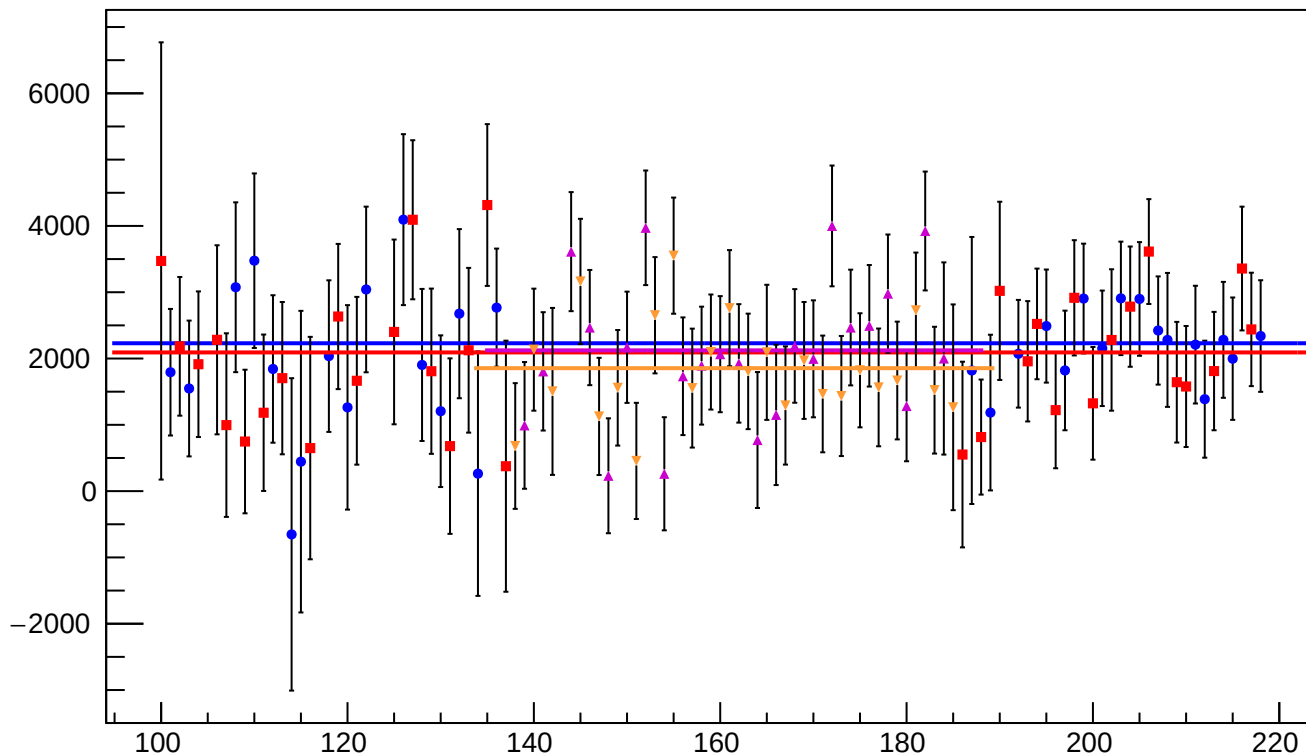


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2230.297+/-182.378

Left Out: 1854.267+/-187.405

Right Out: 2091.877+/-182.759

Left In: 1213.138+/-188.684

χ^2/NDF : 13.8/31

χ^2/NDF : 15.1/23

χ^2/NDF : 26.2/33

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2161.232+/-129.095

In: 2178.538+/-131.134

Out: 1976.054+/-130.842

All: 2077.071+/-92.622

χ^2/NDF : 48.1/46

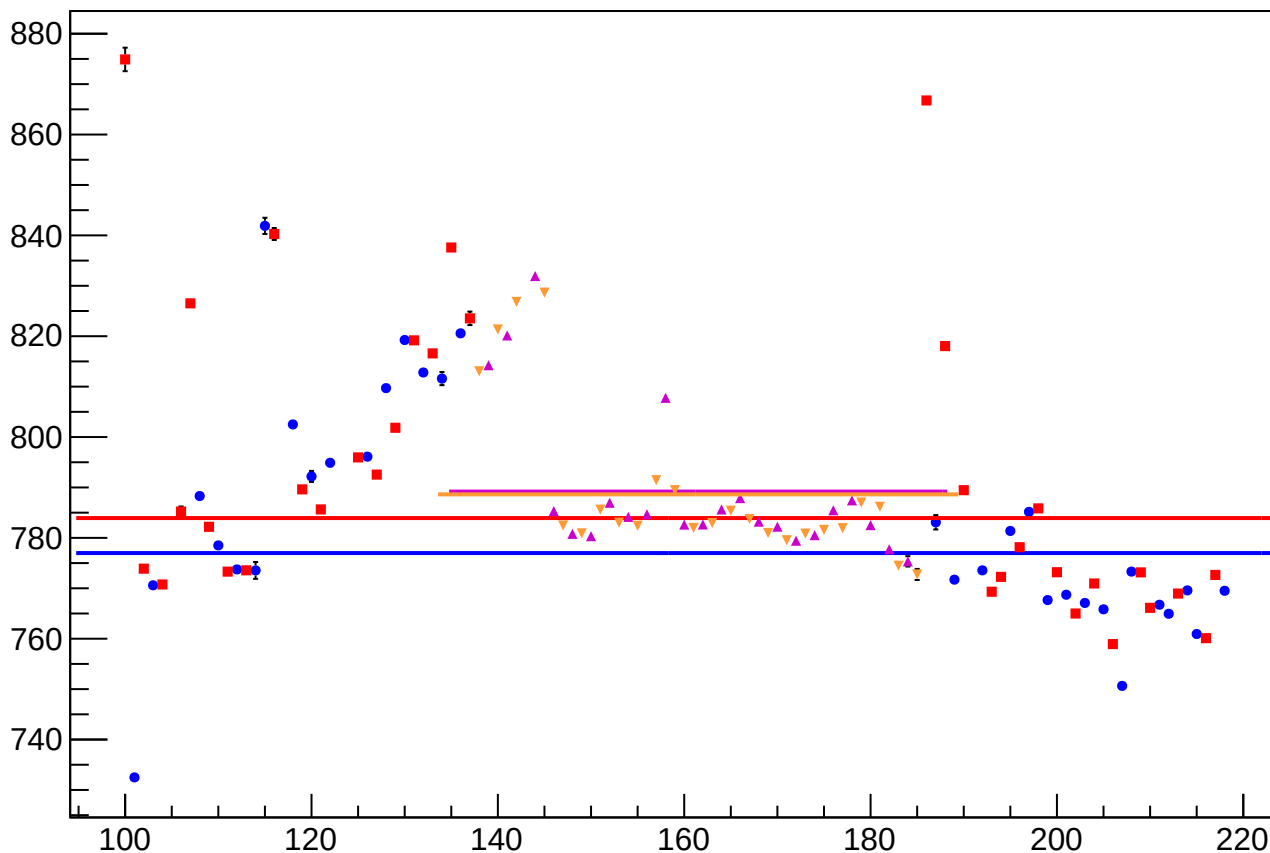
χ^2/NDF : 40.3/65

χ^2/NDF : 46.0/54

χ^2/NDF : 42.1/57

χ^2/NDF : 89.3/112

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 776.987 $\pm$ 0.129 χ^2/NDF : 24706.3/31

Left Out: 788.629 $\pm$ 0.133 χ^2/NDF : 11478.1/23

Right Out: 783.930 $\pm$ 0.129 χ^2/NDF : 32486.4/33

Left In: 789.185 $\pm$ 0.133 χ^2/NDF : 11343.2/22

Left: 788.905 $\pm$ 0.094 χ^2/NDF : 22830.1/46

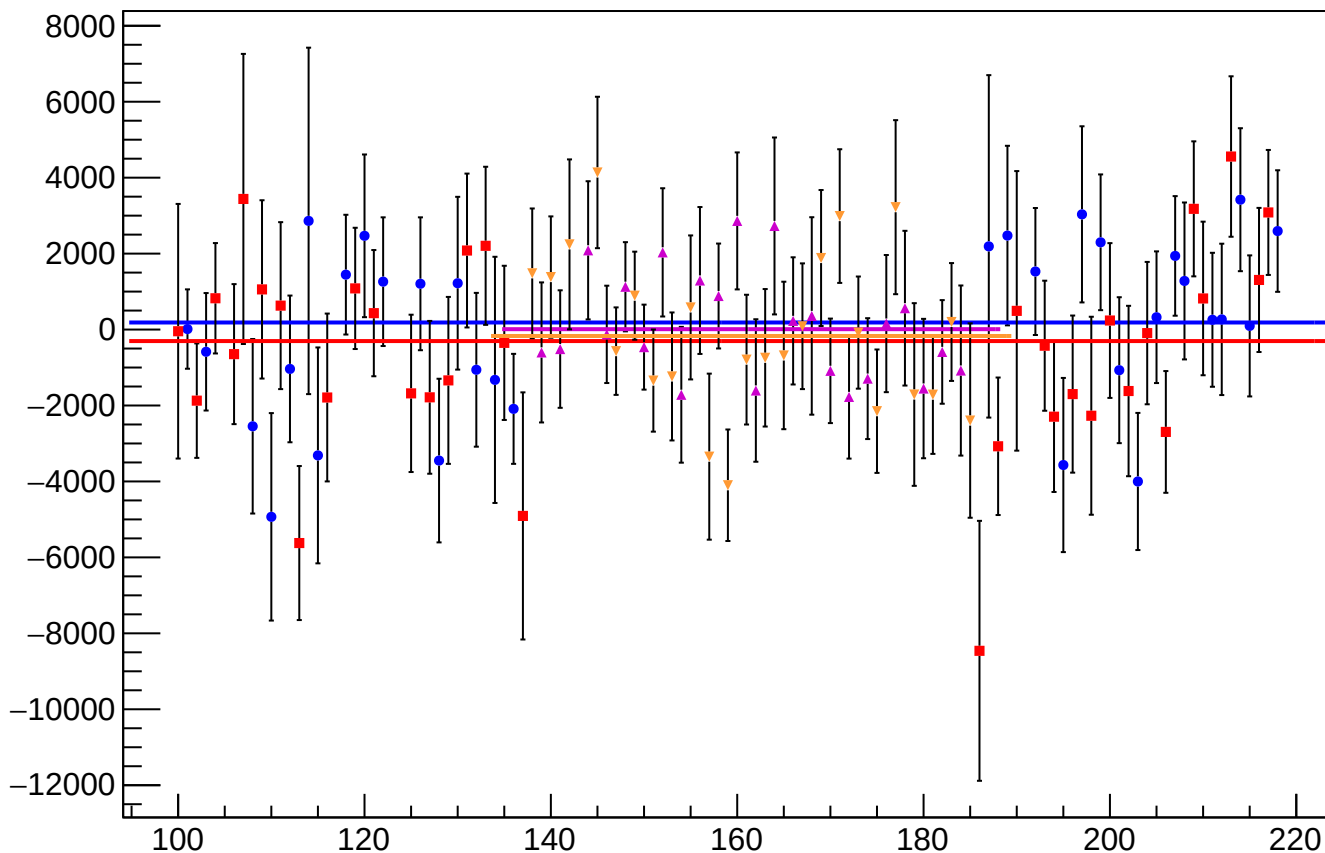
Right: 780.451 $\pm$ 0.091 χ^2/NDF : 58638.9/65

In: 782.879 $\pm$ 0.093 χ^2/NDF : 40370.6/54

Out: 786.221 $\pm$ 0.093 χ^2/NDF : 44609.1/57

All: 784.553 $\pm$ 0.065 χ^2/NDF : 85630.7/112

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: 186.023 $\pm$ 333.824 χ^2 /NDF: 36.0/31

Left Out: -169.172 $\pm$ 340.391 χ^2 /NDF:30.0/23

Right Out: -303.267 $\pm$ 344.231 χ^2 /NDF: 44.7/33

Left In: 10.093 $\pm$ 337.810 χ^2 /NDF:14.2/22

Left: -78.858 $\pm$ 239.775 χ^2 /NDF: 44.4/46

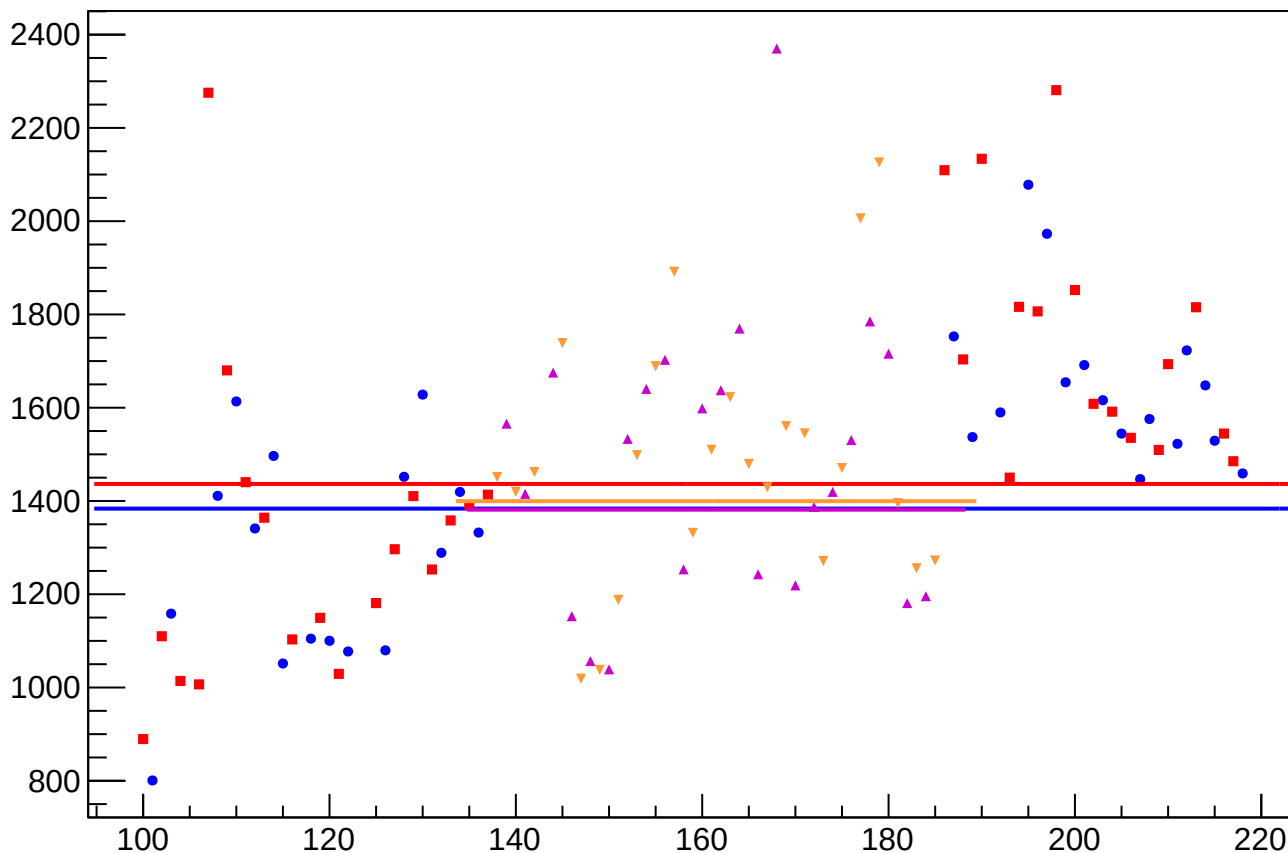
Right: -51.114 $\pm$ 239.644 χ^2 /NDF: 81.7/65

In: 99.102 $\pm$ 237.446 χ^2 /NDF:50.4/54

Out: -235.468 $\pm$ 242.039 χ^2 /NDF:74.8/57

All: -64.978 $\pm$ 169.500 χ^2 /NDF: 126.1/112

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1383.610 $\pm$ 0.236 χ^2 /NDF: 1623371.4/31

Left Out: 1399.587 $\pm$ 0.241 χ^2 /NDF: 1119125.1/23

Right Out: 1436.547 $\pm$ 0.243 χ^2 /NDF: 1600546.4/33

Left In: 1381.359 $\pm$ 0.239 χ^2 /NDF: 1276488.2/22

Left: 1390.403 $\pm$ 0.170 χ^2 /NDF: 2398502.8/46

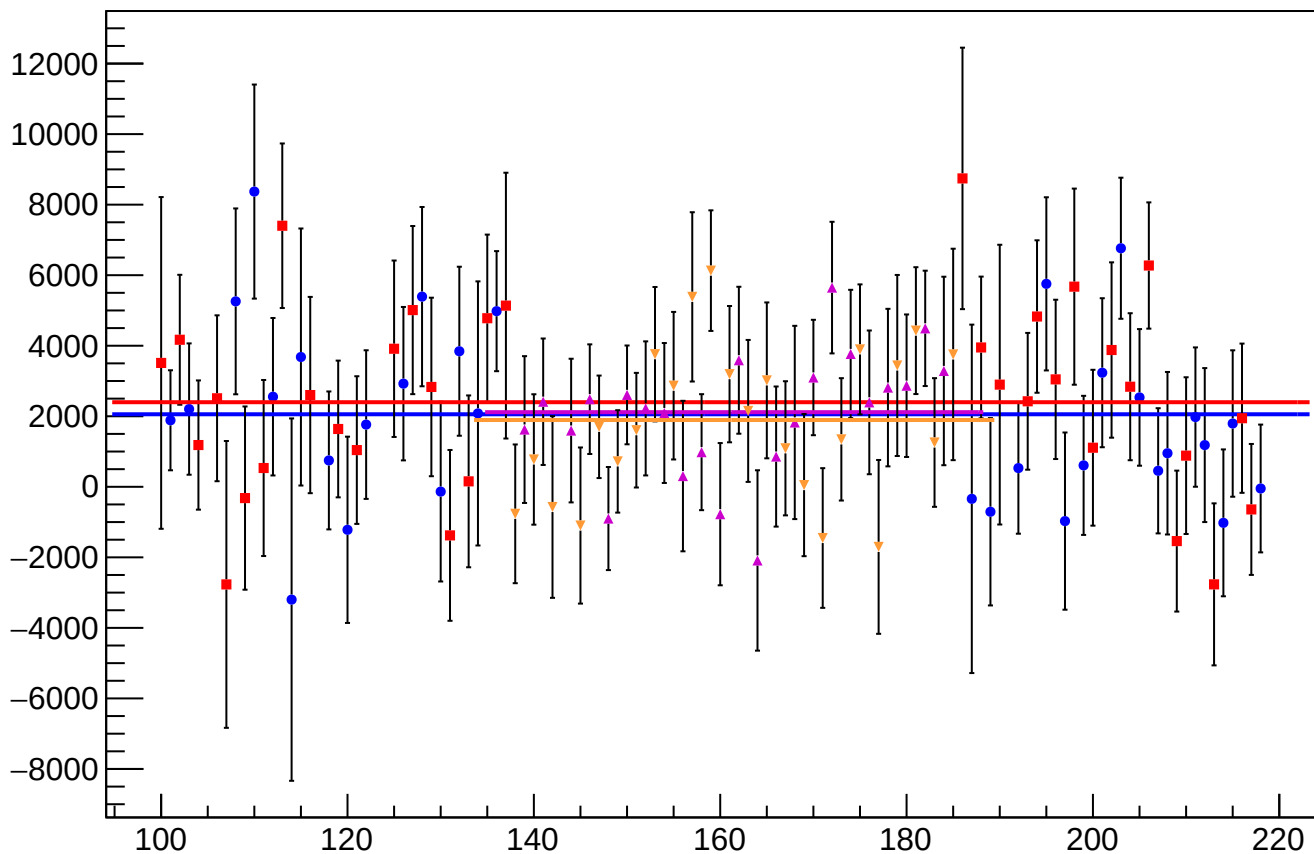
Right: 1409.266 $\pm$ 0.169 χ^2 /NDF: 3248293.1/65

In: 1382.498 $\pm$ 0.168 χ^2 /NDF: 2899904.5/54

Out: 1417.860 $\pm$ 0.171 χ^2 /NDF: 2731329.4/57

All: 1399.840 $\pm$ 0.120 χ^2 /NDF: 5652988.1/111

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2056.554 $\pm$ 388.482 χ^2 /NDF: 32.2/31

Left Out: 1893.469 $\pm$ 394.877 χ^2 /NDF:25.9/23

Right Out: 2398.542 $\pm$ 397.498 χ^2 /NDF: 40.1/33

Left In: 2116.114 $\pm$ 392.997 χ^2 /NDF:18.8/22

Left: 2005.323 $\pm$ 278.553 χ^2 /NDF: 44.9/46

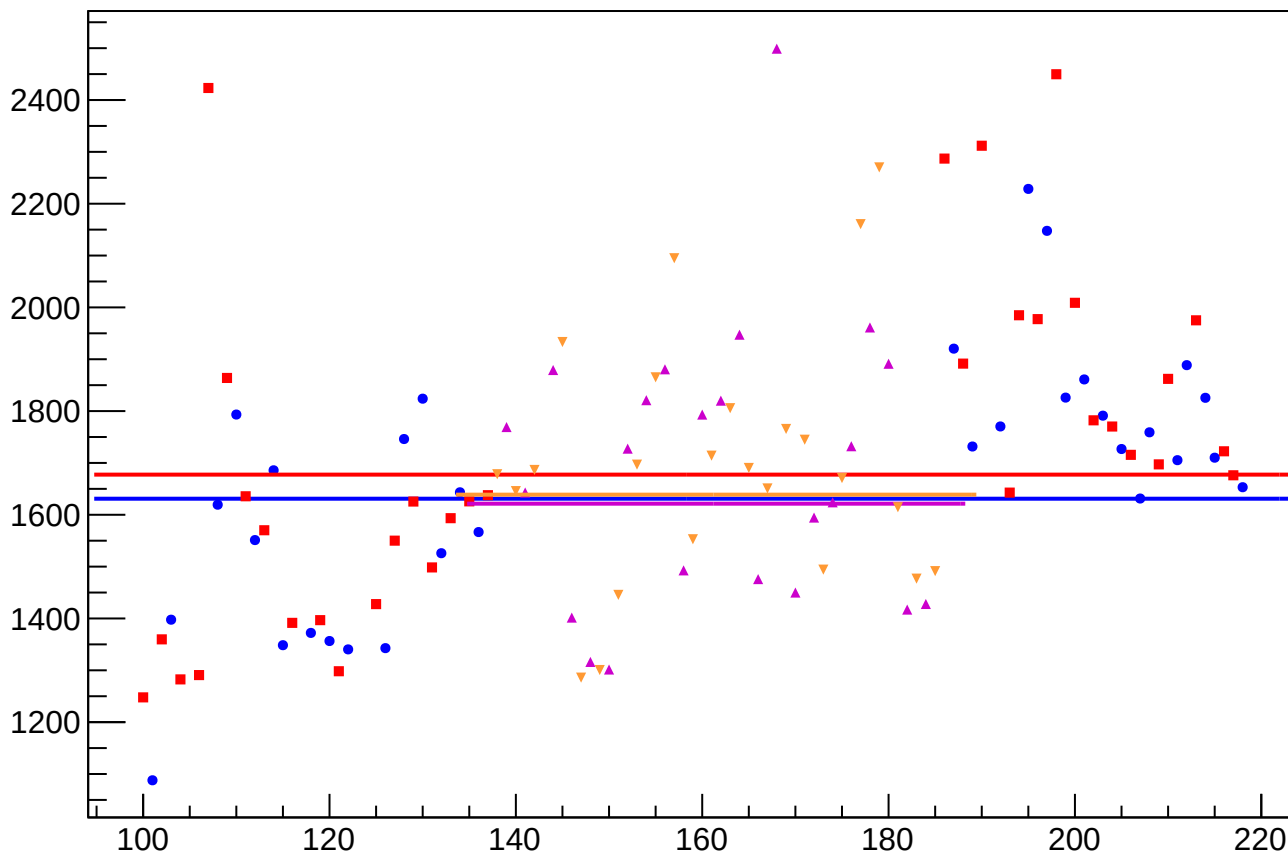
Right: 2223.625 $\pm$ 277.831 χ^2 /NDF: 72.7/65

In: 2085.990 $\pm$ 276.281 χ^2 /NDF:51.0/54

Out: 2144.335 $\pm$ 280.142 χ^2 /NDF:66.9/57

All: 2114.757 $\pm$ 196.711 χ^2 /NDF: 117.9/112

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1630.987 $\pm$ 0.275 χ^2 /NDF: 839971.8/31

Left Out: 1638.806 $\pm$ 0.279 χ^2 /NDF: 671906.6/23

Right Out: 1677.442 $\pm$ 0.281 χ^2 /NDF: 935819.8/33

Left In: 1621.417 $\pm$ 0.278 χ^2 /NDF: 775310.1/22

Left: 1630.070 $\pm$ 0.197 χ^2 /NDF: 1449165.3/46

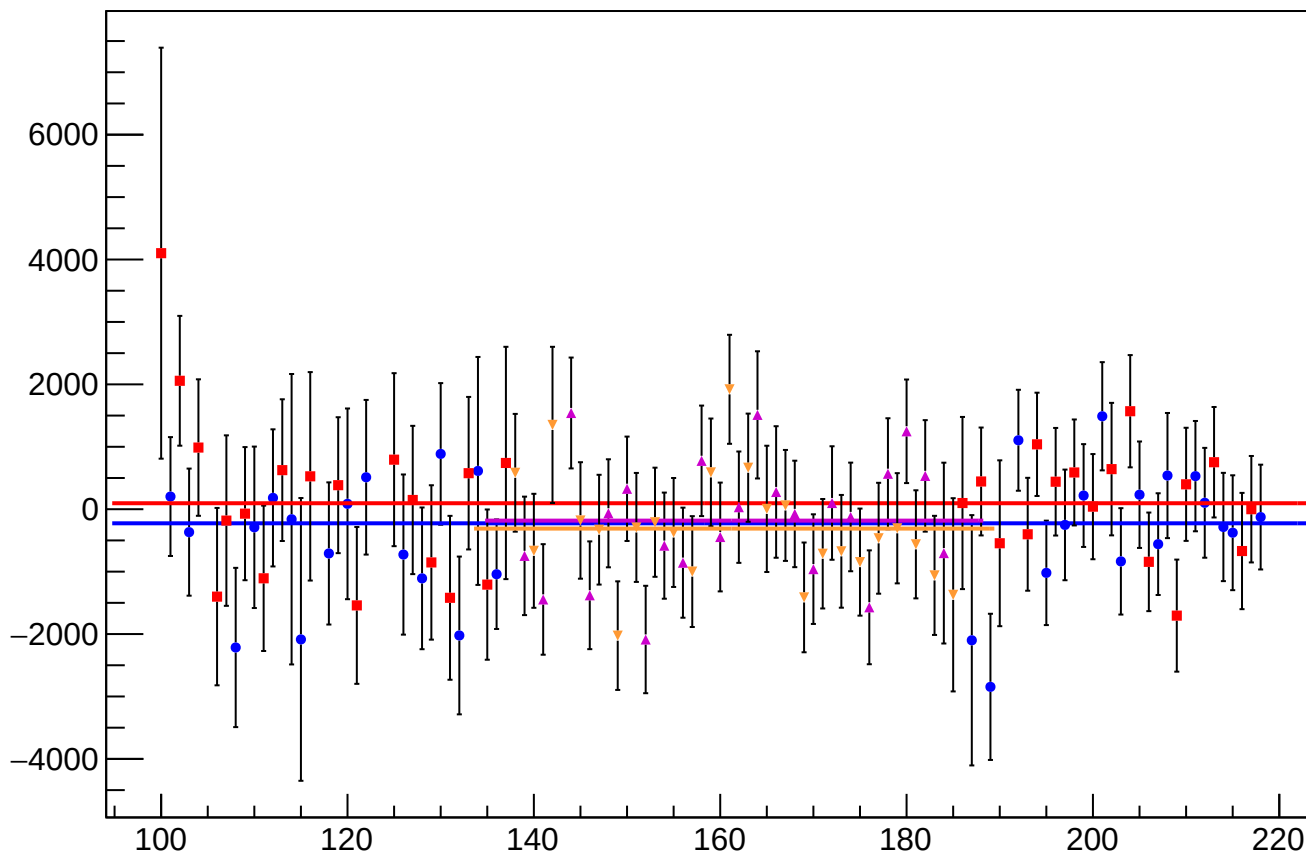
Right: 1653.682 $\pm$ 0.196 χ^2 /NDF: 1789762.7/65

In: 1626.257 $\pm$ 0.195 χ^2 /NDF: 1615881.8/54

Out: 1657.996 $\pm$ 0.198 χ^2 /NDF: 1617236.1/57

All: 1641.907 $\pm$ 0.139 χ^2 /NDF: 3246131.8/11

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -225.757 $\pm$ 181.078 χ^2 /NDF: 25.0/31

Left Out: -310.563 $\pm$ 186.538 χ^2 /NDF:20.0/23

Right Out: 95.681 $\pm$ 181.139 χ^2 /NDF: 25.9/33

Left In: -182.895 $\pm$ 187.817 χ^2 /NDF:26.1/22

Left: -247.165 $\pm$ 132.352 χ^2 /NDF: 46.4/46

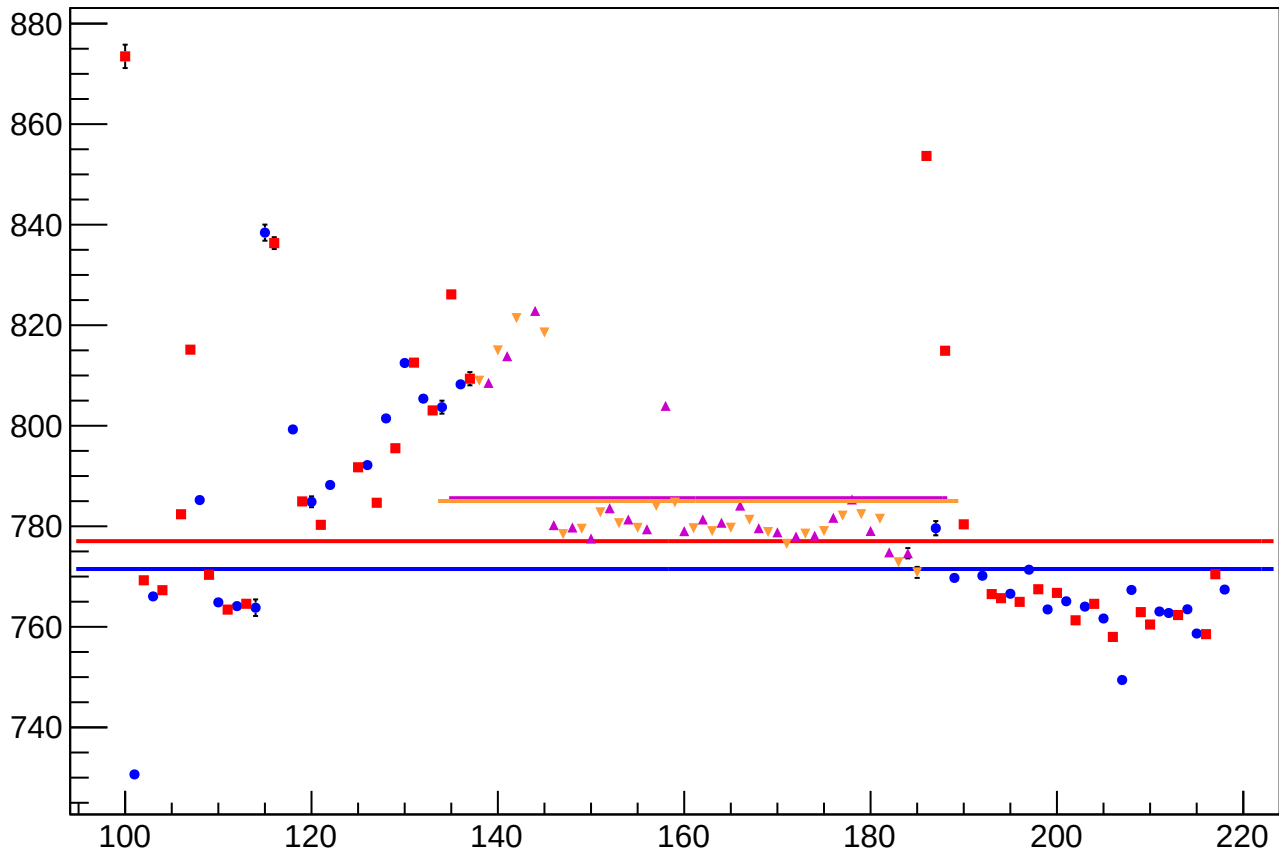
Right: -65.092 $\pm$ 128.063 χ^2 /NDF: 52.5/65

In: -205.109 $\pm$ 130.359 χ^2 /NDF:51.2/54

Out: -101.478 $\pm$ 129.952 χ^2 /NDF:48.3/57

All: -153.131 $\pm$ 92.033 χ^2 /NDF: 99.8/112

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 771.503 $\pm$ 0.128 χ^2 /NDF: 21000.5/31

Left Out: 785.031 $\pm$ 0.132 χ^2 /NDF:9367.9/23

Right Out: 777.045 $\pm$ 0.128 χ^2 /NDF: 30095.1/33

Left In: 785.592 $\pm$ 0.133 χ^2 /NDF:9373.7/22

Left: 785.309 $\pm$ 0.094 χ^2 /NDF: 18750.6/46

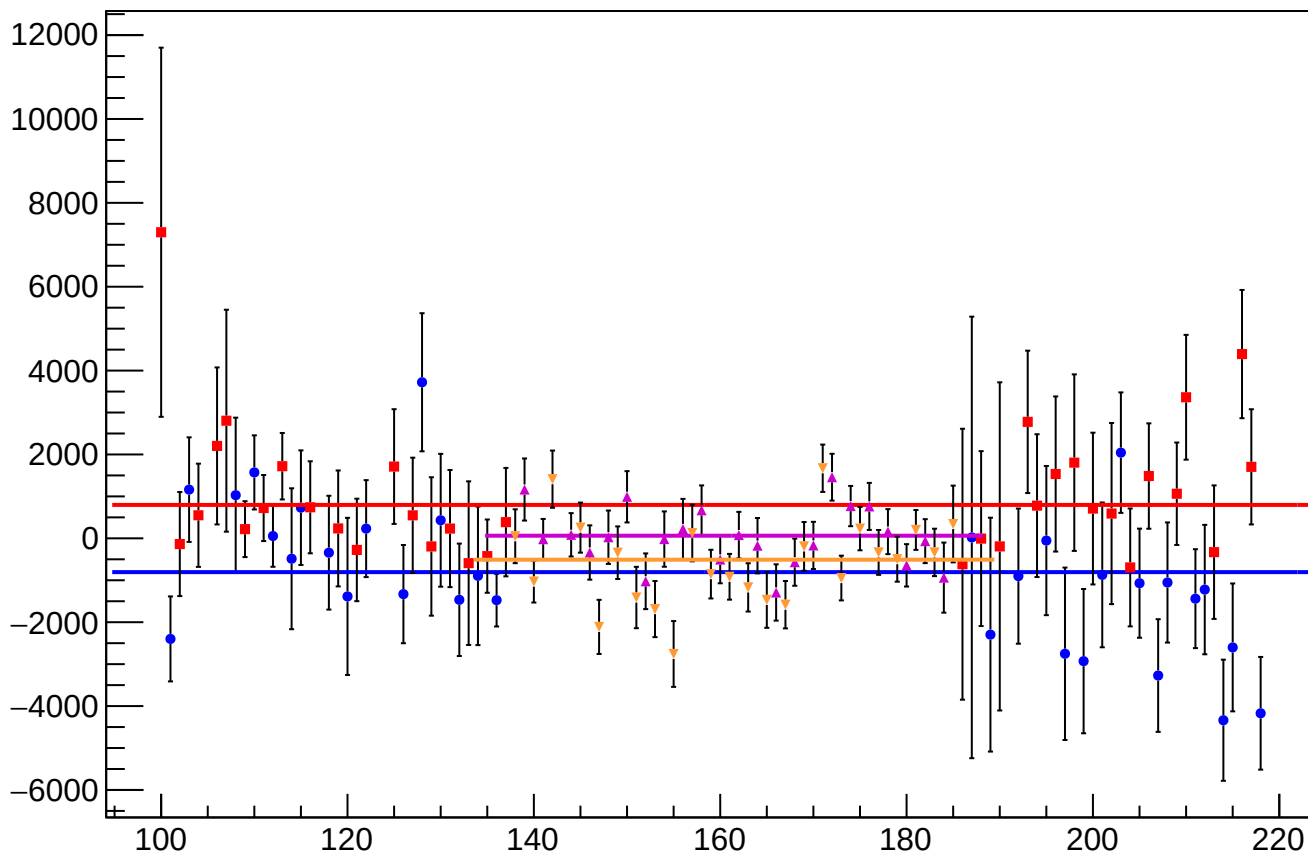
Right: 774.273 $\pm$ 0.091 χ^2 /NDF: 52031.9/65

In: 778.290 $\pm$ 0.092 χ^2 /NDF:36206.7/54

Out: 780.921 $\pm$ 0.092 χ^2 /NDF:41349.5/57

All: 779.610 $\pm$ 0.065 χ^2 /NDF: 77964.6/112

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -805.675 ± 229.628 $\chi^2/\text{NDF}: 50.9/31$

Left Out: -509.311 ± 121.190 $\chi^2/\text{NDF}: 60.5/23$

Right Out: 796.987 ± 228.690 $\chi^2/\text{NDF}: 23.6/33$

Left In: 62.768 ± 122.045 $\chi^2/\text{NDF}: 28.8/22$

Left: -225.283 ± 85.995 $\chi^2/\text{NDF}: 100.4/46$

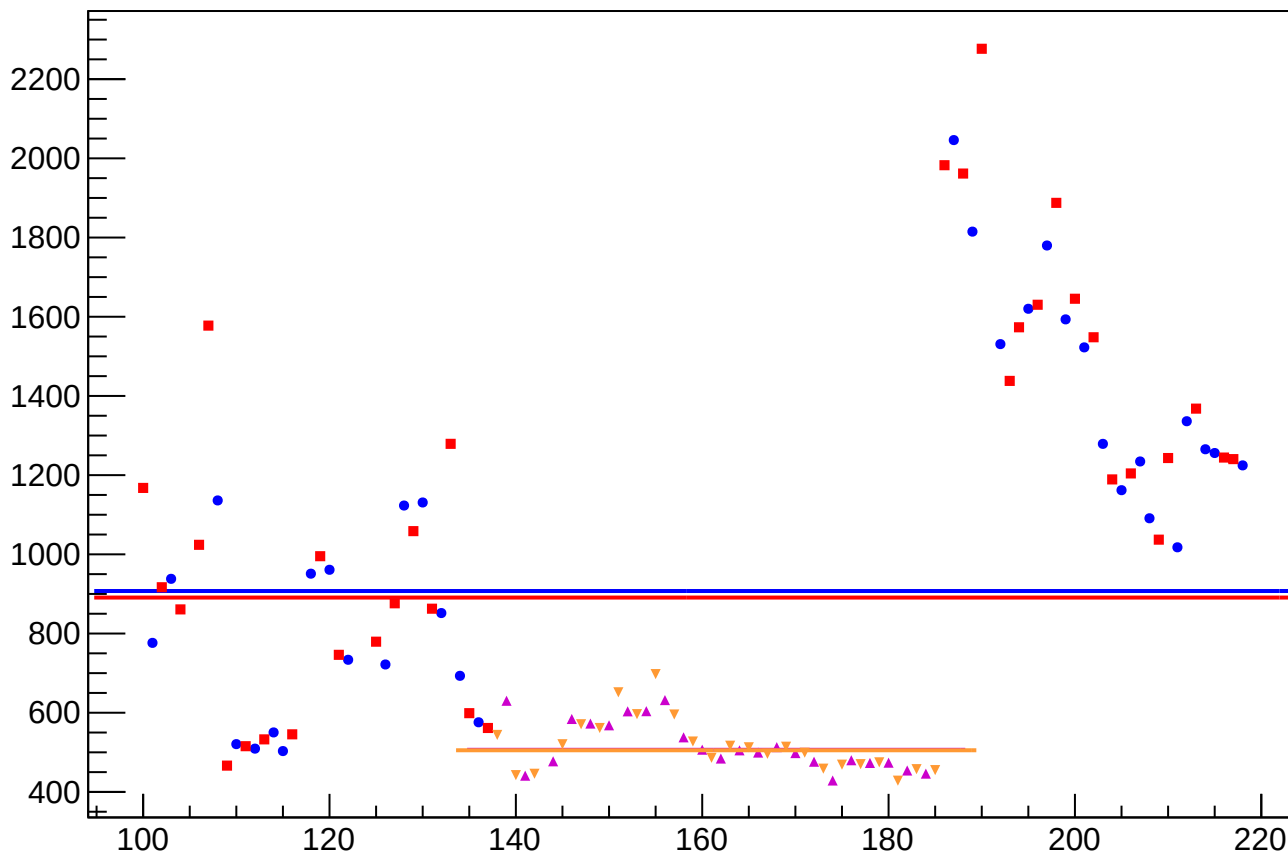
Right: -1.062 ± 162.039 $\chi^2/\text{NDF}: 99.0/65$

In: -128.518 ± 107.769 $\chi^2/\text{NDF}: 90.9/54$

Out: -222.898 ± 107.083 $\chi^2/\text{NDF}: 109.6/57$

All: -176.009 ± 75.961 $\chi^2/\text{NDF}: 200.9/112$

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 907.392+/-0.162 χ^2/NDF : 4801022.2/31

Left Out: 505.220+/-0.086 χ^2/NDF : 485593.0/23

Right Out: 890.855+/-0.162 χ^2/NDF : 6142585.7/33

Left In: 506.380+/-0.086 χ^2/NDF : 436294.4/22

Left: 505.796+/-0.061 χ^2/NDF : 921978.4/46

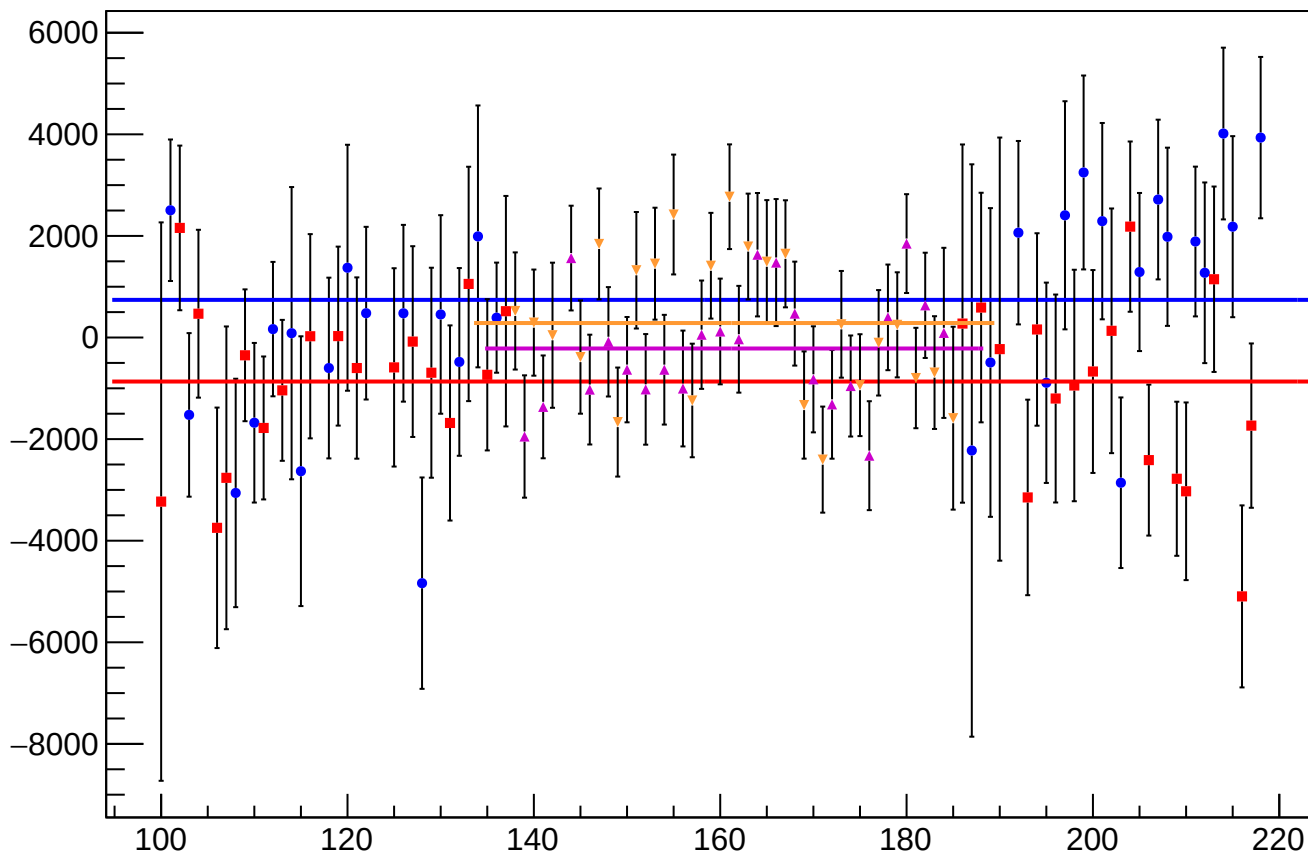
Right: 899.089+/-0.115 χ^2/NDF : 10948815.3/65

In: 594.708+/-0.076 χ^2/NDF : 9993311.5/54

Out: 589.773+/-0.076 χ^2/NDF : 11068333.6/57

All: 592.225+/-0.054 χ^2/NDF : 21063755.7/111

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 741.217+/-315.174 χ^2/NDF : 39.9/31

Left Out: 285.144+/-224.378 χ^2/NDF :38.3/23

Right Out: -866.479+/-320.103 χ^2/NDF : 25.8/33

Left In: -216.121+/-225.600 χ^2/NDF :24.4/22

Left: 35.874+/-159.089 χ^2/NDF : 65.2/46

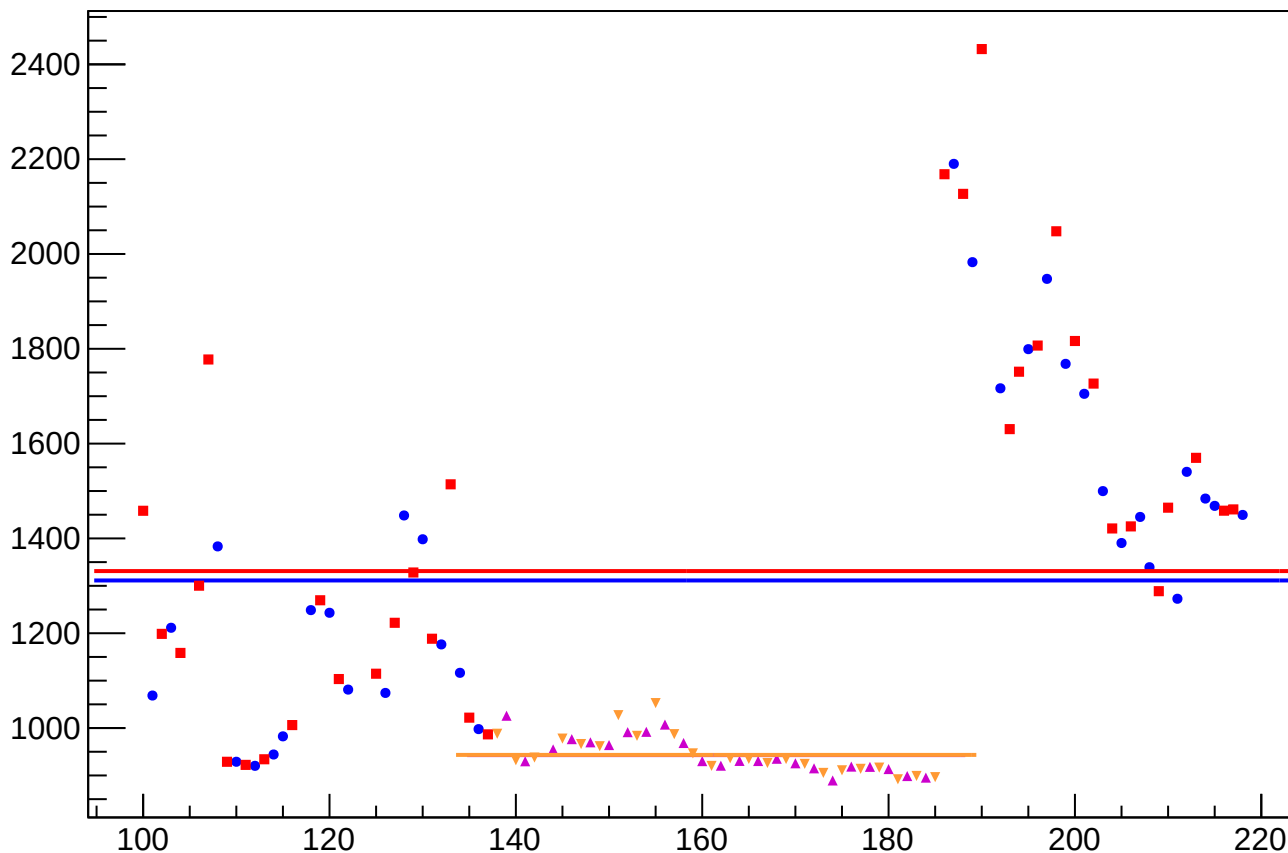
Right: -50.158+/-224.584 χ^2/NDF : 78.4/65

In: 108.210+/-183.447 χ^2/NDF :70.4/54

Out: -94.271+/-183.735 χ^2/NDF :72.7/57

All: 7.128+/-129.818 χ^2/NDF : 143.7/112

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1311.327+/-0.223 χ^2/NDF : 1566237.7/31

Left Out: 943.351+/-0.159 χ^2/NDF : 60365.2/23

Right Out: 1331.119+/-0.226 χ^2/NDF : 2090771.2/33

Left In: 942.927+/-0.160 χ^2/NDF : 48402.9/22

Left: 943.140+/-0.112 χ^2/NDF : 108771.7/46

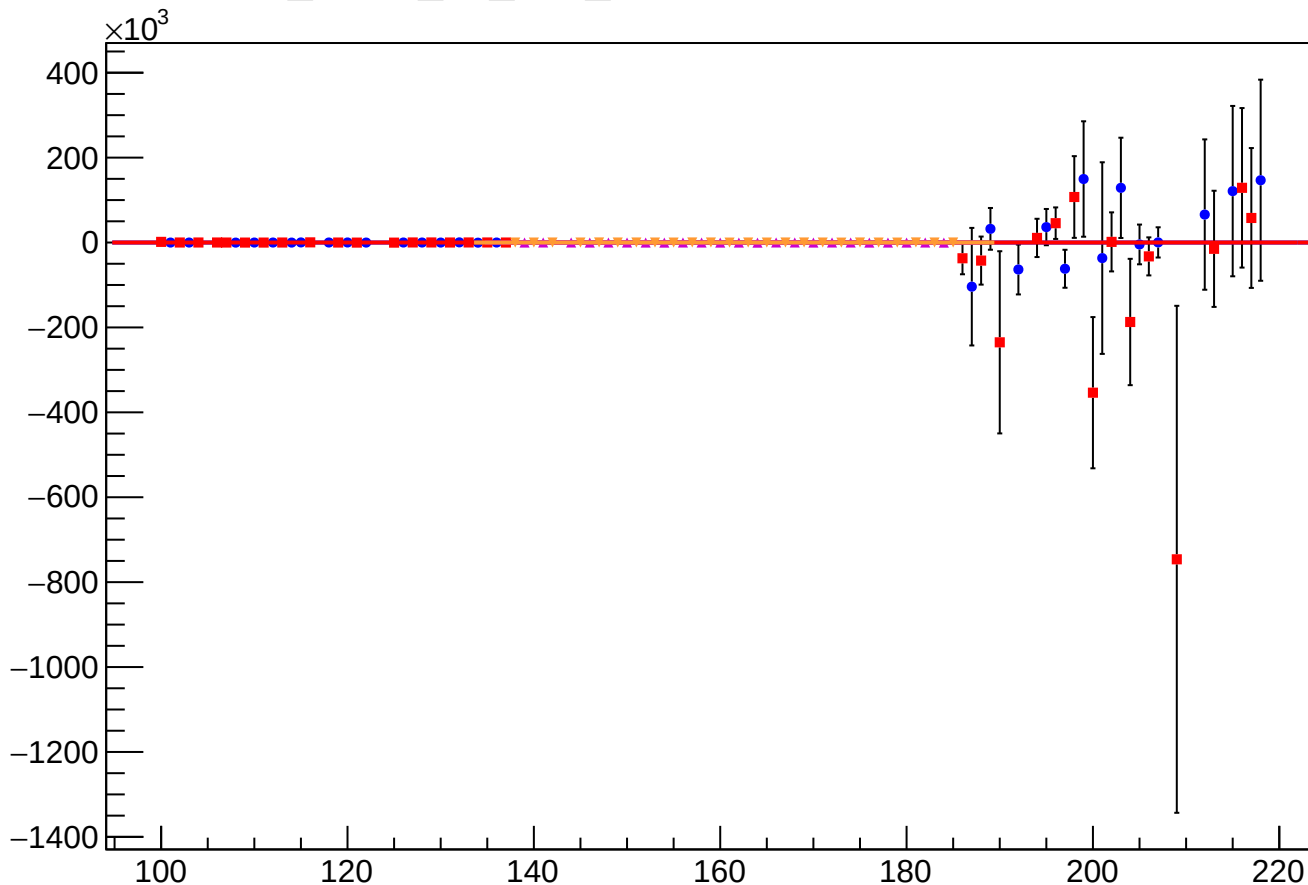
Right: 1321.070+/-0.159 χ^2/NDF : 3660891.2/65

In: 1067.735+/-0.130 χ^2/NDF : 3421460.6/54

Out: 1071.105+/-0.130 χ^2/NDF : 4119118.4/57

All: 1069.417+/-0.092 χ^2/NDF : 7540916.1/11

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.550+/-30.032 χ^2/NDF : 24.1/28

Left Out: 3.710+/-21.467 χ^2/NDF :22.4/23

Right Out: 31.729+/-30.492 χ^2/NDF : 30.6/31

Left In: -22.931+/-21.584 χ^2/NDF :22.5/22

Left: -9.538+/-15.221 χ^2/NDF : 45.7/46

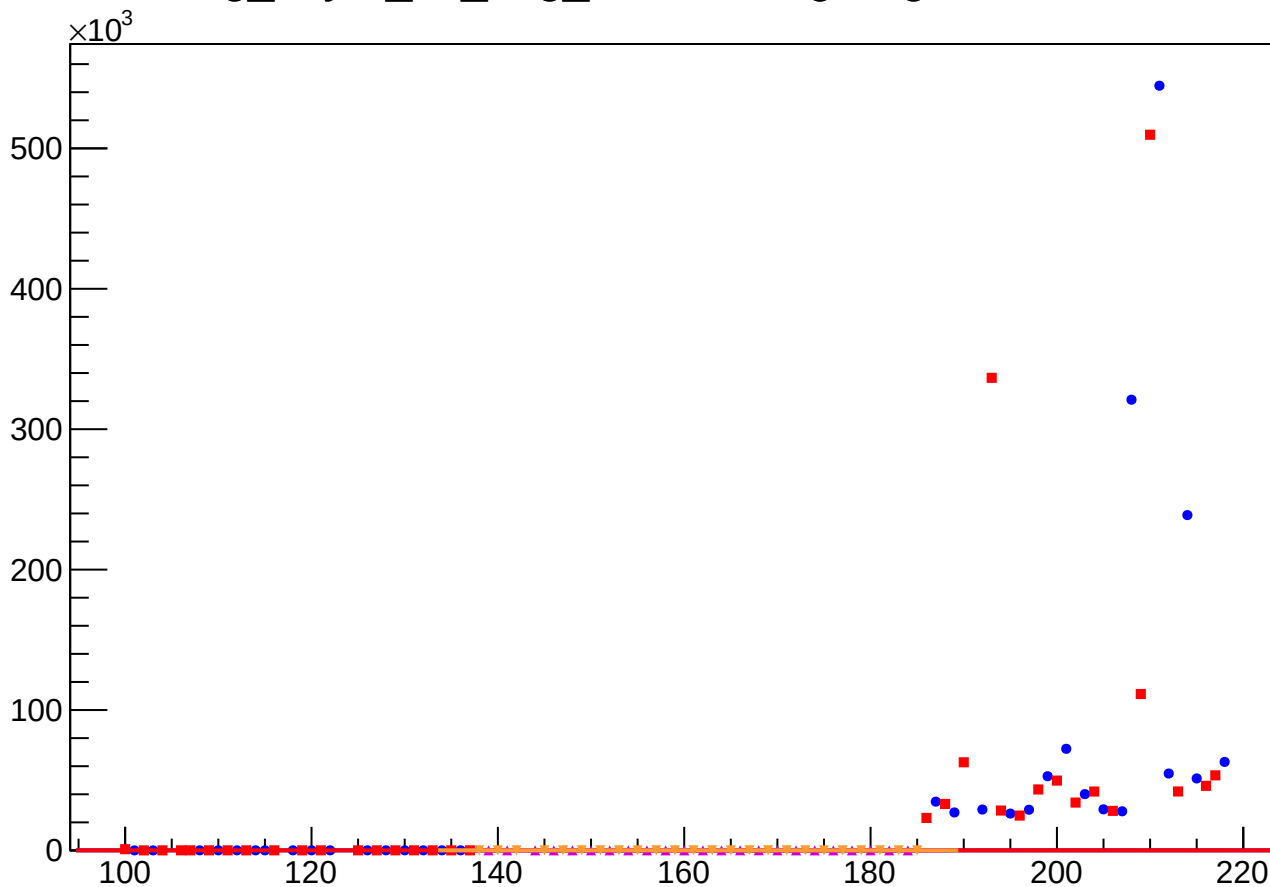
Right: 7.731+/-21.397 χ^2/NDF : 55.9/60

In: -20.417+/-17.527 χ^2/NDF :46.6/51

Out: 12.996+/-17.553 χ^2/NDF :53.6/55

All: -3.736+/-12.403 χ^2/NDF : 102.0/107

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.143 $\pm$ 0.021 χ^2 /NDF: 6919236.5/31

Left Out: 89.692 $\pm$ 0.015 χ^2 /NDF: 466281.5/23

Right Out: 79.461 $\pm$ 0.022 χ^2 /NDF: 6545668.4/33

Left In: 89.596 $\pm$ 0.015 χ^2 /NDF: 508511.1/22

Left: 89.644 $\pm$ 0.011 χ^2 /NDF: 974812.8/46

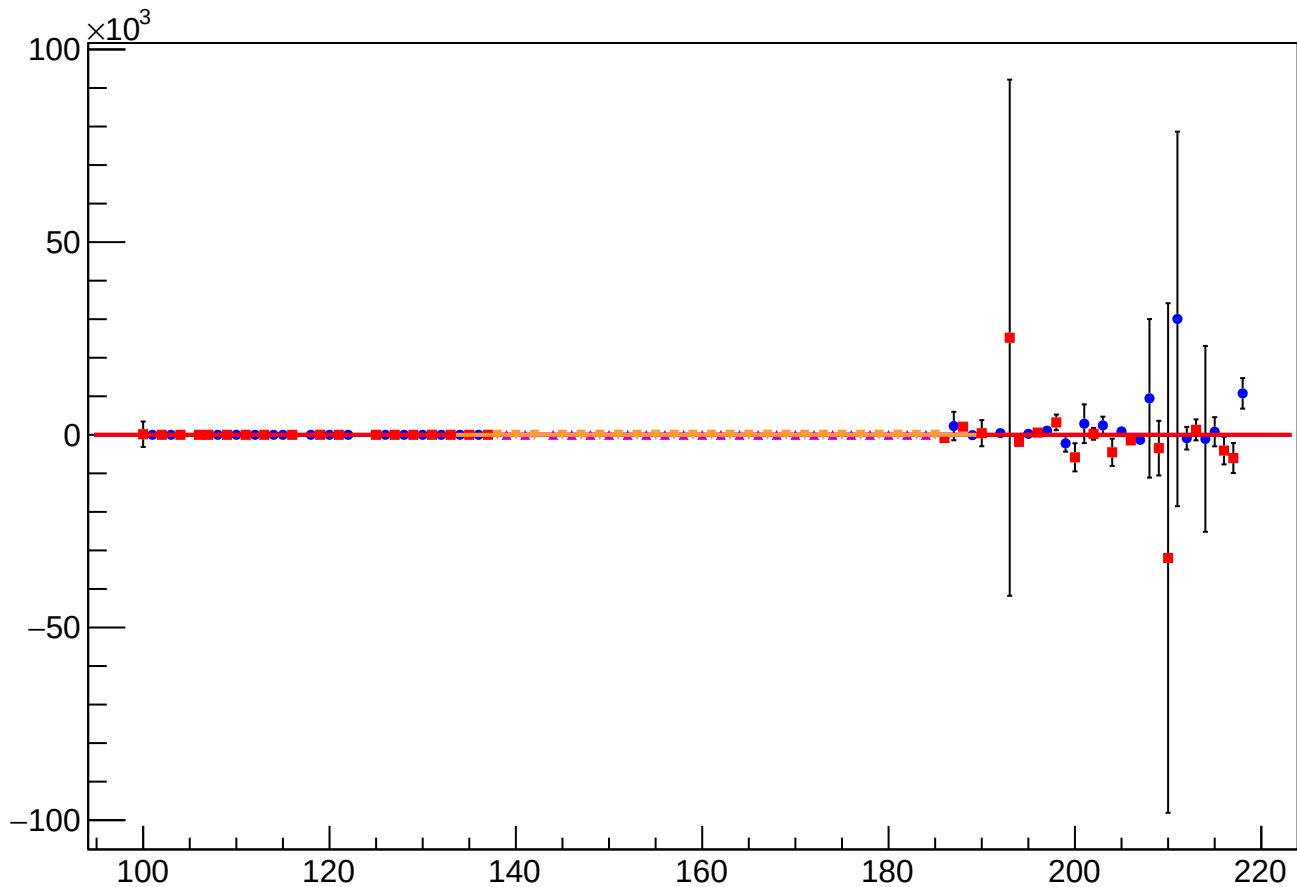
Right: 77.777 $\pm$ 0.015 χ^2 /NDF: 13476925.9/65

In: 85.014 $\pm$ 0.012 χ^2 /NDF: 7692354.3/54

Out: 86.302 $\pm$ 0.012 χ^2 /NDF: 7162496.2/57

All: 85.657 $\pm$ 0.009 χ^2 /NDF: 14860242.3/112

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289 ± 0.502 χ^2/NDF : 39.0/31

Left Out: 0.126 ± 0.377 χ^2/NDF : 21.3/23

Right Out: 0.038 ± 0.525 χ^2/NDF : 33.4/33

Left In: -0.519 ± 0.387 χ^2/NDF : 26.3/22

Left: -0.188 ± 0.270 χ^2/NDF : 49.1/46

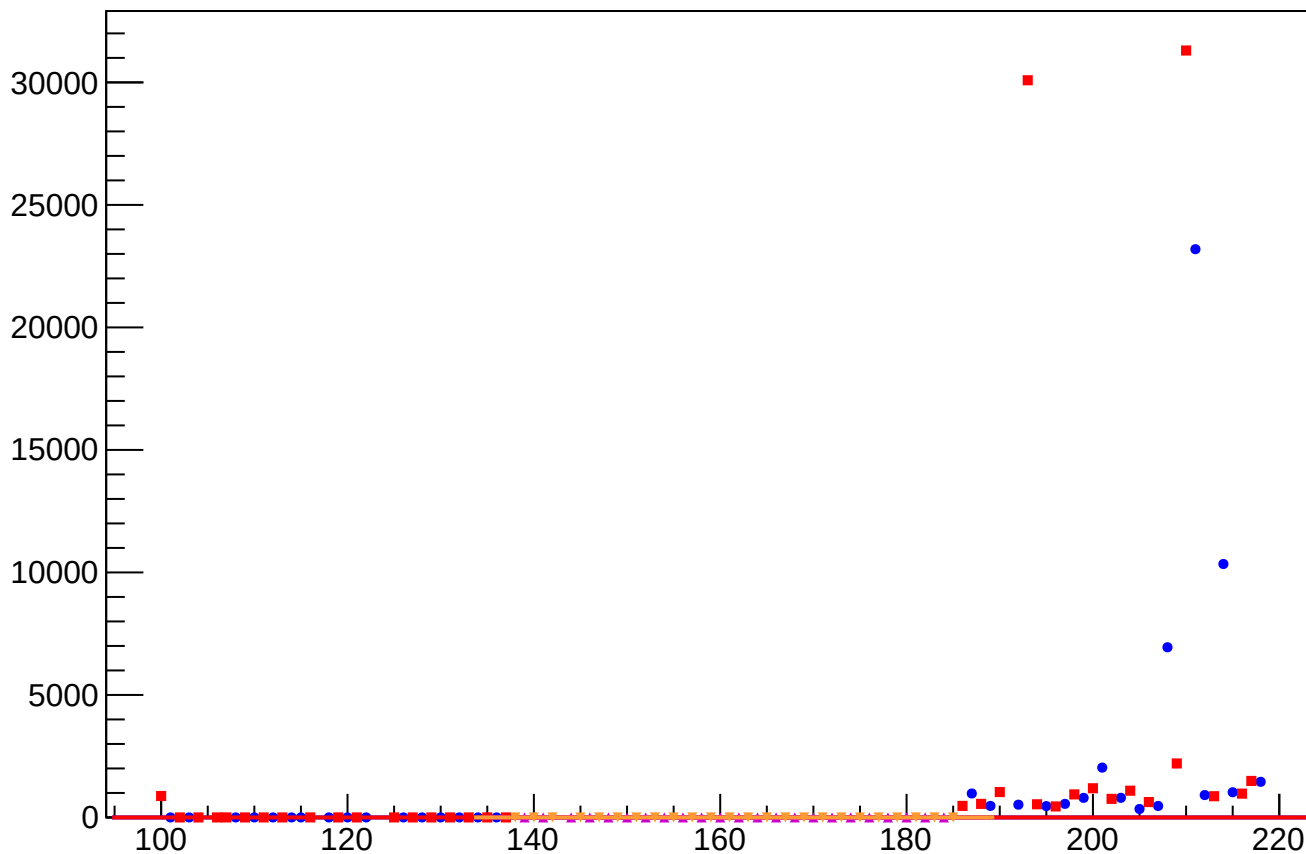
Right: -0.133 ± 0.363 χ^2/NDF : 72.6/65

In: -0.433 ± 0.306 χ^2/NDF : 65.4/54

Out: 0.096 ± 0.306 χ^2/NDF : 54.7/57

All: -0.168 ± 0.217 χ^2/NDF : 121.7/112

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 6988558.8/31

Left Out: 1.408+/-0.000 χ^2/NDF : 987553.0/23

Right Out: 1.260+/-0.000 χ^2/NDF : 7253453.9/33

Left In: 1.453+/-0.000 χ^2/NDF : 995852.2/22

Left: 1.430+/-0.000 χ^2/NDF : 1997169.8/46

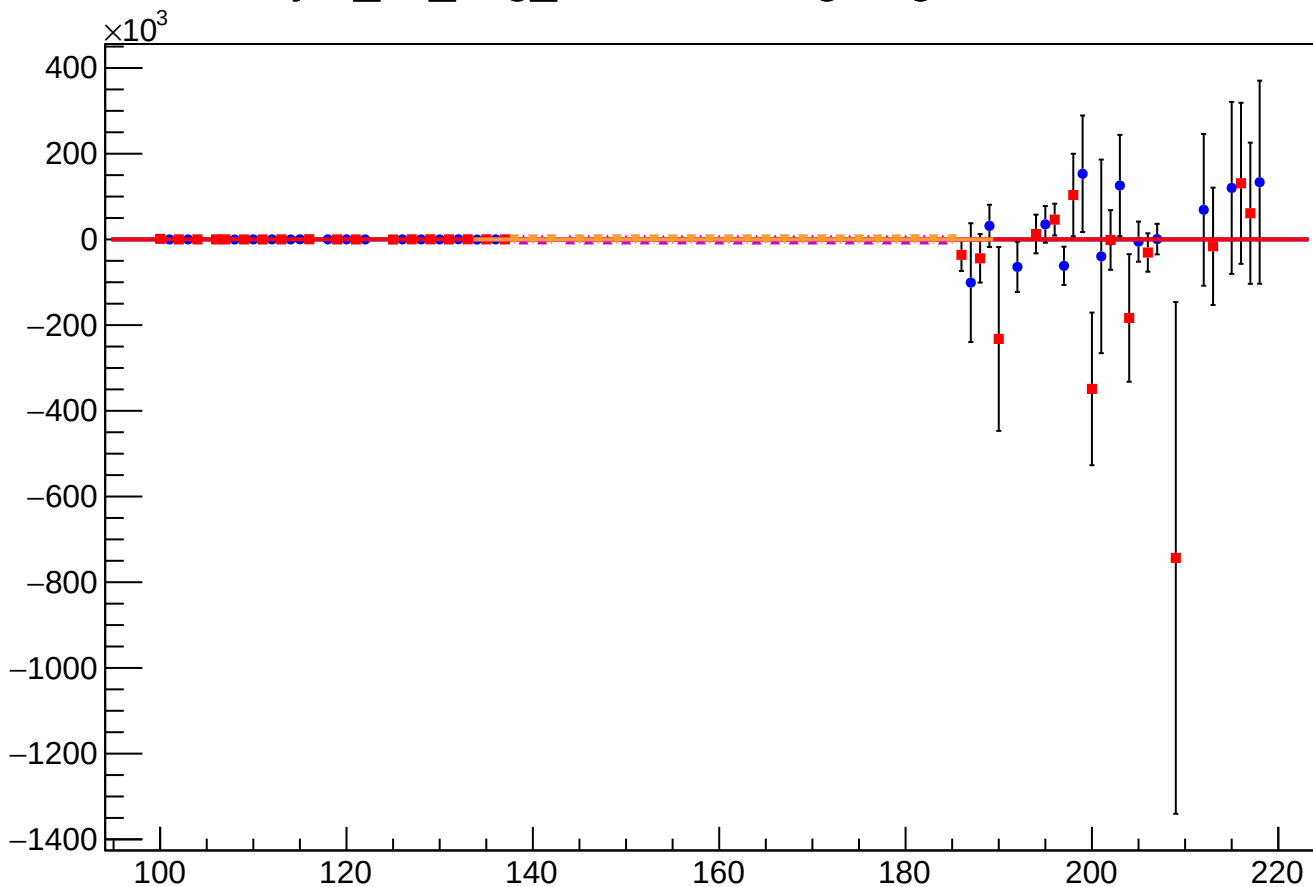
Right: 1.204+/-0.000 χ^2/NDF : 14285401.9/65

In: 1.341+/-0.000 χ^2/NDF : 8432485.3/54

Out: 1.358+/-0.000 χ^2/NDF : 8346006.6/57

All: 1.350+/-0.000 χ^2/NDF : 16781456.9/112

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.487 ± 30.040 χ^2/NDF : 24.2/28

Left Out: 3.497 ± 21.474 χ^2/NDF : 22.1/23

Right Out: 32.010 ± 30.500 χ^2/NDF : 30.3/31

Left In: -22.446 ± 21.591 χ^2/NDF : 22.3/22

Left: -9.404 ± 15.226 χ^2/NDF : 45.2/46

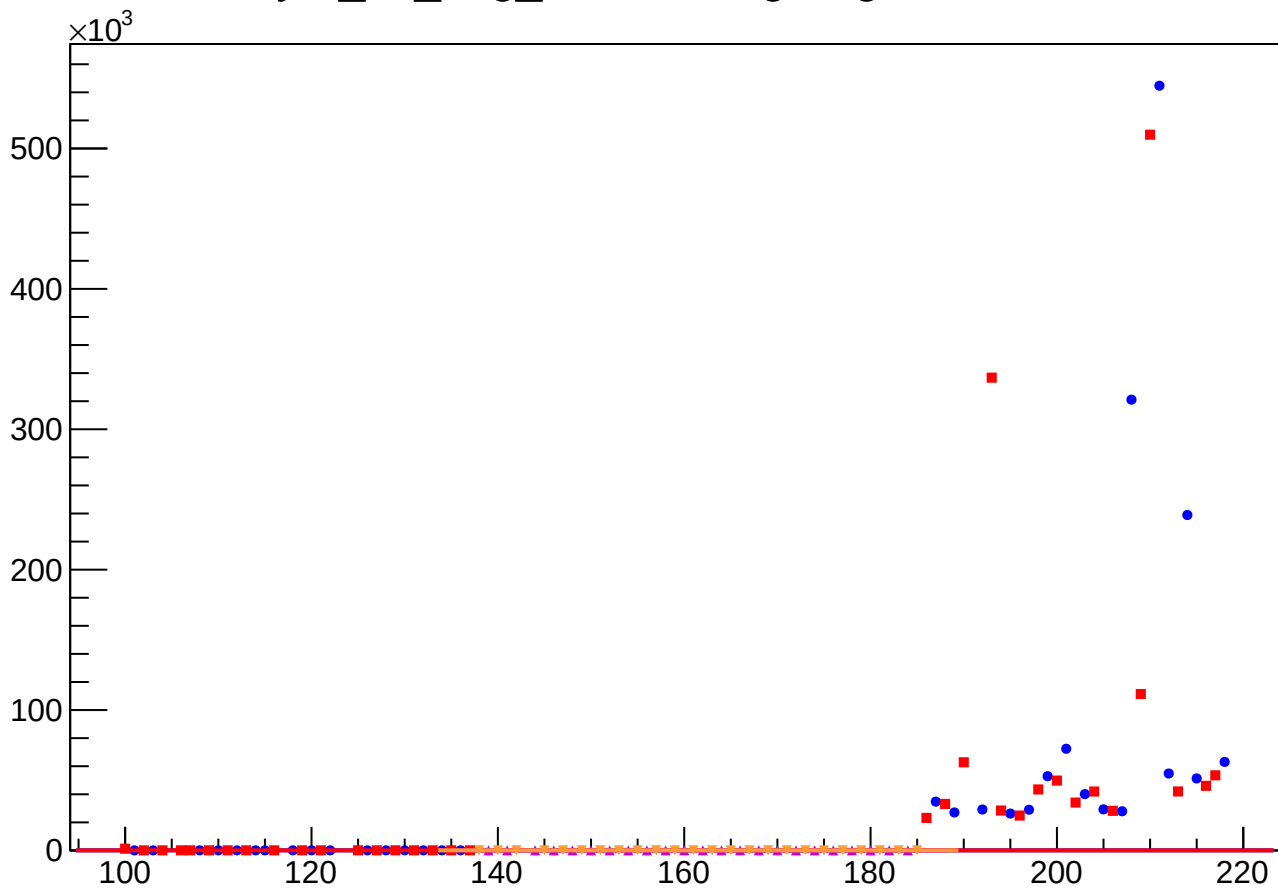
Right: 8.408 ± 21.402 χ^2/NDF : 55.6/60

In: -19.735 ± 17.532 χ^2/NDF : 46.6/51

Out: 12.947 ± 17.559 χ^2/NDF : 52.9/55

All: -3.419 ± 12.407 χ^2/NDF : 101.3/107

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.163 $\pm$ 0.021 χ^2 /NDF: 6919369.9/31

Left Out: 89.719 $\pm$ 0.015 χ^2 /NDF: 467023.5/23

Right Out: 79.464 $\pm$ 0.022 χ^2 /NDF: 6552292.3/33

Left In: 89.622 $\pm$ 0.015 χ^2 /NDF: 509391.8/22

Left: 89.671 $\pm$ 0.011 χ^2 /NDF: 976435.5/46

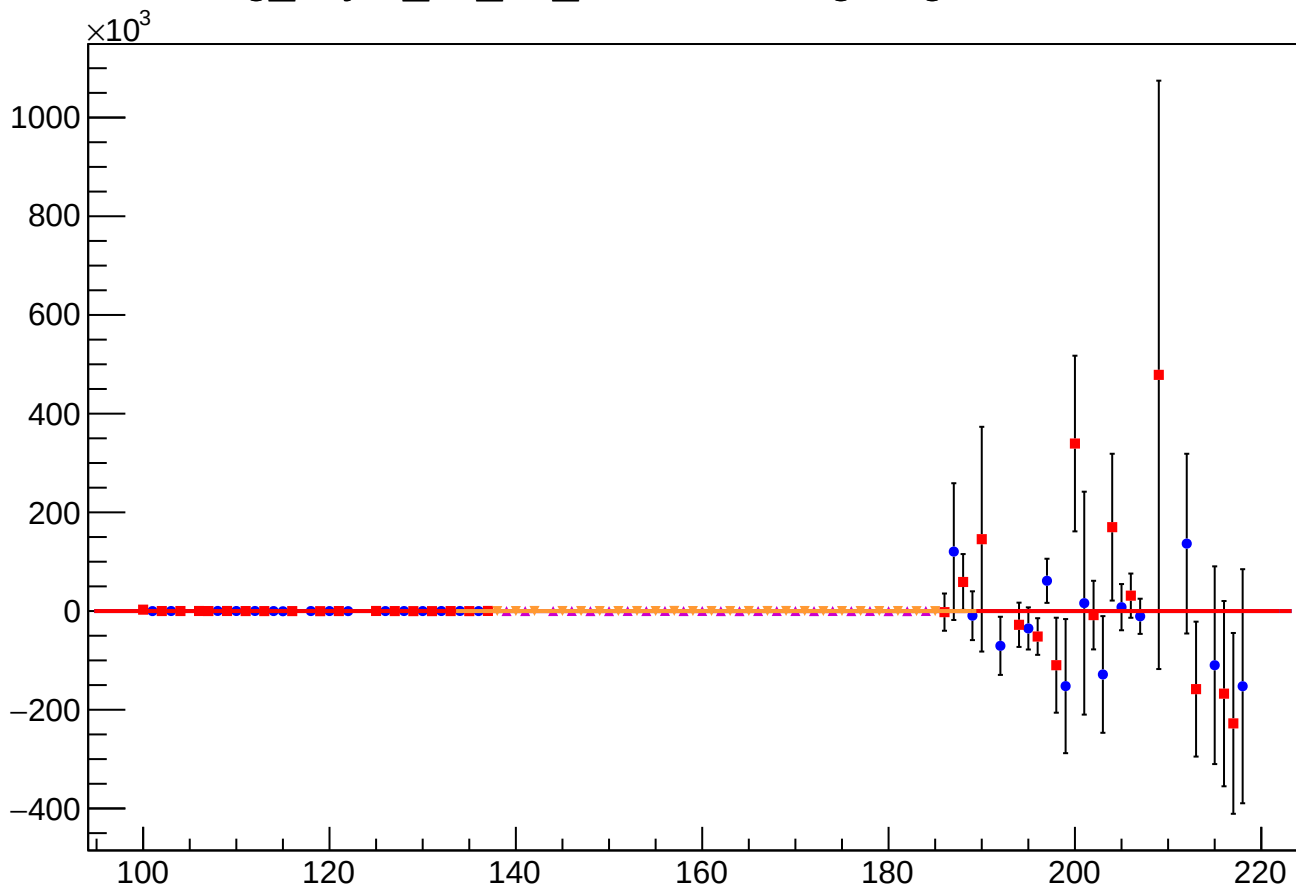
Right: 77.789 $\pm$ 0.015 χ^2 /NDF: 13483558.0/65

In: 85.038 $\pm$ 0.012 χ^2 /NDF: 7693490.4/54

Out: 86.320 $\pm$ 0.012 χ^2 /NDF: 7170463.1/57

All: 85.678 $\pm$ 0.009 χ^2 /NDF: 14869299.4/112

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.087 ± 30.012 $\chi^2/\text{NDF}: 22.6/28$

Left Out: 15.274 ± 21.472 $\chi^2/\text{NDF}: 17.2/23$

Right Out: -25.802 ± 30.473 $\chi^2/\text{NDF}: 27.7/31$

Left In: 43.424 ± 21.593 $\chi^2/\text{NDF}: 31.4/22$

Left: 29.270 ± 15.226 $\chi^2/\text{NDF}: 49.5/46$

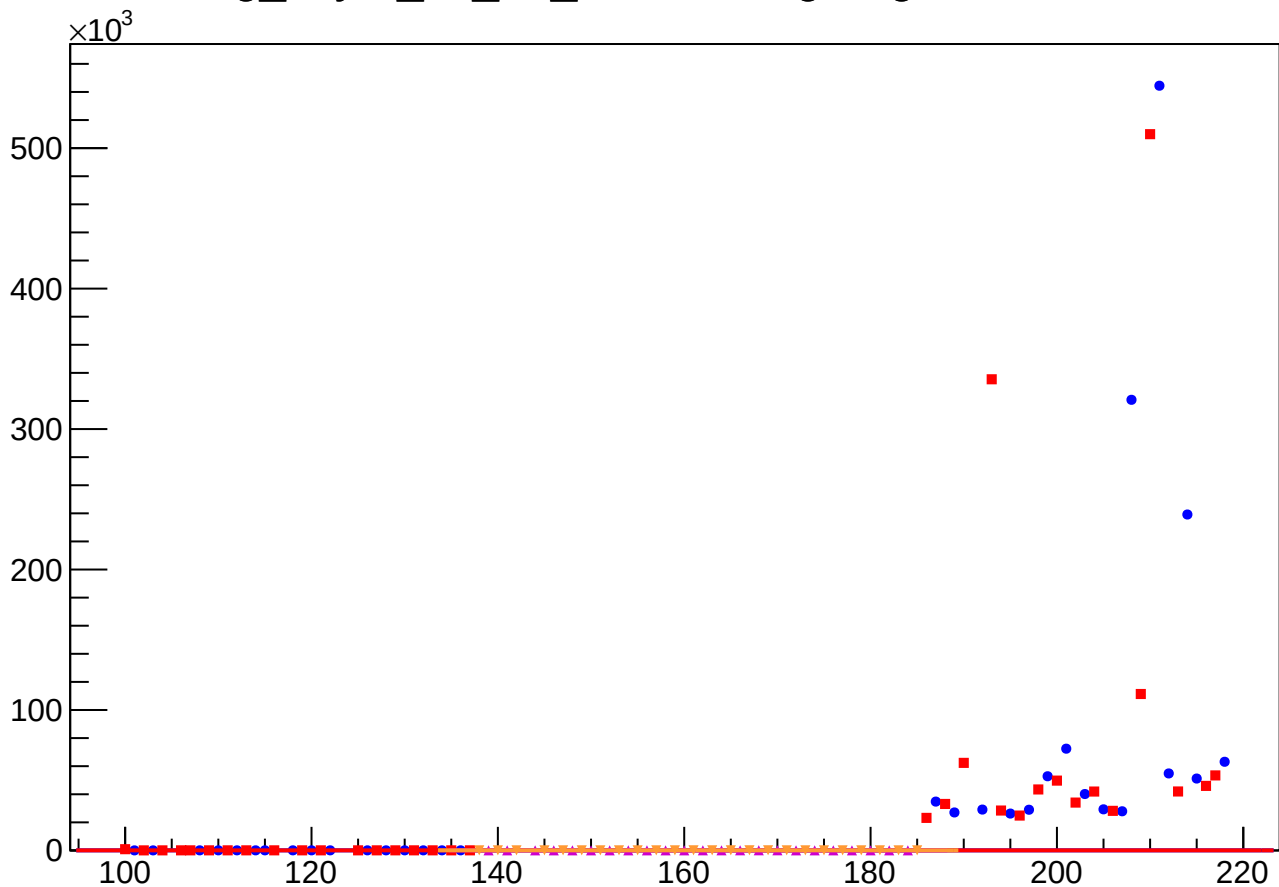
Right: -8.600 ± 21.383 $\chi^2/\text{NDF}: 50.9/60$

In: 31.371 ± 17.528 $\chi^2/\text{NDF}: 55.0/51$

Out: 1.646 ± 17.552 $\chi^2/\text{NDF}: 46.1/55$

All: 16.529 ± 12.403 $\chi^2/\text{NDF}: 102.5/107$

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.094 $\pm$ 0.021 χ^2 /NDF: 6918819.0/31

Left Out: 89.712 $\pm$ 0.015 χ^2 /NDF: 465096.2/23

Right Out: 79.413 $\pm$ 0.022 χ^2 /NDF: 6544606.3/33

Left In: 89.628 $\pm$ 0.015 χ^2 /NDF: 511042.3/22

Left: 89.670 $\pm$ 0.011 χ^2 /NDF: 976153.9/46

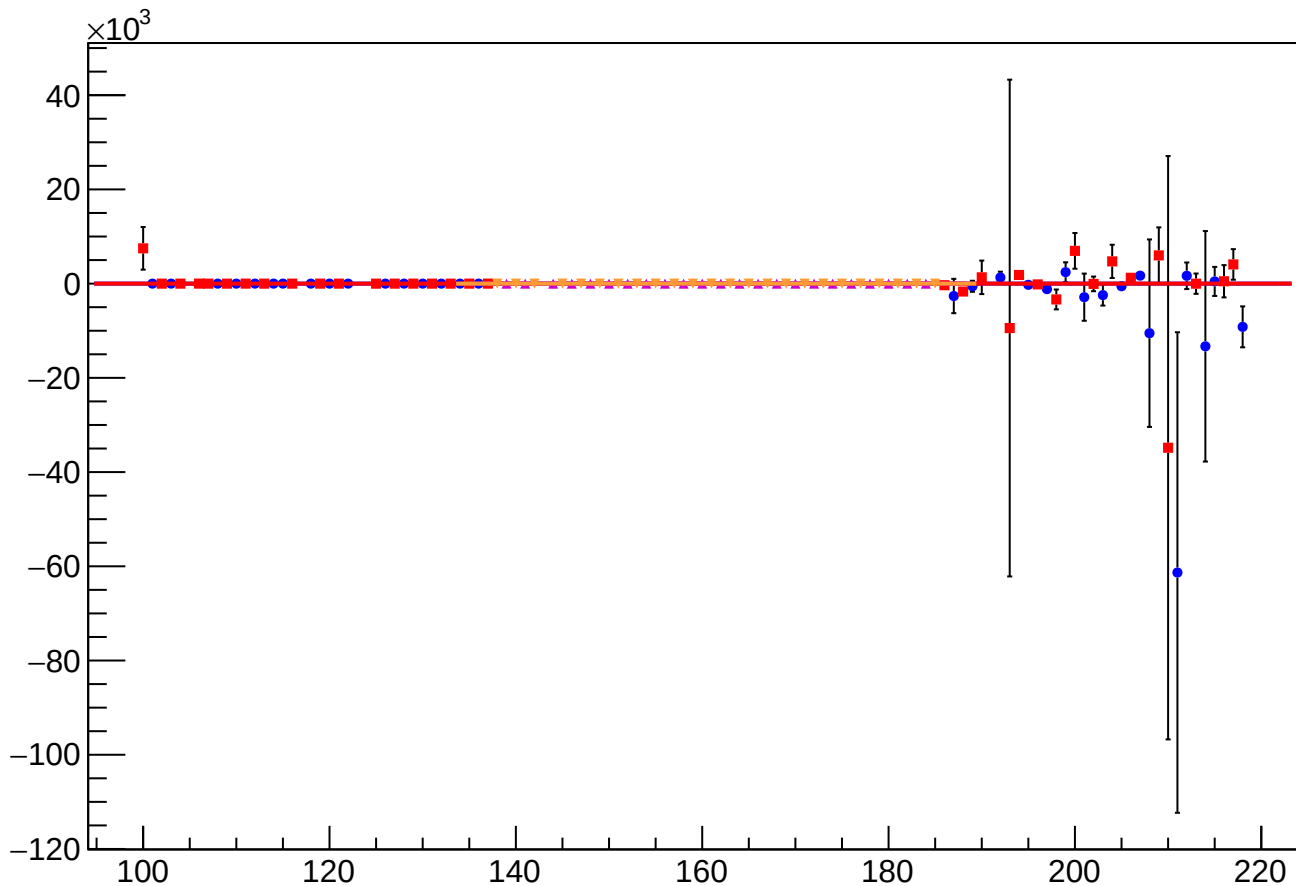
Right: 77.728 $\pm$ 0.015 χ^2 /NDF: 13475467.4/65

In: 85.011 $\pm$ 0.012 χ^2 /NDF: 7697844.9/54

Out: 86.295 $\pm$ 0.012 χ^2 /NDF: 7162373.6/57

All: 85.652 $\pm$ 0.009 χ^2 /NDF: 14865572.5/112

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 χ^2/NDF : 32.3/31

Left Out: -0.516 ± 0.391 χ^2/NDF : 20.7/23

Right Out: 0.348 ± 0.549 χ^2/NDF : 33.6/33

Left In: -0.072 ± 0.390 χ^2/NDF : 20.4/22

Left: -0.293 ± 0.276 χ^2/NDF : 41.7/46

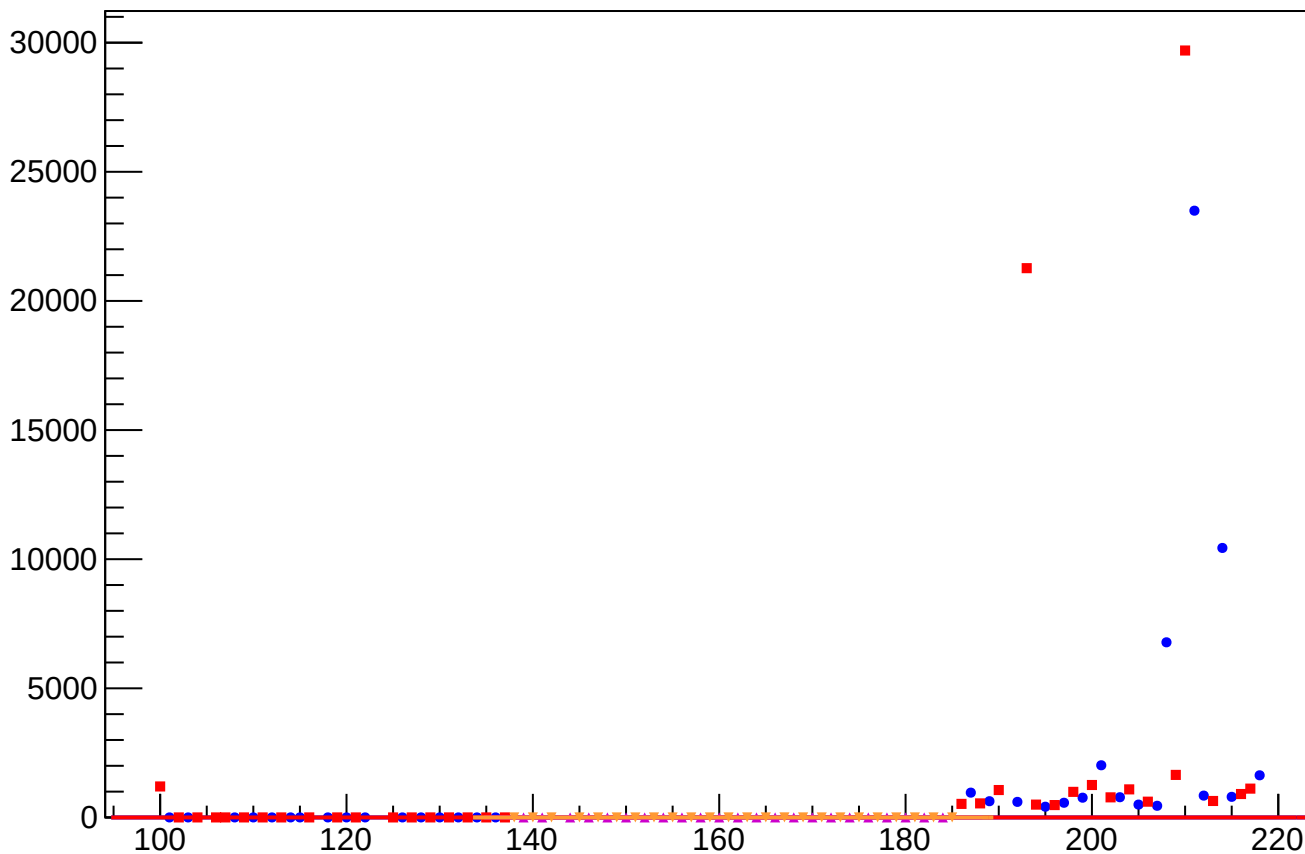
Right: 0.629 ± 0.382 χ^2/NDF : 66.4/65

In: 0.266 ± 0.315 χ^2/NDF : 54.8/54

Out: -0.225 ± 0.318 χ^2/NDF : 55.9/57

All: 0.024 ± 0.224 χ^2/NDF : 112.0/112

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 7229243.8/31

Left Out: 1.470+/-0.000 χ^2/NDF :1154842.2/23

Right Out: 1.317+/-0.000 χ^2/NDF : 7087119.3/33

Left In: 1.461+/-0.000 χ^2/NDF :1048537.6/22

Left: 1.466 ± 0.000 $\chi^2/\text{NDF}: 2203936.9/46$

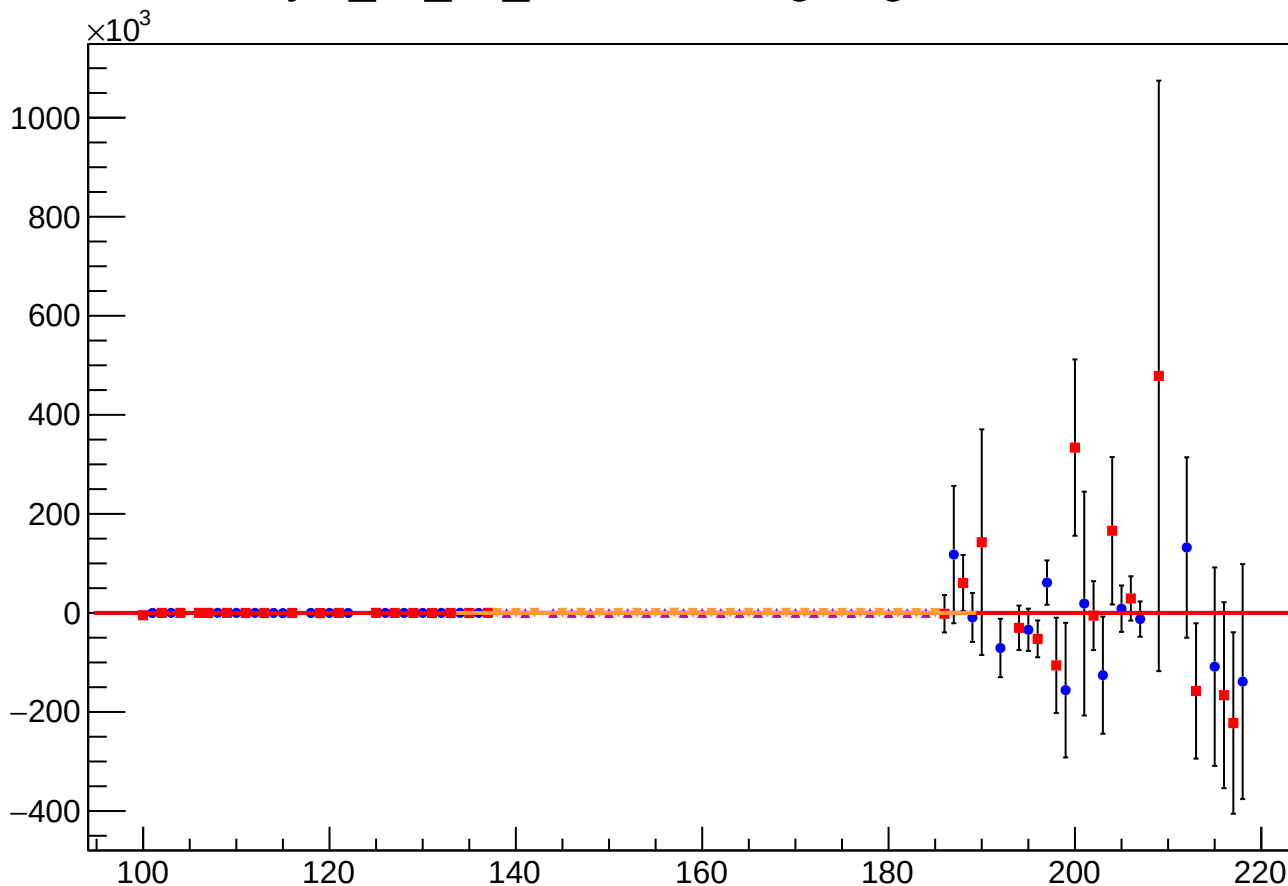
Right: 1.274+/-0.000 χ^2/NDF : 14339549.6/65

ln: 1.382+/-0.000 χ^2 /NDF:8514146.7/54

Out: 1.419+/-0.000 χ^2/NDF :8345920.8/57

All: 1.400+/-0.000 χ^2/NDF : 16873699.4/112

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.379 ± 30.020 χ^2/NDF : 22.4/28

Left Out: 15.770 ± 21.479 χ^2/NDF : 17.1/23

Right Out: -26.412 ± 30.482 χ^2/NDF : 27.6/31

Left In: 43.905 ± 21.600 χ^2/NDF : 31.1/22

Left: 29.758 ± 15.231 χ^2/NDF : 49.0/46

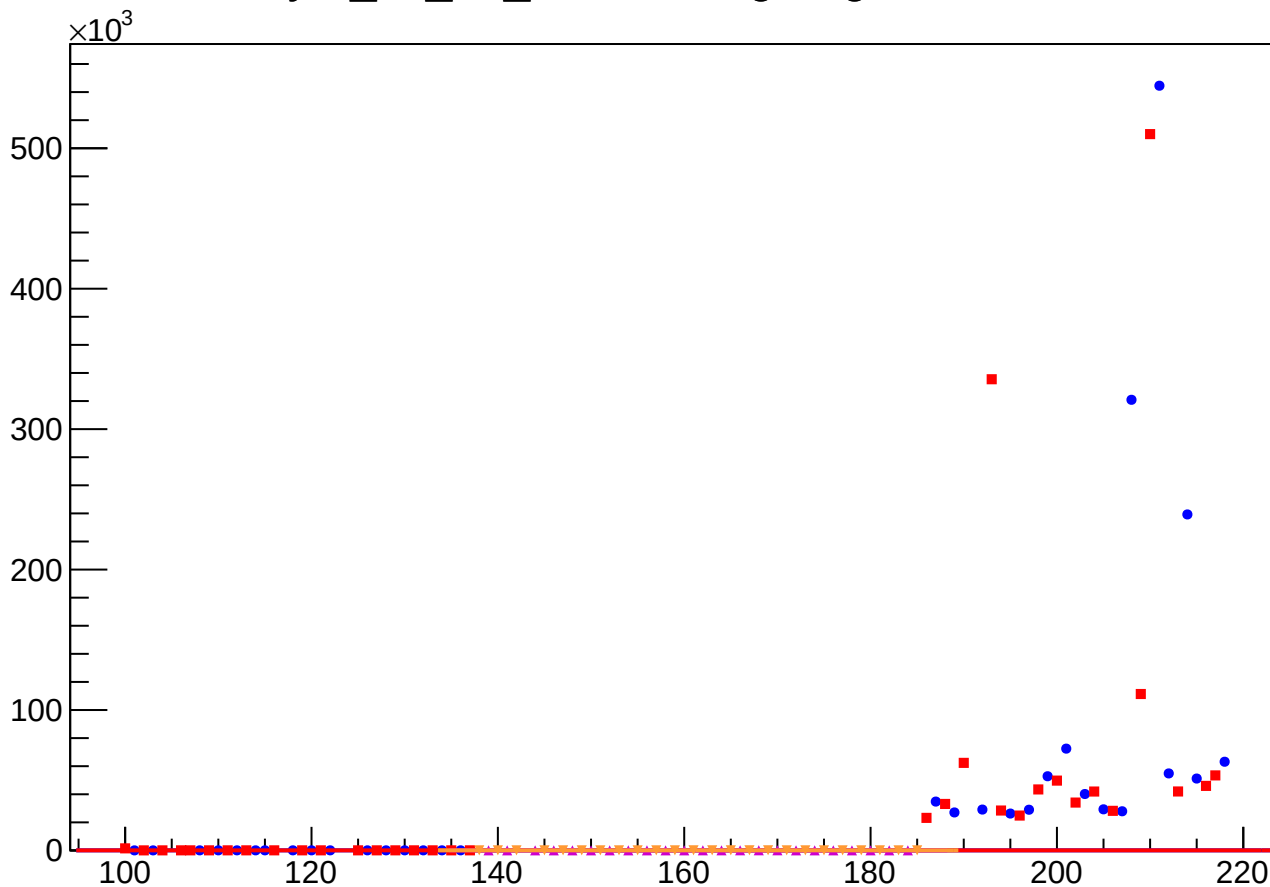
Right: -9.259 ± 21.389 χ^2/NDF : 50.6/60

In: 31.445 ± 17.533 χ^2/NDF : 54.5/51

Out: 1.774 ± 17.558 χ^2/NDF : 45.9/55

All: 16.631 ± 12.407 χ^2/NDF : 101.8/107

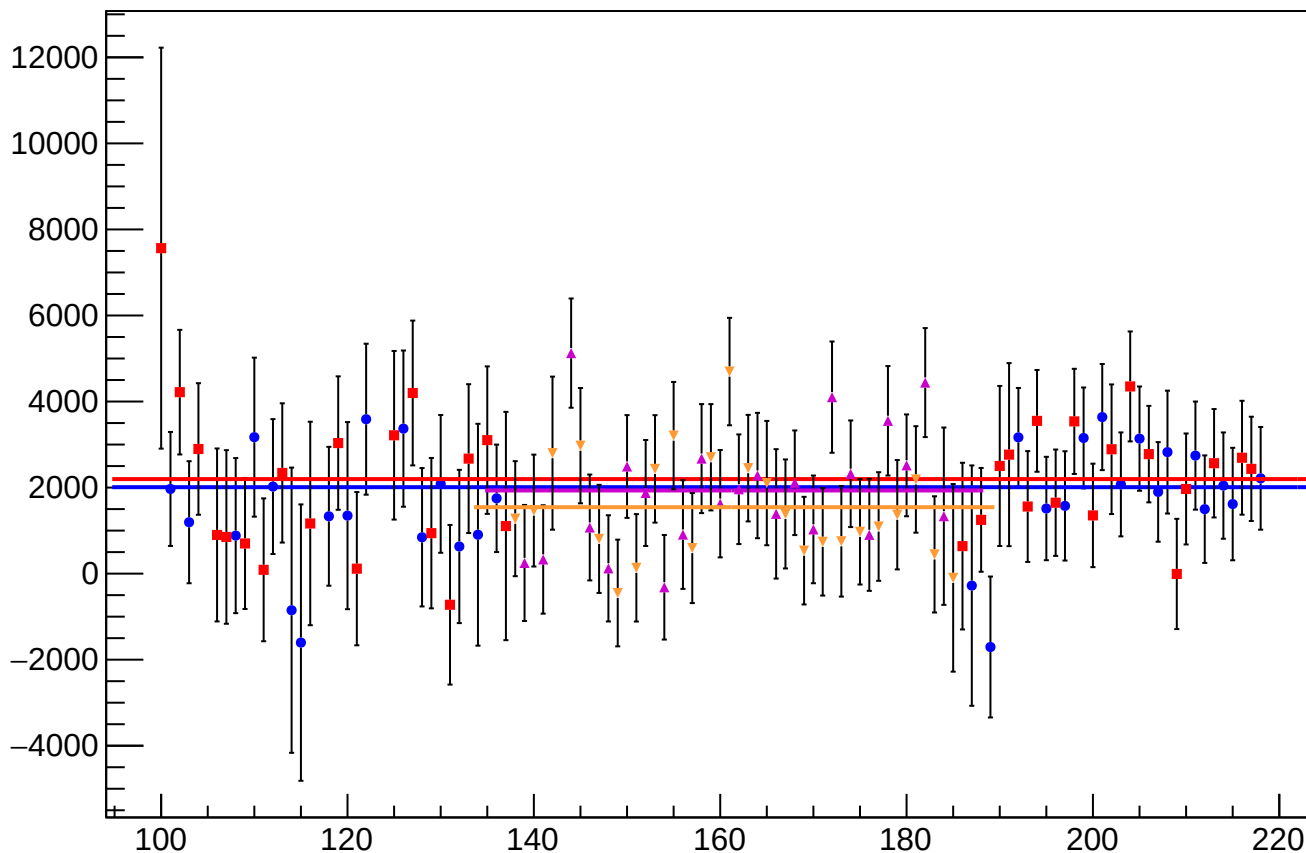
asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.114 $\pm$ 0.021 χ^2 /NDF: 6919010.2/31
 Left Out: 89.740 $\pm$ 0.015 χ^2 /NDF: 465842.6/23
 Right Out: 79.409 $\pm$ 0.022 χ^2 /NDF: 6553924.2/33
 Left In: 89.655 $\pm$ 0.015 χ^2 /NDF: 511848.9/22

Left: 89.697 $\pm$ 0.011 χ^2 /NDF: 977707.1/46
 Right: 77.737 $\pm$ 0.015 χ^2 /NDF: 13484797.0/65
 In: 85.036 $\pm$ 0.012 χ^2 /NDF: 7698938.5/54
 Out: 86.312 $\pm$ 0.012 χ^2 /NDF: 7173262.9/57
 All: 85.673 $\pm$ 0.009 χ^2 /NDF: 14877492.4/112

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 2009.214 $\pm$ 256.951 χ^2/NDF : 17.8/31

Left Out: 1544.102 $\pm$ 266.270 χ^2/NDF : 20.0/23

Right Out: 2197.389 $\pm$ 255.535 χ^2/NDF : 25.4/34

Left In: 1933.000 $\pm$ 268.006 χ^2/NDF : 27.0/22

Left: 1737.287 $\pm$ 188.892 χ^2/NDF : 48.0/46

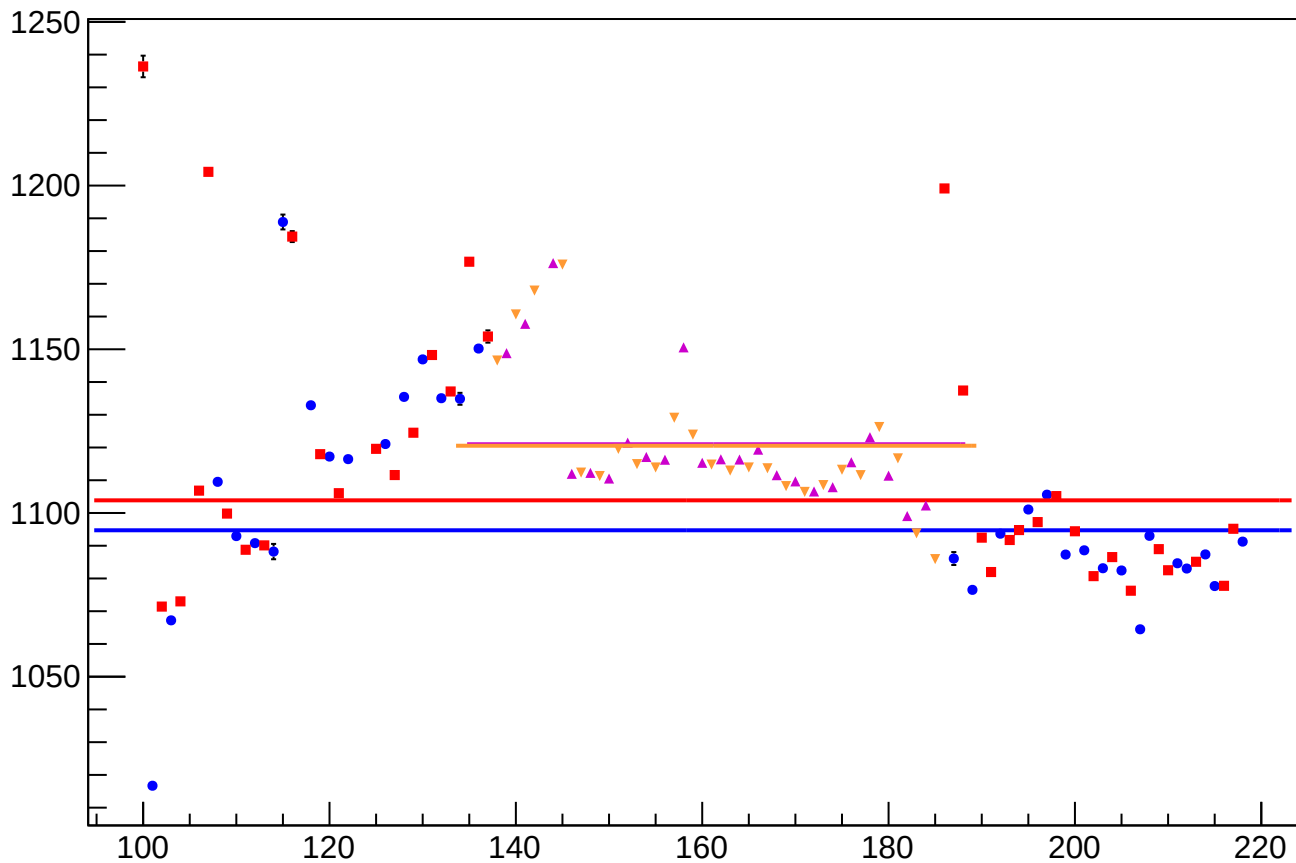
Right: 2103.822 $\pm$ 181.189 χ^2/NDF : 43.4/66

In: 1972.711 $\pm$ 185.477 χ^2/NDF : 44.8/54

Out: 1884.179 $\pm$ 184.369 χ^2/NDF : 48.5/58

All: 1928.180 $\pm$ 130.759 χ^2/NDF : 93.4/113

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1094.718 $\pm$ 0.182 χ^2 /NDF: 23582.7/31

Left Out: 1120.543 $\pm$ 0.188 χ^2 /NDF:10252.7/23

Right Out: 1103.862 $\pm$ 0.181 χ^2 /NDF: 29205.2/34

Left In: 1120.991 $\pm$ 0.190 χ^2 /NDF:9641.8/22

Left: 1120.765 $\pm$ 0.134 χ^2 /NDF: 19897.3/46

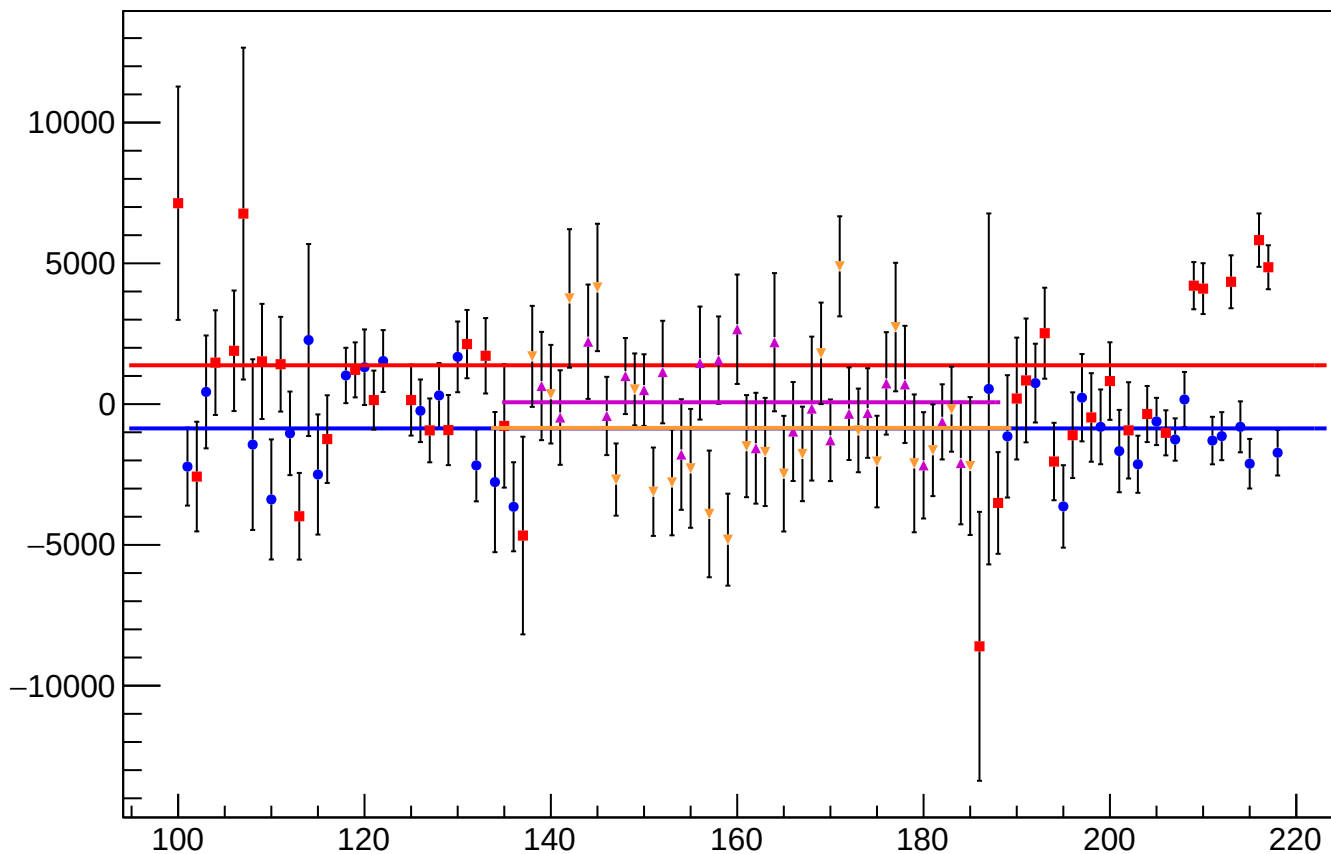
Right: 1099.315 $\pm$ 0.128 χ^2 /NDF: 54061.4/66

In: 1107.301 $\pm$ 0.131 χ^2 /NDF:43239.2/54

Out: 1111.860 $\pm$ 0.130 χ^2 /NDF:43543.8/58

All: 1109.594 $\pm$ 0.092 χ^2 /NDF: 87390.6/113

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -862.870 $\pm$ 211.567 χ^2/NDF : 37.8/31

Left Out: -845.009 $\pm$ 361.141 χ^2/NDF : 43.2/23

Right Out: 1379.358 $\pm$ 221.908 χ^2/NDF : 145.3/34

Left In: 65.738 $\pm$ 358.785 χ^2/NDF : 12.1/22

Left: -386.655 $\pm$ 254.528 χ^2/NDF : 58.6/46

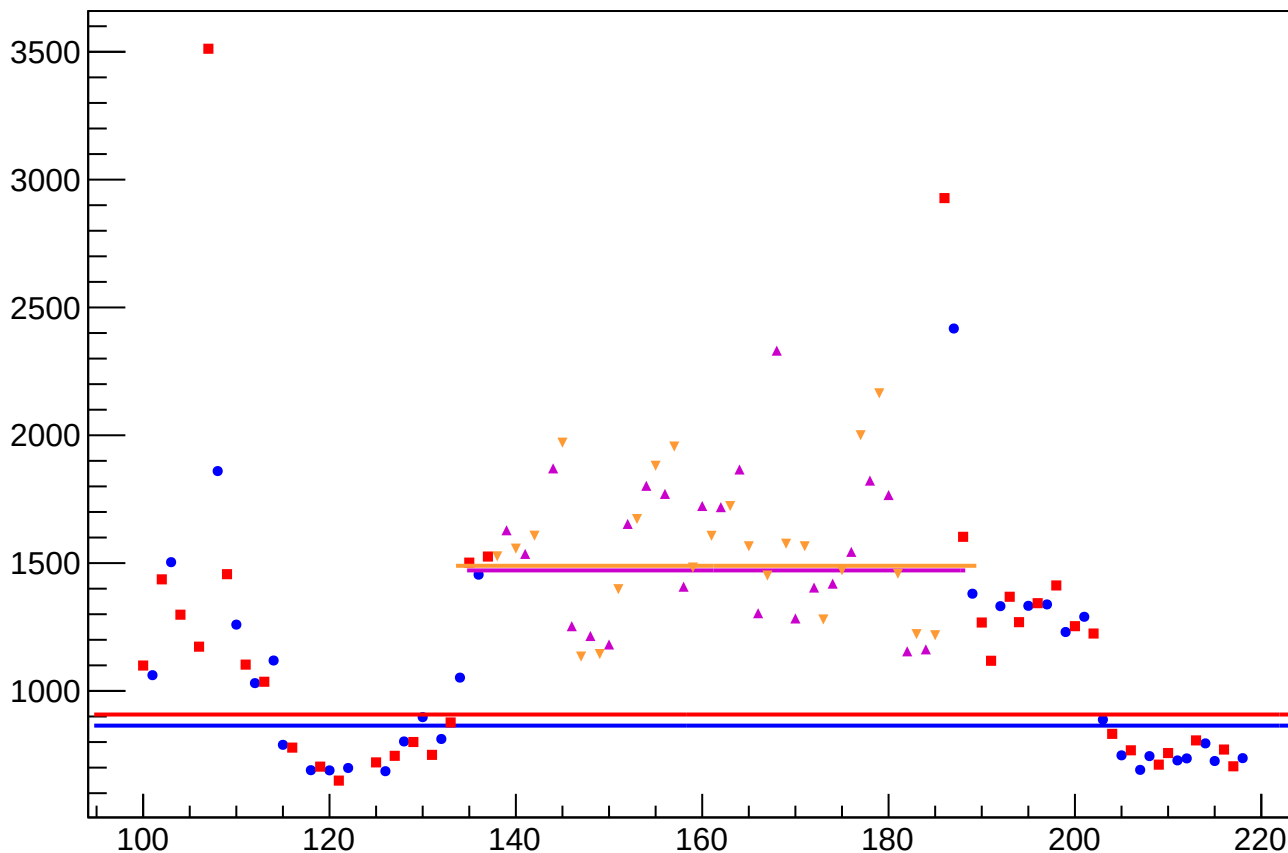
Right: 204.786 $\pm$ 153.126 χ^2/NDF : 236.6/66

In: -623.284 $\pm$ 182.242 χ^2/NDF : 54.9/54

Out: 769.701 $\pm$ 189.067 χ^2/NDF : 216.0/58

All: 47.612 $\pm$ 131.211 χ^2/NDF : 299.1/113

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 864.281+/-0.150 χ^2/NDF : 2618393.6/31

Left Out: 1489.507+/-0.255 χ^2/NDF : 1009228.3/23

Right Out: 907.698+/-0.157 χ^2/NDF : 3442415.2/34

Left In: 1471.394+/-0.254 χ^2/NDF : 1105310.5/22

Left: 1480.391+/-0.180 χ^2/NDF : 2117070.9/46

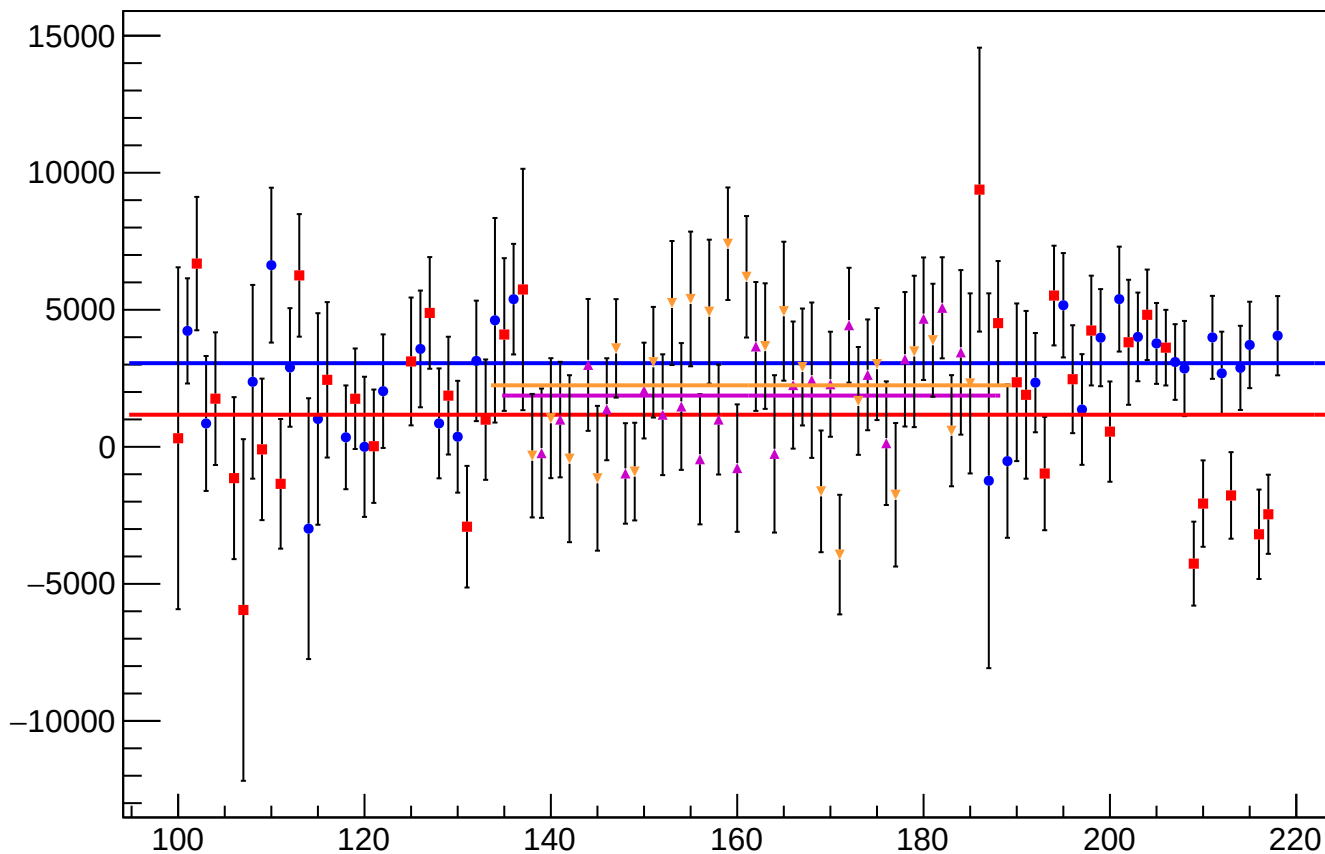
Right: 884.954+/-0.108 χ^2/NDF : 6100914.7/66

In: 1020.919+/-0.129 χ^2/NDF : 7972833.0/54

Out: 1067.161+/-0.134 χ^2/NDF : 8219768.5/58

All: 1043.190+/-0.093 χ^2/NDF : 16254619.0/100

asym_usl_mean vs Slug, Sign Corrected



Right In: 3052.158 $\pm$ 347.007 χ^2 /NDF: 20.5/31

Left Out: 2244.415 $\pm$ 456.474 χ^2 /NDF:38.6/23

Right Out: 1171.797 $\pm$ 355.907 χ^2 /NDF: 81.7/34

Left In: 1869.792 $\pm$ 455.465 χ^2 /NDF:14.9/22

Left: 2056.689 $\pm$ 322.419 χ^2 /NDF: 53.8/46

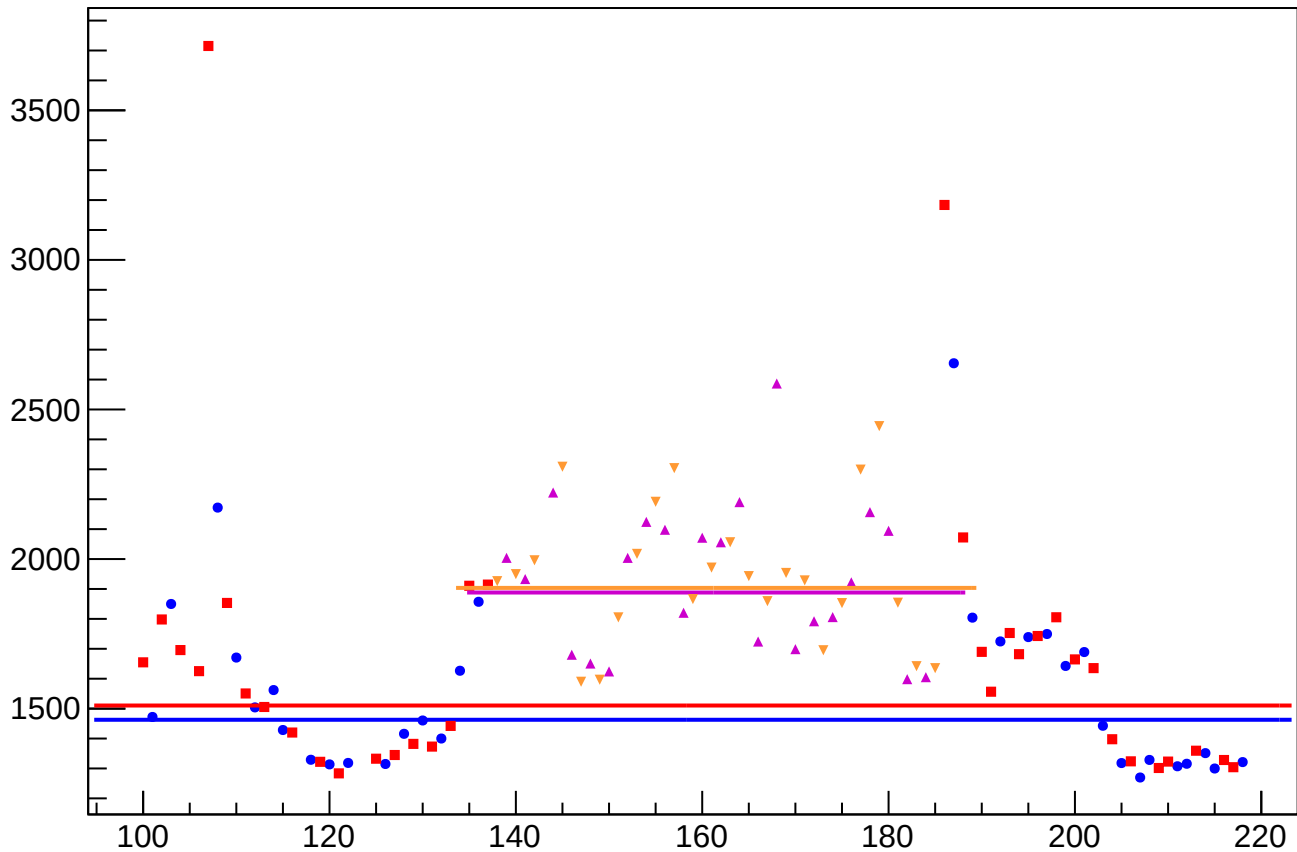
Right: 2135.782 $\pm$ 248.458 χ^2 /NDF: 116.6/66

In: 2617.911 $\pm$ 276.024 χ^2 /NDF:39.7/54

Out: 1577.327 $\pm$ 280.676 χ^2 /NDF:123.8/58

All: 2106.313 $\pm$ 196.803 χ^2 /NDF: 170.4/113

asym_usl_rms vs Slug, Sign Corrected



Right In: 1462.741+/-0.245 χ^2/NDF : 686591.3/31

Left Out: 1903.581+/-0.323 χ^2/NDF : 461788.9/23

Right Out: 1510.391+/-0.252 χ^2/NDF : 1148880.7/34

Left In: 1888.121+/-0.322 χ^2/NDF : 504568.6/22

Left: 1895.834+/-0.228 χ^2/NDF : 967507.1/46

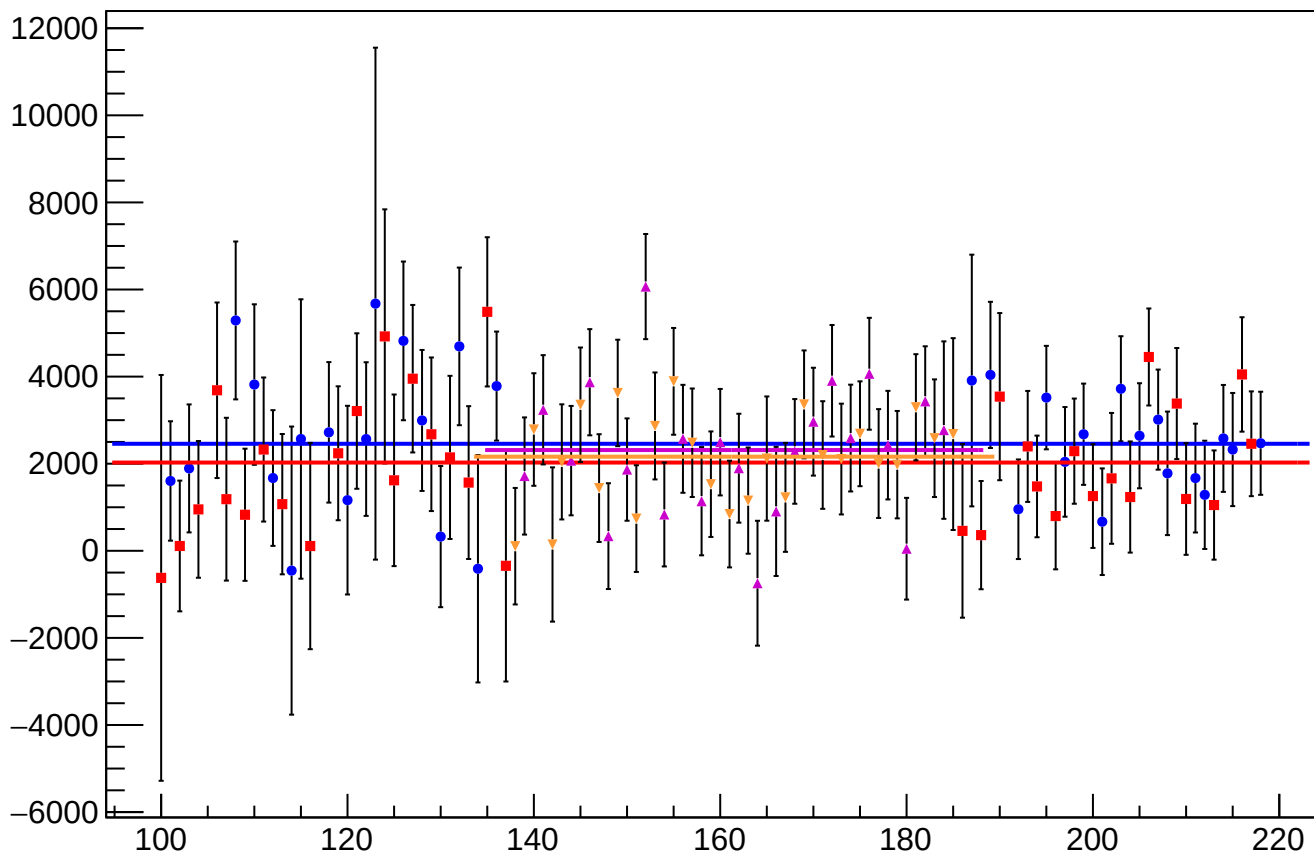
Right: 1485.963+/-0.176 χ^2/NDF : 1853850.8/66

In: 1618.970+/-0.195 χ^2/NDF : 2294968.1/54

Out: 1659.046+/-0.198 χ^2/NDF : 2533535.8/58

All: 1638.673+/-0.139 χ^2/NDF : 4849231.9/11

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2457.558 $\pm$ 256.785 χ^2 /NDF: 21.4/32

Left Out: 2161.427 $\pm$ 257.518 χ^2 /NDF:15.1/24

Right Out: 2026.577 $\pm$ 256.191 χ^2 /NDF: 27.5/34

Left In: 2313.505 $\pm$ 264.429 χ^2 /NDF:31.3/22

Left: 2235.453 $\pm$ 184.488 χ^2 /NDF: 46.5/47

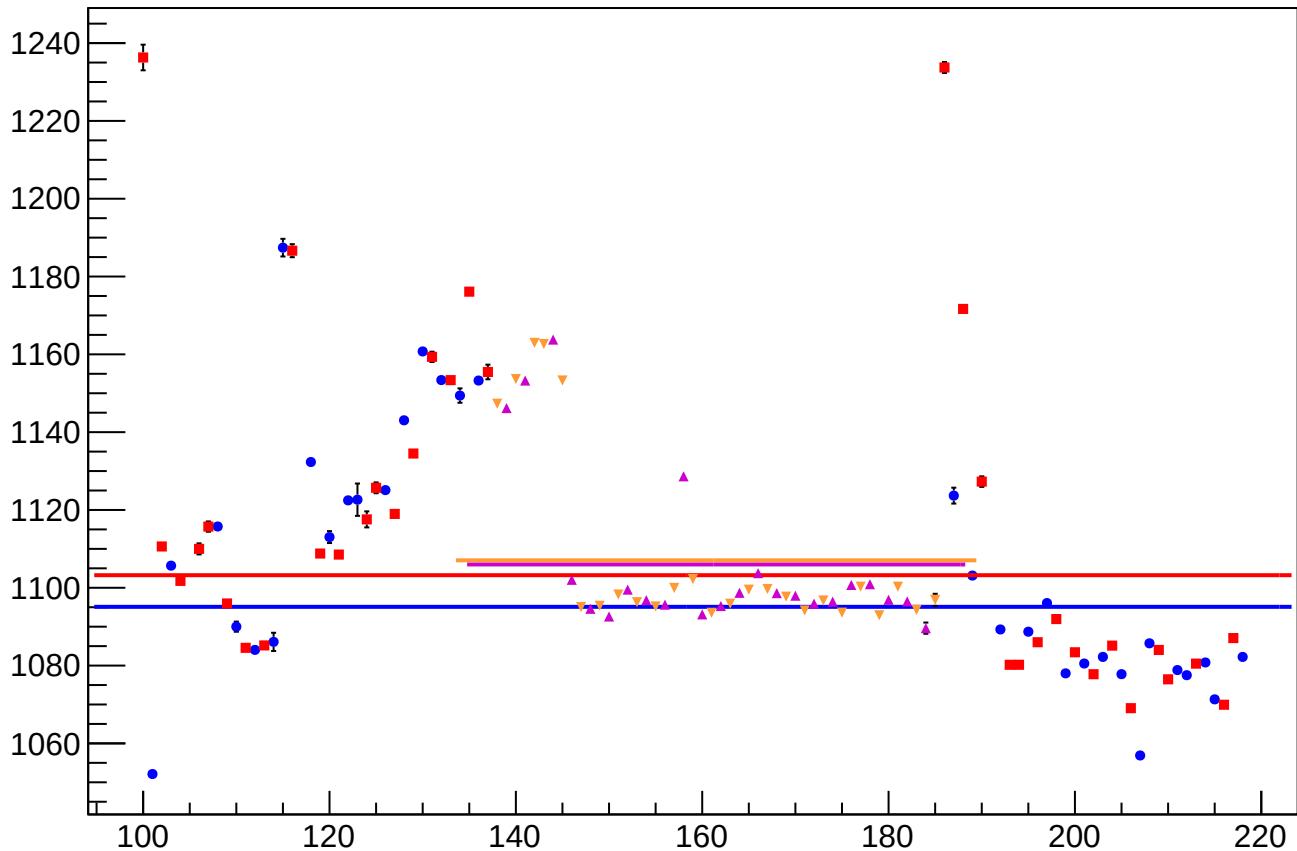
Right: 2241.569 $\pm$ 181.364 χ^2 /NDF: 50.3/67

In: 2387.644 $\pm$ 184.218 χ^2 /NDF:52.9/55

Out: 2093.654 $\pm$ 181.622 χ^2 /NDF:42.7/59

All: 2238.563 $\pm$ 129.334 χ^2 /NDF: 96.9/115

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1095.101 $\pm$ 0.182 χ^2 /NDF: 24596.5/32

Left Out: 1107.057 $\pm$ 0.182 χ^2 /NDF:15175.6/24

Right Out: 1103.232 $\pm$ 0.181 χ^2 /NDF: 37794.7/34

Left In: 1105.997 $\pm$ 0.187 χ^2 /NDF:11551.3/22

Left: 1106.541 $\pm$ 0.130 χ^2 /NDF: 26743.4/47

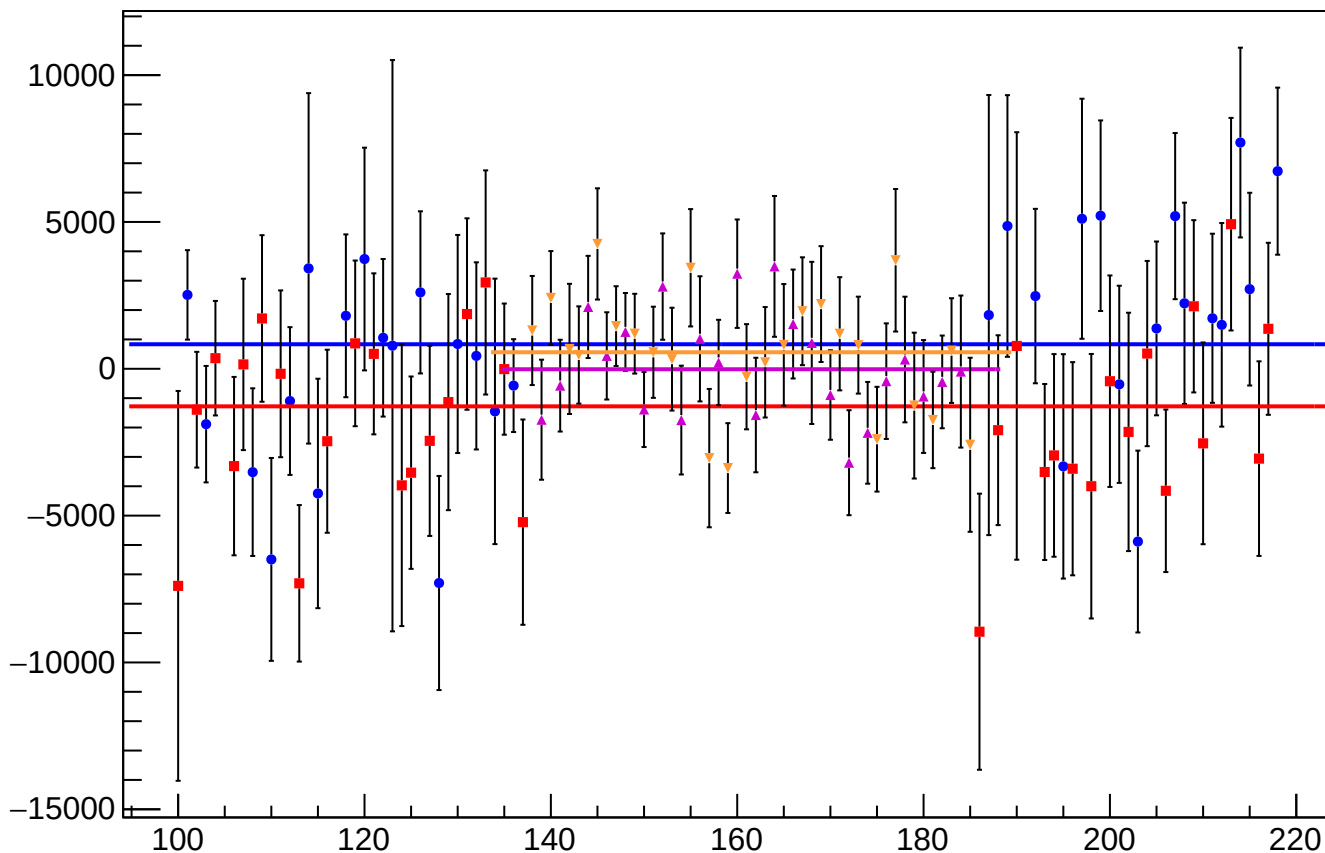
Right: 1099.176 $\pm$ 0.128 χ^2 /NDF: 63396.2/67

In: 1100.389 $\pm$ 0.130 χ^2 /NDF:37895.4/55

Out: 1105.134 $\pm$ 0.128 χ^2 /NDF:53192.0/59

All: 1102.795 $\pm$ 0.091 χ^2 /NDF: 91760.5/115

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 835.624 $\pm$ 515.874 χ^2/NDF : 41.5/32

Left Out: 563.282 $\pm$ 360.901 χ^2/NDF : 26.8/24

Right Out: -1278.877 $\pm$ 526.652 χ^2/NDF : 25.8/34

Left In: -15.520 $\pm$ 366.854 χ^2/NDF : 20.1/22

Left: 278.615 $\pm$ 257.275 χ^2/NDF : 48.2/47

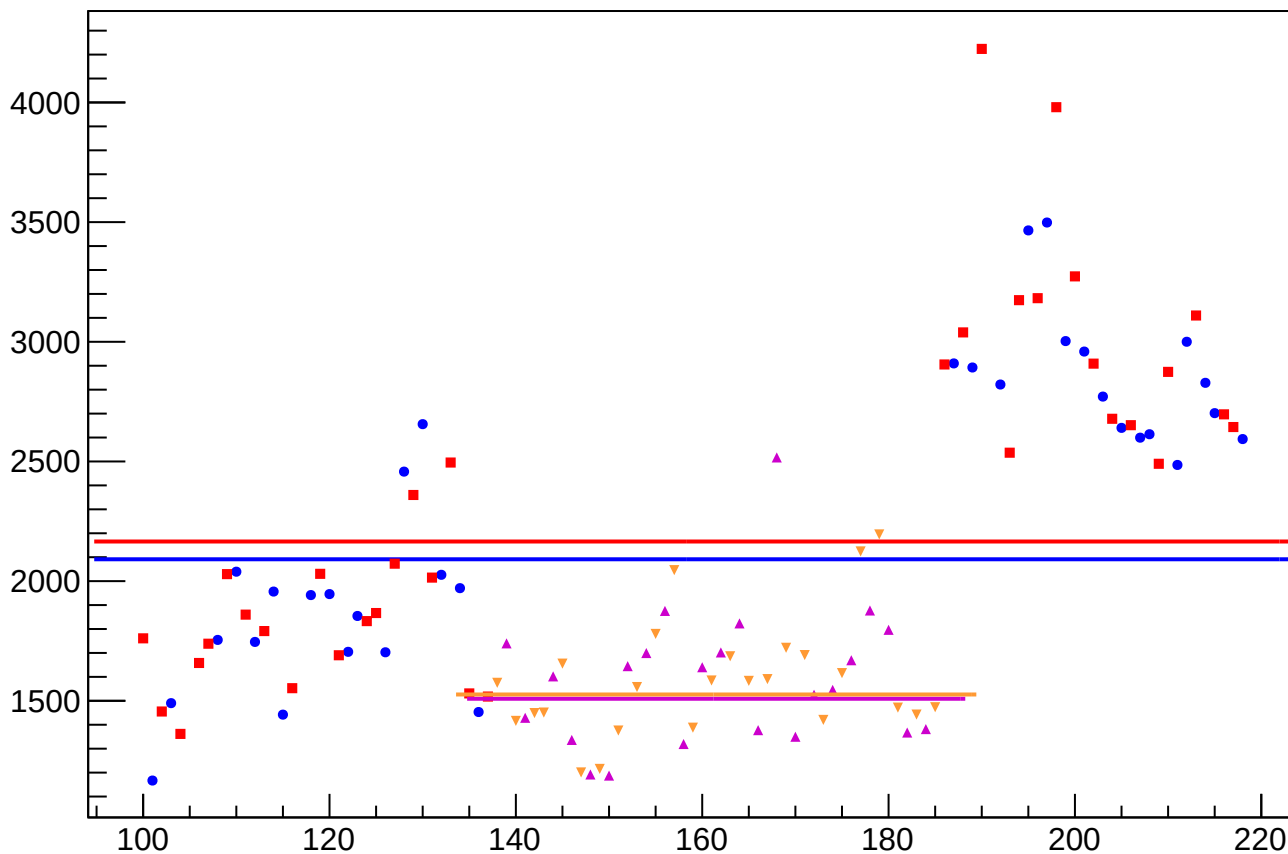
Right: -199.767 $\pm$ 368.530 χ^2/NDF : 75.5/67

In: 270.346 $\pm$ 298.967 χ^2/NDF : 63.5/55

Out: -25.367 $\pm$ 297.707 χ^2/NDF : 60.9/59

All: 121.865 $\pm$ 210.955 χ^2/NDF : 124.8/115

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 2091.333+/-0.365

χ^2/NDF : 3211988.4/32

Left Out: 1526.391+/-0.255

χ^2/NDF : 753714.4/24

Right Out: 2165.585+/-0.372

χ^2/NDF : 2958255.5/34

Left In: 1508.581+/-0.259

χ^2/NDF : 931684.8/22

Left: 1517.632+/-0.182 χ^2/NDF : 1687794.7/47

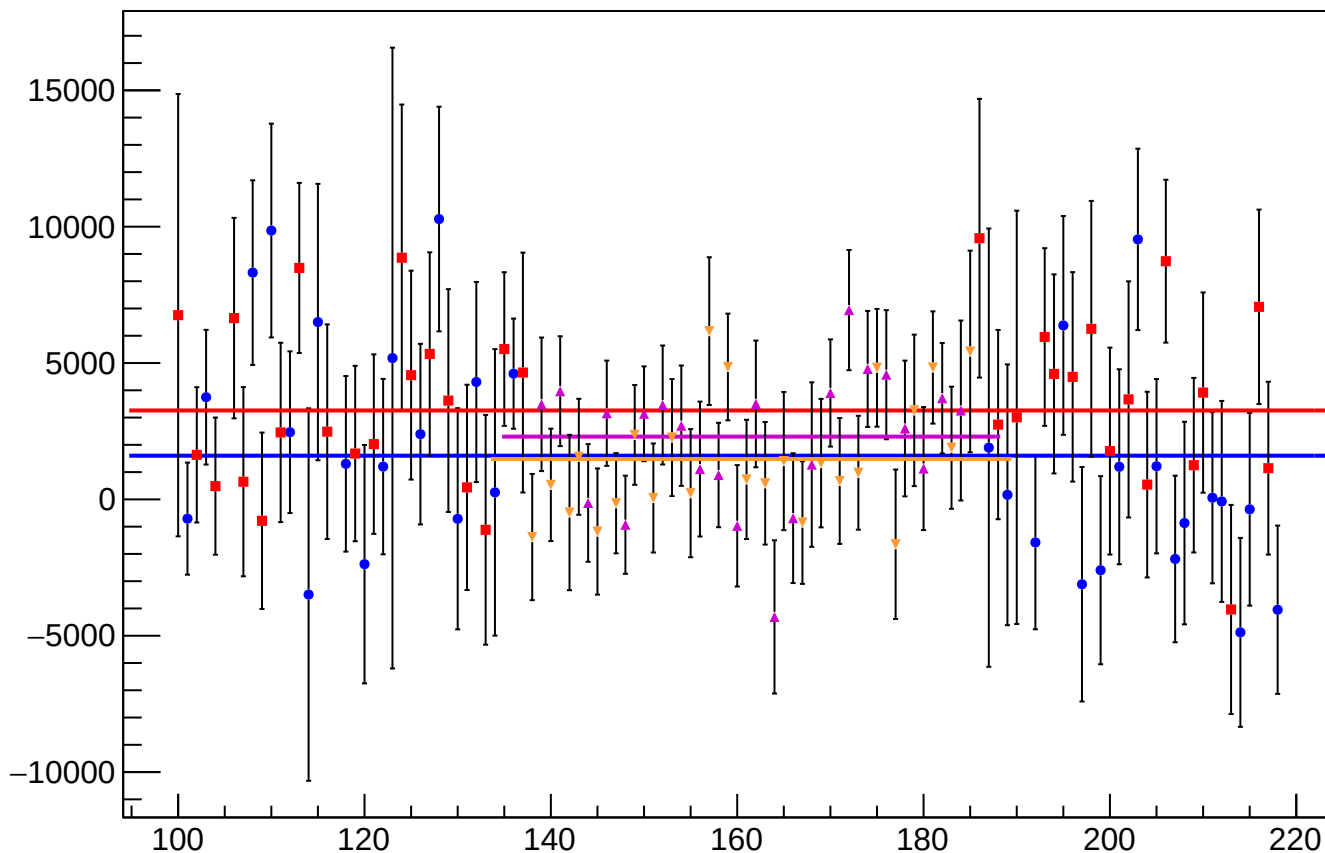
Right: 2127.691+/-0.261 χ^2/NDF : 6190533.0/67

In: 1704.305+/-0.211 χ^2/NDF : 5838671.5/55

Out: 1730.641+/-0.211 χ^2/NDF : 5716662.7/59

All: 1717.528+/-0.149 χ^2/NDF : 11563127.2/131

asym_usr_mean vs Slug, Sign Corrected



Right In: 1602.084 $\pm$ 598.170 χ^2 /NDF: 41.1/32

Left Out: 1482.365 $\pm$ 449.983 χ^2 /NDF:20.9/24

Right Out: 3260.707 $\pm$ 604.756 χ^2 /NDF: 24.6/34

Left In: 2301.247 $\pm$ 459.040 χ^2 /NDF:24.8/22

Left: 1883.648 $\pm$ 321.340 χ^2 /NDF: 47.4/47

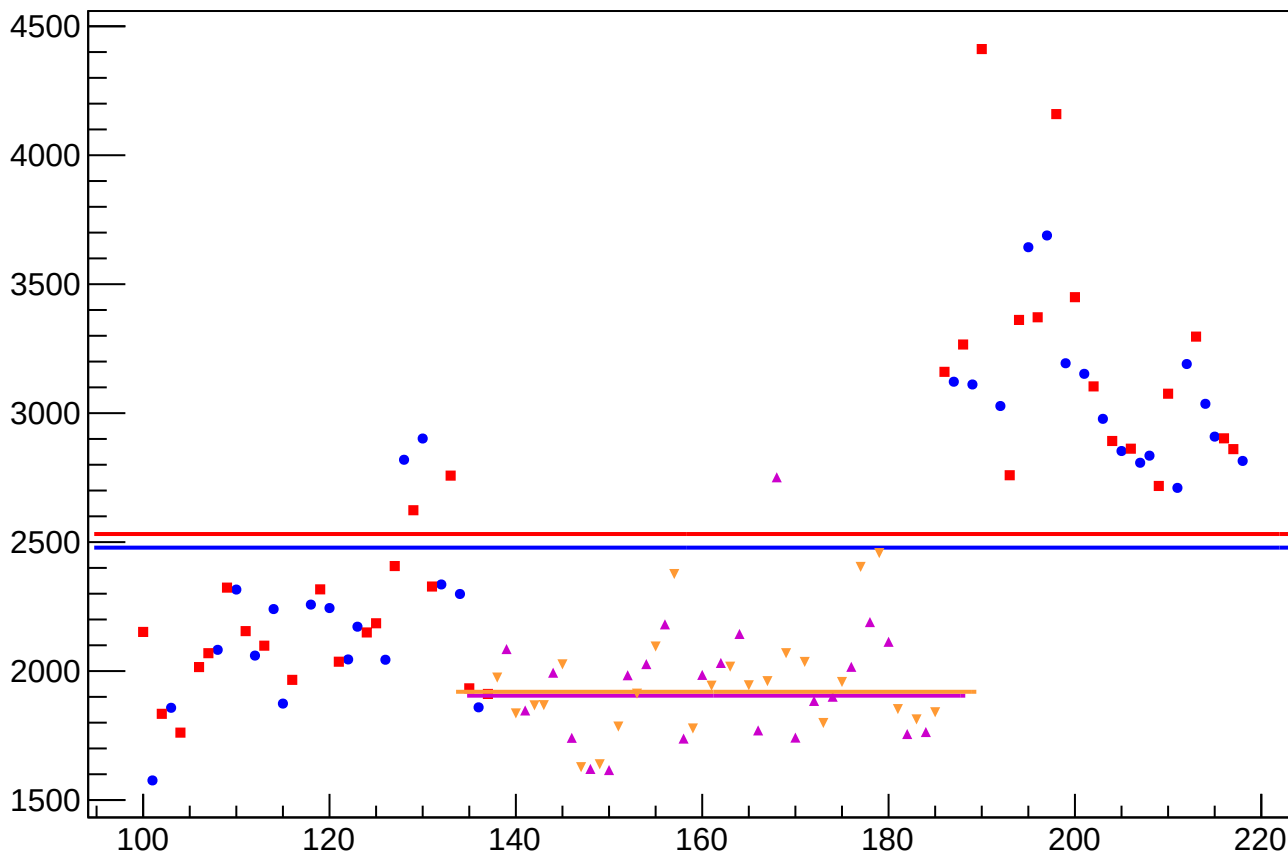
Right: 2422.315 $\pm$ 425.279 χ^2 /NDF: 69.4/67

In: 2042.110 $\pm$ 364.167 χ^2 /NDF:66.7/55

Out: 2116.082 $\pm$ 361.011 χ^2 /NDF:51.1/59

All: 2079.418 $\pm$ 256.382 χ^2 /NDF: 117.8/115

asym_usr_rms vs Slug, Sign Corrected



Right In: 2478.616 $\pm$ 0.423 χ^2 /NDF: 1826355.2/32

Left Out: 1919.732 $\pm$ 0.318 χ^2 /NDF: 366218.1/24

Right Out: 2531.388 $\pm$ 0.428 χ^2 /NDF: 1829181.2/34

Left In: 1904.629 $\pm$ 0.325 χ^2 /NDF: 447350.7/22

Left: 1912.331 $\pm$ 0.227 χ^2 /NDF: 814672.9/47

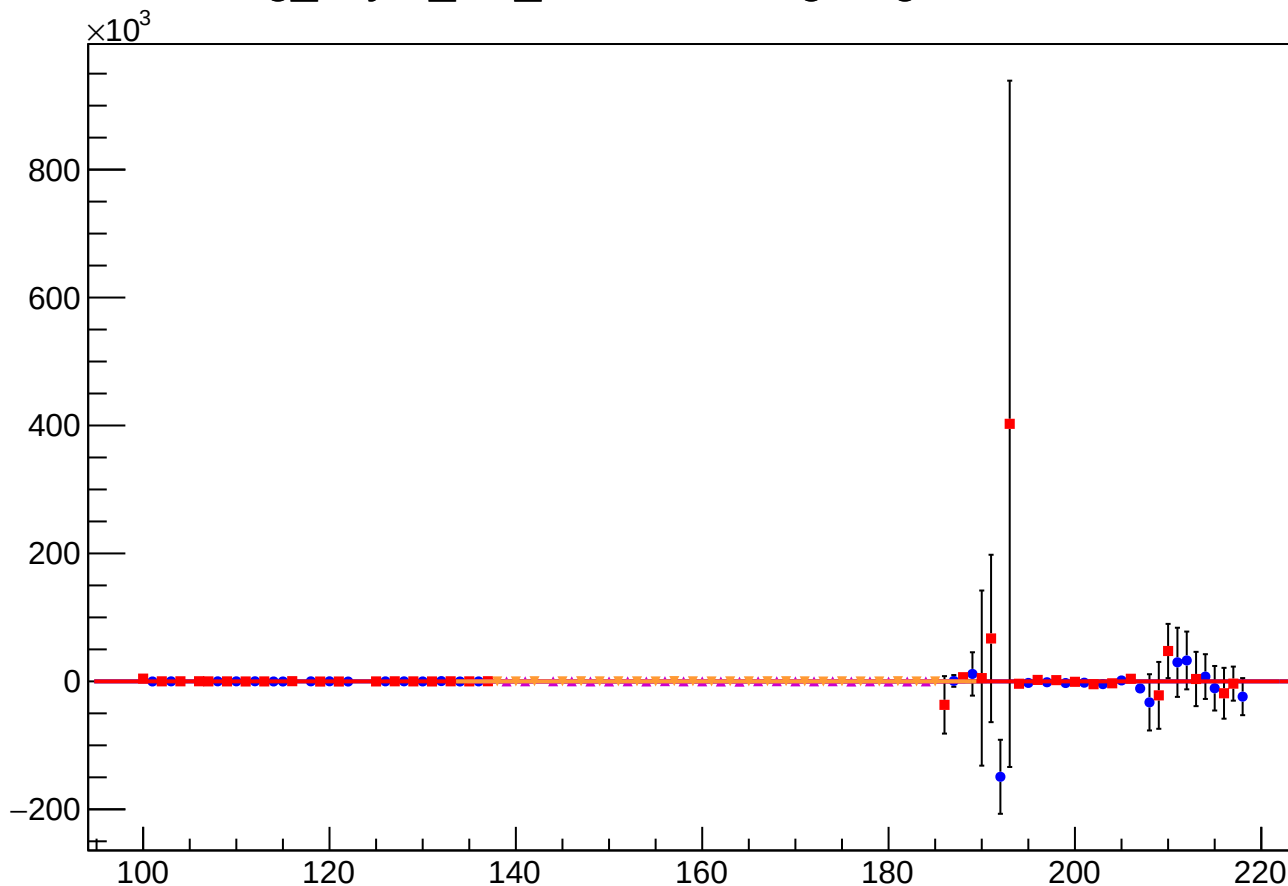
Right: 2504.713 $\pm$ 0.301 χ^2 /NDF: 3663234.4/67

In: 2117.371 $\pm$ 0.258 χ^2 /NDF: 3432710.0/55

Out: 2137.697 $\pm$ 0.255 χ^2 /NDF: 3512237.0/59

All: 2127.622 $\pm$ 0.181 χ^2 /NDF: 6948089.5/111

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.385 ± 36.762 χ^2/NDF : 33.7/31

Left Out: 12.260 ± 26.260 χ^2/NDF : 35.9/23

Right Out: 1.835 ± 36.747 χ^2/NDF : 21.1/34

Left In: 24.786 ± 26.343 χ^2/NDF : 36.4/22

Left: 18.503 ± 18.598 χ^2/NDF : 72.4/46

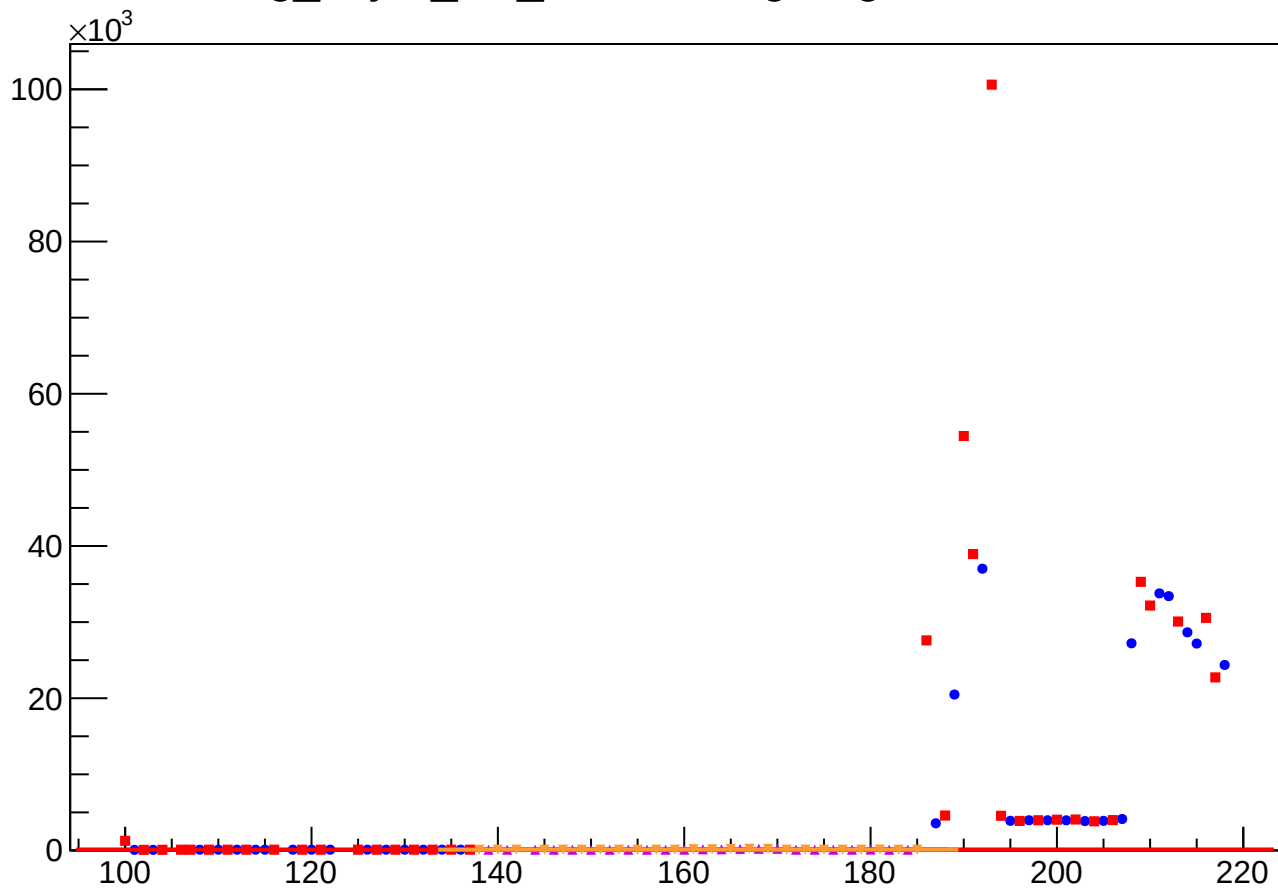
Right: -0.274 ± 25.989 χ^2/NDF : 54.8/66

In: 15.568 ± 21.413 χ^2/NDF : 70.4/54

Out: 8.736 ± 21.365 χ^2/NDF : 57.1/58

All: 12.144 ± 15.124 χ^2/NDF : 127.6/113

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.193+/-0.026 χ^2/NDF : 19410218.6/31

Left Out: 108.059+/-0.019 χ^2/NDF : 1434979.3/23

Right Out: 98.362+/-0.026 χ^2/NDF : 18170466.9/34

Left In: 107.672+/-0.019 χ^2/NDF : 1491034.7/22

Left: 107.867+/-0.013 χ^2/NDF : 2926230.6/46

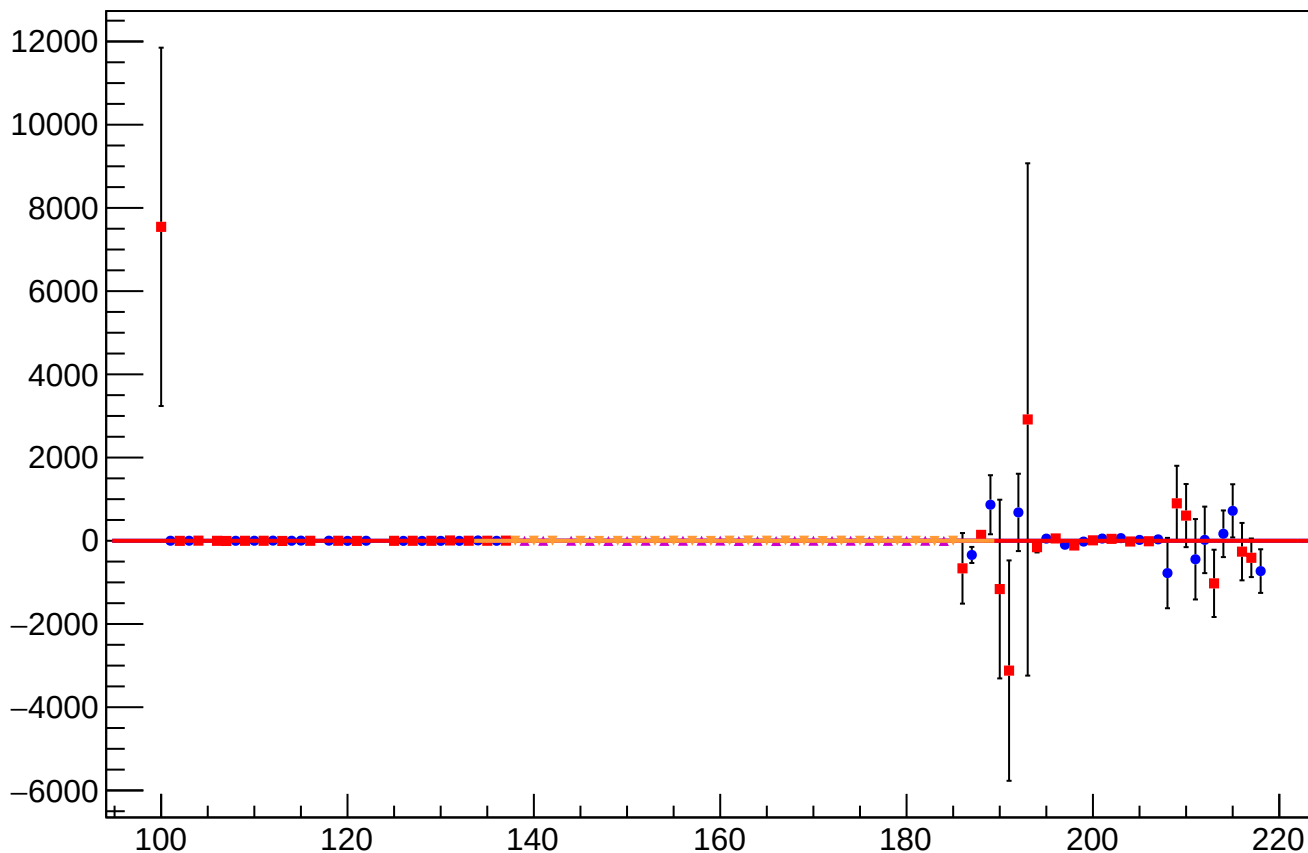
Right: 97.278+/-0.018 χ^2/NDF : 37584167.3/66

In: 103.778+/-0.015 χ^2/NDF : 21030098.2/54

Out: 104.781+/-0.015 χ^2/NDF : 19697644.6/58

All: 104.281+/-0.011 χ^2/NDF : 40729944.4/111

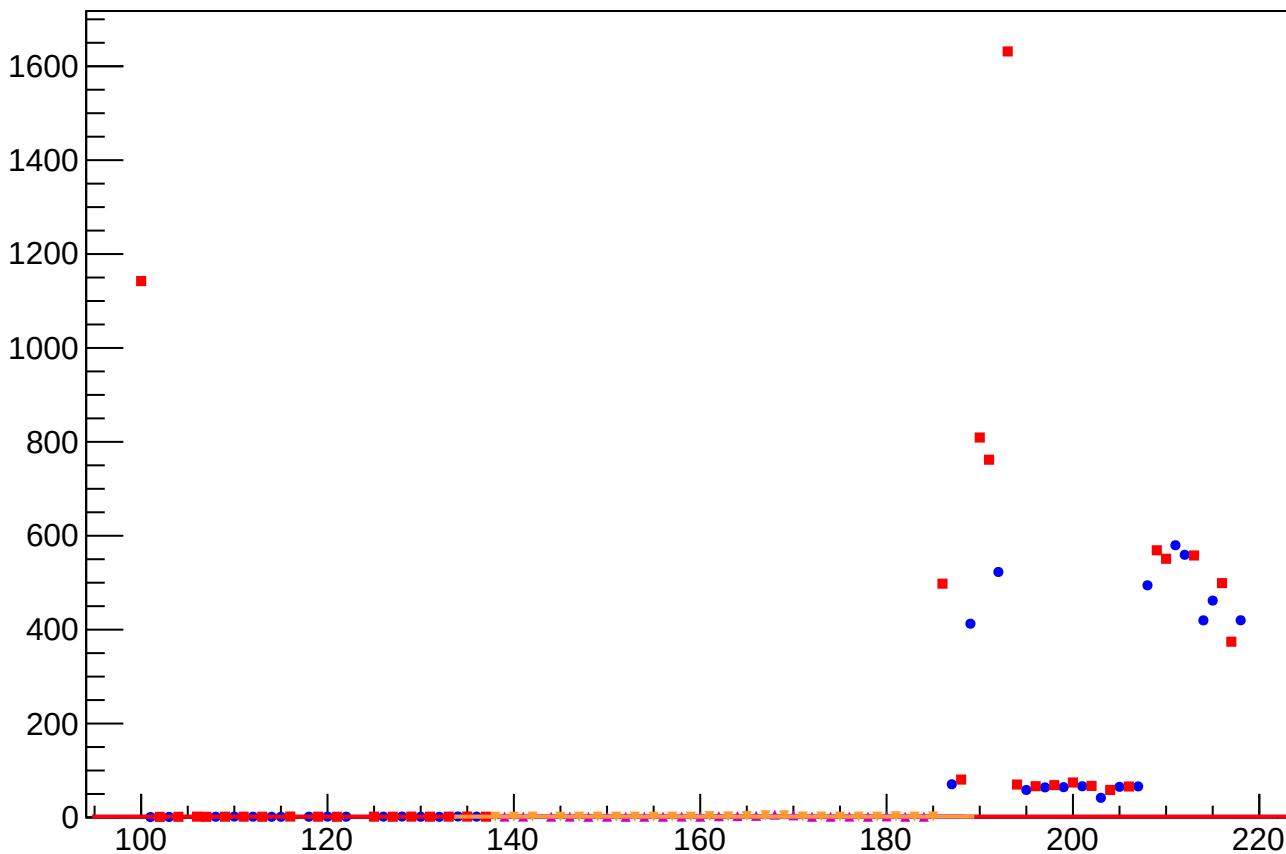
asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.397 ± 0.617 $\chi^2/\text{NDF}: 23.8/31$
Left Out: -0.534 ± 0.475 $\chi^2/\text{NDF}: 30.5/23$
Right Out: -0.347 ± 0.644 $\chi^2/\text{NDF}: 33.8/34$
Left In: -0.067 ± 0.485 $\chi^2/\text{NDF}: 25.0/22$

Left: -0.306 ± 0.339 $\chi^2/\text{NDF}: 56.0/46$
Right: 0.040 ± 0.445 $\chi^2/\text{NDF}: 58.3/66$
In: 0.110 ± 0.381 $\chi^2/\text{NDF}: 49.1/54$
Out: -0.468 ± 0.382 $\chi^2/\text{NDF}: 64.4/58$
All: -0.179 ± 0.270 $\chi^2/\text{NDF}: 114.7/113$

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.452+/-0.000 χ^2/NDF : 16884456.6/31

Left Out: 1.771+/-0.000 χ^2/NDF :1599621.6/23

Right Out: 1.586+/-0.000 χ^2/NDF : 16062766.8/34

Left In: 1.802+/-0.000 χ^2/NDF :1921298.2/22

Left: 1.787+/-0.000 χ^2/NDF : 3525124.6/46

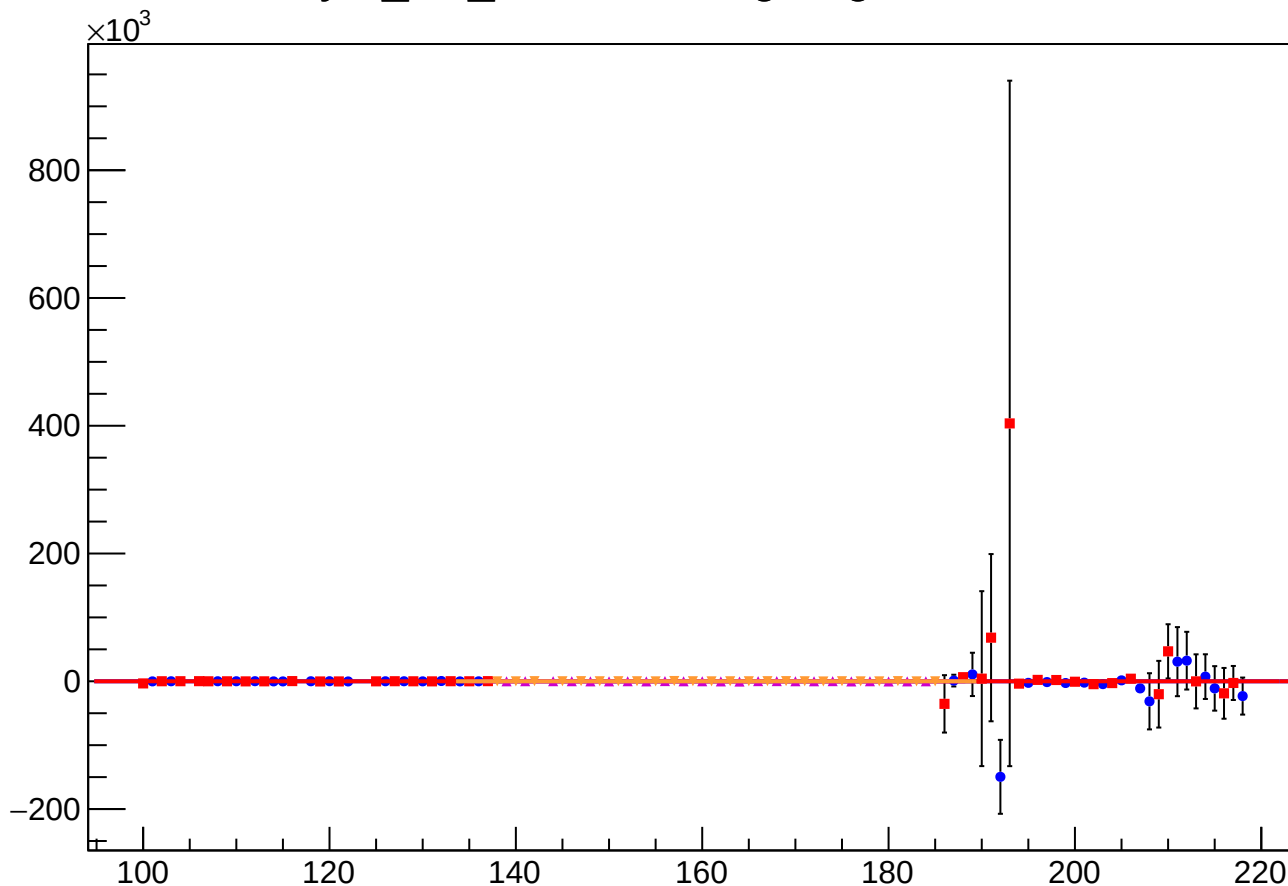
Right: 1.516+/-0.000 χ^2/NDF : 32992734.6/66

In: 1.669+/-0.000 χ^2/NDF :19204939.1/54

Out: 1.706+/-0.000 χ^2/NDF :17769191.0/58

All: 1.687+/-0.000 χ^2/NDF : 36983719.9/113

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.097 ± 36.771 χ^2/NDF : 33.9/31

Left Out: 12.948 ± 26.268 χ^2/NDF : 35.7/23

Right Out: 1.599 ± 36.757 χ^2/NDF : 20.5/34

Left In: 25.312 ± 26.351 χ^2/NDF : 35.7/22

Left: 19.110 ± 18.604 χ^2/NDF : 71.6/46

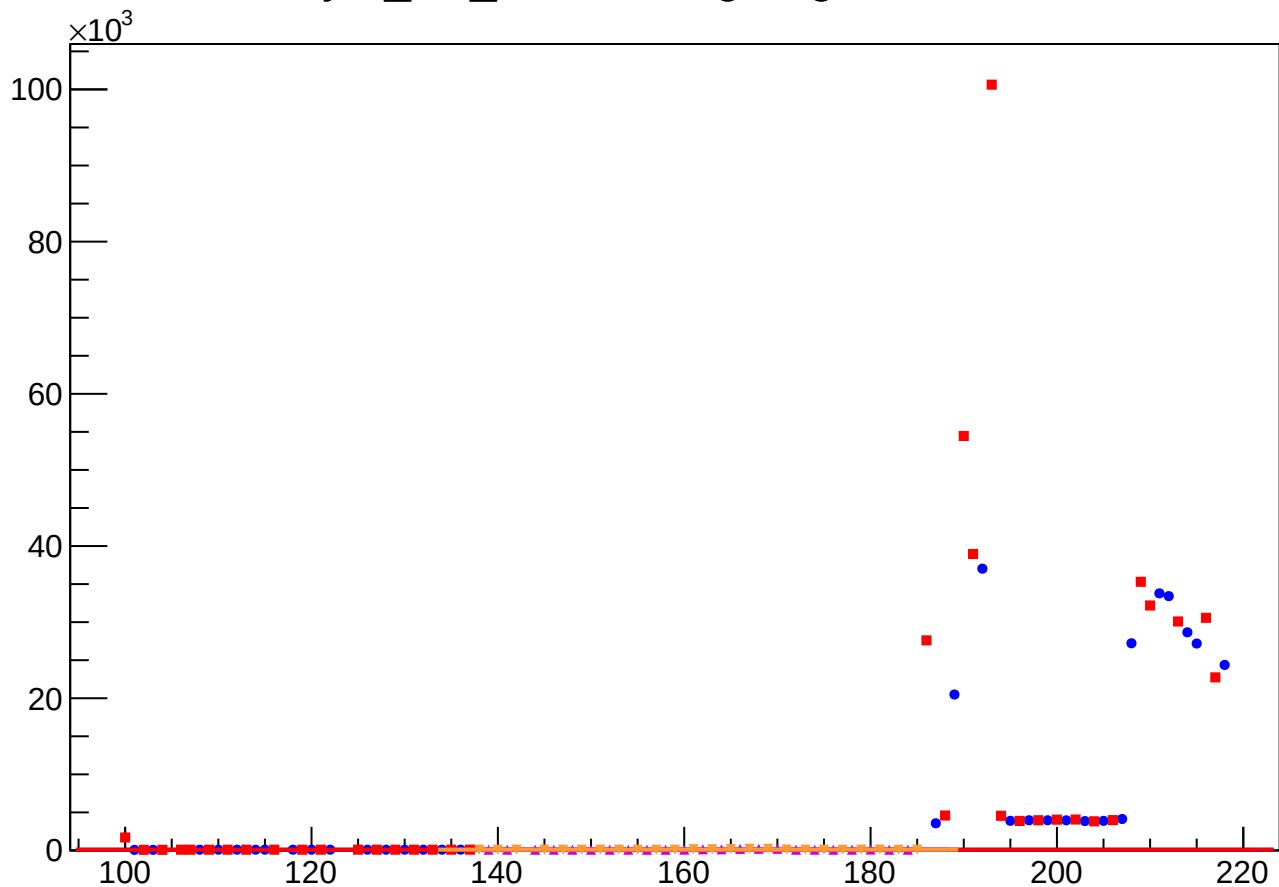
Right: -0.248 ± 25.996 χ^2/NDF : 54.4/66

In: 16.012 ± 21.419 χ^2/NDF : 70.0/54

Out: 9.111 ± 21.372 χ^2/NDF : 56.3/58

All: 12.554 ± 15.129 χ^2/NDF : 126.3/113

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.218 $\pm$ 0.026 χ^2 /NDF: 19410201.3/31

Left Out: 108.090 $\pm$ 0.019 χ^2 /NDF: 1436368.7/23

Right Out: 98.371 $\pm$ 0.026 χ^2 /NDF: 18175773.1/34

Left In: 107.703 $\pm$ 0.019 χ^2 /NDF: 1492338.5/22

Left: 107.897 $\pm$ 0.013 χ^2 /NDF: 2928923.7/46

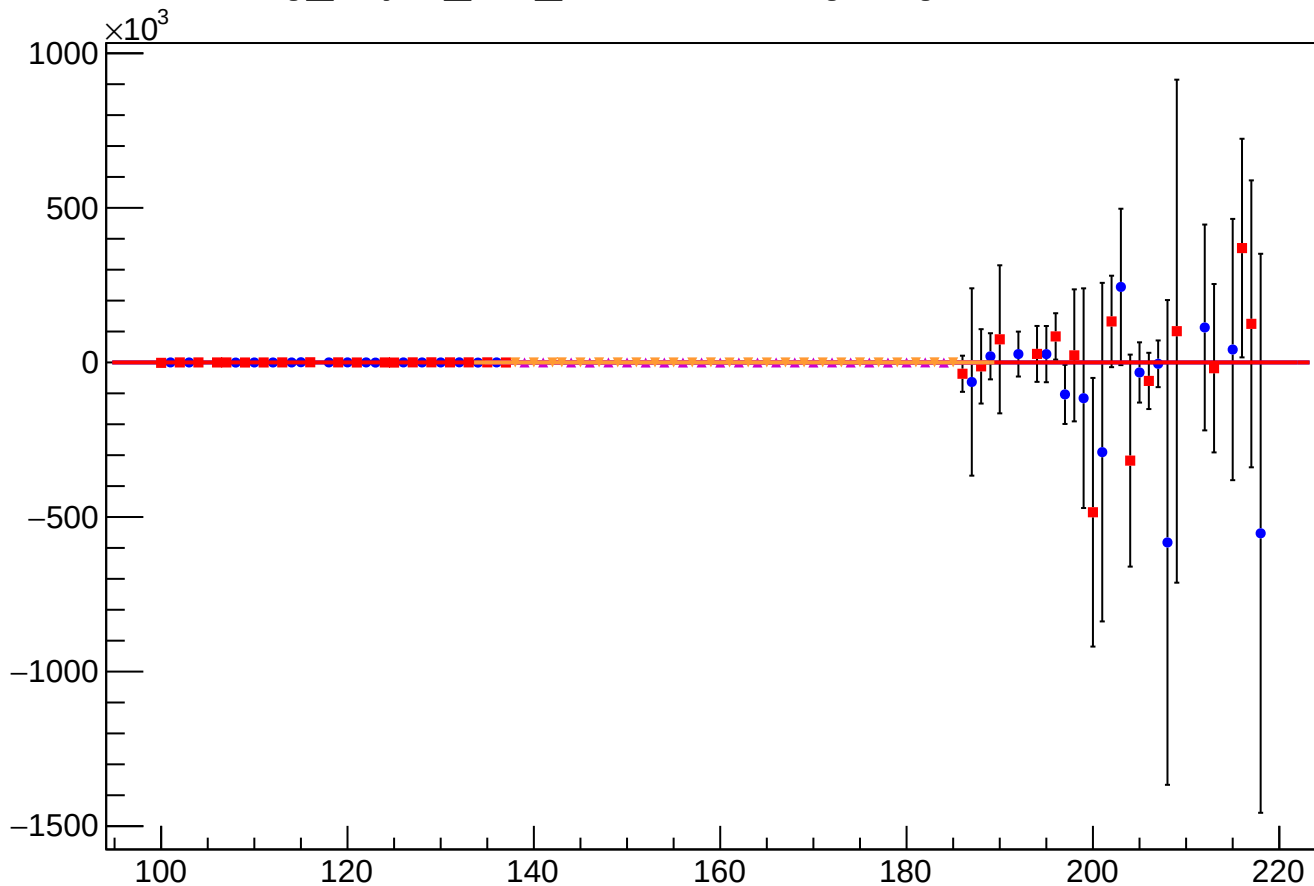
Right: 97.295 $\pm$ 0.018 χ^2 /NDF: 37589405.1/66

In: 103.806 $\pm$ 0.015 χ^2 /NDF: 21031447.7/54

Out: 104.805 $\pm$ 0.015 χ^2 /NDF: 19704695.6/58

All: 104.307 $\pm$ 0.011 χ^2 /NDF: 40738321.6/11

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.803 ± 46.841 $\chi^2/\text{NDF}: 18.4/30$

Left Out: -12.829 ± 32.063 $\chi^2/\text{NDF}: 12.0/24$

Right Out: 53.397 ± 47.775 $\chi^2/\text{NDF}: 21.8/32$

Left In: -65.335 ± 32.944 $\chi^2/\text{NDF}: 19.3/22$

Left: -38.371 ± 22.977 $\chi^2/\text{NDF}: 32.6/47$

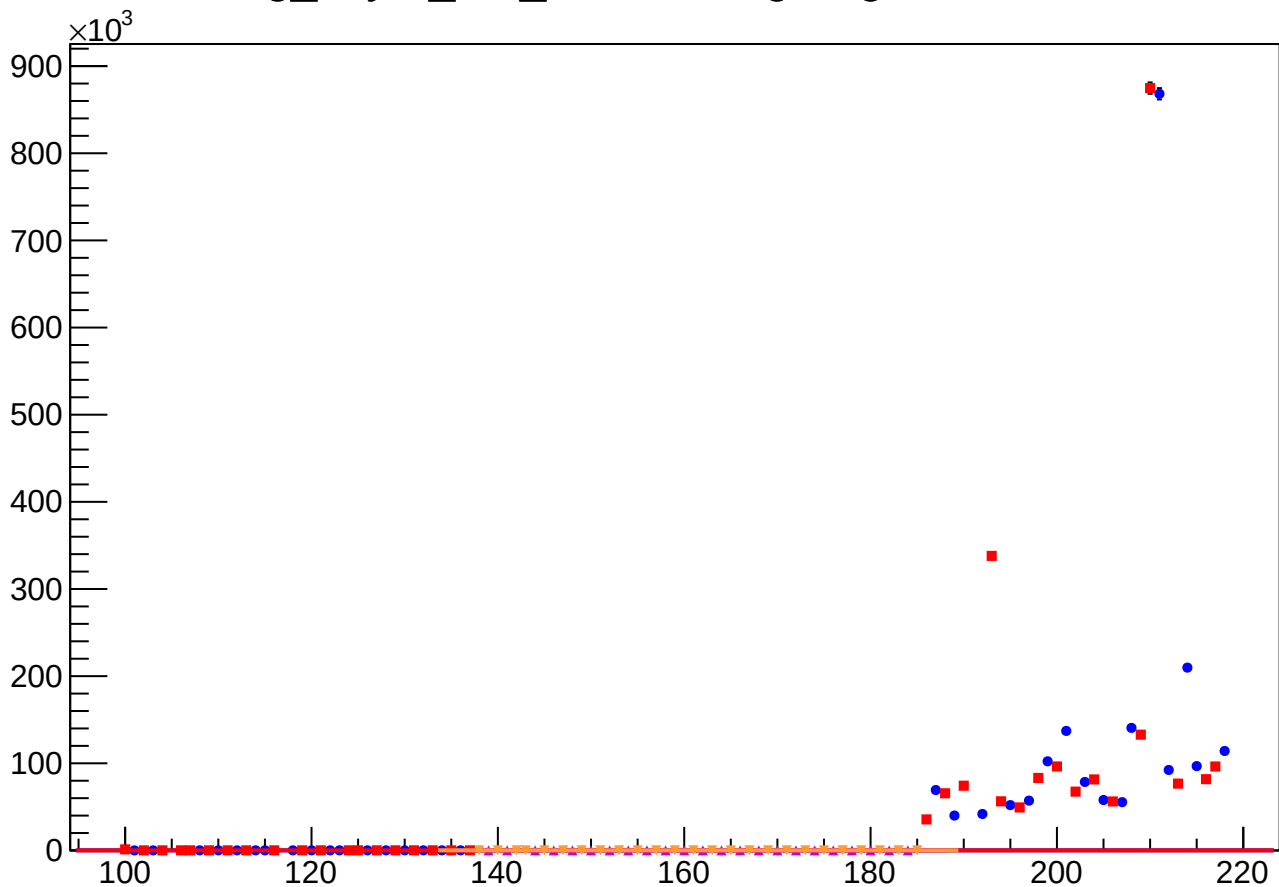
Right: 12.505 ± 33.447 $\chi^2/\text{NDF}: 41.7/63$

In: -52.583 ± 26.947 $\chi^2/\text{NDF}: 38.2/53$

Out: 7.737 ± 26.623 $\chi^2/\text{NDF}: 35.1/57$

All: -22.059 ± 18.939 $\chi^2/\text{NDF}: 75.8/111$

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.884 $\pm$ 0.033 χ^2 /NDF: 7081065.8/32

Left Out: 137.856 $\pm$ 0.023 χ^2 /NDF: 443.5/24

Right Out: 124.845 $\pm$ 0.034 χ^2 /NDF: 6773979.3/34

Left In: 137.804 $\pm$ 0.023 χ^2 /NDF: 460.3/22

Left: 137.831 $\pm$ 0.016 χ^2 /NDF: 906.3/47

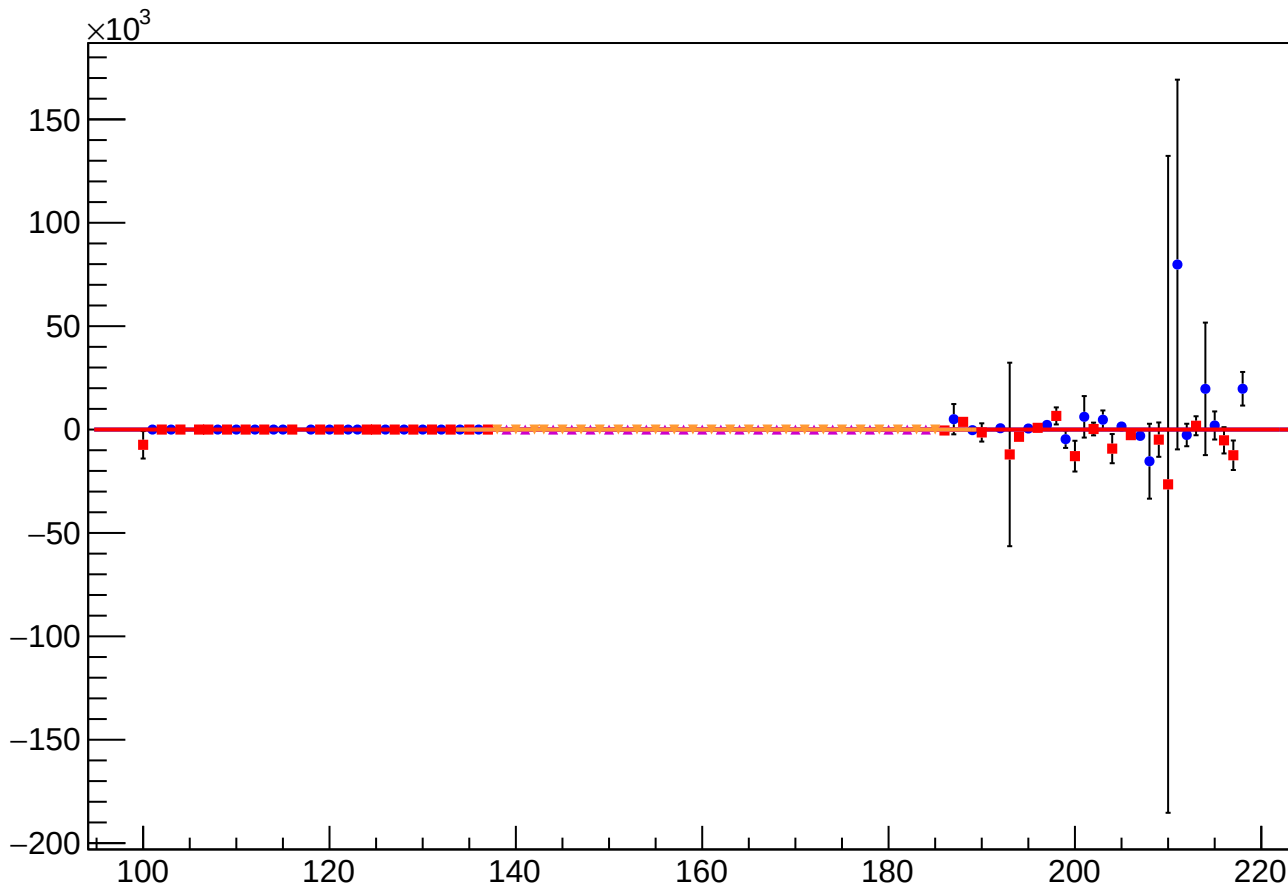
Right: 121.295 $\pm$ 0.024 χ^2 /NDF: 13876694.5/67

In: 131.212 $\pm$ 0.019 χ^2 /NDF: 7323546.5/55

Out: 133.816 $\pm$ 0.019 χ^2 /NDF: 6876709.5/59

All: 132.529 $\pm$ 0.013 χ^2 /NDF: 14209707.9/11

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 31.4/32

Left Out: 0.490 ± 0.572 χ^2/NDF : 29.0/24

Right Out: -0.639 ± 0.852 χ^2/NDF : 36.4/34

Left In: 0.290 ± 0.579 χ^2/NDF : 20.7/22

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

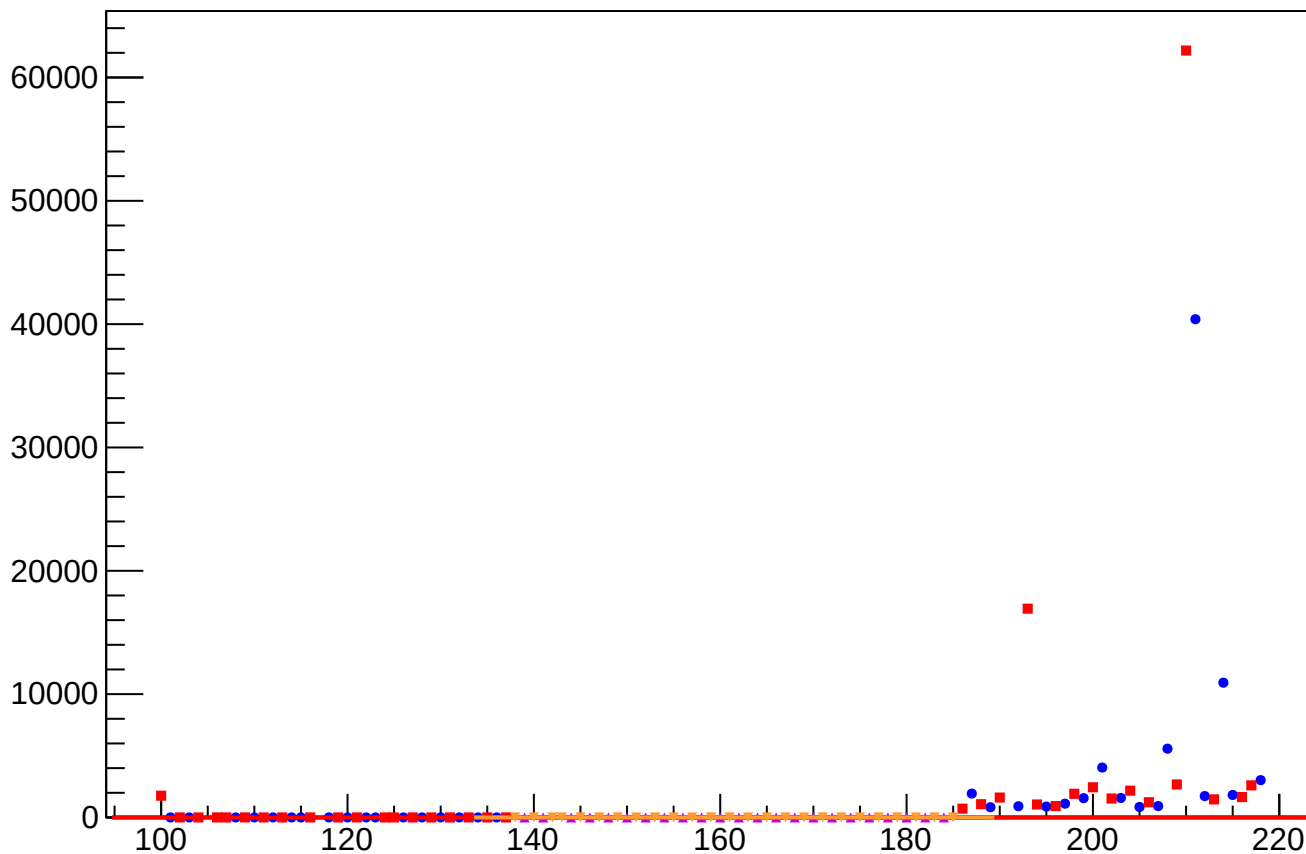
Right: -0.681 ± 0.587 χ^2/NDF : 67.8/67

In: -0.052 ± 0.471 χ^2/NDF : 53.1/55

Out: 0.139 ± 0.475 χ^2/NDF : 66.6/59

All: 0.043 ± 0.334 χ^2/NDF : 119.8/115

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867 $\pm$ 0.001 χ^2/NDF : 7083962.4/32

Left Out: 2.262 $\pm$ 0.000 χ^2/NDF : 374973.2/24

Right Out: 2.065 $\pm$ 0.001 χ^2/NDF : 7191430.3/34

Left In: 2.193 $\pm$ 0.000 χ^2/NDF : 510890.7/22

Left: 2.228 $\pm$ 0.000 χ^2/NDF : 900243.0/47

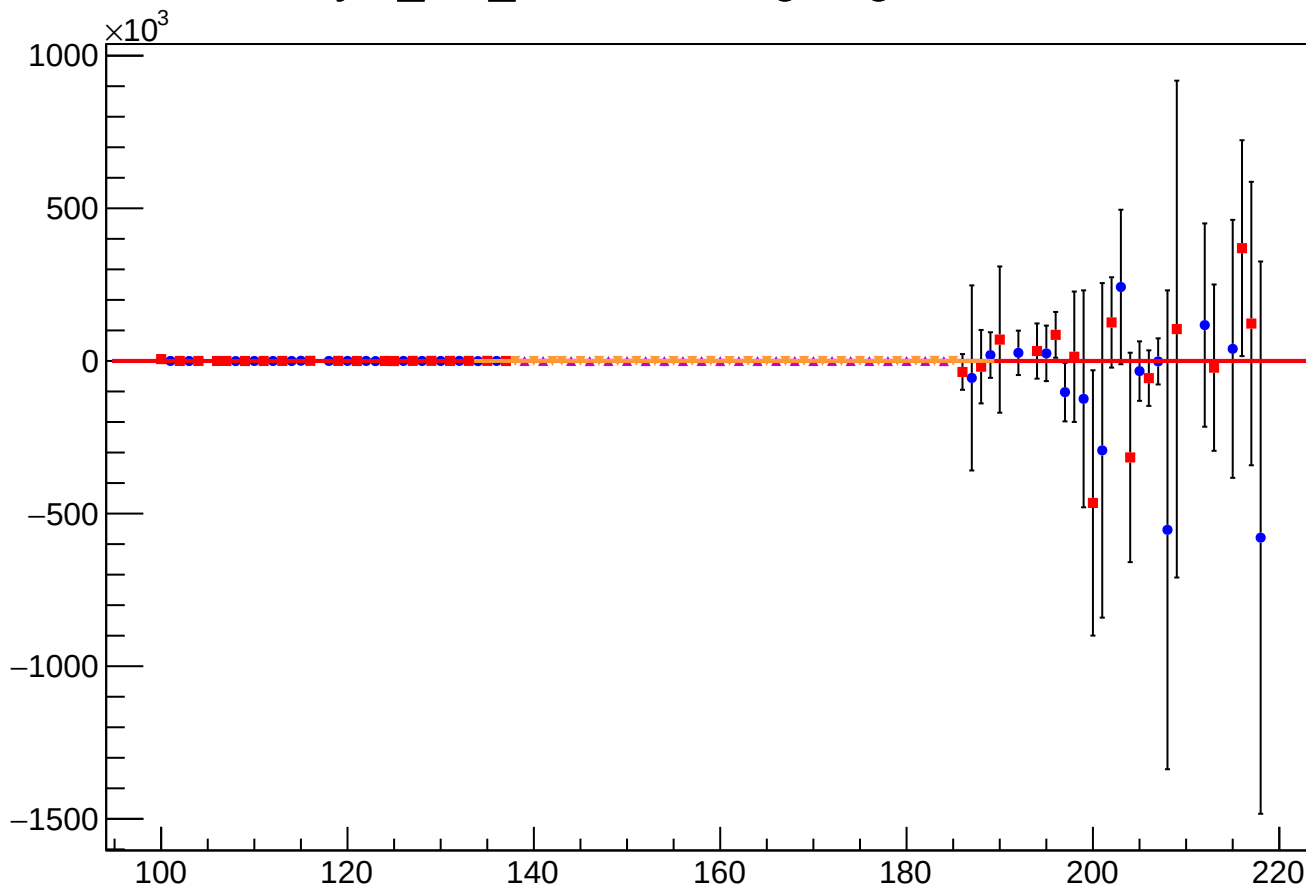
Right: 1.961 $\pm$ 0.000 χ^2/NDF : 14332274.1/67

In: 2.083 $\pm$ 0.000 χ^2/NDF : 7809098.1/55

Out: 2.201 $\pm$ 0.000 χ^2/NDF : 7639754.8/59

All: 2.141 $\pm$ 0.000 χ^2/NDF : 15511227.1/115

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.065 ± 46.854 χ^2/NDF : 18.4/30

Left Out: -13.383 ± 32.072 χ^2/NDF : 11.8/24

Right Out: 54.299 ± 47.789 χ^2/NDF : 22.3/32

Left In: -65.231 ± 32.953 χ^2/NDF : 19.4/22

Left: -38.605 ± 22.983 χ^2/NDF : 32.4/47

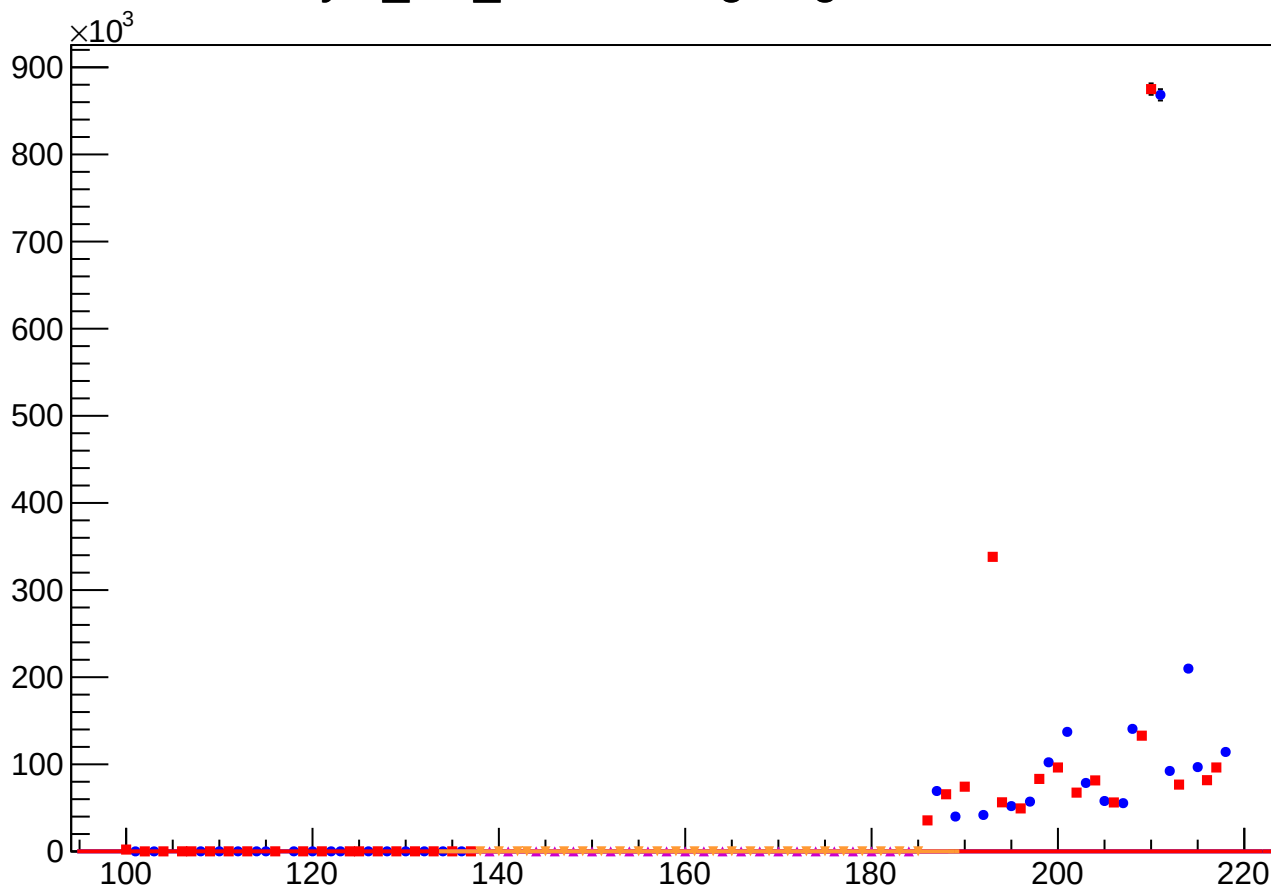
Right: 13.833 ± 33.456 χ^2/NDF : 42.1/63

In: -51.938 ± 26.954 χ^2/NDF : 38.3/53

Out: 7.634 ± 26.631 χ^2/NDF : 35.5/57

All: -21.792 ± 18.944 χ^2/NDF : 76.2/111

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.915 $\pm$ 0.033 χ^2 /NDF: 7081234.5/32

Left Out: 137.895 $\pm$ 0.023 χ^2 /NDF: 440.9/24

Right Out: 124.834 $\pm$ 0.034 χ^2 /NDF: 6784651.9/34

Left In: 137.843 $\pm$ 0.023 χ^2 /NDF: 457.2/22

Left: 137.870 $\pm$ 0.016 χ^2 /NDF: 900.6/47

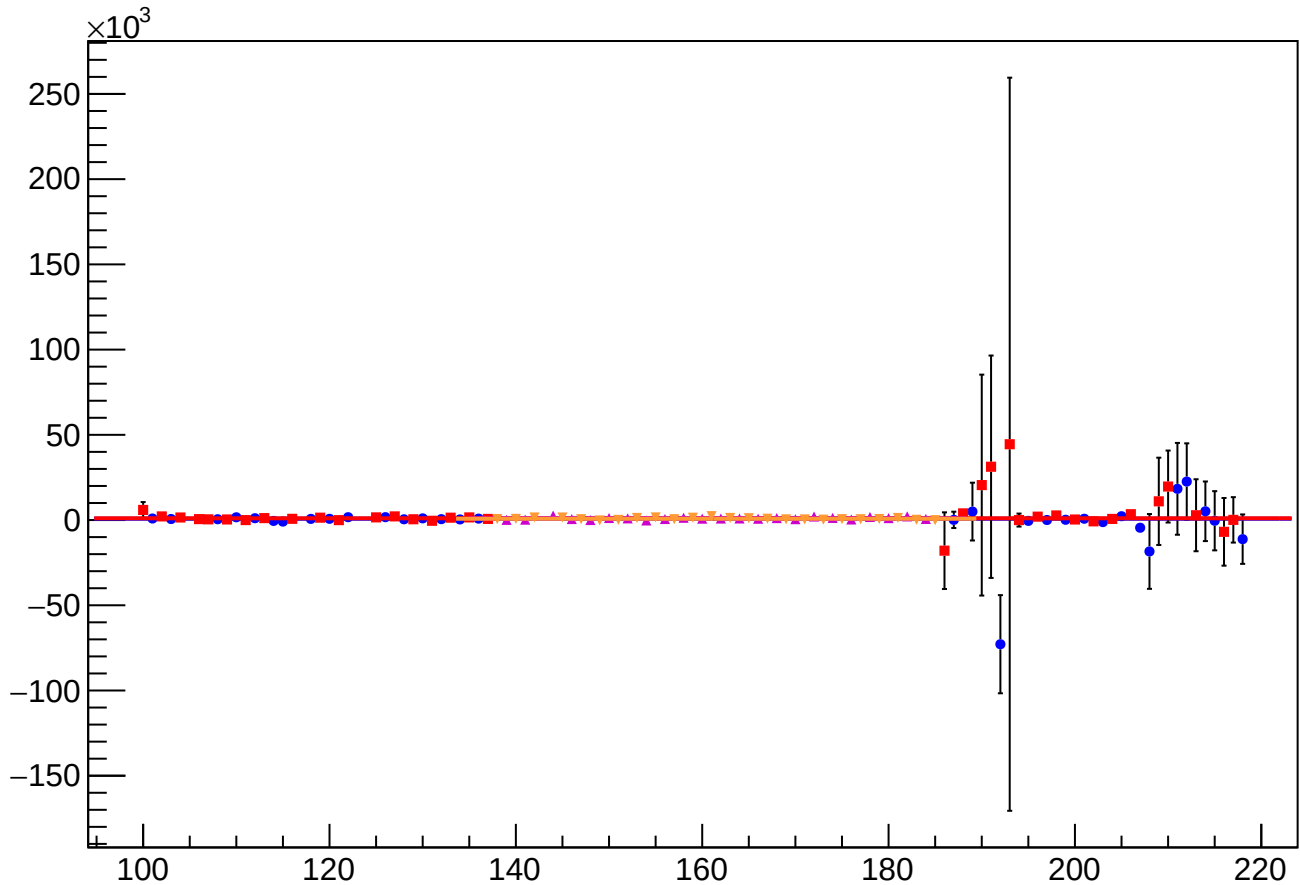
Right: 121.306 $\pm$ 0.024 χ^2 /NDF: 13887258.0/67

In: 131.248 $\pm$ 0.019 χ^2 /NDF: 7323750.7/55

Out: 133.839 $\pm$ 0.019 χ^2 /NDF: 6888101.9/59

All: 132.559 $\pm$ 0.013 χ^2 /NDF: 14221204.3/11

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 766.778 $\pm$ 209.802 χ^2 /NDF: 21.7/31

Left Out: 784.371 $\pm$ 134.054 χ^2 /NDF:19.2/23

Right Out: 1038.604 $\pm$ 207.229 χ^2 /NDF: 19.8/34

Left In: 974.402 $\pm$ 134.932 χ^2 /NDF:27.4/22

Left: 878.766 $\pm$ 95.099 χ^2 /NDF: 47.6/46

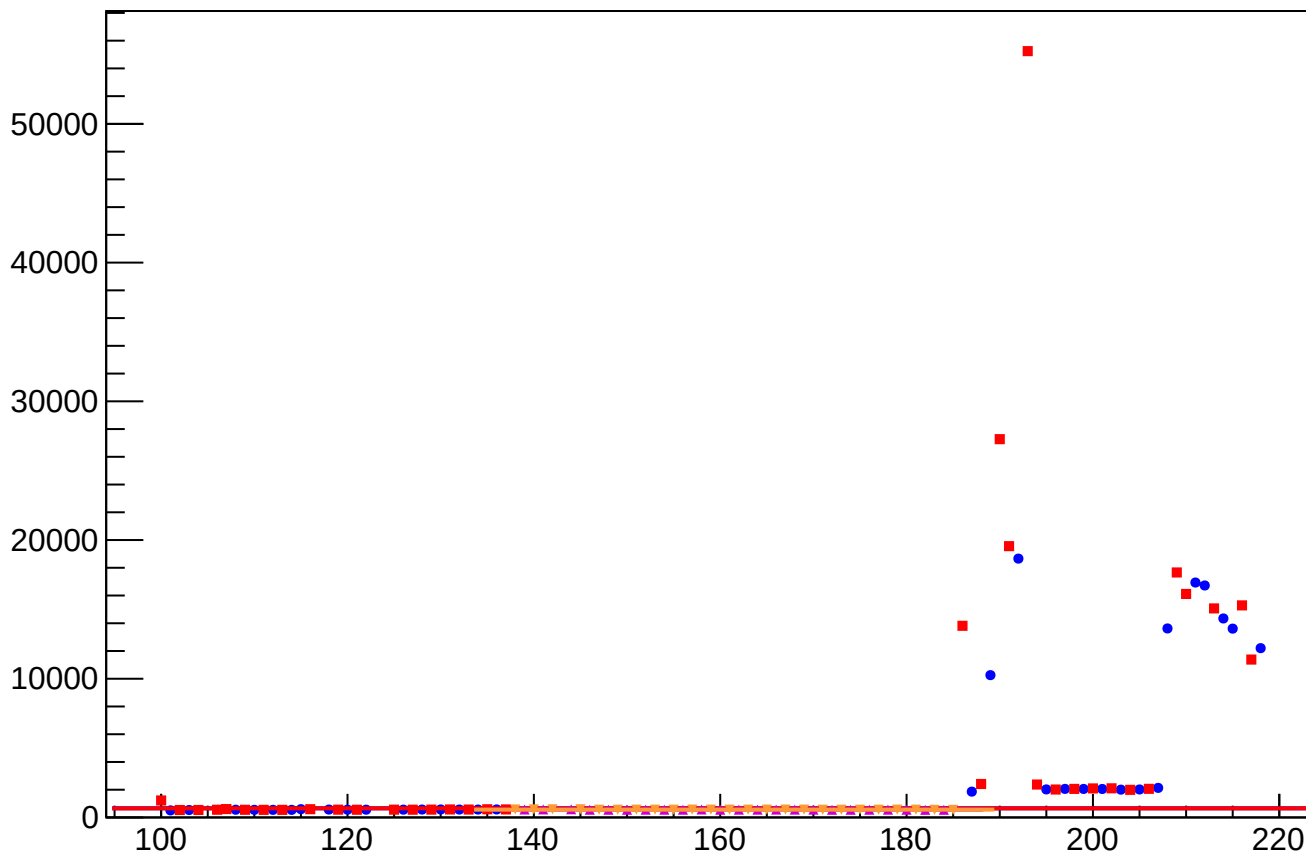
Right: 904.368 $\pm$ 147.434 χ^2 /NDF: 42.4/66

In: 913.651 $\pm$ 113.487 χ^2 /NDF:49.9/54

Out: 859.373 $\pm$ 112.556 χ^2 /NDF:40.1/58

All: 886.288 $\pm$ 79.916 χ^2 /NDF: 90.0/113

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 660.501+/-0.148 χ^2/NDF : 13304545.7/31

Left Out: 564.143+/-0.095 χ^2/NDF : 9594.1/23

Right Out: 657.225+/-0.147 χ^2/NDF : 12461363.9/34

Left In: 564.383+/-0.095 χ^2/NDF : 9209.5/22

Left: 564.262+/-0.067 χ^2/NDF : 18806.8/46

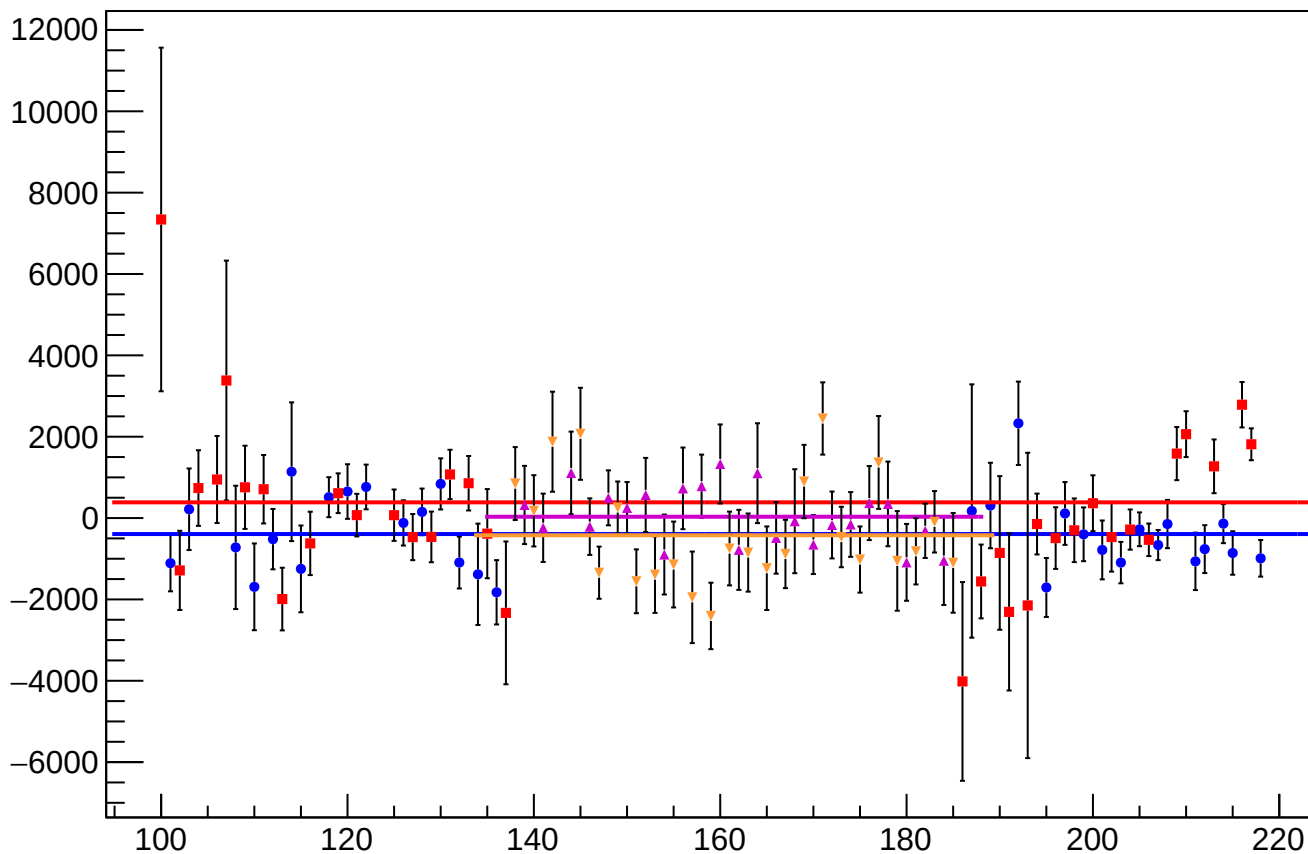
Right: 658.843+/-0.104 χ^2/NDF : 25766156.4/66

In: 592.507+/-0.080 χ^2/NDF : 13610706.0/54

Out: 591.603+/-0.080 χ^2/NDF : 12755429.0/58

All: 592.052+/-0.057 χ^2/NDF : 26366198.9/11

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -392.934 ± 113.399 $\chi^2/\text{NDF}: 43.1/31$

Left Out: -422.681 ± 180.610 $\chi^2/\text{NDF}: 43.2/23$

Right Out: 386.284 ± 119.838 $\chi^2/\text{NDF}: 95.5/34$

Left In: 32.411 ± 179.430 $\chi^2/\text{NDF}: 12.2/22$

Left: -193.644 ± 127.291 $\chi^2/\text{NDF}: 58.6/46$

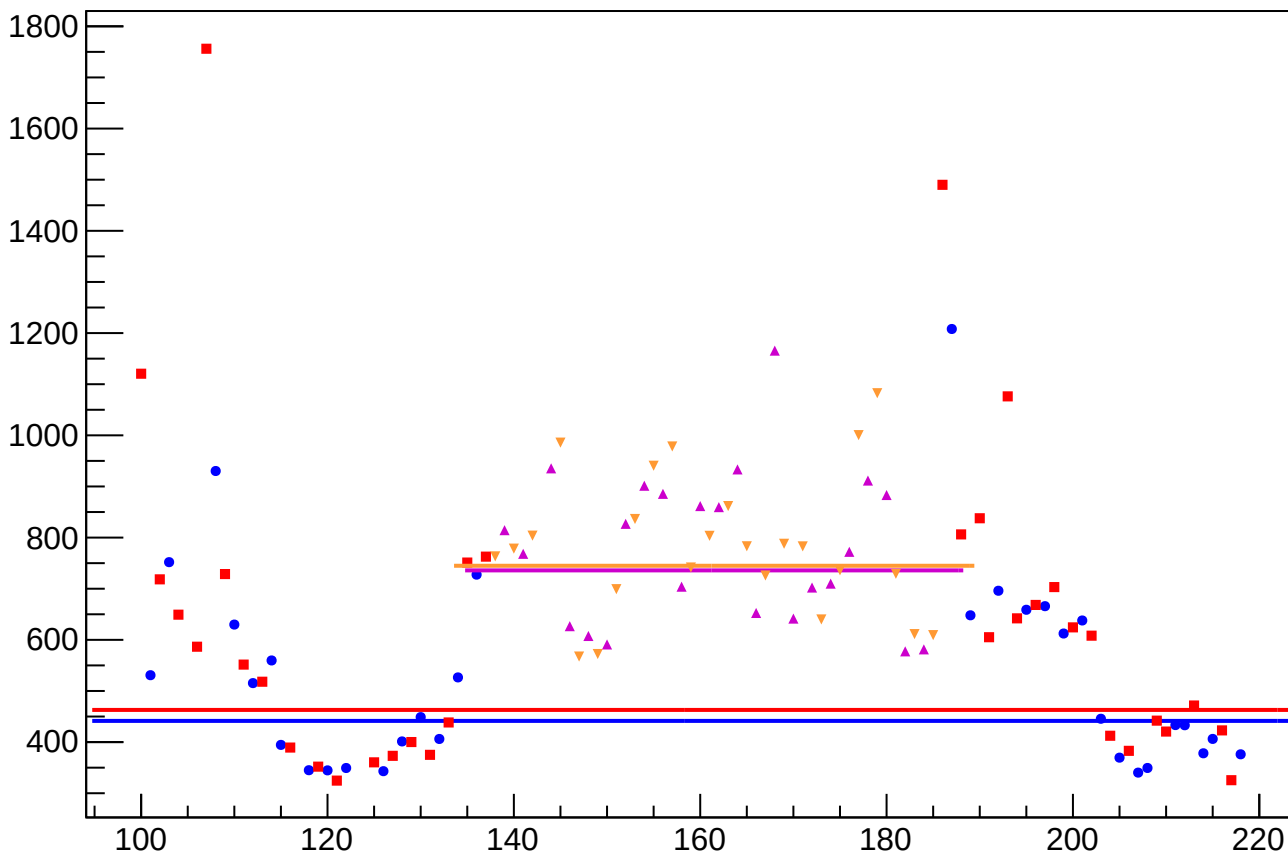
Right: -24.821 ± 82.367 $\chi^2/\text{NDF}: 160.9/66$

In: -271.534 ± 95.859 $\chi^2/\text{NDF}: 59.3/54$

Out: 139.000 ± 99.856 $\chi^2/\text{NDF}: 152.6/58$

All: -74.647 ± 69.153 $\chi^2/\text{NDF}: 220.7/113$

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 441.472+/-0.080 χ^2/NDF : 2348477.8/31

Left Out: 744.909+/-0.128 χ^2/NDF :1008847.7/23

Right Out: 462.943+/-0.085 χ^2/NDF : 3243920.9/34

Left In: 735.850+/-0.127 χ^2/NDF :1105405.5/22

Left: 740.350+/-0.090 χ^2/NDF : 2116785.5/46

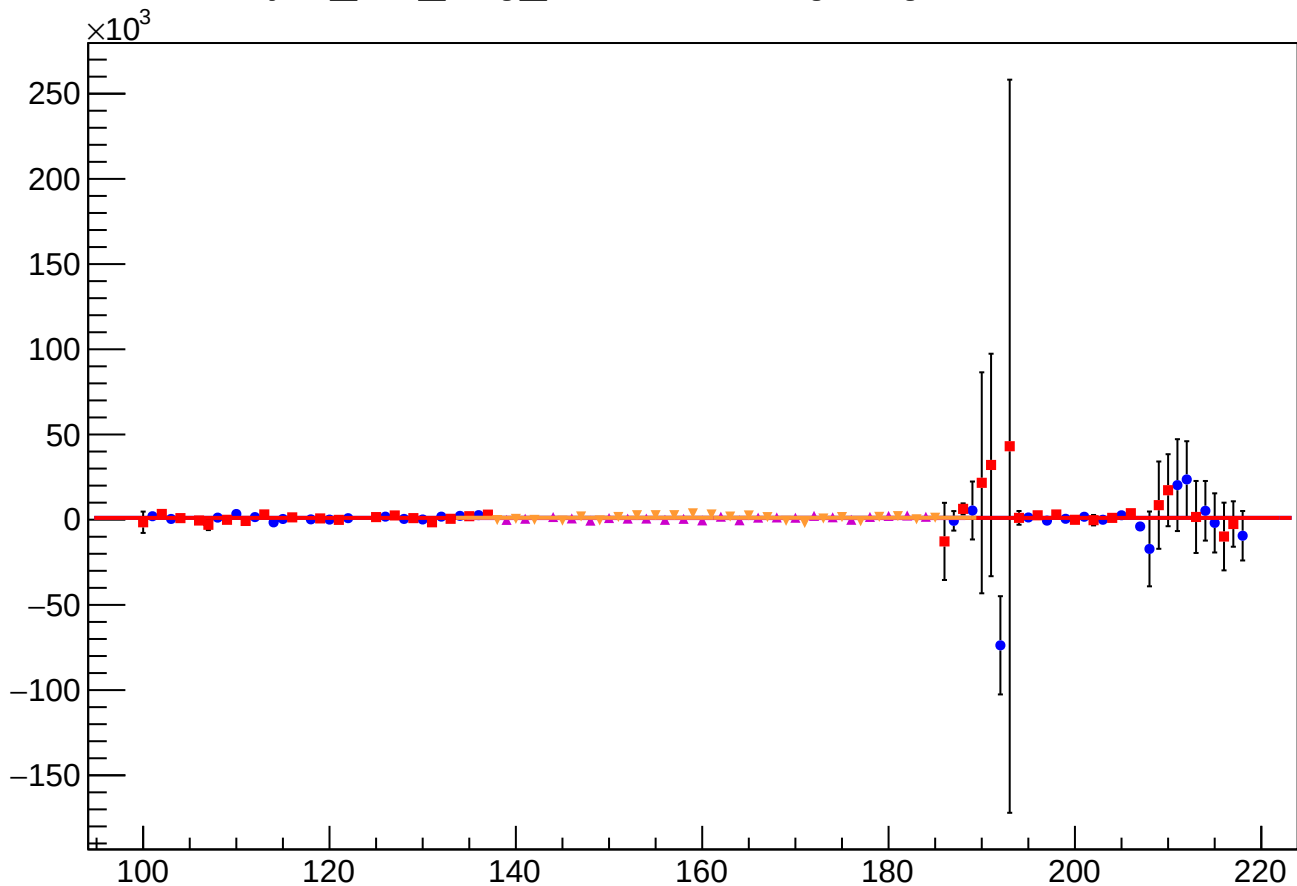
Right: 451.615+/-0.058 χ^2/NDF : 5626271.2/66

In: 525.492+/-0.068 χ^2/NDF :7300716.3/54

Out: 549.134+/-0.071 χ^2/NDF :7637324.7/58

All: 536.830+/-0.049 χ^2/NDF : 14996387.0/11

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1090.859 $\pm$ 280.466 χ^2 /NDF: 27.4/31

Left Out: 1137.936 $\pm$ 228.834 χ^2 /NDF: 38.9/23

Right Out: 1059.243 $\pm$ 280.259 χ^2 /NDF: 30.8/34

Left In: 941.702 $\pm$ 228.324 χ^2 /NDF: 14.8/22

Left: 1039.600 $\pm$ 161.629 χ^2 /NDF: 54.0/46

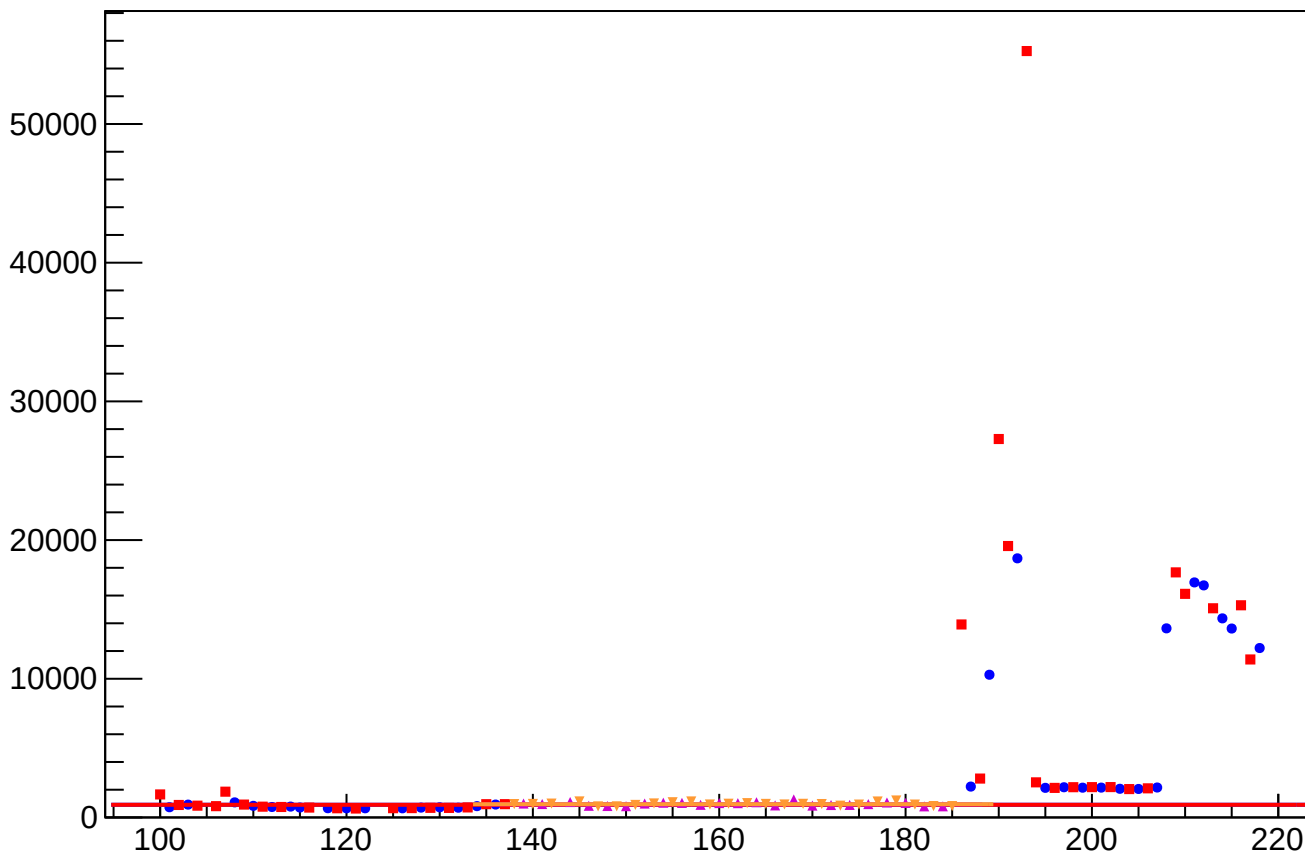
Right: 1075.040 $\pm$ 198.246 χ^2 /NDF: 58.3/66

In: 1001.153 $\pm$ 177.068 χ^2 /NDF: 42.4/54

Out: 1106.458 $\pm$ 177.253 χ^2 /NDF: 69.8/58

All: 1053.751 $\pm$ 125.271 χ^2 /NDF: 112.3/113

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 914.576+/-0.198 χ^2/NDF : 11845587.9/31

Left Out: 954.333+/-0.162 χ^2/NDF : 460147.5/23

Right Out: 912.461+/-0.198 χ^2/NDF : 11427418.2/34

Left In: 946.573+/-0.161 χ^2/NDF : 501366.9/22

Left: 950.444+/-0.114 χ^2/NDF : 962667.1/46

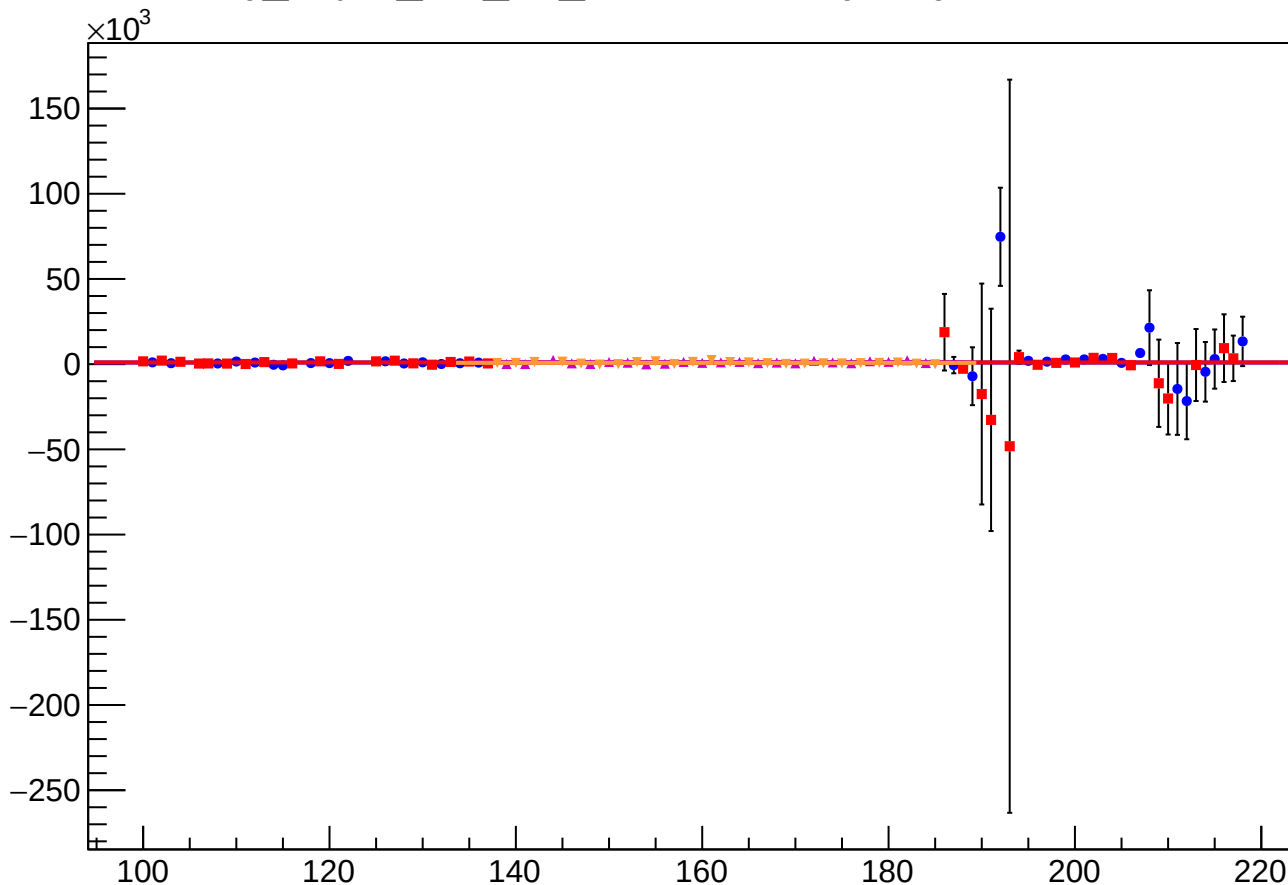
Right: 913.518+/-0.140 χ^2/NDF : 23273063.0/66

In: 933.820+/-0.125 χ^2/NDF : 12362609.6/54

Out: 937.584+/-0.125 χ^2/NDF : 11914351.9/58

All: 935.700+/-0.089 χ^2/NDF : 24277413.1/11

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 959.679 $\pm$ 209.670 χ^2 /NDF: 24.5/31

Left Out: 757.642 $\pm$ 133.942 χ^2 /NDF:21.0/23

Right Out: 1016.572 $\pm$ 202.618 χ^2 /NDF: 20.3/34

Left In: 958.517 $\pm$ 134.824 χ^2 /NDF:26.8/22

Left: 857.420 $\pm$ 95.022 χ^2 /NDF: 49.0/46

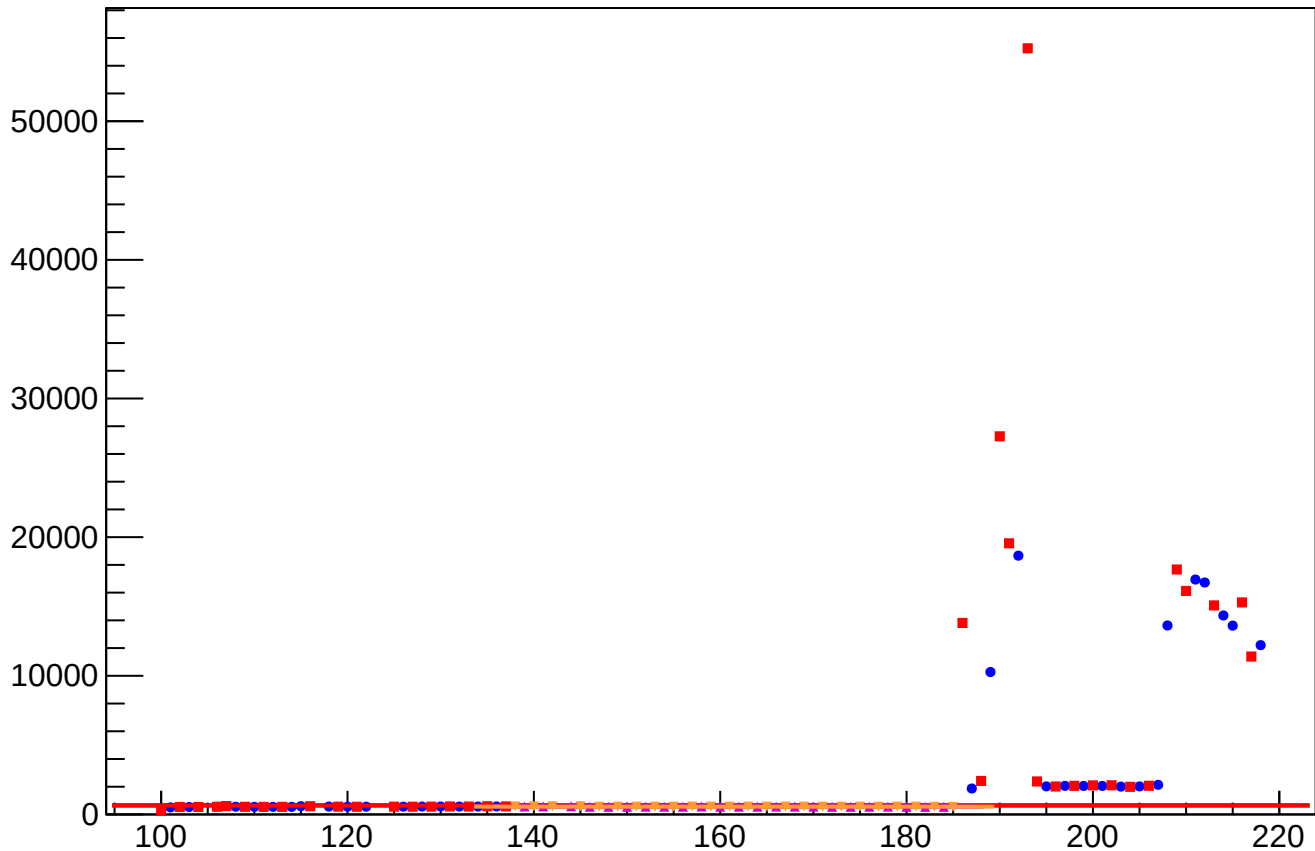
Right: 989.099 $\pm$ 145.702 χ^2 /NDF: 44.8/66

In: 958.857 $\pm$ 113.402 χ^2 /NDF:51.4/54

Out: 836.384 $\pm$ 111.735 χ^2 /NDF:42.4/58

All: 896.713 $\pm$ 79.592 χ^2 /NDF: 94.4/113

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 659.863+/-0.148 χ^2/NDF : 13319132.4/31

Left Out: 563.675+/-0.095 χ^2/NDF :9542.9/23

Right Out: 637.545+/-0.143 χ^2/NDF : 12778330.9/34

Left In: 563.934+/-0.095 χ^2/NDF :9204.6/22

Left: 563.803+/-0.067 χ^2/NDF : 18751.3/46

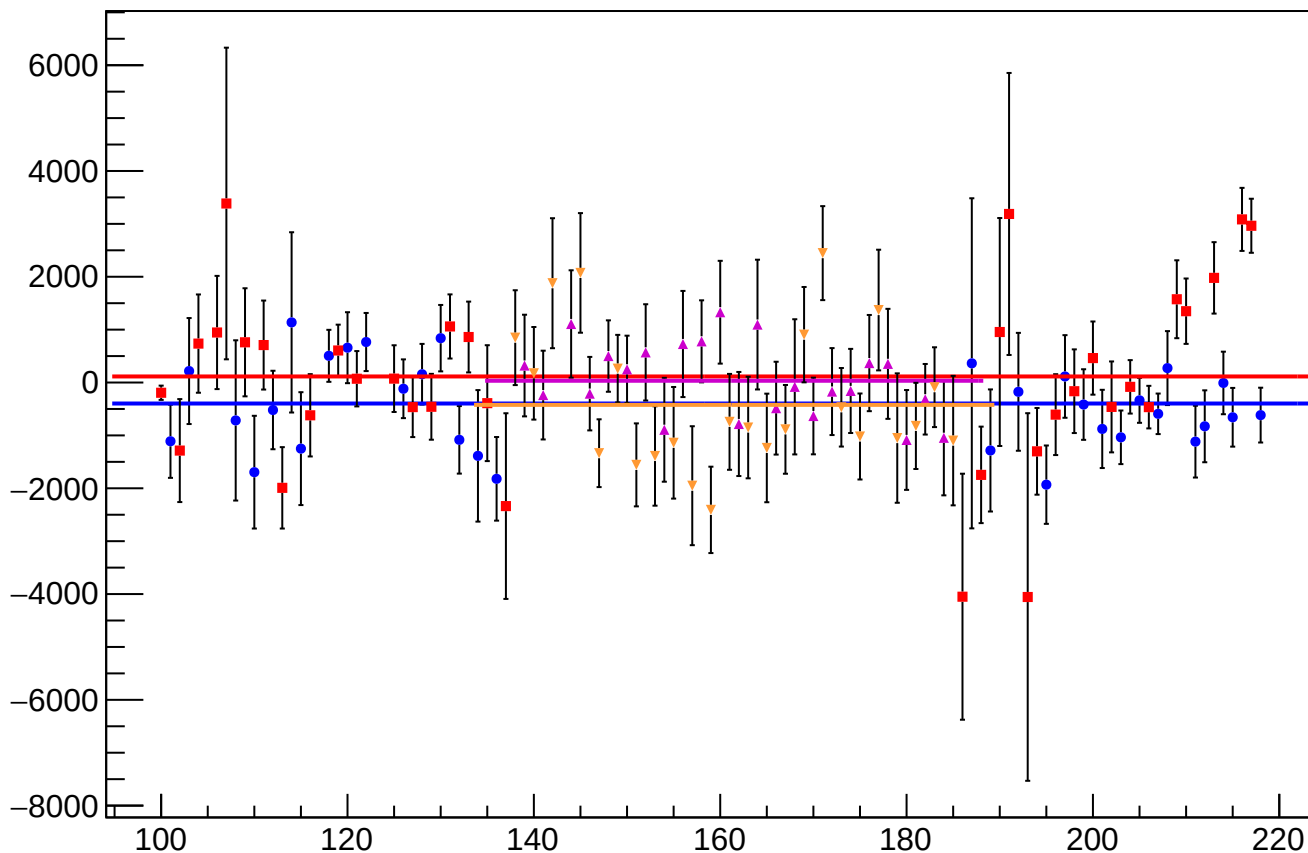
Right: 648.323+/-0.103 χ^2/NDF : 26109181.3/66

In: 591.996+/-0.080 χ^2/NDF :13624525.7/54

Out: 586.139+/-0.079 χ^2/NDF :12972869.3/58

All: 589.024+/-0.056 χ^2/NDF : 26600102.4/11

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -396.977 ± 117.647 $\chi^2/\text{NDF}: 35.8/31$

Left Out: -422.324 ± 180.531 $\chi^2/\text{NDF}: 43.3/23$

Right Out: 114.644 ± 91.509 $\chi^2/\text{NDF}: 116.2/34$

Left In: 33.325 ± 179.355 $\chi^2/\text{NDF}: 12.1/22$

Left: -193.010 ± 127.237 $\chi^2/\text{NDF}: 58.6/46$

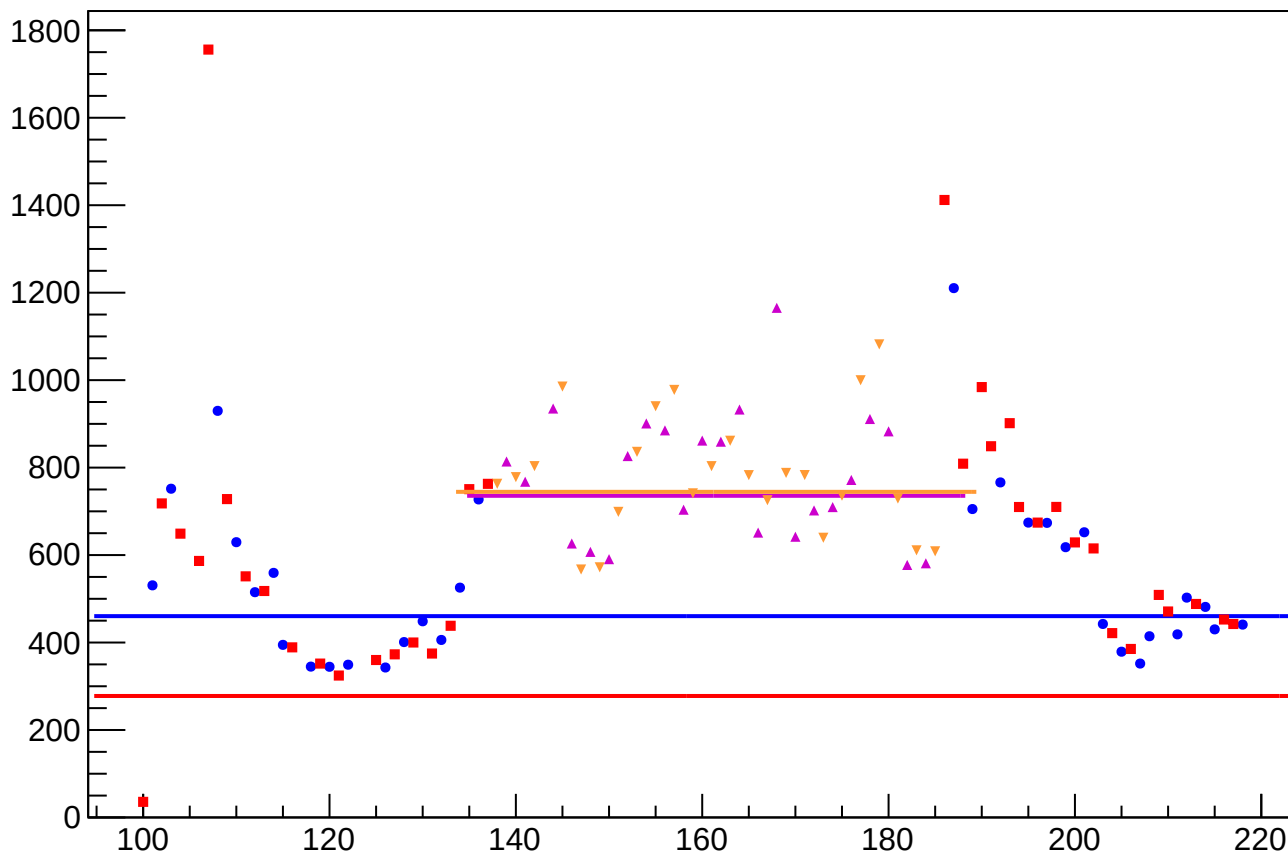
Right: -78.213 ± 72.231 $\chi^2/\text{NDF}: 163.9/66$

In: -267.530 ± 98.372 $\chi^2/\text{NDF}: 52.0/54$

Out: 4.881 ± 81.622 $\chi^2/\text{NDF}: 166.6/58$

All: -106.192 ± 62.815 $\chi^2/\text{NDF}: 223.1/113$

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 460.346+/-0.083 χ^2/NDF : 2257336.4/31

Left Out: 744.597+/-0.128 χ^2/NDF : 1009604.0/23

Right Out: 277.783+/-0.065 χ^2/NDF : 14899457.9/34

Left In: 735.543+/-0.127 χ^2/NDF : 1105222.3/22

Left: 740.040+/-0.090 χ^2/NDF : 2117358.1/46

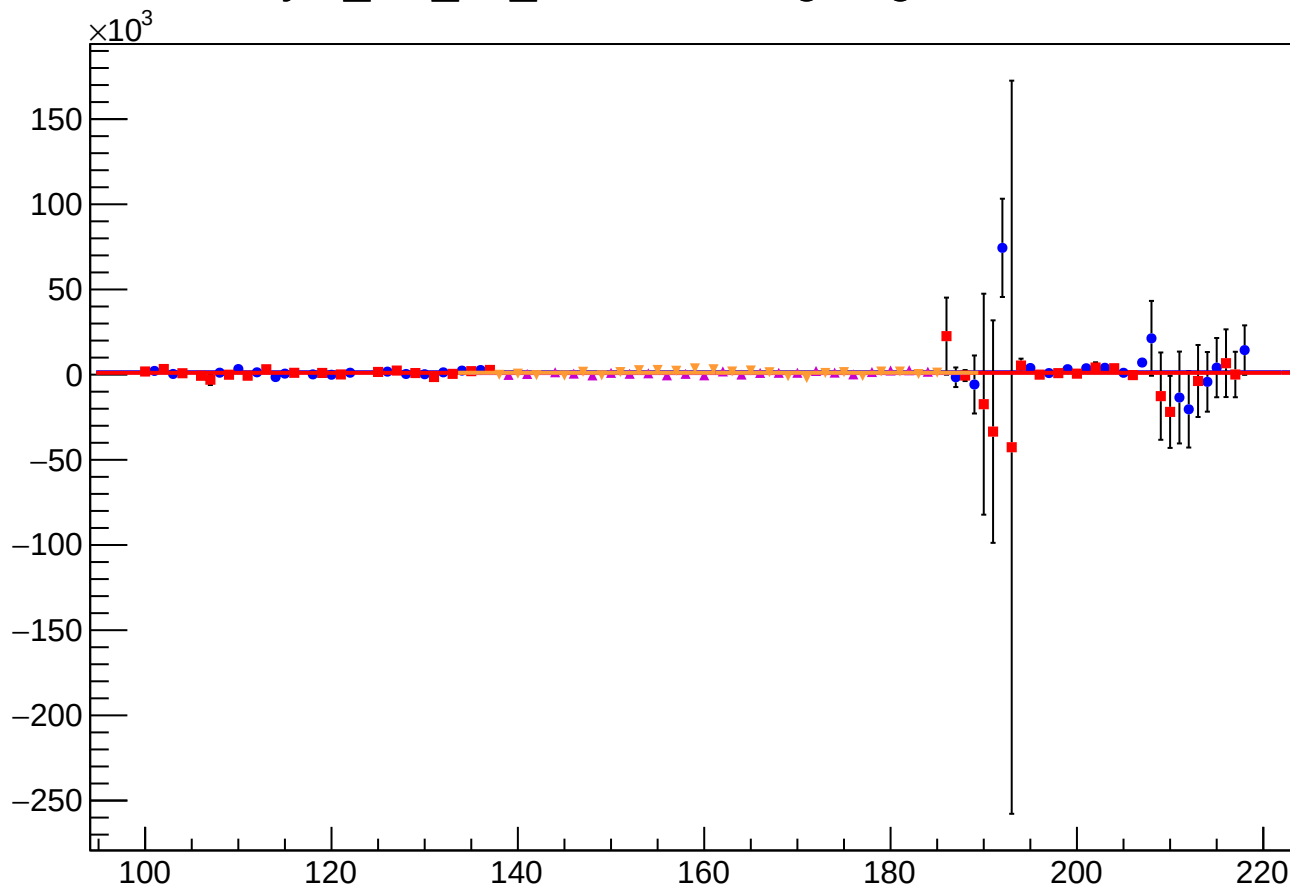
Right: 346.601+/-0.051 χ^2/NDF : 20157486.8/66

In: 543.133+/-0.070 χ^2/NDF : 6654657.3/54

Out: 373.205+/-0.058 χ^2/NDF : 26548063.1/58

All: 442.491+/-0.044 χ^2/NDF : 36737202.7/11

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1411.663 ± 280.370 $\chi^2/\text{NDF}: 31.9/31$

Left Out: 1105.144 ± 228.700 $\chi^2/\text{NDF}: 38.3/23$

Right Out: 1070.173 ± 269.375 $\chi^2/\text{NDF}: 29.6/34$

Left In: 926.281 ± 228.196 $\chi^2/\text{NDF}: 15.1/22$

Left: 1015.515 ± 161.537 $\chi^2/\text{NDF}: 53.7/46$

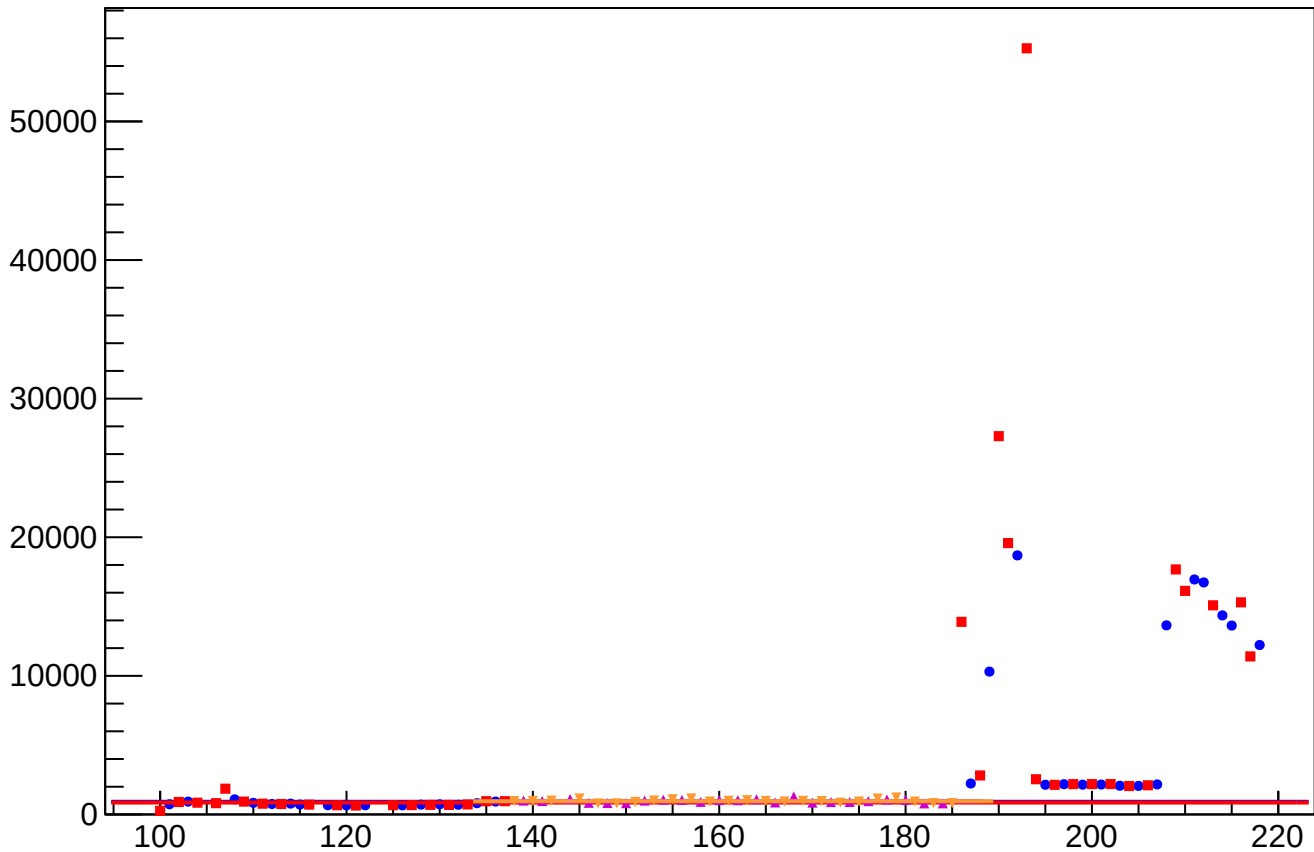
Right: 1234.091 ± 194.248 $\chi^2/\text{NDF}: 62.3/66$

In: 1119.695 ± 176.984 $\chi^2/\text{NDF}: 48.8/54$

Out: 1090.496 ± 174.341 $\chi^2/\text{NDF}: 67.9/58$

All: 1104.876 ± 124.202 $\chi^2/\text{NDF}: 116.7/113$

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 913.822+/-0.198 χ^2/NDF : 11867206.0/31

Left Out: 953.781+/-0.162 χ^2/NDF : 460211.0/23

Right Out: 859.731+/-0.190 χ^2/NDF : 12257889.0/34

Left In: 946.041+/-0.161 χ^2/NDF : 501442.7/22

Left: 949.902+/-0.114 χ^2/NDF : 962801.6/46

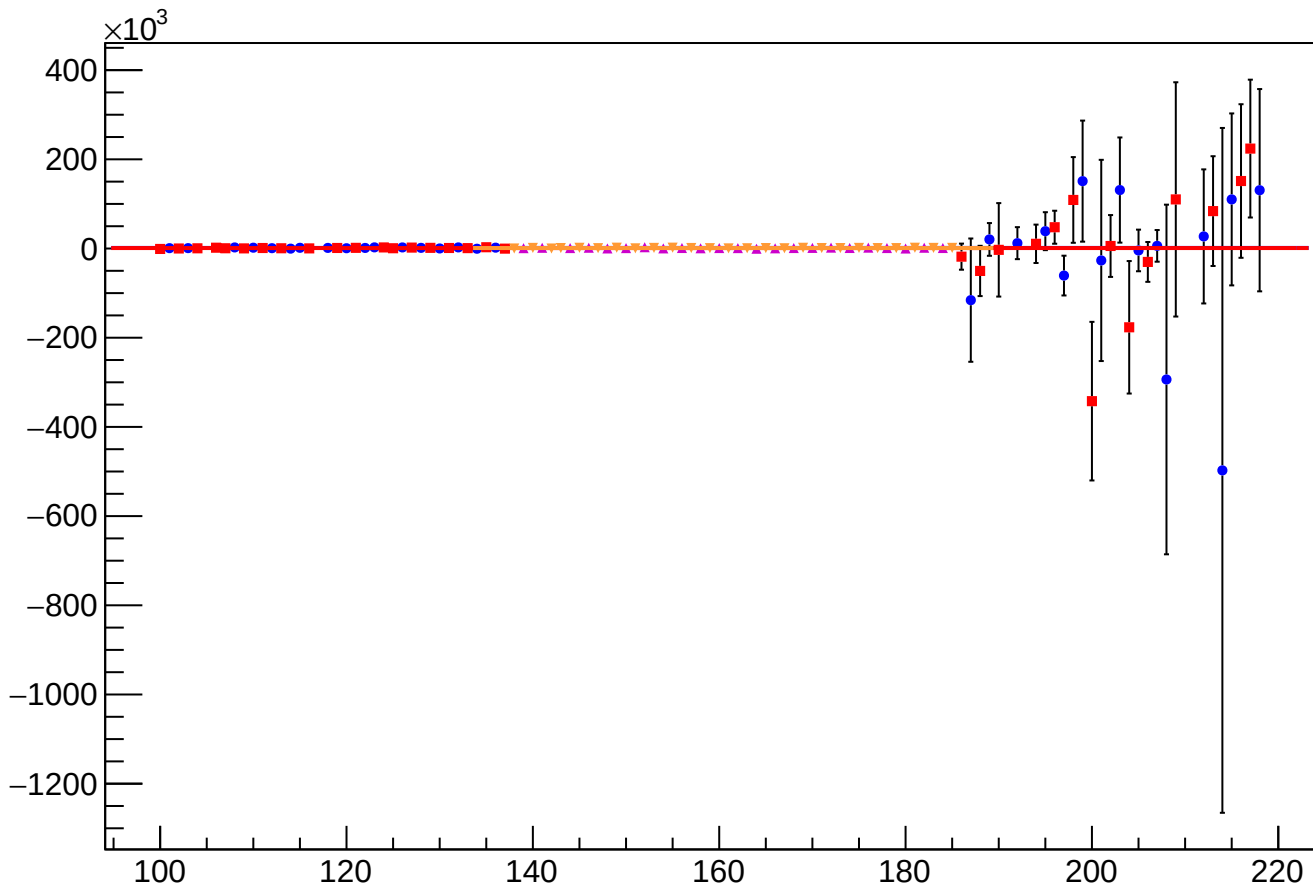
Right: 885.695+/-0.137 χ^2/NDF : 24163805.3/66

In: 933.202+/-0.125 χ^2/NDF : 12384535.1/54

Out: 914.385+/-0.123 χ^2/NDF : 12859778.8/58

All: 923.652+/-0.088 χ^2/NDF : 25255788.0/11

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.376 $\pm$ 218.578 χ^2 /NDF: 20.7/31

Left Out: 1073.626 $\pm$ 129.690 χ^2 /NDF:15.1/24

Right Out: 1040.494 $\pm$ 212.061 χ^2 /NDF: 26.8/32

Left In: 1123.857 $\pm$ 133.163 χ^2 /NDF:30.0/22

Left: 1098.077 $\pm$ 92.908 χ^2 /NDF: 45.2/47

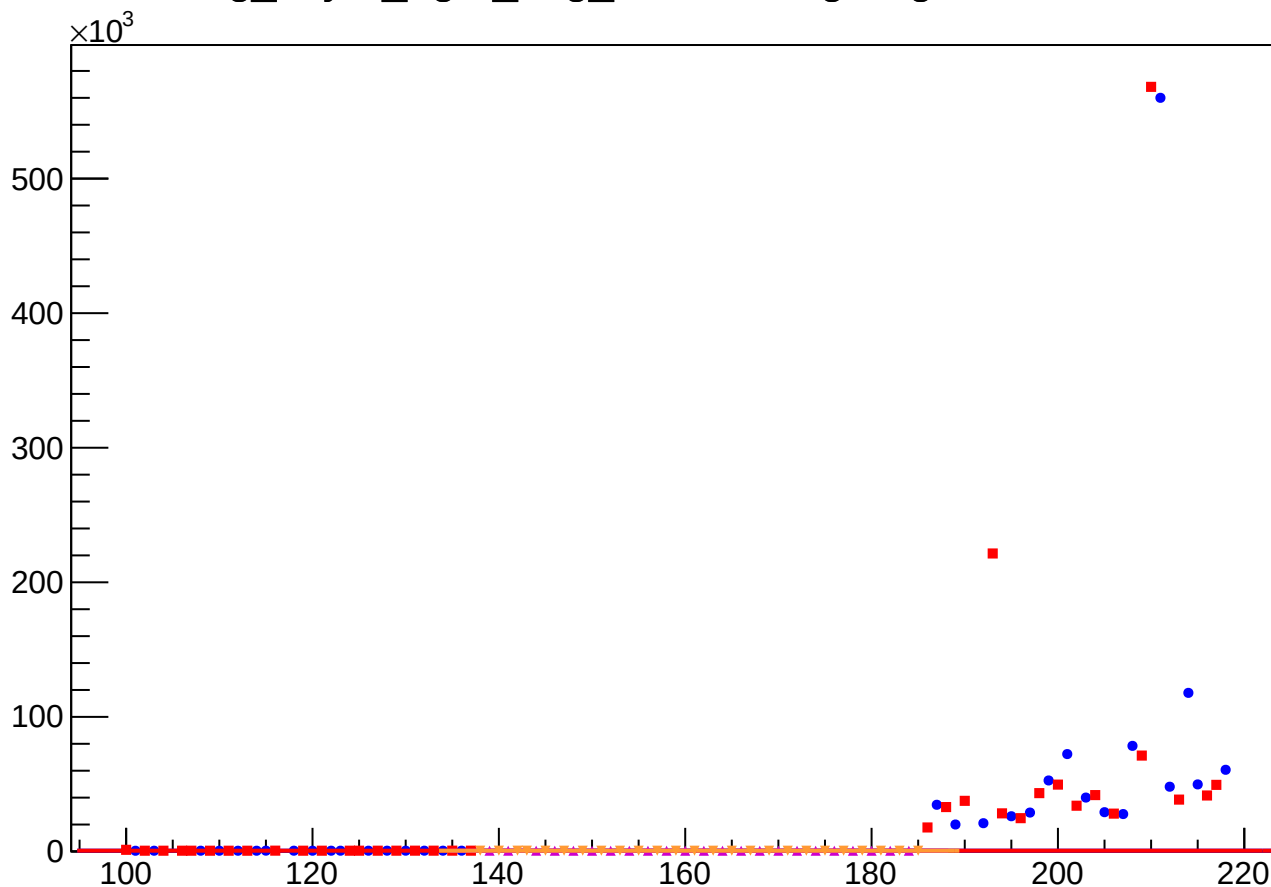
Right: 1178.625 $\pm$ 152.202 χ^2 /NDF: 48.4/64

In: 1178.405 $\pm$ 113.721 χ^2 /NDF:51.4/54

Out: 1064.607 $\pm$ 110.639 χ^2 /NDF:41.9/57

All: 1119.943 $\pm$ 79.301 χ^2 /NDF: 93.8/112

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.790 $\pm$ 0.155 χ^2 /NDF: 6467415.7/32

Left Out: 557.534 $\pm$ 0.092 χ^2 /NDF:14752.8/24

Right Out: 570.027 $\pm$ 0.150 χ^2 /NDF: 6257377.4/34

Left In: 556.969 $\pm$ 0.094 χ^2 /NDF:11209.7/22

Left: 557.259 $\pm$ 0.066 χ^2 /NDF: 25980.9/47

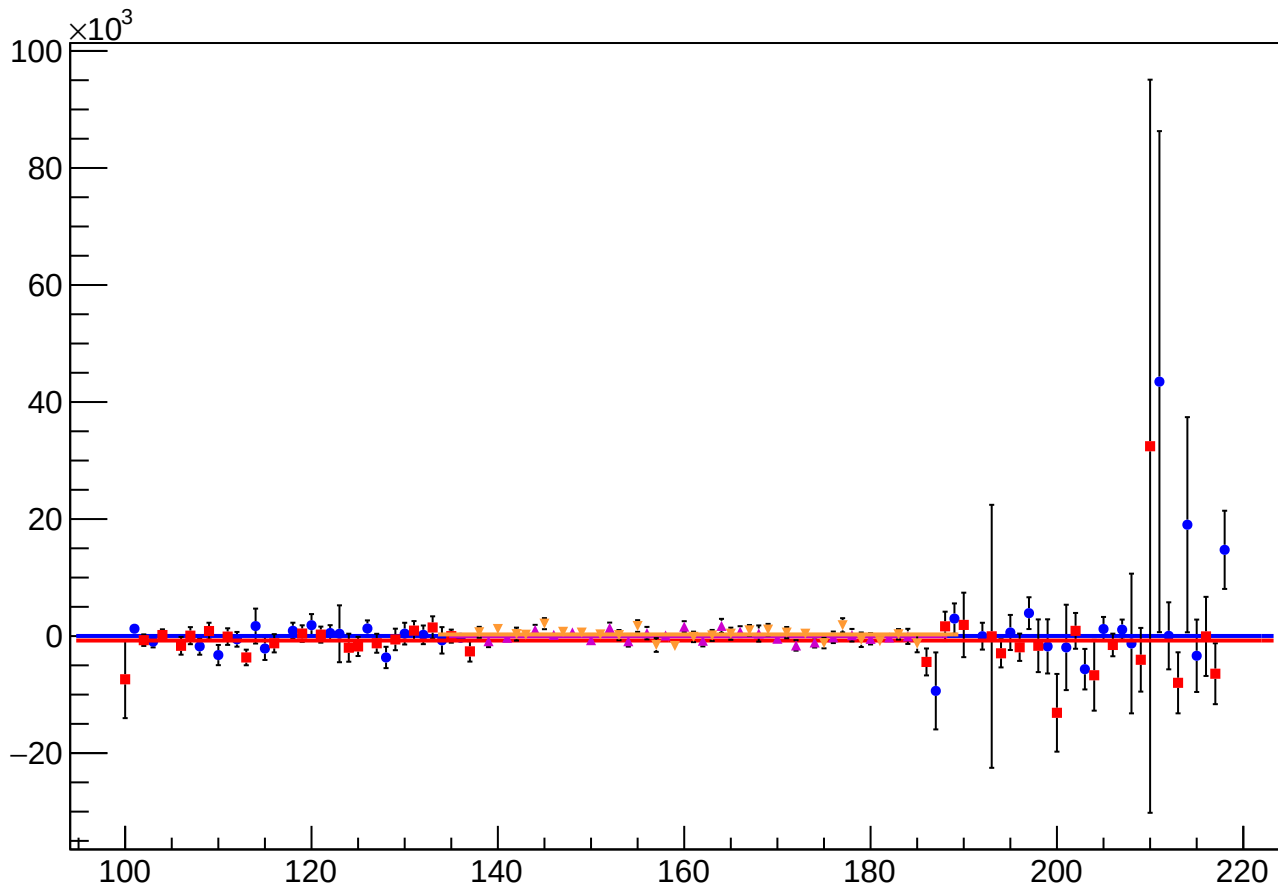
Right: 569.427 $\pm$ 0.108 χ^2 /NDF: 12724826.1/67

In: 560.169 $\pm$ 0.080 χ^2 /NDF:6482891.7/55

Out: 560.935 $\pm$ 0.078 χ^2 /NDF:6277182.0/59

All: 560.562 $\pm$ 0.056 χ^2 /NDF: 12760120.4/115

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: 21.901+/-305.695 χ^2/NDF : 33.5/32

Left Out: 281.875+/-180.423 χ^2/NDF : 26.7/24

Right Out: -757.987+/-310.673 χ^2/NDF : 28.4/34

Left In: -8.211+/-183.382 χ^2/NDF : 20.2/22

Left: 139.190+/-128.612 χ^2/NDF : 48.2/47

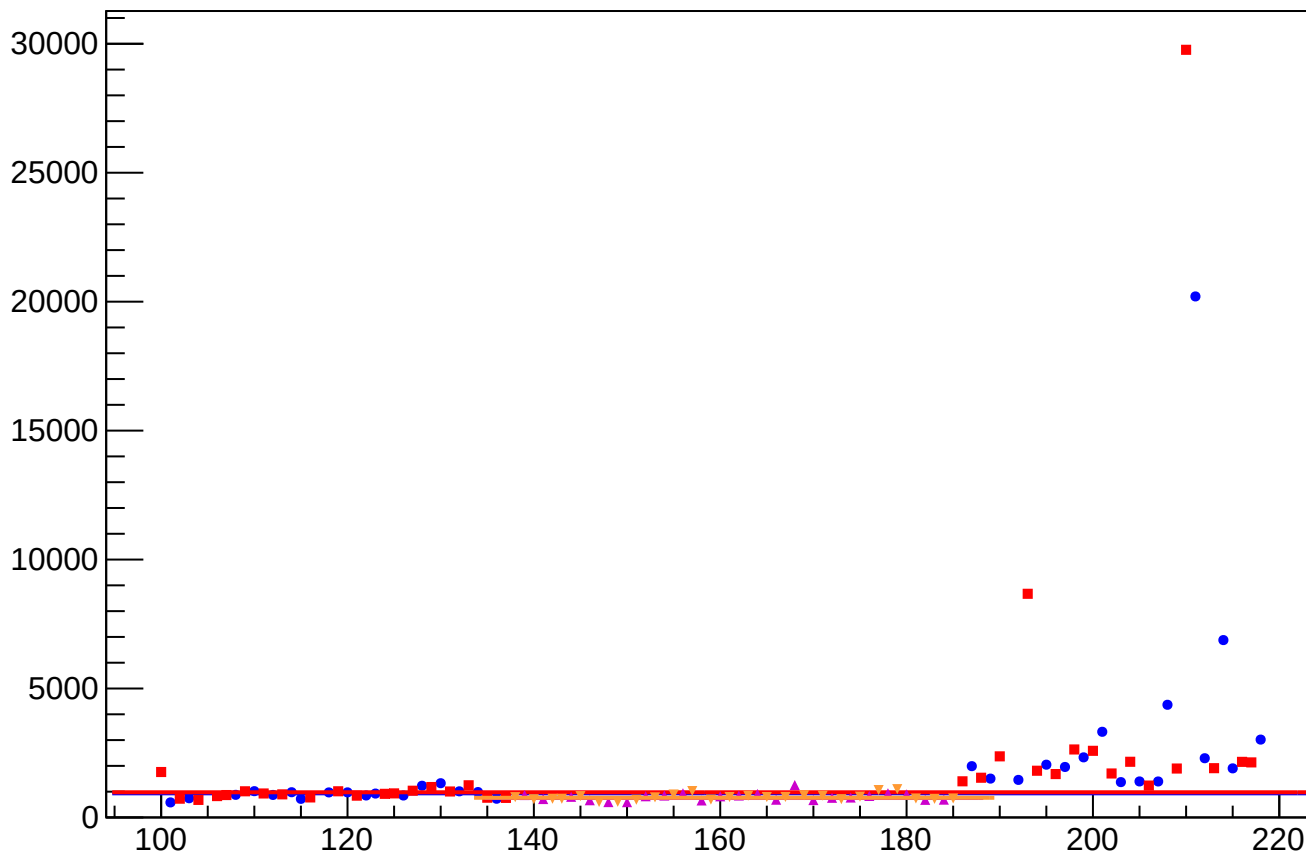
Right: -361.745+/-217.898 χ^2/NDF : 65.1/67

In: -0.243+/-157.256 χ^2/NDF : 53.7/55

Out: 19.613+/-156.021 χ^2/NDF : 63.5/59

All: 9.763+/-110.758 χ^2/NDF : 117.2/115

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 935.482 $\pm$ 0.216 χ^2 /NDF: 3470669.7/32

Left Out: 763.085 $\pm$ 0.128 χ^2 /NDF: 753700.1/24

Right Out: 976.376 $\pm$ 0.220 χ^2 /NDF: 2914904.2/34

Left In: 754.099 $\pm$ 0.130 χ^2 /NDF: 931829.3/22

Left: 758.665 $\pm$ 0.091 χ^2 /NDF: 1687969.6/47

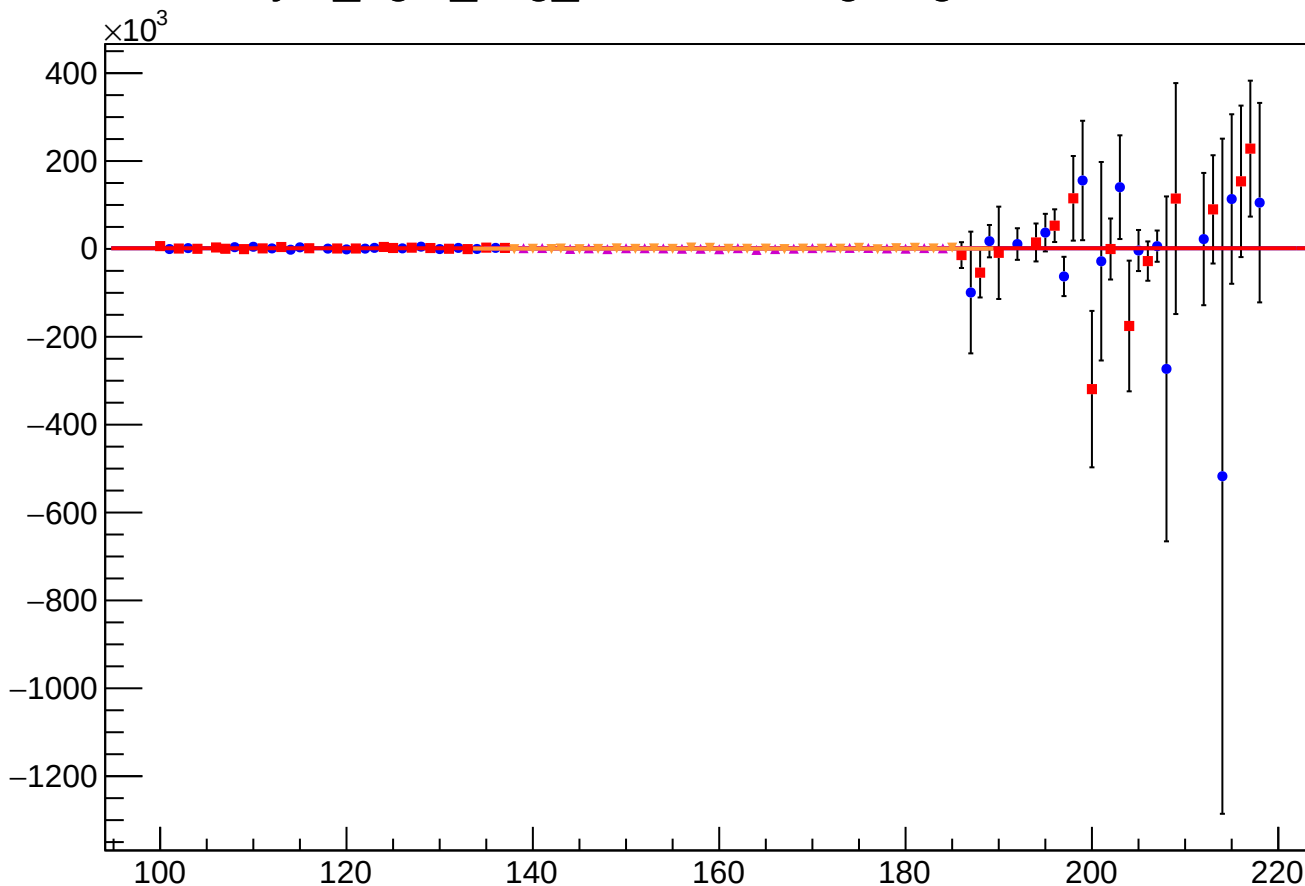
Right: 955.599 $\pm$ 0.154 χ^2 /NDF: 6403180.1/67

In: 802.099 $\pm$ 0.111 χ^2 /NDF: 4920295.5/55

Out: 816.879 $\pm$ 0.110 χ^2 /NDF: 4373548.1/59

All: 809.547 $\pm$ 0.078 χ^2 /NDF: 9302747.0/115

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.827 $\pm$ 402.533 χ^2 /NDF: 24.9/31

Left Out: 739.641 $\pm$ 225.535 χ^2 /NDF:21.5/24

Right Out: 1489.198 $\pm$ 400.594 χ^2 /NDF: 25.4/32

Left In: 1124.587 $\pm$ 230.065 χ^2 /NDF:25.4/22

Left: 928.287 $\pm$ 161.055 χ^2 /NDF: 48.3/47

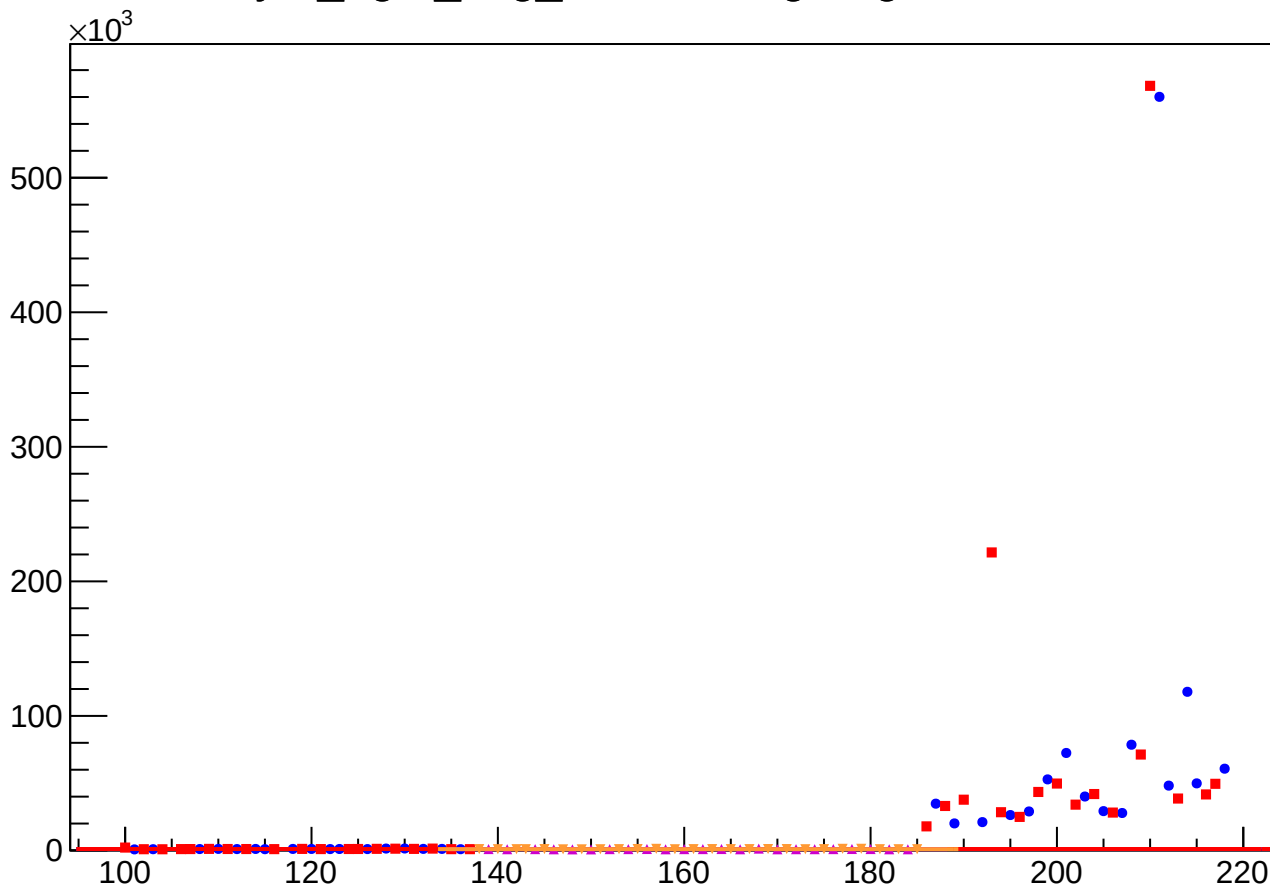
Right: 1495.482 $\pm$ 283.946 χ^2 /NDF: 50.3/64

In: 1217.474 $\pm$ 199.742 χ^2 /NDF:50.9/54

Out: 920.046 $\pm$ 196.529 χ^2 /NDF:49.6/57

All: 1066.348 $\pm$ 140.089 χ^2 /NDF: 101.6/112

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1039.531 $\pm$ 0.285 χ^2 /NDF: 6592872.7/32

Left Out: 962.256 $\pm$ 0.159 χ^2 /NDF: 362937.6/24

Right Out: 1074.320 $\pm$ 0.283 χ^2 /NDF: 6241435.1/34

Left In: 954.643 $\pm$ 0.163 χ^2 /NDF: 443395.0/22

Left: 958.525 $\pm$ 0.114 χ^2 /NDF: 807449.1/47

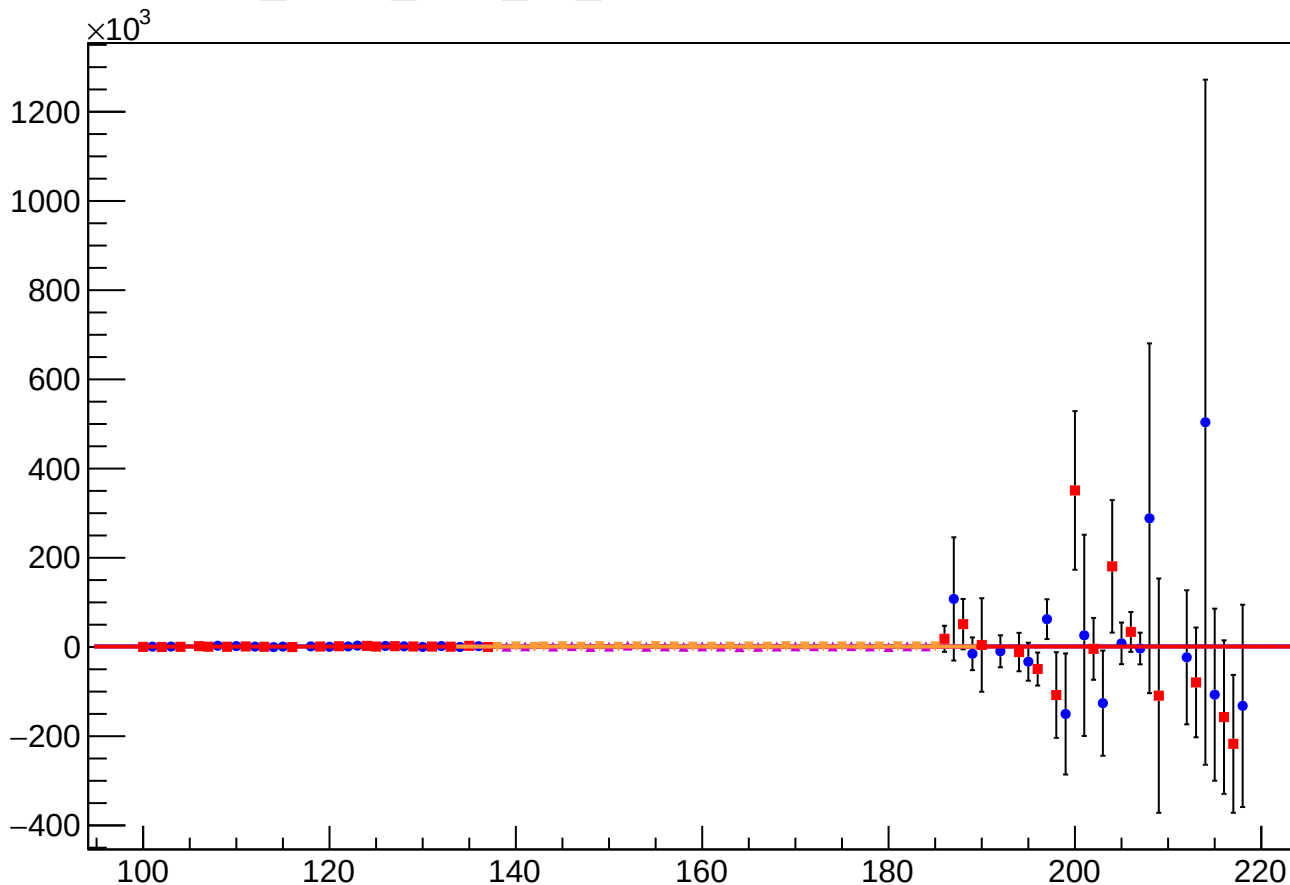
Right: 1057.009 $\pm$ 0.201 χ^2 /NDF: 12841813.4/67

In: 975.545 $\pm$ 0.141 χ^2 /NDF: 7103311.3/55

Out: 989.228 $\pm$ 0.139 χ^2 /NDF: 6723218.7/59

All: 982.497 $\pm$ 0.099 χ^2 /NDF: 13831298.4/11

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.214+/-218.833 χ^2/NDF : 19.5/31

Left Out: 1087.627+/-129.821 χ^2/NDF :14.9/24

Right Out: 965.201+/-208.596 χ^2/NDF : 25.9/32

Left In: 1189.481+/-133.313 χ^2/NDF :32.2/22

Left: 1137.202+/-93.008 χ^2/NDF : 47.4/47

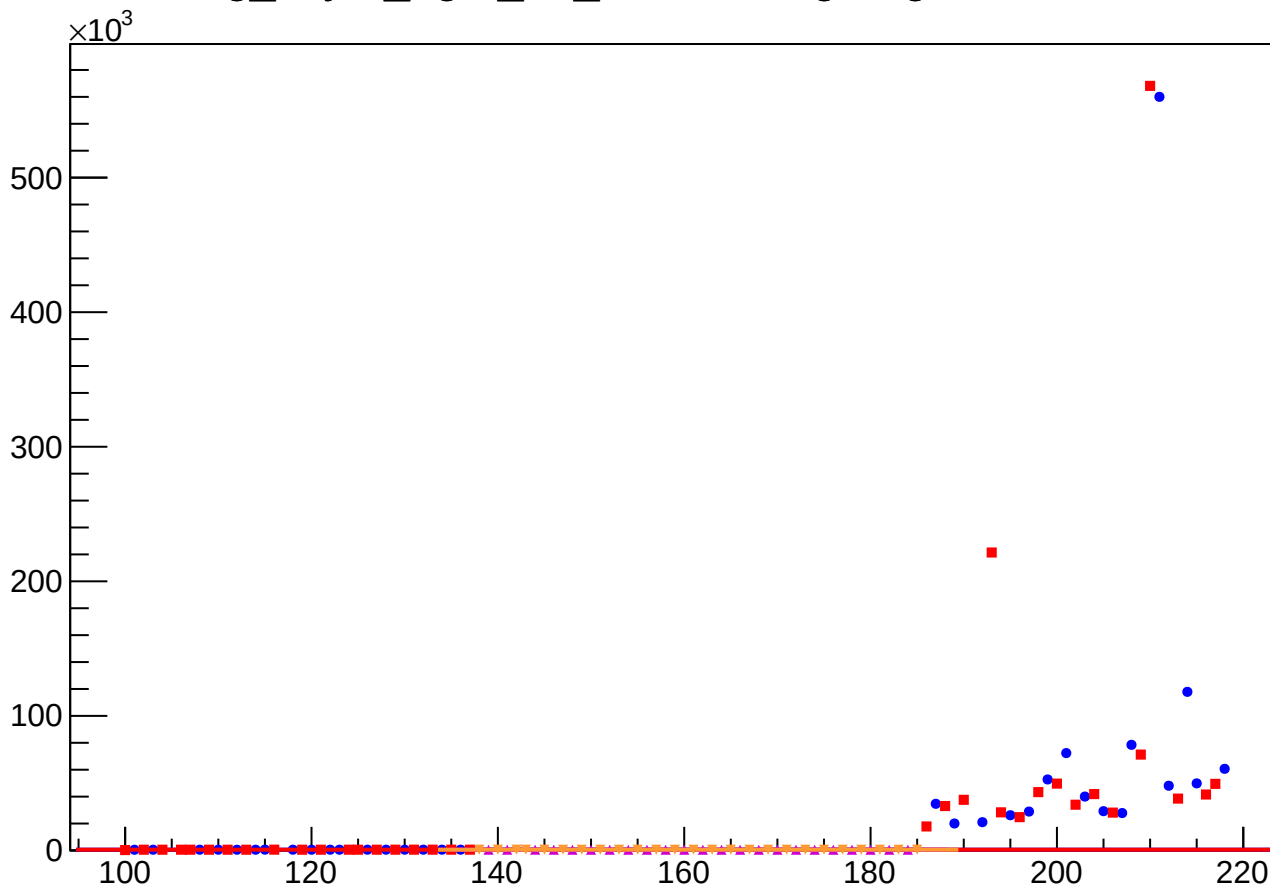
Right: 1145.635+/-150.989 χ^2/NDF : 47.0/64

In: 1231.363+/-113.850 χ^2/NDF :52.0/54

Out: 1053.447+/-110.219 χ^2/NDF :41.1/57

All: 1139.522+/-79.189 χ^2/NDF : 94.4/112

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.454 $\pm$ 0.155 χ^2 /NDF: 6467595.0/32

Left Out: 558.099 $\pm$ 0.092 χ^2 /NDF:14785.2/24

Right Out: 559.011 $\pm$ 0.147 χ^2 /NDF: 6345355.3/34

Left In: 557.597 $\pm$ 0.094 χ^2 /NDF:11276.8/22

Left: 557.854 $\pm$ 0.066 χ^2 /NDF: 26076.6/47

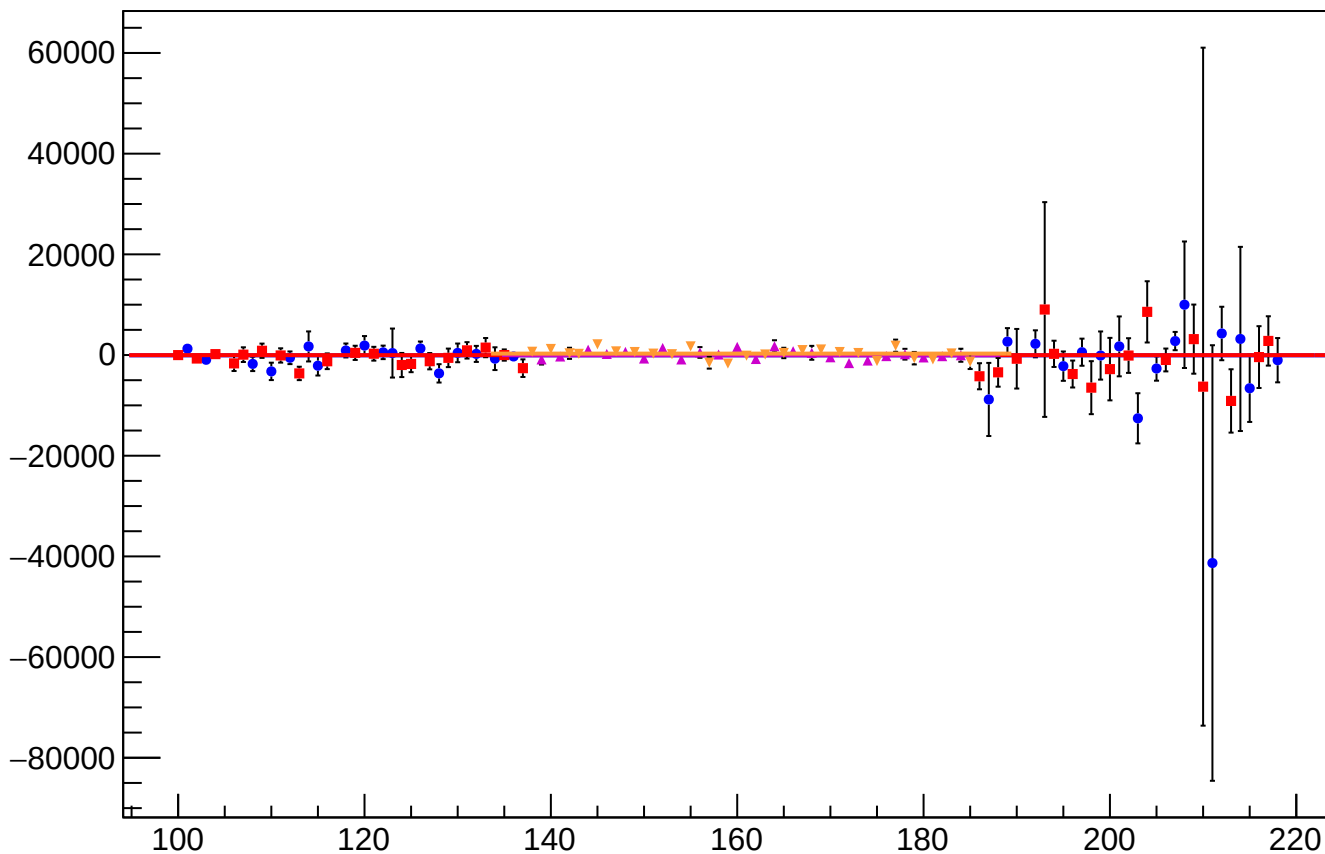
Right: 563.983 $\pm$ 0.107 χ^2 /NDF: 12815336.7/67

In: 560.806 $\pm$ 0.081 χ^2 /NDF:6483154.5/55

Out: 558.354 $\pm$ 0.078 χ^2 /NDF:6360168.0/59

All: 559.540 $\pm$ 0.056 χ^2 /NDF: 12843801.6/11

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -66.482+/-308.137 χ^2/NDF : 34.1/32

Left Out: 281.402+/-180.478 χ^2/NDF : 26.8/24

Right Out: -22.891+/-38.923 χ^2/NDF : 28.6/34

Left In: -7.306+/-183.473 χ^2/NDF : 20.1/22

Left: 139.424+/-128.663 χ^2/NDF : 48.2/47

Right: -23.576+/-38.617 χ^2/NDF : 62.8/67

In: -22.795+/-157.644 χ^2/NDF : 54.3/55

Out: -9.367+/-38.049 χ^2/NDF : 58.2/59

All: -10.106+/-36.987 χ^2/NDF : 112.4/115

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 939.189+/-0.218 χ^2/NDF : 3522140.8/32

Left Out: 763.307+/-0.128 χ^2/NDF : 753728.9/24

Right Out: 24.851+/-0.028 χ^2/NDF : 22095992.1/34

Left In: 754.483+/-0.130 χ^2/NDF : 931536.8/22

Left: 758.967+/-0.091 χ^2/NDF : 1687616.8/47

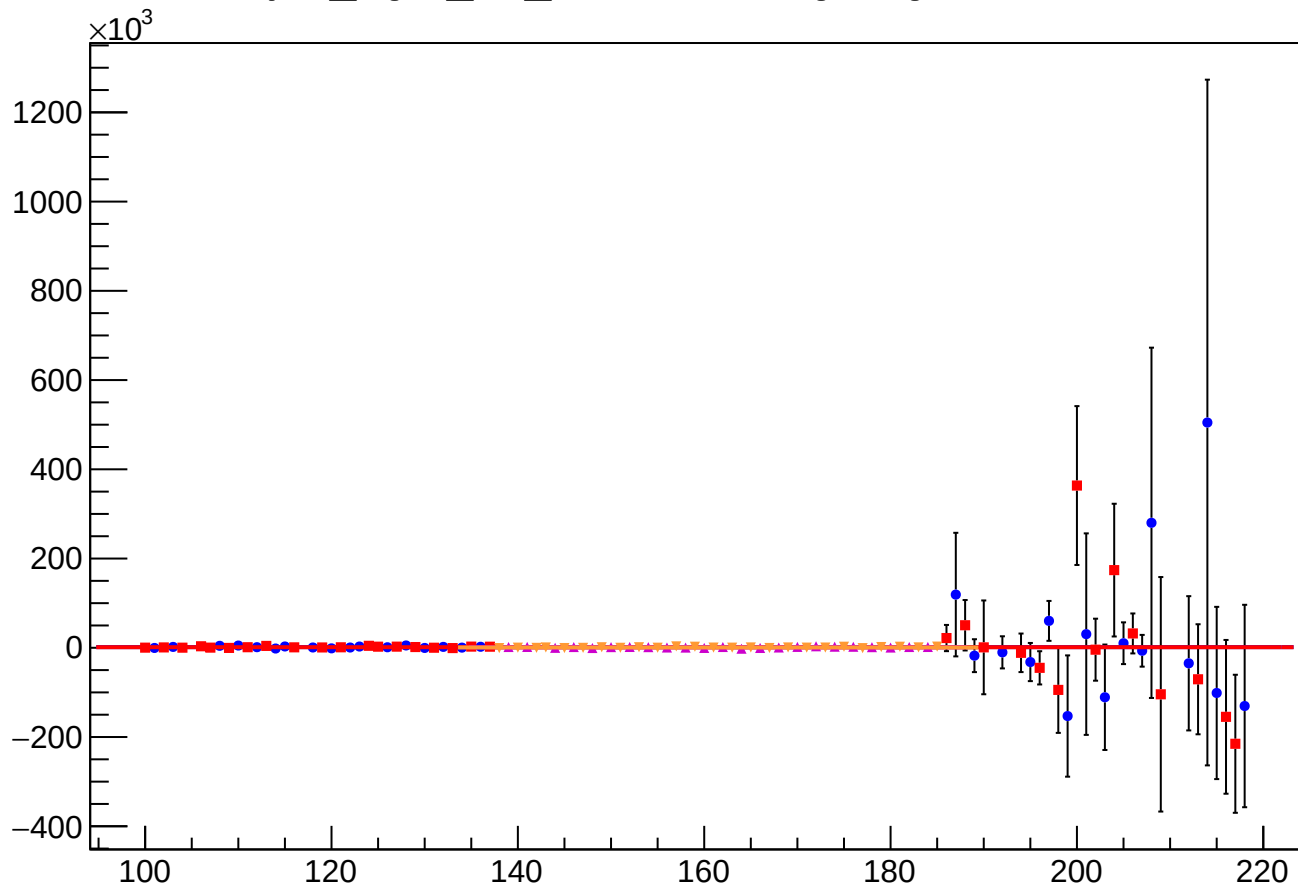
Right: 39.211+/-0.027 χ^2/NDF : 42951651.1/67

In: 802.828+/-0.111 χ^2/NDF : 4984219.3/55

Out: 57.672+/-0.027 χ^2/NDF : 54844998.5/59

All: 98.690+/-0.026 χ^2/NDF : 102055347.3/11

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1514.841 $\pm$ 402.756 χ^2 /NDF: 25.2/31

Left Out: 742.825 $\pm$ 225.658 χ^2 /NDF: 20.2/24

Right Out: 1287.781 $\pm$ 376.576 χ^2 /NDF: 25.5/32

Left In: 1176.288 $\pm$ 230.229 χ^2 /NDF: 24.2/22

Left: 955.211 $\pm$ 161.156 χ^2 /NDF: 46.3/47

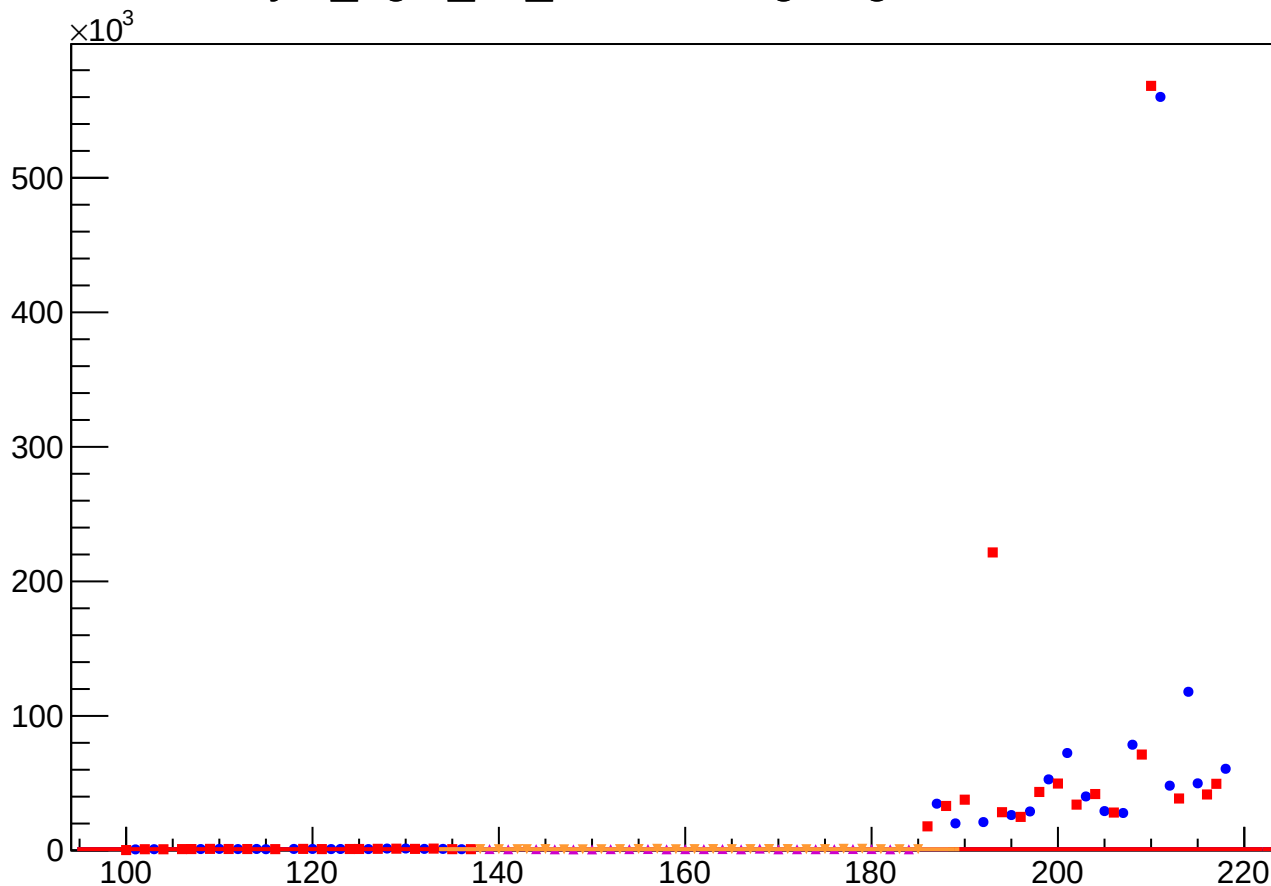
Right: 1393.692 $\pm$ 275.069 χ^2 /NDF: 50.8/64

In: 1259.669 $\pm$ 199.877 χ^2 /NDF: 49.9/54

Out: 886.808 $\pm$ 193.565 χ^2 /NDF: 47.3/57

All: 1067.258 $\pm$ 139.049 χ^2 /NDF: 99.0/112

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1040.115 $\pm$ 0.285 χ^2 /NDF: 6593458.9/32

Left Out: 962.776 $\pm$ 0.160 χ^2 /NDF: 362837.8/24

Right Out: 978.704 $\pm$ 0.266 χ^2 /NDF: 7116597.7/34

Left In: 955.331 $\pm$ 0.163 χ^2 /NDF: 443068.5/22

Left: 959.128 $\pm$ 0.114 χ^2 /NDF: 806973.3/47

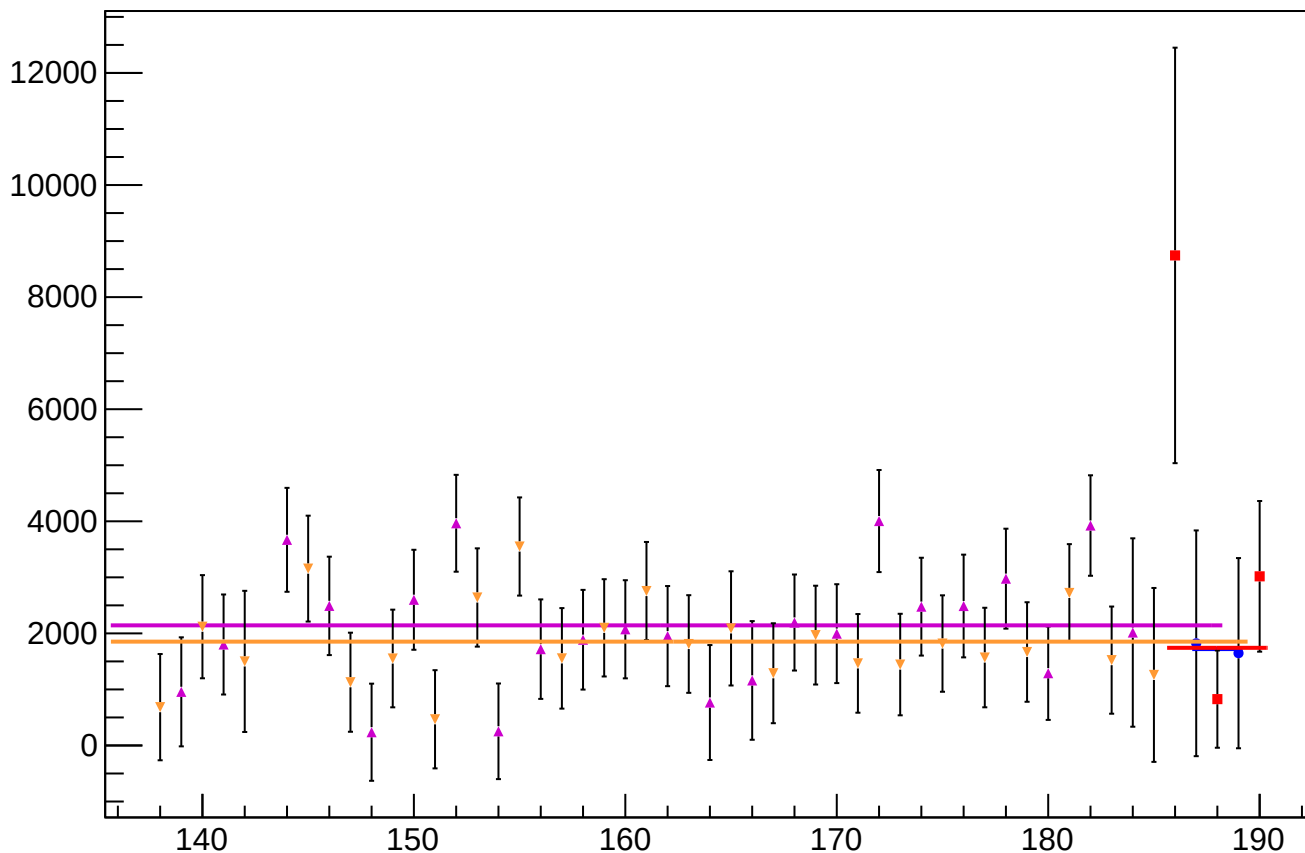
Right: 1007.349 $\pm$ 0.195 χ^2 /NDF: 13734865.9/67

In: 976.212 $\pm$ 0.141 χ^2 /NDF: 7103328.5/55

Out: 966.985 $\pm$ 0.137 χ^2 /NDF: 7482068.2/59

All: 971.450 $\pm$ 0.098 χ^2 /NDF: 14587596.1/11

cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 1720.097 $\pm$ 1297.686 χ^2 /NDF: 0.0/1

Left Out: 1852.926 $\pm$ 187.412 χ^2 /NDF:15.0/23

Right Out: 1742.386 $\pm$ 715.276 χ^2 /NDF: 5.6/2

Left In: 2143.254 $\pm$ 190.144 χ^2 /NDF:32.4/22

Left: 1995.990 $\pm$ 133.476 χ^2 /NDF: 48.5/46

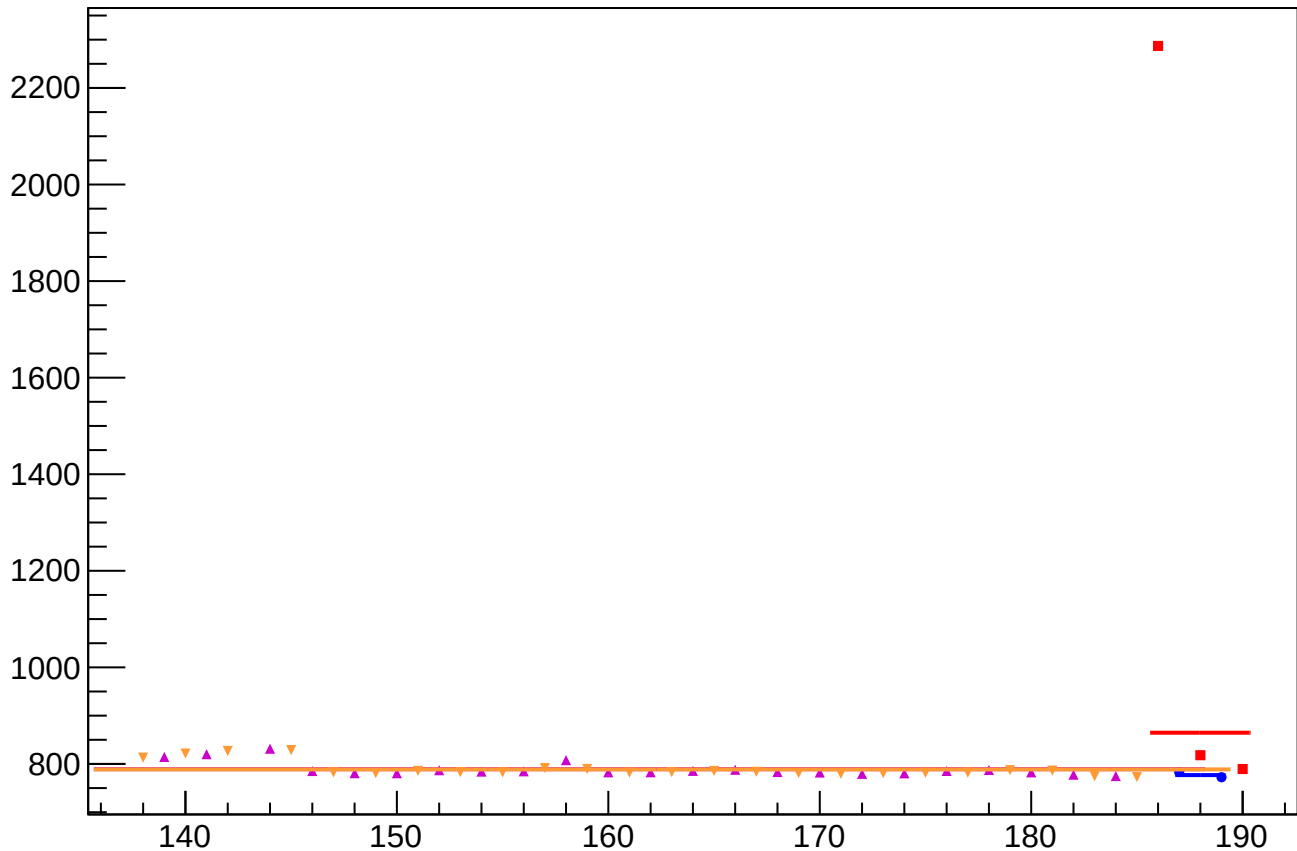
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

In: 2134.360 $\pm$ 188.135 χ^2 /NDF:32.5/24

Out: 1845.825 $\pm$ 181.293 χ^2 /NDF:20.6/26

All: 1984.750 $\pm$ 130.545 χ^2 /NDF: 54.3/51

cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 776.892+/-0.918 χ^2/NDF : 32.5/1

Left Out: 788.658+/-0.133 χ^2/NDF : 11499.7/23

Right Out: 864.658+/-0.506 χ^2/NDF : 306489.7/2

Left In: 789.176+/-0.134 χ^2/NDF : 10860.4/22

Left: 788.914+/-0.094 χ^2/NDF : 22367.7/46

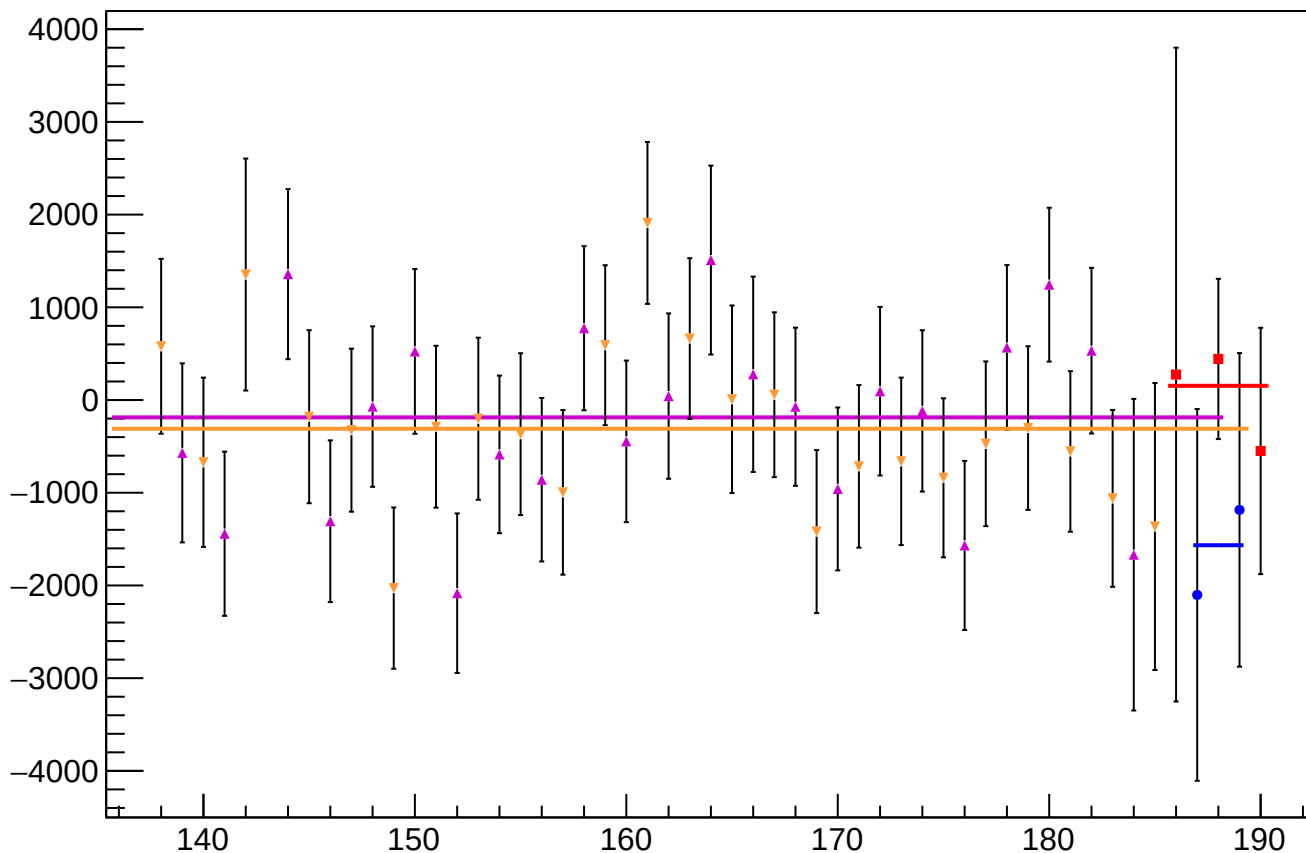
Right: 844.207+/-0.443 χ^2/NDF : 313539.0/4

In: 788.918+/-0.133 χ^2/NDF : 11068.4/24

Out: 793.541+/-0.128 χ^2/NDF : 339118.2/26

All: 791.315+/-0.092 χ^2/NDF : 350812.6/51

cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -1566.105 $\pm$ 1292.689 χ^2 /NDF: 0.1/1

Left Out: -309.656 $\pm$ 186.542 χ^2 /NDF:20.0/23

Right Out: 153.360 $\pm$ 709.634 χ^2 /NDF: 0.4/2

Left In: -187.105 $\pm$ 189.265 χ^2 /NDF:25.6/22

Left: -249.268 $\pm$ 132.858 χ^2 /NDF: 45.8/46

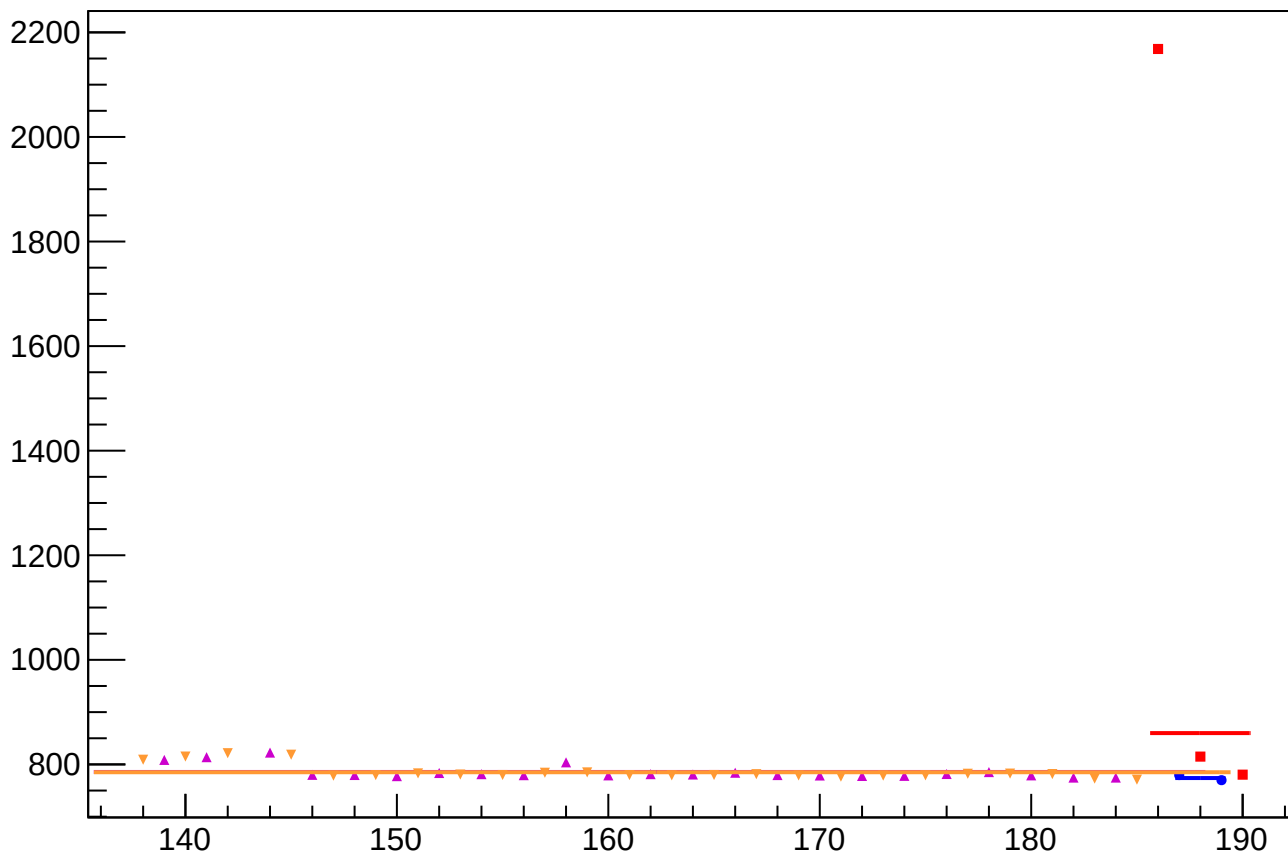
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

In: -216.045 $\pm$ 187.269 χ^2 /NDF:26.8/24

Out: -279.729 $\pm$ 180.413 χ^2 /NDF:20.8/26

All: -249.074 $\pm$ 129.927 χ^2 /NDF: 47.6/51

cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 773.922 ± 0.914 χ^2/NDF : 27.7/1

Left Out: 785.050 ± 0.132 χ^2/NDF : 9365.3/23

Right Out: 859.900 ± 0.502 χ^2/NDF : 287948.2/2

Left In: 785.562 ± 0.134 χ^2/NDF : 9033.0/22

Left: 785.302 ± 0.094 χ^2/NDF : 18405.7/46

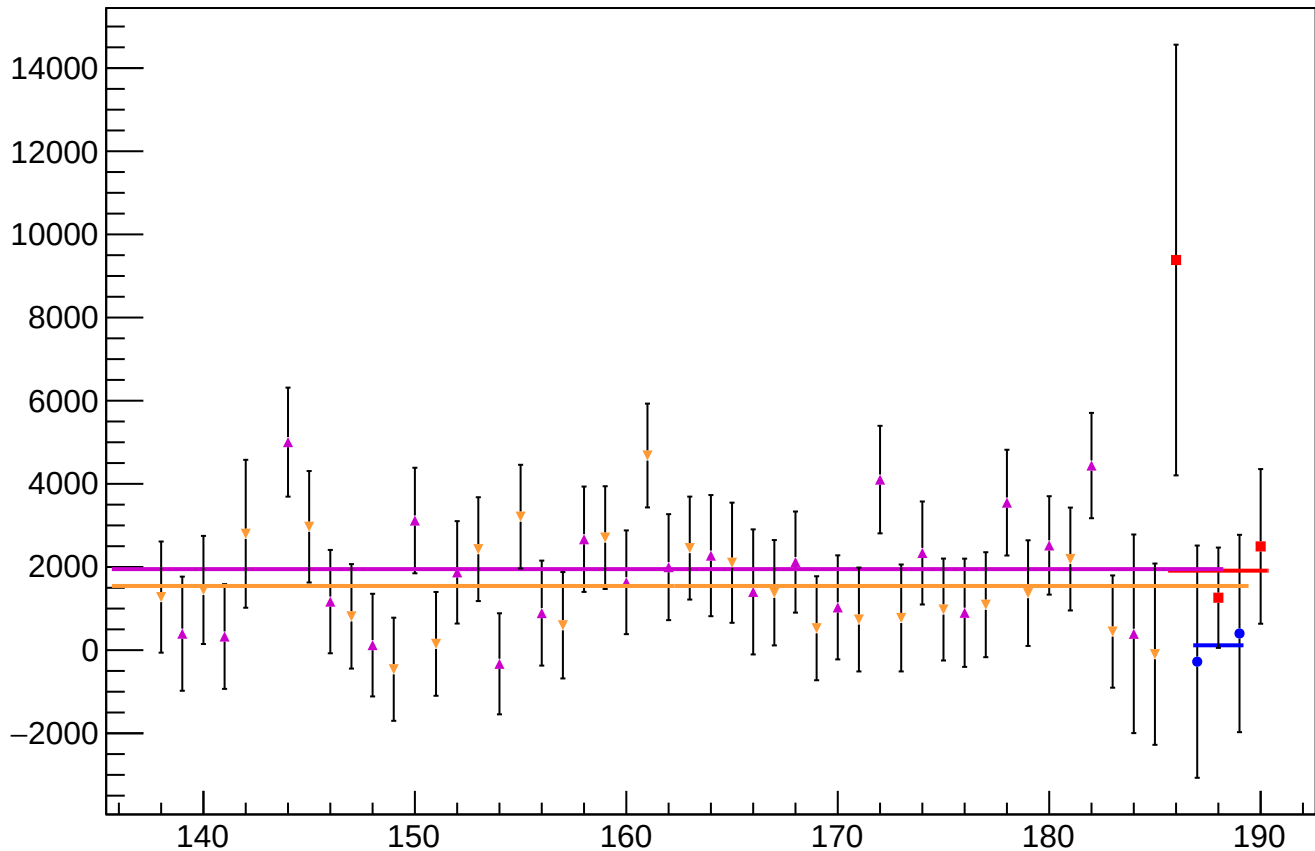
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

In: 785.318 ± 0.132 χ^2/NDF : 9219.5/24

Out: 789.888 ± 0.128 χ^2/NDF : 318126.2/26

All: 787.688 ± 0.092 χ^2/NDF : 327963.5/51

cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 116.401 $\pm$ 1808.672 χ^2 /NDF: 0.0/1

Left Out: 1543.729 $\pm$ 266.278 χ^2 /NDF:19.9/23

Right Out: 1911.693 $\pm$ 993.236 χ^2 /NDF: 2.5/2

Left In: 1949.077 $\pm$ 270.080 χ^2 /NDF:26.8/22

Left: 1743.530 $\pm$ 189.617 χ^2 /NDF: 47.8/46

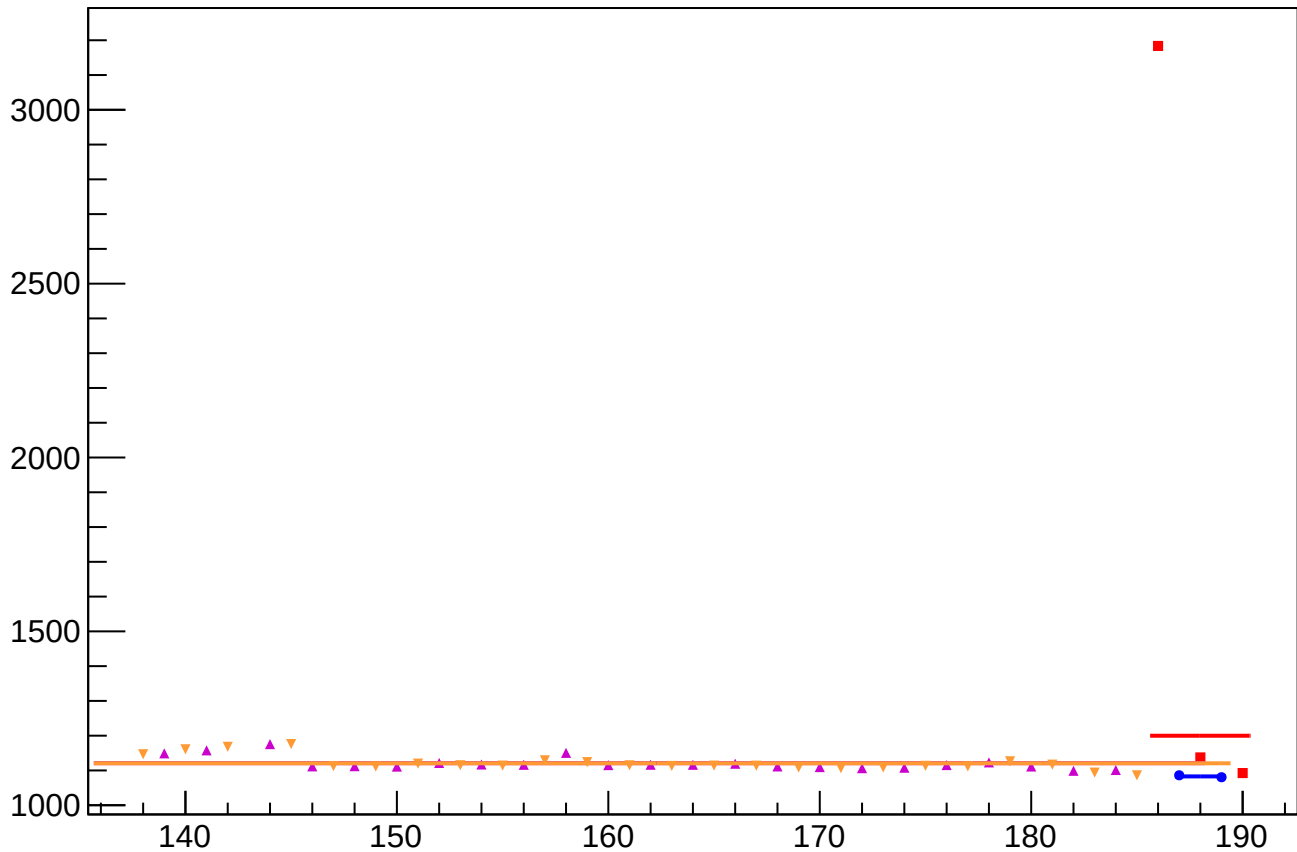
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

In: 1909.103 $\pm$ 267.118 χ^2 /NDF:27.8/24

Out: 1568.402 $\pm$ 257.196 χ^2 /NDF:22.5/26

All: 1732.308 $\pm$ 185.274 χ^2 /NDF: 51.2/51

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1082.866+/-1.279 χ^2/NDF : 4.6/1

Left Out: 1120.578+/-0.188 χ^2/NDF : 10264.0/23

Right Out: 1199.844+/-0.702 χ^2/NDF : 305356.1/2

Left In: 1120.977+/-0.191 χ^2/NDF : 9259.6/22

Left: 1120.775+/-0.134 χ^2/NDF : 19525.9/46

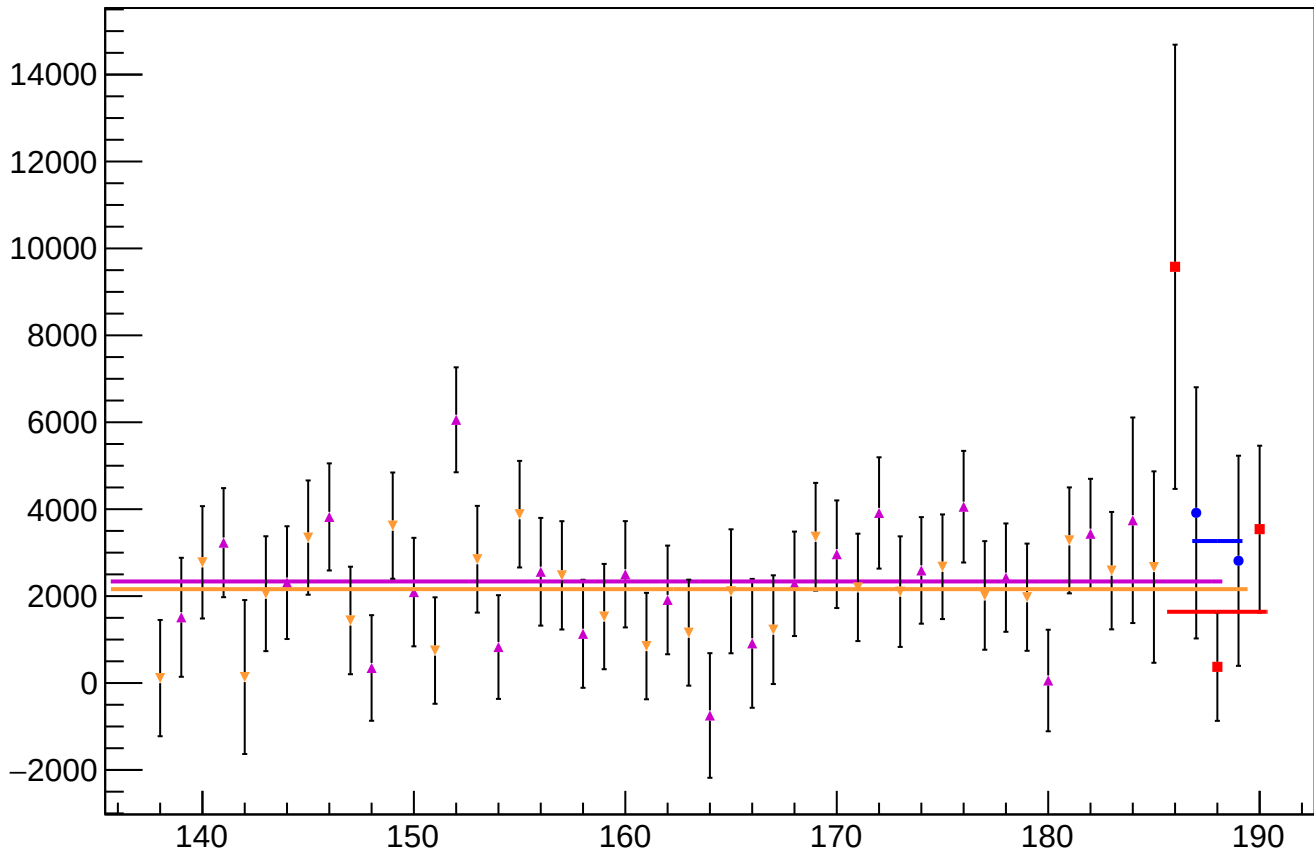
Right: 1172.741+/-0.616 χ^2/NDF : 311788.3/4

In: 1120.146+/-0.189 χ^2/NDF : 10132.9/24

Out: 1125.893+/-0.182 χ^2/NDF : 327503.8/26

All: 1123.129+/-0.131 χ^2/NDF : 338117.1/51

cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 3266.922 $\pm$ 1854.338 χ^2 /NDF: 0.1/1

Left Out: 2159.879 $\pm$ 257.526 χ^2 /NDF:15.0/24

Right Out: 1639.449 $\pm$ 1022.123 χ^2 /NDF: 4.4/2

Left In: 2337.232 $\pm$ 266.468 χ^2 /NDF:31.3/22

Left: 2245.530 $\pm$ 185.179 χ^2 /NDF: 46.5/47

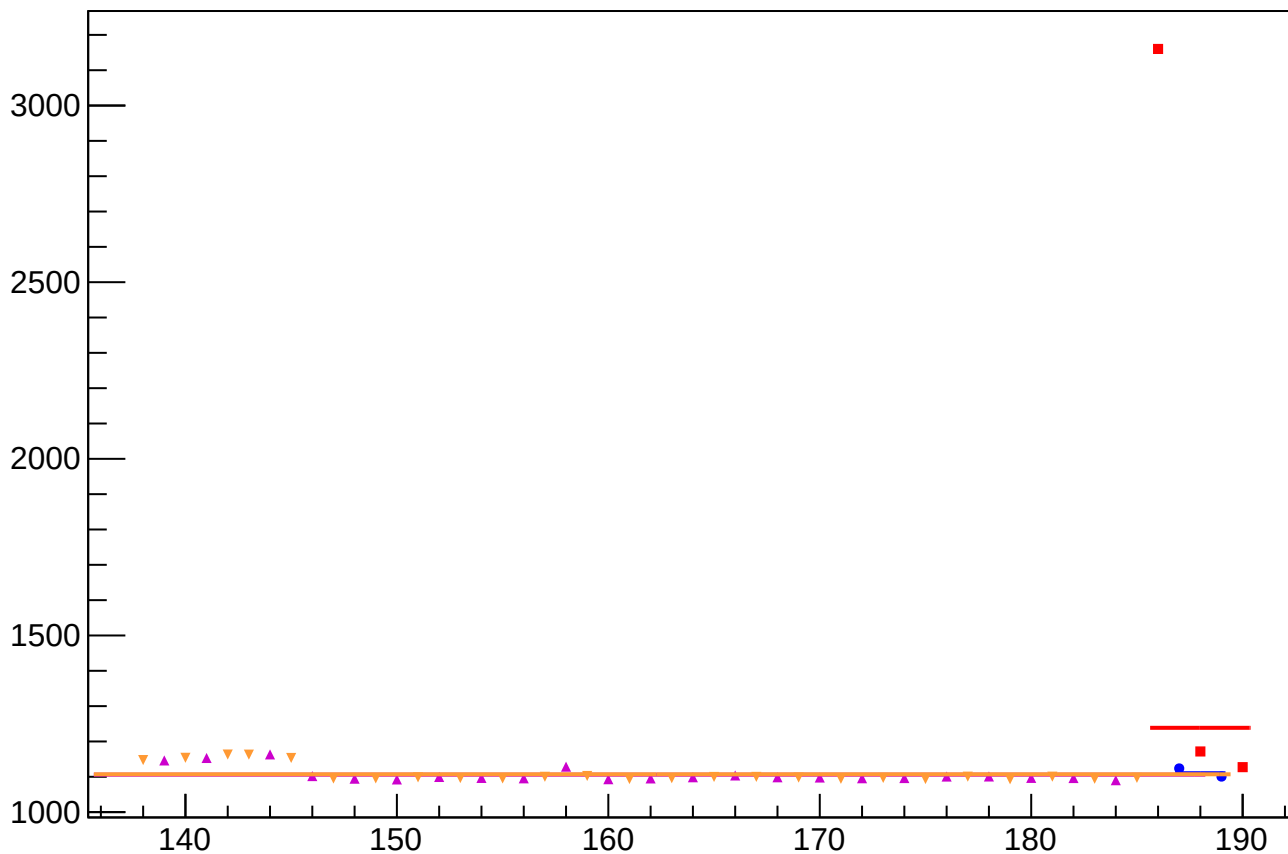
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

In: 2356.041 $\pm$ 263.759 χ^2 /NDF:31.6/24

Out: 2128.815 $\pm$ 249.722 χ^2 /NDF:19.6/27

All: 2236.221 $\pm$ 181.339 χ^2 /NDF: 51.7/52

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1110.109+/-1.311 χ^2/NDF : 75.3/1

Left Out: 1107.091+/-0.182 χ^2/NDF :15185.2/24

Right Out: 1238.637+/-0.723 χ^2/NDF : 295245.1/2

Left In: 1105.955+/-0.188 χ^2/NDF :11111.3/22

Left: 1106.543+/-0.131 χ^2/NDF : 26315.2/47

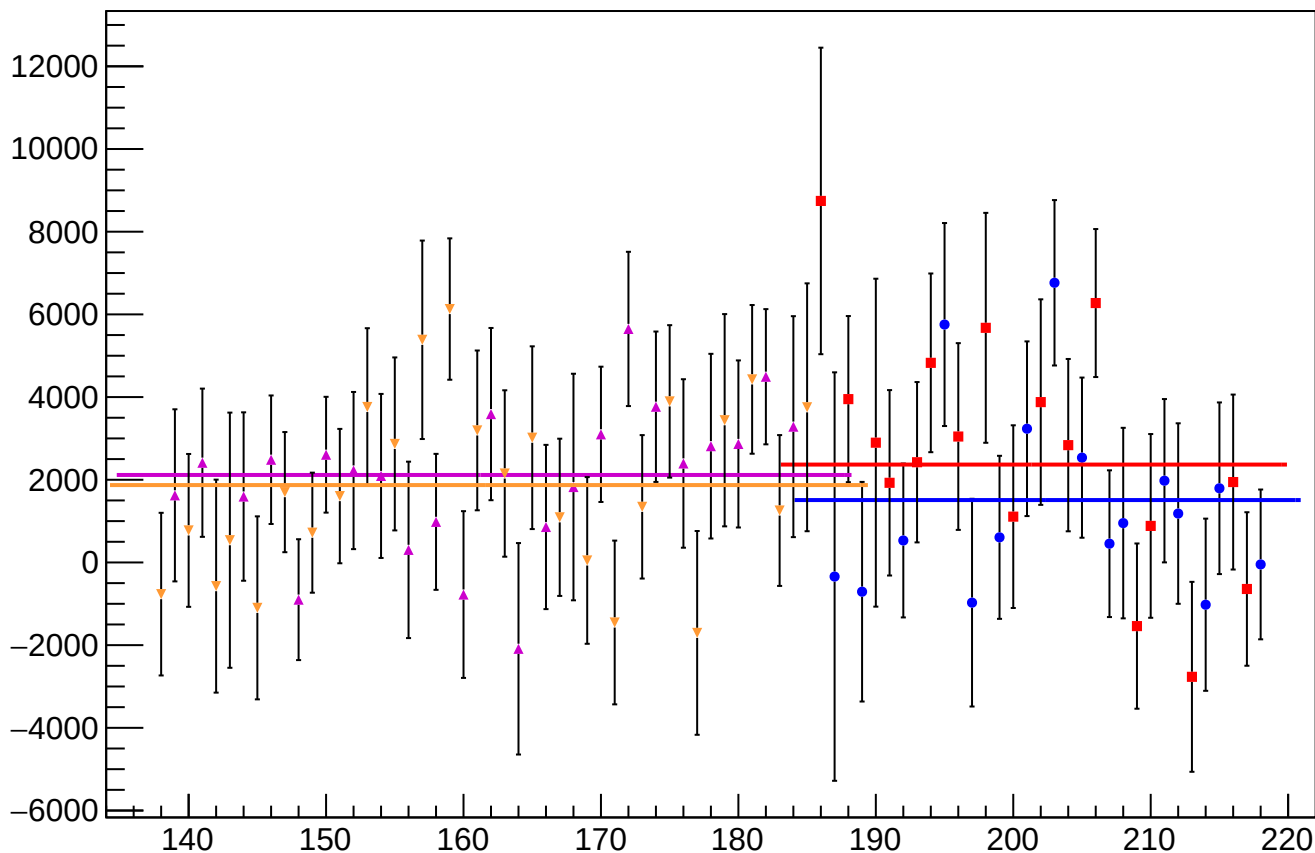
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

In: 1106.039+/-0.187 χ^2/NDF :11196.4/24

Out: 1114.943+/-0.177 χ^2/NDF :341579.9/27

All: 1110.735+/-0.128 χ^2/NDF : 353978.0/52

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 1509.135+/-532.017 χ^2/NDF : 15.9/15

Left Out: 1871.638+/-391.684 χ^2/NDF : 26.1/24

Right Out: 2367.450+/-538.113 χ^2/NDF : 23.9/16

Left In: 2116.114+/-392.997 χ^2/NDF : 18.8/22

Left: 1993.467+/-277.425 χ^2/NDF : 45.1/47

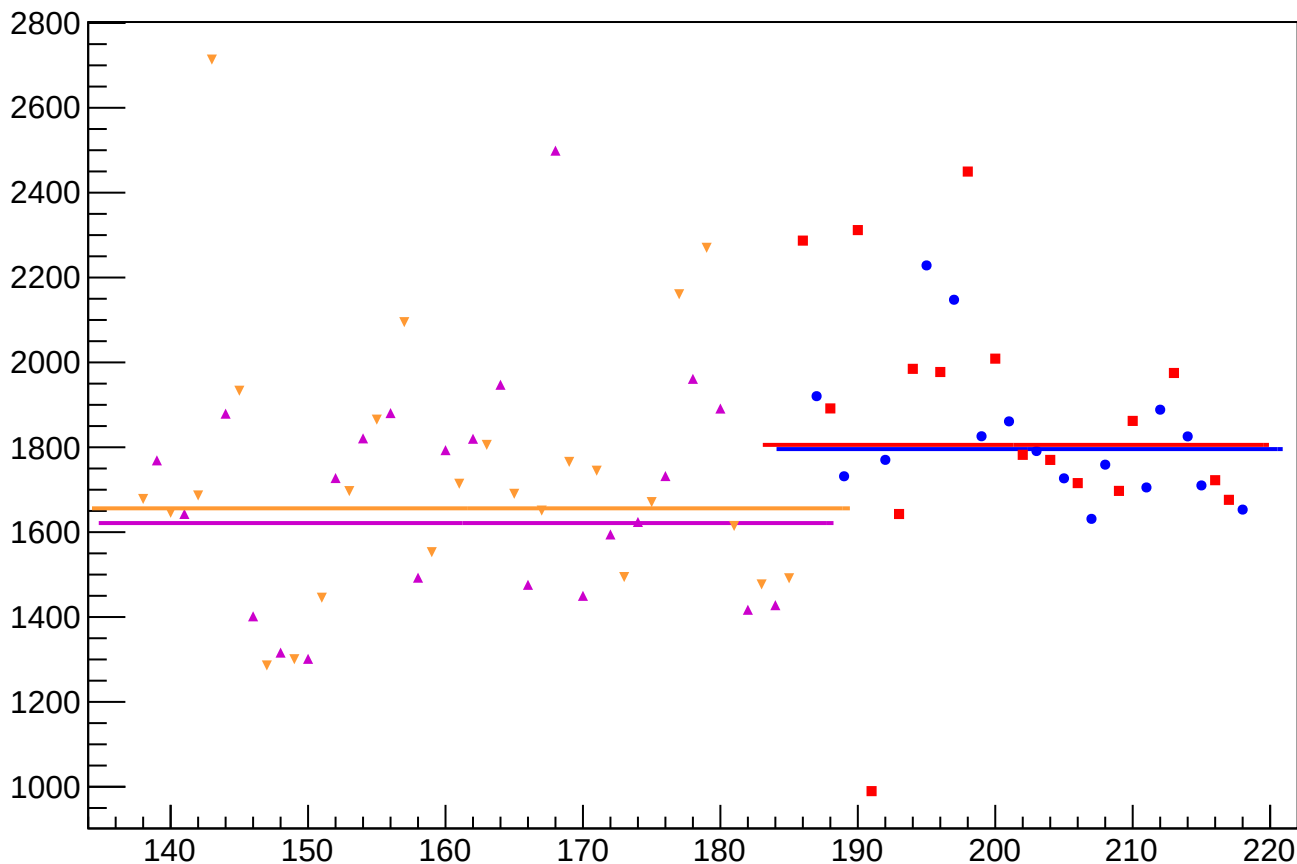
Right: 1933.404+/-378.330 χ^2/NDF : 41.0/32

In: 1901.833+/-316.105 χ^2/NDF : 35.5/38

Out: 2043.351+/-316.677 χ^2/NDF : 50.6/41

All: 1972.464+/-223.722 χ^2/NDF : 86.1/80

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1795.735 $\pm$ 0.376 χ^2 /NDF: 150830.5/15

Left Out: 1656.119 $\pm$ 0.277 χ^2 /NDF: 910573.4/24

Right Out: 1805.671 $\pm$ 0.381 χ^2 /NDF: 535113.4/16

Left In: 1621.417 $\pm$ 0.278 χ^2 /NDF: 775310.1/22

Left: 1638.826 $\pm$ 0.196 χ^2 /NDF: 1693706.9/47

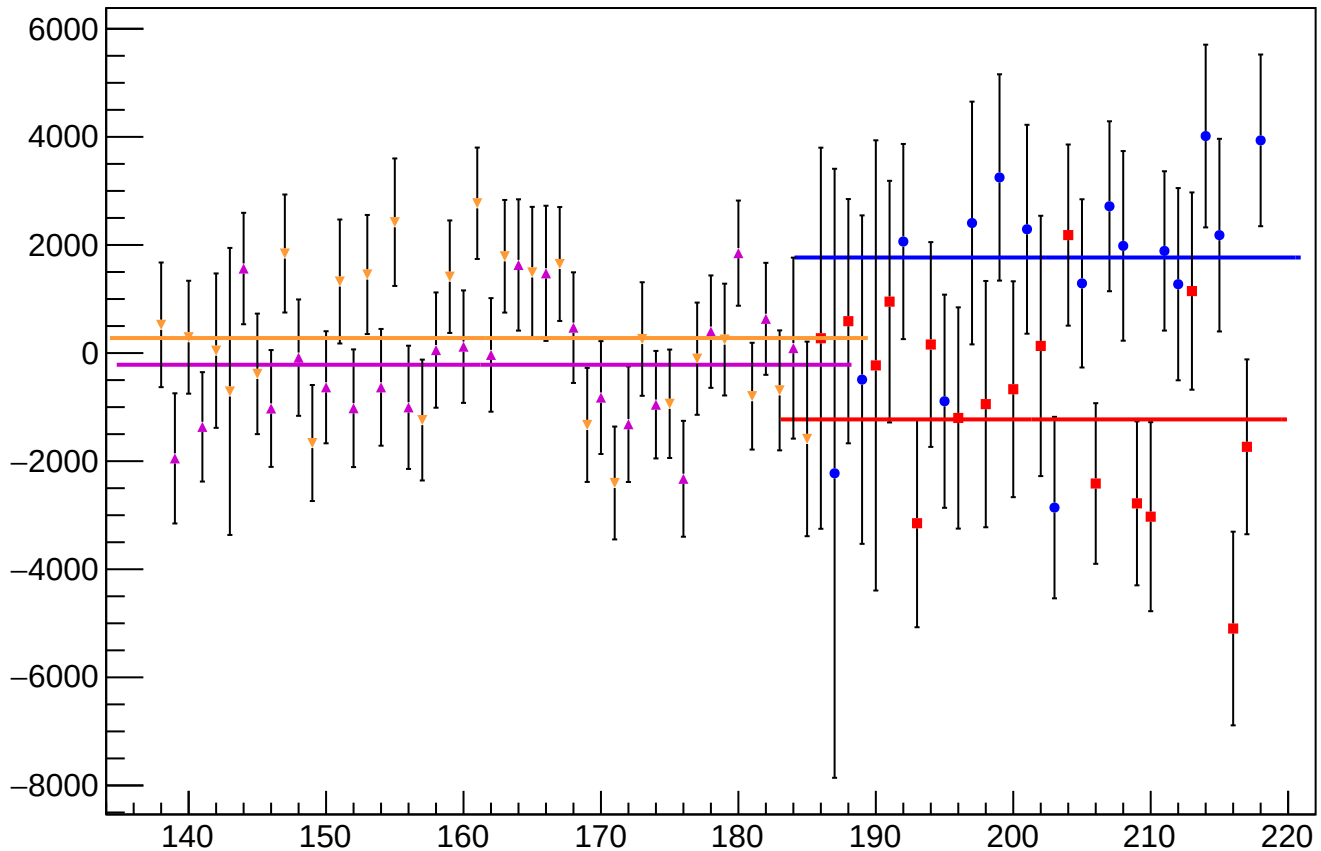
Right: 1800.646 $\pm$ 0.268 χ^2 /NDF: 686288.8/32

In: 1682.956 $\pm$ 0.224 χ^2 /NDF: 1065054.9/38

Out: 1707.913 $\pm$ 0.224 χ^2 /NDF: 1546665.2/41

All: 1695.412 $\pm$ 0.158 χ^2 /NDF: 2617942.1/80

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1768.173 $\pm$ 457.448 χ^2 /NDF: 15.5/15

Left Out: 278.090 $\pm$ 223.581 χ^2 /NDF:38.4/24

Right Out: -1227.159 $\pm$ 471.321 χ^2 /NDF: 17.1/16

Left In: -216.121 $\pm$ 225.600 χ^2 /NDF:24.4/22

Left: 33.207 $\pm$ 158.805 χ^2 /NDF: 65.2/47

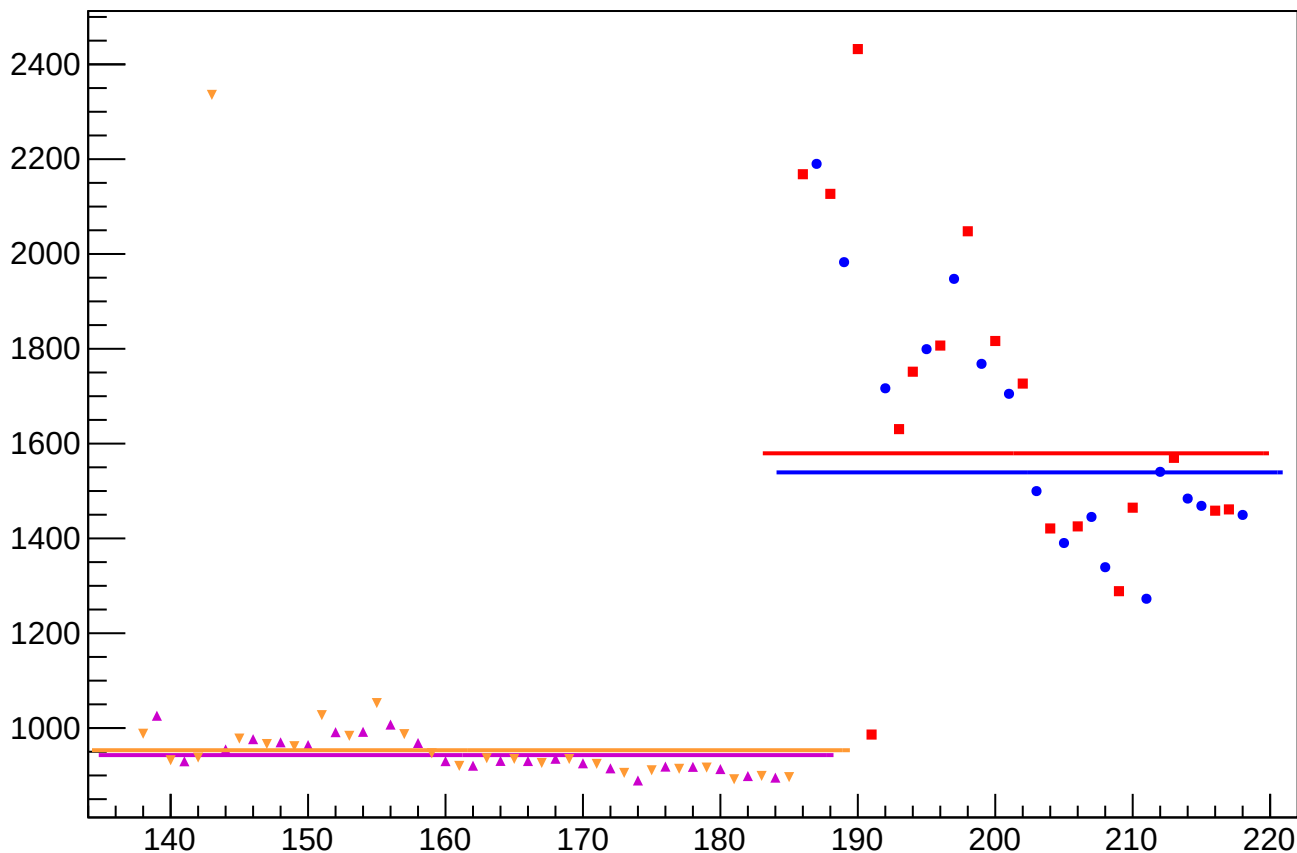
Right: 315.237 $\pm$ 328.260 χ^2 /NDF: 53.4/32

In: 172.078 $\pm$ 202.333 χ^2 /NDF:55.0/38

Out: 1.588 $\pm$ 202.005 χ^2 /NDF:63.8/41

All: 86.695 $\pm$ 142.955 χ^2 /NDF: 119.2/80

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1539.305 ± 0.323 $\chi^2/\text{NDF}: 362555.0/15$

Left Out: 953.221 ± 0.158 $\chi^2/\text{NDF}: 606273.1/24$

Right Out: 1579.533 ± 0.333 $\chi^2/\text{NDF}: 701905.9/16$

Left In: 942.927 ± 0.160 $\chi^2/\text{NDF}: 48402.9/22$

Left: 948.120 ± 0.112 $\chi^2/\text{NDF}: 656777.0/47$

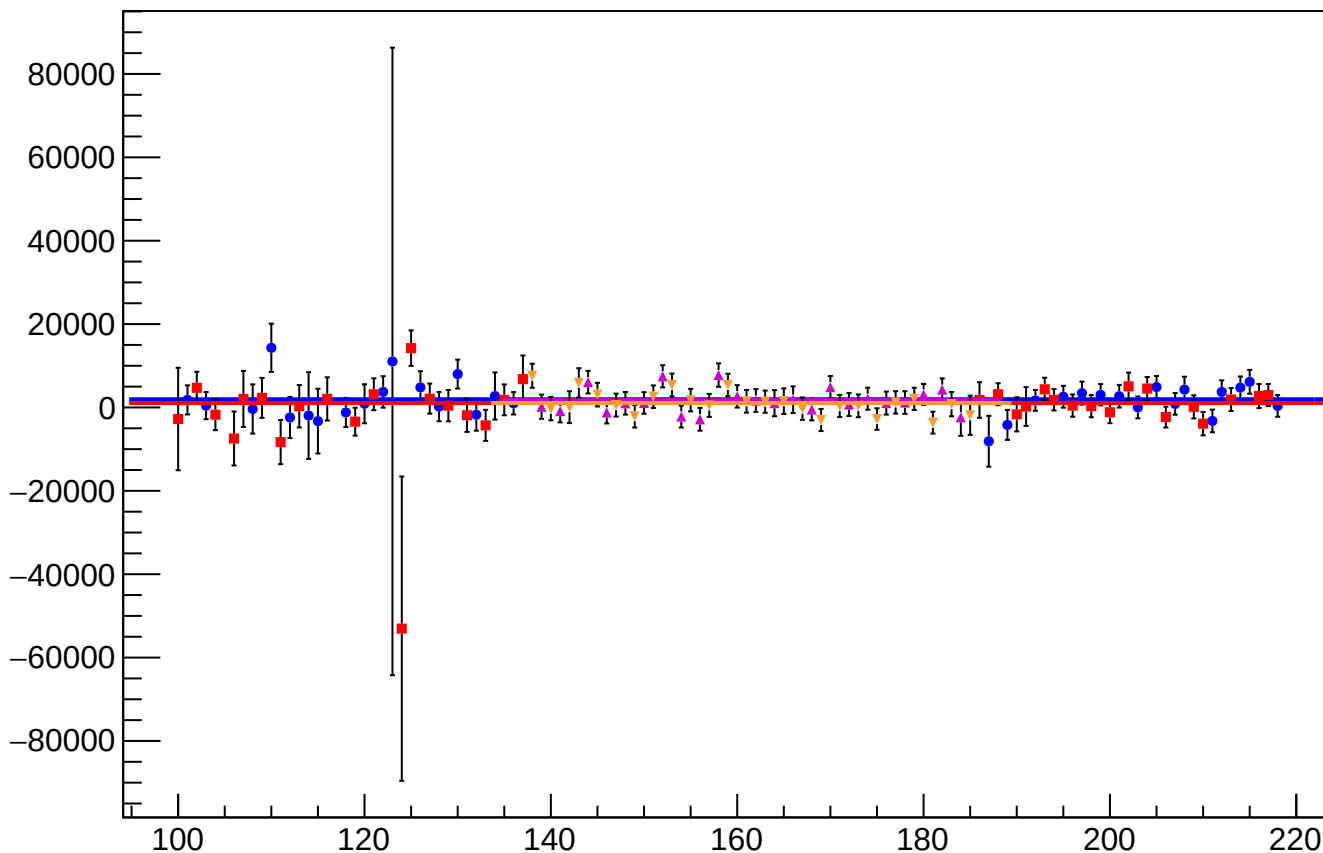
Right: 1558.818 ± 0.232 $\chi^2/\text{NDF}: 1071963.3/32$

In: 1059.600 ± 0.143 $\chi^2/\text{NDF}: 3145239.5/38$

Out: 1068.269 ± 0.143 $\chi^2/\text{NDF}: 4191097.2/41$

All: 1063.941 ± 0.101 $\chi^2/\text{NDF}: 7338175.7/80$

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1968.903 $\pm$ 575.563 χ^2 /NDF: 28.8/32

Left Out: 1078.054 $\pm$ 564.005 χ^2 /NDF: 23.6/24

Right Out: 1058.034 $\pm$ 577.774 χ^2 /NDF: 36.7/35

Left In: 1777.100 $\pm$ 575.895 χ^2 /NDF: 24.1/22

Left: 1420.287 $\pm$ 402.950 χ^2 /NDF: 48.4/47

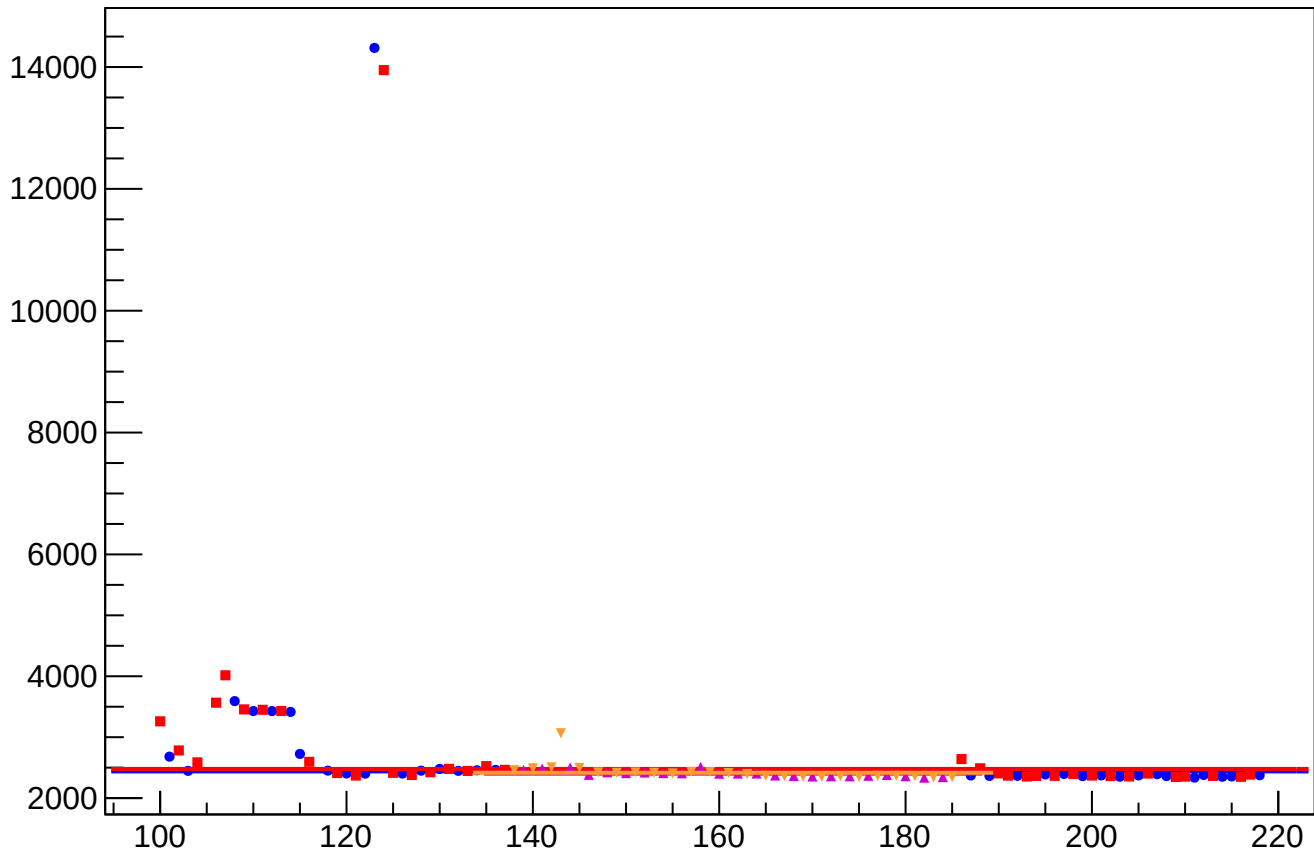
Right: 1515.215 $\pm$ 407.764 χ^2 /NDF: 66.7/68

In: 1873.057 $\pm$ 407.102 χ^2 /NDF: 52.9/55

Out: 1068.286 $\pm$ 403.592 χ^2 /NDF: 60.3/60

All: 1467.187 $\pm$ 286.615 χ^2 /NDF: 115.2/116

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2438.364 $\pm$ 0.407 χ^2 /NDF: 317473.8/32

Left Out: 2416.019 $\pm$ 0.399 χ^2 /NDF: 82636.1/24

Right Out: 2479.106 $\pm$ 0.409 χ^2 /NDF: 655755.9/35

Left In: 2401.422 $\pm$ 0.407 χ^2 /NDF: 13747.6/22

Left: 2408.873 $\pm$ 0.285 χ^2 /NDF: 97039.6/47

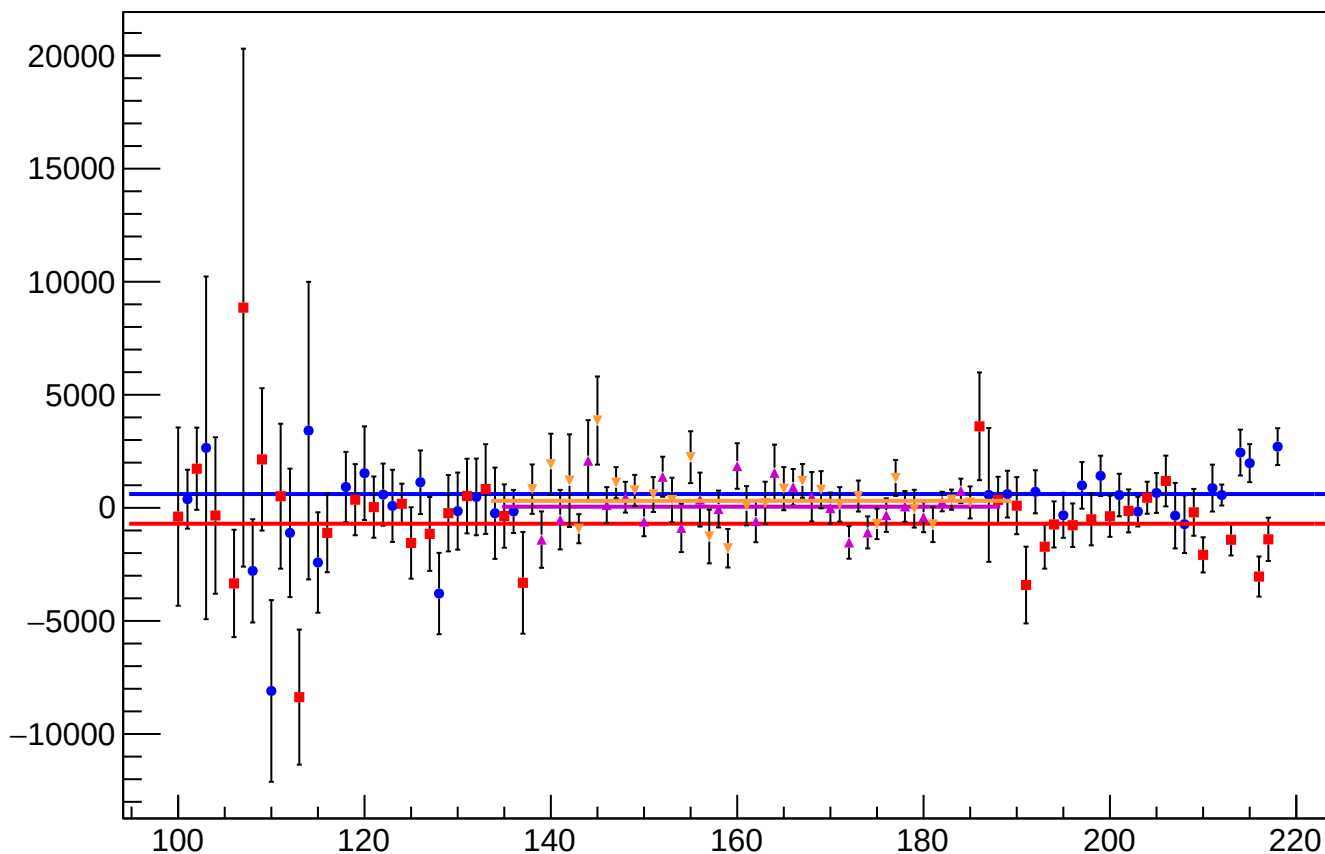
Right: 2458.657 $\pm$ 0.288 χ^2 /NDF: 978221.2/68

In: 2419.904 $\pm$ 0.288 χ^2 /NDF: 335338.8/55

Out: 2446.802 $\pm$ 0.285 χ^2 /NDF: 750601.7/60

All: 2433.469 $\pm$ 0.203 χ^2 /NDF: 1090344.0/11

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 611.002 $\pm$ 194.997 χ^2 /NDF: 34.3/32

Left Out: 310.873 $\pm$ 160.650 χ^2 /NDF:29.7/24

Right Out: -701.090 $\pm$ 203.994 χ^2 /NDF: 42.3/35

Left In: 51.454 $\pm$ 161.744 χ^2 /NDF:23.8/22

Left: 182.044 $\pm$ 113.982 χ^2 /NDF: 54.9/47

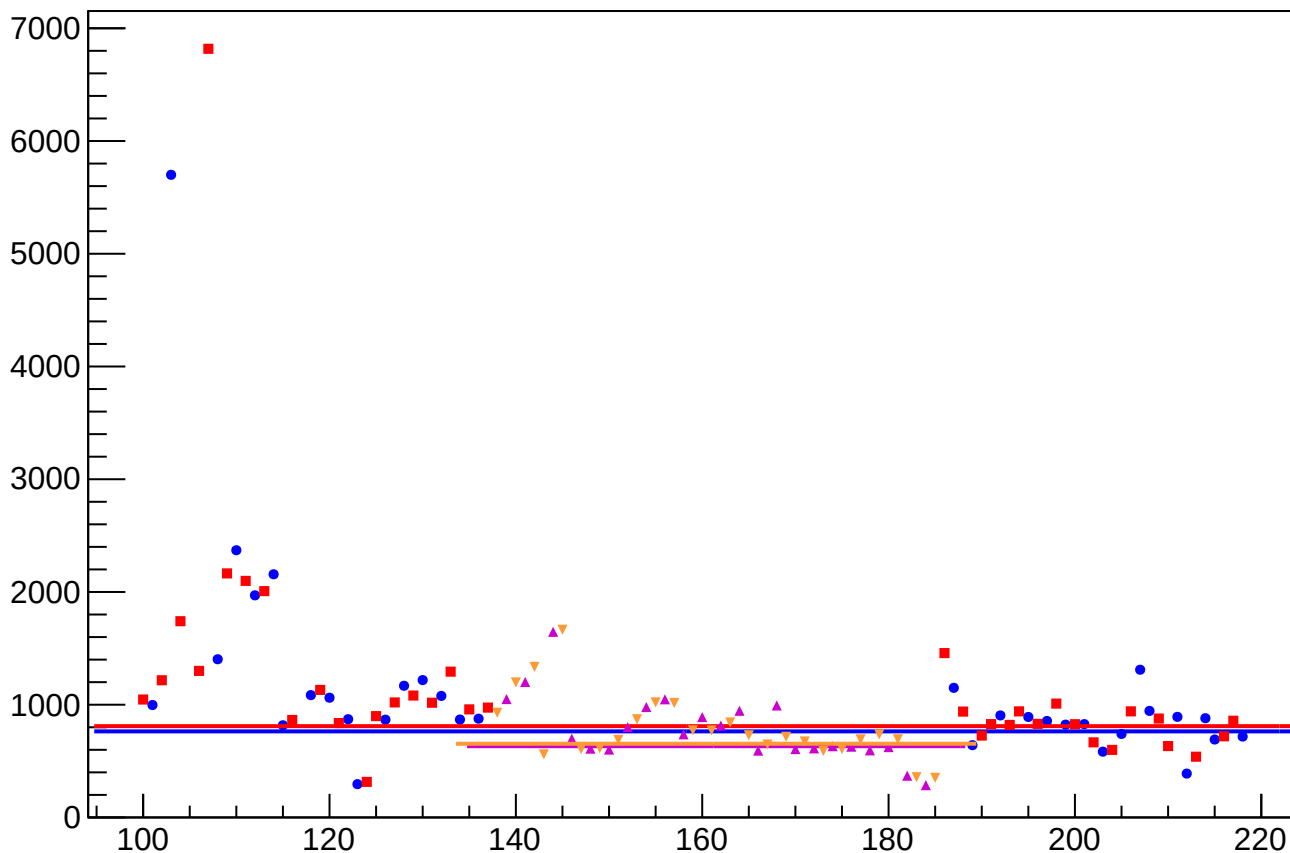
Right: -15.473 $\pm$ 140.957 χ^2 /NDF: 98.2/68

In: 279.520 $\pm$ 124.492 χ^2 /NDF:63.0/55

Out: -76.497 $\pm$ 126.211 χ^2 /NDF:87.2/60

All: 103.953 $\pm$ 88.631 χ^2 /NDF: 154.3/116

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 763.559 $\pm$ 0.138 χ^2/NDF : 4546512.3/32

Left Out: 653.803 $\pm$ 0.114 χ^2/NDF : 3254694.4/24

Right Out: 809.810 $\pm$ 0.144 χ^2/NDF : 3856987.5/35

Left In: 632.053 $\pm$ 0.114 χ^2/NDF : 3942853.4/22

Left: 643.002 $\pm$ 0.081 χ^2/NDF : 7215752.9/47

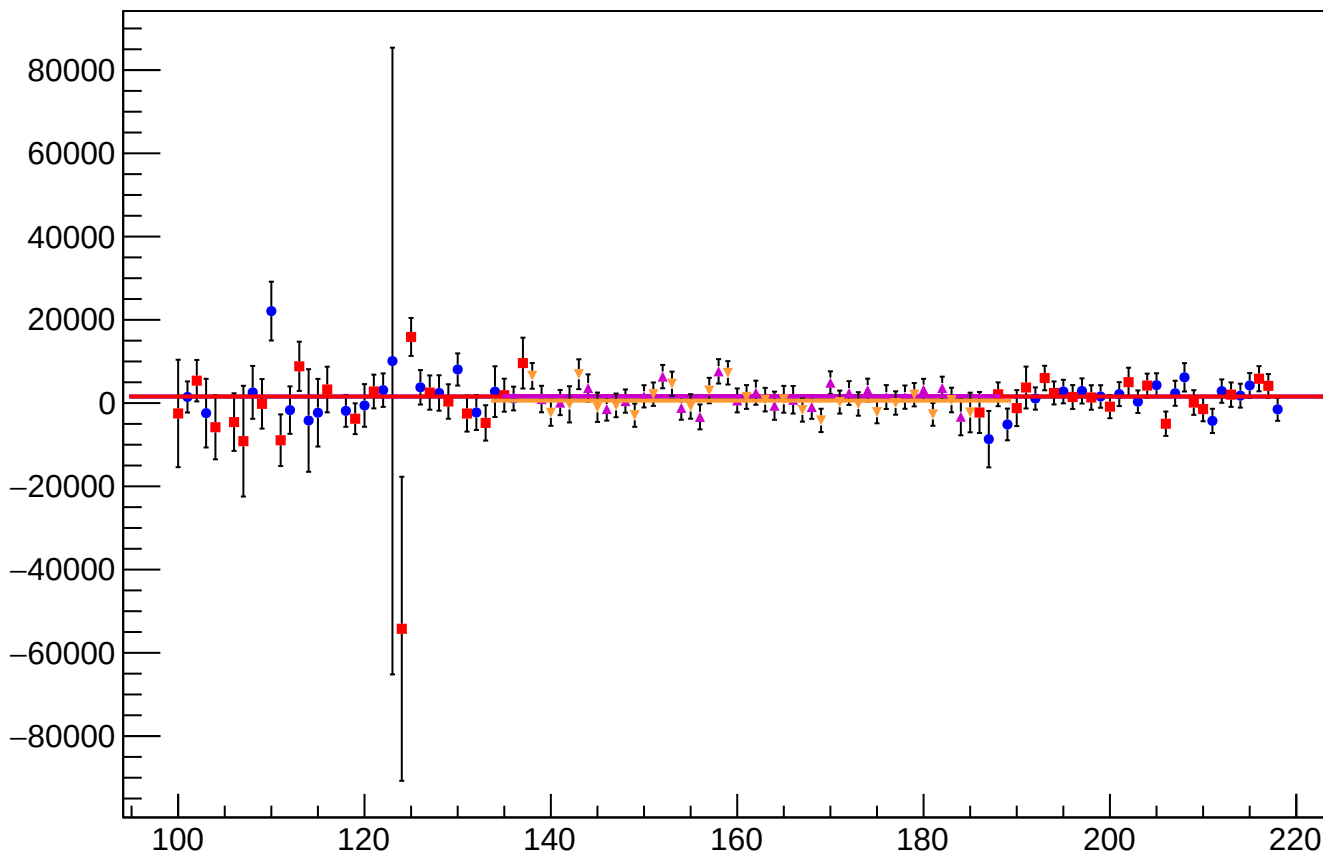
Right: 785.642 $\pm$ 0.100 χ^2/NDF : 8457221.8/68

In: 685.654 $\pm$ 0.088 χ^2/NDF : 9028244.5/55

Out: 713.521 $\pm$ 0.089 χ^2/NDF : 7833653.3/60

All: 699.396 $\pm$ 0.063 χ^2/NDF : 16911318.7/11

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1567.509 $\pm$ 629.237 χ^2/NDF : 29.8/32

Left Out: 580.879 $\pm$ 597.173 χ^2/NDF : 25.3/24

Right Out: 1586.173 $\pm$ 635.338 χ^2/NDF : 42.3/35

Left In: 1679.572 $\pm$ 610.111 χ^2/NDF : 18.2/22

Left: 1118.453 $\pm$ 426.766 χ^2/NDF : 45.2/47

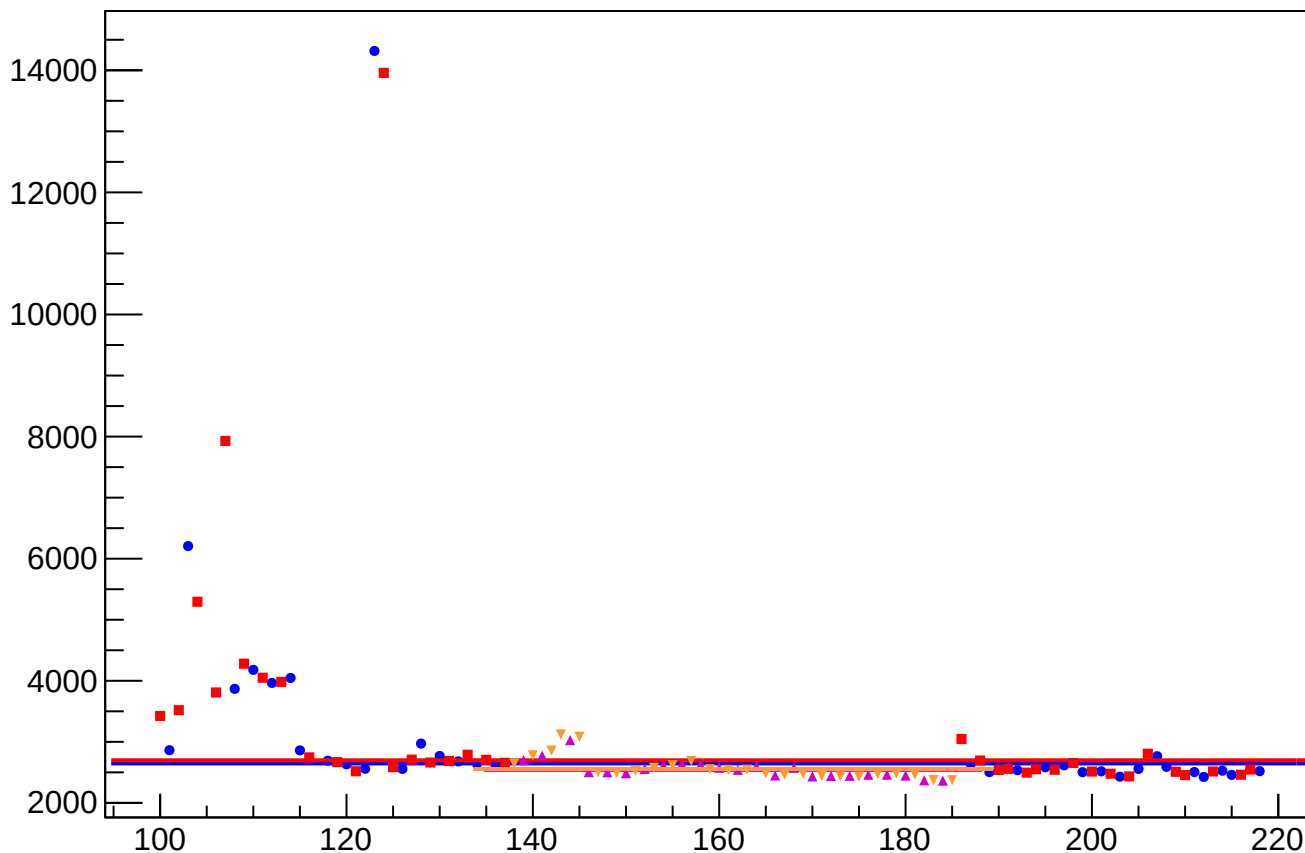
Right: 1576.751 $\pm$ 447.079 χ^2/NDF : 72.1/68

In: 1625.269 $\pm$ 438.019 χ^2/NDF : 48.0/55

Out: 1052.427 $\pm$ 435.132 χ^2/NDF : 68.9/60

All: 1336.954 $\pm$ 308.701 χ^2/NDF : 117.8/116

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2646.296 $\pm$ 0.445 χ^2 /NDF: 813810.7/32

Left Out: 2555.279 $\pm$ 0.422 χ^2 /NDF:154743.6/24

Right Out: 2697.839 $\pm$ 0.449 χ^2 /NDF: 1295876.3/35

Left In: 2540.988 $\pm$ 0.431 χ^2 /NDF:94756.7/22

Left: 2548.287 $\pm$ 0.302 χ^2 /NDF: 250060.8/47

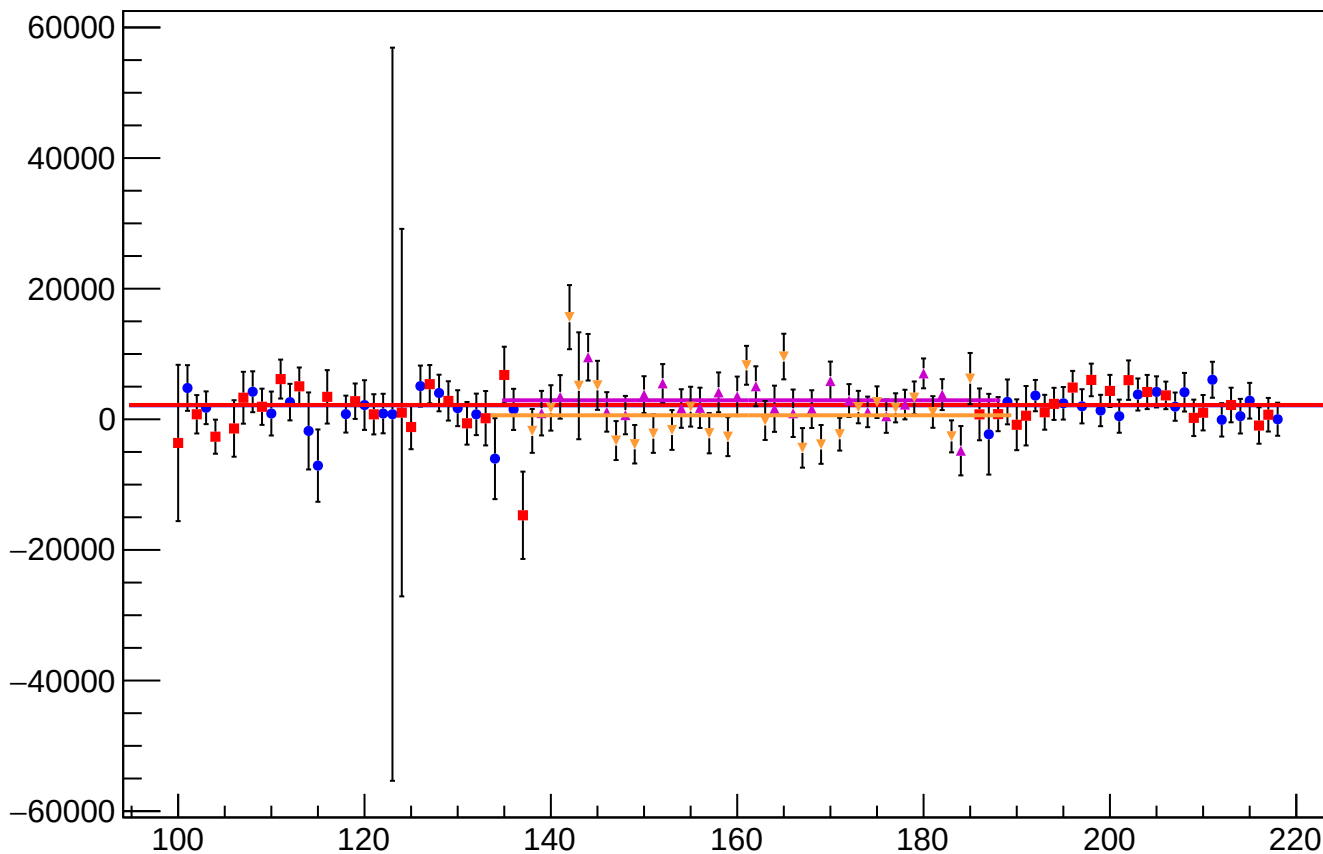
Right: 2671.819 $\pm$ 0.316 χ^2 /NDF: 2116331.9/68

In: 2592.017 $\pm$ 0.310 χ^2 /NDF:937440.9/55

Out: 2622.149 $\pm$ 0.308 χ^2 /NDF:1504083.1/60

All: 2607.183 $\pm$ 0.218 χ^2 /NDF: 2446287.4/11

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2144.764 $\pm$ 511.726 χ^2 /NDF: 15.2/32

Left Out: 614.867 $\pm$ 591.148 χ^2 /NDF: 45.2/24

Right Out: 2196.737 $\pm$ 508.350 χ^2 /NDF: 29.0/35

Left In: 2909.108 $\pm$ 599.673 χ^2 /NDF: 17.4/22

Left: 1745.562 $\pm$ 420.986 χ^2 /NDF: 70.0/47

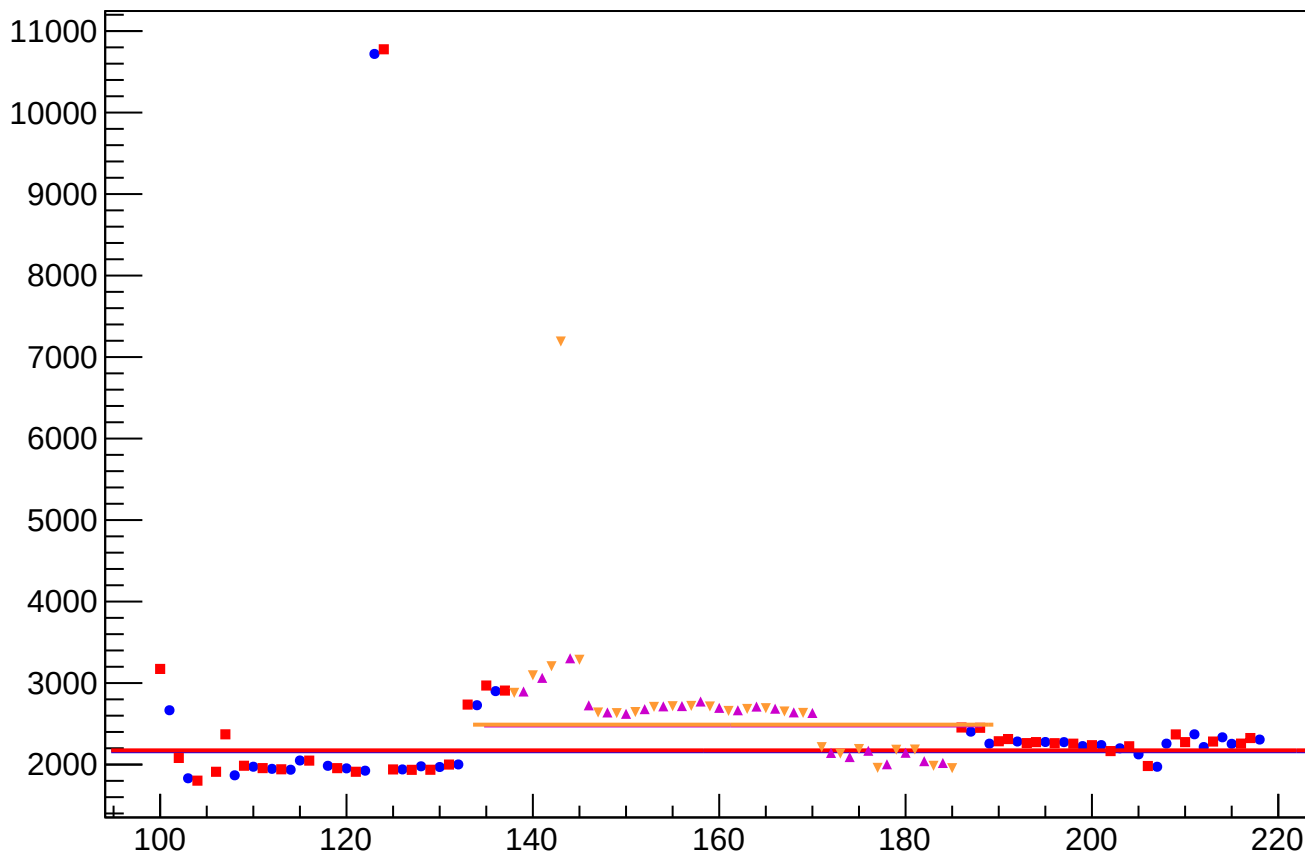
Right: 2170.922 $\pm$ 360.645 χ^2 /NDF: 44.3/68

In: 2466.828 $\pm$ 389.262 χ^2 /NDF: 33.6/55

Out: 1524.253 $\pm$ 385.435 χ^2 /NDF: 78.3/60

All: 1990.885 $\pm$ 273.887 χ^2 /NDF: 114.8/116

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2163.561 $\pm$ 0.362 χ^2 /NDF: 417488.8/32

Left Out: 2489.577 $\pm$ 0.418 χ^2 /NDF: 1364203.3/24

Right Out: 2174.127 $\pm$ 0.359 χ^2 /NDF: 576535.3/35

Left In: 2479.348 $\pm$ 0.424 χ^2 /NDF: 668398.2/22

Left: 2484.536 $\pm$ 0.298 χ^2 /NDF: 2032896.6/47

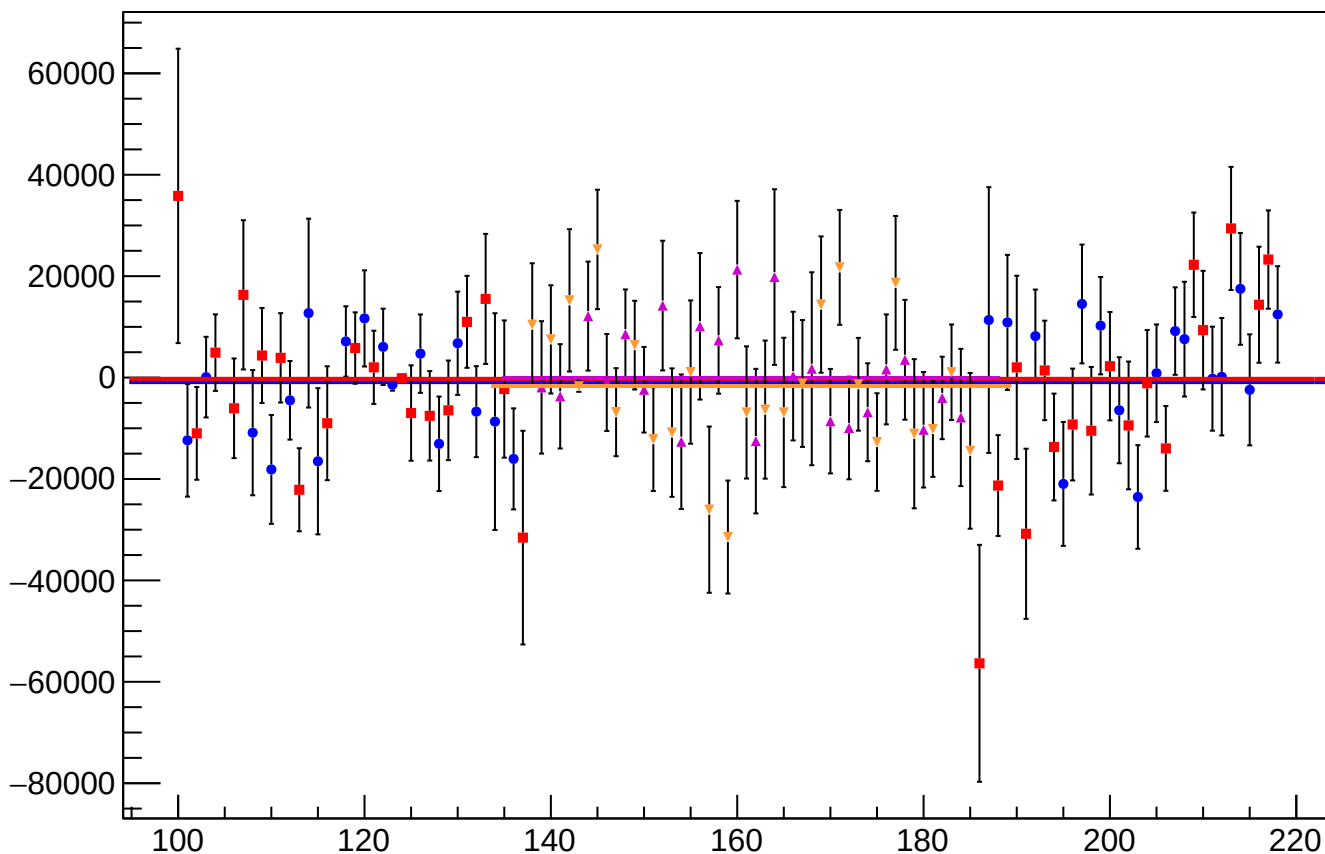
Right: 2168.879 $\pm$ 0.255 χ^2 /NDF: 994453.3/68

In: 2296.621 $\pm$ 0.275 χ^2 /NDF: 1406808.3/55

Out: 2308.230 $\pm$ 0.273 χ^2 /NDF: 2268136.6/60

All: 2302.483 $\pm$ 0.194 χ^2 /NDF: 3675843.1/11

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -895.666 ± 981.439 χ^2/NDF : 35.7/32

Left Out: -1665.417 ± 993.060 χ^2/NDF : 32.4/24

Right Out: -246.729 ± 674.049 χ^2/NDF : 59.7/35

Left In: -80.274 ± 2331.531 χ^2/NDF : 13.8/22

Left: -1422.008 ± 913.639 χ^2/NDF : 46.6/47

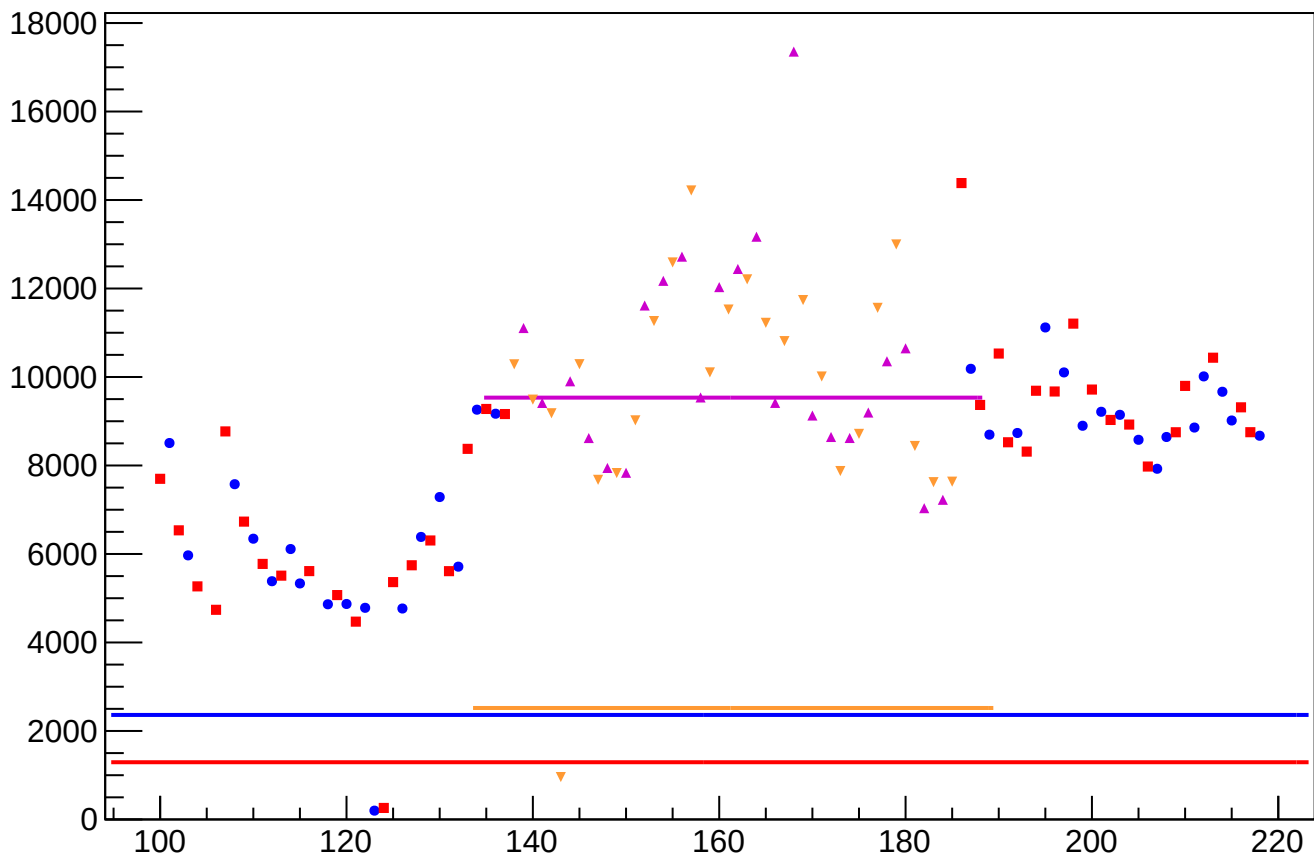
Right: -454.719 ± 555.627 χ^2/NDF : 95.8/68

In: -772.932 ± 904.565 χ^2/NDF : 49.6/55

Out: -694.188 ± 557.710 χ^2/NDF : 93.5/60

All: -715.877 ± 474.731 χ^2/NDF : 143.2/116

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2362.166+/-0.694

χ^2/NDF : 24576057.5/32

Left: 3596.432+/-0.646 χ^2/NDF : 40280305.8/47

Right: 1635.869+/-0.393 χ^2/NDF : 55951890.4/68

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

In: 3441.611+/-0.640 χ^2/NDF : 41966101.9/55

Right Out: 1293.281+/-0.477

χ^2/NDF : 29763893.7/35

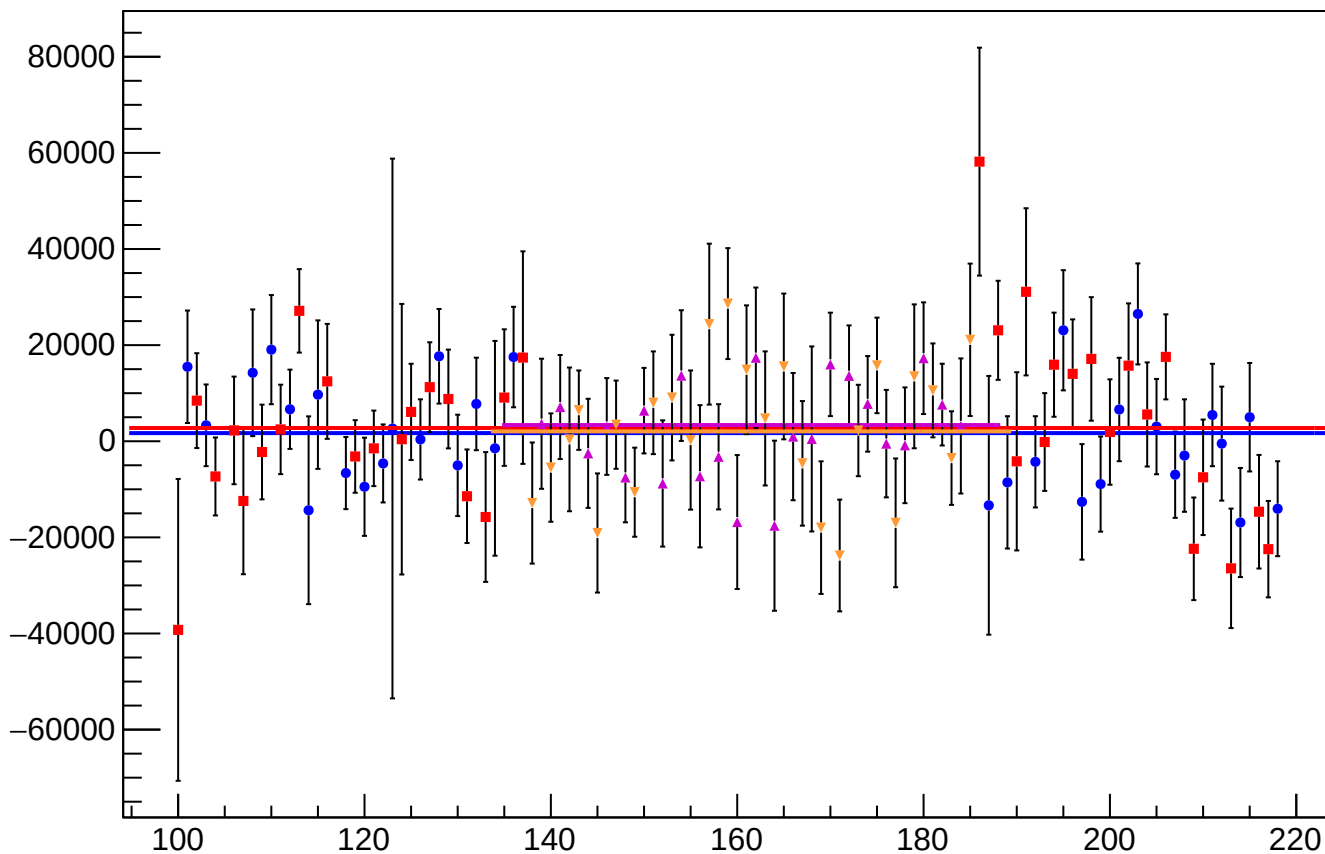
Out: 1679.991+/-0.394 χ^2/NDF : 55493141.5/60

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 2165.200+/-0.336 χ^2/NDF : 102955331.1

asym_atl2_mean vs Slug, Sign Corrected



Right In: 1695.924+/-1872.356 χ^2/NDF : 33.9/32

Left Out: 2055.950+/-2333.494 χ^2/NDF :30.7/24

Right Out: 2763.244+/-1844.110 χ^2/NDF : 60.4/35

Left In: 3371.931+/-2423.242 χ^2/NDF :13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47

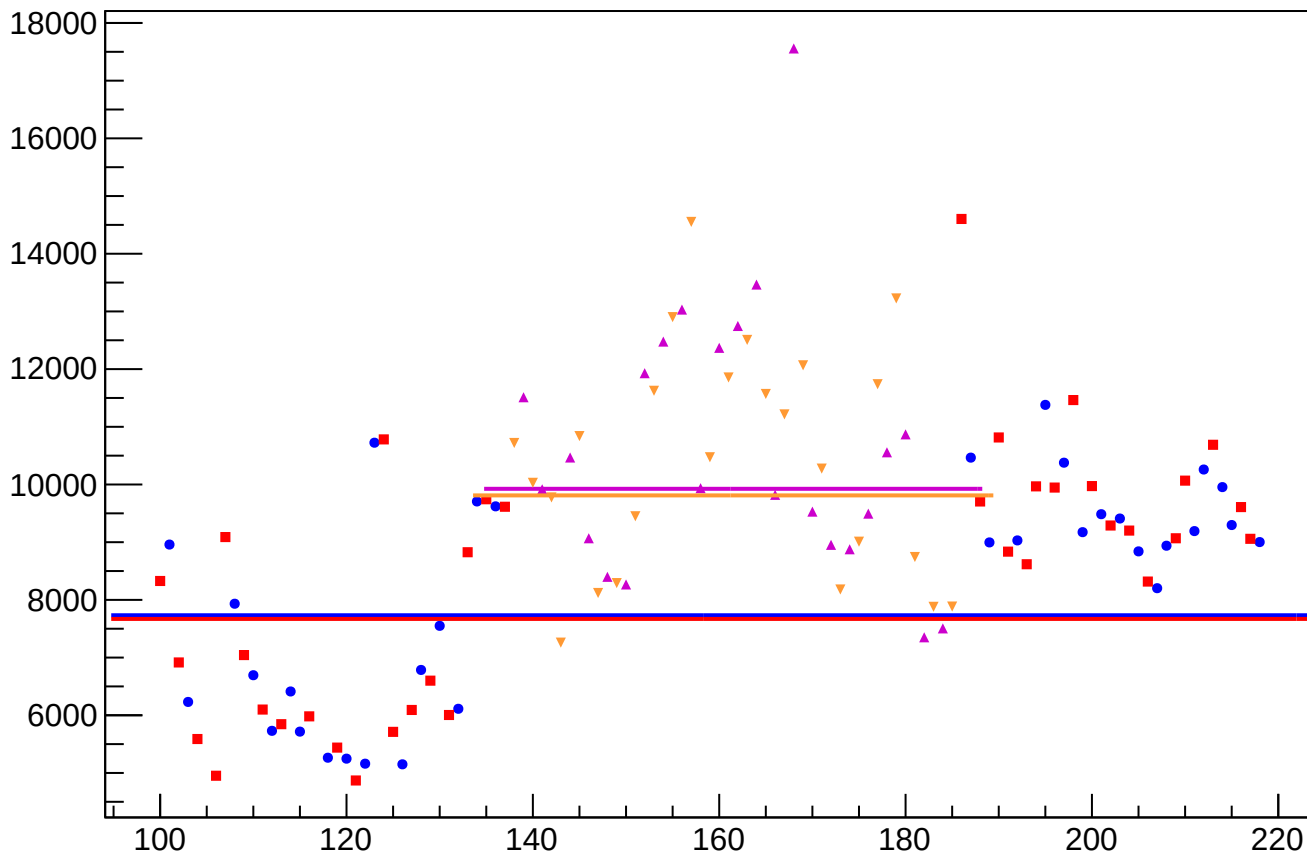
Right: 2237.696+/-1313.855 χ^2/NDF : 94.5/68

In: 2322.467+/-1481.611 χ^2/NDF :47.3/55

Out: 2491.331+/-1446.844 χ^2/NDF :91.2/60

All: 2408.904+/-1035.146 χ^2/NDF : 138.5/116

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7733.503+/-1.324

χ^2/NDF : 1968645.2/32

Left Out: 9811.053+/-1.650

χ^2/NDF : 1213831.0/24

Right Out: 7669.945+/-1.304

χ^2/NDF : 2384010.4/35

Left In: 9925.337+/-1.713

χ^2/NDF : 1211554.7/22

Left: 9866.039+/-1.189 χ^2/NDF : 2427693.8/47

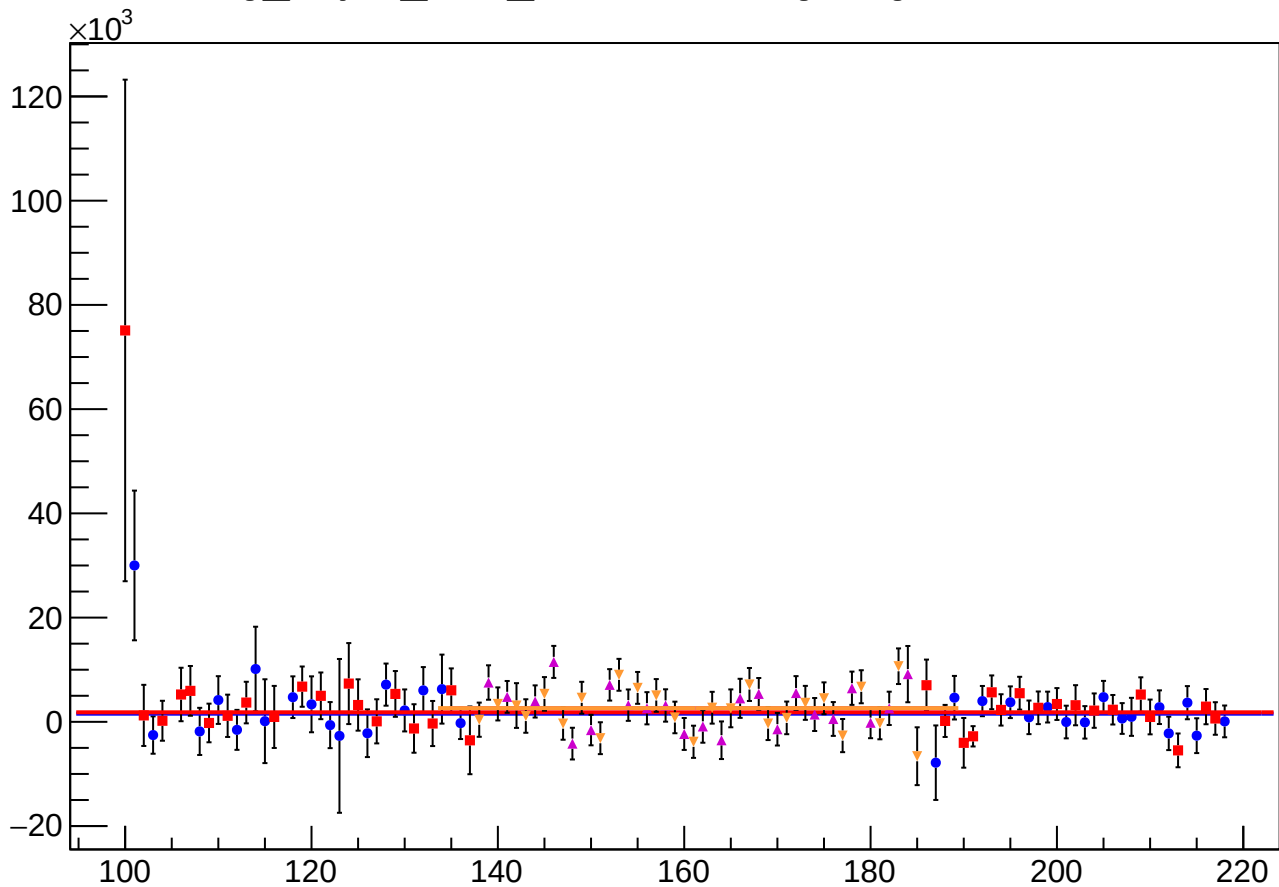
Right: 7701.240+/-0.929 χ^2/NDF : 4353825.5/68

In: 8552.852+/-1.048 χ^2/NDF : 4204793.6/55

Out: 8493.021+/-1.023 χ^2/NDF : 4634368.6/60

All: 8522.226+/-0.732 χ^2/NDF : 8840831.7/11

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1562.808 $\pm$ 661.984 χ^2/NDF : 22.7/32

Left Out: 2635.833 $\pm$ 646.121 χ^2/NDF : 35.1/24

Right Out: 1827.539 $\pm$ 621.710 χ^2/NDF : 28.4/35

Left In: 2638.607 $\pm$ 664.569 χ^2/NDF : 35.2/22

Left: 2637.181 $\pm$ 463.261 χ^2/NDF : 70.3/47

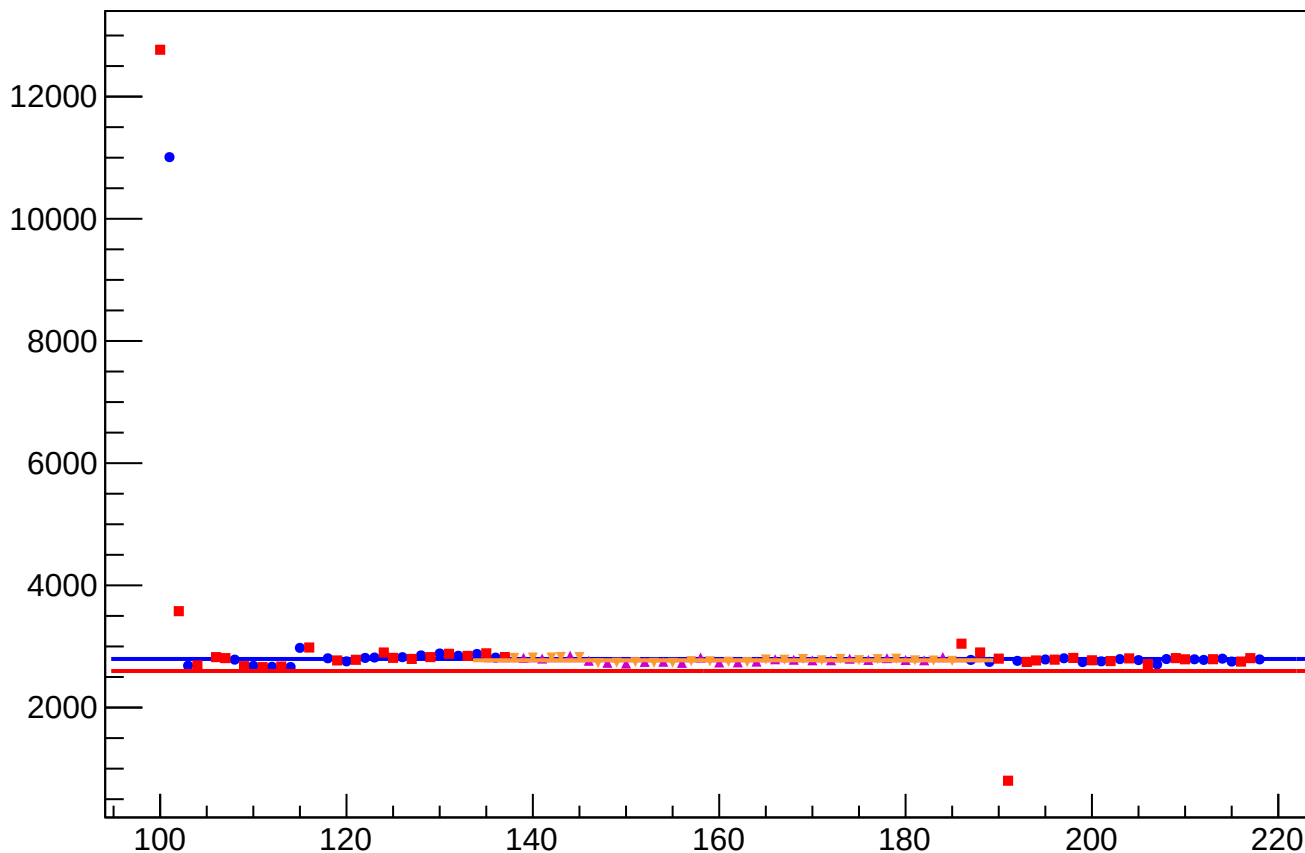
Right: 1703.471 $\pm$ 453.185 χ^2/NDF : 51.2/68

In: 2098.611 $\pm$ 469.005 χ^2/NDF : 59.2/55

Out: 2216.129 $\pm$ 447.997 χ^2/NDF : 64.3/60

All: 2160.061 $\pm$ 323.954 χ^2/NDF : 123.6/116

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2795.373+/-0.468 χ^2/NDF : 667046.5/32

Left Out: 2773.713+/-0.457 χ^2/NDF : 4616.5/24

Right Out: 2598.312+/-0.440 χ^2/NDF : 2036679.0/35

Left In: 2774.036+/-0.470 χ^2/NDF : 4985.3/22

Left: 2773.870+/-0.328 χ^2/NDF : 9602.0/47

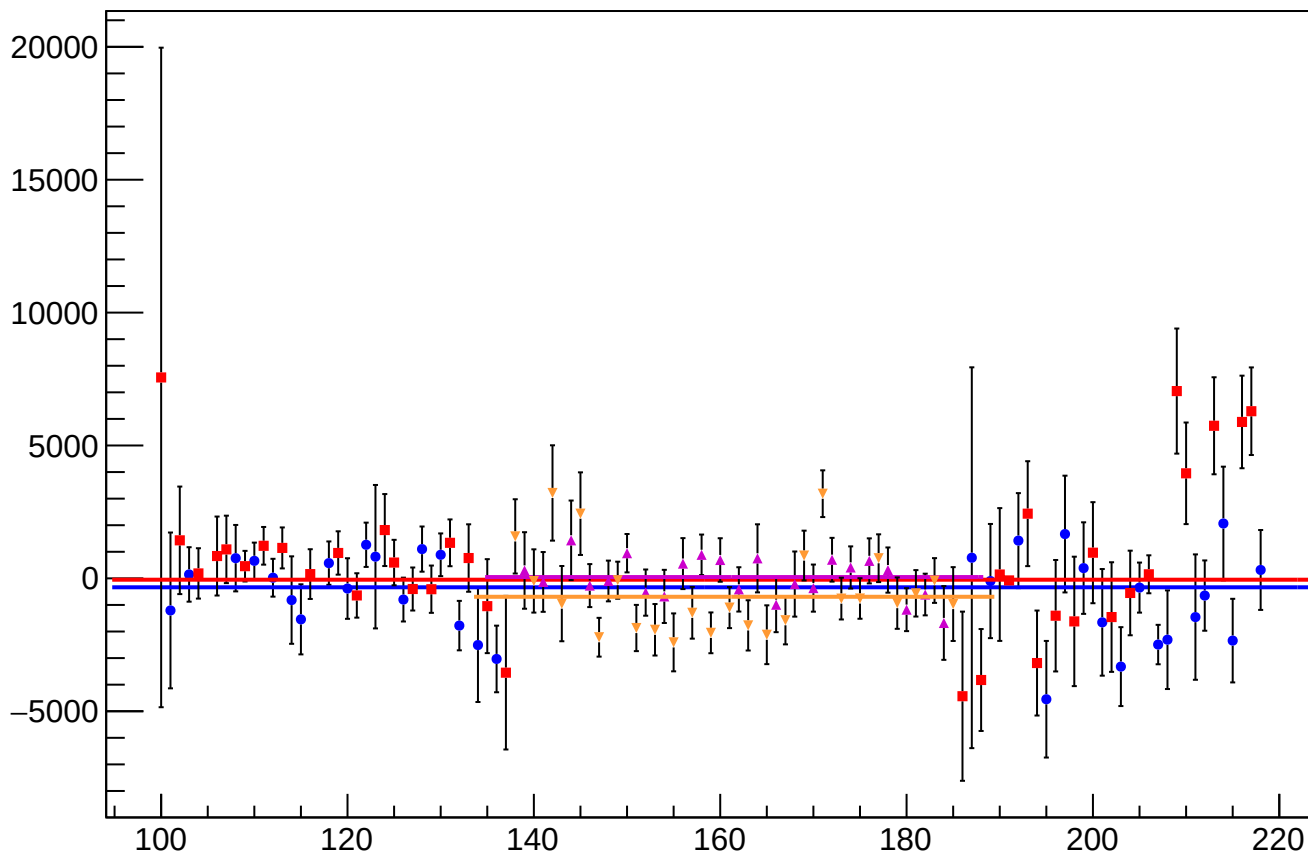
Right: 2690.666+/-0.320 χ^2/NDF : 2797895.4/68

In: 2784.746+/-0.332 χ^2/NDF : 673066.7/55

Out: 2682.637+/-0.317 χ^2/NDF : 2117827.6/60

All: 2731.353+/-0.229 χ^2/NDF : 2840464.9/11

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -335.960 ± 203.844 $\chi^2/\text{NDF}: 46.1/32$

Left Out: -692.808 ± 187.297 $\chi^2/\text{NDF}: 56.0/24$

Right Out: -50.602 ± 37.784 $\chi^2/\text{NDF}: 80.2/35$

Left In: 49.244 ± 189.190 $\chi^2/\text{NDF}: 13.6/22$

Left: -325.512 ± 133.103 $\chi^2/\text{NDF}: 77.4/47$

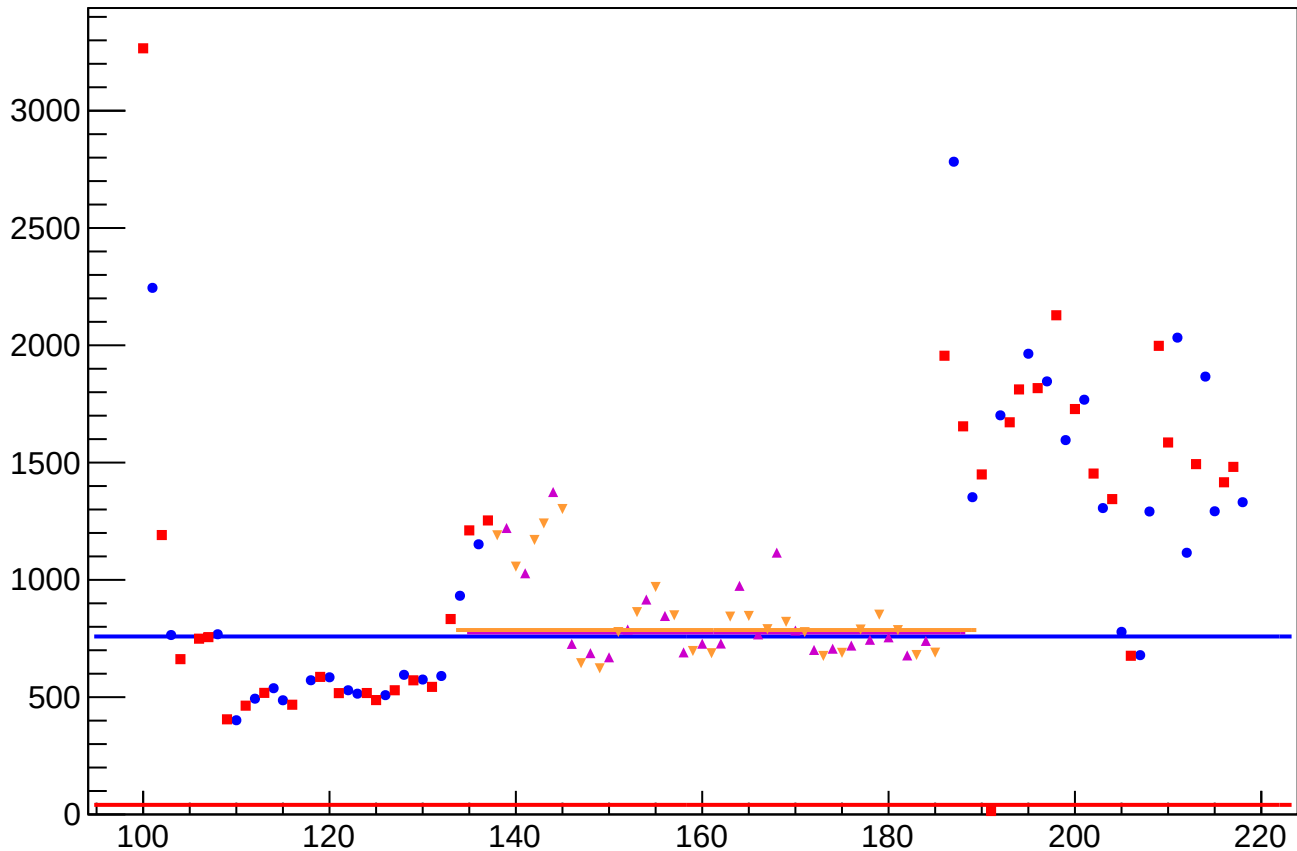
Right: -60.081 ± 37.151 $\chi^2/\text{NDF}: 128.2/68$

In: -129.016 ± 138.669 $\chi^2/\text{NDF}: 61.7/55$

Out: -75.715 ± 37.037 $\chi^2/\text{NDF}: 147.5/60$

All: -79.264 ± 35.783 $\chi^2/\text{NDF}: 209.3/116$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 758.687+/-0.144

χ^2/NDF : 7598849.3/32

Left Out: 786.173+/-0.132

χ^2/NDF :1249536.1/24

Right Out: 40.875+/-0.027

χ^2/NDF : 33616349.9/35

Left In: 775.930+/-0.134

χ^2/NDF :1056766.5/22

Left: 781.103+/-0.094

χ^2/NDF : 2309263.4/47

Right: 64.718+/-0.026

χ^2/NDF : 65191691.1/68

In: 767.950+/-0.098

χ^2/NDF :8663304.6/55

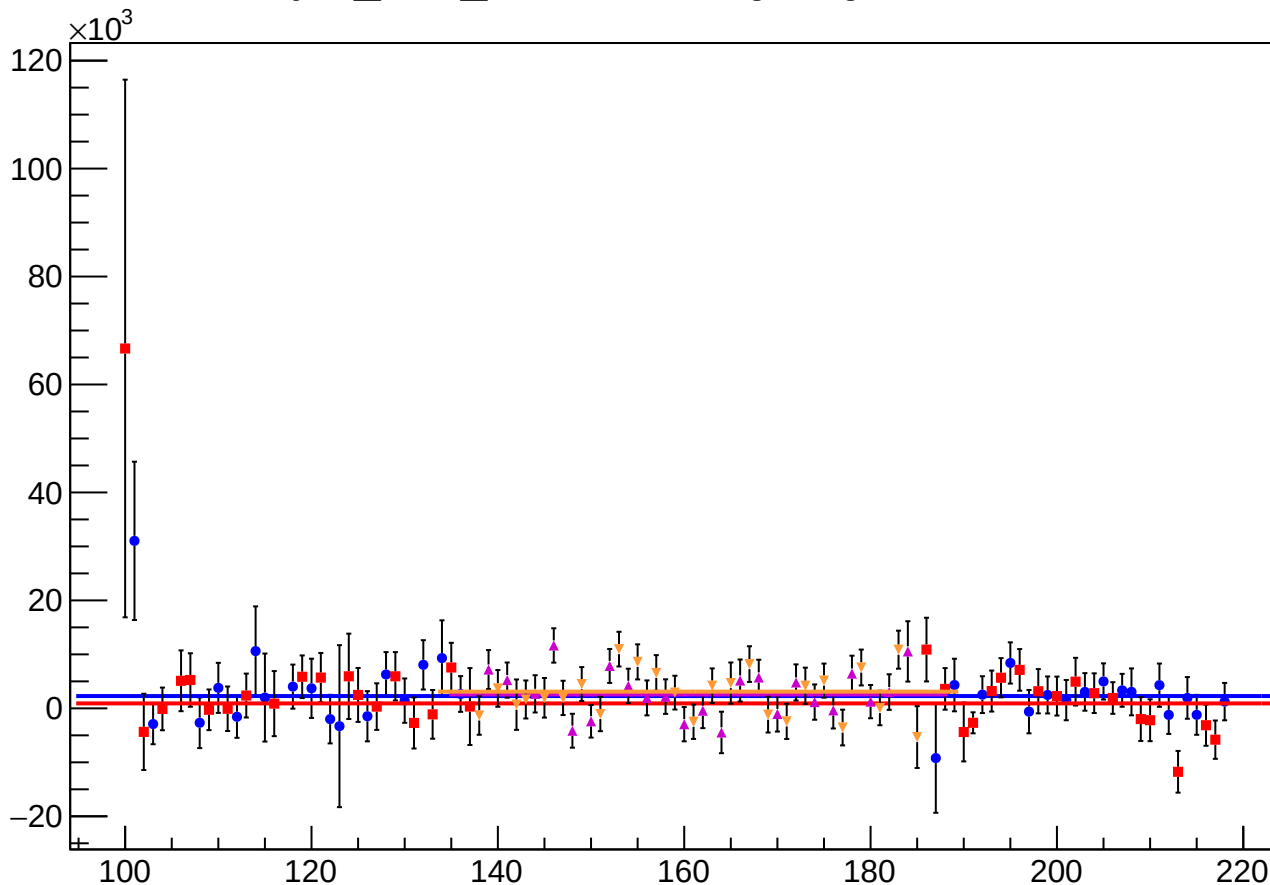
Out: 70.019+/-0.026

χ^2/NDF :65295992.4/60

All: 116.493+/-0.025

χ^2/NDF : 121249476.8/1

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2277.660 $\pm$ 733.592 χ^2 /NDF: 22.2/32

Left Out: 3094.826 $\pm$ 678.510 χ^2 /NDF: 38.7/24

Right Out: 915.583 $\pm$ 684.670 χ^2 /NDF: 42.0/35

Left In: 2573.184 $\pm$ 695.795 χ^2 /NDF: 35.7/22

Left: 2840.565 $\pm$ 485.775 χ^2 /NDF: 74.6/47

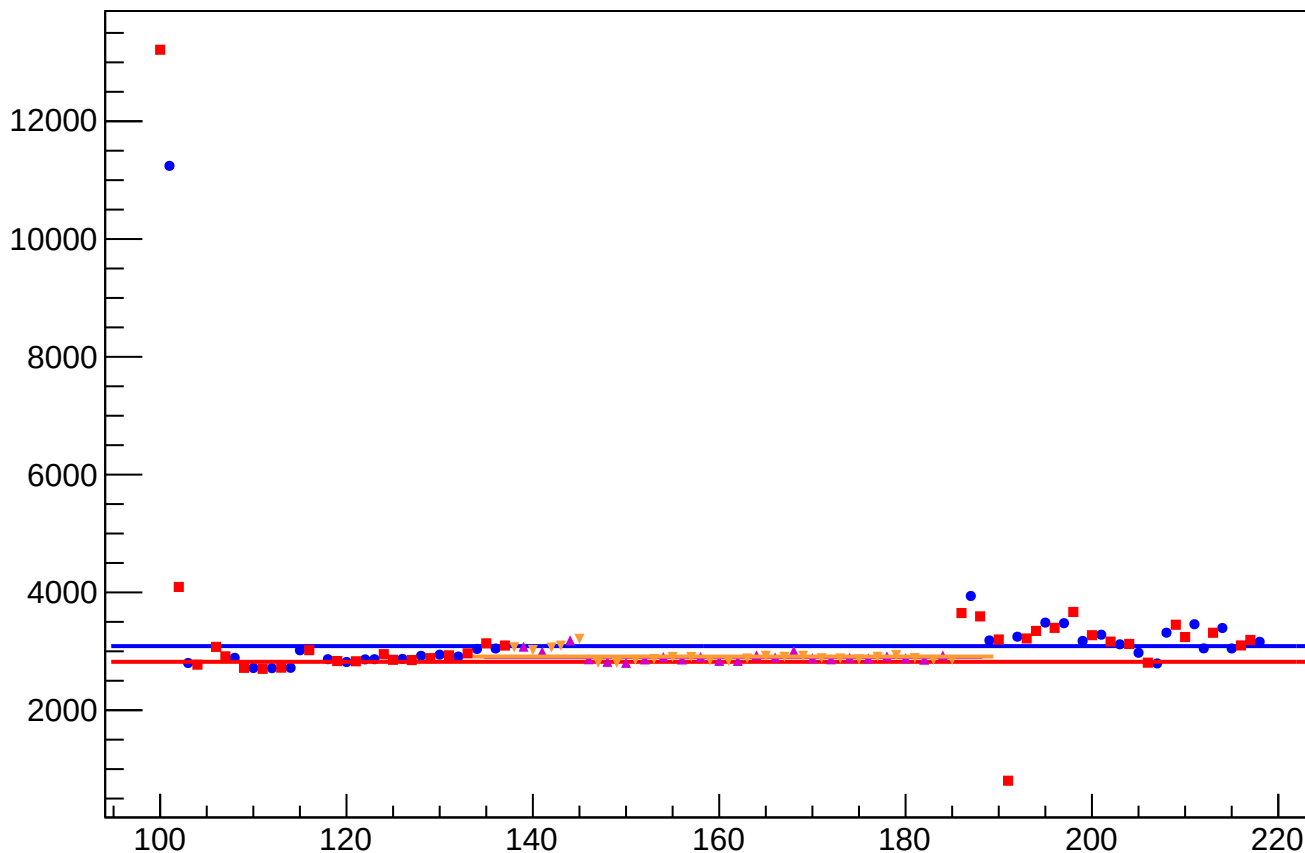
Right: 1549.694 $\pm$ 500.537 χ^2 /NDF: 66.0/68

In: 2433.231 $\pm$ 504.835 χ^2 /NDF: 58.0/55

Out: 2015.052 $\pm$ 481.942 χ^2 /NDF: 85.7/60

All: 2214.445 $\pm$ 348.597 χ^2 /NDF: 144.1/116

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3088.240+/-0.519 χ^2/NDF : 822977.9/32

Left Out: 2911.226+/-0.480 χ^2/NDF : 36644.3/24

Right Out: 2821.501+/-0.484 χ^2/NDF : 2843359.5/35

Left In: 2903.411+/-0.492 χ^2/NDF : 28838.5/22

Left: 2907.416+/-0.343 χ^2/NDF : 65612.1/47

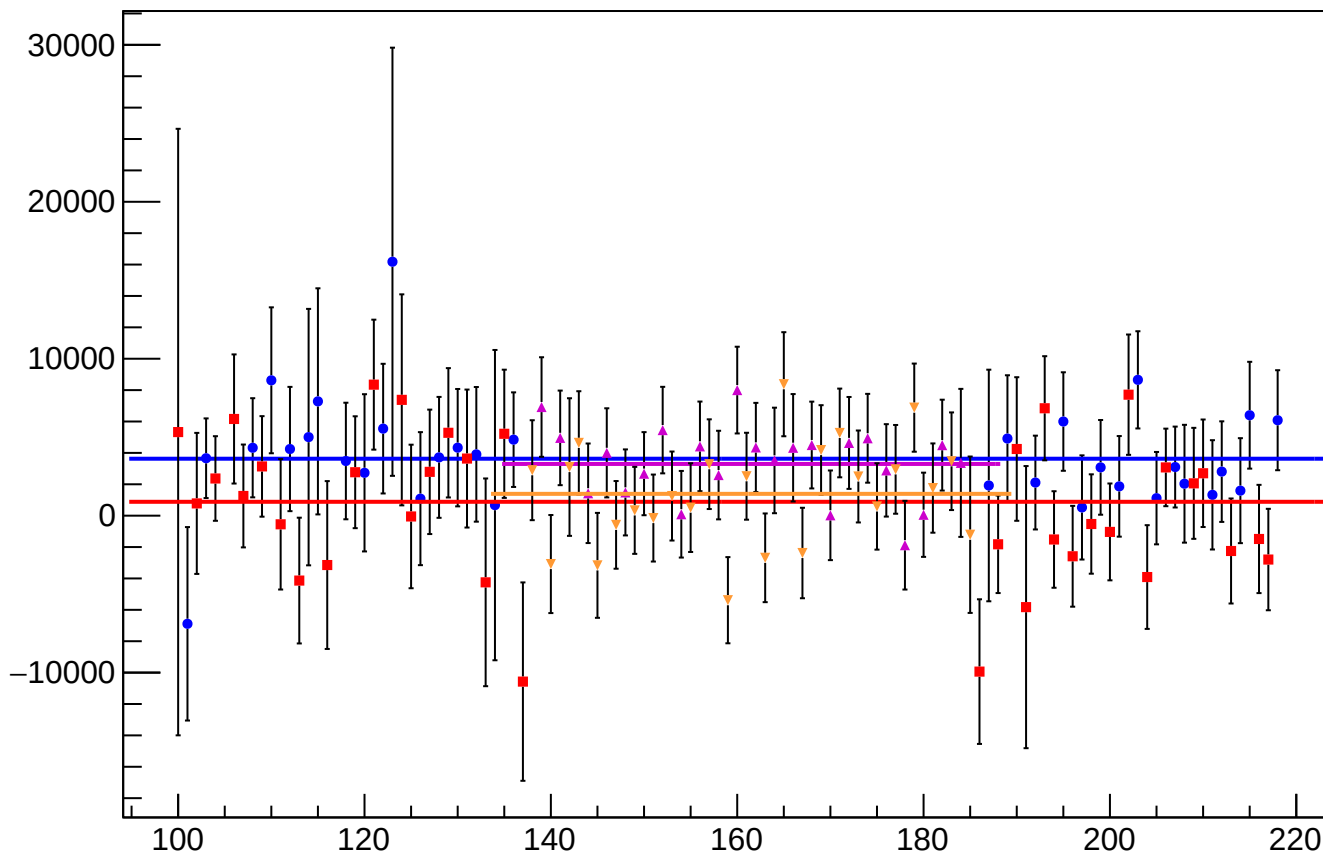
Right: 2945.680+/-0.354 χ^2/NDF : 3807656.6/68

In: 2990.941+/-0.357 χ^2/NDF : 918650.4/55

Out: 2866.769+/-0.341 χ^2/NDF : 2897332.5/60

All: 2925.976+/-0.246 χ^2/NDF : 3879287.6/11

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3628.888+/-637.782 χ^2/NDF : 14.1/32

Left Out: 1390.275+/-596.516 χ^2/NDF : 29.2/24

Right Out: 884.014+/-626.144 χ^2/NDF : 38.1/35

Left In: 3295.367+/-609.991 χ^2/NDF : 14.9/22

Left: 2321.546+/-426.485 χ^2/NDF : 49.0/47

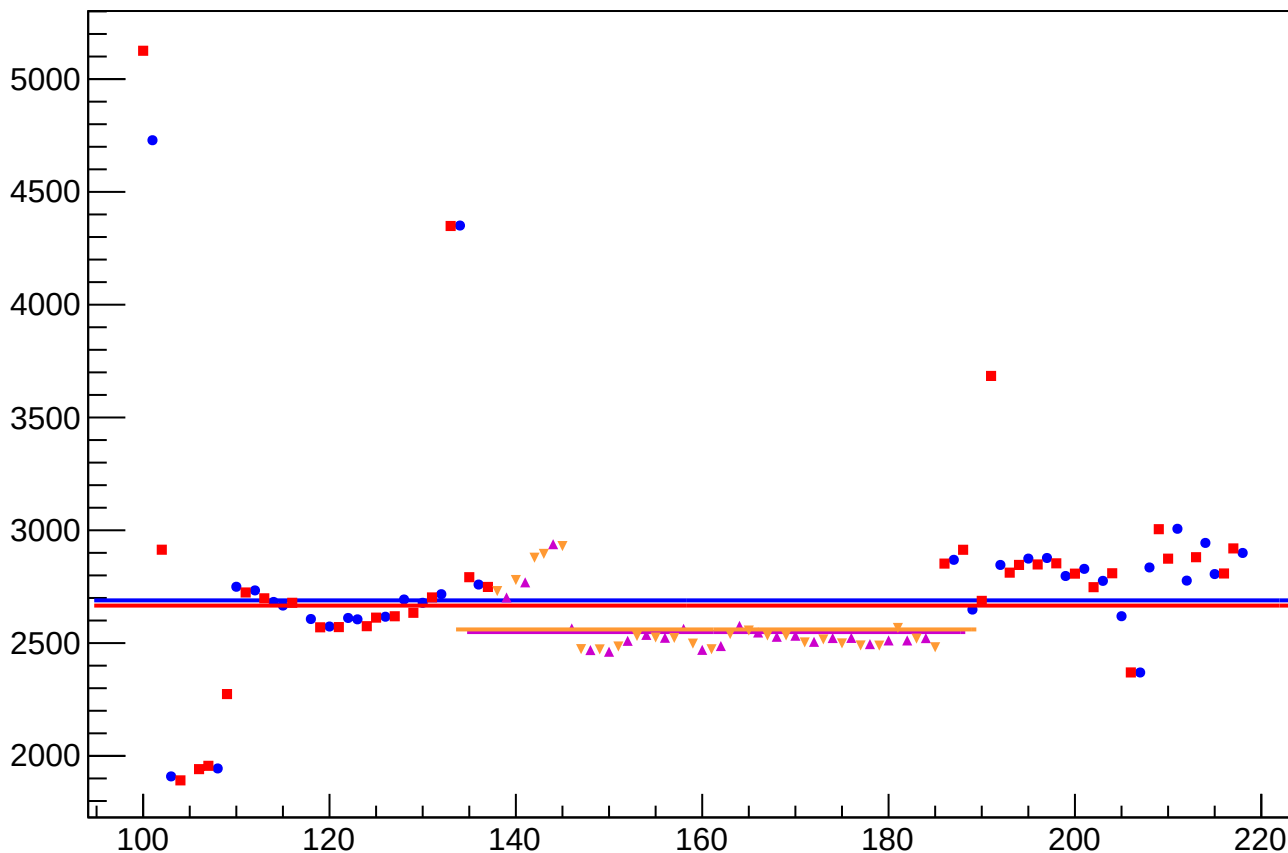
Right: 2231.180+/-446.809 χ^2/NDF : 61.6/68

In: 3454.703+/-440.826 χ^2/NDF : 29.1/55

Out: 1149.405+/-431.895 χ^2/NDF : 67.6/60

All: 2278.465+/-308.505 χ^2/NDF : 110.7/116

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2689.377+/-0.451 χ^2/NDF : 685022.6/32

Left Out: 2560.531+/-0.422 χ^2/NDF : 86771.4/24

Right Out: 2666.226+/-0.443 χ^2/NDF : 678652.1/35

Left In: 2548.870+/-0.431 χ^2/NDF : 55266.2/22

Left: 2554.831+/-0.302 χ^2/NDF : 142411.2/47

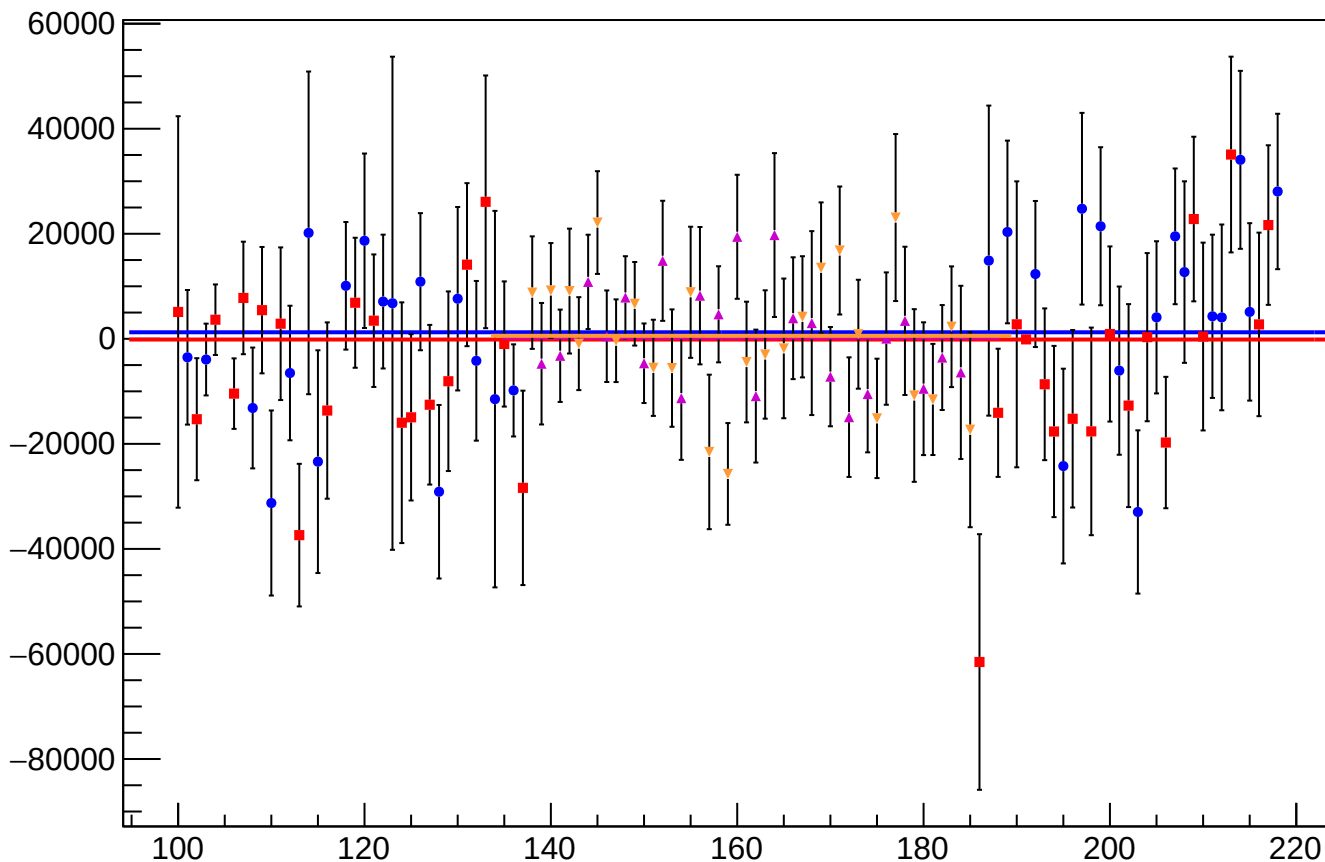
Right: 2677.588+/-0.316 χ^2/NDF : 1365016.5/68

In: 2615.996+/-0.312 χ^2/NDF : 790984.4/55

Out: 2610.819+/-0.305 χ^2/NDF : 795297.8/60

All: 2613.354+/-0.218 χ^2/NDF : 1586422.9/11

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: 1244.942 $\pm$ 2527.008 χ^2 /NDF: 37.6/32

Left Out: 572.477 $\pm$ 2184.376 χ^2 /NDF:28.2/24

Right Out: -134.348 $\pm$ 194.877 χ^2 /NDF: 41.9/35

Left In: 275.116 $\pm$ 2242.836 χ^2 /NDF:15.7/22

Left: 427.723 $\pm$ 1564.847 χ^2 /NDF: 43.9/47

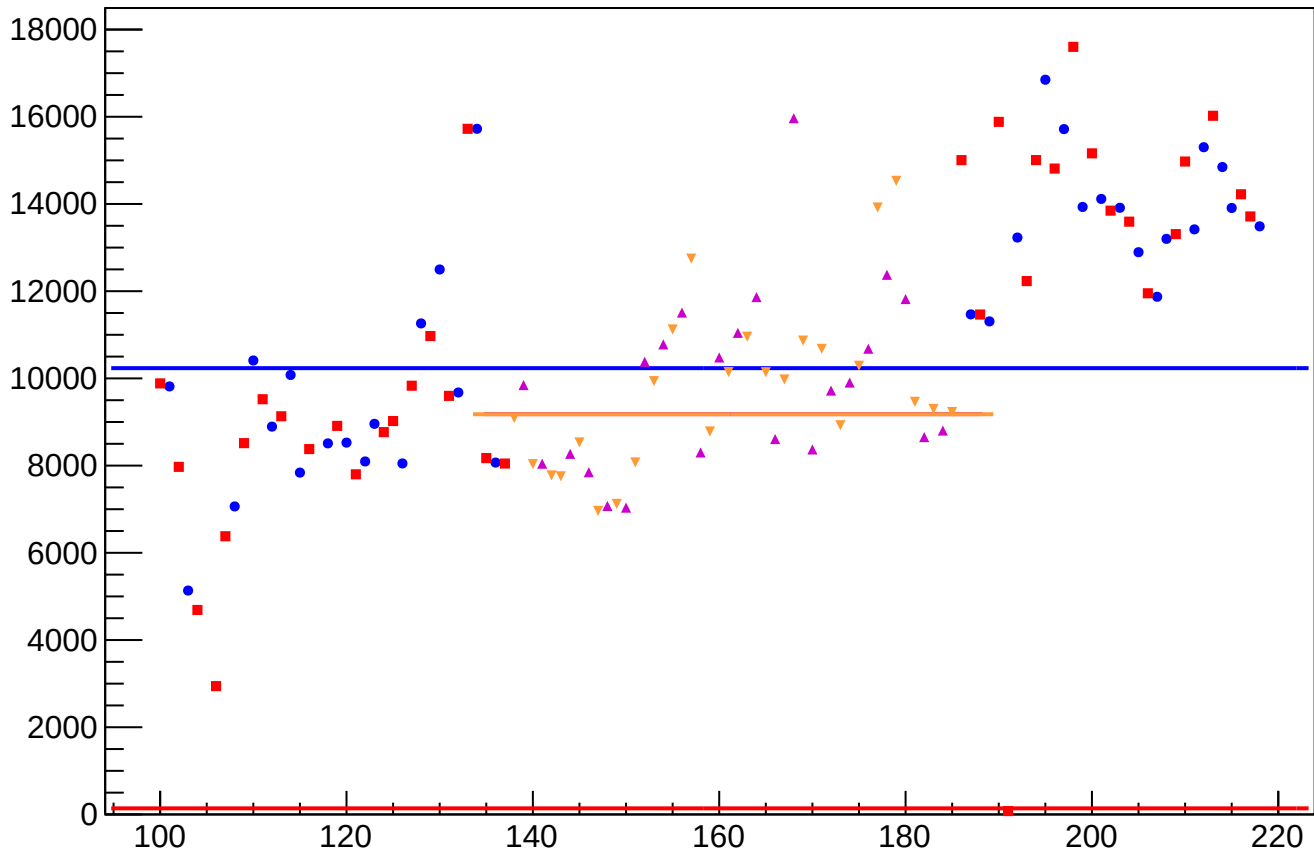
Right: -126.193 $\pm$ 194.300 χ^2 /NDF: 79.8/68

In: 702.454 $\pm$ 1677.435 χ^2 /NDF:53.4/55

Out: -128.766 $\pm$ 194.106 χ^2 /NDF:70.2/60

All: -117.783 $\pm$ 192.820 χ^2 /NDF: 123.8/116

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 10235.029+/-1.787

χ^2/NDF : 3339230.3/32

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right Out: 140.023+/-0.138

χ^2/NDF : 35722179.7/35

Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Right: 199.704+/-0.137

χ^2/NDF : 70790296.8/68

In: 9645.583+/-1.186

χ^2/NDF : 4770239.8/55

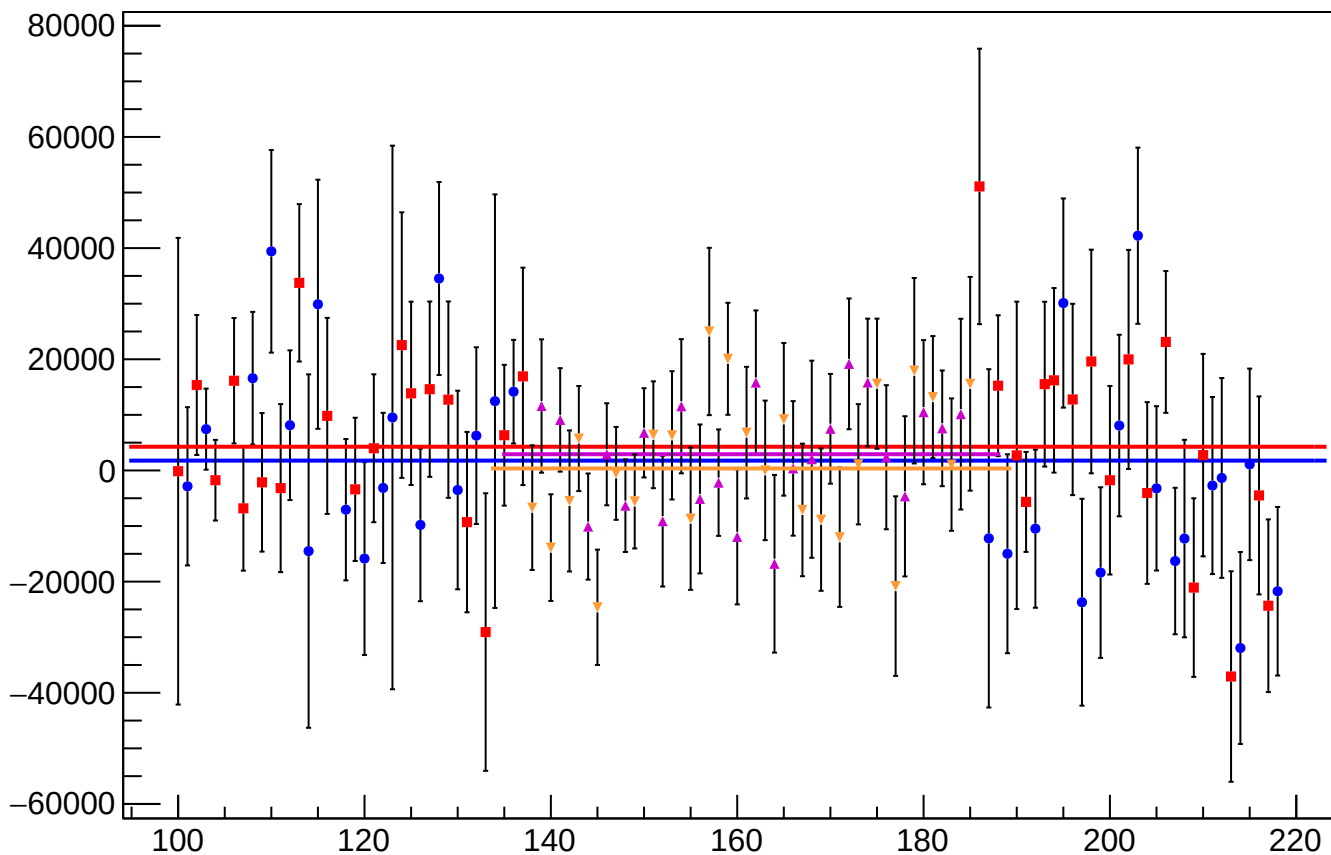
Out: 211.387+/-0.137

χ^2/NDF : 70864401.0/60

All: 336.044+/-0.136

χ^2/NDF : 138061562.2/100

asym_atr2_mean vs Slug, Sign Corrected



Right In: 1768.080 $\pm$ 2634.790 χ^2 /NDF: 39.8/32

Left Out: 355.717 $\pm$ 2281.682 χ^2 /NDF:26.2/24

Right Out: 4265.012 $\pm$ 2441.360 χ^2 /NDF: 34.9/35

Left In: 2918.356 $\pm$ 2338.461 χ^2 /NDF:14.9/22

Left: 1605.548 $\pm$ 1633.097 χ^2 /NDF: 41.8/47

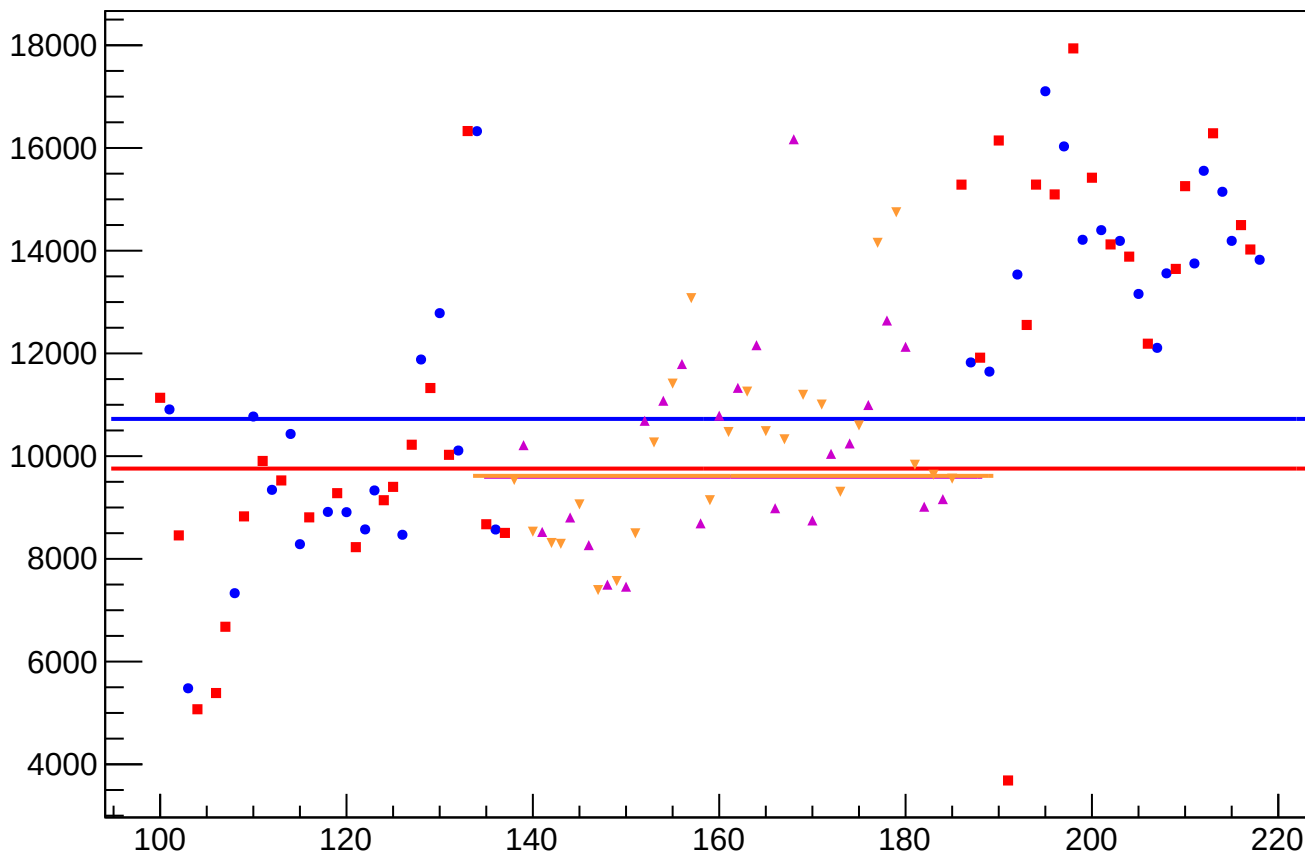
Right: 3111.555 $\pm$ 1790.784 χ^2 /NDF: 75.3/68

In: 2411.514 $\pm$ 1748.965 χ^2 /NDF:54.9/55

Out: 2178.349 $\pm$ 1666.987 χ^2 /NDF:62.5/60

All: 2289.339 $\pm$ 1206.678 χ^2 /NDF: 117.4/116

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10724.873+/-1.863 χ^2/NDF : 3018915.4/32

Left Out: 9616.245+/-1.613 χ^2/NDF : 1011665.6/24

Right Out: 9757.965+/-1.726 χ^2/NDF : 4882113.4/35

Left In: 9598.531+/-1.654 χ^2/NDF : 1082171.6/22

Left: 9607.606+/-1.155 χ^2/NDF : 2093896.0/47

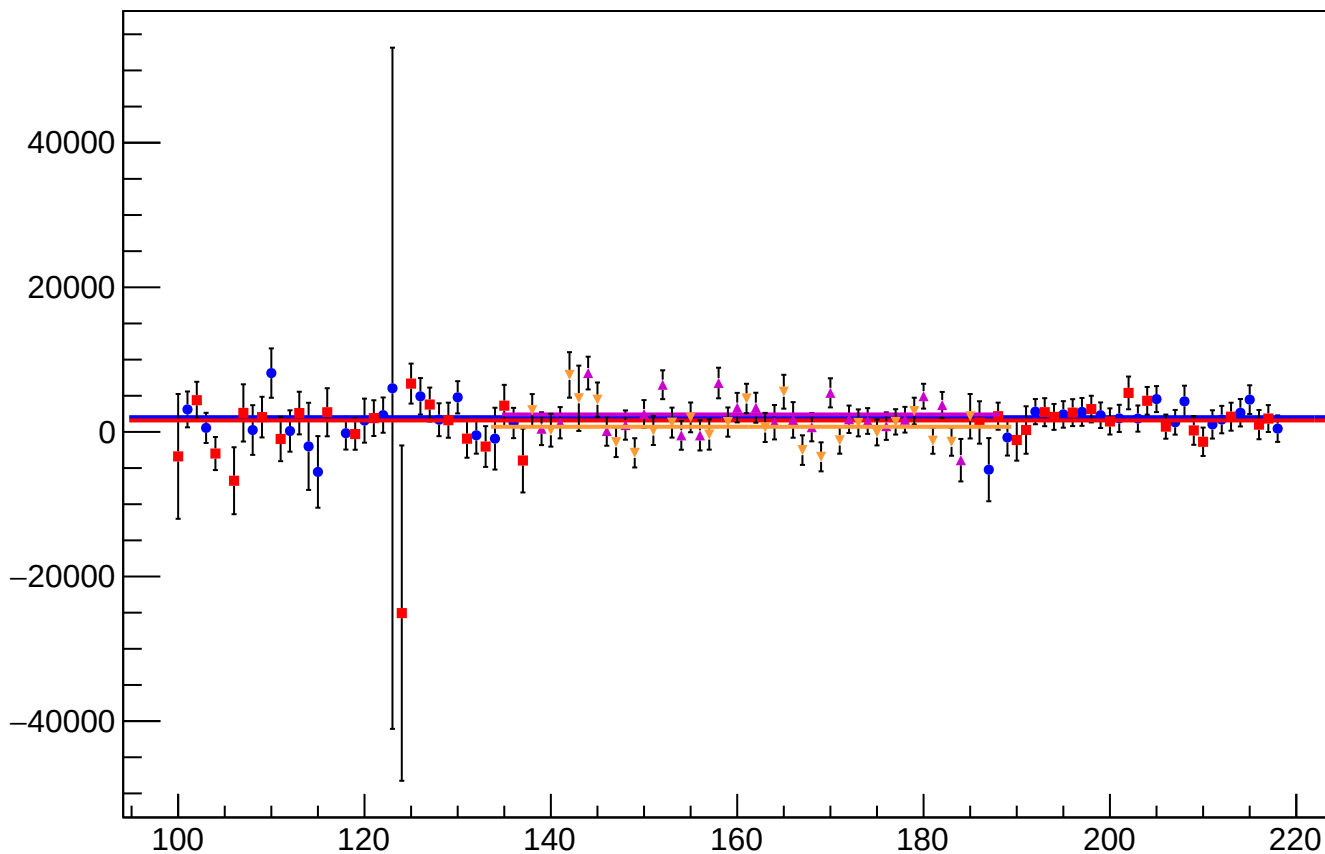
Right: 10204.614+/-1.266 χ^2/NDF : 8045953.4/68

In: 10094.827+/-1.237 χ^2/NDF : 4305533.9/55

Out: 9682.321+/-1.179 χ^2/NDF : 5897376.4/60

All: 9878.677+/-0.853 χ^2/NDF : 10261208.0/122

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 2037.255+/-393.379 χ^2/NDF : 23.0/32

Left Out: 709.722+/-417.377 χ^2/NDF :34.8/24

Right Out: 1586.150+/-394.465 χ^2/NDF : 31.5/35

Left In: 2414.749+/-423.472 χ^2/NDF :34.0/22

Left: 1549.879+/-297.262 χ^2/NDF : 77.0/47

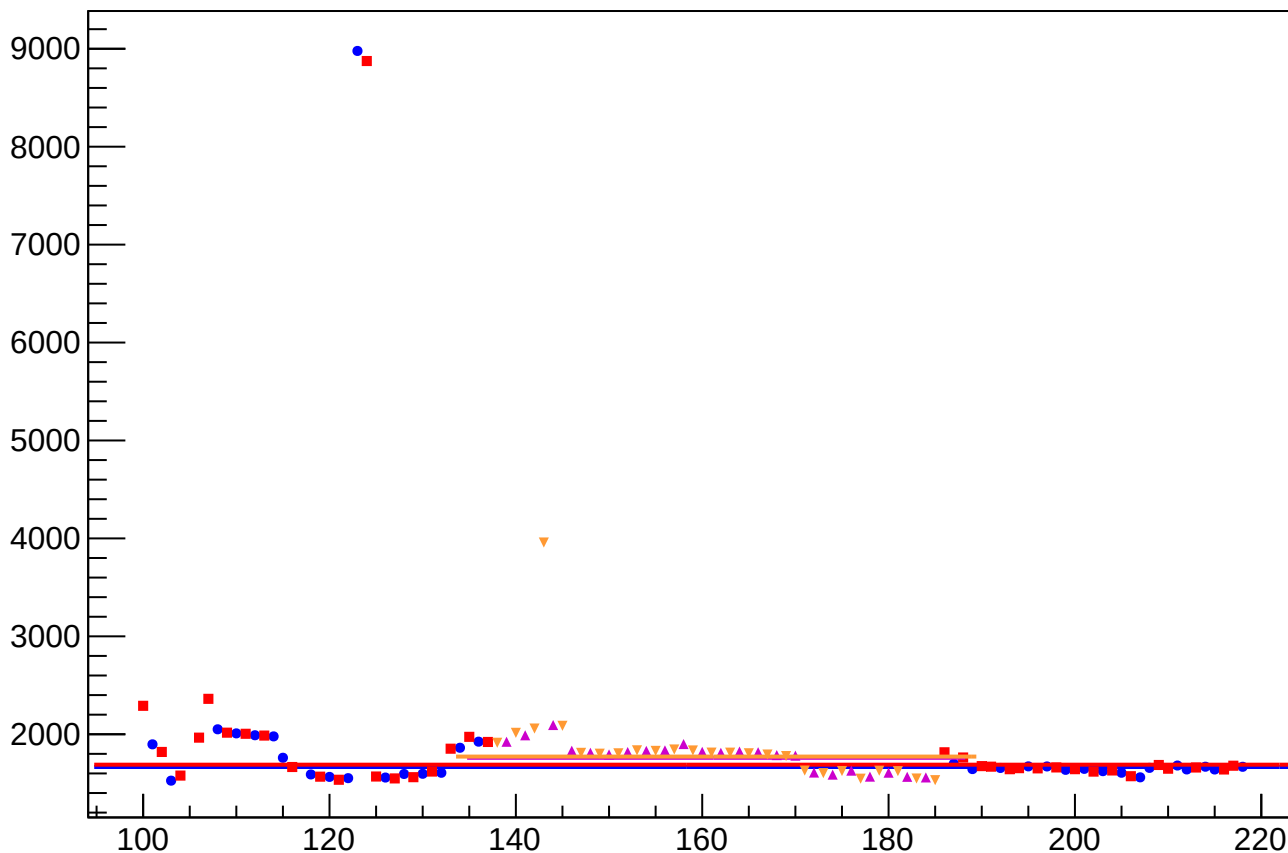
Right: 1812.325+/-278.544 χ^2/NDF : 55.2/68

In: 2212.114+/-288.213 χ^2/NDF :57.5/55

Out: 1172.651+/-286.687 χ^2/NDF :68.6/60

All: 1689.624+/-203.256 χ^2/NDF : 132.6/116

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1665.823+/-0.278 χ^2/NDF : 216558.3/32

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1689.331+/-0.278 χ^2/NDF : 439466.2/35

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

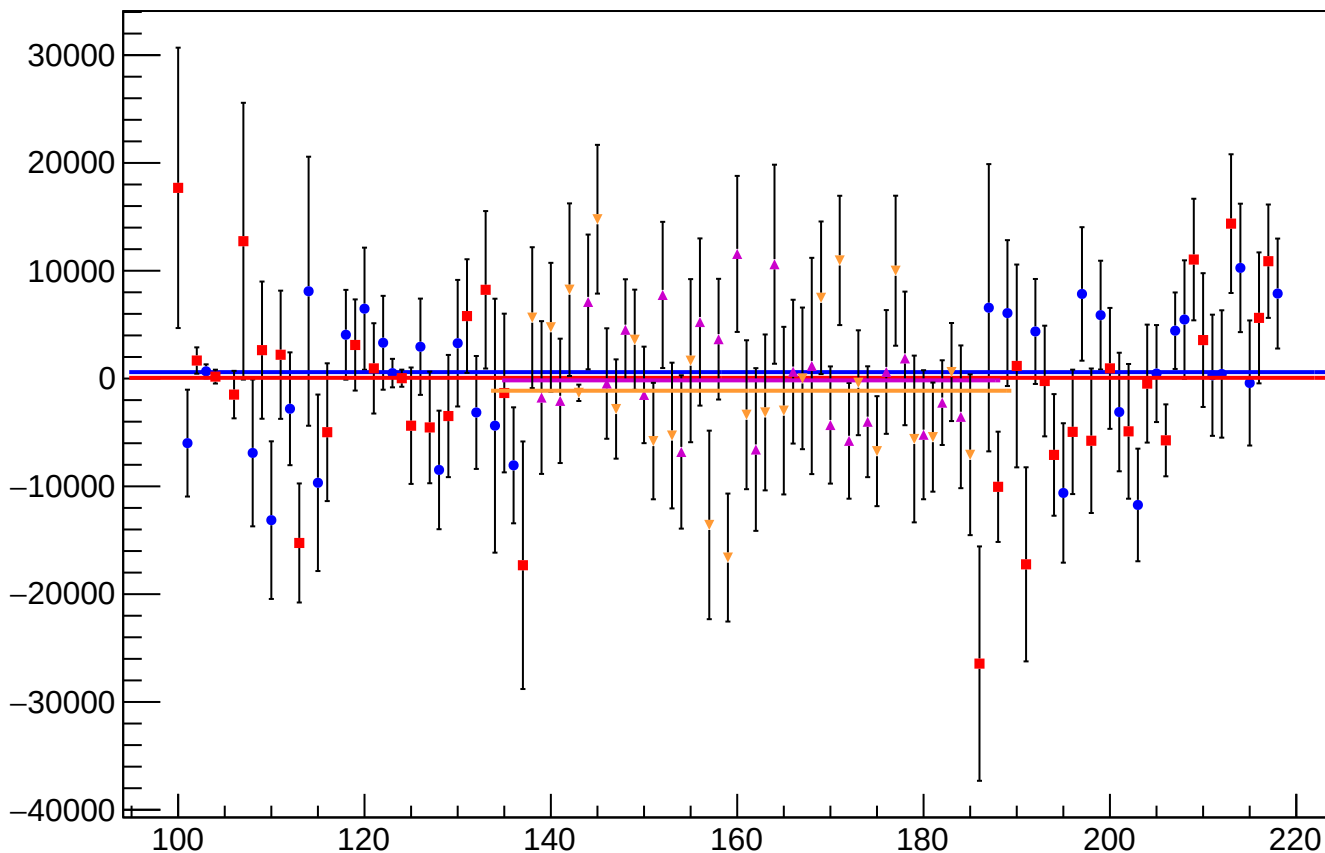
Right: 1677.563+/-0.197 χ^2/NDF : 659591.5/68

In: 1709.261+/-0.204 χ^2/NDF : 484096.8/55

Out: 1728.292+/-0.203 χ^2/NDF : 1183488.0/60

All: 1718.835+/-0.144 χ^2/NDF : 1671971.5/11

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 595.145 ± 501.998 $\chi^2/\text{NDF}: 37.1/32$

Left Out: -1129.807 ± 647.600 $\chi^2/\text{NDF}: 31.5/24$

Right Out: 67.325 ± 413.995 $\chi^2/\text{NDF}: 55.4/35$

Left In: -168.182 ± 1232.411 $\chi^2/\text{NDF}: 14.2/22$

Left: -921.734 ± 573.272 $\chi^2/\text{NDF}: 46.1/47$

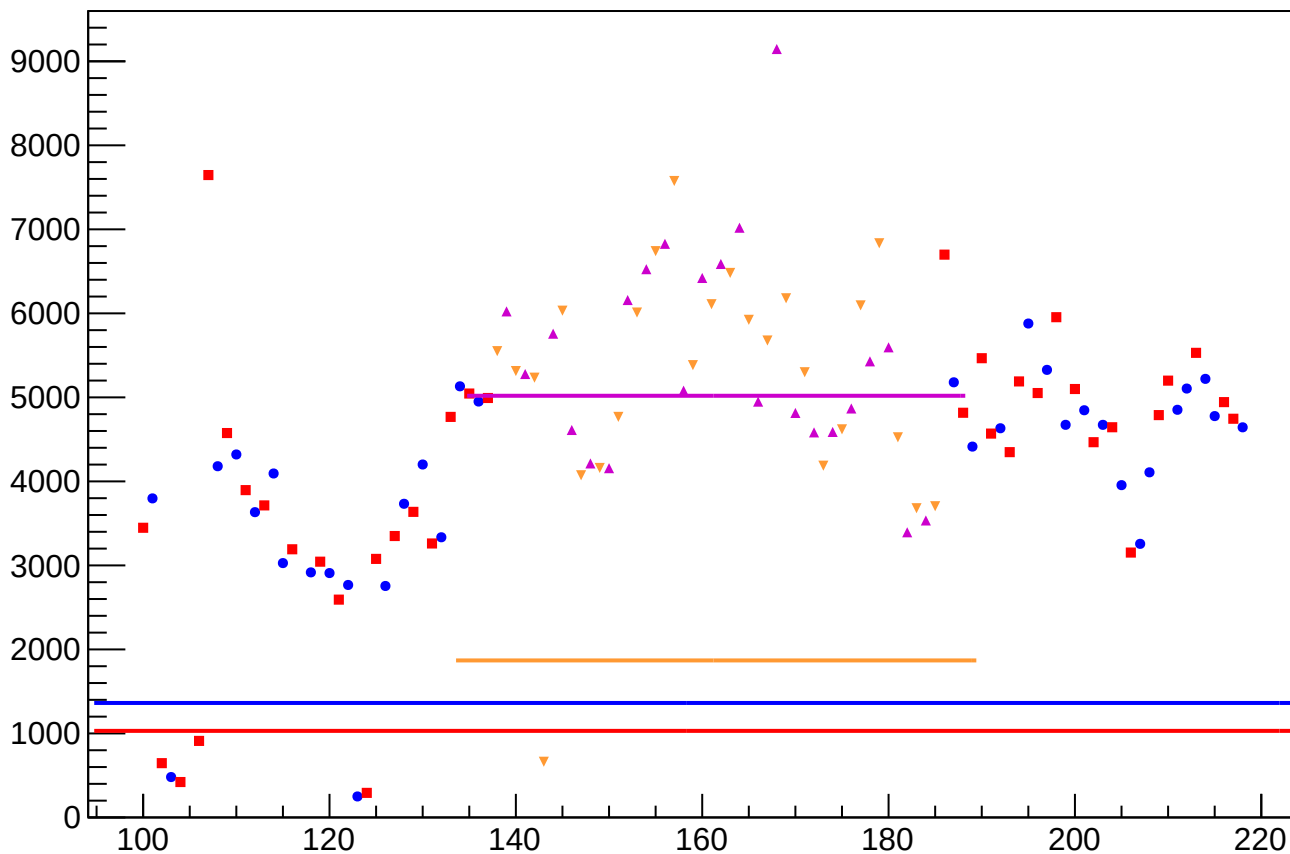
Right: 280.989 ± 319.392 $\chi^2/\text{NDF}: 93.1/68$

In: 486.519 ± 464.909 $\chi^2/\text{NDF}: 51.6/55$

Out: -279.977 ± 348.810 $\chi^2/\text{NDF}: 89.3/60$

All: -3.908 ± 279.011 $\chi^2/\text{NDF}: 142.6/116$

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1362.789 $\pm$ 0.355

χ^2/NDF : 21272785.1/32

Left: 2550.597 $\pm$ 0.405

χ^2/NDF : 31661059.7/47

Left Out: 1868.983 $\pm$ 0.458

χ^2/NDF : 19852416.6/24

Right: 1165.036 $\pm$ 0.226

χ^2/NDF : 45782404.4/68

Right Out: 1030.541 $\pm$ 0.293

χ^2/NDF : 23988170.5/35

In: 1883.109 $\pm$ 0.329

χ^2/NDF : 37940539.9/55

Out: 1273.783 $\pm$ 0.247

χ^2/NDF : 46220455.1/60

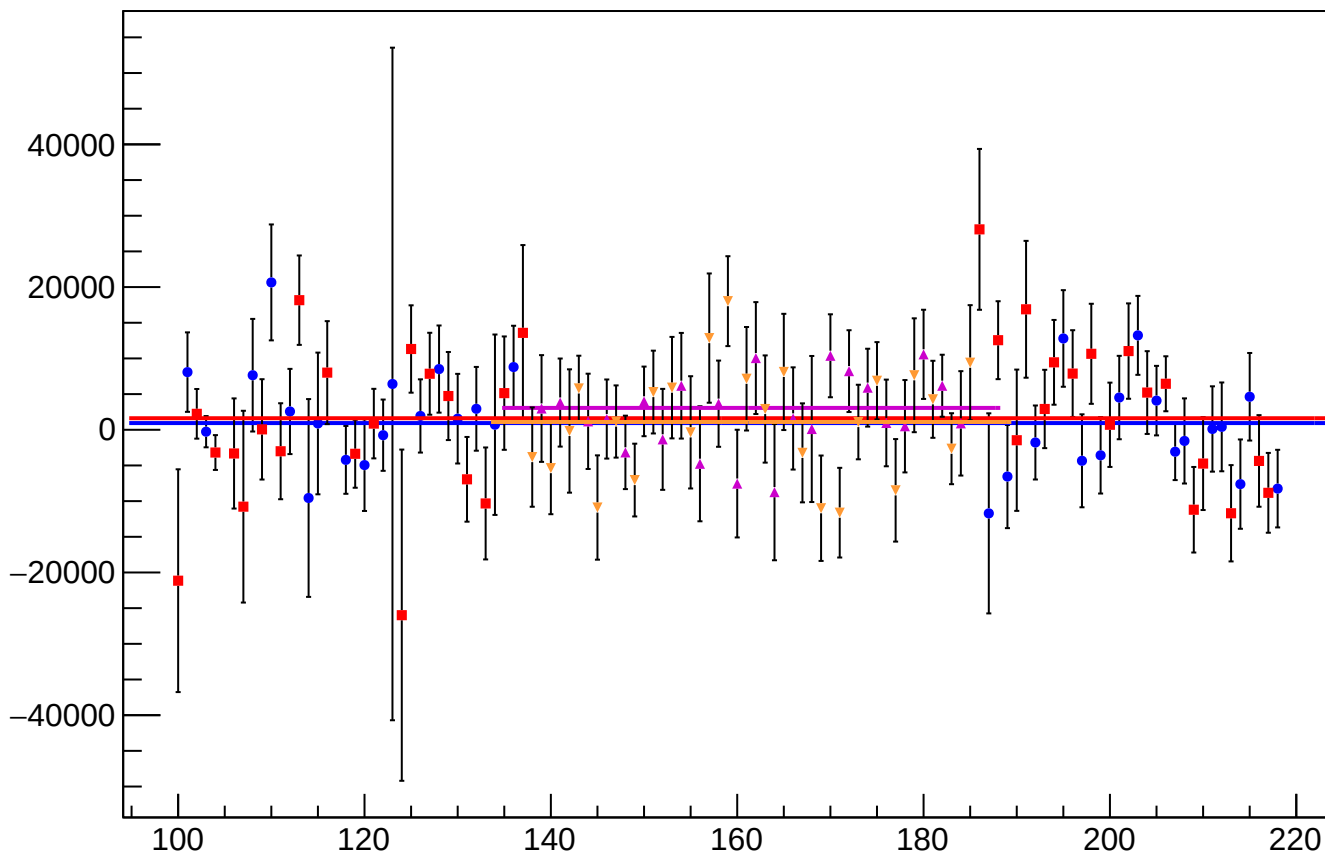
Left In: 5019.114 $\pm$ 0.871

χ^2/NDF : 1569031.9/22

All: 1493.244 $\pm$ 0.197

χ^2/NDF : 86359144.0/1

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 940.445 $\pm$ 972.849 χ^2 /NDF: 33.5/32

Left Out: 1094.317 $\pm$ 1273.113 χ^2 /NDF:32.0/24

Right Out: 1618.414 $\pm$ 975.195 χ^2 /NDF: 62.0/35

Left In: 3064.775 $\pm$ 1318.173 χ^2 /NDF:12.6/22

Left: 2045.291 $\pm$ 915.742 χ^2 /NDF: 45.7/47

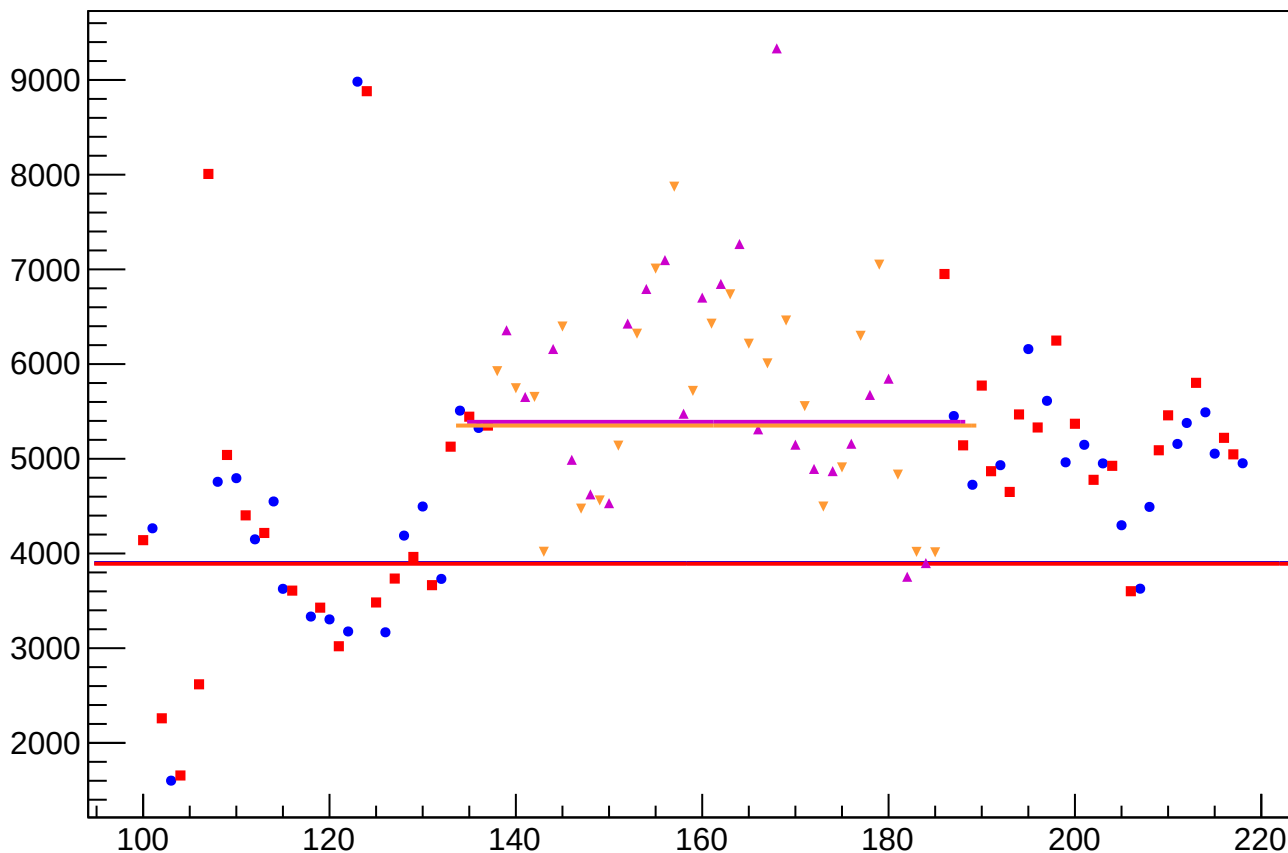
Right: 1278.613 $\pm$ 688.736 χ^2 /NDF: 95.8/68

In: 1689.524 $\pm$ 782.754 χ^2 /NDF:47.8/55

Out: 1424.614 $\pm$ 774.173 χ^2 /NDF:94.1/60

All: 1555.609 $\pm$ 550.432 χ^2 /NDF: 141.9/116

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3899.377+/-0.688

χ^2/NDF : 3852496.2/32

Left: 5369.587+/-0.648 χ^2/NDF : 2552263.0/47

Right: 3895.654+/-0.485 χ^2/NDF : 8312749.4/68

Left Out: 5350.804+/-0.900

χ^2/NDF : 1241497.9/24

In: 4424.900+/-0.553 χ^2/NDF : 6817444.8/55

Right Out: 3891.976+/-0.684

χ^2/NDF : 4460195.0/35

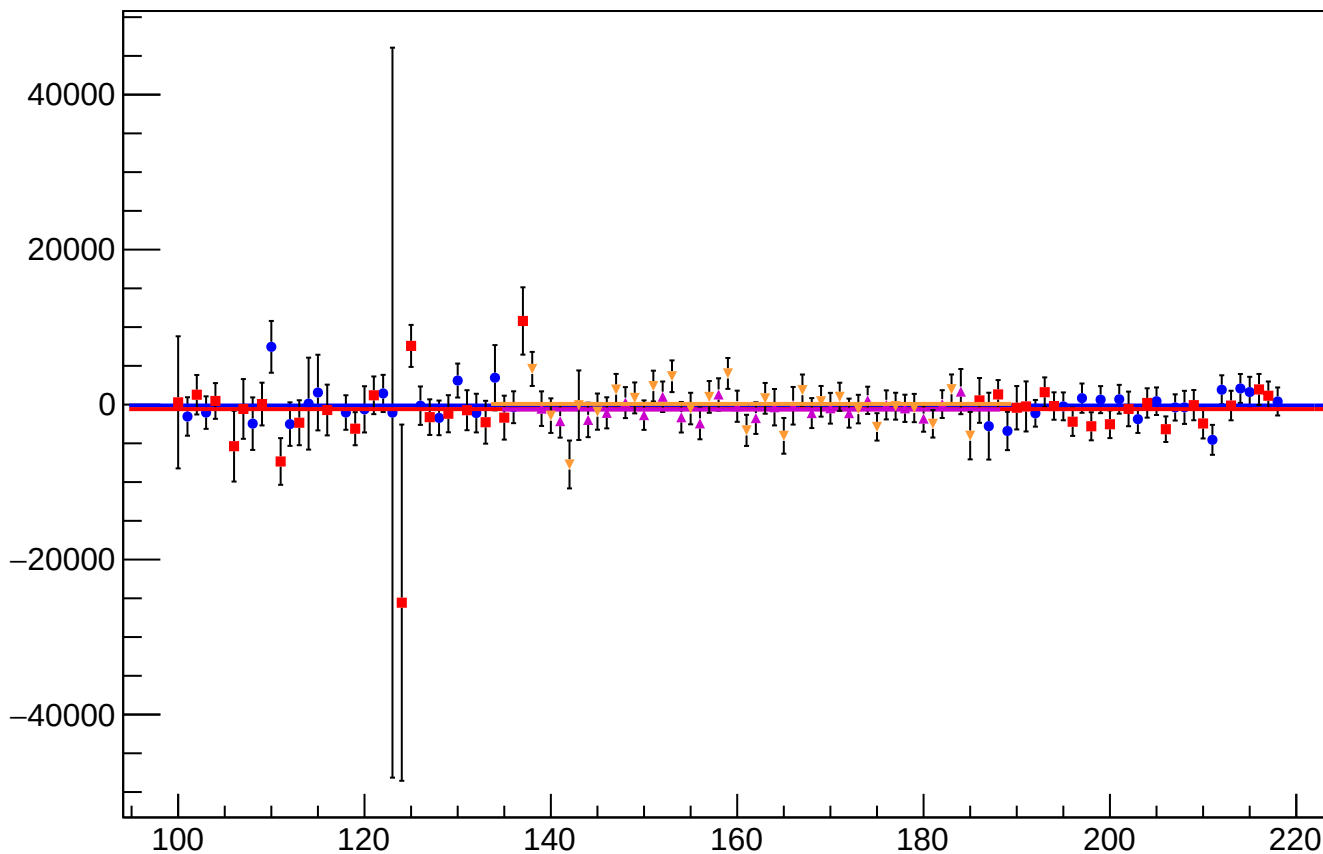
Out: 4425.695+/-0.545 χ^2/NDF : 7366996.3/60

Left In: 5389.724+/-0.932

χ^2/NDF : 1309863.0/22

All: 4425.304+/-0.388 χ^2/NDF : 14184442.2/131

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -118.726+/-387.964 χ^2 /NDF: 24.1/32

Left Out: 86.214+/-411.530 χ^2 /NDF:36.0/24

Right Out: -583.825+/-388.827 χ^2 /NDF: 39.3/35

Left In: -640.235+/-417.645 χ^2 /NDF:6.2/22

Left: -271.653+/-293.134 χ^2 /NDF: 43.7/47

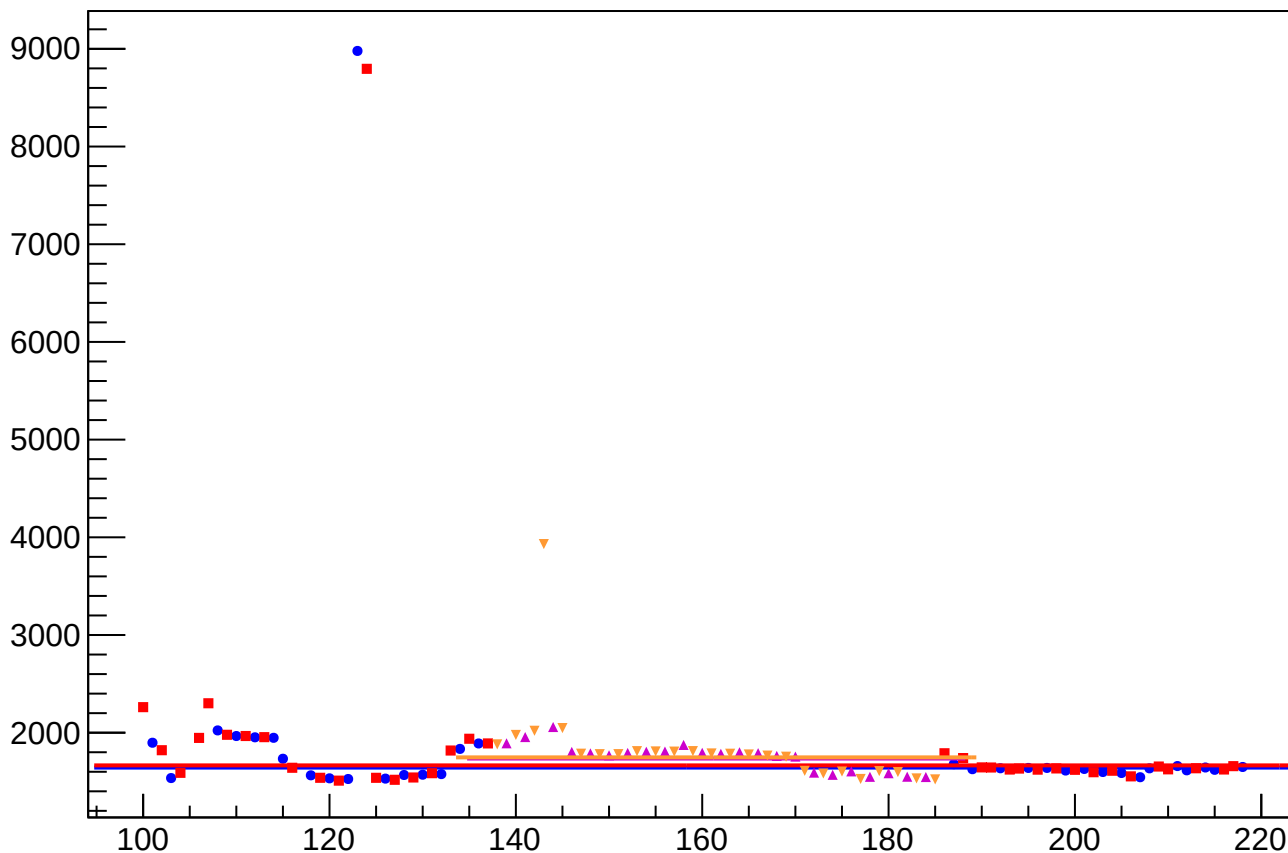
Right: -350.759+/-274.637 χ^2 /NDF: 64.1/68

In: -360.293+/-284.246 χ^2 /NDF:31.1/55

Out: -267.797+/-282.628 χ^2 /NDF:76.8/60

All: -313.781+/-200.418 χ^2 /NDF: 107.9/116

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1642.952 $\pm$ 0.274 χ^2 /NDF: 213868.8/32

Left Out: 1747.320 $\pm$ 0.291 χ^2 /NDF: 698192.3/24

Right Out: 1665.407 $\pm$ 0.275 χ^2 /NDF: 434883.3/35

Left In: 1735.540 $\pm$ 0.295 χ^2 /NDF: 206766.6/22

Left: 1741.517 $\pm$ 0.207 χ^2 /NDF: 905766.2/47

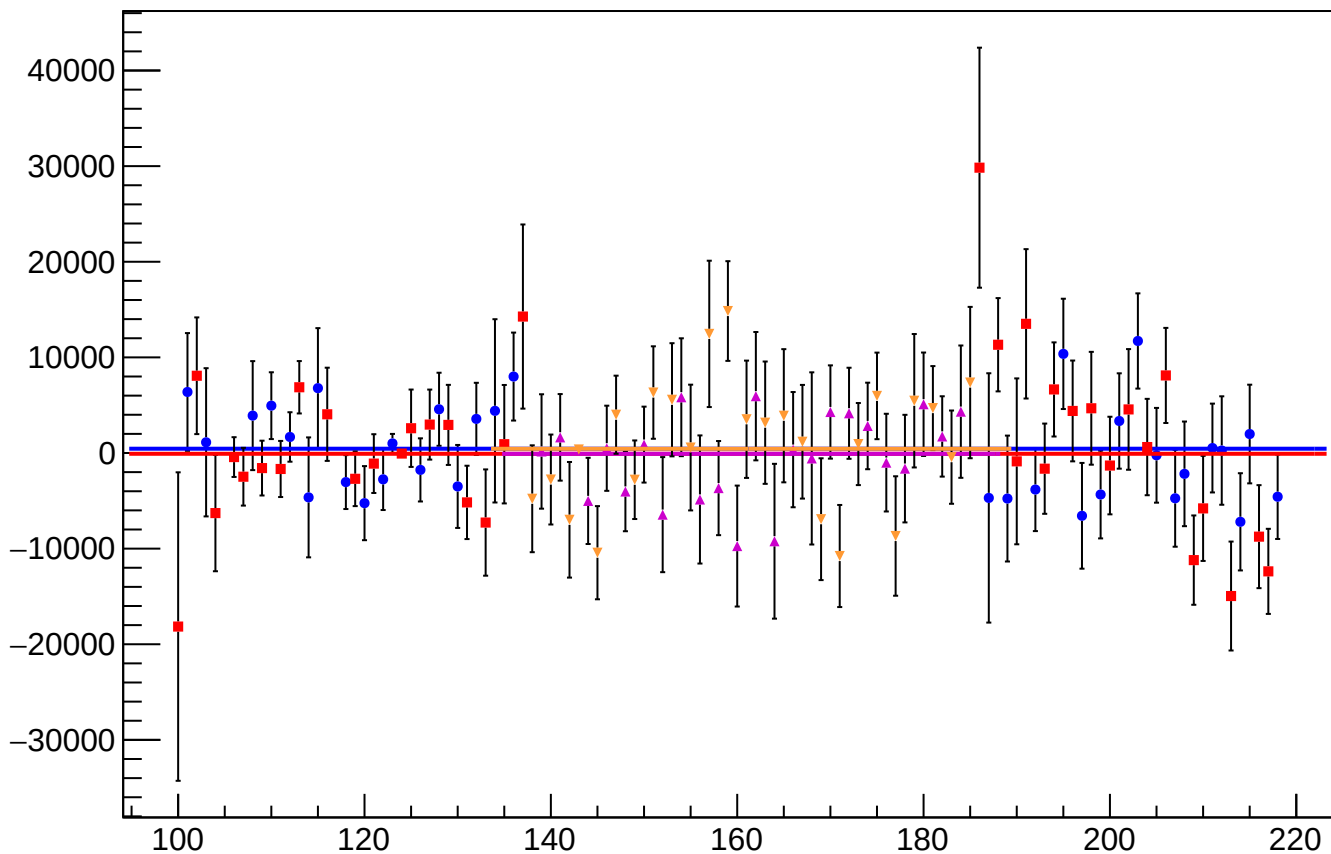
Right: 1654.171 $\pm$ 0.194 χ^2 /NDF: 652099.6/68

In: 1685.840 $\pm$ 0.201 χ^2 /NDF: 473399.2/55

Out: 1703.980 $\pm$ 0.200 χ^2 /NDF: 1175000.3/60

All: 1694.969 $\pm$ 0.142 χ^2 /NDF: 1652499.1/111

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 448.356+/-621.091 χ^2/NDF : 33.7/32

Left Out: 442.187+/-440.335 χ^2/NDF : 33.9/24

Right Out: -80.996+/-345.036 χ^2/NDF : 65.4/35

Left In: -88.508+/-1094.838 χ^2/NDF : 13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

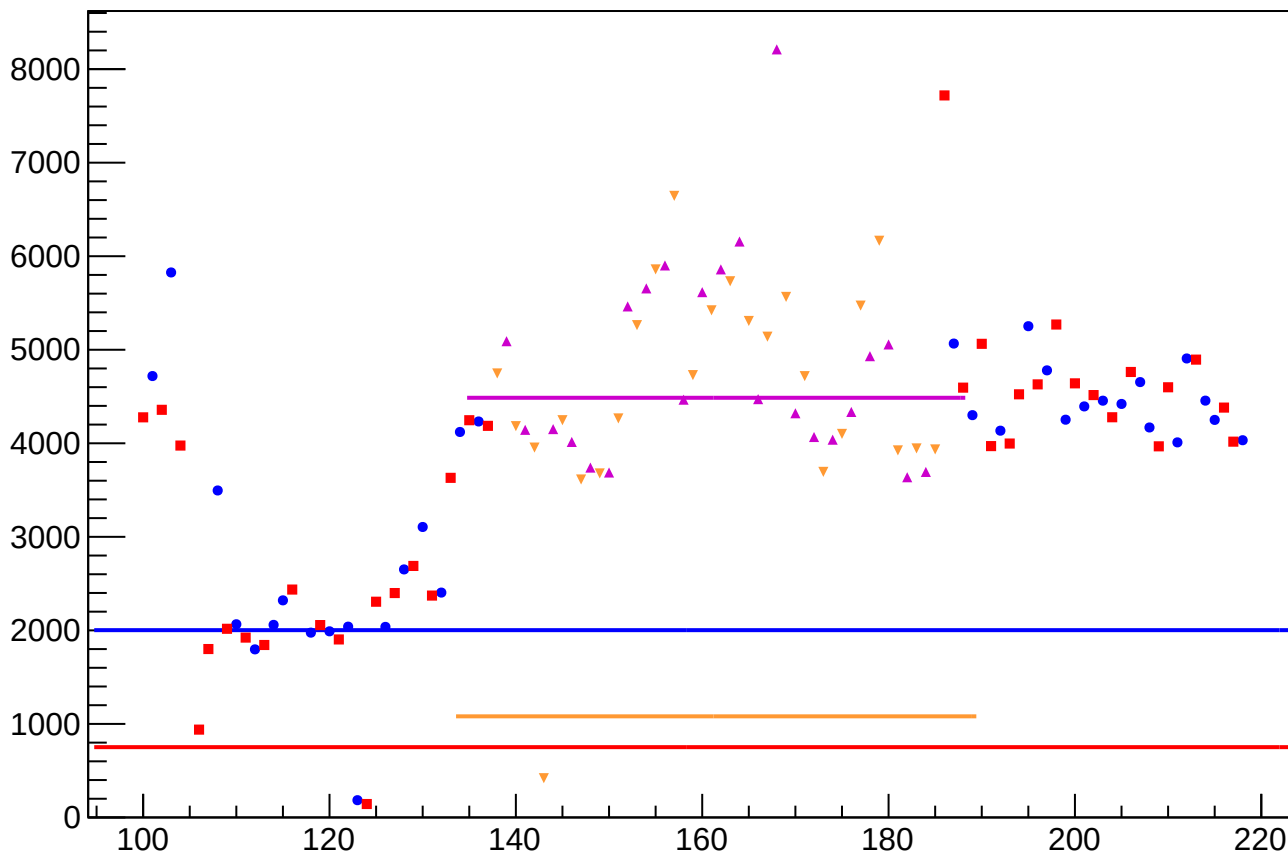
Right: 43.843+/-301.618 χ^2/NDF : 99.6/68

In: 317.648+/-540.218 χ^2/NDF : 47.3/55

Out: 118.032+/-271.590 χ^2/NDF : 100.2/60

All: 158.306+/-242.651 χ^2/NDF : 147.6/116

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 2002.330+/-0.439

χ^2/NDF : 15418724.6/32

Left Out: 1081.004+/-0.311

χ^2/NDF : 24456244.2/24

Right Out: 751.608+/-0.244

χ^2/NDF : 27463956.9/35

Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179+/-0.289 χ^2/NDF : 42294704.7/47

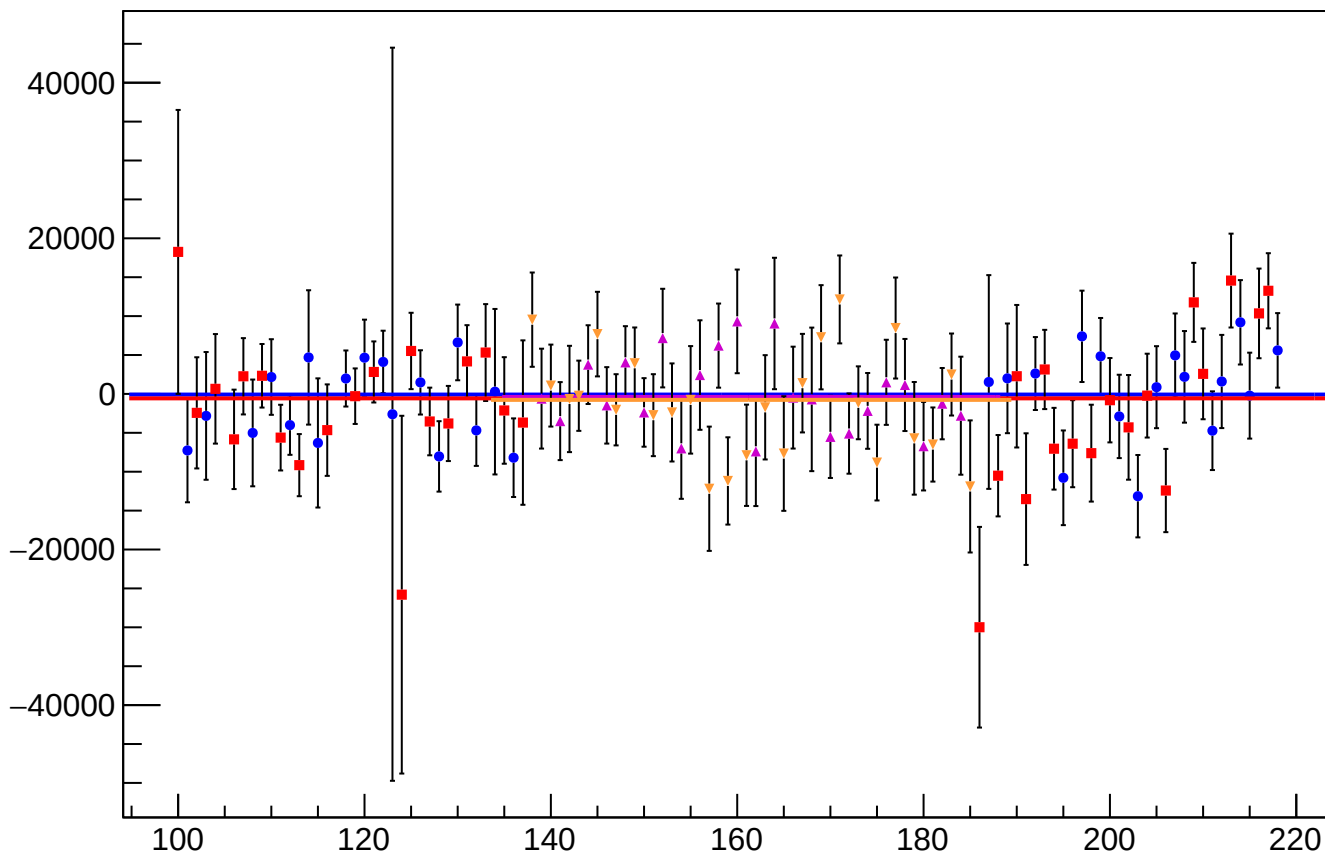
Right: 1046.571+/-0.213 χ^2/NDF : 49080367.4/68

In: 2607.158+/-0.382 χ^2/NDF : 24390469.0/55

Out: 876.916+/-0.192 χ^2/NDF : 52613624.3/60

All: 1226.001+/-0.172 χ^2/NDF : 93381367.5/130

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -83.999 ± 936.660 χ^2/NDF : 33.8/32

Left Out: -766.008 ± 1147.372 χ^2/NDF : 29.9/24

Right Out: -572.452 ± 914.232 χ^2/NDF : 60.9/35

Left In: -388.944 ± 1186.300 χ^2/NDF : 14.2/22

Left: -583.764 ± 824.733 χ^2/NDF : 44.2/47

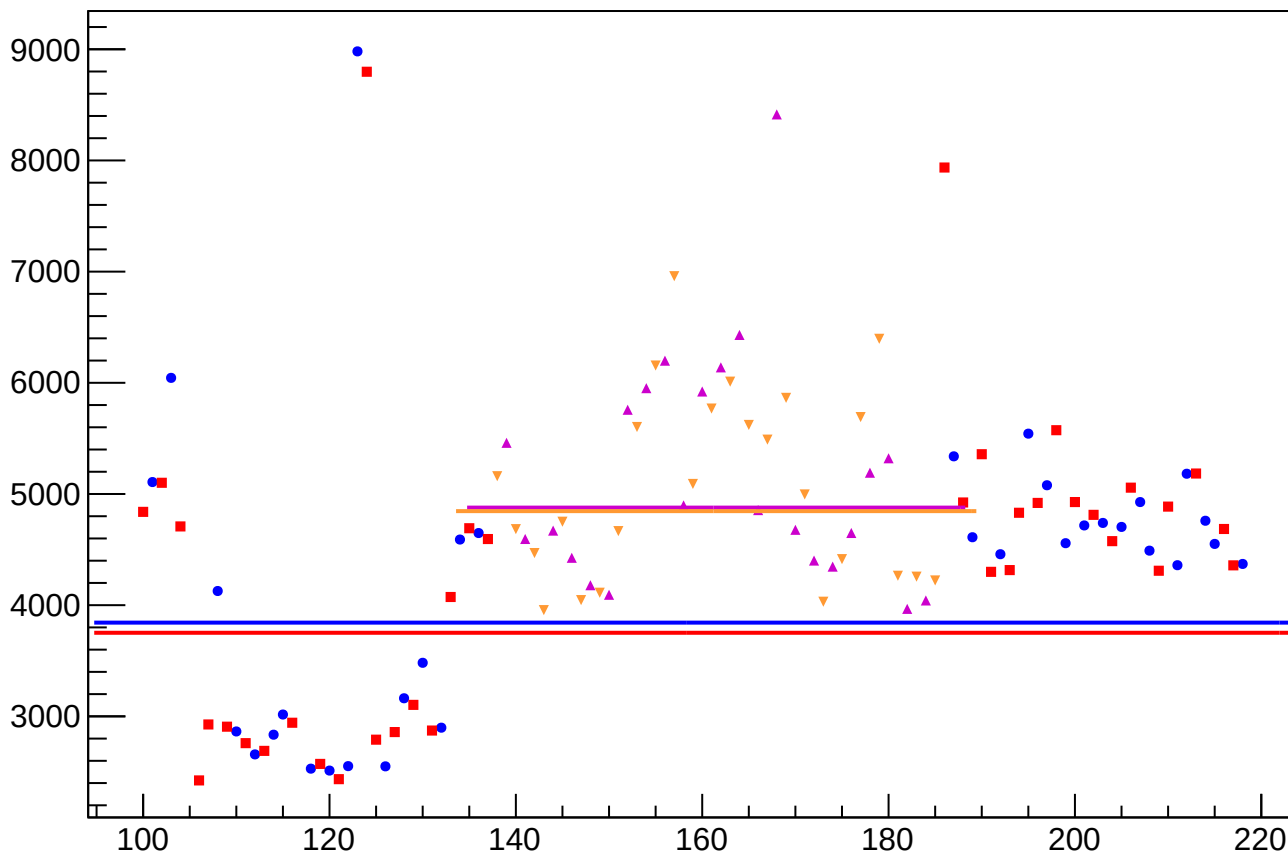
Right: -334.143 ± 654.245 χ^2/NDF : 94.9/68

In: -201.102 ± 735.136 χ^2/NDF : 48.1/55

Out: -647.618 ± 715.008 χ^2/NDF : 90.8/60

All: -430.556 ± 512.555 χ^2/NDF : 139.1/116

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3843.034 $\pm$ 0.662

χ^2/NDF : 2455821.0/32

Left: 4861.089 $\pm$ 0.583

χ^2/NDF : 1868533.9/47

Left Out: 4845.779 $\pm$ 0.811

χ^2/NDF : 909173.9/24

Right: 3795.927 $\pm$ 0.461

χ^2/NDF : 5381047.9/68

Right Out: 3751.710 $\pm$ 0.642

χ^2/NDF : 2915419.8/35

In: 4240.265 $\pm$ 0.520

χ^2/NDF : 4351160.1/55

Out: 4172.730 $\pm$ 0.503

χ^2/NDF : 4943291.2/60

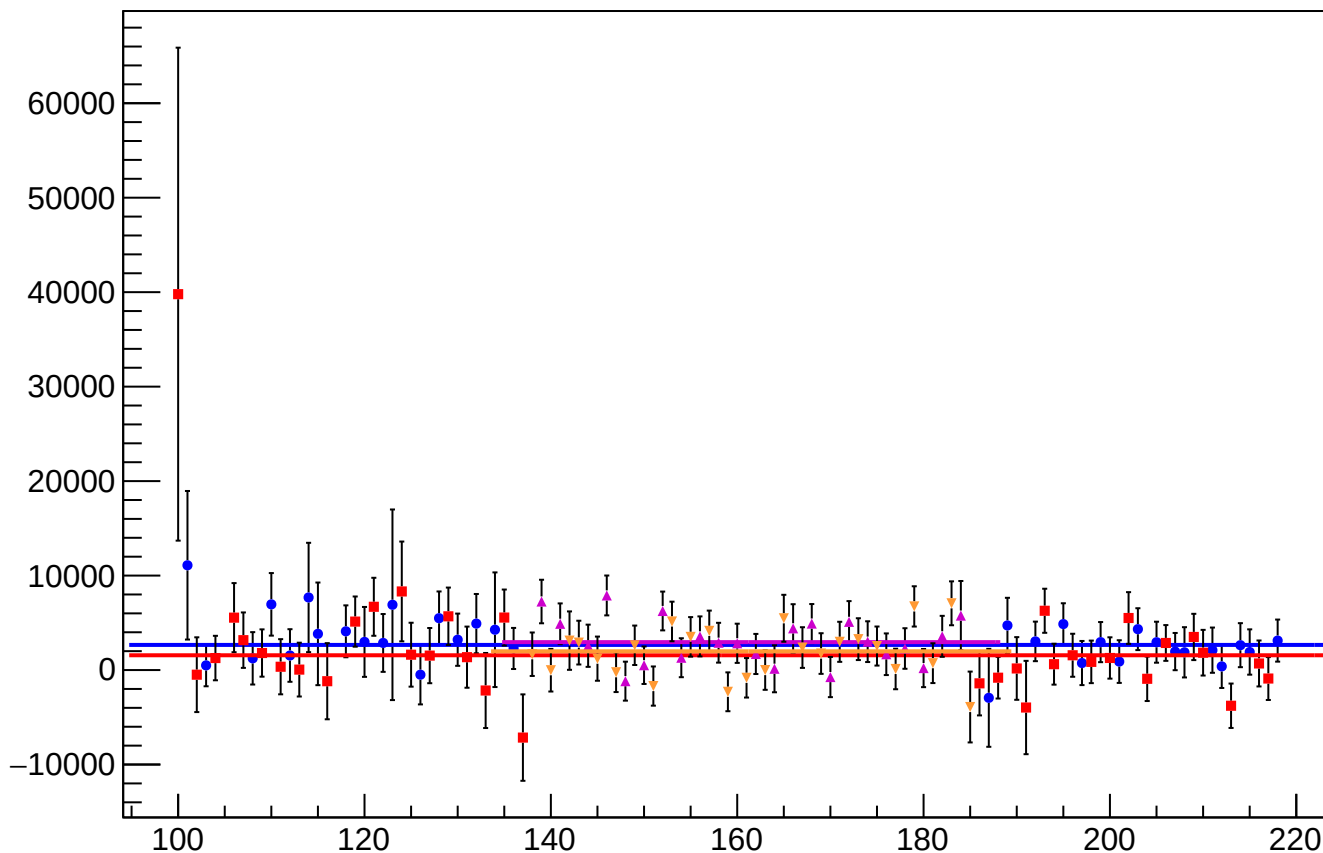
Left In: 4877.456 $\pm$ 0.839

χ^2/NDF : 958623.2/22

All: 4205.407 $\pm$ 0.362

χ^2/NDF : 9303163.5/11

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2660.540+/-467.041 χ^2/NDF : 14.1/32

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1565.248+/-460.708 χ^2/NDF : 37.8/35

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

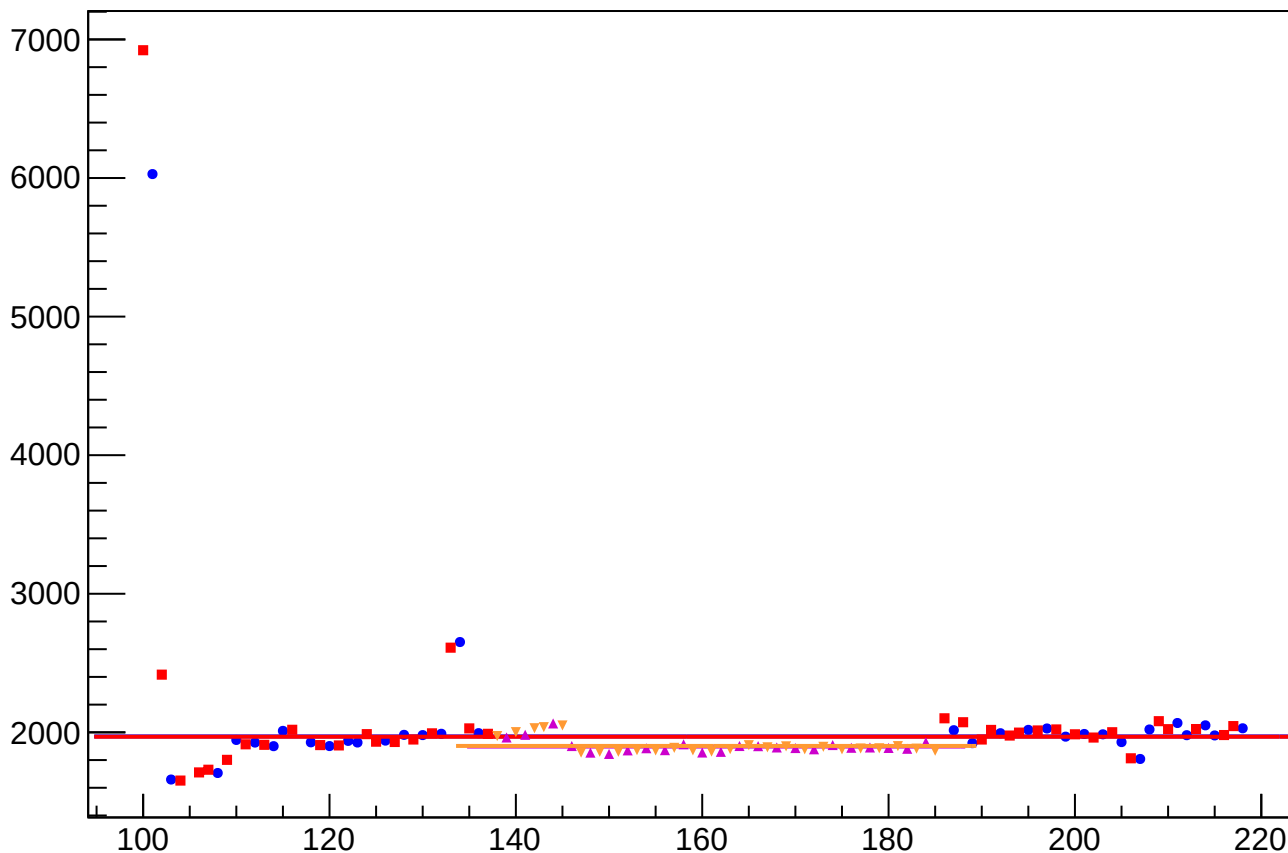
Right: 2105.417+/-327.986 χ^2/NDF : 54.7/68

In: 2812.223+/-325.742 χ^2/NDF : 42.8/55

Out: 1783.500+/-319.396 χ^2/NDF : 70.6/60

All: 2287.743+/-228.058 χ^2/NDF : 118.5/116

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1970.587+/-0.330 χ^2/NDF : 643917.6/32

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1968.288+/-0.325 χ^2/NDF : 257486.3/35

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

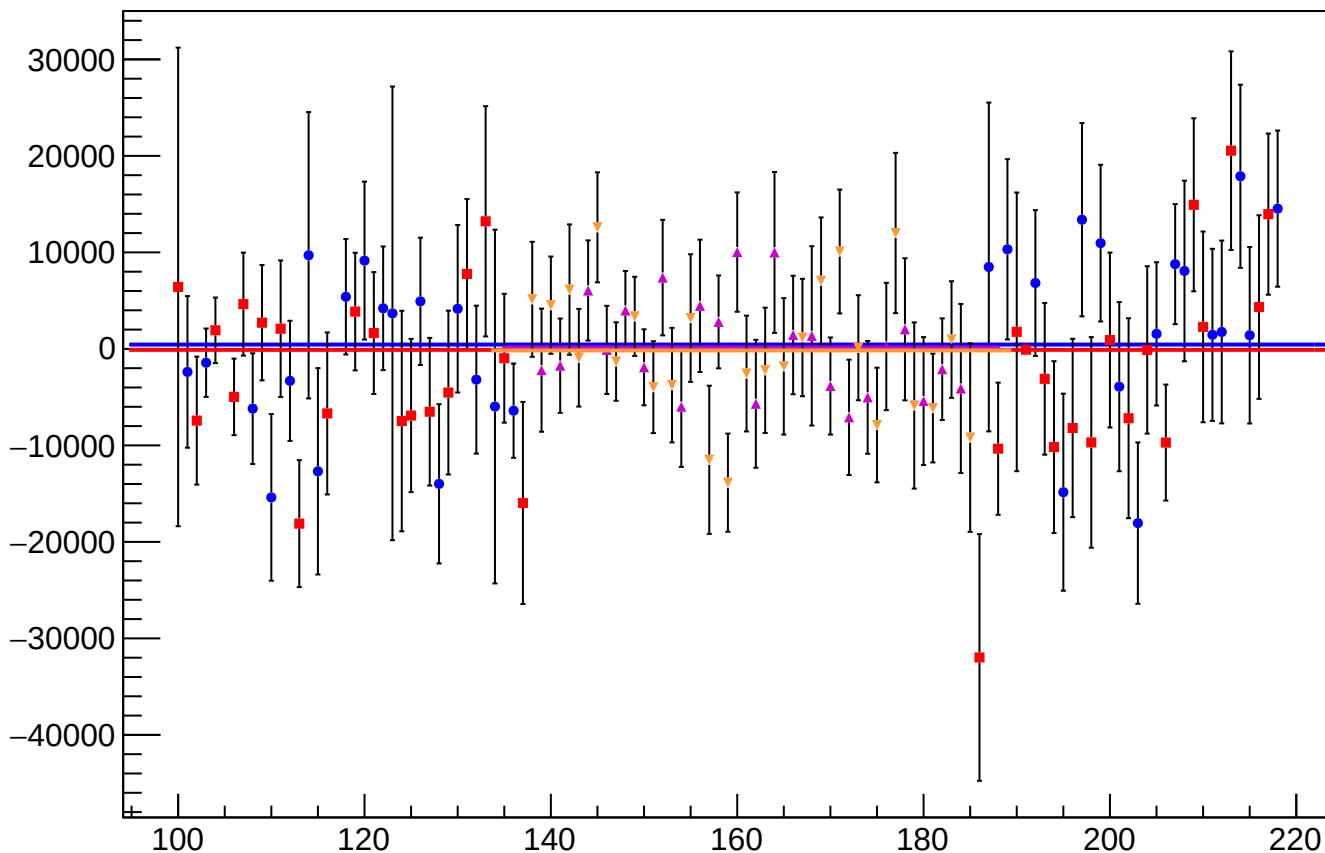
Right: 1969.421+/-0.232 χ^2/NDF : 901428.4/68

In: 1933.030+/-0.230 χ^2/NDF : 690280.4/55

Out: 1933.829+/-0.226 χ^2/NDF : 309533.3/60

All: 1933.438+/-0.161 χ^2/NDF : 999819.9/116

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: 449.506+/-1321.454 χ^2/NDF : 37.3/32

Left Out: -157.539+/-1165.844 χ^2/NDF : 29.5/24

Right Out: -98.194+/-109.514 χ^2/NDF : 44.0/35

Left In: 139.000+/-1190.889 χ^2/NDF : 14.7/22

Left: -12.420+/-833.090 χ^2/NDF : 44.2/47

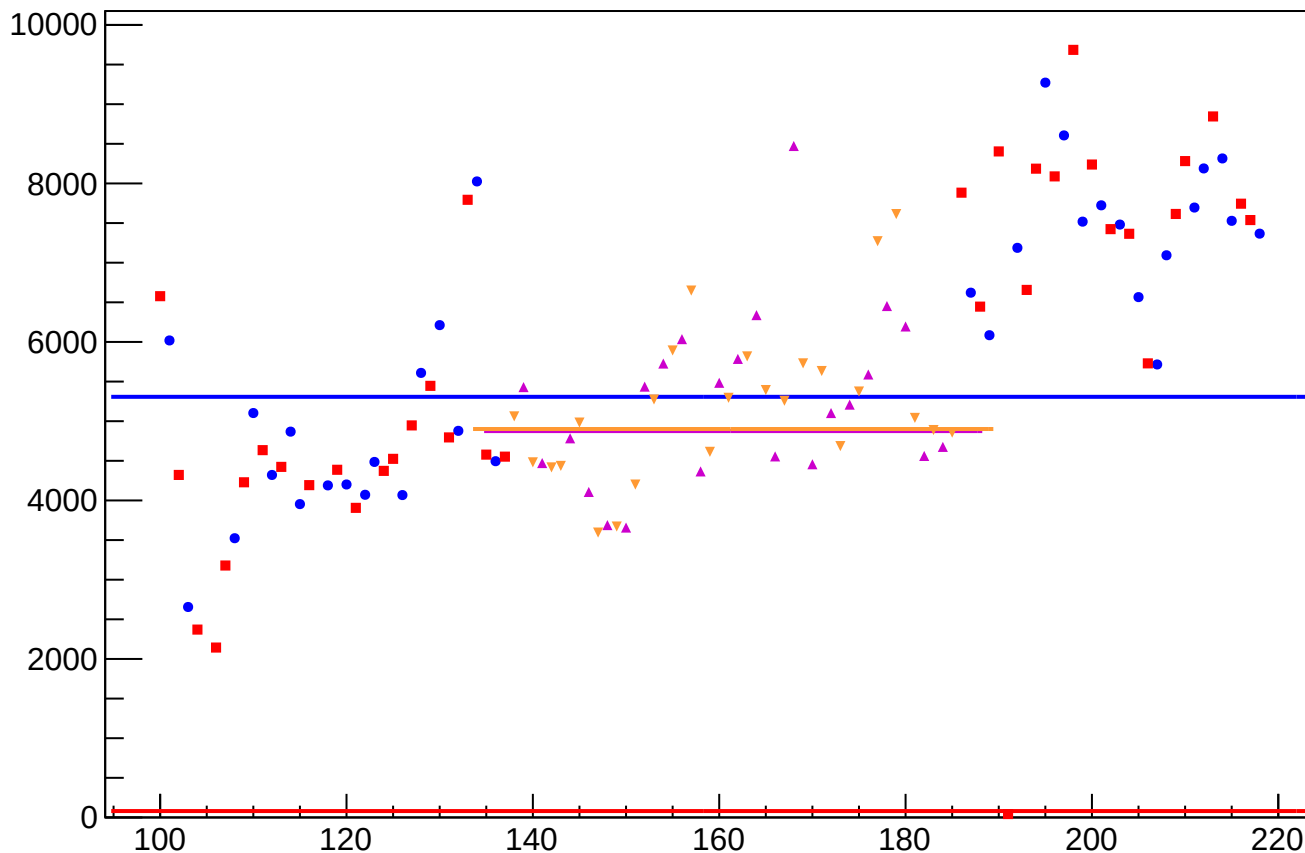
Right: -94.458+/-109.140 χ^2/NDF : 81.5/68

In: 278.159+/-884.655 χ^2/NDF : 52.0/55

Out: -98.713+/-109.034 χ^2/NDF : 73.5/60

All: -93.074+/-108.215 χ^2/NDF : 125.7/116

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 5307.596 $\pm$ 0.934 χ^2 /NDF: 3818919.7/32

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF: 1136916.0/24

Right Out: 80.798 $\pm$ 0.077 χ^2 /NDF: 35741082.6/35

Left In: 4875.112 $\pm$ 0.842 χ^2 /NDF: 1229198.0/22

Left: 4888.513 $\pm$ 0.589 χ^2 /NDF: 2366610.1/47

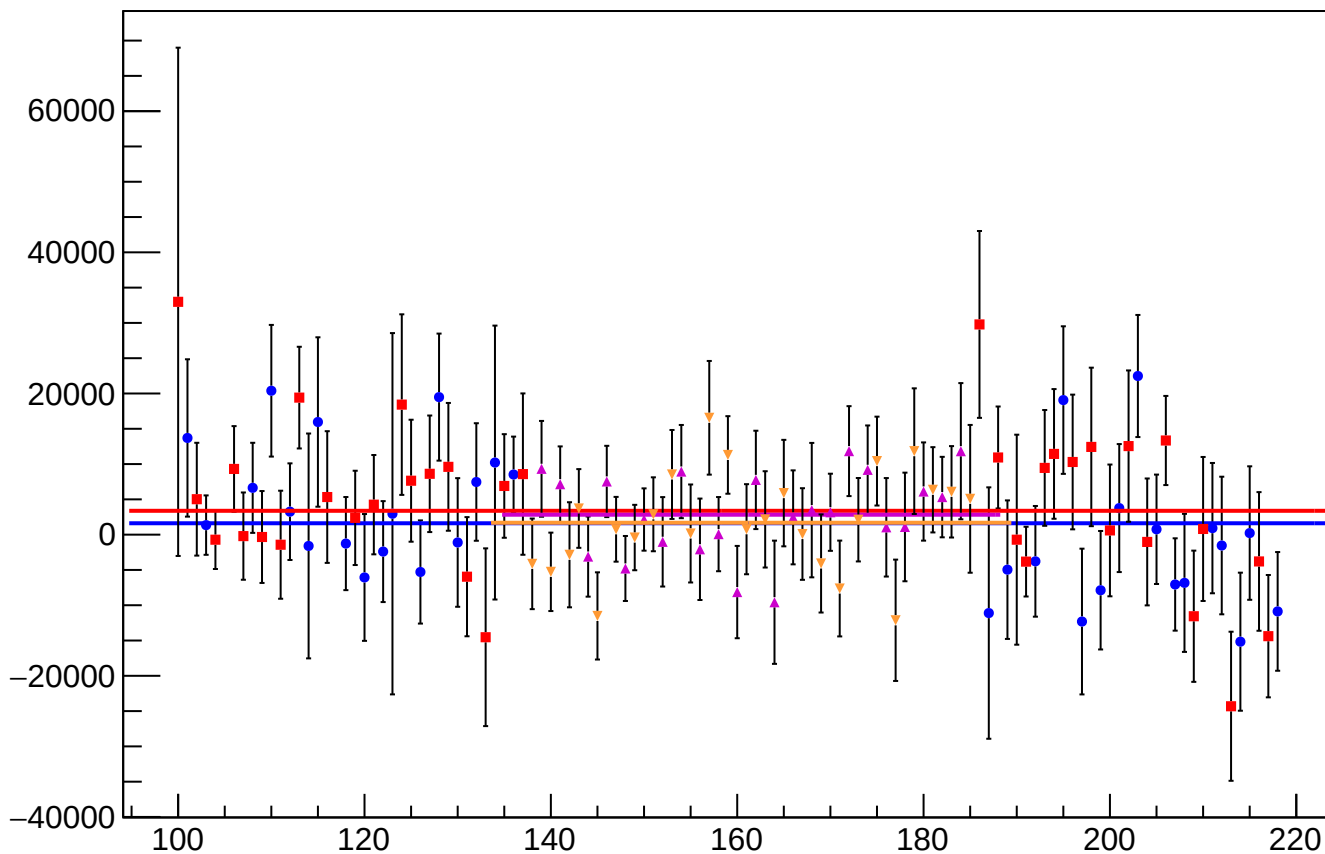
Right: 116.450 $\pm$ 0.077 χ^2 /NDF: 70635969.5/68

In: 5068.939 $\pm$ 0.626 χ^2 /NDF: 5166332.0/55

Out: 122.961 $\pm$ 0.077 χ^2 /NDF: 70772429.6/60

All: 196.969 $\pm$ 0.077 χ^2 /NDF: 137518671.0/130

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 1614.339+/-1442.460 χ^2/NDF : 36.9/32

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 3379.484+/-1333.707 χ^2/NDF : 42.5/35

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

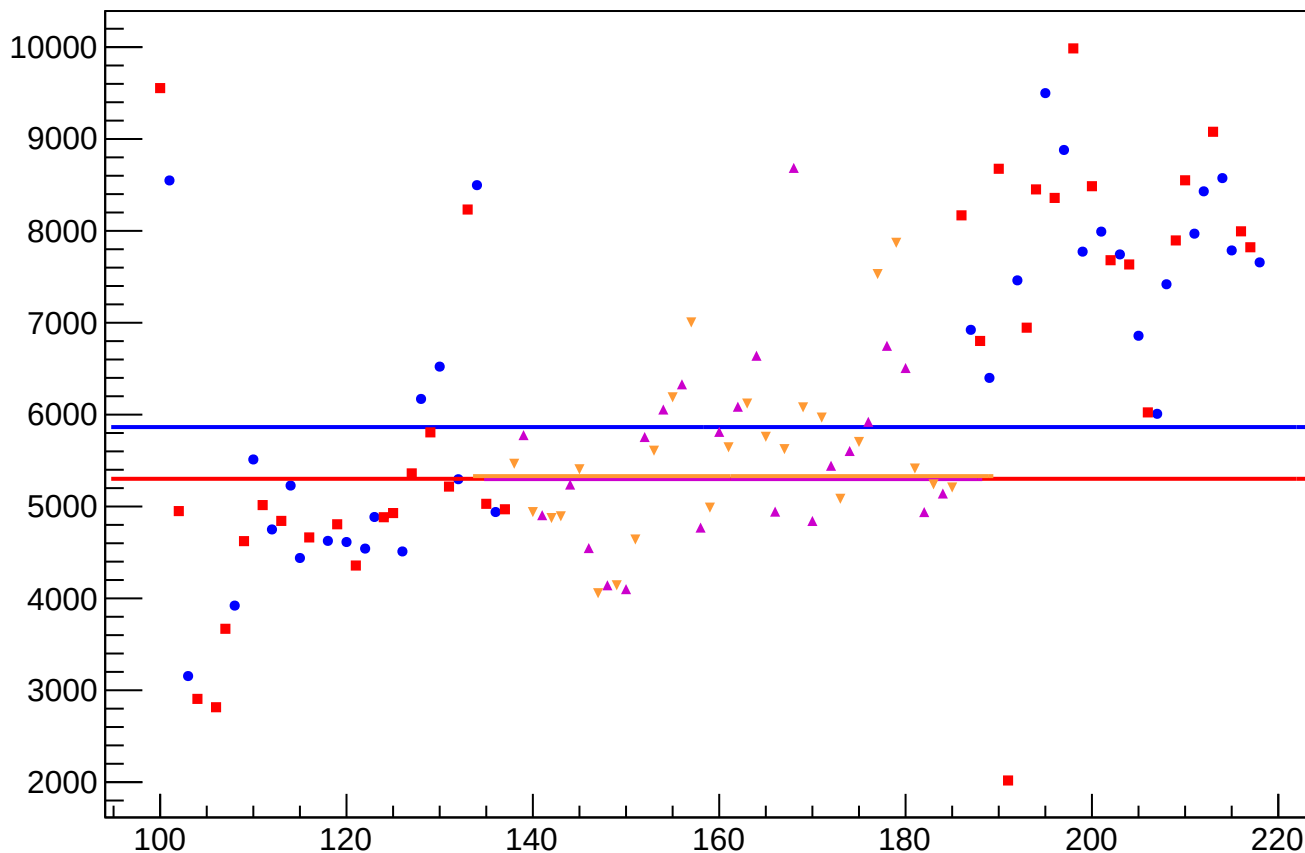
Right: 2565.953+/-979.266 χ^2/NDF : 80.2/68

In: 2287.232+/-960.910 χ^2/NDF : 55.3/55

Out: 2486.041+/-916.537 χ^2/NDF : 68.7/60

All: 2391.333+/-663.222 χ^2/NDF : 124.0/116

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5864.593 ± 1.020 χ^2/NDF : 3055365.3/32

Left Out: 5330.725 ± 0.892 χ^2/NDF : 868061.7/24

Right Out: 5301.573 ± 0.940 χ^2/NDF : 4896379.0/35

Left In: 5298.329 ± 0.911 χ^2/NDF : 956021.6/22

Left: 5314.867 ± 0.637 χ^2/NDF : 1824728.8/47

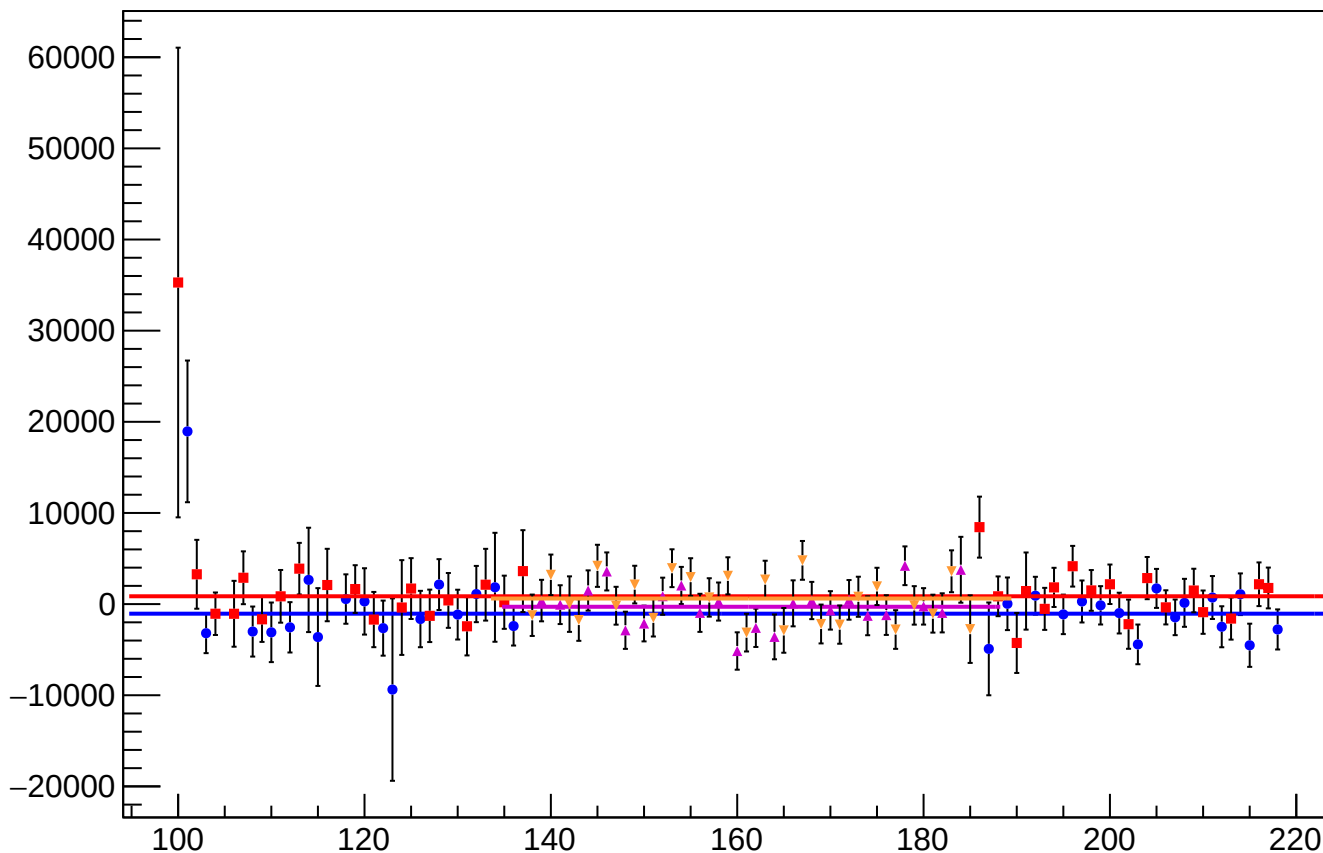
Right: 5560.090 ± 0.691 χ^2/NDF : 8116536.7/68

In: 5549.620 ± 0.679 χ^2/NDF : 4182827.6/55

Out: 5316.907 ± 0.647 χ^2/NDF : 5764946.8/60

All: 5427.576 ± 0.469 χ^2/NDF : 10009292.4/117

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1051.796+/-460.957 χ^2/NDF : 24.4/32

Left Out: 612.314+/-438.264 χ^2/NDF : 32.7/24

Right Out: 858.670+/-453.981 χ^2/NDF : 24.4/35

Left In: -293.009+/-449.575 χ^2/NDF : 23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

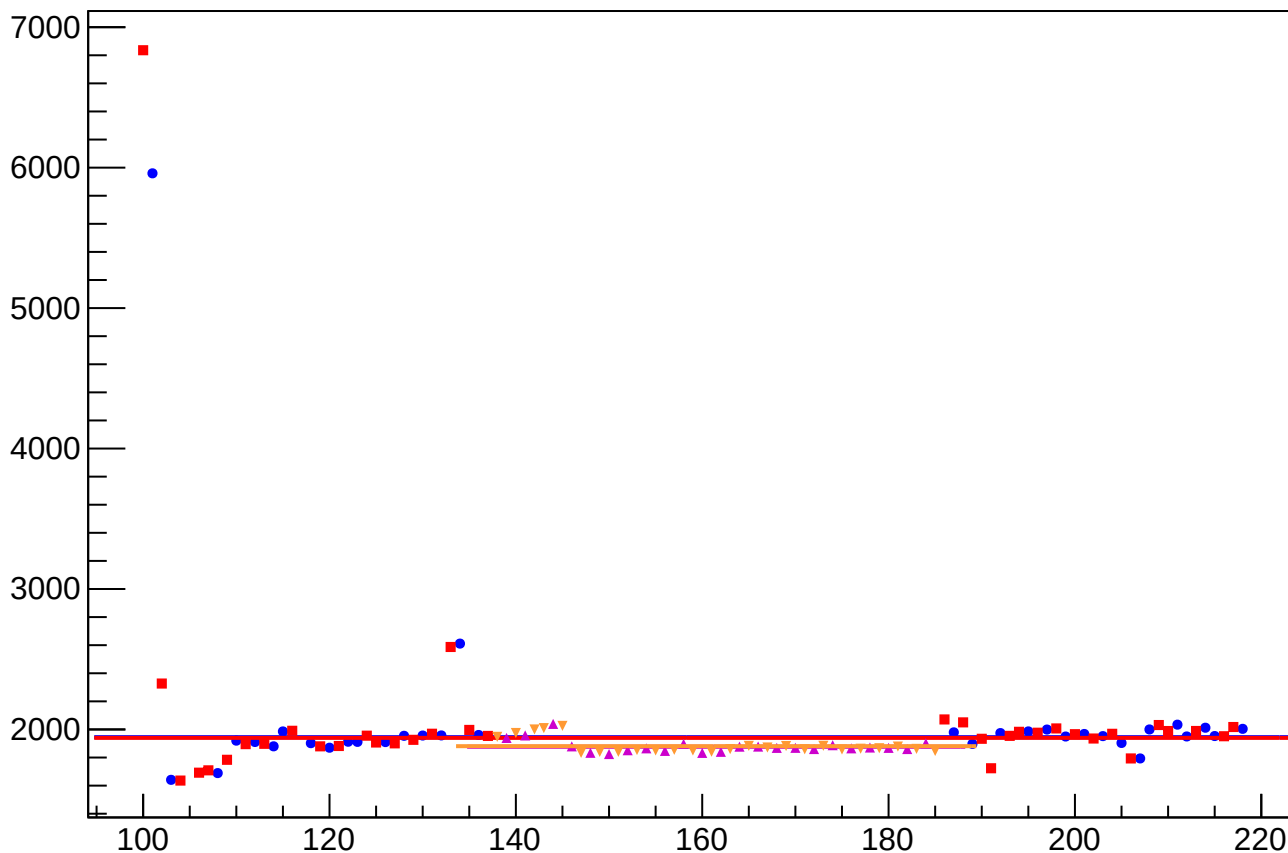
Right: -81.998+/-323.451 χ^2/NDF : 57.6/68

In: -662.919+/-321.846 χ^2/NDF : 49.5/55

Out: 731.154+/-315.309 χ^2/NDF : 57.3/60

All: 48.418+/-225.233 χ^2/NDF : 116.3/116

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1945.085 $\pm$ 0.326 χ^2 /NDF: 639841.7/32

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF: 28655.5/24

Right Out: 1940.078 $\pm$ 0.321 χ^2 /NDF: 253544.1/35

Left In: 1876.685 $\pm$ 0.318 χ^2 /NDF: 20499.7/22

Left: 1878.799 $\pm$ 0.222 χ^2 /NDF: 49241.5/47

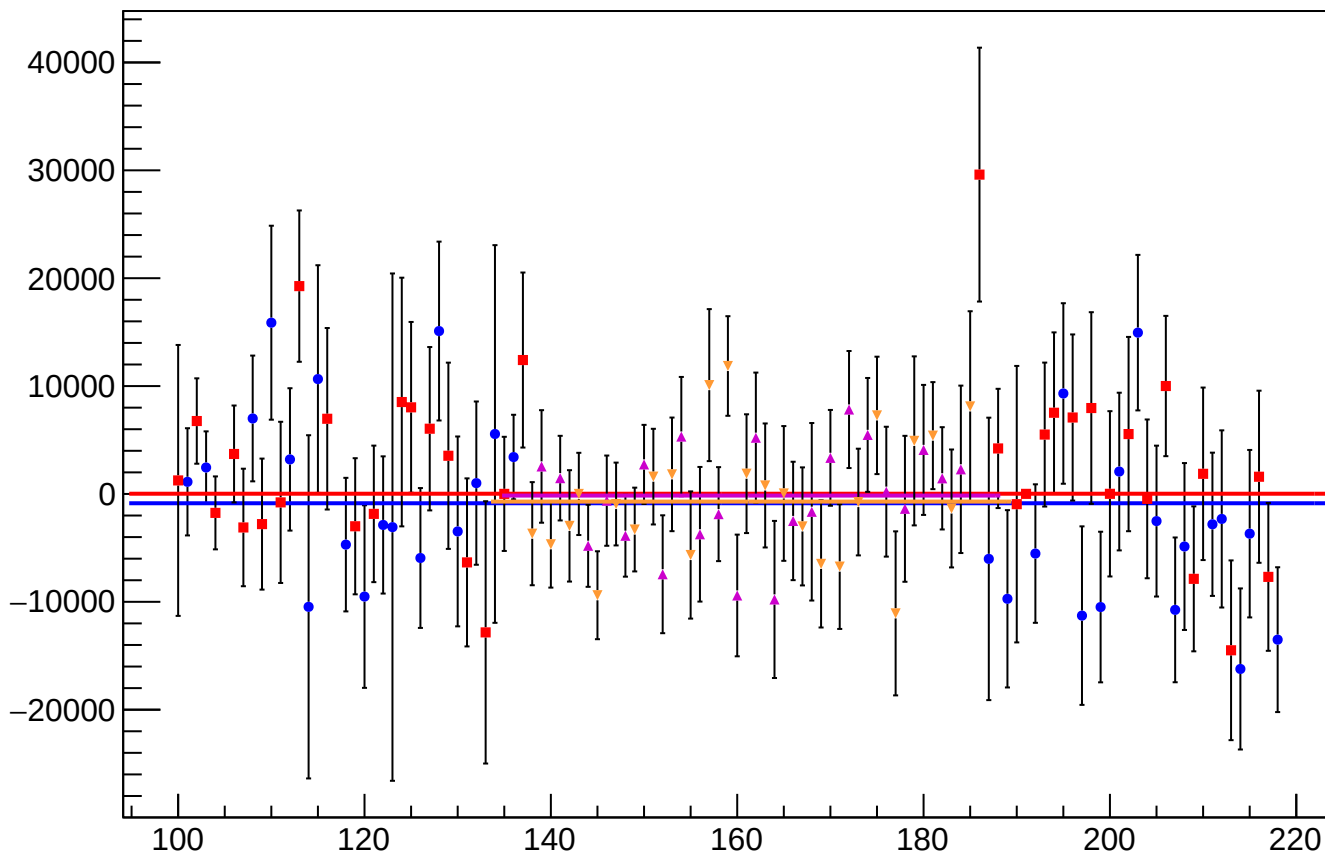
Right: 1942.541 $\pm$ 0.229 χ^2 /NDF: 893505.6/68

In: 1910.030 $\pm$ 0.228 χ^2 /NDF: 682910.3/55

Out: 1909.426 $\pm$ 0.223 χ^2 /NDF: 299860.9/60

All: 1909.721 $\pm$ 0.159 χ^2 /NDF: 982774.8/116

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: -862.326 ± 1197.964 $\chi^2/\text{NDF}: 38.0/32$

Left Out: -707.785 ± 1017.719 $\chi^2/\text{NDF}: 27.1/24$

Right Out: 20.934 ± 85.768 $\chi^2/\text{NDF}: 38.2/35$

Left In: -150.495 ± 1053.655 $\chi^2/\text{NDF}: 16.9/22$

Left: -438.806 ± 732.011 $\chi^2/\text{NDF}: 44.2/47$

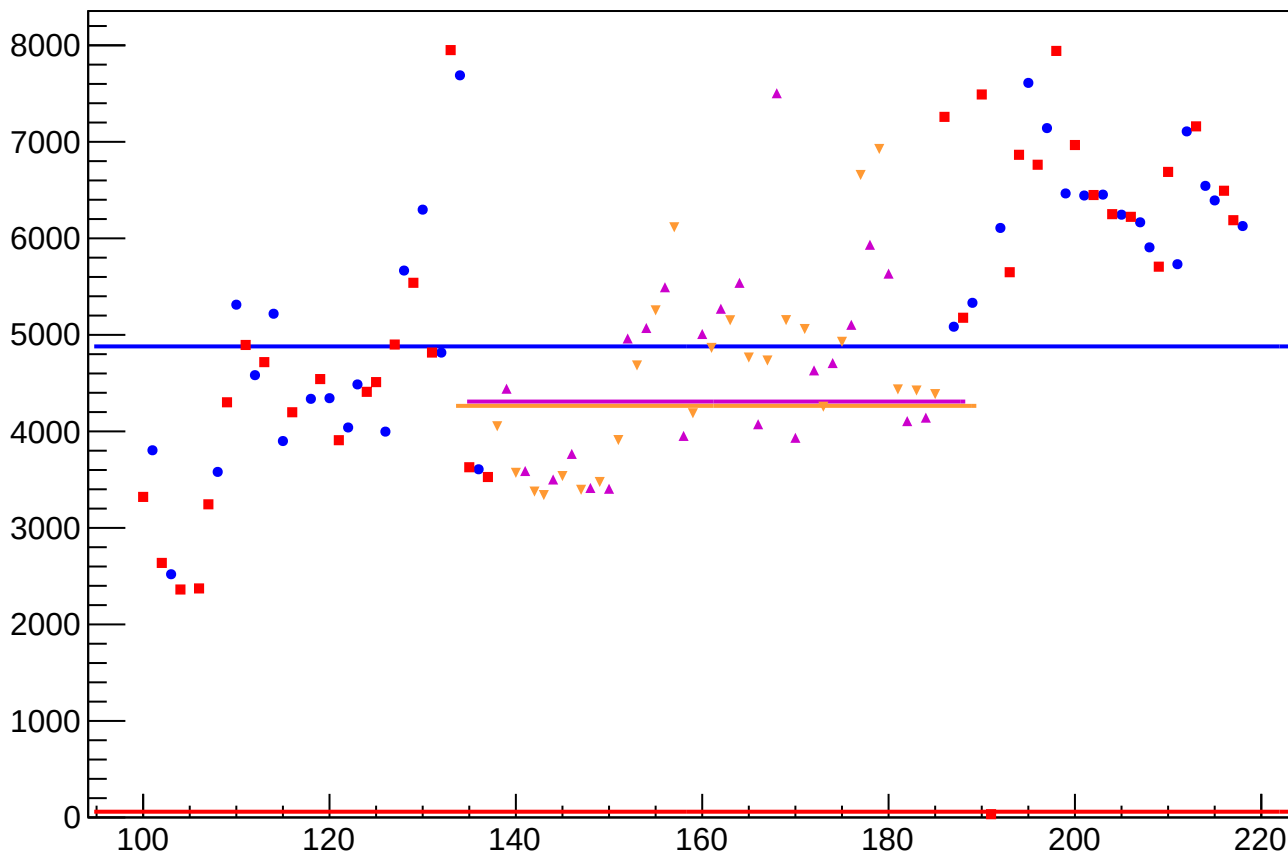
Right: 16.430 ± 85.549 $\chi^2/\text{NDF}: 76.7/68$

In: -460.975 ± 791.174 $\chi^2/\text{NDF}: 55.1/55$

Out: 15.795 ± 85.465 $\chi^2/\text{NDF}: 65.8/60$

All: 10.296 ± 84.971 $\chi^2/\text{NDF}: 121.3/116$

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4880.431 $\pm$ 0.847 χ^2/NDF : 2982362.3/32

Left Out: 4264.433 $\pm$ 0.720 χ^2/NDF : 1354900.8/24

Right Out: 59.547 $\pm$ 0.061 χ^2/NDF : 35921914.8/35

Left In: 4309.034 $\pm$ 0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960 $\pm$ 0.518 χ^2/NDF : 2661888.1/47

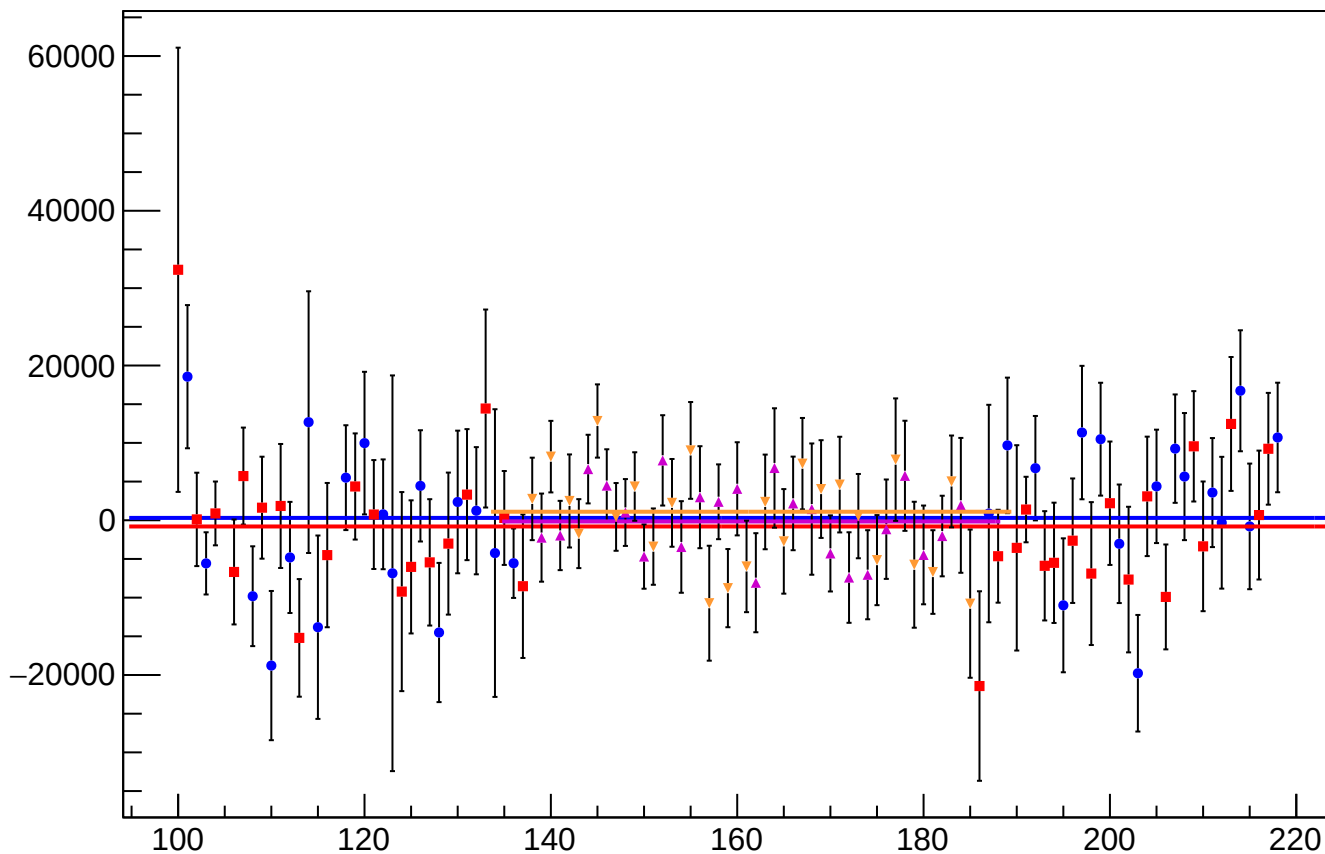
Right: 84.132 $\pm$ 0.060 χ^2/NDF : 71127961.1/68

In: 4558.261 $\pm$ 0.559 χ^2/NDF : 4544042.1/55

Out: 89.200 $\pm$ 0.060 χ^2/NDF : 71177558.7/60

All: 140.749 $\pm$ 0.060 χ^2/NDF : 138799827.5/130

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: 304.270 $\pm$ 1331.985 χ^2 /NDF: 45.3/32

Left Out: 1102.204 $\pm$ 1126.663 χ^2 /NDF: 28.6/24

Right Out: -803.865 $\pm$ 1235.746 χ^2 /NDF: 25.7/35

Left In: -158.683 $\pm$ 1161.507 χ^2 /NDF: 15.5/22

Left: 490.957 $\pm$ 808.709 χ^2 /NDF: 44.7/47

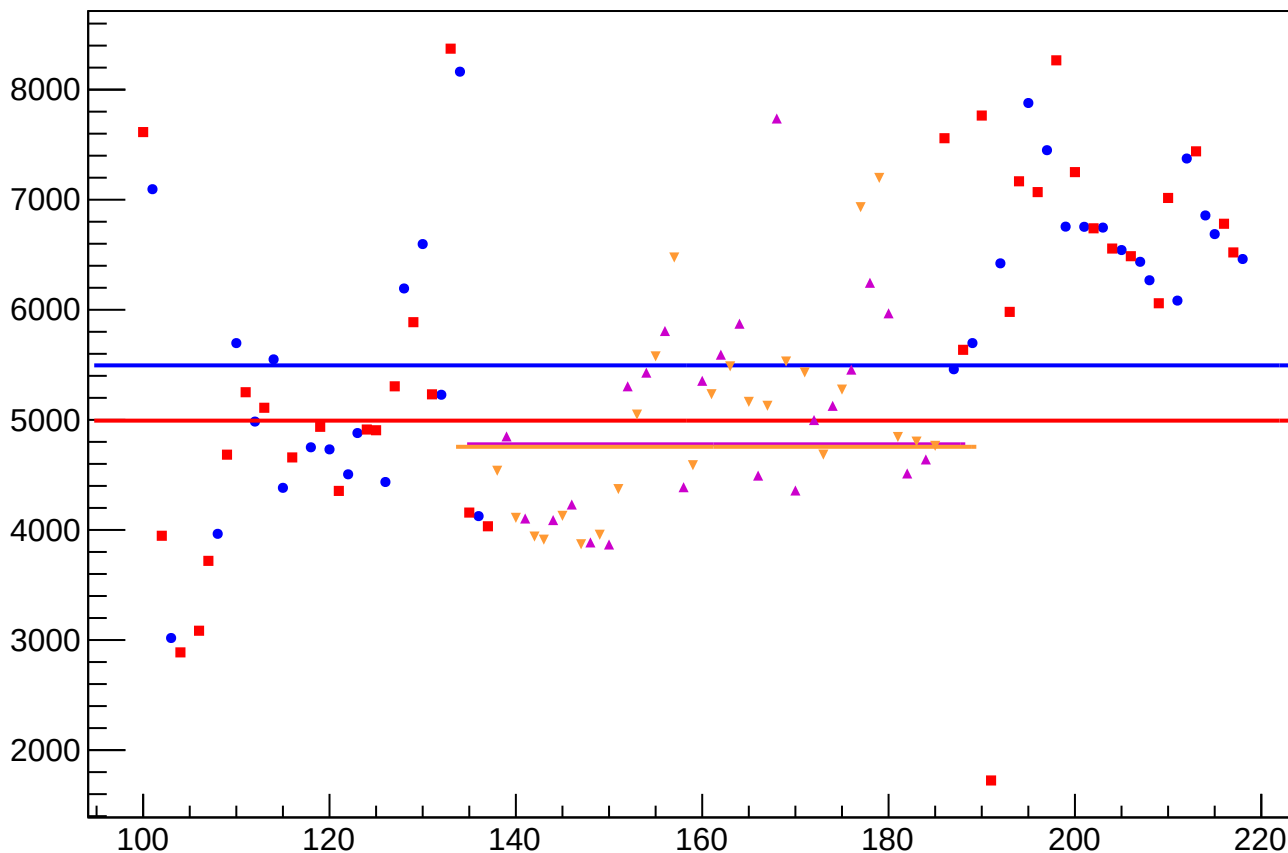
Right: -291.273 $\pm$ 905.919 χ^2 /NDF: 71.4/68

In: 41.289 $\pm$ 875.418 χ^2 /NDF: 60.9/55

Out: 236.994 $\pm$ 832.570 χ^2 /NDF: 55.5/60

All: 144.048 $\pm$ 603.295 χ^2 /NDF: 116.5/116

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5495.053 $\pm$ 0.942 χ^2/NDF : 2160862.4/32

Left Out: 4755.383 $\pm$ 0.797 χ^2/NDF : 953328.0/24

Right Out: 4993.097 $\pm$ 0.871 χ^2/NDF : 3998071.5/35

Left In: 4777.831 $\pm$ 0.821 χ^2/NDF : 950291.2/22

Left: 4766.265 $\pm$ 0.572 χ^2/NDF : 1904004.1/47

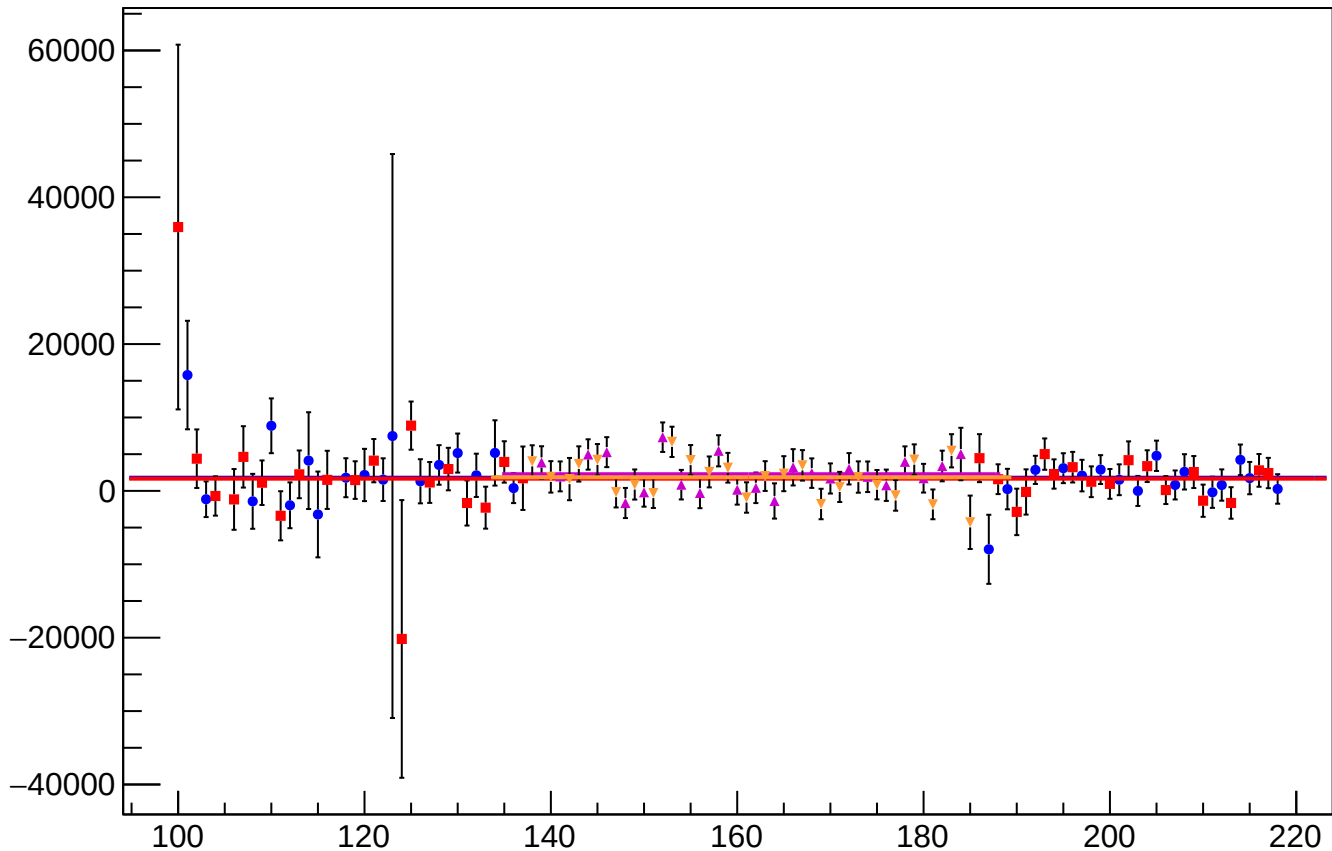
Right: 5224.544 $\pm$ 0.640 χ^2/NDF : 6311999.9/68

In: 5087.634 $\pm$ 0.619 χ^2/NDF : 3440555.7/55

Out: 4863.639 $\pm$ 0.588 χ^2/NDF : 4991945.3/60

All: 4969.869 $\pm$ 0.426 χ^2/NDF : 8501343.3/11

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1793.447 $\pm$ 445.591 χ^2 /NDF: 26.7/32

Left Out: 1856.570 $\pm$ 430.977 χ^2 /NDF:30.0/24

Right Out: 1664.345 $\pm$ 441.944 χ^2 /NDF: 30.8/35

Left In: 2268.464 $\pm$ 441.710 χ^2 /NDF:26.9/22

Left: 2057.452 $\pm$ 308.471 χ^2 /NDF: 57.3/47

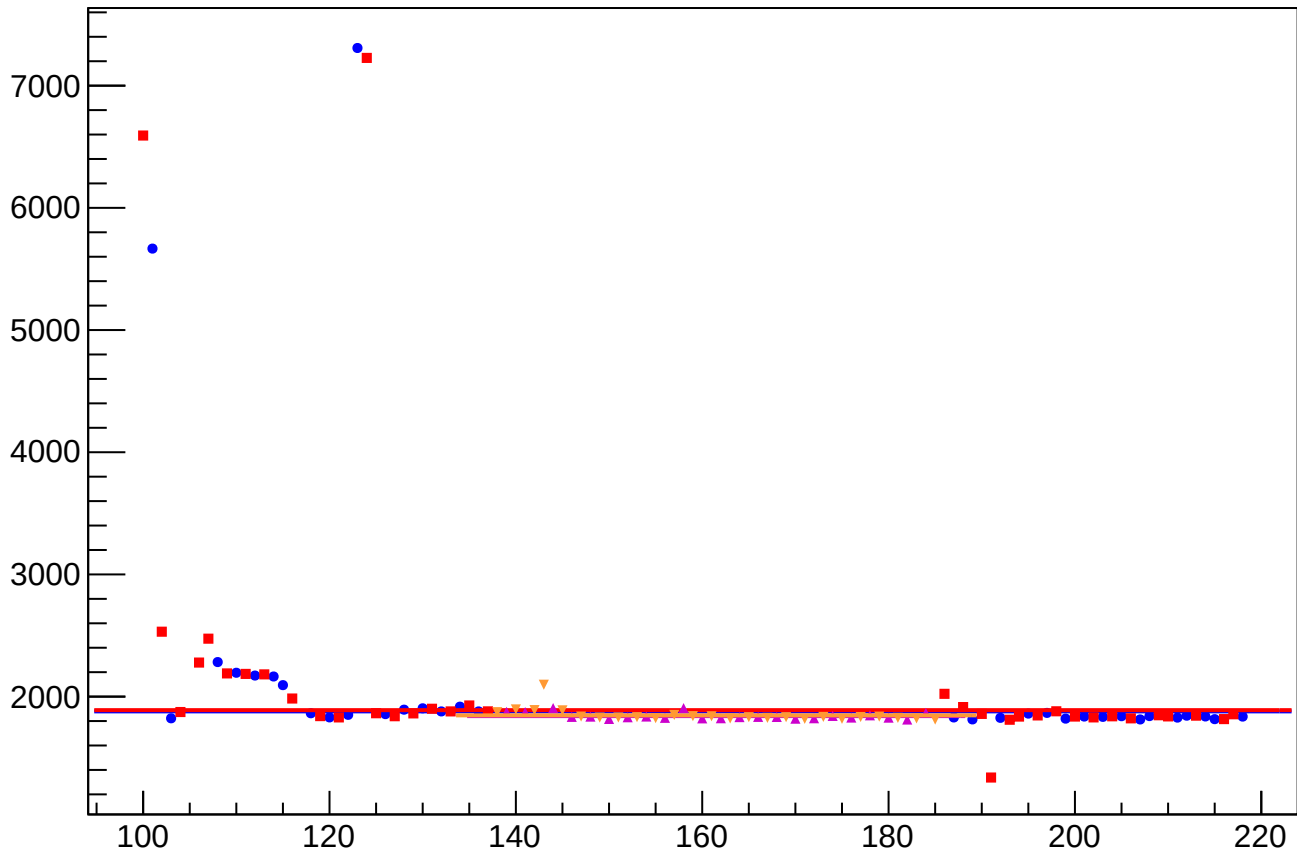
Right: 1728.365 $\pm$ 313.783 χ^2 /NDF: 57.6/68

In: 2033.033 $\pm$ 313.699 χ^2 /NDF:54.2/55

Out: 1762.872 $\pm$ 308.551 χ^2 /NDF:60.9/60

All: 1895.718 $\pm$ 219.976 χ^2 /NDF: 115.4/116

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1879.201+/-0.315 χ^2/NDF : 644136.9/32

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1889.251+/-0.313 χ^2/NDF : 479444.2/35

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

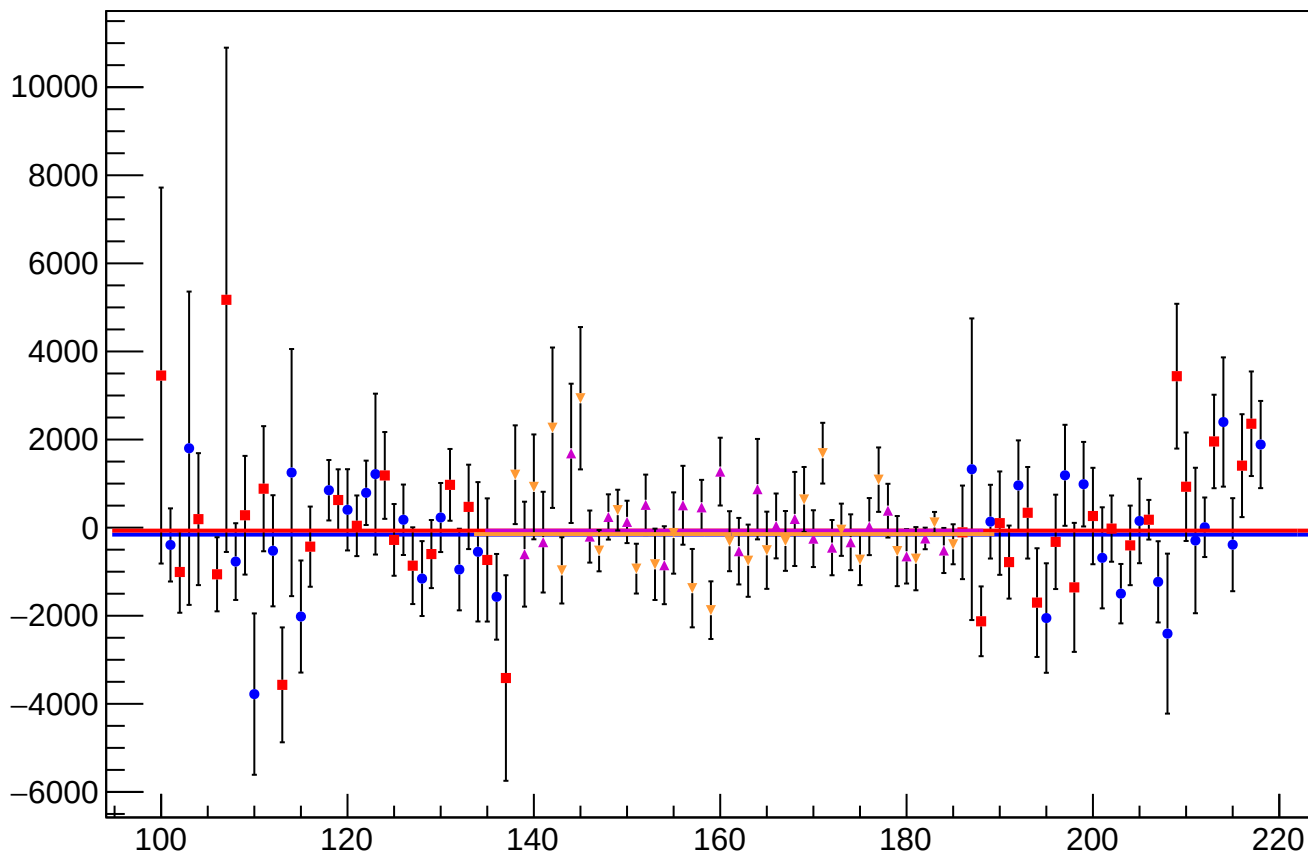
Right: 1884.267+/-0.222 χ^2/NDF : 1124094.0/68

In: 1859.702+/-0.222 χ^2/NDF : 658470.4/55

Out: 1867.391+/-0.218 χ^2/NDF : 516293.8/60

All: 1863.610+/-0.156 χ^2/NDF : 1175374.8/117

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -157.854+/-175.115 χ^2/NDF : 37.9/32

Left Out: -146.999+/-121.984 χ^2/NDF : 37.7/24

Right Out: -67.702+/-160.856 χ^2/NDF : 45.5/35

Left In: -70.340+/-126.373 χ^2/NDF : 12.3/22

Left: -110.024+/-87.766 χ^2/NDF : 50.1/47

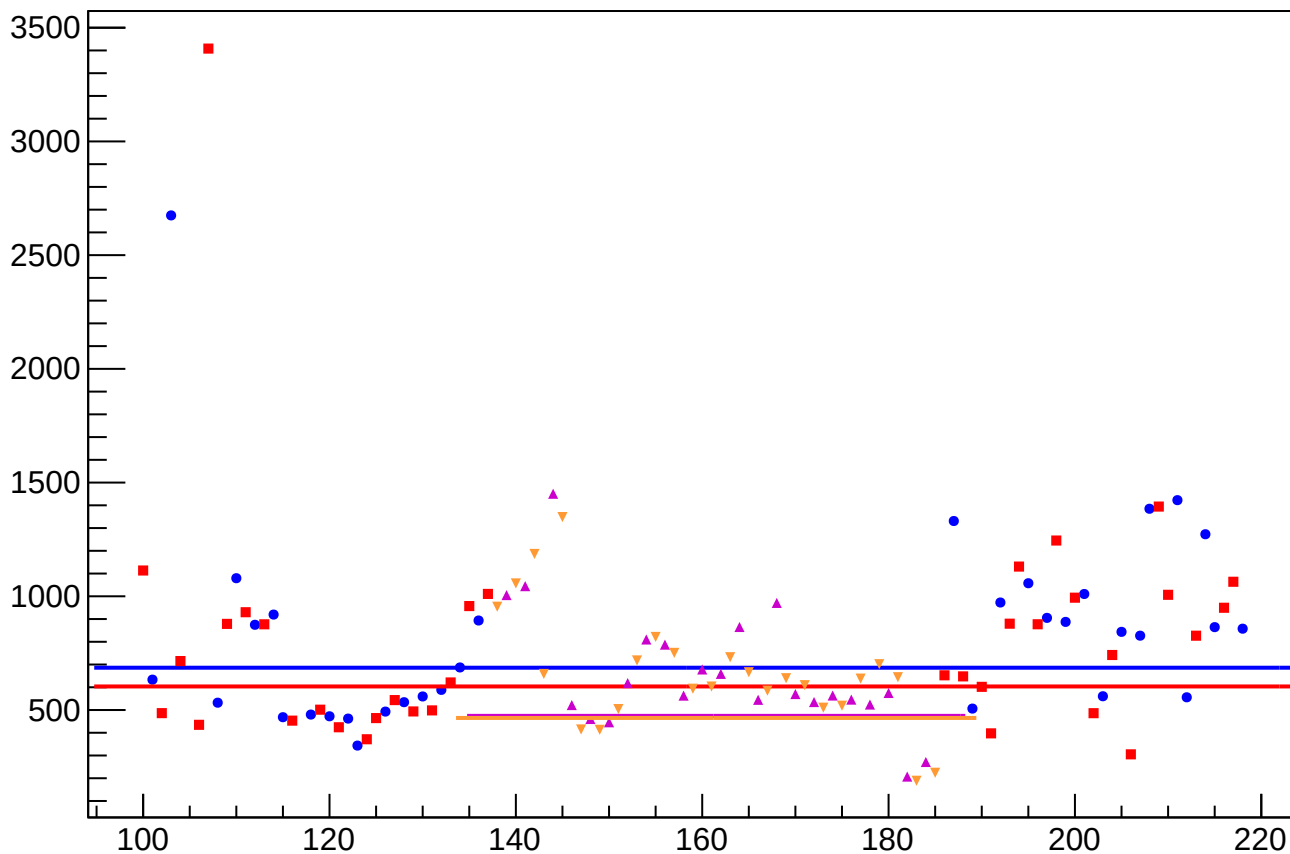
Right: -108.959+/-118.463 χ^2/NDF : 83.6/68

In: -100.309+/-102.475 χ^2/NDF : 50.4/55

Out: -118.047+/-97.197 χ^2/NDF : 83.3/60

All: -109.646+/-70.521 χ^2/NDF : 133.7/116

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 685.967 $\pm$ 0.124 χ^2/NDF : 3990595.0/32

Left Out: 465.080 $\pm$ 0.086 χ^2/NDF : 7086137.6/24

Right Out: 603.567 $\pm$ 0.114 χ^2/NDF : 5209941.6/35

Left In: 474.263 $\pm$ 0.089 χ^2/NDF : 6173100.1/22

Left: 469.509 $\pm$ 0.062 χ^2/NDF : 13264703.6/47

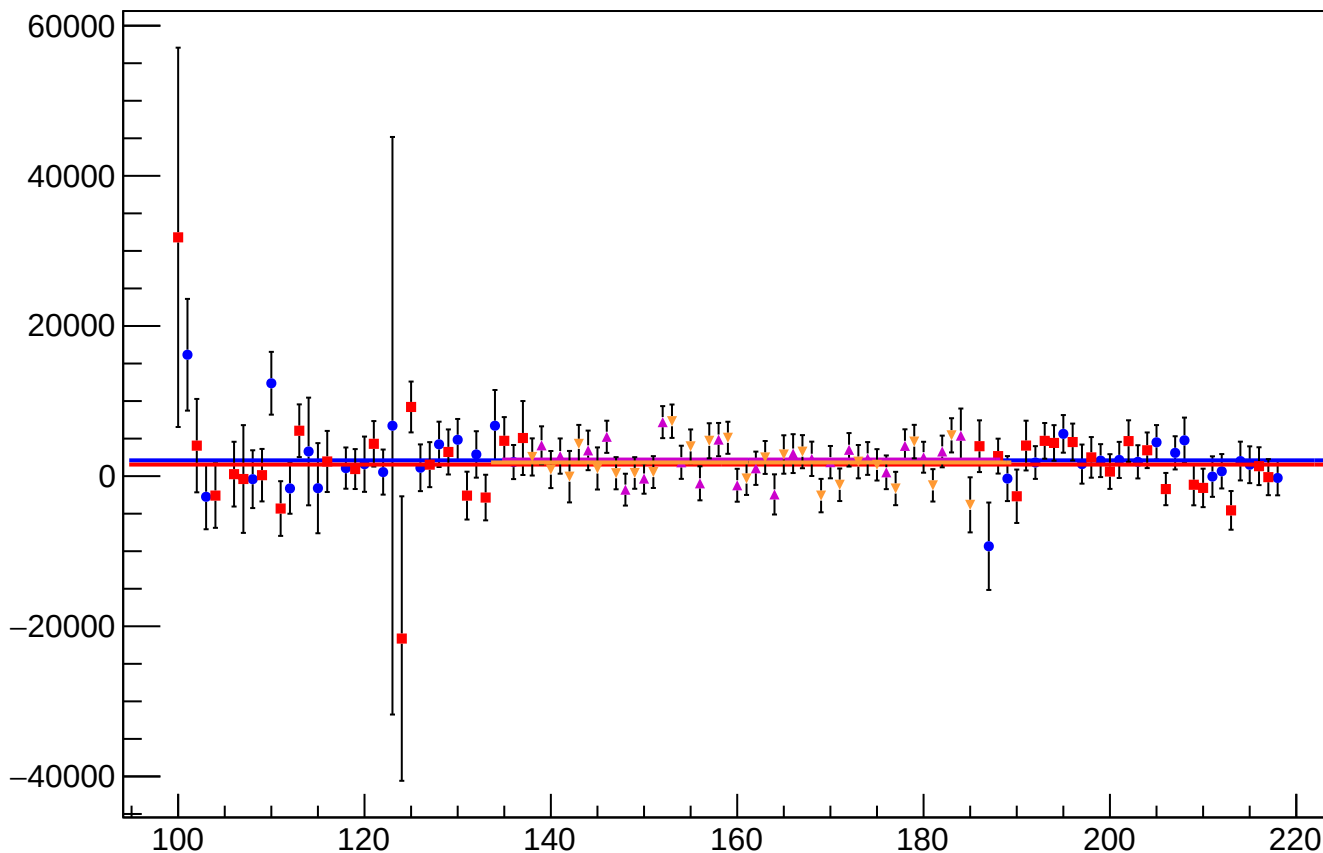
Right: 641.277 $\pm$ 0.084 χ^2/NDF : 9440712.9/68

In: 546.760 $\pm$ 0.072 χ^2/NDF : 12085797.2/55

Out: 515.644 $\pm$ 0.069 χ^2/NDF : 13237248.6/60

All: 530.380 $\pm$ 0.050 χ^2/NDF : 25420121.9/11

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2102.263 $\pm$ 505.624 χ^2 /NDF: 26.7/32

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 1540.920 $\pm$ 503.853 χ^2 /NDF: 40.7/35

Left In: 2208.114 $\pm$ 474.050 χ^2 /NDF:25.3/22

Left: 2011.435 $\pm$ 331.116 χ^2 /NDF: 57.8/47

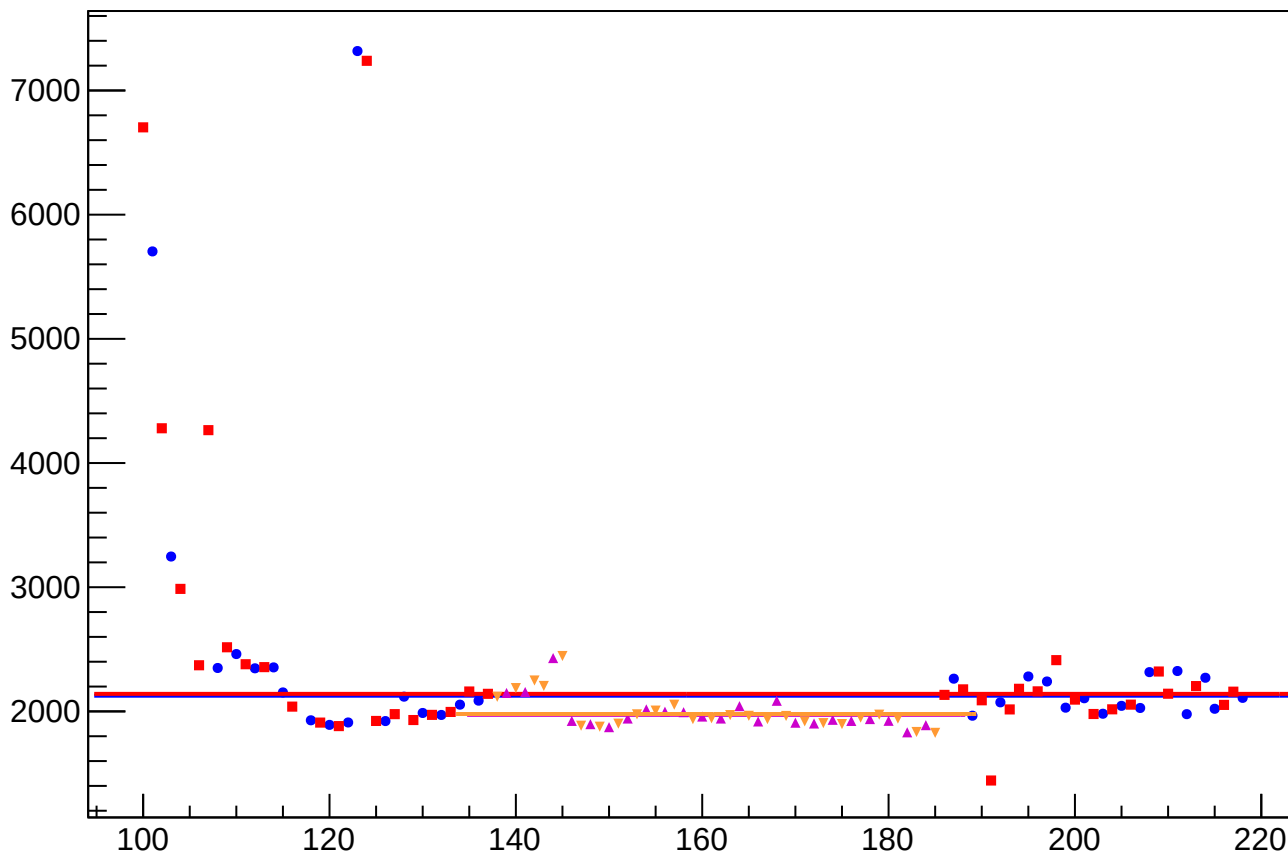
Right: 1820.607 $\pm$ 356.903 χ^2 /NDF: 68.1/68

In: 2158.596 $\pm$ 345.828 χ^2 /NDF:52.1/55

Out: 1694.528 $\pm$ 340.797 χ^2 /NDF:73.0/60

All: 1923.163 $\pm$ 242.739 χ^2 /NDF: 126.0/116

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2126.489+/-0.358 χ^2/NDF : 787825.3/32

Left Out: 1978.997+/-0.327 χ^2/NDF :139299.8/24

Right Out: 2141.134+/-0.356 χ^2/NDF : 954290.6/35

Left In: 1972.166+/-0.335 χ^2/NDF :116452.5/22

Left: 1975.665+/-0.234 χ^2/NDF : 255965.0/47

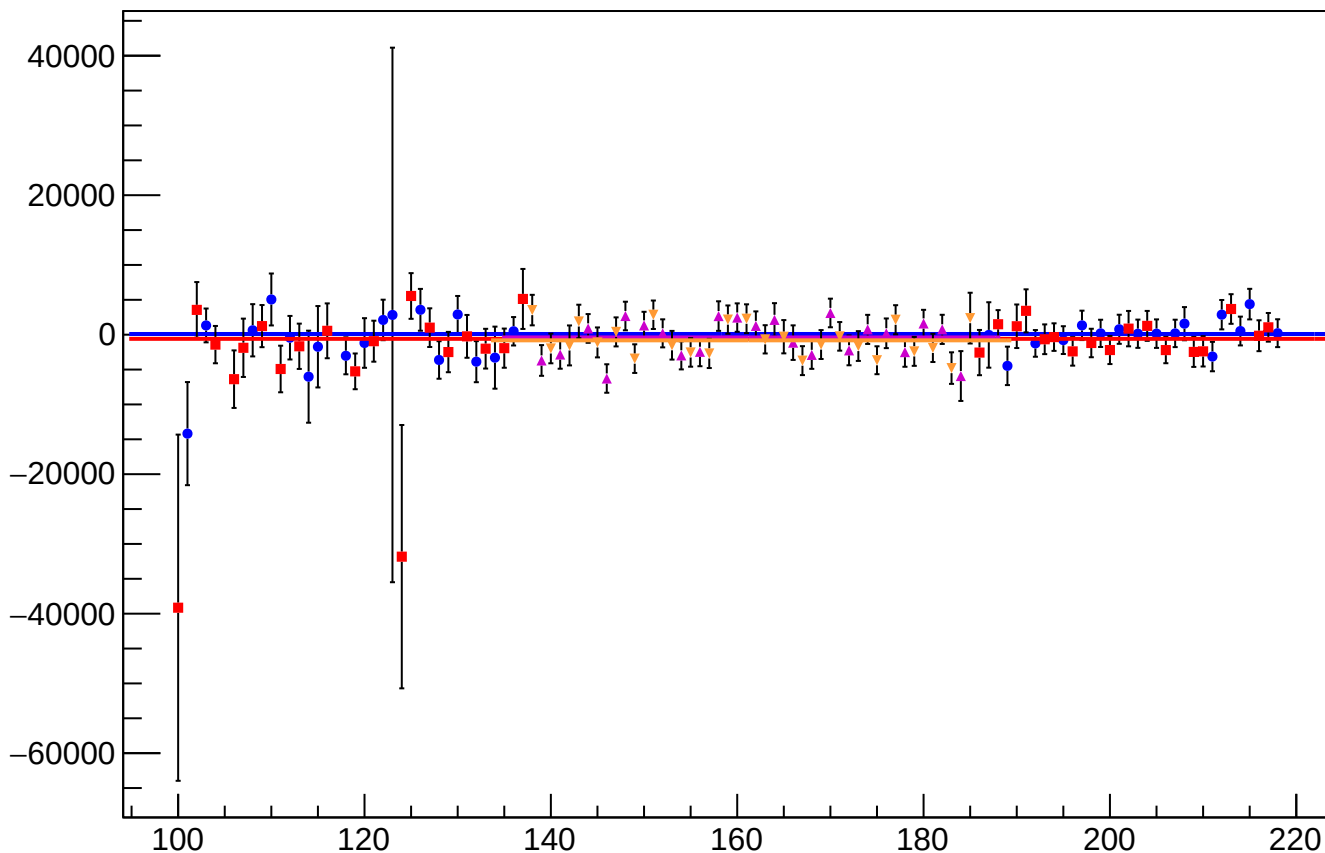
Right: 2133.837+/-0.252 χ^2/NDF : 1742957.9/68

In: 2044.359+/-0.245 χ^2/NDF :1003430.6/55

Out: 2053.174+/-0.241 χ^2/NDF :1205945.5/60

All: 2048.831+/-0.172 χ^2/NDF : 2210035.3/11

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: 100.152+/-442.502 χ^2/NDF : 27.8/32

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -593.443+/-438.630 χ^2/NDF : 33.5/35

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

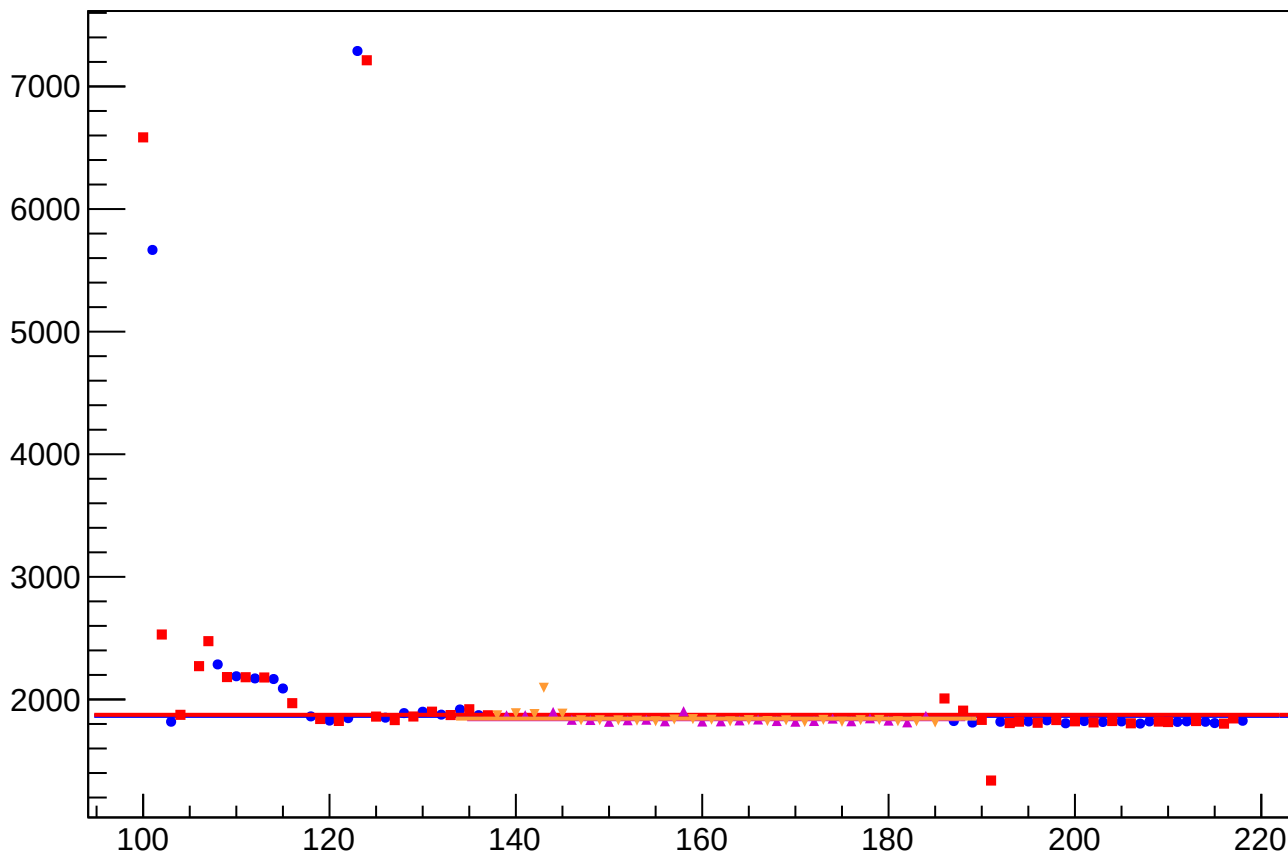
Right: -249.694+/-311.518 χ^2/NDF : 62.5/68

In: -150.032+/-312.451 χ^2/NDF : 62.8/55

Out: -702.999+/-307.172 χ^2/NDF : 61.5/60

All: -431.227+/-219.046 χ^2/NDF : 126.0/116

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1865.944+/-0.313 χ^2/NDF : 653967.5/32

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1874.887+/-0.310 χ^2/NDF : 488213.6/35

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

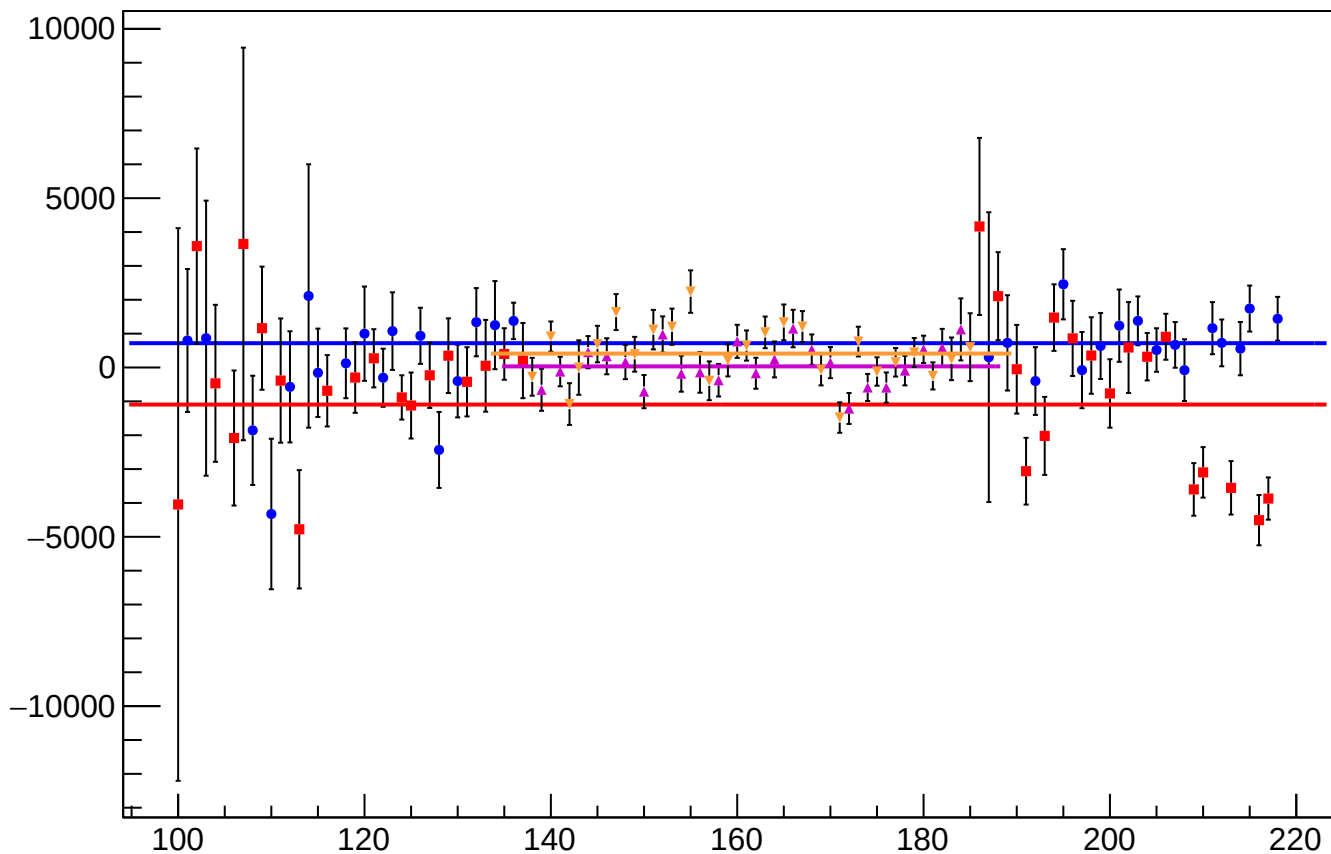
Right: 1870.455+/-0.220 χ^2/NDF : 1142593.1/68

In: 1852.239+/-0.221 χ^2/NDF : 664128.8/55

Out: 1859.019+/-0.217 χ^2/NDF : 520217.8/60

All: 1855.686+/-0.155 χ^2/NDF : 1184825.4/118

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 718.044 $\pm$ 165.436 χ^2/NDF : 32.3/32

Left Out: 411.072 $\pm$ 100.456 χ^2/NDF : 61.2/24

Right Out: -1094.078 $\pm$ 169.101 χ^2/NDF : 131.9/35

Left In: 32.456 $\pm$ 102.403 χ^2/NDF : 32.7/22

Left: 225.398 $\pm$ 71.712 χ^2/NDF : 100.9/47

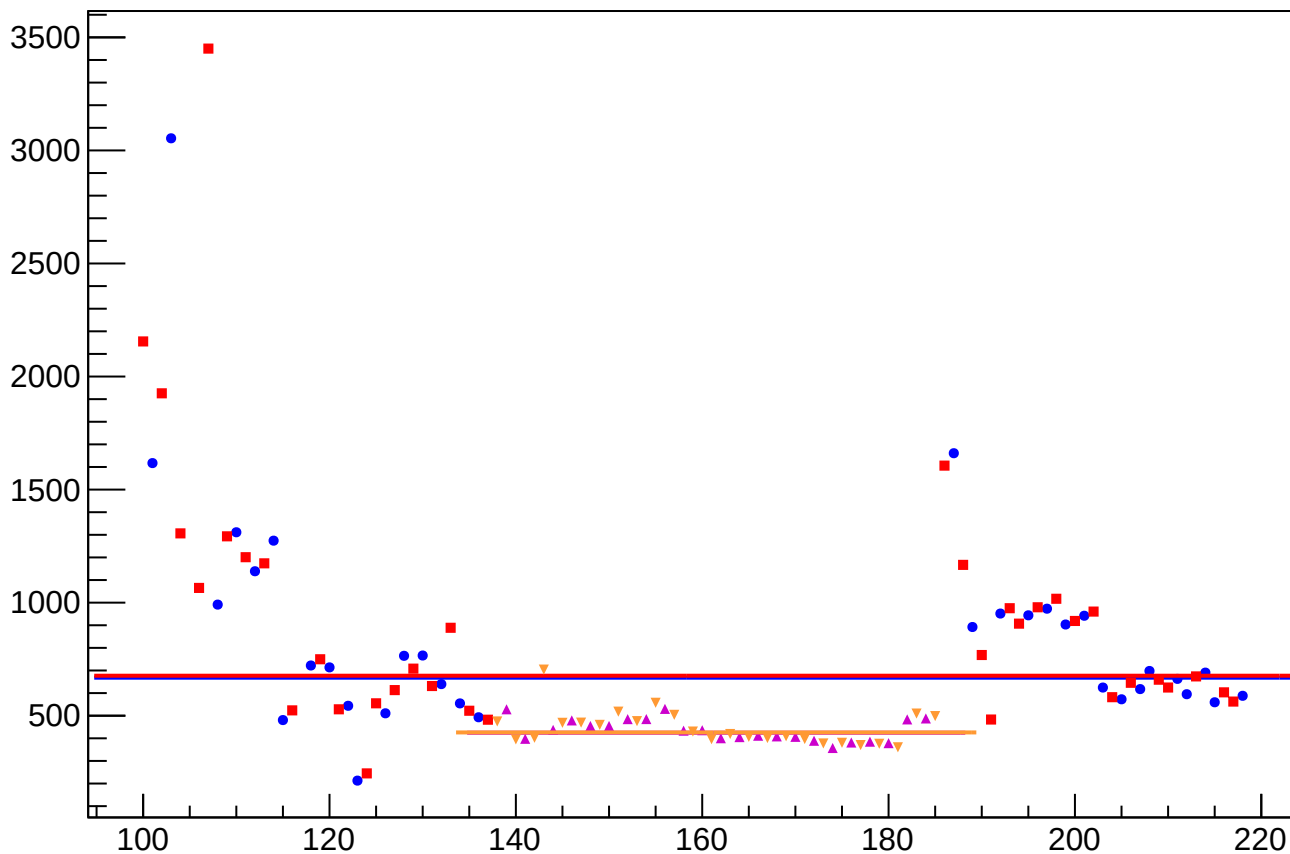
Right: -168.166 $\pm$ 118.255 χ^2/NDF : 222.8/68

In: 222.372 $\pm$ 87.072 χ^2/NDF : 77.4/55

Out: 18.453 $\pm$ 86.366 χ^2/NDF : 251.6/60

All: 119.582 $\pm$ 61.318 χ^2/NDF : 331.8/116

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 668.182 $\pm$ 0.117 χ^2 /NDF: 3320686.7/32

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF:733072.9/24

Right Out: 676.860 $\pm$ 0.120 χ^2 /NDF: 4442803.0/35

Left In: 424.639 $\pm$ 0.072 χ^2 /NDF:391611.2/22

Left: 425.346 $\pm$ 0.051 χ^2 /NDF: 1124871.5/47

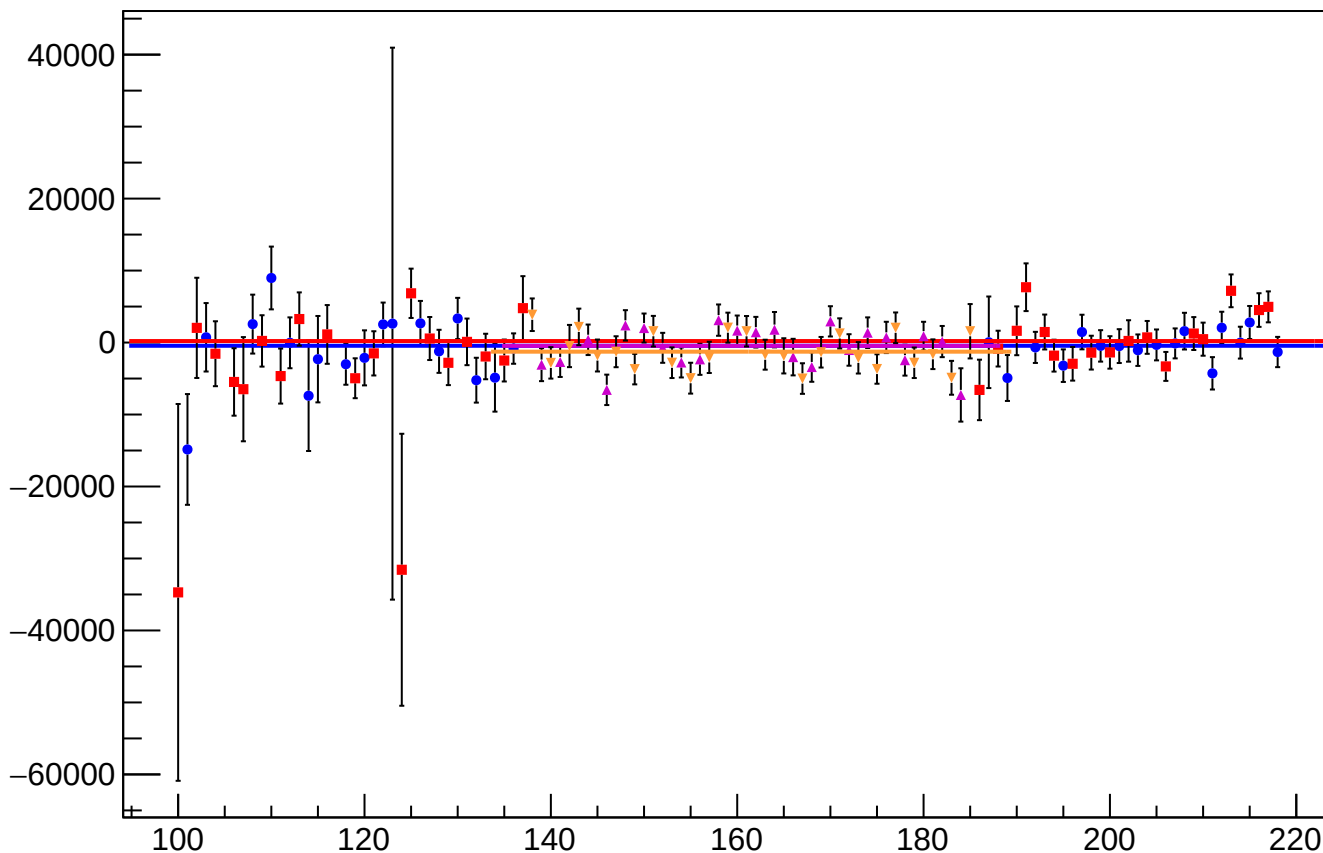
Right: 672.426 $\pm$ 0.084 χ^2 /NDF: 7766180.9/68

In: 492.103 $\pm$ 0.062 χ^2 /NDF:6845973.3/55

Out: 491.457 $\pm$ 0.061 χ^2 /NDF:8428525.9/60

All: 491.777 $\pm$ 0.043 χ^2 /NDF: 15274554.7/11

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -446.936+/-485.916 χ^2 /NDF: 29.0/32

Left Out: -1267.885+/-443.219 χ^2 /NDF:30.8/24

Right Out: 209.032+/-488.875 χ^2 /NDF: 53.3/35

Left In: -462.599+/-453.947 χ^2 /NDF:32.6/22

Left: -874.870+/-317.128 χ^2 /NDF: 65.0/47

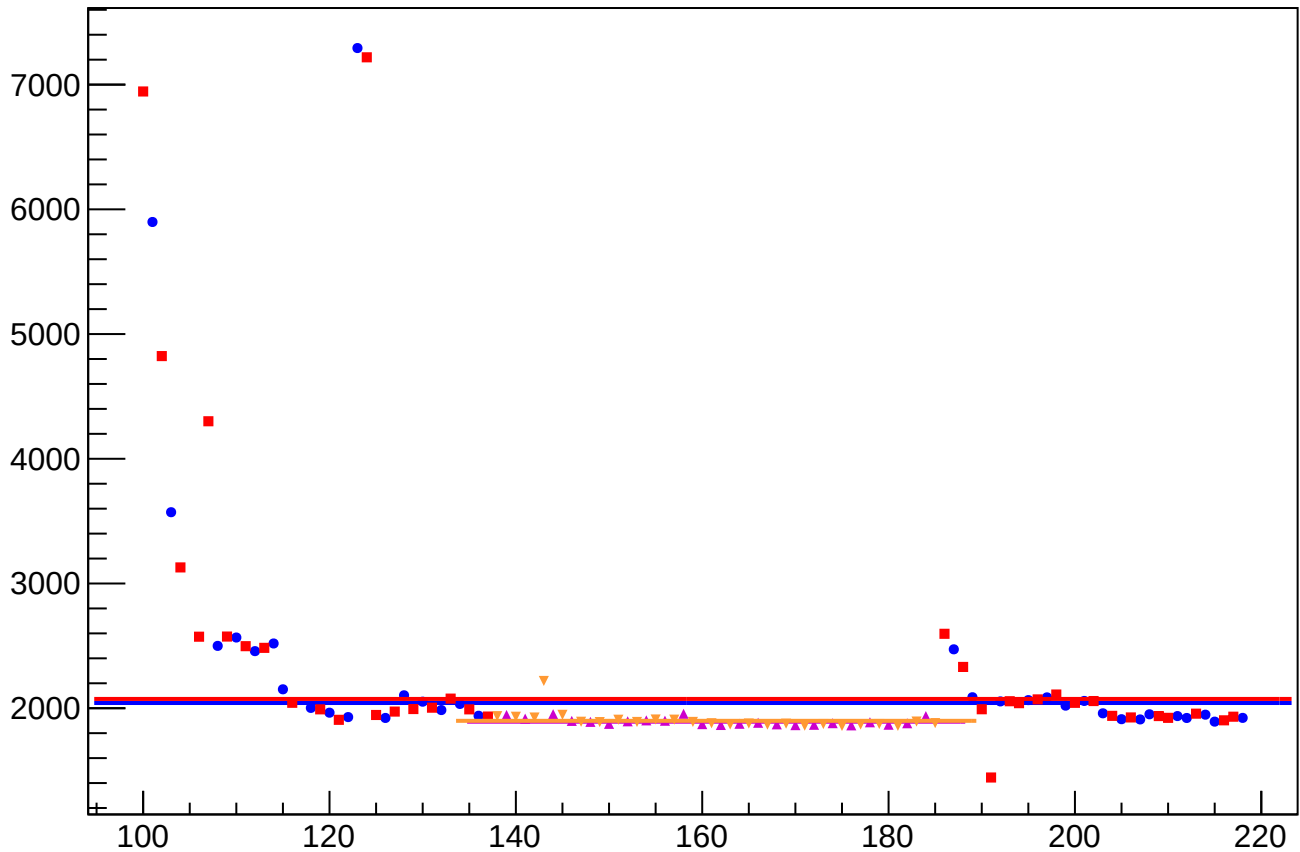
Right: -120.943+/-344.636 χ^2 /NDF: 83.2/68

In: -455.300+/-331.715 χ^2 /NDF:61.5/55

Out: -601.597+/-328.361 χ^2 /NDF:89.2/60

All: -529.192+/-233.363 χ^2 /NDF: 150.8/116

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2041.759 $\pm$ 0.344 χ^2 /NDF: 910616.8/32

Left Out: 1898.962 $\pm$ 0.313 χ^2 /NDF: 38680.4/24

Right Out: 2074.477 $\pm$ 0.346 χ^2 /NDF: 1144052.5/35

Left In: 1891.693 $\pm$ 0.321 χ^2 /NDF: 7420.7/22

Left: 1895.414 $\pm$ 0.224 χ^2 /NDF: 46363.6/47

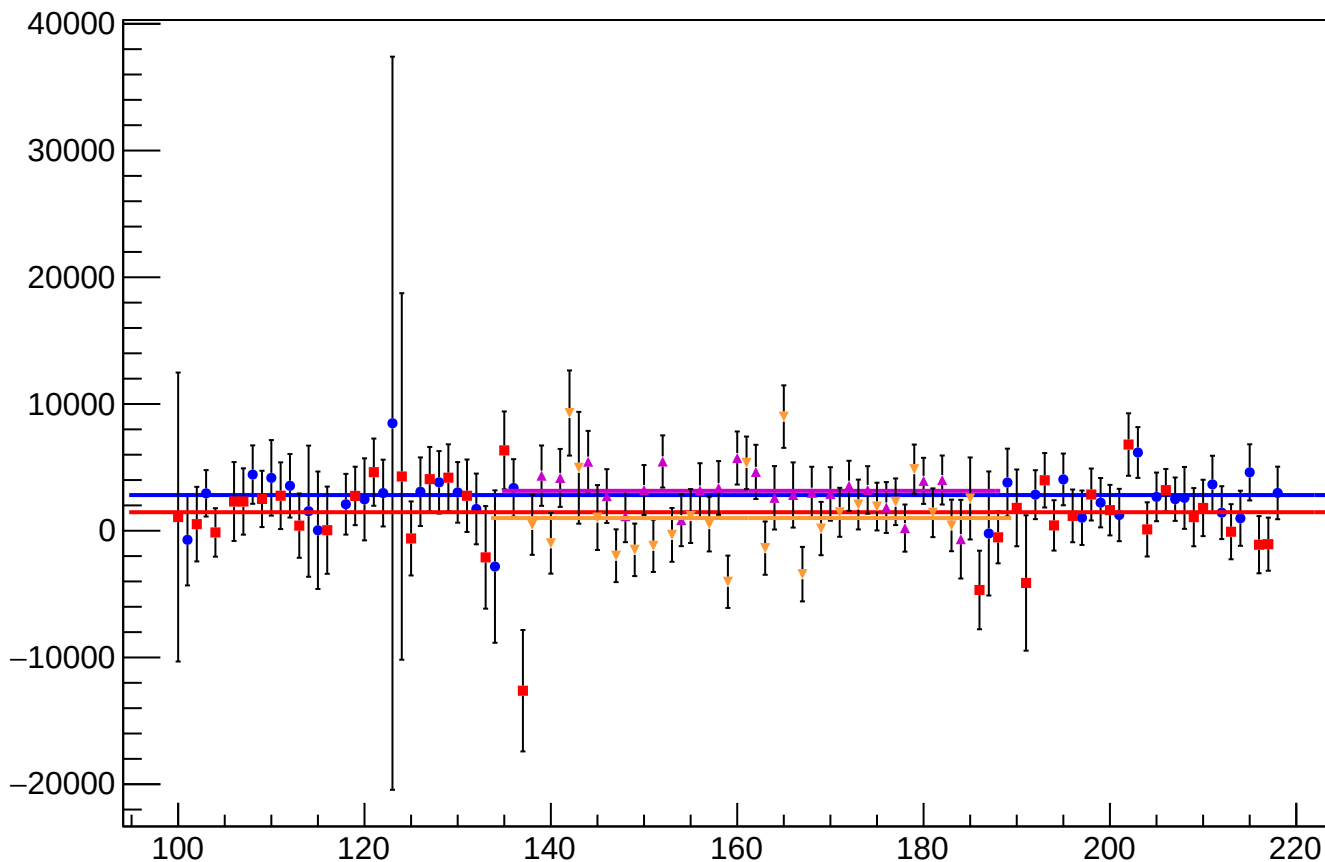
Right: 2058.019 $\pm$ 0.244 χ^2 /NDF: 2059175.5/68

In: 1961.627 $\pm$ 0.235 χ^2 /NDF: 1019895.4/55

Out: 1978.143 $\pm$ 0.232 χ^2 /NDF: 1324225.0/60

All: 1969.969 $\pm$ 0.165 χ^2 /NDF: 2346624.5/11

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2815.087+/-420.120 χ^2/NDF : 10.7/32

Left Out: 1001.263+/-435.247 χ^2/NDF : 44.6/24

Right Out: 1462.745+/-416.604 χ^2/NDF : 35.9/35

Left In: 3150.437+/-441.145 χ^2/NDF : 11.8/22

Left: 2061.387+/-309.830 χ^2/NDF : 68.5/47

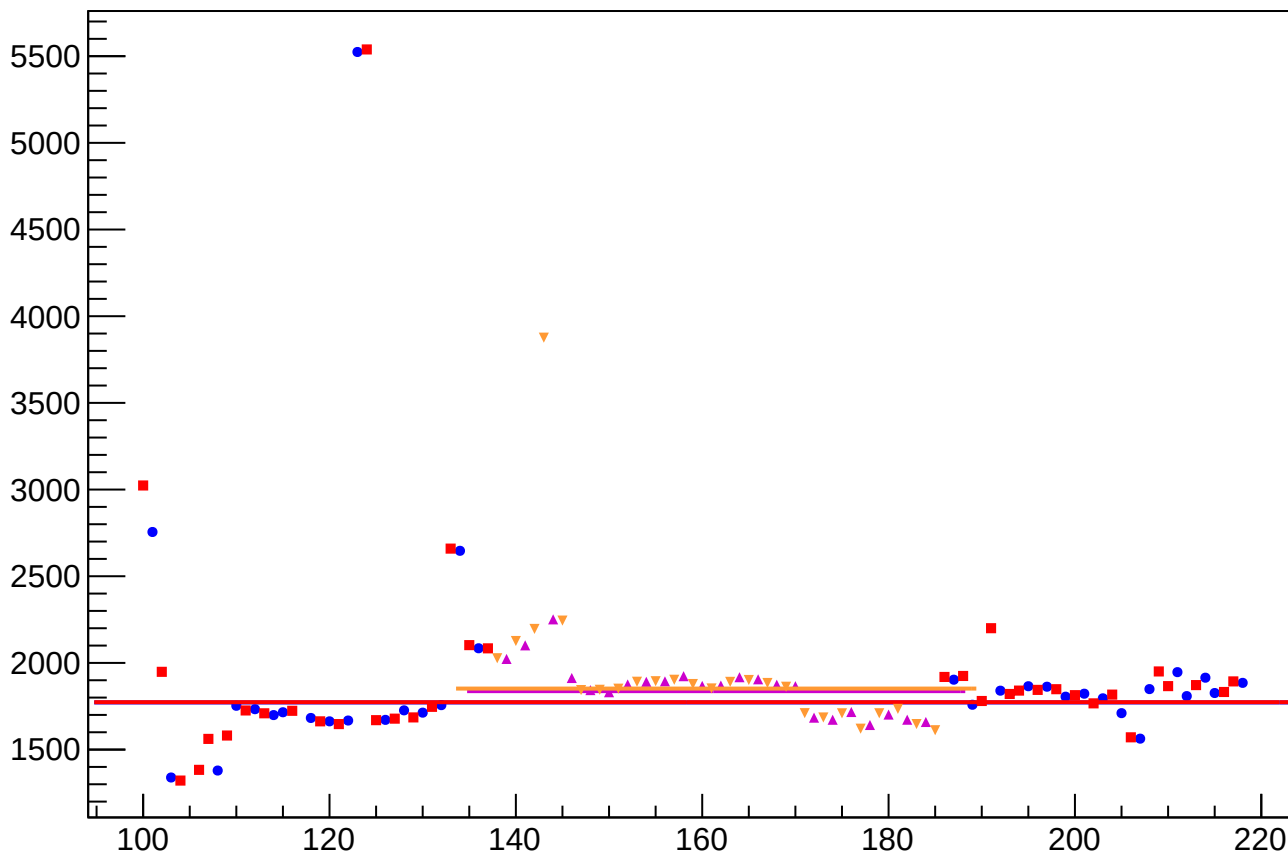
Right: 2133.234+/-295.819 χ^2/NDF : 51.8/68

In: 2974.580+/-304.231 χ^2/NDF : 22.8/55

Out: 1242.099+/-300.959 χ^2/NDF : 81.1/60

All: 2098.972+/-213.957 χ^2/NDF : 120.3/116

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1771.873 $\pm$ 0.297 χ^2 /NDF: 522958.4/32

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1773.459 $\pm$ 0.295 χ^2 /NDF: 579380.3/35

Left In: 1837.151 $\pm$ 0.312 χ^2 /NDF: 200514.0/22

Left: 1844.654 $\pm$ 0.219 χ^2 /NDF: 850610.1/47

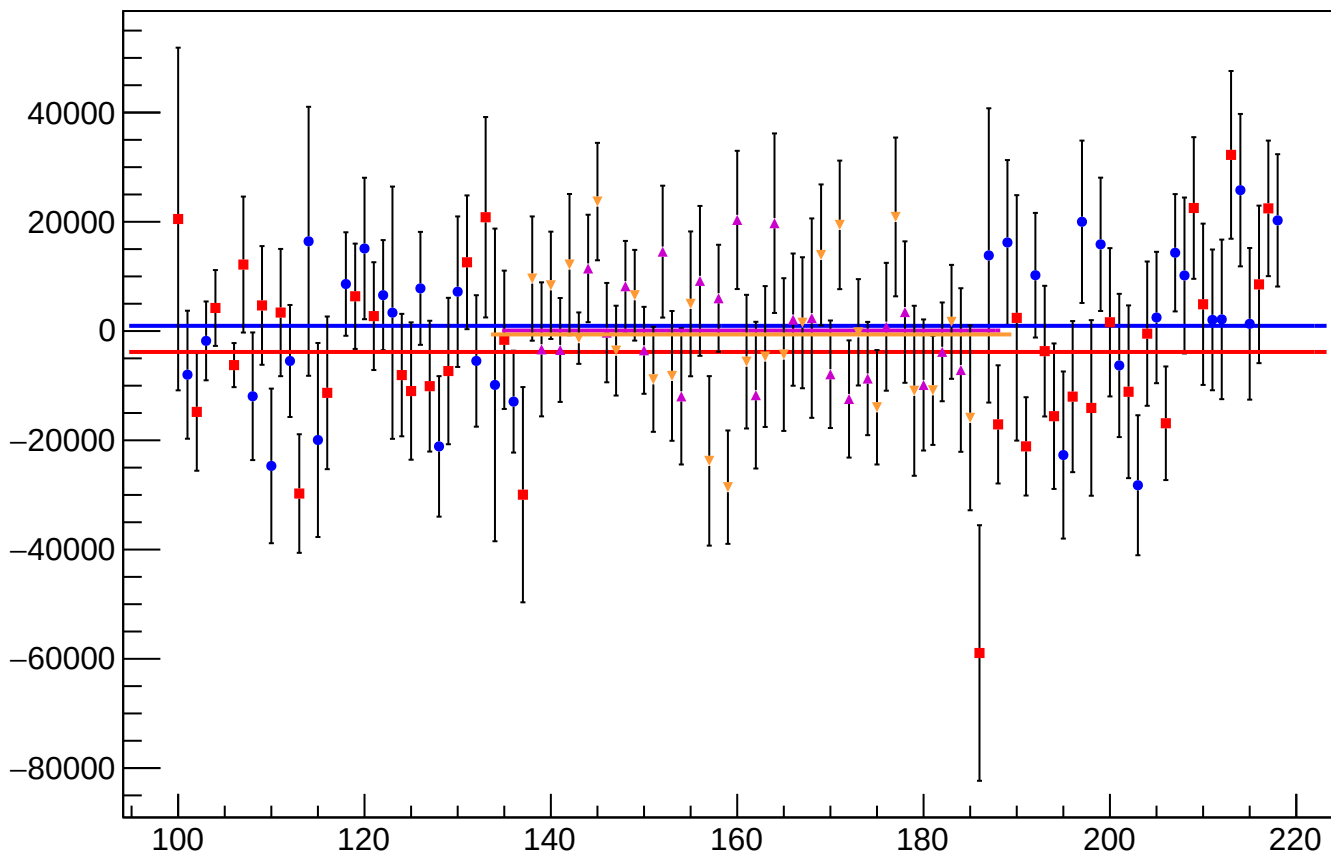
Right: 1772.673 $\pm$ 0.209 χ^2 /NDF: 1102353.1/68

In: 1802.919 $\pm$ 0.215 χ^2 /NDF: 746436.7/55

Out: 1810.992 $\pm$ 0.213 χ^2 /NDF: 1262286.2/60

All: 1806.999 $\pm$ 0.151 χ^2 /NDF: 2009434.5/111

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: 954.095 ± 2174.363 $\chi^2/\text{NDF}: 36.5/32$

Left Out: -619.372 ± 2069.686 $\chi^2/\text{NDF}: 30.1/24$

Right Out: -3827.312 ± 1853.637 $\chi^2/\text{NDF}: 49.3/35$

Left In: 93.334 ± 2293.826 $\chi^2/\text{NDF}: 14.6/22$

Left: -299.532 ± 1536.638 $\chi^2/\text{NDF}: 44.8/47$

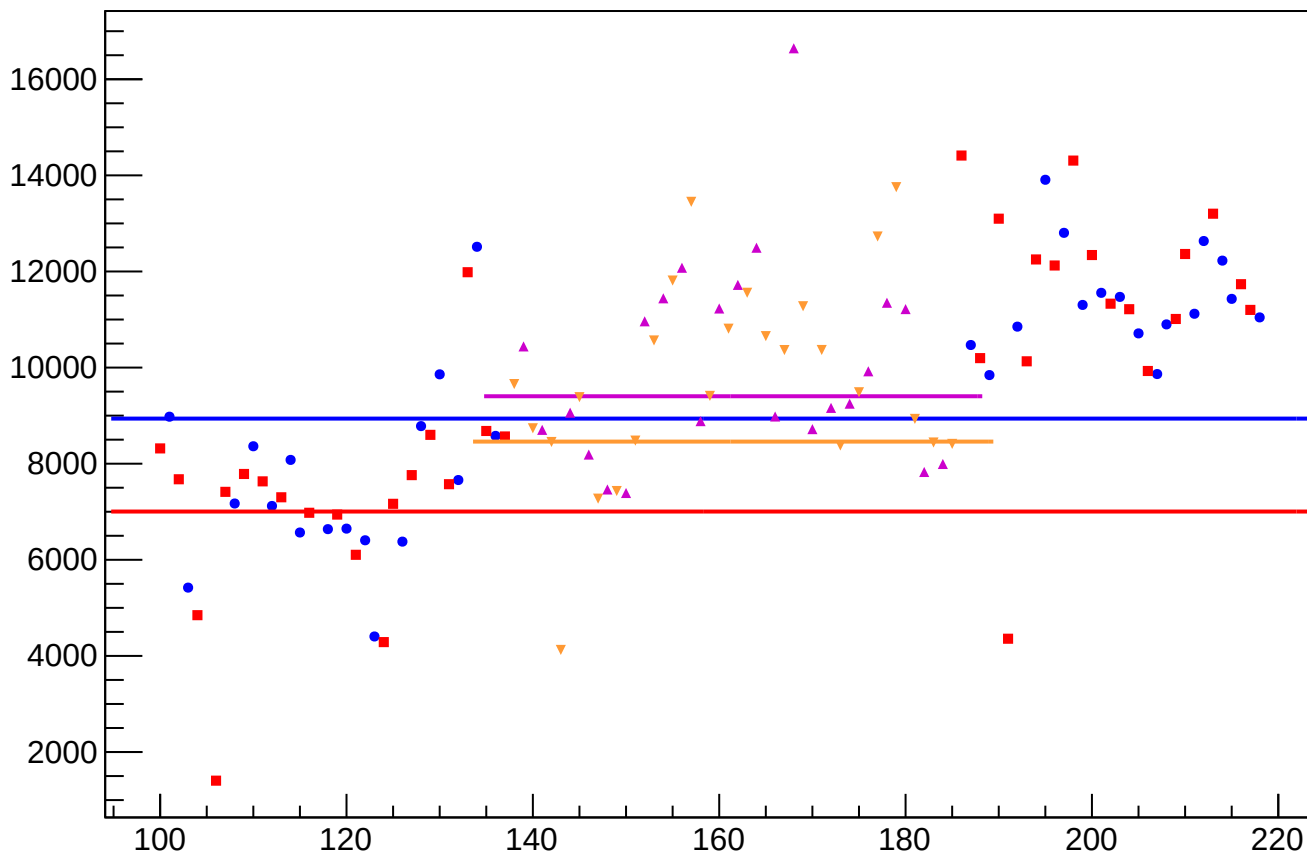
Right: -1814.925 ± 1410.620 $\chi^2/\text{NDF}: 88.6/68$

In: 546.712 ± 1578.050 $\chi^2/\text{NDF}: 51.1/55$

Out: -2399.462 ± 1380.806 $\chi^2/\text{NDF}: 80.8/60$

All: -1121.905 ± 1039.158 $\chi^2/\text{NDF}: 133.9/111$

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8938.511+/-1.538 χ^2/NDF : 2364534.5/32

Left Out: 8459.960+/-1.463 χ^2/NDF : 3087200.5/24

Right Out: 7004.423+/-1.311 χ^2/NDF : 8324673.2/35

Left In: 9403.481+/-1.622 χ^2/NDF : 1142646.9/22

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

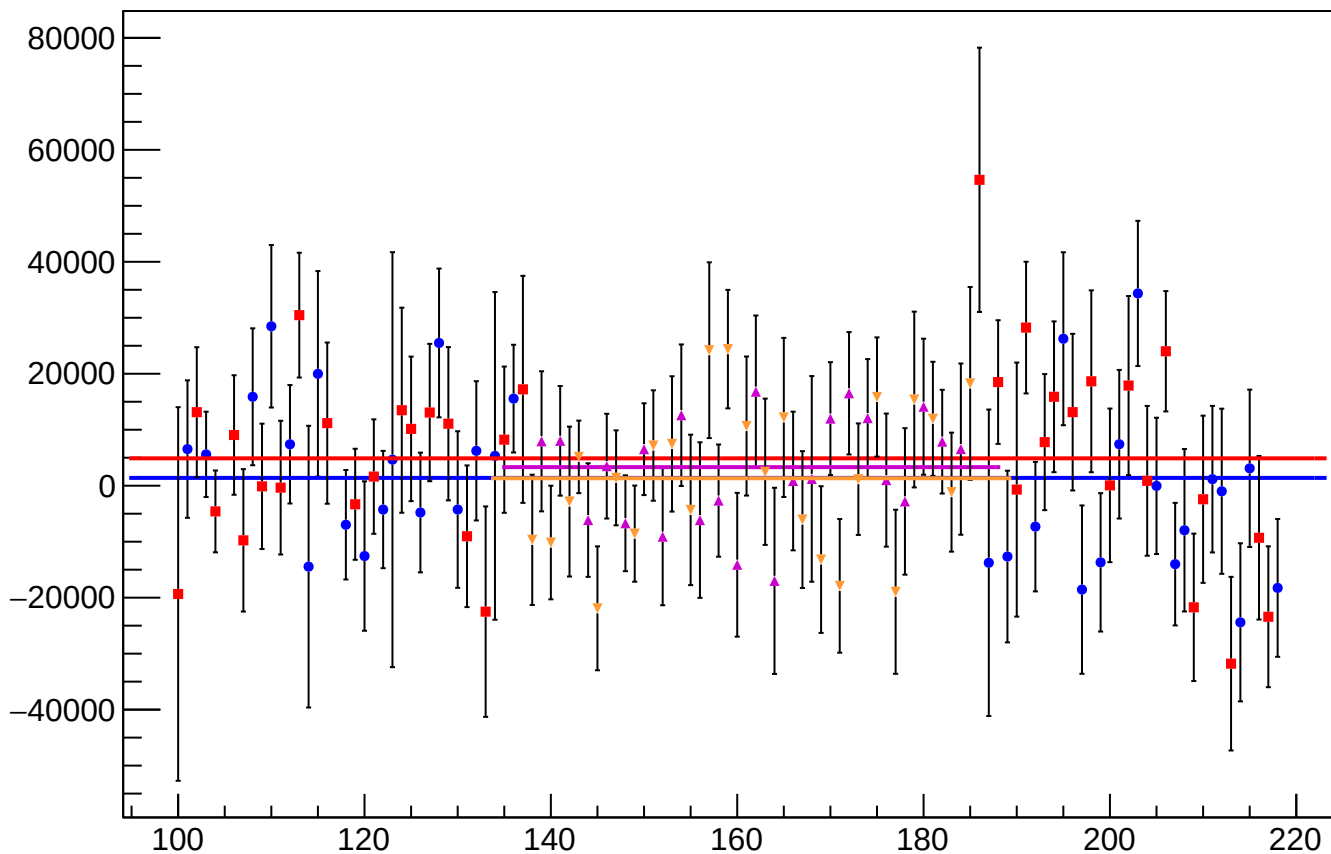
Right: 7818.438+/-0.997 χ^2/NDF : 11605615.7/68

In: 9158.574+/-1.116 χ^2/NDF : 3550466.2/55

Out: 7652.281+/-0.976 χ^2/NDF : 11960761.0/60

All: 8305.458+/-0.735 χ^2/NDF : 16543288.6/100

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 1395.970+/-2239.361 χ^2/NDF : 37.9/32

Left Out: 1332.828+/-2213.733 χ^2/NDF : 28.0/24

Right Out: 4890.679+/-2146.079 χ^2/NDF : 47.3/35

Left In: 3316.909+/-2344.543 χ^2/NDF : 13.7/22

Left: 2267.978+/-1609.604 χ^2/NDF : 42.2/47

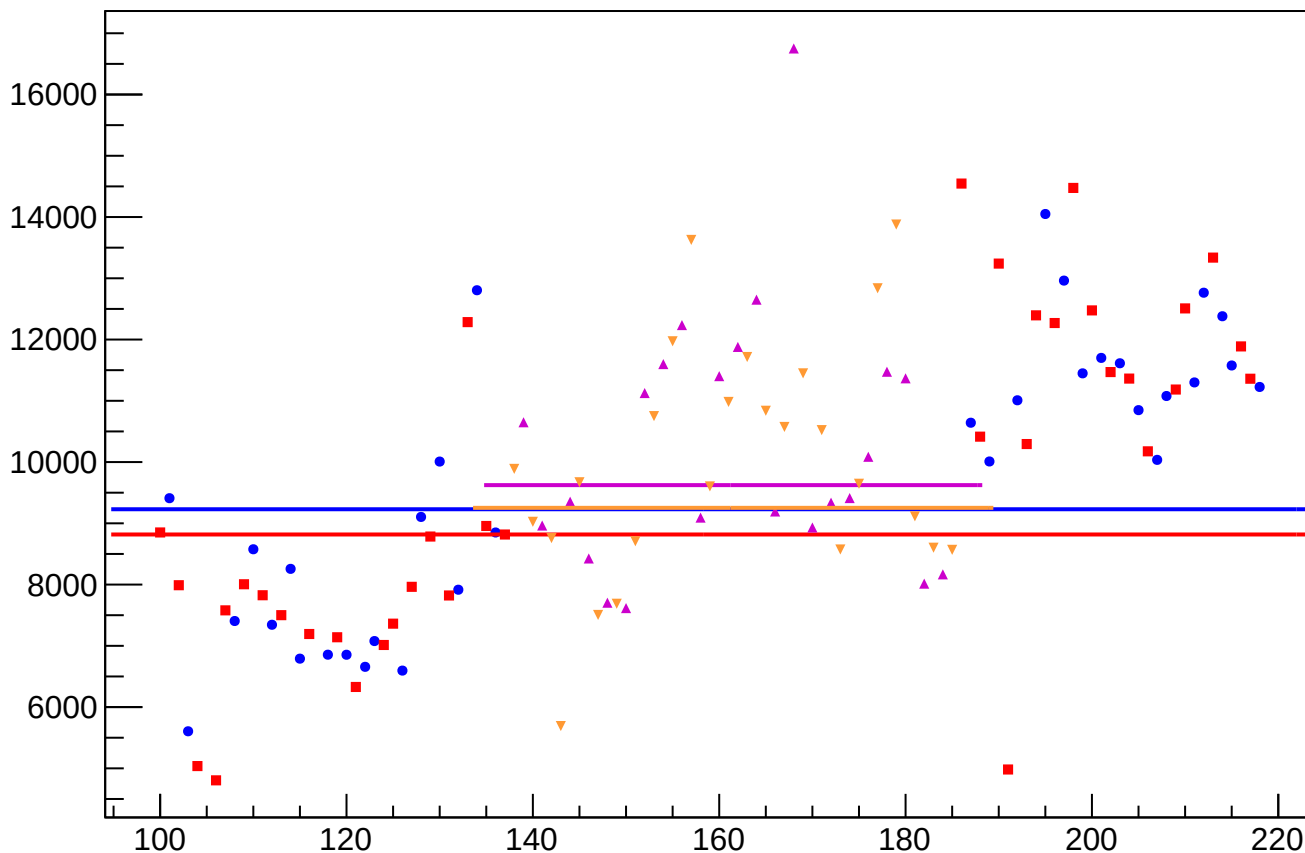
Right: 3217.626+/-1549.435 χ^2/NDF : 86.5/68

In: 2312.385+/-1619.375 χ^2/NDF : 52.0/55

Out: 3166.950+/-1540.870 χ^2/NDF : 76.7/60

All: 2760.883+/-1116.281 χ^2/NDF : 128.9/116

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 9229.693 $\pm$ 1.583 χ^2 /NDF: 2123144.3/32

Left Out: 9252.712 $\pm$ 1.565 χ^2 /NDF: 1597668.9/24

Right Out: 8817.744 $\pm$ 1.517 χ^2 /NDF: 3047838.9/35

Left In: 9623.485 $\pm$ 1.658 χ^2 /NDF: 1069924.0/22

Left: 9427.467 $\pm$ 1.138 χ^2 /NDF: 2694036.4/47

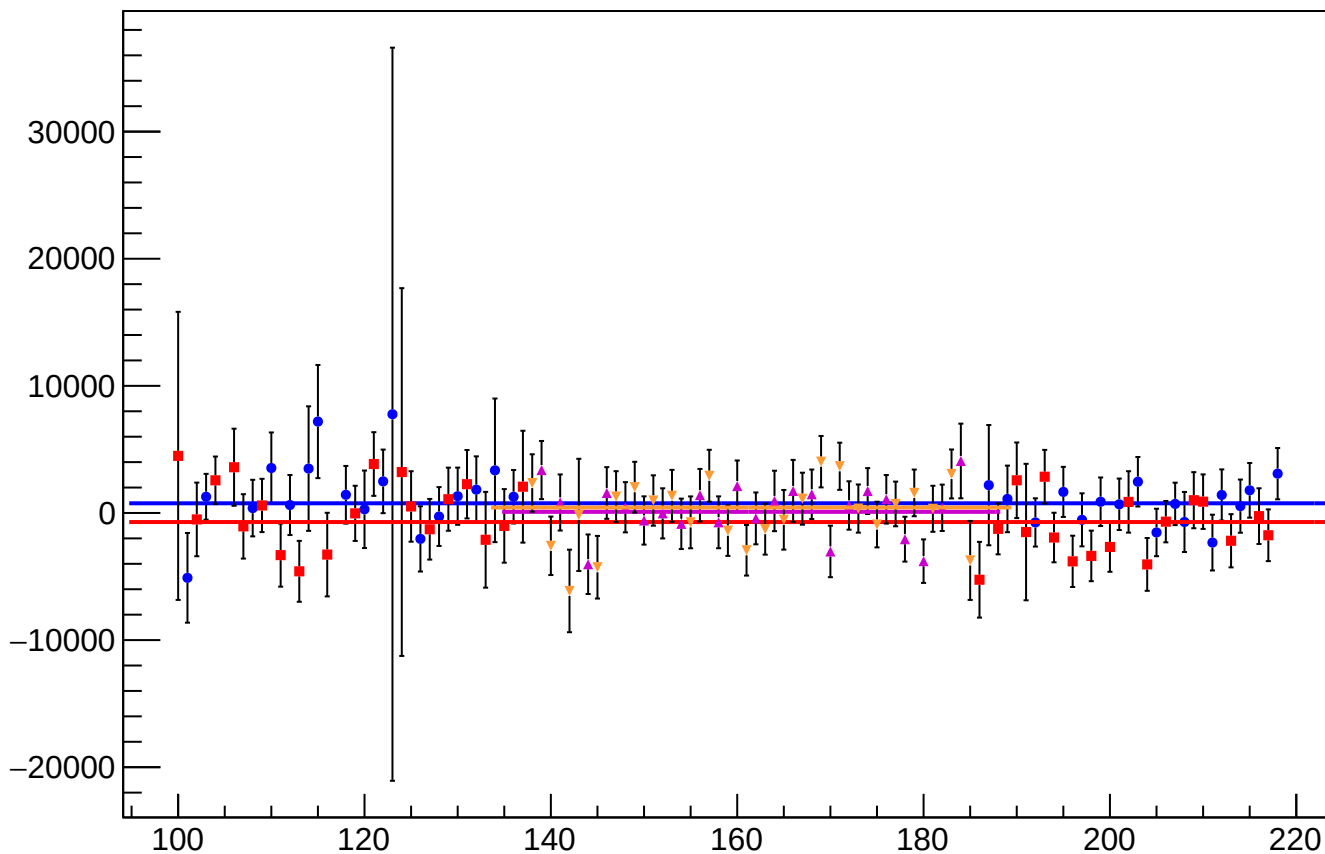
Right: 9014.944 $\pm$ 1.096 χ^2 /NDF: 5206266.4/68

In: 9417.555 $\pm$ 1.145 χ^2 /NDF: 3222573.8/55

Out: 9028.460 $\pm$ 1.090 χ^2 /NDF: 4685316.1/60

All: 9213.340 $\pm$ 0.789 χ^2 /NDF: 7968491.7/11

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 761.540 ± 404.887 $\chi^2/\text{NDF}: 16.4/32$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -713.603 ± 401.685 $\chi^2/\text{NDF}: 33.1/35$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

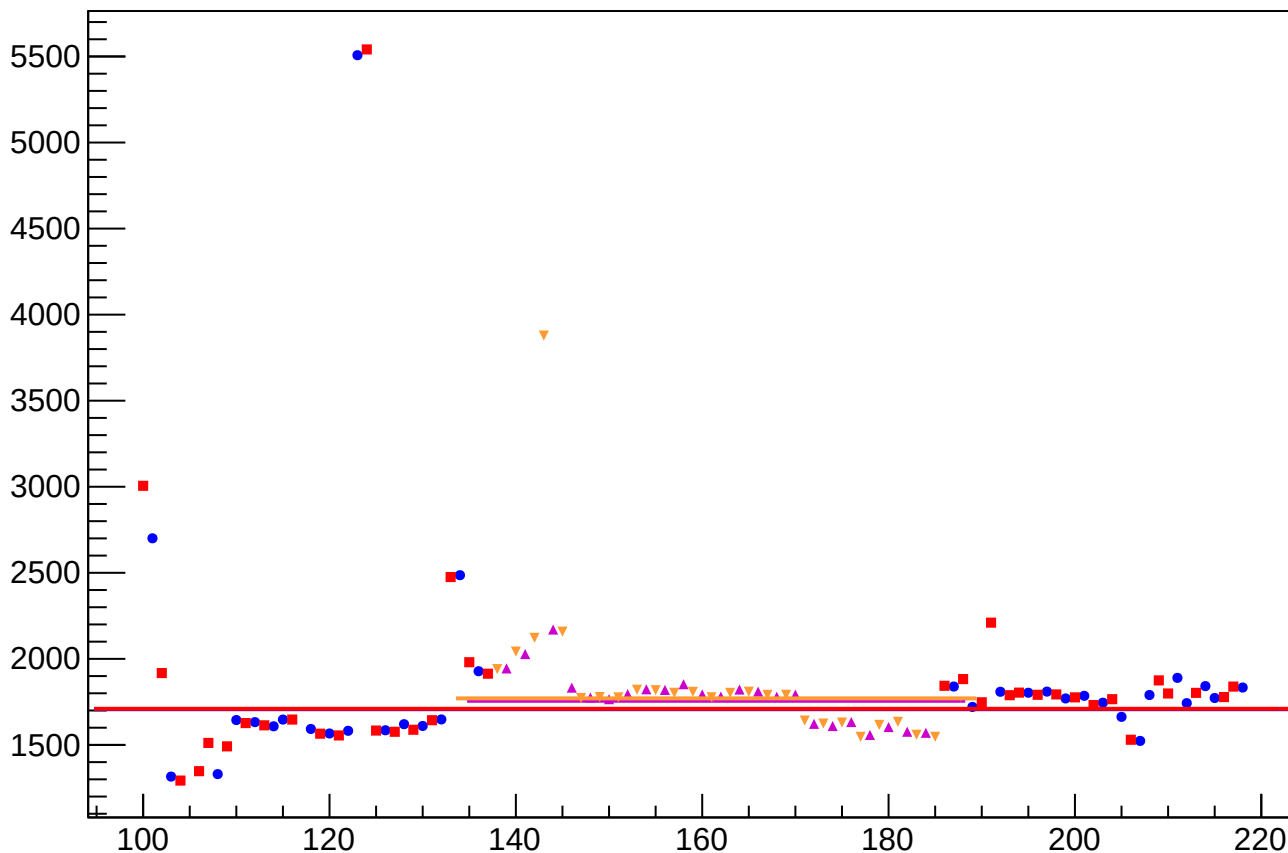
Right: 18.111 ± 285.160 $\chi^2/\text{NDF}: 56.2/68$

In: 438.848 ± 292.147 $\chi^2/\text{NDF}: 38.7/55$

Out: -162.602 ± 289.089 $\chi^2/\text{NDF}: 65.7/60$

All: 134.959 ± 205.489 $\chi^2/\text{NDF}: 106.6/116$

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1707.658 $\pm$ 0.286 χ^2 /NDF: 518918.5/32

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1709.798 $\pm$ 0.284 χ^2 /NDF: 589854.9/35

Left In: 1756.623 $\pm$ 0.298 χ^2 /NDF: 223077.6/22

Left: 1763.595 $\pm$ 0.210 χ^2 /NDF: 923692.1/47

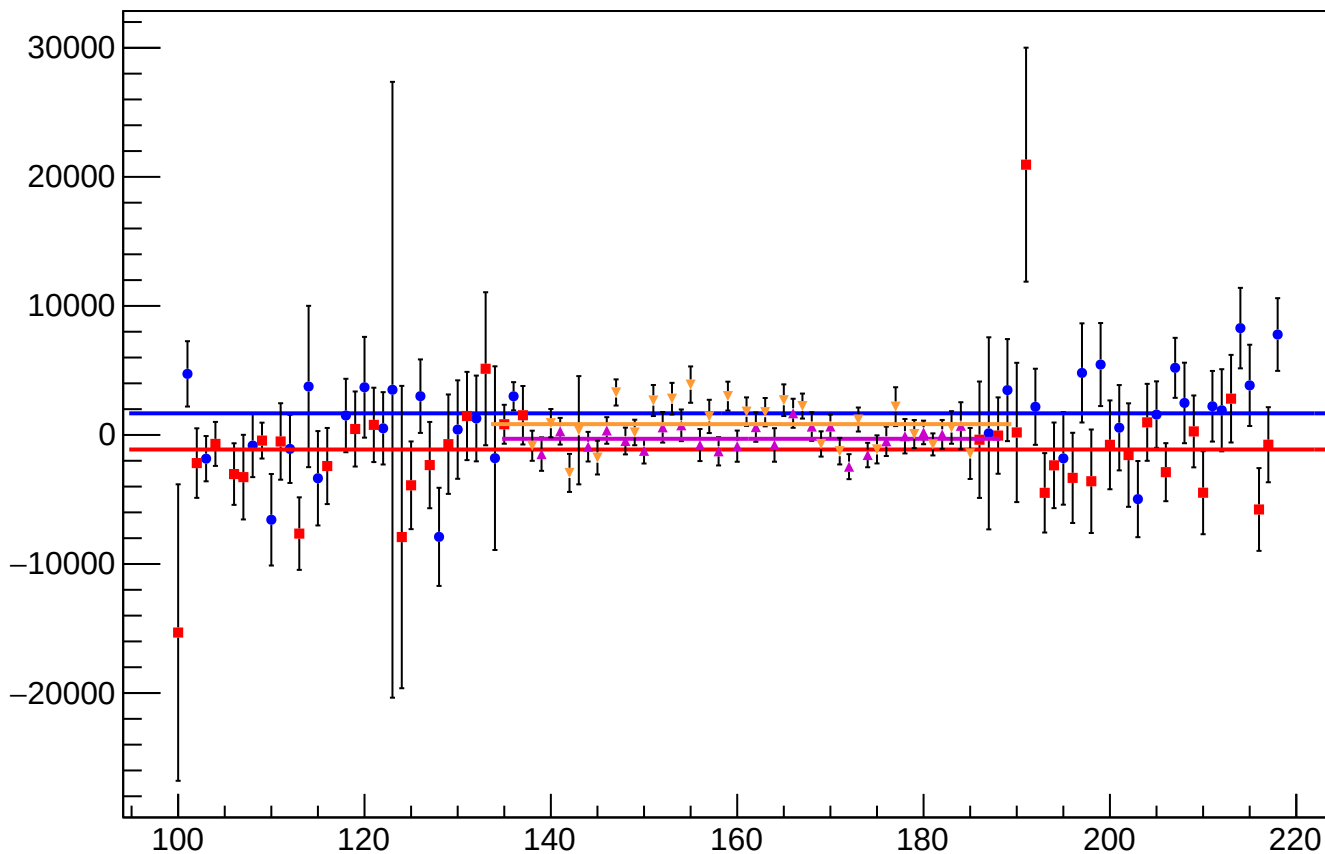
Right: 1708.737 $\pm$ 0.202 χ^2 /NDF: 1108801.6/68

In: 1731.130 $\pm$ 0.207 χ^2 /NDF: 756017.6/55

Out: 1739.003 $\pm$ 0.204 χ^2 /NDF: 1311324.1/60

All: 1735.108 $\pm$ 0.145 χ^2 /NDF: 2068075.6/11

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1675.442 $\pm$ 491.311 χ^2 /NDF: 44.4/32

Left Out: 839.344 $\pm$ 230.465 χ^2 /NDF: 54.4/24

Right Out: -1126.935 $\pm$ 476.561 χ^2 /NDF: 29.5/35

Left In: -298.801 $\pm$ 231.400 χ^2 /NDF: 18.3/22

Left: 272.574 $\pm$ 163.293 χ^2 /NDF: 84.9/47

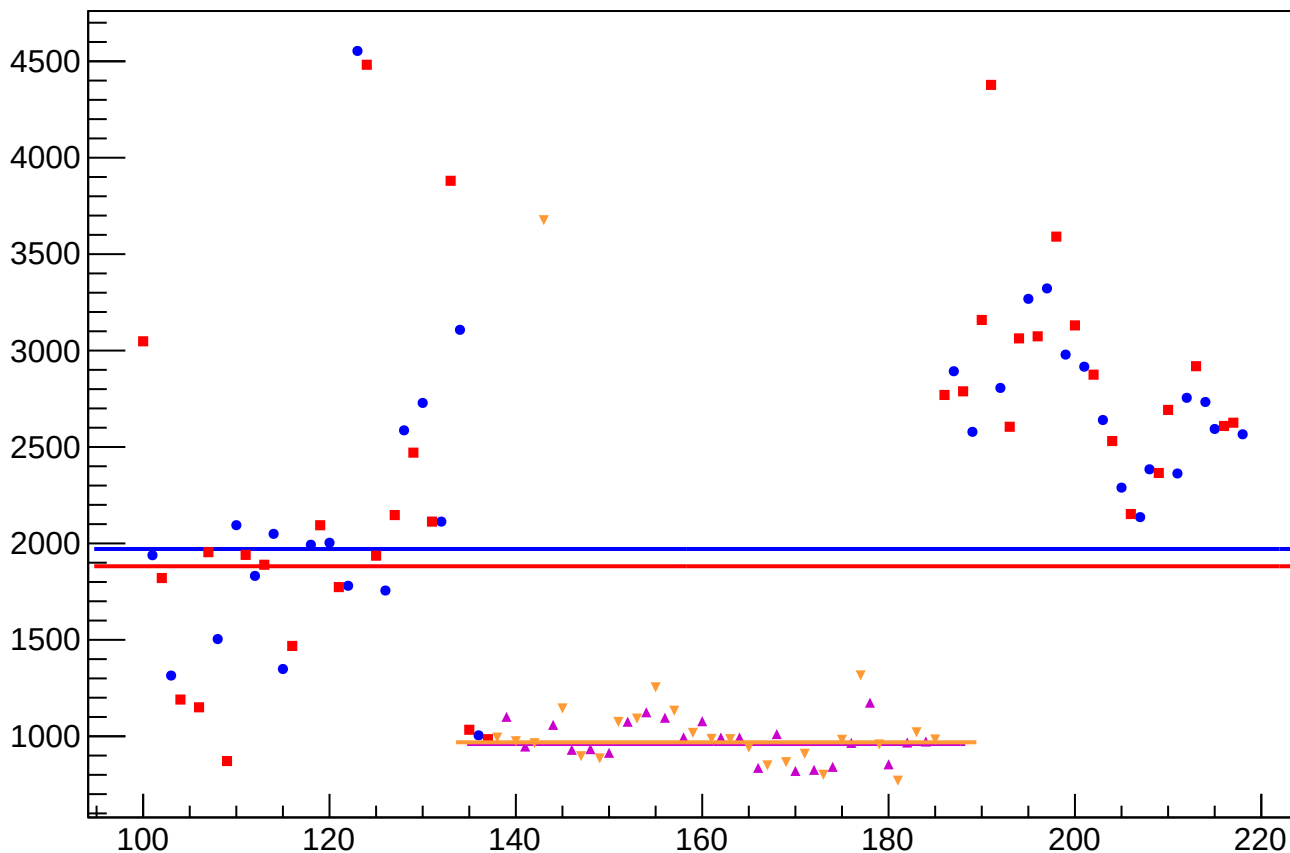
Right: 231.555 $\pm$ 342.075 χ^2 /NDF: 90.6/68

In: 59.628 $\pm$ 209.343 χ^2 /NDF: 75.9/55

Out: 466.652 $\pm$ 207.477 χ^2 /NDF: 97.7/60

All: 264.962 $\pm$ 147.364 χ^2 /NDF: 175.5/116

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1971.120+/-0.347 χ^2/NDF : 3945686.1/32

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1881.587+/-0.337 χ^2/NDF : 5595403.0/35

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

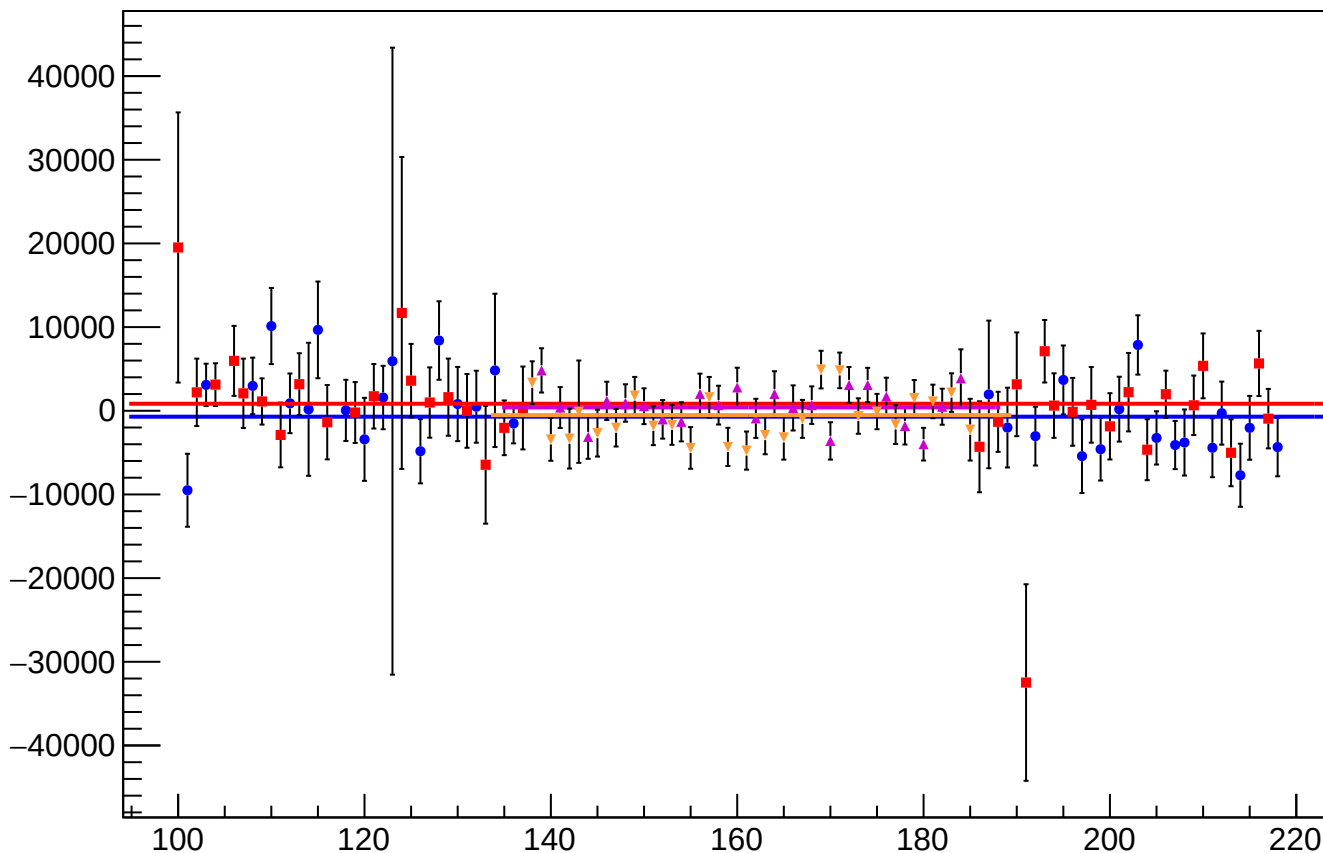
Right: 1924.989+/-0.242 χ^2/NDF : 9575309.7/68

In: 1143.412+/-0.148 χ^2/NDF : 11252437.0/55

Out: 1141.740+/-0.147 χ^2/NDF : 12936769.9/60

All: 1142.568+/-0.104 χ^2/NDF : 24189271.2/117

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -707.991 ± 676.819 $\chi^2/\text{NDF}: 41.2/32$

Left Out: -517.719 ± 481.486 $\chi^2/\text{NDF}: 34.0/24$

Right Out: 840.634 ± 671.029 $\chi^2/\text{NDF}: 28.8/35$

Left In: 397.398 ± 485.048 $\chi^2/\text{NDF}: 21.8/22$

Left: -63.533 ± 341.714 $\chi^2/\text{NDF}: 57.7/47$

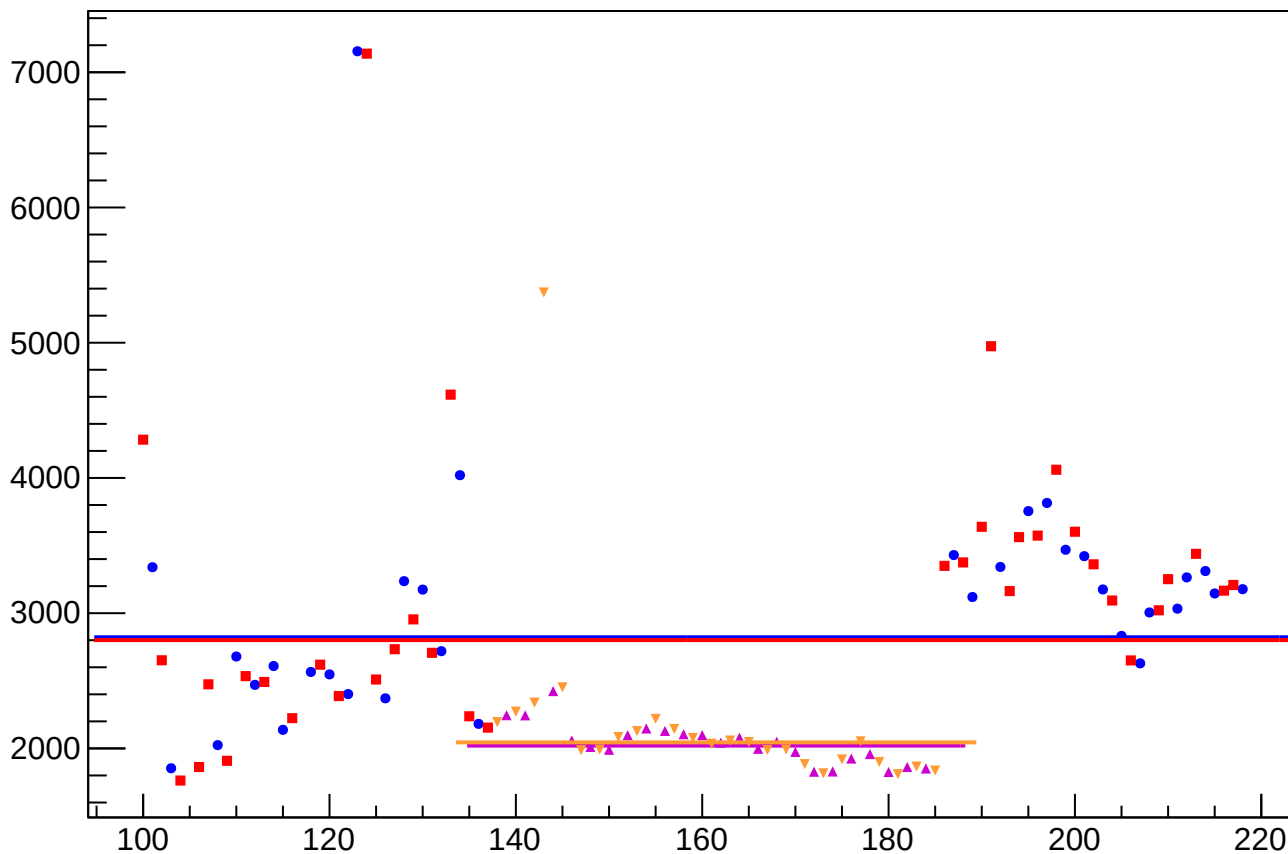
Right: 72.975 ± 476.523 $\chi^2/\text{NDF}: 72.7/68$

In: 22.315 ± 394.257 $\chi^2/\text{NDF}: 64.8/55$

Out: -56.054 ± 391.199 $\chi^2/\text{NDF}: 65.6/60$

All: -17.175 ± 277.694 $\chi^2/\text{NDF}: 130.4/116$

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2821.880+/-0.479 χ^2/NDF : 1297023.3/32

Left Out: 2044.722+/-0.340 χ^2/NDF : 788703.5/24

Right Out: 2800.796+/-0.474 χ^2/NDF : 1865700.0/35

Left In: 2020.802+/-0.343 χ^2/NDF : 173502.0/22

Left: 2032.850+/-0.242 χ^2/NDF : 964655.5/47

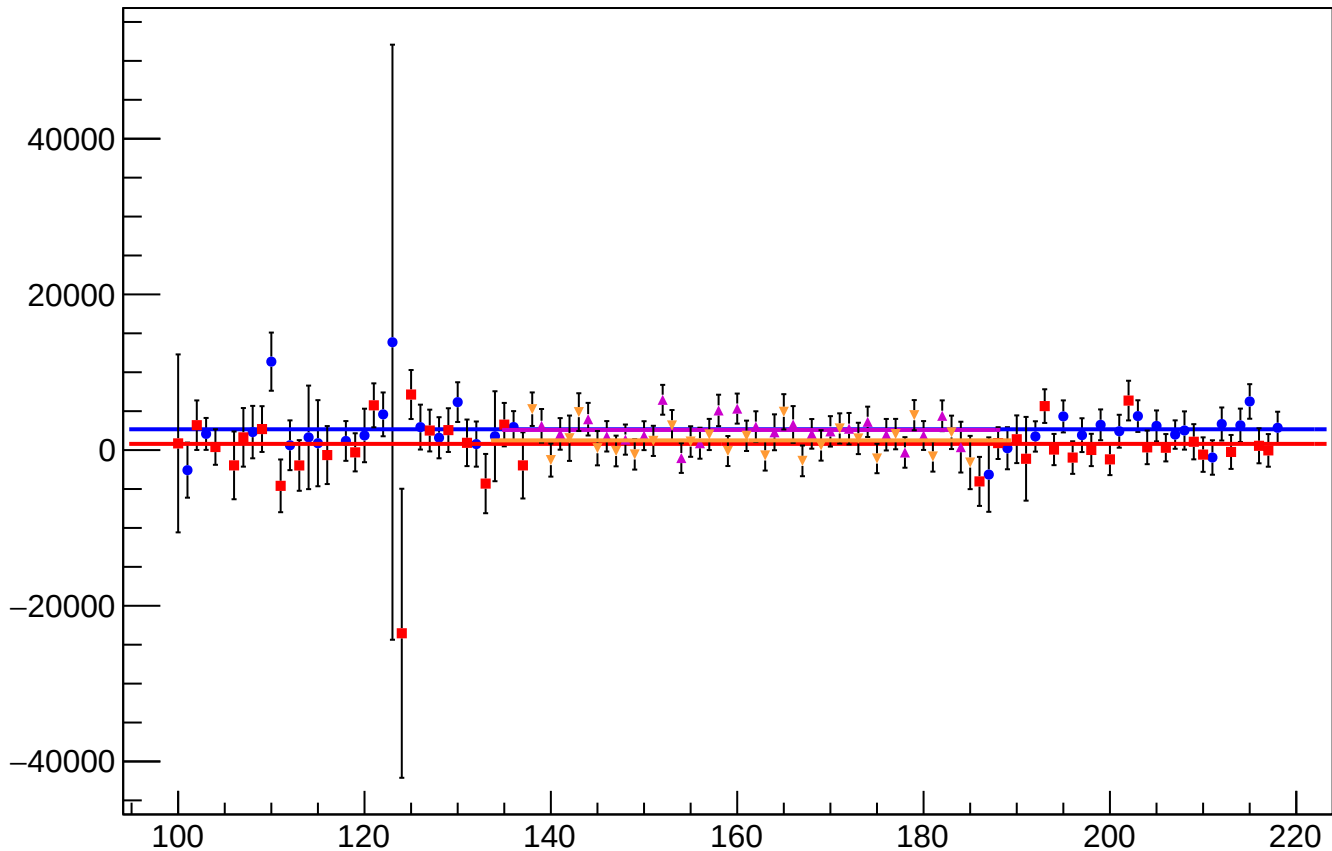
Right: 2811.247+/-0.337 χ^2/NDF : 3163702.1/68

In: 2292.626+/-0.279 χ^2/NDF : 3321603.7/55

Out: 2301.691+/-0.277 χ^2/NDF : 4330531.3/60

All: 2297.194+/-0.196 χ^2/NDF : 7652667.8/117

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2673.753+/-437.934 χ^2/NDF : 21.4/32

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 797.216+/-438.752 χ^2/NDF : 32.9/35

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

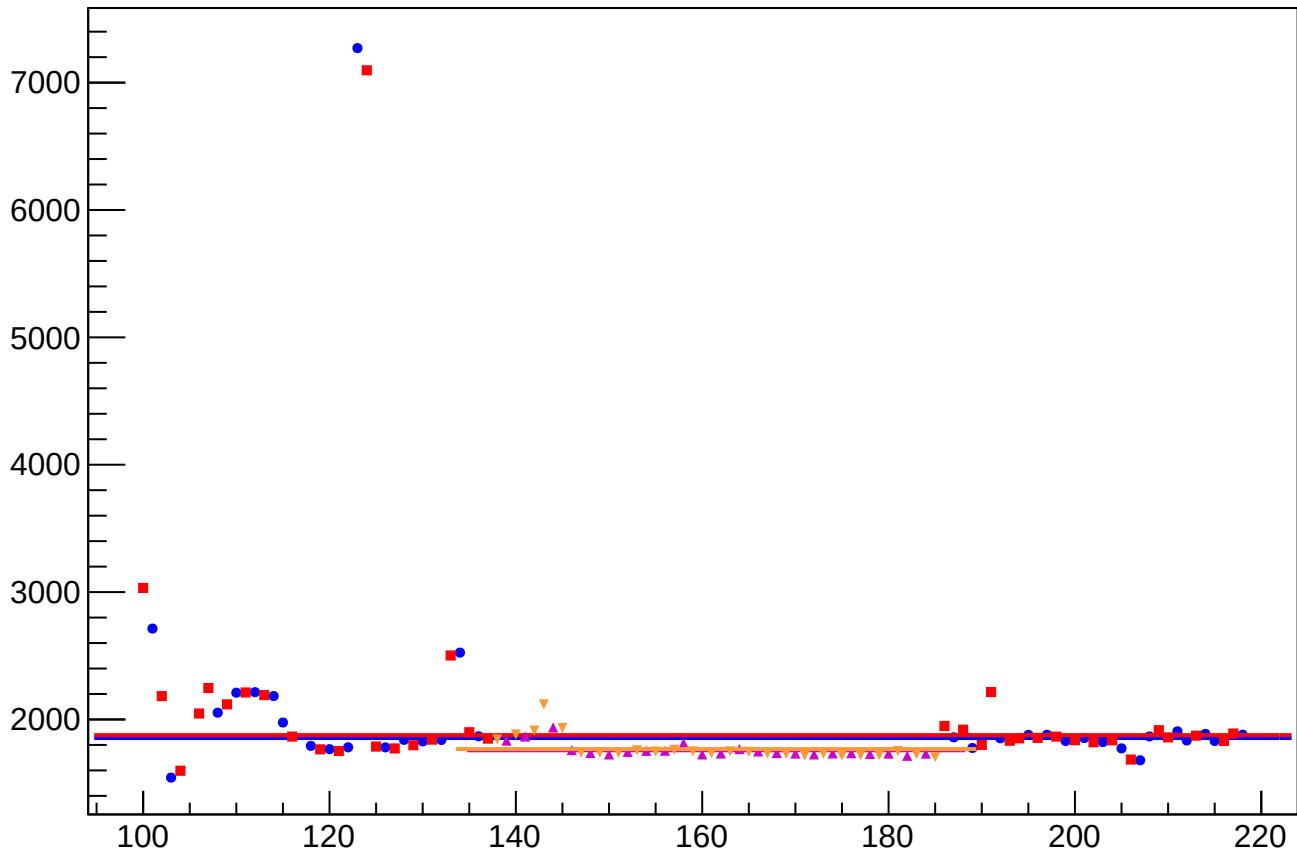
Right: 1737.236+/-309.955 χ^2/NDF : 63.5/68

In: 2628.687+/-303.693 χ^2/NDF : 38.9/55

Out: 1037.522+/-300.528 χ^2/NDF : 56.5/60

All: 1824.771+/-213.616 χ^2/NDF : 109.3/116

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1854.086 $\pm$ 0.310 χ^2 /NDF: 319985.6/32

Left Out: 1767.517 $\pm$ 0.292 χ^2 /NDF: 77674.7/24

Right Out: 1877.028 $\pm$ 0.310 χ^2 /NDF: 410722.2/35

Left In: 1758.076 $\pm$ 0.298 χ^2 /NDF: 29806.0/22

Left: 1762.899 $\pm$ 0.208 χ^2 /NDF: 107993.2/47

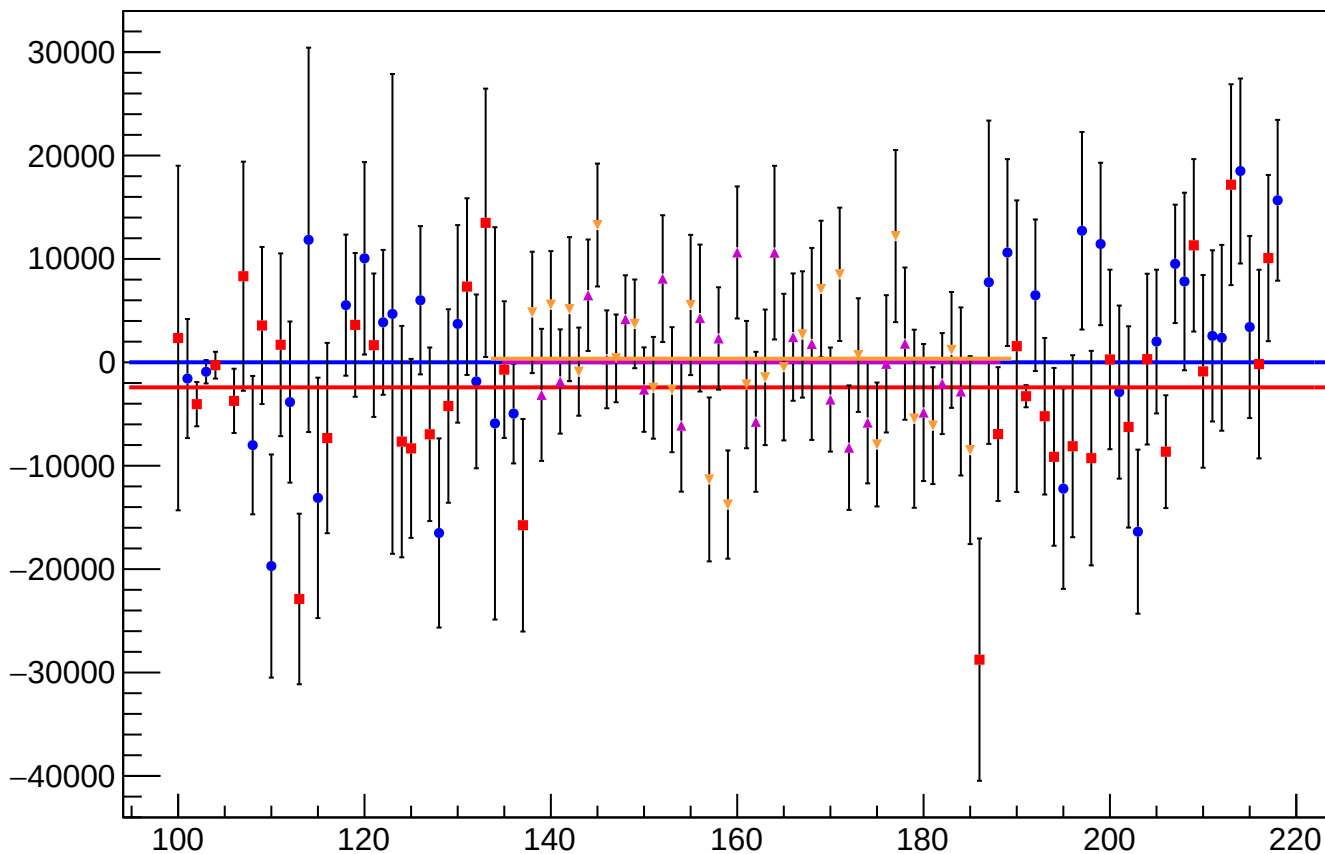
Right: 1865.542 $\pm$ 0.219 χ^2 /NDF: 733448.6/68

In: 1804.247 $\pm$ 0.215 χ^2 /NDF: 399691.0/55

Out: 1818.926 $\pm$ 0.212 χ^2 /NDF: 554575.4/60

All: 1811.665 $\pm$ 0.151 χ^2 /NDF: 956627.9/116

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: 4.046 ± 888.484 χ^2/NDF : 39.5/32

Left Out: 351.227 ± 1170.051 χ^2/NDF : 27.8/24

Right Out: -2419.388 ± 670.310 χ^2/NDF : 37.3/35

Left In: 40.618 ± 1207.491 χ^2/NDF : 16.0/22

Left: 200.813 ± 840.276 χ^2/NDF : 43.9/47

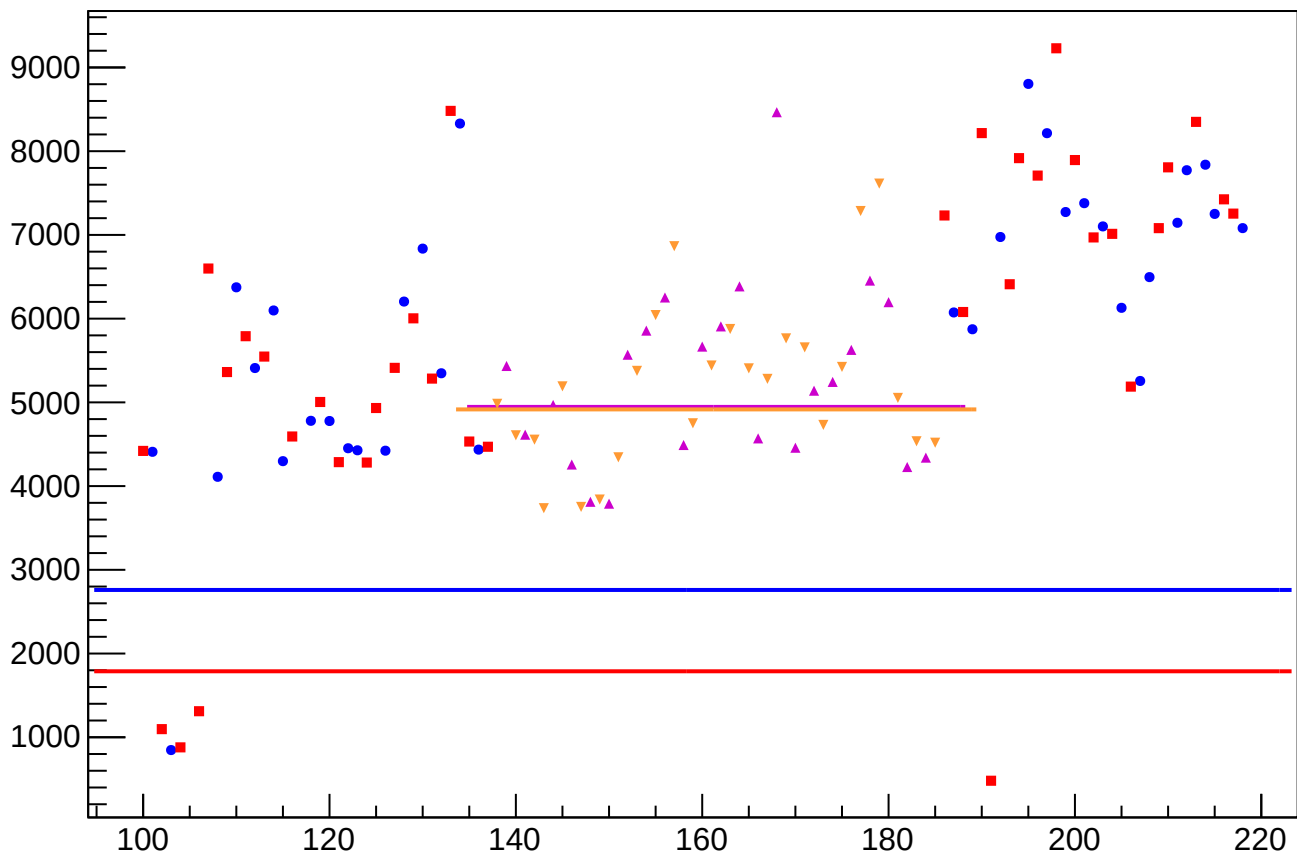
Right: -1540.347 ± 535.105 χ^2/NDF : 81.5/68

In: 16.892 ± 715.632 χ^2/NDF : 55.5/55

Out: -1734.762 ± 581.626 χ^2/NDF : 69.3/60

All: -1037.970 ± 451.354 χ^2/NDF : 128.5/116

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2759.428+/-0.628

χ^2/NDF : 16779310.0/32

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 2140.370+/-0.378

χ^2/NDF : 40383954.9/68

Right Out: 1788.014+/-0.474

χ^2/NDF : 22081063.4/35

In: 3527.388+/-0.506

χ^2/NDF : 22221593.5/55

Out: 2560.914+/-0.411

χ^2/NDF : 34028433.9/60

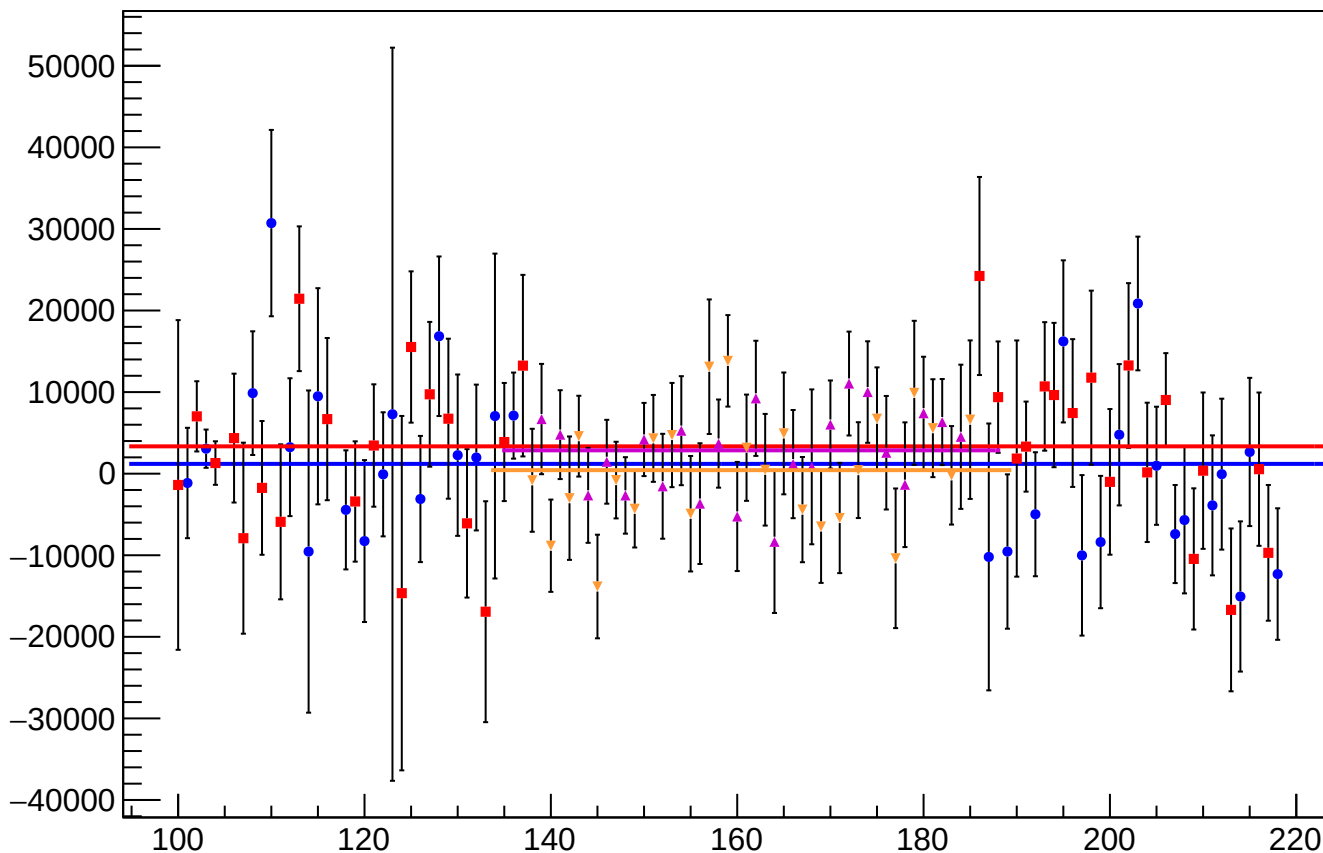
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2945.368+/-0.319

χ^2/NDF : 58446768.6/100

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 1199.896 $\pm$ 1284.668 χ^2/NDF : 37.6/32

Left Out: 430.860 $\pm$ 1258.273 χ^2/NDF : 27.1/24

Right Out: 3348.706 $\pm$ 1261.022 χ^2/NDF : 33.4/35

Left In: 2860.252 $\pm$ 1292.328 χ^2/NDF : 12.9/22

Left: 1613.125 $\pm$ 901.533 χ^2/NDF : 41.8/47

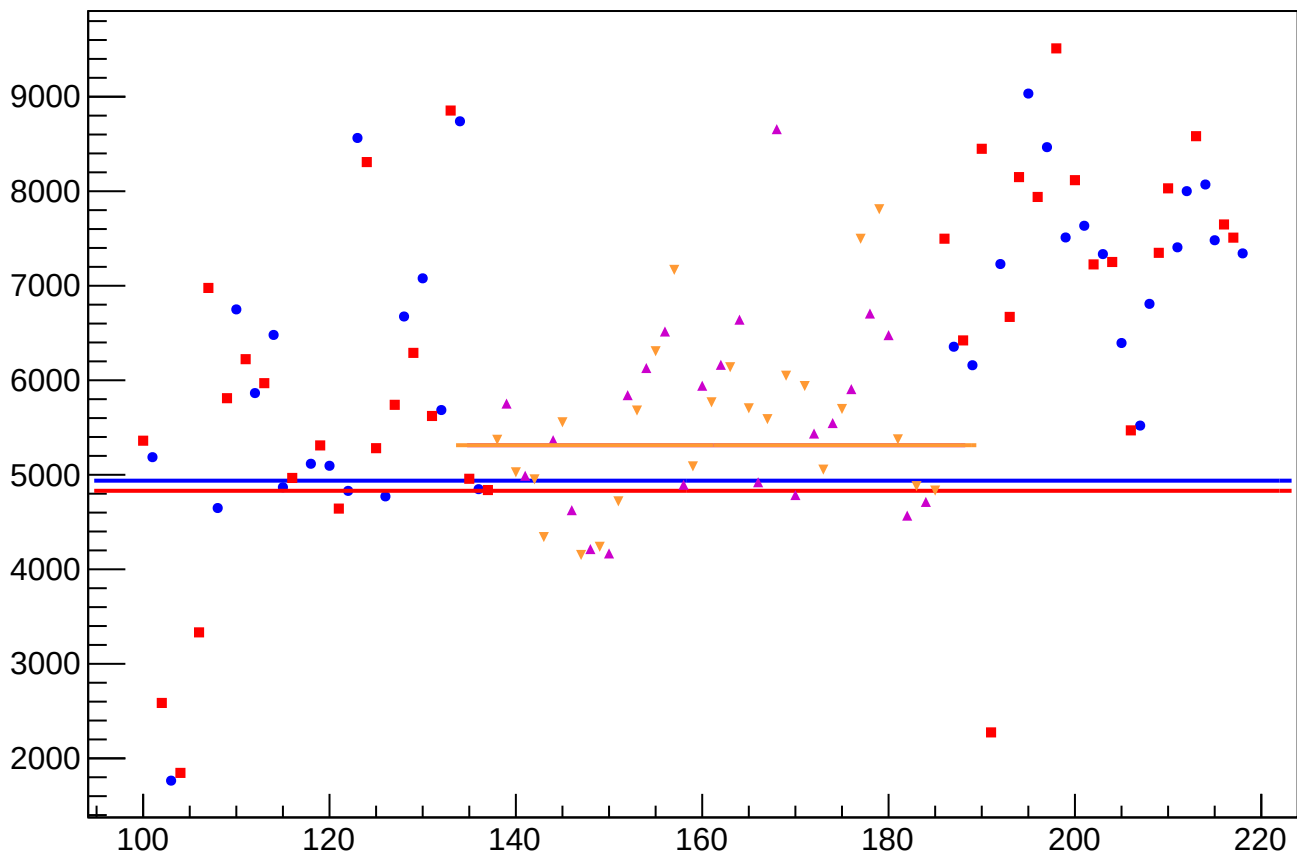
Right: 2294.258 $\pm$ 899.921 χ^2/NDF : 72.4/68

In: 2025.138 $\pm$ 911.094 χ^2/NDF : 51.3/55

Out: 1886.599 $\pm$ 890.704 χ^2/NDF : 63.2/60

All: 1954.301 $\pm$ 636.909 χ^2/NDF : 114.5/116

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4937.797+/-0.908 χ^2/NDF : 6547214.8/32

Left Out: 5313.008+/-0.890 χ^2/NDF : 894369.8/24

Right Out: 4830.651+/-0.888 χ^2/NDF : 7040555.6/35

Left In: 5312.861+/-0.914 χ^2/NDF : 957400.7/22

Left: 5312.937+/-0.637 χ^2/NDF : 1851770.5/47

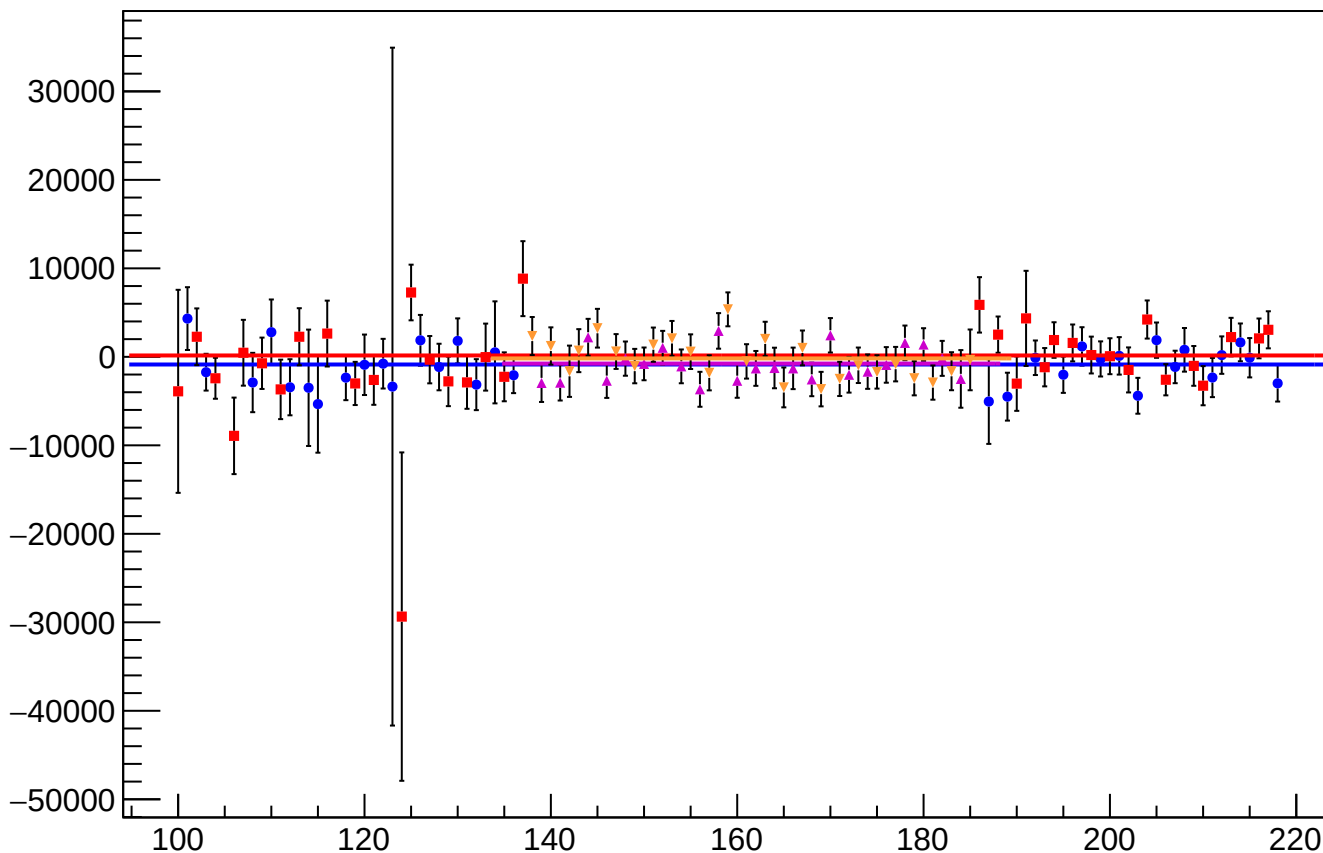
Right: 4883.009+/-0.635 χ^2/NDF : 13594884.4/68

In: 5124.214+/-0.644 χ^2/NDF : 7589345.8/55

Out: 5071.363+/-0.629 χ^2/NDF : 8082165.8/60

All: 5097.136+/-0.450 χ^2/NDF : 15674959.7/131

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -864.973+/-437.590 χ^2/NDF : 21.5/32

Left Out: -179.794+/-410.976 χ^2/NDF : 29.3/24

Right Out: 155.814+/-438.357 χ^2/NDF : 46.5/35

Left In: -759.753+/-419.905 χ^2/NDF : 20.3/22

Left: -463.542+/-293.710 χ^2/NDF : 50.5/47

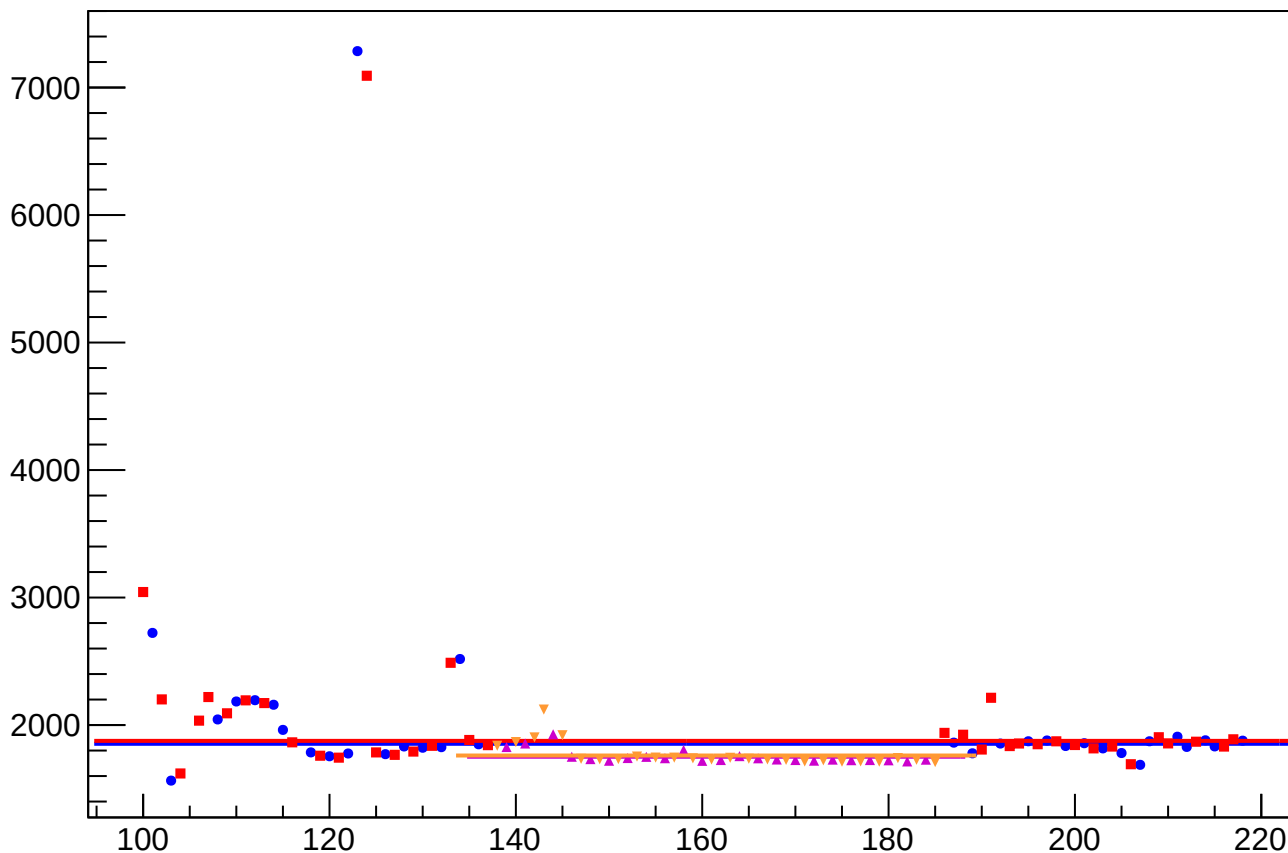
Right: -355.474+/-309.694 χ^2/NDF : 70.6/68

In: -810.194+/-302.977 χ^2/NDF : 41.8/55

Out: -22.798+/-299.817 χ^2/NDF : 76.0/60

All: -412.369+/-213.111 χ^2/NDF : 121.2/116

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1852.994 $\pm$ 0.309 χ^2 /NDF: 307378.6/32

Left Out: 1761.091 $\pm$ 0.291 χ^2 /NDF: 77468.5/24

Right Out: 1875.916 $\pm$ 0.310 χ^2 /NDF: 395733.7/35

Left In: 1751.418 $\pm$ 0.297 χ^2 /NDF: 28578.7/22

Left: 1756.358 $\pm$ 0.208 χ^2 /NDF: 106589.3/47

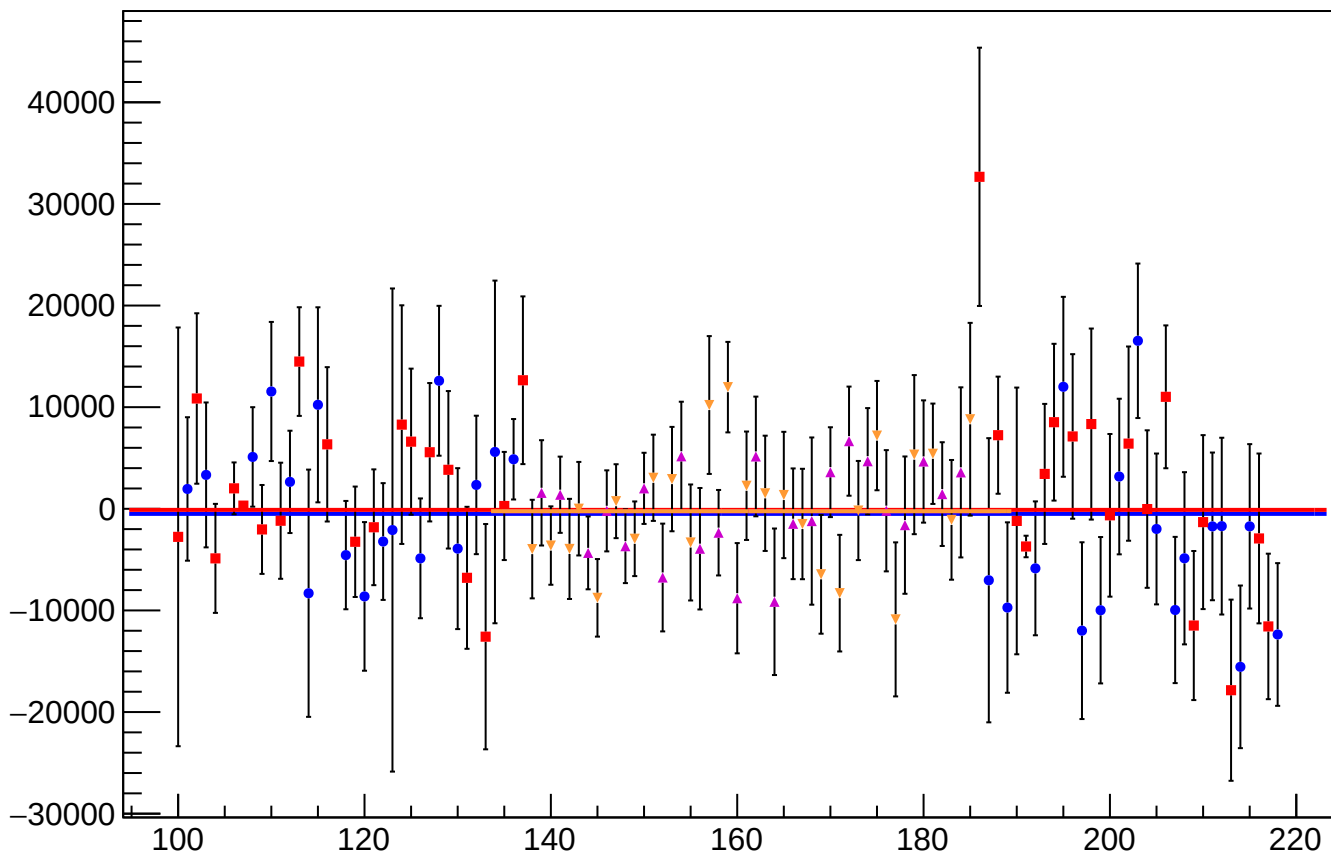
Right: 1864.441 $\pm$ 0.219 χ^2 /NDF: 705853.0/68

In: 1800.112 $\pm$ 0.214 χ^2 /NDF: 392061.2/55

Out: 1814.837 $\pm$ 0.212 χ^2 /NDF: 546279.3/60

All: 1807.553 $\pm$ 0.151 χ^2 /NDF: 940728.1/116

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: -499.892 ± 1235.935 χ^2/NDF : 36.3/32

Left Out: -235.806 ± 1005.144 χ^2/NDF : 28.9/24

Right Out: -105.069 ± 408.393 χ^2/NDF : 54.7/35

Left In: -239.224 ± 1028.883 χ^2/NDF : 15.3/22

Left: -237.475 ± 718.990 χ^2/NDF : 44.2/47

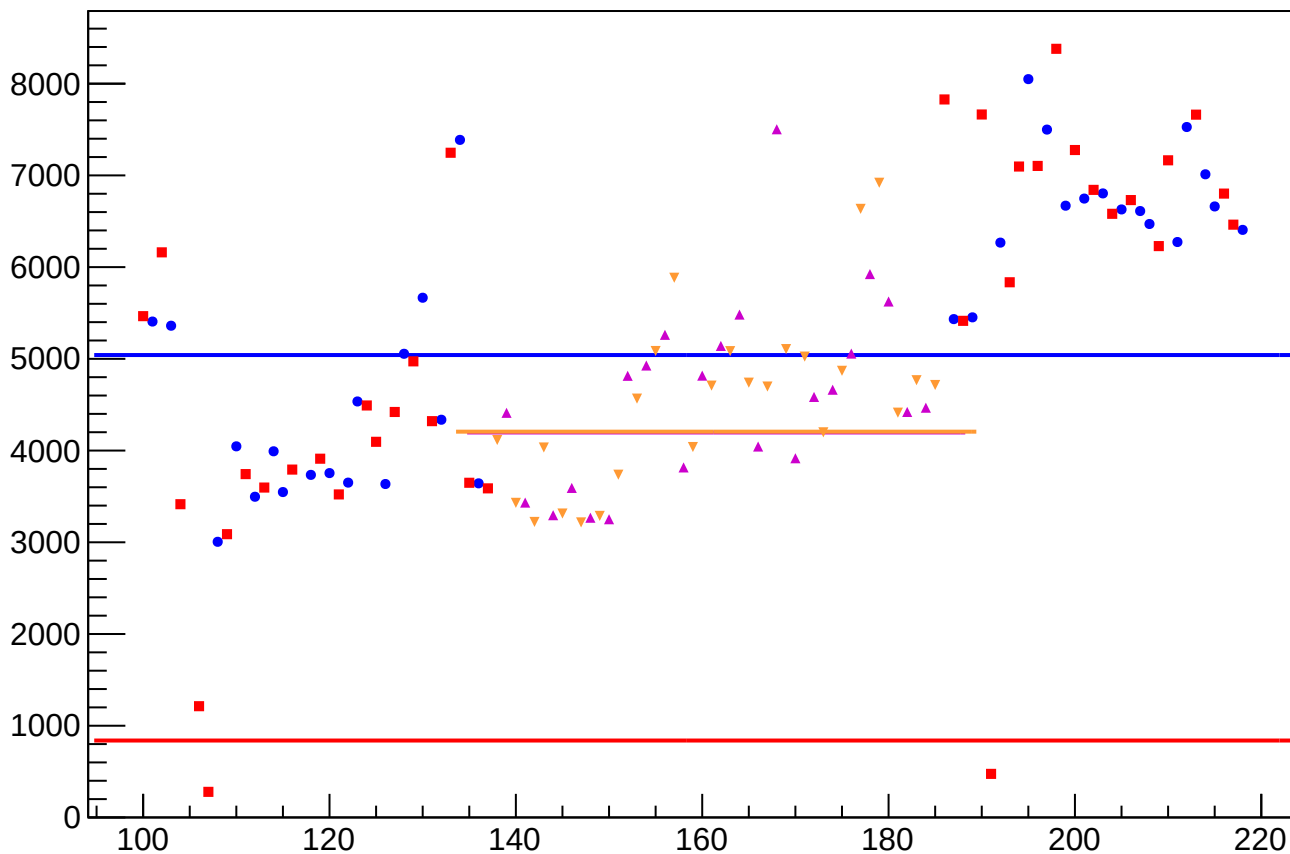
Right: -143.934 ± 387.772 χ^2/NDF : 91.1/68

In: -345.925 ± 790.744 χ^2/NDF : 51.6/55

Out: -123.593 ± 378.356 χ^2/NDF : 83.6/60

All: -165.012 ± 341.298 χ^2/NDF : 135.3/116

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 5041.481+/-0.874

χ^2/NDF : 2902759.2/32

Left Out: 4206.076+/-0.711

χ^2/NDF : 1442269.3/24

Right Out: 838.727+/-0.289

χ^2/NDF : 28426589.6/35

Left In: 4197.267+/-0.728

χ^2/NDF : 1471012.9/22

Left: 4201.775+/-0.508

χ^2/NDF : 2913357.2/47

Right: 1252.437+/-0.274

χ^2/NDF : 52179167.5/68

In: 4542.835+/-0.559

χ^2/NDF : 4924939.2/55

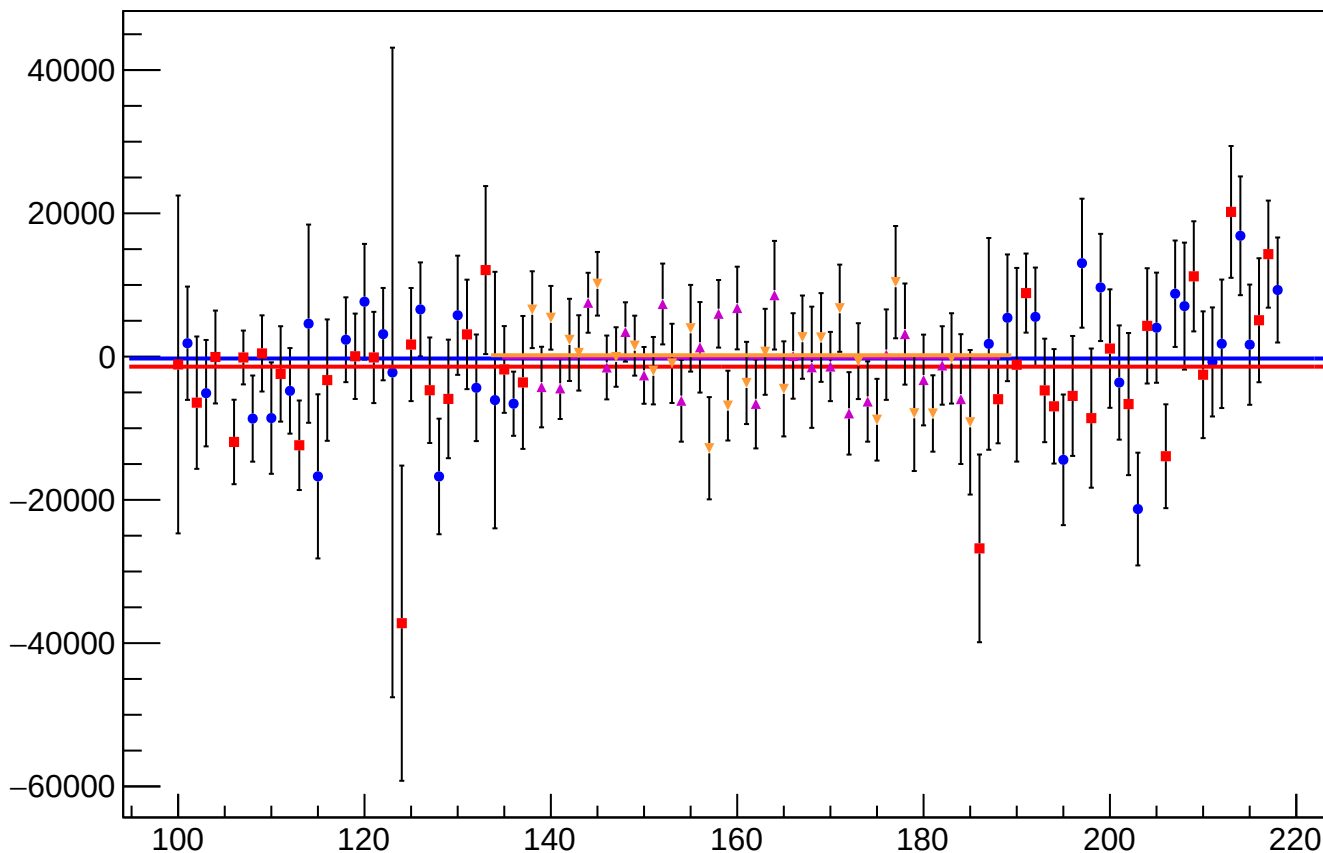
Out: 1315.853+/-0.268

χ^2/NDF : 49134934.9/60

All: 1917.017+/-0.241

χ^2/NDF : 81162988.1/1

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -266.028+/-1349.597 χ^2/NDF : 39.3/32

Left Out: 189.721+/-1106.851 χ^2/NDF : 25.0/24

Right Out: -1404.784+/-1227.394 χ^2/NDF : 38.3/35

Left In: -137.477+/-1129.656 χ^2/NDF : 18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

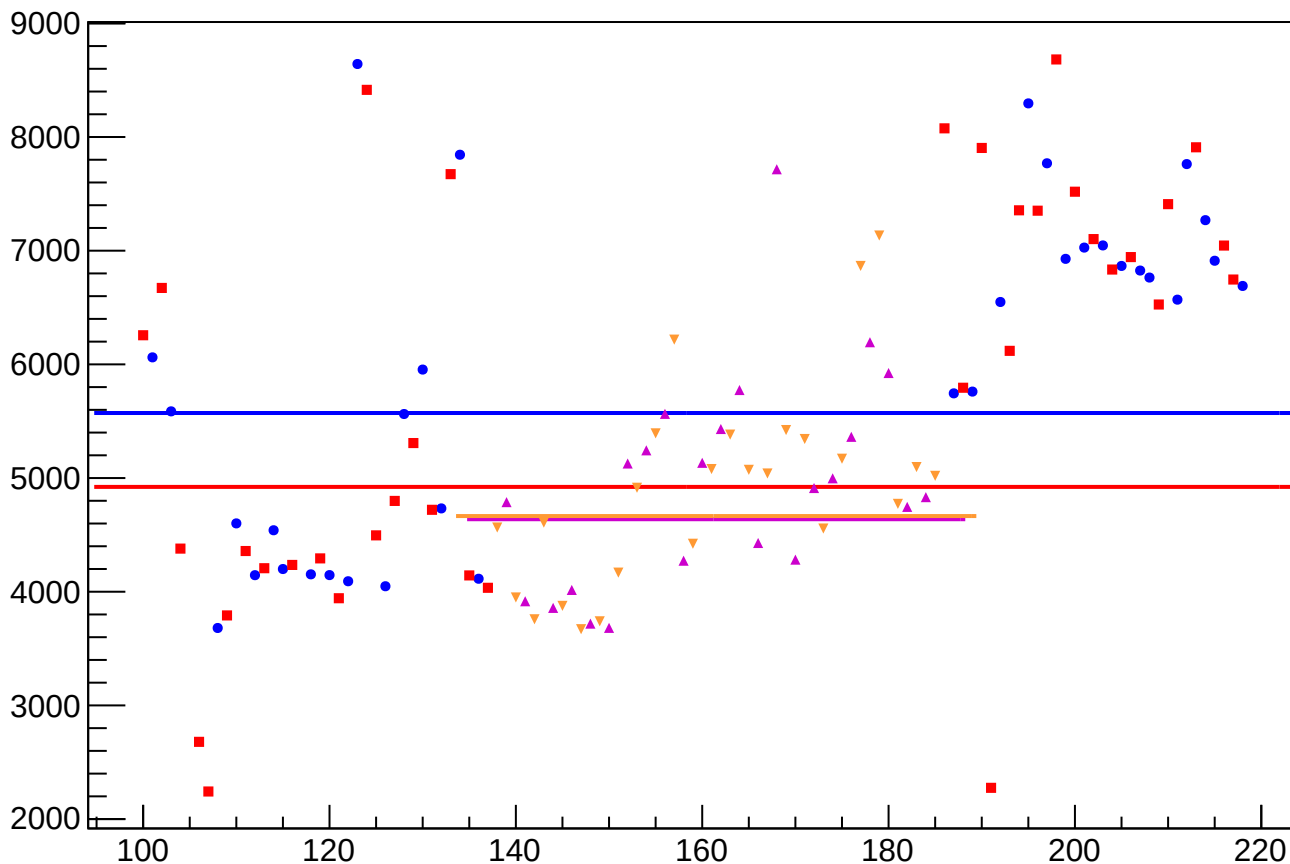
Right: -889.286+/-908.035 χ^2/NDF : 78.0/68

In: -190.438+/-866.248 χ^2/NDF : 57.9/55

Out: -525.409+/-821.984 χ^2/NDF : 64.2/60

All: -366.700+/-596.265 χ^2/NDF : 122.2/116

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5572.158+/-0.954 χ^2/NDF : 2089831.7/32

Left Out: 4665.620+/-0.783 χ^2/NDF : 1017235.0/24

Right Out: 4922.172+/-0.865 χ^2/NDF : 4567874.6/35

Left In: 4637.777+/-0.799 χ^2/NDF : 1065217.2/22

Left: 4651.983+/-0.559 χ^2/NDF : 2083072.1/47

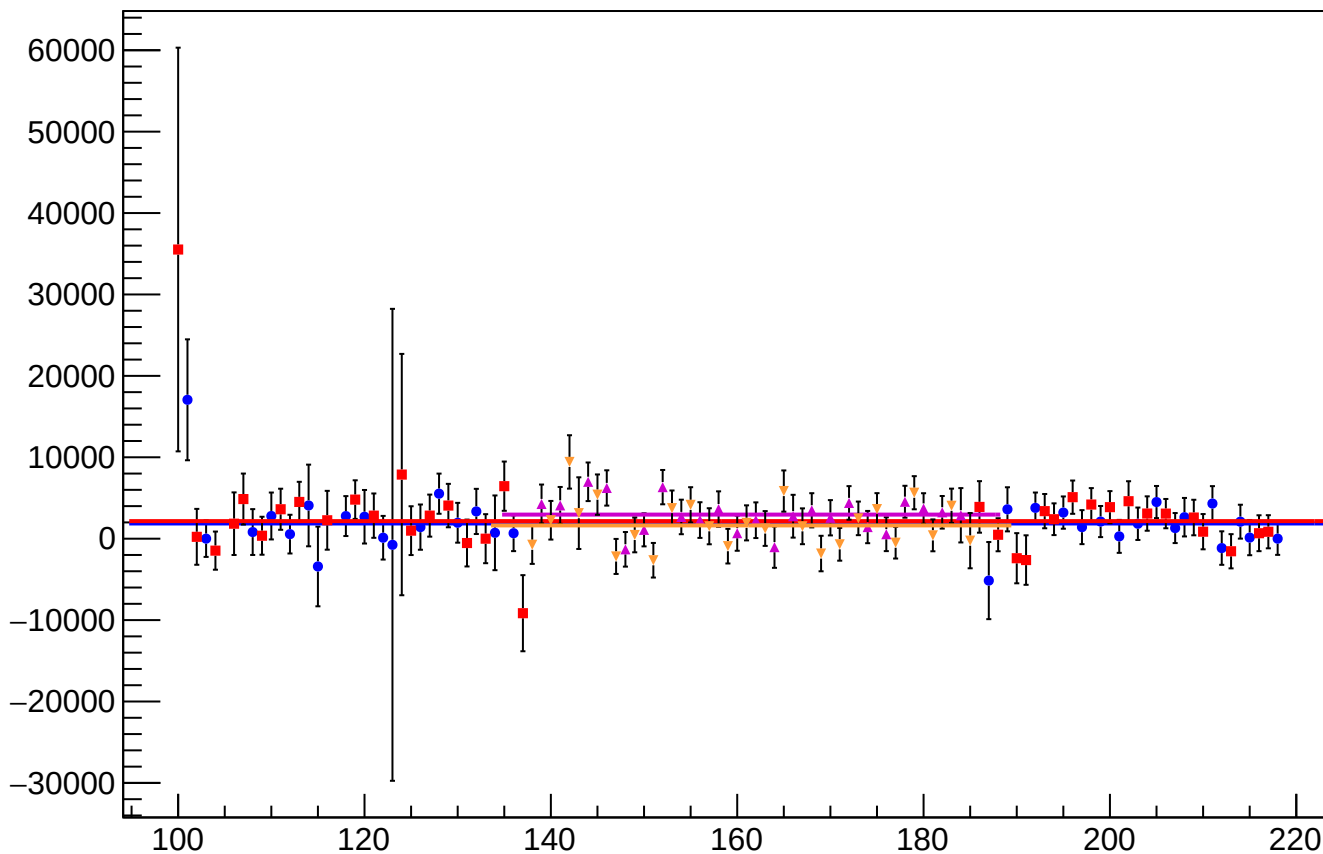
Right: 5215.155+/-0.641 χ^2/NDF : 6912505.8/68

In: 5022.724+/-0.613 χ^2/NDF : 3718766.5/55

Out: 4781.178+/-0.580 χ^2/NDF : 5633507.7/60

All: 4895.411+/-0.421 χ^2/NDF : 9434237.0/111

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1868.814 $\pm$ 424.011 χ^2 /NDF: 22.0/32

Left Out: 1630.035 $\pm$ 447.063 χ^2 /NDF:35.4/24

Right Out: 2158.414 $\pm$ 418.541 χ^2 /NDF: 34.2/35

Left In: 2958.620 $\pm$ 453.688 χ^2 /NDF:20.4/22

Left: 2284.557 $\pm$ 318.438 χ^2 /NDF: 60.2/47

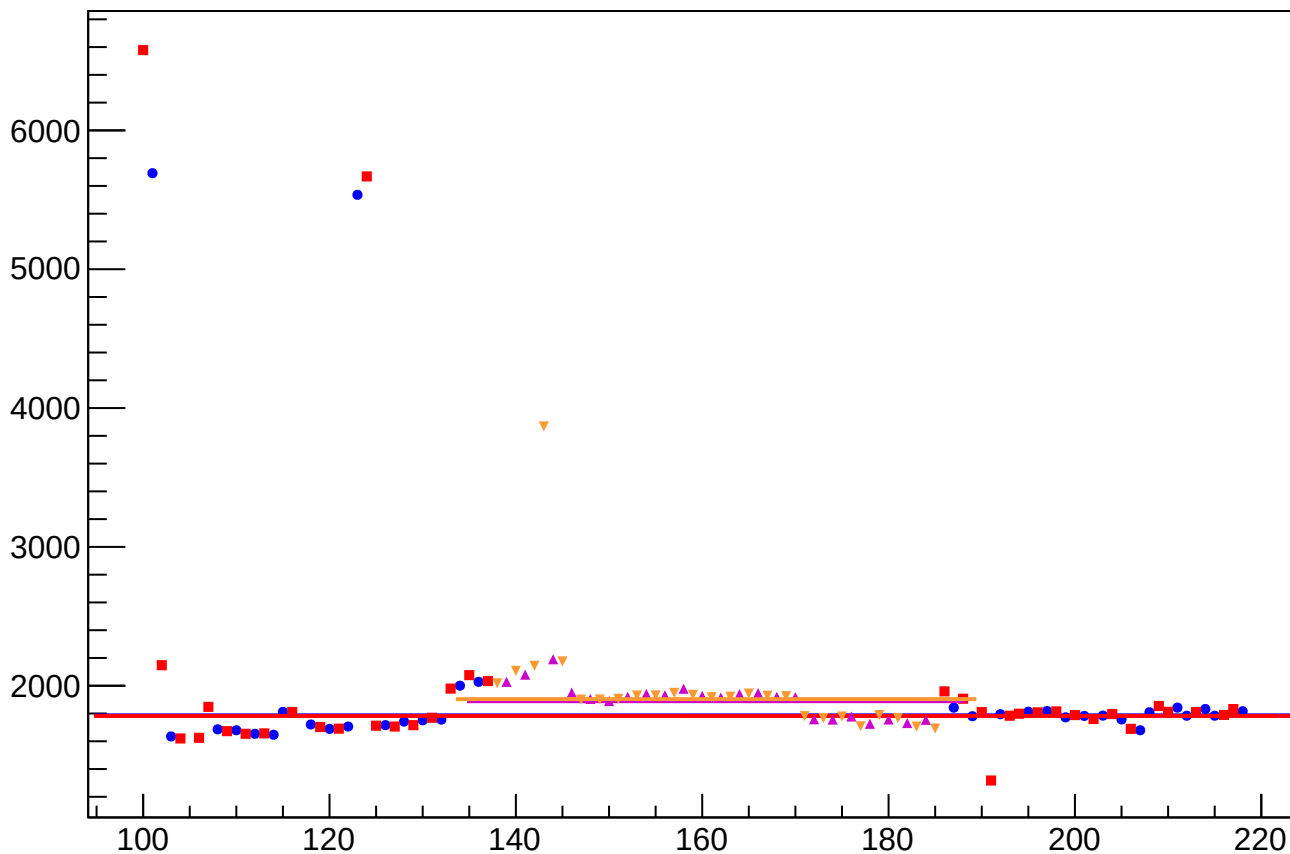
Right: 2015.495 $\pm$ 297.868 χ^2 /NDF: 56.5/68

In: 2376.911 $\pm$ 309.782 χ^2 /NDF:45.5/55

Out: 1911.616 $\pm$ 305.539 χ^2 /NDF:70.4/60

All: 2141.056 $\pm$ 217.533 χ^2 /NDF: 117.1/116

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1786.671+/-0.300 χ^2/NDF : 656045.9/32

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1782.540+/-0.295 χ^2/NDF : 378326.8/35

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

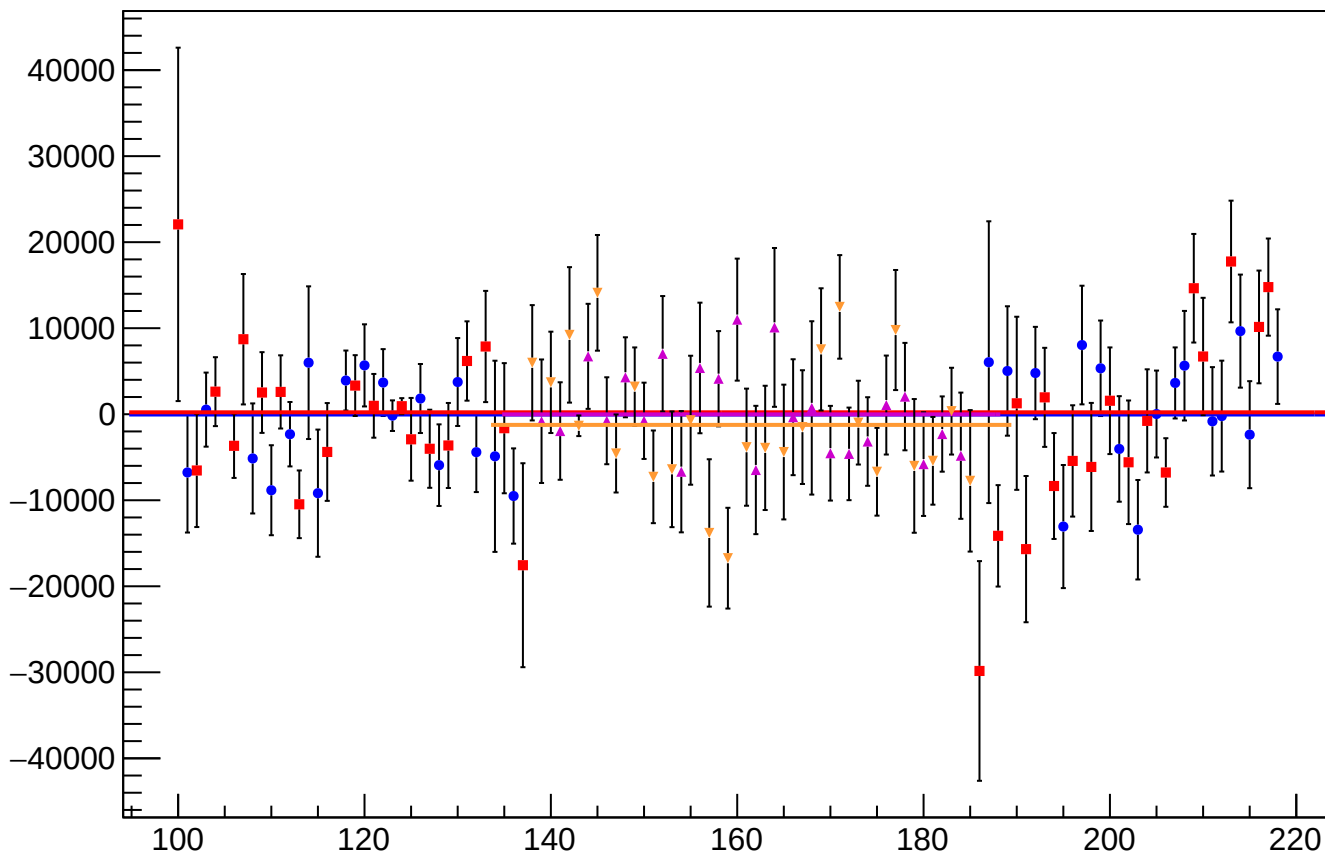
Right: 1784.573+/-0.210 χ^2/NDF : 1034469.1/68

In: 1834.346+/-0.219 χ^2/NDF : 836694.1/55

Out: 1838.938+/-0.216 χ^2/NDF : 998268.6/60

All: 1836.677+/-0.154 χ^2/NDF : 1835185.8/11

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -33.608 $\pm$ 839.830 χ^2 /NDF: 35.0/32

Left Out: -1239.833 $\pm$ 865.201 χ^2 /NDF:33.9/24

Right Out: 222.969 $\pm$ 657.606 χ^2 /NDF: 65.7/35

Left In: -15.863 $\pm$ 1243.317 χ^2 /NDF:13.2/22

Left: -840.501 $\pm$ 710.172 χ^2 /NDF: 47.8/47

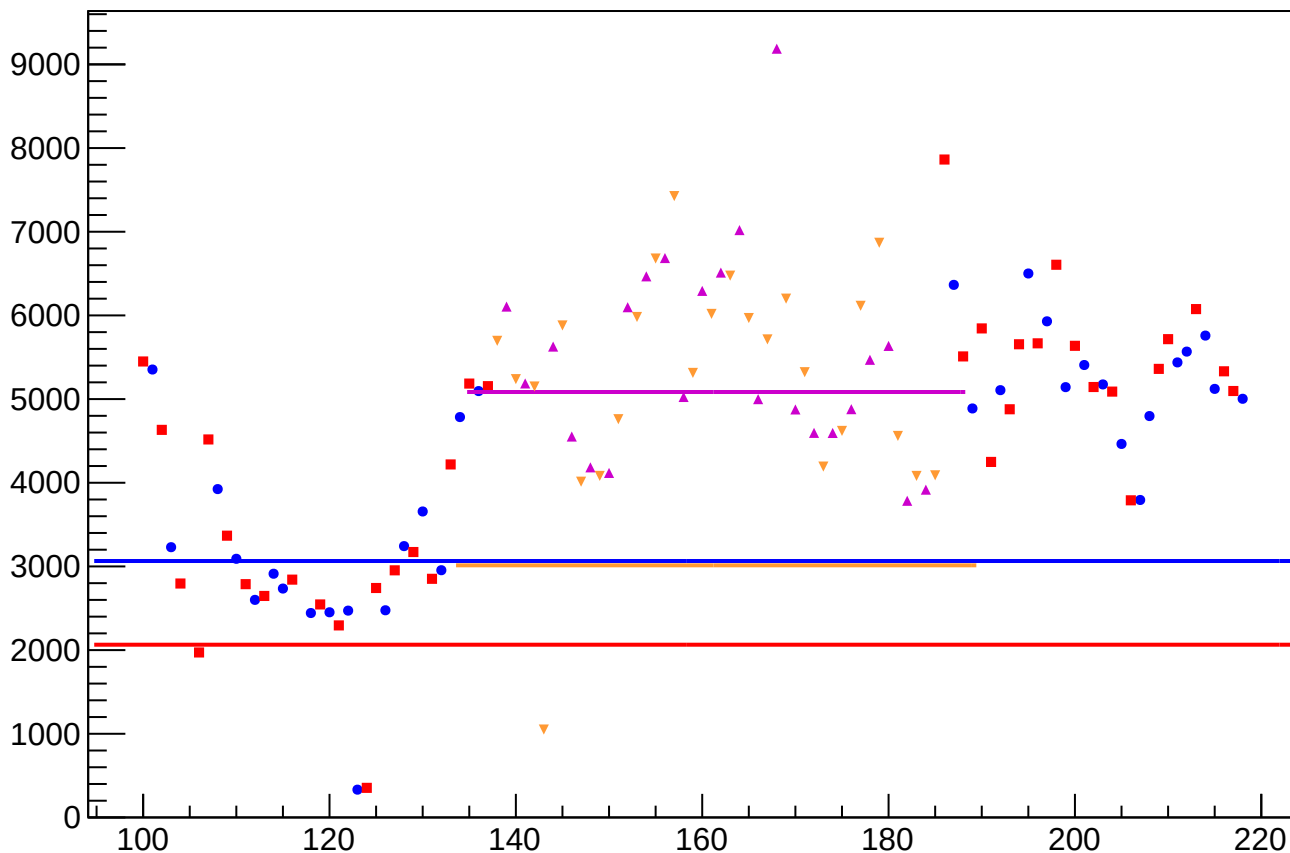
Right: 125.448 $\pm$ 517.764 χ^2 /NDF: 100.7/68

In: -28.049 $\pm$ 695.939 χ^2 /NDF:48.2/55

Out: -312.656 $\pm$ 523.546 χ^2 /NDF:101.4/60

All: -209.797 $\pm$ 418.377 χ^2 /NDF: 149.7/116

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 3064.844+/-0.594

χ^2/NDF : 9430801.8/32

Left: 3689.075+/-0.502 χ^2/NDF : 17314385.8/47

Right: 2444.726+/-0.366 χ^2/NDF : 28615278.3/68

Left Out: 3013.268+/-0.612

χ^2/NDF : 12270753.9/24

In: 3697.673+/-0.492 χ^2/NDF : 14358840.1/55

Out: 2411.915+/-0.370 χ^2/NDF : 31220569.3/60

Right Out: 2064.517+/-0.465

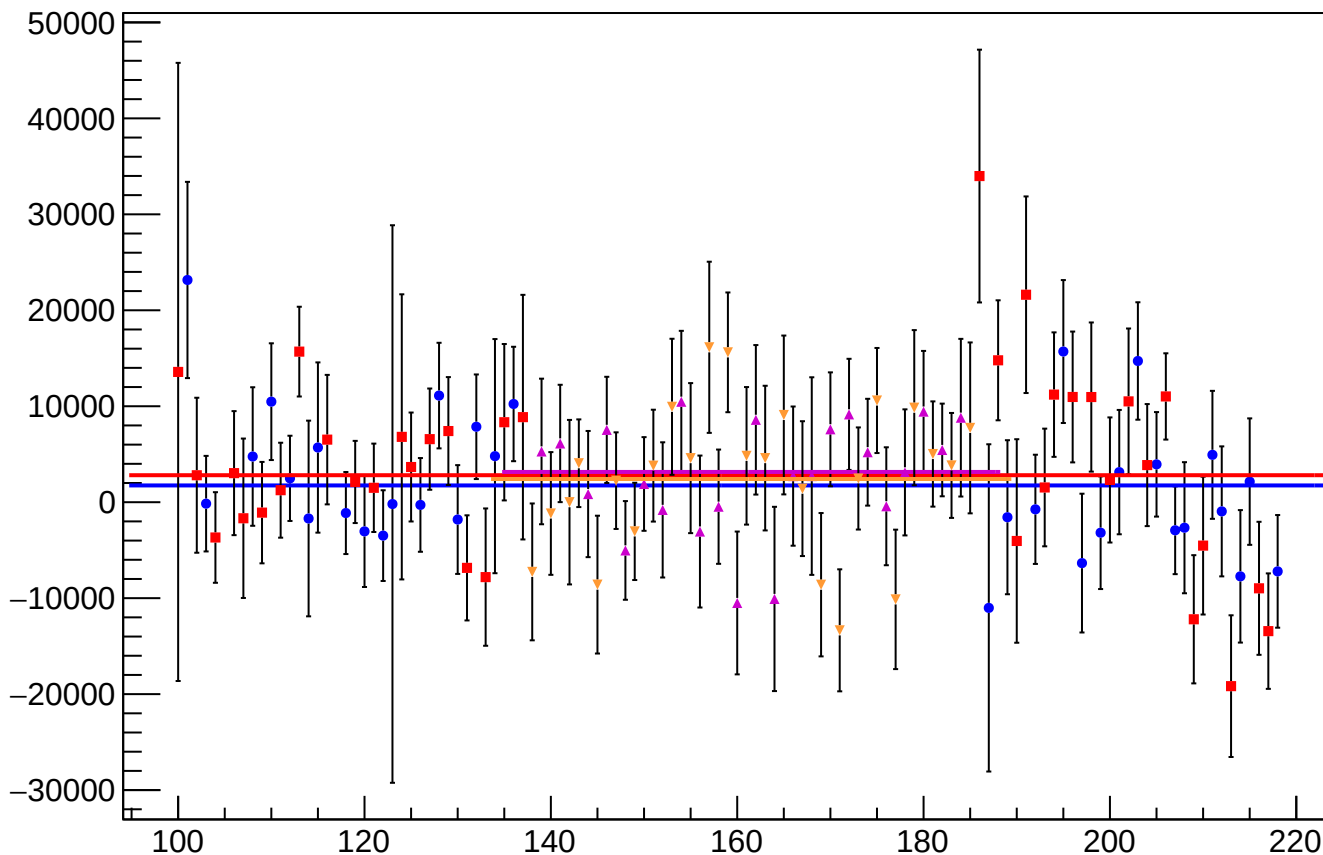
χ^2/NDF : 17425489.1/35

Left In: 5084.645+/-0.879

χ^2/NDF : 1303587.7/22

All: 2876.593+/-0.296 χ^2/NDF : 49938868.8/100

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1747.587 $\pm$ 1077.687 χ^2 /NDF: 33.4/32

Left Out: 2417.210 $\pm$ 1286.482 χ^2 /NDF:29.9/24

Right Out: 2813.532 $\pm$ 1063.141 χ^2 /NDF: 65.0/35

Left In: 3153.449 $\pm$ 1337.378 χ^2 /NDF:15.5/22

Left: 2771.054 $\pm$ 927.151 χ^2 /NDF: 45.5/47

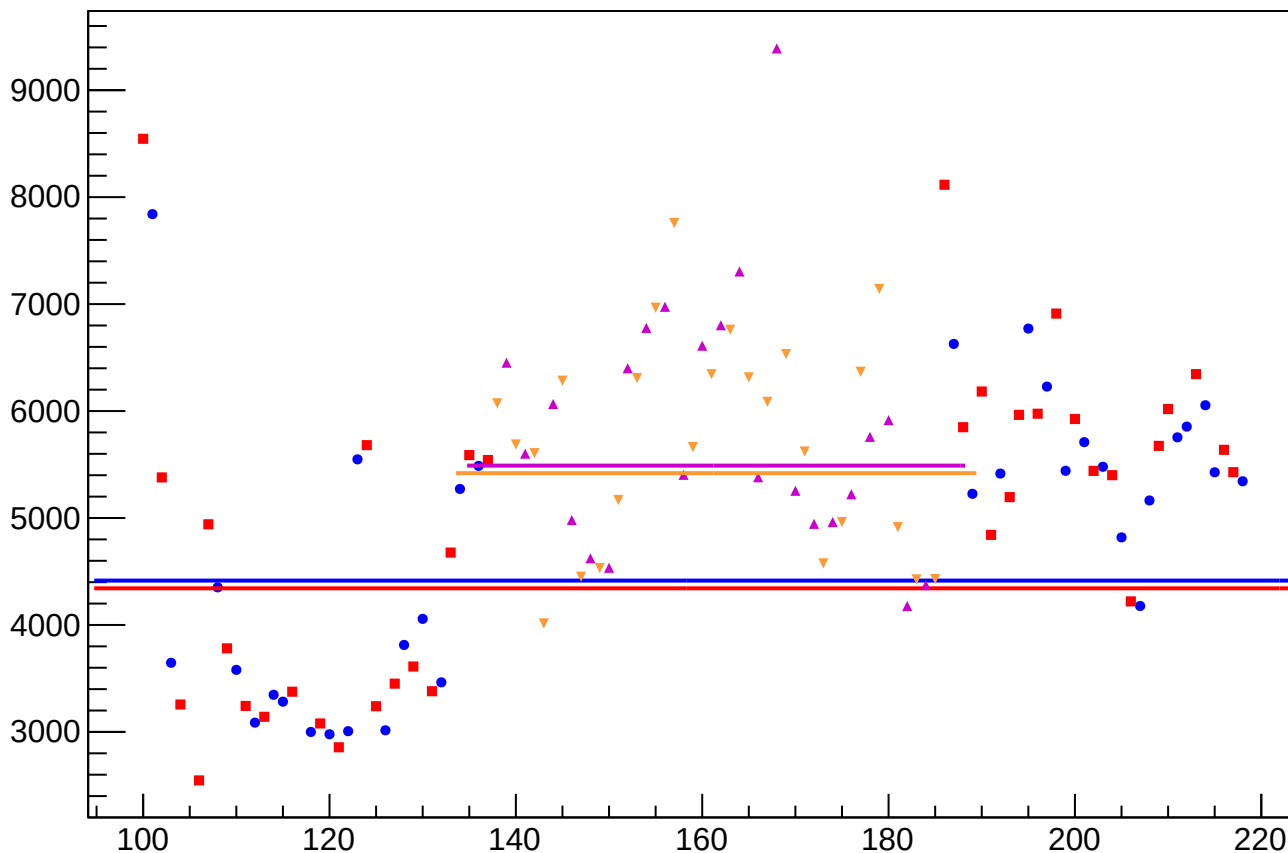
Right: 2287.802 $\pm$ 756.845 χ^2 /NDF: 99.0/68

In: 2301.075 $\pm$ 839.144 χ^2 /NDF:49.6/55

Out: 2652.705 $\pm$ 819.518 χ^2 /NDF:95.0/60

All: 2481.050 $\pm$ 586.302 χ^2 /NDF: 144.7/116

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4415.022+/-0.762

χ^2/NDF : 2462536.2/32

Left Out: 5419.305+/-0.910

χ^2/NDF :1109972.1/24

Right Out: 4342.593+/-0.745

χ^2/NDF : 2953232.8/35

Left In: 5489.885+/-0.946

χ^2/NDF :1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

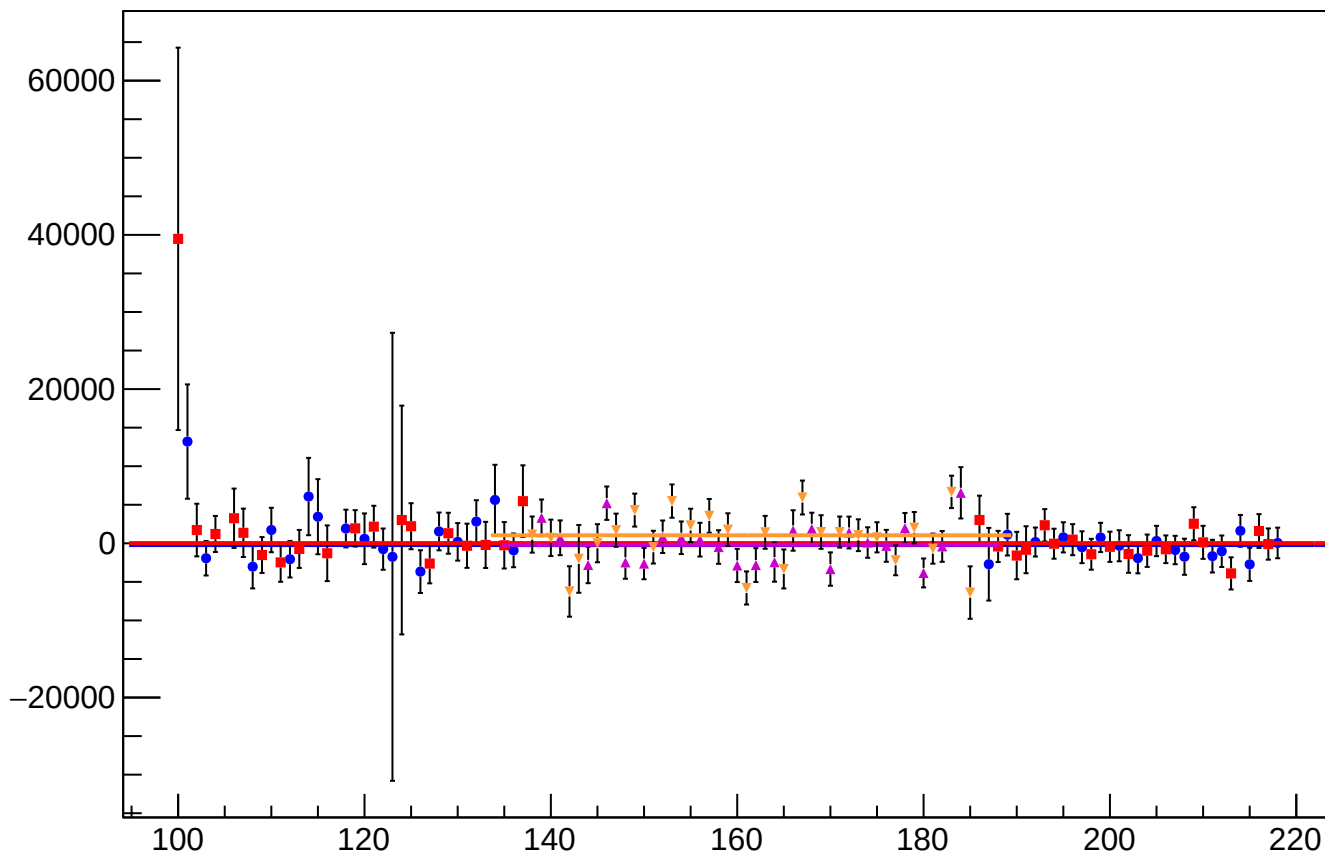
Right: 4378.013+/-0.533 χ^2/NDF : 5420385.3/68

In: 4838.194+/-0.593 χ^2/NDF :4310168.7/55

Out: 4775.182+/-0.577 χ^2/NDF :4901296.3/60

All: 4805.785+/-0.414 χ^2/NDF : 9217265.2/11

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -226.146+/-421.714 χ^2/NDF : 19.2/32

Left Out: 1041.262+/-446.249 χ^2/NDF :48.6/24

Right Out: 30.517+/-416.275 χ^2/NDF : 19.5/35

Left In: -191.966+/-453.055 χ^2/NDF :30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

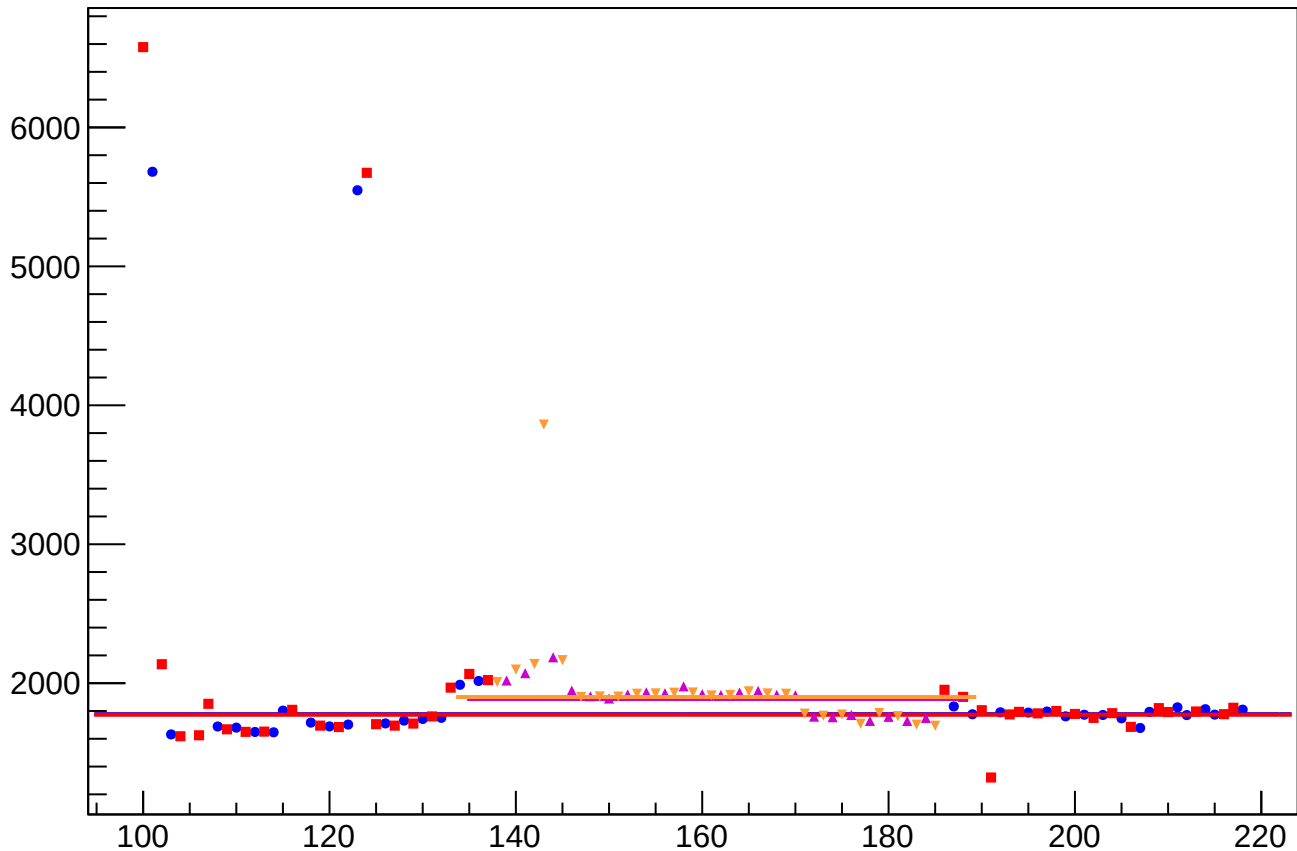
Right: -96.148+/-296.255 χ^2/NDF : 38.9/68

In: -210.279+/-308.683 χ^2/NDF :49.2/55

Out: 500.807+/-304.396 χ^2/NDF :70.8/60

All: 150.235+/-216.740 χ^2/NDF : 122.7/116

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1777.130+/-0.298 χ^2/NDF : 652376.6/32

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1773.147+/-0.294 χ^2/NDF : 372864.2/35

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

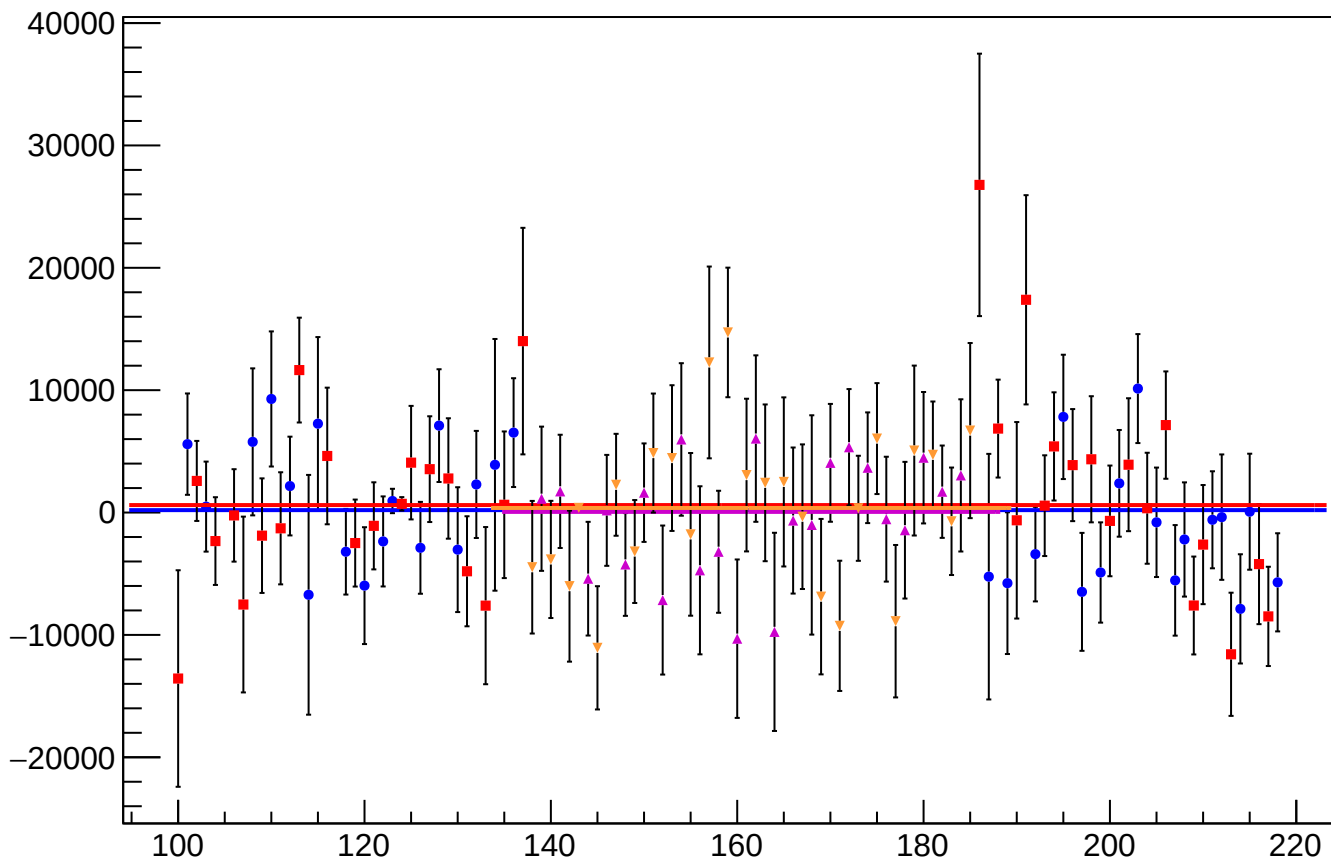
Right: 1775.108+/-0.209 χ^2/NDF : 1025331.4/68

In: 1827.845+/-0.218 χ^2/NDF : 838204.3/55

Out: 1832.146+/-0.215 χ^2/NDF : 997781.1/60

All: 1830.028+/-0.153 χ^2/NDF : 1836182.5/11

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 196.859 $\pm$ 630.349 χ^2 /NDF: 37.0/32

Left Out: 373.277 $\pm$ 382.071 χ^2 /NDF:30.8/24

Right Out: 610.175 $\pm$ 450.826 χ^2 /NDF: 53.6/35

Left In: 53.099 $\pm$ 1089.888 χ^2 /NDF:14.5/22

Left: 338.236 $\pm$ 360.558 χ^2 /NDF: 45.4/47

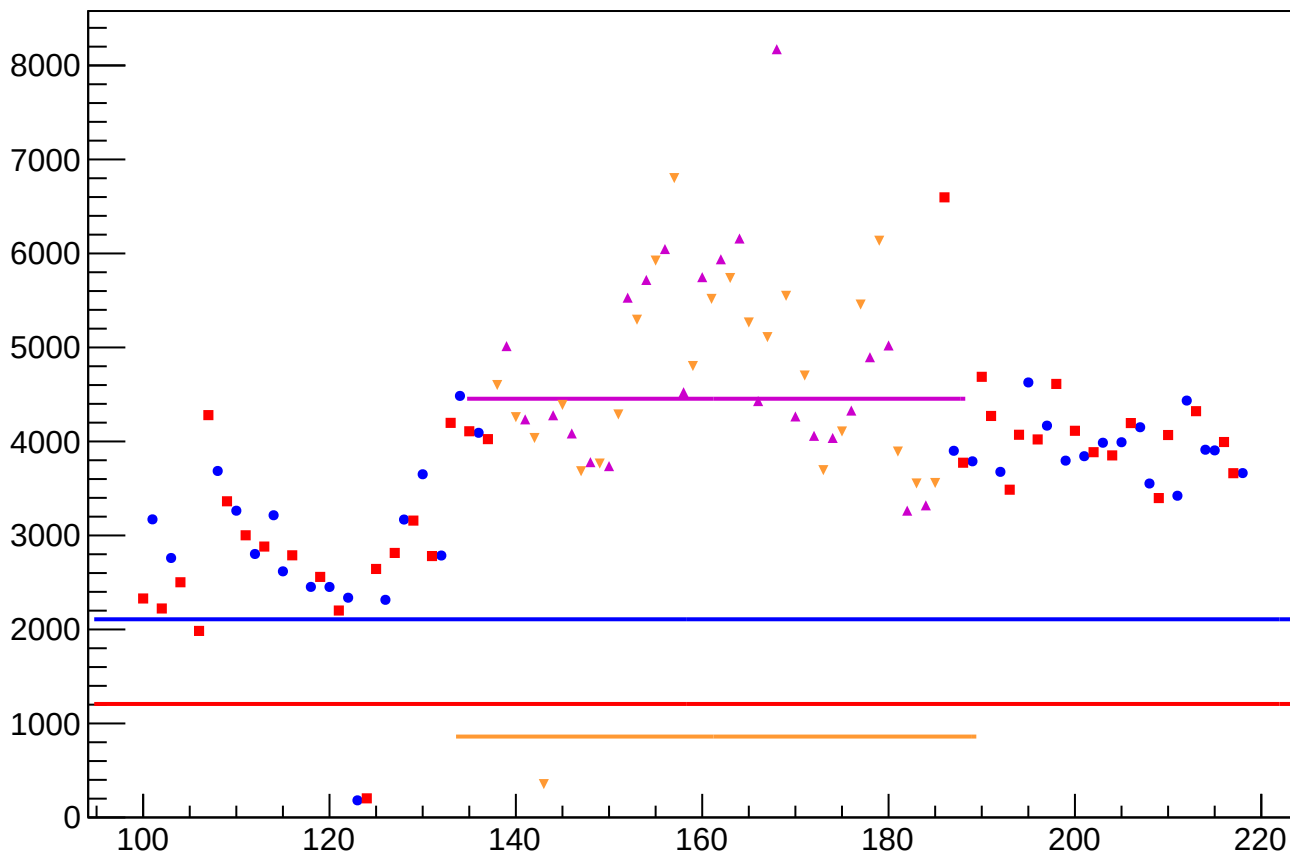
Right: 470.304 $\pm$ 366.694 χ^2 /NDF: 90.9/68

In: 160.825 $\pm$ 545.659 χ^2 /NDF:51.5/55

Out: 472.303 $\pm$ 291.476 χ^2 /NDF:84.6/60

All: 403.156 $\pm$ 257.095 χ^2 /NDF: 136.4/116

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 2108.212 $\pm$ 0.446 χ^2/NDF : 13824339.3/32

Left Out: 860.545 $\pm$ 0.270 χ^2/NDF : 26340106.5/24

Right Out: 1207.361 $\pm$ 0.319 χ^2/NDF : 22800764.3/35

Left In: 4454.402 $\pm$ 0.771 χ^2/NDF : 1349758.1/22

Left: 1253.867 $\pm$ 0.255 χ^2/NDF : 47056303.3/47

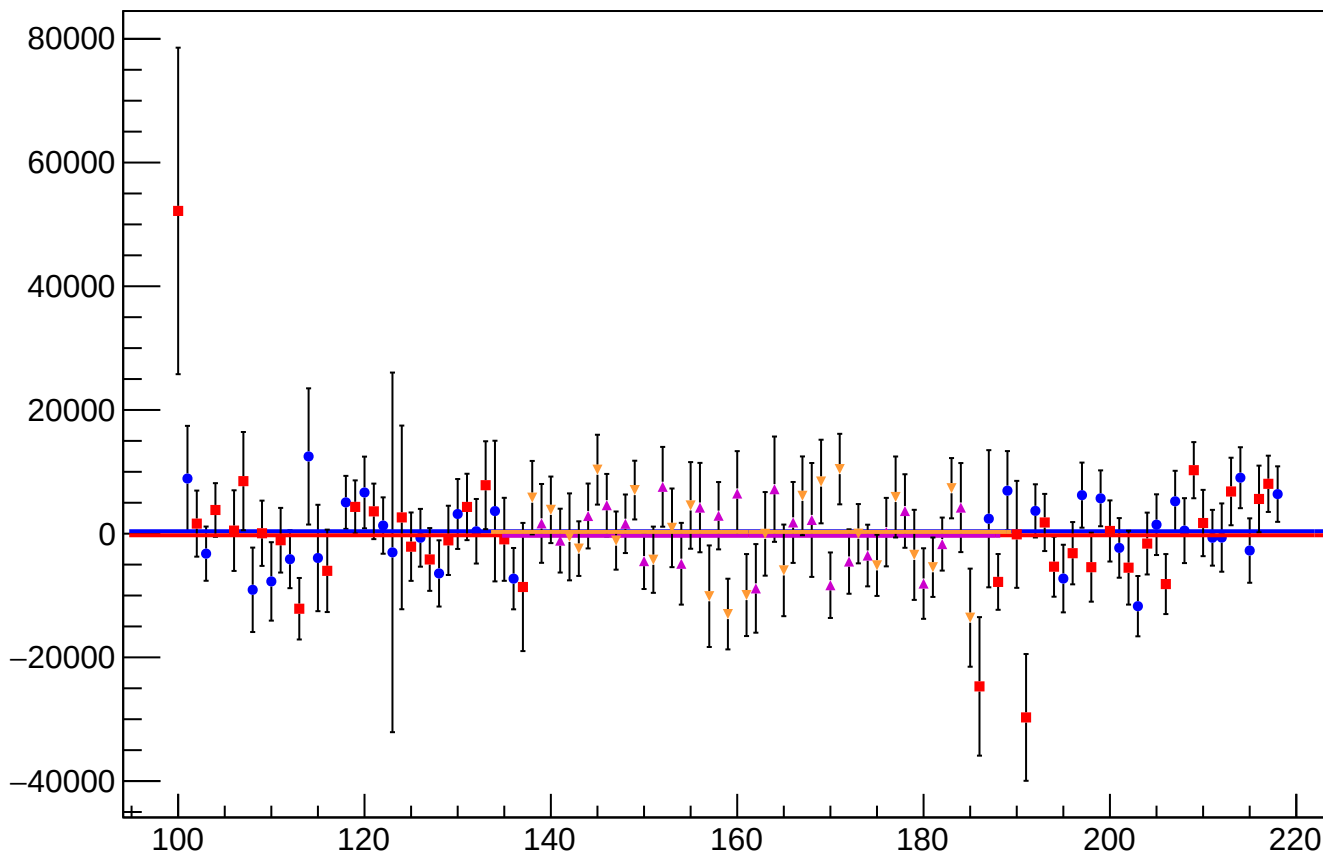
Right: 1512.219 $\pm$ 0.259 χ^2/NDF : 39327582.7/68

In: 2696.301 $\pm$ 0.386 χ^2/NDF : 22119113.8/55

Out: 1005.518 $\pm$ 0.206 χ^2/NDF : 49829721.4/60

All: 1380.864 $\pm$ 0.182 χ^2/NDF : 86888642.4/131

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 391.166 ± 941.167 χ^2/NDF : 33.5/32

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -258.189 ± 930.639 χ^2/NDF : 51.5/35

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

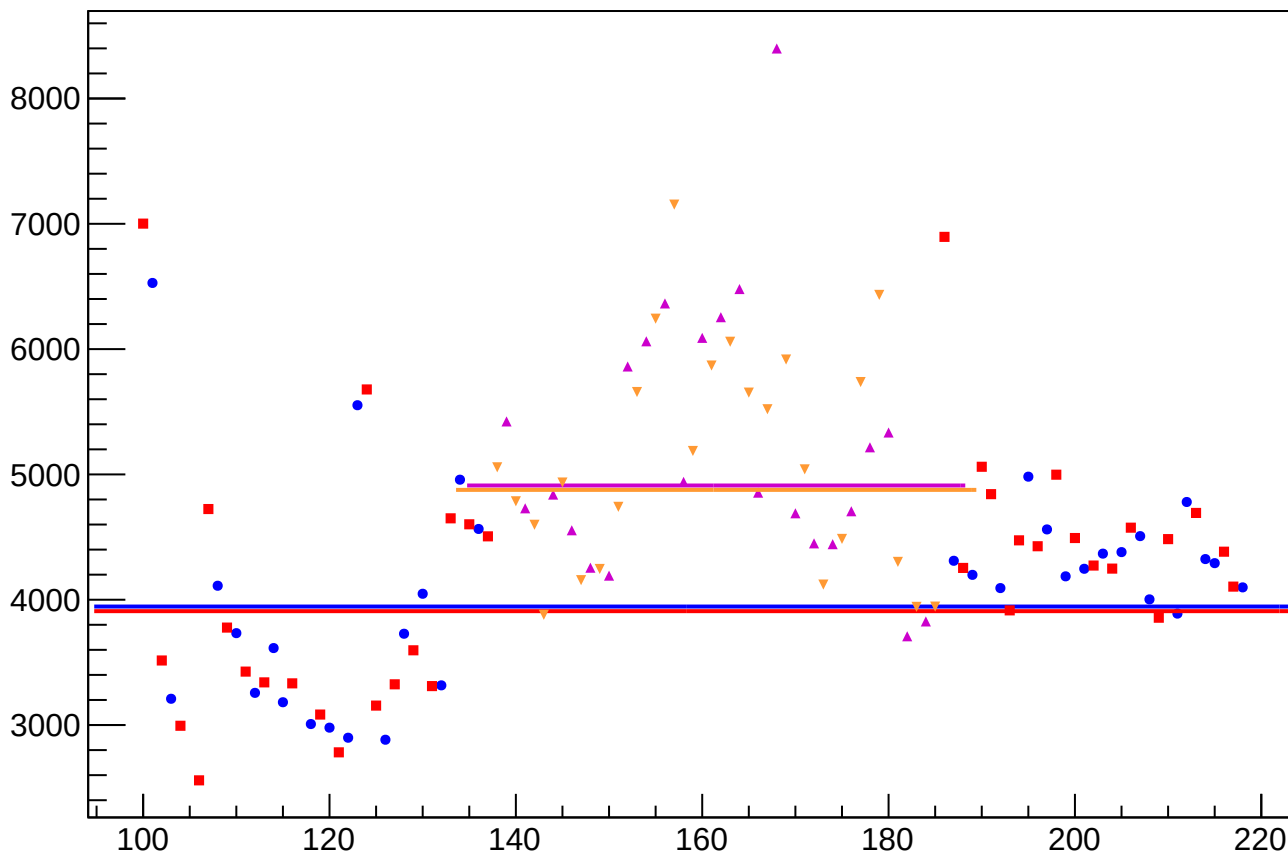
Right: 62.837 ± 661.752 χ^2/NDF : 85.3/68

In: 114.421 ± 739.623 χ^2/NDF : 48.4/55

Out: -43.073 ± 724.774 χ^2/NDF : 84.1/60

All: 34.077 ± 517.663 χ^2/NDF : 132.5/116

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3945.593 $\pm$ 0.666 χ^2 /NDF: 997387.0/32

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF: 972528.1/24

Right Out: 3908.745 $\pm$ 0.654 χ^2 /NDF: 1217365.1/35

Left In: 4911.546 $\pm$ 0.846 χ^2 /NDF: 1043164.6/22

Left: 4893.451 $\pm$ 0.588 χ^2 /NDF: 2016577.8/47

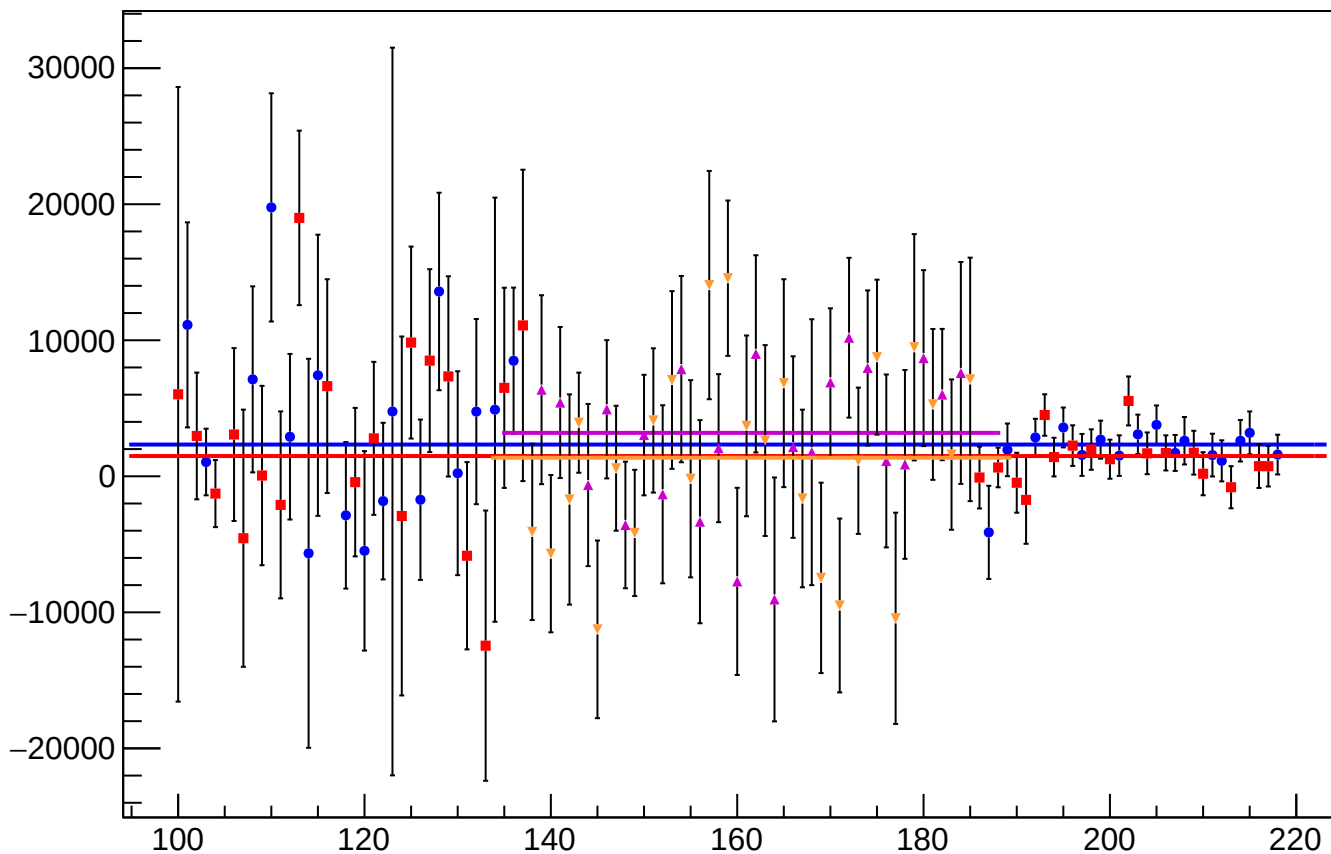
Right: 3926.843 $\pm$ 0.466 χ^2 /NDF: 2216312.0/68

In: 4315.000 $\pm$ 0.523 χ^2 /NDF: 2846227.4/55

Out: 4286.601 $\pm$ 0.510 χ^2 /NDF: 3045293.5/60

All: 4300.457 $\pm$ 0.365 χ^2 /NDF: 5893030.7/115

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2333.794 $\pm$ 372.119 χ^2 /NDF: 22.1/32

Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24

Right Out: 1488.887 $\pm$ 373.394 χ^2 /NDF: 33.1/35

Left In: 3191.160 $\pm$ 1270.021 χ^2 /NDF:14.0/22

Left: 2231.138 $\pm$ 874.630 χ^2 /NDF: 43.0/47

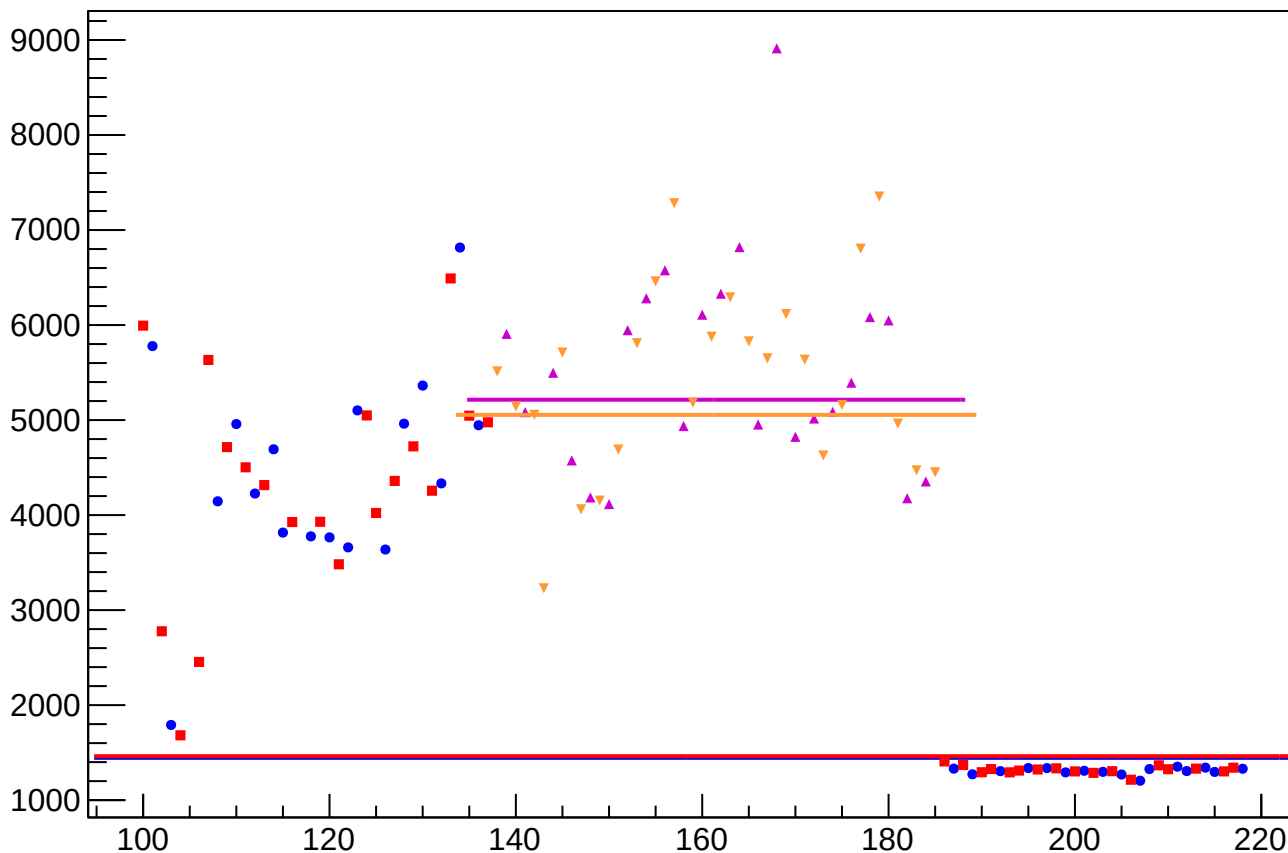
Right: 1912.786 $\pm$ 263.578 χ^2 /NDF: 57.8/68

In: 2401.580 $\pm$ 357.106 χ^2 /NDF:36.5/55

Out: 1478.062 $\pm$ 356.696 χ^2 /NDF:61.1/60

All: 1939.290 $\pm$ 252.367 χ^2 /NDF: 101.0/116

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1445.138 $\pm$ 0.263 χ^2 /NDF: 5927038.1/32

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF: 1437224.7/24

Right Out: 1462.442 $\pm$ 0.264 χ^2 /NDF: 5842355.6/35

Left In: 5214.120 $\pm$ 0.898 χ^2 /NDF: 1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

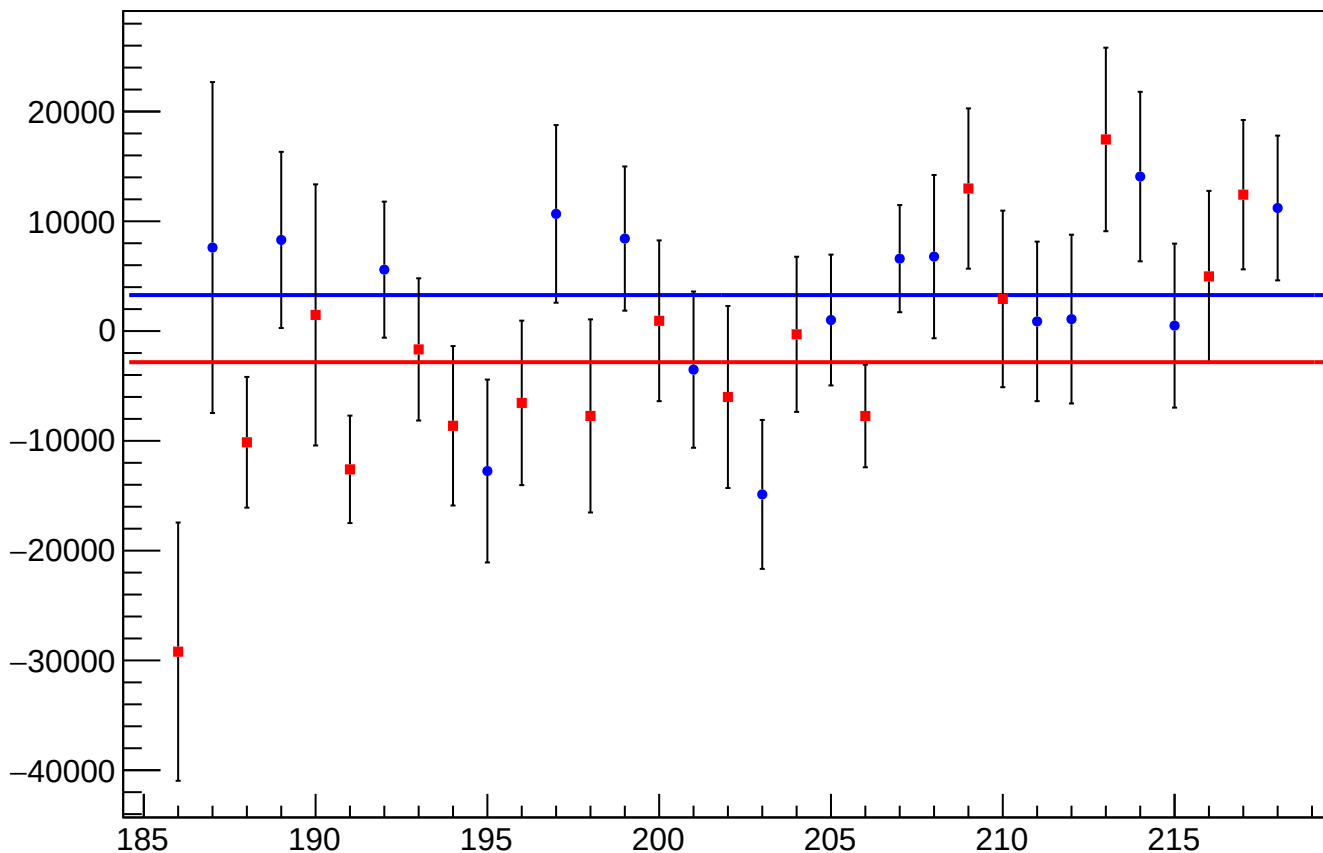
Right: 1453.766 $\pm$ 0.186 χ^2 /NDF: 11771550.0/68

In: 1743.124 $\pm$ 0.253 χ^2 /NDF: 23200861.3/55

Out: 1776.160 $\pm$ 0.252 χ^2 /NDF: 23467589.8/60

All: 1759.671 $\pm$ 0.178 χ^2 /NDF: 46677024.8/117

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 3279.189+/-1761.925 χ^2/NDF : 18.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -2833.678+/-1706.343 χ^2/NDF : 30.6/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

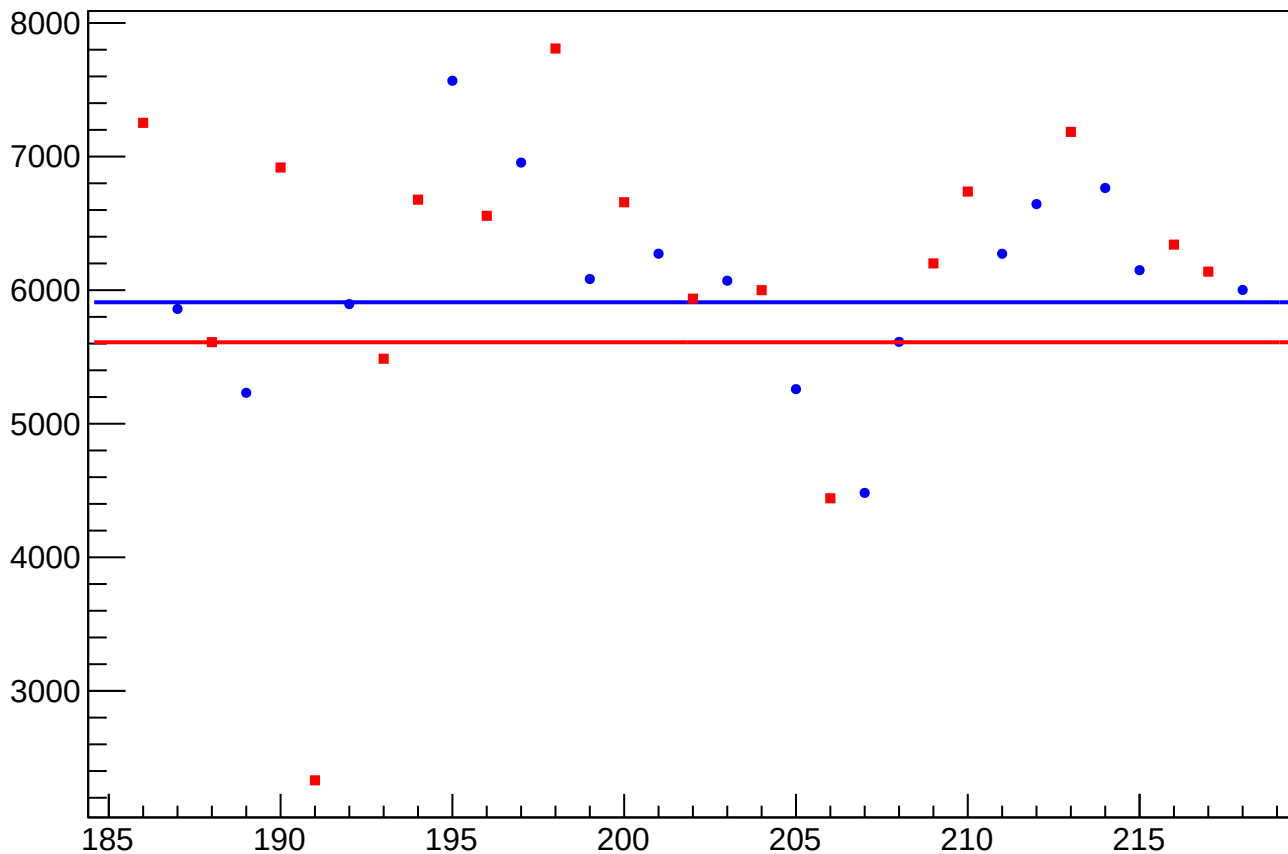
Right: 124.818+/-1225.746 χ^2/NDF : 55.3/32

In: 3279.189+/-1761.925 χ^2/NDF : 18.4/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 124.818+/-1225.746 χ^2/NDF : 55.3/32

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5909.387+/-1.246 χ^2/NDF : 383079.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5609.860+/-1.207 χ^2/NDF : 1490488.7/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

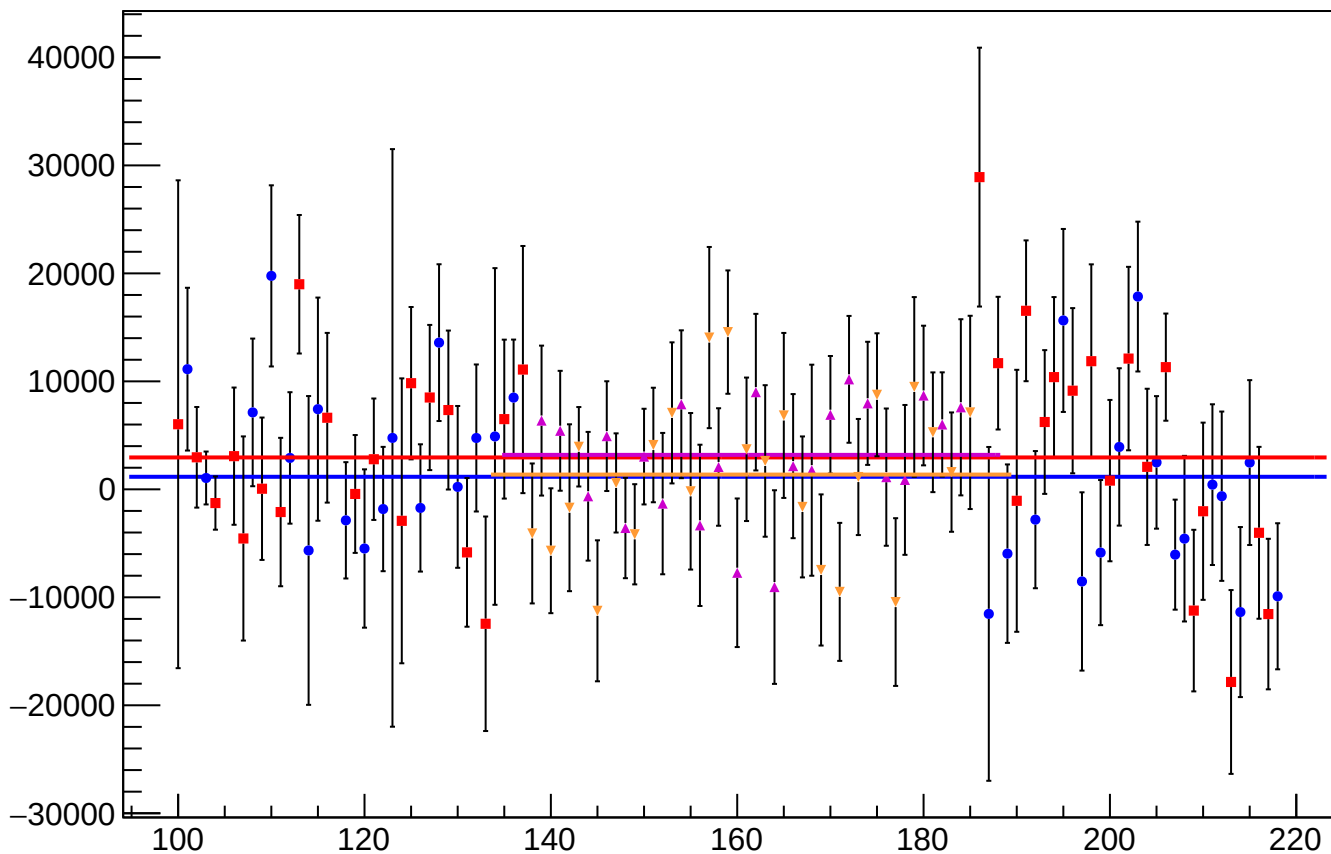
Right: 5754.825+/-0.867 χ^2/NDF : 1903394.6/32

In: 5909.387+/-1.246 χ^2/NDF : 383079.8/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5754.825+/-0.867 χ^2/NDF : 1903394.6/32

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1161.175+/-1134.284 χ^2/NDF : 36.2/32

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 2952.928+/-1097.274 χ^2/NDF : 51.3/35

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

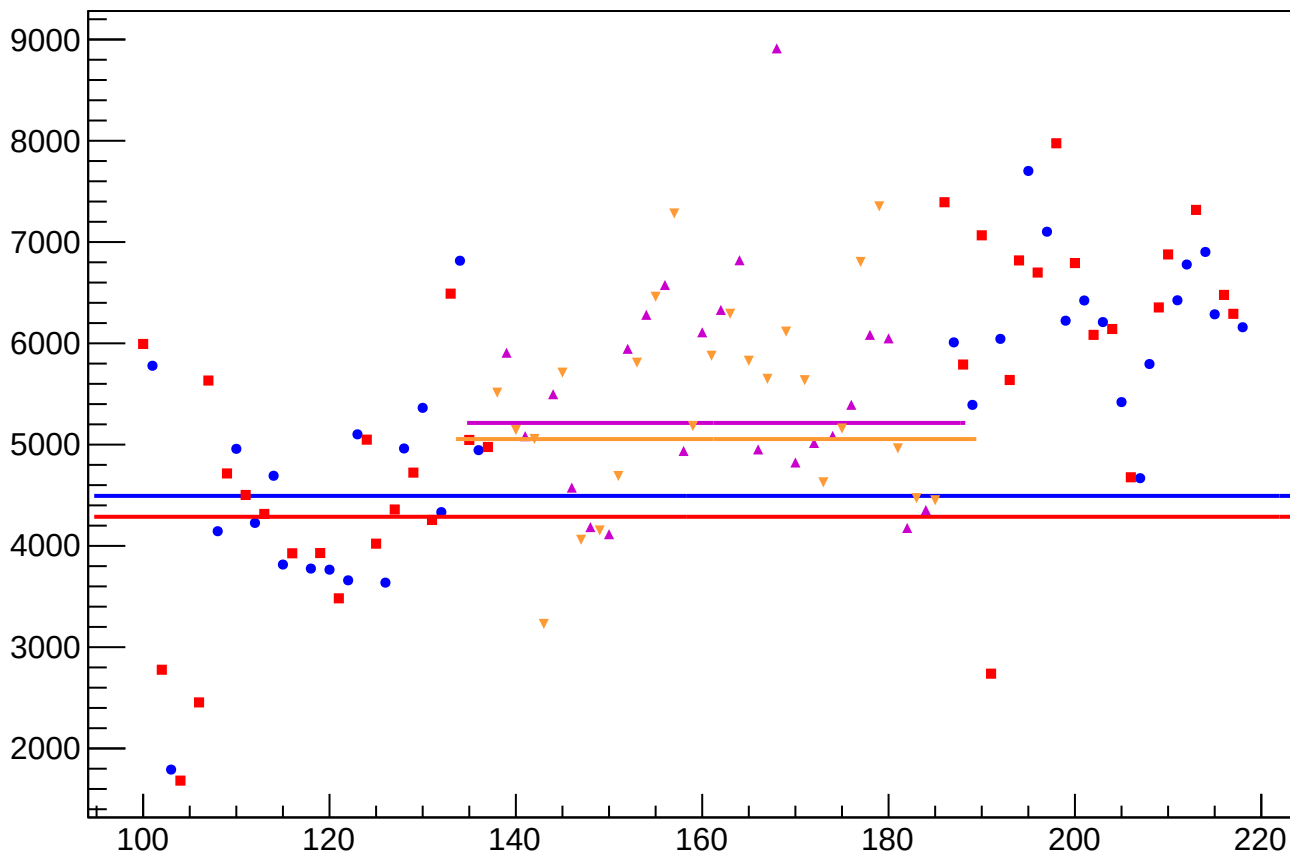
Right: 2086.759+/-788.650 χ^2/NDF : 88.8/68

In: 2061.927+/-845.994 χ^2/NDF : 51.6/55

Out: 2233.967+/-811.694 χ^2/NDF : 80.2/60

All: 2151.505+/-585.705 χ^2/NDF : 131.9/116

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4493.733+/-0.802 χ^2/NDF : 4625595.9/32

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 4287.516+/-0.771 χ^2/NDF : 5638987.2/35

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

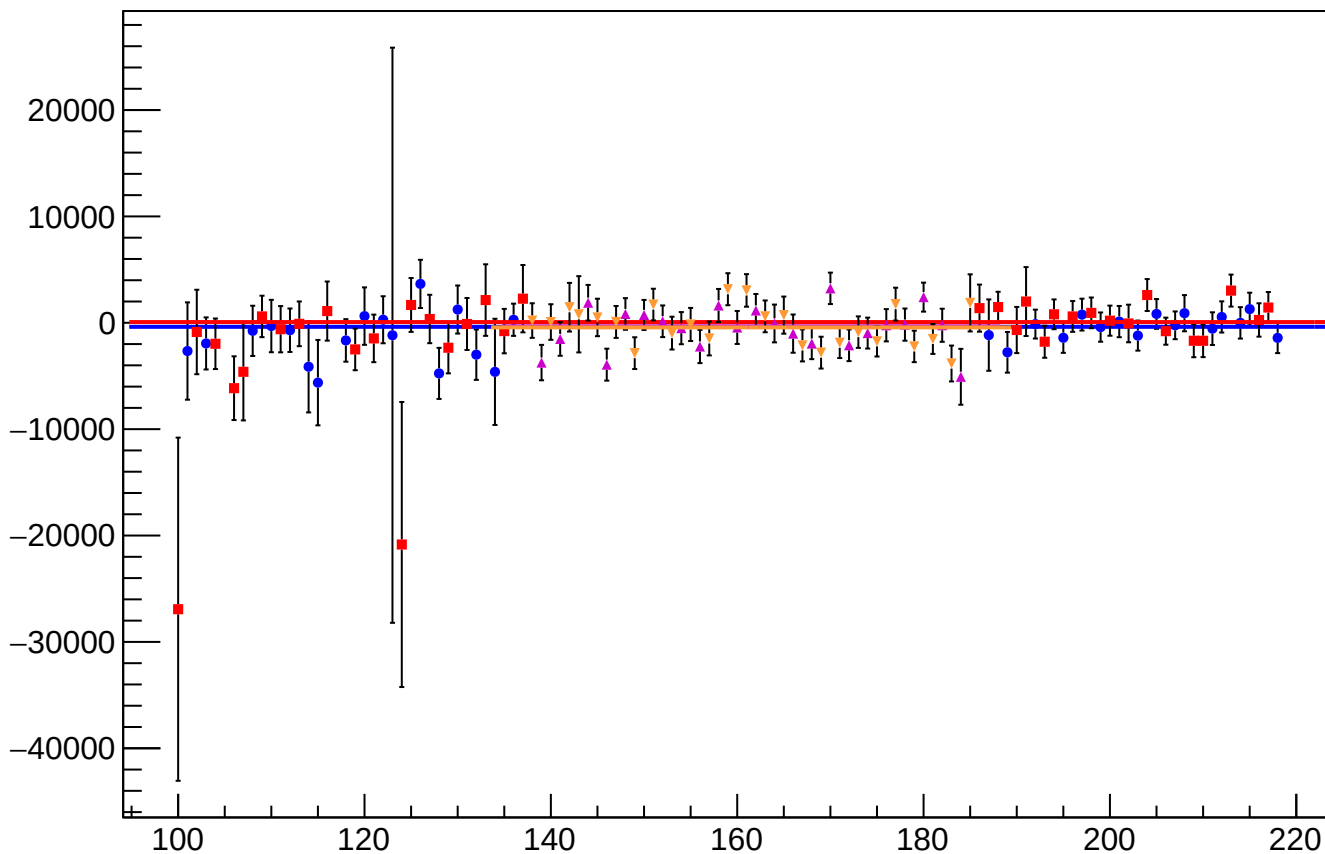
Right: 4386.607+/-0.556 χ^2/NDF : 10298924.6/68

In: 4813.381+/-0.598 χ^2/NDF : 6036058.4/55

Out: 4632.681+/-0.572 χ^2/NDF : 7521244.6/60

All: 4719.006+/-0.413 χ^2/NDF : 13604958.7/122

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -378.614 $\pm$ 320.002 χ^2 /NDF: 19.7/32

Left Out: -431.715 $\pm$ 320.540 χ^2 /NDF:33.1/24

Right Out: 68.163 $\pm$ 320.280 χ^2 /NDF: 31.1/35

Left In: -343.737 $\pm$ 324.368 χ^2 /NDF:33.8/22

Left: -388.248 $\pm$ 227.997 χ^2 /NDF: 66.9/47

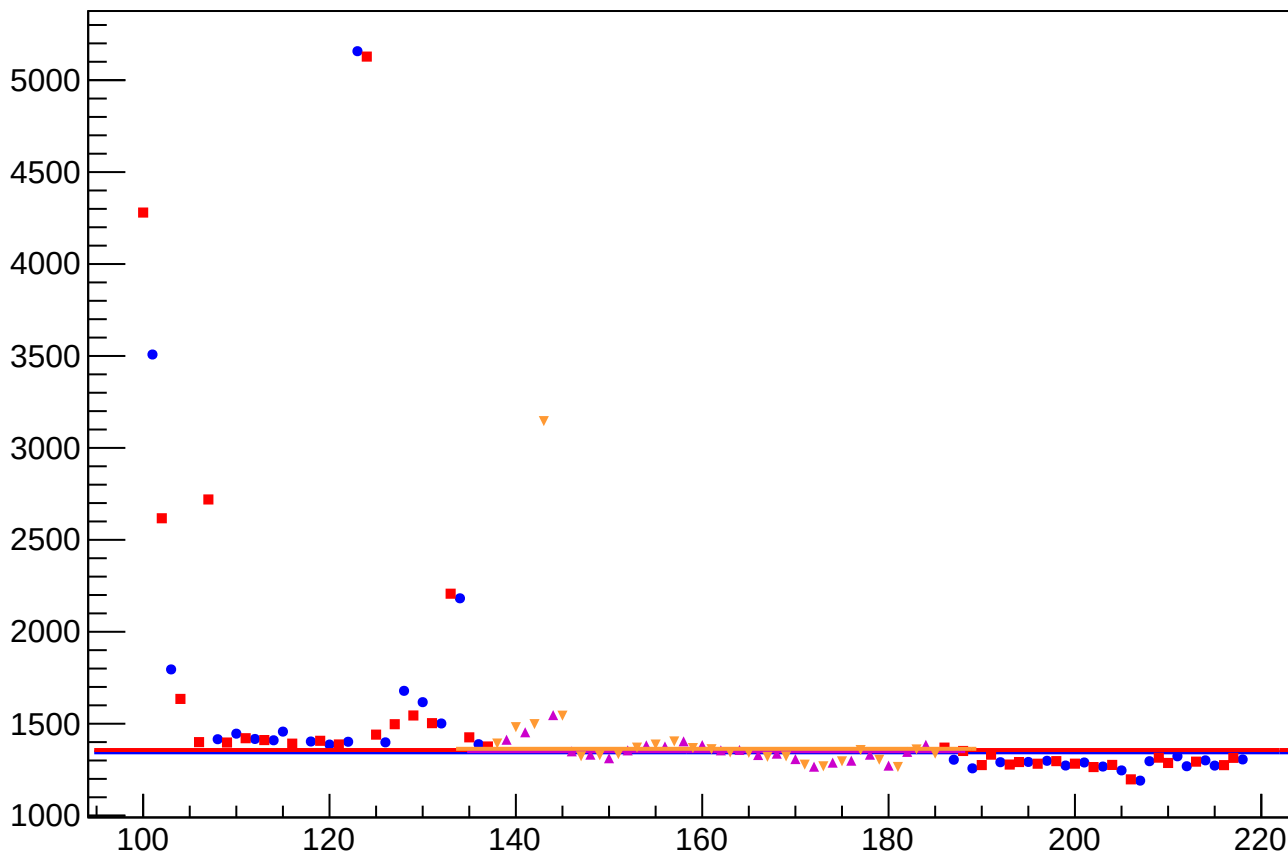
Right: -155.419 $\pm$ 226.374 χ^2 /NDF: 51.7/68

In: -361.412 $\pm$ 227.804 χ^2 /NDF:53.5/55

Out: -181.573 $\pm$ 226.564 χ^2 /NDF:65.4/60

All: -271.001 $\pm$ 160.641 χ^2 /NDF: 119.1/116

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1344.470+/-0.226 χ^2/NDF : 783228.8/32

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1356.935+/-0.226 χ^2/NDF : 882692.2/35

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

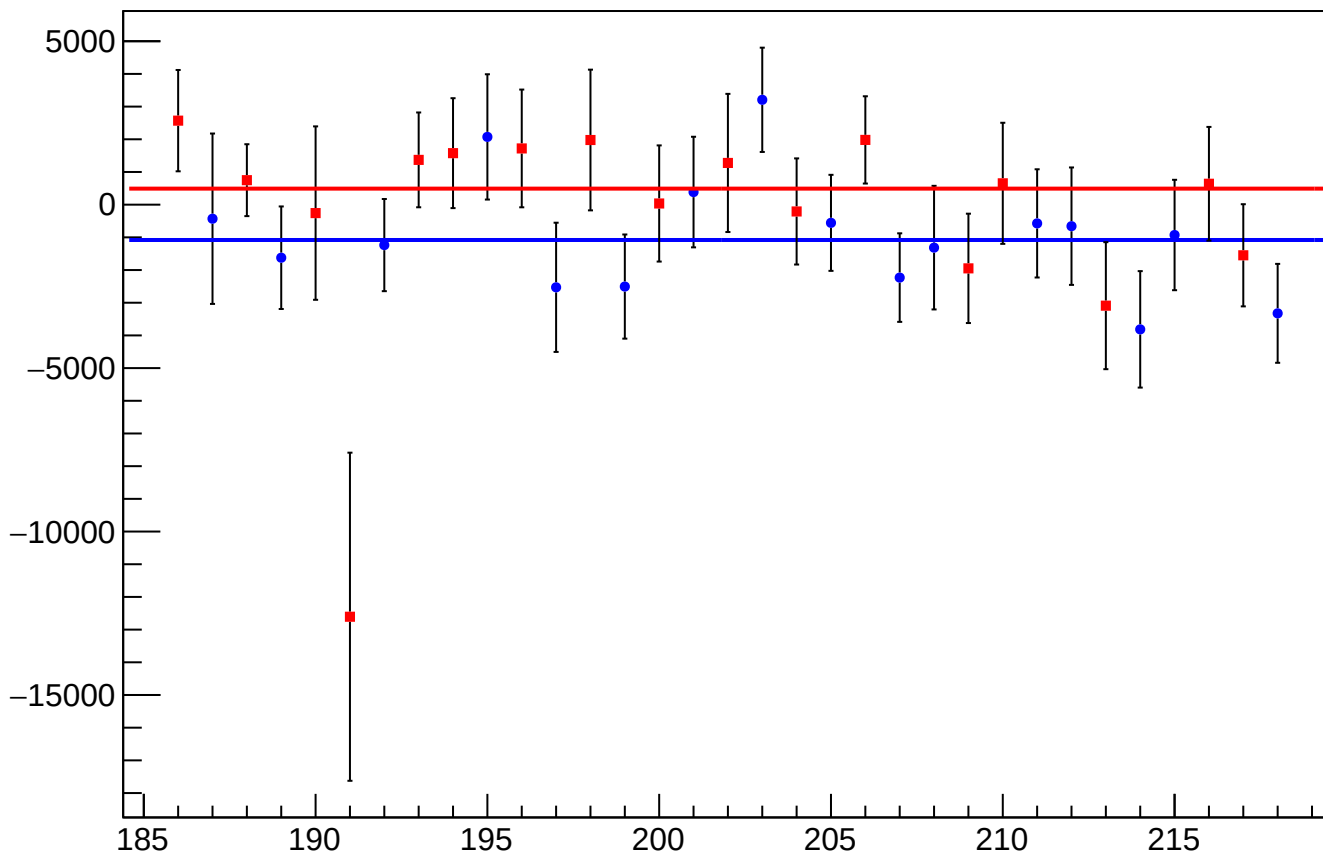
Right: 1350.697+/-0.160 χ^2/NDF : 1667437.0/68

In: 1347.646+/-0.161 χ^2/NDF : 850772.7/55

Out: 1360.245+/-0.160 χ^2/NDF : 1458346.5/60

All: 1353.980+/-0.114 χ^2/NDF : 2312195.1/111

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -1080.809+/-415.680 χ^2/NDF : 17.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 490.617+/-411.206 χ^2/NDF : 19.3/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

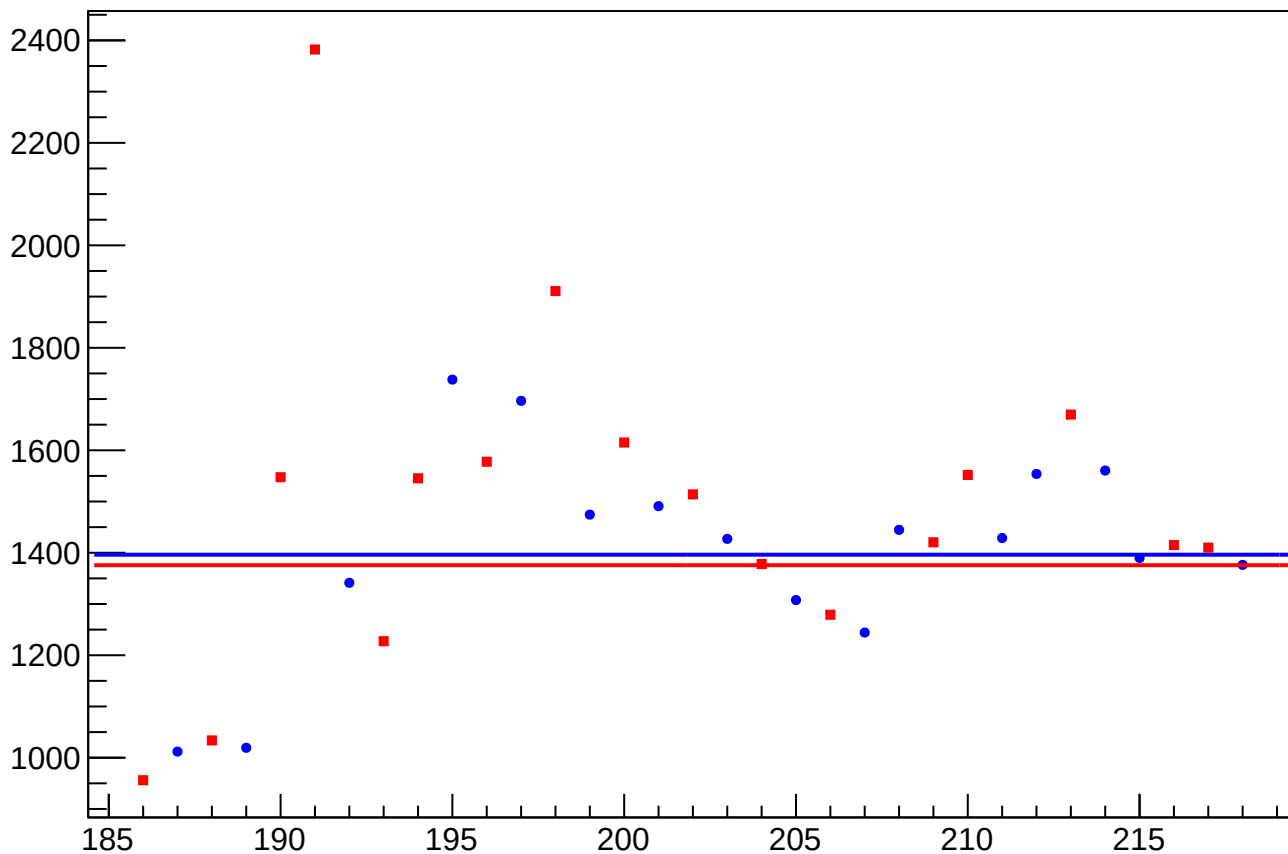
Right: -286.595+/-292.336 χ^2/NDF : 44.4/32

In: -1080.809+/-415.680 χ^2/NDF : 17.8/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -286.595+/-292.336 χ^2/NDF : 44.4/32

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1396.219+/-0.294 χ^2/NDF : 350920.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1375.695+/-0.291 χ^2/NDF : 741623.9/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

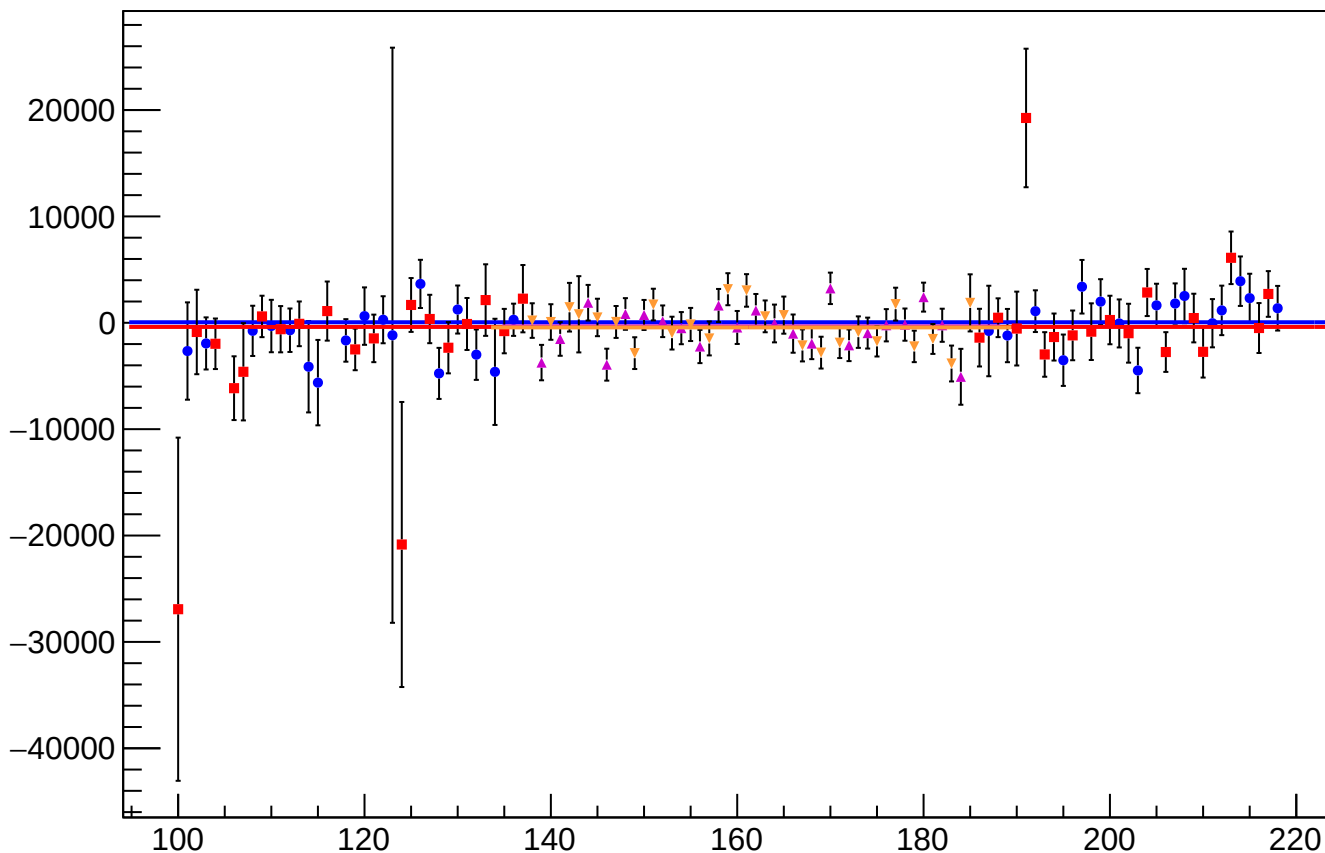
Right: 1385.846+/-0.207 χ^2/NDF : 1095008.3/32

In: 1396.219+/-0.294 χ^2/NDF : 350920.2/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1385.846+/-0.207 χ^2/NDF : 1095008.3/32

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: 49.778+/-414.316 χ^2/NDF : 31.0/32

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -389.237+/-413.575 χ^2/NDF : 40.0/35

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

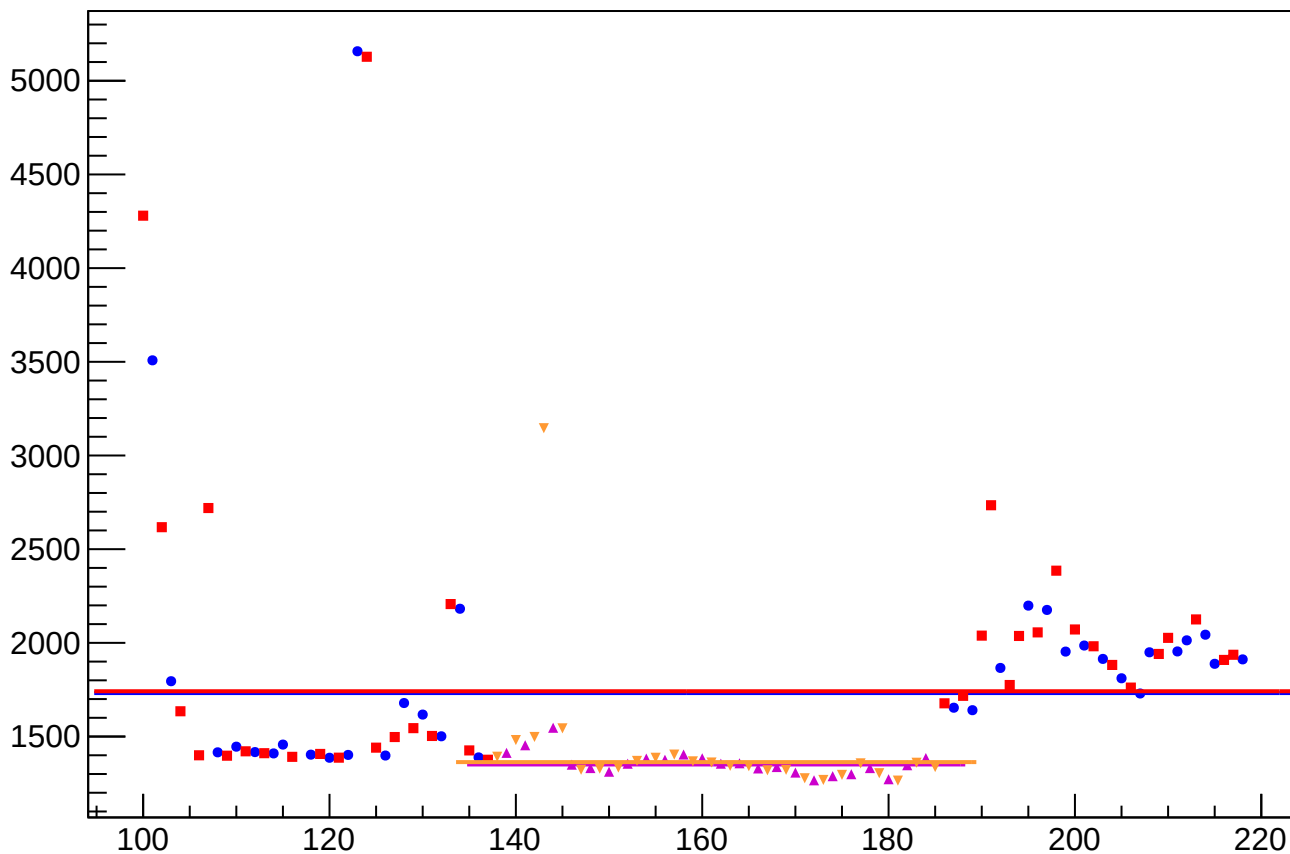
Right: -170.122+/-292.704 χ^2/NDF : 71.6/68

In: -194.197+/-255.406 χ^2/NDF :65.3/55

Out: -415.774+/-253.354 χ^2/NDF :73.1/60

All: -305.879+/-179.869 χ^2/NDF : 138.8/116

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1732.048 $\pm$ 0.293 χ^2 /NDF: 1121894.0/32

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1741.759 $\pm$ 0.292 χ^2 /NDF: 1321144.8/35

Left In: 1350.909 $\pm$ 0.229 χ^2 /NDF: 67144.5/22

Left: 1357.310 $\pm$ 0.161 χ^2 /NDF: 643910.7/47

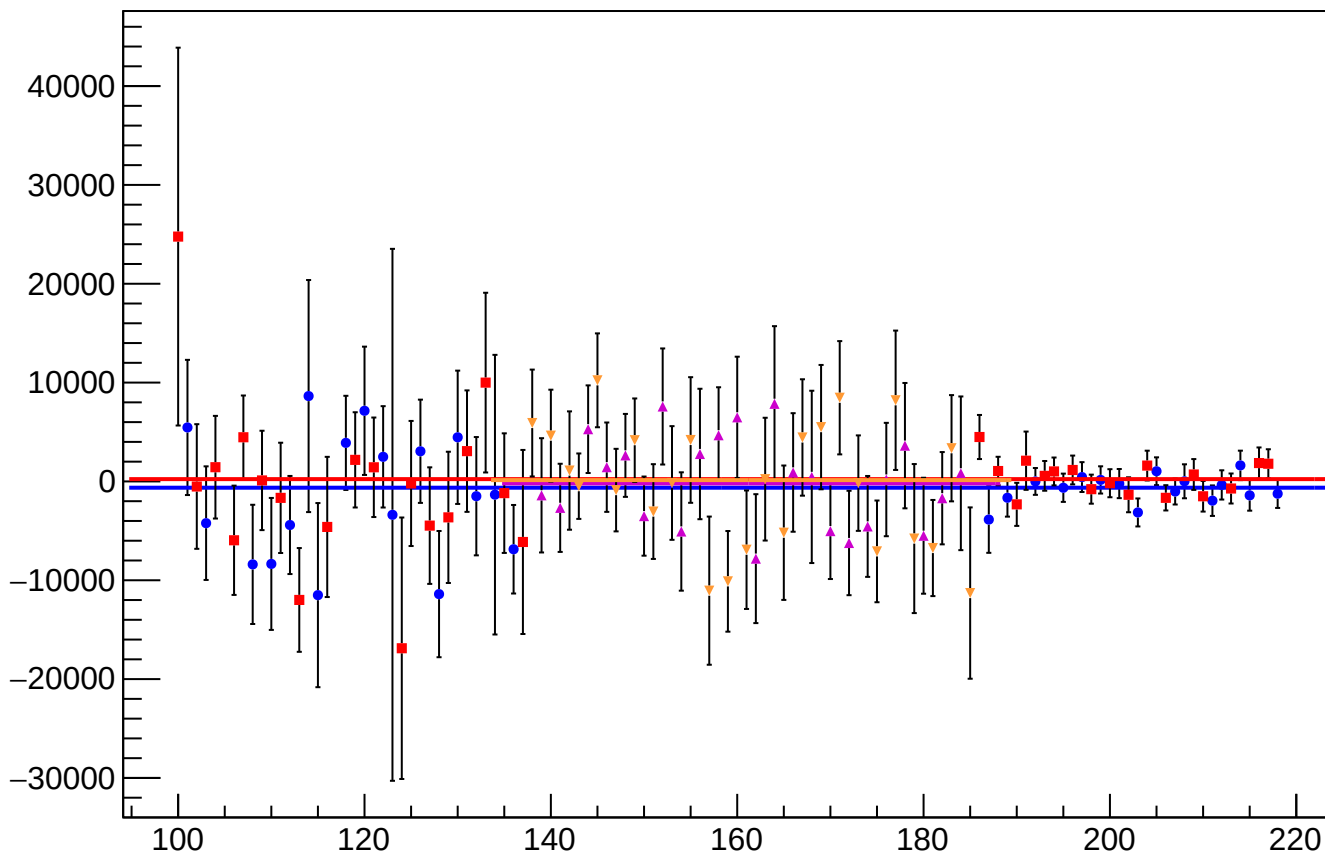
Right: 1736.912 $\pm$ 0.207 χ^2 /NDF: 2443589.2/68

In: 1495.746 $\pm$ 0.181 χ^2 /NDF: 2238381.7/55

Out: 1505.489 $\pm$ 0.179 χ^2 /NDF: 2941219.8/60

All: 1500.657 $\pm$ 0.127 χ^2 /NDF: 5181068.4/11

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -635.674 ± 367.557 χ^2/NDF : 25.9/32

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: 233.276 ± 367.350 χ^2/NDF : 29.5/35

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

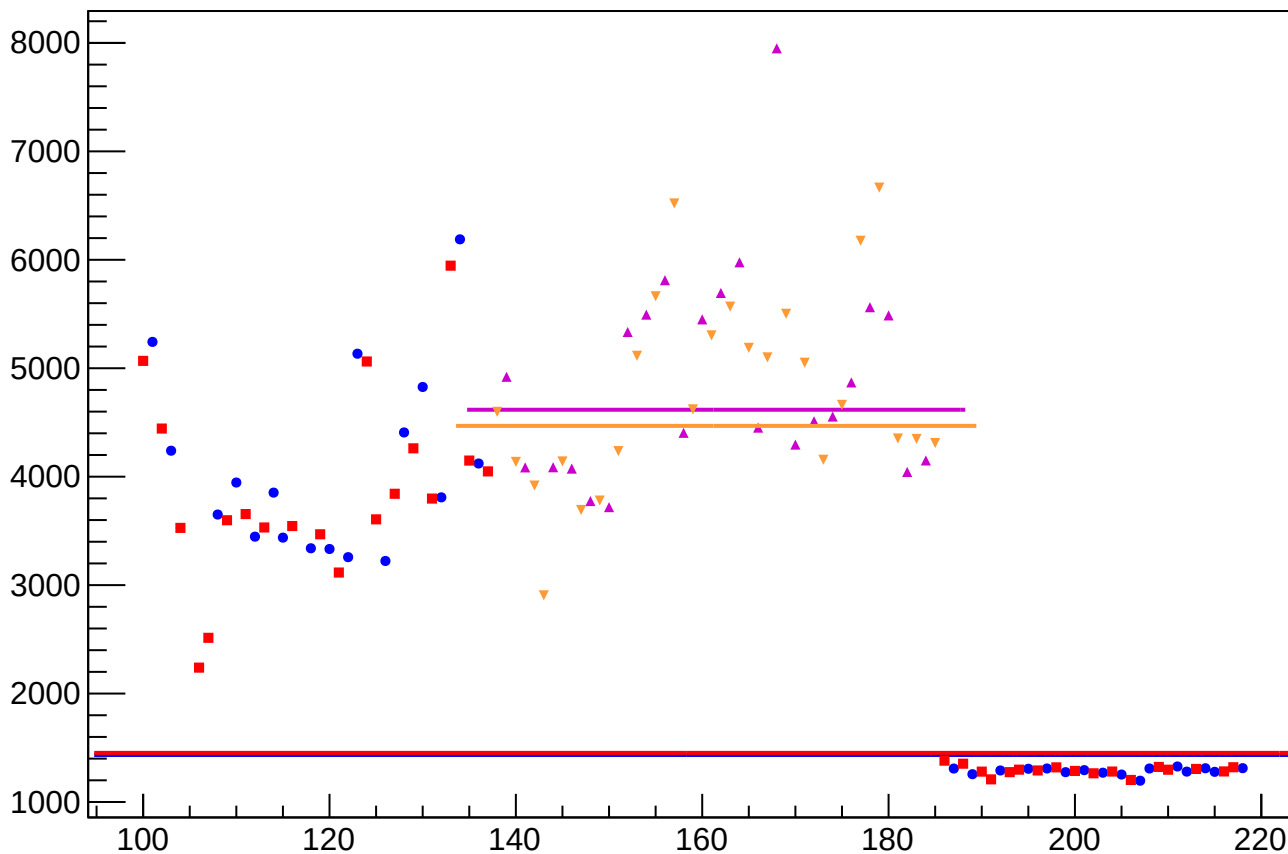
Right: -200.954 ± 259.829 χ^2/NDF : 58.2/68

In: -593.570 ± 349.337 χ^2/NDF : 40.8/55

Out: 222.533 ± 347.290 χ^2/NDF : 57.7/60

All: -183.121 ± 246.292 χ^2/NDF : 101.2/116

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1433.545 $\pm$ 0.260 χ^2 /NDF: 5707264.1/32

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF: 1380601.0/24

Right Out: 1453.096 $\pm$ 0.260 χ^2 /NDF: 5527340.8/35

Left In: 4617.293 $\pm$ 0.794 χ^2 /NDF: 999599.8/22

Left: 4538.970 $\pm$ 0.547 χ^2 /NDF: 2398663.8/47

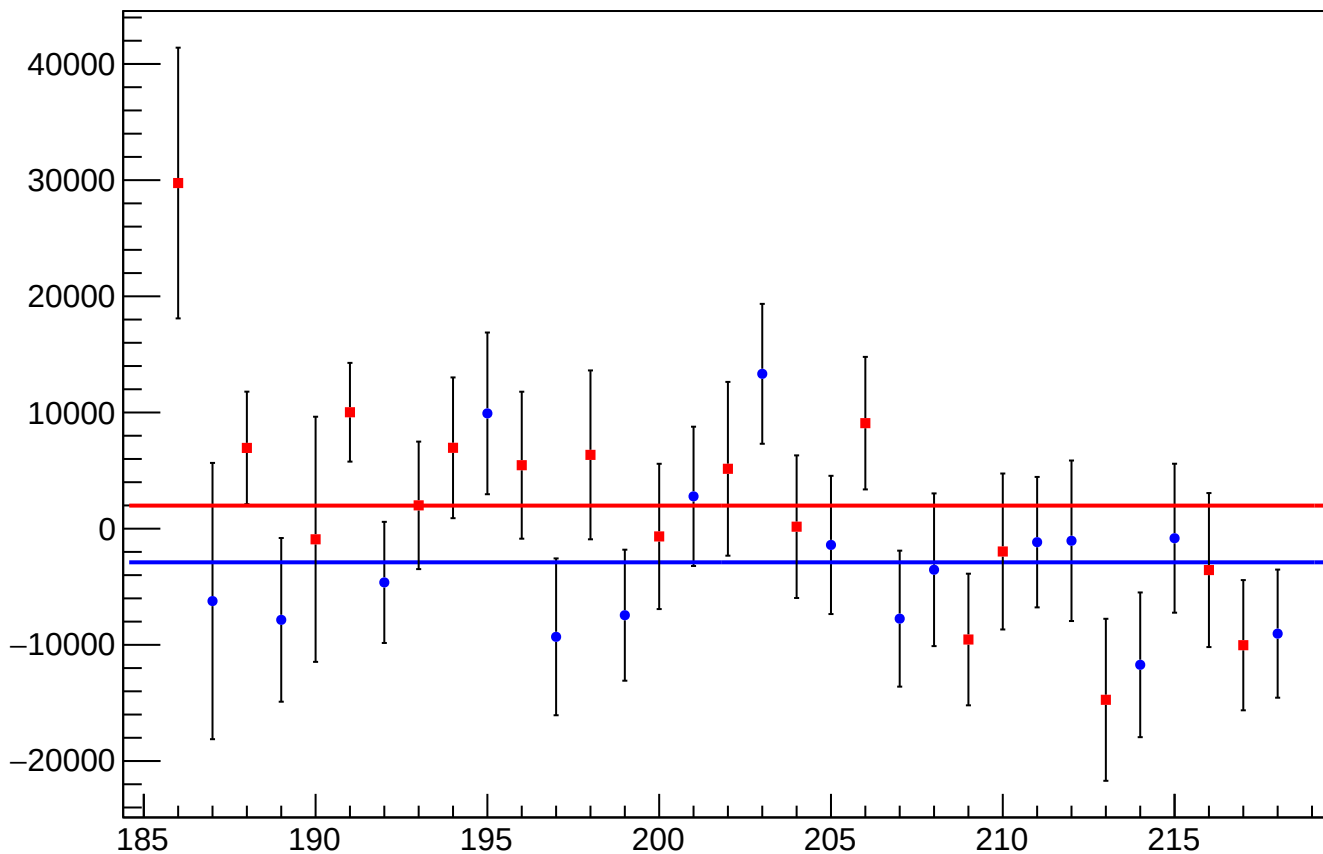
Right: 1443.332 $\pm$ 0.184 χ^2 /NDF: 11237437.7/68

In: 1741.354 $\pm$ 0.247 χ^2 /NDF: 21214700.7/55

Out: 1773.047 $\pm$ 0.245 χ^2 /NDF: 21225585.0/60

All: 1757.303 $\pm$ 0.174 χ^2 /NDF: 42448569.2/113

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -2895.867+/-1562.239 χ^2/NDF : 18.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1985.922+/-1494.050 χ^2/NDF : 29.2/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

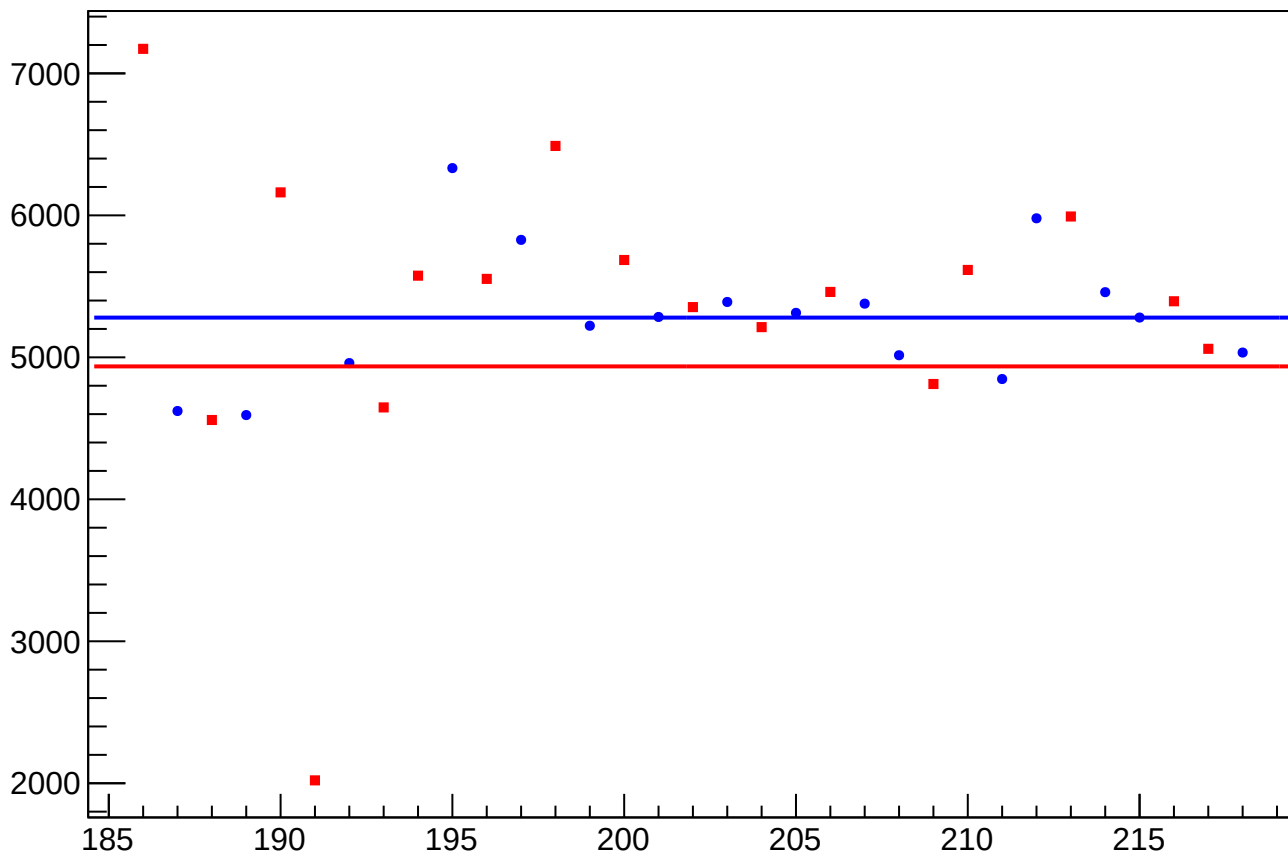
Right: -346.110+/-1079.755 χ^2/NDF : 52.4/32

In: -2895.867+/-1562.239 χ^2/NDF : 18.1/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -346.110+/-1079.755 χ^2/NDF : 52.4/32

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5279.854+/-1.105 χ^2/NDF : 134370.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4936.112+/-1.056 χ^2/NDF : 1326228.1/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

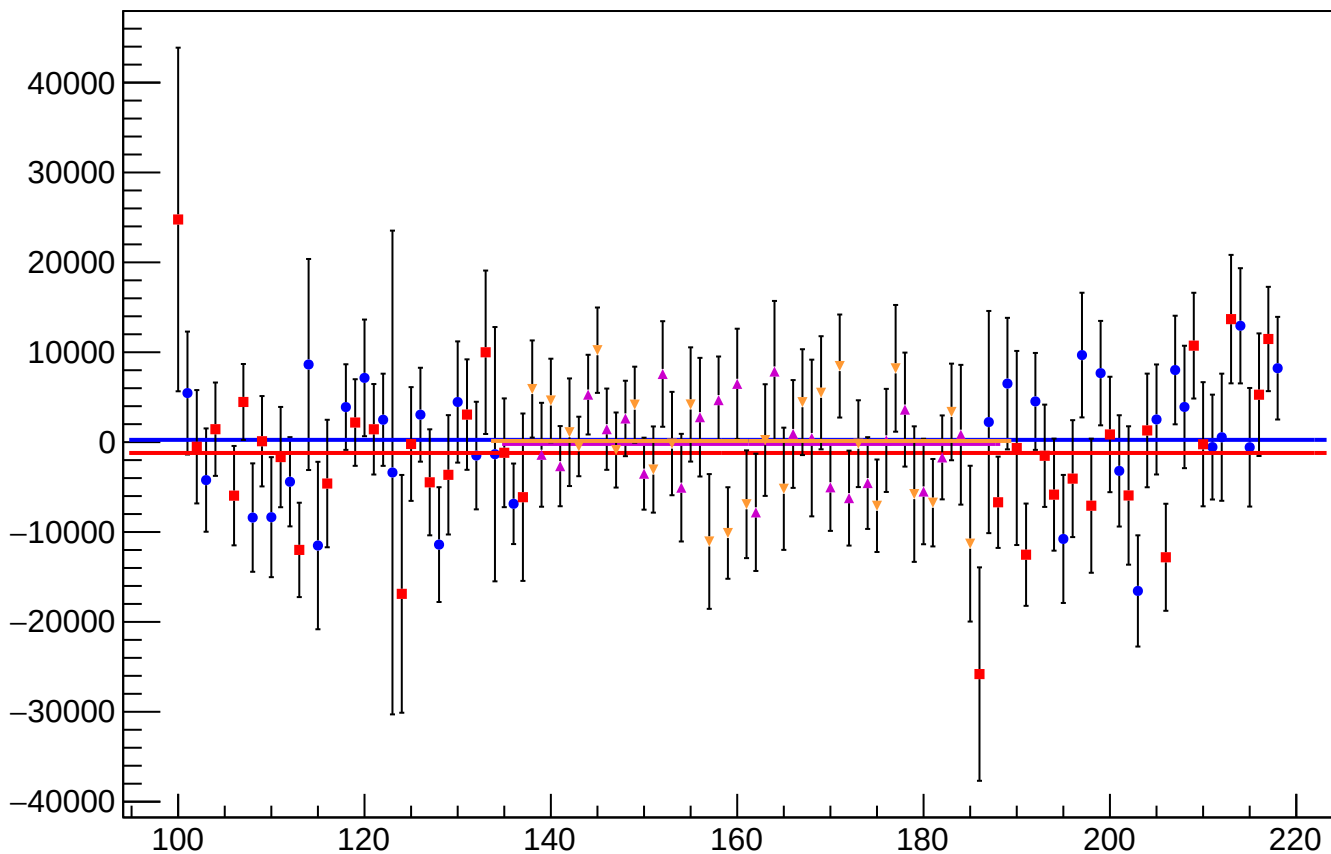
Right: 5100.318+/-0.764 χ^2/NDF : 1511172.1/32

In: 5279.854+/-1.105 χ^2/NDF : 134370.7/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5100.318+/-0.764 χ^2/NDF : 1511172.1/32

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: 252.949 ± 1104.892 $\chi^2/\text{NDF}: 39.4/32$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -1205.018 ± 1041.277 $\chi^2/\text{NDF}: 43.5/35$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

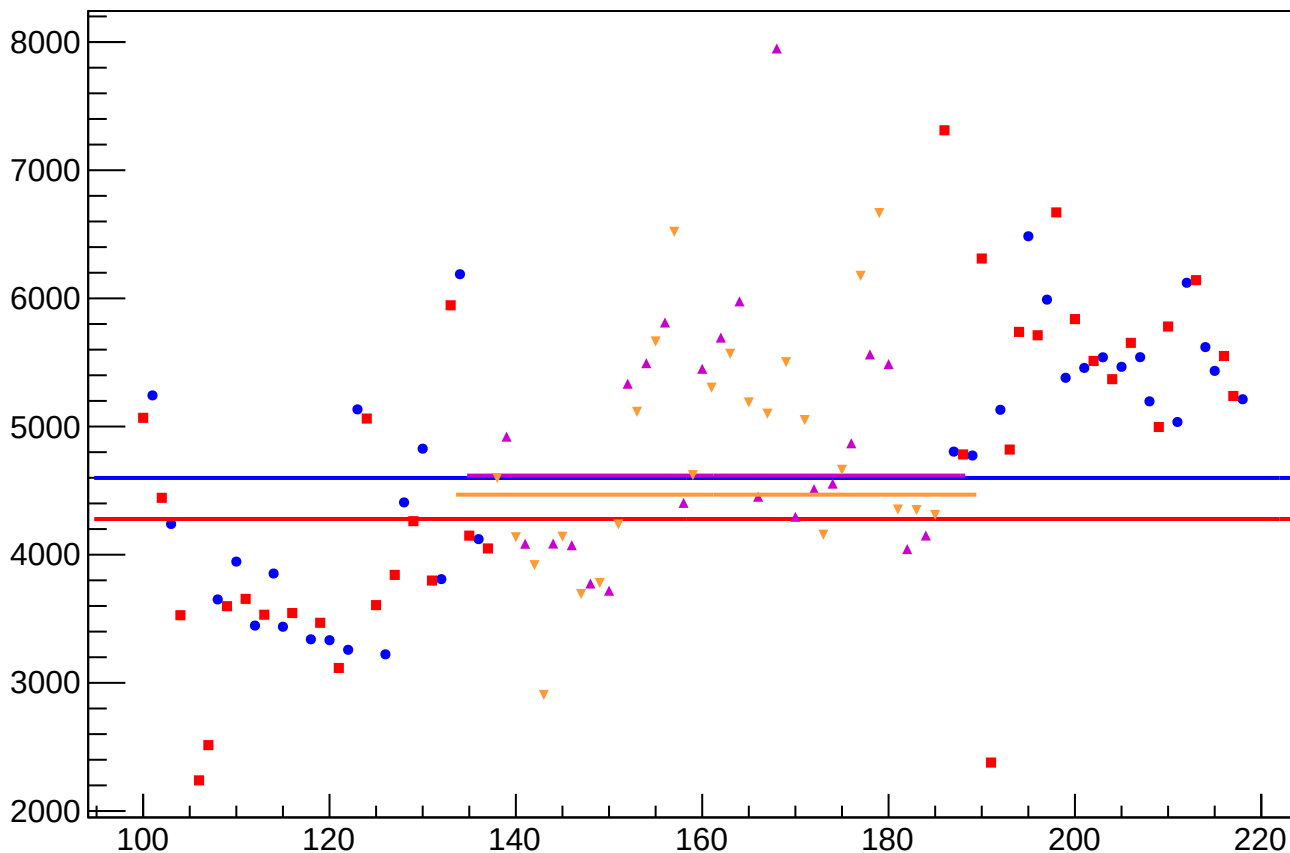
Right: -519.212 ± 757.786 $\chi^2/\text{NDF}: 83.8/68$

In: 30.167 ± 787.773 $\chi^2/\text{NDF}: 54.2/55$

Out: -551.837 ± 744.725 $\chi^2/\text{NDF}: 72.4/60$

All: -277.170 ± 541.179 $\chi^2/\text{NDF}: 126.9/116$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4598.813 $\pm$ 0.781 χ^2/NDF : 1497143.1/32

Left Out: 4468.520 $\pm$ 0.753 χ^2/NDF : 1380601.0/24

Right Out: 4278.663 $\pm$ 0.732 χ^2/NDF : 2752078.1/35

Left In: 4617.293 $\pm$ 0.794 χ^2/NDF : 999599.8/22

Left: 4538.970 $\pm$ 0.547 χ^2/NDF : 2398663.8/47

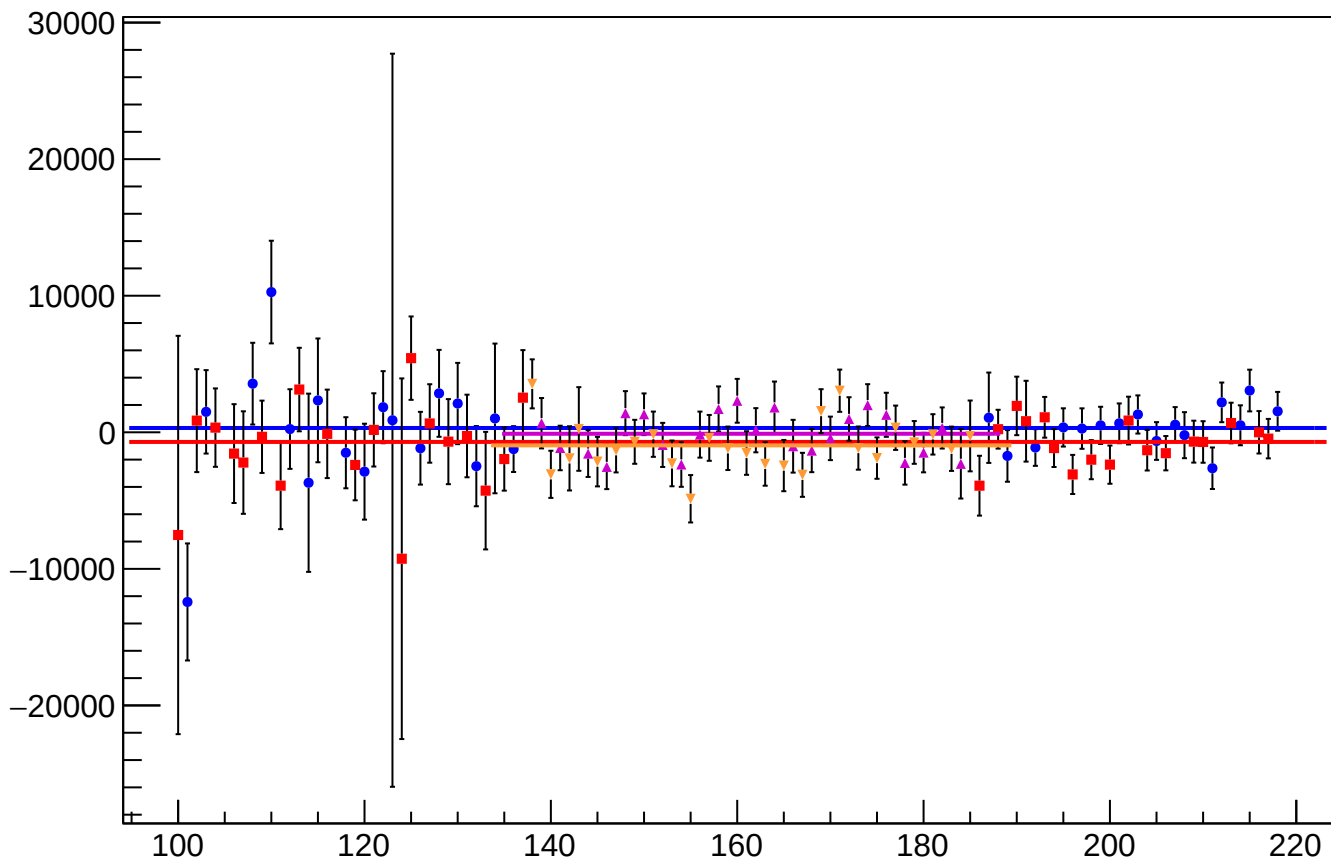
Right: 4428.423 $\pm$ 0.534 χ^2/NDF : 4338592.8/68

In: 4607.898 $\pm$ 0.557 χ^2/NDF : 2497018.1/55

Out: 4370.908 $\pm$ 0.525 χ^2/NDF : 4165324.2/60

All: 4482.435 $\pm$ 0.382 χ^2/NDF : 6758168.5/11

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 315.840 ± 334.177 χ^2/NDF : 35.4/32

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -705.538 ± 334.219 χ^2/NDF : 23.9/35

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

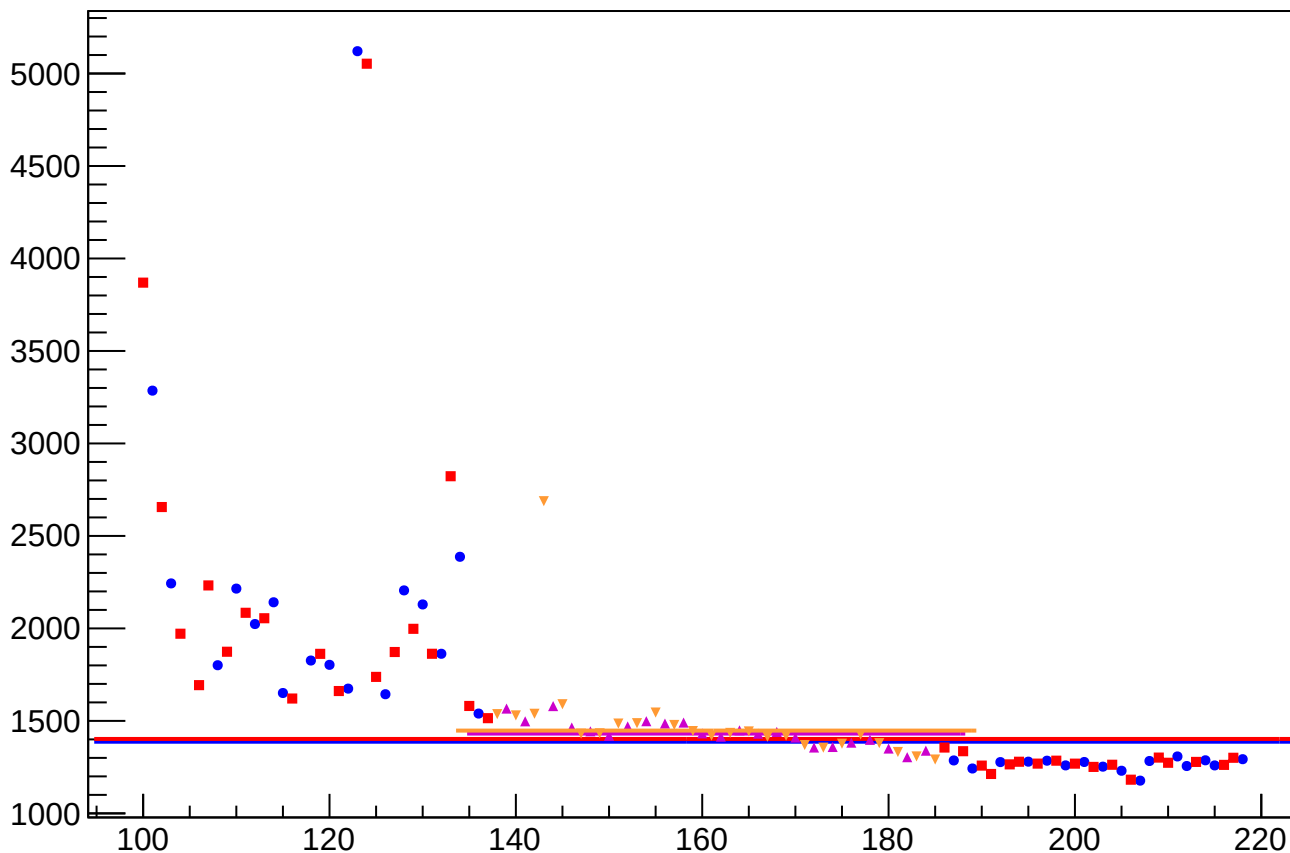
Right: -194.784 ± 236.314 χ^2/NDF : 64.0/68

In: 110.087 ± 239.582 χ^2/NDF : 55.7/55

Out: -829.993 ± 238.172 χ^2/NDF : 52.7/60

All: -362.727 ± 168.910 χ^2/NDF : 116.1/116

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1387.476+/-0.236 χ^2/NDF : 1608161.1/32

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1402.348+/-0.236 χ^2/NDF : 1648512.3/35

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

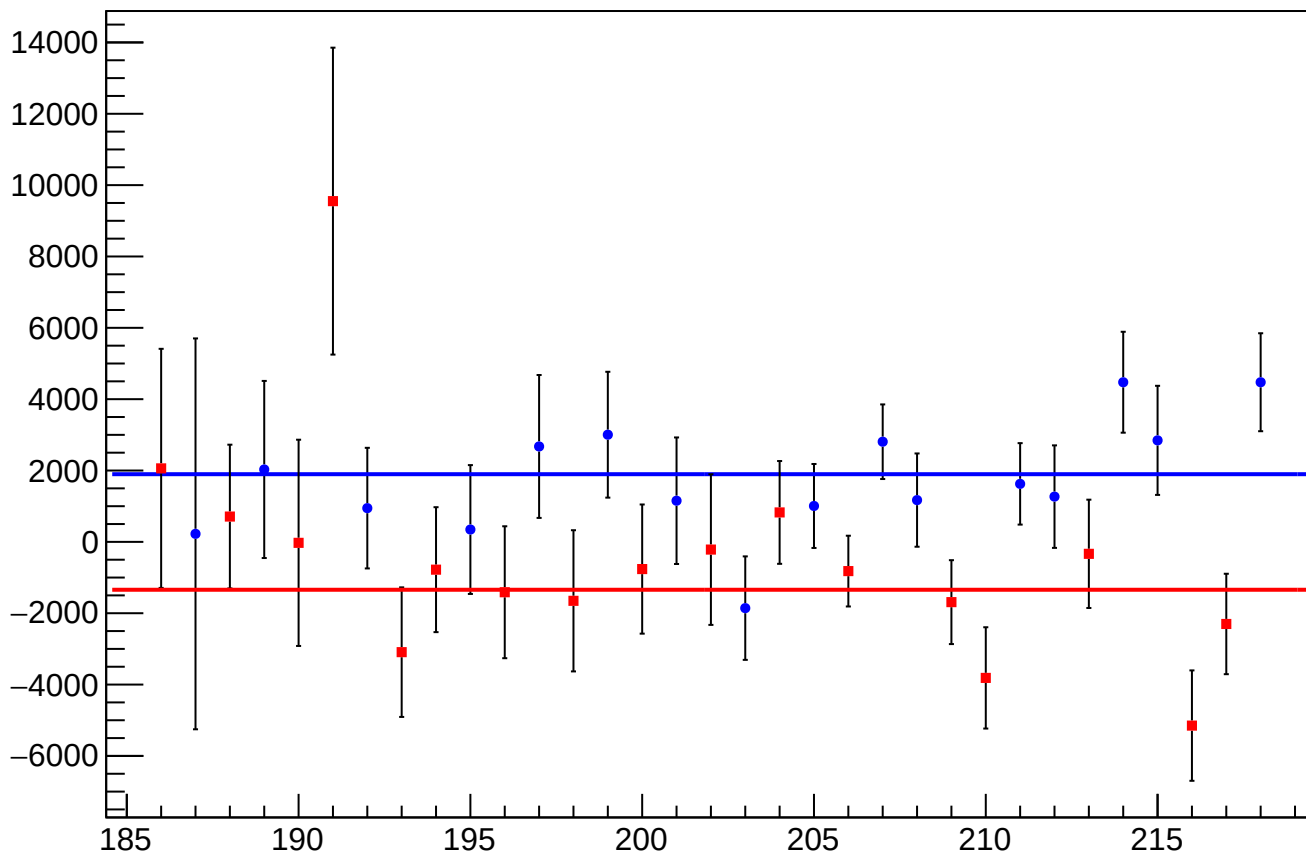
Right: 1394.911+/-0.167 χ^2/NDF : 3258653.6/68

In: 1408.851+/-0.169 χ^2/NDF : 1700126.7/55

Out: 1424.597+/-0.168 χ^2/NDF : 2085775.8/60

All: 1416.770+/-0.119 χ^2/NDF : 3790247.7/119

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1897.098+/-374.050 χ^2/NDF : 17.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -1342.227+/-398.729 χ^2/NDF : 22.8/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

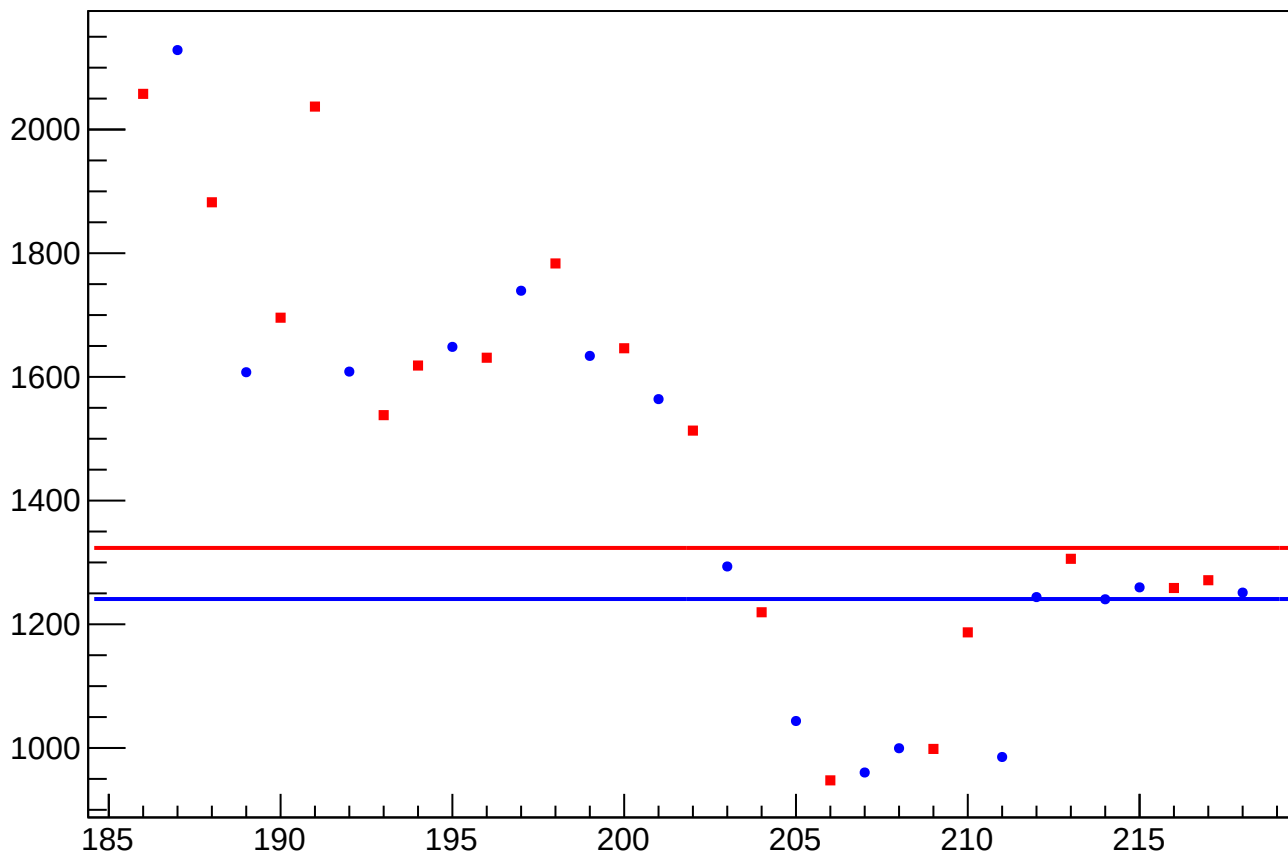
Right: 380.779+/-272.801 χ^2/NDF : 75.5/32

In: 1897.098+/-374.050 χ^2/NDF : 17.7/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 380.779+/-272.801 χ^2/NDF : 75.5/32

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1240.854+/-0.264 χ^2/NDF : 953746.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1323.459+/-0.282 χ^2/NDF : 1141386.5/16

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

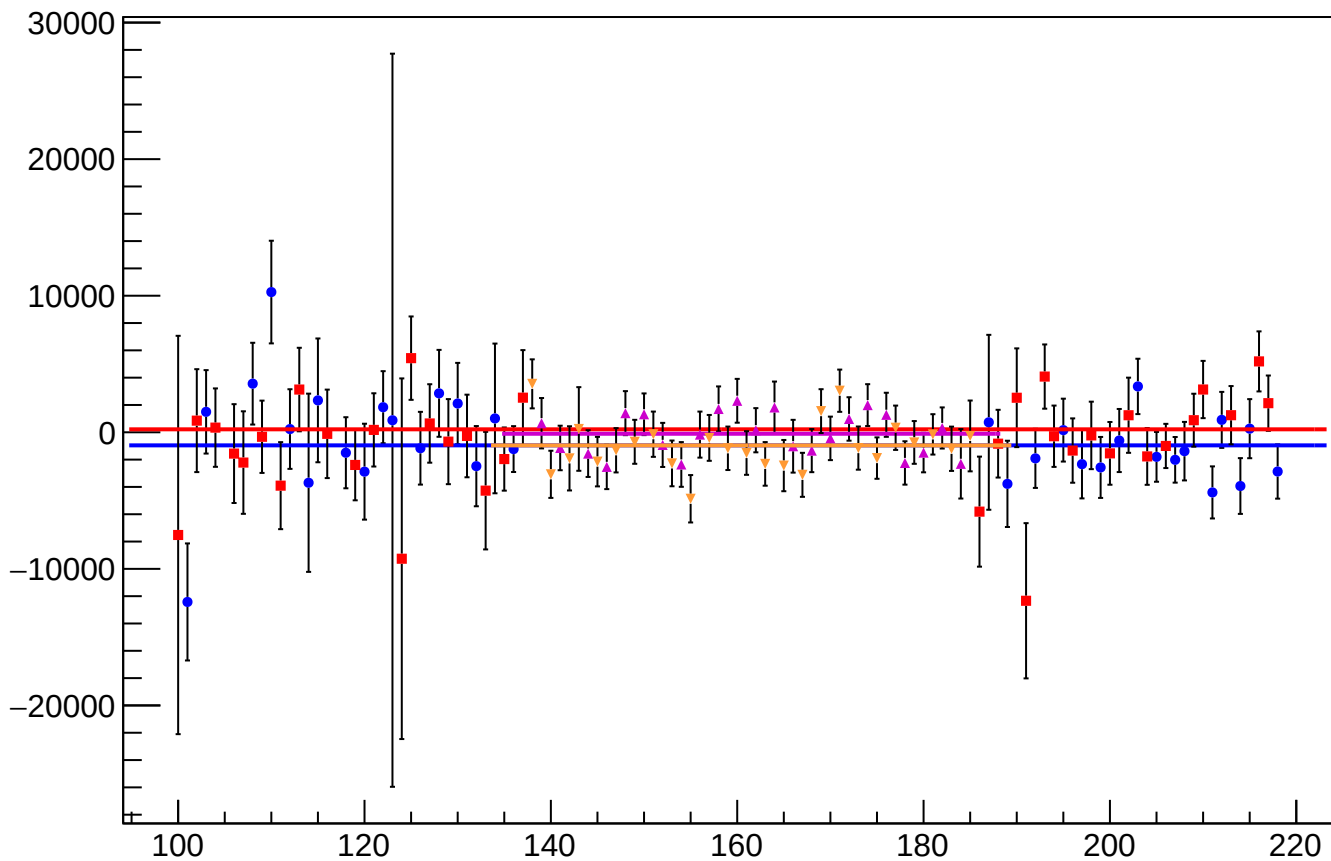
Right: 1279.521+/-0.193 χ^2/NDF : 2140791.7/32

In: 1240.854+/-0.264 χ^2/NDF : 953746.5/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1279.521+/-0.193 χ^2/NDF : 2140791.7/32

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -956.878+/-439.447 χ^2/NDF : 39.1/32

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: 217.658+/-447.233 χ^2/NDF : 32.0/35

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

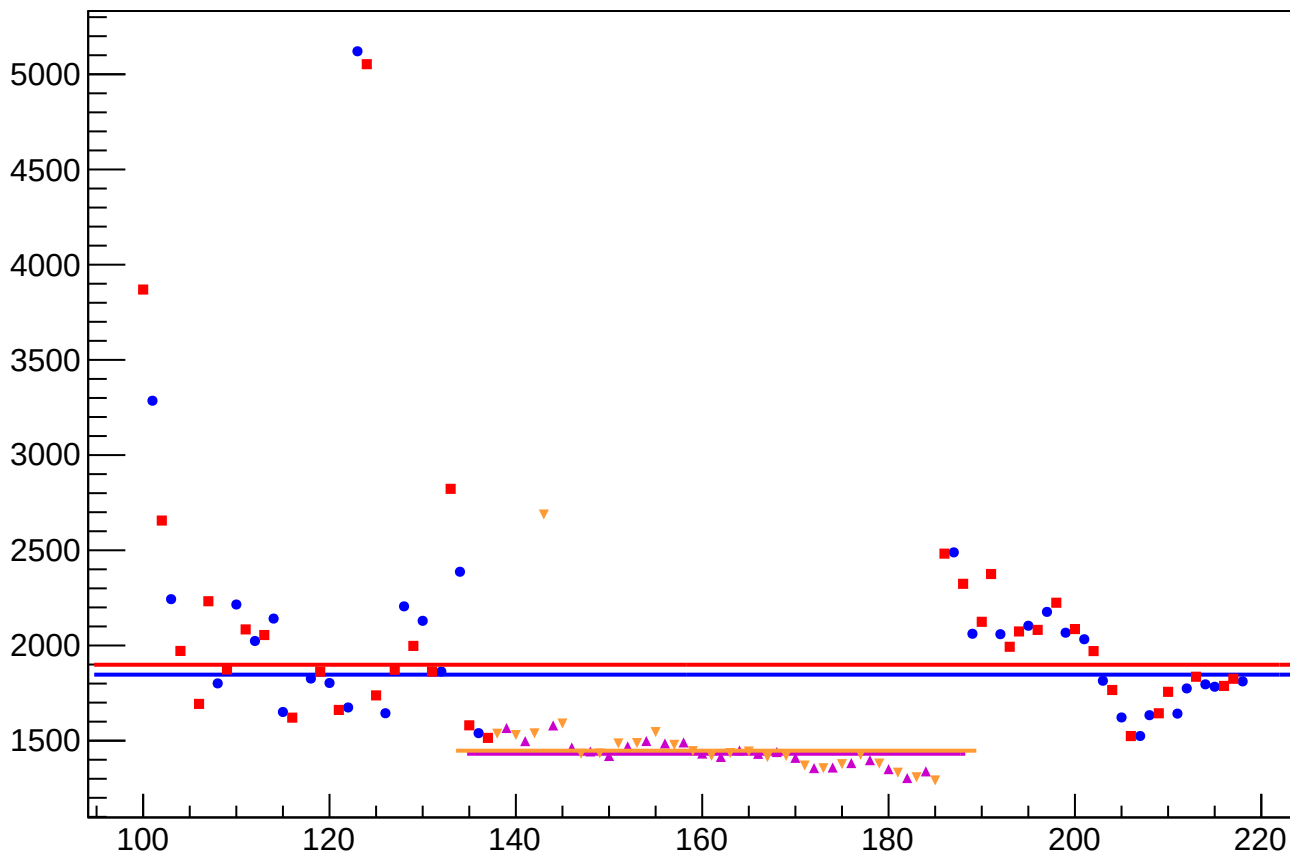
Right: -379.923+/-313.453 χ^2/NDF : 74.6/68

In: -429.838+/-270.712 χ^2/NDF : 60.8/55

Out: -528.465+/-270.411 χ^2/NDF : 64.9/60

All: -479.207+/-191.316 χ^2/NDF : 125.8/116

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1846.838 $\pm$ 0.311 χ^2 /NDF: 768869.4/32

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1898.863 $\pm$ 0.316 χ^2 /NDF: 828329.8/35

Left In: 1431.456 $\pm$ 0.243 χ^2 /NDF: 75130.4/22

Left: 1439.603 $\pm$ 0.171 χ^2 /NDF: 496606.4/47

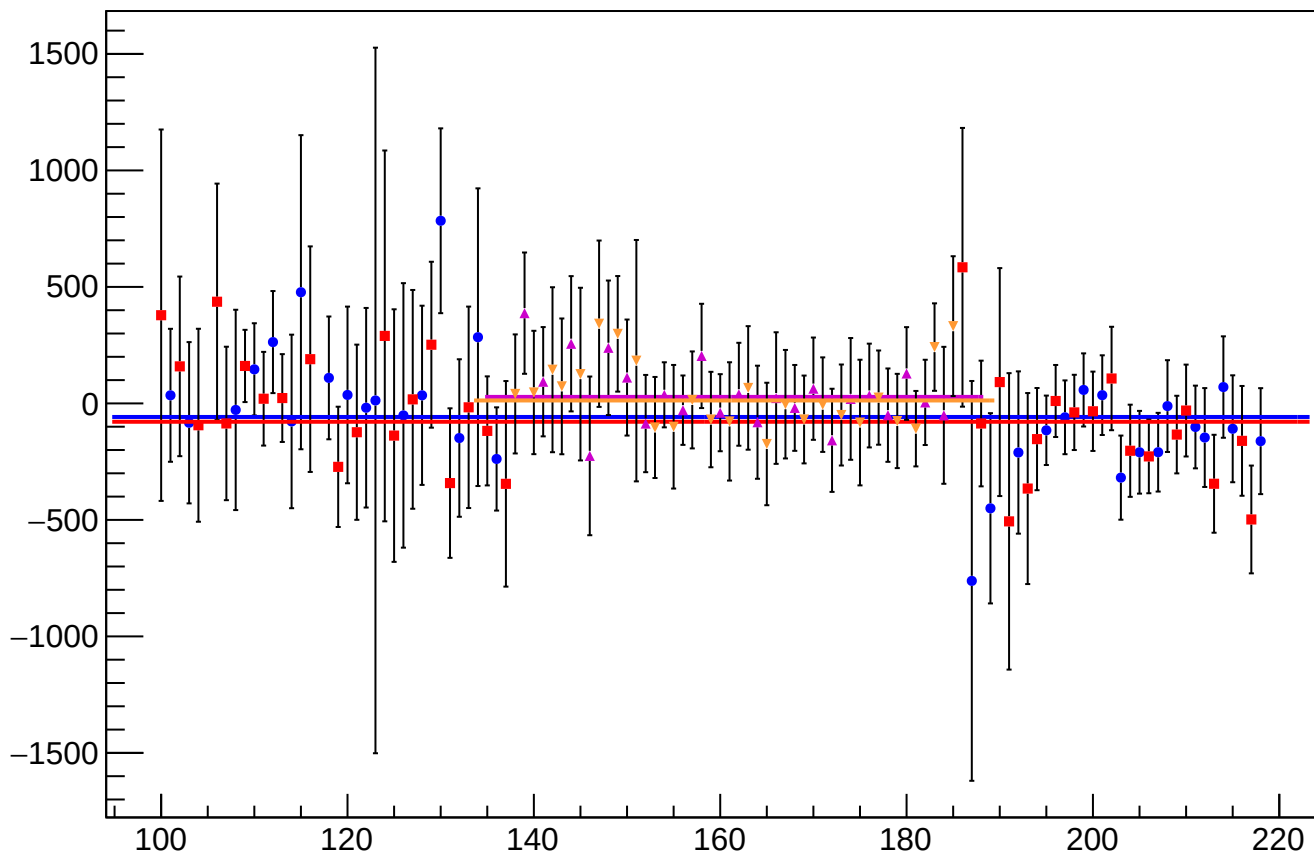
Right: 1872.394 $\pm$ 0.222 χ^2 /NDF: 1610969.1/68

In: 1589.089 $\pm$ 0.191 χ^2 /NDF: 1952823.2/55

Out: 1612.545 $\pm$ 0.191 χ^2 /NDF: 2539671.1/60

All: 1600.830 $\pm$ 0.135 χ^2 /NDF: 4500009.7/111

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.199 ± 41.930 $\chi^2/\text{NDF}: 17.3/32$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -78.749 ± 41.682 $\chi^2/\text{NDF}: 17.8/35$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

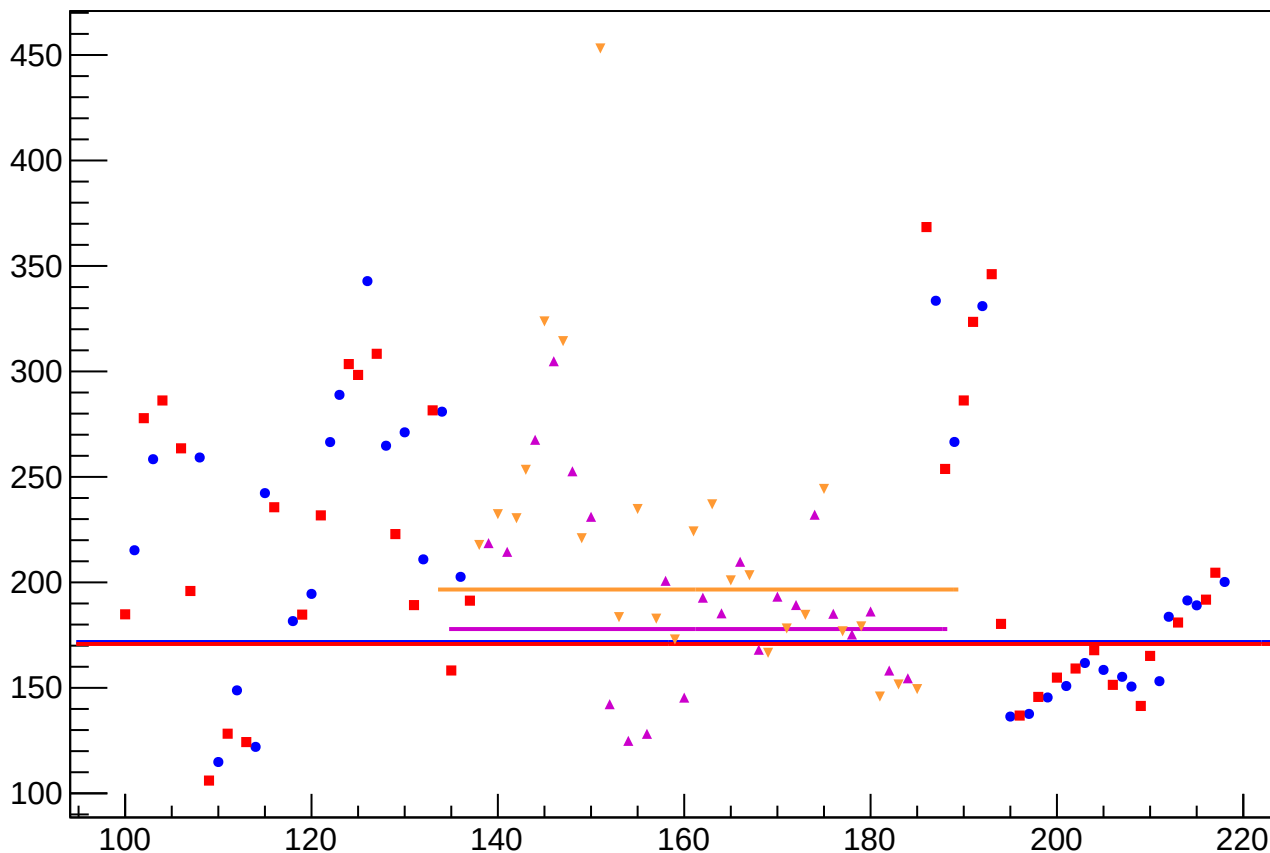
Right: -68.535 ± 29.561 $\chi^2/\text{NDF}: 35.2/68$

In: -17.720 ± 30.525 $\chi^2/\text{NDF}: 25.8/55$

Out: -38.987 ± 31.326 $\chi^2/\text{NDF}: 27.6/60$

All: -28.078 ± 21.862 $\chi^2/\text{NDF}: 53.6/116$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.724 $\pm$ 0.030 χ^2 /NDF: 2202762.0/32

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 170.810 $\pm$ 0.029 χ^2 /NDF: 2901013.0/35

Left In: 177.878 $\pm$ 0.031 χ^2 /NDF:1644086.7/22

Left: 186.646 $\pm$ 0.023 χ^2 /NDF: 3603390.3/47

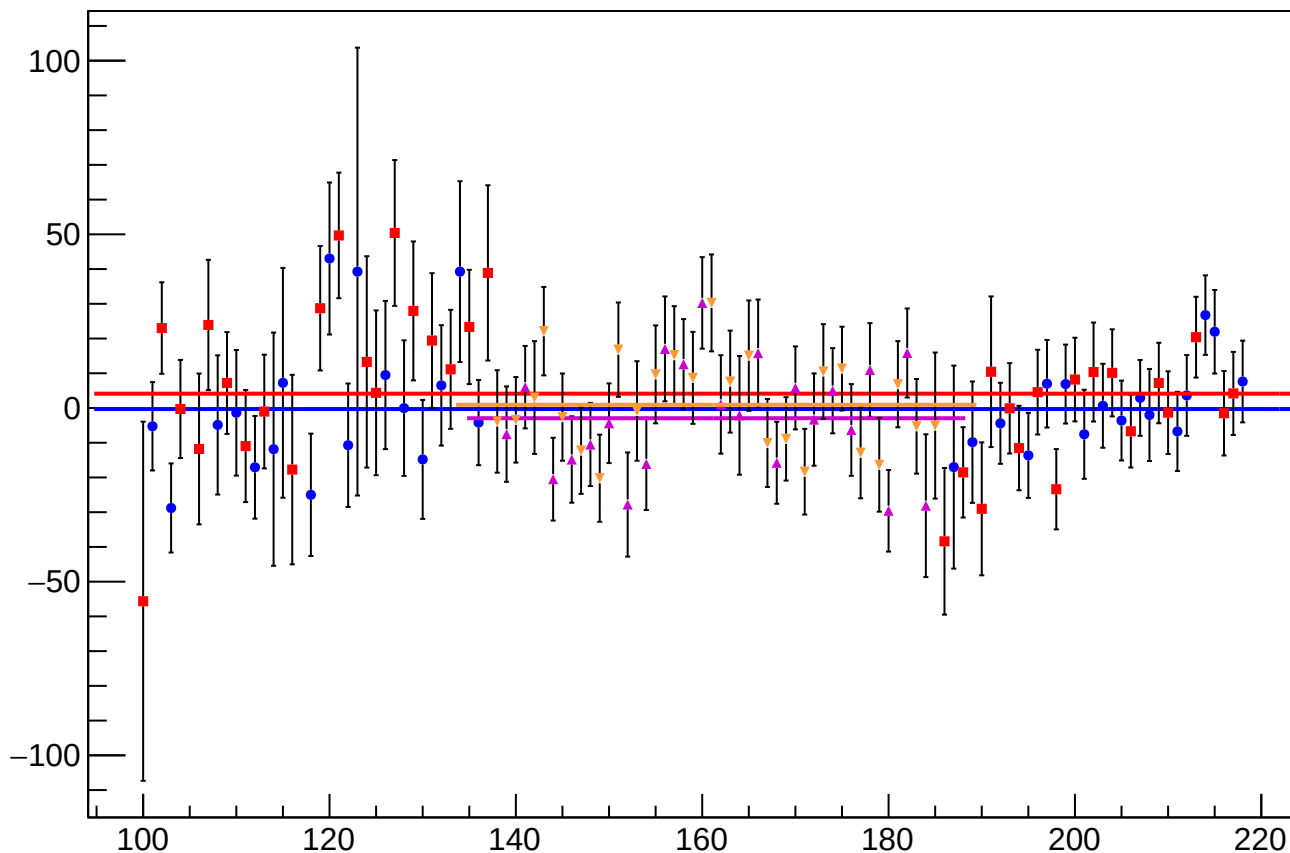
Right: 171.264 $\pm$ 0.021 χ^2 /NDF: 5104253.2/68

In: 174.617 $\pm$ 0.022 χ^2 /NDF:3867095.3/55

Out: 182.042 $\pm$ 0.022 χ^2 /NDF:5028234.3/60

All: 178.233 $\pm$ 0.015 χ^2 /NDF: 8952971.8/116

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.302 ± 2.528 $\chi^2/\text{NDF}: 29.8/32$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 4.127 ± 2.518 $\chi^2/\text{NDF}: 47.1/35$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

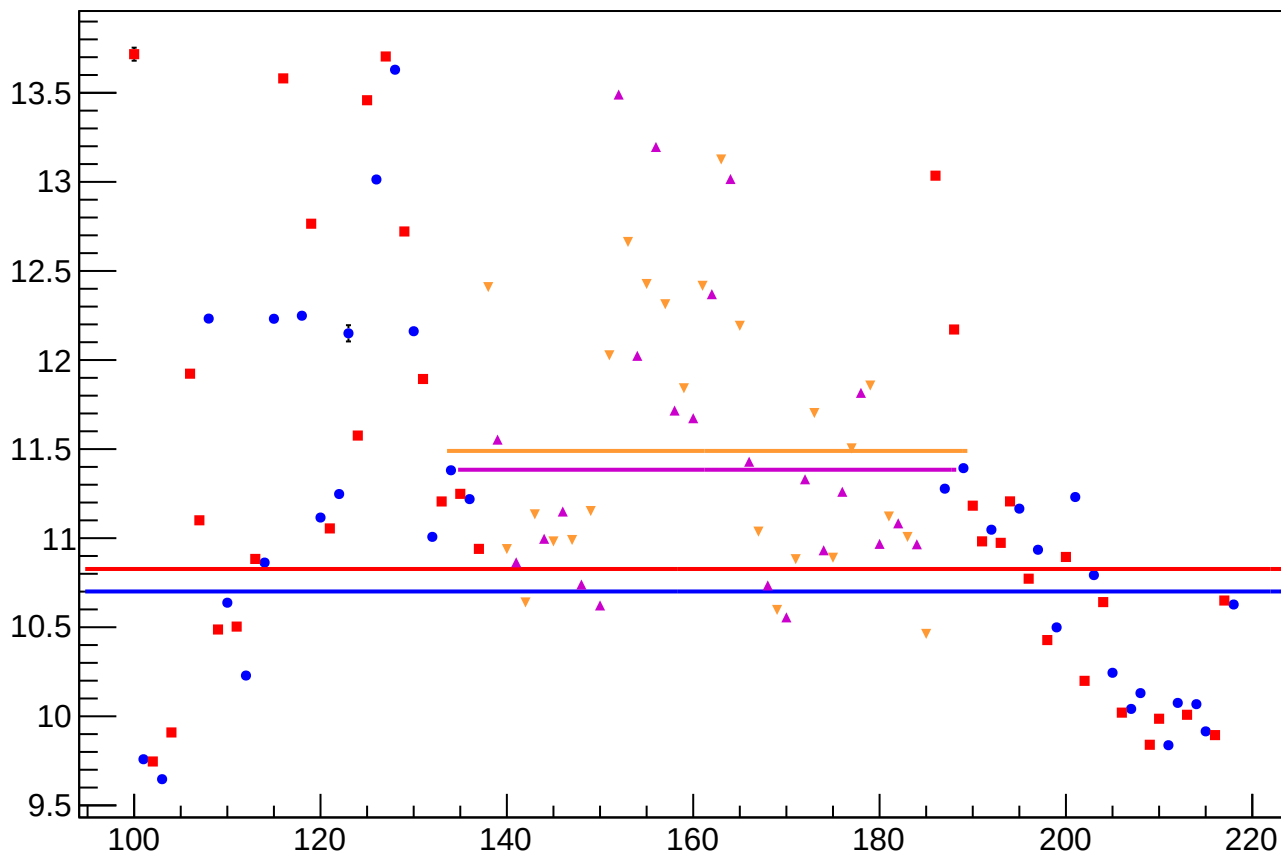
Right: 1.921 ± 1.784 $\chi^2/\text{NDF}: 78.4/68$

In: -1.513 ± 1.859 $\chi^2/\text{NDF}: 61.3/55$

Out: 2.633 ± 1.840 $\chi^2/\text{NDF}: 71.9/60$

All: 0.581 ± 1.308 $\chi^2/\text{NDF}: 135.7/116$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.701 $\pm$ 0.002 χ^2 /NDF: 209763.0/32

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 10.827 $\pm$ 0.002 χ^2 /NDF: 280938.9/35

Left In: 11.384 $\pm$ 0.002 χ^2 /NDF:149799.6/22

Left: 11.438 $\pm$ 0.001 χ^2 /NDF: 283707.5/47

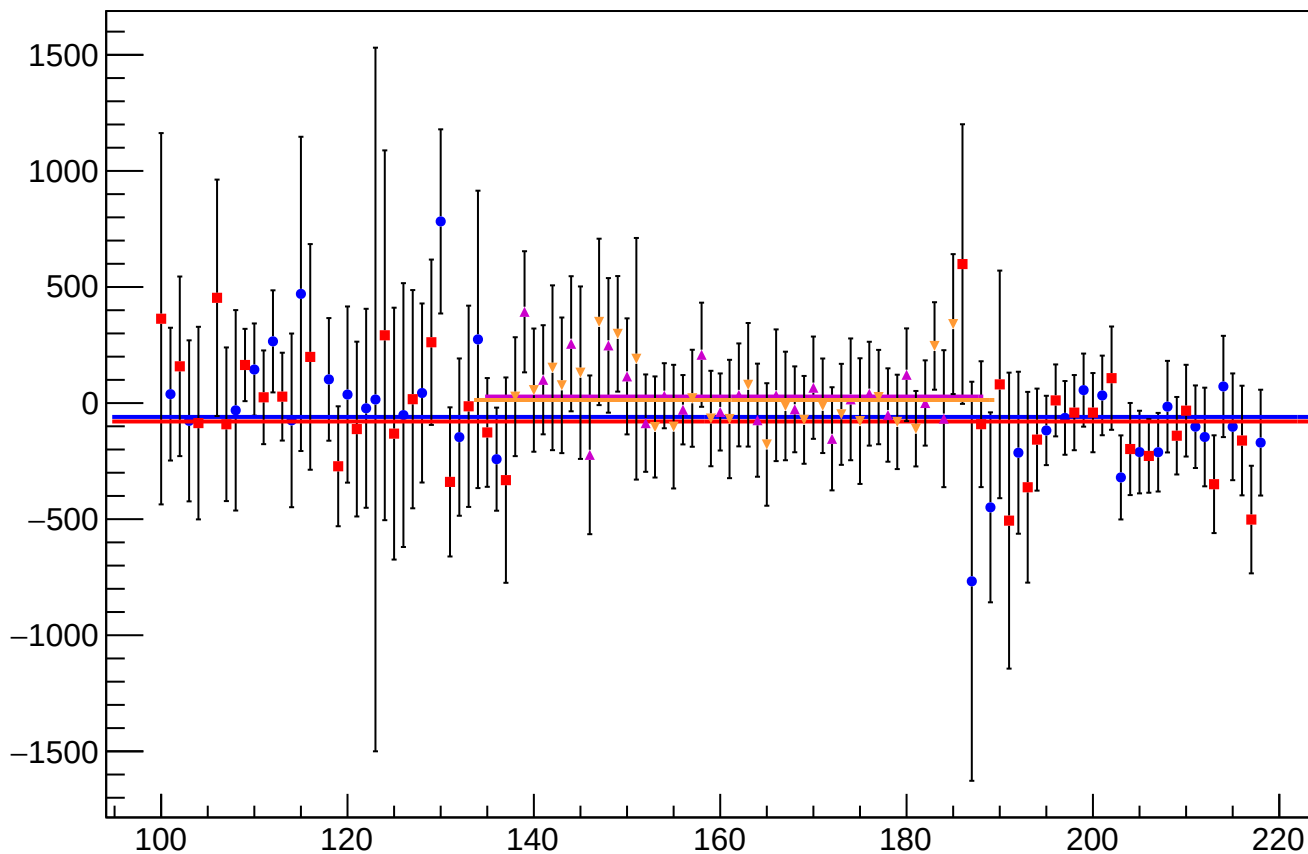
Right: 10.764 $\pm$ 0.001 χ^2 /NDF: 493205.9/68

In: 11.014 $\pm$ 0.001 χ^2 /NDF:426636.6/55

Out: 11.136 $\pm$ 0.001 χ^2 /NDF:477888.3/60

All: 11.076 $\pm$ 0.001 χ^2 /NDF: 908836.3/116

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.632 ± 42.031 χ^2/NDF : 17.3/32

Left Out: 13.323 ± 47.662 χ^2/NDF : 7.9/24

Right Out: -79.249 ± 41.789 χ^2/NDF : 18.0/35

Left In: 28.050 ± 44.681 χ^2/NDF : 6.6/22

Left: 21.161 ± 32.597 χ^2/NDF : 14.6/47

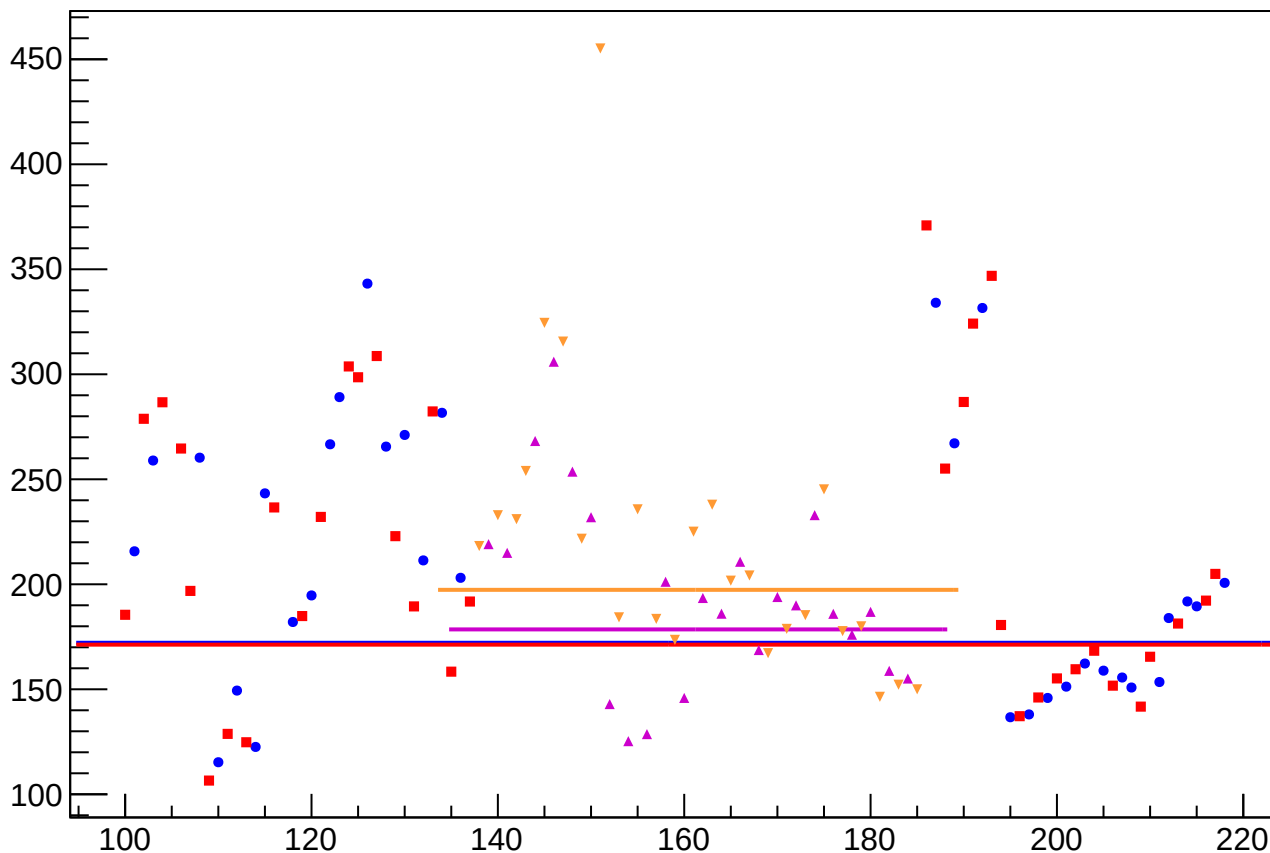
Right: -69.497 ± 29.634 χ^2/NDF : 35.4/68

In: -18.469 ± 30.614 χ^2/NDF : 26.0/55

Out: -39.014 ± 31.422 χ^2/NDF : 28.0/60

All: -28.474 ± 21.928 χ^2/NDF : 54.2/116

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.148 $\pm$ 0.030 χ^2 /NDF: 2197674.8/32

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 171.258 $\pm$ 0.030 χ^2 /NDF: 2897085.8/35

Left In: 178.512 $\pm$ 0.032 χ^2 /NDF:1642304.1/22

Left: 187.326 $\pm$ 0.023 χ^2 /NDF: 3599509.2/47

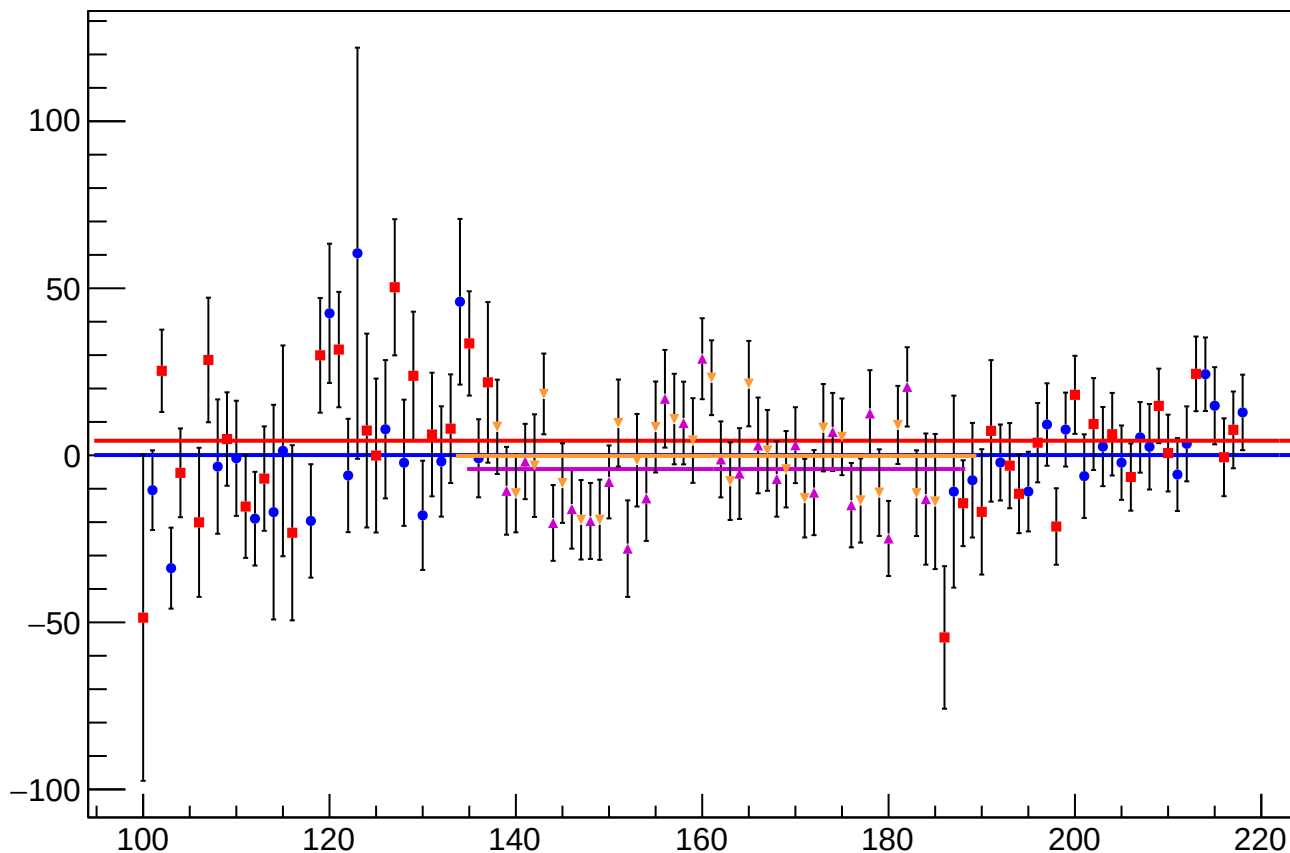
Right: 171.701 $\pm$ 0.021 χ^2 /NDF: 5095211.0/68

In: 175.136 $\pm$ 0.022 χ^2 /NDF:3861505.6/55

Out: 182.601 $\pm$ 0.022 χ^2 /NDF:5026902.7/60

All: 178.771 $\pm$ 0.016 χ^2 /NDF: 8946322.3/116

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.080 ± 2.437 $\chi^2/\text{NDF}: 33.1/32$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 4.376 ± 2.434 $\chi^2/\text{NDF}: 51.0/35$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

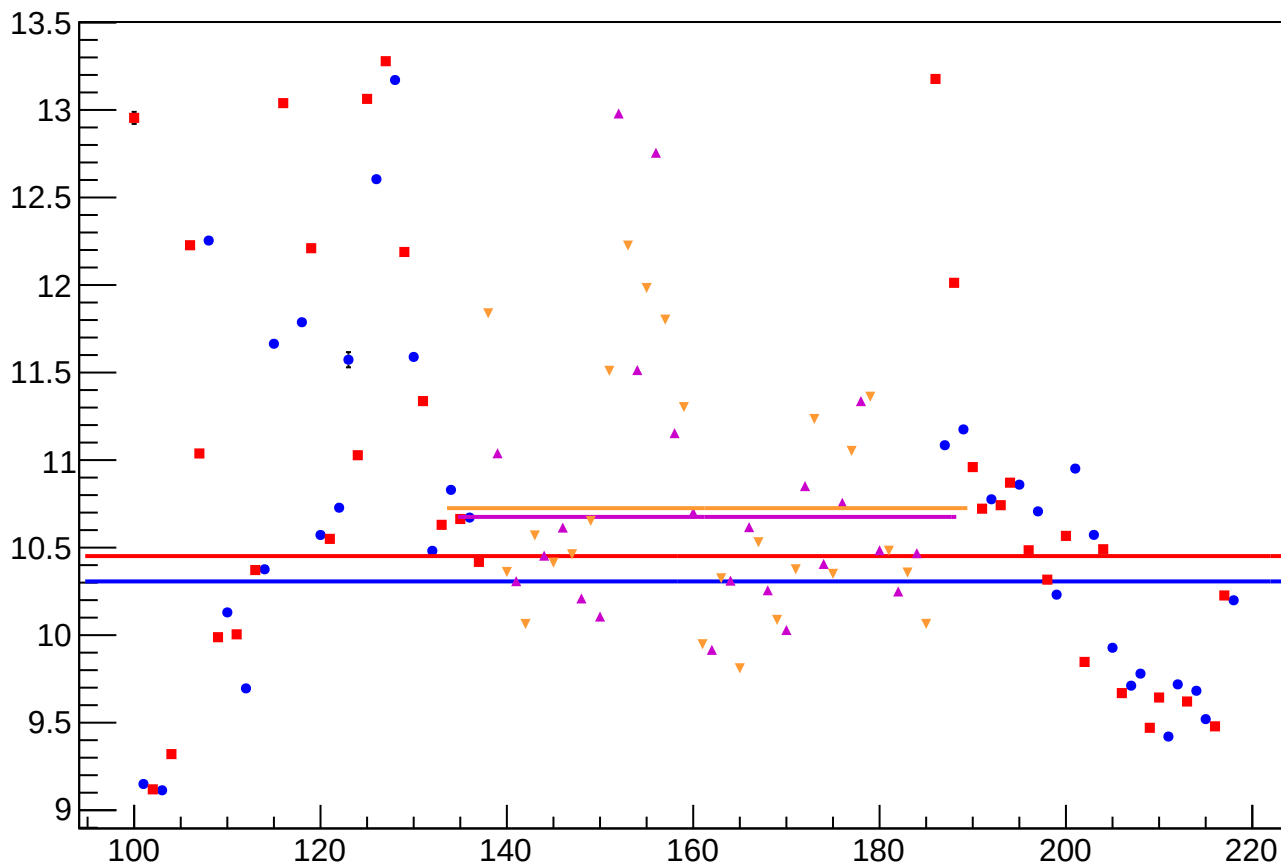
Right: 2.231 ± 1.722 $\chi^2/\text{NDF}: 85.7/68$

In: -1.896 ± 1.771 $\chi^2/\text{NDF}: 66.1/55$

Out: 2.182 ± 1.751 $\chi^2/\text{NDF}: 77.1/60$

All: 0.166 ± 1.245 $\chi^2/\text{NDF}: 145.8/116$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.307 $\pm$ 0.002 χ^2 /NDF: 237705.7/32

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.452 $\pm$ 0.002 χ^2 /NDF: 323797.2/35

Left In: 10.675 $\pm$ 0.002 χ^2 /NDF:145938.2/22

Left: 10.701 $\pm$ 0.001 χ^2 /NDF: 278494.3/47

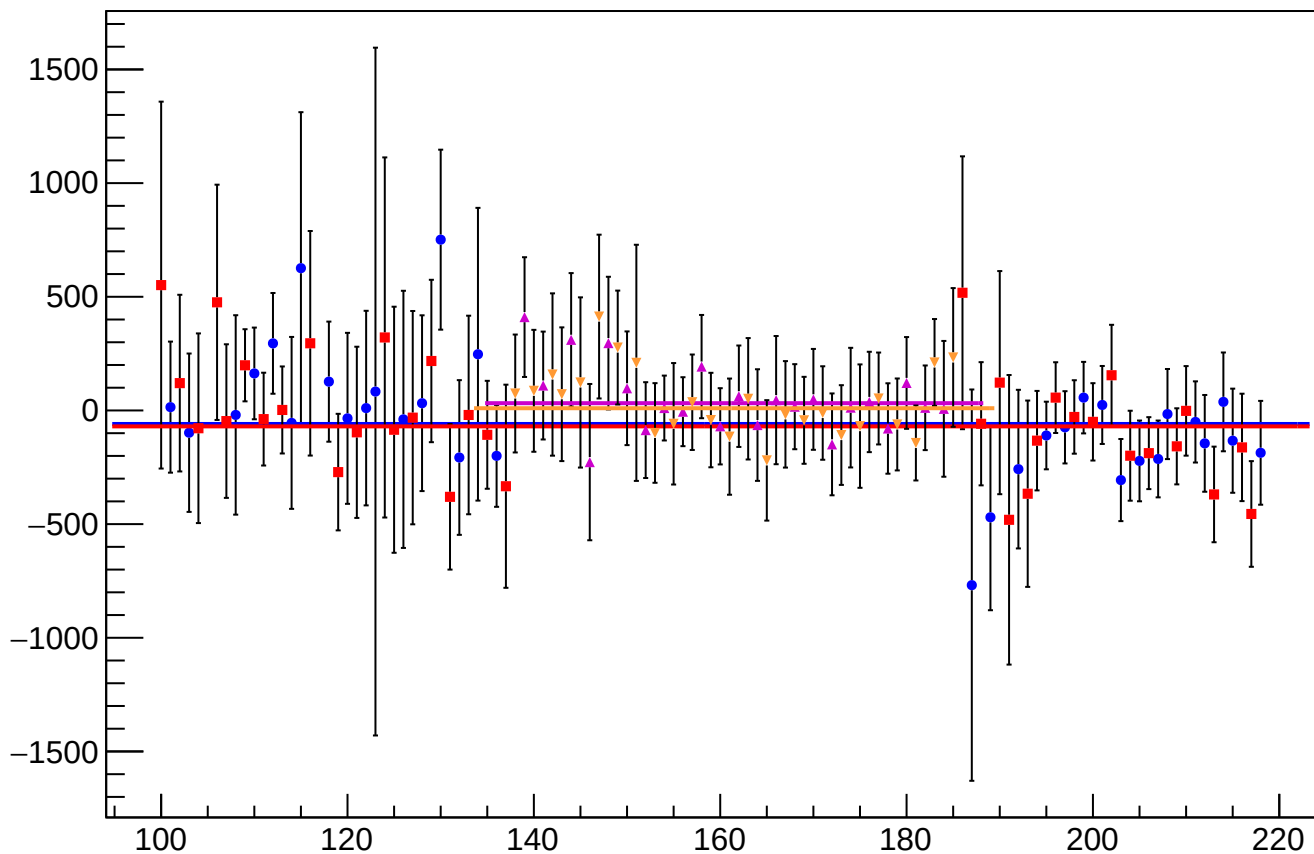
Right: 10.379 $\pm$ 0.001 χ^2 /NDF: 565033.6/68

In: 10.481 $\pm$ 0.001 χ^2 /NDF:405236.8/55

Out: 10.584 $\pm$ 0.001 χ^2 /NDF:468190.0/60

All: 10.533 $\pm$ 0.001 χ^2 /NDF: 876840.9/116

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.481 ± 42.091 $\chi^2/\text{NDF}: 17.7/32$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -70.101 ± 41.910 $\chi^2/\text{NDF}: 18.6/35$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

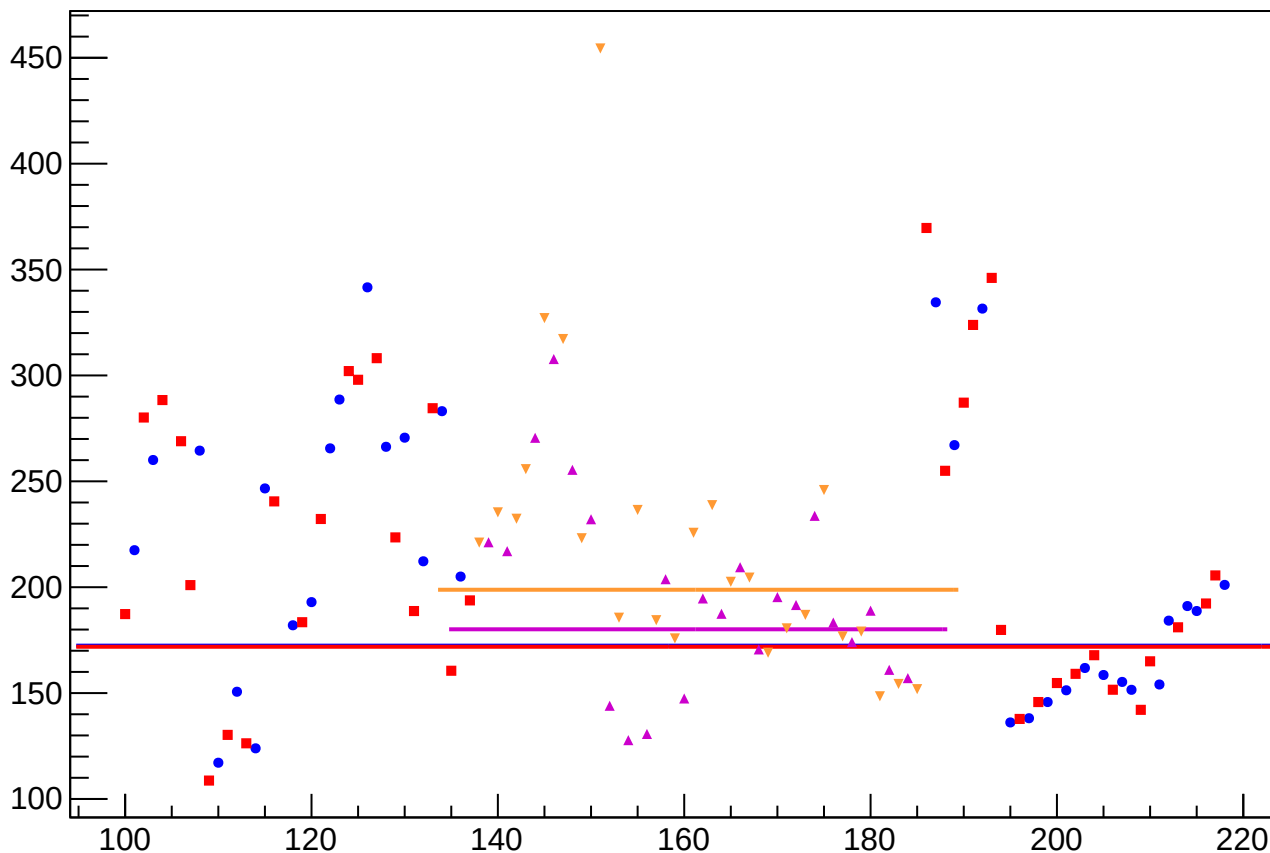
Right: -64.814 ± 29.699 $\chi^2/\text{NDF}: 36.3/68$

In: -16.837 ± 30.752 $\chi^2/\text{NDF}: 27.1/55$

Out: -35.520 ± 31.564 $\chi^2/\text{NDF}: 27.7/60$

All: -25.935 ± 22.026 $\chi^2/\text{NDF}: 55.0/116$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.403 ± 0.030 χ^2/NDF : 2193273.9/32

Left Out: 198.800 ± 0.034 χ^2/NDF : 1763119.1/24

Right Out: 171.885 ± 0.030 χ^2/NDF : 2855014.2/35

Left In: 180.123 ± 0.032 χ^2/NDF : 1593842.6/22

Left: 188.872 ± 0.023 χ^2/NDF : 3518071.9/47

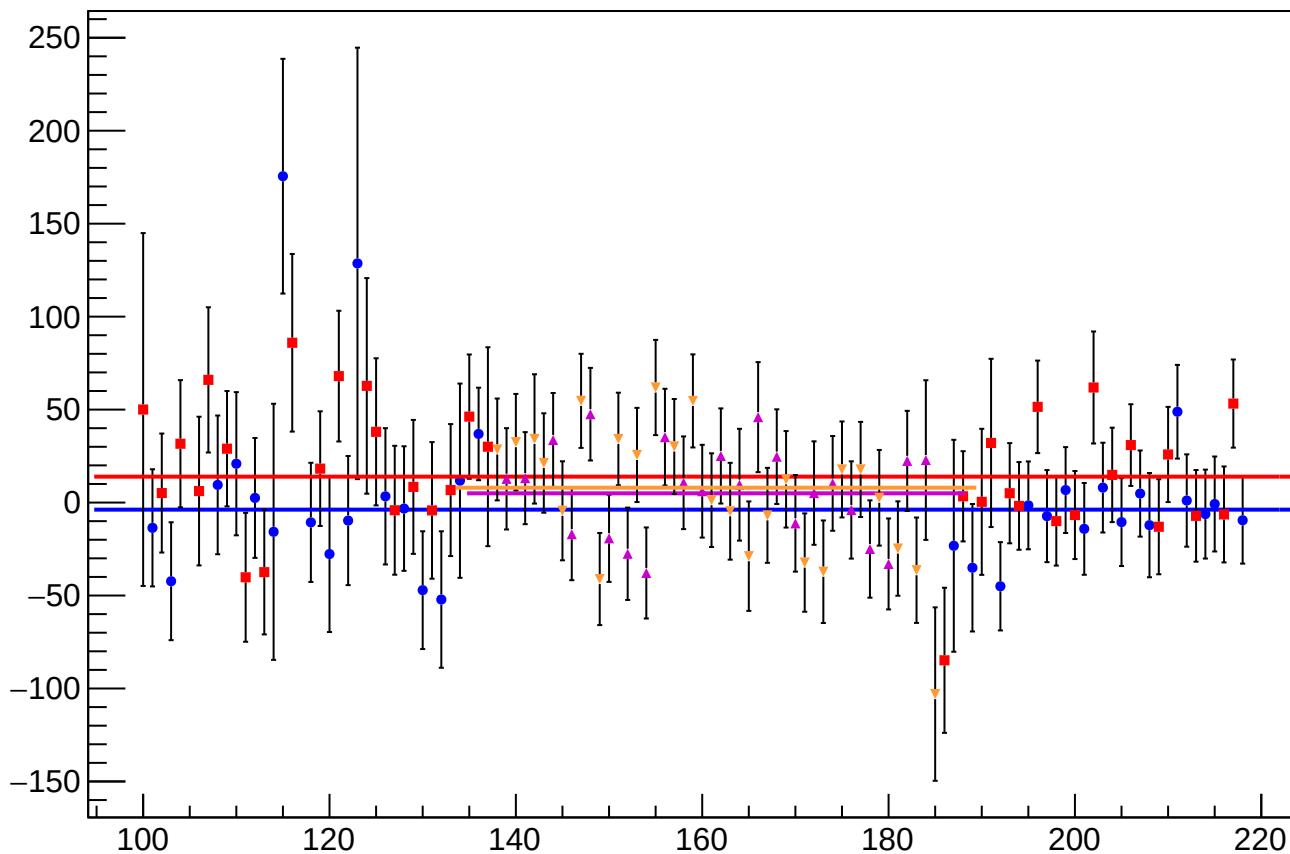
Right: 172.143 ± 0.021 χ^2/NDF : 5048440.3/68

In: 176.002 ± 0.022 χ^2/NDF : 3818484.7/55

Out: 183.534 ± 0.022 χ^2/NDF : 4975138.0/60

All: 179.670 ± 0.016 χ^2/NDF : 8852043.1/116

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.808 ± 5.167 χ^2/NDF : 27.8/32

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 13.944 ± 5.121 χ^2/NDF : 34.7/35

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

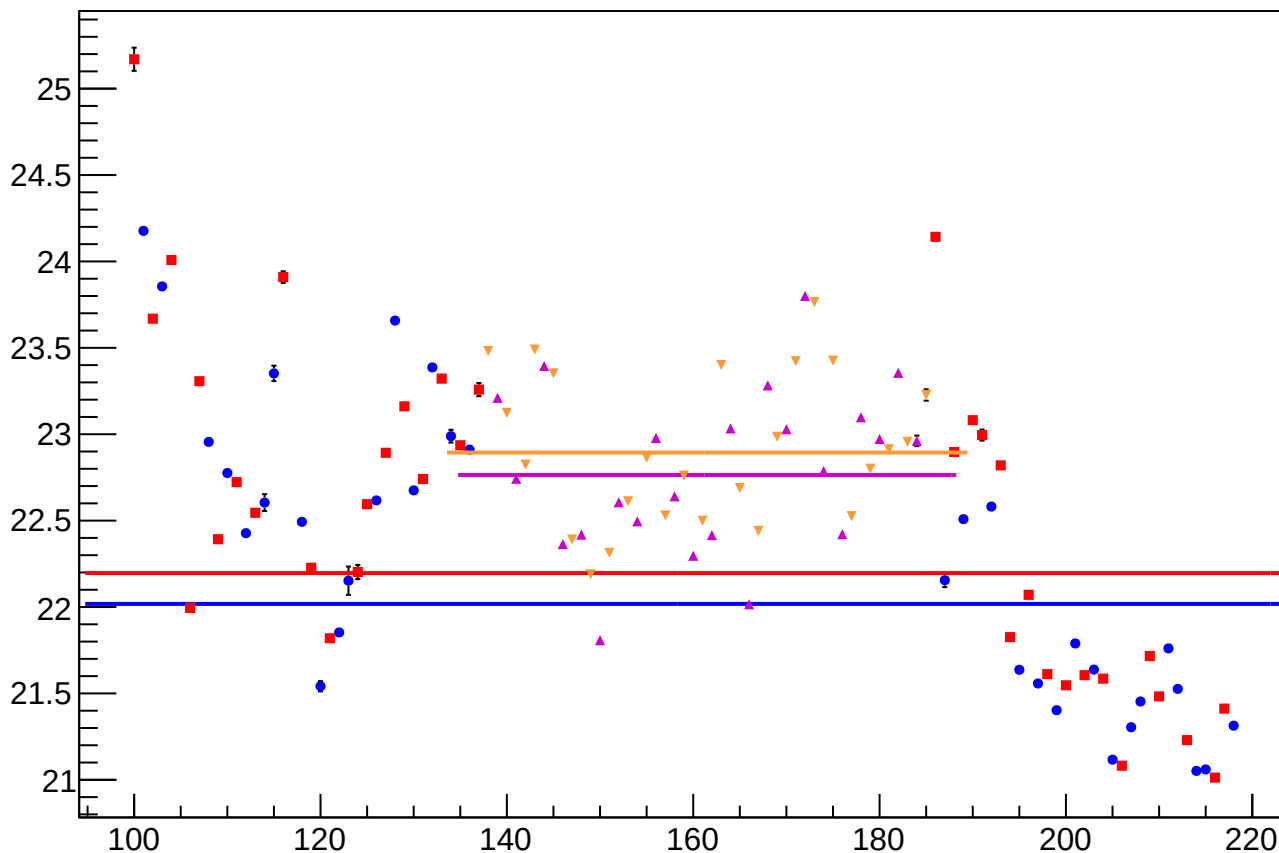
Right: 5.148 ± 3.637 χ^2/NDF : 68.4/68

In: 0.353 ± 3.748 χ^2/NDF : 49.6/55

Out: 11.084 ± 3.692 χ^2/NDF : 72.8/60

All: 5.800 ± 2.630 χ^2/NDF : 126.5/116

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.018+/-0.004 χ^2/NDF : 51850.3/32

Left Out: 22.894+/-0.004 χ^2/NDF : 13070.5/24

Right Out: 22.196+/-0.004 χ^2/NDF : 55116.0/35

Left In: 22.764+/-0.004 χ^2/NDF : 14665.7/22

Left: 22.831+/-0.003 χ^2/NDF : 28317.3/47

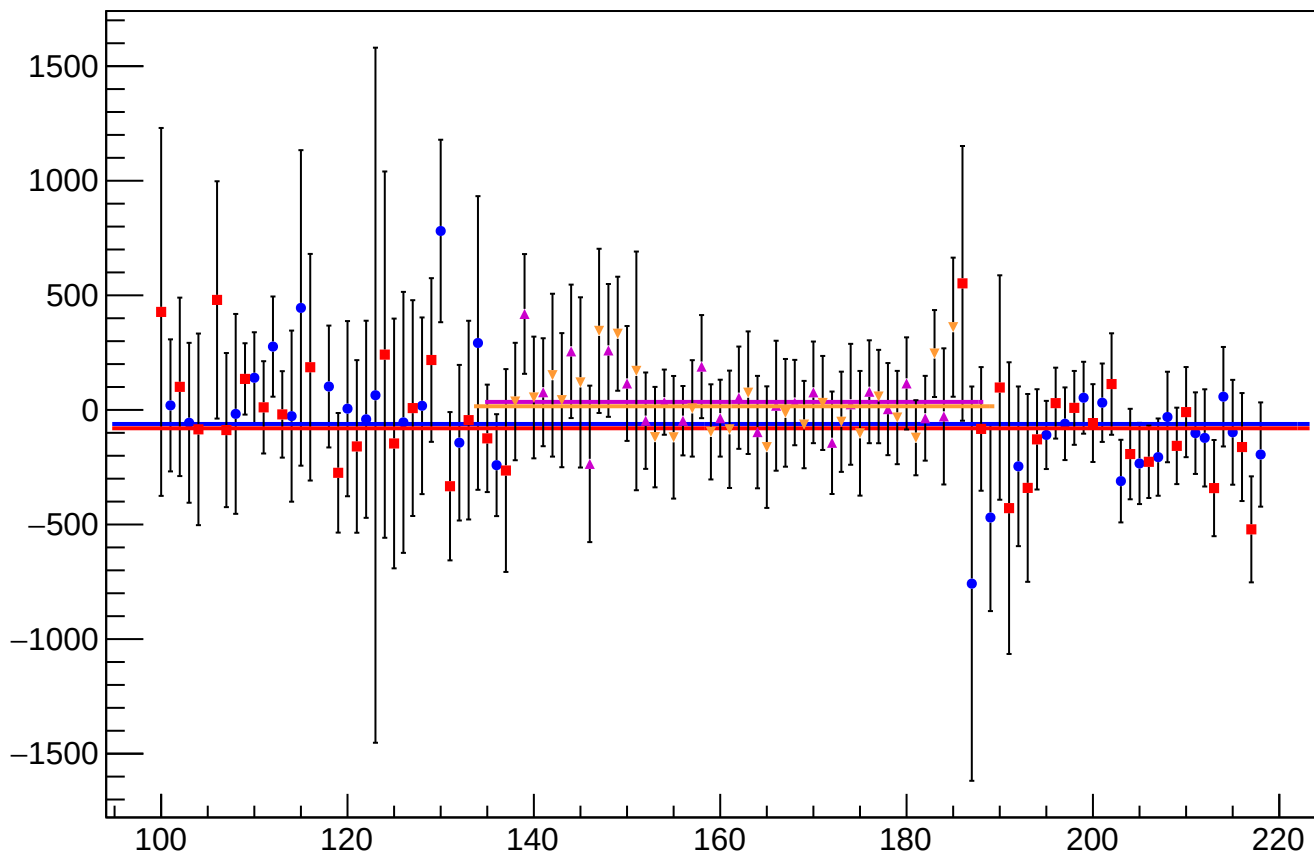
Right: 22.108+/-0.003 χ^2/NDF : 108166.5/68

In: 22.372+/-0.003 χ^2/NDF : 86276.7/55

Out: 22.531+/-0.003 χ^2/NDF : 86018.2/60

All: 22.453+/-0.002 χ^2/NDF : 174138.8/116

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.301 ± 41.972 $\chi^2/\text{NDF}: 17.3/32$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -80.154 ± 41.735 $\chi^2/\text{NDF}: 17.0/35$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

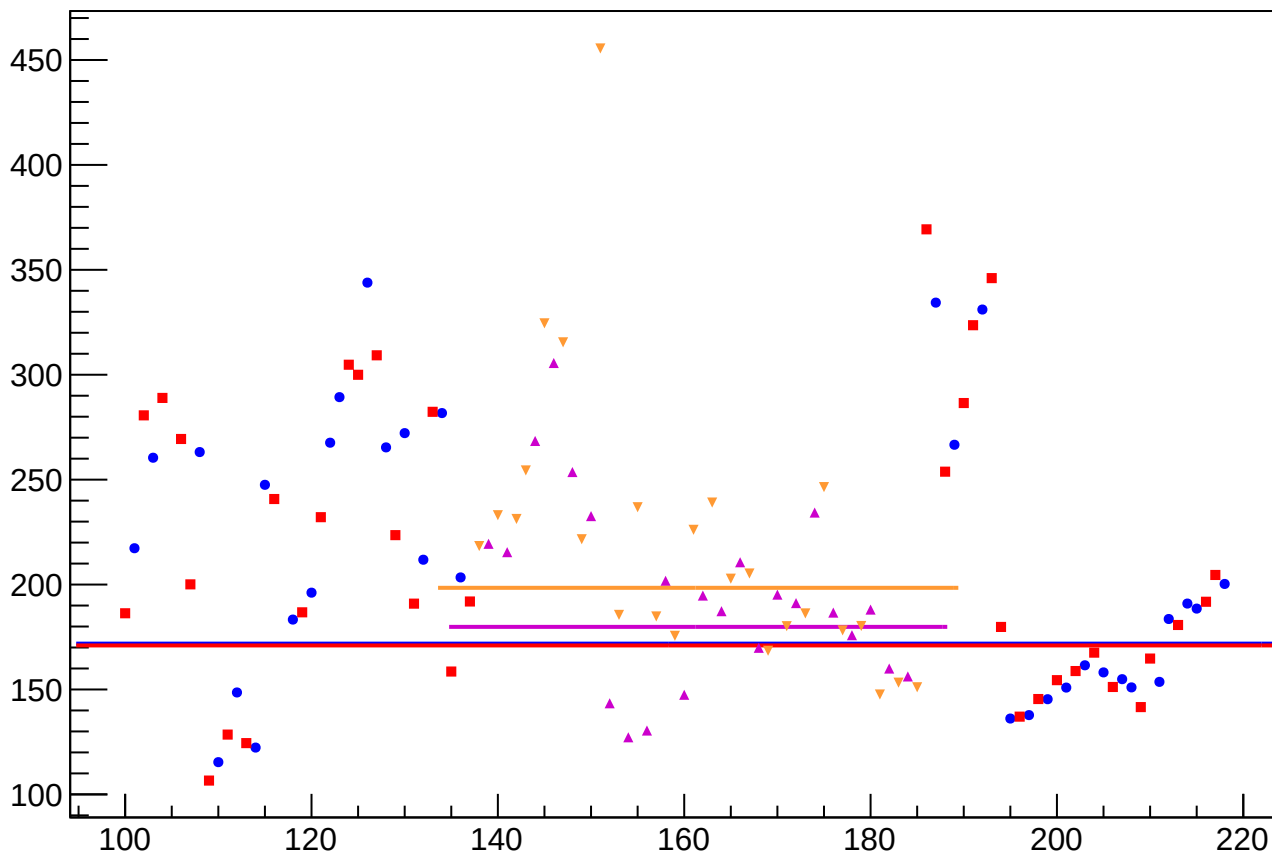
Right: -70.781 ± 29.594 $\chi^2/\text{NDF}: 34.4/68$

In: -16.506 ± 30.684 $\chi^2/\text{NDF}: 26.3/55$

Out: -38.699 ± 31.466 $\chi^2/\text{NDF}: 27.8/60$

All: -27.323 ± 21.968 $\chi^2/\text{NDF}: 54.3/116$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.847+/-0.030 χ^2/NDF : 2224396.3/32

Left Out: 198.450+/-0.034 χ^2/NDF : 1761433.9/24

Right Out: 170.987+/-0.030 χ^2/NDF : 2924061.6/35

Left In: 179.839+/-0.032 χ^2/NDF : 1588834.3/22

Left: 188.558+/-0.023 χ^2/NDF : 3510745.5/47

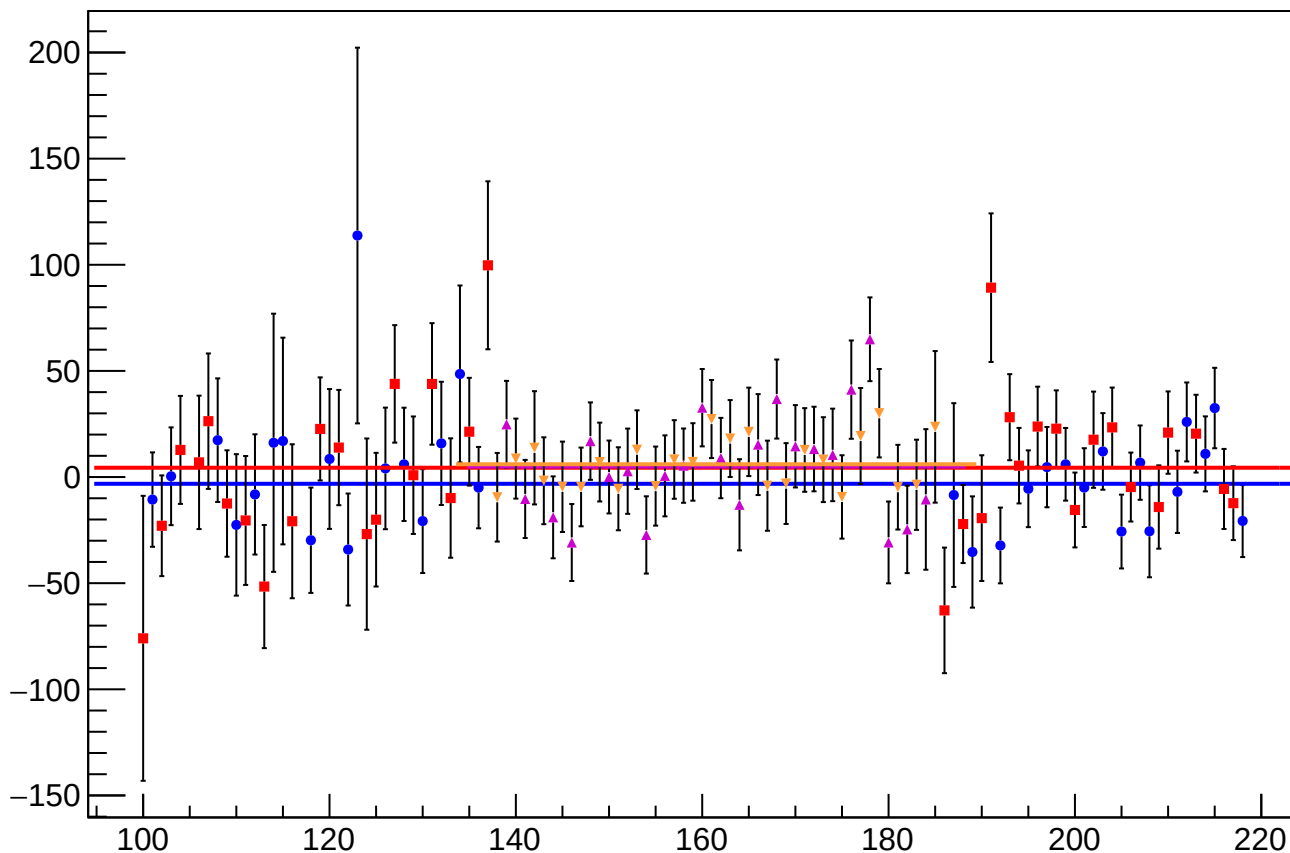
Right: 171.414+/-0.021 χ^2/NDF : 5148880.0/68

In: 175.567+/-0.022 χ^2/NDF : 3846993.9/55

Out: 182.839+/-0.022 χ^2/NDF : 5059234.2/60

All: 179.112+/-0.016 χ^2/NDF : 8960972.8/116

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.183 ± 3.926 χ^2/NDF : 24.5/32

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 4.388 ± 3.901 χ^2/NDF : 44.7/35

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

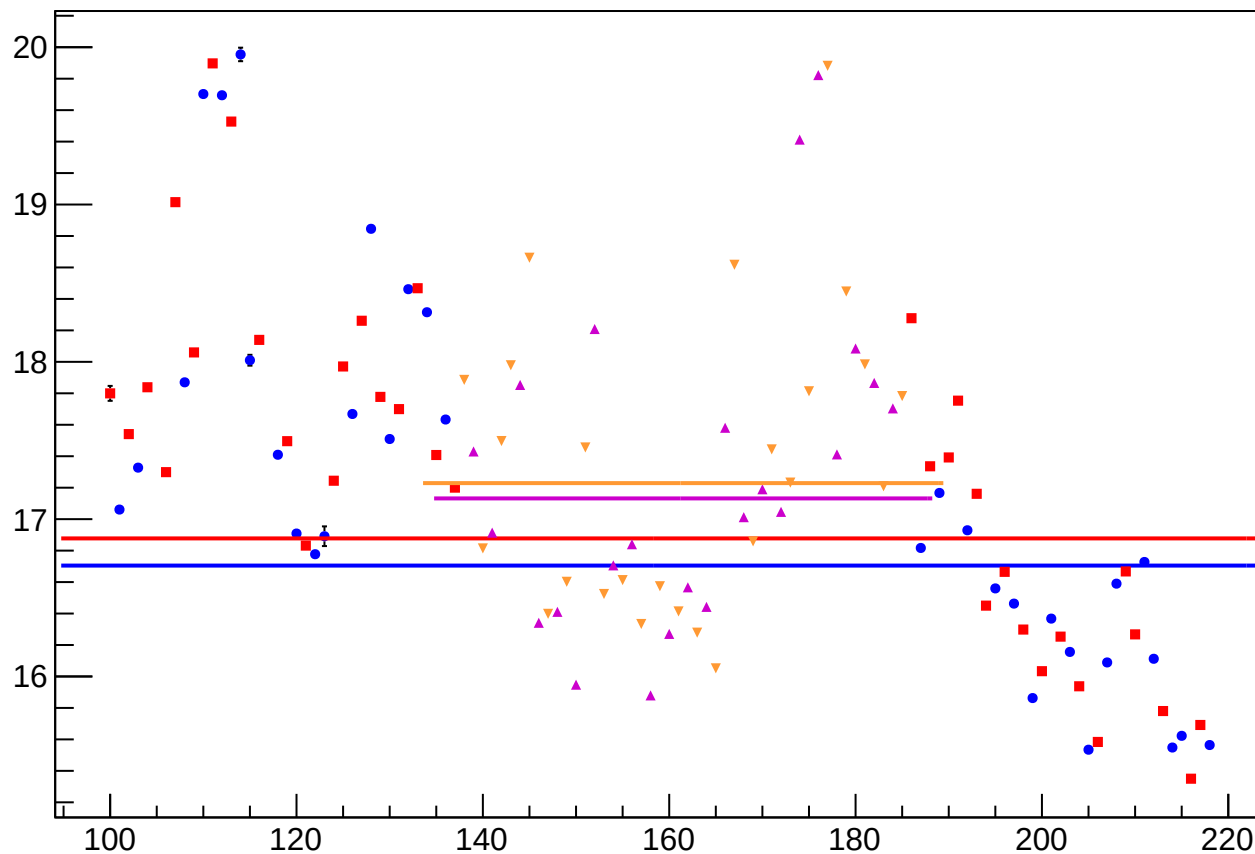
Right: 0.627 ± 2.767 χ^2/NDF : 71.1/68

In: 0.697 ± 2.838 χ^2/NDF : 61.4/55

Out: 5.180 ± 2.799 χ^2/NDF : 52.9/60

All: 2.970 ± 1.993 χ^2/NDF : 115.6/116

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.705 $\pm$ 0.003 χ^2 /NDF: 131255.8/32

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 16.878 $\pm$ 0.003 χ^2 /NDF: 144546.3/35

Left In: 17.132 $\pm$ 0.003 χ^2 /NDF:103997.3/22

Left: 17.182 $\pm$ 0.002 χ^2 /NDF: 203195.4/47

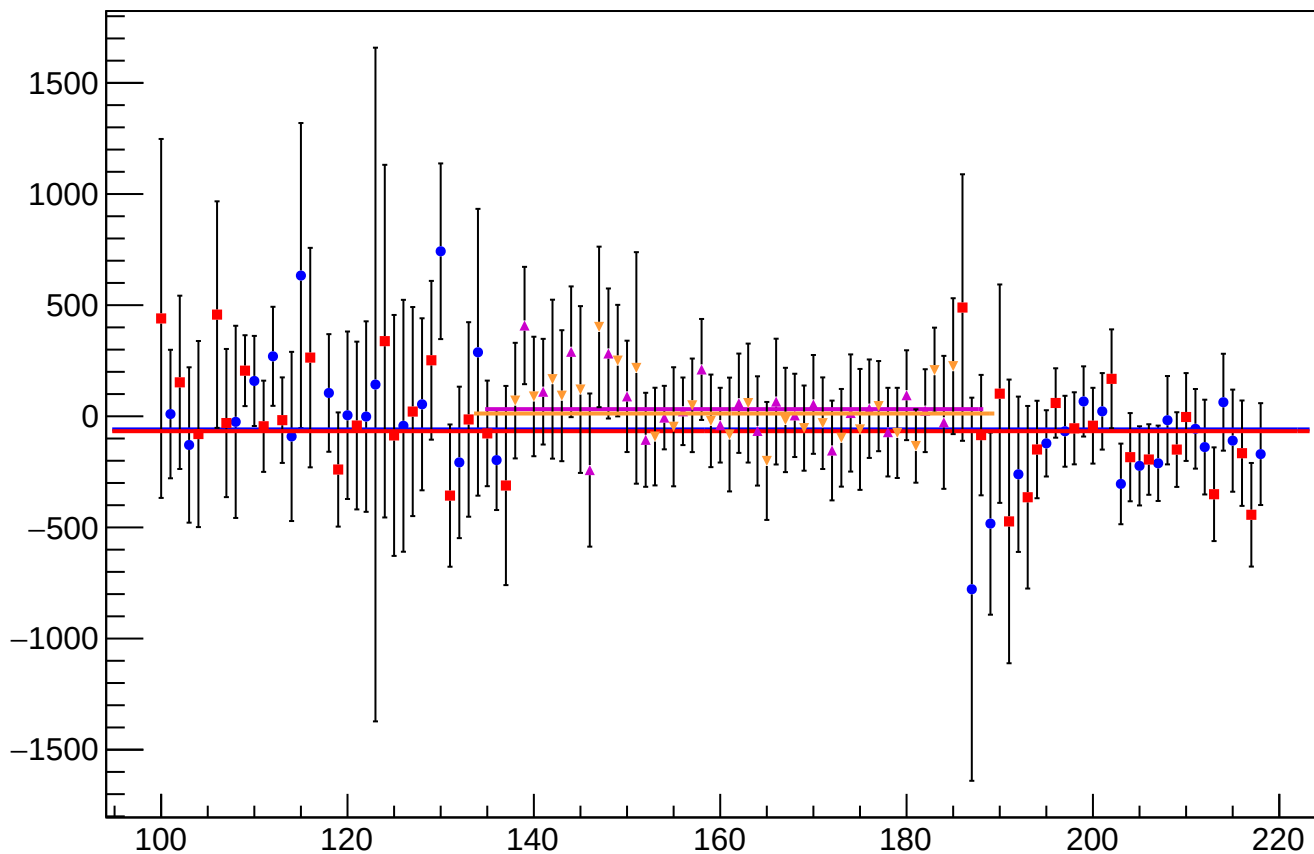
Right: 16.792 $\pm$ 0.002 χ^2 /NDF: 277749.5/68

In: 16.909 $\pm$ 0.002 χ^2 /NDF:246543.9/55

Out: 17.048 $\pm$ 0.002 χ^2 /NDF:251052.1/60

All: 16.979 $\pm$ 0.001 χ^2 /NDF: 500044.8/116

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.991 ± 42.217 $\chi^2/\text{NDF}: 17.4/32$

Left Out: 12.474 ± 48.086 $\chi^2/\text{NDF}: 6.8/24$

Right Out: -67.055 ± 42.022 $\chi^2/\text{NDF}: 17.7/35$

Left In: 32.159 ± 45.131 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.940 ± 32.908 $\chi^2/\text{NDF}: 13.9/47$

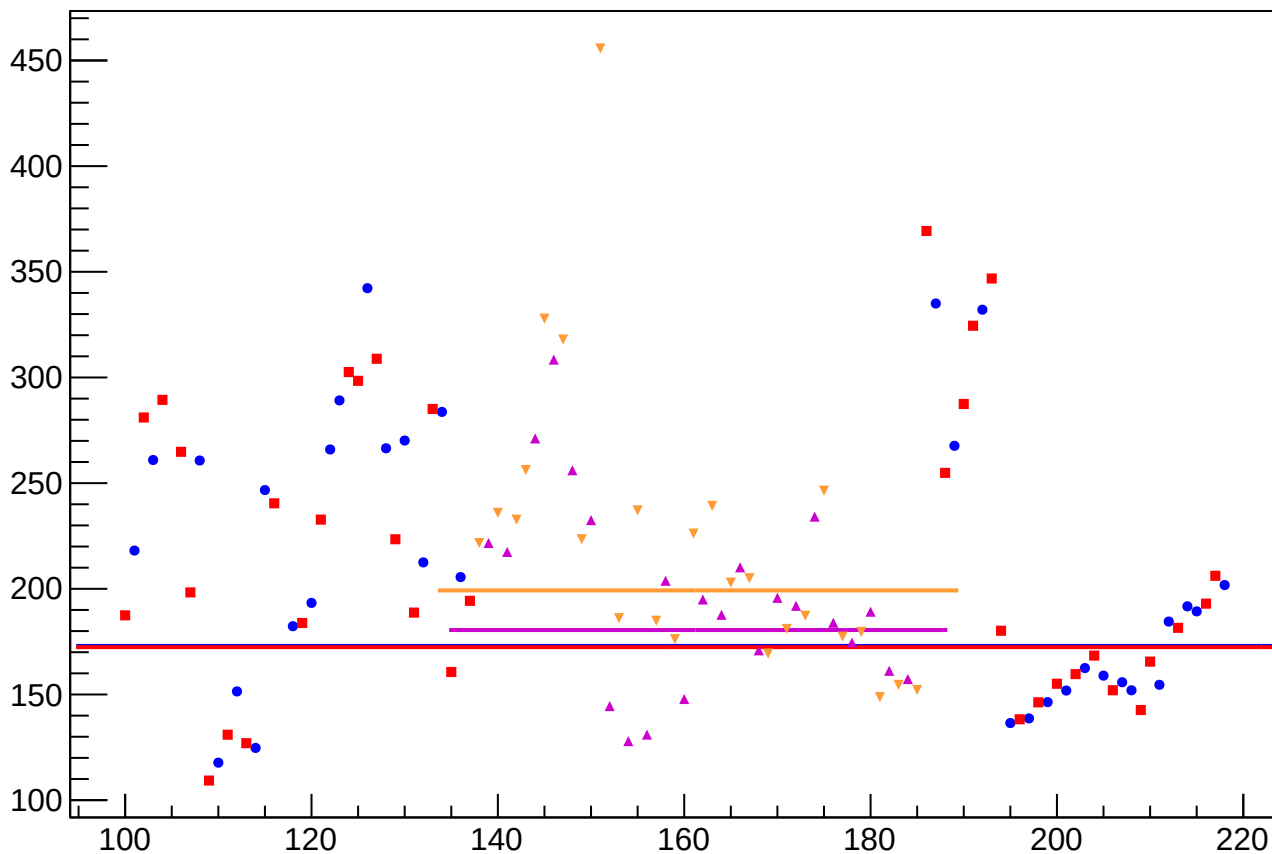
Right: -63.042 ± 29.783 $\chi^2/\text{NDF}: 35.1/68$

In: -16.454 ± 30.831 $\chi^2/\text{NDF}: 26.5/55$

Out: -32.618 ± 31.642 $\chi^2/\text{NDF}: 26.1/60$

All: -24.326 ± 22.082 $\chi^2/\text{NDF}: 52.7/116$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.967 $\pm$ 0.030 χ^2 /NDF: 2174930.0/32

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 172.405 $\pm$ 0.030 χ^2 /NDF: 2830426.0/35

Left In: 180.494 $\pm$ 0.032 χ^2 /NDF:1593784.1/22

Left: 189.274 $\pm$ 0.023 χ^2 /NDF: 3519511.1/47

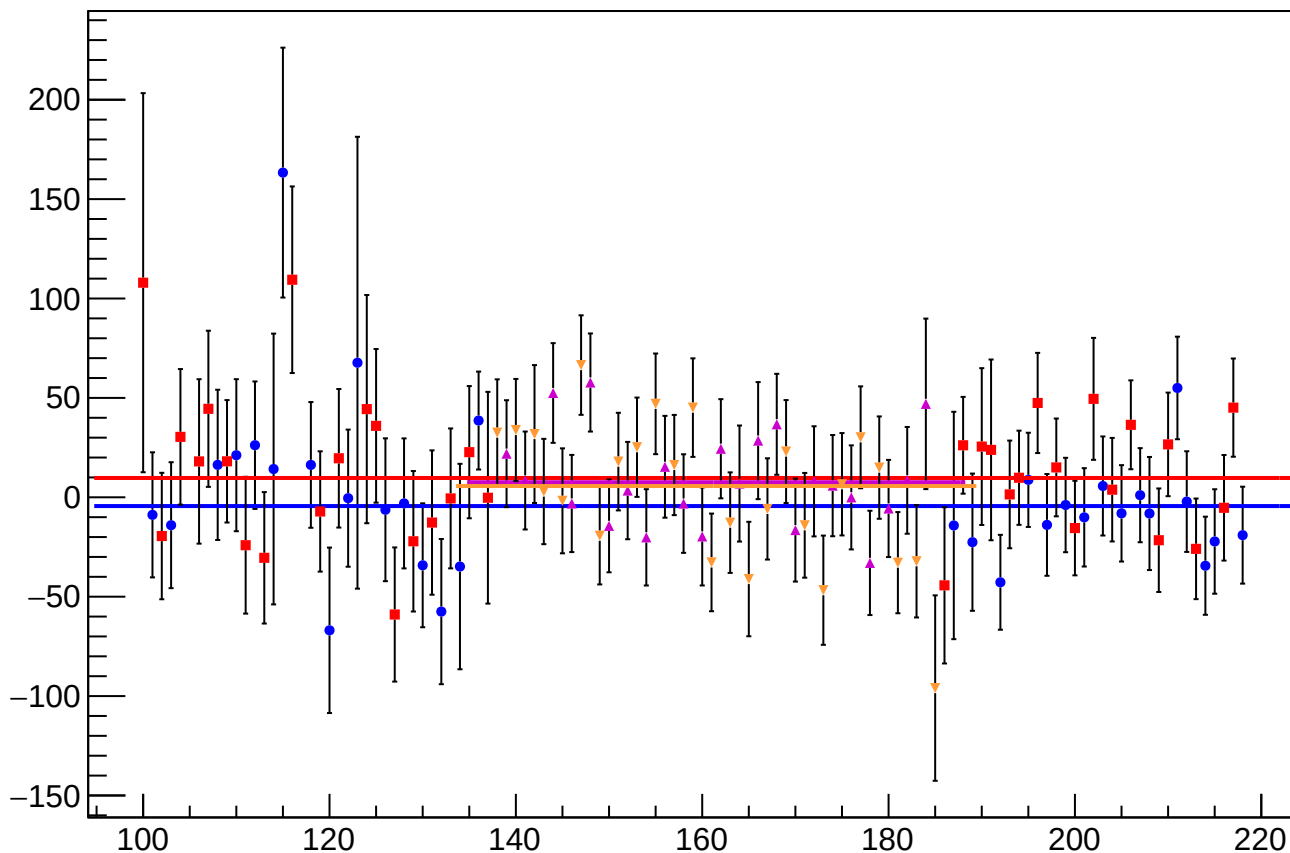
Right: 172.684 $\pm$ 0.021 χ^2 /NDF: 5005534.1/68

In: 176.479 $\pm$ 0.022 χ^2 /NDF:3798385.0/55

Out: 184.025 $\pm$ 0.022 χ^2 /NDF:4947727.1/60

All: 180.154 $\pm$ 0.016 χ^2 /NDF: 8804458.2/116

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.409 ± 5.226 $\chi^2/\text{NDF}: 29.8/32$

Left Out: 5.673 ± 5.278 $\chi^2/\text{NDF}: 36.4/24$

Right Out: 9.723 ± 5.160 $\chi^2/\text{NDF}: 32.4/35$

Left In: 7.594 ± 5.402 $\chi^2/\text{NDF}: 18.3/22$

Left: 6.611 ± 3.775 $\chi^2/\text{NDF}: 54.8/47$

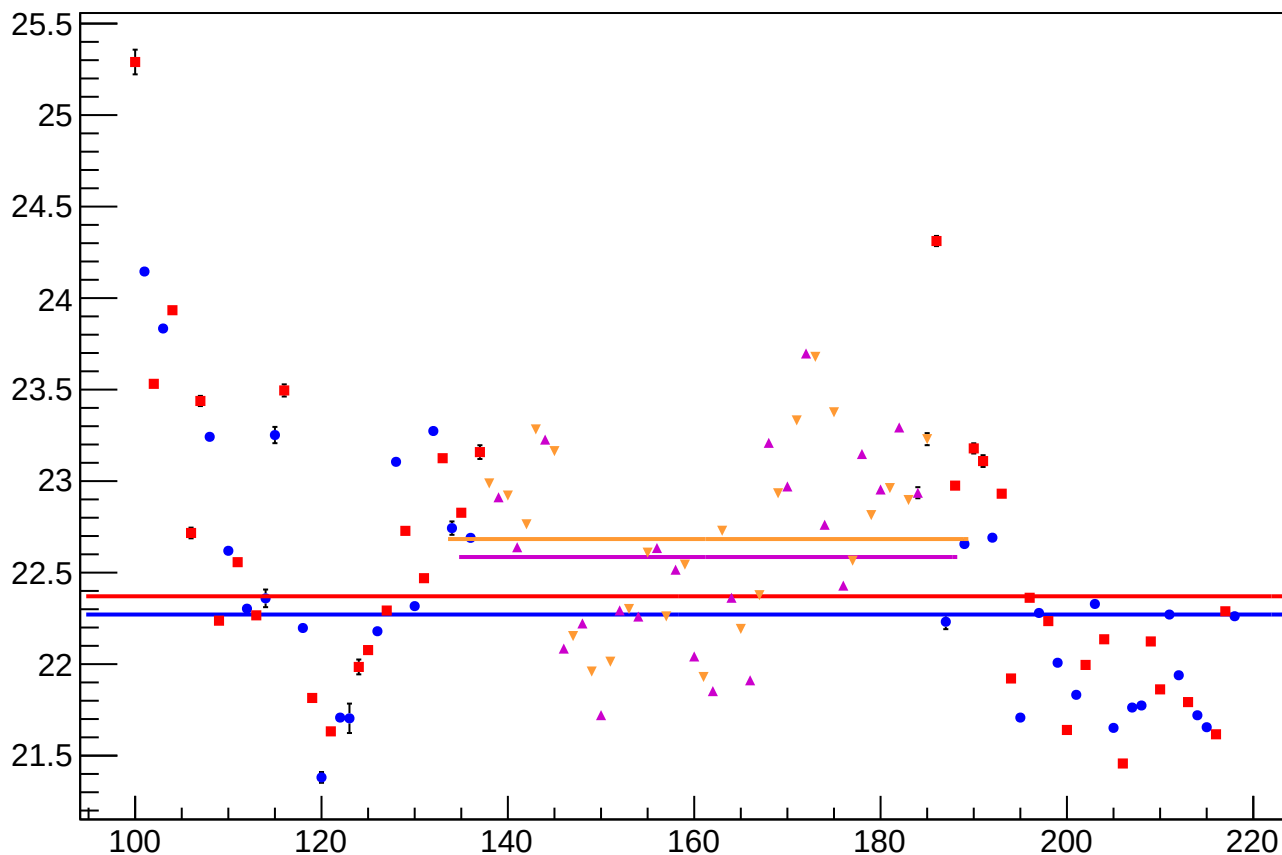
Right: 2.746 ± 3.672 $\chi^2/\text{NDF}: 65.9/68$

In: 1.393 ± 3.756 $\chi^2/\text{NDF}: 50.6/55$

Out: 7.744 ± 3.690 $\chi^2/\text{NDF}: 69.2/60$

All: 4.625 ± 2.632 $\chi^2/\text{NDF}: 121.2/116$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.271 $\pm$ 0.004 χ^2 /NDF: 27182.6/32

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16318.1/24

Right Out: 22.371 $\pm$ 0.004 χ^2 /NDF: 33785.1/35

Left In: 22.585 $\pm$ 0.004 χ^2 /NDF:18087.5/22

Left: 22.635 $\pm$ 0.003 χ^2 /NDF: 34743.7/47

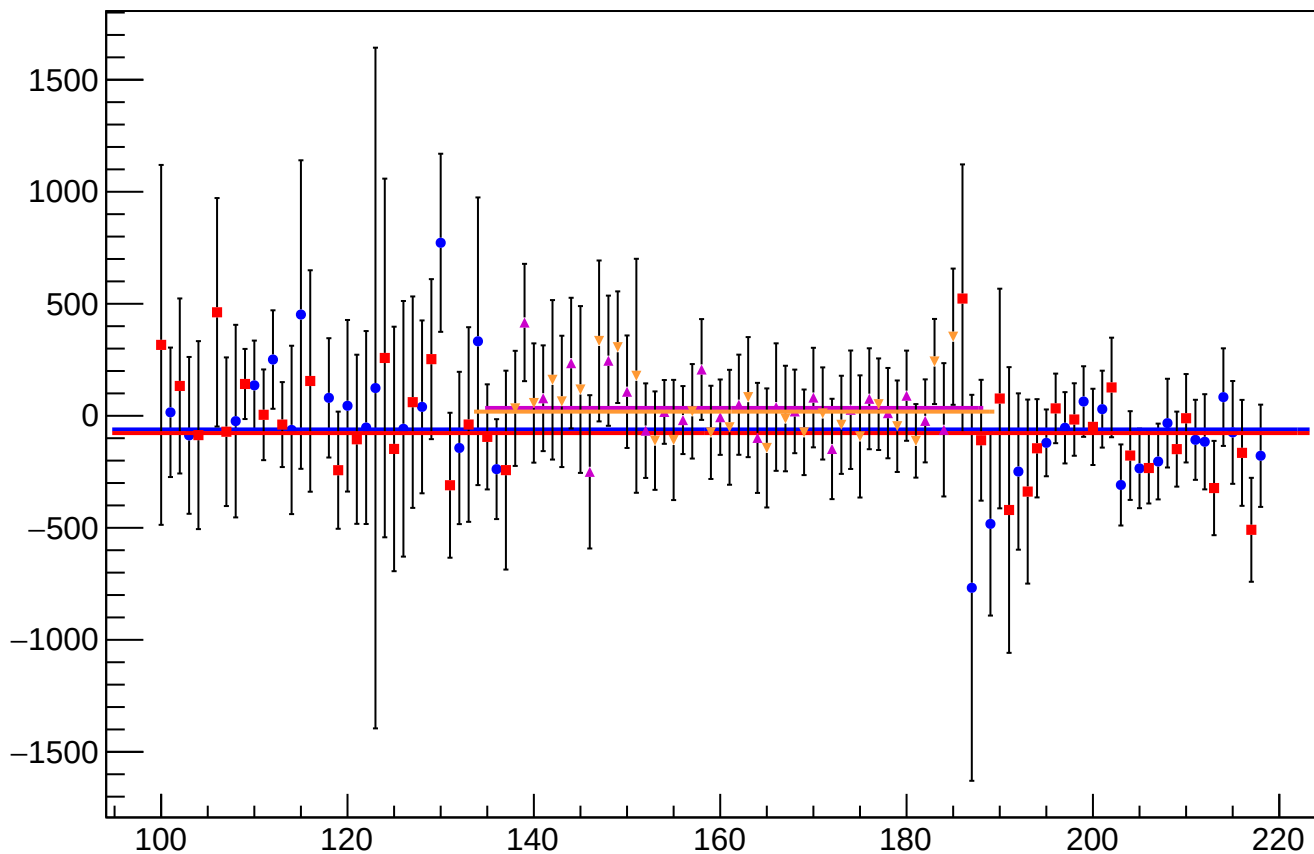
Right: 22.322 $\pm$ 0.003 χ^2 /NDF: 61335.8/68

In: 22.423 $\pm$ 0.003 χ^2 /NDF:48765.4/55

Out: 22.524 $\pm$ 0.003 χ^2 /NDF:53693.4/60

All: 22.474 $\pm$ 0.002 χ^2 /NDF: 103188.9/116

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.879 ± 42.099 $\chi^2/\text{NDF}: 17.0/32$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -77.161 ± 41.848 $\chi^2/\text{NDF}: 16.1/35$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

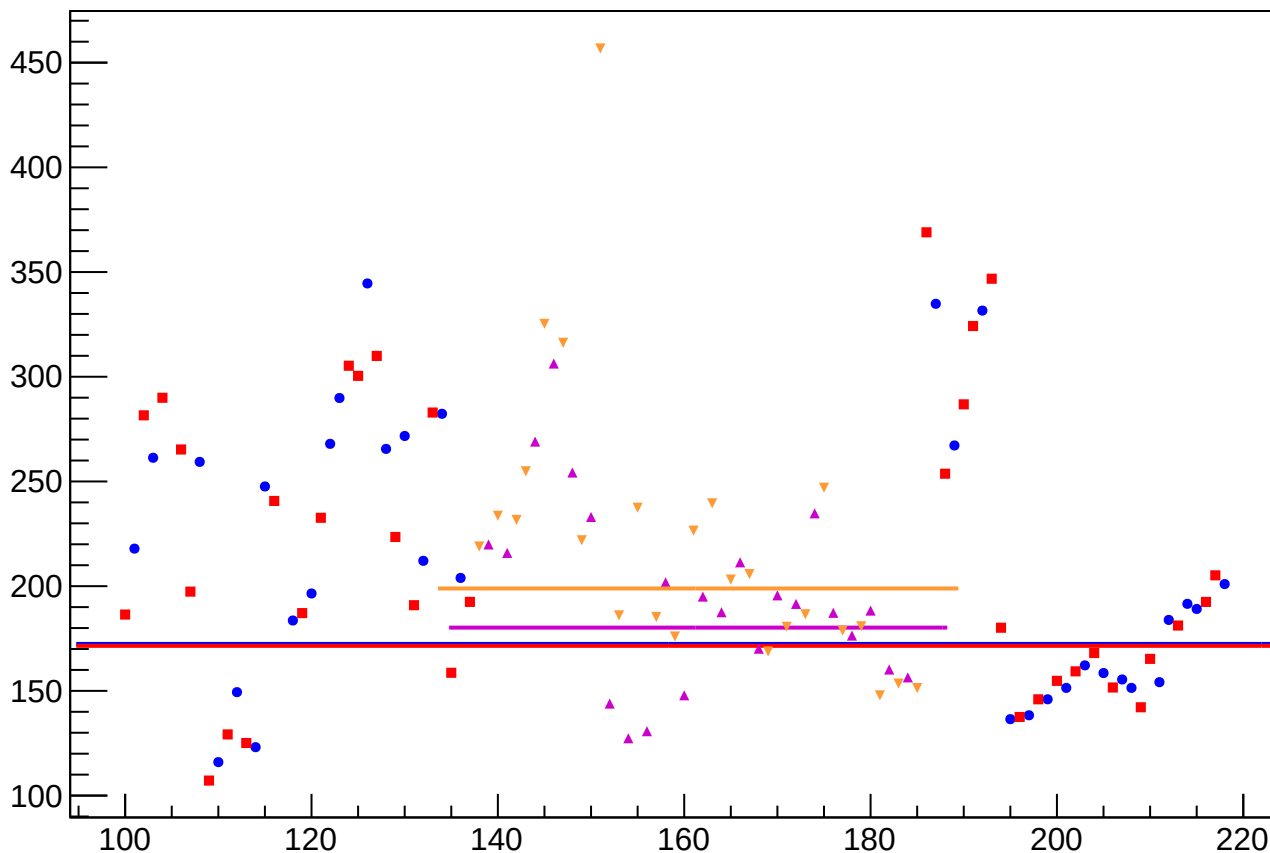
Right: -69.069 ± 29.679 $\chi^2/\text{NDF}: 33.3/68$

In: -16.175 ± 30.763 $\chi^2/\text{NDF}: 25.7/55$

Out: -35.798 ± 31.545 $\chi^2/\text{NDF}: 26.0/60$

All: -25.740 ± 22.024 $\chi^2/\text{NDF}: 51.9/116$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.415 $\pm$ 0.030 χ^2 /NDF: 2205451.6/32

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 171.512 $\pm$ 0.030 χ^2 /NDF: 2898534.4/35

Left In: 180.207 $\pm$ 0.032 χ^2 /NDF:1589005.4/22

Left: 188.959 $\pm$ 0.023 χ^2 /NDF: 3512499.2/47

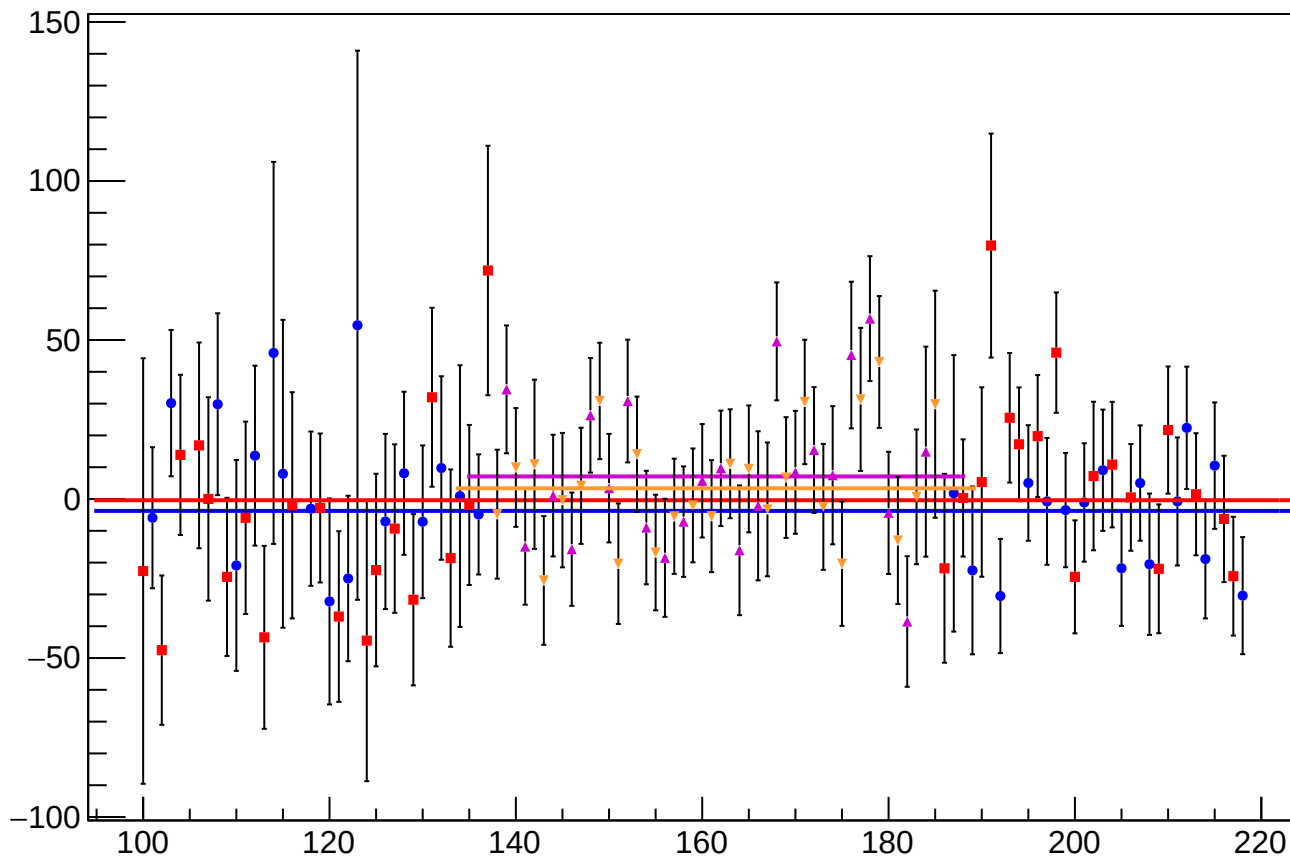
Right: 171.961 $\pm$ 0.021 χ^2 /NDF: 5104448.3/68

In: 176.046 $\pm$ 0.022 χ^2 /NDF:3826389.3/55

Out: 183.334 $\pm$ 0.022 χ^2 /NDF:5030610.6/60

All: 179.599 $\pm$ 0.016 χ^2 /NDF: 8911714.0/116

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.733 ± 4.003 χ^2/NDF : 17.7/32

Left Out: 3.372 ± 3.947 χ^2/NDF : 18.8/24

Right Out: -0.390 ± 3.956 χ^2/NDF : 39.8/35

Left In: 7.099 ± 4.047 χ^2/NDF : 32.5/22

Left: 5.189 ± 2.826 χ^2/NDF : 51.8/47

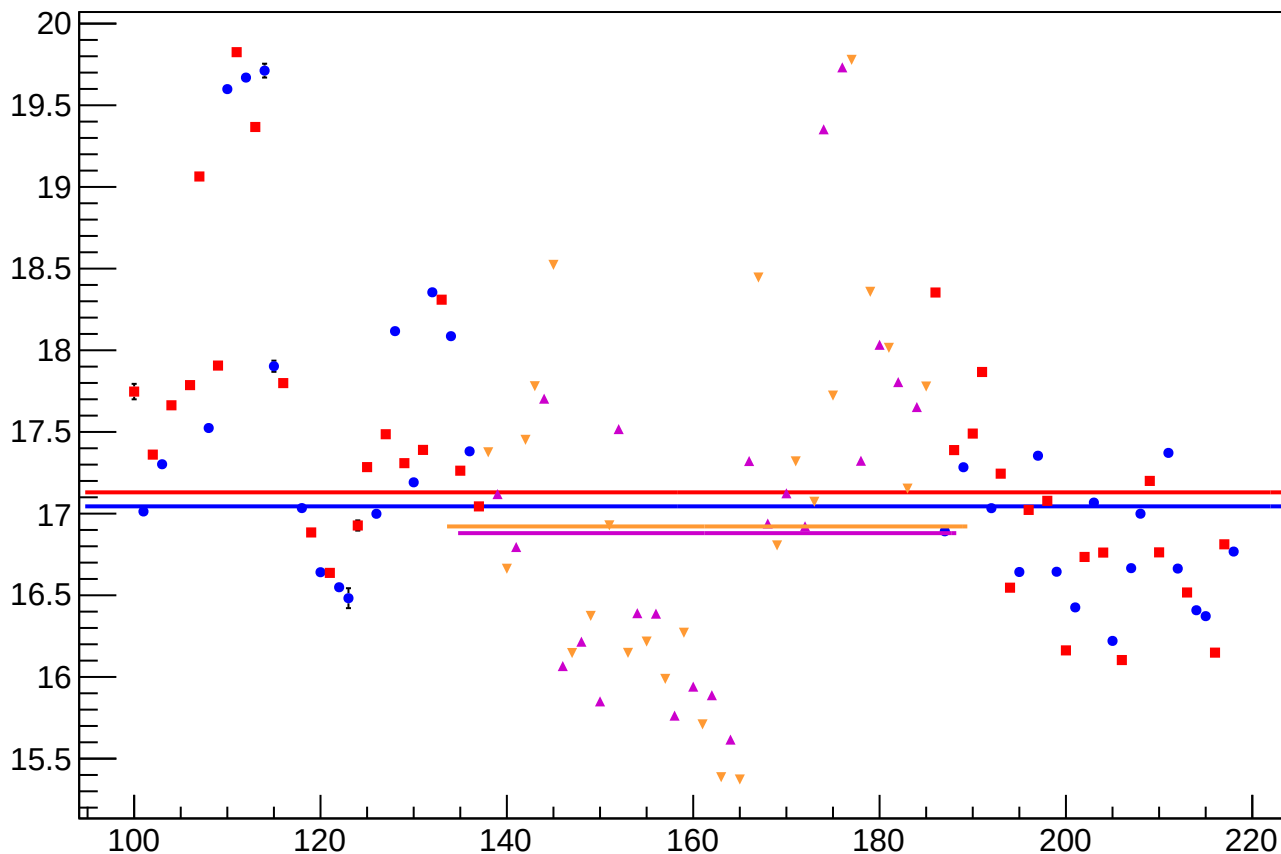
Right: -2.042 ± 2.814 χ^2/NDF : 57.8/68

In: 1.623 ± 2.846 χ^2/NDF : 53.9/55

Out: 1.495 ± 2.794 χ^2/NDF : 59.0/60

All: 1.558 ± 1.994 χ^2/NDF : 112.9/116

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.044 $\pm$ 0.003 χ^2 /NDF: 61459.0/32

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.130 $\pm$ 0.003 χ^2 /NDF: 75386.3/35

Left In: 16.880 $\pm$ 0.003 χ^2 /NDF:121736.1/22

Left: 16.901 $\pm$ 0.002 χ^2 /NDF: 260831.8/47

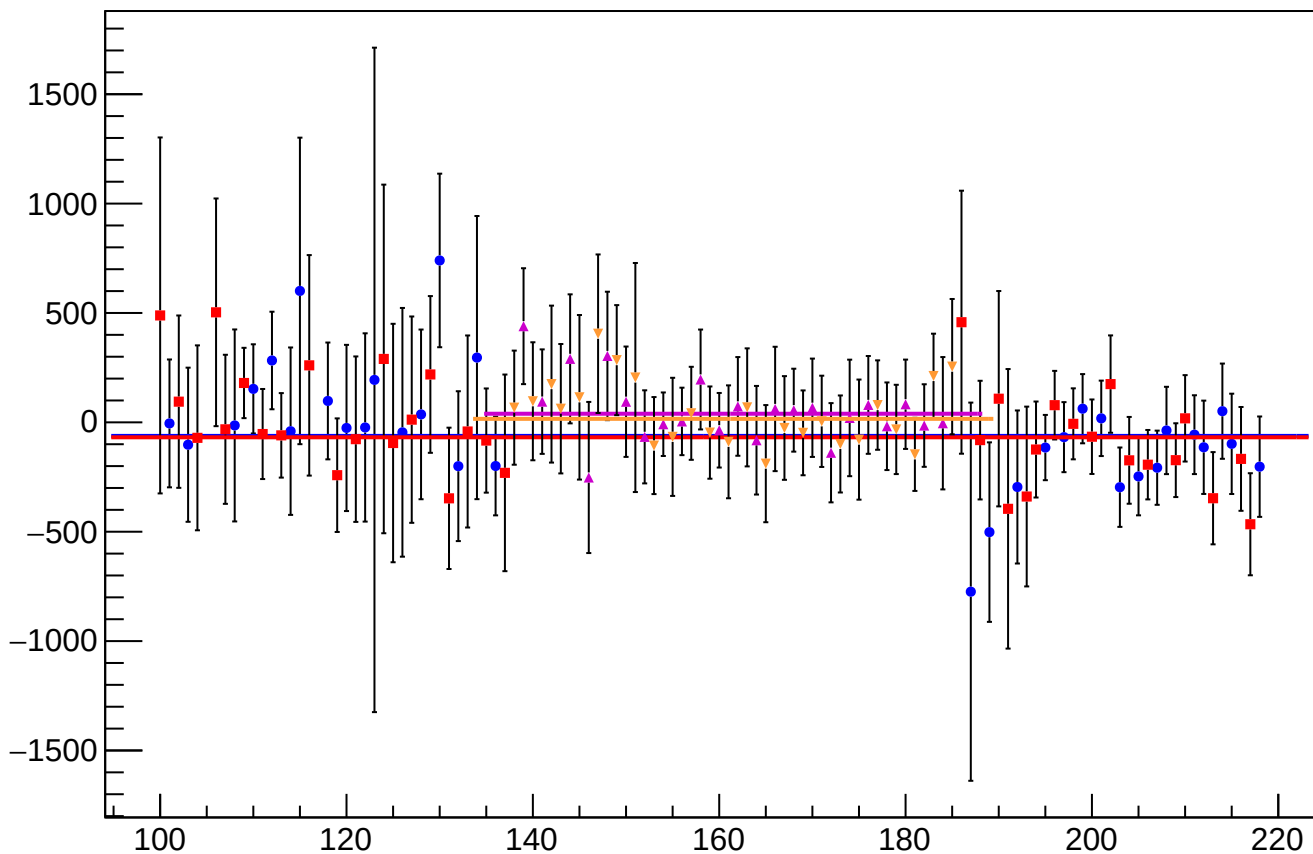
Right: 17.088 $\pm$ 0.002 χ^2 /NDF: 137309.6/68

In: 16.963 $\pm$ 0.002 χ^2 /NDF:184855.7/55

Out: 17.026 $\pm$ 0.002 χ^2 /NDF:217167.9/60

All: 16.995 $\pm$ 0.001 χ^2 /NDF: 402510.6/116

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.981 ± 42.325 χ^2/NDF : 17.3/32

Left Out: 15.970 ± 48.503 χ^2/NDF : 7.4/24

Right Out: -68.392 ± 42.150 χ^2/NDF : 17.1/35

Left In: 39.377 ± 45.571 χ^2/NDF : 6.9/22

Left: 28.402 ± 33.212 χ^2/NDF : 14.4/47

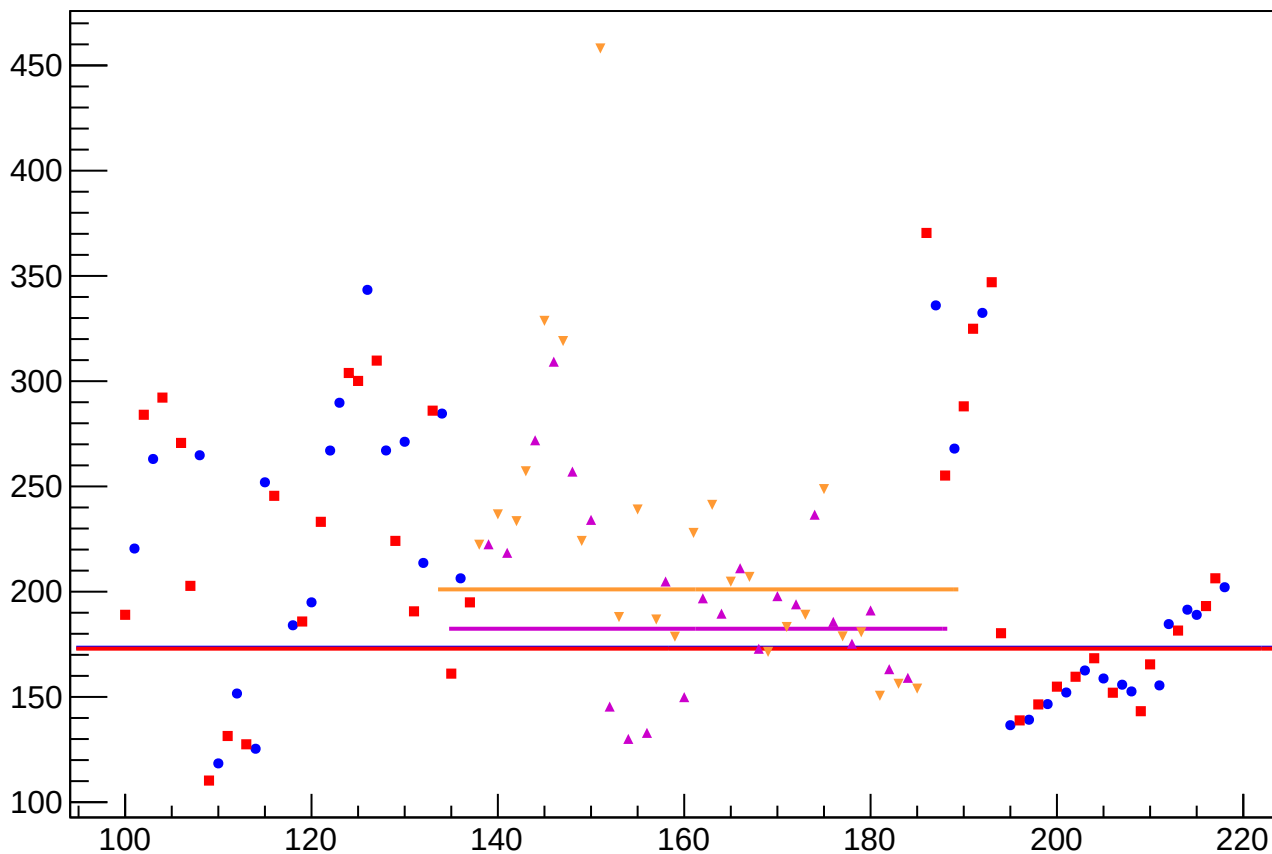
Right: -65.200 ± 29.866 χ^2/NDF : 34.4/68

In: -15.040 ± 31.012 χ^2/NDF : 26.9/55

Out: -32.095 ± 31.815 χ^2/NDF : 26.2/60

All: -23.350 ± 22.207 χ^2/NDF : 53.2/116

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.390 $\pm$ 0.030 χ^2 /NDF: 2187003.7/32

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 172.934 $\pm$ 0.030 χ^2 /NDF: 2839145.8/35

Left In: 182.396 $\pm$ 0.032 χ^2 /NDF:1548907.7/22

Left: 191.161 $\pm$ 0.023 χ^2 /NDF: 3437793.2/47

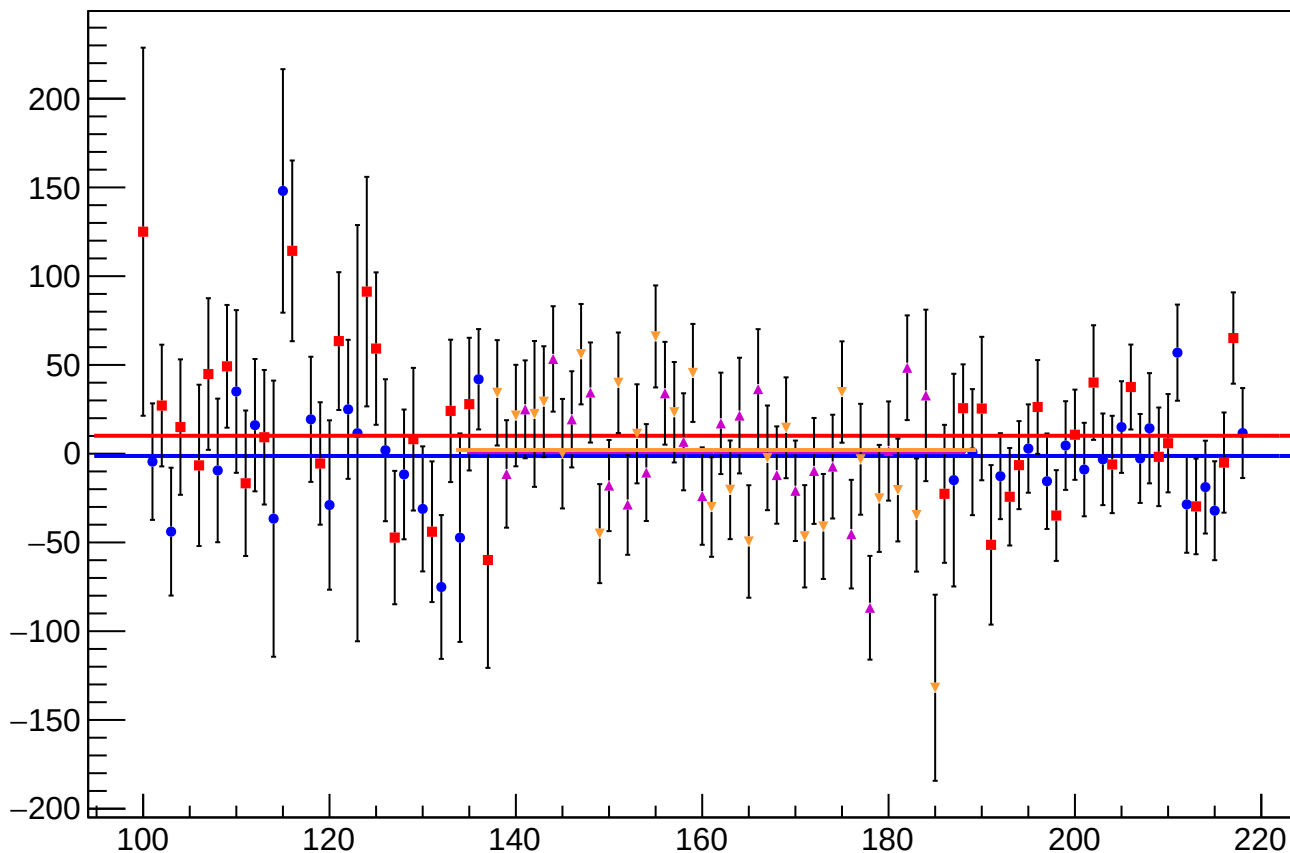
Right: 173.161 $\pm$ 0.021 χ^2 /NDF: 5026266.2/68

In: 177.561 $\pm$ 0.022 χ^2 /NDF:3777850.7/55

Out: 185.049 $\pm$ 0.022 χ^2 /NDF:4954237.1/60

All: 181.209 $\pm$ 0.016 χ^2 /NDF: 8788894.8/116

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.279 ± 5.620 $\chi^2/\text{NDF}: 24.4/32$

Left Out: 2.054 ± 5.970 $\chi^2/\text{NDF}: 39.4/24$

Right Out: 10.095 ± 5.531 $\chi^2/\text{NDF}: 37.4/35$

Left In: 0.900 ± 6.069 $\chi^2/\text{NDF}: 27.1/22$

Left: 1.487 ± 4.256 $\chi^2/\text{NDF}: 66.5/47$

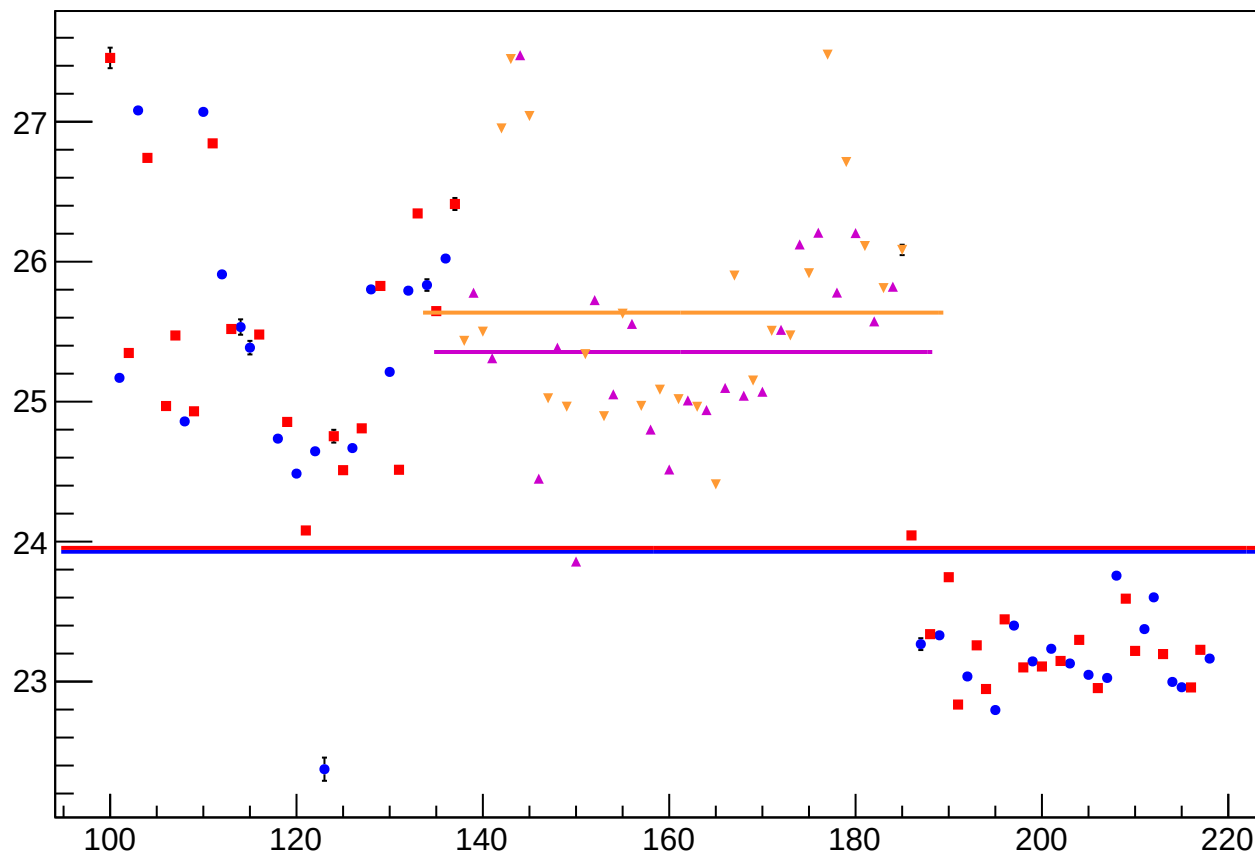
Right: 4.499 ± 3.942 $\chi^2/\text{NDF}: 63.9/68$

In: -0.273 ± 4.124 $\chi^2/\text{NDF}: 51.5/55$

Out: 6.381 ± 4.057 $\chi^2/\text{NDF}: 77.8/60$

All: 3.108 ± 2.892 $\chi^2/\text{NDF}: 130.7/116$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.928 $\pm$ 0.004 χ^2 /NDF: 90898.4/32

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF: 35130.7/24

Right Out: 23.955 $\pm$ 0.004 χ^2 /NDF: 84456.6/35

Left In: 25.355 $\pm$ 0.004 χ^2 /NDF: 29766.2/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 67081.3/47

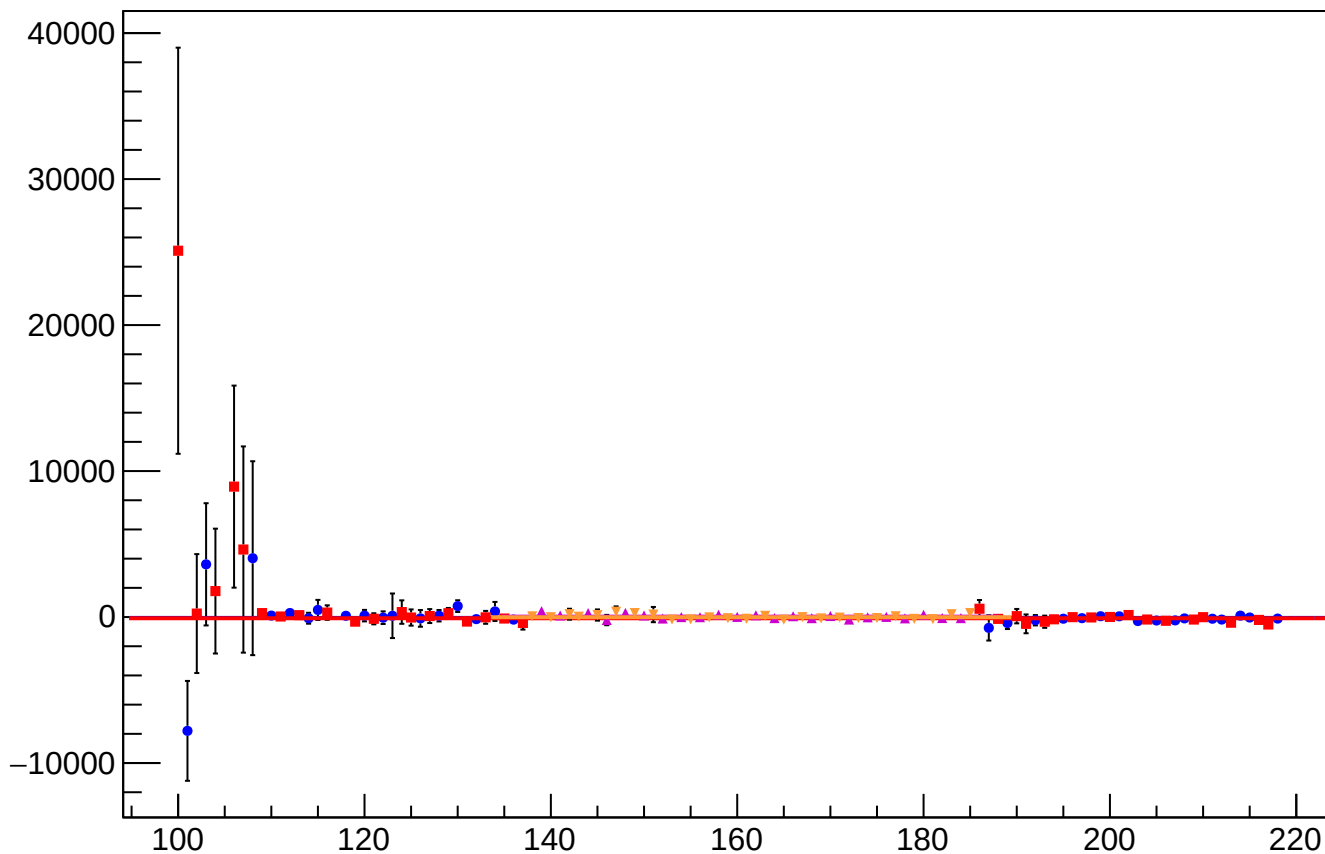
Right: 23.942 $\pm$ 0.003 χ^2 /NDF: 175379.1/68

In: 24.587 $\pm$ 0.003 χ^2 /NDF: 180181.1/55

Out: 24.731 $\pm$ 0.003 χ^2 /NDF: 204912.0/60

All: 24.660 $\pm$ 0.002 χ^2 /NDF: 386349.2/116

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.053 ± 44.122 χ^2/NDF : 22.0/32

Left Out: -12.820 ± 48.216 χ^2/NDF : 7.9/24

Right Out: -82.756 ± 44.553 χ^2/NDF : 24.4/35

Left In: 26.836 ± 45.876 χ^2/NDF : 7.5/22

Left: 7.994 ± 33.236 χ^2/NDF : 15.7/47

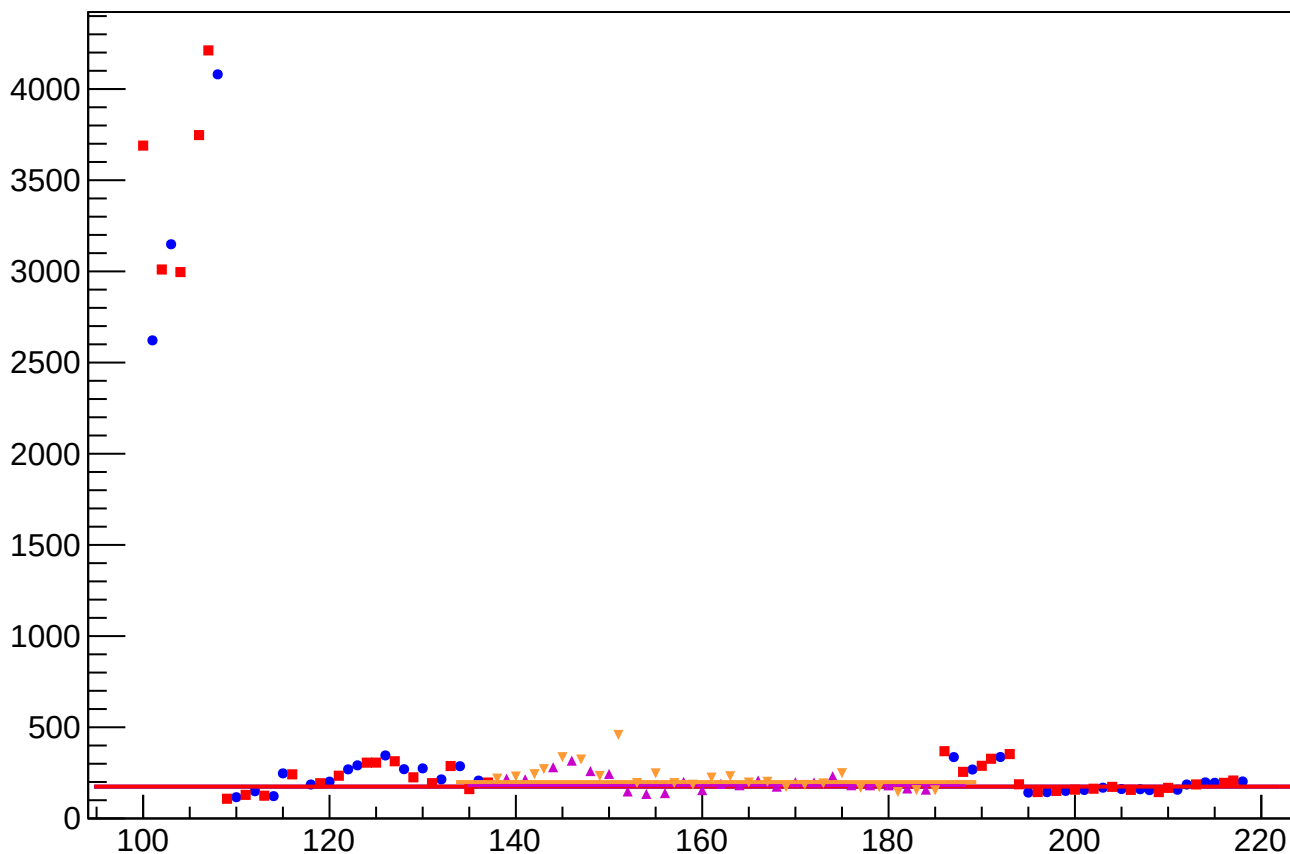
Right: -70.789 ± 31.350 χ^2/NDF : 46.6/68

In: -17.782 ± 31.801 χ^2/NDF : 31.3/55

Out: -50.545 ± 32.722 χ^2/NDF : 33.4/60

All: -33.695 ± 22.805 χ^2/NDF : 65.2/116

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.376+/-0.031 χ^2/NDF : 4597778.9/32

Left Out: 199.536+/-0.034 χ^2/NDF : 1880548.8/24

Right Out: 174.775+/-0.032 χ^2/NDF : 5461108.8/35

Left In: 184.031+/-0.032 χ^2/NDF : 1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

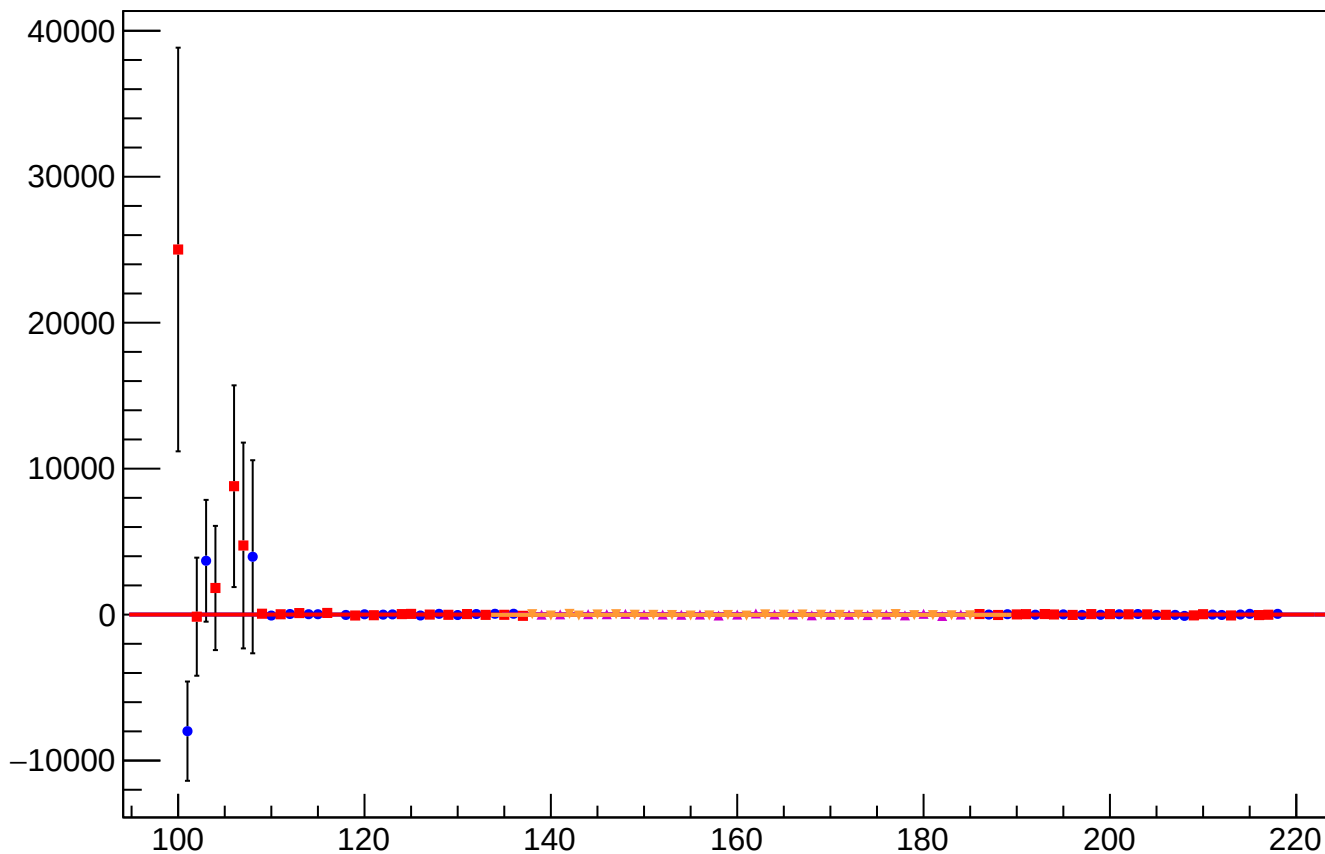
Right: 174.573+/-0.022 χ^2/NDF : 10058968.5/68

In: 179.016+/-0.022 χ^2/NDF : 6067255.0/55

Out: 186.179+/-0.023 χ^2/NDF : 7626170.5/60

All: 182.495+/-0.016 χ^2/NDF : 13742715.3/11

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.242+/-6.733 χ^2/NDF : 36.3/32

Left Out: -17.580+/-6.694 χ^2/NDF : 22.3/24

Right Out: 3.177+/-6.706 χ^2/NDF : 39.9/35

Left In: 1.038+/-6.880 χ^2/NDF : 32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

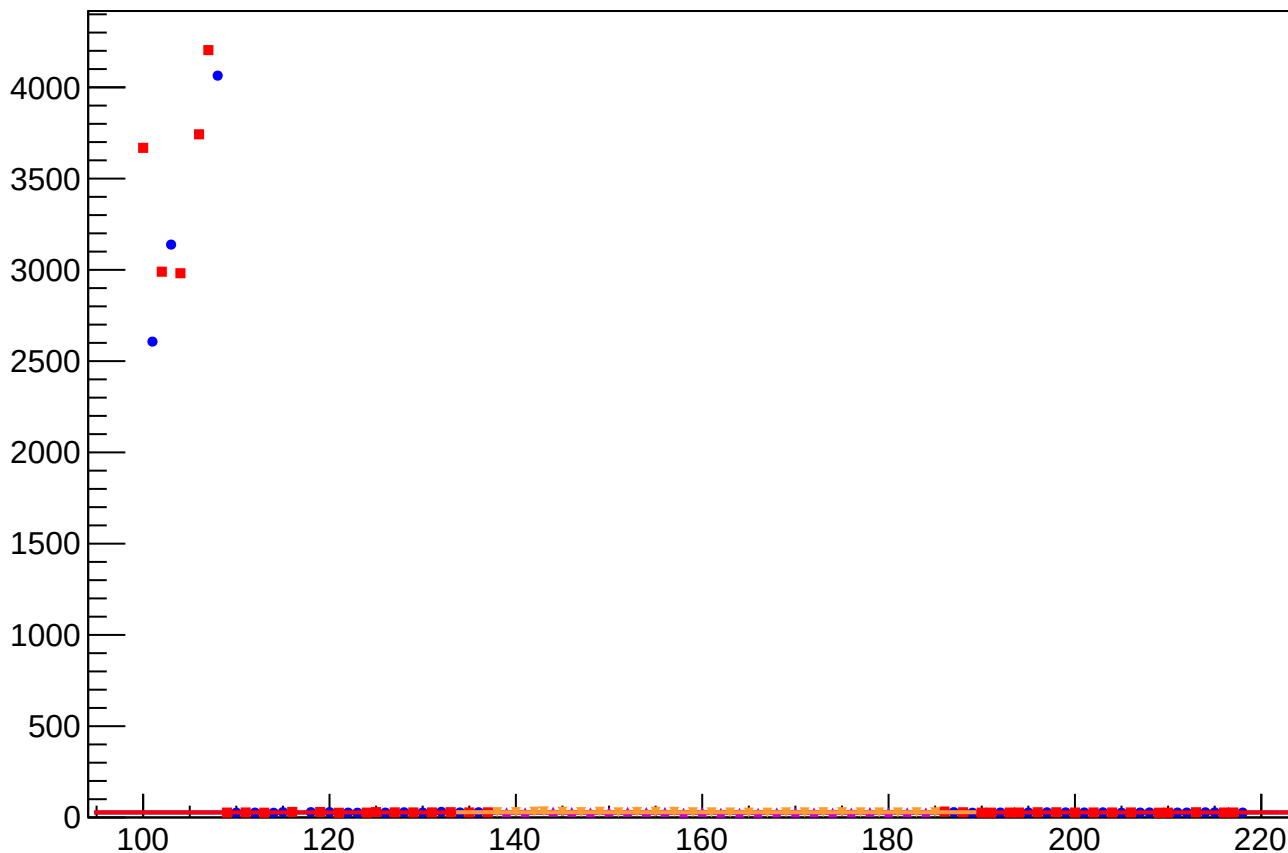
Right: 3.708+/-4.751 χ^2/NDF : 76.2/68

In: 2.675+/-4.812 χ^2/NDF : 68.8/55

Out: -7.220+/-4.737 χ^2/NDF : 67.1/60

All: -2.350+/-3.376 χ^2/NDF : 138.0/116

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.462 $\pm$ 0.005 χ^2 /NDF: 3045847.1/32

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.428 $\pm$ 0.005 χ^2 /NDF: 3514749.7/35

Left In: 28.673 $\pm$ 0.005 χ^2 /NDF: 124751.4/22

Left: 28.682 $\pm$ 0.003 χ^2 /NDF: 235242.3/47

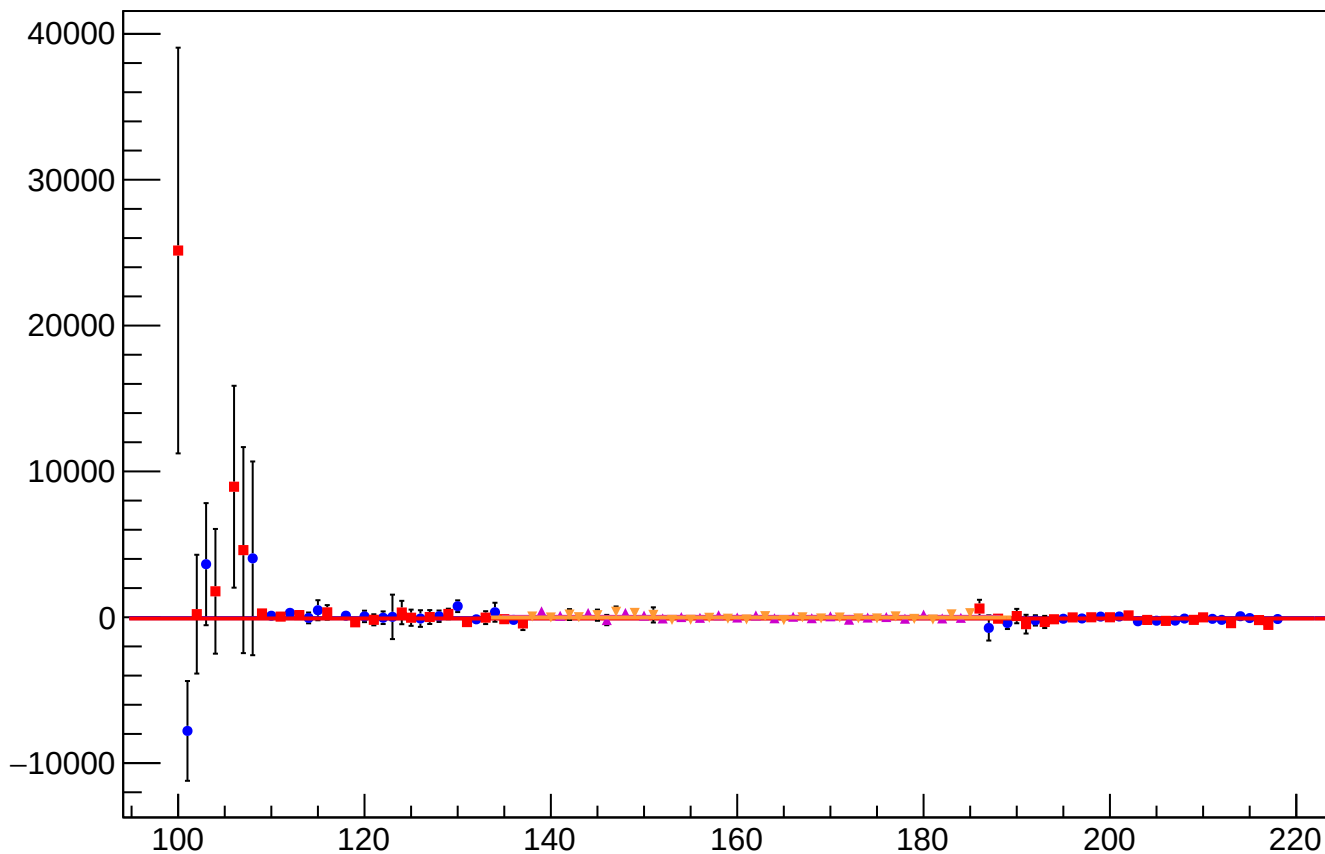
Right: 27.445 $\pm$ 0.003 χ^2 /NDF: 6560623.3/68

In: 28.054 $\pm$ 0.003 χ^2 /NDF: 3202228.2/55

Out: 28.060 $\pm$ 0.003 χ^2 /NDF: 3660783.9/60

All: 28.057 $\pm$ 0.002 χ^2 /NDF: 6863013.7/116

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.863 ± 43.987 $\chi^2/\text{NDF}: 22.2/32$

Left Out: -15.483 ± 48.109 $\chi^2/\text{NDF}: 8.7/24$

Right Out: -85.435 ± 44.424 $\chi^2/\text{NDF}: 25.5/35$

Left In: 27.009 ± 45.785 $\chi^2/\text{NDF}: 7.8/22$

Left: 6.815 ± 33.166 $\chi^2/\text{NDF}: 16.9/47$

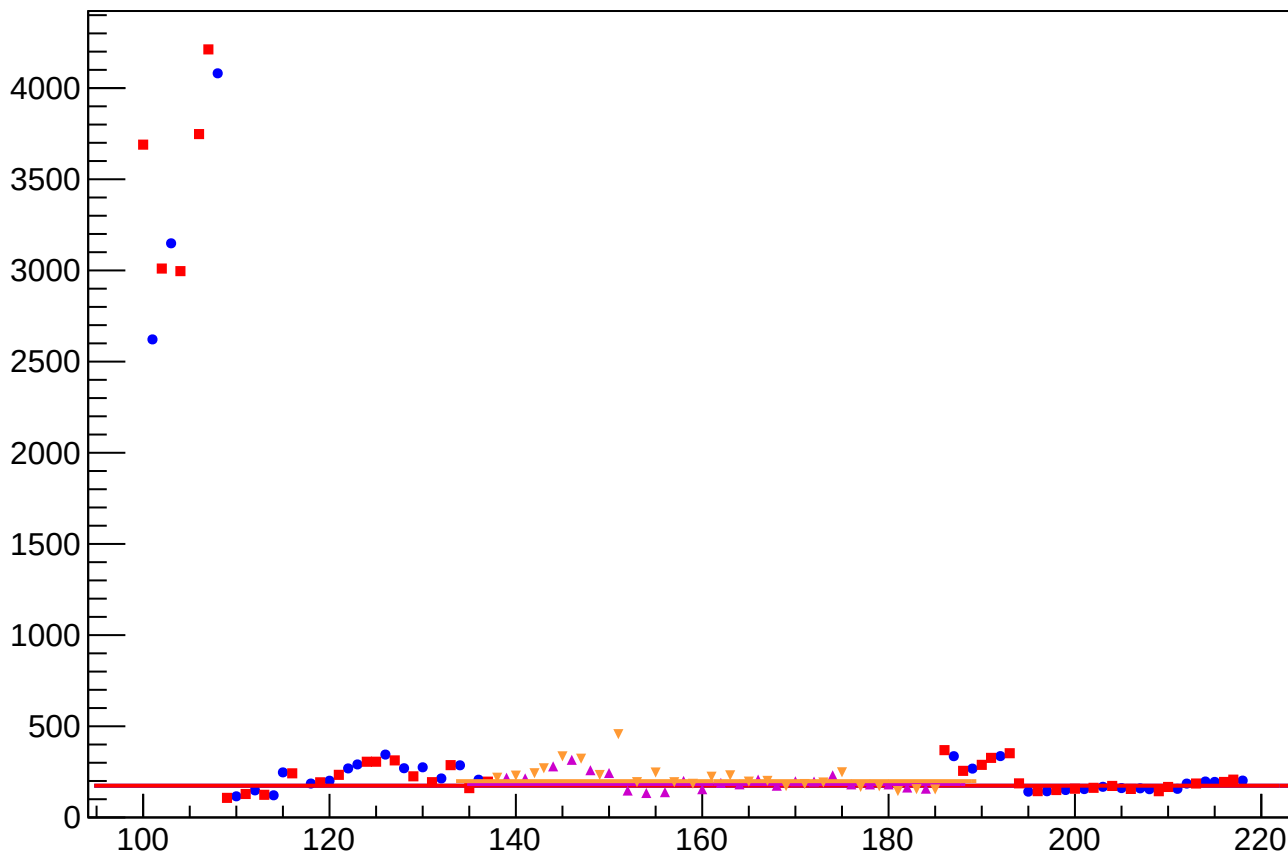
Right: -72.523 ± 31.257 $\chi^2/\text{NDF}: 47.8/68$

In: -18.165 ± 31.720 $\chi^2/\text{NDF}: 31.9/55$

Out: -53.241 ± 32.637 $\chi^2/\text{NDF}: 35.3/60$

All: -35.203 ± 22.747 $\chi^2/\text{NDF}: 67.7/116$

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.806 $\pm$ 0.031 χ^2 /NDF: 4611297.5/32

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 174.218 $\pm$ 0.031 χ^2 /NDF: 5479006.4/35

Left In: 183.667 $\pm$ 0.032 χ^2 /NDF:1422895.7/22

Left: 190.999 $\pm$ 0.023 χ^2 /NDF: 3411149.8/47

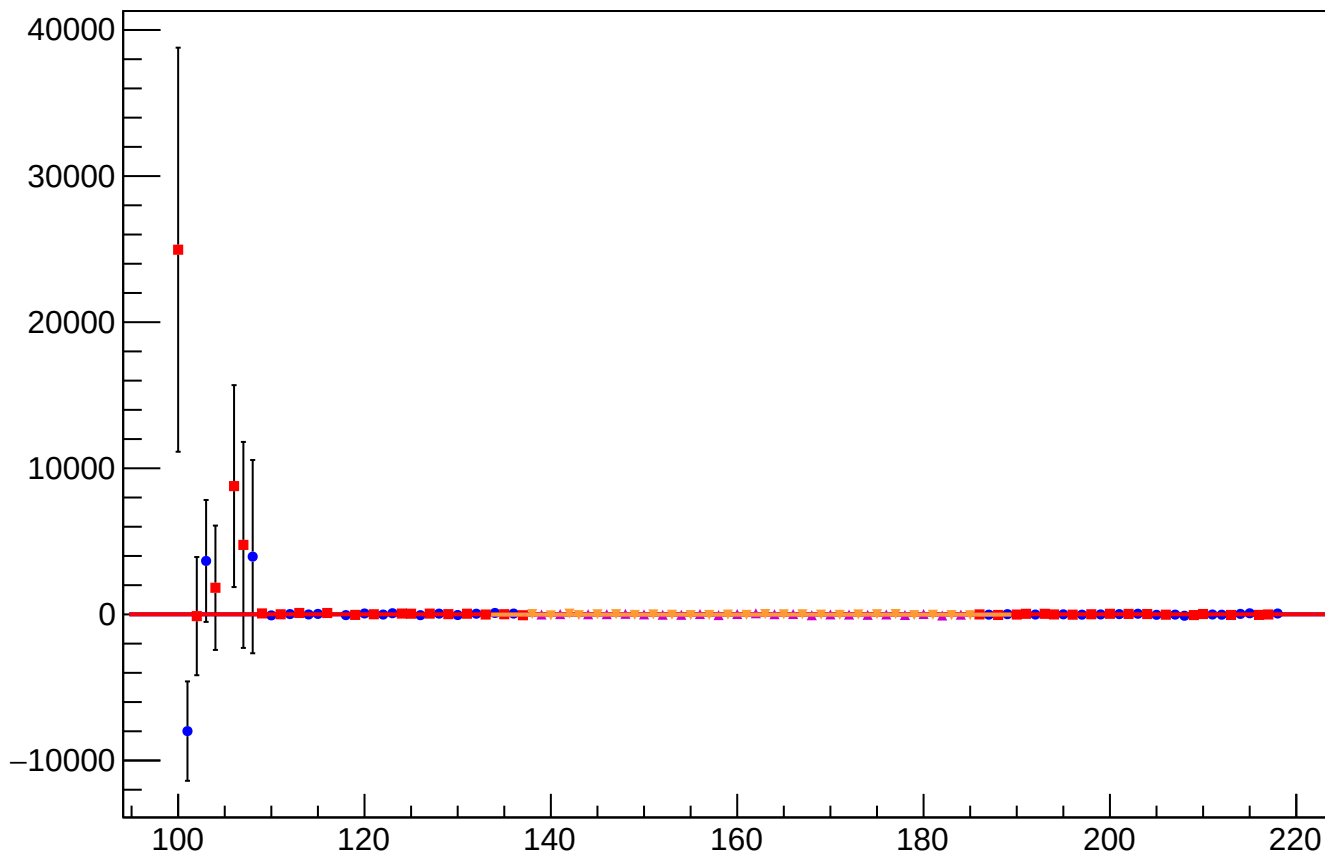
Right: 174.010 $\pm$ 0.022 χ^2 /NDF: 10090390.8/68

In: 178.539 $\pm$ 0.022 χ^2 /NDF:6082441.8/55

Out: 185.667 $\pm$ 0.023 χ^2 /NDF:7647979.7/60

All: 182.001 $\pm$ 0.016 χ^2 /NDF: 13779473.3/117

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.072 $\pm$ 6.687 χ^2 /NDF: 45.1/32

Left Out: -15.006 $\pm$ 6.723 χ^2 /NDF:17.5/24

Right Out: 6.464 $\pm$ 6.671 χ^2 /NDF: 34.9/35

Left In: -0.702 $\pm$ 6.909 χ^2 /NDF:26.4/22

Left: -8.049 $\pm$ 4.819 χ^2 /NDF: 46.0/47

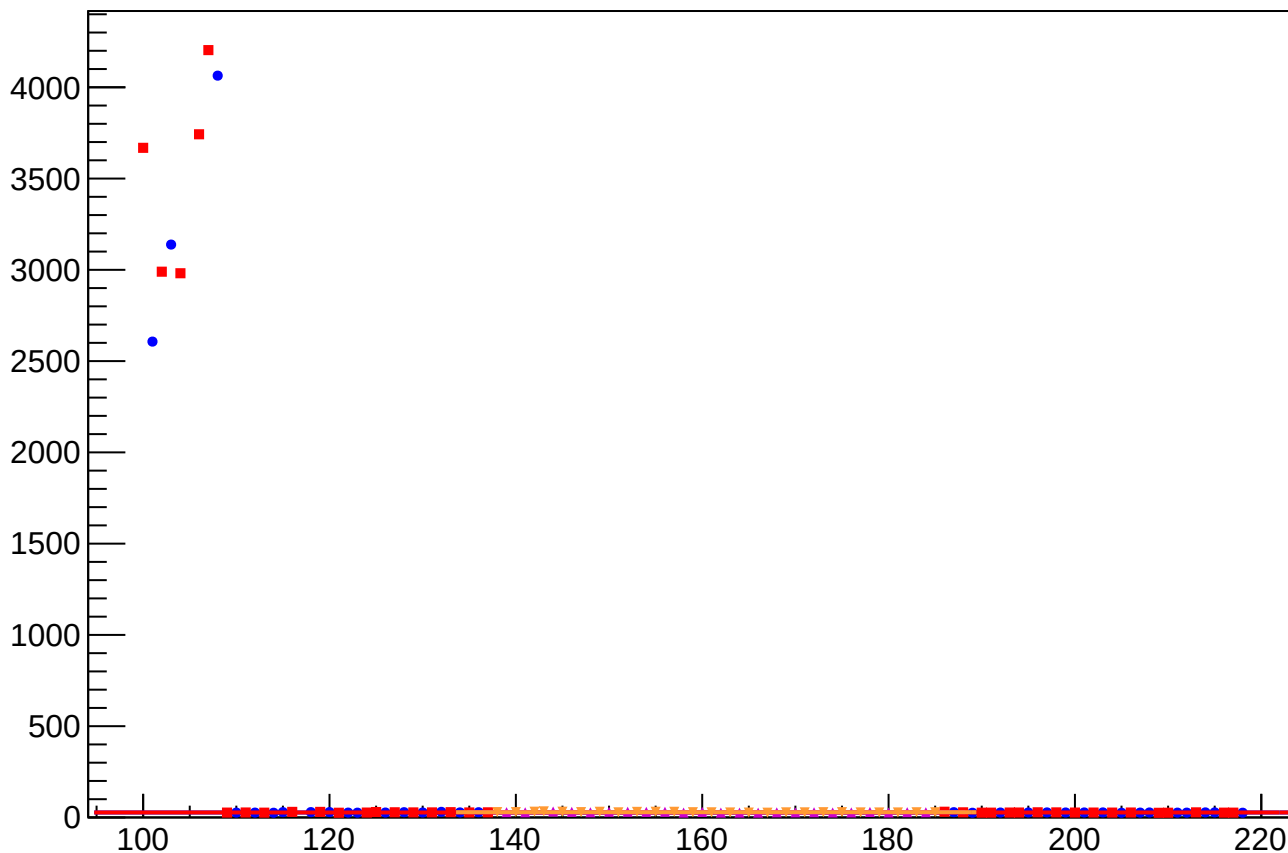
Right: 5.770 $\pm$ 4.723 χ^2 /NDF: 80.0/68

In: 2.279 $\pm$ 4.805 χ^2 /NDF:71.8/55

Out: -4.188 $\pm$ 4.736 χ^2 /NDF:57.5/60

All: -1.001 $\pm$ 3.373 χ^2 /NDF: 130.2/116

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.273+/-0.005 χ^2 /NDF: 3056507.0/32

Left Out: 28.813+/-0.005 χ^2 /NDF:121973.8/24

Right Out: 27.285+/-0.005 χ^2 /NDF: 3521474.2/35

Left In: 28.792+/-0.005 χ^2 /NDF:129393.1/22

Left: 28.803+/-0.003 χ^2 /NDF: 251375.8/47

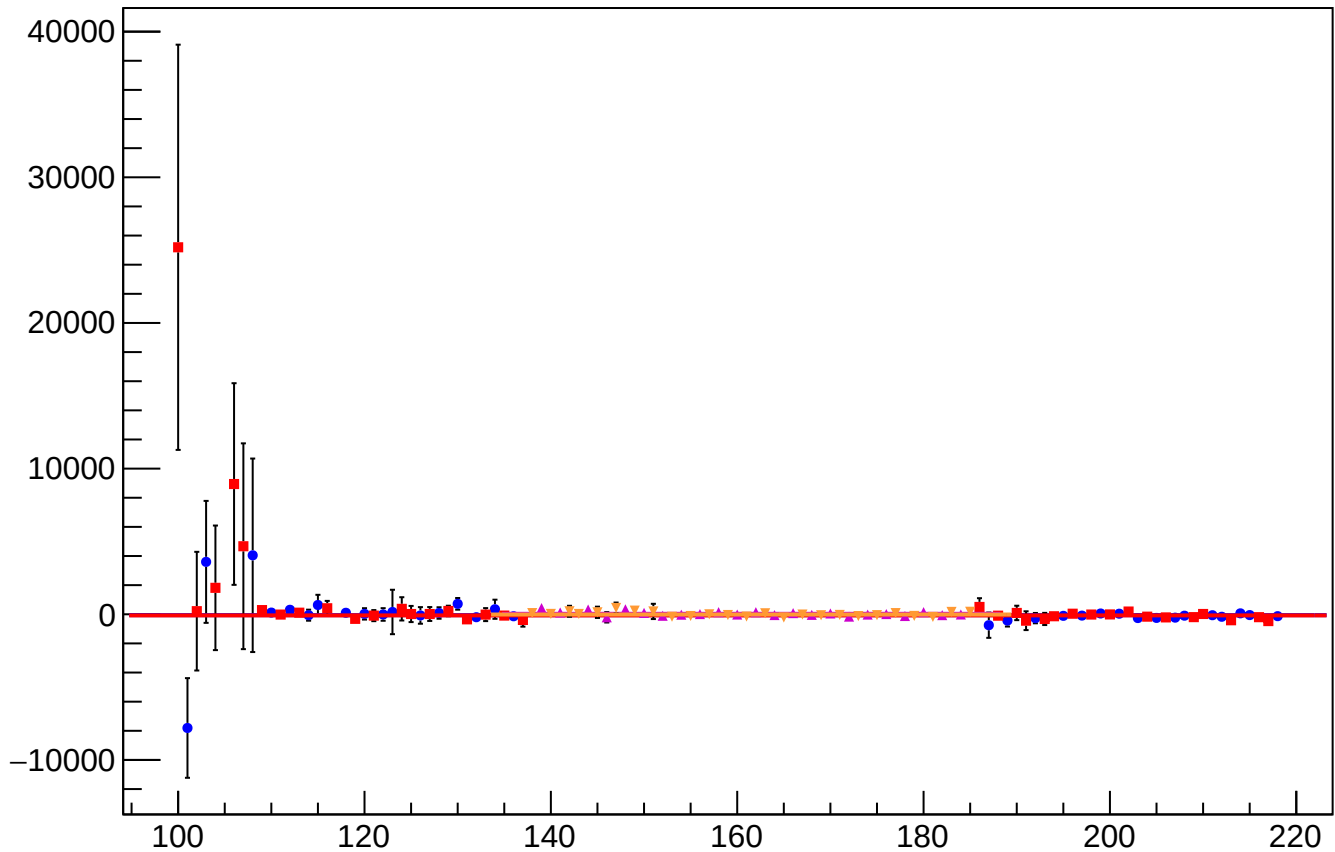
Right: 27.279+/-0.003 χ^2 /NDF: 6577984.4/68

In: 28.008+/-0.003 χ^2 /NDF:3235870.7/55

Out: 28.043+/-0.003 χ^2 /NDF:3695505.3/60

All: 28.025+/-0.002 χ^2 /NDF: 6931429.8/116

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.322 ± 44.277 χ^2/NDF : 22.3/32

Left Out: -15.548 ± 48.688 χ^2/NDF : 8.0/24

Right Out: -76.806 ± 44.743 χ^2/NDF : 24.3/35

Left In: 31.170 ± 46.359 χ^2/NDF : 8.2/22

Left: 8.955 ± 33.574 χ^2/NDF : 16.6/47

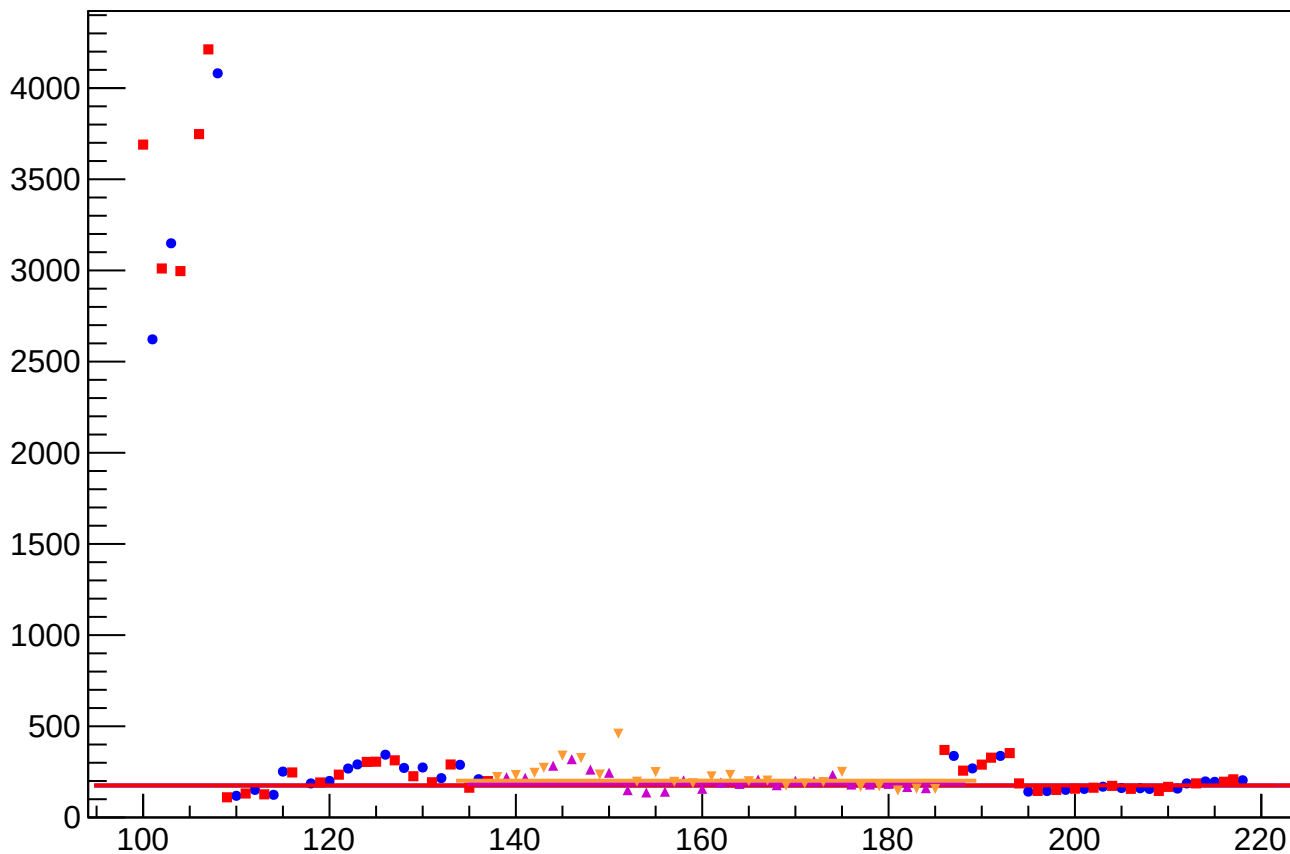
Right: -67.973 ± 31.472 χ^2/NDF : 46.7/68

In: -16.153 ± 32.019 χ^2/NDF : 32.5/55

Out: -48.759 ± 32.944 χ^2/NDF : 33.1/60

All: -31.992 ± 22.961 χ^2/NDF : 66.1/116

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.048+/-0.031 χ^2/NDF : 4576055.3/32

Left Out: 201.600+/-0.034 χ^2/NDF : 1857453.2/24

Right Out: 175.657+/-0.032 χ^2/NDF : 5418628.2/35

Left In: 186.107+/-0.033 χ^2/NDF : 1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

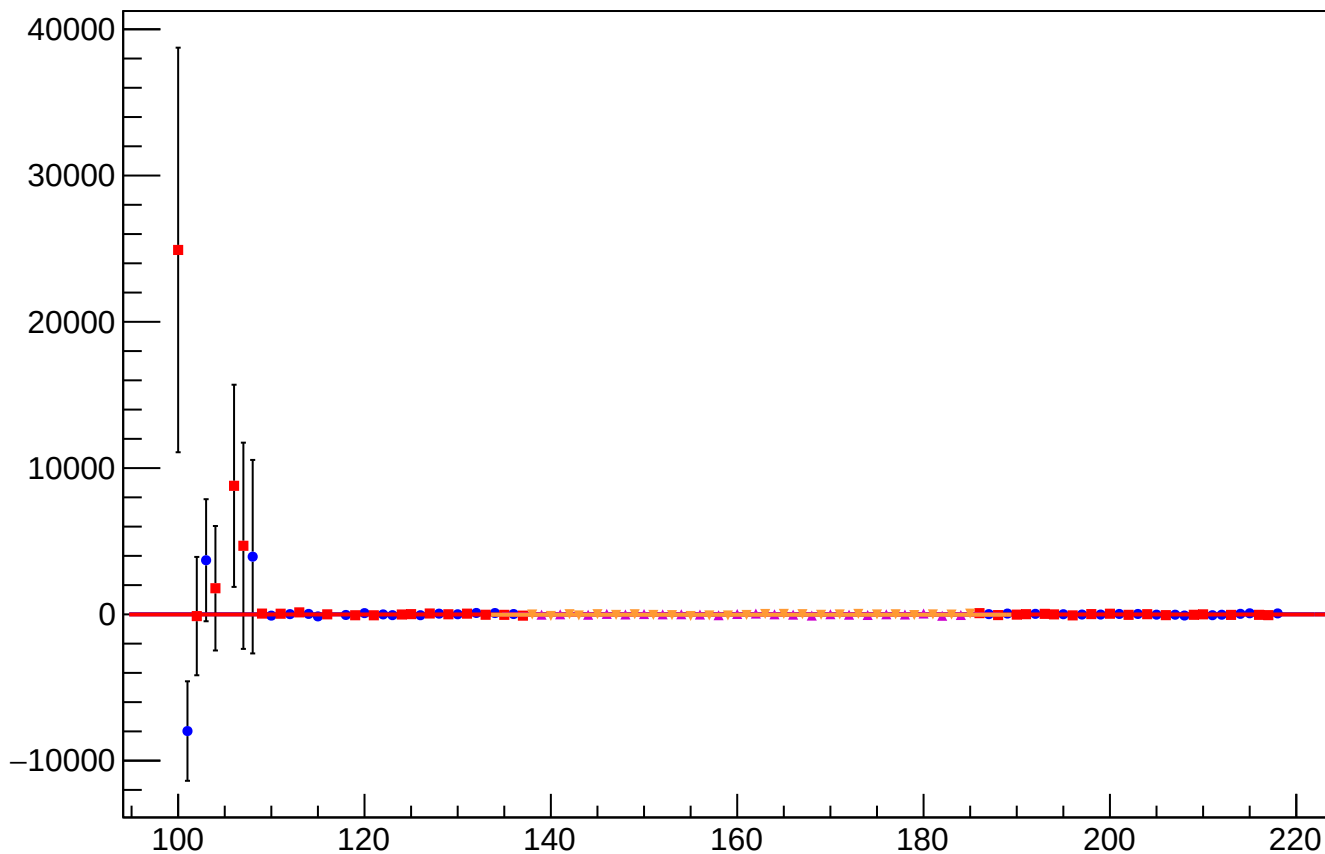
Right: 175.349+/-0.022 χ^2/NDF : 9994871.1/68

In: 180.323+/-0.023 χ^2/NDF : 6026905.1/55

Out: 187.535+/-0.023 χ^2/NDF : 7583931.4/60

All: 183.827+/-0.016 χ^2/NDF : 13660120.3/131

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.200 ± 8.160 $\chi^2/\text{NDF}: 38.0/32$

Left Out: -23.360 ± 8.064 $\chi^2/\text{NDF}: 25.8/24$

Right Out: -6.374 ± 8.142 $\chi^2/\text{NDF}: 38.1/35$

Left In: -6.001 ± 8.309 $\chi^2/\text{NDF}: 21.1/22$

Left: -14.939 ± 5.787 $\chi^2/\text{NDF}: 49.2/47$

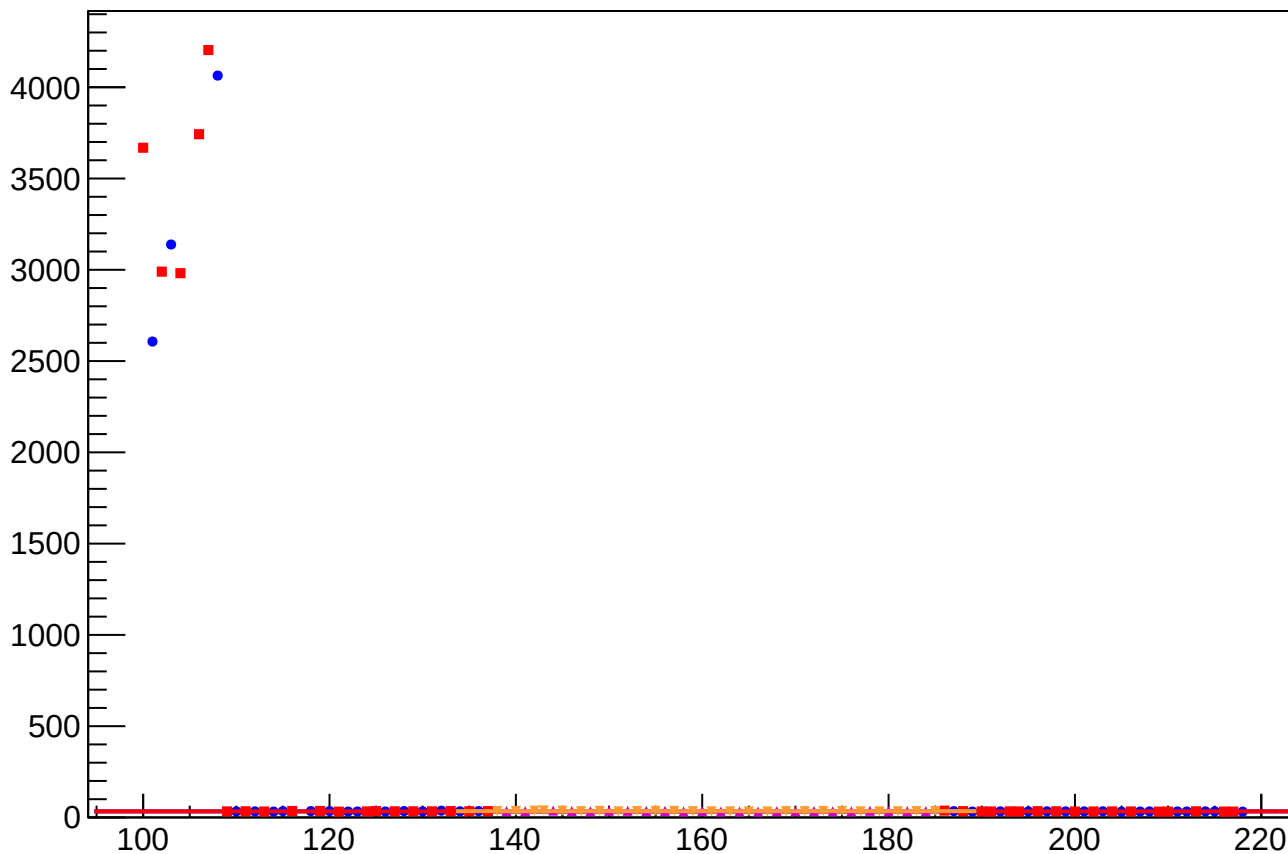
Right: 0.397 ± 5.764 $\chi^2/\text{NDF}: 77.5/68$

In: 0.719 ± 5.822 $\chi^2/\text{NDF}: 60.4/55$

Out: -14.948 ± 5.730 $\chi^2/\text{NDF}: 66.1/60$

All: -7.240 ± 4.084 $\chi^2/\text{NDF}: 130.2/116$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.302 $\pm$ 0.006 χ^2 /NDF: 3024832.4/32

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.343 $\pm$ 0.006 χ^2 /NDF: 3478617.5/35

Left In: 34.685 $\pm$ 0.006 χ^2 /NDF: 60315.2/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 118335.7/47

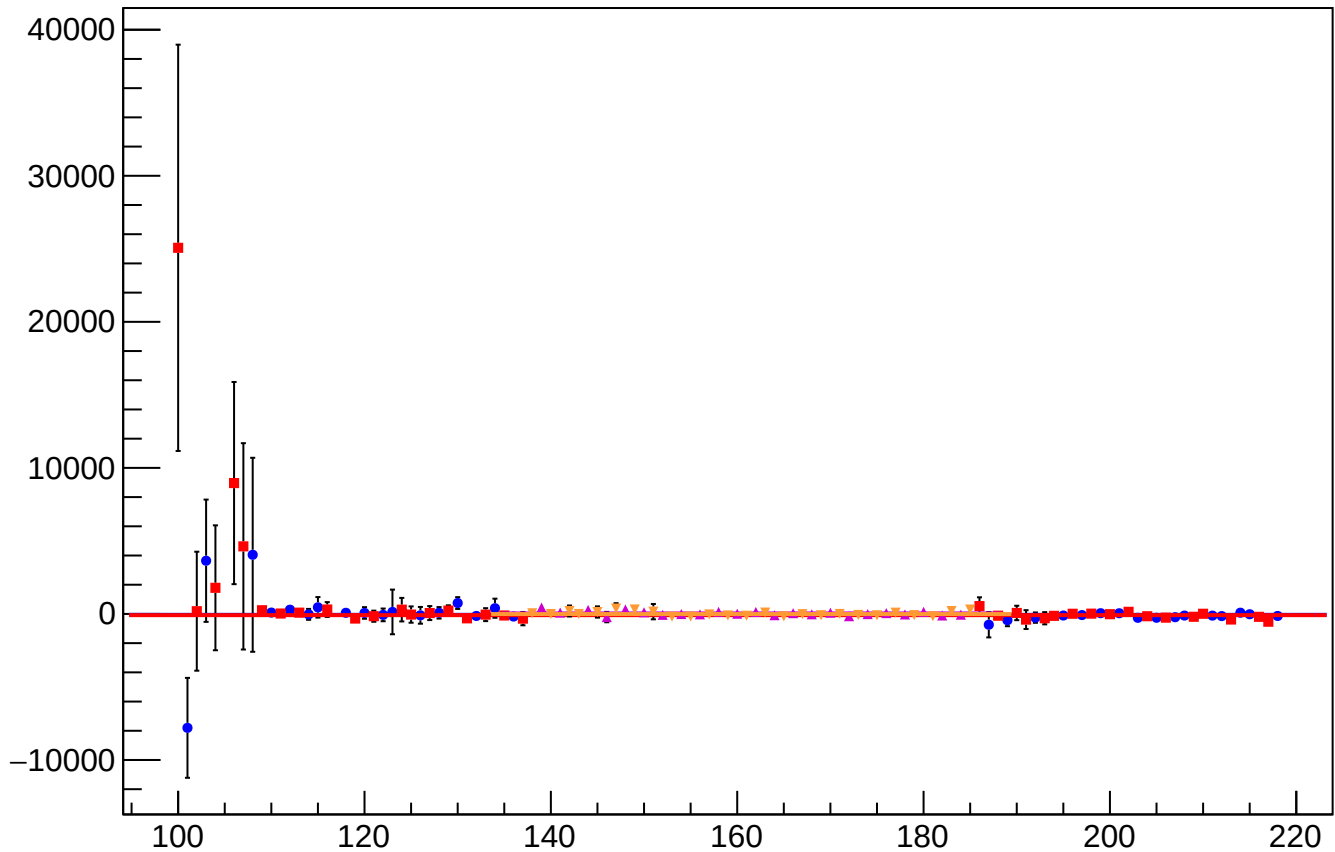
Right: 33.323 $\pm$ 0.004 χ^2 /NDF: 6503475.6/68

In: 33.981 $\pm$ 0.004 χ^2 /NDF: 3113352.6/55

Out: 33.985 $\pm$ 0.004 χ^2 /NDF: 3561166.5/60

All: 33.983 $\pm$ 0.003 χ^2 /NDF: 6674519.5/116

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -62.366+/-44.152 χ^2/NDF : 22.1/32

Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24

Right Out: -82.932+/-44.580 χ^2/NDF : 23.5/35

Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47

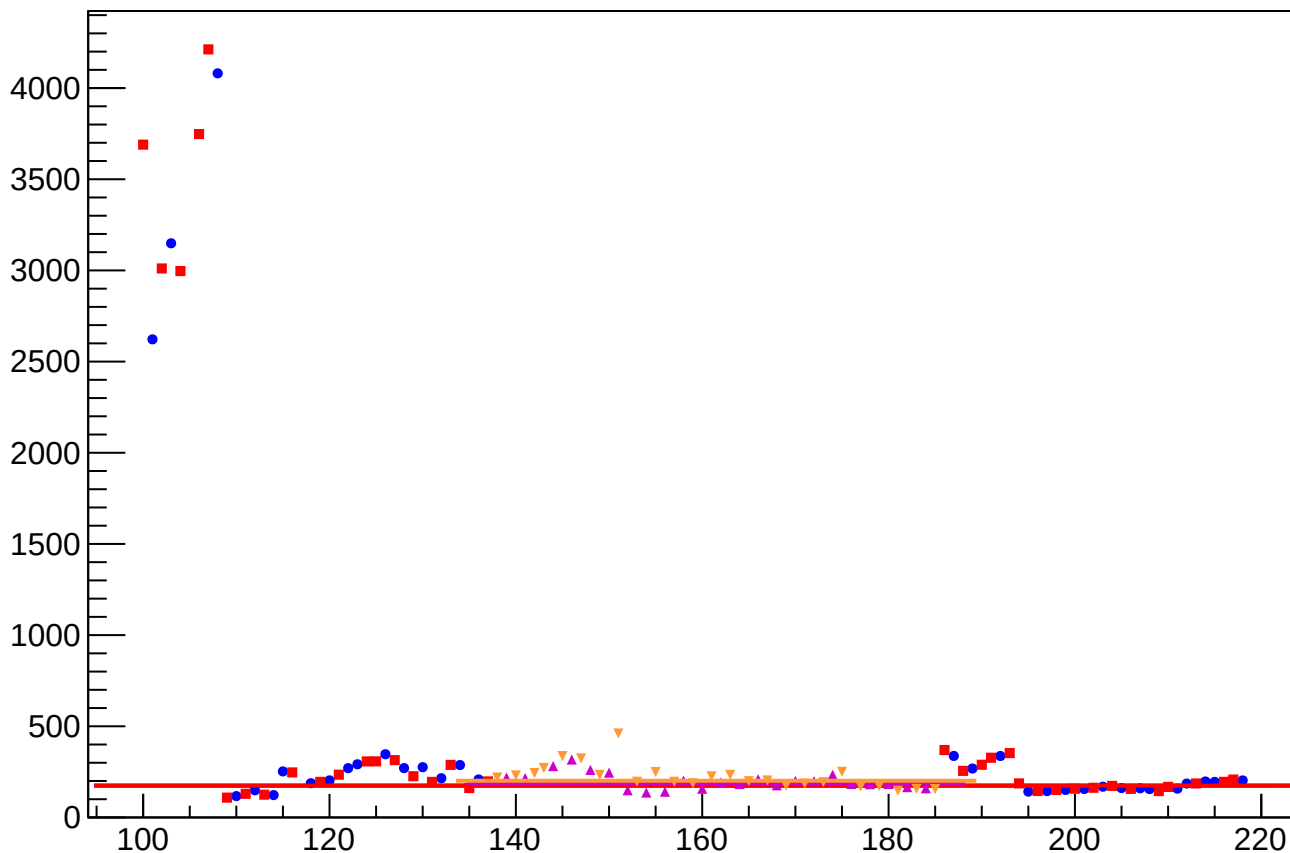
Right: -72.550+/-31.370 χ^2/NDF : 45.8/68

In: -16.406+/-31.951 χ^2/NDF : 31.8/55

Out: -49.123+/-32.857 χ^2/NDF : 33.4/60

All: -32.307+/-22.906 χ^2/NDF : 65.7/116

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.475+/-0.031 χ^2/NDF : 4606113.1/32

Left Out: 201.296+/-0.034 χ^2/NDF :1851134.1/24

Right Out: 174.873+/-0.032 χ^2/NDF : 5467139.6/35

Left In: 185.854+/-0.033 χ^2/NDF :1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

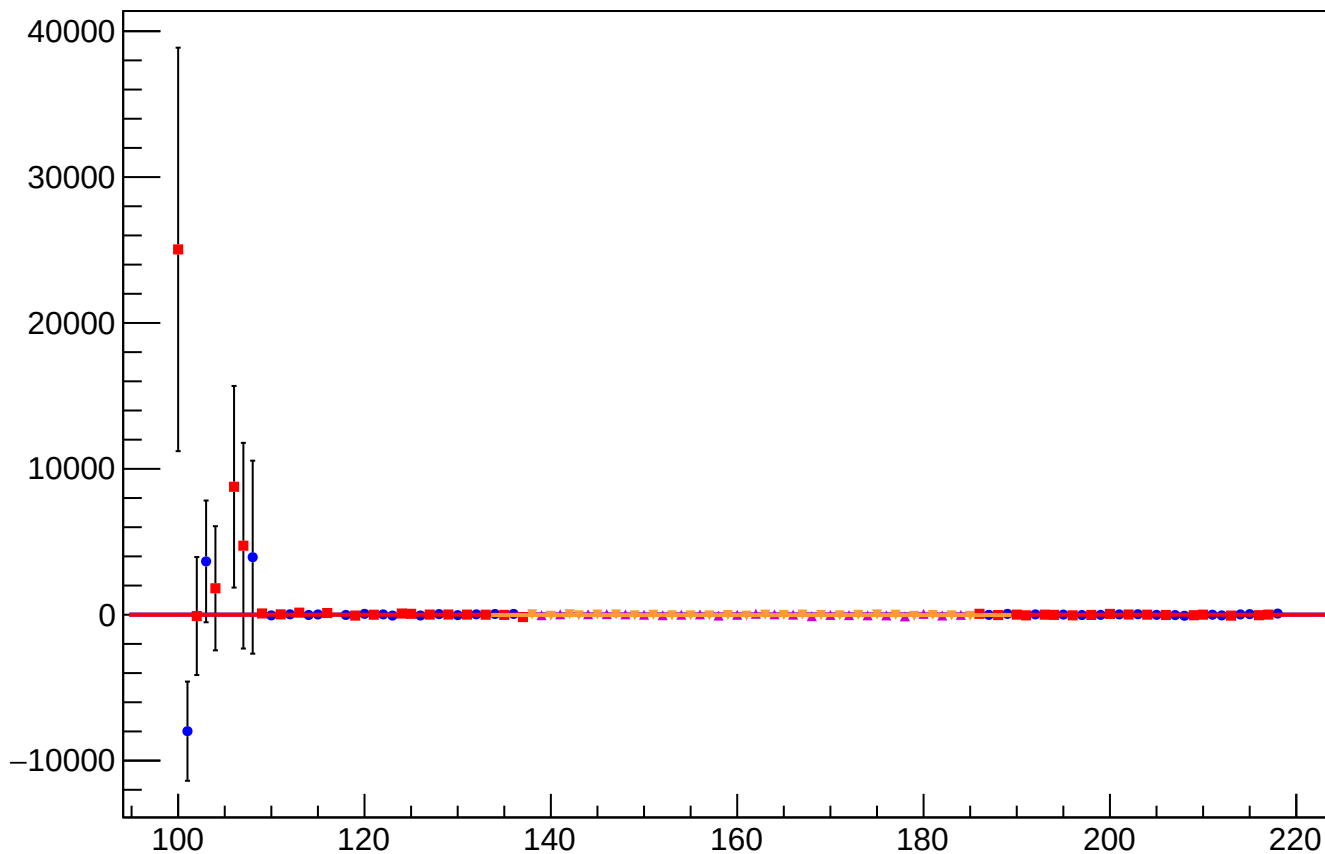
Right: 174.672+/-0.022 χ^2/NDF : 10073332.9/68

In: 179.895+/-0.023 χ^2/NDF :6051152.3/55

Out: 186.943+/-0.023 χ^2/NDF :7639229.5/60

All: 183.320+/-0.016 χ^2/NDF : 13737675.4/11

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 8.898+/-7.379 χ^2/NDF : 32.0/32

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 0.923+/-7.363 χ^2/NDF : 42.8/35

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

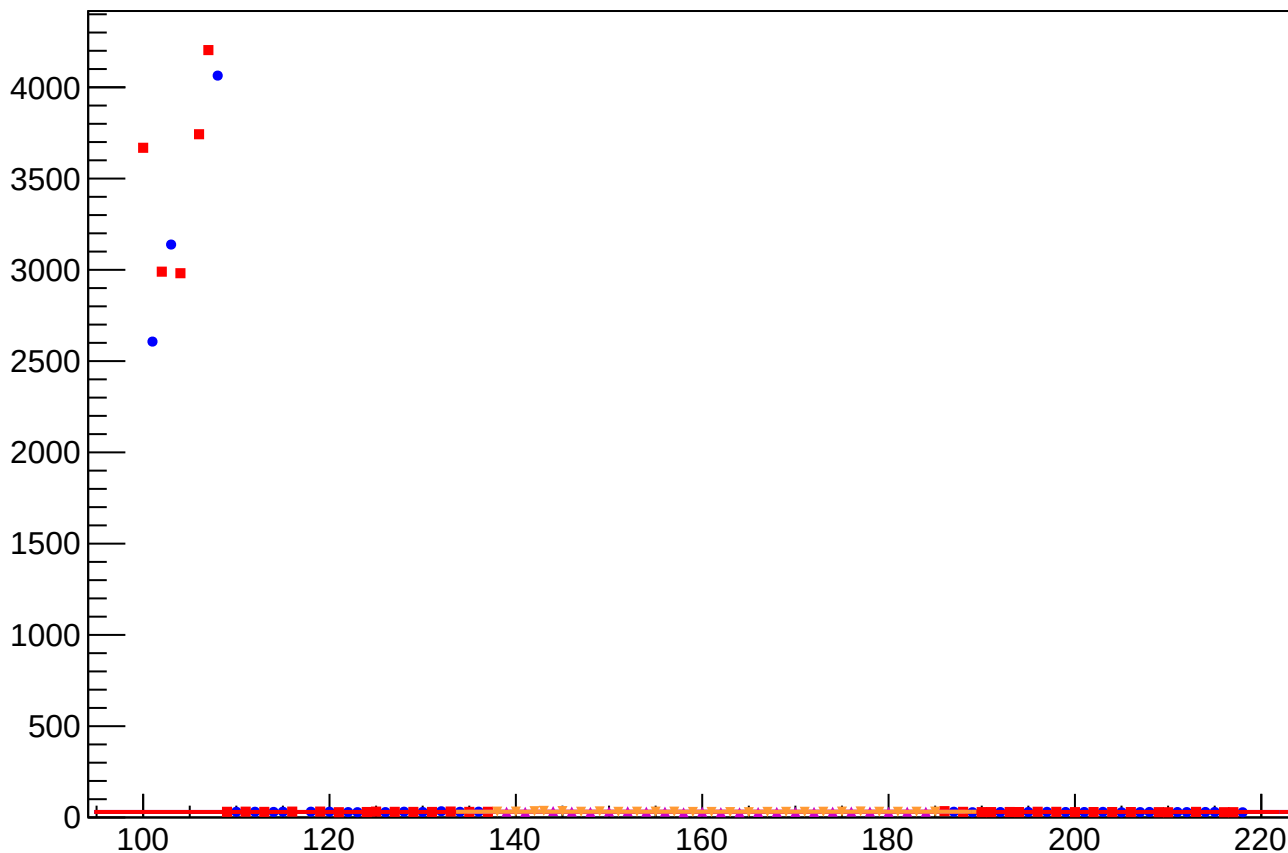
Right: 4.902+/-5.212 χ^2/NDF : 75.3/68

In: 1.647+/-5.277 χ^2/NDF : 72.3/55

Out: -11.015+/-5.198 χ^2/NDF : 66.8/60

All: -4.779+/-3.703 χ^2/NDF : 142.0/116

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.104+/-0.005 χ^2/NDF : 3045014.5/32

Left Out: 31.482+/-0.005 χ^2/NDF :82437.2/24

Right Out: 30.129+/-0.005 χ^2/NDF : 3498825.1/35

Left In: 31.484+/-0.005 χ^2/NDF :87981.1/22

Left: 31.483+/-0.004 χ^2/NDF : 170418.5/47

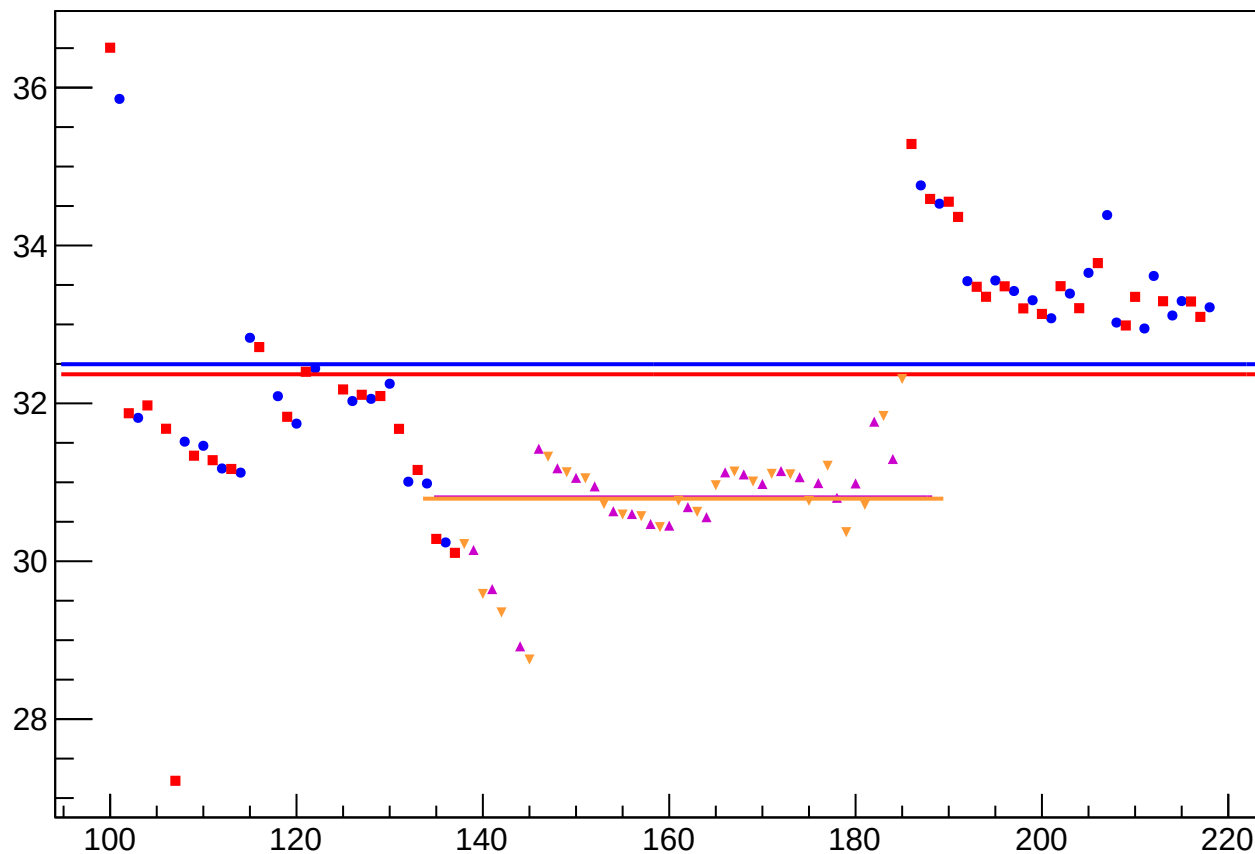
Right: 30.117+/-0.004 χ^2/NDF : 6543851.5/68

In: 30.778+/-0.004 χ^2/NDF :3167194.9/55

Out: 30.808+/-0.004 χ^2/NDF :3615101.7/60

All: 30.793+/-0.003 χ^2/NDF : 6782327.7/116

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.496+/-0.000

χ^2/NDF : 3067889453.4/31

Left Out: 30.793+/-0.000

χ^2/NDF : 1007261340.7/23

Right Out: 32.368+/-0.000

χ^2/NDF : 2638690024.2/34

Left In: 30.809+/-0.000

χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000

χ^2/NDF : 1829591088.1/46

Right: 32.434+/-0.000

χ^2/NDF : 5723248609.3/66

In: 31.557+/-0.000

χ^2/NDF : 7251368779.4/54

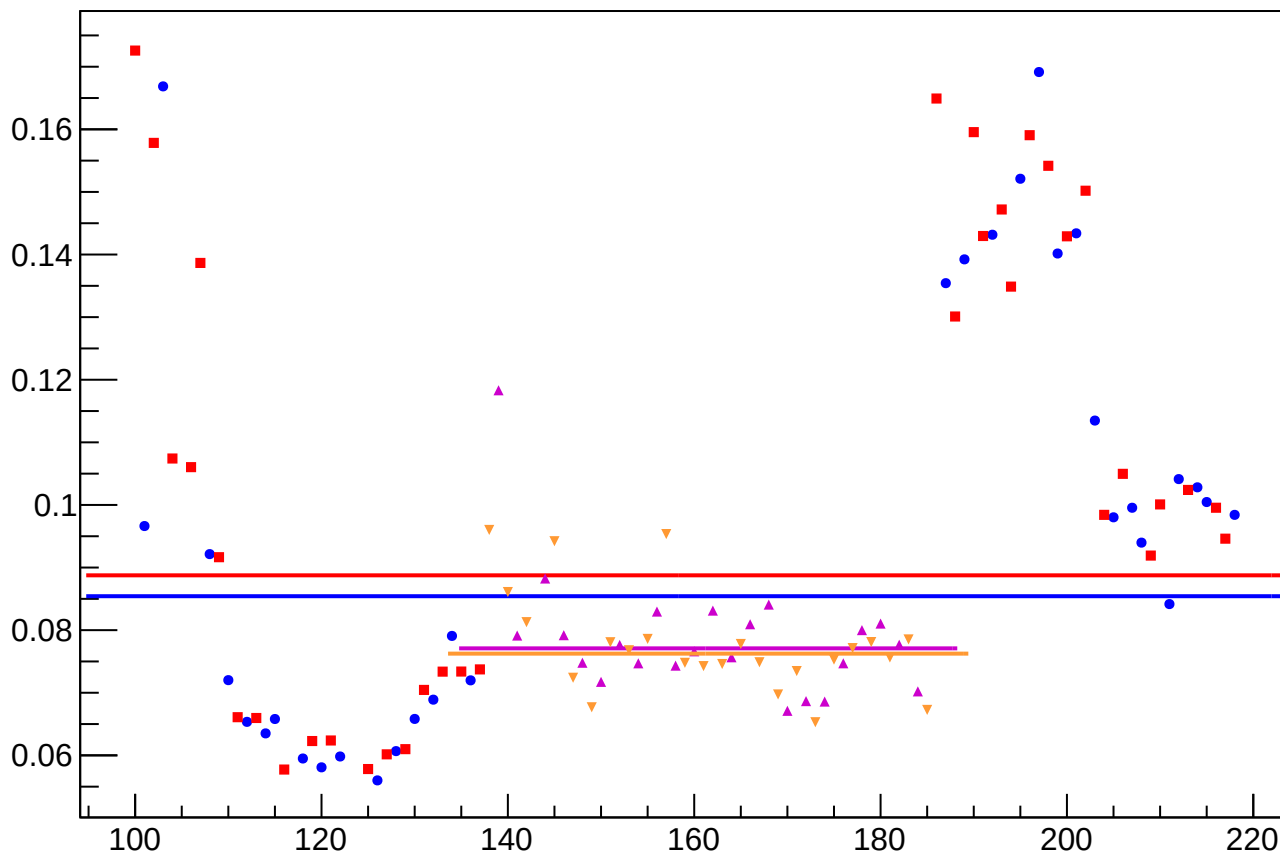
Out: 31.453+/-0.000

χ^2/NDF : 6517009860.1/58

All: 31.505+/-0.000

χ^2/NDF : 13794131745.1

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.085+/-0.000 χ^2/NDF : 3304031.0/31

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.089+/-0.000 χ^2/NDF : 3682716.1/34

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

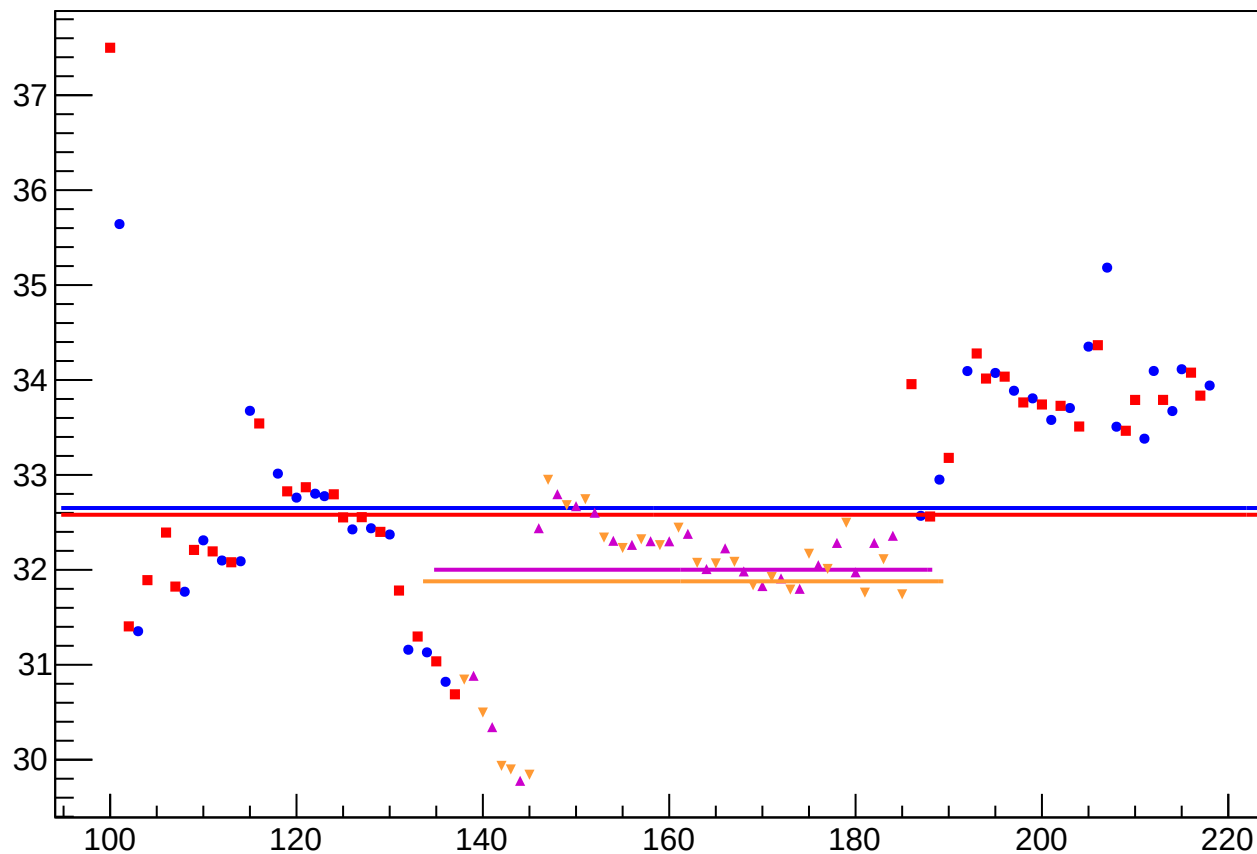
Right: 0.087+/-0.000 χ^2/NDF : 7009579.9/66

In: 0.081+/-0.000 χ^2/NDF : 3793922.4/54

Out: 0.081+/-0.000 χ^2/NDF : 4322372.7/58

All: 0.081+/-0.000 χ^2/NDF : 8118667.1/113

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.651+/-0.000 χ^2/NDF : 1693454564.7/32

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.580+/-0.000 χ^2/NDF : 1031885991.1/34

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

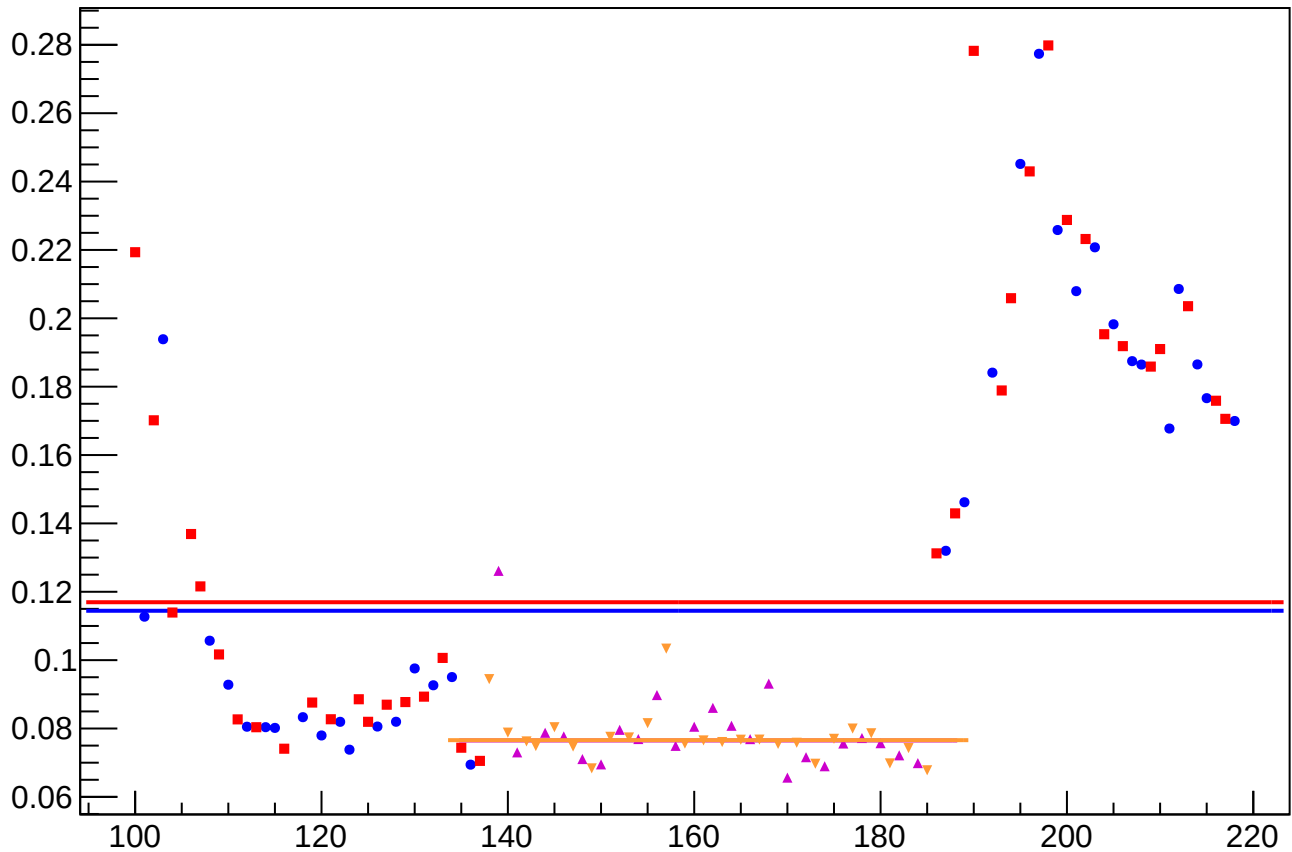
Right: 32.616+/-0.000 χ^2/NDF : 2728031385.8/67

In: 32.184+/-0.000 χ^2/NDF : 3431456318.6/55

Out: 32.068+/-0.000 χ^2/NDF : 3389185765.0/59

All: 32.125+/-0.000 χ^2/NDF : 6846902788.6/111

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.114+/-0.000 χ^2/NDF : 5793230.0/32

Left Out: 0.077+/-0.000 χ^2/NDF : 209648.5/24

Right Out: 0.117+/-0.000 χ^2/NDF : 5389564.6/34

Left In: 0.076+/-0.000 χ^2/NDF : 432563.3/22

Left: 0.077+/-0.000 χ^2/NDF : 642235.6/47

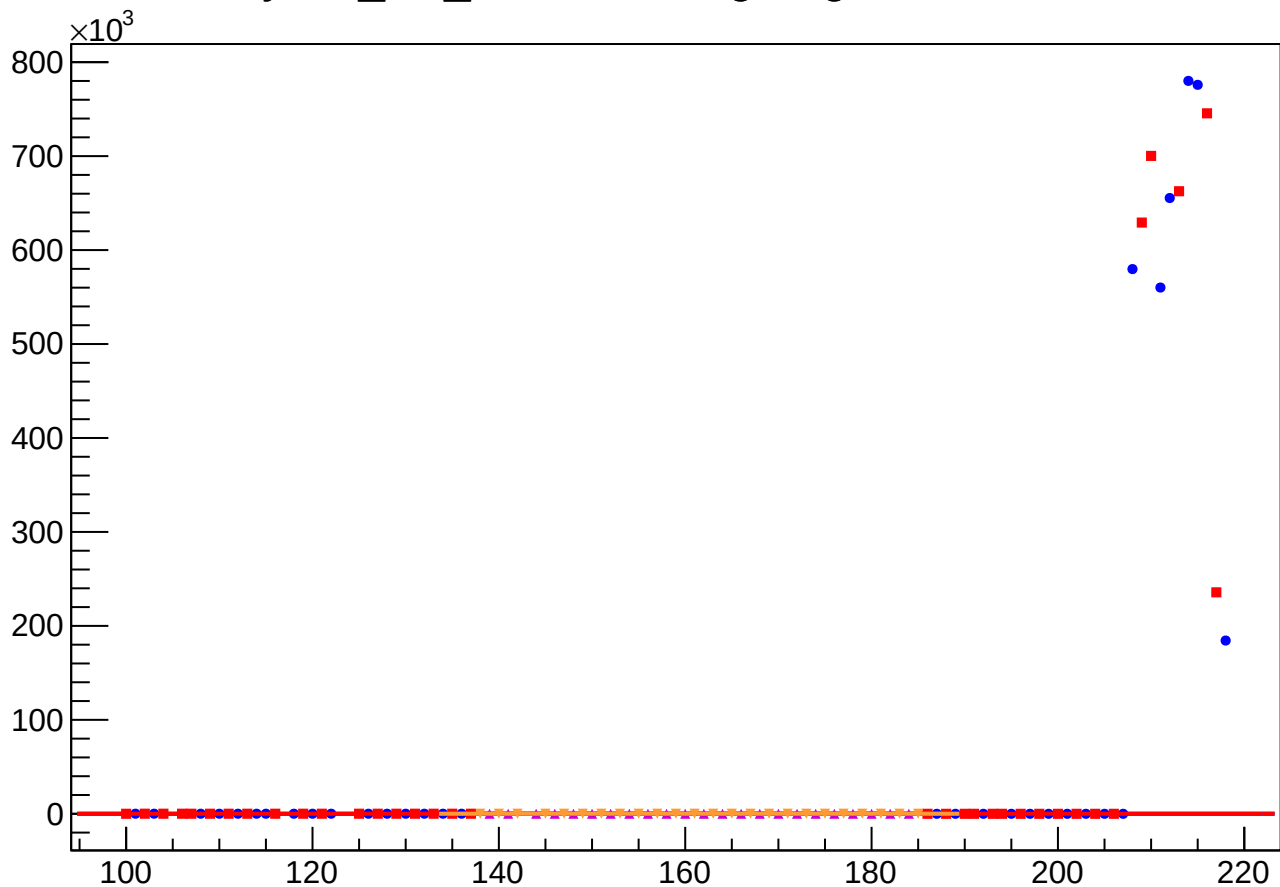
Right: 0.116+/-0.000 χ^2/NDF : 11189456.8/67

In: 0.087+/-0.000 χ^2/NDF : 8453564.0/55

Out: 0.087+/-0.000 χ^2/NDF : 8122500.0/59

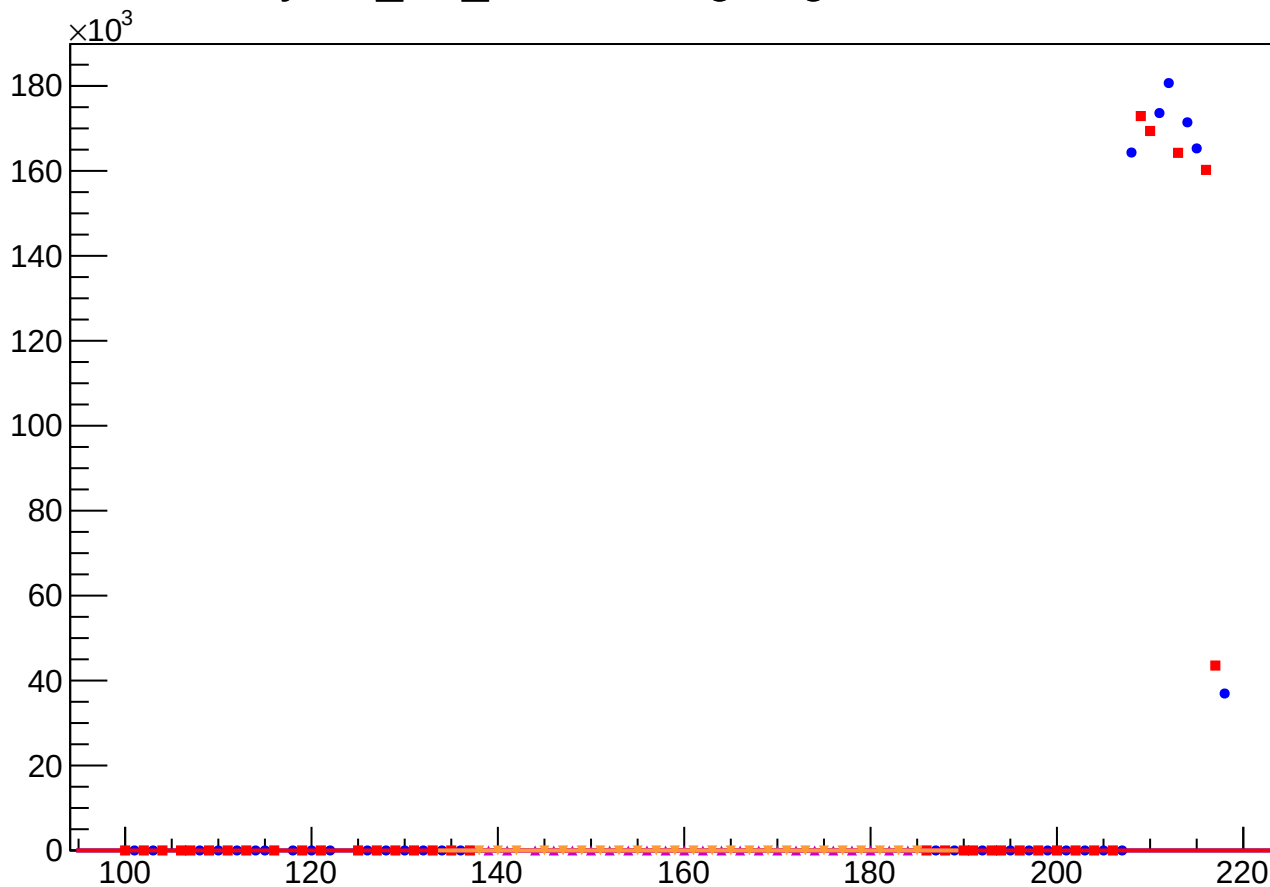
All: 0.087+/-0.000 χ^2/NDF : 16576357.4/115

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000	χ^2/NDF : 10853566355060.2/31	Left: 83.355+/-0.000	χ^2/NDF : 17213898269.1/46
Left Out: 83.402+/-0.000	χ^2/NDF : 8756634444.3/23	Right: 52.782+/-0.000	χ^2/NDF : 22419941405976.4/
Right Out: 51.099+/-0.000	χ^2/NDF : 11528467569329.3/34	In: 71.422+/-0.000	χ^2/NDF : 13699403163756.3/54
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 69.320+/-0.000	χ^2/NDF : 15307020328749.0/54
		All: 70.353+/-0.000	χ^2/NDF : 2903834916817.1/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 8428897.0/31

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:206685.9/23

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 7156623.2/34

Left In: 0.045 $\pm$ 0.000 χ^2 /NDF:242885.4/22

Left: 0.045 $\pm$ 0.000 χ^2 /NDF: 450258.5/46

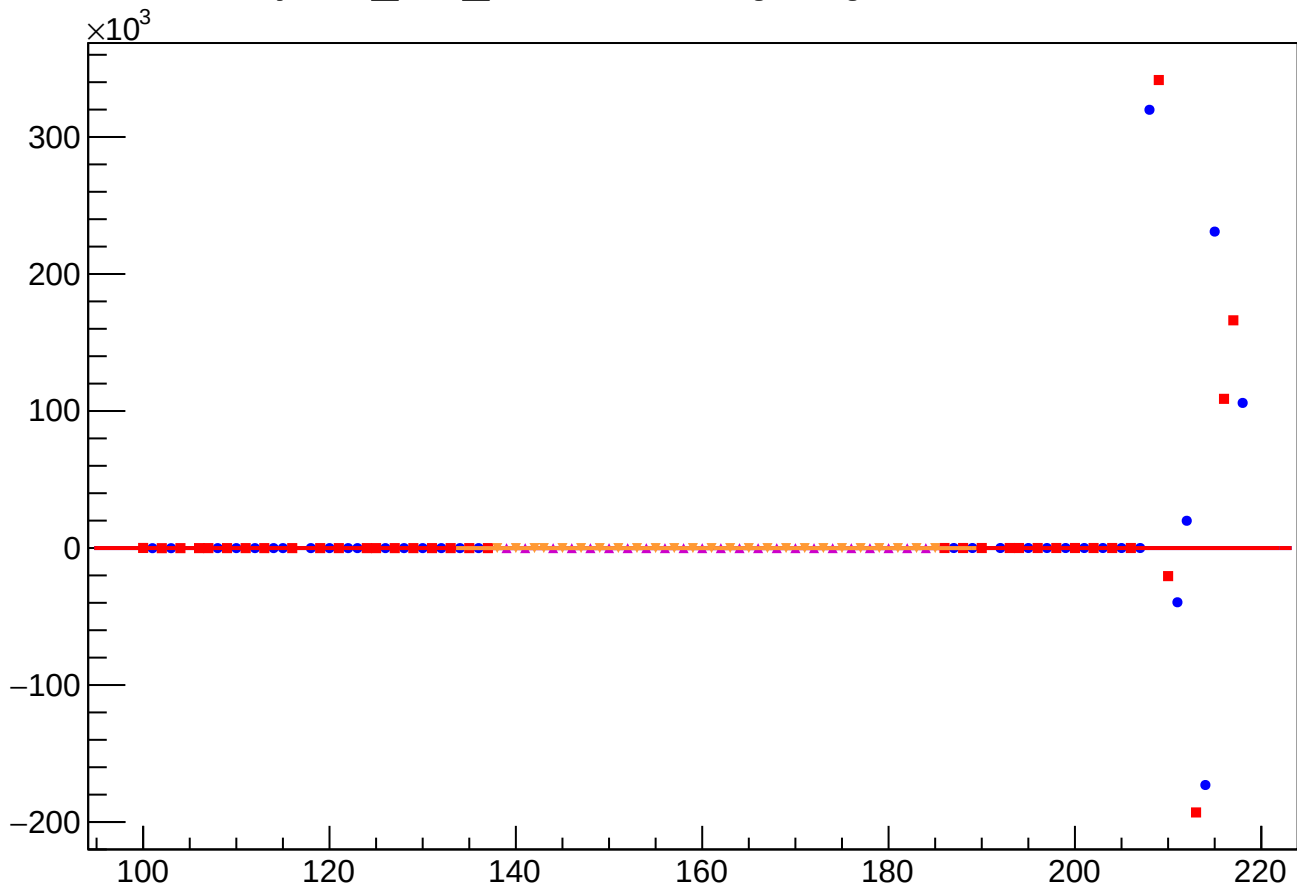
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 15585524.0/66

In: 0.046 $\pm$ 0.000 χ^2 /NDF:8698211.8/54

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:7382875.6/58

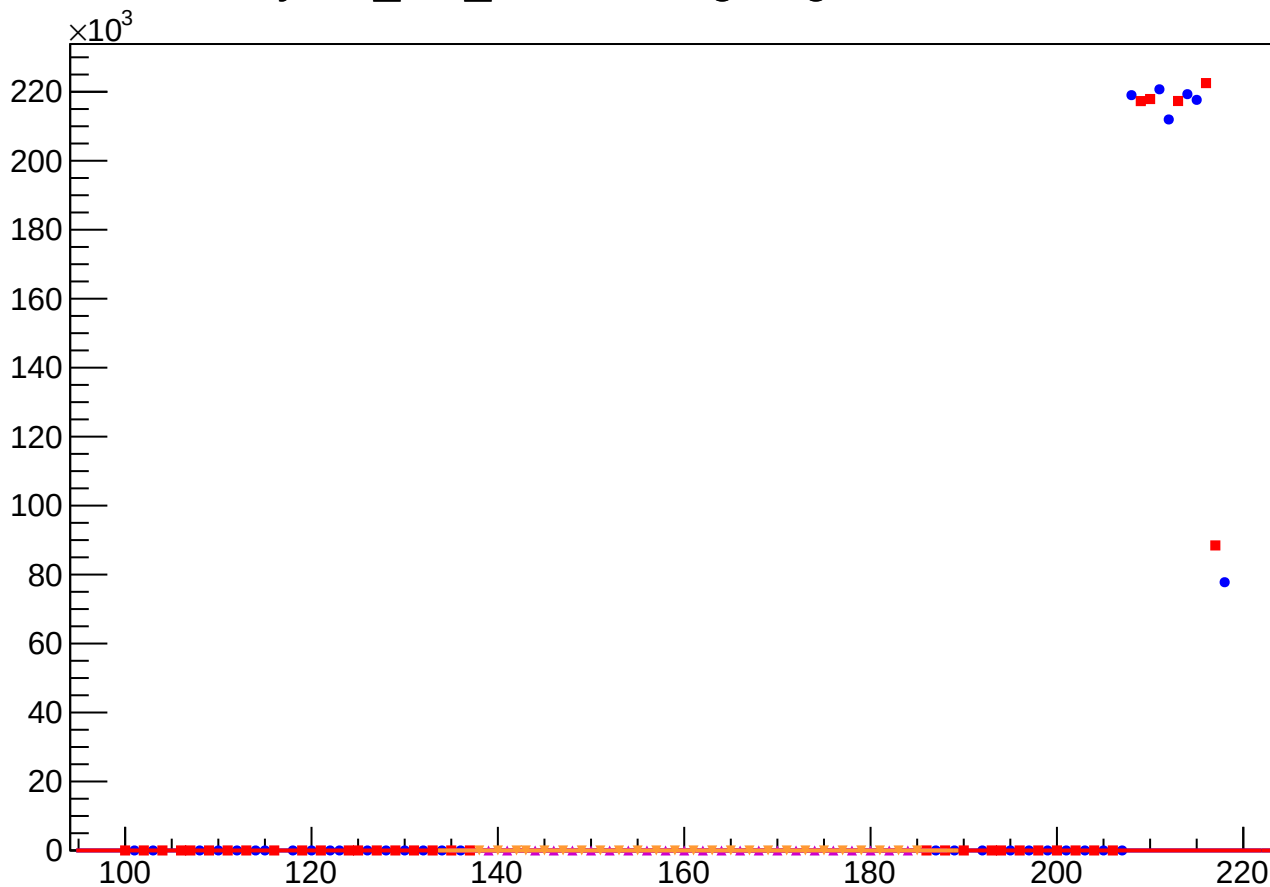
All: 0.046 $\pm$ 0.000 χ^2 /NDF: 16081630.5/113

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000	χ^2/NDF : 7479131092283.3/32	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -29.369+/-0.000	χ^2/NDF : 14808904668616.5
Right Out: -28.760+/-0.000	χ^2/NDF : 7325684169551.0/34	In: -50.762+/-0.000	χ^2/NDF : 11497072686750.2/5
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -50.075+/-0.000	χ^2/NDF : 11926093461632.8/
		All: -50.406+/-0.000	χ^2/NDF : 234256984783

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 8398639.8/32

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 7029606.5/34

Left In: 0.056 $\pm$ 0.000 χ^2 /NDF:52190.5/22

Left: 0.055 $\pm$ 0.000 χ^2 /NDF: 91784.6/47

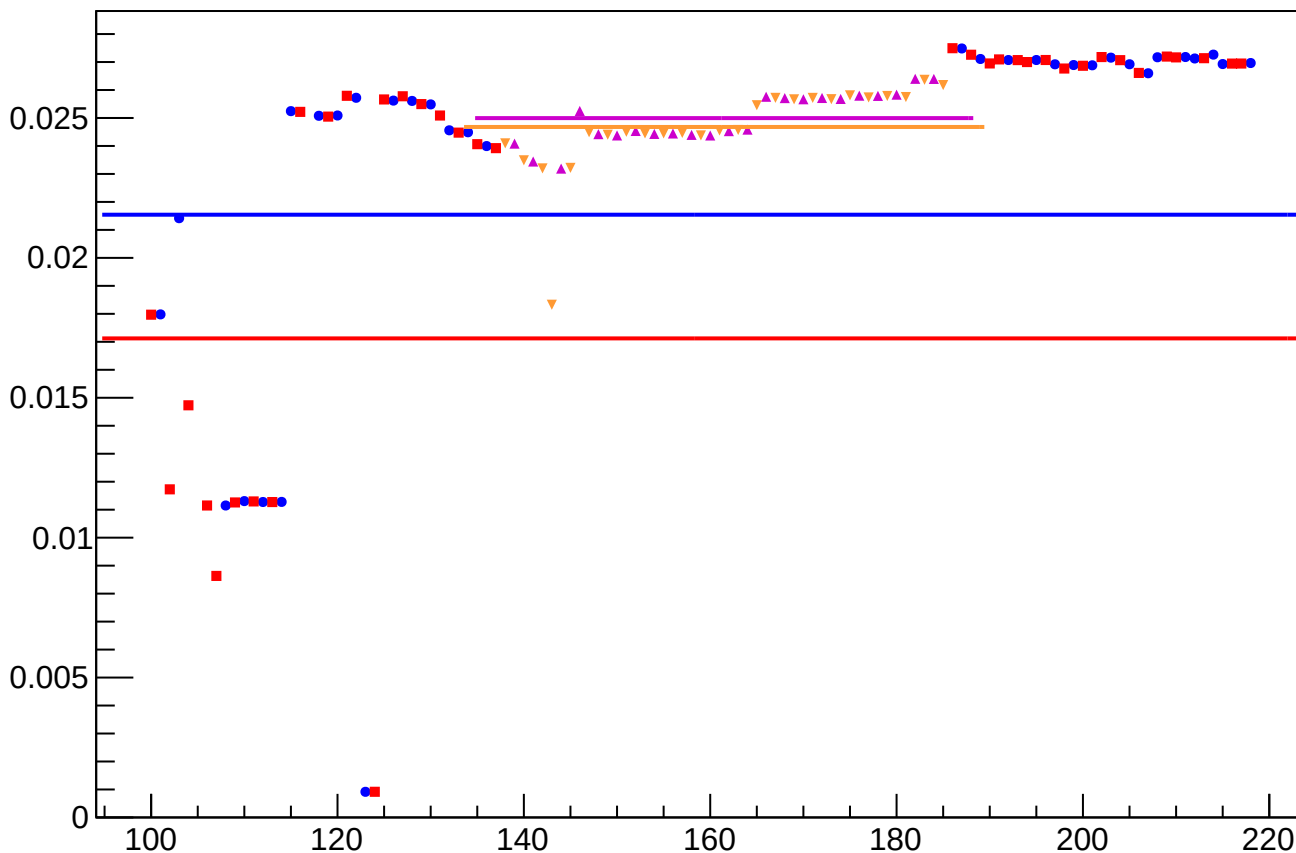
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 15428294.2/67

In: 0.054 $\pm$ 0.000 χ^2 /NDF:8512691.1/55

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:7124260.3/59

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 15637649.1/115

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.022+/-0.000

χ^2/NDF : 204709925183.1/32

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.019+/-0.000

χ^2/NDF : 690844861804.1/68

Right Out: 0.017+/-0.000

χ^2/NDF : 452809447865.2/35

In: 0.023+/-0.000

χ^2/NDF : 226803897581.1/55

Out: 0.021+/-0.000

χ^2/NDF : 569767958186.8/60

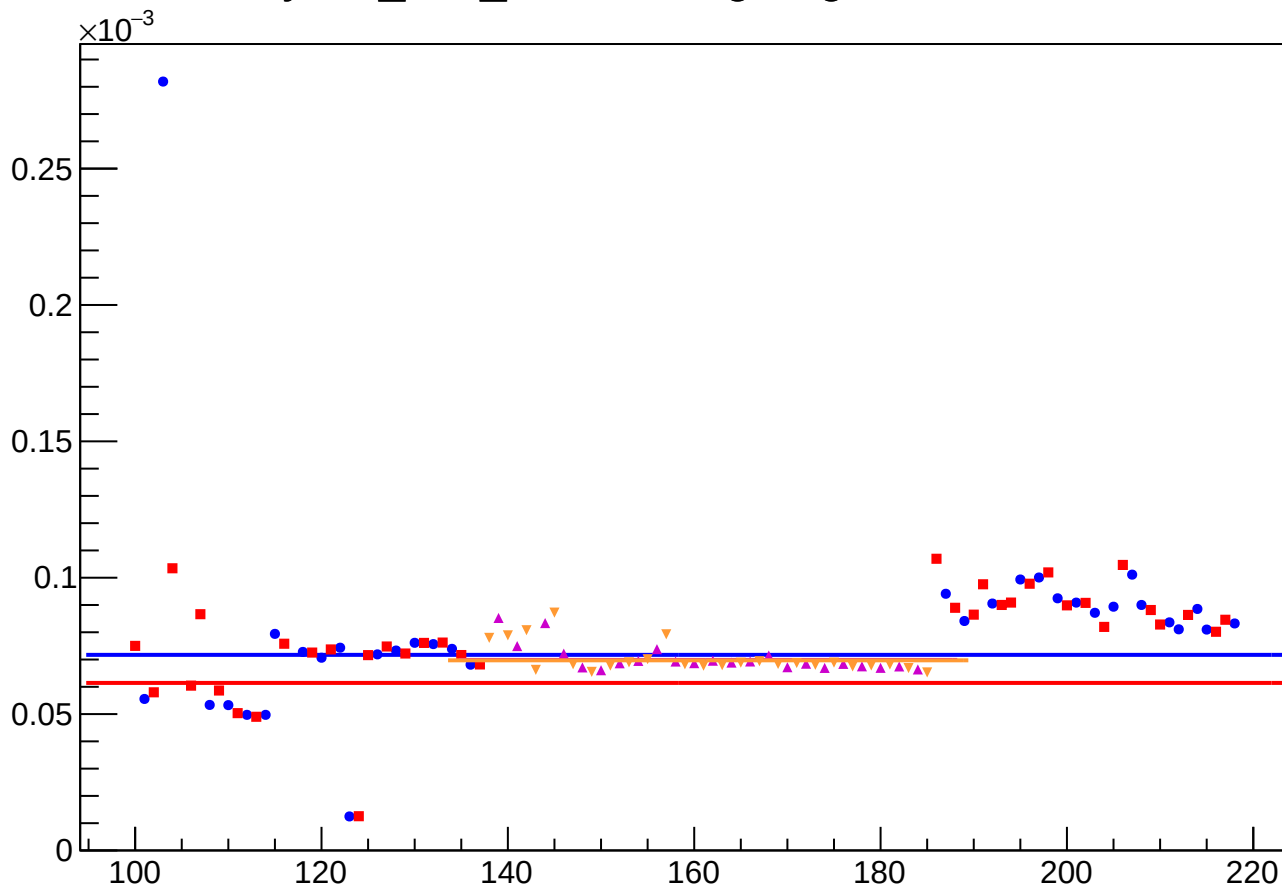
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 818926470260.1

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3677823.5/32

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7309054.8/35

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

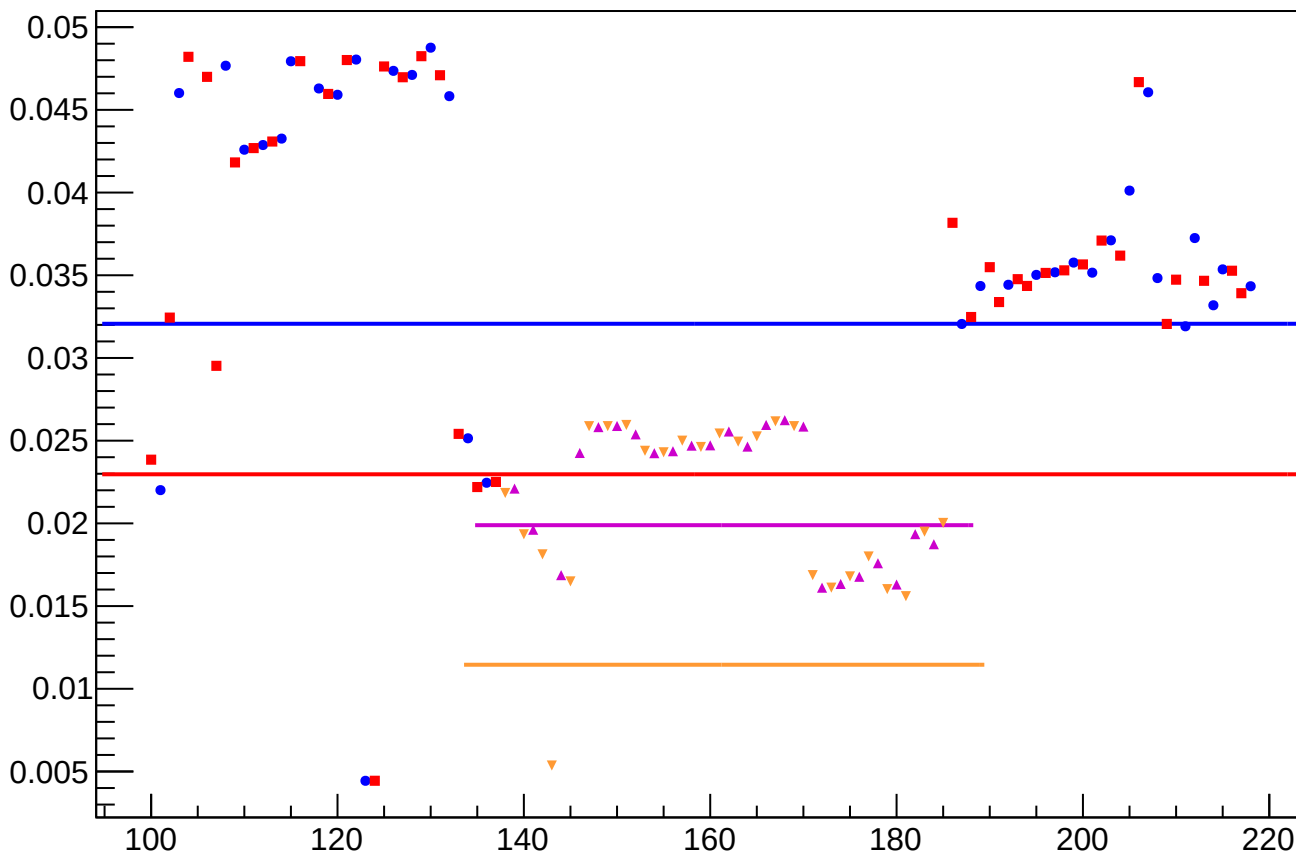
Right: 0.000+/-0.000 χ^2/NDF : 11347817.6/68

In: 0.000+/-0.000 χ^2/NDF :3818492.0/55

Out: 0.000+/-0.000 χ^2/NDF :7725305.4/60

All: 0.000+/-0.000 χ^2/NDF : 11734011.6/116

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 21821096921.2/32

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.027+/-0.000

χ^2/NDF : 72058805780.9/68

Right Out: 0.023+/-0.000

χ^2/NDF : 45377775726.1/35

In: 0.023+/-0.000

χ^2/NDF : 37165513014.5/55

Out: 0.013+/-0.000

χ^2/NDF : 101769724928.1/60

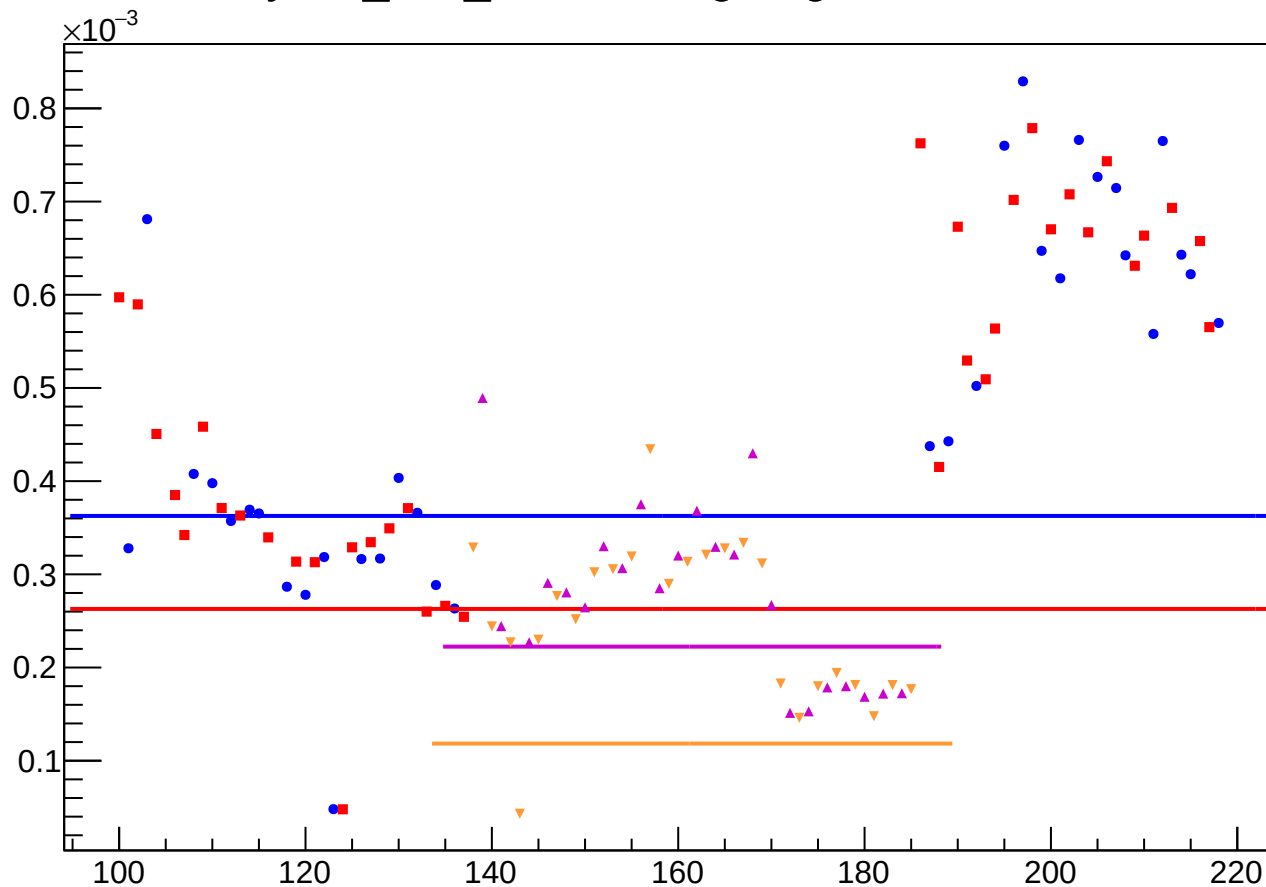
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 163398443102.6

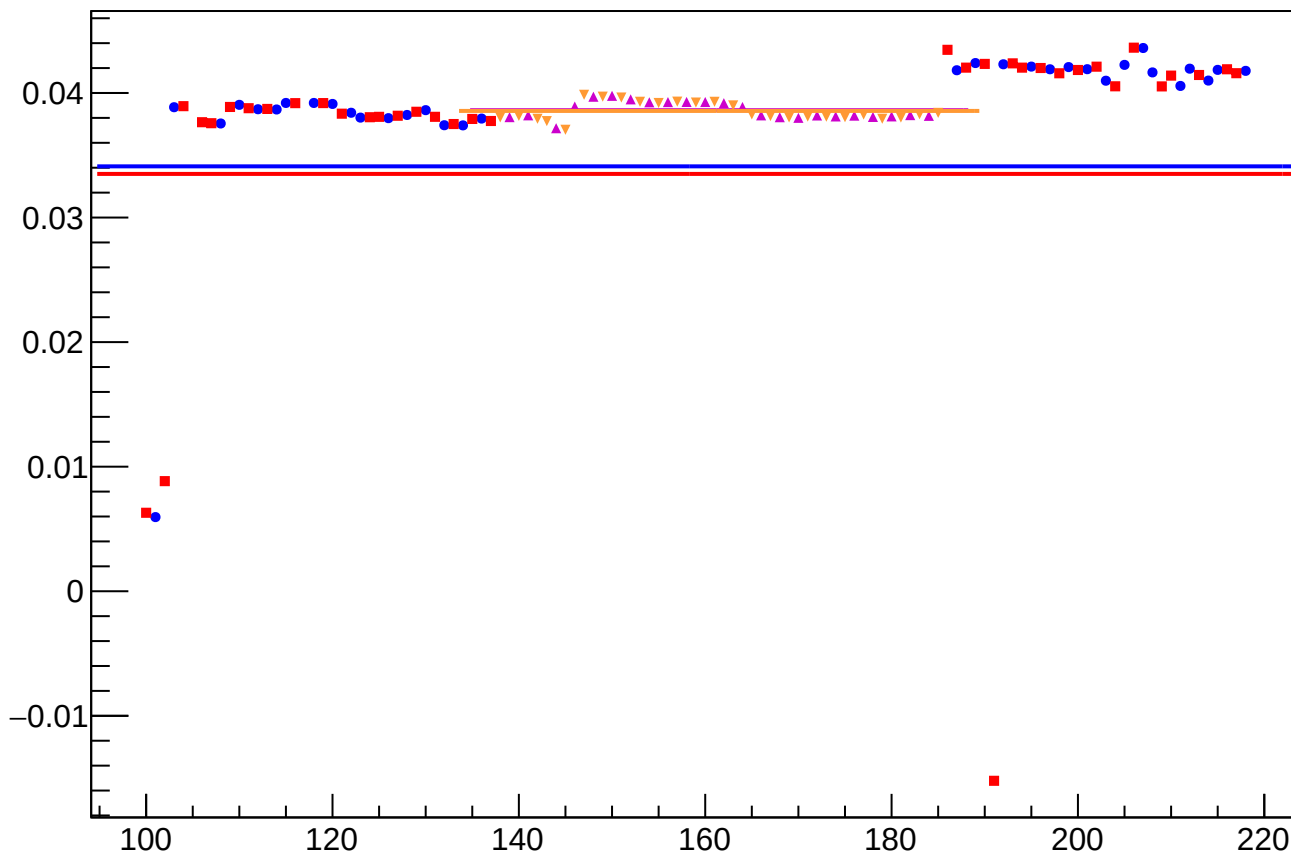
yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8049073.1/32
 Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24
 Right Out: 0.000+/-0.000 χ^2/NDF : 14423446.6/35
 Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47
 Right: 0.000+/-0.000 χ^2/NDF : 23641434.7/68
 In: 0.000+/-0.000 χ^2/NDF :14217881.1/55
 Out: 0.000+/-0.000 χ^2/NDF :33055602.4/60
 All: 0.000+/-0.000 χ^2/NDF : 54348088.6/116

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.034+/-0.000 χ^2/NDF : 122035879603.9/32

Left Out: 0.039+/-0.000 χ^2/NDF : 539468437.3/24

Right Out: 0.034+/-0.000 χ^2/NDF : 186794401655.2/35

Left In: 0.039+/-0.000 χ^2/NDF : 465745982.6/22

Left: 0.039+/-0.000 χ^2/NDF : 1007039623.8/47

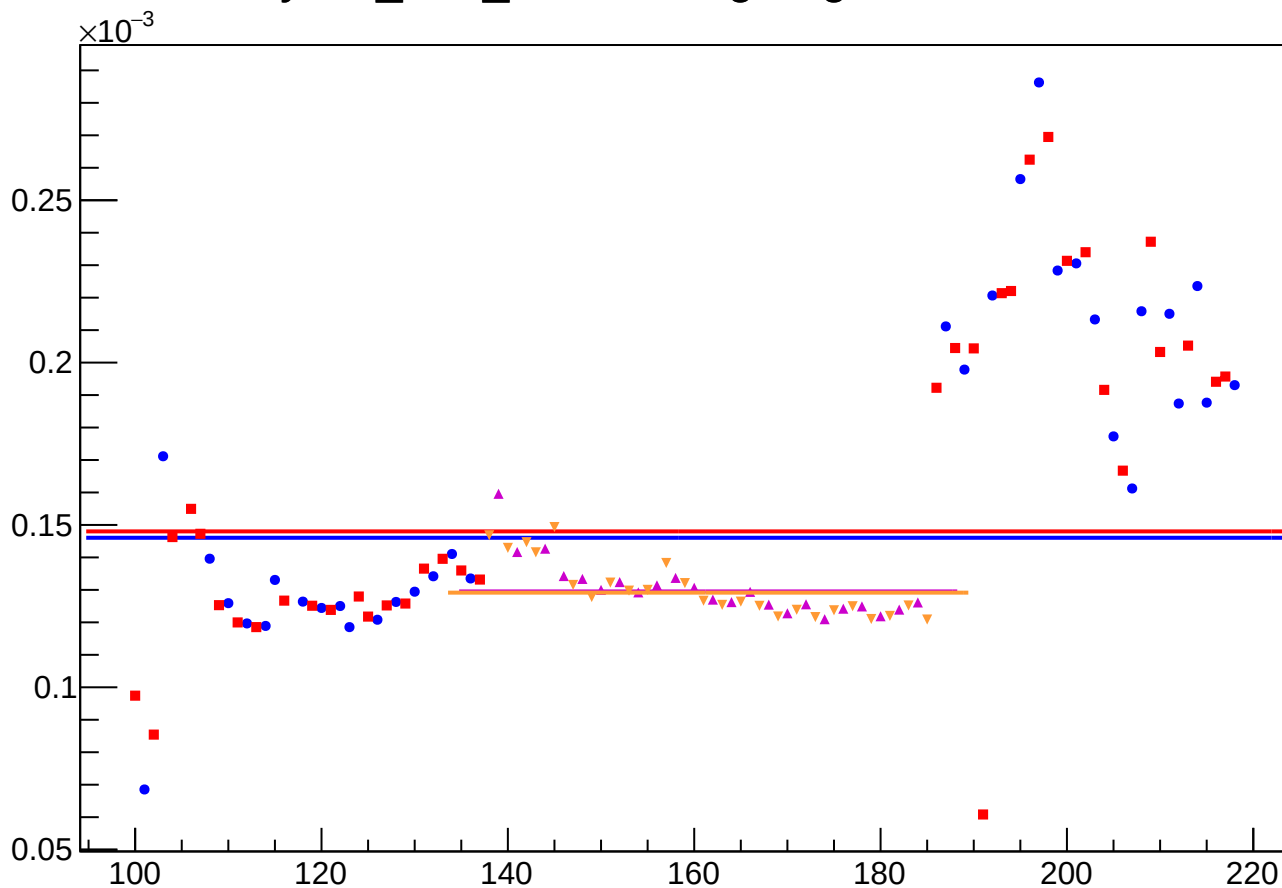
Right: 0.034+/-0.000 χ^2/NDF : 308965287308.9/68

In: 0.037+/-0.000 χ^2/NDF : 131141624317.6/55

Out: 0.037+/-0.000 χ^2/NDF : 198492753998.8/60

All: 0.037+/-0.000 χ^2/NDF : 329677047749.2

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3979952.5/32

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3684234.0/35

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

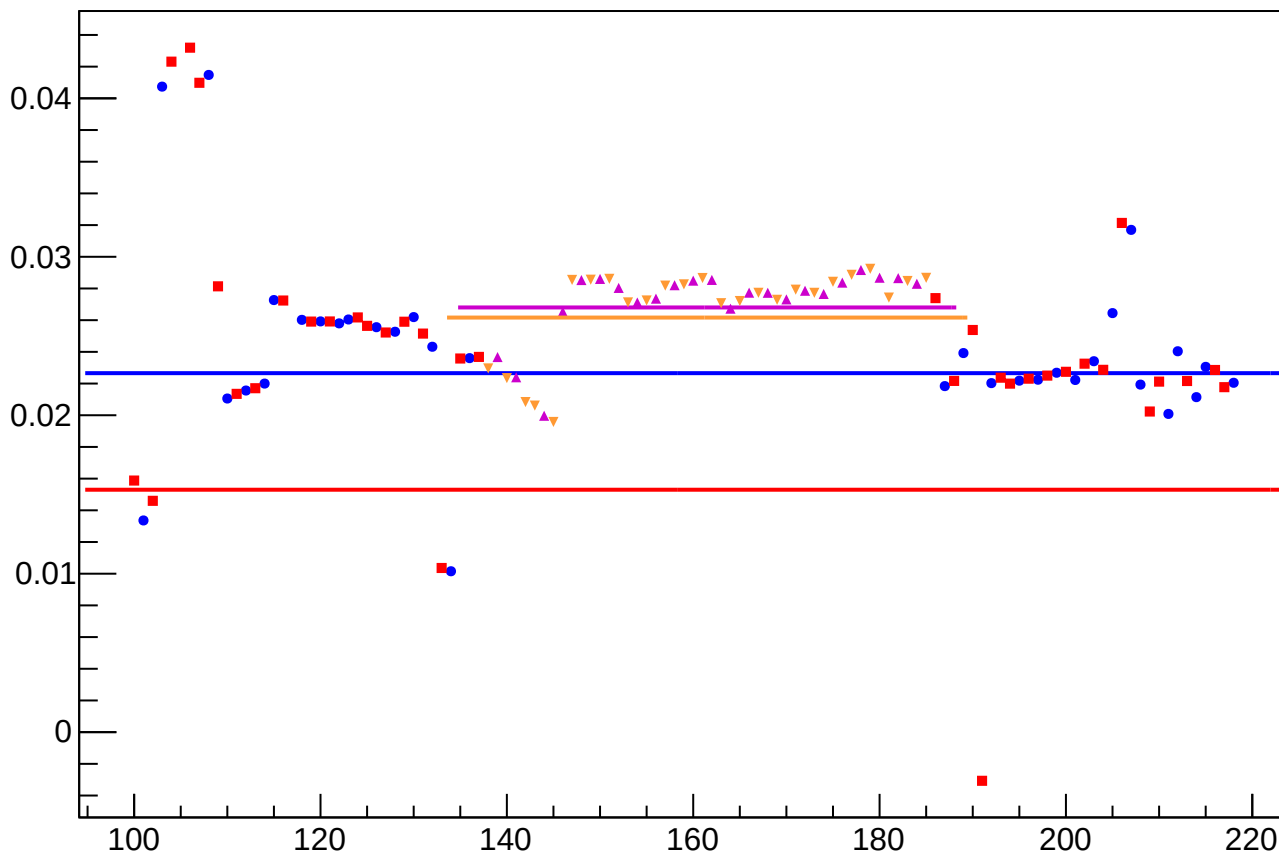
Right: 0.000+/-0.000 χ^2/NDF : 7667004.6/68

In: 0.000+/-0.000 χ^2/NDF :4326773.1/55

Out: 0.000+/-0.000 χ^2/NDF :4125081.1/60

All: 0.000+/-0.000 χ^2/NDF : 8452061.5/116

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000

χ^2/NDF : 4429193925.8/32

Left: 0.026+/-0.000

χ^2/NDF : 3427924441.4/47

Left Out: 0.026+/-0.000

χ^2/NDF : 2056710635.1/24

Right: 0.018+/-0.000

χ^2/NDF : 40330031259.7/68

Right Out: 0.015+/-0.000

χ^2/NDF : 31984217947.2/35

In: 0.025+/-0.000

χ^2/NDF : 7034032242.9/55

Out: 0.021+/-0.000

χ^2/NDF : 45084875462.0/60

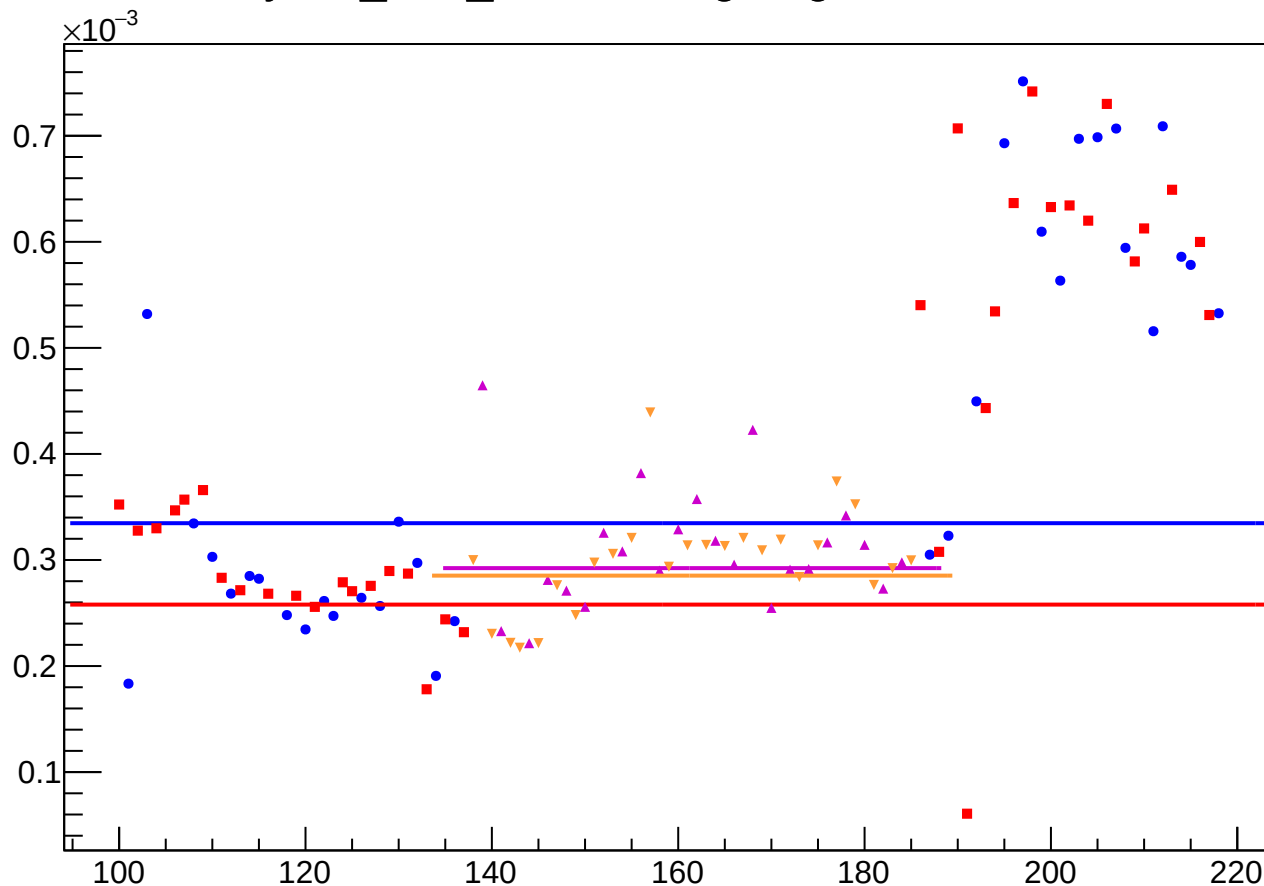
Left In: 0.027+/-0.000

χ^2/NDF : 1332033607.7/22

All: 0.023+/-0.000

χ^2/NDF : 54860556749.2/100

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 6110009.8/32

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11203878.0/35

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

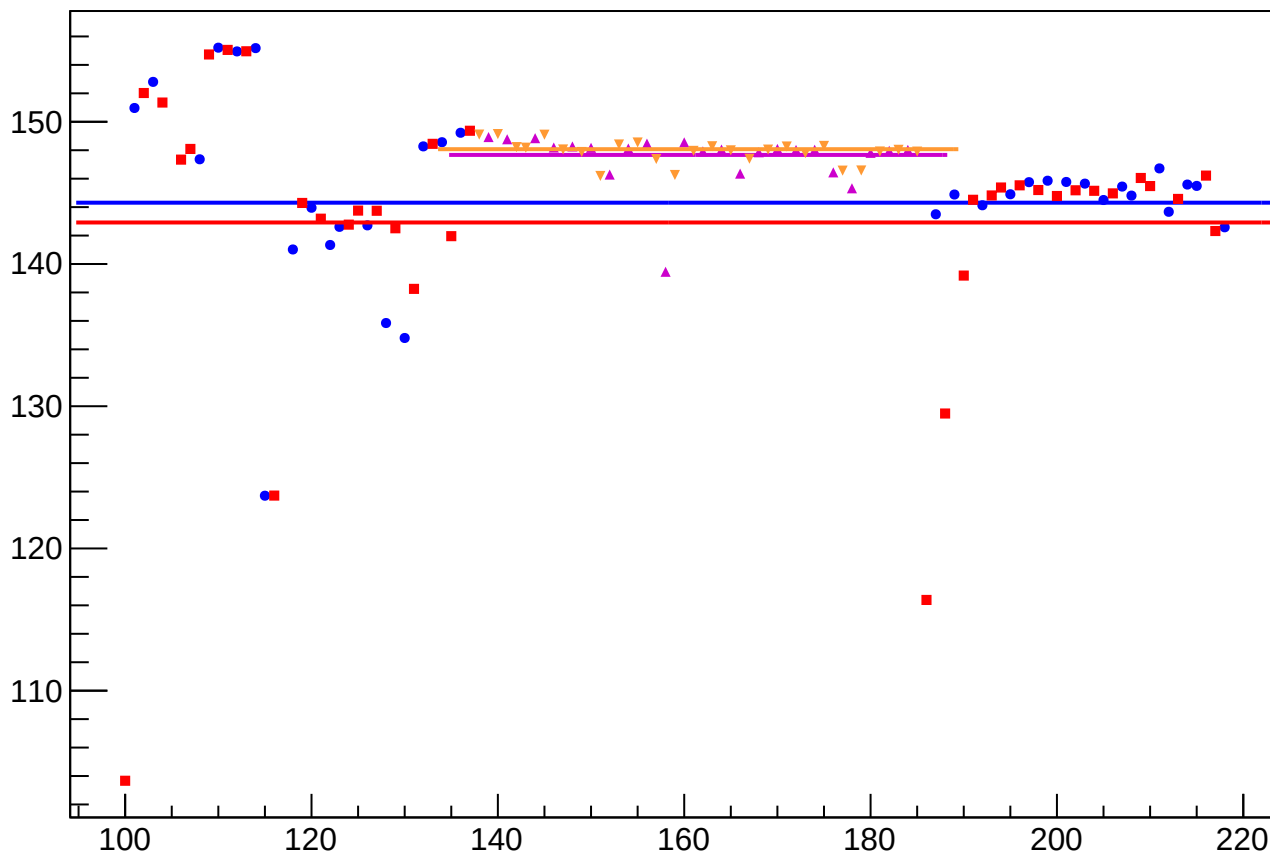
Right: 0.000+/-0.000 χ^2/NDF : 18166799.9/68

In: 0.000+/-0.000 χ^2/NDF :7274571.3/55

Out: 0.000+/-0.000 χ^2/NDF :12157044.7/60

All: 0.000+/-0.000 χ^2/NDF : 19889074.4/116

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.311+/-0.000 χ^2/NDF : 3514929039.2/32

Left Out: 148.073+/-0.000 χ^2/NDF : 65614067.4/24

Right Out: 142.920+/-0.000 χ^2/NDF : 7470617842.4/35

Left In: 147.670+/-0.000 χ^2/NDF : 345222604.4/22

Left: 147.879+/-0.000 χ^2/NDF : 418091602.5/47

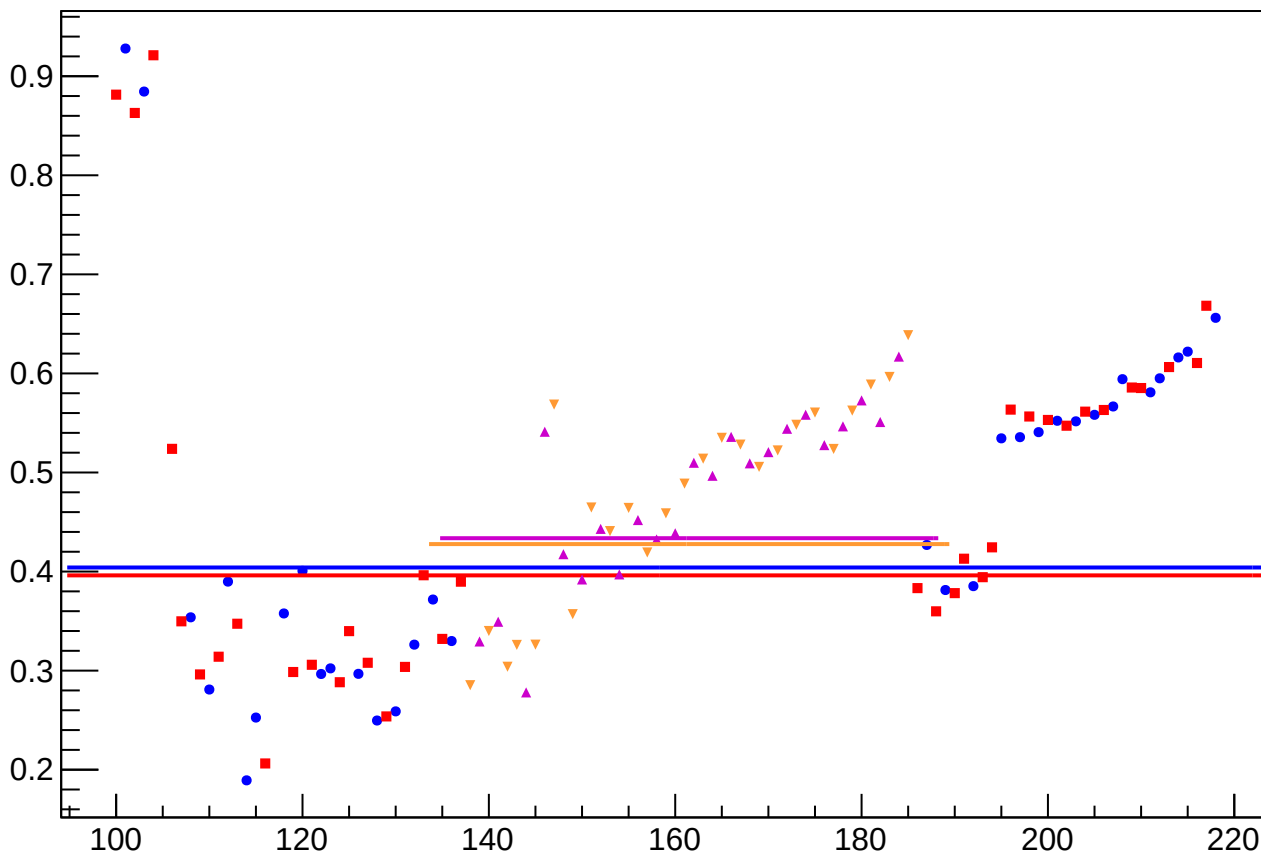
Right: 143.586+/-0.000 χ^2/NDF : 11080641283.9/68

In: 145.919+/-0.000 χ^2/NDF : 4368859396.6/55

Out: 145.368+/-0.000 χ^2/NDF : 8829593180.0/60

All: 145.633+/-0.000 χ^2/NDF : 13226896634.0/118

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.404+/-0.000 χ^2/NDF : 3855539.6/32

Left Out: 0.428+/-0.000 χ^2/NDF :1896808.7/24

Right Out: 0.396+/-0.000 χ^2/NDF : 3525730.7/35

Left In: 0.434+/-0.000 χ^2/NDF :1496343.5/22

Left: 0.431+/-0.000 χ^2/NDF : 3396308.8/47

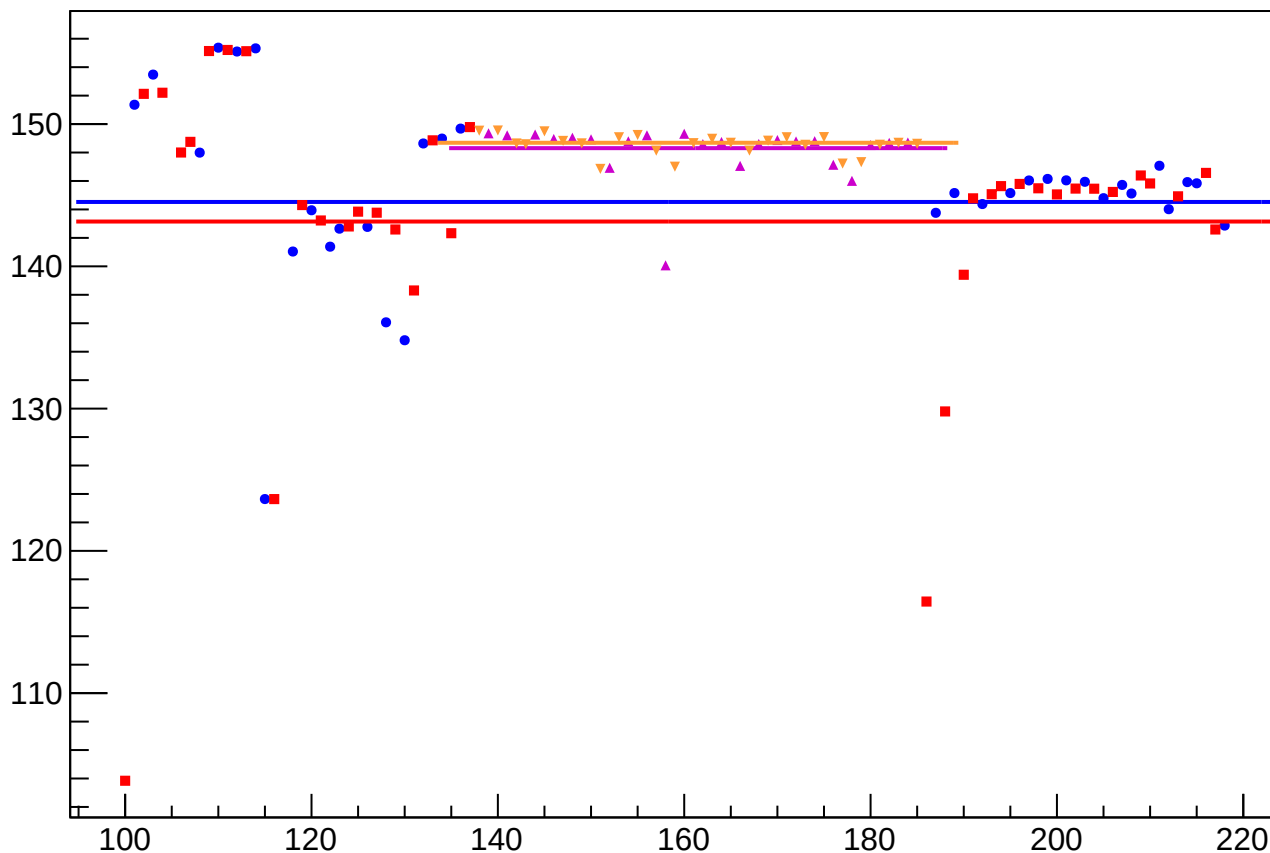
Right: 0.400+/-0.000 χ^2/NDF : 7387492.8/68

In: 0.418+/-0.000 χ^2/NDF :5430708.2/55

Out: 0.411+/-0.000 χ^2/NDF :5519730.1/60

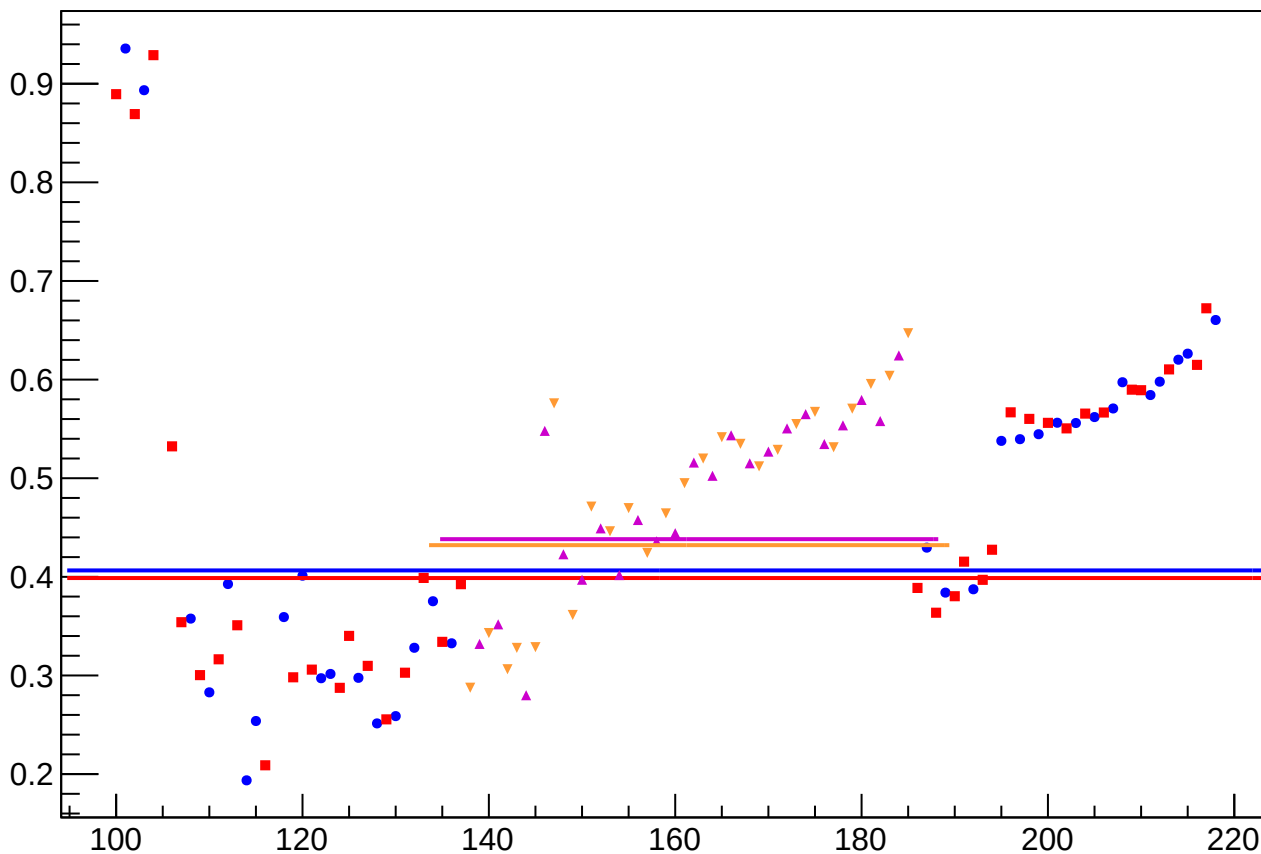
All: 0.415+/-0.000 χ^2/NDF : 10959899.7/116

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.526+/-0.000	χ^2/NDF : 3565977777.1/32	Left: 148.504+/-0.000	χ^2/NDF : 392094013.2/47
Left Out: 148.686+/-0.000	χ^2/NDF : 52218185.1/24	Right: 143.809+/-0.000	χ^2/NDF : 11081130437.9/68
Right Out: 143.149+/-0.000	χ^2/NDF : 7423340863.4/35	In: 146.326+/-0.000	χ^2/NDF : 4533463855.2/55
Left In: 148.307+/-0.000	χ^2/NDF : 333585558.2/22	Out: 145.769+/-0.000	χ^2/NDF : 8942608111.3/60
		All: 146.037+/-0.000	χ^2/NDF : 13504719785.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.407 $\pm$ 0.000 χ^2 /NDF: 3864170.3/32

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.399 $\pm$ 0.000 χ^2 /NDF: 3529368.6/35

Left In: 0.438 $\pm$ 0.000 χ^2 /NDF:1521893.6/22

Left: 0.435 $\pm$ 0.000 χ^2 /NDF: 3454164.8/47

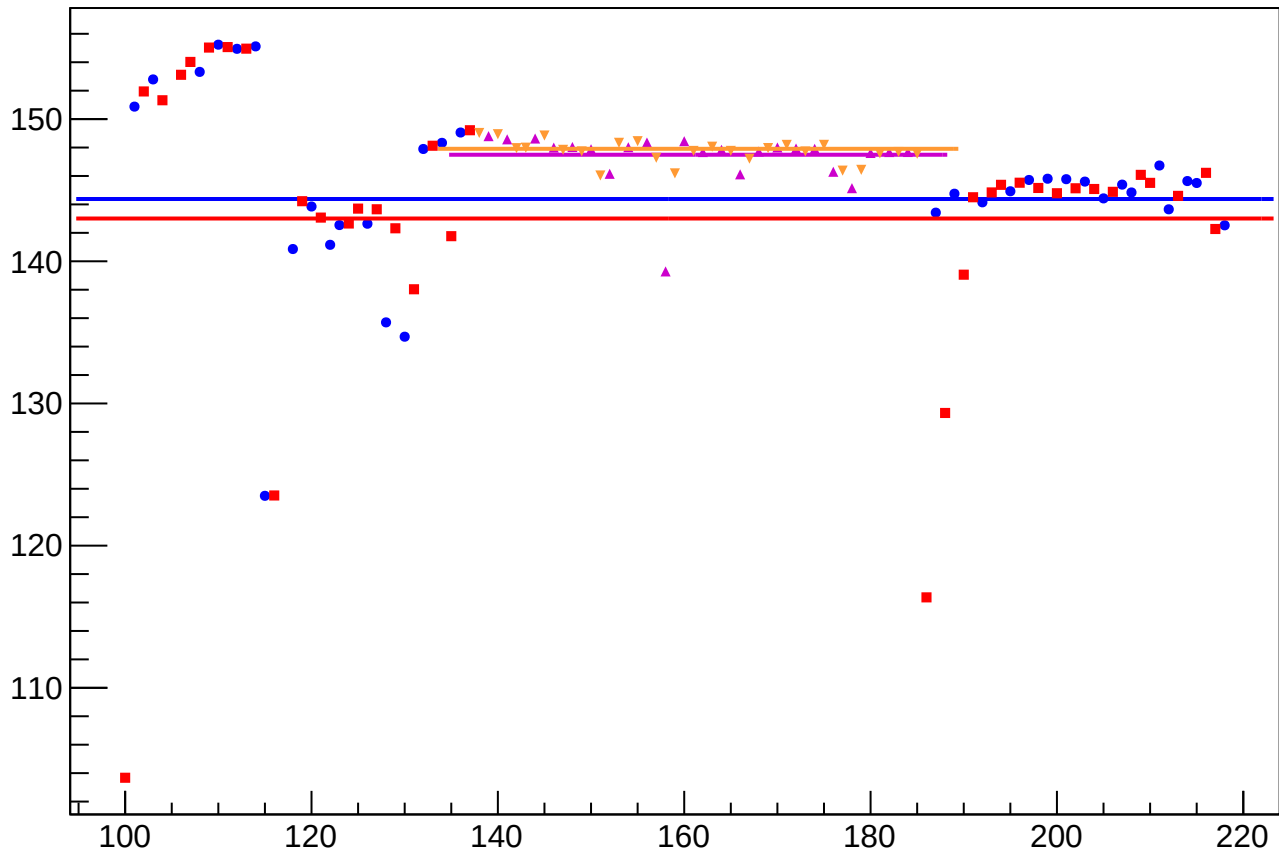
Right: 0.402 $\pm$ 0.000 χ^2 /NDF: 7399336.2/68

In: 0.422 $\pm$ 0.000 χ^2 /NDF:5475106.4/55

Out: 0.415 $\pm$ 0.000 χ^2 /NDF:5564814.0/60

All: 0.418 $\pm$ 0.000 χ^2 /NDF: 11049085.3/116

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.381+/-0.000 χ^2/NDF : 3720974553.4/32

Left Out: 147.911+/-0.000 χ^2/NDF : 64412407.9/24

Right Out: 143.008+/-0.000 χ^2/NDF : 7844049068.8/35

Left In: 147.493+/-0.000 χ^2/NDF : 343978473.2/22

Left: 147.709+/-0.000 χ^2/NDF : 416149781.4/47

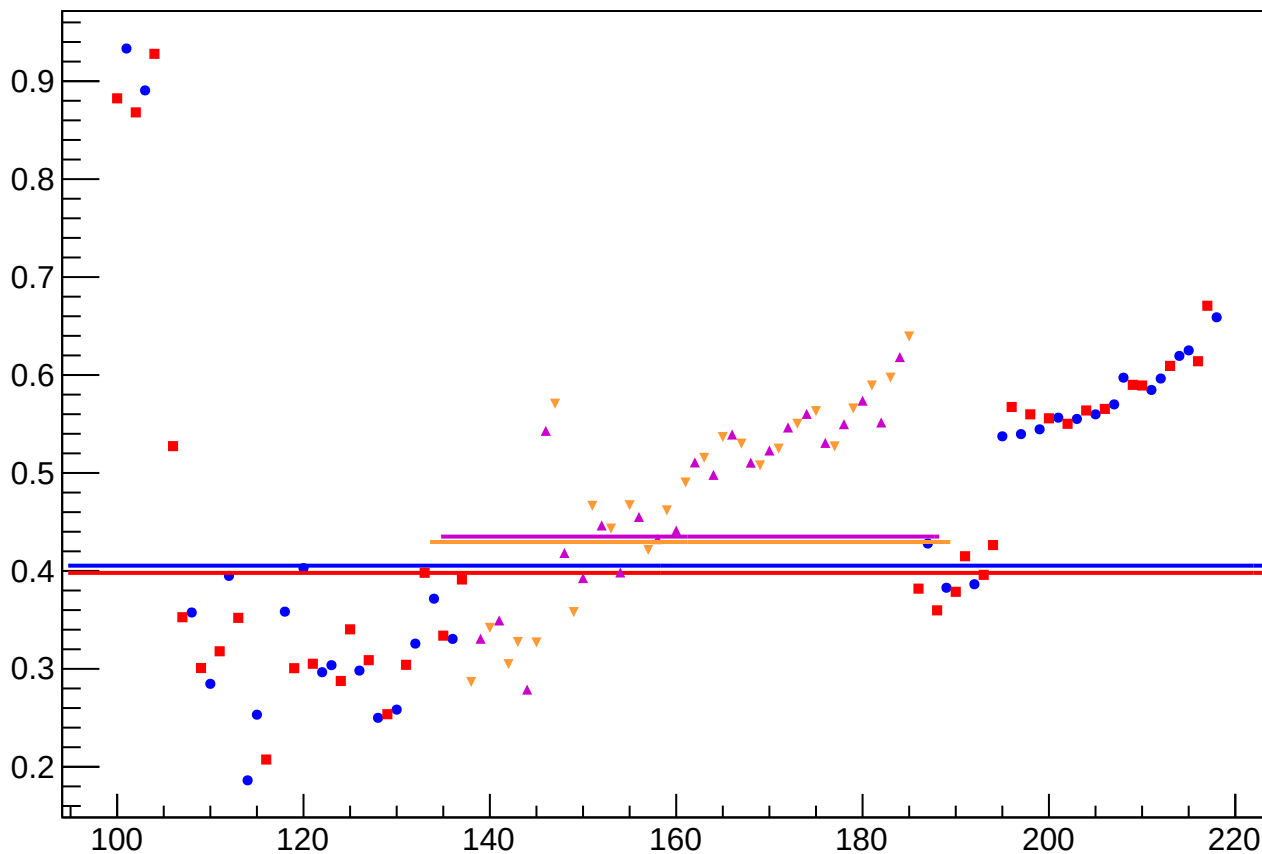
Right: 143.666+/-0.000 χ^2/NDF : 11656692988.0/68

In: 145.871+/-0.000 χ^2/NDF : 4498736110.9/55

Out: 145.339+/-0.000 χ^2/NDF : 9068852164.5/60

All: 145.595+/-0.000 χ^2/NDF : 13593924691.0/117

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.405 $\pm$ 0.000 χ^2 /NDF: 3895338.4/32

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.398 $\pm$ 0.000 χ^2 /NDF: 3532631.6/35

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1502712.5/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3401133.5/47

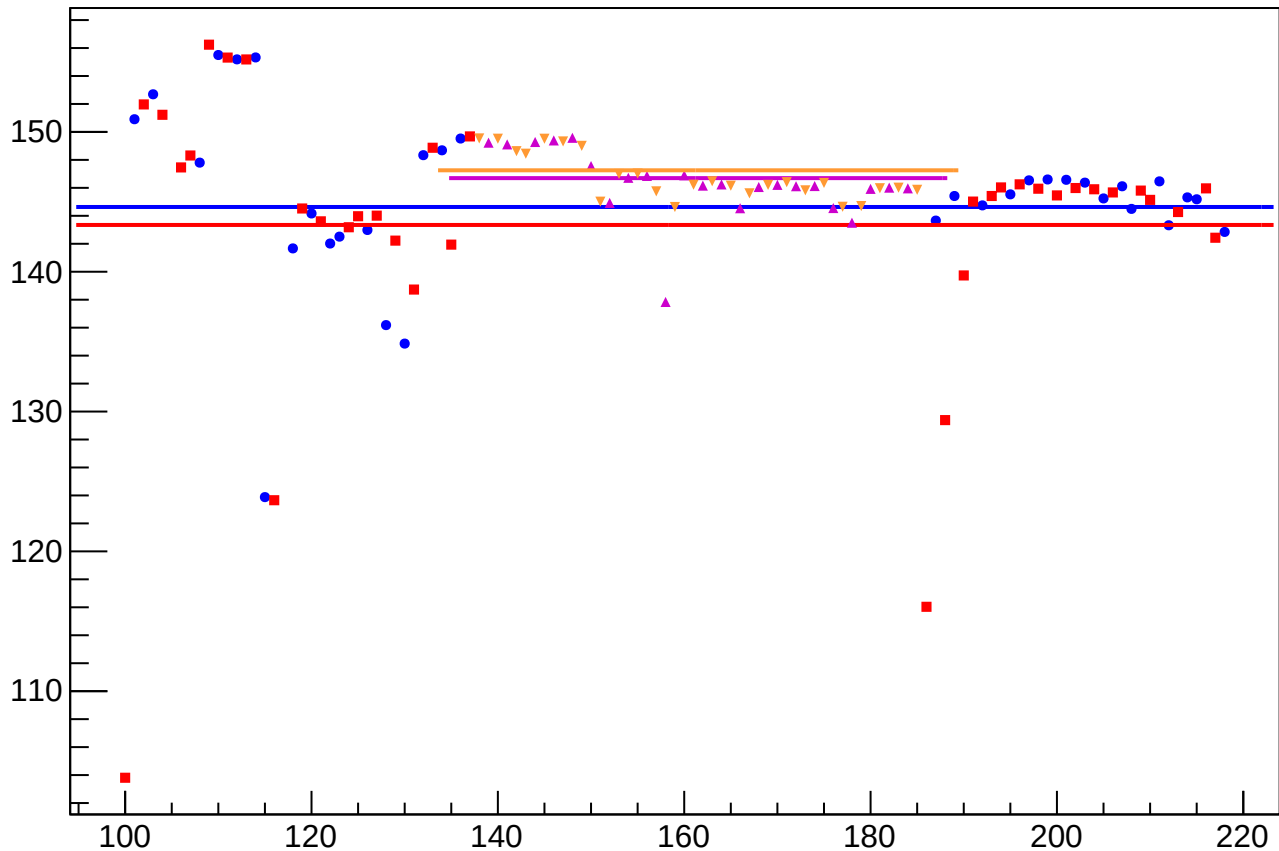
Right: 0.402 $\pm$ 0.000 χ^2 /NDF: 7433278.8/68

In: 0.420 $\pm$ 0.000 χ^2 /NDF:5476947.2/55

Out: 0.413 $\pm$ 0.000 χ^2 /NDF:5524346.1/60

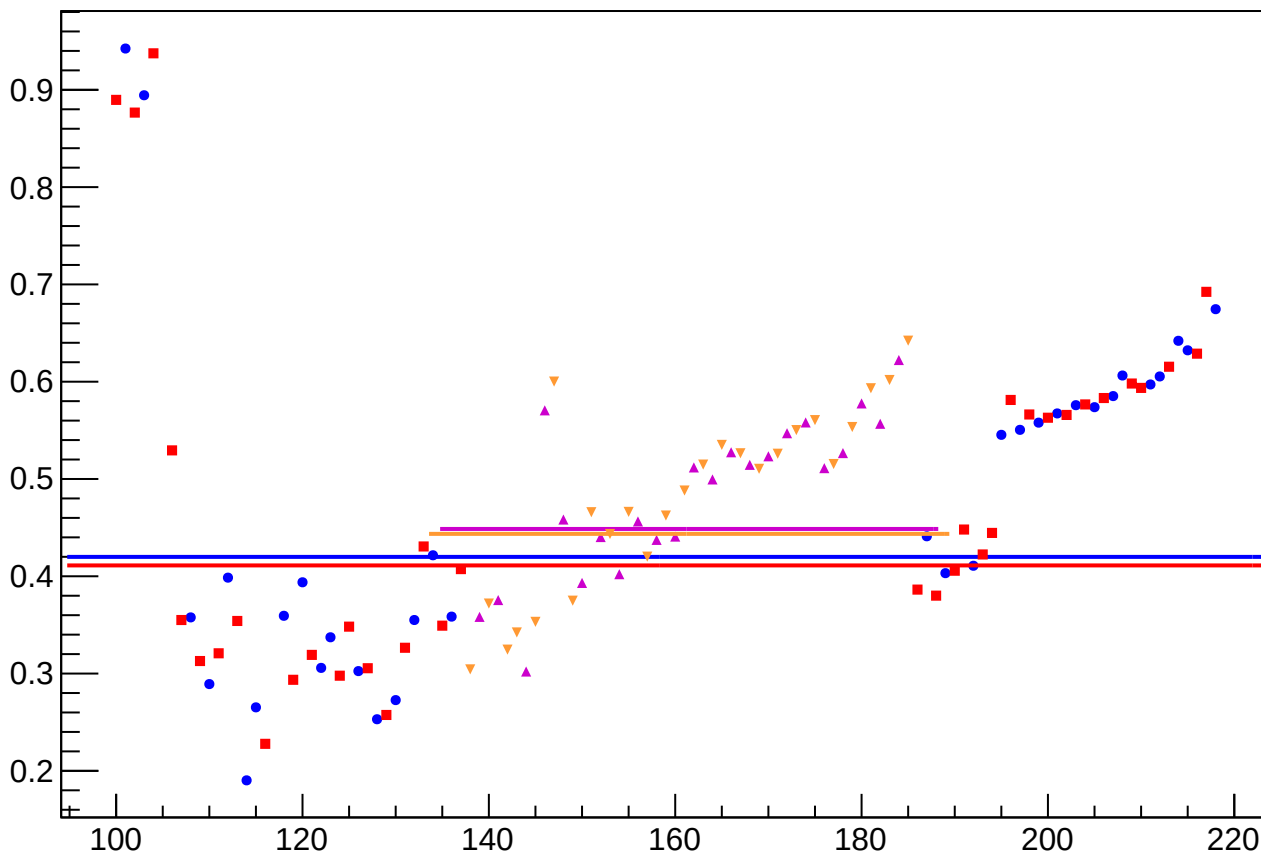
All: 0.416 $\pm$ 0.000 χ^2 /NDF: 11009417.8/116

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.632 $\pm$ 0.000 χ^2/NDF : 3239467140.8/32
 Left Out: 147.255 $\pm$ 0.000 χ^2/NDF : 262138049.8/24
 Right Out: 143.346 $\pm$ 0.000 χ^2/NDF : 7156401888.7/35
 Left In: 146.695 $\pm$ 0.000 χ^2/NDF : 557896803.1/22
 All: 145.414 $\pm$ 0.000 χ^2/NDF : 12105153520.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.420+/-0.000 χ^2/NDF : 3763734.5/32

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.411+/-0.000 χ^2/NDF : 3421792.7/35

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

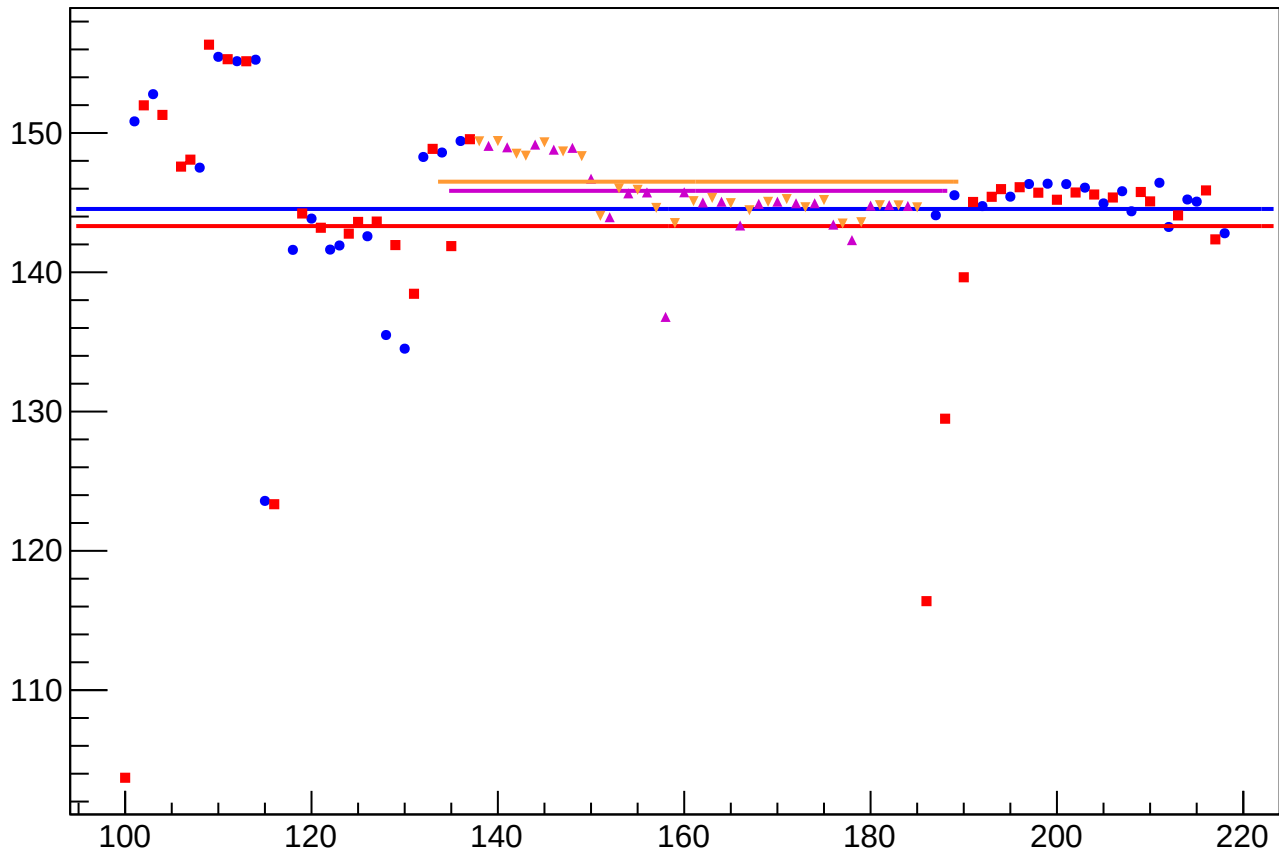
Right: 0.415+/-0.000 χ^2/NDF : 7192532.0/68

In: 0.434+/-0.000 χ^2/NDF :4965861.9/55

Out: 0.427+/-0.000 χ^2/NDF :5000865.1/60

All: 0.430+/-0.000 χ^2/NDF : 9975687.6/116

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.546 $\pm$ 0.000 χ^2 /NDF: 3349027773.0/32

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 143.317 $\pm$ 0.000 χ^2 /NDF: 7108165070.2/35

Left In: 145.847 $\pm$ 0.000 χ^2 /NDF: 694764545.6/22

Left: 146.187 $\pm$ 0.000 χ^2 /NDF: 1114638549.0/47

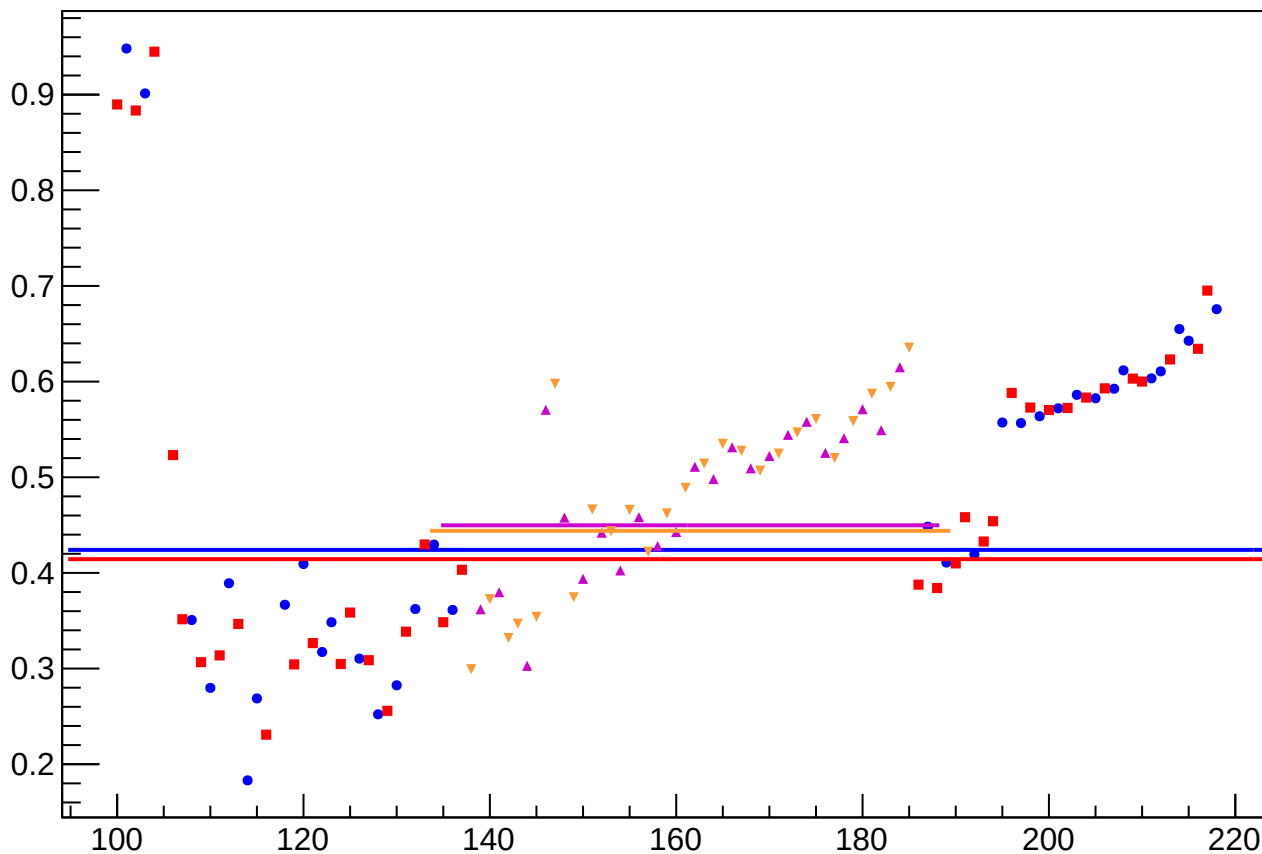
Right: 143.903 $\pm$ 0.000 χ^2 /NDF: 10524463405.5/68

In: 145.181 $\pm$ 0.000 χ^2 /NDF: 4114129346.3/55

Out: 144.854 $\pm$ 0.000 χ^2 /NDF: 7967212073.2/60

All: 145.011 $\pm$ 0.000 χ^2 /NDF: 12090566883.0/117

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.424 $\pm$ 0.000 χ^2/NDF : 3814525.8/32

Left Out: 0.444 $\pm$ 0.000 χ^2/NDF :1463293.5/24

Right Out: 0.414 $\pm$ 0.000 χ^2/NDF : 3454792.8/35

Left In: 0.450 $\pm$ 0.000 χ^2/NDF :1105405.0/22

Left: 0.447 $\pm$ 0.000 χ^2/NDF : 2571486.5/47

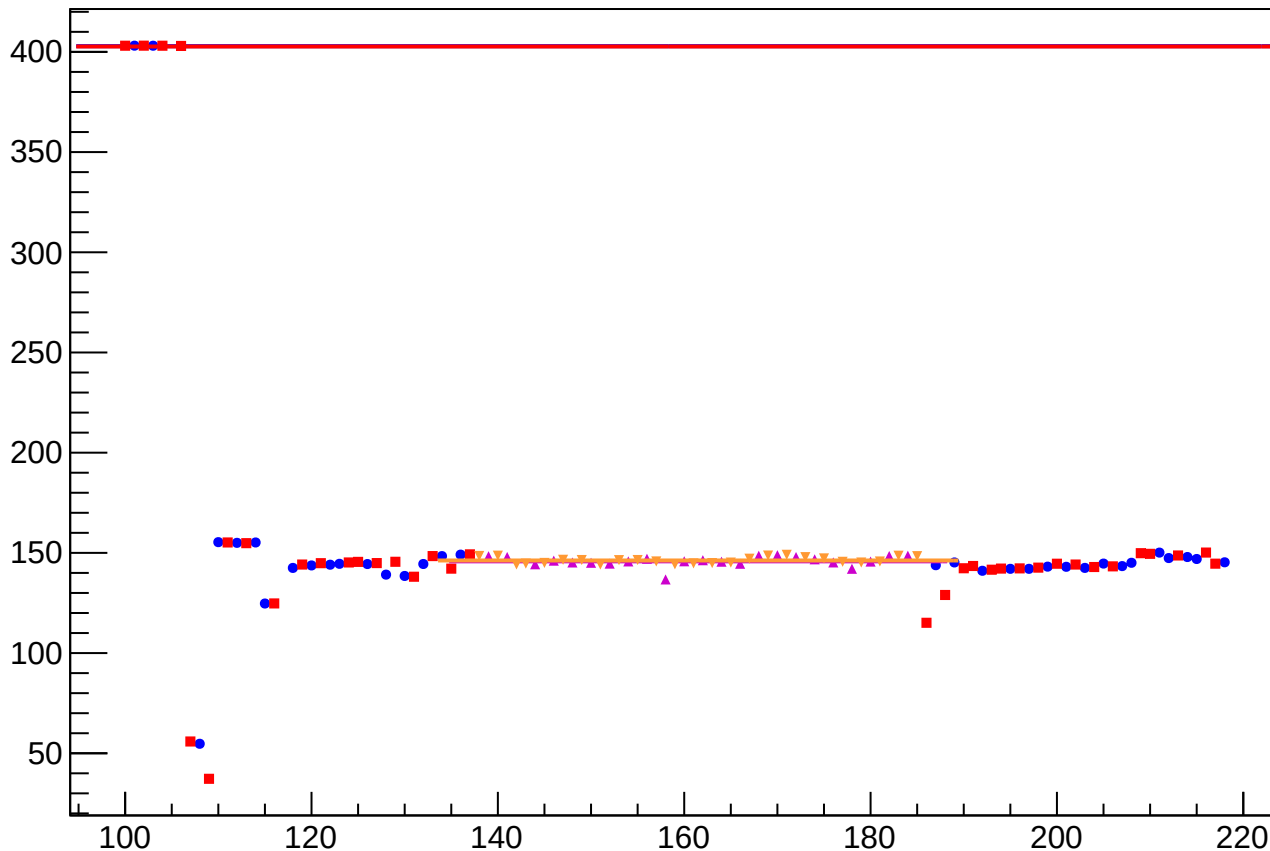
Right: 0.419 $\pm$ 0.000 χ^2/NDF : 7277717.2/68

In: 0.437 $\pm$ 0.000 χ^2/NDF :4974764.7/55

Out: 0.429 $\pm$ 0.000 χ^2/NDF :4997093.9/60

All: 0.432 $\pm$ 0.000 χ^2/NDF : 9982809.0/116

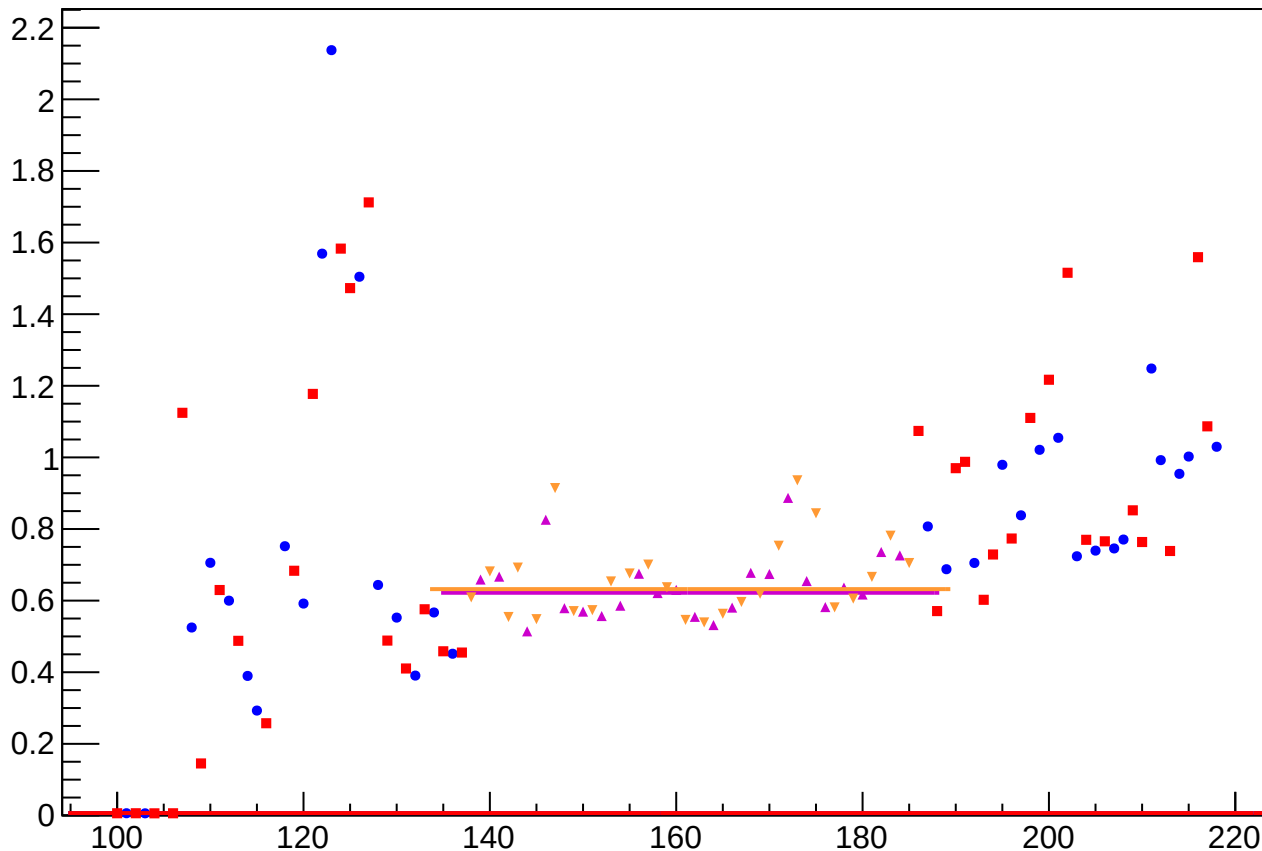
yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.854 $\pm$ 0.000 χ^2 /NDF: 1930473326000.7/32
 Left Out: 146.205 $\pm$ 0.000 χ^2 /NDF: 86658381.3/24
 Right Out: 402.688 $\pm$ 0.000 χ^2 /NDF: 4122498786779.9/35
 Left In: 145.773 $\pm$ 0.000 χ^2 /NDF: 207332354.9/22

Left: 145.990 $\pm$ 0.000 χ^2 /NDF: 297342055.1/47
 Right: 402.766 $\pm$ 0.000 χ^2 /NDF: 6053427156779.1/32
 In: 402.561 $\pm$ 0.000 χ^2 /NDF: 4278612845594.0/50
 Out: 402.426 $\pm$ 0.000 χ^2 /NDF: 6489837378402.2/60
 All: 402.489 $\pm$ 0.000 χ^2 /NDF: 107687494142.0/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 27360914.6/32

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 28964289.7/35

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:404479.0/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1022337.9/47

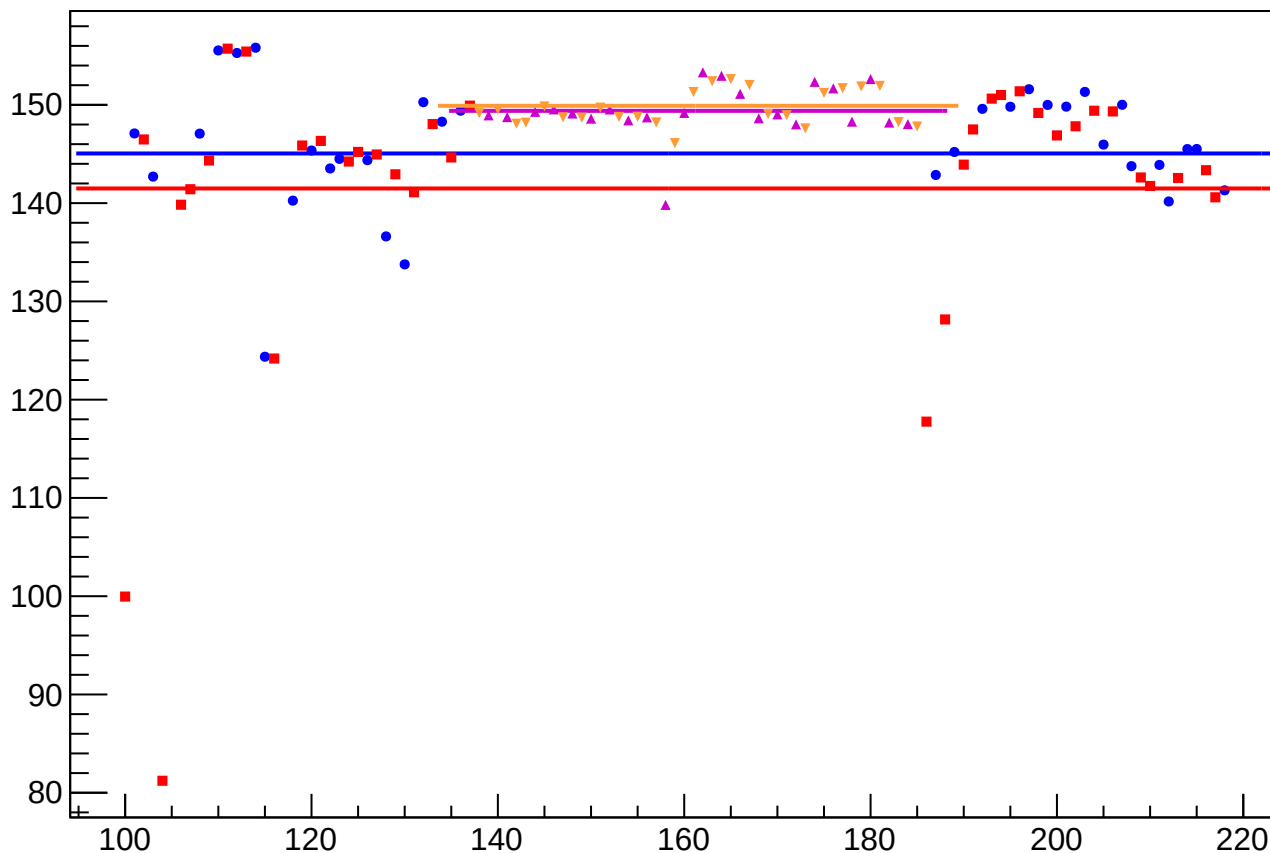
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 56325211.9/68

In: 0.007 $\pm$ 0.000 χ^2 /NDF:54662035.9/55

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:57732737.2/60

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 112394977.2/116

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.053 $\pm$ 0.000 χ^2 /NDF: 1379417191.1/32

Left Out: 149.906 $\pm$ 0.000 χ^2 /NDF: 163261802.4/24

Right Out: 141.491 $\pm$ 0.000 χ^2 /NDF: 3254164238.2/35

Left In: 149.391 $\pm$ 0.000 χ^2 /NDF: 437129920.4/22

Left: 149.657 $\pm$ 0.000 χ^2 /NDF: 606930259.3/47

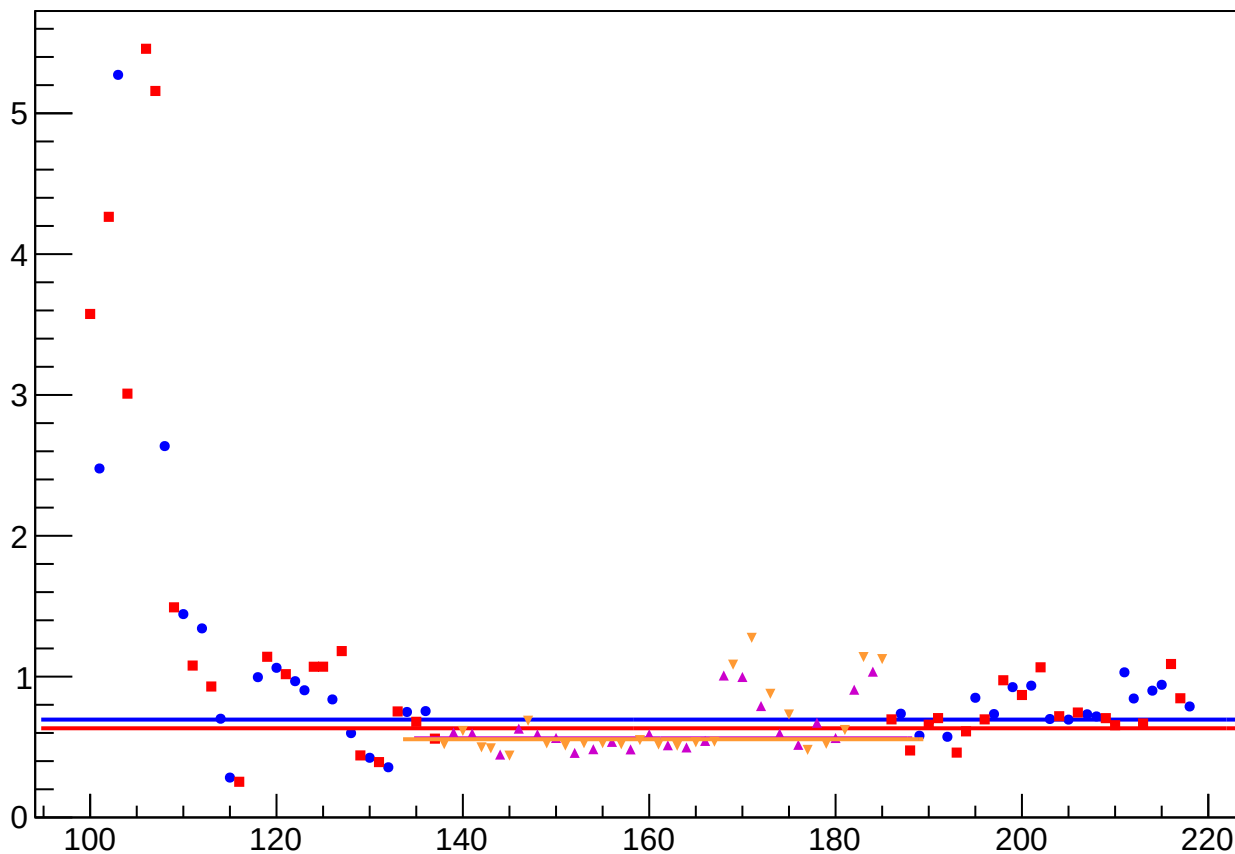
Right: 143.097 $\pm$ 0.000 χ^2 /NDF: 4819246720.0/68

In: 147.834 $\pm$ 0.000 χ^2 /NDF: 2137846376.6/55

Out: 146.629 $\pm$ 0.000 χ^2 /NDF: 4821413569.1/60

All: 147.197 $\pm$ 0.000 χ^2 /NDF: 7016262589.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.695 $\pm$ 0.000 χ^2 /NDF: 4366724.6/32

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.633 $\pm$ 0.000 χ^2 /NDF: 5911555.5/35

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1311075.2/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3086646.6/47

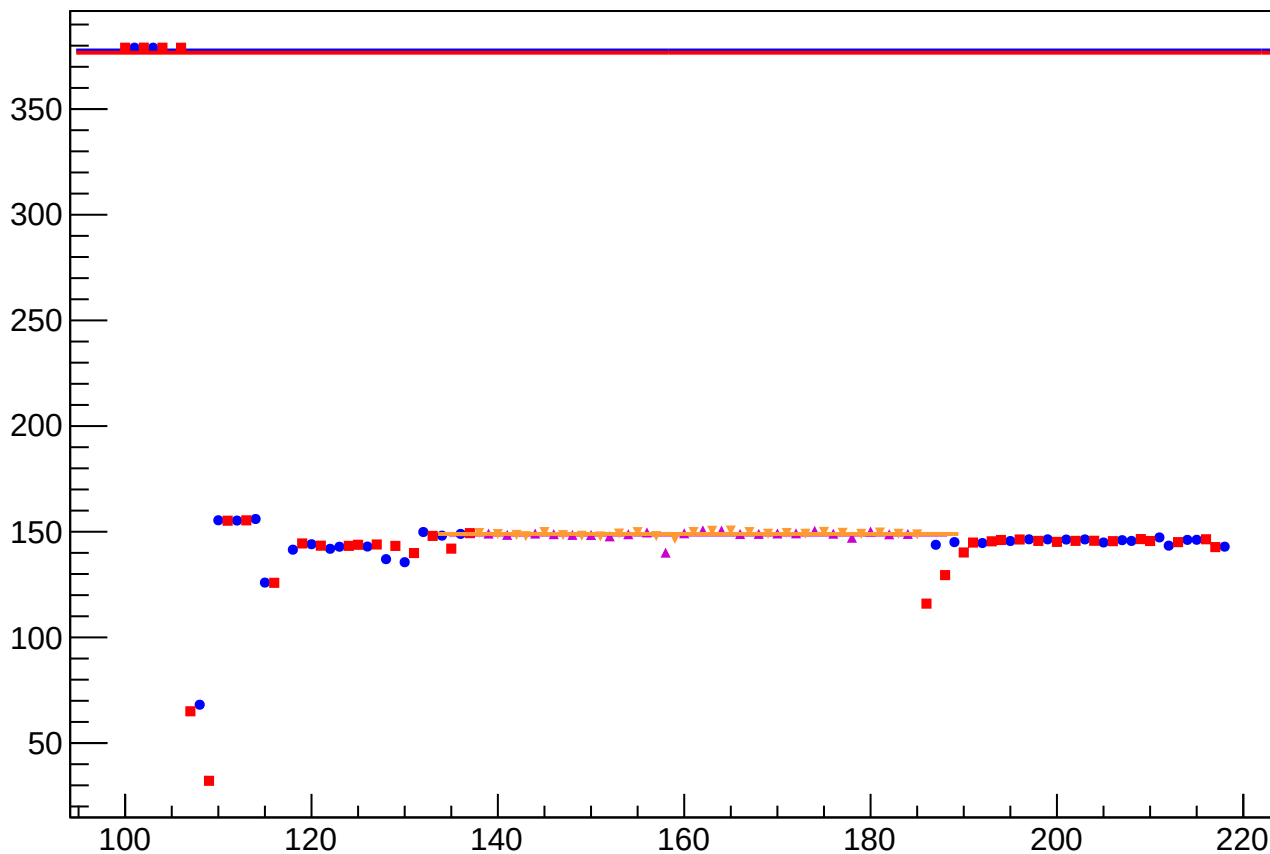
Right: 0.661 $\pm$ 0.000 χ^2 /NDF: 10390050.4/68

In: 0.610 $\pm$ 0.000 χ^2 /NDF:6280750.6/55

Out: 0.586 $\pm$ 0.000 χ^2 /NDF:7924566.7/60

All: 0.597 $\pm$ 0.000 χ^2 /NDF: 14250859.6/116

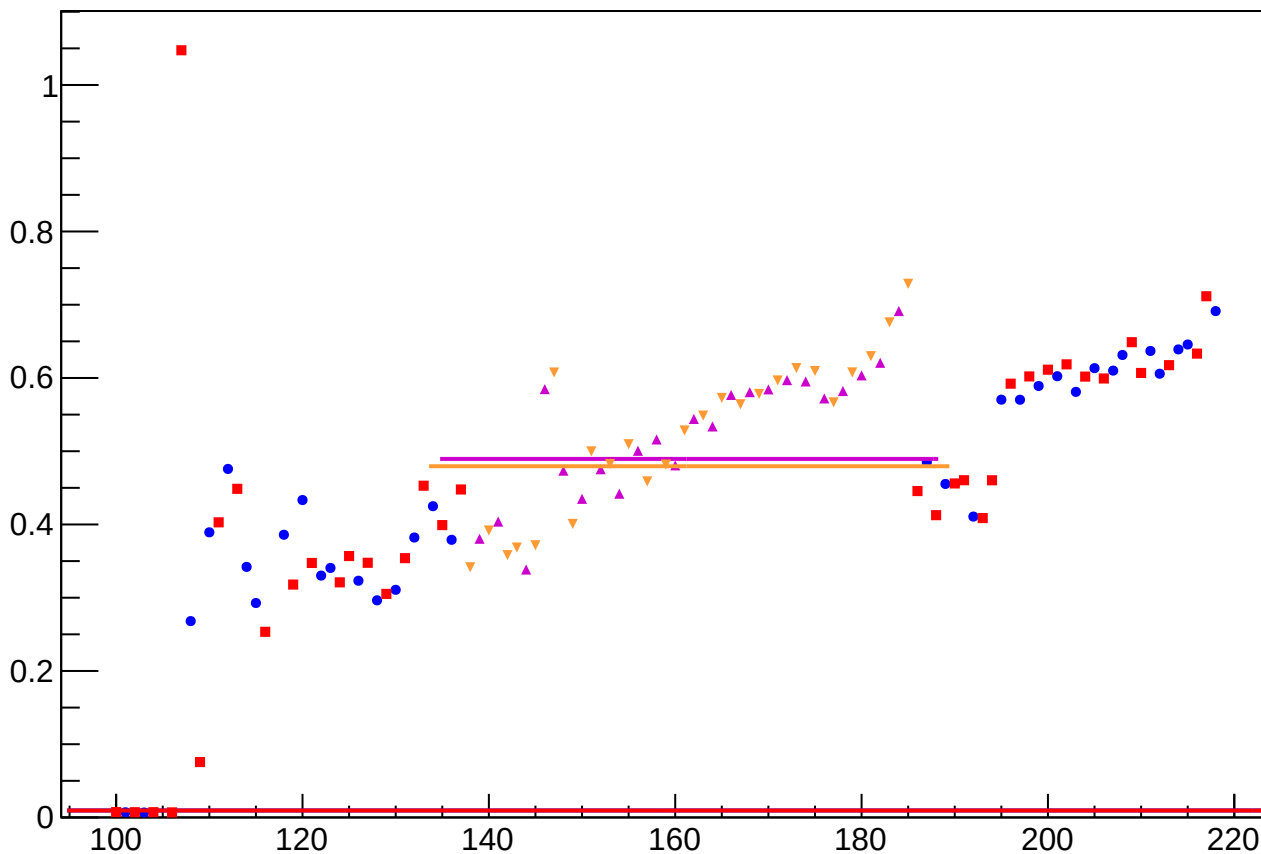
yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.702 $\pm$ 0.000 χ^2 /NDF: 4307554307218.7/32
 Left Out: 148.946 $\pm$ 0.000 χ^2 /NDF: 63974844.7/24
 Right Out: 376.691 $\pm$ 0.000 χ^2 /NDF: 10421732523945.6/35
 Left In: 148.683 $\pm$ 0.000 χ^2 /NDF: 253848207.3/22

Left: 148.820 $\pm$ 0.000 χ^2 /NDF: 320306424.2/47
 Right: 377.163 $\pm$ 0.000 χ^2 /NDF: 14736564246104.1
 In: 376.526 $\pm$ 0.000 χ^2 /NDF: 7903494469370.6/55
 Out: 375.576 $\pm$ 0.000 χ^2 /NDF: 14285591359080.3
 All: 376.020 $\pm$ 0.000 χ^2 /NDF: 221955374008.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 31342433.2/32

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 31502197.8/35

Left In: 0.490 $\pm$ 0.000 χ^2 /NDF:1090532.3/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2616511.3/47

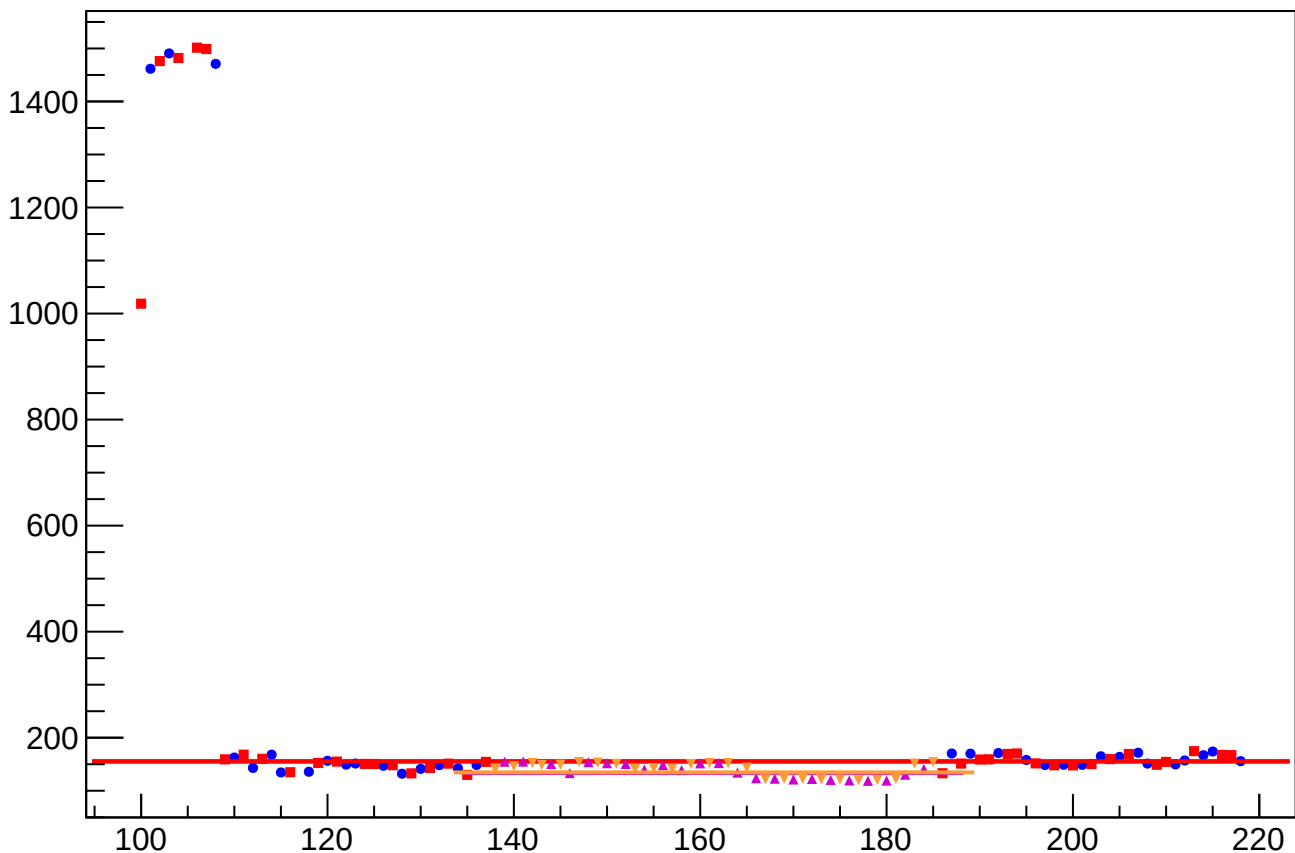
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 62844668.2/68

In: 0.012 $\pm$ 0.000 χ^2 /NDF:64021507.0/55

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:65934115.5/60

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 129956288.4/116

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.221+/-0.000 χ^2/NDF : 26161591645.5/32

Left Out: 134.585+/-0.000 χ^2/NDF : 4387324151.1/24

Right Out: 155.491+/-0.000 χ^2/NDF : 35305015972.0/35

Left In: 133.309+/-0.000 χ^2/NDF : 4353039408.6/22

Left: 133.958+/-0.000 χ^2/NDF : 8759337937.7/47

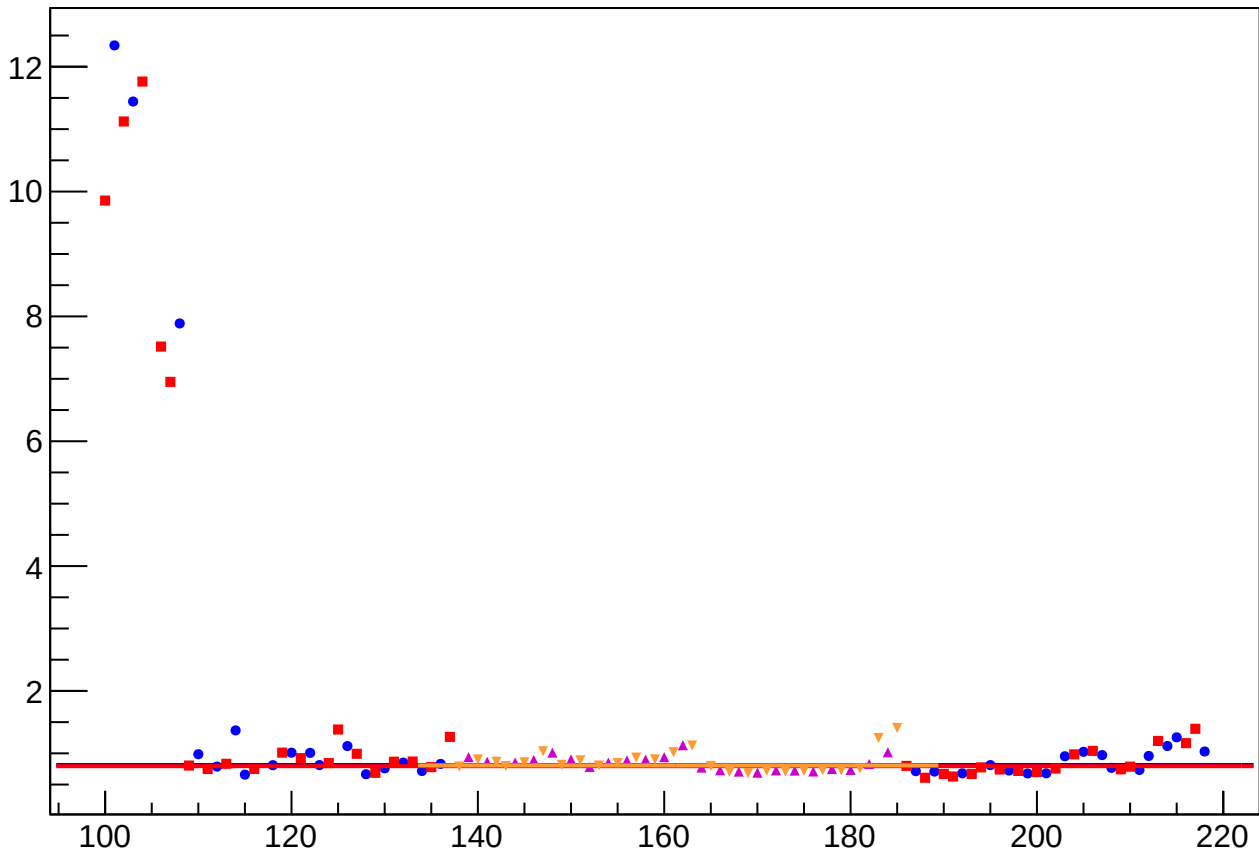
Right: 155.361+/-0.000 χ^2/NDF : 61467368842.0/68

In: 143.554+/-0.000 χ^2/NDF : 35665915558.2/55

Out: 144.555+/-0.000 χ^2/NDF : 44640611548.9/60

All: 144.067+/-0.000 χ^2/NDF : 80328668634.0/114

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.814 ± 0.000 $\chi^2/\text{NDF}: 3363798.9/32$

Left Out: 0.807 ± 0.000 $\chi^2/\text{NDF}: 704181.3/24$

Right Out: 0.794 ± 0.000 $\chi^2/\text{NDF}: 3800553.5/35$

Left In: 0.805 ± 0.000 $\chi^2/\text{NDF}: 479689.4/22$

Left: 0.806 ± 0.000 $\chi^2/\text{NDF}: 1183976.9/47$

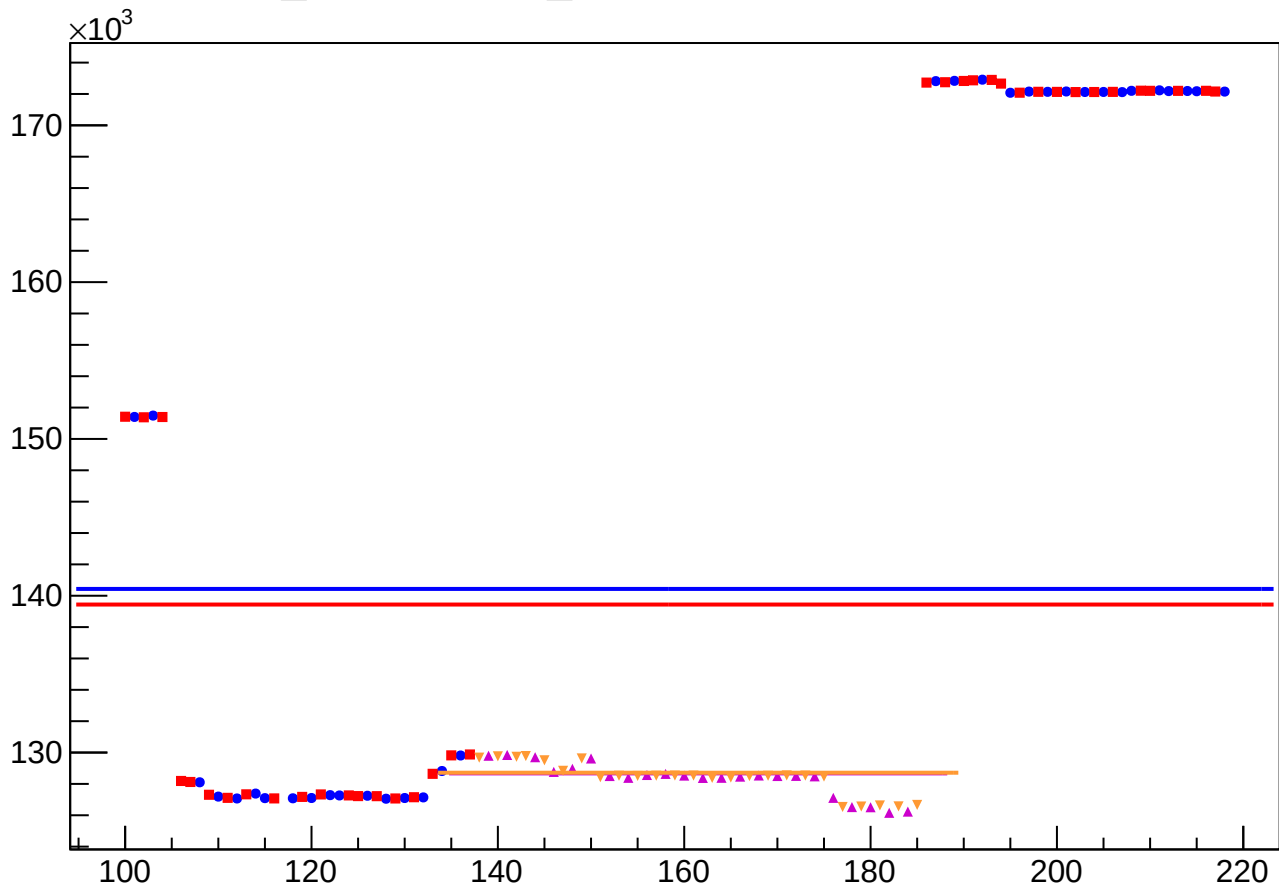
Right: 0.804 ± 0.000 $\chi^2/\text{NDF}: 7172244.2/68$

In: 0.809 ± 0.000 $\chi^2/\text{NDF}: 3845279.2/55$

Out: 0.801 ± 0.000 $\chi^2/\text{NDF}: 4508241.0/60$

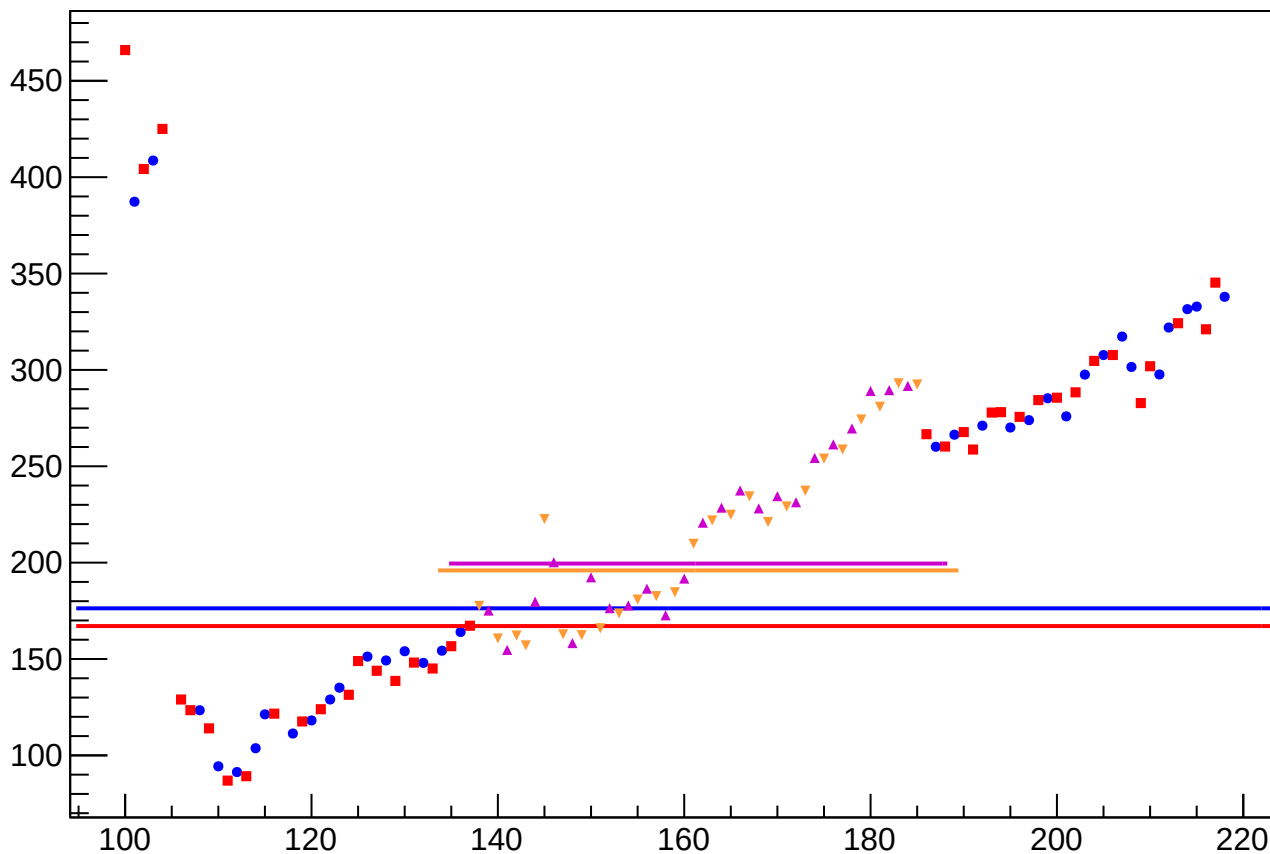
All: 0.805 ± 0.000 $\chi^2/\text{NDF}: 8356401.0/116$

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 140434.746 $\pm$ 0.046	χ^2 /NDF: 188248920148.3/32	Left: 128692.941 $\pm$ 0.034	χ^2 /NDF: 683588051.4/47
Left Out: 128713.791 $\pm$ 0.047	χ^2 /NDF: 348293942.5/24	Right: 139903.654 $\pm$ 0.032	χ^2 /NDF: 393768193411
Right Out: 139438.497 $\pm$ 0.043	χ^2 /NDF: 205272901523.1/35	In: 134860.220 $\pm$ 0.034	χ^2 /NDF: 219121725097.9
Left In: 128670.094 $\pm$ 0.049	χ^2 /NDF: 334875494.0/22	Out: 134466.600 $\pm$ 0.032	χ^2 /NDF: 233969738606
		All: 134652.275 $\pm$ 0.023	χ^2 /NDF: 453163900

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 176.297 $\pm$ 0.033 χ^2 /NDF: 6760431.3/32

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF: 1316091.7/24

Right Out: 167.095 $\pm$ 0.031 χ^2 /NDF: 7199363.6/35

Left In: 199.531 $\pm$ 0.035 χ^2 /NDF: 1175342.5/22

Left: 197.666 $\pm$ 0.024 χ^2 /NDF: 2497014.2/47

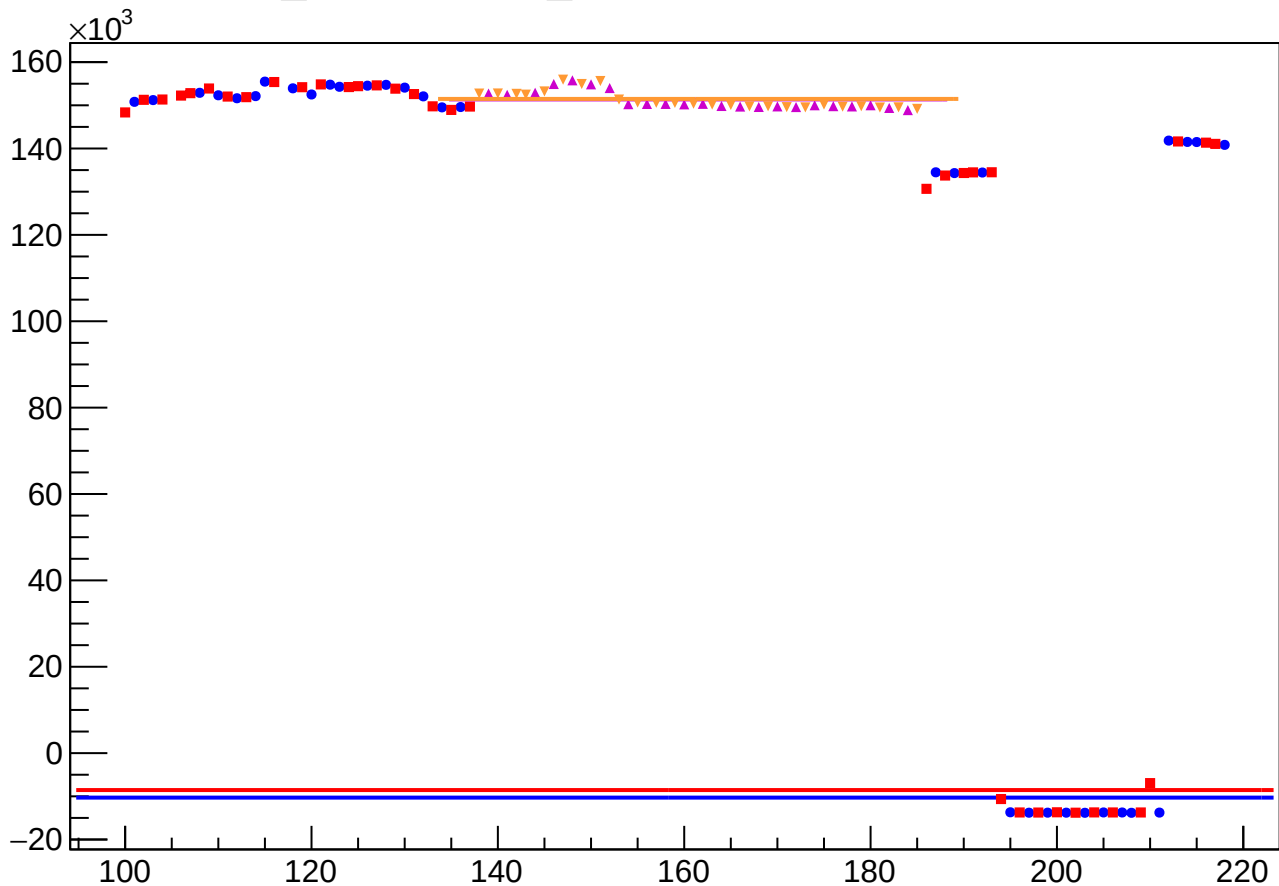
Right: 171.391 $\pm$ 0.022 χ^2 /NDF: 14001841.2/68

In: 187.306 $\pm$ 0.024 χ^2 /NDF: 8173978.0/55

Out: 180.478 $\pm$ 0.022 χ^2 /NDF: 8926285.4/60

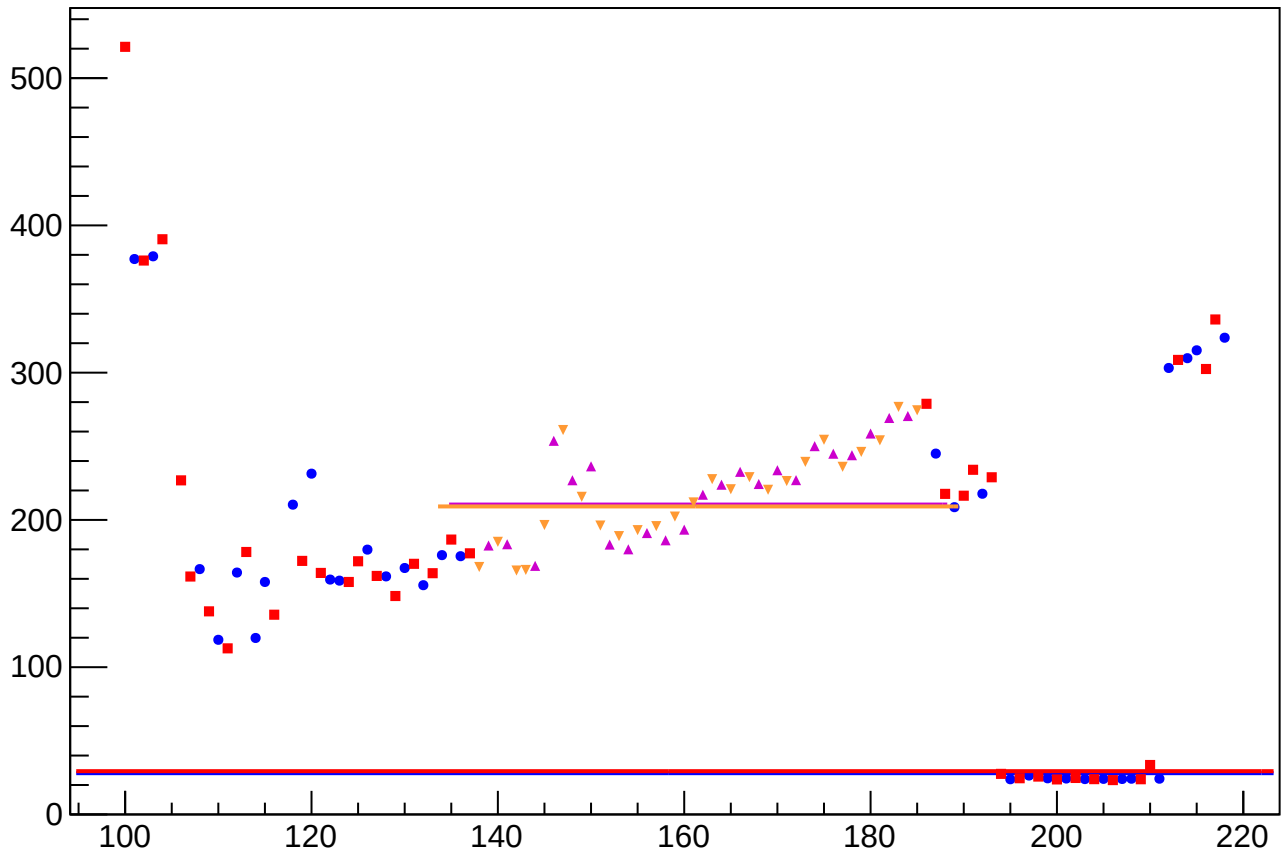
All: 183.699 $\pm$ 0.016 χ^2 /NDF: 17143859.9/117

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10297.072 $\pm$ 0.009	χ^2/NDF : 6559543902722.5/32	Left: 151423.440 $\pm$ 0.036	χ^2/NDF : 2913216467.1/4
Left Out: 151480.339 $\pm$ 0.049	χ^2/NDF : 1483692735.3/24	Right: -9501.204 $\pm$ 0.007	χ^2/NDF : 1424357355442.0
Right Out: -8549.276 $\pm$ 0.010	χ^2/NDF : 7667544552353.8/35	In: -5260.227 $\pm$ 0.009	χ^2/NDF : 16210808614056.8
Left In: 151362.440 $\pm$ 0.051	χ^2/NDF : 1426782789.9/22	Out: -2211.500 $\pm$ 0.010	χ^2/NDF : 17718286074358.0
		All: -3865.350 $\pm$ 0.007	χ^2/NDF : 3398111357.0

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.035 ± 0.006 $\chi^2/\text{NDF}: 16338964.6/32$

Left Out: 209.156 ± 0.035 $\chi^2/\text{NDF}: 710094.9/24$

Right Out: 29.396 ± 0.007 $\chi^2/\text{NDF}: 17153934.3/35$

Left In: 210.431 ± 0.036 $\chi^2/\text{NDF}: 684015.0/22$

Left: 209.771 ± 0.025 $\chi^2/\text{NDF}: 1394750.9/47$

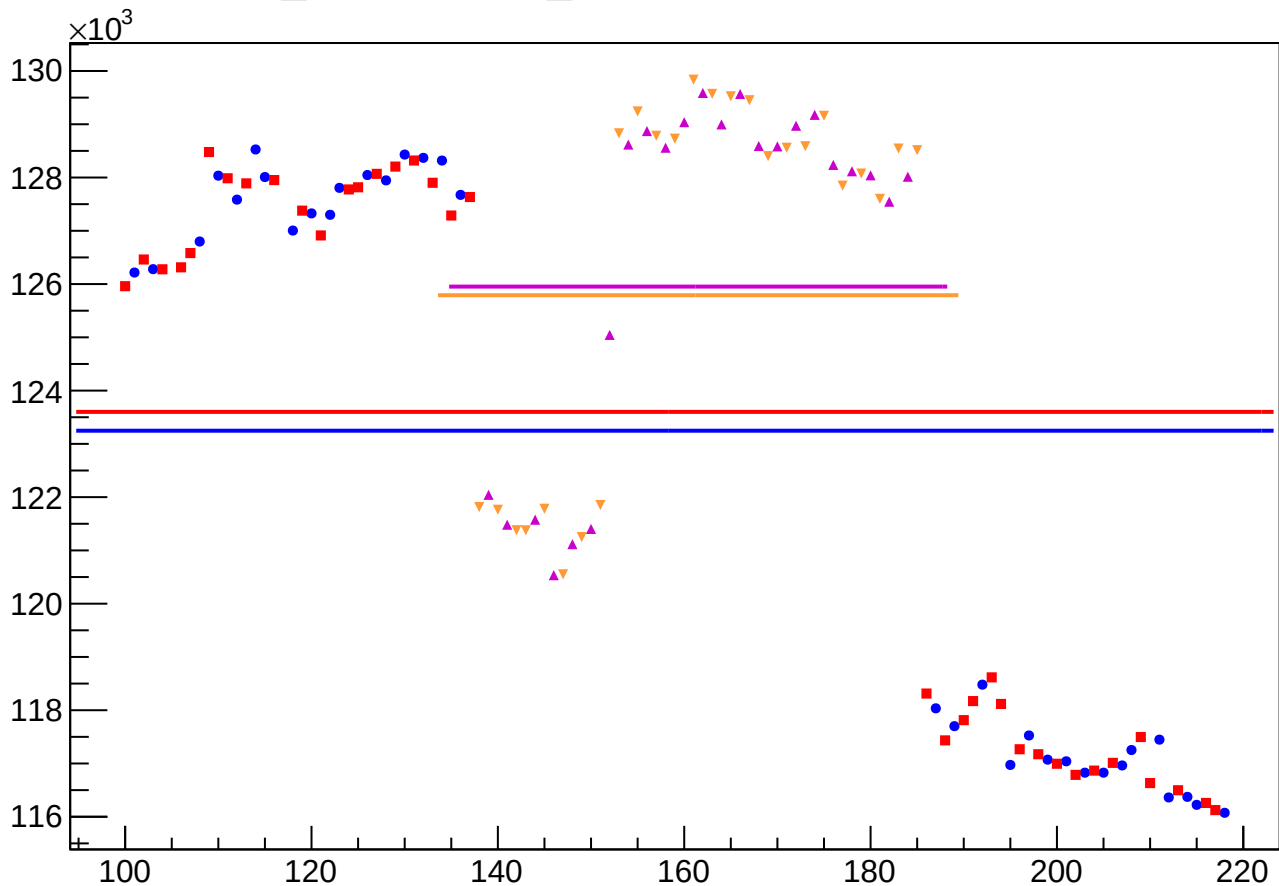
Right: 28.655 ± 0.005 $\chi^2/\text{NDF}: 33512887.8/68$

In: 33.718 ± 0.006 $\chi^2/\text{NDF}: 41591277.0/55$

Out: 36.515 ± 0.007 $\chi^2/\text{NDF}: 43223890.3/60$

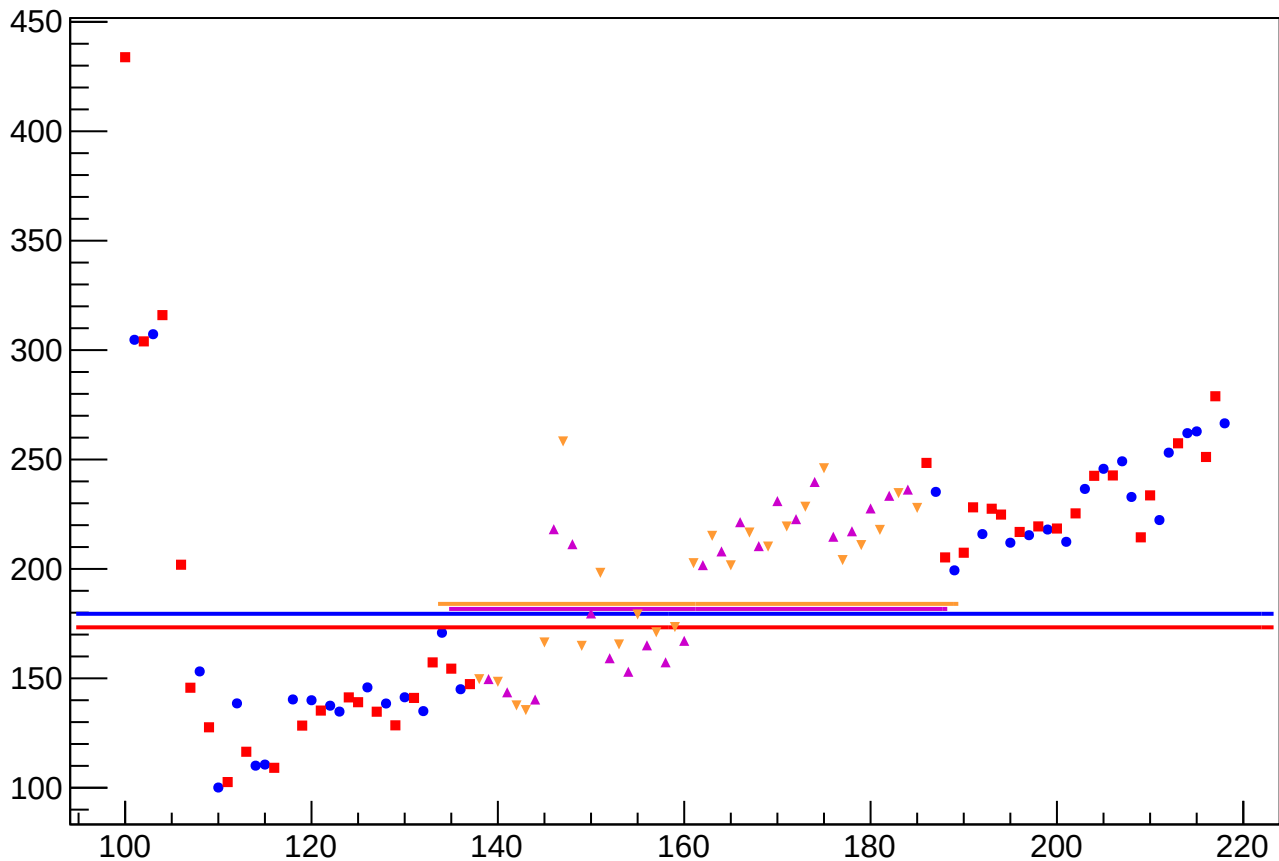
All: 34.998 ± 0.005 $\chi^2/\text{NDF}: 84902742.4/116$

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123247.218 $\pm$ 0.044	χ^2 /NDF: 14084487429.5/32	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6/32
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 123432.061 $\pm$ 0.031	χ^2 /NDF: 28842227048.1/24
Right Out: 123600.829 $\pm$ 0.042	χ^2 /NDF: 14724656479.5/35	In: 124593.341 $\pm$ 0.032	χ^2 /NDF: 21769465129.9/35
Left In: 125952.447 $\pm$ 0.045	χ^2 /NDF: 5841800367.5/22	Out: 124657.777 $\pm$ 0.031	χ^2 /NDF: 22751734287.0/22
		All: 124626.556 $\pm$ 0.022	χ^2 /NDF: 445233555/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 179.496 $\pm$ 0.031 χ^2 /NDF: 2933528.0/32

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 173.309 $\pm$ 0.030 χ^2 /NDF: 3354182.5/35

Left In: 181.714 $\pm$ 0.032 χ^2 /NDF: 1116142.0/22

Left: 182.890 $\pm$ 0.022 χ^2 /NDF: 2245464.4/47

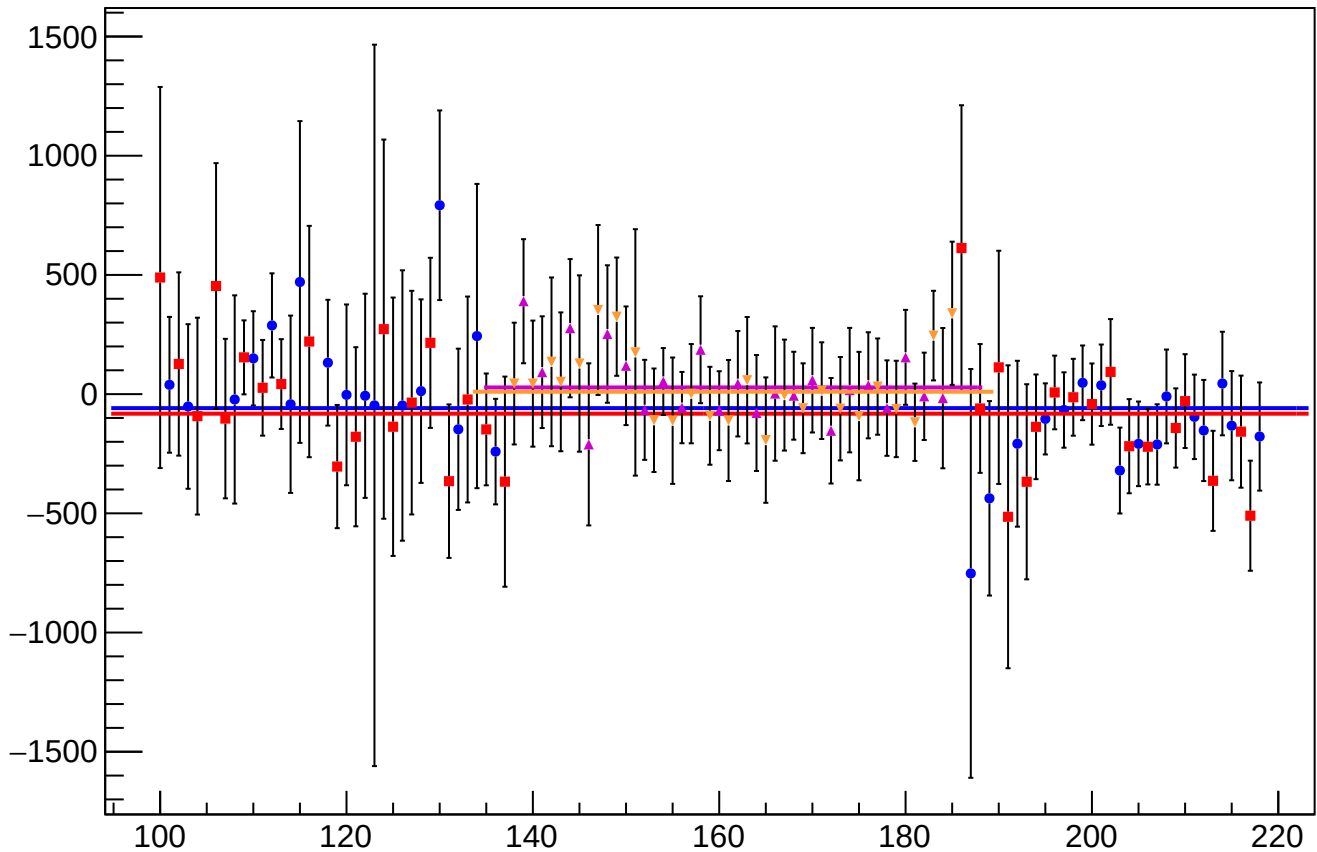
Right: 176.262 $\pm$ 0.022 χ^2 /NDF: 6307969.7/68

In: 180.600 $\pm$ 0.022 χ^2 /NDF: 4052147.7/55

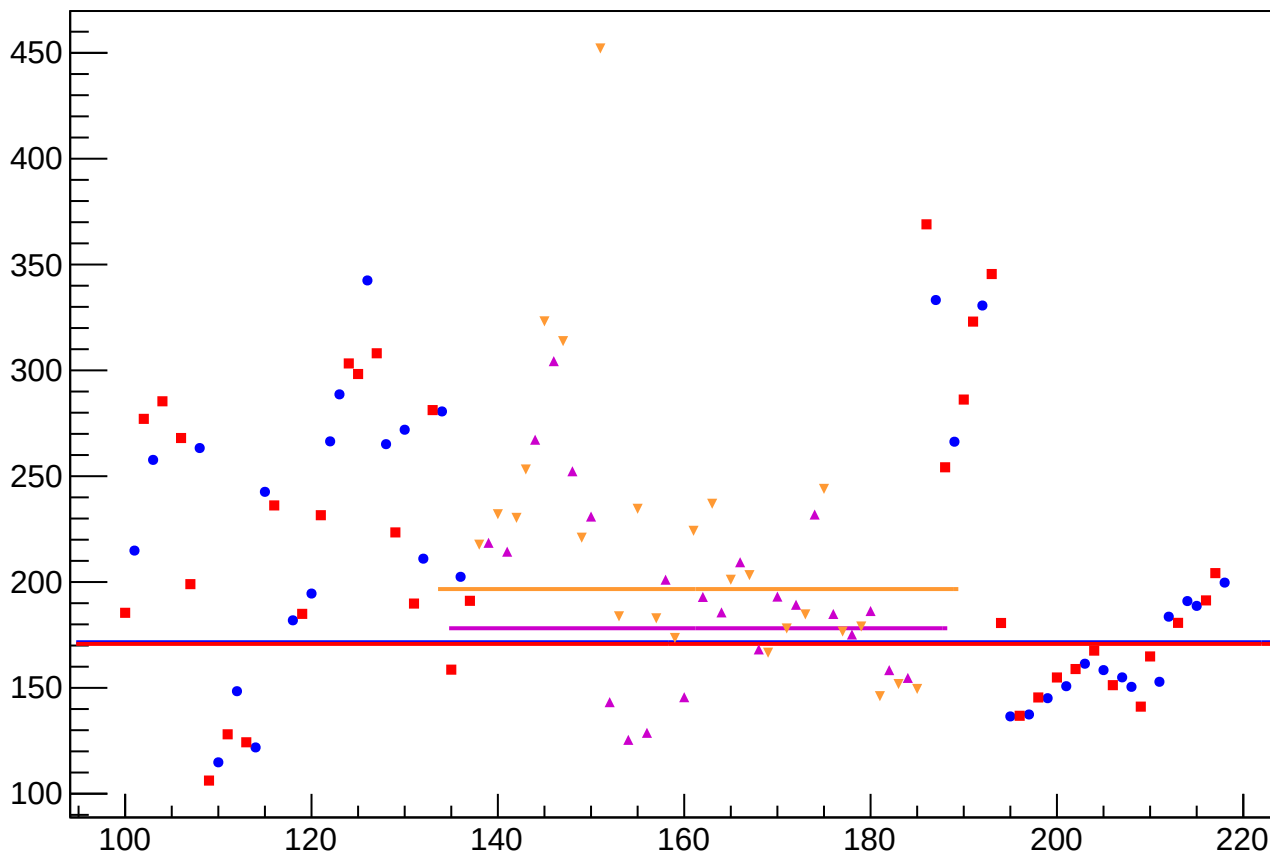
Out: 178.484 $\pm$ 0.022 χ^2 /NDF: 4542294.4/60

All: 179.509 $\pm$ 0.016 χ^2 /NDF: 8599089.9/116

asym_bcm_an_ds_mean vs Slug, Sign Corrected



asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 171.550 $\pm$ 0.030 χ^2 /NDF: 2210403.7/32

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 170.777 $\pm$ 0.029 χ^2 /NDF: 2907033.8/35

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

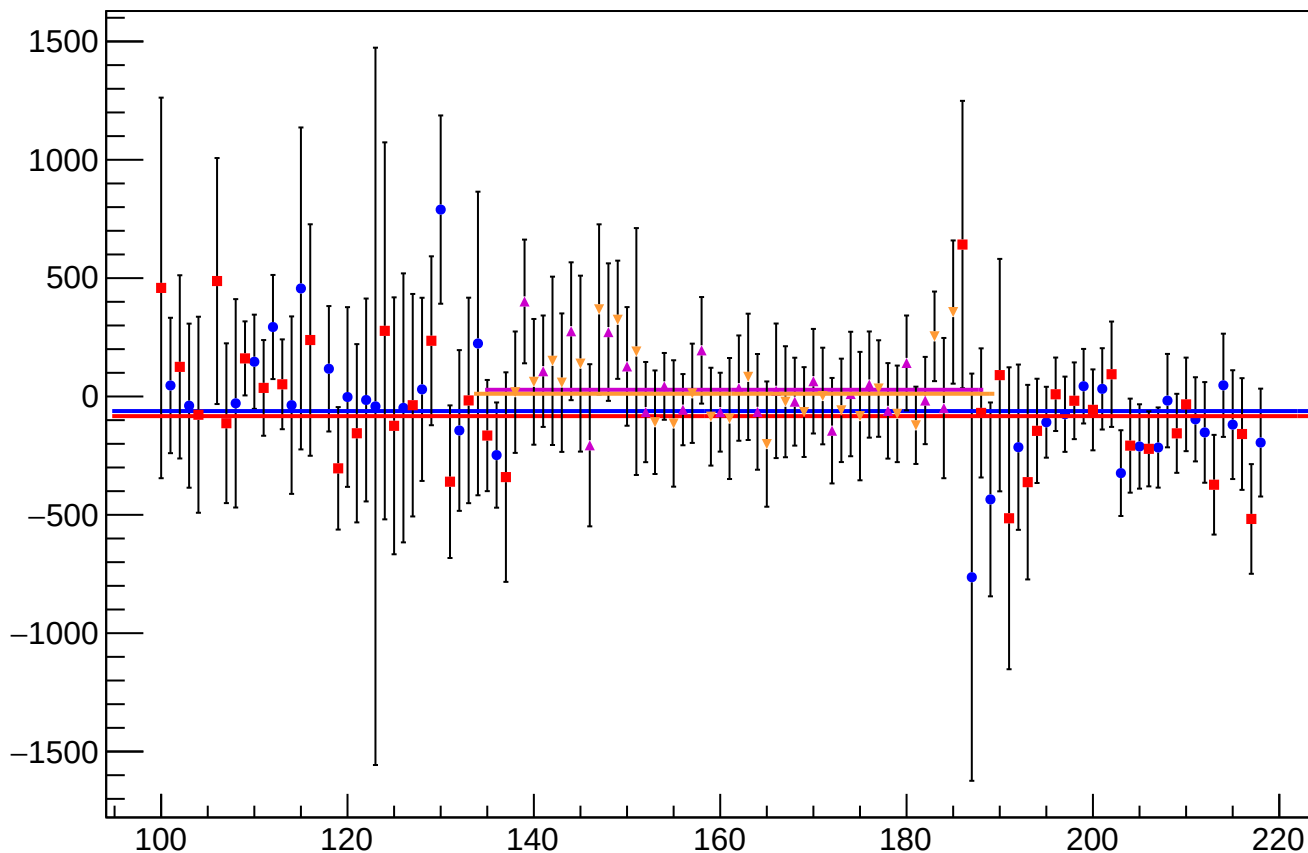
Right: 171.162 $\pm$ 0.021 χ^2 /NDF: 5117779.5/68

In: 174.653 $\pm$ 0.022 χ^2 /NDF:3852766.5/55

Out: 182.047 $\pm$ 0.022 χ^2 /NDF:5025954.6/60

All: 178.255 $\pm$ 0.015 χ^2 /NDF: 8935888.5/116

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -61.572 ± 42.080 $\chi^2/\text{NDF}: 17.6/32$

Left Out: 11.479 ± 47.819 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -83.044 ± 41.873 $\chi^2/\text{NDF}: 19.3/35$

Left In: 28.280 ± 44.863 $\chi^2/\text{NDF}: 7.1/22$

Left: 20.415 ± 32.718 $\chi^2/\text{NDF}: 16.0/47$

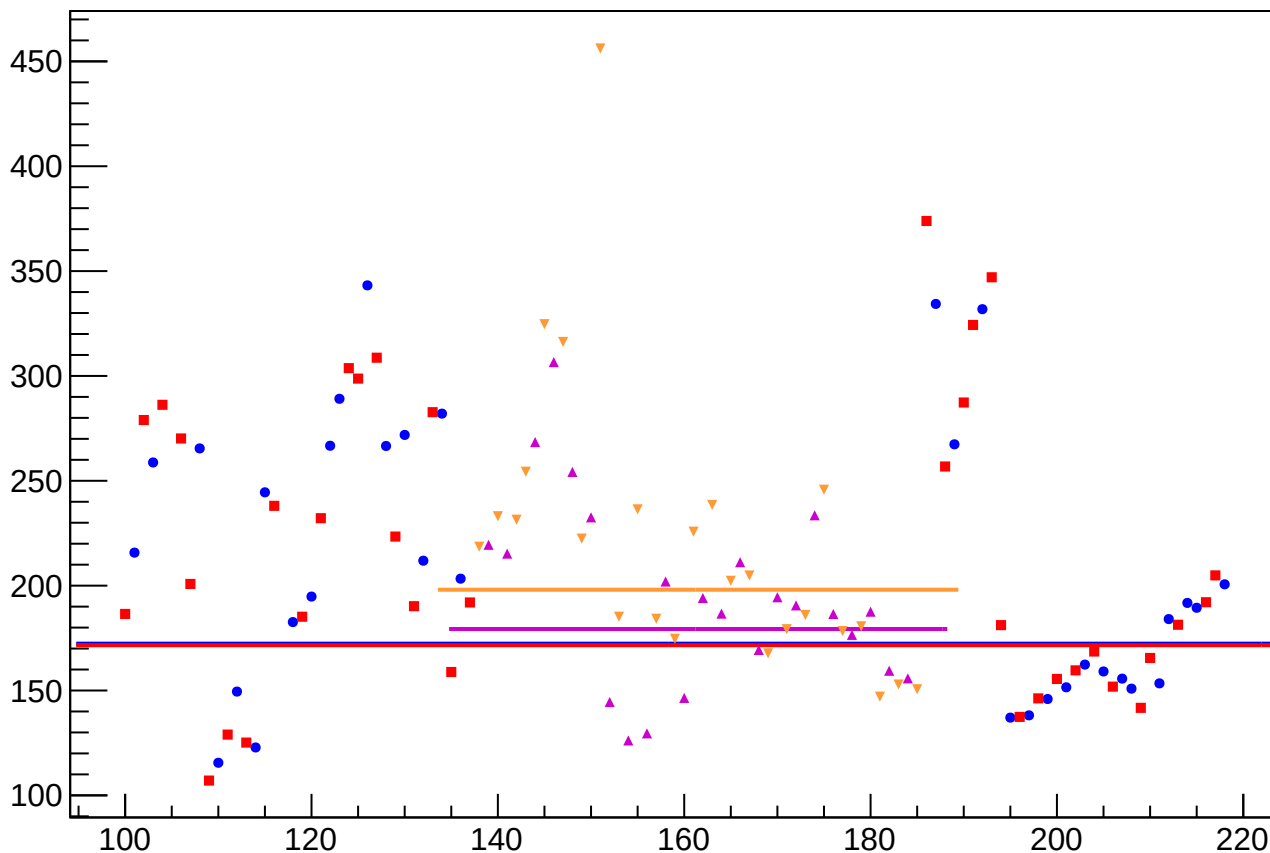
Right: -72.361 ± 29.681 $\chi^2/\text{NDF}: 37.1/68$

In: -19.520 ± 30.692 $\chi^2/\text{NDF}: 26.8/55$

Out: -42.021 ± 31.503 $\chi^2/\text{NDF}: 30.4/60$

All: -30.477 ± 21.983 $\chi^2/\text{NDF}: 57.5/116$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 172.343 ± 0.030 $\chi^2/\text{NDF}: 2201537.3/32$

Left Out: 198.059 ± 0.034 $\chi^2/\text{NDF}: 1778526.5/24$

Right Out: 171.605 ± 0.030 $\chi^2/\text{NDF}: 2901978.4/35$

Left In: 179.324 ± 0.032 $\chi^2/\text{NDF}: 1618266.2/22$

Left: 188.094 ± 0.023 $\chi^2/\text{NDF}: 3560073.1/47$

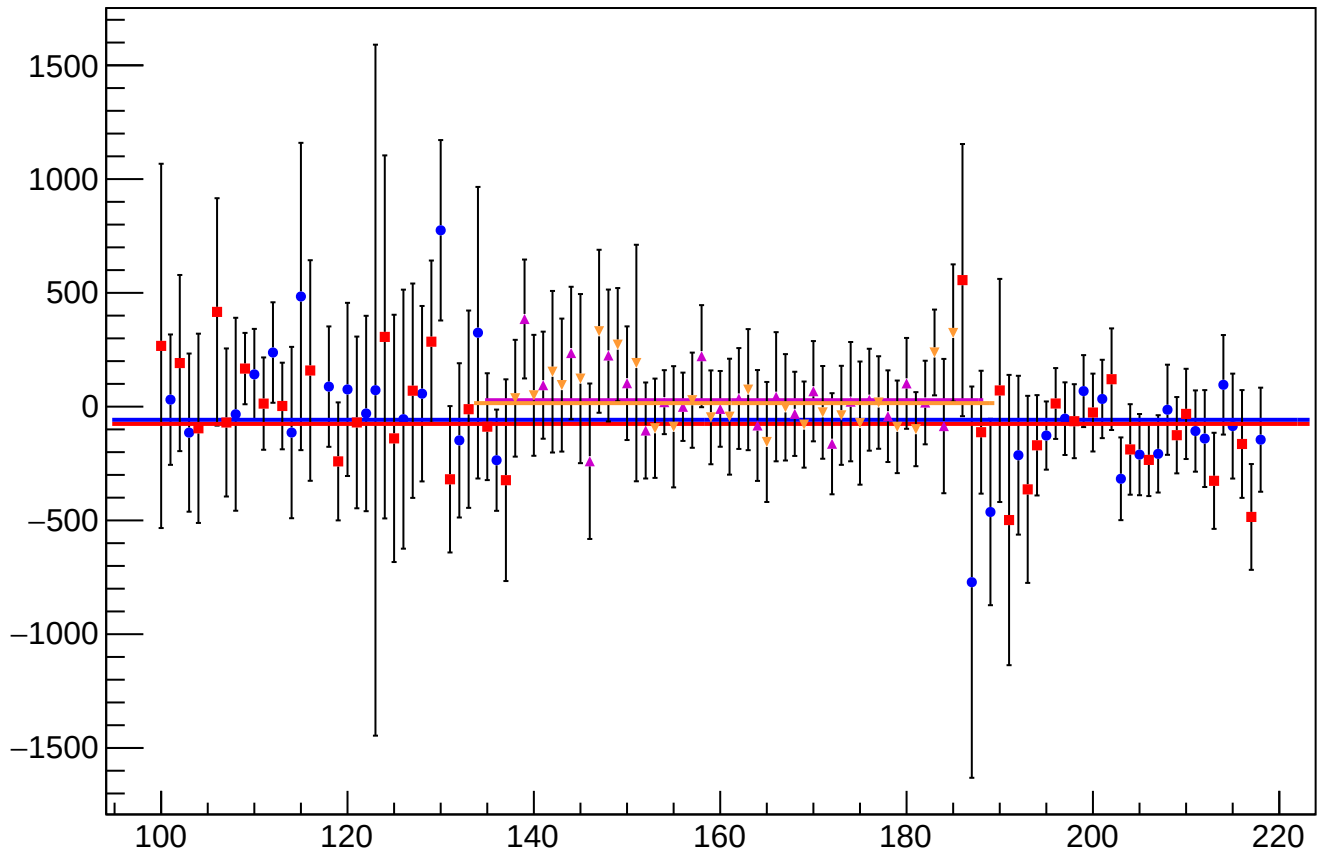
Right: 171.972 ± 0.021 $\chi^2/\text{NDF}: 5103824.8/68$

In: 175.610 ± 0.022 $\chi^2/\text{NDF}: 3845562.9/55$

Out: 183.086 ± 0.022 $\chi^2/\text{NDF}: 5026934.0/60$

All: 179.251 ± 0.016 $\chi^2/\text{NDF}: 8930279.9/116$

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -57.844 ± 42.167 $\chi^2/\text{NDF}: 17.1/32$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -75.933 ± 41.911 $\chi^2/\text{NDF}: 16.9/35$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

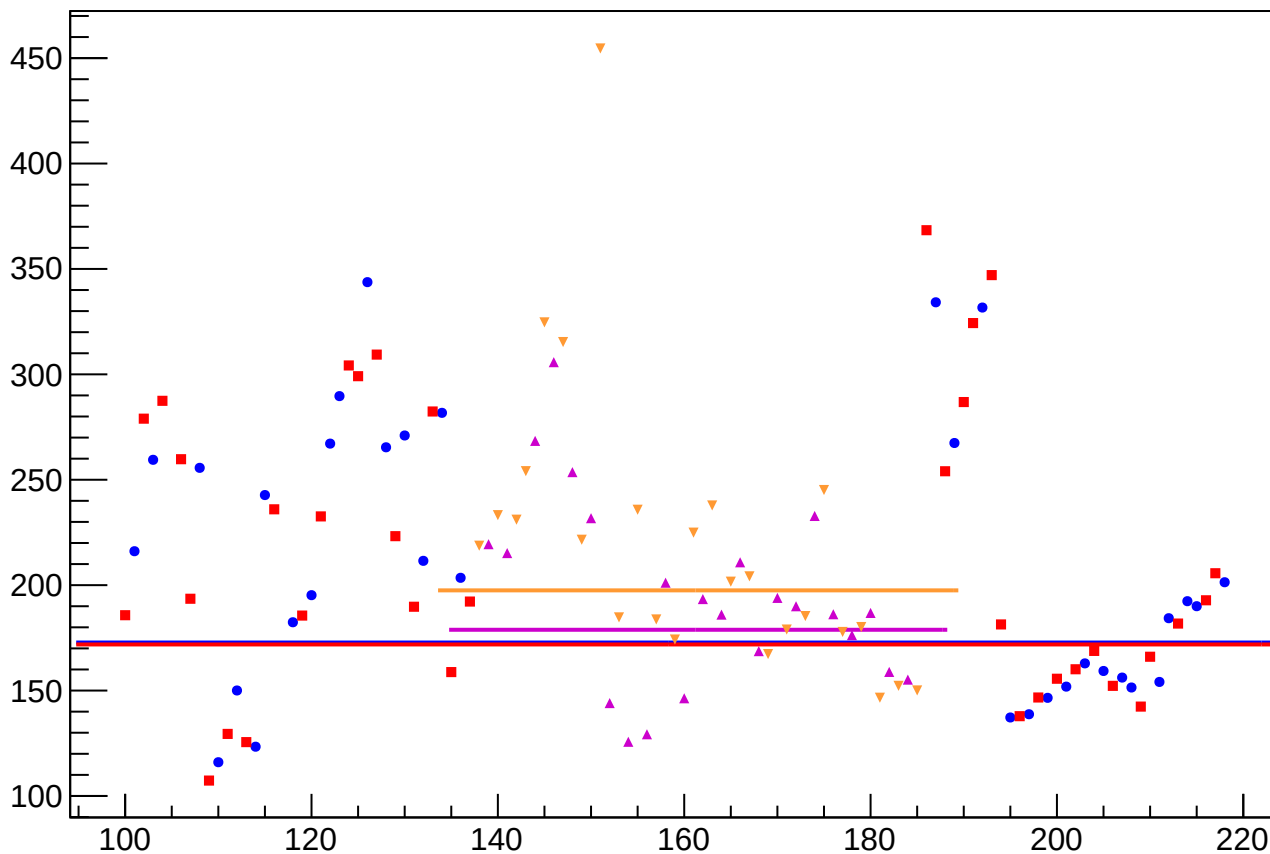
Right: -66.943 ± 29.726 $\chi^2/\text{NDF}: 34.1/68$

In: -17.334 ± 30.687 $\chi^2/\text{NDF}: 25.4/55$

Out: -36.121 ± 31.483 $\chi^2/\text{NDF}: 26.0/60$

All: -26.487 ± 21.975 $\chi^2/\text{NDF}: 51.5/116$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 172.783 $\pm$ 0.030 χ^2 /NDF: 2169586.8/32

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF:1784225.5/24

Right Out: 171.873 $\pm$ 0.030 χ^2 /NDF: 2855966.2/35

Left In: 178.836 $\pm$ 0.032 χ^2 /NDF:1622266.9/22

Left: 187.585 $\pm$ 0.023 χ^2 /NDF: 3569877.1/47

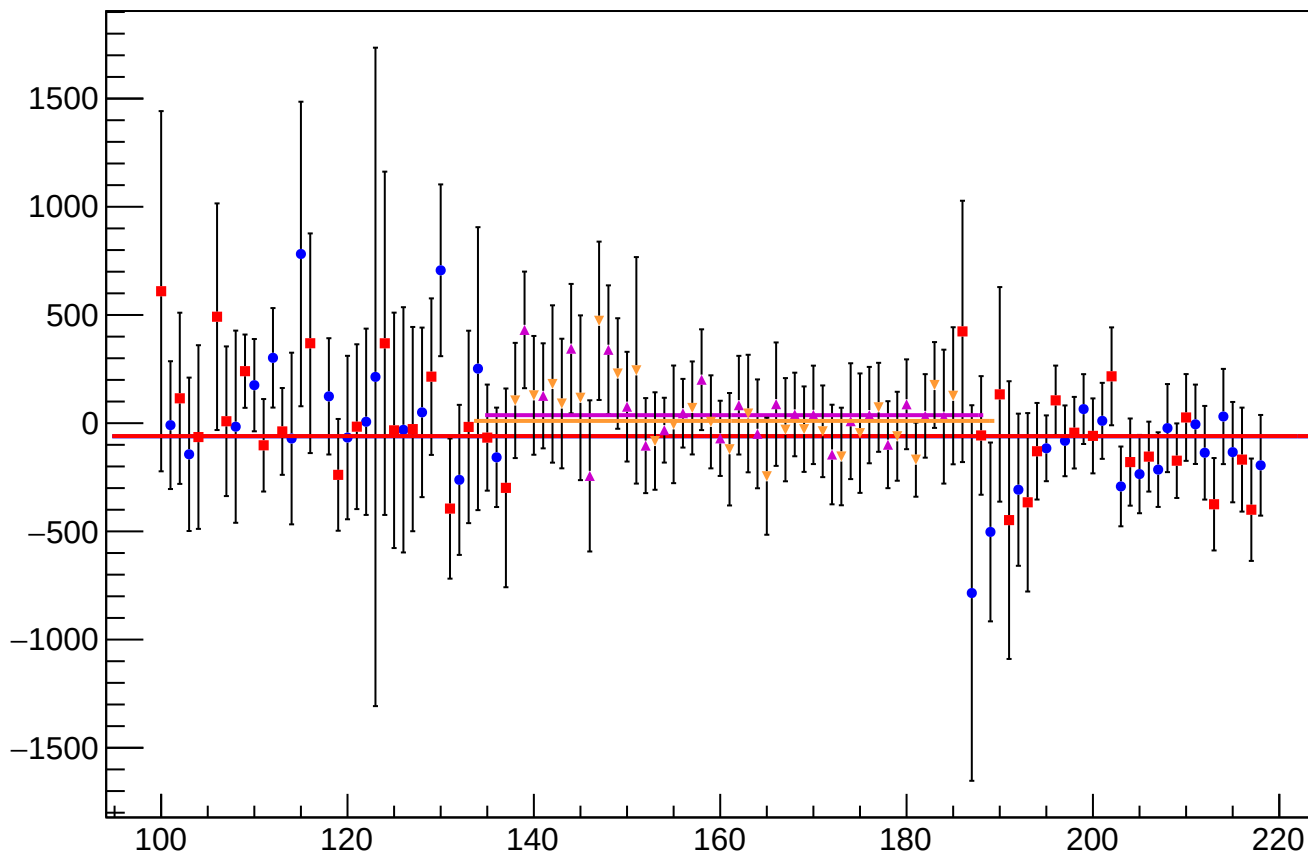
Right: 172.326 $\pm$ 0.021 χ^2 /NDF: 5026021.5/68

In: 175.630 $\pm$ 0.022 χ^2 /NDF:3811235.6/55

Out: 183.051 $\pm$ 0.022 χ^2 /NDF:4966698.7/60

All: 179.246 $\pm$ 0.016 χ^2 /NDF: 8834920.6/116

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -60.943 ± 43.058 $\chi^2/\text{NDF}: 17.8/32$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -59.623 ± 42.987 $\chi^2/\text{NDF}: 18.7/35$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

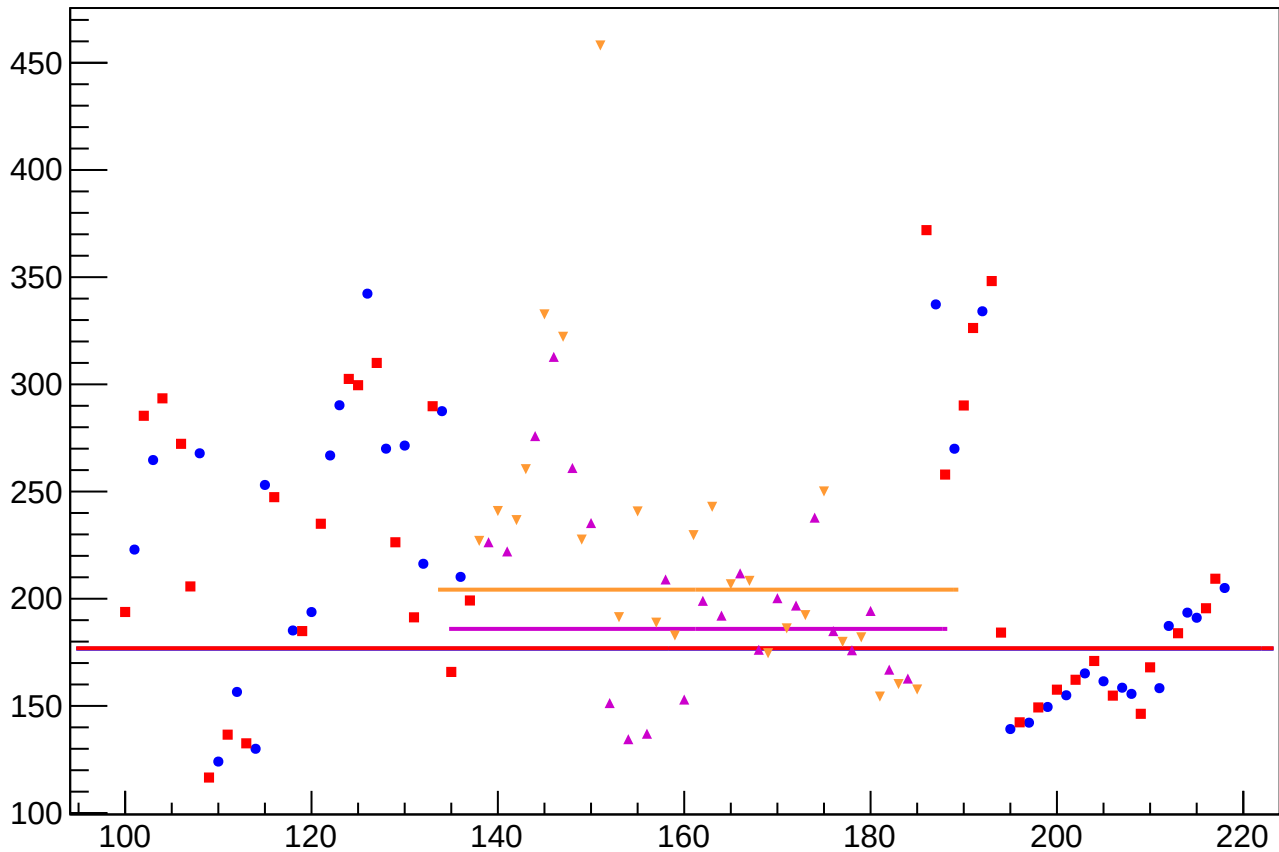
Right: -60.282 ± 30.421 $\chi^2/\text{NDF}: 36.5/68$

In: -15.581 ± 31.549 $\chi^2/\text{NDF}: 28.0/55$

Out: -29.249 ± 32.371 $\chi^2/\text{NDF}: 27.4/60$

All: -22.239 ± 22.593 $\chi^2/\text{NDF}: 55.5/116$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 176.695 ± 0.030 χ^2/NDF : 2083577.5/32

Left Out: 204.236 ± 0.035 χ^2/NDF : 1675666.0/24

Right Out: 176.909 ± 0.030 χ^2/NDF : 2664862.9/35

Left In: 185.931 ± 0.033 χ^2/NDF : 1460065.0/22

Left: 194.540 ± 0.024 χ^2/NDF : 3282383.3/47

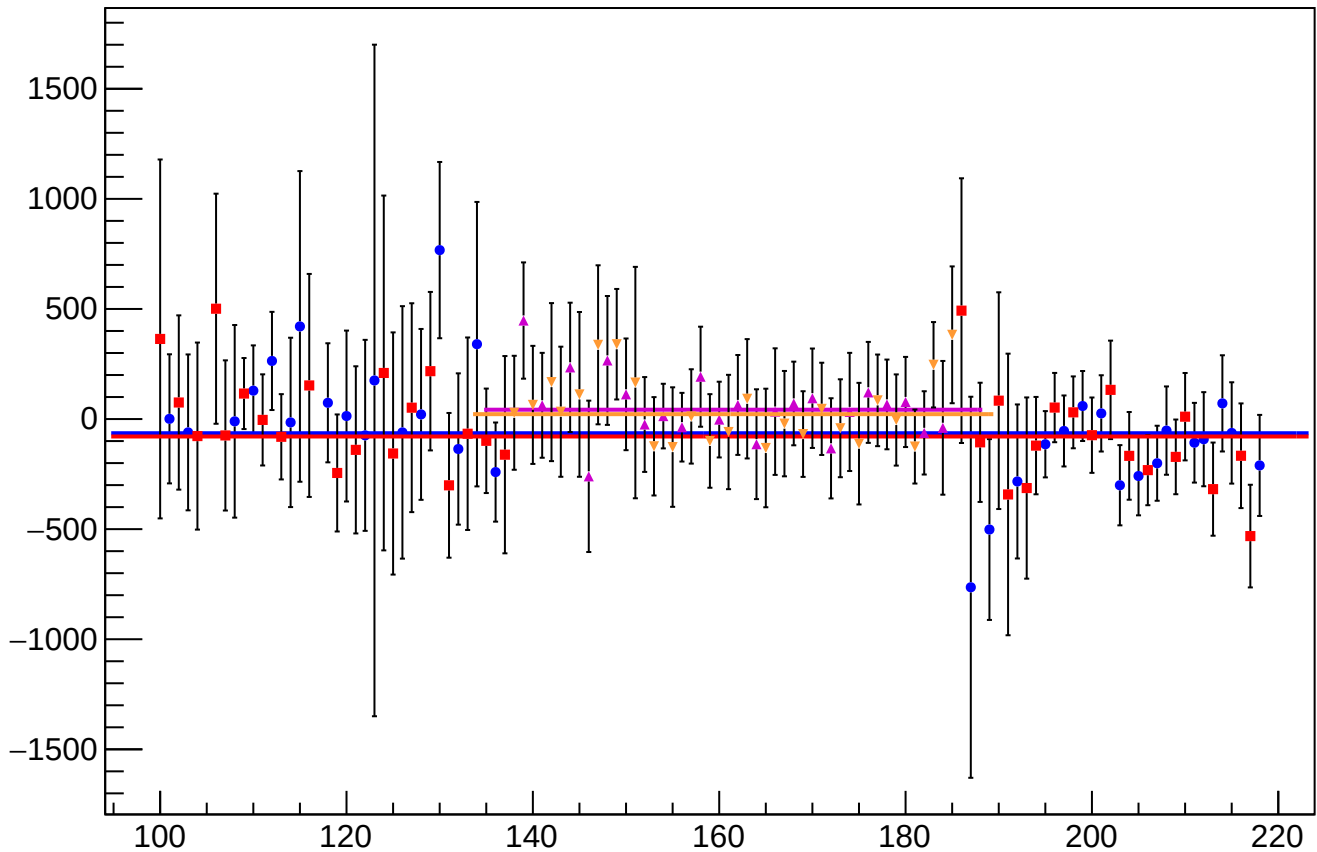
Right: 176.802 ± 0.022 χ^2/NDF : 4748465.2/68

In: 180.973 ± 0.022 χ^2/NDF : 3586266.4/55

Out: 188.740 ± 0.023 χ^2/NDF : 4690443.7/60

All: 184.757 ± 0.016 χ^2/NDF : 8335764.9/116

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -64.372 ± 42.526 $\chi^2/\text{NDF}: 16.9/32$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -79.213 ± 42.335 $\chi^2/\text{NDF}: 15.7/35$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

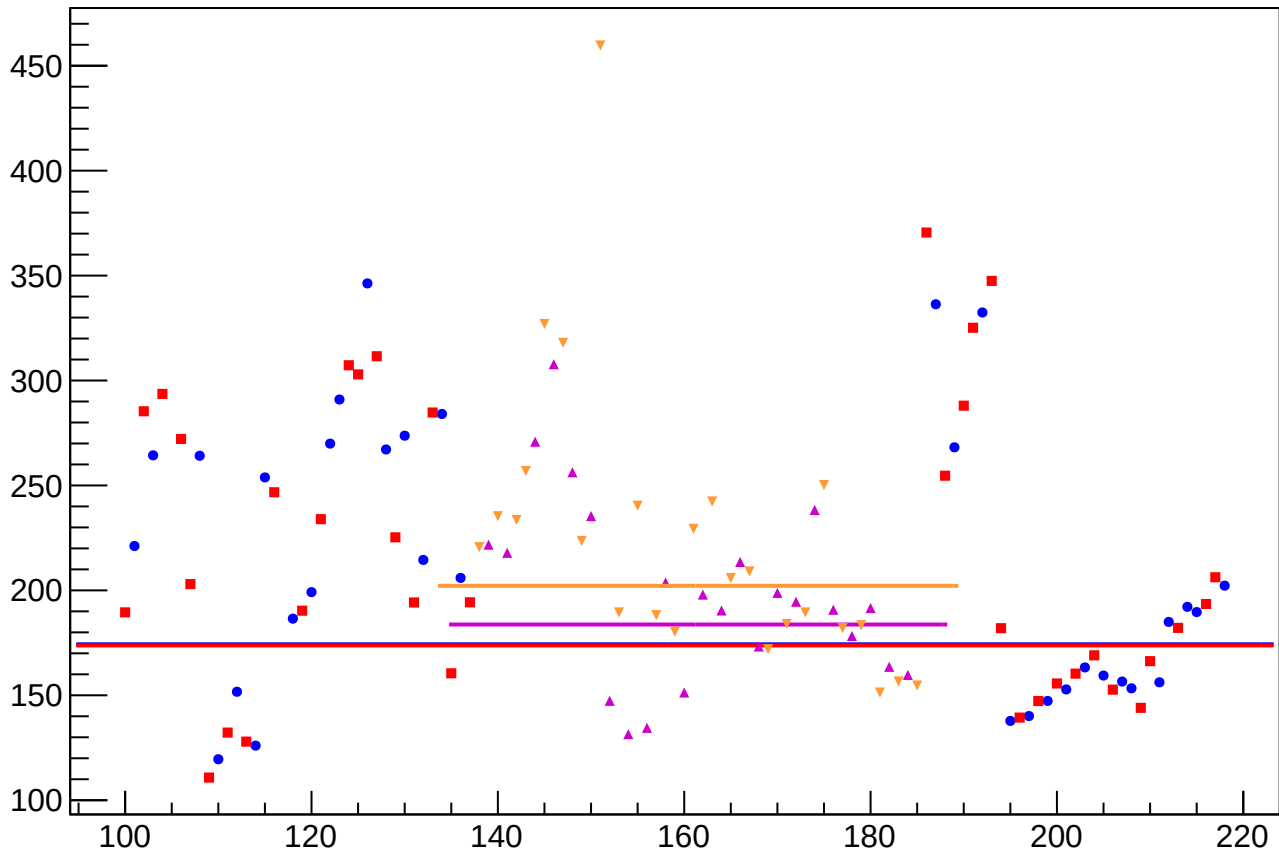
Right: -71.826 ± 30.003 $\chi^2/\text{NDF}: 32.6/68$

In: -14.987 ± 31.183 $\chi^2/\text{NDF}: 26.6/55$

Out: -35.606 ± 31.961 $\chi^2/\text{NDF}: 26.5/60$

All: -25.043 ± 22.320 $\chi^2/\text{NDF}: 53.3/116$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 174.290 ± 0.030 $\chi^2/\text{NDF}: 2168918.6/32$

Left Out: 202.186 ± 0.034 $\chi^2/\text{NDF}: 1696571.9/24$

Right Out: 173.755 ± 0.030 $\chi^2/\text{NDF}: 2829165.1/35$

Left In: 183.732 ± 0.032 $\chi^2/\text{NDF}: 1495930.4/22$

Left: 192.398 ± 0.024 $\chi^2/\text{NDF}: 3344580.1/47$

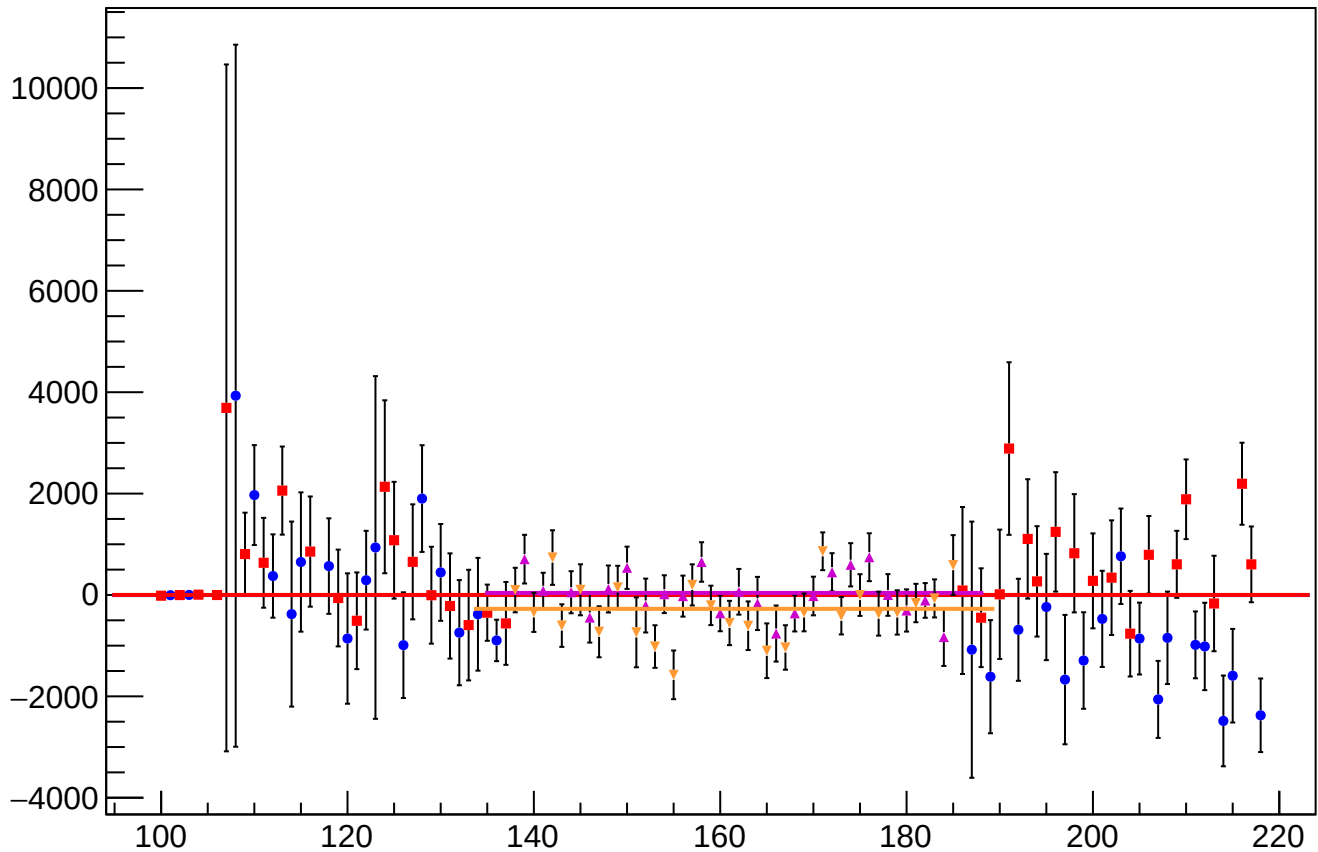
Right: 174.022 ± 0.021 $\chi^2/\text{NDF}: 4998242.7/68$

In: 178.656 ± 0.022 $\chi^2/\text{NDF}: 3710430.2/55$

Out: 185.982 ± 0.023 $\chi^2/\text{NDF}: 4913628.9/60$

All: 182.228 ± 0.016 $\chi^2/\text{NDF}: 8677896.7/116$

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.649 ± 2.251 χ^2/NDF : 58.7/32

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.787 ± 2.111 χ^2/NDF : 40.6/35

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

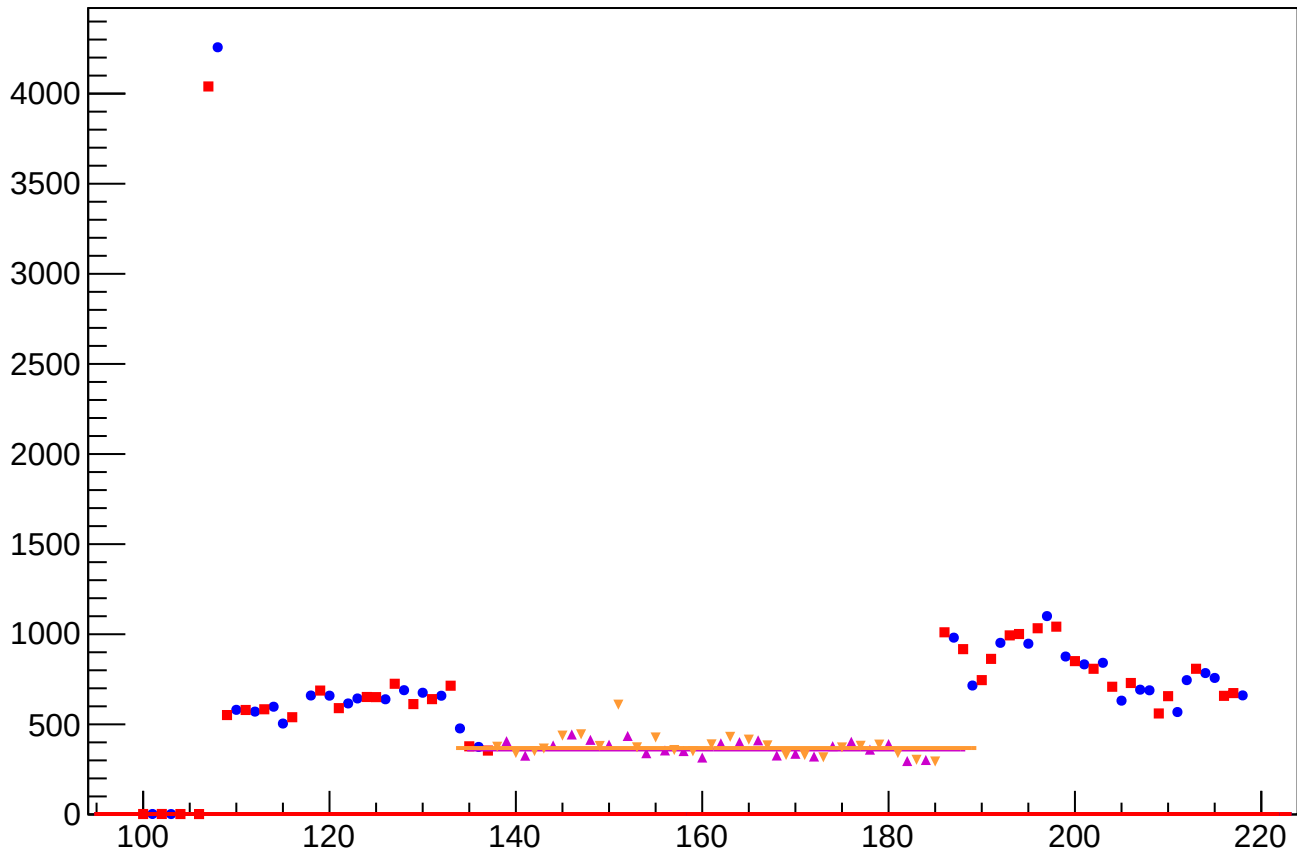
Right: -0.353 ± 1.540 χ^2/NDF : 99.9/68

In: -1.621 ± 2.251 χ^2/NDF : 79.1/55

Out: 0.625 ± 2.110 χ^2/NDF : 88.9/60

All: -0.426 ± 1.539 χ^2/NDF : 168.5/116

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.530 $\pm$ 0.002 χ^2 /NDF: 33296484.7/32

Left Out: 368.500 $\pm$ 0.061 χ^2 /NDF: 623011.6/24

Right Out: 2.501 $\pm$ 0.001 χ^2 /NDF: 34077991.1/35

Left In: 360.571 $\pm$ 0.062 χ^2 /NDF: 421995.5/22

Left: 364.563 $\pm$ 0.044 χ^2 /NDF: 1053279.8/47

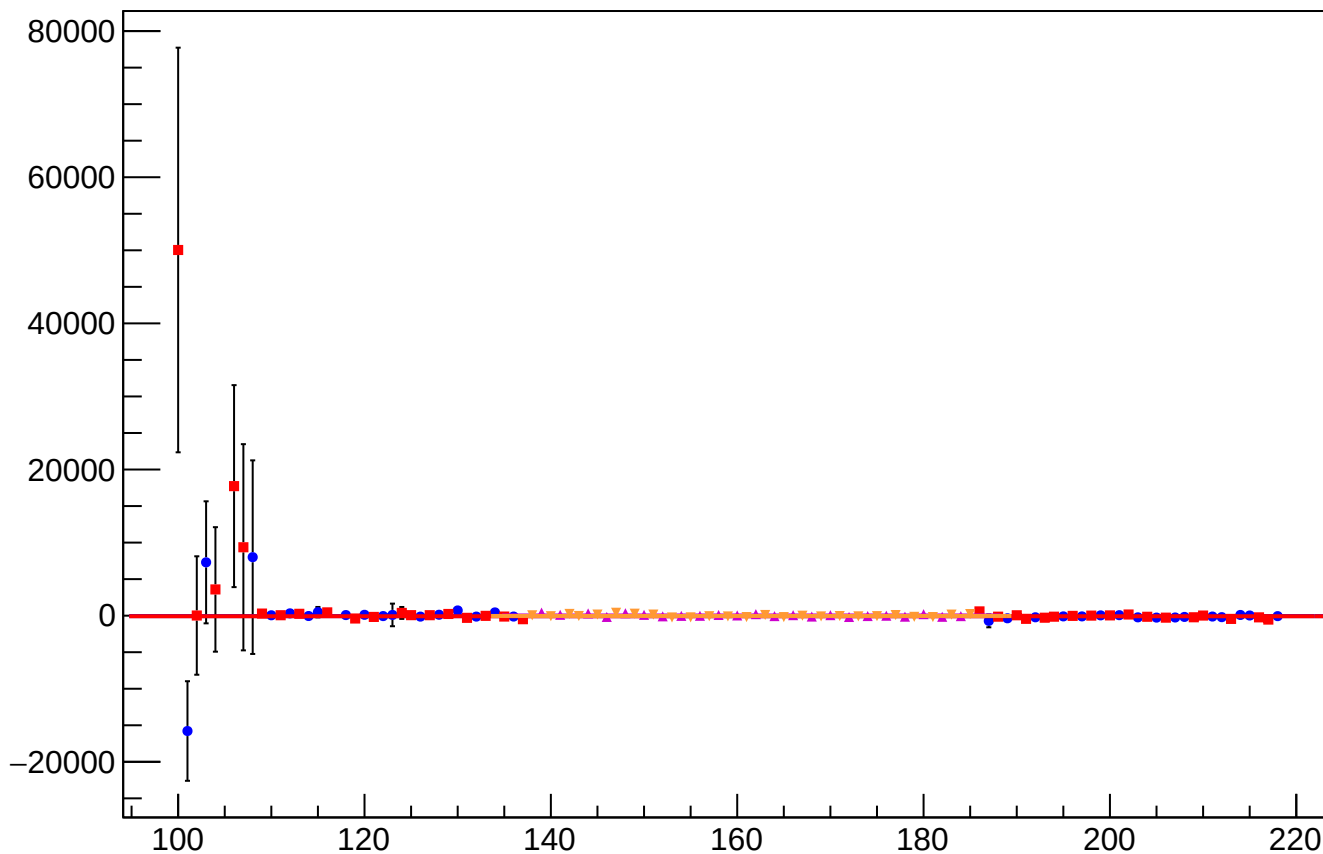
Right: 2.515 $\pm$ 0.001 χ^2 /NDF: 67374660.2/68

In: 2.767 $\pm$ 0.002 χ^2 /NDF: 67206536.1/55

Out: 2.717 $\pm$ 0.001 χ^2 /NDF: 70182461.5/60

All: 2.741 $\pm$ 0.001 χ^2 /NDF: 137389536.7/116

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -58.002 ± 46.234 χ^2/NDF : 21.5/32

Left Out: -39.036 ± 49.576 χ^2/NDF : 9.1/24

Right Out: -79.877 ± 46.635 χ^2/NDF : 28.4/35

Left In: 28.062 ± 48.032 χ^2/NDF : 9.6/22

Left: -4.426 ± 34.497 χ^2/NDF : 19.7/47

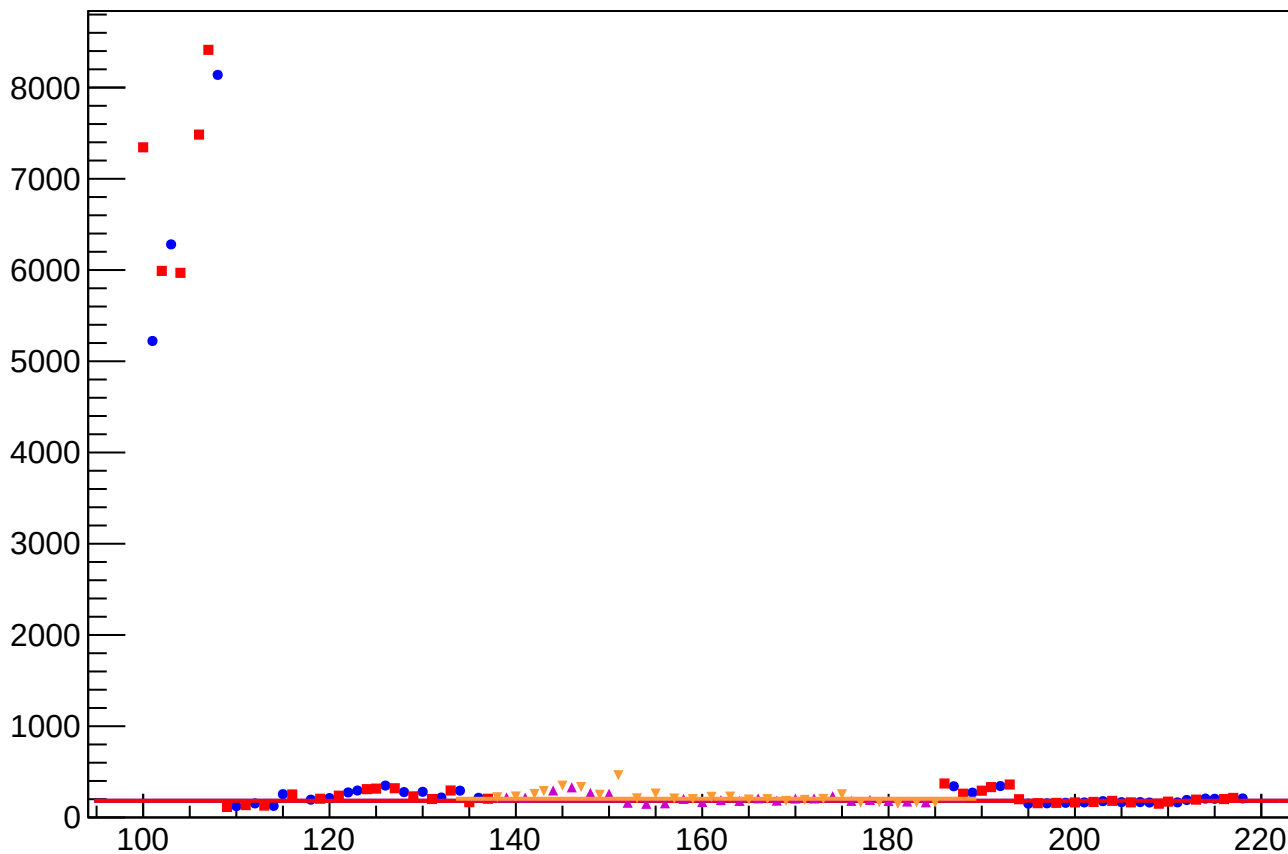
Right: -68.845 ± 32.833 χ^2/NDF : 50.0/68

In: -16.612 ± 33.310 χ^2/NDF : 32.8/55

Out: -60.704 ± 33.968 χ^2/NDF : 37.9/60

All: -38.226 ± 23.783 χ^2/NDF : 71.5/116

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 182.748 $\pm$ 0.033 χ^2 /NDF: 4603077.6/32

Left Out: 205.114 $\pm$ 0.035 χ^2 /NDF:1957484.4/24

Right Out: 183.027 $\pm$ 0.033 χ^2 /NDF: 5472968.4/35

Left In: 193.616 $\pm$ 0.034 χ^2 /NDF:1179471.1/22

Left: 199.183 $\pm$ 0.024 χ^2 /NDF: 3192443.5/47

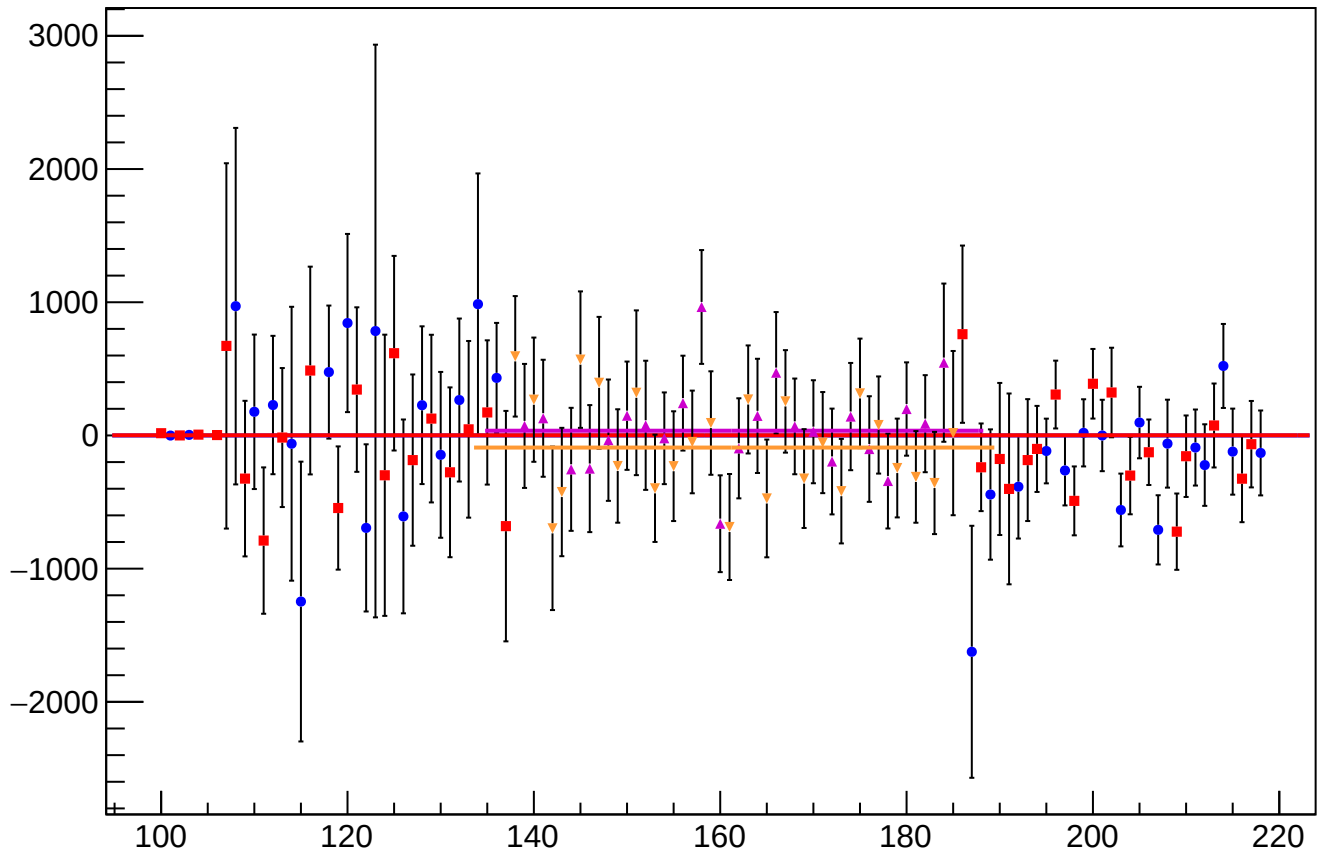
Right: 182.887 $\pm$ 0.023 χ^2 /NDF: 10076082.0/68

In: 187.975 $\pm$ 0.024 χ^2 /NDF:5835694.1/55

Out: 193.396 $\pm$ 0.024 χ^2 /NDF:7641057.6/60

All: 190.632 $\pm$ 0.017 χ^2 /NDF: 13502717.3/131

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.230 ± 1.736 χ^2/NDF : 31.6/32

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.278 ± 1.622 χ^2/NDF : 29.1/35

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

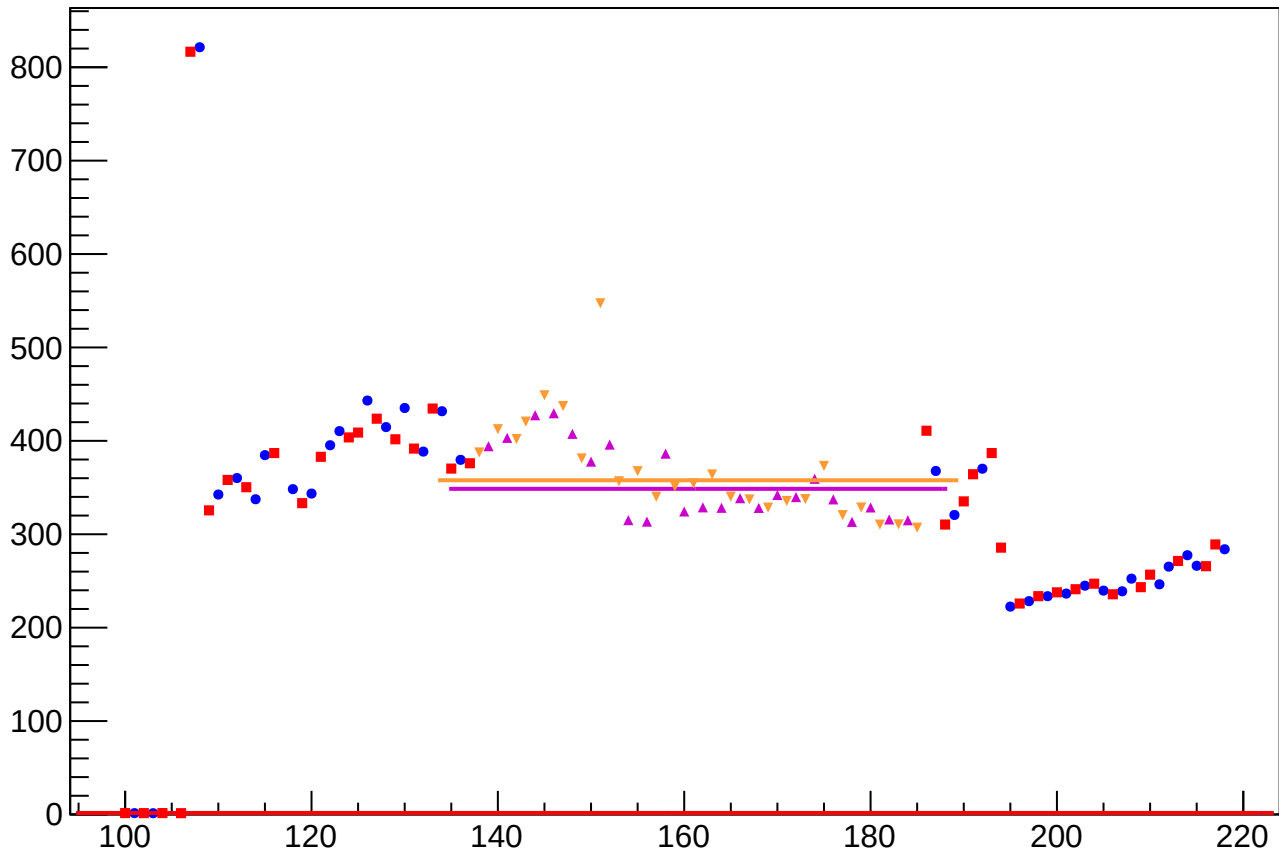
Right: 0.575 ± 1.185 χ^2/NDF : 61.0/68

In: -0.215 ± 1.736 χ^2/NDF : 45.2/55

Out: 1.244 ± 1.622 χ^2/NDF : 46.7/60

All: 0.564 ± 1.185 χ^2/NDF : 92.2/116

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.586 ± 0.001 χ^2/NDF : 33492568.6/32

Left Out: 357.804 ± 0.059 χ^2/NDF : 547036.5/24

Right Out: 1.564 ± 0.001 χ^2/NDF : 33740125.6/35

Left In: 348.611 ± 0.060 χ^2/NDF : 362511.2/22

Left: 353.224 ± 0.042 χ^2/NDF : 921460.0/47

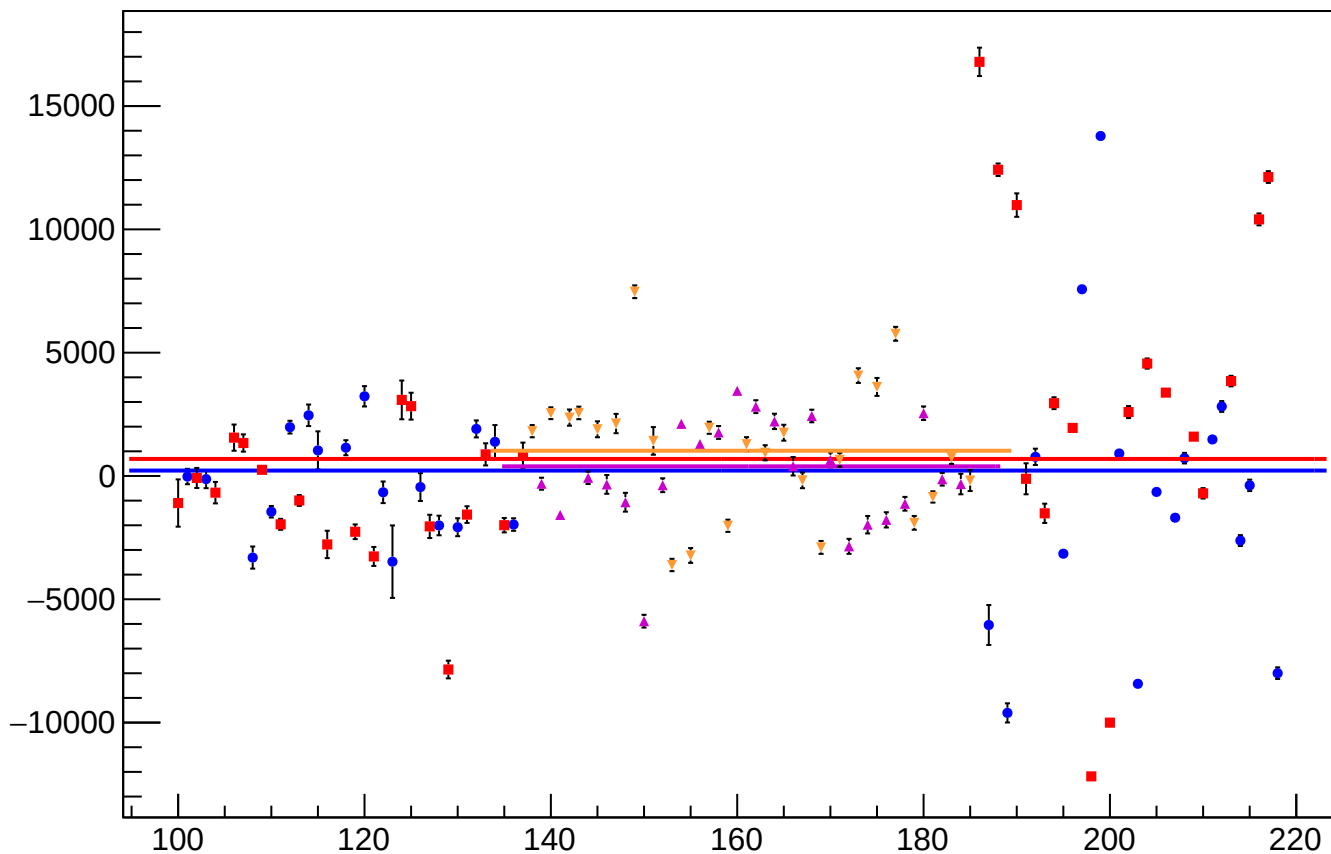
Right: 1.574 ± 0.001 χ^2/NDF : 67232865.2/68

In: 1.733 ± 0.001 χ^2/NDF : 67666589.5/55

Out: 1.697 ± 0.001 χ^2/NDF : 70177996.8/60

All: 1.713 ± 0.001 χ^2/NDF : 137845051.9/116

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 219.109 ± 45.763 $\chi^2/\text{NDF}: 12622.2/32$

Left Out: 1023.439 ± 57.338 $\chi^2/\text{NDF}: 2309.4/24$

Right Out: 690.901 ± 45.431 $\chi^2/\text{NDF}: 17900.5/35$

Left In: 390.237 ± 54.931 $\chi^2/\text{NDF}: 1584.9/22$

Left: 693.270 ± 39.666 $\chi^2/\text{NDF}: 3957.9/47$

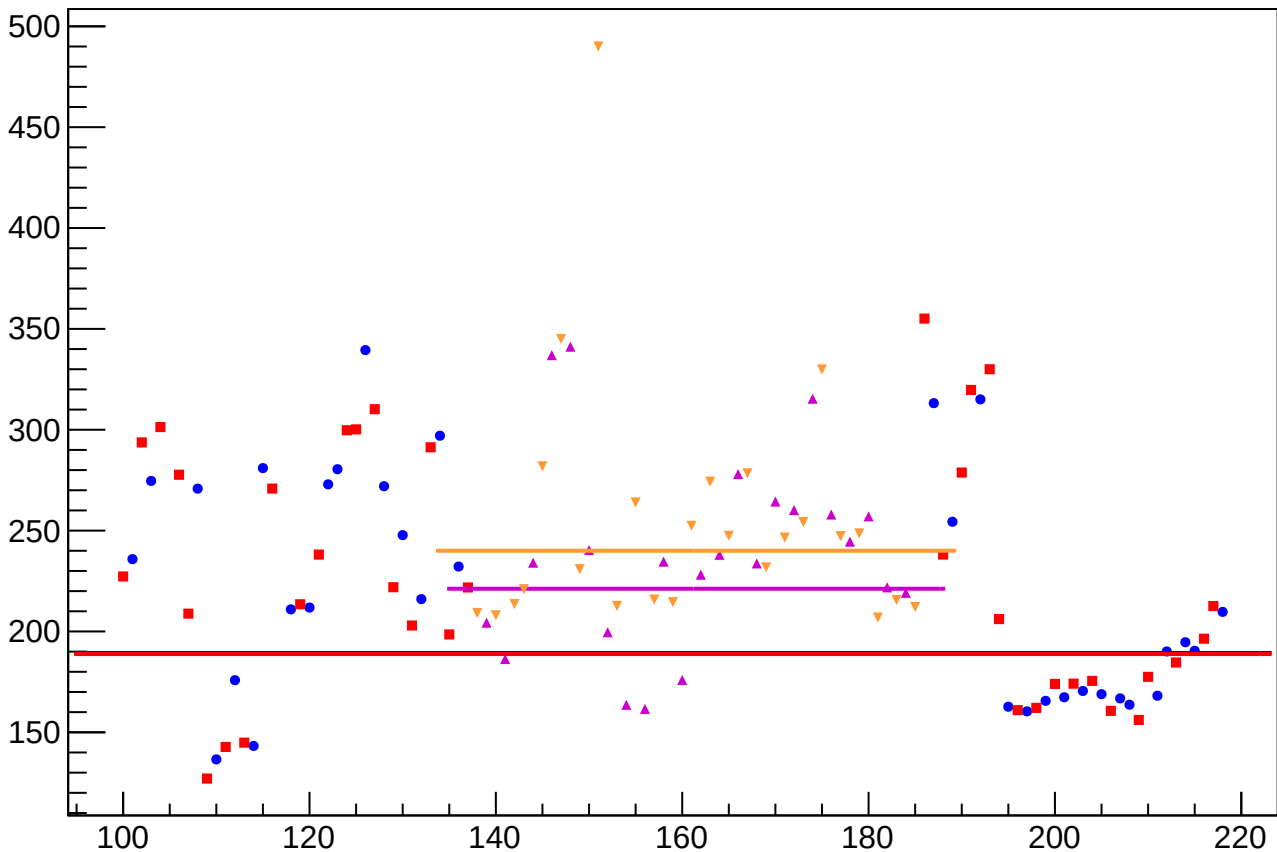
Right: 456.723 ± 32.241 $\chi^2/\text{NDF}: 30576.2/68$

In: 289.220 ± 35.160 $\chi^2/\text{NDF}: 14212.8/55$

Out: 819.151 ± 35.608 $\chi^2/\text{NDF}: 20230.5/60$

All: 550.829 ± 25.019 $\chi^2/\text{NDF}: 34555.5/116$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 189.333 ± 0.032 χ^2/NDF : 1559900.2/32

Left Out: 240.019 ± 0.041 χ^2/NDF : 1002427.9/24

Right Out: 188.795 ± 0.032 χ^2/NDF : 2144978.1/35

Left In: 221.173 ± 0.039 χ^2/NDF : 1342517.8/22

Left: 230.192 ± 0.028 χ^2/NDF : 2457612.6/47

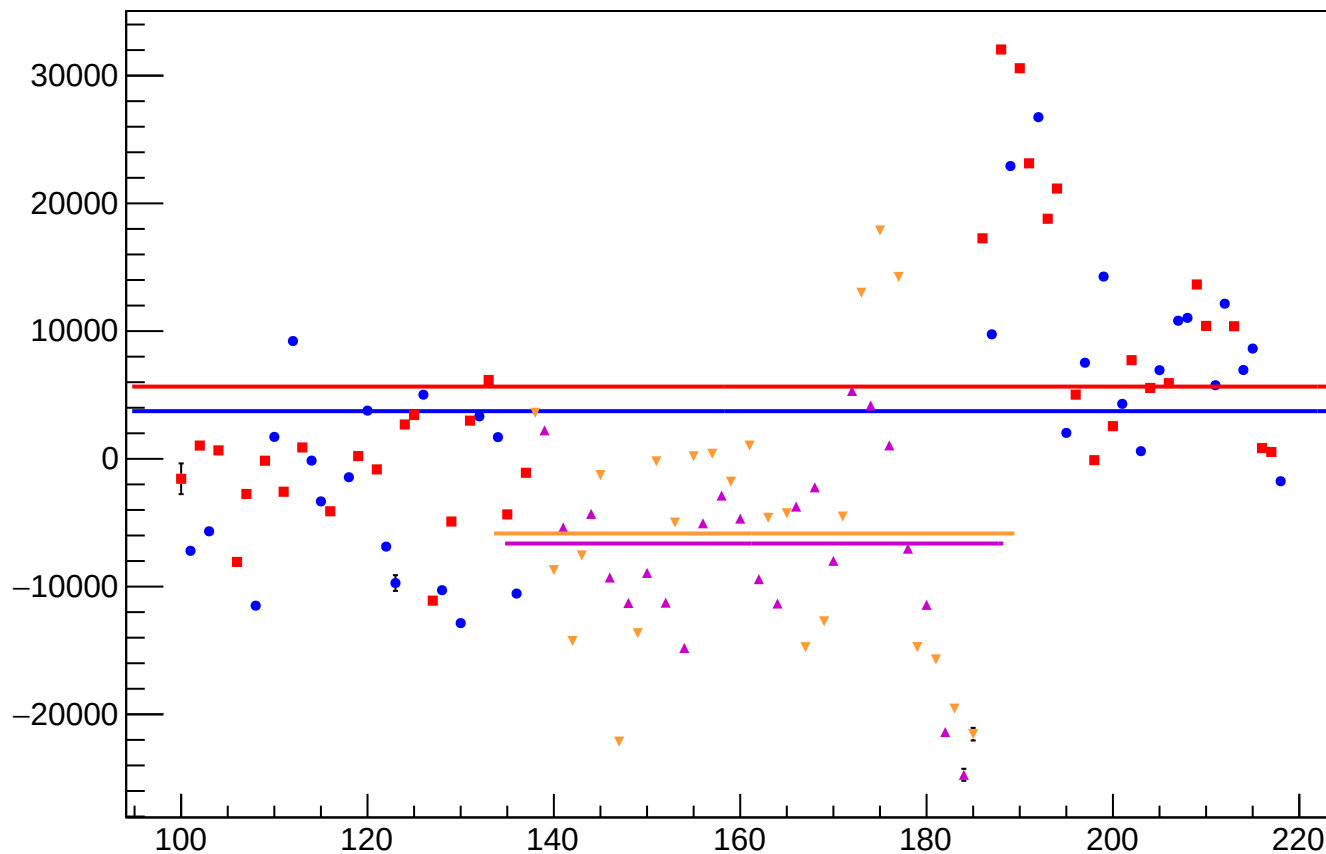
Right: 189.062 ± 0.023 χ^2/NDF : 3705017.7/68

In: 202.378 ± 0.025 χ^2/NDF : 3299066.1/55

Out: 208.550 ± 0.025 χ^2/NDF : 4128029.3/60

All: 205.425 ± 0.018 χ^2/NDF : 7457526.6/116

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3733.894 $\pm$ 33.368

χ^2/NDF : 85066.6/32

Left: -6220.862 $\pm$ 25.800

χ^2/NDF : 85367.5/47

Left Out: -5841.615 $\pm$ 35.848

χ^2/NDF : 63397.3/24

Right: 4732.617 $\pm$ 23.137

χ^2/NDF : 192460.4/68

Right Out: 5657.369 $\pm$ 32.109

χ^2/NDF : 105668.6/35

In: -891.718 $\pm$ 24.828

χ^2/NDF : 149853.4/55

Out: 538.648 $\pm$ 23.917

χ^2/NDF : 226158.0/60

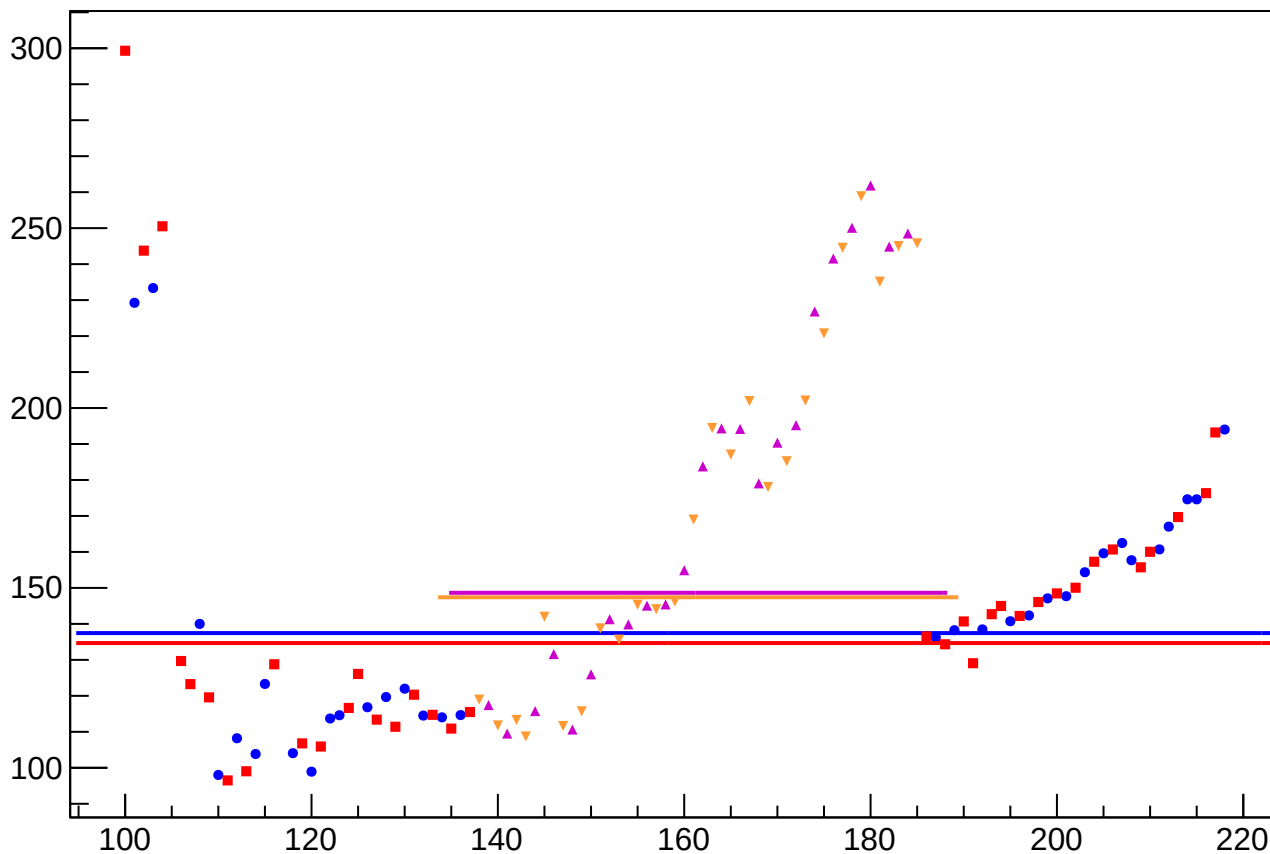
Left In: -6628.388 $\pm$ 37.160

χ^2/NDF : 21738.0/22

All: -149.833 $\pm$ 17.225

χ^2/NDF : 377732.9/11

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 137.445+/-0.024 χ^2/NDF : 1417862.5/32

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 134.678+/-0.023 χ^2/NDF : 1457677.6/35

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

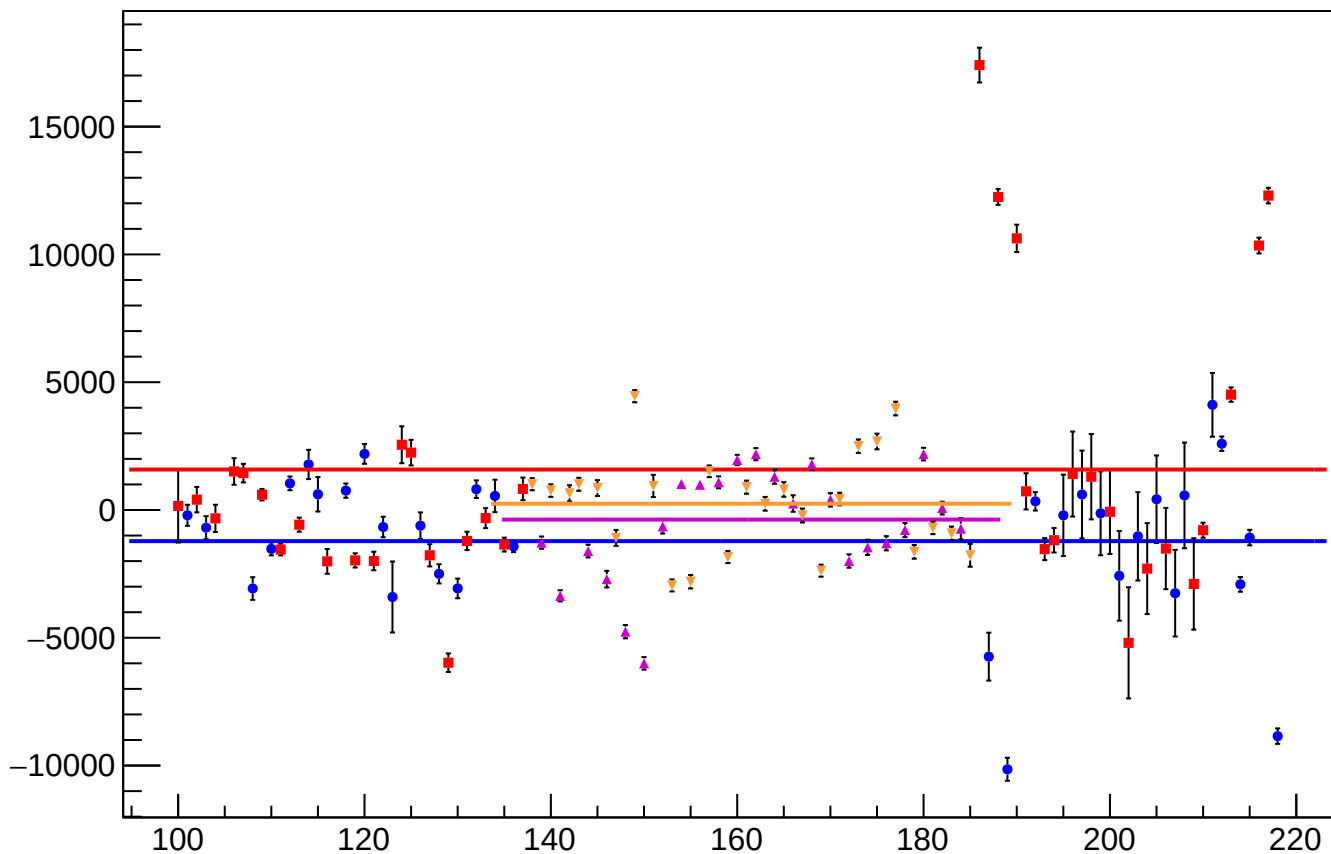
Right: 136.008+/-0.016 χ^2/NDF : 2882678.6/68

In: 142.443+/-0.018 χ^2/NDF : 3933925.0/55

Out: 140.340+/-0.017 χ^2/NDF : 4114448.2/60

All: 141.352+/-0.012 χ^2/NDF : 8055820.0/116

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -1219.016 $\pm$ 72.839 χ^2/NDF : 1654.5/32

Left Out: 246.120 $\pm$ 53.492 χ^2/NDF :1354.8/24

Right Out: 1582.746 $\pm$ 66.910 χ^2/NDF : 5652.1/35

Left In: -374.465 $\pm$ 51.892 χ^2/NDF :1798.3/22

Left: -73.589 $\pm$ 37.246 χ^2/NDF : 3222.4/47

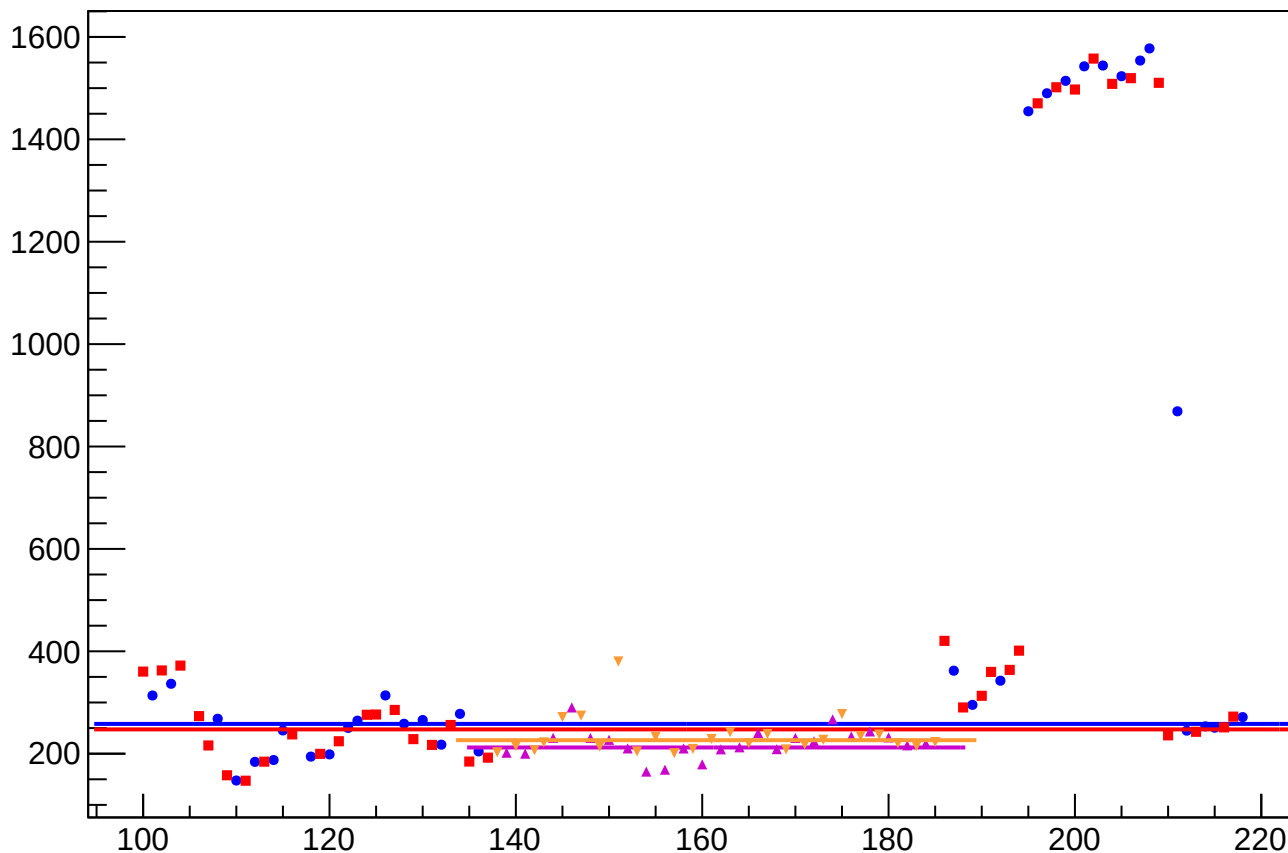
Right: 300.531 $\pm$ 49.275 χ^2/NDF : 8109.1/68

In: -658.800 $\pm$ 42.264 χ^2/NDF :3541.9/55

Out: 767.302 $\pm$ 41.781 χ^2/NDF :7250.4/60

All: 62.443 $\pm$ 29.713 χ^2/NDF : 11368.2/116

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 258.191 ± 0.052 $\chi^2/\text{NDF}: 10202132.3/32$

Left Out: 226.376 ± 0.038 $\chi^2/\text{NDF}: 521770.1/24$

Right Out: 247.466 ± 0.047 $\chi^2/\text{NDF}: 9287288.2/35$

Left In: 212.145 ± 0.037 $\chi^2/\text{NDF}: 591698.6/22$

Left: 219.044 ± 0.026 $\chi^2/\text{NDF}: 1186390.8/47$

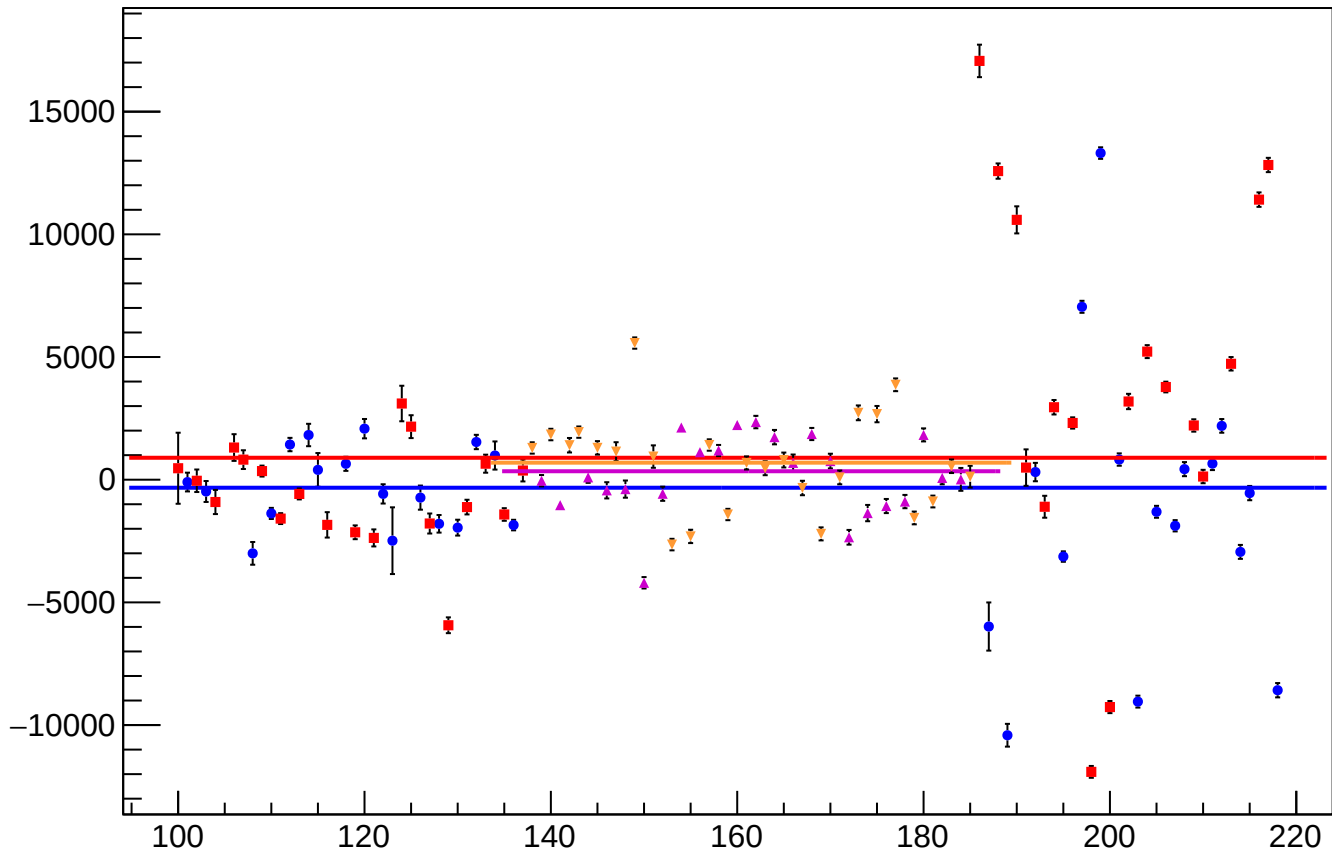
Right: 252.374 ± 0.035 $\chi^2/\text{NDF}: 19512935.5/68$

In: 227.647 ± 0.030 $\chi^2/\text{NDF}: 11323989.4/55$

Out: 234.599 ± 0.030 $\chi^2/\text{NDF}: 9930287.1/60$

All: 231.163 ± 0.021 $\chi^2/\text{NDF}: 21281645.2/111$

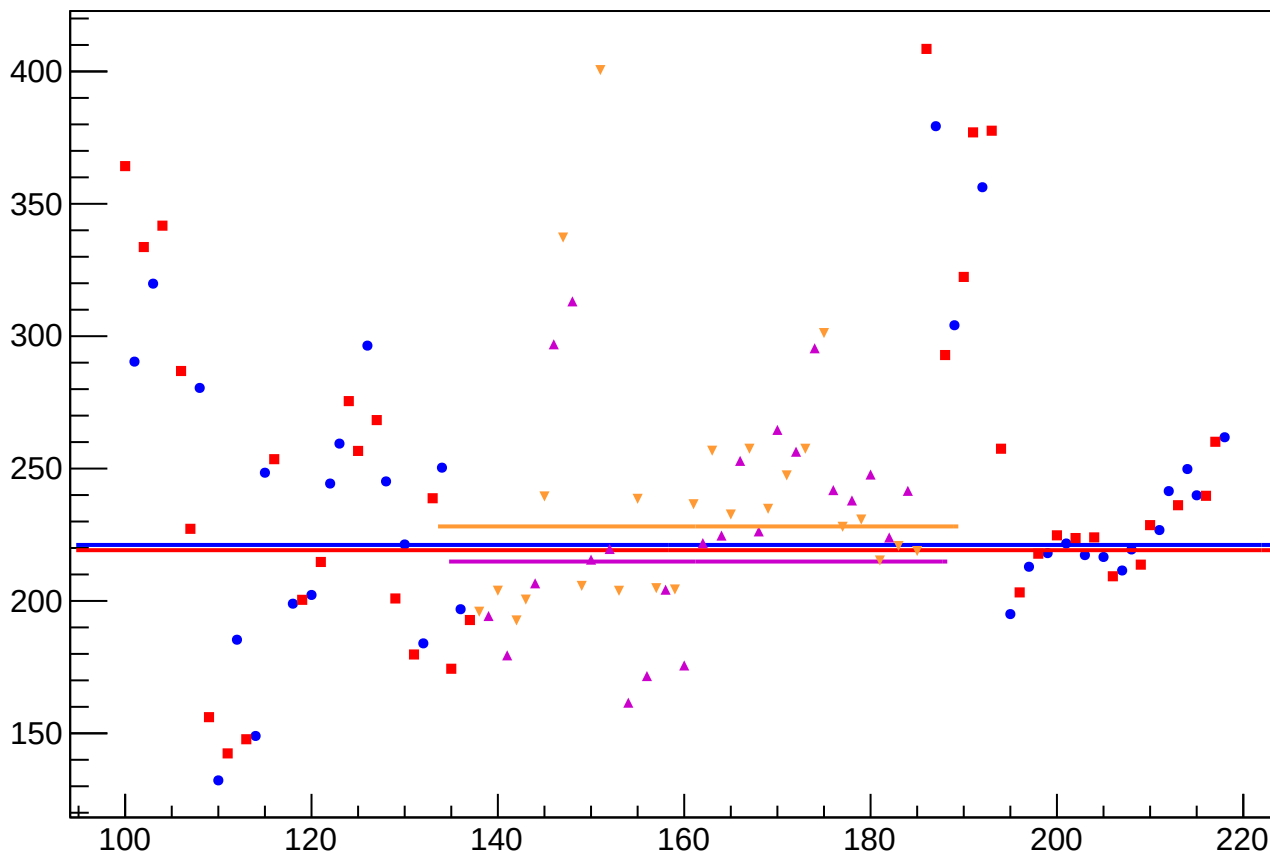
asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -327.285 ± 53.182 $\chi^2/\text{NDF}: 7609.7/32$
 Left Out: 694.326 ± 54.246 $\chi^2/\text{NDF}: 1422.1/24$
 Right Out: 894.210 ± 52.448 $\chi^2/\text{NDF}: 11658.0/35$
 Left In: 344.578 ± 52.954 $\chi^2/\text{NDF}: 985.0/22$

Left: 515.236 ± 37.893 $\chi^2/\text{NDF}: 2428.4/47$
 Right: 291.948 ± 37.343 $\chi^2/\text{NDF}: 19535.1/68$
 In: 10.087 ± 37.524 $\chi^2/\text{NDF}: 8674.8/55$
 Out: 797.637 ± 37.706 $\chi^2/\text{NDF}: 13087.1/60$
 All: 401.960 ± 26.598 $\chi^2/\text{NDF}: 21981.1/116$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 221.153+/-0.038 χ^2/NDF : 1237289.1/32

Left Out: 228.144+/-0.038 χ^2/NDF : 828399.3/24

Right Out: 219.173+/-0.037 χ^2/NDF : 1888186.0/35

Left In: 214.878+/-0.037 χ^2/NDF : 1037509.6/22

Left: 221.351+/-0.027 χ^2/NDF : 1927151.4/47

Right: 220.149+/-0.026 χ^2/NDF : 3126881.3/68

In: 218.002+/-0.027 χ^2/NDF : 2288781.5/55

Out: 223.507+/-0.027 χ^2/NDF : 2744855.1/60

All: 220.741+/-0.019 χ^2/NDF : 5055053.1/116

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_an_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

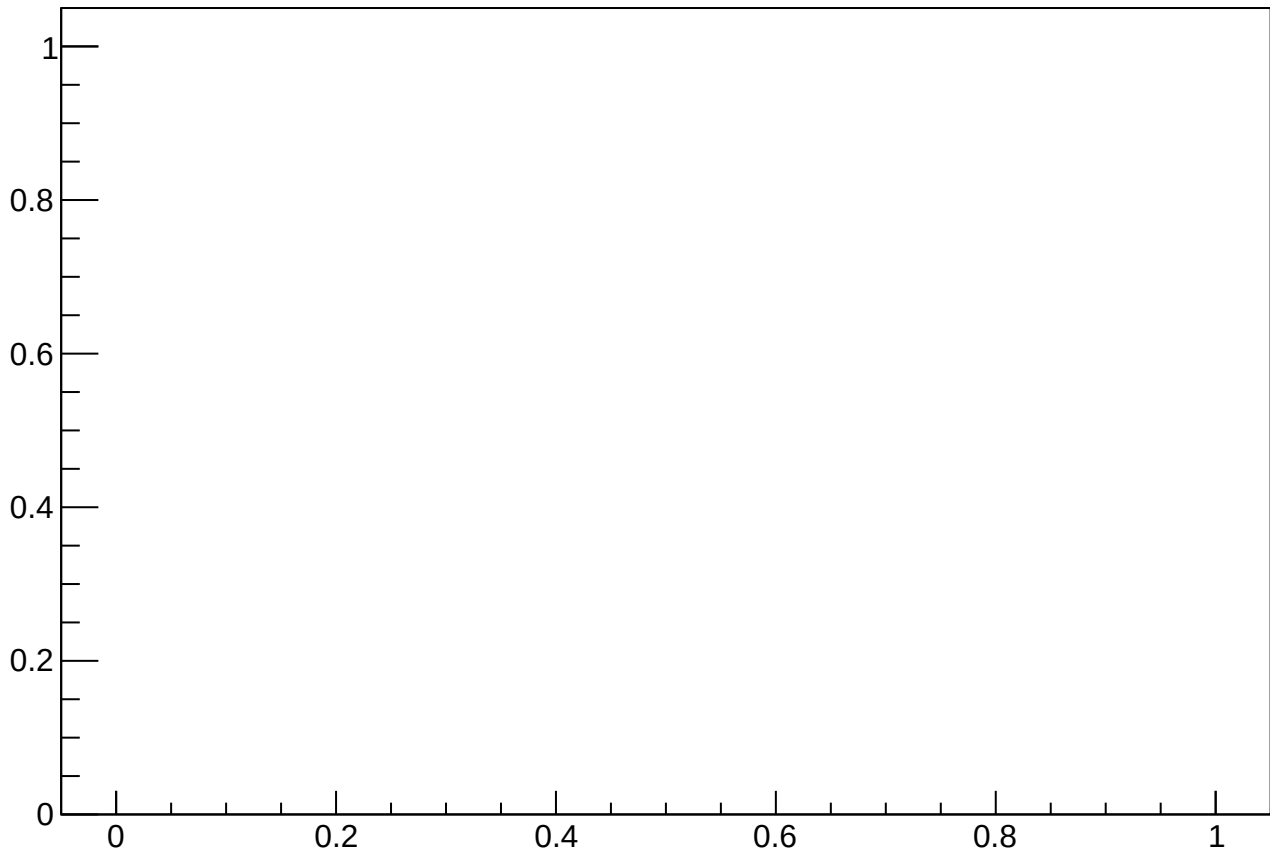
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

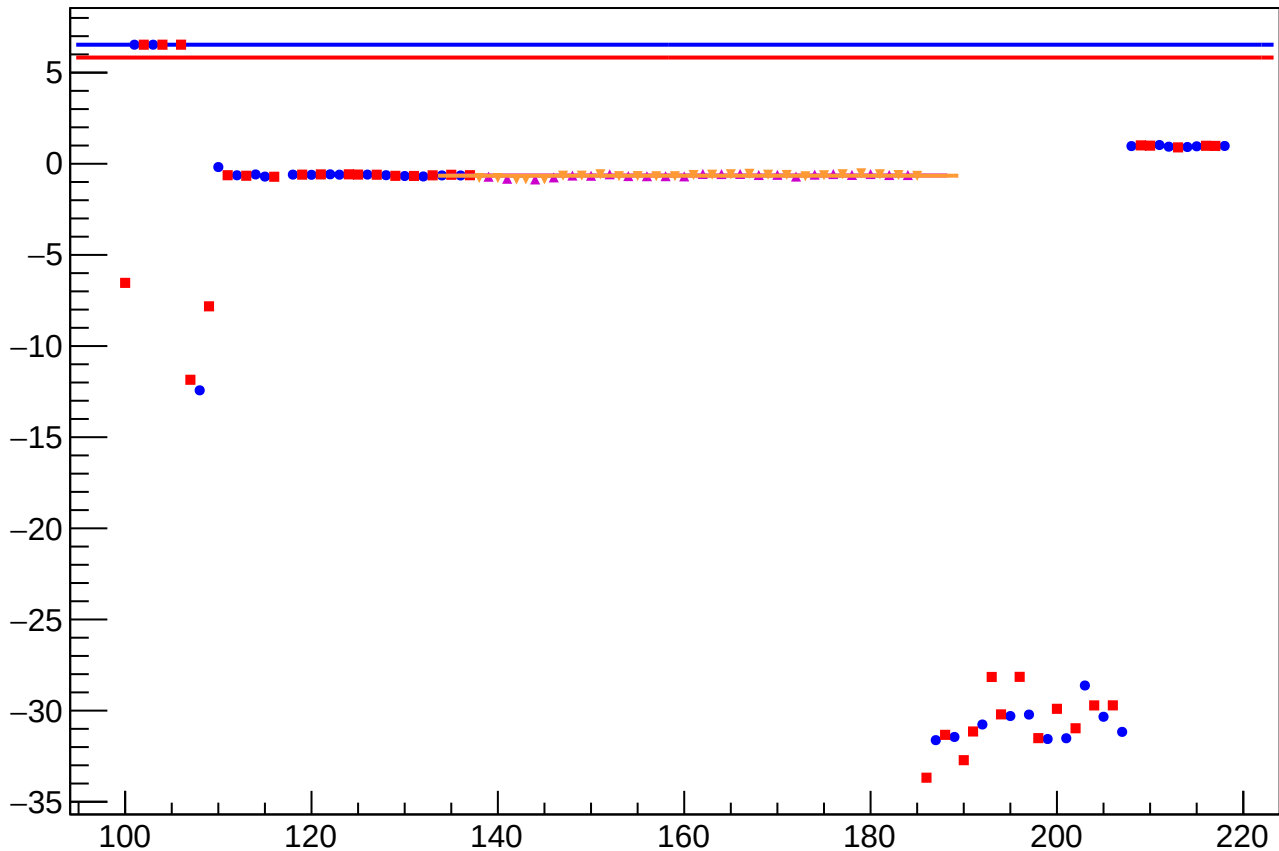
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 138717637246.6/32

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755968872698746.2/35

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

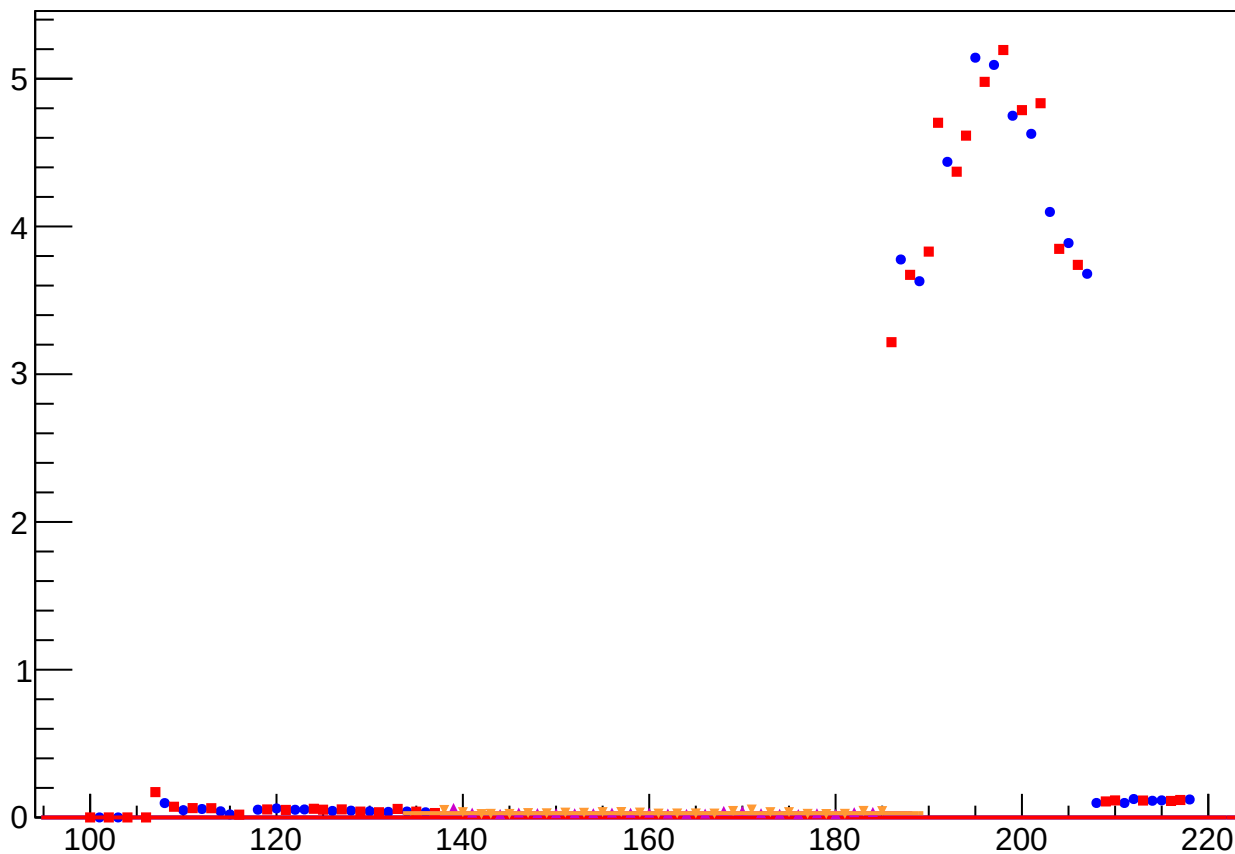
Right: 6.155+/-0.000 χ^2/NDF : 776111059351349.8/46

In: 6.530+/-0.000 χ^2/NDF : 972830331452.3/55

Out: 5.826+/-0.000 χ^2/NDF : 756679886241094.5/60

All: 6.153+/-0.000 χ^2/NDF : 77764448235215.0/100

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31217438.5/32

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31916350.7/35

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

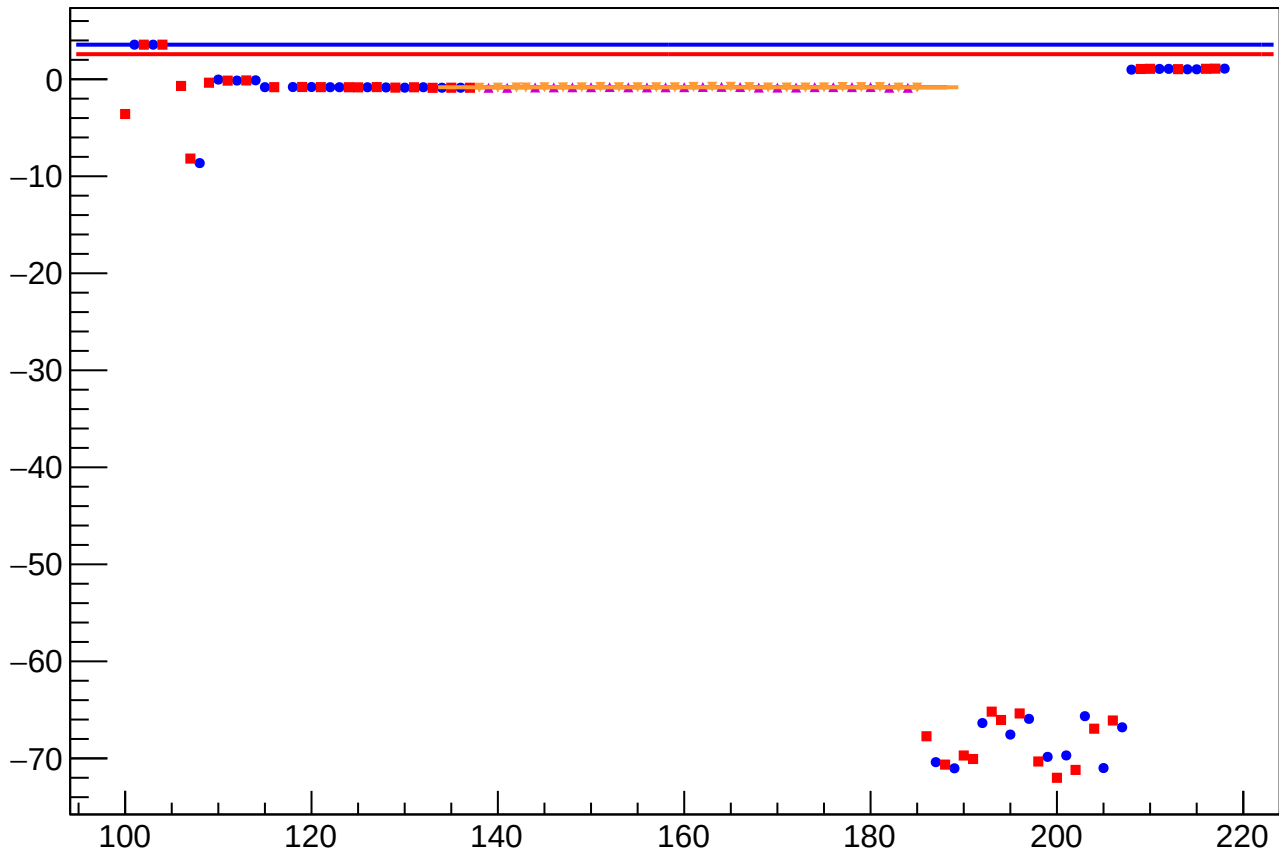
Right: 0.000+/-0.000 χ^2/NDF : 63134080.7/68

In: 0.000+/-0.000 χ^2/NDF :59394285.8/55

Out: 0.000+/-0.000 χ^2/NDF :61883676.8/60

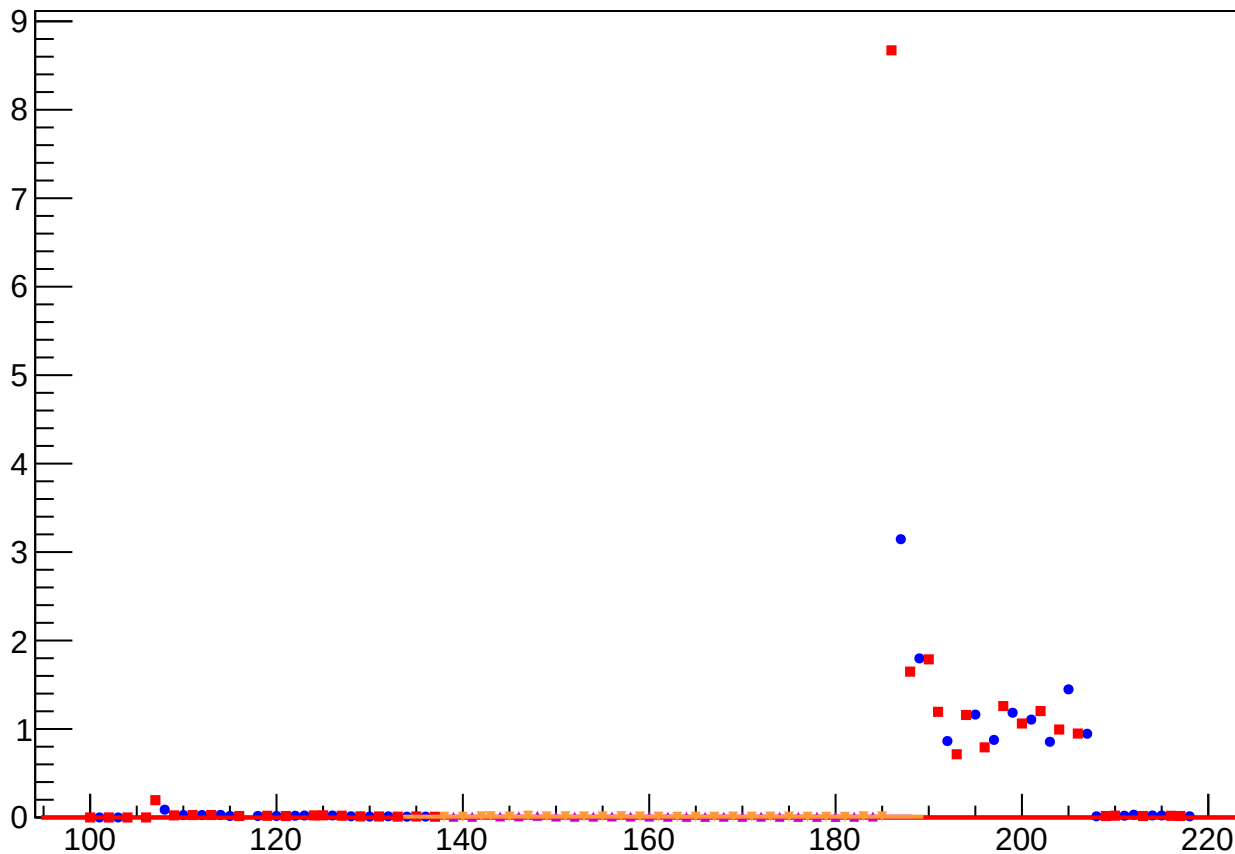
All: 0.000+/-0.000 χ^2/NDF : 121278445.1/116

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 581903884366.8/32	Left: -0.827+/-0.000	χ^2/NDF : 344237775.5/47
Left Out: -0.827+/-0.000	χ^2/NDF : 170052639.9/24	Right: 3.040+/-0.000	χ^2/NDF : 1382397986192662.8
Right Out: 2.583+/-0.000	χ^2/NDF : 1253555643634191.2/35	In: 3.560+/-0.000	χ^2/NDF : 4262262971617.4/55
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255786468275743.8
		All: 3.038+/-0.000	χ^2/NDF : 13881222957804

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 28445311.6/32

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29536537.1/35

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

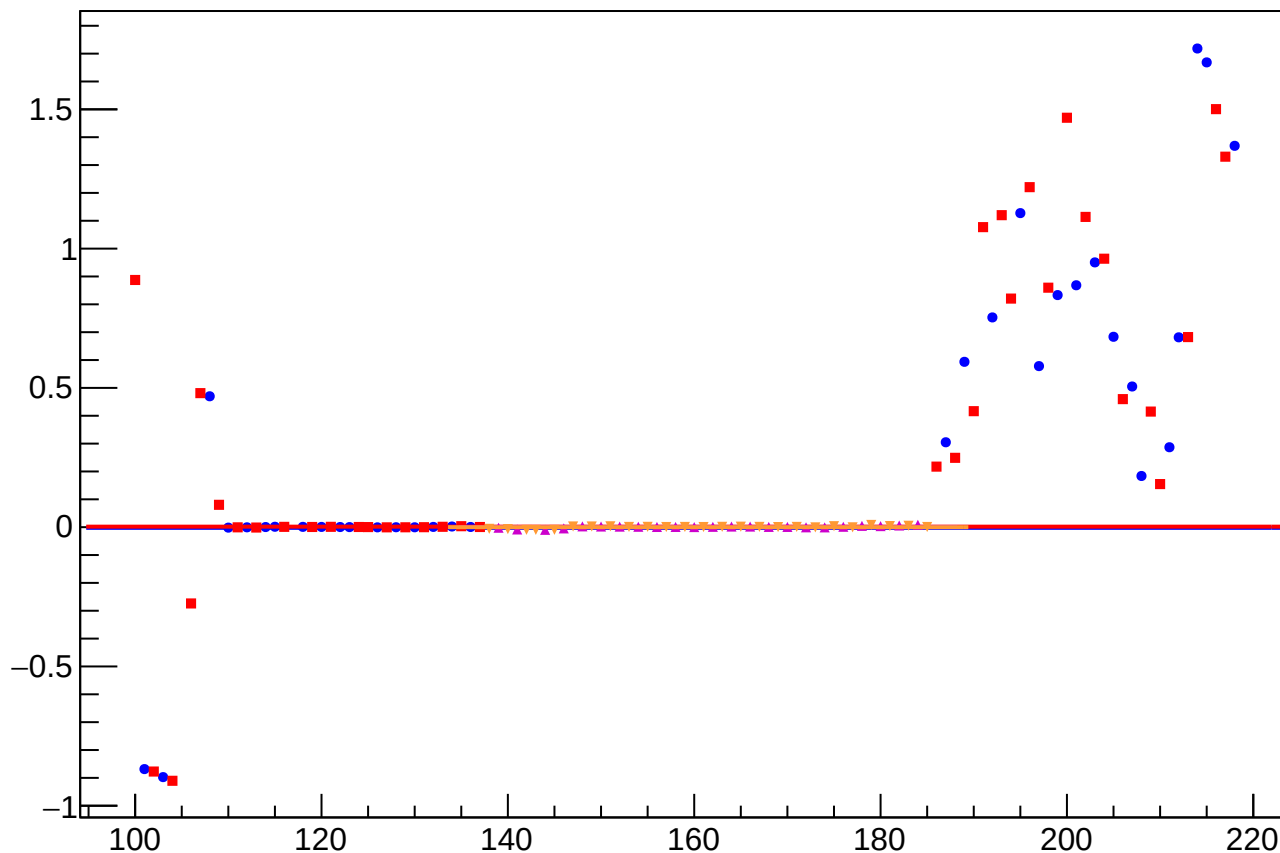
Right: 0.000+/-0.000 χ^2/NDF : 57982201.7/68

In: 0.000+/-0.000 χ^2/NDF :58237169.4/55

Out: 0.000+/-0.000 χ^2/NDF :61050189.5/60

All: 0.000+/-0.000 χ^2/NDF : 119288267.0/116

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000

χ^2/NDF : 9797444120.5/32

Left: 0.000 ± 0.000 χ^2/NDF : 254489625.0/47

Left Out: -0.000 ± 0.000

χ^2/NDF : 151559332.0/24

Right: -0.000 ± 0.000 χ^2/NDF : 12855809355.7/68

Right Out: 0.002 ± 0.000

χ^2/NDF : 3044218268.8/35

In: -0.000 ± 0.000 χ^2/NDF : 9910347745.8/55

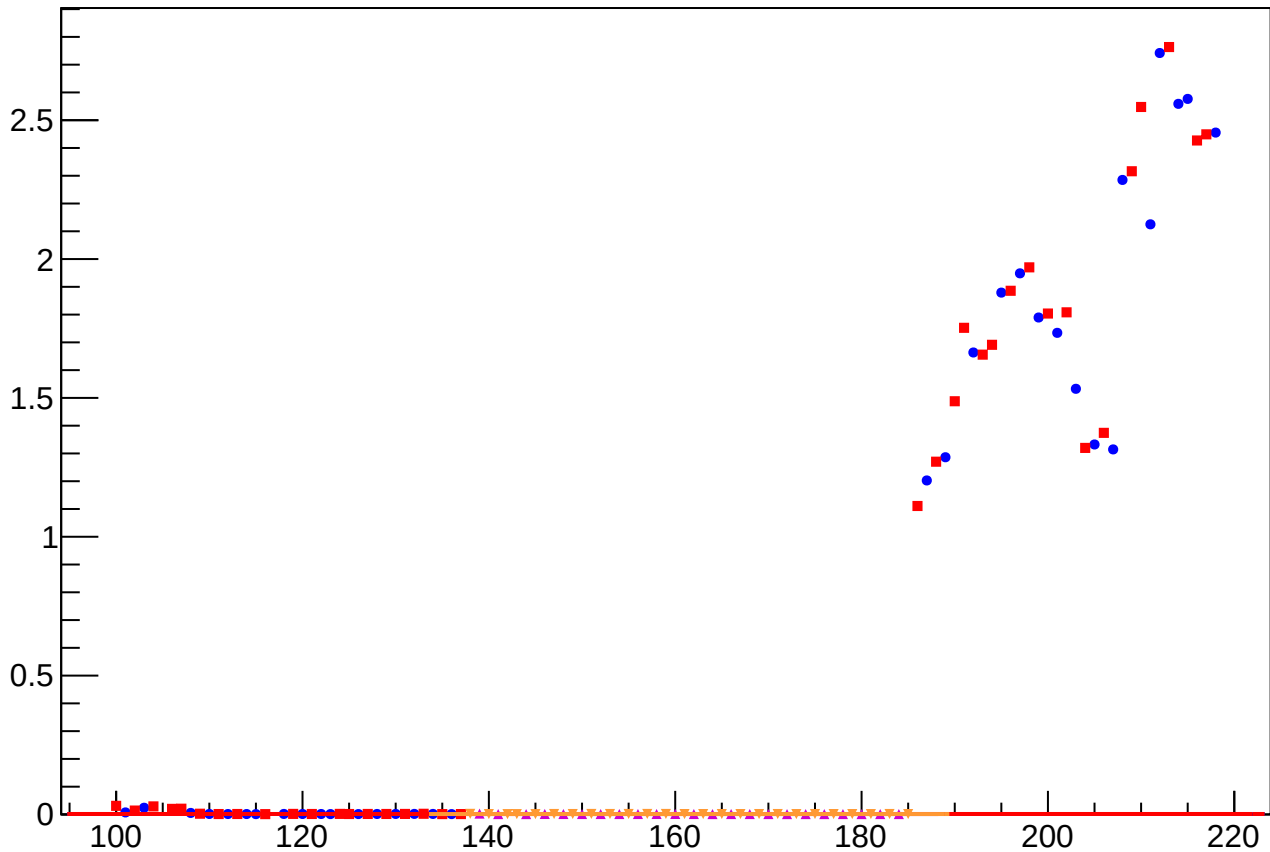
Out: 0.000 ± 0.000 χ^2/NDF : 3200457824.7/60

Left In: 0.001 ± 0.000

χ^2/NDF : 101468517.6/22

All: 0.000 ± 0.000 χ^2/NDF : 13111177000.4/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 24261477.6/32

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 25588681.5/35

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

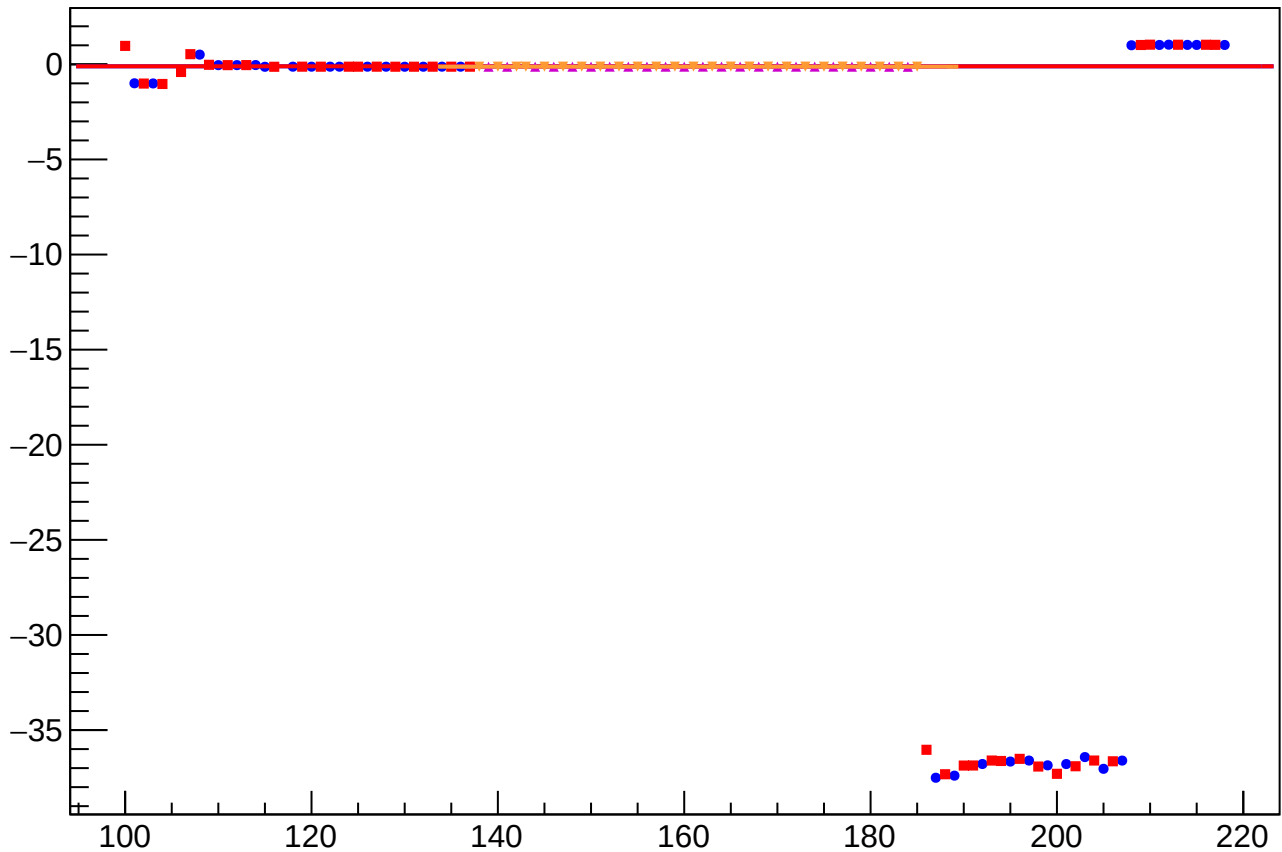
Right: 0.002+/-0.000 χ^2/NDF : 49858104.3/68

In: 0.002+/-0.000 χ^2/NDF :24974732.8/55

Out: 0.002+/-0.000 χ^2/NDF :26265500.4/60

All: 0.002+/-0.000 χ^2/NDF : 51240871.2/116

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.104+/-0.000 χ^2/NDF : 101942570413.8/32

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.102+/-0.000 χ^2/NDF : 98579699567.9/35

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

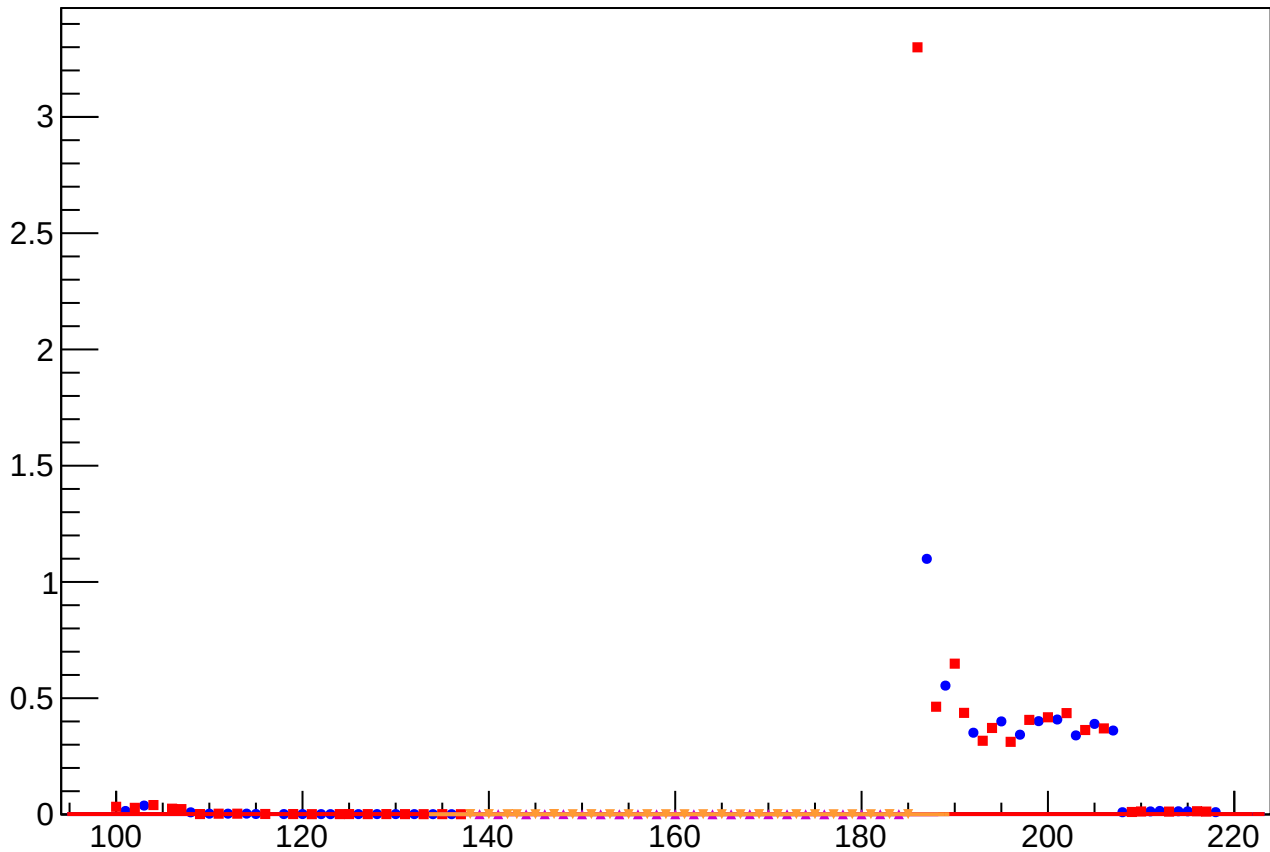
Right: -0.103+/-0.000 χ^2/NDF : 200525283766.4/68

In: -0.119+/-0.000 χ^2/NDF : 102476414193.1/55

Out: -0.119+/-0.000 χ^2/NDF : 99242573871.5/60

All: -0.119+/-0.000 χ^2/NDF : 201719037599.6

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 22300223.4/32

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 23779297.8/35

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

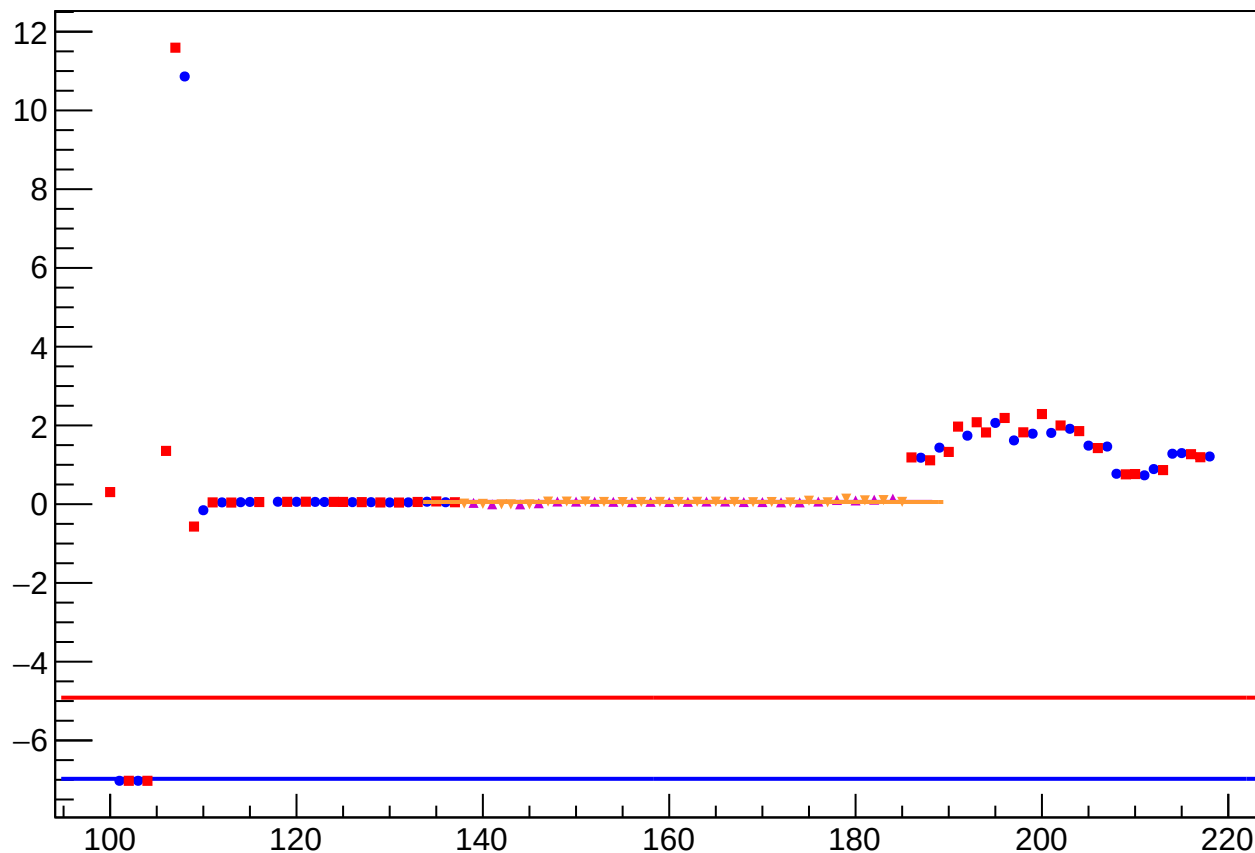
Right: 0.002+/-0.000 χ^2/NDF : 46081020.8/68

In: 0.001+/-0.000 χ^2/NDF :25135631.4/55

Out: 0.001+/-0.000 χ^2/NDF :26921475.0/60

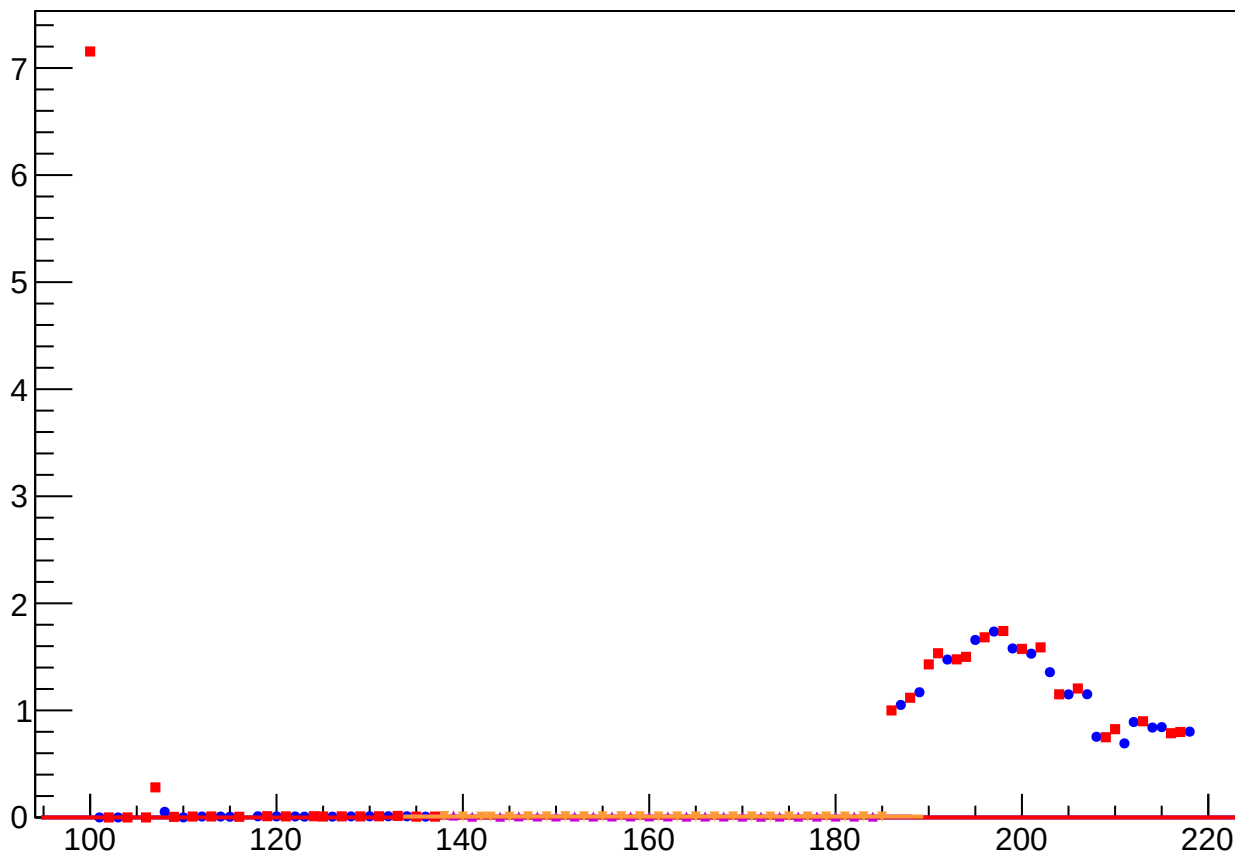
All: 0.001+/-0.000 χ^2/NDF : 52060777.2/116

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8763147945404.3/32$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348903601656.3/35$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$
 Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423872259.5/47$
 Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430304215367150.6$
 In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605668488409.5/55$
 Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175587633014.5$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435821709911$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 30591140.9/32

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31354075.2/35

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

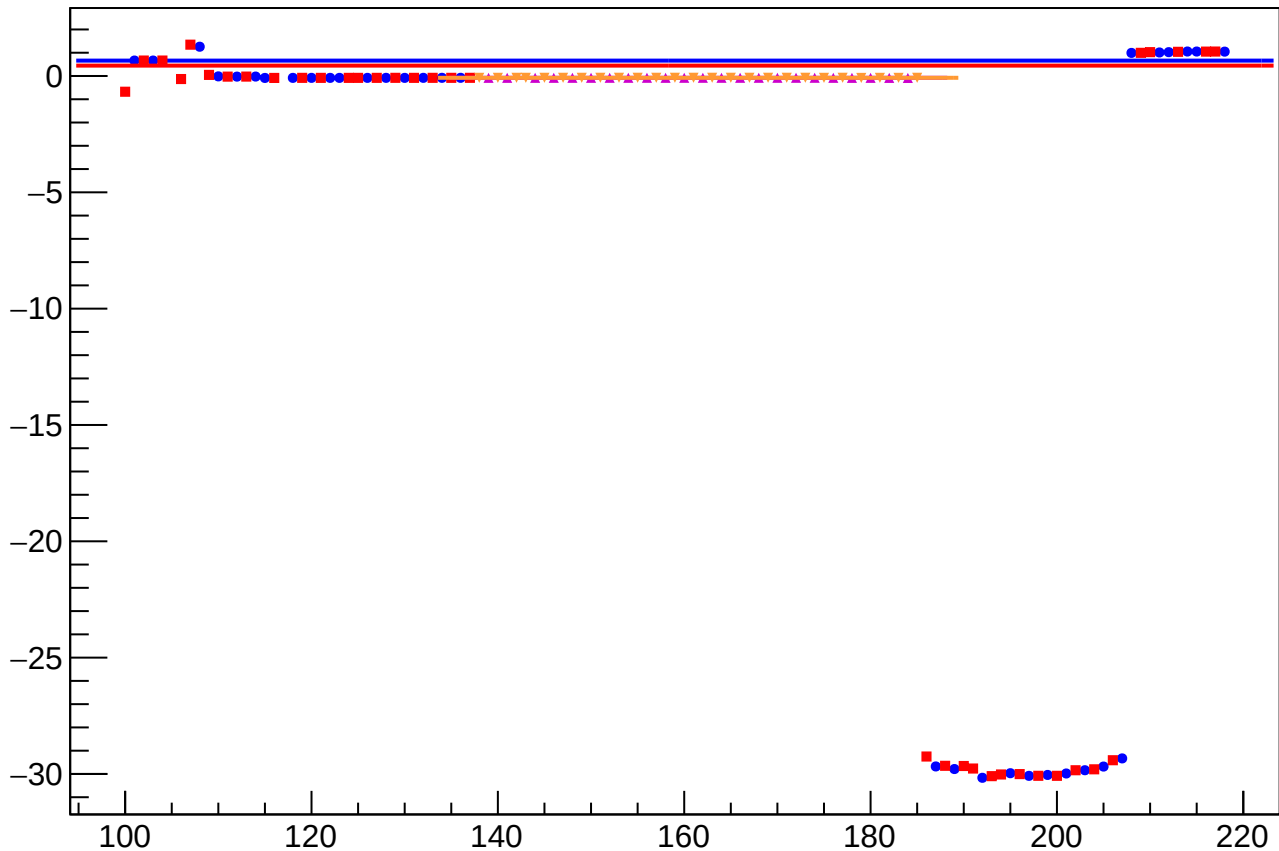
Right: 0.000+/-0.000 χ^2/NDF : 61945532.4/68

In: 0.000+/-0.000 χ^2/NDF : 58226256.4/55

Out: 0.000+/-0.000 χ^2/NDF : 60380779.6/60

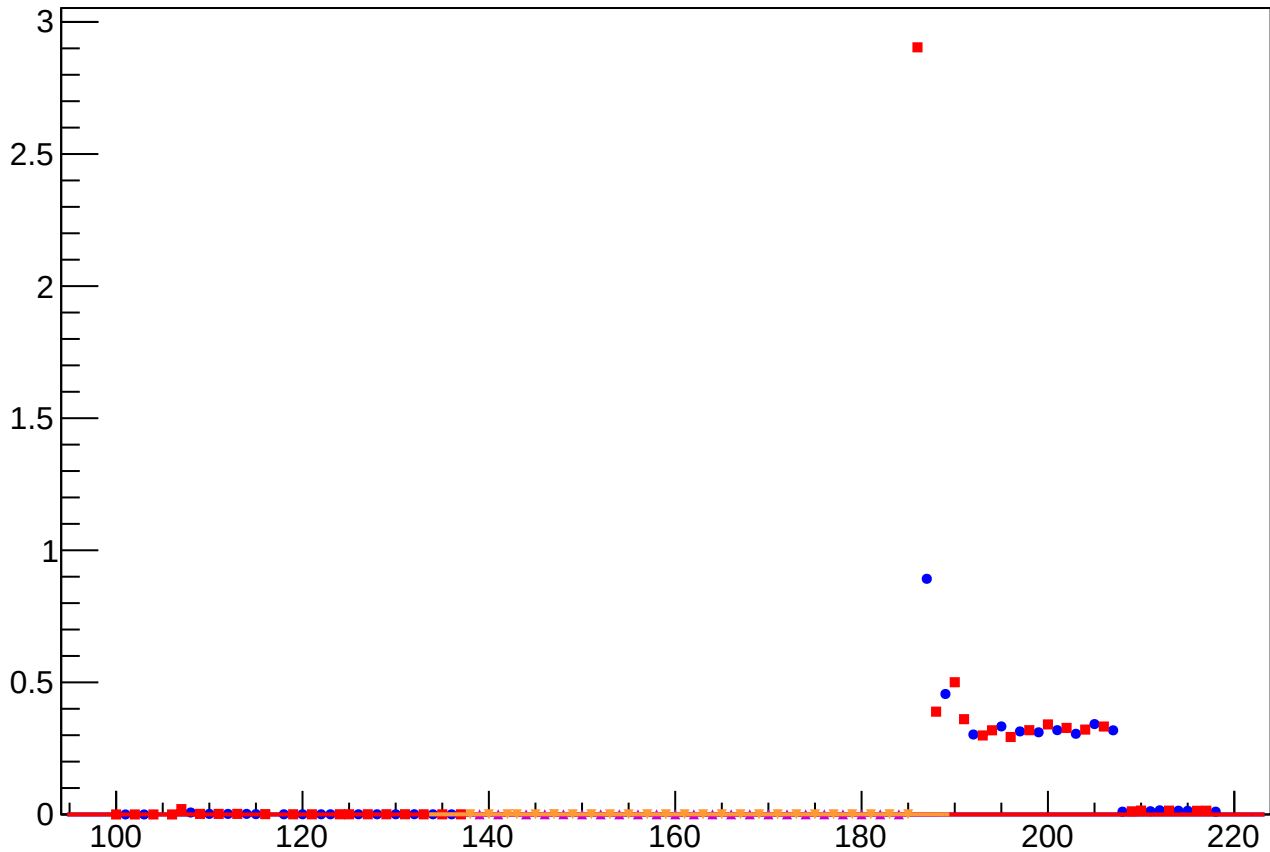
All: 0.000+/-0.000 χ^2/NDF : 118607538.3/116

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5649334062454.2/32	Left: -0.078+/-0.000	χ^2/NDF : 267788024.6/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156525648.0/24	Right: 0.549+/-0.000	χ^2/NDF : 474064199027563.8
Right Out: 0.446+/-0.000	χ^2/NDF : 405485244489401.0/35	In: 0.647+/-0.000	χ^2/NDF : 33909555845471.0/55
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420680035963237.9/6
		All: 0.537+/-0.000	χ^2/NDF : 51611469838537

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31809977.4/32

Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31883858.8/35

Left In: 0.001+/-0.000 χ^2/NDF :355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

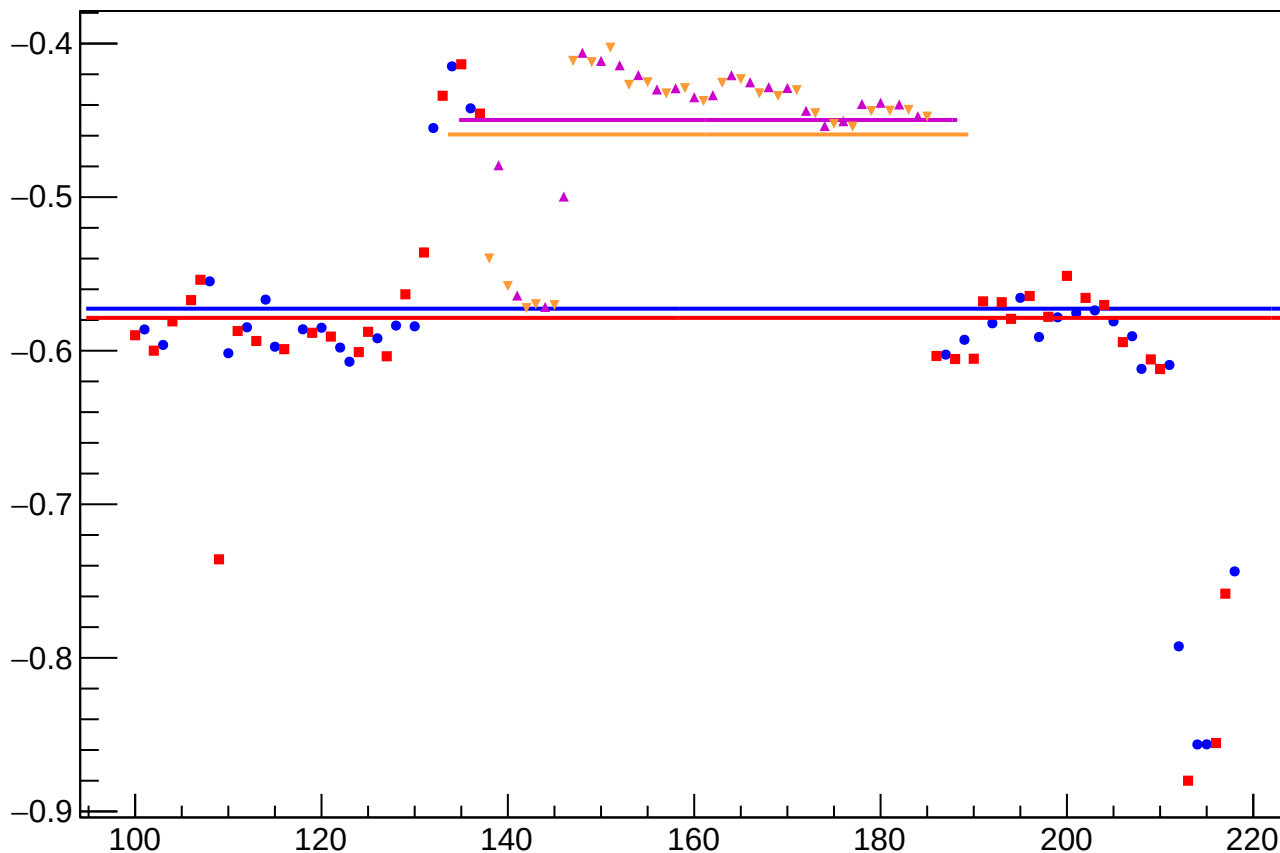
Right: 0.000+/-0.000 χ^2/NDF : 63693855.2/68

In: 0.000+/-0.000 χ^2/NDF :62774078.5/55

Out: 0.000+/-0.000 χ^2/NDF :64586779.2/60

All: 0.000+/-0.000 χ^2/NDF : 127361332.3/116

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.573+/-0.000 χ^2/NDF : 114533730.0/32

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.579+/-0.000 χ^2/NDF : 119587299.5/35

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

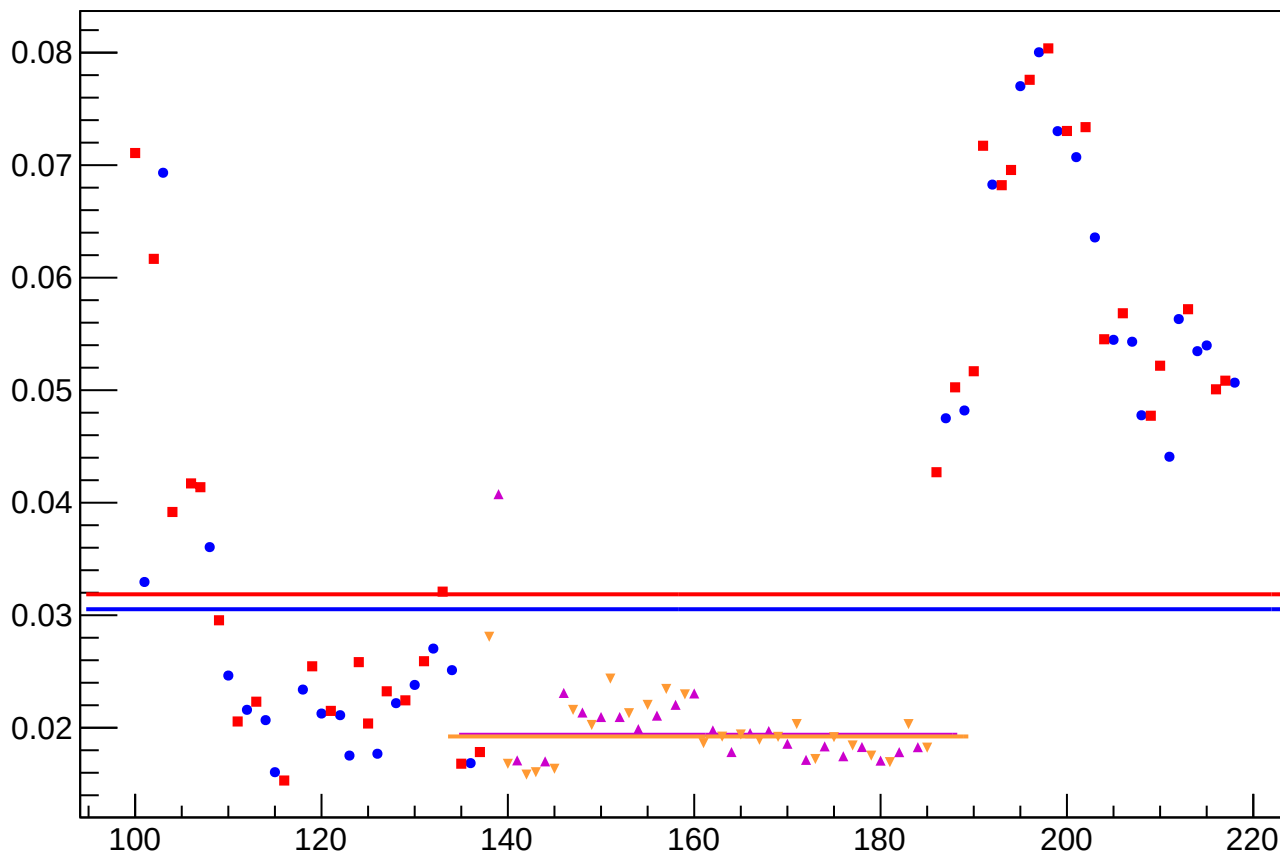
Right: -0.576+/-0.000 χ^2/NDF : 234361746.3/68

In: -0.483+/-0.000 χ^2/NDF : 342562661.0/55

Out: -0.489+/-0.000 χ^2/NDF : 375079250.4/60

All: -0.486+/-0.000 χ^2/NDF : 718545406.1/111

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 7766562.9/32

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.032+/-0.000 χ^2/NDF : 7597554.7/35

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

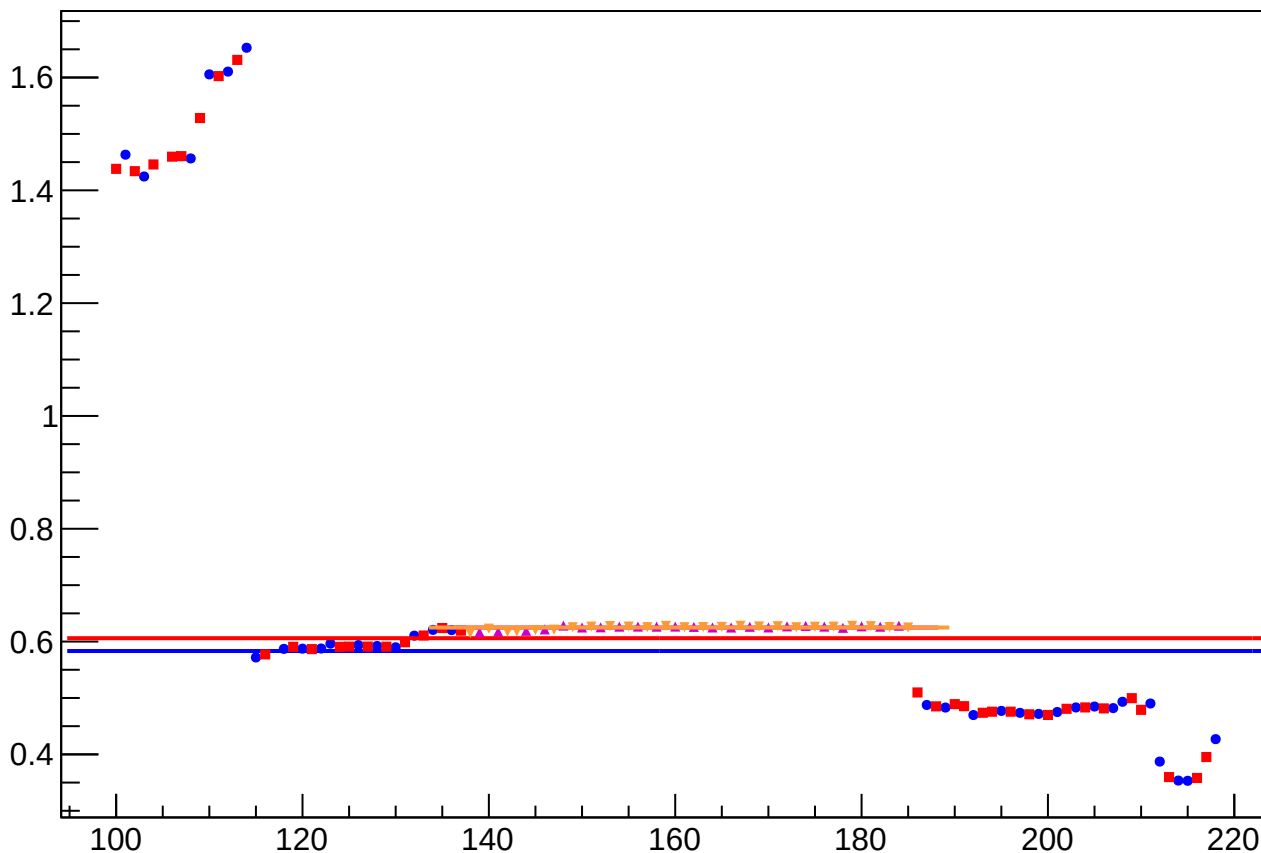
Right: 0.031+/-0.000 χ^2/NDF : 15387799.0/68

In: 0.022+/-0.000 χ^2/NDF : 10926394.9/55

Out: 0.022+/-0.000 χ^2/NDF : 11270167.9/60

All: 0.022+/-0.000 χ^2/NDF : 22196618.1/116

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.583 $\pm$ 0.000 χ^2 /NDF: 5587932763.3/32

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.606 $\pm$ 0.000 χ^2 /NDF: 6584330350.0/35

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1135039.4/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2577573.3/47

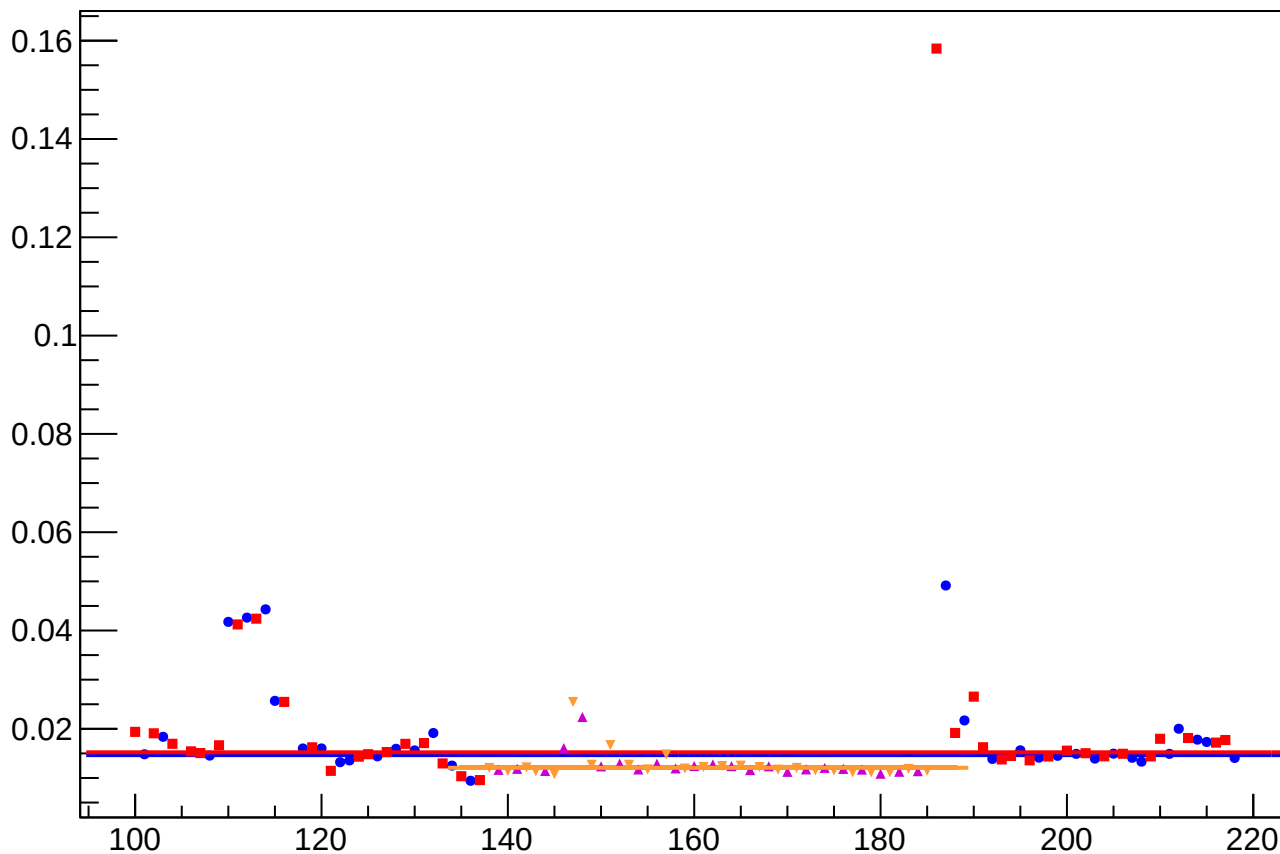
Right: 0.594 $\pm$ 0.000 χ^2 /NDF: 12191407845.0/68

In: 0.608 $\pm$ 0.000 χ^2 /NDF:5668093012.1/55

Out: 0.618 $\pm$ 0.000 χ^2 /NDF:6601970598.2/60

All: 0.613 $\pm$ 0.000 χ^2 /NDF: 12279016931.1/122

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1851566.3/32

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2208806.4/35

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

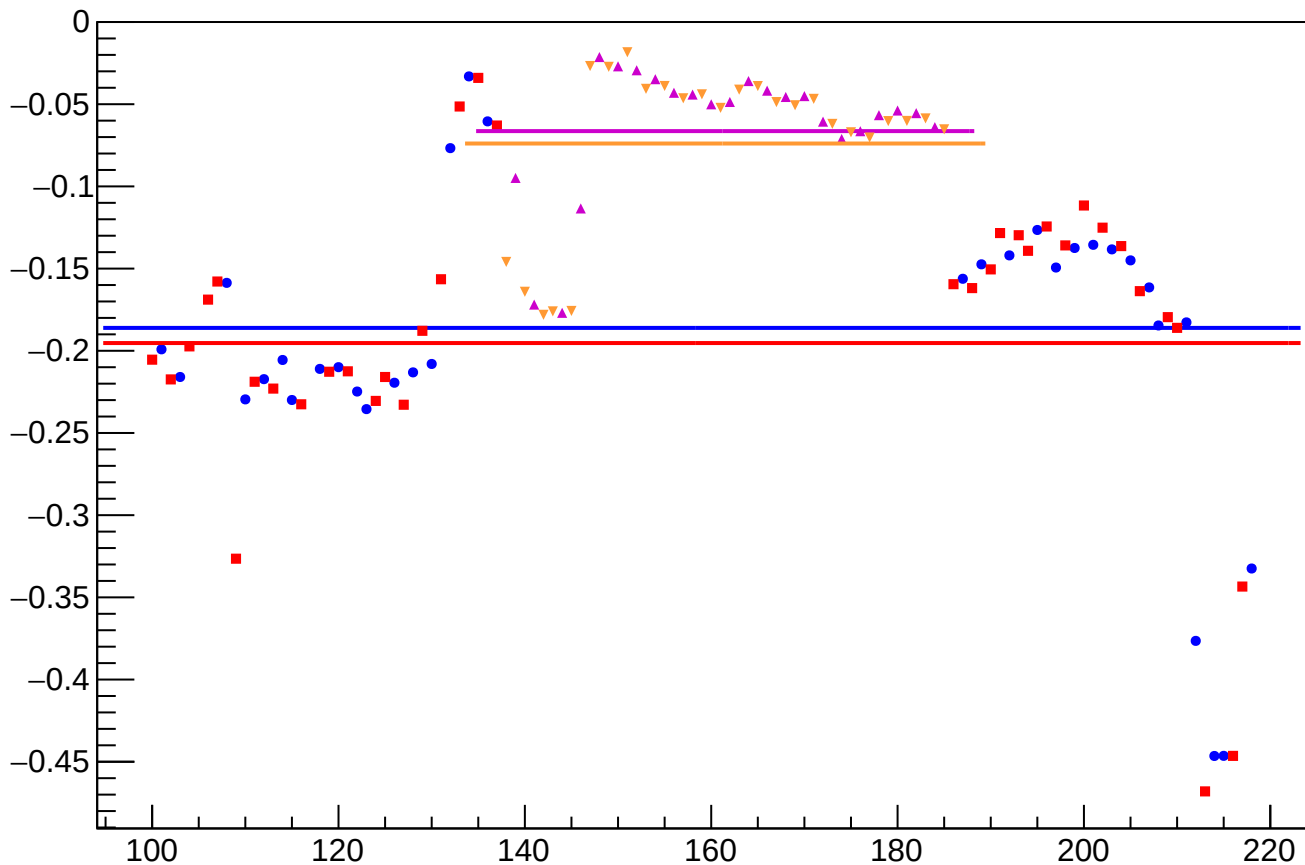
Right: 0.015+/-0.000 χ^2/NDF : 4084208.8/68

In: 0.013+/-0.000 χ^2/NDF : 2919570.9/55

Out: 0.013+/-0.000 χ^2/NDF : 3762728.1/60

All: 0.013+/-0.000 χ^2/NDF : 6684346.5/116

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.186 ± 0.000 $\chi^2/\text{NDF}: 127789775.4/32$

Left Out: -0.074 ± 0.000 $\chi^2/\text{NDF}: 107858881.3/24$

Right Out: -0.195 ± 0.000 $\chi^2/\text{NDF}: 134102420.4/35$

Left In: -0.066 ± 0.000 $\chi^2/\text{NDF}: 76283954.4/22$

Left: -0.070 ± 0.000 $\chi^2/\text{NDF}: 185261776.8/47$

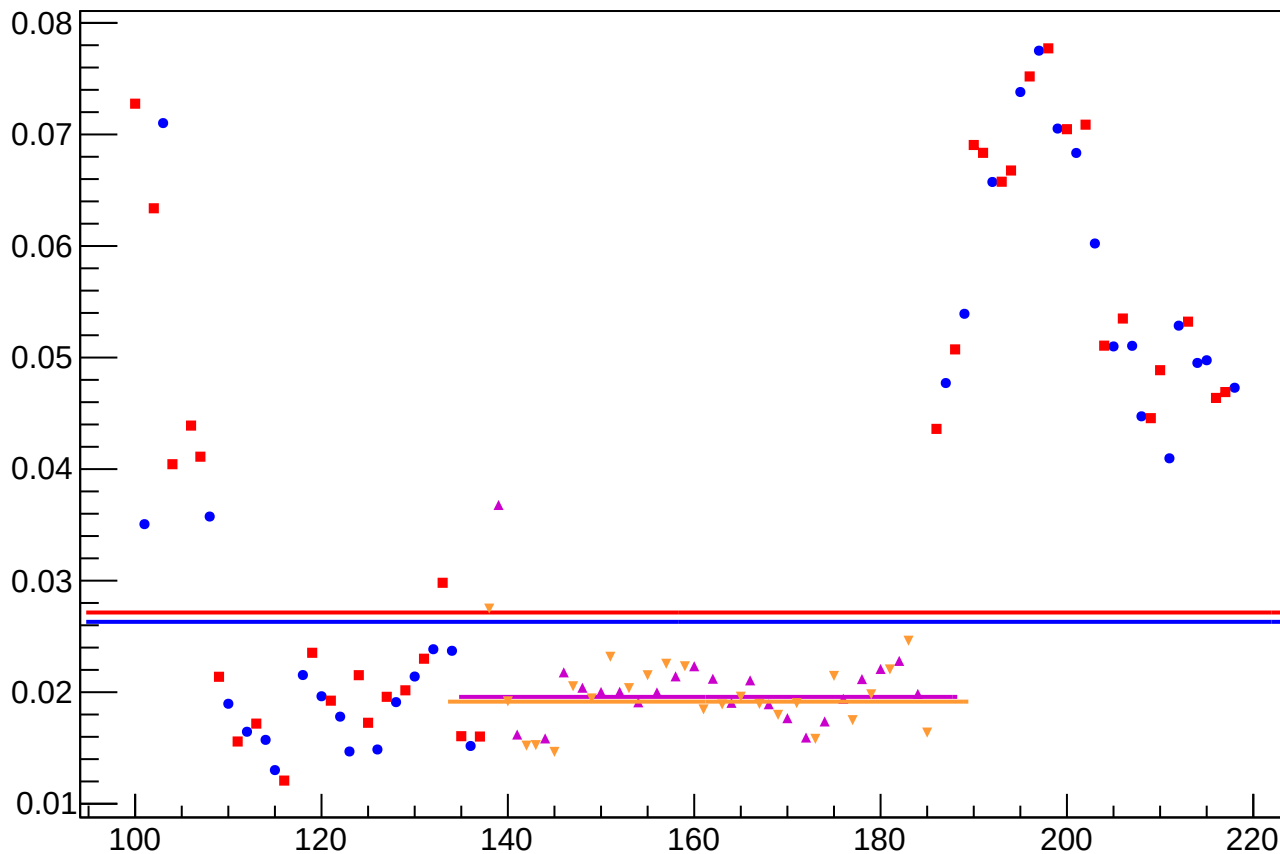
Right: -0.191 ± 0.000 $\chi^2/\text{NDF}: 262627107.2/68$

In: -0.105 ± 0.000 $\chi^2/\text{NDF}: 375494875.0/55$

Out: -0.109 ± 0.000 $\chi^2/\text{NDF}: 419520773.7/60$

All: -0.107 ± 0.000 $\chi^2/\text{NDF}: 795671740.3/111$

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2 /NDF: 9116692.9/32

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:641027.3/24

Right Out: 0.027 $\pm$ 0.000 χ^2 /NDF: 9292400.1/35

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF:651328.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1299461.3/47

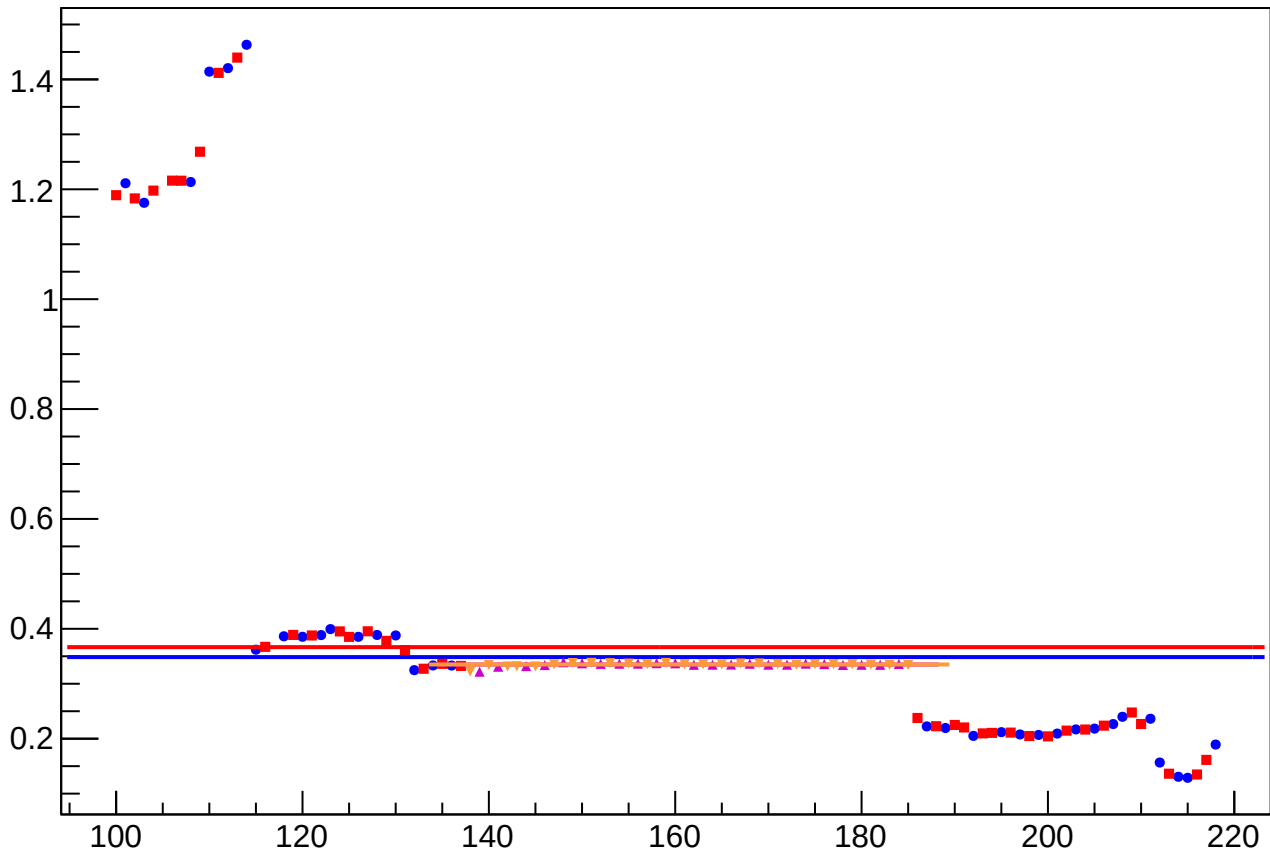
Right: 0.027 $\pm$ 0.000 χ^2 /NDF: 18421213.1/68

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10850719.5/55

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:11472166.7/60

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 22326077.7/116

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.349+/-0.000 χ^2/NDF : 8047252603.5/32

Left Out: 0.335+/-0.000 χ^2/NDF : 1153956.7/24

Right Out: 0.367+/-0.000 χ^2/NDF : 9074851395.5/35

Left In: 0.335+/-0.000 χ^2/NDF : 1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

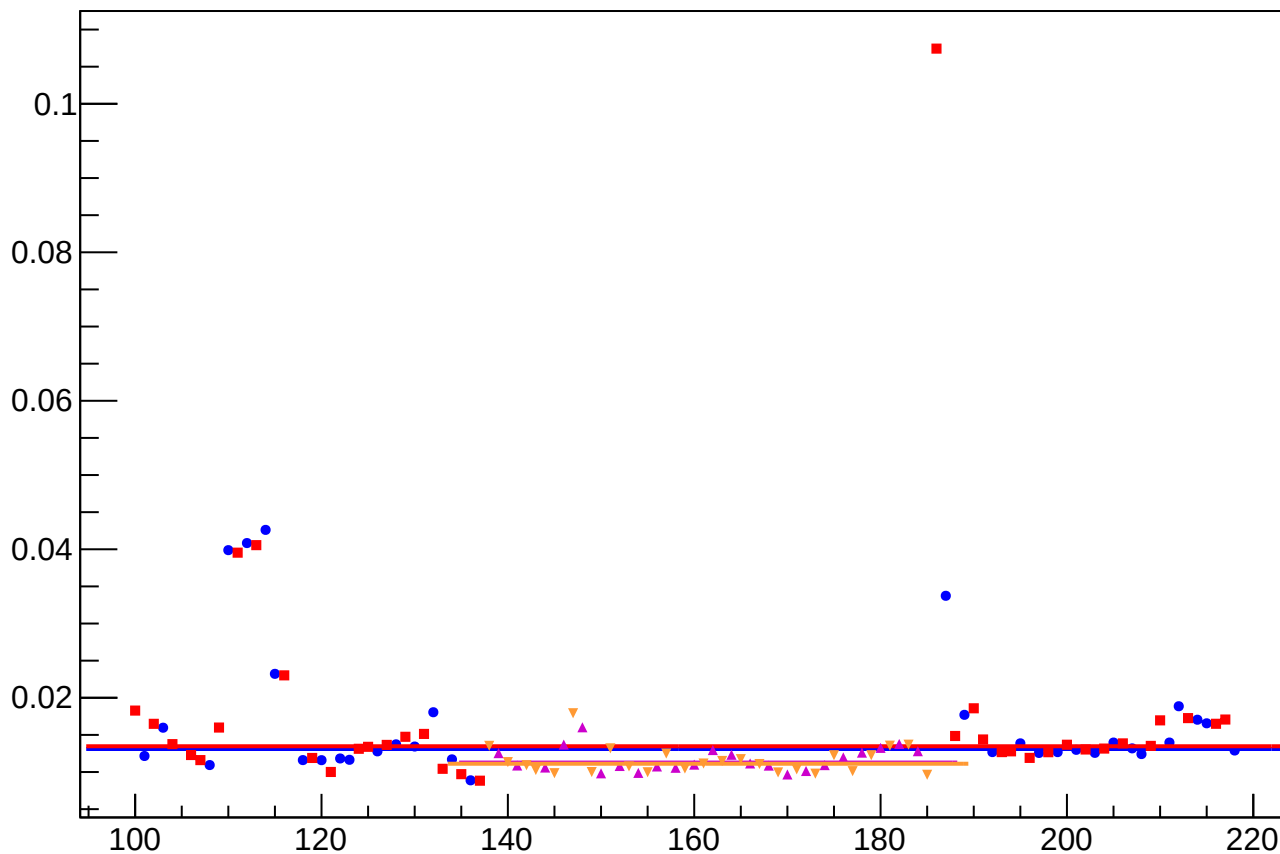
Right: 0.357+/-0.000 χ^2/NDF : 17137434943.3/68

In: 0.341+/-0.000 χ^2/NDF : 8058515846.0/55

Out: 0.347+/-0.000 χ^2/NDF : 9131382268.7/60

All: 0.344+/-0.000 χ^2/NDF : 17195181638.4/130

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1829523.8/32

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2209776.6/35

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

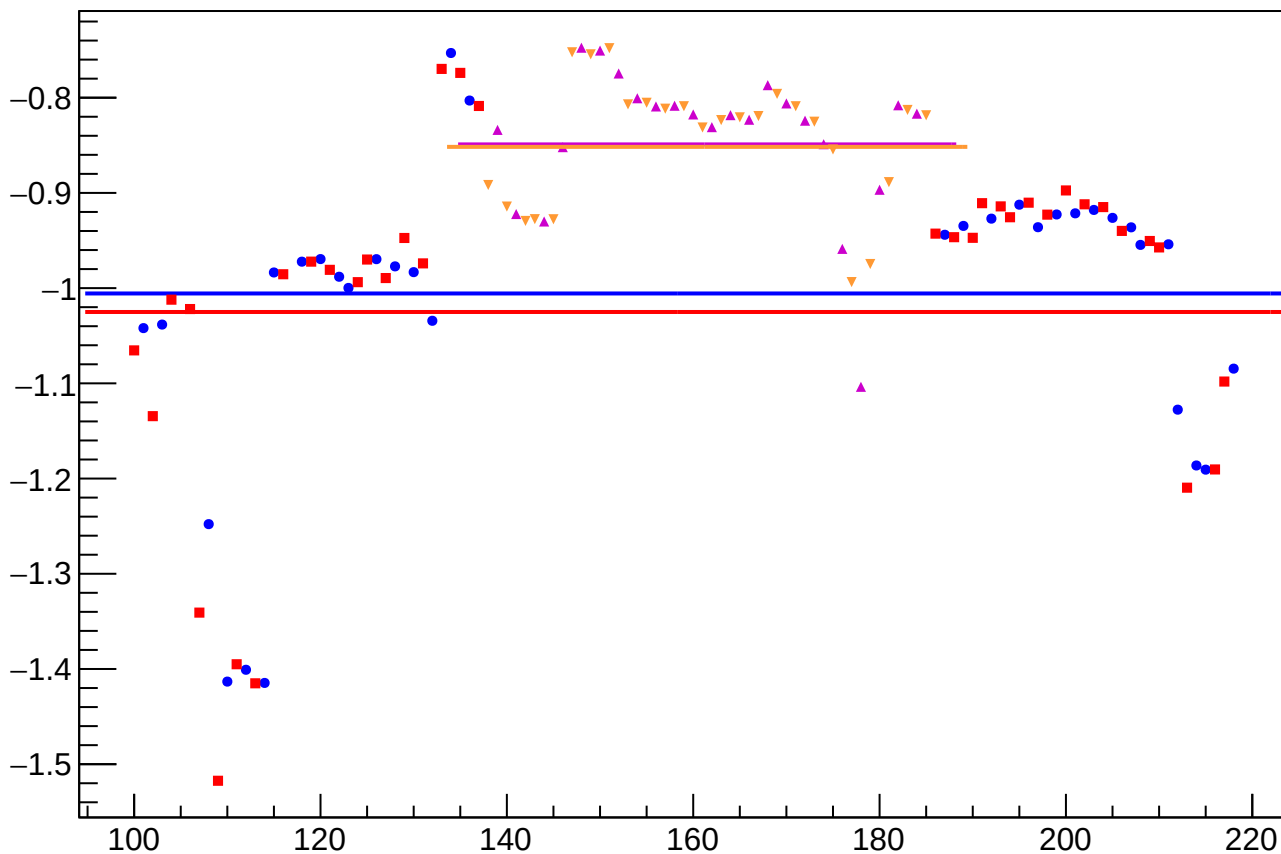
Right: 0.013+/-0.000 χ^2/NDF : 4052014.0/68

In: 0.012+/-0.000 χ^2/NDF : 2699583.1/55

Out: 0.012+/-0.000 χ^2/NDF : 3434728.1/60

All: 0.012+/-0.000 χ^2/NDF : 6134313.7/116

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.006 $\pm$ 0.000 χ^2 /NDF: 428732541.1/32

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189276591.7/24

Right Out: -1.025 $\pm$ 0.000 χ^2 /NDF: 577169915.1/35

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256438306.8/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445849768.4/47

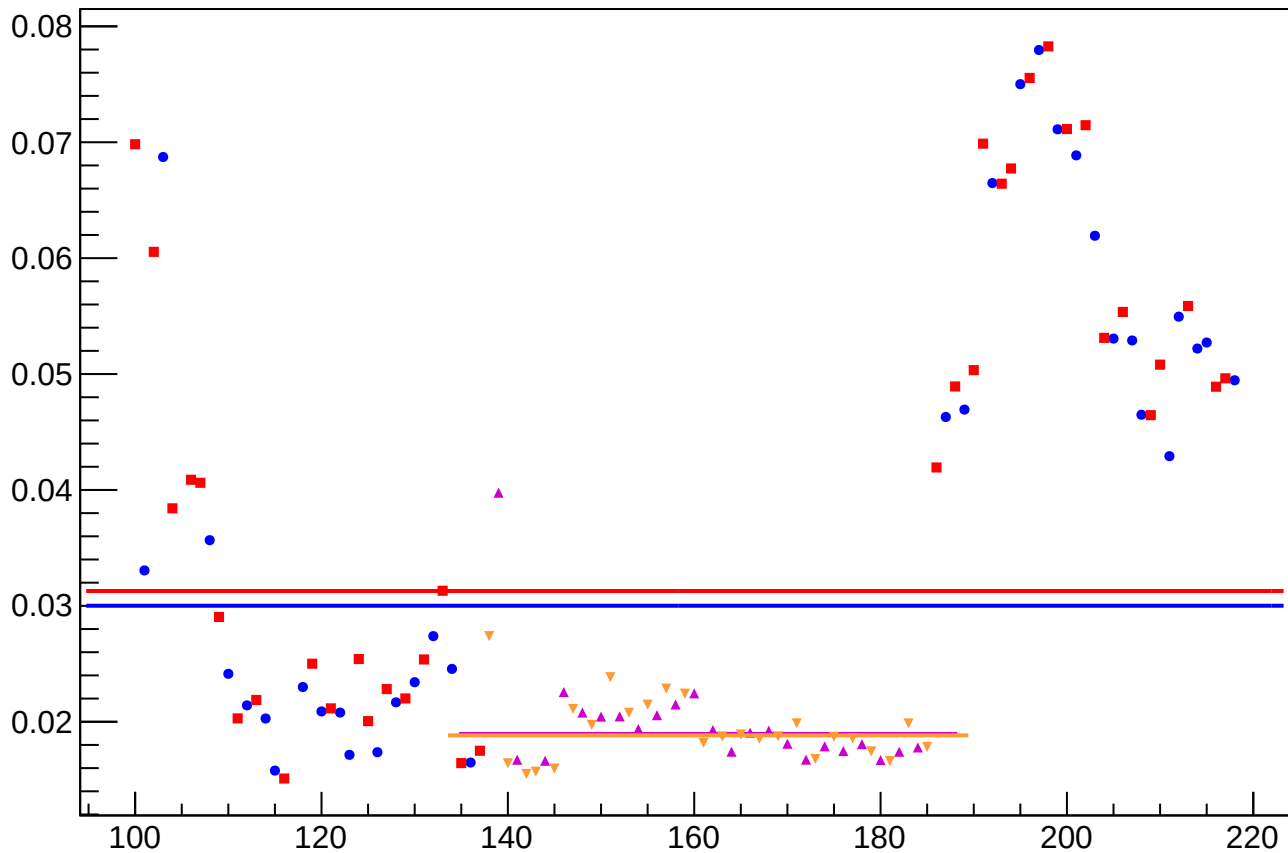
Right: -1.015 $\pm$ 0.000 χ^2 /NDF: 1008547296.8/68

In: -0.891 $\pm$ 0.000 χ^2 /NDF:941612514.6/55

Out: -0.894 $\pm$ 0.000 χ^2 /NDF:1077189040.2/60

All: -0.893 $\pm$ 0.000 χ^2 /NDF: 2019127571.1/11

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 7697994.2/32

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490084.5/24

Right Out: 0.031 $\pm$ 0.000 χ^2 /NDF: 7511207.7/35

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:645048.1/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1135735.6/47

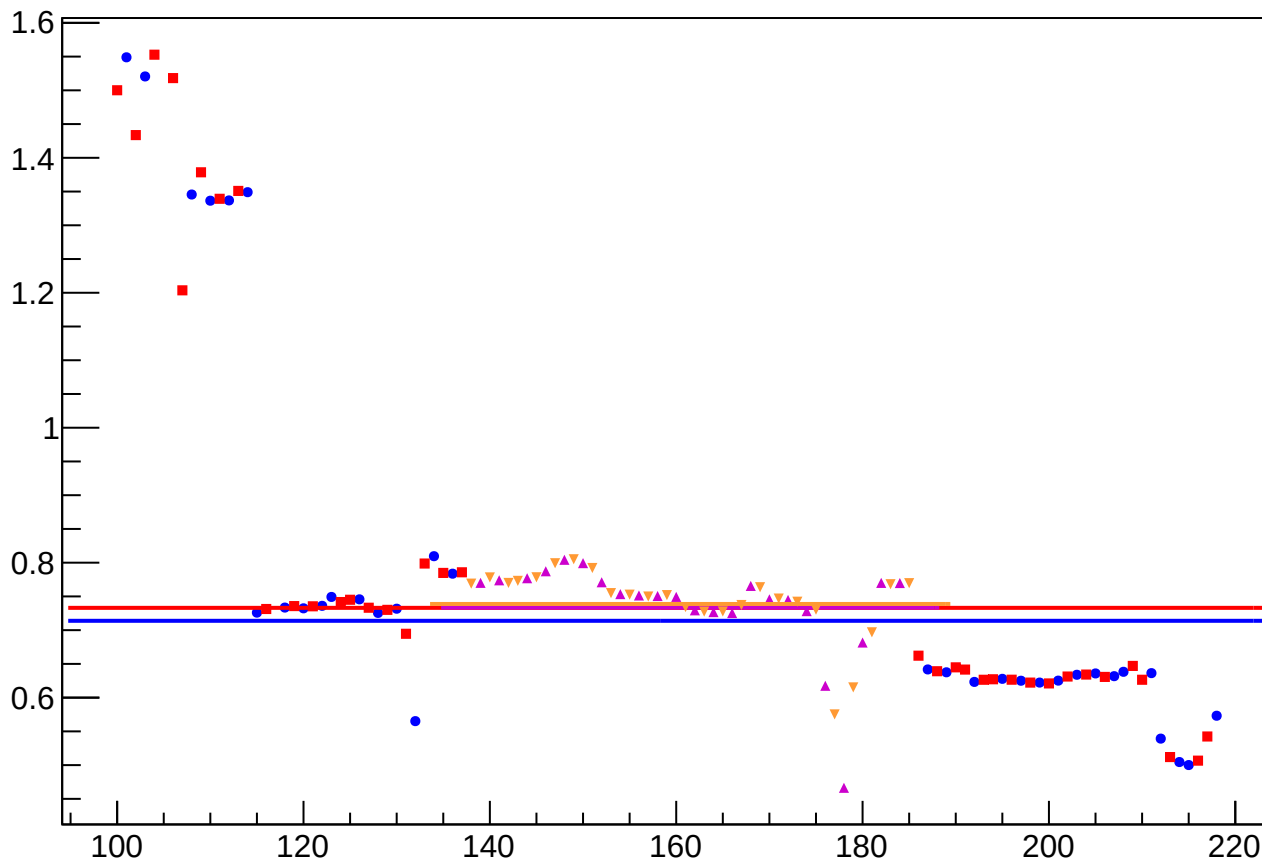
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 15231849.7/68

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10902711.2/55

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:11206601.0/60

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 22109317.7/116

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.714+/-0.000 χ^2/NDF : 3902364899.9/32

Left Out: 0.739+/-0.000 χ^2/NDF : 333086309.0/24

Right Out: 0.733+/-0.000 χ^2/NDF : 4186838710.7/35

Left In: 0.733+/-0.000 χ^2/NDF : 570264411.7/22

Left: 0.736+/-0.000 χ^2/NDF : 905100069.4/47

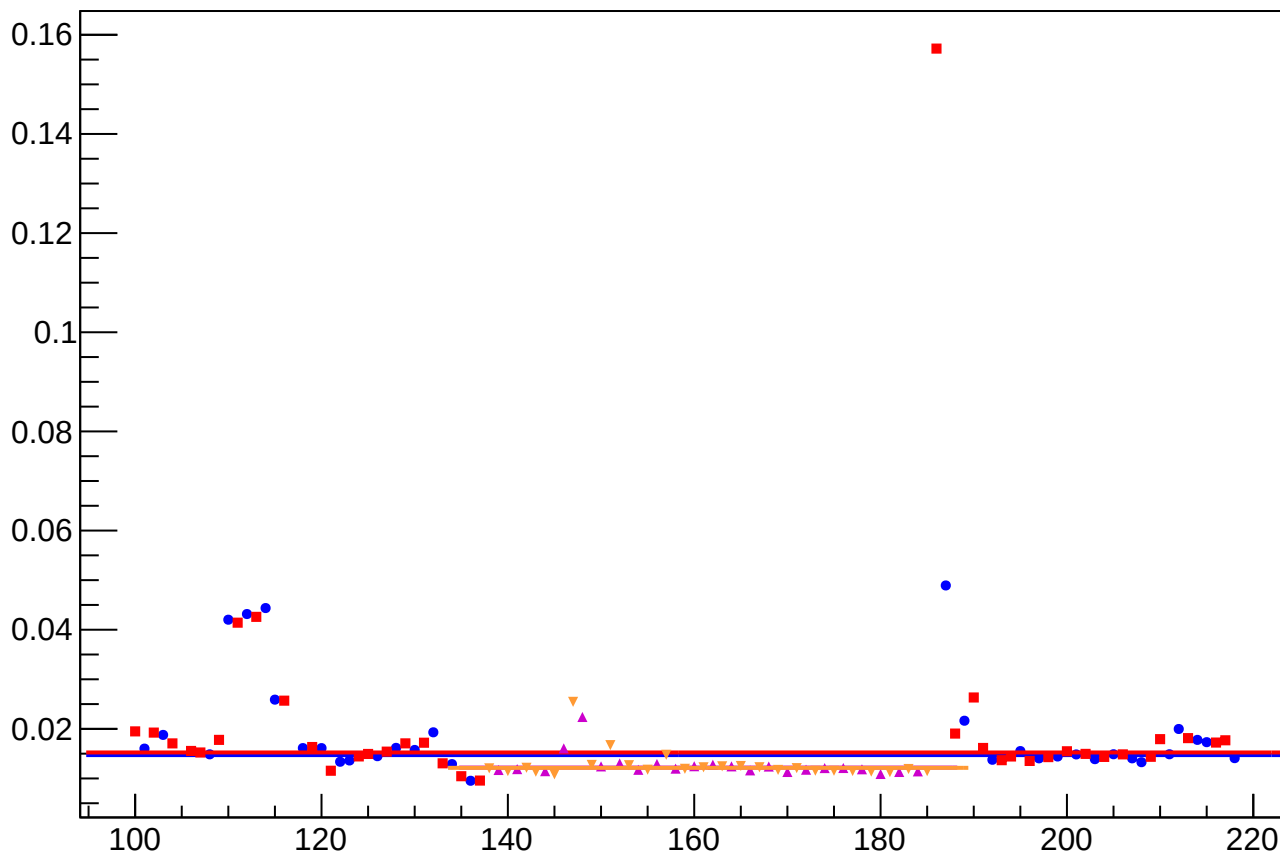
Right: 0.723+/-0.000 χ^2/NDF : 8102791580.5/68

In: 0.726+/-0.000 χ^2/NDF : 4489800741.1/55

Out: 0.737+/-0.000 χ^2/NDF : 4521409074.1/60

All: 0.731+/-0.000 χ^2/NDF : 9022974826.7/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1846280.6/32

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2210512.0/35

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

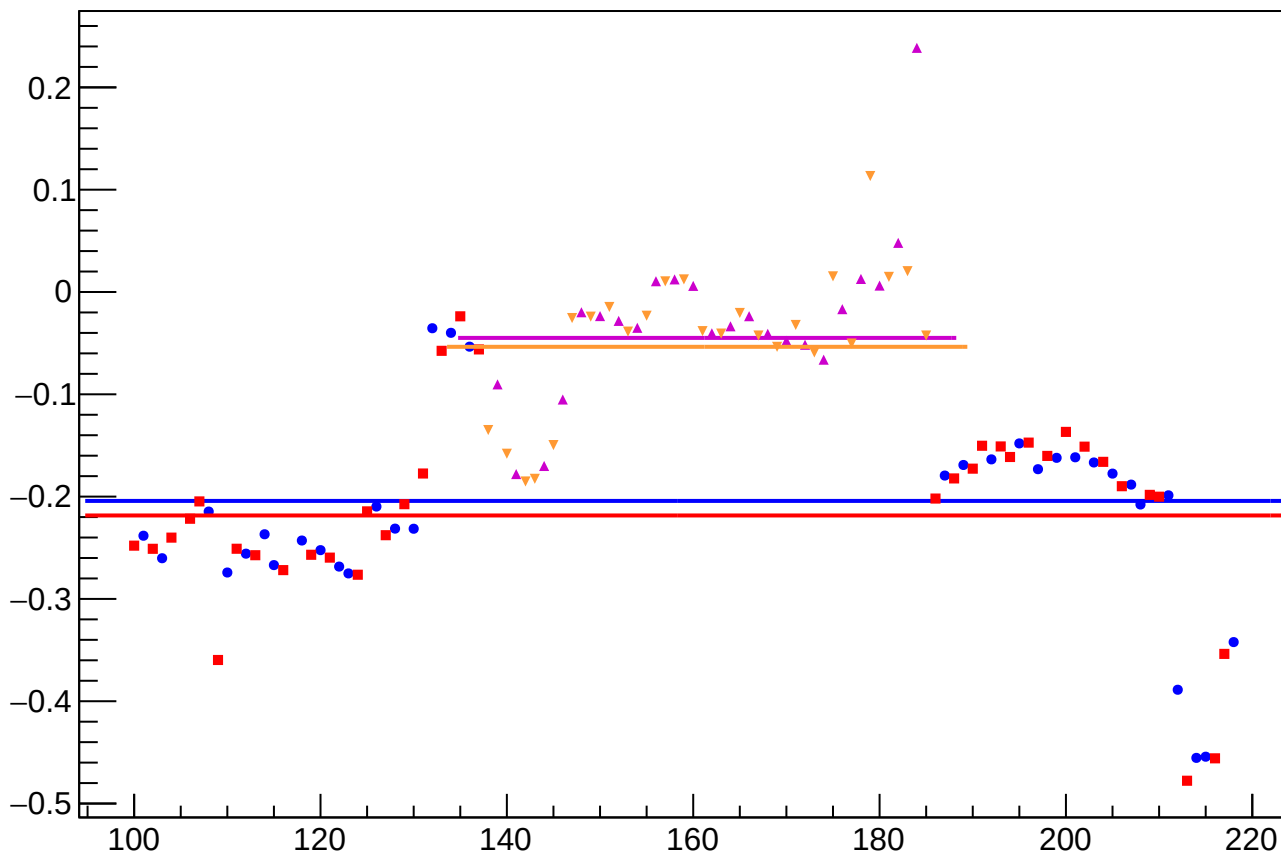
Right: 0.015+/-0.000 χ^2/NDF : 4077559.2/68

In: 0.013+/-0.000 χ^2/NDF : 2903874.3/55

Out: 0.013+/-0.000 χ^2/NDF : 3712725.6/60

All: 0.013+/-0.000 χ^2/NDF : 6618685.5/116

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.204 $\pm$ 0.000 χ^2 /NDF: 160307674.3/32

Left Out: -0.054 $\pm$ 0.000 χ^2 /NDF: 167879648.0/24

Right Out: -0.218 $\pm$ 0.000 χ^2 /NDF: 155496543.4/35

Left In: -0.045 $\pm$ 0.000 χ^2 /NDF: 127324000.1/22

Left: -0.049 $\pm$ 0.000 χ^2 /NDF: 296677486.5/47

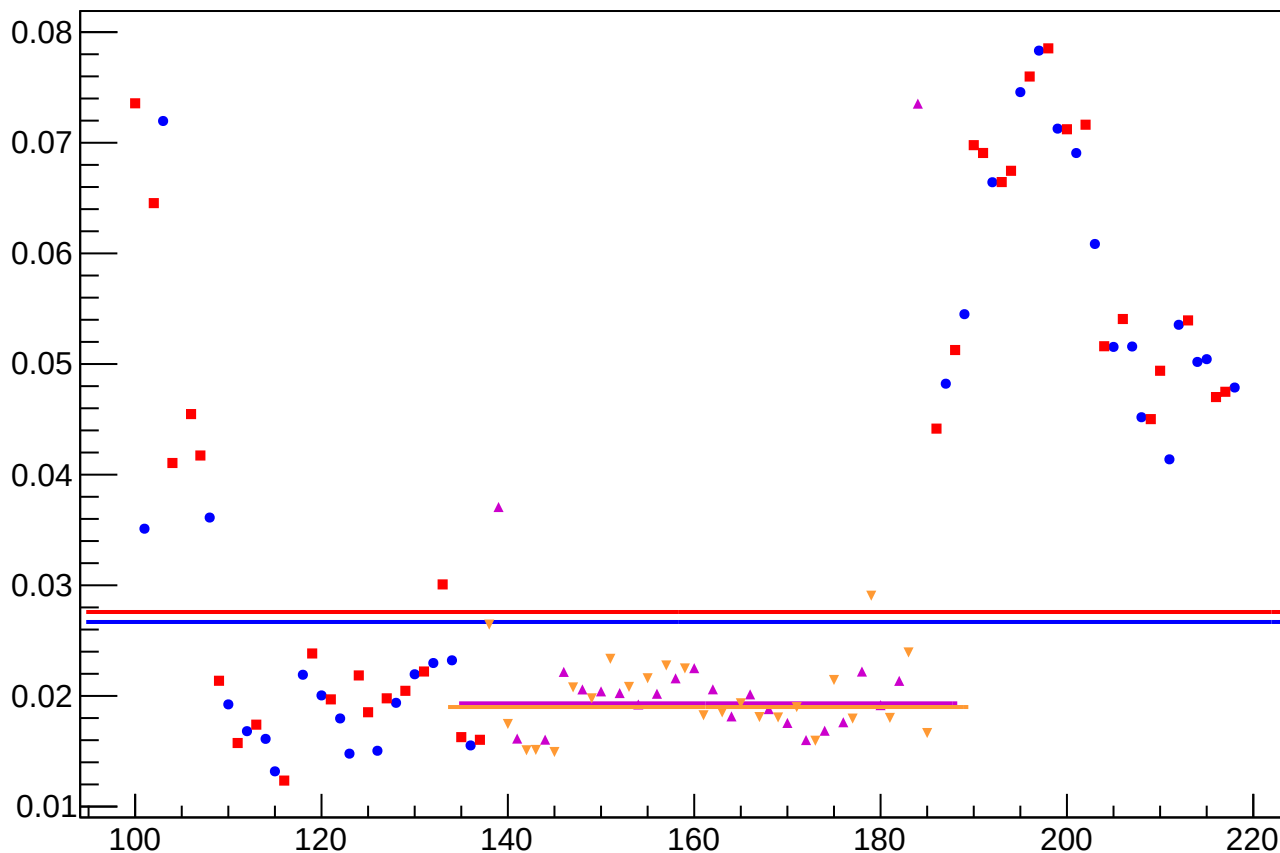
Right: -0.211 $\pm$ 0.000 χ^2 /NDF: 317503774.9/68

In: -0.095 $\pm$ 0.000 χ^2 /NDF: 585531383.1/55

Out: -0.101 $\pm$ 0.000 χ^2 /NDF: 642367766.3/60

All: -0.098 $\pm$ 0.000 χ^2 /NDF: 1229000942.0/1

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 9054001.4/32

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.028+/-0.000 χ^2/NDF : 9229655.1/35

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

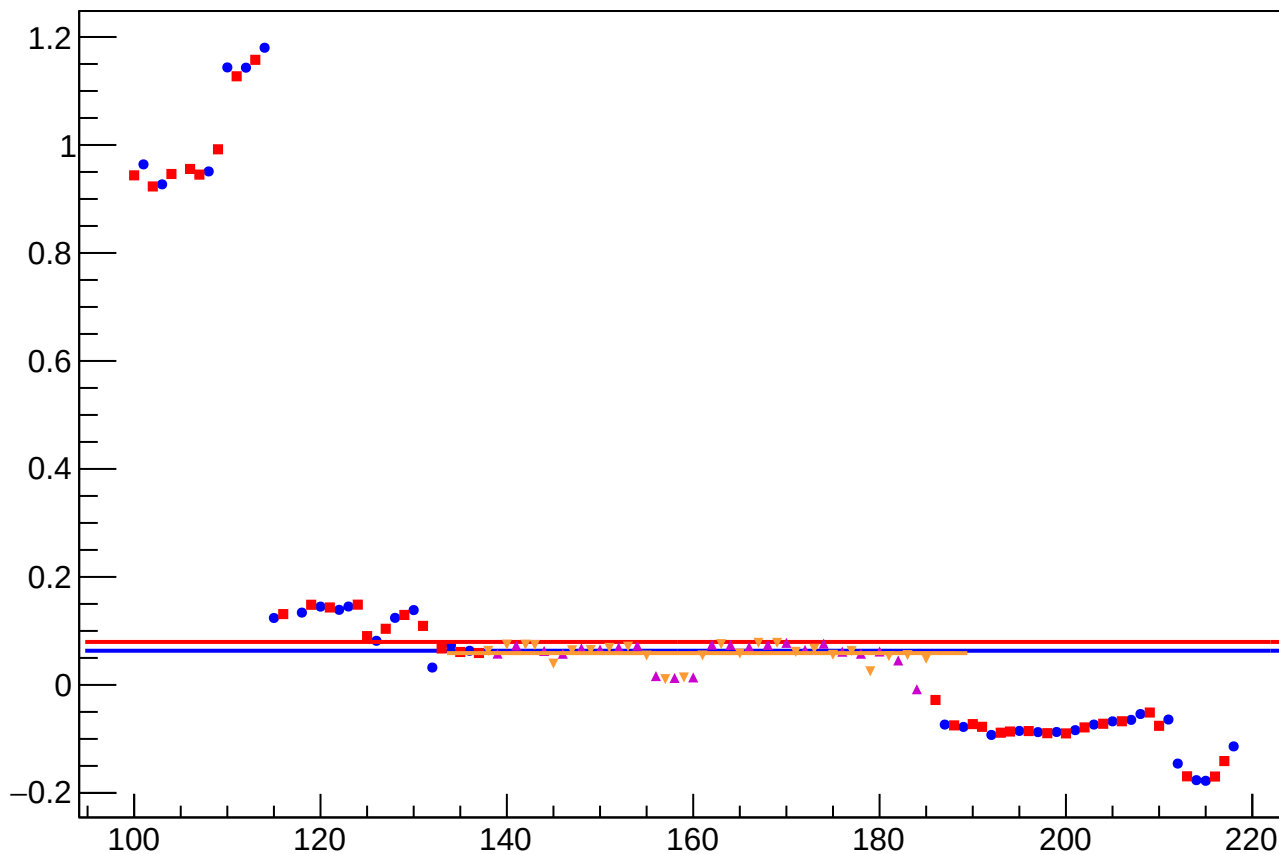
Right: 0.027+/-0.000 χ^2/NDF : 18297354.1/68

In: 0.022+/-0.000 χ^2/NDF : 11215924.9/55

Out: 0.021+/-0.000 χ^2/NDF : 11661255.5/60

All: 0.022+/-0.000 χ^2/NDF : 22878629.9/116

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.063 $\pm$ 0.000 χ^2 /NDF: 8791806070.3/32

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46902918.4/24

Right Out: 0.080 $\pm$ 0.000 χ^2 /NDF: 9649848194.4/35

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58640898.5/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105549886.8/47

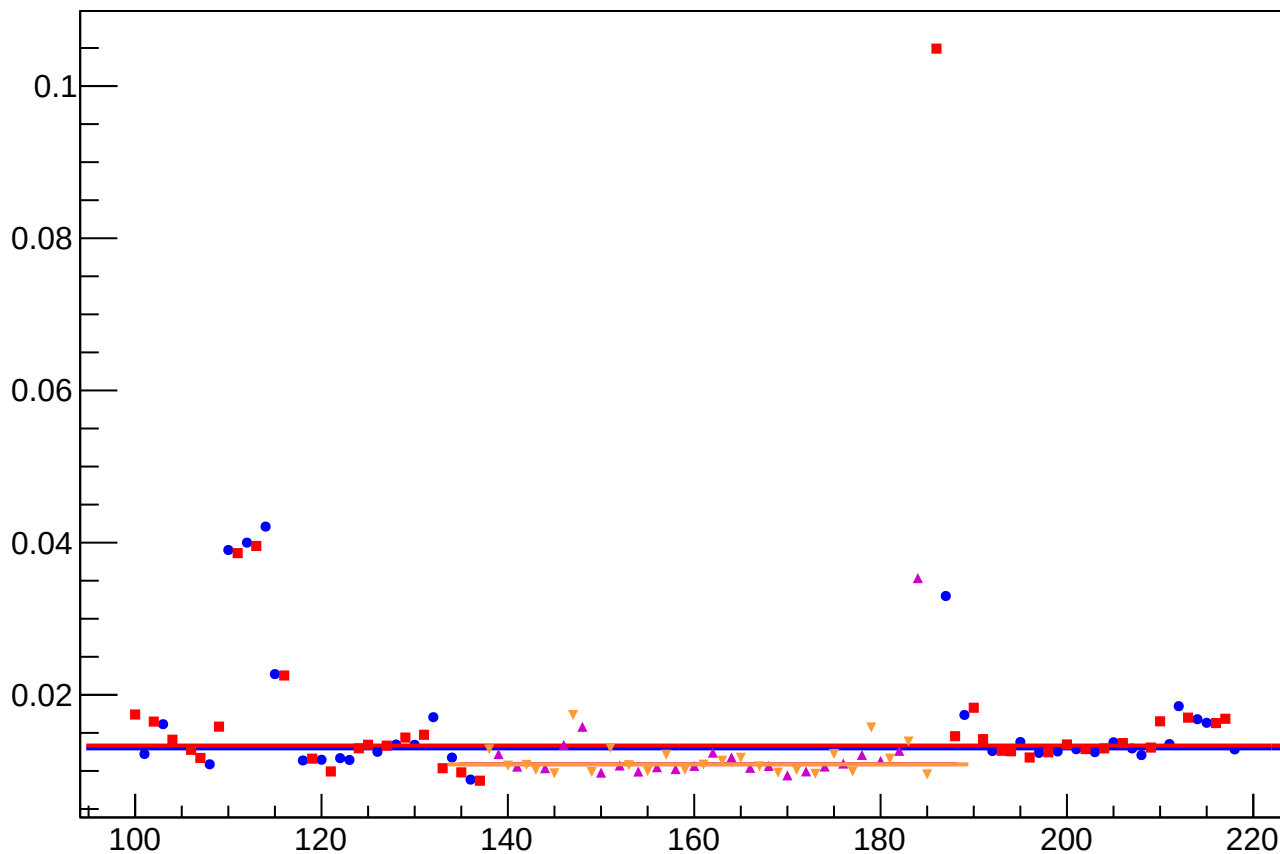
Right: 0.071 $\pm$ 0.000 χ^2 /NDF: 18454332305.6/68

In: 0.061 $\pm$ 0.000 χ^2 /NDF: 8851412107.9/55

Out: 0.067 $\pm$ 0.000 χ^2 /NDF: 9721099656.0/60

All: 0.064 $\pm$ 0.000 χ^2 /NDF: 18576963387.3/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1782098.6/32

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2151385.7/35

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

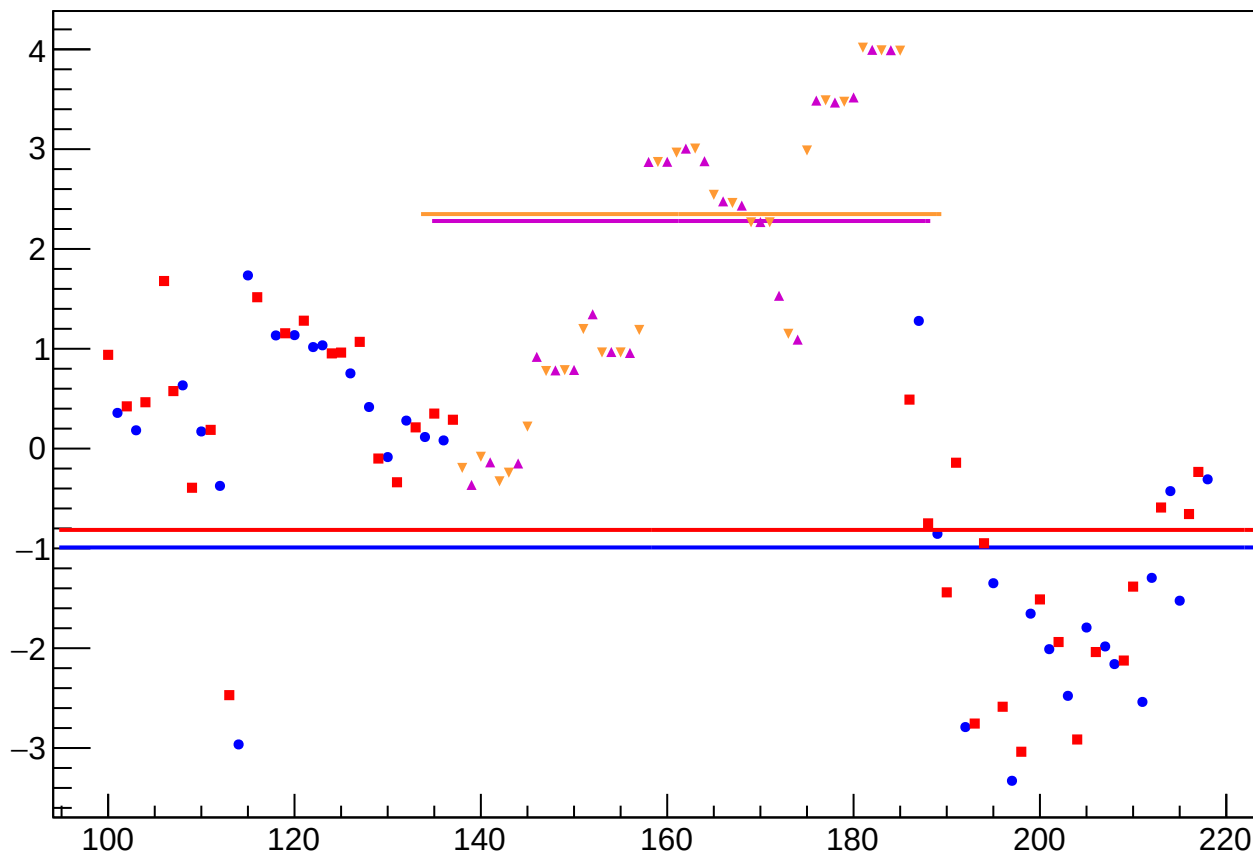
Right: 0.013+/-0.000 χ^2/NDF : 3946972.5/68

In: 0.012+/-0.000 χ^2/NDF : 2800184.2/55

Out: 0.012+/-0.000 χ^2/NDF : 3451752.4/60

All: 0.012+/-0.000 χ^2/NDF : 6253652.7/116

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.991 ± 0.000 $\chi^2/\text{NDF}: 8003890444.2/32$

Left Out: 2.349 ± 0.000 $\chi^2/\text{NDF}: 63600066268.3/24$

Right Out: -0.815 ± 0.000 $\chi^2/\text{NDF}: 8285096879.5/35$

Left In: 2.280 ± 0.000 $\chi^2/\text{NDF}: 61444254541.3/22$

Left: 2.314 ± 0.000 $\chi^2/\text{NDF}: 125168787170.9/47$

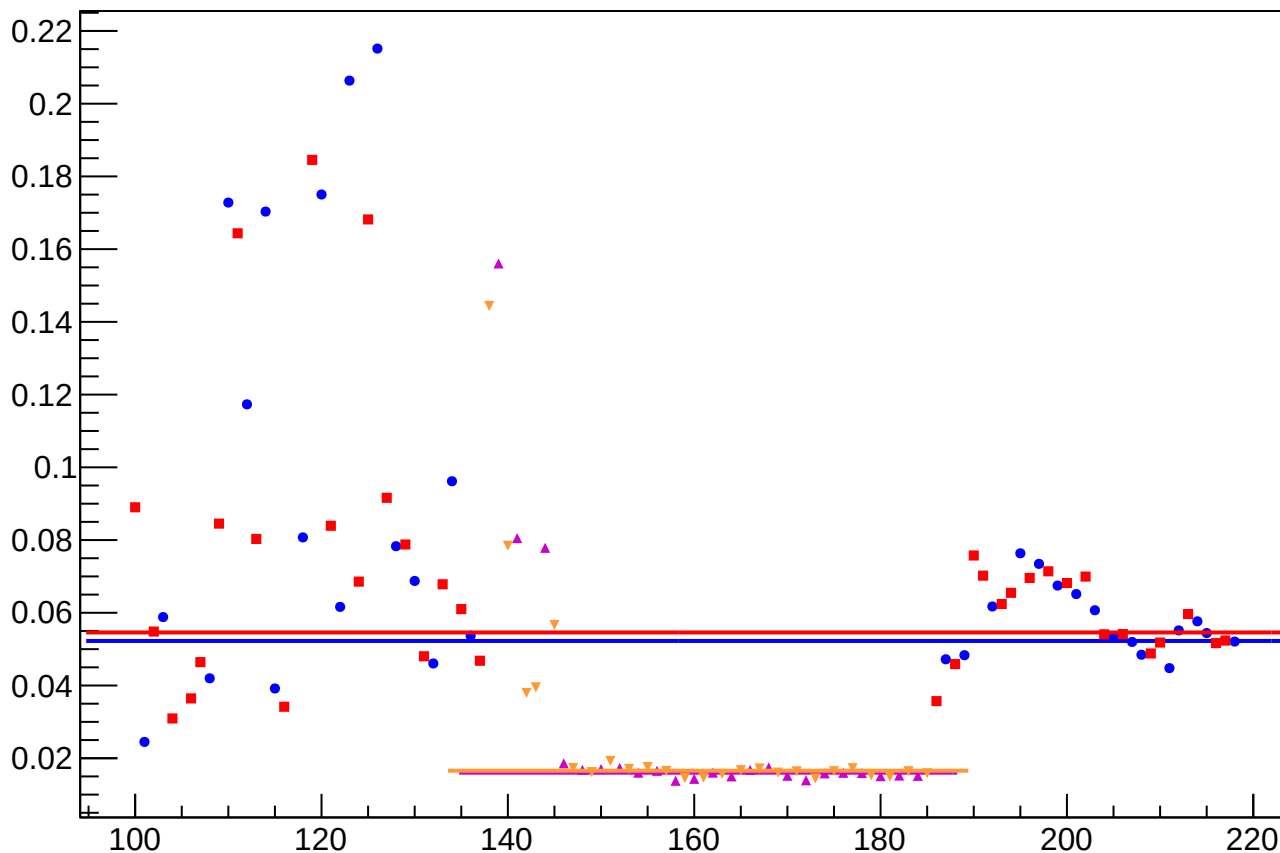
Right: -0.904 ± 0.000 $\chi^2/\text{NDF}: 16366921655.0/68$

In: 1.986 ± 0.000 $\chi^2/\text{NDF}: 119595505181.5/55$

Out: 2.069 ± 0.000 $\chi^2/\text{NDF}: 117198996129.6/60$

All: 2.027 ± 0.000 $\chi^2/\text{NDF}: 236989531916.4$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3525717.4/32

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2623615.6/24

Right Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 2881852.3/35

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2463853.3/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5102815.6/47

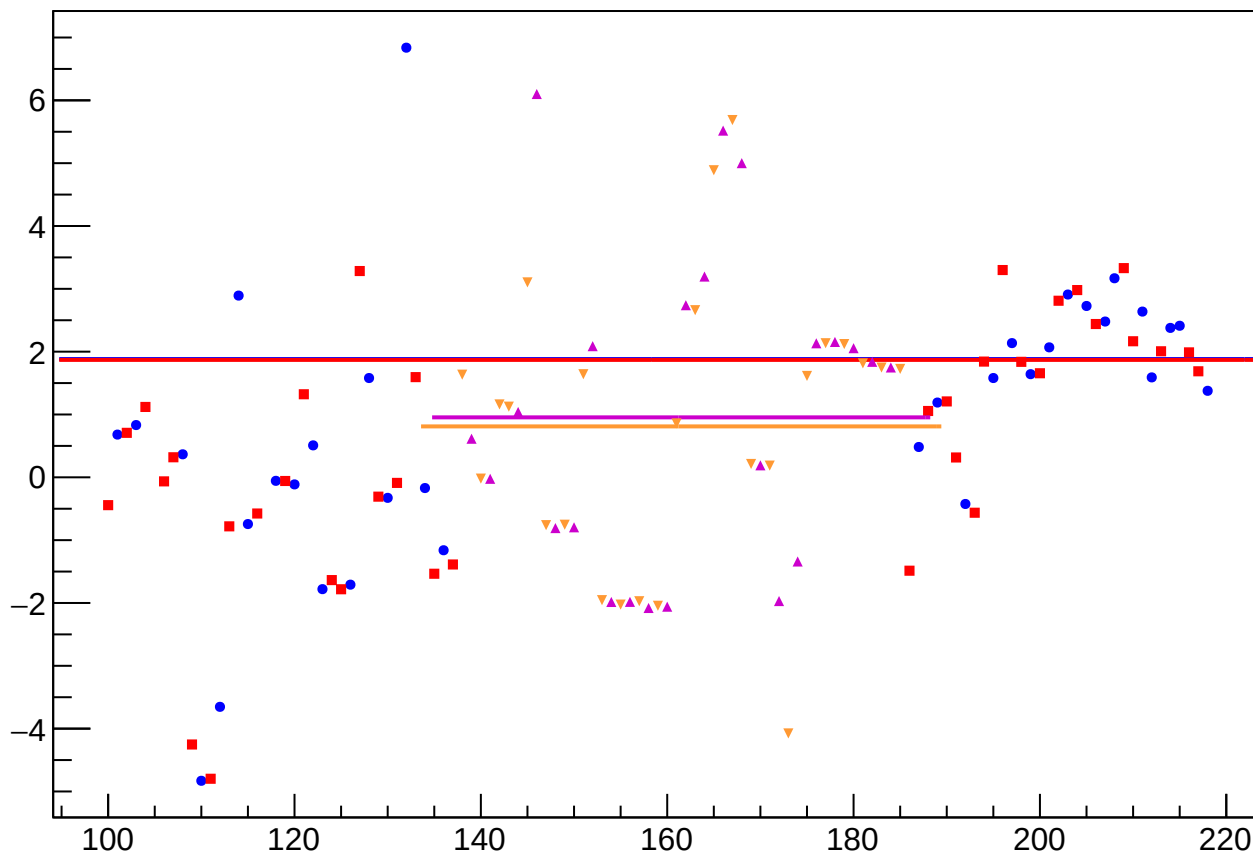
Right: 0.053 $\pm$ 0.000 χ^2 /NDF: 6435049.7/68

In: 0.019 $\pm$ 0.000 χ^2 /NDF:18293609.1/55

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:18582329.3/60

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 36900463.7/116

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.882+/-0.000

χ^2/NDF : 40044475555.7/32

Left: 0.883+/-0.000

χ^2/NDF : 1083260277372.9/47

Right: 1.876+/-0.000

χ^2/NDF : 79674470578.9/68

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

In: 1.216+/-0.000

χ^2/NDF : 635617671481.6/55

Right Out: 1.869+/-0.000

χ^2/NDF : 39627303231.6/35

Out: 1.097+/-0.000

χ^2/NDF : 573077469133.9/60

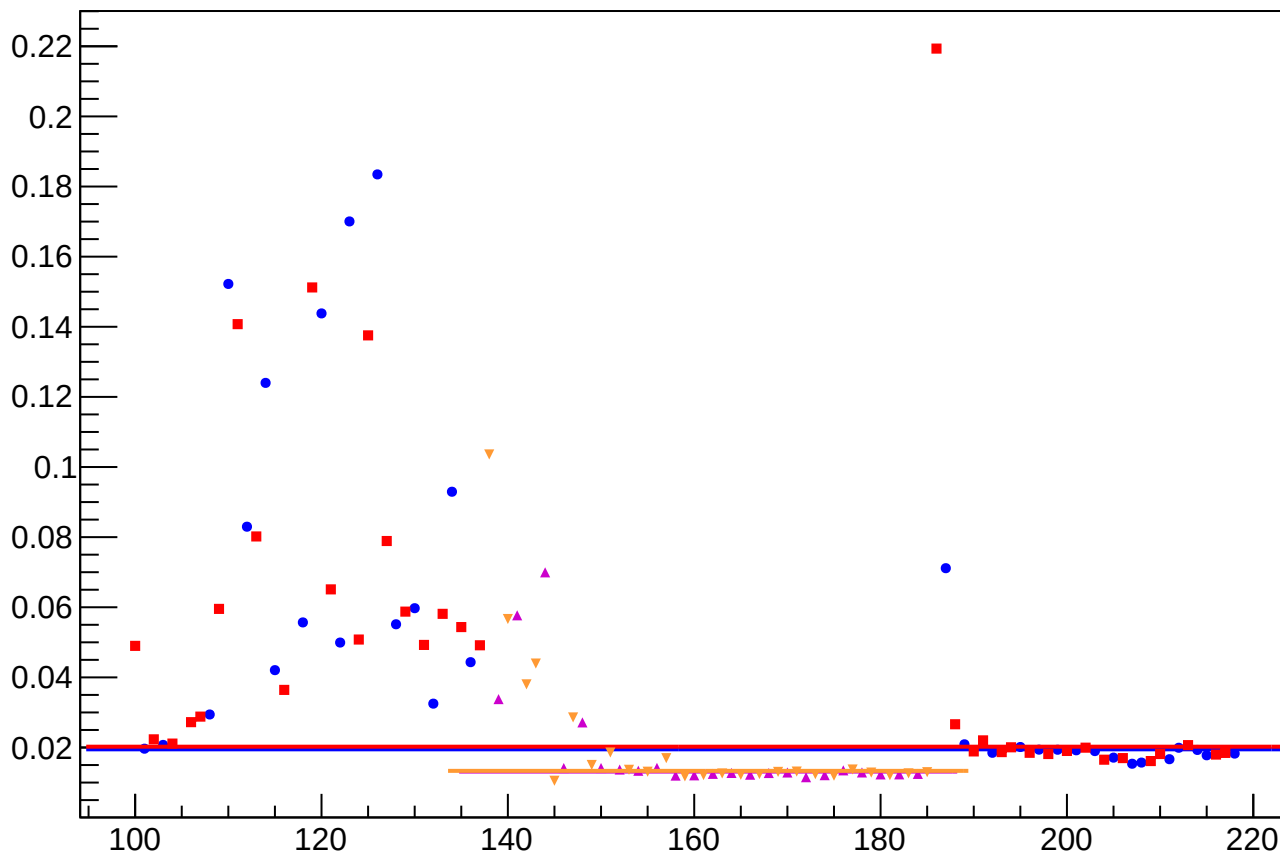
Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

All: 1.157+/-0.000

χ^2/NDF : 1209522098433.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 4132977.0/32

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5203730.9/35

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

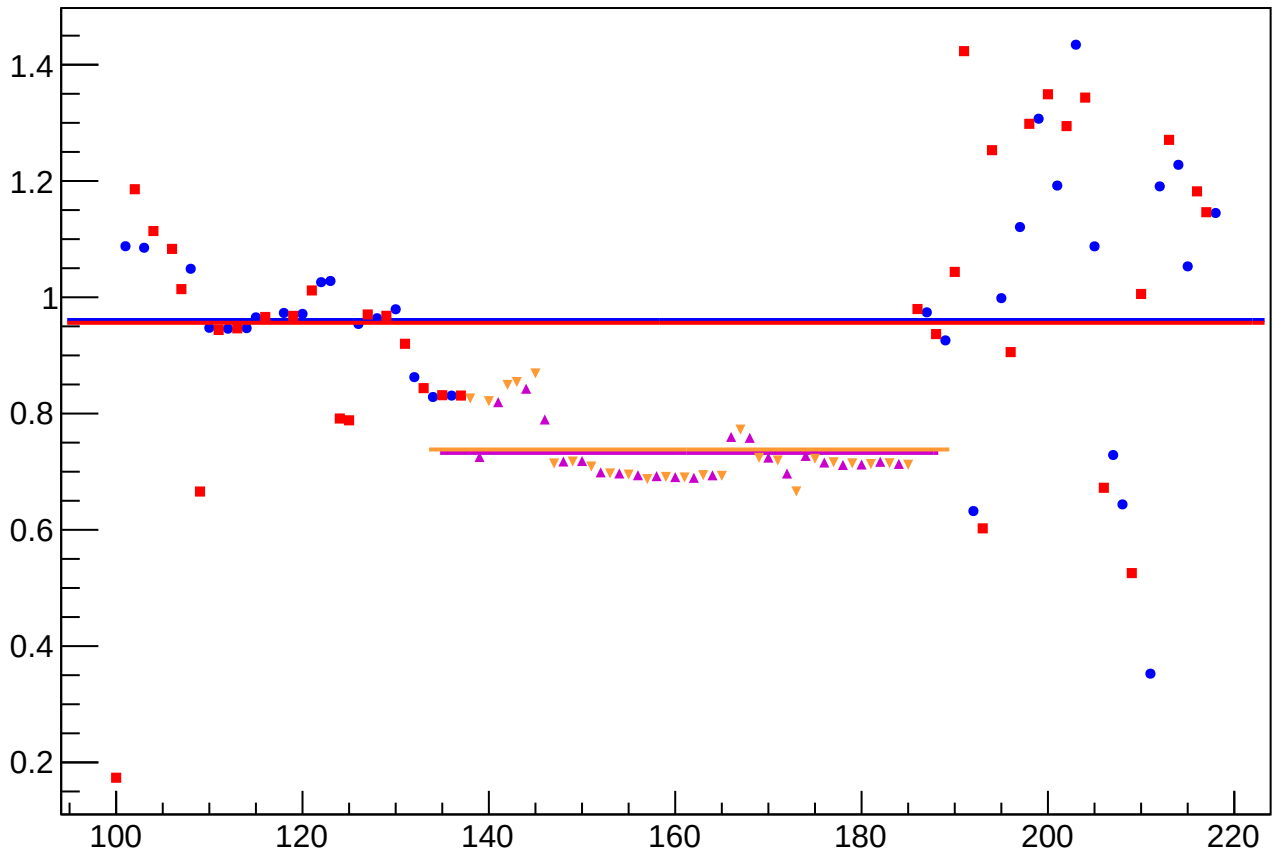
Right: 0.020+/-0.000 χ^2/NDF : 9355162.9/68

In: 0.015+/-0.000 χ^2/NDF :8045722.3/55

Out: 0.015+/-0.000 χ^2/NDF :10225061.9/60

All: 0.015+/-0.000 χ^2/NDF : 18280403.2/116

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.961 $\pm$ 0.000 χ^2 /NDF: 1014888403.7/32

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:310610047.7/24

Right Out: 0.956 $\pm$ 0.000 χ^2 /NDF: 1277973098.9/35

Left In: 0.732 $\pm$ 0.000 χ^2 /NDF:170806298.1/22

Left: 0.735 $\pm$ 0.000 χ^2 /NDF: 482865670.9/47

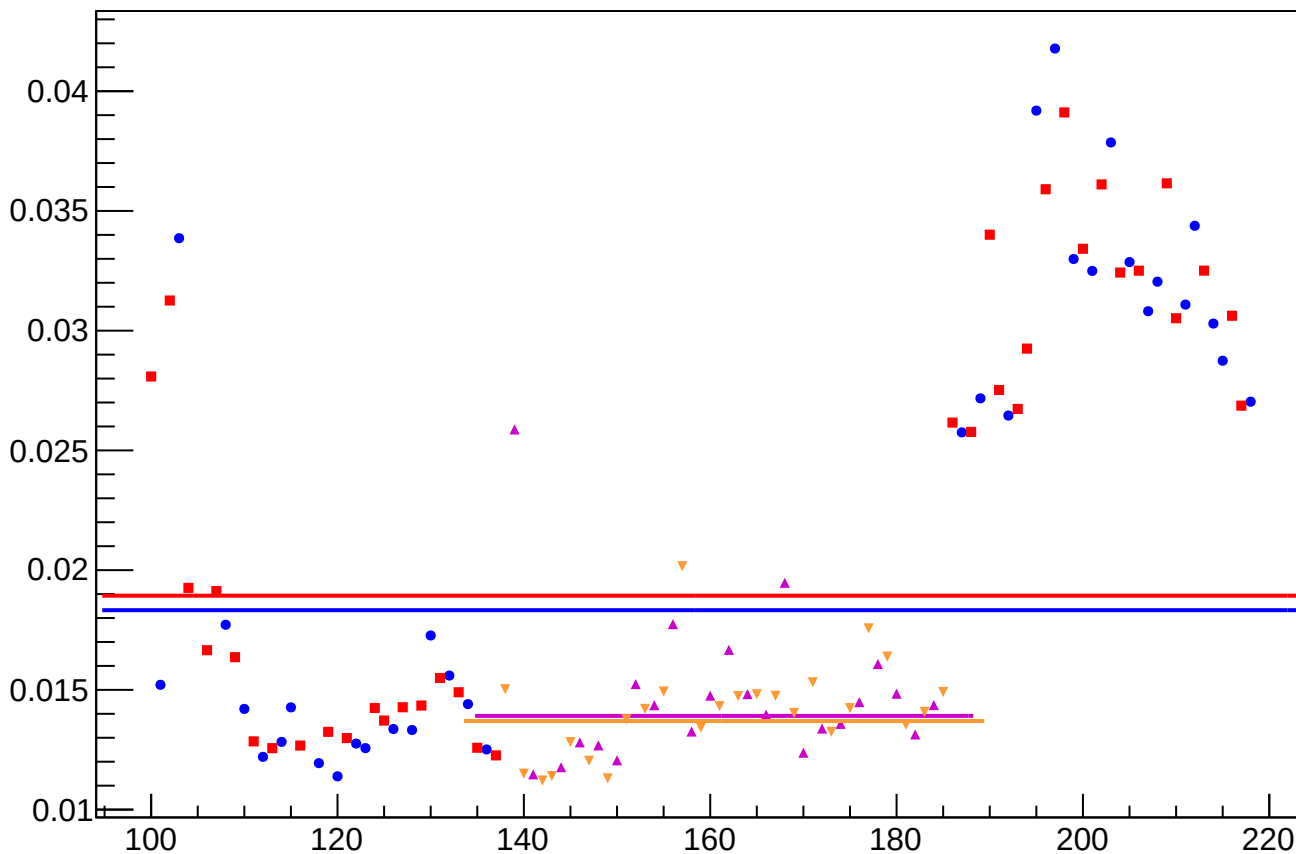
Right: 0.959 $\pm$ 0.000 χ^2 /NDF: 2293327974.3/68

In: 0.810 $\pm$ 0.000 χ^2 /NDF:2604268221.2/55

Out: 0.808 $\pm$ 0.000 χ^2 /NDF:2900667828.2/60

All: 0.809 $\pm$ 0.000 χ^2 /NDF: 5505111174.8/11

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 5723174.1/32

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.019+/-0.000 χ^2/NDF : 5131952.5/35

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

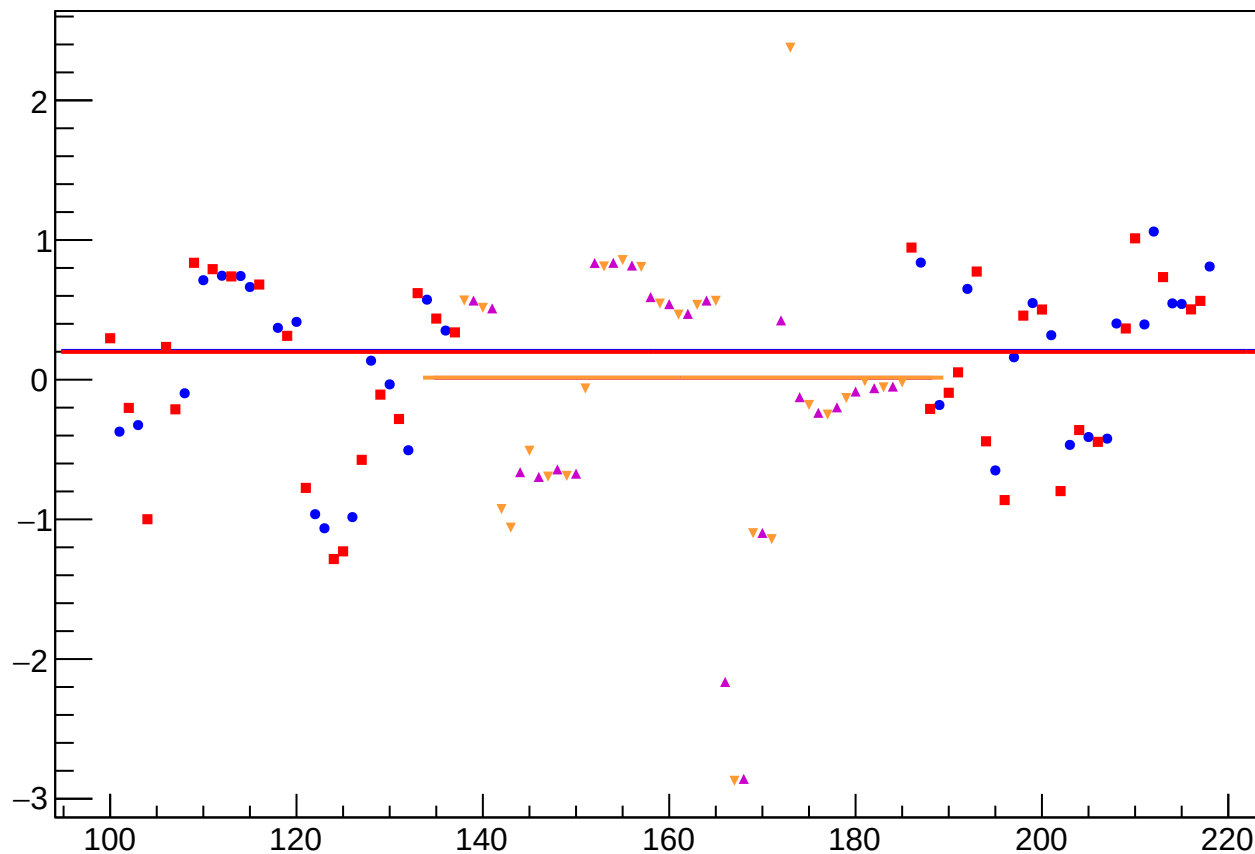
Right: 0.019+/-0.000 χ^2/NDF : 10870143.7/68

In: 0.015+/-0.000 χ^2/NDF : 7576002.3/55

Out: 0.015+/-0.000 χ^2/NDF : 7178100.6/60

All: 0.015+/-0.000 χ^2/NDF : 14754236.0/116

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.206 $\pm$ 0.000 χ^2 /NDF: 33924858899.8/32

Left Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 96087835995.8/24

Right Out: 0.199 $\pm$ 0.000 χ^2 /NDF: 42711118894.5/35

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF: 79445696658.6/22

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 175533691121.4/47

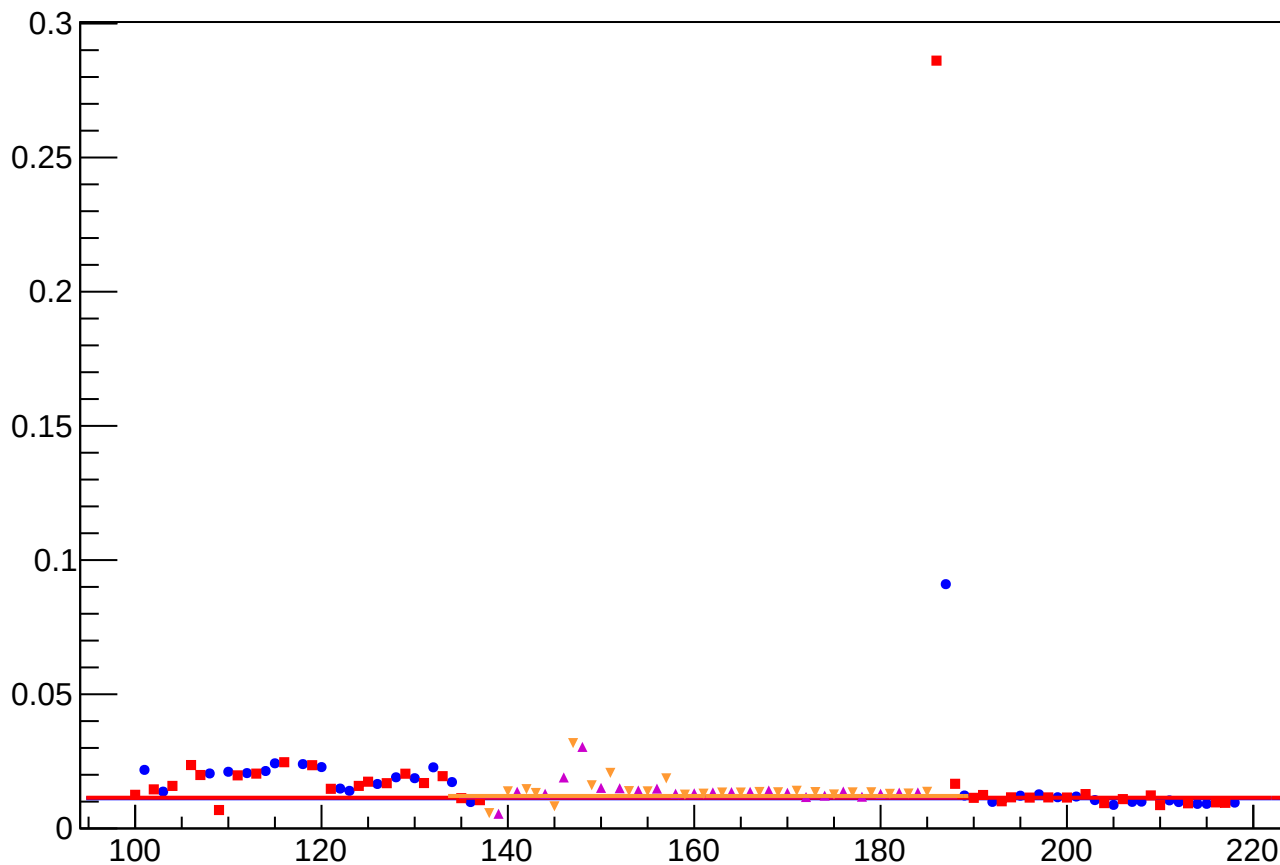
Right: 0.203 $\pm$ 0.000 χ^2 /NDF: 76638777906.0/68

In: 0.115 $\pm$ 0.000 χ^2 /NDF: 115469658695.1/55

Out: 0.110 $\pm$ 0.000 χ^2 /NDF: 140718437942.1/60

All: 0.113 $\pm$ 0.000 χ^2 /NDF: 256191346483.0

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2621508.8/32

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3085722.7/35

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

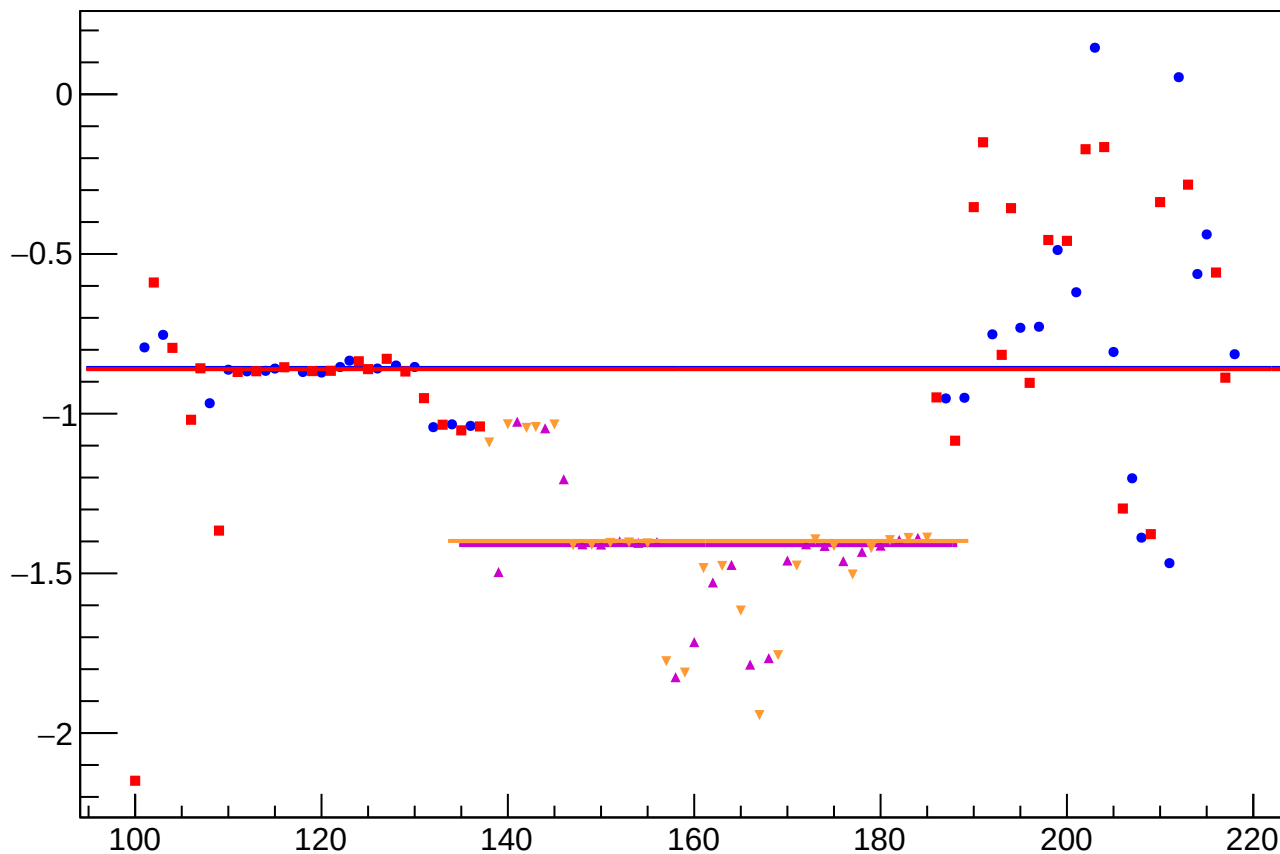
Right: 0.011+/-0.000 χ^2/NDF : 5712826.1/68

In: 0.012+/-0.000 χ^2/NDF :5780674.8/55

Out: 0.012+/-0.000 χ^2/NDF :6242192.5/60

All: 0.012+/-0.000 χ^2/NDF : 12033093.1/116

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.857+/-0.000 χ^2/NDF : 371551183.8/32

Left Out: -1.398+/-0.000 χ^2/NDF : 734579404.3/24

Right Out: -0.861+/-0.000 χ^2/NDF : 493161579.9/35

Left In: -1.412+/-0.000 χ^2/NDF : 512629872.4/22

Left: -1.405+/-0.000 χ^2/NDF : 1248268857.1/47

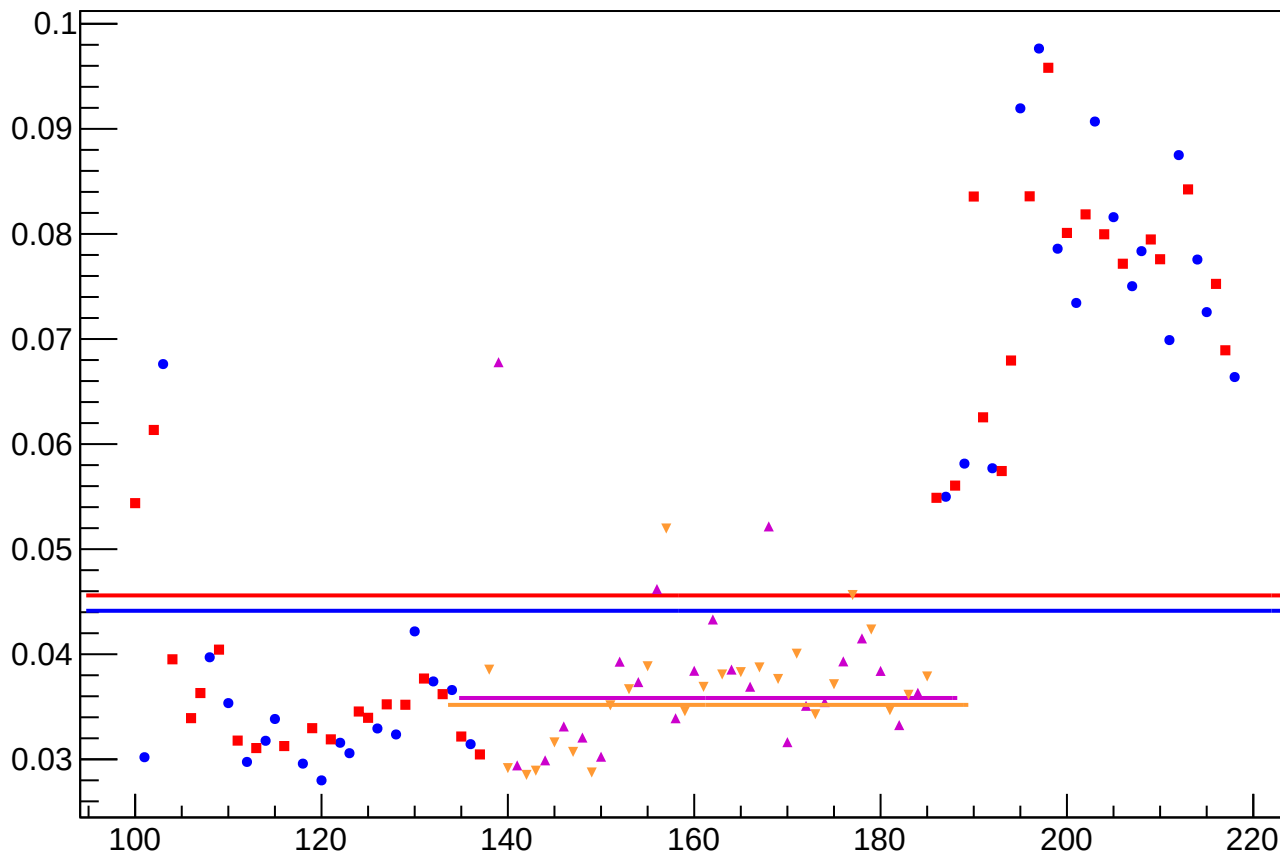
Right: -0.859+/-0.000 χ^2/NDF : 864767365.2/68

In: -1.203+/-0.000 χ^2/NDF : 2268817305.1/55

Out: -1.208+/-0.000 χ^2/NDF : 2558069296.9/60

All: -1.206+/-0.000 χ^2/NDF : 4827118014.9/118

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.044 $\pm$ 0.000 χ^2 /NDF: 5546181.5/32

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 597886.0/24

Right Out: 0.046 $\pm$ 0.000 χ^2 /NDF: 4747421.2/35

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF: 890993.5/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1494255.9/47

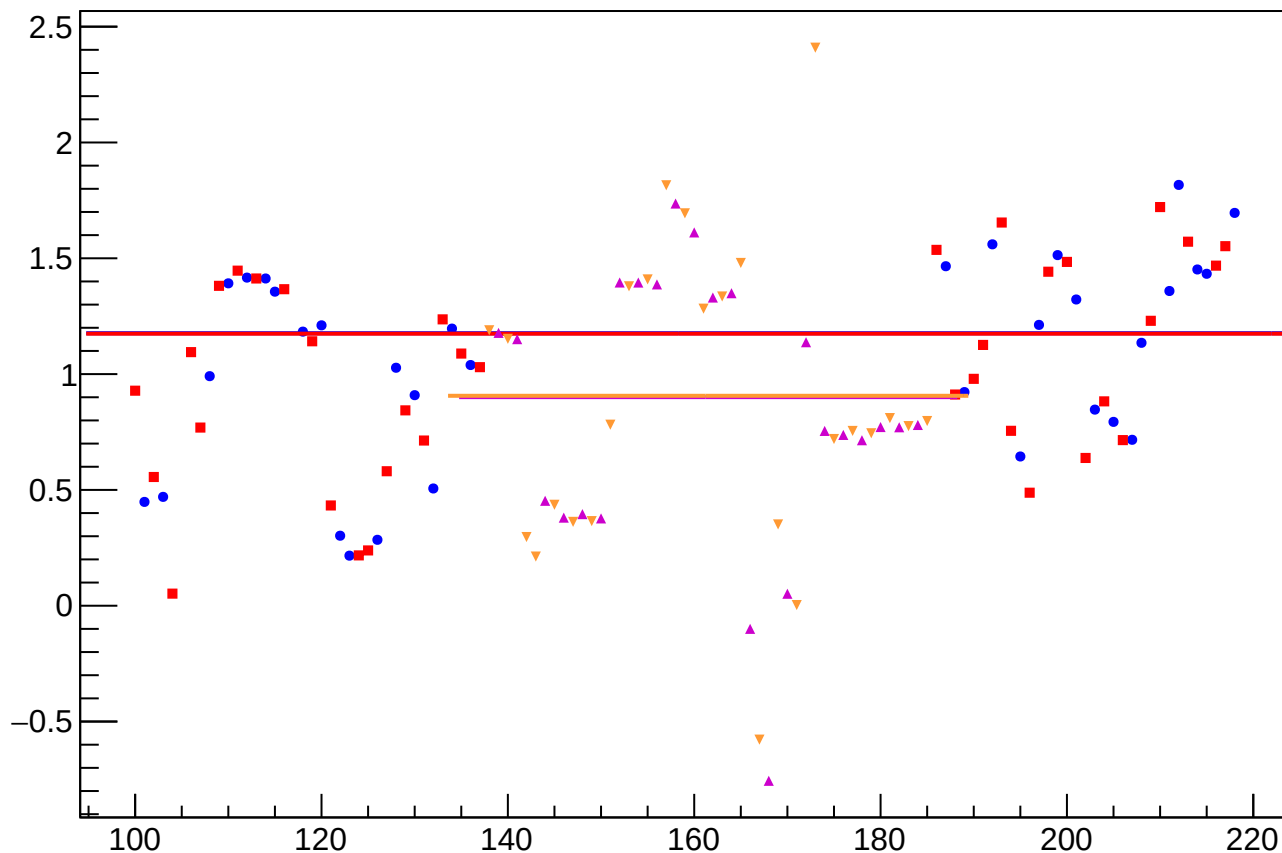
Right: 0.045 $\pm$ 0.000 χ^2 /NDF: 10308907.9/68

In: 0.039 $\pm$ 0.000 χ^2 /NDF: 7057079.1/55

Out: 0.039 $\pm$ 0.000 χ^2 /NDF: 6343806.7/60

All: 0.039 $\pm$ 0.000 χ^2 /NDF: 13401025.7/116

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.177+/-0.000

χ^2/NDF : 49777248801.2/32

Left: 0.904+/-0.000

χ^2/NDF : 151044220035.9/47

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

Right: 1.176+/-0.000

χ^2/NDF : 100139468220.1/68

Right Out: 1.174+/-0.000

χ^2/NDF : 50361557581.1/35

In: 1.070+/-0.000

χ^2/NDF : 126443370526.0/55

Out: 1.059+/-0.000

χ^2/NDF : 143455536085.0/60

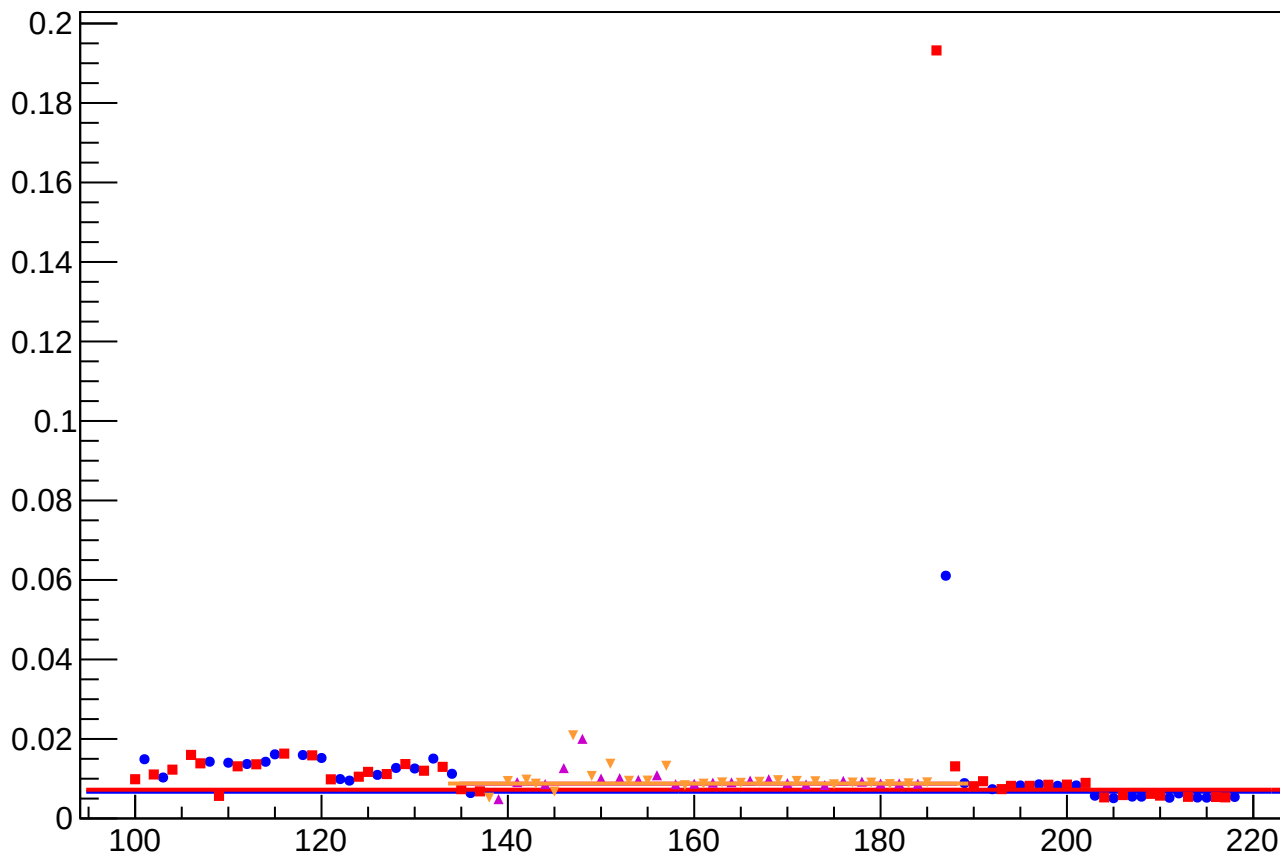
Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 1.065+/-0.000

χ^2/NDF : 269929784322.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3797165.4/32

Left Out: 0.009+/-0.000 χ^2/NDF :1698526.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4089673.8/35

Left In: 0.009+/-0.000 χ^2/NDF :1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

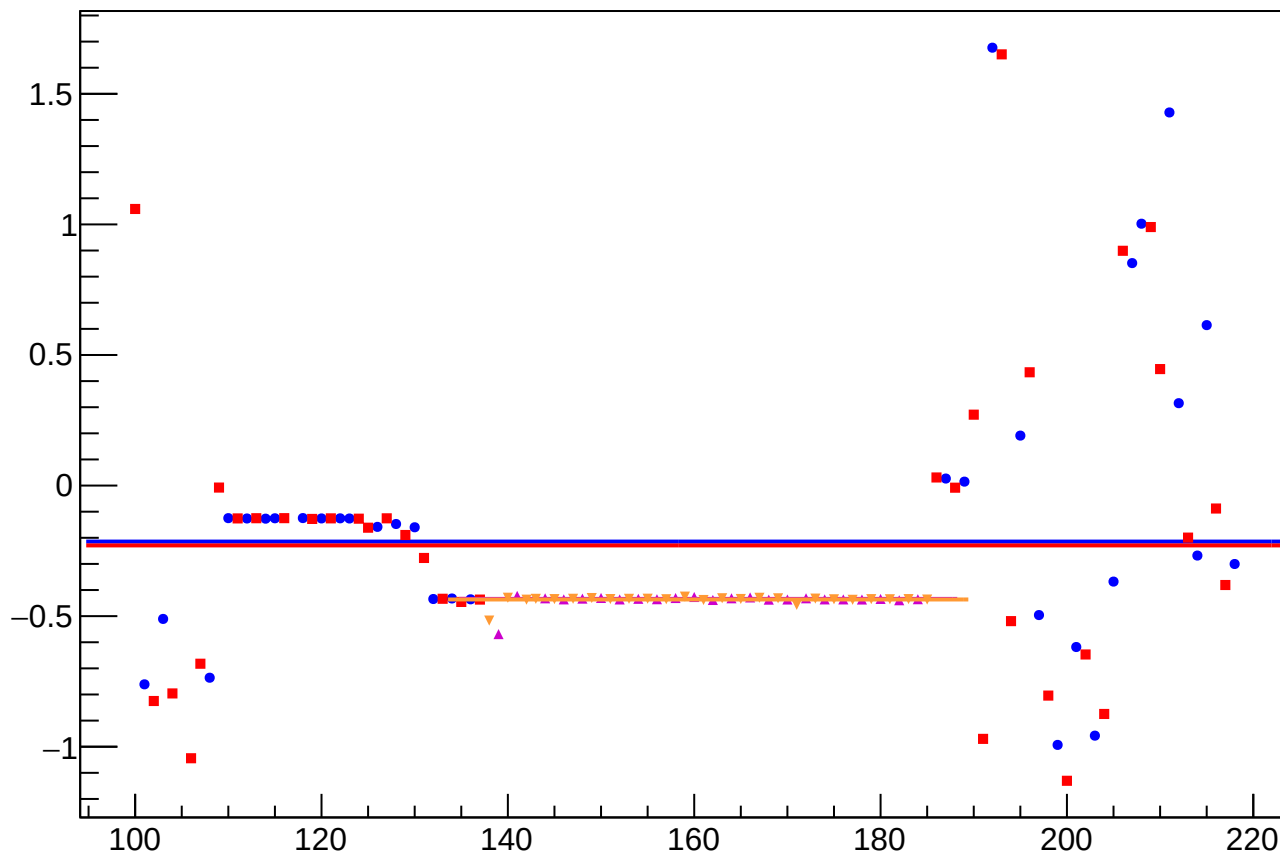
Right: 0.007+/-0.000 χ^2/NDF : 7967948.8/68

In: 0.007+/-0.000 χ^2/NDF :6505926.7/55

Out: 0.008+/-0.000 χ^2/NDF :6391283.9/60

All: 0.008+/-0.000 χ^2/NDF : 12981777.4/116

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.214+/-0.000

χ^2/NDF : 4982799606.7/32

Left Out: -0.436+/-0.000

χ^2/NDF : 28776503.9/24

Right Out: -0.229+/-0.000

χ^2/NDF : 3431148881.8/35

Left In: -0.434+/-0.000

χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000

χ^2/NDF : 49321098.5/47

Right: -0.222+/-0.000

χ^2/NDF : 8417736005.7/68

In: -0.392+/-0.000

χ^2/NDF : 6406437741.4/55

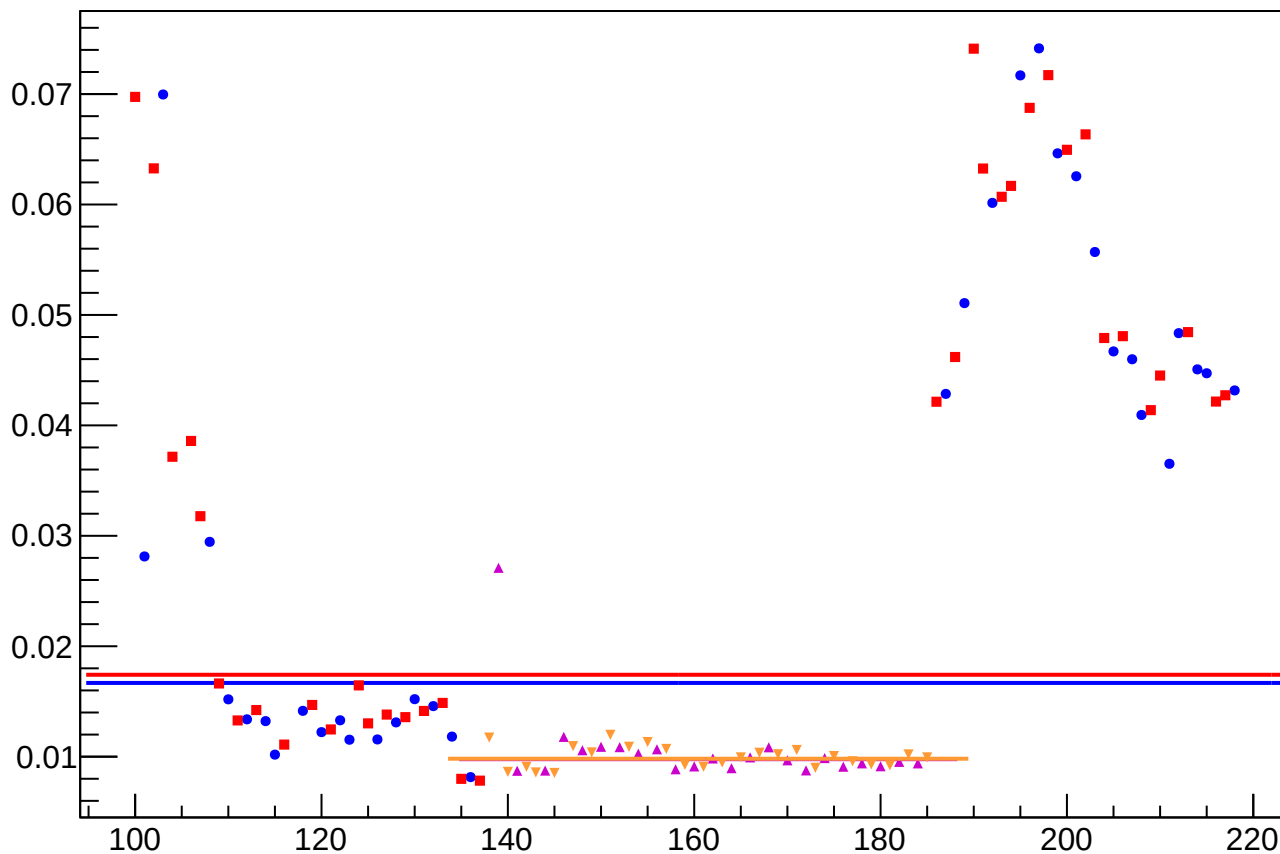
Out: -0.400+/-0.000

χ^2/NDF : 4664455814.1/60

All: -0.396+/-0.000

χ^2/NDF : 11077213128.1/100

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 13094813.3/32

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.017+/-0.000 χ^2/NDF : 13287321.0/35

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

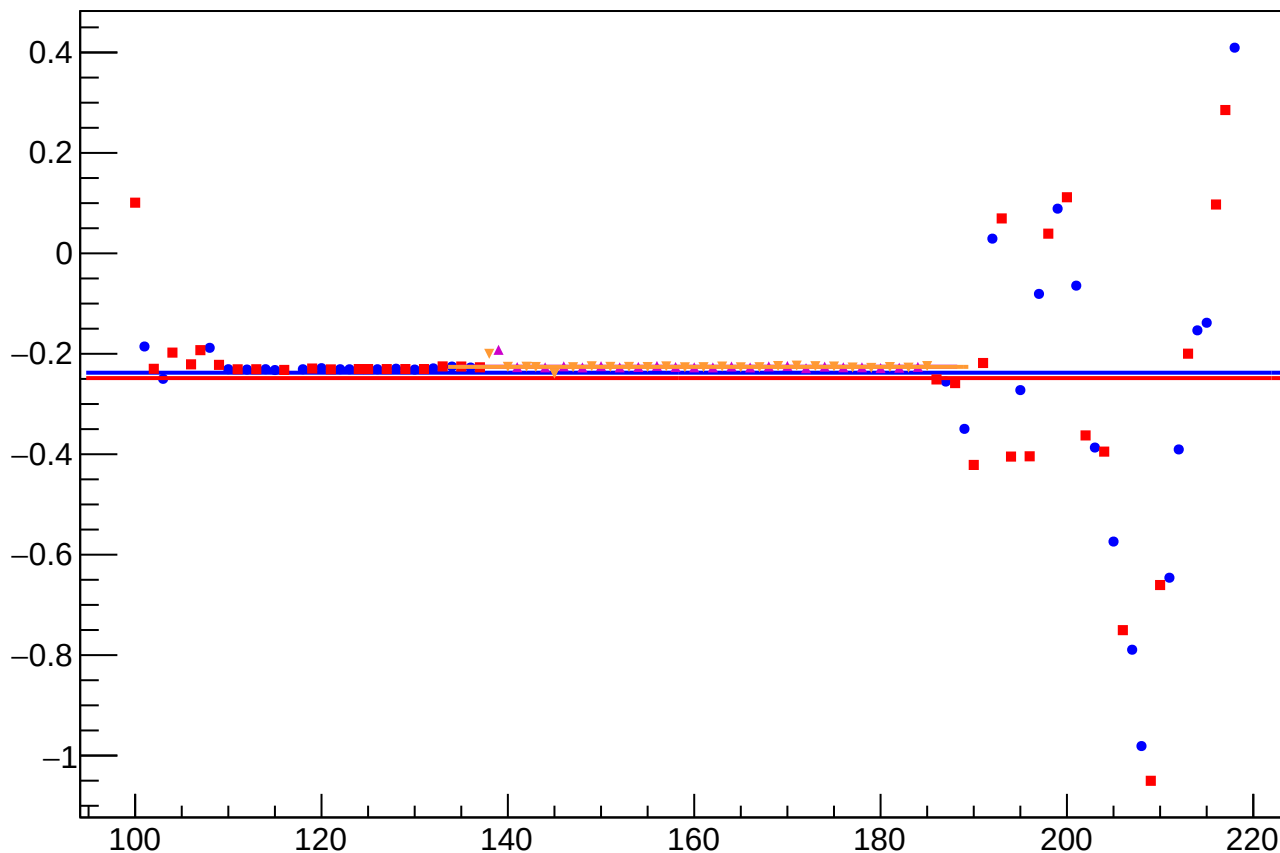
Right: 0.017+/-0.000 χ^2/NDF : 26401199.6/68

In: 0.011+/-0.000 χ^2/NDF : 16658597.5/55

Out: 0.011+/-0.000 χ^2/NDF : 16806873.5/60

All: 0.011+/-0.000 χ^2/NDF : 33465872.1/116

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.238+/-0.000

χ^2/NDF : 33537483794.1/32

Left Out: -0.226+/-0.000

χ^2/NDF : 21207366.3/24

Right Out: -0.248+/-0.000

χ^2/NDF : 30054361401.0/35

Left In: -0.226+/-0.000

χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000

χ^2/NDF : 34951372.2/47

Right: -0.243+/-0.000

χ^2/NDF : 63622291840.3/68

In: -0.231+/-0.000

χ^2/NDF : 33591714924.3/55

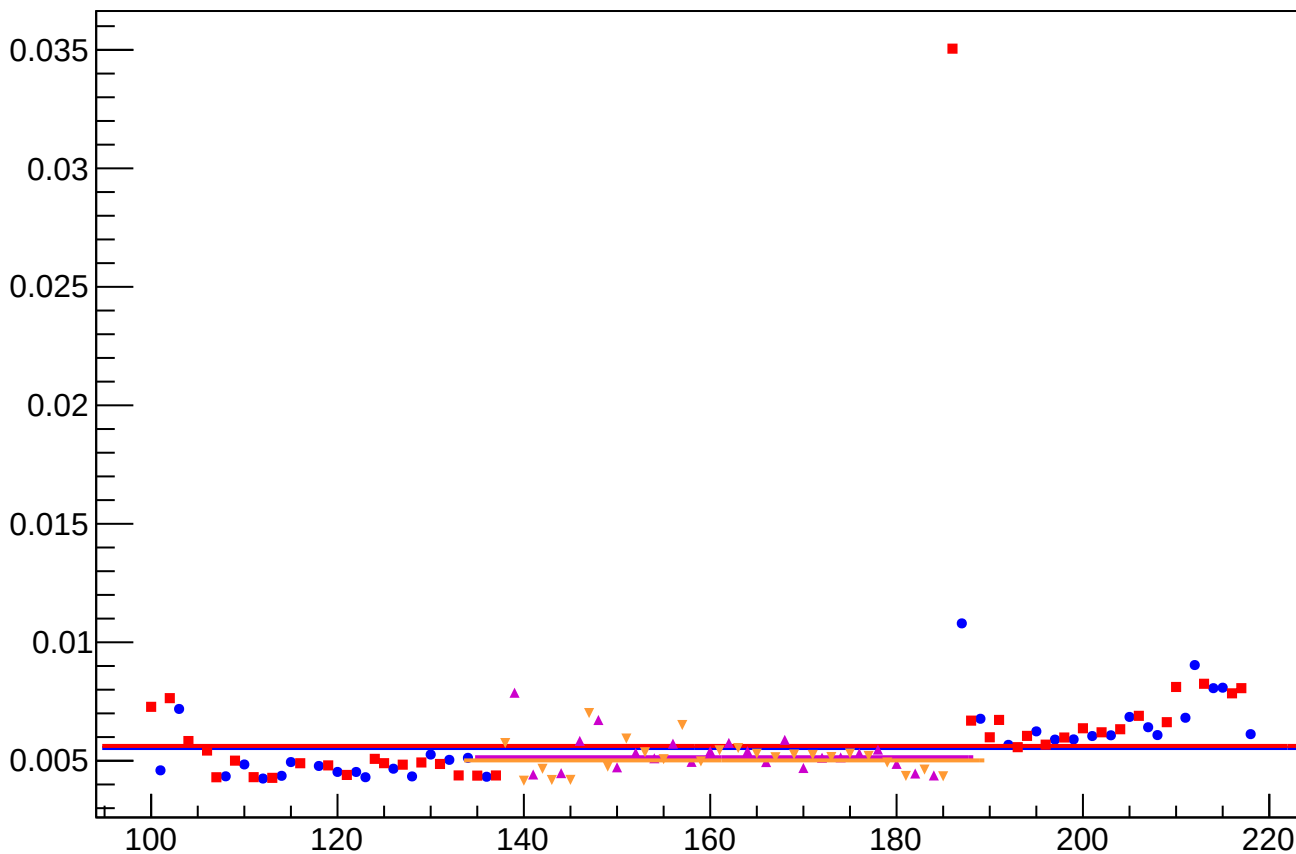
Out: -0.236+/-0.000

χ^2/NDF : 30224661947.2/60

All: -0.234+/-0.000

χ^2/NDF : 63828357992.4/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006 ± 0.000 $\chi^2/\text{NDF}: 1370155.7/32$

Left Out: 0.005 ± 0.000 $\chi^2/\text{NDF}: 532623.0/24$

Right Out: 0.006 ± 0.000 $\chi^2/\text{NDF}: 1863740.5/35$

Left In: 0.005 ± 0.000 $\chi^2/\text{NDF}: 504040.6/22$

Left: 0.005 ± 0.000 $\chi^2/\text{NDF}: 1048260.0/47$

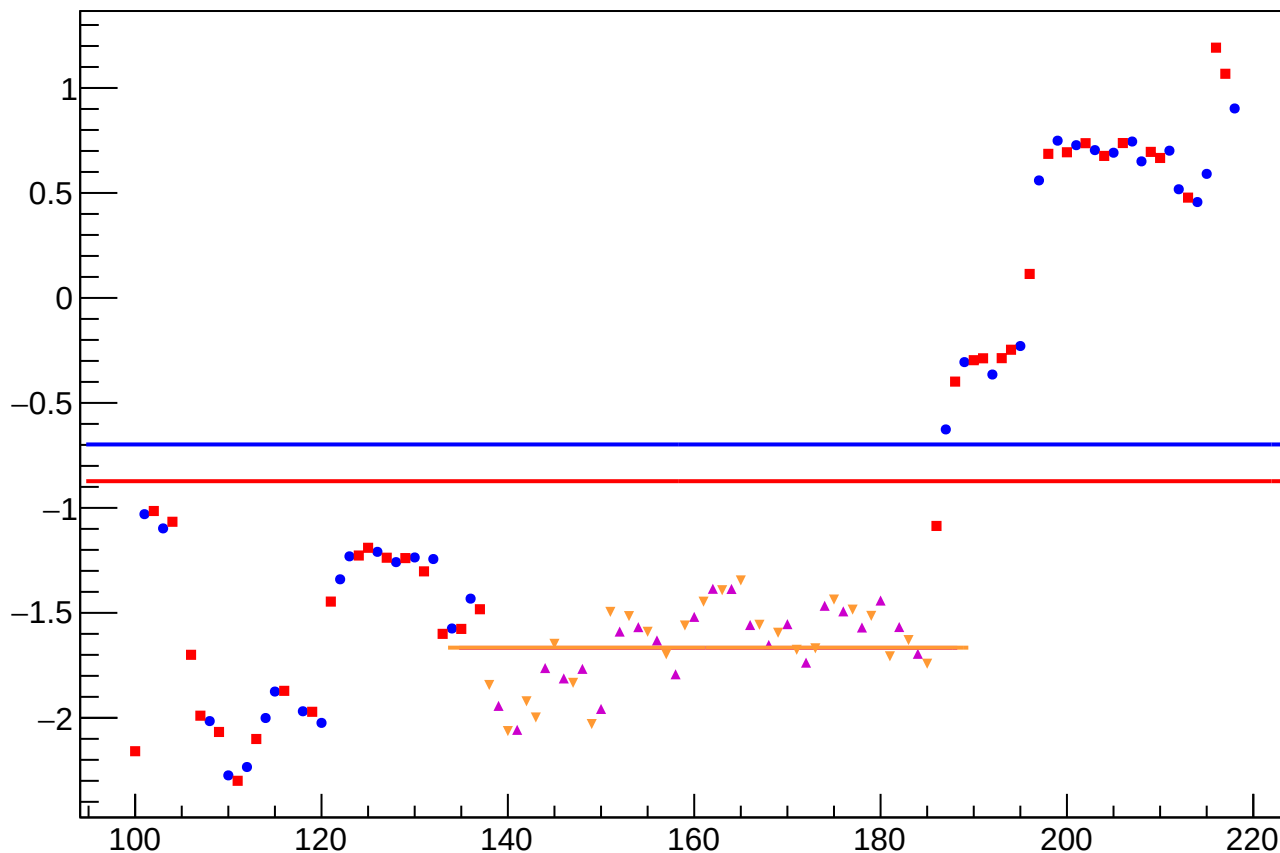
Right: 0.006 ± 0.000 $\chi^2/\text{NDF}: 3238093.6/68$

In: 0.005 ± 0.000 $\chi^2/\text{NDF}: 1960098.4/55$

Out: 0.005 ± 0.000 $\chi^2/\text{NDF}: 2618632.3/60$

All: 0.005 ± 0.000 $\chi^2/\text{NDF}: 4581357.0/116$

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.698+/-0.000

χ^2/NDF : 254208060194.6/32

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -0.790+/-0.000

χ^2/NDF : 548137478651.2/68

Right Out: -0.873+/-0.000

χ^2/NDF : 290127538479.2/35

In: -1.316+/-0.000

χ^2/NDF : 409496870463.0/55

Out: -1.369+/-0.000

χ^2/NDF : 412257686409.4/60

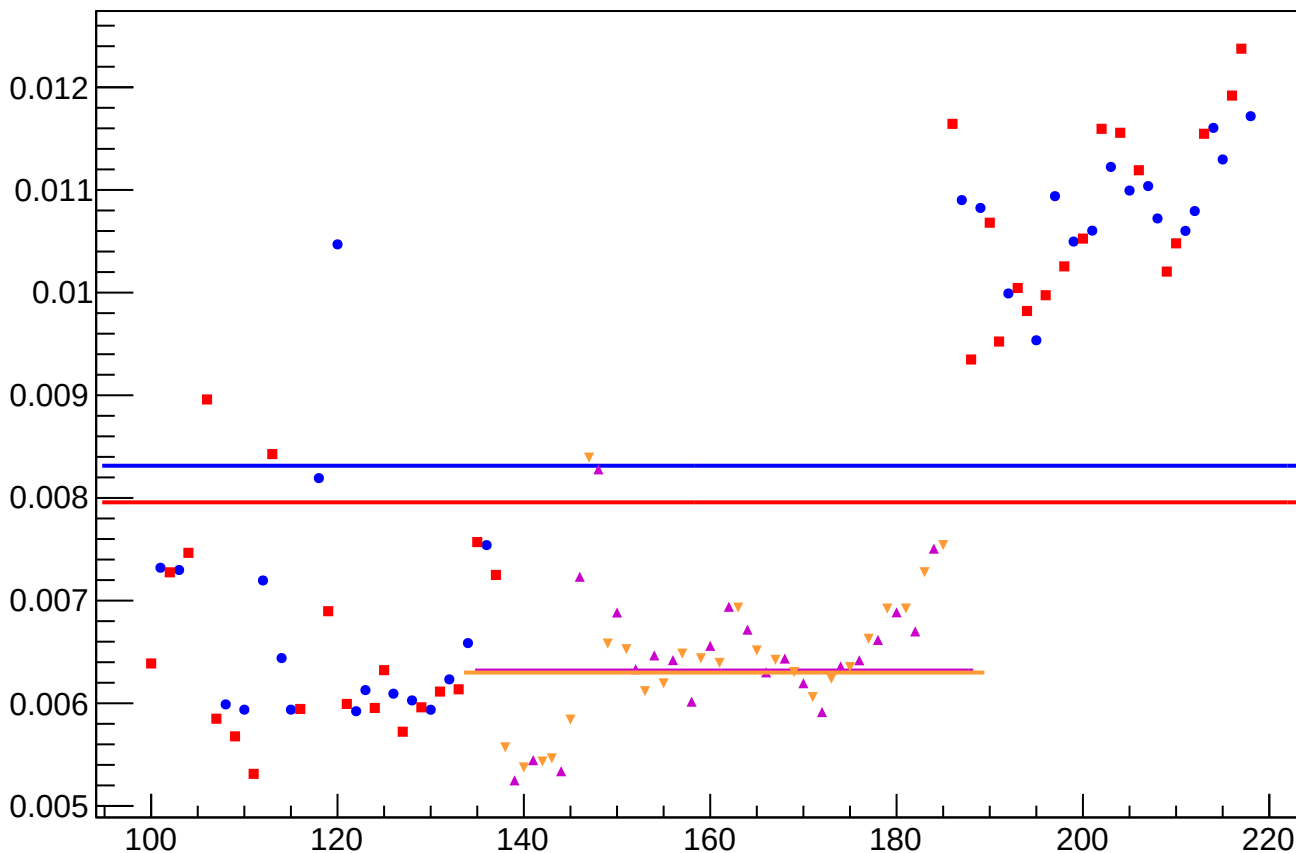
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.344+/-0.000

χ^2/NDF : 822714646479.2

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2210610.1/32

Left Out: 0.006+/-0.000 χ^2/NDF : 312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2604831.7/35

Left In: 0.006+/-0.000 χ^2/NDF : 334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

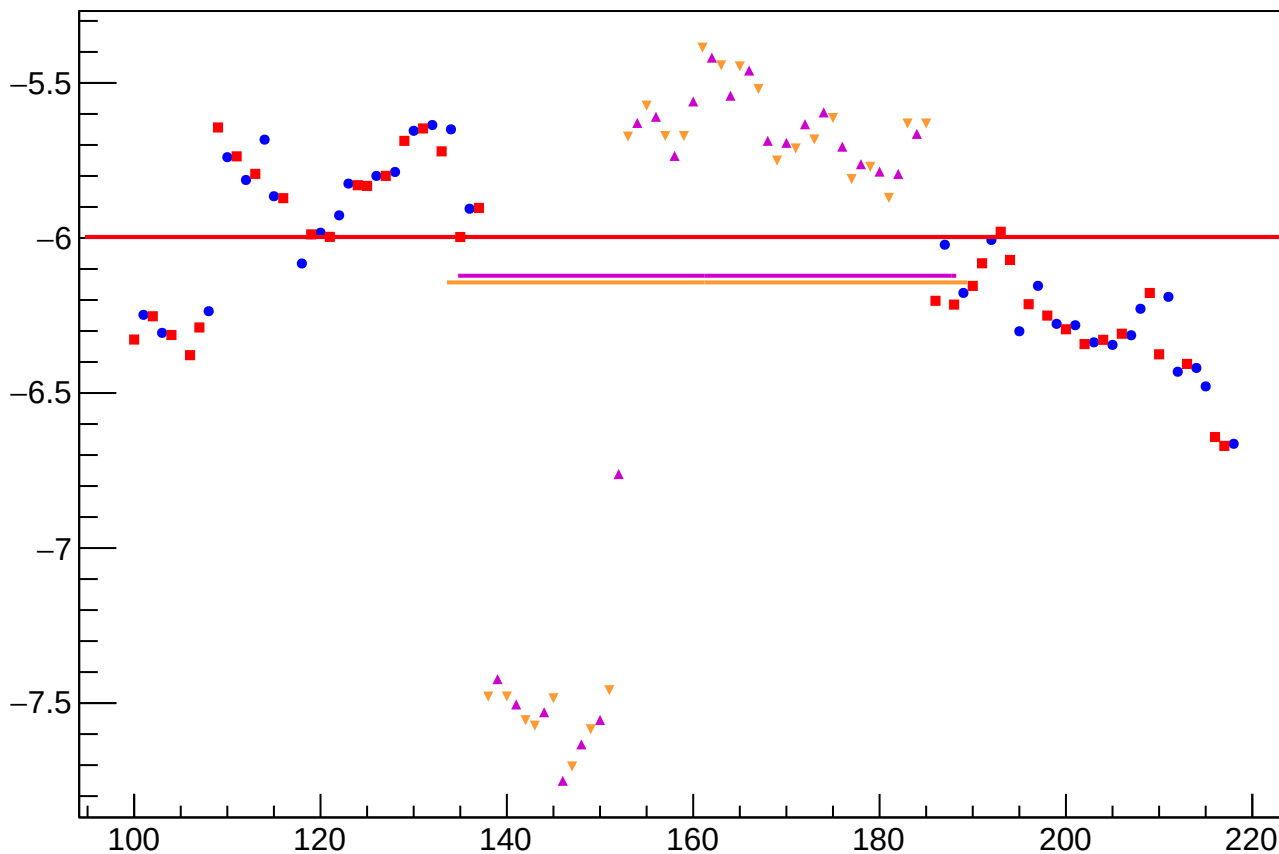
Right: 0.008+/-0.000 χ^2/NDF : 4847002.2/68

In: 0.007+/-0.000 χ^2/NDF : 3737425.1/55

Out: 0.007+/-0.000 χ^2/NDF : 3825073.3/60

All: 0.007+/-0.000 χ^2/NDF : 7572563.3/116

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.997 $\pm$ 0.000 χ^2 /NDF: 19262914798.7/32

Left Out: -6.143 $\pm$ 0.000 χ^2 /NDF: 185721259239.3/24

Right Out: -5.997 $\pm$ 0.000 χ^2 /NDF: 20728570961.0/35

Left In: -6.122 $\pm$ 0.000 χ^2 /NDF: 159909473006.6/22

Left: -6.133 $\pm$ 0.000 χ^2 /NDF: 345689393988.1/47

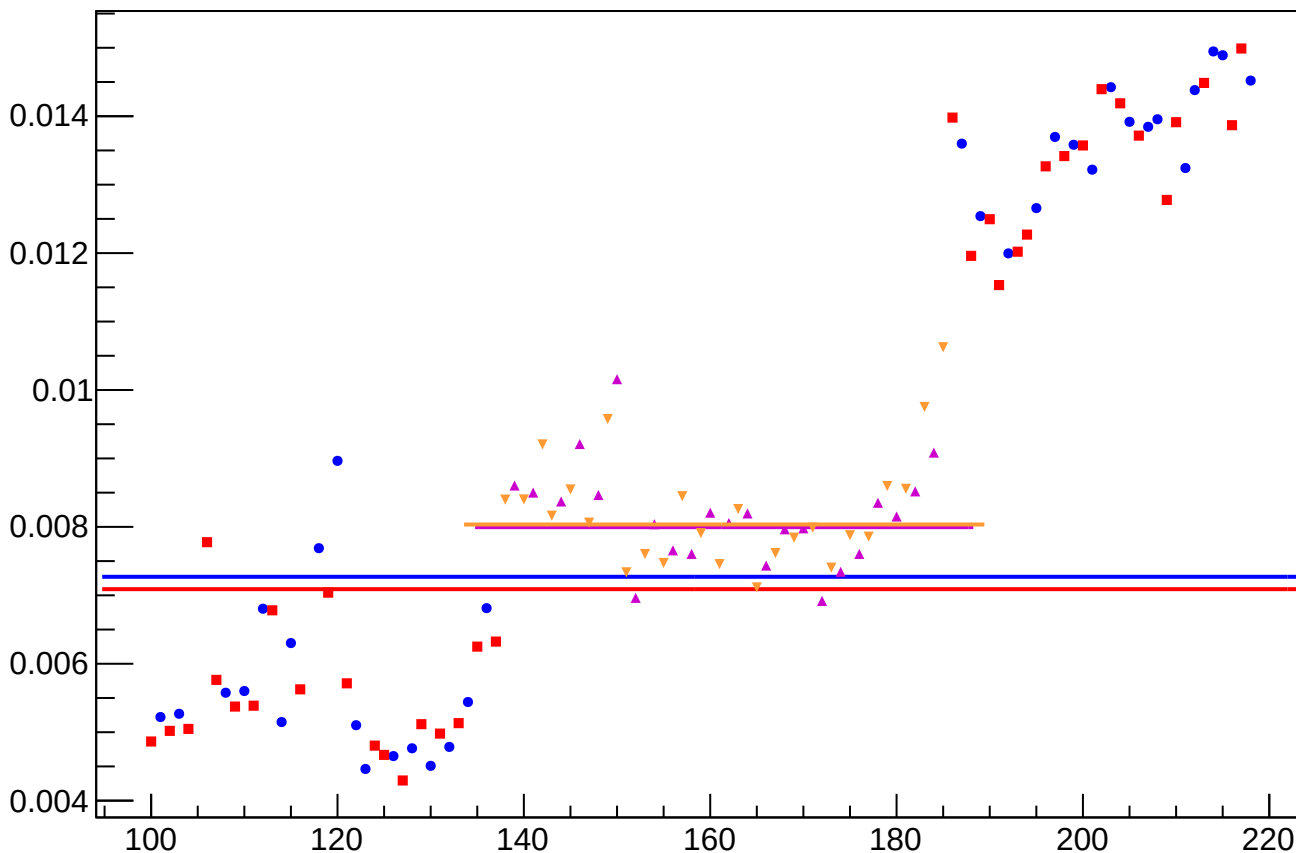
Right: -5.997 $\pm$ 0.000 χ^2 /NDF: 39991522032.1/68

In: -6.058 $\pm$ 0.000 χ^2 /NDF: 181153259030.5/55

Out: -6.066 $\pm$ 0.000 χ^2 /NDF: 209368937841.5/60

All: -6.062 $\pm$ 0.000 χ^2 /NDF: 390539603345.1

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6675960.9/32

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 6549031.6/35

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

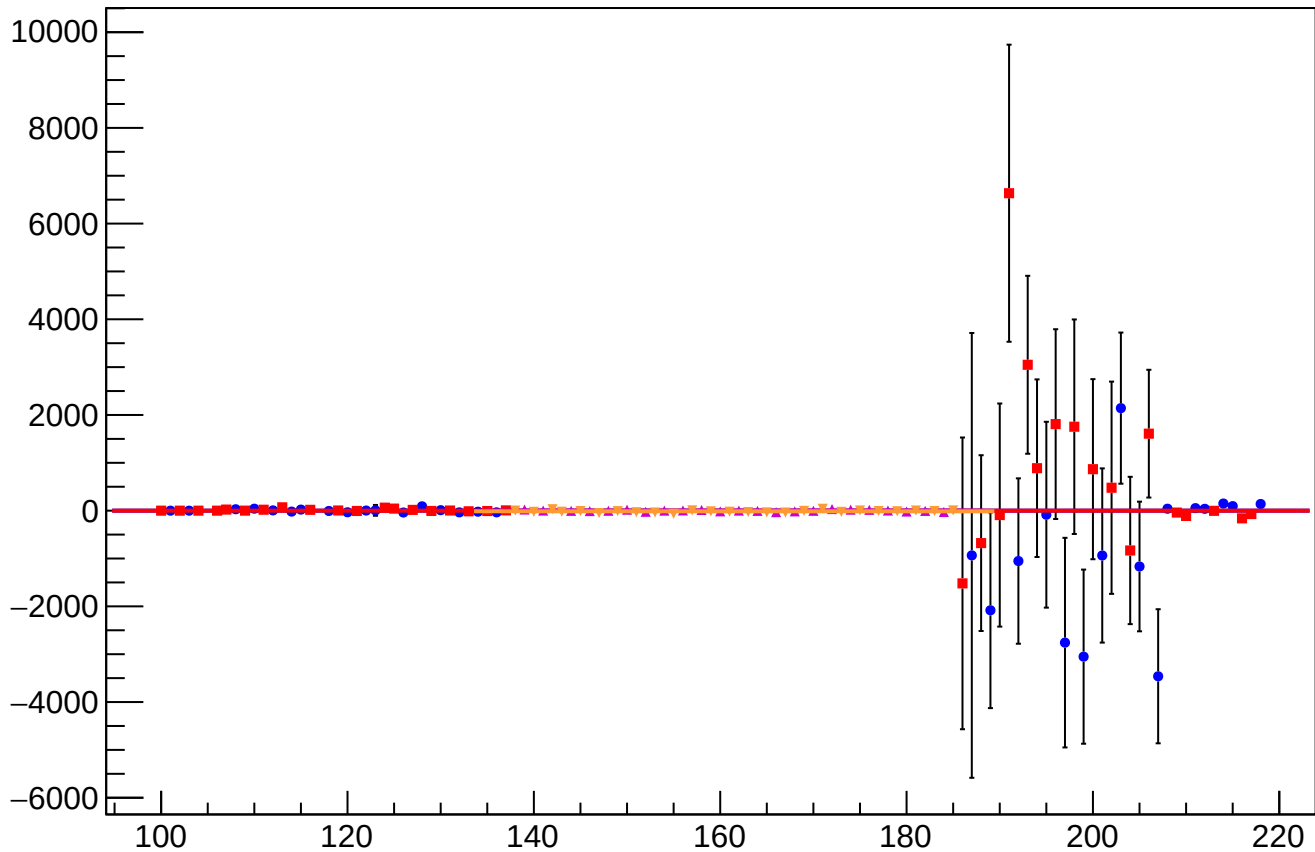
Right: 0.007+/-0.000 χ^2/NDF : 13233931.0/68

In: 0.008+/-0.000 χ^2/NDF :7030186.3/55

Out: 0.008+/-0.000 χ^2/NDF :6997104.8/60

All: 0.008+/-0.000 χ^2/NDF : 14031302.9/116

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 57.0/32$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 45.4/35$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

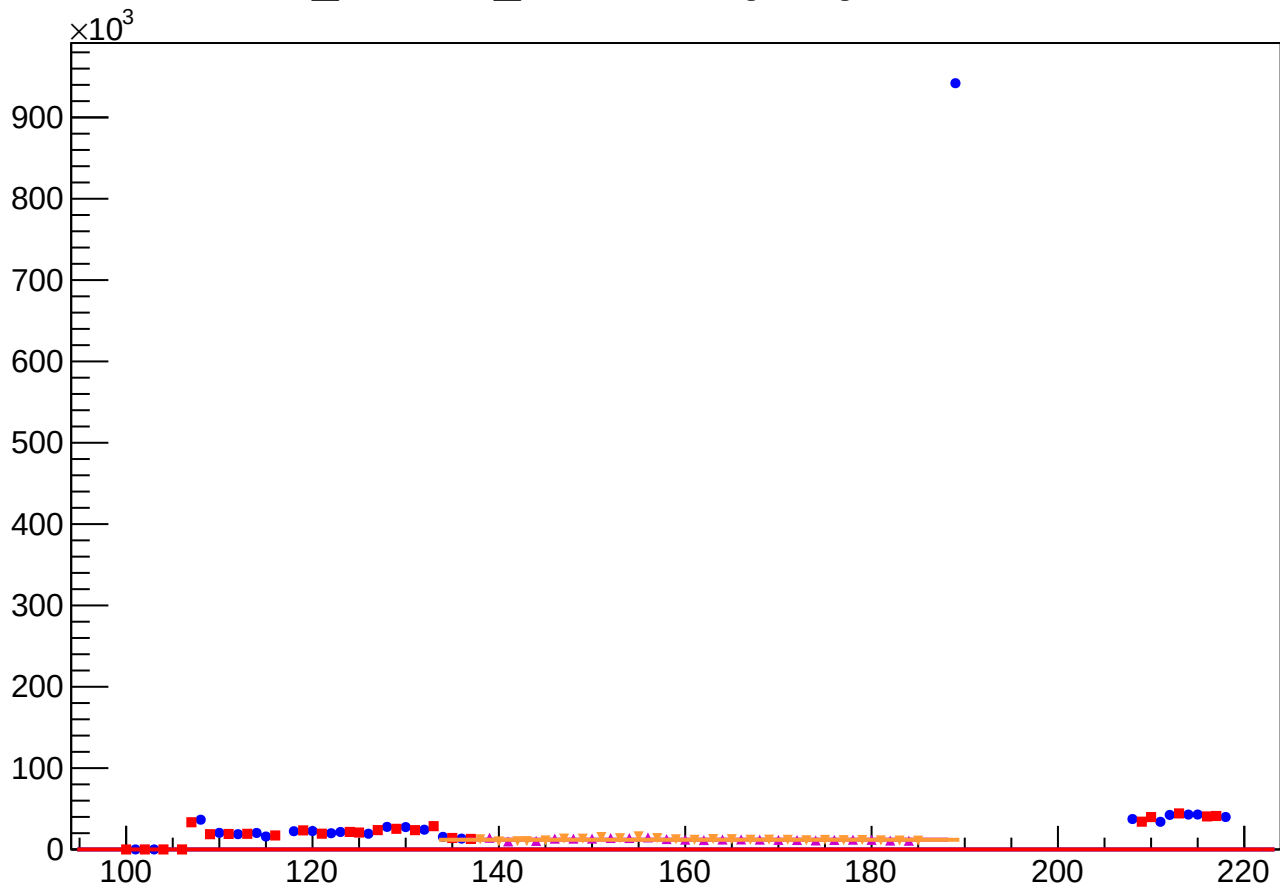
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 102.8/68$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 85.7/55$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 127.1/60$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 213.3/116$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.673+/-0.012 χ^2 /NDF: 19678367.1/23

Left Out: 11909.835+/-1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.335+/-0.011 χ^2 /NDF: 18322654.6/23

Left In: 12064.321+/-2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125+/-1.425 χ^2 /NDF: 850831.6/47

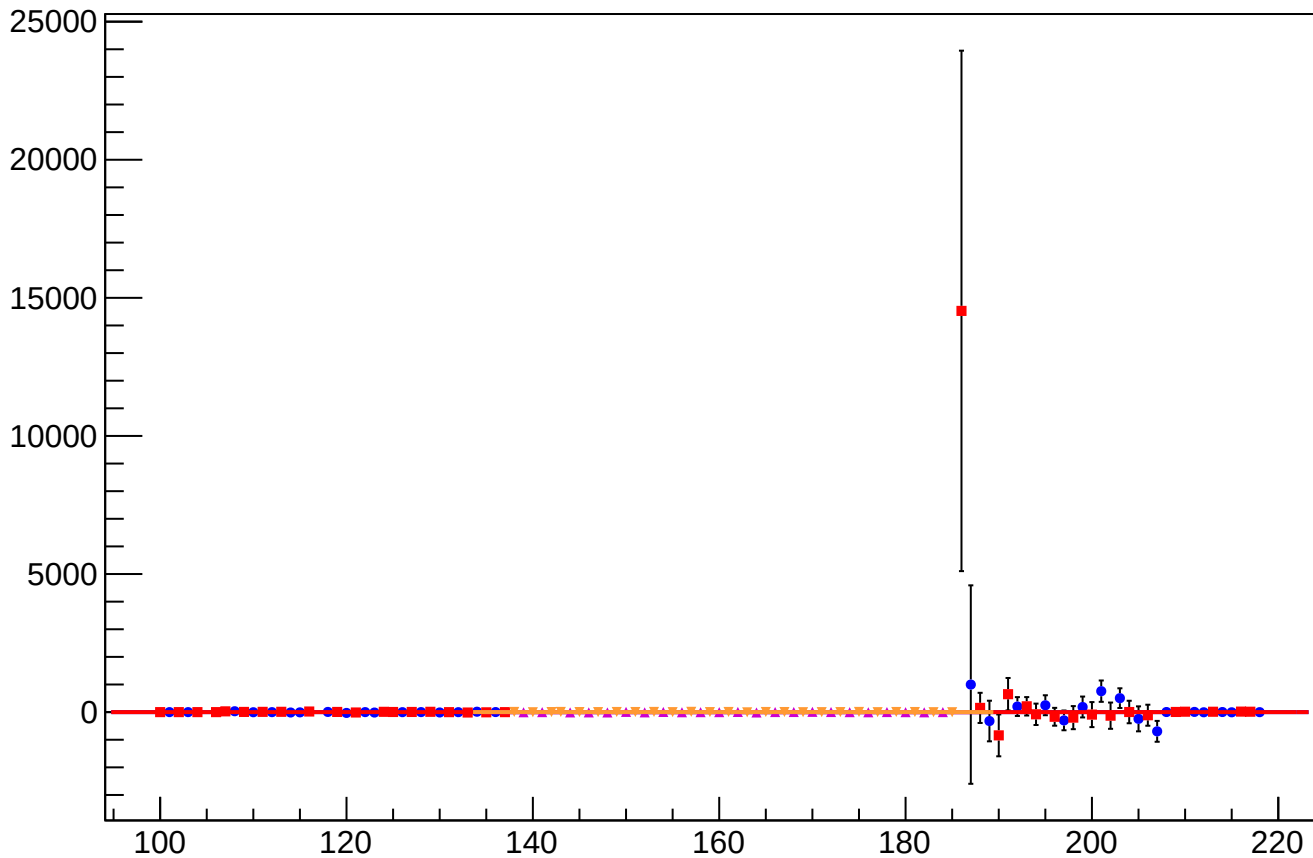
Right: 18.491+/-0.008 χ^2 /NDF: 38001432.3/47

In: 19.102+/-0.012 χ^2 /NDF: 54428671.2/46

Out: 18.727+/-0.011 χ^2 /NDF: 54964951.8/48

All: 18.901+/-0.008 χ^2 /NDF: 109394125.3/95

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 29.5/32

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF:17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 48.3/35

Left In: -0.843 $\pm$ 1.043 χ^2 /NDF:35.7/22

Left: 0.443 $\pm$ 0.730 χ^2 /NDF: 56.5/47

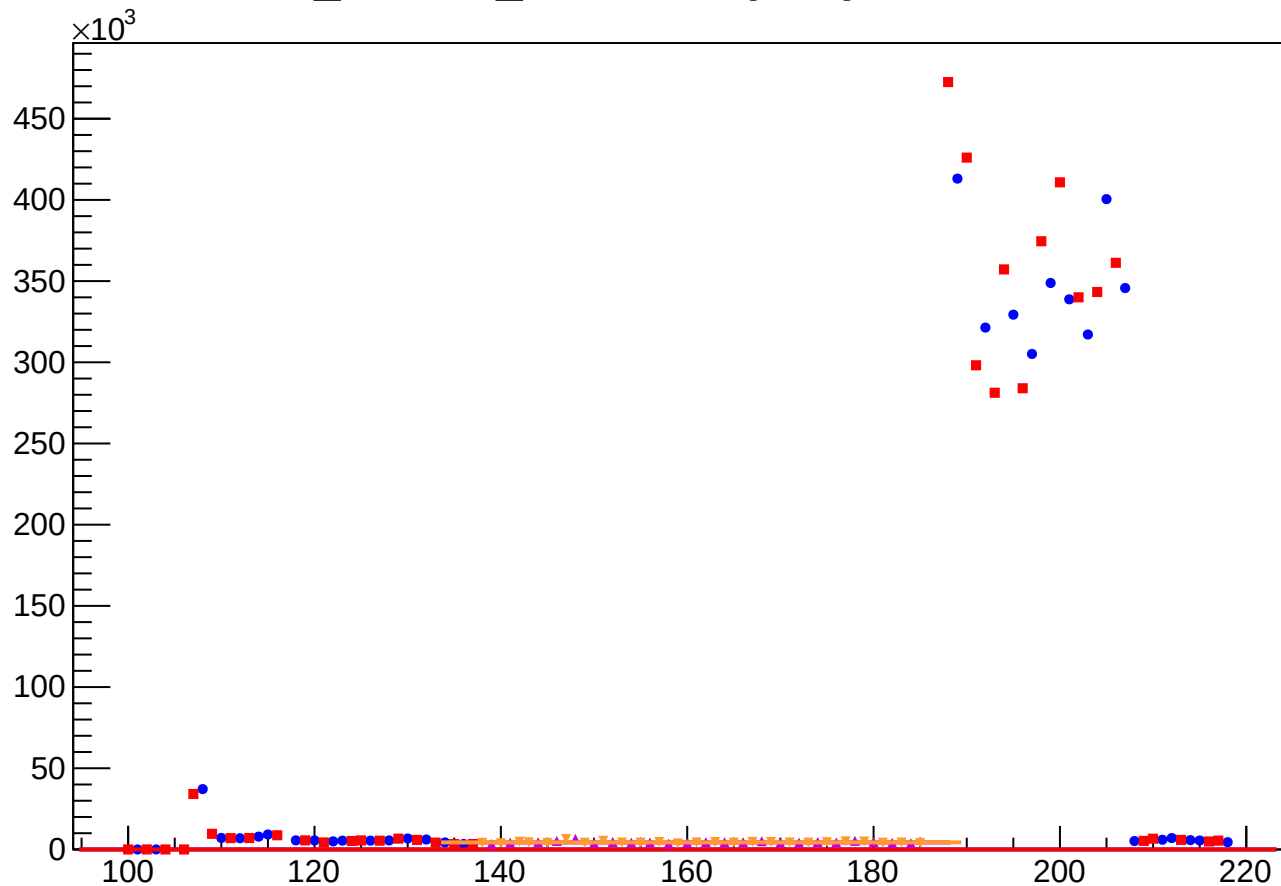
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 79.1/68

In: 0.001 $\pm$ 0.009 χ^2 /NDF:65.8/55

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:68.9/60

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 136.0/116

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 10.005 ± 0.007 χ^2/NDF : 33068899.4/31

Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24

Right Out: 9.904 ± 0.006 χ^2/NDF : 33088450.0/34

Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47

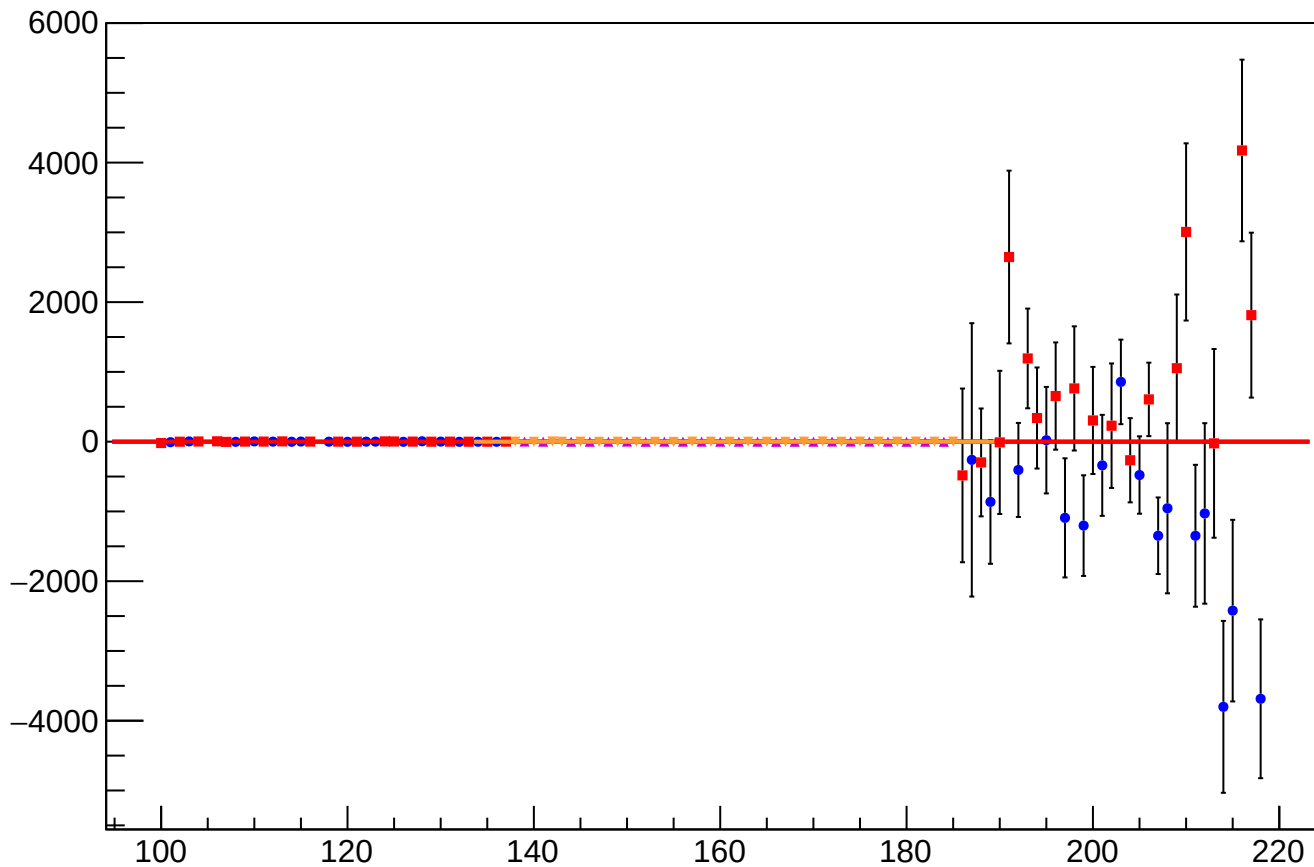
Right: 9.951 ± 0.004 χ^2/NDF : 66157477.6/66

In: 10.340 ± 0.007 χ^2/NDF : 67663867.6/54

Out: 10.215 ± 0.006 χ^2/NDF : 69617351.2/59

All: 10.274 ± 0.004 χ^2/NDF : 137281413.1/11

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.707 ± 0.485 $\chi^2/\text{NDF}: 63.7/32$

Left Out: -0.774 ± 0.164 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.764 ± 0.502 $\chi^2/\text{NDF}: 42.0/35$

Left In: 0.020 ± 0.170 $\chi^2/\text{NDF}: 29.2/22$

Left: -0.391 ± 0.118 $\chi^2/\text{NDF}: 98.9/47$

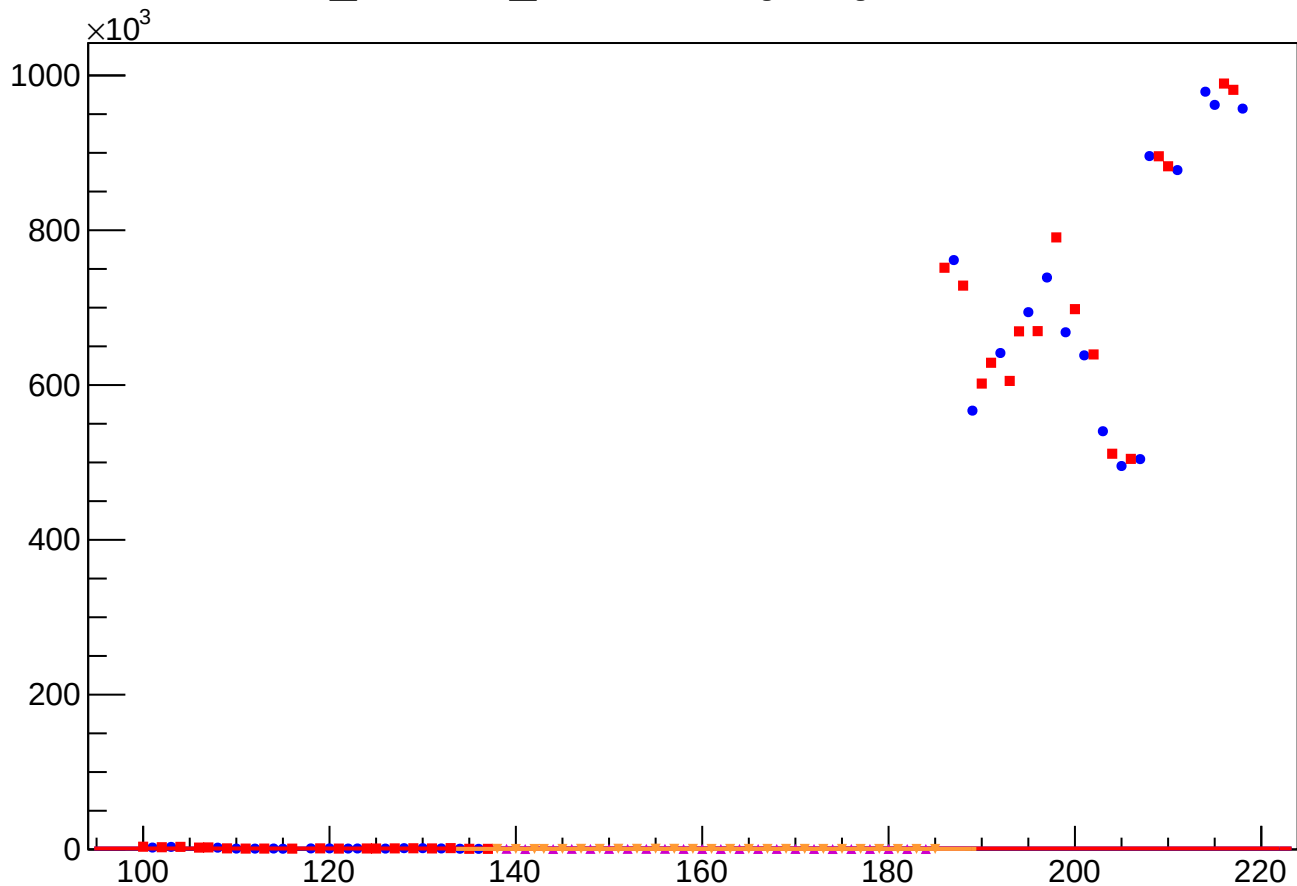
Right: 0.003 ± 0.349 $\chi^2/\text{NDF}: 110.2/68$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 94.9/55$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 108.9/60$

All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 210.2/116$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.405+/-0.343 χ^2/NDF : 19026450.6/31

Left Out: 700.797+/-0.116 χ^2/NDF : 392521.4/24

Right Out: 1252.656+/-0.355 χ^2/NDF : 19238469.7/34

Left In: 706.950+/-0.120 χ^2/NDF : 338177.1/22

Left: 703.766+/-0.084 χ^2/NDF : 732052.1/47

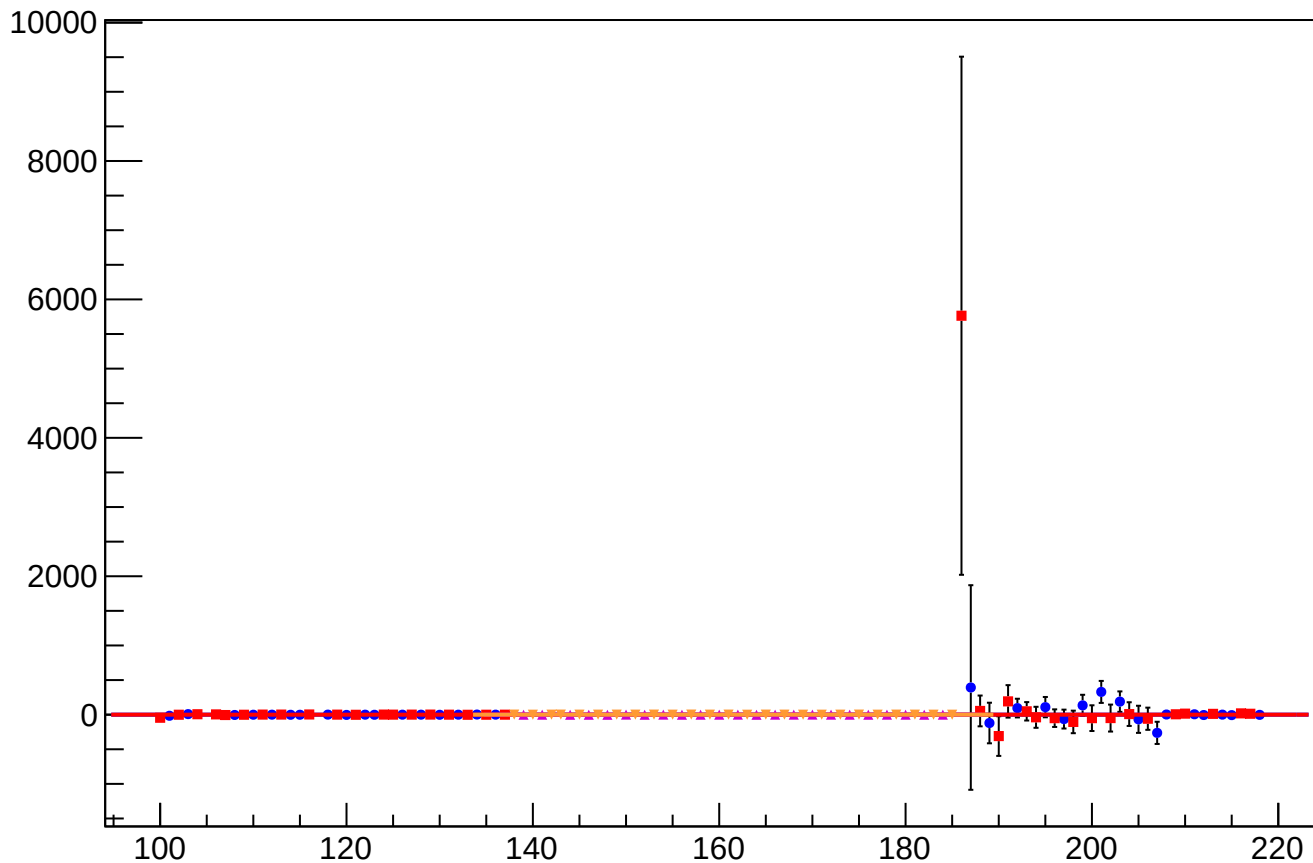
Right: 1208.556+/-0.247 χ^2/NDF : 38294746.8/66

In: 757.394+/-0.114 χ^2/NDF : 20969749.2/54

Out: 754.175+/-0.110 χ^2/NDF : 21813417.4/59

All: 755.740+/-0.079 χ^2/NDF : 42783579.8/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.072 ± 0.268 χ^2/NDF : 35.5/32

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.093 ± 0.263 χ^2/NDF : 57.3/35

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

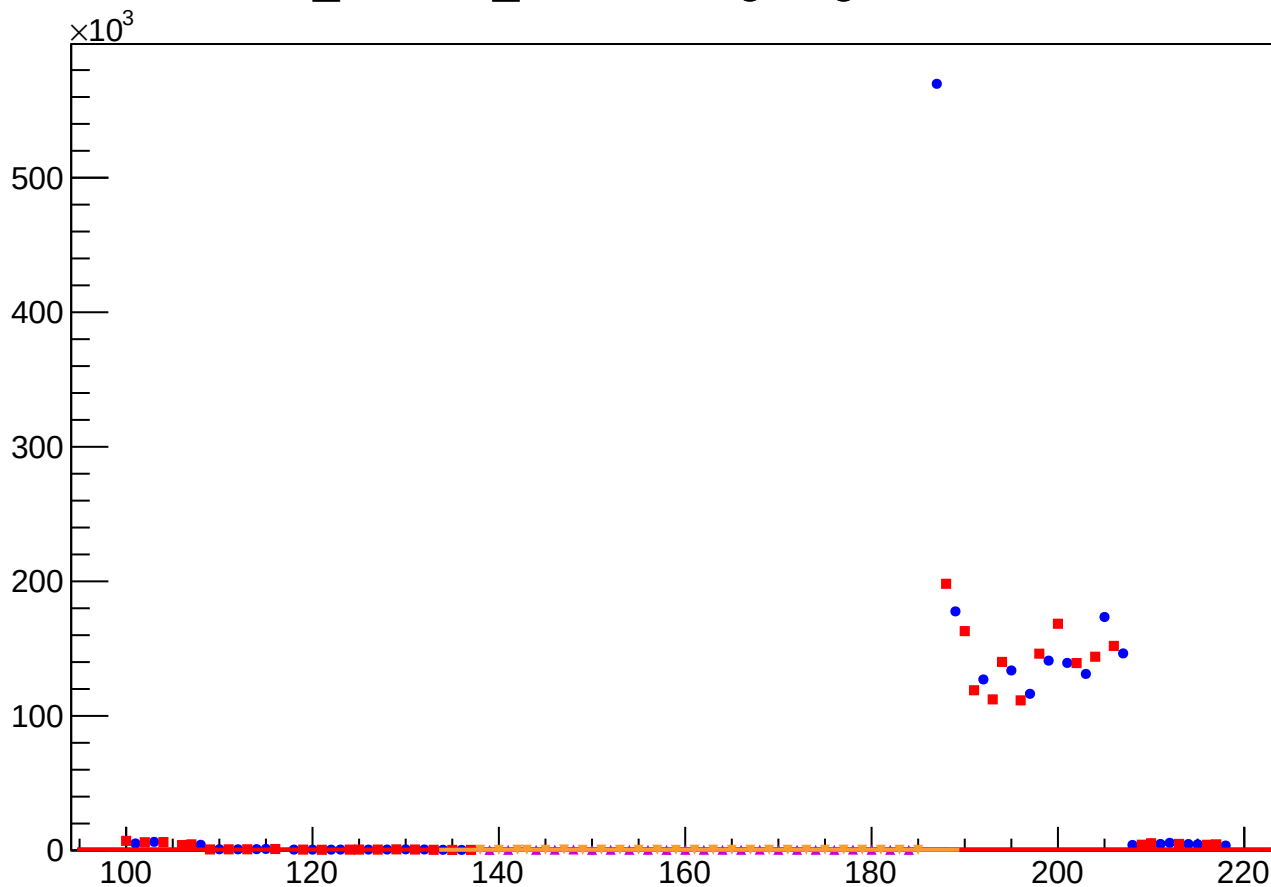
Right: -0.083 ± 0.188 χ^2/NDF : 92.7/68

In: -0.108 ± 0.114 χ^2/NDF : 70.5/55

Out: 0.178 ± 0.111 χ^2/NDF : 76.1/60

All: 0.038 ± 0.079 χ^2/NDF : 149.8/116

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 671.433 $\pm$ 0.190 χ^2/NDF : 23316874.0/32

Left Out: 522.416 $\pm$ 0.087 χ^2/NDF : 331573.1/24

Right Out: 650.499 $\pm$ 0.186 χ^2/NDF : 23731854.9/34

Left In: 519.909 $\pm$ 0.089 χ^2/NDF : 444746.3/22

Left: 521.193 $\pm$ 0.062 χ^2/NDF : 776728.3/47

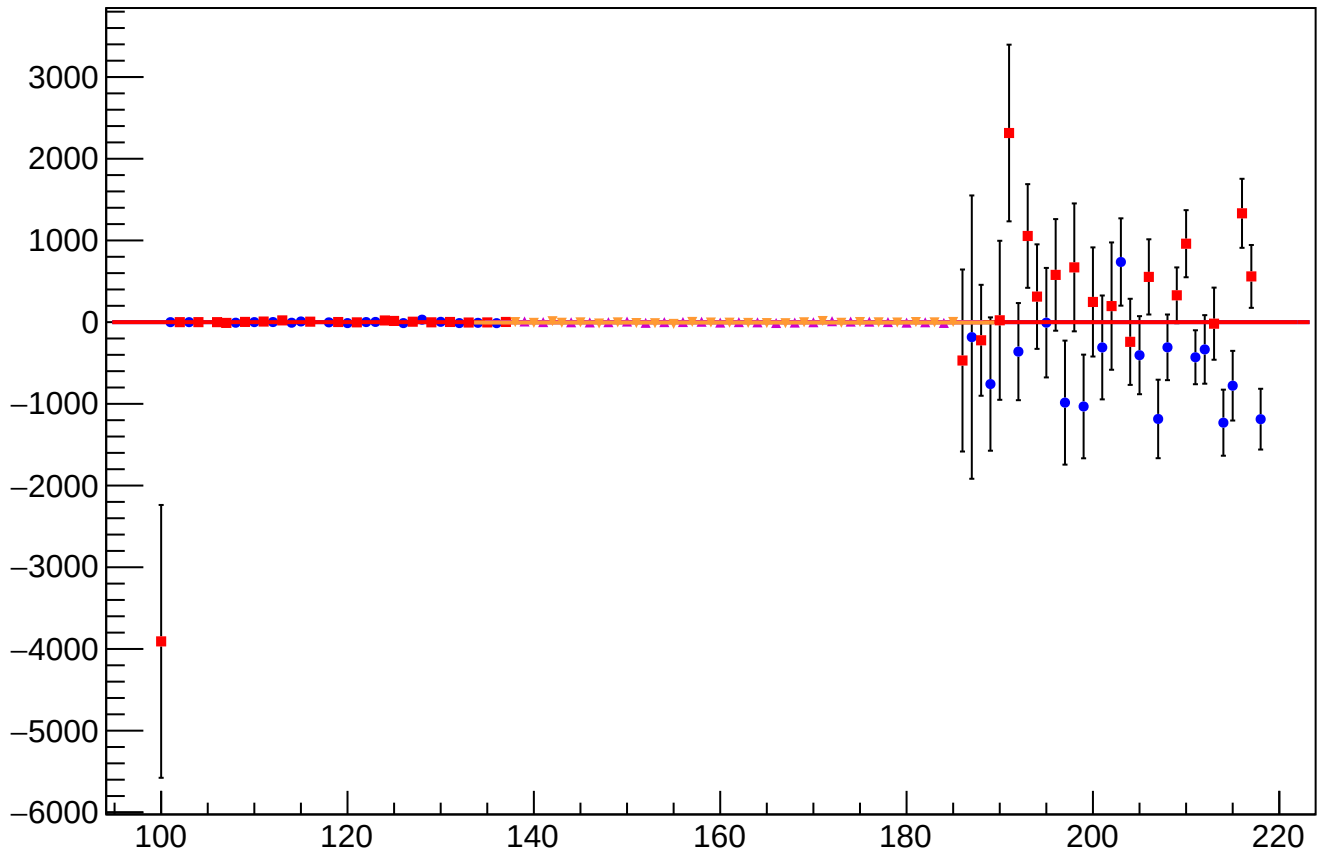
Right: 660.762 $\pm$ 0.133 χ^2/NDF : 47054928.5/67

In: 547.085 $\pm$ 0.080 χ^2/NDF : 24284544.5/55

Out: 545.206 $\pm$ 0.079 χ^2/NDF : 24452574.4/59

All: 546.123 $\pm$ 0.056 χ^2/NDF : 48737398.3/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 55.8/32

Left Out: -4.474 ± 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 46.4/35

Left In: 0.193 ± 0.990 χ^2/NDF : 29.2/22

Left: -2.224 ± 0.688 χ^2/NDF : 99.0/47

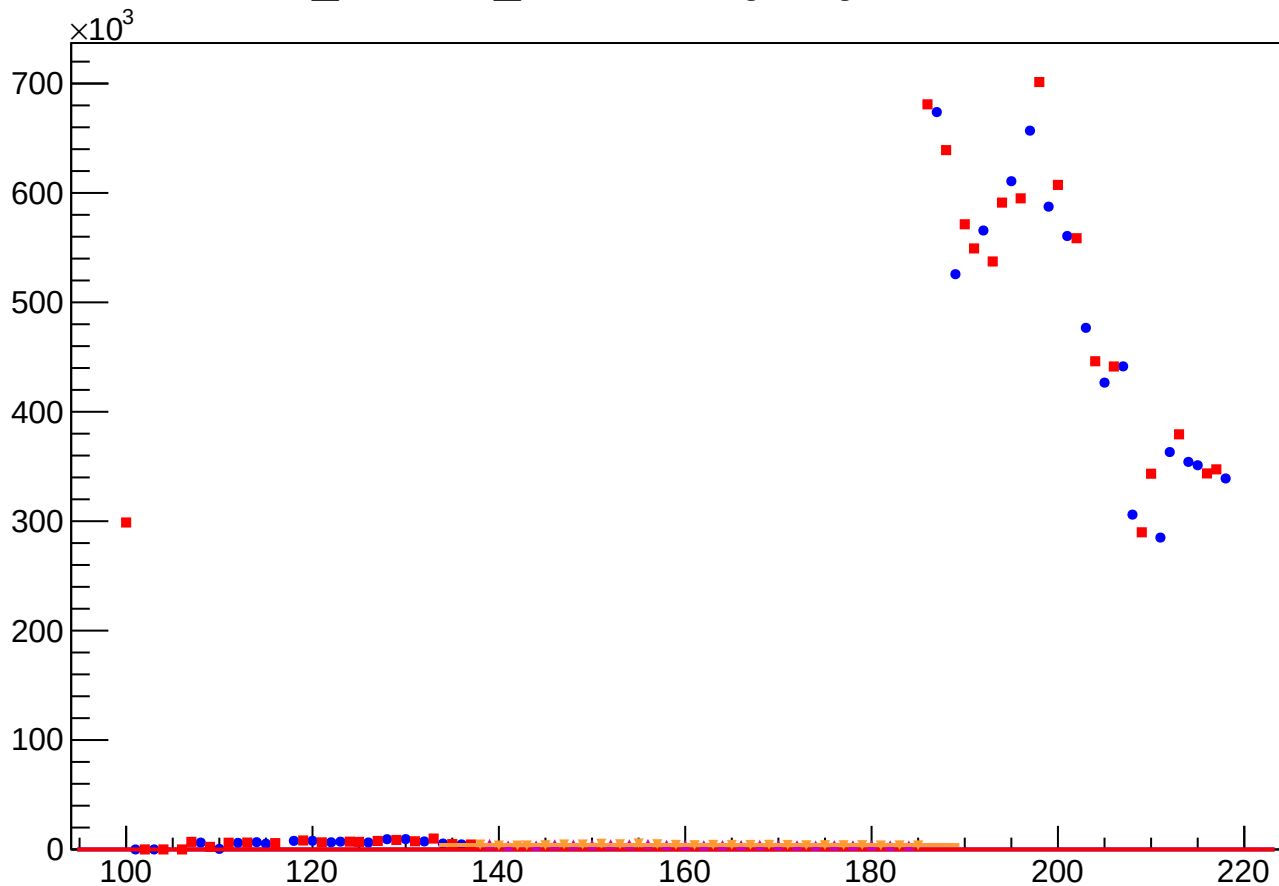
Right: 0.004 ± 0.014 χ^2/NDF : 105.1/68

In: -0.022 ± 0.021 χ^2/NDF : 85.1/55

Out: 0.025 ± 0.020 χ^2/NDF : 126.8/60

All: 0.003 ± 0.014 χ^2/NDF : 214.6/116

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.347 $\pm$ 0.015 χ^2 /NDF: 33266045.6/32

Left Out: 4074.257 $\pm$ 0.676 χ^2 /NDF:416916.0/24

Right Out: 17.277 $\pm$ 0.014 χ^2 /NDF: 33956116.4/35

Left In: 4113.744 $\pm$ 0.700 χ^2 /NDF:354965.8/22

Left: 4093.298 $\pm$ 0.486 χ^2 /NDF: 773528.6/47

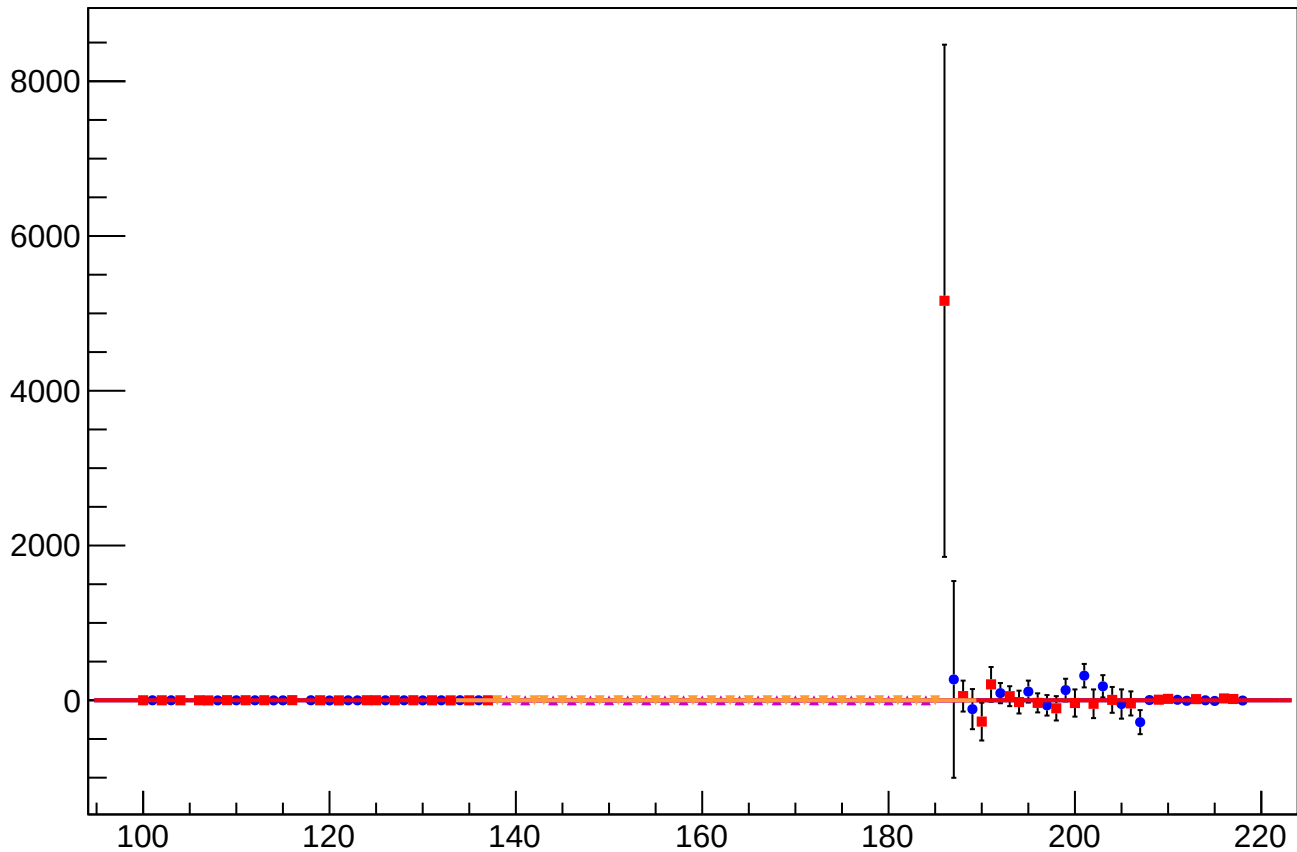
Right: 17.310 $\pm$ 0.010 χ^2 /NDF: 67222174.0/68

In: 19.153 $\pm$ 0.015 χ^2 /NDF:67835102.4/55

Out: 19.014 $\pm$ 0.014 χ^2 /NDF:70408938.9/60

All: 19.080 $\pm$ 0.010 χ^2 /NDF: 138244088.2/11

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 30.7/32

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 57.4/35

Left In: -0.075 $\pm$ 0.078 χ^2 /NDF:34.8/22

Left: 0.041 $\pm$ 0.055 χ^2 /NDF: 55.8/47

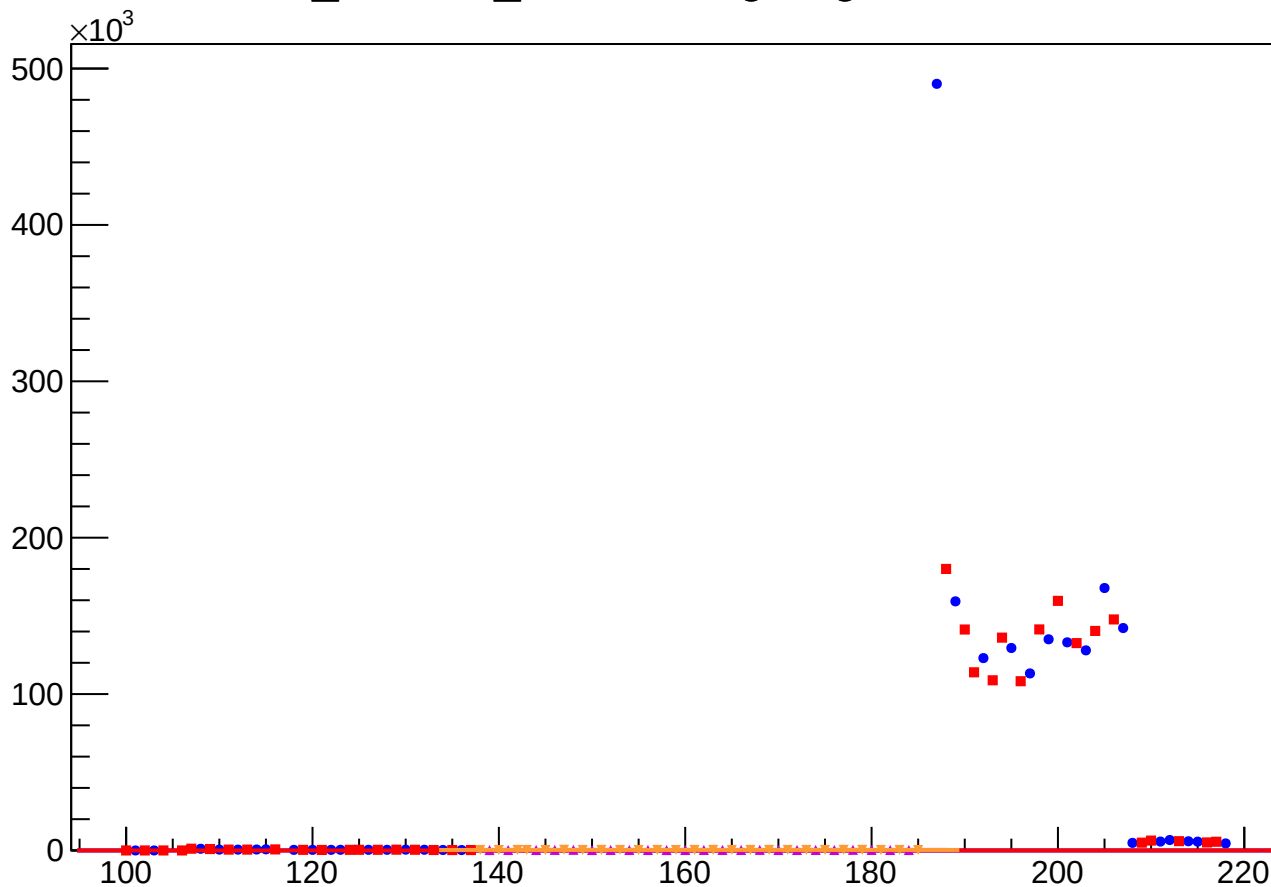
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 88.3/68

In: 0.000 $\pm$ 0.002 χ^2 /NDF:66.4/55

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:78.2/60

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 144.7/116

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.702 $\pm$ 0.001 χ^2 /NDF: 33462675.7/32

Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF: 350046.8/24

Right Out: 1.731 $\pm$ 0.001 χ^2 /NDF: 32886055.5/34

Left In: 325.201 $\pm$ 0.055 χ^2 /NDF: 428069.7/22

Left: 325.339 $\pm$ 0.039 χ^2 /NDF: 778128.6/47

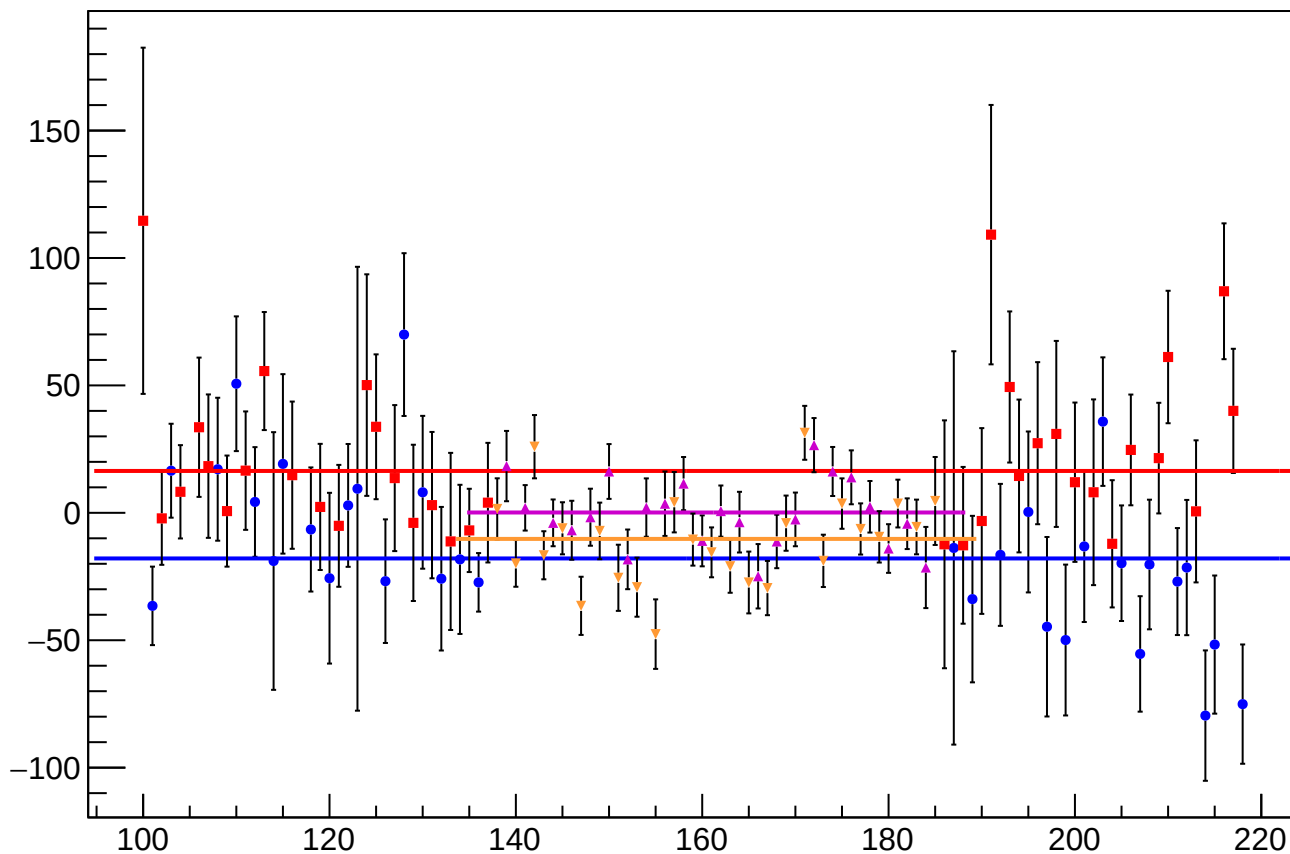
Right: 1.717 $\pm$ 0.001 χ^2 /NDF: 66348946.2/67

In: 1.917 $\pm$ 0.001 χ^2 /NDF: 67865418.2/55

Out: 1.940 $\pm$ 0.001 χ^2 /NDF: 69193319.5/59

All: 1.929 $\pm$ 0.001 χ^2 /NDF: 137058866.4/115

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -17.905 $\pm$ 4.330 χ^2/NDF : 48.9/32

Left Out: -10.235 $\pm$ 2.167 χ^2/NDF : 58.0/24

Right Out: 16.430 $\pm$ 4.430 χ^2/NDF : 32.0/35

Left In: 0.130 $\pm$ 2.242 χ^2/NDF : 29.8/22

Left: -5.230 $\pm$ 1.558 χ^2/NDF : 98.9/47

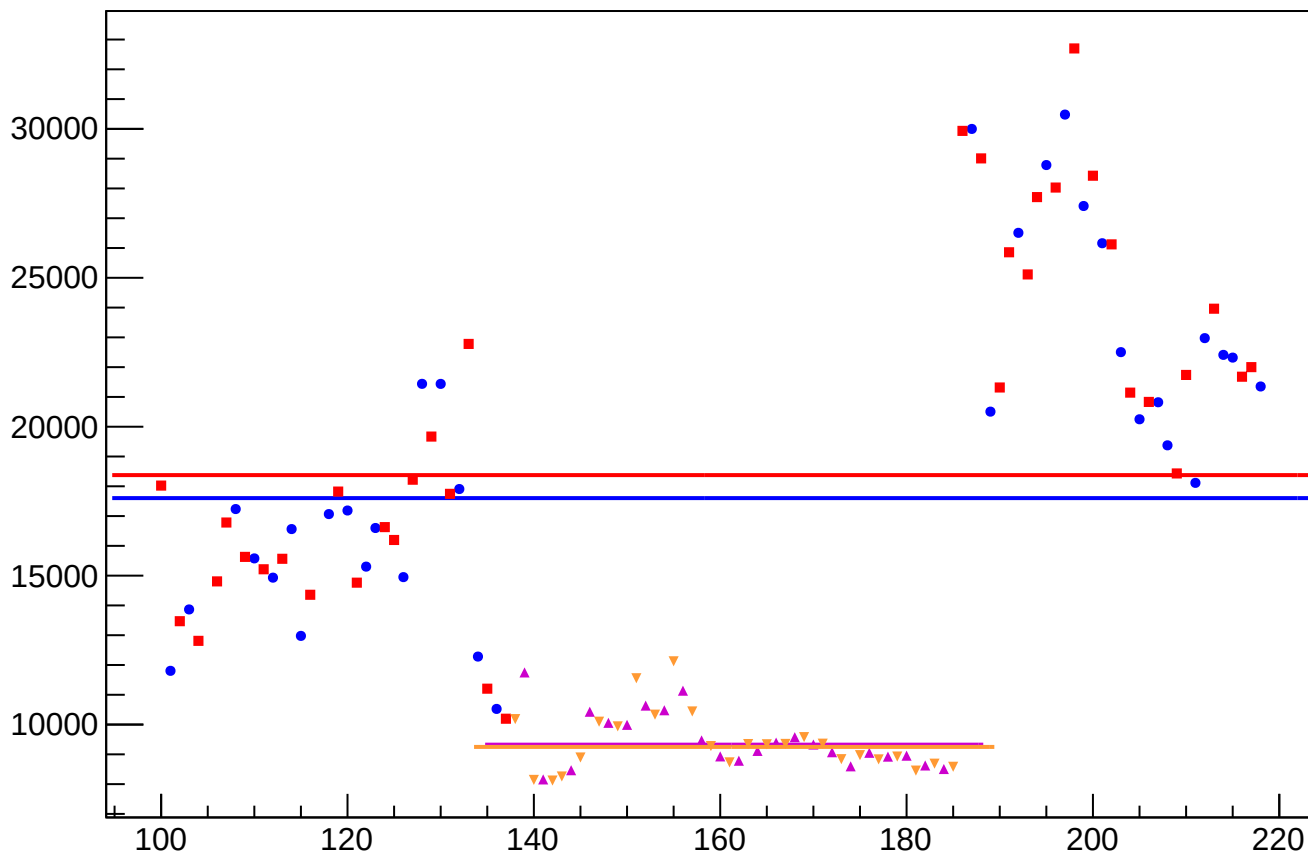
Right: -1.132 $\pm$ 3.096 χ^2/NDF : 111.6/68

In: -3.684 $\pm$ 1.991 χ^2/NDF : 92.4/55

Out: -5.088 $\pm$ 1.946 χ^2/NDF : 119.2/60

All: -4.402 $\pm$ 1.392 χ^2/NDF : 211.9/116

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17603.291+/-3.061

χ^2/NDF : 2969596.5/32

Left Out: 9249.358+/-1.532

χ^2/NDF : 332003.4/24

Right Out: 18375.508+/-3.133

χ^2/NDF : 2967300.7/35

Left In: 9325.112+/-1.585

χ^2/NDF : 280927.7/22

Left: 9285.937+/-1.102 χ^2/NDF : 614111.7/47

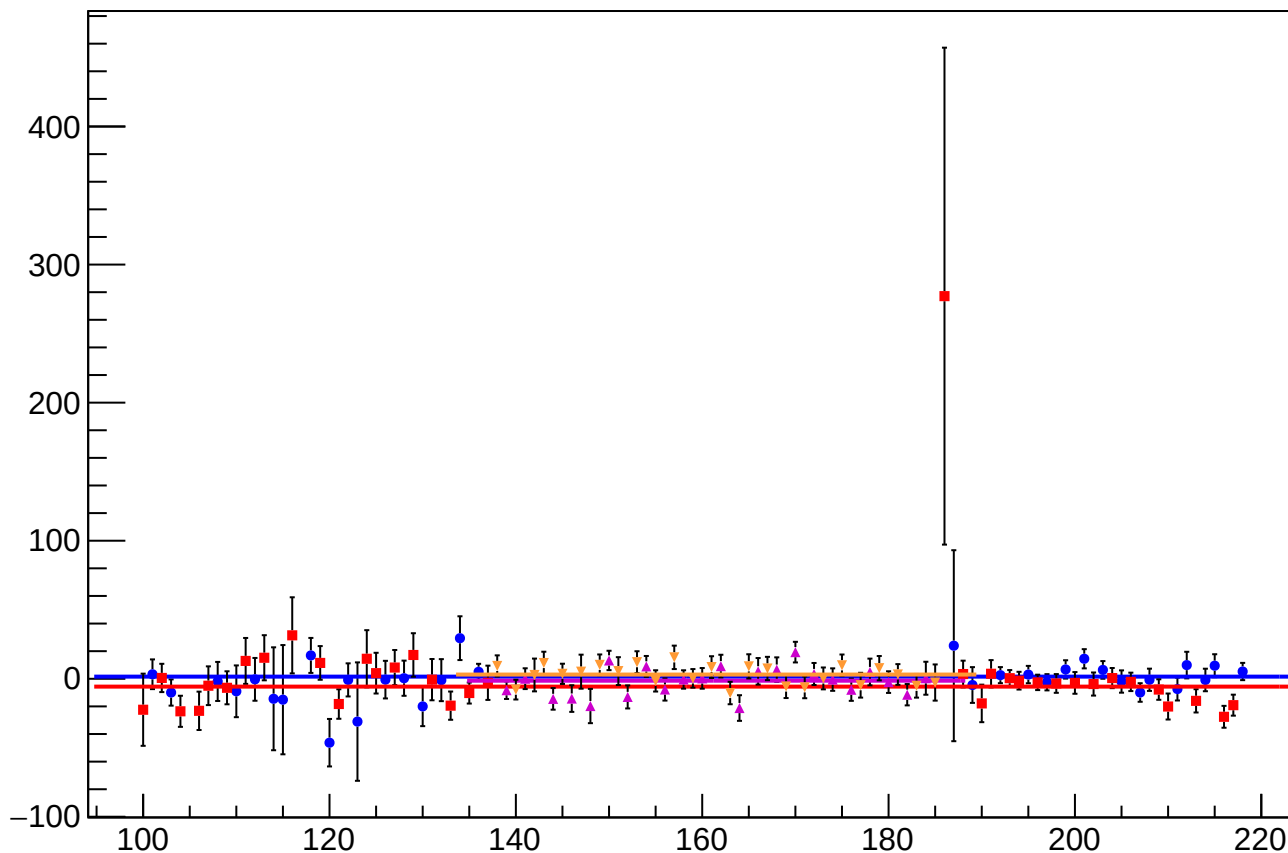
Right: 17980.526+/-2.190 χ^2/NDF : 5967977.9/68

In: 11075.799+/-1.408 χ^2/NDF : 9015816.7/55

Out: 11010.822+/-1.376 χ^2/NDF : 10148137.3/60

All: 11042.573+/-0.984 χ^2/NDF : 19165043.3

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.565 ± 1.590 $\chi^2/\text{NDF}: 29.9/32$

Left Out: 3.062 ± 1.659 $\chi^2/\text{NDF}: 18.3/24$

Right Out: -5.672 ± 1.587 $\chi^2/\text{NDF}: 42.8/35$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

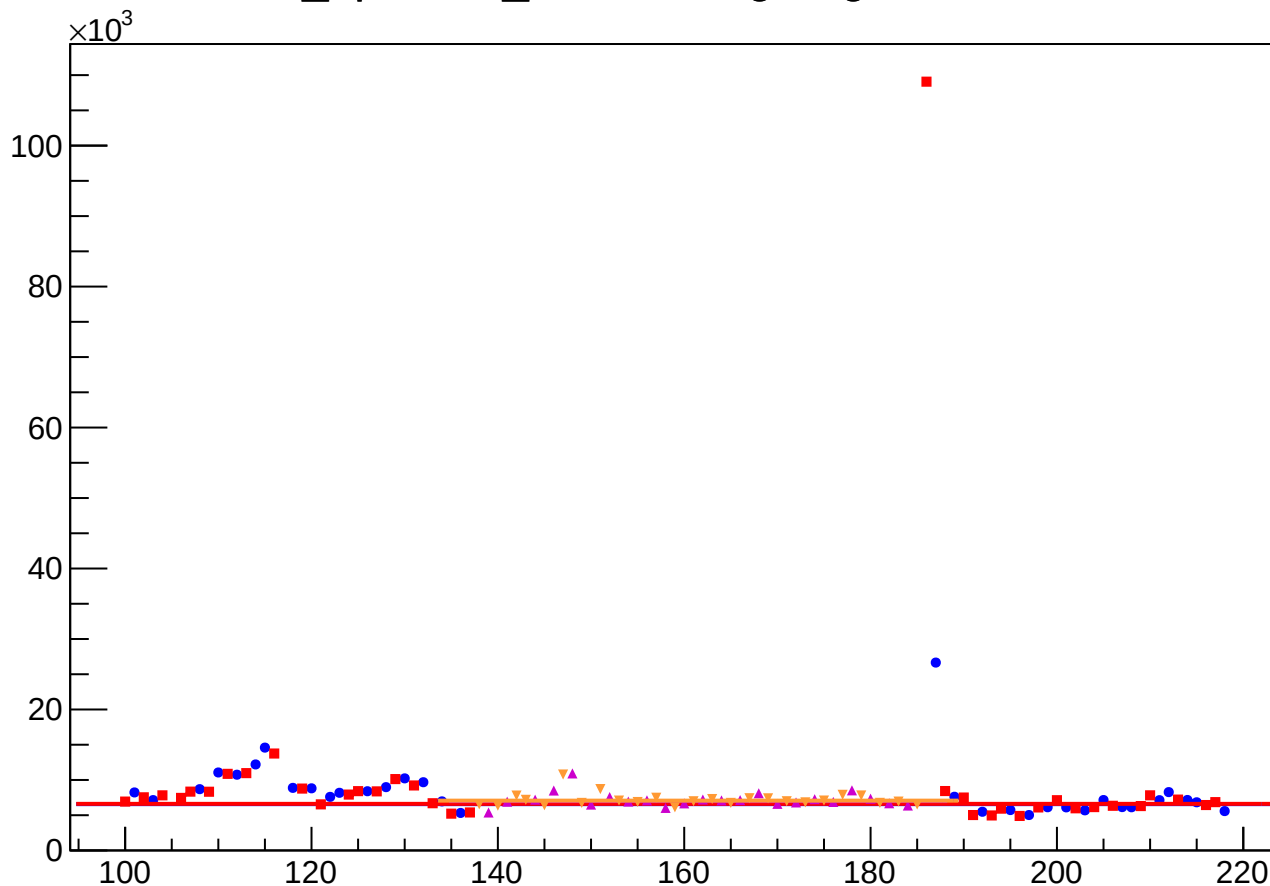
Right: -2.060 ± 1.123 $\chi^2/\text{NDF}: 83.1/68$

In: 0.178 ± 1.159 $\chi^2/\text{NDF}: 66.9/55$

Out: -1.499 ± 1.147 $\chi^2/\text{NDF}: 75.6/60$

All: -0.669 ± 0.815 $\chi^2/\text{NDF}: 143.5/116$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6569.898 ± 1.124 $\chi^2/\text{NDF}: 1660628.7/32$

Left Out: 7066.826 ± 1.173 $\chi^2/\text{NDF}: 387449.8/24$

Right Out: 6610.916 ± 1.122 $\chi^2/\text{NDF}: 2153654.9/35$

Left In: 7000.532 ± 1.197 $\chi^2/\text{NDF}: 550029.3/22$

Left: 7034.358 ± 0.838 $\chi^2/\text{NDF}: 939043.5/47$

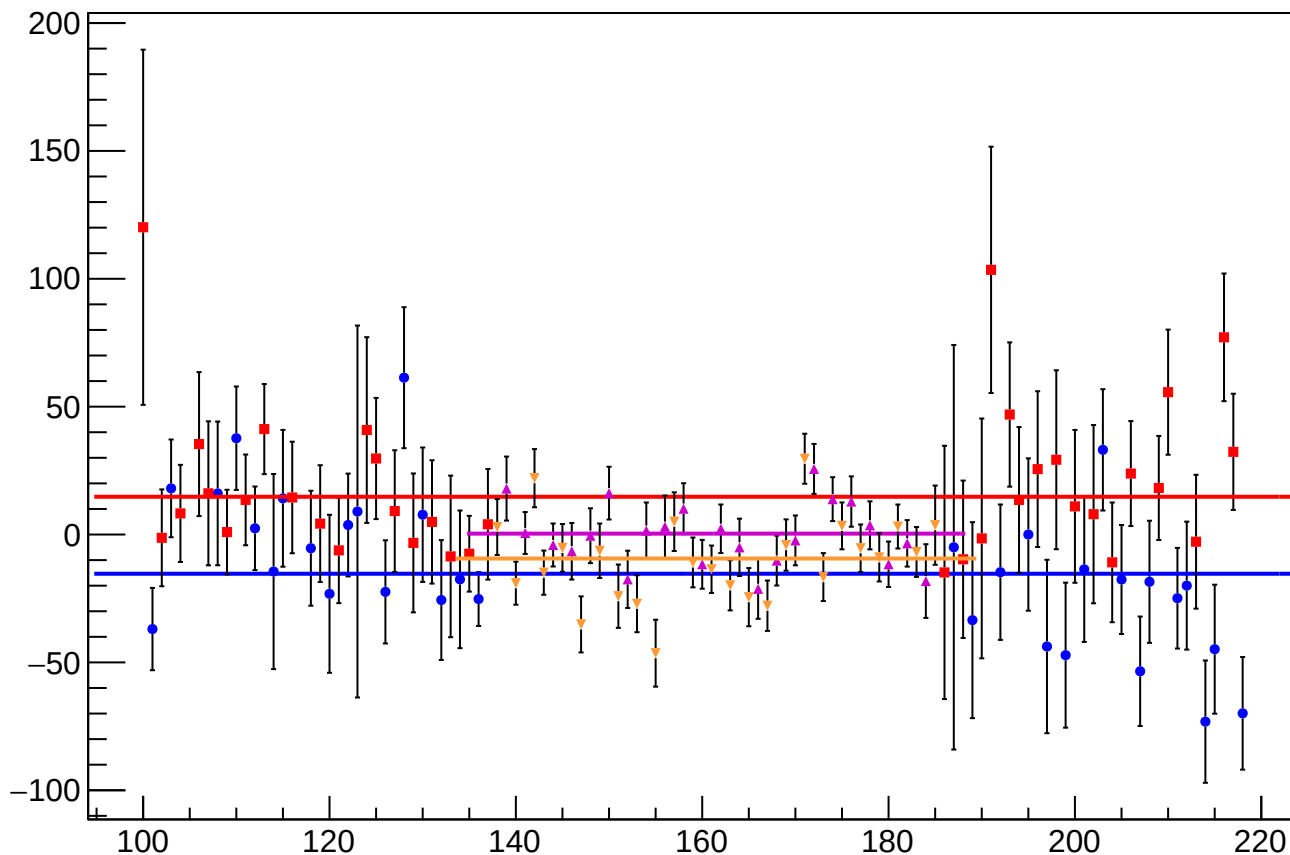
Right: 6590.443 ± 0.794 $\chi^2/\text{NDF}: 3814950.7/68$

In: 6771.629 ± 0.819 $\chi^2/\text{NDF}: 2279425.2/55$

Out: 6828.749 ± 0.811 $\chi^2/\text{NDF}: 2619994.1/60$

All: 6800.492 ± 0.576 $\chi^2/\text{NDF}: 4901874.6/11$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -15.332 $\pm$ 3.968 χ^2/NDF : 49.8/32

Left Out: -9.376 $\pm$ 2.018 χ^2/NDF : 58.4/24

Right Out: 14.771 $\pm$ 4.024 χ^2/NDF : 30.2/35

Left In: 0.353 $\pm$ 2.092 χ^2/NDF : 29.6/22

Left: -4.688 $\pm$ 1.452 χ^2/NDF : 99.3/47

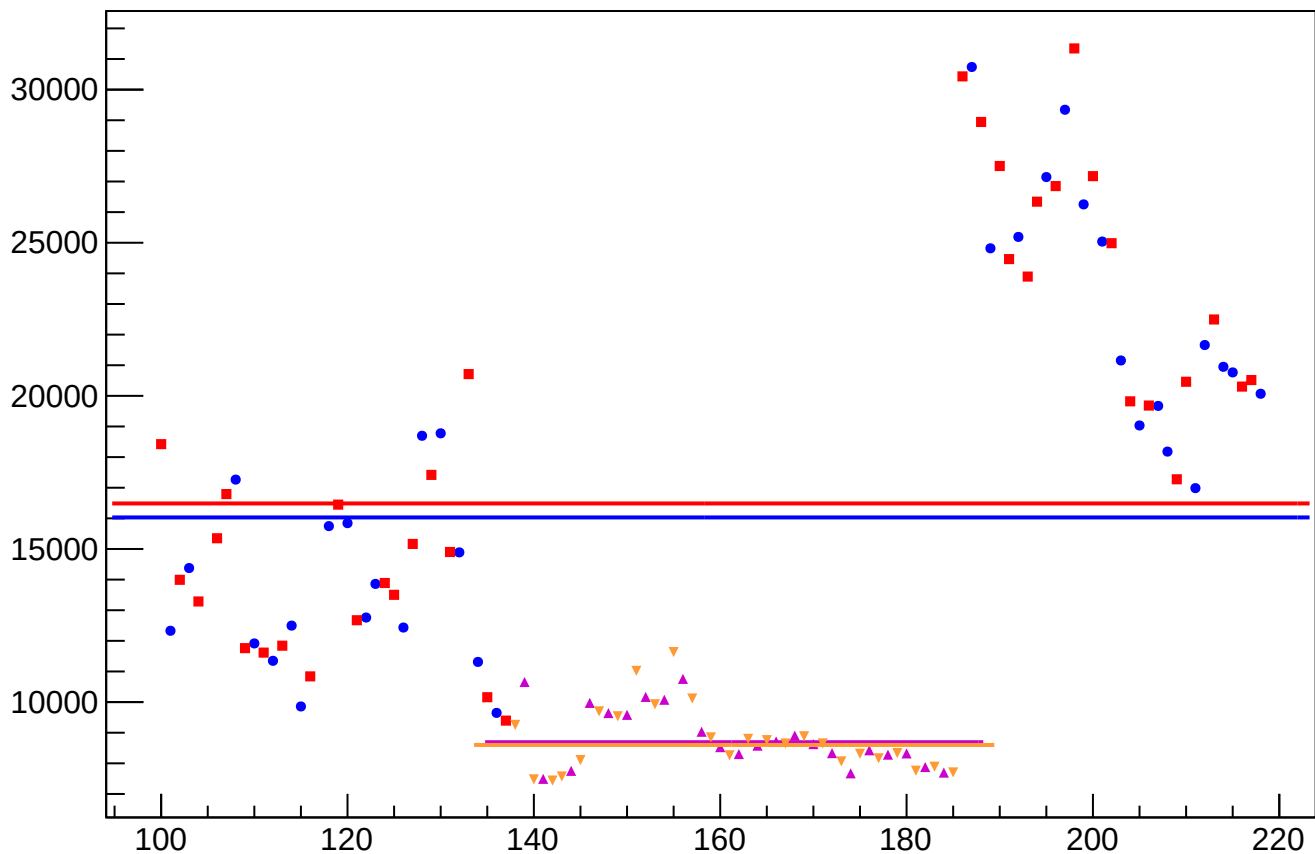
Right: -0.492 $\pm$ 2.825 χ^2/NDF : 108.4/68

In: -3.059 $\pm$ 1.851 χ^2/NDF : 91.7/55

Out: -4.525 $\pm$ 1.804 χ^2/NDF : 117.4/60

All: -3.811 $\pm$ 1.292 χ^2/NDF : 209.4/116

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 16030.011 $\pm$ 2.806 χ^2/NDF : 3453843.8/32

Left Out: 8600.457 $\pm$ 1.427 χ^2/NDF : 438229.4/24

Right Out: 16486.741 $\pm$ 2.845 χ^2/NDF : 3782551.1/35

Left In: 8690.209 $\pm$ 1.479 χ^2/NDF : 370834.1/22

Left: 8643.707 $\pm$ 1.027 χ^2/NDF : 810970.4/47

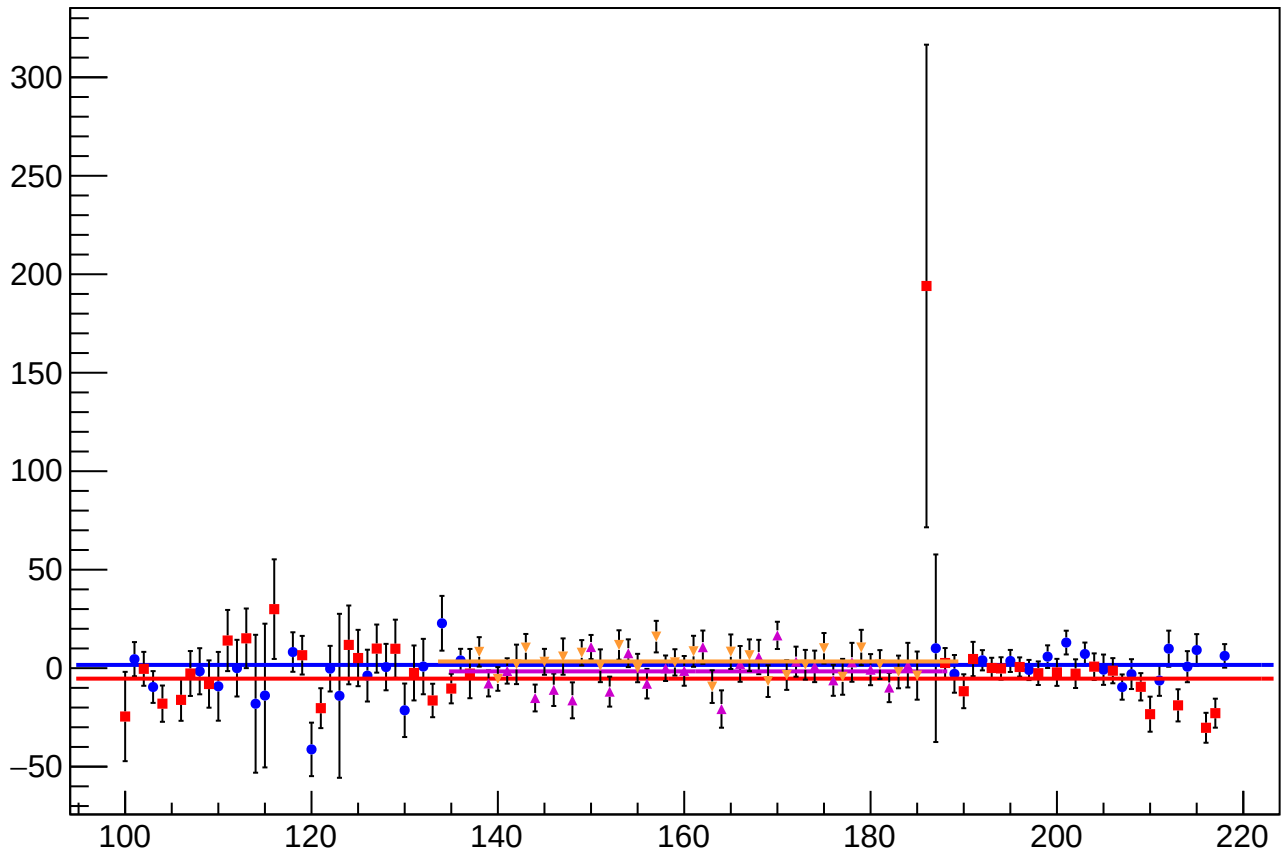
Right: 16255.166 $\pm$ 1.998 χ^2/NDF : 7249458.3/68

In: 10286.966 $\pm$ 1.309 χ^2/NDF : 9179422.1/55

Out: 10184.894 $\pm$ 1.275 χ^2/NDF : 10358992.8/60

All: 10234.618 $\pm$ 0.913 χ^2/NDF : 19541535.1

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.651 ± 1.444 χ^2/NDF : 31.8/32

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -5.319 ± 1.420 χ^2/NDF : 53.7/35

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

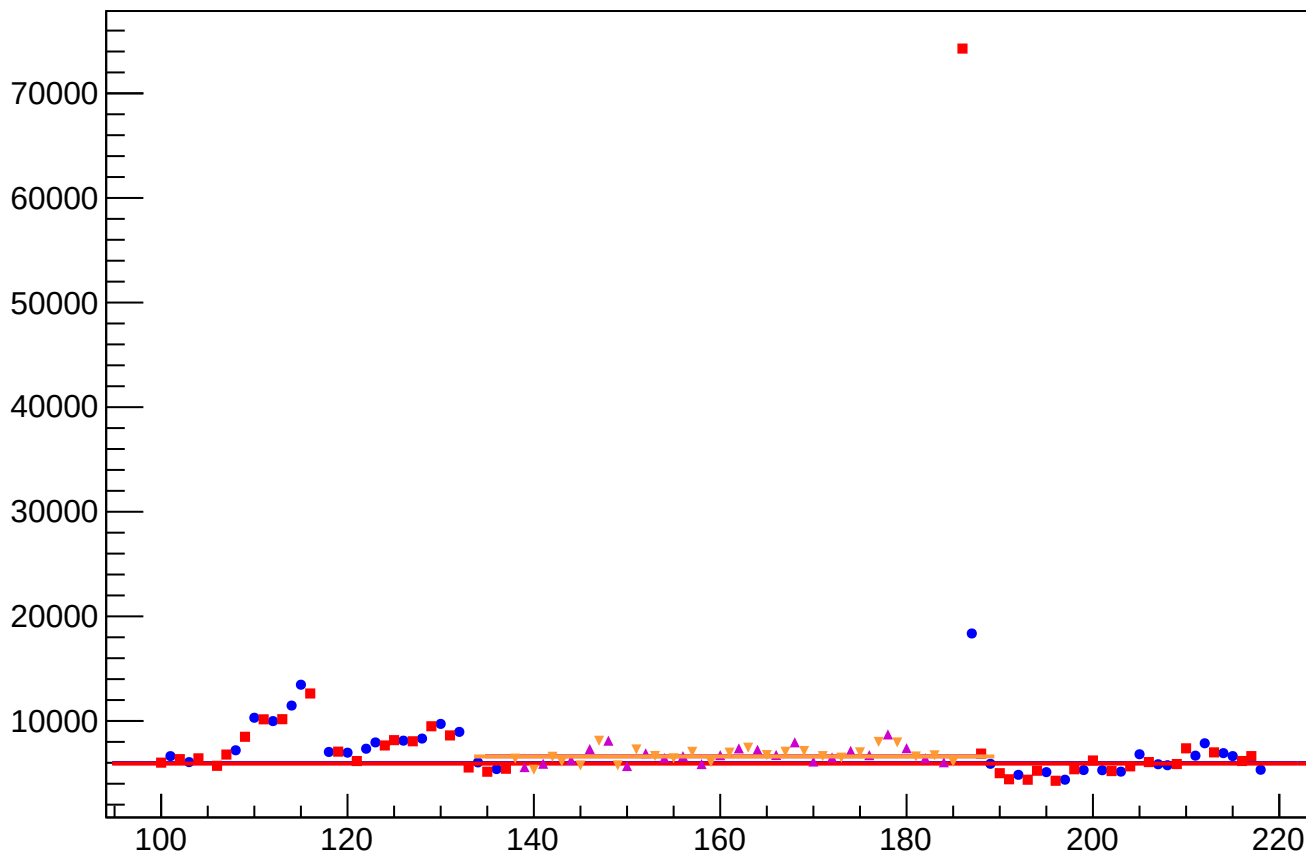
Right: -1.892 ± 1.012 χ^2/NDF : 97.3/68

In: 0.179 ± 1.072 χ^2/NDF : 67.6/55

Out: -1.338 ± 1.047 χ^2/NDF : 87.7/60

All: -0.597 ± 0.749 χ^2/NDF : 156.3/116

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5972.915 $\pm$ 1.021 χ^2/NDF : 1663380.0/32

Left Out: 6607.100 $\pm$ 1.096 χ^2/NDF : 398416.1/24

Right Out: 5927.421 $\pm$ 1.004 χ^2/NDF : 2254509.3/35

Left In: 6628.653 $\pm$ 1.131 χ^2/NDF : 430282.2/22

Left: 6617.543 $\pm$ 0.787 χ^2/NDF : 828885.6/47

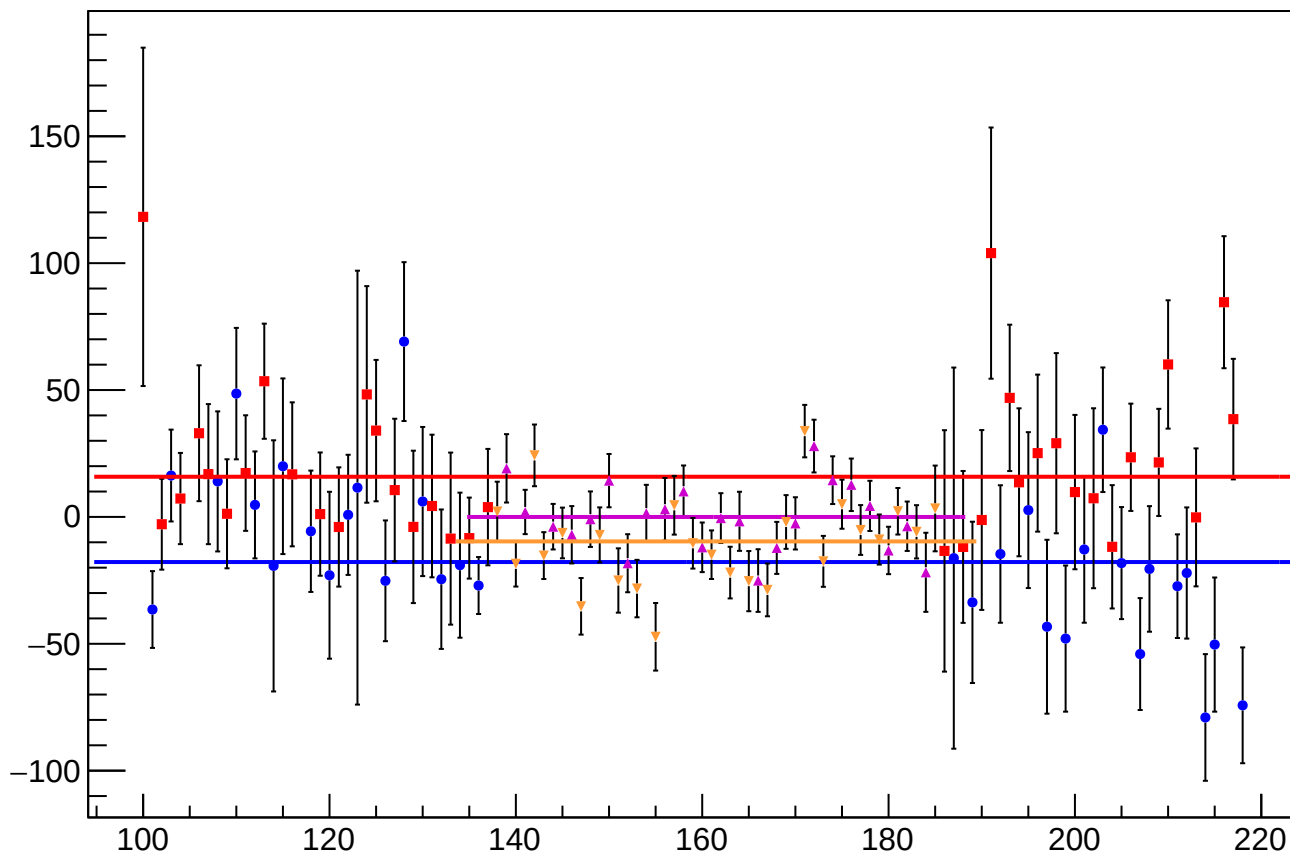
Right: 5949.793 $\pm$ 0.716 χ^2/NDF : 3918898.5/68

In: 6267.408 $\pm$ 0.758 χ^2/NDF : 2278933.2/55

Out: 6237.521 $\pm$ 0.741 χ^2/NDF : 2861917.6/60

All: 6252.121 $\pm$ 0.530 χ^2/NDF : 5141646.5/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -17.782 ± 4.232 $\chi^2/\text{NDF}: 49.0/32$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 15.831 ± 4.331 $\chi^2/\text{NDF}: 32.0/35$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

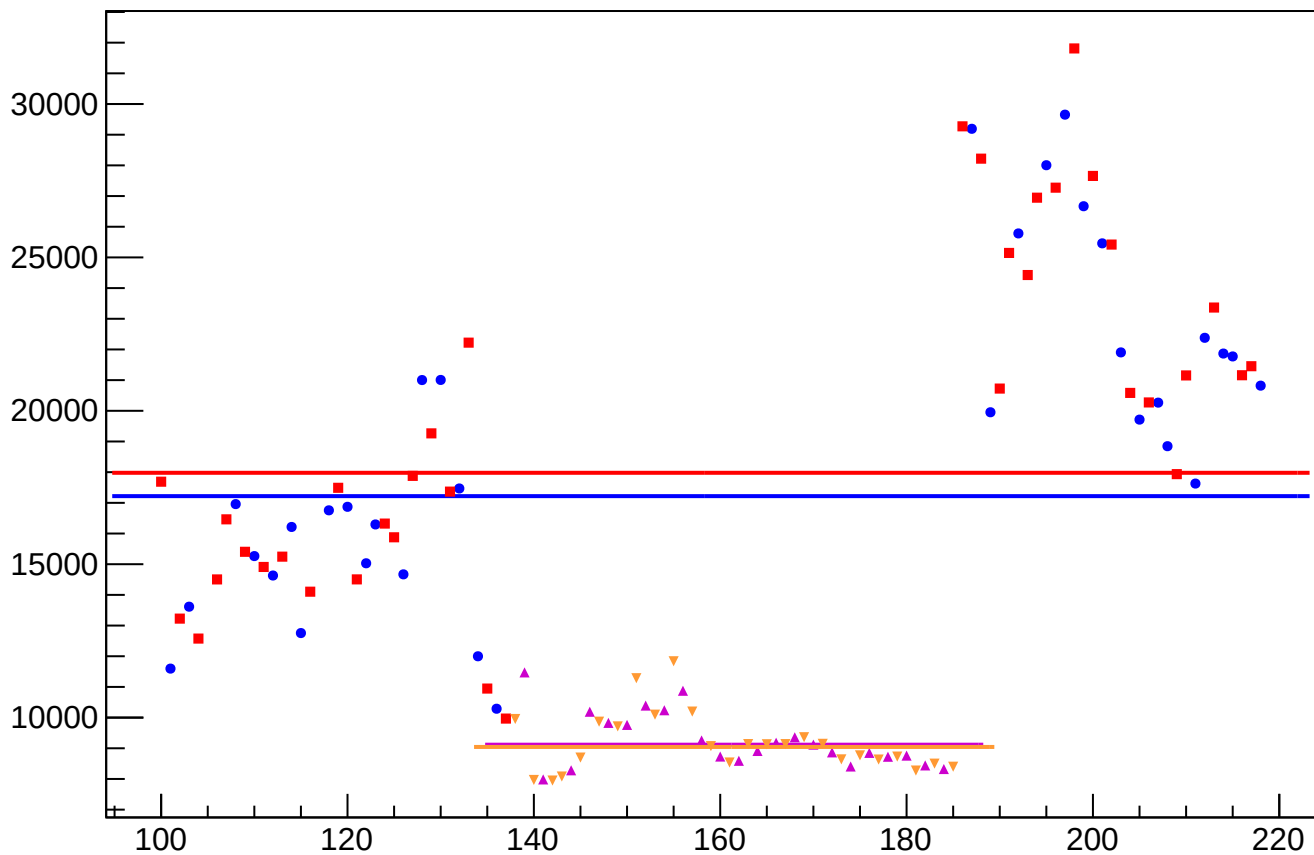
Right: -1.366 ± 3.027 $\chi^2/\text{NDF}: 111.9/68$

In: -3.777 ± 1.946 $\chi^2/\text{NDF}: 93.5/55$

Out: -4.731 ± 1.903 $\chi^2/\text{NDF}: 119.8/60$

All: -4.265 ± 1.361 $\chi^2/\text{NDF}: 213.5/116$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17218.720 $\pm$ 2.992 χ^2 /NDF: 2921560.4/32

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF:328192.2/24

Right Out: 17979.636 $\pm$ 3.063 χ^2 /NDF: 2913529.5/35

Left In: 9116.921 $\pm$ 1.550 χ^2 /NDF:277594.8/22

Left: 9078.947 $\pm$ 1.077 χ^2 /NDF: 606947.8/47

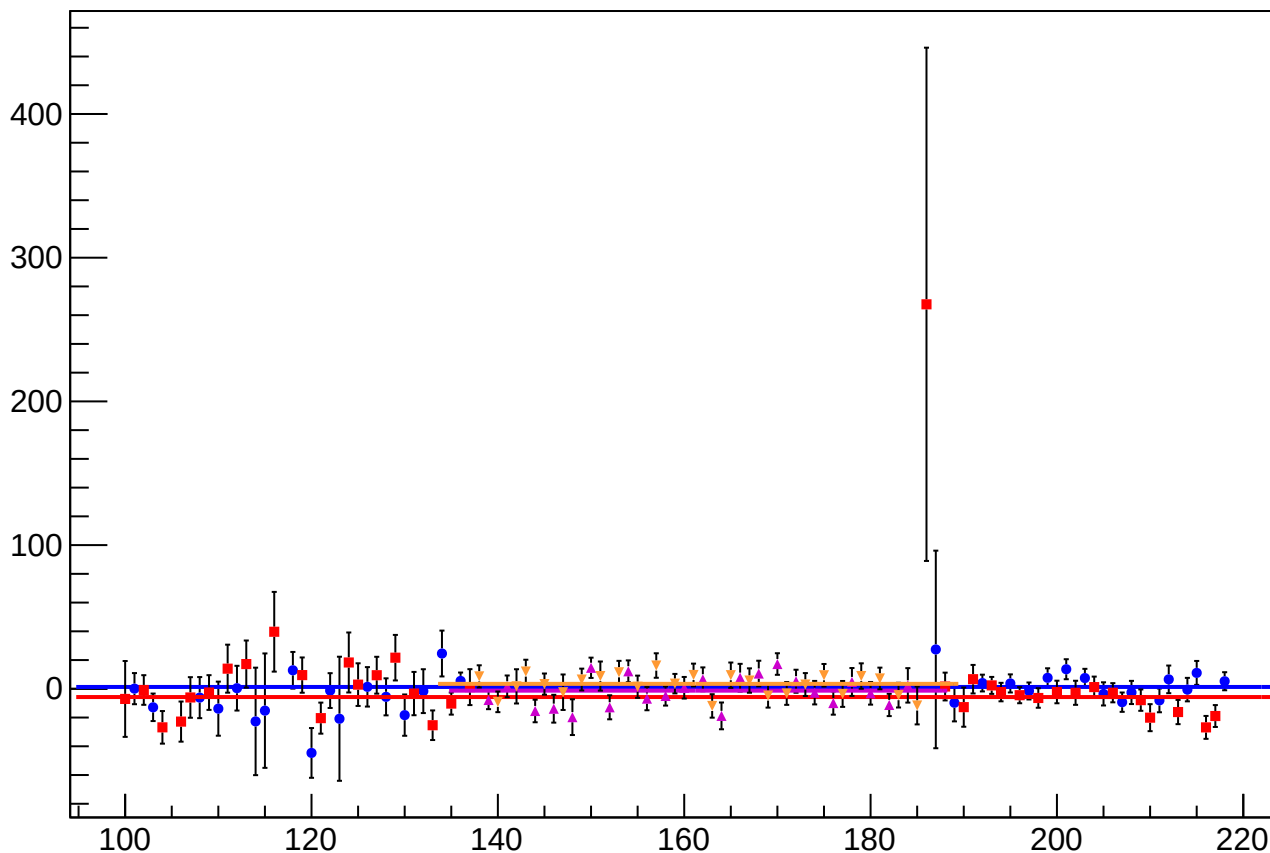
Right: 17590.338 $\pm$ 2.140 χ^2 /NDF: 5866668.6/68

In: 10830.765 $\pm$ 1.376 χ^2 /NDF:8978835.4/55

Out: 10768.184 $\pm$ 1.346 χ^2 /NDF:10111582.0/60

All: 10798.767 $\pm$ 0.962 χ^2 /NDF: 19091474.6

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.285 ± 1.595 χ^2/NDF : 29.6/32

Left Out: 3.439 ± 1.666 χ^2/NDF : 18.9/24

Right Out: -5.738 ± 1.592 χ^2/NDF : 47.4/35

Left In: -1.291 ± 1.701 χ^2/NDF : 36.5/22

Left: 1.123 ± 1.190 χ^2/NDF : 59.4/47

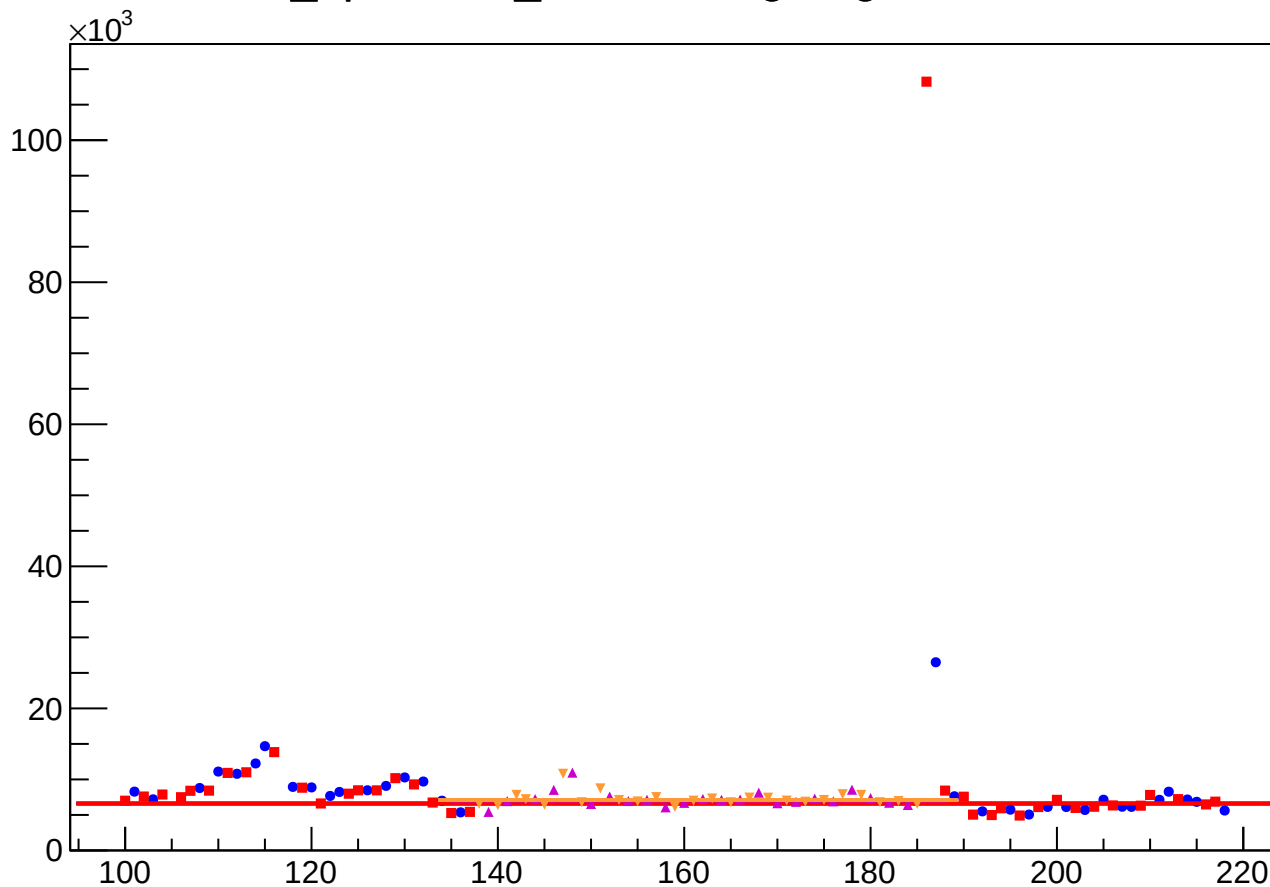
Right: -2.231 ± 1.127 χ^2/NDF : 86.8/68

In: 0.080 ± 1.163 χ^2/NDF : 67.4/55

Out: -1.356 ± 1.151 χ^2/NDF : 82.2/60

All: -0.646 ± 0.818 χ^2/NDF : 150.3/116

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6591.501 $\pm$ 1.128 χ^2/NDF : 1664562.2/32

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6635.702 $\pm$ 1.126 χ^2/NDF : 2156903.9/35

Left In: 7033.702 $\pm$ 1.203 χ^2/NDF : 541035.5/22

Left: 7066.886 $\pm$ 0.842 χ^2/NDF : 925077.6/47

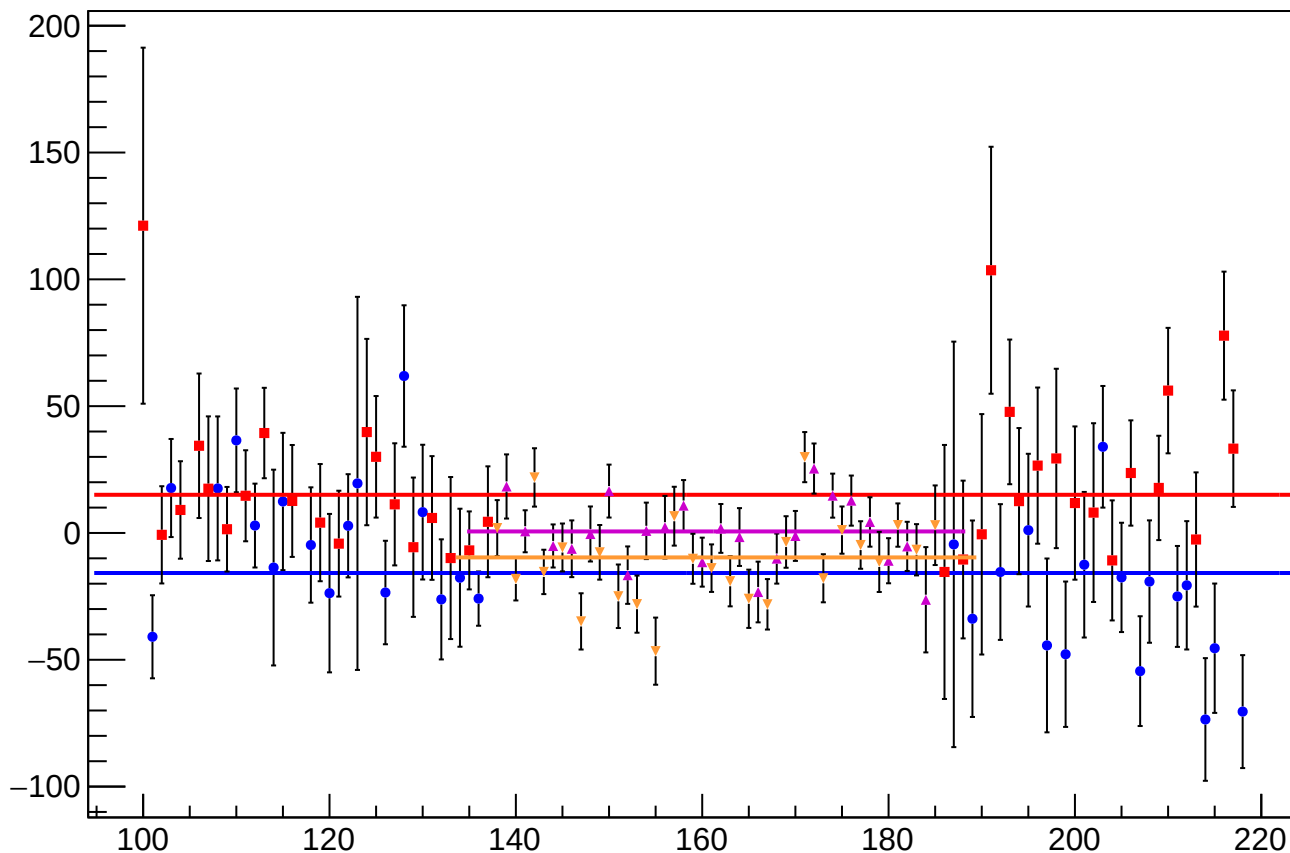
Right: 6613.631 $\pm$ 0.797 χ^2/NDF : 3822235.6/68

In: 6798.350 $\pm$ 0.823 χ^2/NDF : 2277545.6/55

Out: 6856.757 $\pm$ 0.814 χ^2/NDF : 2620177.6/60

All: 6827.859 $\pm$ 0.579 χ^2/NDF : 4900270.3/11

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -15.785 ± 4.018 $\chi^2/\text{NDF}: 50.2/32$

Left Out: -9.640 ± 2.057 $\chi^2/\text{NDF}: 57.6/24$

Right Out: 15.052 ± 4.077 $\chi^2/\text{NDF}: 29.1/35$

Left In: 0.599 ± 2.135 $\chi^2/\text{NDF}: 29.7/22$

Left: -4.710 ± 1.481 $\chi^2/\text{NDF}: 99.2/47$

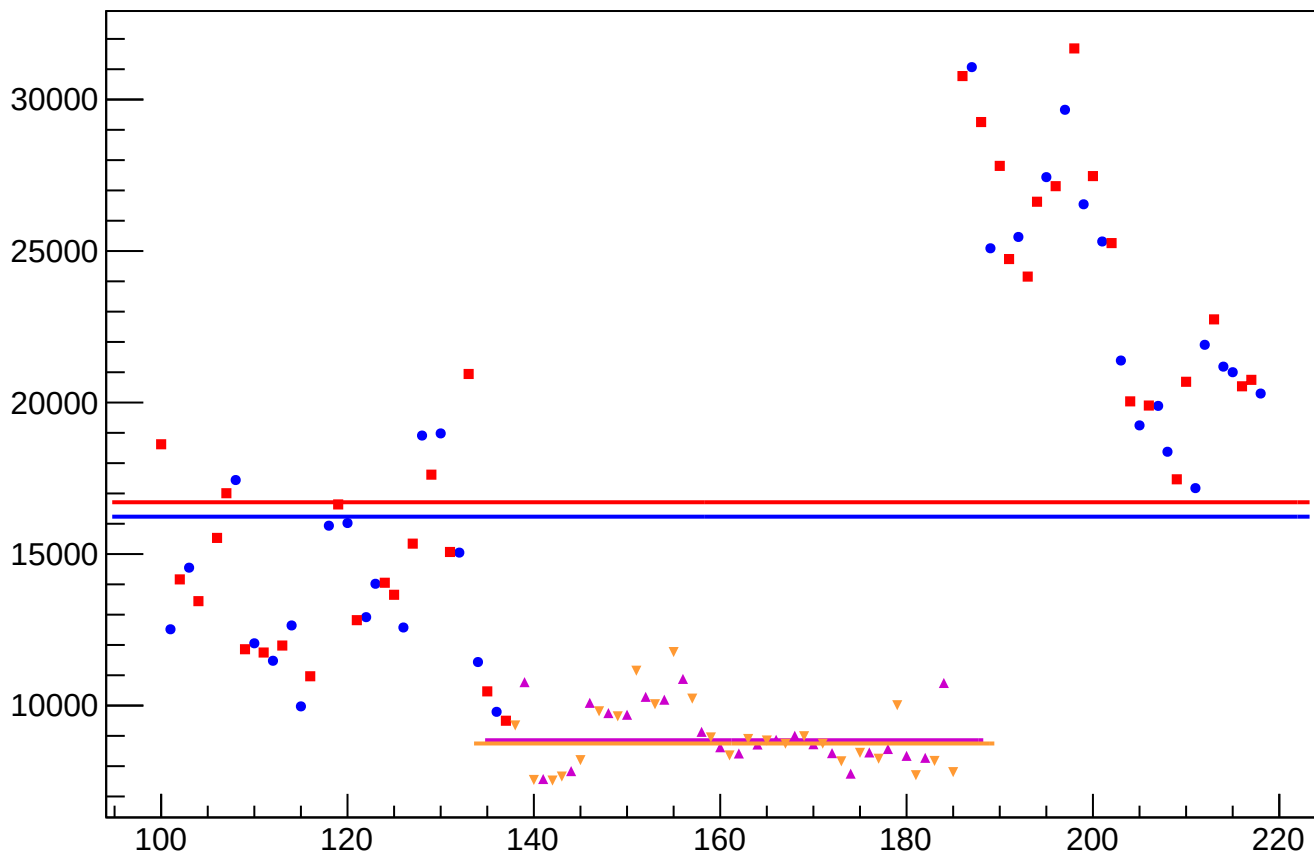
Right: -0.592 ± 2.862 $\chi^2/\text{NDF}: 108.3/68$

In: -3.009 ± 1.885 $\chi^2/\text{NDF}: 92.8/55$

Out: -4.629 ± 1.837 $\chi^2/\text{NDF}: 116.0/60$

All: -3.840 ± 1.316 $\chi^2/\text{NDF}: 209.2/116$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16233.852 $\pm$ 2.841 χ^2 /NDF: 3429310.0/32

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF: 463394.1/24

Right Out: 16709.590 $\pm$ 2.883 χ^2 /NDF: 3742163.4/35

Left In: 8855.591 $\pm$ 1.510 χ^2 /NDF: 367542.7/22

Left: 8800.011 $\pm$ 1.048 χ^2 /NDF: 833550.6/47

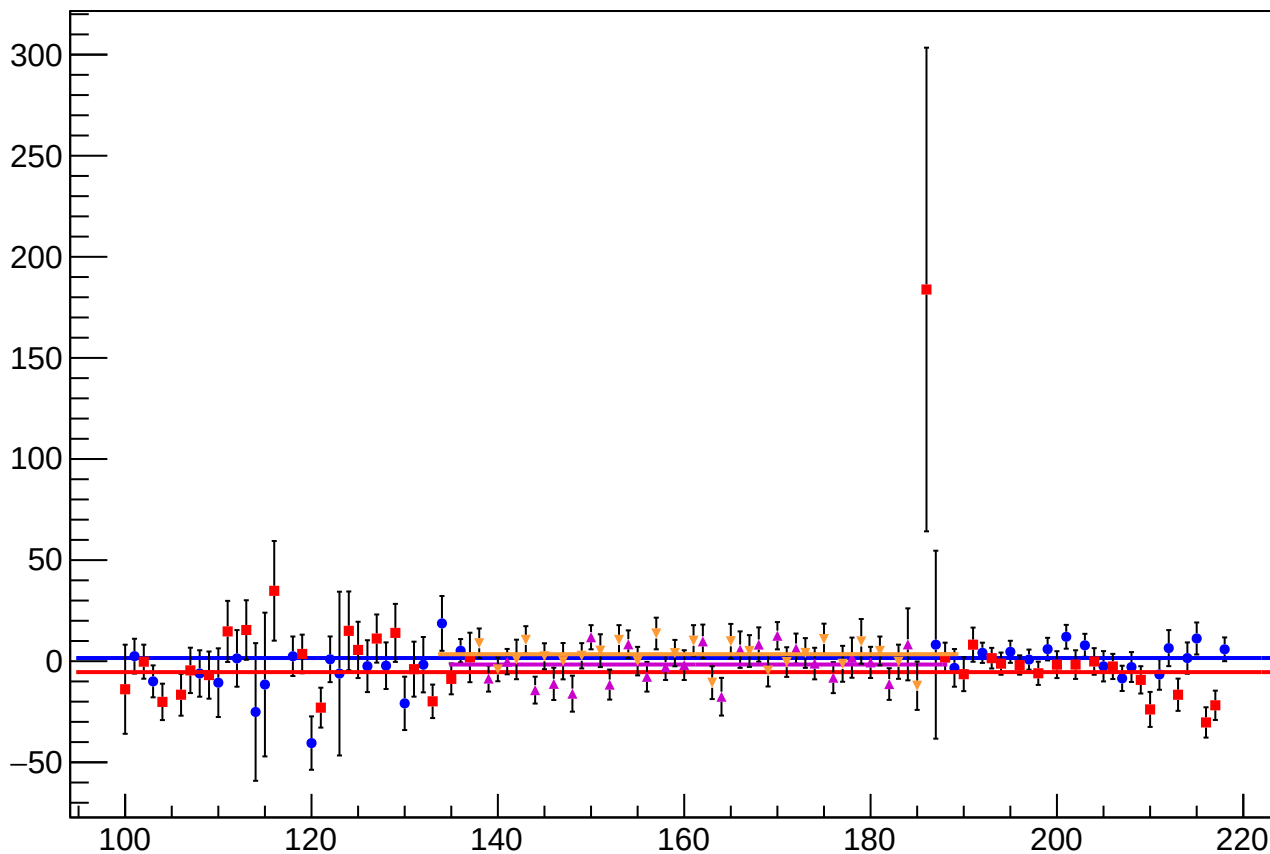
Right: 16468.244 $\pm$ 2.023 χ^2 /NDF: 7185290.0/68

In: 10480.388 $\pm$ 1.333 χ^2 /NDF: 9056715.6/55

Out: 10364.247 $\pm$ 1.299 χ^2 /NDF: 10284481.9/60

All: 10420.799 $\pm$ 0.930 χ^2 /NDF: 19345091.5

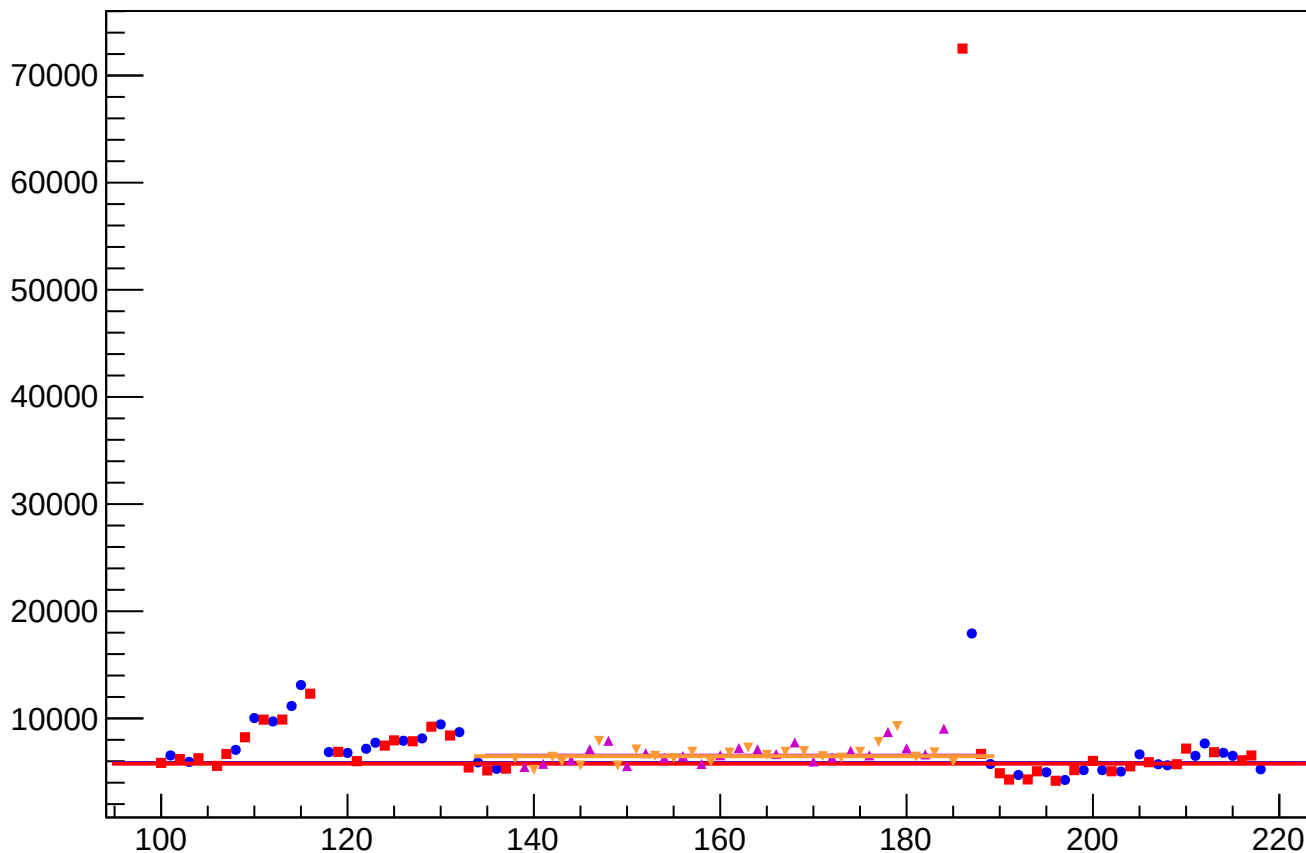
diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.577 ± 1.409 χ^2/NDF : 31.9/32
Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24
Right Out: -5.395 ± 1.386 χ^2/NDF : 57.4/35
Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47
Right: -1.968 ± 0.988 χ^2/NDF : 101.7/68
In: 0.150 ± 1.051 χ^2/NDF : 67.9/55
Out: -1.383 ± 1.025 χ^2/NDF : 91.7/60
All: -0.635 ± 0.734 χ^2/NDF : 160.7/116

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5827.797 $\pm$ 0.997 χ^2 /NDF: 1668938.3/32

Left Out: 6471.976 $\pm$ 1.078 χ^2 /NDF: 490282.9/24

Right Out: 5781.127 $\pm$ 0.980 χ^2 /NDF: 2250808.4/35

Left In: 6521.975 $\pm$ 1.116 χ^2 /NDF: 480034.7/22

Left: 6496.112 $\pm$ 0.775 χ^2 /NDF: 971356.4/47

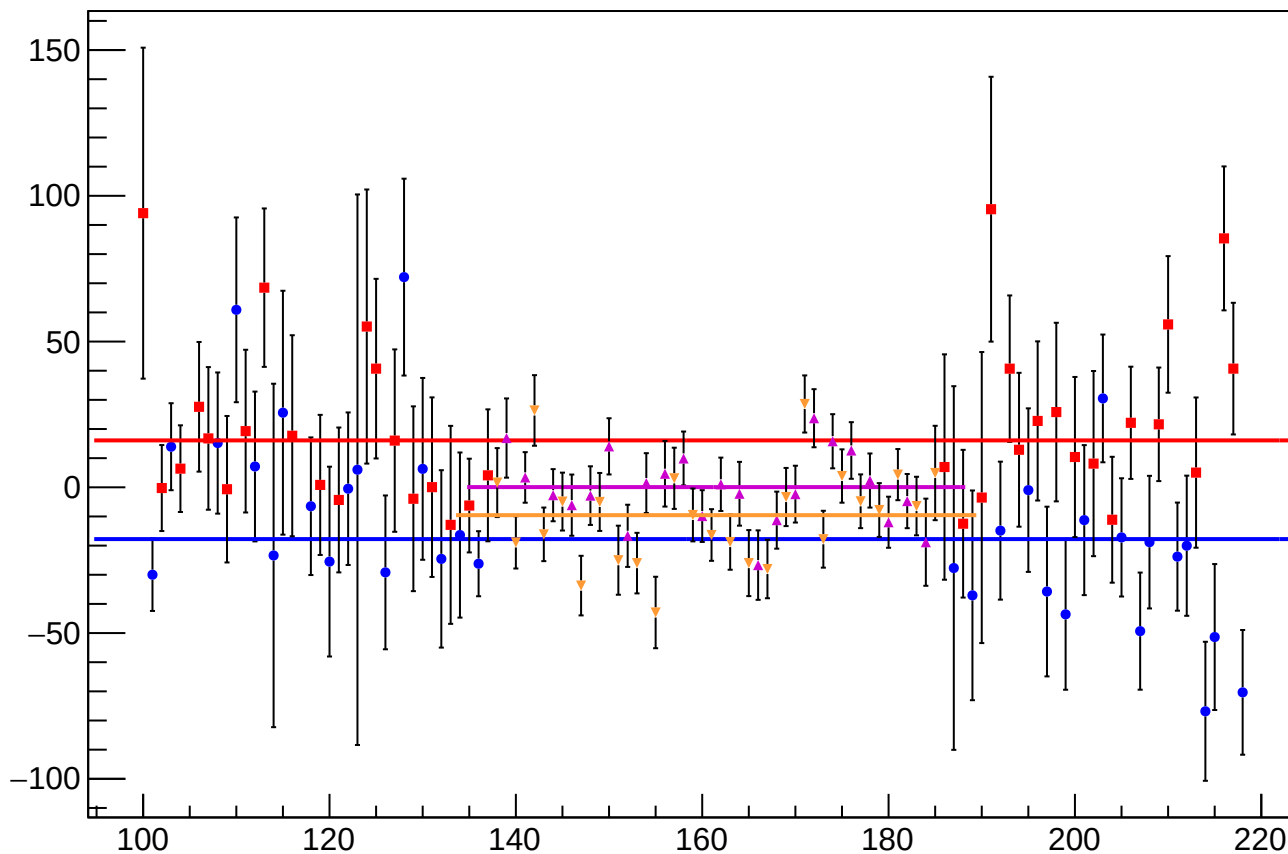
Right: 5804.067 $\pm$ 0.699 χ^2 /NDF: 3920861.9/68

In: 6135.831 $\pm$ 0.743 χ^2 /NDF: 2364302.4/55

Out: 6093.709 $\pm$ 0.725 χ^2 /NDF: 2966033.5/60

All: 6114.247 $\pm$ 0.519 χ^2 /NDF: 5331981.8/11

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -17.762 $\pm$ 4.035 χ^2/NDF : 48.3/32

Left Out: -9.554 $\pm$ 2.012 χ^2/NDF : 59.5/24

Right Out: 16.095 $\pm$ 4.150 χ^2/NDF : 33.7/35

Left In: 0.072 $\pm$ 2.073 χ^2/NDF : 29.8/22

Left: -4.885 $\pm$ 1.444 χ^2/NDF : 100.5/47

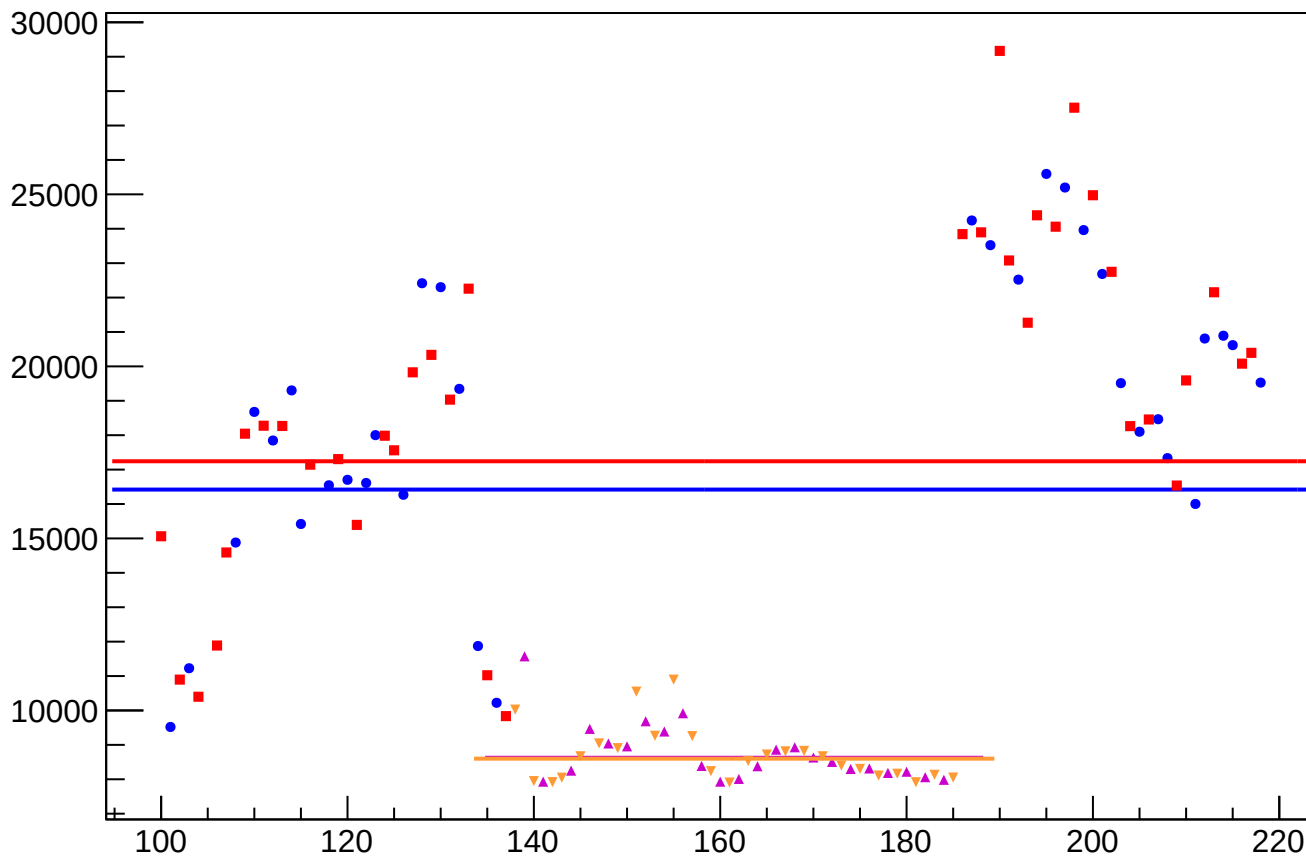
Right: -1.309 $\pm$ 2.893 χ^2/NDF : 116.2/68

In: -3.652 $\pm$ 1.844 χ^2/NDF : 93.6/55

Out: -4.673 $\pm$ 1.810 χ^2/NDF : 124.2/60

All: -4.172 $\pm$ 1.292 χ^2/NDF : 217.9/116

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16419.670 $\pm$ 2.853 χ^2/NDF : 2952290.8/32

Left Out: 8598.983 $\pm$ 1.423 χ^2/NDF : 249070.5/24

Right Out: 17242.339 $\pm$ 2.934 χ^2/NDF : 2835823.4/35

Left In: 8625.233 $\pm$ 1.466 χ^2/NDF : 237310.9/22

Left: 8611.717 $\pm$ 1.021 χ^2/NDF : 486546.6/47

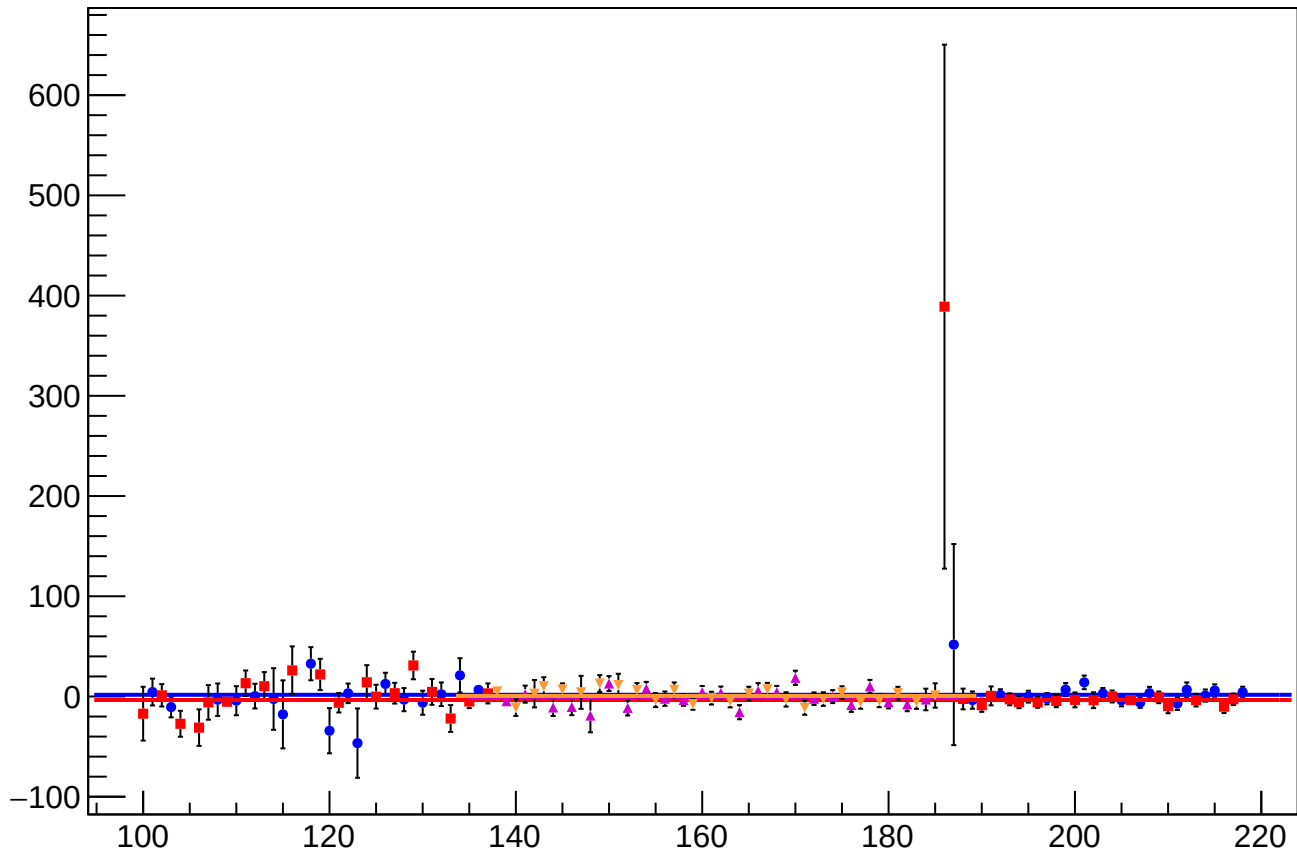
Right: 16819.455 $\pm$ 2.045 χ^2/NDF : 5828521.3/68

In: 10252.764 $\pm$ 1.304 χ^2/NDF : 9095113.5/55

Out: 10243.874 $\pm$ 1.280 χ^2/NDF : 10110711.9/60

All: 10248.237 $\pm$ 0.913 χ^2/NDF : 19205849.1

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.688 ± 1.371 $\chi^2/\text{NDF}: 25.5/32$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -3.500 ± 1.336 $\chi^2/\text{NDF}: 29.7/35$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

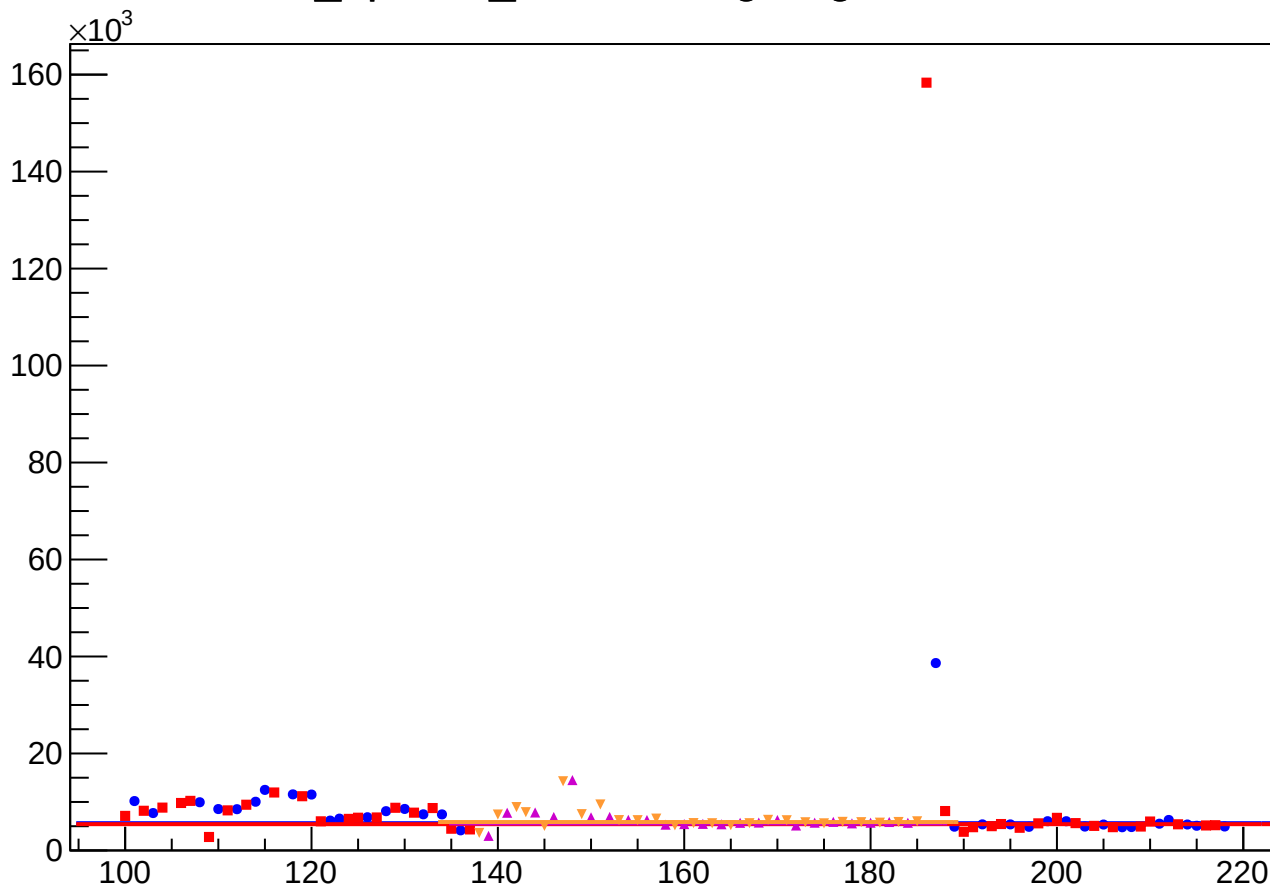
Right: -0.972 ± 0.957 $\chi^2/\text{NDF}: 62.5/68$

In: 0.344 ± 0.978 $\chi^2/\text{NDF}: 60.0/55$

Out: -1.604 ± 0.972 $\chi^2/\text{NDF}: 53.4/60$

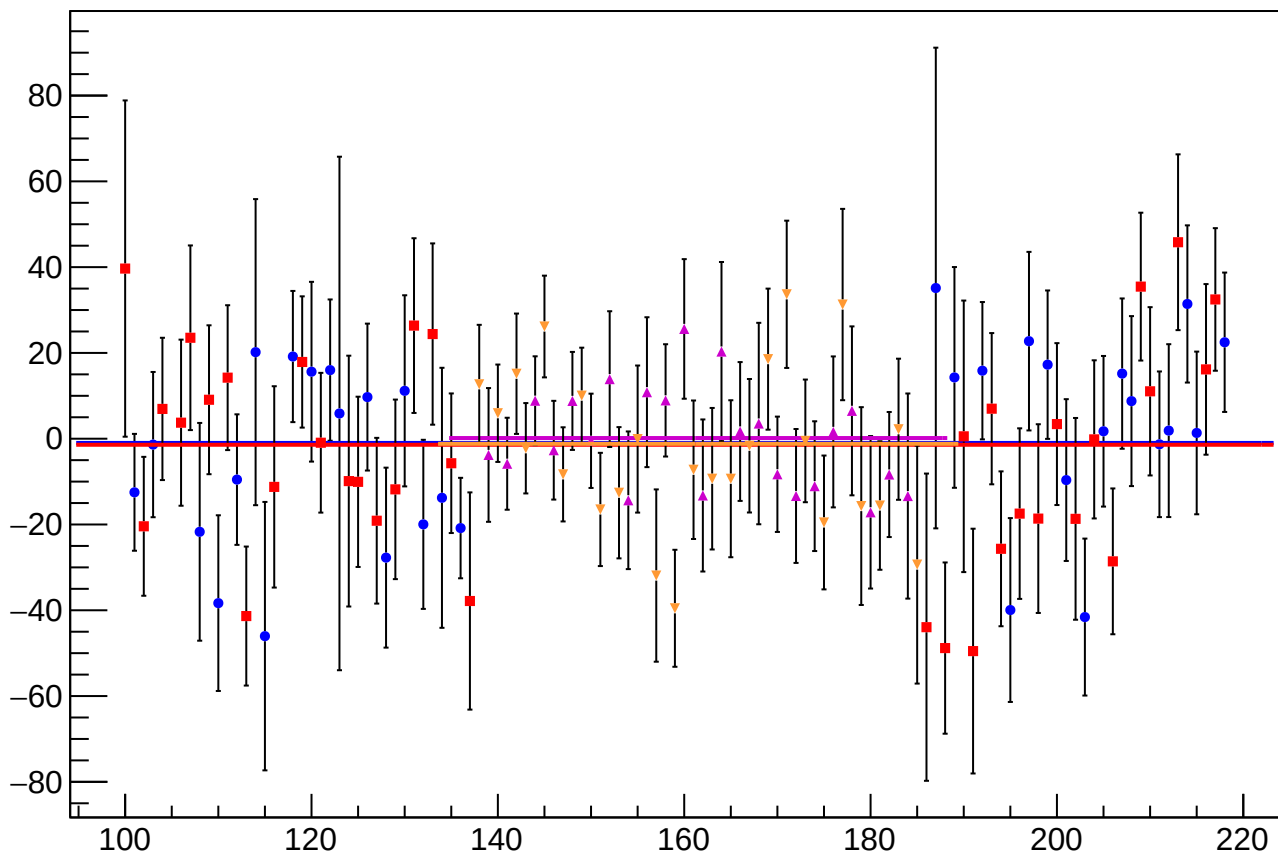
All: -0.636 ± 0.690 $\chi^2/\text{NDF}: 115.4/116$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5622.899+/-0.969	χ^2/NDF : 2169161.6/32	Left: 5713.698+/-0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605+/-1.002	χ^2/NDF : 1690049.2/24	Right: 5518.558+/-0.677	χ^2/NDF : 5660627.8/68
Right Out: 5419.399+/-0.945	χ^2/NDF : 3468869.3/35	In: 5597.574+/-0.692	χ^2/NDF : 4333339.8/55
Left In: 5571.330+/-0.987	χ^2/NDF : 2162788.3/22	Out: 5627.004+/-0.688	χ^2/NDF : 5261490.3/60
		All: 5612.372+/-0.488	χ^2/NDF : 9595740.8/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -0.985 $\pm$ 3.297 χ^2/NDF : 36.3/32

Left Out: -1.182 $\pm$ 2.939 χ^2/NDF : 33.7/24

Right Out: -1.412 $\pm$ 3.262 χ^2/NDF : 51.6/35

Left In: 0.157 $\pm$ 3.058 χ^2/NDF : 11.5/22

Left: -0.539 $\pm$ 2.119 χ^2/NDF : 45.3/47

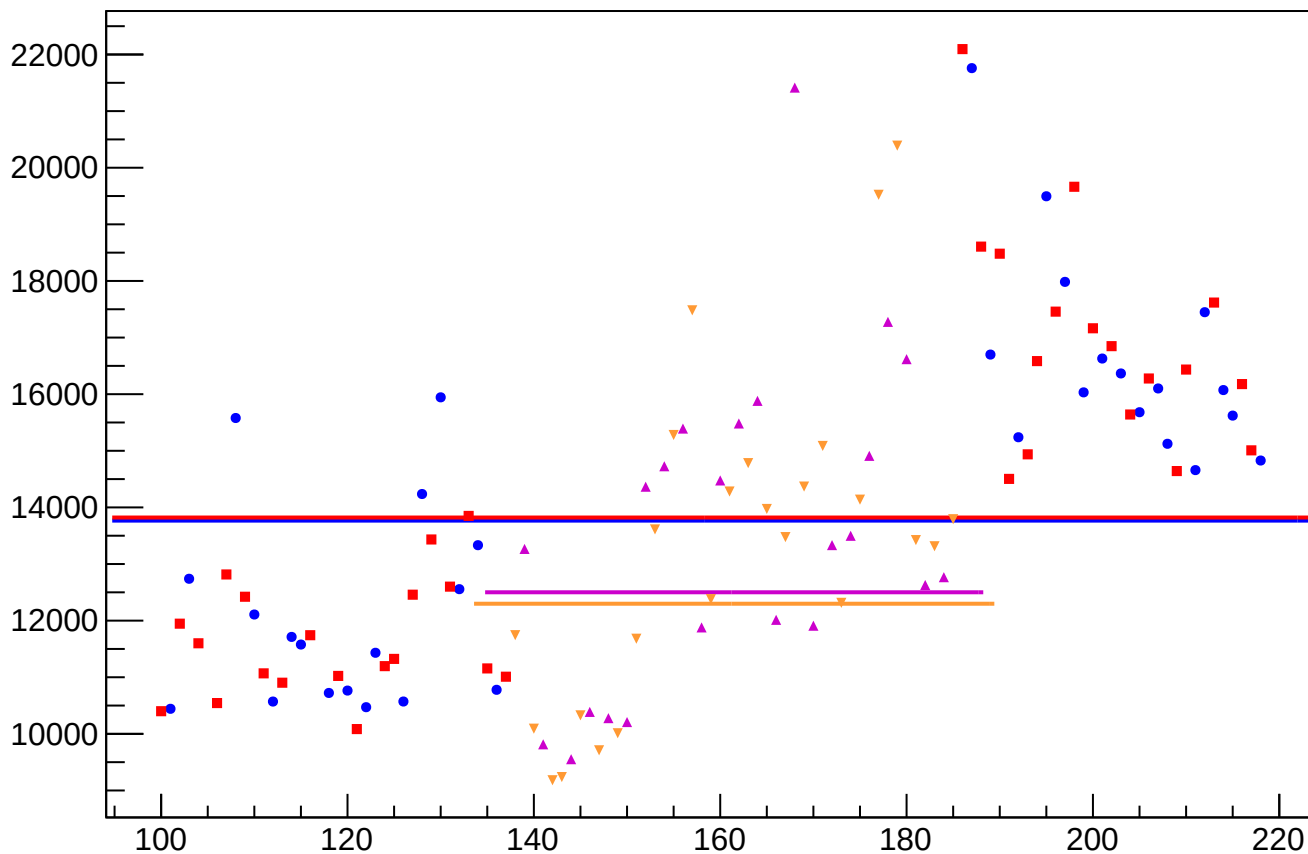
Right: -1.201 $\pm$ 2.319 χ^2/NDF : 87.9/68

In: -0.371 $\pm$ 2.242 χ^2/NDF : 47.8/55

Out: -1.285 $\pm$ 2.183 χ^2/NDF : 85.3/60

All: -0.840 $\pm$ 1.564 χ^2/NDF : 133.3/116

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13766.972+/-2.331 χ^2/NDF : 1315326.8/32

Left Out: 12298.676+/-2.078 χ^2/NDF : 1506026.8/24

Right Out: 13821.283+/-2.307 χ^2/NDF : 1435325.2/35

Left In: 12500.795+/-2.162 χ^2/NDF : 1357889.1/22

Left: 12395.720+/-1.498 χ^2/NDF : 2868458.0/47

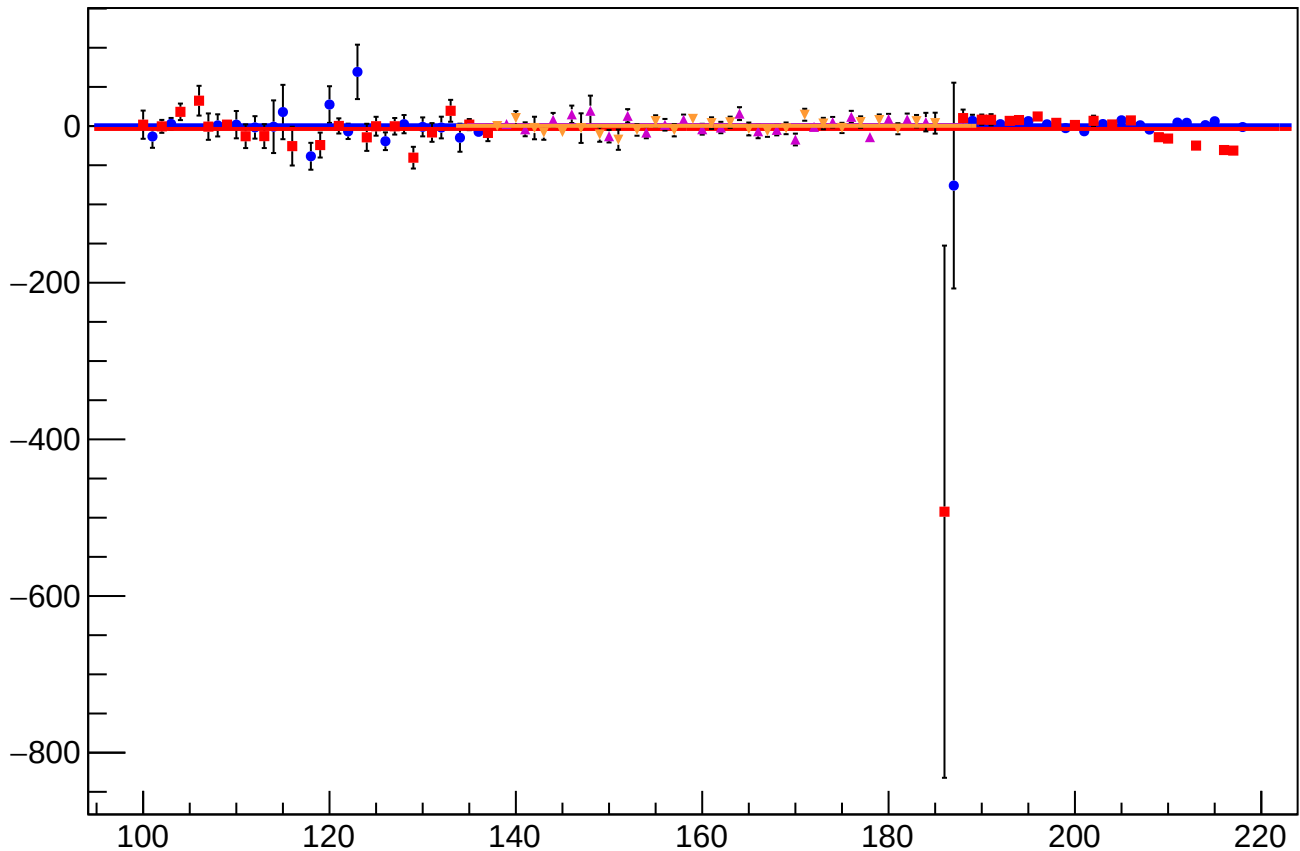
Right: 13794.419+/-1.640 χ^2/NDF : 2750926.2/68

In: 13086.304+/-1.585 χ^2/NDF : 2831768.7/55

Out: 12980.836+/-1.544 χ^2/NDF : 3181871.3/60

All: 13032.171+/-1.106 χ^2/NDF : 6015911.3/117

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 1.012 ± 1.128 $\chi^2/\text{NDF}: 30.7/32$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: -3.670 ± 1.134 $\chi^2/\text{NDF}: 158.8/35$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

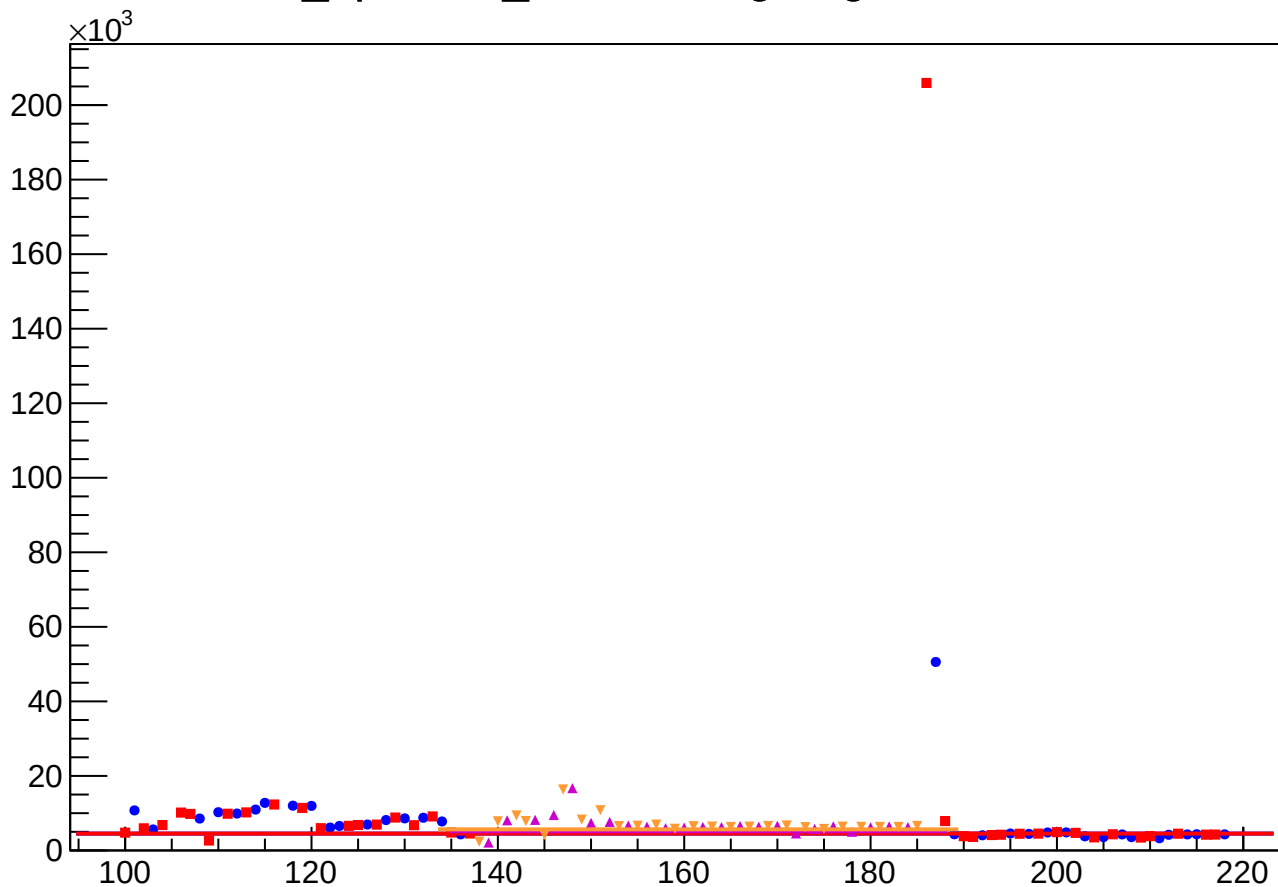
Right: -1.317 ± 0.800 $\chi^2/\text{NDF}: 198.0/68$

In: 1.074 ± 0.871 $\chi^2/\text{NDF}: 64.3/55$

Out: -2.121 ± 0.889 $\chi^2/\text{NDF}: 182.8/60$

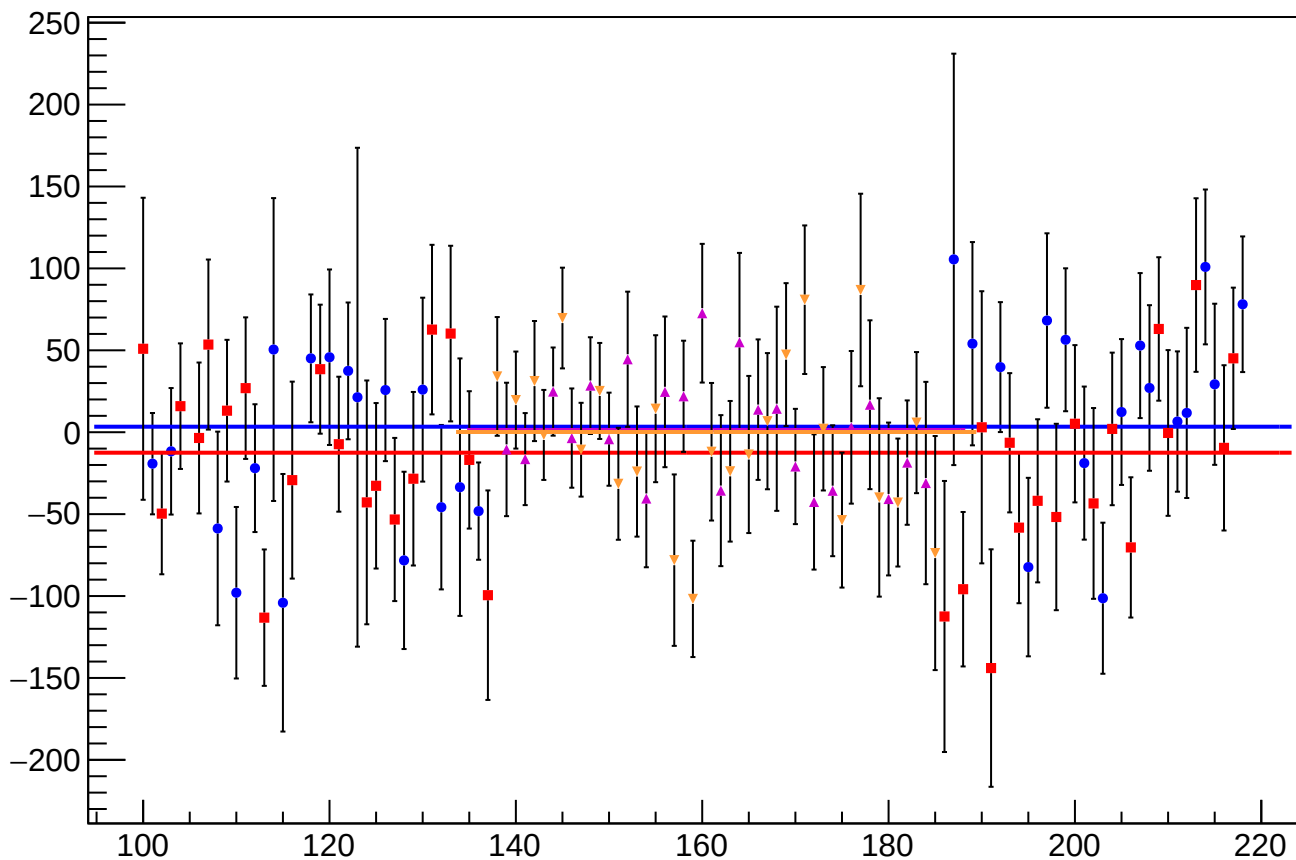
All: -0.491 ± 0.622 $\chi^2/\text{NDF}: 253.6/116$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4525.179+/-0.798	χ^2/NDF : 3448293.2/32	Left: 5387.078+/-0.701	χ^2/NDF : 9762498.7/47
Left Out: 5659.441+/-1.014	χ^2/NDF : 4128583.6/24	Right: 4525.134+/-0.565	χ^2/NDF : 7421028.5/68
Right Out: 4525.089+/-0.802	χ^2/NDF : 3972735.3/35	In: 4772.359+/-0.616	χ^2/NDF : 9181952.1/55
Left In: 5137.772+/-0.970	χ^2/NDF : 5495609.7/22	Out: 4961.690+/-0.629	χ^2/NDF : 8871766.9/60
		All: 4865.073+/-0.440	χ^2/NDF : 18099982.3/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 3.368 ± 8.254 χ^2/NDF : 39.8/32

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -12.506 ± 8.166 χ^2/NDF : 40.0/35

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

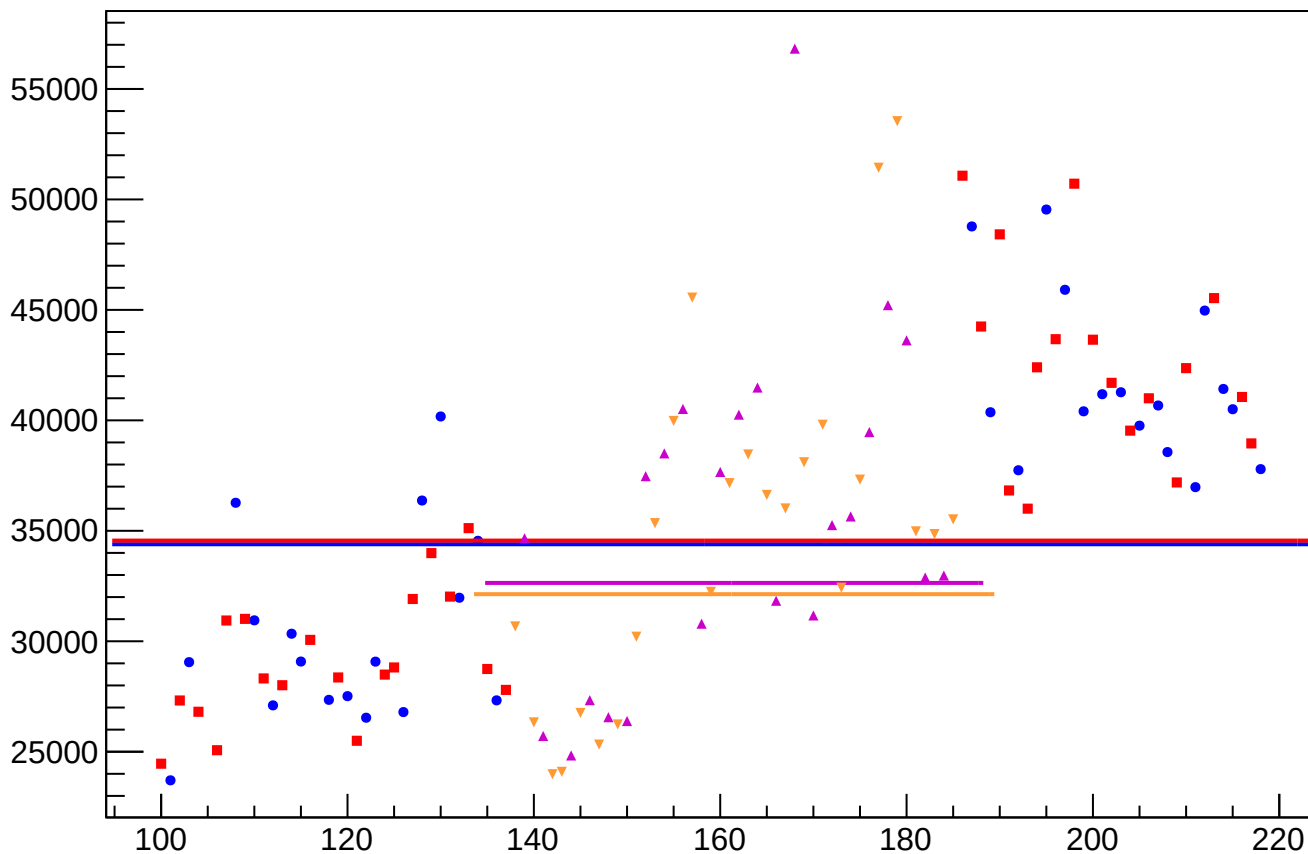
Right: -4.654 ± 5.805 χ^2/NDF : 81.6/68

In: 2.339 ± 5.741 χ^2/NDF : 53.1/55

Out: -5.797 ± 5.596 χ^2/NDF : 72.6/60

All: -1.833 ± 4.007 χ^2/NDF : 126.7/116

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34390.922+/-5.837

χ^2/NDF : 1438879.7/32

Left: 32376.774+/-3.916 χ^2/NDF : 2946456.2/47

Right: 34475.172+/-4.105 χ^2/NDF : 2963896.0/68

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

In: 33487.616+/-4.060 χ^2/NDF : 2887438.9/55

Right Out: 34557.625+/-5.774

χ^2/NDF : 1524604.0/35

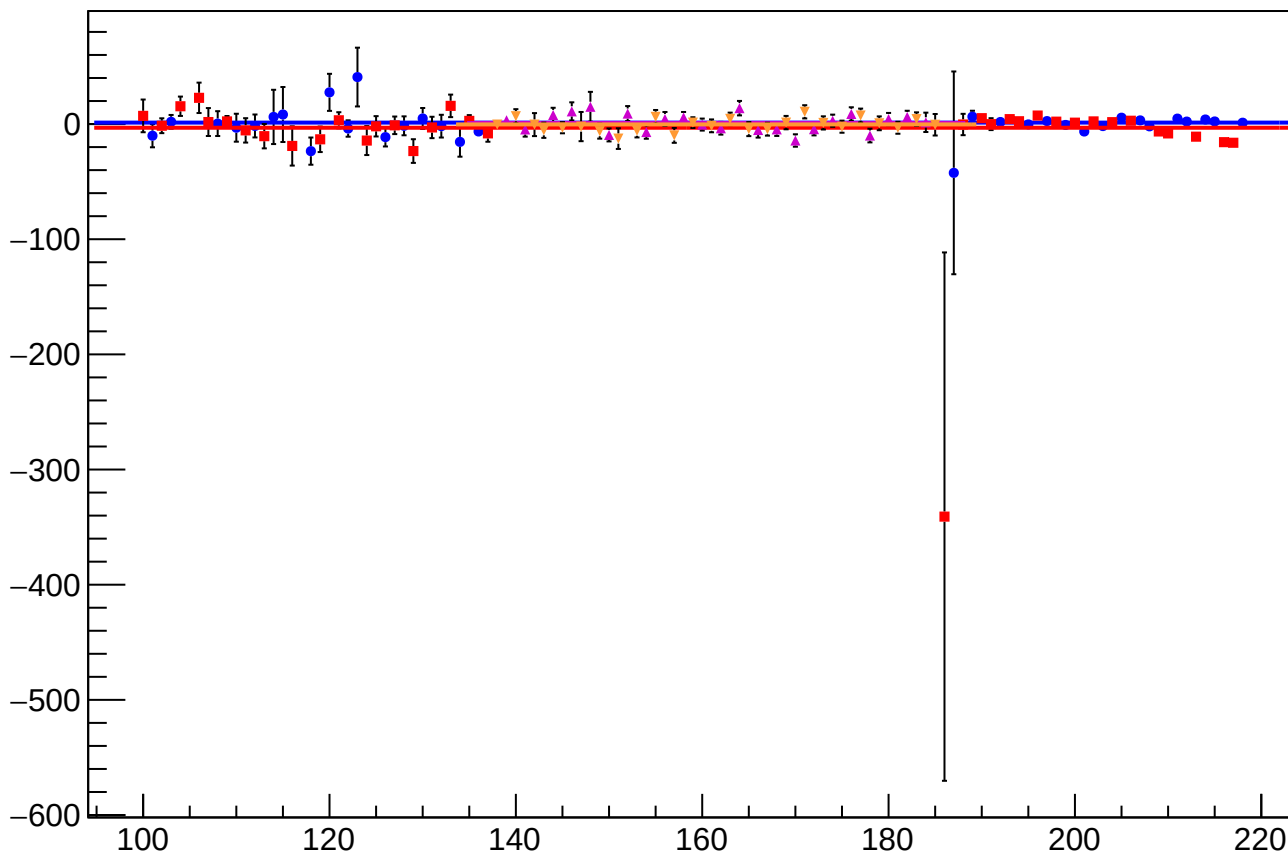
Out: 33271.202+/-3.957 χ^2/NDF : 3158264.1/60

Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

All: 33376.635+/-2.833 χ^2/NDF : 6047160.4/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.261 ± 0.650 $\chi^2/\text{NDF}: 40.2/32$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: -3.204 ± 0.684 $\chi^2/\text{NDF}: 138.2/35$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

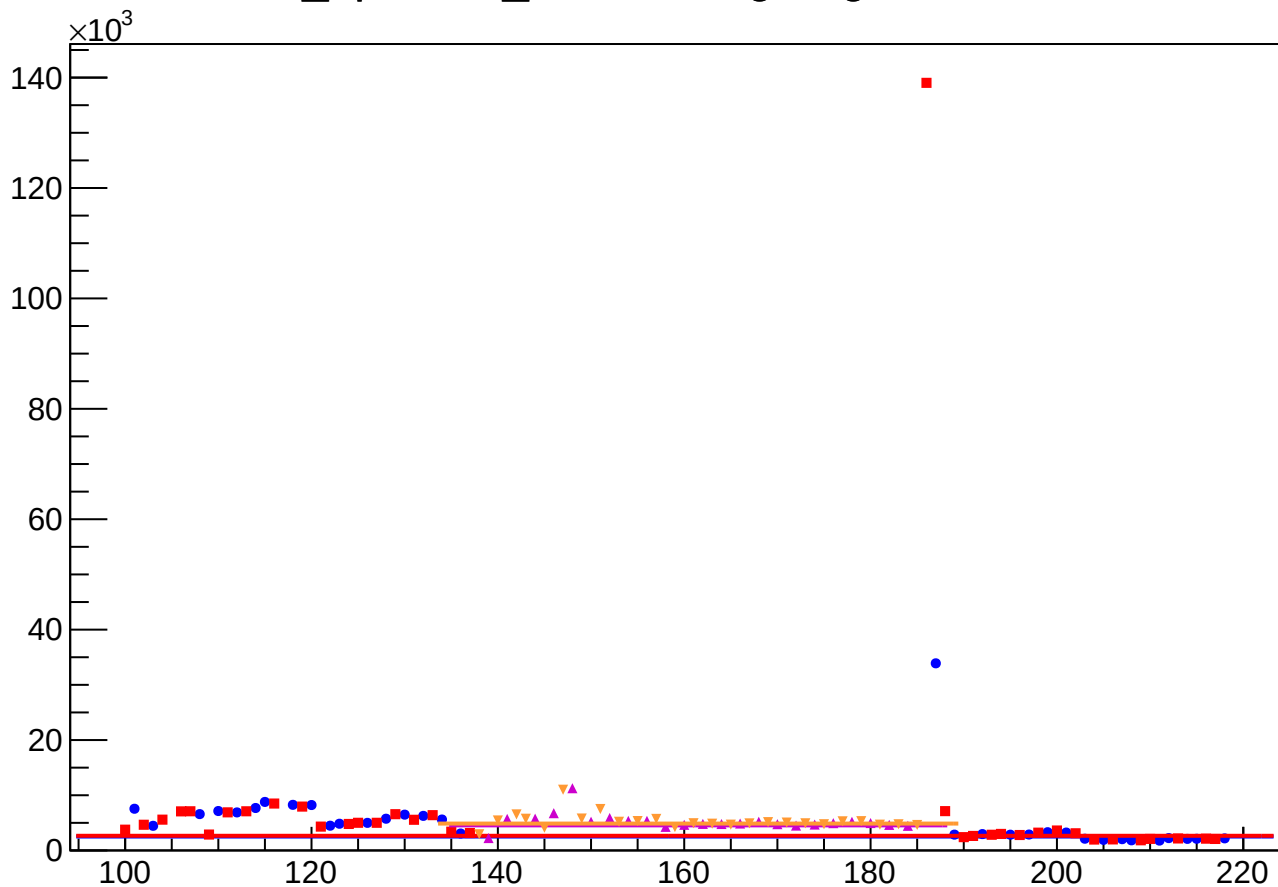
Right: -0.857 ± 0.471 $\chi^2/\text{NDF}: 200.8/68$

In: 1.174 ± 0.565 $\chi^2/\text{NDF}: 76.5/55$

Out: -2.468 ± 0.591 $\chi^2/\text{NDF}: 160.4/60$

All: -0.565 ± 0.408 $\chi^2/\text{NDF}: 256.7/116$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2522.922 ± 0.460 $\chi^2/\text{NDF}: 5544220.2/32$

Left Out: 4868.567 ± 0.829 $\chi^2/\text{NDF}: 1511151.0/24$

Right Out: 2657.633 ± 0.484 $\chi^2/\text{NDF}: 6071498.1/35$

Left In: 4544.337 ± 0.808 $\chi^2/\text{NDF}: 2634314.4/22$

Left: 4702.320 ± 0.578 $\chi^2/\text{NDF}: 4223993.0/47$

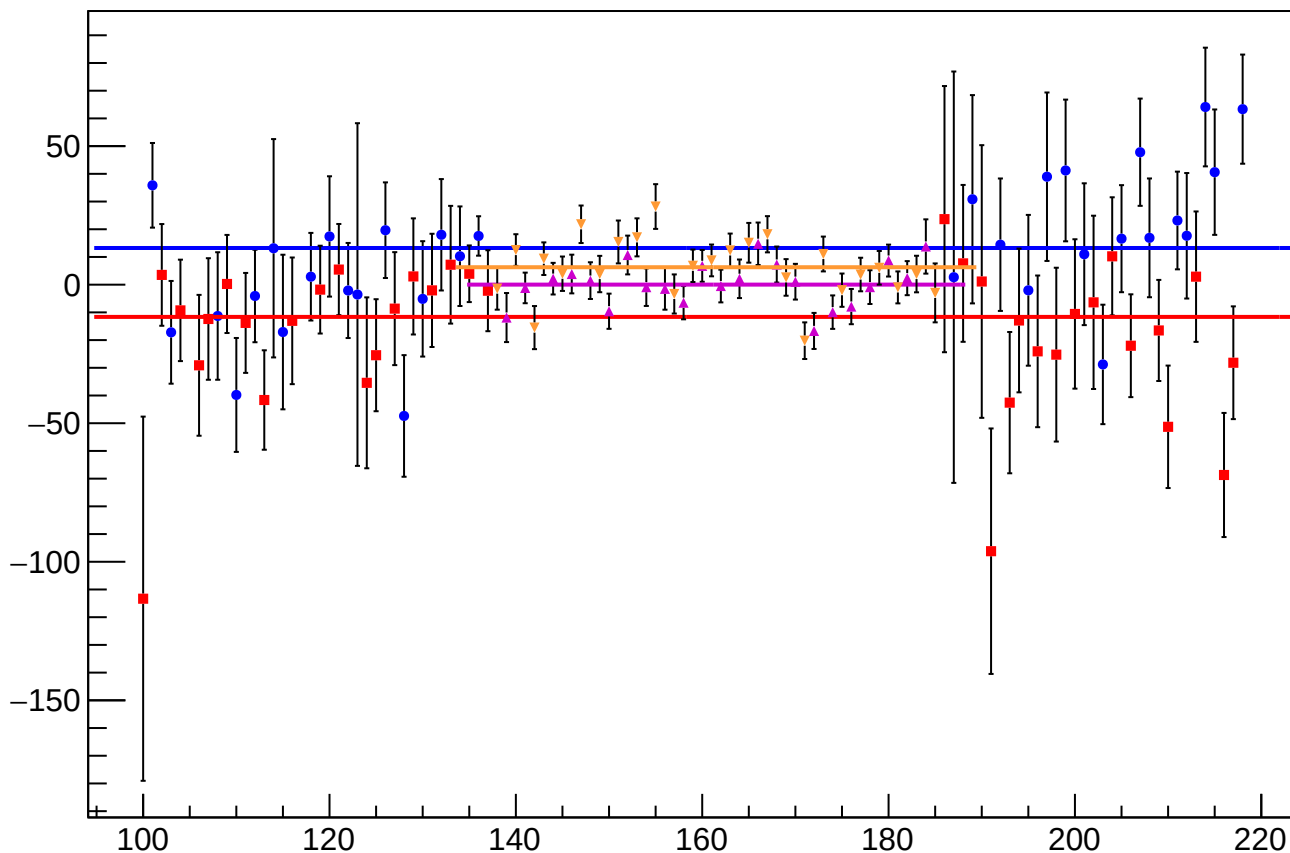
Right: 2586.817 ± 0.333 $\chi^2/\text{NDF}: 11656463.1/68$

In: 3017.424 ± 0.399 $\chi^2/\text{NDF}: 12910330.0/55$

Out: 3219.962 ± 0.418 $\chi^2/\text{NDF}: 12892773.4/60$

All: 3114.144 ± 0.289 $\chi^2/\text{NDF}: 25925866.7/117$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 13.237 $\pm$ 3.342 χ^2/NDF : 48.7/32

Left Out: 6.296 $\pm$ 1.310 χ^2/NDF : 56.5/24

Right Out: -11.630 $\pm$ 3.480 χ^2/NDF : 32.4/35

Left In: 0.020 $\pm$ 1.353 χ^2/NDF : 29.9/22

Left: 3.259 $\pm$ 0.941 χ^2/NDF : 97.5/47

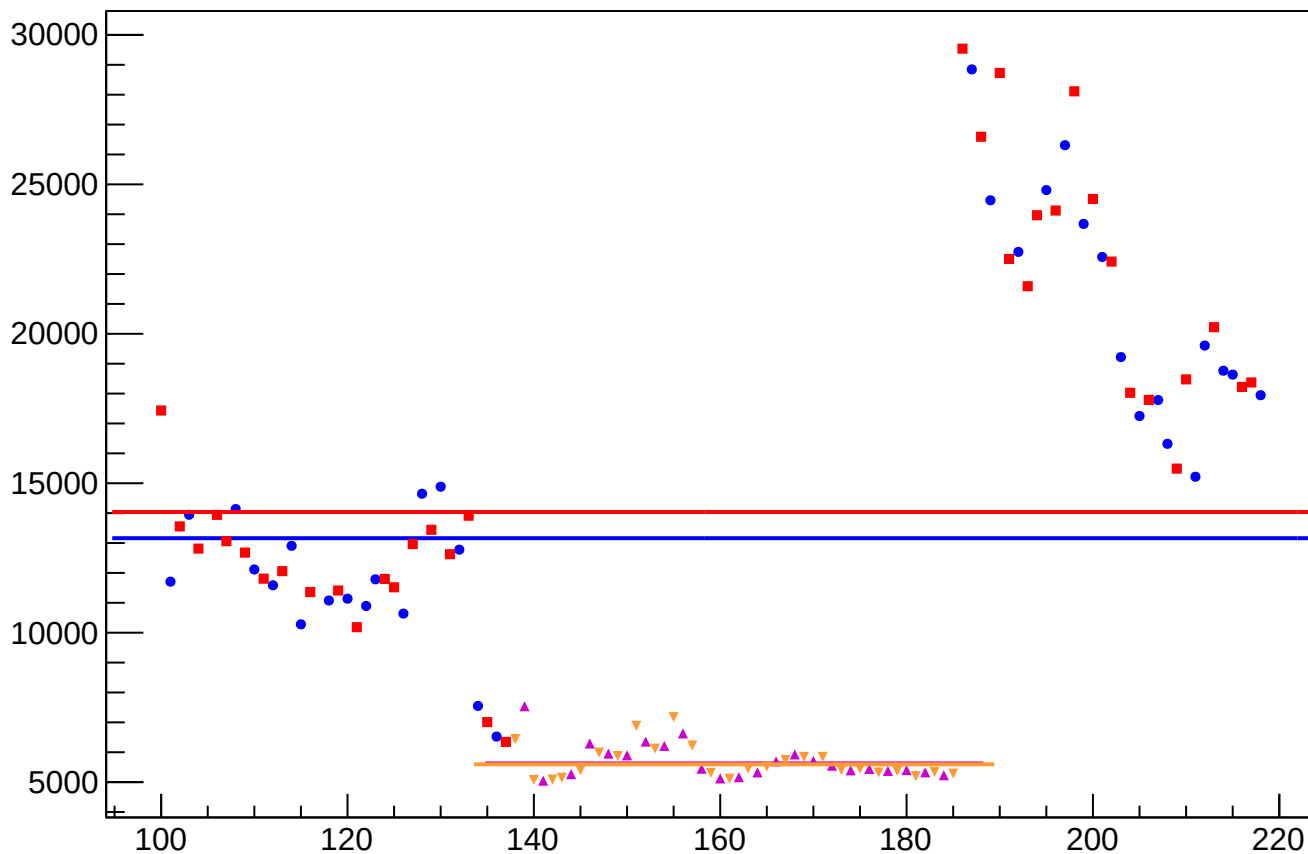
Right: 1.304 $\pm$ 2.411 χ^2/NDF : 107.7/68

In: 1.881 $\pm$ 1.254 χ^2/NDF : 92.1/55

Out: 4.070 $\pm$ 1.226 χ^2/NDF : 112.2/60

All: 3.000 $\pm$ 0.877 χ^2/NDF : 205.8/116

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13161.526 $\pm$ 2.363 χ^2/NDF : 5067569.2/32

Left Out: 5596.370 $\pm$ 0.926 χ^2/NDF : 283998.1/24

Right Out: 14037.607 $\pm$ 2.461 χ^2/NDF : 4822727.3/35

Left In: 5627.283 $\pm$ 0.957 χ^2/NDF : 279318.7/22

Left: 5611.329 $\pm$ 0.666 χ^2/NDF : 563855.6/47

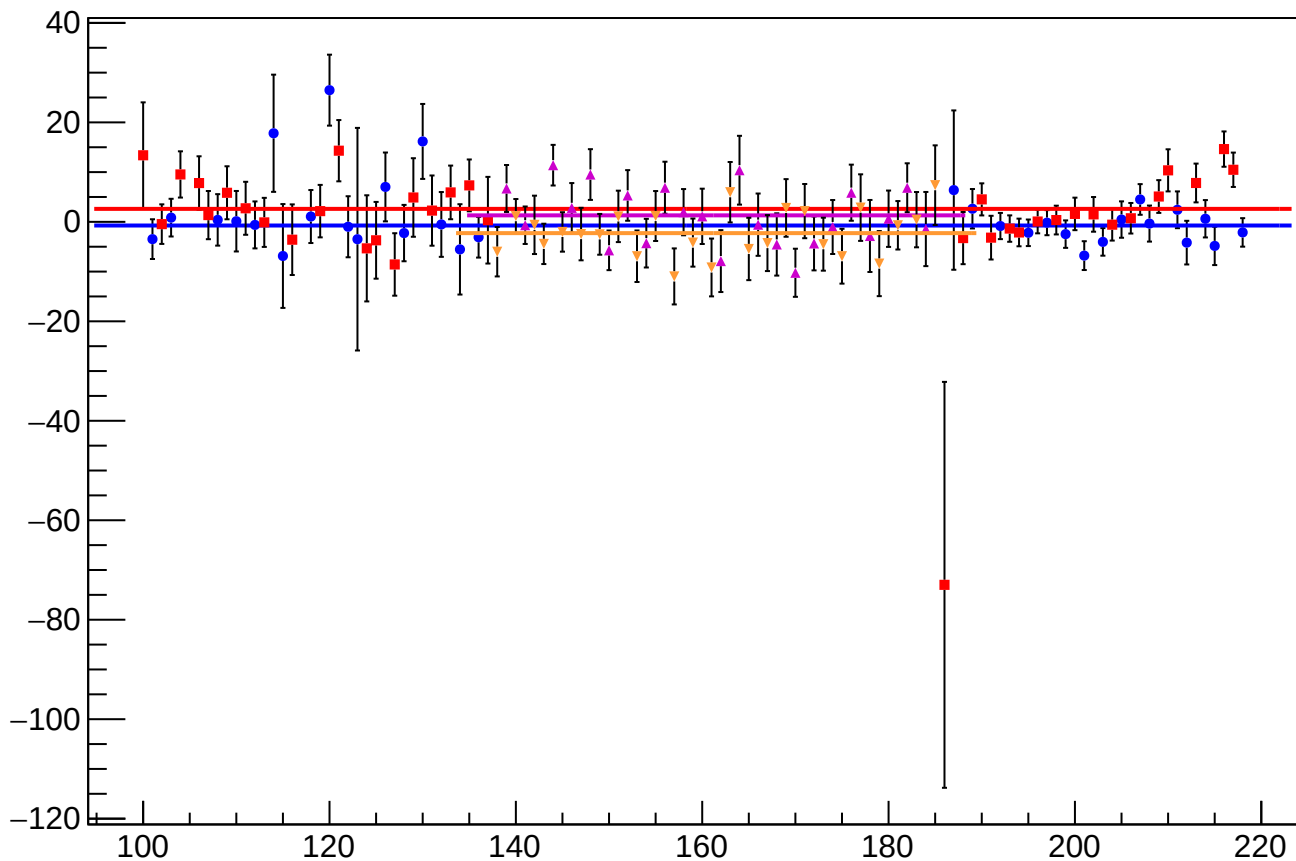
Right: 13581.936 $\pm$ 1.705 χ^2/NDF : 9956233.6/68

In: 6688.153 $\pm$ 0.887 χ^2/NDF : 14078275.6/55

Out: 6644.457 $\pm$ 0.867 χ^2/NDF : 15414612.1/60

All: 6665.811 $\pm$ 0.620 χ^2/NDF : 29494128.9/1

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.737 ± 0.701 χ^2/NDF : 38.5/32

Left Out: -2.268 ± 1.029 χ^2/NDF : 15.4/24

Right Out: 2.610 ± 0.695 χ^2/NDF : 53.2/35

Left In: 1.305 ± 1.077 χ^2/NDF : 30.8/22

Left: -0.562 ± 0.744 χ^2/NDF : 51.9/47

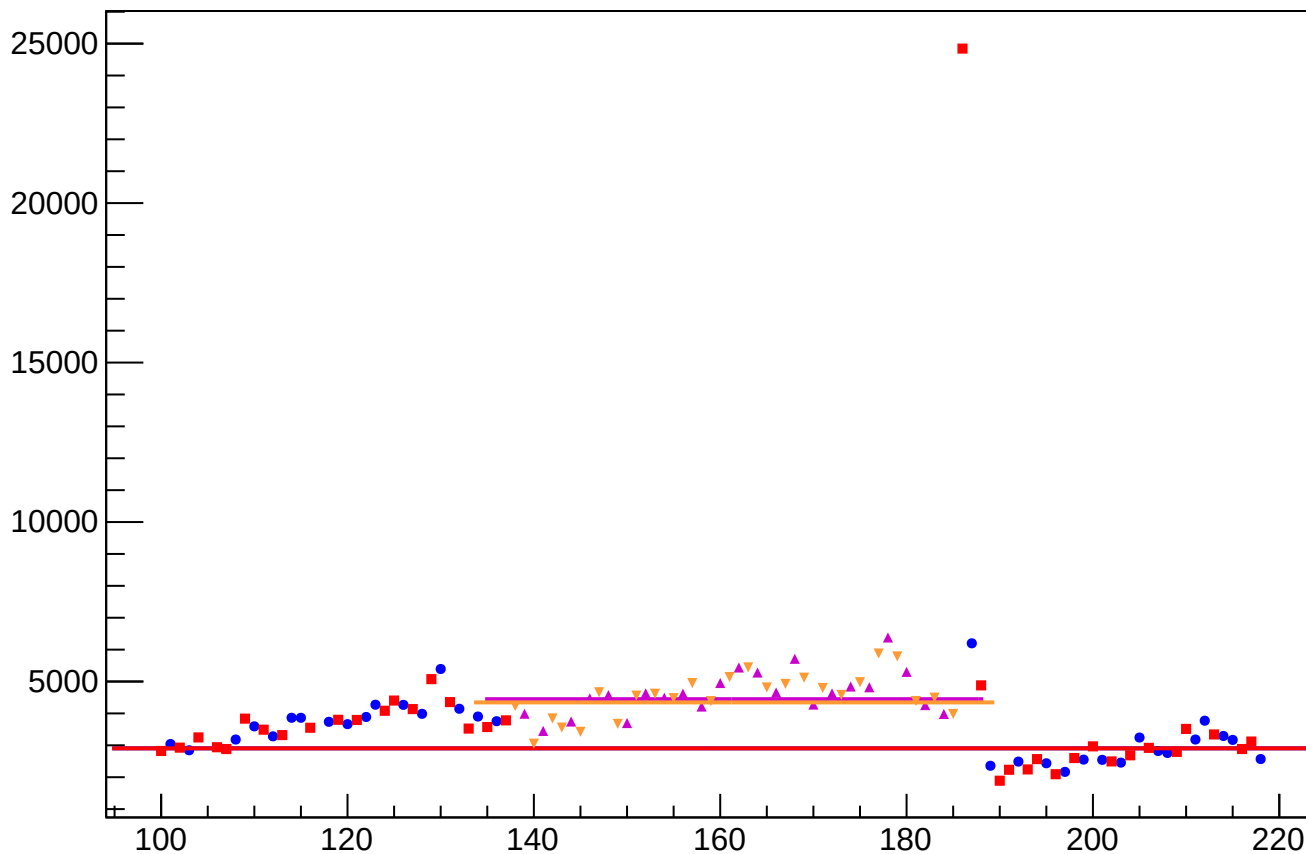
Right: 0.950 ± 0.493 χ^2/NDF : 103.2/68

In: -0.130 ± 0.587 χ^2/NDF : 71.8/55

Out: 1.082 ± 0.576 χ^2/NDF : 84.0/60

All: 0.488 ± 0.411 χ^2/NDF : 158.0/116

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2905.334+/-0.495

χ^2/NDF : 1448908.8/32

Left Out: 4345.381+/-0.728

χ^2/NDF : 1000636.1/24

Right Out: 2905.055+/-0.492

χ^2/NDF : 2346385.4/35

Left In: 4446.181+/-0.762

χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

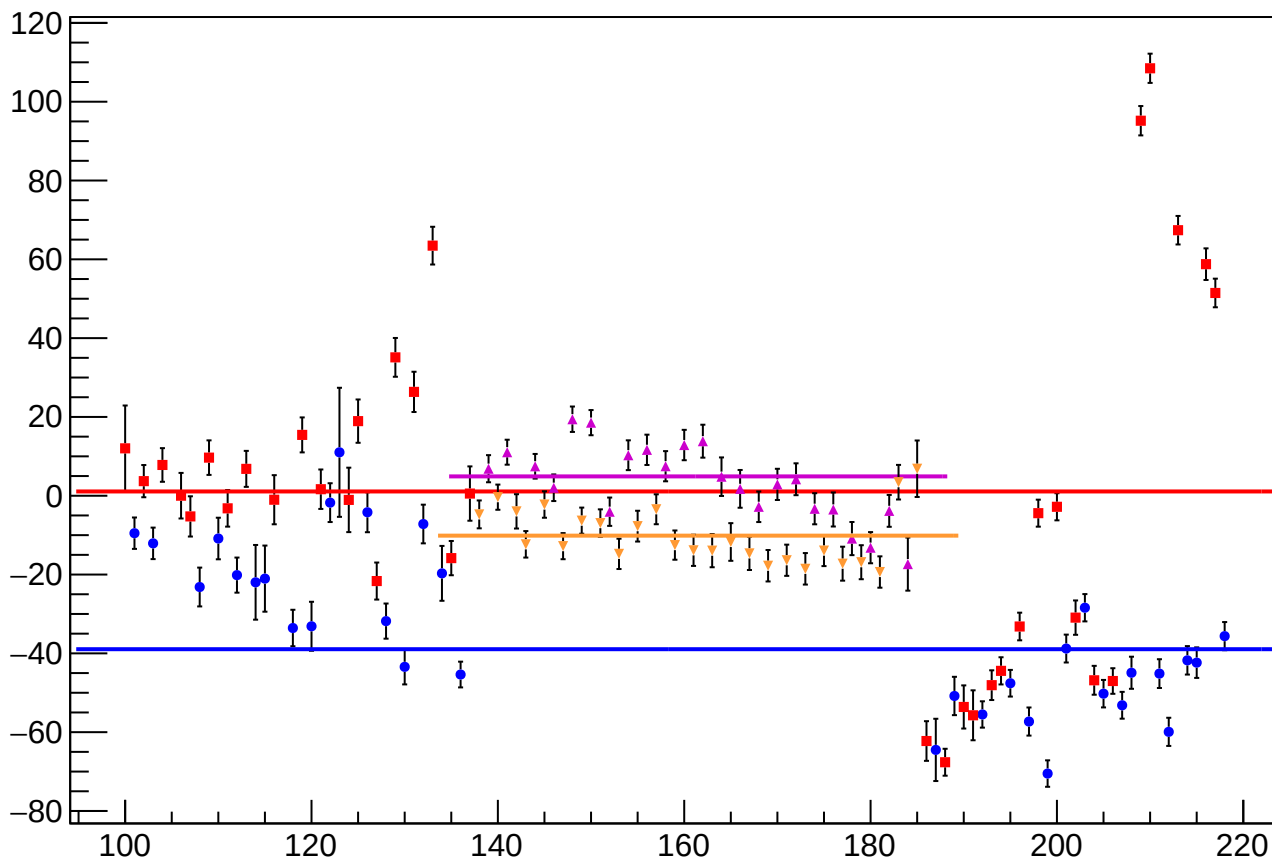
Right: 2905.194+/-0.349 χ^2/NDF : 3795294.4/68

In: 3363.455+/-0.415 χ^2/NDF : 5028000.5/55

Out: 3356.119+/-0.407 χ^2/NDF : 6036093.0/60

All: 3359.716+/-0.291 χ^2/NDF : 11064252.5/1

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -38.943 ± 0.733 $\chi^2/\text{NDF}: 577.8/32$

Left Out: -10.125 ± 0.775 $\chi^2/\text{NDF}: 67.9/24$

Right Out: 1.090 ± 0.723 $\chi^2/\text{NDF}: 4155.9/35$

Left In: 4.911 ± 0.797 $\chi^2/\text{NDF}: 127.9/22$

Left: -2.814 ± 0.556 $\chi^2/\text{NDF}: 378.7/47$

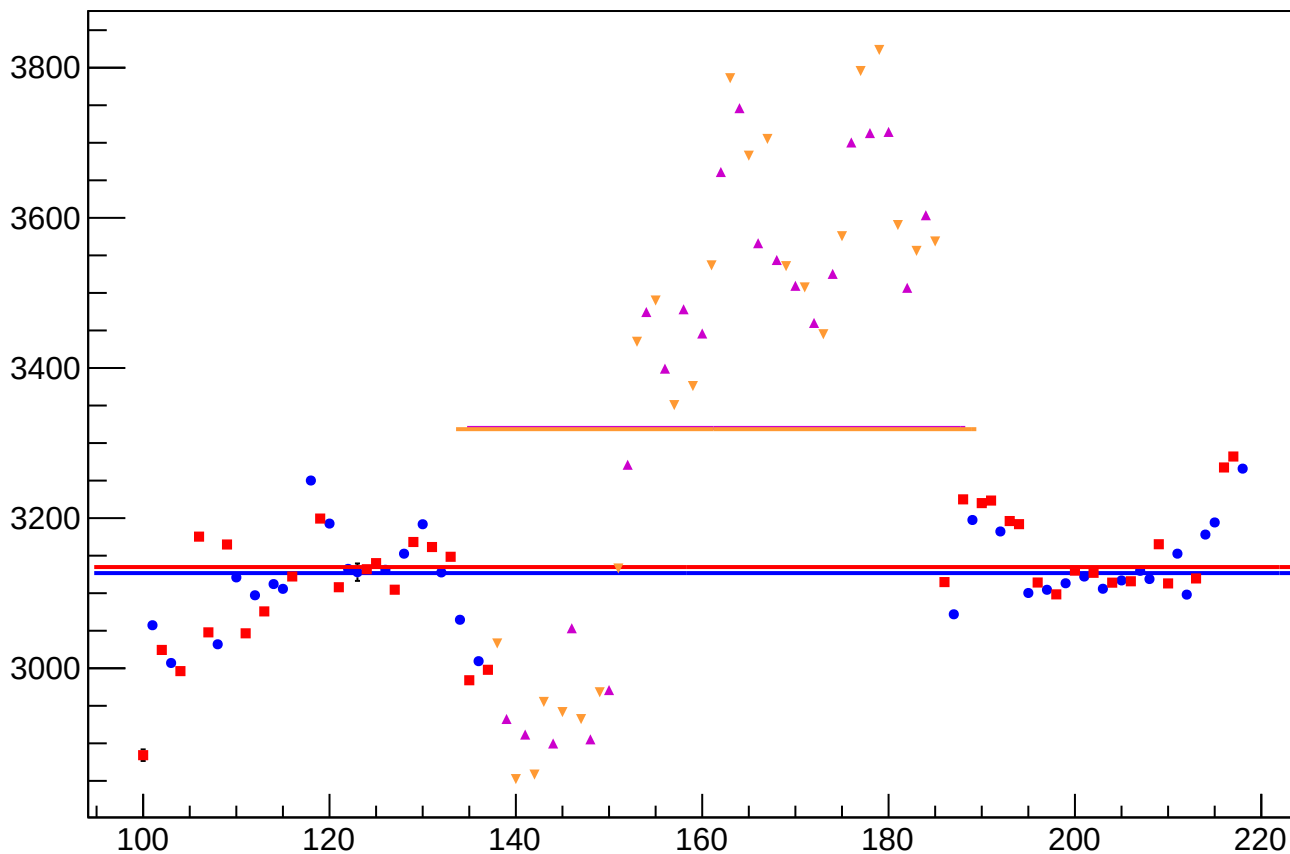
Right: -18.643 ± 0.515 $\chi^2/\text{NDF}: 6246.1/68$

In: -18.849 ± 0.540 $\chi^2/\text{NDF}: 2345.6/55$

Out: -4.123 ± 0.529 $\chi^2/\text{NDF}: 4335.8/60$

All: -11.336 ± 0.378 $\chi^2/\text{NDF}: 7061.4/116$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3126.785 $\pm$ 0.518 χ^2 /NDF: 13812.6/32

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3134.830 $\pm$ 0.511 χ^2 /NDF: 19918.6/35

Left In: 3320.170 $\pm$ 0.564 χ^2 /NDF:287634.9/22

Left: 3319.315 $\pm$ 0.393 χ^2 /NDF: 625333.6/47

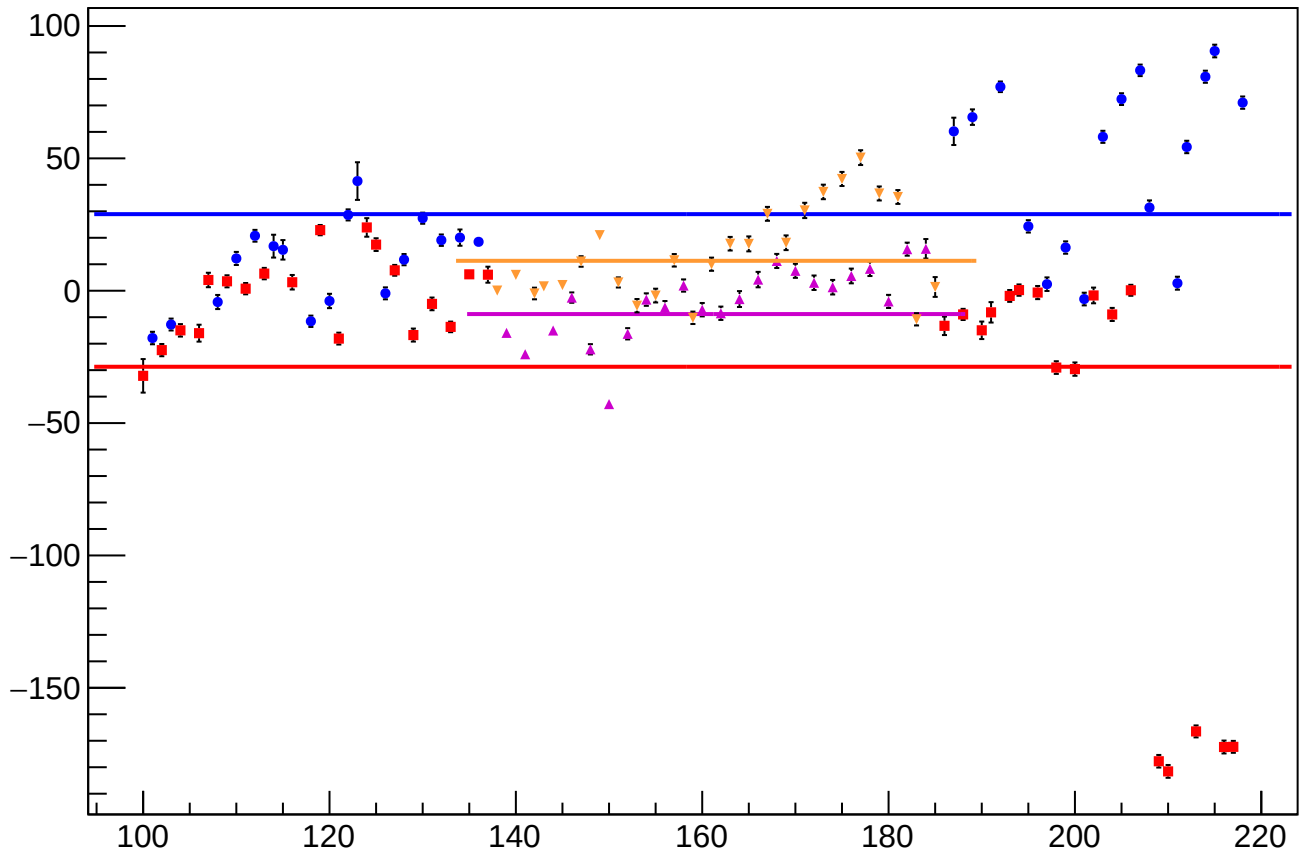
Right: 3130.864 $\pm$ 0.364 χ^2 /NDF: 33853.4/68

In: 3215.394 $\pm$ 0.382 χ^2 /NDF:365224.1/55

Out: 3220.212 $\pm$ 0.374 χ^2 /NDF:417659.9/60

All: 3217.852 $\pm$ 0.267 χ^2 /NDF: 782965.4/116

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 28.929+/-0.412 χ^2/NDF : 5802.7/32

Left Out: 11.305+/-0.454 χ^2/NDF : 1144.3/24

Right Out: -28.719+/-0.404 χ^2/NDF : 23385.2/35

Left In: -8.815+/-0.475 χ^2/NDF : 942.2/22

Left: 1.711+/-0.328 χ^2/NDF : 3023.6/47

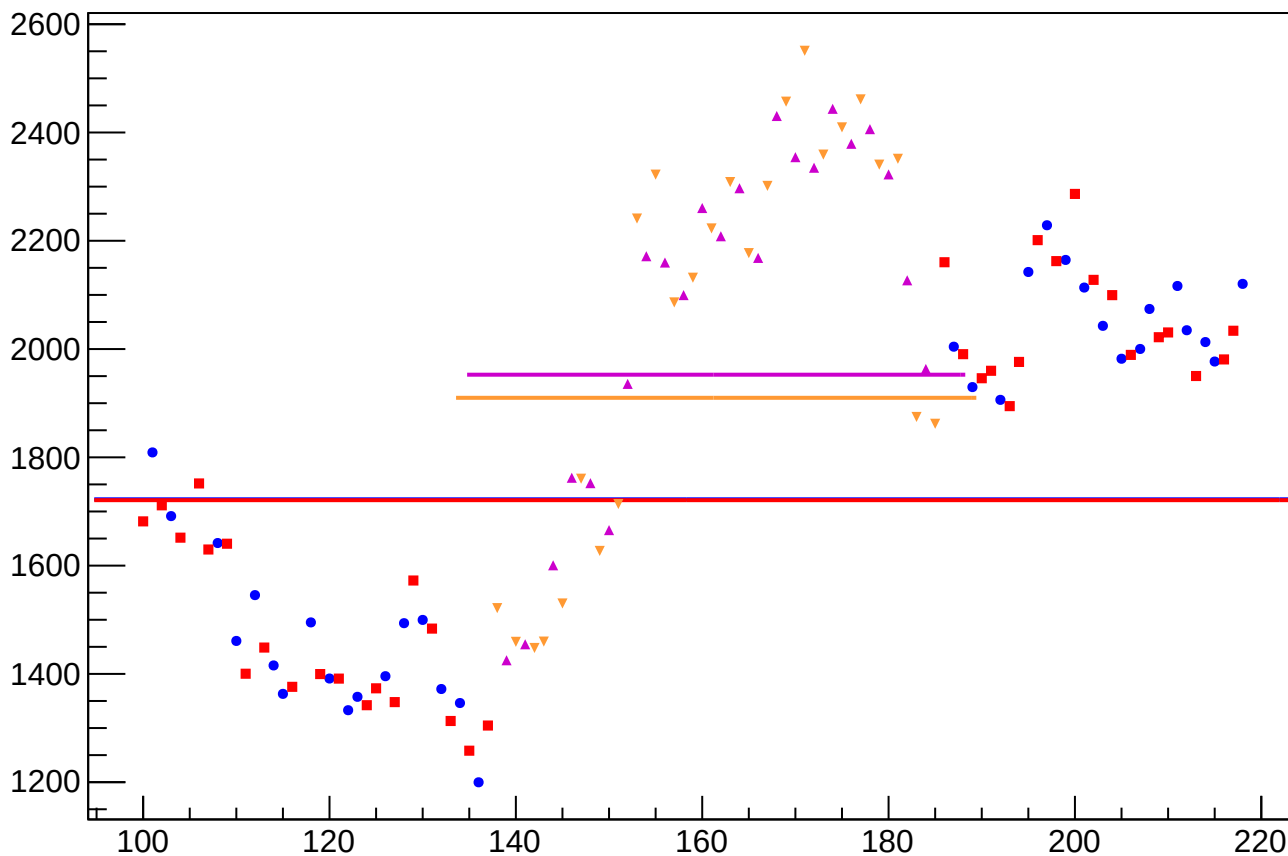
Right: -0.452+/-0.288 χ^2/NDF : 39168.2/68

In: 12.741+/-0.311 χ^2/NDF : 10345.2/55

Out: -11.021+/-0.302 χ^2/NDF : 28867.6/60

All: 0.490+/-0.217 χ^2/NDF : 42216.2/116

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1722.478 ± 0.291 $\chi^2/\text{NDF}: 1318385.9/32$

Left Out: 1909.963 ± 0.321 $\chi^2/\text{NDF}: 1399467.7/24$

Right Out: 1720.892 ± 0.286 $\chi^2/\text{NDF}: 1248239.0/35$

Left In: 1952.637 ± 0.336 $\chi^2/\text{NDF}: 1065333.8/22$

Left: 1930.313 ± 0.232 $\chi^2/\text{NDF}: 2473233.3/47$

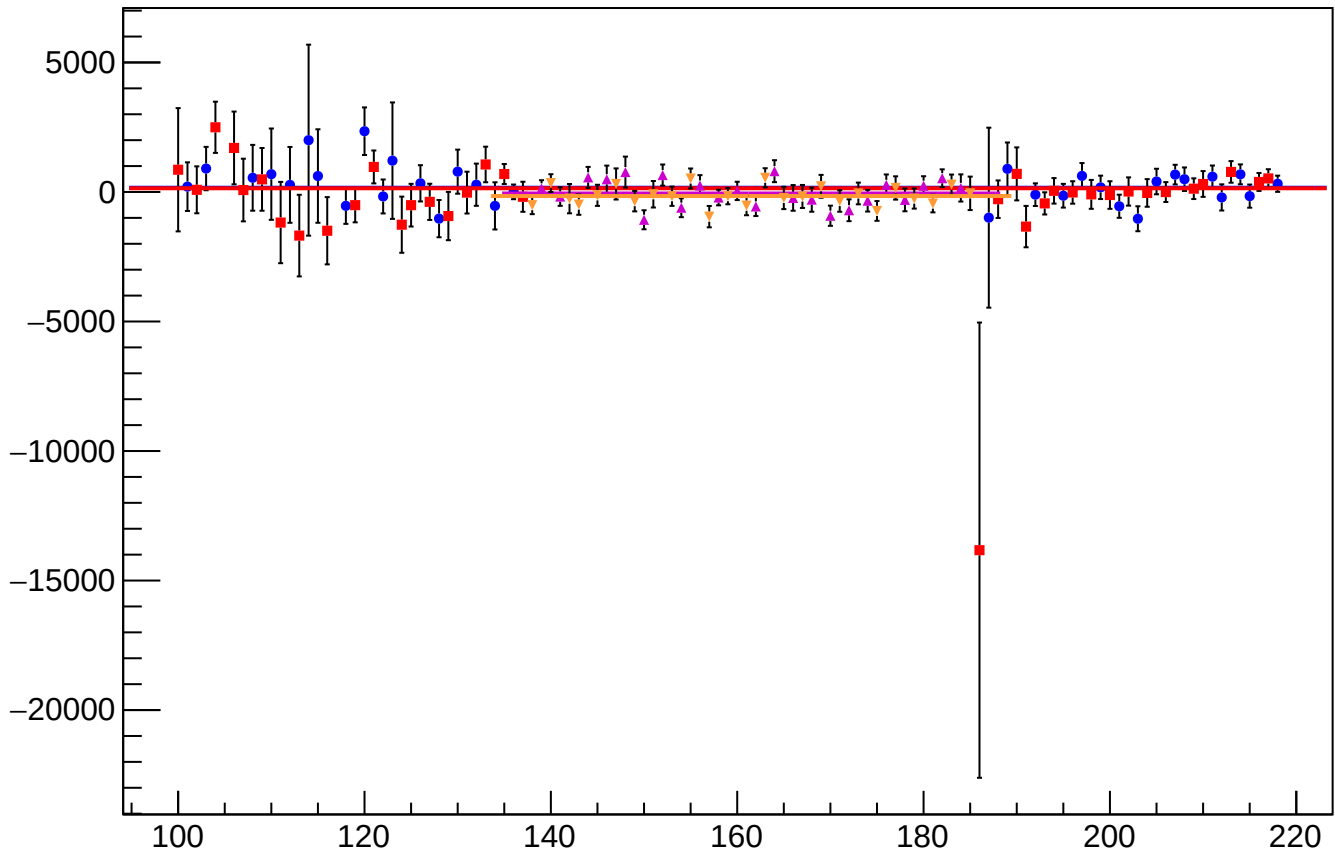
Right: 1721.670 ± 0.204 $\chi^2/\text{NDF}: 2566640.0/68$

In: 1821.193 ± 0.220 $\chi^2/\text{NDF}: 2651476.9/55$

Out: 1804.494 ± 0.213 $\chi^2/\text{NDF}: 2841329.1/60$

All: 1812.584 ± 0.153 $\chi^2/\text{NDF}: 5495772.5/11$

asym_sam1_mean vs Slug, Sign Corrected



Right In: 163.390 $\pm$ 96.541 χ^2 /NDF: 30.4/32

Left Out: -157.242 $\pm$ 80.796 χ^2 /NDF:22.0/24

Right Out: 142.997 $\pm$ 99.312 χ^2 /NDF: 35.2/35

Left In: -58.934 $\pm$ 82.584 χ^2 /NDF:38.5/22

Left: -109.164 $\pm$ 57.753 χ^2 /NDF: 61.3/47

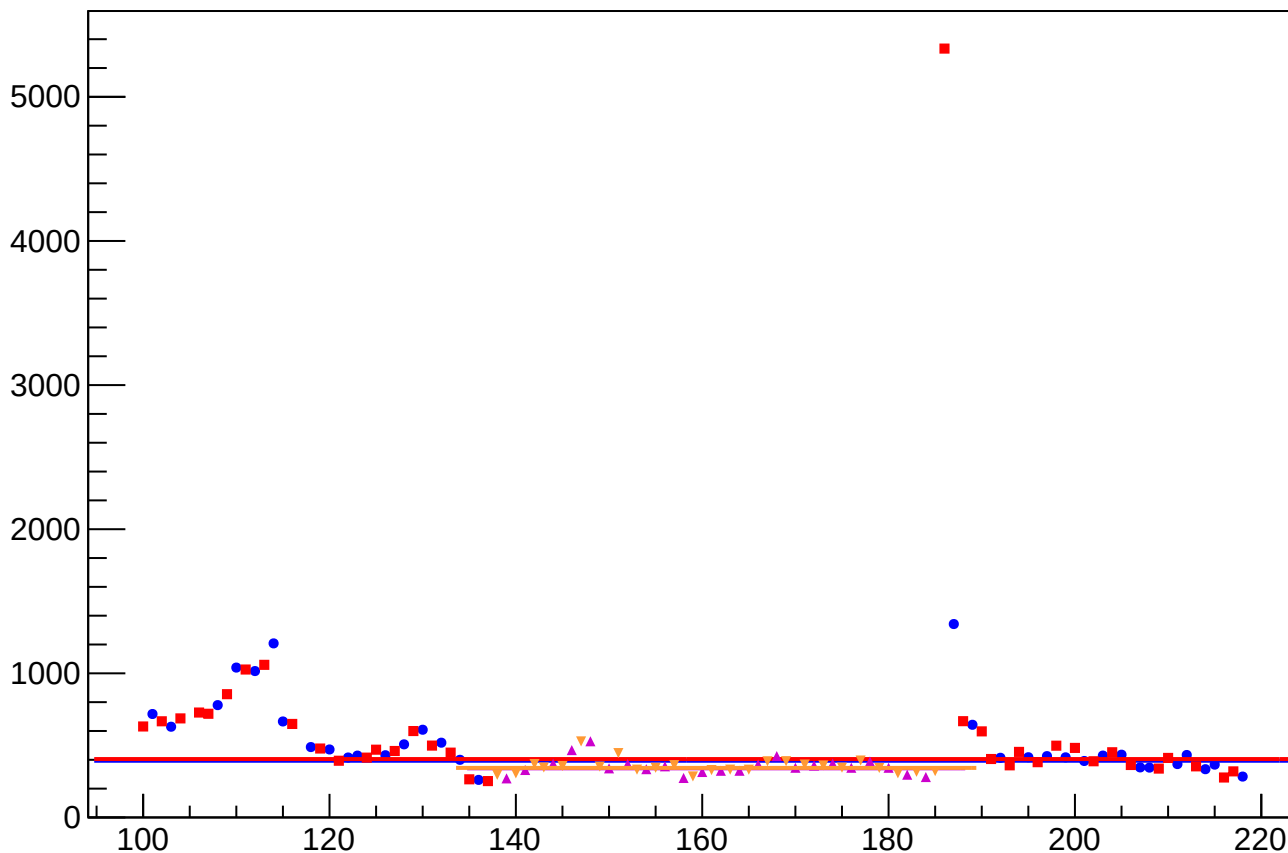
Right: 153.482 $\pm$ 69.224 χ^2 /NDF: 65.6/68

In: 35.010 $\pm$ 62.756 χ^2 /NDF:72.0/55

Out: -37.666 $\pm$ 62.674 χ^2 /NDF:62.7/60

All: -1.375 $\pm$ 44.346 χ^2 /NDF: 135.4/116

asym_sam1_rms vs Slug, Sign Corrected



Right In: 393.521+/-0.068 χ^2/NDF : 2771281.5/32

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 405.226+/-0.070 χ^2/NDF : 3790714.4/35

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

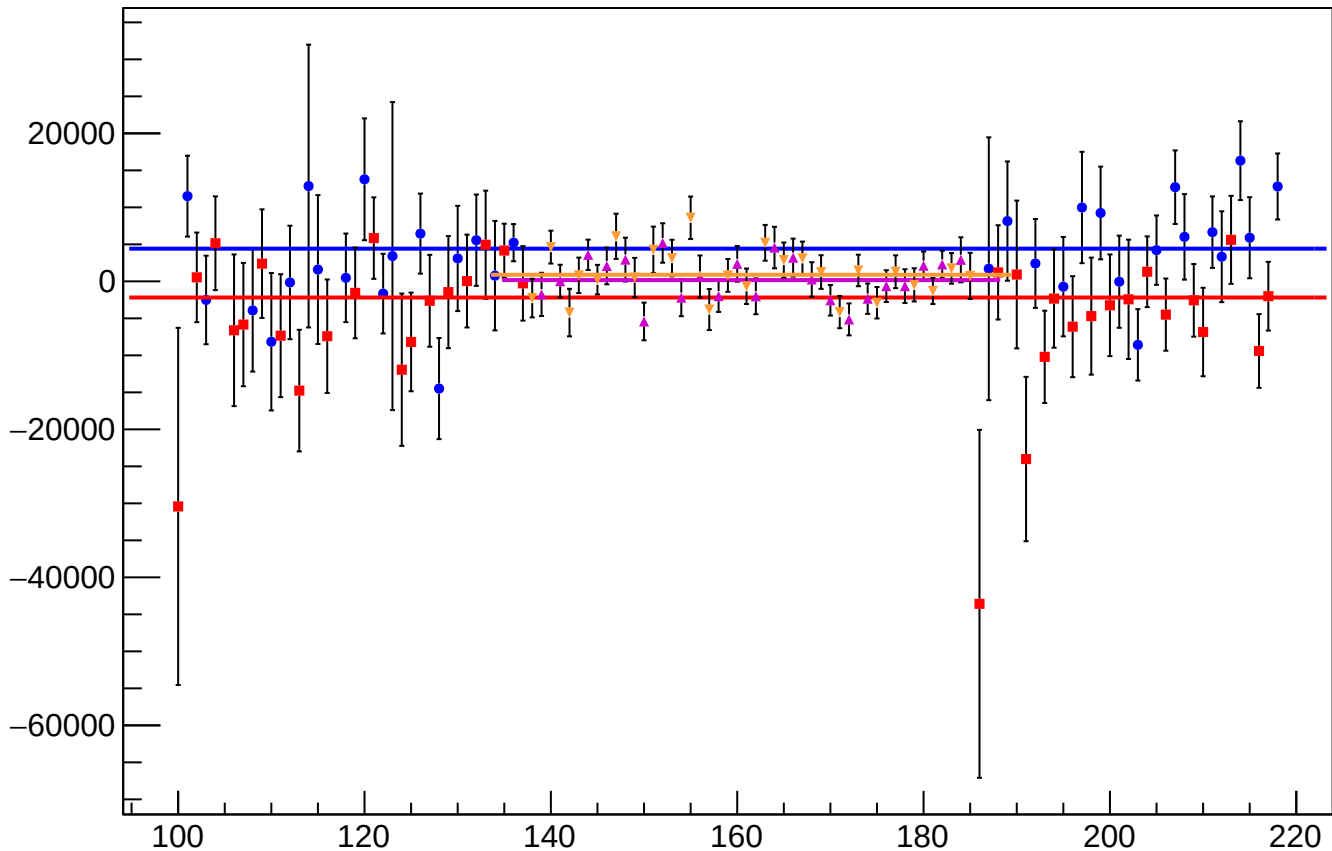
Right: 399.208+/-0.049 χ^2/NDF : 6576280.8/68

In: 363.121+/-0.044 χ^2/NDF : 3839369.0/55

Out: 368.268+/-0.044 χ^2/NDF : 4790443.9/60

All: 365.698+/-0.031 χ^2/NDF : 8636548.0/116

asym_sam2_mean vs Slug, Sign Corrected



Right In: 4418.980 $\pm$ 1020.823 χ^2 /NDF: 39.3/32

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -2183.081 $\pm$ 1069.473 χ^2 /NDF: 29.7/35

Left In: 172.391 $\pm$ 488.067 χ^2 /NDF:33.2/22

Left: 542.448 $\pm$ 339.760 χ^2 /NDF: 72.3/47

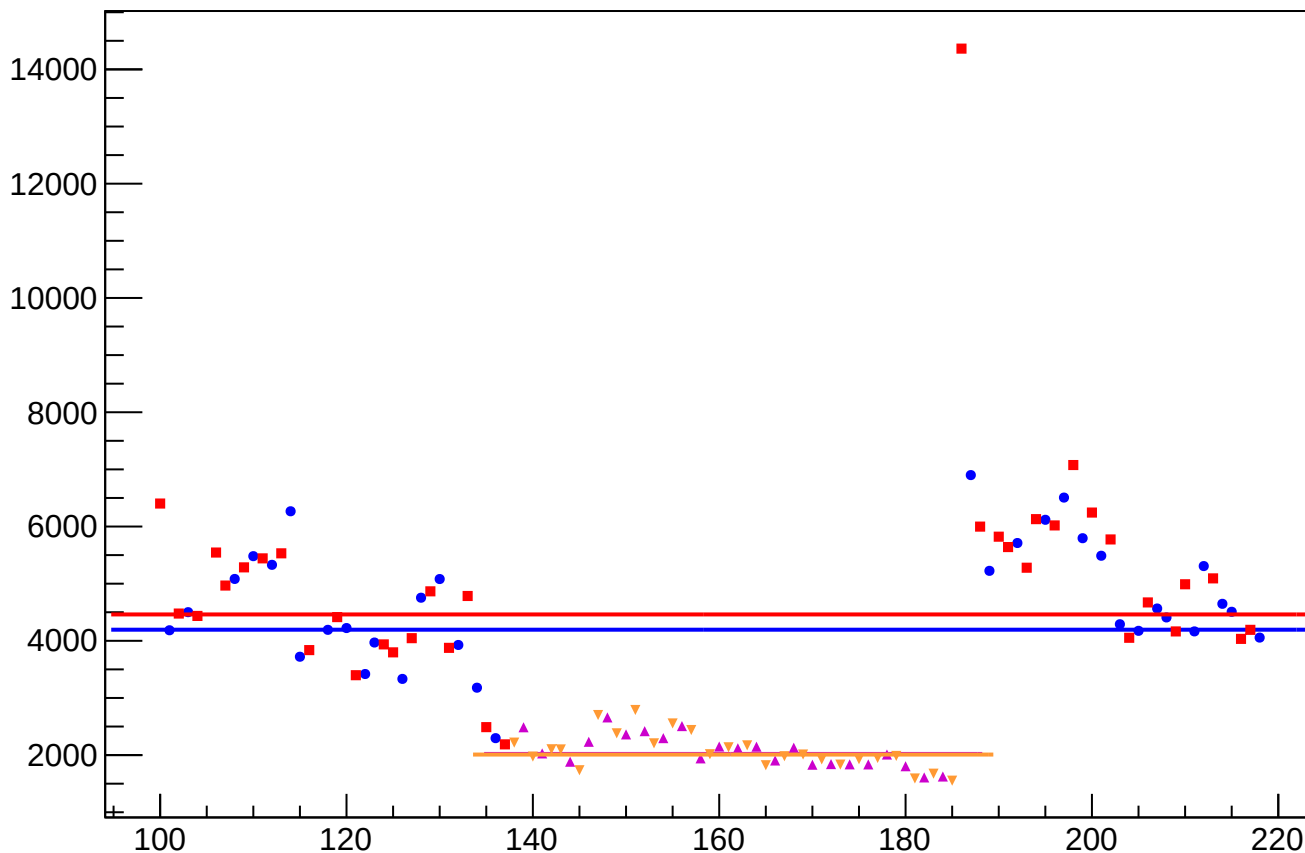
Right: 1271.524 $\pm$ 738.431 χ^2 /NDF: 88.9/68

In: 962.508 $\pm$ 440.328 χ^2 /NDF:86.6/55

Out: 387.096 $\pm$ 432.781 χ^2 /NDF:74.5/60

All: 669.829 $\pm$ 308.656 χ^2 /NDF: 162.0/116

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4194.545 $\pm$ 0.722 χ^2 /NDF: 2338785.0/32

Left Out: 2009.631 $\pm$ 0.335 χ^2 /NDF: 709977.6/24

Right Out: 4461.627 $\pm$ 0.756 χ^2 /NDF: 2563570.1/35

Left In: 2020.365 $\pm$ 0.345 χ^2 /NDF: 573483.0/22

Left: 2014.833 $\pm$ 0.240 χ^2 /NDF: 1283959.2/47

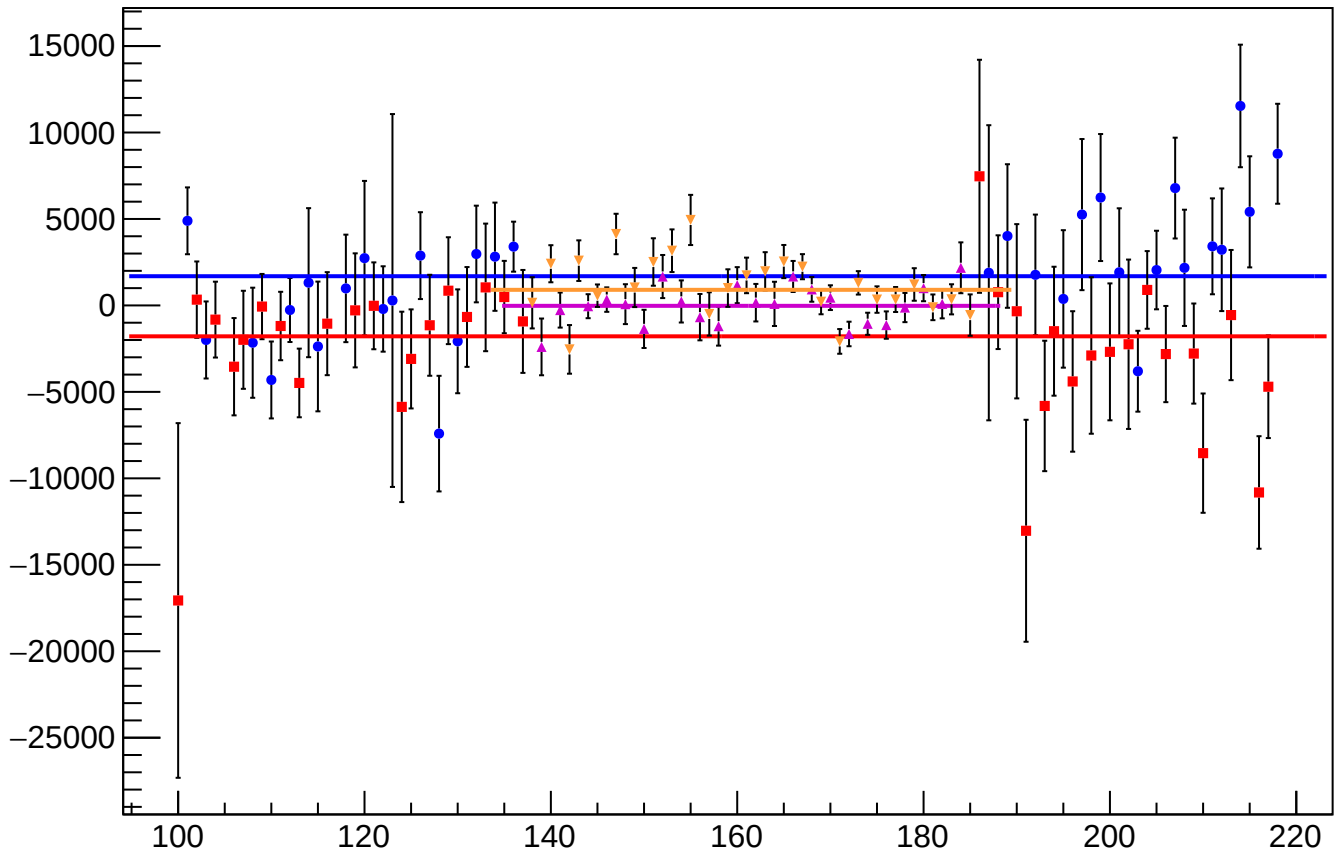
Right: 4321.873 $\pm$ 0.522 χ^2 /NDF: 4967622.9/68

In: 2424.892 $\pm$ 0.311 χ^2 /NDF: 10296626.3/55

Out: 2411.160 $\pm$ 0.306 χ^2 /NDF: 12065046.3/60

All: 2417.907 $\pm$ 0.218 χ^2 /NDF: 22362662.0/117

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1689.380+/-494.708 χ^2/NDF : 55.1/32

Left Out: 902.091+/-185.850 χ^2/NDF : 63.5/24

Right Out: -1787.114+/-494.922 χ^2/NDF : 32.4/35

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

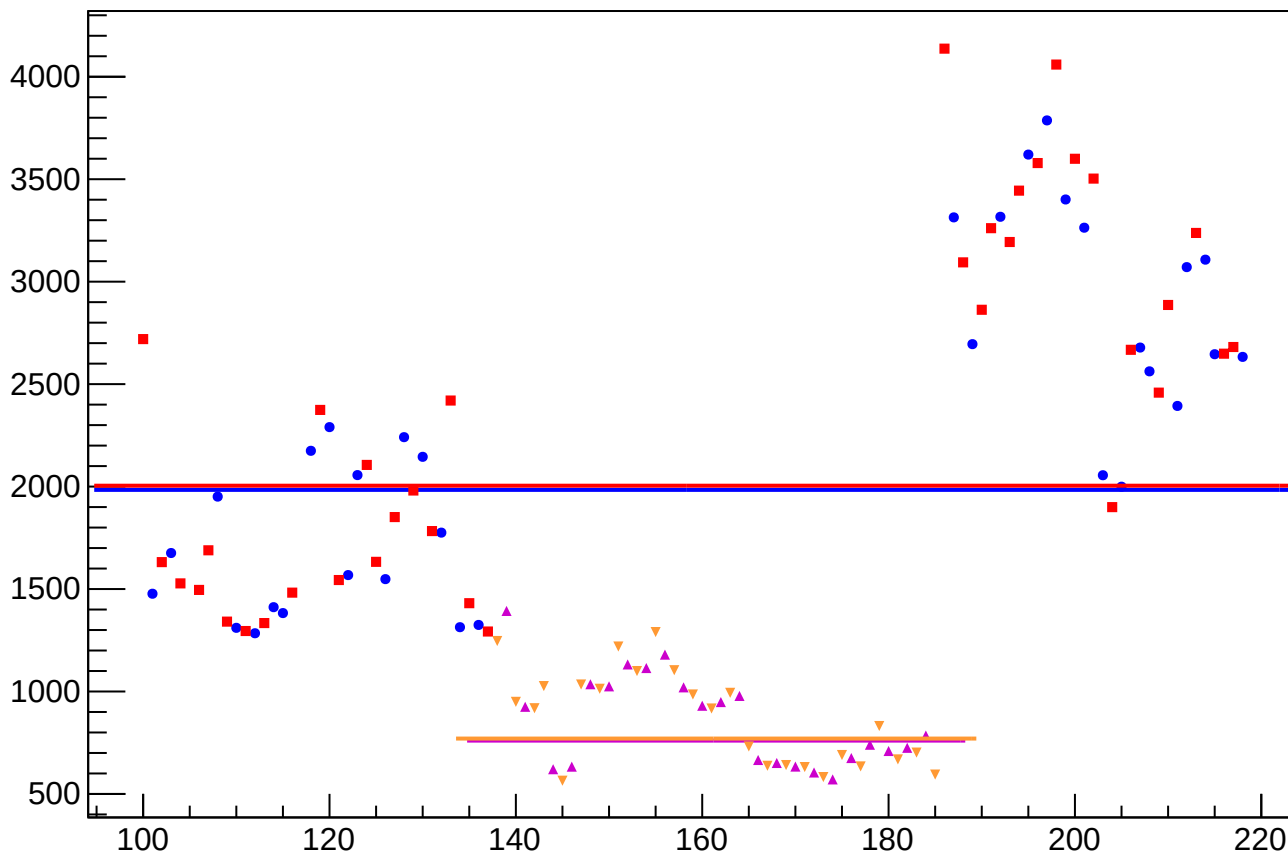
Right: -48.114+/-349.887 χ^2/NDF : 112.2/68

In: 192.902+/-175.850 χ^2/NDF : 93.8/55

Out: 569.749+/-173.987 χ^2/NDF : 121.8/60

All: 383.331+/-123.681 χ^2/NDF : 217.9/116

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1983.882 $\pm$ 0.350 χ^2 /NDF: 3810790.5/32

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF: 2287655.1/24

Right Out: 2004.330 $\pm$ 0.350 χ^2 /NDF: 4450828.0/35

Left In: 760.352 $\pm$ 0.133 χ^2 /NDF: 1986749.8/22

Left: 765.397 $\pm$ 0.093 χ^2 /NDF: 4277246.5/47

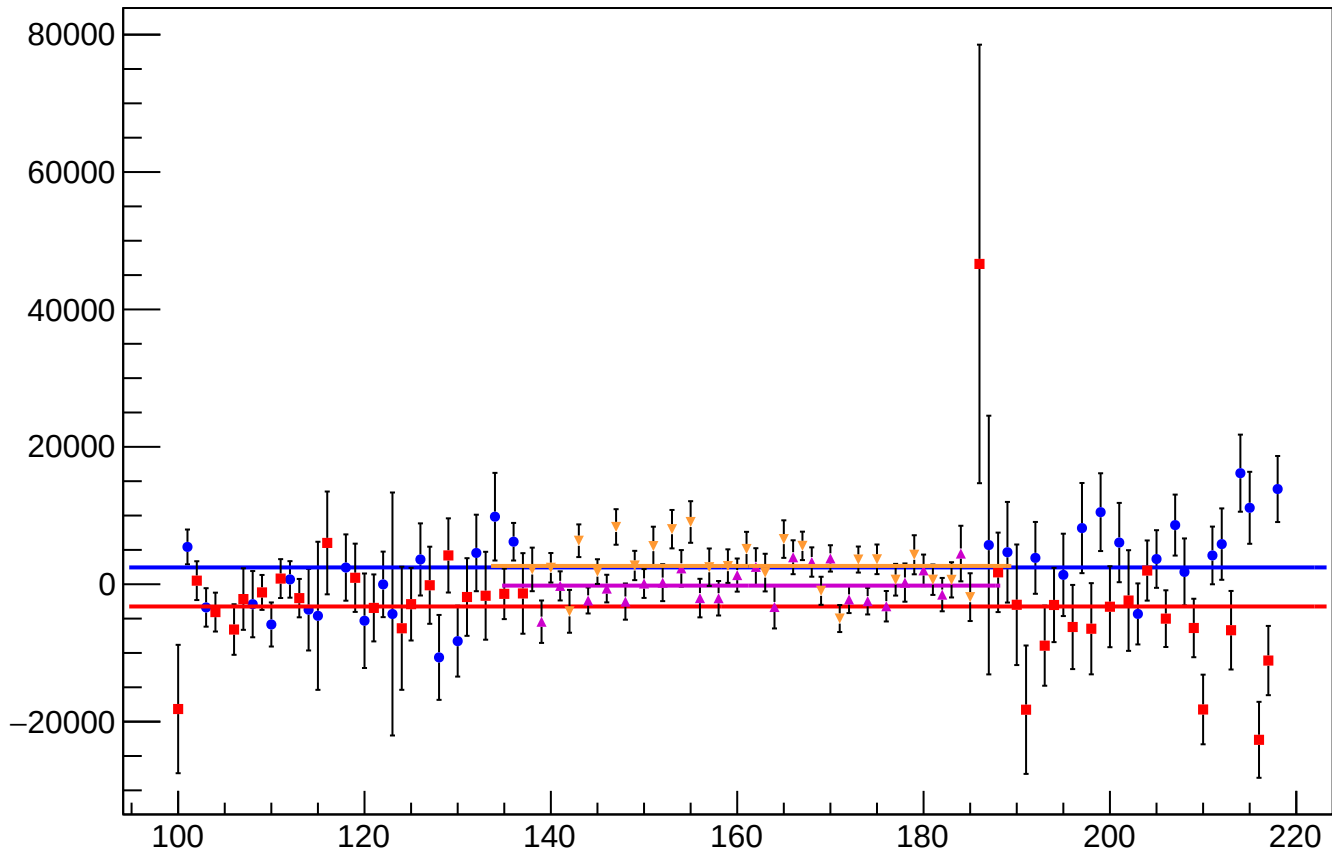
Right: 1994.102 $\pm$ 0.247 χ^2 /NDF: 8263326.2/68

In: 914.949 $\pm$ 0.124 χ^2 /NDF: 16485577.2/55

Out: 922.824 $\pm$ 0.123 χ^2 /NDF: 17635404.9/60

All: 918.928 $\pm$ 0.087 χ^2 /NDF: 34123009.1/117

asym_sam4_mean vs Slug, Sign Corrected



Right In: 2448.802 $\pm$ 795.639 χ^2 /NDF: 52.2/32

Left Out: 2665.587 $\pm$ 479.773 χ^2 /NDF: 49.2/24

Right Out: -3236.226 $\pm$ 769.195 χ^2 /NDF: 46.5/35

Left In: -199.371 $\pm$ 492.082 χ^2 /NDF: 25.8/22

Left: 1269.388 $\pm$ 343.520 χ^2 /NDF: 92.4/47

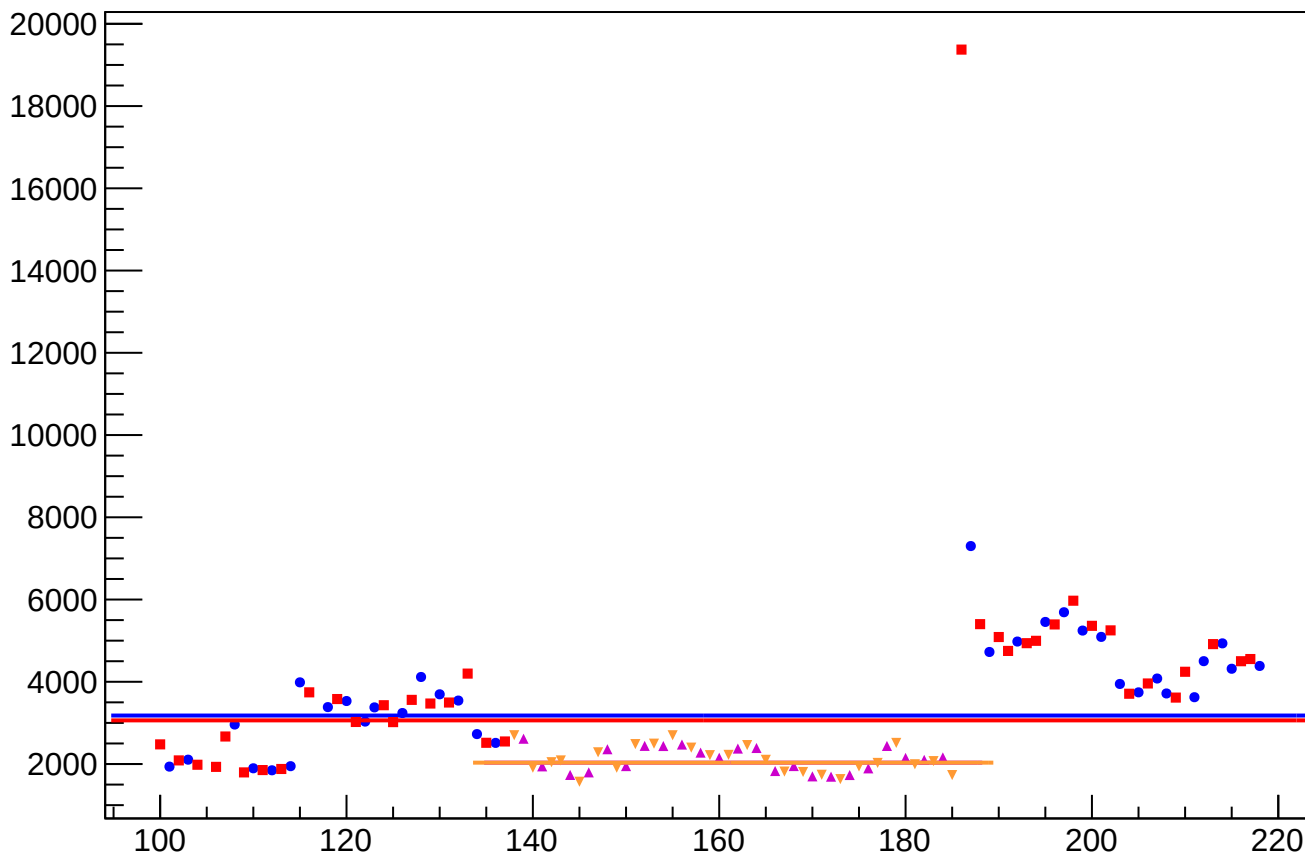
Right: -489.752 $\pm$ 553.015 χ^2 /NDF: 125.1/68

In: 533.321 $\pm$ 418.508 χ^2 /NDF: 86.0/55

Out: 1012.605 $\pm$ 407.078 χ^2 /NDF: 138.1/60

All: 779.597 $\pm$ 291.805 χ^2 /NDF: 224.7/116

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3179.117+/-0.563 χ^2/NDF : 4171605.4/32

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 3061.391+/-0.544 χ^2/NDF : 5606768.3/35

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

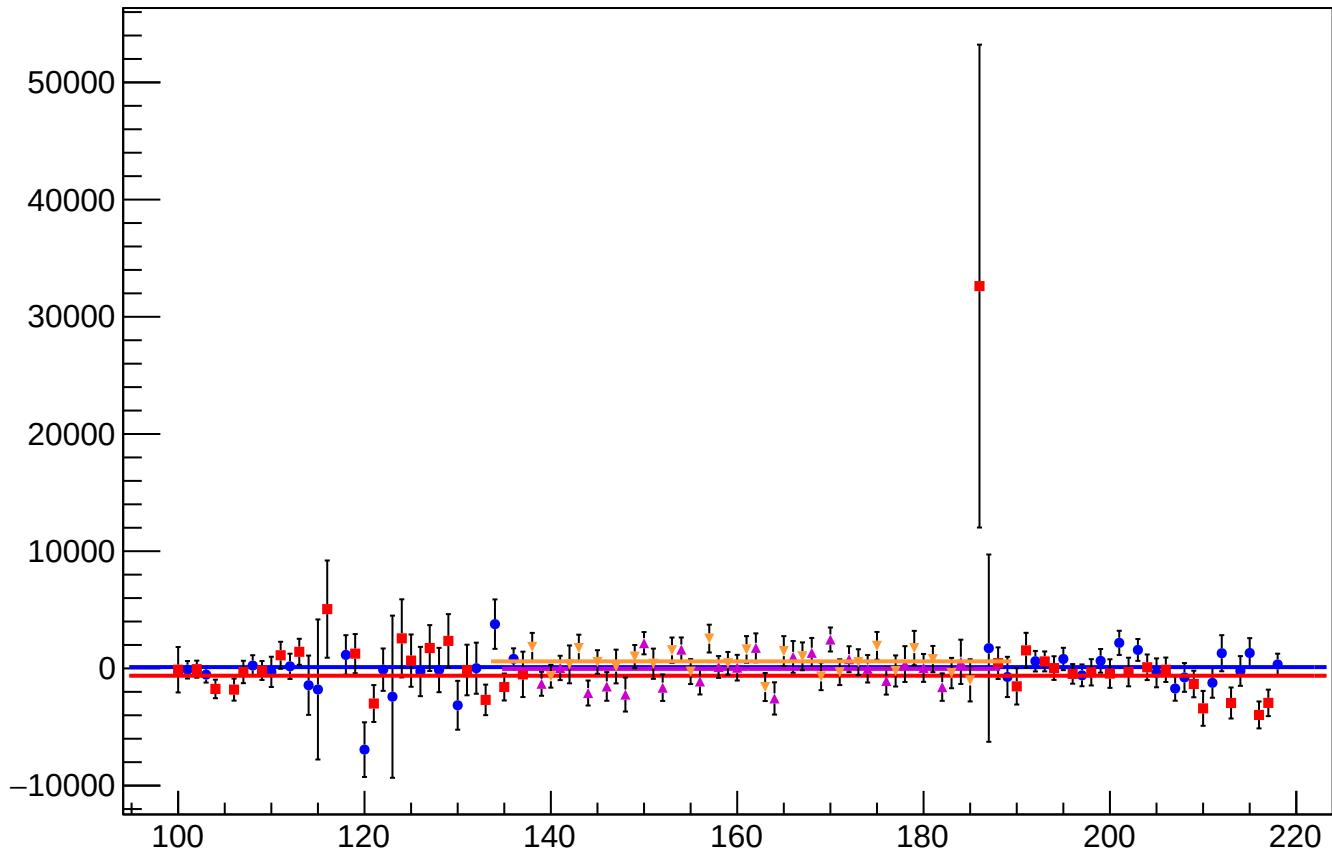
Right: 3118.265+/-0.391 χ^2/NDF : 9801006.7/68

In: 2349.856+/-0.296 χ^2/NDF : 7828020.1/55

Out: 2321.275+/-0.288 χ^2/NDF : 9002841.9/60

All: 2335.170+/-0.206 χ^2/NDF : 16835655.0/112

asym_sam5_mean vs Slug, Sign Corrected



Right In: 110.747 ± 209.138 $\chi^2/\text{NDF}: 32.3/32$

Left Out: 600.005 ± 234.968 $\chi^2/\text{NDF}: 18.5/24$

Right Out: -624.352 ± 200.318 $\chi^2/\text{NDF}: 52.1/35$

Left In: -41.559 ± 240.807 $\chi^2/\text{NDF}: 36.4/22$

Left: 287.096 ± 168.174 $\chi^2/\text{NDF}: 58.5/47$

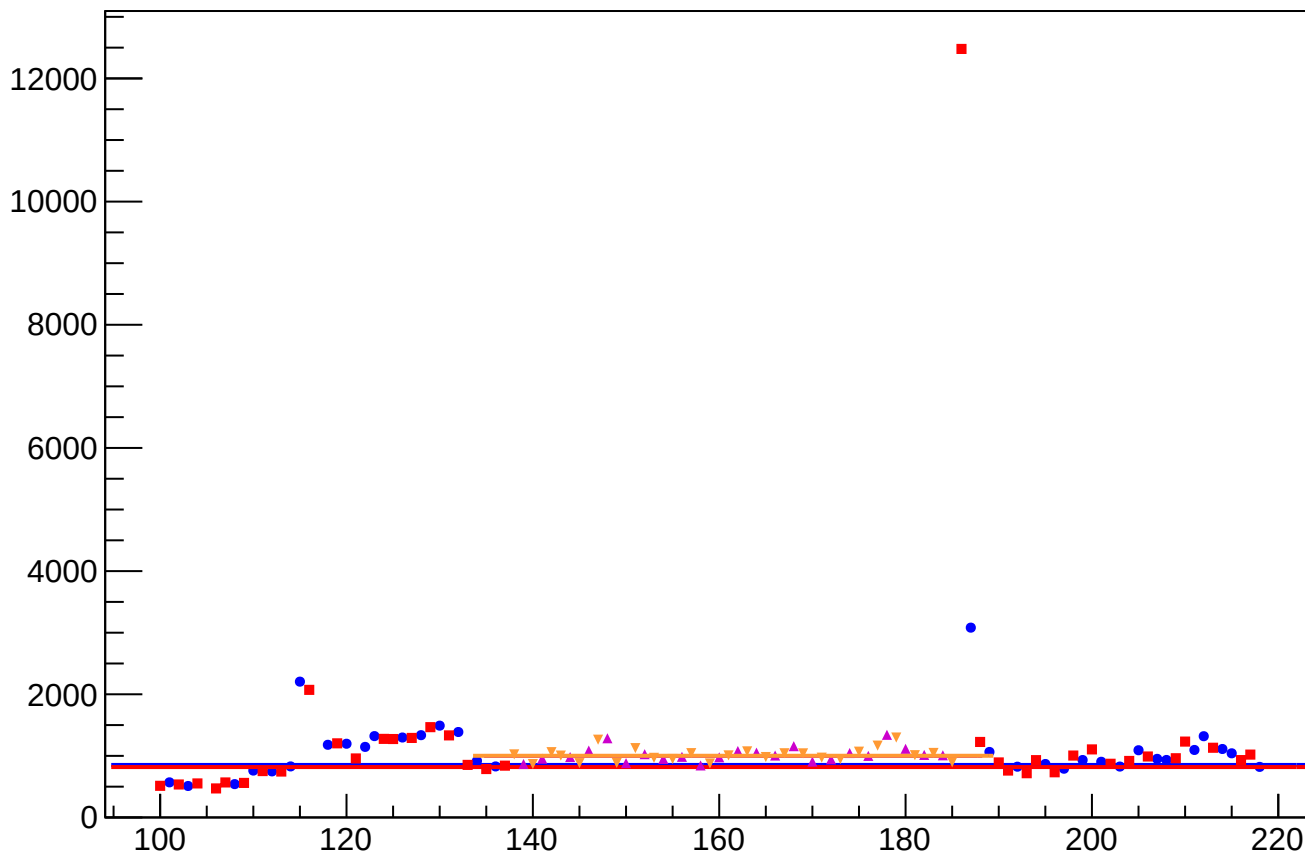
Right: -272.630 ± 144.664 $\chi^2/\text{NDF}: 90.8/68$

In: 45.261 ± 157.901 $\chi^2/\text{NDF}: 68.9/55$

Out: -109.023 ± 152.439 $\chi^2/\text{NDF}: 86.3/60$

All: -34.595 ± 109.671 $\chi^2/\text{NDF}: 155.7/116$

asym_sam5_rms vs Slug, Sign Corrected



Right In: 852.732+/-0.148 χ^2/NDF : 2590728.1/32

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 818.248+/-0.142 χ^2/NDF : 3553212.9/35

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

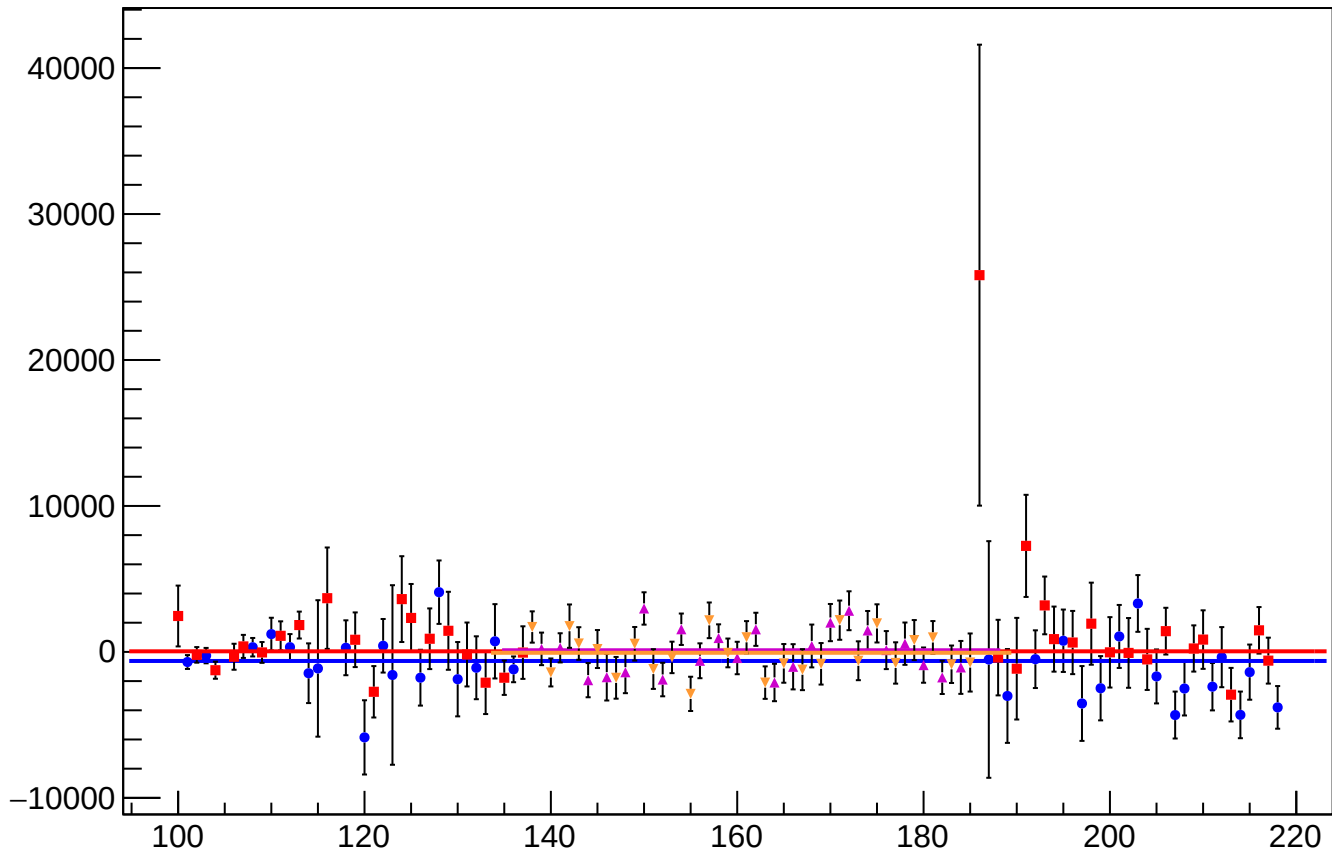
Right: 834.747+/-0.102 χ^2/NDF : 6172299.5/68

In: 915.213+/-0.112 χ^2/NDF : 3410563.1/55

Out: 895.366+/-0.108 χ^2/NDF : 4627771.0/60

All: 904.940+/-0.078 χ^2/NDF : 8054688.4/116

asym_sam6_mean vs Slug, Sign Corrected



Right In: -620.915 $\pm$ 223.241 χ^2/NDF : 43.4/32

Left Out: -59.827 $\pm$ 246.503 χ^2/NDF :31.0/24

Right Out: 40.805 $\pm$ 221.854 χ^2/NDF : 36.7/35

Left In: 112.398 $\pm$ 255.409 χ^2/NDF :34.9/22

Left: 23.230 $\pm$ 177.369 χ^2/NDF : 66.1/47

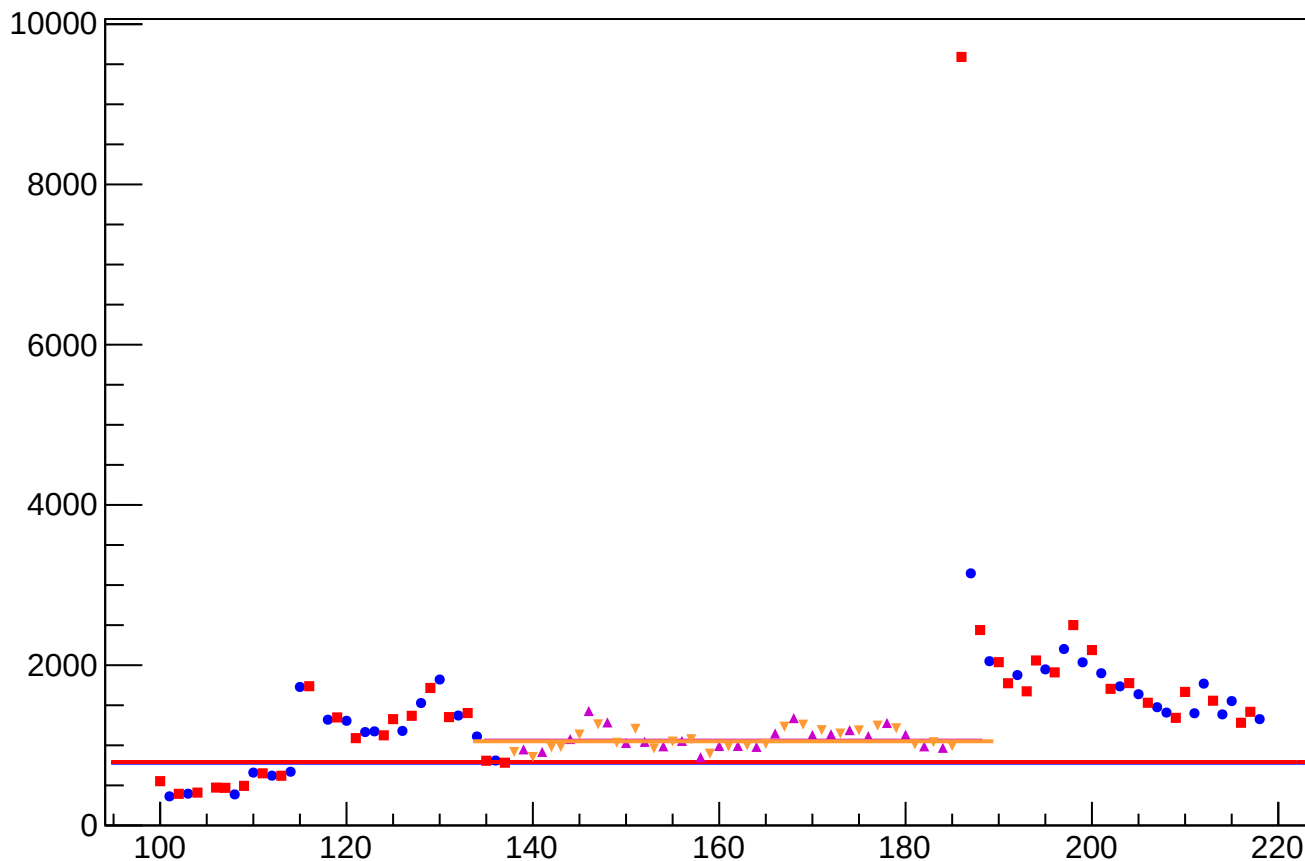
Right: -287.994 $\pm$ 157.363 χ^2/NDF : 84.5/68

In: -303.321 $\pm$ 168.085 χ^2/NDF :83.0/55

Out: -4.229 $\pm$ 164.903 χ^2/NDF :67.7/60

All: -150.917 $\pm$ 117.713 χ^2/NDF : 152.3/116

asym_sam6_rms vs Slug, Sign Corrected



Right In: 783.363+/-0.158 χ^2/NDF : 11409713.9/32

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 791.812+/-0.157 χ^2/NDF : 11702285.4/35

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

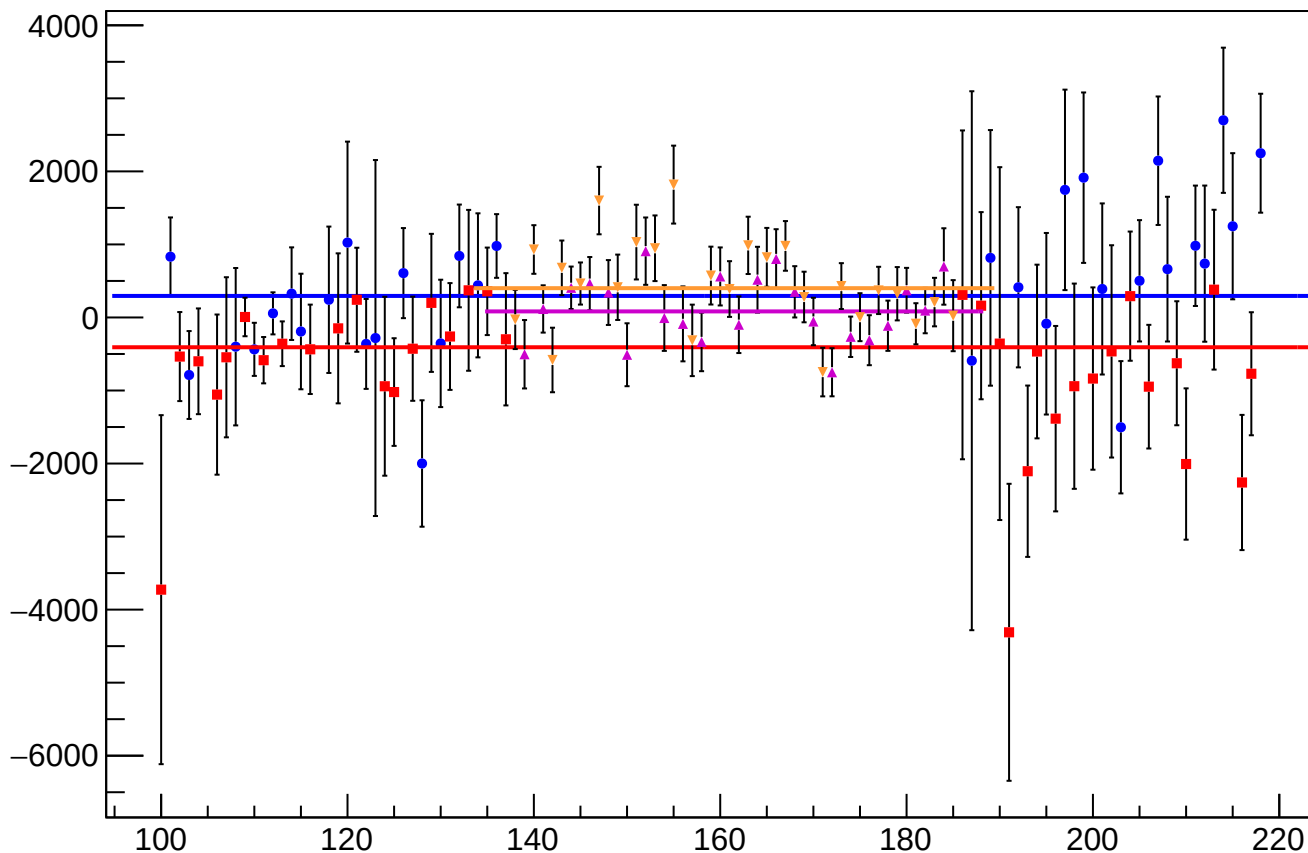
Right: 787.614+/-0.111 χ^2/NDF : 23113440.7/68

In: 902.349+/-0.119 χ^2/NDF : 13250165.2/55

Out: 907.646+/-0.117 χ^2/NDF : 13403738.9/60

All: 905.048+/-0.083 χ^2/NDF : 26654916.2/117

asym_sam7_mean vs Slug, Sign Corrected



Right In: 294.856+/-125.552 χ^2/NDF : 47.4/32

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -407.893+/-117.328 χ^2/NDF : 24.7/35

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

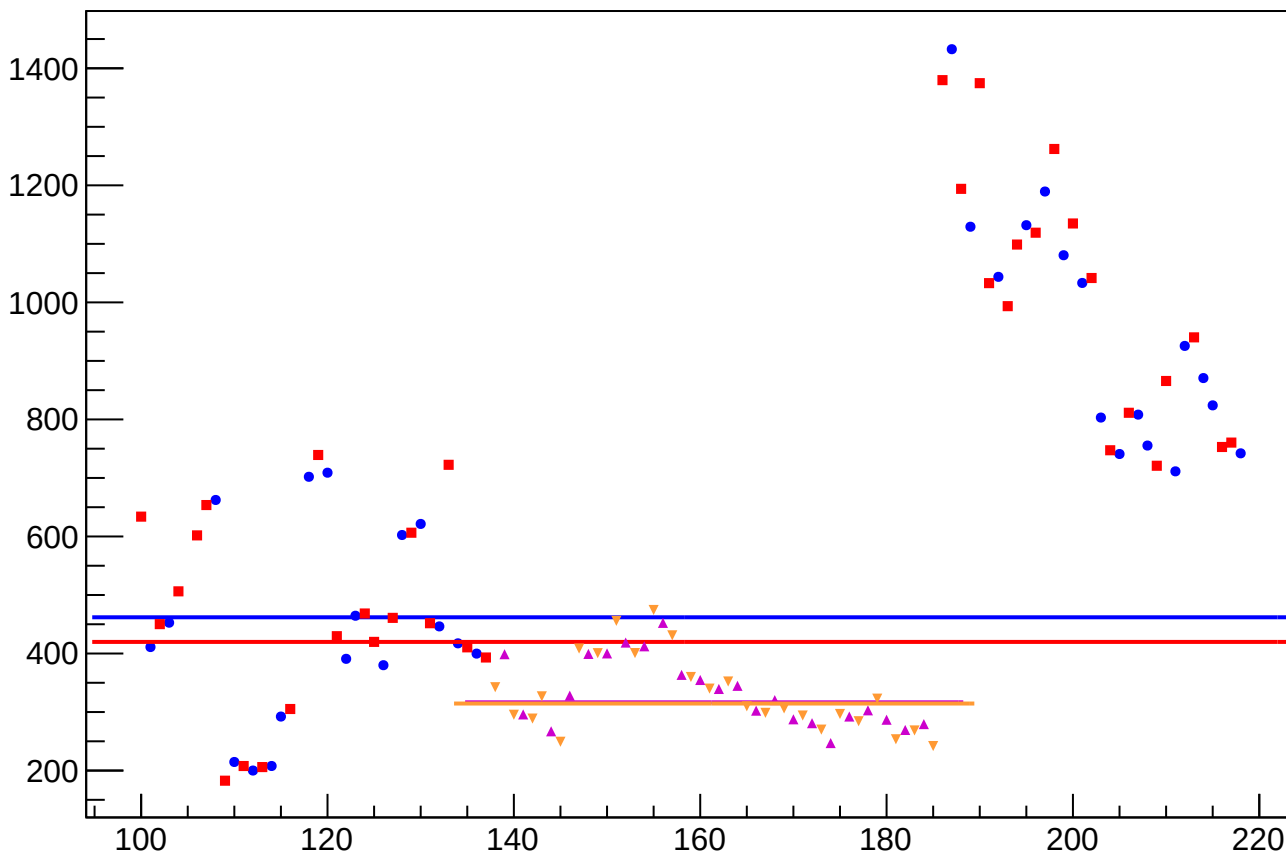
Right: -80.287+/-85.723 χ^2/NDF : 88.9/68

In: 140.720+/-65.579 χ^2/NDF : 78.5/55

Out: 168.358+/-62.920 χ^2/NDF : 110.7/60

All: 155.111+/-45.402 χ^2/NDF : 189.2/116

asym_sam7_rms vs Slug, Sign Corrected



Right In: 461.906 $\pm$ 0.089 χ^2 /NDF: 9051719.0/32

Left Out: 314.538 $\pm$ 0.053 χ^2 /NDF: 1112445.6/24

Right Out: 419.826 $\pm$ 0.083 χ^2 /NDF: 11624711.1/35

Left In: 316.647 $\pm$ 0.054 χ^2 /NDF: 920874.0/22

Left: 315.560 $\pm$ 0.038 χ^2 /NDF: 2034094.8/47

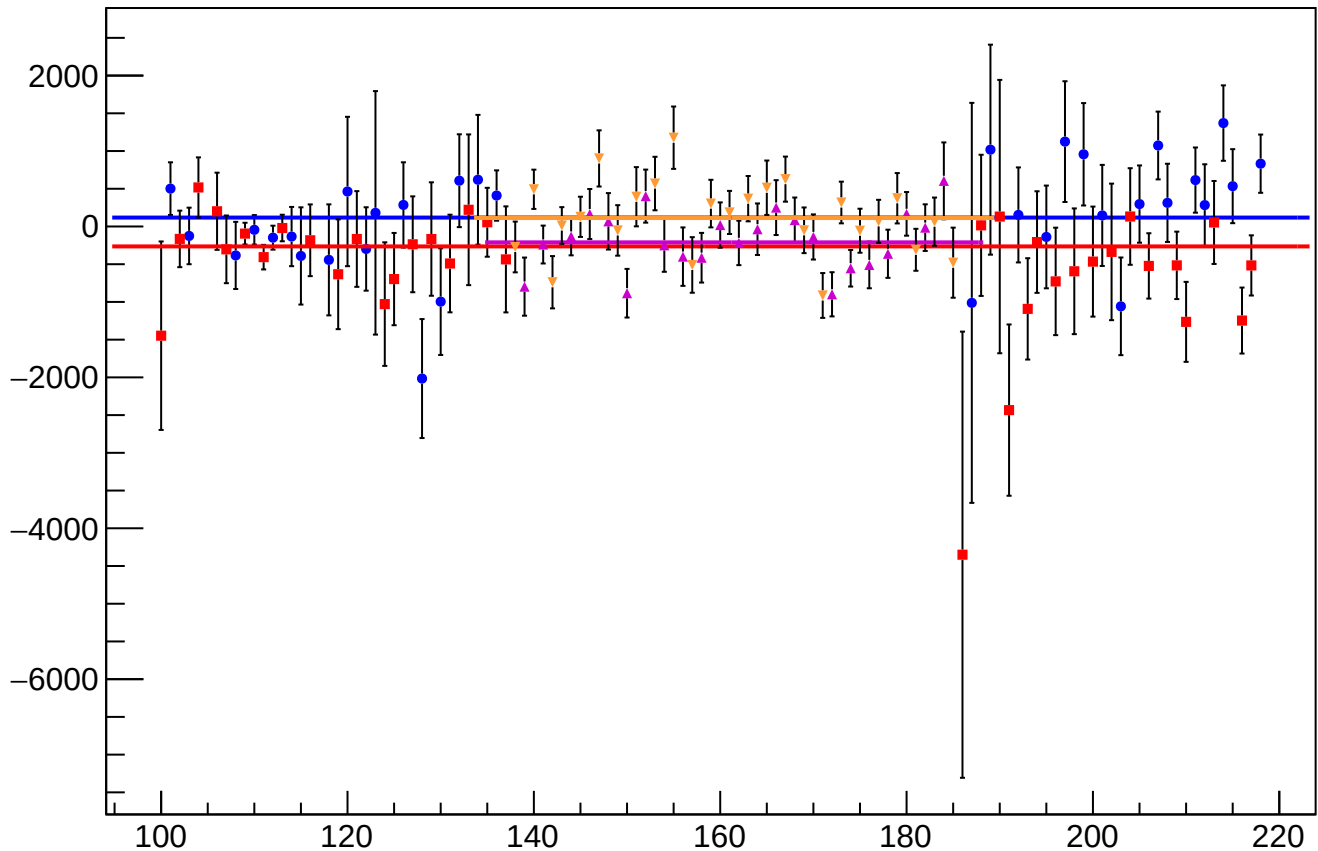
Right: 439.442 $\pm$ 0.061 χ^2 /NDF: 20796362.8/68

In: 356.277 $\pm$ 0.046 χ^2 /NDF: 11919332.6/55

Out: 344.818 $\pm$ 0.044 χ^2 /NDF: 13884542.8/60

All: 350.311 $\pm$ 0.032 χ^2 /NDF: 25835672.2/11

asym_sam8_mean vs Slug, Sign Corrected



Right In: 118.121 $\pm$ 76.381 χ^2/NDF : 44.1/32

Left Out: 112.242 $\pm$ 62.643 χ^2/NDF : 49.1/24

Right Out: -264.175 $\pm$ 68.480 χ^2/NDF : 30.6/35

Left In: -210.453 $\pm$ 65.510 χ^2/NDF : 29.2/22

Left: -41.890 $\pm$ 45.275 χ^2/NDF : 91.0/47

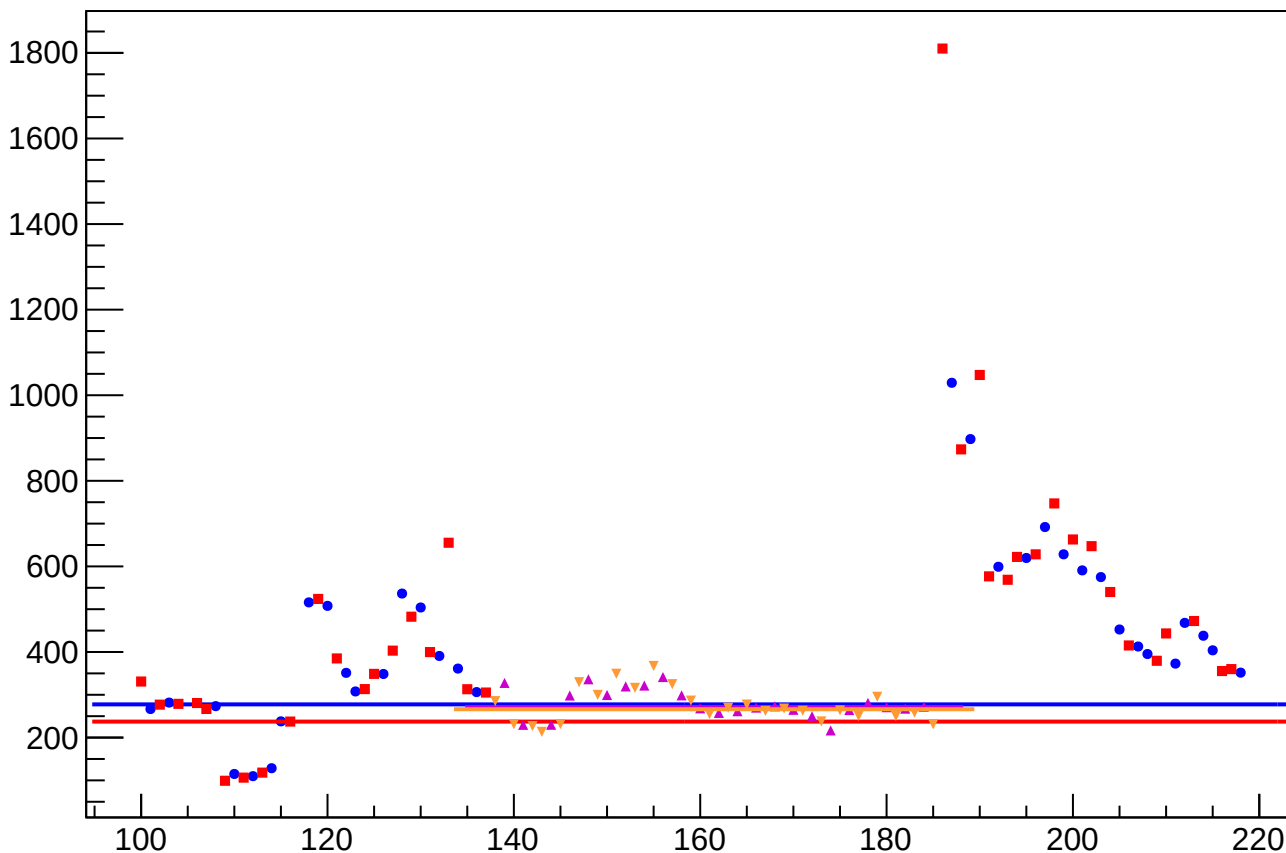
Right: -93.818 $\pm$ 50.988 χ^2/NDF : 88.7/68

In: -71.193 $\pm$ 49.726 χ^2/NDF : 84.0/55

Out: -59.244 $\pm$ 46.221 χ^2/NDF : 96.2/60

All: -64.783 $\pm$ 33.855 χ^2/NDF : 180.2/116

asym_sam8_rms vs Slug, Sign Corrected



Right In: 277.574+/-0.054 χ^2/NDF : 9625210.1/32

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 237.340+/-0.048 χ^2/NDF : 13187979.5/35

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

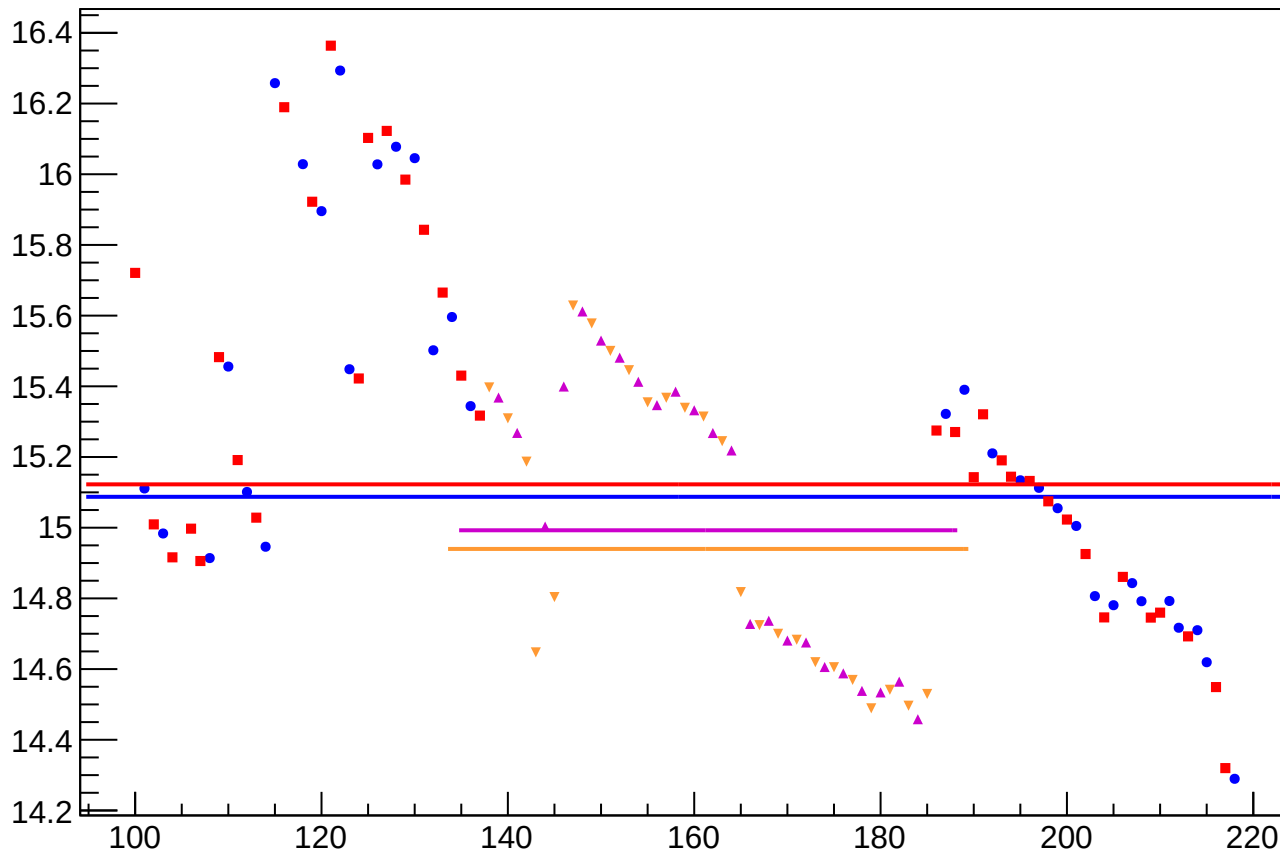
Right: 255.269+/-0.036 χ^2/NDF : 23120836.9/68

In: 274.025+/-0.035 χ^2/NDF : 10154579.9/55

Out: 253.056+/-0.033 χ^2/NDF : 14031099.1/60

All: 262.776+/-0.024 χ^2/NDF : 24376481.9/11

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.087+/-0.000

χ²/NDF: 25653445118.3/32

Left Out: 14.940+/-0.000

χ²/NDF: 24199653913.9/24

Right Out: 15.123+/-0.000

χ²/NDF: 24026771622.9/35

Left In: 14.993+/-0.000

χ²/NDF: 22023159634.7/22

Left: 14.965+/-0.000

χ²/NDF: 46444749587.5/47

Right: 15.104+/-0.000

χ²/NDF: 49741555417.8/68

In: 15.031+/-0.000

χ²/NDF: 48235603615.8/55

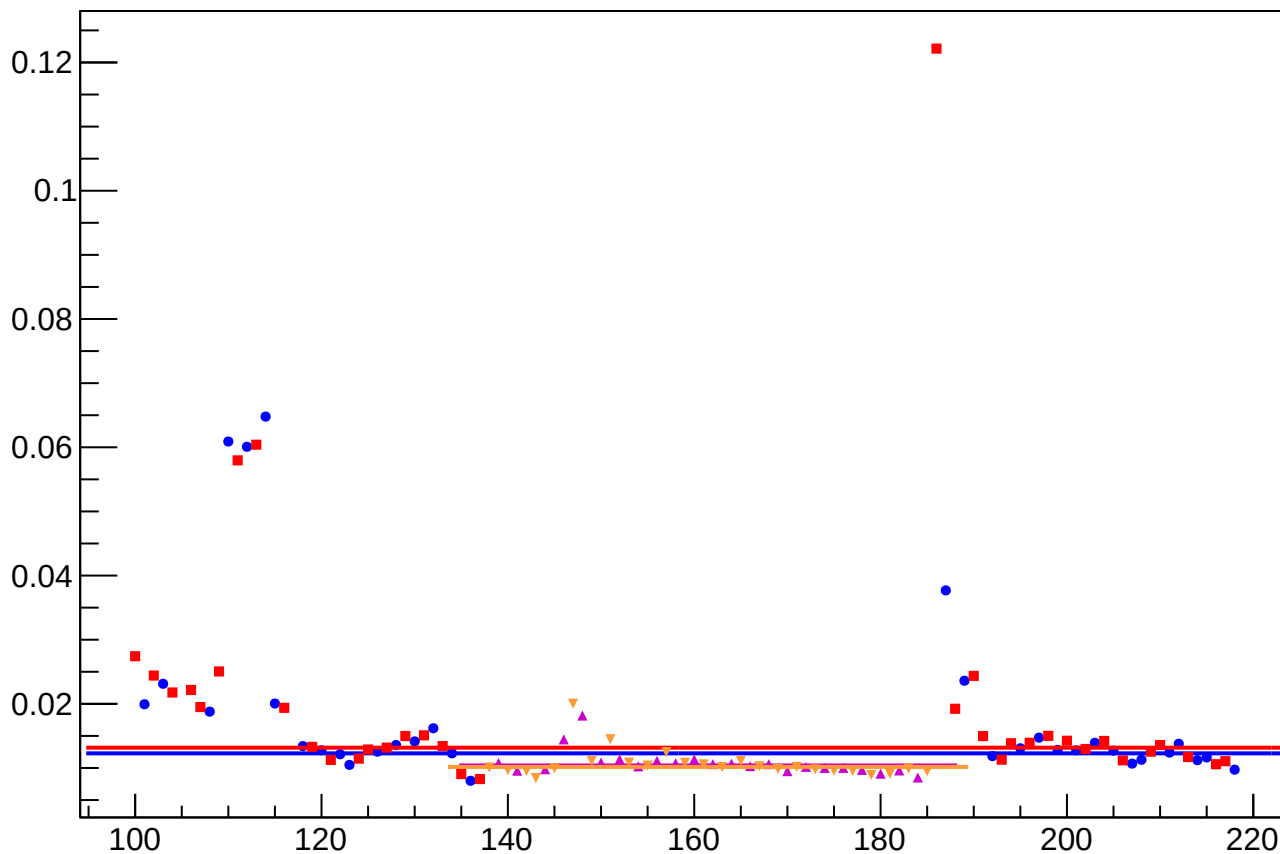
Out: 15.005+/-0.000

χ²/NDF: 50219143773.7/60

All: 15.018+/-0.000

χ²/NDF: 98544789534.3

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2725750.7/32

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.013+/-0.000 χ^2/NDF : 3283807.3/35

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

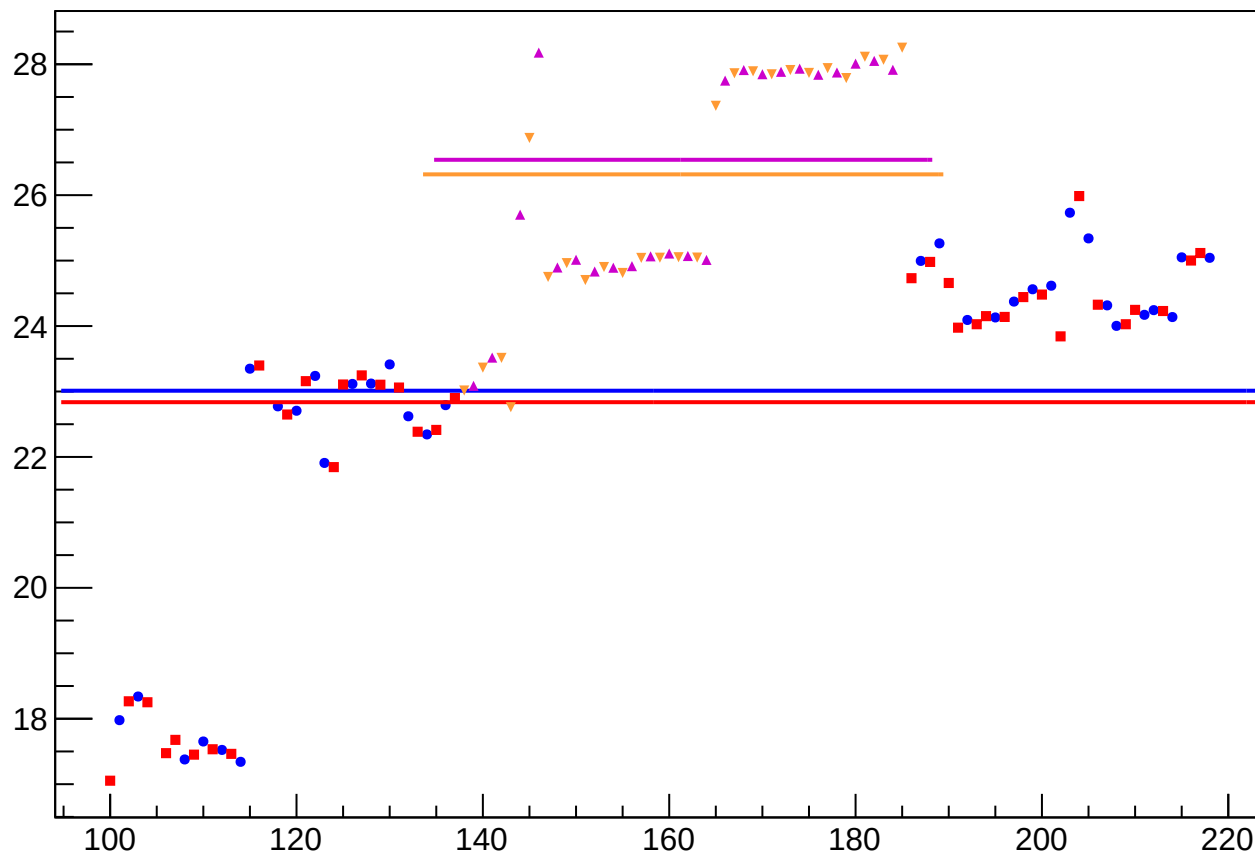
Right: 0.013+/-0.000 χ^2/NDF : 6087079.1/68

In: 0.011+/-0.000 χ^2/NDF : 3712199.0/55

Out: 0.011+/-0.000 χ^2/NDF : 5077872.7/60

All: 0.011+/-0.000 χ^2/NDF : 8791203.9/116

yield_sam2_mean vs Slug, Sign Corrected



Right In: 23.012+/-0.000

χ^2/NDF : 1500072288.0/32

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right: 22.929+/-0.000

χ^2/NDF : 3227436323.5/68

Right Out: 22.837+/-0.000

χ^2/NDF : 1720801111.1/35

In: 25.631+/-0.000

χ^2/NDF : 8966767795.8/55

Out: 25.538+/-0.000

χ^2/NDF : 10265138171.9/60

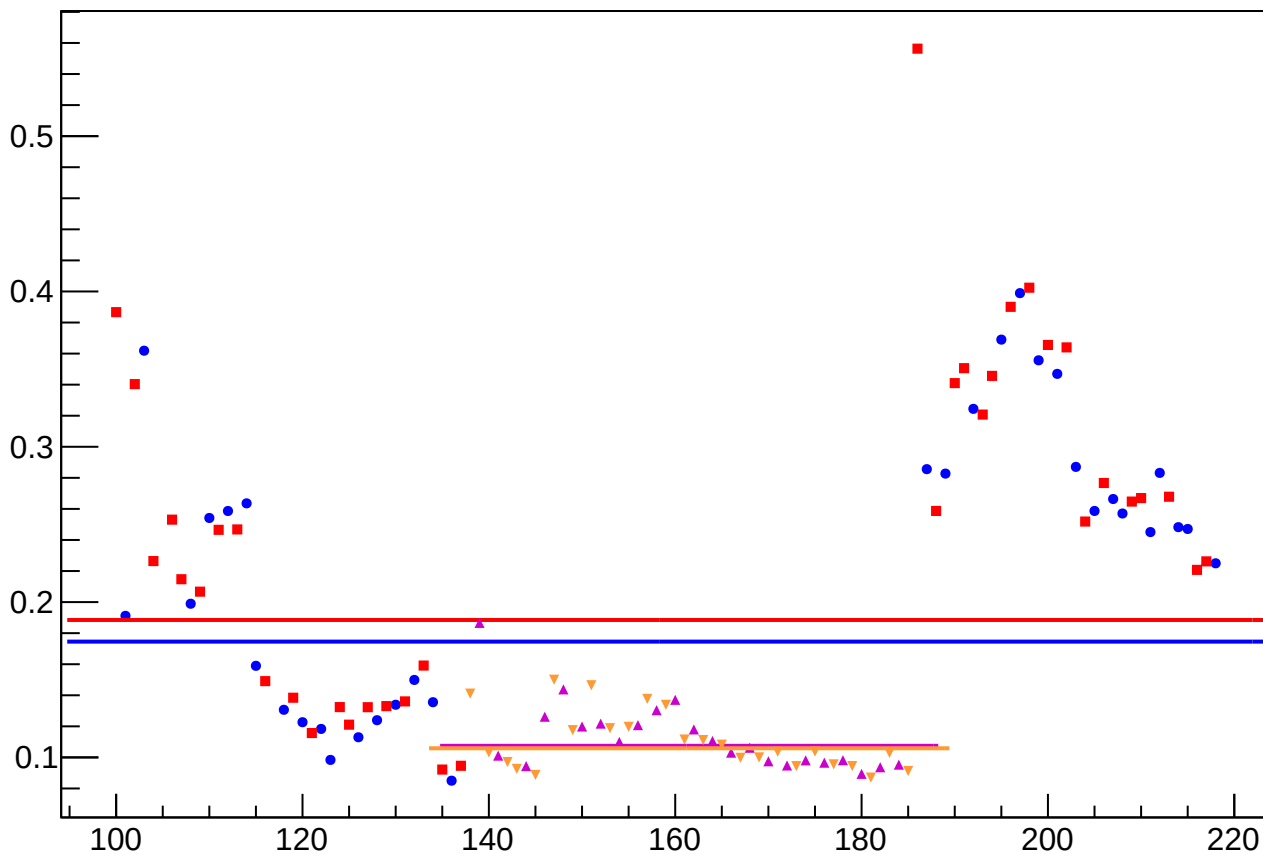
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.583+/-0.000

χ^2/NDF : 19239618914.9

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.175+/-0.000 χ^2/NDF : 6507546.3/32

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.188+/-0.000 χ^2/NDF : 6115545.0/35

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

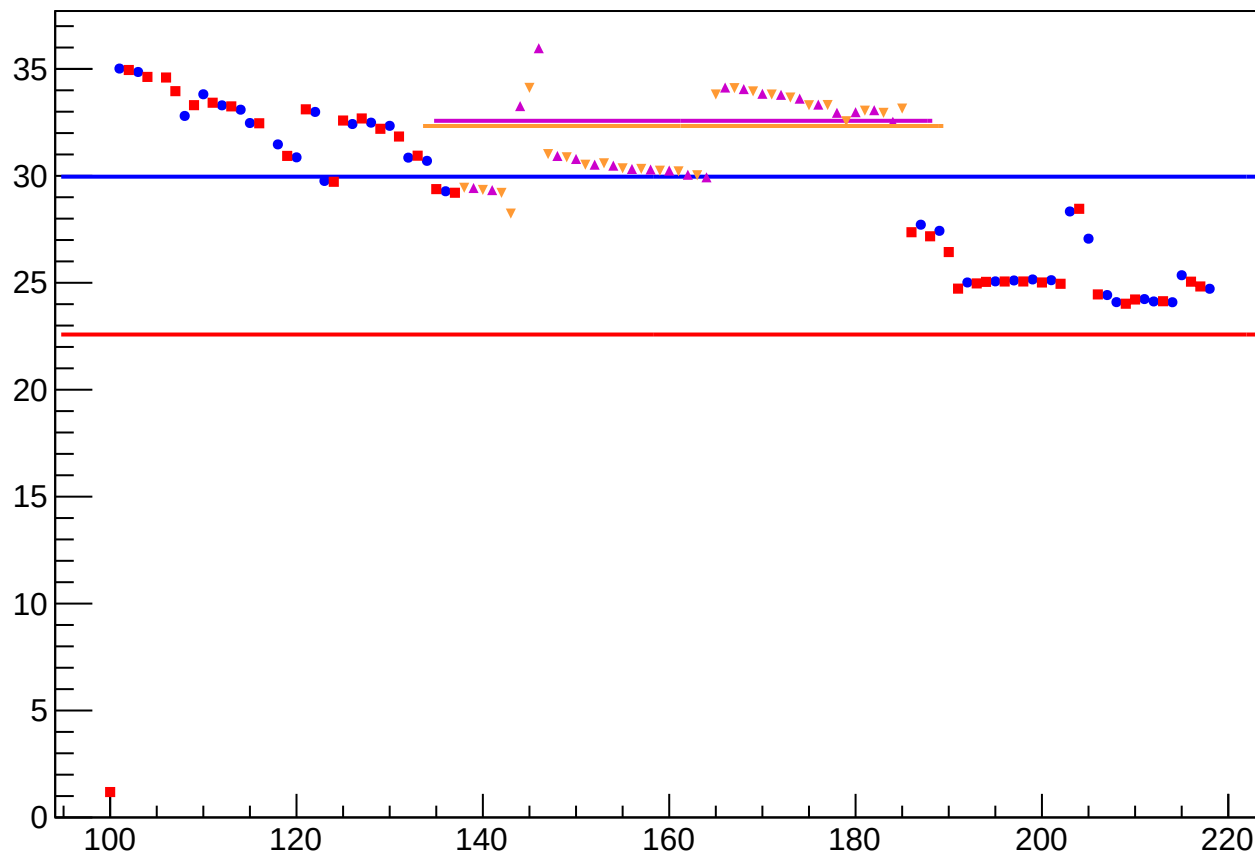
Right: 0.181+/-0.000 χ^2/NDF : 12706069.6/68

In: 0.125+/-0.000 χ^2/NDF : 10284357.8/55

Out: 0.124+/-0.000 χ^2/NDF : 11160723.5/60

All: 0.125+/-0.000 χ^2/NDF : 21445326.8/116

yield_sam3_mean vs Slug, Sign Corrected



Right In: 29.962+/-0.000

χ^2/NDF : 11358266607.6/32

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

Right Out: 22.581+/-0.000

χ^2/NDF : 232570150549.2/35

Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

Left: 32.450+/-0.000

χ^2/NDF : 24766521375.8/47

Right: 25.747+/-0.000

χ^2/NDF : 275413726299.8/68

In: 32.038+/-0.000

χ^2/NDF : 28645234351.6/55

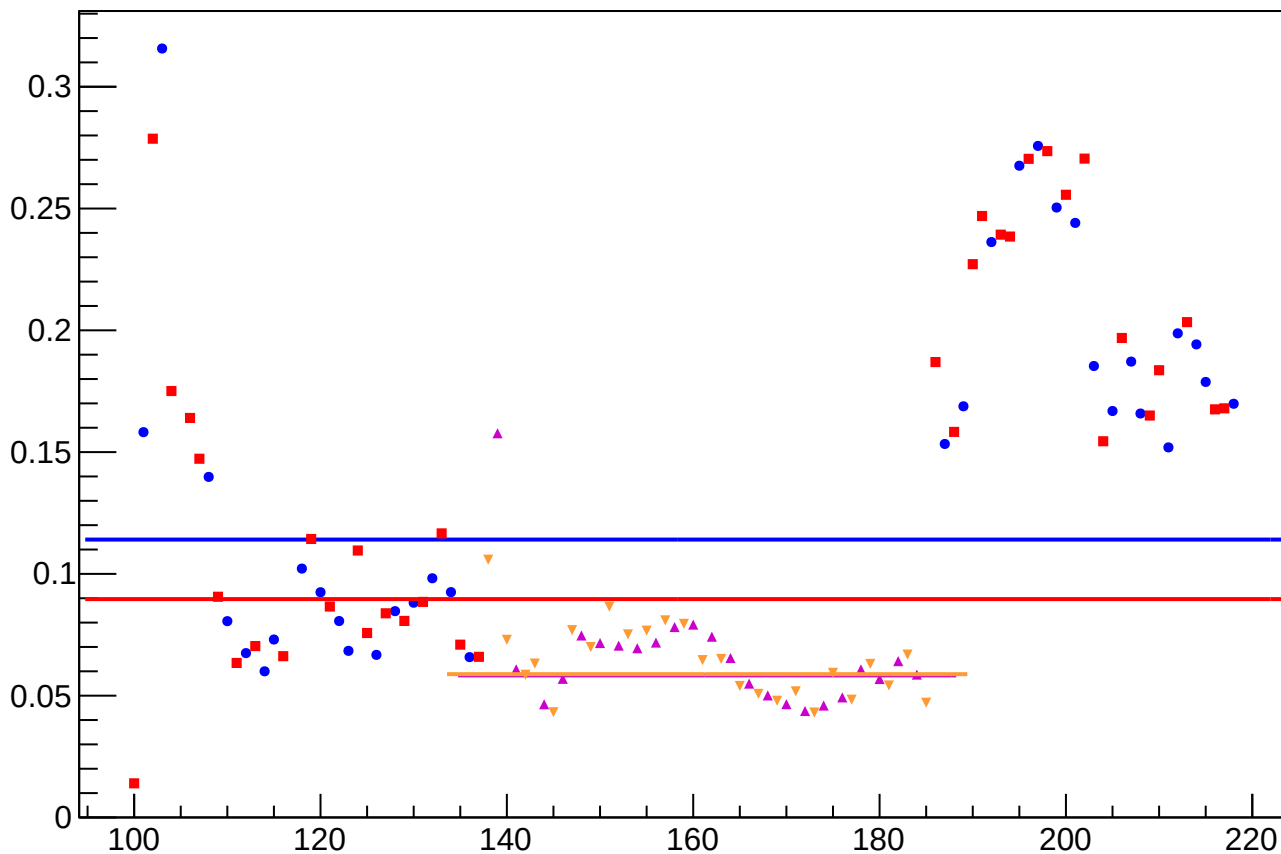
Out: 29.918+/-0.000

χ^2/NDF : 341807913539.9/60

All: 30.926+/-0.000

χ^2/NDF : 382086823100.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.114+/-0.000 χ^2/NDF : 6846723.7/32

Left Out: 0.059+/-0.000 χ^2/NDF :1402605.2/24

Right Out: 0.090+/-0.000 χ^2/NDF : 12488087.1/35

Left In: 0.058+/-0.000 χ^2/NDF :1525476.4/22

Left: 0.059+/-0.000 χ^2/NDF : 2929140.7/47

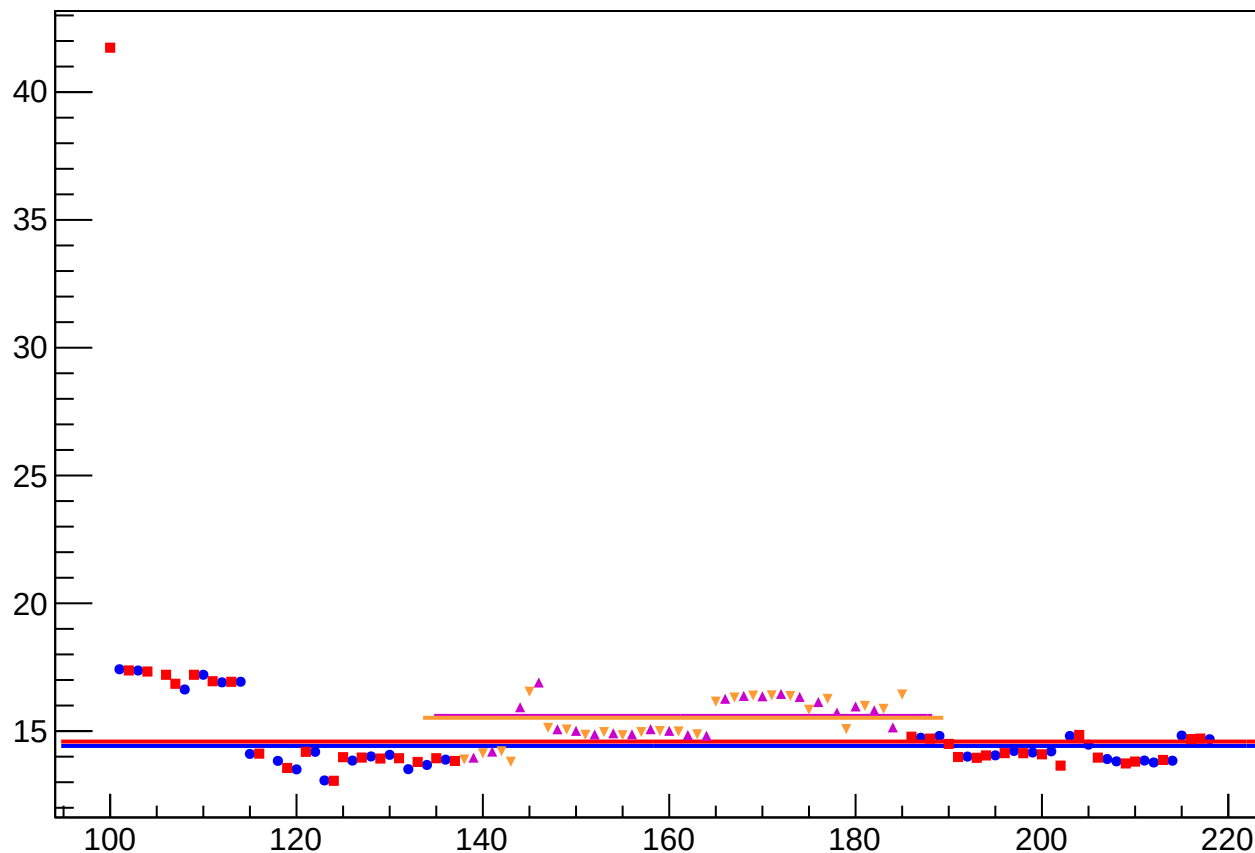
Right: 0.100+/-0.000 χ^2/NDF : 20025434.4/68

In: 0.070+/-0.000 χ^2/NDF :13377057.3/55

Out: 0.066+/-0.000 χ^2/NDF :15816842.3/60

All: 0.068+/-0.000 χ^2/NDF : 29250379.7/116

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.419+/-0.000

χ^2/NDF : 1572933003.2/32

Left: 15.557+/-0.000

χ^2/NDF : 4510008259.4/47

Left Out: 15.521+/-0.000

χ^2/NDF : 2591377740.5/24

Right: 14.502+/-0.000

χ^2/NDF : 3629841346.3/68

Right Out: 14.591+/-0.000

χ^2/NDF : 2039265364.3/35

In: 15.284+/-0.000

χ^2/NDF : 4742344462.7/55

Out: 15.302+/-0.000

χ^2/NDF : 5396183307.7/60

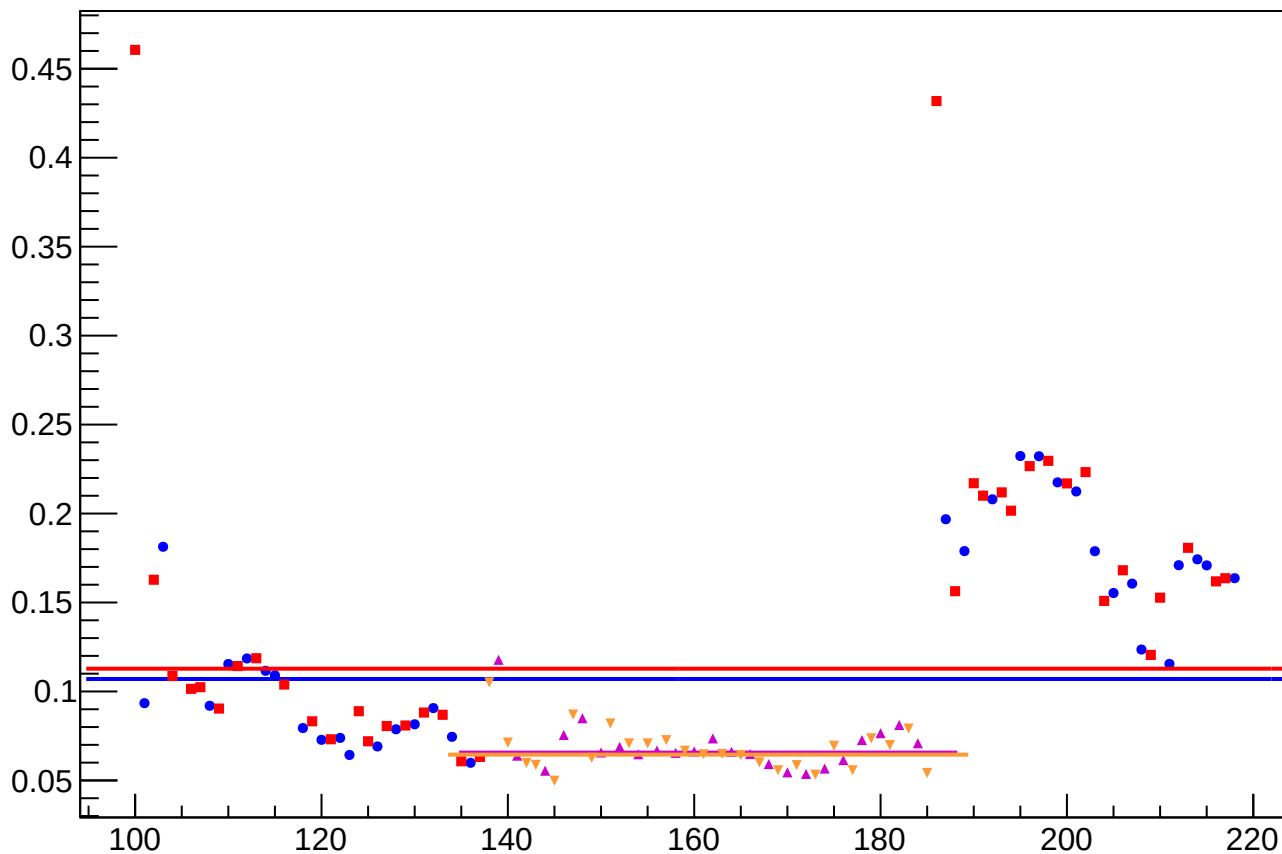
Left In: 15.595+/-0.000

χ^2/NDF : 1908733580.5/22

All: 15.293+/-0.000

χ^2/NDF : 10139305490.0

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.107+/-0.000 χ^2/NDF : 5743850.2/32

Left Out: 0.064+/-0.000 χ^2/NDF : 761552.3/24

Right Out: 0.113+/-0.000 χ^2/NDF : 5620105.9/35

Left In: 0.066+/-0.000 χ^2/NDF : 714703.1/22

Left: 0.065+/-0.000 χ^2/NDF : 1481007.6/47

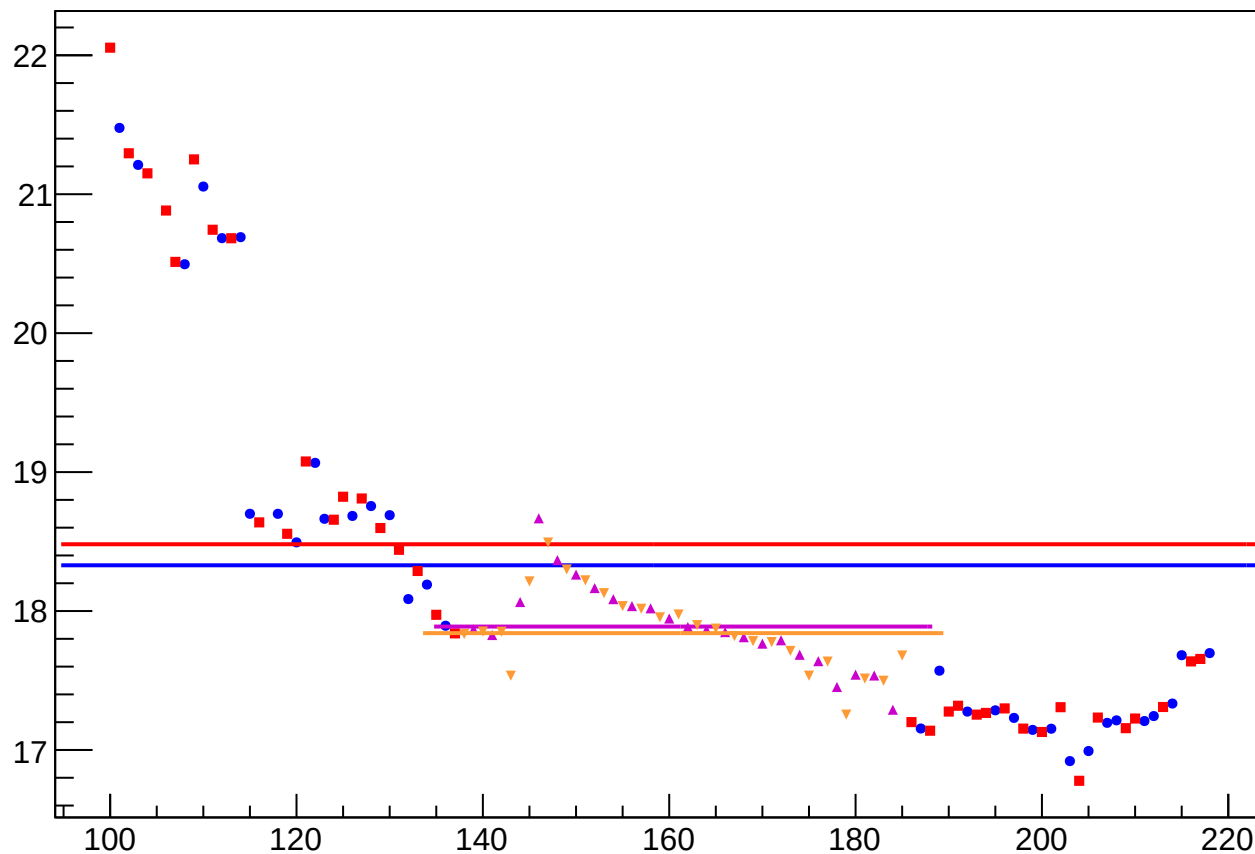
Right: 0.110+/-0.000 χ^2/NDF : 11404090.7/68

In: 0.077+/-0.000 χ^2/NDF : 9577355.3/55

Out: 0.076+/-0.000 χ^2/NDF : 10510509.6/60

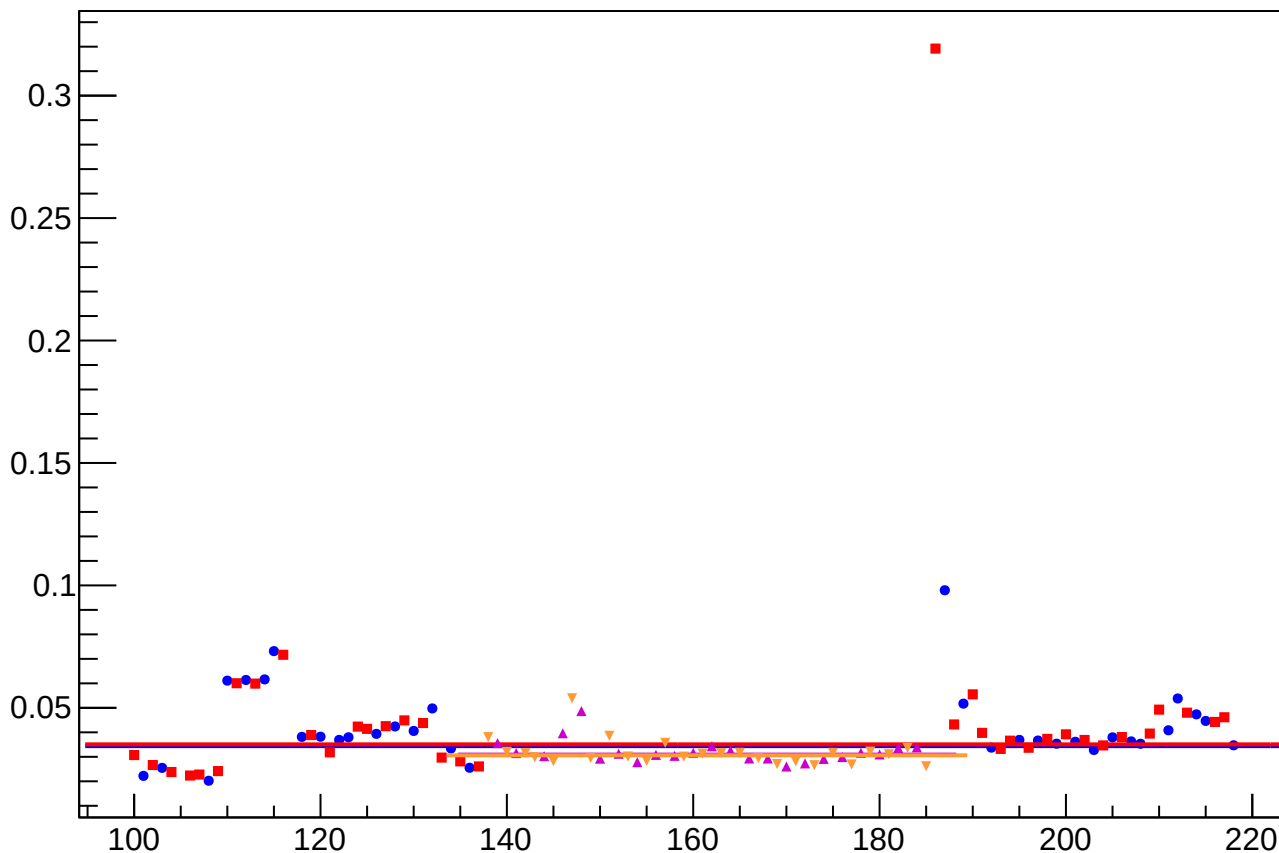
All: 0.076+/-0.000 χ^2/NDF : 20090349.5/116

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.329+/-0.000	χ^2/NDF : 32682585637.8/32	Left: 17.864+/-0.000	χ^2/NDF : 2506375288.6/47
Left Out: 17.841+/-0.000	χ^2/NDF : 1283287989.7/24	Right: 18.404+/-0.000	χ^2/NDF : 67544767649.6/68
Right Out: 18.481+/-0.000	χ^2/NDF : 34707389050.5/35	In: 18.083+/-0.000	χ^2/NDF : 35373524350.0/55
Left In: 17.888+/-0.000	χ^2/NDF : 1203002311.3/22	Out: 18.108+/-0.000	χ^2/NDF : 39169861876.0/60
		All: 18.095+/-0.000	χ^2/NDF : 74553270823.6

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.034 $\pm$ 0.000 χ^2 /NDF: 2185172.6/32

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 2585090.6/35

Left In: 0.031 $\pm$ 0.000 χ^2 /NDF:453524.6/22

Left: 0.031 $\pm$ 0.000 χ^2 /NDF: 1045553.8/47

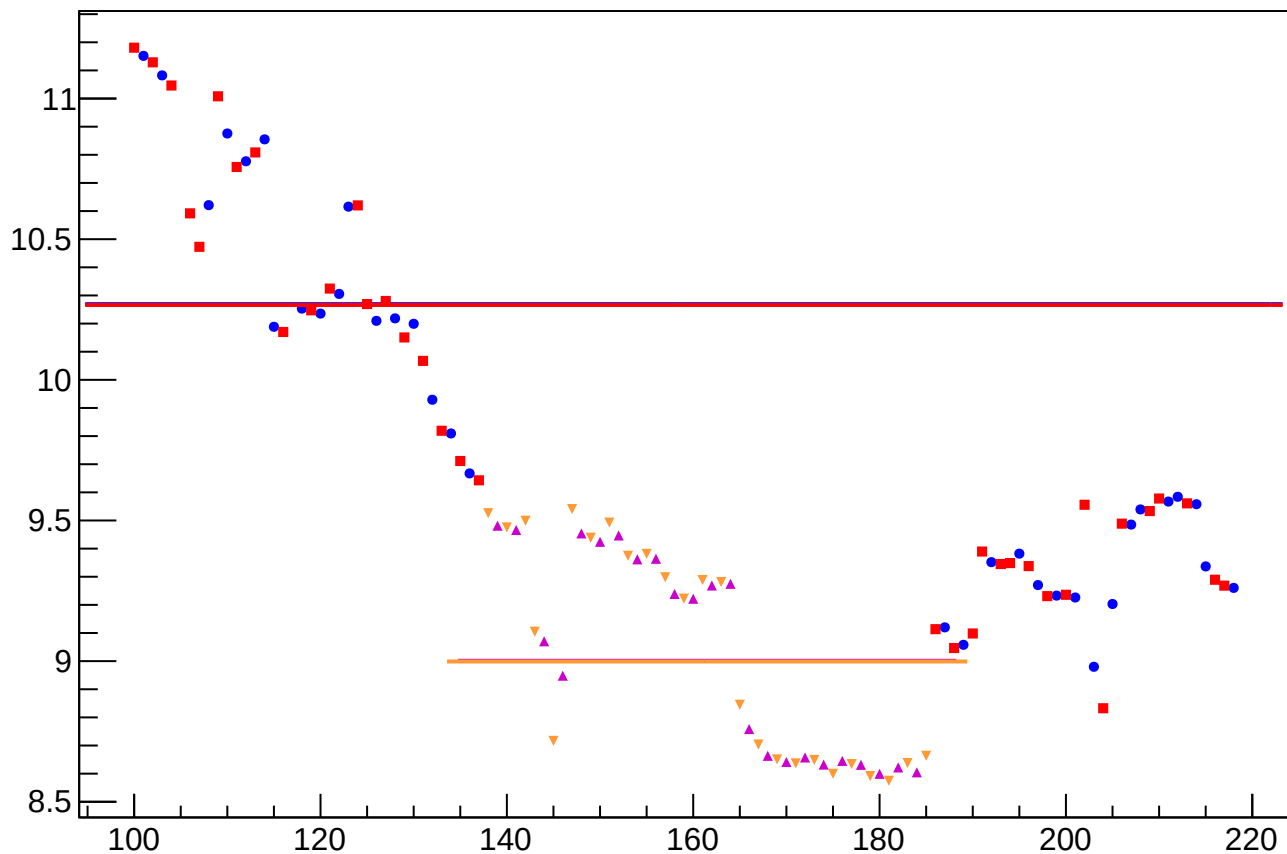
Right: 0.035 $\pm$ 0.000 χ^2 /NDF: 4777423.7/68

In: 0.032 $\pm$ 0.000 χ^2 /NDF:2821990.1/55

Out: 0.032 $\pm$ 0.000 χ^2 /NDF:3487867.0/60

All: 0.032 $\pm$ 0.000 χ^2 /NDF: 6309935.0/116

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.269 $\pm$ 0.000 χ^2 /NDF: 17718761544.6/32

Left Out: 8.999 $\pm$ 0.000 χ^2 /NDF: 6392583736.5/24

Right Out: 10.266 $\pm$ 0.000 χ^2 /NDF: 15923702272.3/35

Left In: 9.001 $\pm$ 0.000 χ^2 /NDF: 5314536205.4/22

Left: 9.000 $\pm$ 0.000 χ^2 /NDF: 11707260677.5/47

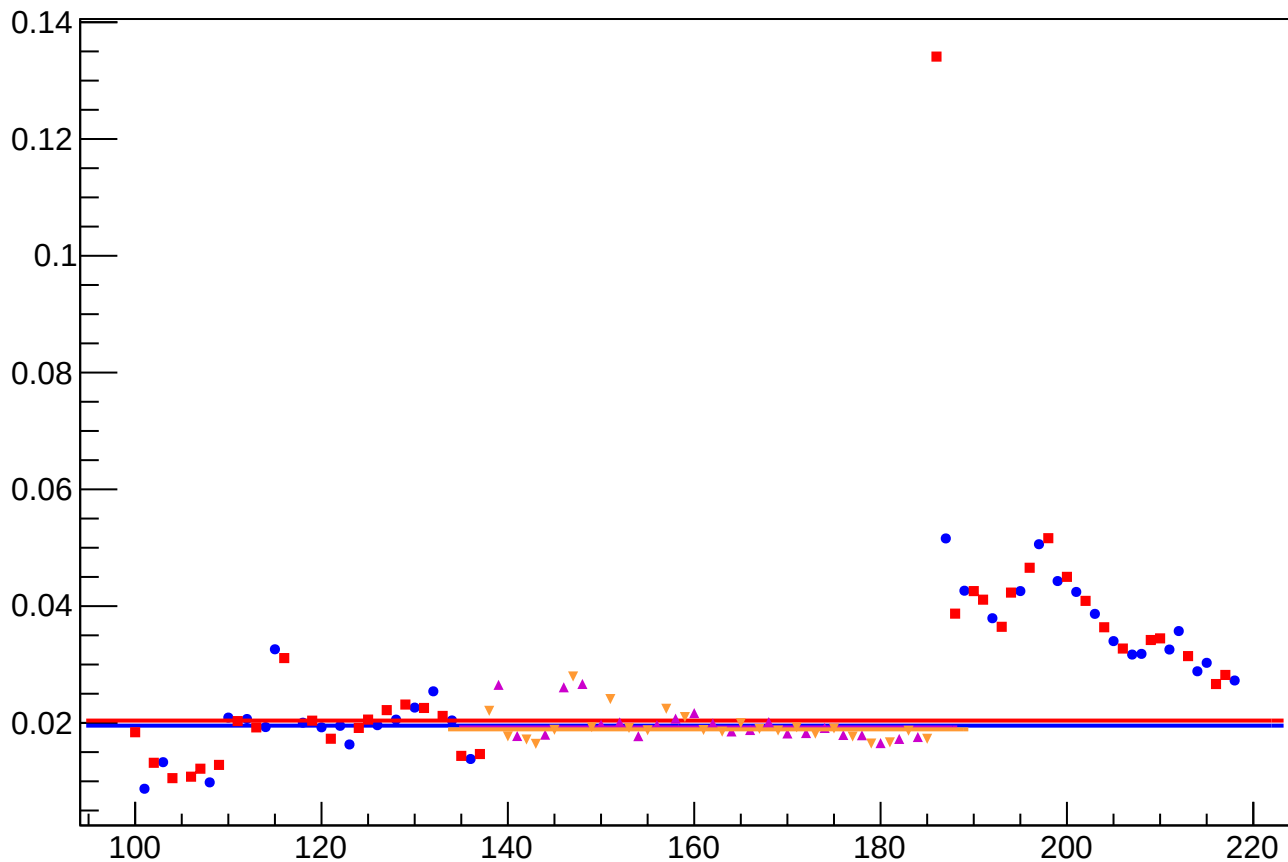
Right: 10.268 $\pm$ 0.000 χ^2 /NDF: 33642597649.3/68

In: 9.571 $\pm$ 0.000 χ^2 /NDF: 53975274274.9/55

Out: 9.527 $\pm$ 0.000 χ^2 /NDF: 53791575712.7/60

All: 9.549 $\pm$ 0.000 χ^2 /NDF: 107843745379.8

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 7653670.9/32

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 7401948.0/35

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

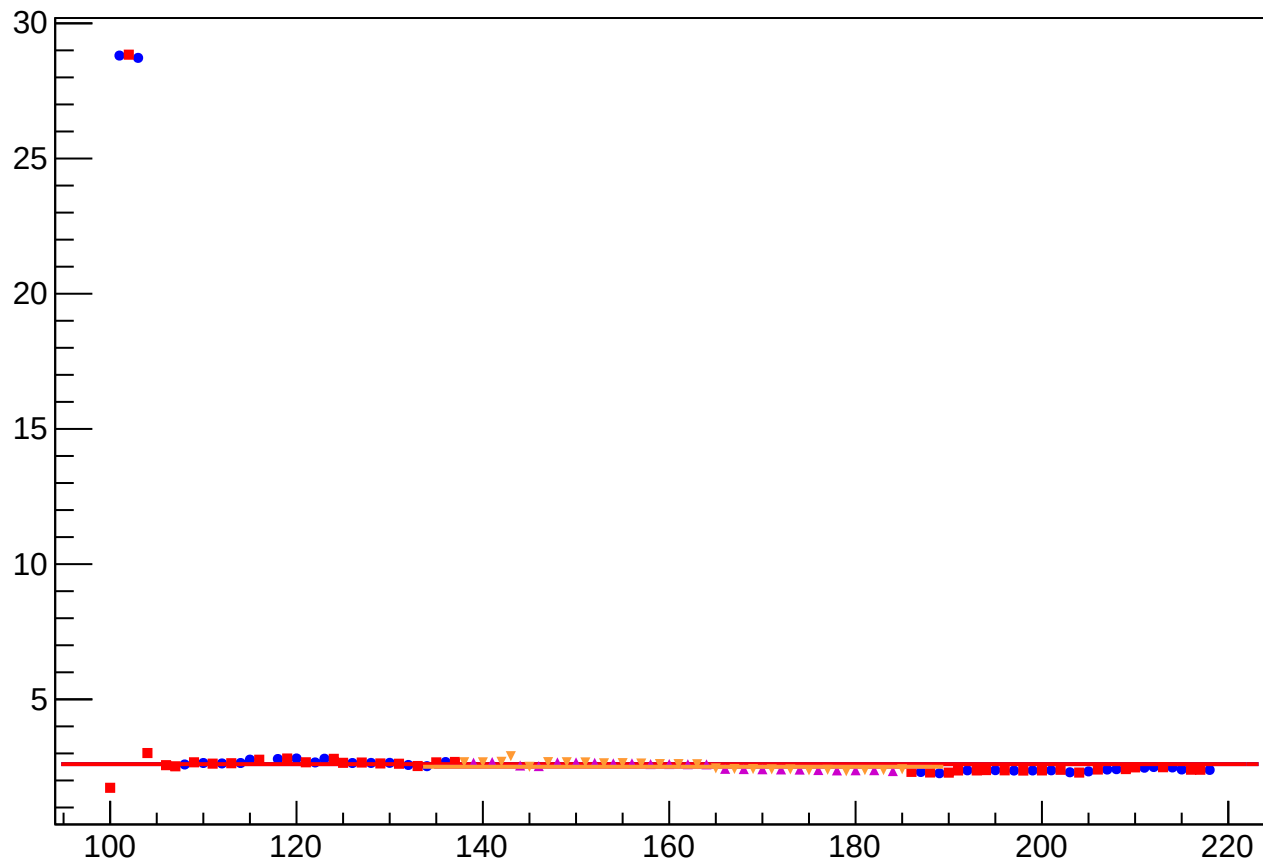
Right: 0.020+/-0.000 χ^2/NDF : 15081420.8/68

In: 0.019+/-0.000 χ^2/NDF : 8139158.9/55

Out: 0.020+/-0.000 χ^2/NDF : 7918703.0/60

All: 0.019+/-0.000 χ^2/NDF : 16059907.4/116

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.606 $\pm$ 0.000 χ^2 /NDF: 185375250406.2/32

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.604 $\pm$ 0.000 χ^2 /NDF: 94198806881.7/35

Left In: 2.505 $\pm$ 0.000 χ^2 /NDF: 42893630742.5/22

Left: 2.506 $\pm$ 0.000 χ^2 /NDF: 107174595641.7/47

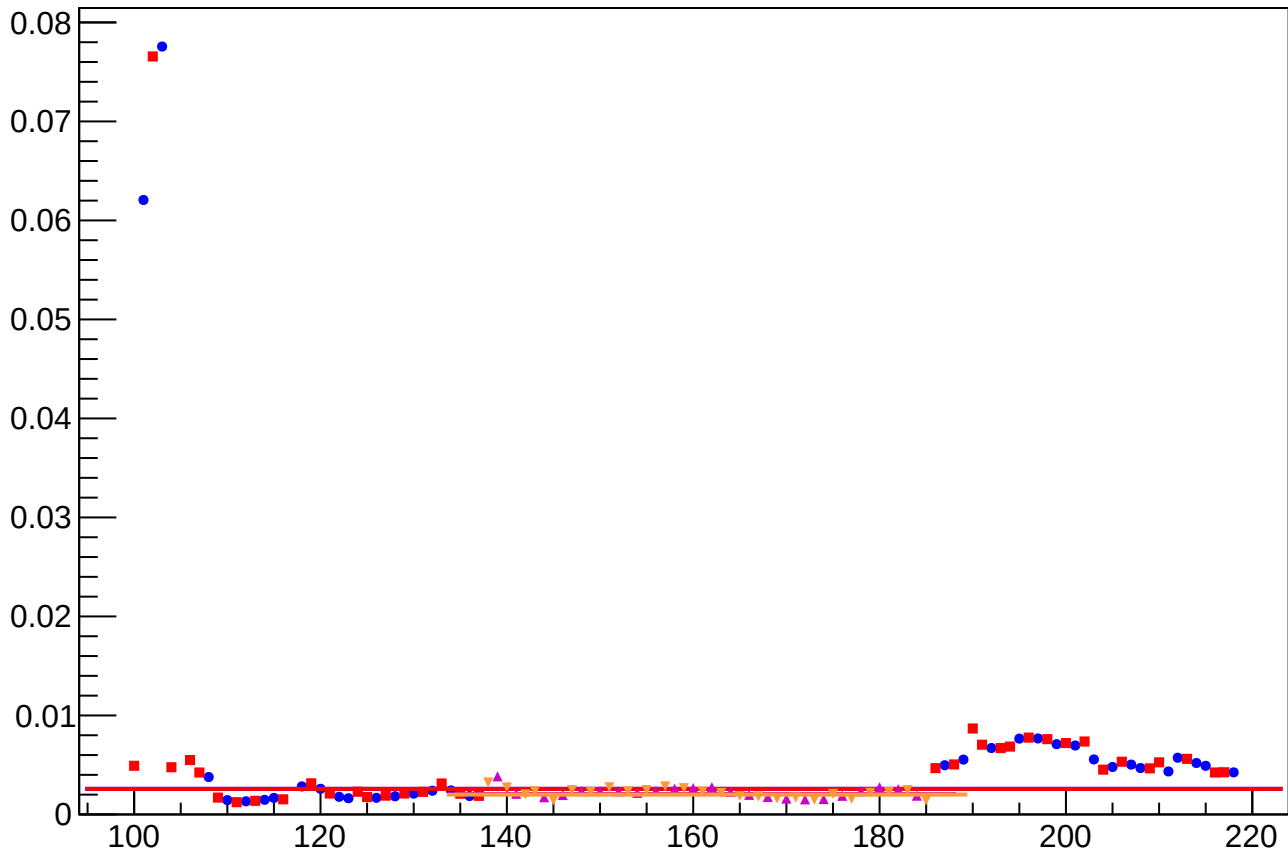
Right: 2.605 $\pm$ 0.000 χ^2 /NDF: 279578720096.9/68

In: 2.540 $\pm$ 0.000 χ^2 /NDF: 239686489383.1/55

Out: 2.538 $\pm$ 0.000 χ^2 /NDF: 169688982390.2/60

All: 2.539 $\pm$ 0.000 χ^2 /NDF: 409380639869.8

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 10803148.8/32

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.003+/-0.000 χ^2/NDF : 10766561.2/35

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

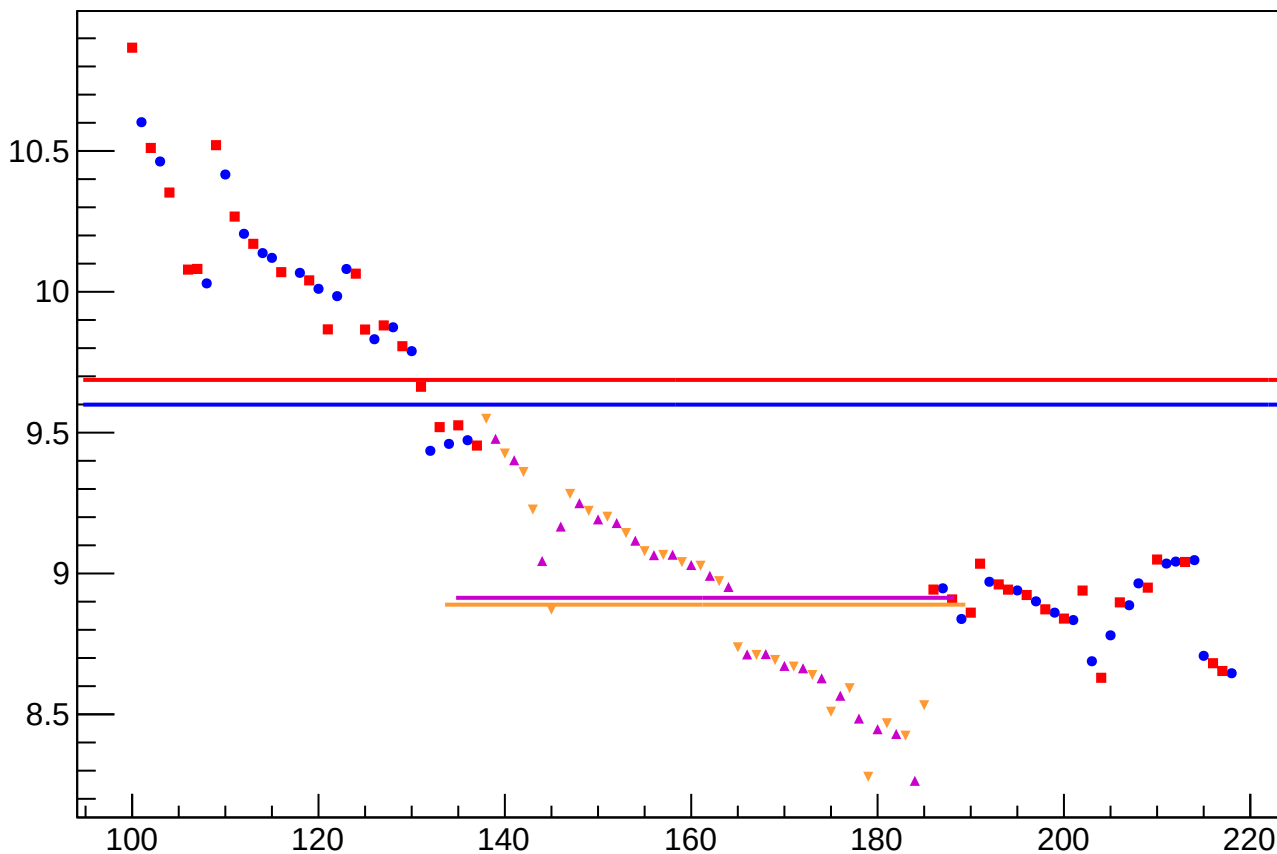
Right: 0.003+/-0.000 χ^2/NDF : 21569719.6/68

In: 0.002+/-0.000 χ^2/NDF :12733856.1/55

Out: 0.002+/-0.000 χ^2/NDF :13030873.0/60

All: 0.002+/-0.000 χ^2/NDF : 25774911.7/116

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.599+/-0.000 χ^2/NDF : 100216850015.4/32

Left Out: 8.889+/-0.000 χ^2/NDF : 34704694045.9/24

Right Out: 9.687+/-0.000 χ^2/NDF : 109656091065.1/35

Left In: 8.914+/-0.000 χ^2/NDF : 28497227562.7/22

Left: 8.901+/-0.000 χ^2/NDF : 63312247922.6/47

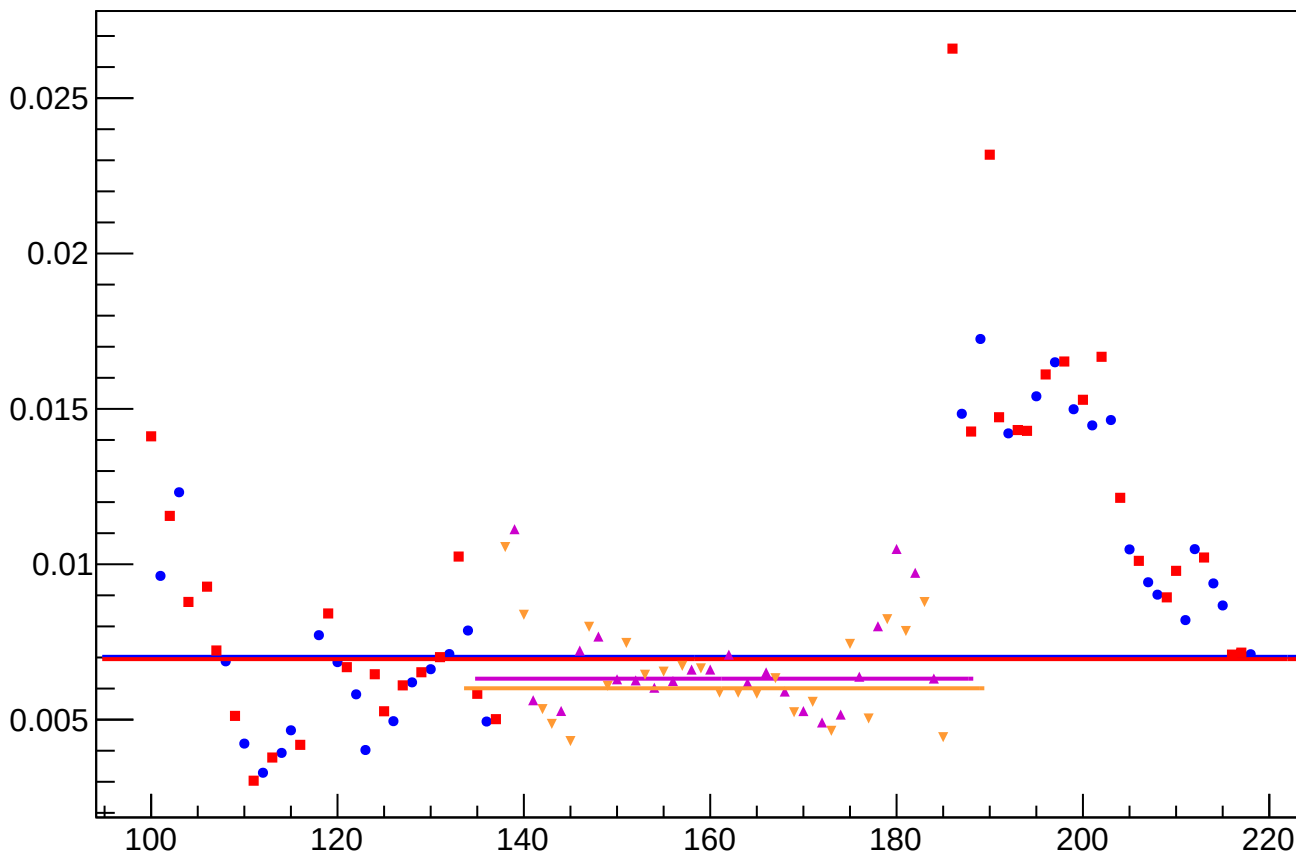
Right: 9.644+/-0.000 χ^2/NDF : 210946108684.1/68

In: 9.218+/-0.000 χ^2/NDF : 201298293916.8/55

Out: 9.217+/-0.000 χ^2/NDF : 249485109121.9/60

All: 9.217+/-0.000 χ^2/NDF : 450783773043.3

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6093607.1/32

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7552942.9/35

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

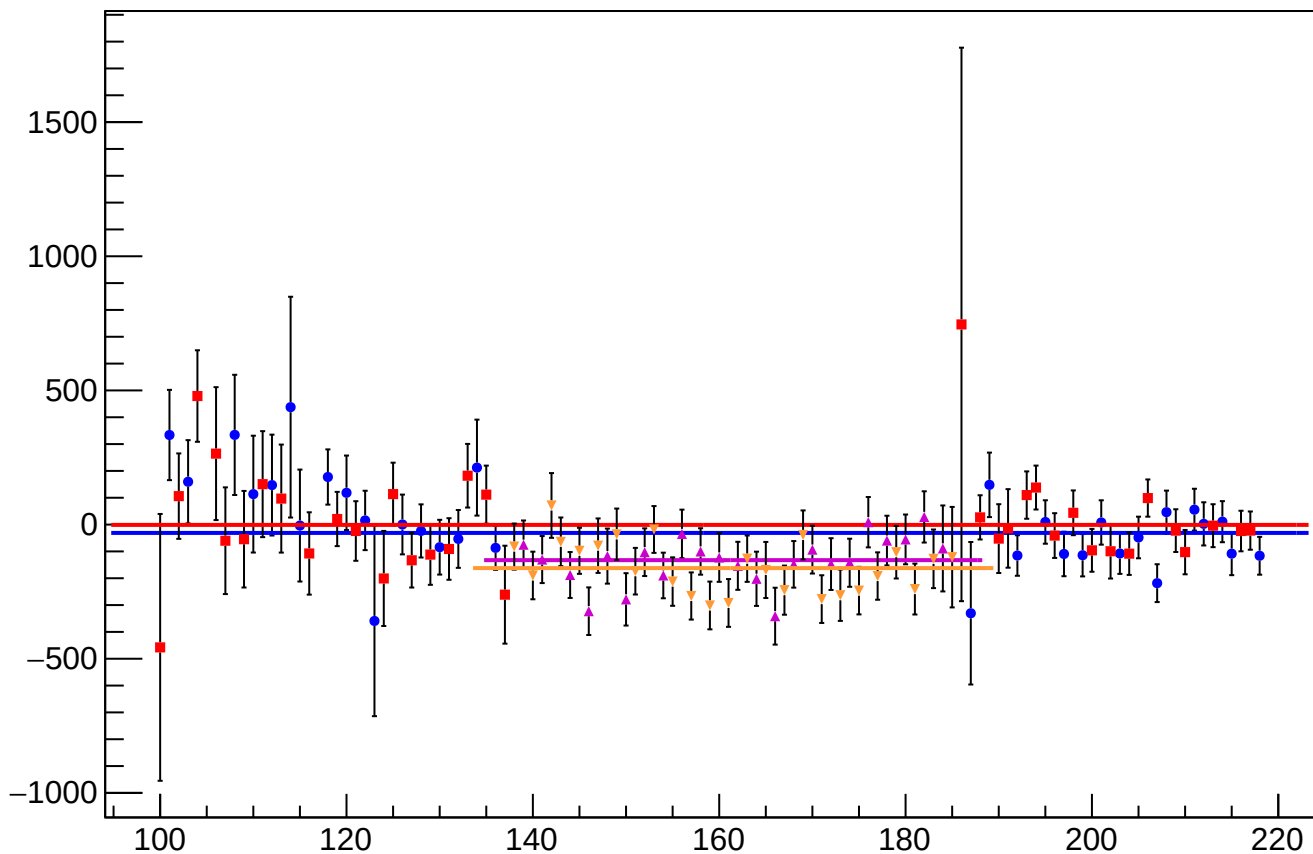
Right: 0.007+/-0.000 χ^2/NDF : 13648083.6/68

In: 0.007+/-0.000 χ^2/NDF :7333317.8/55

Out: 0.006+/-0.000 χ^2/NDF :9156056.2/60

All: 0.007+/-0.000 χ^2/NDF : 16525718.9/116

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -31.081 ± 17.248 $\chi^2/\text{NDF}: 40.9/32$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: -1.185 ± 17.569 $\chi^2/\text{NDF}: 36.8/35$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

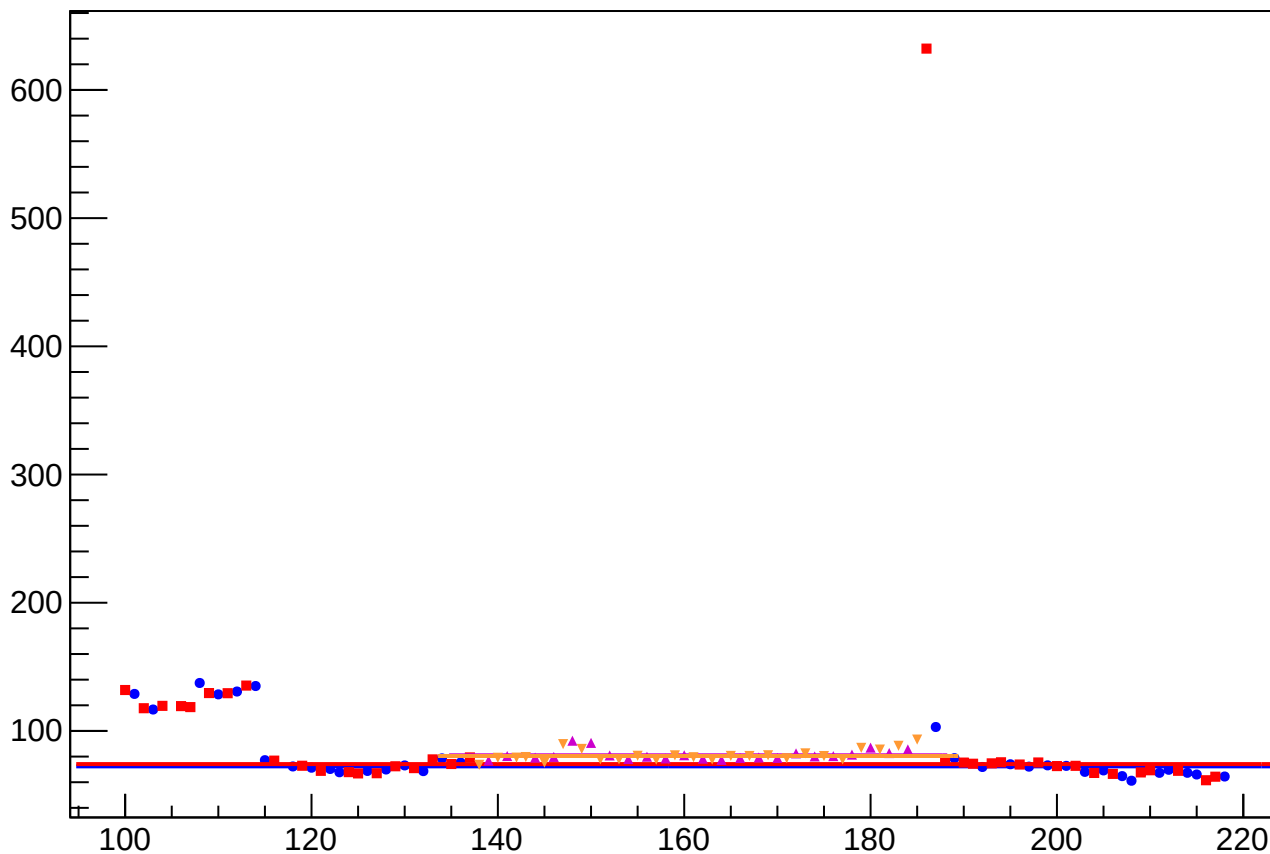
Right: -16.409 ± 12.308 $\chi^2/\text{NDF}: 79.1/68$

In: -75.871 ± 12.891 $\chi^2/\text{NDF}: 76.9/55$

Out: -76.465 ± 12.819 $\chi^2/\text{NDF}: 101.7/60$

All: -76.170 ± 9.090 $\chi^2/\text{NDF}: 178.6/116$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 72.378+/-0.012 χ^2/NDF : 1105256.0/32

Left Out: 80.459+/-0.013 χ^2/NDF : 89942.2/24

Right Out: 74.146+/-0.012 χ^2/NDF : 1801659.4/35

Left In: 81.014+/-0.014 χ^2/NDF : 72250.2/22

Left: 80.727+/-0.010 χ^2/NDF : 163039.2/47

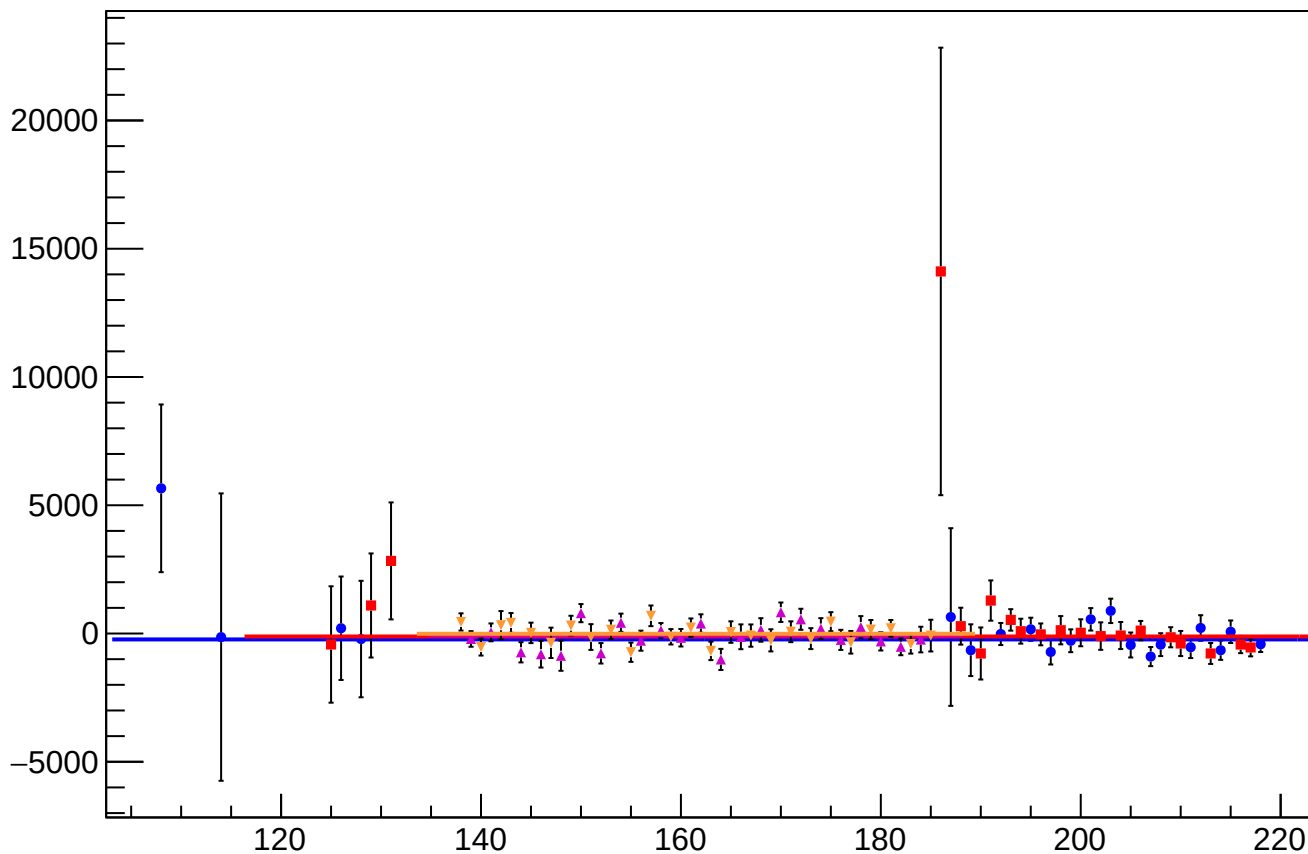
Right: 73.245+/-0.009 χ^2/NDF : 2917223.8/68

In: 76.190+/-0.009 χ^2/NDF : 1398816.9/55

Out: 77.098+/-0.009 χ^2/NDF : 2012374.9/60

All: 76.646+/-0.006 χ^2/NDF : 3416182.5/116

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -230.286 ± 111.752 $\chi^2/\text{NDF}: 21.3/19$

Left Out: -10.486 ± 78.391 $\chi^2/\text{NDF}: 22.5/24$

Right Out: -116.280 ± 115.094 $\chi^2/\text{NDF}: 17.2/19$

Left In: -64.591 ± 80.047 $\chi^2/\text{NDF}: 37.4/22$

Left: -36.973 ± 56.007 $\chi^2/\text{NDF}: 60.2/47$

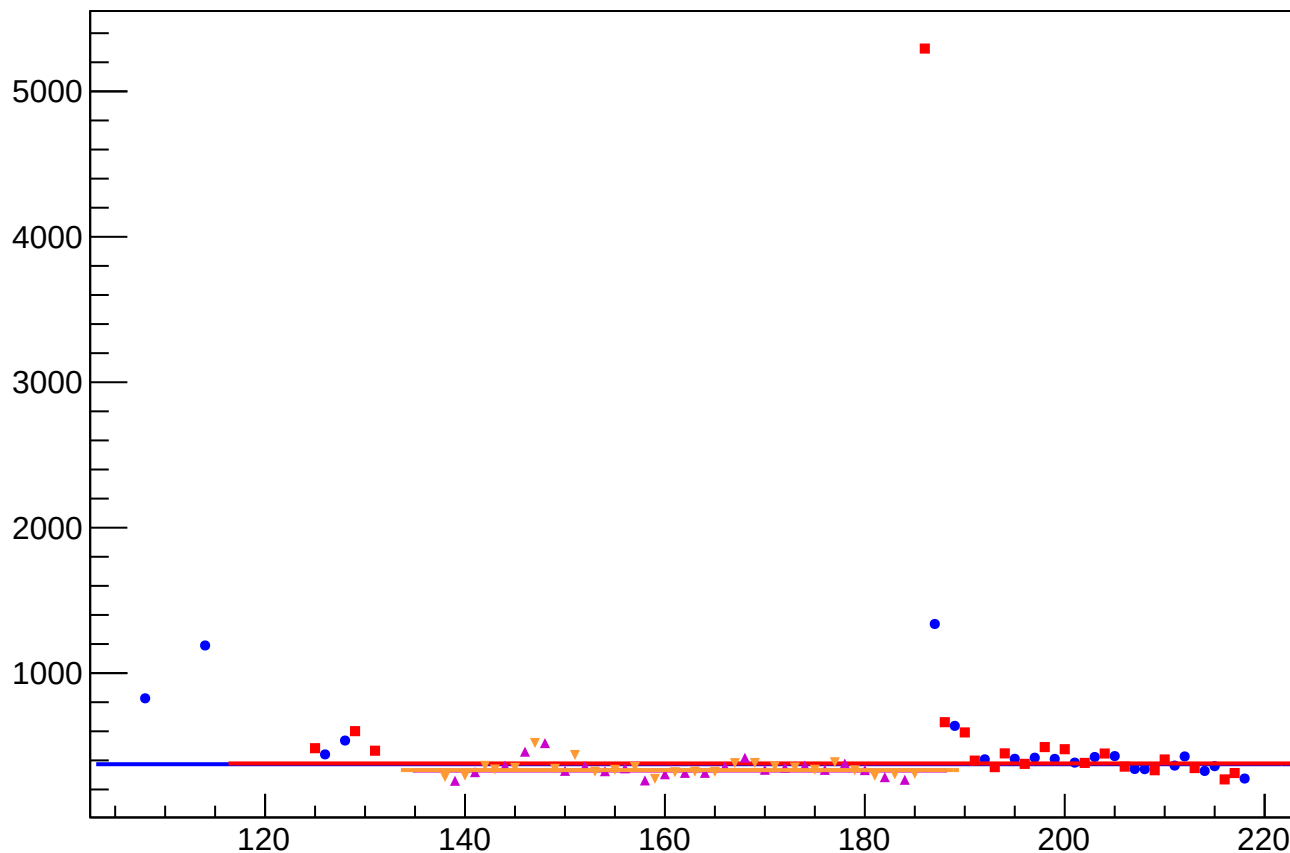
Right: -174.962 ± 80.176 $\chi^2/\text{NDF}: 39.0/39$

In: -120.776 ± 65.075 $\chi^2/\text{NDF}: 60.2/42$

Out: -44.011 ± 64.790 $\chi^2/\text{NDF}: 40.3/44$

All: -82.226 ± 45.914 $\chi^2/\text{NDF}: 101.2/87$

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 373.672+/-0.079 χ^2/NDF : 784749.7/19

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 379.093+/-0.081 χ^2/NDF : 1640120.5/19

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

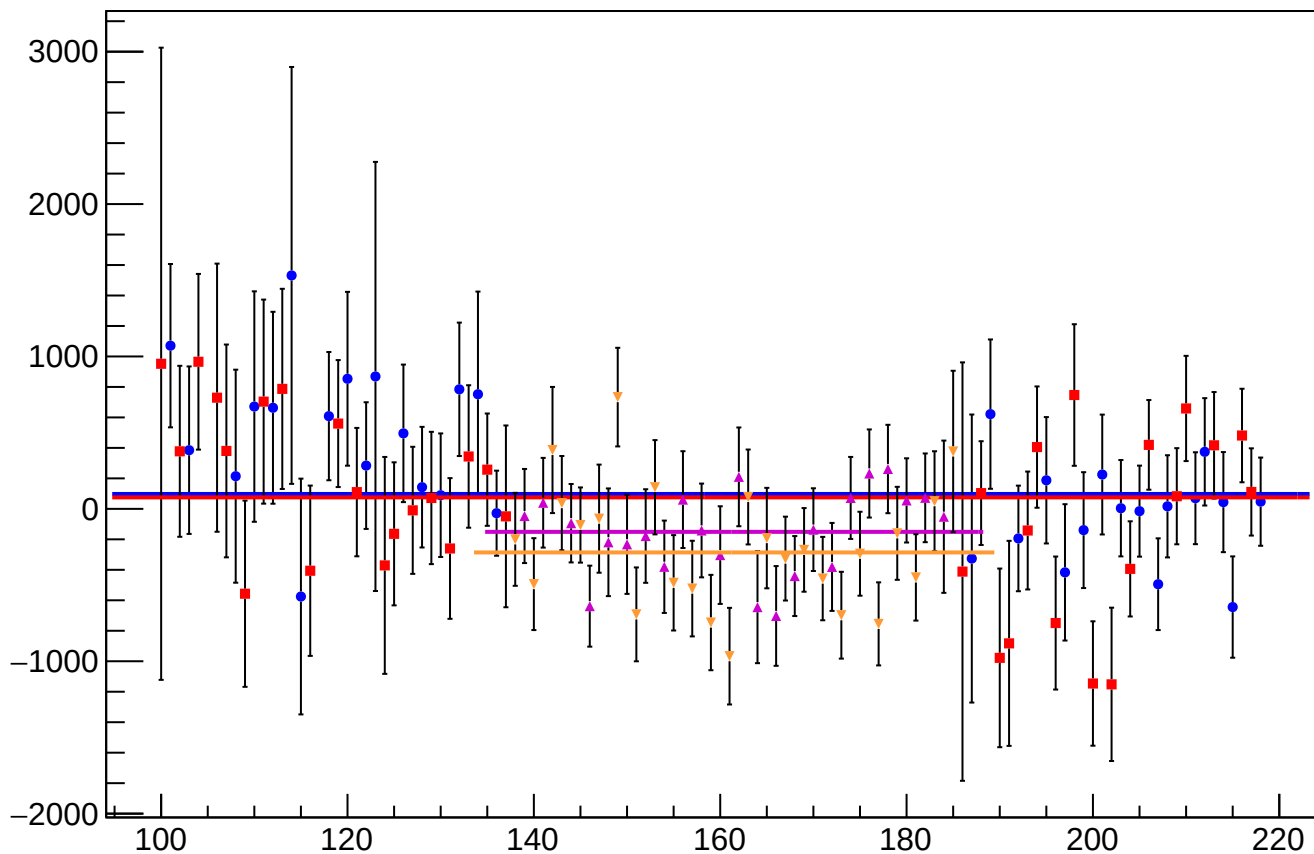
Right: 376.302+/-0.057 χ^2/NDF : 2427154.5/39

In: 344.799+/-0.046 χ^2/NDF : 1782716.1/42

Out: 347.766+/-0.046 χ^2/NDF : 2449152.0/44

All: 346.289+/-0.032 χ^2/NDF : 4233955.9/87

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 97.633+/-71.381 χ^2/NDF : 28.7/32

Left Out: -286.030+/-61.095 χ^2/NDF :36.6/24

Right Out: 75.309+/-73.131 χ^2/NDF : 46.8/35

Left In: -150.920+/-62.818 χ^2/NDF :18.7/22

Left: -220.353+/-43.797 χ^2/NDF : 57.6/47

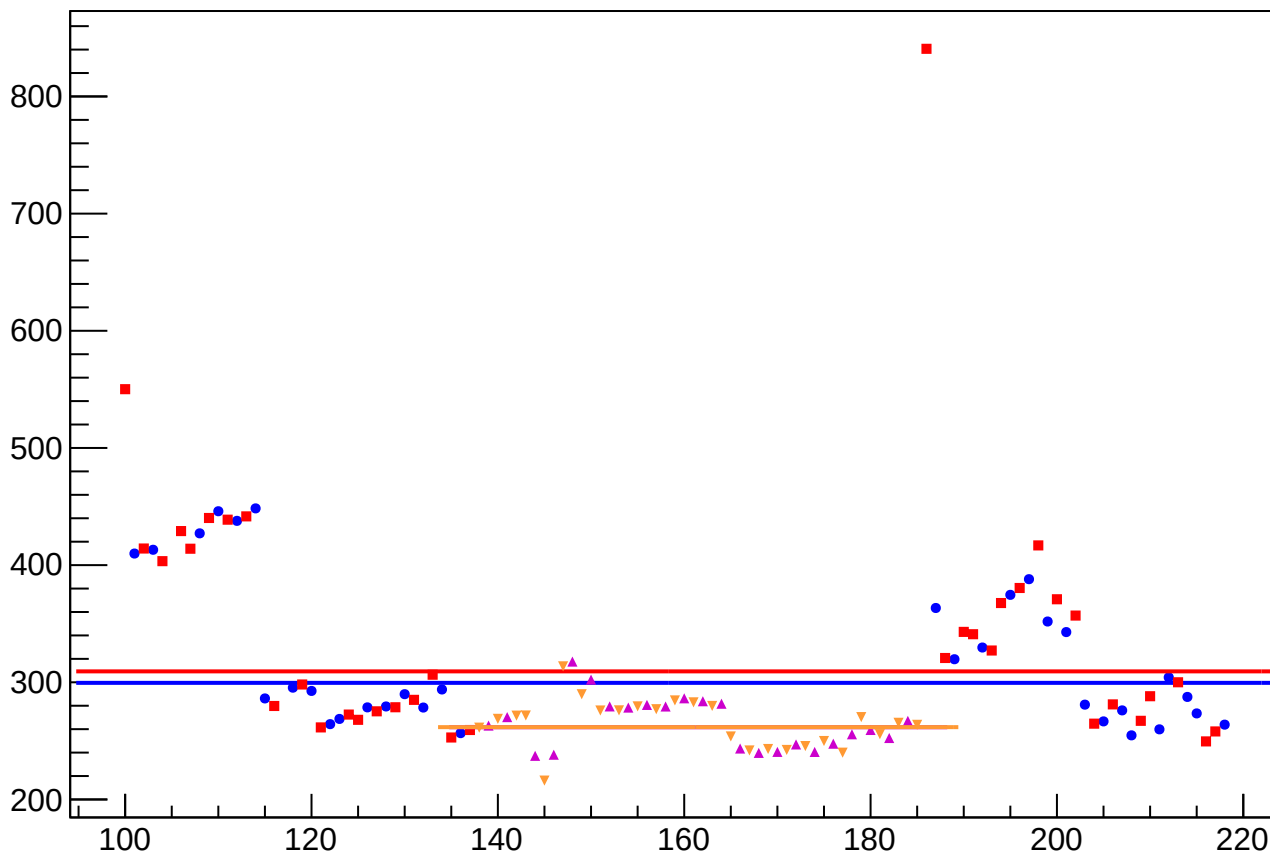
Right: 86.741+/-51.082 χ^2/NDF : 75.6/68

In: -42.440+/-47.157 χ^2/NDF :54.2/55

Out: -137.504+/-46.886 χ^2/NDF :97.8/60

All: -90.246+/-33.249 χ^2/NDF : 154.1/116

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 299.527+/-0.050 χ^2/NDF : 904463.5/32

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 309.325+/-0.052 χ^2/NDF : 1451308.5/35

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

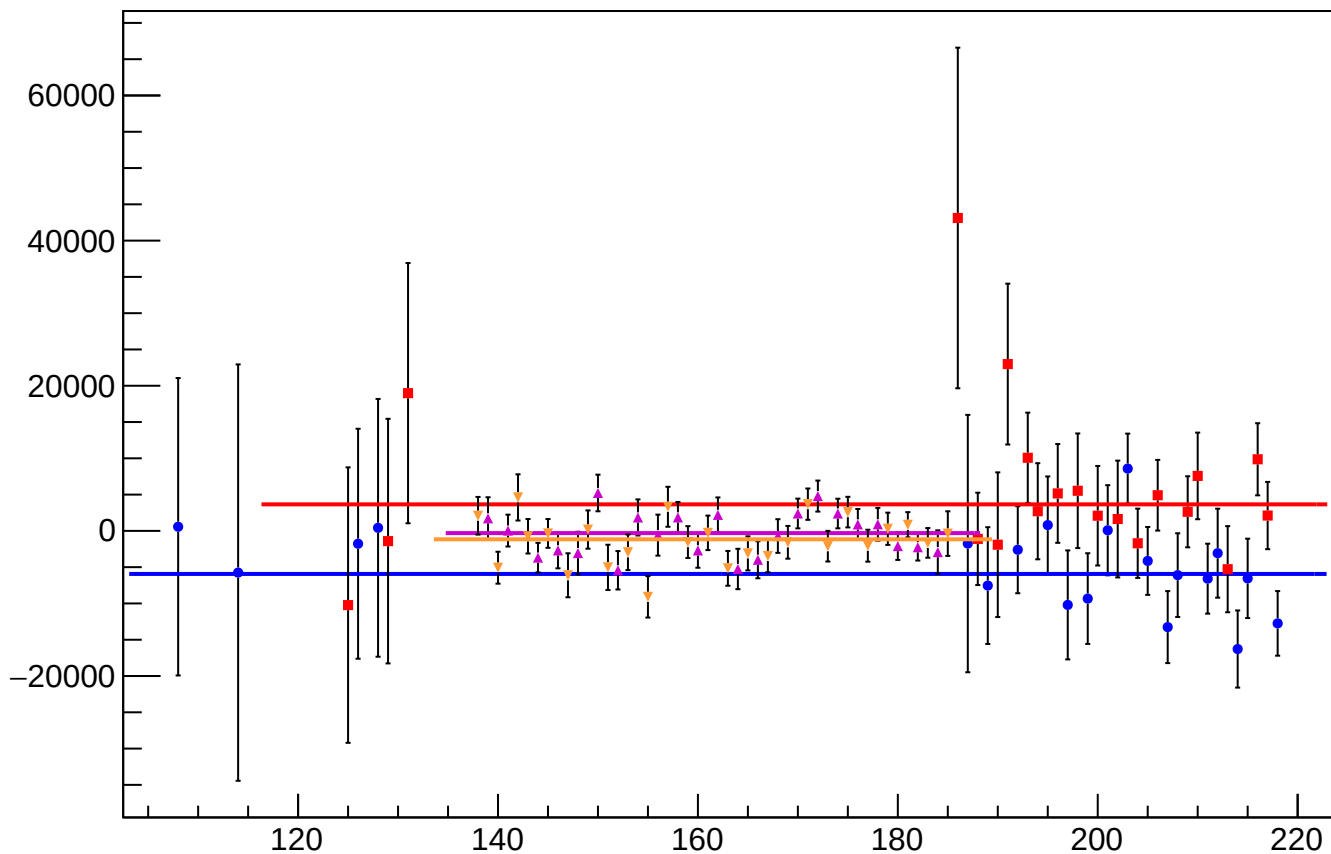
Right: 304.307+/-0.036 χ^2/NDF : 2374156.4/68

In: 278.174+/-0.033 χ^2/NDF : 1450287.4/55

Out: 281.289+/-0.033 χ^2/NDF : 2183633.1/60

All: 279.740+/-0.024 χ^2/NDF : 3638309.1/116

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -5933.505 $\pm$ 1418.203 χ^2 /NDF: 21.1/19

Left Out: -1161.443 $\pm$ 469.036 χ^2 /NDF:38.8/24

Right Out: 3655.109 $\pm$ 1493.449 χ^2 /NDF: 15.1/19

Left In: -304.366 $\pm$ 483.778 χ^2 /NDF:35.4/22

Left: -746.162 $\pm$ 336.750 χ^2 /NDF: 75.7/47

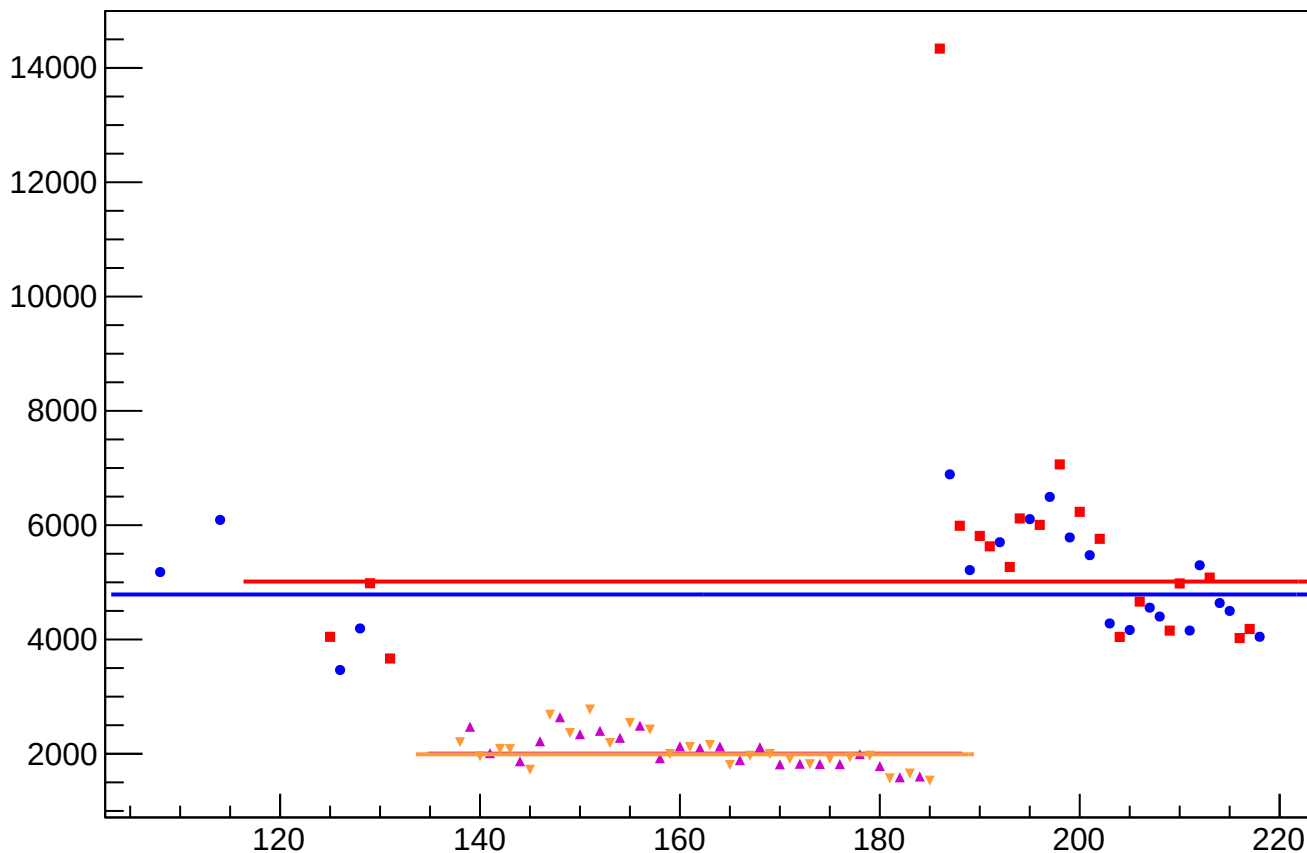
Right: -1386.833 $\pm$ 1028.394 χ^2 /NDF: 57.9/39

In: -891.115 $\pm$ 457.872 χ^2 /NDF:70.5/42

Out: -729.014 $\pm$ 447.486 χ^2 /NDF:63.4/44

All: -808.205 $\pm$ 320.029 χ^2 /NDF: 134.0/87

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4787.642+/-1.003 χ^2/NDF : 538789.3/19

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5013.495+/-1.056 χ^2/NDF : 1012657.6/19

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

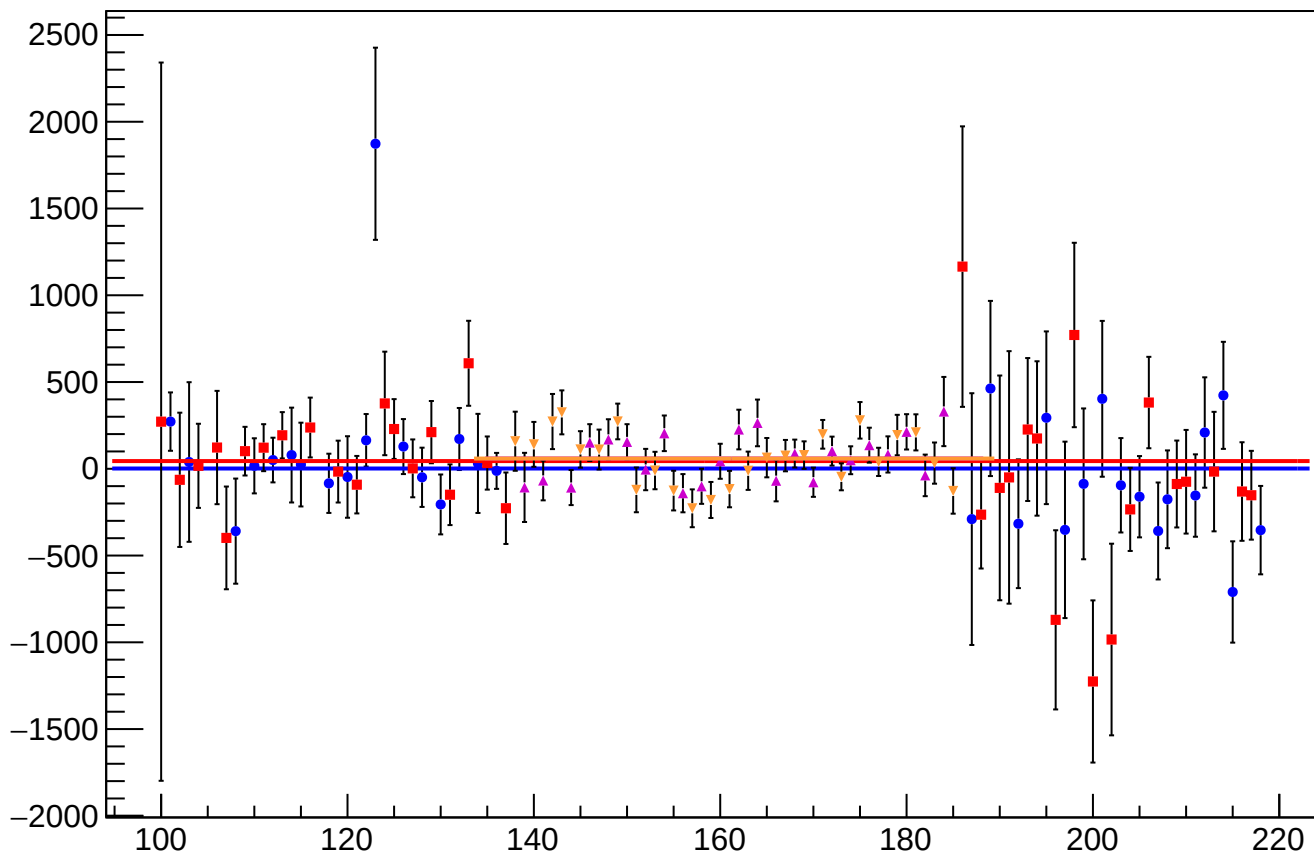
Right: 4894.736+/-0.727 χ^2/NDF : 1575498.5/39

In: 2292.497+/-0.324 χ^2/NDF : 8035884.7/42

Out: 2262.454+/-0.316 χ^2/NDF : 9194809.9/44

All: 2277.131+/-0.226 χ^2/NDF : 17235098.6/86

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 1.581 ± 38.378 χ^2/NDF : 36.9/32

Left Out: 58.983 ± 21.137 χ^2/NDF : 46.9/24

Right Out: 44.427 ± 38.549 χ^2/NDF : 41.3/35

Left In: 59.235 ± 21.921 χ^2/NDF : 29.4/22

Left: 59.104 ± 15.216 χ^2/NDF : 76.3/47

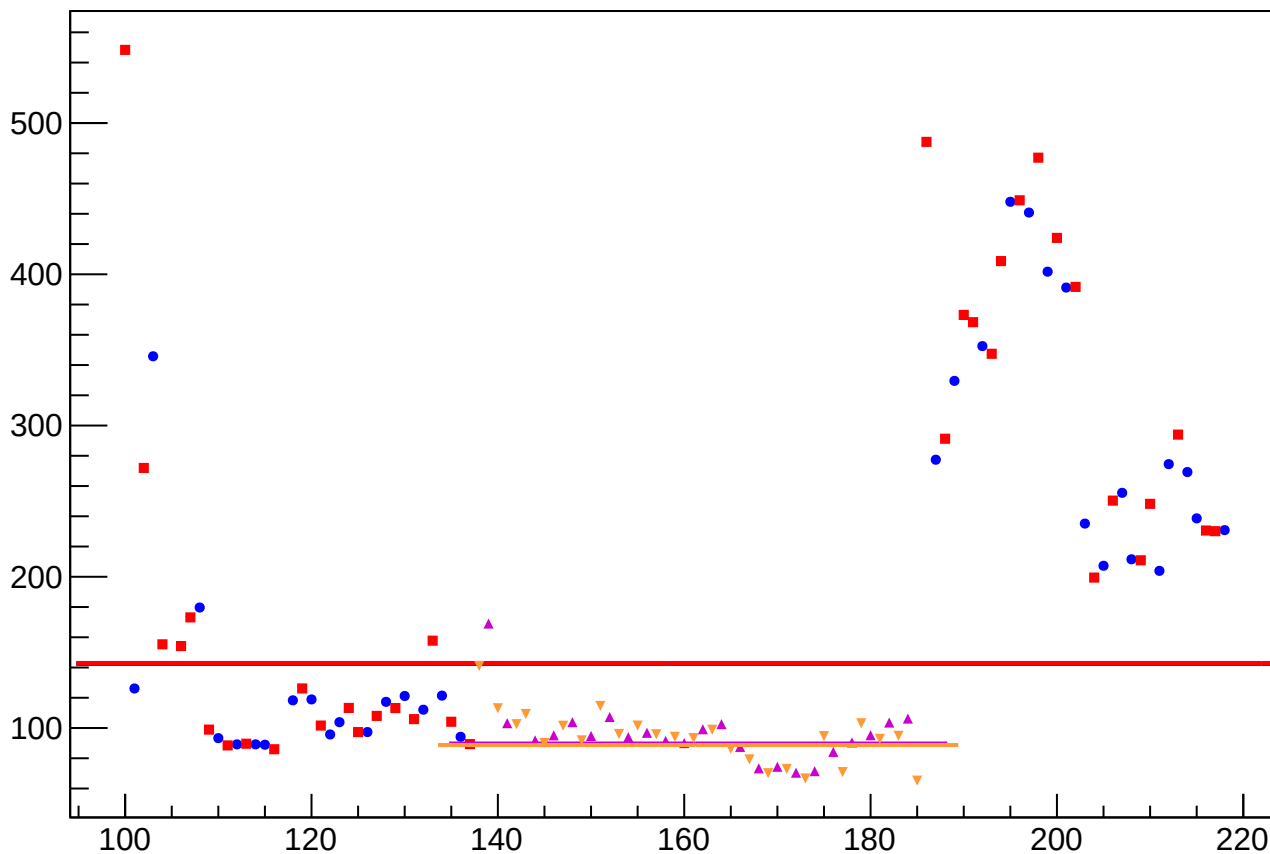
Right: 22.909 ± 27.198 χ^2/NDF : 78.9/68

In: 45.052 ± 19.035 χ^2/NDF : 68.0/55

Out: 55.618 ± 18.534 χ^2/NDF : 88.4/60

All: 50.476 ± 13.279 χ^2/NDF : 156.5/116

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 142.426 $\pm$ 0.027 χ^2 /NDF: 8007685.0/32

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 143.004 $\pm$ 0.027 χ^2 /NDF: 8934593.2/35

Left In: 89.766 $\pm$ 0.016 χ^2 /NDF:885818.0/22

Left: 89.238 $\pm$ 0.011 χ^2 /NDF: 1967390.0/47

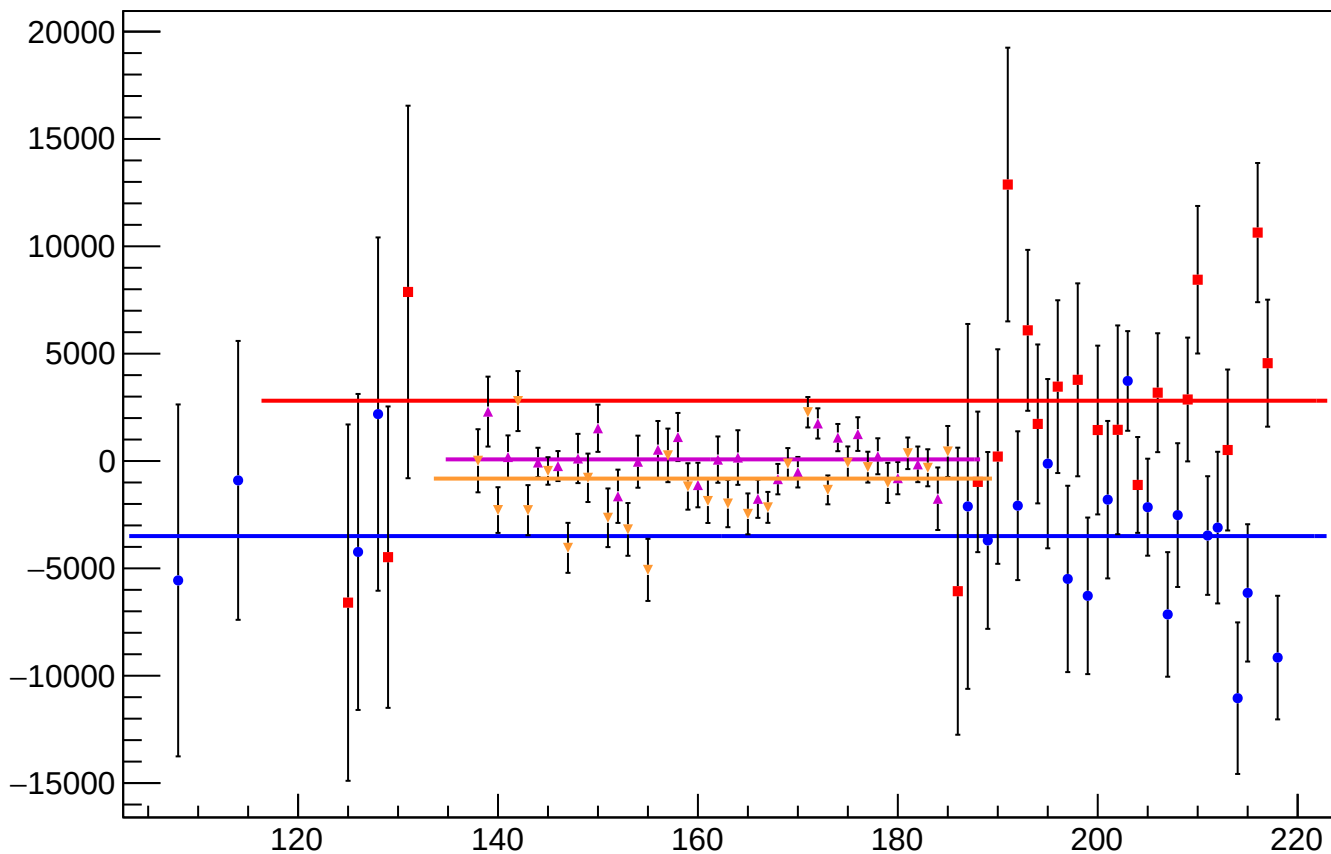
Right: 142.714 $\pm$ 0.019 χ^2 /NDF: 16942503.9/68

In: 102.720 $\pm$ 0.013 χ^2 /NDF:11732764.9/55

Out: 101.290 $\pm$ 0.013 χ^2 /NDF:13059963.5/60

All: 101.986 $\pm$ 0.009 χ^2 /NDF: 24798524.2/117

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -3496.525 $\pm$ 791.946 χ^2 /NDF: 23.5/19

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: 2808.301 $\pm$ 842.786 χ^2 /NDF: 22.0/19

Left In: 76.204 $\pm$ 186.651 χ^2 /NDF:28.3/22

Left: -376.610 $\pm$ 131.202 χ^2 /NDF: 108.1/47

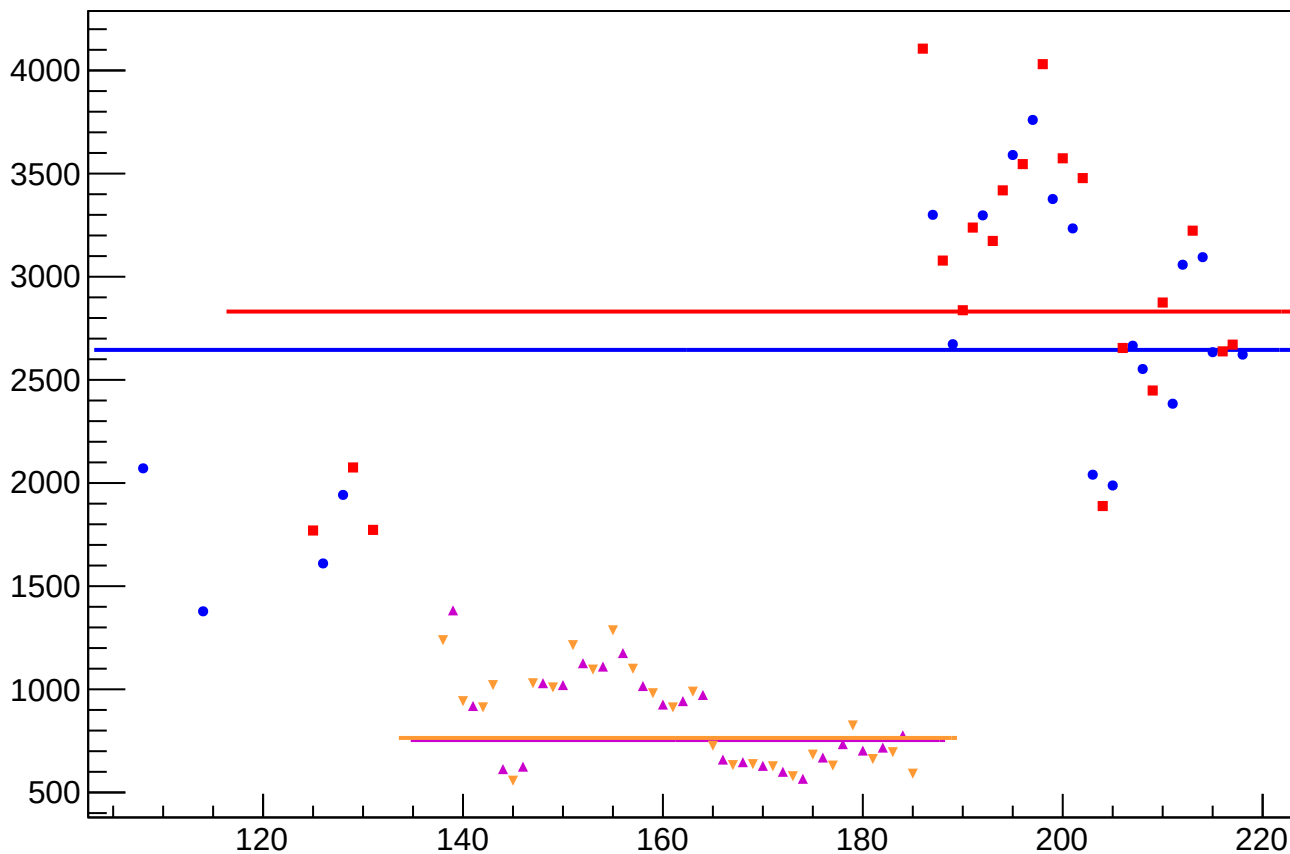
Right: -540.001 $\pm$ 577.127 χ^2 /NDF: 75.3/39

In: -111.810 $\pm$ 181.673 χ^2 /NDF:71.0/42

Out: -653.057 $\pm$ 180.198 χ^2 /NDF:107.9/44

All: -384.640 $\pm$ 127.938 χ^2 /NDF: 183.5/87

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2645.364+/-0.560 χ^2/NDF : 986417.7/19

Left Out: 764.280+/-0.130 χ^2/NDF : 2315985.8/24

Right Out: 2831.201+/-0.596 χ^2/NDF : 992770.5/19

Left In: 754.027+/-0.132 χ^2/NDF : 2013386.7/22

Left: 759.214+/-0.093 χ^2/NDF : 4332425.4/47

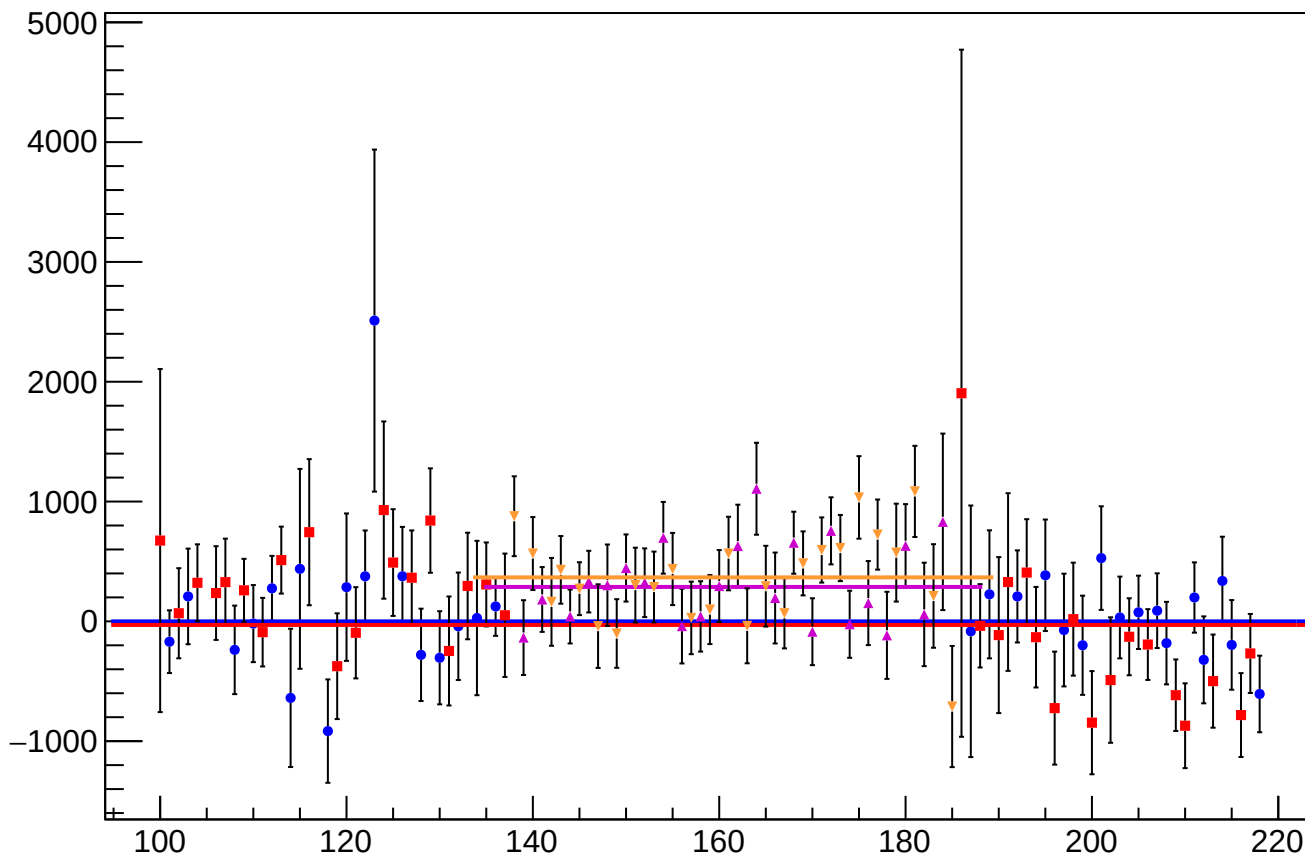
Right: 2732.508+/-0.408 χ^2/NDF : 2030831.3/39

In: 853.558+/-0.128 χ^2/NDF : 13806650.3/42

Out: 858.771+/-0.127 χ^2/NDF : 14788215.9/44

All: 856.186+/-0.090 χ^2/NDF : 28595696.2/87

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -0.185 ± 66.307 $\chi^2/\text{NDF}: 24.0/32$

Left Out: 367.028 ± 61.943 $\chi^2/\text{NDF}: 28.2/24$

Right Out: -30.008 ± 65.713 $\chi^2/\text{NDF}: 44.7/35$

Left In: 287.246 ± 64.141 $\chi^2/\text{NDF}: 23.9/22$

Left: 328.527 ± 44.557 $\chi^2/\text{NDF}: 52.9/47$

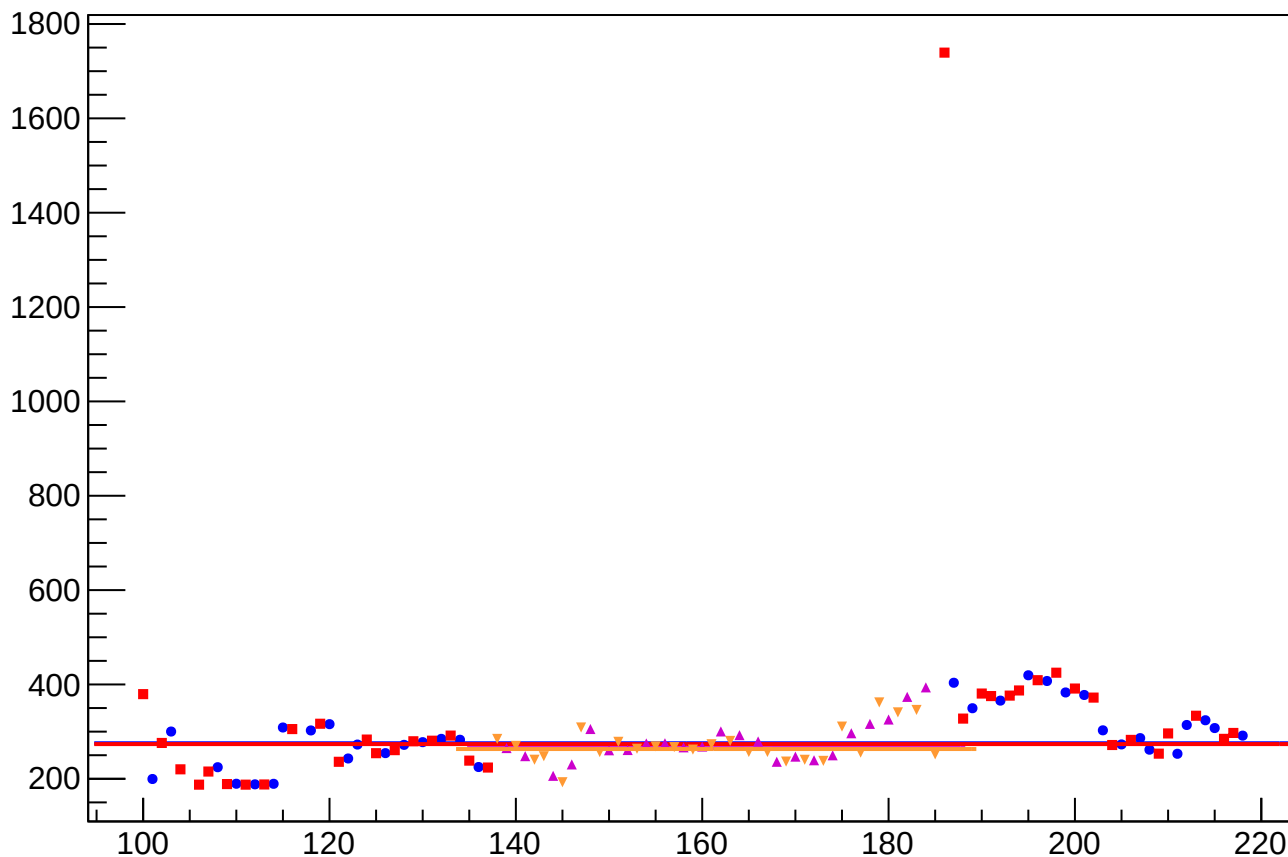
Right: -15.231 ± 46.675 $\chi^2/\text{NDF}: 68.8/68$

In: 148.303 ± 46.101 $\chi^2/\text{NDF}: 57.5/55$

Out: 180.225 ± 45.074 $\chi^2/\text{NDF}: 92.3/60$

All: 164.623 ± 32.229 $\chi^2/\text{NDF}: 150.1/116$

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 275.328+/-0.047 χ^2/NDF : 1614739.1/32

Left Out: 263.103+/-0.044 χ^2/NDF : 642226.0/24

Right Out: 273.571+/-0.046 χ^2/NDF : 2470547.9/35

Left In: 264.923+/-0.045 χ^2/NDF : 609024.7/22

Left: 263.981+/-0.032 χ^2/NDF : 1252084.1/47

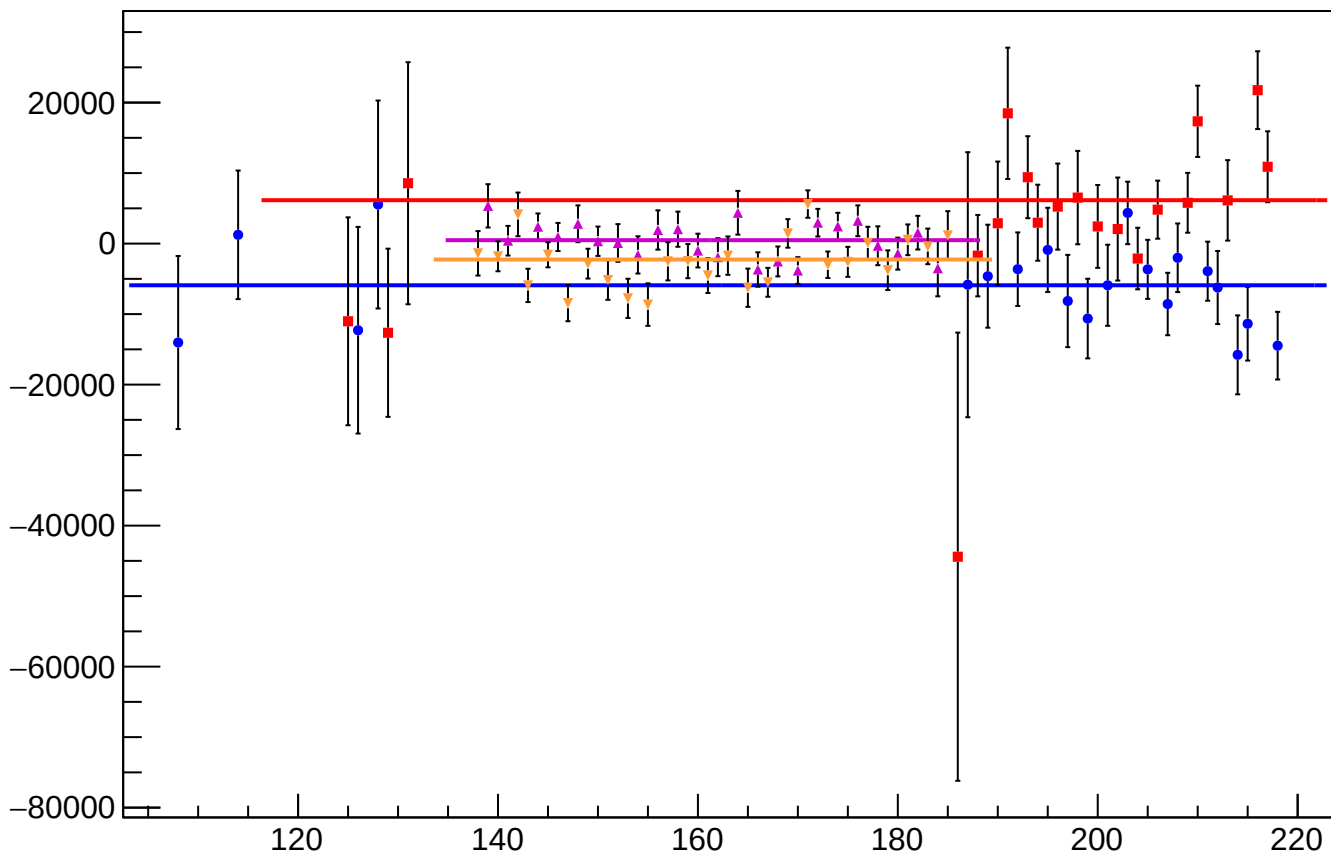
Right: 274.441+/-0.033 χ^2/NDF : 4085995.9/68

In: 269.953+/-0.033 χ^2/NDF : 2249206.2/55

Out: 268.028+/-0.032 χ^2/NDF : 3139645.5/60

All: 268.969+/-0.023 χ^2/NDF : 5390634.5/116

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -5911.799 ± 1283.782 $\chi^2/\text{NDF}: 17.9/19$

Left Out: -2260.196 ± 475.336 $\chi^2/\text{NDF}: 52.3/24$

Right Out: 6154.732 ± 1359.352 $\chi^2/\text{NDF}: 29.0/19$

Left In: 485.590 ± 487.465 $\chi^2/\text{NDF}: 24.8/22$

Left: -921.890 ± 340.321 $\chi^2/\text{NDF}: 93.4/47$

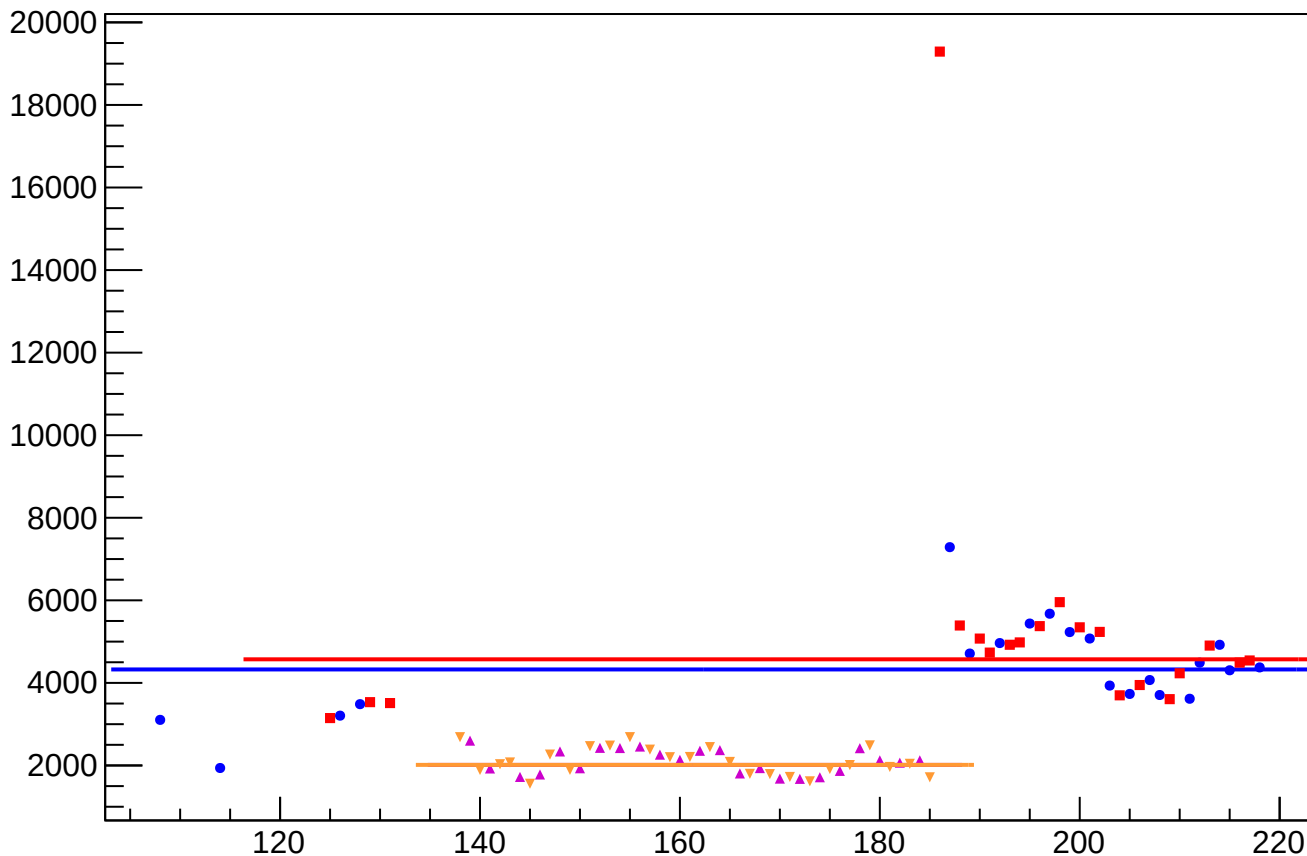
Right: -223.247 ± 933.343 $\chi^2/\text{NDF}: 88.6/39$

In: -320.556 ± 455.718 $\chi^2/\text{NDF}: 64.3/42$

Out: -1343.368 ± 448.694 $\chi^2/\text{NDF}: 115.5/44$

All: -839.905 ± 319.729 $\chi^2/\text{NDF}: 182.4/87$

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4325.857+/-0.908 χ^2/NDF : 677301.1/19

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4571.178+/-0.961 χ^2/NDF : 955482.0/19

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

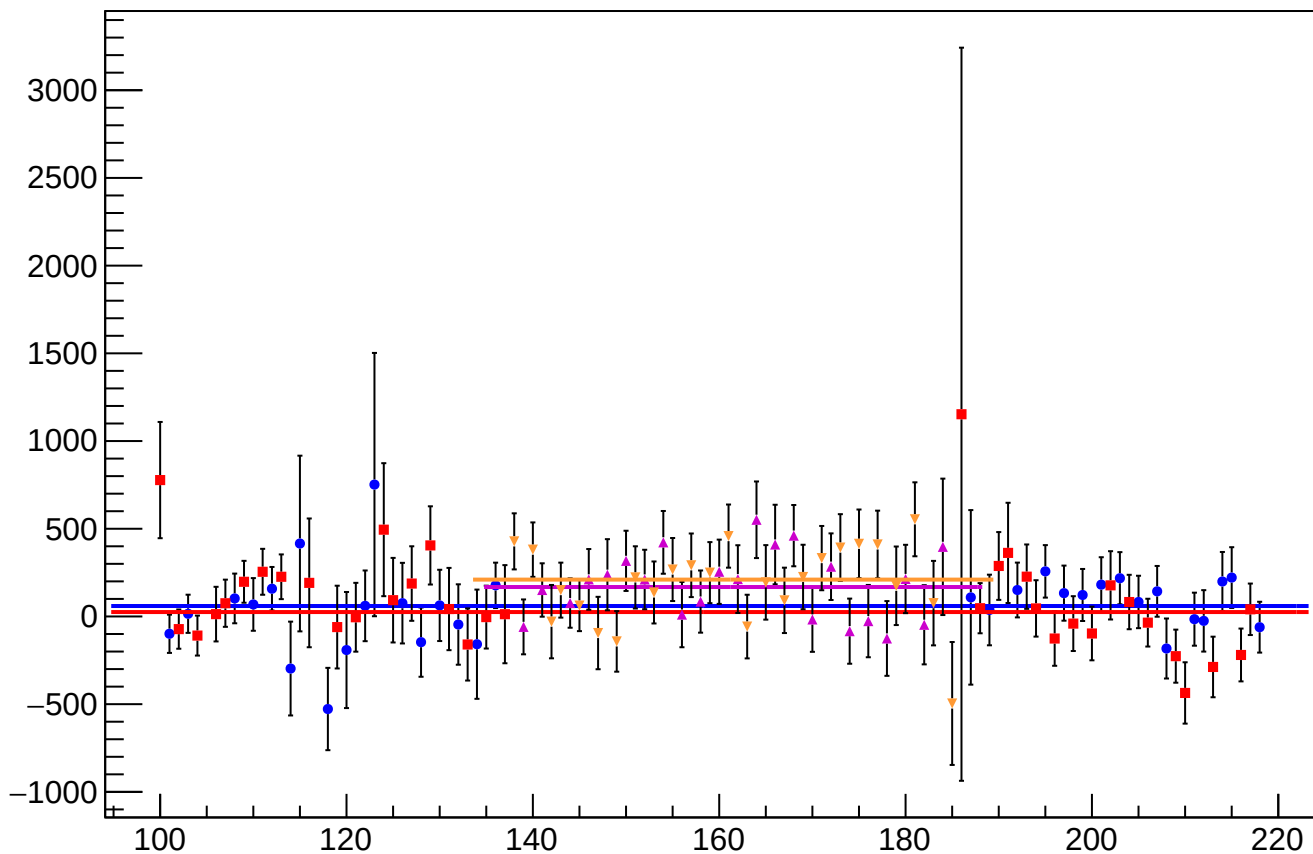
Right: 4441.509+/-0.660 χ^2/NDF : 1667212.9/39

In: 2304.661+/-0.322 χ^2/NDF : 7011674.0/42

Out: 2292.705+/-0.317 χ^2/NDF : 8097124.4/44

All: 2298.591+/-0.226 χ^2/NDF : 15109497.3/86

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 59.565 $\pm$ 29.322 χ^2/NDF : 24.9/32

Left Out: 210.086 $\pm$ 37.093 χ^2/NDF :27.5/24

Right Out: 25.139 $\pm$ 28.169 χ^2/NDF : 44.5/35

Left In: 167.822 $\pm$ 38.718 χ^2/NDF :21.1/22

Left: 189.859 $\pm$ 26.785 χ^2/NDF : 49.3/47

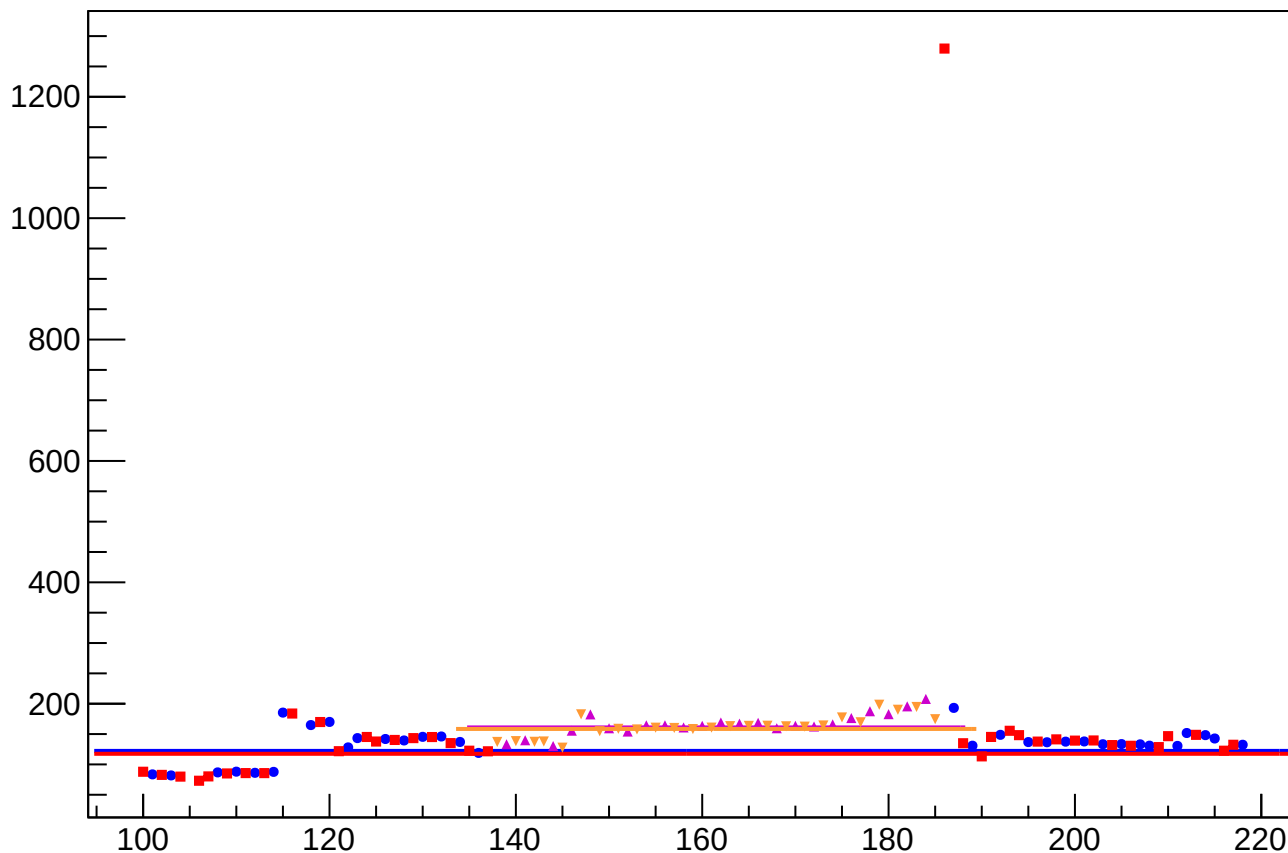
Right: 41.662 $\pm$ 20.314 χ^2/NDF : 70.2/68

In: 99.024 $\pm$ 23.375 χ^2/NDF :51.0/55

Out: 92.786 $\pm$ 22.433 χ^2/NDF :87.8/60

All: 95.777 $\pm$ 16.186 χ^2/NDF : 138.9/116

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 122.257+/-0.021 χ^2/NDF : 1548731.4/32

Left Out: 158.440+/-0.026 χ^2/NDF : 434300.9/24

Right Out: 117.488+/-0.020 χ^2/NDF : 2578159.0/35

Left In: 160.947+/-0.027 χ^2/NDF : 379713.4/22

Left: 159.640+/-0.019 χ^2/NDF : 818385.9/47

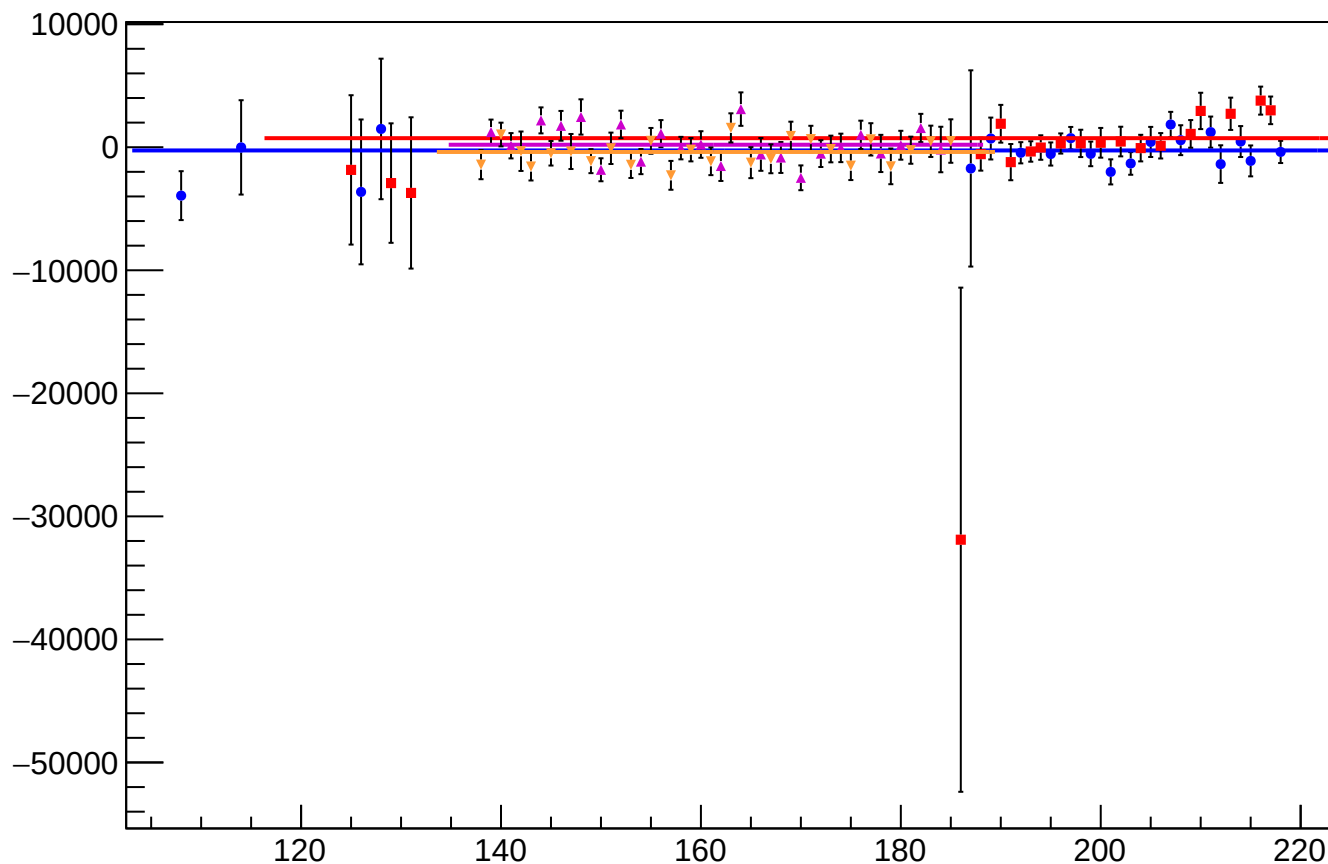
Right: 119.777+/-0.014 χ^2/NDF : 4154394.5/68

In: 136.359+/-0.017 χ^2/NDF : 3197656.1/55

Out: 132.467+/-0.016 χ^2/NDF : 4558543.3/60

All: 134.333+/-0.011 χ^2/NDF : 7785063.6/116

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -261.432+/-273.151 χ^2/NDF : 17.6/19

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: 735.817+/-278.725 χ^2/NDF : 26.7/19

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

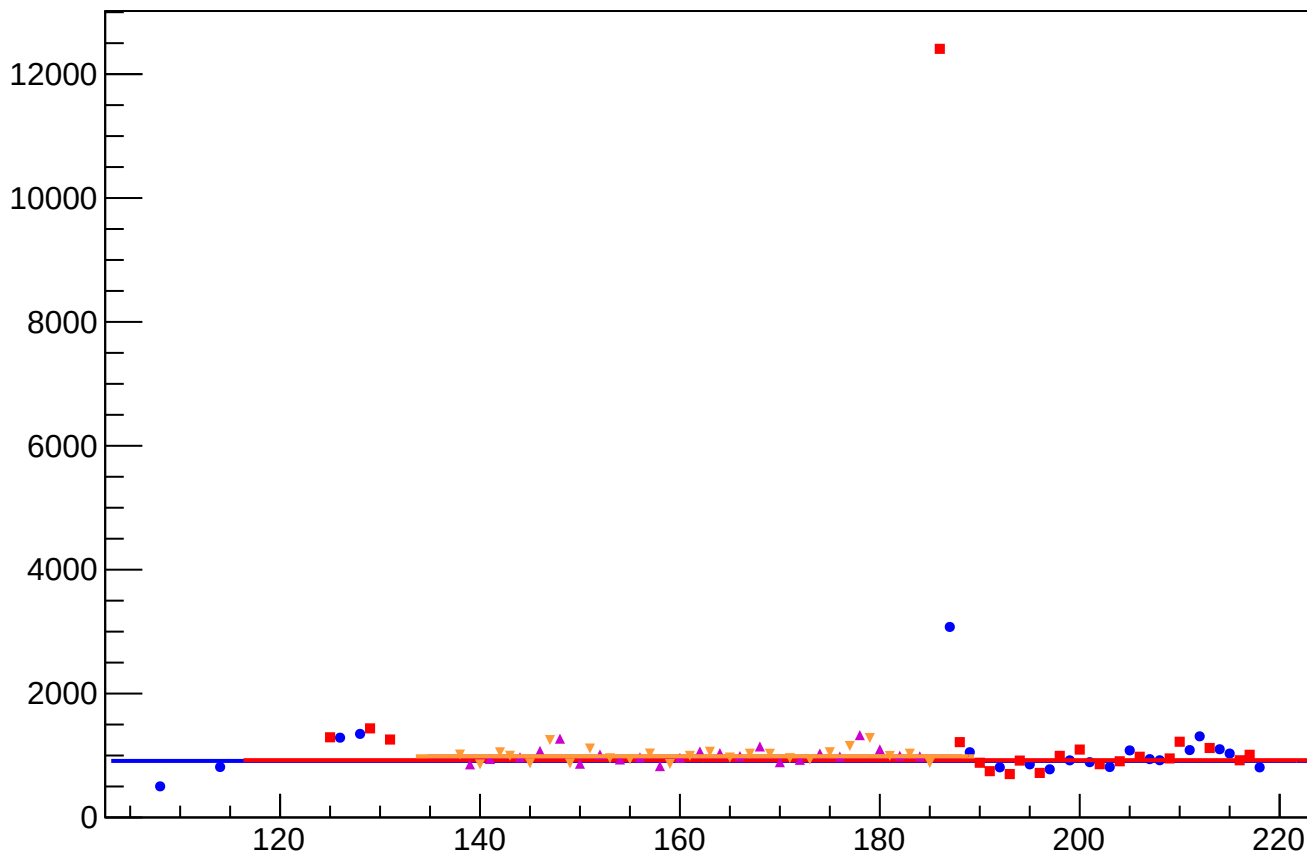
Right: 227.121+/-195.088 χ^2/NDF : 50.8/39

In: 2.653+/-179.209 χ^2/NDF : 54.7/42

Out: 73.318+/-178.237 χ^2/NDF : 54.3/44

All: 38.178+/-126.375 χ^2/NDF : 109.1/87

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 912.597+/-0.193 χ^2/NDF : 674273.2/19

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 924.647+/-0.197 χ^2/NDF : 1261677.6/19

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

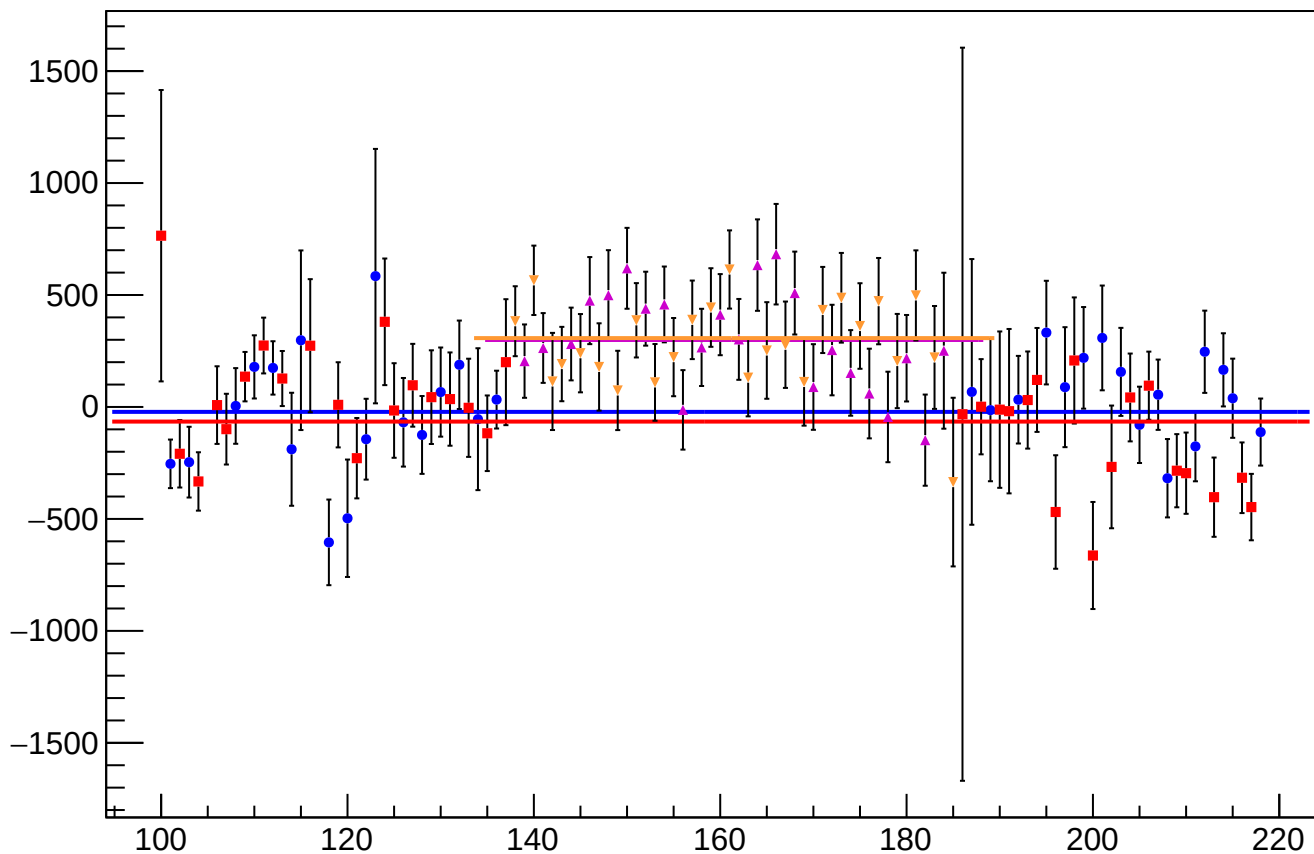
Right: 918.500+/-0.138 χ^2/NDF : 1937857.3/39

In: 953.205+/-0.127 χ^2/NDF : 1168143.9/42

Out: 962.016+/-0.126 χ^2/NDF : 1699458.3/44

All: 957.634+/-0.089 χ^2/NDF : 2870032.7/87

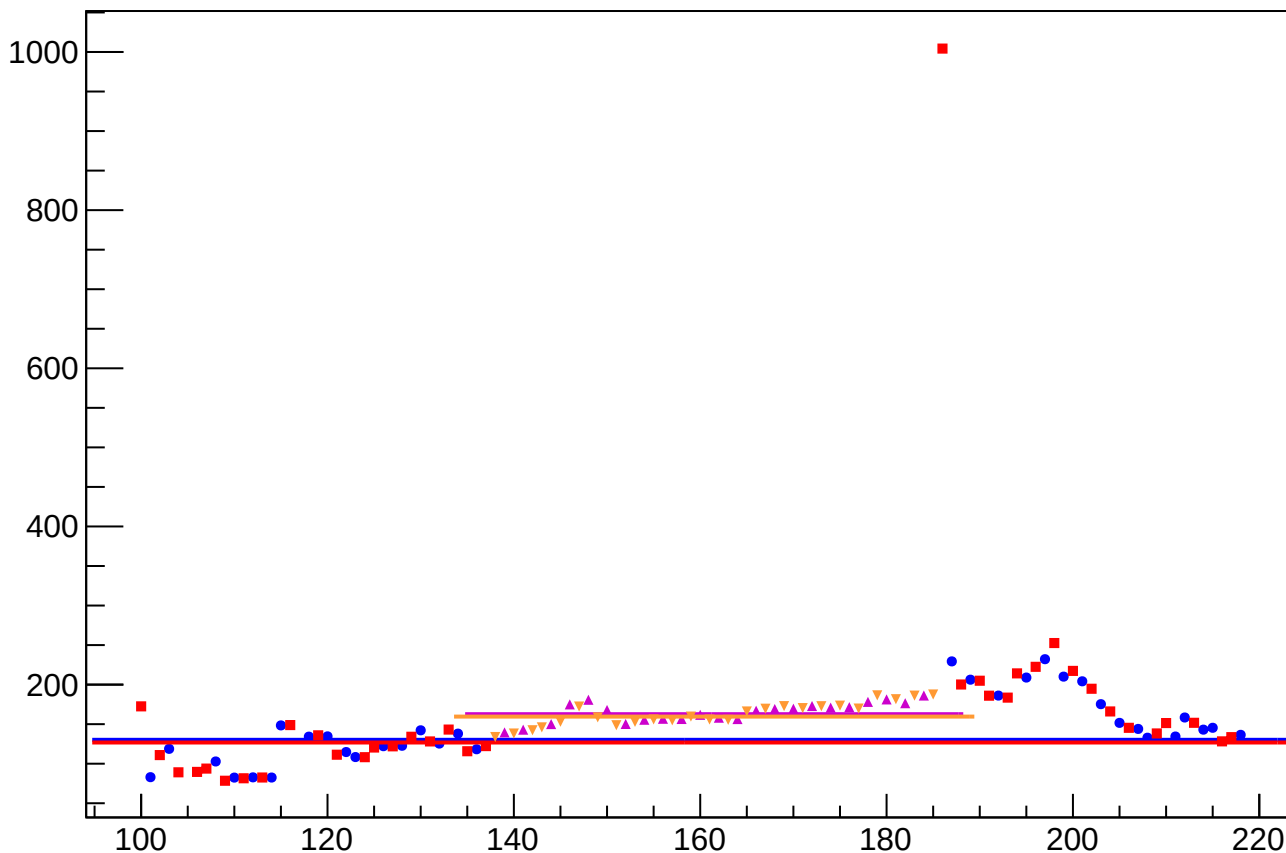
reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -21.939 ± 31.855 $\chi^2/\text{NDF}: 43.2/32$
 Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$
 Right Out: -65.315 ± 31.137 $\chi^2/\text{NDF}: 56.2/35$
 Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$
 Right: -44.121 ± 22.267 $\chi^2/\text{NDF}: 100.4/68$
 In: 106.533 ± 24.673 $\chi^2/\text{NDF}: 112.4/55$
 Out: 87.892 ± 23.897 $\chi^2/\text{NDF}: 135.8/60$
 All: 96.915 ± 17.166 $\chi^2/\text{NDF}: 248.5/116$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 130.208+/-0.023 χ^2/NDF : 2653047.7/32

Left Out: 159.568+/-0.026 χ^2/NDF : 287744.2/24

Right Out: 126.806+/-0.022 χ^2/NDF : 4029877.7/35

Left In: 162.606+/-0.028 χ^2/NDF : 199542.3/22

Left: 161.019+/-0.019 χ^2/NDF : 493626.9/47

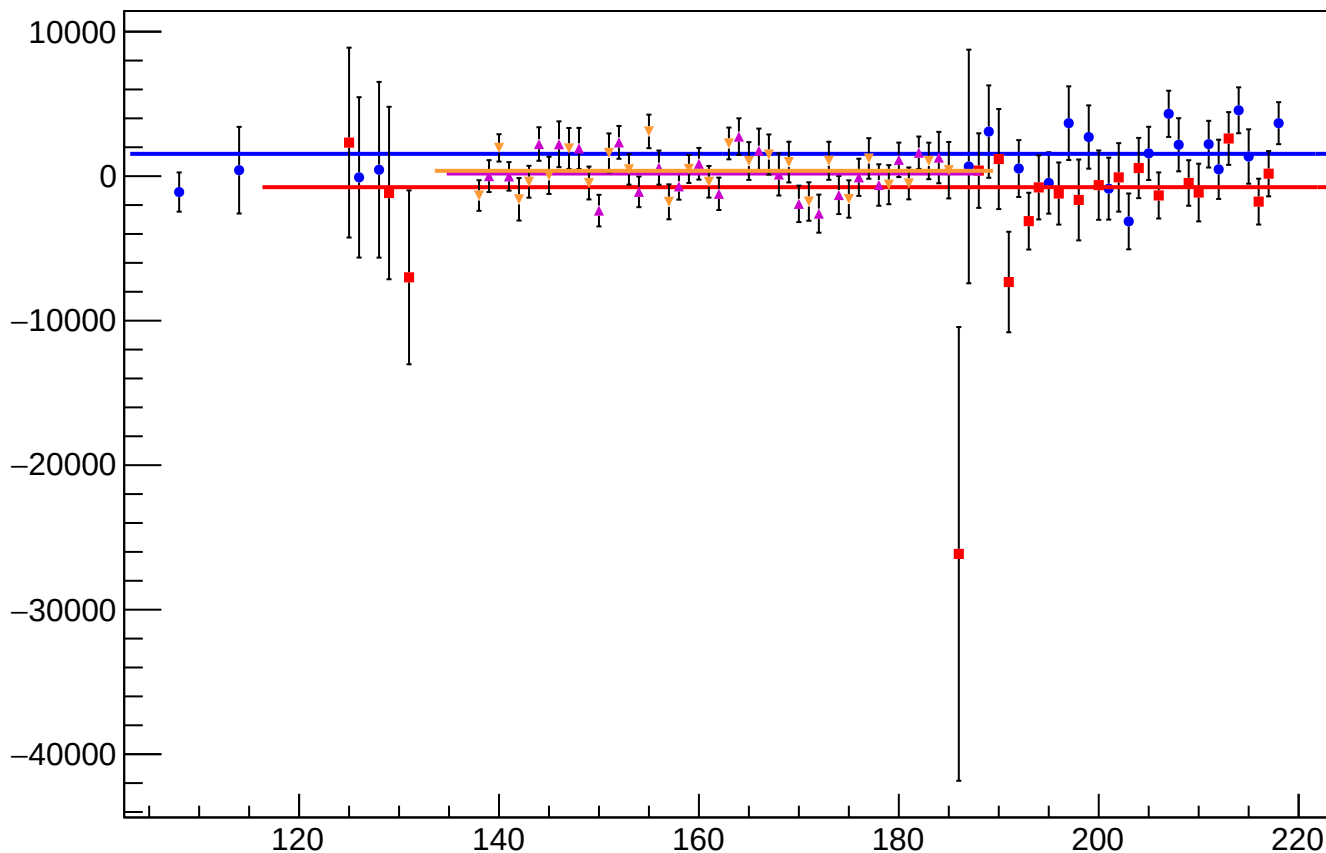
Right: 128.468+/-0.016 χ^2/NDF : 6694589.2/68

In: 143.169+/-0.017 χ^2/NDF : 3680270.6/55

Out: 140.270+/-0.017 χ^2/NDF : 5227601.5/60

All: 141.673+/-0.012 χ^2/NDF : 8922119.8/116

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 1544.987+/-451.277 χ^2/NDF : 22.9/19

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -762.247+/-503.748 χ^2/NDF : 14.4/19

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

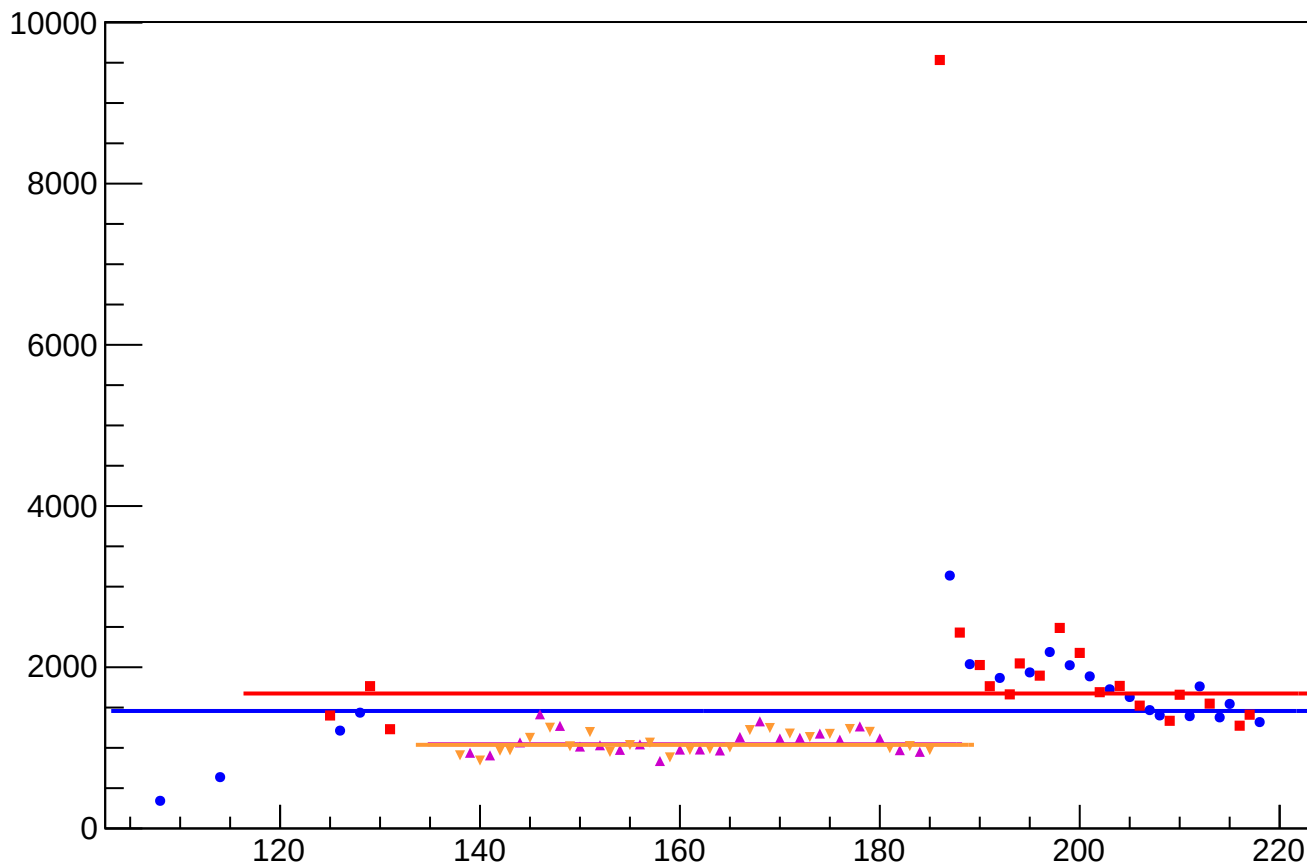
Right: 517.752+/-336.126 χ^2/NDF : 48.9/39

In: 507.338+/-220.192 χ^2/NDF :66.3/42

Out: 155.525+/-219.246 χ^2/NDF :49.0/44

All: 330.674+/-155.364 χ^2/NDF : 116.5/87

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1457.554+/-0.319 χ^2/NDF : 2356514.8/19

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1674.290+/-0.356 χ^2/NDF : 1352307.8/19

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

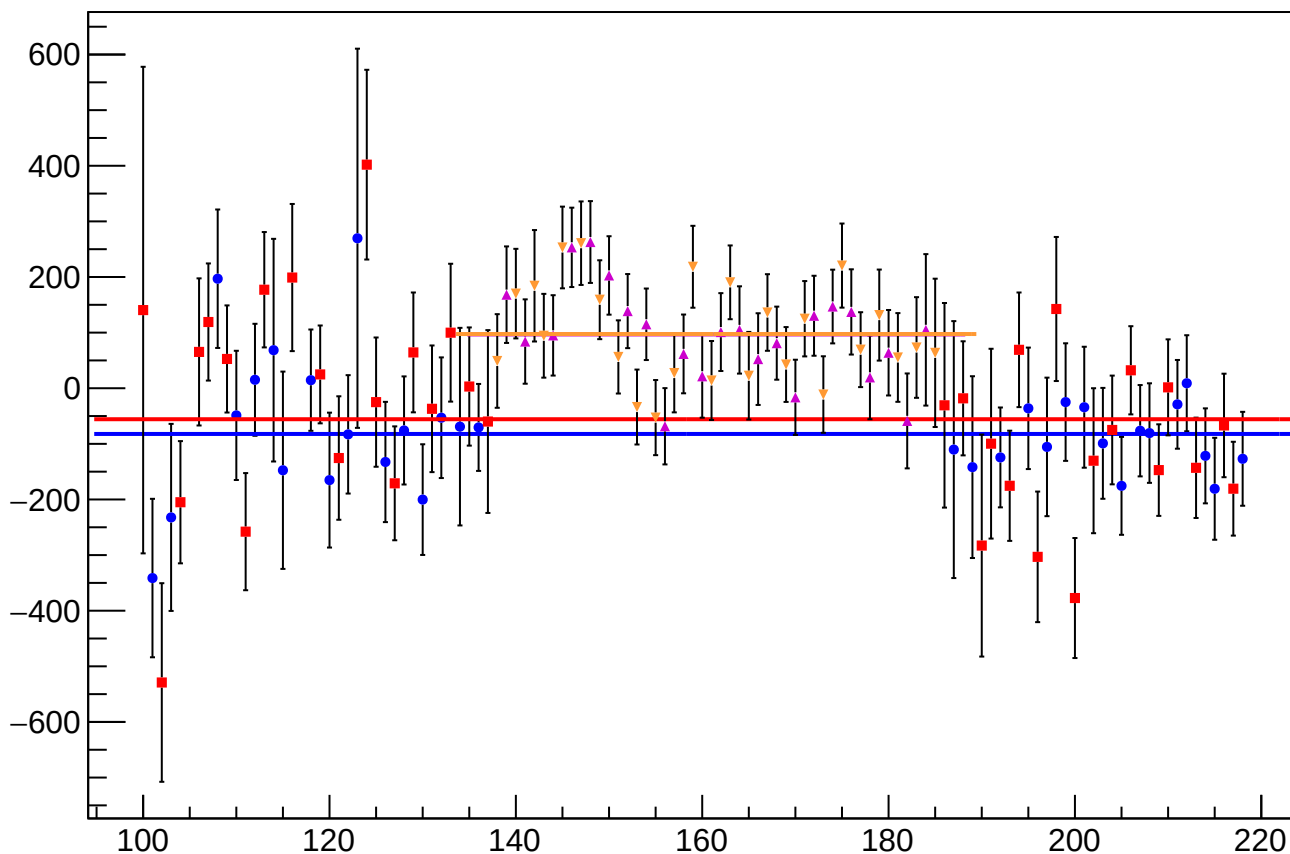
Right: 1554.050+/-0.238 χ^2/NDF : 3914214.5/39

In: 1143.025+/-0.156 χ^2/NDF : 4174951.9/42

Out: 1158.277+/-0.155 χ^2/NDF : 4436279.0/44

All: 1150.684+/-0.110 χ^2/NDF : 8616049.5/87

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -82.197 ± 18.474 χ^2/NDF : 20.7/32

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -55.717 ± 18.366 χ^2/NDF : 65.8/35

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

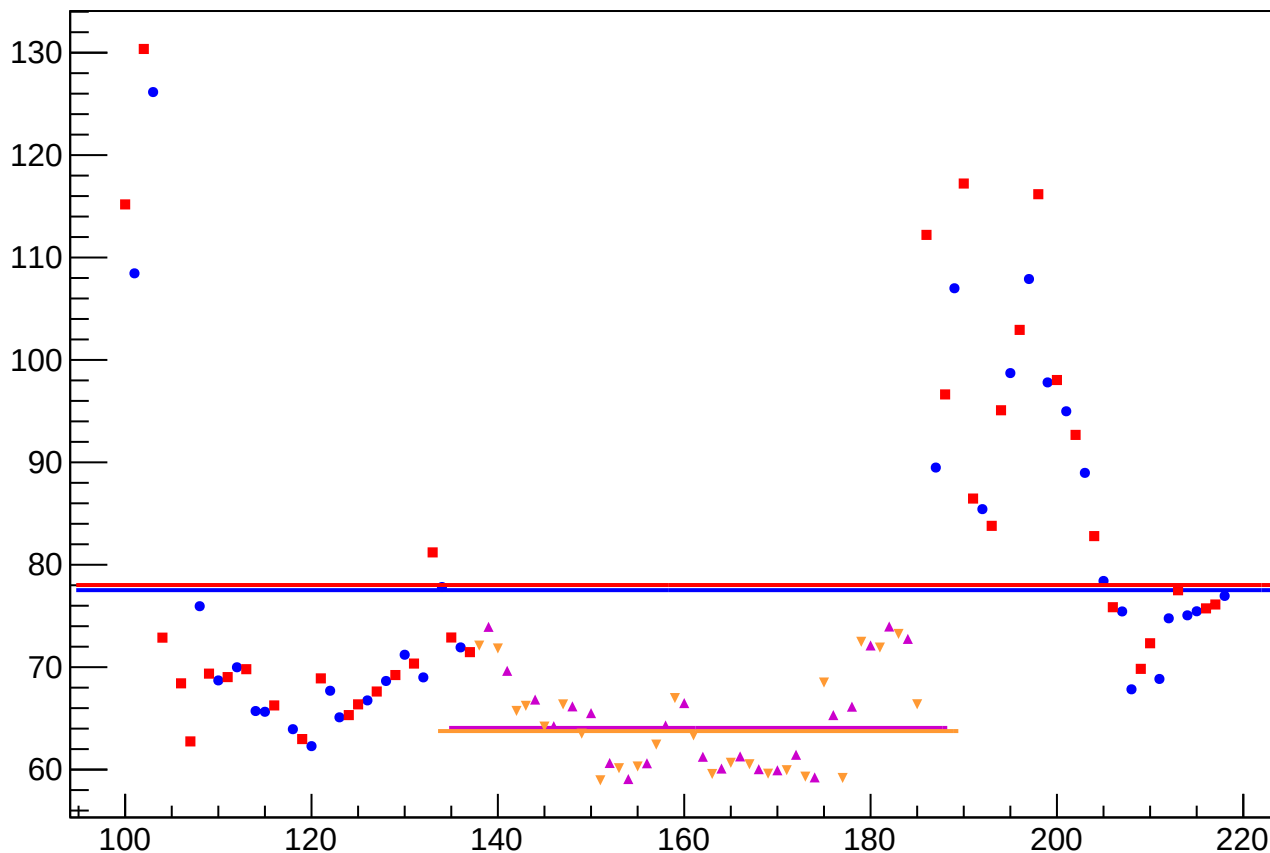
Right: -68.880 ± 13.025 χ^2/NDF : 87.5/68

In: 23.528 ± 11.815 χ^2/NDF : 105.3/55

Out: 36.750 ± 11.562 χ^2/NDF : 143.8/60

All: 30.283 ± 8.263 χ^2/NDF : 249.8/116

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.521 $\pm$ 0.013 χ^2 /NDF: 948617.1/32

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 78.021 $\pm$ 0.013 χ^2 /NDF: 1131181.2/35

Left In: 64.069 $\pm$ 0.011 χ^2 /NDF: 164660.4/22

Left: 63.910 $\pm$ 0.008 χ^2 /NDF: 357877.2/47

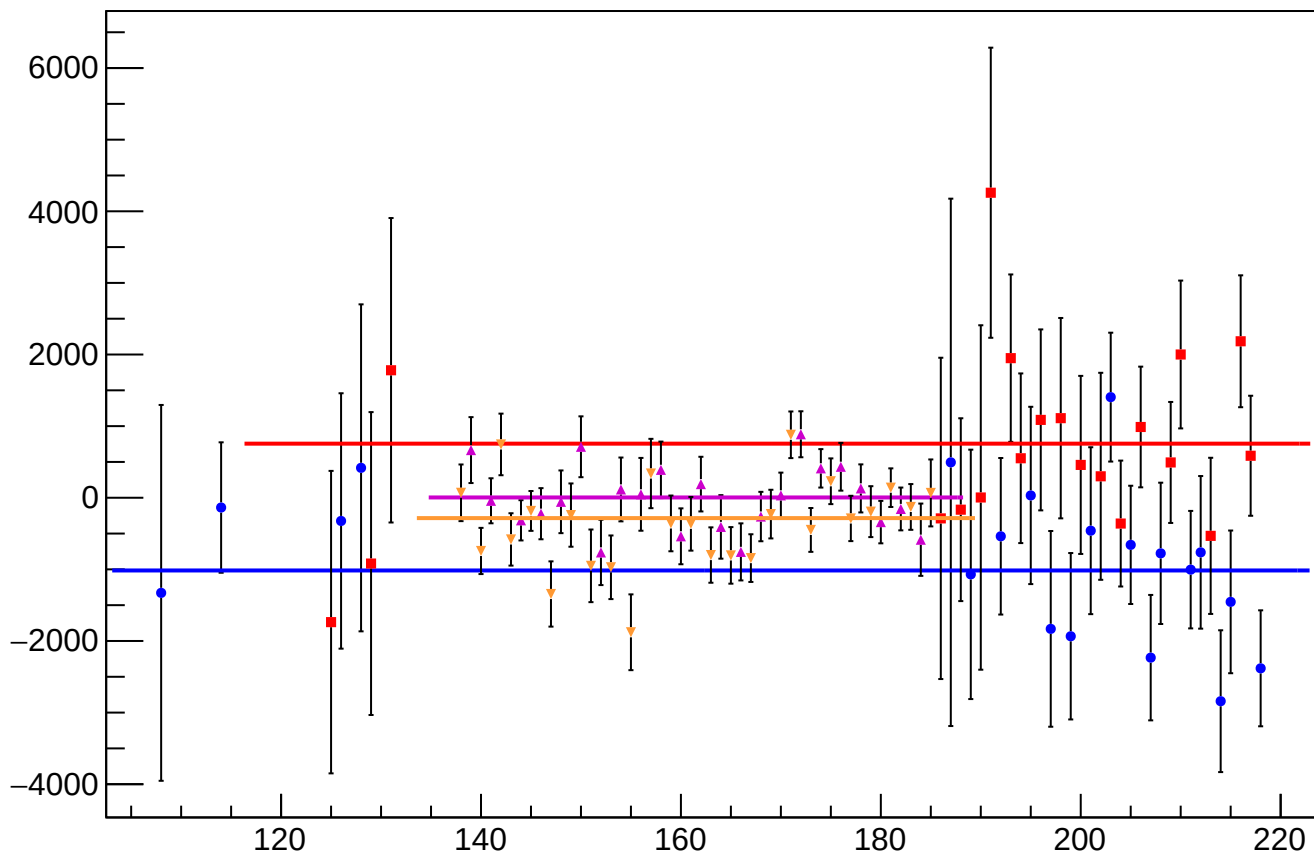
Right: 77.773 $\pm$ 0.009 χ^2 /NDF: 2080536.6/68

In: 69.571 $\pm$ 0.008 χ^2 /NDF: 1739984.1/55

Out: 69.412 $\pm$ 0.008 χ^2 /NDF: 2051913.6/60

All: 69.490 $\pm$ 0.006 χ^2 /NDF: 3792082.2/116

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -1015.456 ± 244.577 $\chi^2/\text{NDF}: 19.7/19$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 755.279 ± 266.371 $\chi^2/\text{NDF}: 14.5/19$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

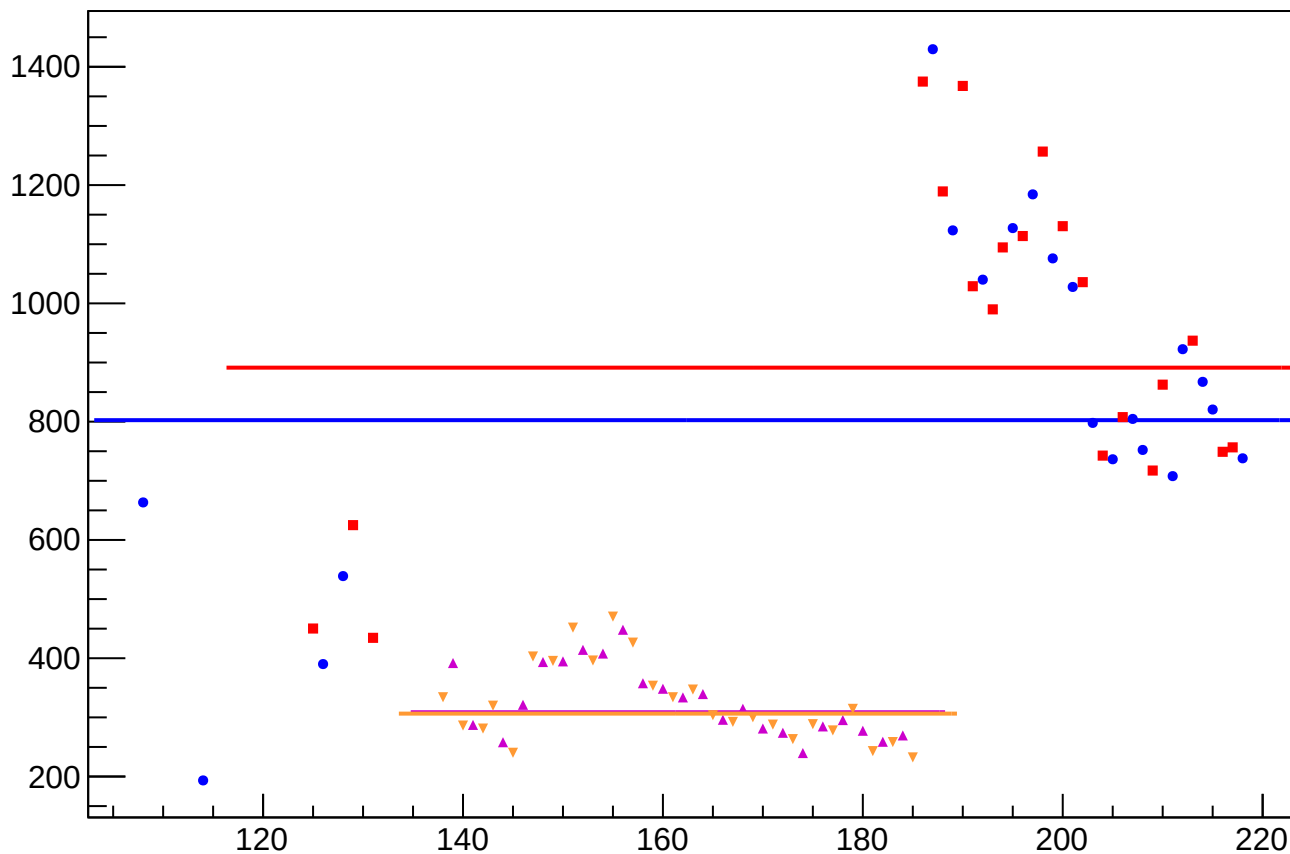
Right: -205.480 ± 180.155 $\chi^2/\text{NDF}: 58.2/39$

In: -83.772 ± 71.778 $\chi^2/\text{NDF}: 67.9/42$

Out: -212.174 ± 70.164 $\chi^2/\text{NDF}: 83.8/44$

All: -149.433 ± 50.174 $\chi^2/\text{NDF}: 153.3/87$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 802.532 $\pm$ 0.173 χ^2 /NDF: 1826116.4/19

Left Out: 306.363 $\pm$ 0.051 χ^2 /NDF:1215669.9/24

Right Out: 891.324 $\pm$ 0.188 χ^2 /NDF: 1132891.9/19

Left In: 308.727 $\pm$ 0.053 χ^2 /NDF:1002947.4/22

Left: 307.507 $\pm$ 0.037 χ^2 /NDF: 2219640.0/47

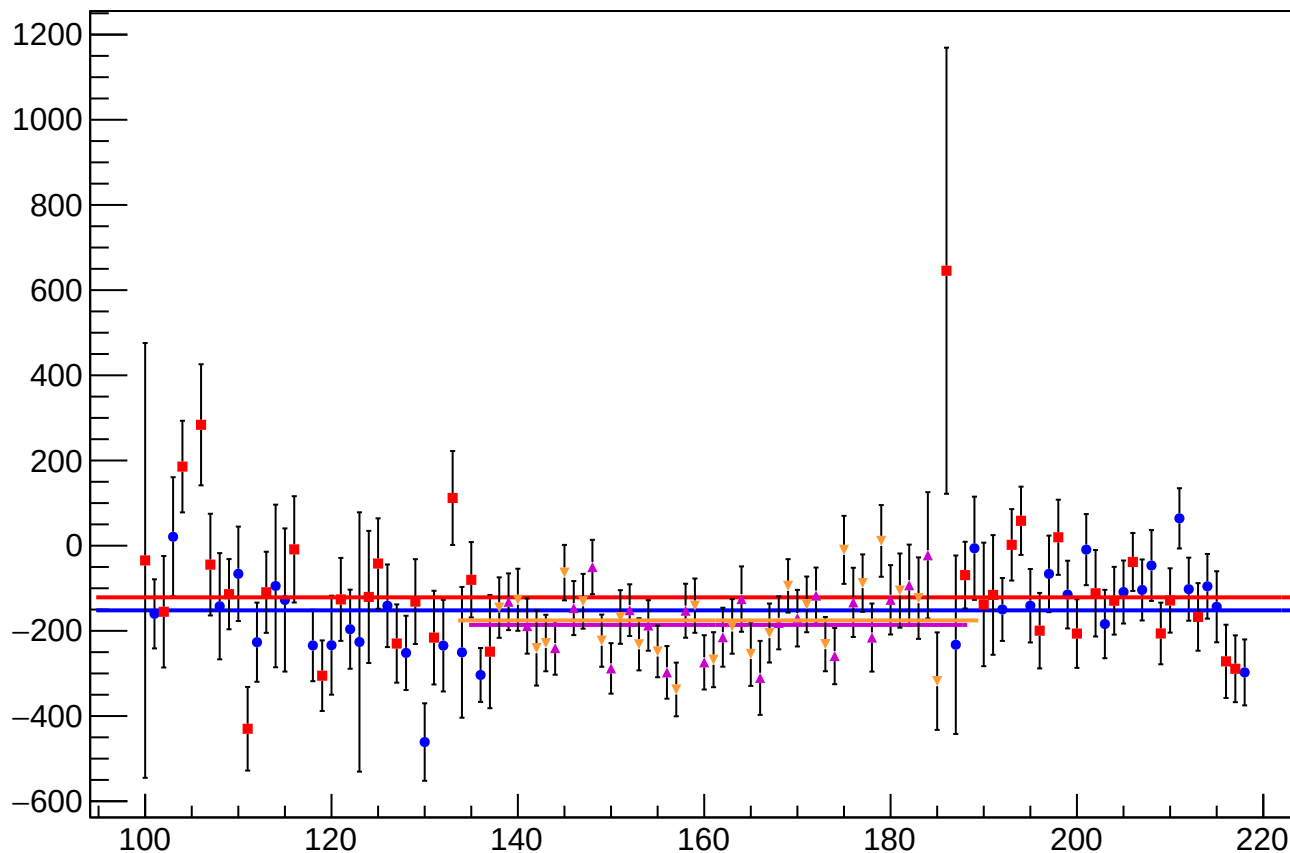
Right: 843.147 $\pm$ 0.127 χ^2 /NDF: 3079585.5/39

In: 351.258 $\pm$ 0.051 χ^2 /NDF:10279729.6/42

Out: 346.949 $\pm$ 0.050 χ^2 /NDF:11324535.8/44

All: 349.055 $\pm$ 0.035 χ^2 /NDF: 21607950.4/87

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -151.858 ± 15.840 $\chi^2/\text{NDF}: 46.4/32$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -121.334 ± 15.990 $\chi^2/\text{NDF}: 65.8/35$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

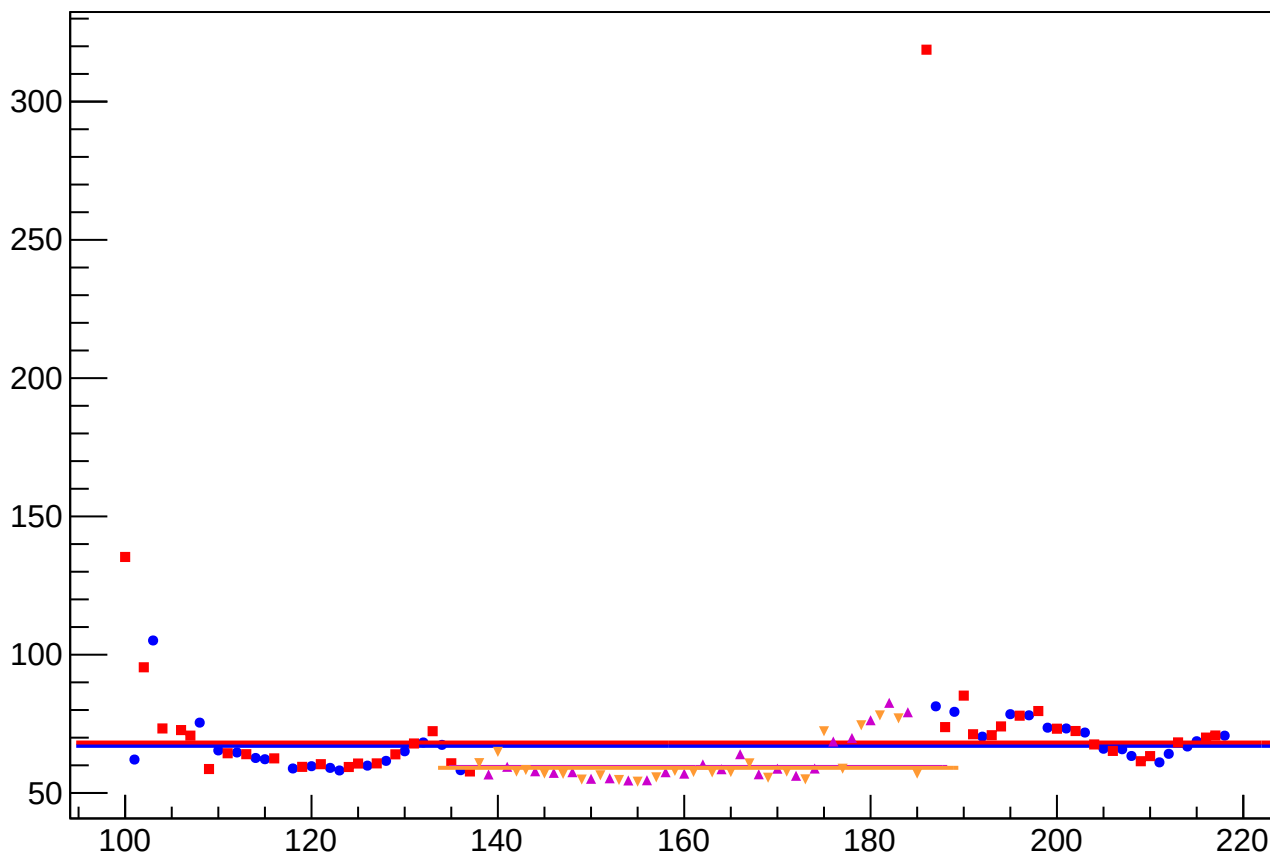
Right: -136.741 ± 11.253 $\chi^2/\text{NDF}: 114.1/68$

In: -170.676 ± 10.621 $\chi^2/\text{NDF}: 72.5/55$

Out: -152.274 ± 10.467 $\chi^2/\text{NDF}: 107.0/60$

All: -161.341 ± 7.455 $\chi^2/\text{NDF}: 181.0/116$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.046 $\pm$ 0.011 χ^2 /NDF: 430515.9/32

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.243 $\pm$ 0.011 χ^2 /NDF: 875580.6/35

Left In: 59.410 $\pm$ 0.010 χ^2 /NDF: 373052.7/22

Left: 59.250 $\pm$ 0.007 χ^2 /NDF: 743329.1/47

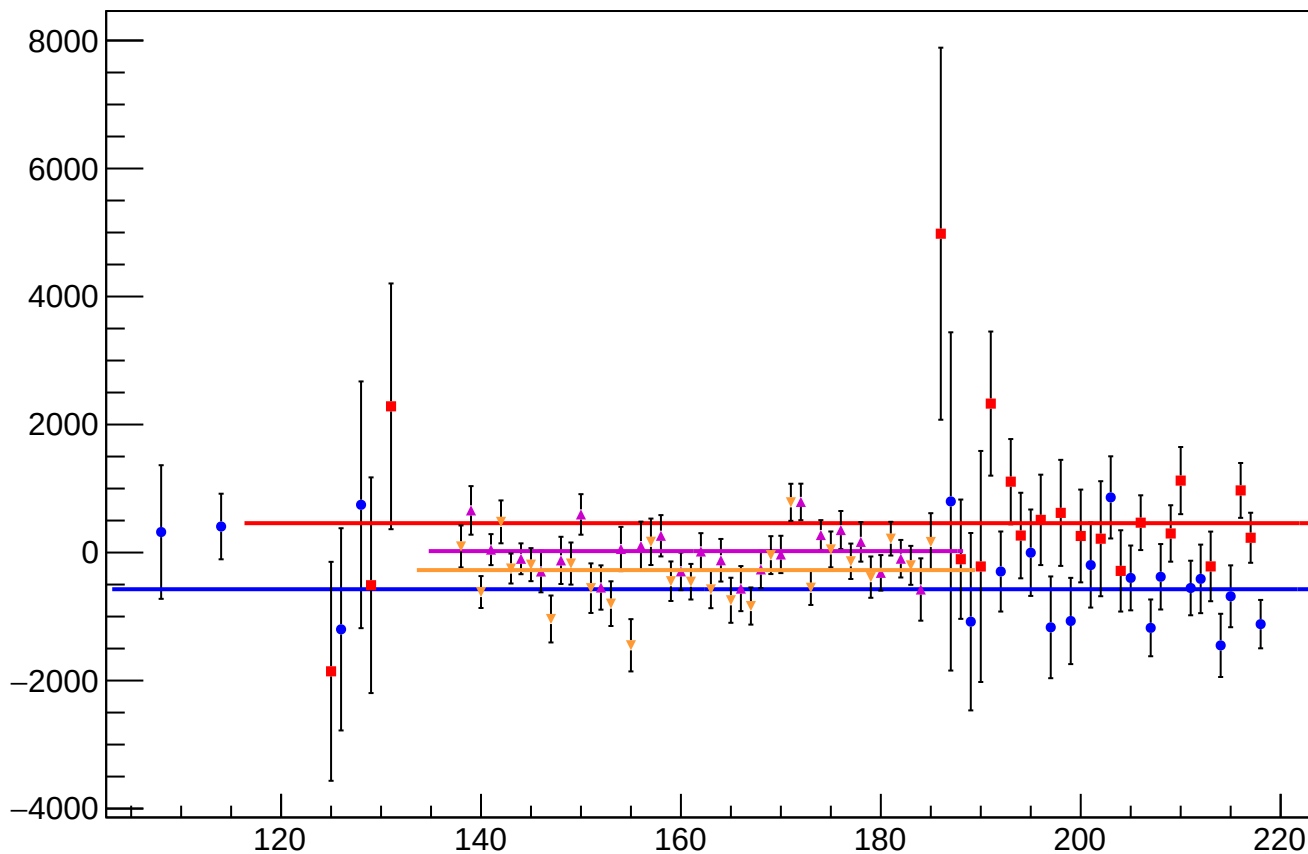
Right: 67.639 $\pm$ 0.008 χ^2 /NDF: 1311761.3/68

In: 62.843 $\pm$ 0.008 χ^2 /NDF: 1059354.0/55

Out: 63.017 $\pm$ 0.007 χ^2 /NDF: 1619151.1/60

All: 62.931 $\pm$ 0.005 χ^2 /NDF: 2678778.9/116

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -573.040 $\pm$ 133.068 χ^2 /NDF: 20.3/19

Left Out: -274.091 $\pm$ 60.799 χ^2 /NDF:53.9/24

Right Out: 458.943 $\pm$ 146.615 χ^2 /NDF: 16.4/19

Left In: 22.631 $\pm$ 63.643 χ^2 /NDF:28.9/22

Left: -132.507 $\pm$ 43.963 χ^2 /NDF: 94.2/47

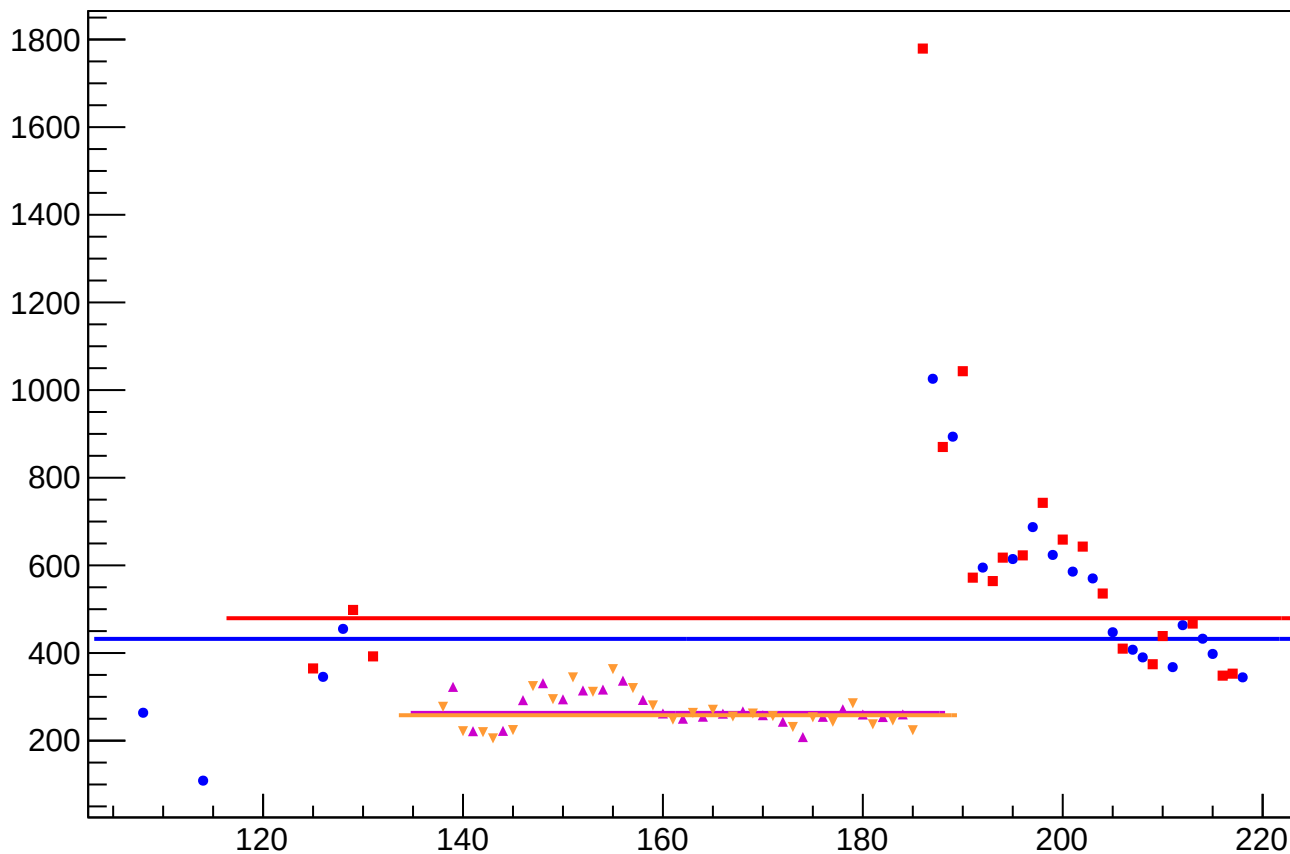
Right: -106.920 $\pm$ 98.535 χ^2 /NDF: 63.8/39

In: -88.261 $\pm$ 57.414 χ^2 /NDF:65.5/42

Out: -166.532 $\pm$ 56.162 χ^2 /NDF:91.6/44

All: -128.259 $\pm$ 40.148 χ^2 /NDF: 158.0/87

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 432.260+/-0.094 χ^2/NDF : 2218462.8/19

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 479.402+/-0.104 χ^2/NDF : 2155895.1/19

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

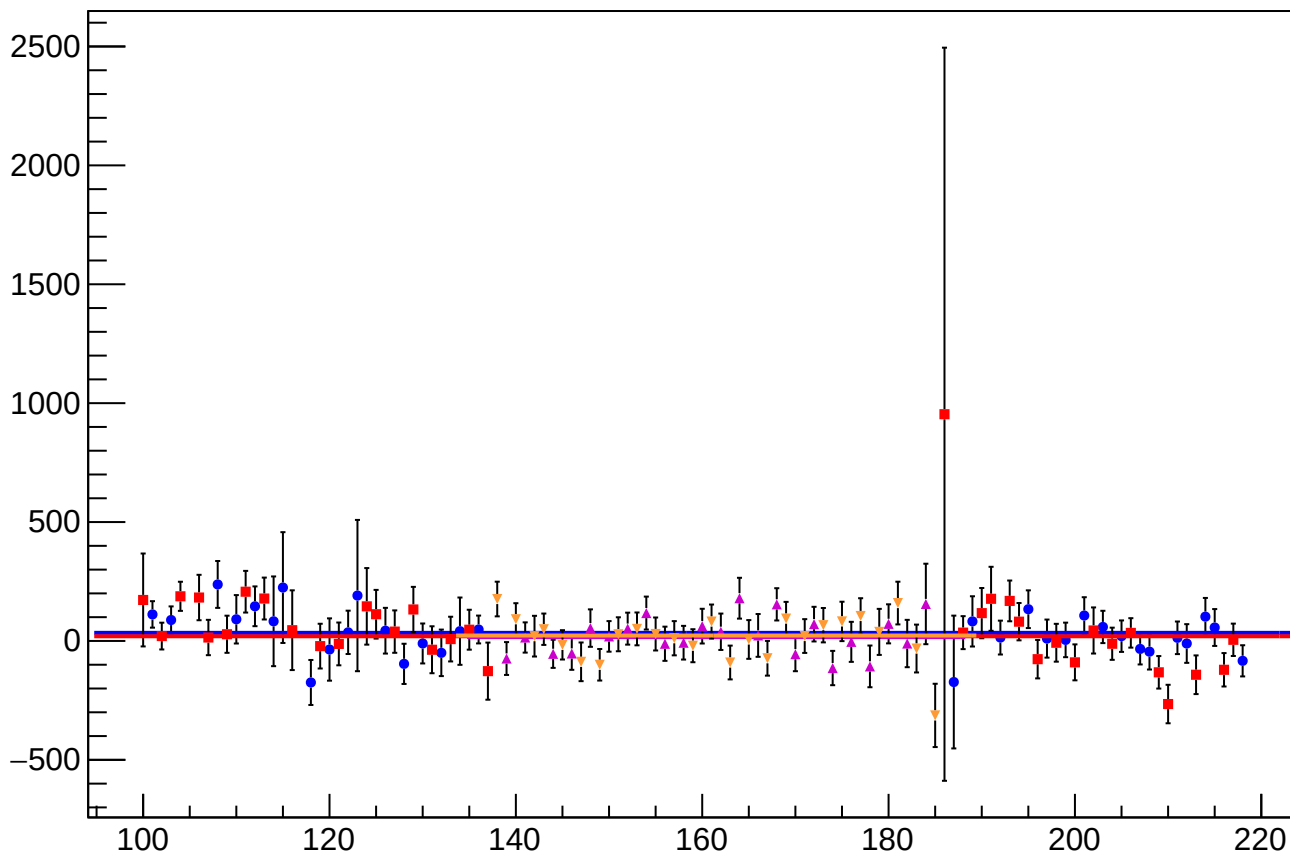
Right: 453.553+/-0.070 χ^2/NDF : 4487737.3/39

In: 294.833+/-0.041 χ^2/NDF : 5425208.3/42

Out: 290.521+/-0.040 χ^2/NDF : 6770844.7/44

All: 292.629+/-0.028 χ^2/NDF : 12201817.3/87

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 34.116 $\pm$ 14.275 χ^2 /NDF: 29.2/32

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 19.656 $\pm$ 14.070 χ^2 /NDF: 59.6/35

Left In: 16.198 $\pm$ 15.531 χ^2 /NDF:23.3/22

Left: 19.658 $\pm$ 10.777 χ^2 /NDF: 52.4/47

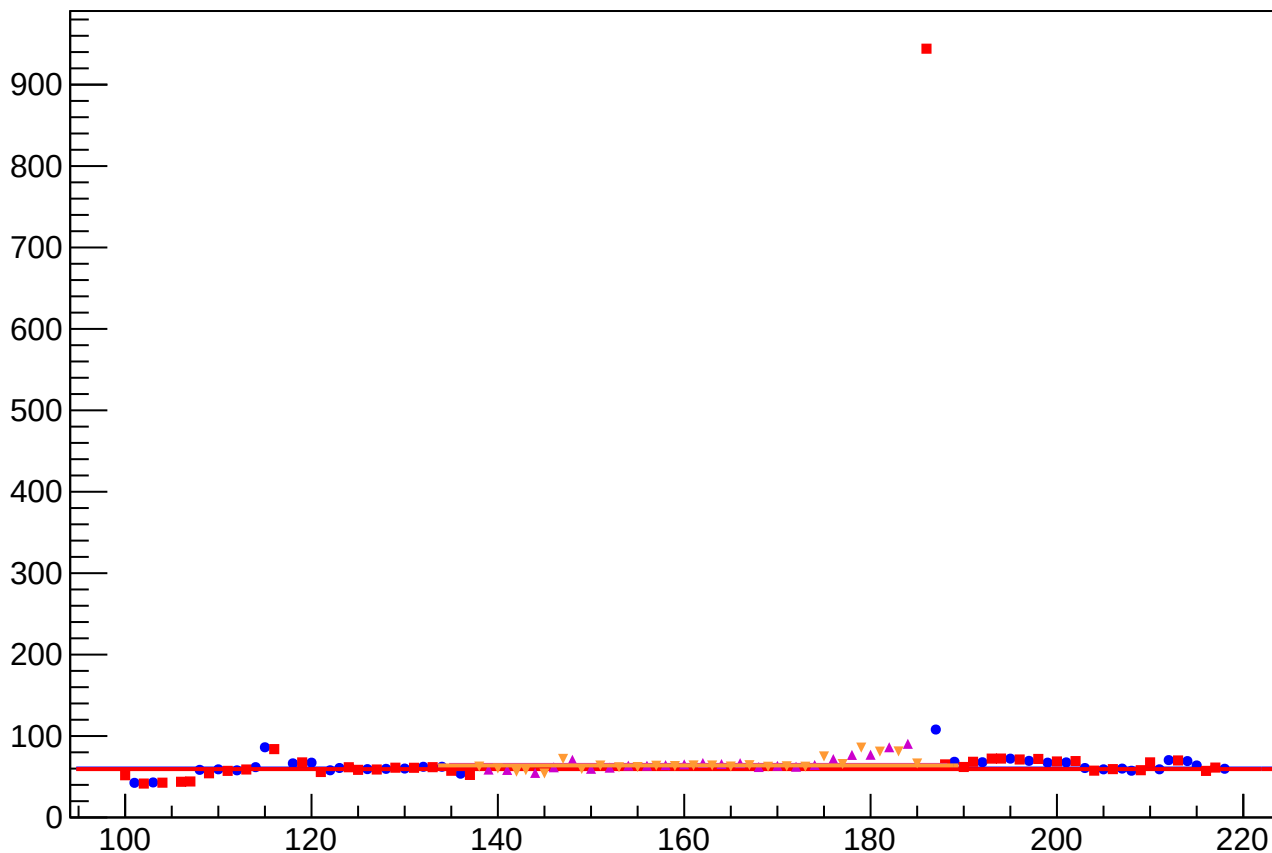
Right: 26.782 $\pm$ 10.021 χ^2 /NDF: 89.3/68

In: 25.911 $\pm$ 10.510 χ^2 /NDF:53.2/55

Out: 21.164 $\pm$ 10.252 χ^2 /NDF:88.7/60

All: 23.478 $\pm$ 7.339 χ^2 /NDF: 142.0/116

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 60.086 $\pm$ 0.010 χ^2 /NDF: 722825.1/32

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 59.385 $\pm$ 0.010 χ^2 /NDF: 1556395.6/35

Left In: 64.511 $\pm$ 0.011 χ^2 /NDF: 370515.2/22

Left: 64.204 $\pm$ 0.008 χ^2 /NDF: 767426.6/47

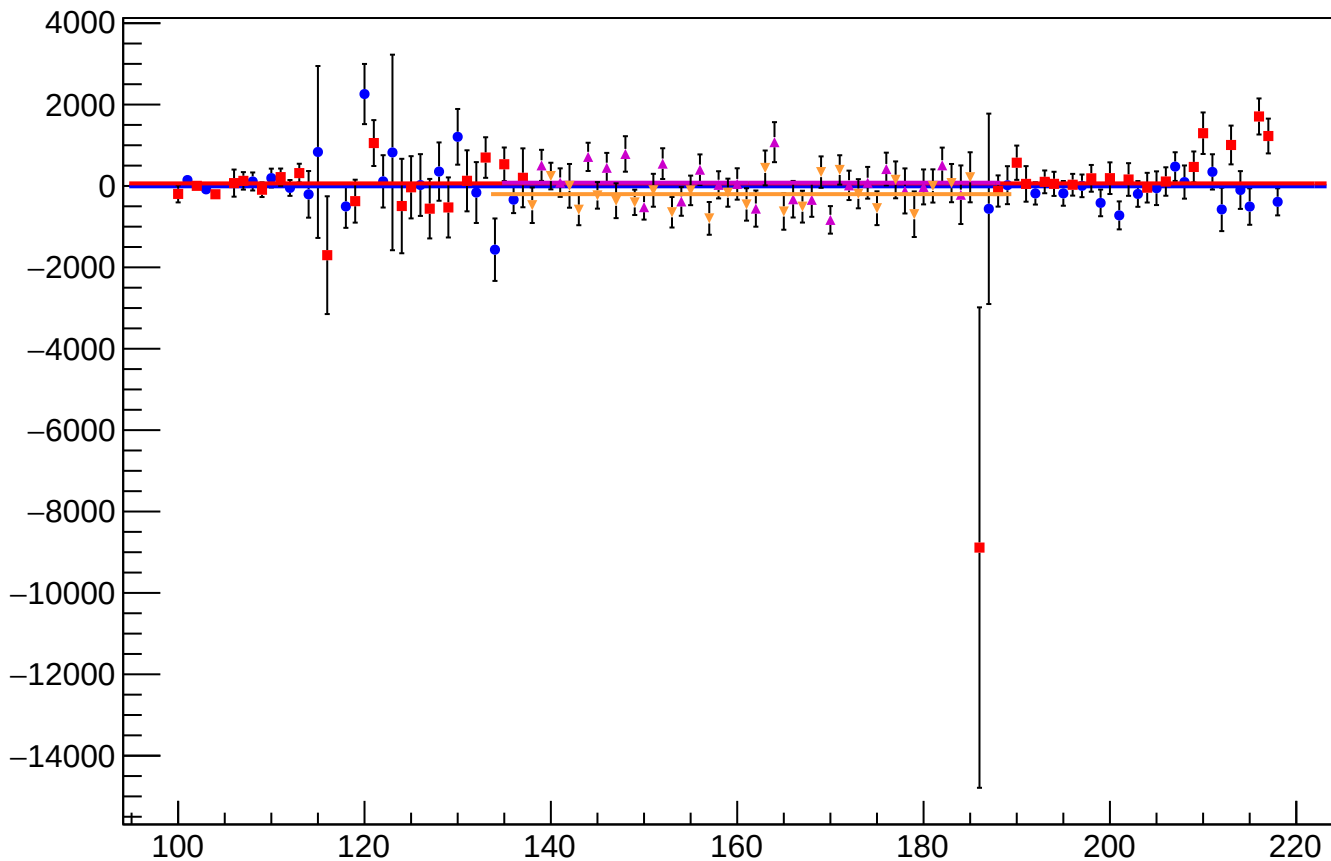
Right: 59.731 $\pm$ 0.007 χ^2 /NDF: 2281664.2/68

In: 62.112 $\pm$ 0.007 χ^2 /NDF: 1181339.1/55

Out: 61.512 $\pm$ 0.007 χ^2 /NDF: 2049256.3/60

All: 61.805 $\pm$ 0.005 χ^2 /NDF: 3233933.3/116

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: -8.705 ± 45.029 $\chi^2/\text{NDF}: 38.0/32$

Left Out: -201.082 ± 79.549 $\chi^2/\text{NDF}: 19.7/24$

Right Out: 63.113 ± 46.053 $\chi^2/\text{NDF}: 57.8/35$

Left In: 79.985 ± 81.781 $\chi^2/\text{NDF}: 33.4/22$

Left: -64.438 ± 57.022 $\chi^2/\text{NDF}: 59.1/47$

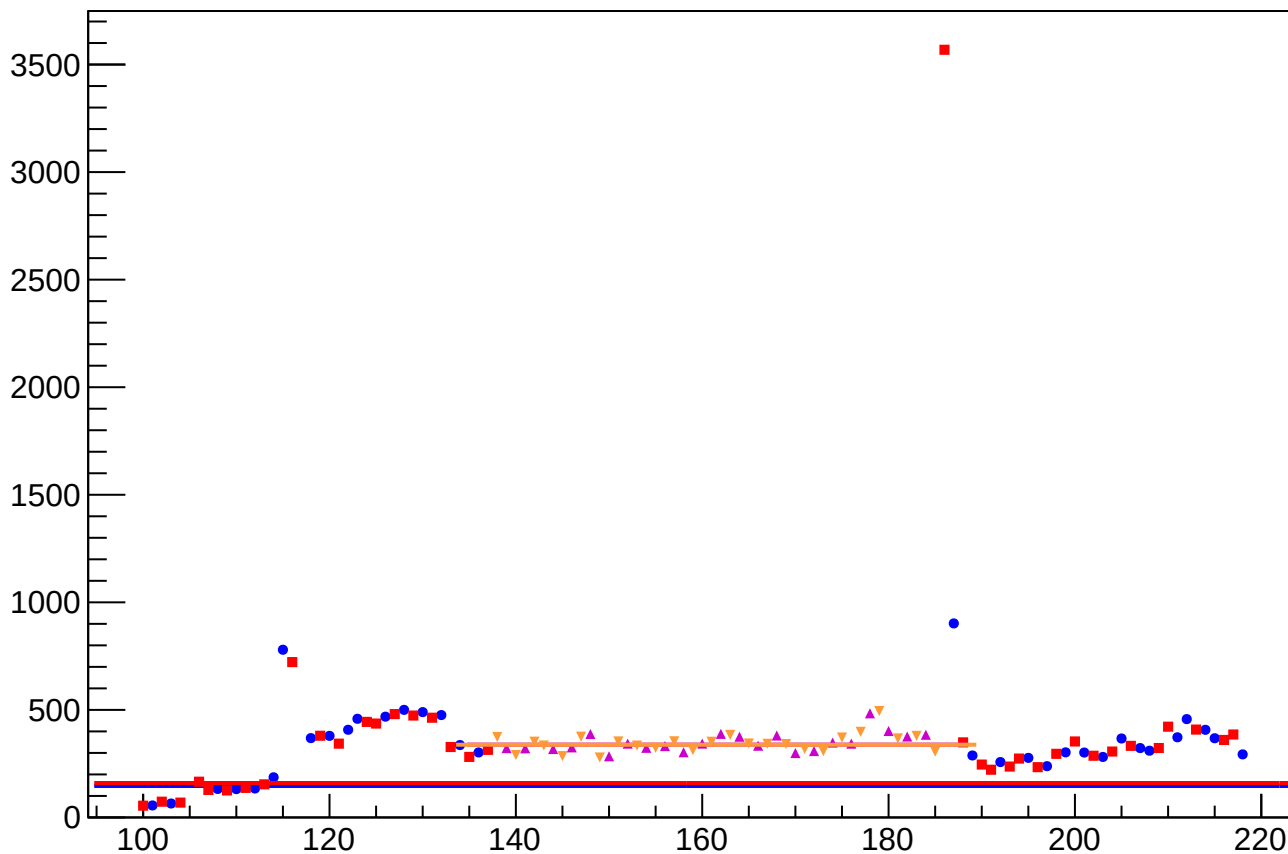
Right: 26.397 ± 32.196 $\chi^2/\text{NDF}: 97.1/68$

In: 11.927 ± 39.445 $\chi^2/\text{NDF}: 72.3/55$

Out: -3.207 ± 39.856 $\chi^2/\text{NDF}: 85.8/60$

All: 4.439 ± 28.036 $\chi^2/\text{NDF}: 158.2/116$

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 146.408+/-0.032 χ^2/NDF : 14307841.9/32

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 160.198+/-0.033 χ^2/NDF : 12726012.9/35

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

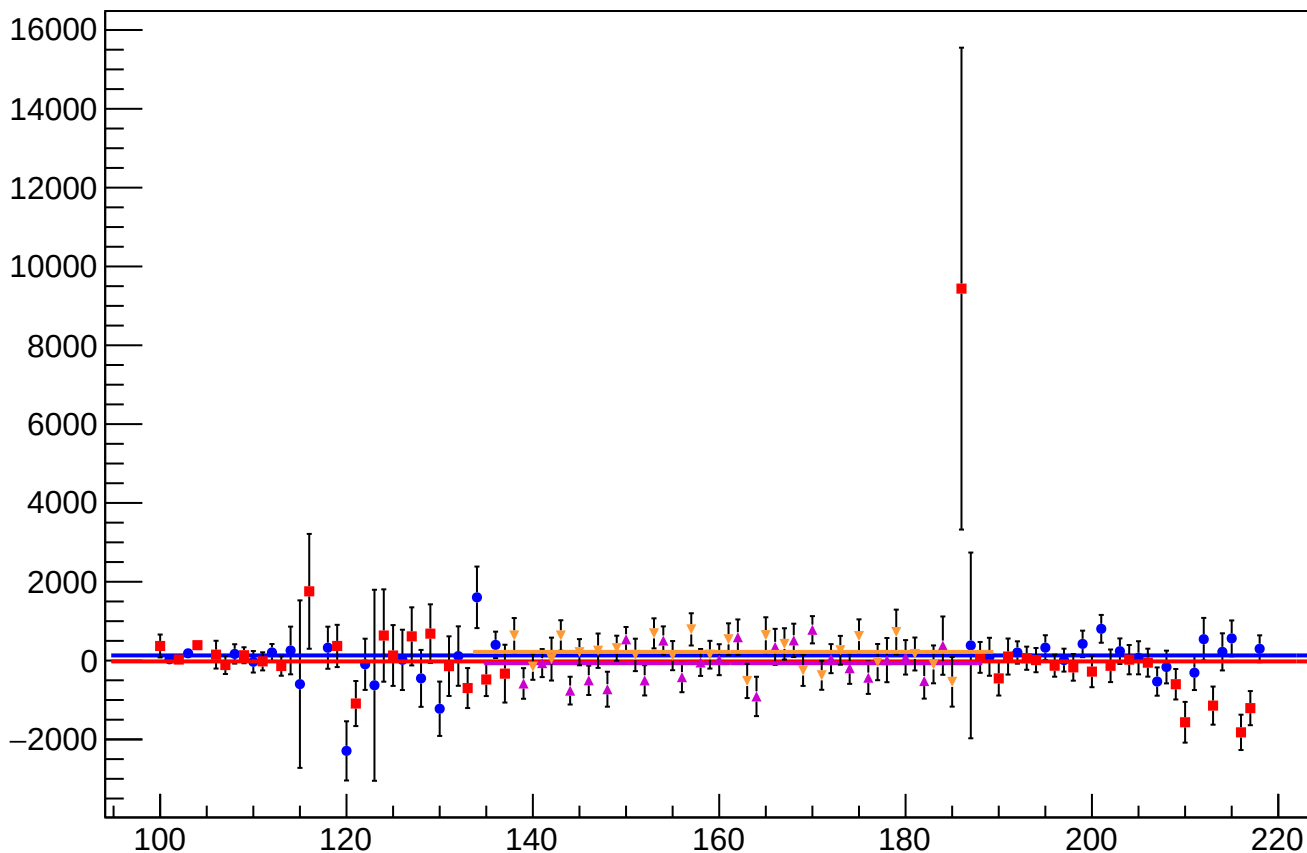
Right: 153.148+/-0.023 χ^2/NDF : 27125537.8/68

In: 191.111+/-0.028 χ^2/NDF : 23217976.0/55

Out: 204.864+/-0.028 χ^2/NDF : 20718999.3/60

All: 197.916+/-0.020 χ^2/NDF : 44057276.3/11

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 130.967 $\pm$ 52.592 χ^2 /NDF: 33.1/32

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: -20.782 $\pm$ 51.132 χ^2 /NDF: 70.2/35

Left In: -65.510 $\pm$ 83.319 χ^2 /NDF:34.0/22

Left: 81.798 $\pm$ 58.085 χ^2 /NDF: 59.7/47

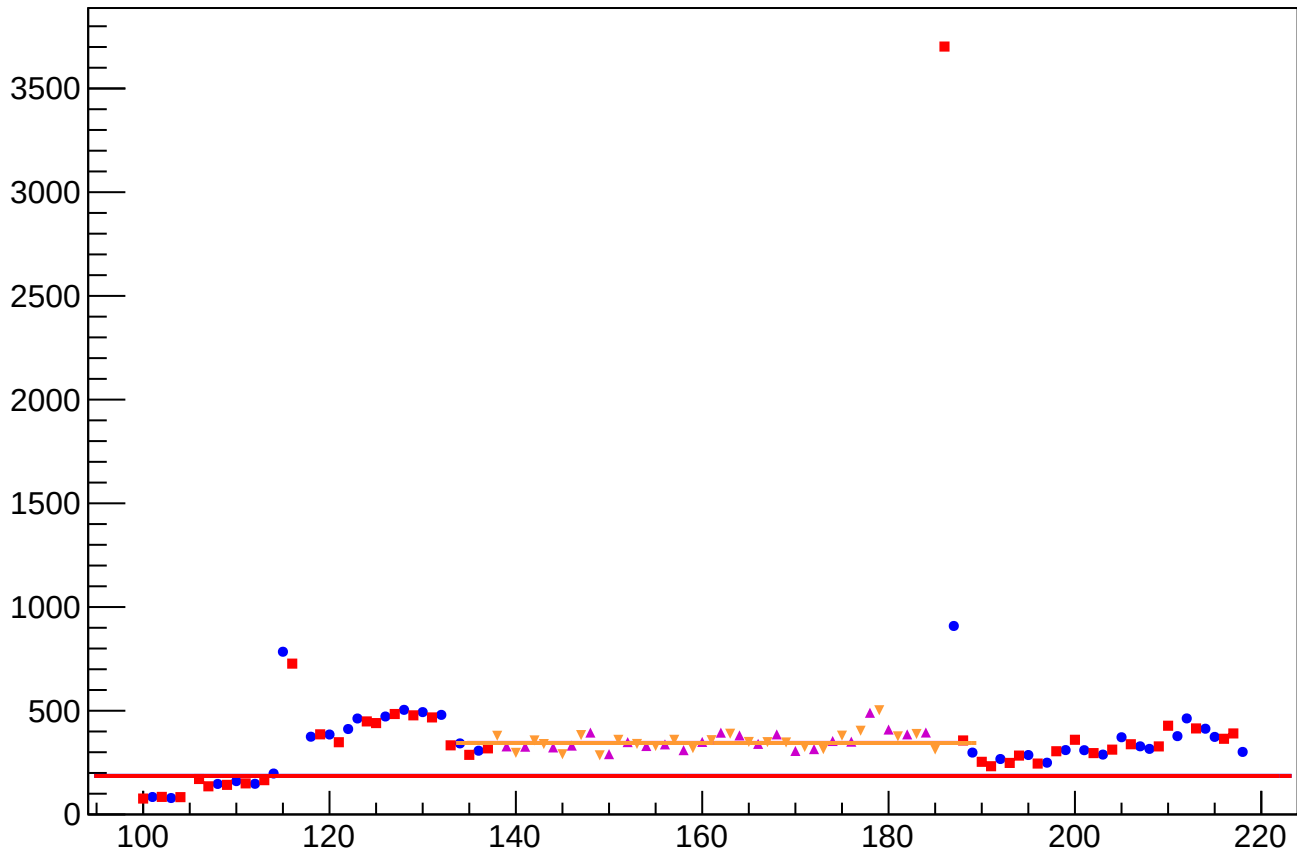
Right: 52.957 $\pm$ 36.661 χ^2 /NDF: 107.5/68

In: 74.988 $\pm$ 44.473 χ^2 /NDF:71.0/55

Out: 48.114 $\pm$ 43.241 χ^2 /NDF:96.3/60

All: 61.173 $\pm$ 31.002 χ^2 /NDF: 167.4/116

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 186.203+/-0.037 χ^2/NDF : 10696199.3/32

Left Out: 344.506+/-0.057 χ^2/NDF :488323.4/24

Right Out: 185.595+/-0.036 χ^2/NDF : 10626877.1/35

Left In: 345.039+/-0.059 χ^2/NDF :427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

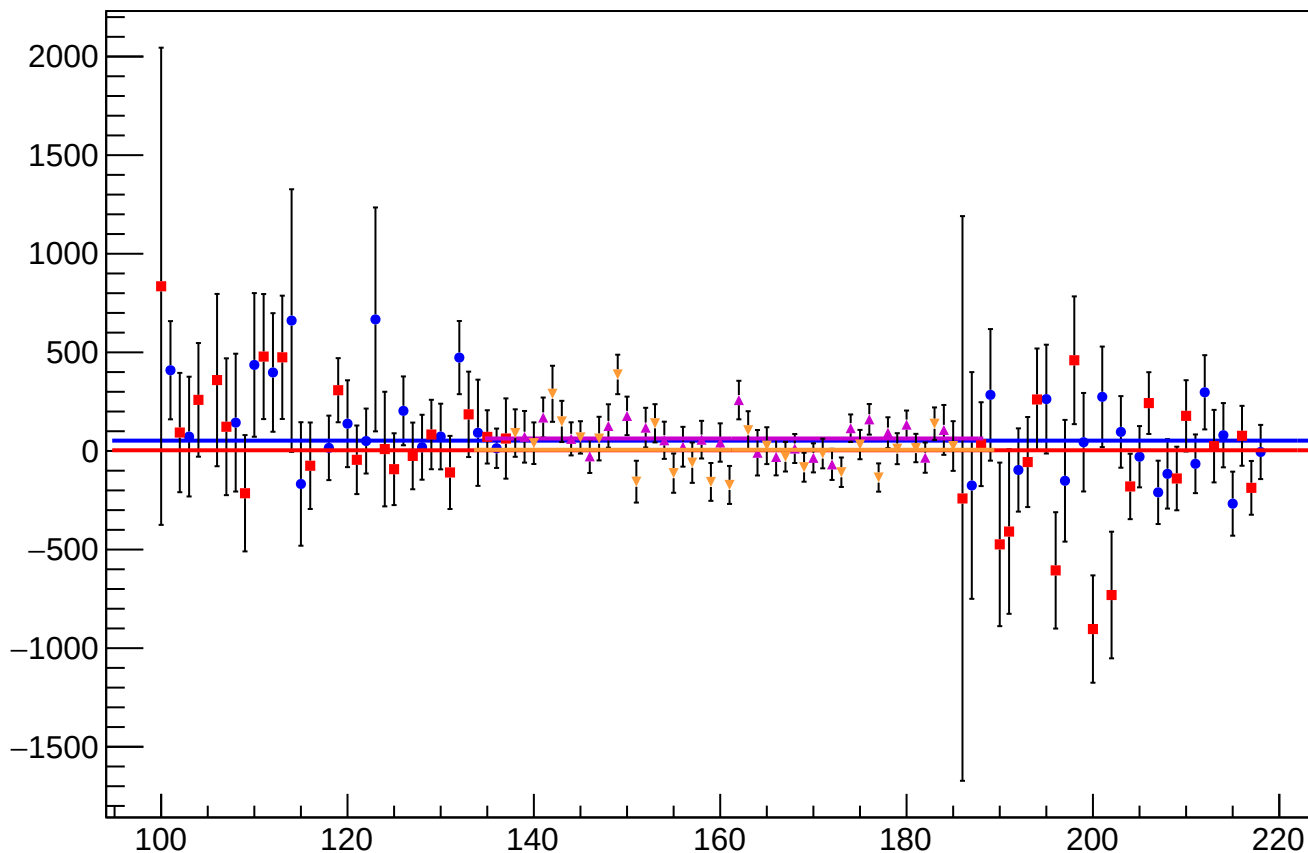
Right: 185.890+/-0.026 χ^2/NDF : 21323213.8/68

In: 231.457+/-0.031 χ^2/NDF :16321171.7/55

Out: 230.861+/-0.031 χ^2/NDF :16617789.3/60

All: 231.151+/-0.022 χ^2/NDF : 32939146.0/11

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 52.385+/-34.354 χ^2/NDF : 26.6/32

Left Out: 6.020+/-17.910 χ^2/NDF :46.0/24

Right Out: 3.475+/-35.700 χ^2/NDF : 46.3/35

Left In: 63.279+/-18.447 χ^2/NDF :19.8/22

Left: 33.804+/-12.850 χ^2/NDF : 70.8/47

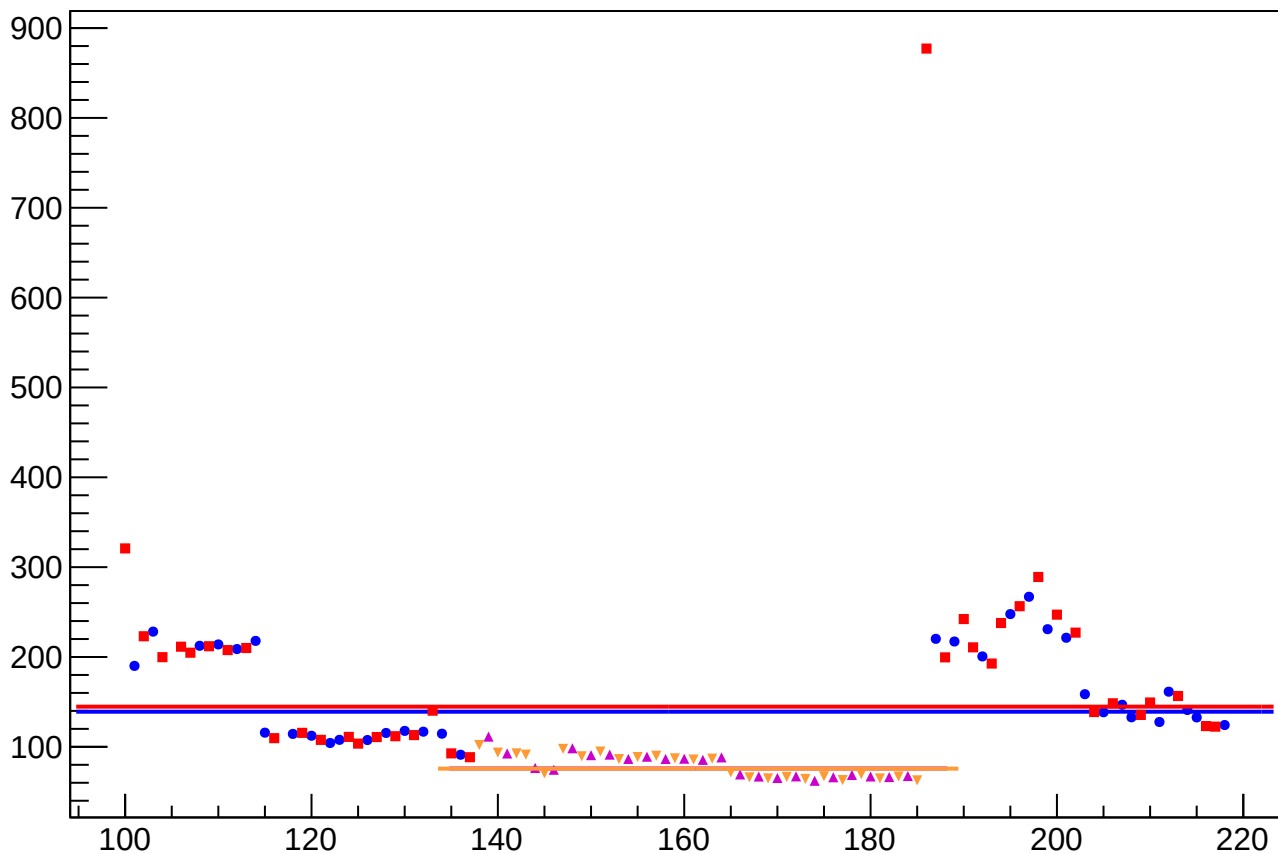
Right: 28.870+/-24.754 χ^2/NDF : 73.9/68

In: 60.841+/-16.252 χ^2/NDF :46.5/55

Out: 5.508+/-16.008 χ^2/NDF :92.3/60

All: 32.757+/-11.405 χ^2/NDF : 144.7/116

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 139.110 $\pm$ 0.024 χ^2 /NDF: 2939937.9/32

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 144.731 $\pm$ 0.025 χ^2 /NDF: 3997685.4/35

Left In: 75.909 $\pm$ 0.013 χ^2 /NDF:831366.4/22

Left: 75.824 $\pm$ 0.009 χ^2 /NDF: 1769272.3/47

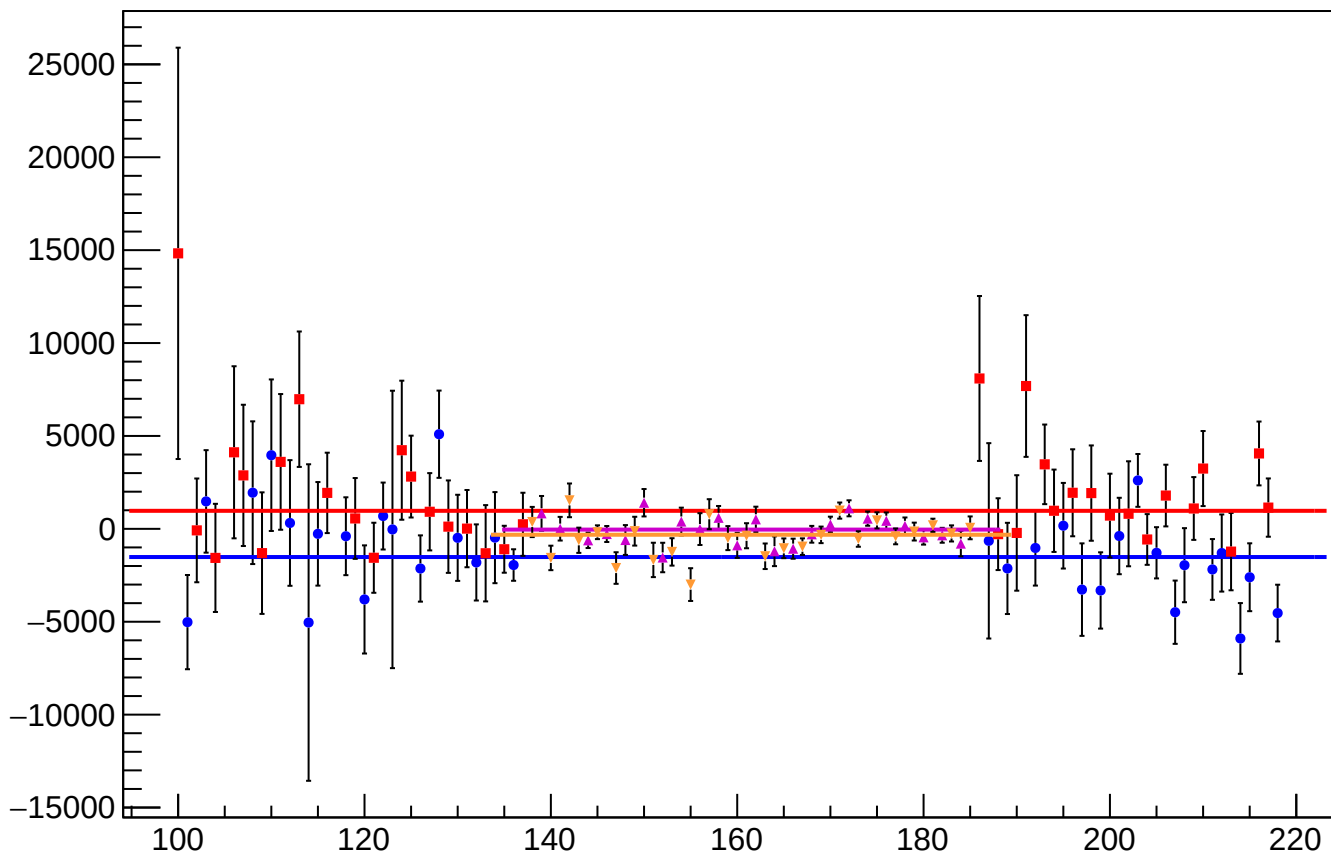
Right: 141.813 $\pm$ 0.018 χ^2 /NDF: 6963360.0/68

In: 90.053 $\pm$ 0.011 χ^2 /NDF:9025340.6/55

Out: 89.614 $\pm$ 0.011 χ^2 /NDF:10902277.9/60

All: 89.830 $\pm$ 0.008 χ^2 /NDF: 19928359.7/116

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1517.230 $\pm$ 347.273 χ^2 /NDF: 41.0/32

Left Out: -318.064 $\pm$ 108.014 χ^2 /NDF: 50.0/24

Right Out: 970.100 $\pm$ 367.988 χ^2 /NDF: 29.5/35

Left In: -40.473 $\pm$ 110.252 χ^2 /NDF: 34.7/22

Left: -182.115 $\pm$ 77.156 χ^2 /NDF: 88.0/47

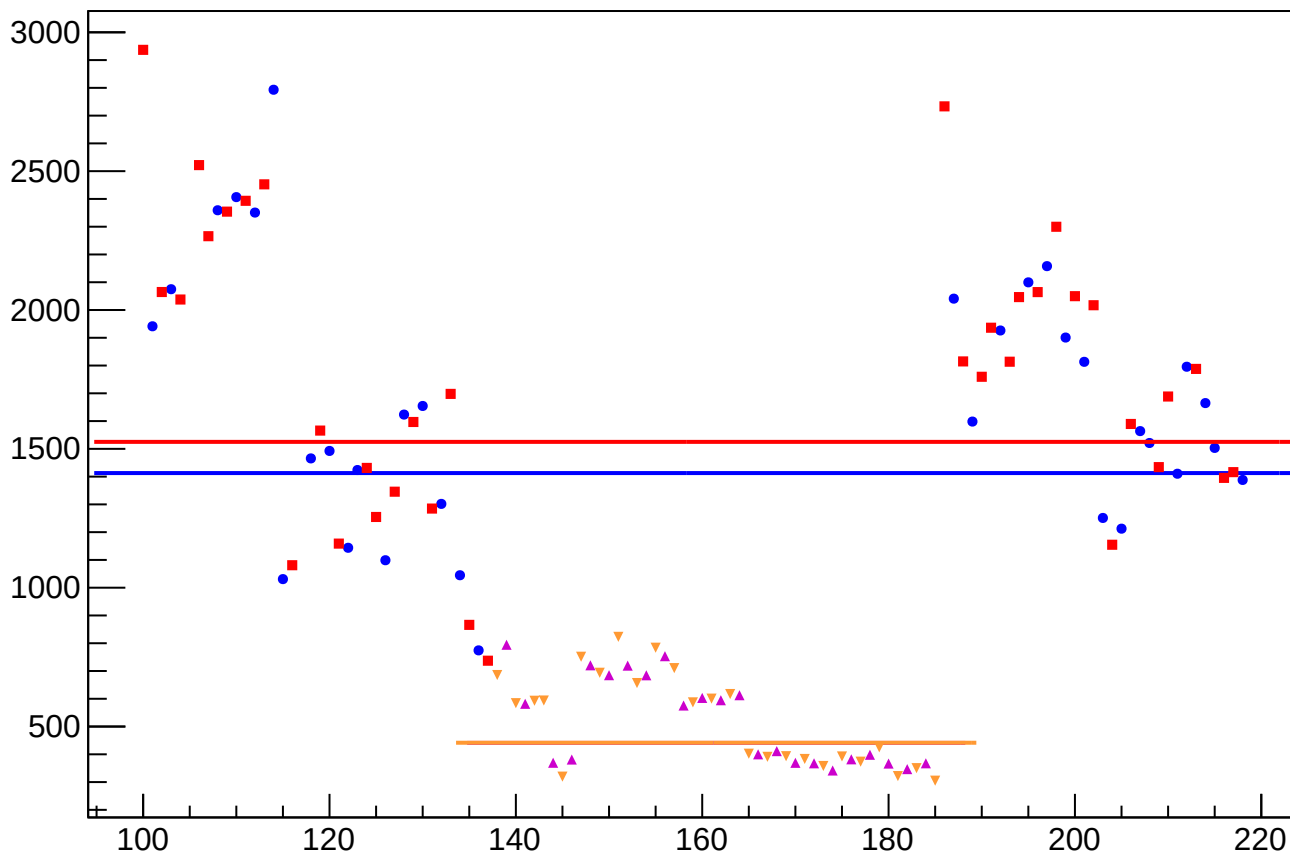
Right: -345.541 $\pm$ 252.565 χ^2 /NDF: 94.7/68

In: -175.691 $\pm$ 105.084 χ^2 /NDF: 92.2/55

Out: -215.884 $\pm$ 103.641 χ^2 /NDF: 90.8/60

All: -196.065 $\pm$ 73.790 χ^2 /NDF: 183.0/116

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1412.800+/-0.246 χ^2/NDF : 2930670.9/32

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1525.131+/-0.260 χ^2/NDF : 2982678.5/35

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

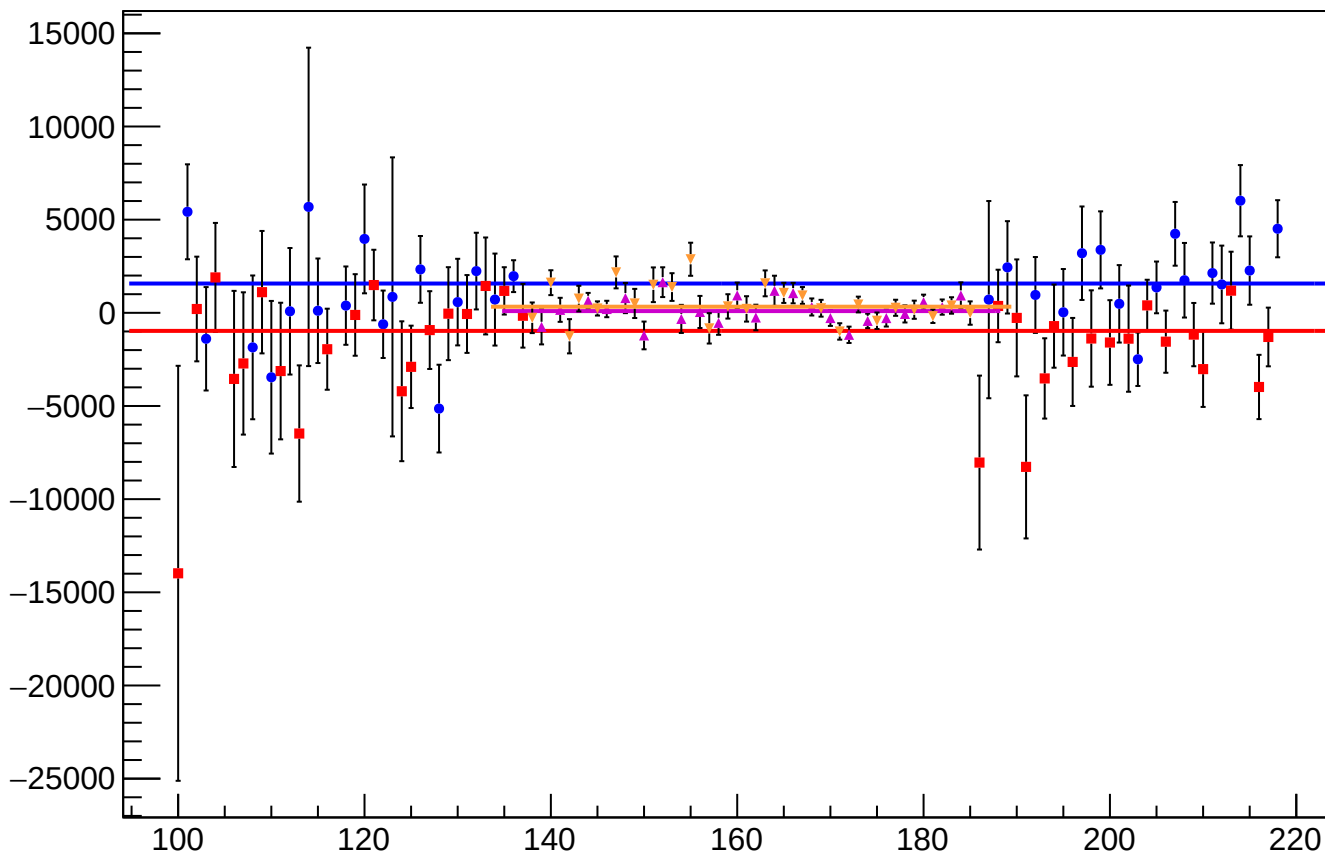
Right: 1465.715+/-0.179 χ^2/NDF : 6011925.2/68

In: 529.990+/-0.074 χ^2/NDF : 19755163.3/55

Out: 527.626+/-0.073 χ^2/NDF : 22113752.7/60

All: 528.792+/-0.052 χ^2/NDF : 41869429.0/11

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1572.042 $\pm$ 349.343 χ^2 /NDF: 39.8/32

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF:47.7/24

Right Out: -969.512 $\pm$ 370.178 χ^2 /NDF: 28.6/35

Left In: 93.310 $\pm$ 111.960 χ^2 /NDF:33.3/22

Left: 213.387 $\pm$ 78.345 χ^2 /NDF: 83.3/47

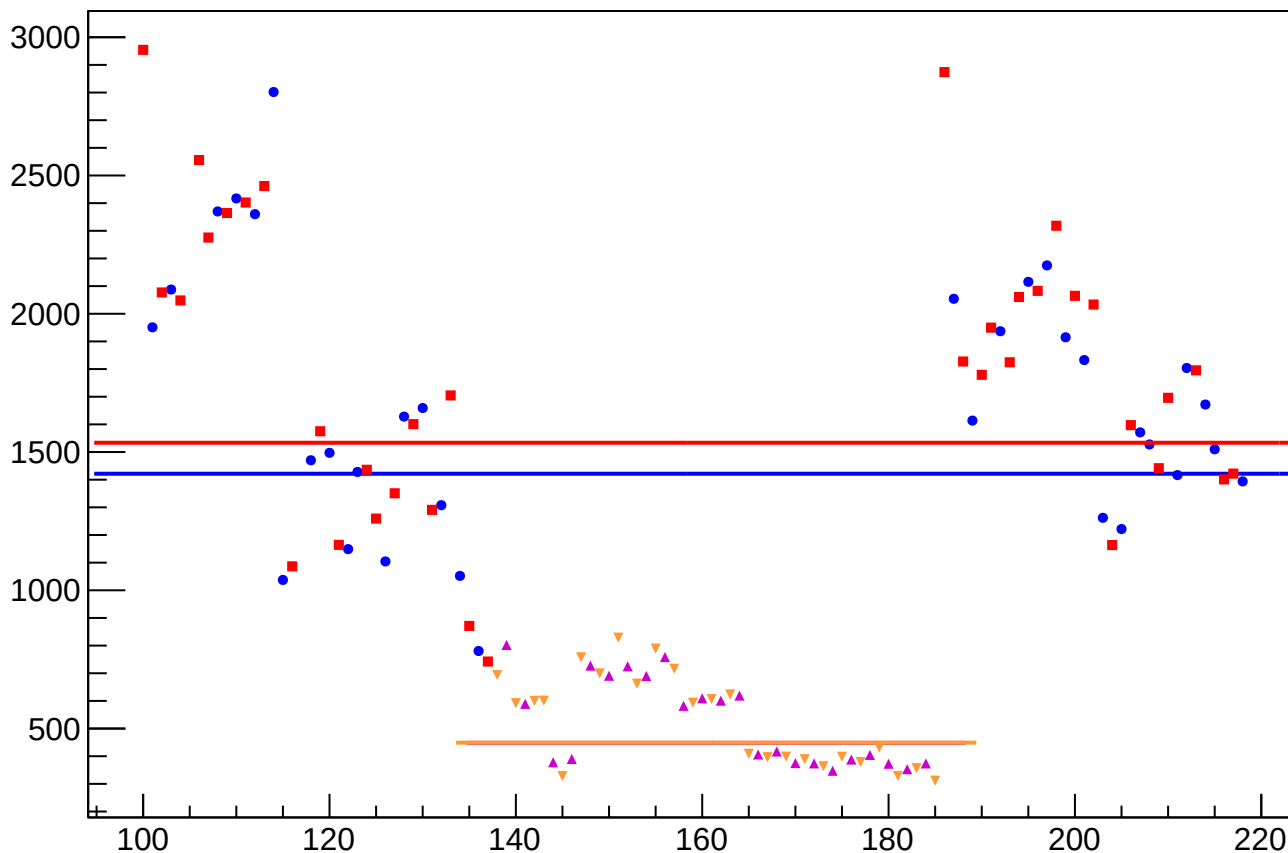
Right: 374.799 $\pm$ 254.069 χ^2 /NDF: 93.3/68

In: 231.046 $\pm$ 106.618 χ^2 /NDF:89.4/55

Out: 223.858 $\pm$ 105.151 χ^2 /NDF:87.6/60

All: 227.402 $\pm$ 74.866 χ^2 /NDF: 177.0/116

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1421.494 $\pm$ 0.247 χ^2/NDF : 2919211.9/32

Left Out: 448.669 $\pm$ 0.075 χ^2/NDF : 5627893.2/47

Right Out: 1474.301 $\pm$ 0.180 χ^2/NDF : 6018842.0/68

In: 538.954 $\pm$ 0.075 χ^2/NDF : 19531852.7/55

Left: 448.669 $\pm$ 0.055 χ^2/NDF : 5627893.2/47

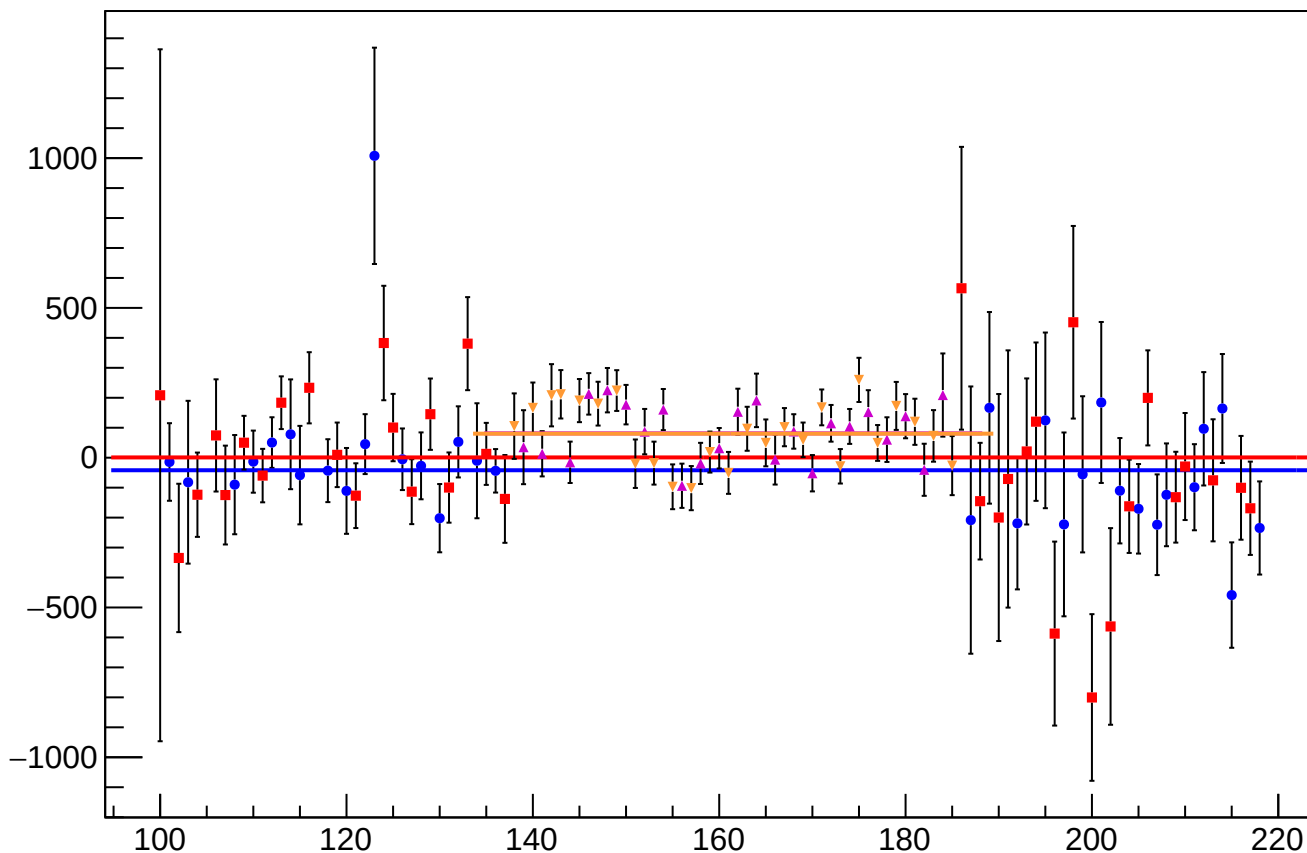
Right: 1474.301 $\pm$ 0.180 χ^2/NDF : 6018842.0/68

In: 538.954 $\pm$ 0.075 χ^2/NDF : 19531852.7/55

Out: 536.528 $\pm$ 0.074 χ^2/NDF : 21876264.3/60

All: 537.724 $\pm$ 0.053 χ^2/NDF : 41408642.1/11

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -41.915 ± 24.924 χ^2/NDF : 28.1/32

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: 0.879 ± 24.684 χ^2/NDF : 53.2/35

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

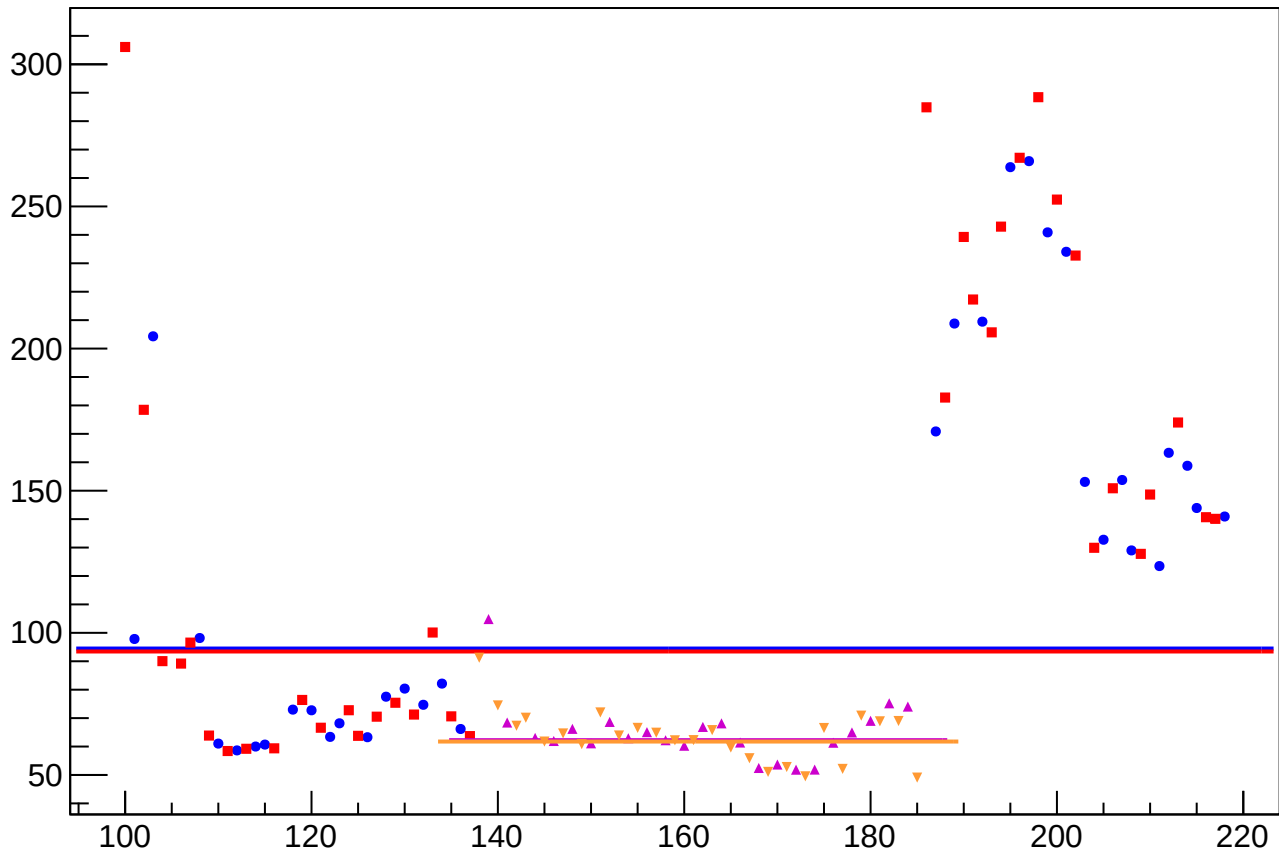
Right: -20.310 ± 17.538 χ^2/NDF : 82.7/68

In: 48.095 ± 12.918 χ^2/NDF : 81.2/55

Out: 59.636 ± 12.561 χ^2/NDF : 109.4/60

All: 54.027 ± 9.006 χ^2/NDF : 191.0/116

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 94.478 $\pm$ 0.018 χ^2 /NDF: 6952301.3/32

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 93.439 $\pm$ 0.017 χ^2 /NDF: 7951195.3/35

Left In: 62.250 $\pm$ 0.011 χ^2 /NDF: 591085.1/22

Left: 61.997 $\pm$ 0.007 χ^2 /NDF: 1237703.8/47

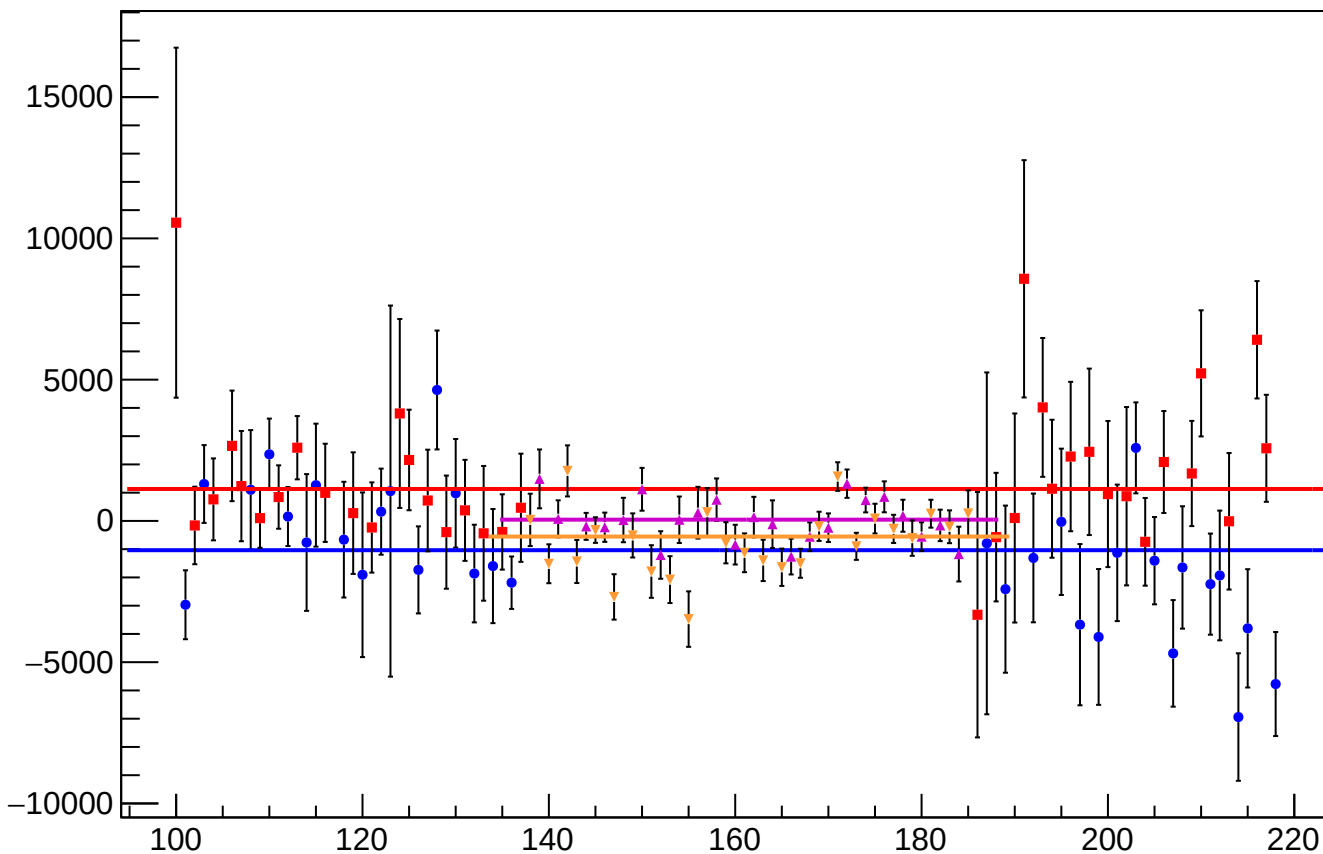
Right: 93.954 $\pm$ 0.012 χ^2 /NDF: 14905252.3/68

In: 70.908 $\pm$ 0.009 χ^2 /NDF: 9989076.3/55

Out: 69.965 $\pm$ 0.009 χ^2 /NDF: 11037672.4/60

All: 70.423 $\pm$ 0.006 χ^2 /NDF: 21032224.7/116

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -1036.492 ± 311.754 $\chi^2/\text{NDF}: 55.1/32$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 1131.021 ± 310.176 $\chi^2/\text{NDF}: 30.2/35$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

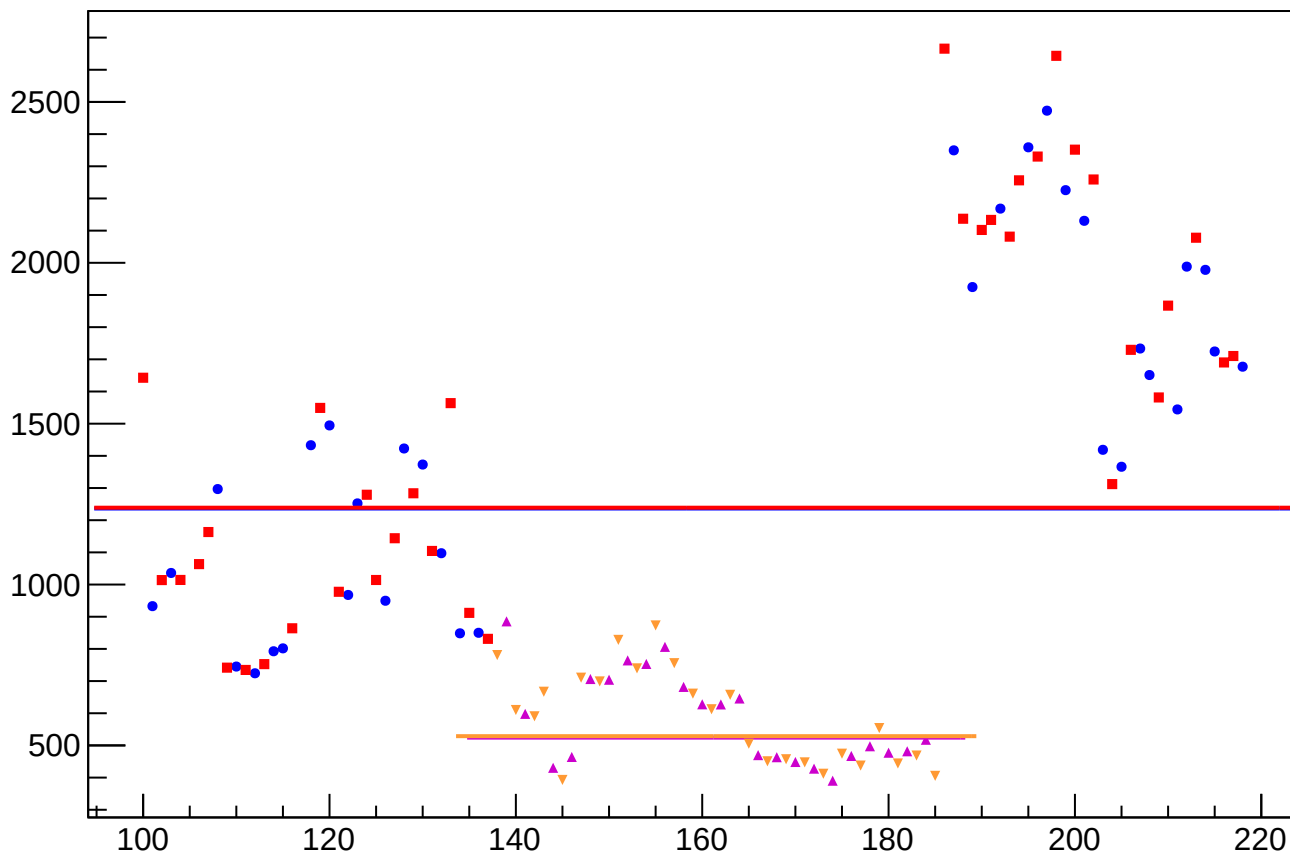
Right: 52.764 ± 219.883 $\chi^2/\text{NDF}: 109.6/68$

In: -113.661 ± 119.273 $\chi^2/\text{NDF}: 94.9/55$

Out: -310.858 ± 117.515 $\chi^2/\text{NDF}: 120.7/60$

All: -213.724 ± 83.710 $\chi^2/\text{NDF}: 217.1/116$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1236.360 $\pm$ 0.220 χ^2 /NDF: 4563399.9/32

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 1238.859 $\pm$ 0.219 χ^2 /NDF: 5367230.5/35

Left In: 524.268 $\pm$ 0.091 χ^2 /NDF:1716257.3/22

Left: 526.539 $\pm$ 0.064 χ^2 /NDF: 3701172.5/47

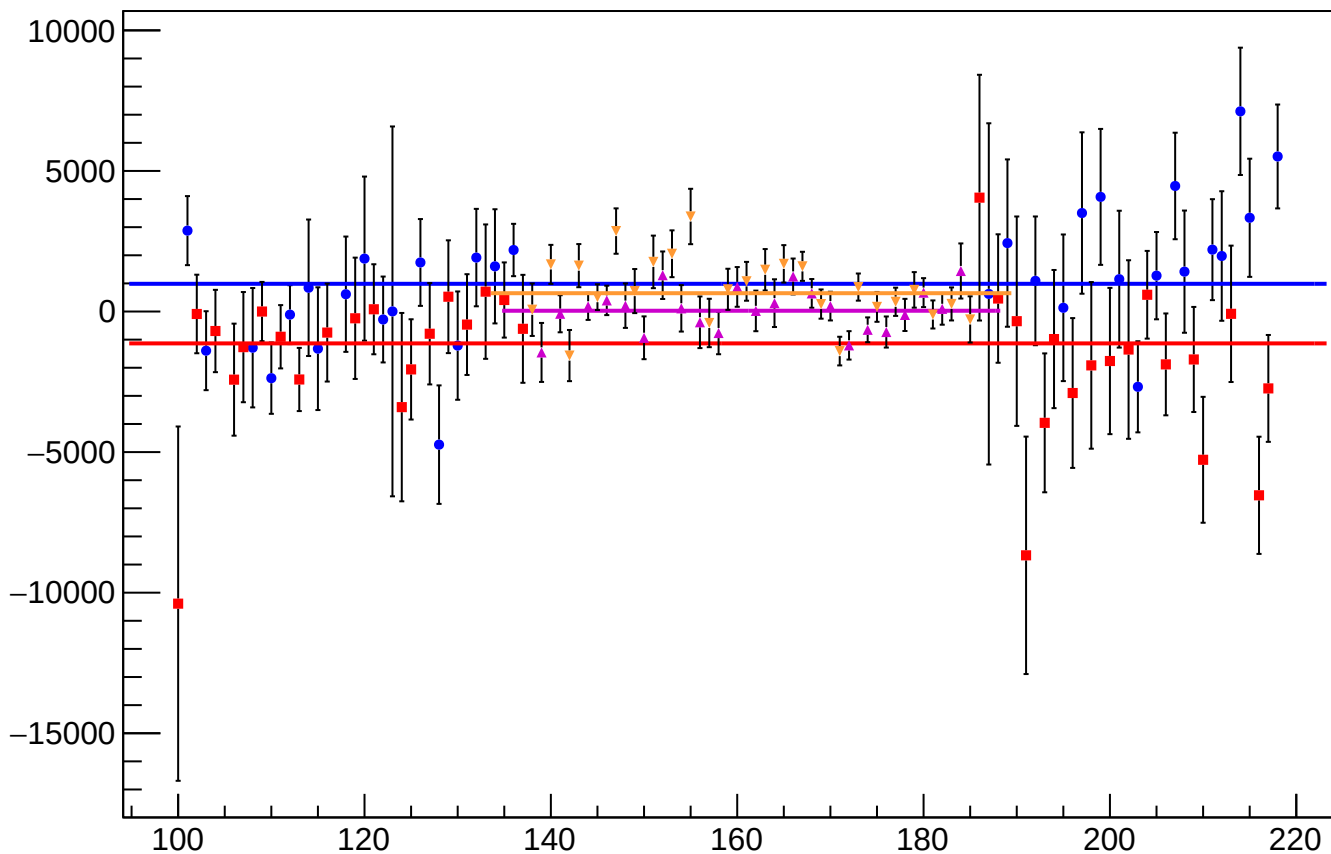
Right: 1237.616 $\pm$ 0.155 χ^2 /NDF: 9930695.1/68

In: 628.499 $\pm$ 0.084 χ^2 /NDF:15186975.4/55

Out: 630.666 $\pm$ 0.083 χ^2 /NDF:16329134.7/60

All: 629.599 $\pm$ 0.059 χ^2 /NDF: 31516445.1/117

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 985.833+/-313.191 χ^2/NDF : 54.0/32

Left Out: 651.560+/-127.961 χ^2/NDF : 61.1/24

Right Out: -1133.807+/-311.713 χ^2/NDF : 29.7/35

Left In: 27.483+/-130.127 χ^2/NDF : 28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

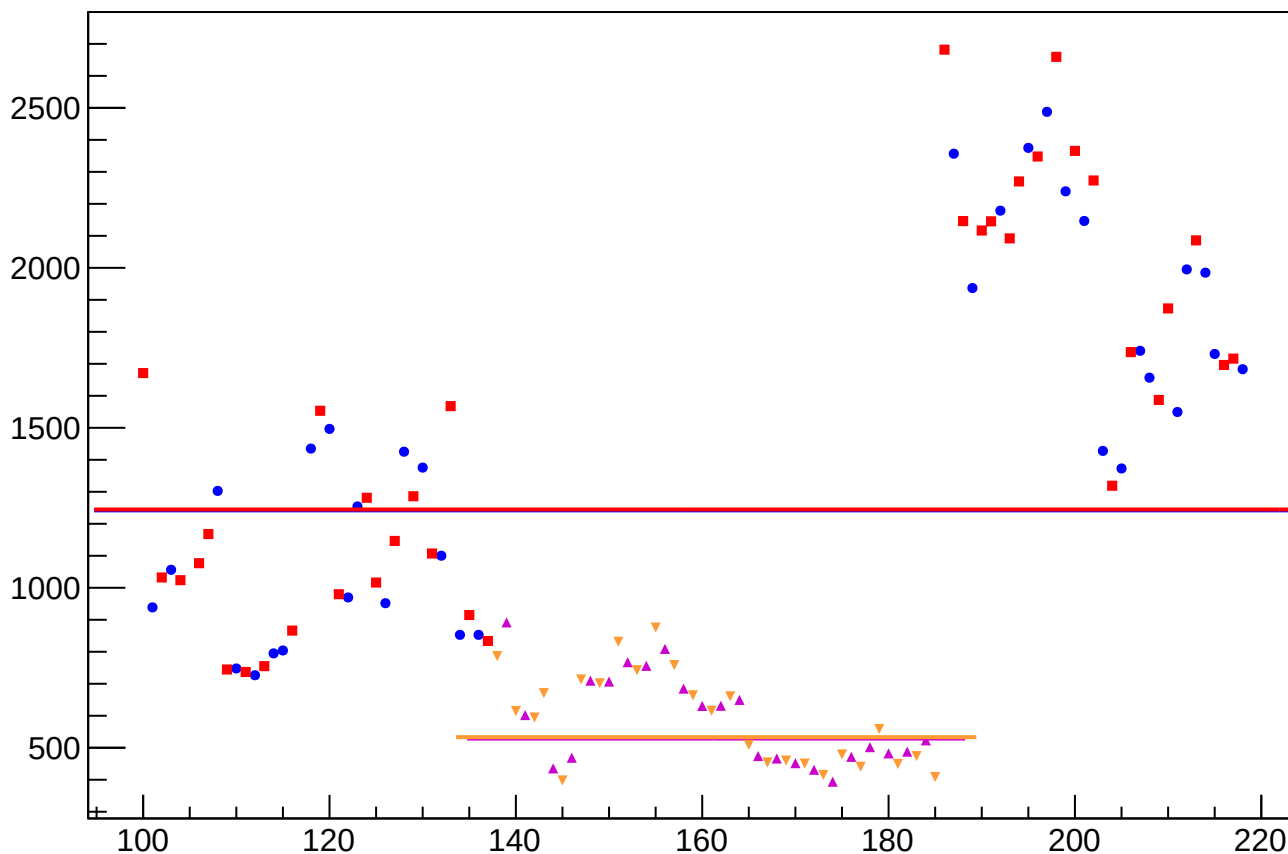
Right: -78.998+/-220.935 χ^2/NDF : 106.6/68

In: 168.568+/-120.167 χ^2/NDF : 90.4/55

Out: 394.083+/-118.375 χ^2/NDF : 118.8/60

All: 283.020+/-84.330 χ^2/NDF : 211.0/116

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1241.990 $\pm$ 0.221 χ^2 /NDF: 4567139.5/32

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF:1951536.4/24

Right Out: 1244.741 $\pm$ 0.220 χ^2 /NDF: 5373220.0/35

Left In: 528.694 $\pm$ 0.092 χ^2 /NDF:1688511.2/22

Left: 530.914 $\pm$ 0.065 χ^2 /NDF: 3641192.3/47

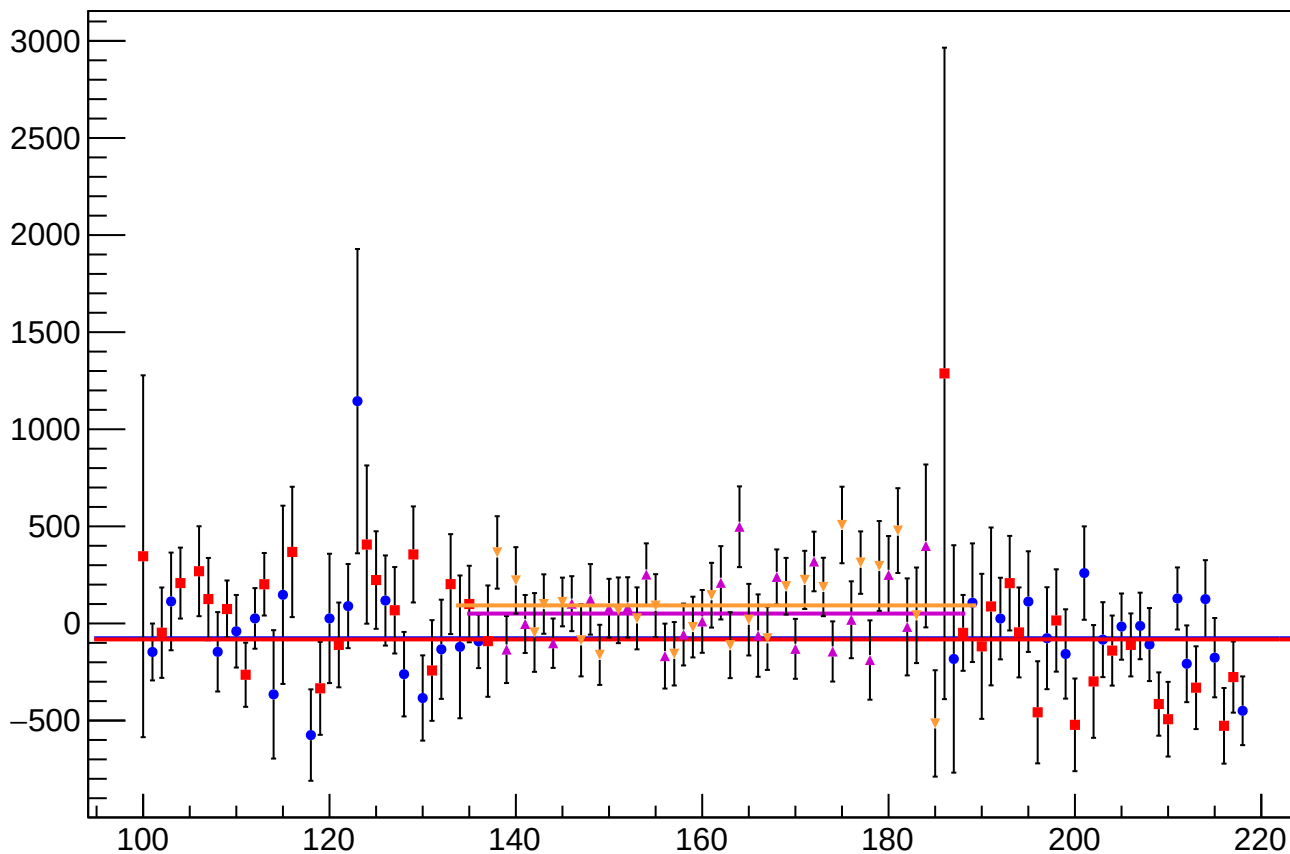
Right: 1243.372 $\pm$ 0.156 χ^2 /NDF: 9940437.0/68

In: 633.703 $\pm$ 0.085 χ^2 /NDF:15102549.2/55

Out: 635.695 $\pm$ 0.084 χ^2 /NDF:16246586.0/60

All: 634.714 $\pm$ 0.060 χ^2 /NDF: 31349414.3/11

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -76.358 ± 37.096 χ^2/NDF : 24.8/32

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: -82.237 ± 36.994 χ^2/NDF : 48.4/35

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

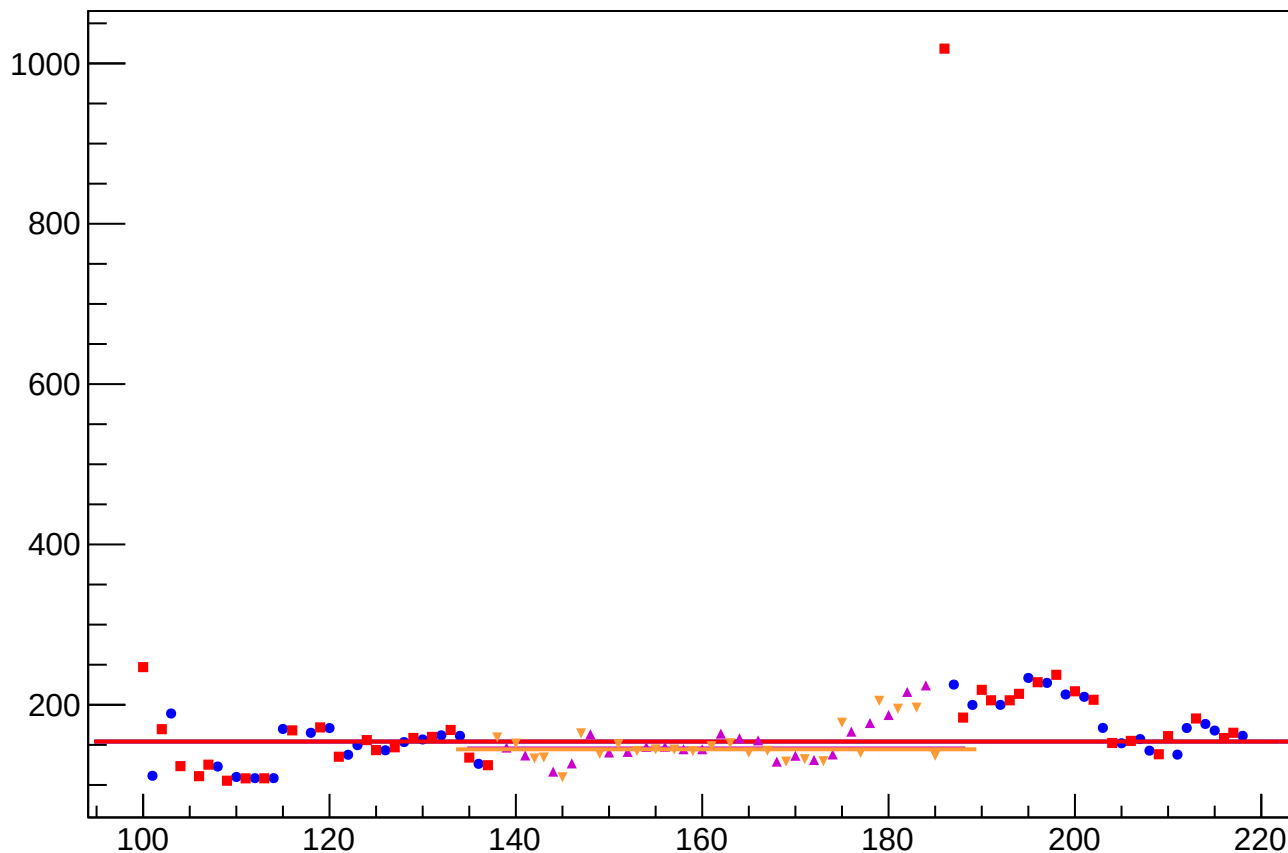
Right: -79.306 ± 26.195 χ^2/NDF : 73.1/68

In: -9.540 ± 25.565 χ^2/NDF : 54.4/55

Out: 12.619 ± 25.055 χ^2/NDF : 89.9/60

All: 1.763 ± 17.894 χ^2/NDF : 144.7/116

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 154.140 $\pm$ 0.026 χ^2 /NDF: 1533403.6/32

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 154.176 $\pm$ 0.026 χ^2 /NDF: 2331336.7/35

Left In: 145.535 $\pm$ 0.025 χ^2 /NDF: 643529.3/22

Left: 144.986 $\pm$ 0.017 χ^2 /NDF: 1314951.6/47

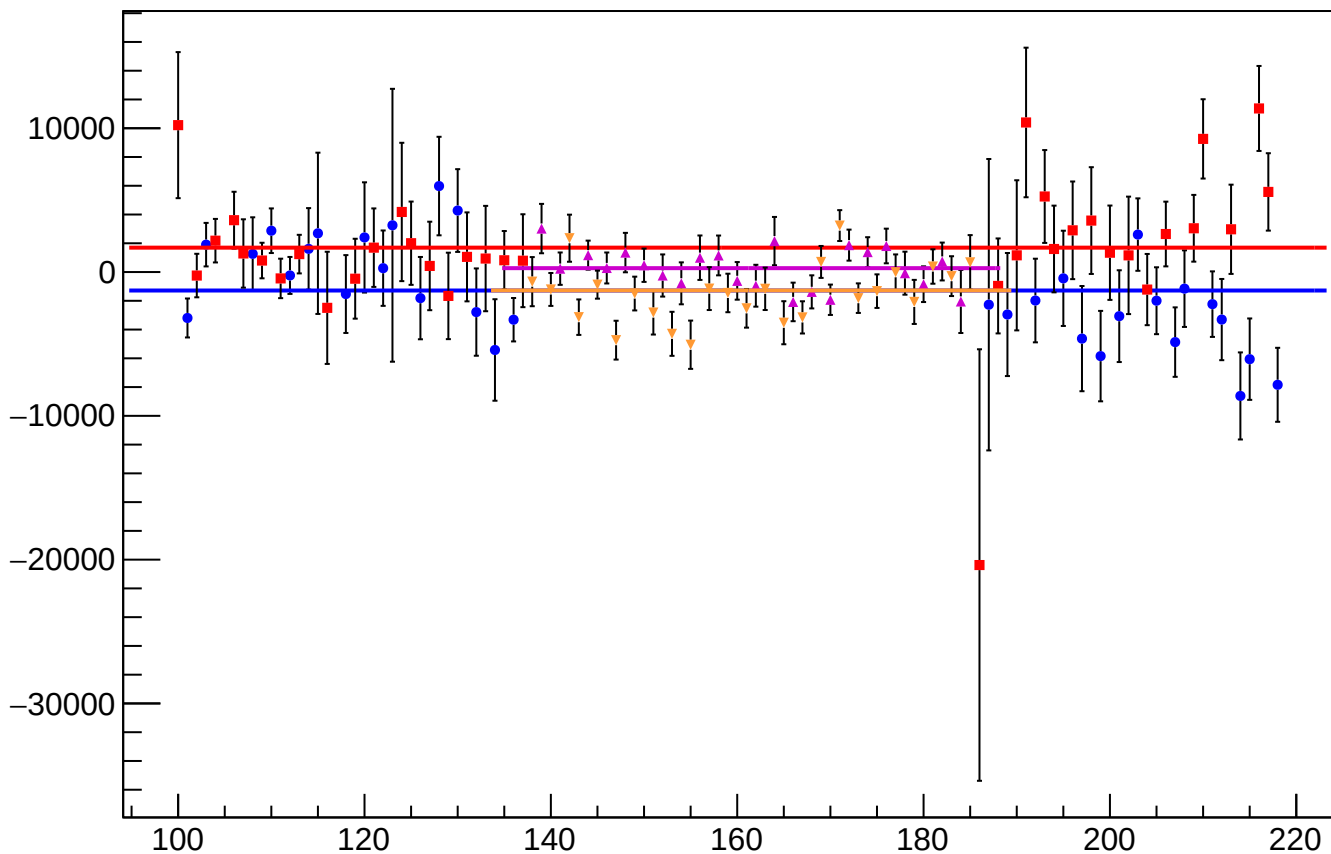
Right: 154.158 $\pm$ 0.019 χ^2 /NDF: 3864741.2/68

In: 149.622 $\pm$ 0.018 χ^2 /NDF: 2233445.7/55

Out: 148.925 $\pm$ 0.018 χ^2 /NDF: 3076266.7/60

All: 149.266 $\pm$ 0.013 χ^2 /NDF: 5310470.4/116

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -1284.459 ± 425.036 $\chi^2/\text{NDF}: 54.1/32$

Left Out: -1279.328 ± 259.299 $\chi^2/\text{NDF}: 55.9/24$

Right Out: 1696.070 ± 407.099 $\chi^2/\text{NDF}: 42.0/35$

Left In: 269.952 ± 266.245 $\chi^2/\text{NDF}: 24.3/22$

Left: -525.161 ± 185.759 $\chi^2/\text{NDF}: 97.6/47$

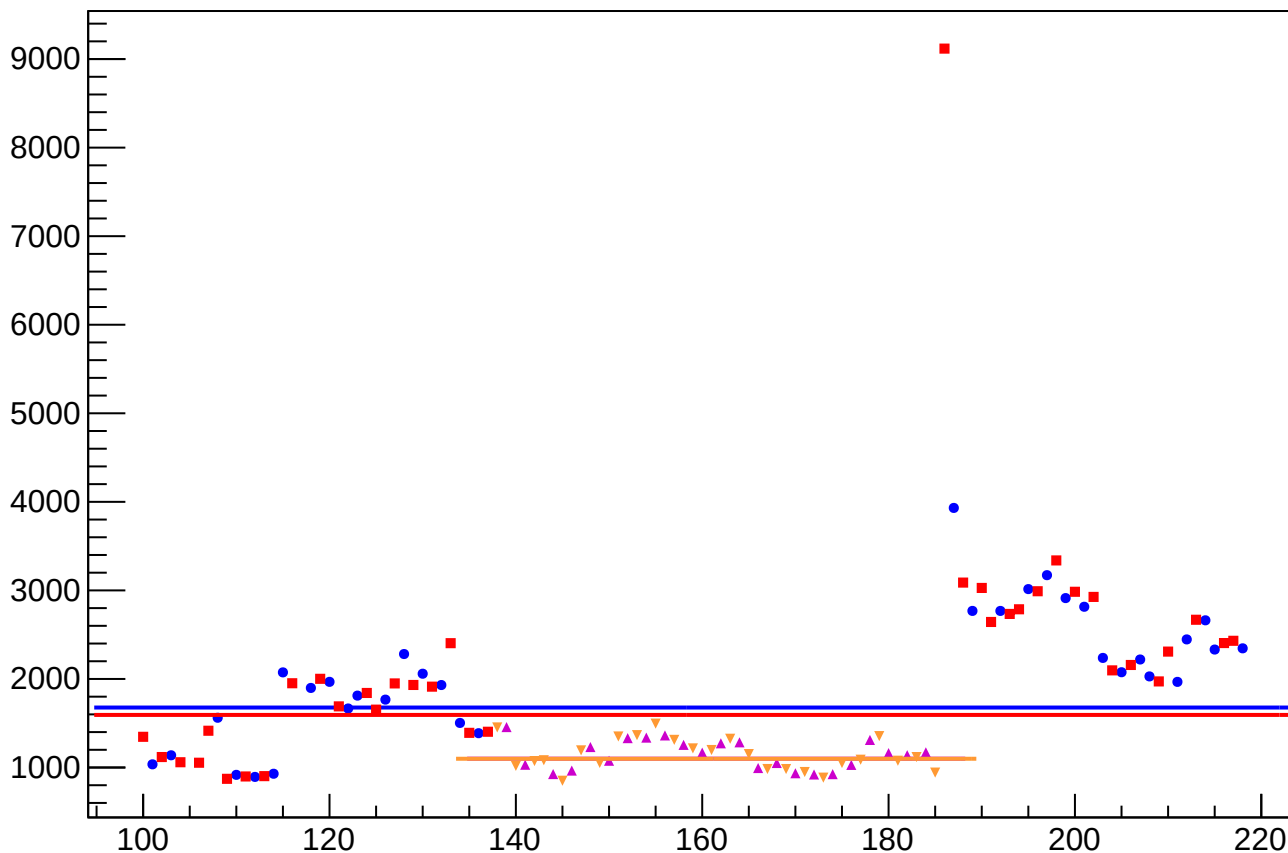
Right: 270.022 ± 293.999 $\chi^2/\text{NDF}: 121.8/68$

In: -168.093 ± 225.633 $\chi^2/\text{NDF}: 88.0/55$

Out: -420.600 ± 218.703 $\chi^2/\text{NDF}: 136.0/60$

All: -298.284 ± 157.039 $\chi^2/\text{NDF}: 224.7/116$

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1677.300+/-0.301 χ^2/NDF : 4957139.2/32

Left Out: 1098.909+/-0.183 χ^2/NDF : 824328.7/24

Right Out: 1593.853+/-0.288 χ^2/NDF : 6644228.1/35

Left In: 1099.585+/-0.188 χ^2/NDF : 679896.1/22

Left: 1099.238+/-0.131 χ^2/NDF : 1504231.4/47

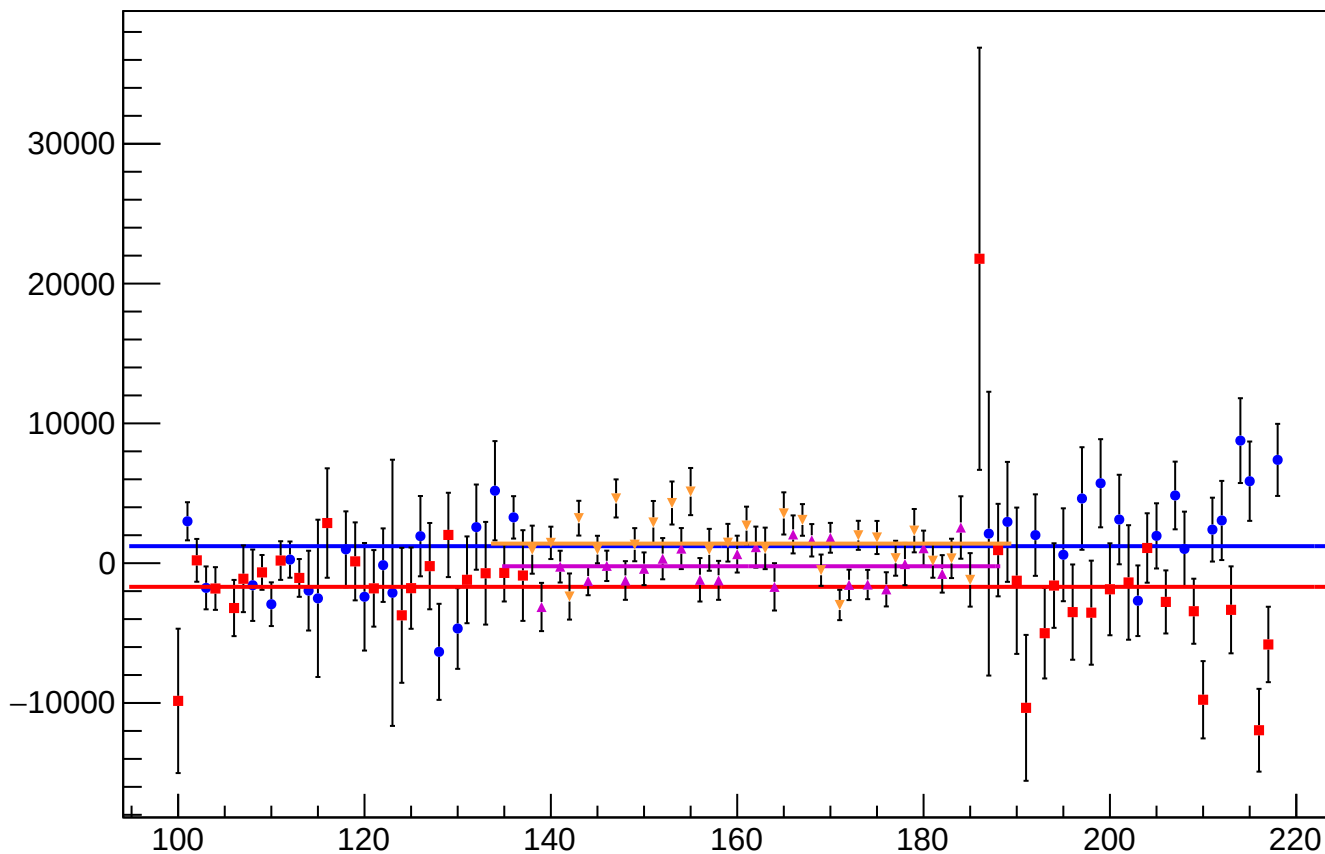
Right: 1633.779+/-0.208 χ^2/NDF : 11641574.1/68

In: 1262.390+/-0.160 χ^2/NDF : 8290708.5/55

Out: 1241.754+/-0.155 χ^2/NDF : 9571609.6/60

All: 1251.750+/-0.111 χ^2/NDF : 17870943.2/111

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 1216.718 $\pm$ 427.239 χ^2/NDF : 53.2/32

Left Out: 1400.458 $\pm$ 261.804 χ^2/NDF : 52.2/24

Right Out: -1692.345 $\pm$ 409.631 χ^2/NDF : 44.1/35

Left In: -219.393 $\pm$ 268.852 χ^2/NDF : 25.0/22

Left: 612.044 $\pm$ 187.566 χ^2/NDF : 95.9/47

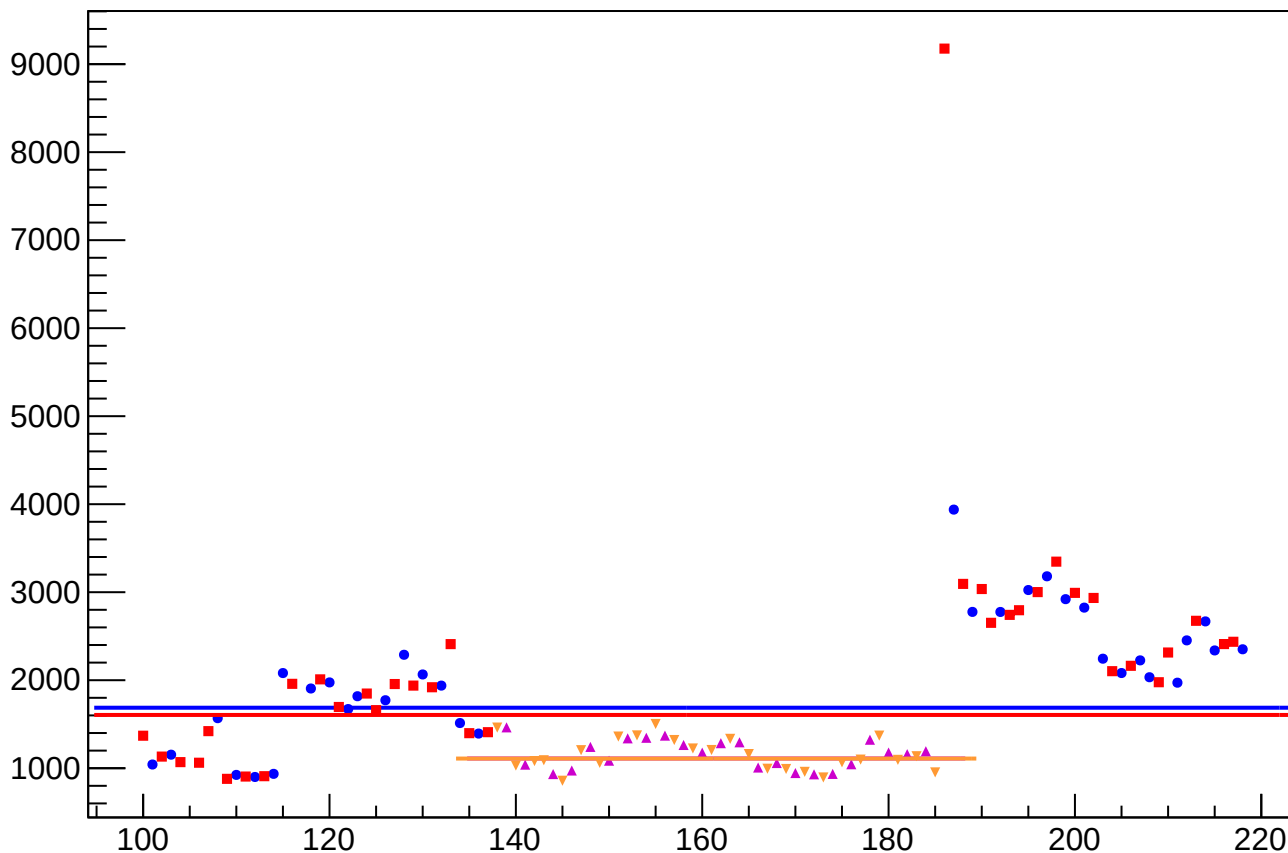
Right: -298.995 $\pm$ 295.682 χ^2/NDF : 121.4/68

In: 187.979 $\pm$ 227.548 χ^2/NDF : 86.3/55

Out: 503.504 $\pm$ 220.598 χ^2/NDF : 136.8/60

All: 350.633 $\pm$ 158.386 χ^2/NDF : 224.1/116

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1687.470+/-0.302 χ^2/NDF : 4903928.8/32

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1605.285+/-0.290 χ^2/NDF : 6576735.0/35

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

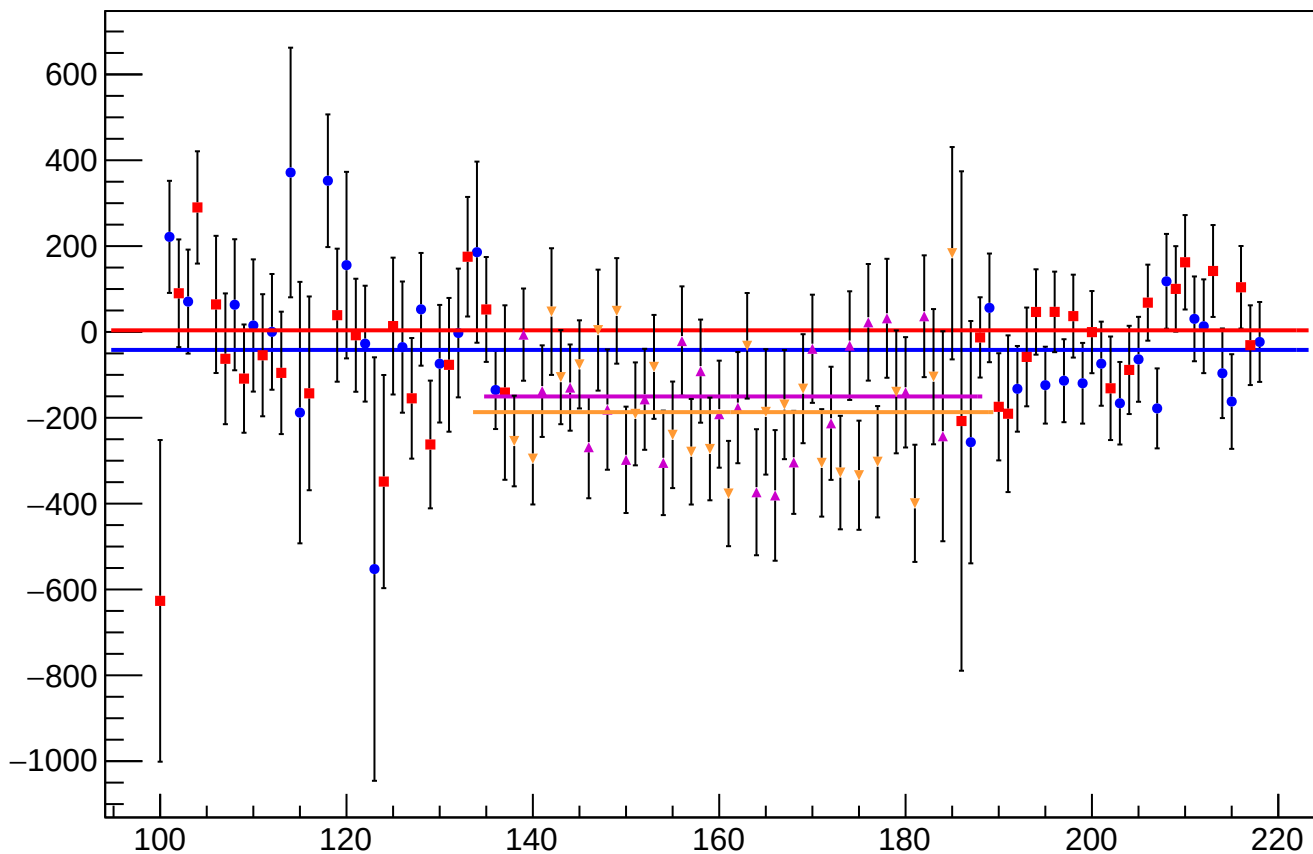
Right: 1644.649+/-0.209 χ^2/NDF : 11519223.5/68

In: 1274.195+/-0.161 χ^2/NDF : 8186312.9/55

Out: 1253.470+/-0.156 χ^2/NDF : 9466808.1/60

All: 1263.511+/-0.112 χ^2/NDF : 17661673.9/117

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -41.875 ± 21.032 χ^2/NDF : 31.6/32

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: 3.771 ± 20.714 χ^2/NDF : 31.9/35

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

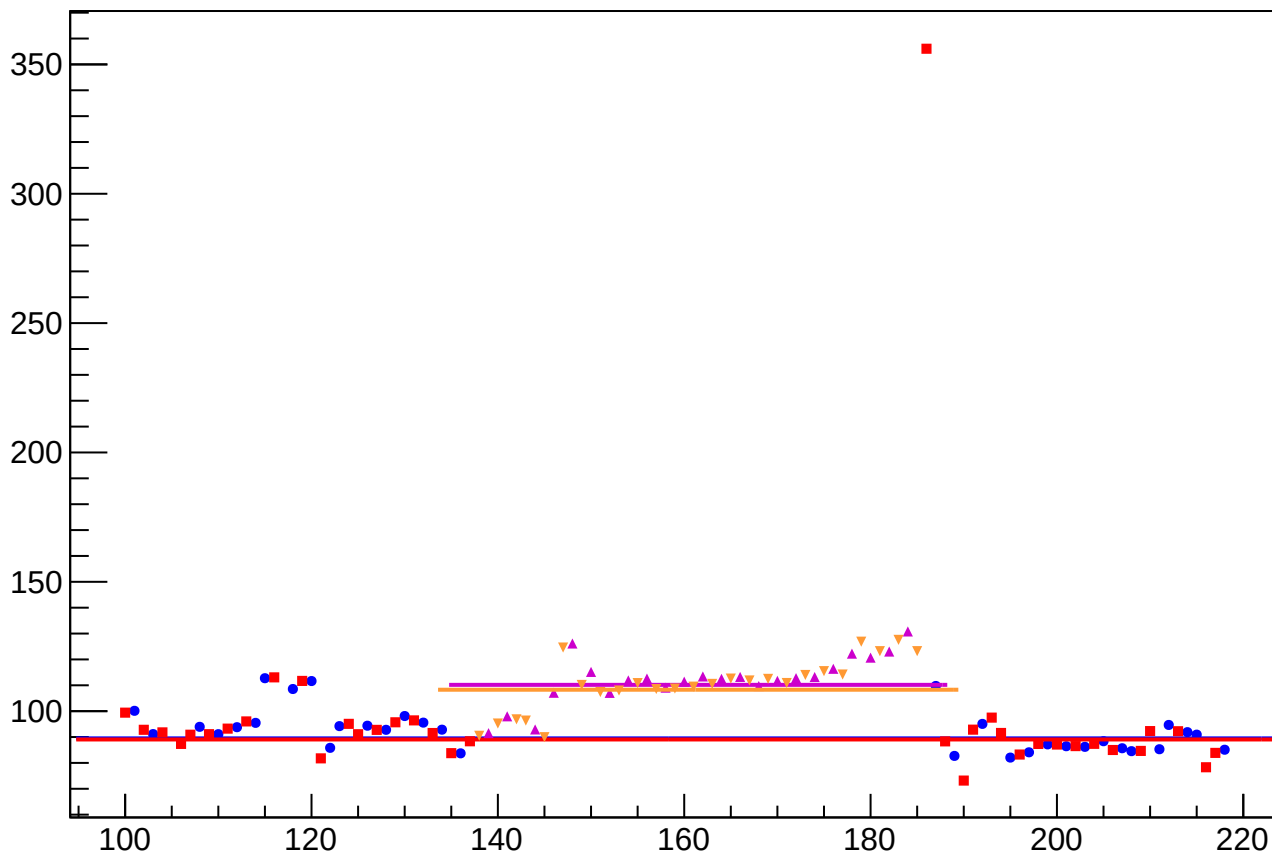
Right: -18.705 ± 14.758 χ^2/NDF : 65.9/68

In: -83.890 ± 16.461 χ^2/NDF : 62.6/55

Out: -72.695 ± 16.030 χ^2/NDF : 92.5/60

All: -78.144 ± 11.484 χ^2/NDF : 155.3/116

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected

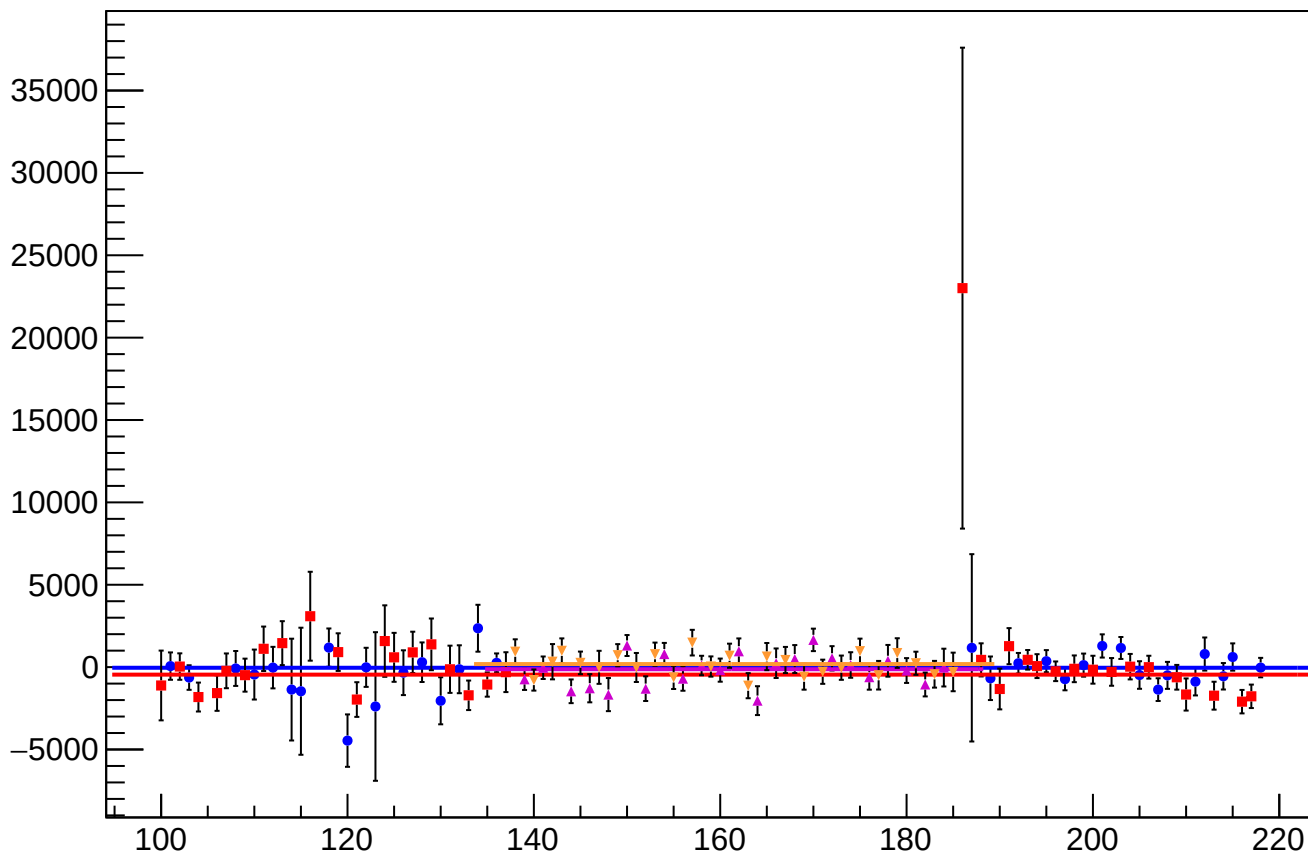


Right In: 89.480 $\pm$ 0.015 χ^2 /NDF: 175600.1/32
 Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24
 Right Out: 89.057 $\pm$ 0.015 χ^2 /NDF: 619079.2/35
 Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47
 Right: 89.265 $\pm$ 0.010 χ^2 /NDF: 795090.0/68
 In: 97.498 $\pm$ 0.012 χ^2 /NDF: 1172688.6/55
 Out: 96.772 $\pm$ 0.011 χ^2 /NDF: 1641271.3/60

All: 97.125 $\pm$ 0.008 χ^2 /NDF: 2815957.1/116

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -38.943 ± 157.674 χ^2/NDF : 31.1/32

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -456.140 ± 156.199 χ^2/NDF : 42.3/35

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

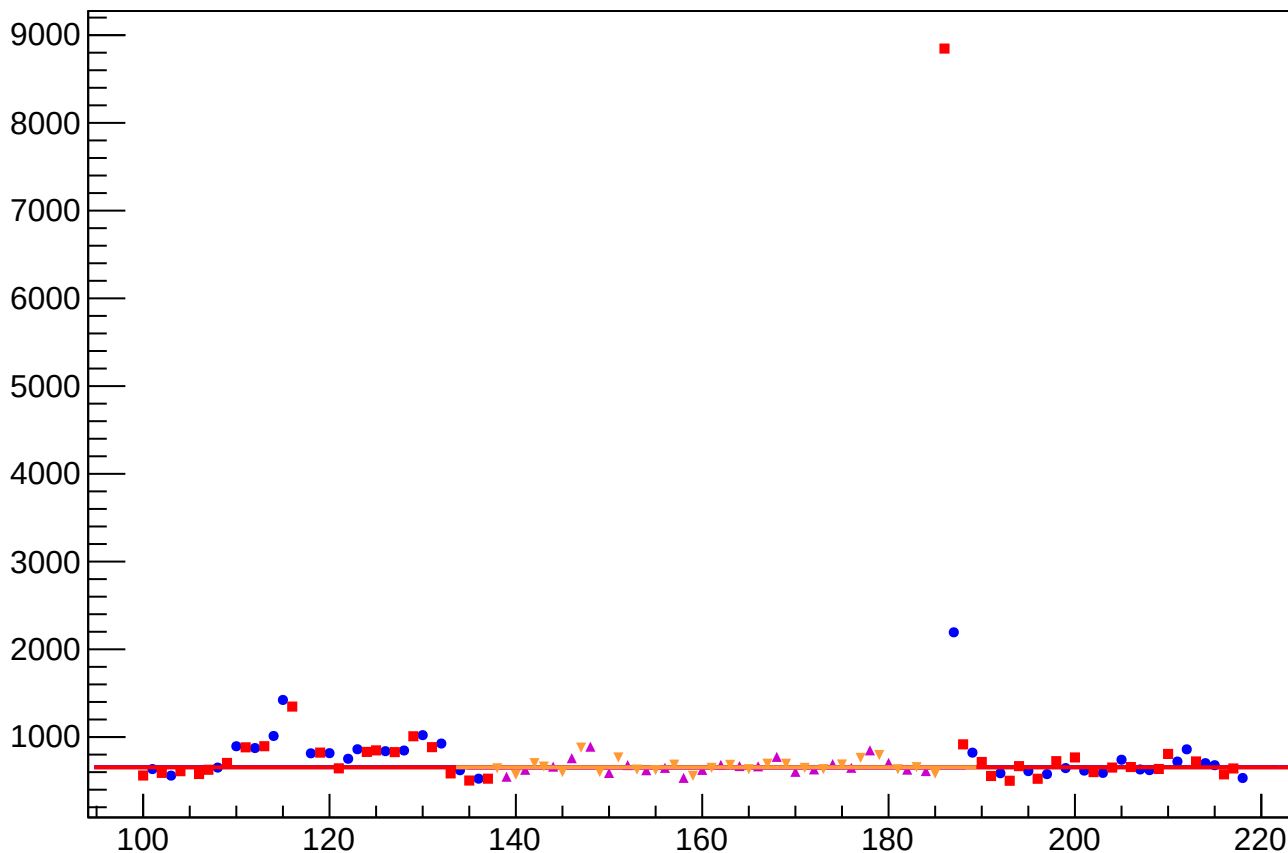
Right: -249.503 ± 110.967 χ^2/NDF : 76.9/68

In: -84.011 ± 111.309 χ^2/NDF : 67.5/55

Out: -130.166 ± 109.549 χ^2/NDF : 69.2/60

All: -107.456 ± 78.078 χ^2/NDF : 136.8/116

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 656.657 $\pm$ 0.111 χ^2 /NDF: 1196480.7/32

Left Out: 655.155 $\pm$ 0.109 χ^2 /NDF: 367349.8/24

Right Out: 655.021 $\pm$ 0.110 χ^2 /NDF: 1854294.3/35

Left In: 650.883 $\pm$ 0.111 χ^2 /NDF: 466116.8/22

Left: 653.067 $\pm$ 0.078 χ^2 /NDF: 834222.1/47

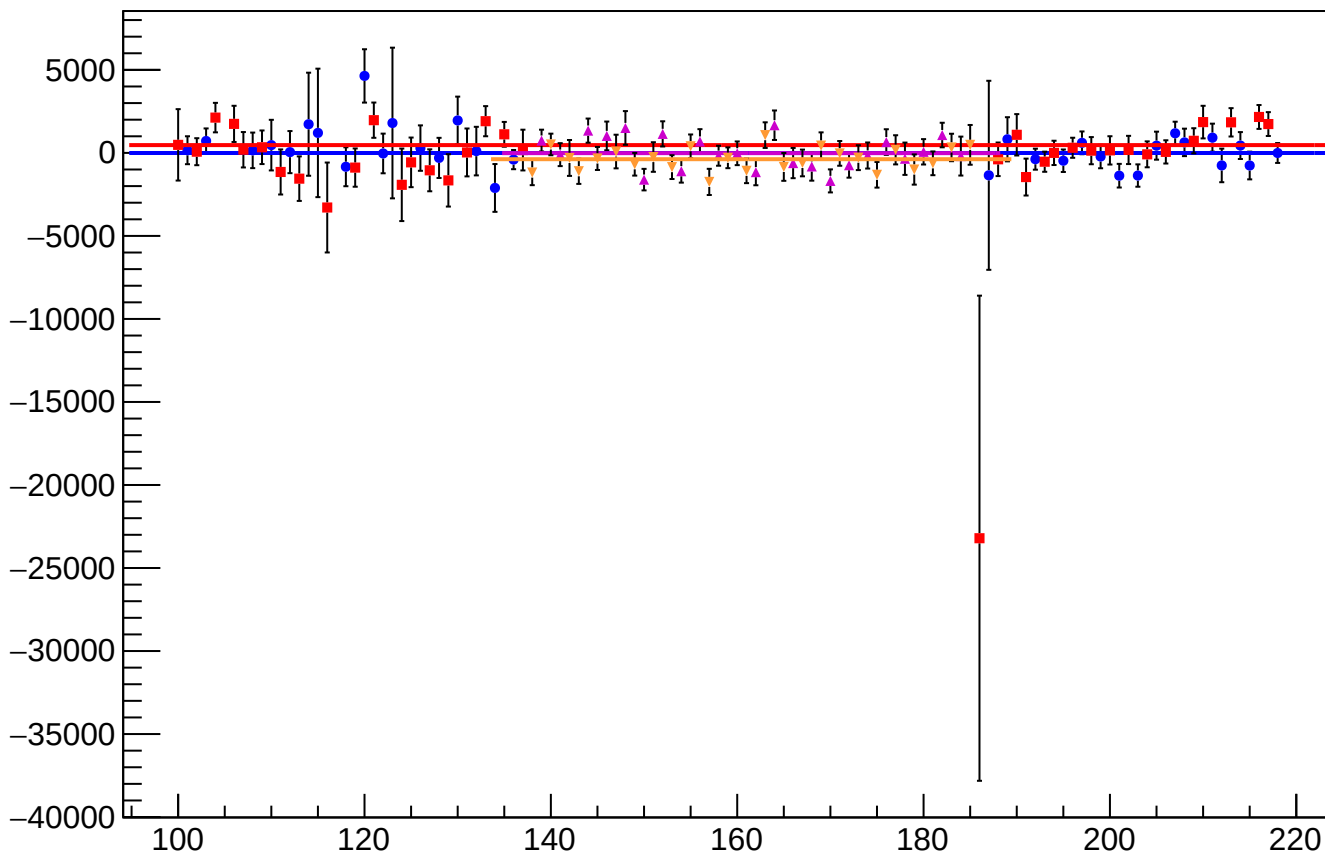
Right: 655.831 $\pm$ 0.078 χ^2 /NDF: 3050883.7/68

In: 653.761 $\pm$ 0.079 χ^2 /NDF: 1663943.0/55

Out: 655.089 $\pm$ 0.077 χ^2 /NDF: 2221644.8/60

All: 654.436 $\pm$ 0.055 χ^2 /NDF: 3885732.6/116

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -5.873+/-159.265 χ^2/NDF : 31.6/32

Left Out: -379.470+/-155.892 χ^2/NDF : 18.8/24

Right Out: 469.539+/-157.815 χ^2/NDF : 47.0/35

Left In: -14.768+/-159.513 χ^2/NDF : 37.2/22

Left: -201.306+/-111.491 χ^2/NDF : 58.7/47

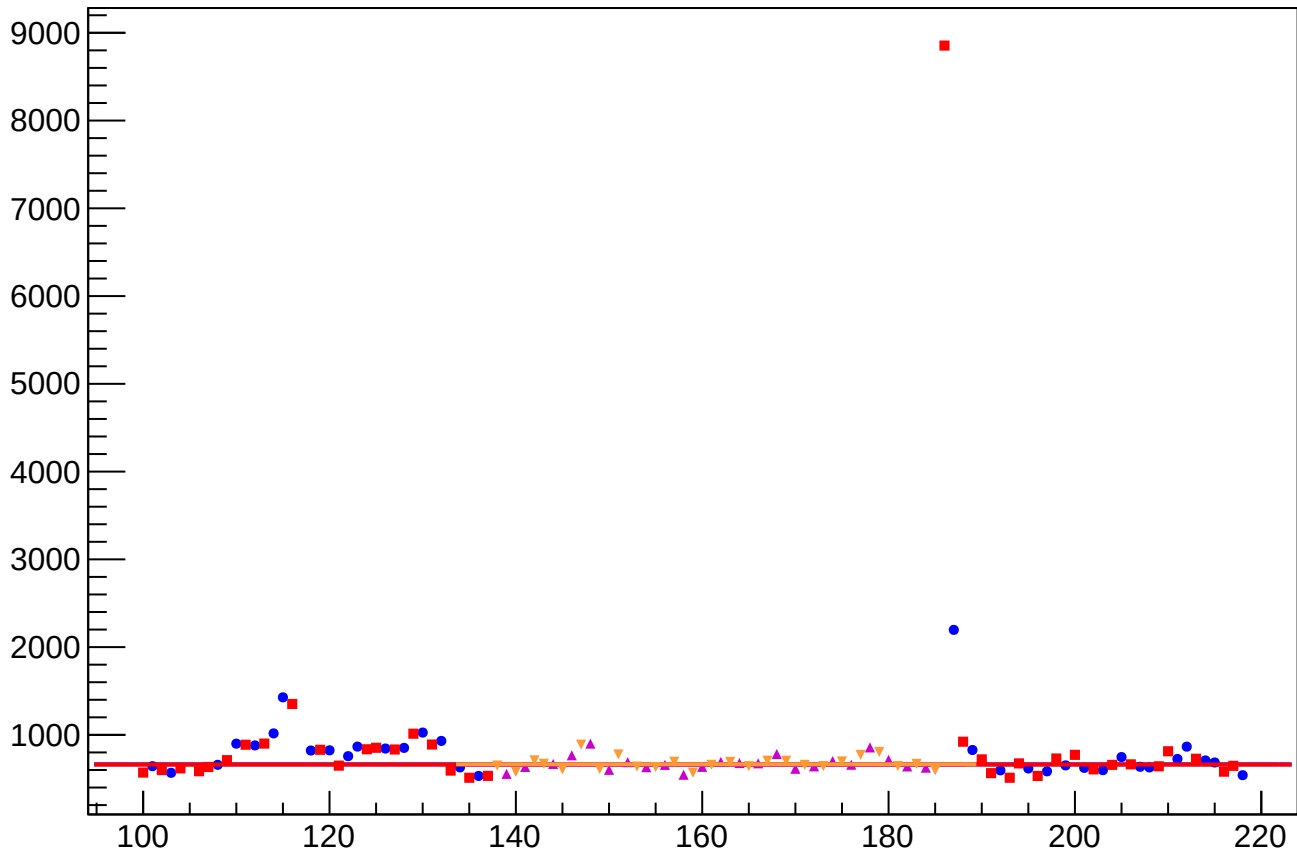
Right: 234.007+/-112.101 χ^2/NDF : 83.1/68

In: -10.313+/-112.705 χ^2/NDF : 68.8/55

Out: 39.831+/-110.906 χ^2/NDF : 80.5/60

All: 15.162+/-79.051 χ^2/NDF : 149.4/116

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 663.697+/-0.113 χ^2/NDF : 1168147.4/32

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 662.309+/-0.112 χ^2/NDF : 1816642.2/35

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

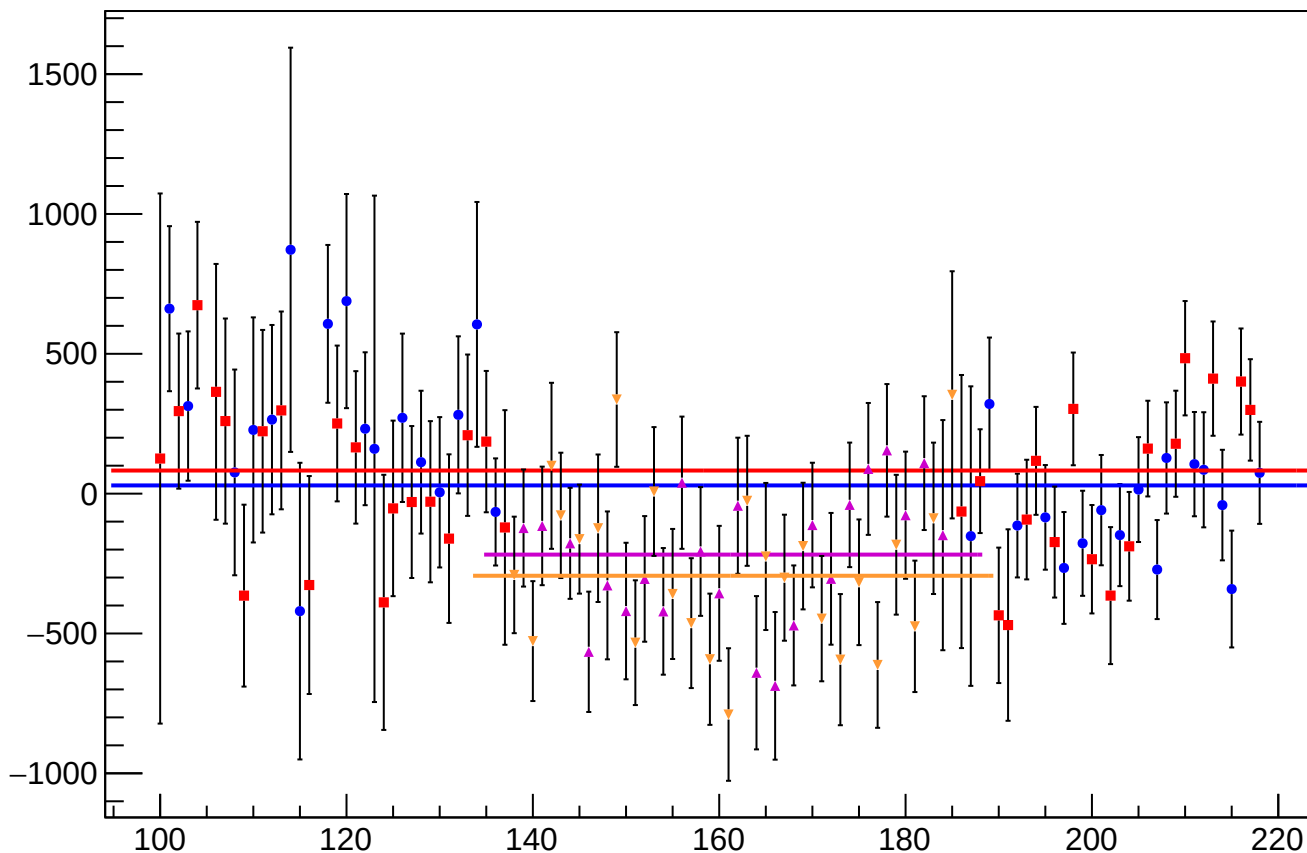
Right: 662.997+/-0.079 χ^2/NDF : 2984866.2/68

In: 662.296+/-0.080 χ^2/NDF : 1617637.6/55

Out: 663.556+/-0.078 χ^2/NDF : 2173942.6/60

All: 662.936+/-0.056 χ^2/NDF : 3791707.2/116

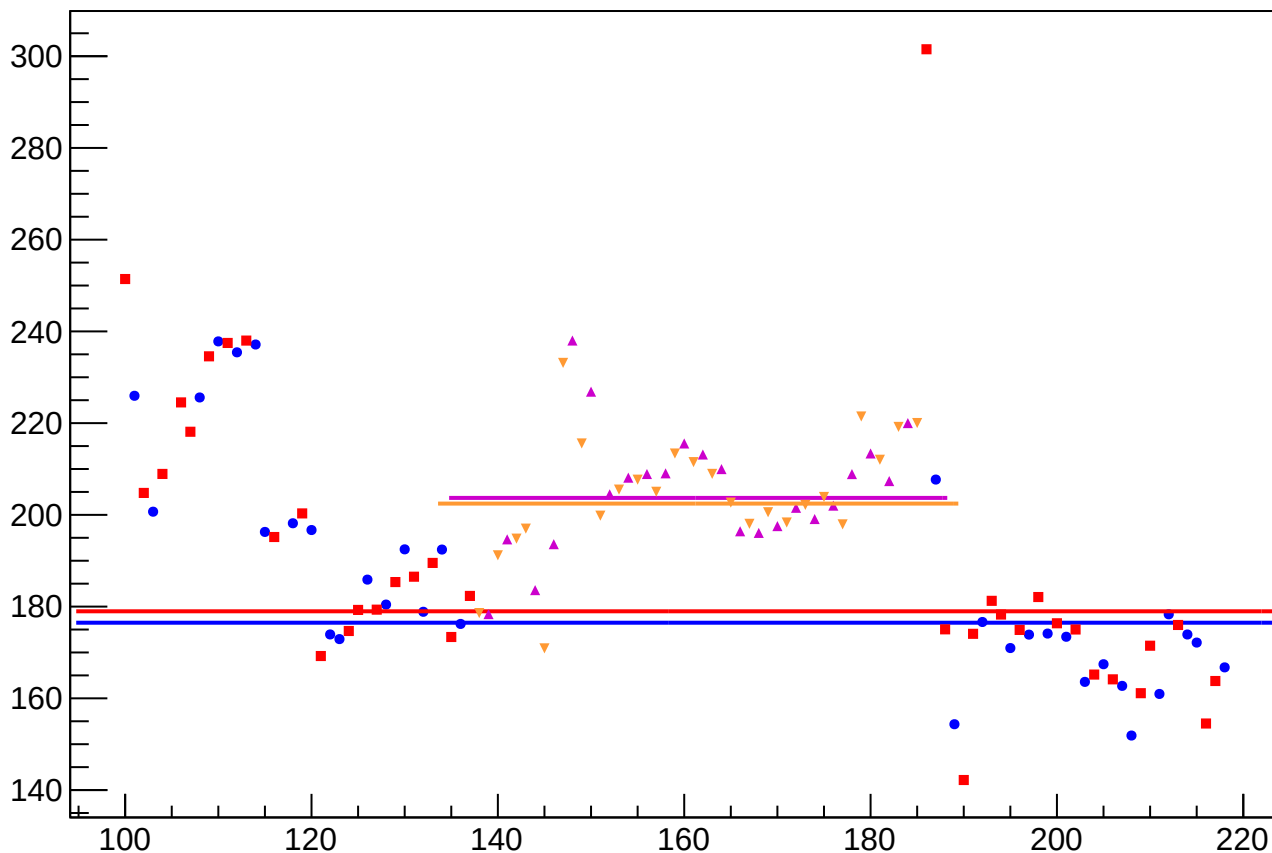
reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 29.403 ± 41.625 $\chi^2/\text{NDF}: 33.6/32$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 82.662 ± 41.671 $\chi^2/\text{NDF}: 41.9/35$
 Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$
 Right: 56.002 ± 29.449 $\chi^2/\text{NDF}: 76.4/68$
 In: -74.728 ± 31.674 $\chi^2/\text{NDF}: 69.8/55$
 Out: -82.136 ± 31.240 $\chi^2/\text{NDF}: 107.9/60$
 All: -78.483 ± 22.242 $\chi^2/\text{NDF}: 177.8/116$

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 176.487 $\pm$ 0.029 χ^2 /NDF: 367530.6/32

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 178.976 $\pm$ 0.029 χ^2 /NDF: 551231.9/35

Left In: 203.699 $\pm$ 0.035 χ^2 /NDF:136193.4/22

Left: 203.058 $\pm$ 0.024 χ^2 /NDF: 295442.7/47

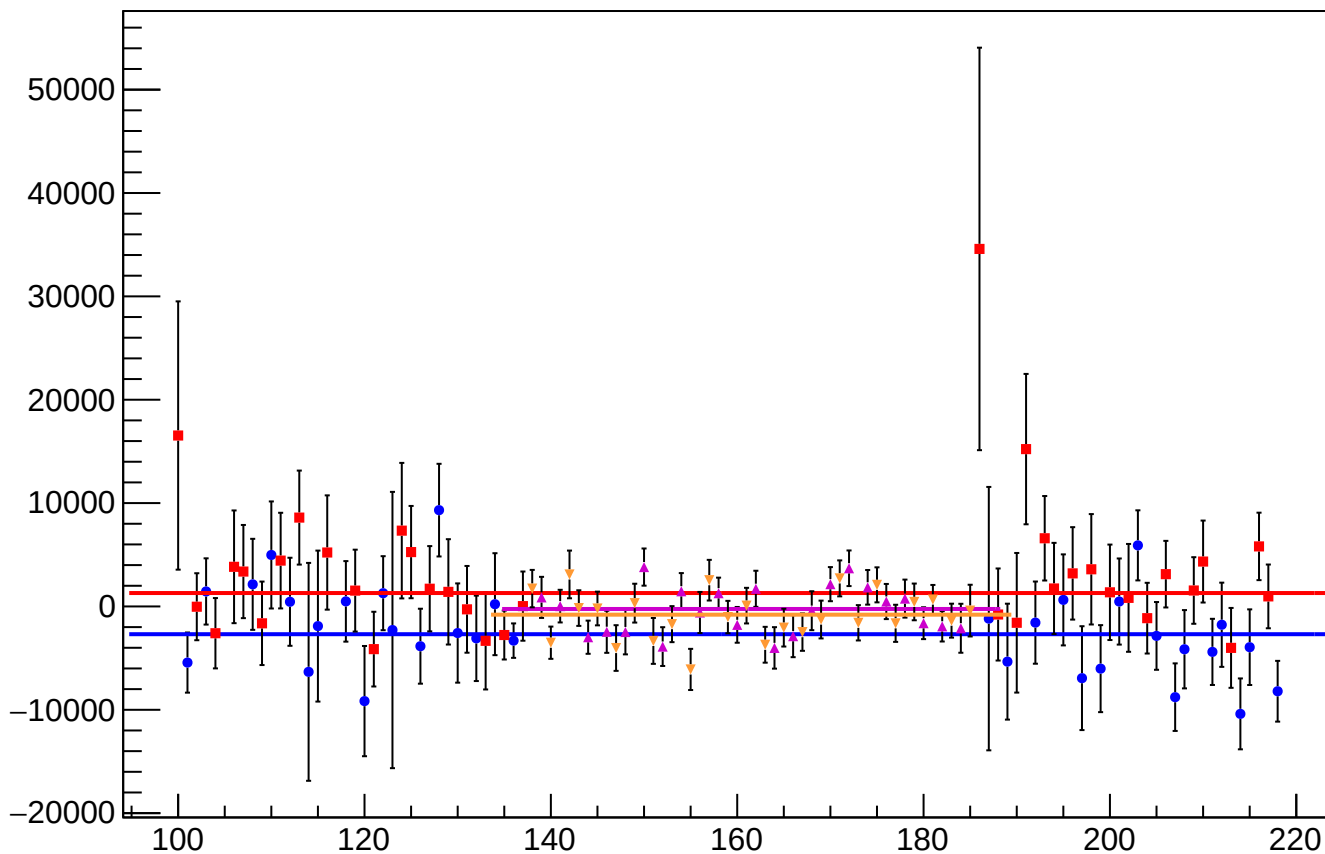
Right: 177.730 $\pm$ 0.021 χ^2 /NDF: 922332.8/68

In: 187.942 $\pm$ 0.022 χ^2 /NDF:863531.5/55

Out: 189.261 $\pm$ 0.022 χ^2 /NDF:987997.6/60

All: 188.611 $\pm$ 0.016 χ^2 /NDF: 1853287.6/116

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -2685.737 $\pm$ 661.679 χ^2 /NDF: 39.6/32

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF: 35.7/24

Right Out: 1297.191 $\pm$ 686.509 χ^2 /NDF: 29.7/35

Left In: -245.102 $\pm$ 369.846 χ^2 /NDF: 35.7/22

Left: -529.902 $\pm$ 257.175 χ^2 /NDF: 72.6/47

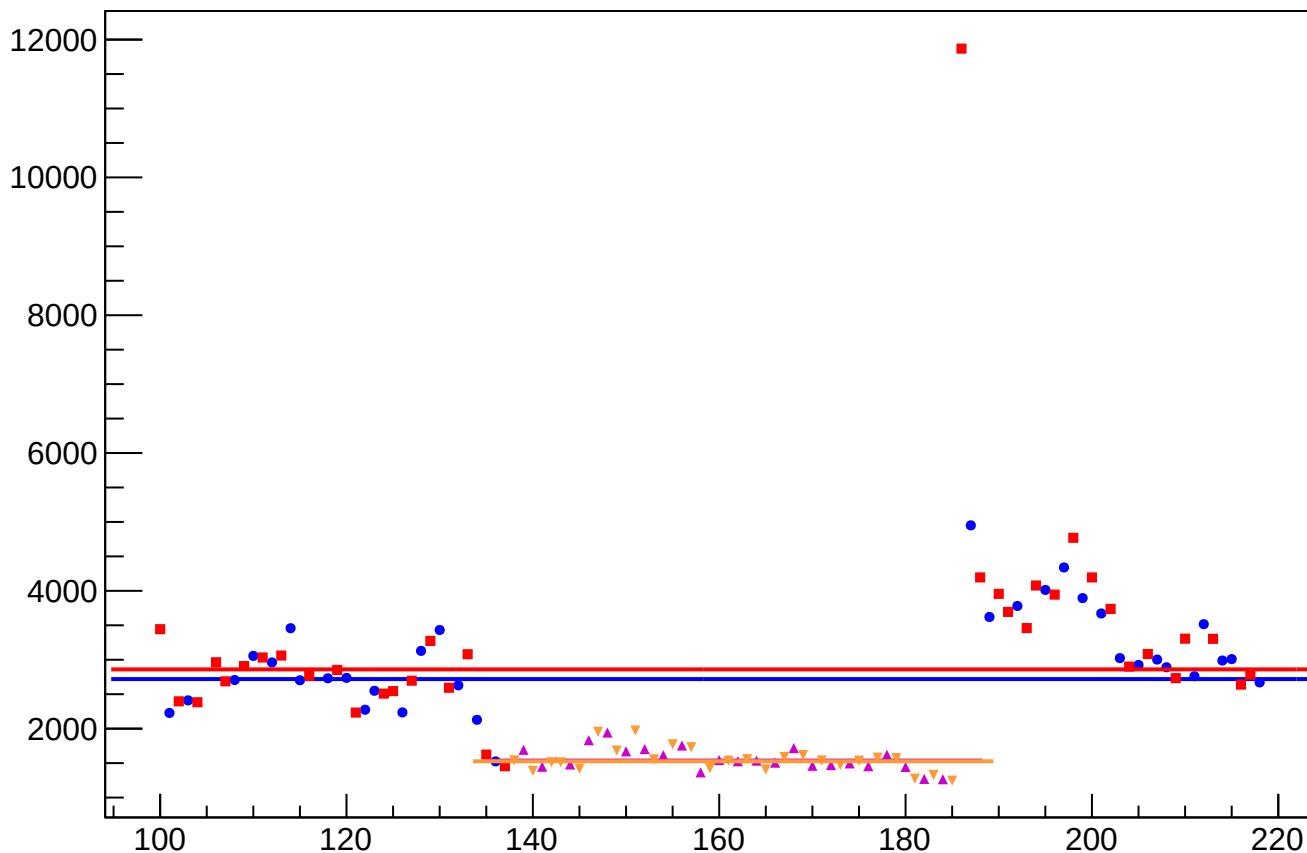
Right: -767.605 $\pm$ 476.414 χ^2 /NDF: 86.8/68

In: -826.102 $\pm$ 322.837 χ^2 /NDF: 85.7/55

Out: -349.185 $\pm$ 317.327 χ^2 /NDF: 72.8/60

All: -583.539 $\pm$ 226.307 χ^2 /NDF: 159.6/116

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2719.626 $\pm$ 0.468

χ^2 /NDF: 2327265.9/32

Left Out: 1526.712 $\pm$ 0.253

χ^2 /NDF: 394892.7/24

Right Out: 2860.371 $\pm$ 0.485

χ^2 /NDF: 2652655.6/35

Left In: 1536.538 $\pm$ 0.262

χ^2 /NDF: 350373.3/22

Left: 1531.463 $\pm$ 0.182

χ^2 /NDF: 745995.2/47

Right: 2787.407 $\pm$ 0.337

χ^2 /NDF: 5023500.8/68

In: 1818.175 $\pm$ 0.228

χ^2 /NDF: 7549498.2/55

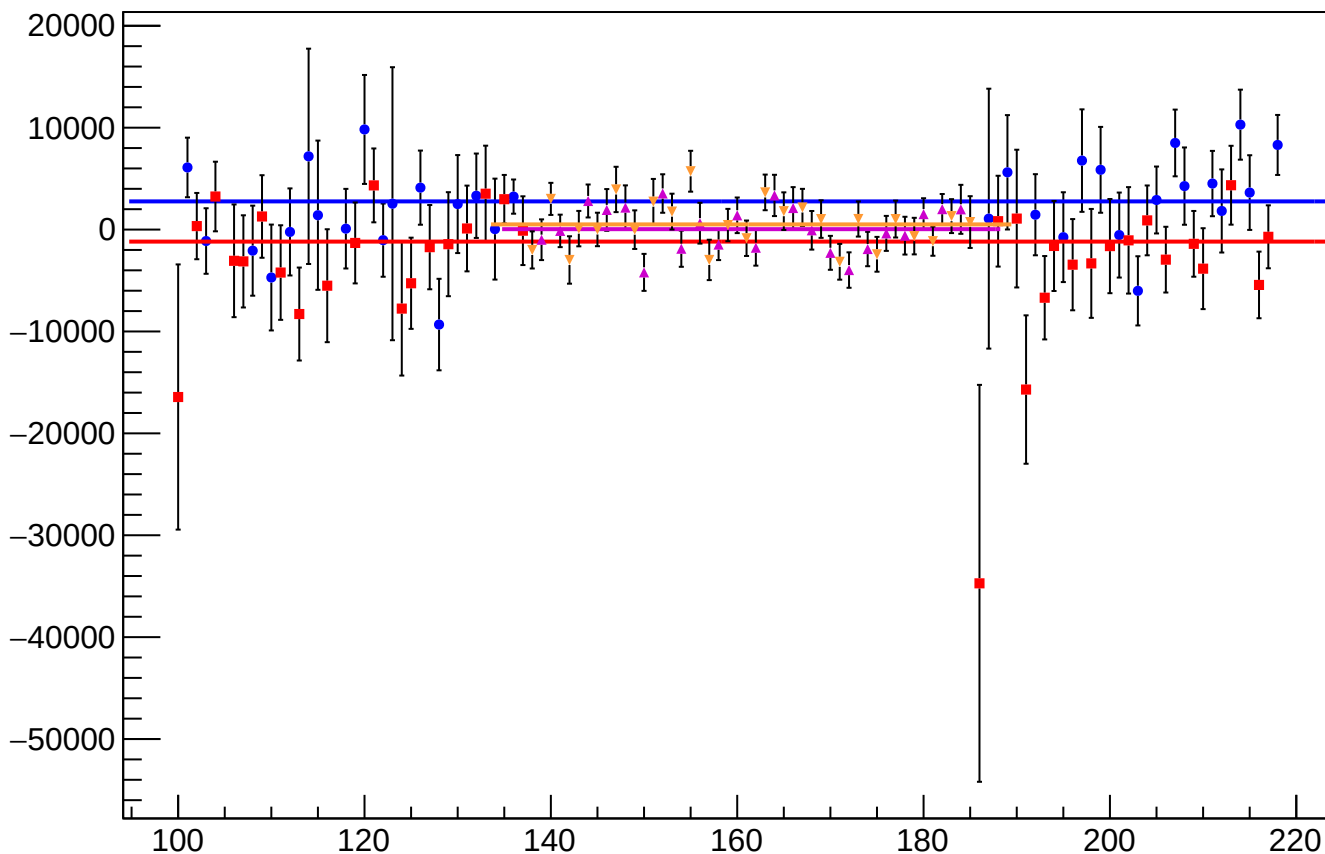
Out: 1811.661 $\pm$ 0.224

χ^2 /NDF: 8982782.2/60

All: 1814.862 $\pm$ 0.160

χ^2 /NDF: 16532694.5/117

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2765.655 $\pm$ 663.673 χ^2 /NDF: 39.3/32

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF:35.4/24

Right Out: -1180.090 $\pm$ 688.456 χ^2 /NDF: 30.2/35

Left In: 40.080 $\pm$ 373.261 χ^2 /NDF:33.6/22

Left: 281.730 $\pm$ 259.556 χ^2 /NDF: 69.8/47

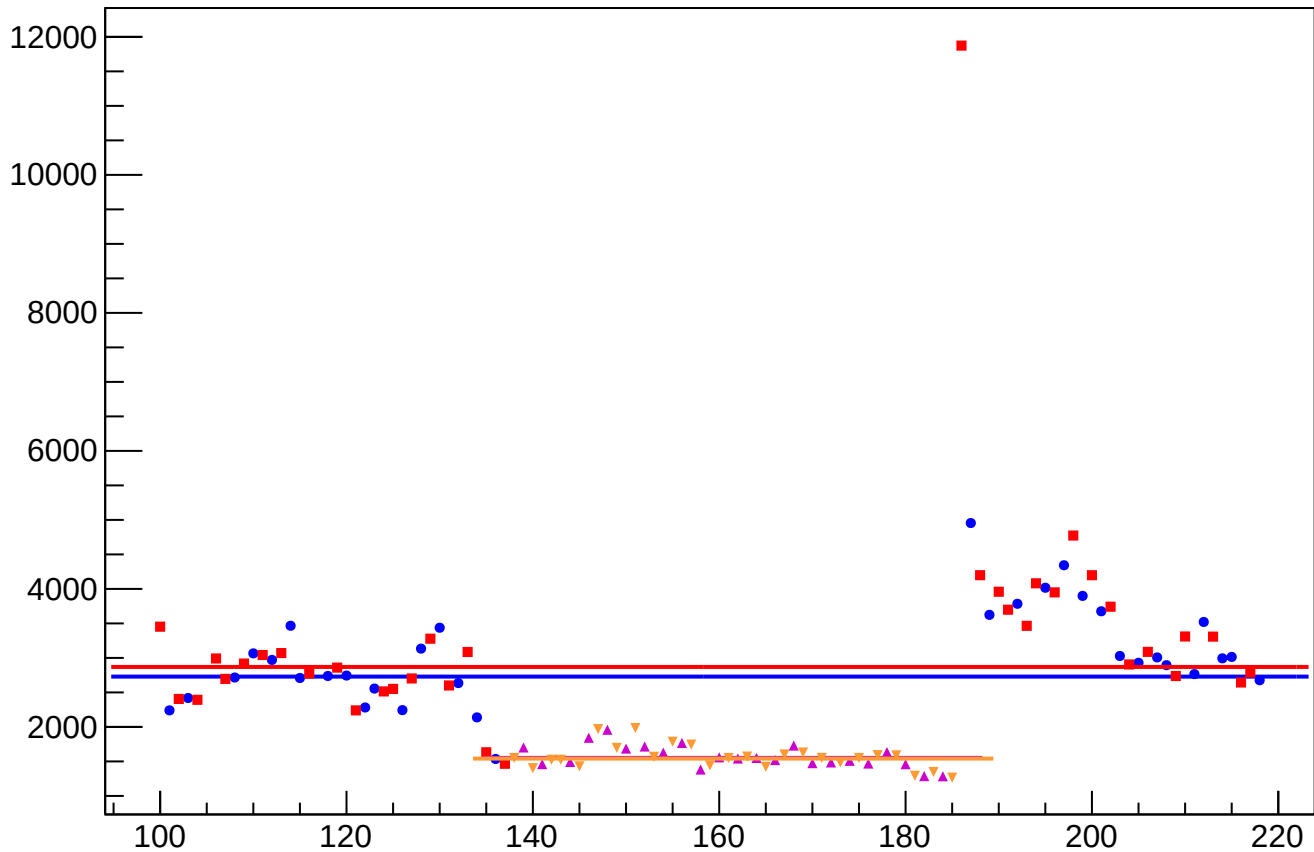
Right: 865.080 $\pm$ 477.809 χ^2 /NDF: 86.6/68

In: 695.042 $\pm$ 325.337 χ^2 /NDF:85.7/55

Out: 143.662 $\pm$ 319.832 χ^2 /NDF:70.3/60

All: 414.648 $\pm$ 228.077 χ^2 /NDF: 157.5/116

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2729.236 $\pm$ 0.469 χ^2/NDF : 2294256.4/32

Left Out: 1541.258 $\pm$ 0.255 χ^2/NDF :382045.4/24

Right Out: 2869.365 $\pm$ 0.487 χ^2/NDF : 2627031.8/35

Left In: 1551.063 $\pm$ 0.264 χ^2/NDF :338898.9/22

Left: 1546.000 $\pm$ 0.184 χ^2/NDF : 721657.1/47

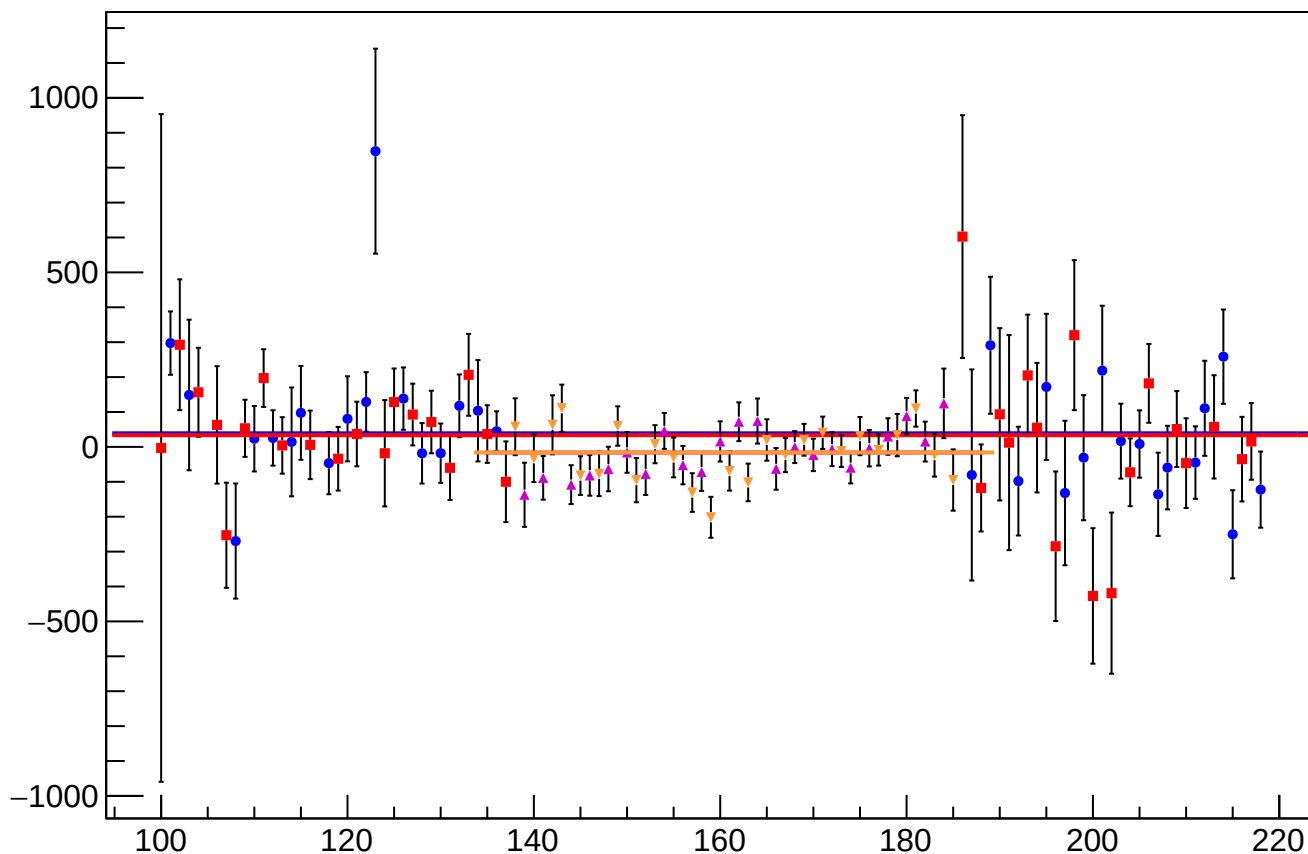
Right: 2796.733 $\pm$ 0.338 χ^2/NDF : 4964235.2/68

In: 1834.181 $\pm$ 0.230 χ^2/NDF :7421443.3/55

Out: 1827.891 $\pm$ 0.226 χ^2/NDF :8845662.7/60

All: 1830.982 $\pm$ 0.161 χ^2/NDF : 16267486.2/1

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 38.888 ± 19.488 χ^2/NDF : 43.7/32

Left Out: -16.049 ± 11.340 χ^2/NDF : 39.7/24

Right Out: 33.558 ± 19.795 χ^2/NDF : 39.9/35

Left In: -16.162 ± 11.649 χ^2/NDF : 25.2/22

Left: -16.104 ± 8.126 χ^2/NDF : 64.9/47

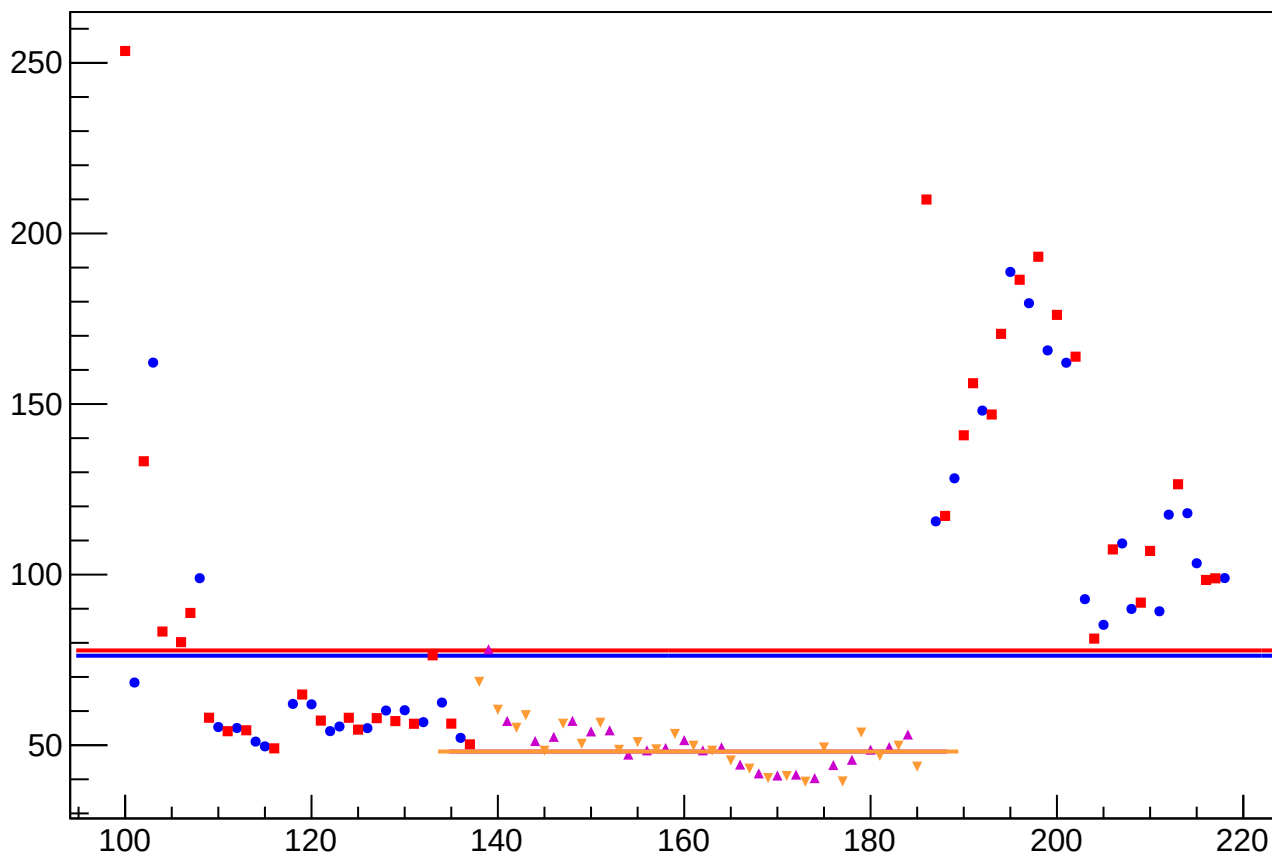
Right: 36.264 ± 13.887 χ^2/NDF : 83.6/68

In: -1.669 ± 9.999 χ^2/NDF : 74.8/55

Out: -3.792 ± 9.840 χ^2/NDF : 84.2/60

All: -2.748 ± 7.013 χ^2/NDF : 159.1/116

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 76.225 $\pm$ 0.014 χ^2 /NDF: 5115661.2/32

Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF: 655250.3/24

Right Out: 77.777 $\pm$ 0.014 χ^2 /NDF: 5802749.3/35

Left In: 48.139 $\pm$ 0.008 χ^2 /NDF: 575025.5/22

Left: 48.140 $\pm$ 0.006 χ^2 /NDF: 1230275.9/47

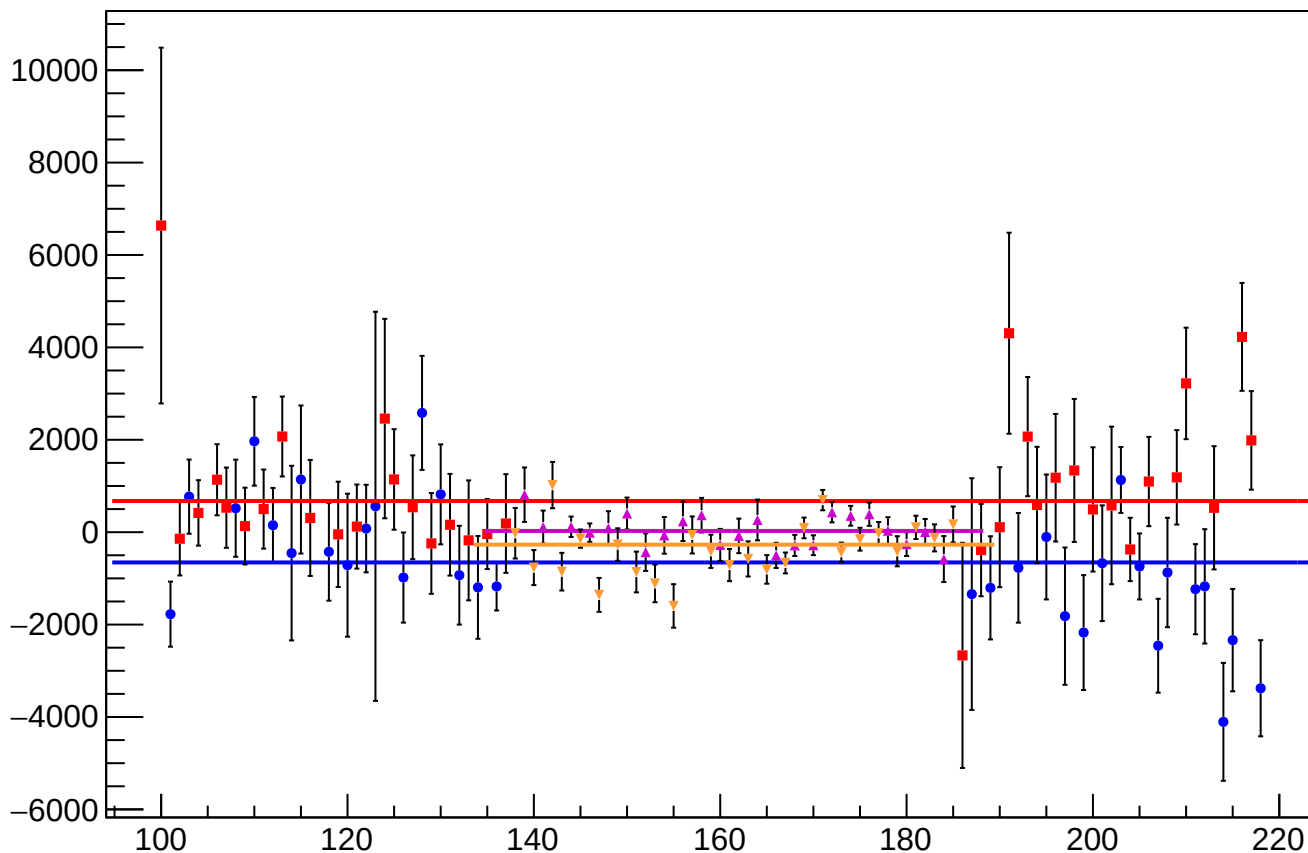
Right: 76.989 $\pm$ 0.010 χ^2 /NDF: 10924657.4/68

In: 55.533 $\pm$ 0.007 χ^2 /NDF: 8751059.7/55

Out: 55.464 $\pm$ 0.007 χ^2 /NDF: 9833382.8/60

All: 55.498 $\pm$ 0.005 χ^2 /NDF: 18584491.5/116

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -654.844 ± 177.292 χ^2/NDF : 56.6/32

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 674.702 ± 176.198 χ^2/NDF : 36.7/35

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

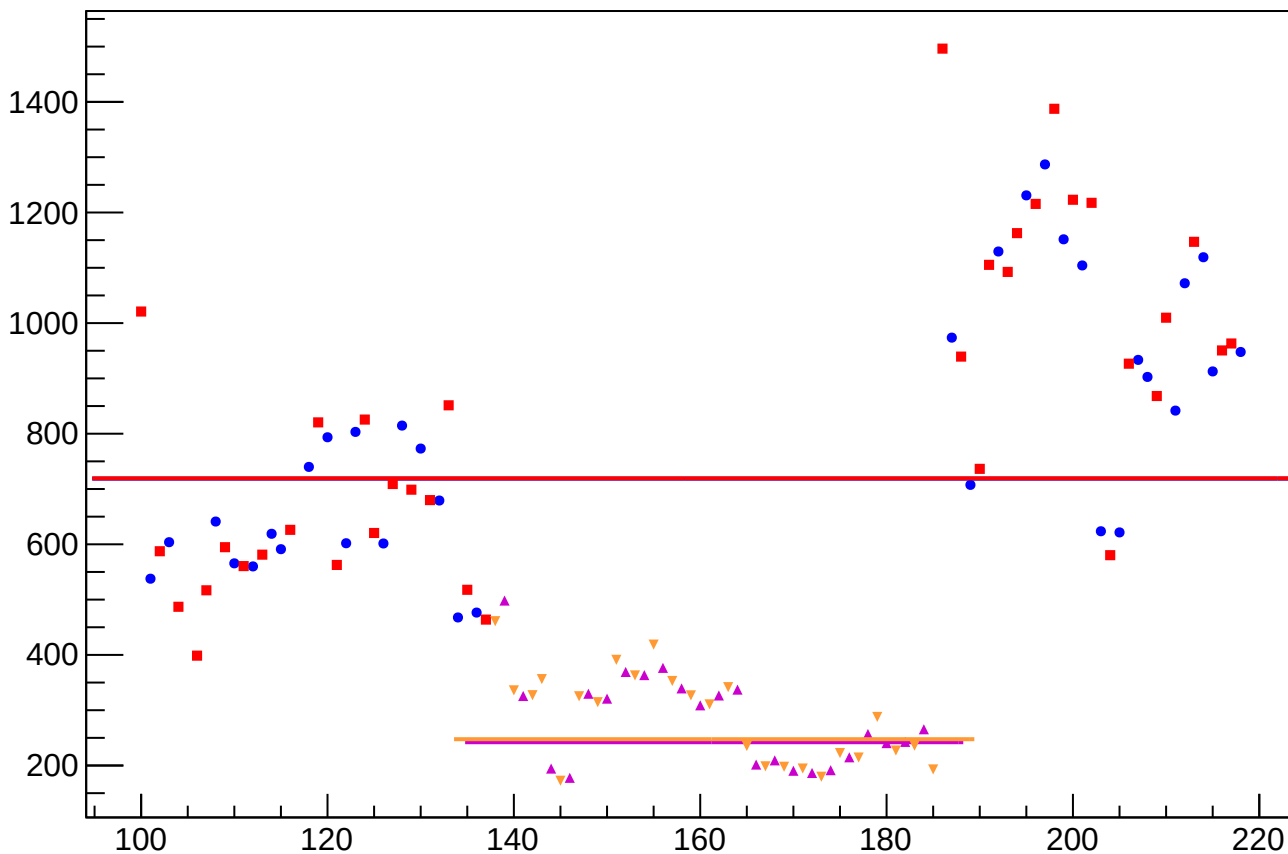
Right: 14.043 ± 124.976 χ^2/NDF : 121.6/68

In: -43.728 ± 57.199 χ^2/NDF : 94.9/55

Out: -171.507 ± 56.948 χ^2/NDF : 132.6/60

All: -107.899 ± 40.357 χ^2/NDF : 230.0/116

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 718.725+/-0.125 χ^2/NDF : 2983759.0/32

Left Out: 247.570+/-0.043 χ^2/NDF : 2780931.0/24

Right Out: 719.332+/-0.125 χ^2/NDF : 3873236.6/35

Left In: 242.117+/-0.043 χ^2/NDF : 2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47

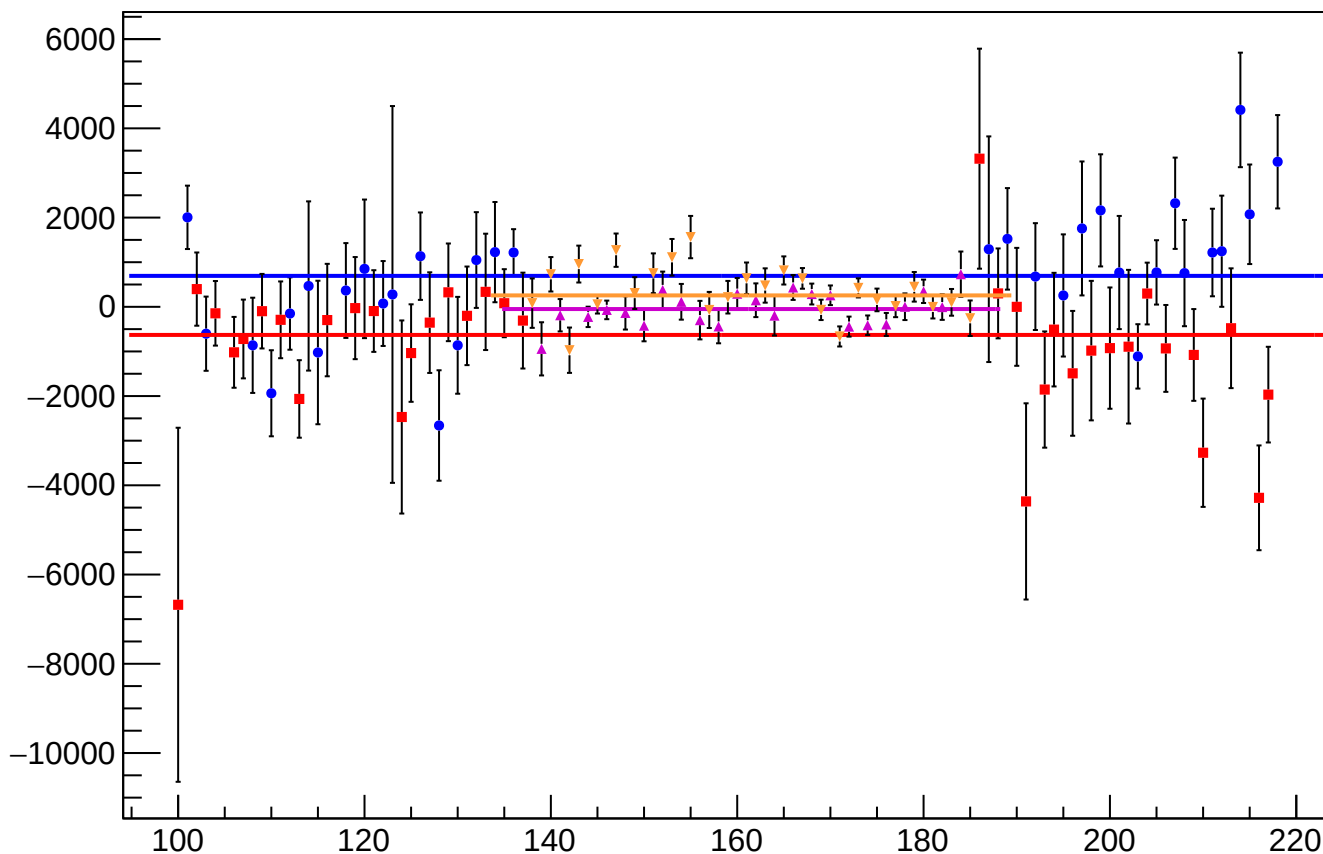
Right: 719.030+/-0.088 χ^2/NDF : 6857007.4/68

In: 291.726+/-0.040 χ^2/NDF : 18399054.8/55

Out: 296.851+/-0.040 χ^2/NDF : 19493982.2/60

All: 294.299+/-0.029 χ^2/NDF : 37901100.6/117

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 693.689 ± 178.859 $\chi^2/\text{NDF}: 56.9/32$

Left Out: 255.995 ± 61.418 $\chi^2/\text{NDF}: 63.6/24$

Right Out: -629.774 ± 178.056 $\chi^2/\text{NDF}: 37.9/35$

Left In: -49.832 ± 61.781 $\chi^2/\text{NDF}: 27.5/22$

Left: 103.982 ± 43.557 $\chi^2/\text{NDF}: 103.4/47$

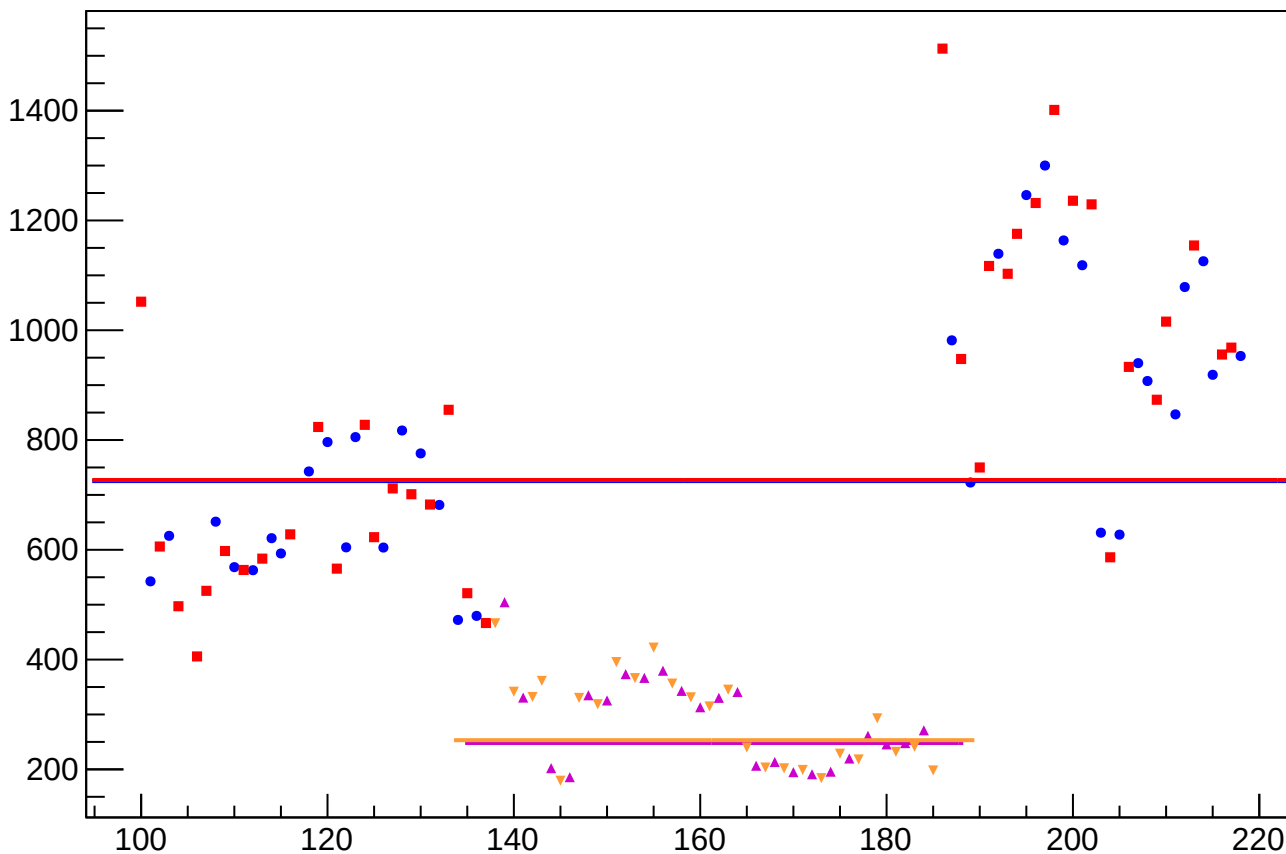
Right: 28.979 ± 126.187 $\chi^2/\text{NDF}: 122.2/68$

In: 29.424 ± 58.396 $\chi^2/\text{NDF}: 99.8/55$

Out: 161.810 ± 58.061 $\chi^2/\text{NDF}: 123.6/60$

All: 95.997 ± 41.173 $\chi^2/\text{NDF}: 226.0/116$

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 725.186 $\pm$ 0.126 χ^2 /NDF: 2978397.5/32

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF:2665975.8/24

Right Out: 727.184 $\pm$ 0.126 χ^2 /NDF: 3831236.8/35

Left In: 248.069 $\pm$ 0.044 χ^2 /NDF:2343295.0/22

Left: 250.618 $\pm$ 0.031 χ^2 /NDF: 5016040.5/47

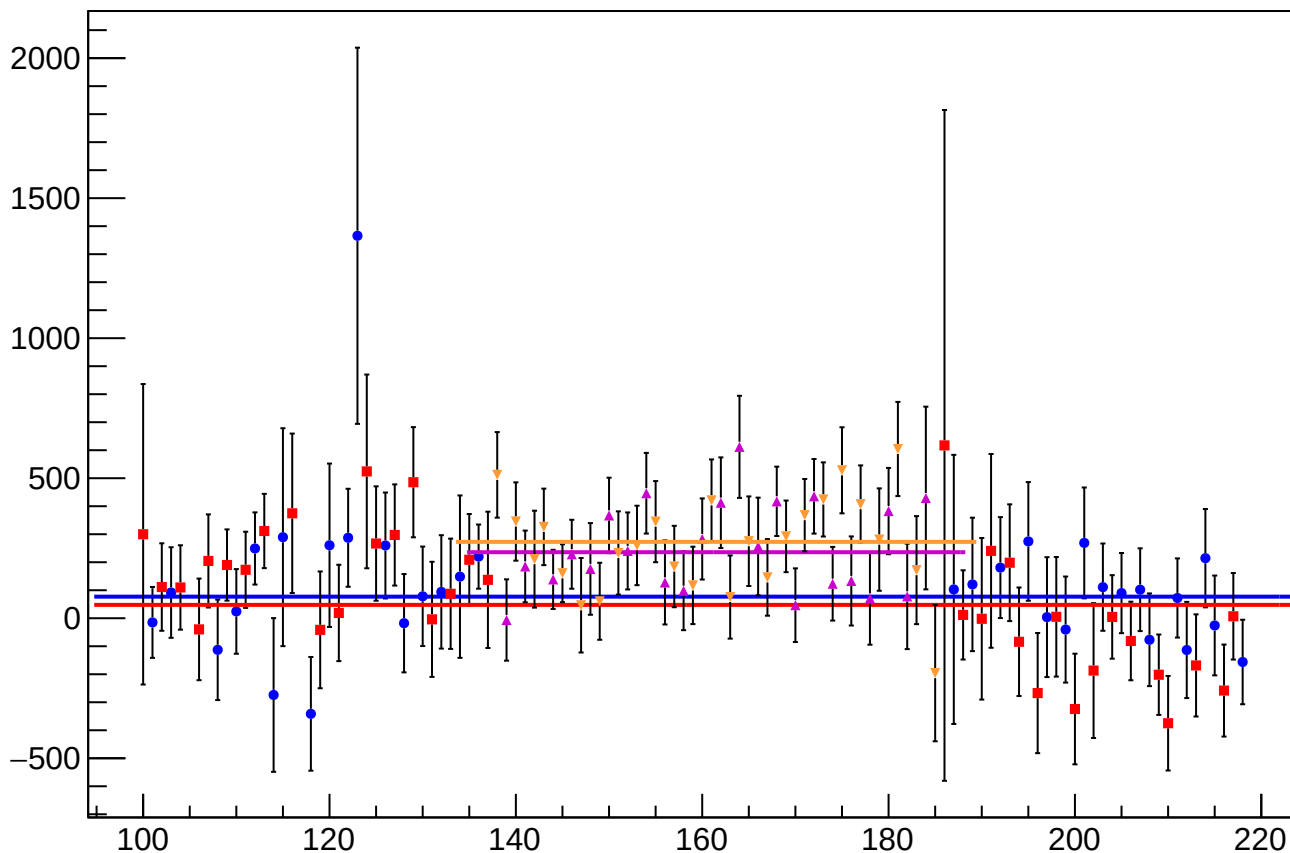
Right: 726.190 $\pm$ 0.089 χ^2 /NDF: 6809759.7/68

In: 298.927 $\pm$ 0.041 χ^2 /NDF:18036422.2/55

Out: 303.543 $\pm$ 0.041 χ^2 /NDF:19166110.7/60

All: 301.248 $\pm$ 0.029 χ^2 /NDF: 37208817.2/117

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 77.080+/-30.929 χ^2/NDF : 26.3/32

Left Out: 272.684+/-29.221 χ^2/NDF : 27.4/24

Right Out: 47.744+/-30.503 χ^2/NDF : 43.8/35

Left In: 235.801+/-30.232 χ^2/NDF : 24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

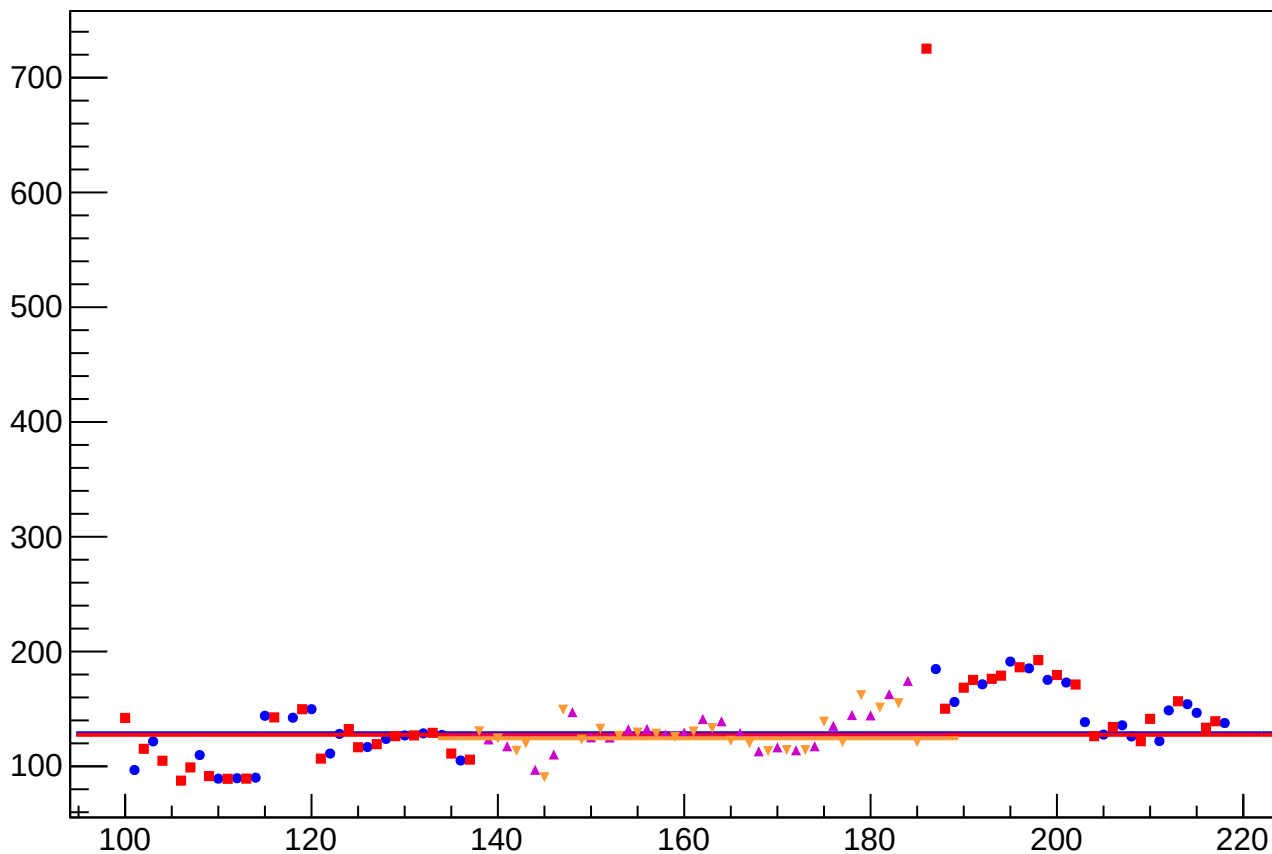
Right: 62.209+/-21.718 χ^2/NDF : 70.6/68

In: 158.250+/-21.619 χ^2/NDF : 64.4/55

Out: 165.041+/-21.101 χ^2/NDF : 99.6/60

All: 161.728+/-15.101 χ^2/NDF : 164.1/116

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 128.805 $\pm$ 0.022 χ^2 /NDF: 1466295.7/32

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 127.464 $\pm$ 0.022 χ^2 /NDF: 2299723.9/35

Left In: 125.205 $\pm$ 0.021 χ^2 /NDF: 501388.2/22

Left: 124.804 $\pm$ 0.015 χ^2 /NDF: 1041801.9/47

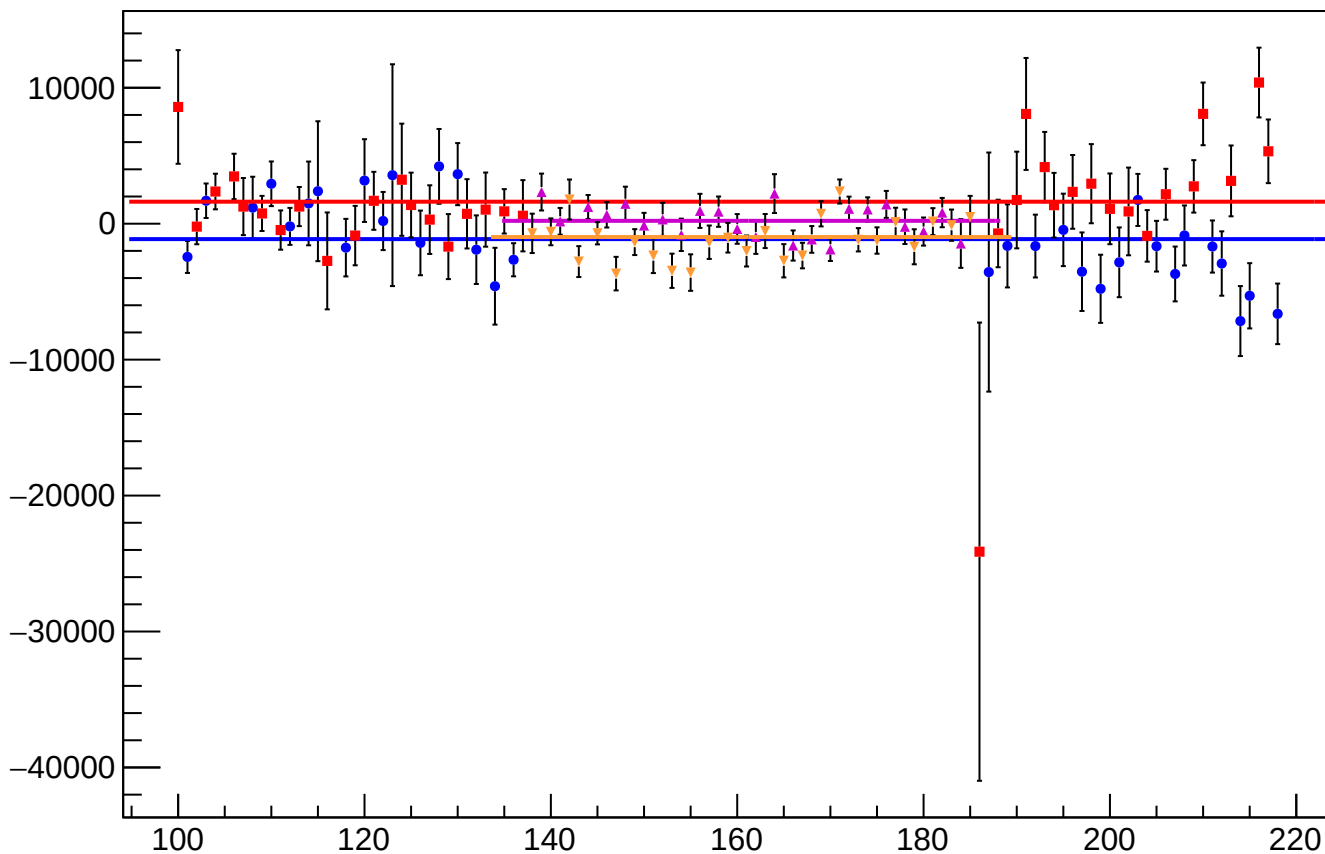
Right: 128.125 $\pm$ 0.015 χ^2 /NDF: 3767924.9/68

In: 126.964 $\pm$ 0.015 χ^2 /NDF: 1981537.6/55

Out: 125.881 $\pm$ 0.015 χ^2 /NDF: 2849781.5/60

All: 126.409 $\pm$ 0.011 χ^2 /NDF: 4833887.8/116

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -1133.881 ± 365.699 χ^2/NDF : 51.9/32

Left Out: -982.839 ± 218.021 χ^2/NDF : 47.2/24

Right Out: 1618.377 ± 355.899 χ^2/NDF : 46.2/35

Left In: 211.420 ± 223.296 χ^2/NDF : 25.7/22

Left: -399.983 ± 155.996 χ^2/NDF : 87.5/47

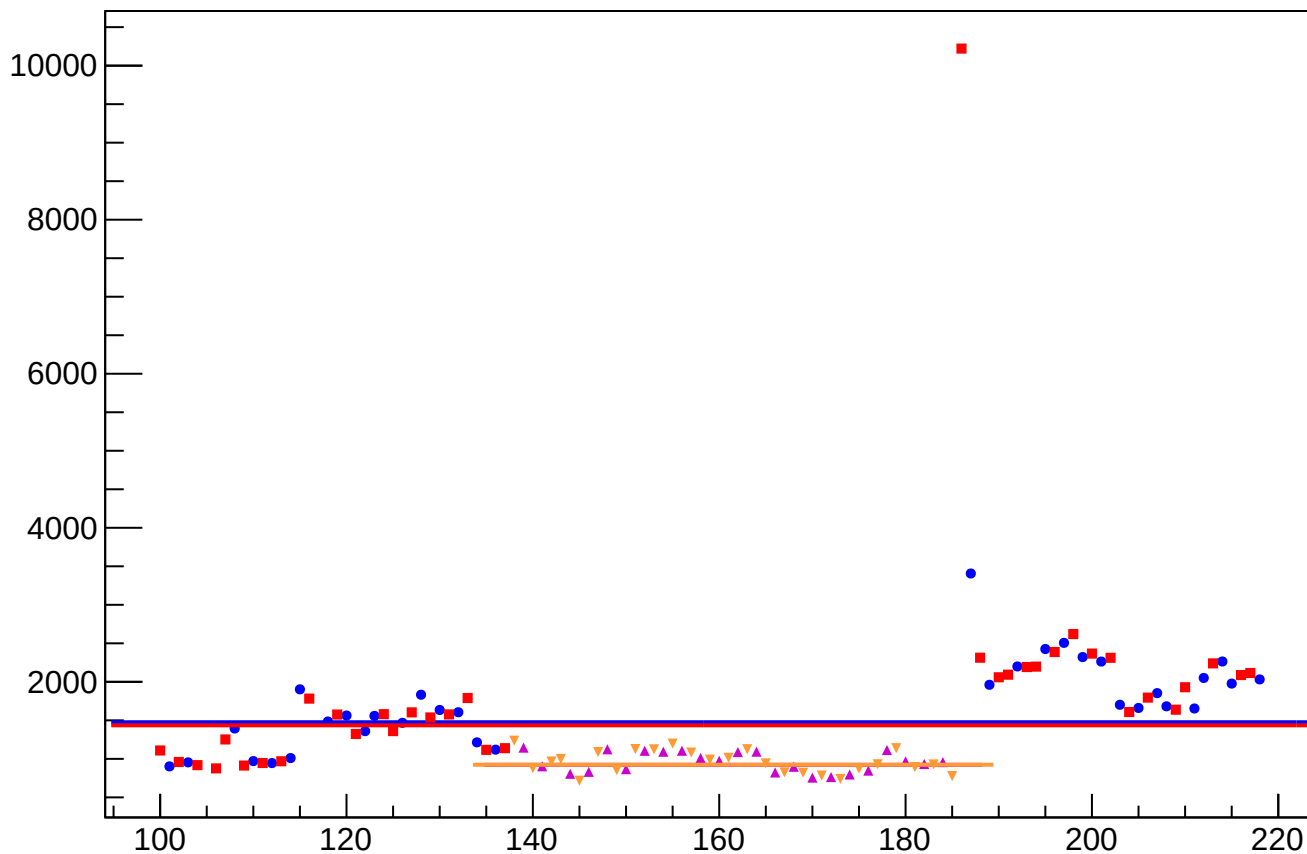
Right: 279.620 ± 255.053 χ^2/NDF : 127.2/68

In: -153.936 ± 190.578 χ^2/NDF : 87.4/55

Out: -273.046 ± 185.911 χ^2/NDF : 132.3/60

All: -214.967 ± 133.078 χ^2/NDF : 219.8/116

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1475.241+/-0.259 χ^2/NDF : 3548411.2/32

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1435.448+/-0.252 χ^2/NDF : 4747995.9/35

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

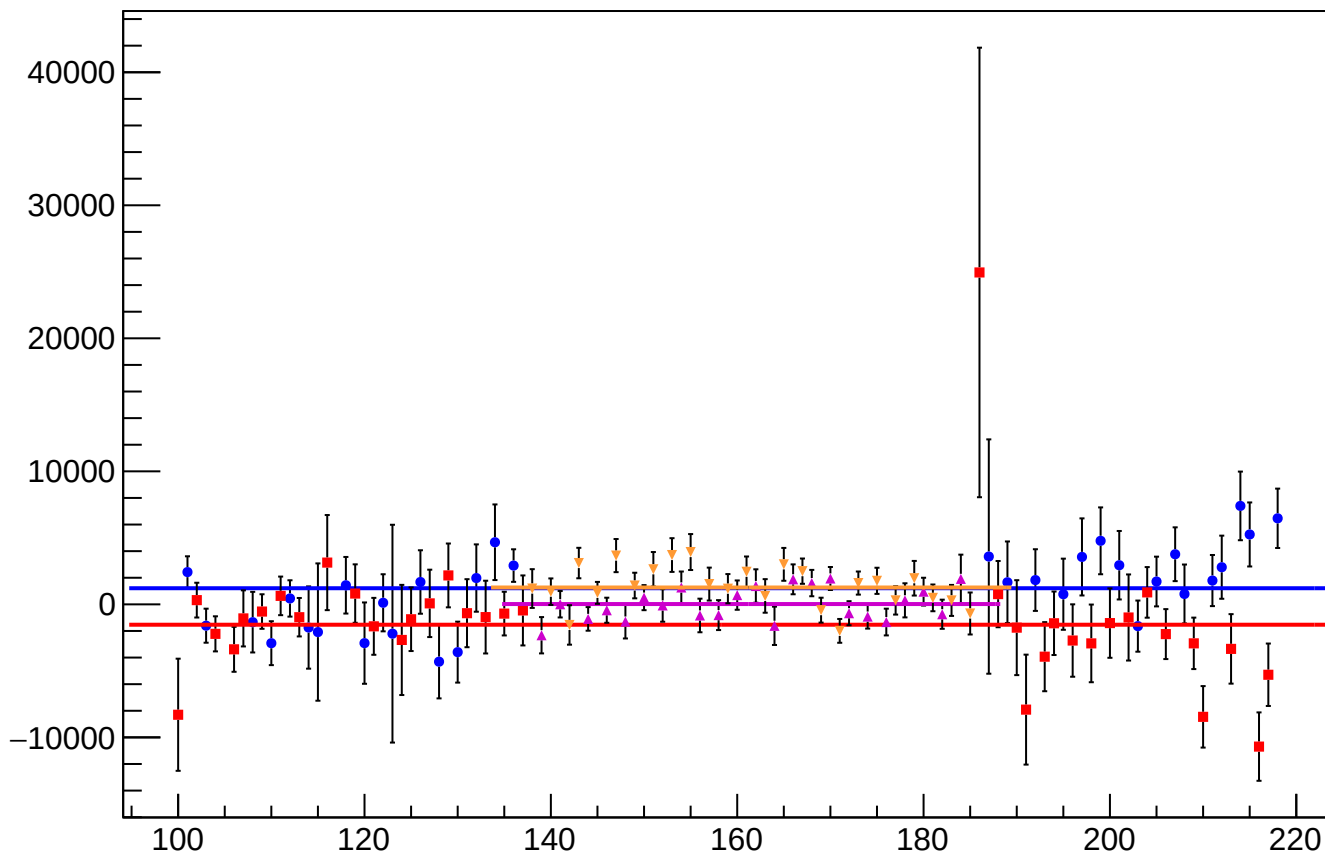
Right: 1454.804+/-0.180 χ^2/NDF : 8308569.2/68

In: 1072.427+/-0.135 χ^2/NDF : 7514378.8/55

Out: 1063.258+/-0.131 χ^2/NDF : 8598862.5/60

All: 1067.729+/-0.094 χ^2/NDF : 16115613.7/112

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 1212.278+/-367.214 χ^2/NDF : 51.1/32

Left Out: 1267.344+/-220.133 χ^2/NDF : 44.9/24

Right Out: -1530.946+/-357.537 χ^2/NDF : 49.4/35

Left In: 23.478+/-225.490 χ^2/NDF : 27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

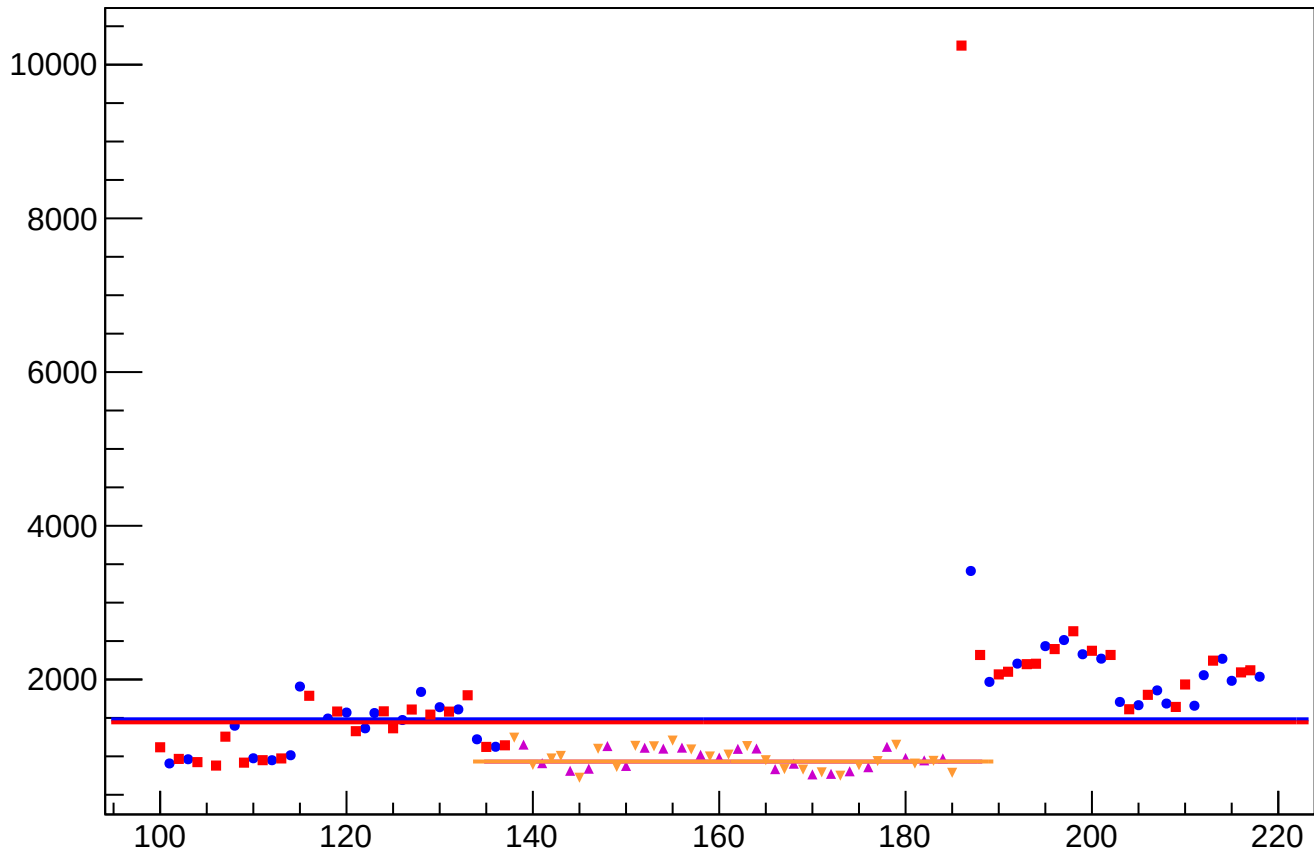
Right: -195.955+/-256.169 χ^2/NDF : 129.2/68

In: 348.993+/-192.154 χ^2/NDF : 85.9/55

Out: 498.154+/-187.452 χ^2/NDF : 138.8/60

All: 425.421+/-134.180 χ^2/NDF : 225.0/116

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1481.936+/-0.260 χ^2/NDF : 3524070.2/32

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1442.551+/-0.253 χ^2/NDF : 4718111.7/35

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

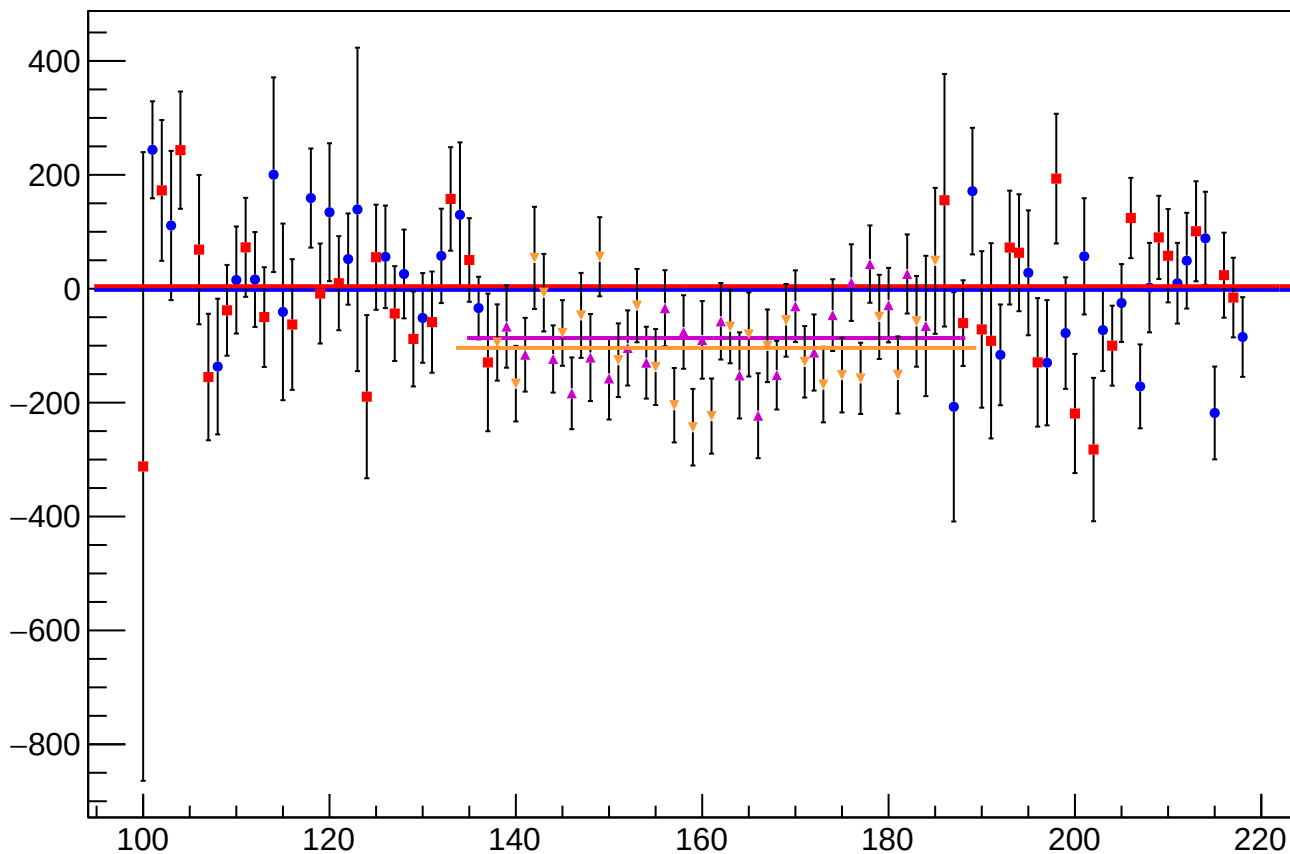
Right: 1461.718+/-0.181 χ^2/NDF : 8253992.1/68

In: 1082.214+/-0.136 χ^2/NDF : 7411846.1/55

Out: 1072.893+/-0.133 χ^2/NDF : 8496248.0/60

All: 1077.438+/-0.095 χ^2/NDF : 15910505.3/117

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: -1.939 ± 15.514 $\chi^2/\text{NDF}: 44.1/32$

Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$

Right Out: 4.433 ± 15.669 $\chi^2/\text{NDF}: 45.0/35$

Left In: -86.542 ± 14.120 $\chi^2/\text{NDF}: 21.4/22$

Left: -95.520 ± 9.811 $\chi^2/\text{NDF}: 52.1/47$

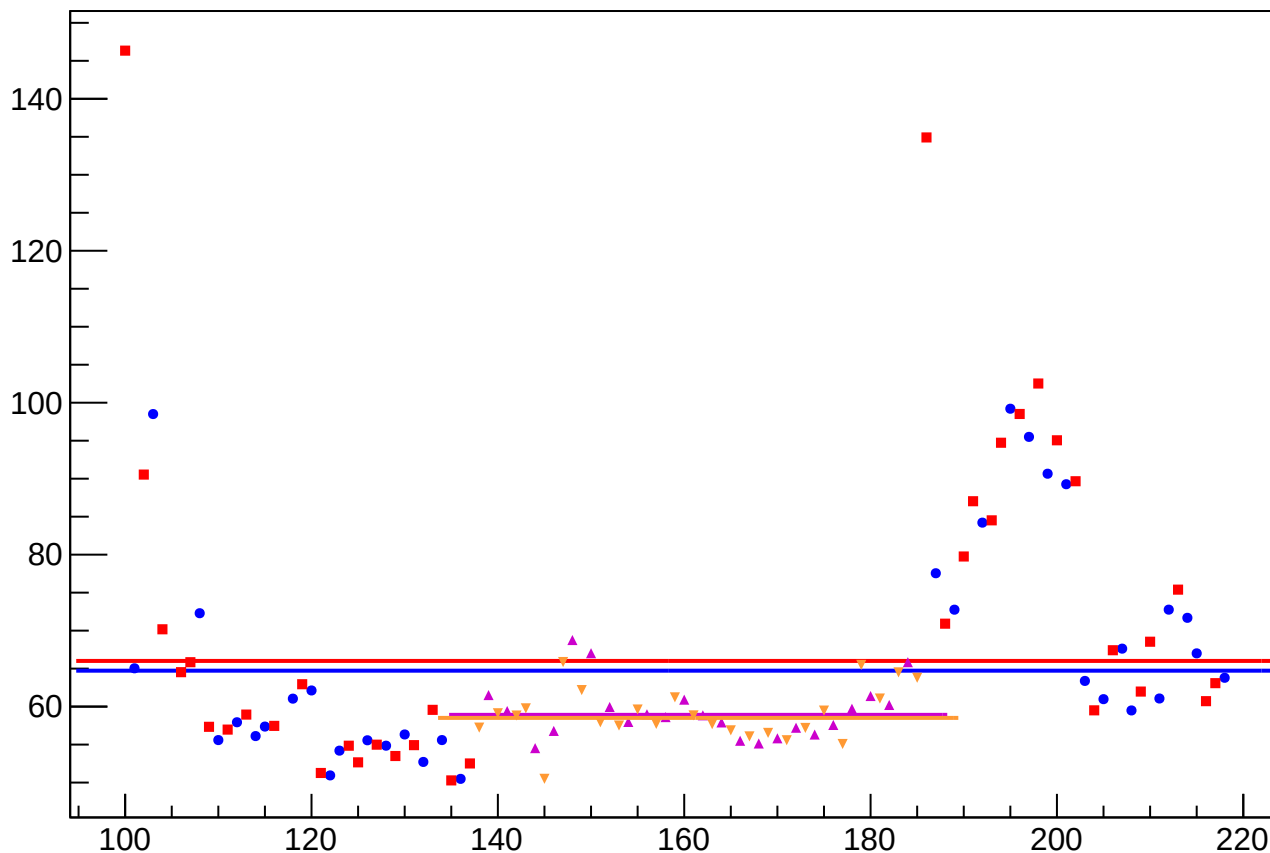
Right: 1.215 ± 11.025 $\chi^2/\text{NDF}: 89.1/68$

In: -48.212 ± 10.442 $\chi^2/\text{NDF}: 81.7/55$

Out: -57.189 ± 10.289 $\chi^2/\text{NDF}: 102.1/60$

All: -52.767 ± 7.329 $\chi^2/\text{NDF}: 184.2/116$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.728 $\pm$ 0.011 χ^2 /NDF: 1295372.8/32

Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF:123221.6/24

Right Out: 66.011 $\pm$ 0.011 χ^2 /NDF: 1687213.1/35

Left In: 58.913 $\pm$ 0.010 χ^2 /NDF:109968.0/22

Left: 58.706 $\pm$ 0.007 χ^2 /NDF: 234021.7/47

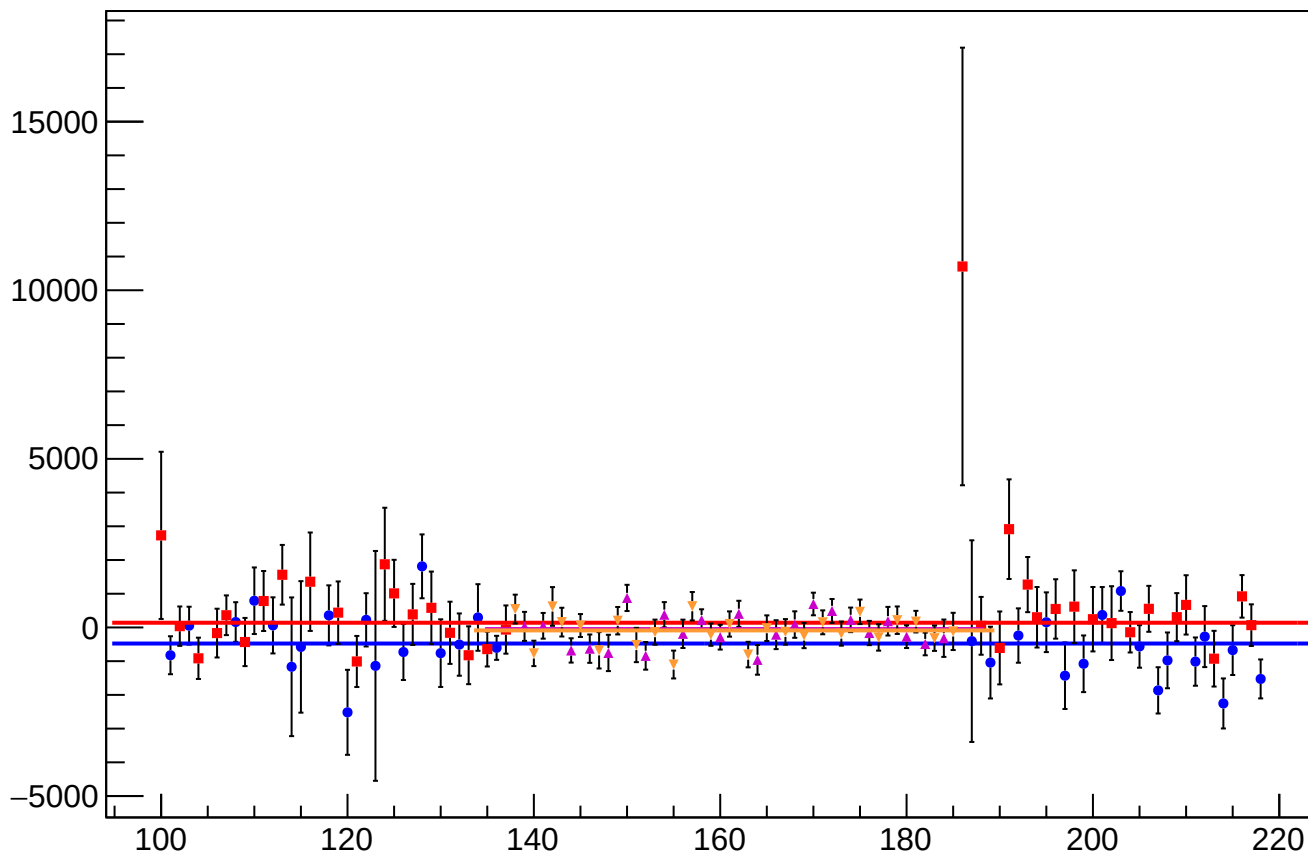
Right: 65.363 $\pm$ 0.008 χ^2 /NDF: 2989360.9/68

In: 61.548 $\pm$ 0.007 χ^2 /NDF:1558994.0/55

Out: 61.746 $\pm$ 0.007 χ^2 /NDF:2070956.8/60

All: 61.648 $\pm$ 0.005 χ^2 /NDF: 3630316.9/116

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -476.791+/-133.697 χ^2 /NDF: 40.3/32

Left Out: -87.459+/-78.556 χ^2 /NDF:27.7/24

Right Out: 139.714+/-135.507 χ^2 /NDF: 30.3/35

Left In: -48.742+/-80.548 χ^2 /NDF:35.3/22

Left: -68.585+/-56.239 χ^2 /NDF: 63.2/47

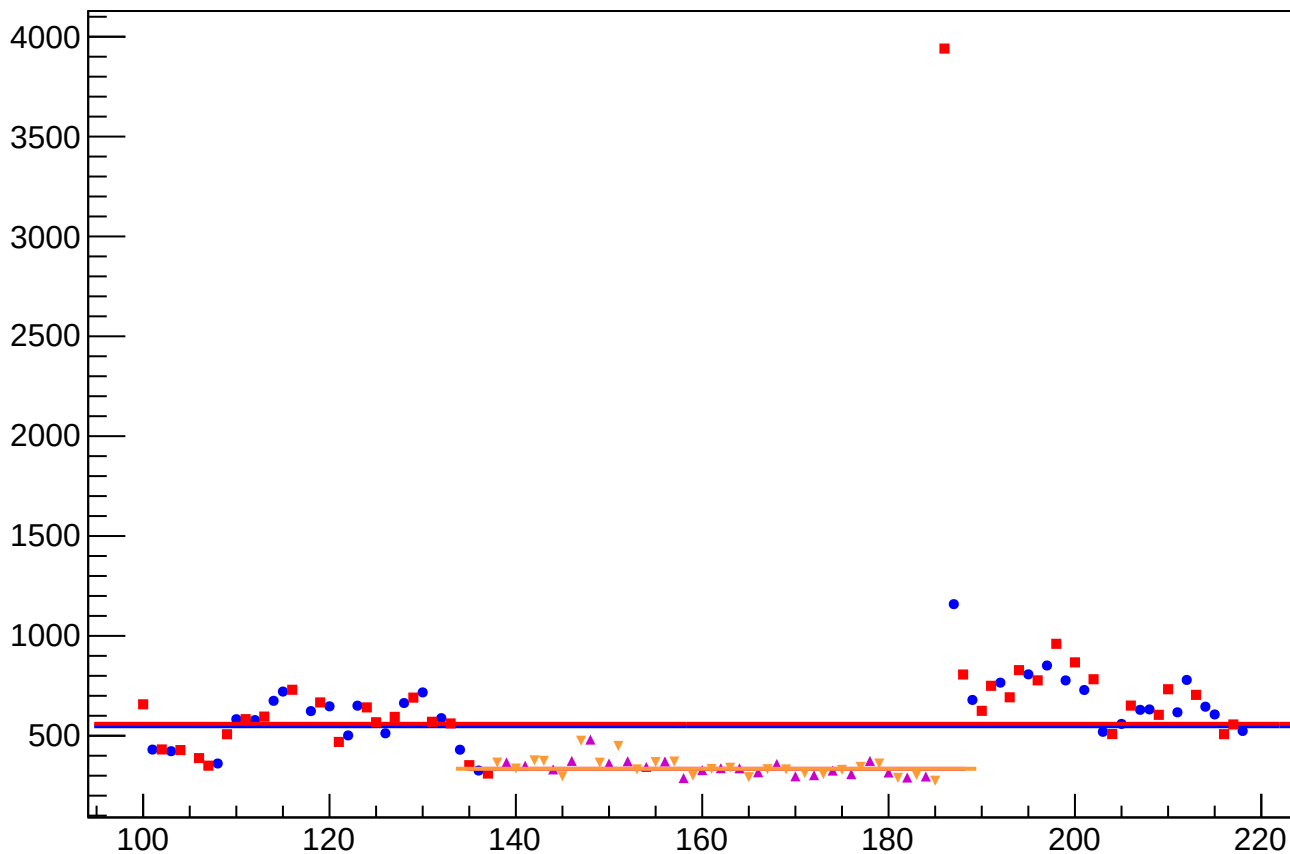
Right: -172.683+/-95.172 χ^2 /NDF: 81.2/68

In: -162.733+/-68.994 χ^2 /NDF:83.2/55

Out: -30.315+/-67.962 χ^2 /NDF:60.2/60

All: -95.527+/-48.417 χ^2 /NDF: 145.3/116

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 547.714 $\pm$ 0.095 χ^2 /NDF: 2472732.0/32

Left Out: 334.749 $\pm$ 0.056 χ^2 /NDF: 491370.4/24

Right Out: 559.719 $\pm$ 0.096 χ^2 /NDF: 3141473.8/35

Left In: 334.147 $\pm$ 0.057 χ^2 /NDF: 397200.6/22

Left: 334.455 $\pm$ 0.040 χ^2 /NDF: 888628.3/47

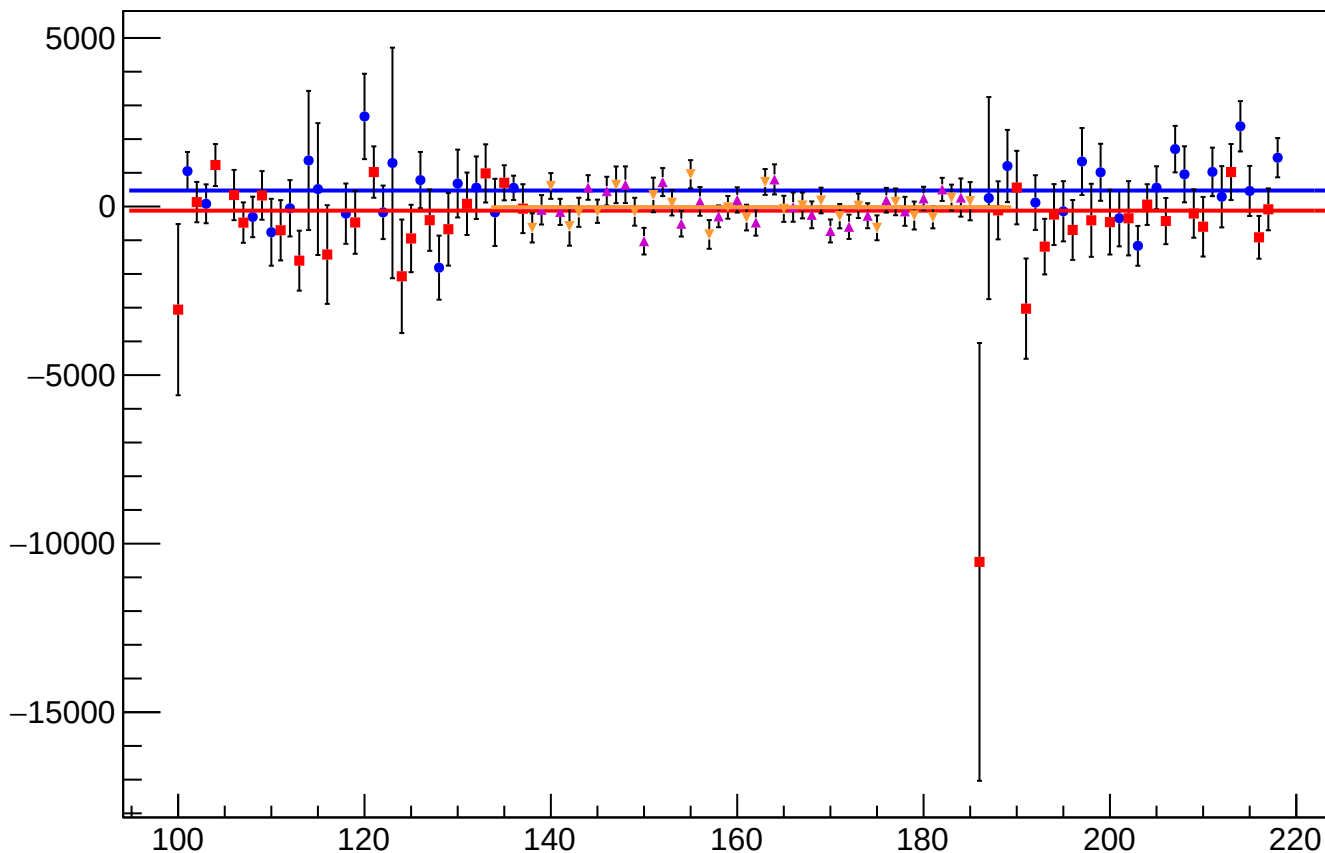
Right: 553.636 $\pm$ 0.067 χ^2 /NDF: 5622159.1/68

In: 391.021 $\pm$ 0.049 χ^2 /NDF: 6614263.8/55

Out: 391.338 $\pm$ 0.048 χ^2 /NDF: 7758797.7/60

All: 391.182 $\pm$ 0.034 χ^2 /NDF: 14373082.9/115

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 474.902 ± 134.940 χ^2/NDF : 40.5/32

Left Out: -20.895 ± 79.812 χ^2/NDF : 27.2/24

Right Out: -121.865 ± 136.823 χ^2/NDF : 33.5/35

Left In: -31.800 ± 81.839 χ^2/NDF : 34.0/22

Left: -26.211 ± 57.139 χ^2/NDF : 61.3/47

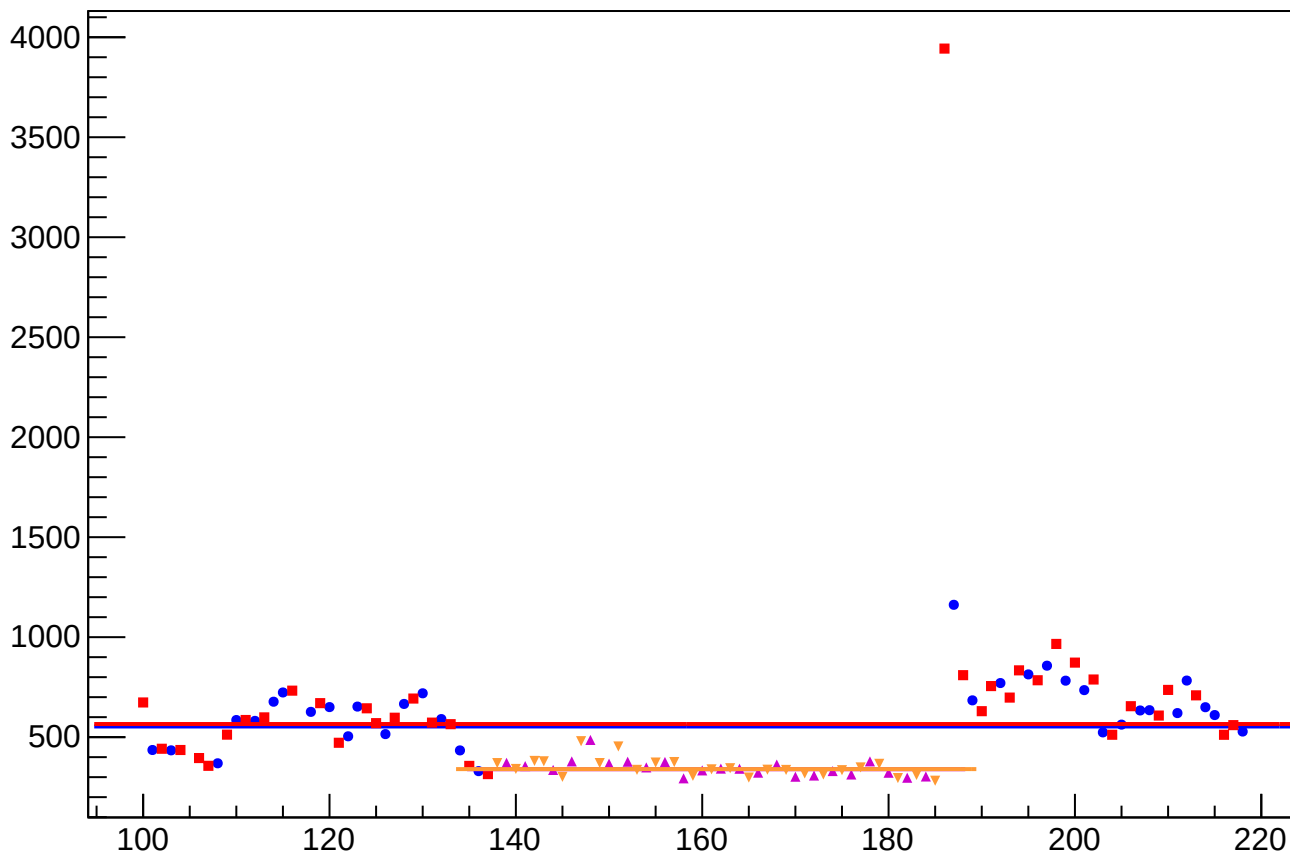
Right: 180.655 ± 96.076 χ^2/NDF : 83.7/68

In: 104.459 ± 69.976 χ^2/NDF : 84.9/55

Out: -46.529 ± 68.940 χ^2/NDF : 61.1/60

All: 27.840 ± 49.110 χ^2/NDF : 148.4/116

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 553.410 $\pm$ 0.095 χ^2 /NDF: 2404311.1/32

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 565.686 $\pm$ 0.097 χ^2 /NDF: 3071430.8/35

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

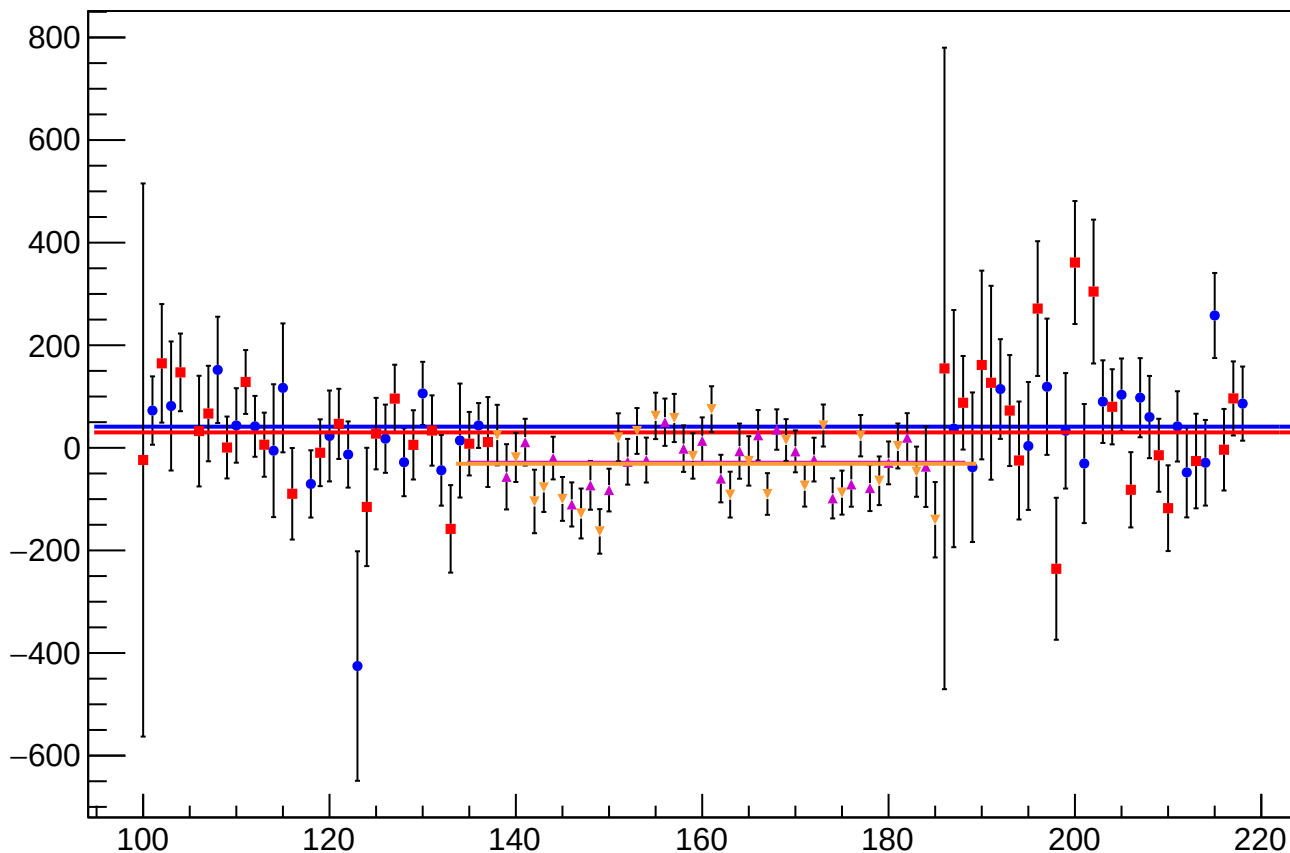
Right: 559.463 $\pm$ 0.068 χ^2 /NDF: 5483903.9/68

In: 397.112 $\pm$ 0.049 χ^2 /NDF: 6454307.9/55

Out: 397.474 $\pm$ 0.049 χ^2 /NDF: 7591786.4/60

All: 397.296 $\pm$ 0.035 χ^2 /NDF: 14046121.6/117

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 41.245 $\pm$ 14.033 χ^2 /NDF: 26.2/32

Left Out: -31.063 $\pm$ 9.170 χ^2 /NDF:52.6/24

Right Out: 30.083 $\pm$ 14.084 χ^2 /NDF: 44.6/35

Left In: -29.055 $\pm$ 9.449 χ^2 /NDF:22.4/22

Left: -30.089 $\pm$ 6.581 χ^2 /NDF: 75.1/47

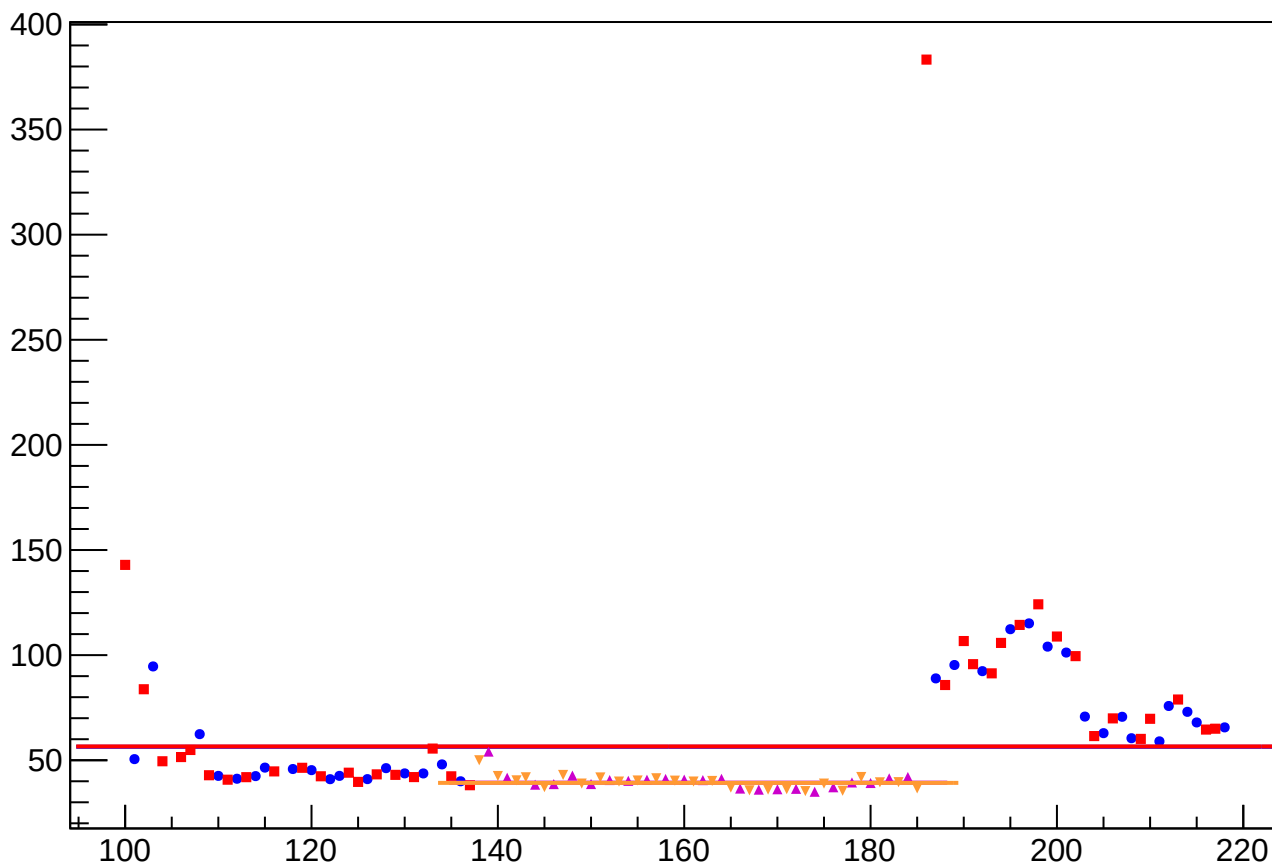
Right: 35.684 $\pm$ 9.941 χ^2 /NDF: 71.1/68

In: -7.123 $\pm$ 7.838 χ^2 /NDF:66.0/55

Out: -12.859 $\pm$ 7.684 χ^2 /NDF:110.4/60

All: -10.048 $\pm$ 5.487 χ^2 /NDF: 176.6/116

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 56.410 $\pm$ 0.010 χ^2 /NDF: 3562278.5/32

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 56.567 $\pm$ 0.010 χ^2 /NDF: 4568923.4/35

Left In: 39.338 $\pm$ 0.007 χ^2 /NDF: 215671.3/22

Left: 39.285 $\pm$ 0.005 χ^2 /NDF: 417755.0/47

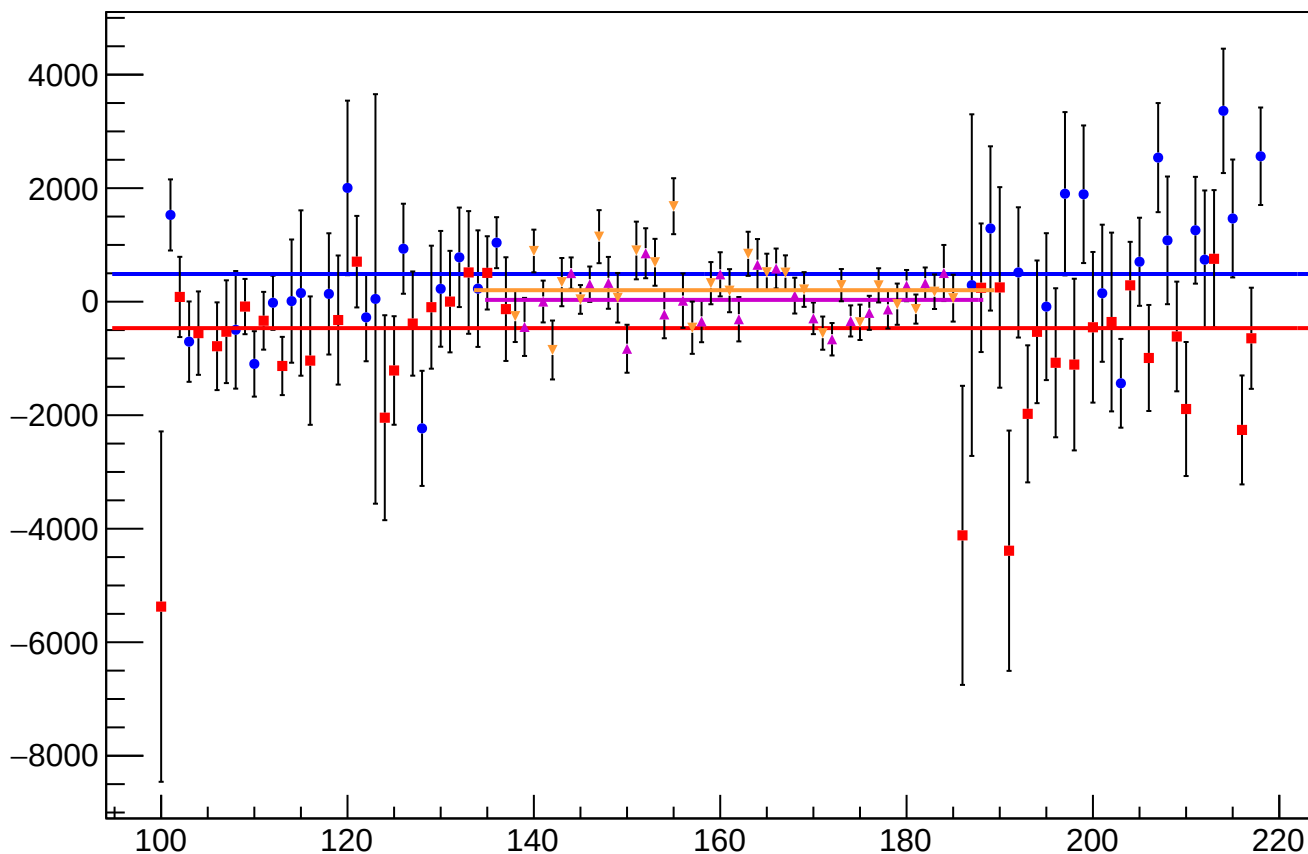
Right: 56.489 $\pm$ 0.007 χ^2 /NDF: 8131326.7/68

In: 44.664 $\pm$ 0.006 χ^2 /NDF: 5814552.0/55

Out: 44.395 $\pm$ 0.005 χ^2 /NDF: 6898179.2/60

All: 44.527 $\pm$ 0.004 χ^2 /NDF: 12713935.7/116

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 487.713 $\pm$ 154.557 χ^2 /NDF: 54.9/32

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -465.903 $\pm$ 151.778 χ^2 /NDF: 28.3/35

Left In: 31.548 $\pm$ 72.100 χ^2 /NDF:33.4/22

Left: 118.965 $\pm$ 50.380 χ^2 /NDF: 81.1/47

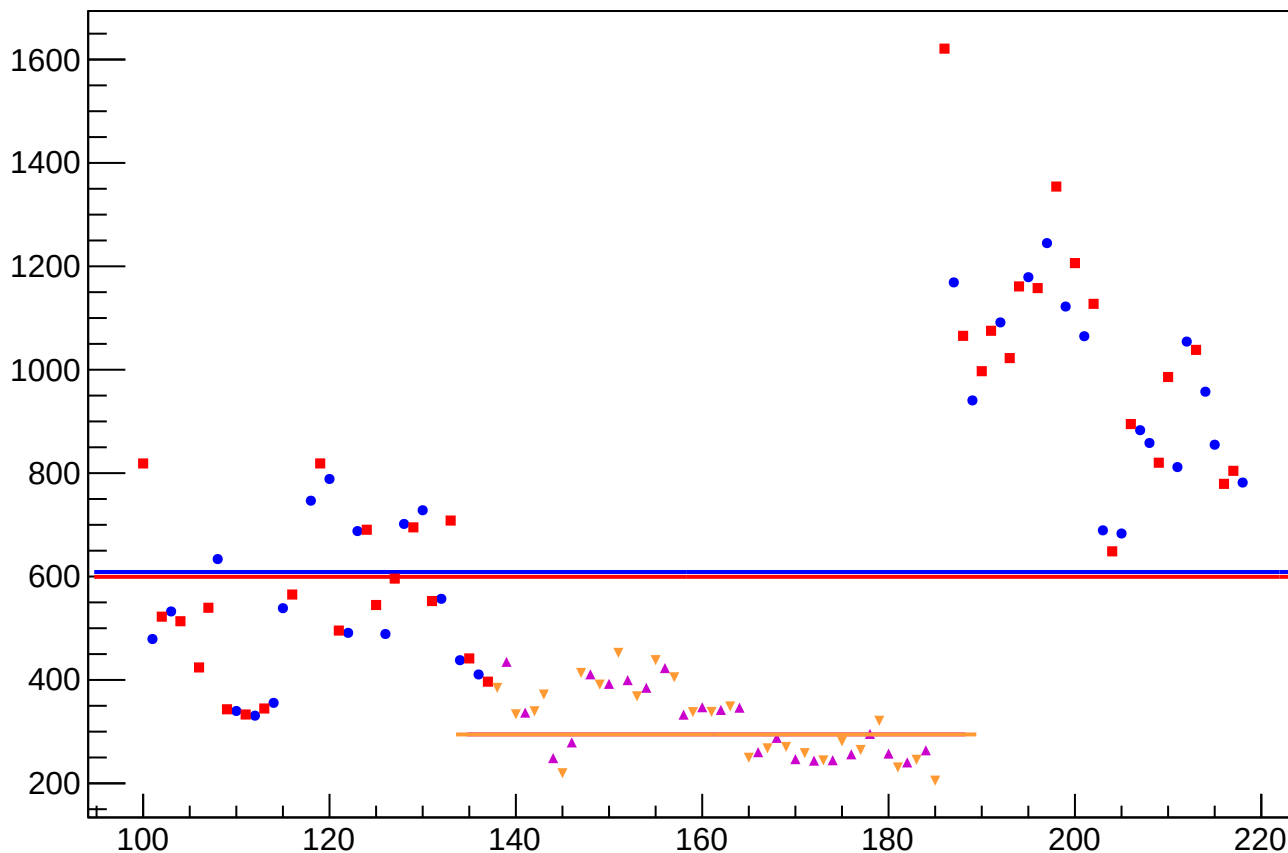
Right: 2.257 $\pm$ 108.292 χ^2 /NDF: 102.6/68

In: 113.076 $\pm$ 65.340 χ^2 /NDF:95.4/55

Out: 83.979 $\pm$ 63.884 χ^2 /NDF:89.0/60

All: 98.200 $\pm$ 45.679 χ^2 /NDF: 184.6/116

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 608.780+/-0.109 χ^2/NDF : 4996409.5/32

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 599.398+/-0.107 χ^2/NDF : 6103784.0/35

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

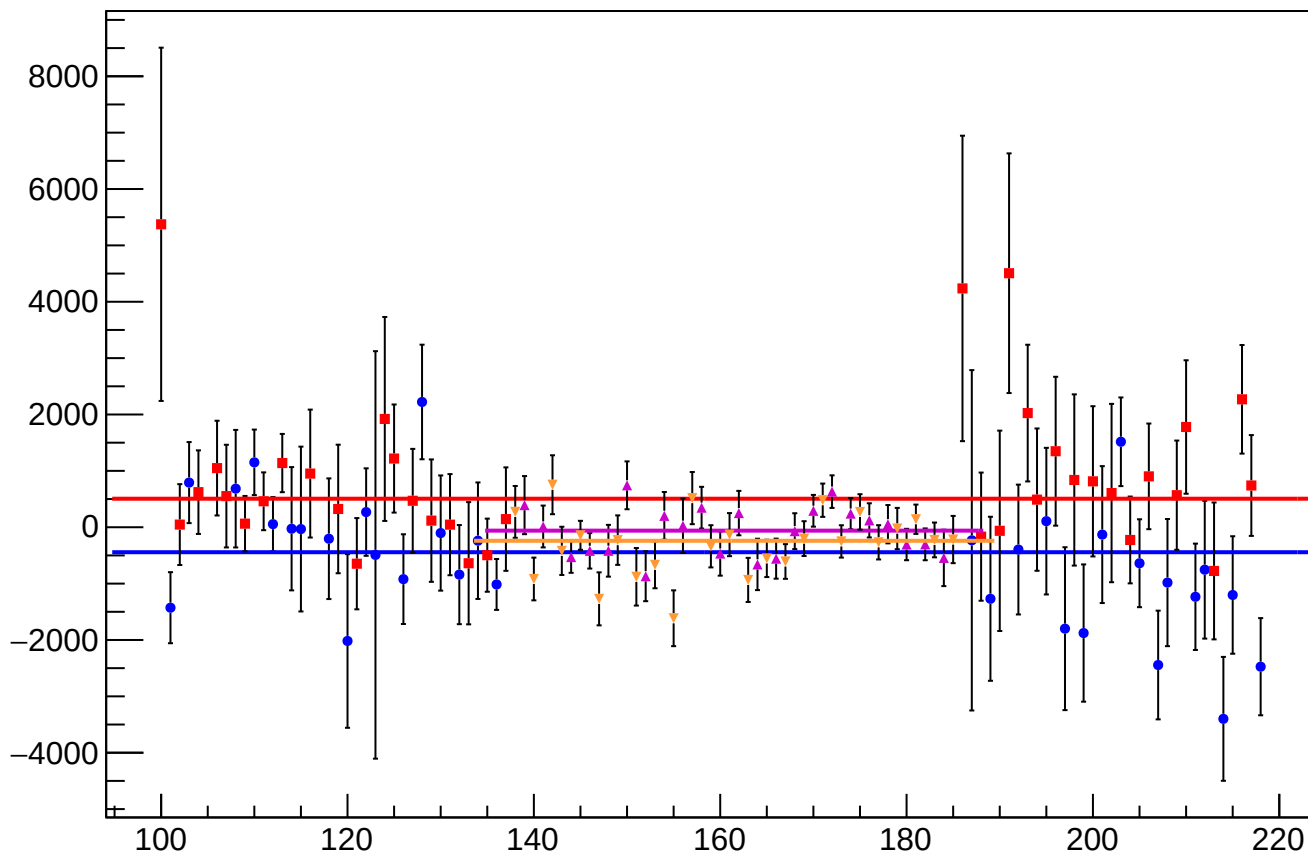
Right: 604.004+/-0.077 χ^2/NDF : 11103945.2/68

In: 350.852+/-0.046 χ^2/NDF : 13075820.7/55

Out: 348.590+/-0.045 χ^2/NDF : 14421309.2/60

All: 349.696+/-0.032 χ^2/NDF : 27498354.7/117

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -443.076+/-155.401 χ^2/NDF : 54.2/32

Left Out: -240.357+/-71.100 χ^2/NDF : 42.9/24

Right Out: 506.046+/-153.092 χ^2/NDF : 27.8/35

Left In: -60.330+/-72.788 χ^2/NDF : 30.9/22

Left: -152.455+/-50.862 χ^2/NDF : 77.0/47

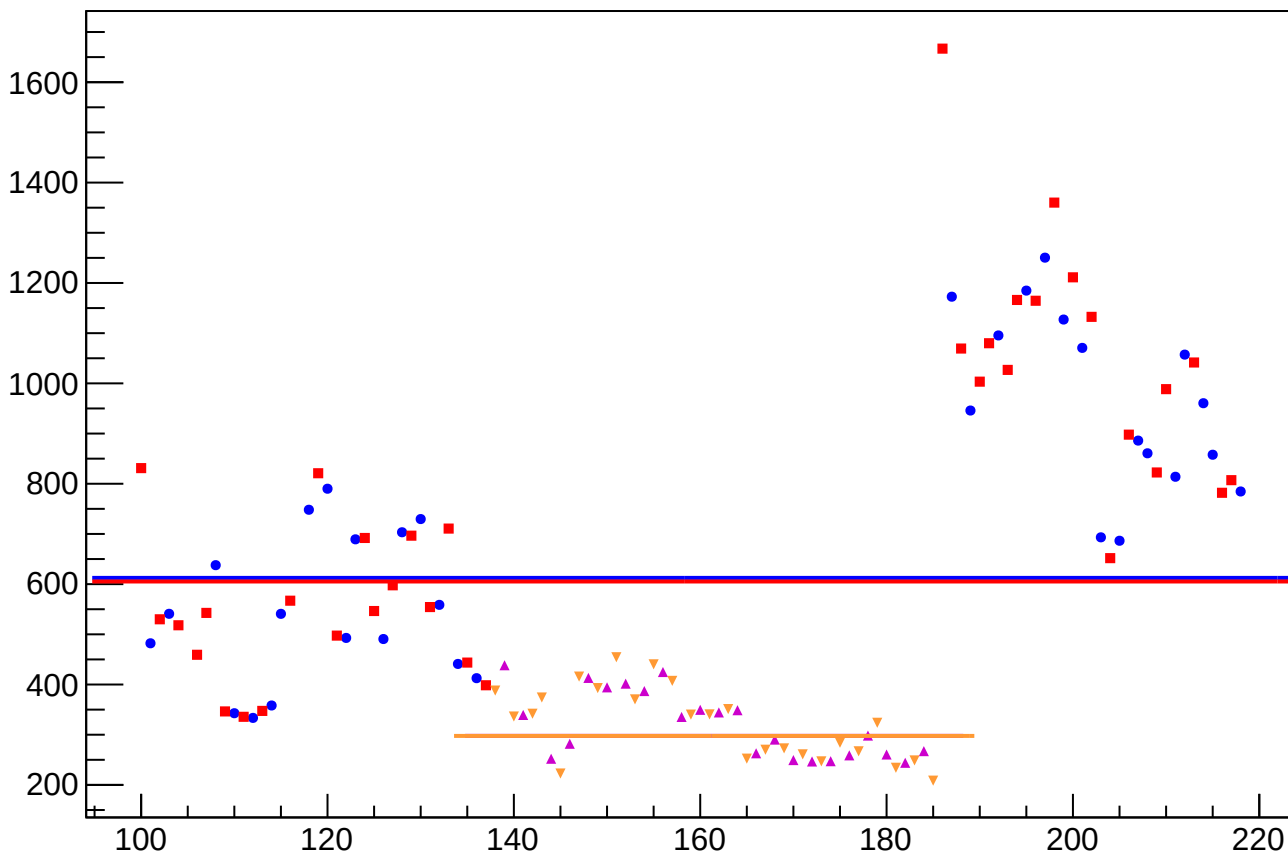
Right: 38.590+/-109.059 χ^2/NDF : 100.9/68

In: -129.192+/-65.916 χ^2/NDF : 90.1/55

Out: -107.926+/-64.485 χ^2/NDF : 90.2/60

All: -118.326+/-46.095 χ^2/NDF : 180.4/116

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 612.445 $\pm$ 0.110 χ^2 /NDF: 4963532.8/32

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF:1637757.8/24

Right Out: 605.278 $\pm$ 0.108 χ^2 /NDF: 6028286.9/35

Left In: 297.699 $\pm$ 0.051 χ^2 /NDF:1266306.2/22

Left: 297.655 $\pm$ 0.036 χ^2 /NDF: 2904065.4/47

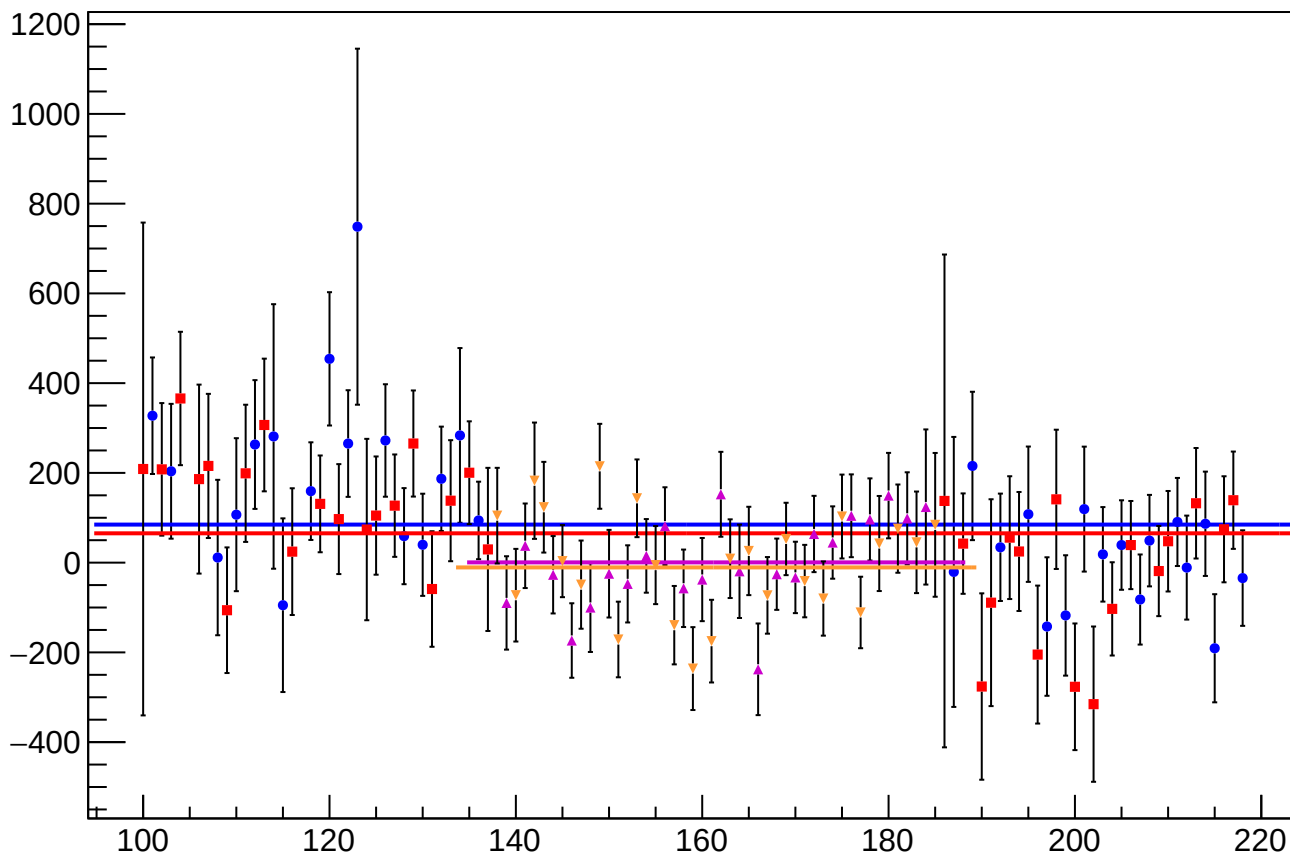
Right: 608.808 $\pm$ 0.077 χ^2 /NDF: 10993978.8/68

In: 354.327 $\pm$ 0.047 χ^2 /NDF:12958098.5/55

Out: 352.201 $\pm$ 0.046 χ^2 /NDF:14310513.0/60

All: 353.241 $\pm$ 0.033 χ^2 /NDF: 27269675.3/117

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 84.796 +/- 22.174 χ^2/NDF : 39.3/32

Left Out: -10.667 +/- 18.610 χ^2/NDF : 36.3/24

Right Out: 65.350 +/- 22.639 χ^2/NDF : 39.2/35

Left In: 0.575 +/- 19.091 χ^2/NDF : 23.8/22

Left: -5.190 +/- 13.326 χ^2/NDF : 60.3/47

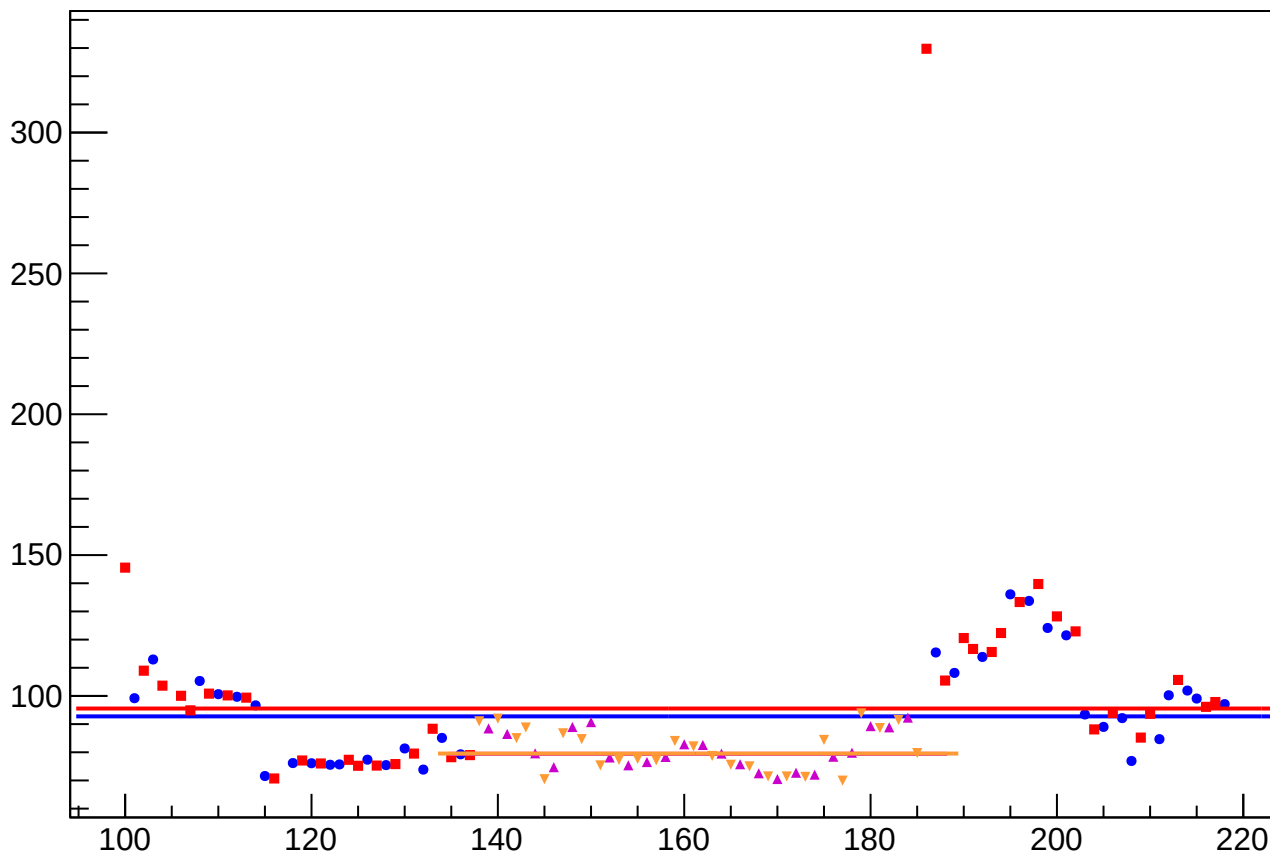
Right: 75.275 +/- 15.841 χ^2/NDF : 78.9/68

In: 36.429 +/- 14.468 χ^2/NDF : 71.4/55

Out: 19.985 +/- 14.376 χ^2/NDF : 82.3/60

All: 28.155 +/- 10.198 χ^2/NDF : 154.3/116

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 92.745 $\pm$ 0.016 χ^2 /NDF: 1095164.9/32

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF: 309075.2/24

Right Out: 95.532 $\pm$ 0.016 χ^2 /NDF: 1536245.1/35

Left In: 79.436 $\pm$ 0.013 χ^2 /NDF: 212440.1/22

Left: 79.495 $\pm$ 0.009 χ^2 /NDF: 521552.2/47

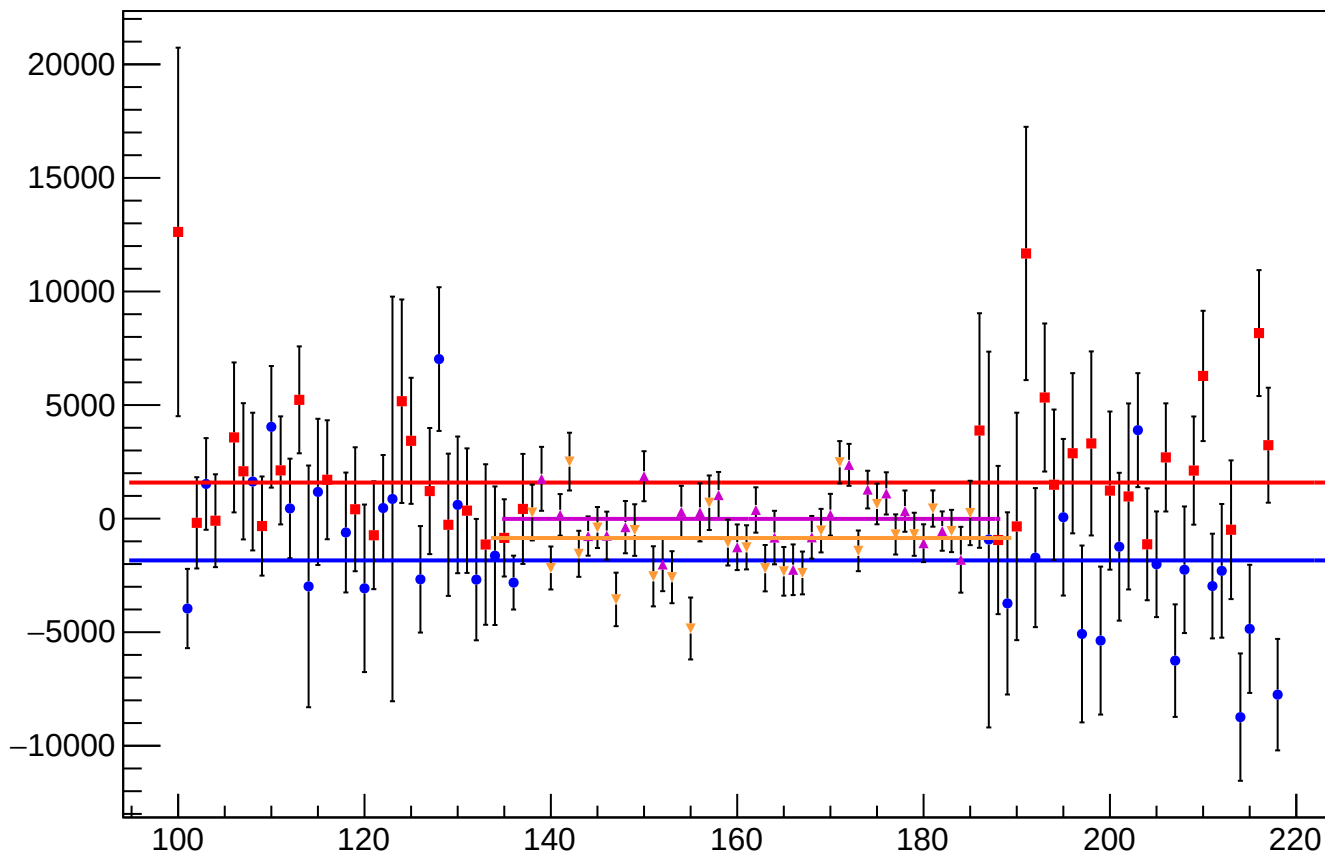
Right: 94.110 $\pm$ 0.011 χ^2 /NDF: 2646879.0/68

In: 85.102 $\pm$ 0.010 χ^2 /NDF: 1721372.2/55

Out: 85.995 $\pm$ 0.010 χ^2 /NDF: 2440056.1/60

All: 85.552 $\pm$ 0.007 χ^2 /NDF: 4165261.4/116

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1839.713+/-456.090 χ^2/NDF : 47.4/32

Left Out: -854.130+/-204.090 χ^2/NDF : 56.0/24

Right Out: 1588.308+/-467.477 χ^2/NDF : 29.2/35

Left In: -11.687+/-210.073 χ^2/NDF : 31.2/22

Left: -445.076+/-146.383 χ^2/NDF : 95.5/47

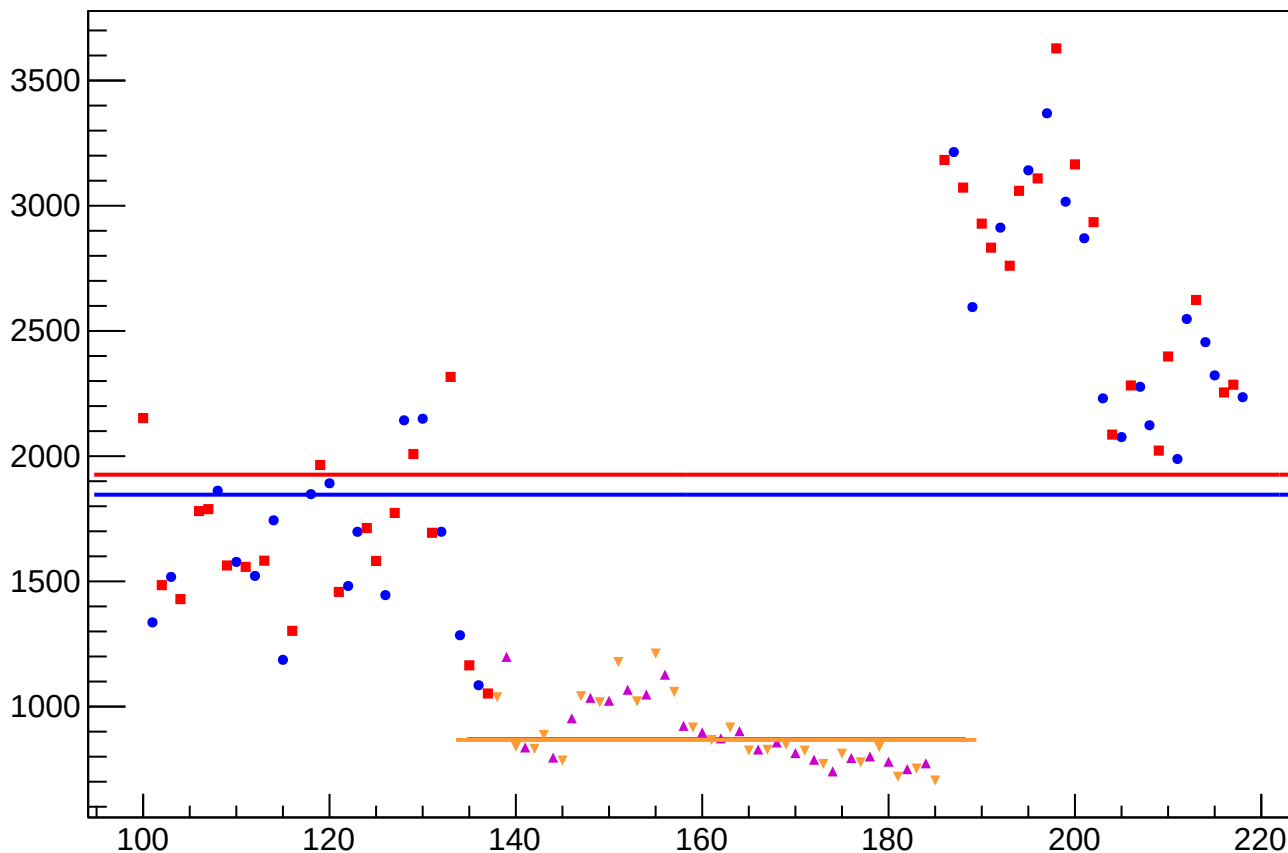
Right: -167.962+/-326.456 χ^2/NDF : 104.1/68

In: -331.625+/-190.806 χ^2/NDF : 91.8/55

Out: -463.126+/-187.042 χ^2/NDF : 108.1/60

All: -398.686+/-133.570 χ^2/NDF : 200.1/116

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1846.213+/-0.323 χ^2/NDF : 3297835.2/32

Left Out: 866.893+/-0.144 χ^2/NDF : 661712.5/24

Right Out: 1926.146+/-0.331 χ^2/NDF : 3404627.8/35

Left In: 869.569+/-0.149 χ^2/NDF : 582301.2/22

Left: 868.192+/-0.104 χ^2/NDF : 1244180.7/47

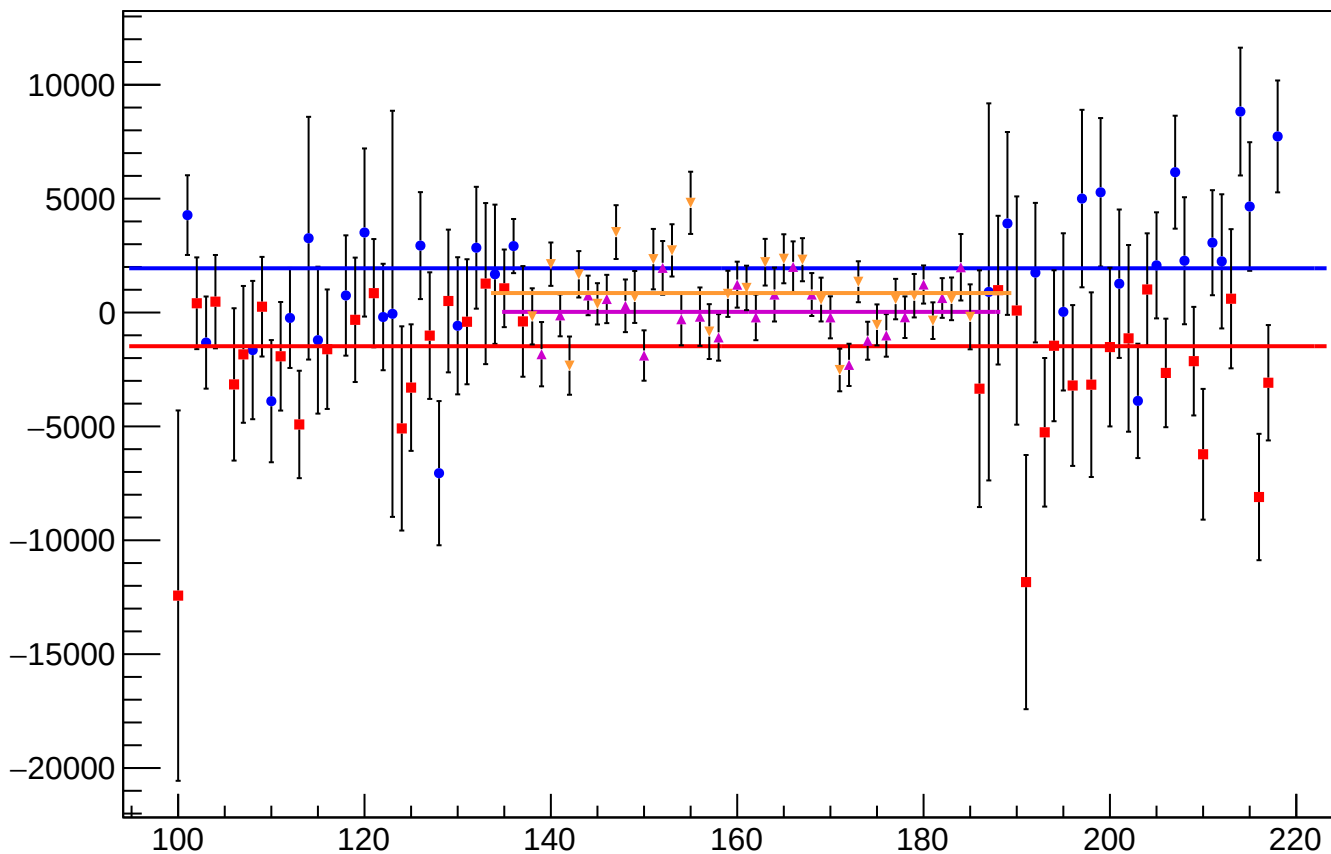
Right: 1885.194+/-0.231 χ^2/NDF : 6732420.8/68

In: 1040.499+/-0.135 χ^2/NDF : 11445780.6/55

Out: 1036.466+/-0.132 χ^2/NDF : 12691016.0/60

All: 1038.443+/-0.094 χ^2/NDF : 24137252.3/117

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1943.278 $\pm$ 456.825 χ^2 /NDF: 46.8/32

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF:54.1/24

Right Out: -1479.015 $\pm$ 468.309 χ^2 /NDF: 29.1/35

Left In: 28.553 $\pm$ 211.034 χ^2 /NDF:29.7/22

Left: 454.007 $\pm$ 147.061 χ^2 /NDF: 91.7/47

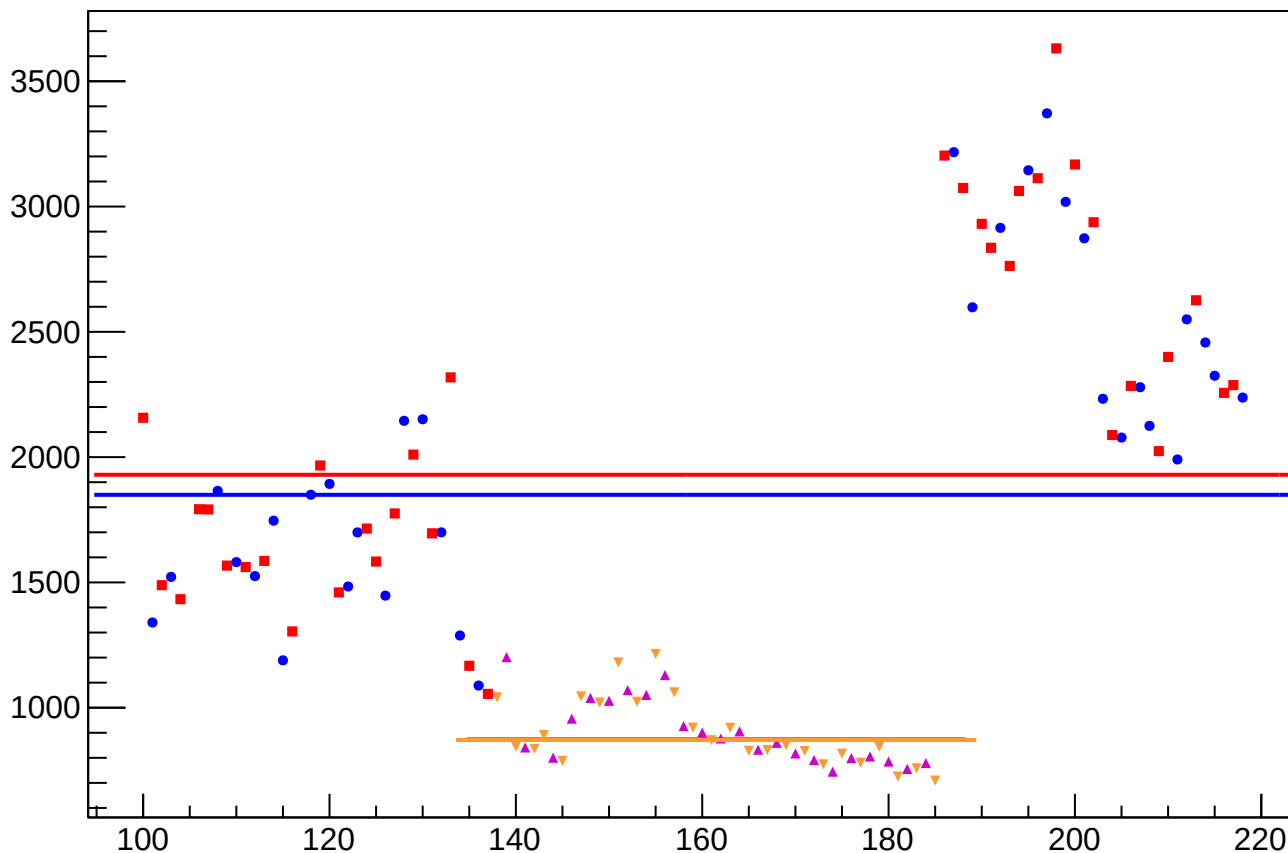
Right: 274.608 $\pm$ 327.009 χ^2 /NDF: 103.3/68

In: 365.301 $\pm$ 191.580 χ^2 /NDF:91.1/55

Out: 480.088 $\pm$ 187.831 χ^2 /NDF:104.0/60

All: 423.828 $\pm$ 134.122 χ^2 /NDF: 195.3/116

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1849.607 $\pm$ 0.323 χ^2 /NDF: 3283687.7/32

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1929.646 $\pm$ 0.331 χ^2 /NDF: 3394537.7/35

Left In: 873.675 $\pm$ 0.149 χ^2 /NDF: 573822.5/22

Left: 872.355 $\pm$ 0.104 χ^2 /NDF: 1225725.6/47

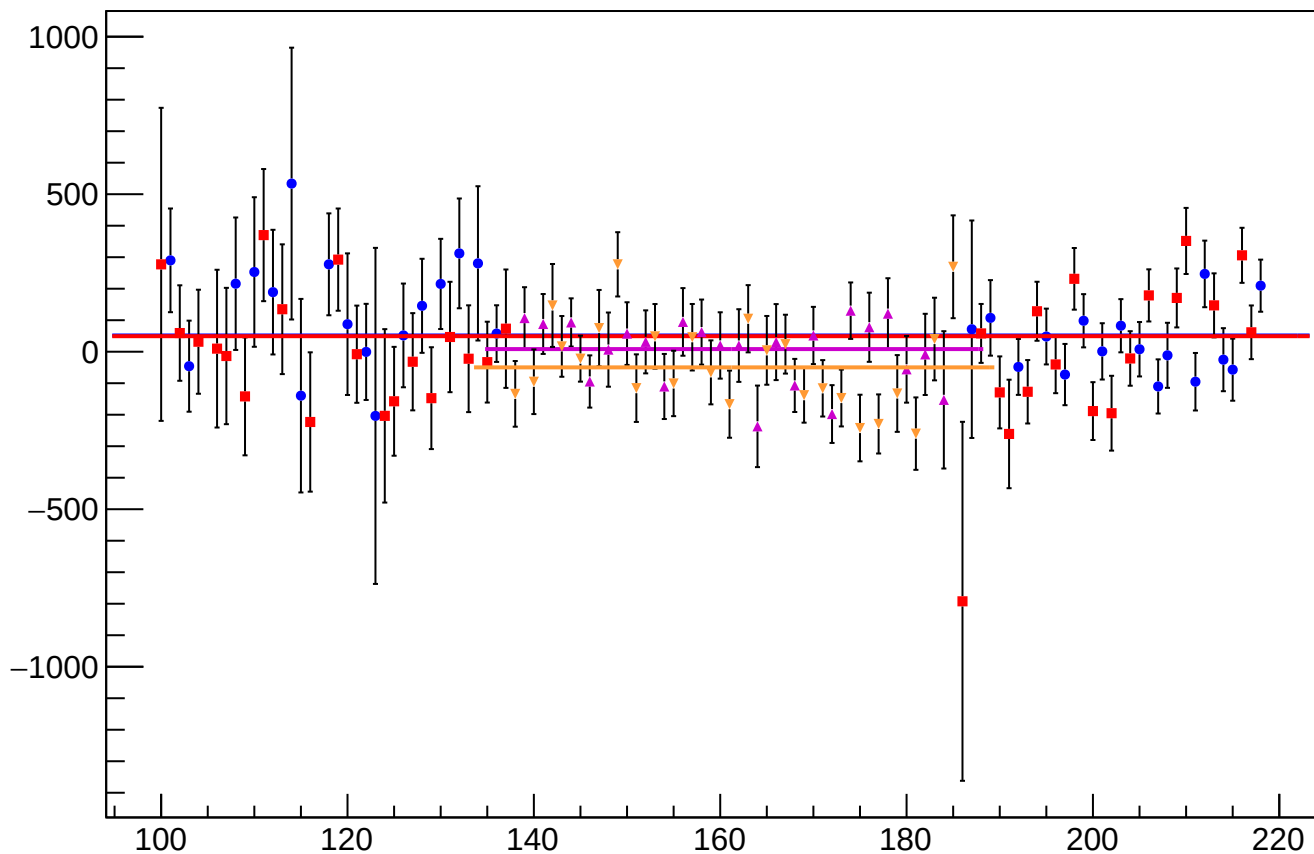
Right: 1888.633 $\pm$ 0.231 χ^2 /NDF: 6708160.9/68

In: 1045.315 $\pm$ 0.135 χ^2 /NDF: 11380038.7/55

Out: 1041.394 $\pm$ 0.133 χ^2 /NDF: 12620749.3/60

All: 1043.316 $\pm$ 0.095 χ^2 /NDF: 24001215.1/117

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 51.517 ± 20.669 χ^2/NDF : 32.7/32

Left Out: -49.717 ± 20.580 χ^2/NDF : 39.4/24

Right Out: 49.245 ± 20.919 χ^2/NDF : 62.2/35

Left In: 8.343 ± 21.271 χ^2/NDF : 22.0/22

Left: -21.646 ± 14.791 χ^2/NDF : 65.3/47

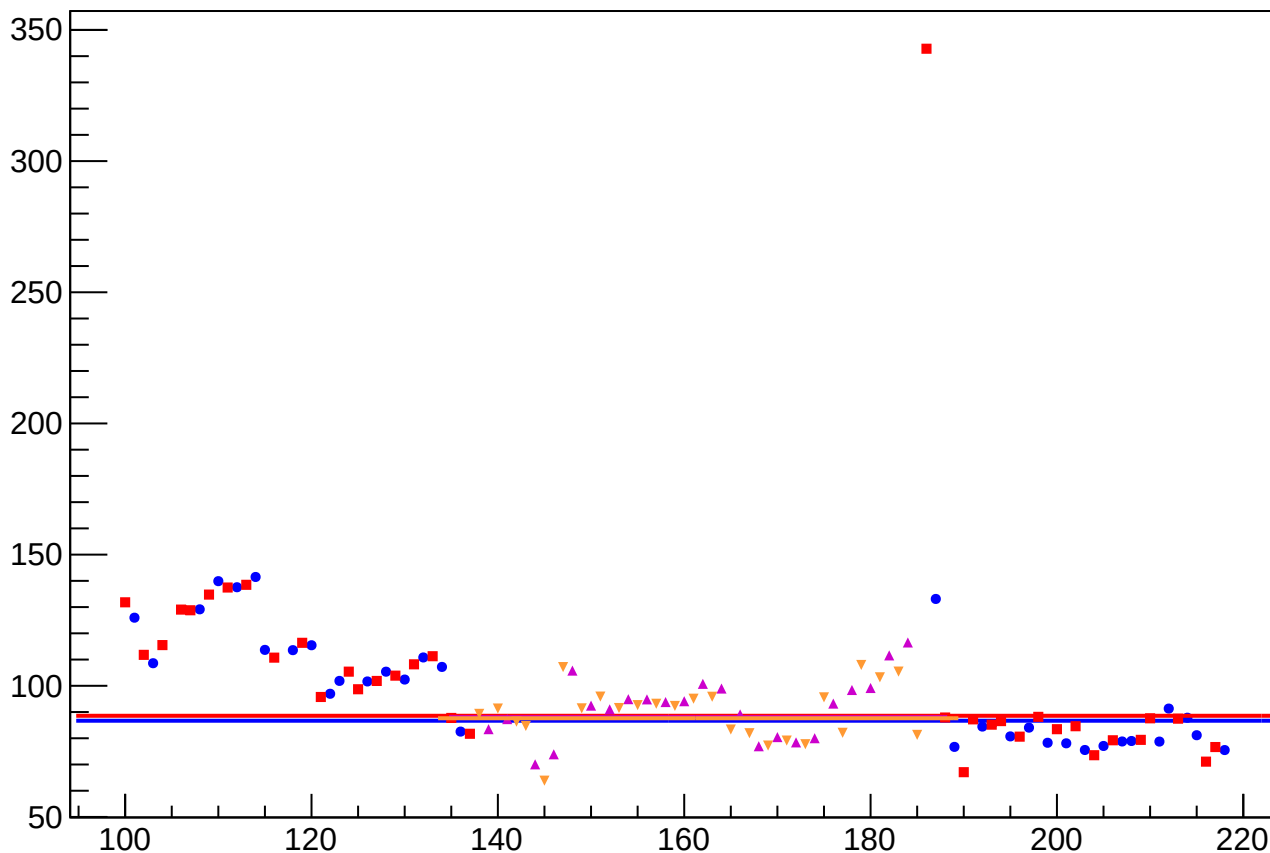
Right: 50.395 ± 14.703 χ^2/NDF : 94.8/68

In: 30.549 ± 14.824 χ^2/NDF : 56.8/55

Out: -1.045 ± 14.671 χ^2/NDF : 112.9/60

All: 14.588 ± 10.427 χ^2/NDF : 172.0/116

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 86.686 $\pm$ 0.015 χ^2 /NDF: 999315.3/32

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 88.574 $\pm$ 0.015 χ^2 /NDF: 1499527.0/35

Left In: 88.032 $\pm$ 0.015 χ^2 /NDF: 523710.9/22

Left: 87.822 $\pm$ 0.010 χ^2 /NDF: 1078779.2/47

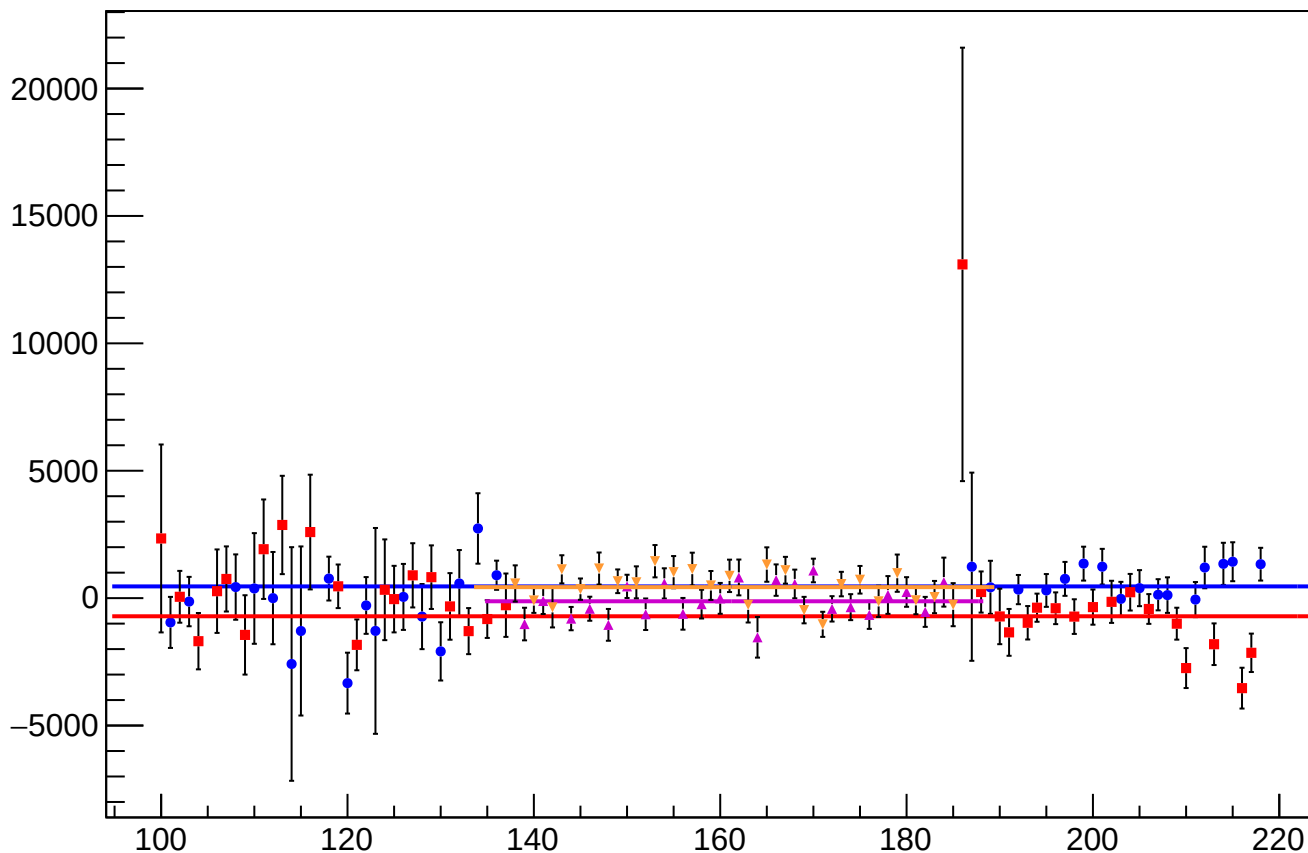
Right: 87.619 $\pm$ 0.010 χ^2 /NDF: 2507084.3/68

In: 87.340 $\pm$ 0.010 χ^2 /NDF: 1527146.3/55

Out: 88.092 $\pm$ 0.010 χ^2 /NDF: 2056306.4/60

All: 87.720 $\pm$ 0.007 χ^2 /NDF: 3586053.9/116

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 460.518+/-151.521 χ^2/NDF : 33.7/32

Left Out: 431.658+/-115.706 χ^2/NDF : 30.5/24

Right Out: -711.903+/-150.602 χ^2/NDF : 51.6/35

Left In: -123.017+/-118.849 χ^2/NDF : 29.3/22

Left: 161.753+/-82.905 χ^2/NDF : 70.9/47

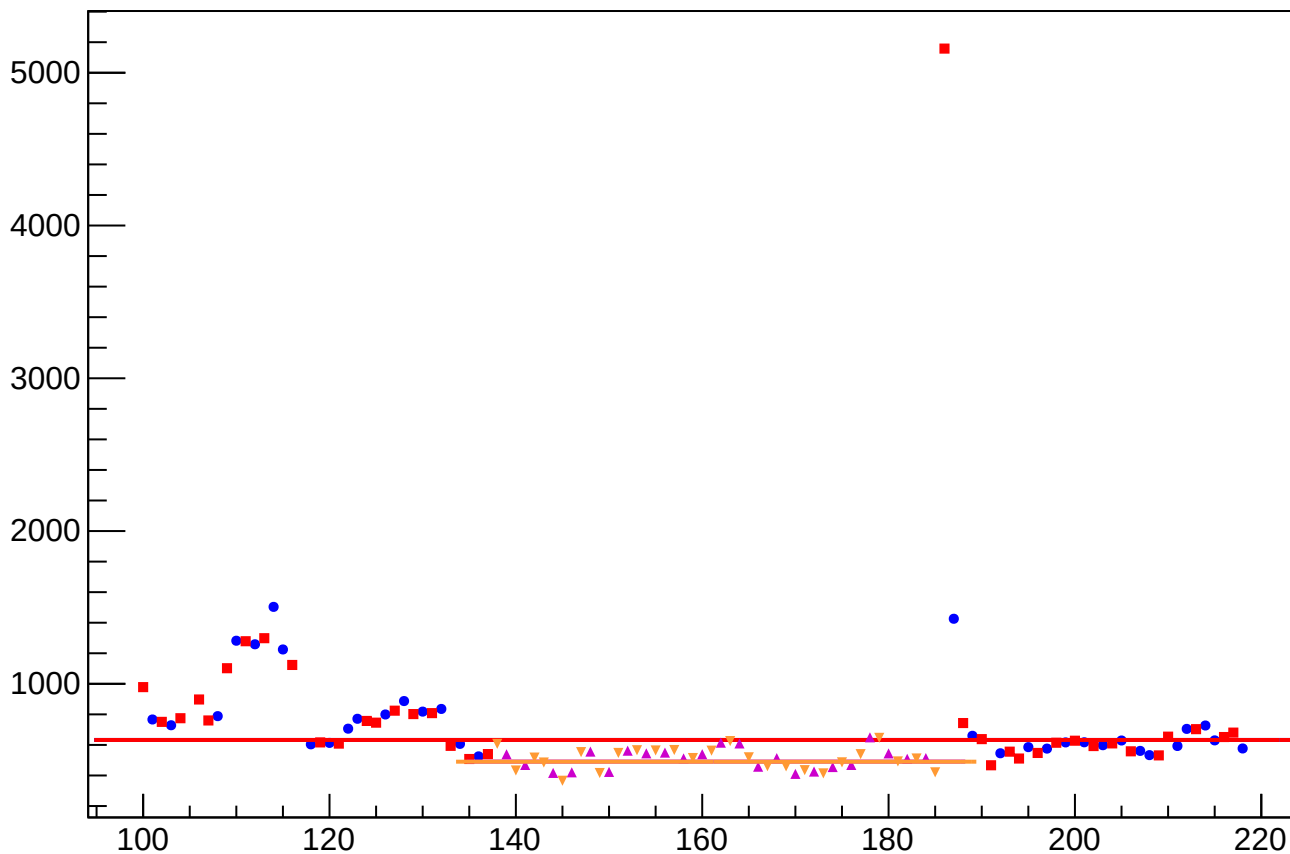
Right: -129.260+/-106.815 χ^2/NDF : 115.4/68

In: 99.250+/-93.514 χ^2/NDF : 72.1/55

Out: 7.197+/-91.753 χ^2/NDF : 118.3/60

All: 52.349+/-65.493 χ^2/NDF : 190.9/116

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 632.522+/-0.107 χ^2/NDF : 1241371.5/32

Left Out: 490.267+/-0.082 χ^2/NDF : 750277.0/24

Right Out: 632.445+/-0.106 χ^2/NDF : 2048603.3/35

Left In: 490.910+/-0.084 χ^2/NDF : 589235.5/22

Left: 490.580+/-0.059 χ^2/NDF : 1339542.5/47

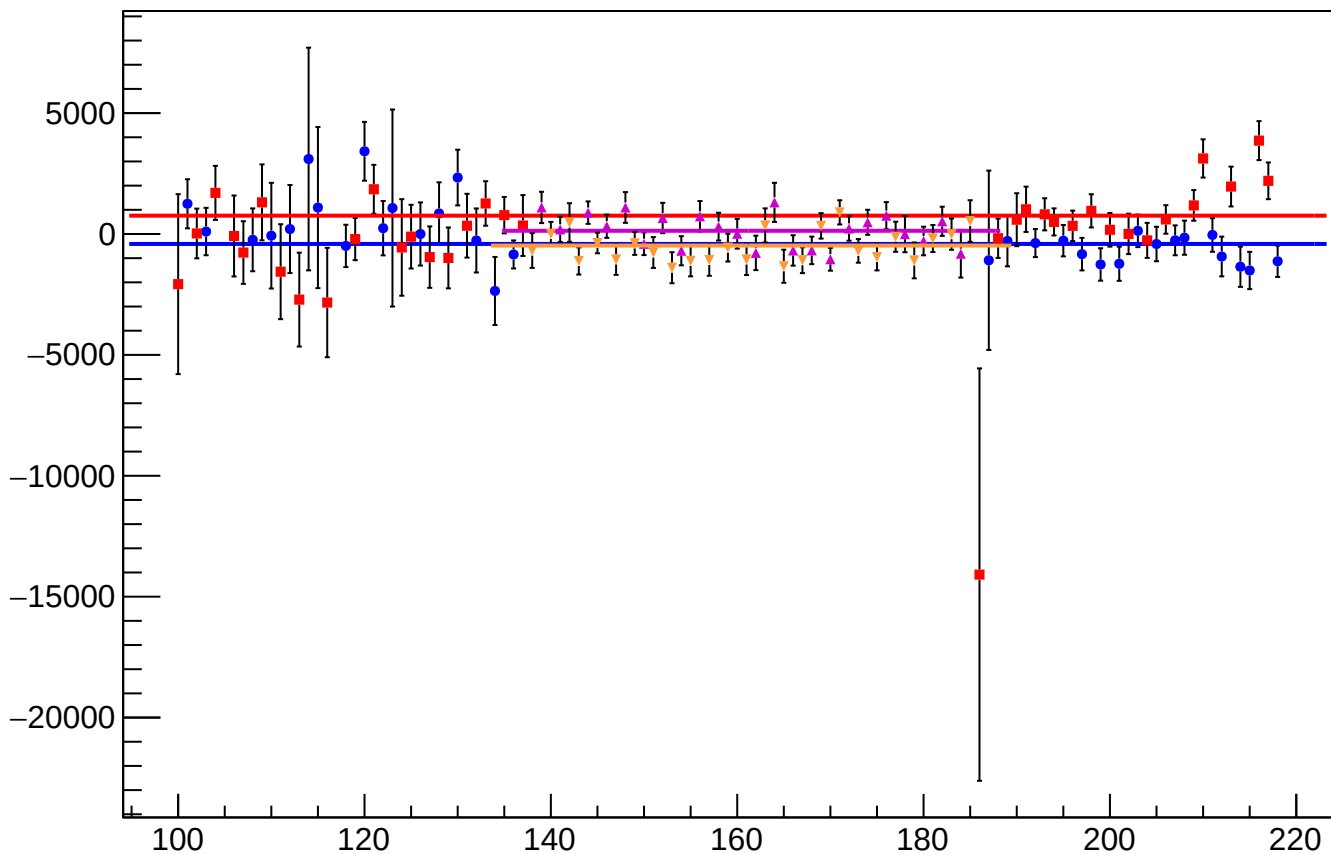
Right: 632.483+/-0.076 χ^2/NDF : 3289975.1/68

In: 544.849+/-0.066 χ^2/NDF : 2912164.5/55

Out: 543.040+/-0.065 χ^2/NDF : 3919772.1/60

All: 543.927+/-0.046 χ^2/NDF : 6832318.4/116

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -411.645 $\pm$ 153.080 χ^2/NDF : 33.0/32

Left Out: -478.197 $\pm$ 117.659 χ^2/NDF : 27.8/24

Right Out: 758.043 $\pm$ 152.267 χ^2/NDF : 57.0/35

Left In: 132.543 $\pm$ 120.866 χ^2/NDF : 29.5/22

Left: -181.037 $\pm$ 84.308 χ^2/NDF : 70.5/47

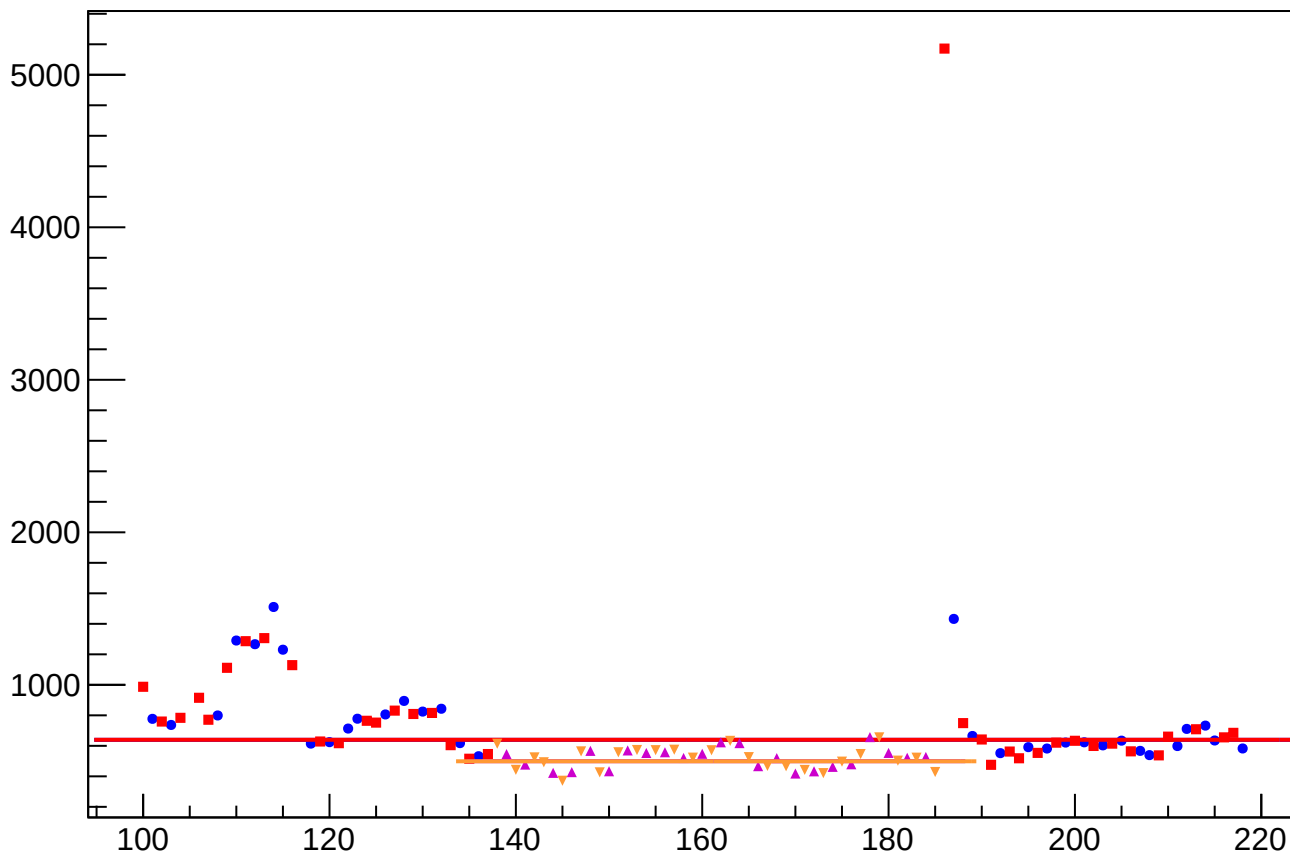
Right: 176.315 $\pm$ 107.955 χ^2/NDF : 119.3/68

In: -76.431 $\pm$ 94.862 χ^2/NDF : 70.3/55

Out: -16.015 $\pm$ 93.102 χ^2/NDF : 126.0/60

All: -45.658 $\pm$ 66.447 χ^2/NDF : 196.6/116

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 639.207 $\pm$ 0.108 χ^2 /NDF: 1229426.2/32

Left Out: 498.754 $\pm$ 0.083 χ^2 /NDF: 734302.8/24

Right Out: 639.675 $\pm$ 0.108 χ^2 /NDF: 2025974.5/35

Left In: 499.393 $\pm$ 0.085 χ^2 /NDF: 576539.2/22

Left: 499.065 $\pm$ 0.060 χ^2 /NDF: 1310870.7/47

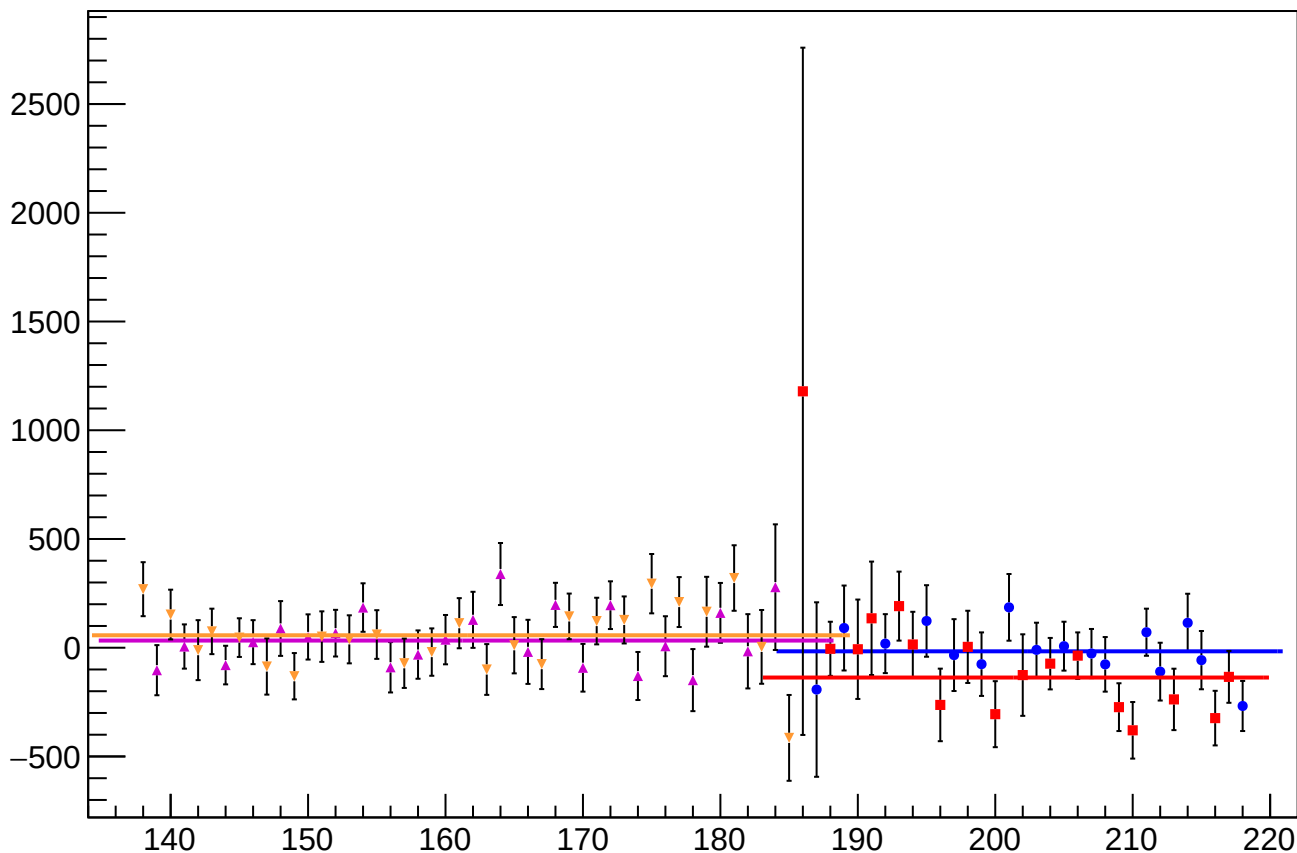
Right: 639.442 $\pm$ 0.076 χ^2 /NDF: 3255410.0/68

In: 553.083 $\pm$ 0.067 χ^2 /NDF: 2833660.6/55

Out: 551.439 $\pm$ 0.066 χ^2 /NDF: 3832882.9/60

All: 552.246 $\pm$ 0.047 χ^2 /NDF: 6666849.4/116

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -16.513 ± 34.026 χ^2/NDF : 10.4/15

Left Out: 57.211 ± 23.714 χ^2/NDF : 29.2/24

Right Out: -137.068 ± 35.097 χ^2/NDF : 20.0/16

Left In: 32.948 ± 24.587 χ^2/NDF : 23.6/22

Left: 45.518 ± 17.069 χ^2/NDF : 53.3/47

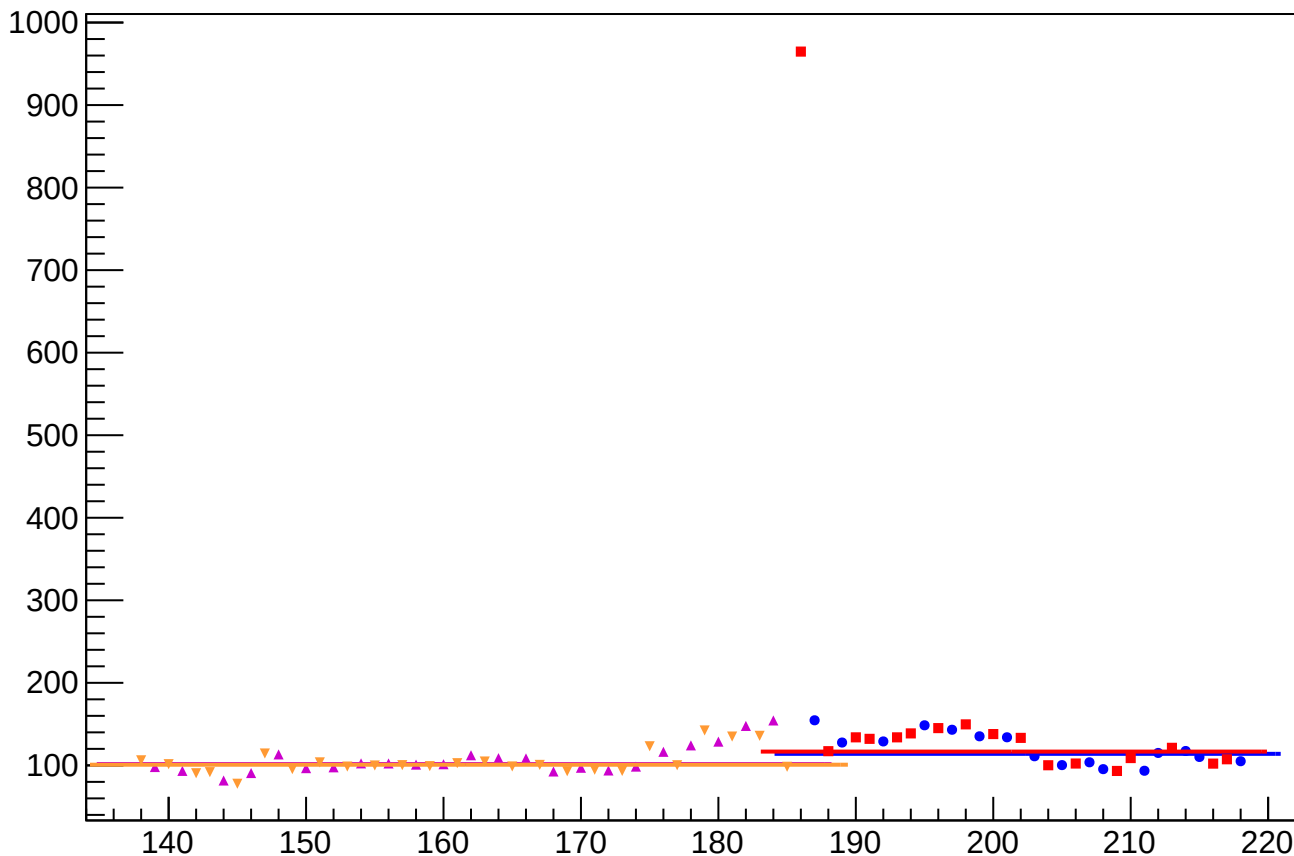
Right: -74.922 ± 24.430 χ^2/NDF : 36.5/32

In: 15.981 ± 19.929 χ^2/NDF : 35.4/38

Out: -3.683 ± 19.649 χ^2/NDF : 70.2/41

All: 6.010 ± 13.992 χ^2/NDF : 106.1/80

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 113.973 $\pm$ 0.024 χ^2 /NDF: 459584.6/15

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 116.690 $\pm$ 0.025 χ^2 /NDF: 1068731.7/16

Left In: 101.622 $\pm$ 0.017 χ^2 /NDF: 582329.3/22

Left: 101.196 $\pm$ 0.012 χ^2 /NDF: 1183987.6/47

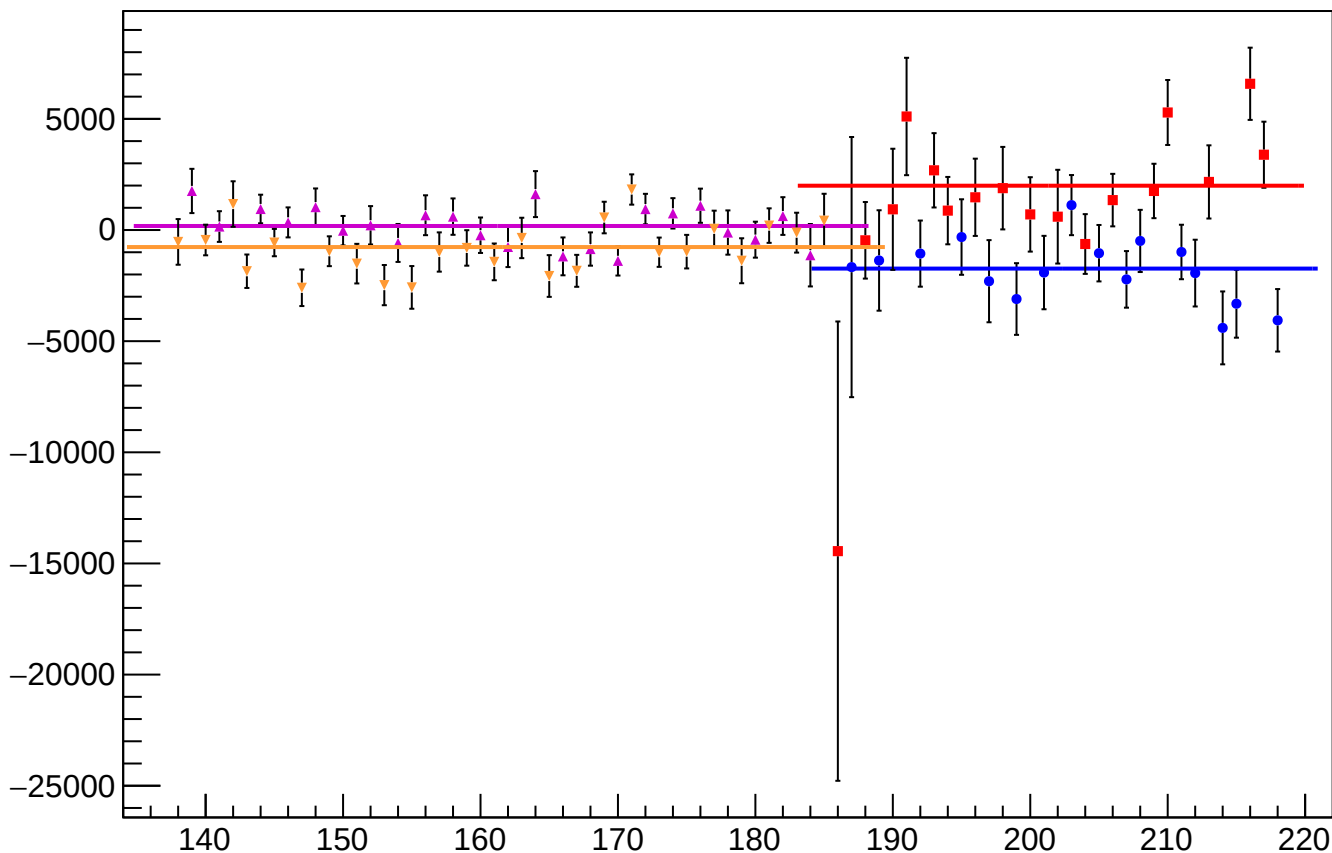
Right: 115.290 $\pm$ 0.017 χ^2 /NDF: 1534497.4/32

In: 105.859 $\pm$ 0.014 χ^2 /NDF: 1215045.2/38

Out: 105.781 $\pm$ 0.014 χ^2 /NDF: 1950697.6/41

All: 105.819 $\pm$ 0.010 χ^2 /NDF: 3165758.2/80

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1734.861 ± 384.058 $\chi^2/\text{NDF}: 14.3/15$

Left Out: -766.358 ± 161.066 $\chi^2/\text{NDF}: 46.5/24$

Right Out: 1993.826 ± 400.685 $\chi^2/\text{NDF}: 26.0/16$

Left In: 181.584 ± 165.671 $\chi^2/\text{NDF}: 25.0/22$

Left: -305.743 ± 115.485 $\chi^2/\text{NDF}: 88.4/47$

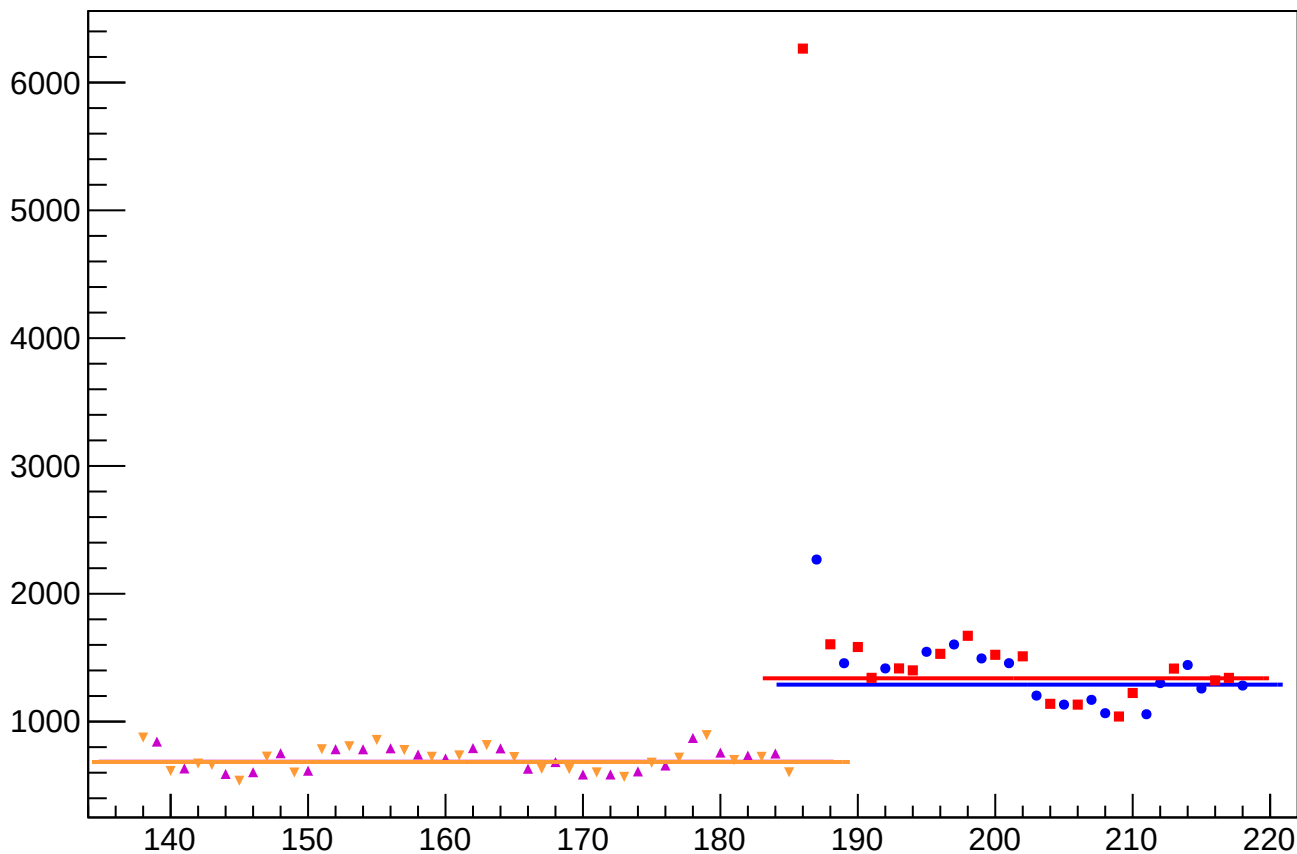
Right: 50.516 ± 277.262 $\chi^2/\text{NDF}: 85.5/32$

In: -119.080 ± 152.121 $\chi^2/\text{NDF}: 60.3/38$

Out: -382.395 ± 149.444 $\chi^2/\text{NDF}: 113.4/41$

All: -253.074 ± 106.607 $\chi^2/\text{NDF}: 175.2/80$

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1289.090 $\pm$ 0.272 χ^2 /NDF: 434782.3/15

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1338.591 $\pm$ 0.283 χ^2 /NDF: 893430.3/16

Left In: 685.593 $\pm$ 0.117 χ^2 /NDF: 529353.6/22

Left: 684.715 $\pm$ 0.082 χ^2 /NDF: 1196621.1/47

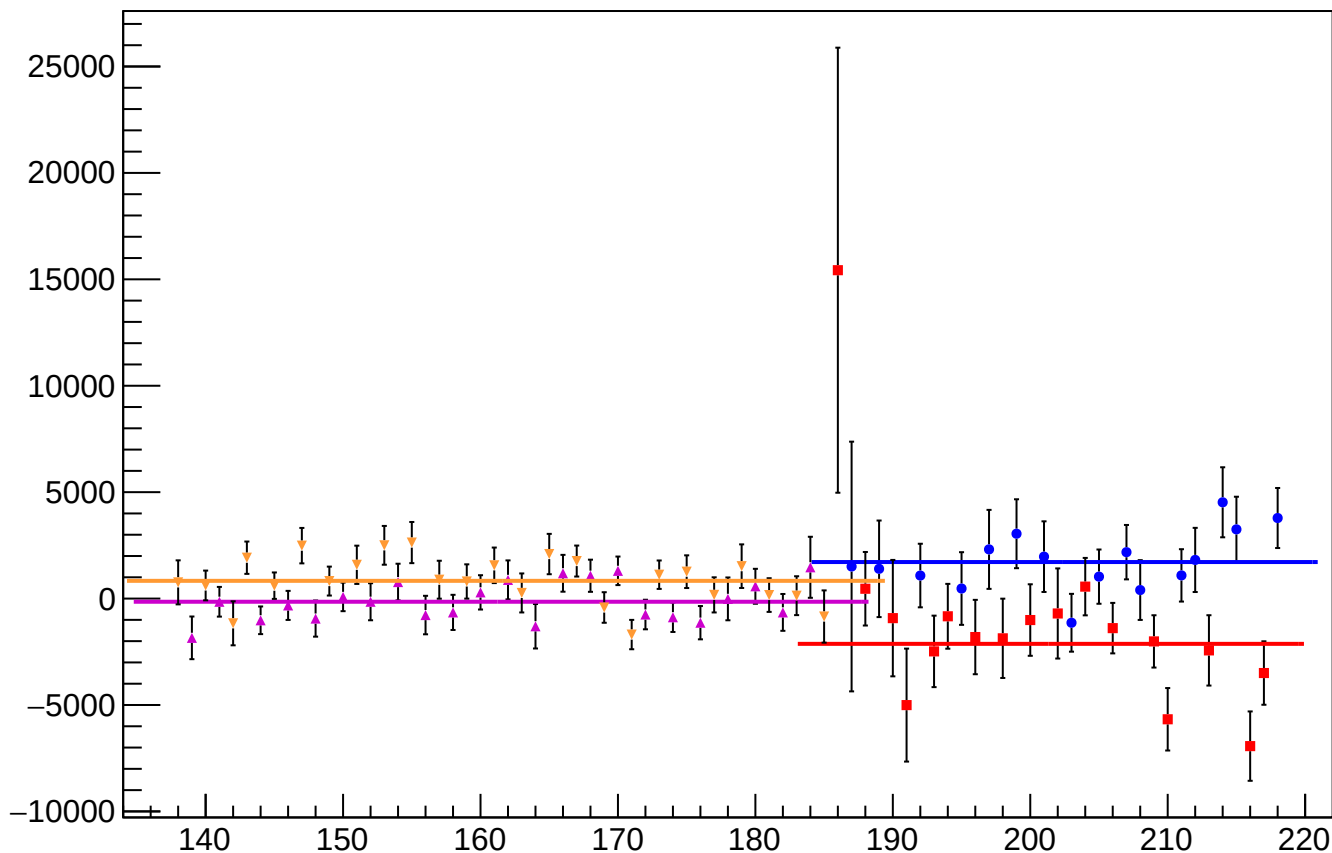
Right: 1312.792 $\pm$ 0.196 χ^2 /NDF: 1344121.1/32

In: 780.273 $\pm$ 0.108 χ^2 /NDF: 5127772.7/38

Out: 774.959 $\pm$ 0.106 χ^2 /NDF: 6157492.6/41

All: 777.569 $\pm$ 0.075 χ^2 /NDF: 11286507.1/80

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1716.768 $\pm$ 385.618 χ^2 /NDF: 13.6/15

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF:43.2/24

Right Out: -2127.081 $\pm$ 402.318 χ^2 /NDF: 27.9/16

Left In: -148.814 $\pm$ 167.644 χ^2 /NDF:26.0/22

Left: 356.189 $\pm$ 116.853 χ^2 /NDF: 86.9/47

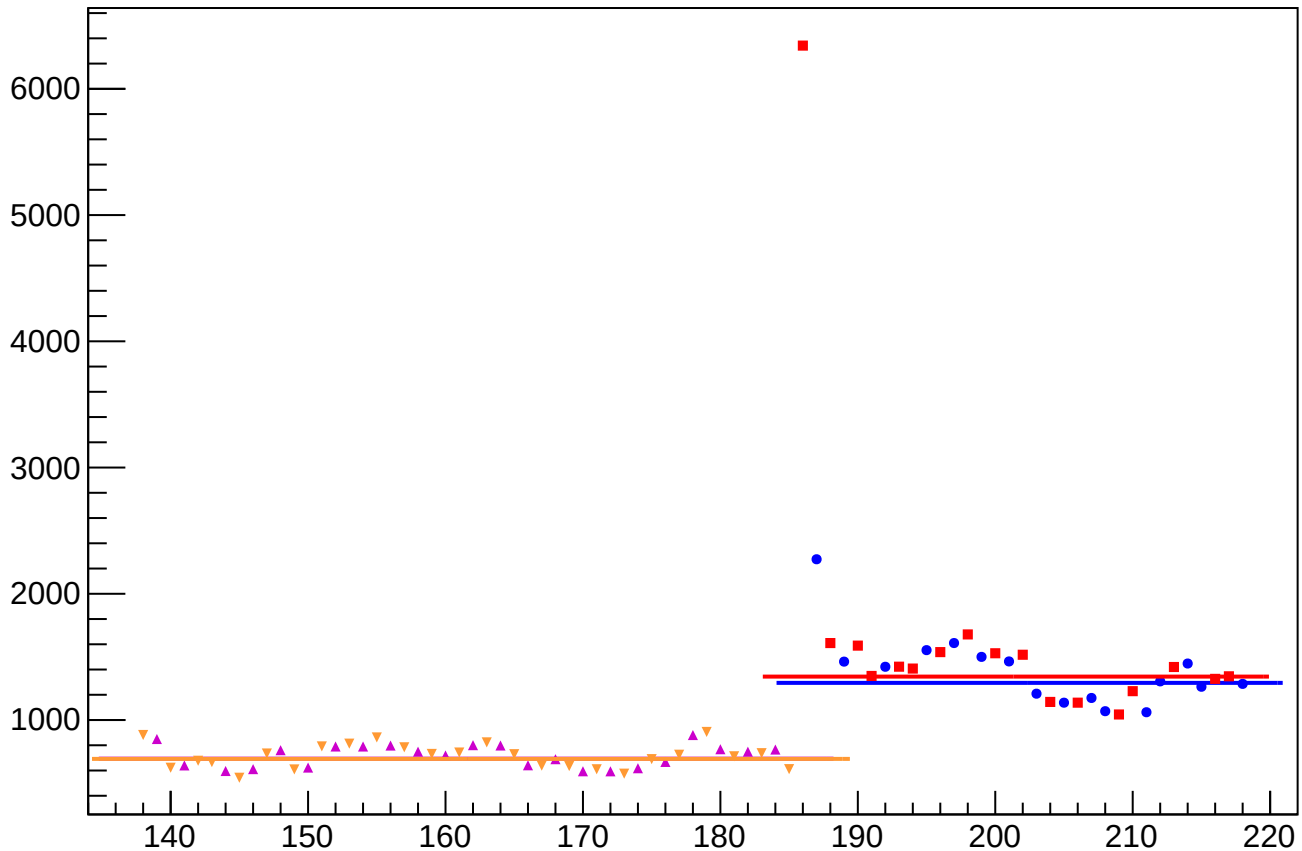
Right: -123.725 $\pm$ 278.390 χ^2 /NDF: 89.1/32

In: 147.733 $\pm$ 153.744 χ^2 /NDF:59.3/38

Out: 416.113 $\pm$ 151.044 χ^2 /NDF:117.7/41

All: 284.300 $\pm$ 107.746 χ^2 /NDF: 178.5/80

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1294.326+/-0.273 χ^2/NDF : 435267.7/15

Left Out: 692.097+/-0.115 χ^2/NDF : 657259.6/24

Right Out: 1344.009+/-0.284 χ^2/NDF : 895892.0/16

Left In: 693.867+/-0.119 χ^2/NDF : 522053.5/22

Left: 692.957+/-0.083 χ^2/NDF : 1179427.7/47

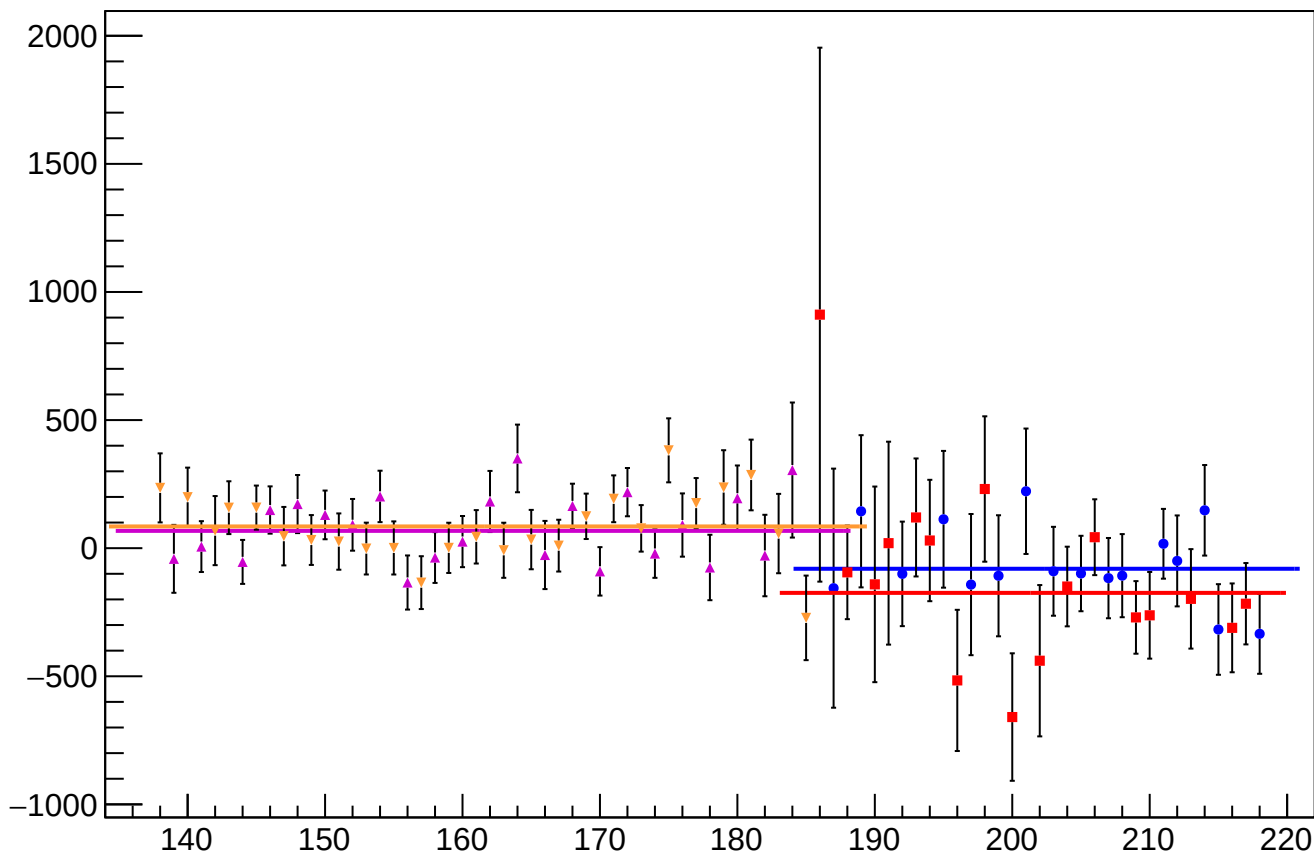
Right: 1318.115+/-0.197 χ^2/NDF : 1347056.4/32

In: 789.314+/-0.109 χ^2/NDF : 5035806.1/38

Out: 783.984+/-0.107 χ^2/NDF : 6064299.5/41

All: 786.602+/-0.076 χ^2/NDF : 11101328.6/80

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -80.363 ± 47.111 χ^2/NDF : 9.5/15

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -174.479 ± 49.675 χ^2/NDF : 15.7/16

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

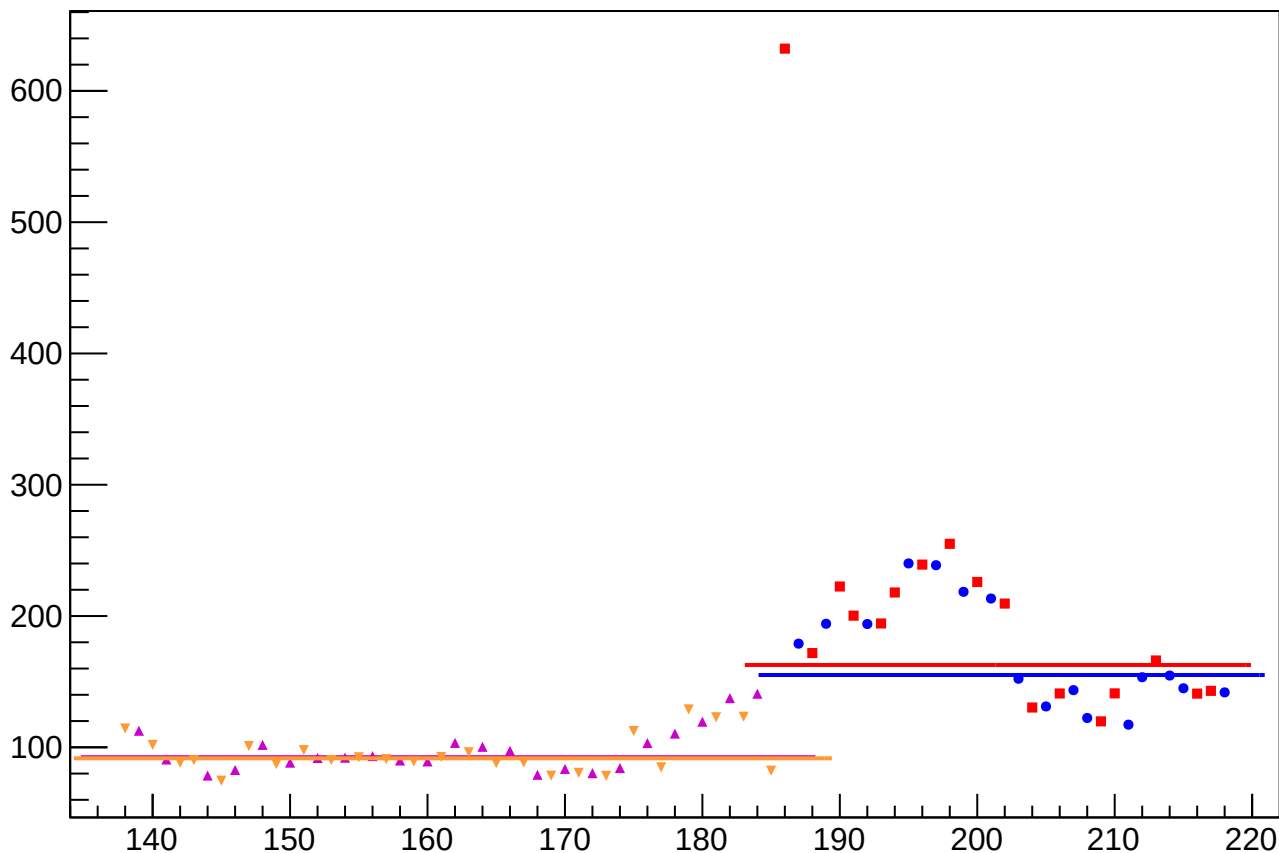
Right: -124.929 ± 34.183 χ^2/NDF : 27.1/32

In: 40.180 ± 20.266 χ^2/NDF : 46.4/38

Out: 43.485 ± 19.841 χ^2/NDF : 67.1/41

All: 41.867 ± 14.178 χ^2/NDF : 113.5/80

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 155.082 $\pm$ 0.033 χ^2 /NDF: 1077391.5/15

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 162.713 $\pm$ 0.035 χ^2 /NDF: 1578925.1/16

Left In: 92.466 $\pm$ 0.016 χ^2 /NDF: 655700.4/22

Left: 92.034 $\pm$ 0.011 χ^2 /NDF: 1350250.3/47

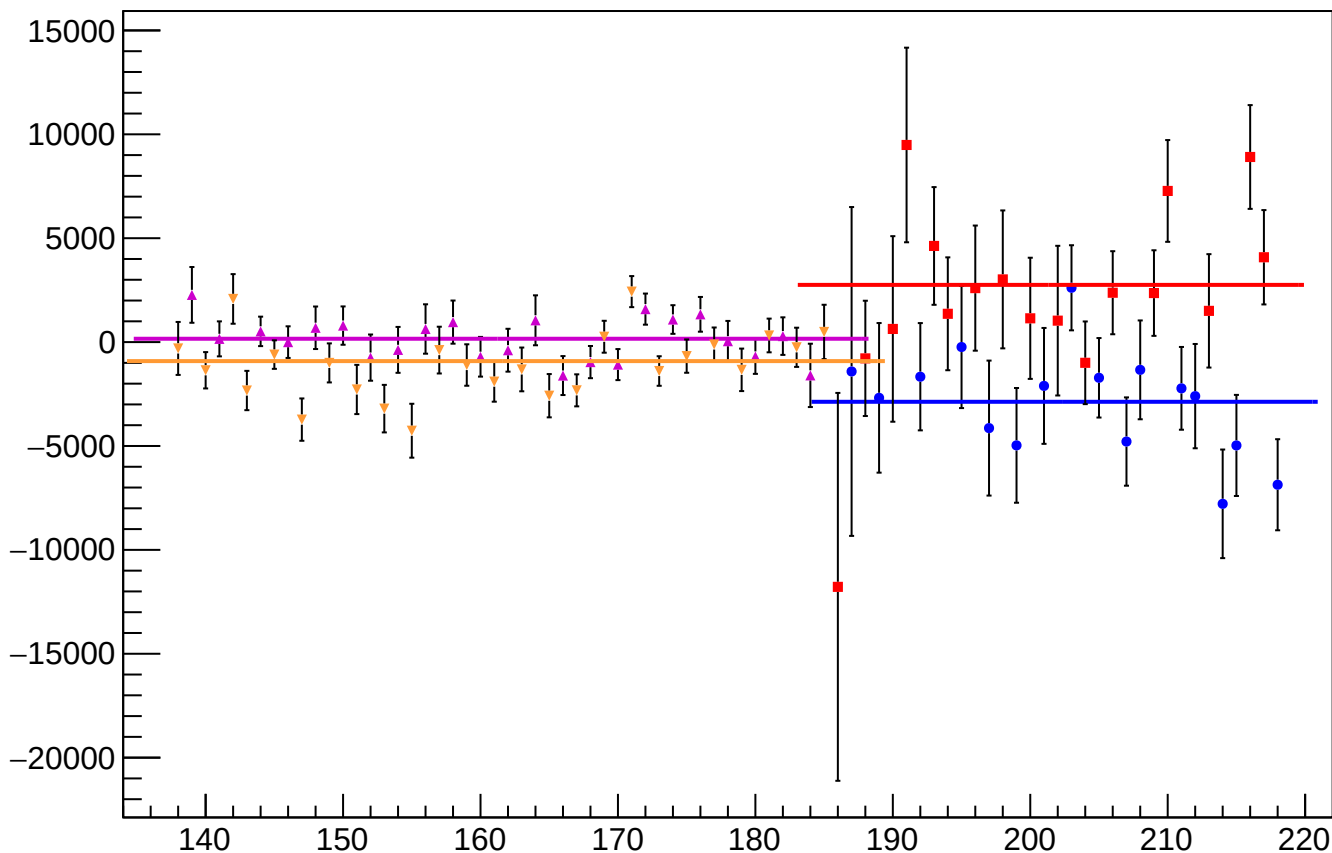
Right: 158.695 $\pm$ 0.024 χ^2 /NDF: 2681159.6/32

In: 104.053 $\pm$ 0.014 χ^2 /NDF: 4612472.9/38

Out: 102.973 $\pm$ 0.014 χ^2 /NDF: 5713672.1/41

All: 103.502 $\pm$ 0.010 χ^2 /NDF: 10329047.5/80

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -2872.902 $\pm$ 625.262 χ^2 /NDF: 18.3/15

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF: 64.2/24

Right Out: 2753.645 $\pm$ 661.222 χ^2 /NDF: 21.2/16

Left In: 161.076 $\pm$ 189.491 χ^2 /NDF: 25.1/22

Left: -388.730 $\pm$ 132.499 χ^2 /NDF: 105.7/47

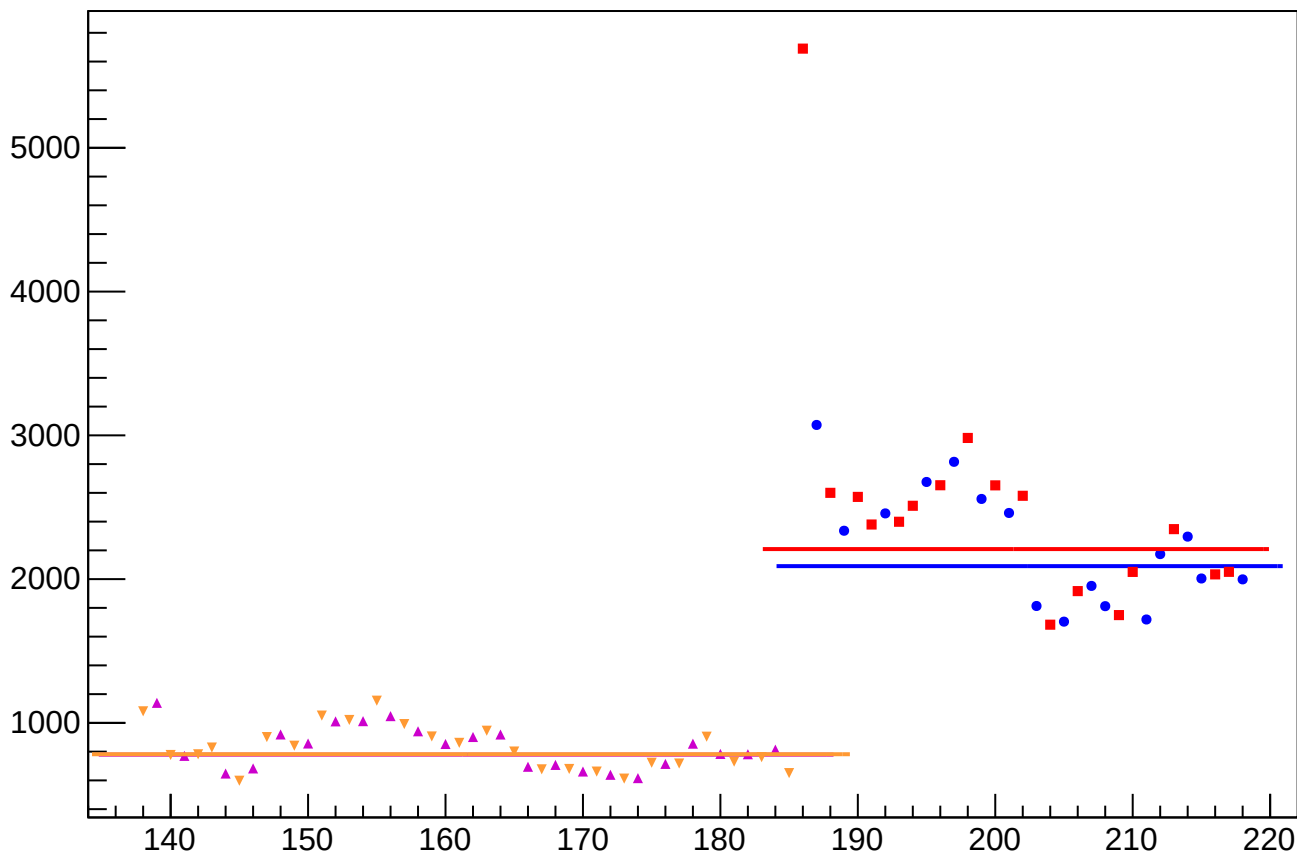
Right: -216.781 $\pm$ 454.308 χ^2 /NDF: 77.8/32

In: -94.137 $\pm$ 181.346 χ^2 /NDF: 65.0/38

Out: -647.497 $\pm$ 178.463 χ^2 /NDF: 114.0/41

All: -375.251 $\pm$ 127.199 χ^2 /NDF: 183.7/80

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2090.332 $\pm$ 0.442 χ^2 /NDF: 596137.8/15

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2209.006 $\pm$ 0.468 χ^2 /NDF: 901971.6/16

Left In: 778.995 $\pm$ 0.134 χ^2 /NDF: 980243.4/22

Left: 780.552 $\pm$ 0.094 χ^2 /NDF: 2111492.1/47

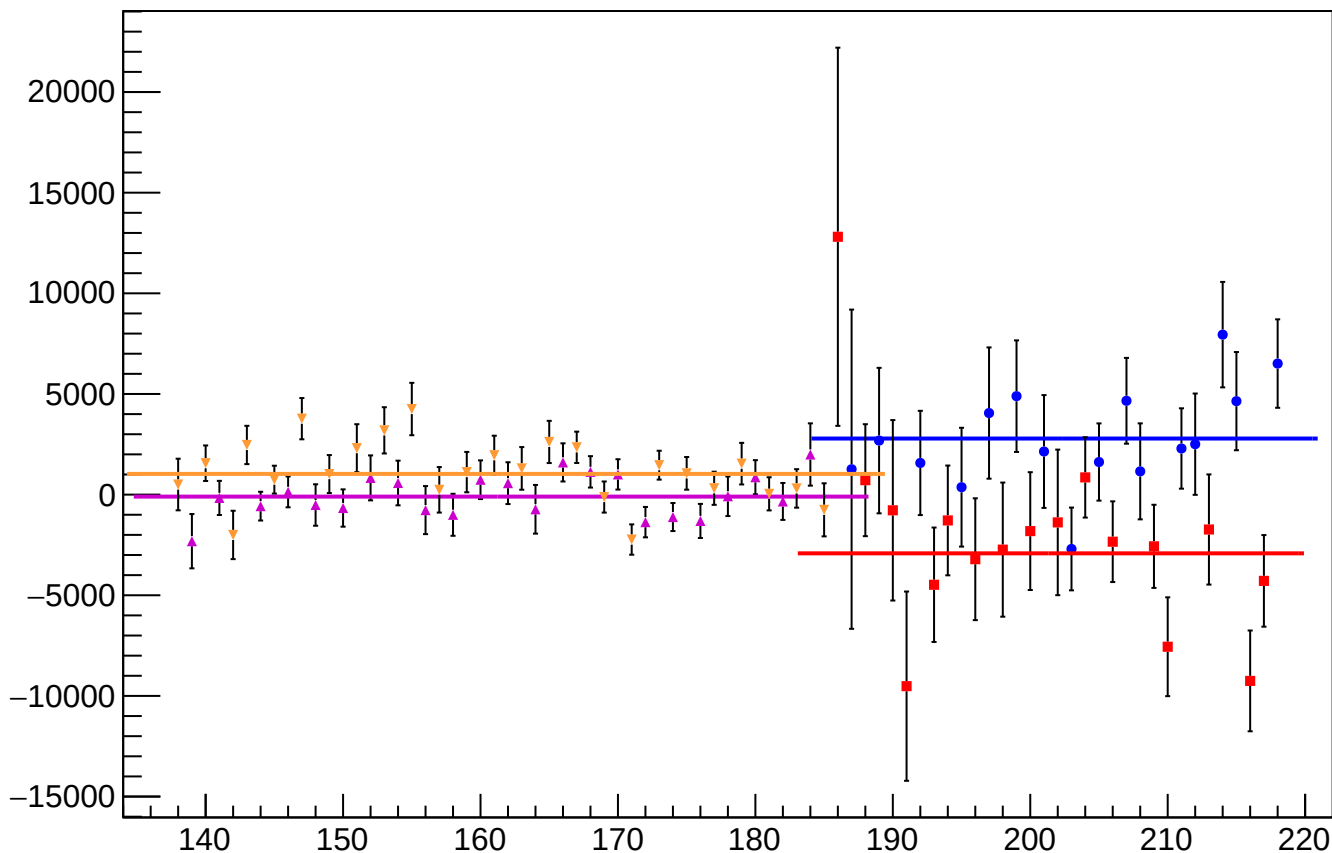
Right: 2146.354 $\pm$ 0.321 χ^2 /NDF: 1532120.7/32

In: 889.302 $\pm$ 0.128 χ^2 /NDF: 9633398.2/38

Out: 885.989 $\pm$ 0.126 χ^2 /NDF: 10668974.5/41

All: 887.619 $\pm$ 0.090 χ^2 /NDF: 20302711.9/80

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2786.097+/-627.192 χ^2/NDF : 17.8/15

Left Out: 1028.864+/-186.810 χ^2/NDF : 60.2/24

Right Out: -2917.166+/-663.275 χ^2/NDF : 21.9/16

Left In: -98.691+/-191.027 χ^2/NDF : 25.4/22

Left: 477.669+/-133.561 χ^2/NDF : 103.3/47

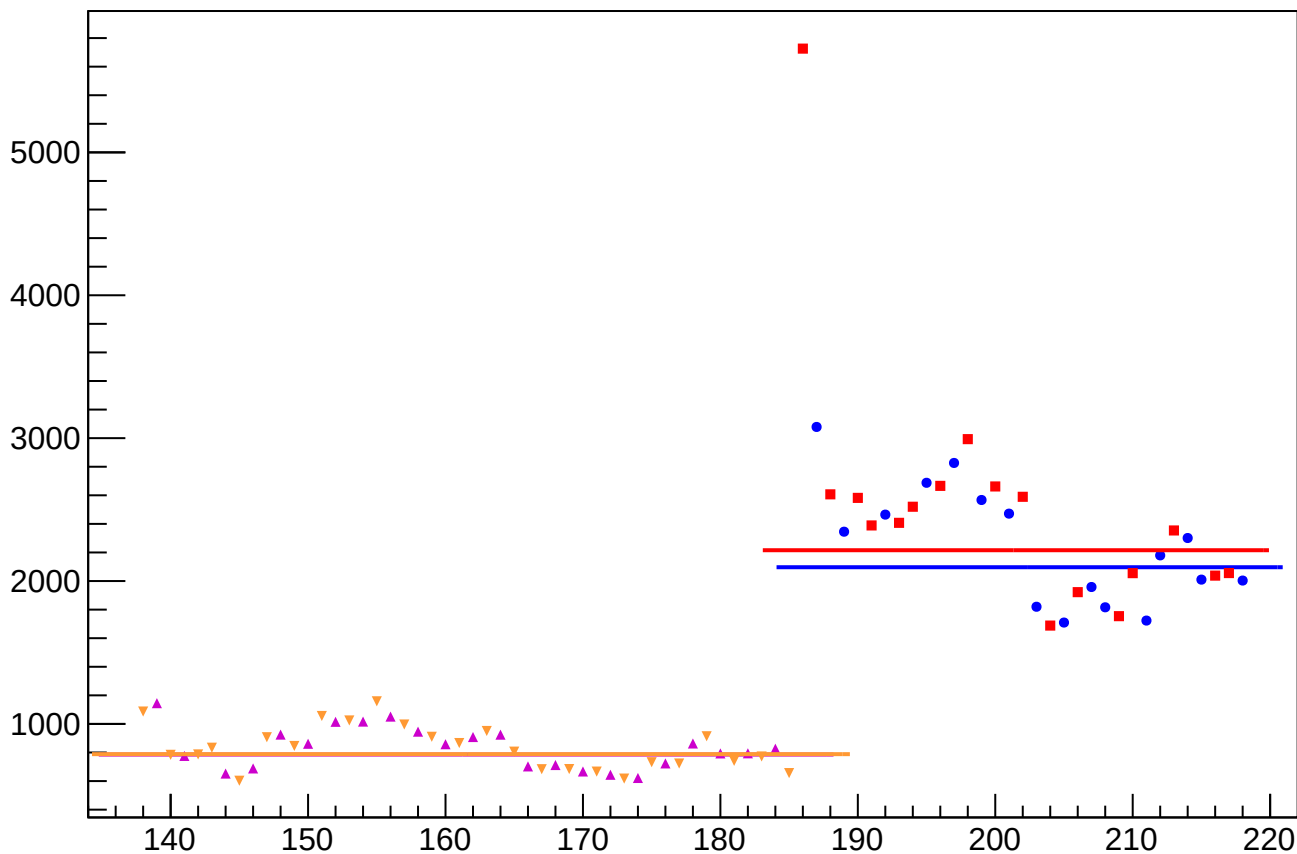
Right: 93.813+/-455.714 χ^2/NDF : 78.8/32

In: 146.201+/-182.739 χ^2/NDF : 62.6/38

Out: 738.848+/-179.814 χ^2/NDF : 114.9/41

All: 447.305+/-128.169 χ^2/NDF : 182.8/80

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2096.665 $\pm$ 0.443 χ^2 /NDF: 598632.8/15

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF: 1113741.6/24

Right Out: 2215.668 $\pm$ 0.469 χ^2 /NDF: 906119.7/16

Left In: 785.490 $\pm$ 0.135 χ^2 /NDF: 965338.9/22

Left: 786.999 $\pm$ 0.094 χ^2 /NDF: 2079324.6/47

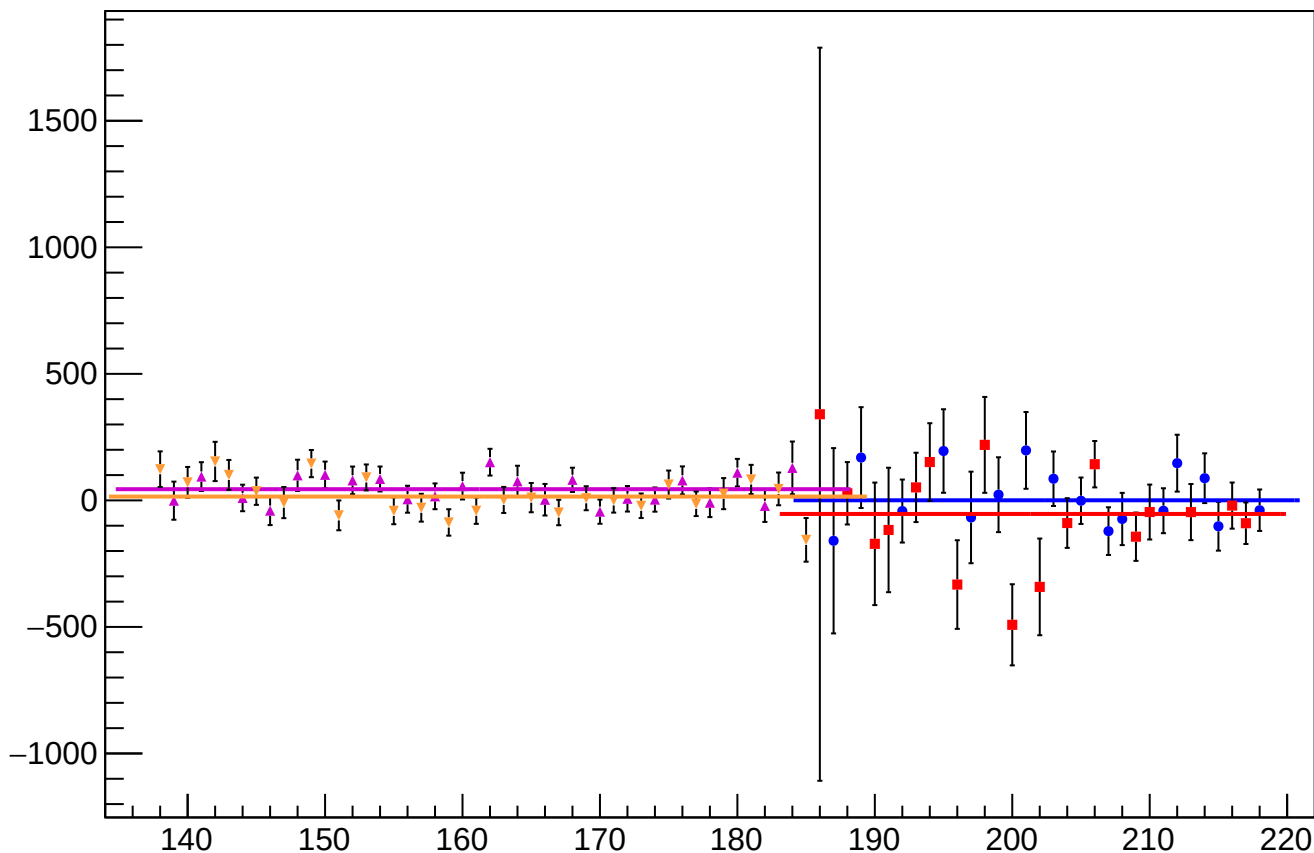
Right: 2152.841 $\pm$ 0.322 χ^2 /NDF: 1538741.9/32

In: 896.797 $\pm$ 0.129 χ^2 /NDF: 9562745.2/38

Out: 893.337 $\pm$ 0.127 χ^2 /NDF: 10599636.9/41

All: 895.039 $\pm$ 0.091 χ^2 /NDF: 20162746.6/80

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 0.417 ± 28.496 $\chi^2/\text{NDF}: 11.1/15$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -53.588 ± 30.288 $\chi^2/\text{NDF}: 23.5/16$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

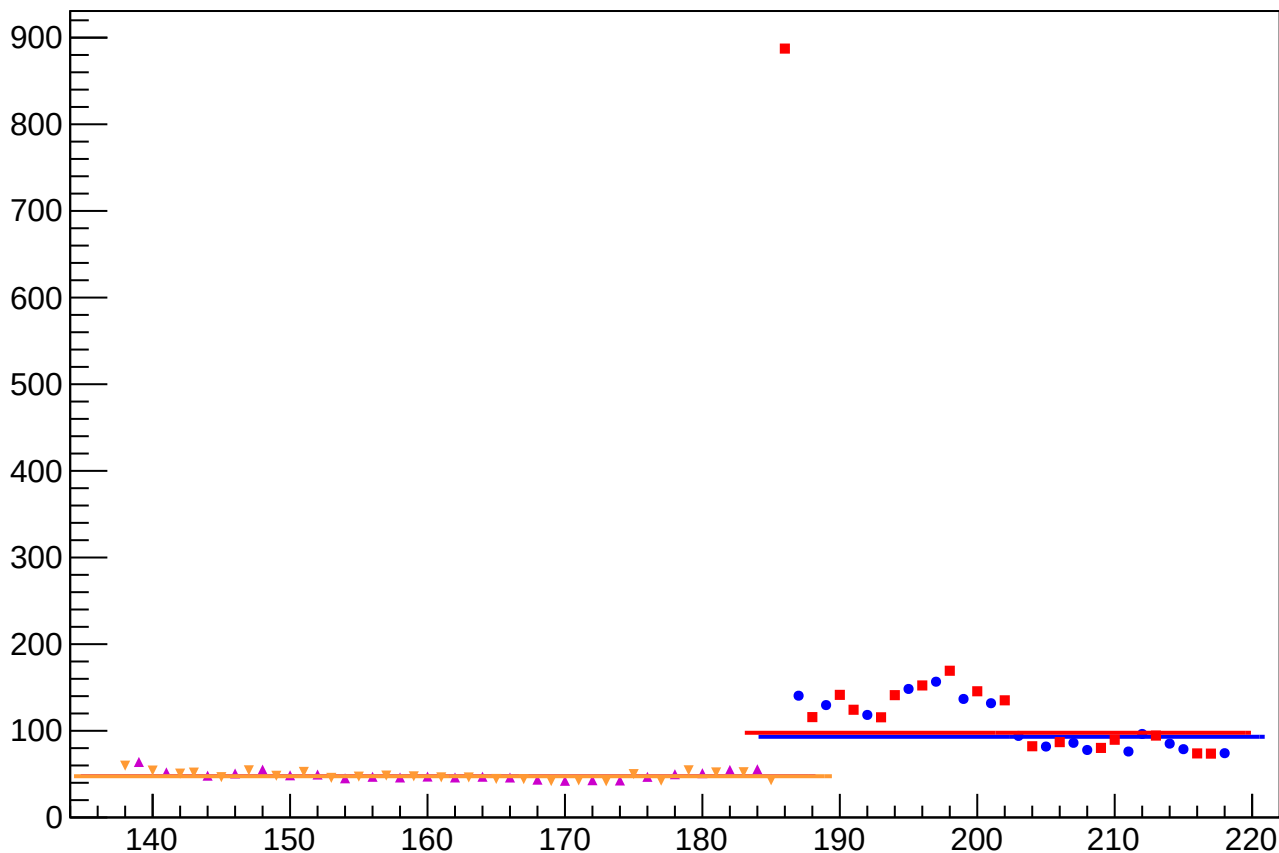
Right: -24.941 ± 20.754 $\chi^2/\text{NDF}: 36.3/32$

In: 38.124 ± 10.688 $\chi^2/\text{NDF}: 35.5/38$

Out: 6.896 ± 10.467 $\chi^2/\text{NDF}: 62.2/41$

All: 22.184 ± 7.478 $\chi^2/\text{NDF}: 102.1/80$

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 93.112 $\pm$ 0.020 χ^2 /NDF: 1282619.1/15

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF: 312874.8/24

Right Out: 97.738 $\pm$ 0.021 χ^2 /NDF: 2122179.1/16

Left In: 47.846 $\pm$ 0.008 χ^2 /NDF: 281790.1/22

Left: 47.712 $\pm$ 0.006 χ^2 /NDF: 595189.7/47

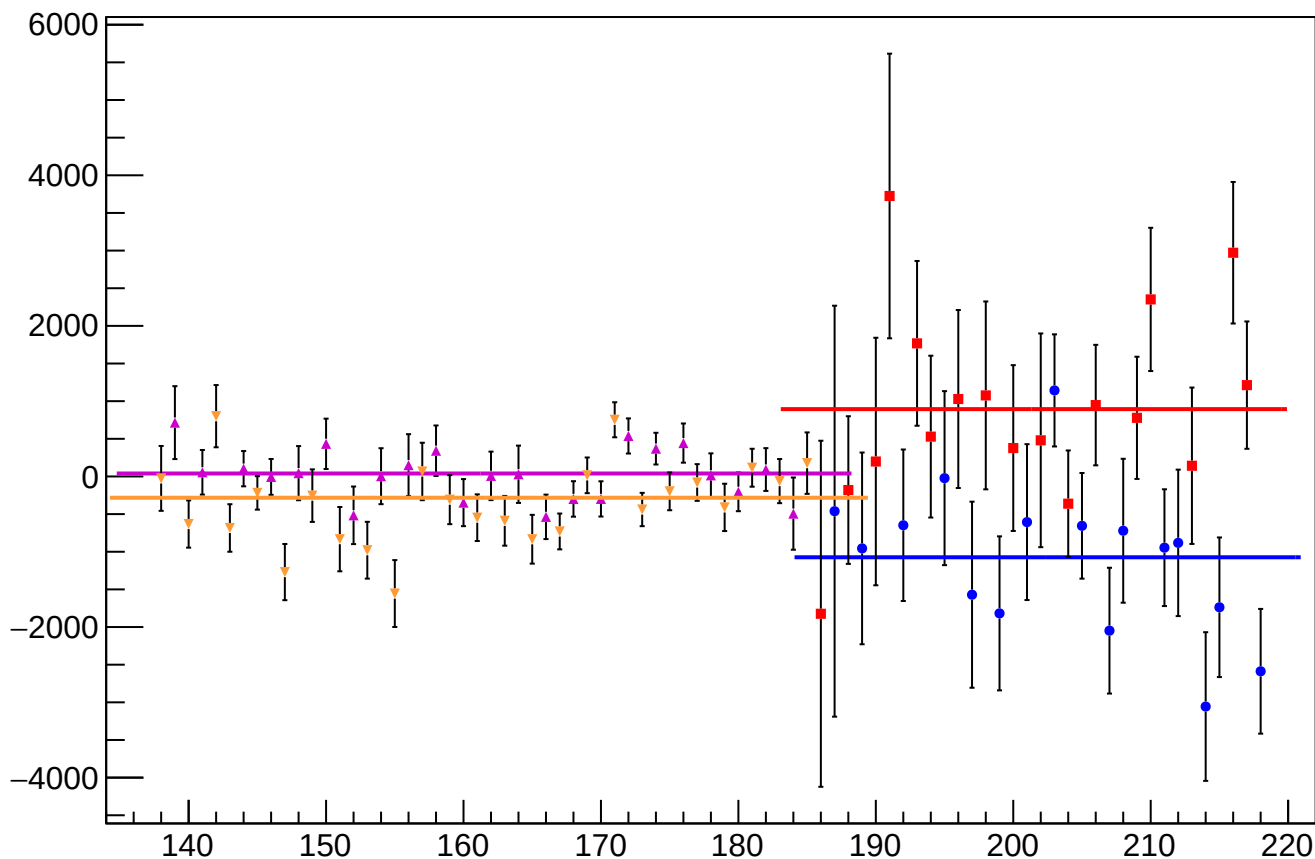
Right: 95.284 $\pm$ 0.015 χ^2 /NDF: 3429553.5/32

In: 54.214 $\pm$ 0.008 χ^2 /NDF: 5901081.9/38

Out: 53.576 $\pm$ 0.007 χ^2 /NDF: 7263679.5/41

All: 53.888 $\pm$ 0.005 χ^2 /NDF: 13168401.9/80

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -1073.483 ± 237.286 $\chi^2/\text{NDF}: 20.6/15$

Left Out: -282.798 ± 59.690 $\chi^2/\text{NDF}: 66.5/24$

Right Out: 894.343 ± 250.755 $\chi^2/\text{NDF}: 17.2/16$

Left In: 39.432 ± 60.759 $\chi^2/\text{NDF}: 27.5/22$

Left: -124.543 ± 42.580 $\chi^2/\text{NDF}: 108.4/47$

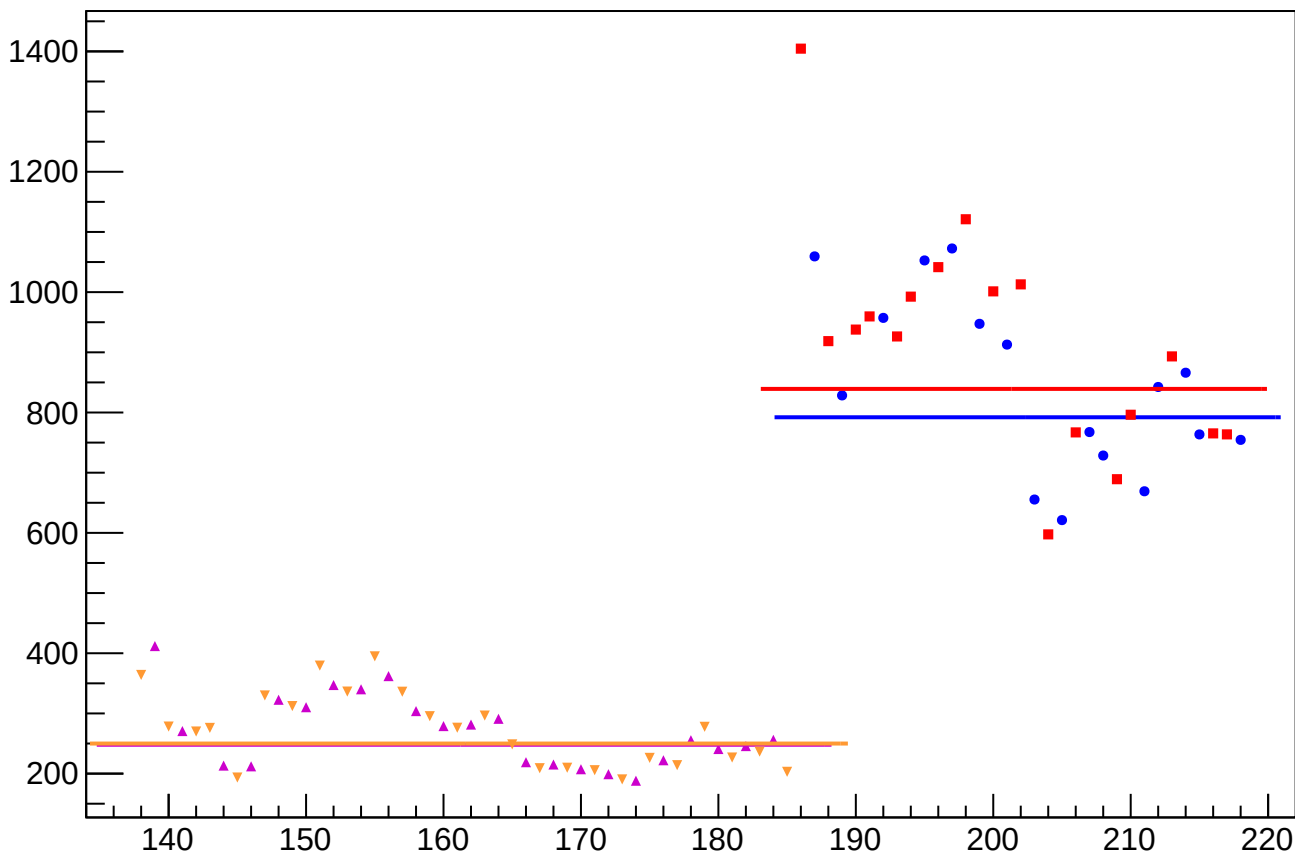
Right: -143.834 ± 172.352 $\chi^2/\text{NDF}: 70.3/32$

In: -29.047 ± 58.860 $\chi^2/\text{NDF}: 68.8/38$

Out: -219.674 ± 58.067 $\chi^2/\text{NDF}: 104.6/41$

All: -125.653 ± 41.337 $\chi^2/\text{NDF}: 178.7/80$

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 792.081+/-0.168 χ^2/NDF : 622172.1/15

Left Out: 249.956+/-0.042 χ^2/NDF : 1614205.9/24

Right Out: 839.224+/-0.177 χ^2/NDF : 793055.6/16

Left In: 247.917+/-0.043 χ^2/NDF : 1410847.5/22

Left: 248.955+/-0.030 χ^2/NDF : 3026200.1/47

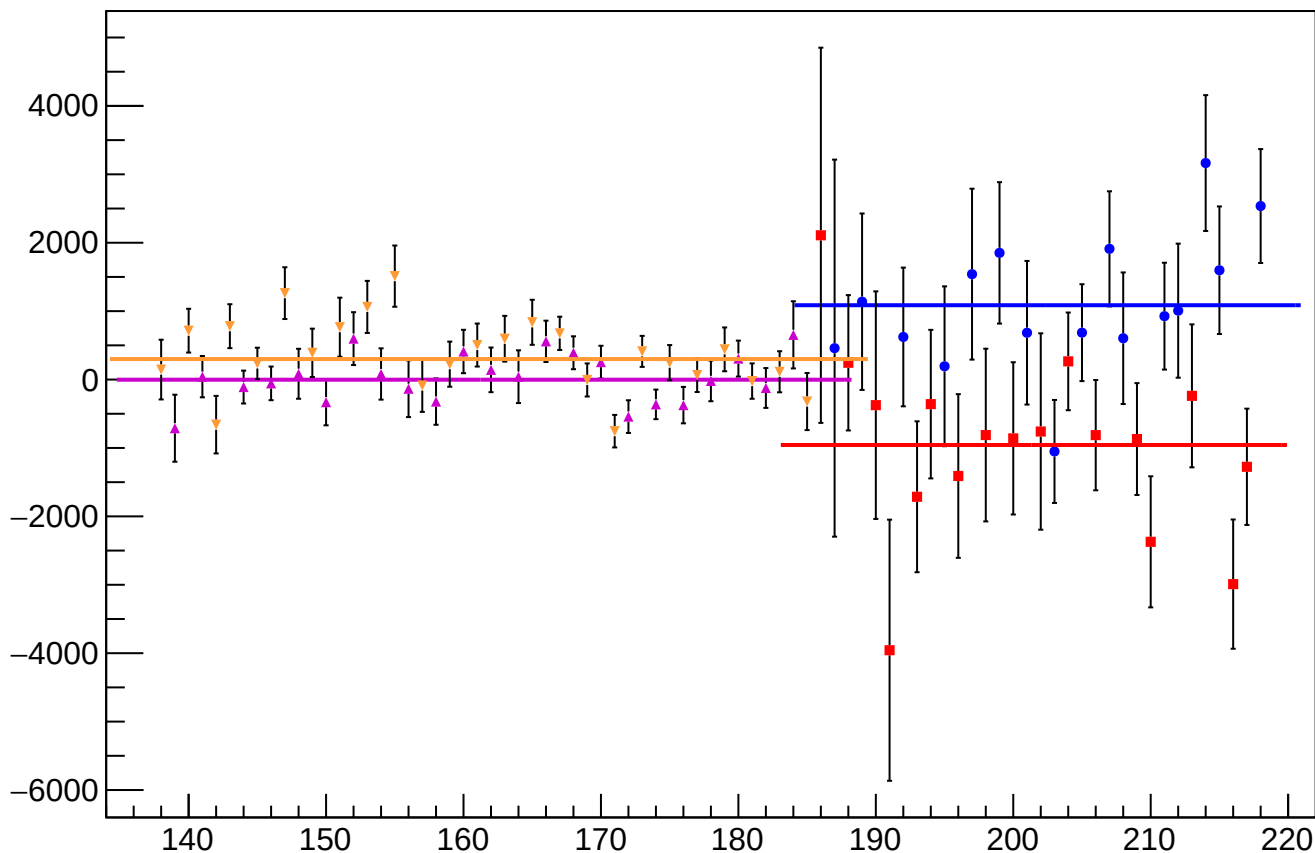
Right: 814.352+/-0.122 χ^2/NDF : 1452523.2/32

In: 281.400+/-0.042 χ^2/NDF : 11904079.1/38

Out: 281.556+/-0.041 χ^2/NDF : 12859770.7/41

All: 281.479+/-0.029 χ^2/NDF : 24763856.9/80

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 1086.556 $\pm$ 239.284 χ^2 /NDF: 19.0/15

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF:62.5/24

Right Out: -956.572 $\pm$ 253.293 χ^2 /NDF: 16.7/16

Left In: -2.185 $\pm$ 62.005 χ^2 /NDF:29.2/22

Left: 151.501 $\pm$ 43.433 χ^2 /NDF: 103.7/47

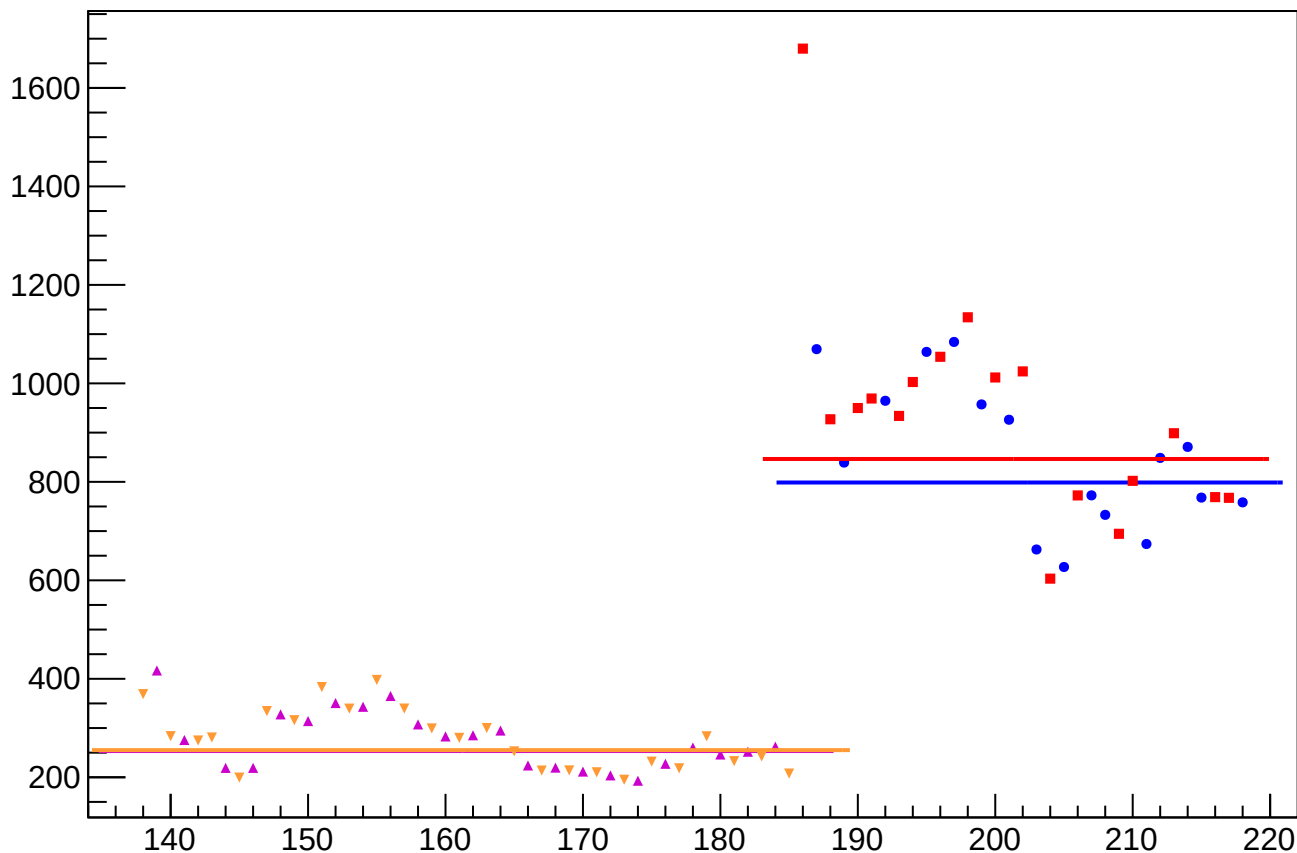
Right: 123.054 $\pm$ 173.941 χ^2 /NDF: 70.1/32

In: 66.320 $\pm$ 60.022 χ^2 /NDF:67.6/38

Out: 231.002 $\pm$ 59.175 χ^2 /NDF:102.4/41

All: 149.831 $\pm$ 42.140 χ^2 /NDF: 173.8/80

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 798.664 $\pm$ 0.169 χ^2 /NDF: 626935.1/15

Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF: 1542039.5/24

Right Out: 846.451 $\pm$ 0.179 χ^2 /NDF: 864729.3/16

Left In: 253.287 $\pm$ 0.044 χ^2 /NDF: 1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2 /NDF: 2884606.5/47

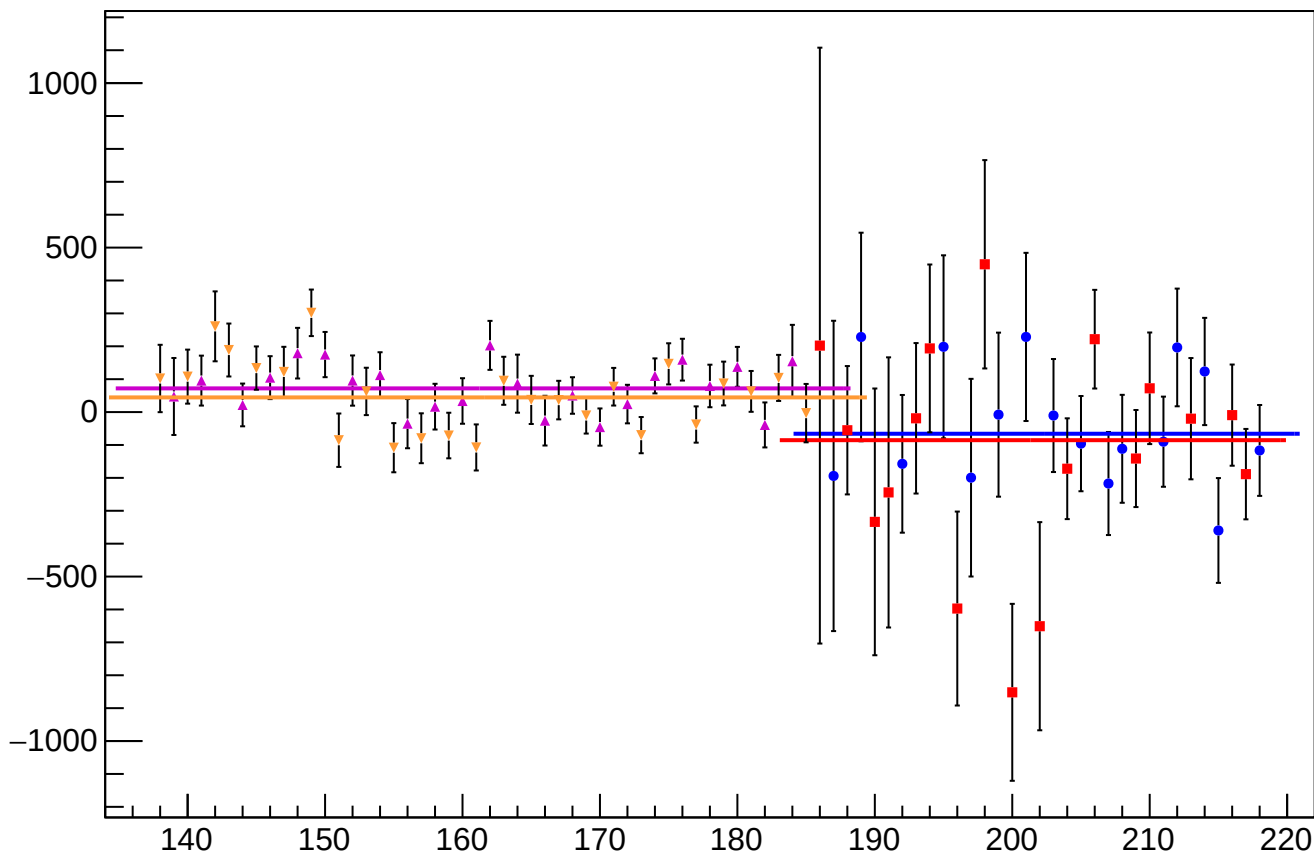
Right: 821.199 $\pm$ 0.123 χ^2 /NDF: 1529280.9/32

In: 287.603 $\pm$ 0.042 χ^2 /NDF: 11704397.3/38

Out: 287.410 $\pm$ 0.042 χ^2 /NDF: 12711708.4/41

All: 287.505 $\pm$ 0.030 χ^2 /NDF: 24416116.4/80

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -65.854 ± 46.317 $\chi^2/\text{NDF}: 11.8/15$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -85.415 ± 49.282 $\chi^2/\text{NDF}: 25.6/16$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

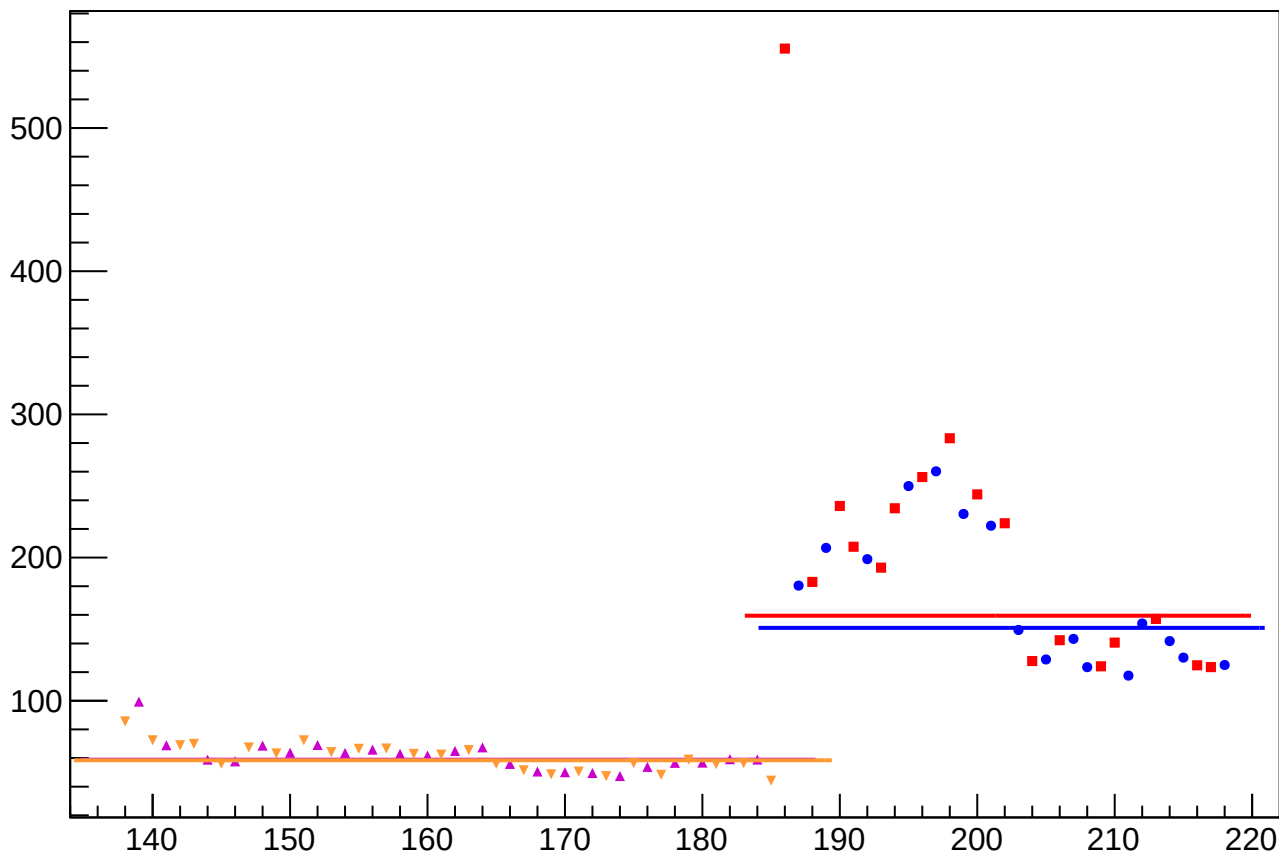
Right: -75.028 ± 33.751 $\chi^2/\text{NDF}: 37.5/32$

In: 60.042 ± 13.660 $\chi^2/\text{NDF}: 45.2/38$

Out: 35.118 ± 13.310 $\chi^2/\text{NDF}: 85.9/41$

All: 47.257 ± 9.533 $\chi^2/\text{NDF}: 132.9/80$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 150.923+/-0.033 χ^2/NDF : 1390238.3/15

Left Out: 58.423+/-0.010 χ^2/NDF : 790091.3/24

Right Out: 159.407+/-0.035 χ^2/NDF : 2019881.5/16

Left In: 58.840+/-0.010 χ^2/NDF : 679925.7/22

Left: 58.624+/-0.007 χ^2/NDF : 1470896.0/47

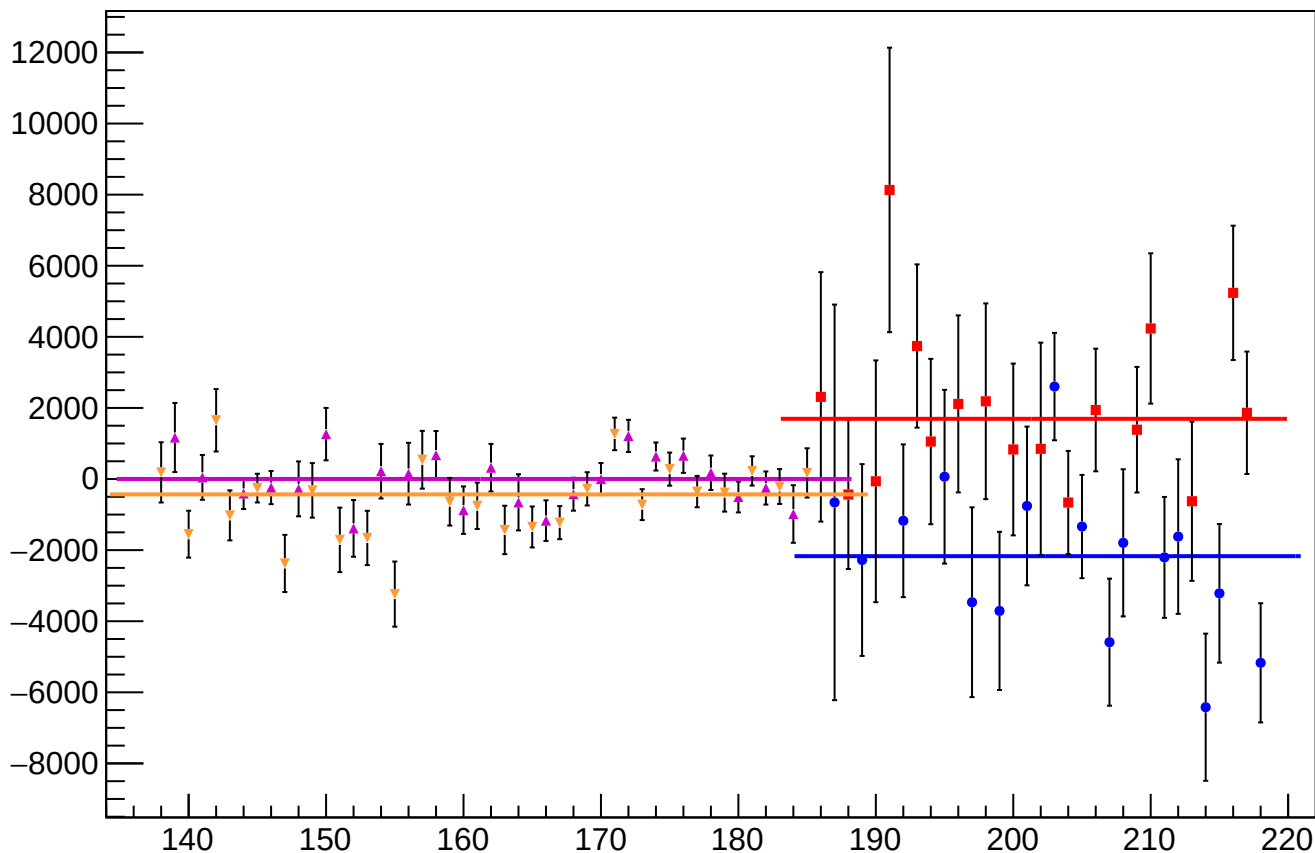
Right: 154.902+/-0.024 χ^2/NDF : 3441587.3/32

In: 66.850+/-0.010 χ^2/NDF : 9287725.0/38

Out: 65.789+/-0.009 χ^2/NDF : 10594917.9/41

All: 66.306+/-0.007 χ^2/NDF : 19888825.4/80

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -2169.866 $\pm$ 502.220 χ^2 /NDF: 22.2/15

Left Out: -432.330 $\pm$ 114.408 χ^2 /NDF:59.4/24

Right Out: 1693.920 $\pm$ 528.541 χ^2 /NDF: 13.8/16

Left In: 1.825 $\pm$ 116.459 χ^2 /NDF:32.3/22

Left: -219.109 $\pm$ 81.614 χ^2 /NDF: 98.8/47

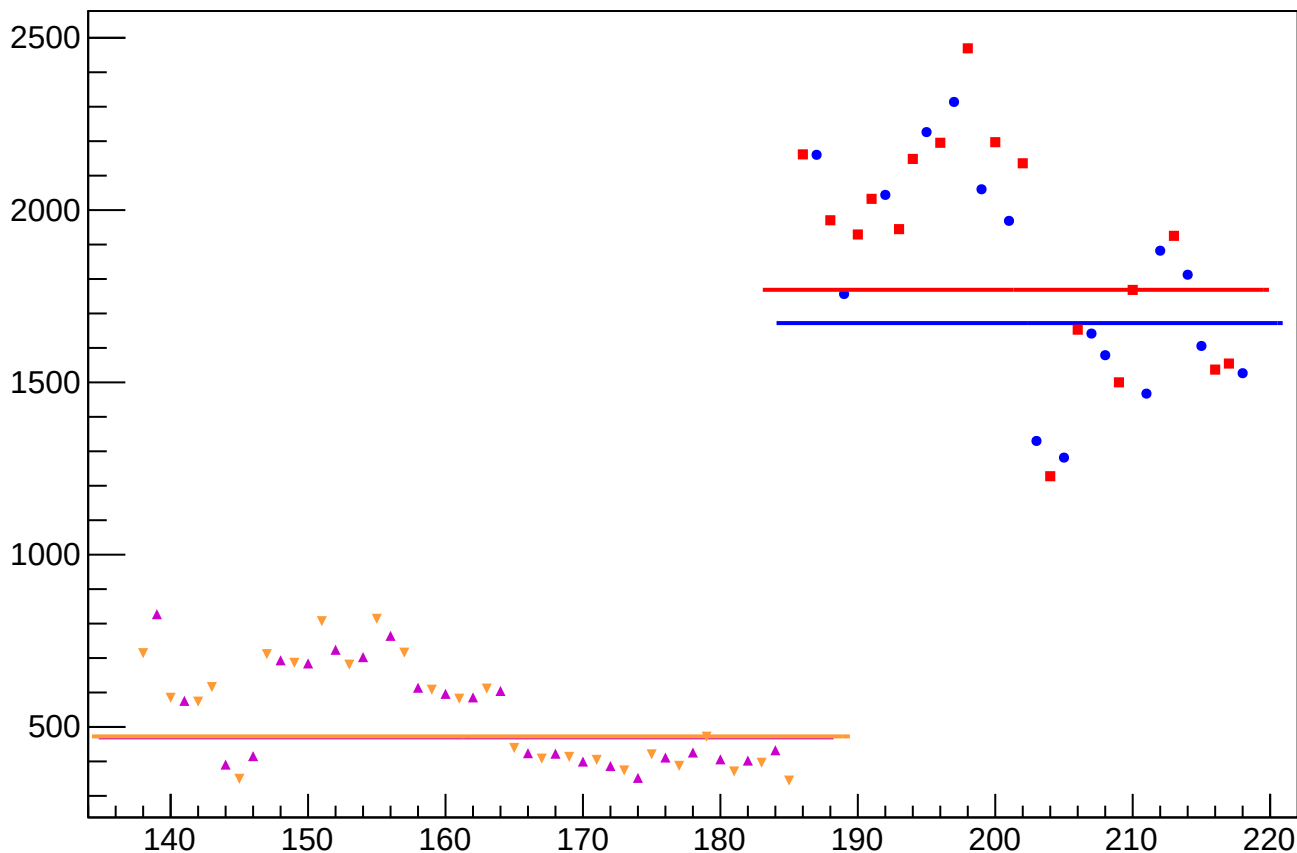
Right: -336.572 $\pm$ 364.073 χ^2 /NDF: 64.0/32

In: -108.992 $\pm$ 113.449 χ^2 /NDF:72.2/38

Out: -337.164 $\pm$ 111.818 χ^2 /NDF:88.6/41

All: -224.729 $\pm$ 79.638 χ^2 /NDF: 162.9/80

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Left: 471.190 +/- 0.058 χ^2/NDF : 4625646.2/47

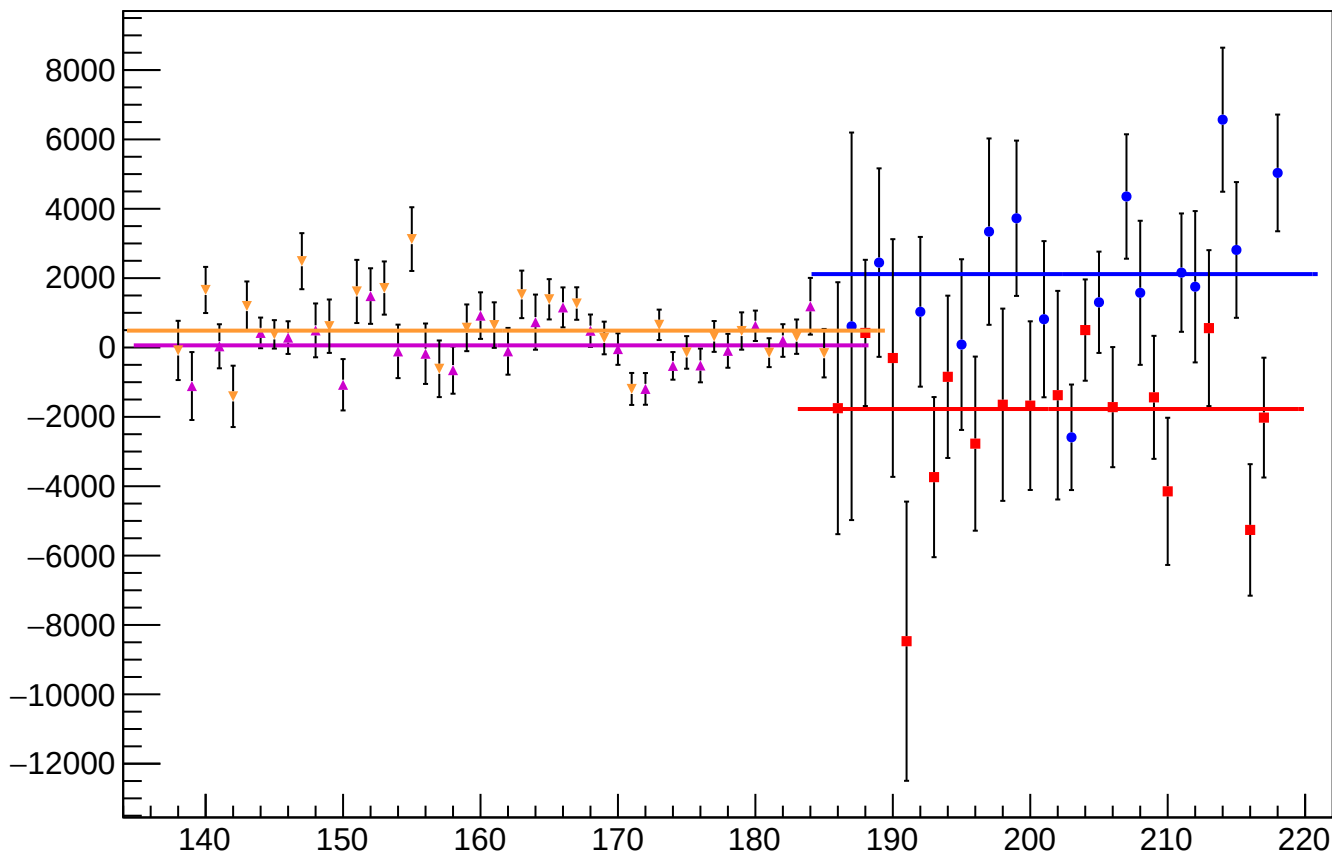
Right: 1717.918 +/- 0.257 χ^2/NDF : 1559886.1/32

In: 531.114 +/- 0.080 χ^2/NDF : 13712557.8/38

Out: 530.580 +/- 0.079 χ^2/NDF : 14803751.3/41

All: 530.843 +/- 0.056 χ^2/NDF : 28516331.6/80

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 2116.500+/-504.725 χ^2/NDF : 21.3/15

Left Out: 486.645+/-115.346 χ^2/NDF :56.0/24

Right Out: -1773.399+/-531.496 χ^2/NDF : 13.3/16

Left In: 61.775+/-117.449 χ^2/NDF :31.2/22

Left: 278.047+/-82.295 χ^2/NDF : 93.8/47

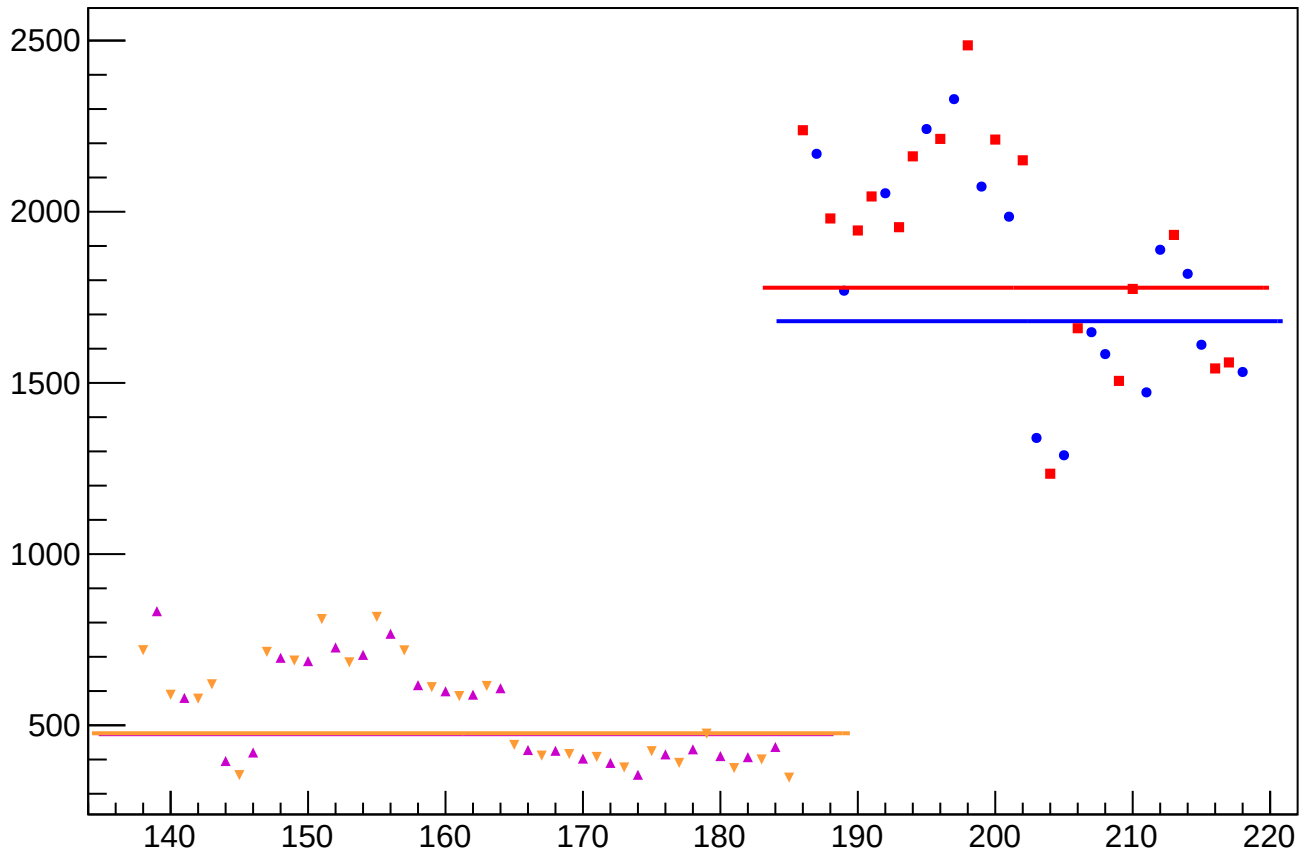
Right: 271.982+/-365.993 χ^2/NDF : 62.8/32

In: 167.320+/-114.393 χ^2/NDF :68.2/38

Out: 384.989+/-112.722 χ^2/NDF :86.6/41

All: 277.755+/-80.291 χ^2/NDF : 156.6/80

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1680.326+/-0.357 χ^2/NDF : 720511.1/15

Left Out: 476.690+/-0.082 χ^2/NDF : 2472737.6/24

Right Out: 1778.104+/-0.376 χ^2/NDF : 819505.6/16

Left In: 473.983+/-0.083 χ^2/NDF : 2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47

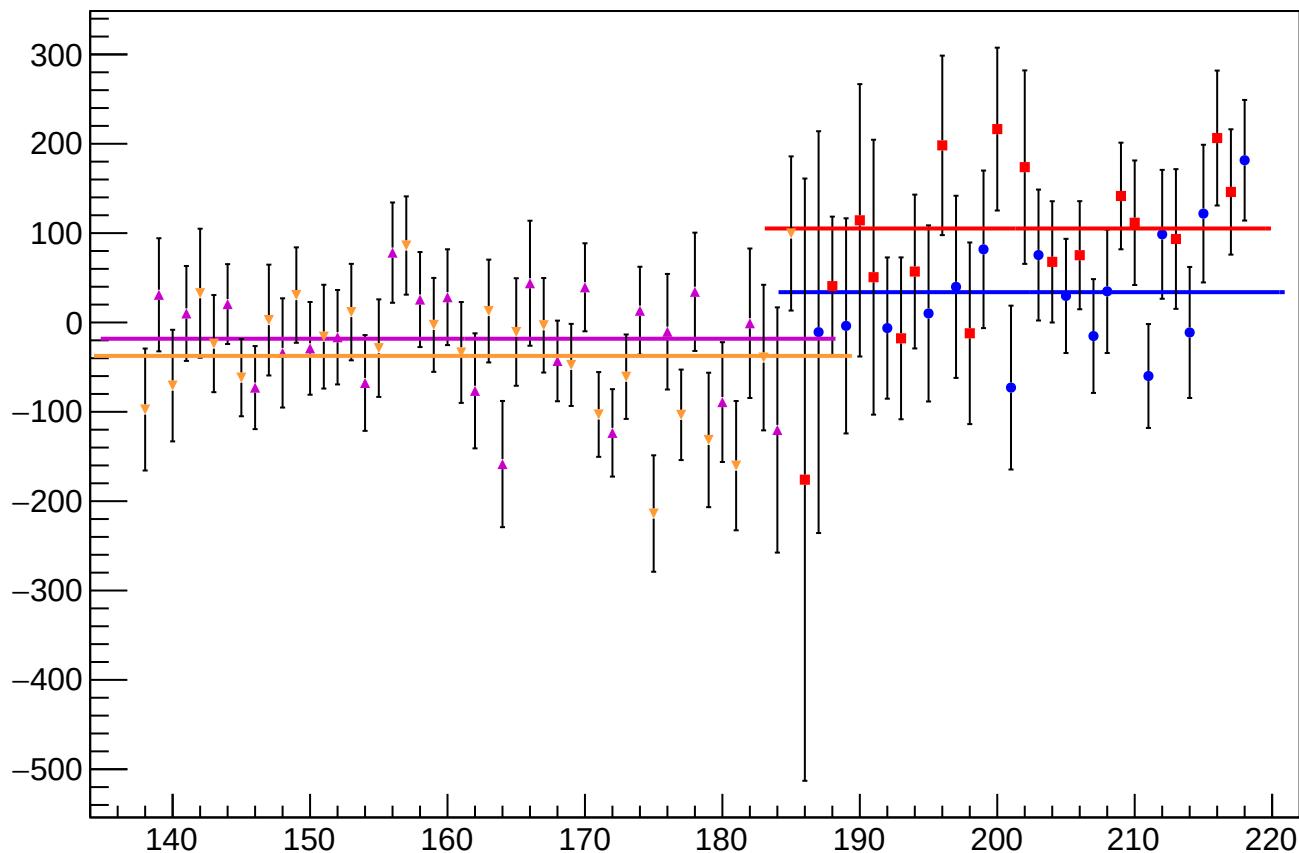
Right: 1726.690+/-0.259 χ^2/NDF : 1575608.1/32

In: 535.950+/-0.081 χ^2/NDF : 13645910.3/38

Out: 535.227+/-0.080 χ^2/NDF : 14744025.9/41

All: 535.583+/-0.057 χ^2/NDF : 28389976.7/80

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 33.912 ± 19.443 χ^2/NDF : 12.9/15

Left Out: -37.413 ± 11.390 χ^2/NDF : 30.5/24

Right Out: 105.178 ± 20.256 χ^2/NDF : 10.8/16

Left In: -18.210 ± 11.788 χ^2/NDF : 23.0/22

Left: -28.141 ± 8.191 χ^2/NDF : 54.8/47

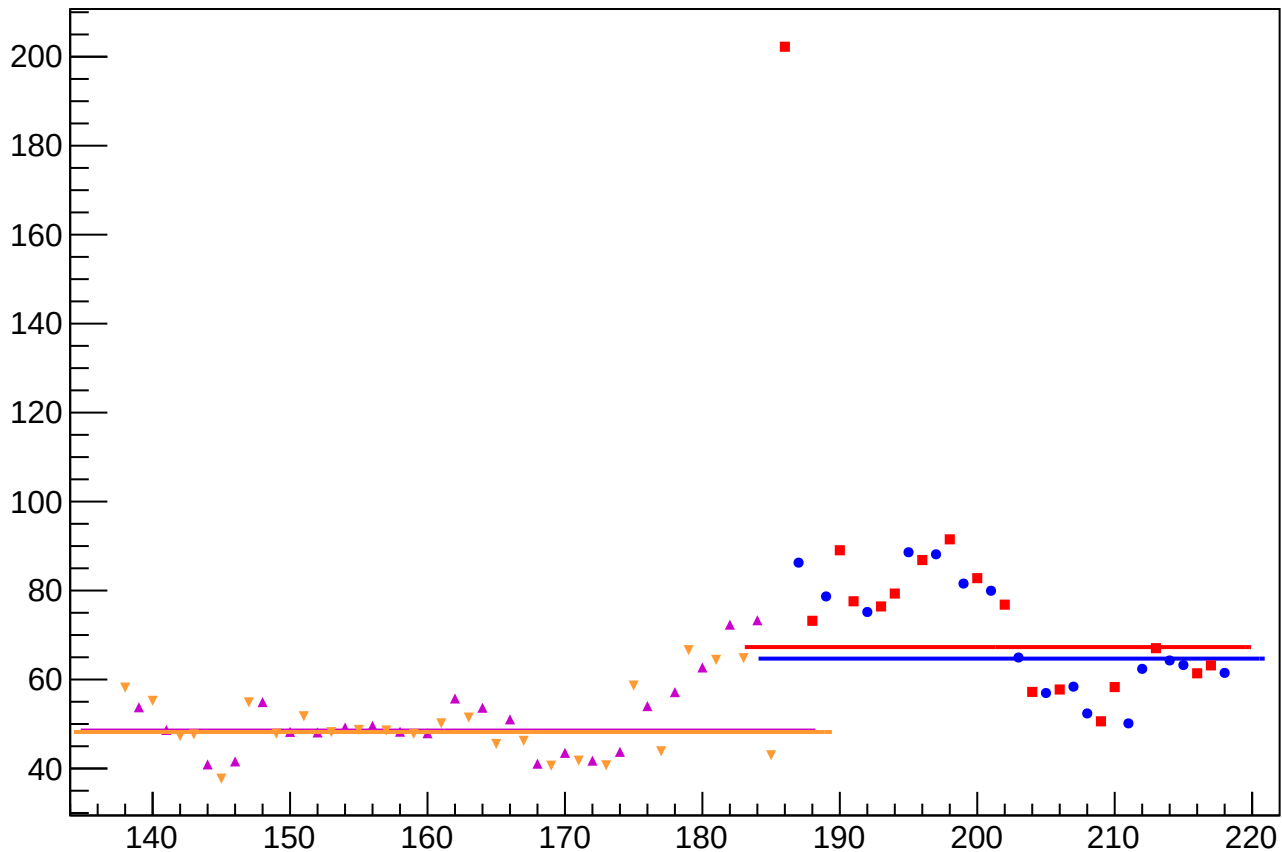
Right: 68.087 ± 14.027 χ^2/NDF : 30.2/32

In: -4.201 ± 10.080 χ^2/NDF : 41.2/38

Out: -3.159 ± 9.928 χ^2/NDF : 79.0/41

All: -3.672 ± 7.073 χ^2/NDF : 120.1/80

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.701 ± 0.014 $\chi^2/\text{NDF}: 677938.8/15$

Left Out: 48.200 ± 0.008 $\chi^2/\text{NDF}: 750196.2/24$

Right Out: 67.291 ± 0.014 $\chi^2/\text{NDF}: 1006598.9/16$

Left In: 48.527 ± 0.008 $\chi^2/\text{NDF}: 675340.8/22$

Left: 48.358 ± 0.006 $\chi^2/\text{NDF}: 1426333.4/47$

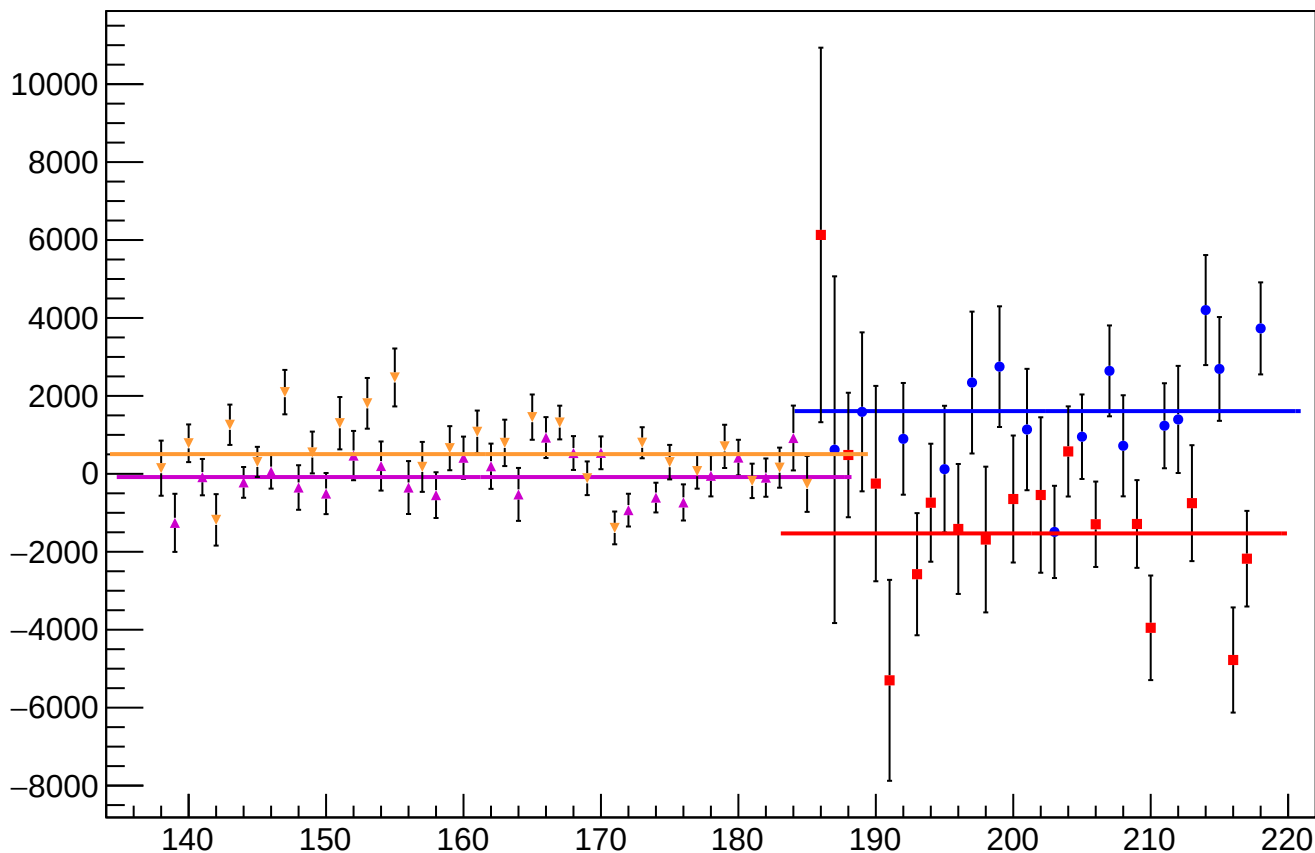
Right: 65.943 ± 0.010 $\chi^2/\text{NDF}: 1701557.9/32$

In: 52.874 ± 0.007 $\chi^2/\text{NDF}: 2365332.7/38$

Out: 52.786 ± 0.007 $\chi^2/\text{NDF}: 3106711.7/41$

All: 52.829 ± 0.005 $\chi^2/\text{NDF}: 5472121.8/80$

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1609.777+/-346.433 χ^2/NDF : 17.8/15

Left Out: 506.205+/-103.468 χ^2/NDF : 65.7/24

Right Out: -1528.878+/-366.328 χ^2/NDF : 20.8/16

Left In: -82.421+/-105.935 χ^2/NDF : 25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

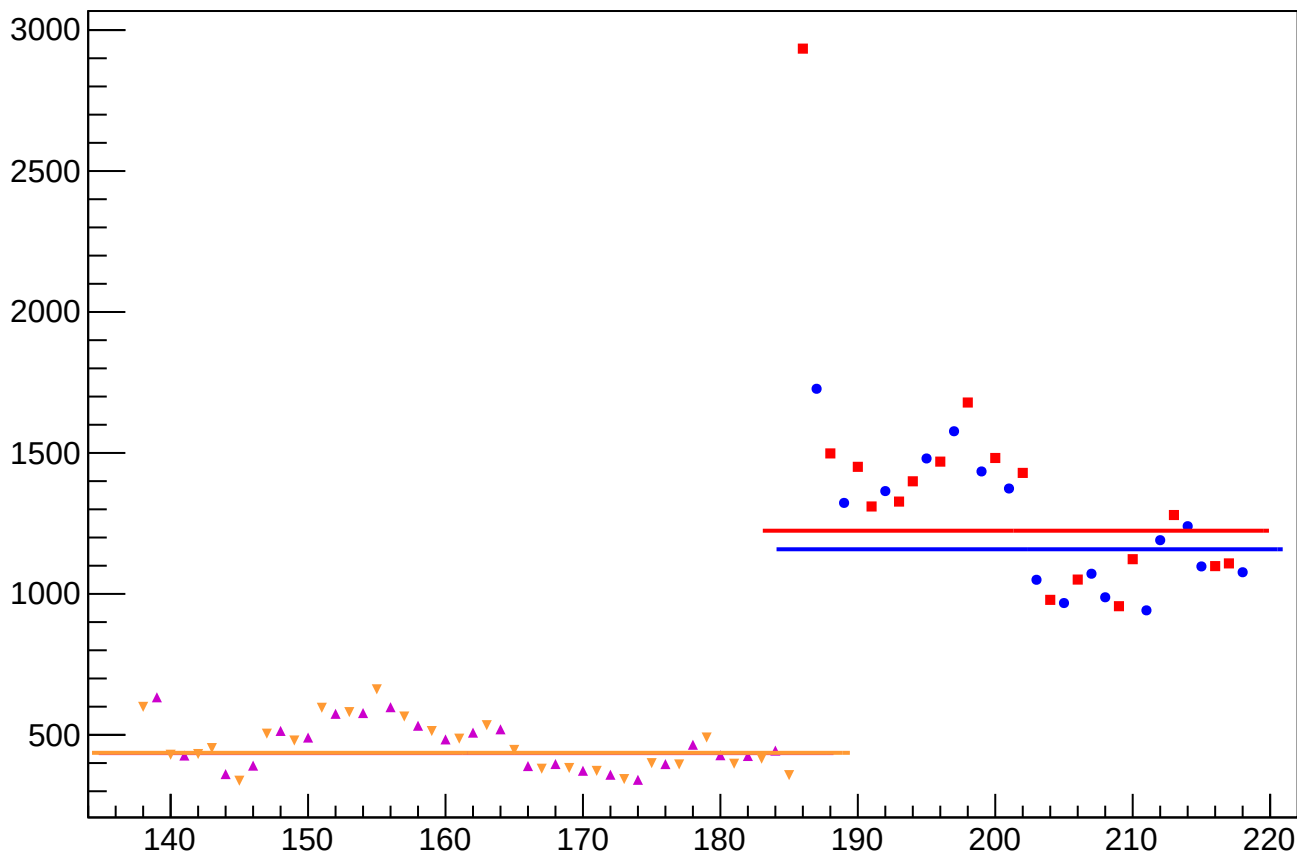
Right: 127.988+/-251.705 χ^2/NDF : 77.4/32

In: 62.280+/-101.305 χ^2/NDF : 65.0/38

Out: 355.850+/-99.572 χ^2/NDF : 115.1/41

All: 211.597+/-71.013 χ^2/NDF : 184.3/80

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1158.301+/-0.245 χ^2/NDF : 597886.6/15

Left Out: 436.301+/-0.073 χ^2/NDF : 1179348.4/24

Right Out: 1224.169+/-0.259 χ^2/NDF : 901415.2/16

Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

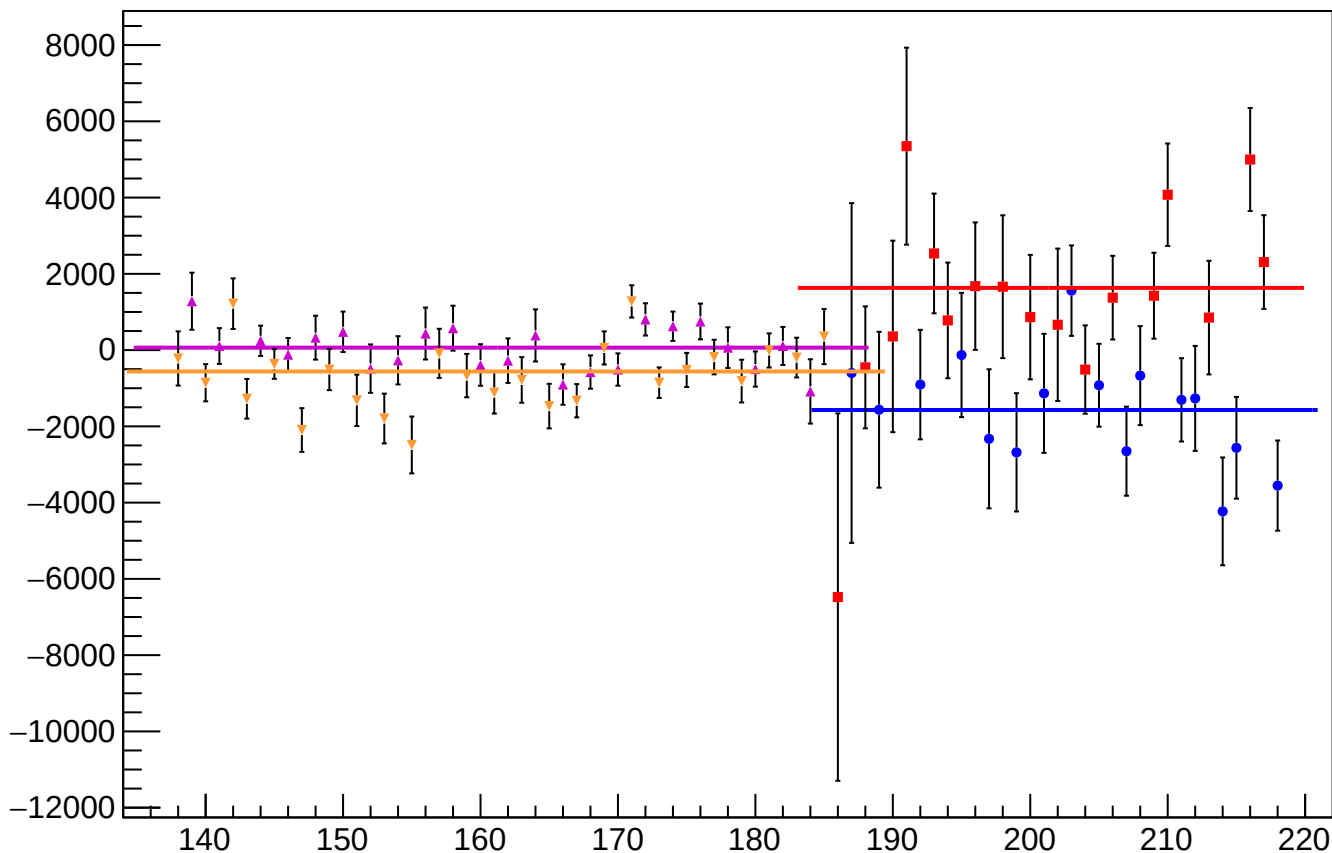
Right: 1189.398+/-0.178 χ^2/NDF : 1533435.3/32

In: 497.102+/-0.072 χ^2/NDF : 9592288.3/38

Out: 494.510+/-0.070 χ^2/NDF : 10648439.0/41

All: 495.784+/-0.050 χ^2/NDF : 20241392.8/80

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1570.484+/-347.010 χ^2/NDF : 17.5/15

Left Out: -560.684+/-104.207 χ^2/NDF :61.8/24

Right Out: 1632.301+/-366.926 χ^2/NDF : 21.6/16

Left In: 64.594+/-106.708 χ^2/NDF :25.2/22

Left: -255.457+/-74.554 χ^2/NDF : 104.5/47

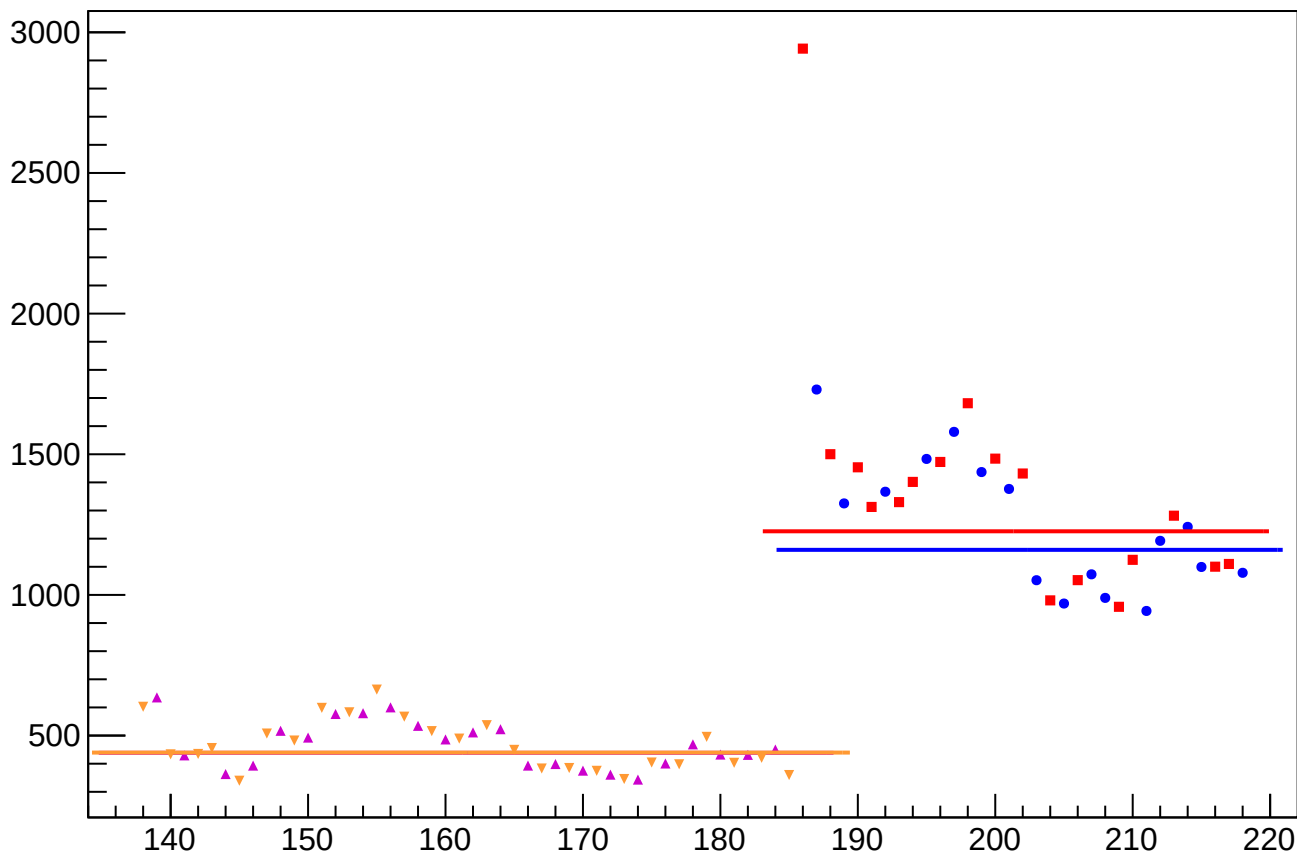
Right: -58.365+/-252.120 χ^2/NDF : 79.2/32

In: -76.661+/-101.994 χ^2/NDF :62.9/38

Out: -397.007+/-100.243 χ^2/NDF :116.4/41

All: -239.608+/-71.494 χ^2/NDF : 184.3/80

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1160.225+/-0.245 χ^2/NDF : 598253.8/15

Left Out: 439.527+/-0.074 χ^2/NDF :1163352.8/24

Right Out: 1226.151+/-0.259 χ^2/NDF : 902094.5/16

Left In: 438.548+/-0.075 χ^2/NDF :1013071.4/22

Left: 439.049+/-0.053 χ^2/NDF : 2176510.4/47

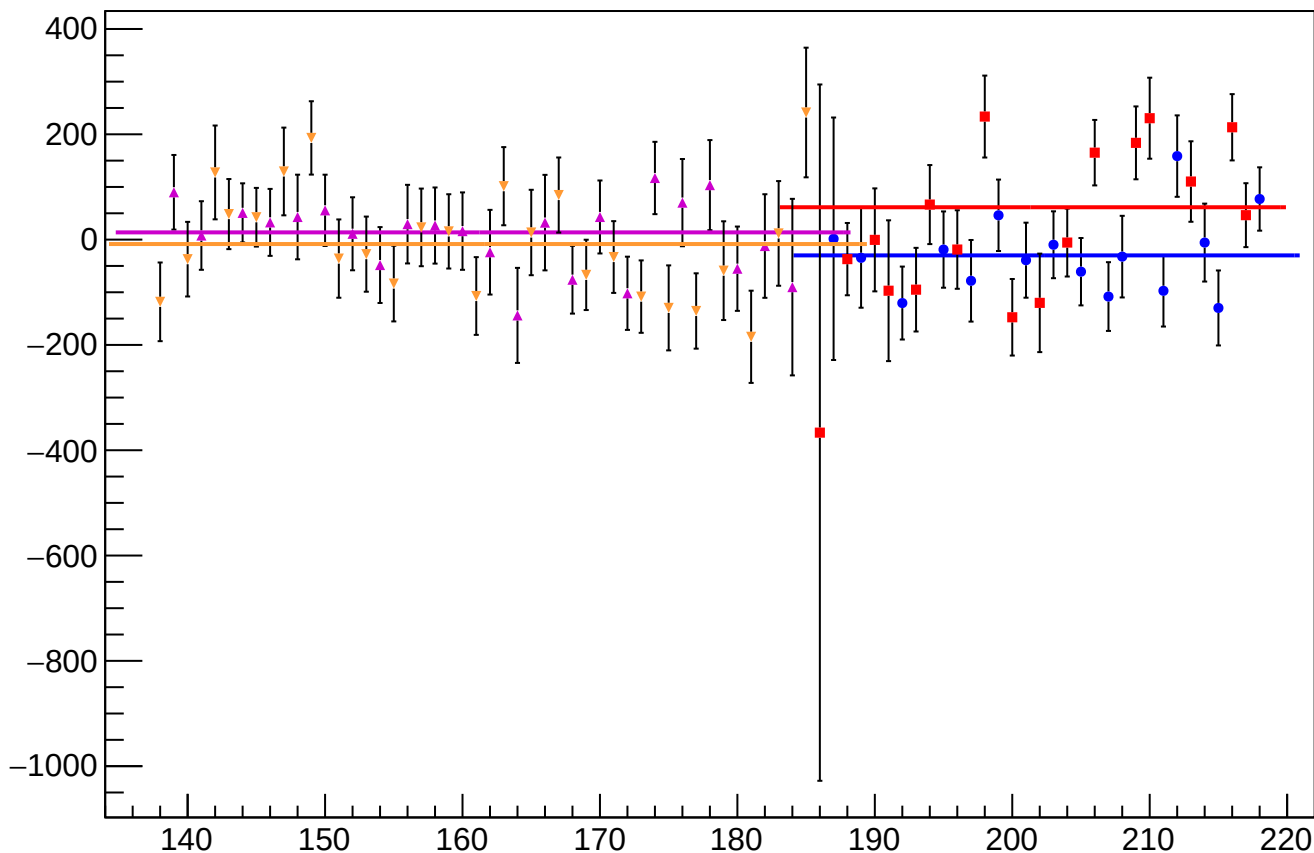
Right: 1191.350+/-0.178 χ^2/NDF : 1534429.2/32

In: 500.894+/-0.072 χ^2/NDF :9514341.9/38

Out: 498.238+/-0.071 χ^2/NDF :10571349.7/41

All: 499.543+/-0.051 χ^2/NDF : 20086381.6/80

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -29.968 ± 18.124 $\chi^2/\text{NDF}: 17.4/15$

Left Out: -8.416 ± 14.935 $\chi^2/\text{NDF}: 41.6/24$

Right Out: 61.463 ± 18.470 $\chi^2/\text{NDF}: 44.4/16$

Left In: 13.723 ± 15.478 $\chi^2/\text{NDF}: 16.3/22$

Left: 2.258 ± 10.747 $\chi^2/\text{NDF}: 58.9/47$

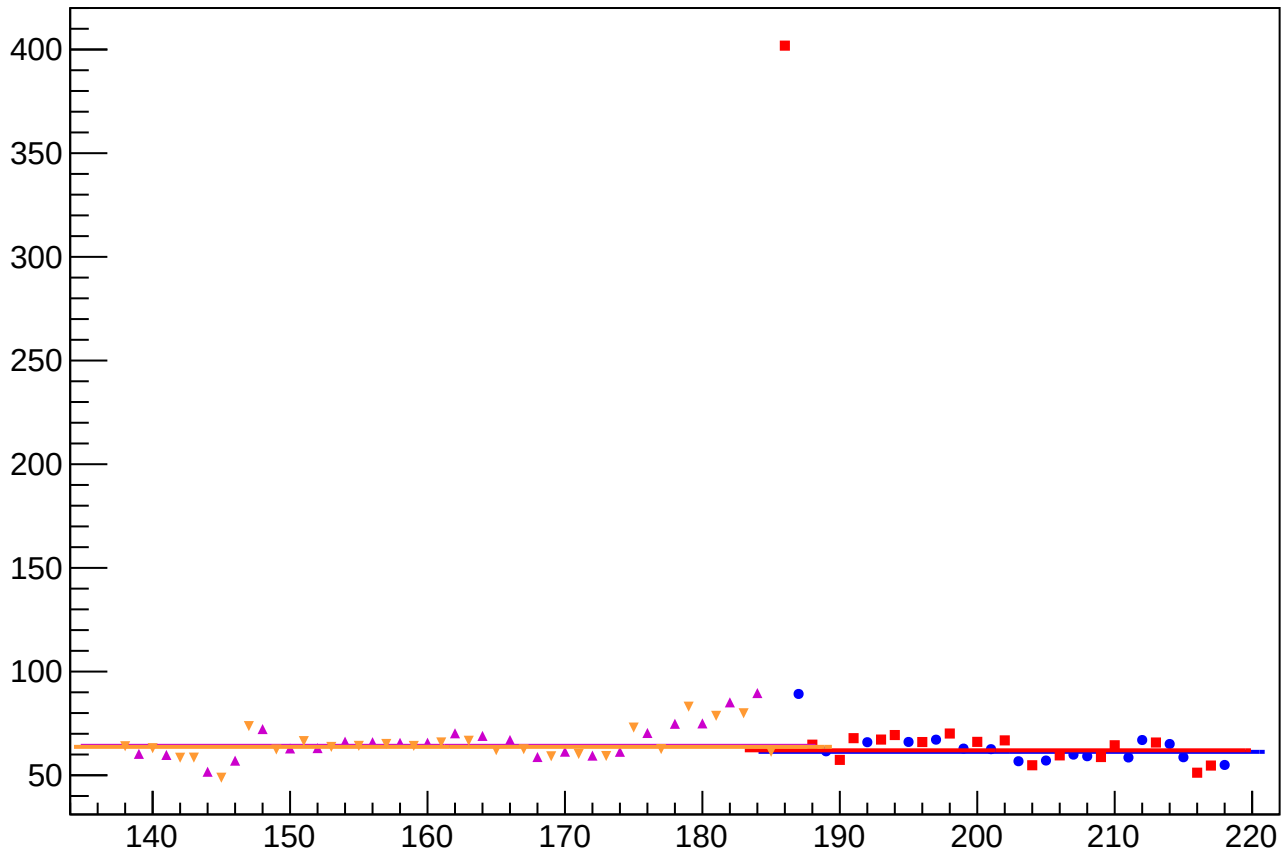
Right: 14.885 ± 12.936 $\chi^2/\text{NDF}: 74.2/32$

In: -4.703 ± 11.770 $\chi^2/\text{NDF}: 37.0/38$

Out: 19.211 ± 11.613 $\chi^2/\text{NDF}: 94.6/41$

All: 7.415 ± 8.267 $\chi^2/\text{NDF}: 133.7/80$

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.285 $\pm$ 0.013 χ^2 /NDF: 125599.2/15

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 62.026 $\pm$ 0.013 χ^2 /NDF: 733933.8/16

Left In: 64.189 $\pm$ 0.011 χ^2 /NDF: 429670.3/22

Left: 63.934 $\pm$ 0.008 χ^2 /NDF: 879161.0/47

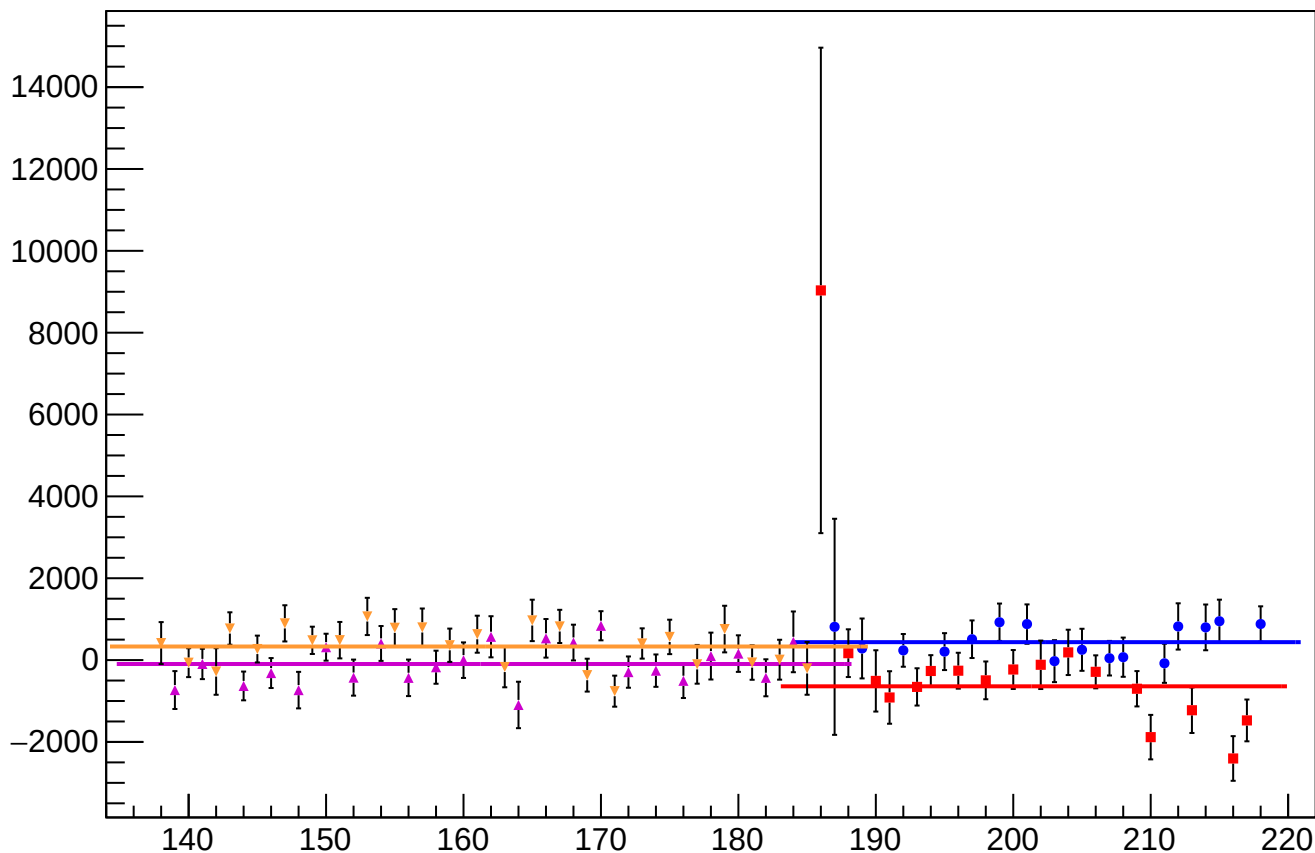
Right: 61.648 $\pm$ 0.009 χ^2 /NDF: 861173.1/32

In: 62.964 $\pm$ 0.008 χ^2 /NDF: 584966.8/38

Out: 63.036 $\pm$ 0.008 χ^2 /NDF: 1192261.3/41

All: 63.000 $\pm$ 0.006 χ^2 /NDF: 1777265.4/80

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 438.183 $\pm$ 124.751 χ^2/NDF : 9.0/15

Left Out: 331.739 $\pm$ 86.071 χ^2/NDF : 29.9/24

Right Out: -641.067 $\pm$ 124.548 χ^2/NDF : 30.6/16

Left In: -95.910 $\pm$ 88.656 χ^2/NDF : 28.7/22

Left: 124.240 $\pm$ 61.755 χ^2/NDF : 70.5/47

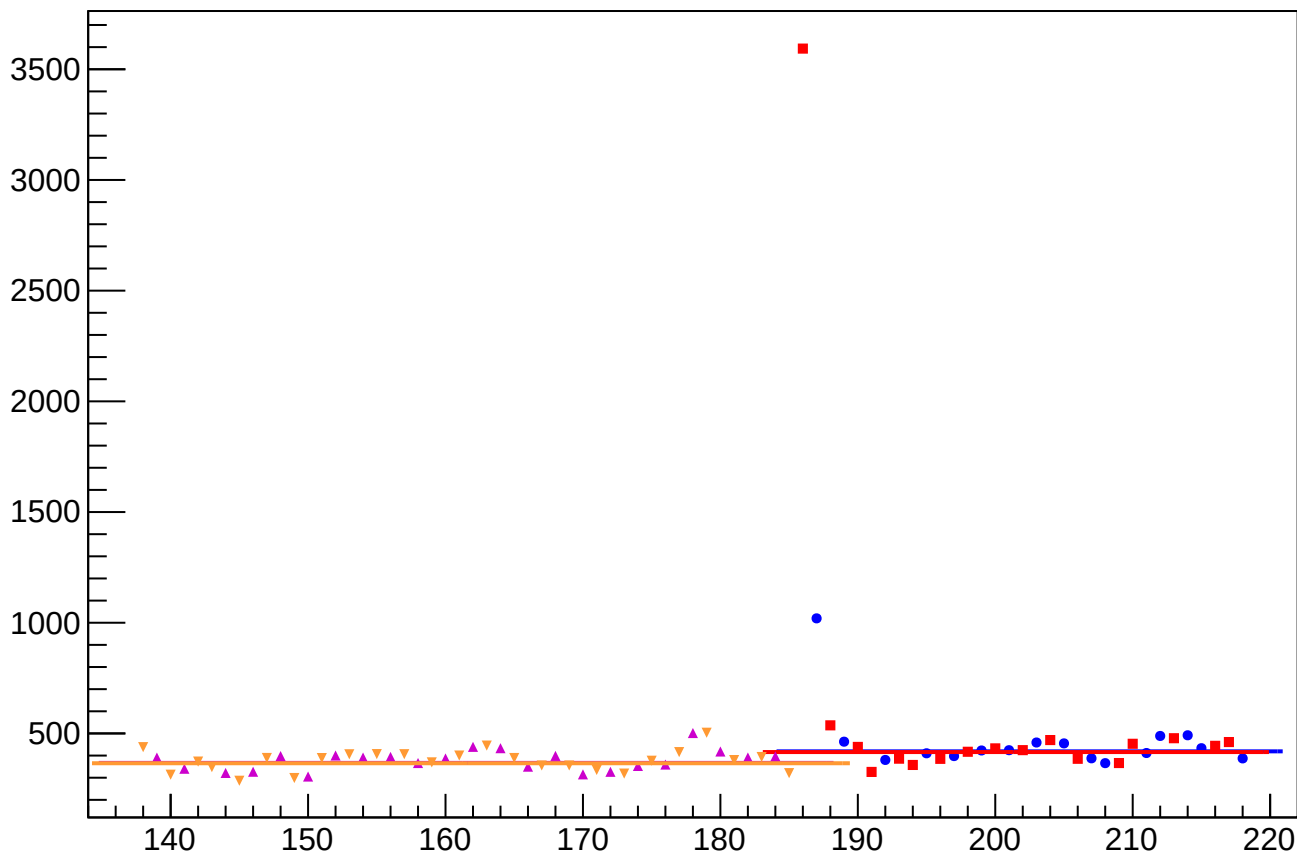
Right: -102.322 $\pm$ 88.141 χ^2/NDF : 77.1/32

In: 83.313 $\pm$ 72.266 χ^2/NDF : 49.9/38

Out: 17.315 $\pm$ 70.808 χ^2/NDF : 101.8/41

All: 49.641 $\pm$ 50.576 χ^2/NDF : 152.1/80

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 419.089+/-0.088 χ^2/NDF : 269488.7/15

Left Out: 365.355+/-0.061 χ^2/NDF : 618453.7/24

Right Out: 415.884+/-0.088 χ^2/NDF : 880134.7/16

Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47

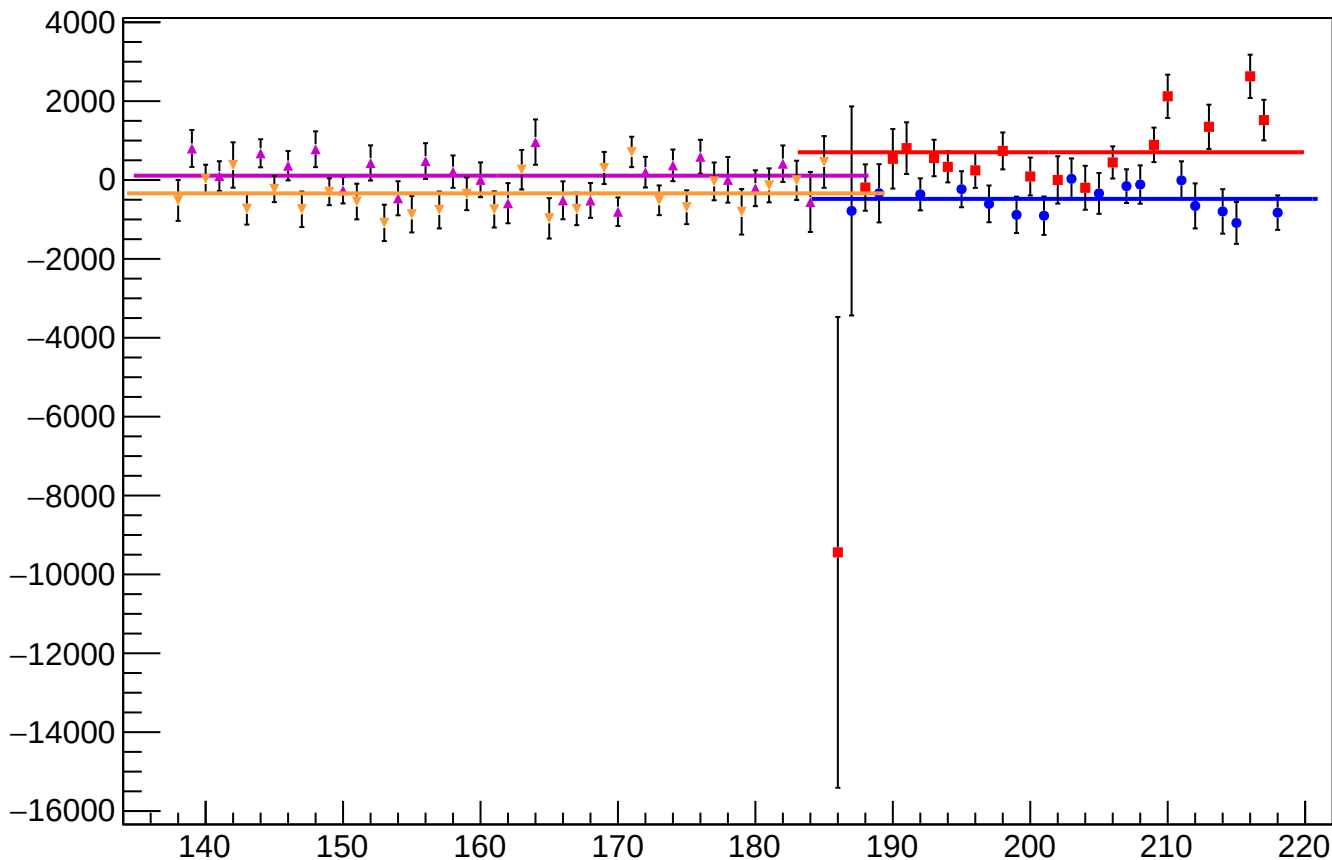
Right: 417.484+/-0.062 χ^2/NDF : 1150284.6/32

In: 384.429+/-0.051 χ^2/NDF : 979922.8/38

Out: 381.687+/-0.050 χ^2/NDF : 1721375.8/41

All: 383.030+/-0.036 χ^2/NDF : 2702768.2/80

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -478.126 $\pm$ 126.186 χ^2 /NDF: 7.5/15

Left Out: -338.528 $\pm$ 87.450 χ^2 /NDF:28.2/24

Right Out: 703.752 $\pm$ 126.107 χ^2 /NDF: 36.3/16

Left In: 110.341 $\pm$ 90.084 χ^2 /NDF:29.2/22

Left: -120.751 $\pm$ 62.747 χ^2 /NDF: 70.2/47

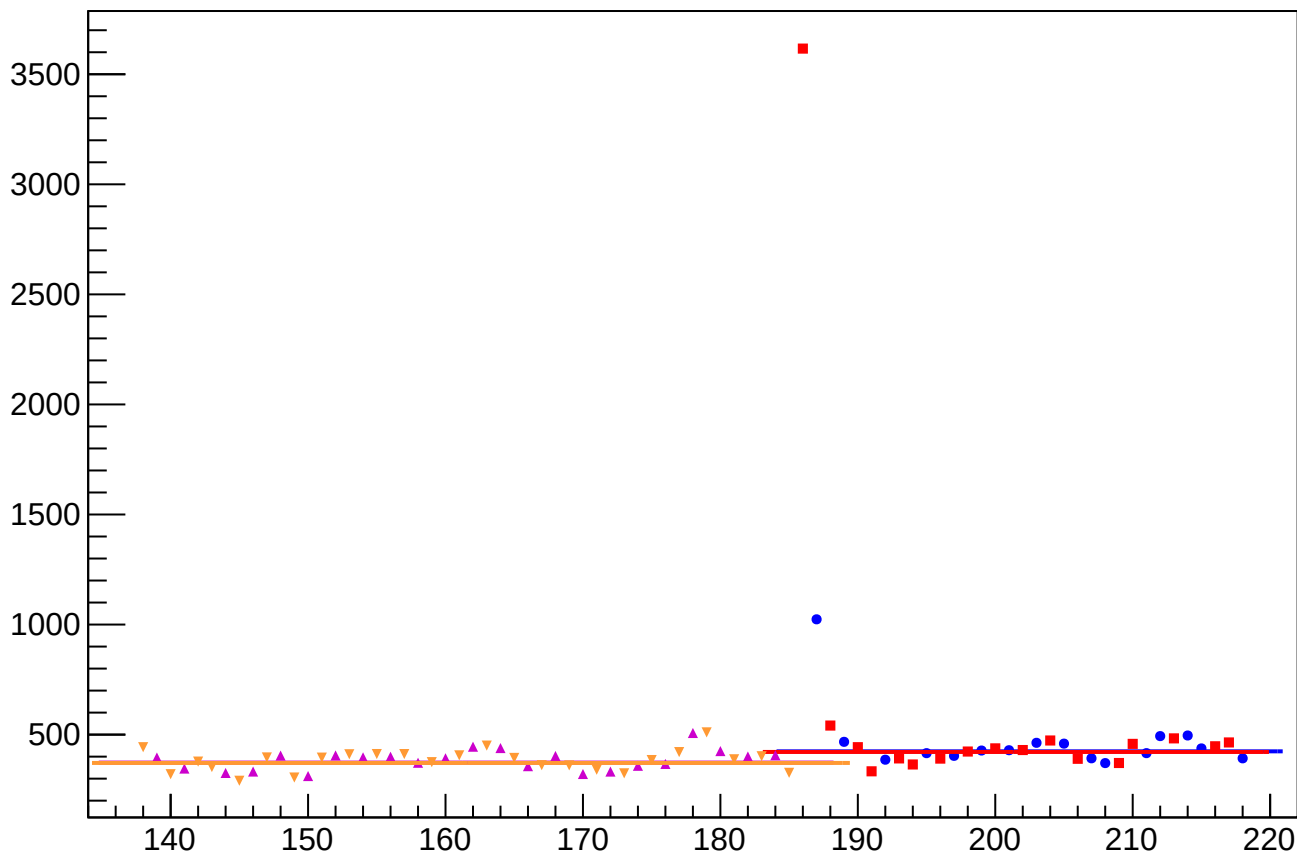
Right: 113.183 $\pm$ 89.199 χ^2 /NDF: 87.7/32

In: -88.322 $\pm$ 73.318 χ^2 /NDF:51.1/38

Out: -0.070 $\pm$ 71.862 χ^2 /NDF:110.7/41

All: -43.311 $\pm$ 51.321 χ^2 /NDF: 162.6/80

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 424.062 $\pm$ 0.089 χ^2 /NDF: 261467.5/15

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 421.297 $\pm$ 0.089 χ^2 /NDF: 862724.1/16

Left In: 372.938 $\pm$ 0.064 χ^2 /NDF: 467340.9/22

Left: 372.123 $\pm$ 0.044 χ^2 /NDF: 1071729.1/47

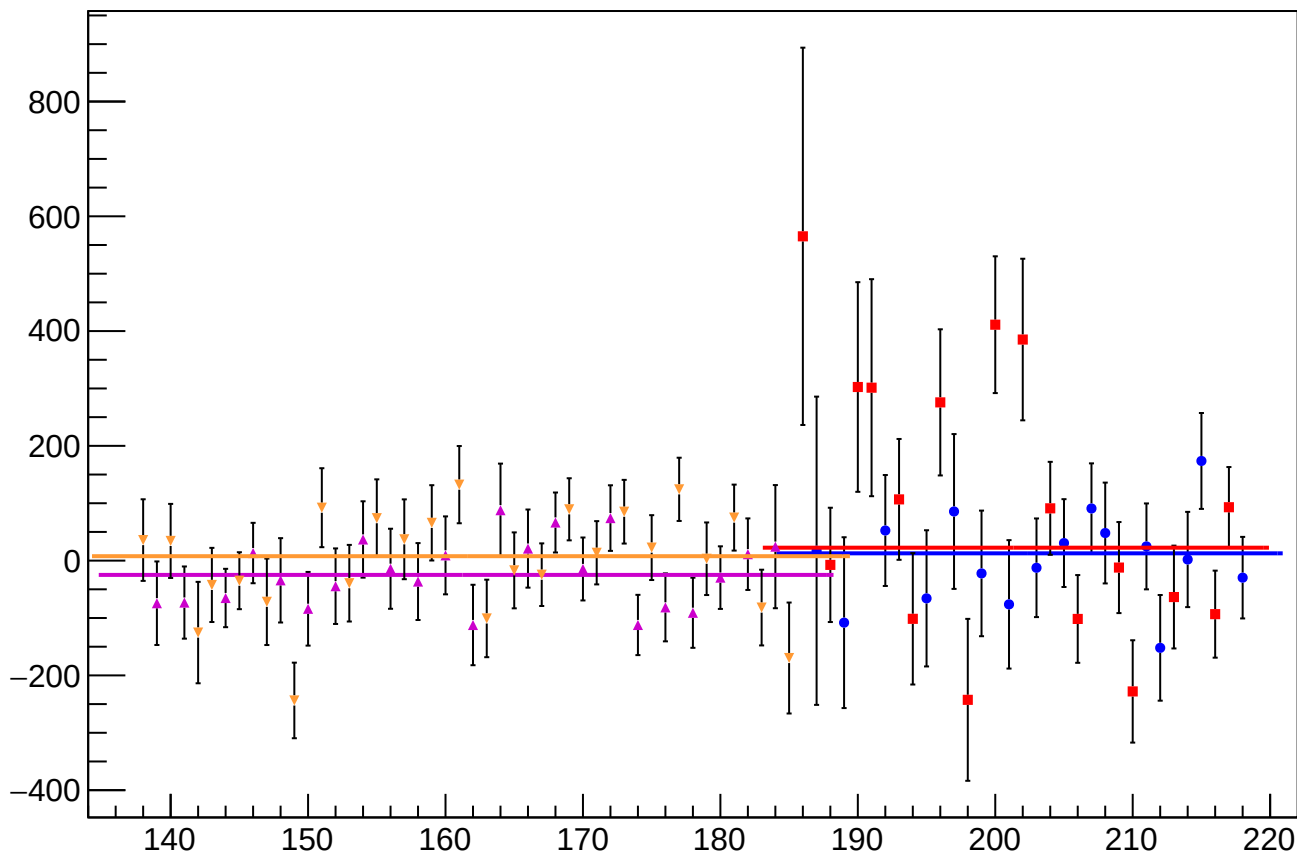
Right: 422.678 $\pm$ 0.063 χ^2 /NDF: 1124672.2/32

In: 390.197 $\pm$ 0.052 χ^2 /NDF: 946270.5/38

Out: 387.573 $\pm$ 0.051 χ^2 /NDF: 1678600.1/41

All: 388.859 $\pm$ 0.036 χ^2 /NDF: 2626177.0/80

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 12.702 $\pm$ 23.339 χ^2 /NDF: 10.9/15

Left Out: 7.723 $\pm$ 12.656 χ^2 /NDF:45.4/24

Right Out: 22.538 $\pm$ 24.412 χ^2 /NDF: 49.6/16

Left In: -24.887 $\pm$ 13.029 χ^2 /NDF:19.7/22

Left: -8.108 $\pm$ 9.078 χ^2 /NDF: 68.4/47

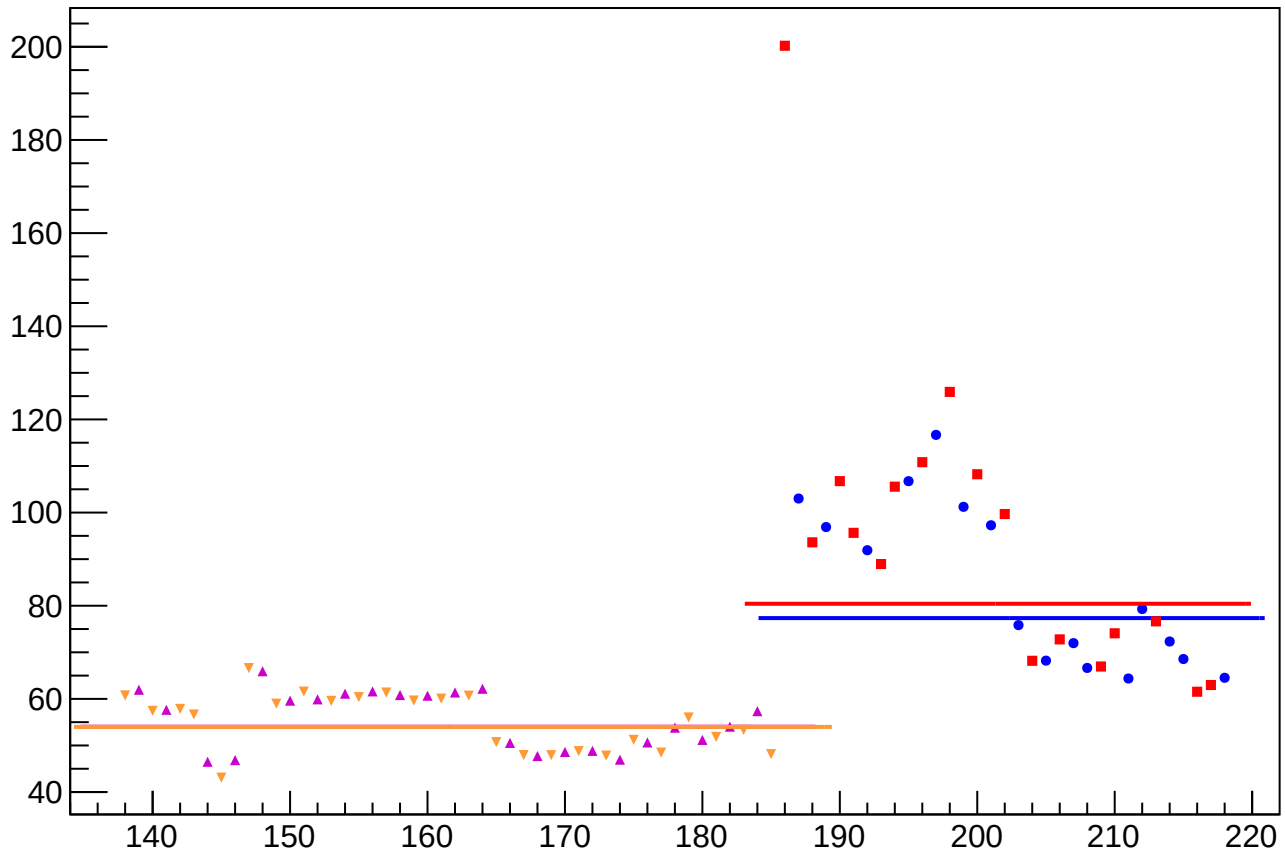
Right: 17.399 $\pm$ 16.870 χ^2 /NDF: 60.6/32

In: -15.957 $\pm$ 11.376 χ^2 /NDF:32.6/38

Out: 10.862 $\pm$ 11.236 χ^2 /NDF:95.3/41

All: -2.381 $\pm$ 7.994 χ^2 /NDF: 130.7/80

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 77.347 $\pm$ 0.017 χ^2 /NDF: 773250.1/15

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 80.426 $\pm$ 0.017 χ^2 /NDF: 1318271.5/16

Left In: 54.028 $\pm$ 0.009 χ^2 /NDF: 443819.5/22

Left: 54.005 $\pm$ 0.006 χ^2 /NDF: 902803.3/47

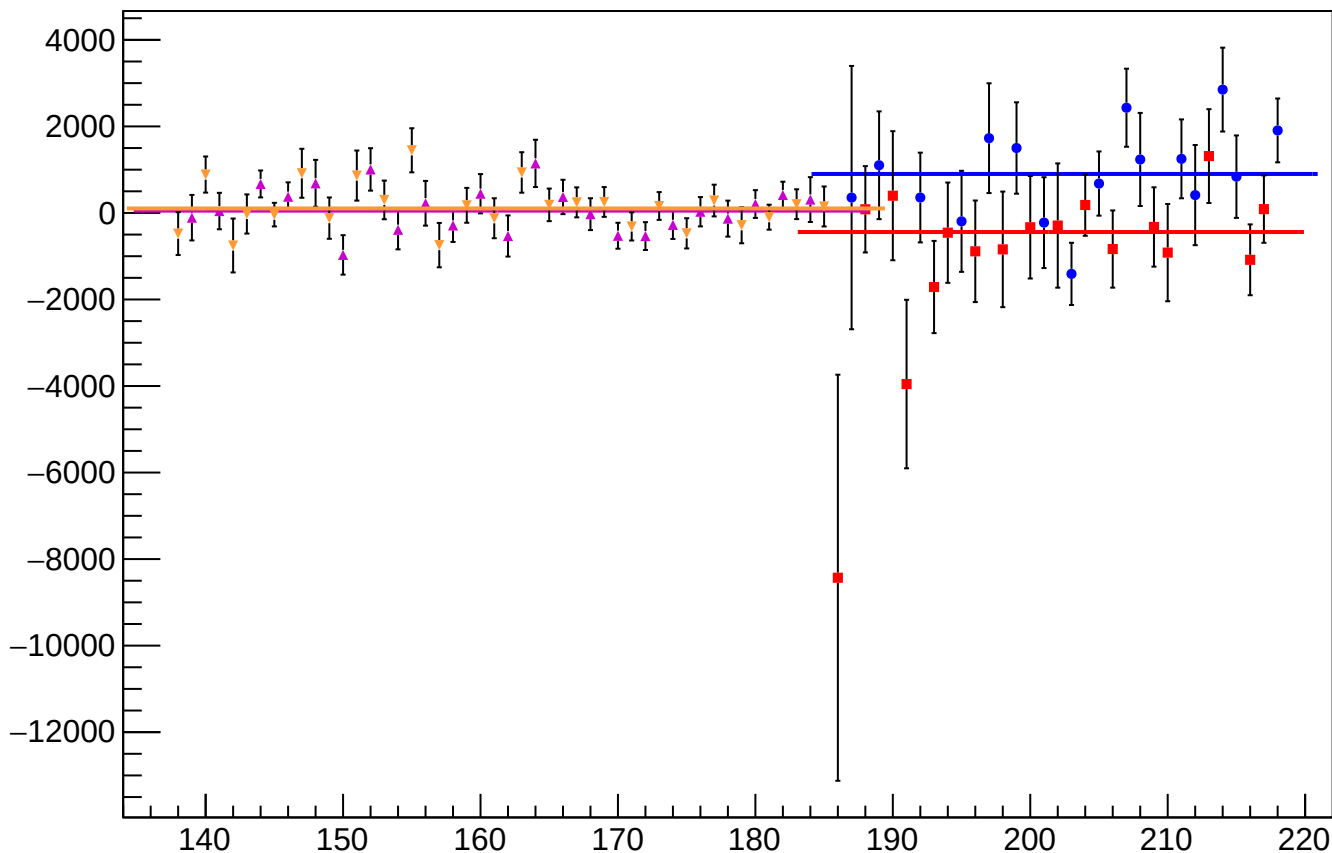
Right: 78.817 $\pm$ 0.012 χ^2 /NDF: 2108143.5/32

In: 59.568 $\pm$ 0.008 χ^2 /NDF: 2739328.1/38

Out: 59.585 $\pm$ 0.008 χ^2 /NDF: 3626687.3/41

All: 59.577 $\pm$ 0.006 χ^2 /NDF: 6366017.6/80

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 901.051 $\pm$ 245.133 χ^2 /NDF: 22.7/15

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -440.887 $\pm$ 257.528 χ^2 /NDF: 13.3/16

Left In: 53.493 $\pm$ 81.201 χ^2 /NDF:34.1/22

Left: 79.212 $\pm$ 56.750 χ^2 /NDF: 65.3/47

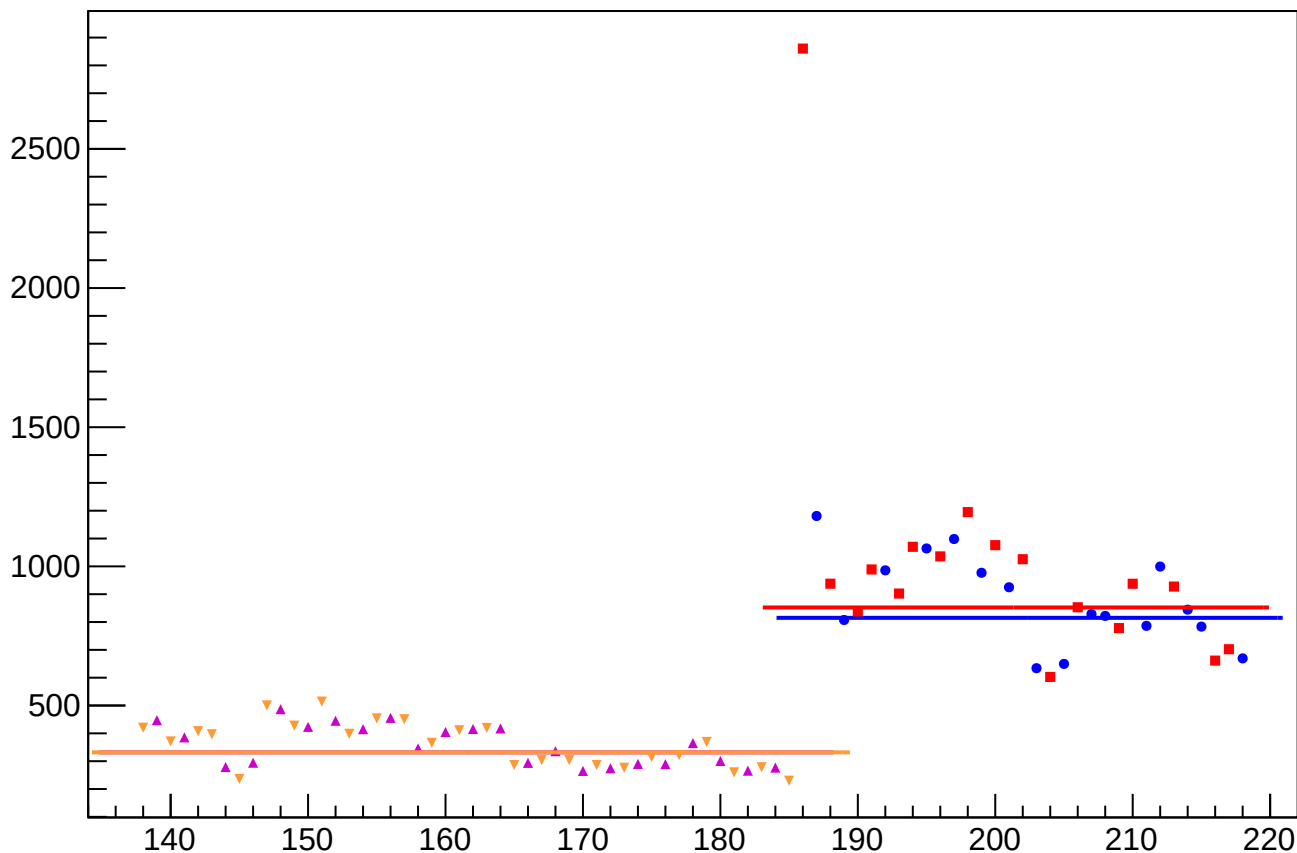
Right: 263.150 $\pm$ 177.556 χ^2 /NDF: 50.3/32

In: 137.298 $\pm$ 77.082 χ^2 /NDF:67.6/38

Out: 56.548 $\pm$ 75.827 χ^2 /NDF:48.3/41

All: 96.260 $\pm$ 54.056 χ^2 /NDF: 116.5/80

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 815.085 $\pm$ 0.173 χ^2 /NDF: 704440.8/15

Left Out: 331.770 $\pm$ 0.056 χ^2 /NDF:1711721.9/24

Right Out: 852.319 $\pm$ 0.182 χ^2 /NDF: 1210697.9/16

Left In: 331.666 $\pm$ 0.057 χ^2 /NDF:1303192.2/22

Left: 331.719 $\pm$ 0.040 χ^2 /NDF: 3014915.7/47

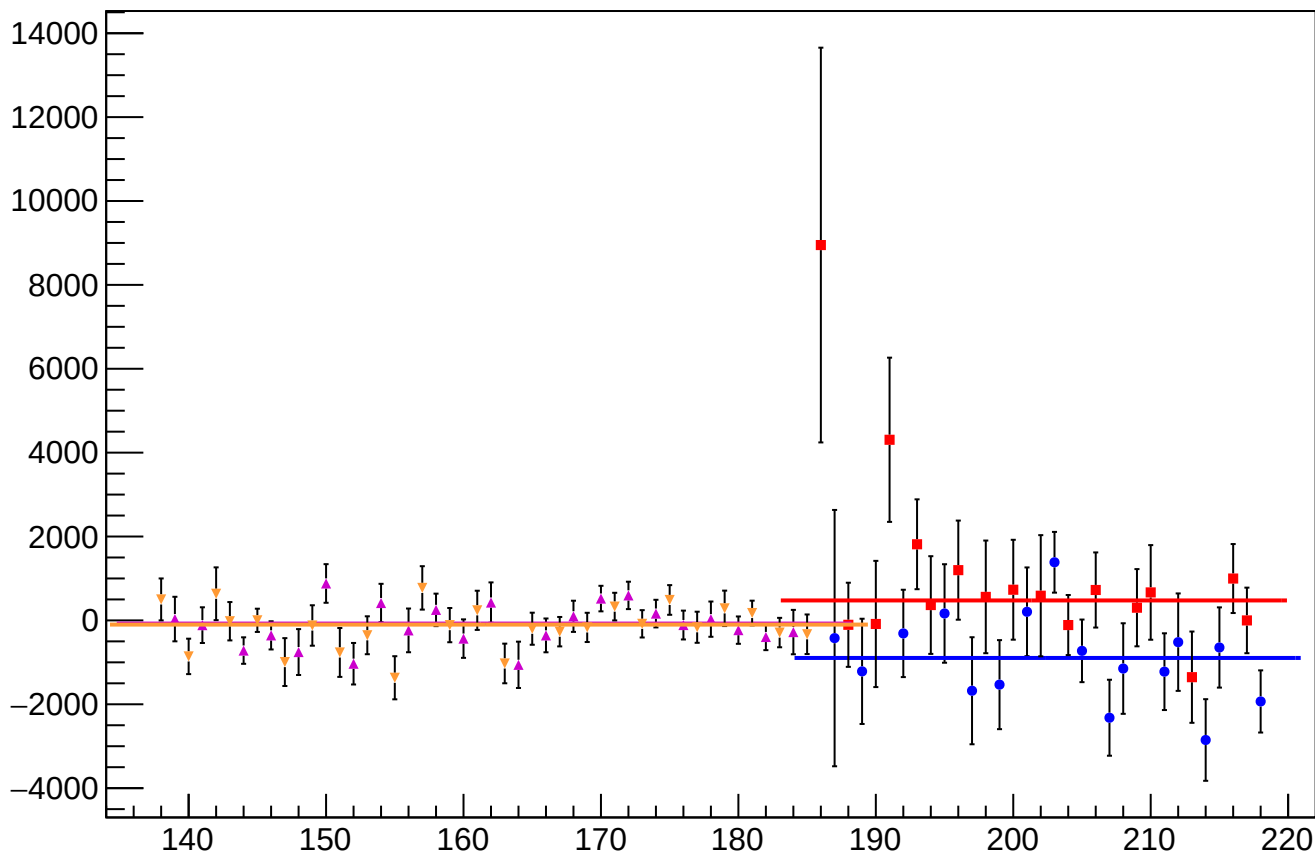
Right: 832.785 $\pm$ 0.126 χ^2 /NDF: 1937073.2/32

In: 379.466 $\pm$ 0.055 χ^2 /NDF:9016638.9/38

Out: 376.900 $\pm$ 0.054 χ^2 /NDF:10385557.8/41

All: 378.162 $\pm$ 0.038 χ^2 /NDF: 19403322.9/80

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -895.286 ± 246.410 χ^2/NDF : 21.8/15

Left Out: -99.785 ± 80.428 χ^2/NDF : 30.7/24

Right Out: 475.952 ± 258.827 χ^2/NDF : 14.0/16

Left In: -75.579 ± 82.319 χ^2/NDF : 32.1/22

Left: -87.963 ± 57.528 χ^2/NDF : 62.8/47

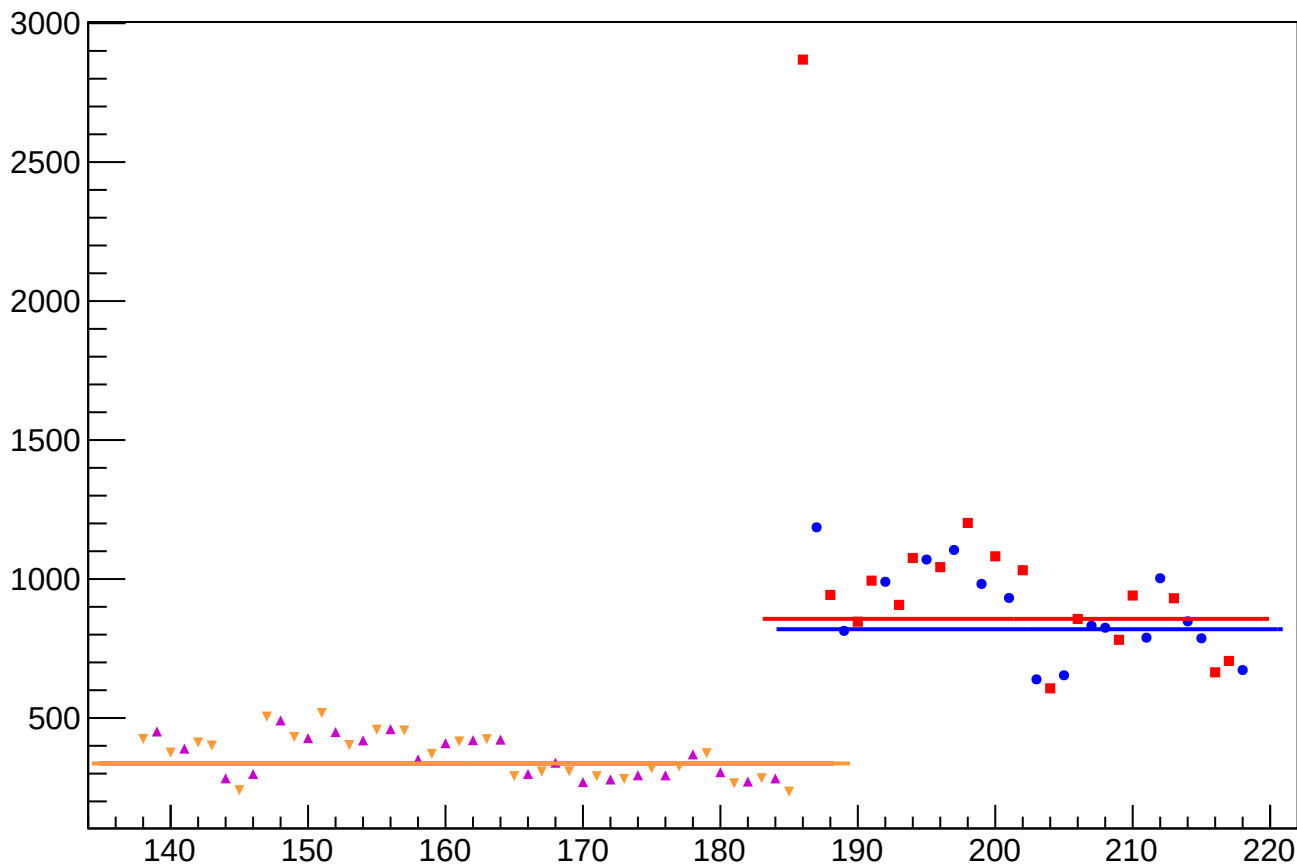
Right: -243.350 ± 178.466 χ^2/NDF : 50.5/32

In: -157.877 ± 78.077 χ^2/NDF : 63.9/38

Out: -49.088 ± 76.805 χ^2/NDF : 49.1/41

All: -102.589 ± 54.754 χ^2/NDF : 114.0/80

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 819.426+/-0.174 χ^2/NDF : 701011.1/15

Left Out: 336.557+/-0.057 χ^2/NDF :1665919.4/24

Right Out: 856.685+/-0.183 χ^2/NDF : 1209552.8/16

Left In: 336.439+/-0.058 χ^2/NDF :1269066.3/22

Left: 336.500+/-0.041 χ^2/NDF : 2934987.9/47

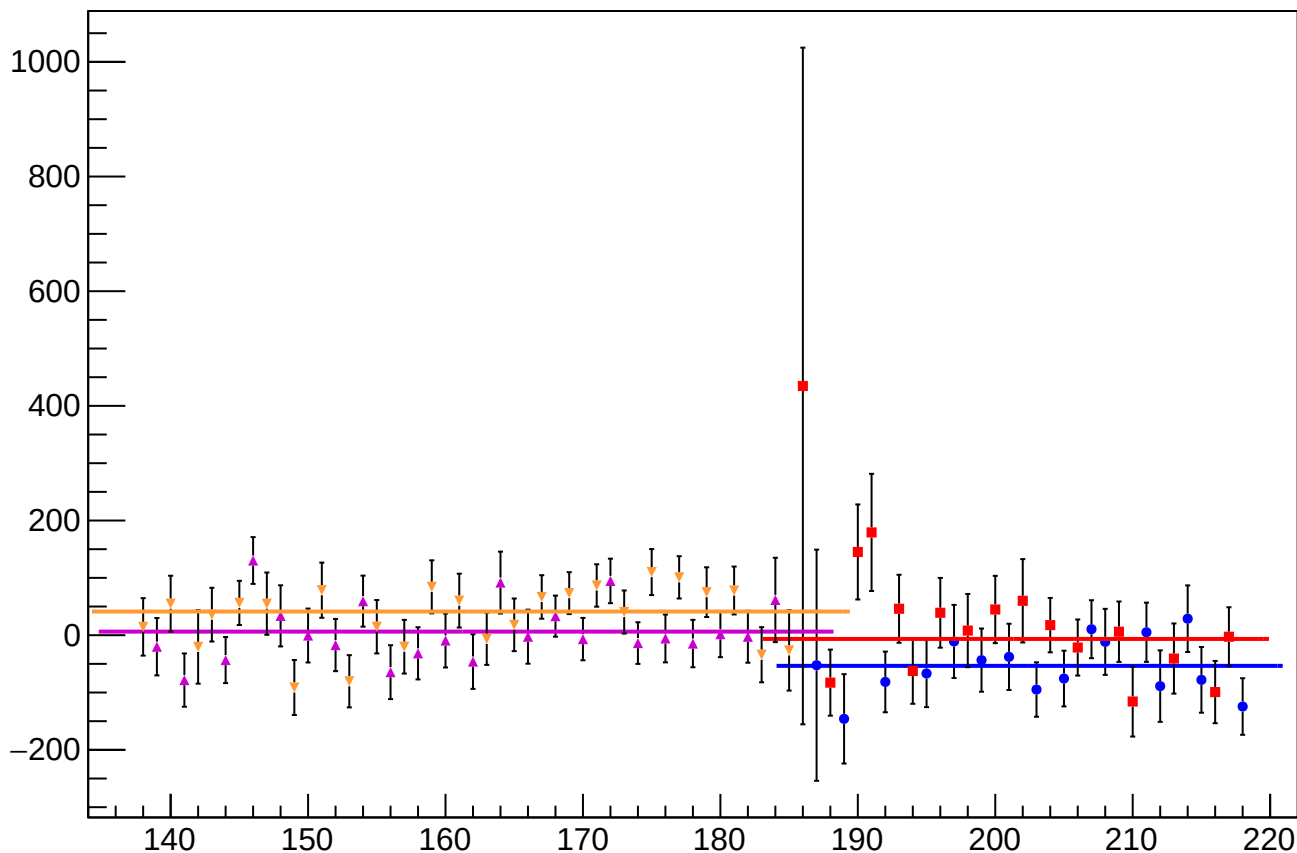
Right: 837.140+/-0.126 χ^2/NDF : 1932303.9/32

In: 384.931+/-0.055 χ^2/NDF :8882570.1/38

Out: 382.358+/-0.054 χ^2/NDF :10240872.6/41

All: 383.623+/-0.039 χ^2/NDF : 19124546.5/80

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -53.491 ± 14.264 $\chi^2/\text{NDF}: 11.2/15$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: -6.520 ± 14.735 $\chi^2/\text{NDF}: 19.8/16$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

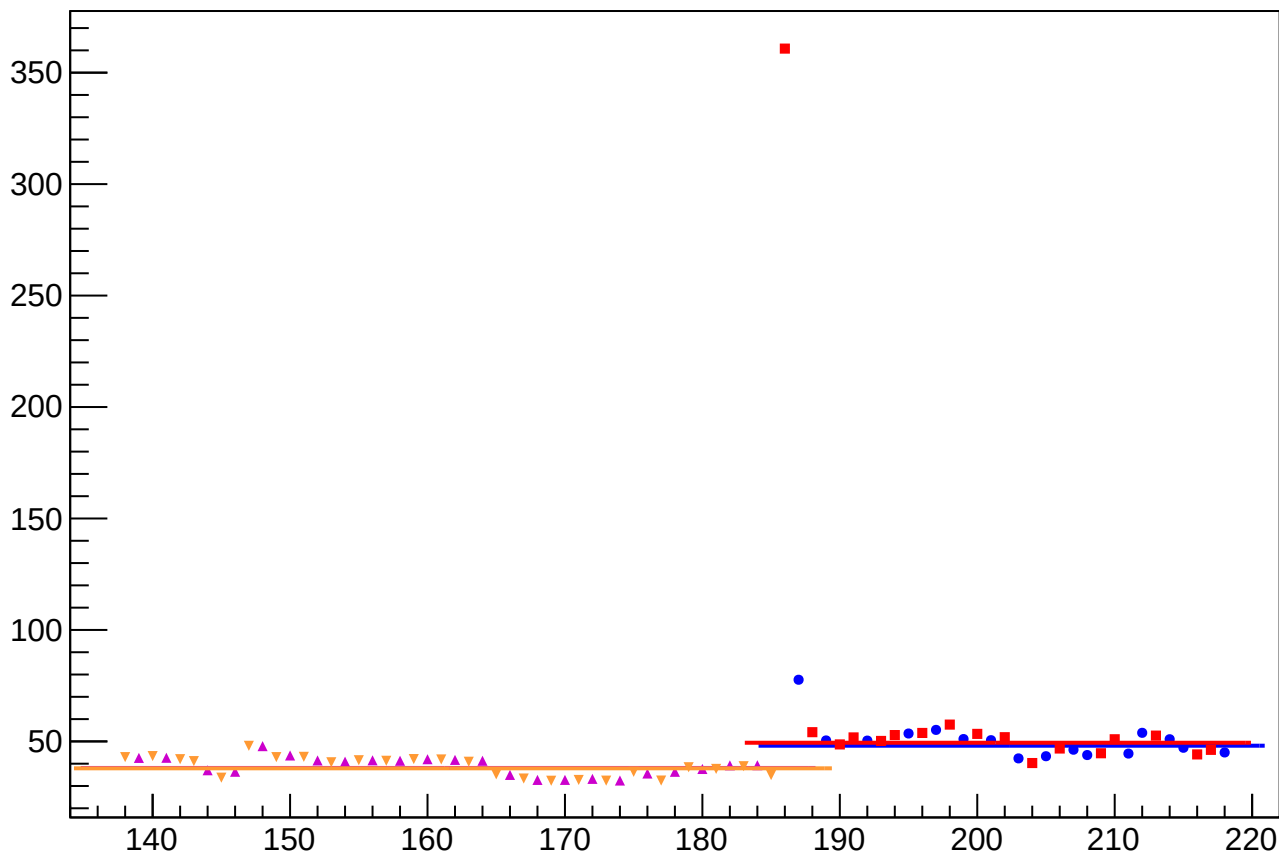
Right: -30.769 ± 10.249 $\chi^2/\text{NDF}: 36.2/32$

In: -11.230 ± 7.716 $\chi^2/\text{NDF}: 53.9/38$

Out: 28.528 ± 7.612 $\chi^2/\text{NDF}: 61.8/41$

All: 8.921 ± 5.419 $\chi^2/\text{NDF}: 129.2/80$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 48.071 $\pm$ 0.010 χ^2 /NDF: 200649.6/15

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 49.399 $\pm$ 0.010 χ^2 /NDF: 762104.6/16

Left In: 38.087 $\pm$ 0.006 χ^2 /NDF: 396334.5/22

Left: 38.004 $\pm$ 0.005 χ^2 /NDF: 883742.3/47

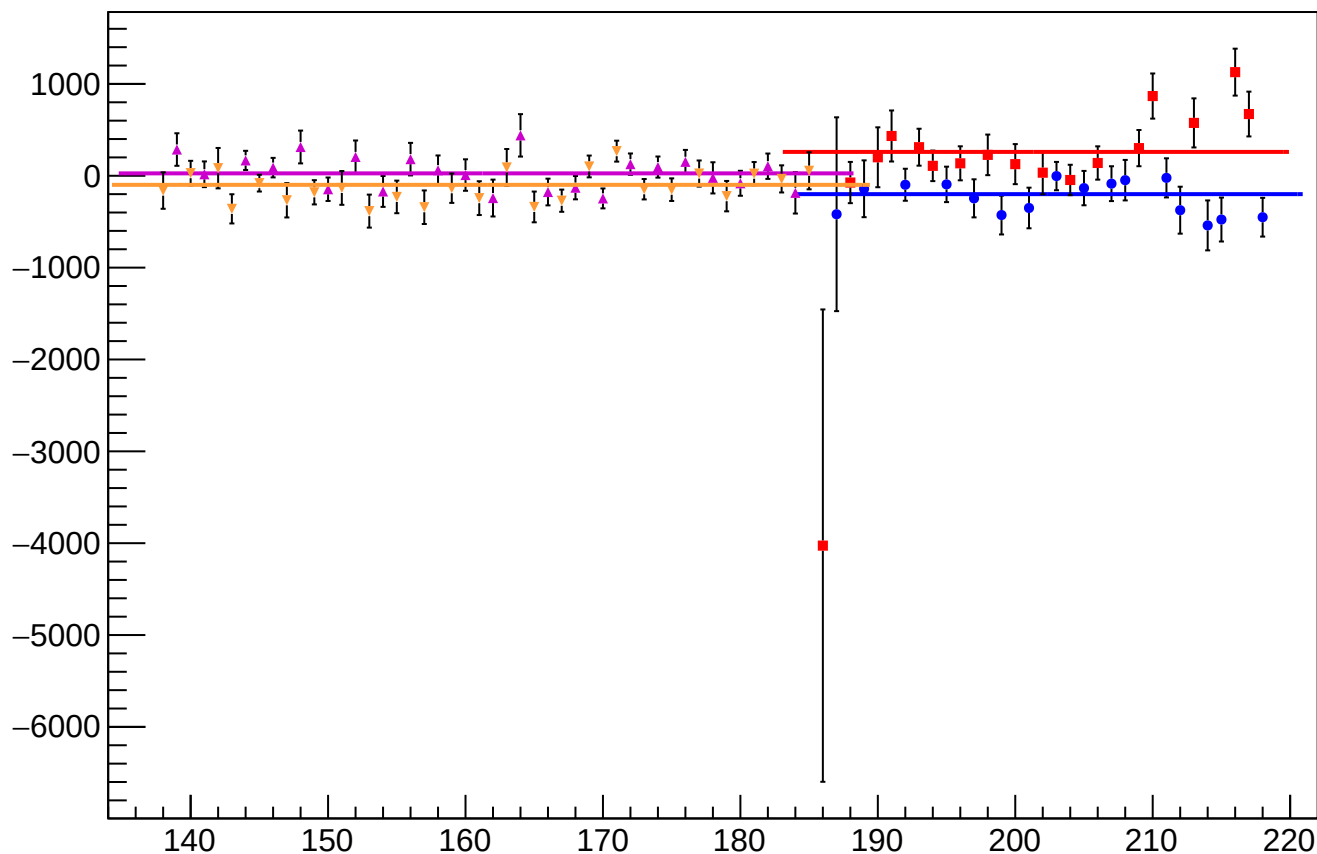
Right: 48.713 $\pm$ 0.007 χ^2 /NDF: 971139.6/32

In: 41.009 $\pm$ 0.005 χ^2 /NDF: 1290006.3/38

Out: 40.986 $\pm$ 0.005 χ^2 /NDF: 2138226.5/41

All: 40.998 $\pm$ 0.004 χ^2 /NDF: 3428241.3/80

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -199.990 ± 53.679 χ^2/NDF : 10.5/15

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 259.848 ± 53.650 χ^2/NDF : 33.9/16

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

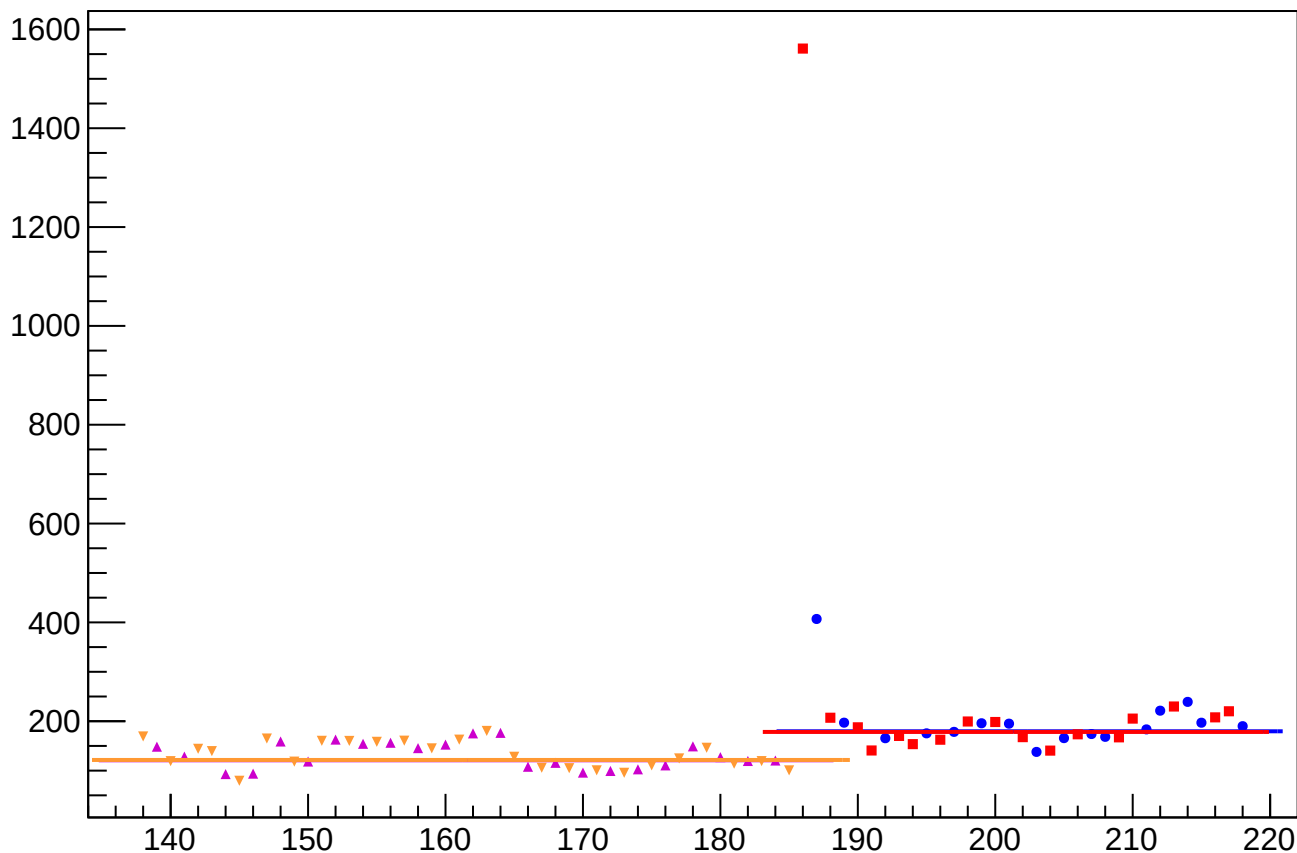
Right: 30.053 ± 37.946 χ^2/NDF : 81.1/32

In: -26.731 ± 25.971 χ^2/NDF : 54.7/38

Out: -17.245 ± 25.576 χ^2/NDF : 101.2/41

All: -21.915 ± 18.223 χ^2/NDF : 156.0/80

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 179.613 $\pm$ 0.038 χ^2 /NDF: 463816.0/15

Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24

Right Out: 178.333 $\pm$ 0.038 χ^2 /NDF: 1046076.6/16

Left In: 120.927 $\pm$ 0.021 χ^2 /NDF:1382861.4/22

Left: 121.266 $\pm$ 0.015 χ^2 /NDF: 3094797.5/47

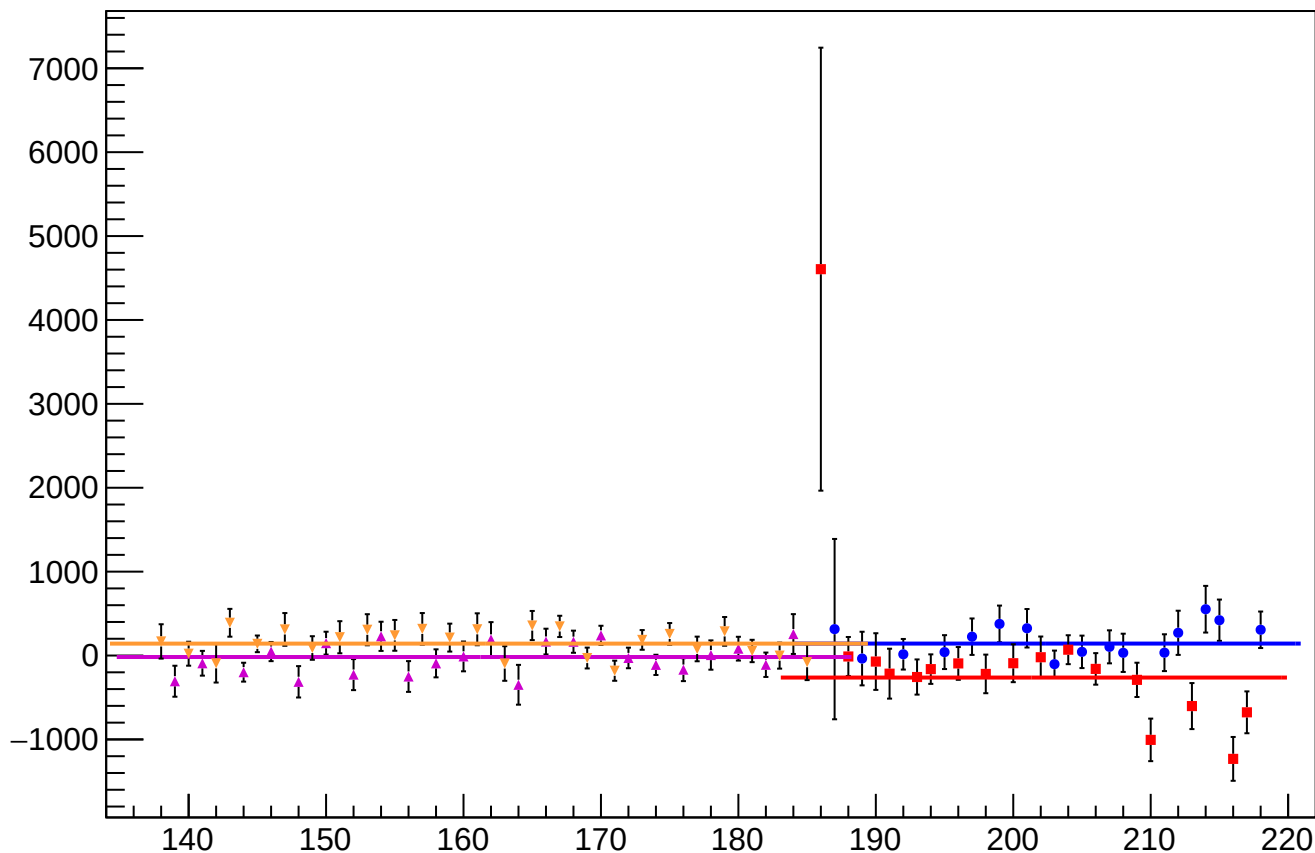
Right: 178.973 $\pm$ 0.027 χ^2 /NDF: 1510461.5/32

In: 134.665 $\pm$ 0.018 χ^2 /NDF:3677661.6/38

Out: 134.487 $\pm$ 0.018 χ^2 /NDF:4486217.3/41

All: 134.575 $\pm$ 0.013 χ^2 /NDF: 8163926.2/80

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 142.530 ± 55.705 $\chi^2/\text{NDF}: 10.3/15$

Left Out: 142.014 ± 30.574 $\chi^2/\text{NDF}: 26.9/24$

Right Out: -262.521 ± 55.873 $\chi^2/\text{NDF}: 38.2/16$

Left In: -17.679 ± 31.209 $\chi^2/\text{NDF}: 30.1/22$

Left: 63.807 ± 21.840 $\chi^2/\text{NDF}: 70.4/47$

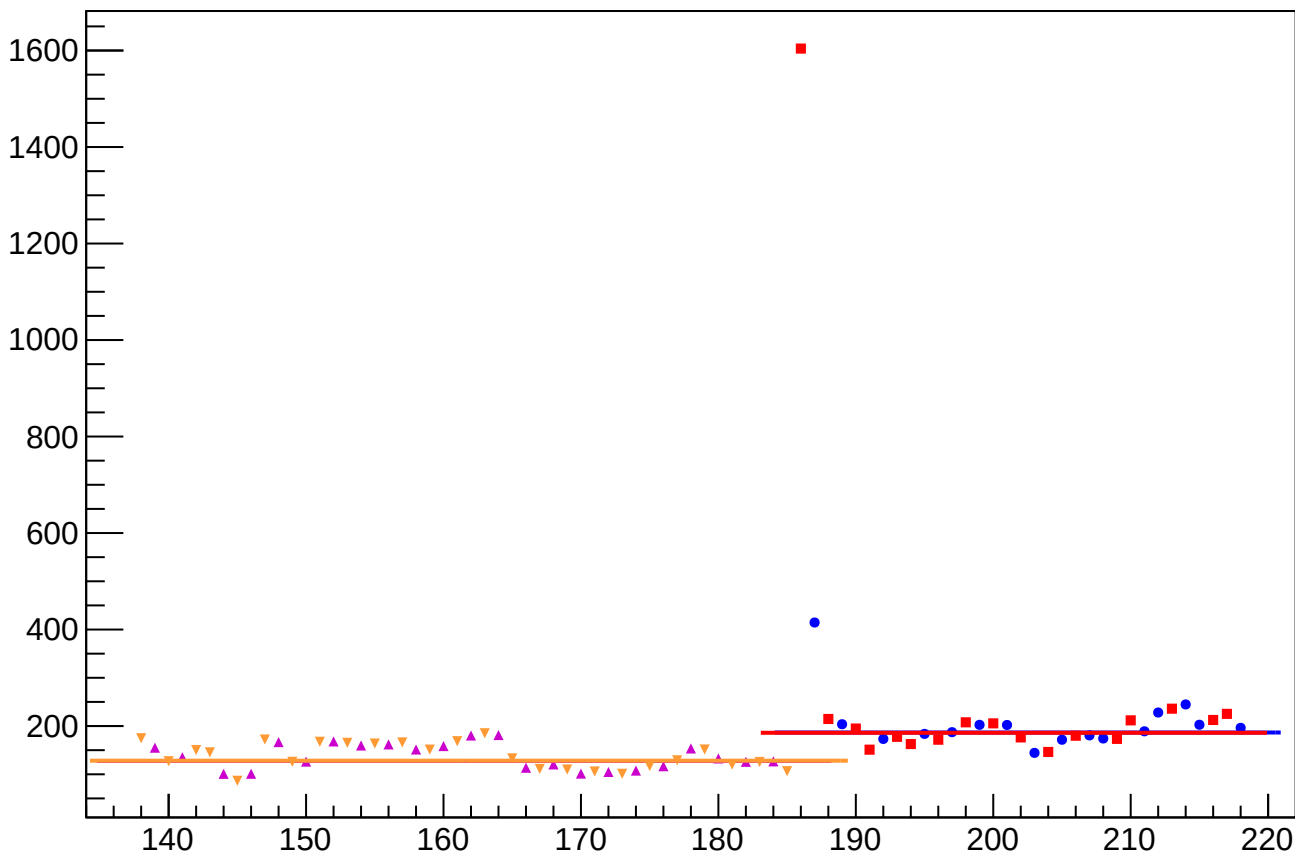
Right: -59.386 ± 39.449 $\chi^2/\text{NDF}: 74.9/32$

In: 20.594 ± 27.227 $\chi^2/\text{NDF}: 46.8/38$

Out: 48.795 ± 26.821 $\chi^2/\text{NDF}: 105.4/41$

All: 34.906 ± 19.107 $\chi^2/\text{NDF}: 152.8/80$

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 186.598 $\pm$ 0.039 χ^2 /NDF: 432541.5/15

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24

Right Out: 186.027 $\pm$ 0.040 χ^2 /NDF: 994046.0/16

Left In: 127.544 $\pm$ 0.022 χ^2 /NDF:1235705.3/22

Left: 127.866 $\pm$ 0.015 χ^2 /NDF: 2769045.1/47

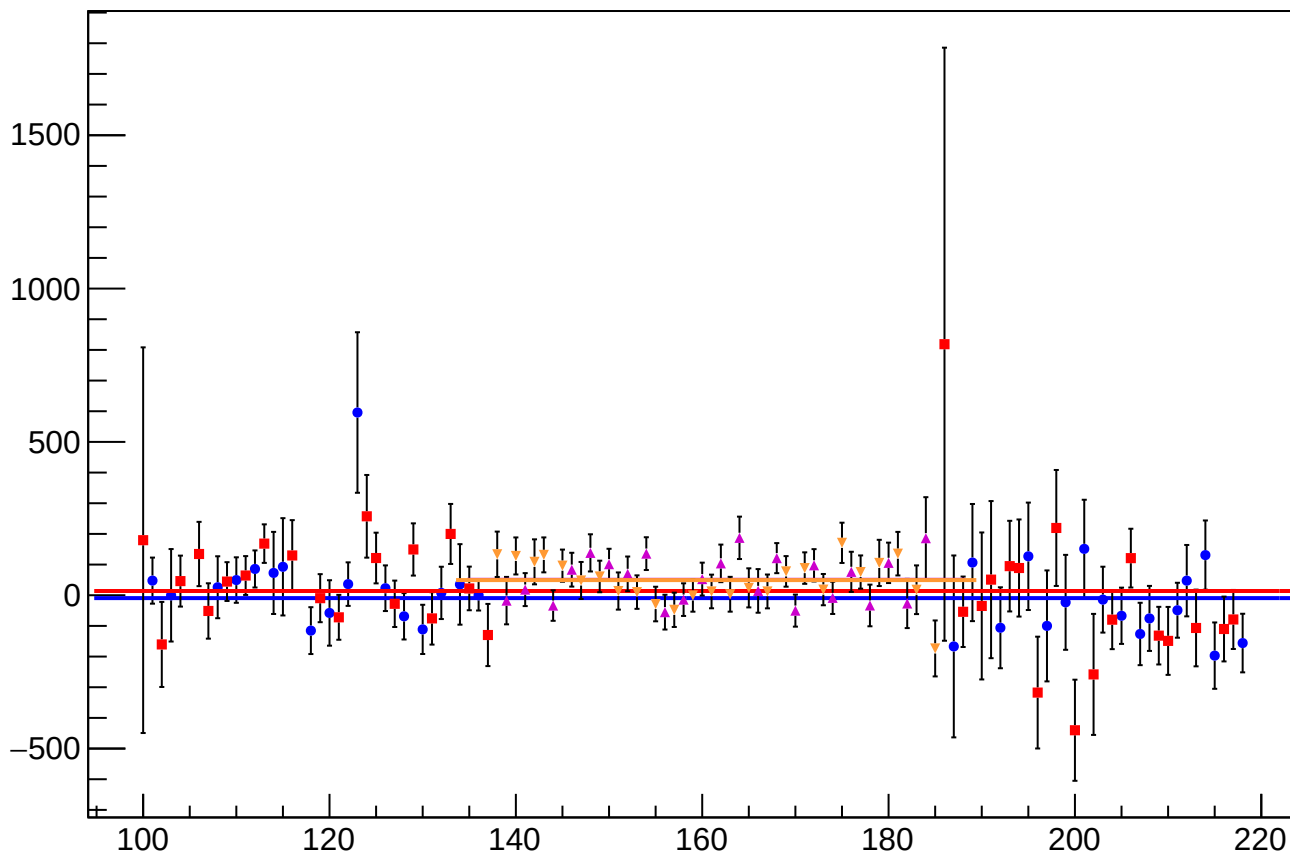
Right: 186.314 $\pm$ 0.028 χ^2 /NDF: 1426692.3/32

In: 141.651 $\pm$ 0.019 χ^2 /NDF:3379019.0/38

Out: 141.506 $\pm$ 0.019 χ^2 /NDF:4177046.0/41

All: 141.578 $\pm$ 0.014 χ^2 /NDF: 7556093.8/80

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -9.377 ± 16.766 $\chi^2/\text{NDF}: 27.6/32$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 13.796 ± 16.597 $\chi^2/\text{NDF}: 53.1/35$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

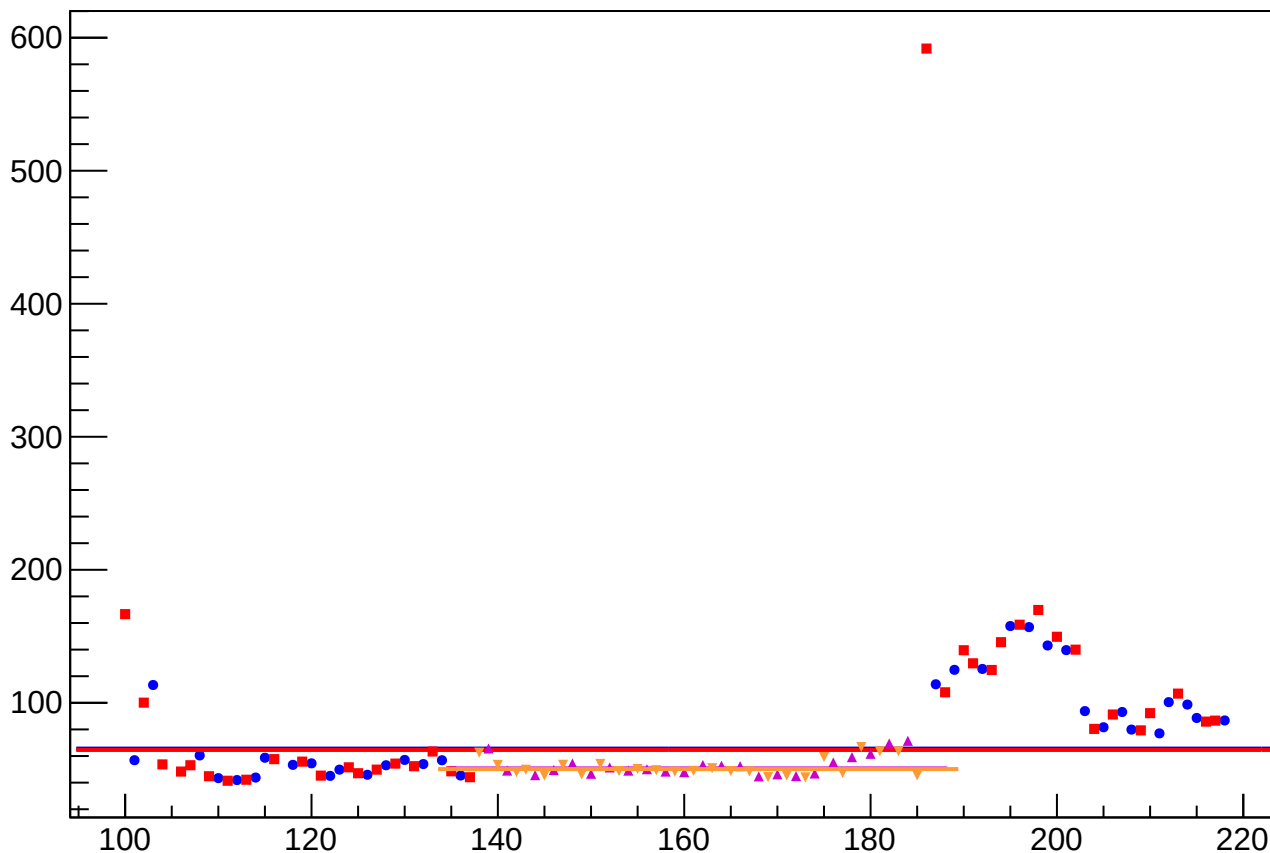
Right: 2.327 ± 11.795 $\chi^2/\text{NDF}: 81.7/68$

In: 29.543 ± 9.893 $\chi^2/\text{NDF}: 68.1/55$

Out: 37.440 ± 9.620 $\chi^2/\text{NDF}: 84.3/60$

All: 33.602 ± 6.897 $\chi^2/\text{NDF}: 152.7/116$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 65.586+/-0.012 χ^2/NDF : 5220597.6/32

Left Out: 50.189+/-0.008 χ^2/NDF : 467679.2/24

Right Out: 64.560+/-0.012 χ^2/NDF : 6460048.8/35

Left In: 50.683+/-0.009 χ^2/NDF : 469292.3/22

Left: 50.427+/-0.006 χ^2/NDF : 938655.0/47

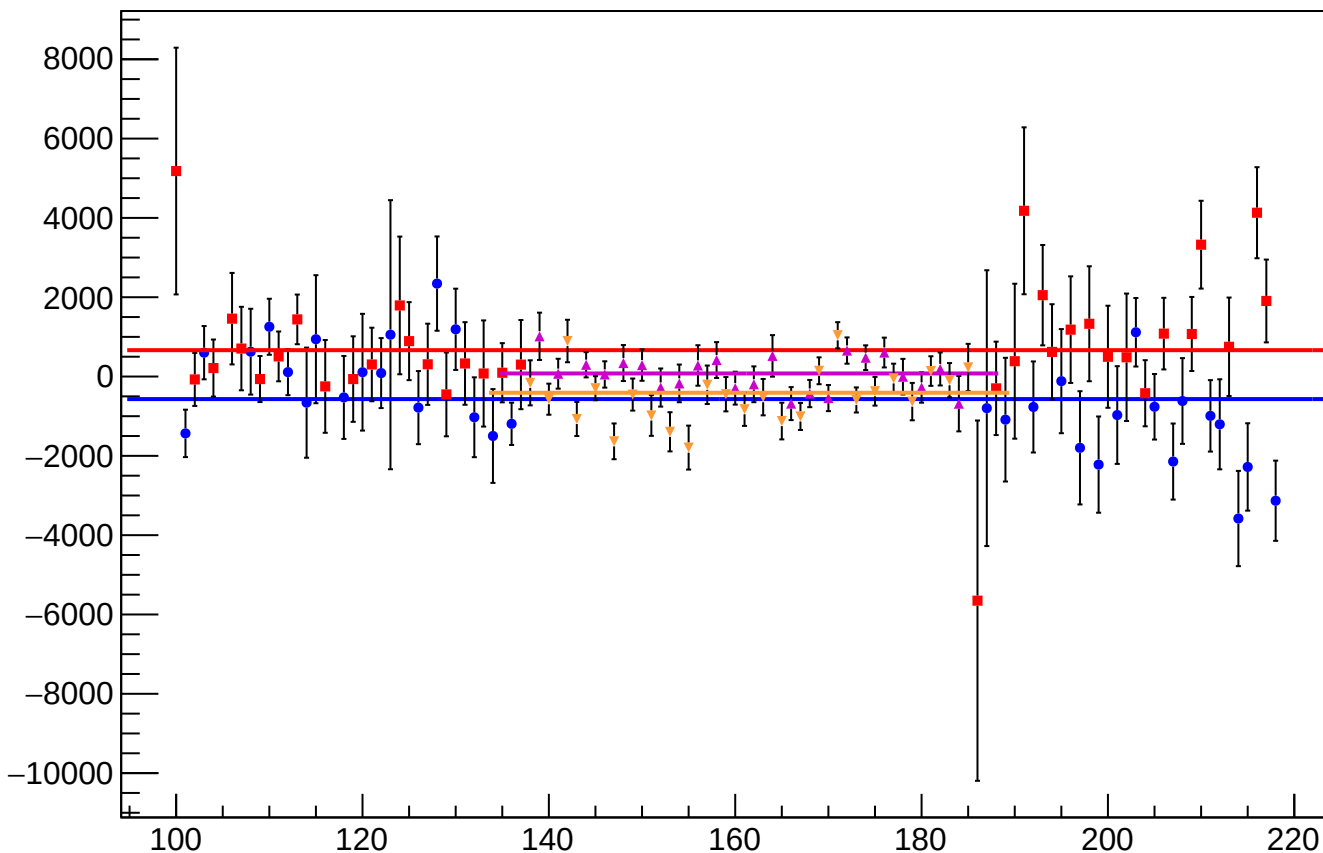
Right: 65.068+/-0.008 χ^2/NDF : 11684424.9/68

In: 55.872+/-0.007 χ^2/NDF : 6719839.1/55

Out: 55.017+/-0.007 χ^2/NDF : 7923370.8/60

All: 55.433+/-0.005 χ^2/NDF : 14650872.9/116

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -568.777 ± 167.971 $\chi^2/\text{NDF}: 52.6/32$

Left Out: -409.164 ± 82.348 $\chi^2/\text{NDF}: 61.7/24$

Right Out: 664.974 ± 167.680 $\chi^2/\text{NDF}: 36.7/35$

Left In: 77.872 ± 84.072 $\chi^2/\text{NDF}: 24.8/22$

Left: -170.691 ± 58.829 $\chi^2/\text{NDF}: 103.6/47$

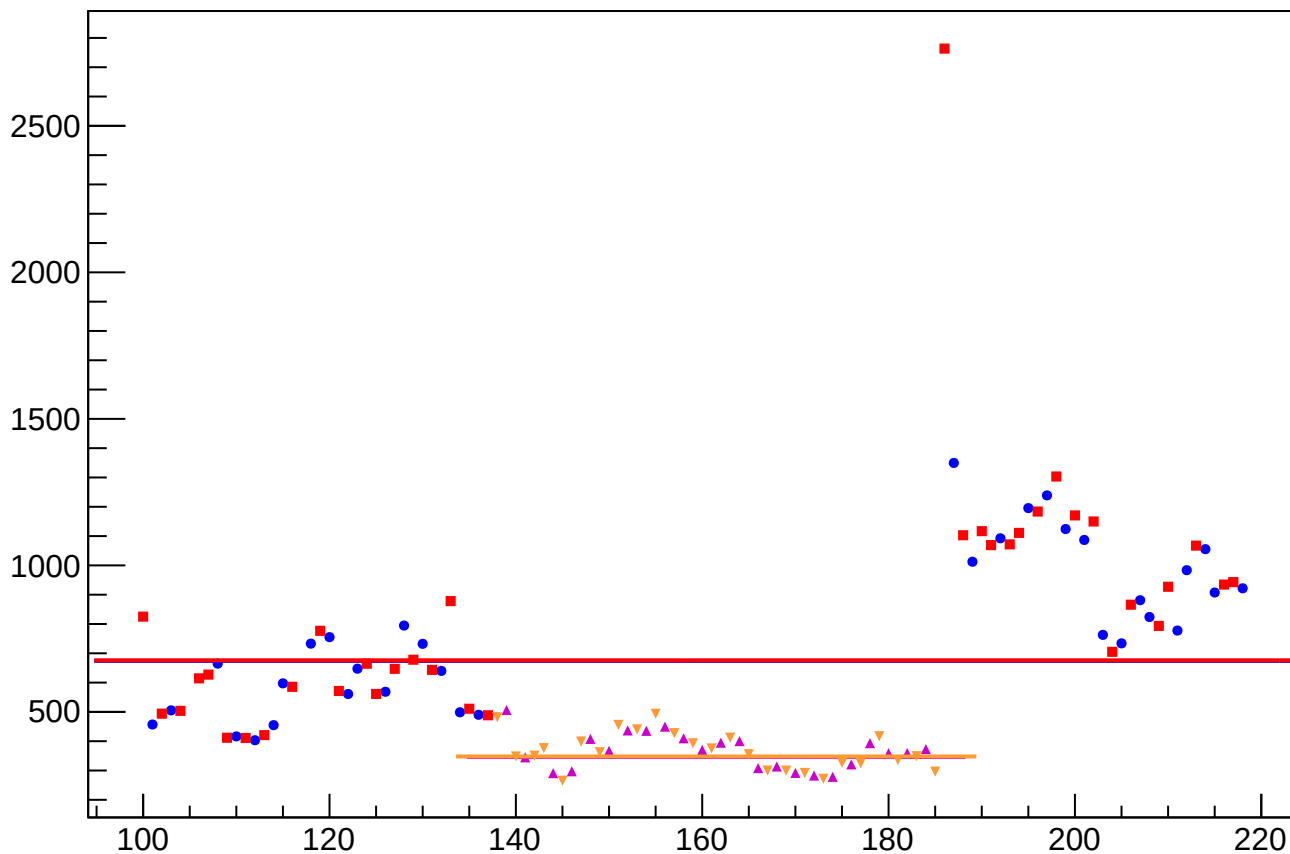
Right: 49.169 ± 118.671 $\chi^2/\text{NDF}: 116.3/68$

In: -51.671 ± 75.181 $\chi^2/\text{NDF}: 89.3/55$

Out: -200.441 ± 73.916 $\chi^2/\text{NDF}: 131.4/60$

All: -127.319 ± 52.708 $\chi^2/\text{NDF}: 222.7/116$

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 674.127+/-0.119 χ^2/NDF : 3839488.9/32

Left Out: 347.875+/-0.058 χ^2/NDF : 1044096.7/24

Right Out: 675.957+/-0.119 χ^2/NDF : 4764922.9/35

Left In: 345.954+/-0.059 χ^2/NDF : 900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

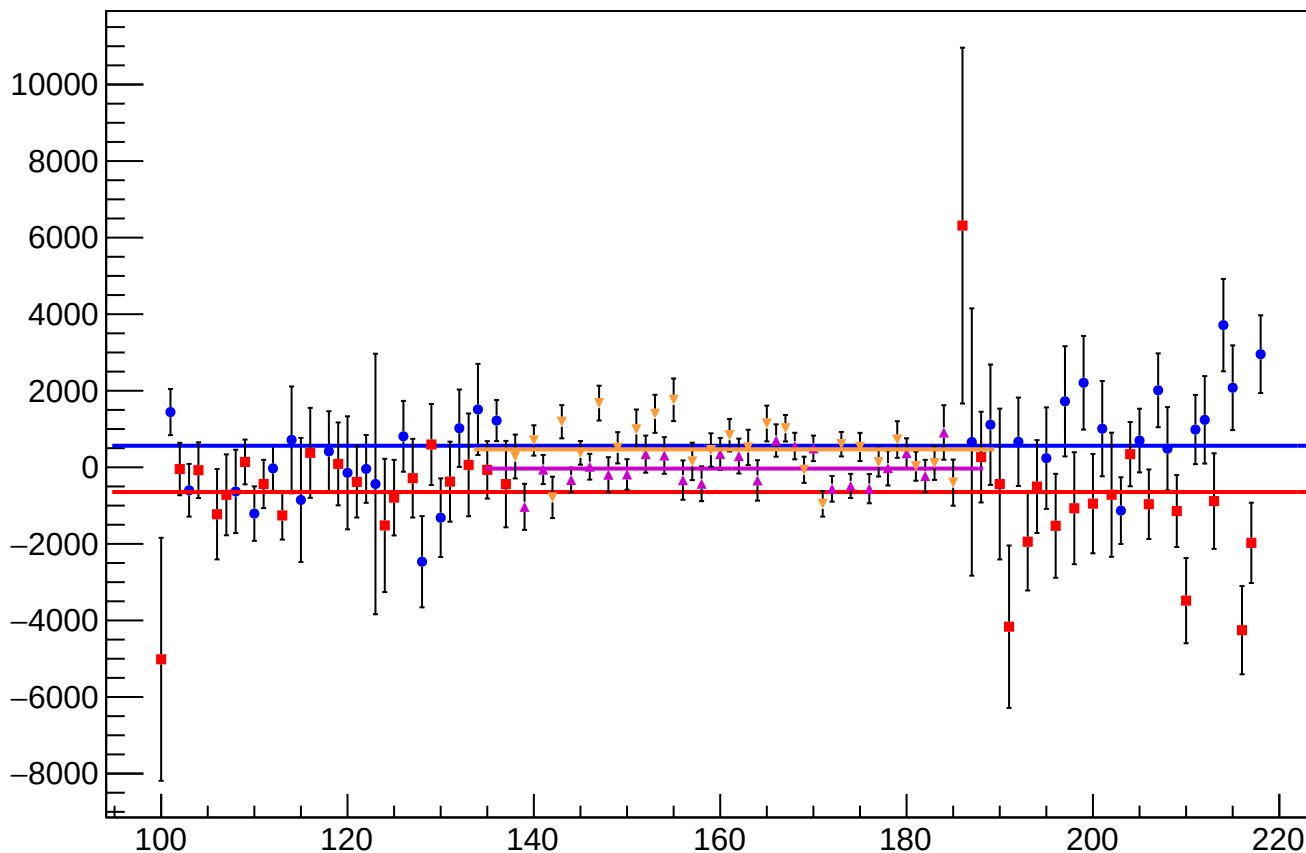
Right: 675.044+/-0.084 χ^2/NDF : 8604530.6/68

In: 411.697+/-0.053 χ^2/NDF : 10845211.3/55

Out: 411.627+/-0.052 χ^2/NDF : 11977729.4/60

All: 411.661+/-0.037 χ^2/NDF : 22822941.5/117

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 563.562 $\pm$ 169.120 χ^2 /NDF: 50.9/32

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF: 57.5/24

Right Out: -645.551 $\pm$ 168.914 χ^2 /NDF: 37.4/35

Left In: -32.801 $\pm$ 85.064 χ^2 /NDF: 25.7/22

Left: 223.299 $\pm$ 59.514 χ^2 /NDF: 100.9/47

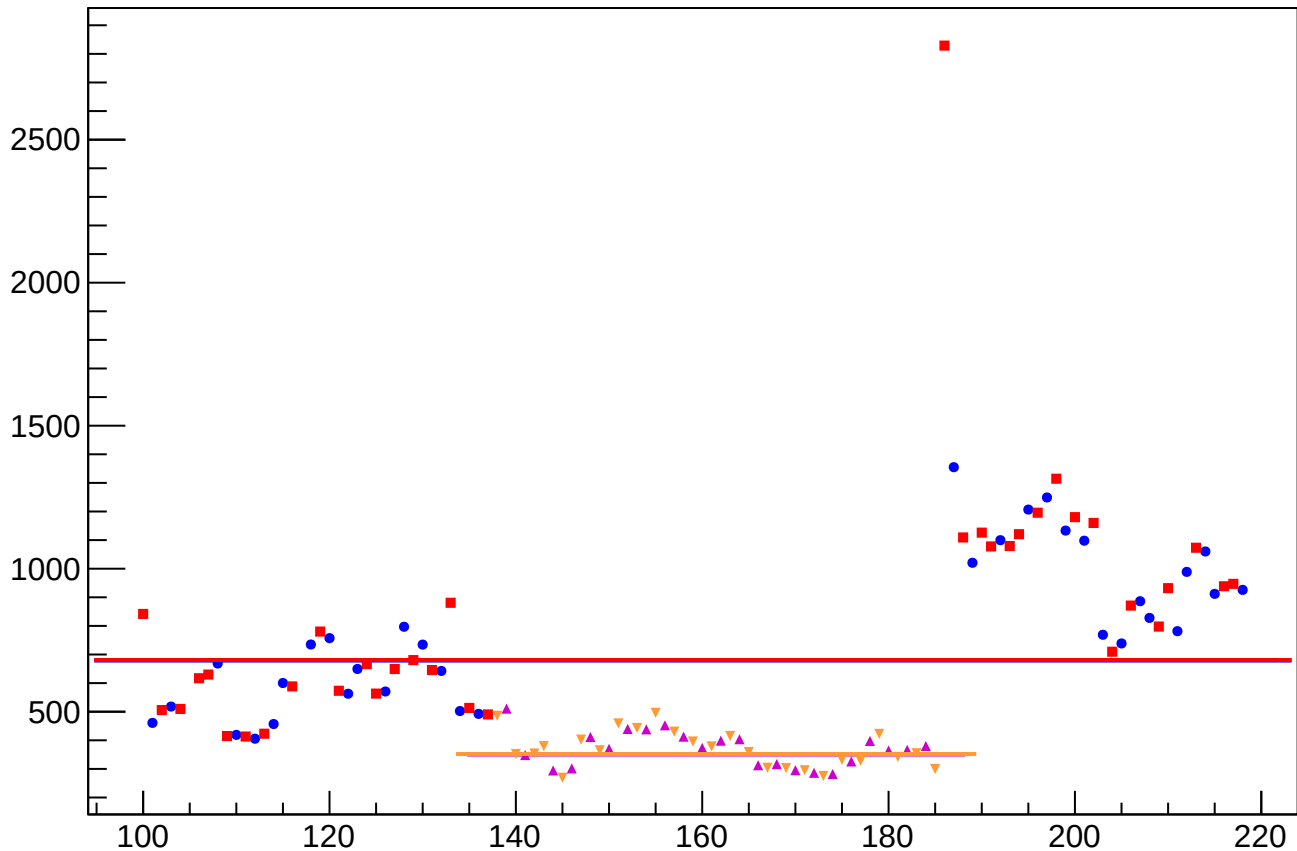
Right: -41.730 $\pm$ 119.513 χ^2 /NDF: 113.9/68

In: 87.609 $\pm$ 75.992 χ^2 /NDF: 86.5/55

Out: 250.878 $\pm$ 74.706 χ^2 /NDF: 129.9/60

All: 170.637 $\pm$ 53.274 χ^2 /NDF: 218.7/116

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 678.864 $\pm$ 0.120 χ^2 /NDF: 3828015.2/32

Left Out: 352.015 $\pm$ 0.059 χ^2 /NDF: 1017195.6/24

Right Out: 680.785 $\pm$ 0.119 χ^2 /NDF: 4759520.5/35

Left In: 350.160 $\pm$ 0.060 χ^2 /NDF: 878380.0/22

Left: 351.107 $\pm$ 0.042 χ^2 /NDF: 1896060.8/47

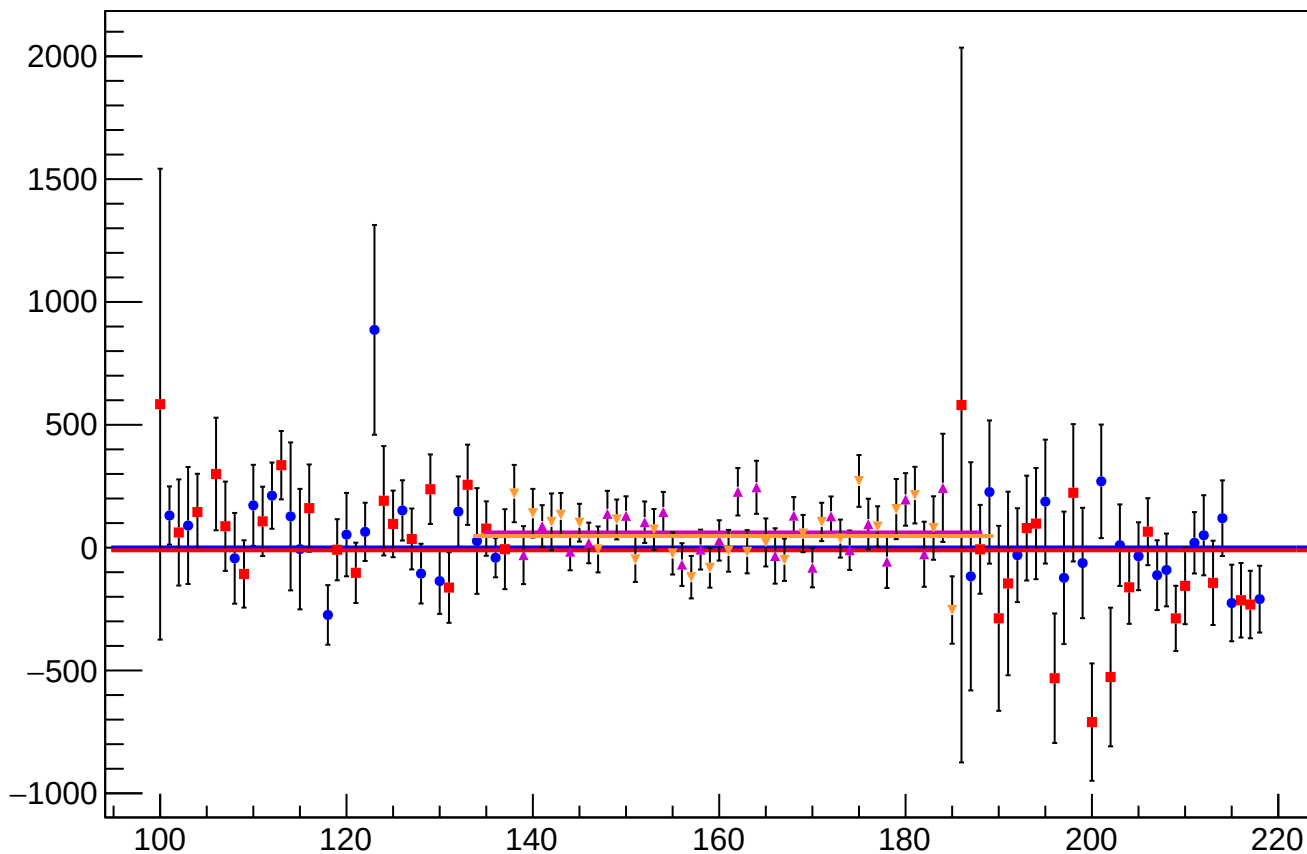
Right: 679.826 $\pm$ 0.085 χ^2 /NDF: 8587664.9/68

In: 416.528 $\pm$ 0.054 χ^2 /NDF: 10736191.2/55

Out: 416.324 $\pm$ 0.053 χ^2 /NDF: 11871423.8/60

All: 416.424 $\pm$ 0.038 χ^2 /NDF: 22607622.3/117

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 0.725 ± 27.034 χ^2/NDF : 28.7/32

Left Out: 47.426 ± 18.253 χ^2/NDF : 29.4/24

Right Out: -10.836 ± 27.767 χ^2/NDF : 50.9/35

Left In: 61.830 ± 18.958 χ^2/NDF : 24.0/22

Left: 54.355 ± 13.149 χ^2/NDF : 53.7/47

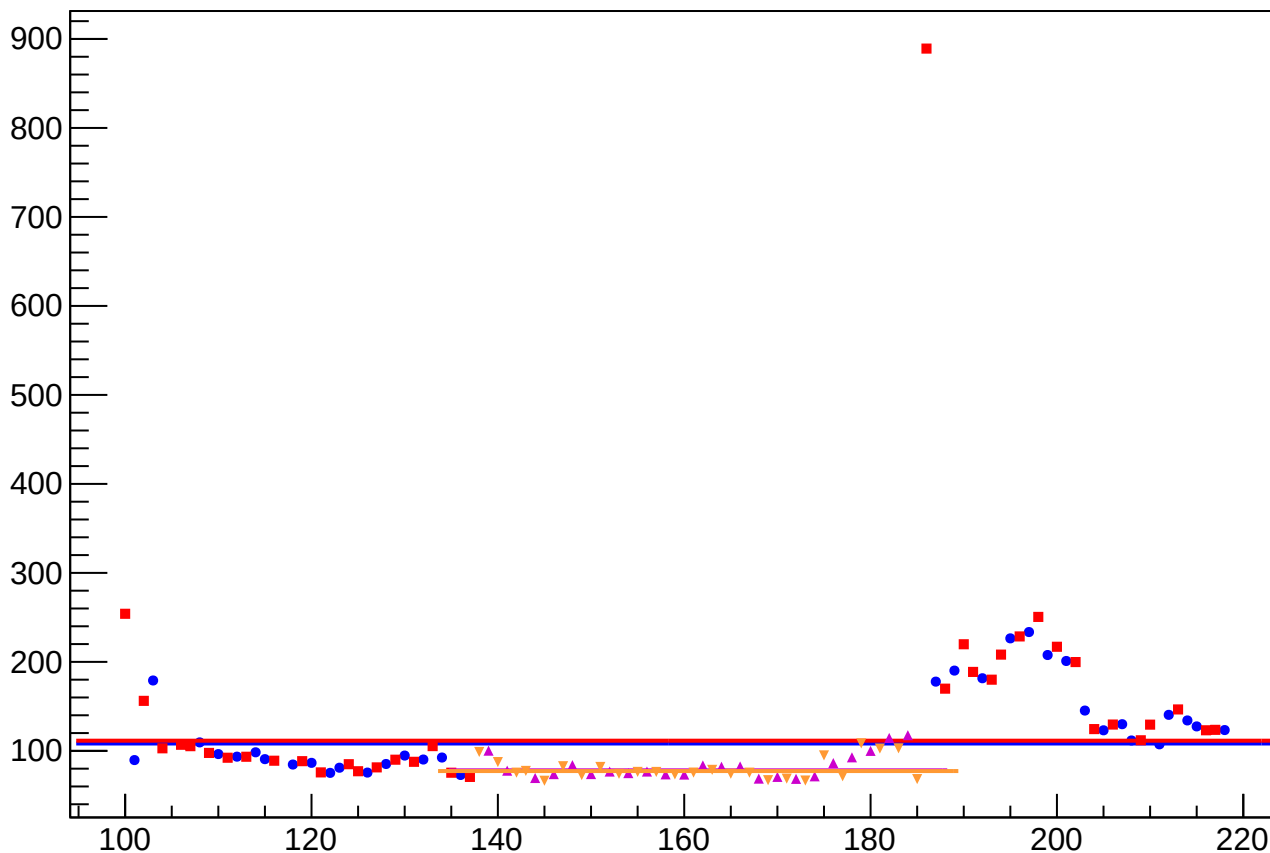
Right: -4.901 ± 19.370 χ^2/NDF : 79.7/68

In: 41.686 ± 15.521 χ^2/NDF : 56.1/55

Out: 29.846 ± 15.252 χ^2/NDF : 83.3/60

All: 35.663 ± 10.879 χ^2/NDF : 139.8/116

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 108.290 $\pm$ 0.019 χ^2 /NDF: 3654941.6/32

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF:635622.3/24

Right Out: 111.441 $\pm$ 0.020 χ^2 /NDF: 4481142.1/35

Left In: 78.139 $\pm$ 0.013 χ^2 /NDF:582108.1/22

Left: 77.712 $\pm$ 0.009 χ^2 /NDF: 1219684.1/47

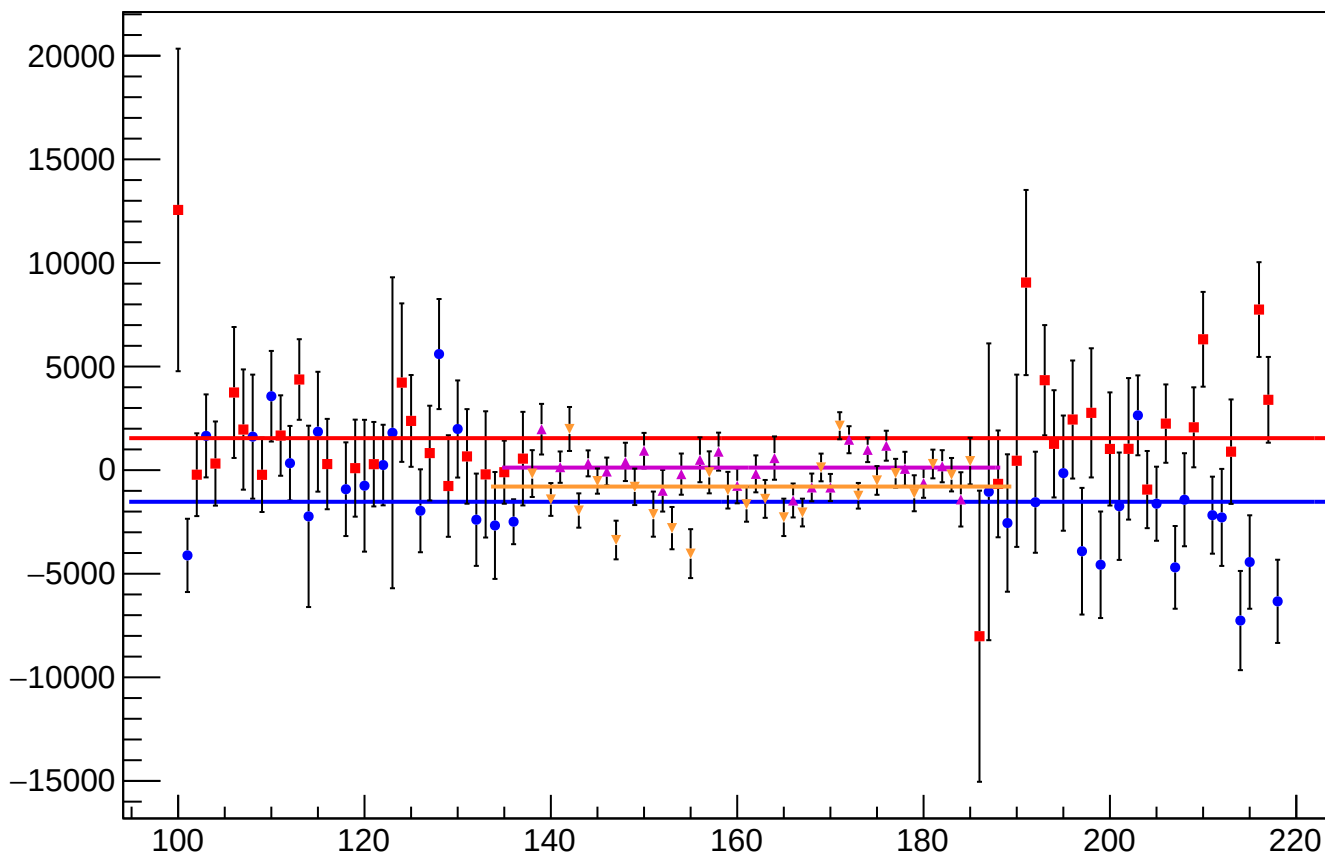
Right: 109.823 $\pm$ 0.014 χ^2 /NDF: 8149308.8/68

In: 88.078 $\pm$ 0.011 χ^2 /NDF:5904812.6/55

Out: 87.613 $\pm$ 0.011 χ^2 /NDF:7226104.8/60

All: 87.842 $\pm$ 0.008 χ^2 /NDF: 13131832.1/116

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -1527.508 $\pm$ 387.475 χ^2/NDF : 48.4/32

Left Out: -792.776 $\pm$ 162.659 χ^2/NDF : 66.6/24

Right Out: 1543.453 $\pm$ 395.783 χ^2/NDF : 32.8/35

Left In: 122.198 $\pm$ 166.193 χ^2/NDF : 25.9/22

Left: -345.122 $\pm$ 116.247 χ^2/NDF : 108.0/47

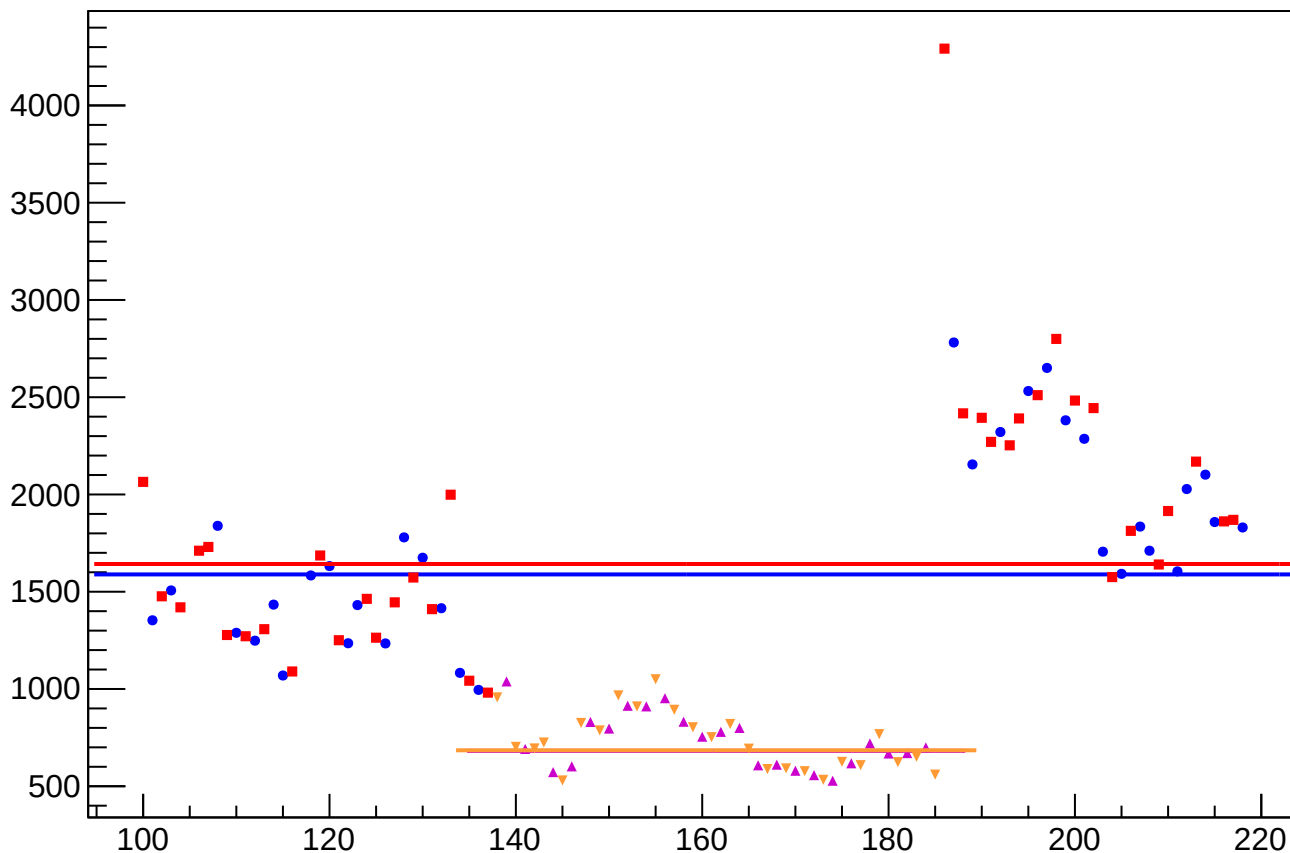
Right: -24.600 $\pm$ 276.877 χ^2/NDF : 111.9/68

In: -134.137 $\pm$ 152.737 χ^2/NDF : 89.6/55

Out: -455.196 $\pm$ 150.449 χ^2/NDF : 129.2/60

All: -297.089 $\pm$ 107.183 χ^2/NDF : 221.0/116

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1589.005 $\pm$ 0.274 χ^2/NDF : 2424632.4/32

Left Out: 684.785 $\pm$ 0.115 χ^2/NDF : 1280146.2/24

Right Out: 1642.575 $\pm$ 0.280 χ^2/NDF : 2854628.7/35

Left In: 681.712 $\pm$ 0.118 χ^2/NDF : 1119637.0/22

Left: 683.282 $\pm$ 0.082 χ^2/NDF : 2400132.5/47

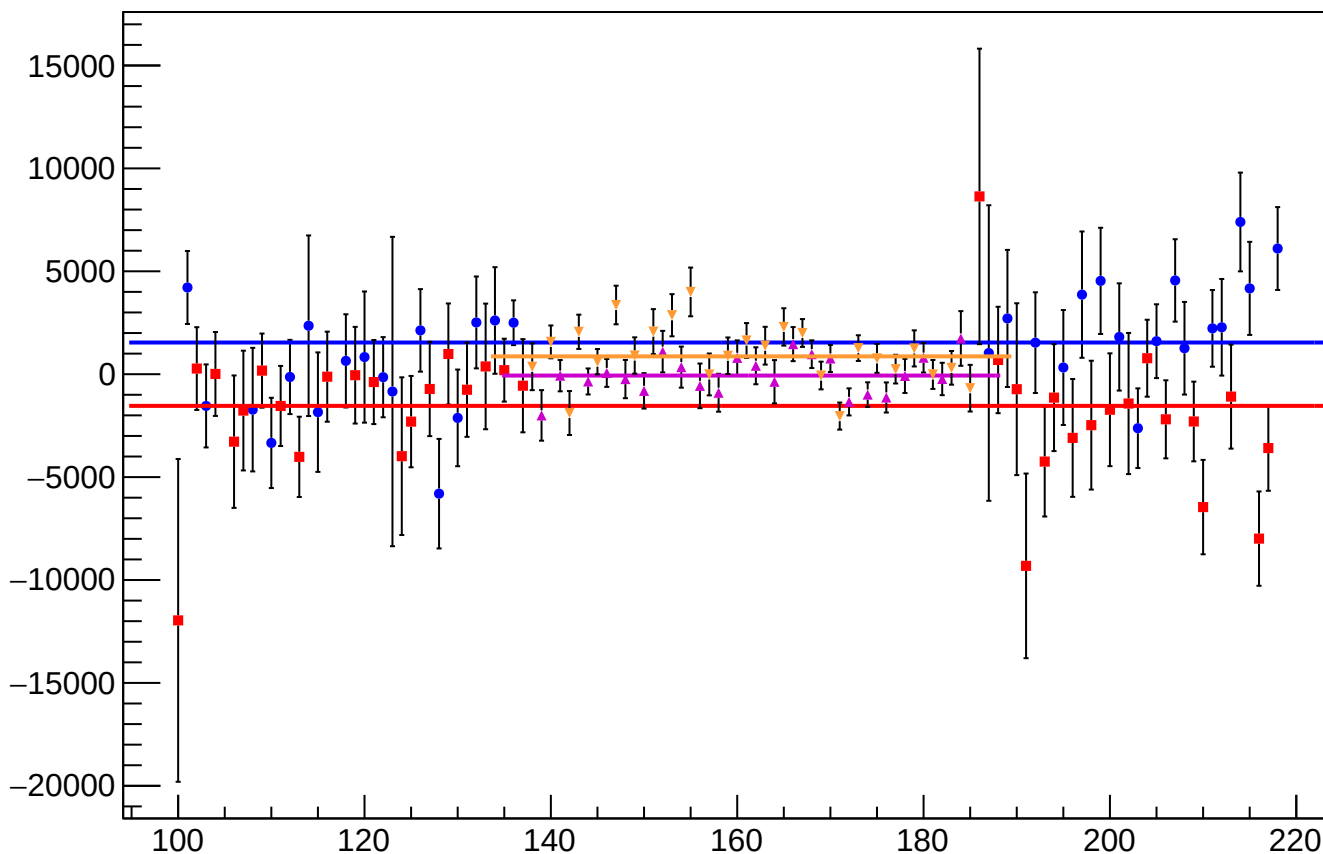
Right: 1615.222 $\pm$ 0.196 χ^2/NDF : 5297970.2/68

In: 822.689 $\pm$ 0.108 χ^2/NDF : 12806132.8/55

Out: 823.183 $\pm$ 0.106 χ^2/NDF : 14154985.8/60

All: 822.940 $\pm$ 0.076 χ^2/NDF : 26961129.3/11

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 1539.808 $\pm$ 388.619 χ^2 /NDF: 47.2/32

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF: 62.8/24

Right Out: -1538.812 $\pm$ 397.087 χ^2 /NDF: 33.4/35

Left In: -65.924 $\pm$ 167.485 χ^2 /NDF: 26.4/22

Left: 409.953 $\pm$ 117.136 χ^2 /NDF: 105.1/47

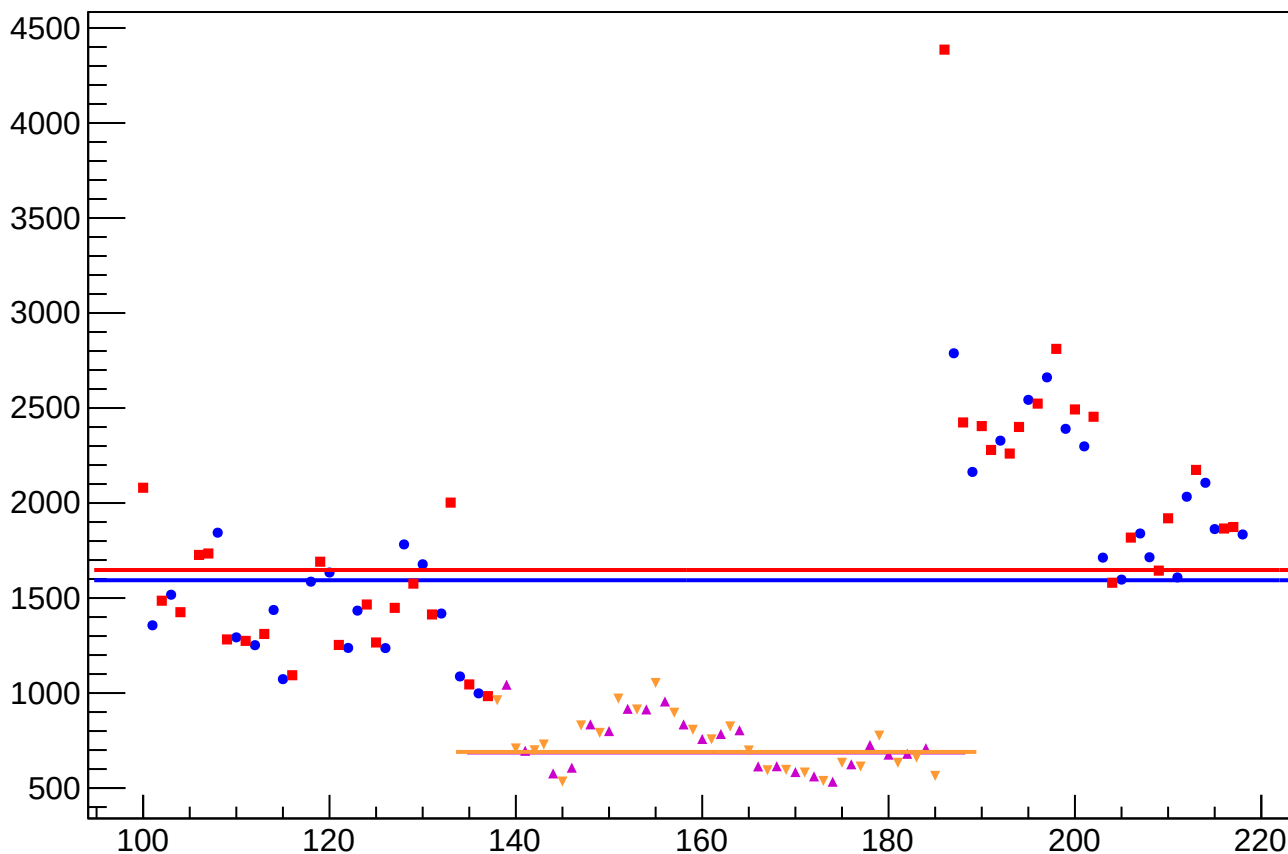
Right: 33.671 $\pm$ 277.741 χ^2 /NDF: 111.3/68

In: 185.603 $\pm$ 153.808 χ^2 /NDF: 88.0/55

Out: 515.646 $\pm$ 151.490 χ^2 /NDF: 127.6/60

All: 353.130 $\pm$ 107.930 χ^2 /NDF: 217.9/116

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1593.634 $\pm$ 0.275 χ^2 /NDF: 2427650.4/32

Left Out: 690.166 $\pm$ 0.116 χ^2 /NDF: 1258158.2/24

Right Out: 1647.478 $\pm$ 0.281 χ^2 /NDF: 2866187.4/35

Left In: 687.216 $\pm$ 0.118 χ^2 /NDF: 1099706.1/22

Left: 688.723 $\pm$ 0.083 χ^2 /NDF: 2358181.3/47

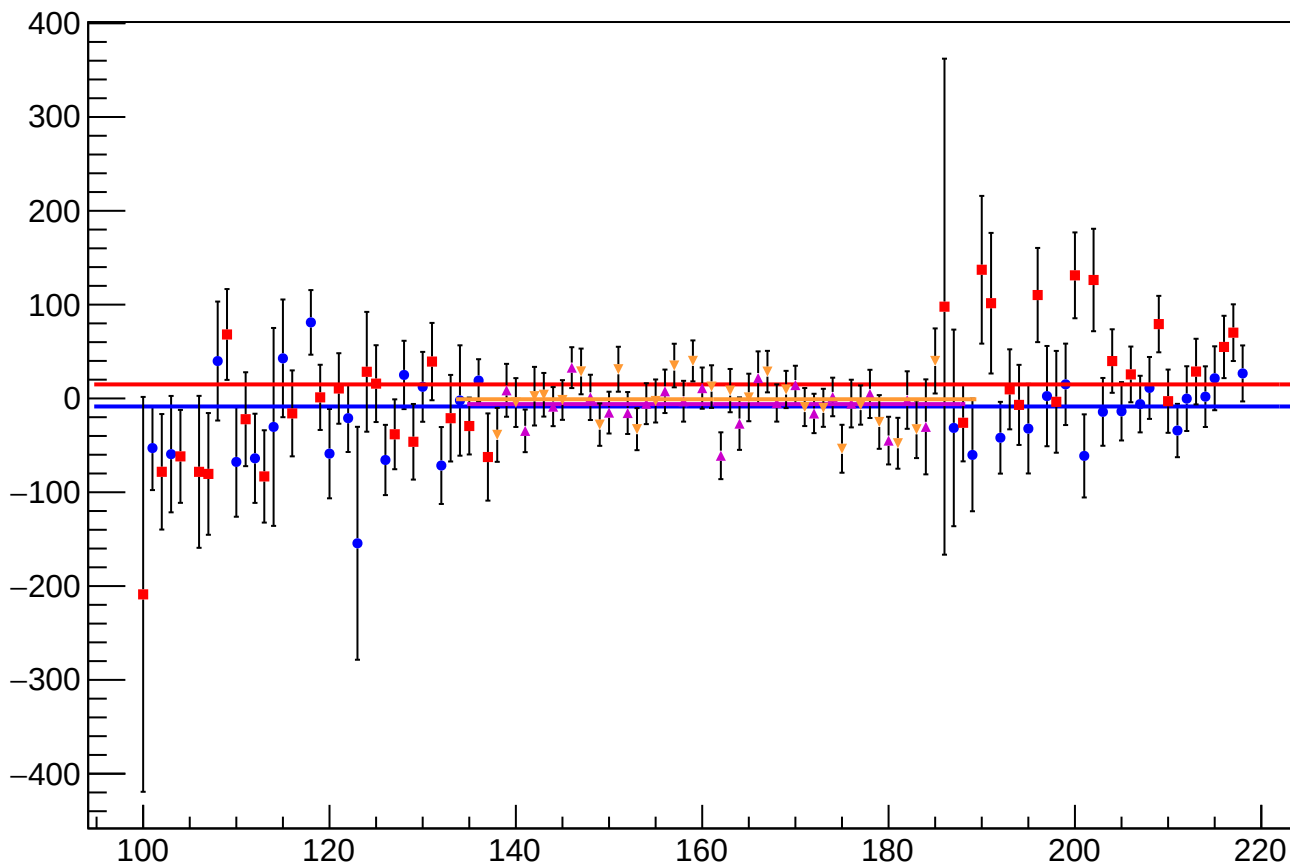
Right: 1619.976 $\pm$ 0.196 χ^2 /NDF: 5312620.1/68

In: 829.201 $\pm$ 0.109 χ^2 /NDF: 12703268.2/55

Out: 829.499 $\pm$ 0.107 χ^2 /NDF: 14056757.7/60

All: 829.352 $\pm$ 0.076 χ^2 /NDF: 26760029.8/115

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -8.568 ± 6.914 $\chi^2/\text{NDF}: 29.1/32$

Left Out: -0.861 ± 4.760 $\chi^2/\text{NDF}: 27.9/24$

Right Out: 14.960 ± 7.156 $\chi^2/\text{NDF}: 55.8/35$

Left In: -6.042 ± 4.925 $\chi^2/\text{NDF}: 16.9/22$

Left: -3.363 ± 3.423 $\chi^2/\text{NDF}: 45.4/47$

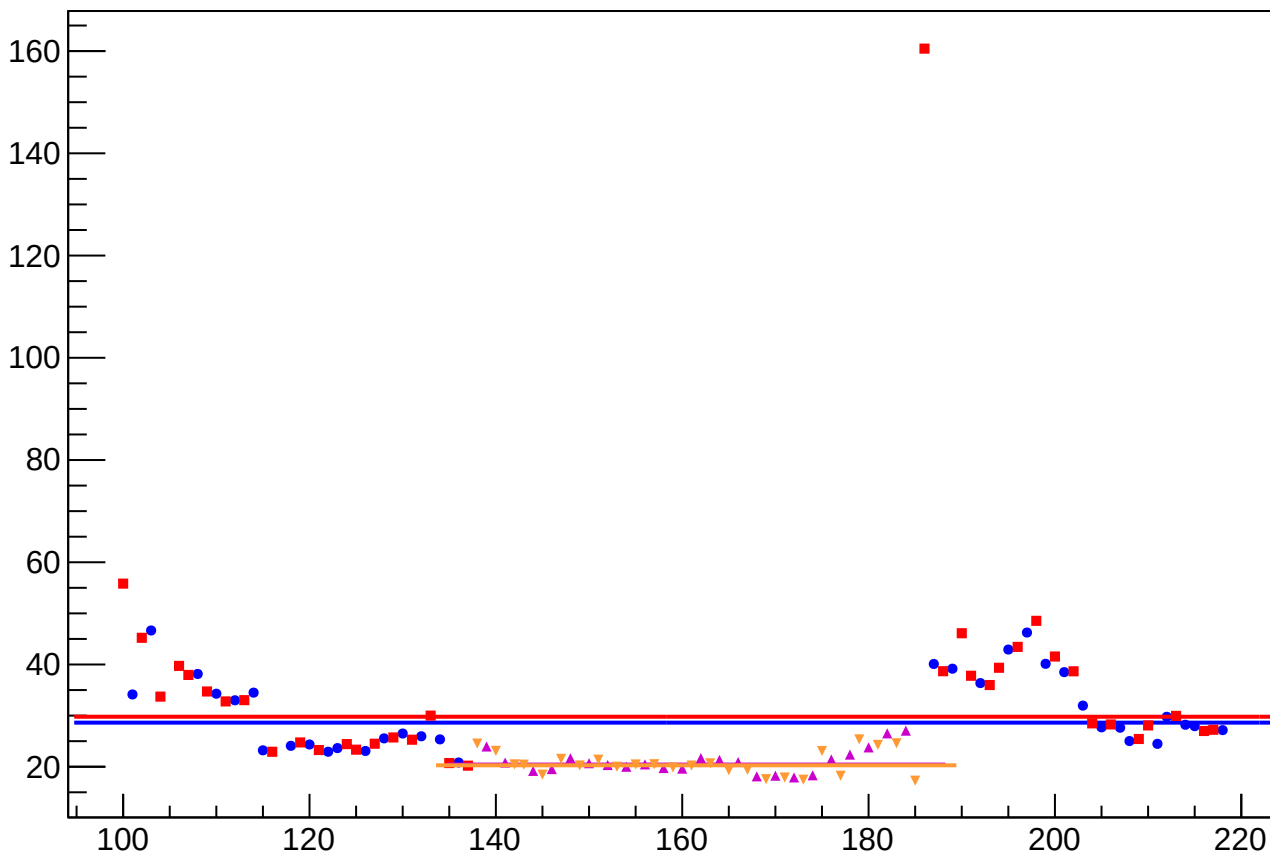
Right: 2.790 ± 4.972 $\chi^2/\text{NDF}: 90.5/68$

In: -6.892 ± 4.011 $\chi^2/\text{NDF}: 46.2/55$

Out: 3.992 ± 3.963 $\chi^2/\text{NDF}: 87.1/60$

All: -1.385 ± 2.819 $\chi^2/\text{NDF}: 137.0/116$

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.625+/-0.005 χ^2/NDF : 1618800.8/32

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 29.779+/-0.005 χ^2/NDF : 2316724.0/35

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

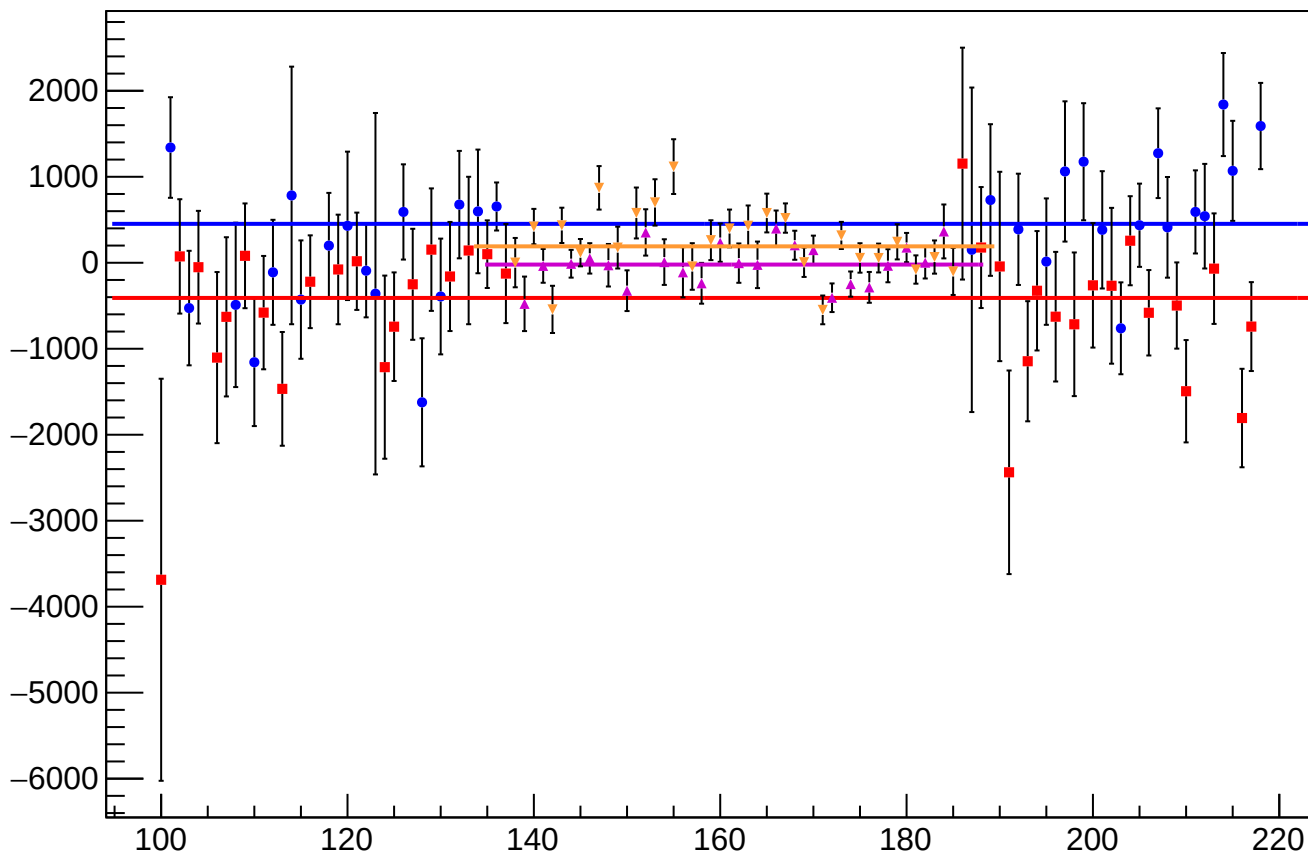
Right: 29.182+/-0.004 χ^2/NDF : 3962427.3/68

In: 23.185+/-0.003 χ^2/NDF : 3809156.1/55

Out: 23.193+/-0.003 χ^2/NDF : 5167128.7/60

All: 23.189+/-0.002 χ^2/NDF : 8976289.3/116

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 452.608 $\pm$ 106.476 χ^2 /NDF: 45.7/32

Left Out: 190.867 $\pm$ 41.314 χ^2 /NDF: 67.9/24

Right Out: -409.044 $\pm$ 109.979 χ^2 /NDF: 29.8/35

Left In: -20.998 $\pm$ 42.291 χ^2 /NDF: 27.7/22

Left: 87.410 $\pm$ 29.553 χ^2 /NDF: 108.4/47

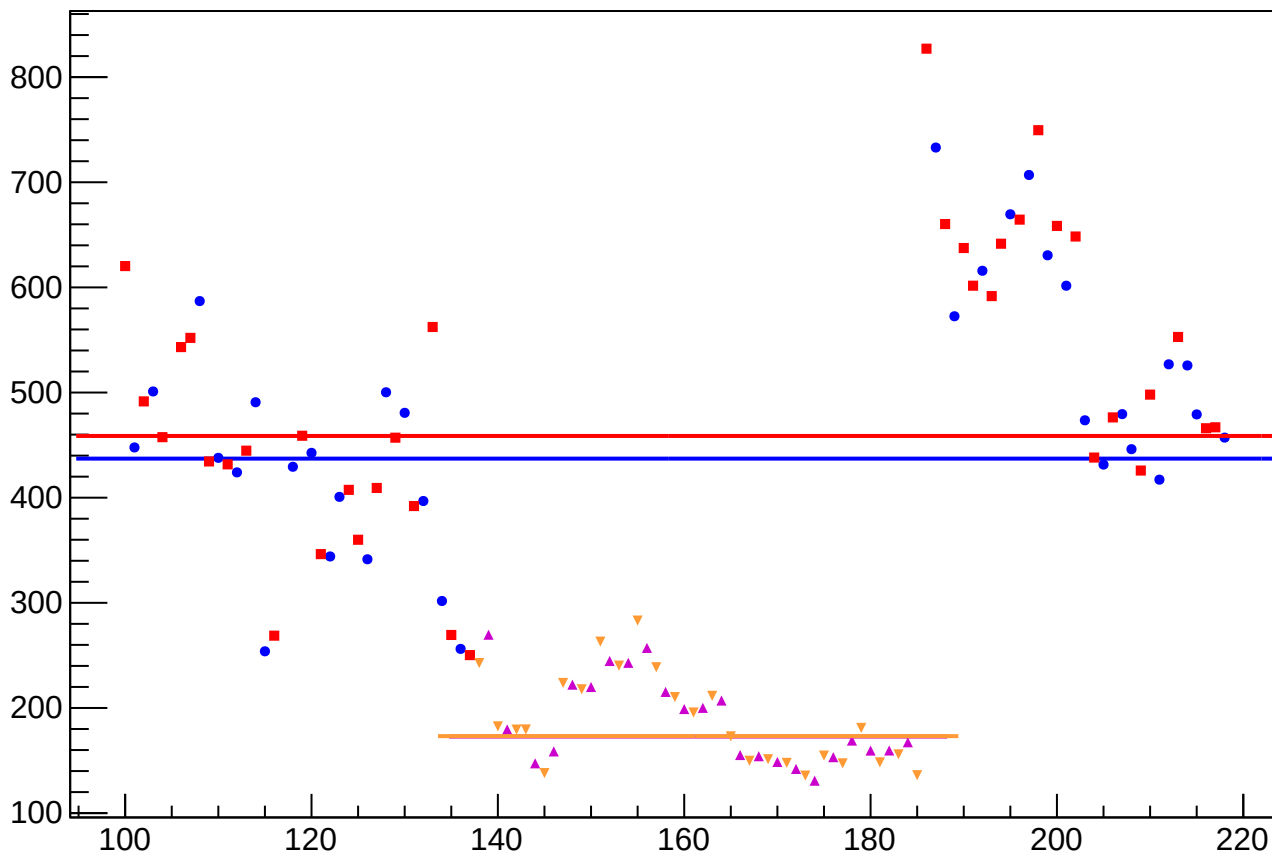
Right: 35.724 $\pm$ 76.498 χ^2 /NDF: 107.2/68

In: 43.536 $\pm$ 39.304 χ^2 /NDF: 90.5/55

Out: 116.680 $\pm$ 38.675 χ^2 /NDF: 123.8/60

All: 80.698 $\pm$ 27.567 χ^2 /NDF: 216.0/116

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 437.160 $\pm$ 0.075 χ^2 /NDF: 2346838.2/32

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 458.713 $\pm$ 0.078 χ^2 /NDF: 2529250.9/35

Left In: 172.828 $\pm$ 0.030 χ^2 /NDF:1372131.7/22

Left: 173.023 $\pm$ 0.021 χ^2 /NDF: 2933465.9/47

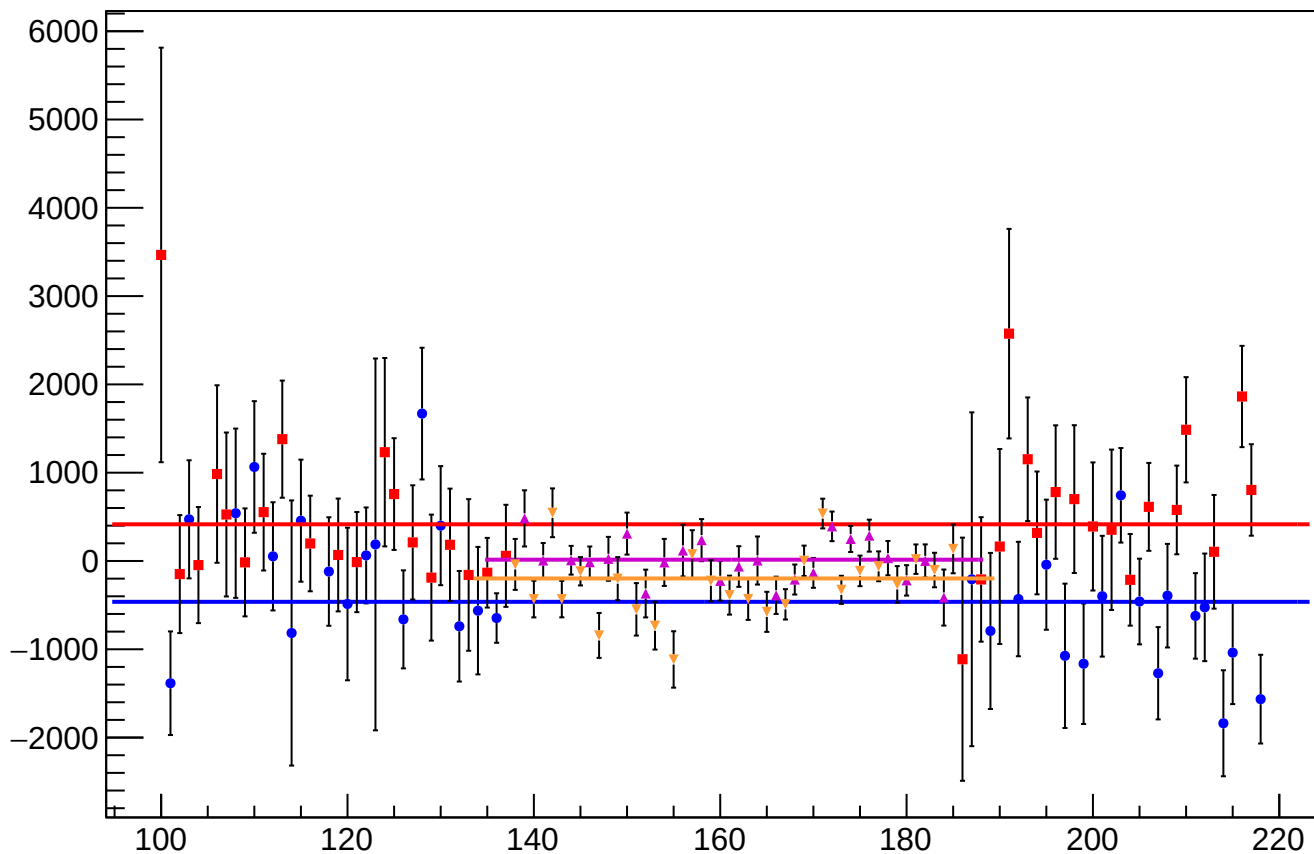
Right: 447.588 $\pm$ 0.054 χ^2 /NDF: 4915737.6/68

In: 208.846 $\pm$ 0.028 χ^2 /NDF:14365612.7/55

Out: 208.516 $\pm$ 0.027 χ^2 /NDF:15901948.8/60

All: 208.679 $\pm$ 0.019 χ^2 /NDF: 30267632.9/117

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -462.581 ± 106.737 $\chi^2/\text{NDF}: 44.9/32$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 415.512 ± 110.270 $\chi^2/\text{NDF}: 30.5/35$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

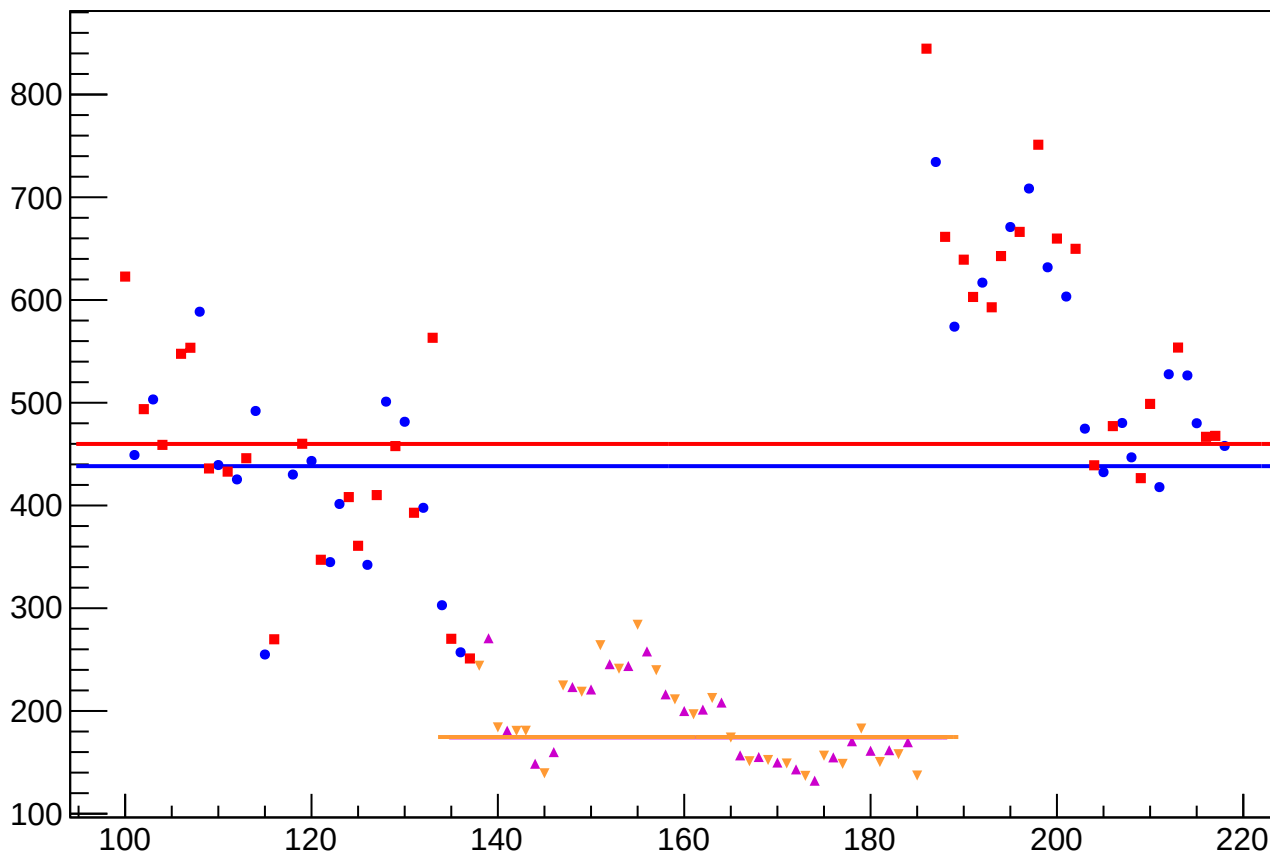
Right: -37.823 ± 76.693 $\chi^2/\text{NDF}: 108.1/68$

In: -51.030 ± 39.589 $\chi^2/\text{NDF}: 89.9/55$

Out: -121.367 ± 38.954 $\chi^2/\text{NDF}: 121.8/60$

All: -86.768 ± 27.766 $\chi^2/\text{NDF}: 213.3/116$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 438.291+/-0.075 χ^2/NDF : 2339080.5/32

Left Out: 174.648+/-0.029 χ^2/NDF : 1531999.5/24

Right Out: 459.897+/-0.078 χ^2/NDF : 2531651.0/35

Left In: 174.288+/-0.030 χ^2/NDF : 1344779.5/22

Left: 174.472+/-0.021 χ^2/NDF : 2876851.9/47

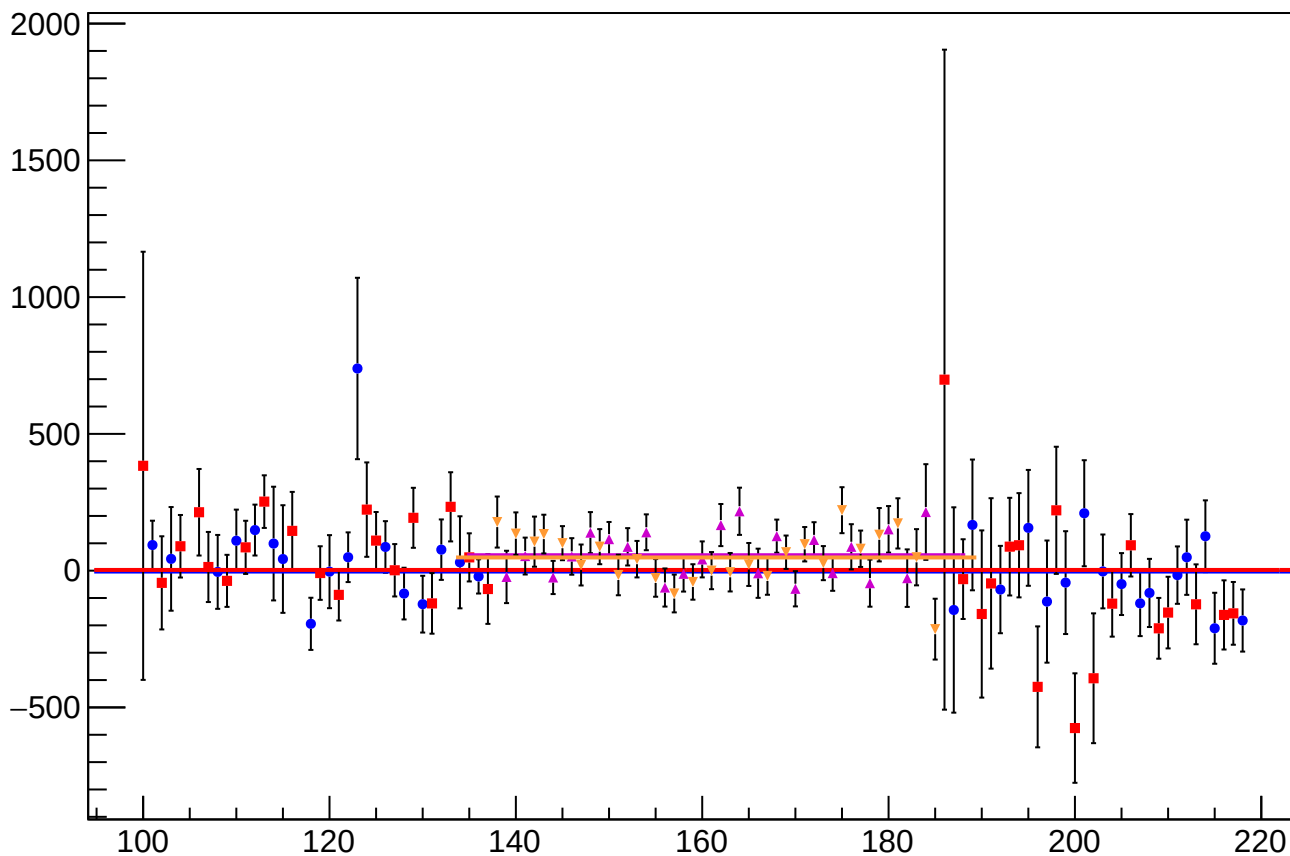
Right: 448.742+/-0.054 χ^2/NDF : 4910372.3/68

In: 210.606+/-0.028 χ^2/NDF : 14235941.1/55

Out: 210.244+/-0.028 χ^2/NDF : 15776902.3/60

All: 210.422+/-0.020 χ^2/NDF : 30012928.1/11

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -3.265 $\pm$ 21.300 χ^2 /NDF: 28.7/32

Left Out: 48.233 $\pm$ 14.616 χ^2 /NDF:29.3/24

Right Out: 2.588 $\pm$ 21.632 χ^2 /NDF: 51.1/35

Left In: 56.403 $\pm$ 15.182 χ^2 /NDF:27.5/22

Left: 52.163 $\pm$ 10.529 χ^2 /NDF: 56.9/47

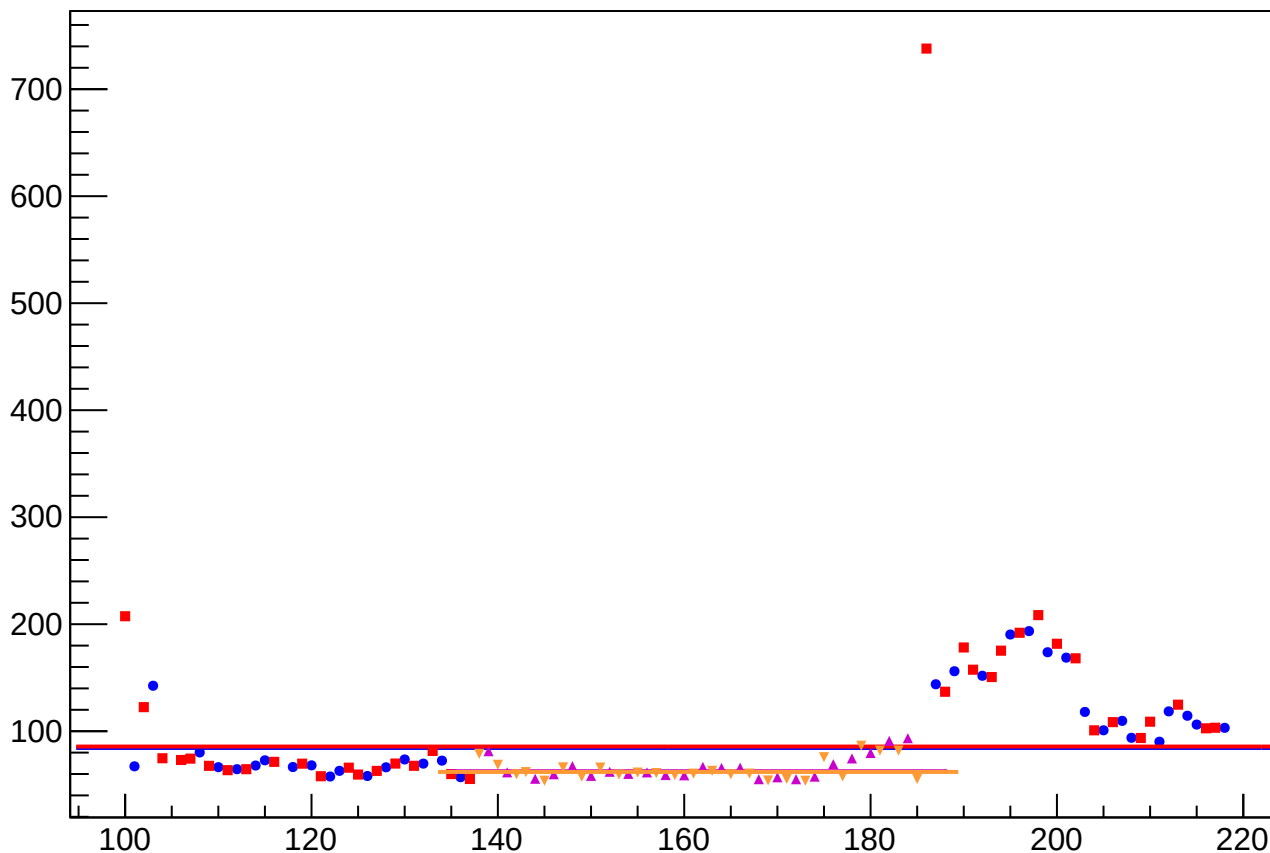
Right: -0.384 $\pm$ 15.178 χ^2 /NDF: 79.8/68

In: 36.302 $\pm$ 12.363 χ^2 /NDF:61.4/55

Out: 33.927 $\pm$ 12.111 χ^2 /NDF:83.4/60

All: 35.090 $\pm$ 8.651 χ^2 /NDF: 144.8/116

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 84.347+/-0.015 χ^2/NDF : 4394076.8/32

Left Out: 61.946+/-0.010 χ^2/NDF :604989.2/24

Right Out: 85.645+/-0.015 χ^2/NDF : 5317799.9/35

Left In: 62.607+/-0.011 χ^2/NDF :575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47

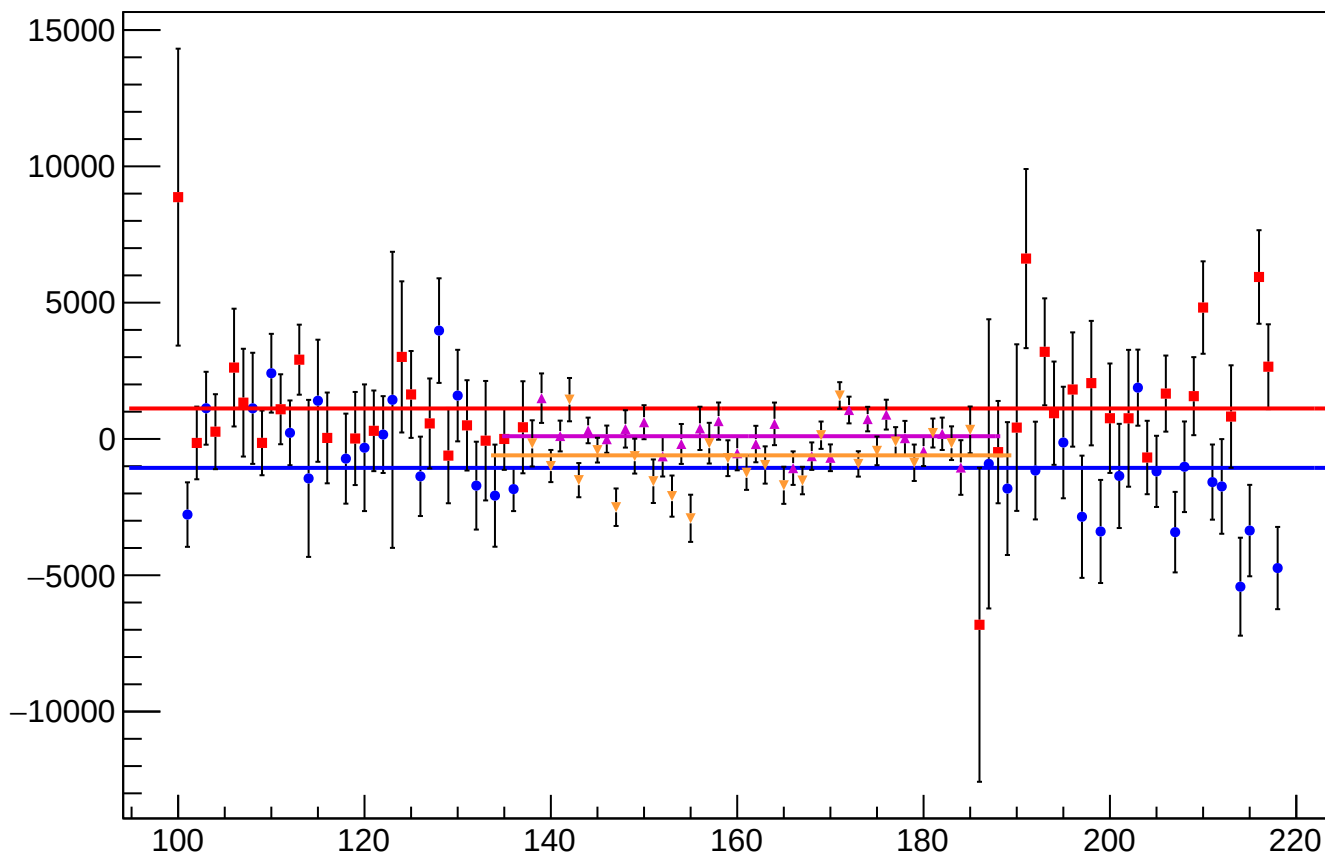
Right: 84.986+/-0.011 χ^2/NDF : 9715535.5/68

In: 69.931+/-0.009 χ^2/NDF :6351099.0/55

Out: 69.374+/-0.009 χ^2/NDF :7570831.8/60

All: 69.647+/-0.006 χ^2/NDF : 13924000.6/116

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -1061.209 $\pm$ 279.484 χ^2 /NDF: 49.5/32

Left Out: -601.486 $\pm$ 122.119 χ^2 /NDF:65.4/24

Right Out: 1118.371 $\pm$ 283.789 χ^2 /NDF: 33.9/35

Left In: 100.548 $\pm$ 124.725 χ^2 /NDF:25.5/22

Left: -257.880 $\pm$ 87.258 χ^2 /NDF: 107.0/47

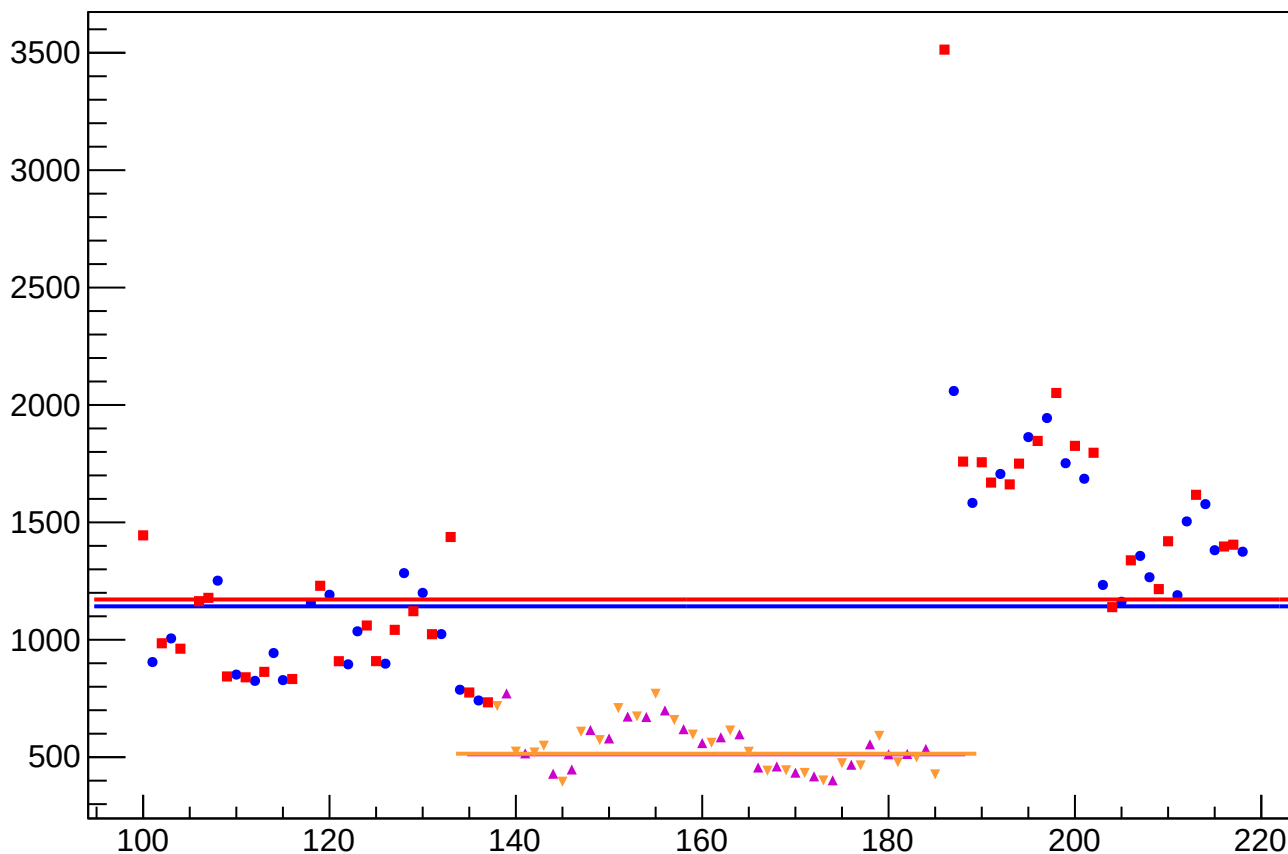
Right: 11.926 $\pm$ 199.130 χ^2 /NDF: 113.3/68

In: -92.396 $\pm$ 113.898 χ^2 /NDF:89.4/55

Out: -332.775 $\pm$ 112.174 χ^2 /NDF:130.3/60

All: -214.419 $\pm$ 79.921 χ^2 /NDF: 221.9/116

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1142.418+/-0.198 χ^2/NDF : 2641667.2/32

Left Out: 514.758+/-0.086 χ^2/NDF :1194945.9/24

Right Out: 1171.675+/-0.201 χ^2/NDF : 3200665.9/35

Left In: 512.199+/-0.088 χ^2/NDF :1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

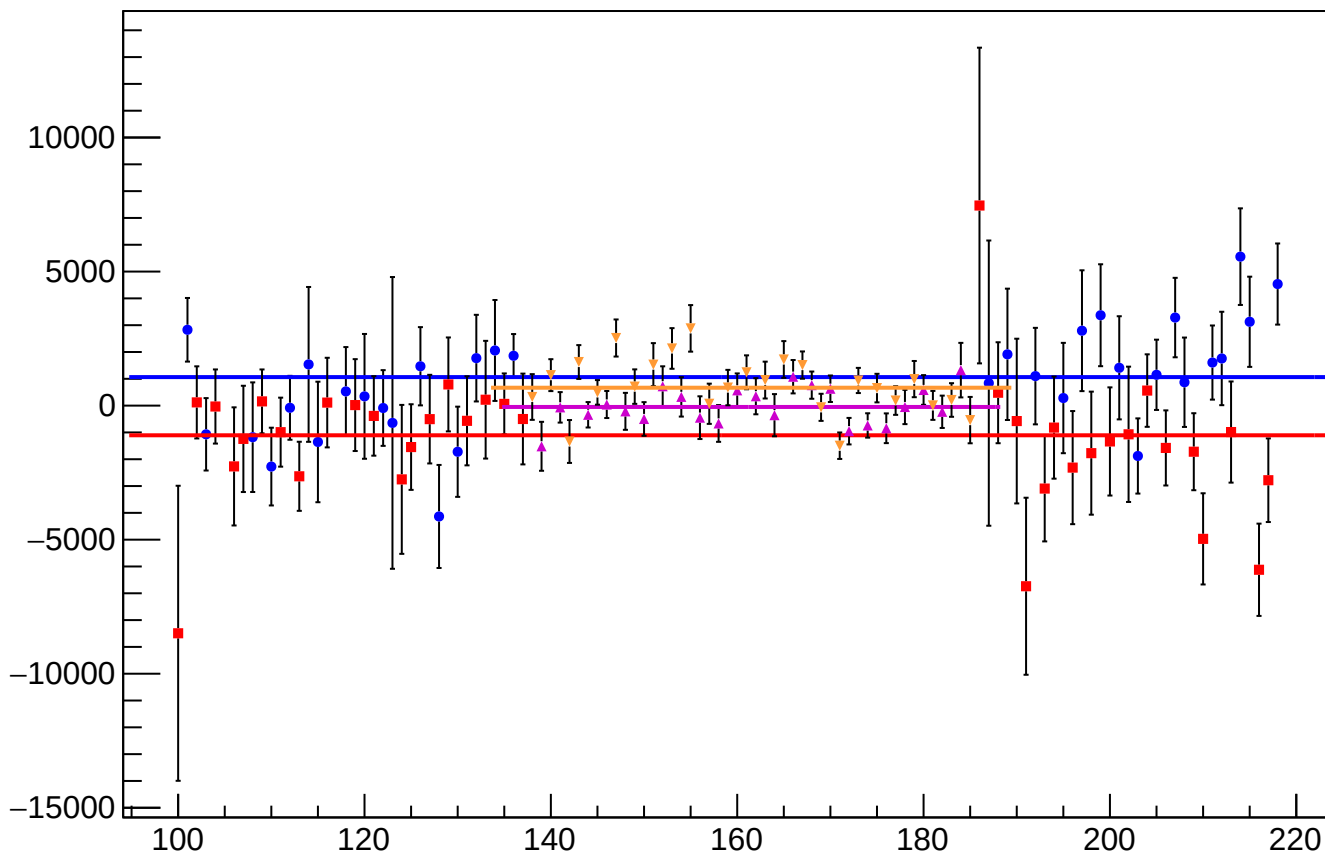
Right: 1156.823+/-0.141 χ^2/NDF : 5853123.6/68

In: 616.865+/-0.081 χ^2/NDF :12163493.9/55

Out: 617.394+/-0.079 χ^2/NDF :13437930.0/60

All: 617.134+/-0.057 χ^2/NDF : 25601445.9/117

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 1063.849 $\pm$ 280.500 χ^2 /NDF: 48.2/32

Left Out: 667.625 $\pm$ 123.146 χ^2 /NDF: 61.5/24

Right Out: -1106.704 $\pm$ 284.931 χ^2 /NDF: 34.5/35

Left In: -50.079 $\pm$ 125.805 χ^2 /NDF: 26.1/22

Left: 316.439 $\pm$ 88.002 χ^2 /NDF: 104.2/47

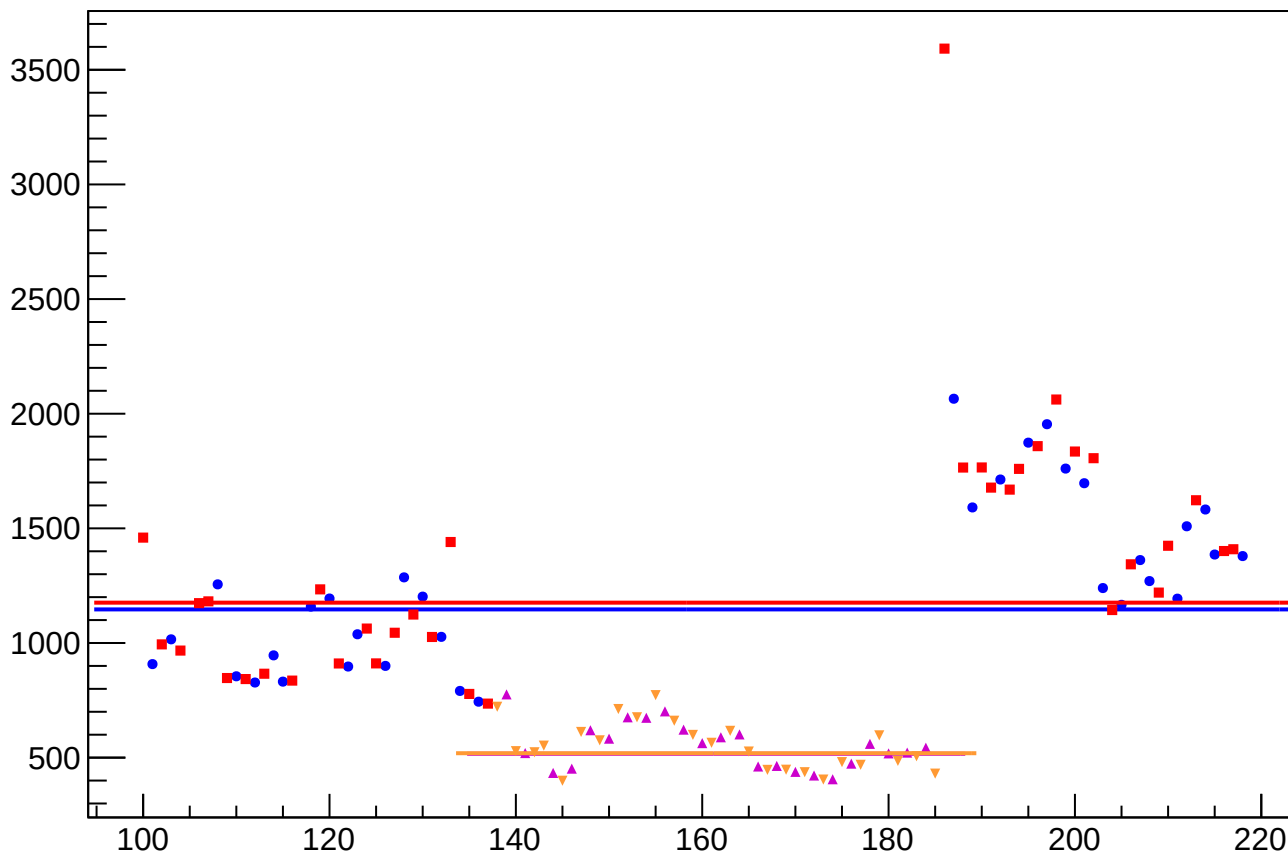
Right: -4.419 $\pm$ 199.892 χ^2 /NDF: 112.2/68

In: 136.468 $\pm$ 114.788 χ^2 /NDF: 87.4/55

Out: 388.359 $\pm$ 113.040 χ^2 /NDF: 128.7/60

All: 264.347 $\pm$ 80.542 χ^2 /NDF: 218.5/116

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1146.478 $\pm$ 0.198 χ^2 /NDF: 2647250.3/32

Left Out: 519.254 $\pm$ 0.087 χ^2 /NDF:1172411.1/24

Right Out: 1175.938 $\pm$ 0.201 χ^2 /NDF: 3213955.5/35

Left In: 516.792 $\pm$ 0.089 χ^2 /NDF:1021374.1/22

Left: 518.049 $\pm$ 0.062 χ^2 /NDF: 2194176.4/47

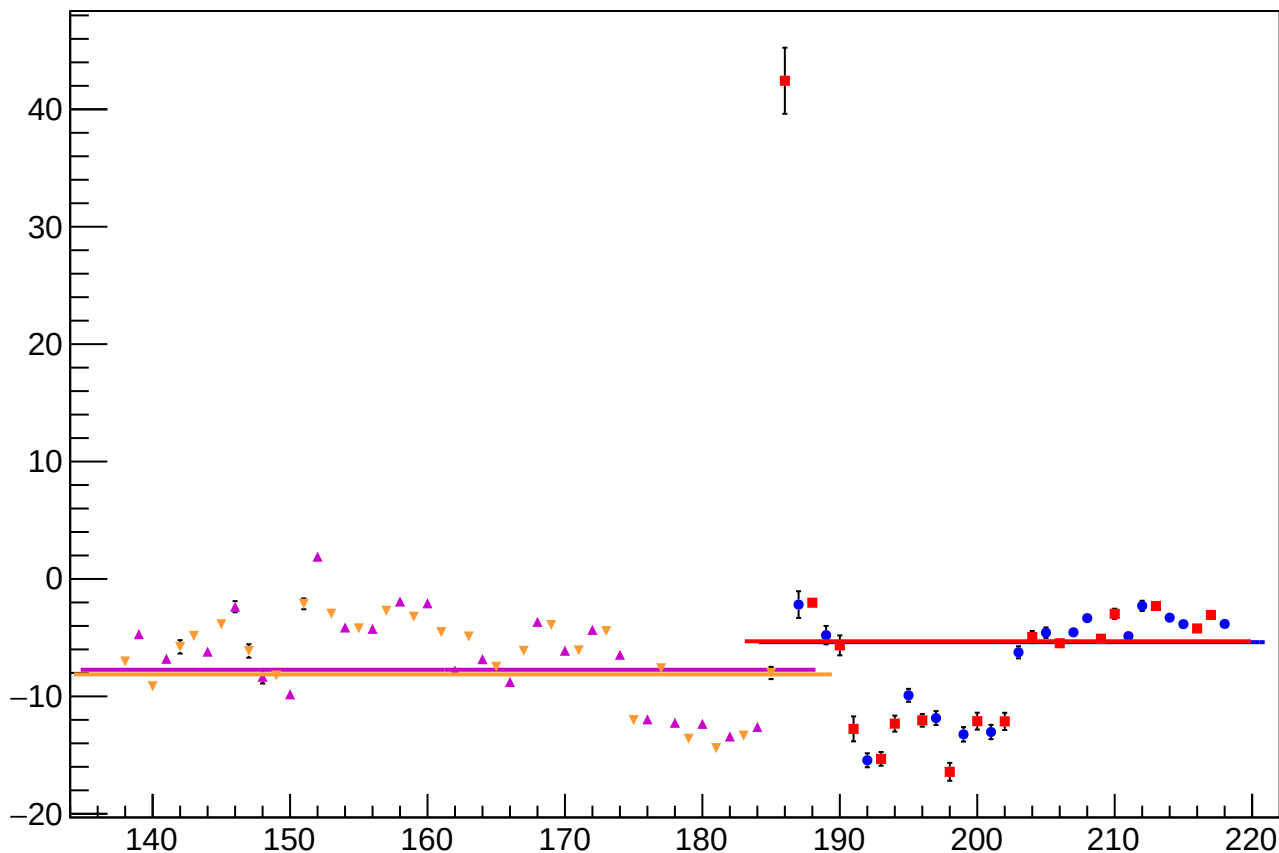
Right: 1160.977 $\pm$ 0.141 χ^2 /NDF: 5872063.5/68

In: 622.244 $\pm$ 0.081 χ^2 /NDF:12059615.6/55

Out: 622.611 $\pm$ 0.080 χ^2 /NDF:13337723.5/60

All: 622.430 $\pm$ 0.057 χ^2 /NDF: 25397349.5/117

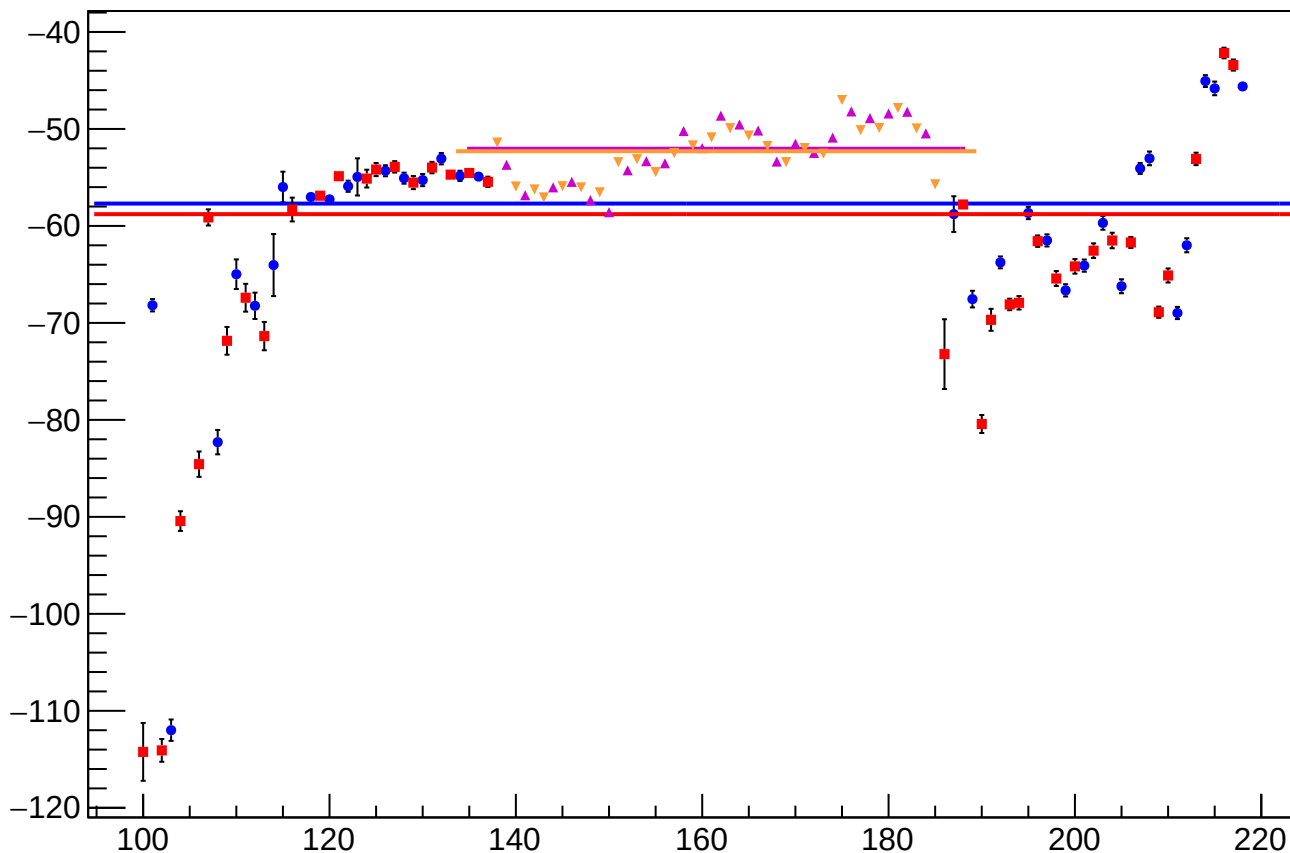
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.384 ± 0.107 χ^2/NDF : 995.9/15
 Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24
 Right Out: -5.306 ± 0.108 χ^2/NDF : 1574.3/16
 Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47
 Right: -5.345 ± 0.076 χ^2/NDF : 2570.5/32
 In: -7.049 ± 0.058 χ^2/NDF : 5053.4/38
 Out: -7.336 ± 0.057 χ^2/NDF : 5701.2/41
 All: -7.195 ± 0.041 χ^2/NDF : 10767.0/80

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.695 ± 0.108 $\chi^2/\text{NDF}: 5972.0/32$

Left Out: -52.297 ± 0.055 $\chi^2/\text{NDF}: 2657.5/24$

Right Out: -58.786 ± 0.108 $\chi^2/\text{NDF}: 8139.8/35$

Left In: -52.038 ± 0.057 $\chi^2/\text{NDF}: 3180.4/22$

Left: -52.172 ± 0.040 $\chi^2/\text{NDF}: 5848.6/47$

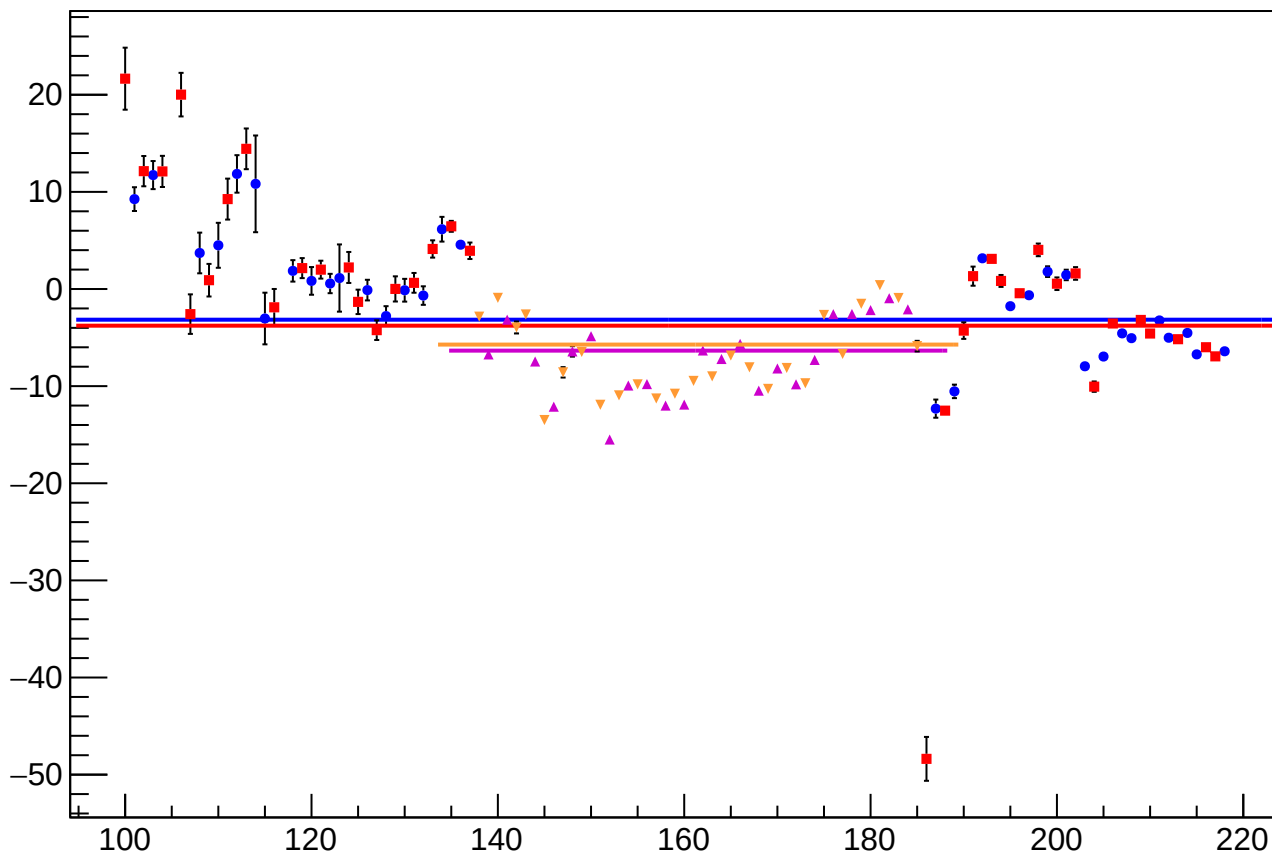
Right: -58.242 ± 0.076 $\chi^2/\text{NDF}: 14163.0/68$

In: -53.274 ± 0.051 $\chi^2/\text{NDF}: 11293.7/55$

Out: -53.641 ± 0.049 $\chi^2/\text{NDF}: 13673.4/60$

All: -53.463 ± 0.035 $\chi^2/\text{NDF}: 24994.2/116$

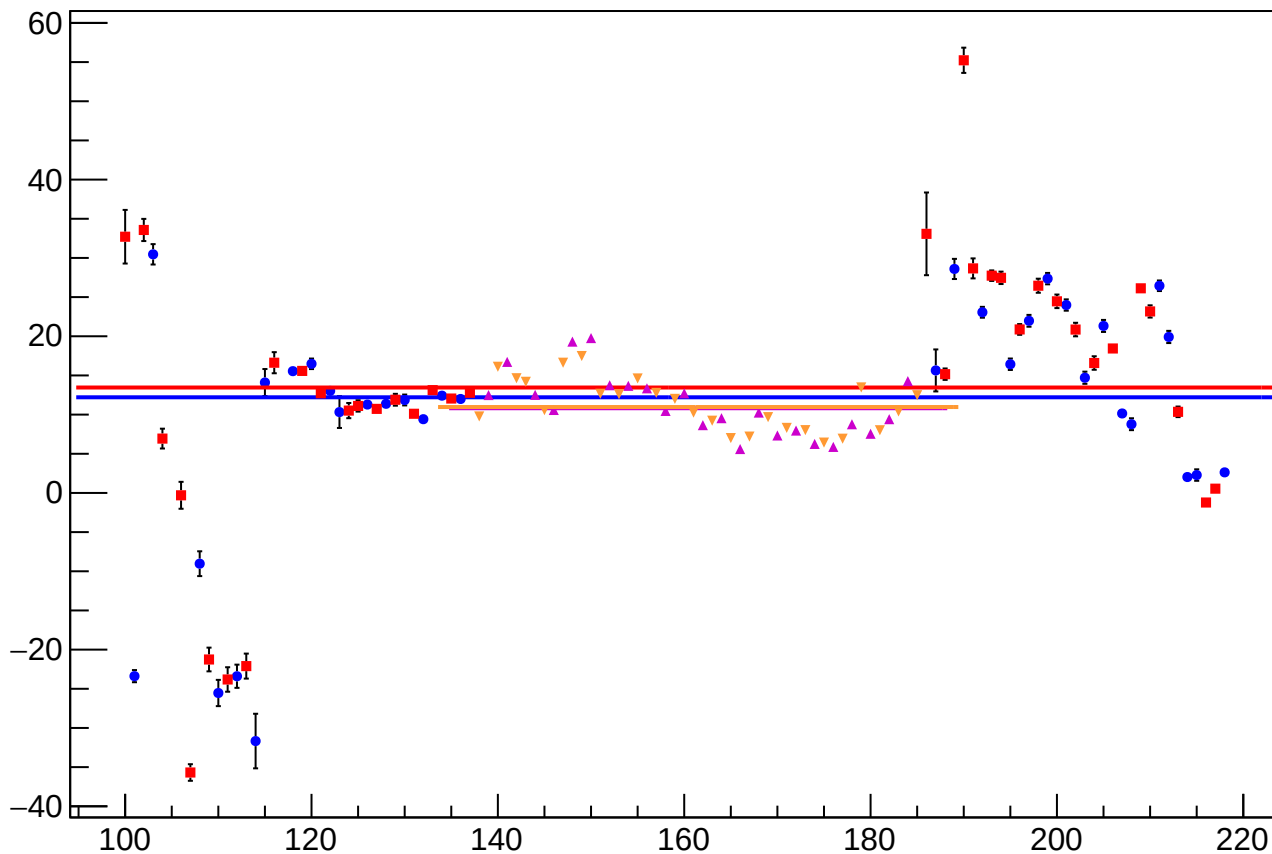
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.159 ± 0.100 $\chi^2/\text{NDF}: 1757.6/32$
 Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$
 Right Out: -3.775 ± 0.099 $\chi^2/\text{NDF}: 3406.9/35$
 Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$
 Right: -3.468 ± 0.070 $\chi^2/\text{NDF}: 5183.6/68$
 In: -5.320 ± 0.057 $\chi^2/\text{NDF}: 5833.6/55$
 Out: -5.105 ± 0.056 $\chi^2/\text{NDF}: 7652.8/60$
 All: -5.211 ± 0.040 $\chi^2/\text{NDF}: 13493.7/116$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.210+/-0.119 χ^2/NDF : 6676.2/32

Left Out: 10.967+/-0.061 χ^2/NDF : 2637.7/24

Right Out: 13.459+/-0.121 χ^2/NDF : 8156.0/35

Left In: 10.813+/-0.063 χ^2/NDF : 3546.8/22

Left: 10.892+/-0.044 χ^2/NDF : 6187.5/47

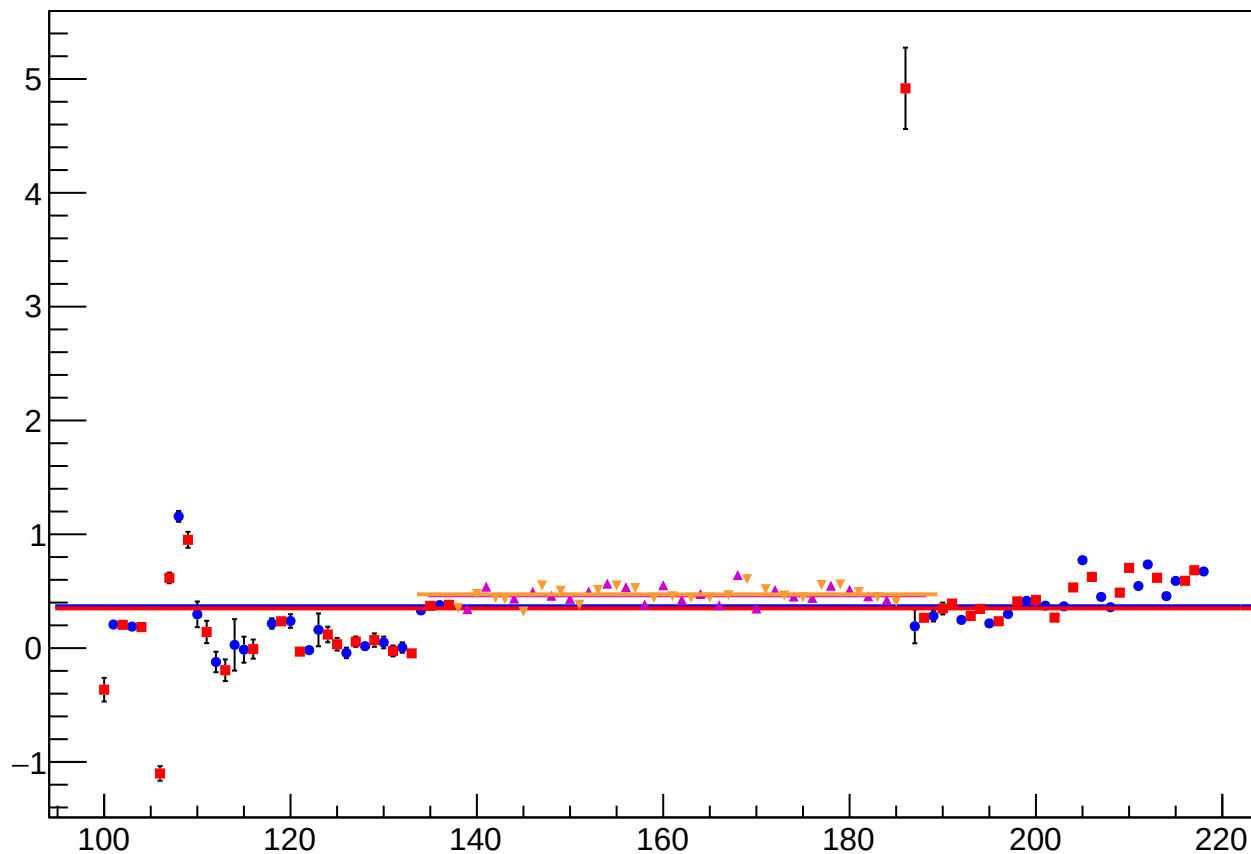
Right: 12.826+/-0.085 χ^2/NDF : 14886.1/68

In: 11.118+/-0.056 χ^2/NDF : 10329.8/55

Out: 11.476+/-0.055 χ^2/NDF : 11130.4/60

All: 11.301+/-0.039 χ^2/NDF : 21481.2/116

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.367 $\pm$ 0.005 χ^2 /NDF: 1249.3/32

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF: 519.0/24

Right Out: 0.349 $\pm$ 0.005 χ^2 /NDF: 1878.8/35

Left In: 0.464 $\pm$ 0.003 χ^2 /NDF: 733.1/22

Left: 0.468 $\pm$ 0.002 χ^2 /NDF: 1256.2/47

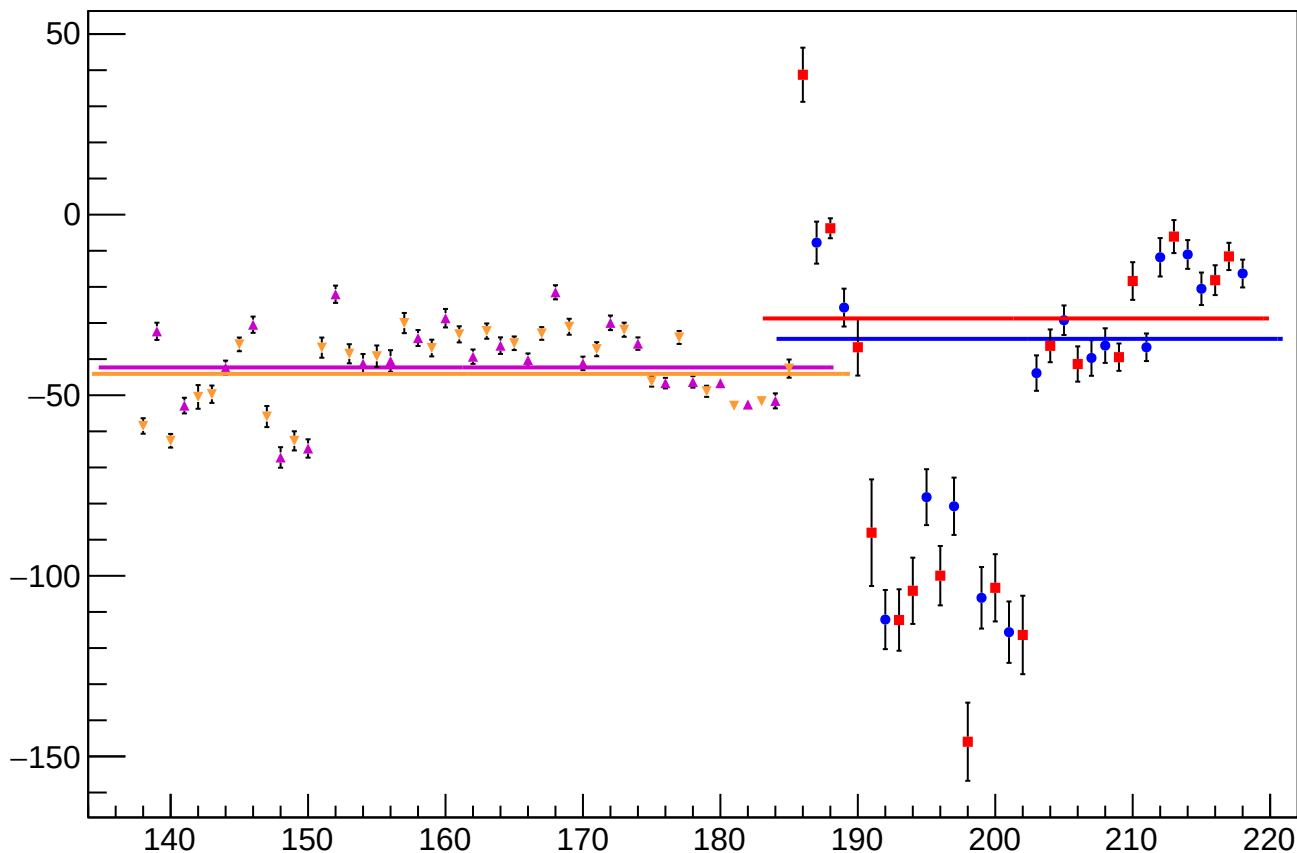
Right: 0.358 $\pm$ 0.004 χ^2 /NDF: 3134.0/68

In: 0.443 $\pm$ 0.002 χ^2 /NDF: 2243.3/55

Out: 0.447 $\pm$ 0.002 χ^2 /NDF: 2809.4/60

All: 0.445 $\pm$ 0.002 χ^2 /NDF: 5053.7/116

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected

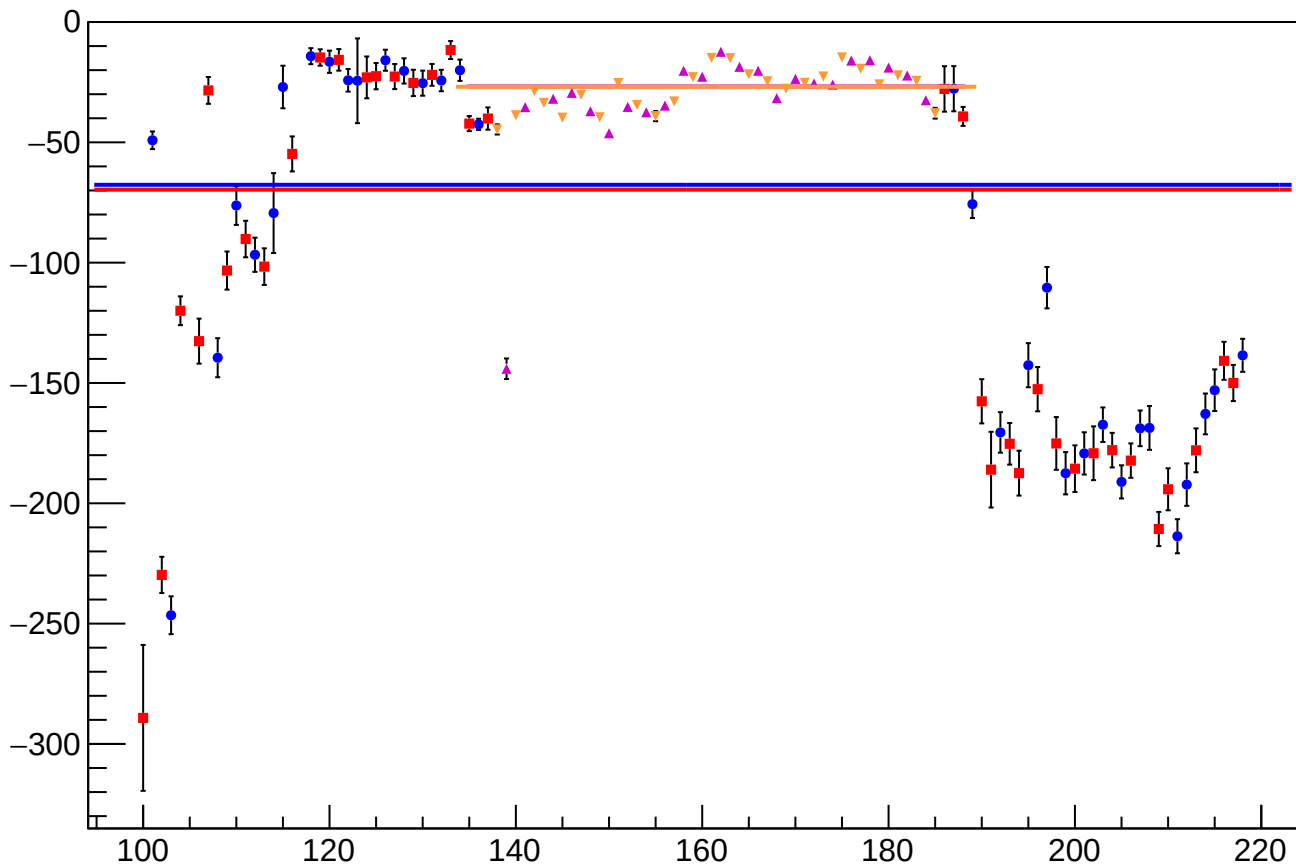


Right In: -34.391 ± 1.280 $\chi^2/\text{NDF}: 433.0/15$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: -28.739 ± 1.278 $\chi^2/\text{NDF}: 738.5/16$
 Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$
 Right: -31.562 ± 0.904 $\chi^2/\text{NDF}: 1181.3/32$
 In: -41.602 ± 0.381 $\chi^2/\text{NDF}: 1108.5/38$
 Out: -42.780 ± 0.372 $\chi^2/\text{NDF}: 1502.8/41$

All: -42.206 ± 0.266 $\chi^2/\text{NDF}: 2616.2/80$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -67.648 ± 0.992 $\chi^2/\text{NDF}: 4136.5/32$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -69.673 ± 1.024 $\chi^2/\text{NDF}: 4201.2/35$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

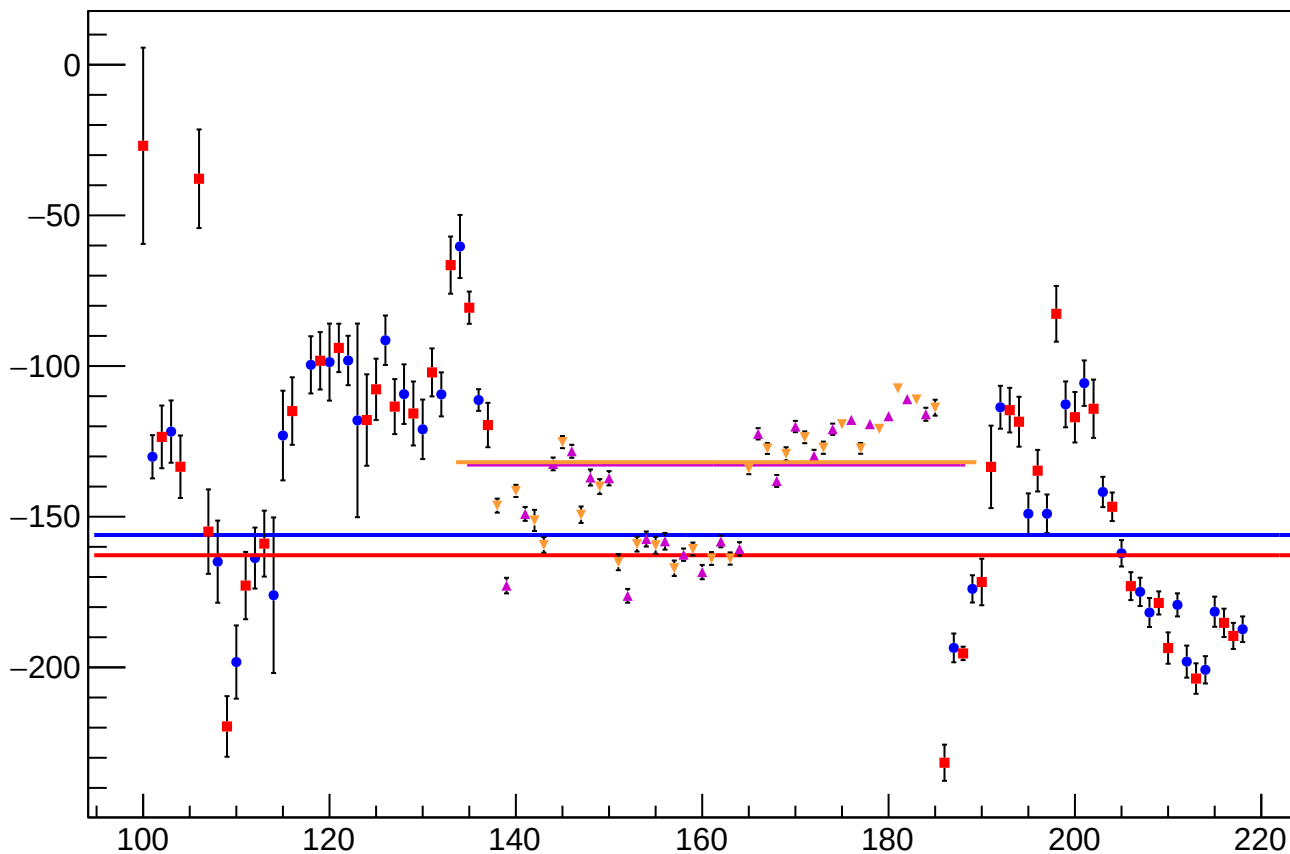
Right: -68.628 ± 0.713 $\chi^2/\text{NDF}: 8339.7/68$

In: -30.761 ± 0.310 $\chi^2/\text{NDF}: 7061.6/55$

Out: -30.627 ± 0.302 $\chi^2/\text{NDF}: 6424.9/60$

All: -30.692 ± 0.216 $\chi^2/\text{NDF}: 13486.6/116$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -156.078 ± 1.084 $\chi^2/\text{NDF}: 1048.9/32$

Left Out: -131.912 ± 0.391 $\chi^2/\text{NDF}: 2439.3/24$

Right Out: -162.789 ± 1.067 $\chi^2/\text{NDF}: 1550.9/35$

Left In: -132.690 ± 0.399 $\chi^2/\text{NDF}: 2480.2/22$

Left: -132.293 ± 0.280 $\chi^2/\text{NDF}: 4921.5/47$

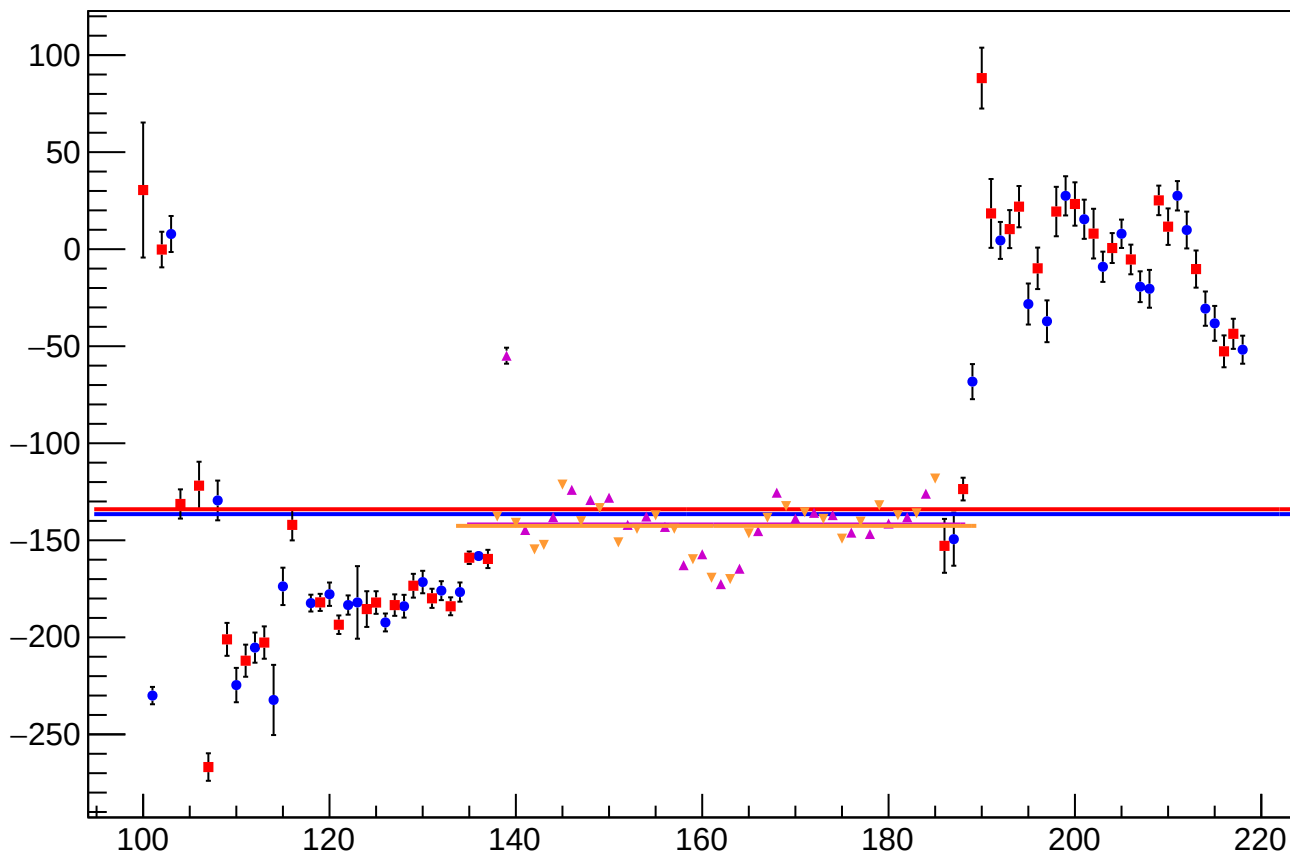
Right: -159.487 ± 0.760 $\chi^2/\text{NDF}: 2619.2/68$

In: -135.487 ± 0.375 $\chi^2/\text{NDF}: 3939.1/55$

Out: -135.578 ± 0.367 $\chi^2/\text{NDF}: 4728.9/60$

All: -135.533 ± 0.262 $\chi^2/\text{NDF}: 8668.0/116$

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -136.524 ± 1.110 χ^2/NDF : 4703.5/32

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -134.000 ± 1.165 χ^2/NDF : 4576.3/35

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

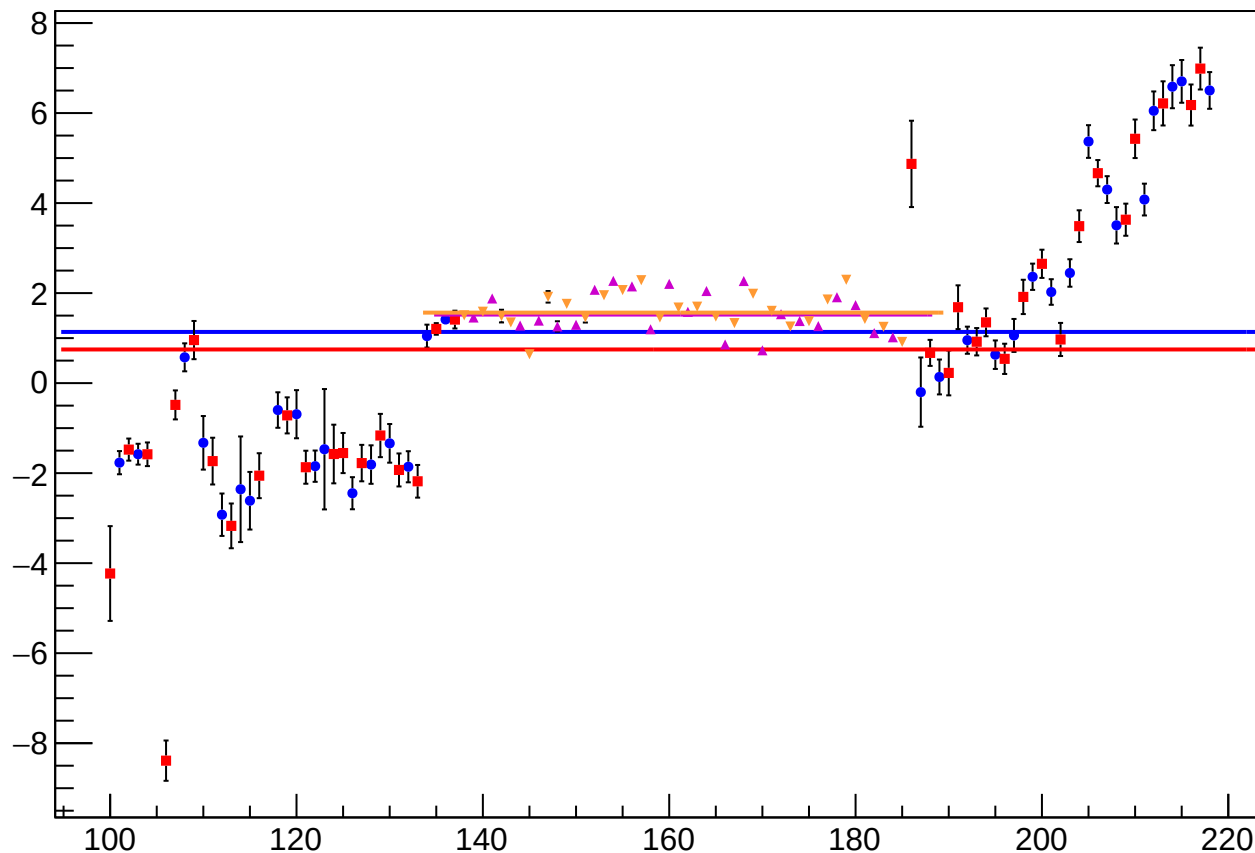
Right: -135.323 ± 0.804 χ^2/NDF : 9282.3/68

In: -141.339 ± 0.346 χ^2/NDF : 6268.6/55

Out: -141.840 ± 0.339 χ^2/NDF : 5773.5/60

All: -141.595 ± 0.242 χ^2/NDF : 12043.1/116

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 1.137 $\pm$ 0.054 χ^2 /NDF: 1757.0/32

Left Out: 1.566 $\pm$ 0.016 χ^2 /NDF:542.8/24

Right Out: 0.748 $\pm$ 0.056 χ^2 /NDF: 1977.7/35

Left In: 1.523 $\pm$ 0.017 χ^2 /NDF:738.5/22

Left: 1.545 $\pm$ 0.012 χ^2 /NDF: 1284.8/47

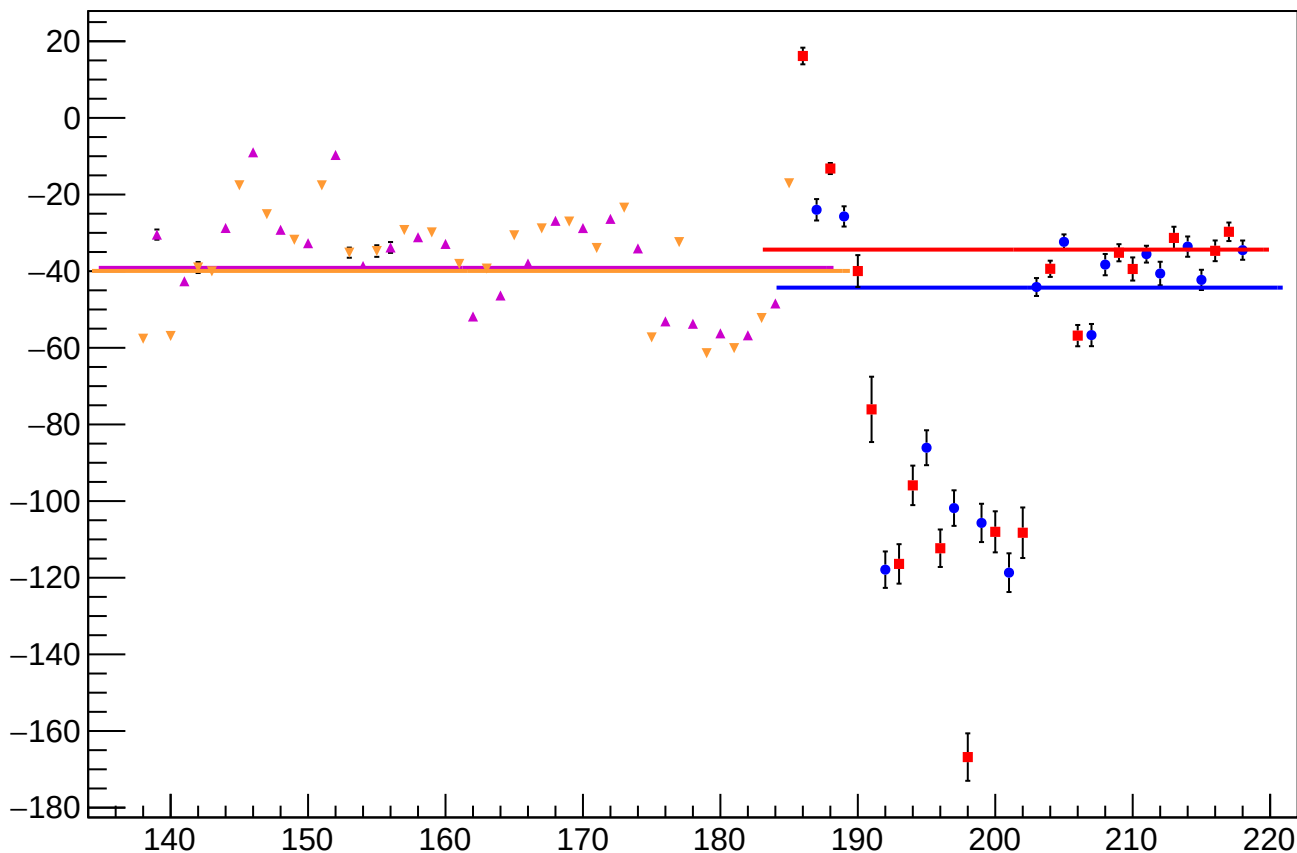
Right: 0.951 $\pm$ 0.039 χ^2 /NDF: 3759.9/68

In: 1.490 $\pm$ 0.016 χ^2 /NDF:2542.6/55

Out: 1.503 $\pm$ 0.016 χ^2 /NDF:2717.5/60

All: 1.497 $\pm$ 0.011 χ^2 /NDF: 5260.5/116

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -44.296 ± 0.717 χ^2/NDF : 1057.4/15

Left Out: -39.935 ± 0.153 χ^2/NDF : 9806.5/24

Right Out: -34.372 ± 0.697 χ^2/NDF : 2283.4/16

Left In: -39.137 ± 0.155 χ^2/NDF : 8534.5/22

Left: -39.540 ± 0.109 χ^2/NDF : 18354.5/47

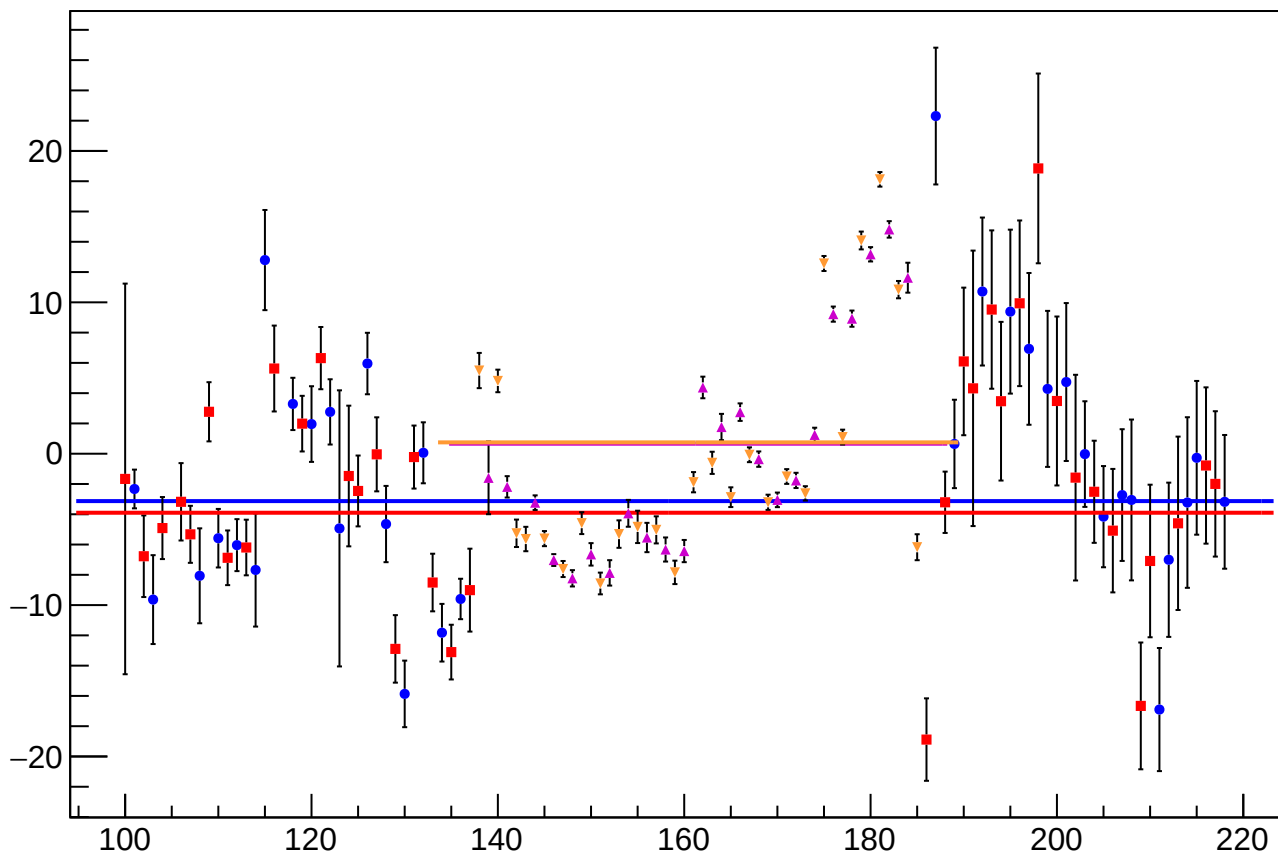
Right: -39.193 ± 0.500 χ^2/NDF : 3439.2/32

In: -39.366 ± 0.151 χ^2/NDF : 9641.3/38

Out: -39.679 ± 0.150 χ^2/NDF : 12150.6/41

All: -39.524 ± 0.106 χ^2/NDF : 21794.1/80

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.130 ± 0.454 $\chi^2/\text{NDF}: 231.5/32$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.900 ± 0.454 $\chi^2/\text{NDF}: 197.9/35$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

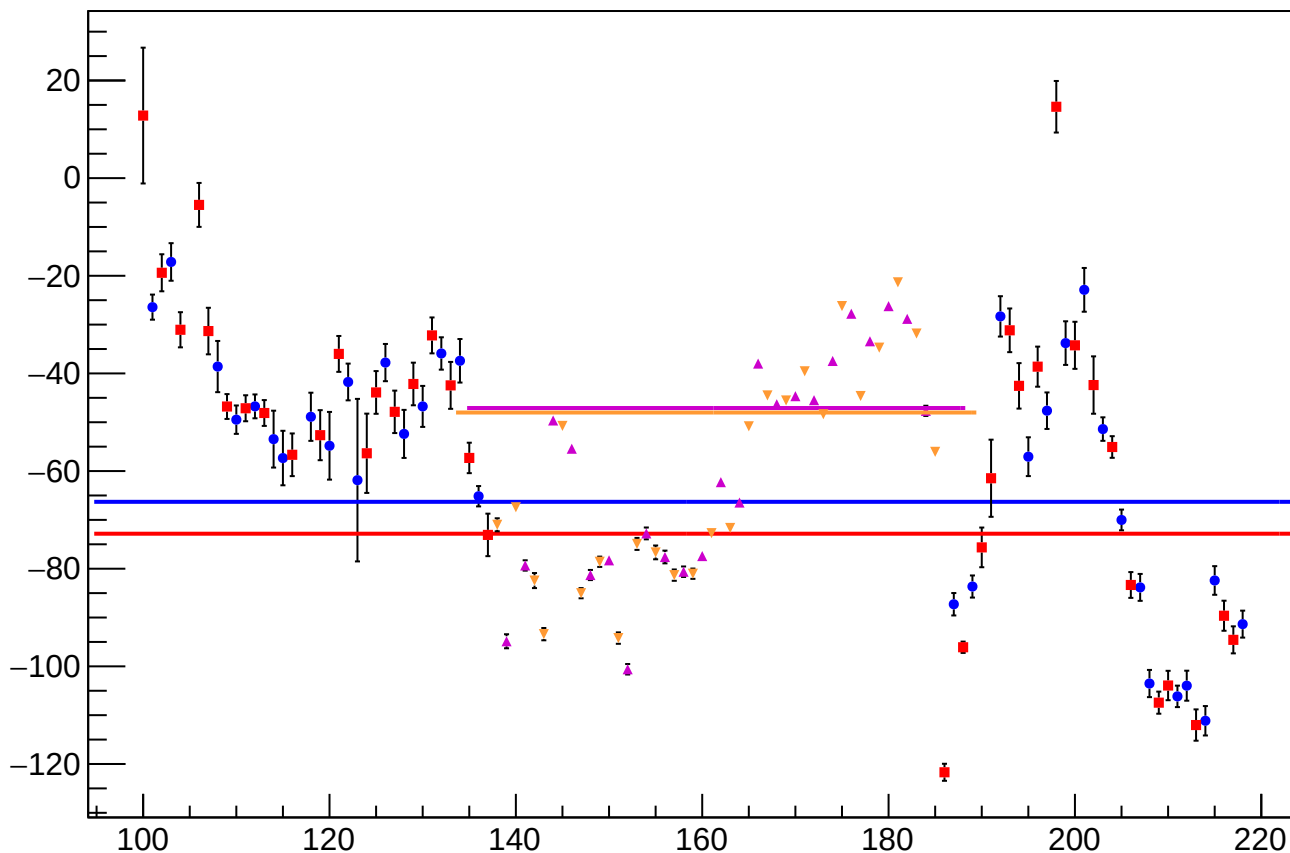
Right: -3.515 ± 0.321 $\chi^2/\text{NDF}: 430.9/68$

In: 0.396 ± 0.120 $\chi^2/\text{NDF}: 3634.1/55$

Out: 0.425 ± 0.120 $\chi^2/\text{NDF}: 4266.4/60$

All: 0.411 ± 0.085 $\chi^2/\text{NDF}: 7900.6/116$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.300 ± 0.552 $\chi^2/\text{NDF}: 2283.1/32$

Left Out: -48.008 ± 0.155 $\chi^2/\text{NDF}: 16950.0/24$

Right Out: -72.832 ± 0.521 $\chi^2/\text{NDF}: 3816.6/35$

Left In: -47.085 ± 0.155 $\chi^2/\text{NDF}: 15515.2/22$

Left: -47.548 ± 0.110 $\chi^2/\text{NDF}: 32482.9/47$

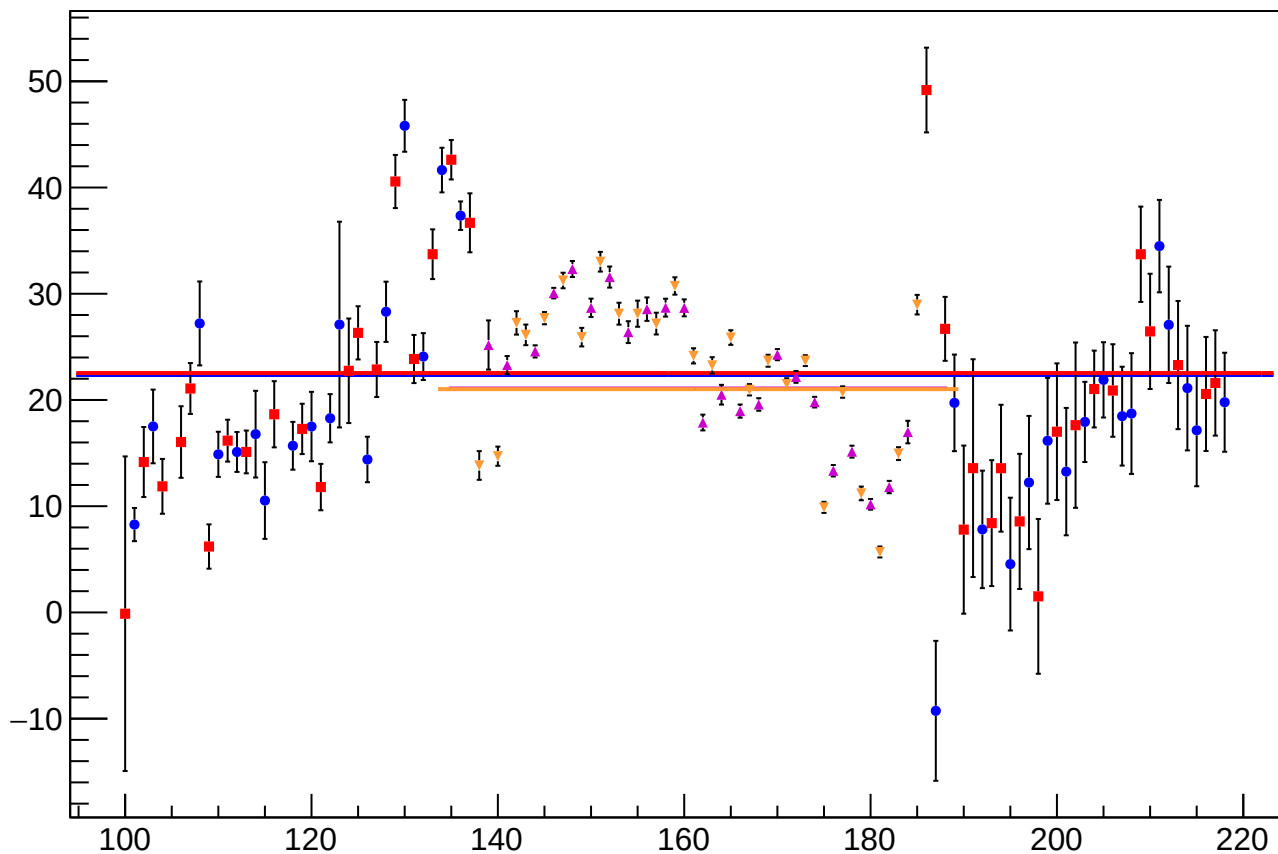
Right: -69.758 ± 0.379 $\chi^2/\text{NDF}: 6173.8/68$

In: -48.494 ± 0.150 $\chi^2/\text{NDF}: 18920.4/55$

Out: -50.022 ± 0.148 $\chi^2/\text{NDF}: 22856.6/60$

All: -49.264 ± 0.105 $\chi^2/\text{NDF}: 41829.6/116$

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.353 $\pm$ 0.511 χ^2 /NDF: 515.9/32

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.536 $\pm$ 0.520 χ^2 /NDF: 446.7/35

Left In: 21.079 $\pm$ 0.140 χ^2 /NDF:2173.2/22

Left: 21.049 $\pm$ 0.098 χ^2 /NDF: 4972.6/47

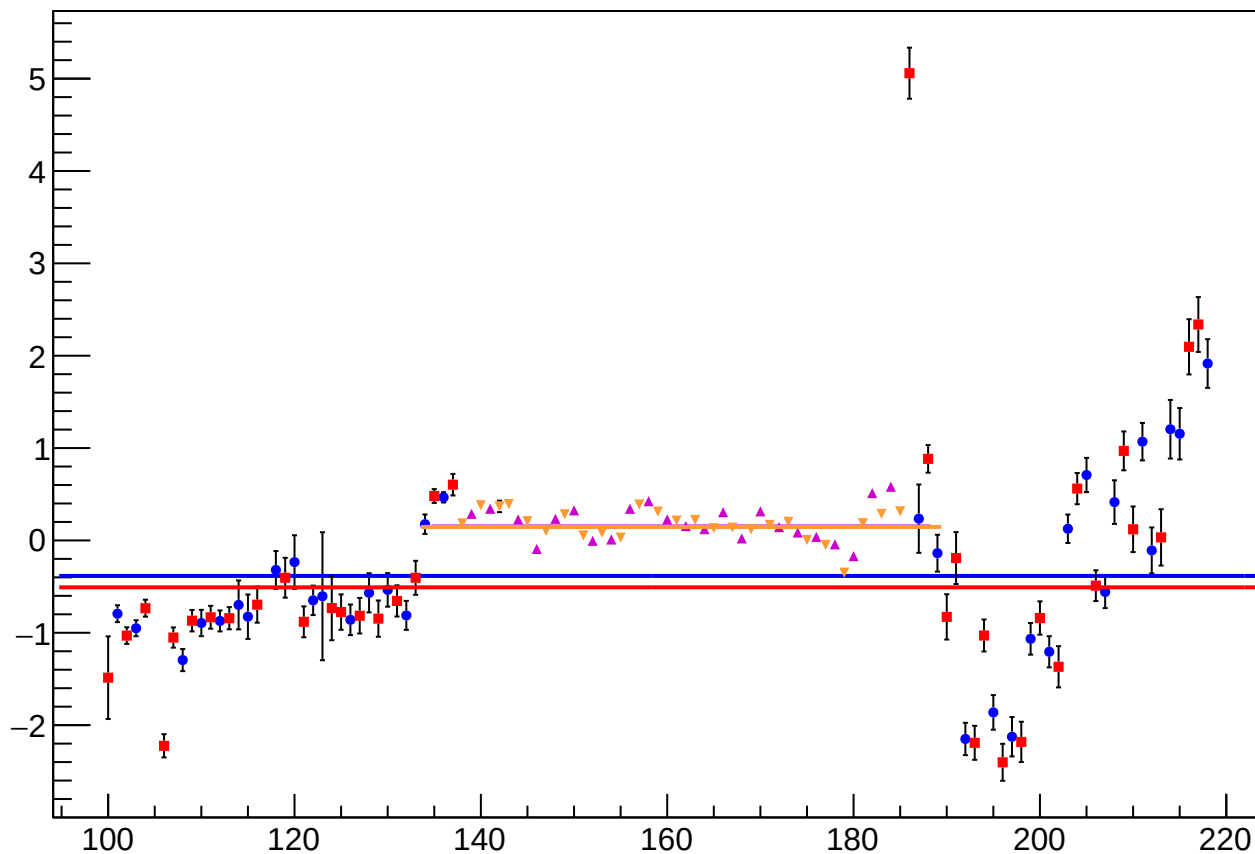
Right: 22.443 $\pm$ 0.365 χ^2 /NDF: 962.6/68

In: 21.167 $\pm$ 0.135 χ^2 /NDF:2694.9/55

Out: 21.121 $\pm$ 0.134 χ^2 /NDF:3253.8/60

All: 21.144 $\pm$ 0.095 χ^2 /NDF: 5948.8/116

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.384 ± 0.026 χ^2/NDF : 954.9/32

Left Out: 0.146 ± 0.006 χ^2/NDF : 610.2/24

Right Out: -0.508 ± 0.026 χ^2/NDF : 1582.8/35

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

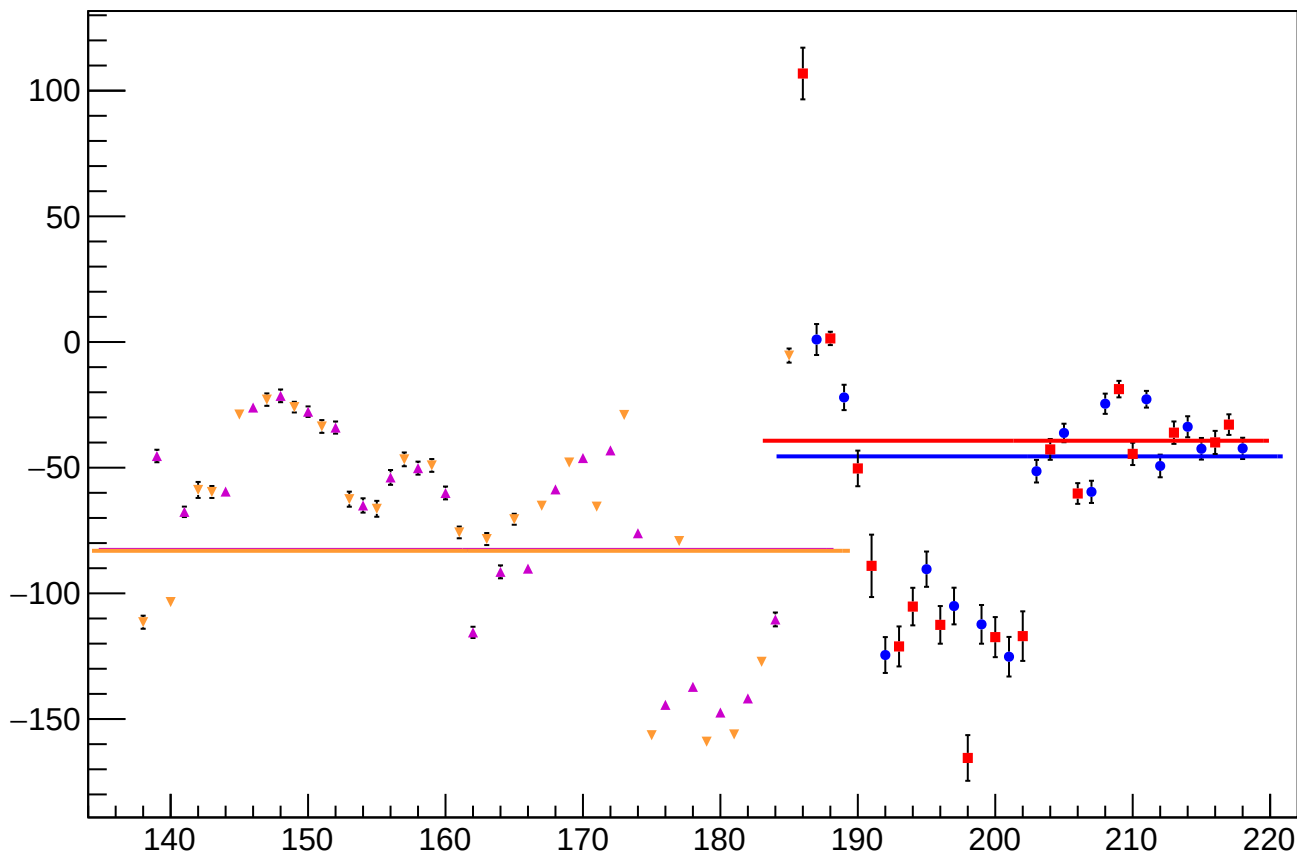
Right: -0.446 ± 0.018 χ^2/NDF : 2549.0/68

In: 0.120 ± 0.006 χ^2/NDF : 2225.8/55

Out: 0.110 ± 0.006 χ^2/NDF : 2791.9/60

All: 0.115 ± 0.004 χ^2/NDF : 5019.3/116

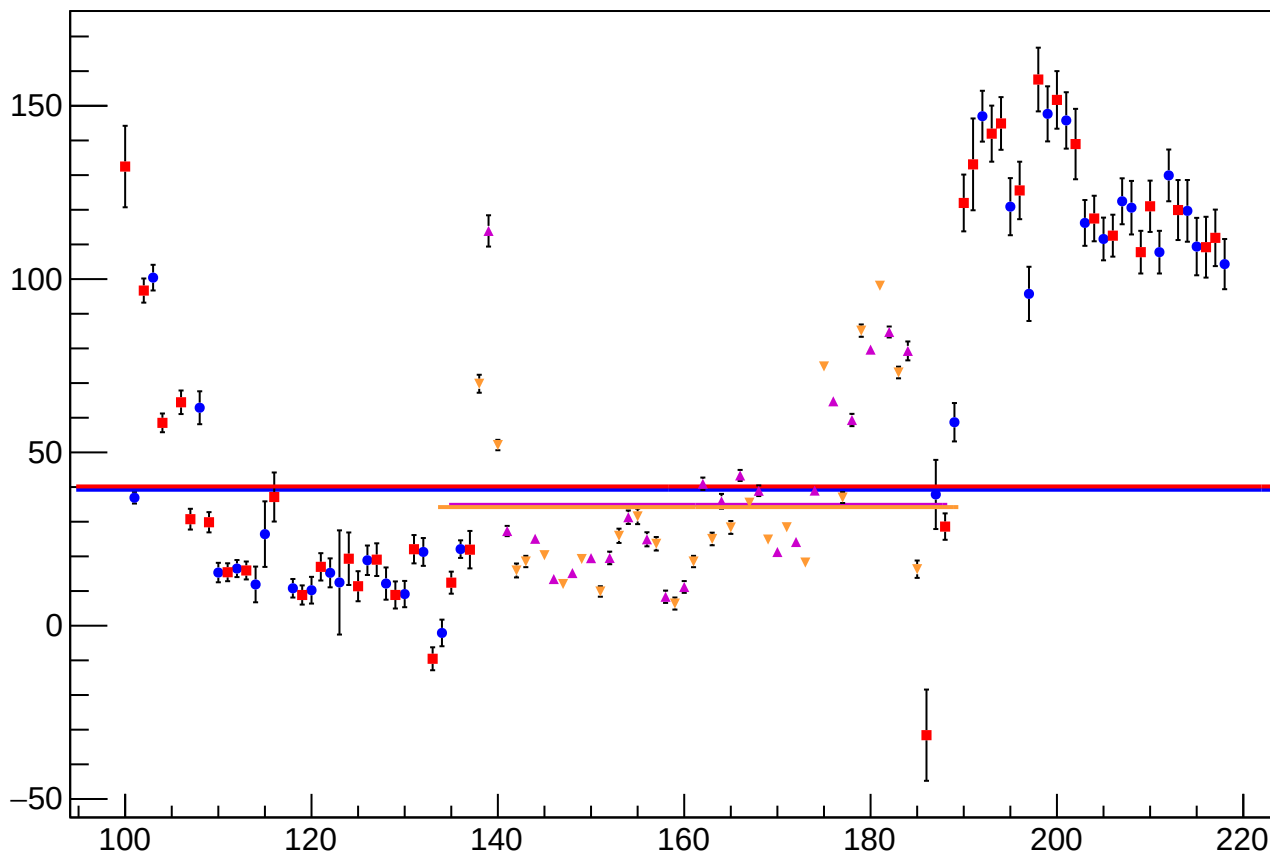
reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -45.501 $\pm$ 1.195 χ^2 /NDF: 588.3/15
 Left Out: -83.068 $\pm$ 0.406 χ^2 /NDF:13817.3/24
 Right Out: -39.276 $\pm$ 1.208 χ^2 /NDF: 1156.4/16
 Left In: -82.711 $\pm$ 0.415 χ^2 /NDF:10841.4/22

Left: -82.893 $\pm$ 0.290 χ^2 /NDF: 24659.1/47
 Right: -42.422 $\pm$ 0.849 χ^2 /NDF: 1758.1/32
 In: -78.703 $\pm$ 0.392 χ^2 /NDF:12295.0/38
 Out: -78.616 $\pm$ 0.385 χ^2 /NDF:16154.5/41
 All: -78.659 $\pm$ 0.275 χ^2 /NDF: 28449.5/80

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 39.228+/-0.738 χ^2/NDF : 2778.7/32

Left Out: 34.219+/-0.320 χ^2/NDF : 6192.6/24

Right Out: 40.175+/-0.738 χ^2/NDF : 3081.1/35

Left In: 34.870+/-0.329 χ^2/NDF : 4716.1/22

Left: 34.535+/-0.230 χ^2/NDF : 10910.7/47

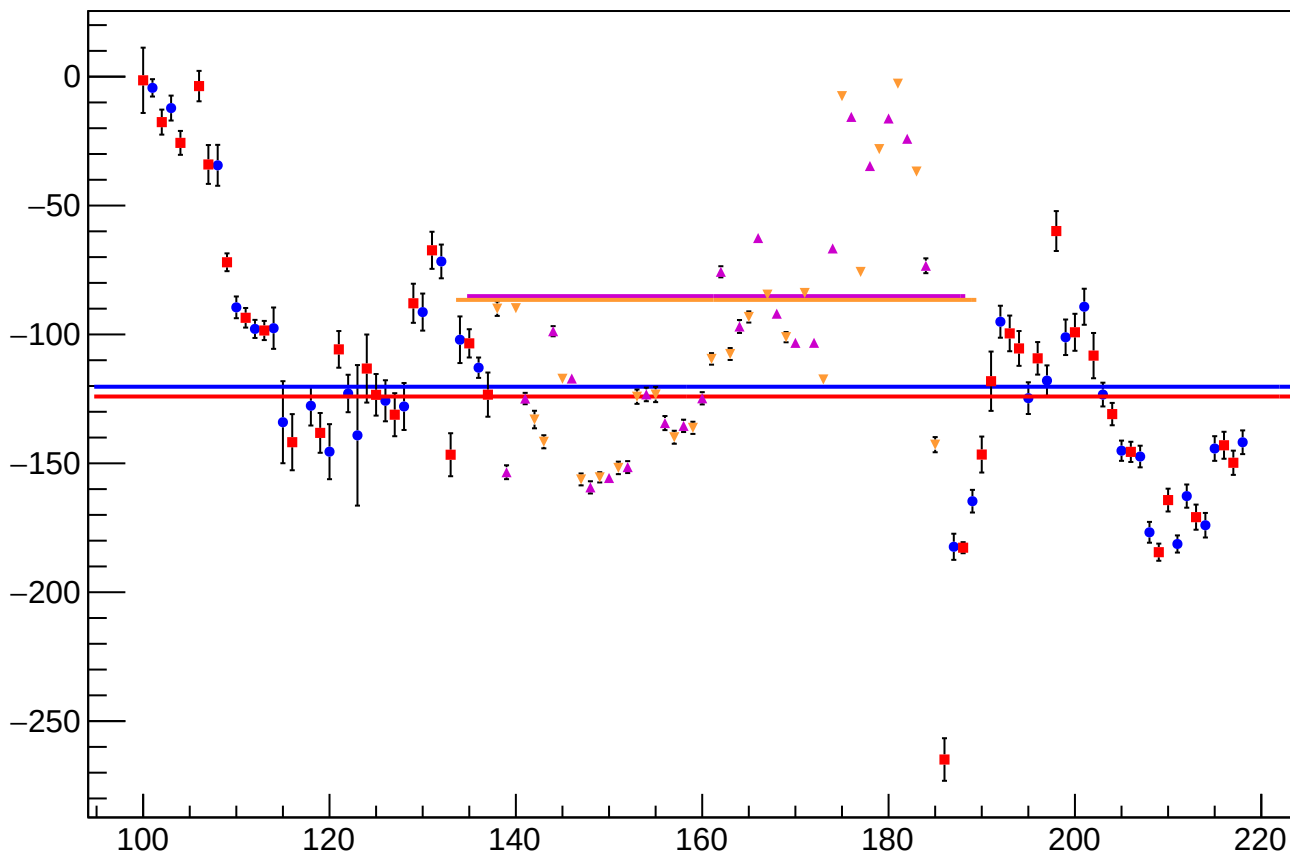
Right: 39.701+/-0.522 χ^2/NDF : 5860.7/68

In: 35.593+/-0.301 χ^2/NDF : 7524.0/55

Out: 35.163+/-0.294 χ^2/NDF : 9328.5/60

All: 35.373+/-0.210 χ^2/NDF : 16853.5/116

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -120.283 ± 0.907 χ^2/NDF : 3164.6/32

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -124.077 ± 0.875 χ^2/NDF : 3783.7/35

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

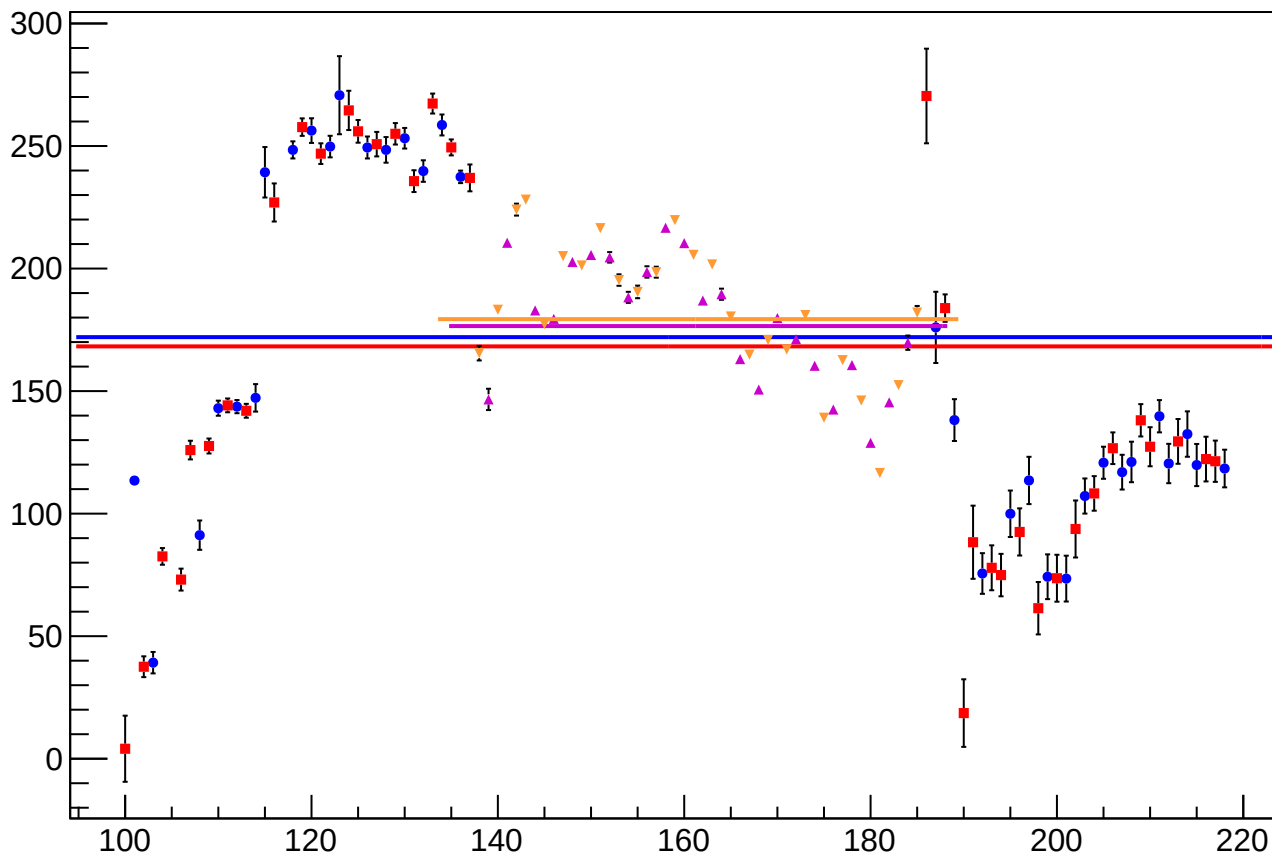
Right: -122.249 ± 0.630 χ^2/NDF : 6957.3/68

In: -91.214 ± 0.377 χ^2/NDF : 17246.7/55

Out: -93.302 ± 0.370 χ^2/NDF : 19806.2/60

All: -92.279 ± 0.264 χ^2/NDF : 37068.5/116

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 172.019 ± 0.840 χ^2/NDF : 6354.1/32

Left Out: 179.359 ± 0.362 χ^2/NDF : 5982.2/24

Right Out: 168.244 ± 0.846 χ^2/NDF : 7376.3/35

Left In: 176.531 ± 0.371 χ^2/NDF : 4426.0/22

Left: 177.980 ± 0.259 χ^2/NDF : 10438.0/47

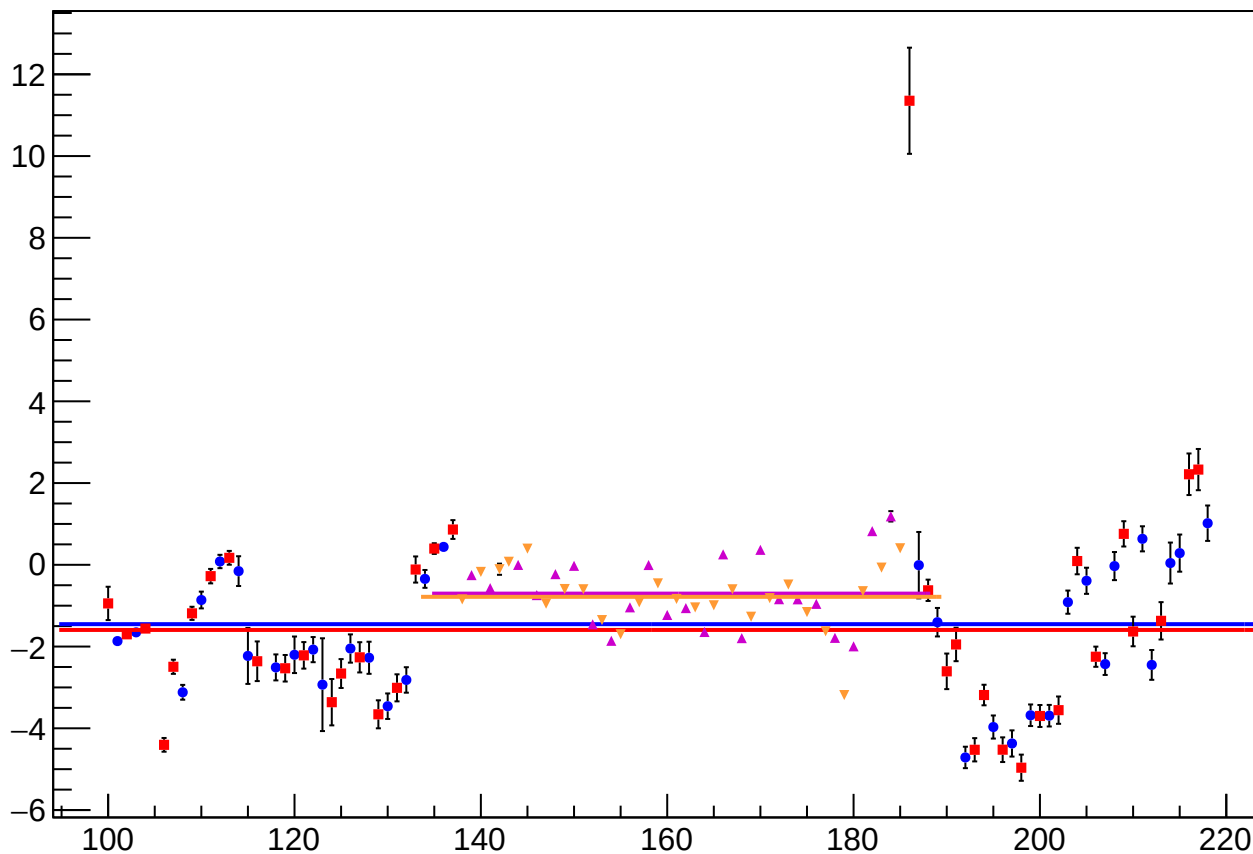
Right: 170.145 ± 0.596 χ^2/NDF : 13740.5/68

In: 175.795 ± 0.339 χ^2/NDF : 10804.3/55

Out: 177.640 ± 0.333 χ^2/NDF : 13504.4/60

All: 176.736 ± 0.238 χ^2/NDF : 24323.8/116

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.452 ± 0.041 χ^2/NDF : 1267.3/32

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.594 ± 0.040 χ^2/NDF : 1714.5/35

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

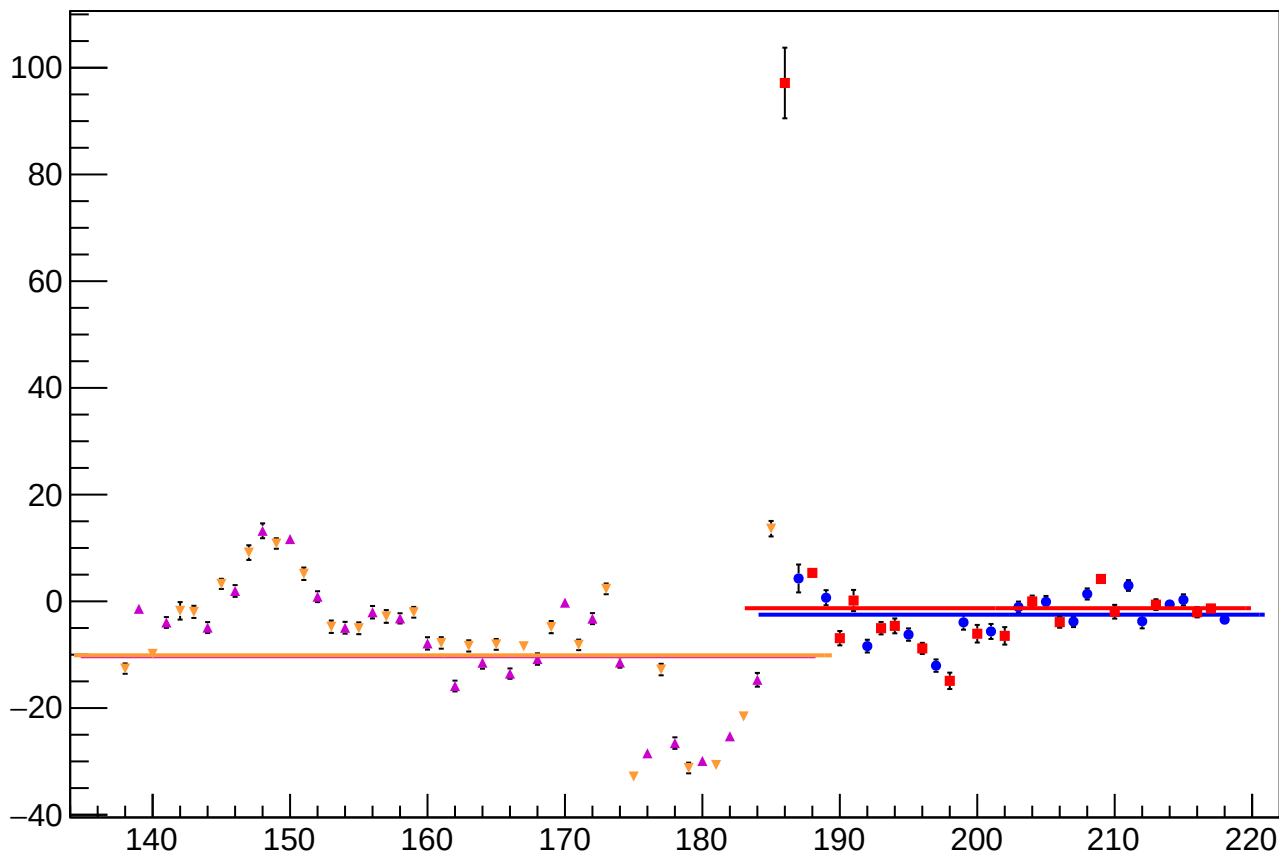
Right: -1.526 ± 0.029 χ^2/NDF : 2987.9/68

In: -0.812 ± 0.016 χ^2/NDF : 3953.9/55

Out: -0.903 ± 0.015 χ^2/NDF : 3838.6/60

All: -0.858 ± 0.011 χ^2/NDF : 7810.1/116

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.502 ± 0.283 χ^2/NDF : 185.0/15

Left Out: -10.117 ± 0.201 χ^2/NDF : 4138.1/24

Right Out: -1.289 ± 0.272 χ^2/NDF : 559.2/16

Left In: -10.290 ± 0.205 χ^2/NDF : 3451.0/22

Left: -10.202 ± 0.144 χ^2/NDF : 7589.5/47

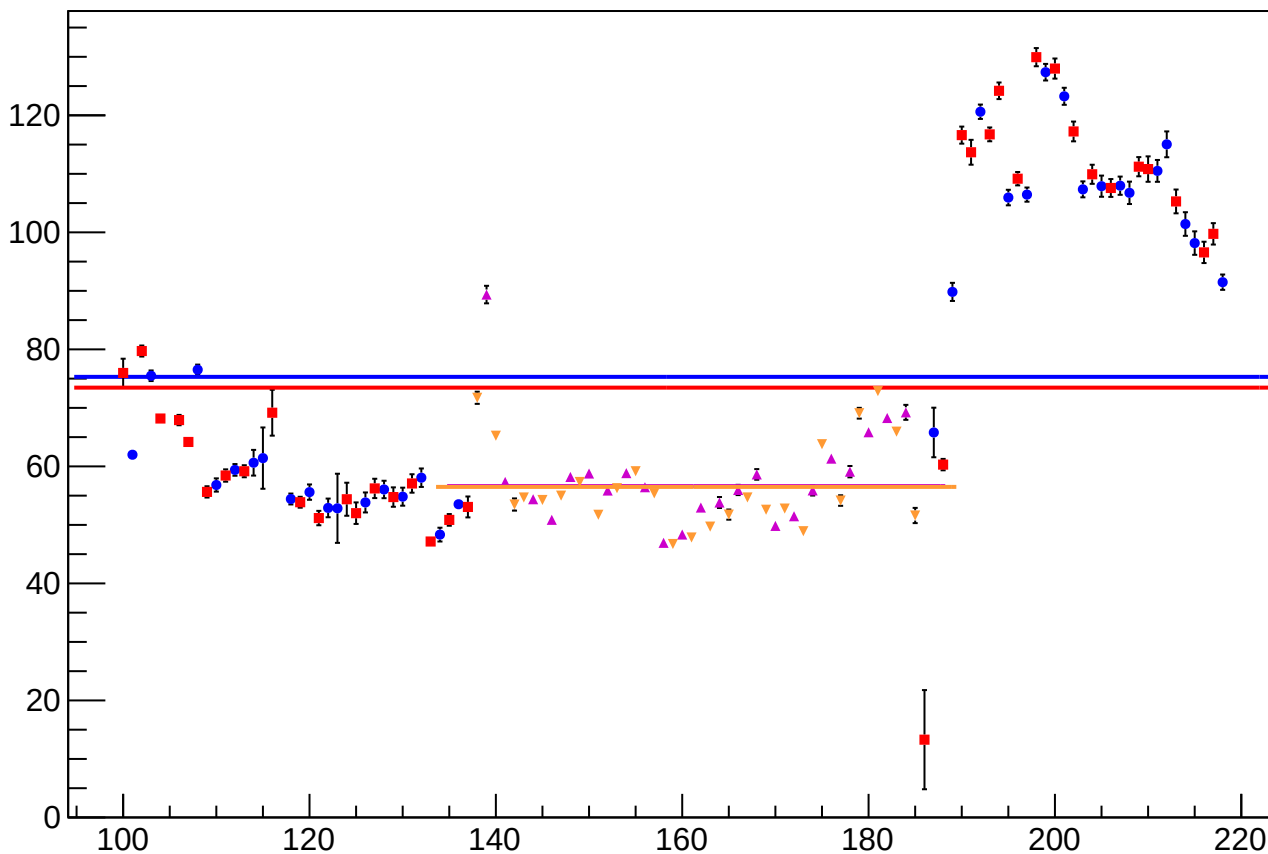
Right: -1.872 ± 0.196 χ^2/NDF : 753.8/32

In: -7.598 ± 0.166 χ^2/NDF : 4132.8/38

Out: -6.991 ± 0.162 χ^2/NDF : 5377.6/41

All: -7.287 ± 0.116 χ^2/NDF : 9517.3/80

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 75.302+/-0.219 χ^2/NDF : 11829.5/32

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 73.460+/-0.207 χ^2/NDF : 15031.1/35

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

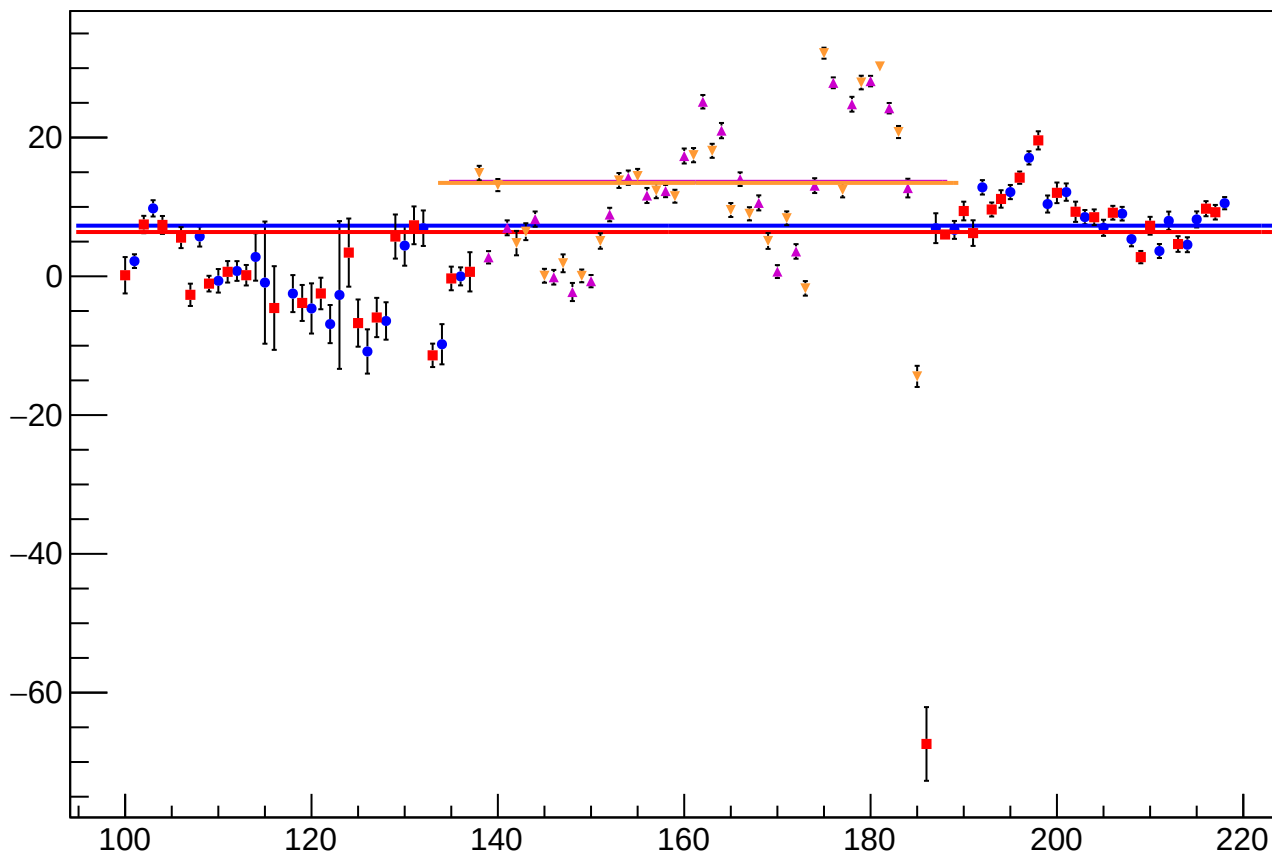
Right: 74.330+/-0.150 χ^2/NDF : 26898.1/68

In: 63.406+/-0.132 χ^2/NDF :18072.7/55

Out: 62.785+/-0.126 χ^2/NDF :21225.9/60

All: 63.081+/-0.091 χ^2/NDF : 39310.2/116

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.299 ± 0.236 χ^2/NDF : 474.0/32

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.382 ± 0.220 χ^2/NDF : 782.2/35

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

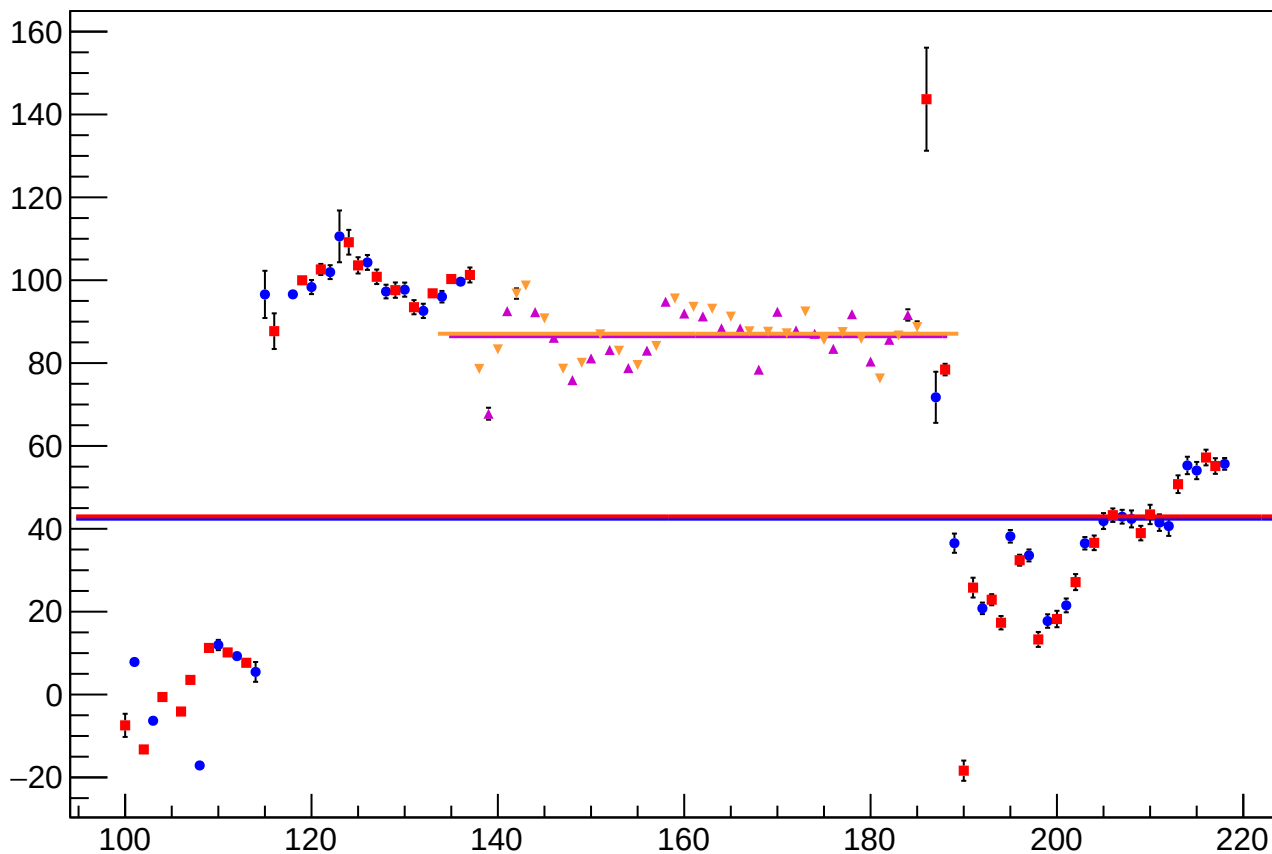
Right: 6.807 ± 0.161 χ^2/NDF : 1264.3/68

In: 10.913 ± 0.155 χ^2/NDF : 3198.7/55

Out: 10.226 ± 0.148 χ^2/NDF : 4082.9/60

All: 10.556 ± 0.107 χ^2/NDF : 7291.9/116

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.448 $\pm$ 0.251 χ^2 /NDF: 25636.9/32

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 42.992 $\pm$ 0.242 χ^2 /NDF: 30877.1/35

Left In: 86.482 $\pm$ 0.185 χ^2 /NDF:1003.2/22

Left: 86.794 $\pm$ 0.129 χ^2 /NDF: 2094.5/47

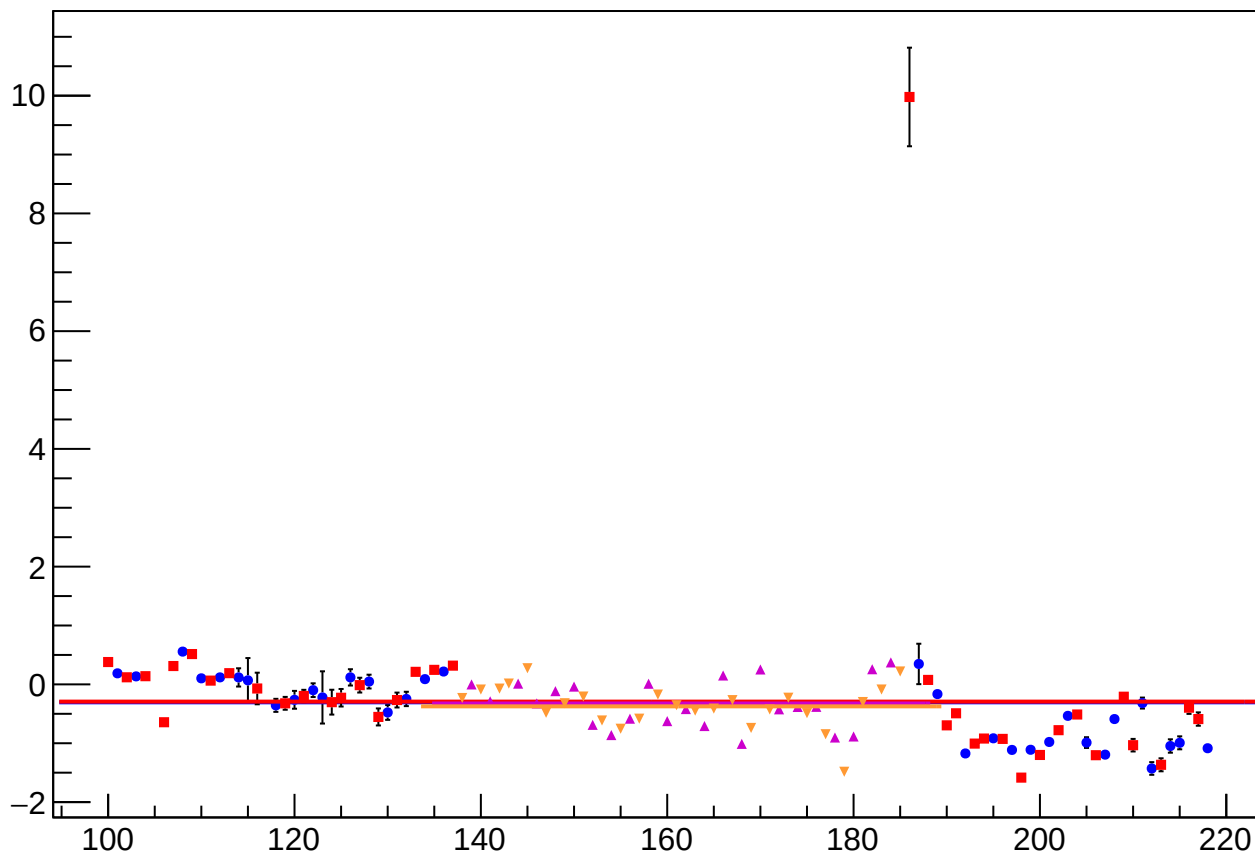
Right: 42.730 $\pm$ 0.174 χ^2 /NDF: 56516.5/68

In: 71.055 $\pm$ 0.149 χ^2 /NDF:46571.9/55

Out: 71.472 $\pm$ 0.144 χ^2 /NDF:53433.5/60

All: 71.270 $\pm$ 0.103 χ^2 /NDF: 100009.4/116

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.305 ± 0.011 χ^2/NDF : 3496.2/32

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.293 ± 0.010 χ^2/NDF : 3711.7/35

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

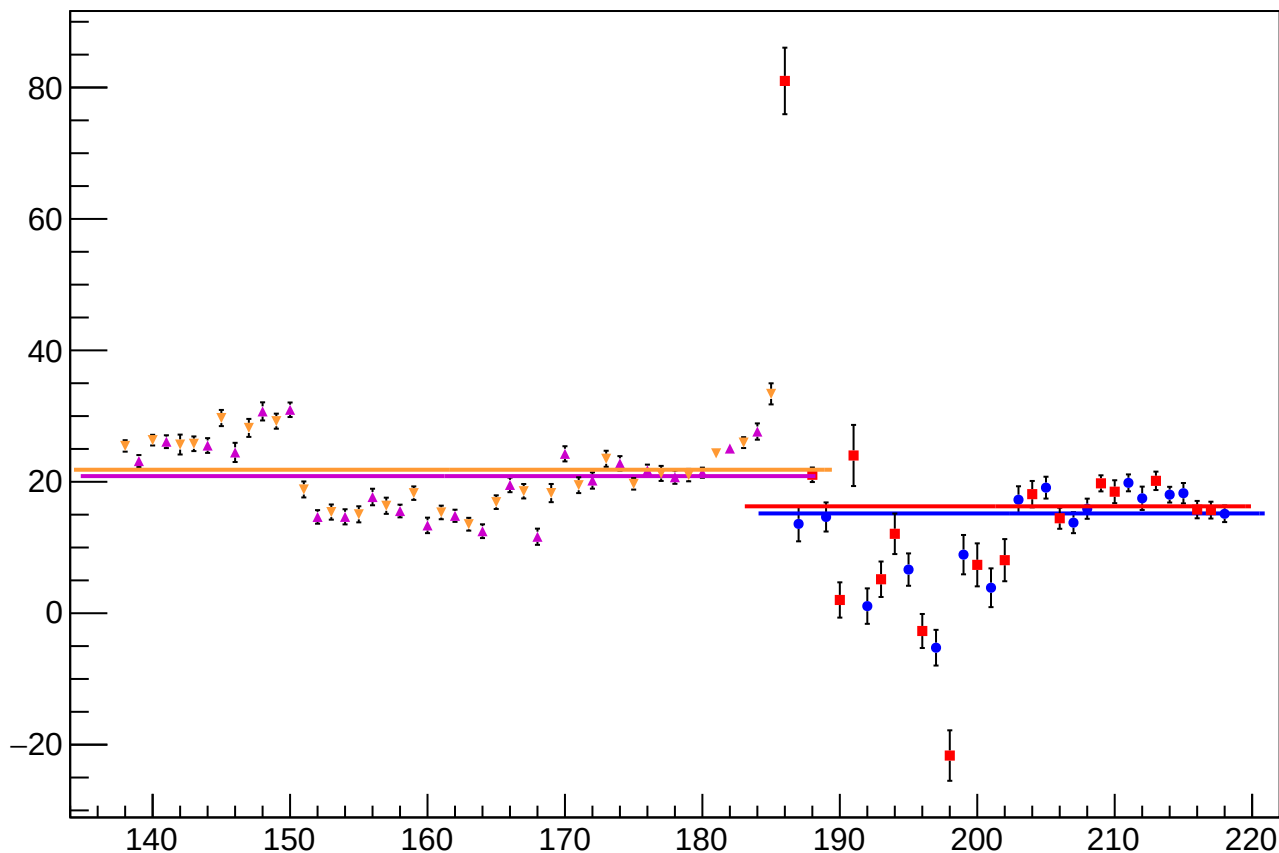
Right: -0.299 ± 0.007 χ^2/NDF : 7208.6/68

In: -0.317 ± 0.006 χ^2/NDF : 5782.6/55

Out: -0.341 ± 0.006 χ^2/NDF : 5419.6/60

All: -0.330 ± 0.005 χ^2/NDF : 11209.0/116

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 15.186 $\pm$ 0.443 χ^2 /NDF: 147.4/15

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF:524.3/24

Right Out: 16.268 $\pm$ 0.446 χ^2 /NDF: 417.1/16

Left In: 20.866 $\pm$ 0.217 χ^2 /NDF:576.9/22

Left: 21.366 $\pm$ 0.151 χ^2 /NDF: 1111.6/47

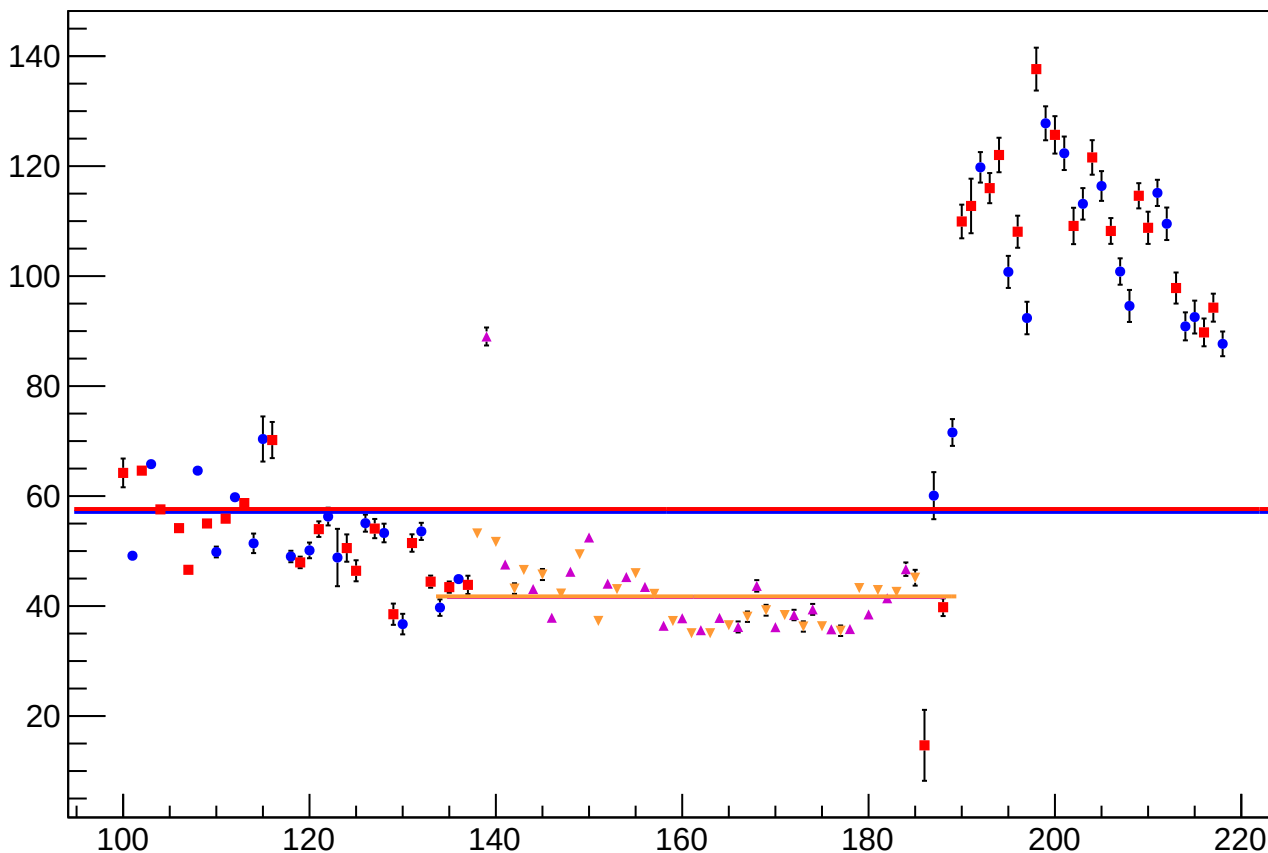
Right: 15.723 $\pm$ 0.314 χ^2 /NDF: 567.5/32

In: 19.770 $\pm$ 0.195 χ^2 /NDF:856.9/38

Out: 20.829 $\pm$ 0.190 χ^2 /NDF:1068.8/41

All: 20.313 $\pm$ 0.136 χ^2 /NDF: 1940.9/80

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 57.126 $\pm$ 0.202 χ^2 /NDF: 6245.2/32

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 57.645 $\pm$ 0.215 χ^2 /NDF: 6433.5/35

Left In: 41.643 $\pm$ 0.174 χ^2 /NDF:1611.0/22

Left: 41.703 $\pm$ 0.120 χ^2 /NDF: 2626.9/47

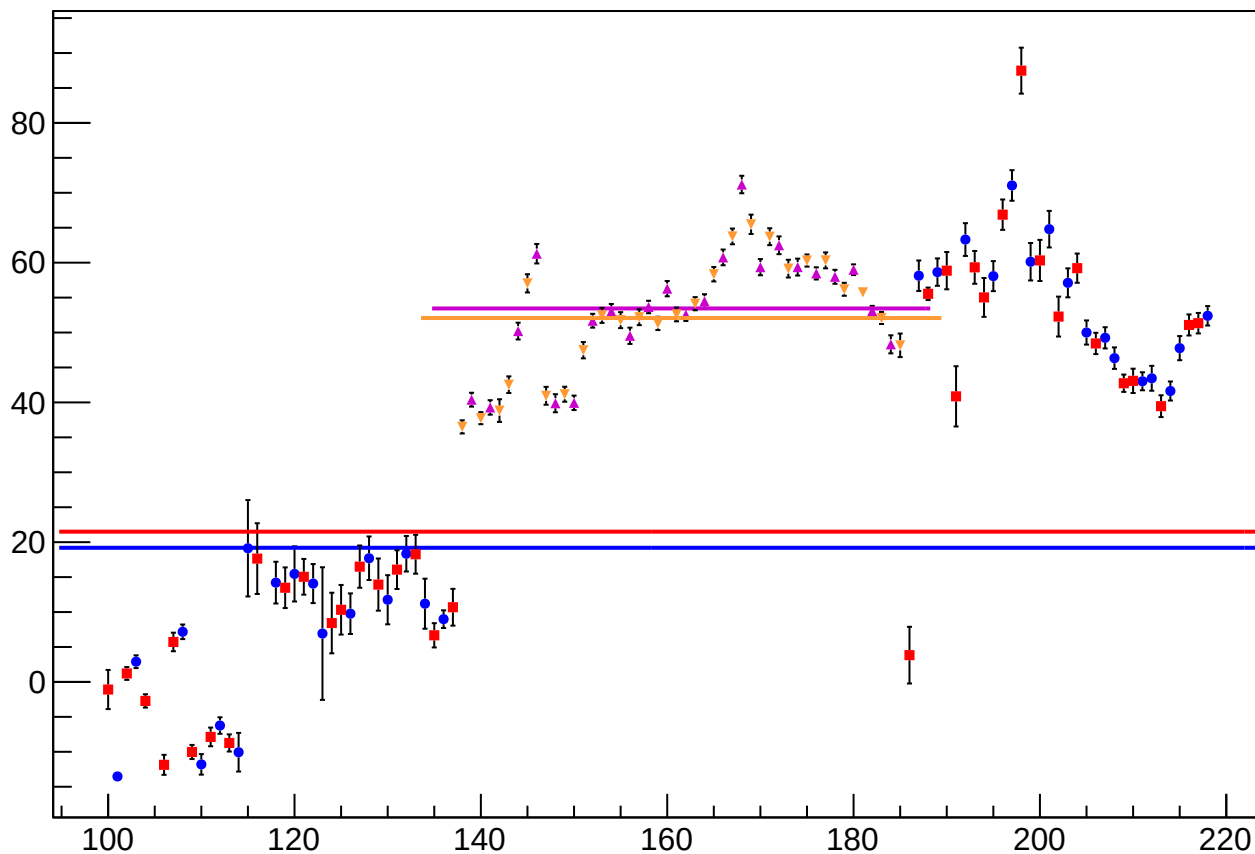
Right: 57.369 $\pm$ 0.147 χ^2 /NDF: 12681.8/68

In: 48.235 $\pm$ 0.132 χ^2 /NDF:11236.0/55

Out: 47.660 $\pm$ 0.131 χ^2 /NDF:10879.0/60

All: 47.946 $\pm$ 0.093 χ^2 /NDF: 22124.6/116

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.198 $\pm$ 0.282 χ^2 /NDF: 9839.6/32

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 21.504 $\pm$ 0.285 χ^2 /NDF: 9320.5/35

Left In: 53.447 $\pm$ 0.215 χ^2 /NDF:1169.0/22

Left: 52.744 $\pm$ 0.150 χ^2 /NDF: 2640.6/47

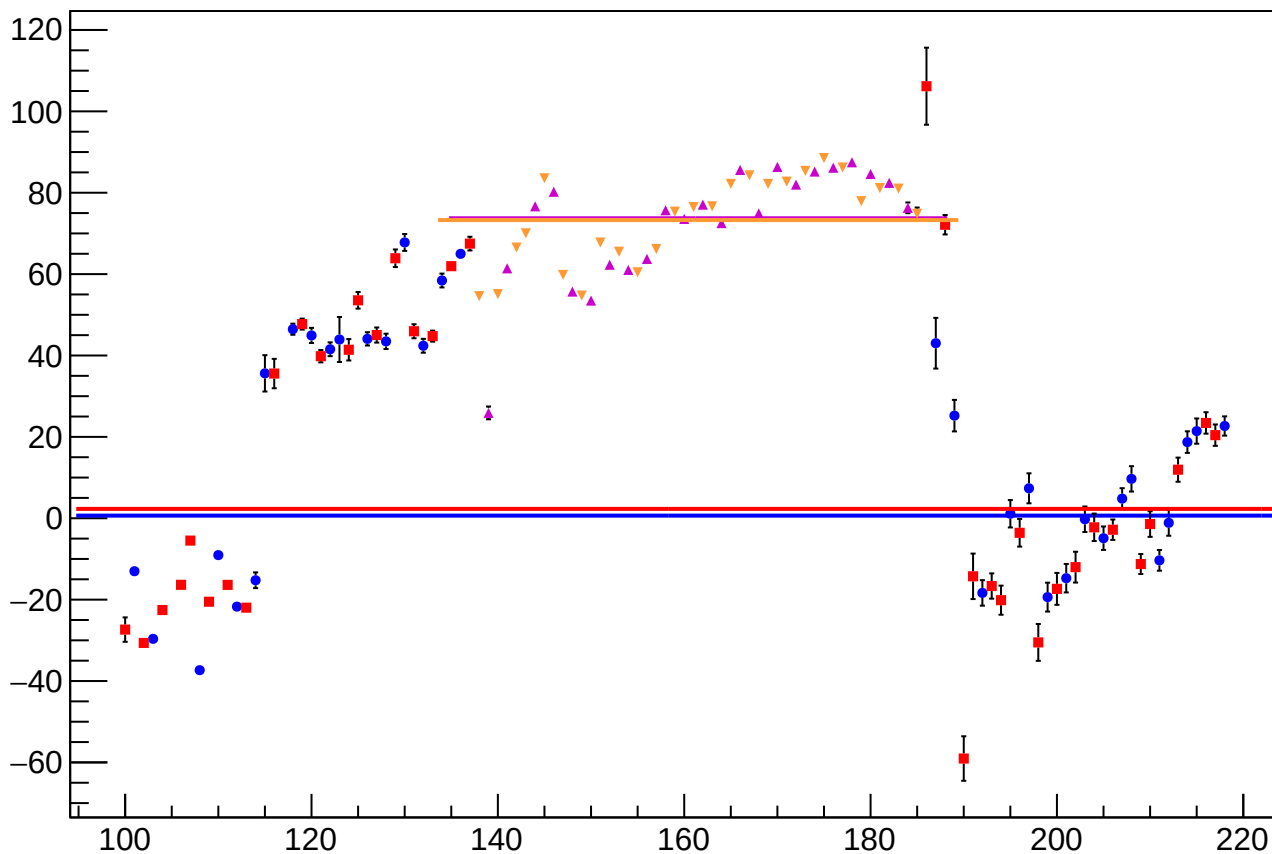
Right: 20.339 $\pm$ 0.200 χ^2 /NDF: 19193.3/68

In: 40.806 $\pm$ 0.171 χ^2 /NDF:20344.1/55

Out: 41.297 $\pm$ 0.169 χ^2 /NDF:18243.4/60

All: 41.055 $\pm$ 0.120 χ^2 /NDF: 38591.7/116

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.648+/-0.236 χ^2/NDF : 18611.7/32

Left Out: 73.284+/-0.187 χ^2/NDF : 3144.2/24

Right Out: 2.303+/-0.253 χ^2/NDF : 16860.8/35

Left In: 73.730+/-0.194 χ^2/NDF : 3775.8/22

Left: 73.498+/-0.135 χ^2/NDF : 6922.7/47

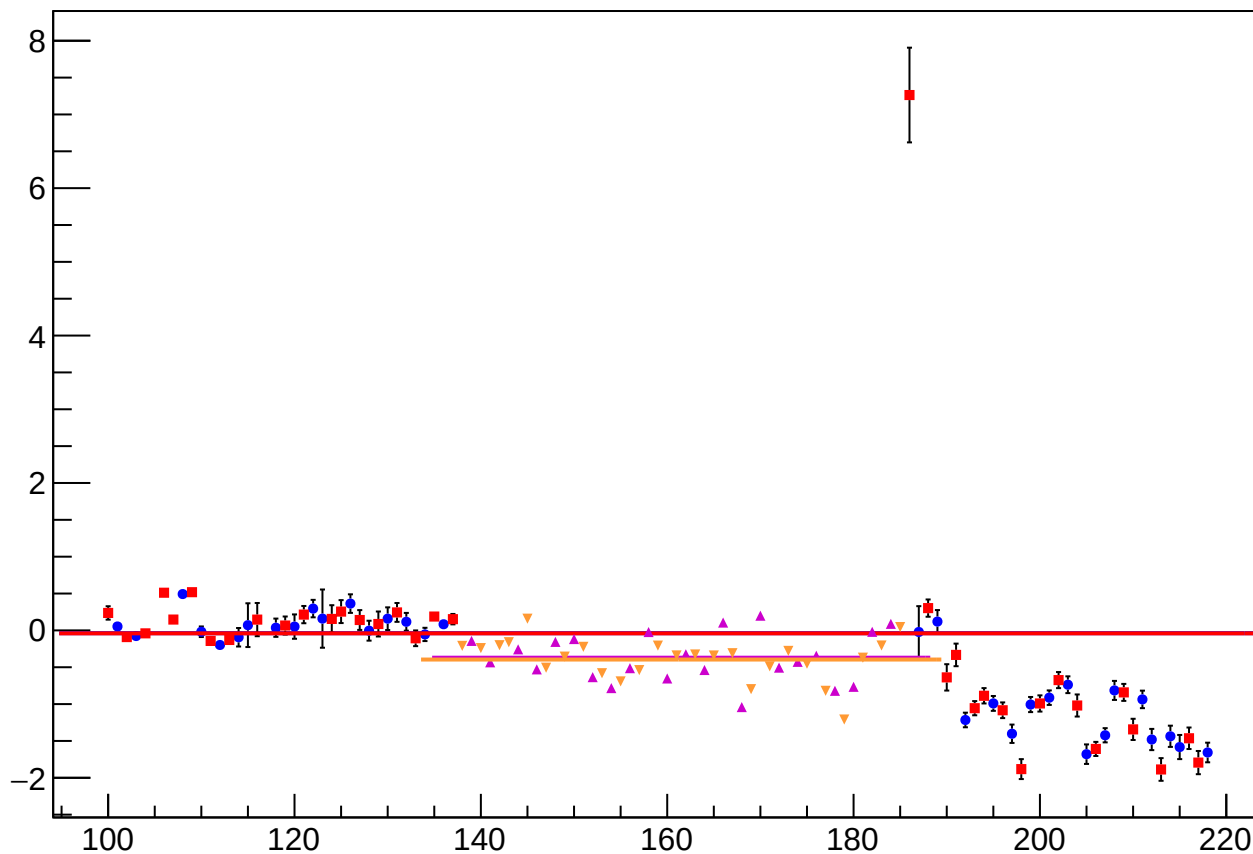
Right: 1.419+/-0.172 χ^2/NDF : 35495.5/68

In: 44.176+/-0.150 χ^2/NDF : 79578.2/55

Out: 48.182+/-0.150 χ^2/NDF : 71040.3/60

All: 46.176+/-0.106 χ^2/NDF : 150974.7/116

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.038 ± 0.010 χ^2/NDF : 2009.4/32

Left Out: -0.396 ± 0.009 χ^2/NDF : 950.0/24

Right Out: -0.040 ± 0.010 χ^2/NDF : 2050.4/35

Left In: -0.371 ± 0.009 χ^2/NDF : 1313.7/22

Left: -0.383 ± 0.006 χ^2/NDF : 2268.0/47

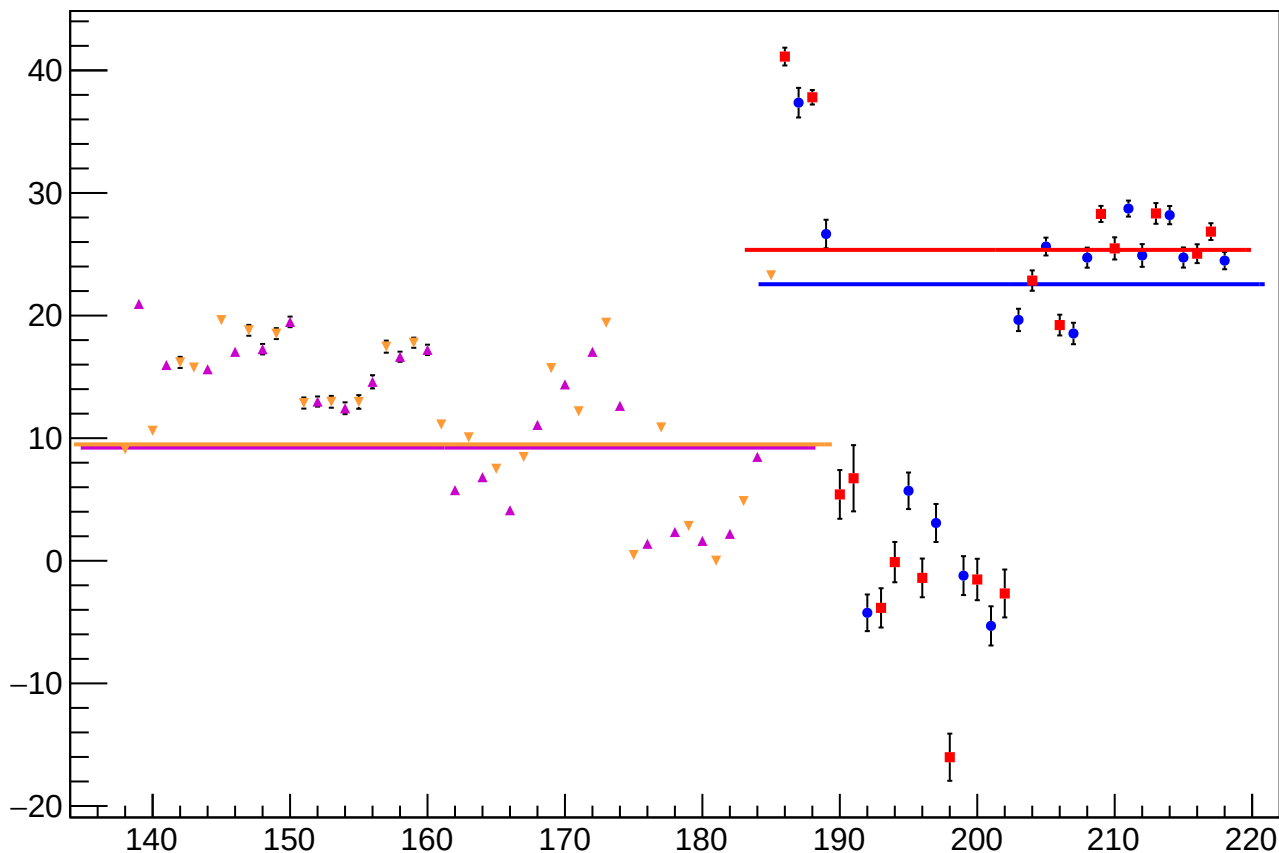
Right: -0.039 ± 0.007 χ^2/NDF : 4059.8/68

In: -0.233 ± 0.007 χ^2/NDF : 3926.2/55

Out: -0.252 ± 0.007 χ^2/NDF : 3700.2/60

All: -0.243 ± 0.005 χ^2/NDF : 7630.3/116

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 22.558 $\pm$ 0.234 χ^2 /NDF: 1521.1/15

Left Out: 9.495 $\pm$ 0.061 χ^2 /NDF:12609.1/24

Right Out: 25.359 $\pm$ 0.231 χ^2 /NDF: 2942.9/16

Left In: 9.231 $\pm$ 0.063 χ^2 /NDF:10736.2/22

Left: 9.367 $\pm$ 0.044 χ^2 /NDF: 23354.3/47

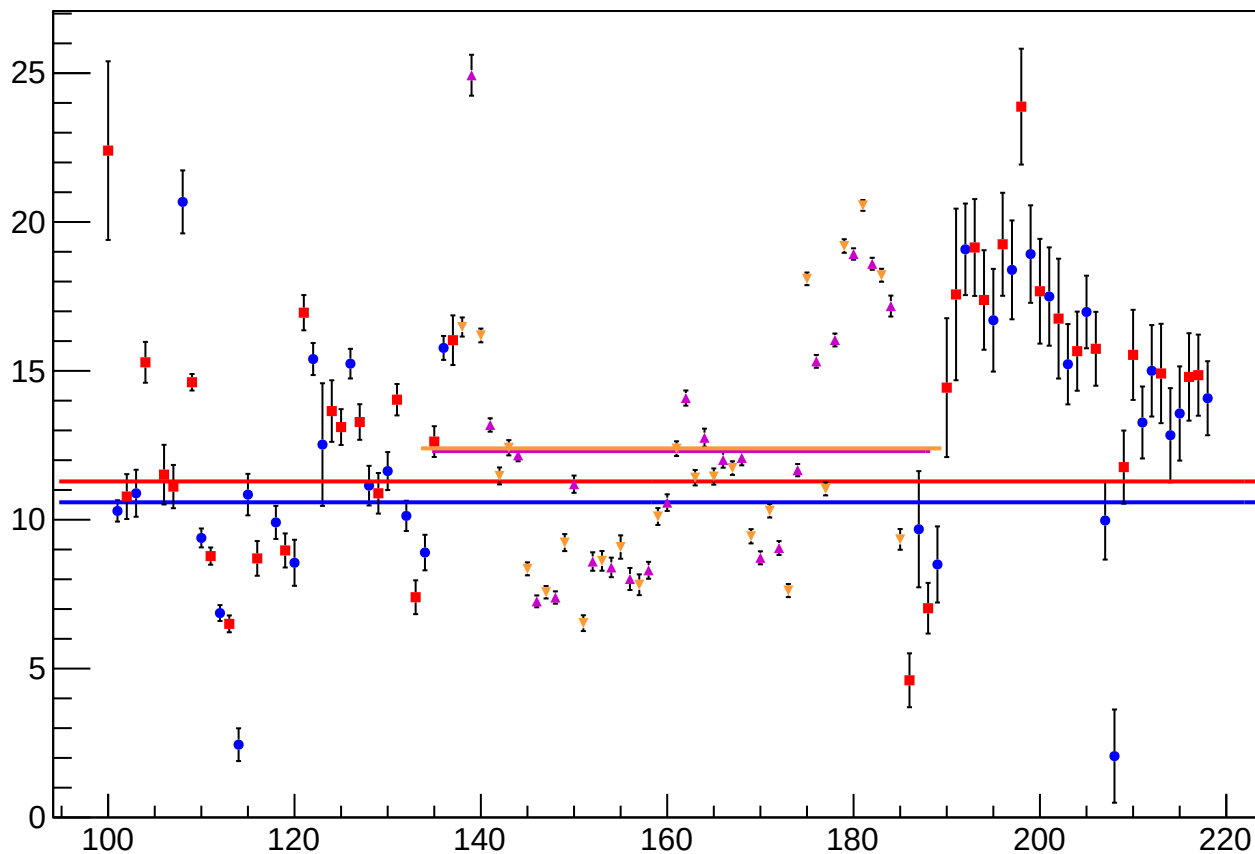
Right: 23.980 $\pm$ 0.164 χ^2 /NDF: 4536.7/32

In: 10.131 $\pm$ 0.061 χ^2 /NDF:15275.6/38

Out: 10.540 $\pm$ 0.059 χ^2 /NDF:19974.0/41

All: 10.341 $\pm$ 0.042 χ^2 /NDF: 35272.8/80

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.585 $\pm$ 0.114 χ^2 /NDF: 1081.5/32

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.286 $\pm$ 0.110 χ^2 /NDF: 1074.8/35

Left In: 12.307 $\pm$ 0.051 χ^2 /NDF: 5601.8/22

Left: 12.353 $\pm$ 0.036 χ^2 /NDF: 13146.3/47

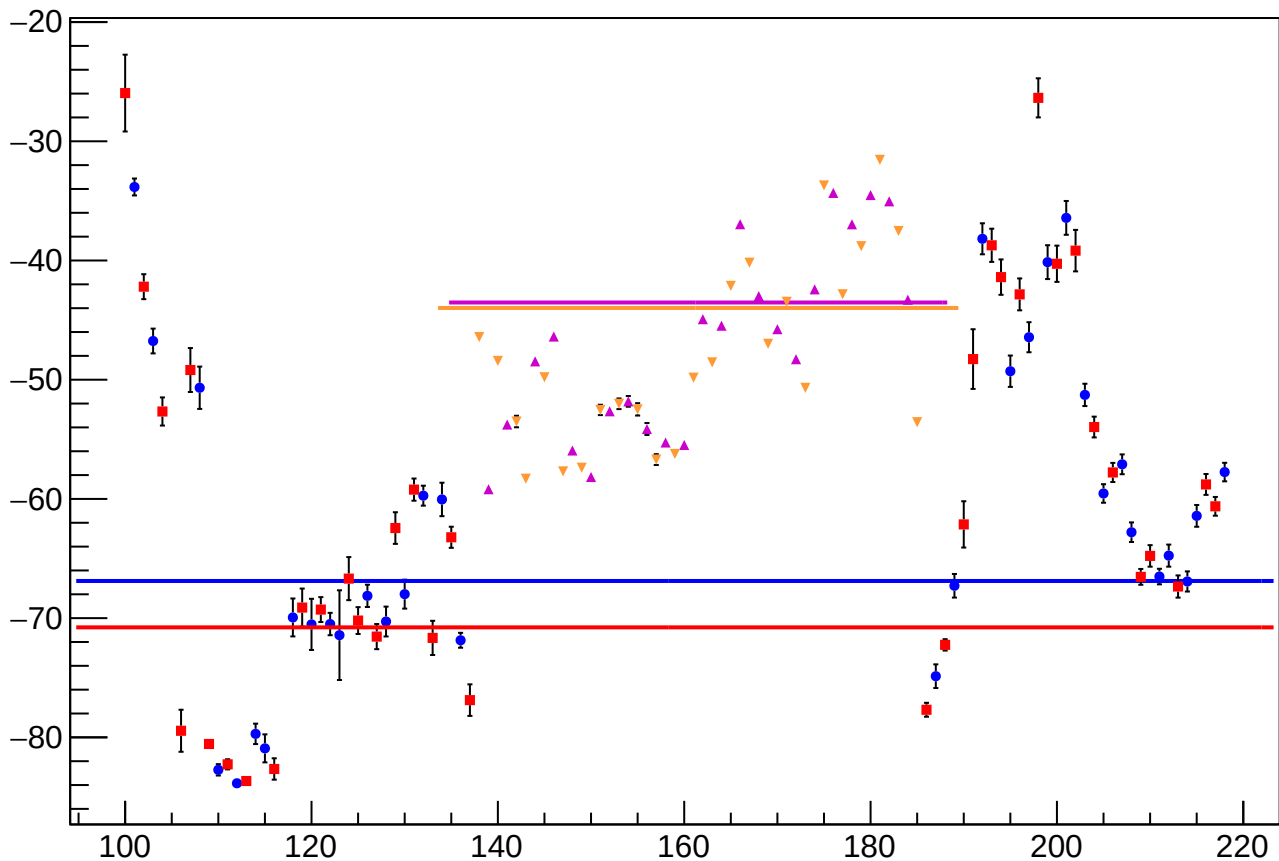
Right: 10.946 $\pm$ 0.079 χ^2 /NDF: 2175.9/68

In: 12.017 $\pm$ 0.047 χ^2 /NDF: 6873.9/55

Out: 12.210 $\pm$ 0.045 χ^2 /NDF: 8701.9/60

All: 12.116 $\pm$ 0.033 χ^2 /NDF: 15584.6/116

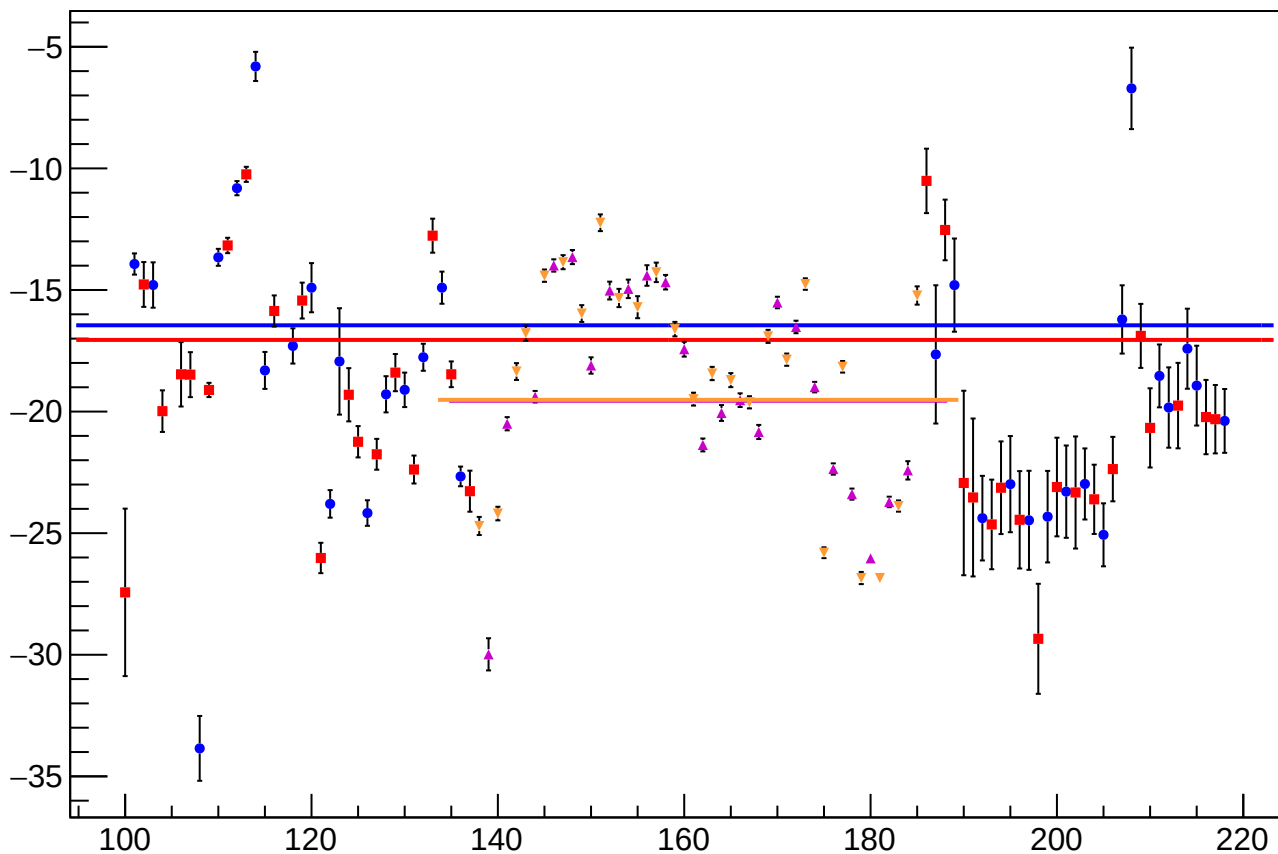
reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.883 ± 0.151 $\chi^2/\text{NDF}: 8801.2/32$
 Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$
 Right Out: -70.773 ± 0.140 $\chi^2/\text{NDF}: 8459.2/35$
 Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$
 Right: -68.983 ± 0.103 $\chi^2/\text{NDF}: 17617.6/68$
 In: -47.006 ± 0.058 $\chi^2/\text{NDF}: 44361.7/55$
 Out: -48.388 ± 0.057 $\chi^2/\text{NDF}: 56968.5/60$
 All: -47.719 ± 0.041 $\chi^2/\text{NDF}: 101618.5/116$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.452 ± 0.126 $\chi^2/\text{NDF}: 1823.2/32$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -17.053 ± 0.122 $\chi^2/\text{NDF}: 1400.5/35$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

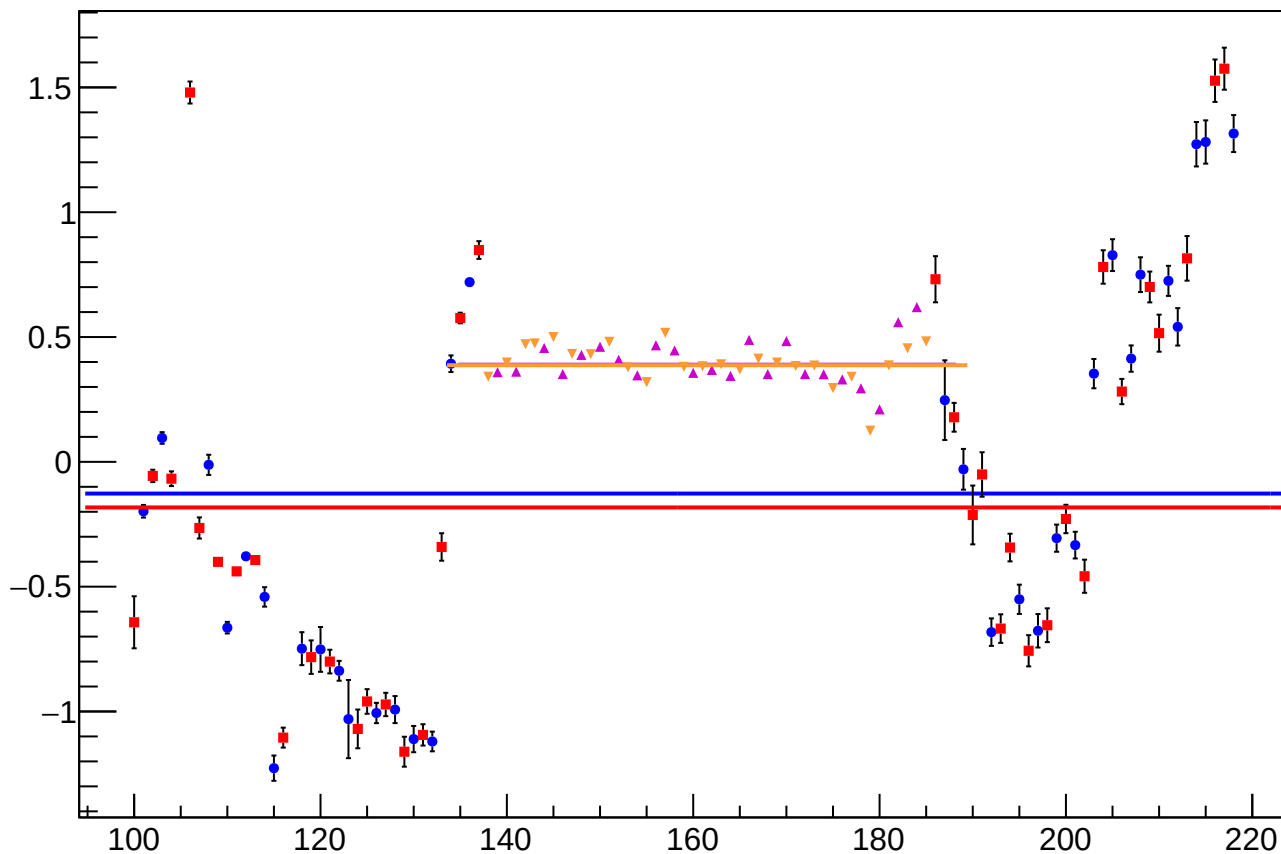
Right: -16.762 ± 0.088 $\chi^2/\text{NDF}: 3235.4/68$

In: -19.025 ± 0.052 $\chi^2/\text{NDF}: 6634.7/55$

Out: -19.093 ± 0.051 $\chi^2/\text{NDF}: 8254.8/60$

All: -19.060 ± 0.036 $\chi^2/\text{NDF}: 14890.4/116$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.127 ± 0.007 χ^2/NDF : 8375.9/32

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.183 ± 0.007 χ^2/NDF : 8154.8/35

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

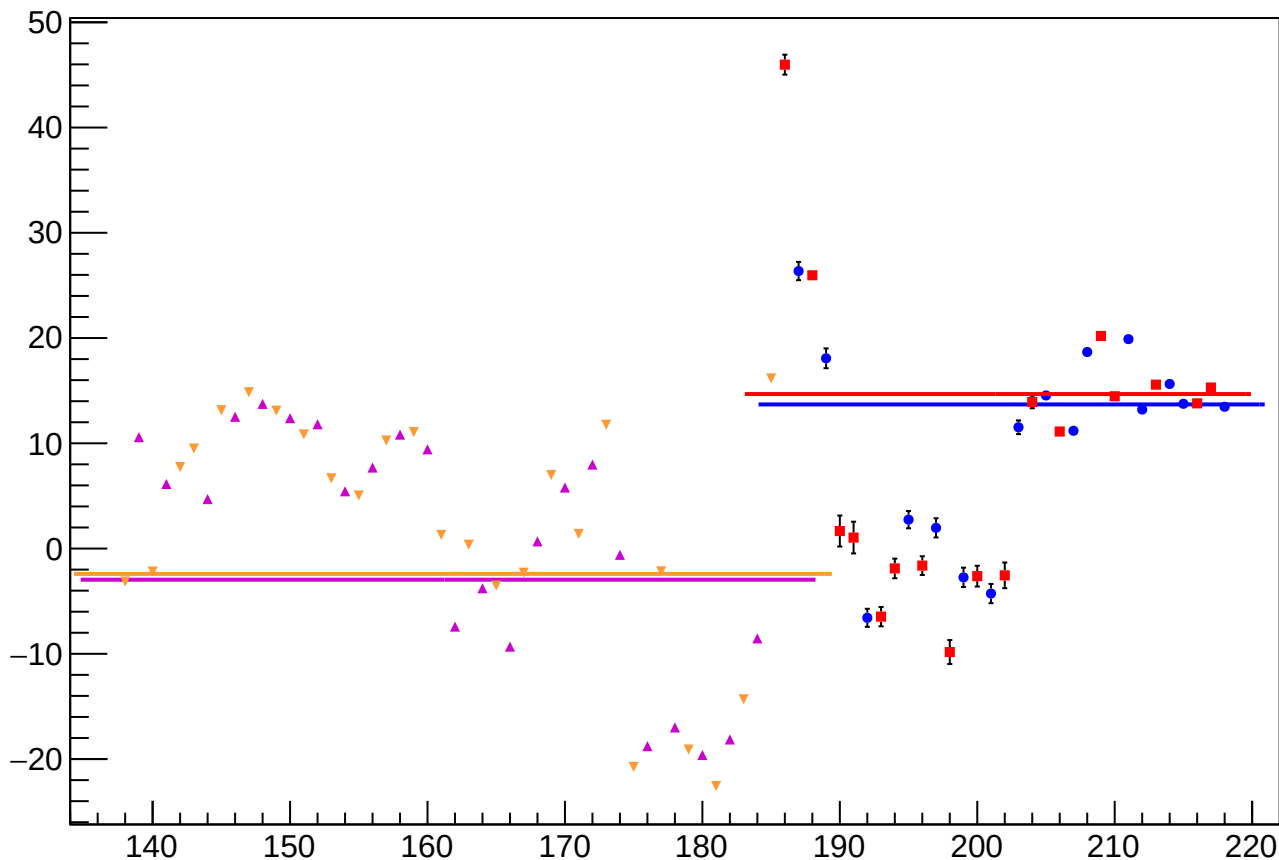
Right: -0.156 ± 0.005 χ^2/NDF : 16564.9/68

In: 0.324 ± 0.002 χ^2/NDF : 14569.9/55

Out: 0.312 ± 0.002 χ^2/NDF : 15661.8/60

All: 0.318 ± 0.002 χ^2/NDF : 30242.5/116

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.693 ± 0.127 χ^2/NDF : 2374.8/15

Left Out: -2.407 ± 0.053 χ^2/NDF : 56368.5/24

Right Out: 14.679 ± 0.132 χ^2/NDF : 4439.8/16

Left In: -2.959 ± 0.055 χ^2/NDF : 45922.6/22

Left: -2.672 ± 0.038 χ^2/NDF : 102343.8/47

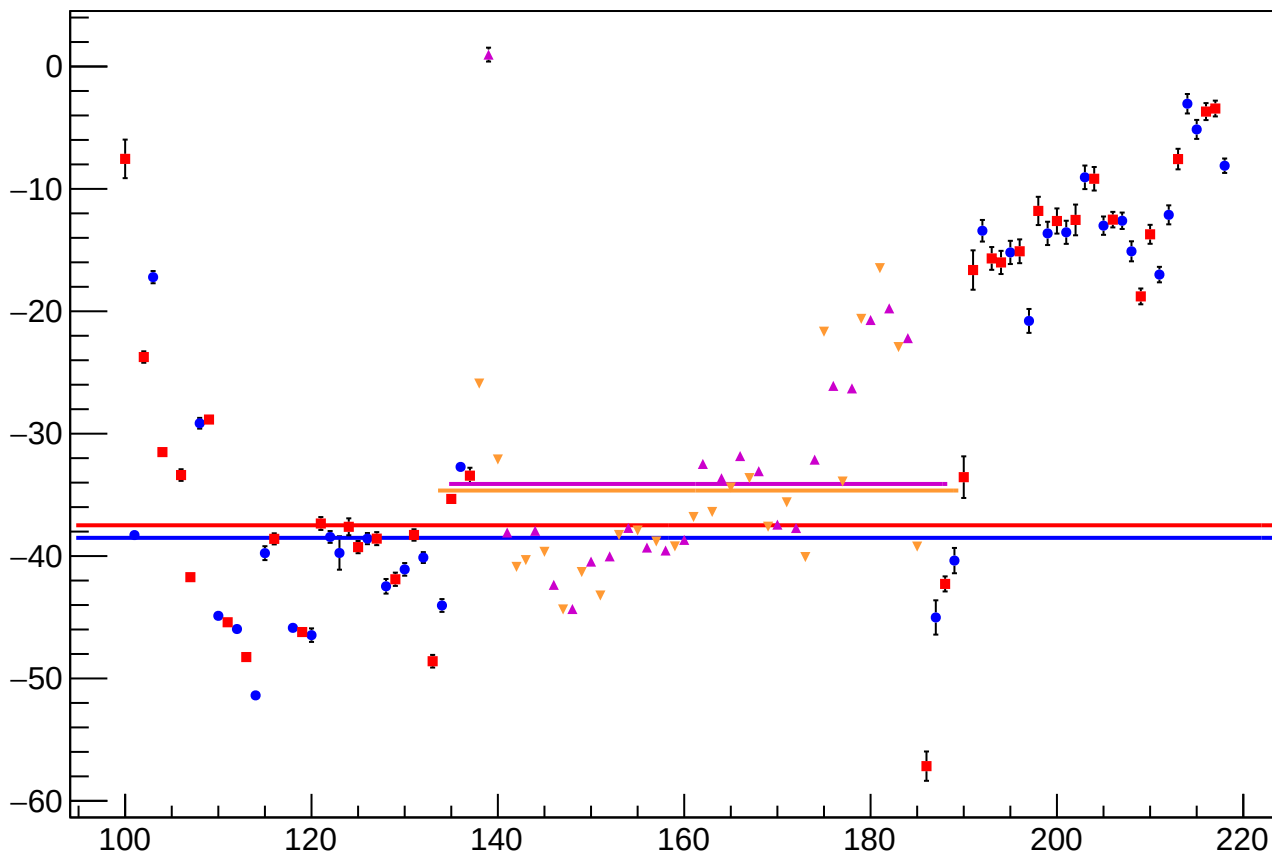
Right: 14.169 ± 0.092 χ^2/NDF : 6843.5/32

In: -0.353 ± 0.050 χ^2/NDF : 62719.4/38

Out: -0.053 ± 0.049 χ^2/NDF : 75249.3/41

All: -0.199 ± 0.035 χ^2/NDF : 137986.9/80

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -38.511 ± 0.073 χ^2/NDF : 25063.6/32

Left Out: -34.646 ± 0.042 χ^2/NDF : 34674.7/24

Right Out: -37.485 ± 0.069 χ^2/NDF : 26768.6/35

Left In: -34.108 ± 0.044 χ^2/NDF : 29052.8/22

Left: -34.390 ± 0.030 χ^2/NDF : 63806.0/47

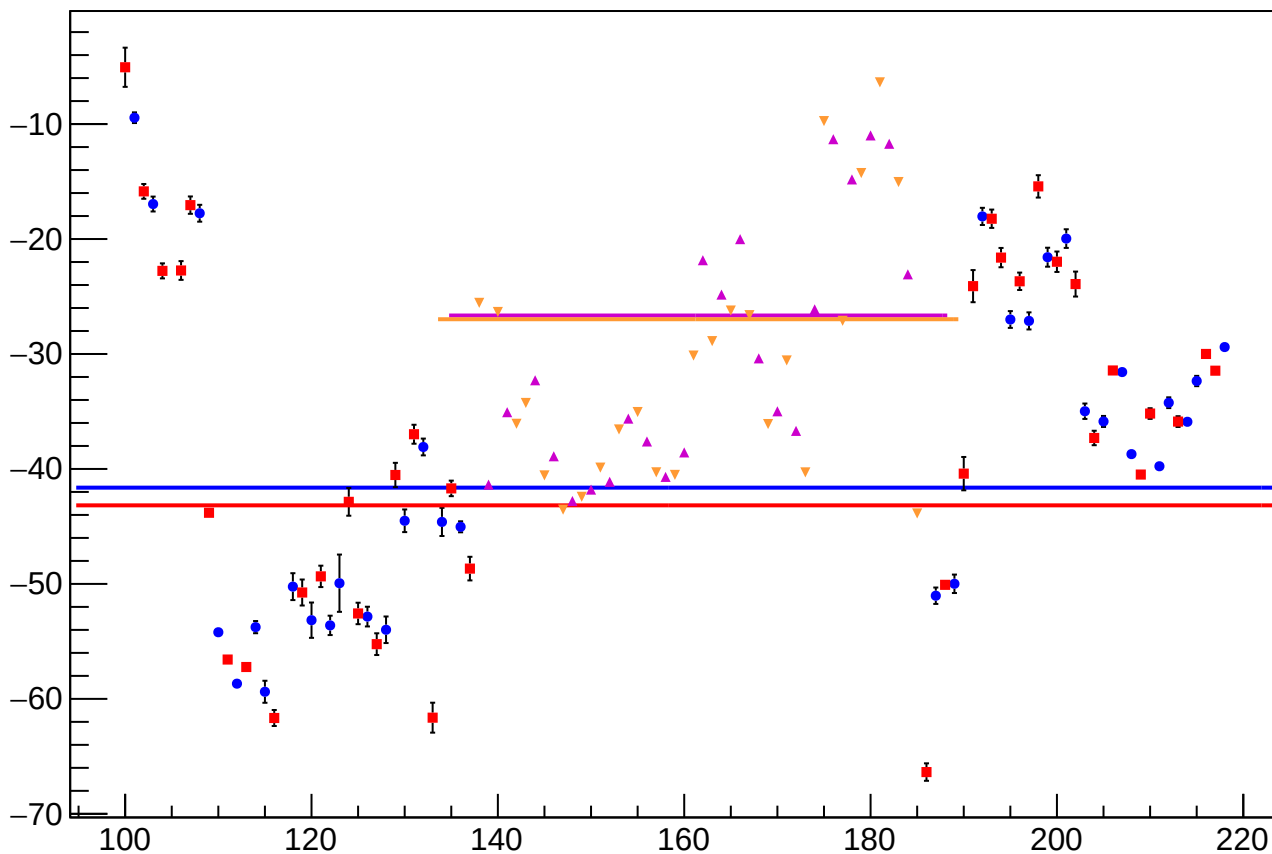
Right: -37.967 ± 0.050 χ^2/NDF : 51936.8/68

In: -35.280 ± 0.038 χ^2/NDF : 56785.8/55

Out: -35.412 ± 0.036 χ^2/NDF : 62690.4/60

All: -35.350 ± 0.026 χ^2/NDF : 119482.7/116

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -41.626 ± 0.090 $\chi^2/\text{NDF}: 24101.7/32$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -43.166 ± 0.083 $\chi^2/\text{NDF}: 22863.9/35$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

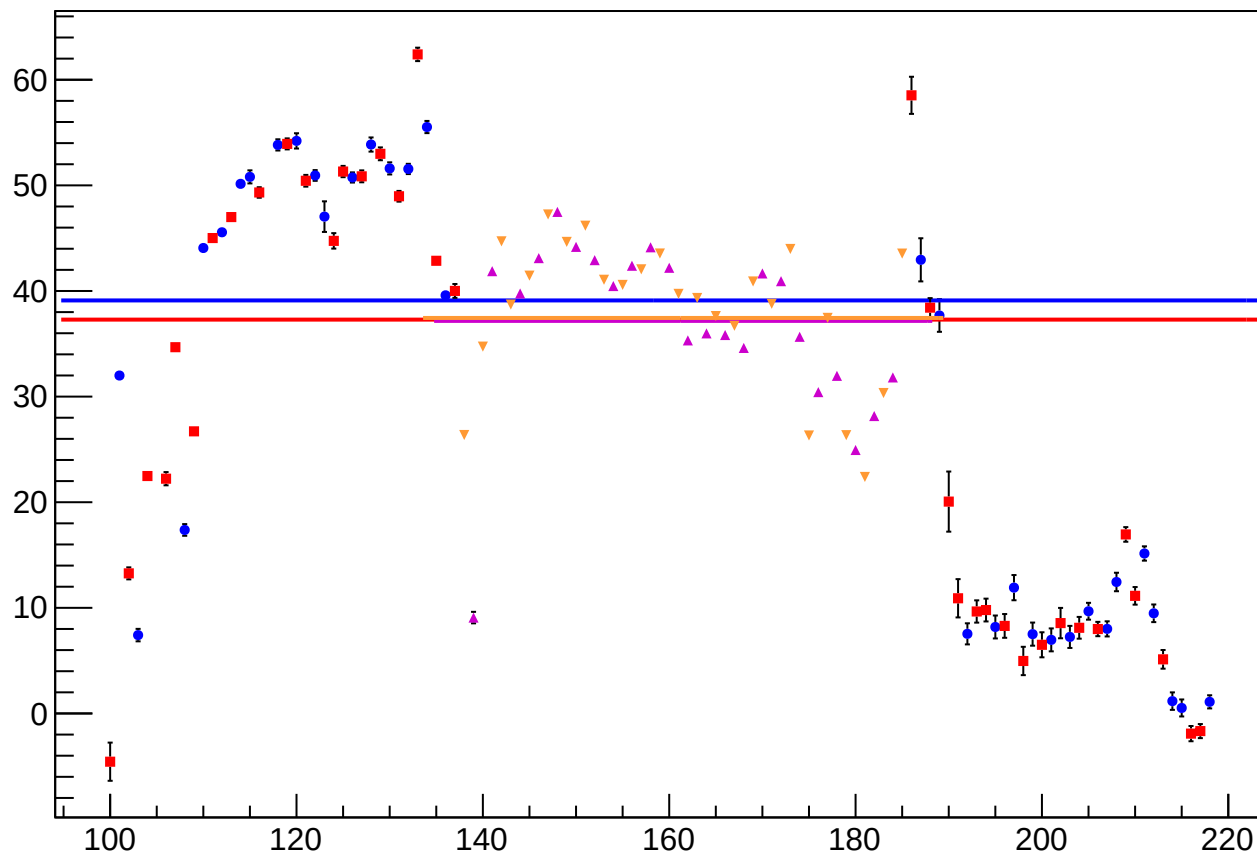
Right: -42.454 ± 0.061 $\chi^2/\text{NDF}: 47124.5/68$

In: -30.747 ± 0.047 $\chi^2/\text{NDF}: 86516.1/55$

Out: -31.683 ± 0.045 $\chi^2/\text{NDF}: 99148.9/60$

All: -31.236 ± 0.032 $\chi^2/\text{NDF}: 185873.5/116$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 39.106 $\pm$ 0.081 χ^2 /NDF: 33150.4/32

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 37.290 $\pm$ 0.076 χ^2 /NDF: 35466.3/35

Left In: 37.169 $\pm$ 0.049 χ^2 /NDF:17236.9/22

Left: 37.314 $\pm$ 0.034 χ^2 /NDF: 38824.1/47

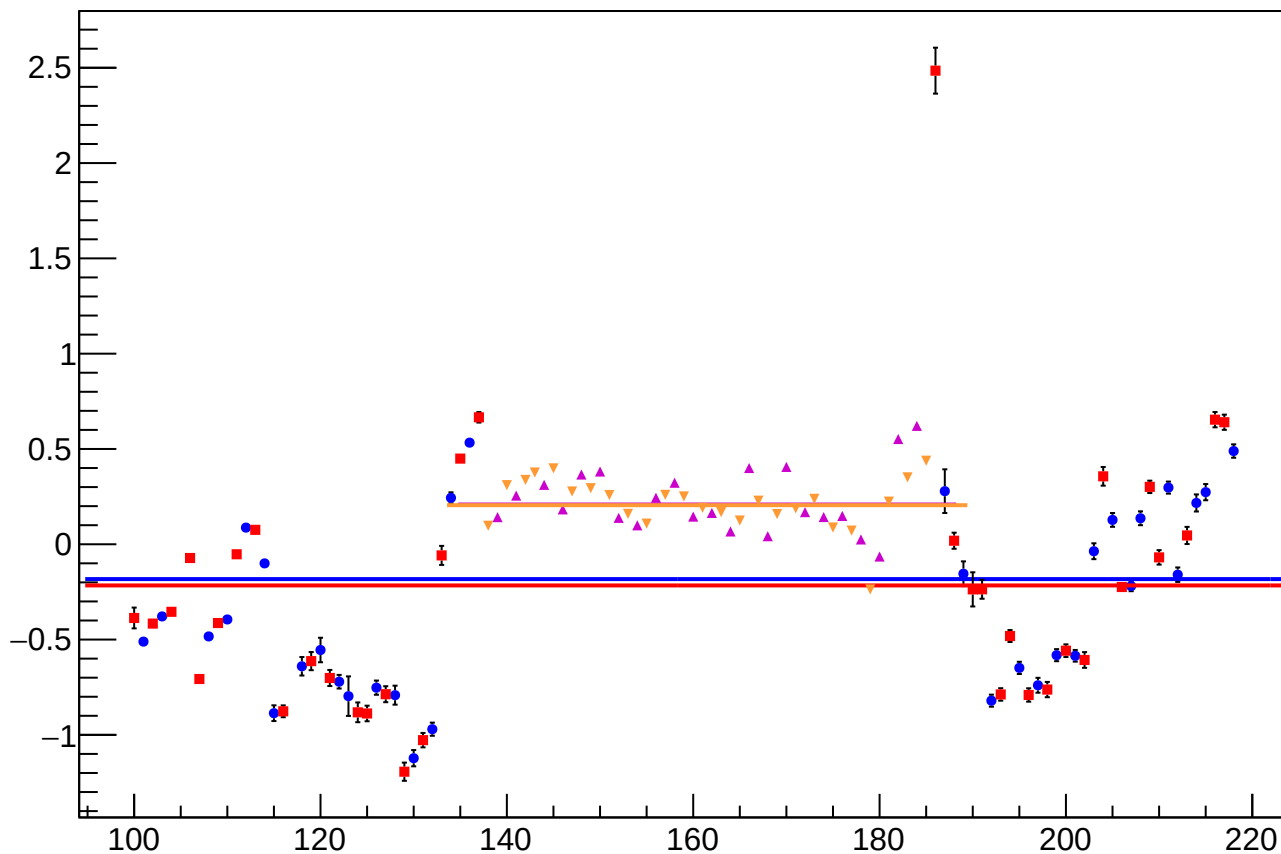
Right: 38.137 $\pm$ 0.055 χ^2 /NDF: 68883.9/68

In: 37.691 $\pm$ 0.042 χ^2 /NDF:50803.5/55

Out: 37.403 $\pm$ 0.040 χ^2 /NDF:57040.0/60

All: 37.540 $\pm$ 0.029 χ^2 /NDF: 107868.0/116

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.183 ± 0.004 χ^2/NDF : 9480.2/32

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.216 ± 0.004 χ^2/NDF : 10345.3/35

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

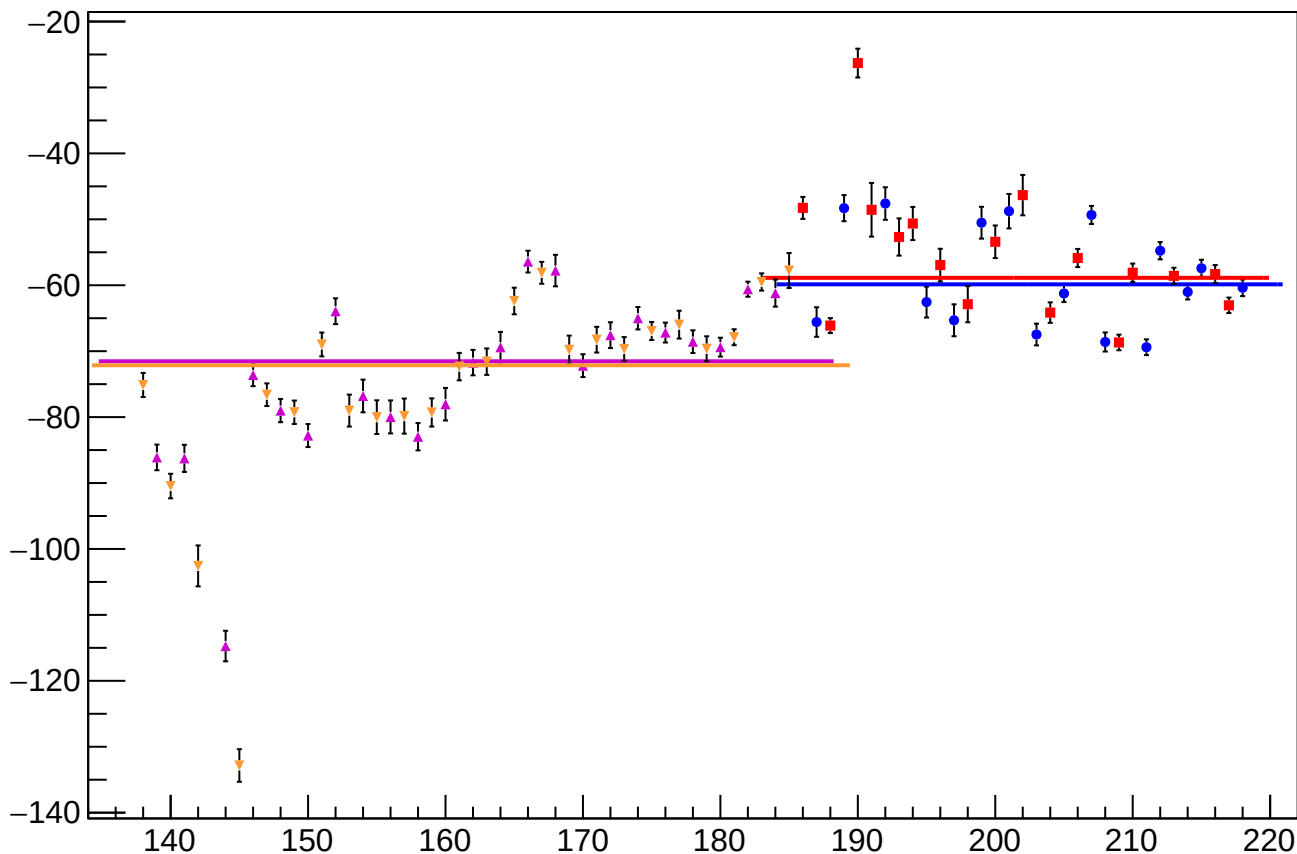
Right: -0.201 ± 0.003 χ^2/NDF : 19858.4/68

In: 0.124 ± 0.002 χ^2/NDF : 21125.7/55

Out: 0.106 ± 0.002 χ^2/NDF : 23016.5/60

All: 0.114 ± 0.001 χ^2/NDF : 44186.2/116

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -59.863 ± 0.392 χ^2/NDF : 305.6/15

Left Out: -72.138 ± 0.383 χ^2/NDF : 1121.3/23

Right Out: -58.874 ± 0.396 χ^2/NDF : 448.0/16

Left In: -71.534 ± 0.382 χ^2/NDF : 851.4/22

Left: -71.835 ± 0.270 χ^2/NDF : 1974.0/46

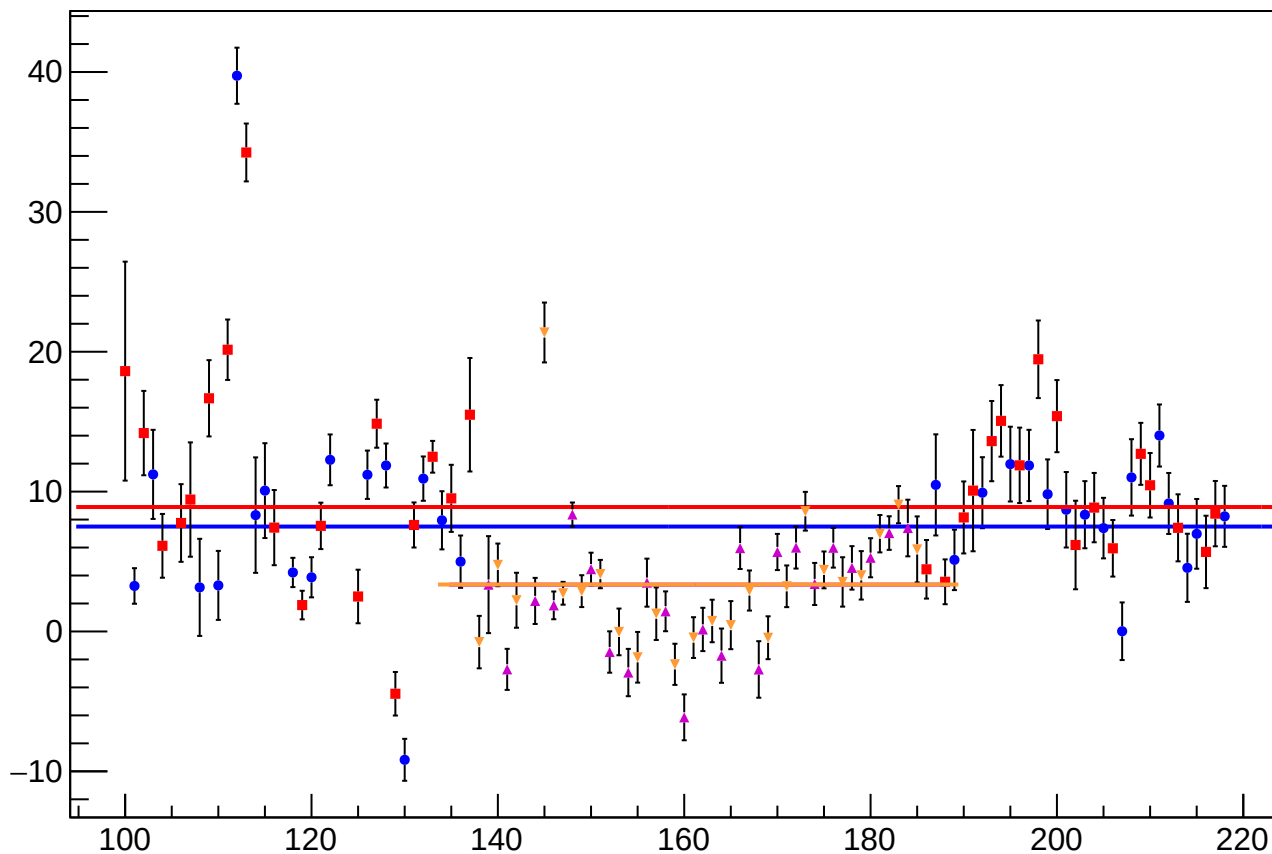
Right: -59.374 ± 0.279 χ^2/NDF : 756.7/32

In: -65.853 ± 0.273 χ^2/NDF : 1612.1/38

Out: -65.737 ± 0.275 χ^2/NDF : 2148.6/40

All: -65.795 ± 0.194 χ^2/NDF : 3760.8/79

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.500 $\pm$ 0.356 χ^2 /NDF: 476.6/31

Left Out: 3.357 $\pm$ 0.295 χ^2 /NDF:167.7/23

Right Out: 8.898 $\pm$ 0.356 χ^2 /NDF: 404.3/34

Left In: 3.349 $\pm$ 0.298 χ^2 /NDF:163.5/22

Left: 3.353 $\pm$ 0.210 χ^2 /NDF: 331.2/46

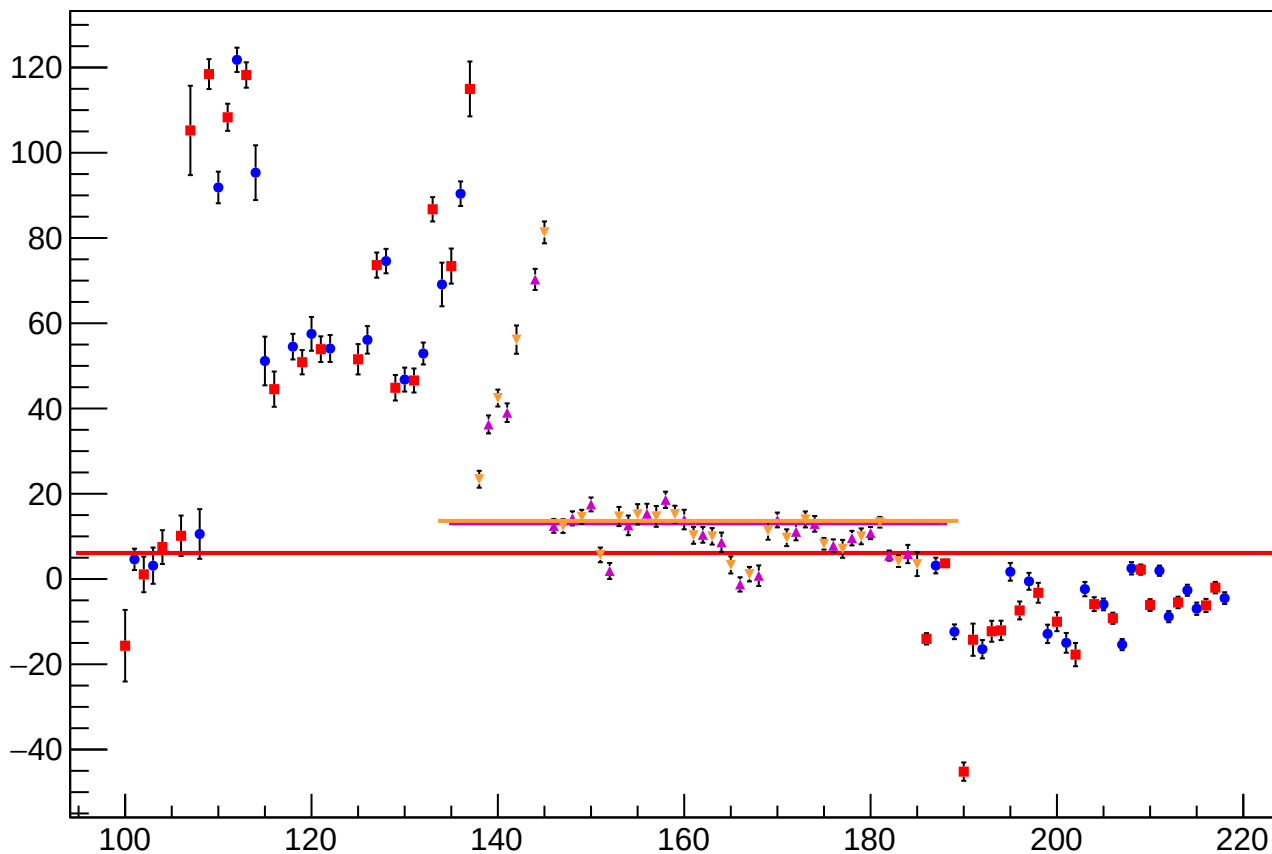
Right: 8.198 $\pm$ 0.252 χ^2 /NDF: 888.6/66

In: 5.063 $\pm$ 0.229 χ^2 /NDF:720.1/54

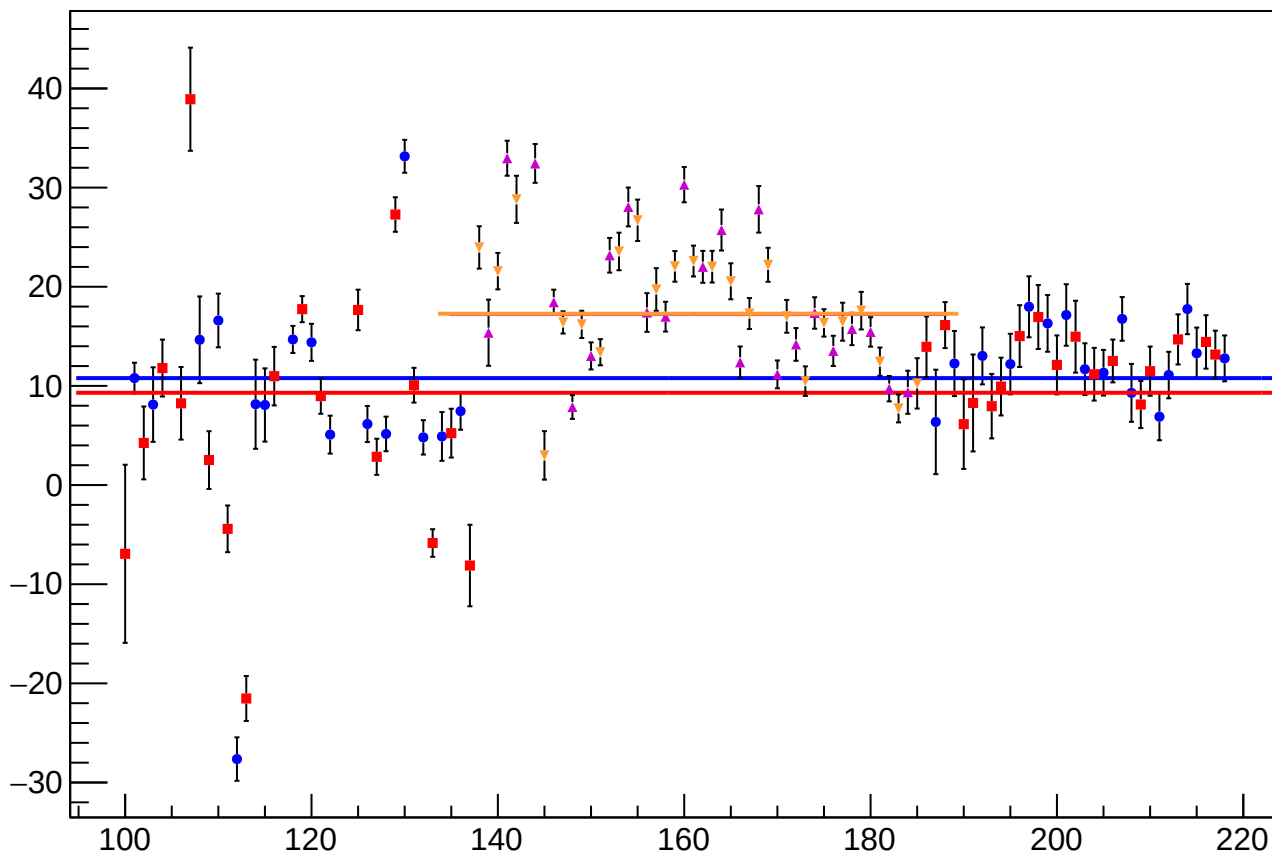
Out: 5.611 $\pm$ 0.227 χ^2 /NDF:715.7/58

All: 5.339 $\pm$ 0.161 χ^2 /NDF: 1438.7/113

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.785 $\pm$ 0.406 χ^2 /NDF: 588.5/31

Left Out: 17.280 $\pm$ 0.337 χ^2 /NDF:243.9/23

Right Out: 9.310 $\pm$ 0.412 χ^2 /NDF: 617.9/34

Left In: 17.245 $\pm$ 0.339 χ^2 /NDF:440.8/22

Left: 17.262 $\pm$ 0.239 χ^2 /NDF: 684.6/46

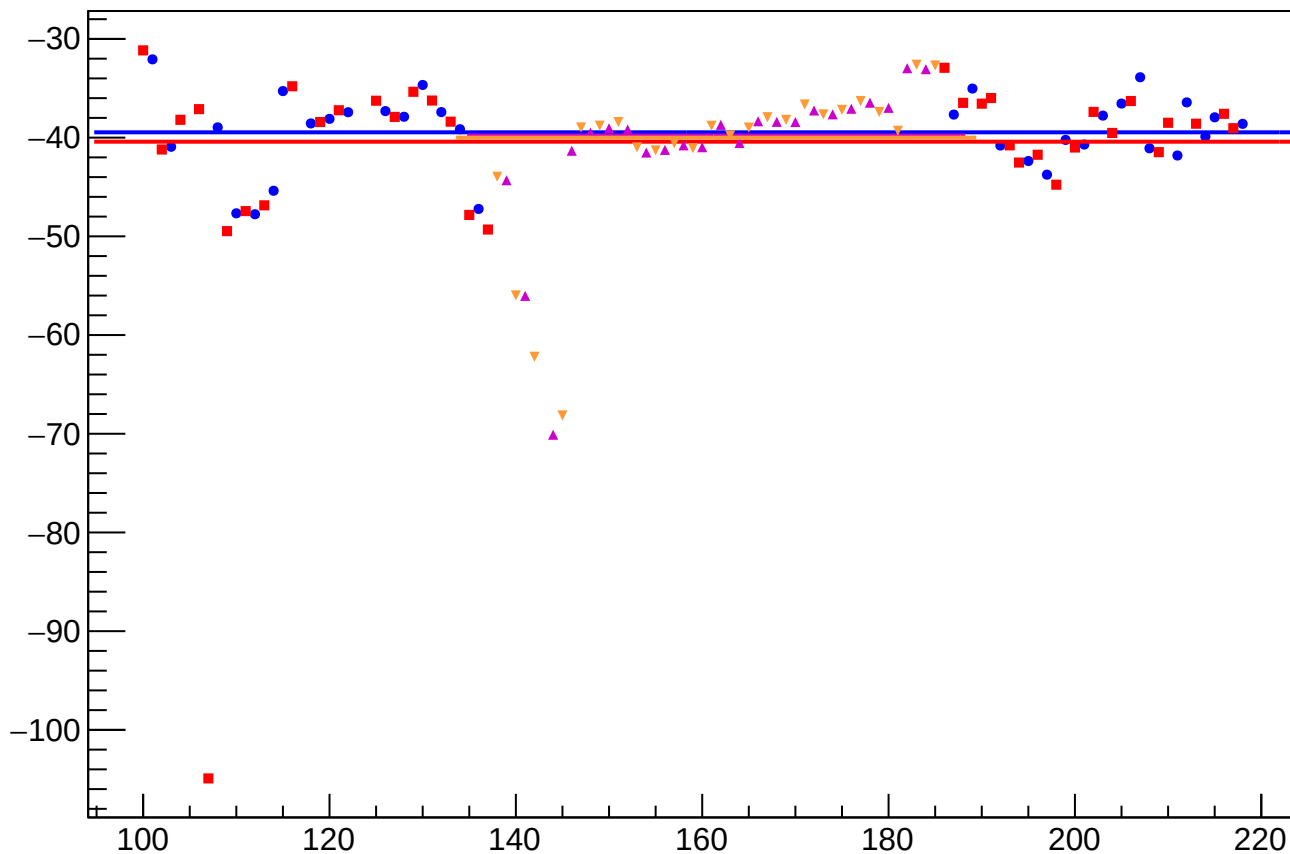
Right: 10.058 $\pm$ 0.289 χ^2 /NDF: 1212.9/66

In: 14.584 $\pm$ 0.260 χ^2 /NDF:1178.5/54

Out: 14.080 $\pm$ 0.261 χ^2 /NDF:1086.2/58

All: 14.333 $\pm$ 0.184 χ^2 /NDF: 2266.6/113

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.462 ± 0.020 χ^2/NDF : 37945.3/31

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -40.412 ± 0.020 χ^2/NDF : 107796.0/34

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

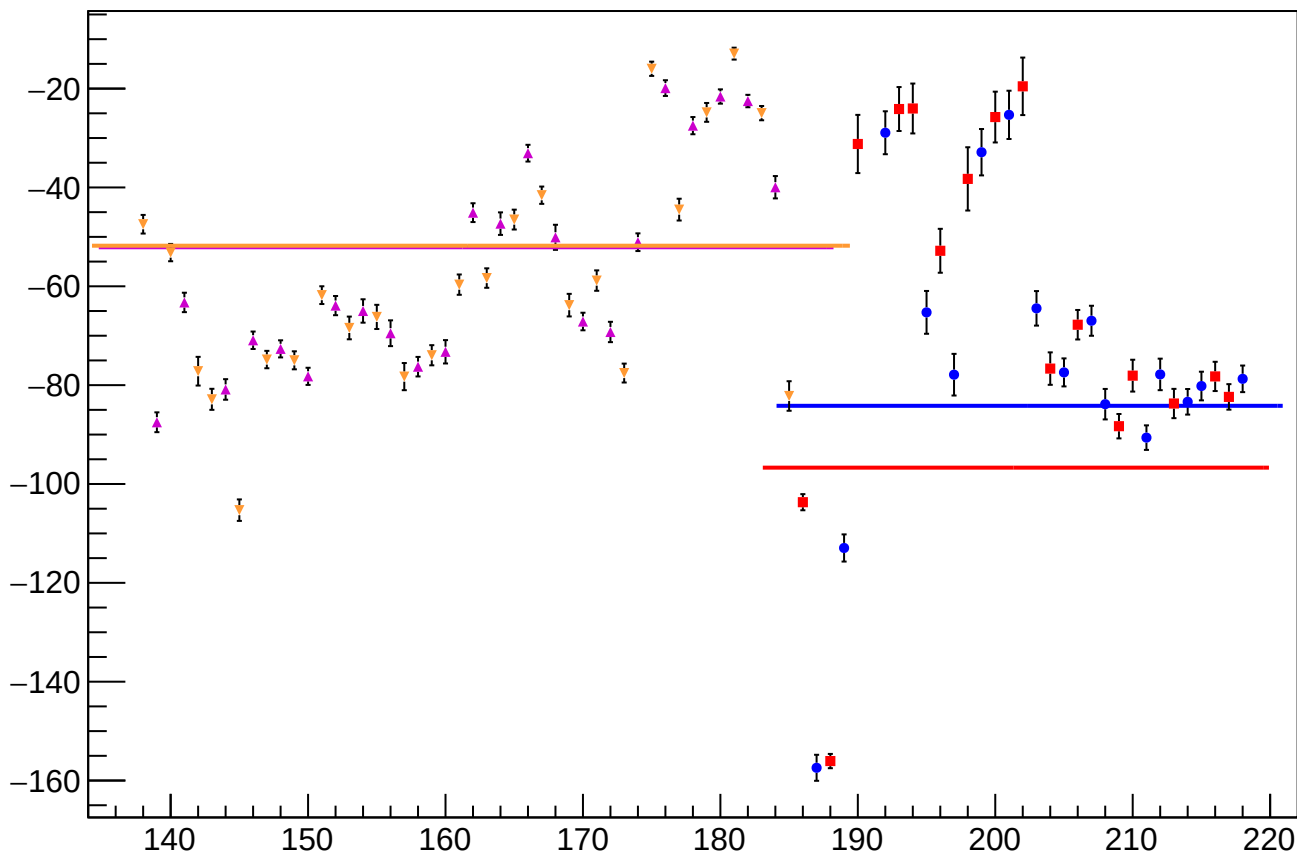
Right: -39.938 ± 0.014 χ^2/NDF : 146848.0/66

In: -39.664 ± 0.012 χ^2/NDF : 182599.6/54

Out: -40.156 ± 0.012 χ^2/NDF : 280319.4/58

All: -39.909 ± 0.009 χ^2/NDF : 463706.5/113

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -84.181 ± 0.787 $\chi^2/\text{NDF}: 1418.4/15$

Left Out: -51.787 ± 0.383 $\chi^2/\text{NDF}: 4164.8/24$

Right Out: -96.693 ± 0.714 $\chi^2/\text{NDF}: 3114.1/15$

Left In: -52.104 ± 0.389 $\chi^2/\text{NDF}: 3280.2/22$

Left: -51.943 ± 0.273 $\chi^2/\text{NDF}: 7445.3/47$

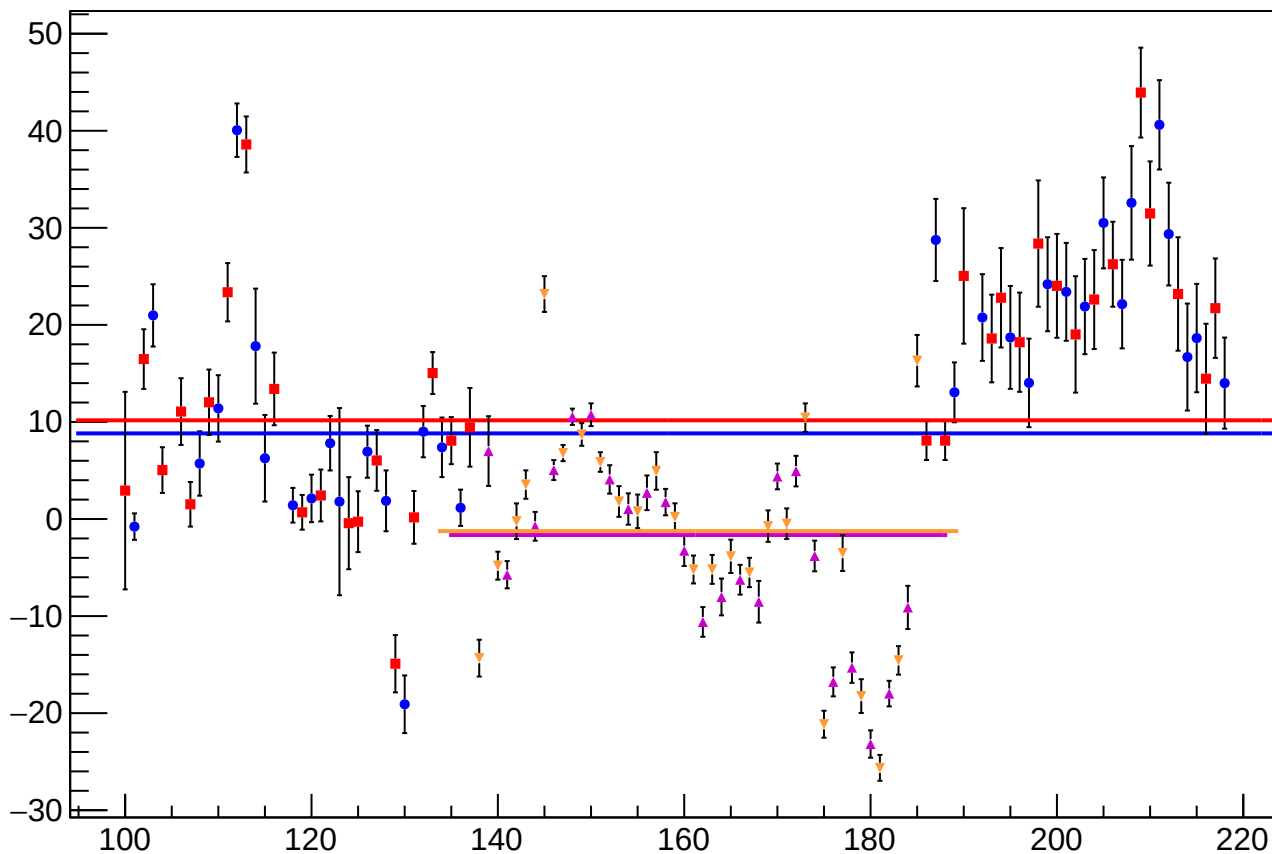
Right: -91.042 ± 0.529 $\chi^2/\text{NDF}: 4671.0/31$

In: -58.390 ± 0.349 $\chi^2/\text{NDF}: 6033.5/38$

Out: -61.795 ± 0.337 $\chi^2/\text{NDF}: 10348.7/40$

All: -60.148 ± 0.242 $\chi^2/\text{NDF}: 16431.4/79$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.823 ± 0.553 $\chi^2/\text{NDF}: 510.1/32$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 10.168 ± 0.545 $\chi^2/\text{NDF}: 421.4/34$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

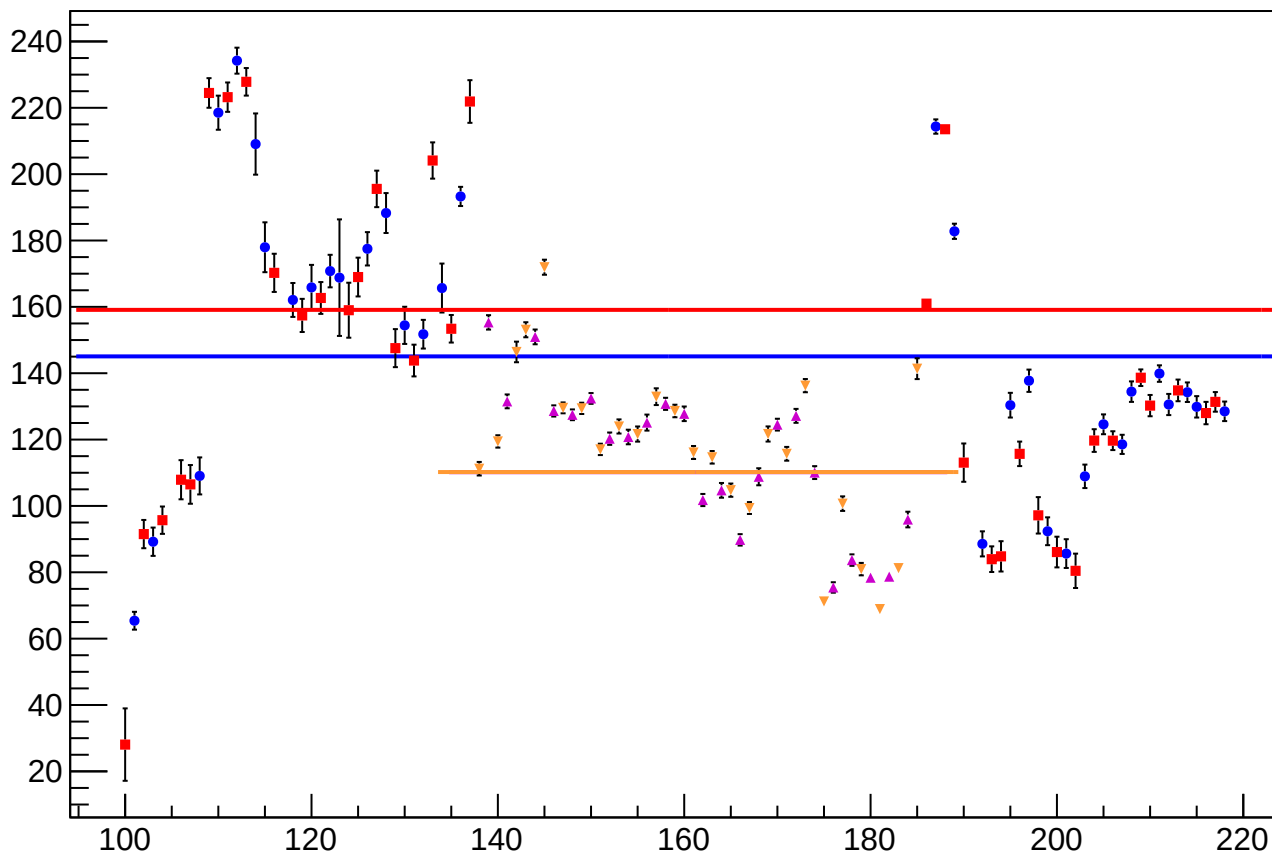
Right: 9.505 ± 0.388 $\chi^2/\text{NDF}: 934.5/67$

In: 0.730 ± 0.264 $\chi^2/\text{NDF}: 1879.0/55$

Out: 1.293 ± 0.257 $\chi^2/\text{NDF}: 2084.5/59$

All: 1.019 ± 0.184 $\chi^2/\text{NDF}: 3965.8/115$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 145.074 $\pm$ 0.632 χ^2 /NDF: 4544.4/32

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 159.096 $\pm$ 0.564 χ^2 /NDF: 6073.1/34

Left In: 110.171 $\pm$ 0.386 χ^2 /NDF:3702.6/22

Left: 110.192 $\pm$ 0.272 χ^2 /NDF: 8296.2/47

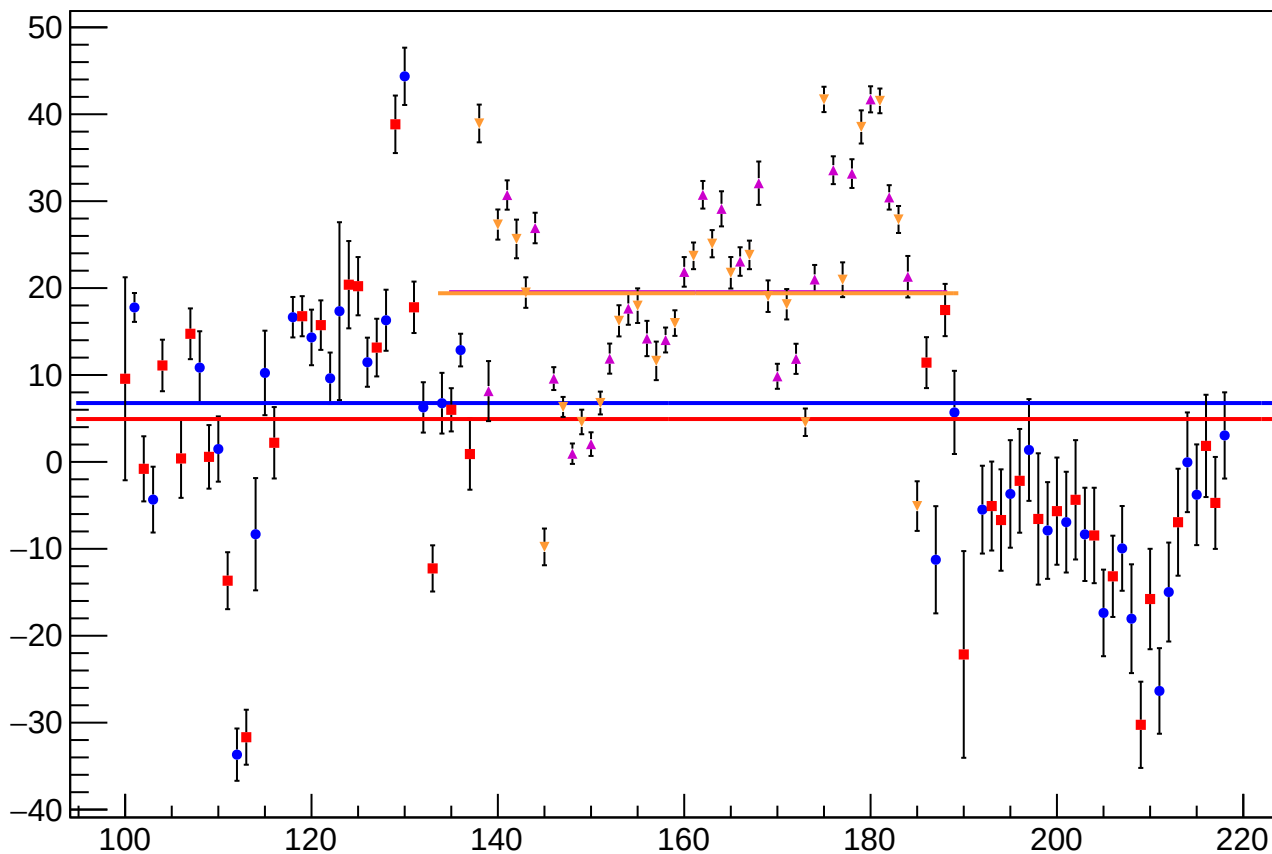
Right: 152.887 $\pm$ 0.421 χ^2 /NDF: 10891.6/67

In: 119.647 $\pm$ 0.329 χ^2 /NDF:10467.0/55

Out: 125.602 $\pm$ 0.316 χ^2 /NDF:15821.1/59

All: 122.747 $\pm$ 0.228 χ^2 /NDF: 26458.1/115

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.772 ± 0.637 χ^2/NDF : 573.2/32

Left Out: 19.405 ± 0.335 χ^2/NDF : 1453.4/24

Right Out: 4.933 ± 0.643 χ^2/NDF : 566.3/34

Left In: 19.530 ± 0.342 χ^2/NDF : 1181.3/22

Left: 19.466 ± 0.239 χ^2/NDF : 2634.8/47

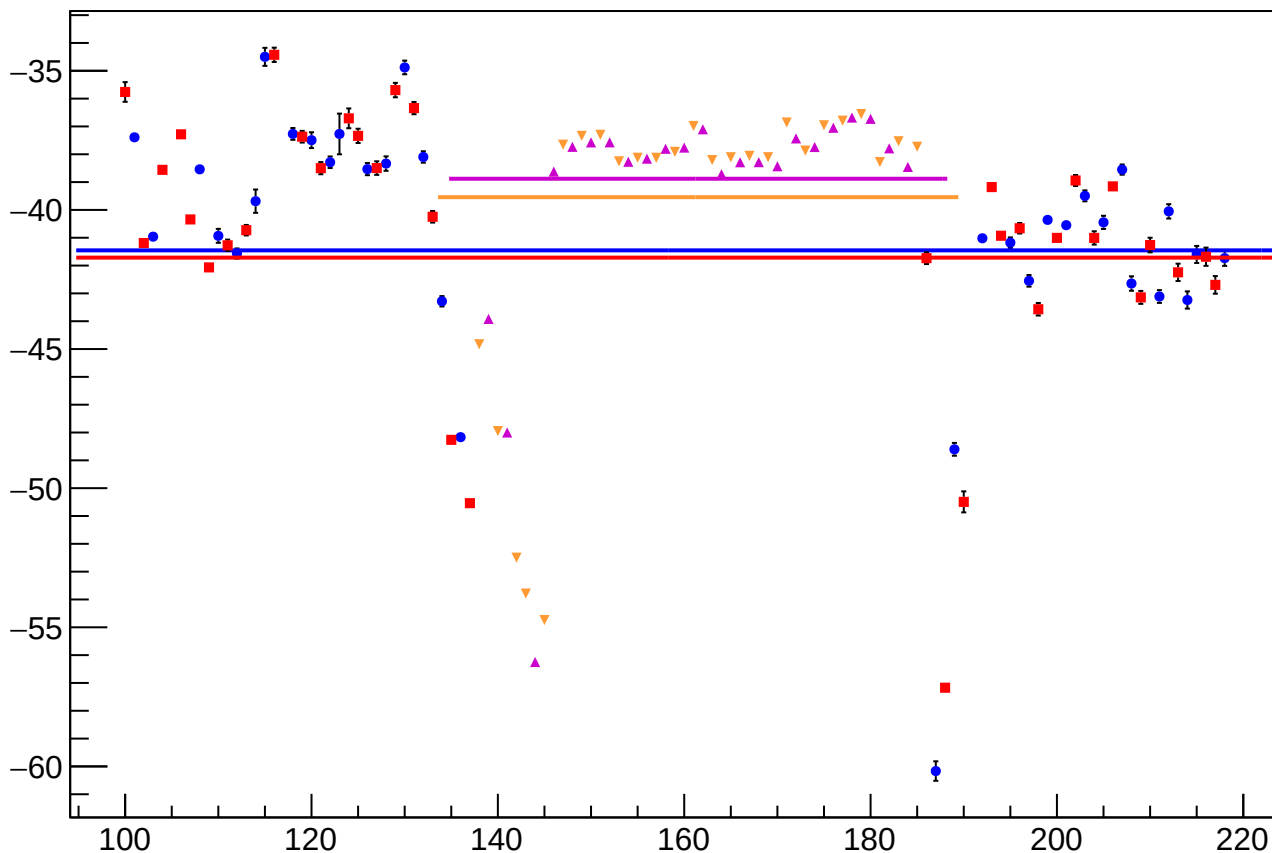
Right: 5.861 ± 0.452 χ^2/NDF : 1143.6/67

In: 16.666 ± 0.302 χ^2/NDF : 2066.0/55

Out: 16.319 ± 0.297 χ^2/NDF : 2418.4/59

All: 16.490 ± 0.212 χ^2/NDF : 4485.1/115

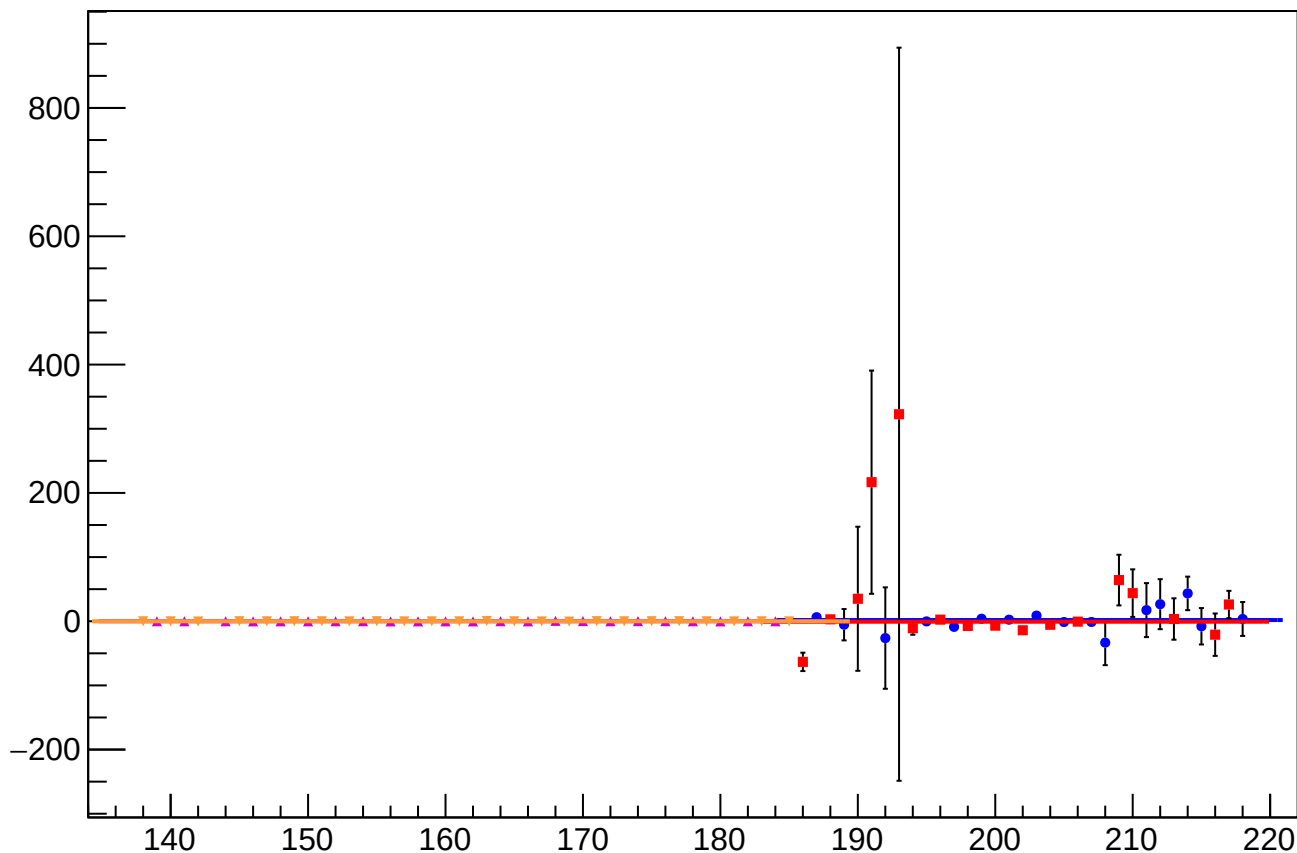
reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.453 ± 0.031 $\chi^2/\text{NDF}: 16957.6/32$
 Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$
 Right Out: -41.715 ± 0.031 $\chi^2/\text{NDF}: 23123.4/34$
 Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$
 Right: -41.585 ± 0.022 $\chi^2/\text{NDF}: 40116.0/67$
 In: -39.405 ± 0.014 $\chi^2/\text{NDF}: 75741.2/55$
 Out: -39.983 ± 0.014 $\chi^2/\text{NDF}: 119019.8/59$
 All: -39.696 ± 0.010 $\chi^2/\text{NDF}: 195600.4/115$

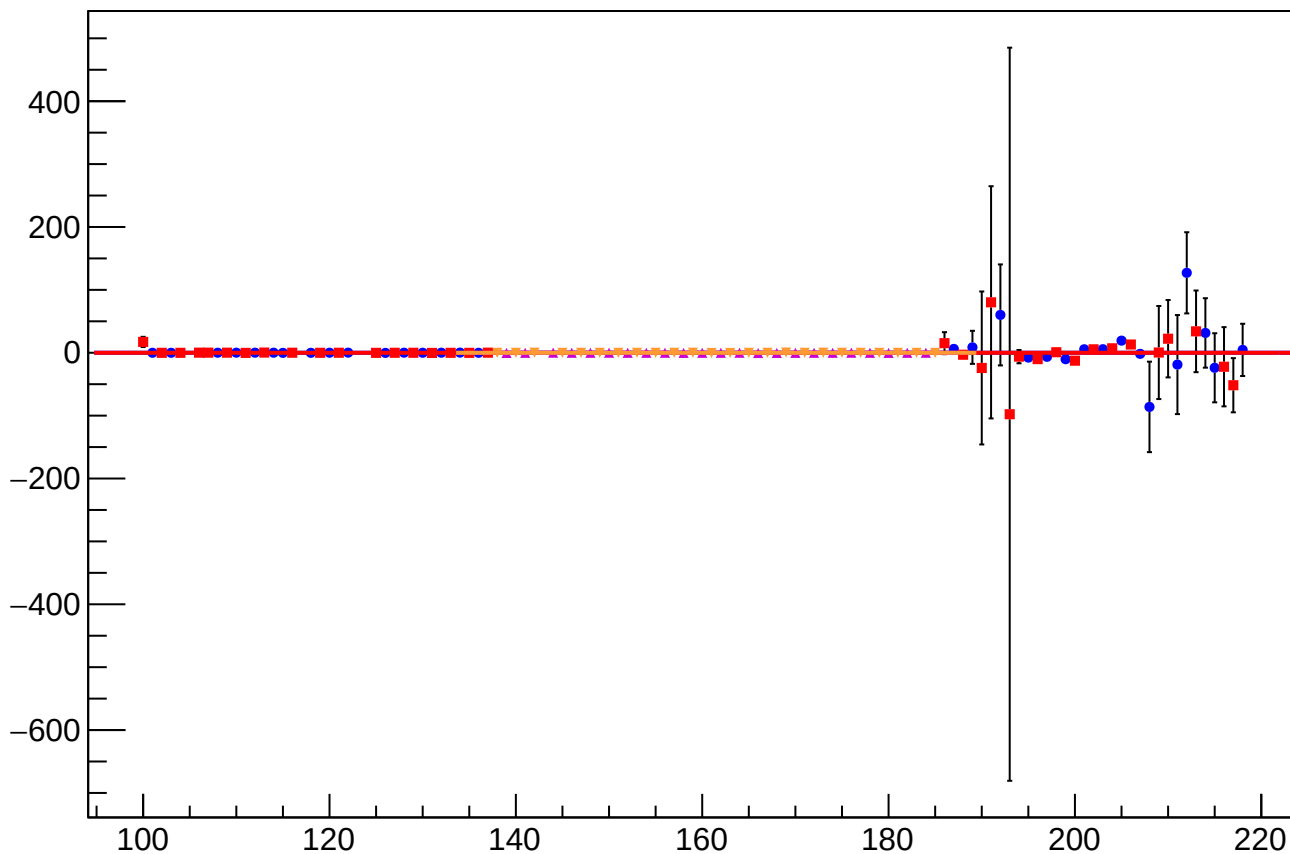
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.875 ± 1.526 $\chi^2/\text{NDF}: 15.4/15$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.754 ± 1.414 $\chi^2/\text{NDF}: 38.7/16$
 Left In: -0.026 ± 0.022 $\chi^2/\text{NDF}: 33.3/22$

Left: -0.057 ± 0.016 $\chi^2/\text{NDF}: 77.1/46$
 Right: 0.460 ± 1.037 $\chi^2/\text{NDF}: 55.7/32$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 50.3/38$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 78.6/40$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 133.0/79$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 37.8/31

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 43.1/34

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

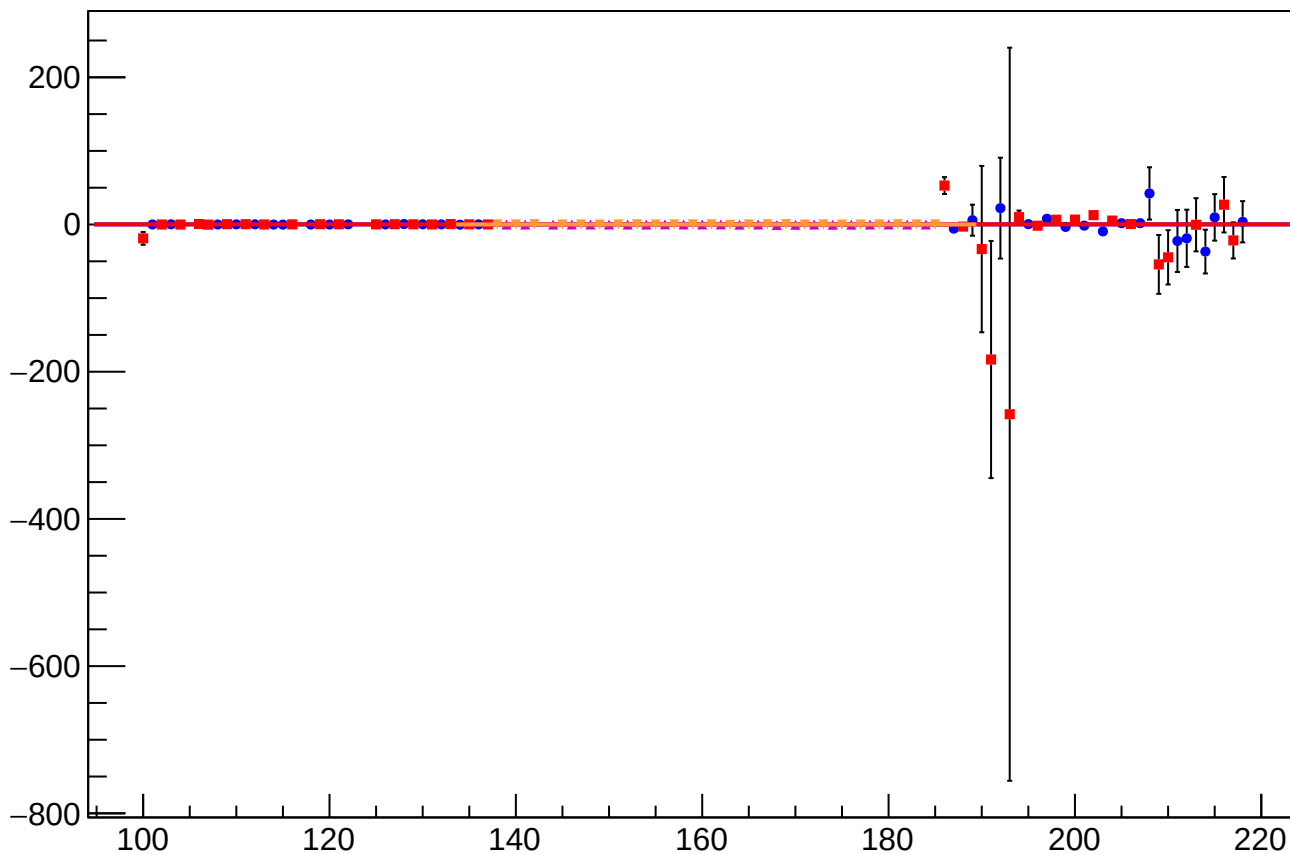
Right: -0.025 ± 0.020 χ^2/NDF : 82.3/66

In: -0.038 ± 0.015 χ^2/NDF : 71.8/54

Out: -0.073 ± 0.015 χ^2/NDF : 69.7/58

All: -0.056 ± 0.011 χ^2/NDF : 144.2/113

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 30.7/31

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 61.6/34

Left In: 0.020 $\pm$ 0.022 χ^2 /NDF:35.6/22

Left: 0.051 $\pm$ 0.016 χ^2 /NDF: 77.8/46

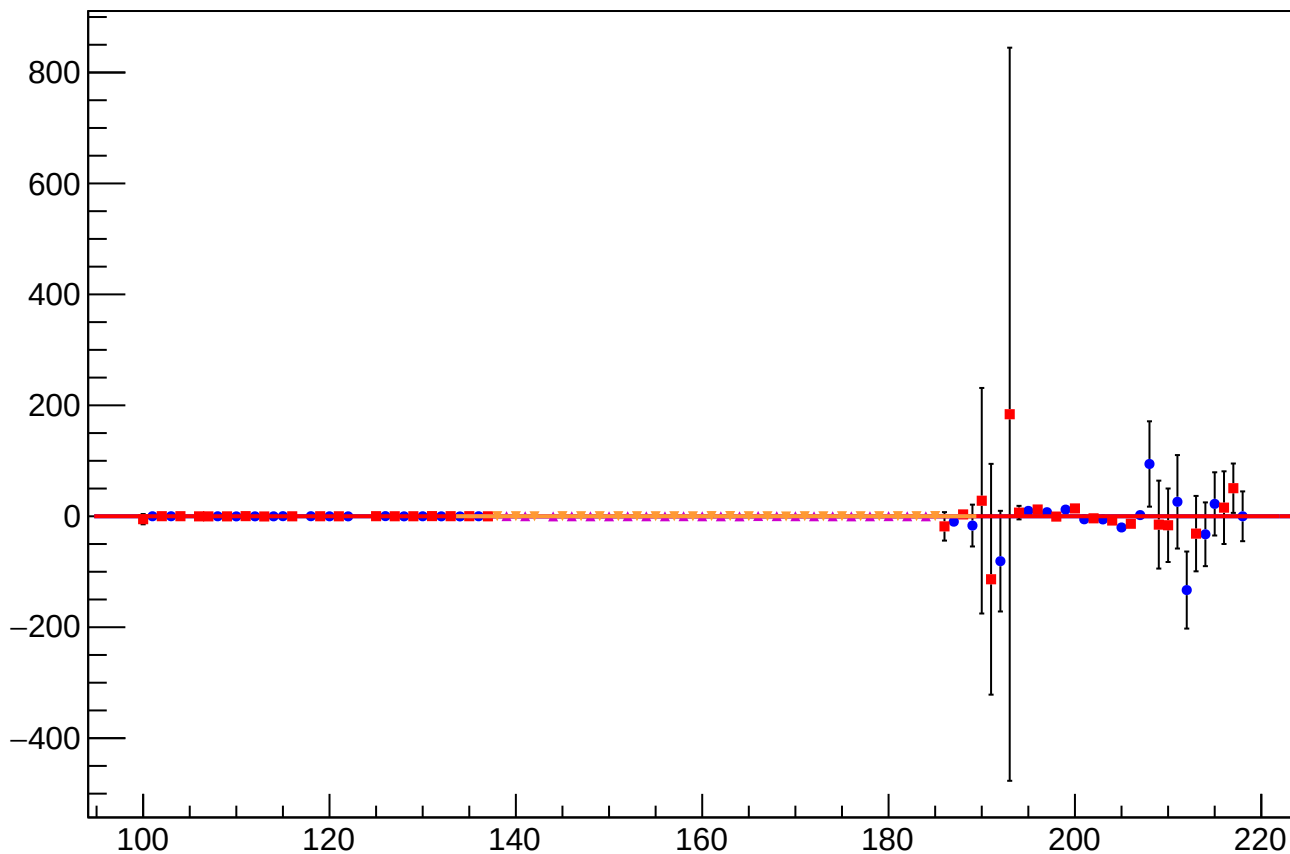
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 93.0/66

In: 0.043 $\pm$ 0.020 χ^2 /NDF:73.4/54

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:107.0/58

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 184.8/113

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 $\chi^2/\text{NDF}: 39.2/31$

Left Out: 0.105 ± 0.020 $\chi^2/\text{NDF}: 29.5/23$

Right Out: 0.057 ± 0.034 $\chi^2/\text{NDF}: 36.2/34$

Left In: 0.069 ± 0.020 $\chi^2/\text{NDF}: 31.3/22$

Left: 0.088 ± 0.014 $\chi^2/\text{NDF}: 62.5/46$

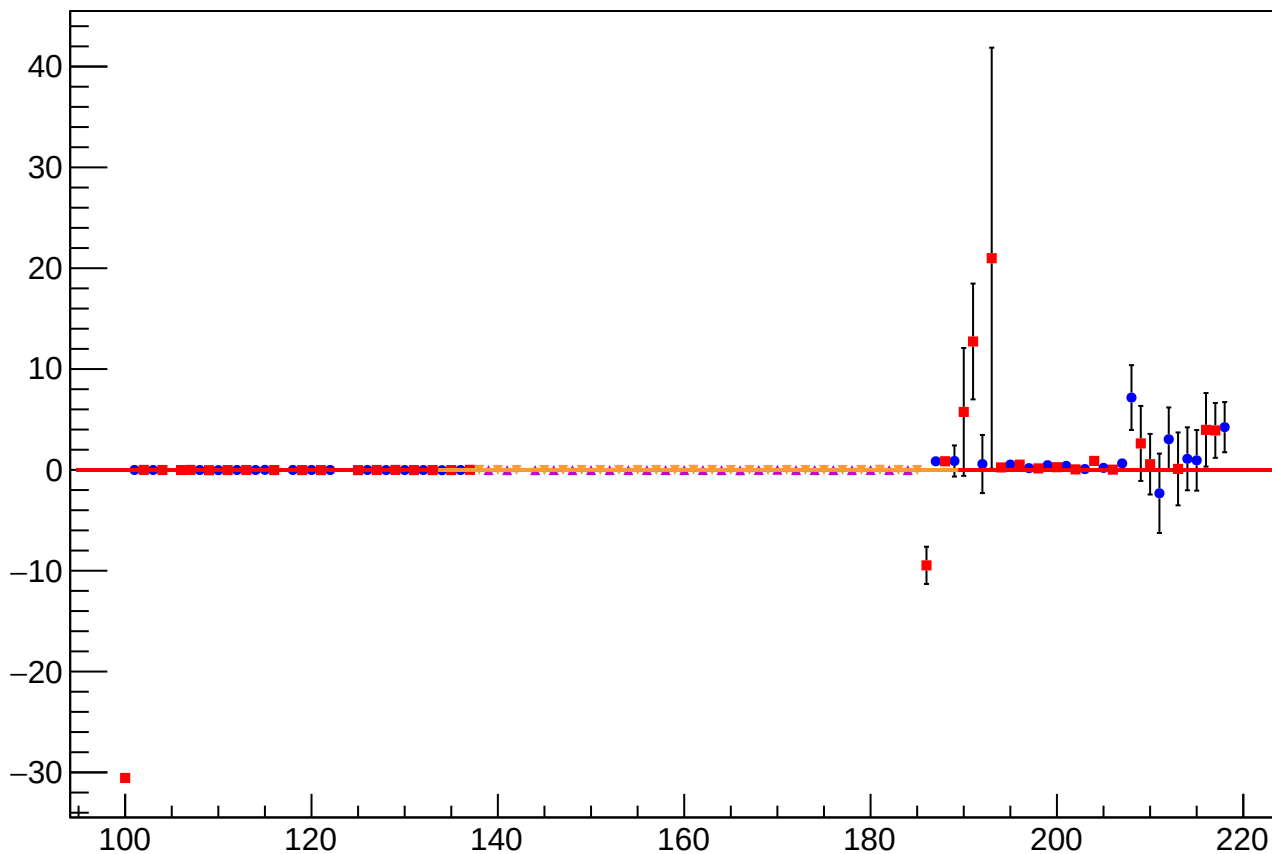
Right: 0.024 ± 0.024 $\chi^2/\text{NDF}: 77.3/66$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 74.4/54$

Out: 0.093 ± 0.017 $\chi^2/\text{NDF}: 67.2/58$

All: 0.071 ± 0.012 $\chi^2/\text{NDF}: 145.1/113$

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 51.0/31

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11958.1/34

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

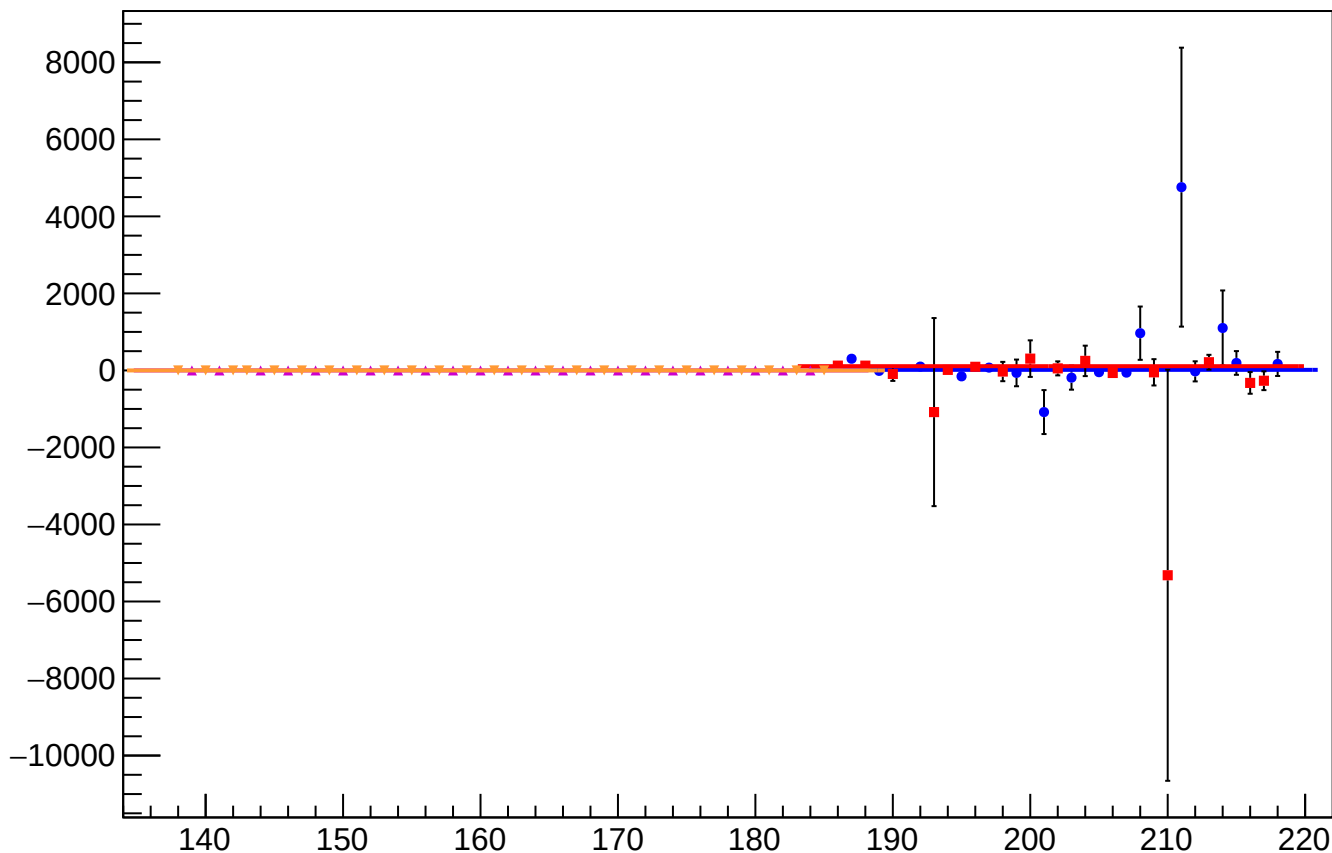
Right: -0.012 ± 0.001 χ^2/NDF : 12009.2/66

In: -0.009 ± 0.001 χ^2/NDF : 94.0/54

Out: -0.009 ± 0.001 χ^2/NDF : 11992.0/58

All: -0.009 ± 0.001 χ^2/NDF : 12086.3/113

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.875+/-25.721 χ^2/NDF : 25.8/15

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 110.162+/-16.049 χ^2/NDF : 13.6/15

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

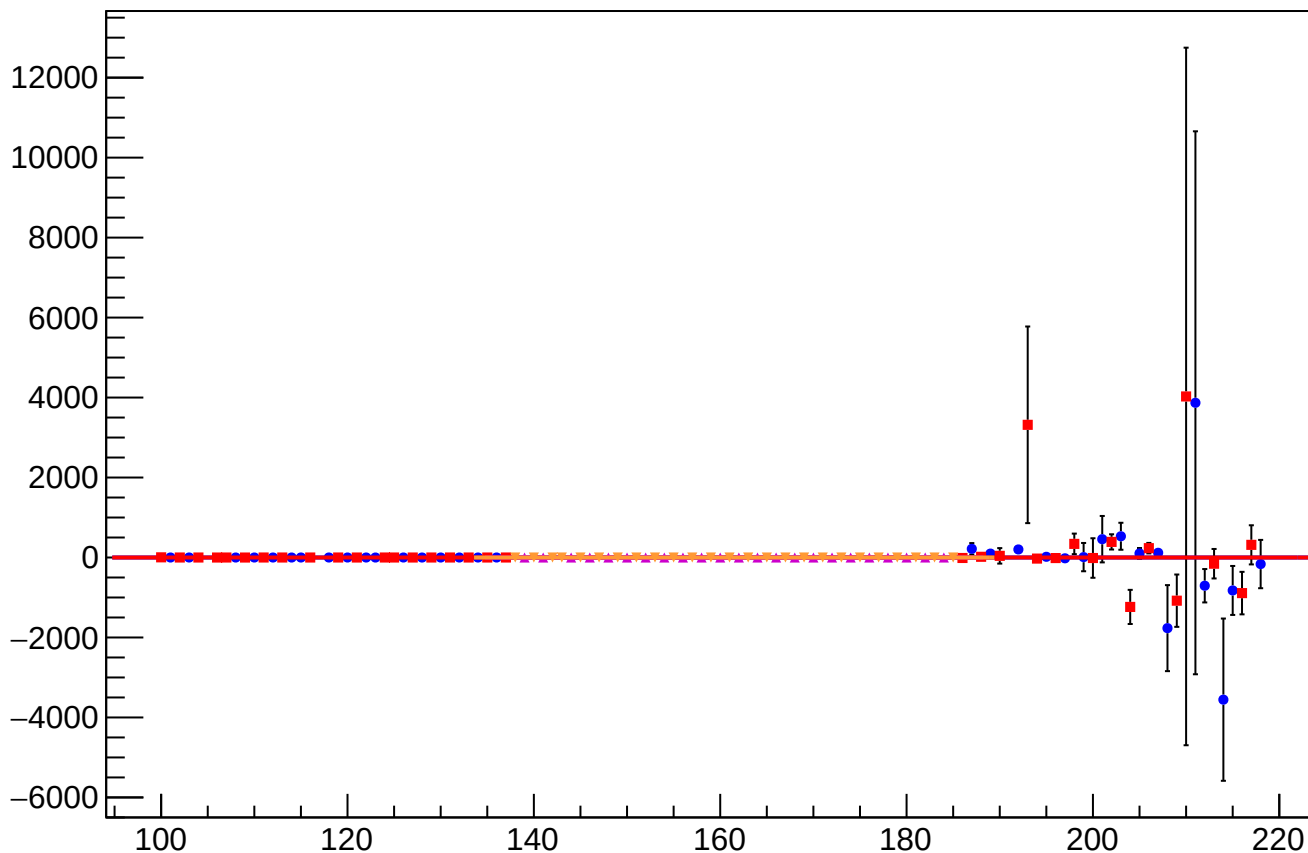
Right: 83.460+/-13.616 χ^2/NDF : 49.3/31

In: 0.002+/-0.028 χ^2/NDF :55.1/38

Out: 0.018+/-0.027 χ^2/NDF :91.7/40

All: 0.010+/-0.019 χ^2/NDF : 147.0/79

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 49.9/32$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 44.6/34$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

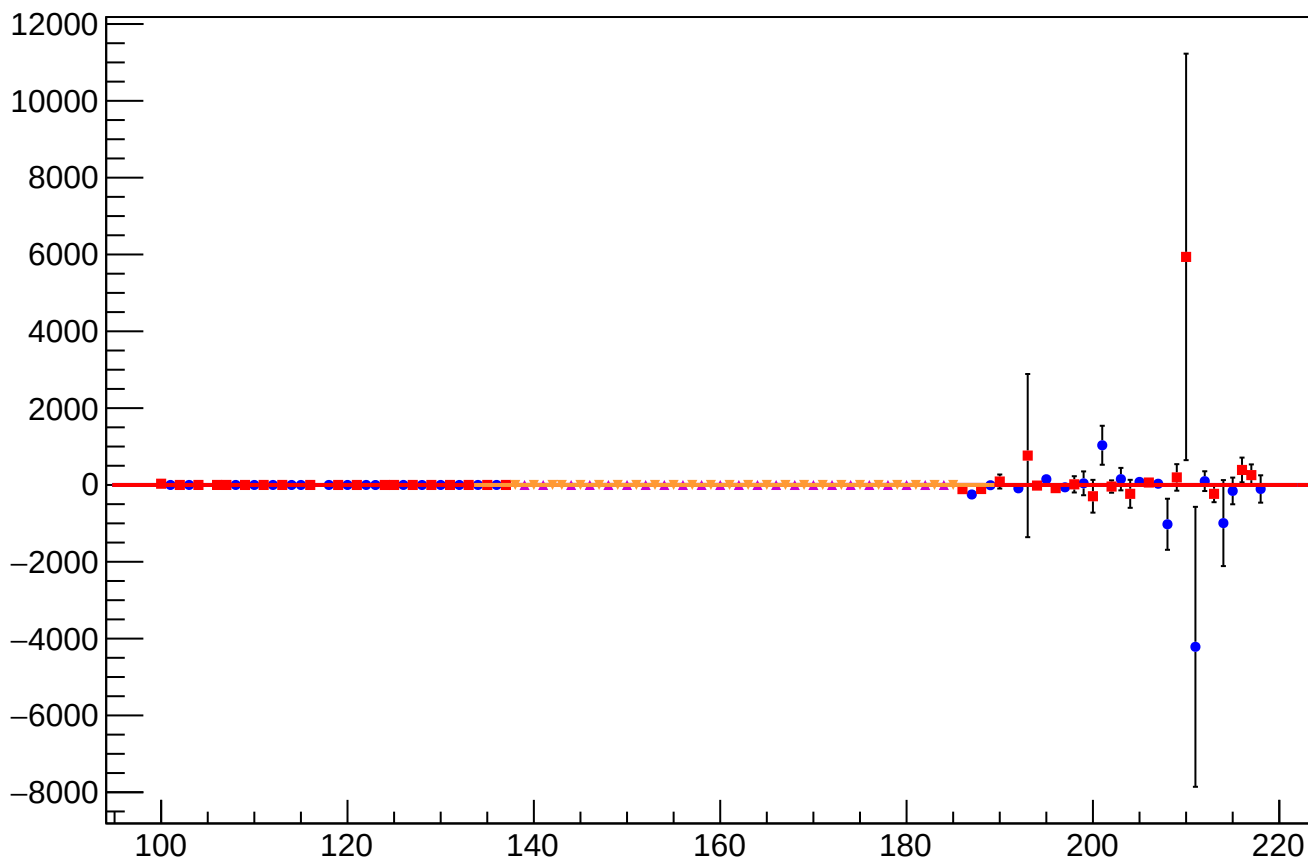
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 97.8/67$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 100.1/55$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 71.1/59$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 171.5/115$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 χ^2/NDF : 51.1/32

Left Out: -0.018 ± 0.027 χ^2/NDF : 29.0/24

Right Out: -0.167 ± 0.071 χ^2/NDF : 84.1/34

Left In: -0.033 ± 0.027 χ^2/NDF : 28.5/22

Left: -0.025 ± 0.019 χ^2/NDF : 57.6/47

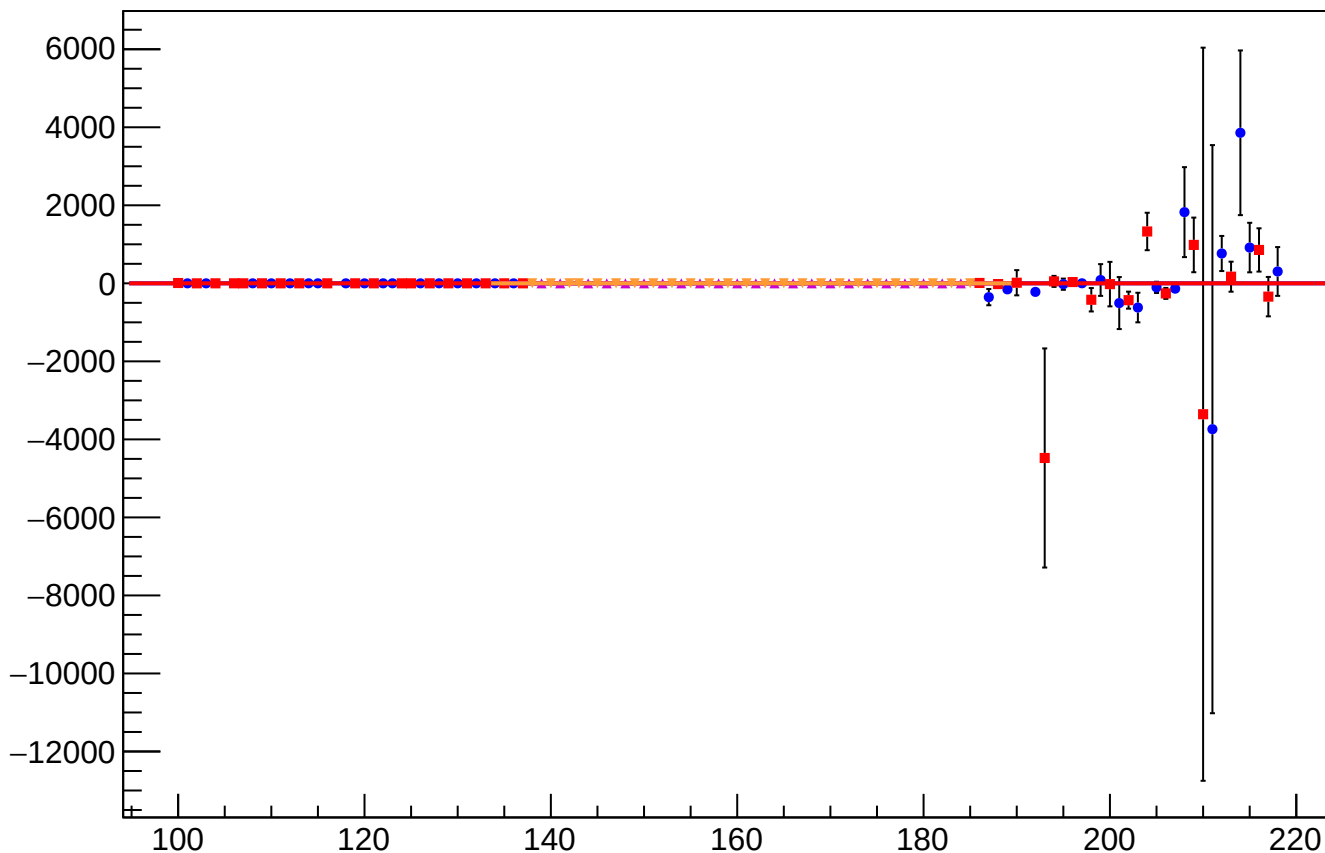
Right: -0.150 ± 0.049 χ^2/NDF : 135.3/67

In: -0.047 ± 0.025 χ^2/NDF : 81.5/55

Out: -0.037 ± 0.025 χ^2/NDF : 117.0/59

All: -0.042 ± 0.018 χ^2/NDF : 198.6/115

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 49.4/32

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 41.8/34

Left In: 0.069 $\pm$ 0.025 χ^2 /NDF:51.8/22

Left: 0.066 $\pm$ 0.017 χ^2 /NDF: 76.5/47

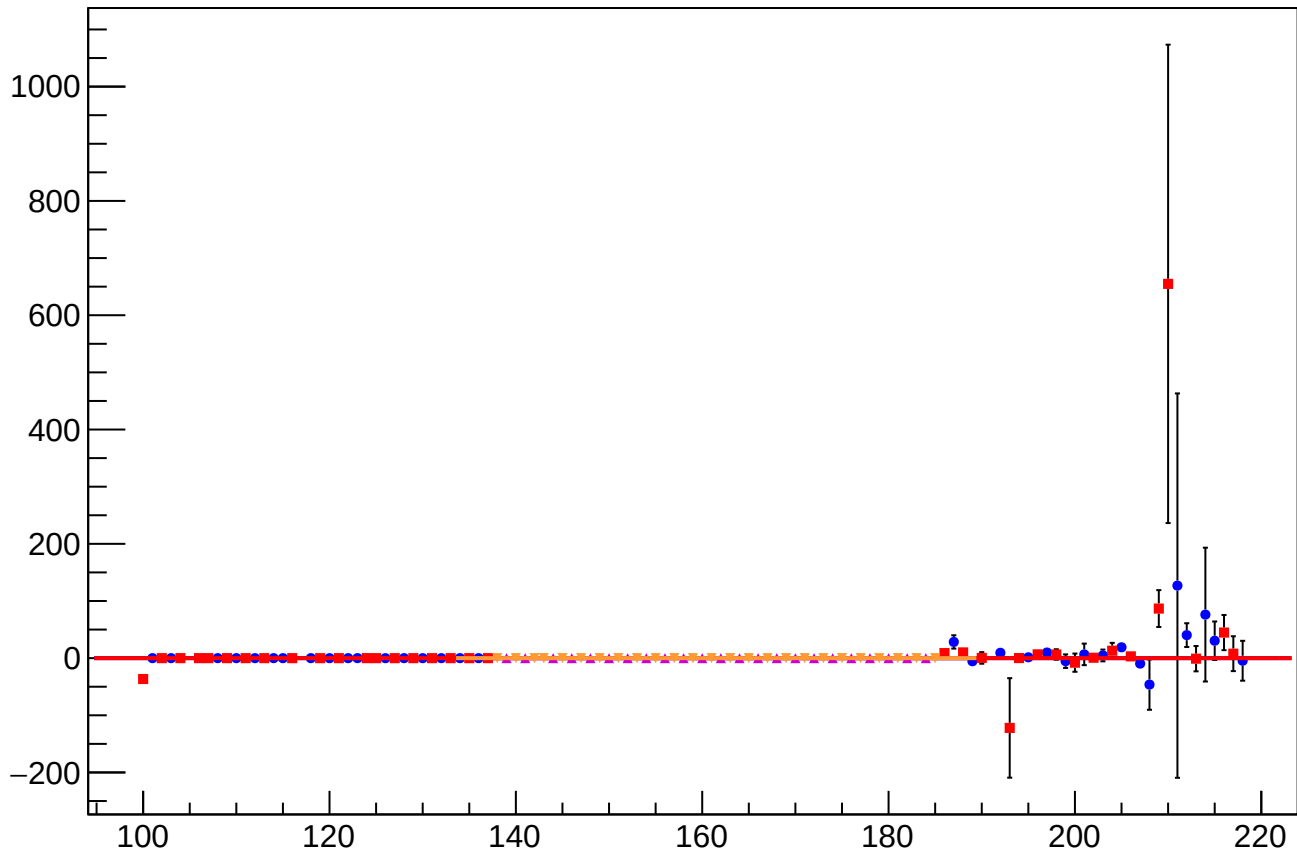
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 95.2/67

In: 0.056 $\pm$ 0.021 χ^2 /NDF:102.3/55

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:68.9/59

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 171.8/115

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001+/-0.002 χ^2/NDF : 69.2/32

Left Out: 0.008+/-0.001 χ^2/NDF : 26.3/24

Right Out: 0.001+/-0.002 χ^2/NDF : 10486.2/34

Left In: 0.009+/-0.001 χ^2/NDF : 15.0/22

Left: 0.009+/-0.001 χ^2/NDF : 41.4/47

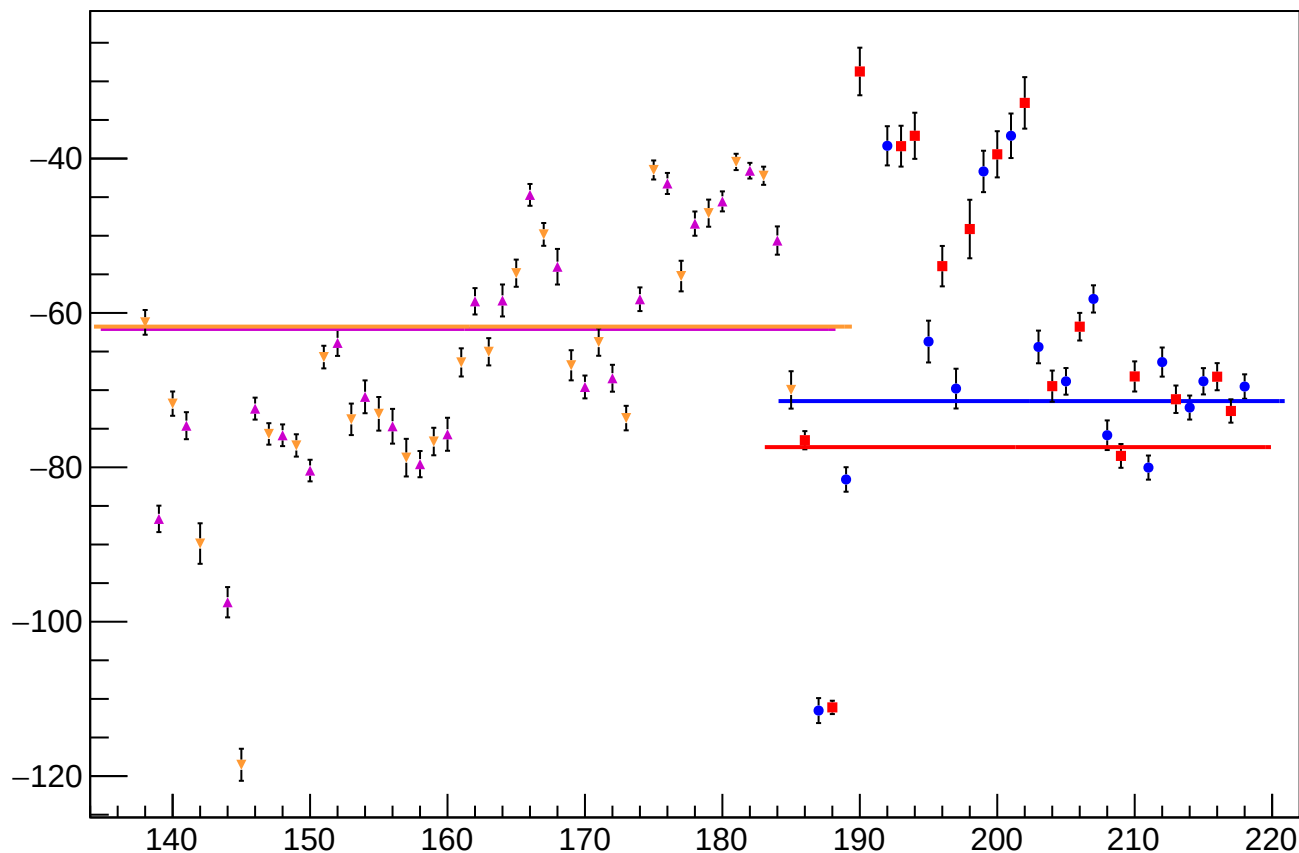
Right: 0.001+/-0.002 χ^2/NDF : 10555.4/67

In: 0.007+/-0.001 χ^2/NDF : 93.7/55

Out: 0.007+/-0.001 χ^2/NDF : 10521.4/59

All: 0.007+/-0.001 χ^2/NDF : 10615.2/115

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.420 ± 0.472 $\chi^2/\text{NDF}: 1214.8/15$

Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$

Right Out: -77.382 ± 0.440 $\chi^2/\text{NDF}: 2809.4/15$

Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$

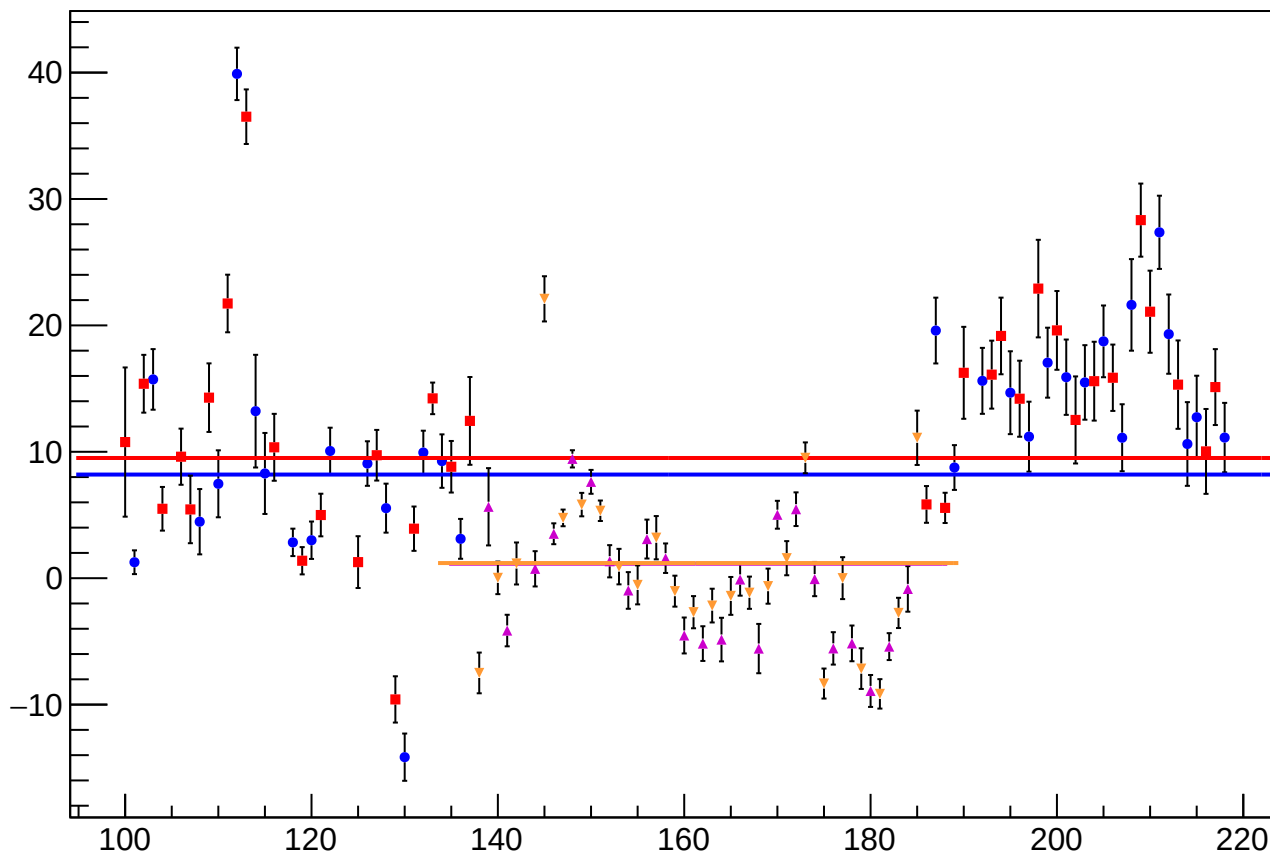
Right: -74.610 ± 0.322 $\chi^2/\text{NDF}: 4109.4/31$

In: -65.167 ± 0.272 $\chi^2/\text{NDF}: 3668.6/38$

Out: -67.468 ± 0.266 $\chi^2/\text{NDF}: 6112.1/39$

All: -66.342 ± 0.190 $\chi^2/\text{NDF}: 9817.2/78$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.199 ± 0.365 $\chi^2/\text{NDF}: 640.2/31$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 9.510 ± 0.366 $\chi^2/\text{NDF}: 550.5/33$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

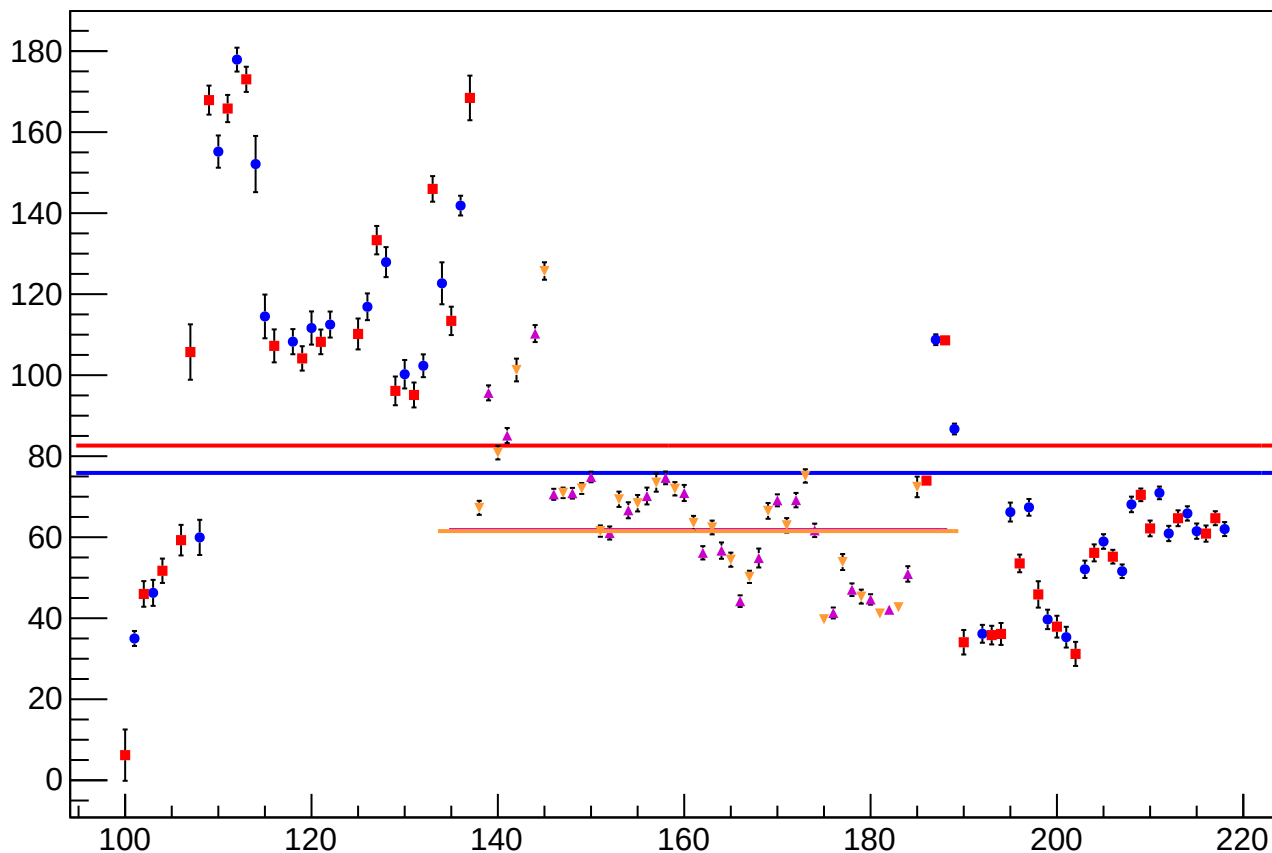
Right: 8.854 ± 0.259 $\chi^2/\text{NDF}: 1197.2/65$

In: 3.460 ± 0.209 $\chi^2/\text{NDF}: 1353.5/54$

Out: 3.881 ± 0.208 $\chi^2/\text{NDF}: 1426.5/57$

All: 3.672 ± 0.147 $\chi^2/\text{NDF}: 2782.1/112$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 75.870 $\pm$ 0.397 χ^2 /NDF: 6144.2/31

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF:2606.0/23

Right Out: 82.622 $\pm$ 0.360 χ^2 /NDF: 7864.4/33

Left In: 61.762 $\pm$ 0.330 χ^2 /NDF:2418.2/22

Left: 61.638 $\pm$ 0.234 χ^2 /NDF: 5024.5/46

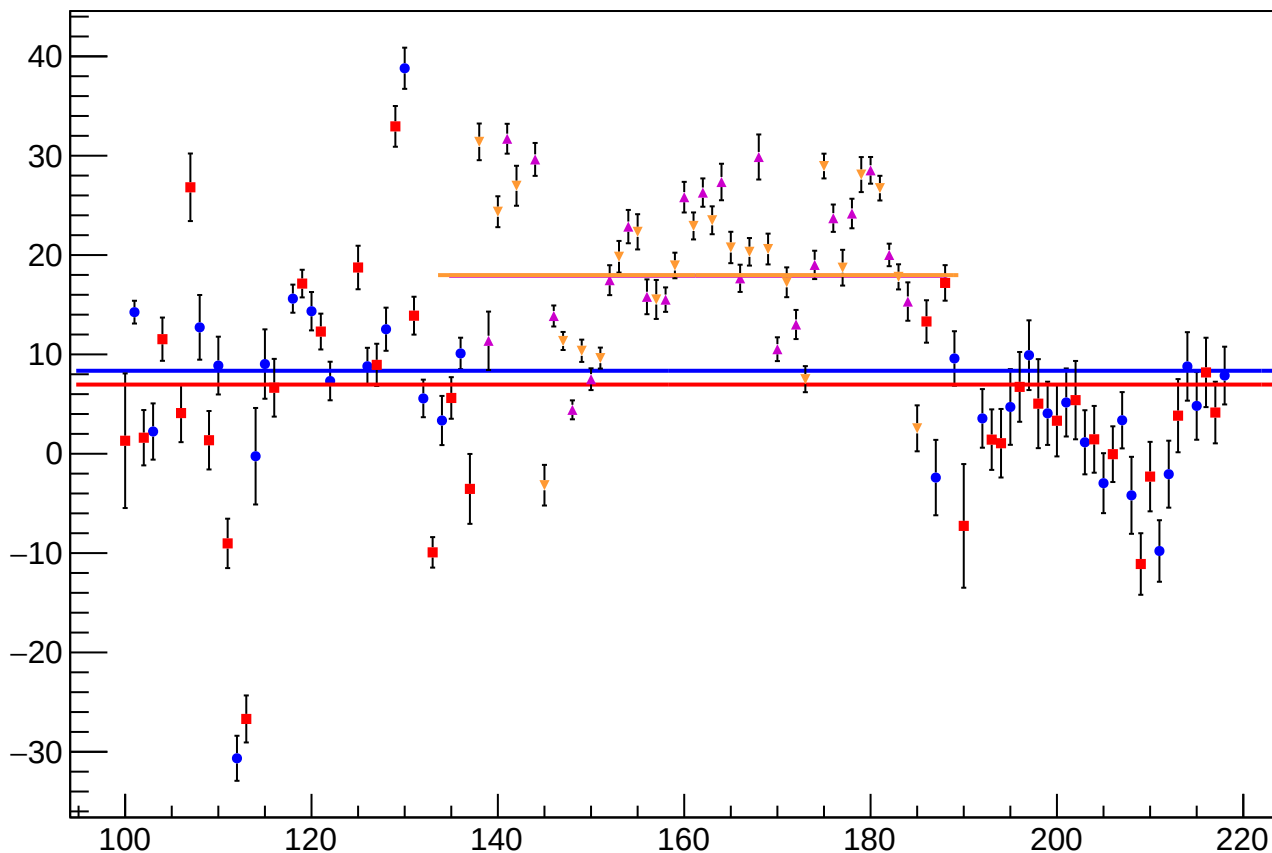
Right: 79.571 $\pm$ 0.267 χ^2 /NDF: 14167.5/65

In: 67.534 $\pm$ 0.254 χ^2 /NDF:9310.3/54

Out: 71.221 $\pm$ 0.244 χ^2 /NDF:12326.3/57

All: 69.447 $\pm$ 0.176 χ^2 /NDF: 21746.2/112

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.352 ± 0.424 χ^2/NDF : 687.9/31

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 6.963 ± 0.433 χ^2/NDF : 793.5/33

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

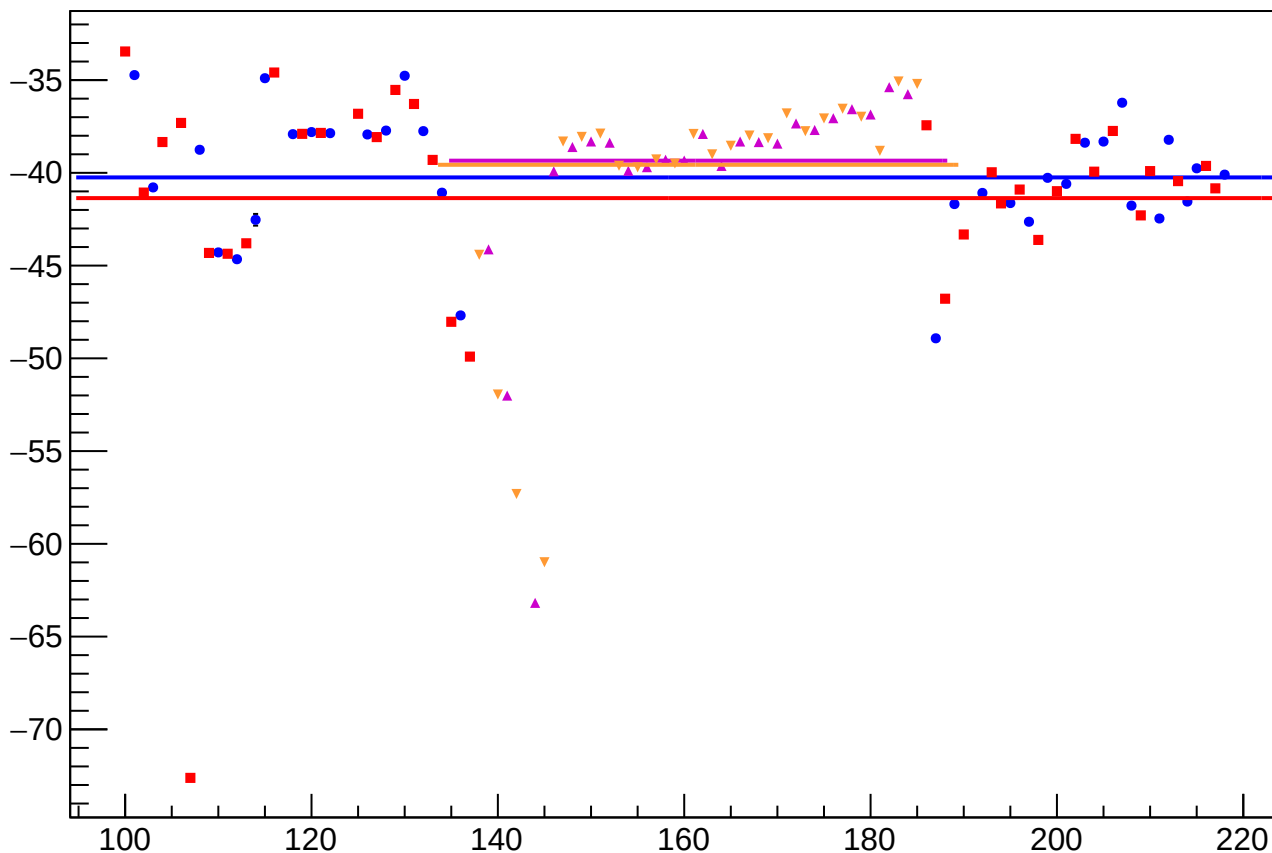
Right: 7.673 ± 0.303 χ^2/NDF : 1486.6/65

In: 14.836 ± 0.241 χ^2/NDF : 1759.1/54

Out: 14.559 ± 0.242 χ^2/NDF : 1913.3/57

All: 14.698 ± 0.170 χ^2/NDF : 3673.1/112

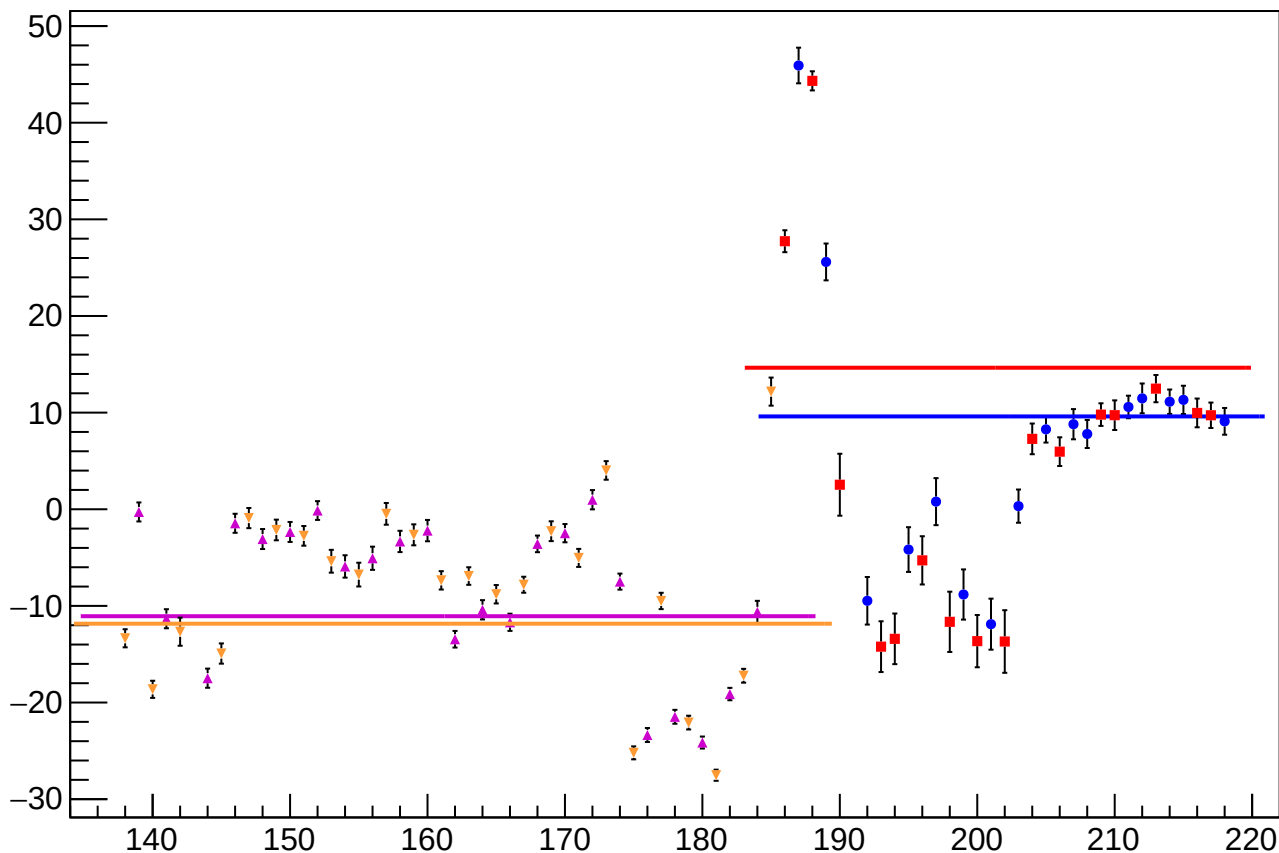
reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.247 ± 0.021 $\chi^2/\text{NDF}: 29899.1/31$
 Left Out: -39.566 ± 0.014 $\chi^2/\text{NDF}: 141198.7/23$
 Right Out: -41.362 ± 0.021 $\chi^2/\text{NDF}: 68795.3/33$
 Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.454 ± 0.010 $\chi^2/\text{NDF}: 257946.5/46$
 Right: -40.803 ± 0.015 $\chi^2/\text{NDF}: 100091.3/65$
 In: -39.609 ± 0.011 $\chi^2/\text{NDF}: 147809.1/54$
 Out: -40.099 ± 0.012 $\chi^2/\text{NDF}: 215073.1/57$
 All: -39.852 ± 0.008 $\chi^2/\text{NDF}: 363796.1/112$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.605 ± 0.411 $\chi^2/\text{NDF}: 720.1/15$

Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$

Right Out: 14.646 ± 0.401 $\chi^2/\text{NDF}: 1711.9/15$

Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$

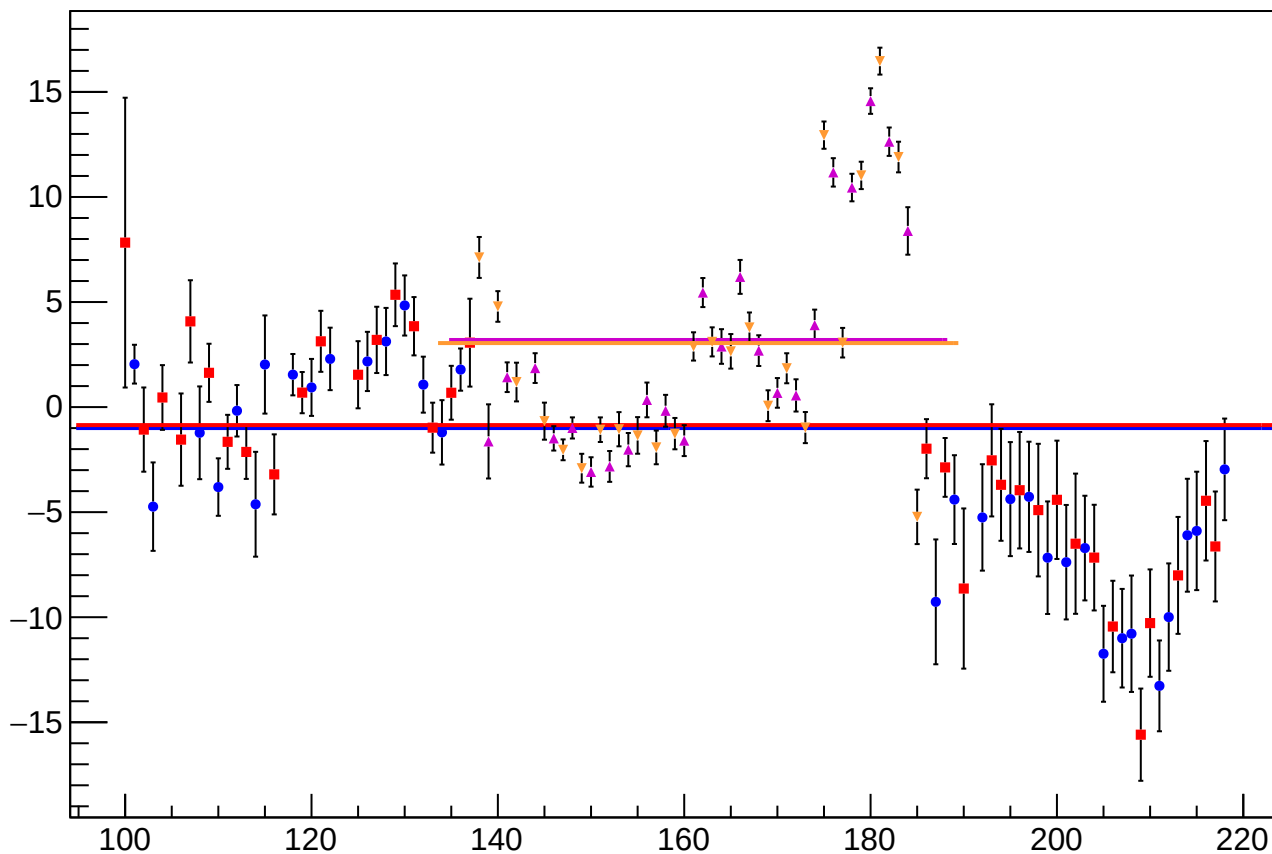
Right: 12.190 ± 0.287 $\chi^2/\text{NDF}: 2509.0/31$

In: -7.496 ± 0.171 $\chi^2/\text{NDF}: 4914.1/38$

Out: -7.119 ± 0.169 $\chi^2/\text{NDF}: 8036.4/39$

All: -7.306 ± 0.120 $\chi^2/\text{NDF}: 12952.9/78$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.998 ± 0.301 χ^2/NDF : 211.6/31

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.857 ± 0.302 χ^2/NDF : 180.7/33

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

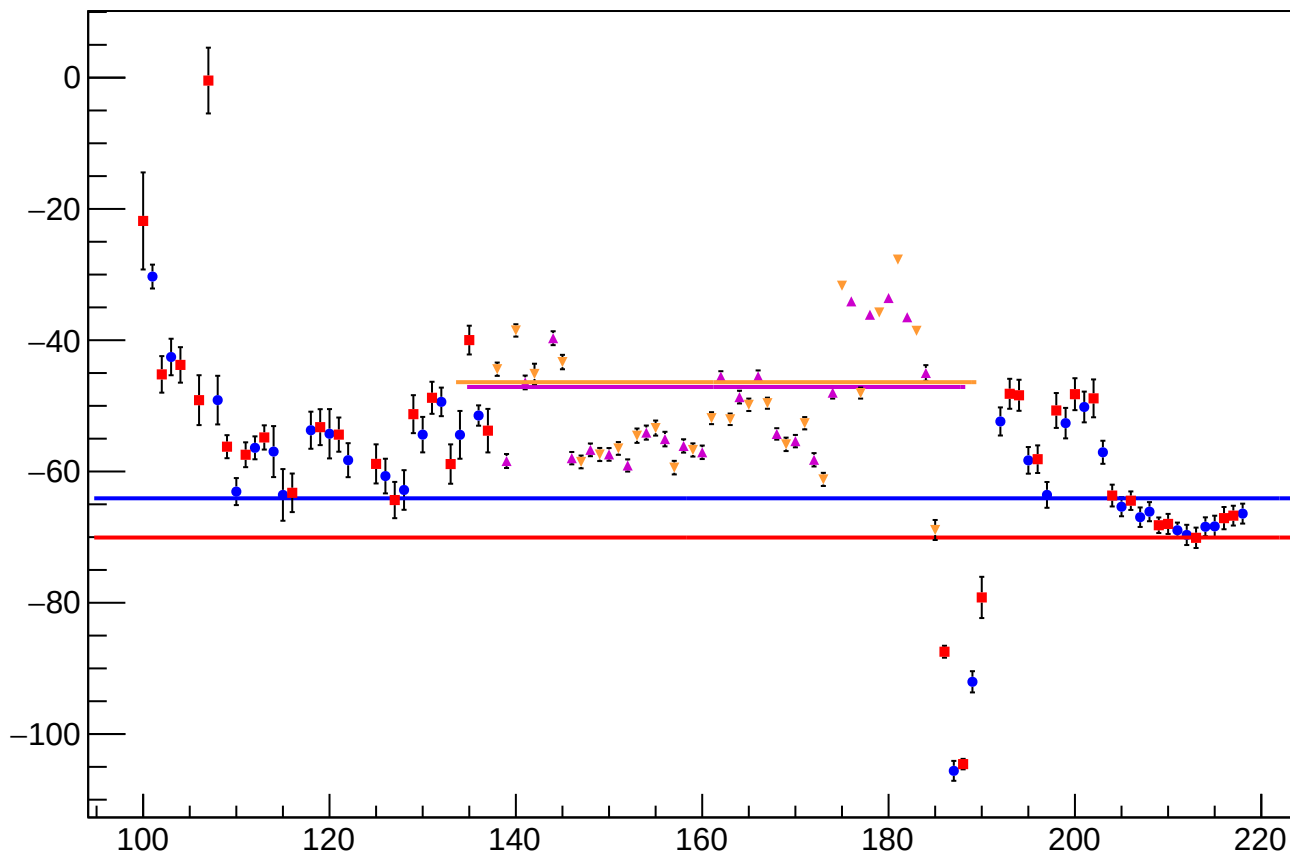
Right: -0.928 ± 0.213 χ^2/NDF : 392.4/65

In: 2.359 ± 0.134 χ^2/NDF : 1662.2/54

Out: 2.294 ± 0.133 χ^2/NDF : 1772.4/57

All: 2.326 ± 0.094 χ^2/NDF : 3434.7/112

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.086 ± 0.339 $\chi^2/\text{NDF}: 1821.4/31$

Left Out: -46.392 ± 0.187 $\chi^2/\text{NDF}: 3286.7/23$

Right Out: -70.061 ± 0.320 $\chi^2/\text{NDF}: 3741.1/33$

Left In: -47.128 ± 0.187 $\chi^2/\text{NDF}: 2516.0/22$

Left: -46.759 ± 0.132 $\chi^2/\text{NDF}: 5810.5/46$

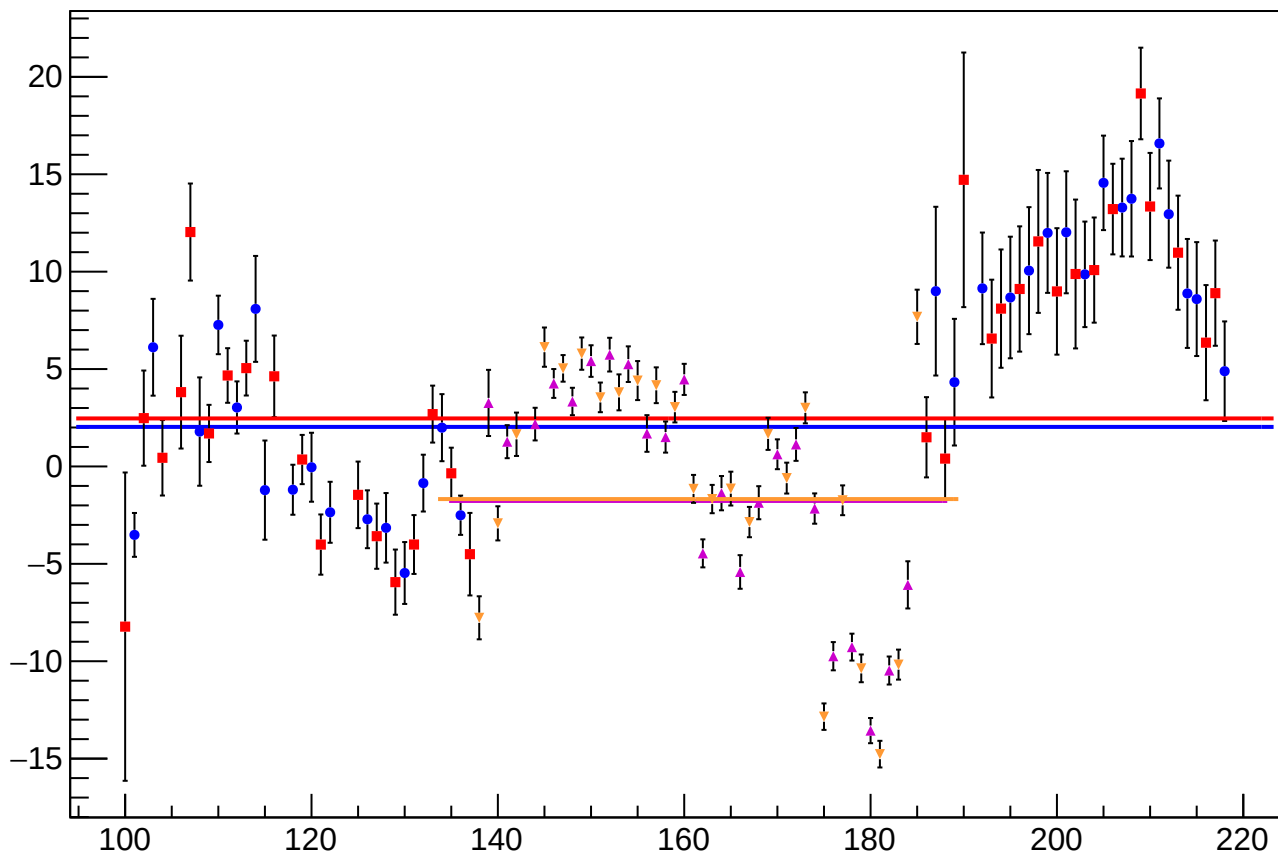
Right: -67.239 ± 0.233 $\chi^2/\text{NDF}: 5726.7/65$

In: -51.095 ± 0.164 $\chi^2/\text{NDF}: 6257.4/54$

Out: -52.384 ± 0.161 $\chi^2/\text{NDF}: 11102.1/57$

All: -51.750 ± 0.115 $\chi^2/\text{NDF}: 17390.9/112$

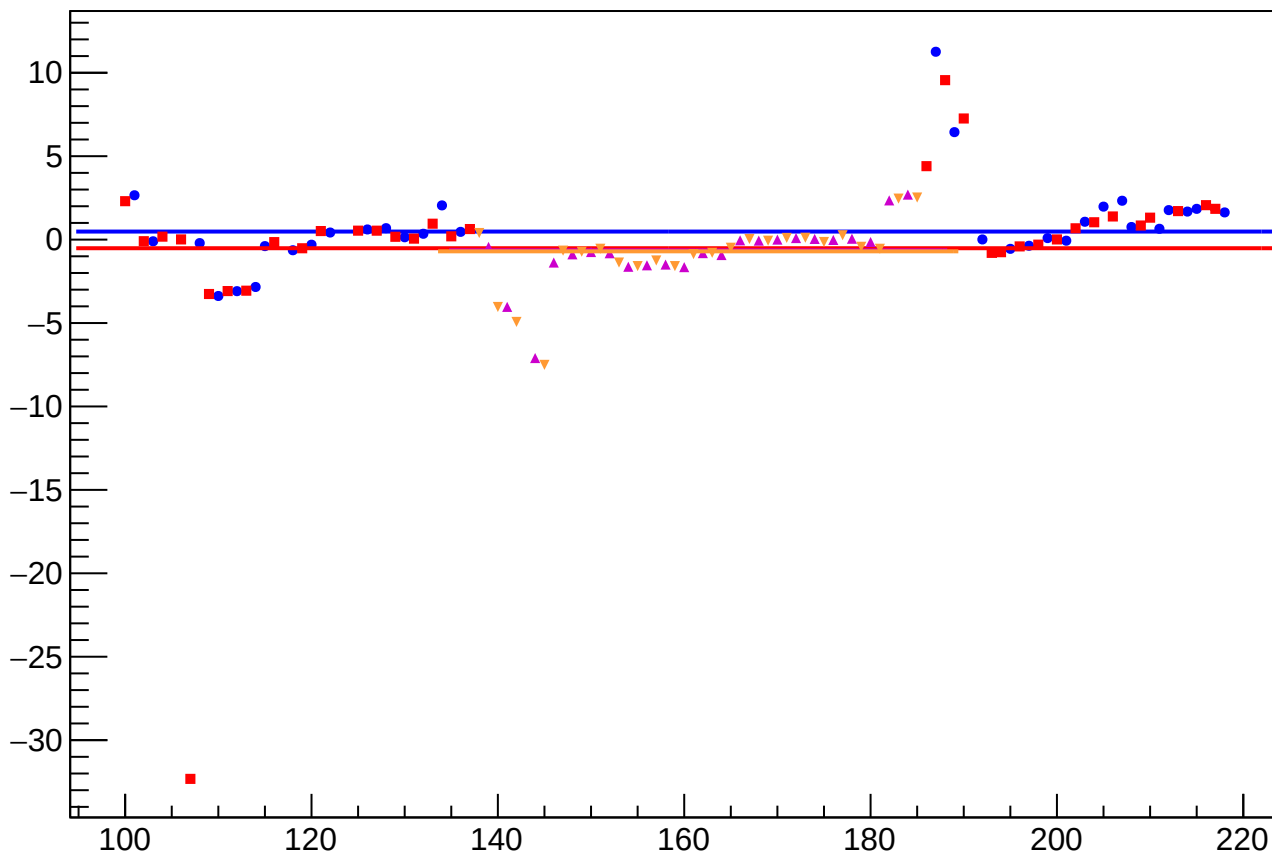
reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.030 ± 0.340 $\chi^2/\text{NDF}: 305.9/31$
 Left Out: -1.675 ± 0.167 $\chi^2/\text{NDF}: 1483.8/23$
 Right Out: 2.465 ± 0.347 $\chi^2/\text{NDF}: 262.1/33$
 Left In: -1.771 ± 0.169 $\chi^2/\text{NDF}: 1251.3/22$

Left: -1.723 ± 0.119 $\chi^2/\text{NDF}: 2735.2/46$
 Right: 2.243 ± 0.243 $\chi^2/\text{NDF}: 568.7/65$
 In: -1.020 ± 0.151 $\chi^2/\text{NDF}: 1657.2/54$
 Out: -0.898 ± 0.151 $\chi^2/\text{NDF}: 1861.3/57$
 All: -0.958 ± 0.107 $\chi^2/\text{NDF}: 3518.8/112$

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.483+/-0.017 χ^2/NDF : 10291.8/31

Left Out: -0.702+/-0.008 χ^2/NDF : 53834.9/23

Right Out: -0.516+/-0.017 χ^2/NDF : 94500.2/33

Left In: -0.644+/-0.008 χ^2/NDF : 44169.2/22

Left: -0.673+/-0.005 χ^2/NDF : 98032.6/46

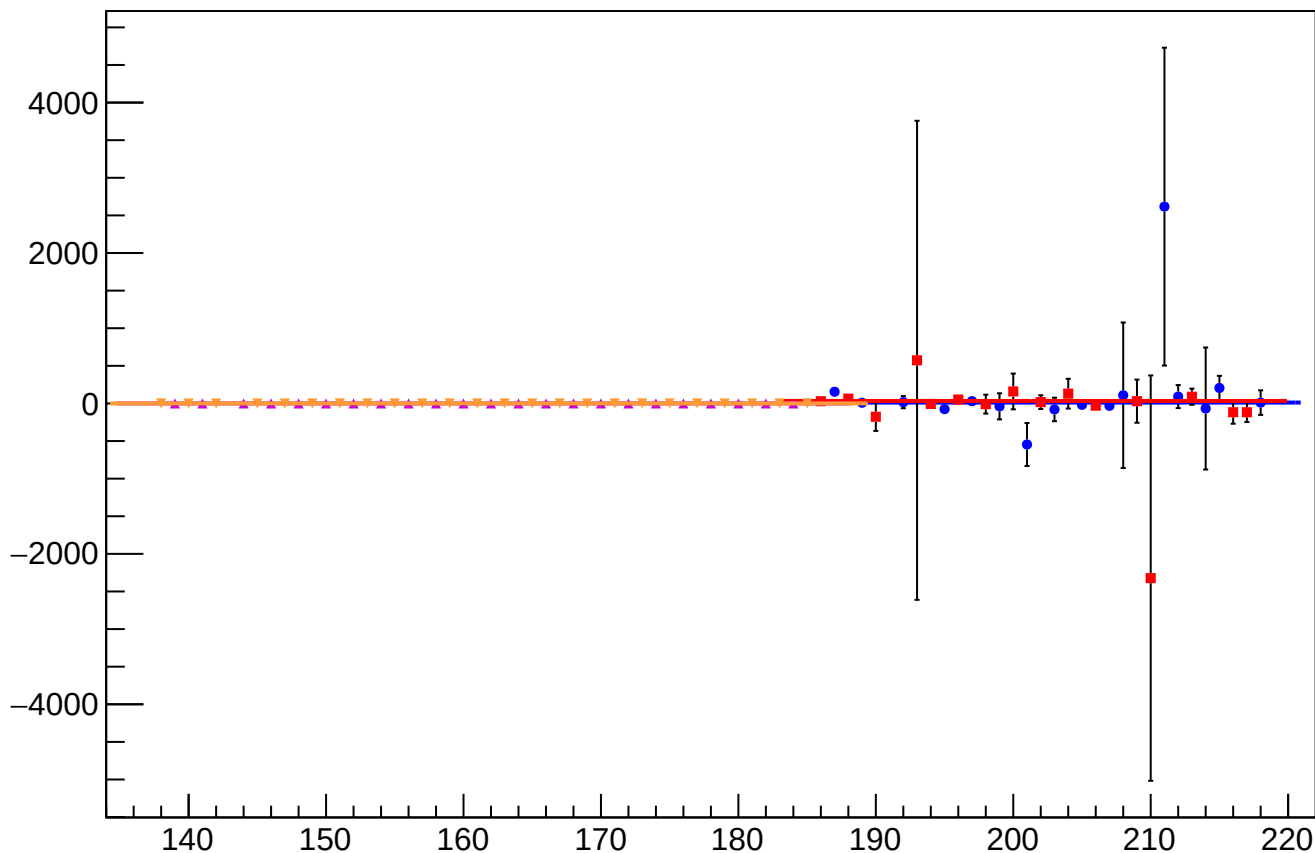
Right: -0.012+/-0.012 χ^2/NDF : 106477.4/65

In: -0.456+/-0.007 χ^2/NDF : 58067.8/54

Out: -0.671+/-0.007 χ^2/NDF : 148431.3/57

All: -0.564+/-0.005 χ^2/NDF : 206975.4/112

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.654+/-15.007 χ^2/NDF : 22.7/15

Left Out: -0.037+/-0.018 χ^2/NDF : 35.4/23

Right Out: 32.972+/-9.587 χ^2/NDF : 9.9/15

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.024+/-0.013 χ^2/NDF : 71.7/46

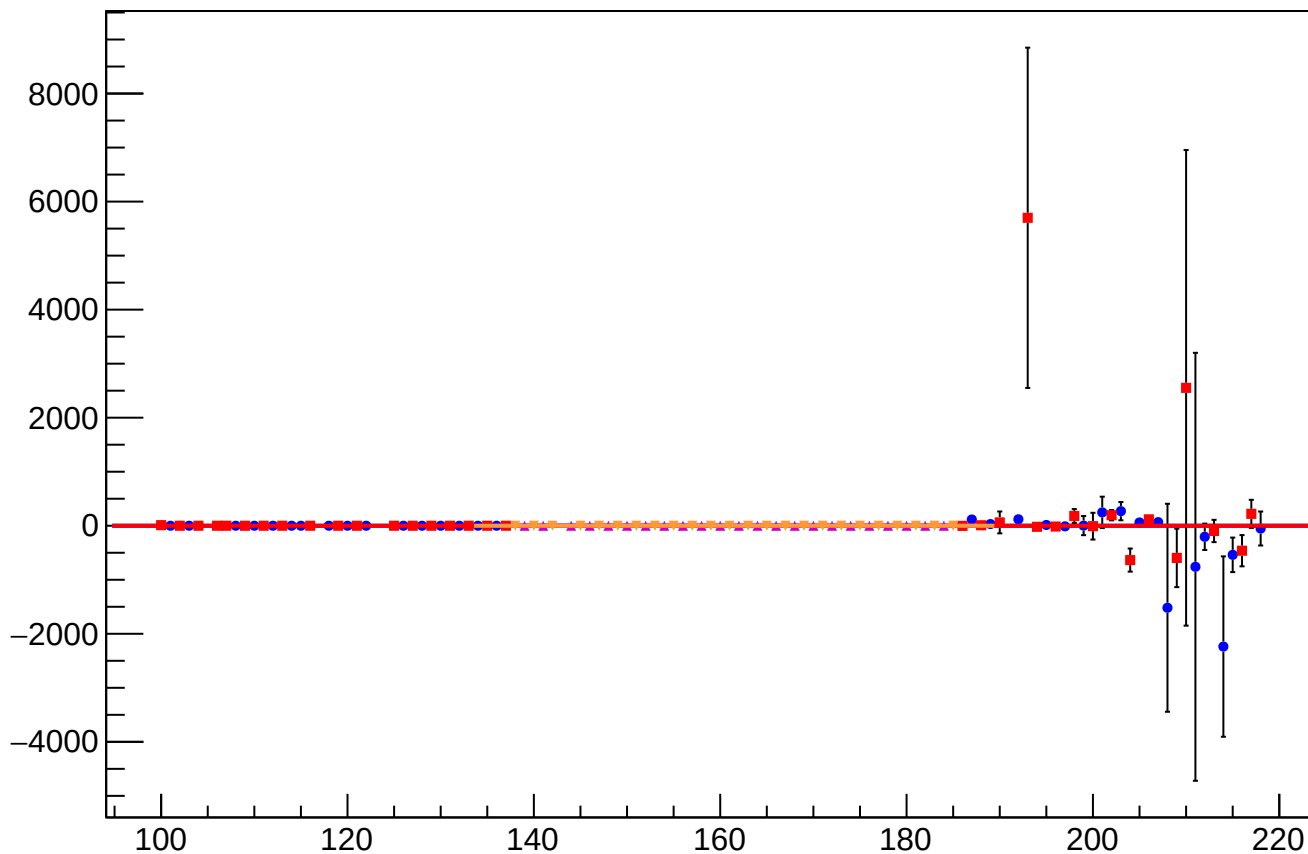
Right: 26.793+/-8.079 χ^2/NDF : 34.0/31

In: -0.010+/-0.018 χ^2/NDF : 58.4/38

Out: -0.037+/-0.018 χ^2/NDF : 57.2/39

All: -0.024+/-0.013 χ^2/NDF : 116.7/78

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 χ^2/NDF : 29.5/31

Left Out: -0.073 ± 0.014 χ^2/NDF : 27.8/23

Right Out: -0.088 ± 0.025 χ^2/NDF : 39.8/33

Left In: -0.064 ± 0.014 χ^2/NDF : 41.1/22

Left: -0.068 ± 0.010 χ^2/NDF : 69.1/46

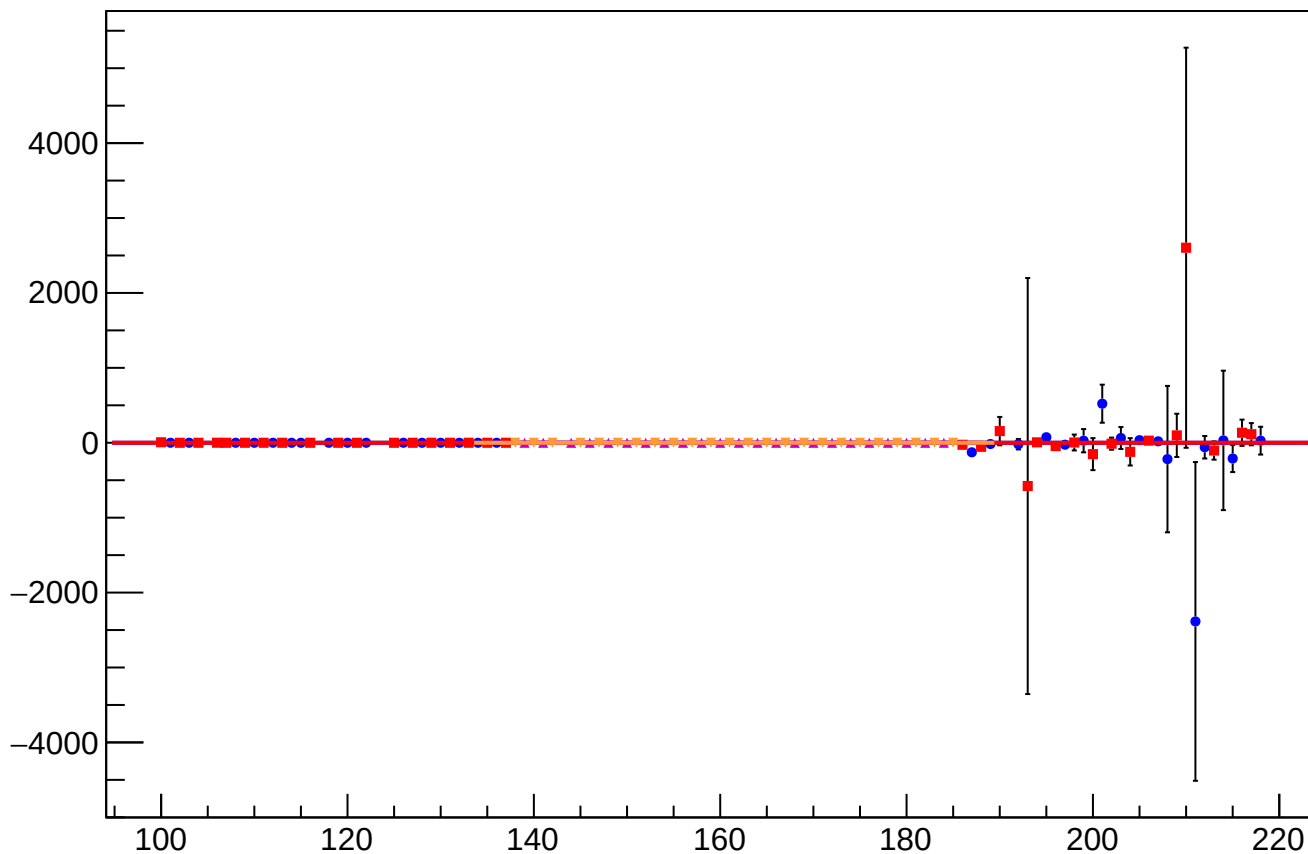
Right: -0.048 ± 0.017 χ^2/NDF : 74.1/65

In: -0.050 ± 0.012 χ^2/NDF : 74.0/54

Out: -0.076 ± 0.012 χ^2/NDF : 67.9/57

All: -0.063 ± 0.009 χ^2/NDF : 144.2/112

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 33.0/31

Left Out: 0.035+/-0.018 χ^2/NDF :32.2/23

Right Out: 0.031+/-0.045 χ^2/NDF : 33.6/33

Left In: -0.009+/-0.018 χ^2/NDF :36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.0/46

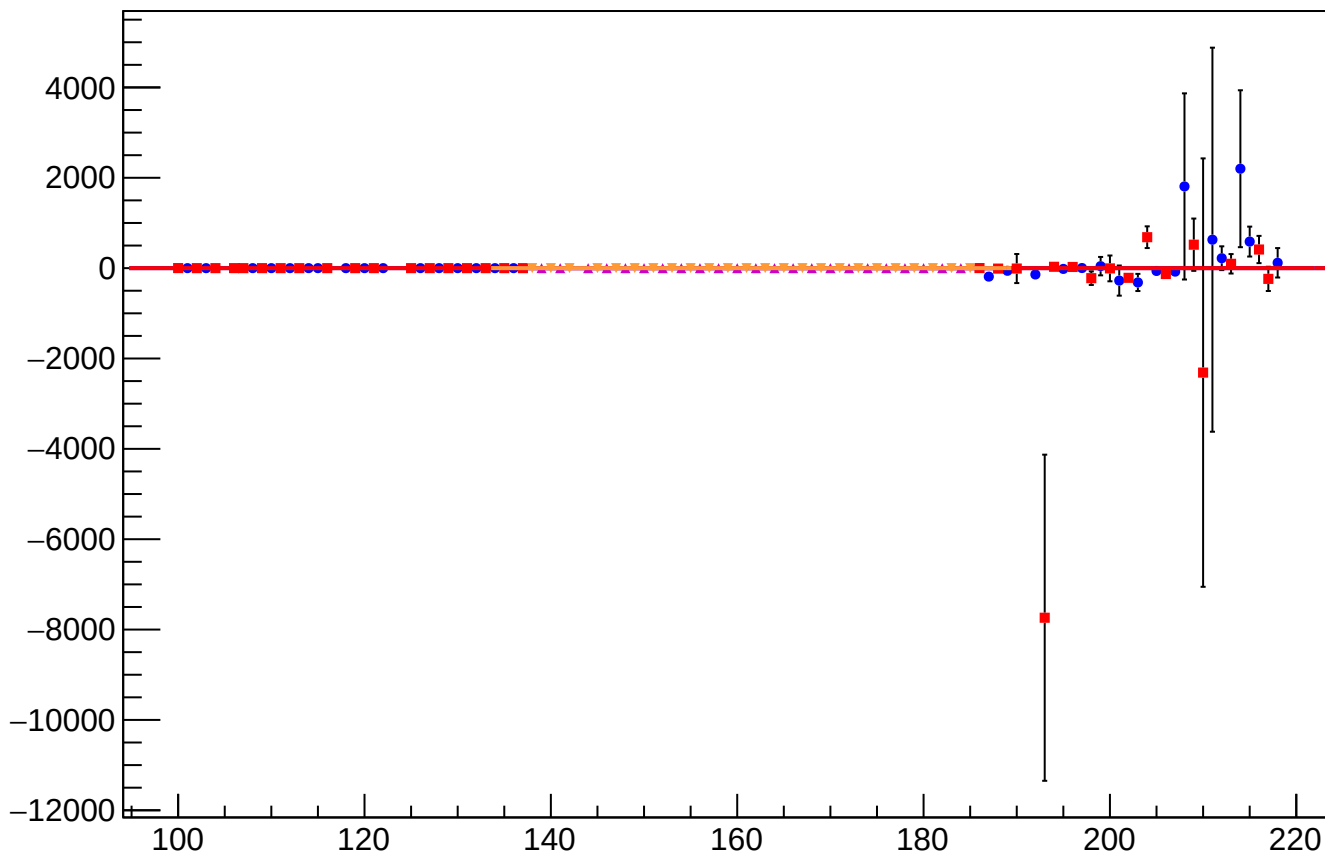
Right: 0.023+/-0.031 χ^2/NDF : 66.7/65

In: -0.005+/-0.017 χ^2/NDF :70.1/54

Out: 0.035+/-0.017 χ^2/NDF :65.8/57

All: 0.015+/-0.012 χ^2/NDF : 138.8/112

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 31.1/31

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 34.6/33

Left In: 0.070 $\pm$ 0.016 χ^2 /NDF:44.8/22

Left: 0.078 $\pm$ 0.011 χ^2 /NDF: 73.1/46

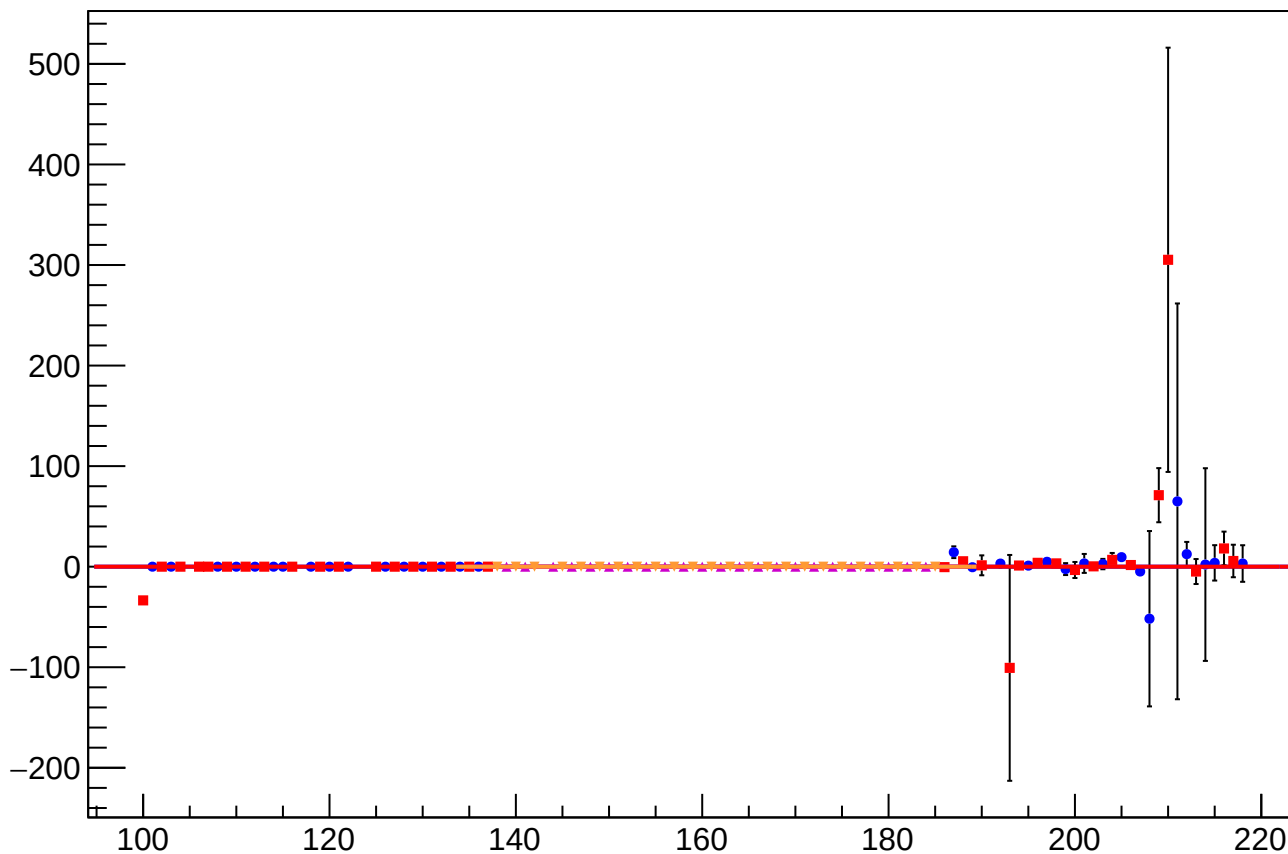
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 71.7/65

In: 0.053 $\pm$ 0.014 χ^2 /NDF:79.7/54

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:62.7/57

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 145.9/112

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 47.8/31

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26532.1/33

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

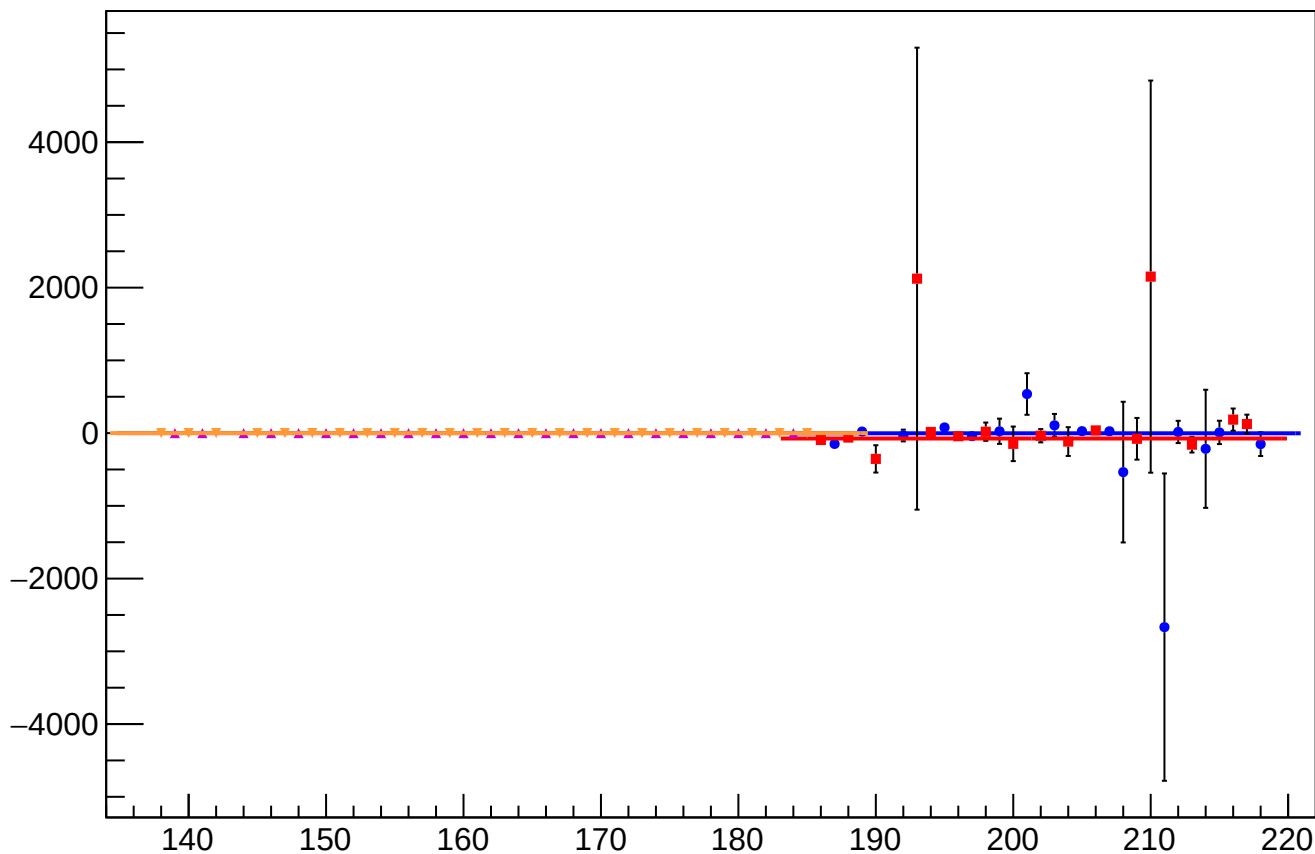
Right: -0.006 ± 0.001 χ^2/NDF : 26580.0/65

In: -0.001 ± 0.001 χ^2/NDF : 81.9/54

Out: -0.001 ± 0.001 χ^2/NDF : 26570.8/57

All: -0.001 ± 0.000 χ^2/NDF : 26652.7/112

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.432 ± 15.002 $\chi^2/\text{NDF}: 22.7/15$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -74.064 ± 9.589 $\chi^2/\text{NDF}: 21.9/15$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

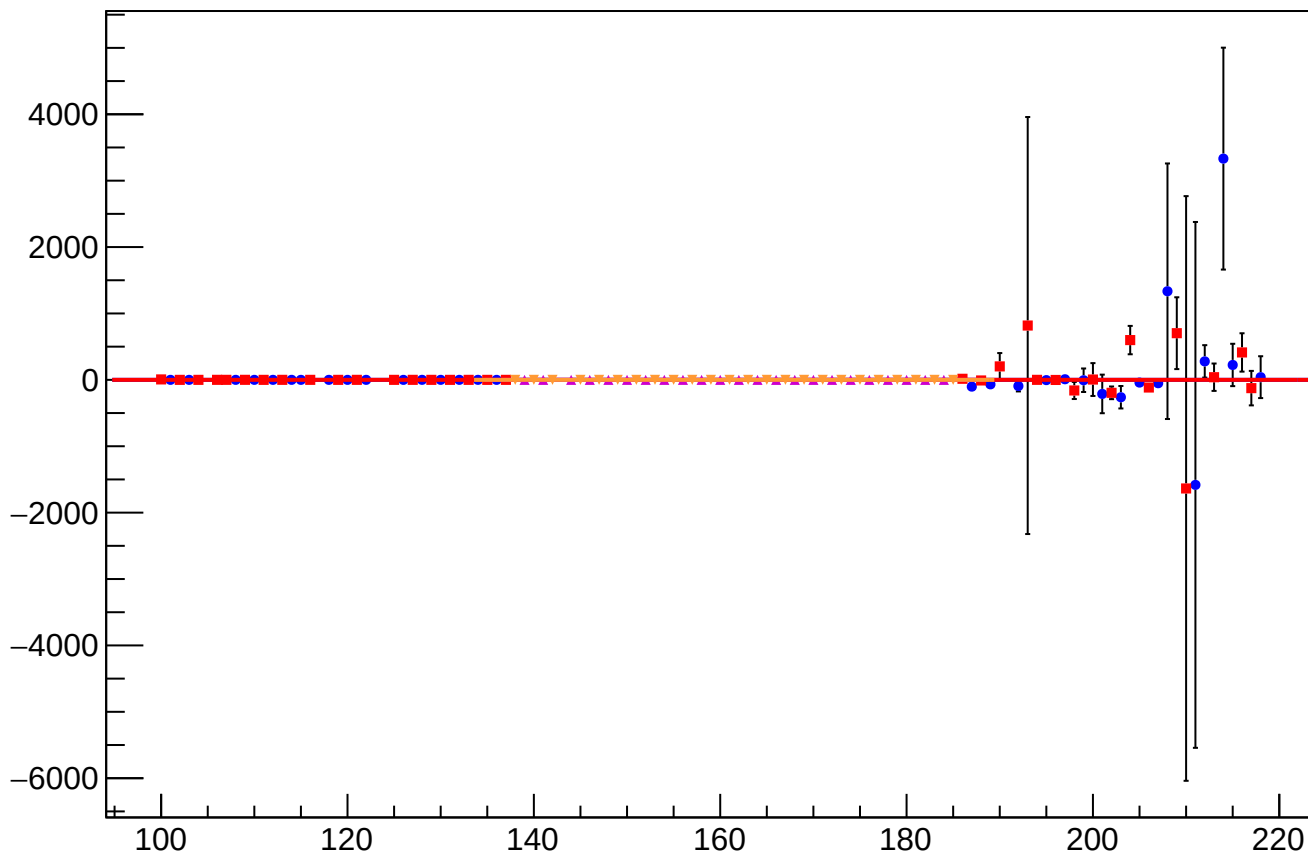
Right: -53.288 ± 8.080 $\chi^2/\text{NDF}: 60.7/31$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 57.8/38$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 118.8/39$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 179.5/78$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 43.7/31

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 51.9/33

Left In: 0.005 $\pm$ 0.014 χ^2 /NDF:49.6/22

Left: -0.003 $\pm$ 0.010 χ^2 /NDF: 79.7/46

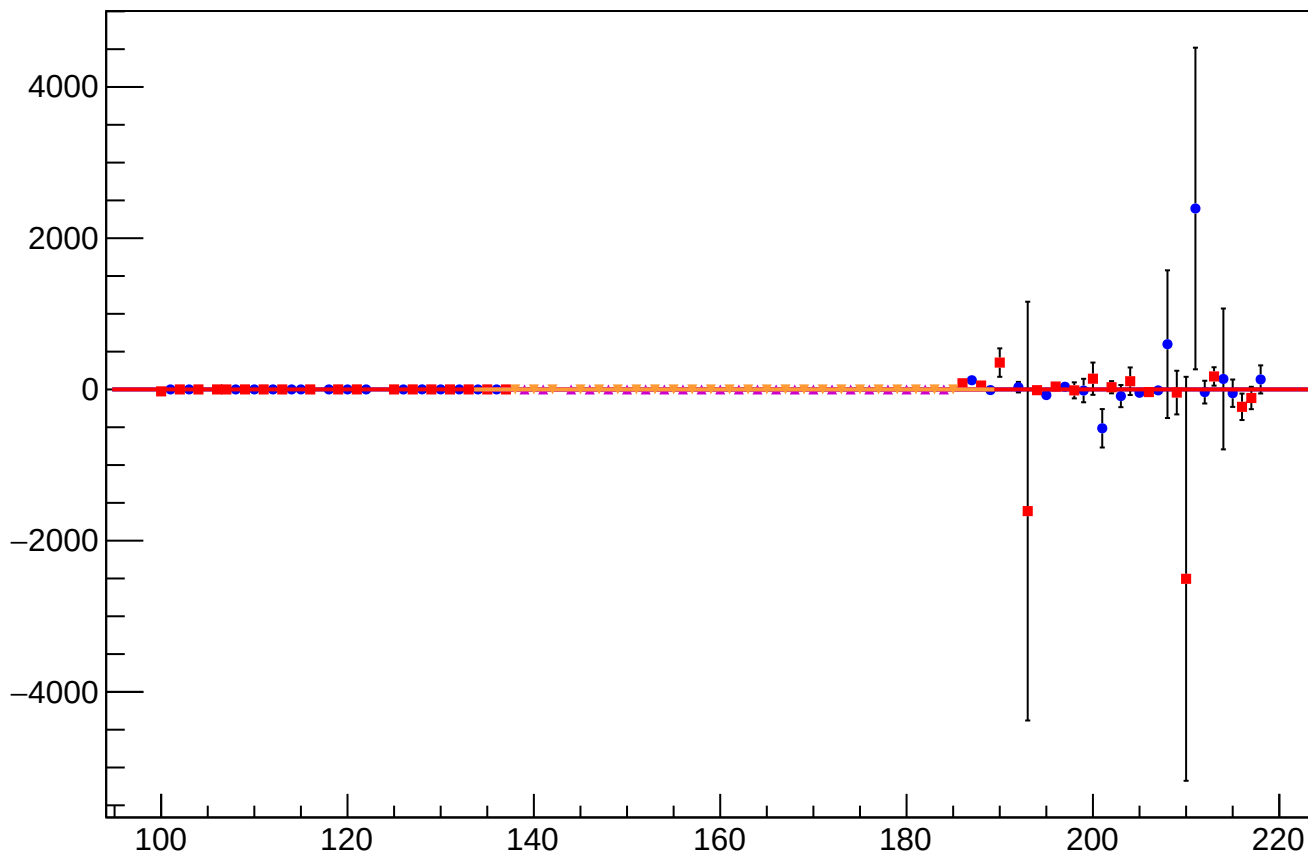
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 96.3/65

In: 0.006 $\pm$ 0.012 χ^2 /NDF:93.3/54

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:84.2/57

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 177.5/112

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157+/-0.043 χ^2/NDF : 52.5/31

Left Out: 0.048+/-0.018 χ^2/NDF :35.4/23

Right Out: 0.197+/-0.045 χ^2/NDF : 113.8/33

Left In: 0.020+/-0.018 χ^2/NDF :35.8/22

Left: 0.034+/-0.013 χ^2/NDF : 72.4/46

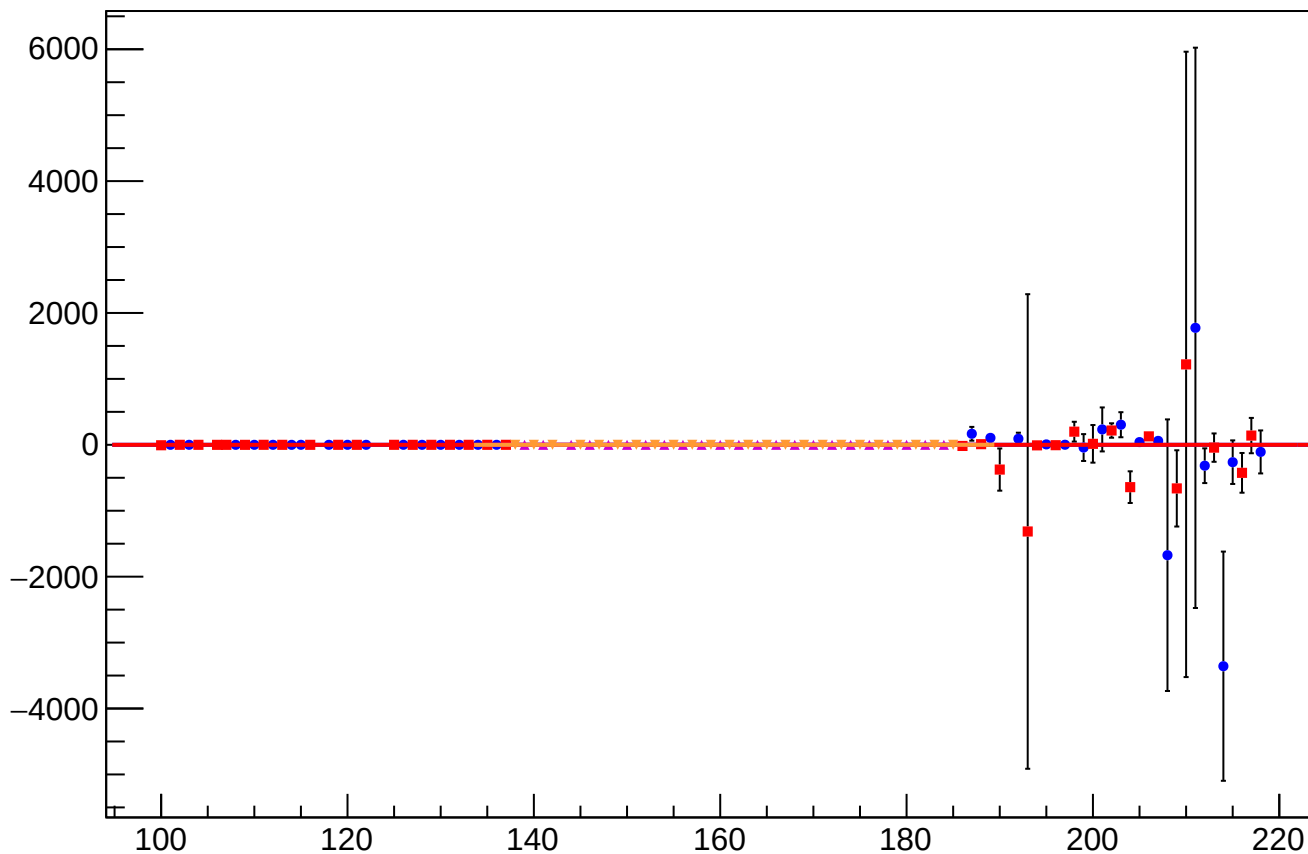
Right: 0.176+/-0.031 χ^2/NDF : 166.7/65

In: 0.040+/-0.017 χ^2/NDF :96.9/54

Out: 0.068+/-0.017 χ^2/NDF :158.7/57

All: 0.054+/-0.012 χ^2/NDF : 257.0/112

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 $\chi^2/\text{NDF}: 43.6/31$

Left Out: 0.022 ± 0.016 $\chi^2/\text{NDF}: 33.3/23$

Right Out: -0.046 ± 0.029 $\chi^2/\text{NDF}: 48.3/33$

Left In: 0.006 ± 0.016 $\chi^2/\text{NDF}: 50.1/22$

Left: 0.014 ± 0.011 $\chi^2/\text{NDF}: 83.9/46$

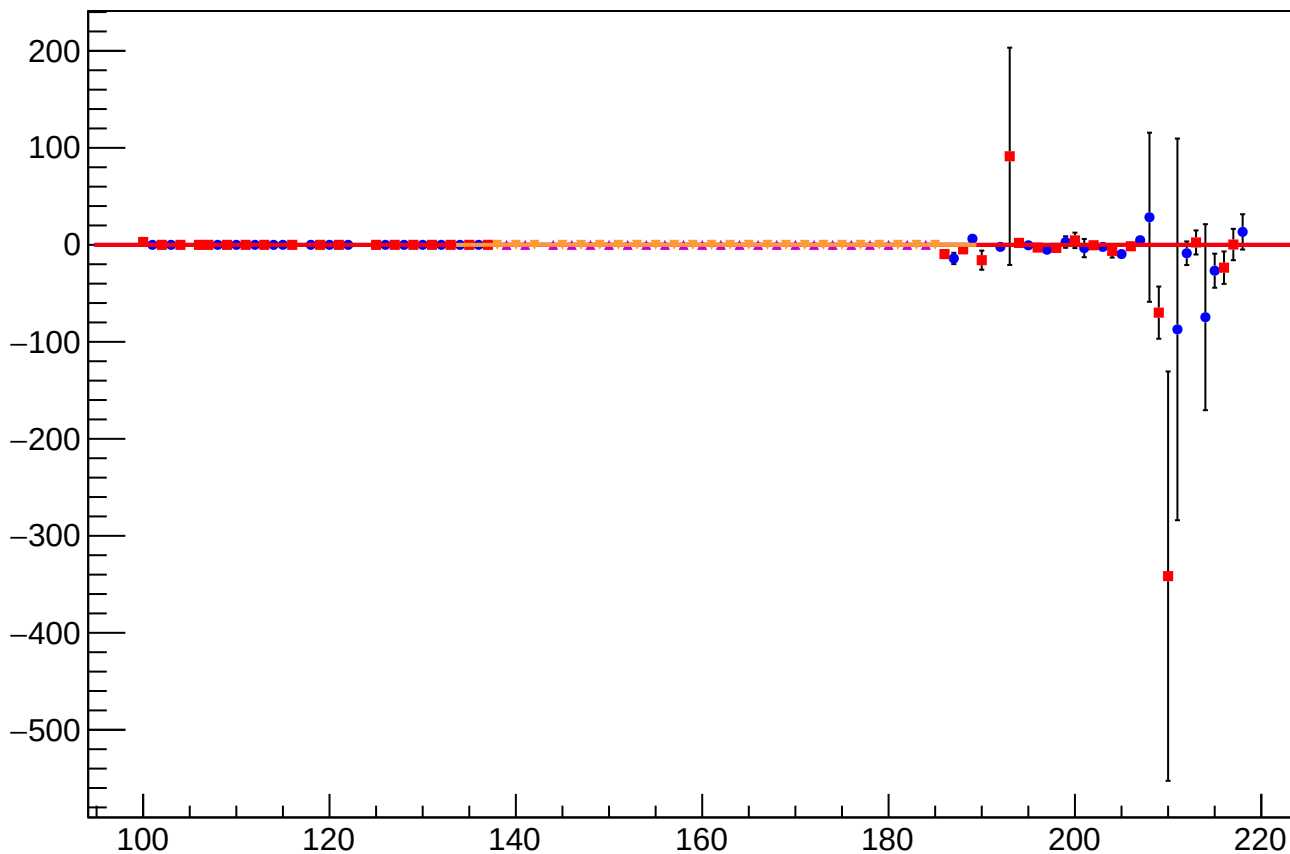
Right: -0.027 ± 0.020 $\chi^2/\text{NDF}: 92.7/65$

In: 0.002 ± 0.014 $\chi^2/\text{NDF}: 94.0/54$

Out: 0.005 ± 0.014 $\chi^2/\text{NDF}: 85.9/57$

All: 0.004 ± 0.010 $\chi^2/\text{NDF}: 179.9/112$

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 61.9/31

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.0/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 226.2/33

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 69.4/46

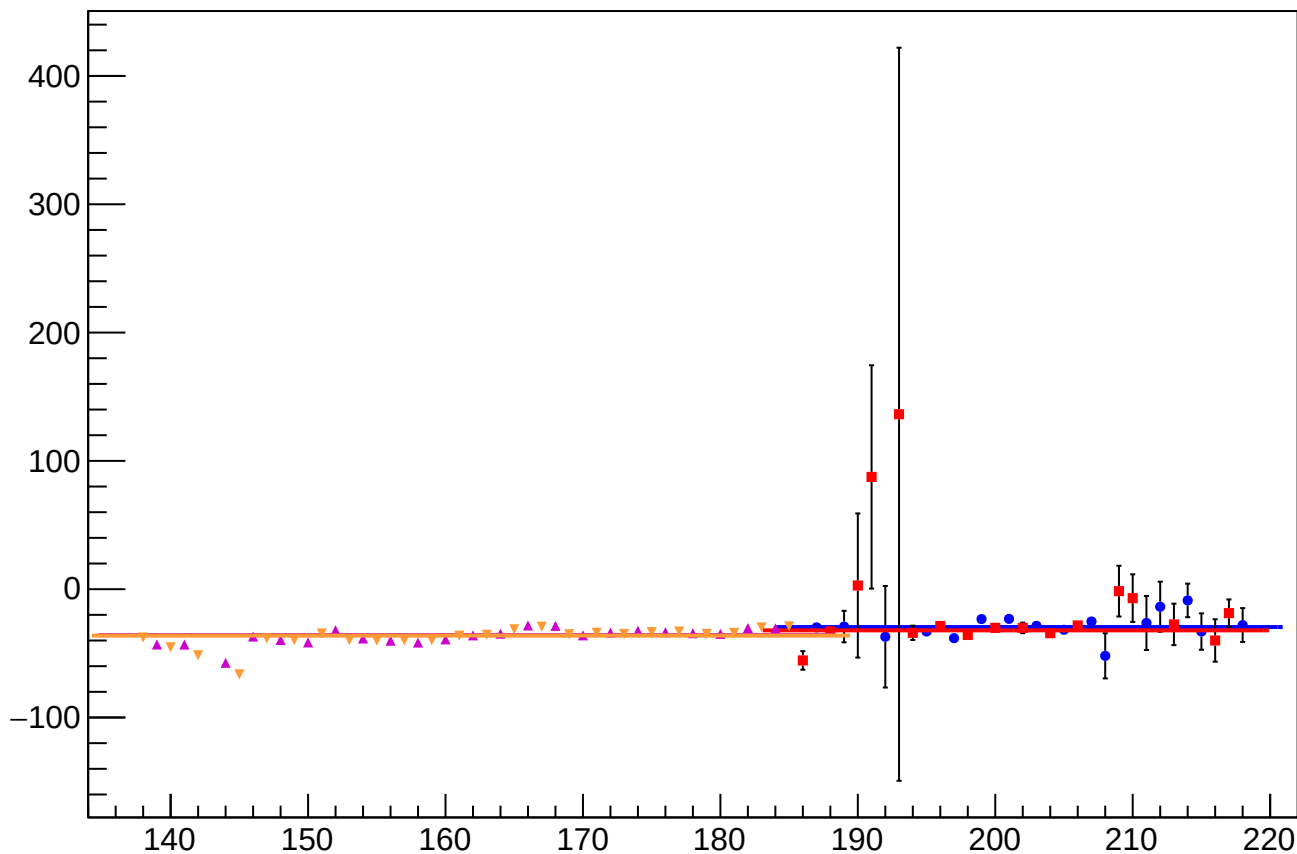
Right: -0.006 ± 0.001 χ^2/NDF : 288.1/65

In: -0.008 ± 0.001 χ^2/NDF : 101.6/54

Out: -0.008 ± 0.001 χ^2/NDF : 260.3/57

All: -0.008 ± 0.000 χ^2/NDF : 362.1/112

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.510 ± 0.851 χ^2/NDF : 29.0/15

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -32.085 ± 0.803 χ^2/NDF : 26.9/16

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

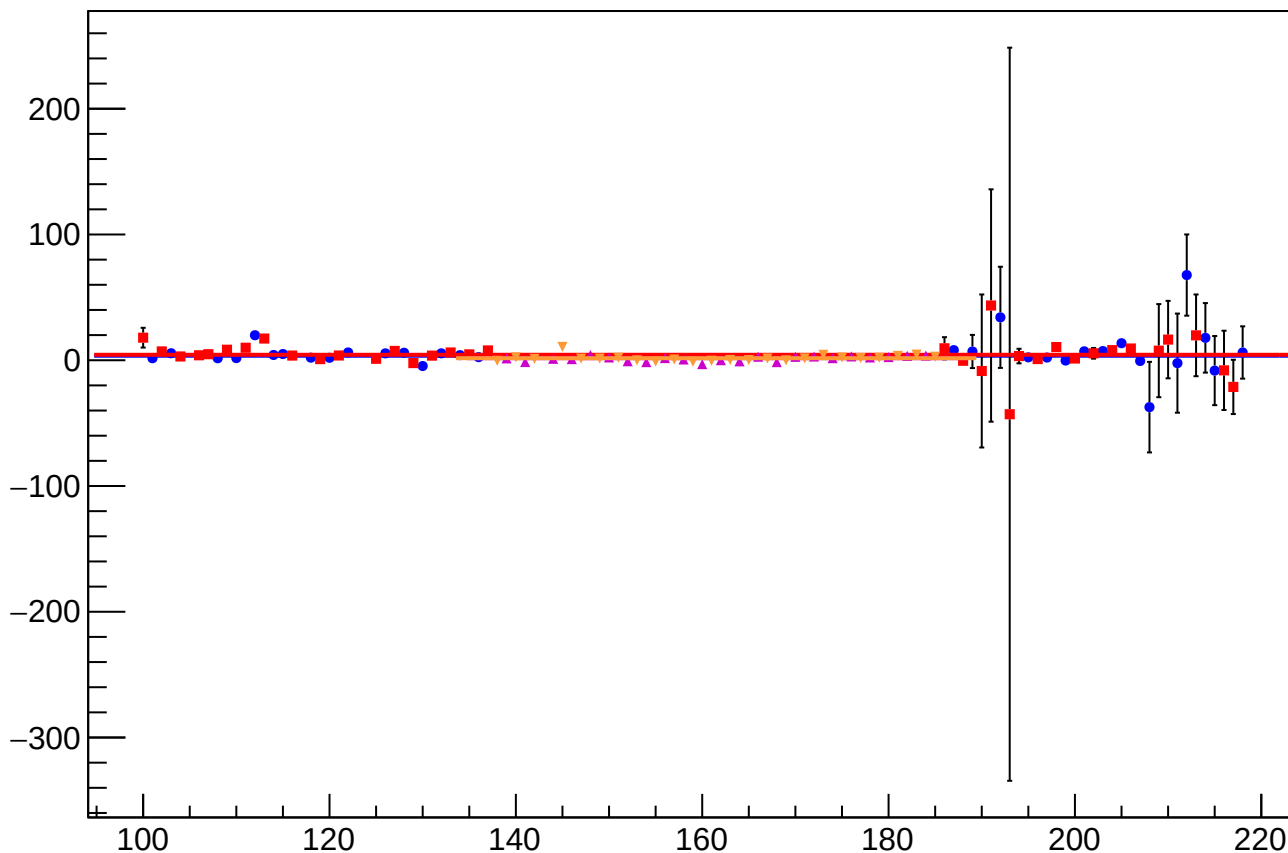
Right: -30.873 ± 0.584 χ^2/NDF : 60.7/32

In: -35.478 ± 0.187 χ^2/NDF : 934.7/38

Out: -35.902 ± 0.187 χ^2/NDF : 1165.7/40

All: -35.690 ± 0.132 χ^2/NDF : 2103.0/79

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.603 $\pm$ 0.217 χ^2 /NDF: 462.6/31

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.347 $\pm$ 0.221 χ^2 /NDF: 370.9/34

Left In: 1.641 $\pm$ 0.150 χ^2 /NDF:163.2/22

Left: 1.638 $\pm$ 0.105 χ^2 /NDF: 329.7/46

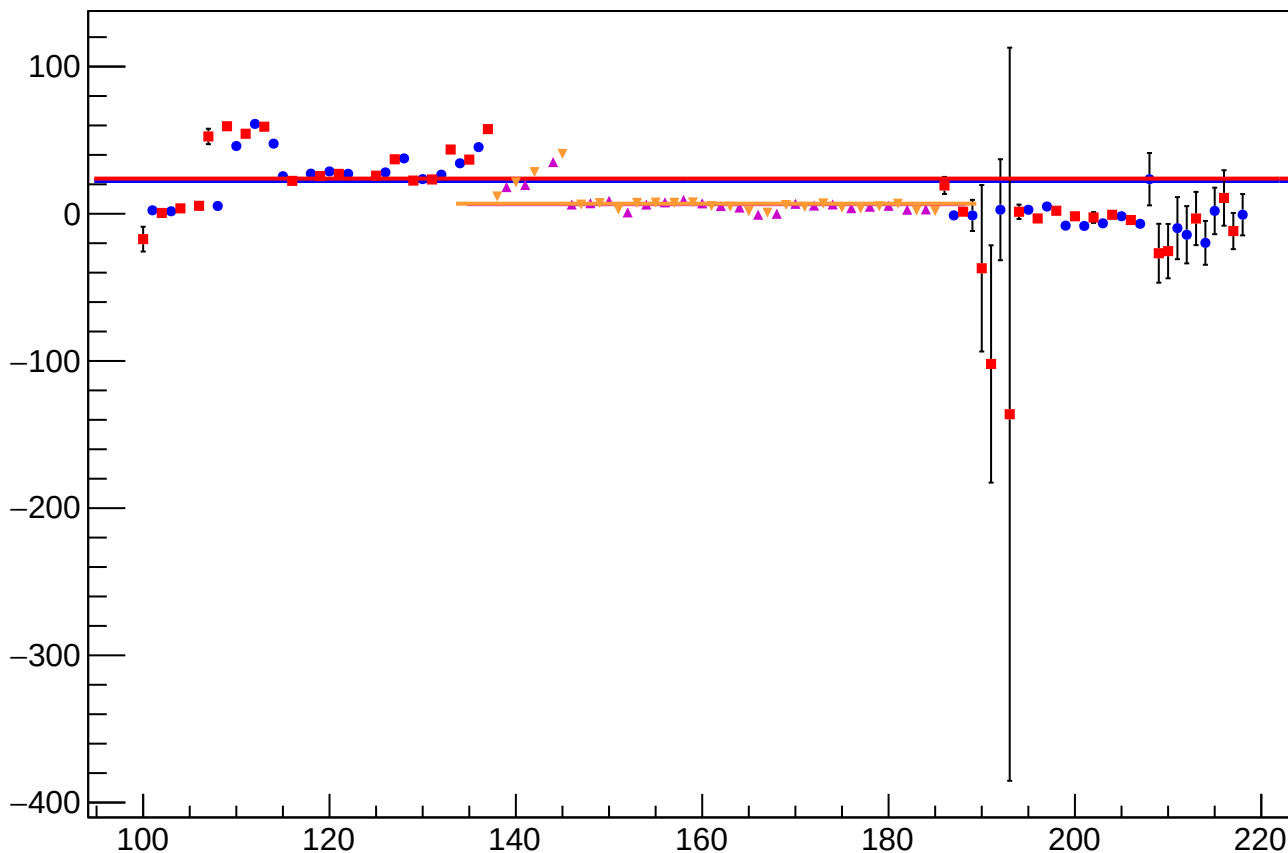
Right: 3.968 $\pm$ 0.155 χ^2 /NDF: 839.3/66

In: 2.274 $\pm$ 0.123 χ^2 /NDF:681.3/54

Out: 2.475 $\pm$ 0.123 χ^2 /NDF:641.8/58

All: 2.374 $\pm$ 0.087 χ^2 /NDF: 1324.5/113

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.272 ± 0.370 χ^2/NDF : 2824.3/31

Left Out: 6.866 ± 0.191 χ^2/NDF : 1295.7/23

Right Out: 23.899 ± 0.361 χ^2/NDF : 3308.4/34

Left In: 6.537 ± 0.190 χ^2/NDF : 1025.1/22

Left: 6.700 ± 0.135 χ^2/NDF : 2322.3/46

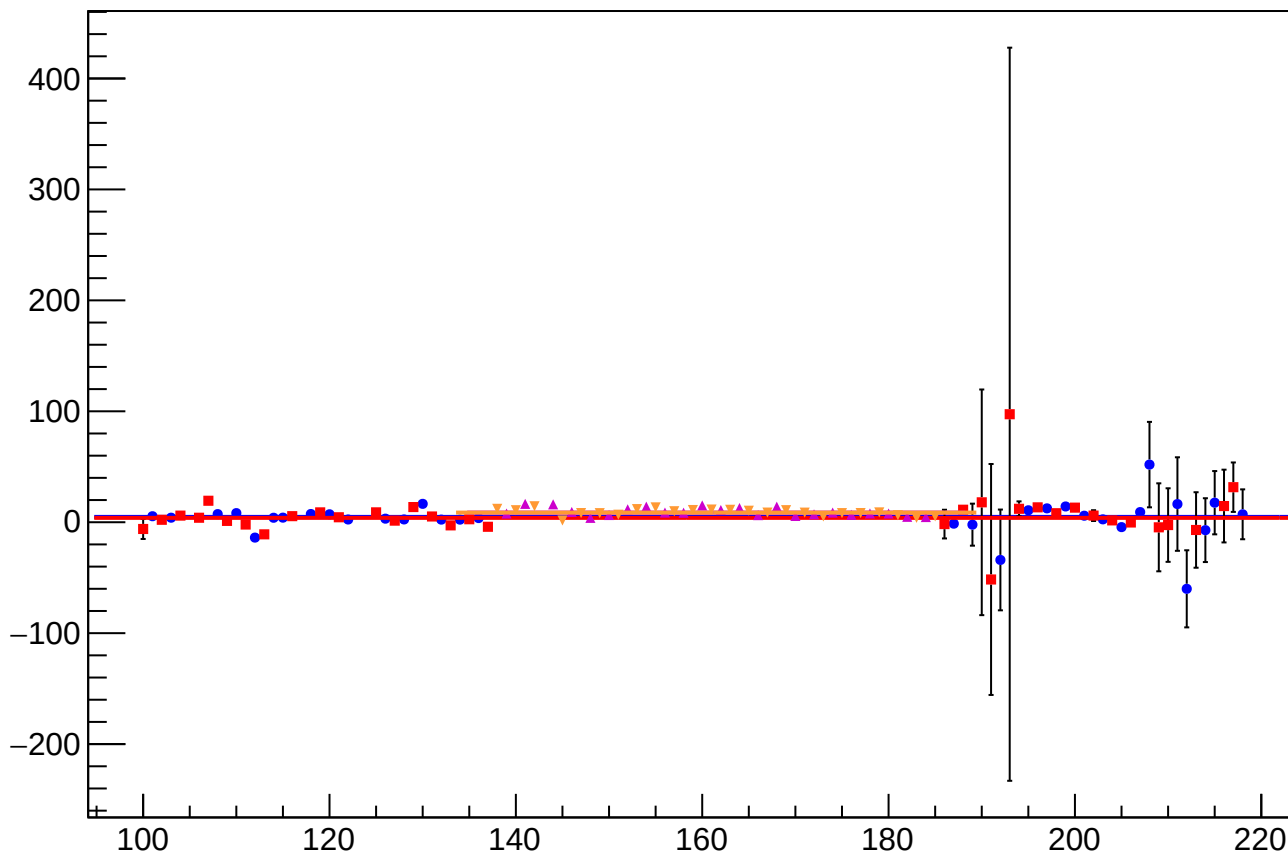
Right: 23.104 ± 0.258 χ^2/NDF : 6142.6/66

In: 9.837 ± 0.169 χ^2/NDF : 5282.4/54

Out: 10.596 ± 0.169 χ^2/NDF : 6338.7/58

All: 10.217 ± 0.120 χ^2/NDF : 11631.2/113

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.805 $\pm$ 0.250 χ^2 /NDF: 576.6/31

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.940 $\pm$ 0.254 χ^2 /NDF: 590.9/34

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF:436.7/22

Left: 8.681 $\pm$ 0.120 χ^2 /NDF: 677.7/46

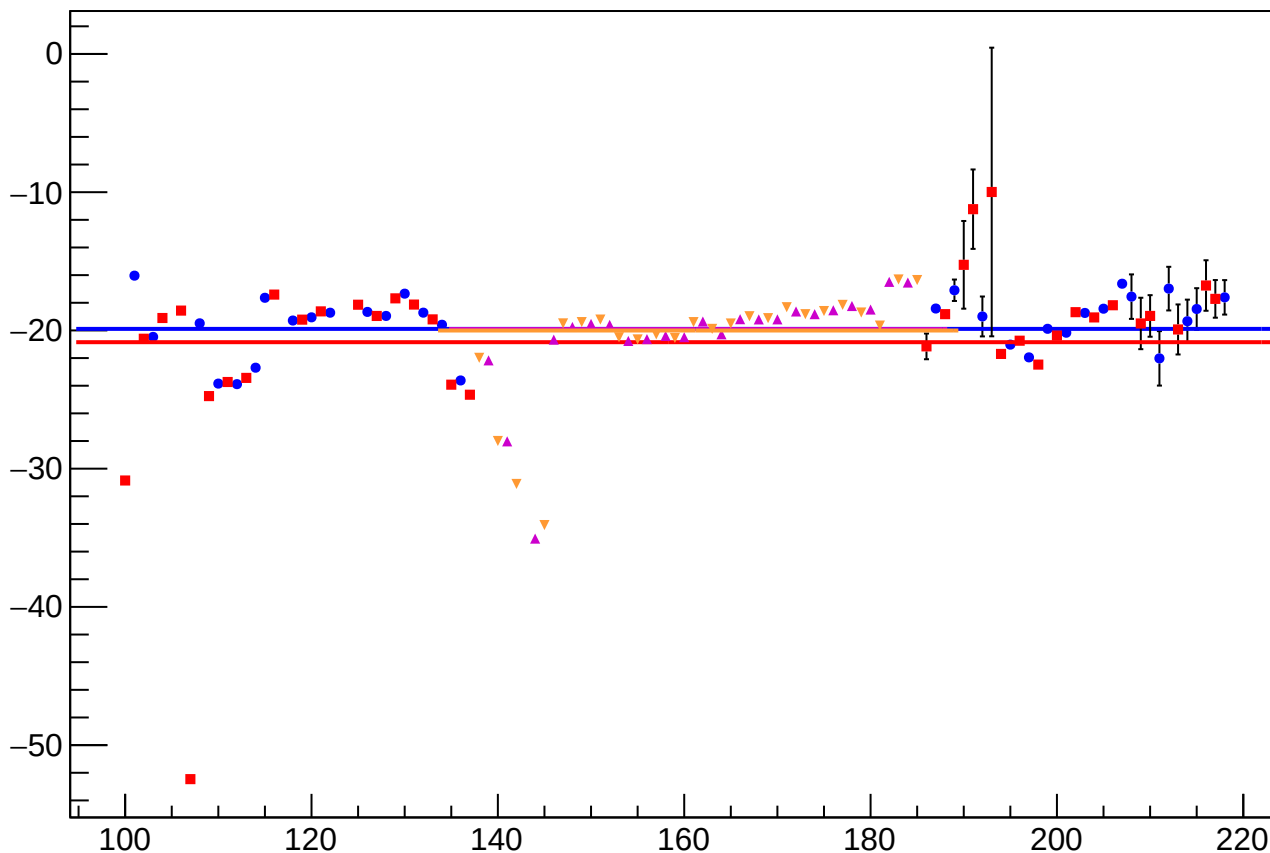
Right: 4.380 $\pm$ 0.178 χ^2 /NDF: 1173.4/66

In: 7.445 $\pm$ 0.141 χ^2 /NDF:1176.6/54

Out: 7.238 $\pm$ 0.141 χ^2 /NDF:1074.4/58

All: 7.341 $\pm$ 0.099 χ^2 /NDF: 2252.1/113

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.889 $\pm$ 0.015 χ^2 /NDF: 27152.1/31

Left Out: -20.006 $\pm$ 0.008 χ^2 /NDF:171763.9/23

Right Out: -20.851 $\pm$ 0.015 χ^2 /NDF: 95250.9/34

Left In: -19.898 $\pm$ 0.008 χ^2 /NDF:144191.9/22

Left: -19.951 $\pm$ 0.006 χ^2 /NDF: 316049.4/46

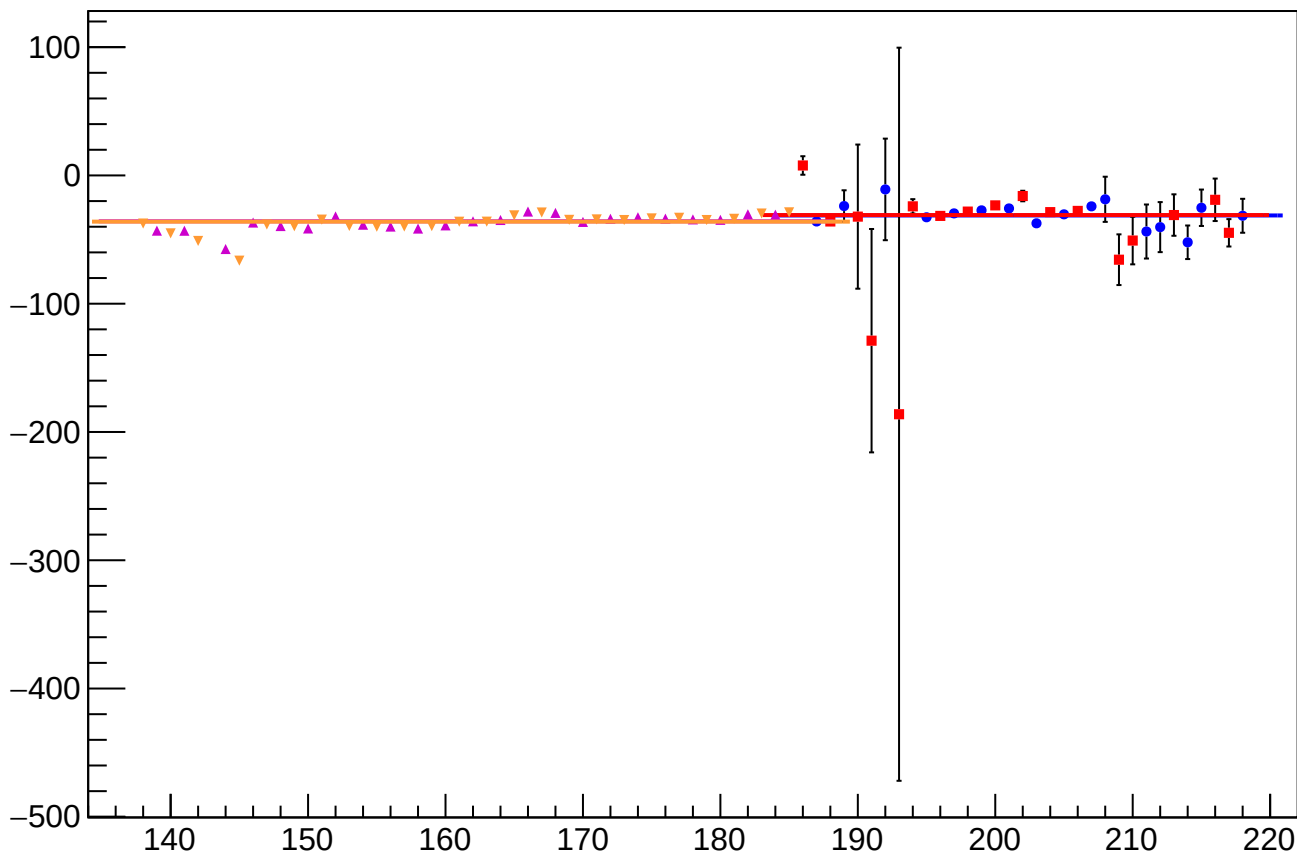
Right: -20.367 $\pm$ 0.011 χ^2 /NDF: 124491.9/66

In: -19.896 $\pm$ 0.007 χ^2 /NDF:171344.3/54

Out: -20.190 $\pm$ 0.007 χ^2 /NDF:269519.2/58

All: -20.042 $\pm$ 0.005 χ^2 /NDF: 441758.2/113

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.199 ± 0.854 χ^2/NDF : 31.3/15

Left Out: -36.031 ± 0.192 χ^2/NDF : 1121.3/23

Right Out: -30.903 ± 0.805 χ^2/NDF : 78.4/16

Left In: -35.766 ± 0.191 χ^2/NDF : 842.6/22

Left: -35.898 ± 0.135 χ^2/NDF : 1964.8/46

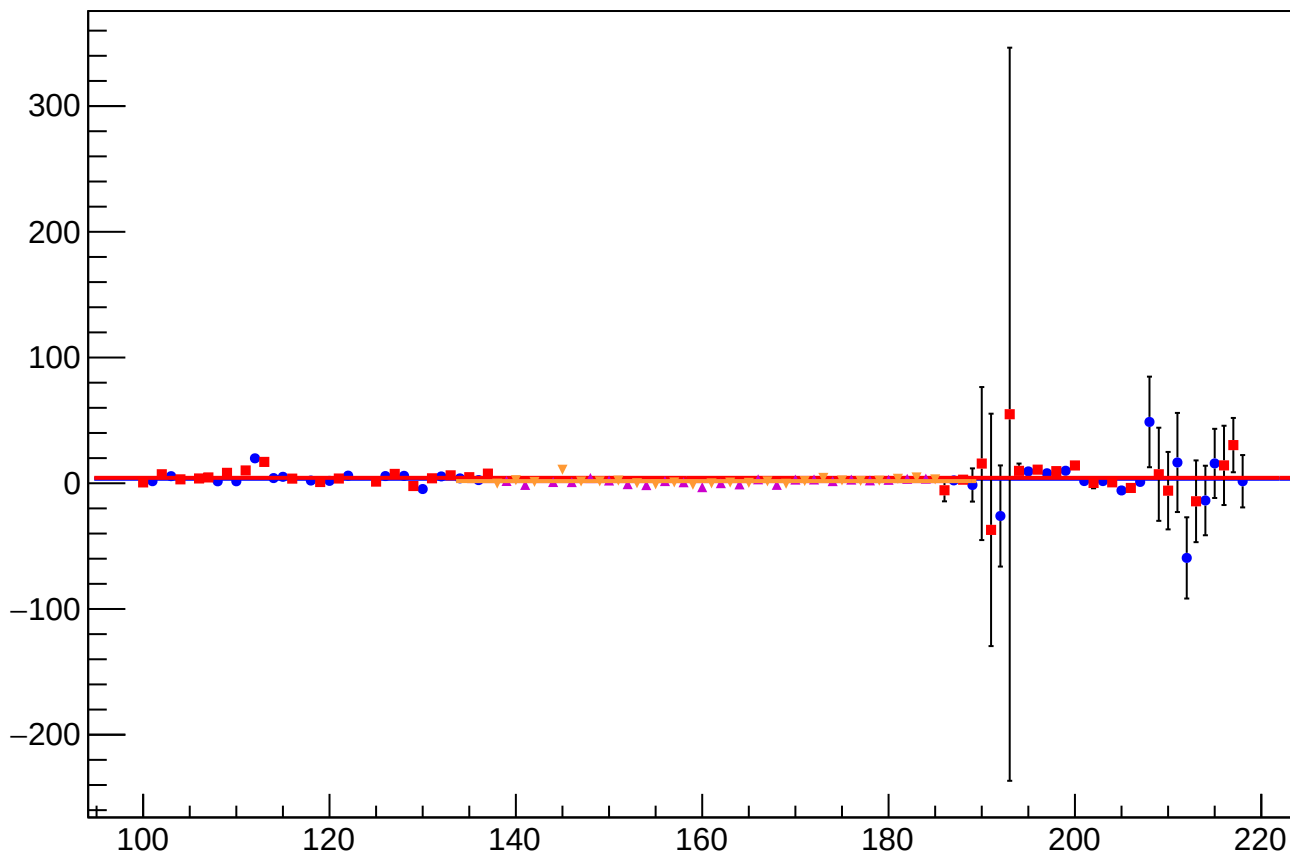
Right: -31.042 ± 0.586 χ^2/NDF : 109.8/32

In: -35.548 ± 0.187 χ^2/NDF : 901.2/38

Out: -35.755 ± 0.187 χ^2/NDF : 1238.1/40

All: -35.652 ± 0.132 χ^2/NDF : 2139.9/79

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.567 $\pm$ 0.217 χ^2 /NDF: 462.1/31

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.323 $\pm$ 0.217 χ^2 /NDF: 380.2/34

Left In: 1.705 $\pm$ 0.149 χ^2 /NDF:163.0/22

Left: 1.714 $\pm$ 0.105 χ^2 /NDF: 331.1/46

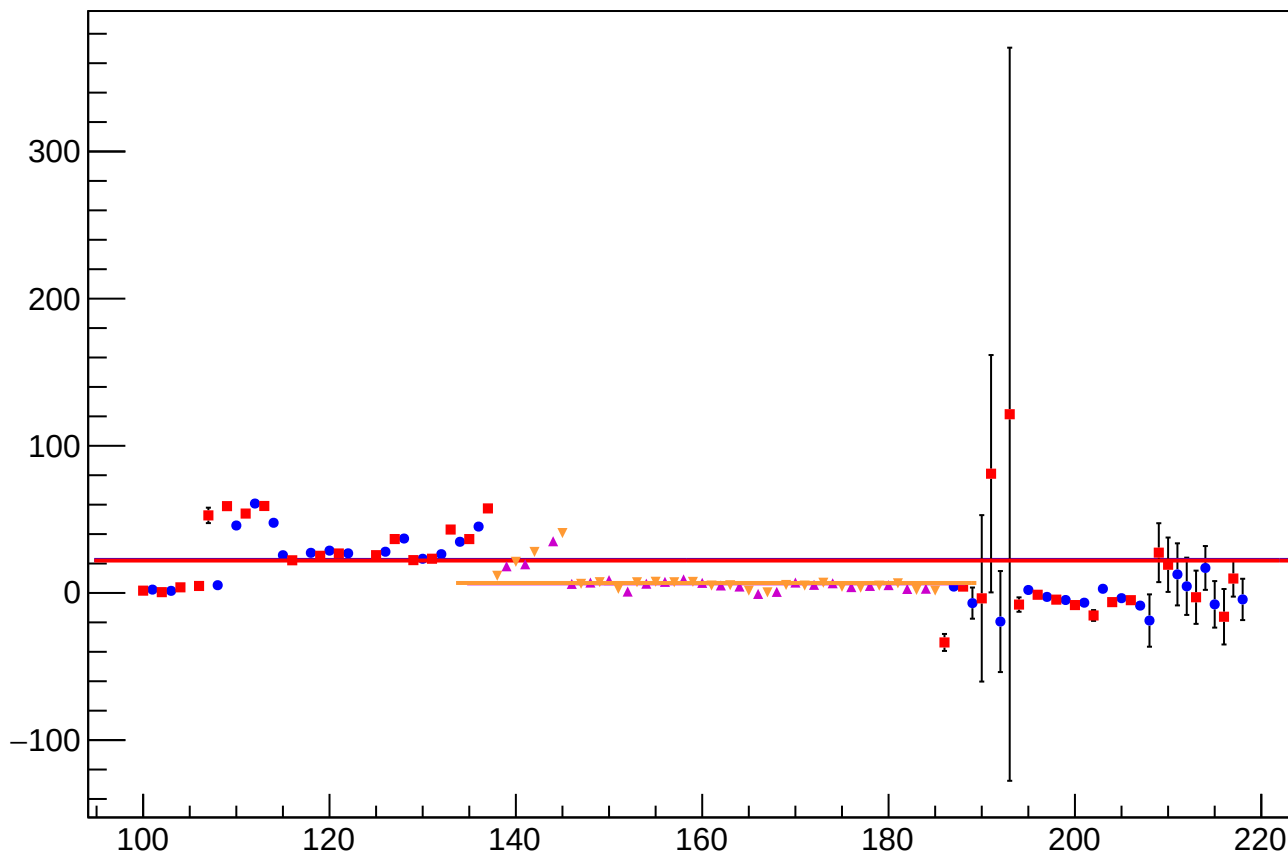
Right: 3.944 $\pm$ 0.153 χ^2 /NDF: 848.4/66

In: 2.305 $\pm$ 0.123 χ^2 /NDF:675.1/54

Out: 2.546 $\pm$ 0.122 χ^2 /NDF:646.5/58

All: 2.427 $\pm$ 0.087 χ^2 /NDF: 1323.5/113

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.445 $\pm$ 0.370 χ^2 /NDF: 2708.2/31

Left Out: 6.779 $\pm$ 0.191 χ^2 /NDF:1297.7/23

Right Out: 22.031 $\pm$ 0.349 χ^2 /NDF: 3666.3/34

Left In: 6.532 $\pm$ 0.190 χ^2 /NDF:1018.2/22

Left: 6.655 $\pm$ 0.135 χ^2 /NDF: 2316.7/46

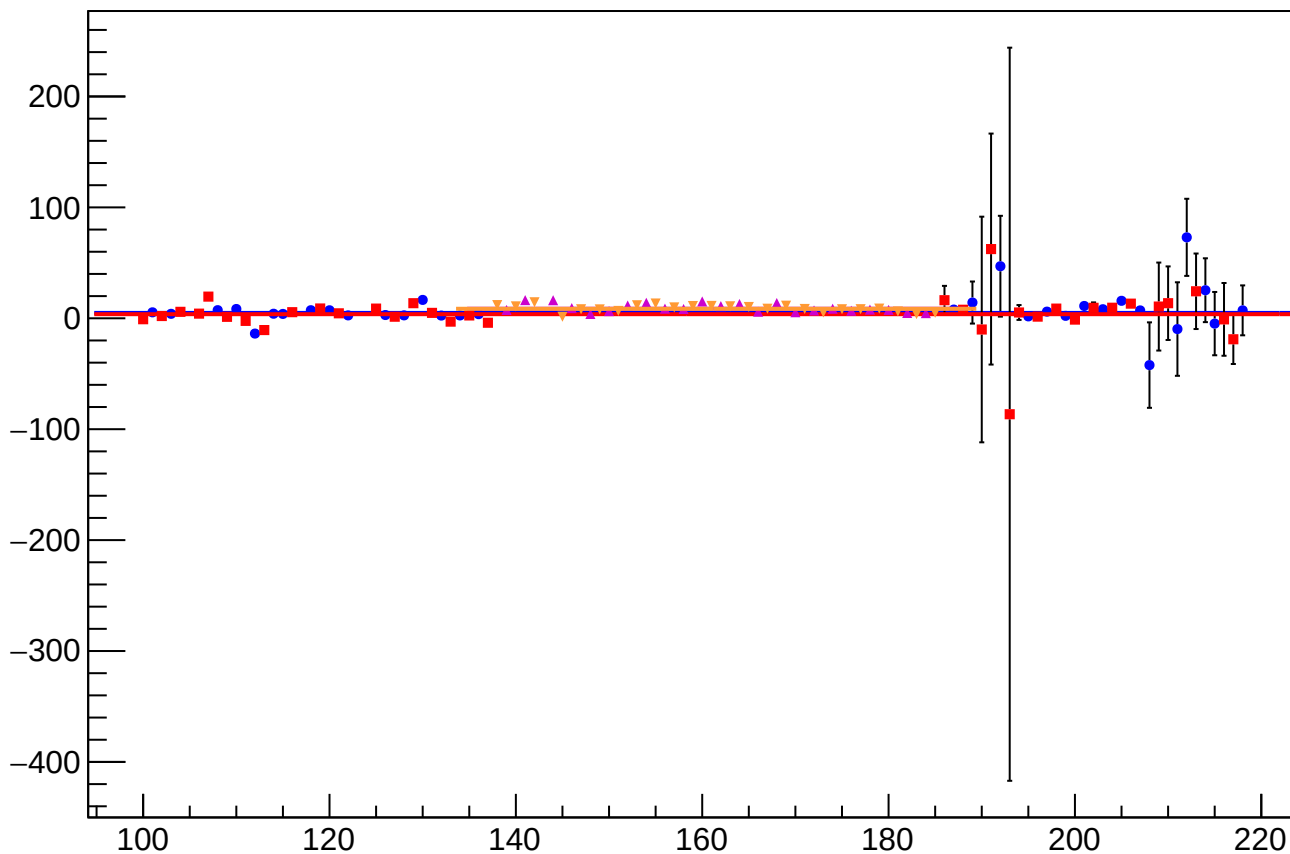
Right: 22.226 $\pm$ 0.254 χ^2 /NDF: 6375.1/66

In: 9.866 $\pm$ 0.169 χ^2 /NDF:5191.8/54

Out: 10.307 $\pm$ 0.168 χ^2 /NDF:6434.6/58

All: 10.089 $\pm$ 0.119 χ^2 /NDF: 11629.9/113

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.849 ± 0.250 χ^2/NDF : 565.0/31

Left Out: 8.585 ± 0.169 χ^2/NDF : 245.5/23

Right Out: 3.696 ± 0.250 χ^2/NDF : 590.5/34

Left In: 8.585 ± 0.170 χ^2/NDF : 441.8/22

Left: 8.585 ± 0.120 χ^2/NDF : 687.3/46

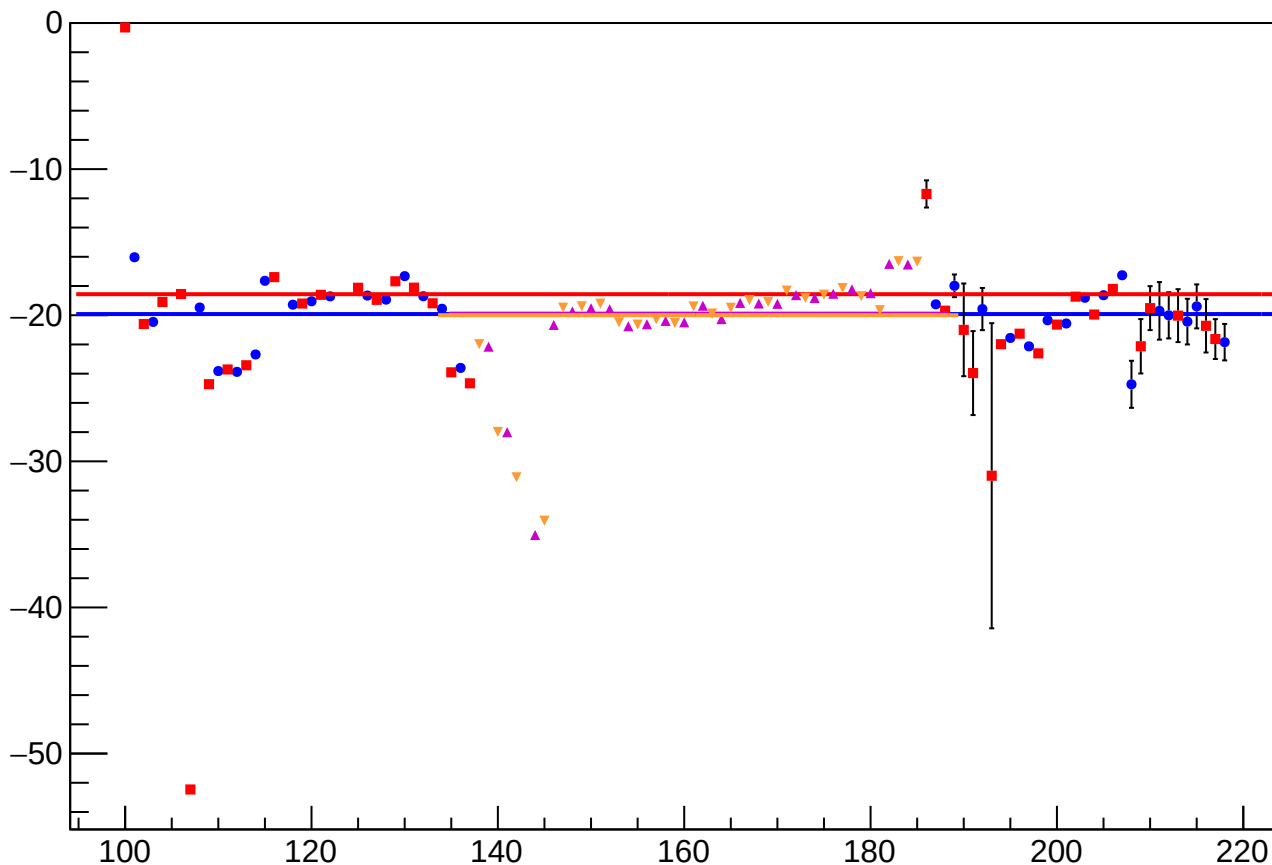
Right: 4.273 ± 0.177 χ^2/NDF : 1166.1/66

In: 7.402 ± 0.141 χ^2/NDF : 1159.6/54

Out: 7.054 ± 0.140 χ^2/NDF : 1098.4/58

All: 7.227 ± 0.099 χ^2/NDF : 2261.1/113

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.920 ± 0.015 $\chi^2/\text{NDF}: 27099.8/31$

Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$

Right Out: -18.560 ± 0.014 $\chi^2/\text{NDF}: 303735.3/34$

Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.944 ± 0.006 $\chi^2/\text{NDF}: 316093.4/46$

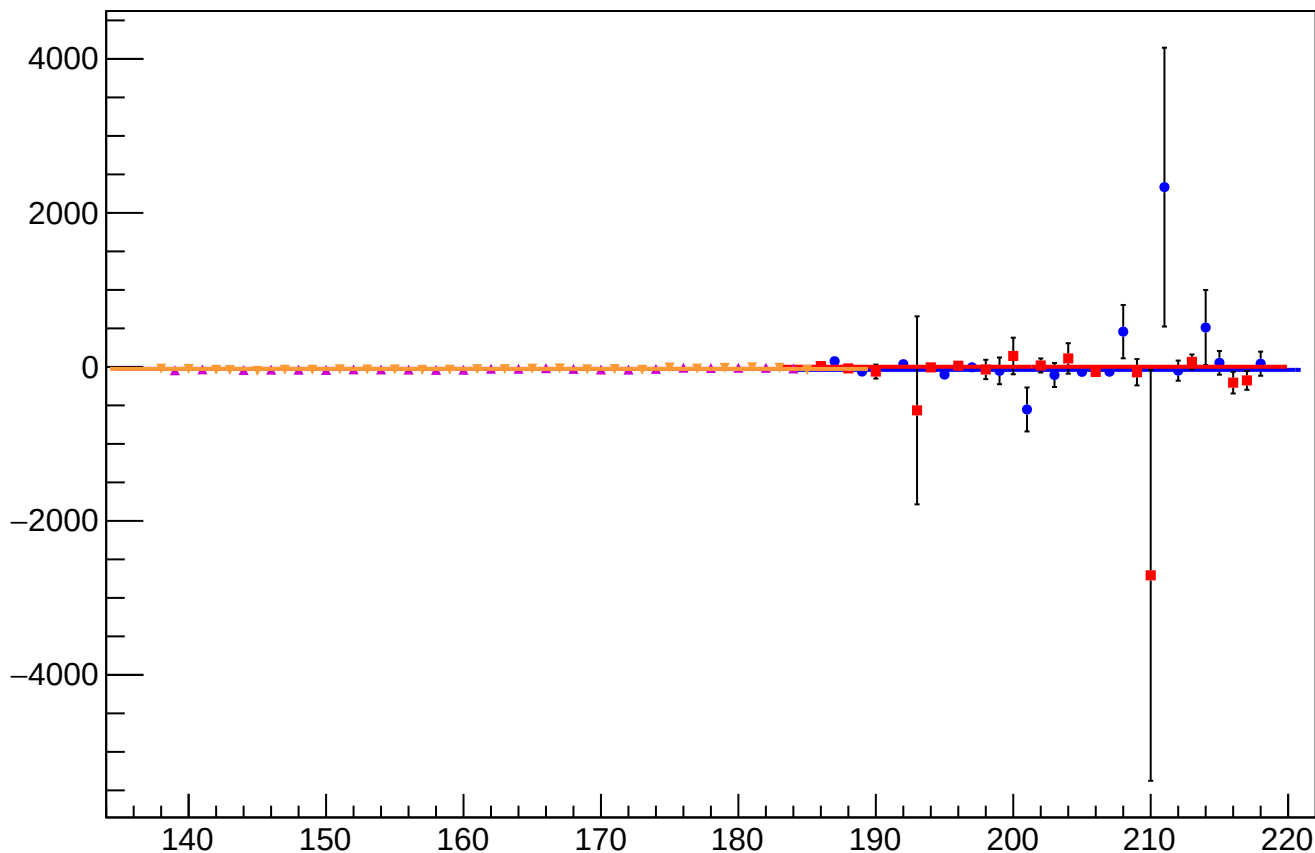
Right: -19.205 ± 0.010 $\chi^2/\text{NDF}: 335254.9/66$

In: -19.897 ± 0.007 $\chi^2/\text{NDF}: 171158.1/54$

Out: -19.655 ± 0.007 $\chi^2/\text{NDF}: 483606.4/58$

All: -19.775 ± 0.005 $\chi^2/\text{NDF}: 655378.3/113$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -38.374 ± 12.891 χ^2/NDF : 21.6/15

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 1.752 ± 8.052 χ^2/NDF : 11.5/15

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

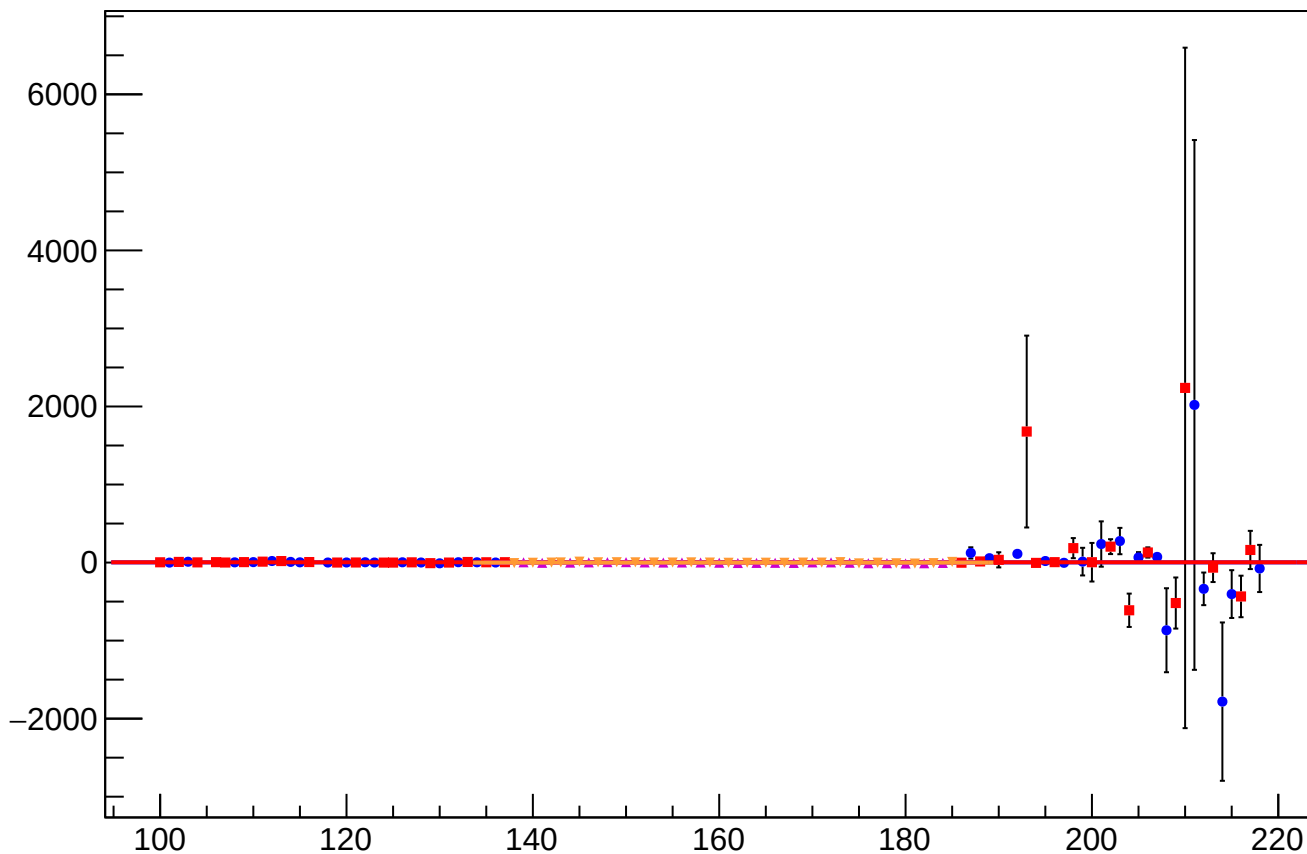
Right: -9.509 ± 6.829 χ^2/NDF : 40.1/31

In: -26.055 ± 0.195 χ^2/NDF : 3302.0/38

Out: -25.869 ± 0.192 χ^2/NDF : 4181.3/40

All: -25.960 ± 0.137 χ^2/NDF : 7483.8/79

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.475+/-0.315 χ^2/NDF : 324.1/32

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.715+/-0.327 χ^2/NDF : 295.8/34

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

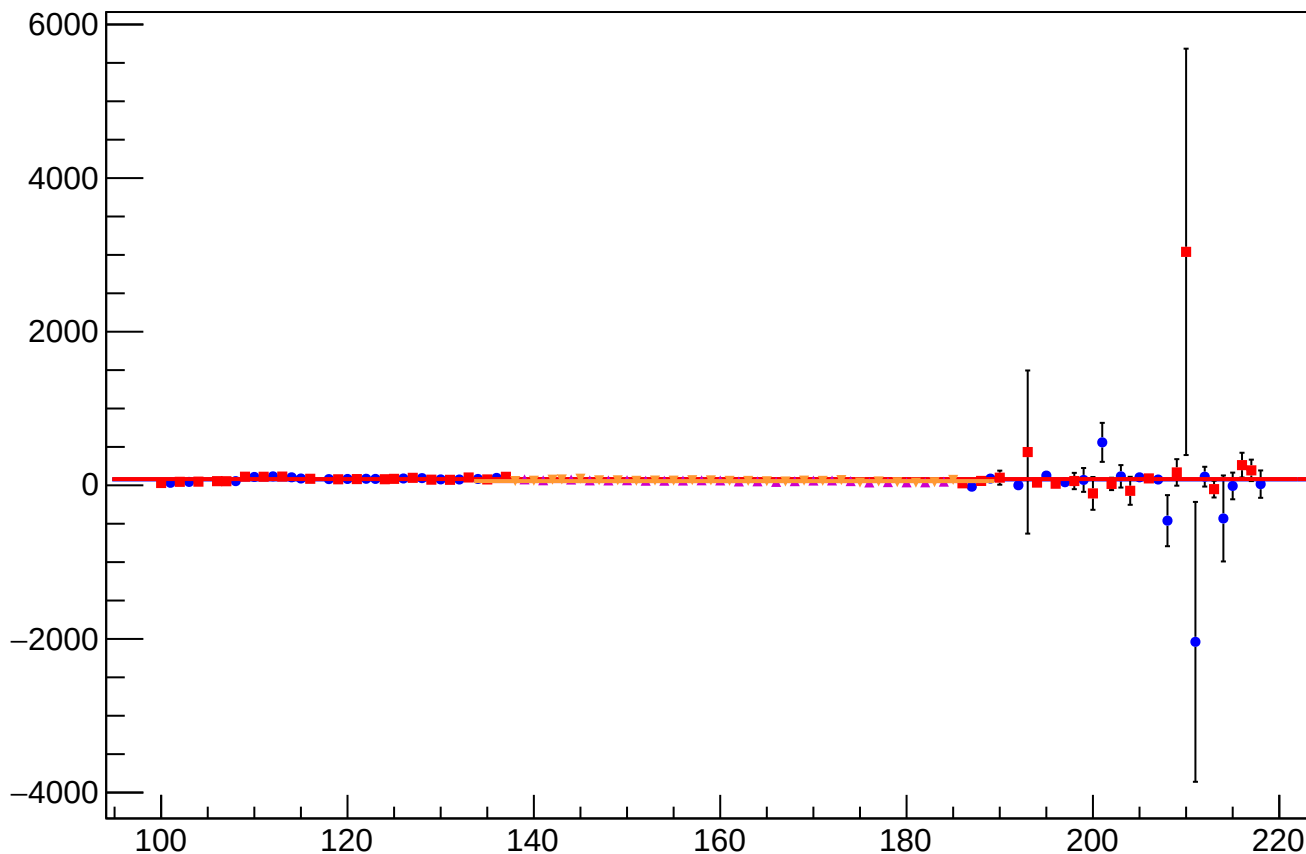
Right: 3.072+/-0.227 χ^2/NDF : 627.4/67

In: -0.242+/-0.136 χ^2/NDF : 1482.2/55

Out: 0.075+/-0.133 χ^2/NDF : 1765.7/59

All: -0.081+/-0.095 χ^2/NDF : 3250.7/115

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.530 $\pm$ 0.576 χ^2 /NDF: 2274.5/32

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.492 $\pm$ 0.590 χ^2 /NDF: 1637.5/34

Left In: 55.070 $\pm$ 0.193 χ^2 /NDF: 3702.8/22

Left: 55.084 $\pm$ 0.136 χ^2 /NDF: 8282.1/47

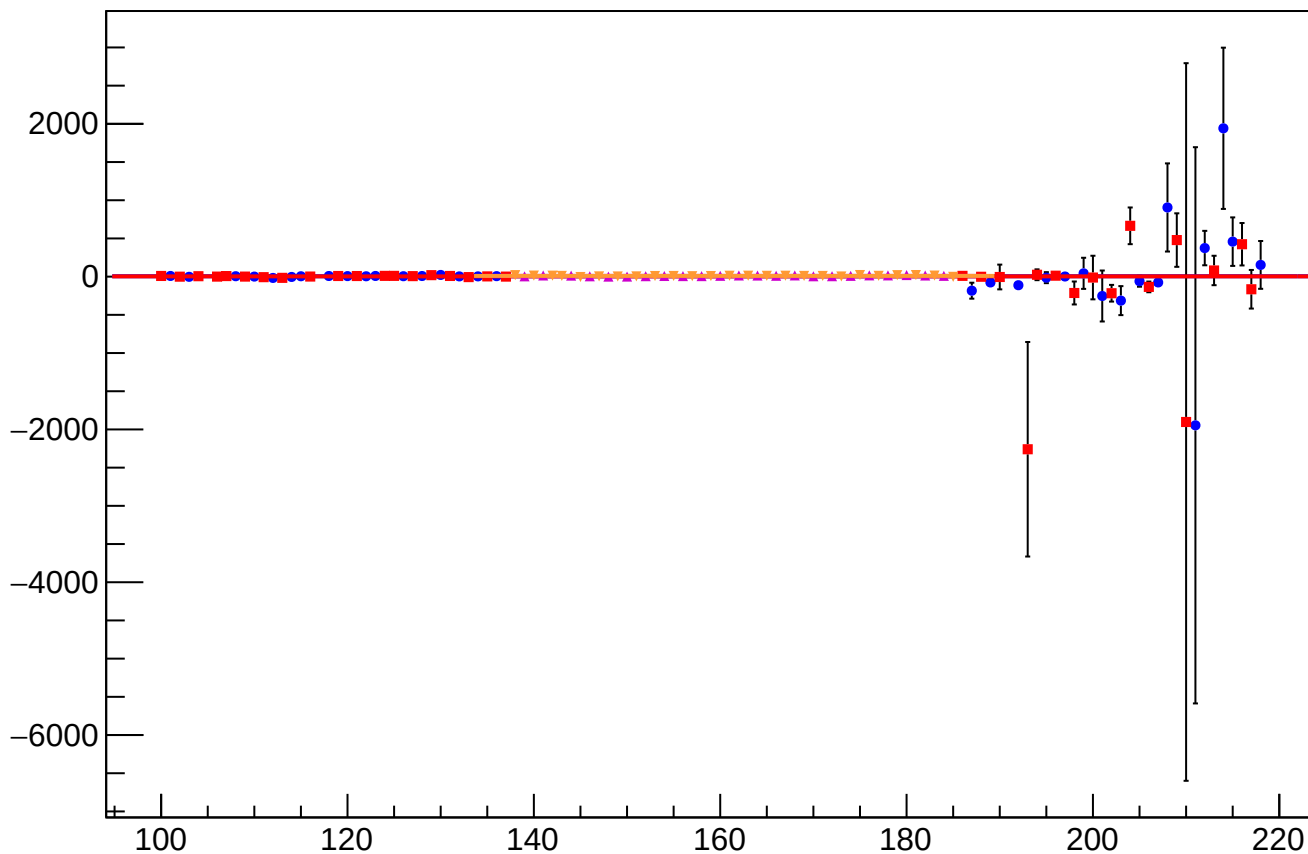
Right: 78.950 $\pm$ 0.412 χ^2 /NDF: 3948.2/67

In: 57.244 $\pm$ 0.183 χ^2 /NDF: 7224.1/55

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8024.8/59

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15250.8/115

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.408 $\pm$ 0.361 χ^2 /NDF: 415.7/32

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.581 $\pm$ 0.375 χ^2 /NDF: 447.0/34

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

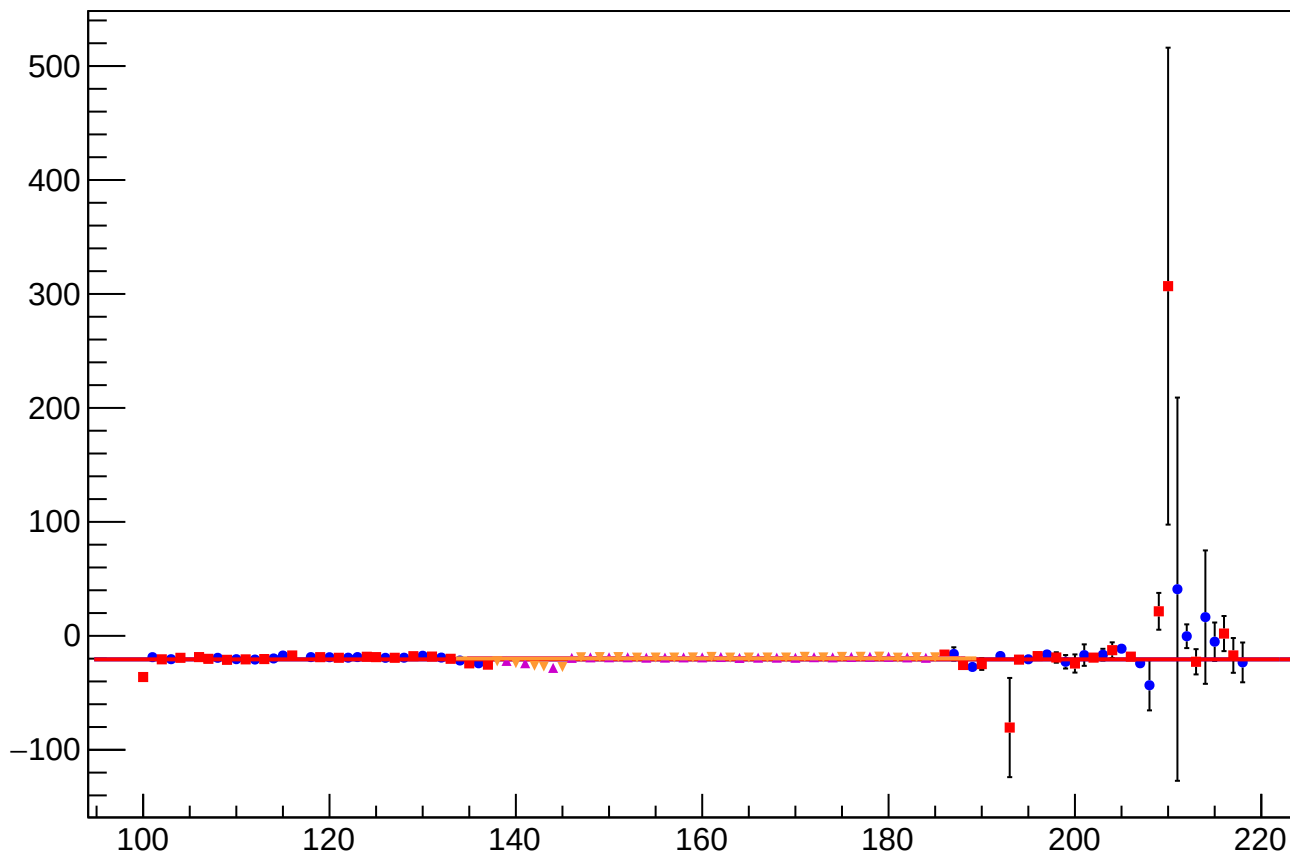
Right: 4.531 $\pm$ 0.260 χ^2 /NDF: 875.0/67

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1695.4/55

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2121.4/59

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3818.4/115

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 ± 0.019 $\chi^2/\text{NDF}: 12460.3/32$

Left Out: -19.767 ± 0.008 $\chi^2/\text{NDF}: 91617.3/24$

Right Out: -20.638 ± 0.019 $\chi^2/\text{NDF}: 13821.4/34$

Left In: -19.435 ± 0.008 $\chi^2/\text{NDF}: 53170.9/22$

Left: -19.603 ± 0.006 $\chi^2/\text{NDF}: 145665.0/47$

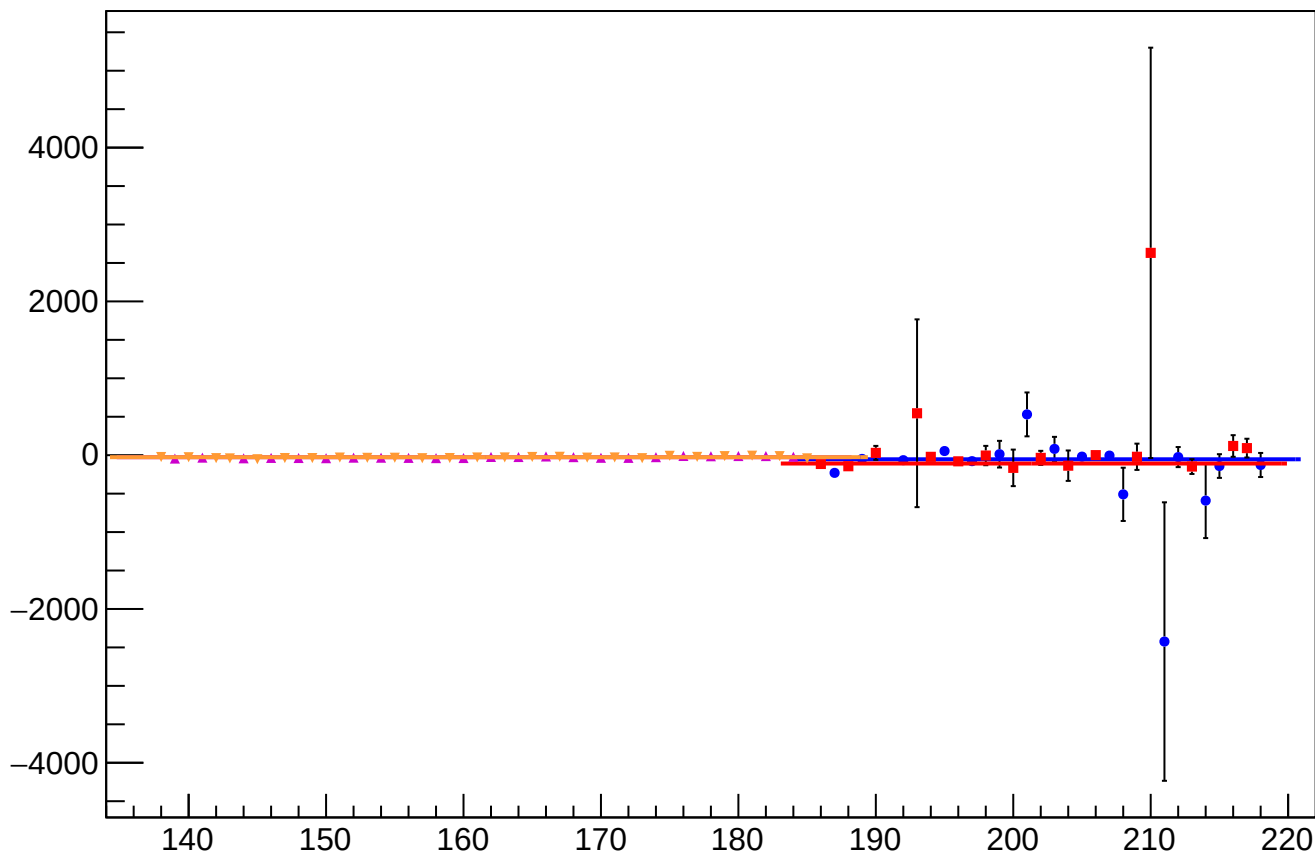
Right: -20.641 ± 0.014 $\chi^2/\text{NDF}: 26281.7/67$

In: -19.610 ± 0.007 $\chi^2/\text{NDF}: 68968.4/55$

Out: -19.890 ± 0.007 $\chi^2/\text{NDF}: 107160.8/59$

All: -19.751 ± 0.005 $\chi^2/\text{NDF}: 176857.7/115$

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -53.356+/-12.900 χ^2/NDF : 32.8/15

Left Out: -25.899+/-0.192 χ^2/NDF : 4127.5/24

Right Out: -108.434+/-8.057 χ^2/NDF : 22.4/15

Left In: -26.046+/-0.195 χ^2/NDF : 3246.7/22

Left: -25.971+/-0.137 χ^2/NDF : 7374.6/47

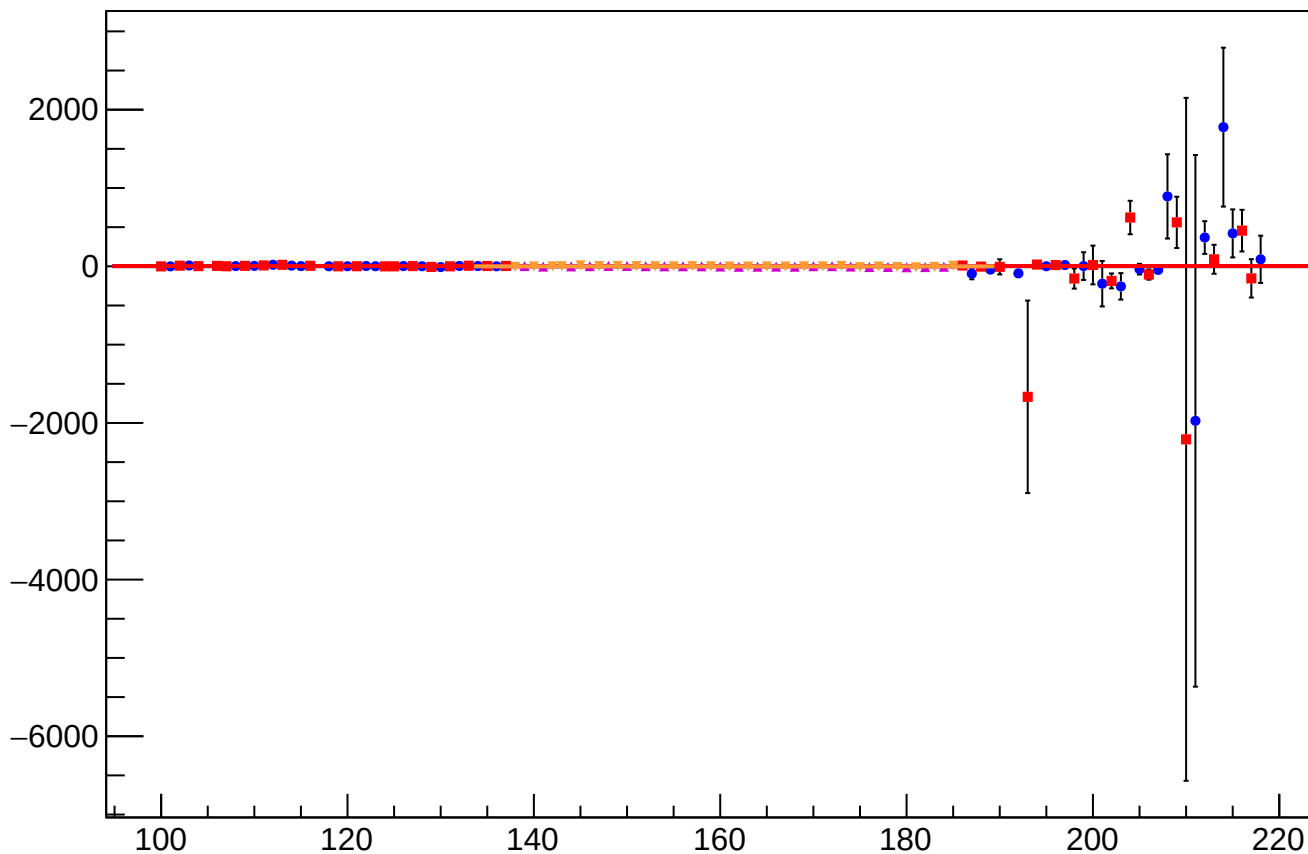
Right: -92.978+/-6.834 χ^2/NDF : 68.3/31

In: -26.052+/-0.195 χ^2/NDF : 3284.0/38

Out: -25.946+/-0.192 χ^2/NDF : 4254.8/40

All: -25.998+/-0.137 χ^2/NDF : 7539.0/79

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.440 ± 0.315 χ^2/NDF : 316.6/32

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.594 ± 0.318 χ^2/NDF : 305.7/34

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

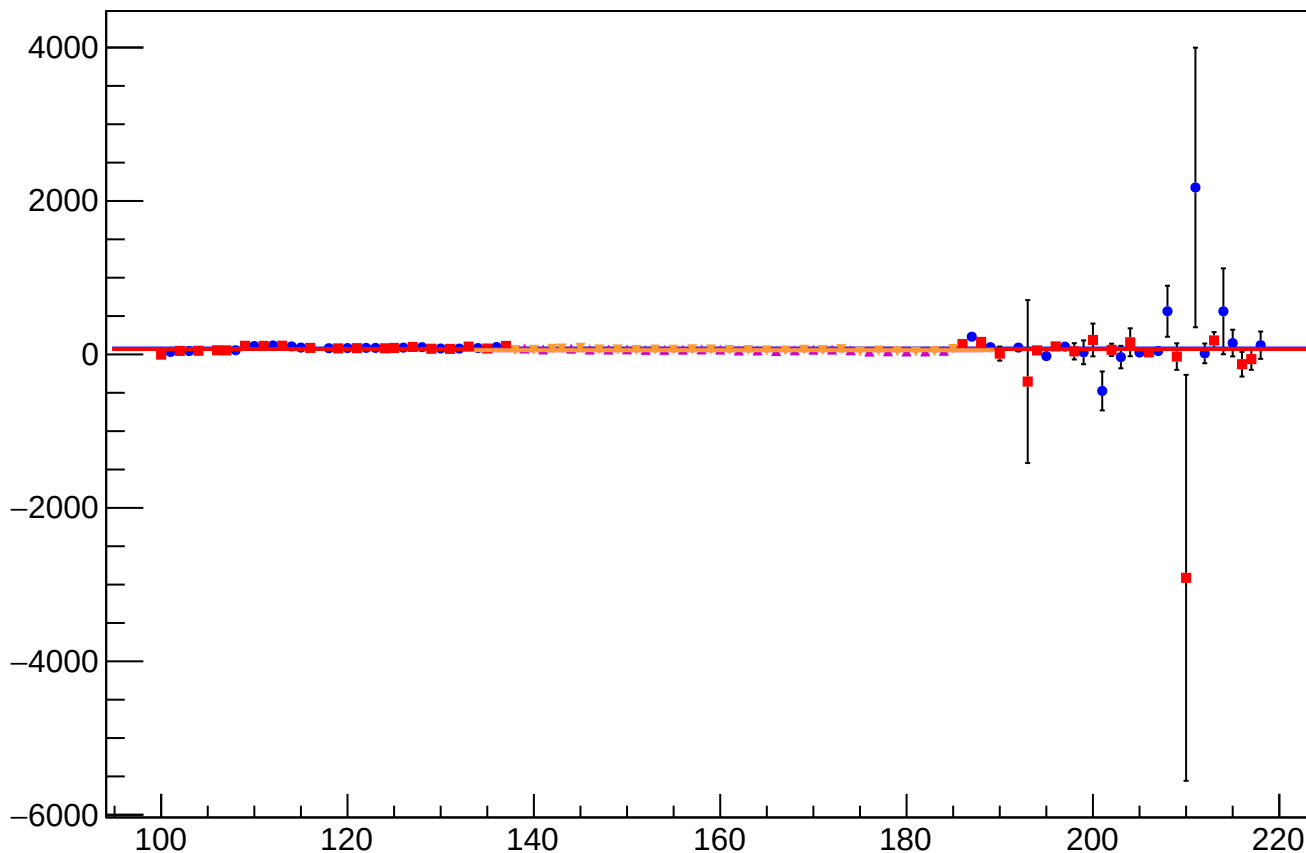
Right: 3.011 ± 0.224 χ^2/NDF : 629.0/67

In: -0.193 ± 0.136 χ^2/NDF : 1508.8/55

Out: 0.136 ± 0.133 χ^2/NDF : 1759.8/59

All: -0.025 ± 0.095 χ^2/NDF : 3271.5/115

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.710 $\pm$ 0.576 χ^2 /NDF: 2301.0/32

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.746 $\pm$ 0.549 χ^2 /NDF: 4497.5/34

Left In: 55.094 $\pm$ 0.194 χ^2 /NDF: 3664.6/22

Left: 55.103 $\pm$ 0.136 χ^2 /NDF: 8224.8/47

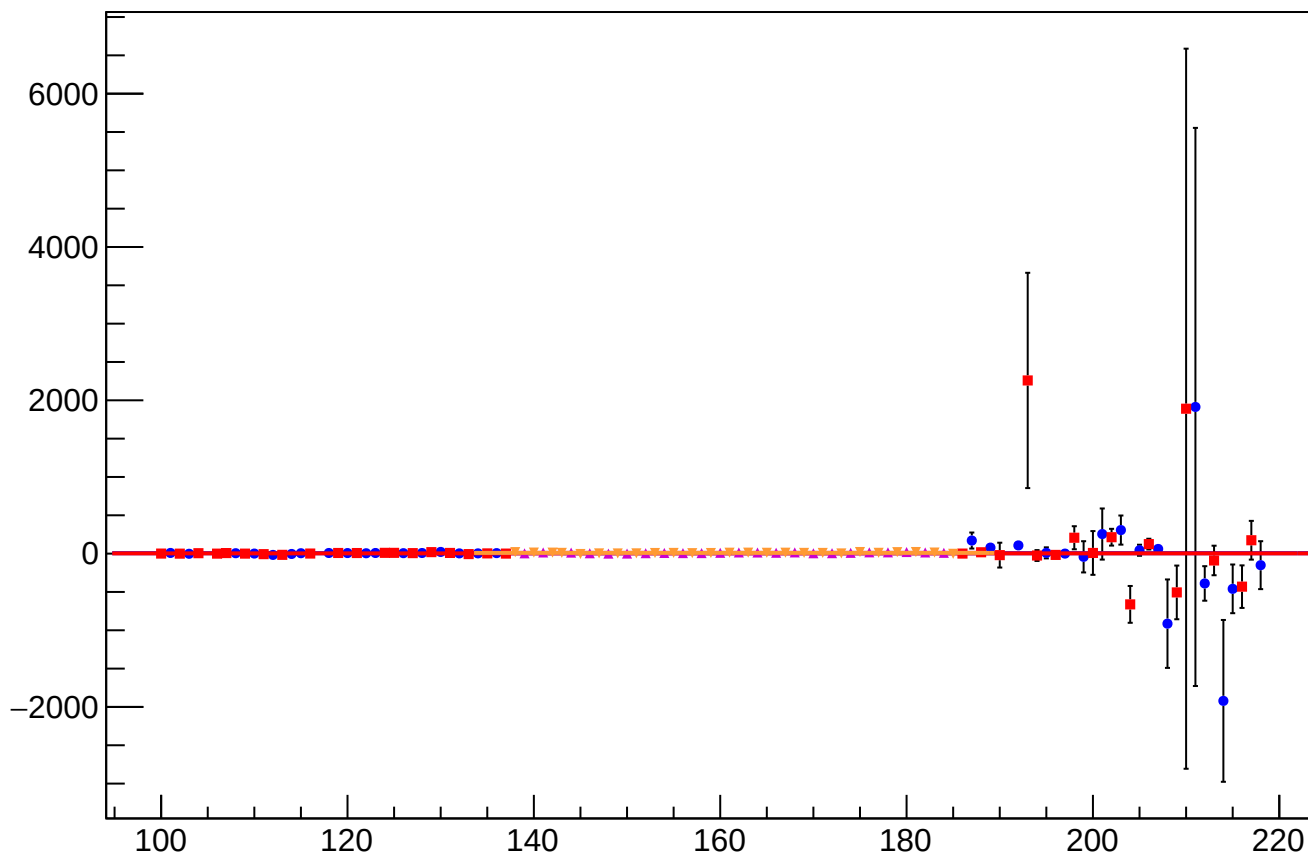
Right: 73.581 $\pm$ 0.397 χ^2 /NDF: 6854.6/67

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7229.2/55

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9781.6/59

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17014.1/115

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.443 $\pm$ 0.361 χ^2 /NDF: 409.9/32

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.282 $\pm$ 0.365 χ^2 /NDF: 449.6/34

Left In: 9.738 $\pm$ 0.172 χ^2 /NDF:1191.1/22

Left: 9.706 $\pm$ 0.120 χ^2 /NDF: 2632.6/47

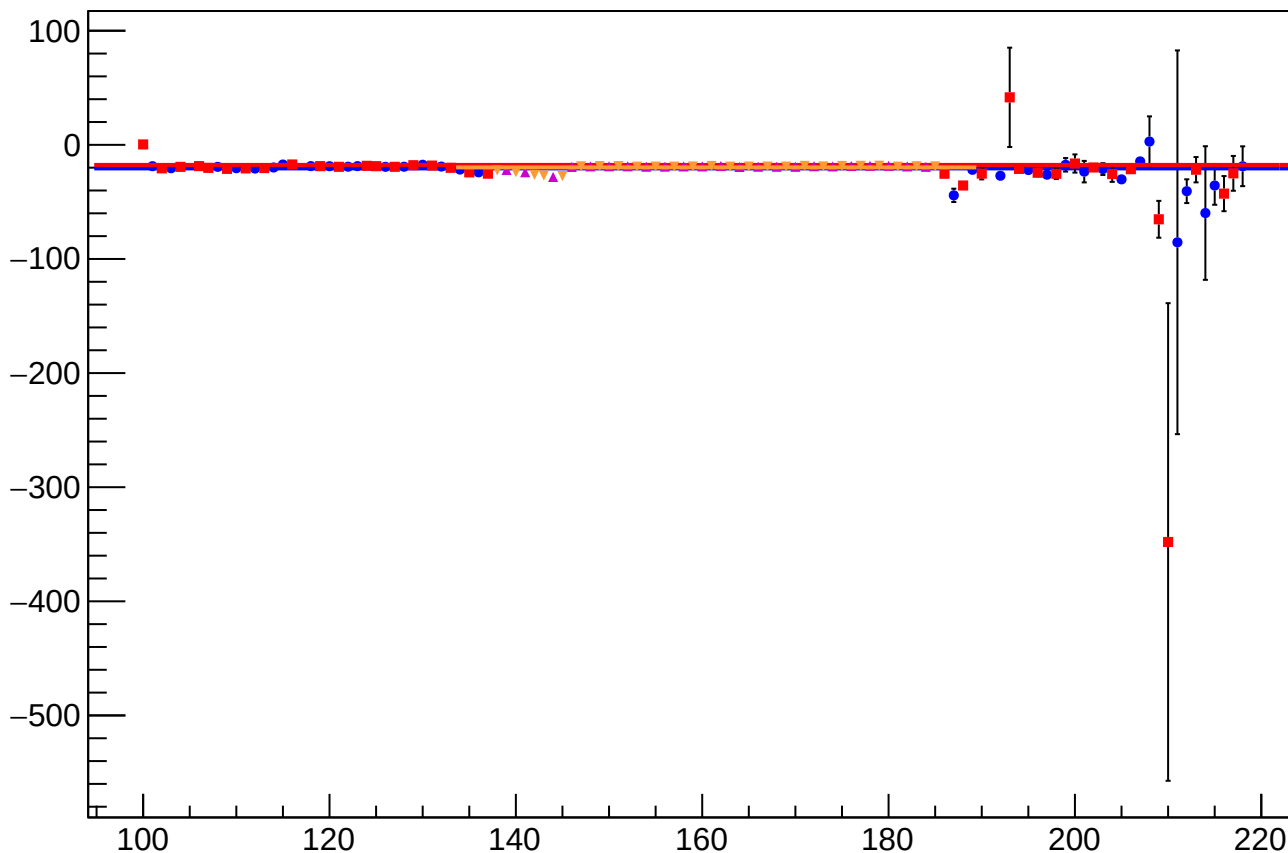
Right: 4.376 $\pm$ 0.257 χ^2 /NDF: 877.2/67

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1716.4/55

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2143.7/59

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3863.2/115

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 χ^2/NDF : 12521.0/32

Left Out: -19.775 ± 0.008 χ^2/NDF : 91510.1/24

Right Out: -17.575 ± 0.018 χ^2/NDF : 178455.8/34

Left In: -19.445 ± 0.008 χ^2/NDF : 53124.1/22

Left: -19.611 ± 0.006 χ^2/NDF : 145502.5/47

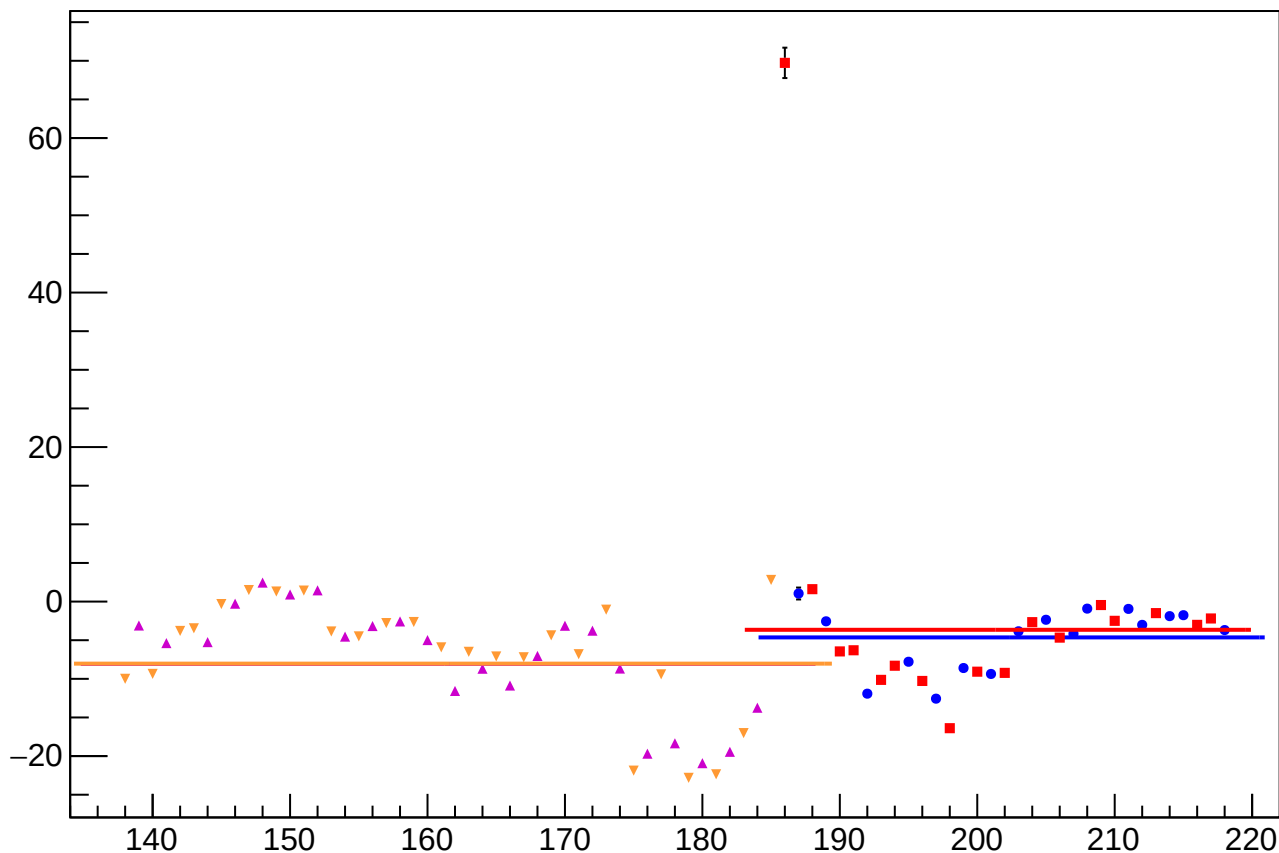
Right: -19.003 ± 0.013 χ^2/NDF : 204446.8/67

In: -19.618 ± 0.007 χ^2/NDF : 68942.9/55

Out: -19.422 ± 0.007 χ^2/NDF : 282442.1/59

All: -19.518 ± 0.005 χ^2/NDF : 351748.2/115

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

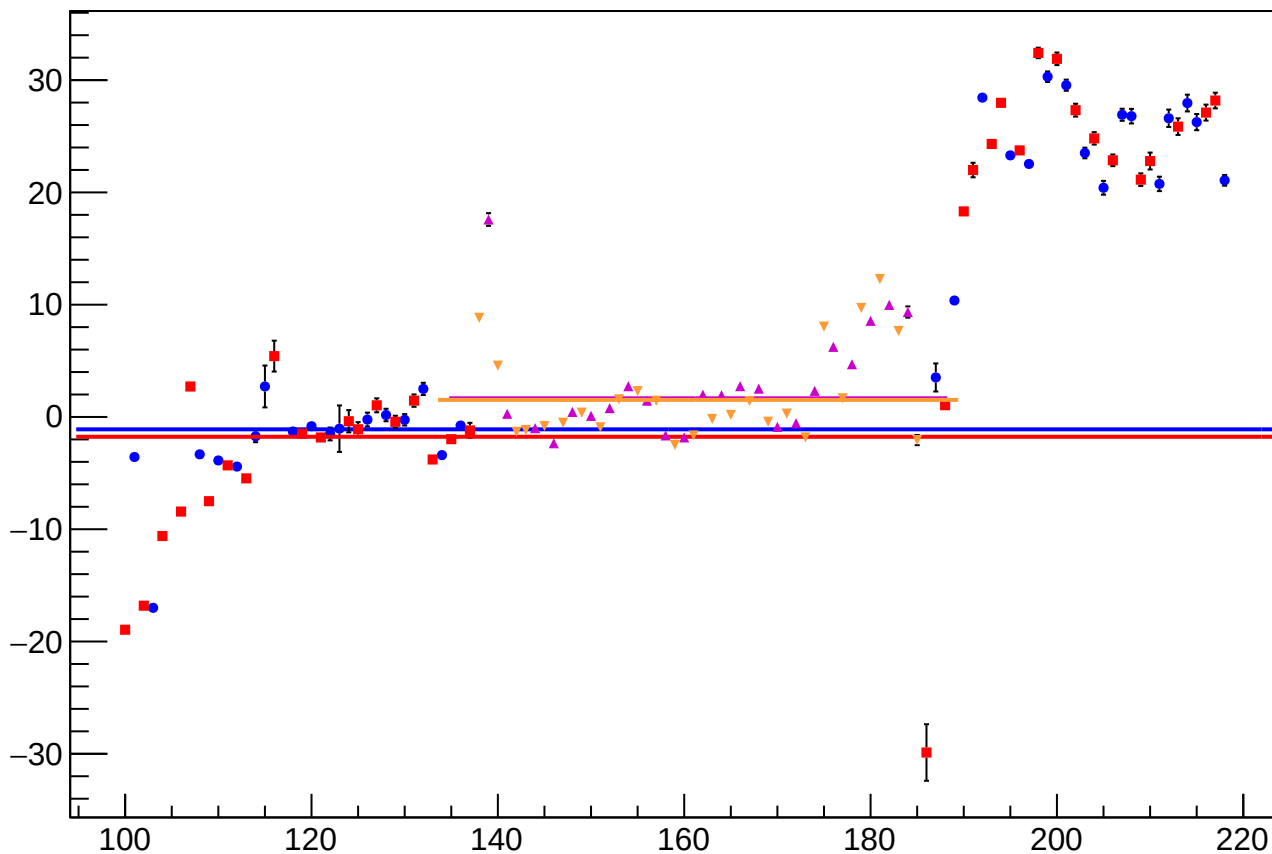


Right In: -4.638 ± 0.096 χ^2/NDF : 1562.0/15
 Left Out: -8.034 ± 0.070 χ^2/NDF : 12568.0/24
 Right Out: -3.652 ± 0.090 χ^2/NDF : 4163.5/16
 Left In: -8.078 ± 0.072 χ^2/NDF : 10541.6/22

Left: -8.055 ± 0.050 χ^2/NDF : 23109.8/47
 Right: -4.108 ± 0.066 χ^2/NDF : 5781.5/32
 In: -6.849 ± 0.058 χ^2/NDF : 12921.2/38
 Out: -6.362 ± 0.055 χ^2/NDF : 18213.4/41

All: -6.595 ± 0.040 χ^2/NDF : 31171.7/80

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.102 ± 0.051 χ^2/NDF : 52947.2/32

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -1.764 ± 0.053 χ^2/NDF : 61496.1/35

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

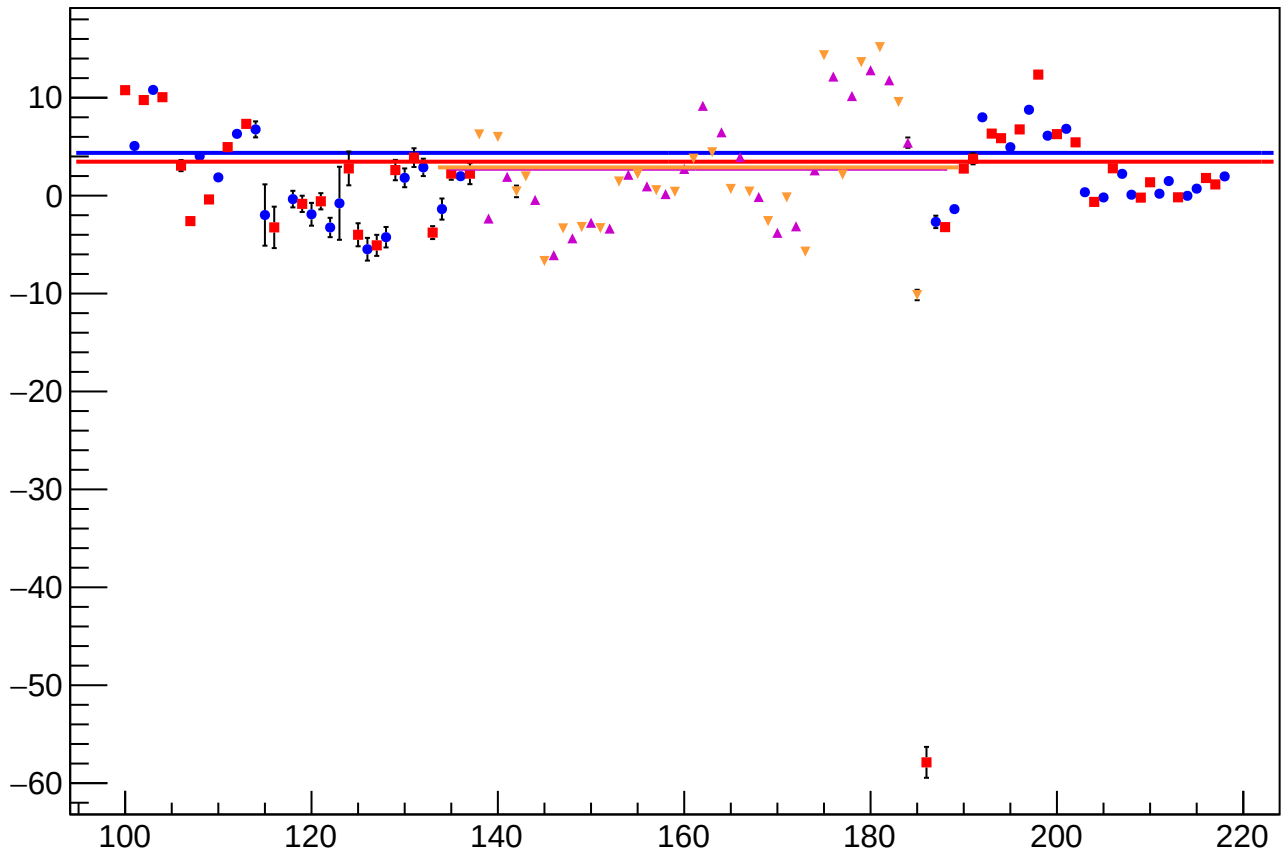
Right: -1.418 ± 0.037 χ^2/NDF : 114524.8/68

In: 0.127 ± 0.038 χ^2/NDF : 58307.0/55

Out: -0.163 ± 0.038 χ^2/NDF : 68211.1/60

All: -0.017 ± 0.027 χ^2/NDF : 126547.5/116

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.366 $\pm$ 0.065 χ^2 /NDF: 3347.6/32

Left Out: 2.884 $\pm$ 0.070 χ^2 /NDF:8893.2/24

Right Out: 3.466 $\pm$ 0.062 χ^2 /NDF: 8124.1/35

Left In: 2.745 $\pm$ 0.071 χ^2 /NDF:7183.1/22

Left: 2.816 $\pm$ 0.050 χ^2 /NDF: 16078.2/47

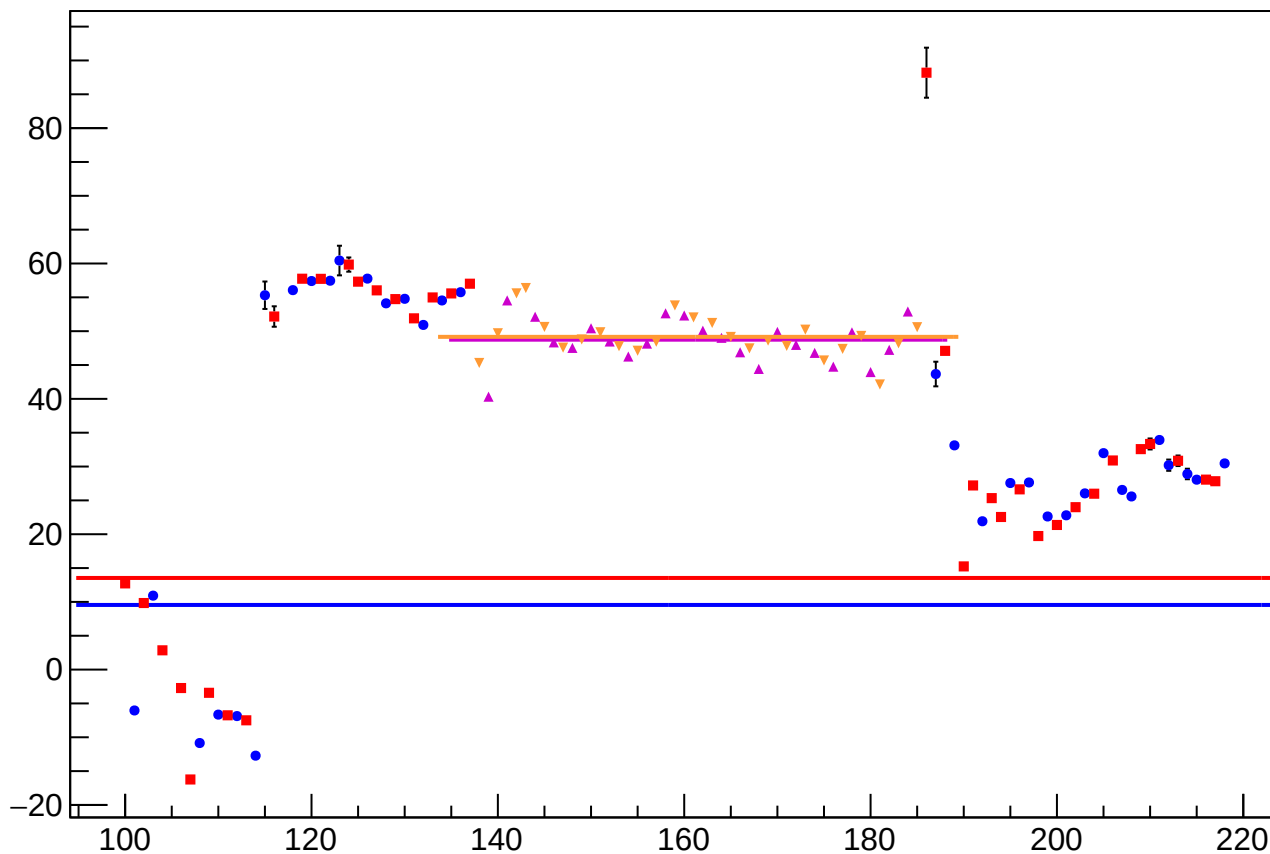
Right: 3.898 $\pm$ 0.045 χ^2 /NDF: 11572.7/68

In: 3.638 $\pm$ 0.048 χ^2 /NDF:10813.9/55

Out: 3.212 $\pm$ 0.046 χ^2 /NDF:17055.9/60

All: 3.418 $\pm$ 0.033 χ^2 /NDF: 27910.5/116

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.551+/-0.060 χ^2/NDF : 137944.9/32

Left Out: 49.163+/-0.062 χ^2/NDF :2259.9/24

Right Out: 13.539+/-0.063 χ^2/NDF : 138551.5/35

Left In: 48.744+/-0.064 χ^2/NDF :2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

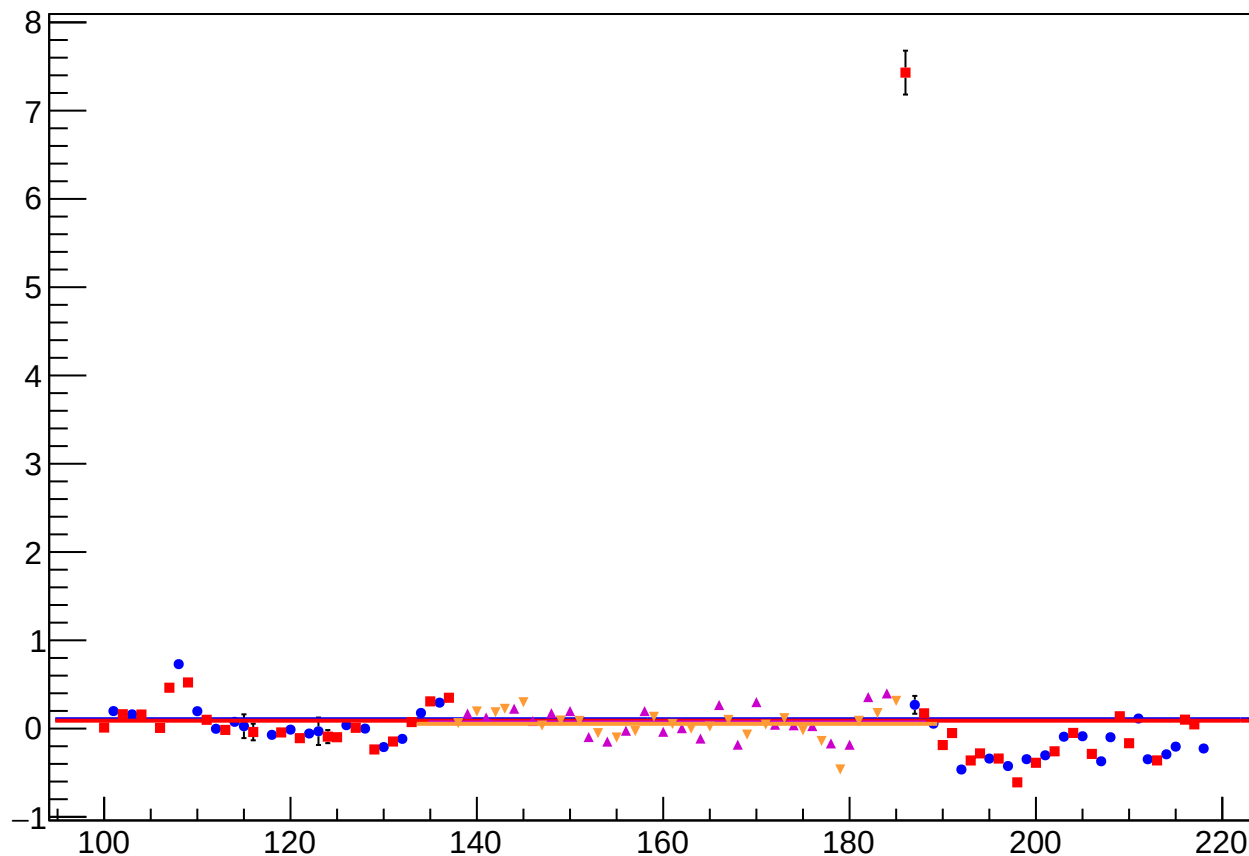
Right: 11.437+/-0.043 χ^2/NDF : 278620.8/68

In: 27.794+/-0.044 χ^2/NDF :341971.9/55

Out: 31.661+/-0.044 χ^2/NDF :304376.8/60

All: 29.704+/-0.031 χ^2/NDF : 650250.8/116

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.106+/-0.002 χ^2/NDF : 11998.4/32

Left Out: 0.054+/-0.003 χ^2/NDF :2379.8/24

Right Out: 0.090+/-0.002 χ^2/NDF : 11111.8/35

Left In: 0.070+/-0.003 χ^2/NDF :3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

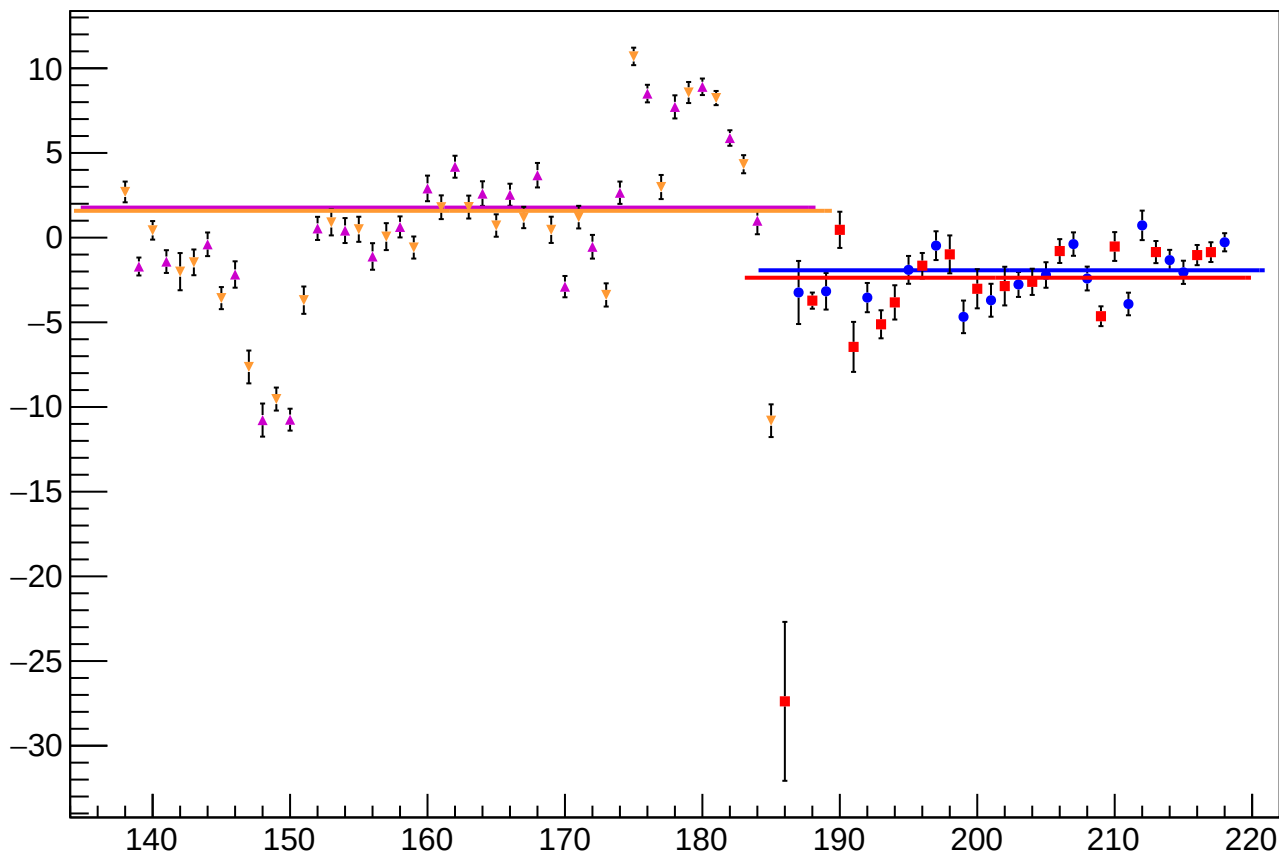
Right: 0.098+/-0.002 χ^2/NDF : 23133.7/68

In: 0.091+/-0.002 χ^2/NDF :15322.8/55

Out: 0.075+/-0.002 χ^2/NDF :13585.3/60

All: 0.083+/-0.001 χ^2/NDF : 28946.2/116

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.928 ± 0.192 χ^2/NDF : 55.4/15

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -2.367 ± 0.188 χ^2/NDF : 109.2/16

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

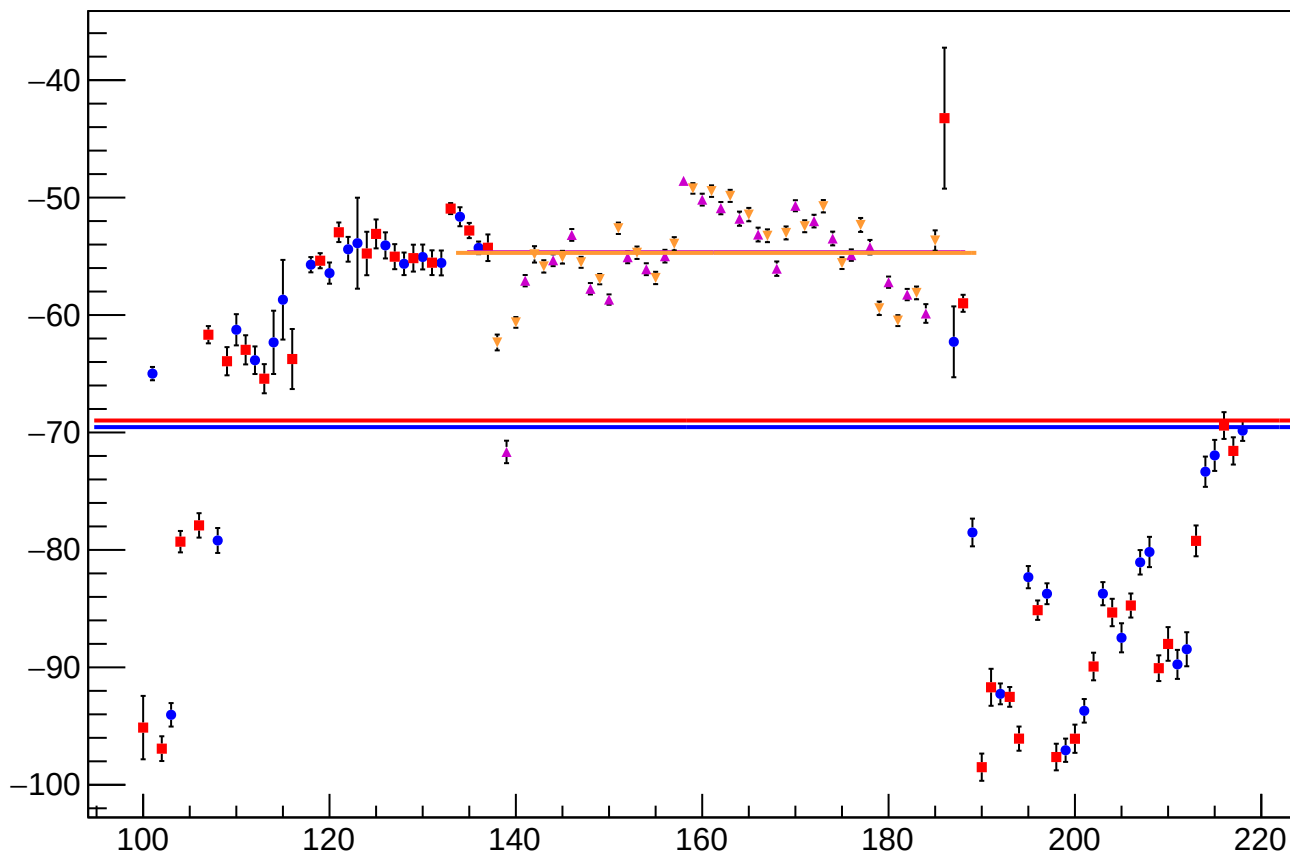
Right: -2.152 ± 0.134 χ^2/NDF : 167.2/32

In: 0.546 ± 0.111 χ^2/NDF : 1601.2/38

Out: 0.267 ± 0.108 χ^2/NDF : 1863.6/41

All: 0.404 ± 0.077 χ^2/NDF : 3468.0/80

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.544 ± 0.174 $\chi^2/\text{NDF}: 7335.2/32$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -68.981 ± 0.166 $\chi^2/\text{NDF}: 10379.9/35$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

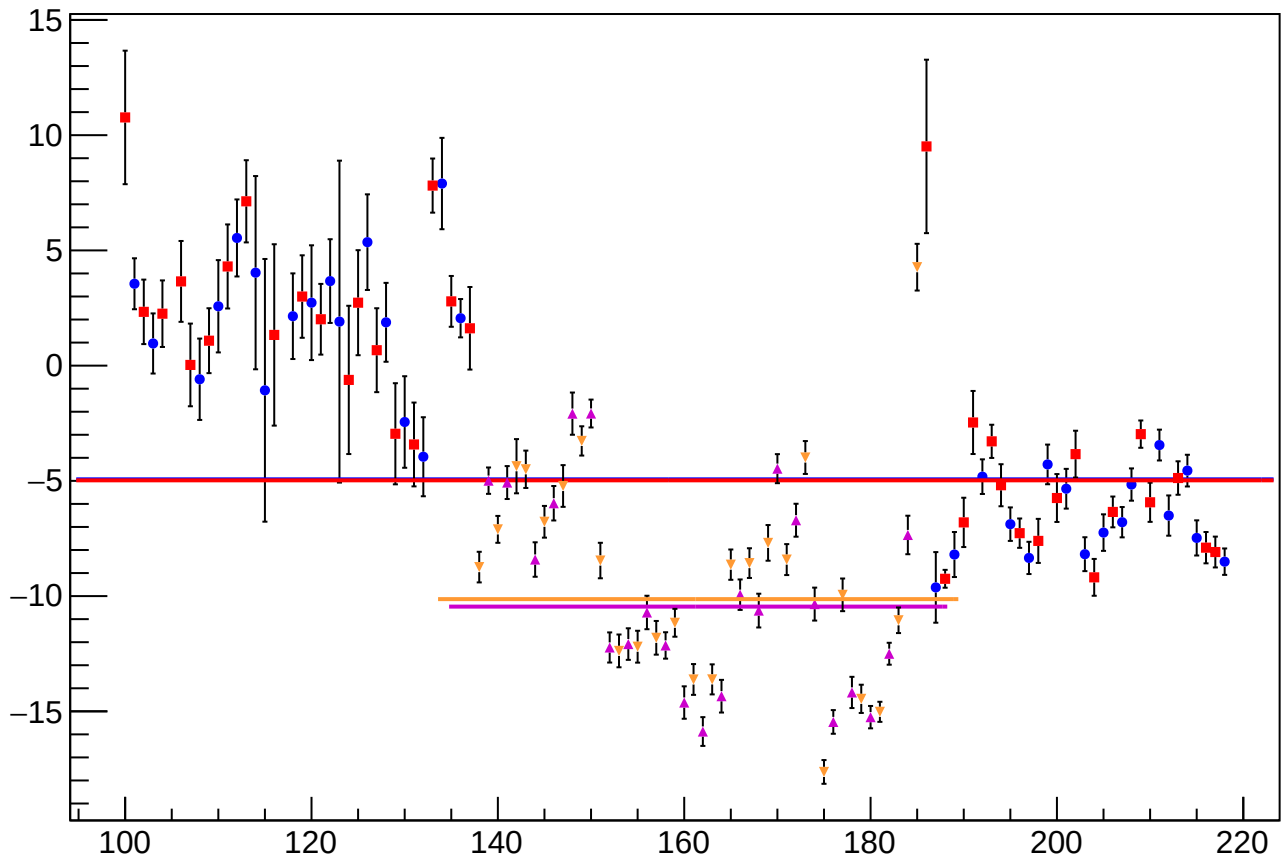
Right: -69.249 ± 0.120 $\chi^2/\text{NDF}: 17720.7/68$

In: -58.892 ± 0.093 $\chi^2/\text{NDF}: 13654.4/55$

Out: -58.835 ± 0.089 $\chi^2/\text{NDF}: 16779.7/60$

All: -58.862 ± 0.064 $\chi^2/\text{NDF}: 30434.3/116$

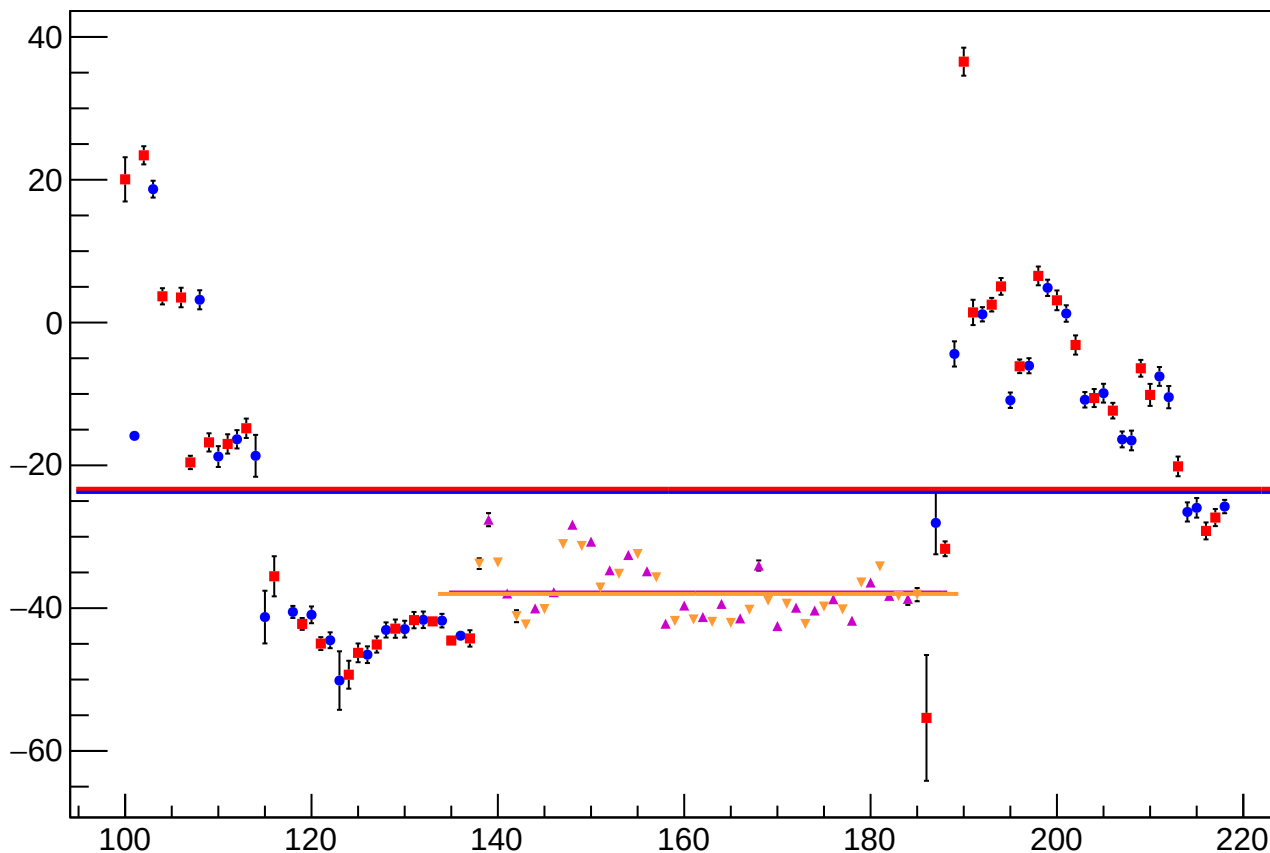
reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.934 ± 0.171 $\chi^2/\text{NDF}: 492.9/32$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -4.977 ± 0.163 $\chi^2/\text{NDF}: 709.3/35$
 Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$
 Right: -4.956 ± 0.118 $\chi^2/\text{NDF}: 1202.2/68$
 In: -8.345 ± 0.106 $\chi^2/\text{NDF}: 2138.7/55$
 Out: -8.073 ± 0.103 $\chi^2/\text{NDF}: 2366.2/60$
 All: -8.205 ± 0.074 $\chi^2/\text{NDF}: 4508.3/116$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.721 ± 0.197 $\chi^2/\text{NDF}: 8674.2/32$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -23.278 ± 0.191 $\chi^2/\text{NDF}: 11928.4/35$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

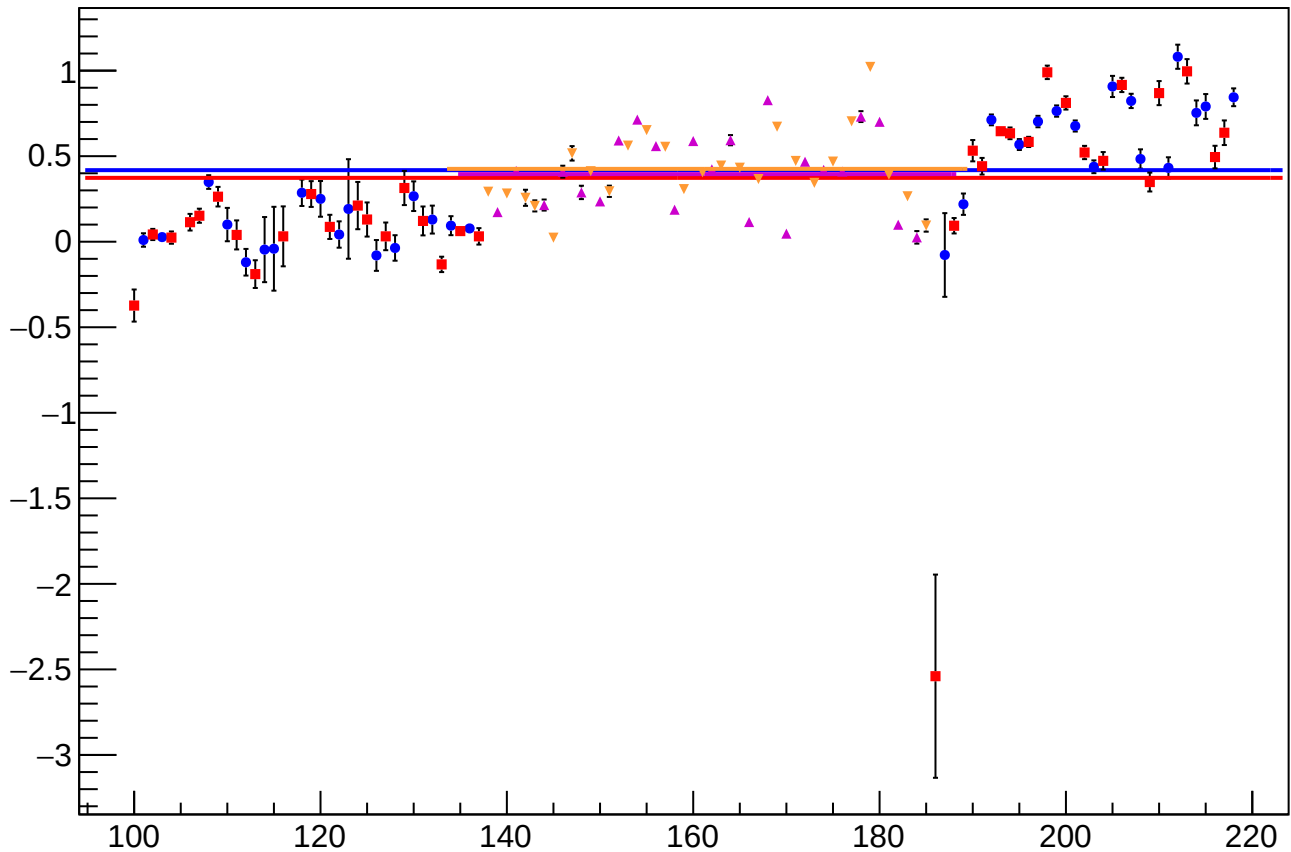
Right: -23.493 ± 0.137 $\chi^2/\text{NDF}: 20605.2/68$

In: -33.881 ± 0.104 $\chi^2/\text{NDF}: 13414.7/55$

Out: -33.904 ± 0.101 $\chi^2/\text{NDF}: 17159.4/60$

All: -33.893 ± 0.072 $\chi^2/\text{NDF}: 30574.1/116$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.418 $\pm$ 0.008 χ^2 /NDF: 1470.8/32

Left Out: 0.426 $\pm$ 0.005 χ^2 /NDF:1303.7/24

Right Out: 0.373 $\pm$ 0.008 χ^2 /NDF: 1723.5/35

Left In: 0.395 $\pm$ 0.005 χ^2 /NDF:1798.2/22

Left: 0.411 $\pm$ 0.004 χ^2 /NDF: 3118.1/47

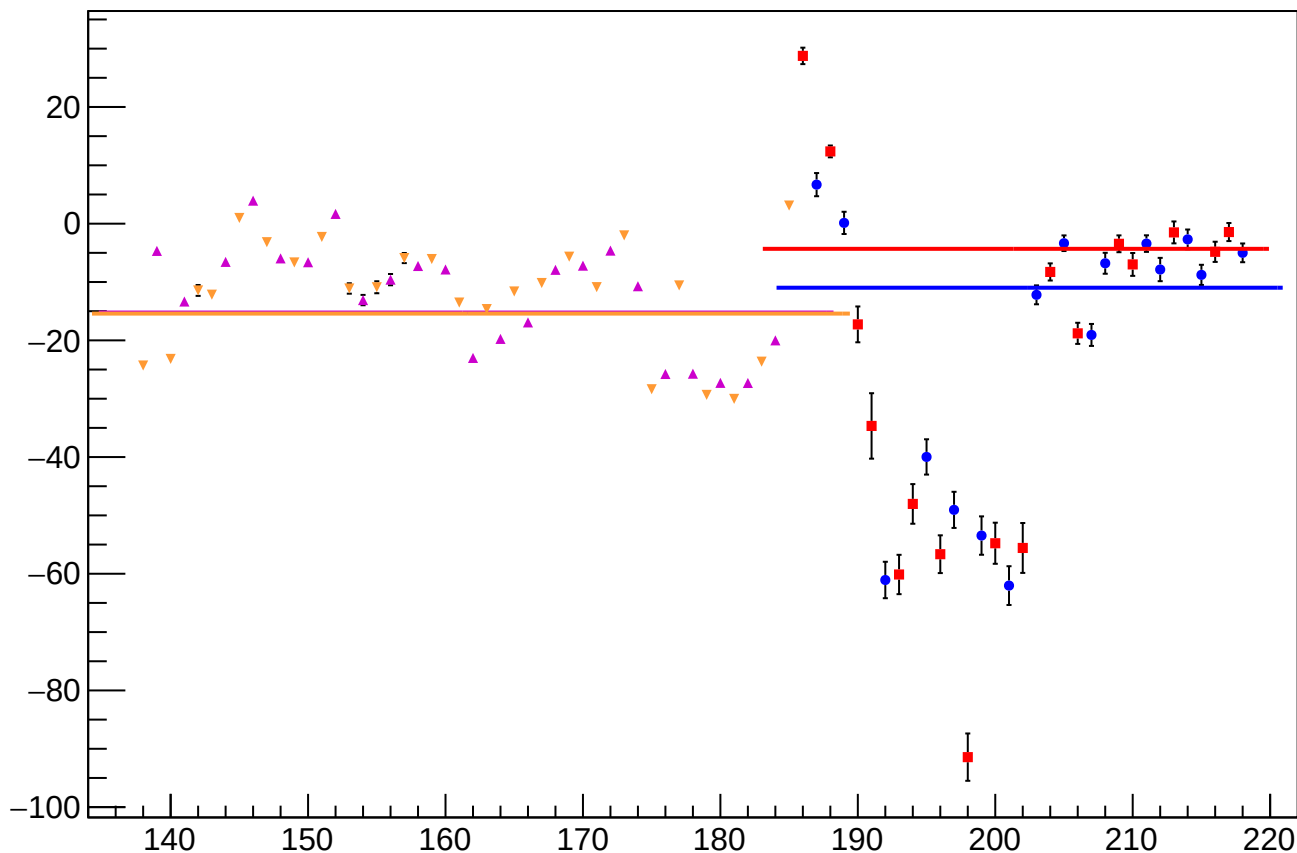
Right: 0.395 $\pm$ 0.006 χ^2 /NDF: 3209.1/68

In: 0.402 $\pm$ 0.005 χ^2 /NDF:3274.4/55

Out: 0.410 $\pm$ 0.004 χ^2 /NDF:3056.2/60

All: 0.406 $\pm$ 0.003 χ^2 /NDF: 6332.1/116

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected

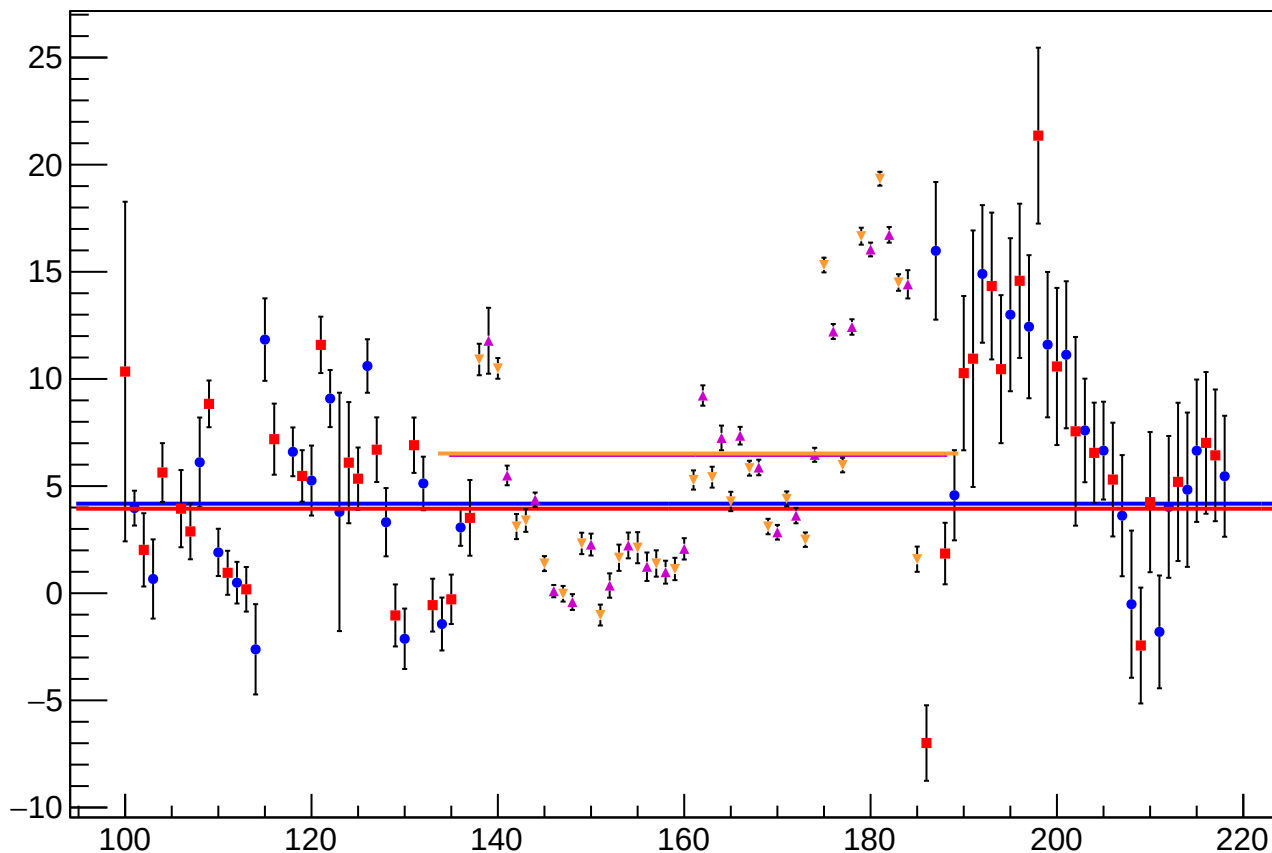


Right In: -10.977 ± 0.478 $\chi^2/\text{NDF}: 1143.6/15$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: -4.312 ± 0.465 $\chi^2/\text{NDF}: 2460.5/16$
 Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$
 Right: -7.552 ± 0.333 $\chi^2/\text{NDF}: 3704.0/32$
 In: -15.028 ± 0.104 $\chi^2/\text{NDF}: 9876.3/38$
 Out: -14.872 ± 0.103 $\chi^2/\text{NDF}: 13512.1/41$

All: -14.948 ± 0.073 $\chi^2/\text{NDF}: 23389.6/80$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.179 $\pm$ 0.286 χ^2 /NDF: 194.5/32

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF:4985.2/24

Right Out: 3.945 $\pm$ 0.287 χ^2 /NDF: 230.9/35

Left In: 6.452 $\pm$ 0.086 χ^2 /NDF:3948.0/22

Left: 6.487 $\pm$ 0.061 χ^2 /NDF: 8933.5/47

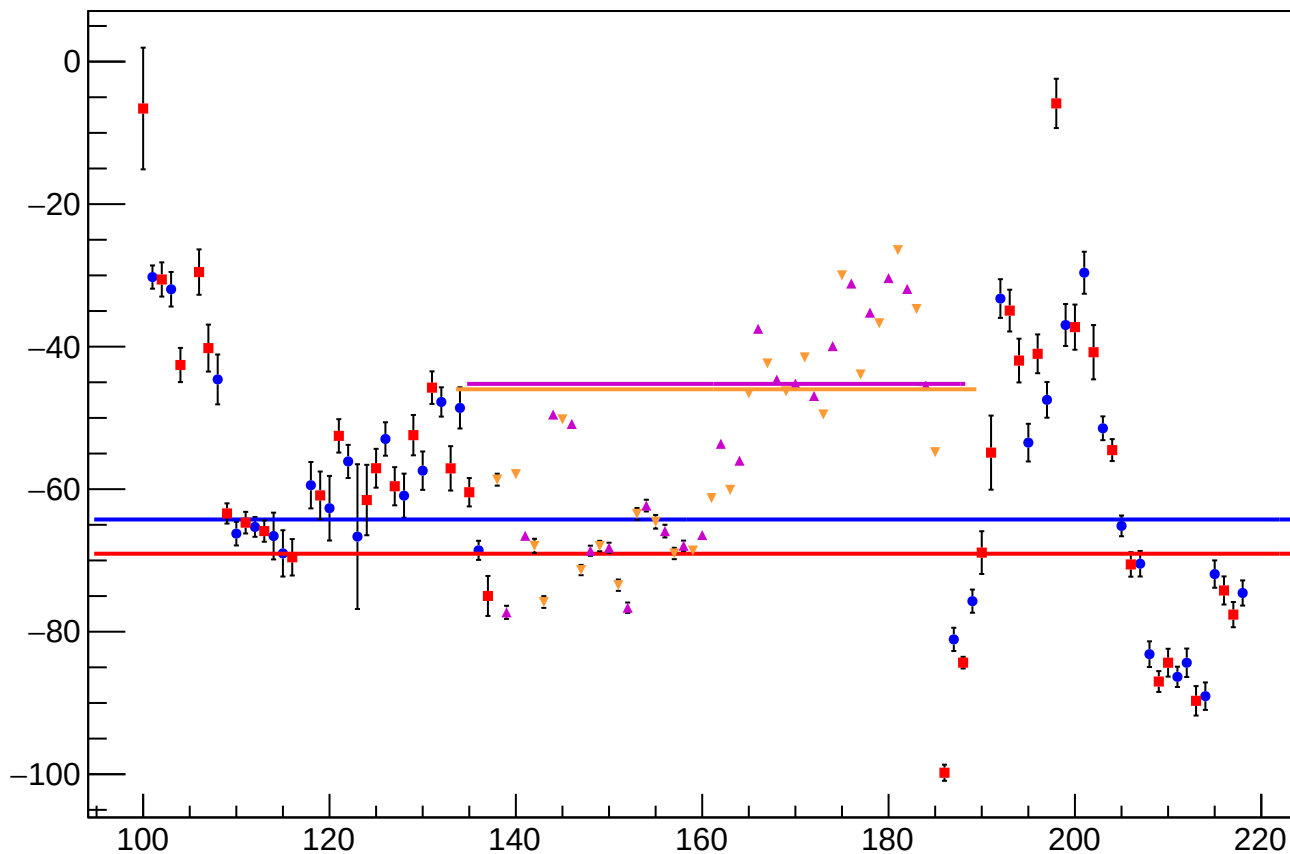
Right: 4.062 $\pm$ 0.203 χ^2 /NDF: 425.7/68

In: 6.263 $\pm$ 0.082 χ^2 /NDF:4200.3/55

Out: 6.311 $\pm$ 0.082 χ^2 /NDF:5290.2/60

All: 6.288 $\pm$ 0.058 χ^2 /NDF: 9490.6/116

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.255 ± 0.357 $\chi^2/\text{NDF}: 2109.6/32$

Left Out: -45.982 ± 0.106 $\chi^2/\text{NDF}: 17360.1/24$

Right Out: -69.059 ± 0.337 $\chi^2/\text{NDF}: 3294.1/35$

Left In: -45.222 ± 0.107 $\chi^2/\text{NDF}: 15600.2/22$

Left: -45.605 ± 0.075 $\chi^2/\text{NDF}: 32985.7/47$

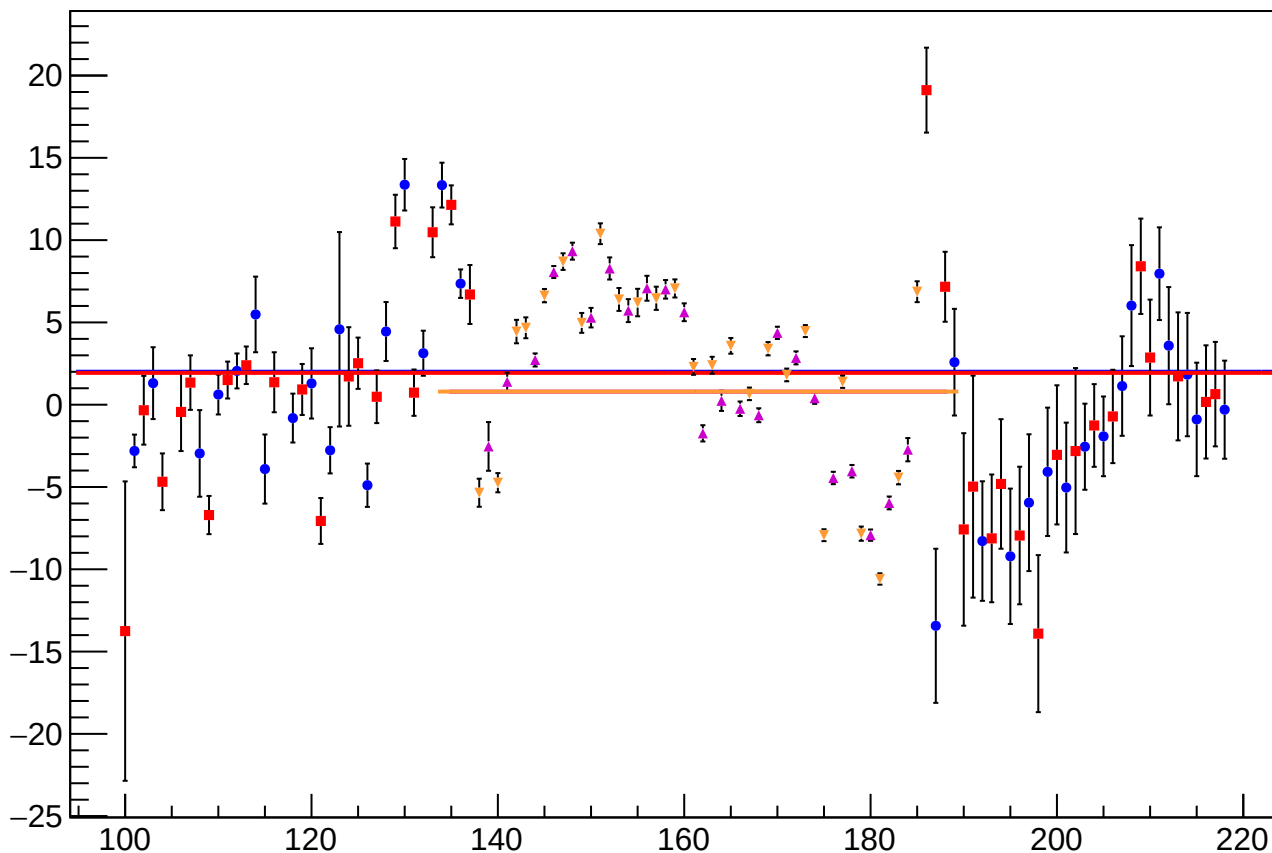
Right: -66.794 ± 0.245 $\chi^2/\text{NDF}: 5499.6/68$

In: -46.798 ± 0.103 $\chi^2/\text{NDF}: 20320.5/55$

Out: -48.069 ± 0.101 $\chi^2/\text{NDF}: 24920.1/60$

All: -47.442 ± 0.072 $\chi^2/\text{NDF}: 45318.2/116$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.004 $\pm$ 0.321 χ^2 /NDF: 292.9/32

Left Out: 0.797 $\pm$ 0.096 χ^2 /NDF:3760.0/24

Right Out: 1.935 $\pm$ 0.326 χ^2 /NDF: 355.2/35

Left In: 0.792 $\pm$ 0.097 χ^2 /NDF:2692.5/22

Left: 0.795 $\pm$ 0.068 χ^2 /NDF: 6452.5/47

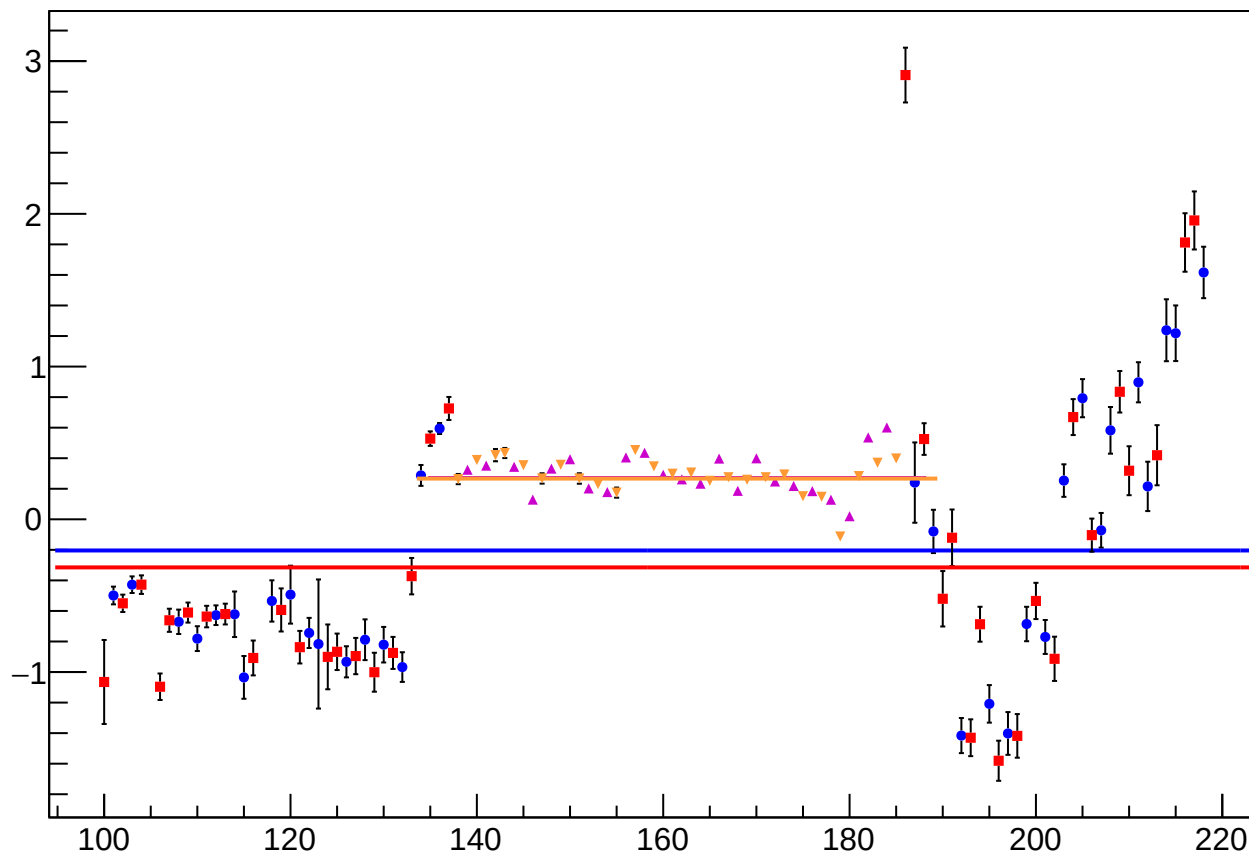
Right: 1.970 $\pm$ 0.229 χ^2 /NDF: 648.1/68

In: 0.893 $\pm$ 0.092 χ^2 /NDF:2998.5/55

Out: 0.887 $\pm$ 0.092 χ^2 /NDF:4126.4/60

All: 0.890 $\pm$ 0.065 χ^2 /NDF: 7124.8/116

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.204 ± 0.017 χ^2/NDF : 1673.9/32

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.315 ± 0.017 χ^2/NDF : 1963.2/35

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

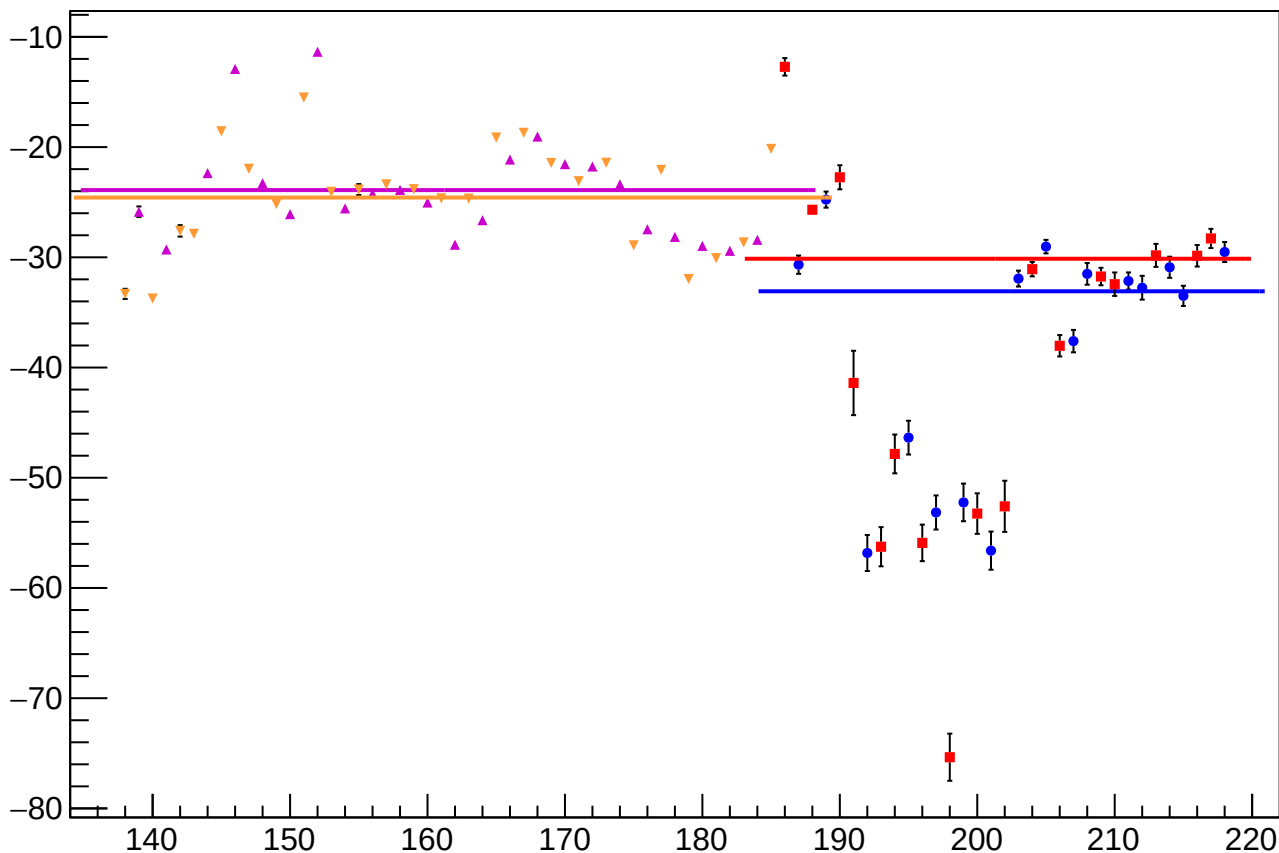
Right: -0.259 ± 0.012 χ^2/NDF : 3659.6/68

In: 0.239 ± 0.004 χ^2/NDF : 3414.0/55

Out: 0.229 ± 0.004 χ^2/NDF : 3818.5/60

All: 0.234 ± 0.003 χ^2/NDF : 7235.0/116

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.082 ± 0.237 χ^2/NDF : 993.8/15
 Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24
 Right Out: -30.130 ± 0.231 χ^2/NDF : 1988.2/16
 Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

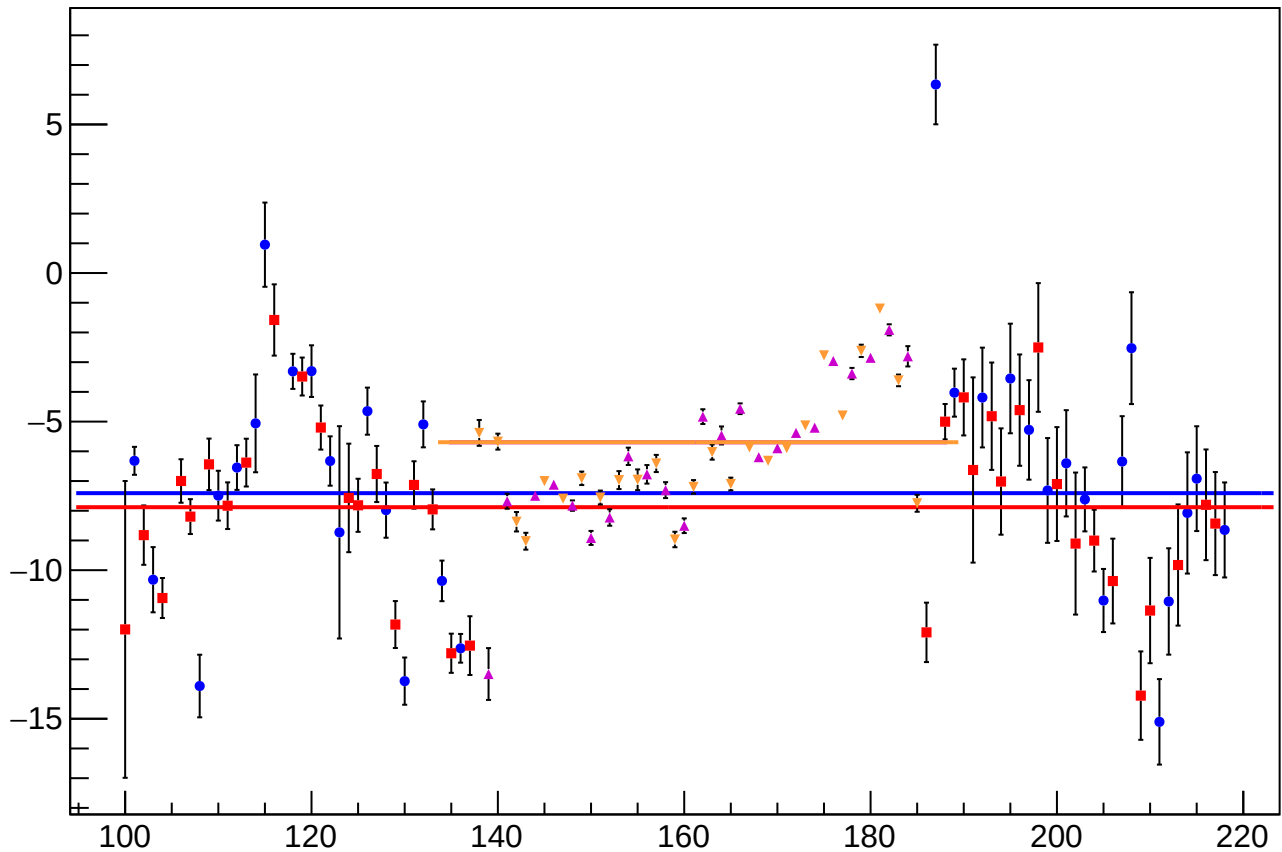
Right: -31.566 ± 0.165 χ^2/NDF : 3061.6/32

In: -24.309 ± 0.050 χ^2/NDF : 11583.0/38

Out: -24.836 ± 0.050 χ^2/NDF : 11130.8/41

All: -24.573 ± 0.035 χ^2/NDF : 22769.7/80

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.408 ± 0.166 χ^2/NDF : 566.4/32

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.881 ± 0.162 χ^2/NDF : 313.0/35

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

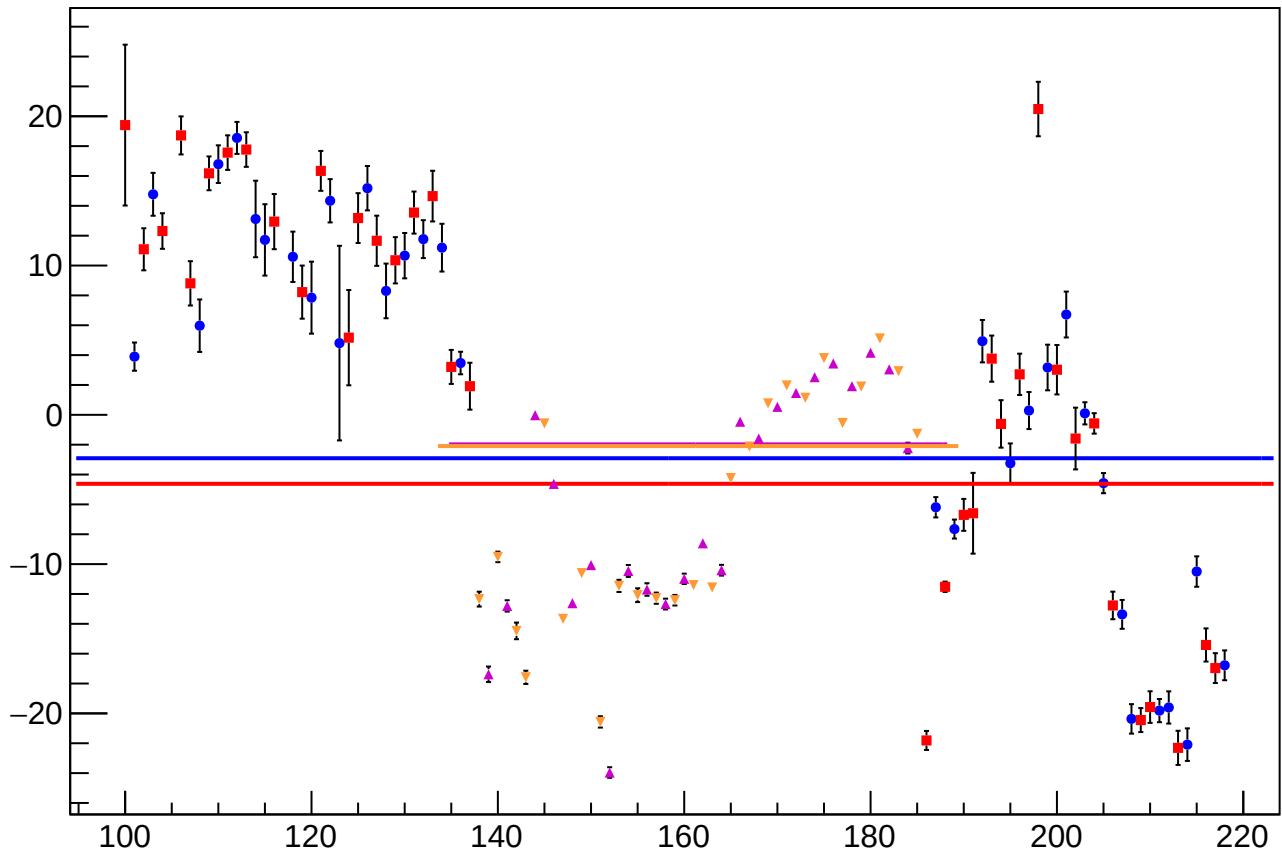
Right: -7.649 ± 0.116 χ^2/NDF : 883.5/68

In: -5.794 ± 0.040 χ^2/NDF : 2976.8/55

Out: -5.826 ± 0.040 χ^2/NDF : 2742.1/60

All: -5.810 ± 0.028 χ^2/NDF : 5719.2/116

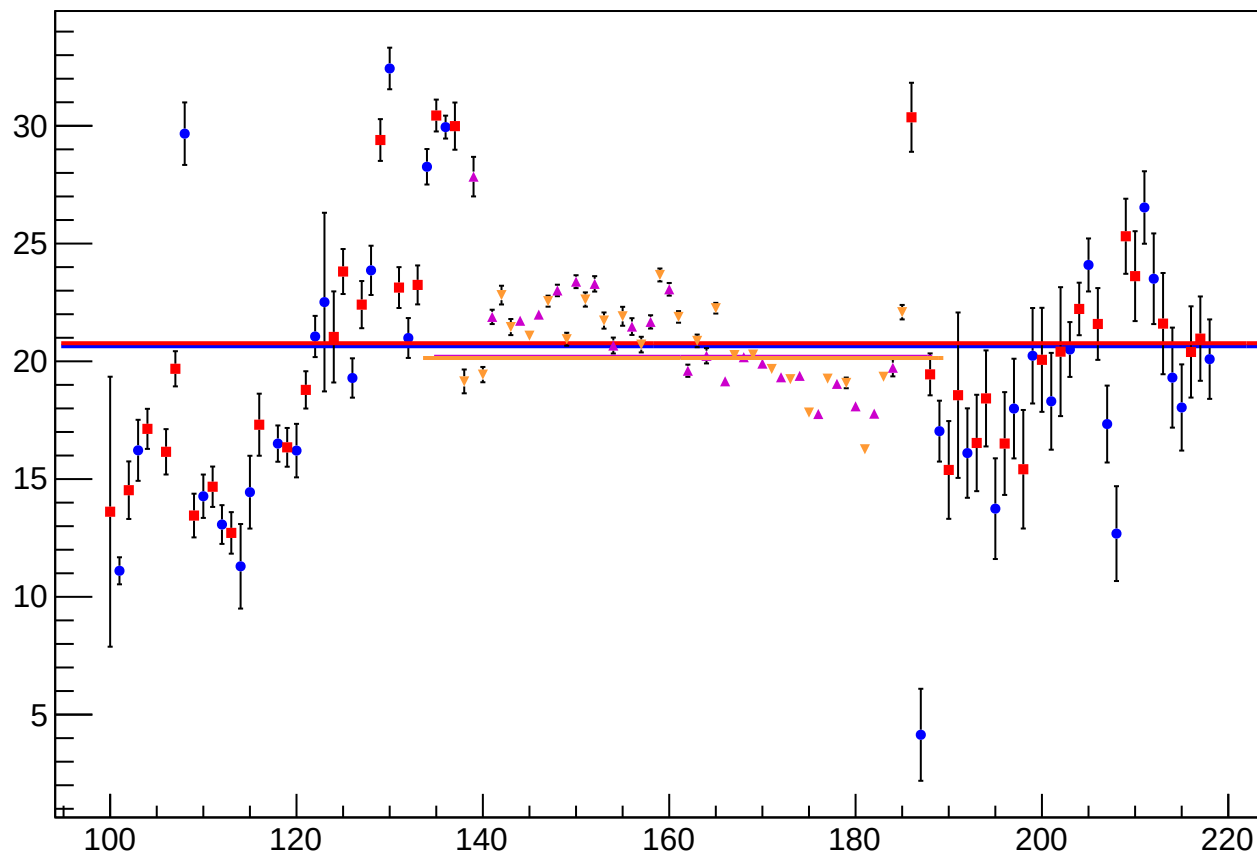
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.907 ± 0.191 χ^2/NDF : 3617.9/32
 Left Out: -2.092 ± 0.051 χ^2/NDF : 16305.3/24
 Right Out: -4.620 ± 0.179 χ^2/NDF : 5491.9/35
 Left In: -1.980 ± 0.051 χ^2/NDF : 15382.3/22

Left: -2.036 ± 0.036 χ^2/NDF : 31690.0/47
 Right: -3.822 ± 0.130 χ^2/NDF : 9152.6/68
 In: -2.043 ± 0.050 χ^2/NDF : 19022.1/55
 Out: -2.286 ± 0.049 χ^2/NDF : 21982.4/60
 All: -2.164 ± 0.035 χ^2/NDF : 41016.6/116

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.640 $\pm$ 0.188 χ^2 /NDF: 1359.7/32

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.769 $\pm$ 0.189 χ^2 /NDF: 800.6/35

Left In: 20.194 $\pm$ 0.046 χ^2 /NDF:1447.4/22

Left: 20.167 $\pm$ 0.032 χ^2 /NDF: 2867.2/47

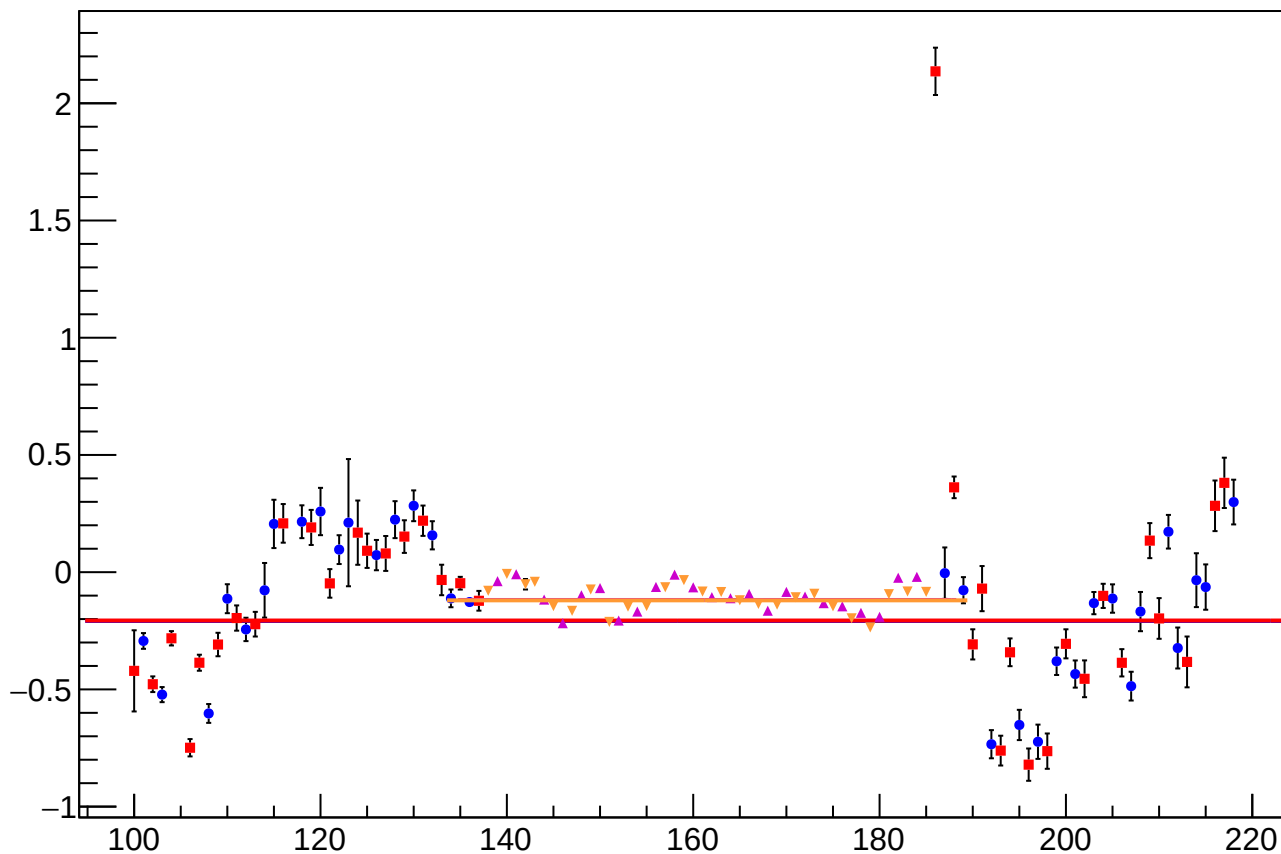
Right: 20.704 $\pm$ 0.133 χ^2 /NDF: 2160.5/68

In: 20.219 $\pm$ 0.045 χ^2 /NDF:2812.3/55

Out: 20.176 $\pm$ 0.045 χ^2 /NDF:2230.1/60

All: 20.197 $\pm$ 0.032 χ^2 /NDF: 5042.9/116

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.208 ± 0.009 $\chi^2/\text{NDF}: 762.4/32$

Left Out: -0.120 ± 0.002 $\chi^2/\text{NDF}: 530.4/24$

Right Out: -0.206 ± 0.009 $\chi^2/\text{NDF}: 1545.9/35$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 721.8/22$

Left: -0.119 ± 0.001 $\chi^2/\text{NDF}: 1252.4/47$

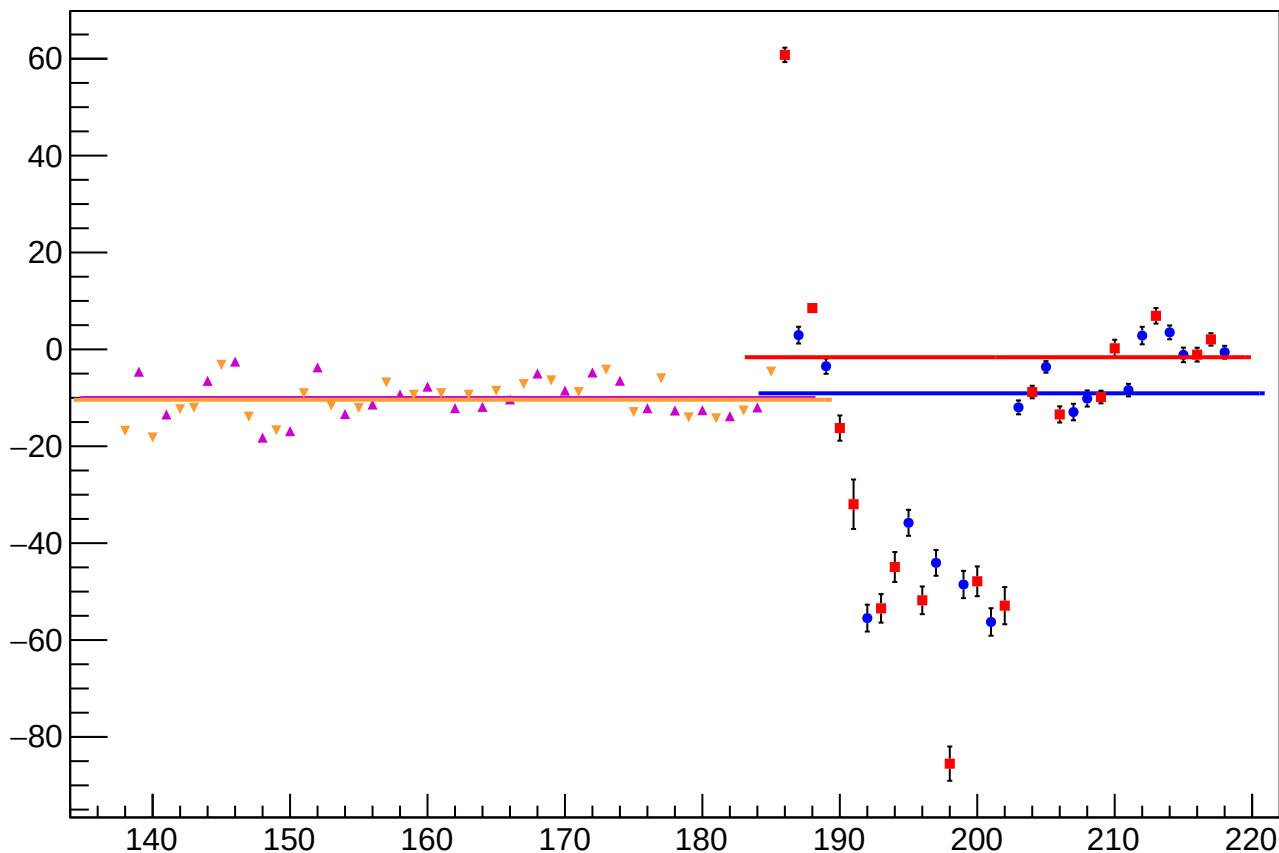
Right: -0.207 ± 0.007 $\chi^2/\text{NDF}: 2308.4/68$

In: -0.123 ± 0.002 $\chi^2/\text{NDF}: 1571.0/55$

Out: -0.124 ± 0.002 $\chi^2/\text{NDF}: 2159.8/60$

All: -0.124 ± 0.001 $\chi^2/\text{NDF}: 3730.9/116$

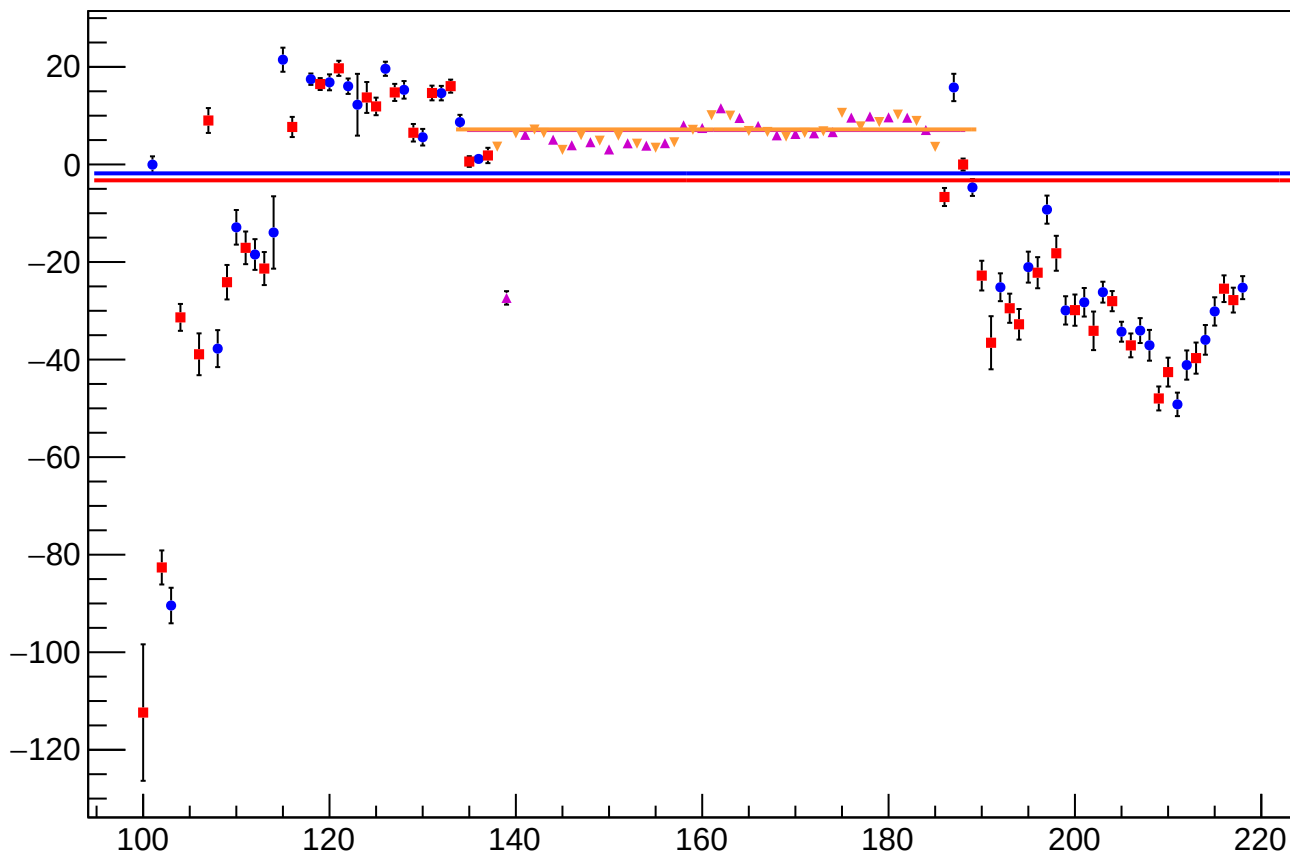
reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.068 ± 0.419 χ^2/NDF : 1305.4/15
 Left Out: -10.391 ± 0.088 χ^2/NDF : 2111.6/24
 Right Out: -1.621 ± 0.411 χ^2/NDF : 3909.9/16
 Left In: -10.036 ± 0.090 χ^2/NDF : 1758.7/22

Left: -10.217 ± 0.063 χ^2/NDF : 3878.3/47
 Right: -5.271 ± 0.293 χ^2/NDF : 5376.3/32
 In: -9.994 ± 0.088 χ^2/NDF : 3069.2/38
 Out: -10.007 ± 0.086 χ^2/NDF : 6457.2/41
 All: -10.001 ± 0.061 χ^2/NDF : 9526.4/80

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.826 ± 0.344 χ^2/NDF : 3736.7/32

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: -3.255 ± 0.353 χ^2/NDF : 3539.8/35

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

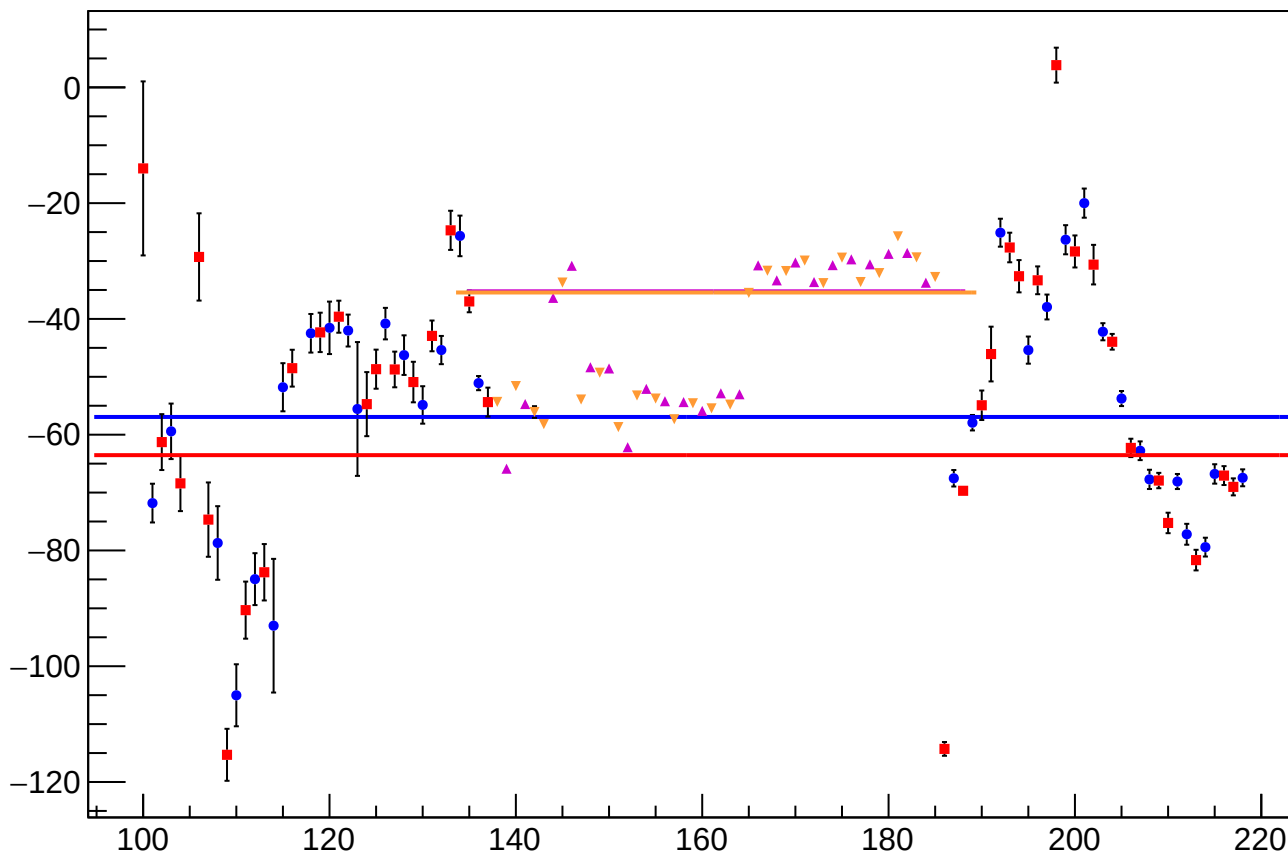
Right: -2.521 ± 0.246 χ^2/NDF : 7284.9/68

In: 6.657 ± 0.073 χ^2/NDF : 5910.8/55

Out: 6.751 ± 0.072 χ^2/NDF : 5294.4/60

All: 6.704 ± 0.051 χ^2/NDF : 11206.0/116

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -56.937 ± 0.362 χ^2/NDF : 1725.1/32

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -63.535 ± 0.347 χ^2/NDF : 4360.6/35

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

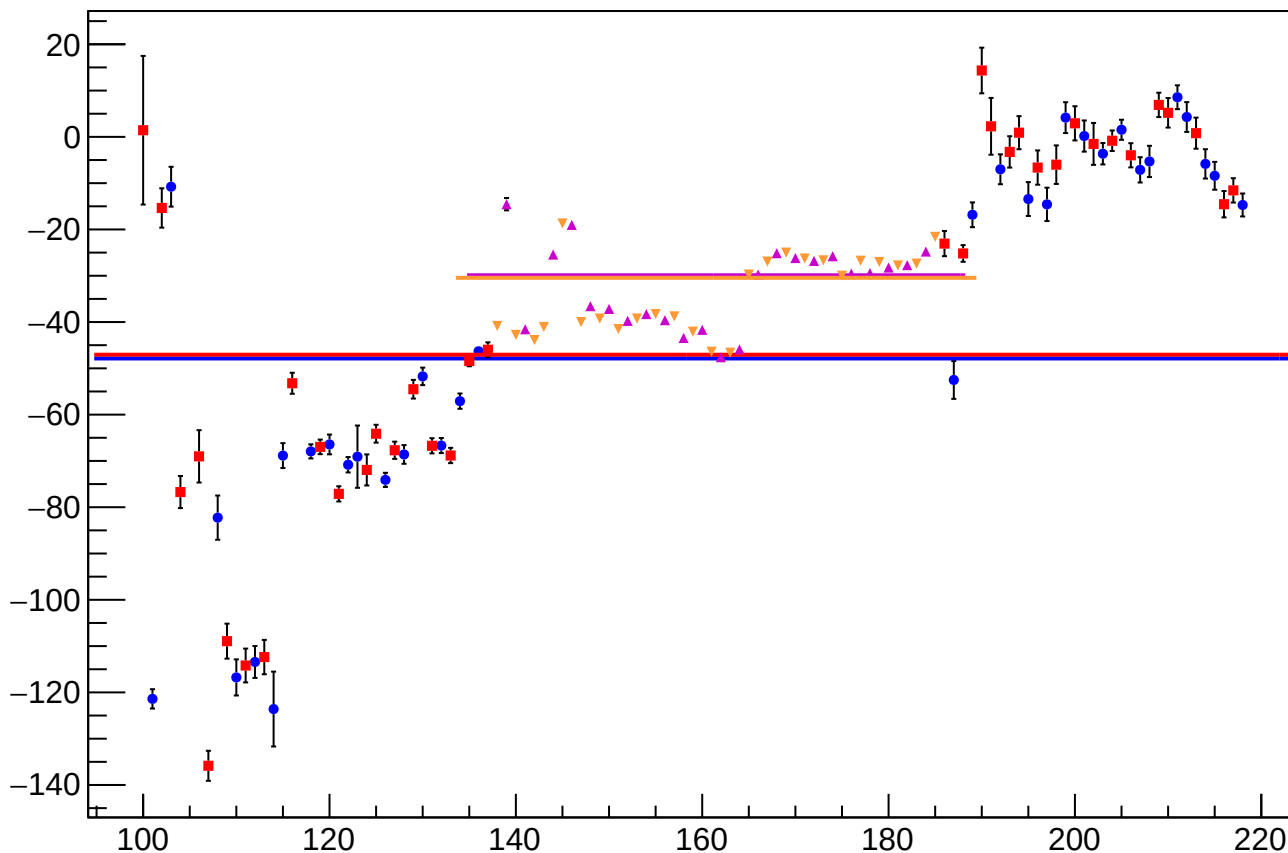
Right: -60.375 ± 0.250 χ^2/NDF : 6259.1/68

In: -36.498 ± 0.087 χ^2/NDF : 16721.5/55

Out: -37.172 ± 0.086 χ^2/NDF : 23305.9/60

All: -36.840 ± 0.061 χ^2/NDF : 40057.4/116

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -47.868 ± 0.383 $\chi^2/\text{NDF}: 6669.3/32$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -47.058 ± 0.403 $\chi^2/\text{NDF}: 6114.0/35$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

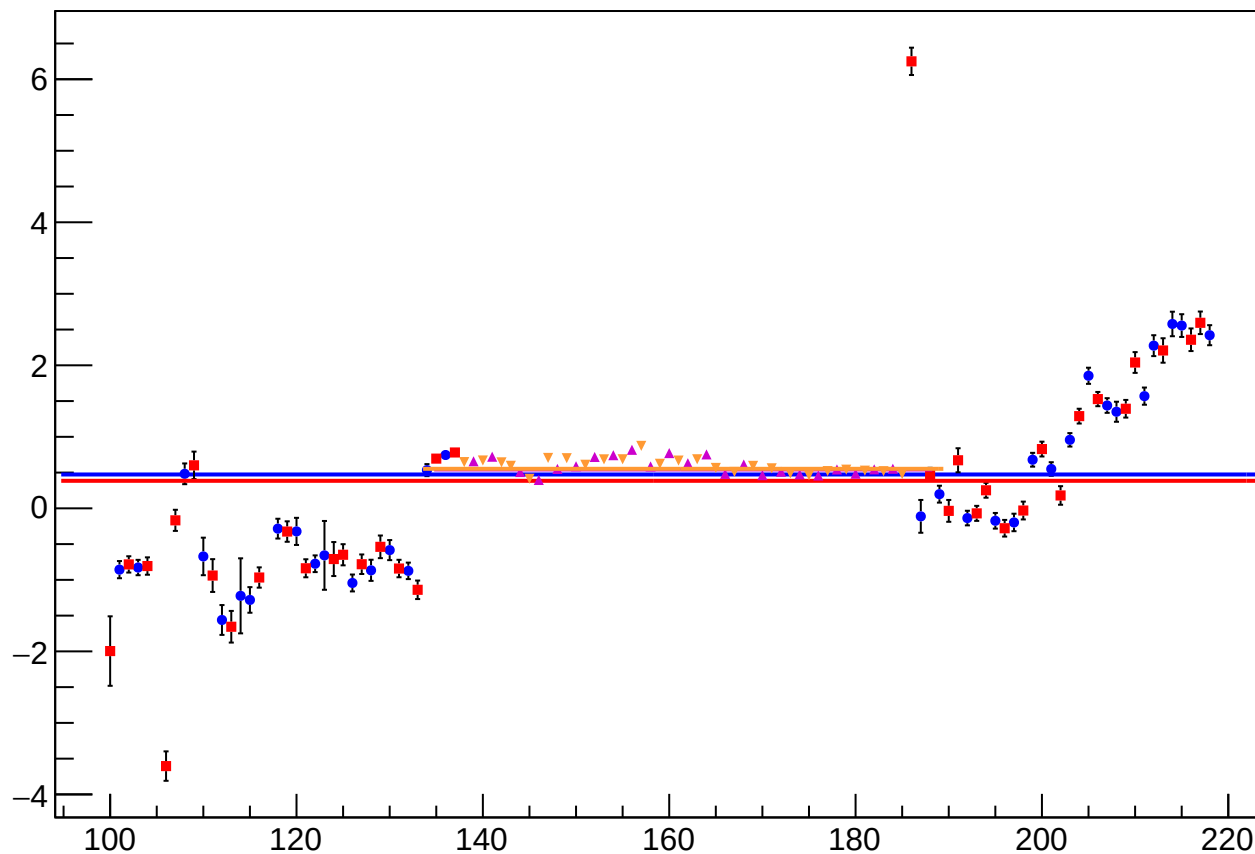
Right: -47.484 ± 0.278 $\chi^2/\text{NDF}: 12785.5/68$

In: -30.691 ± 0.081 $\chi^2/\text{NDF}: 15890.7/55$

Out: -31.100 ± 0.080 $\chi^2/\text{NDF}: 15912.0/60$

All: -30.898 ± 0.057 $\chi^2/\text{NDF}: 31815.7/116$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.474 $\pm$ 0.019 χ^2 /NDF: 2337.6/32

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.385 $\pm$ 0.020 χ^2 /NDF: 3351.1/35

Left In: 0.544 $\pm$ 0.004 χ^2 /NDF:655.9/22

Left: 0.548 $\pm$ 0.003 χ^2 /NDF: 1200.9/47

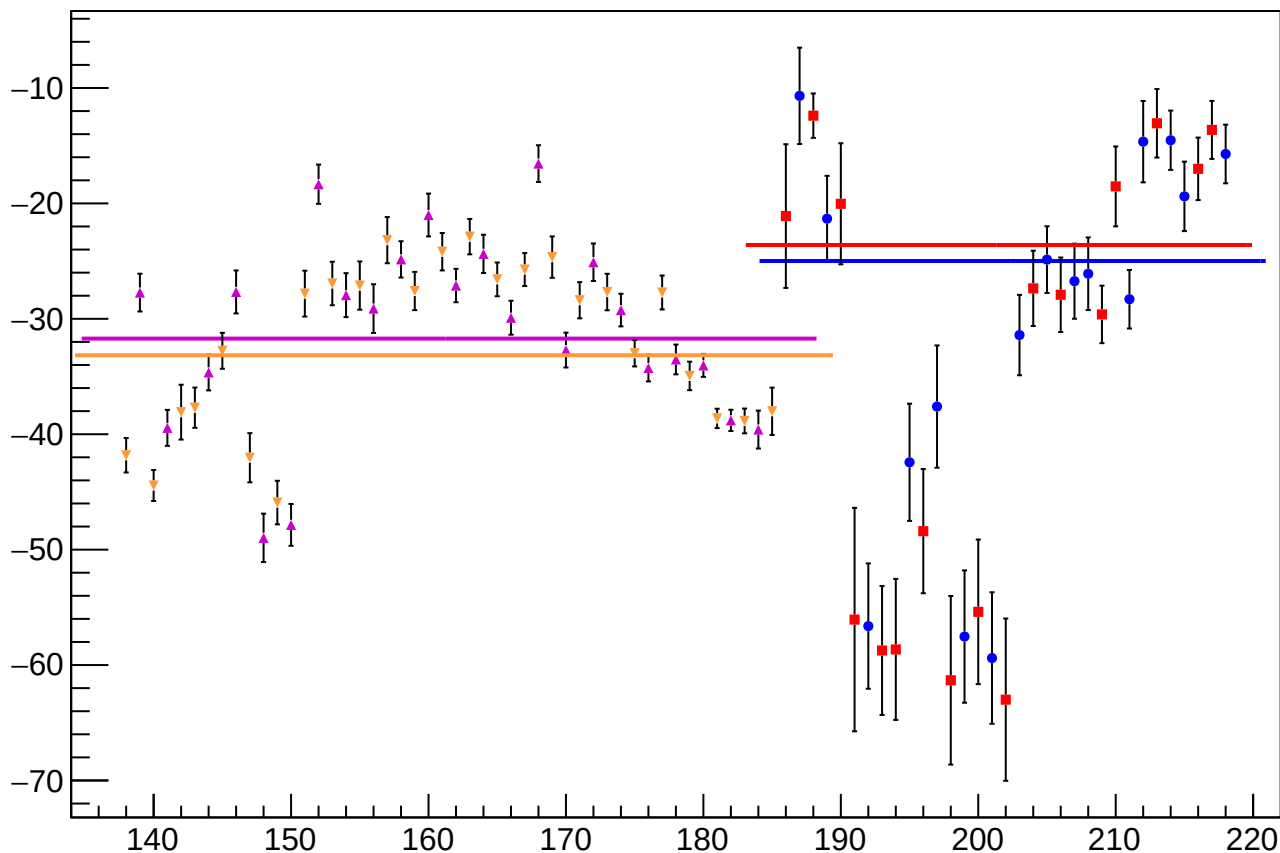
Right: 0.432 $\pm$ 0.014 χ^2 /NDF: 5699.3/68

In: 0.541 $\pm$ 0.004 χ^2 /NDF:3007.0/55

Out: 0.547 $\pm$ 0.004 χ^2 /NDF:3963.2/60

All: 0.544 $\pm$ 0.003 χ^2 /NDF: 6971.6/116

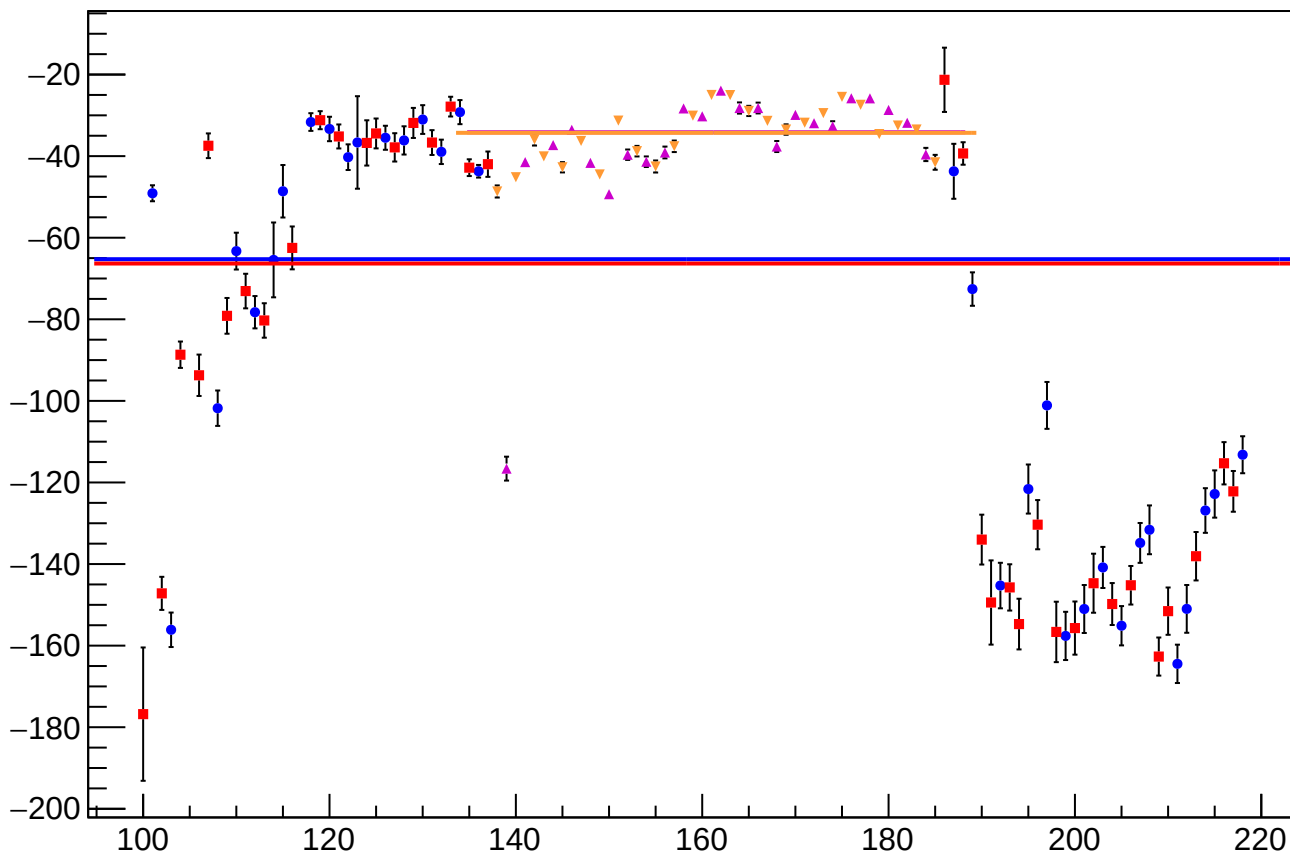
reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -24.989 ± 0.861 χ^2/NDF : 180.3/15
 Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24
 Right Out: -23.604 ± 0.863 χ^2/NDF : 268.7/16
 Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47
 Right: -24.299 ± 0.609 χ^2/NDF : 450.3/32
 In: -30.947 ± 0.291 χ^2/NDF : 776.6/38
 Out: -32.125 ± 0.284 χ^2/NDF : 878.1/41
 All: -31.551 ± 0.203 χ^2/NDF : 1663.2/80

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -65.268 ± 0.640 $\chi^2/\text{NDF}: 4427.9/32$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -66.327 ± 0.659 $\chi^2/\text{NDF}: 4622.2/35$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

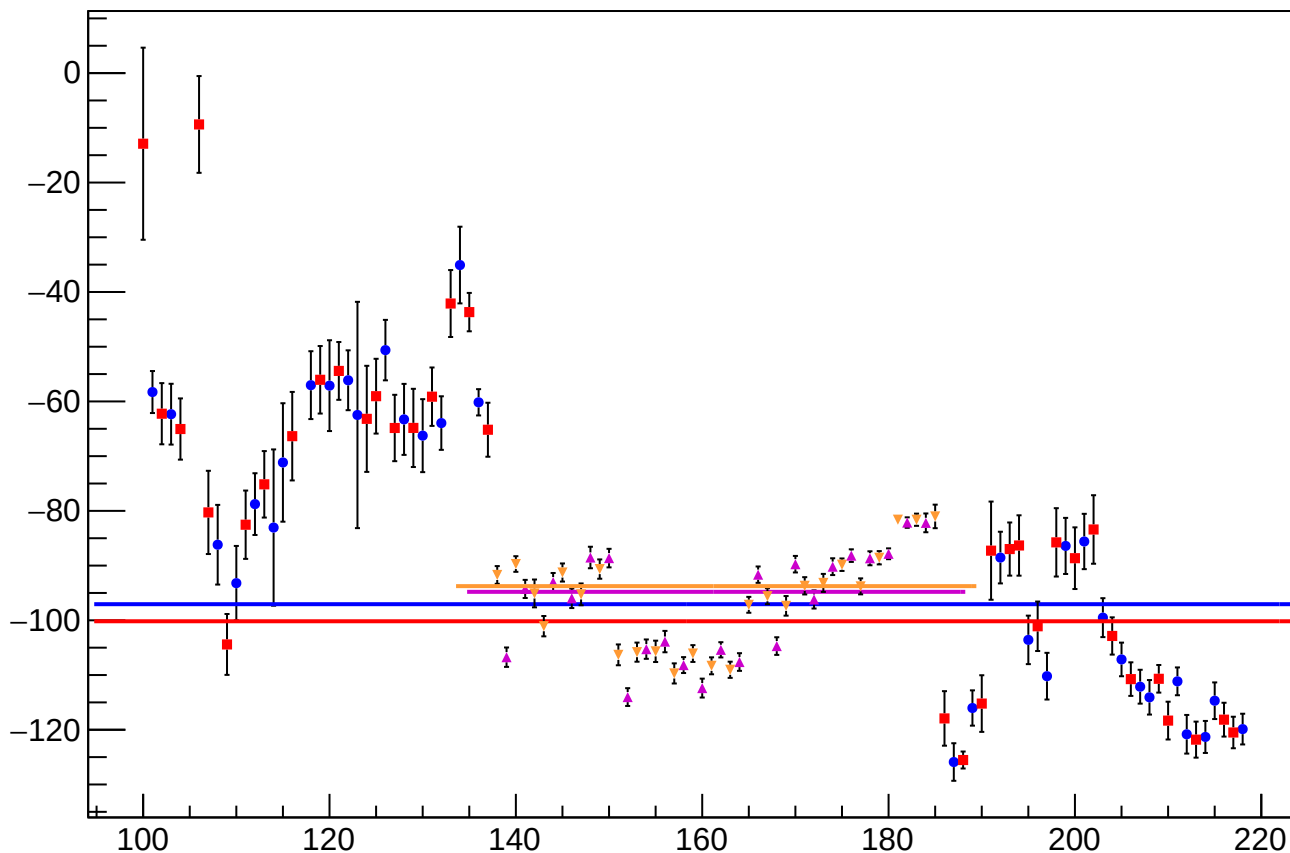
Right: -65.782 ± 0.459 $\chi^2/\text{NDF}: 9051.4/68$

In: -38.289 ± 0.234 $\chi^2/\text{NDF}: 7930.8/55$

Out: -38.082 ± 0.227 $\chi^2/\text{NDF}: 7402.8/60$

All: -38.182 ± 0.163 $\chi^2/\text{NDF}: 15334.0/116$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -97.054 ± 0.717 $\chi^2/\text{NDF}: 1196.0/32$

Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$

Right Out: -100.174 ± 0.710 $\chi^2/\text{NDF}: 1465.2/35$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

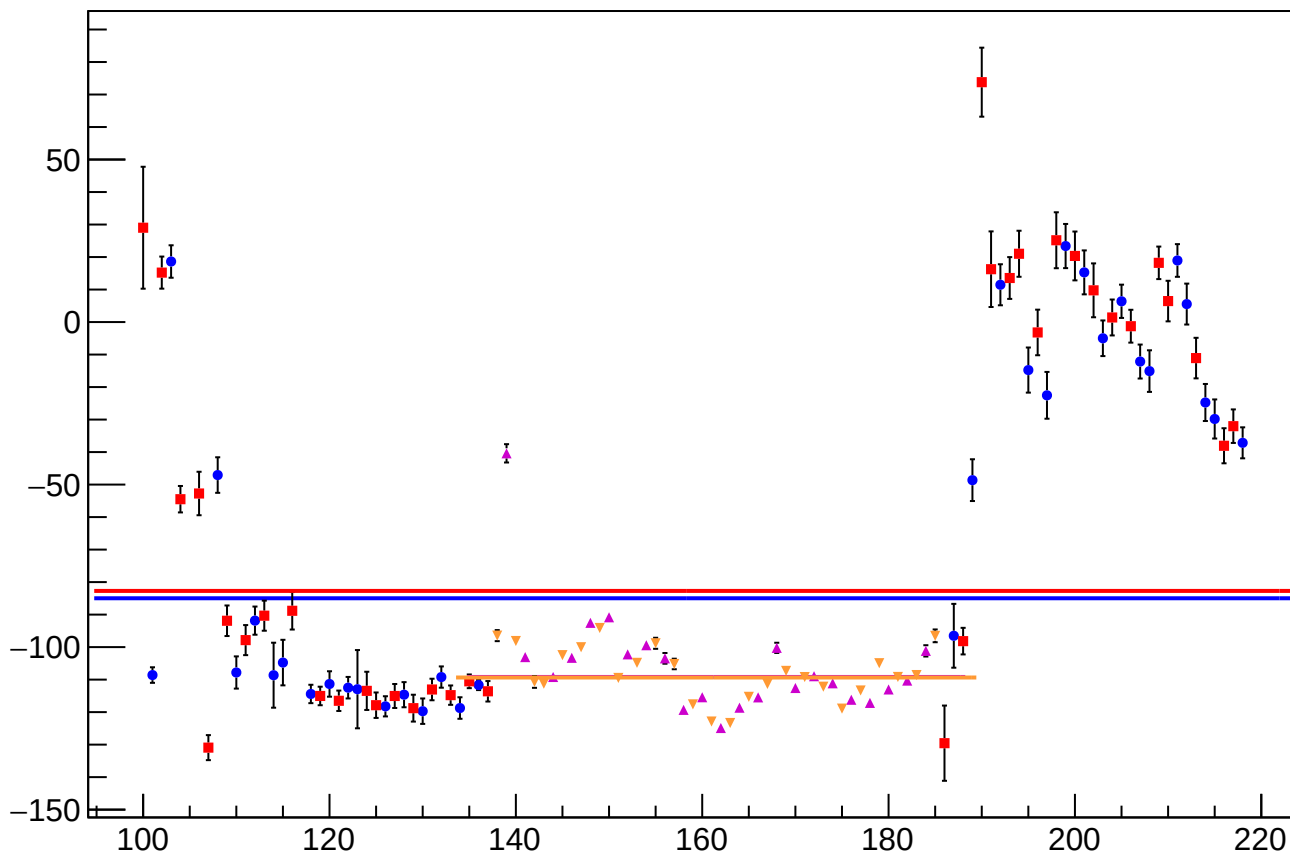
Right: -98.631 ± 0.504 $\chi^2/\text{NDF}: 2670.7/68$

In: -95.148 ± 0.283 $\chi^2/\text{NDF}: 2179.1/55$

Out: -94.737 ± 0.278 $\chi^2/\text{NDF}: 2417.6/60$

All: -94.939 ± 0.198 $\chi^2/\text{NDF}: 4597.7/116$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -84.975 ± 0.719 $\chi^2/\text{NDF}: 4240.6/32$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -82.713 ± 0.751 $\chi^2/\text{NDF}: 4405.7/35$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

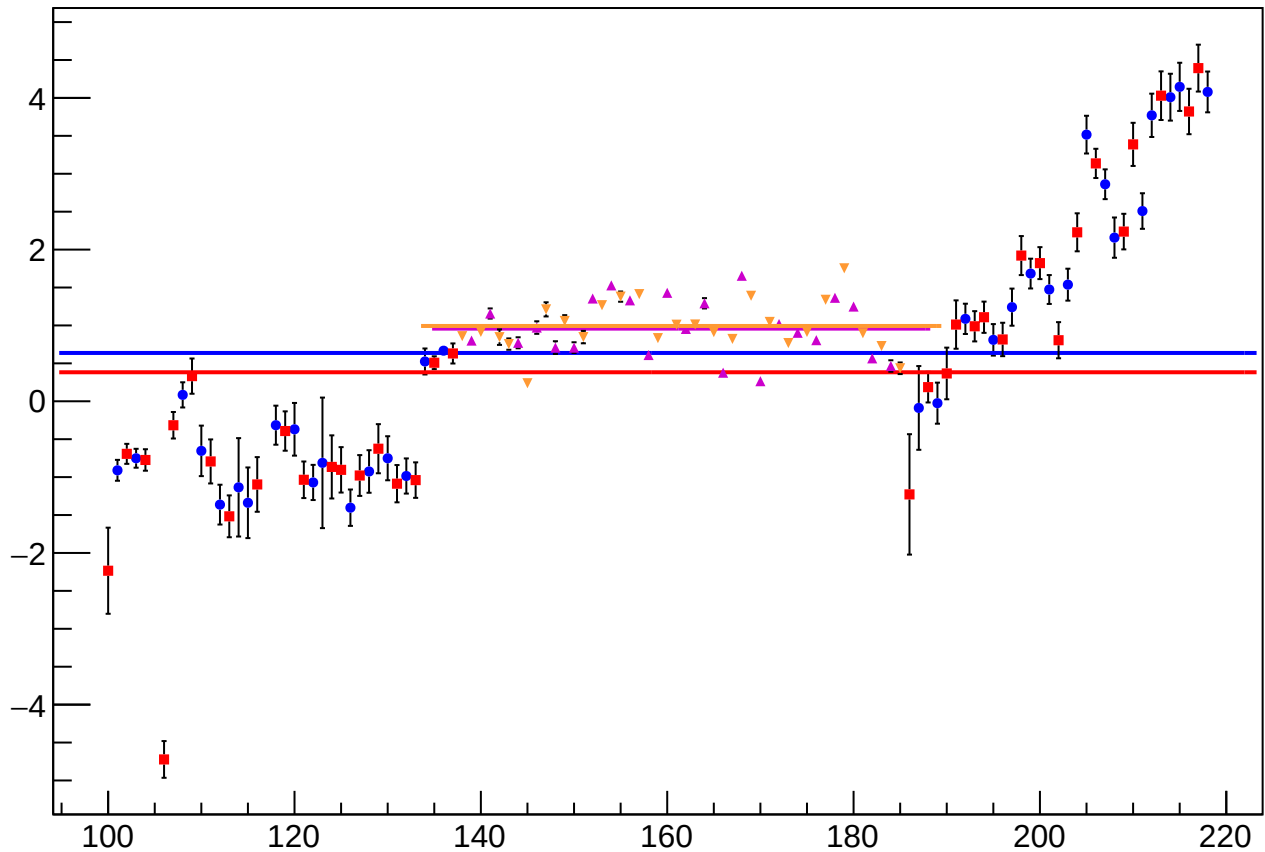
Right: -83.894 ± 0.519 $\chi^2/\text{NDF}: 8651.0/68$

In: -105.995 ± 0.261 $\chi^2/\text{NDF}: 6727.3/55$

Out: -106.278 ± 0.255 $\chi^2/\text{NDF}: 6345.4/60$

All: -106.139 ± 0.182 $\chi^2/\text{NDF}: 13073.3/116$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.637 ± 0.035 χ^2/NDF : 1584.7/32

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: 0.382 ± 0.036 χ^2/NDF : 1861.9/35

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

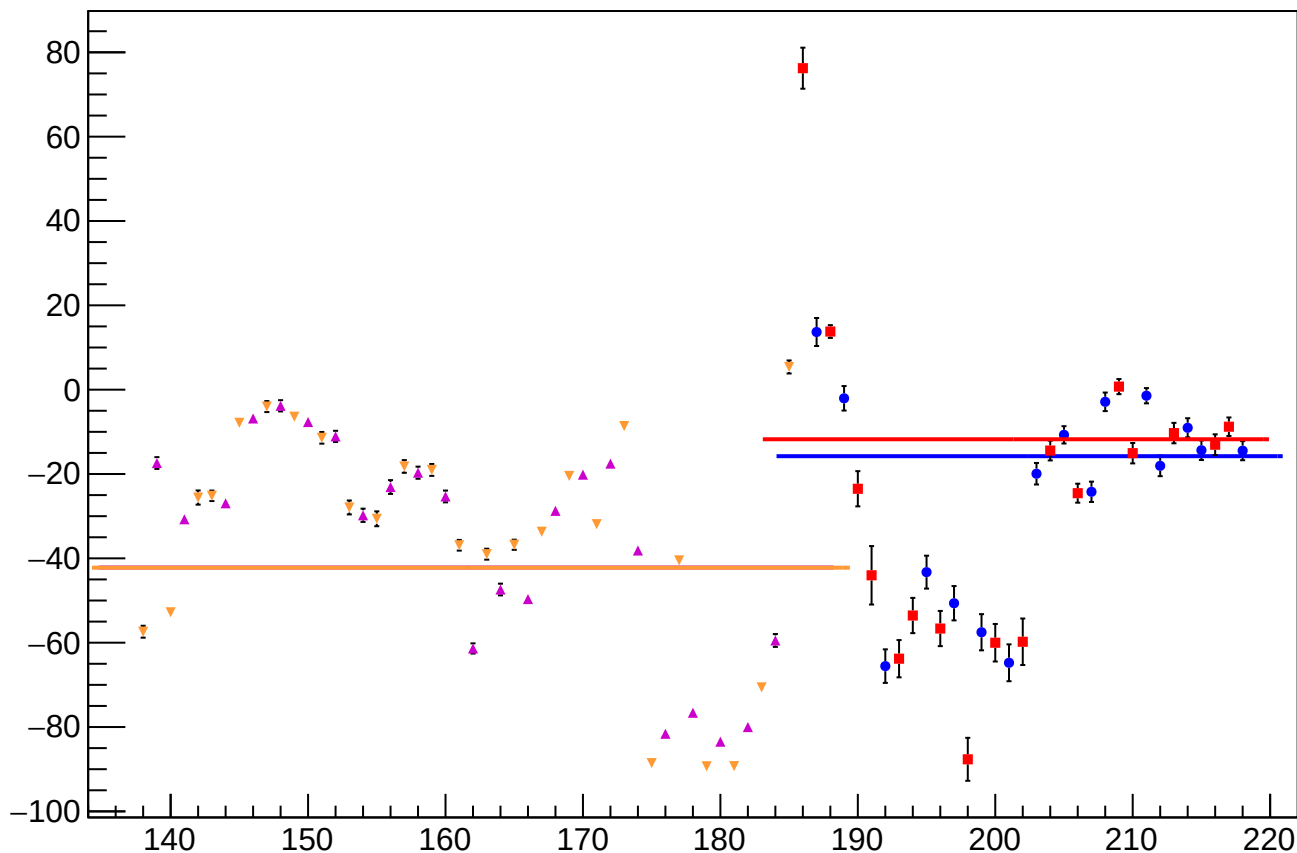
Right: 0.514 ± 0.025 χ^2/NDF : 3472.9/68

In: 0.920 ± 0.012 χ^2/NDF : 2555.1/55

Out: 0.927 ± 0.012 χ^2/NDF : 2762.7/60

All: 0.923 ± 0.008 χ^2/NDF : 5318.0/116

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.773 ± 0.657 $\chi^2/\text{NDF}: 729.5/15$

Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$

Right Out: -11.760 ± 0.667 $\chi^2/\text{NDF}: 1499.4/16$

Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$

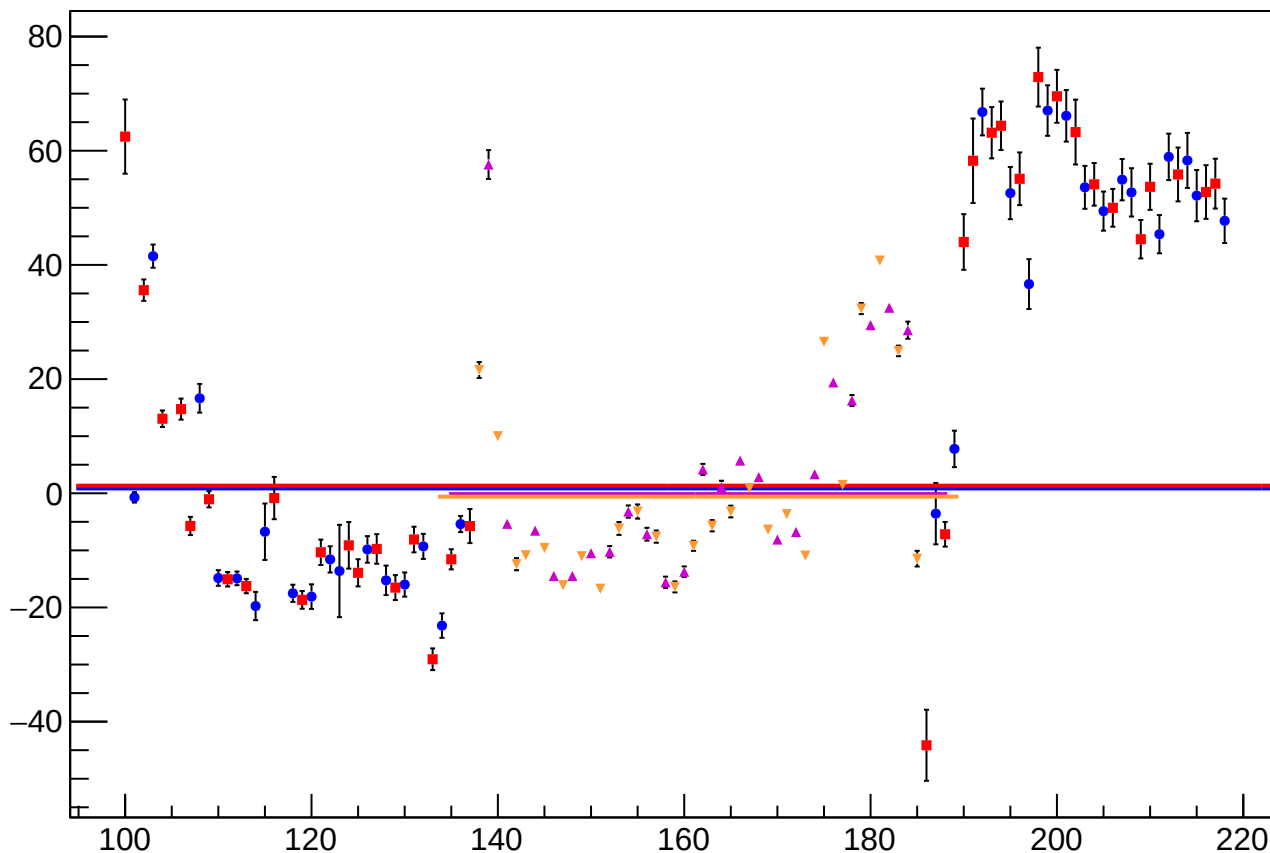
Right: -13.797 ± 0.468 $\chi^2/\text{NDF}: 2247.3/32$

In: -39.355 ± 0.215 $\chi^2/\text{NDF}: 16750.0/38$

Out: -39.172 ± 0.211 $\chi^2/\text{NDF}: 21687.4/41$

All: -39.262 ± 0.150 $\chi^2/\text{NDF}: 38437.8/80$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.851 ± 0.396 $\chi^2/\text{NDF}: 3831.4/32$

Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$

Right Out: 1.331 ± 0.394 $\chi^2/\text{NDF}: 4014.3/35$

Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$

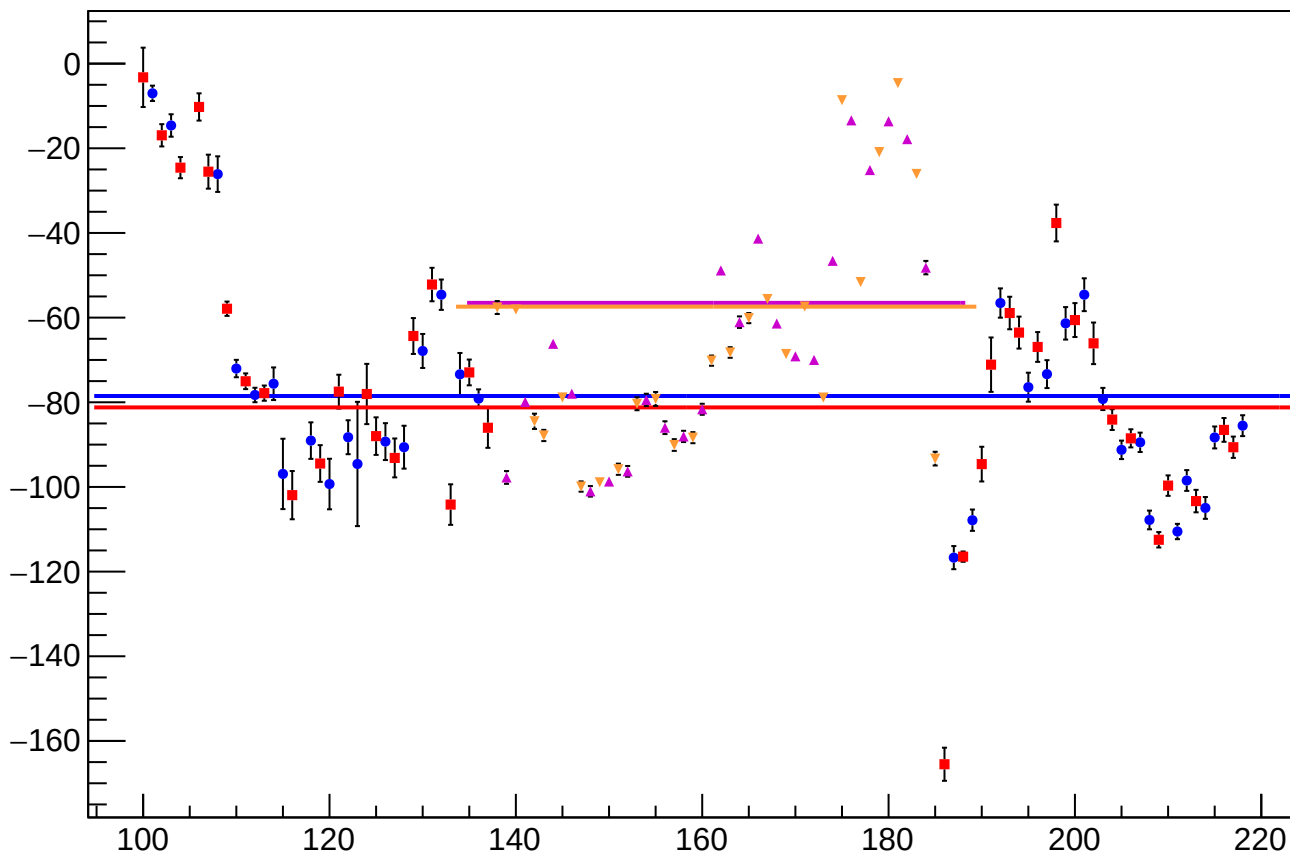
Right: 1.092 ± 0.279 $\chi^2/\text{NDF}: 7846.5/68$

In: 0.027 ± 0.163 $\chi^2/\text{NDF}: 10699.1/55$

Out: -0.275 ± 0.159 $\chi^2/\text{NDF}: 12785.2/60$

All: -0.128 ± 0.114 $\chi^2/\text{NDF}: 23486.0/116$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -78.518 ± 0.490 χ^2/NDF : 3562.5/32

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -81.211 ± 0.472 χ^2/NDF : 4227.8/35

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

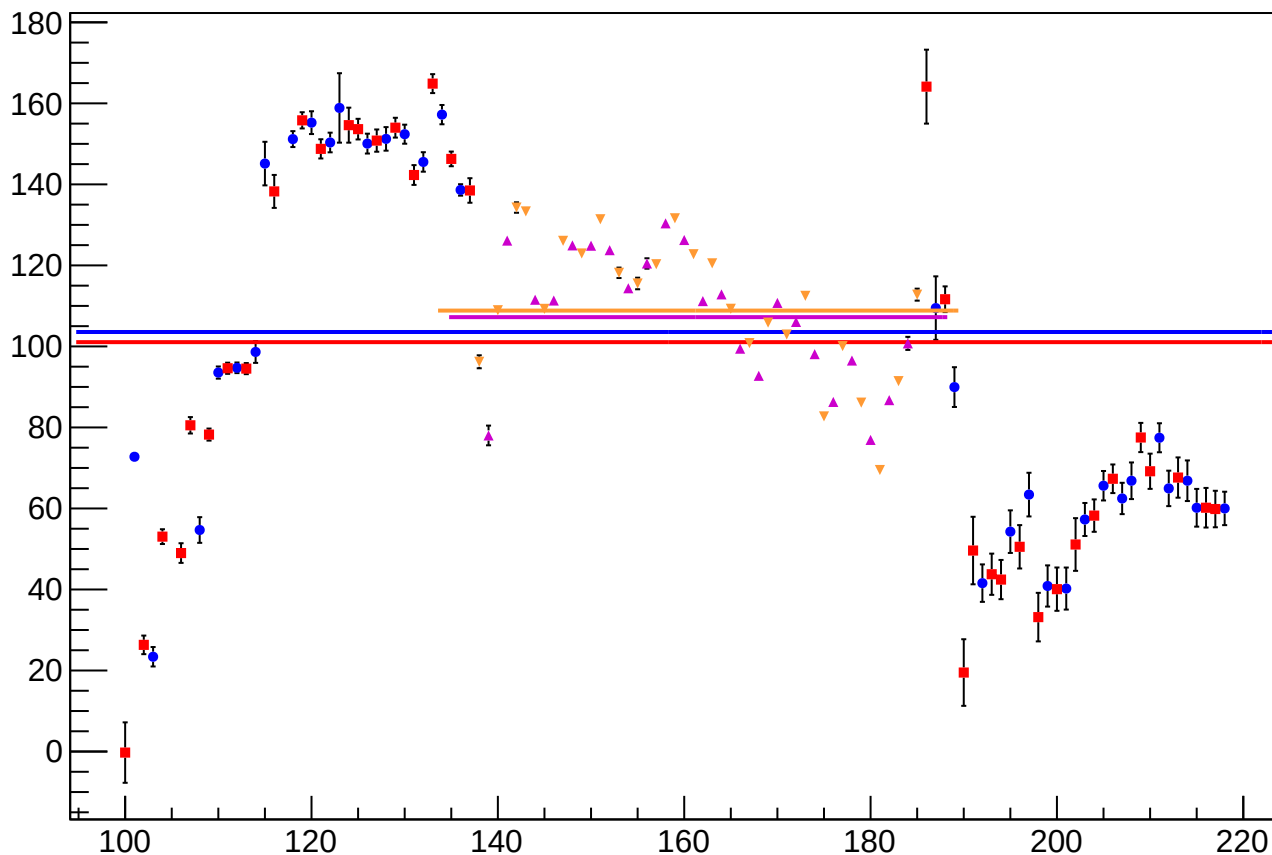
Right: -79.916 ± 0.340 χ^2/NDF : 7806.0/68

In: -60.407 ± 0.206 χ^2/NDF : 21574.2/55

Out: -61.769 ± 0.202 χ^2/NDF : 24912.2/60

All: -61.102 ± 0.144 χ^2/NDF : 46508.7/116

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 103.560 $\pm$ 0.450 χ^2 /NDF: 7534.7/32

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 101.055 $\pm$ 0.450 χ^2 /NDF: 8577.3/35

Left In: 107.225 $\pm$ 0.202 χ^2 /NDF: 5565.3/22

Left: 108.056 $\pm$ 0.141 χ^2 /NDF: 12998.4/47

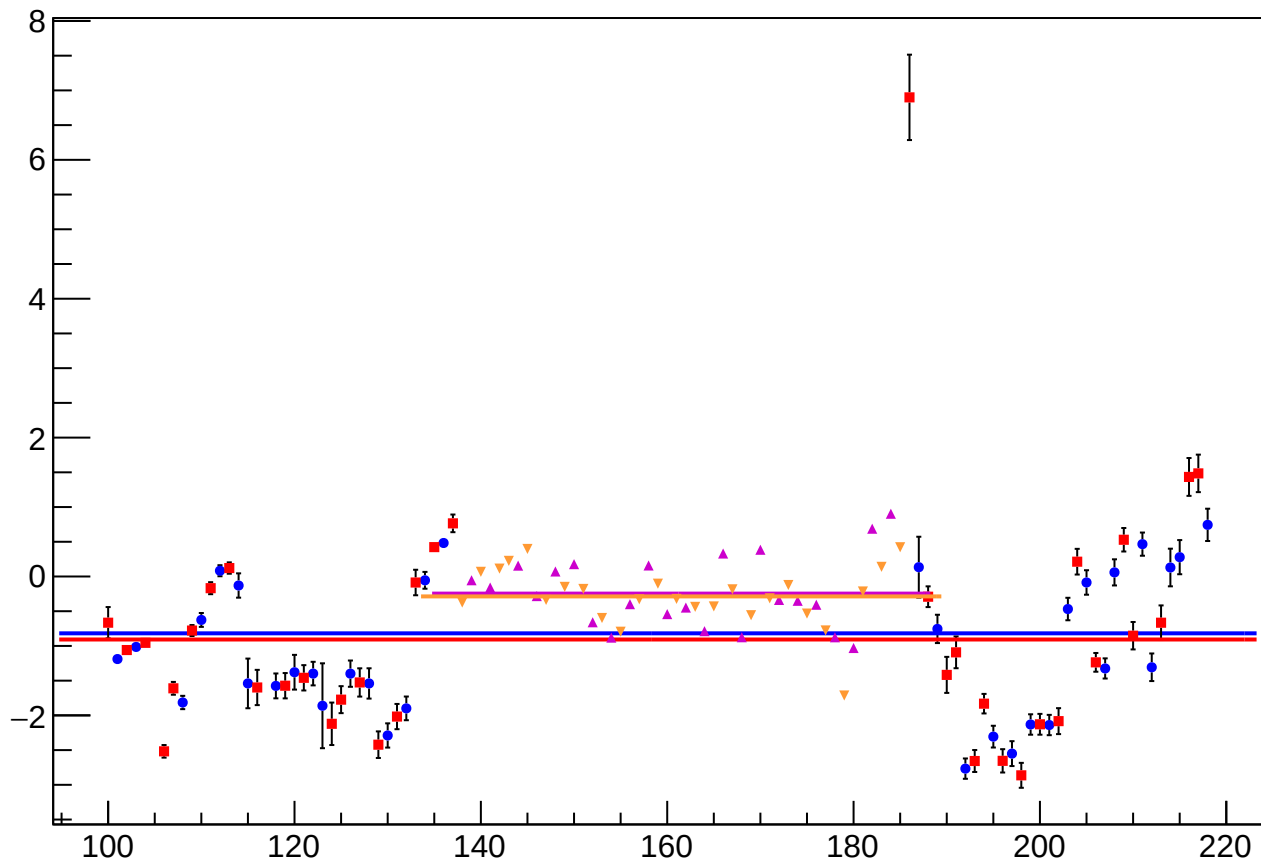
Right: 102.308 $\pm$ 0.318 χ^2 /NDF: 16127.5/68

In: 106.608 $\pm$ 0.185 χ^2 /NDF: 13155.2/55

Out: 107.589 $\pm$ 0.181 χ^2 /NDF: 16229.1/60

All: 107.109 $\pm$ 0.129 χ^2 /NDF: 29398.7/116

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.819 ± 0.022 χ^2/NDF : 1738.3/32

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.907 ± 0.021 χ^2/NDF : 2266.3/35

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

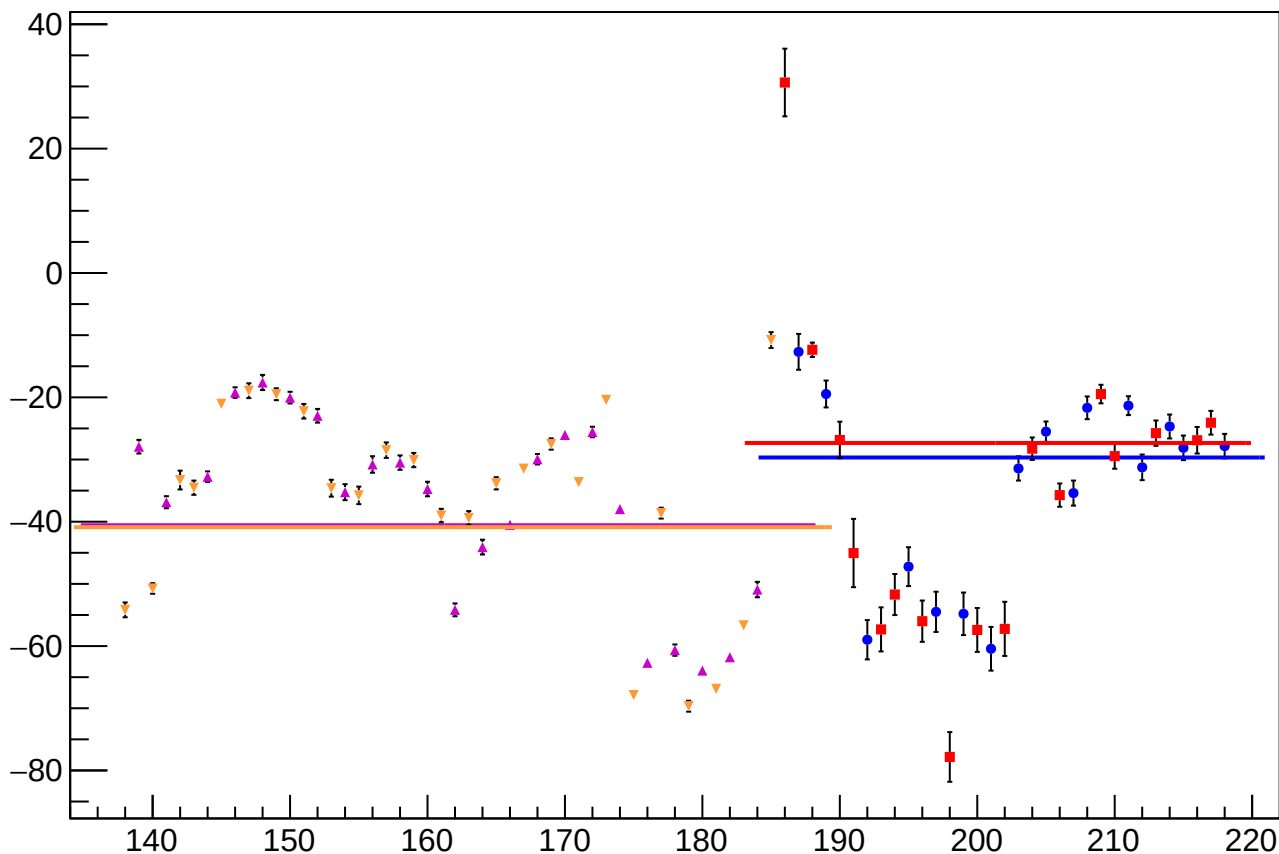
Right: -0.865 ± 0.015 χ^2/NDF : 4012.9/68

In: -0.330 ± 0.009 χ^2/NDF : 5088.0/55

Out: -0.381 ± 0.008 χ^2/NDF : 5031.4/60

All: -0.356 ± 0.006 χ^2/NDF : 10137.8/116

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.672 ± 0.540 χ^2/NDF : 437.4/15

Left Out: -40.880 ± 0.186 χ^2/NDF : 9123.2/24

Right Out: -27.336 ± 0.542 χ^2/NDF : 824.9/16

Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47

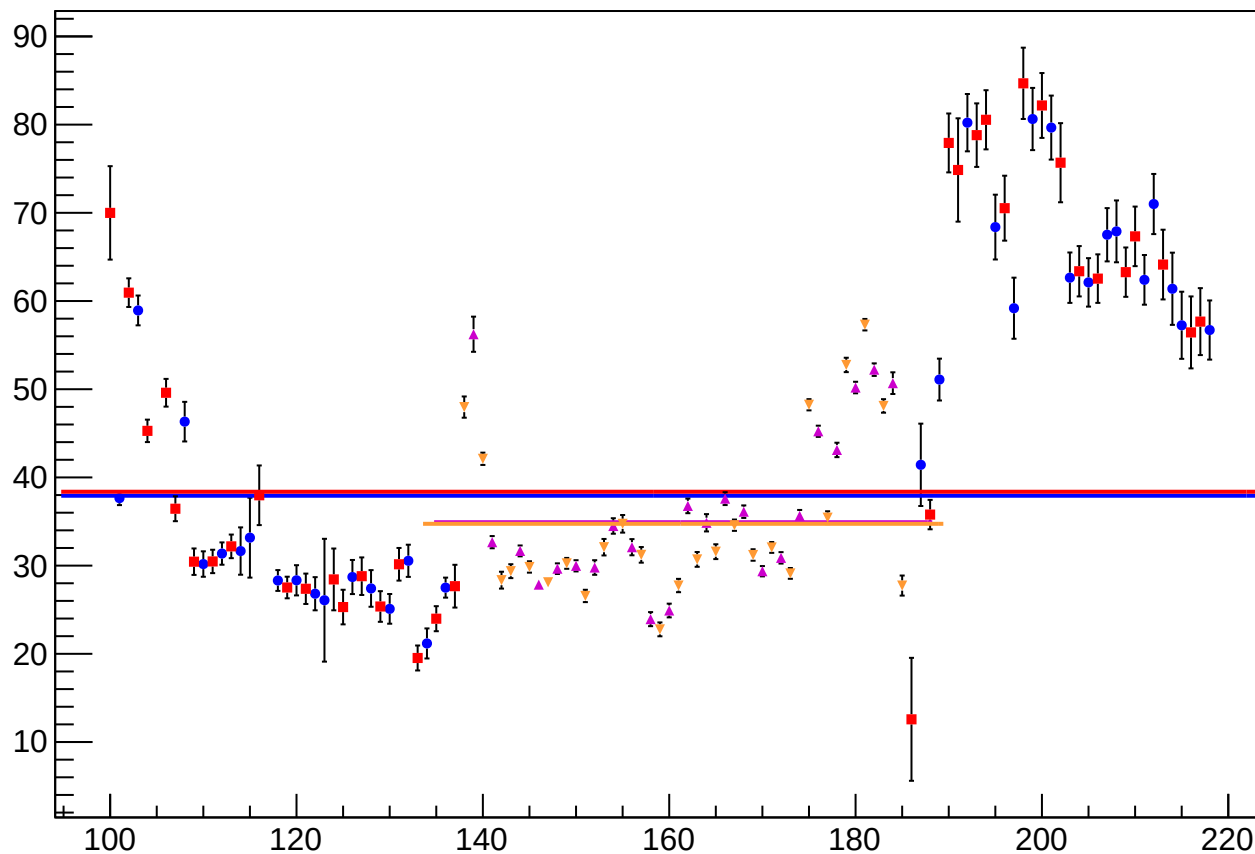
Right: -28.509 ± 0.382 χ^2/NDF : 1271.6/32

In: -39.366 ± 0.179 χ^2/NDF : 7754.9/38

Out: -39.449 ± 0.176 χ^2/NDF : 10507.3/41

All: -39.408 ± 0.126 χ^2/NDF : 18262.4/80

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 37.924 ± 0.341 $\chi^2/\text{NDF}: 1837.0/32$

Left Out: 34.741 ± 0.147 $\chi^2/\text{NDF}: 3693.2/24$

Right Out: 38.378 ± 0.342 $\chi^2/\text{NDF}: 2255.6/35$

Left In: 34.922 ± 0.152 $\chi^2/\text{NDF}: 2672.9/22$

Left: 34.829 ± 0.106 $\chi^2/\text{NDF}: 6366.8/47$

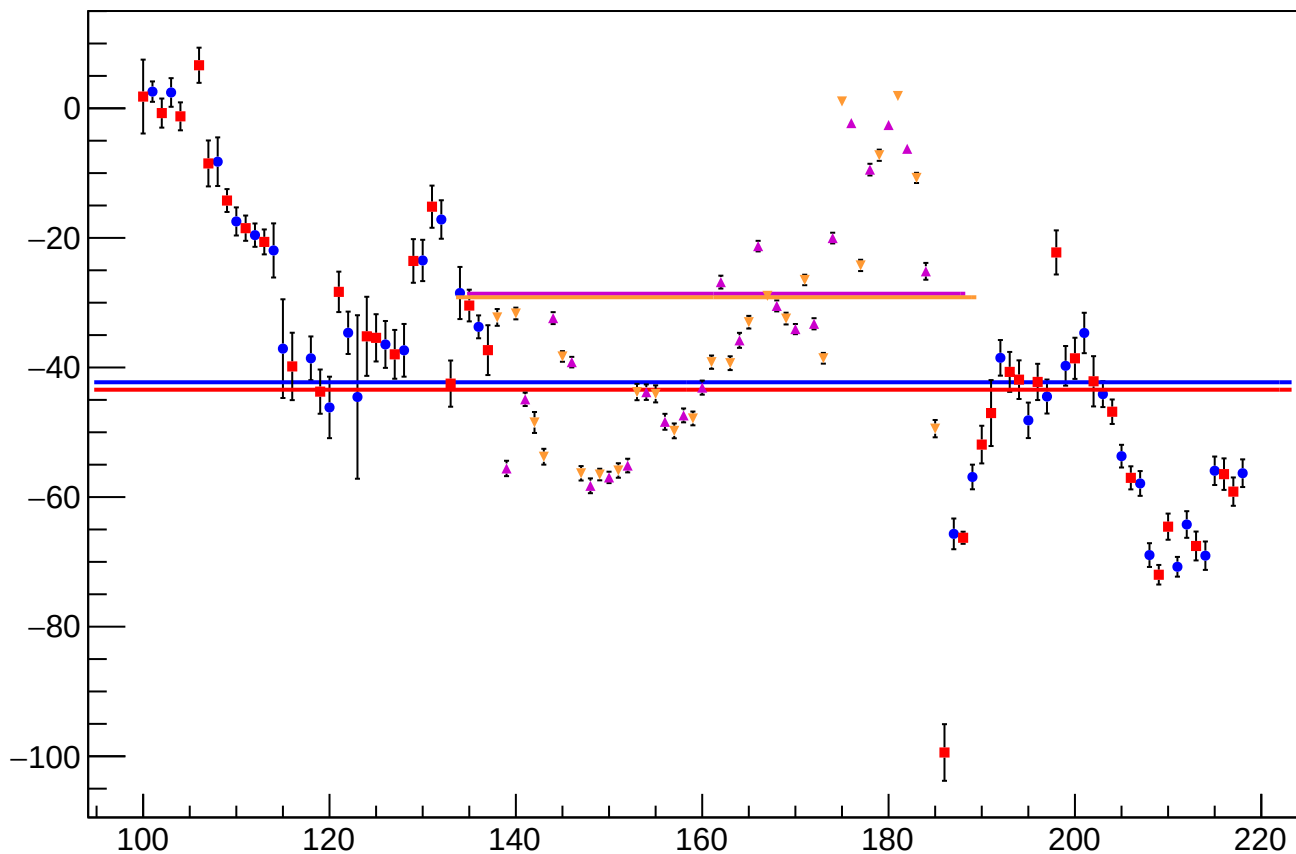
Right: 38.151 ± 0.242 $\chi^2/\text{NDF}: 4093.5/68$

In: 35.417 ± 0.139 $\chi^2/\text{NDF}: 4574.5/55$

Out: 35.310 ± 0.135 $\chi^2/\text{NDF}: 6044.0/60$

All: 35.362 ± 0.097 $\chi^2/\text{NDF}: 10618.8/116$

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -42.279 ± 0.417 χ^2/NDF : 2957.1/32

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -43.430 ± 0.401 χ^2/NDF : 3535.0/35

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

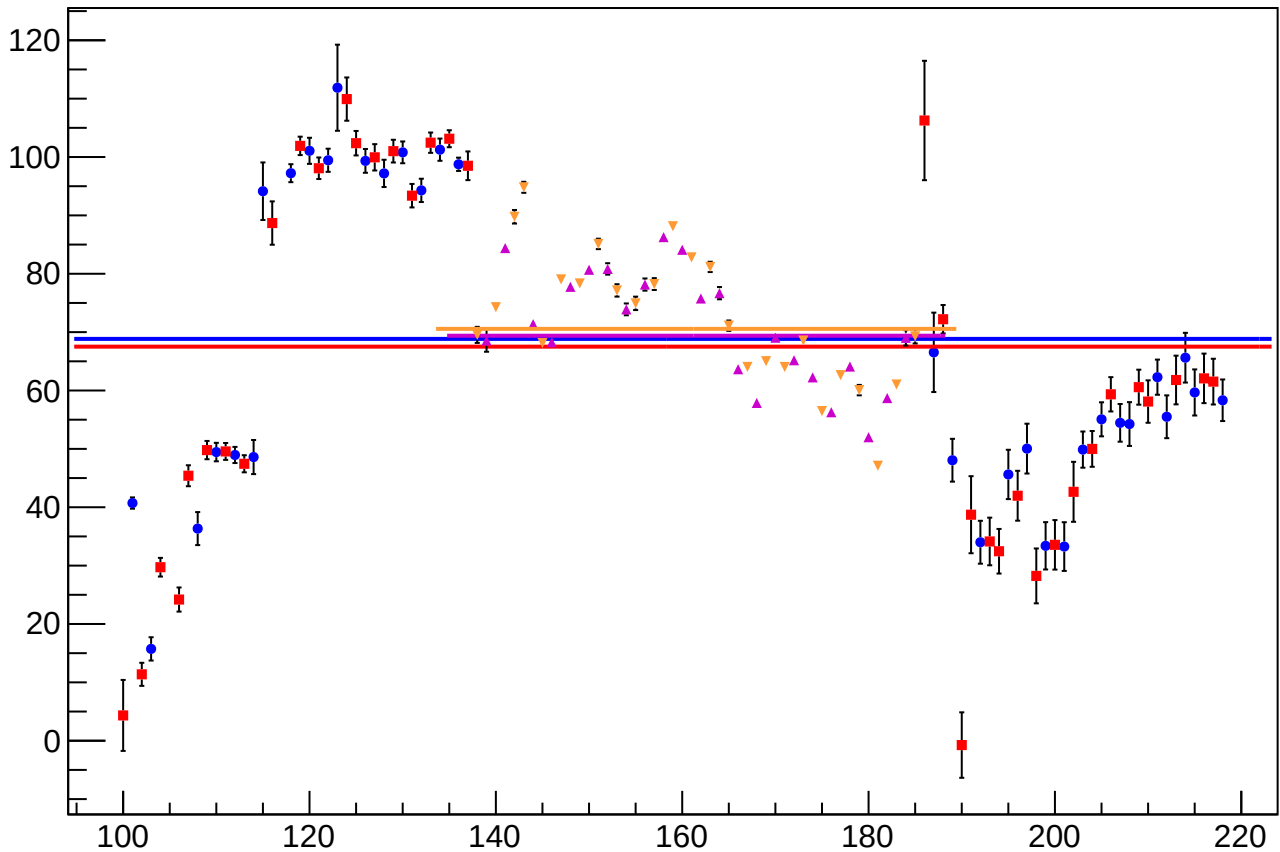
Right: -42.877 ± 0.289 χ^2/NDF : 6496.1/68

In: -30.965 ± 0.173 χ^2/NDF : 12888.6/55

Out: -31.712 ± 0.169 χ^2/NDF : 14700.7/60

All: -31.345 ± 0.121 χ^2/NDF : 27598.9/116

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 68.843 $\pm$ 0.389 χ^2 /NDF: 5194.2/32

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF: 4589.1/24

Right Out: 67.516 $\pm$ 0.394 χ^2 /NDF: 6139.3/35

Left In: 69.387 $\pm$ 0.170 χ^2 /NDF: 3321.8/22

Left: 69.989 $\pm$ 0.119 χ^2 /NDF: 7935.4/47

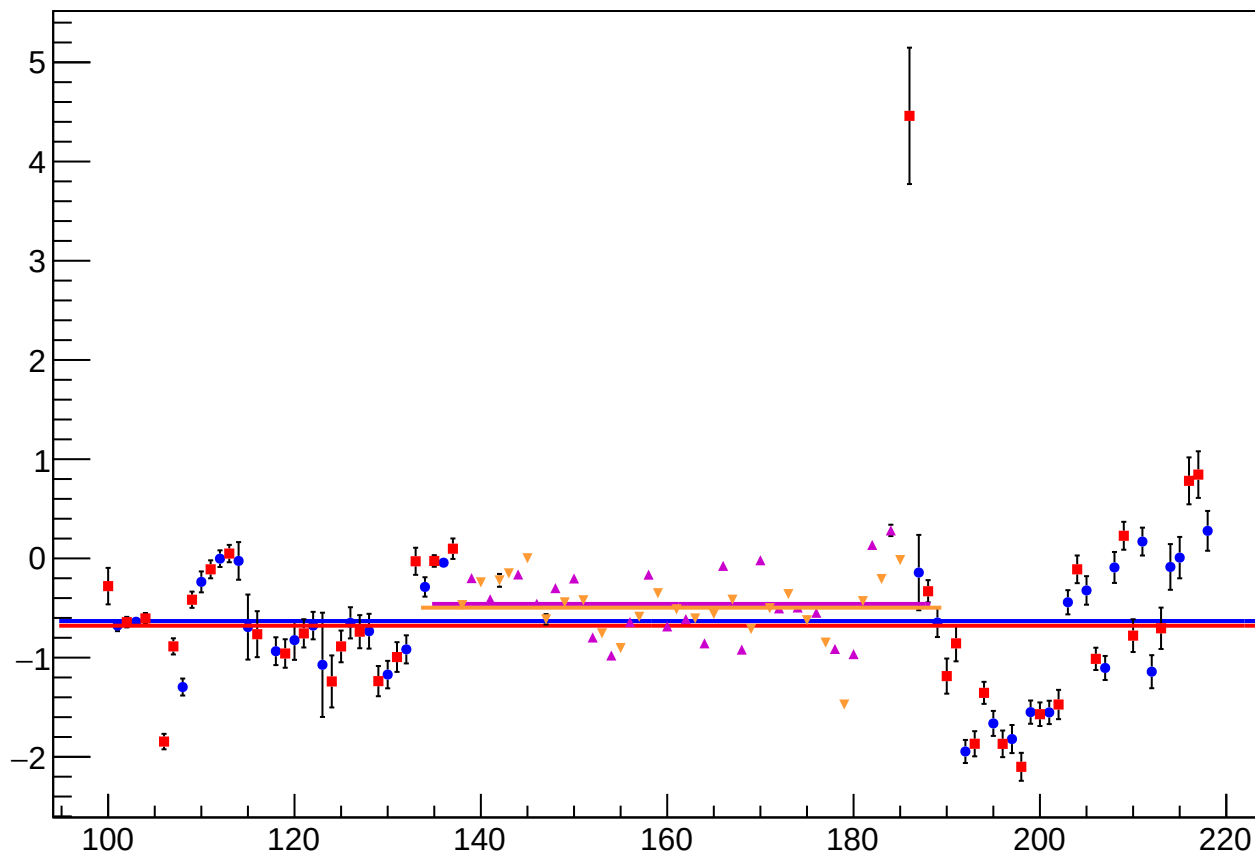
Right: 68.187 $\pm$ 0.277 χ^2 /NDF: 11339.2/68

In: 69.300 $\pm$ 0.156 χ^2 /NDF: 8517.7/55

Out: 70.101 $\pm$ 0.153 χ^2 /NDF: 10779.3/60

All: 69.708 $\pm$ 0.109 χ^2 /NDF: 19310.4/116

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected

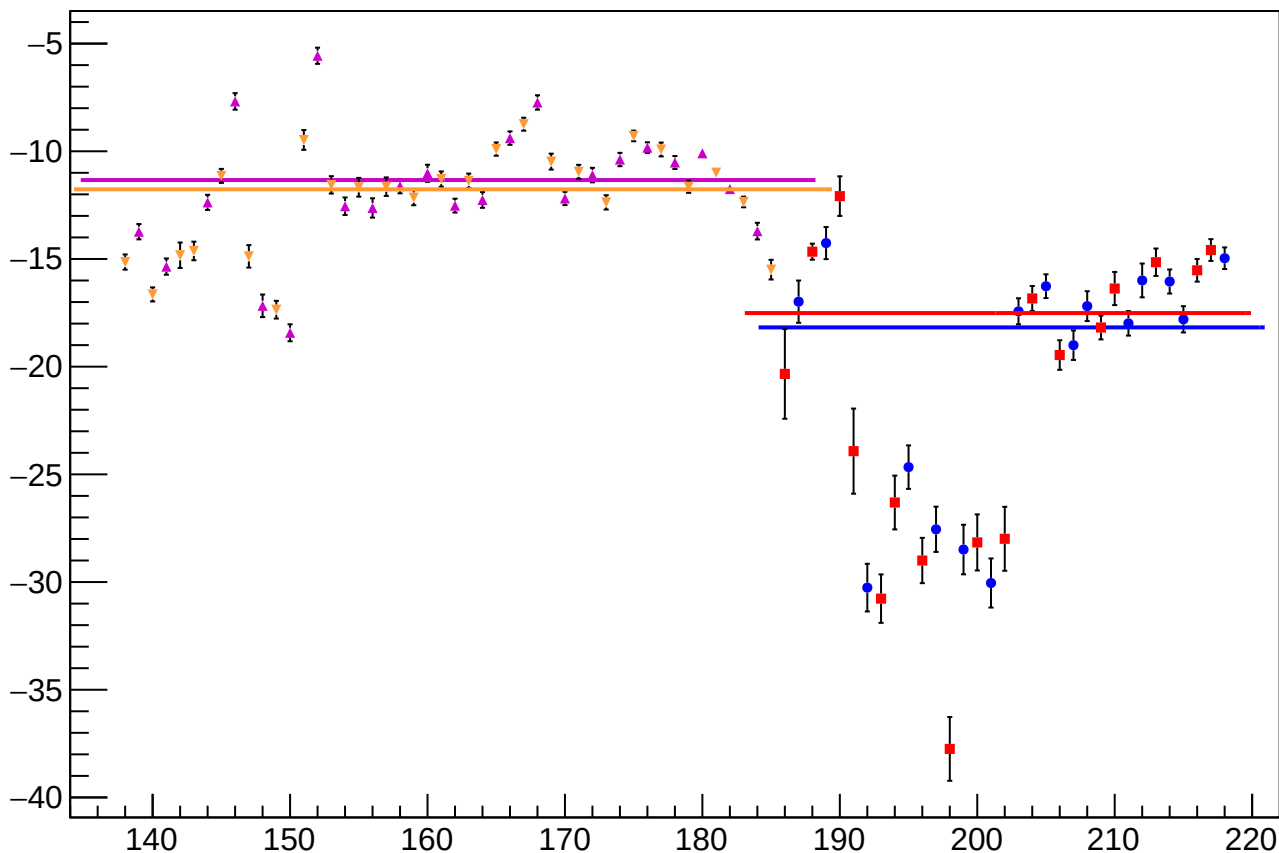


Right In: -0.631 ± 0.019 χ^2/NDF : 838.7/32
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.678 ± 0.018 χ^2/NDF : 1203.0/35
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.655 ± 0.013 χ^2/NDF : 2044.9/68
 In: -0.483 ± 0.007 χ^2/NDF : 2867.5/55
 Out: -0.523 ± 0.007 χ^2/NDF : 2735.5/60

All: -0.504 ± 0.005 χ^2/NDF : 5618.8/116

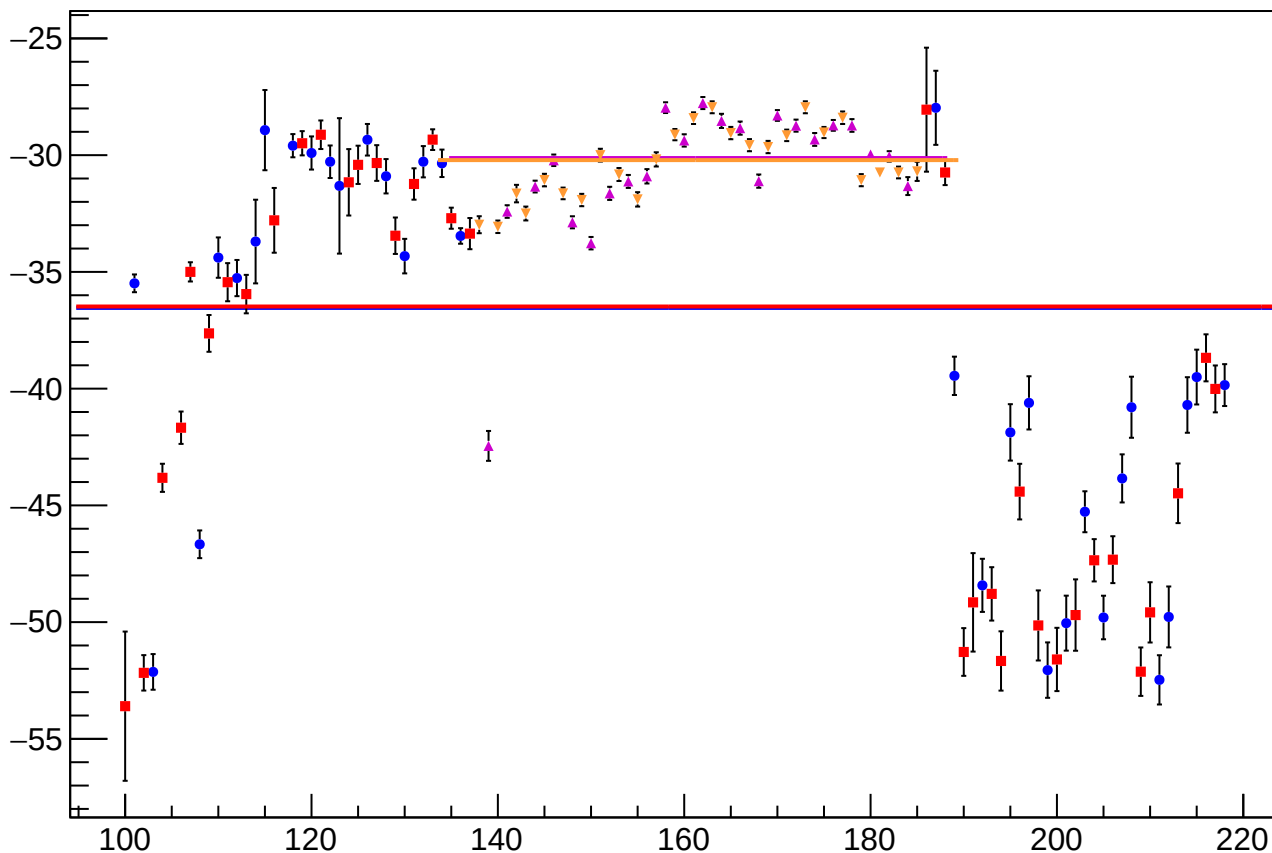
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -18.177 ± 0.177 $\chi^2/\text{NDF}: 538.7/15$
 Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$
 Right Out: -17.511 ± 0.175 $\chi^2/\text{NDF}: 791.7/16$
 Left In: -11.336 ± 0.068 $\chi^2/\text{NDF}: 1269.3/22$

Left: -11.556 ± 0.048 $\chi^2/\text{NDF}: 2310.6/47$
 Right: -17.840 ± 0.124 $\chi^2/\text{NDF}: 1337.5/32$
 In: -12.215 ± 0.064 $\chi^2/\text{NDF}: 3107.5/38$
 Out: -12.497 ± 0.062 $\chi^2/\text{NDF}: 2756.5/41$
 All: -12.359 ± 0.044 $\chi^2/\text{NDF}: 5874.1/80$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -36.542 ± 0.132 $\chi^2/\text{NDF}: 2788.9/32$

Left Out: -30.212 ± 0.054 $\chi^2/\text{NDF}: 734.0/24$

Right Out: -36.482 ± 0.131 $\chi^2/\text{NDF}: 3174.4/35$

Left In: -30.124 ± 0.056 $\chi^2/\text{NDF}: 1226.2/22$

Left: -30.169 ± 0.039 $\chi^2/\text{NDF}: 1961.5/47$

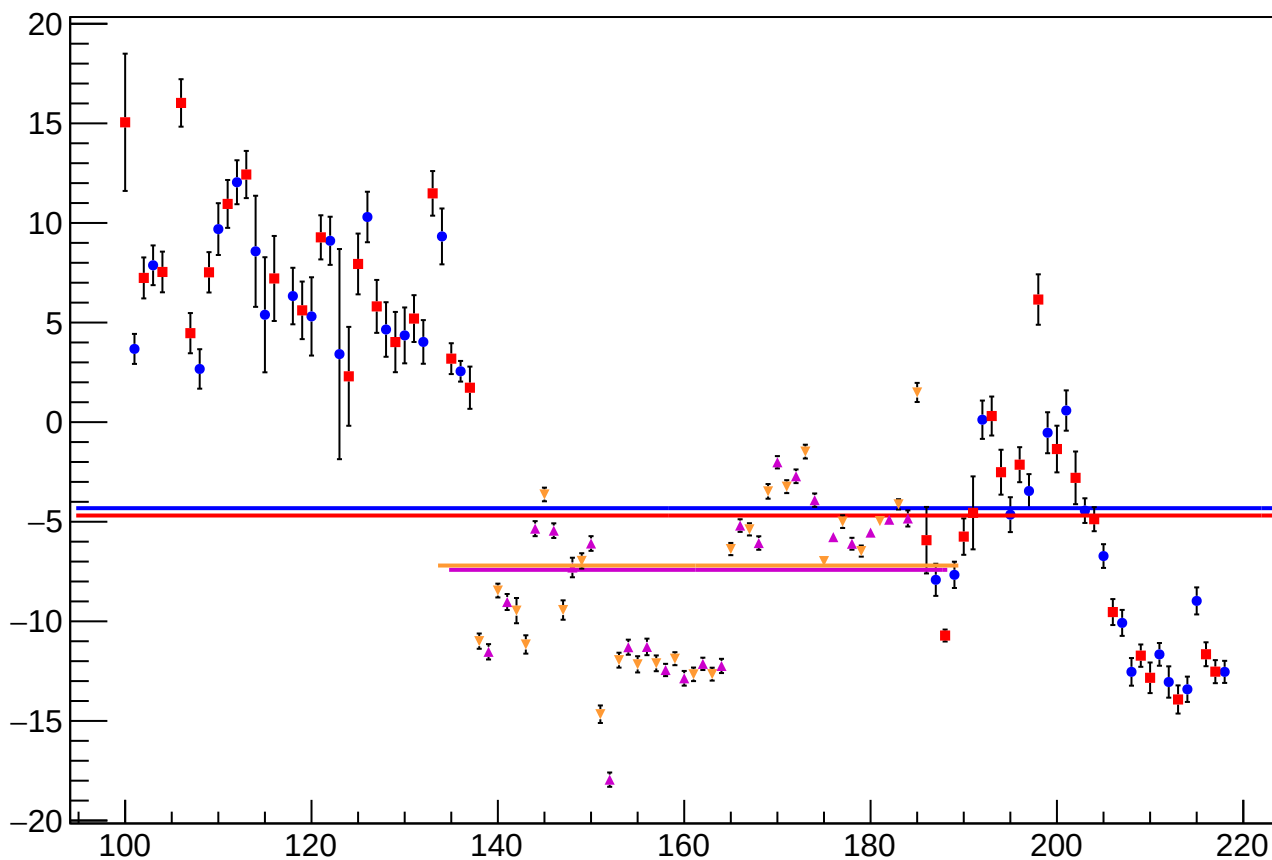
Right: -36.512 ± 0.093 $\chi^2/\text{NDF}: 5963.4/68$

In: -31.082 ± 0.051 $\chi^2/\text{NDF}: 6011.7/55$

Out: -31.121 ± 0.050 $\chi^2/\text{NDF}: 5873.1/60$

All: -31.102 ± 0.036 $\chi^2/\text{NDF}: 11885.1/116$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.319 ± 0.148 χ^2/NDF : 2528.4/32

Left Out: -7.199 ± 0.067 χ^2/NDF : 3037.3/24

Right Out: -4.688 ± 0.143 χ^2/NDF : 3391.0/35

Left In: -7.415 ± 0.068 χ^2/NDF : 3123.3/22

Left: -7.305 ± 0.048 χ^2/NDF : 6165.7/47

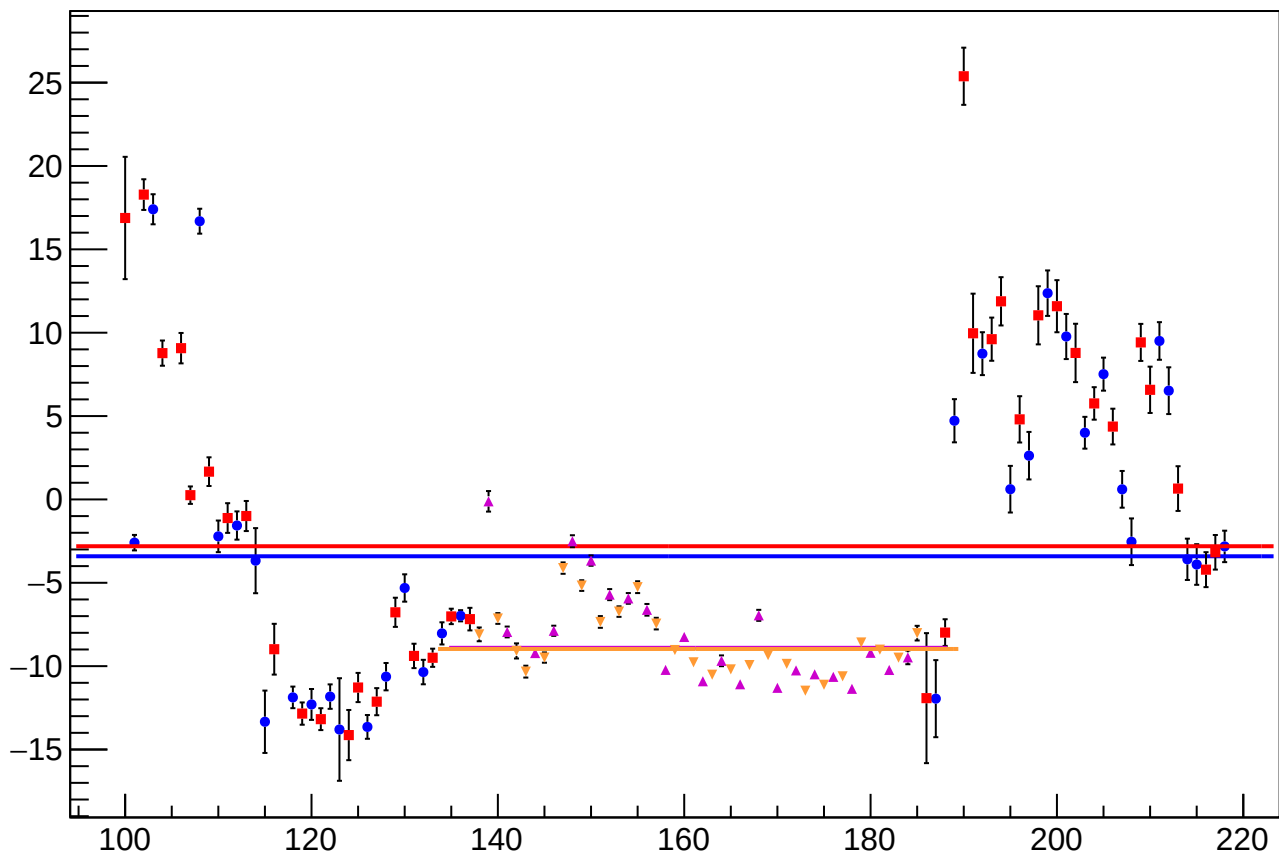
Right: -4.510 ± 0.103 χ^2/NDF : 5922.6/68

In: -6.877 ± 0.062 χ^2/NDF : 6013.1/55

Out: -6.748 ± 0.061 χ^2/NDF : 6681.6/60

All: -6.811 ± 0.043 χ^2/NDF : 12696.9/116

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.410 ± 0.149 χ^2/NDF : 3013.9/32

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -2.808 ± 0.151 χ^2/NDF : 3239.1/35

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

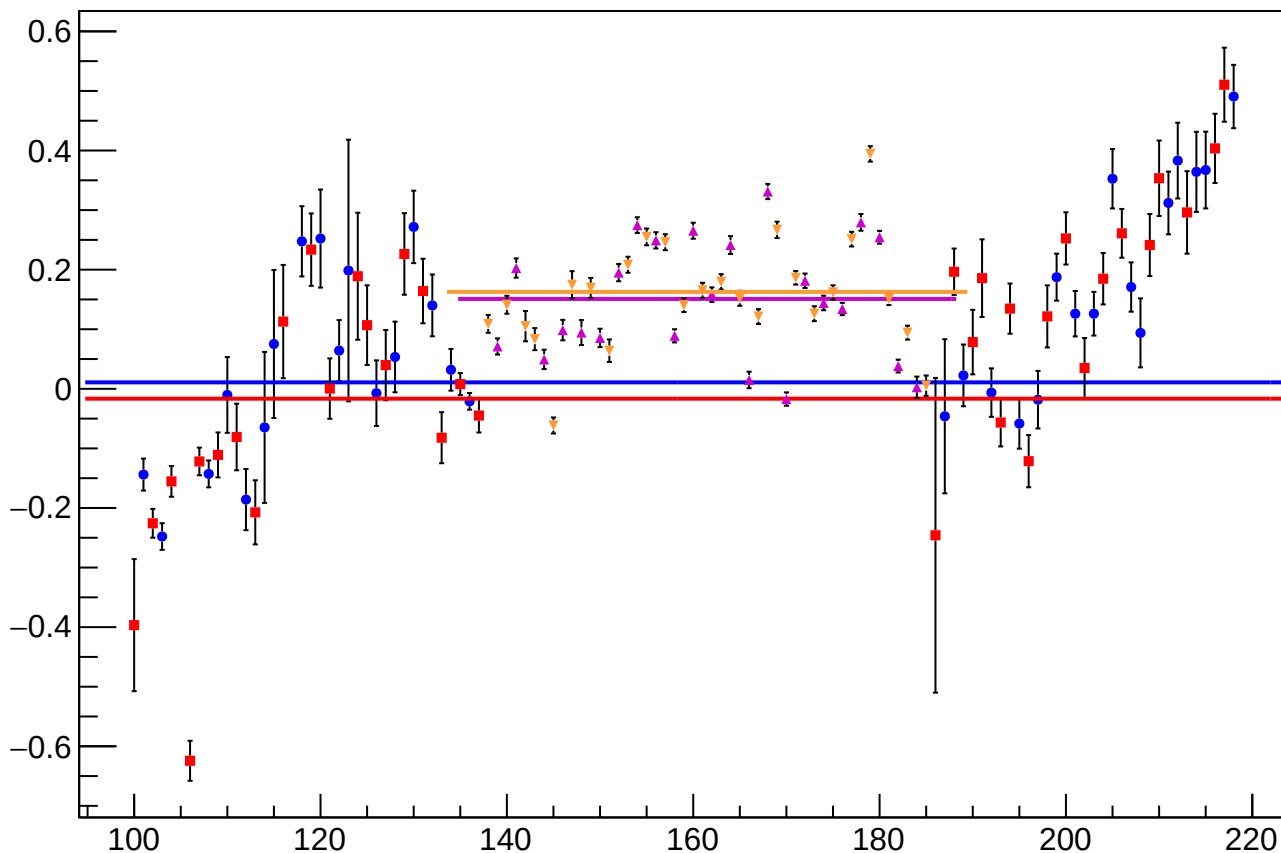
Right: -3.112 ± 0.106 χ^2/NDF : 6261.1/68

In: -8.101 ± 0.057 χ^2/NDF : 5702.8/55

Out: -8.127 ± 0.056 χ^2/NDF : 5553.6/60

All: -8.114 ± 0.040 χ^2/NDF : 11256.5/116

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.007 χ^2 /NDF: 599.6/32

Left Out: 0.163 $\pm$ 0.003 χ^2 /NDF:1018.1/24

Right Out: -0.017 $\pm$ 0.007 χ^2 /NDF: 918.8/35

Left In: 0.151 $\pm$ 0.003 χ^2 /NDF:1286.5/22

Left: 0.157 $\pm$ 0.002 χ^2 /NDF: 2313.9/47

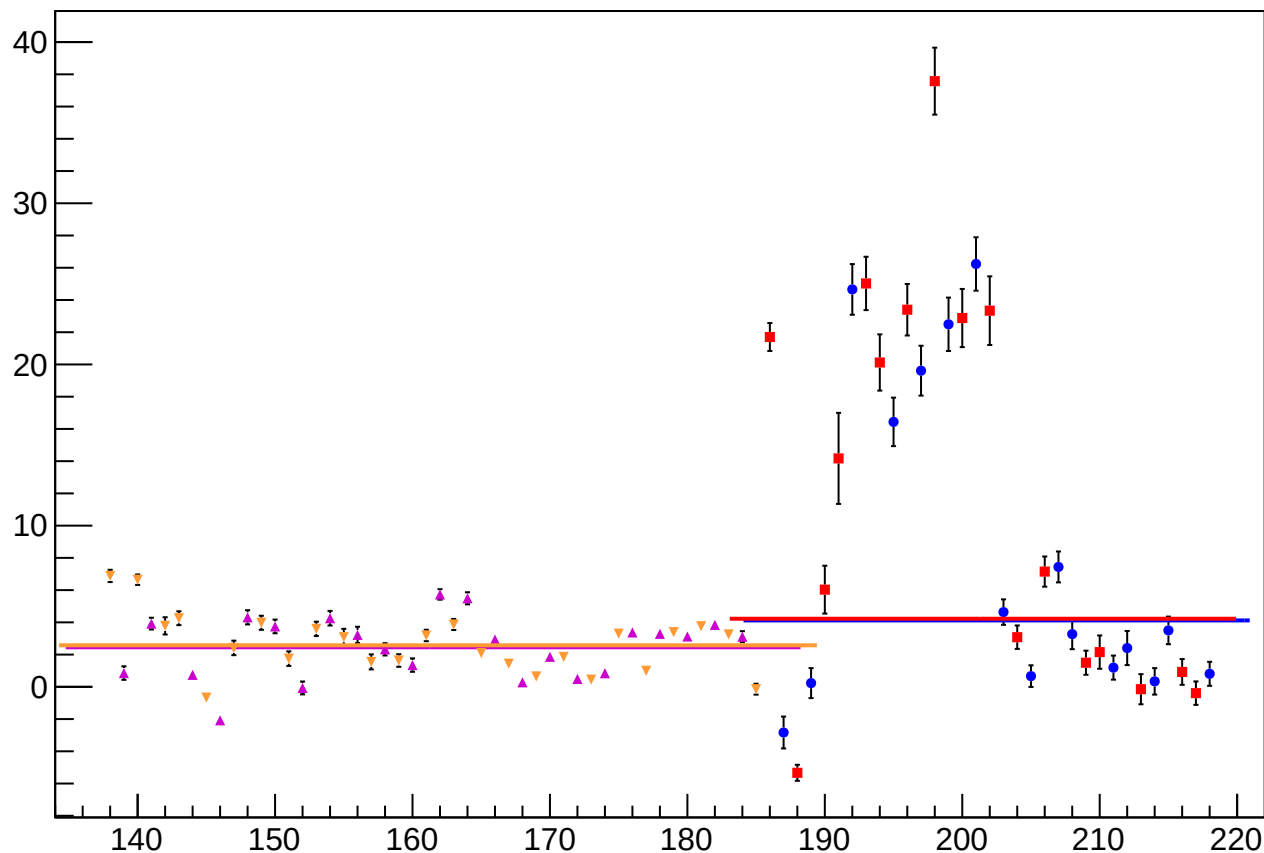
Right: -0.003 $\pm$ 0.005 χ^2 /NDF: 1526.2/68

In: 0.132 $\pm$ 0.003 χ^2 /NDF:2240.4/55

Out: 0.139 $\pm$ 0.003 χ^2 /NDF:2515.1/60

All: 0.135 $\pm$ 0.002 χ^2 /NDF: 4759.4/116

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.120+/-0.239 χ^2/NDF : 805.5/15

Left Out: 2.577+/-0.058 χ^2/NDF :867.5/24

Right Out: 4.224+/-0.235 χ^2/NDF : 1730.2/16

Left In: 2.452+/-0.059 χ^2/NDF :871.3/22

Left: 2.516+/-0.042 χ^2/NDF : 1741.0/47

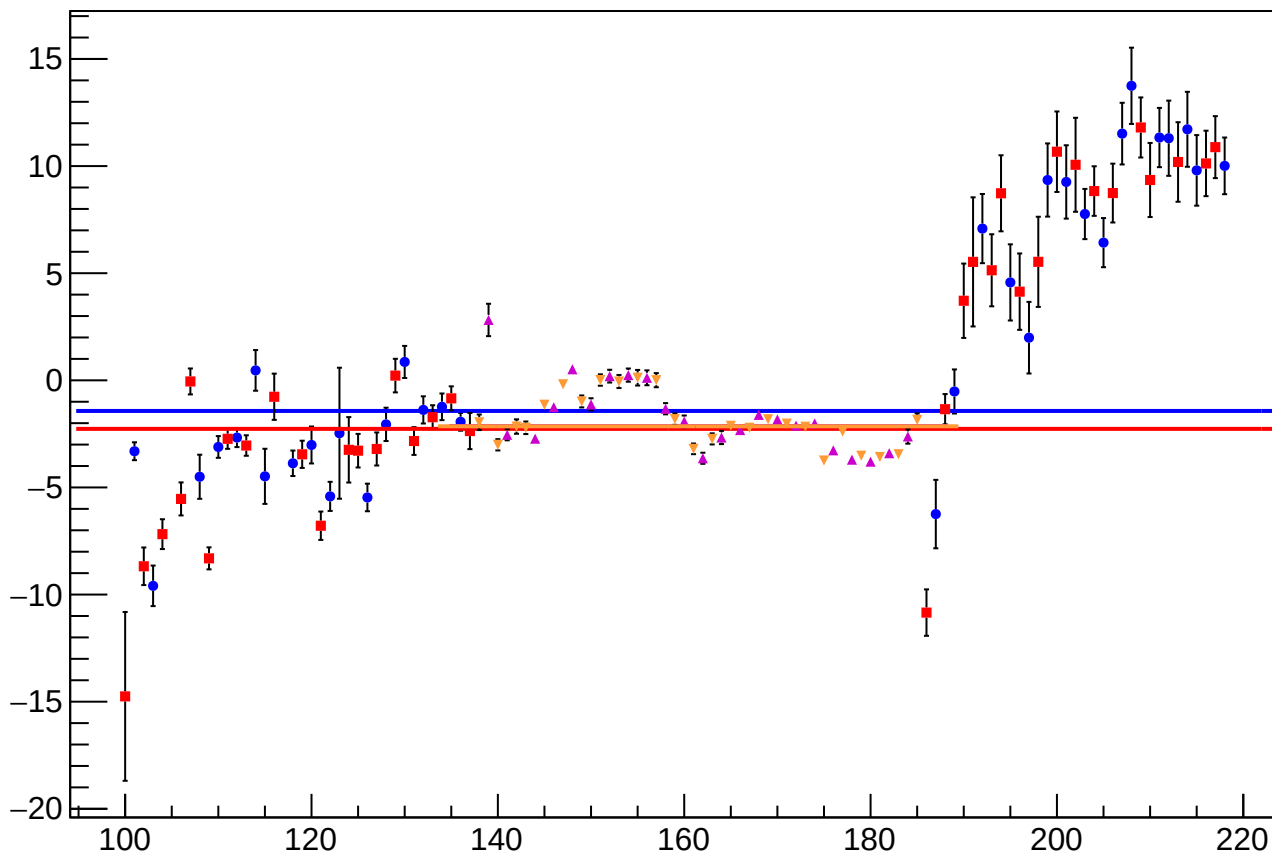
Right: 4.173+/-0.167 χ^2/NDF : 2535.8/32

In: 2.549+/-0.058 χ^2/NDF :1722.7/38

Out: 2.672+/-0.057 χ^2/NDF :2644.1/41

All: 2.612+/-0.040 χ^2/NDF : 4369.2/80

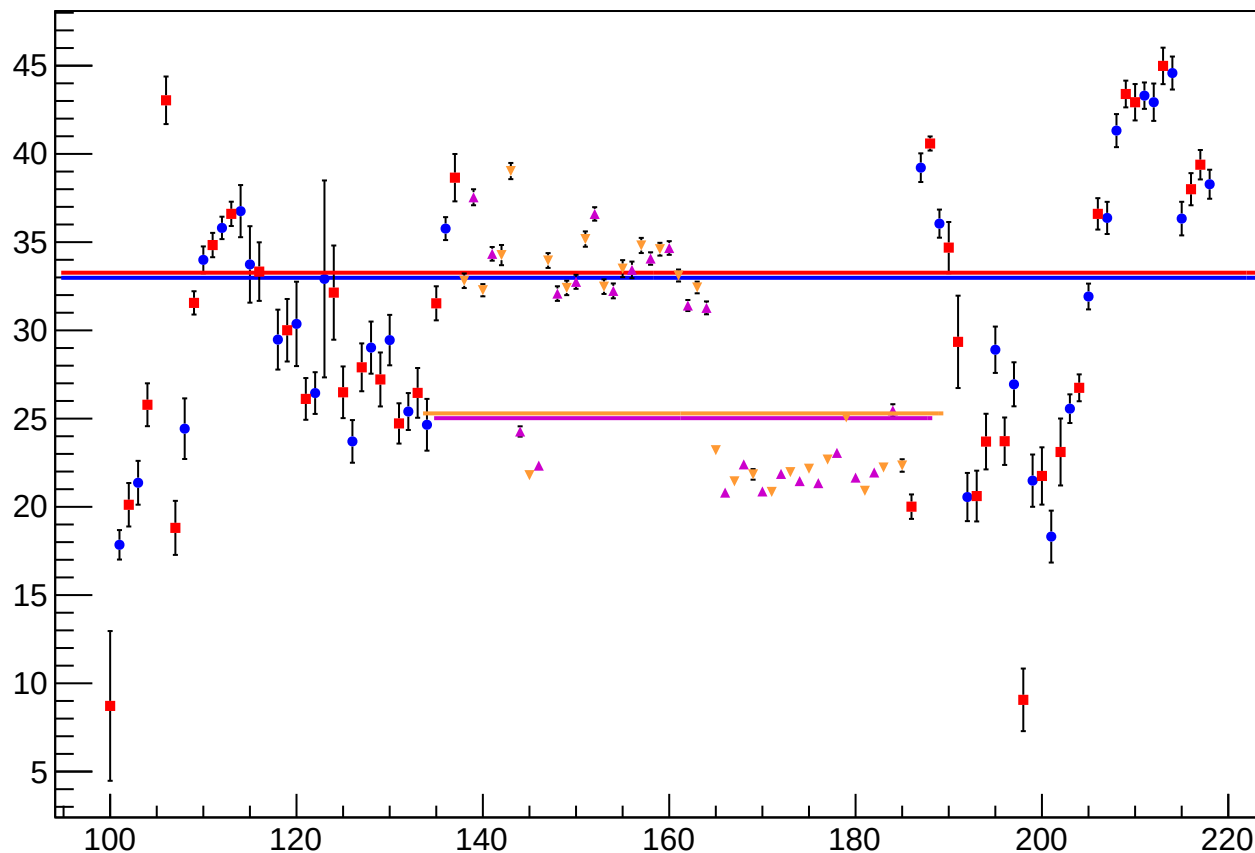
reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.429 ± 0.143 χ^2/NDF : 947.2/32
 Left Out: -2.146 ± 0.048 χ^2/NDF : 573.4/24
 Right Out: -2.266 ± 0.141 χ^2/NDF : 1102.4/35
 Left In: -2.136 ± 0.048 χ^2/NDF : 691.2/22

Left: -2.141 ± 0.034 χ^2/NDF : 1264.6/47
 Right: -1.852 ± 0.100 χ^2/NDF : 2066.9/68
 In: -2.063 ± 0.046 χ^2/NDF : 1660.4/55
 Out: -2.158 ± 0.045 χ^2/NDF : 1676.4/60
 All: -2.111 ± 0.032 χ^2/NDF : 3339.0/116

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.979 ± 0.177 $\chi^2/\text{NDF}: 1694.5/32$

Left Out: 25.296 ± 0.059 $\chi^2/\text{NDF}: 8272.3/24$

Right Out: 33.268 ± 0.168 $\chi^2/\text{NDF}: 2250.7/35$

Left In: 25.025 ± 0.060 $\chi^2/\text{NDF}: 7610.5/22$

Left: 25.162 ± 0.042 $\chi^2/\text{NDF}: 15893.3/47$

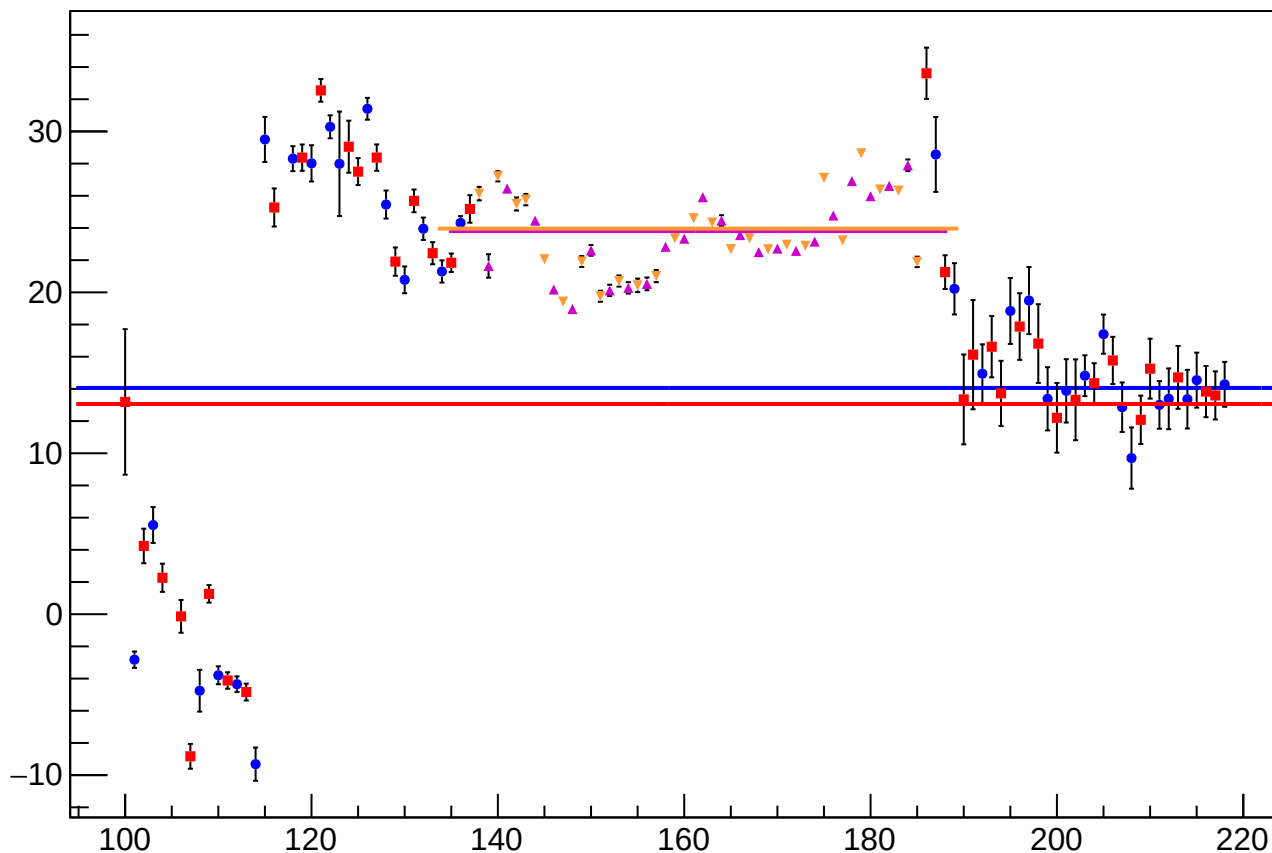
Right: 33.131 ± 0.122 $\chi^2/\text{NDF}: 3946.5/68$

In: 25.834 ± 0.056 $\chi^2/\text{NDF}: 11115.1/55$

Out: 26.165 ± 0.056 $\chi^2/\text{NDF}: 12525.2/60$

All: 26.002 ± 0.040 $\chi^2/\text{NDF}: 23657.9/116$

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.060 $\pm$ 0.160 χ^2 /NDF: 7357.6/32

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.063 $\pm$ 0.161 χ^2 /NDF: 7215.2/35

Left In: 23.805 $\pm$ 0.054 χ^2 /NDF:1761.3/22

Left: 23.885 $\pm$ 0.038 χ^2 /NDF: 3688.0/47

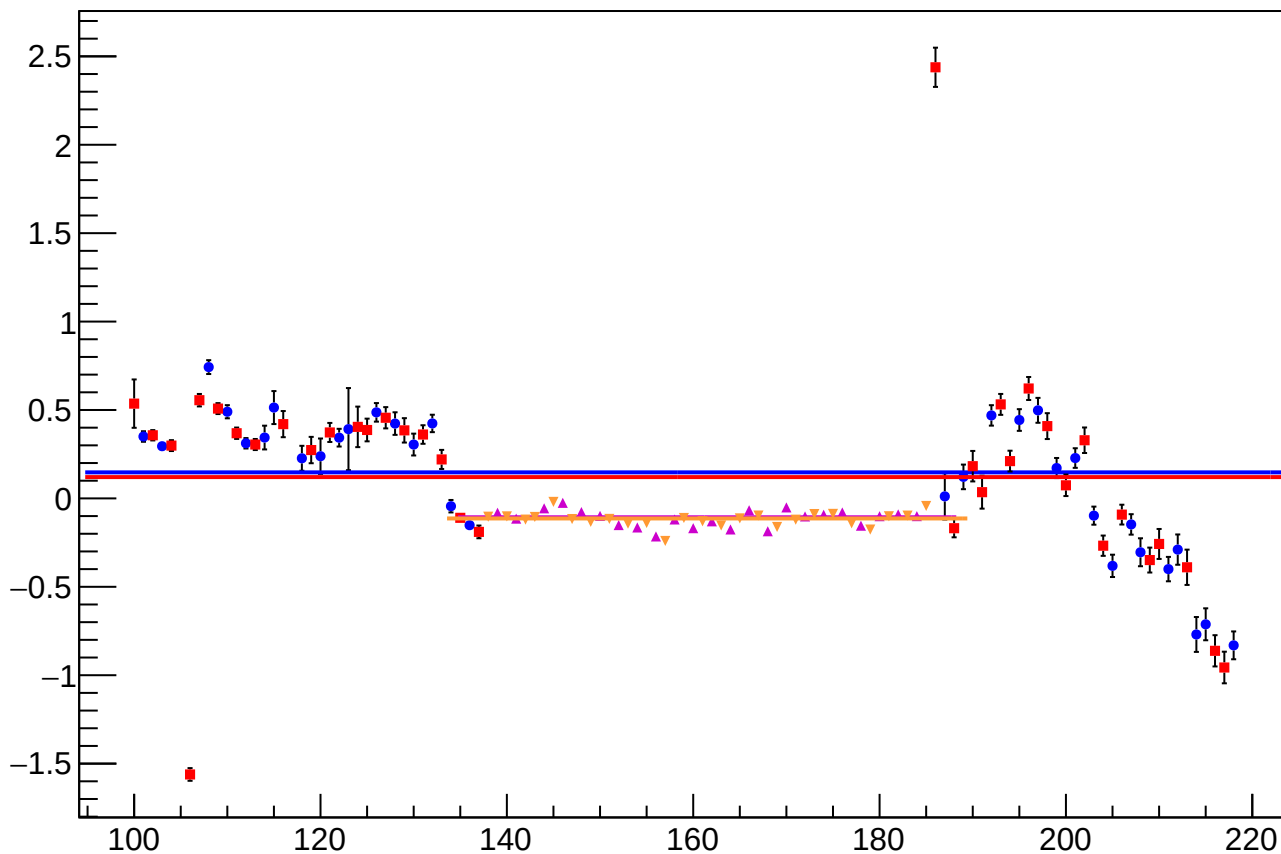
Right: 13.564 $\pm$ 0.113 χ^2 /NDF: 14592.2/68

In: 22.805 $\pm$ 0.051 χ^2 /NDF:12456.1/55

Out: 22.885 $\pm$ 0.050 χ^2 /NDF:13291.2/60

All: 22.846 $\pm$ 0.036 χ^2 /NDF: 25748.6/116

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.147 ± 0.008 χ^2/NDF : 1538.4/32

Left Out: -0.113 ± 0.002 χ^2/NDF : 291.0/24

Right Out: 0.120 ± 0.008 χ^2/NDF : 4040.6/35

Left In: -0.107 ± 0.002 χ^2/NDF : 321.8/22

Left: -0.110 ± 0.002 χ^2/NDF : 616.6/47

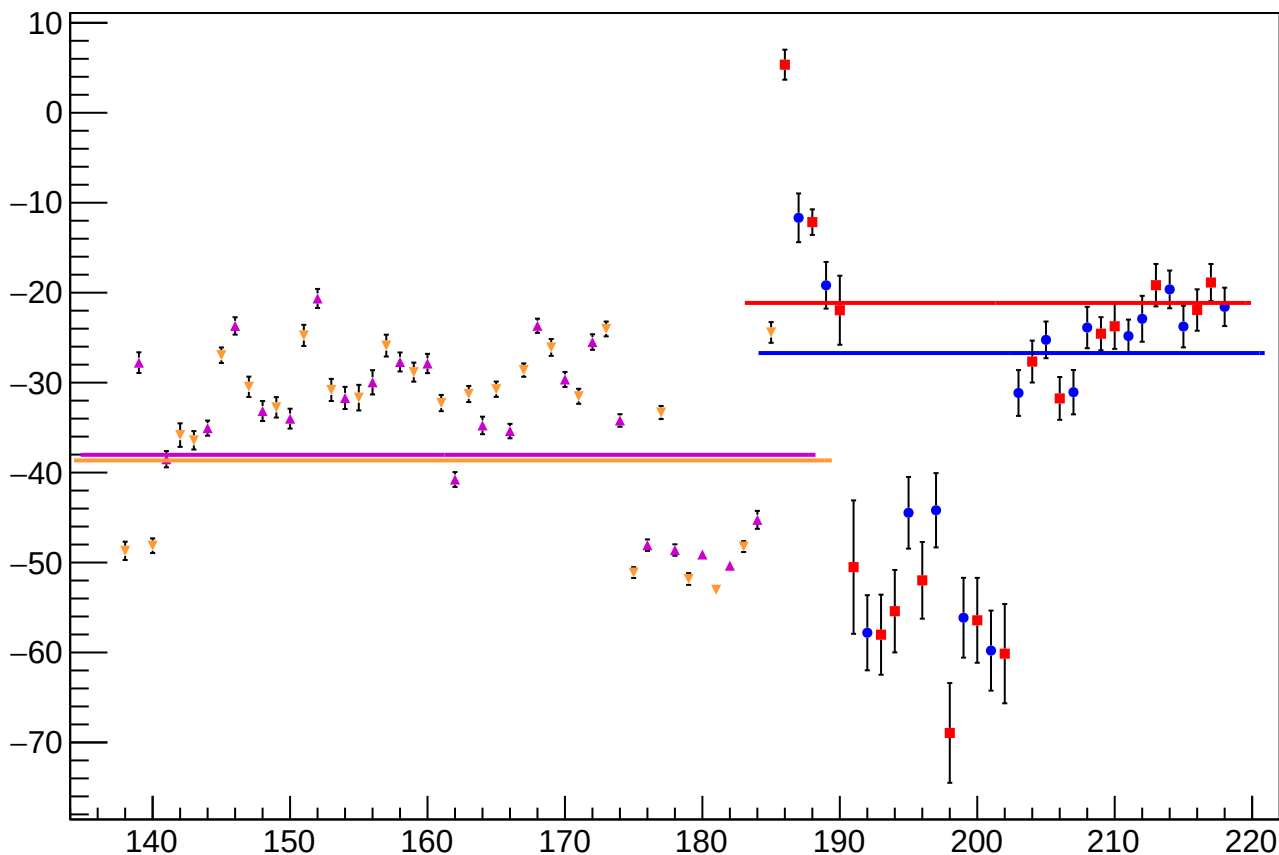
Right: 0.134 ± 0.006 χ^2/NDF : 5584.4/68

In: -0.086 ± 0.002 χ^2/NDF : 2738.3/55

Out: -0.094 ± 0.002 χ^2/NDF : 5097.8/60

All: -0.090 ± 0.002 χ^2/NDF : 7842.8/116

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected

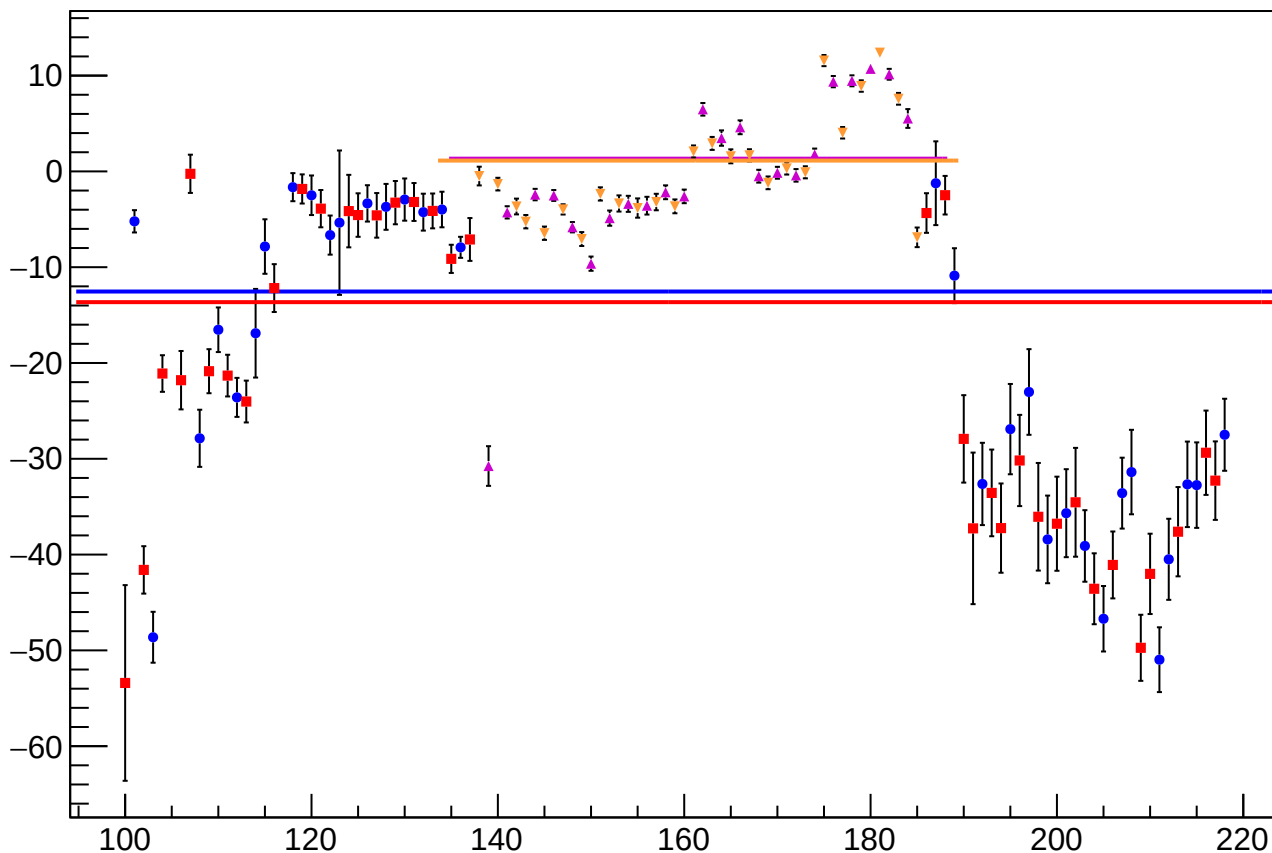


Right In: -26.711 ± 0.645 χ^2/NDF : 261.9/15
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -21.140 ± 0.618 χ^2/NDF : 698.8/16
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -23.803 ± 0.446 χ^2/NDF : 999.7/32
 In: -37.267 ± 0.167 χ^2/NDF : 3640.6/38
 Out: -37.429 ± 0.163 χ^2/NDF : 5523.8/41

All: -37.350 ± 0.117 χ^2/NDF : 9164.8/80

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.540 ± 0.422 χ^2/NDF : 1019.9/32

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -13.649 ± 0.431 χ^2/NDF : 993.3/35

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

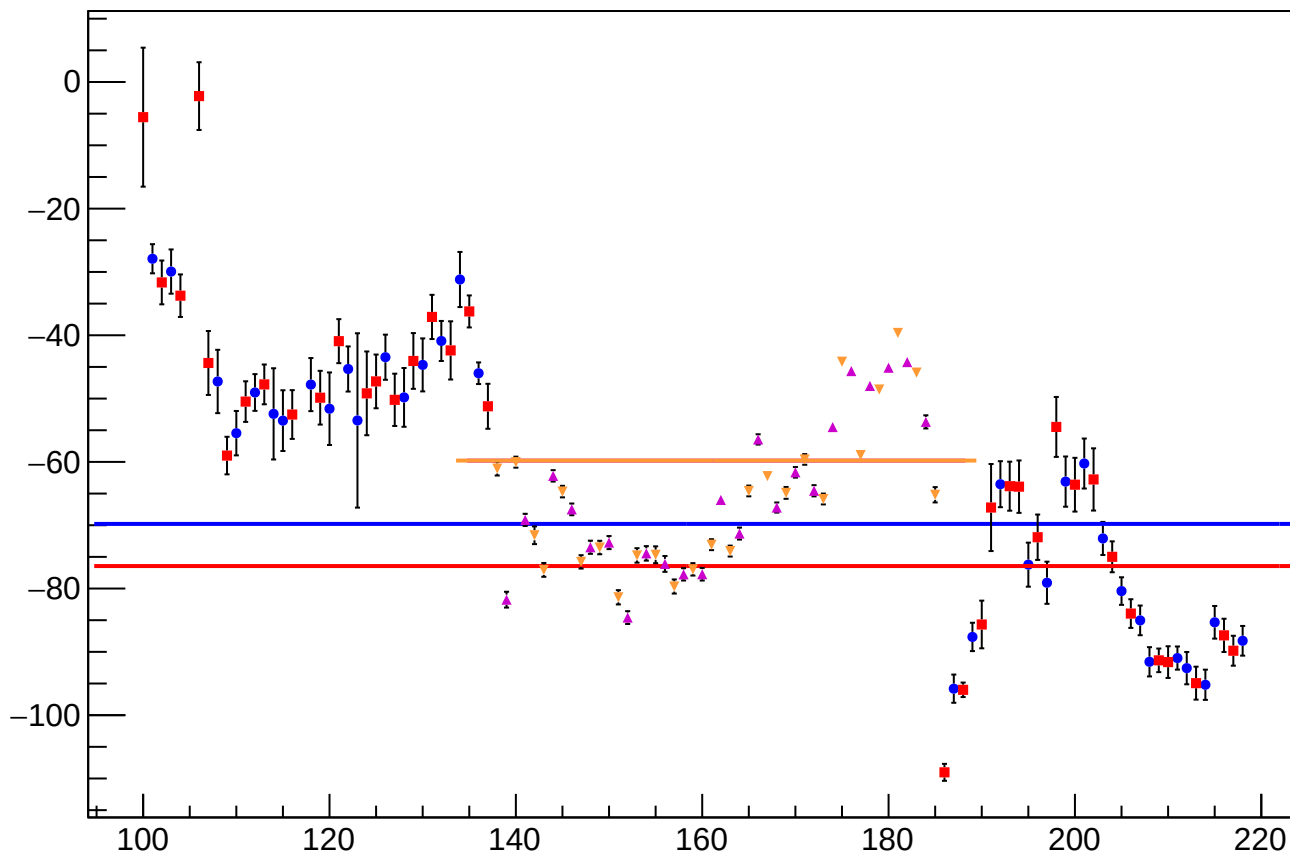
Right: -13.083 ± 0.302 χ^2/NDF : 2016.5/68

In: -0.041 ± 0.133 χ^2/NDF : 4040.0/55

Out: -0.207 ± 0.130 χ^2/NDF : 3861.0/60

All: -0.126 ± 0.093 χ^2/NDF : 7901.8/116

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -69.793 ± 0.507 χ^2/NDF : 1922.0/32

Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24

Right Out: -76.450 ± 0.479 χ^2/NDF : 2777.0/35

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

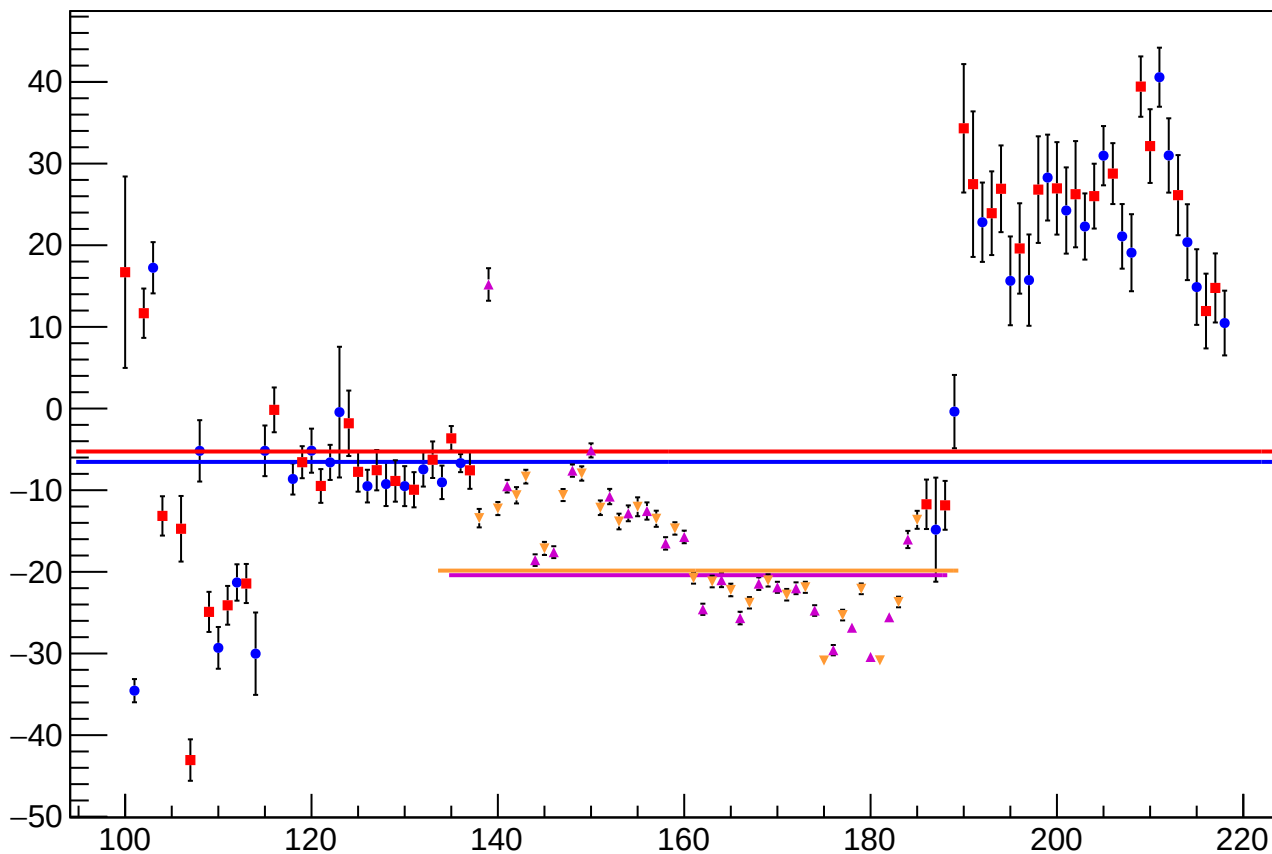
Right: -73.314 ± 0.348 χ^2/NDF : 4790.1/68

In: -60.847 ± 0.164 χ^2/NDF : 7487.0/55

Out: -61.658 ± 0.160 χ^2/NDF : 9690.7/60

All: -61.261 ± 0.115 χ^2/NDF : 17190.2/116

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.534 ± 0.475 χ^2/NDF : 1296.3/32

Left Out: -19.847 ± 0.153 χ^2/NDF : 1931.3/24

Right Out: -5.262 ± 0.495 χ^2/NDF : 1120.3/35

Left In: -20.410 ± 0.157 χ^2/NDF : 2302.0/22

Left: -20.122 ± 0.109 χ^2/NDF : 4239.8/47

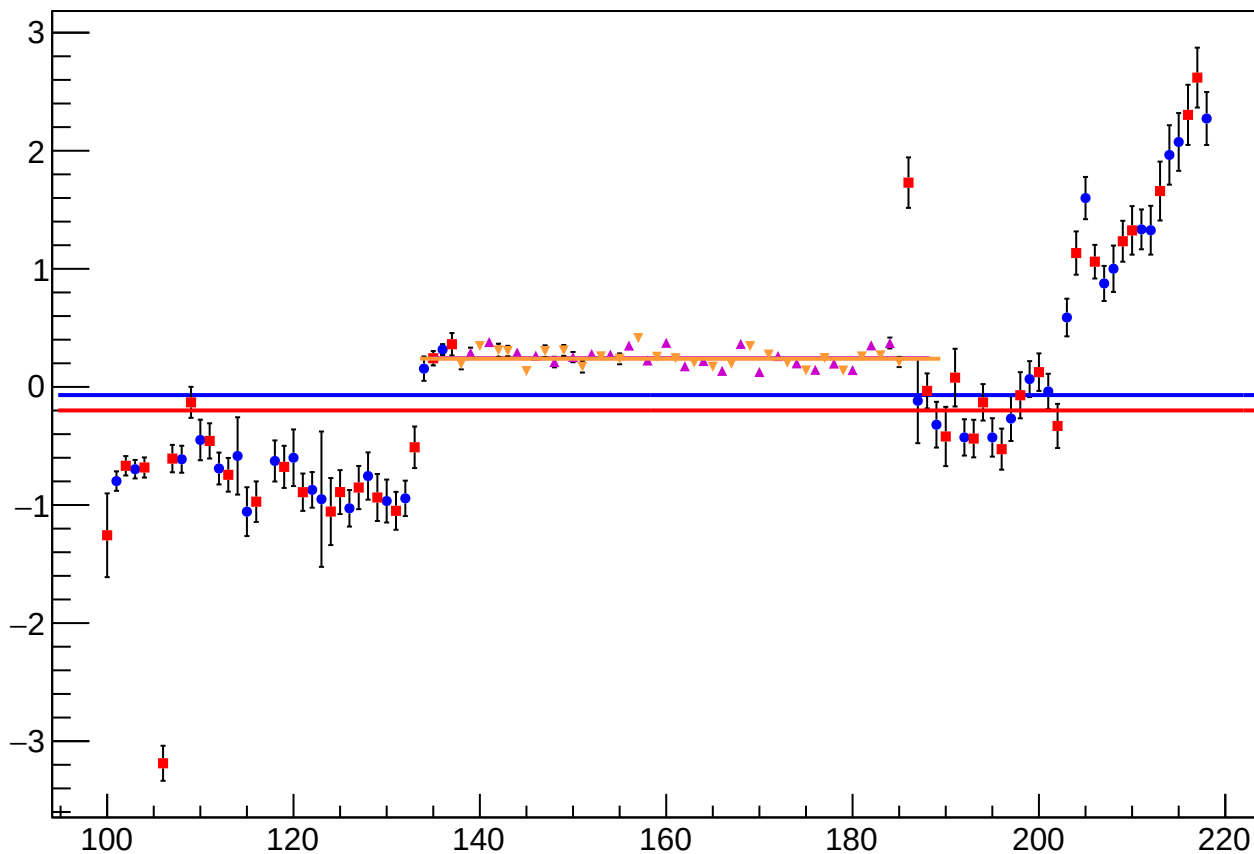
Right: -5.923 ± 0.343 χ^2/NDF : 2420.1/68

In: -19.051 ± 0.149 χ^2/NDF : 4367.0/55

Out: -18.577 ± 0.146 χ^2/NDF : 3845.5/60

All: -18.809 ± 0.104 χ^2/NDF : 8217.7/116

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.069 ± 0.024 χ^2/NDF : 999.8/32

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.199 ± 0.024 χ^2/NDF : 1350.5/35

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

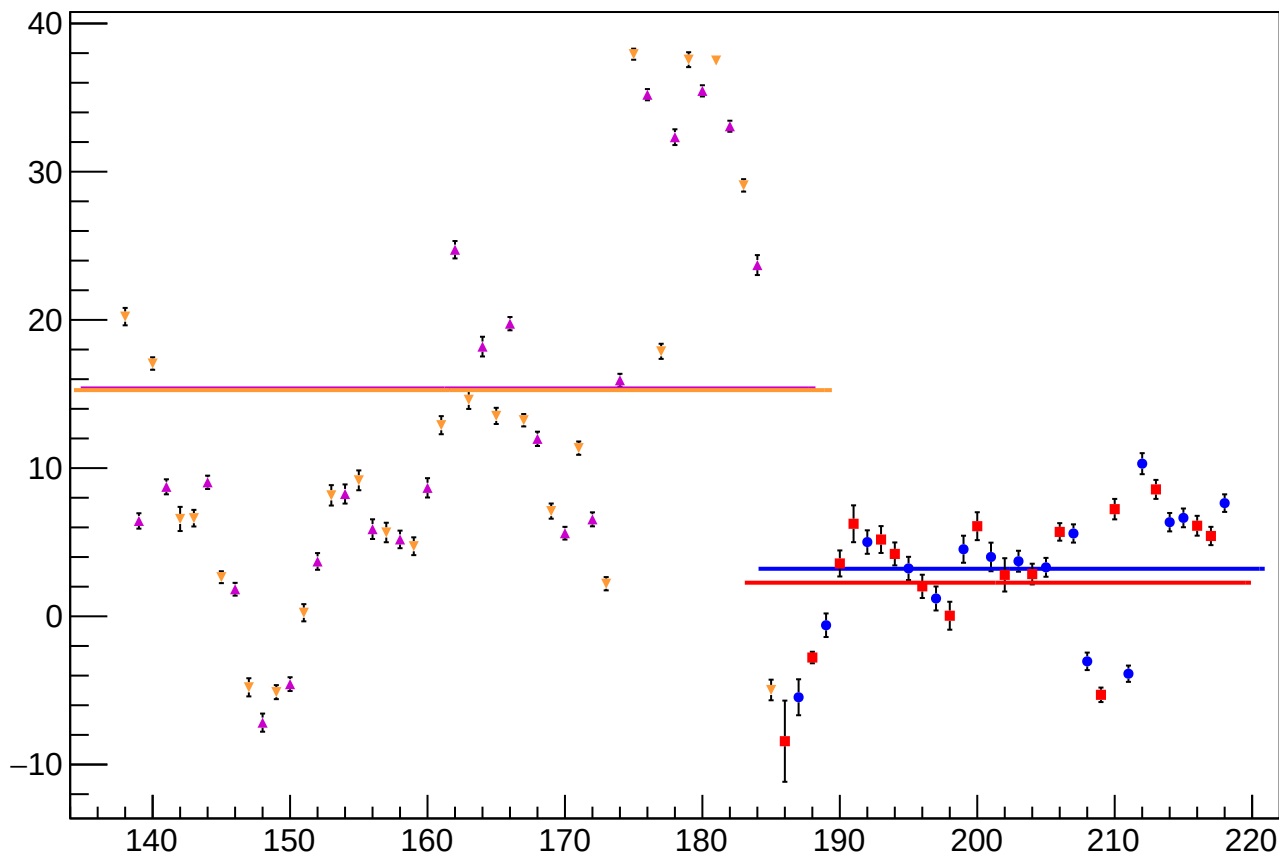
Right: -0.133 ± 0.017 χ^2/NDF : 2365.1/68

In: 0.217 ± 0.007 χ^2/NDF : 1298.6/55

Out: 0.205 ± 0.007 χ^2/NDF : 1746.4/60

All: 0.211 ± 0.005 χ^2/NDF : 3046.6/116

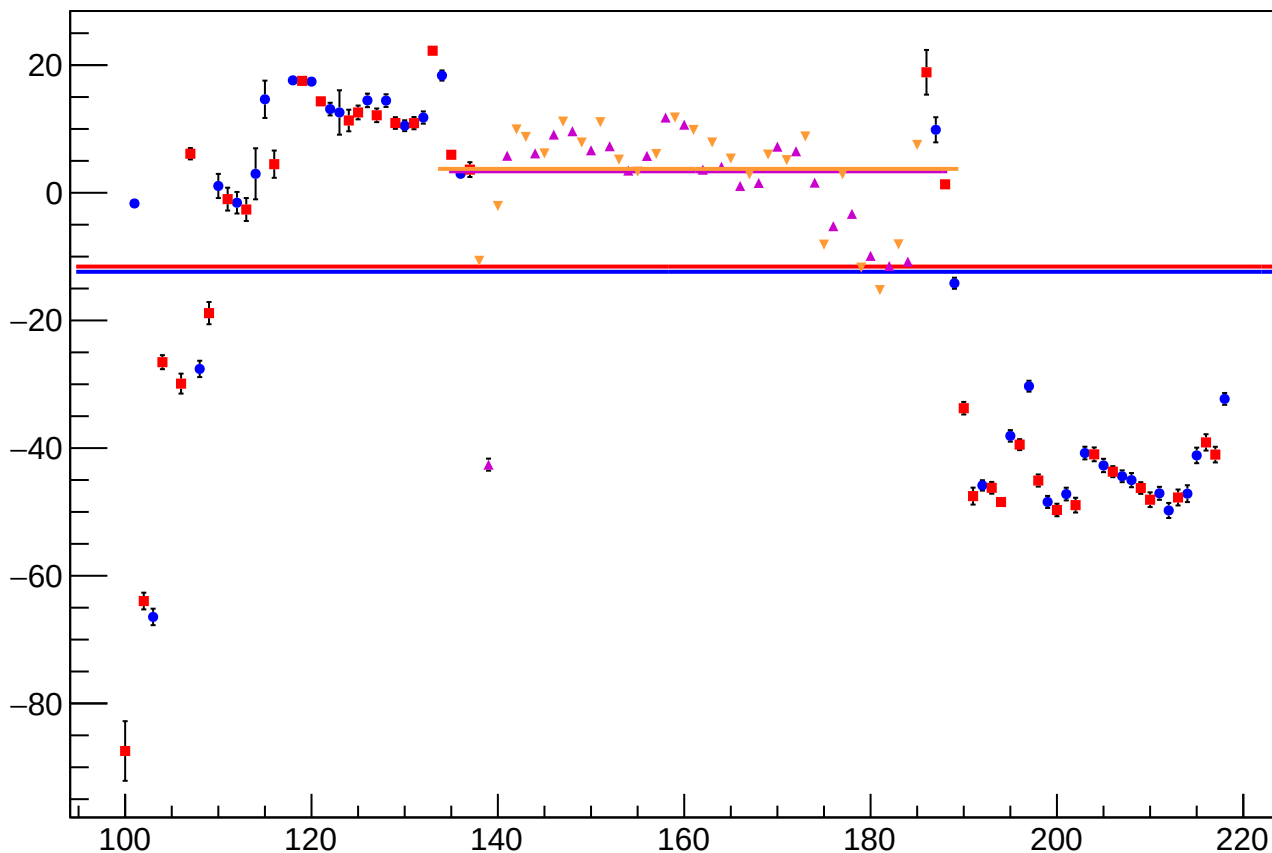
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.209 $\pm$ 0.175 χ^2 /NDF: 592.0/15
 Left Out: 15.263 $\pm$ 0.100 χ^2 /NDF:19175.2/24
 Right Out: 2.269 $\pm$ 0.170 χ^2 /NDF: 716.2/16
 Left In: 15.377 $\pm$ 0.103 χ^2 /NDF:16268.9/22

Left: 15.318 $\pm$ 0.072 χ^2 /NDF: 35444.7/47
 Right: 2.723 $\pm$ 0.122 χ^2 /NDF: 1323.1/32
 In: 12.268 $\pm$ 0.089 χ^2 /NDF:20443.8/38
 Out: 11.889 $\pm$ 0.086 χ^2 /NDF:24232.3/41
 All: 12.074 $\pm$ 0.062 χ^2 /NDF: 44685.5/80

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.378 ± 0.165 $\chi^2/\text{NDF}: 27148.1/32$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -11.560 ± 0.159 $\chi^2/\text{NDF}: 32277.6/35$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

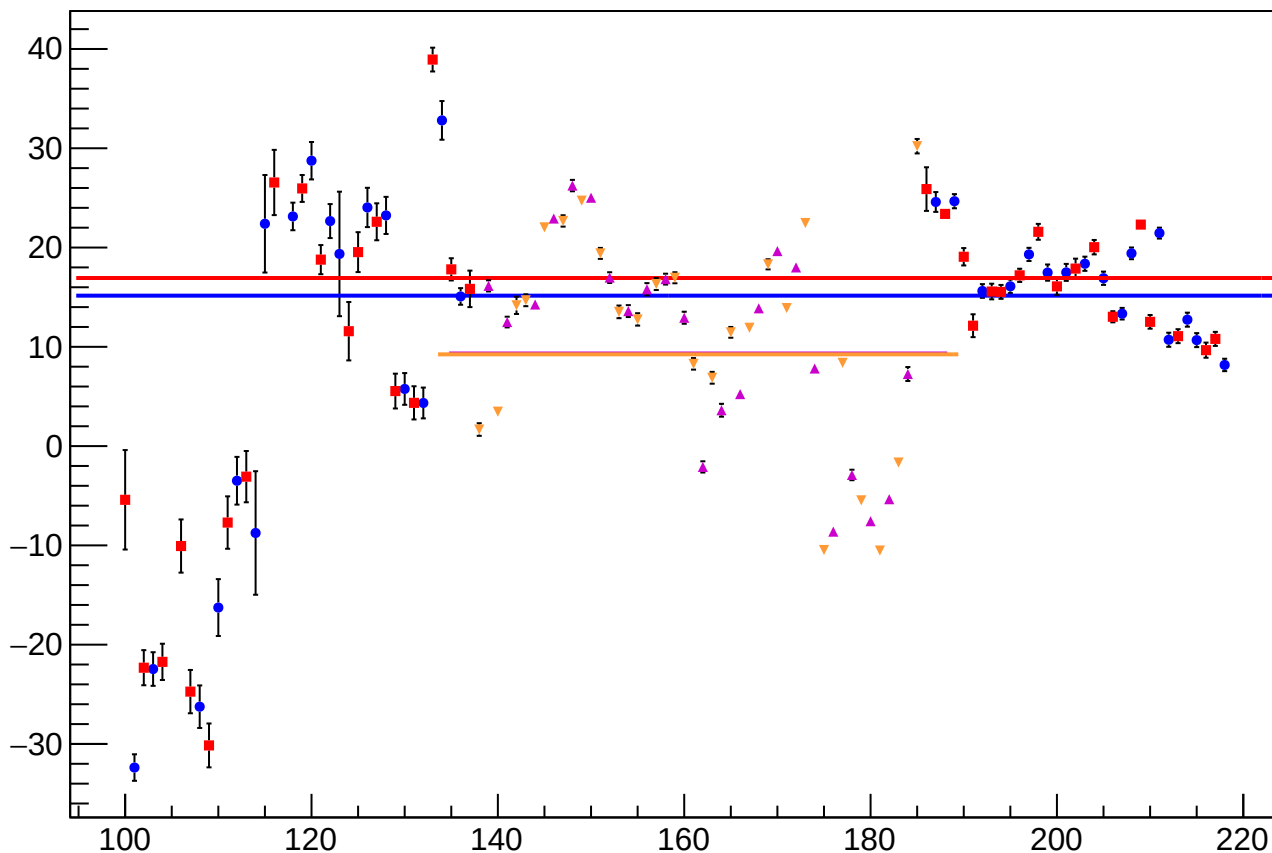
Right: -11.953 ± 0.114 $\chi^2/\text{NDF}: 59438.5/68$

In: 0.288 ± 0.073 $\chi^2/\text{NDF}: 43015.3/55$

Out: 0.718 ± 0.071 $\chi^2/\text{NDF}: 48996.6/60$

All: 0.510 ± 0.051 $\chi^2/\text{NDF}: 92029.9/116$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.154+/-0.158 χ^2/NDF : 3400.6/32

Left Out: 9.242+/-0.101 χ^2/NDF :13633.2/24

Right Out: 16.932+/-0.149 χ^2/NDF : 3497.0/35

Left In: 9.328+/-0.103 χ^2/NDF :11968.5/22

Left: 9.284+/-0.072 χ^2/NDF : 25602.0/47

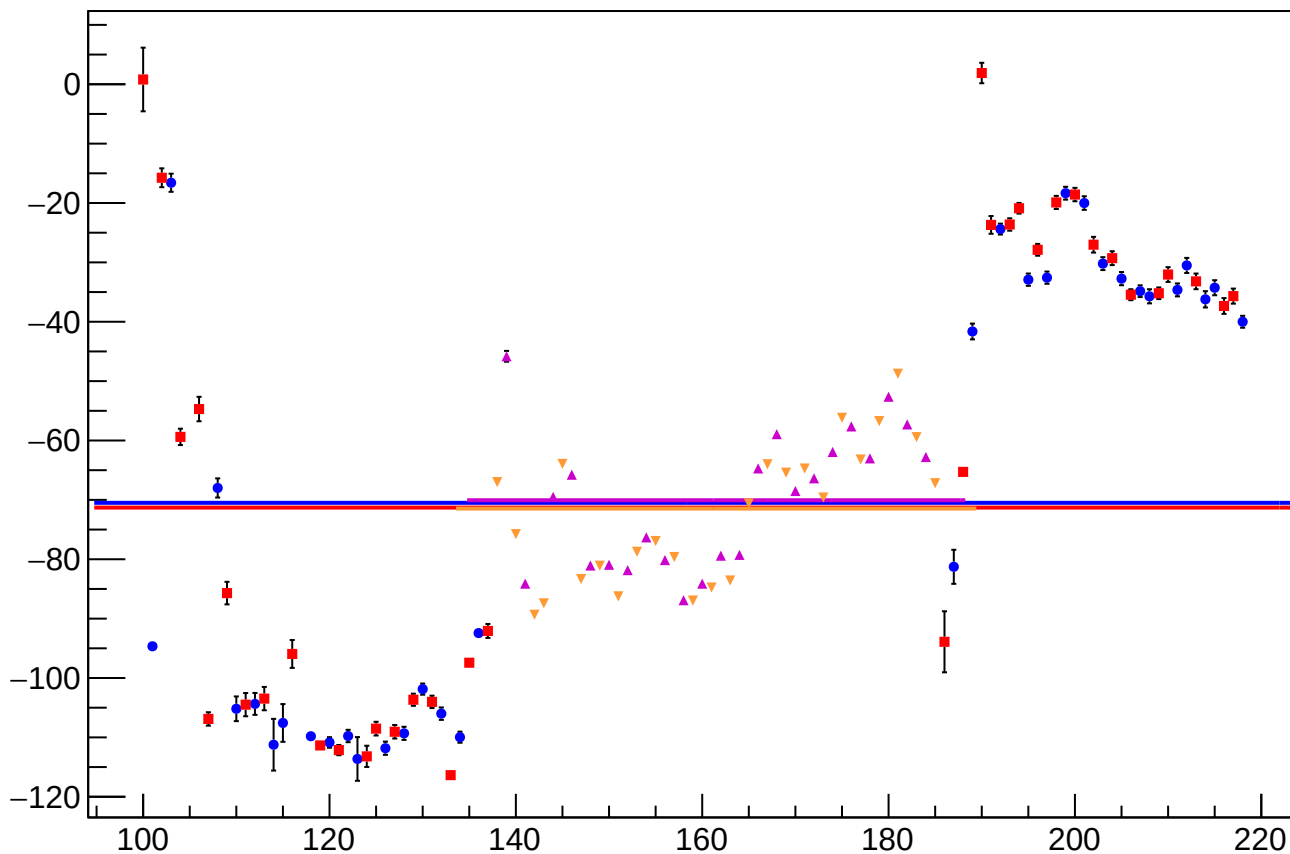
Right: 16.096+/-0.109 χ^2/NDF : 6964.3/68

In: 11.048+/-0.086 χ^2/NDF :16321.8/55

Out: 11.655+/-0.084 χ^2/NDF :18952.9/60

All: 11.361+/-0.060 χ^2/NDF : 35300.3/116

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -70.495 ± 0.188 $\chi^2/\text{NDF}: 37748.9/32$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -71.298 ± 0.184 $\chi^2/\text{NDF}: 44936.9/35$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

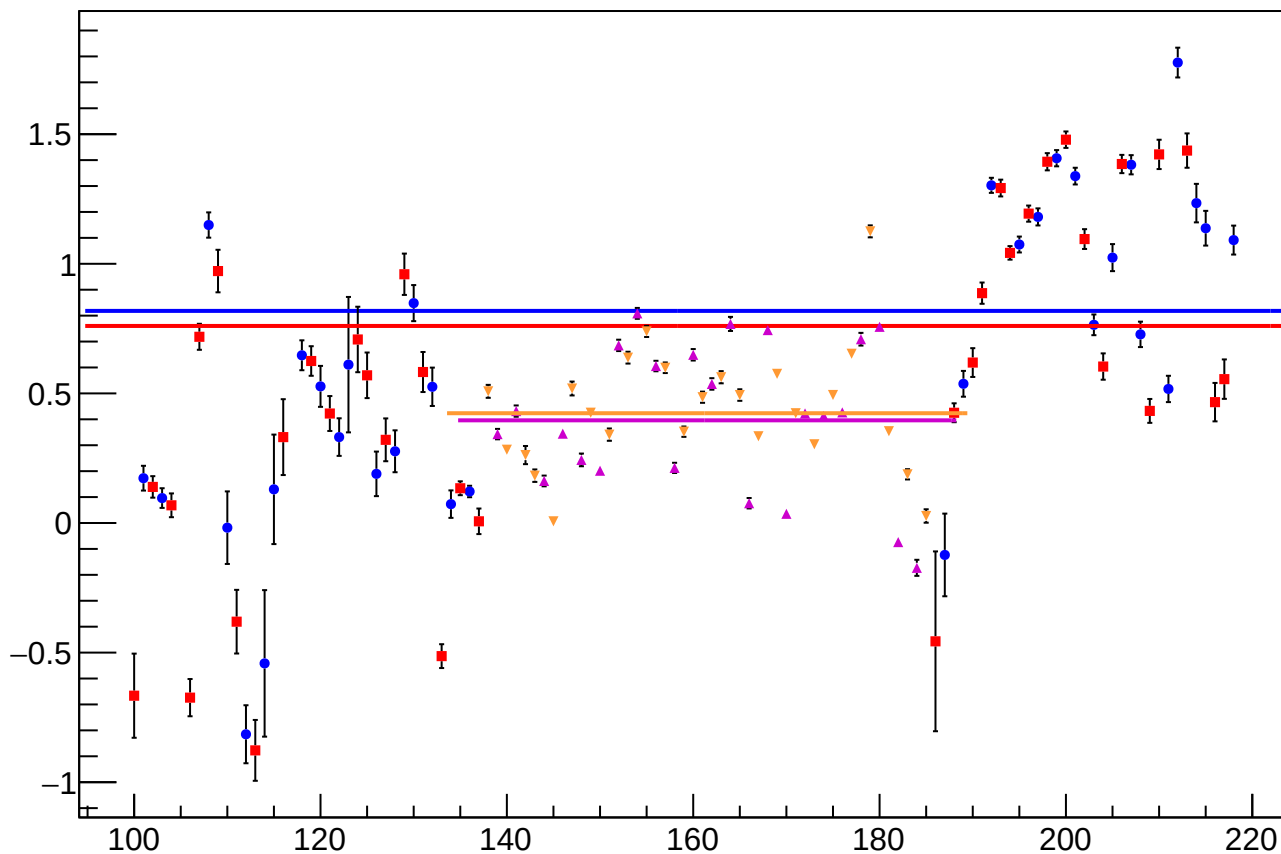
Right: -70.905 ± 0.132 $\chi^2/\text{NDF}: 82695.0/68$

In: -70.144 ± 0.082 $\chi^2/\text{NDF}: 50811.7/55$

Out: -71.433 ± 0.080 $\chi^2/\text{NDF}: 61347.2/60$

All: -70.805 ± 0.058 $\chi^2/\text{NDF}: 112284.2/116$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.818 $\pm$ 0.008 χ^2 /NDF: 4039.1/32

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.760 $\pm$ 0.008 χ^2 /NDF: 5136.7/35

Left In: 0.396 $\pm$ 0.004 χ^2 /NDF:4051.5/22

Left: 0.410 $\pm$ 0.003 χ^2 /NDF: 6958.5/47

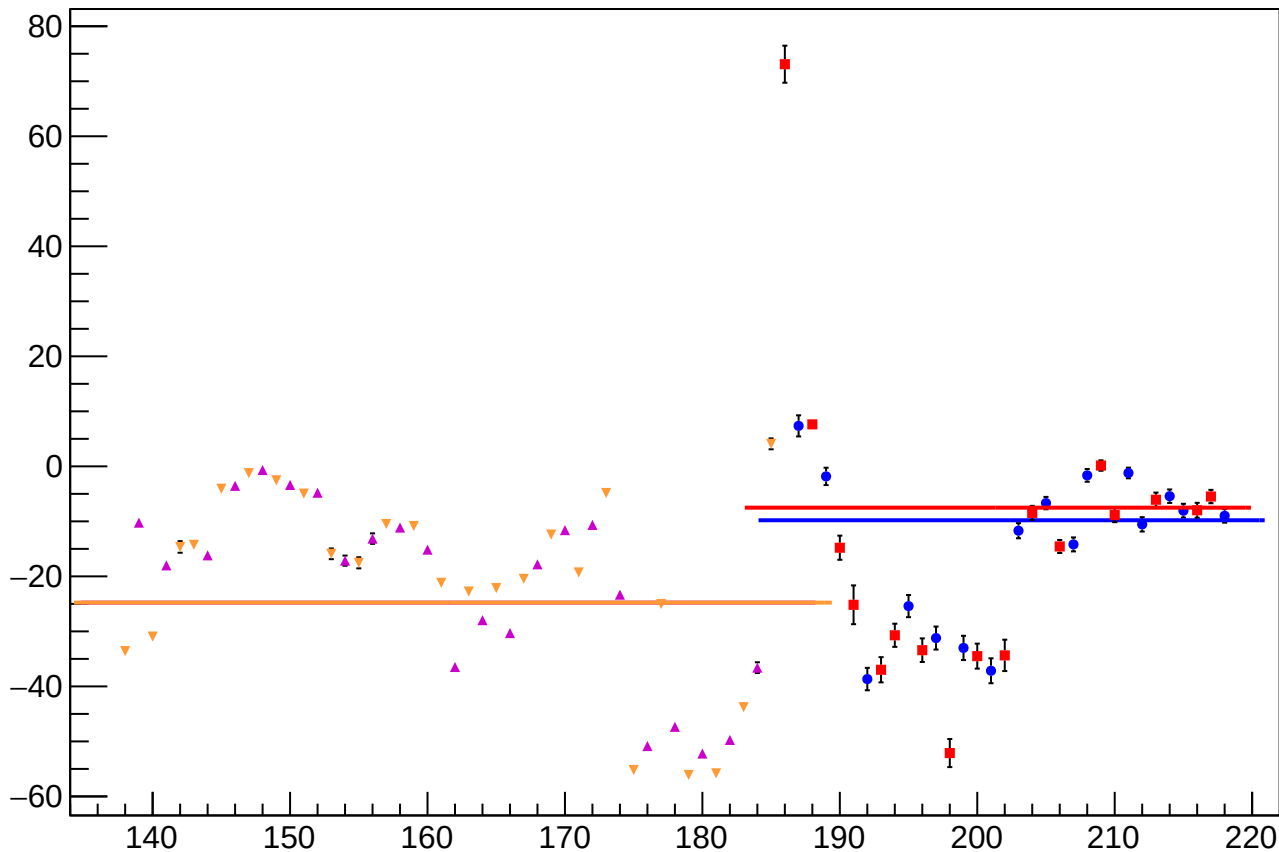
Right: 0.788 $\pm$ 0.006 χ^2 /NDF: 9201.3/68

In: 0.481 $\pm$ 0.004 χ^2 /NDF:10168.0/55

Out: 0.494 $\pm$ 0.004 χ^2 /NDF:9436.2/60

All: 0.488 $\pm$ 0.003 χ^2 /NDF: 19610.0/116

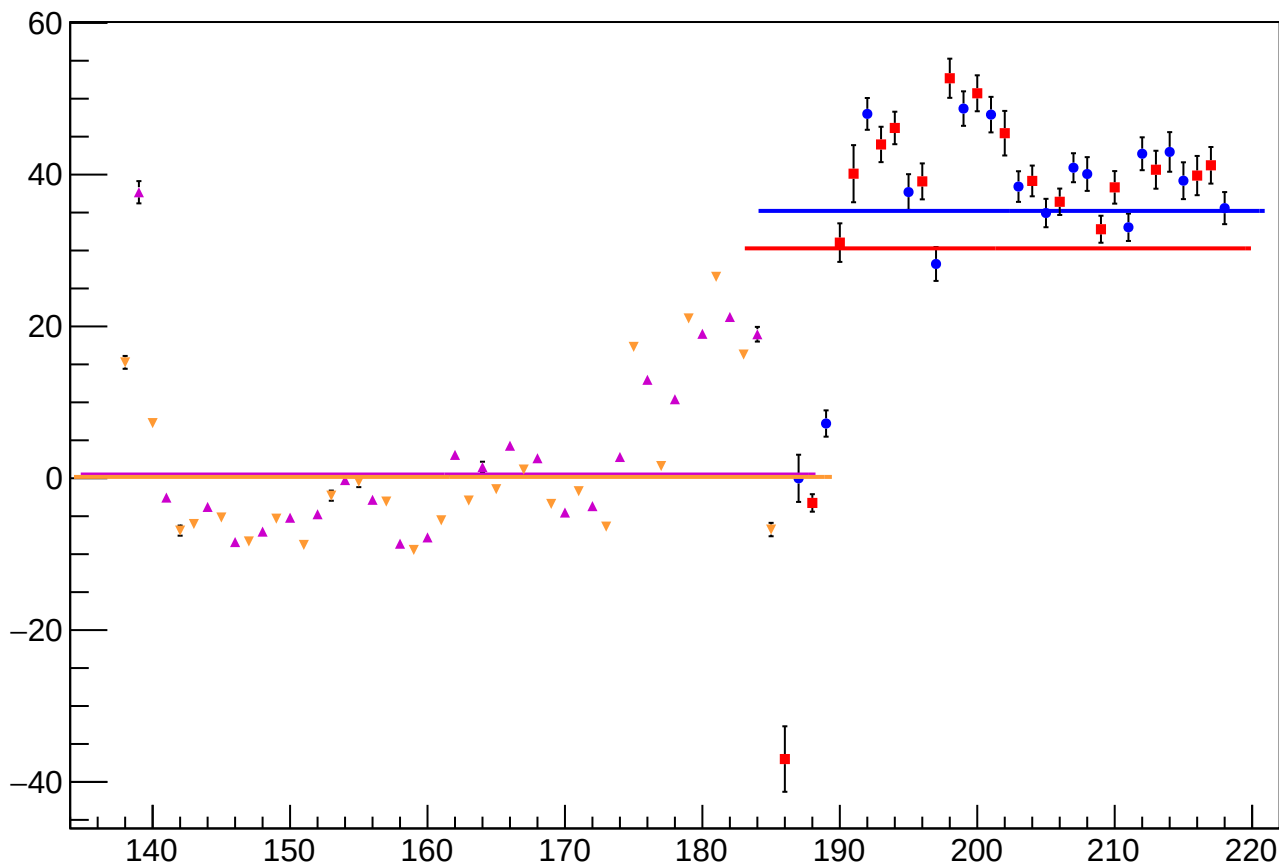
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.801 ± 0.352 χ^2/NDF : 892.6/15
 Left Out: -24.769 ± 0.139 χ^2/NDF : 18318.8/24
 Right Out: -7.508 ± 0.356 χ^2/NDF : 2040.6/16
 Left In: -24.775 ± 0.143 χ^2/NDF : 14807.4/22

Left: -24.772 ± 0.100 χ^2/NDF : 33126.2/47
 Right: -8.664 ± 0.250 χ^2/NDF : 2954.2/32
 In: -22.665 ± 0.132 χ^2/NDF : 17250.4/38
 Out: -22.470 ± 0.130 χ^2/NDF : 22402.0/41
 All: -22.565 ± 0.093 χ^2/NDF : 39653.4/80

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.219 ± 0.535 $\chi^2/\text{NDF}: 543.7/15$

Left Out: 0.177 ± 0.109 $\chi^2/\text{NDF}: 8295.6/24$

Right Out: 30.283 ± 0.524 $\chi^2/\text{NDF}: 1475.7/16$

Left In: 0.493 ± 0.112 $\chi^2/\text{NDF}: 6555.4/22$

Left: 0.330 ± 0.078 $\chi^2/\text{NDF}: 14855.0/47$

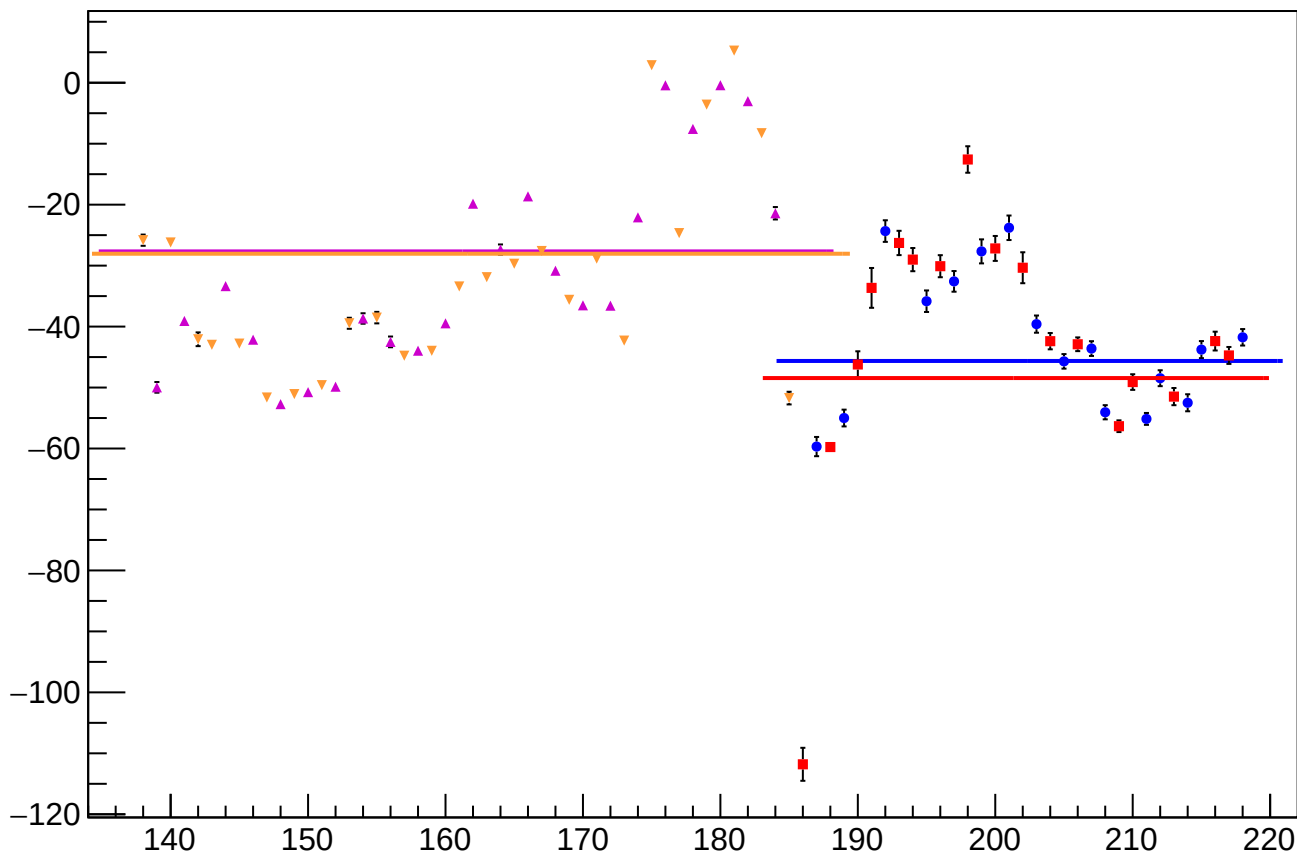
Right: 32.696 ± 0.374 $\chi^2/\text{NDF}: 2062.8/32$

In: 1.953 ± 0.110 $\chi^2/\text{NDF}: 11132.3/38$

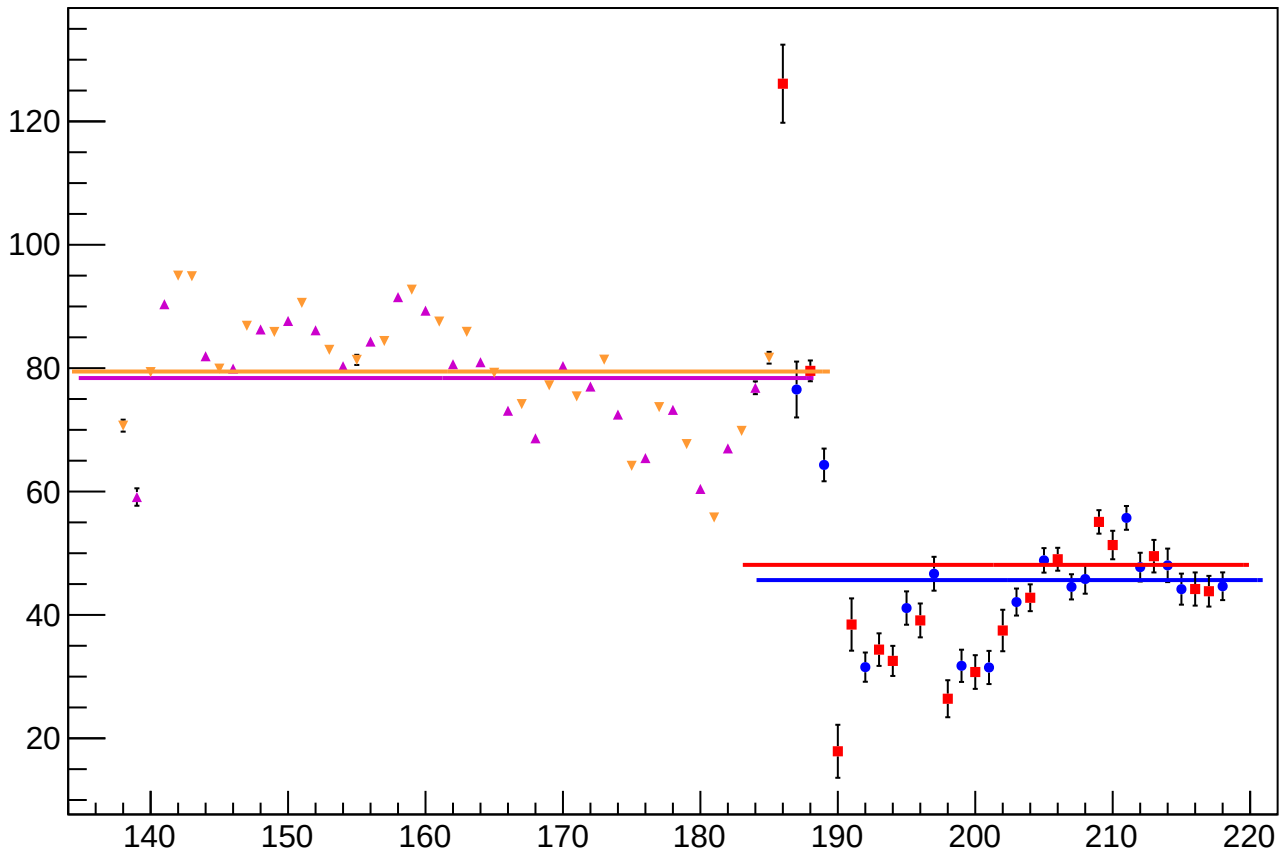
Out: 1.417 ± 0.106 $\chi^2/\text{NDF}: 12941.5/41$

All: 1.677 ± 0.076 $\chi^2/\text{NDF}: 24086.1/80$

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.647 ± 0.603 χ^2/NDF : 225.6/15

Left Out: 79.456 ± 0.123 χ^2/NDF : 6077.1/24

Right Out: 48.113 ± 0.612 χ^2/NDF : 762.6/16

Left In: 78.396 ± 0.127 χ^2/NDF : 4707.3/22

Left: 78.941 ± 0.088 χ^2/NDF : 10820.4/47

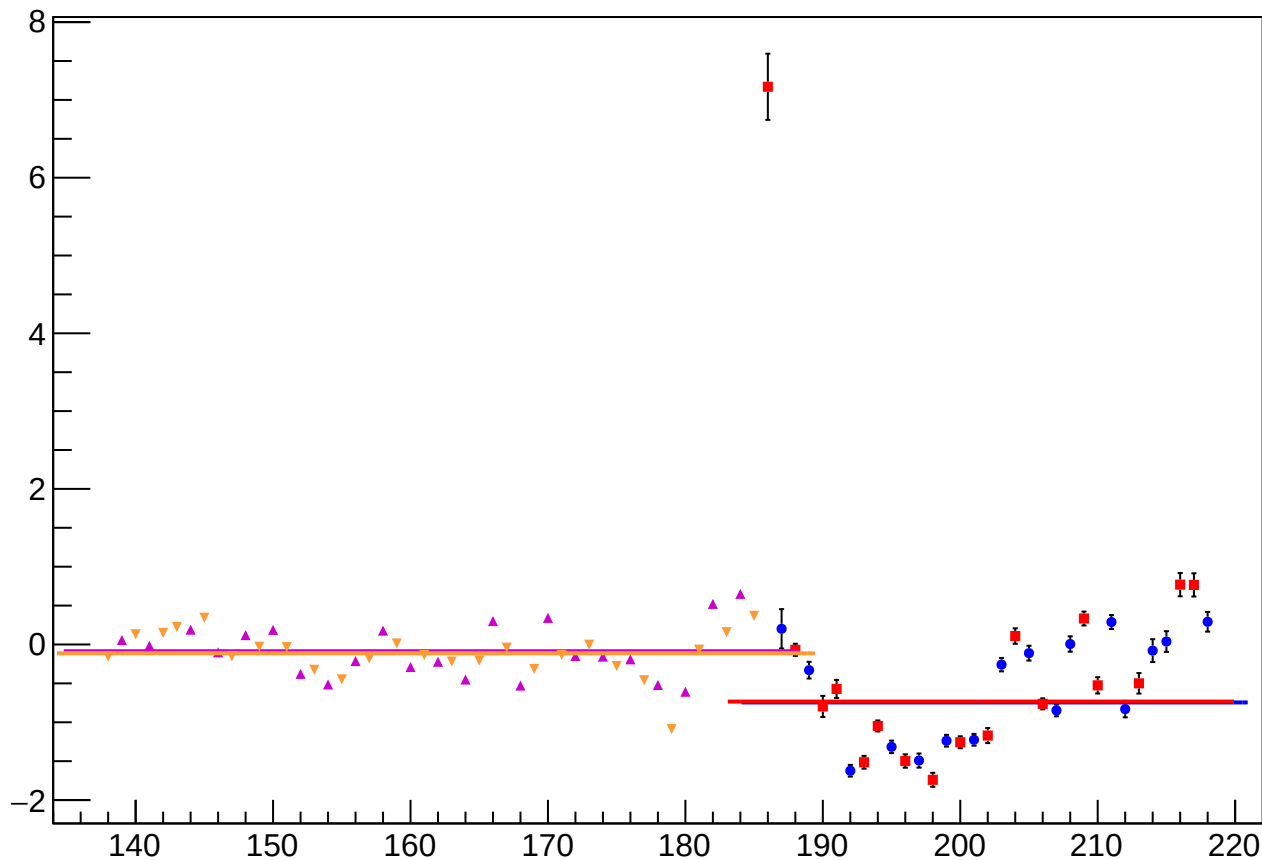
Right: 46.863 ± 0.430 χ^2/NDF : 996.5/32

In: 77.012 ± 0.124 χ^2/NDF : 7754.0/38

Out: 78.234 ± 0.121 χ^2/NDF : 9363.3/41

All: 77.640 ± 0.087 χ^2/NDF : 17167.1/80

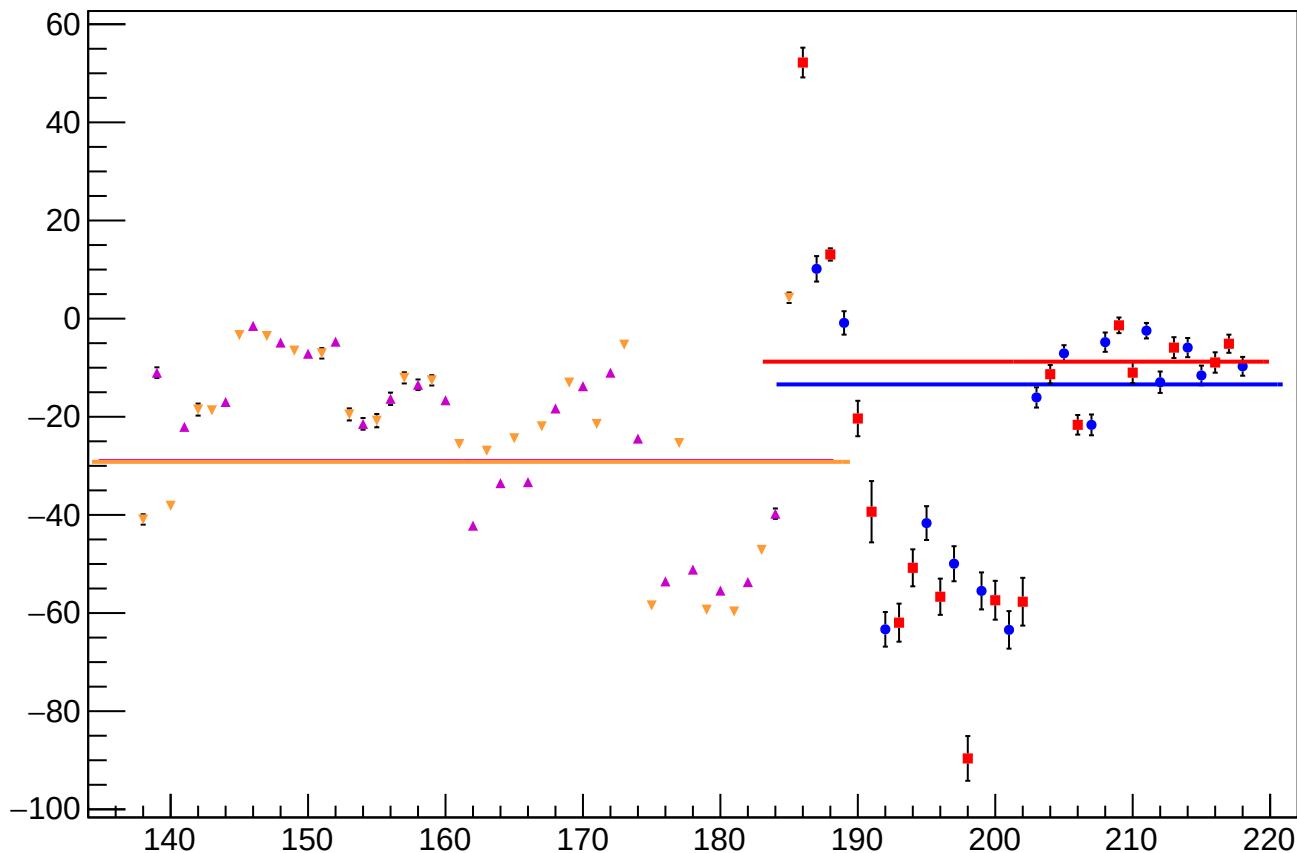
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.745 ± 0.024 χ^2/NDF : 757.4/15
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.734 ± 0.023 χ^2/NDF : 1224.2/16
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.739 ± 0.017 χ^2/NDF : 1981.7/32
 In: -0.124 ± 0.006 χ^2/NDF : 4626.5/38
 Out: -0.148 ± 0.006 χ^2/NDF : 4198.2/41
 All: -0.136 ± 0.004 χ^2/NDF : 8834.4/80

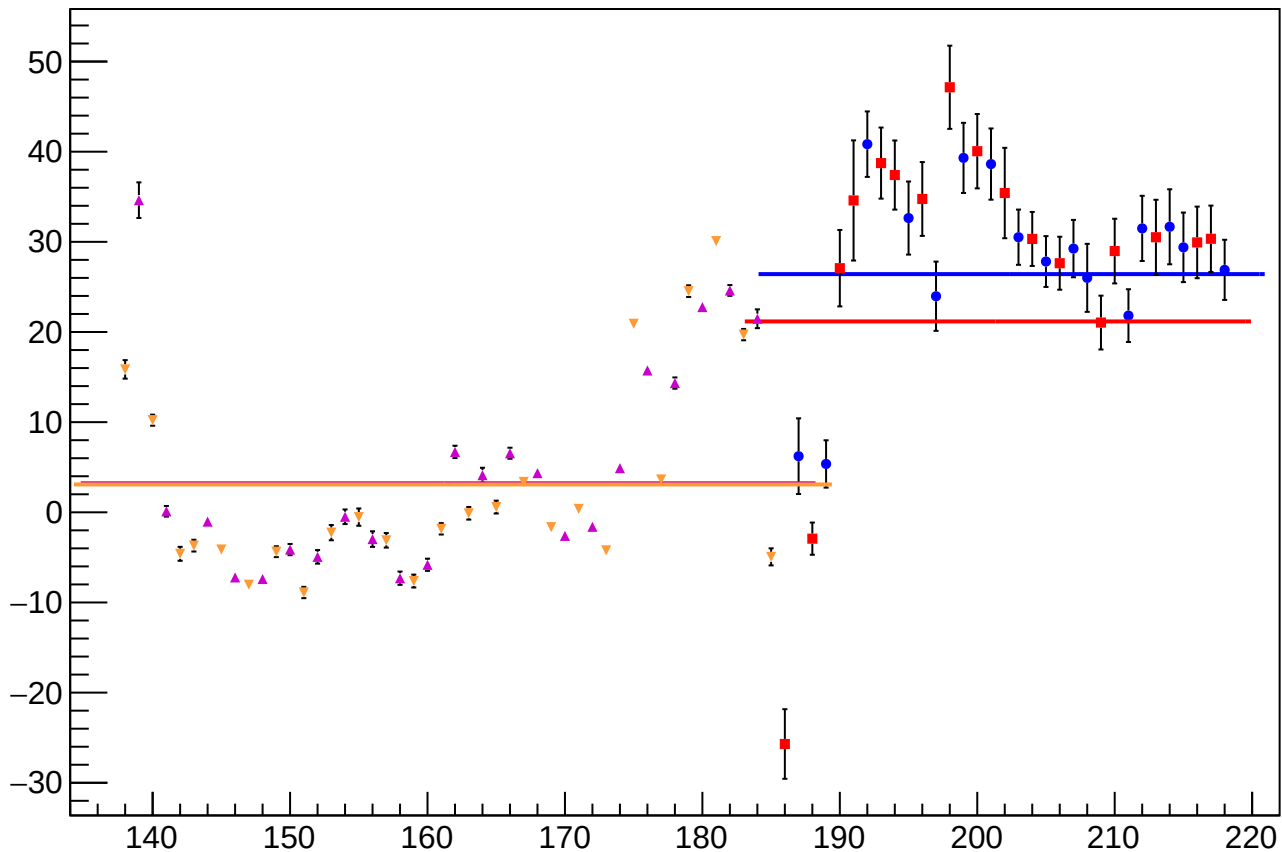
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.404 ± 0.562 χ^2/NDF : 894.7/15
 Left Out: -29.180 ± 0.157 χ^2/NDF : 16912.2/24
 Right Out: -8.768 ± 0.568 χ^2/NDF : 1861.6/16
 Left In: -29.003 ± 0.160 χ^2/NDF : 13416.8/22

Left: -29.093 ± 0.112 χ^2/NDF : 30329.6/47
 Right: -11.112 ± 0.399 χ^2/NDF : 2790.0/32
 In: -27.834 ± 0.154 χ^2/NDF : 15025.0/38
 Out: -27.735 ± 0.151 χ^2/NDF : 19974.0/41
 All: -27.784 ± 0.108 χ^2/NDF : 34999.2/80

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 26.421 $\pm$ 0.862 χ^2 /NDF: 135.9/15

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF: 8084.1/24

Right Out: 21.172 $\pm$ 0.842 χ^2 /NDF: 480.1/16

Left In: 3.221 $\pm$ 0.127 χ^2 /NDF: 6237.6/22

Left: 3.155 $\pm$ 0.089 χ^2 /NDF: 14322.2/47

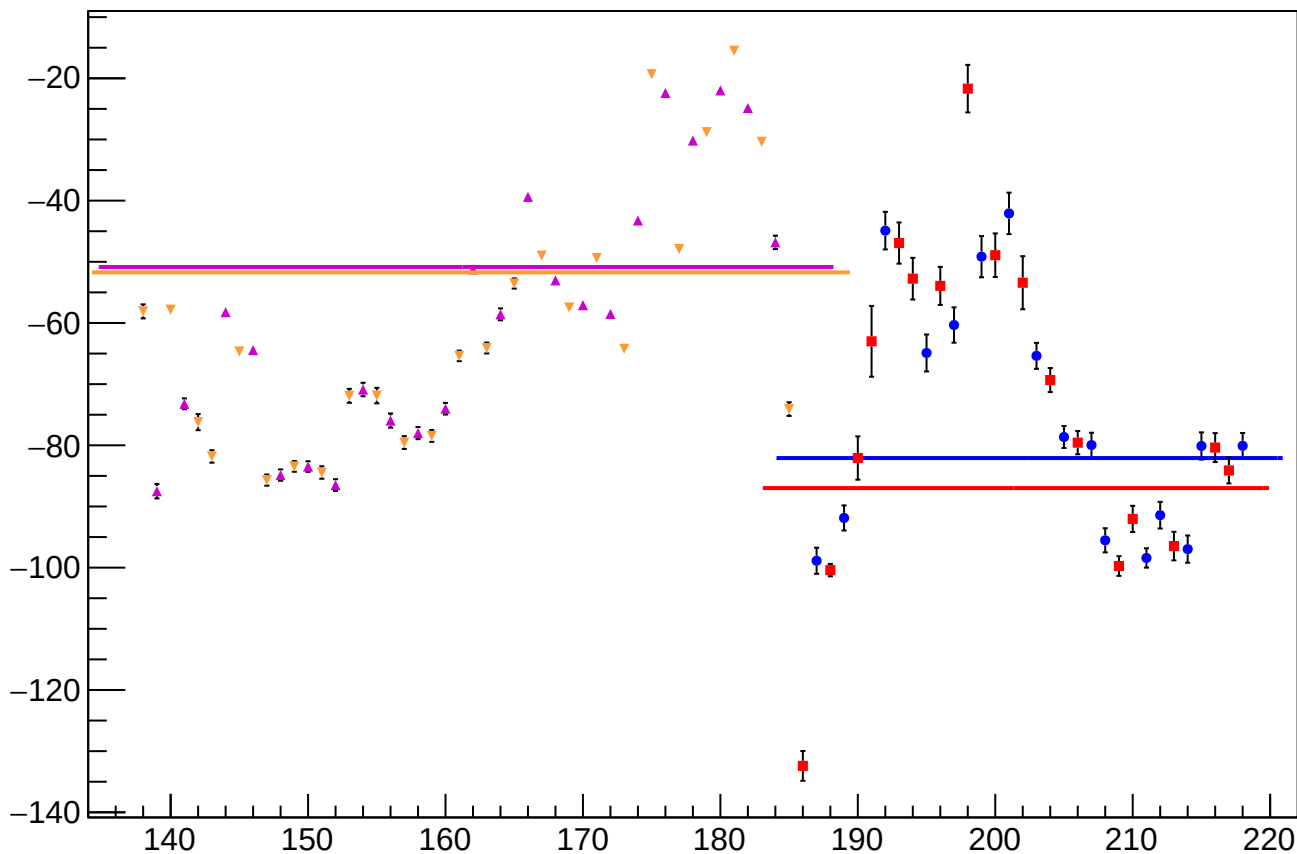
Right: 23.737 $\pm$ 0.602 χ^2 /NDF: 635.1/32

In: 3.714 $\pm$ 0.126 χ^2 /NDF: 7082.7/38

Out: 3.477 $\pm$ 0.123 χ^2 /NDF: 9015.0/41

All: 3.593 $\pm$ 0.088 χ^2 /NDF: 16099.5/80

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -82.085 ± 0.555 $\chi^2/\text{NDF}: 838.9/15$

Left Out: -51.729 ± 0.158 $\chi^2/\text{NDF}: 19538.0/24$

Right Out: -86.992 ± 0.538 $\chi^2/\text{NDF}: 1544.4/16$

Left In: -50.844 ± 0.160 $\chi^2/\text{NDF}: 17272.0/22$

Left: -51.293 ± 0.112 $\chi^2/\text{NDF}: 36825.5/47$

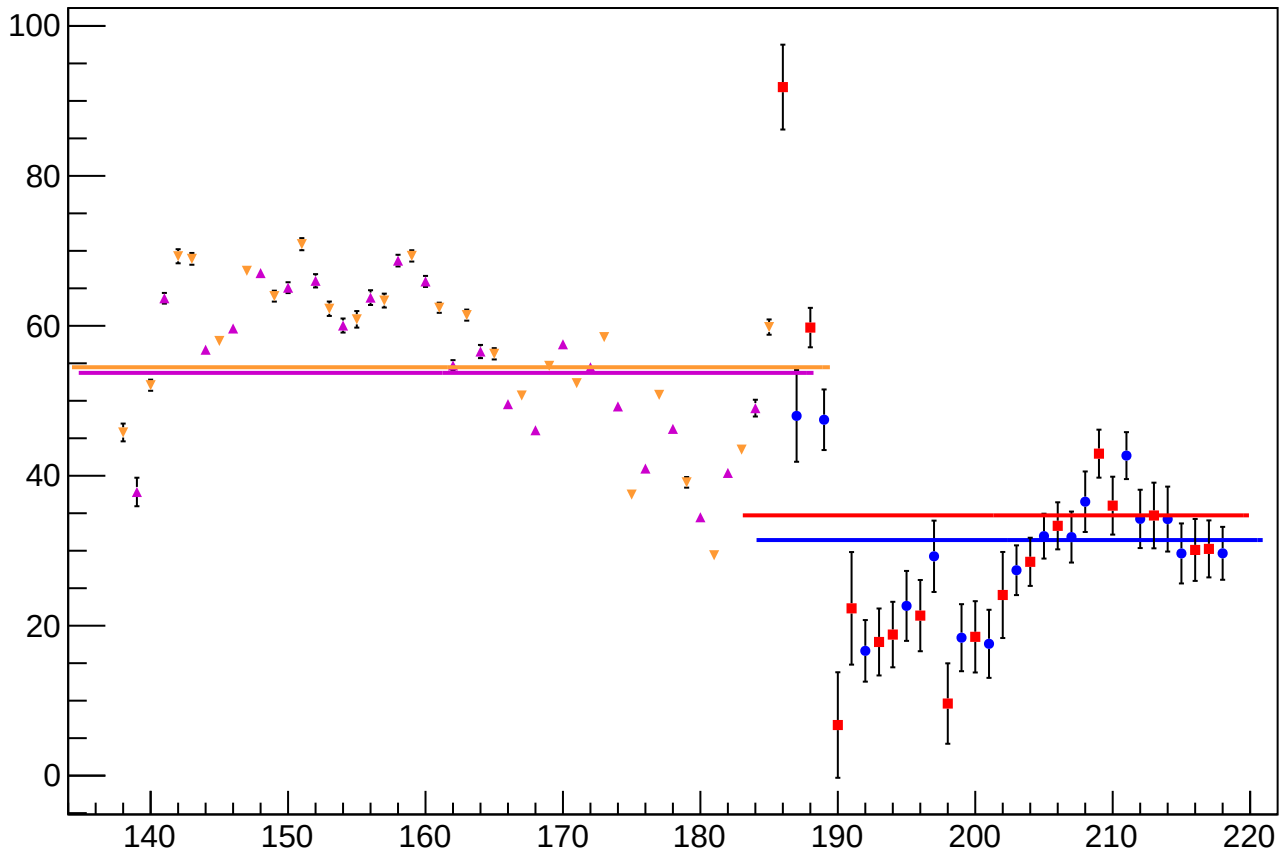
Right: -84.616 ± 0.386 $\chi^2/\text{NDF}: 2423.5/32$

In: -53.241 ± 0.154 $\chi^2/\text{NDF}: 21032.1/38$

Out: -54.524 ± 0.152 $\chi^2/\text{NDF}: 25035.2/41$

All: -53.892 ± 0.108 $\chi^2/\text{NDF}: 46102.6/80$

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.423 ± 0.976 $\chi^2/\text{NDF}: 75.0/15$

Left Out: 54.476 ± 0.140 $\chi^2/\text{NDF}: 6266.9/24$

Right Out: 34.718 ± 0.994 $\chi^2/\text{NDF}: 296.7/16$

Left In: 53.724 ± 0.143 $\chi^2/\text{NDF}: 4585.7/22$

Left: 54.107 ± 0.100 $\chi^2/\text{NDF}: 10866.7/47$

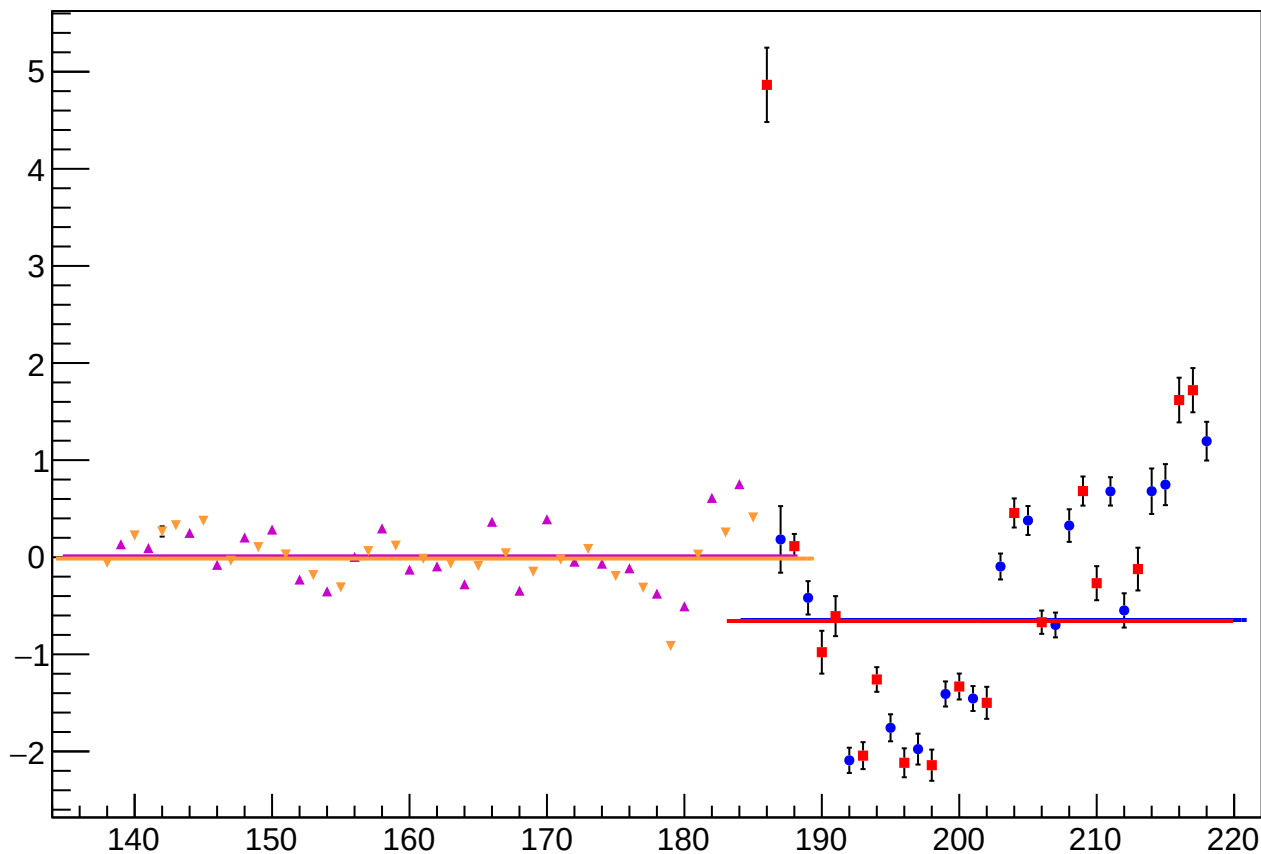
Right: 33.040 ± 0.696 $\chi^2/\text{NDF}: 377.3/32$

In: 53.254 ± 0.142 $\chi^2/\text{NDF}: 5172.1/38$

Out: 54.090 ± 0.139 $\chi^2/\text{NDF}: 6951.2/41$

All: 53.680 ± 0.099 $\chi^2/\text{NDF}: 12141.1/80$

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.646 ± 0.039 χ^2/NDF : 681.1/15

Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24

Right Out: -0.657 ± 0.039 χ^2/NDF : 955.1/16

Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47

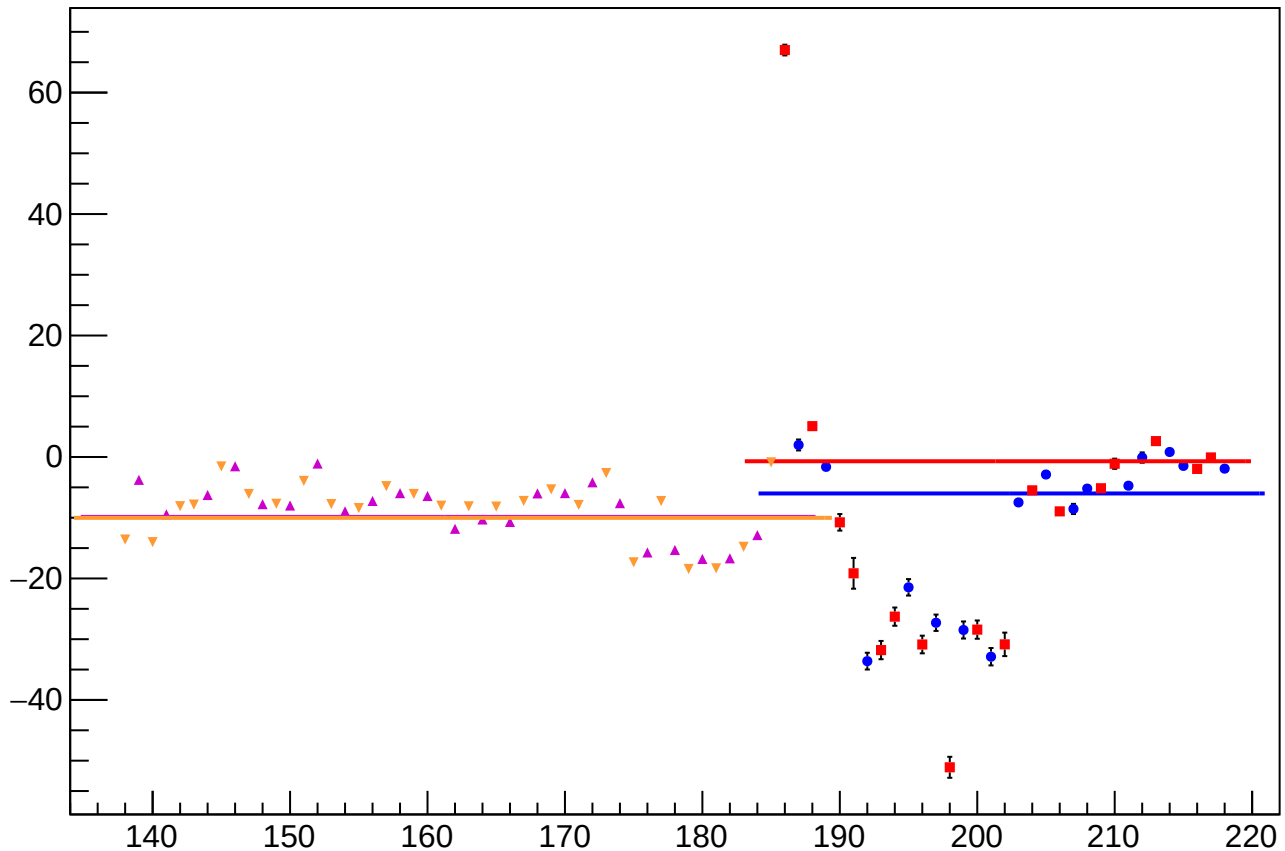
Right: -0.652 ± 0.028 χ^2/NDF : 1636.3/32

In: -0.009 ± 0.006 χ^2/NDF : 3176.0/38

Out: -0.031 ± 0.006 χ^2/NDF : 2873.5/41

All: -0.020 ± 0.005 χ^2/NDF : 6055.2/80

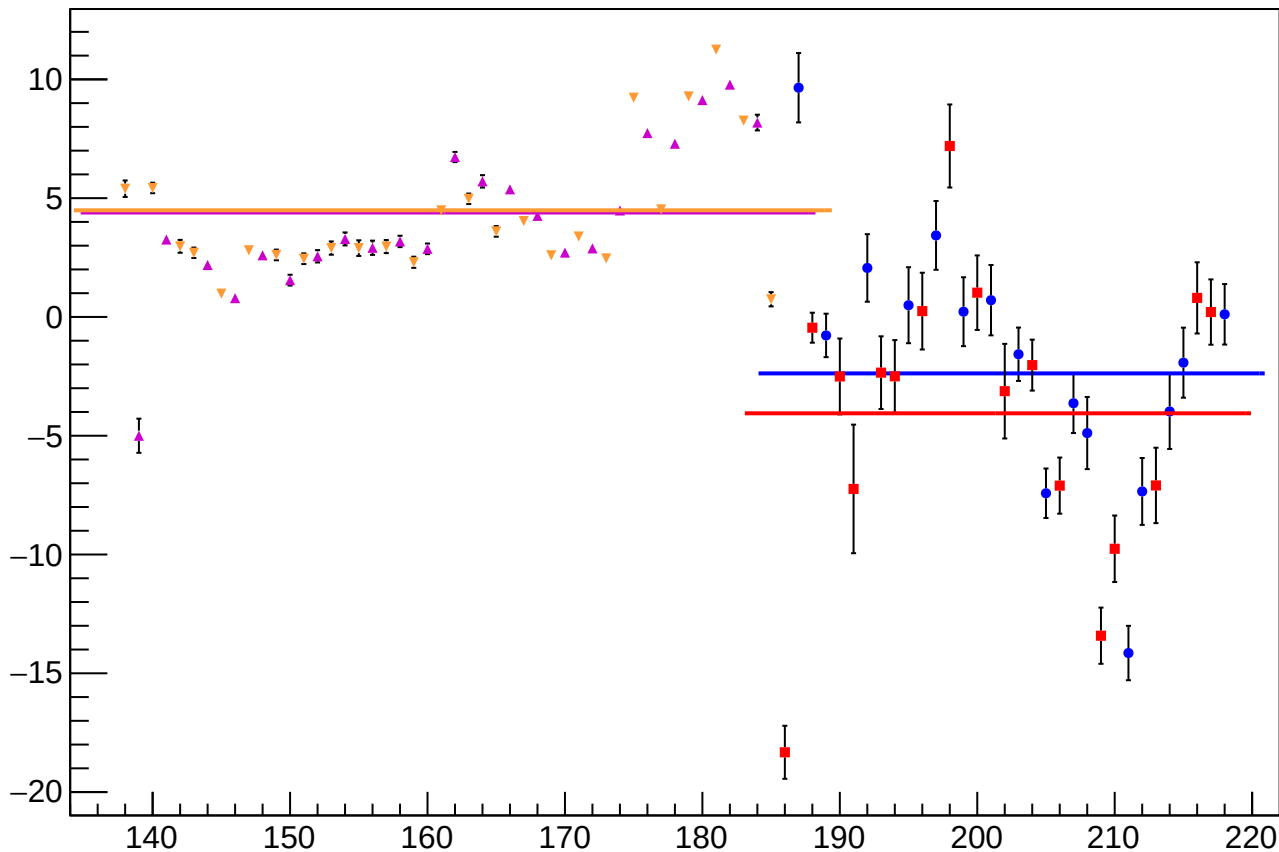
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.004 ± 0.212 $\chi^2/\text{NDF}: 1737.2/15$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: -0.702 ± 0.212 $\chi^2/\text{NDF}: 8936.7/16$
 Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$
 Right: -3.345 ± 0.150 $\chi^2/\text{NDF}: 10986.9/32$
 In: -9.652 ± 0.050 $\chi^2/\text{NDF}: 11395.2/38$
 Out: -9.512 ± 0.049 $\chi^2/\text{NDF}: 23322.6/41$
 All: -9.581 ± 0.035 $\chi^2/\text{NDF}: 34721.7/80$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.376 ± 0.325 χ^2/NDF : 258.3/15

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -4.056 ± 0.312 χ^2/NDF : 373.1/16

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

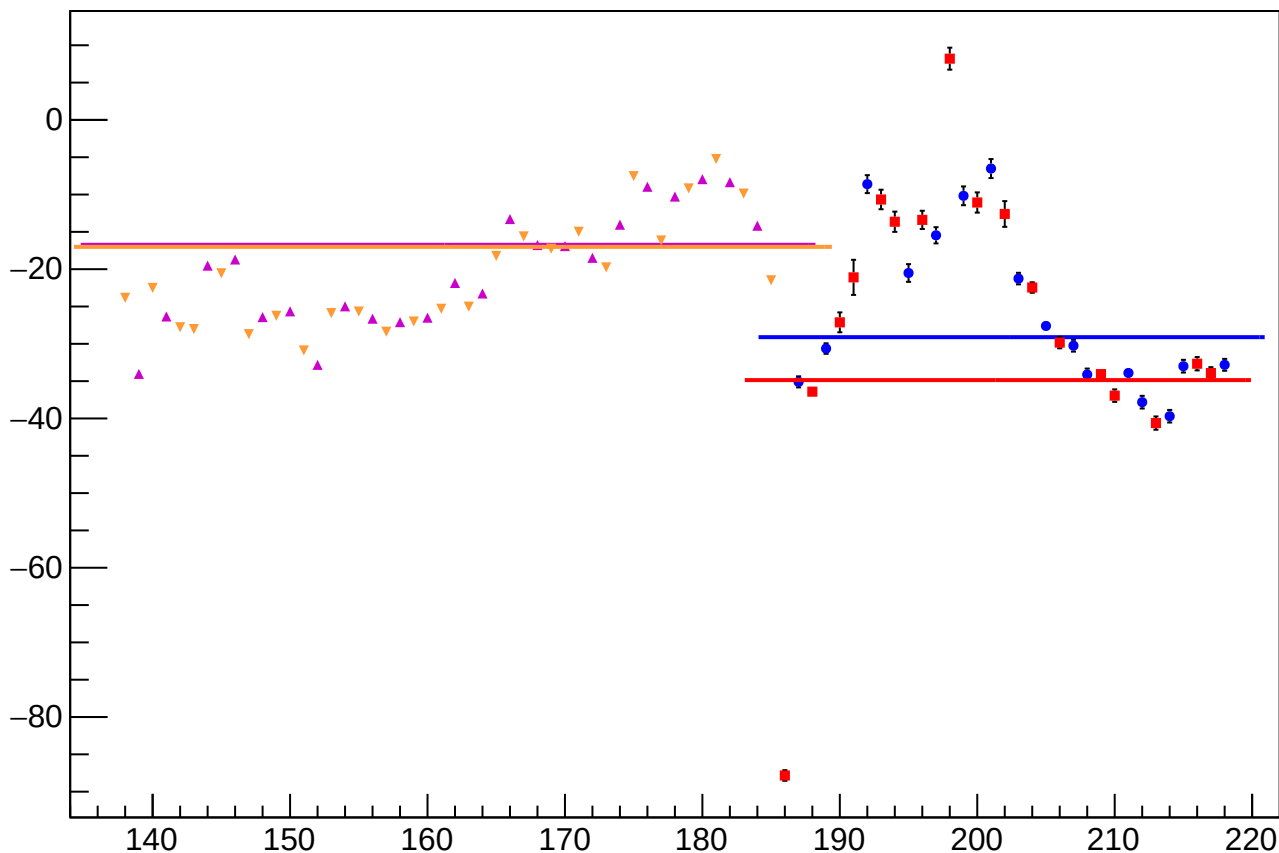
Right: -3.249 ± 0.225 χ^2/NDF : 645.3/32

In: 4.288 ± 0.041 χ^2/NDF : 4916.9/38

Out: 4.346 ± 0.040 χ^2/NDF : 5941.6/41

All: 4.318 ± 0.029 χ^2/NDF : 10859.5/80

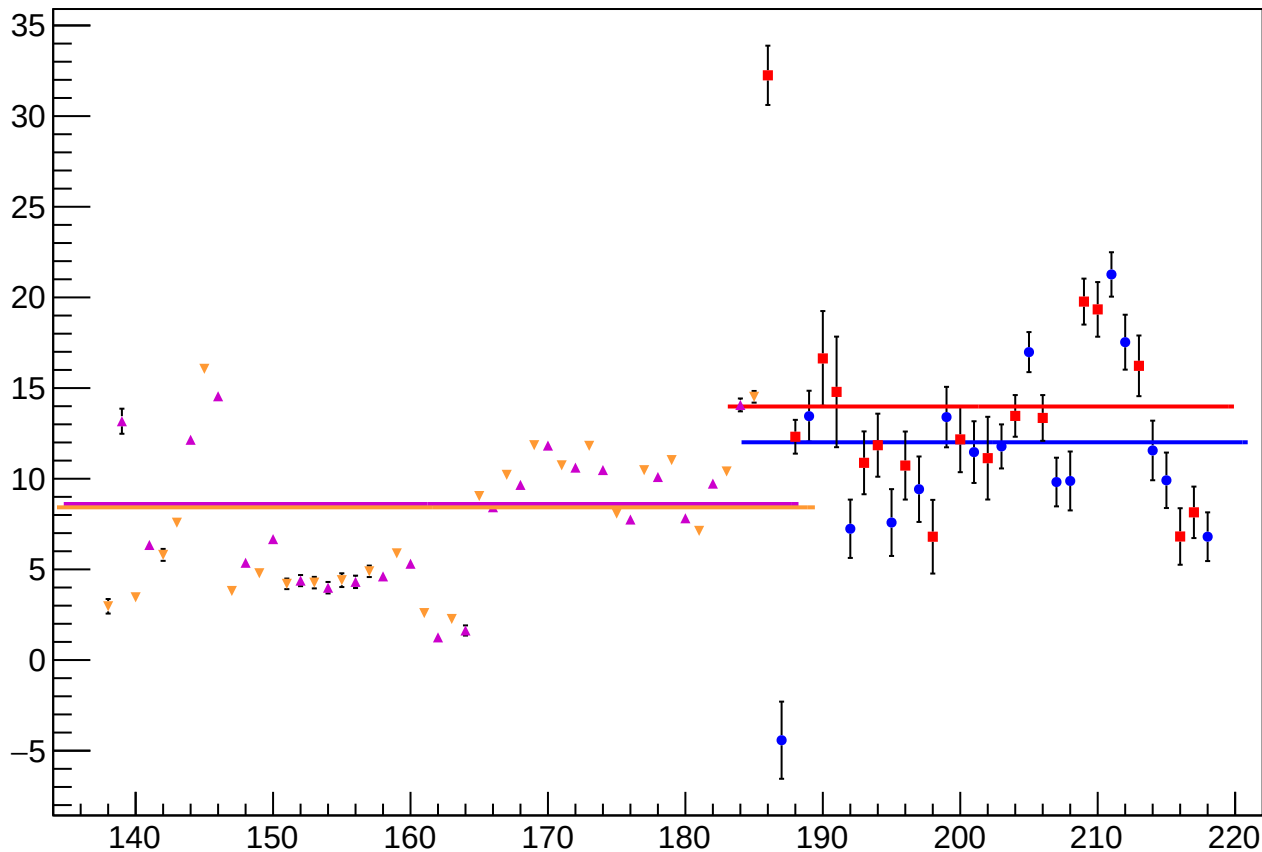
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -29.107 ± 0.209 $\chi^2/\text{NDF}: 1628.3/15$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -34.860 ± 0.199 $\chi^2/\text{NDF}: 8275.1/16$
 Left In: -16.732 ± 0.052 $\chi^2/\text{NDF}: 18777.2/22$

Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$
 Right: -32.134 ± 0.144 $\chi^2/\text{NDF}: 10300.1/32$
 In: -17.438 ± 0.050 $\chi^2/\text{NDF}: 23696.9/38$
 Out: -18.113 ± 0.049 $\chi^2/\text{NDF}: 37935.3/41$
 All: -17.780 ± 0.035 $\chi^2/\text{NDF}: 61724.4/80$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.011 ± 0.370 $\chi^2/\text{NDF}: 190.2/15$

Left Out: 8.422 ± 0.046 $\chi^2/\text{NDF}: 6470.1/24$

Right Out: 13.984 ± 0.373 $\chi^2/\text{NDF}: 225.7/16$

Left In: 8.606 ± 0.046 $\chi^2/\text{NDF}: 5504.2/22$

Left: 8.513 ± 0.032 $\chi^2/\text{NDF}: 11982.4/47$

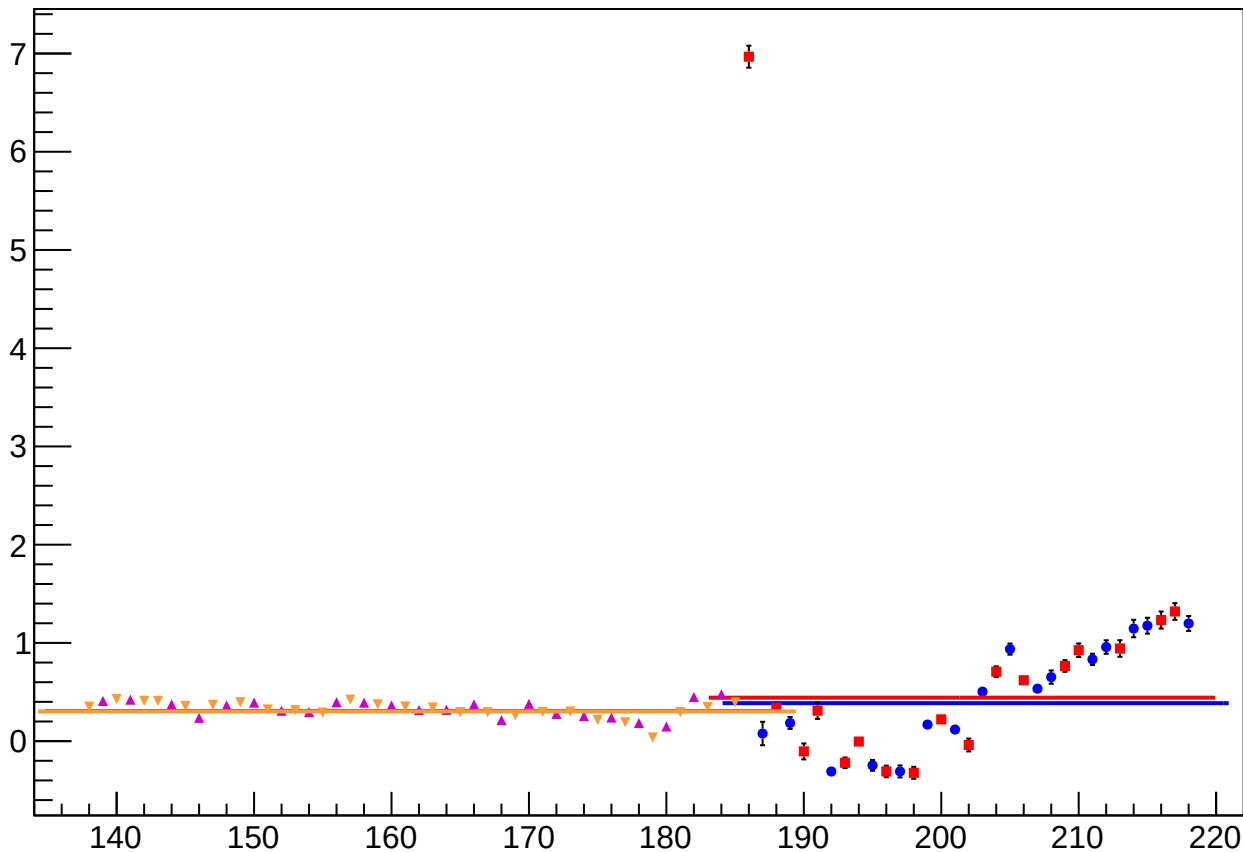
Right: 12.988 ± 0.263 $\chi^2/\text{NDF}: 429.9/32$

In: 8.659 ± 0.046 $\chi^2/\text{NDF}: 5777.8/38$

Out: 8.504 ± 0.045 $\chi^2/\text{NDF}: 6914.7/41$

All: 8.580 ± 0.032 $\chi^2/\text{NDF}: 12698.3/80$

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.387 $\pm$ 0.015 χ^2 /NDF: 1054.4/15

Left Out: 0.302 $\pm$ 0.002 χ^2 /NDF:1590.9/24

Right Out: 0.442 $\pm$ 0.015 χ^2 /NDF: 4400.1/16

Left In: 0.307 $\pm$ 0.002 χ^2 /NDF:1699.5/22

Left: 0.305 $\pm$ 0.001 χ^2 /NDF: 3293.0/47

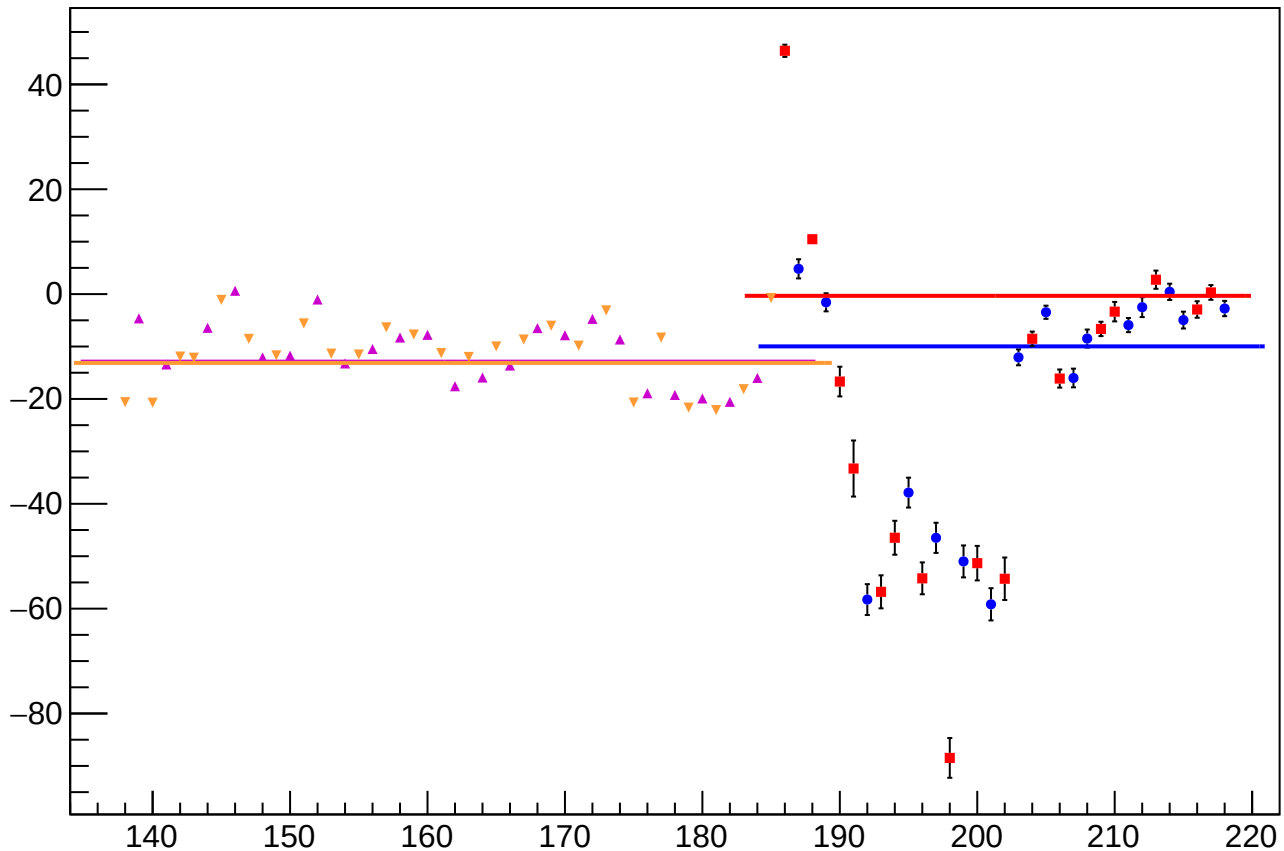
Right: 0.414 $\pm$ 0.011 χ^2 /NDF: 5461.5/32

In: 0.309 $\pm$ 0.002 χ^2 /NDF:2781.6/38

Out: 0.305 $\pm$ 0.002 χ^2 /NDF:6076.9/41

All: 0.307 $\pm$ 0.001 χ^2 /NDF: 8860.0/80

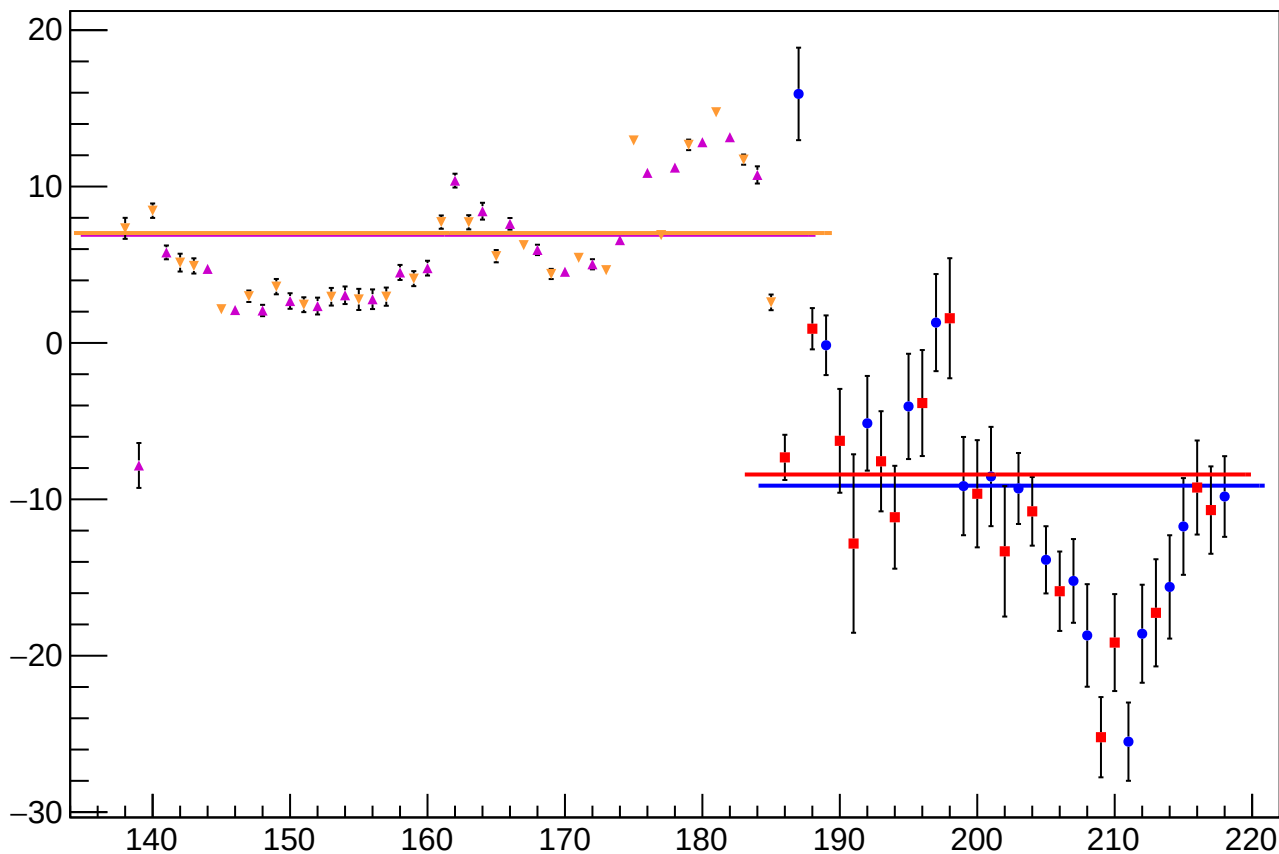
reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.973 ± 0.446 $\chi^2/\text{NDF}: 1197.4/15$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: -0.330 ± 0.426 $\chi^2/\text{NDF}: 3755.4/16$
 Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$
 Right: -4.934 ± 0.308 $\chi^2/\text{NDF}: 5197.0/32$
 In: -12.759 ± 0.093 $\chi^2/\text{NDF}: 6014.4/38$
 Out: -12.536 ± 0.091 $\chi^2/\text{NDF}: 10592.0/41$
 All: -12.646 ± 0.065 $\chi^2/\text{NDF}: 16609.3/80$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.126 ± 0.683 χ^2/NDF : 184.3/15

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -8.412 ± 0.620 χ^2/NDF : 134.4/16

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

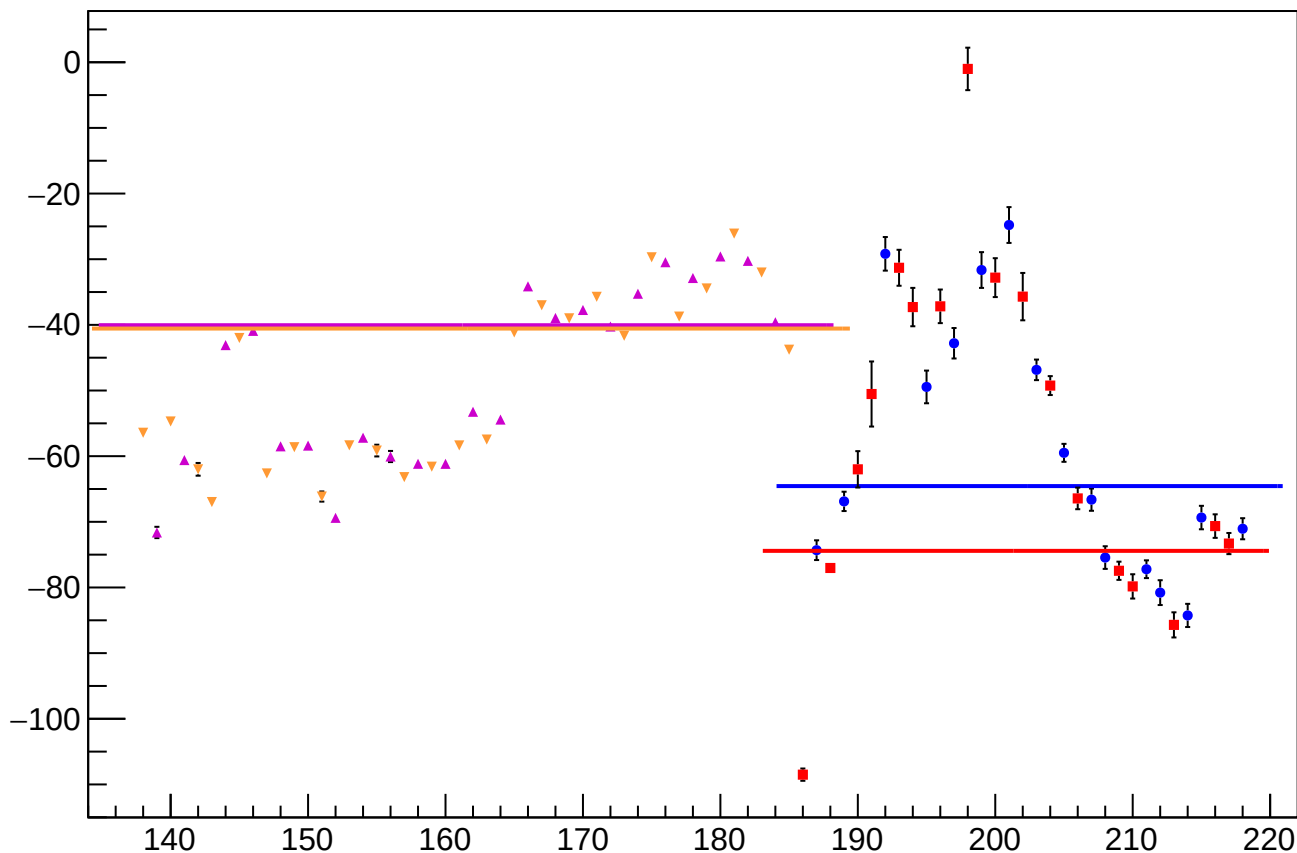
Right: -8.734 ± 0.459 χ^2/NDF : 319.4/32

In: 6.709 ± 0.077 χ^2/NDF : 3156.6/38

Out: 6.792 ± 0.077 χ^2/NDF : 3411.2/41

All: 6.751 ± 0.054 χ^2/NDF : 6568.3/80

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.557 ± 0.441 χ^2/NDF : 1211.1/15

Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24

Right Out: -74.422 ± 0.395 χ^2/NDF : 3213.1/16

Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47

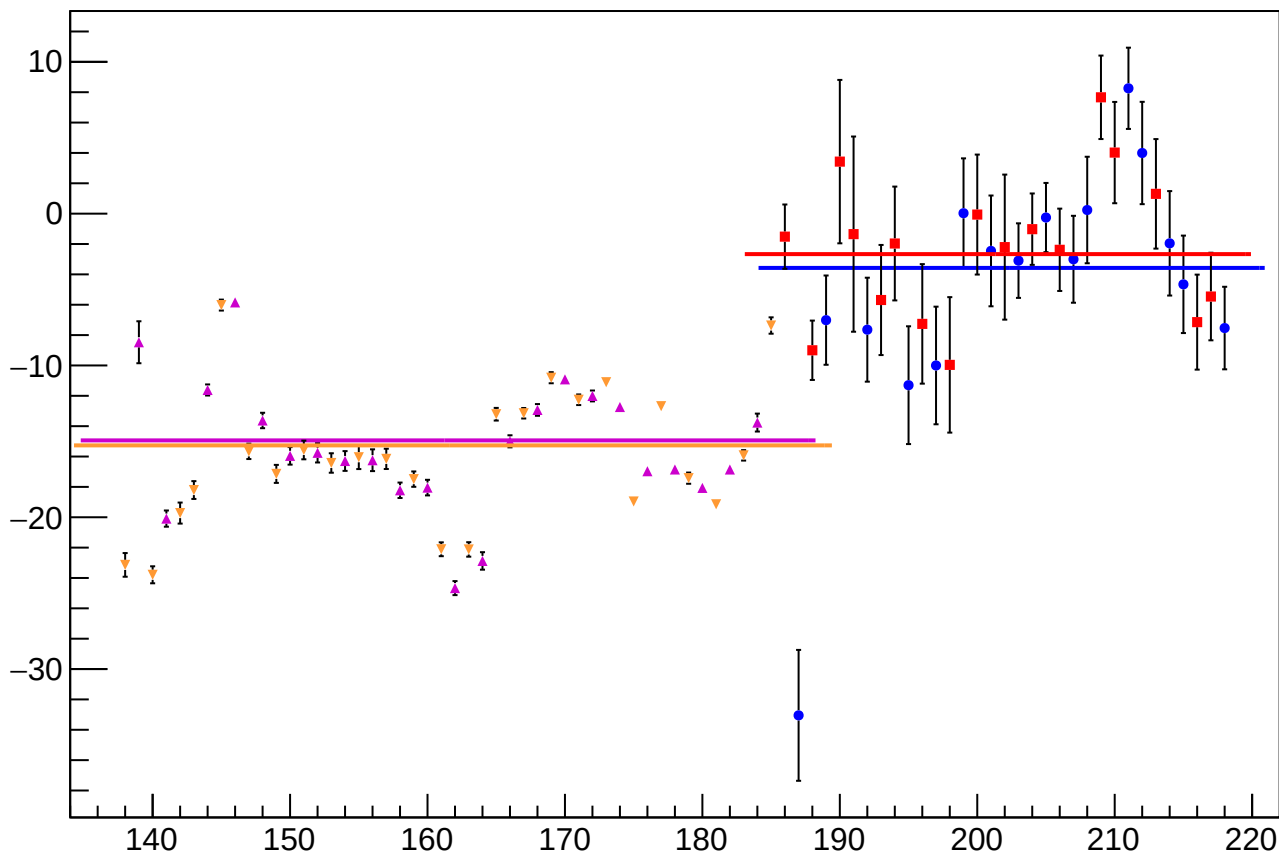
Right: -70.027 ± 0.294 χ^2/NDF : 4702.0/32

In: -41.155 ± 0.093 χ^2/NDF : 18089.6/38

Out: -42.403 ± 0.092 χ^2/NDF : 25795.9/41

All: -41.789 ± 0.066 χ^2/NDF : 43976.0/80

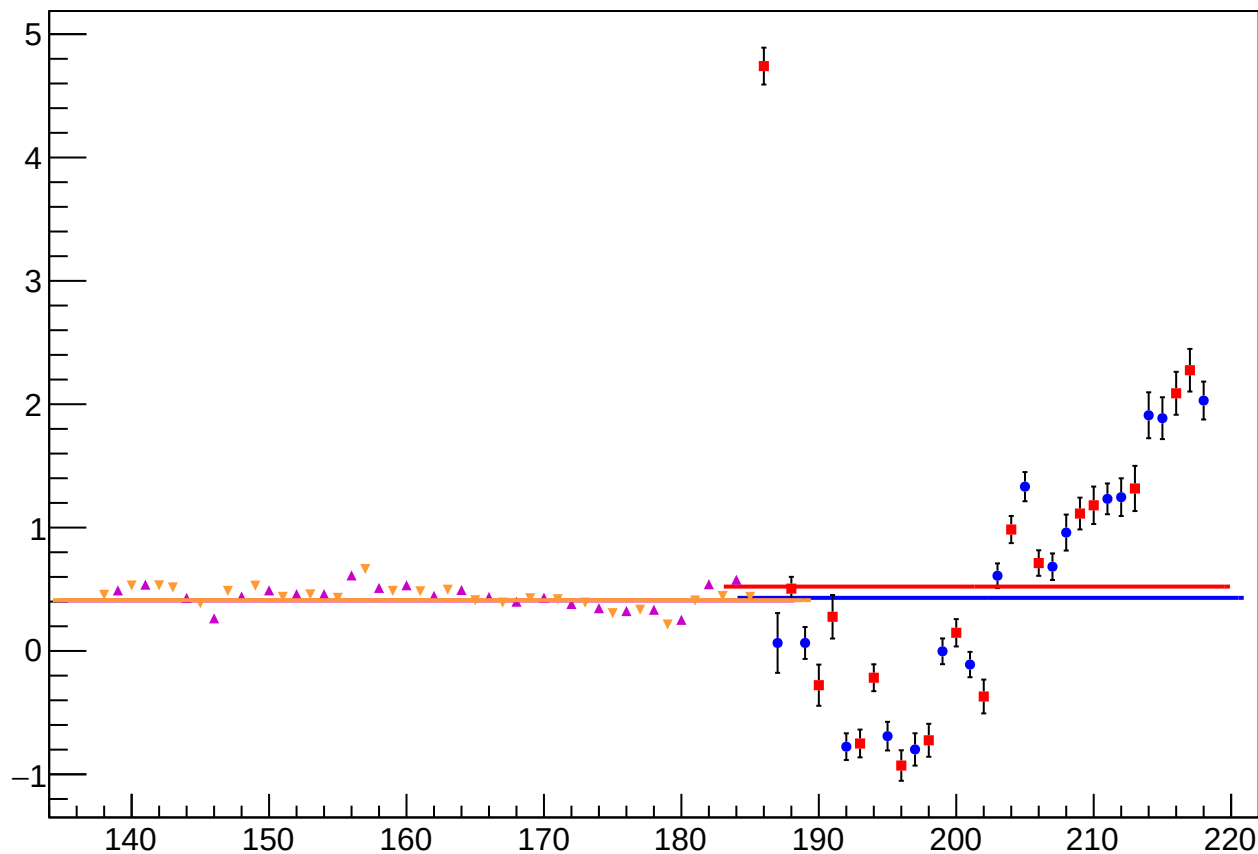
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.574 ± 0.780 $\chi^2/\text{NDF}: 87.8/15$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -2.665 ± 0.756 $\chi^2/\text{NDF}: 40.2/16$
 Left In: -14.936 ± 0.087 $\chi^2/\text{NDF}: 2199.7/22$

Left: -15.103 ± 0.061 $\chi^2/\text{NDF}: 4802.4/47$
 Right: -3.106 ± 0.543 $\chi^2/\text{NDF}: 128.6/32$
 In: -14.797 ± 0.086 $\chi^2/\text{NDF}: 2497.3/38$
 Out: -15.105 ± 0.085 $\chi^2/\text{NDF}: 2910.1/41$
 All: -14.953 ± 0.061 $\chi^2/\text{NDF}: 5413.8/80$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.430 ± 0.032 $\chi^2/\text{NDF}: 755.8/15$

Left Out: 0.411 ± 0.004 $\chi^2/\text{NDF}: 428.7/24$

Right Out: 0.522 ± 0.031 $\chi^2/\text{NDF}: 1538.3/16$

Left In: 0.409 ± 0.004 $\chi^2/\text{NDF}: 557.8/22$

Left: 0.410 ± 0.003 $\chi^2/\text{NDF}: 986.7/47$

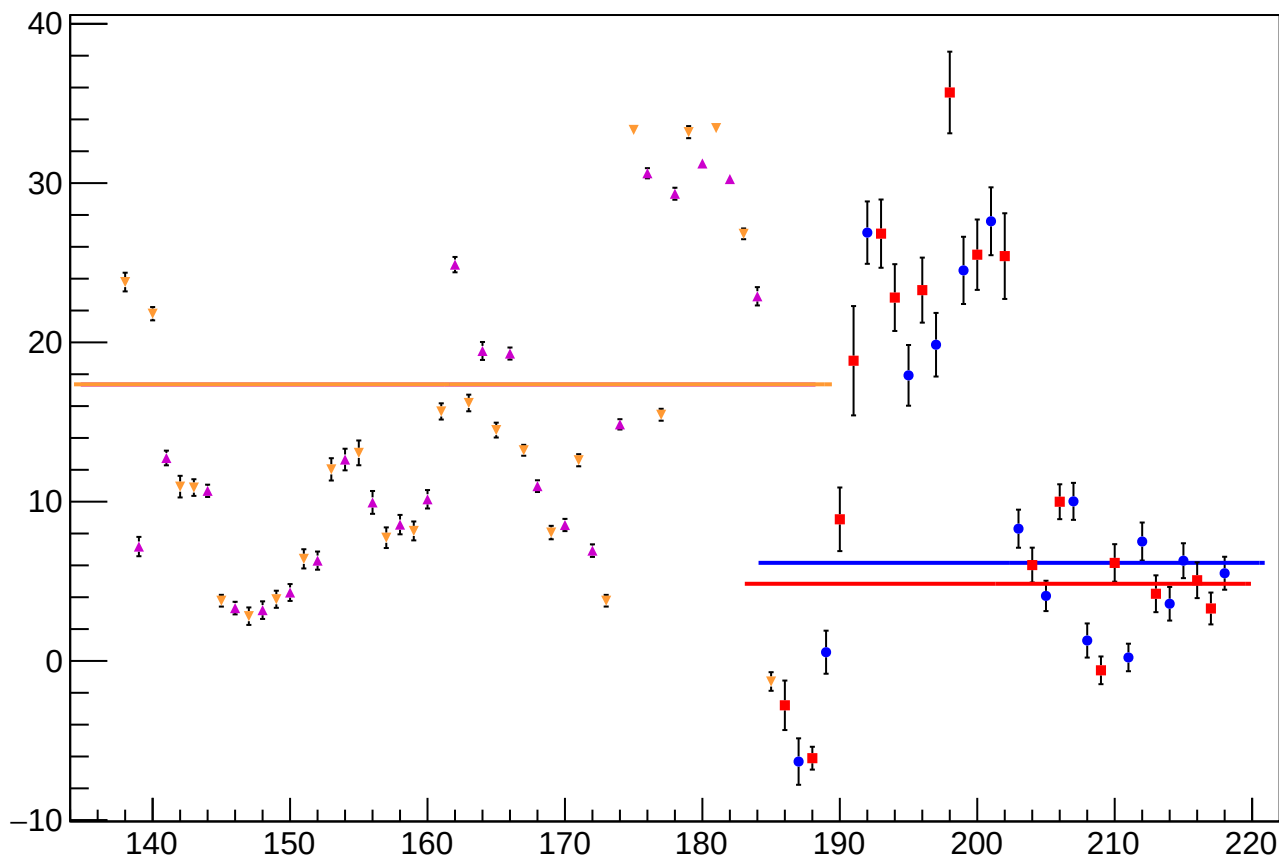
Right: 0.477 ± 0.022 $\chi^2/\text{NDF}: 2298.3/32$

In: 0.410 ± 0.004 $\chi^2/\text{NDF}: 1314.1/38$

Out: 0.413 ± 0.004 $\chi^2/\text{NDF}: 1979.2/41$

All: 0.411 ± 0.003 $\chi^2/\text{NDF}: 3293.6/80$

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.159 $\pm$ 0.311 χ^2 /NDF: 559.1/15

Left Out: 17.367 $\pm$ 0.087 χ^2 /NDF:16337.6/24

Right Out: 4.844 $\pm$ 0.314 χ^2 /NDF: 895.6/16

Left In: 17.355 $\pm$ 0.089 χ^2 /NDF:12745.1/22

Left: 17.361 $\pm$ 0.062 χ^2 /NDF: 29082.8/47

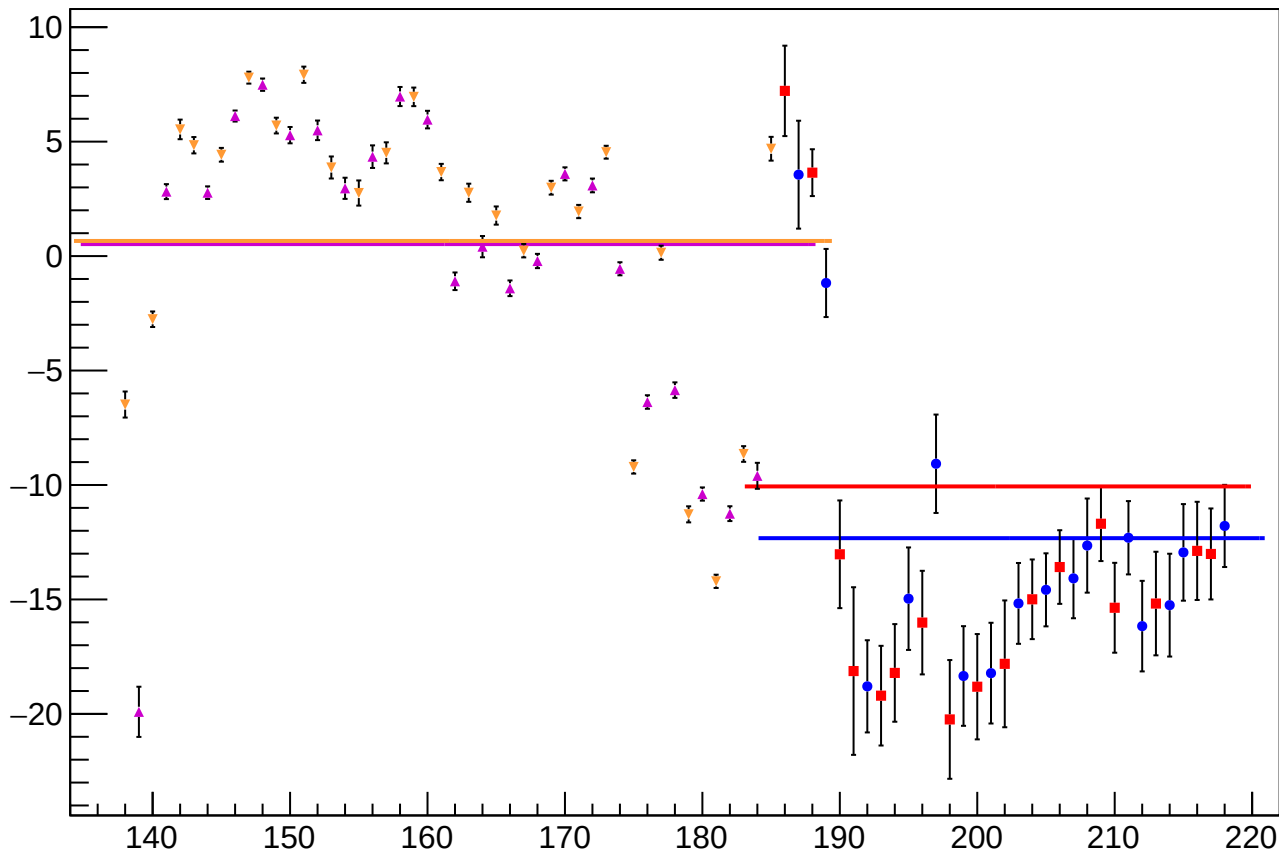
Right: 5.509 $\pm$ 0.221 χ^2 /NDF: 1463.5/32

In: 16.507 $\pm$ 0.085 χ^2 /NDF:14505.4/38

Out: 16.473 $\pm$ 0.084 χ^2 /NDF:18708.9/41

All: 16.490 $\pm$ 0.060 χ^2 /NDF: 33214.4/80

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.323 ± 0.478 χ^2/NDF : 141.7/15

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -10.063 ± 0.467 χ^2/NDF : 369.5/16

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

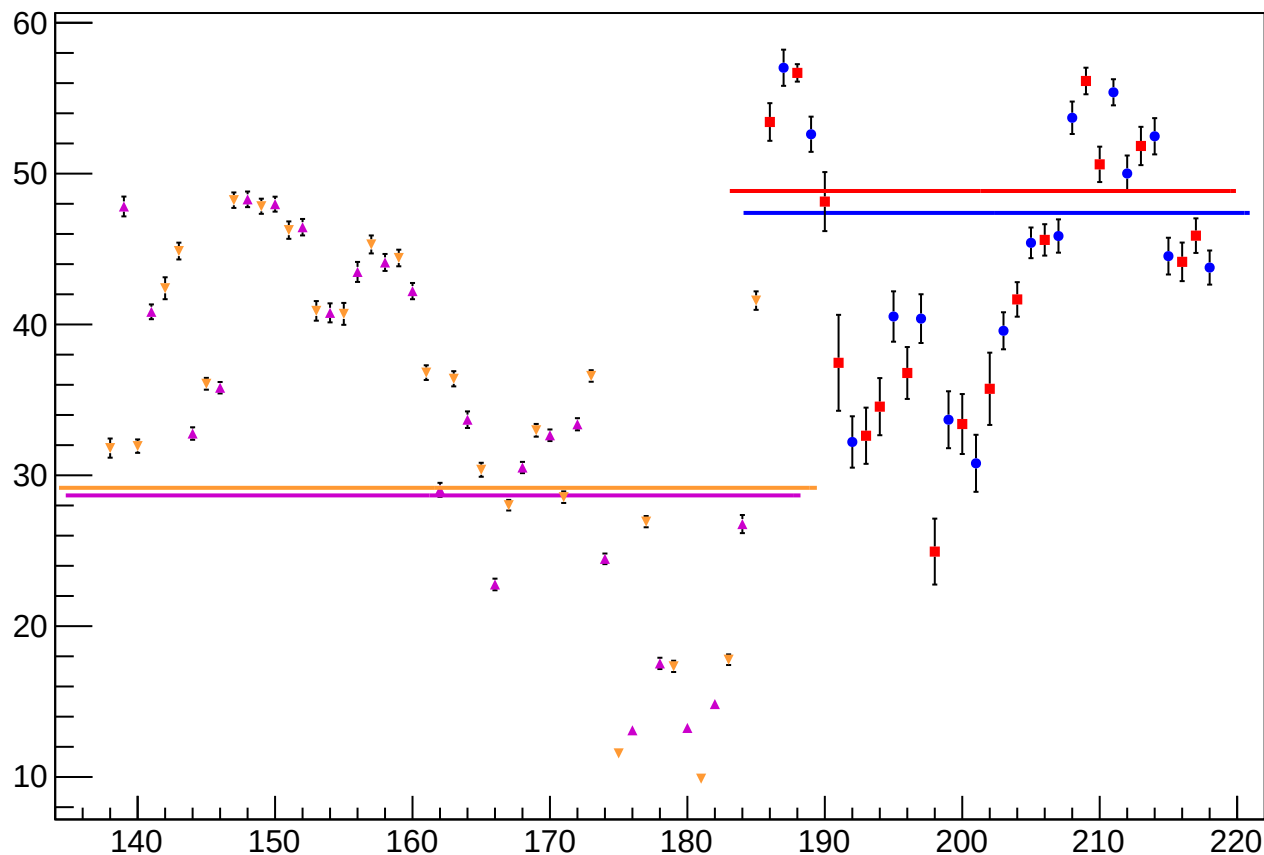
Right: -11.166 ± 0.334 χ^2/NDF : 522.6/32

In: 0.248 ± 0.070 χ^2/NDF : 7577.1/38

Out: 0.430 ± 0.069 χ^2/NDF : 9438.7/41

All: 0.341 ± 0.049 χ^2/NDF : 17019.2/80

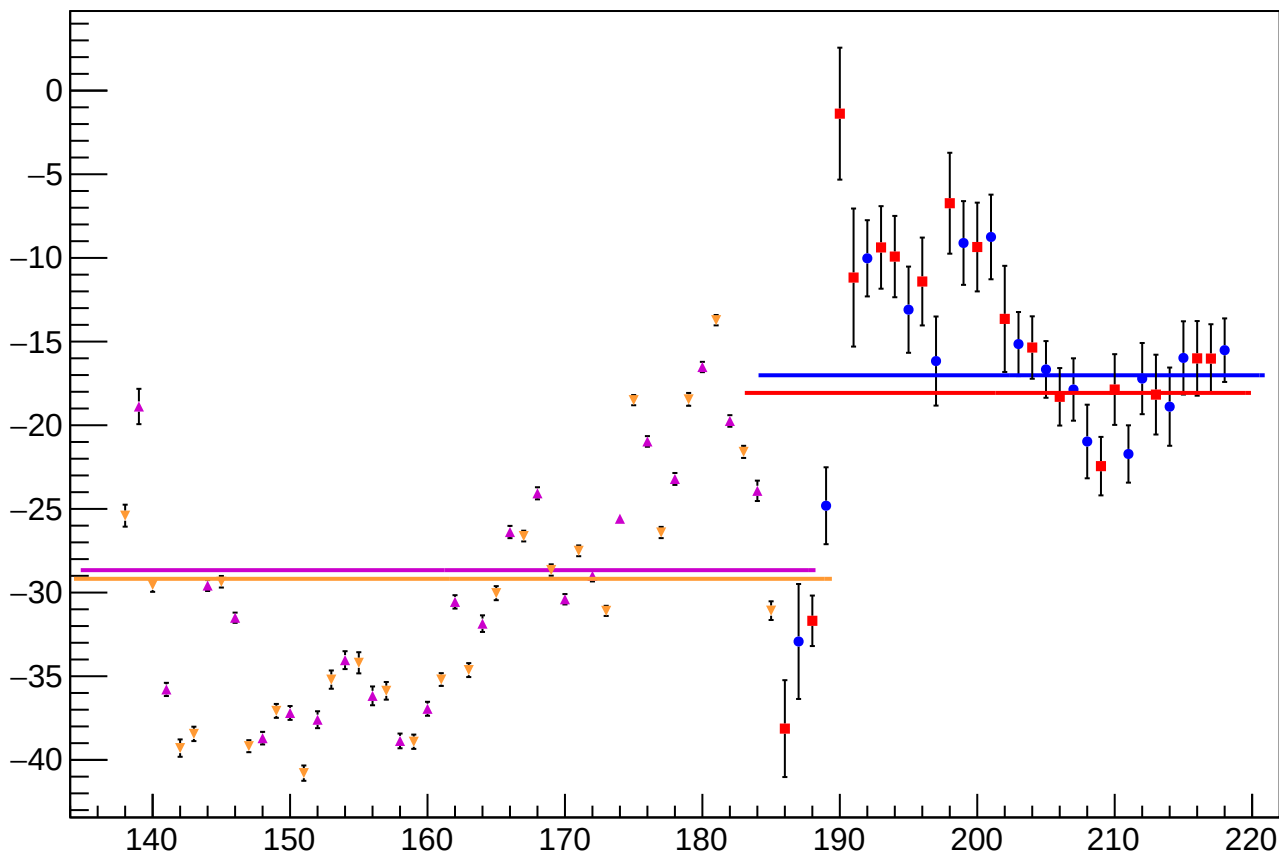
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 47.396+/-0.307 χ^2/NDF : 533.9/15
 Left Out: 29.171+/-0.088 χ^2/NDF : 18974.7/24
 Right Out: 48.849+/-0.298 χ^2/NDF : 747.2/16
 Left In: 28.667+/-0.089 χ^2/NDF : 16847.2/22

Left: 28.923+/-0.063 χ^2/NDF : 35838.1/47
 Right: 48.144+/-0.214 χ^2/NDF : 1292.6/32
 In: 30.119+/-0.086 χ^2/NDF : 20803.5/38
 Out: 30.738+/-0.084 χ^2/NDF : 23722.4/41
 All: 30.433+/-0.060 χ^2/NDF : 44552.5/80

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -17.013 ± 0.541 $\chi^2/\text{NDF}: 78.9/15$

Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$

Right Out: -18.068 ± 0.550 $\chi^2/\text{NDF}: 217.4/16$

Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$

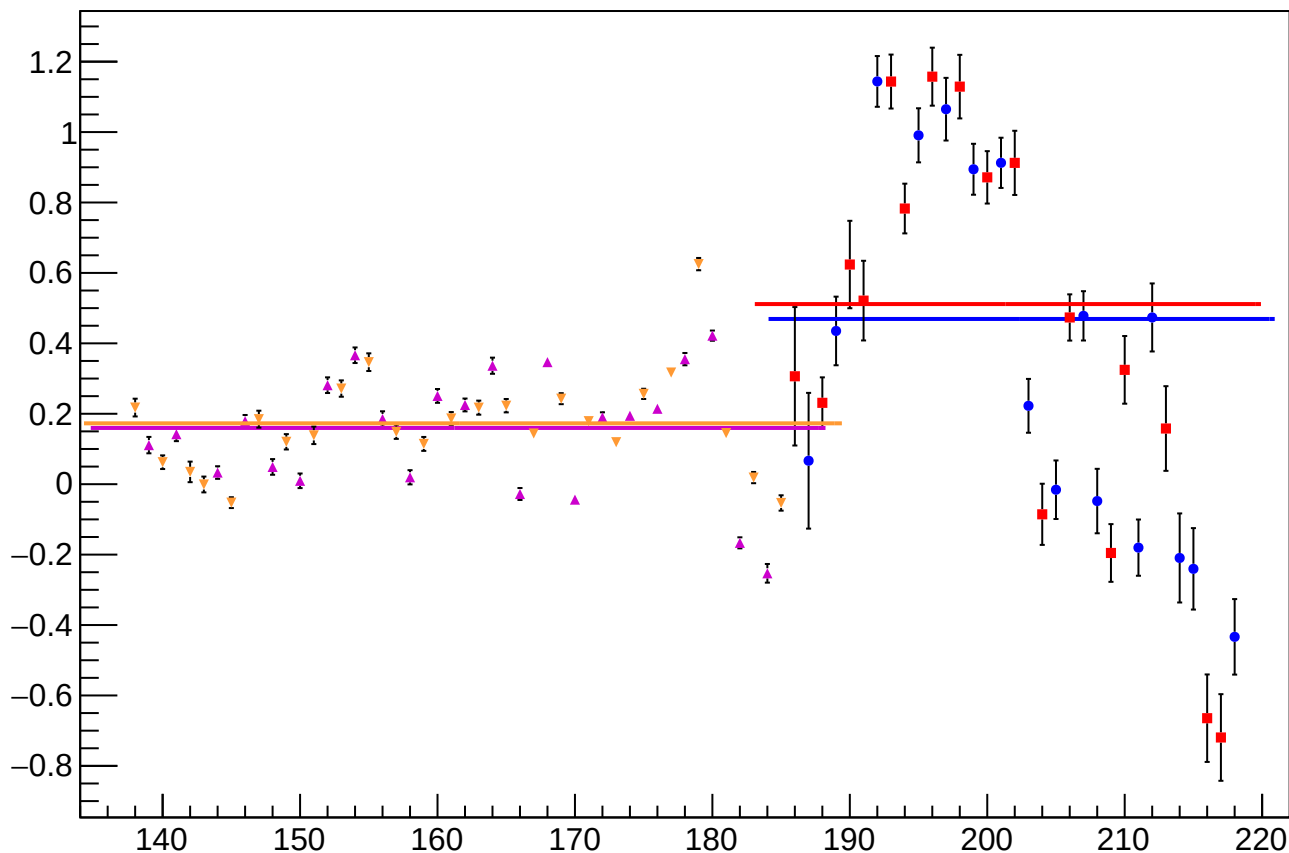
Right: -17.531 ± 0.386 $\chi^2/\text{NDF}: 298.2/32$

In: -28.412 ± 0.079 $\chi^2/\text{NDF}: 7203.2/38$

Out: -28.958 ± 0.077 $\chi^2/\text{NDF}: 9698.5/41$

All: -28.690 ± 0.055 $\chi^2/\text{NDF}: 16926.1/80$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.469 ± 0.022 χ^2/NDF : 536.1/15

Left Out: 0.173 ± 0.004 χ^2/NDF : 1478.5/24

Right Out: 0.512 ± 0.022 χ^2/NDF : 574.9/16

Left In: 0.160 ± 0.004 χ^2/NDF : 2057.9/22

Left: 0.166 ± 0.003 χ^2/NDF : 3542.9/47

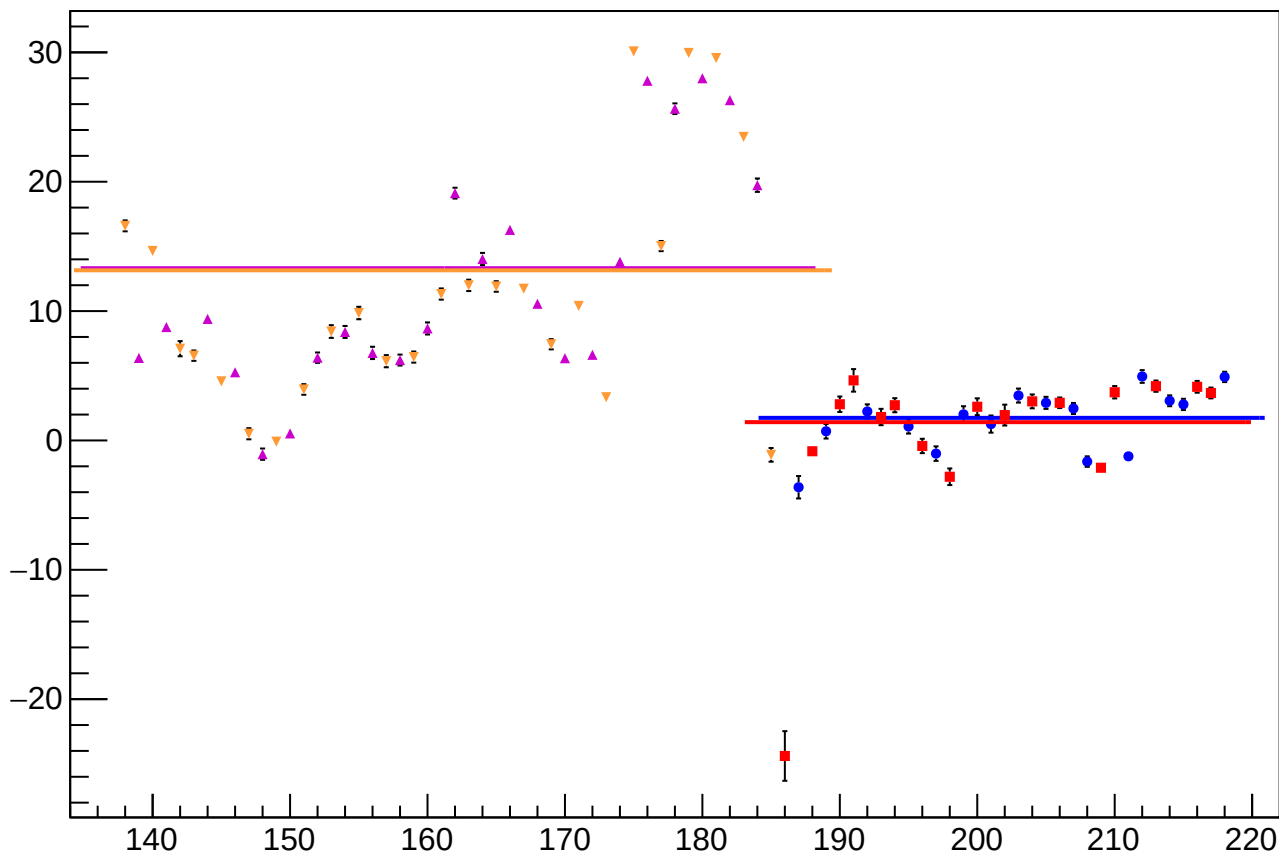
Right: 0.490 ± 0.015 χ^2/NDF : 1113.0/32

In: 0.168 ± 0.004 χ^2/NDF : 2793.0/38

Out: 0.182 ± 0.004 χ^2/NDF : 2290.6/41

All: 0.175 ± 0.003 χ^2/NDF : 5090.8/80

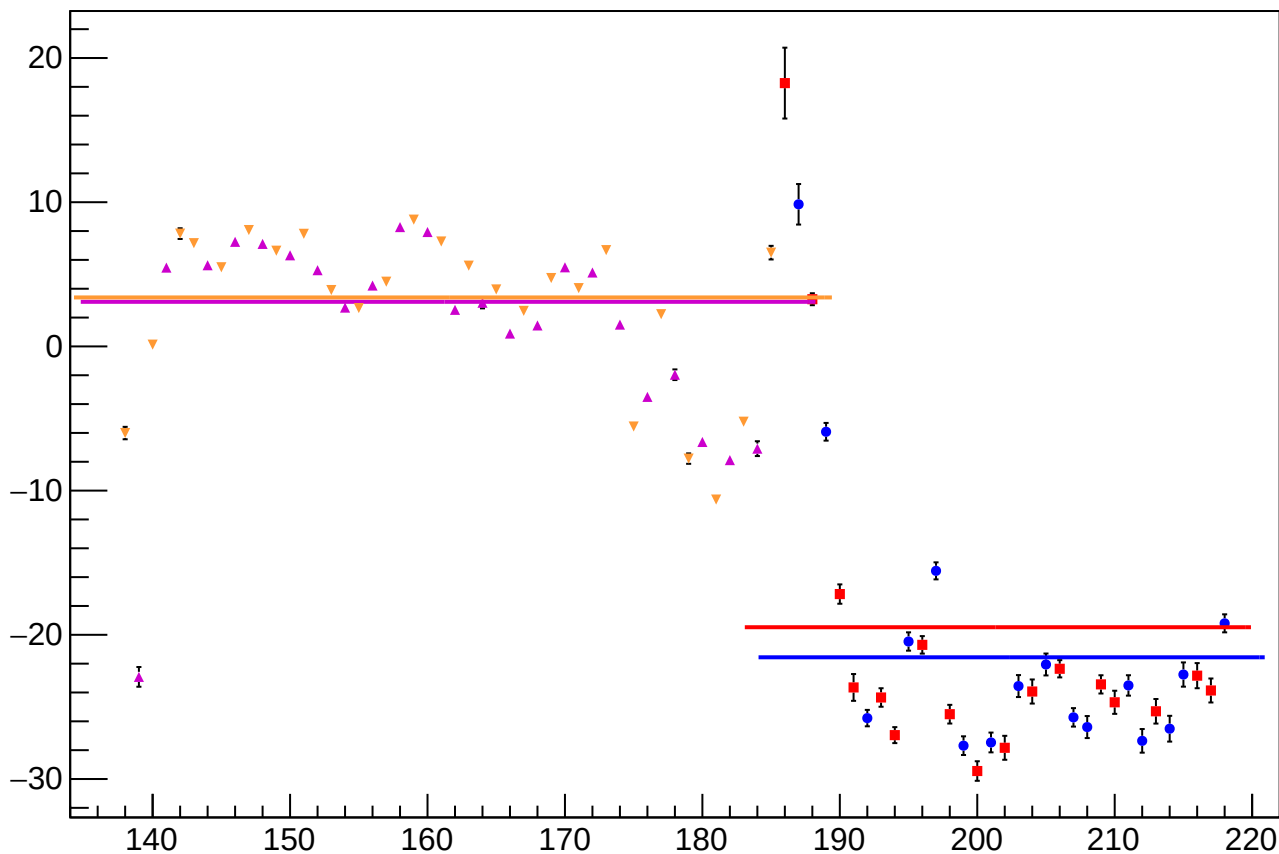
reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.747 $\pm$ 0.122 χ^2 /NDF: 338.1/15
 Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24
 Right Out: 1.415 $\pm$ 0.119 χ^2 /NDF: 588.2/16
 Left In: 13.315 $\pm$ 0.077 χ^2 /NDF:13977.7/22

Left: 13.232 $\pm$ 0.054 χ^2 /NDF: 31059.6/47
 Right: 1.576 $\pm$ 0.085 χ^2 /NDF: 930.0/32
 In: 10.030 $\pm$ 0.065 χ^2 /NDF:20708.2/38
 Out: 9.796 $\pm$ 0.064 χ^2 /NDF:24633.4/41
 All: 9.910 $\pm$ 0.046 χ^2 /NDF: 45348.1/80

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -21.560 ± 0.176 χ^2/NDF : 1667.1/15

Left Out: 3.396 ± 0.058 χ^2/NDF : 8101.5/24

Right Out: -19.474 ± 0.166 χ^2/NDF : 4151.7/16

Left In: 3.092 ± 0.061 χ^2/NDF : 7104.4/22

Left: 3.250 ± 0.042 χ^2/NDF : 15218.9/47

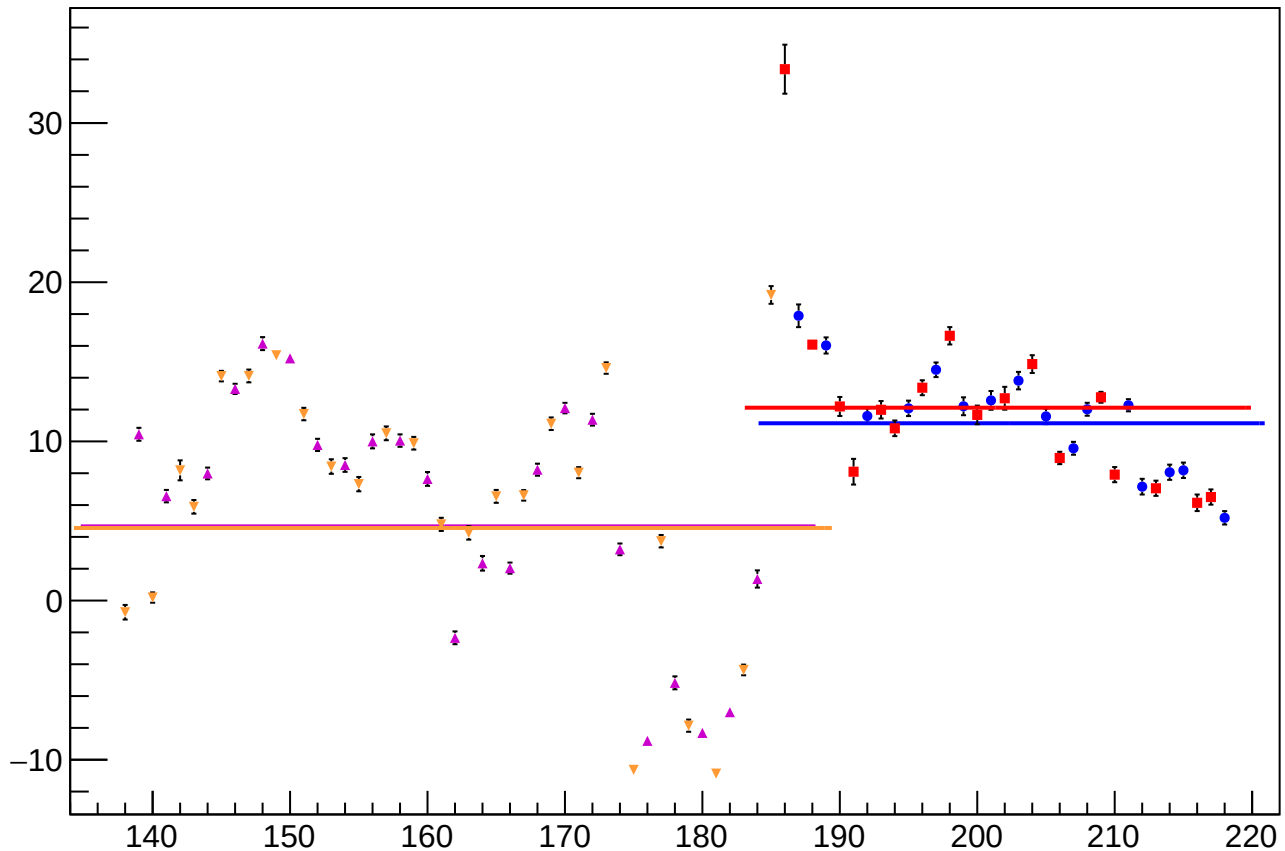
Right: -20.459 ± 0.121 χ^2/NDF : 5893.1/32

In: 0.472 ± 0.057 χ^2/NDF : 26379.7/38

Out: 0.884 ± 0.055 χ^2/NDF : 29111.2/41

All: 0.686 ± 0.040 χ^2/NDF : 55517.8/80

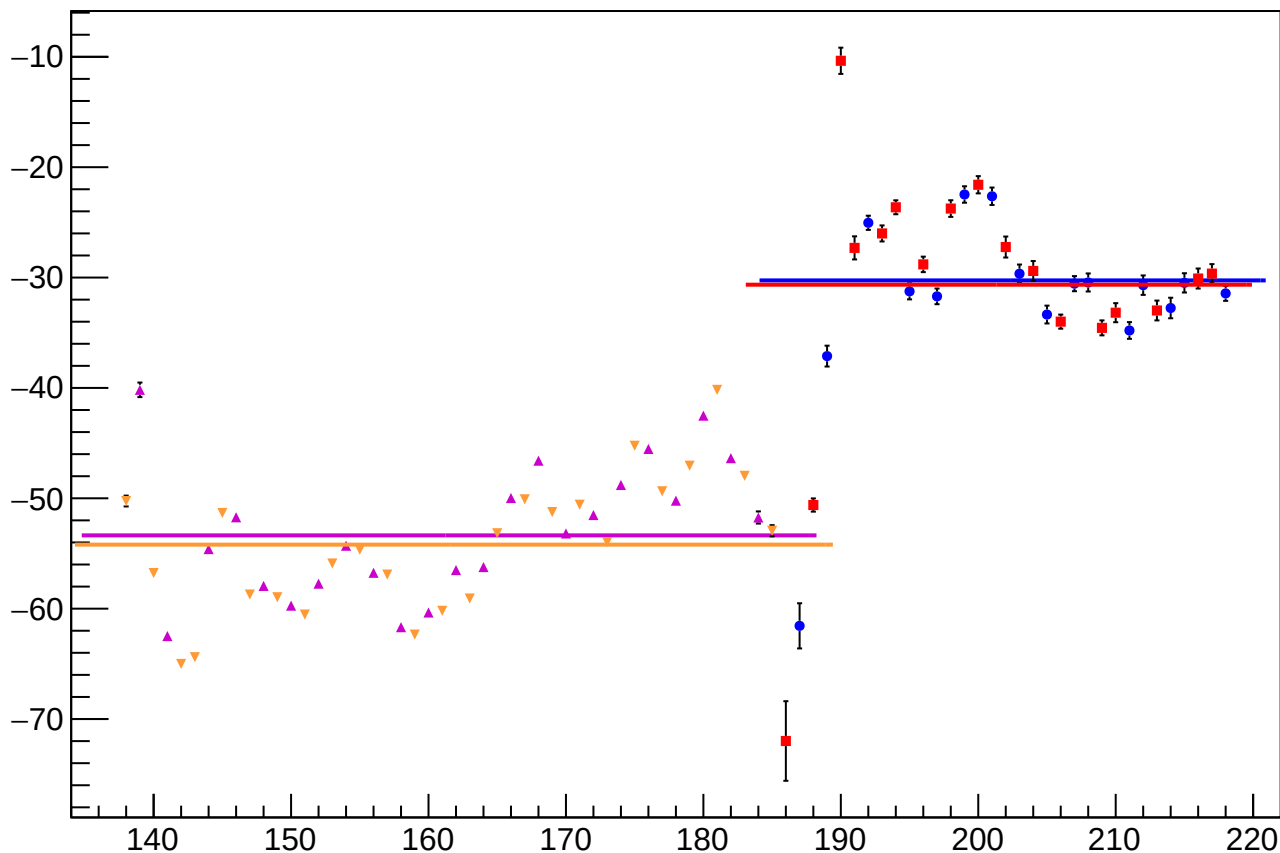
reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 11.139+/-0.119 χ^2/NDF : 645.3/15
 Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24
 Right Out: 12.117+/-0.112 χ^2/NDF : 1152.6/16
 Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47
 Right: 11.658+/-0.082 χ^2/NDF : 1833.5/32
 In: 6.556+/-0.065 χ^2/NDF :14005.9/38
 Out: 6.908+/-0.063 χ^2/NDF :17865.4/41
 All: 6.738+/-0.045 χ^2/NDF : 31886.7/80

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.258 ± 0.199 $\chi^2/\text{NDF}: 622.8/15$

Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$

Right Out: -30.647 ± 0.194 $\chi^2/\text{NDF}: 2025.7/16$

Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

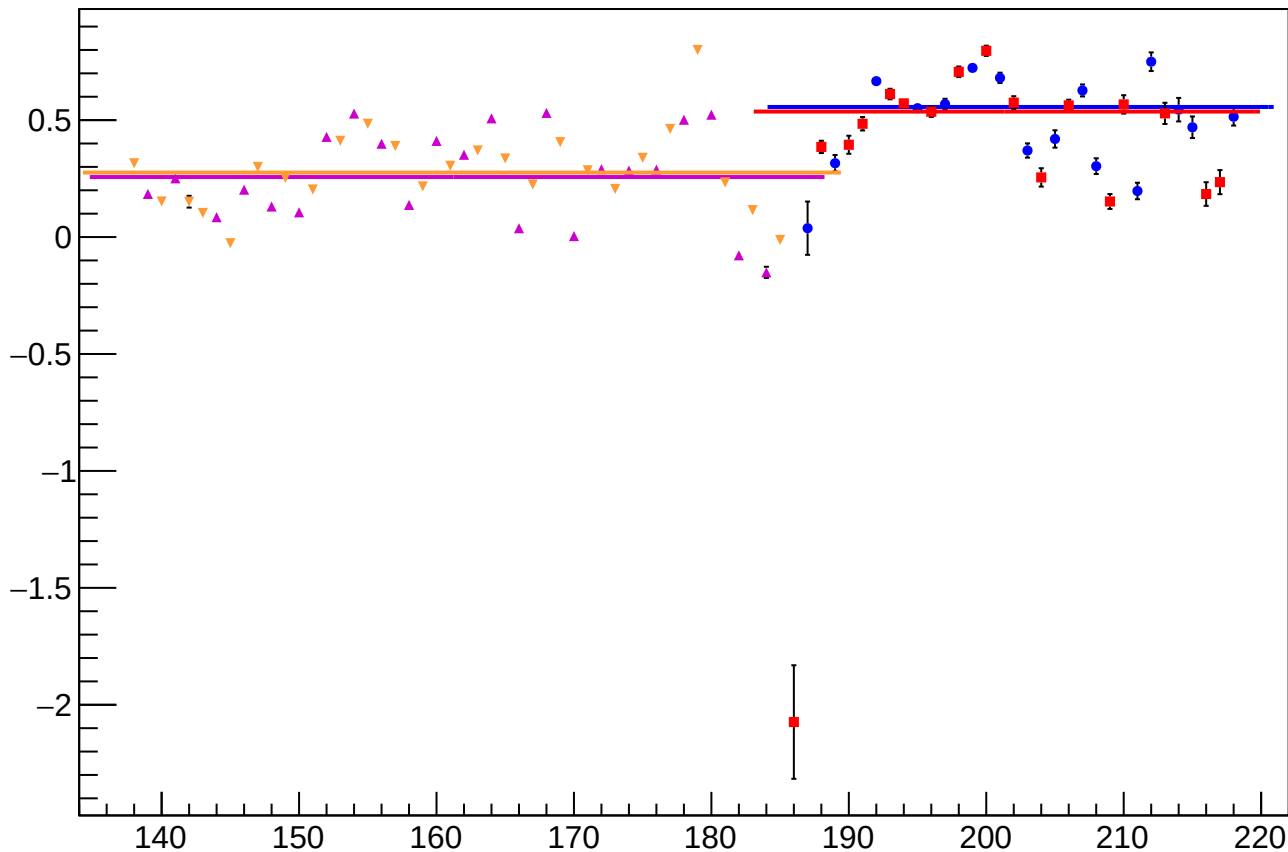
Right: -30.456 ± 0.139 $\chi^2/\text{NDF}: 2650.5/32$

In: -50.905 ± 0.065 $\chi^2/\text{NDF}: 19591.0/38$

Out: -51.741 ± 0.063 $\chi^2/\text{NDF}: 23615.9/41$

All: -51.335 ± 0.045 $\chi^2/\text{NDF}: 43292.6/80$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.556 ± 0.007 χ^2/NDF : 435.7/15

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.537 ± 0.007 χ^2/NDF : 661.1/16

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

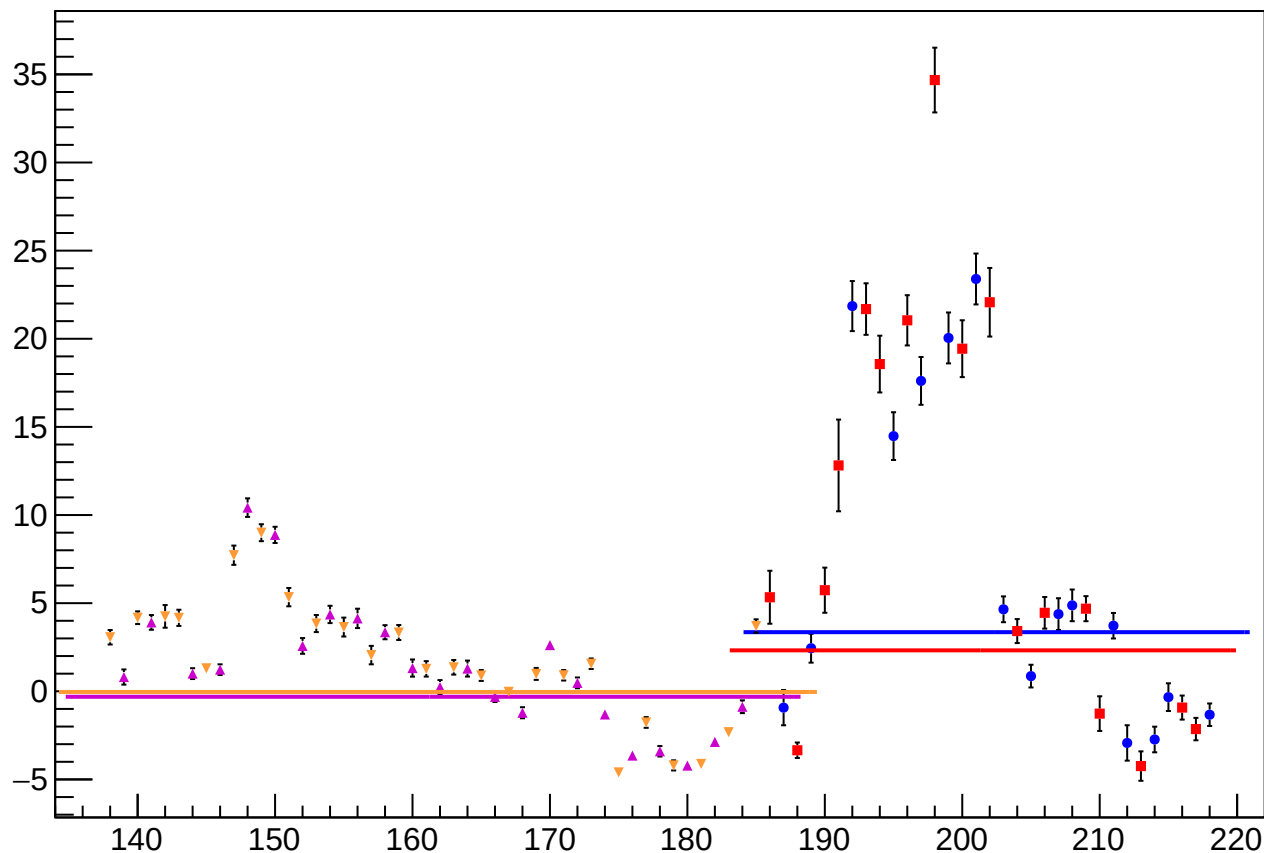
Right: 0.546 ± 0.005 χ^2/NDF : 1100.7/32

In: 0.303 ± 0.003 χ^2/NDF : 5485.3/38

Out: 0.318 ± 0.003 χ^2/NDF : 4475.8/41

All: 0.311 ± 0.002 χ^2/NDF : 9976.8/80

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

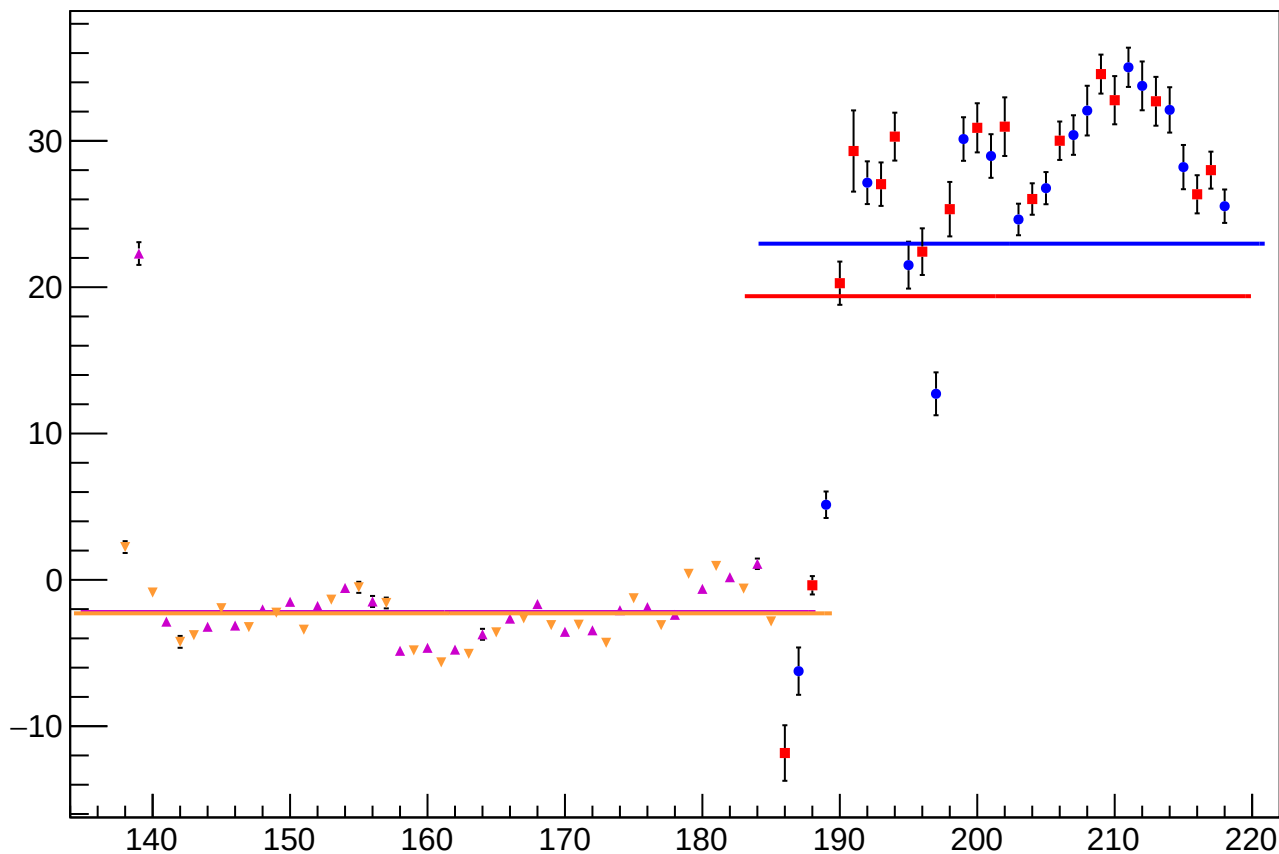


Right In: 3.355 ± 0.220 $\chi^2/\text{NDF}: 901.0/15$
 Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$
 Right Out: 2.323 ± 0.217 $\chi^2/\text{NDF}: 1336.0/16$
 Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$
 Right: 2.832 ± 0.155 $\chi^2/\text{NDF}: 2248.1/32$
 In: 0.003 ± 0.064 $\chi^2/\text{NDF}: 3405.1/38$
 Out: 0.162 ± 0.063 $\chi^2/\text{NDF}: 4081.5/41$

All: 0.084 ± 0.045 $\chi^2/\text{NDF}: 7489.7/80$

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 22.974 $\pm$ 0.334 χ^2 /NDF: 1059.0/15

Left Out: -2.288 $\pm$ 0.054 χ^2 /NDF:1137.7/24

Right Out: 19.385 $\pm$ 0.325 χ^2 /NDF: 1877.4/16

Left In: -2.198 $\pm$ 0.055 χ^2 /NDF:1673.9/22

Left: -2.244 $\pm$ 0.039 χ^2 /NDF: 2813.0/47

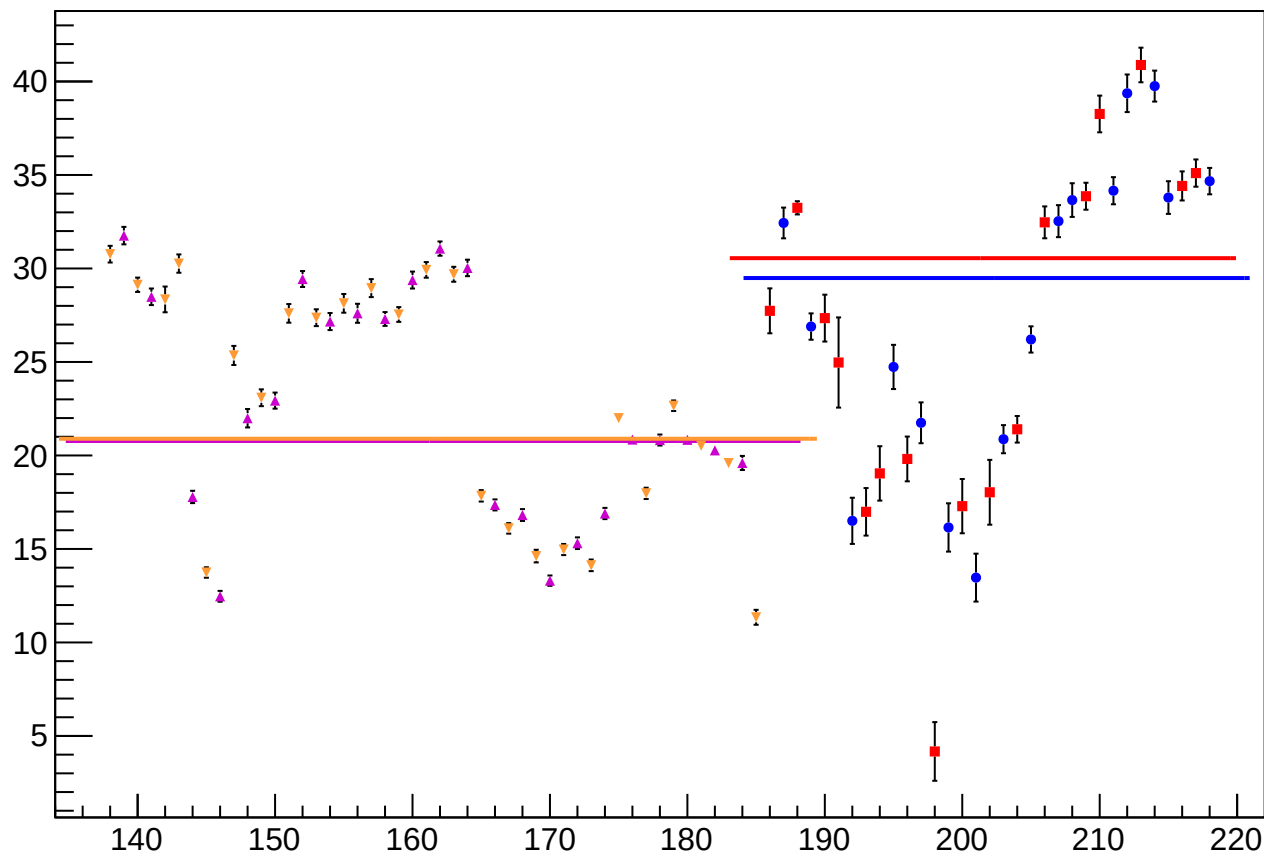
Right: 21.129 $\pm$ 0.233 χ^2 /NDF: 2995.6/32

In: -1.533 $\pm$ 0.054 χ^2 /NDF:8249.8/38

Out: -1.703 $\pm$ 0.053 χ^2 /NDF:7341.7/41

All: -1.619 $\pm$ 0.038 χ^2 /NDF: 15596.4/80

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.488 $\pm$ 0.218 χ^2 /NDF: 1023.6/15

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF: 6655.4/24

Right Out: 30.551 $\pm$ 0.206 χ^2 /NDF: 1192.3/16

Left In: 20.774 $\pm$ 0.068 χ^2 /NDF: 5927.9/22

Left: 20.835 $\pm$ 0.047 χ^2 /NDF: 12584.8/47

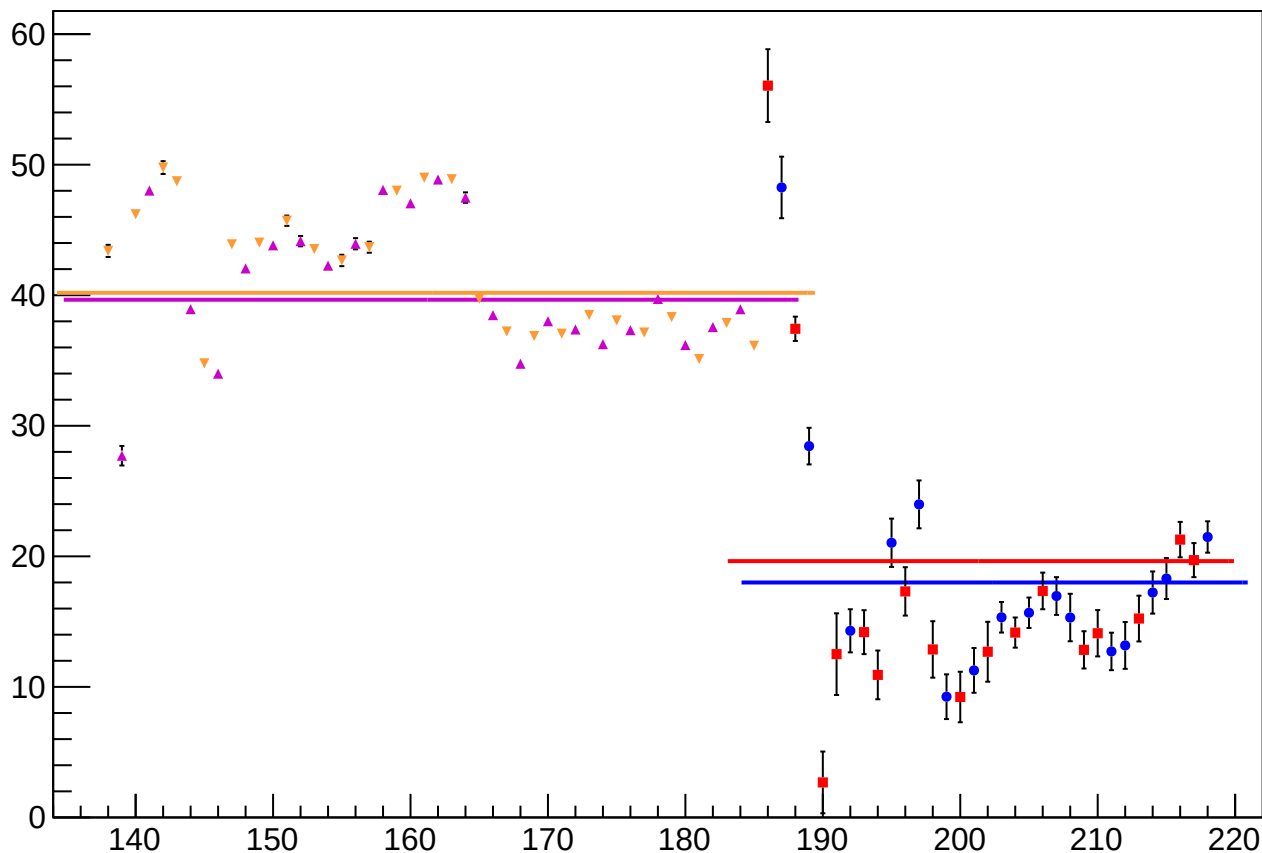
Right: 30.050 $\pm$ 0.150 χ^2 /NDF: 2228.4/32

In: 21.535 $\pm$ 0.065 χ^2 /NDF: 8404.9/38

Out: 21.809 $\pm$ 0.063 χ^2 /NDF: 9832.6/41

All: 21.674 $\pm$ 0.045 χ^2 /NDF: 18246.6/80

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 17.998 $\pm$ 0.382 χ^2 /NDF: 321.4/15

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24

Right Out: 19.634 $\pm$ 0.387 χ^2 /NDF: 740.2/16

Left In: 39.655 $\pm$ 0.061 χ^2 /NDF: 5298.6/22

Left: 39.925 $\pm$ 0.043 χ^2 /NDF: 11269.2/47

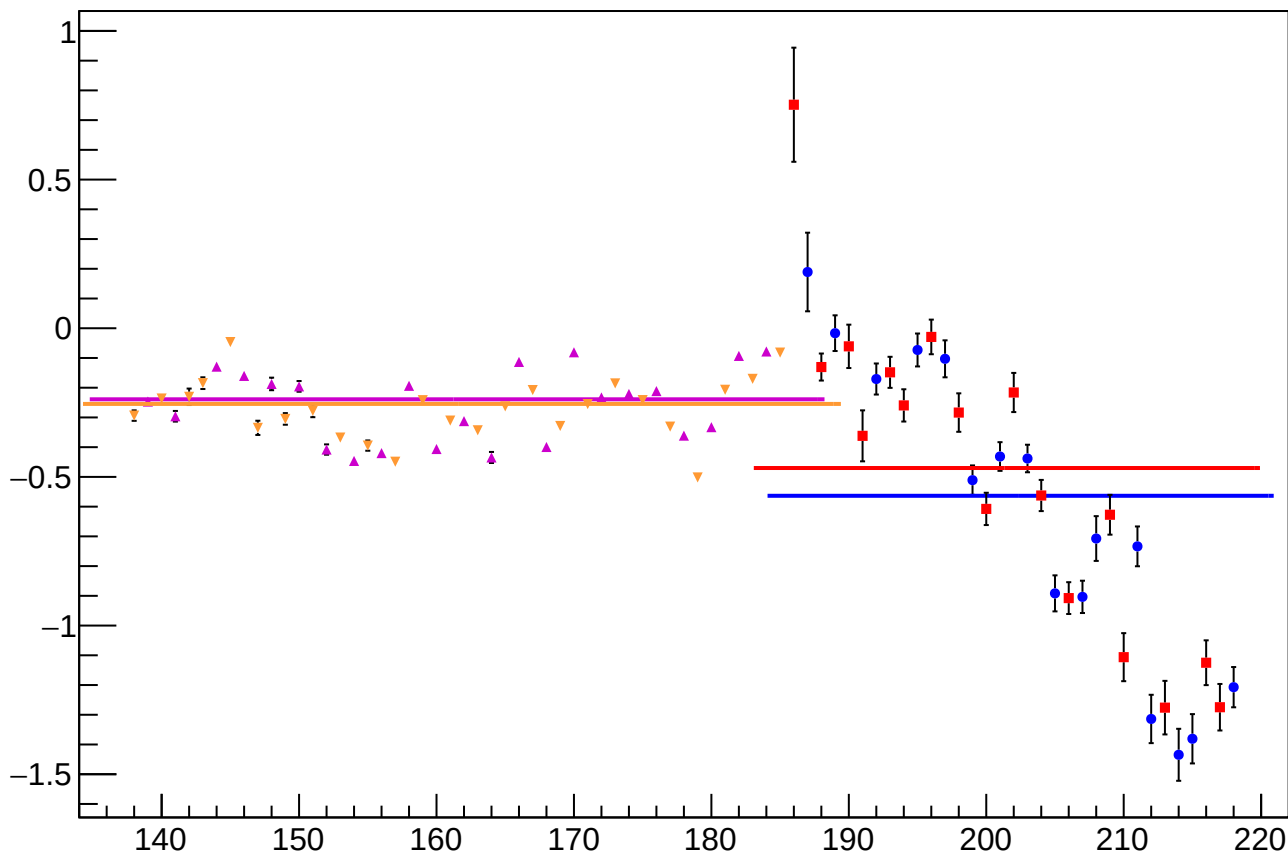
Right: 18.806 $\pm$ 0.272 χ^2 /NDF: 1070.6/32

In: 39.109 $\pm$ 0.061 χ^2 /NDF: 8753.9/38

Out: 39.696 $\pm$ 0.060 χ^2 /NDF: 9431.5/41

All: 39.407 $\pm$ 0.043 χ^2 /NDF: 18233.1/80

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.564 ± 0.015 χ^2/NDF : 771.8/15

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.470 ± 0.015 χ^2/NDF : 668.3/16

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

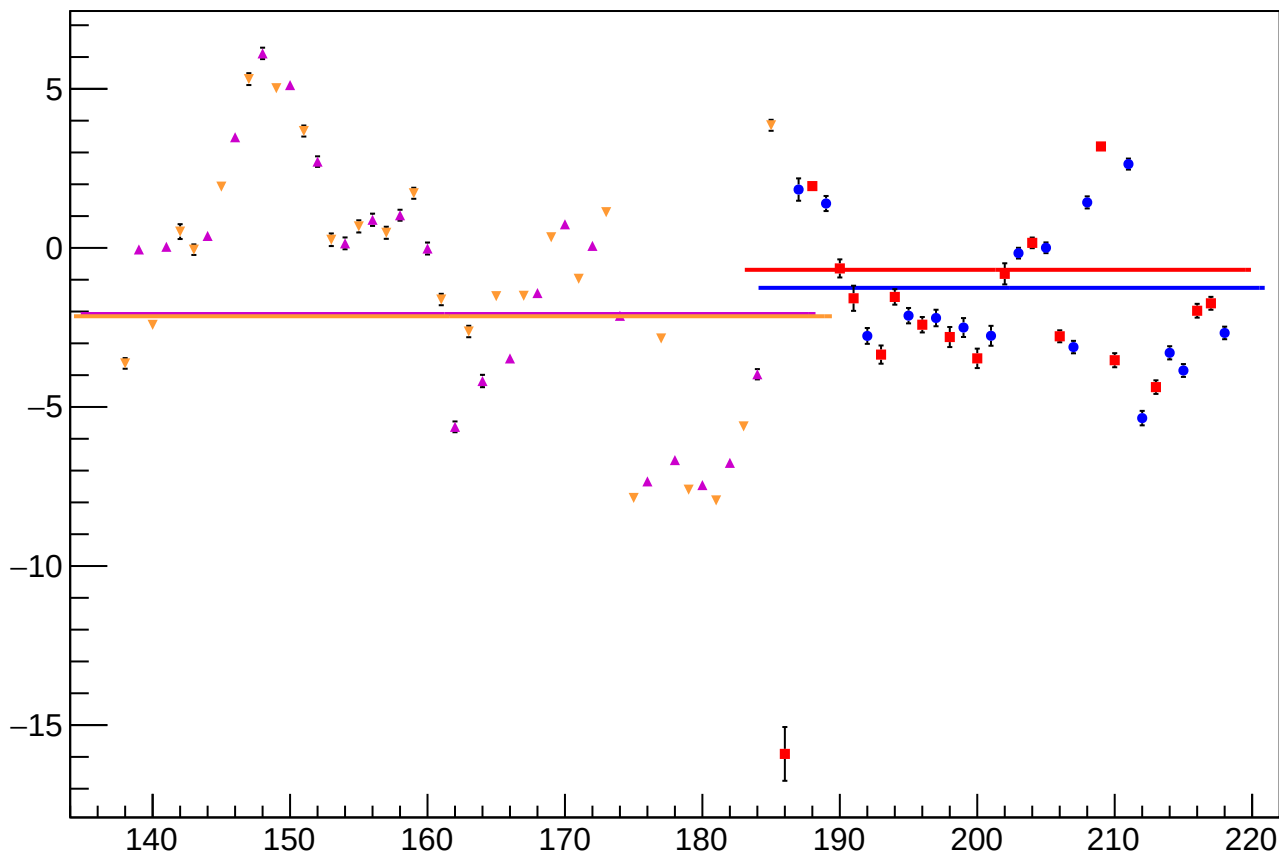
Right: -0.517 ± 0.011 χ^2/NDF : 1458.5/32

In: -0.249 ± 0.003 χ^2/NDF : 2955.1/38

Out: -0.261 ± 0.003 χ^2/NDF : 2277.8/41

All: -0.255 ± 0.002 χ^2/NDF : 5242.3/80

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

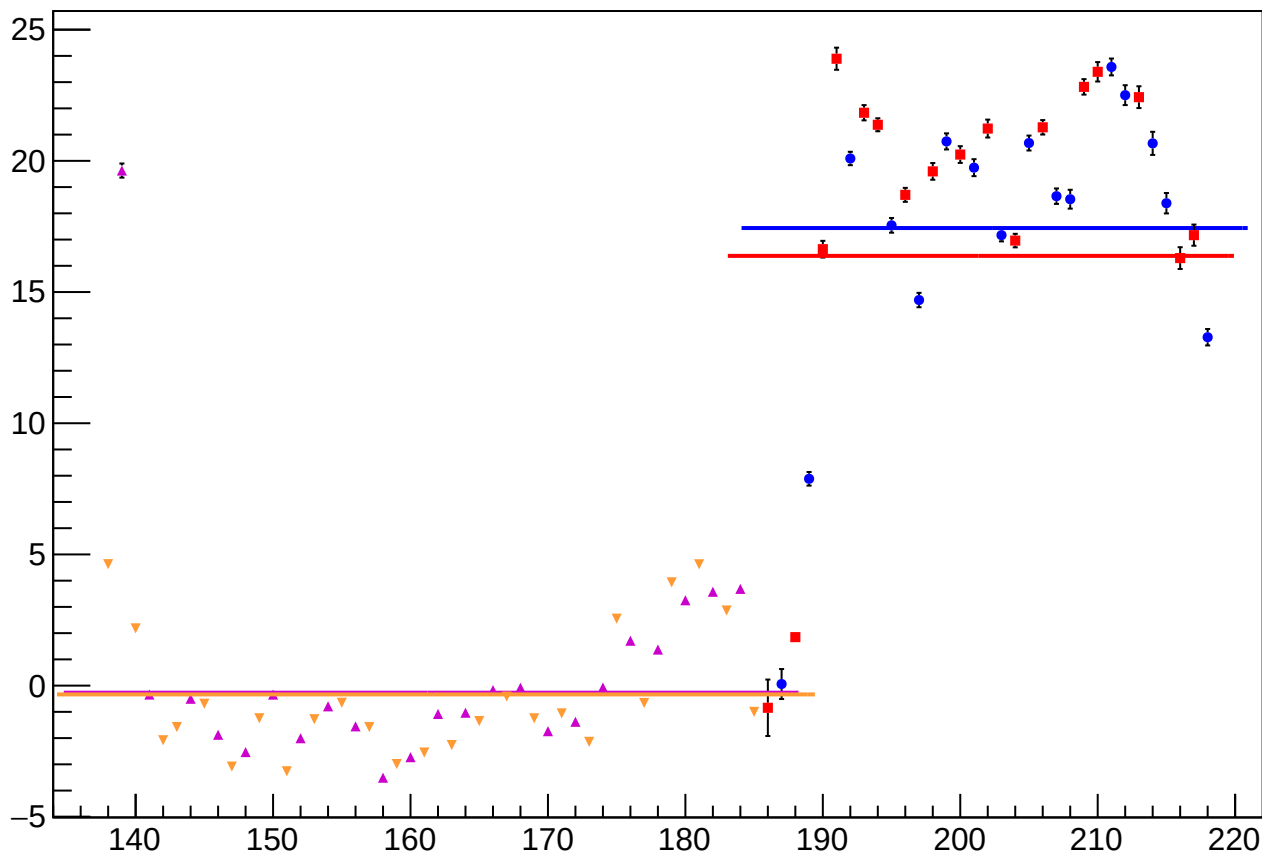


Right In: -1.256 ± 0.054 χ^2/NDF : 1833.9/15
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.689 ± 0.052 χ^2/NDF : 2460.0/16
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.962 ± 0.037 χ^2/NDF : 4351.3/32
 In: -1.922 ± 0.023 χ^2/NDF : 25268.7/38
 Out: -1.863 ± 0.023 χ^2/NDF : 27632.2/41

All: -1.892 ± 0.016 χ^2/NDF : 52904.2/80

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.440 $\pm$ 0.077 χ^2 /NDF: 3598.2/15

Left Out: -0.335 $\pm$ 0.021 χ^2 /NDF:12596.1/24

Right Out: 16.379 $\pm$ 0.073 χ^2 /NDF: 11338.0/16

Left In: -0.269 $\pm$ 0.021 χ^2 /NDF:13323.1/22

Left: -0.303 $\pm$ 0.015 χ^2 /NDF: 25924.2/47

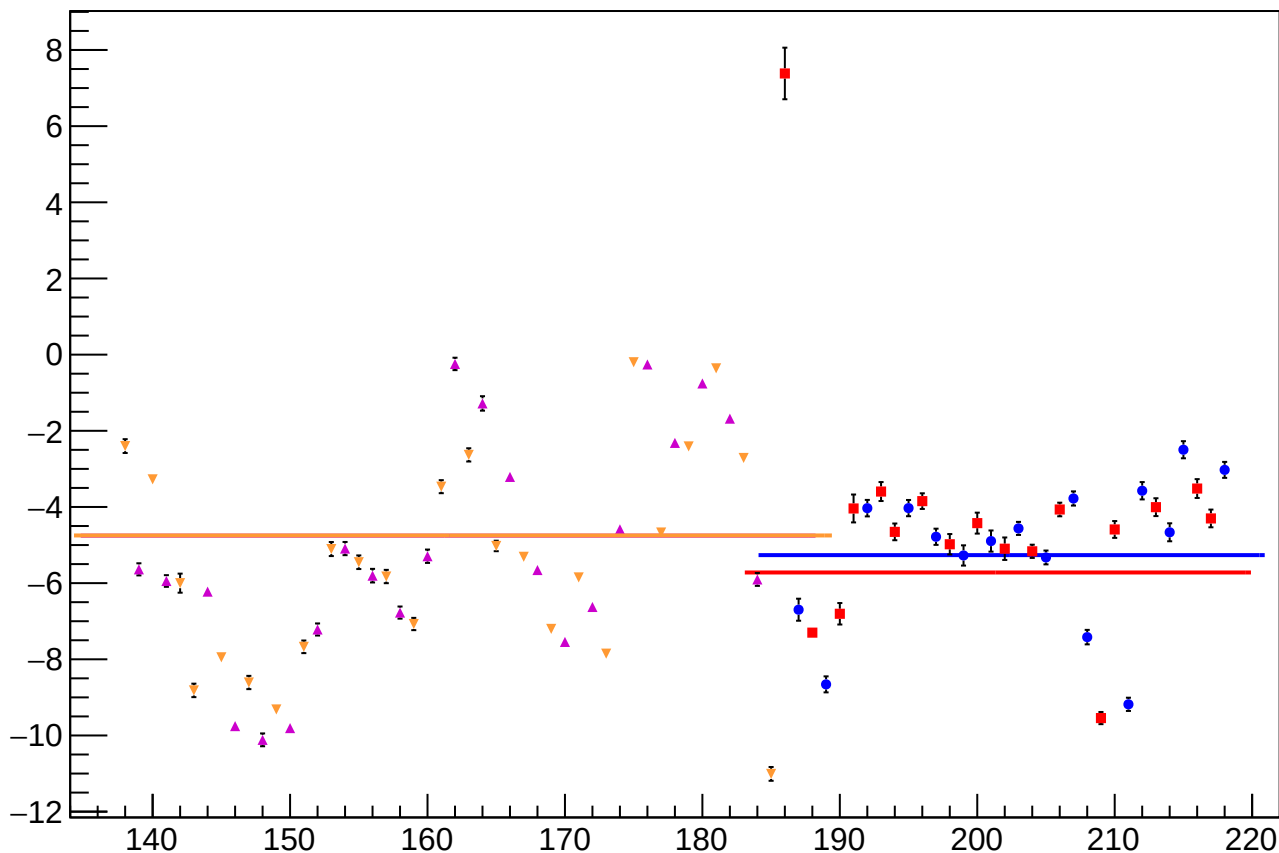
Right: 16.875 $\pm$ 0.053 χ^2 /NDF: 15036.3/32

In: 0.941 $\pm$ 0.020 χ^2 /NDF:65767.5/38

Out: 0.910 $\pm$ 0.020 χ^2 /NDF:73048.3/41

All: 0.925 $\pm$ 0.014 χ^2 /NDF: 138817.0/80

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

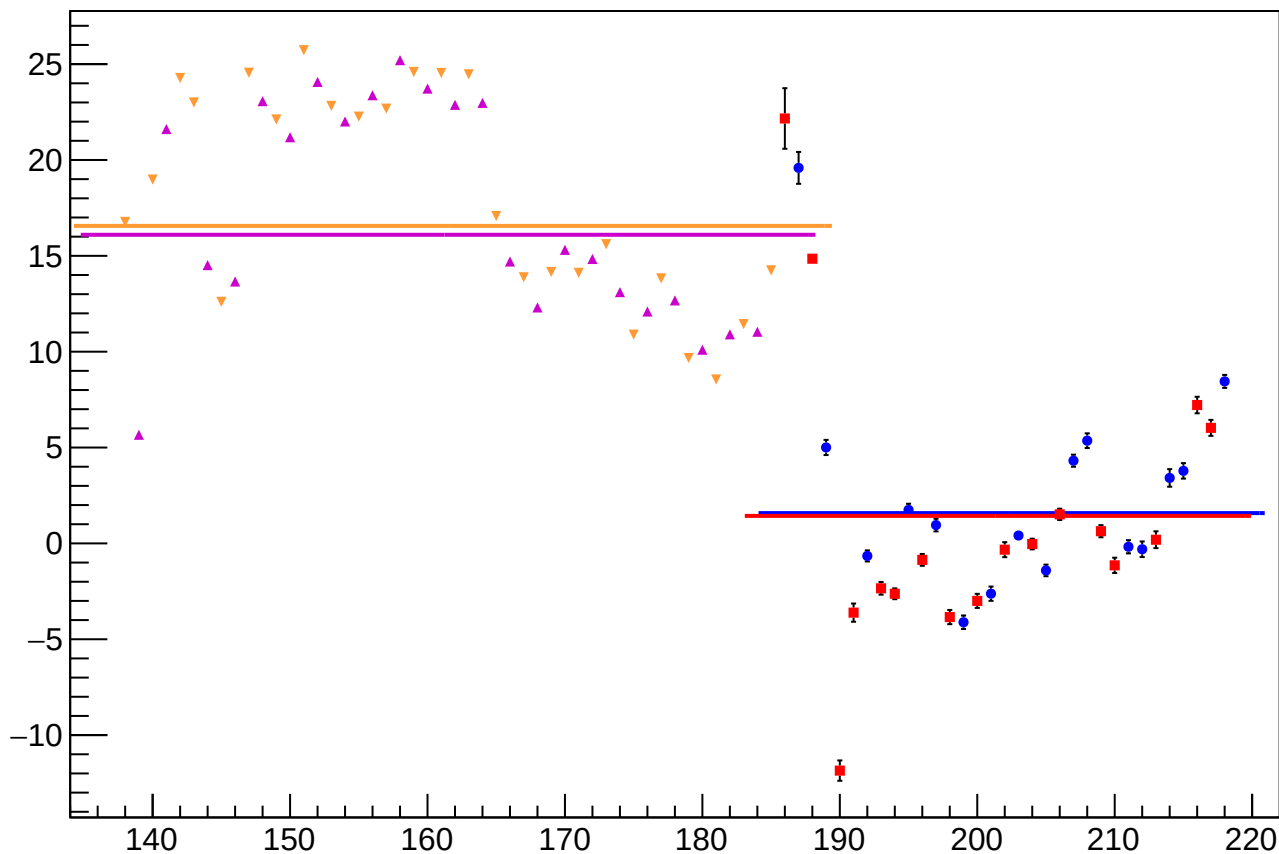


Right In: -5.264 ± 0.053 $\chi^2/\text{NDF}: 1400.8/15$
 Left Out: -4.748 ± 0.026 $\chi^2/\text{NDF}: 13289.8/24$
 Right Out: -5.720 ± 0.049 $\chi^2/\text{NDF}: 1805.0/16$
 Left In: -4.753 ± 0.026 $\chi^2/\text{NDF}: 14119.2/22$

Left: -4.751 ± 0.018 $\chi^2/\text{NDF}: 27409.0/47$
 Right: -5.511 ± 0.036 $\chi^2/\text{NDF}: 3246.3/32$
 In: -4.854 ± 0.023 $\chi^2/\text{NDF}: 15595.6/38$
 Out: -4.963 ± 0.023 $\chi^2/\text{NDF}: 15407.7/41$

All: -4.910 ± 0.016 $\chi^2/\text{NDF}: 31014.3/80$

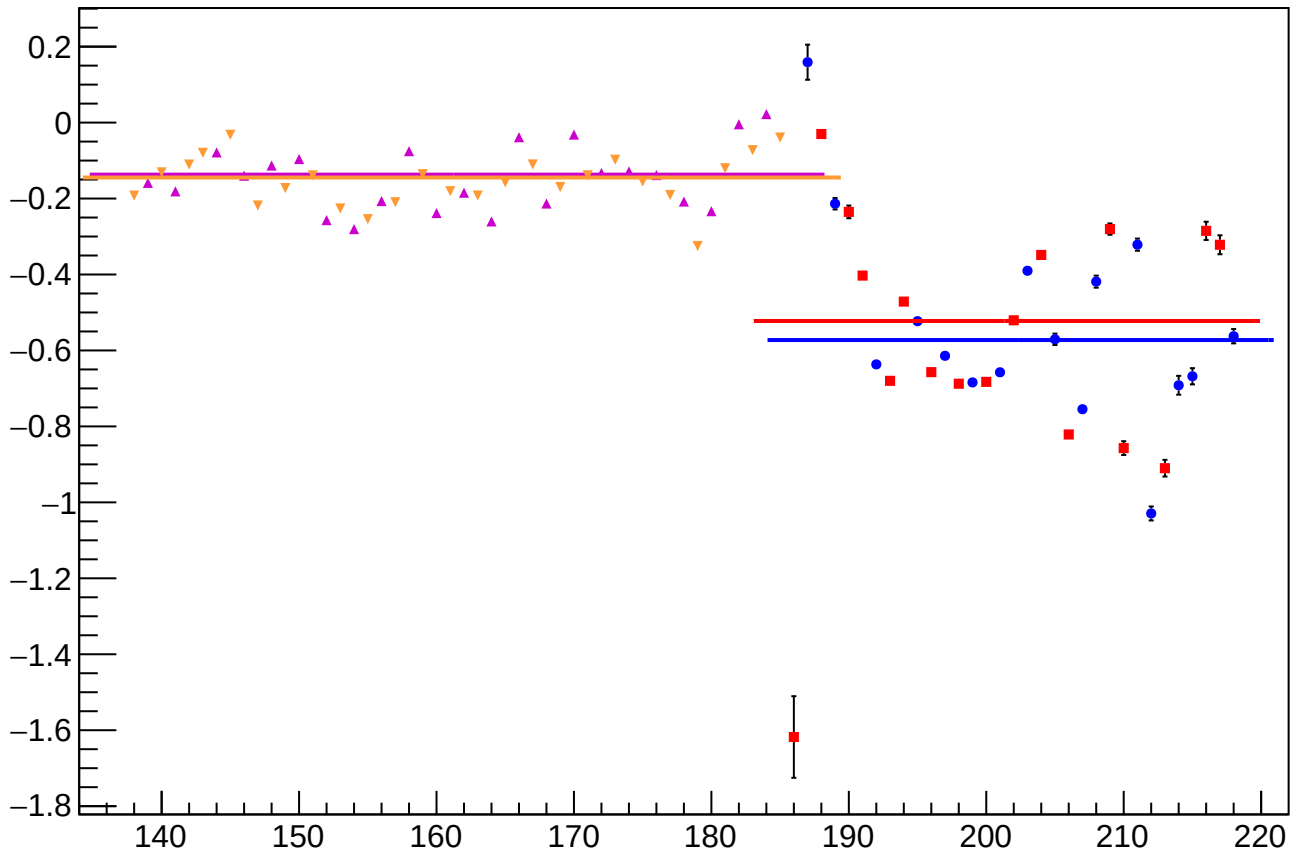
reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.580 ± 0.088 $\chi^2/\text{NDF}: 1791.8/15$
 Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$
 Right Out: 1.435 ± 0.085 $\chi^2/\text{NDF}: 5347.5/16$
 Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$
 Right: 1.506 ± 0.061 $\chi^2/\text{NDF}: 7140.7/32$
 In: 15.117 ± 0.023 $\chi^2/\text{NDF}: 69794.9/38$
 Out: 15.526 ± 0.022 $\chi^2/\text{NDF}: 88465.5/41$
 All: 15.326 ± 0.016 $\chi^2/\text{NDF}: 158425.1/80$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.573 ± 0.003 χ^2/NDF : 2683.2/15

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.522 ± 0.003 χ^2/NDF : 5652.6/16

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

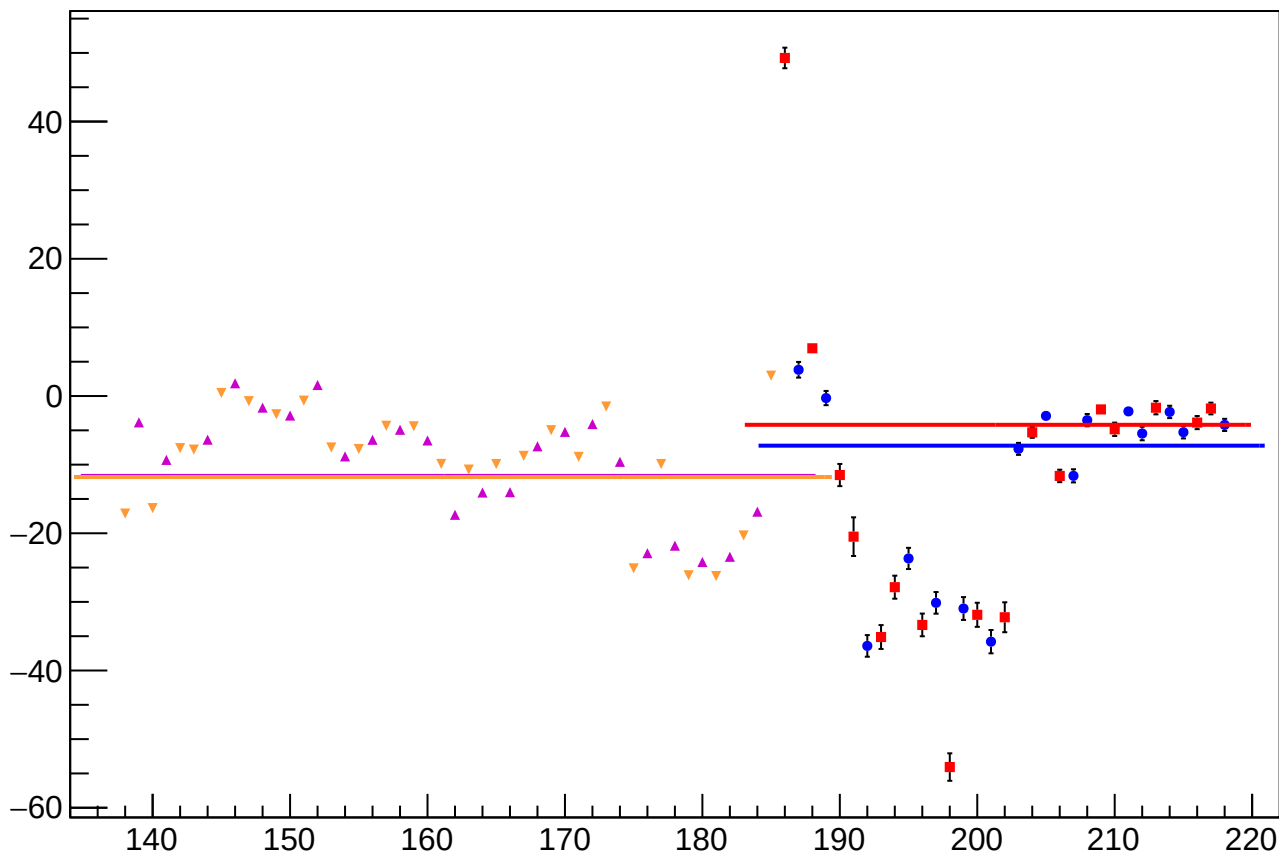
Right: -0.546 ± 0.002 χ^2/NDF : 8462.8/32

In: -0.180 ± 0.001 χ^2/NDF : 24354.7/38

Out: -0.185 ± 0.001 χ^2/NDF : 23101.2/41

All: -0.182 ± 0.001 χ^2/NDF : 47467.7/80

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.233 ± 0.251 χ^2/NDF : 1464.0/15

Left Out: -11.801 ± 0.070 χ^2/NDF : 17308.2/24

Right Out: -4.193 ± 0.254 χ^2/NDF : 3710.4/16

Left In: -11.642 ± 0.072 χ^2/NDF : 14121.2/22

Left: -11.723 ± 0.050 χ^2/NDF : 31432.0/47

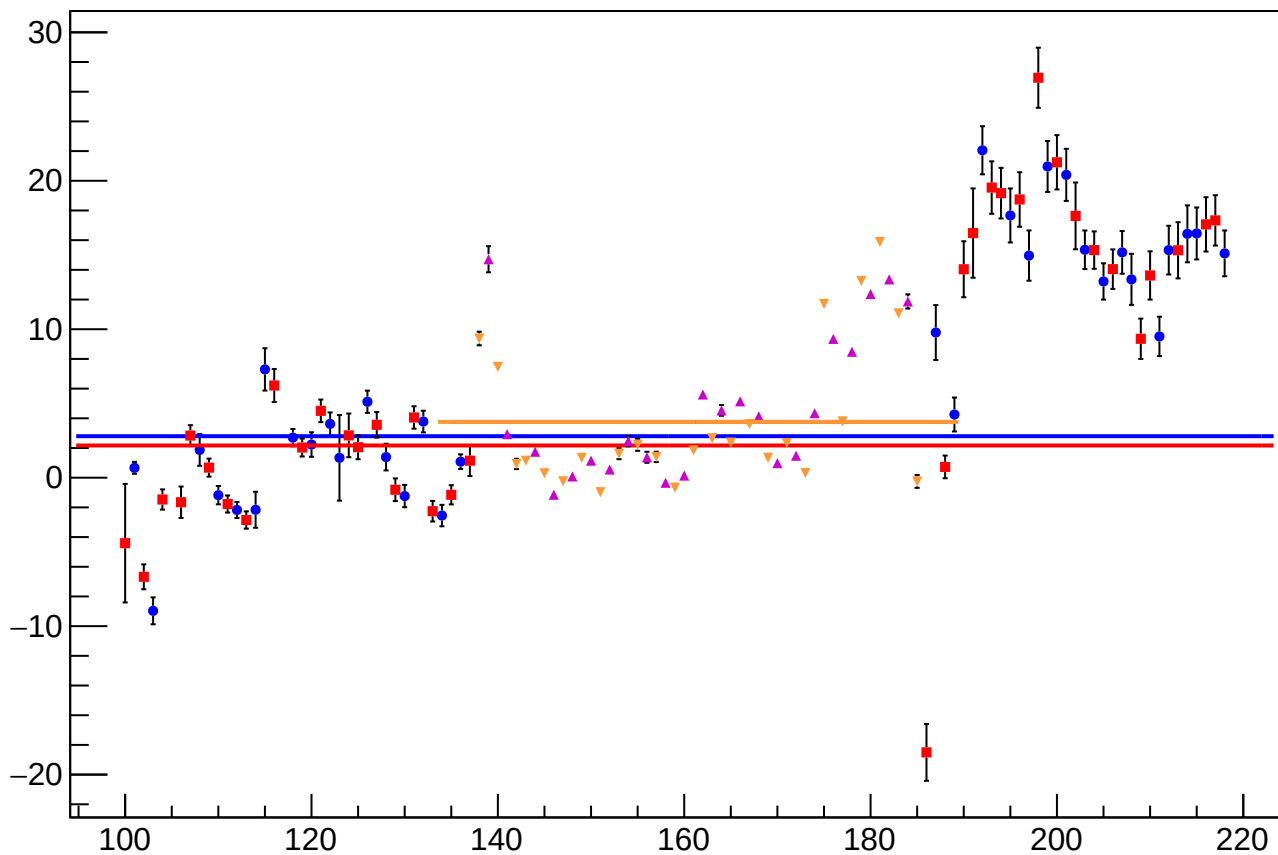
Right: -5.729 ± 0.178 χ^2/NDF : 5247.1/32

In: -11.310 ± 0.069 χ^2/NDF : 15870.7/38

Out: -11.258 ± 0.068 χ^2/NDF : 21854.7/41

All: -11.284 ± 0.048 χ^2/NDF : 37725.6/80

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.795 $\pm$ 0.156 χ^2 /NDF: 1485.9/32

Left Out: 3.757 $\pm$ 0.056 χ^2 /NDF: 7450.7/24

Right Out: 2.170 $\pm$ 0.158 χ^2 /NDF: 1625.1/35

Left In: 3.757 $\pm$ 0.057 χ^2 /NDF: 5629.4/22

Left: 3.757 $\pm$ 0.040 χ^2 /NDF: 13080.0/47

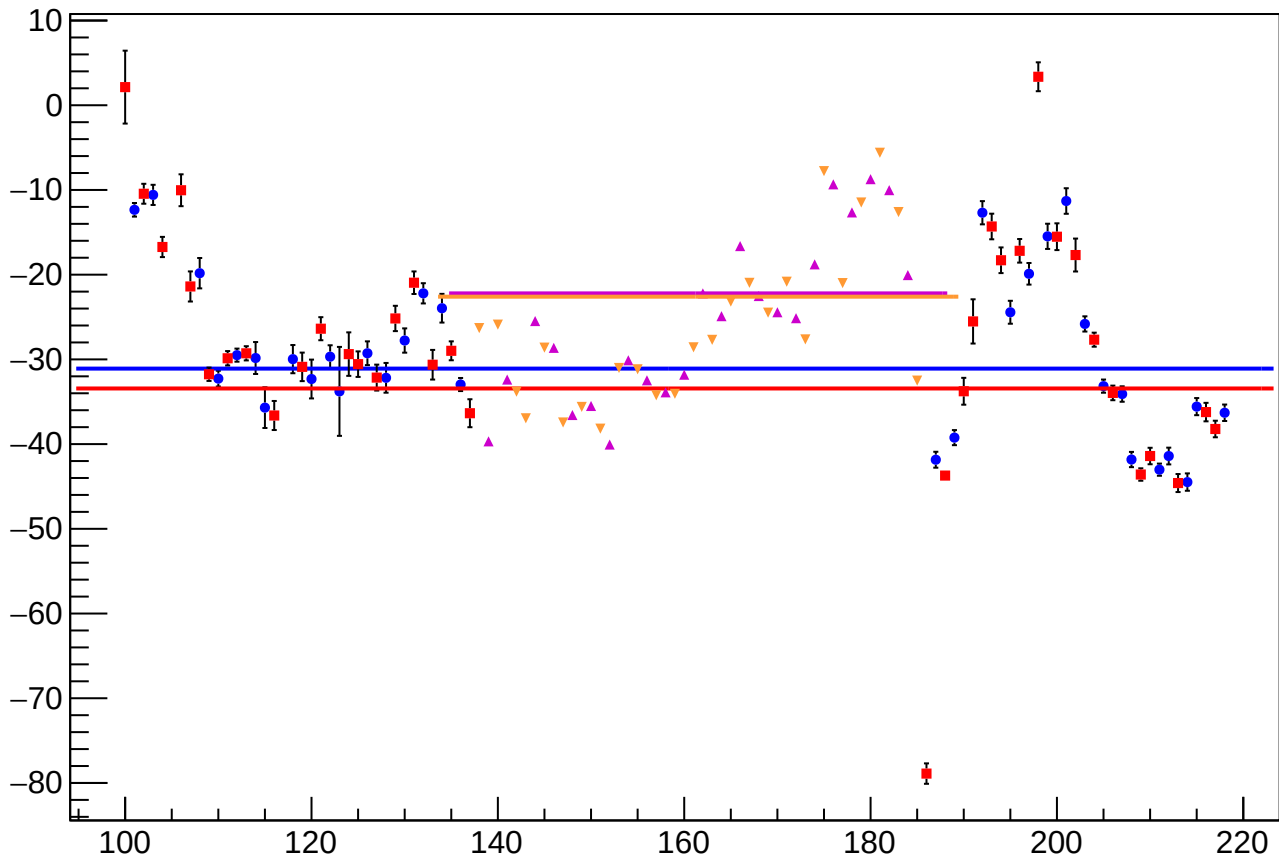
Right: 2.488 $\pm$ 0.111 χ^2 /NDF: 3118.9/68

In: 3.645 $\pm$ 0.053 χ^2 /NDF: 7149.0/55

Out: 3.583 $\pm$ 0.052 χ^2 /NDF: 9165.1/60

All: 3.614 $\pm$ 0.037 χ^2 /NDF: 16314.7/116

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -22.406 ± 0.050 $\chi^2/\text{NDF} = 37575.6/47$

Right: -32.290 ± 0.134 $\chi^2/\text{NDF} = 7206.8/68$

In: -23.299 ± 0.067 $\chi^2/\text{NDF} = 22073.9/55$

Out: -23.957 ± 0.066 $\chi^2/\text{NDF} = 27452.0/60$

All: -23.633 ± 0.047 $\chi^2/\text{NDF} = 49574.7/116$

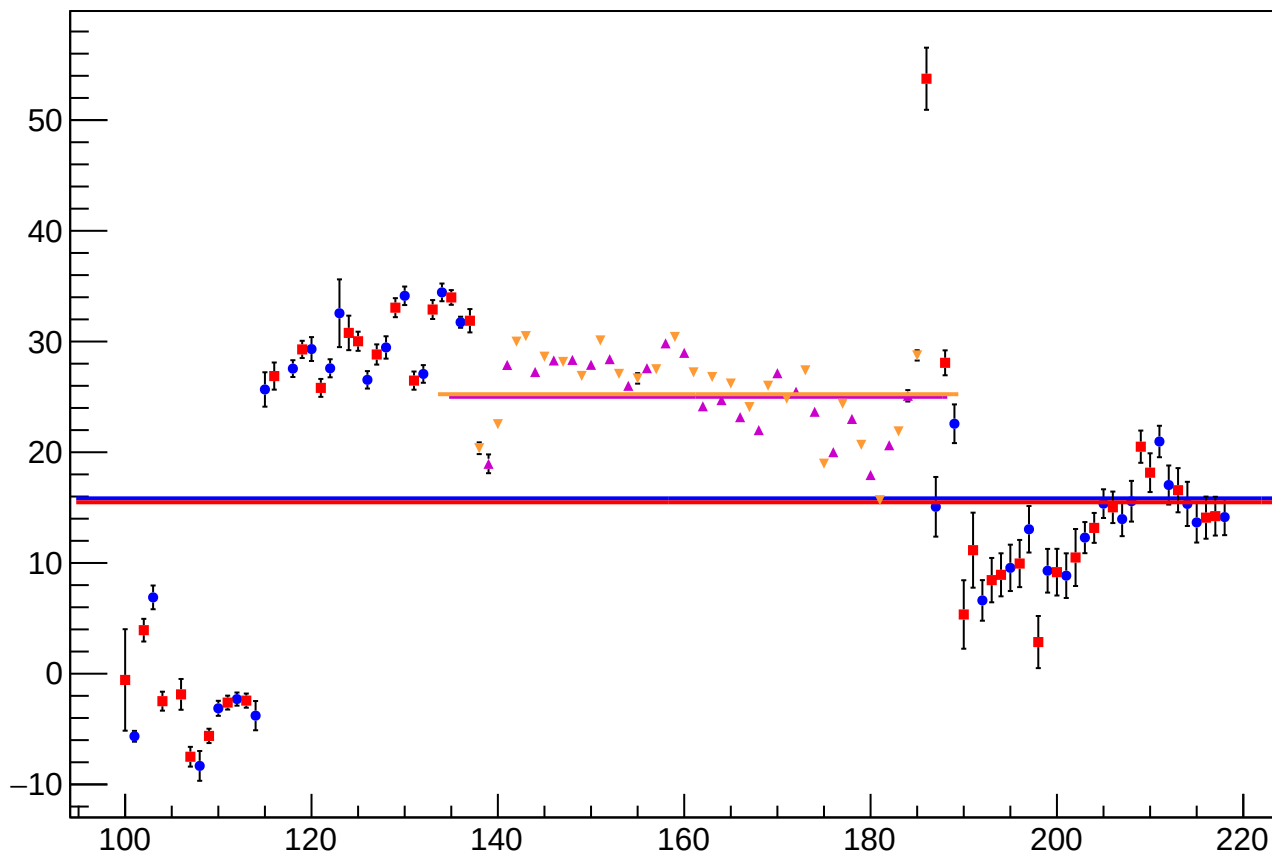
Right In: -31.088 ± 0.191 $\chi^2/\text{NDF} = 2558.2/32$

Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF} = 19933.4/24$

Right Out: -33.434 ± 0.187 $\chi^2/\text{NDF} = 4571.6/35$

Left In: -22.209 ± 0.072 $\chi^2/\text{NDF} = 17627.4/22$

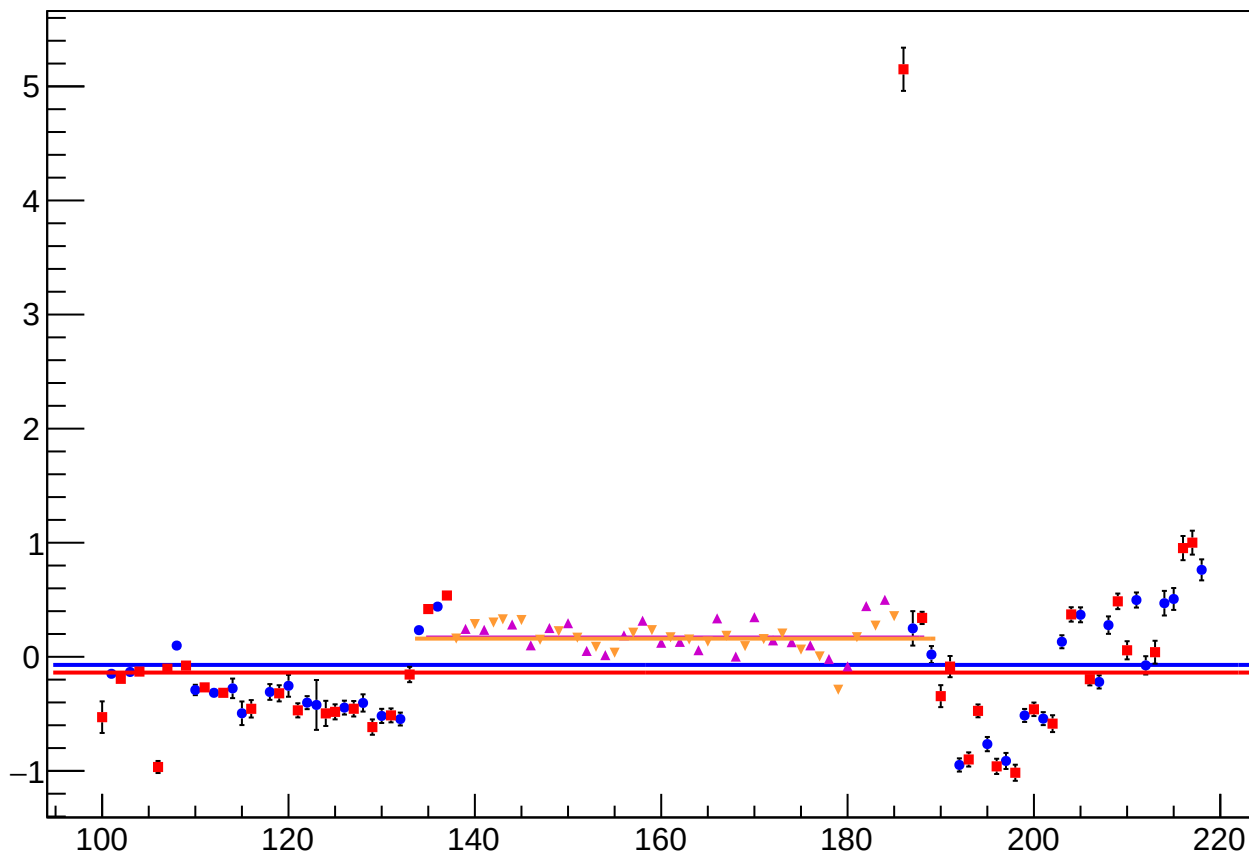
reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.836 $\pm$ 0.176 χ^2/NDF : 7642.3/32
 Left Out: 25.242 $\pm$ 0.063 χ^2/NDF : 3786.5/24
 Right Out: 15.481 $\pm$ 0.180 χ^2/NDF : 7676.7/35
 Left In: 25.009 $\pm$ 0.064 χ^2/NDF : 2722.0/22

Left: 25.128 $\pm$ 0.045 χ^2/NDF : 6515.2/47
 Right: 15.663 $\pm$ 0.126 χ^2/NDF : 15320.9/68
 In: 23.942 $\pm$ 0.060 χ^2/NDF : 12765.8/55
 Out: 24.191 $\pm$ 0.059 χ^2/NDF : 14079.0/60
 All: 24.068 $\pm$ 0.042 χ^2/NDF : 26853.5/116

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.071 ± 0.009 χ^2/NDF : 1956.3/32

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.138 ± 0.009 χ^2/NDF : 2965.5/35

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

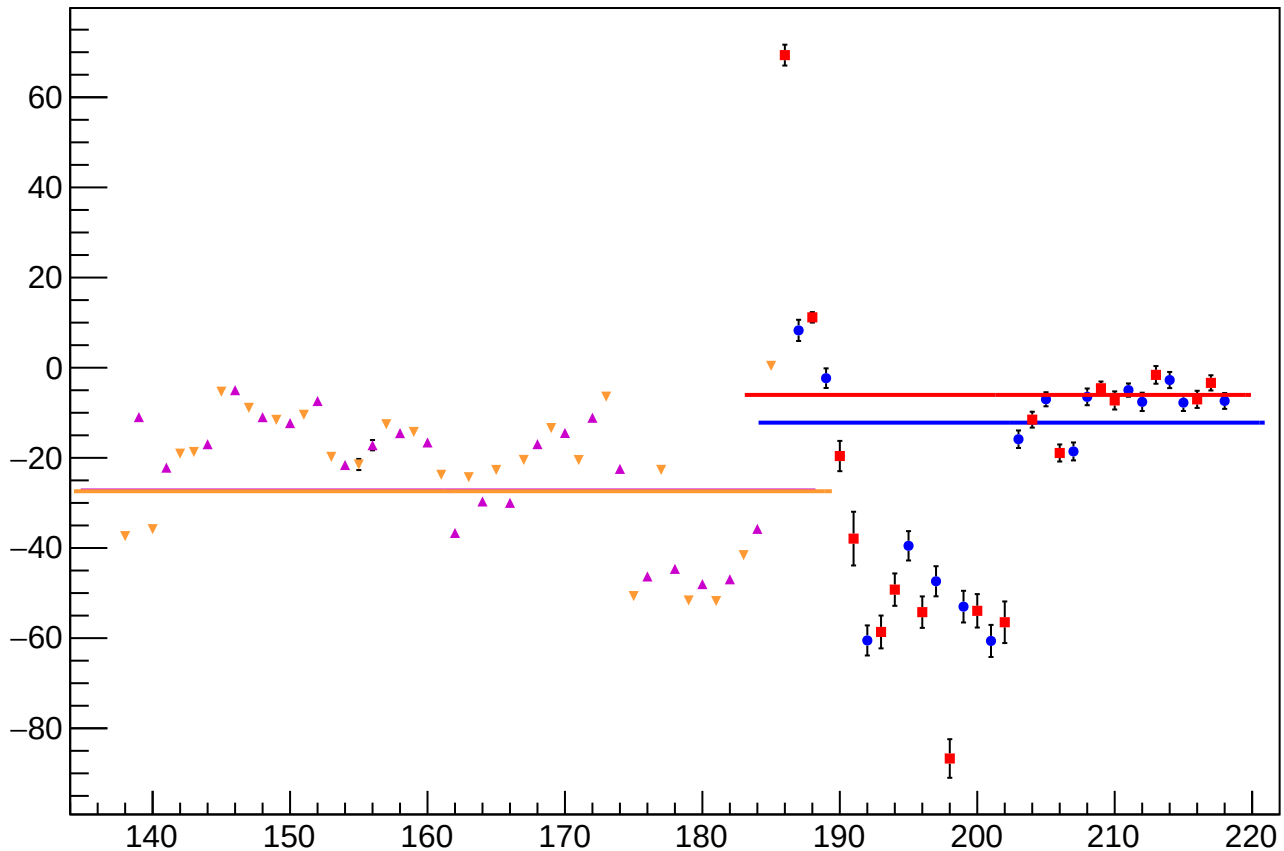
Right: -0.105 ± 0.006 χ^2/NDF : 4950.2/68

In: 0.146 ± 0.003 χ^2/NDF : 5033.0/55

Out: 0.131 ± 0.003 χ^2/NDF : 5839.1/60

All: 0.138 ± 0.002 χ^2/NDF : 10885.3/116

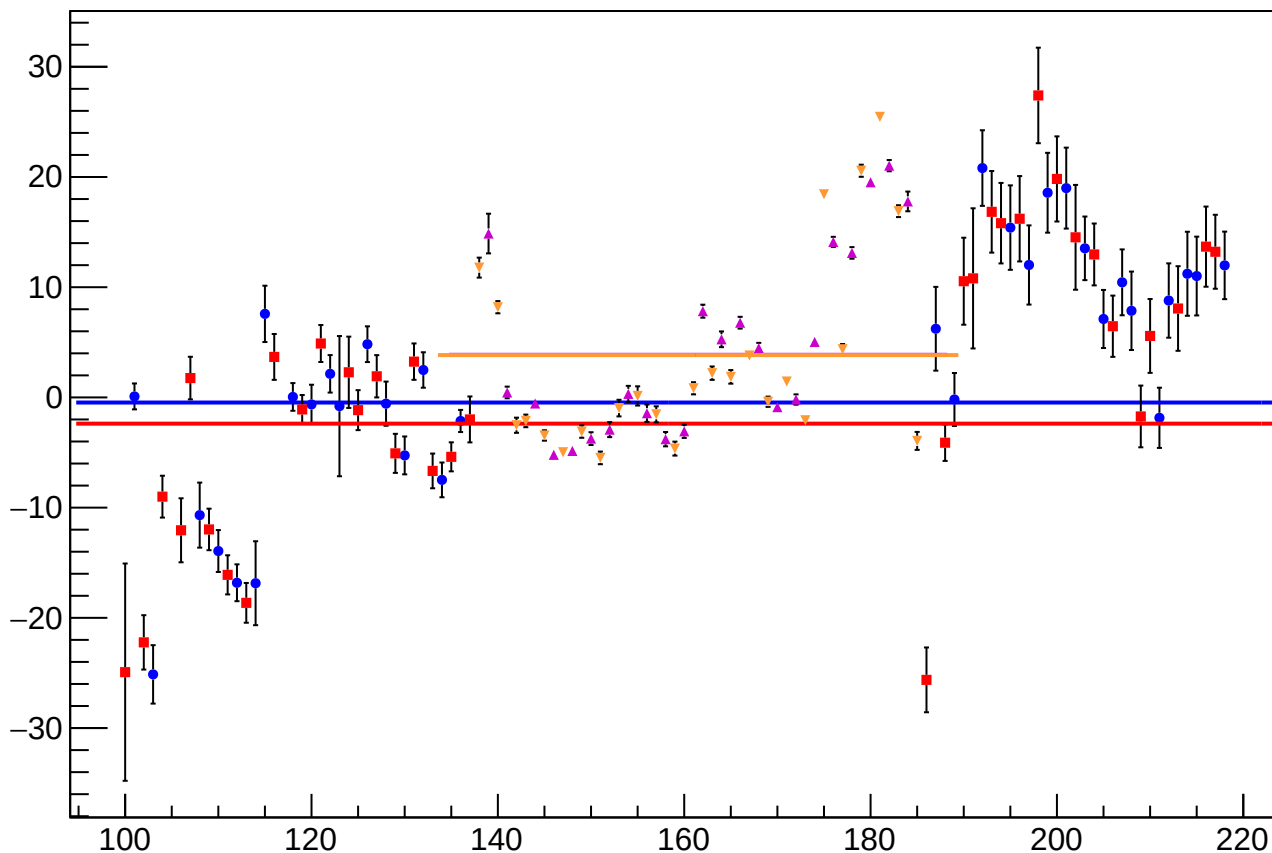
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.190 ± 0.522 χ^2/NDF : 912.8/15
 Left Out: -27.408 ± 0.137 χ^2/NDF : 14850.5/24
 Right Out: -6.035 ± 0.524 χ^2/NDF : 2572.8/16
 Left In: -27.243 ± 0.139 χ^2/NDF : 11305.2/22

Left: -27.327 ± 0.098 χ^2/NDF : 26156.4/47
 Right: -9.126 ± 0.370 χ^2/NDF : 3554.8/32
 In: -26.242 ± 0.135 χ^2/NDF : 12994.1/38
 Out: -26.044 ± 0.132 χ^2/NDF : 18979.4/41
 All: -26.141 ± 0.094 χ^2/NDF : 31974.7/80

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.463 ± 0.366 $\chi^2/\text{NDF}: 540.9/32$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -2.380 ± 0.374 $\chi^2/\text{NDF}: 667.5/35$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

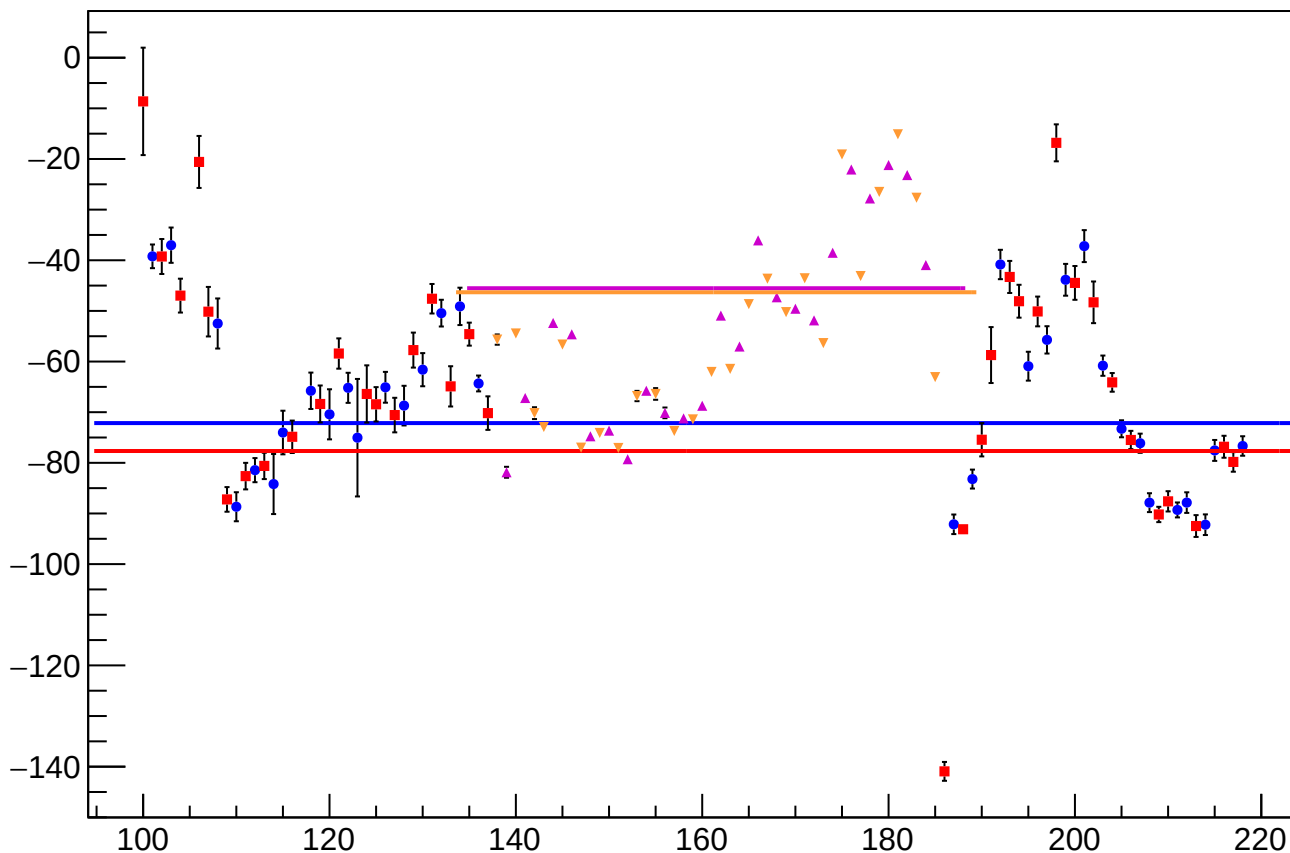
Right: -1.401 ± 0.262 $\chi^2/\text{NDF}: 1221.9/68$

In: 3.501 ± 0.106 $\chi^2/\text{NDF}: 6092.9/55$

Out: 3.353 ± 0.105 $\chi^2/\text{NDF}: 7861.3/60$

All: 3.426 ± 0.075 $\chi^2/\text{NDF}: 13955.2/116$

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.152 ± 0.424 $\chi^2/\text{NDF}: 1452.4/32$

Left Out: -46.318 ± 0.138 $\chi^2/\text{NDF}: 20134.6/24$

Right Out: -77.665 ± 0.414 $\chi^2/\text{NDF}: 3100.3/35$

Left In: -45.522 ± 0.140 $\chi^2/\text{NDF}: 17525.4/22$

Left: -45.925 ± 0.098 $\chi^2/\text{NDF}: 37676.5/47$

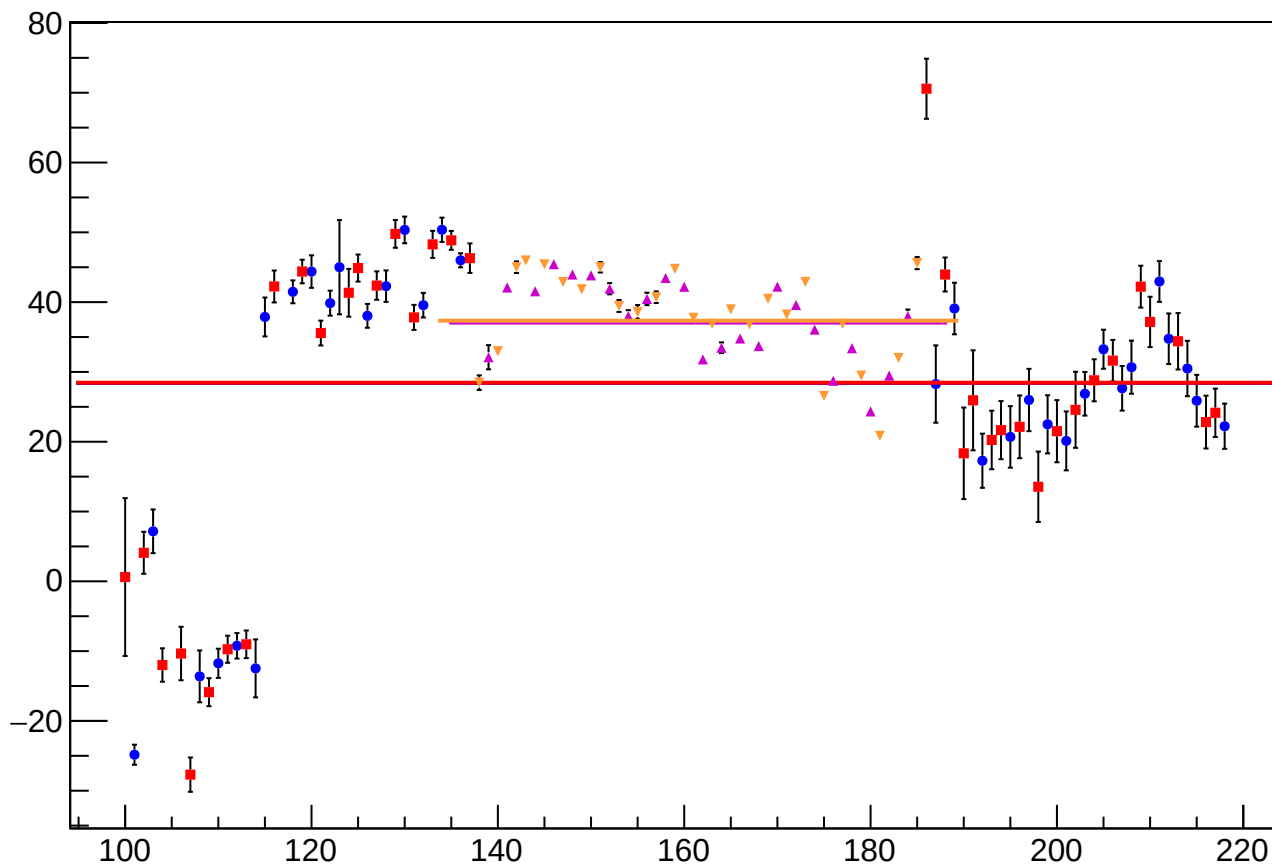
Right: -74.973 ± 0.296 $\chi^2/\text{NDF}: 4639.3/68$

In: -48.134 ± 0.133 $\chi^2/\text{NDF}: 22540.2/55$

Out: -49.450 ± 0.131 $\chi^2/\text{NDF}: 28396.2/60$

All: -48.801 ± 0.093 $\chi^2/\text{NDF}: 50986.3/116$

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.416+/-0.411 χ^2 /NDF: 3372.7/32

Left Out: 37.340+/-0.123 χ^2 /NDF:3149.1/24

Right Out: 28.450+/-0.425 χ^2 /NDF: 3229.0/35

Left In: 37.074+/-0.125 χ^2 /NDF:2397.3/22

Left: 37.209+/-0.088 χ^2 /NDF: 5548.7/47

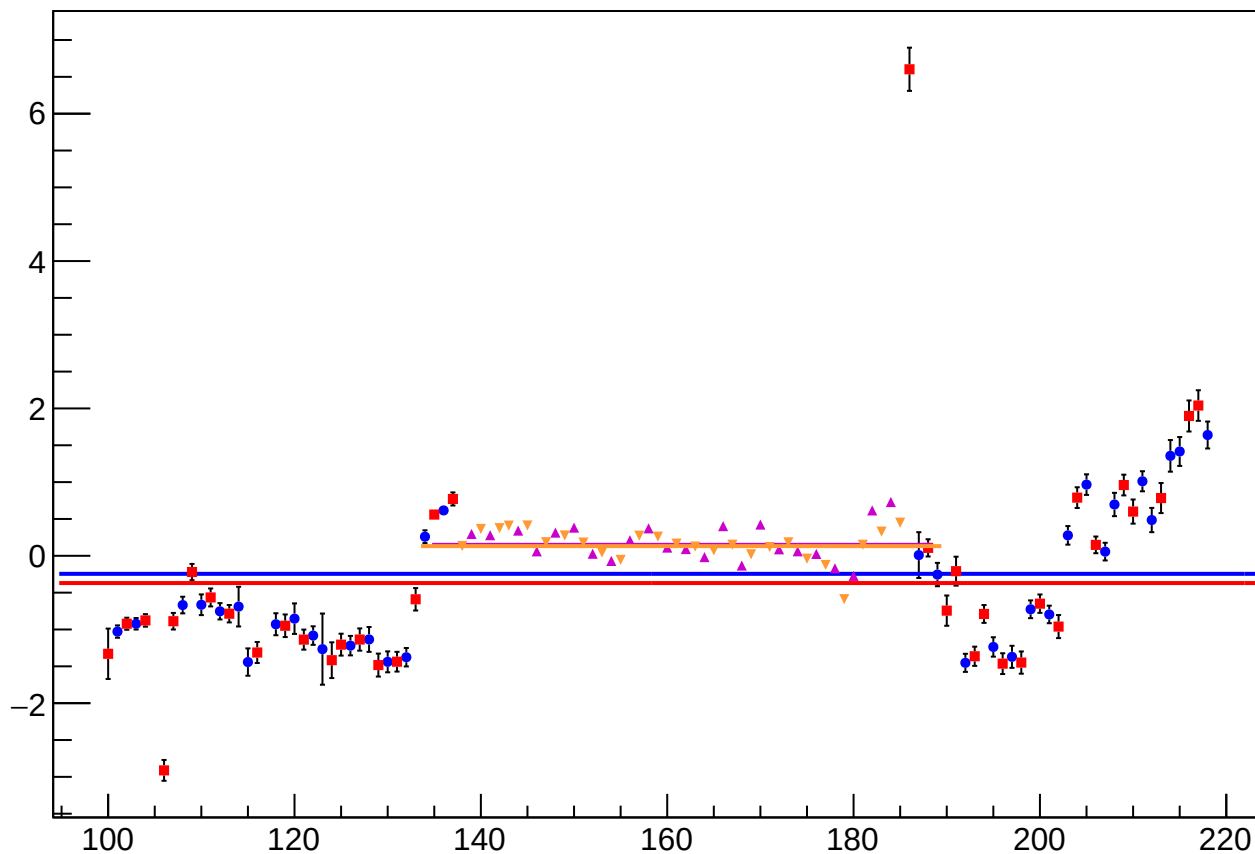
Right: 28.432+/-0.296 χ^2 /NDF: 6601.7/68

In: 36.339+/-0.120 χ^2 /NDF:6176.0/55

Out: 36.655+/-0.118 χ^2 /NDF:6781.2/60

All: 36.500+/-0.084 χ^2 /NDF: 12960.7/116

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.245 ± 0.021 χ^2/NDF : 1740.0/32

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.370 ± 0.021 χ^2/NDF : 2472.9/35

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

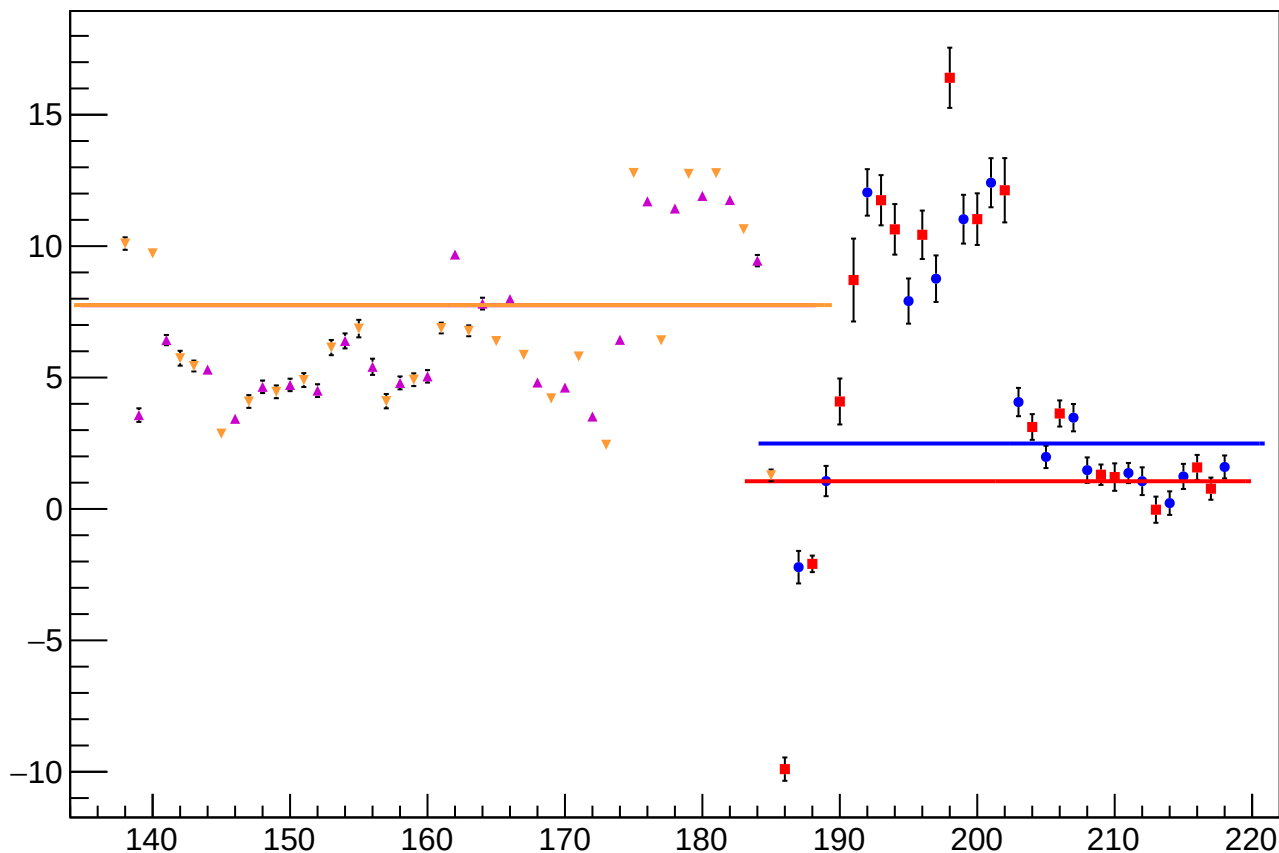
Right: -0.306 ± 0.015 χ^2/NDF : 4230.9/68

In: 0.120 ± 0.006 χ^2/NDF : 3881.6/55

Out: 0.098 ± 0.005 χ^2/NDF : 4426.4/60

All: 0.109 ± 0.004 χ^2/NDF : 8316.5/116

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.490 ± 0.136 $\chi^2/\text{NDF}: 538.6/15$

Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$

Right Out: 1.055 ± 0.134 $\chi^2/\text{NDF}: 1487.9/16$

Left In: 7.753 ± 0.035 $\chi^2/\text{NDF}: 8345.2/22$

Left: 7.755 ± 0.025 $\chi^2/\text{NDF}: 20073.8/47$

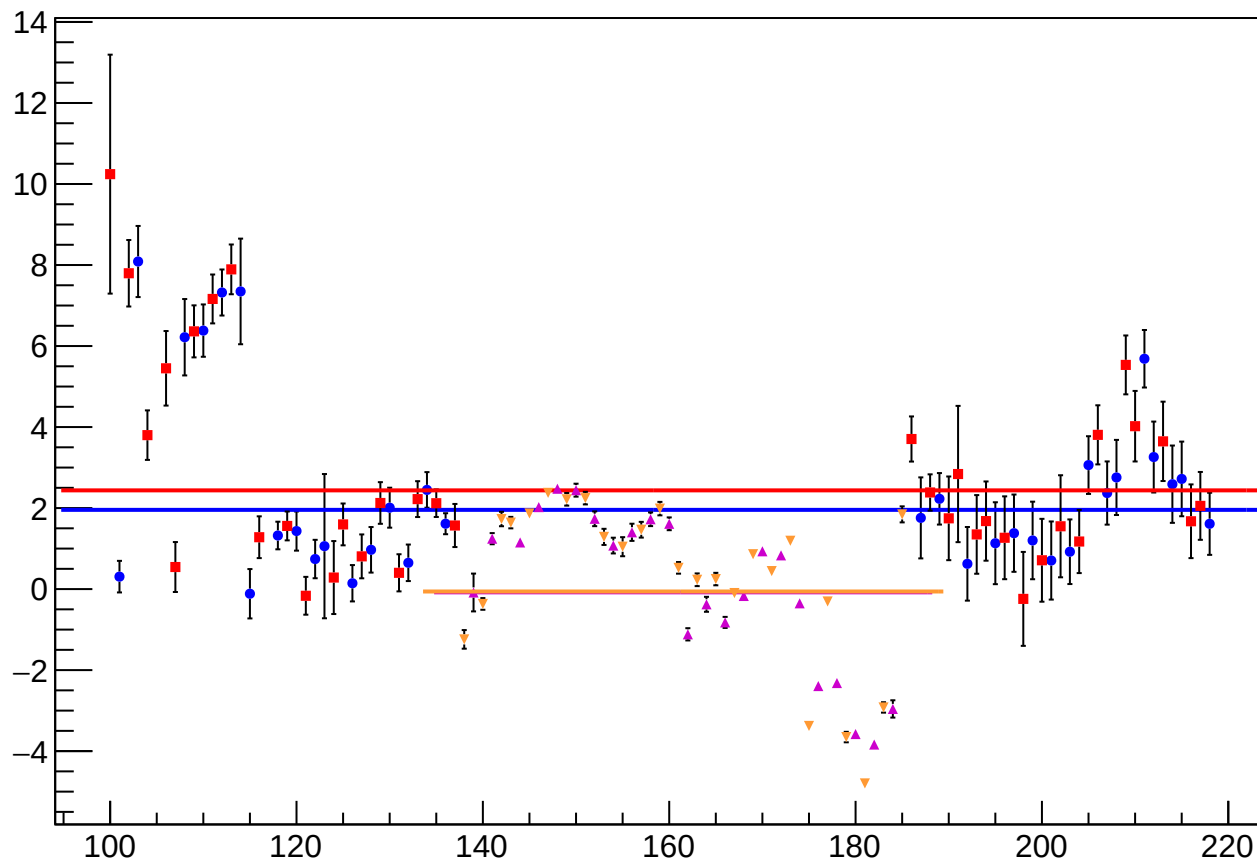
Right: 1.762 ± 0.096 $\chi^2/\text{NDF}: 2082.7/32$

In: 7.427 ± 0.034 $\chi^2/\text{NDF}: 10280.3/38$

Out: 7.346 ± 0.033 $\chi^2/\text{NDF}: 15549.5/41$

All: 7.386 ± 0.024 $\chi^2/\text{NDF}: 25832.6/80$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.956 ± 0.102 $\chi^2/\text{NDF}: 336.0/32$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.437 ± 0.104 $\chi^2/\text{NDF}: 383.4/35$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

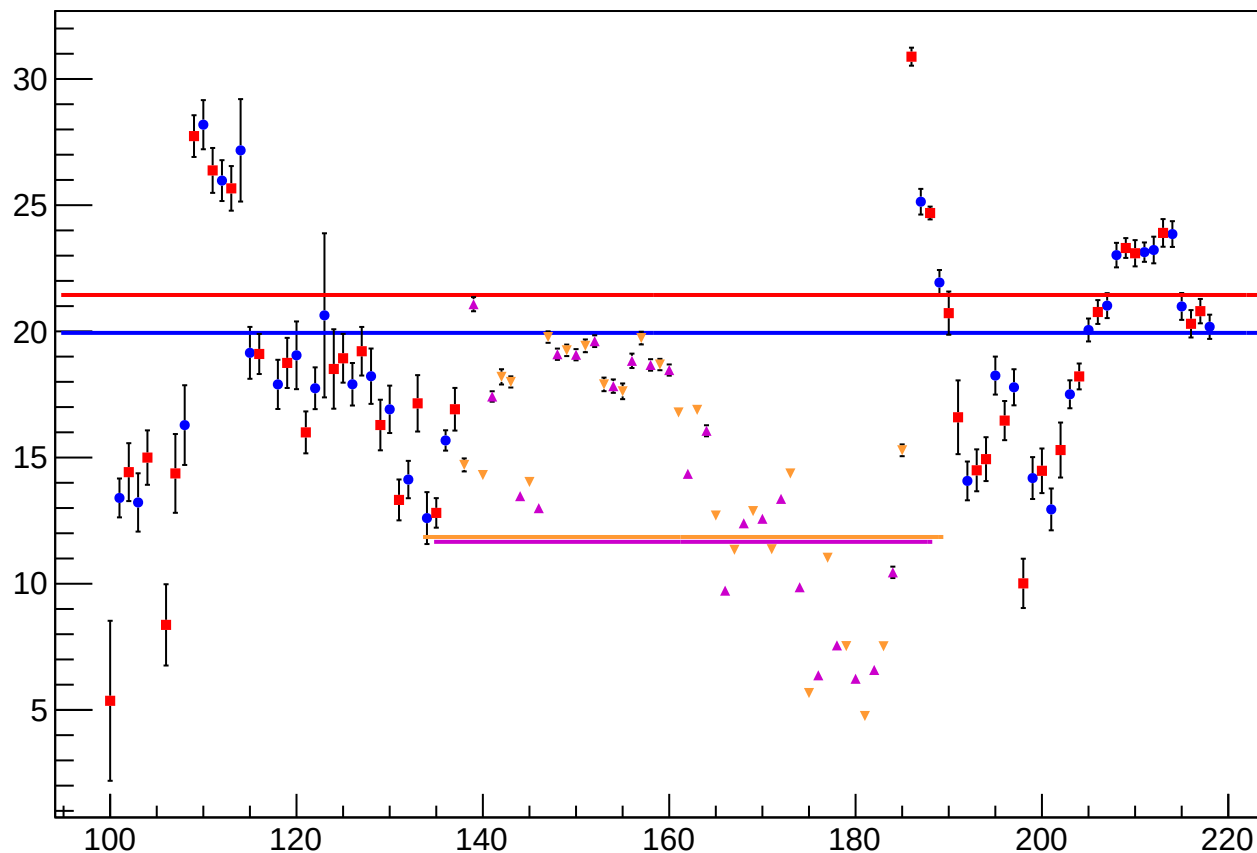
Right: 2.192 ± 0.073 $\chi^2/\text{NDF}: 730.2/68$

In: 0.063 ± 0.027 $\chi^2/\text{NDF}: 5682.3/55$

Out: 0.105 ± 0.027 $\chi^2/\text{NDF}: 6985.9/60$

All: 0.085 ± 0.019 $\chi^2/\text{NDF}: 12669.4/116$

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.940 $\pm$ 0.114 χ^2 /NDF: 1054.6/32

Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24

Right Out: 21.442 $\pm$ 0.110 χ^2 /NDF: 2133.0/35

Left In: 11.660 $\pm$ 0.035 χ^2 /NDF:16710.2/22

Left: 11.758 $\pm$ 0.025 χ^2 /NDF: 35874.9/47

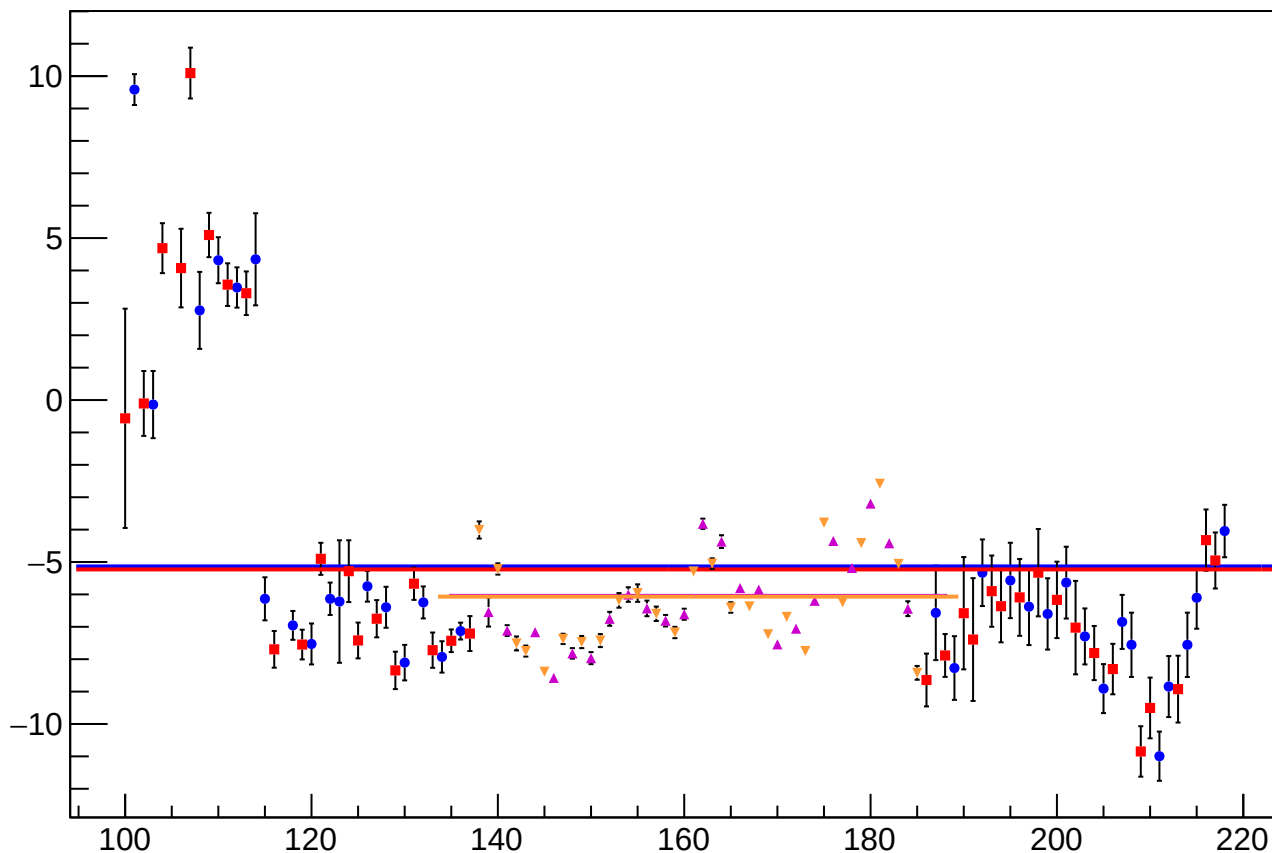
Right: 20.720 $\pm$ 0.079 χ^2 /NDF: 3277.6/68

In: 12.379 $\pm$ 0.034 χ^2 /NDF:22575.2/55

Out: 12.724 $\pm$ 0.033 χ^2 /NDF:28225.1/60

All: 12.554 $\pm$ 0.024 χ^2 /NDF: 50853.6/116

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.136 ± 0.115 χ^2/NDF : 1746.3/32

Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24

Right Out: -5.229 ± 0.119 χ^2/NDF : 1523.5/35

Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47

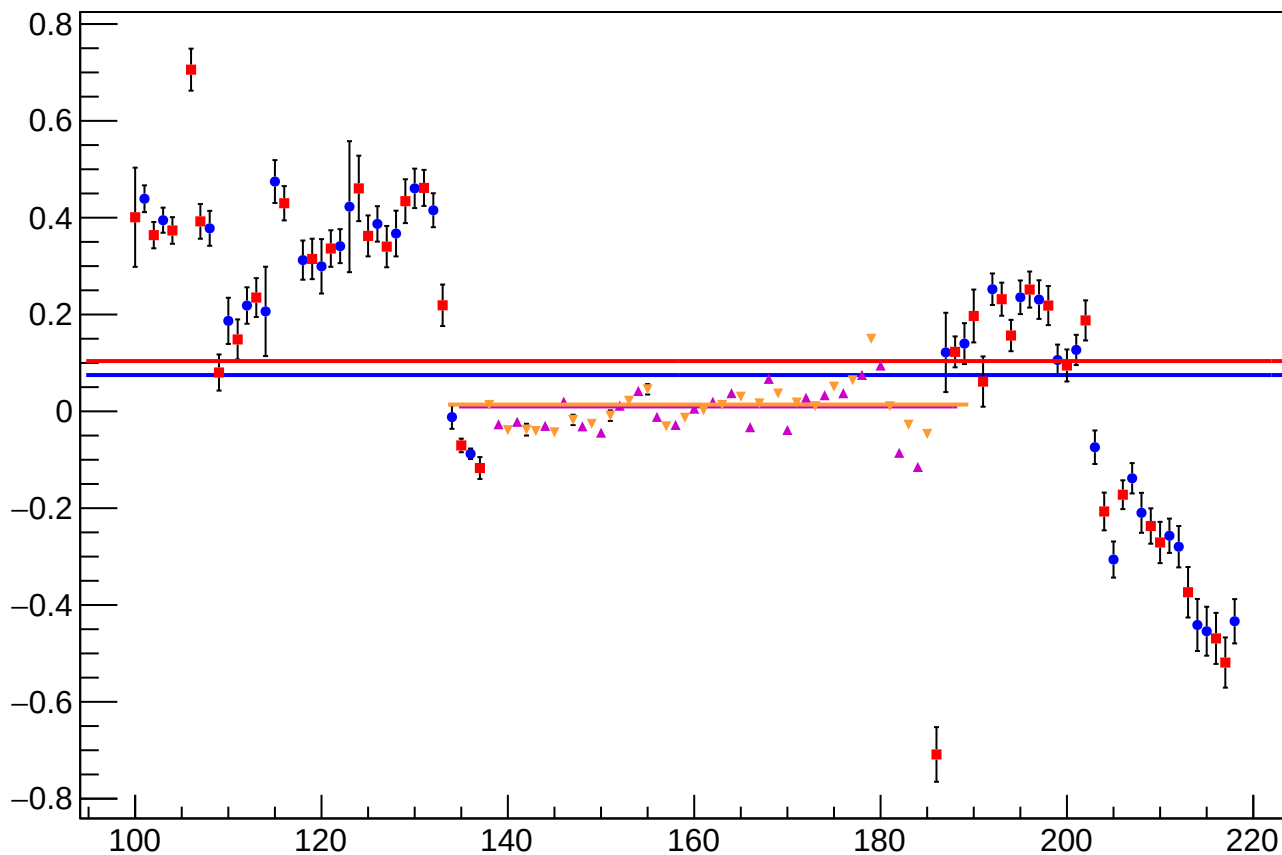
Right: -5.181 ± 0.082 χ^2/NDF : 3270.1/68

In: -5.980 ± 0.031 χ^2/NDF : 4098.5/55

Out: -6.014 ± 0.030 χ^2/NDF : 4242.0/60

All: -5.998 ± 0.021 χ^2/NDF : 8341.1/116

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.075 $\pm$ 0.006 χ^2 /NDF: 1919.7/32

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.104 $\pm$ 0.006 χ^2 /NDF: 2027.7/35

Left In: 0.010 $\pm$ 0.001 χ^2 /NDF: 1216.1/22

Left: 0.012 $\pm$ 0.001 χ^2 /NDF: 2176.2/47

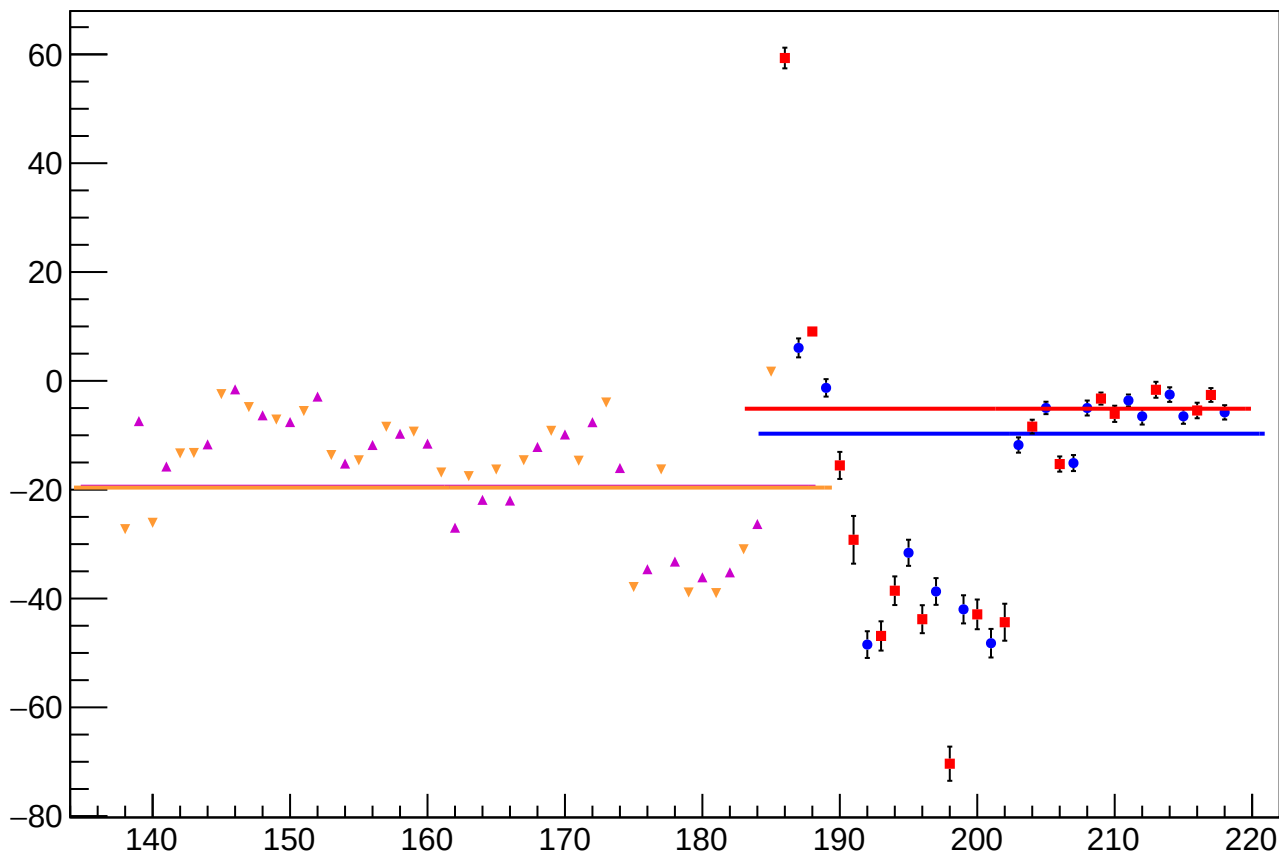
Right: 0.089 $\pm$ 0.004 χ^2 /NDF: 3960.0/68

In: 0.014 $\pm$ 0.001 χ^2 /NDF: 3257.7/55

Out: 0.019 $\pm$ 0.001 χ^2 /NDF: 3205.0/60

All: 0.017 $\pm$ 0.001 χ^2 /NDF: 6469.1/116

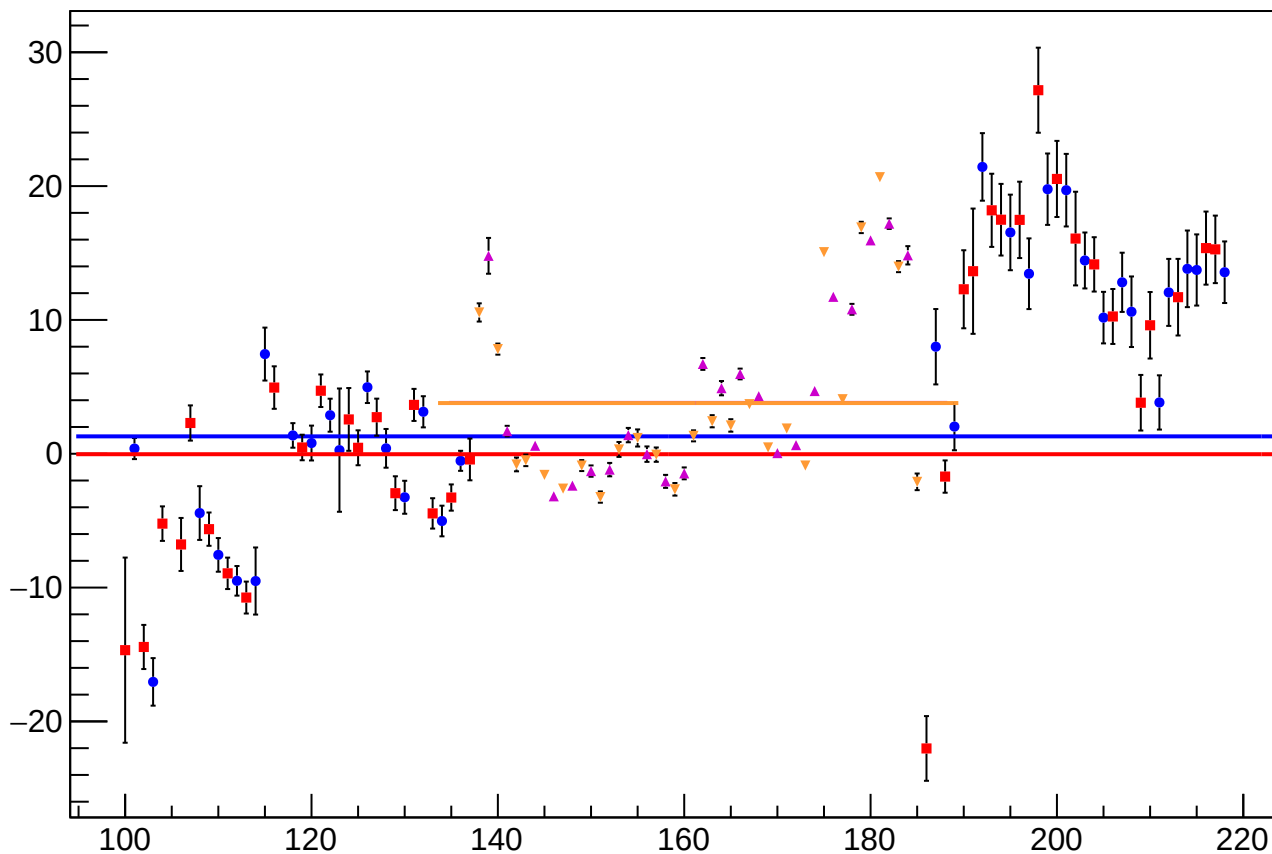
reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.707 ± 0.386 $\chi^2/\text{NDF}: 1074.9/15$
 Left Out: -19.612 ± 0.103 $\chi^2/\text{NDF}: 15761.3/24$
 Right Out: -5.117 ± 0.389 $\chi^2/\text{NDF}: 2934.9/16$
 Left In: -19.450 ± 0.105 $\chi^2/\text{NDF}: 12283.1/22$

Left: -19.533 ± 0.074 $\chi^2/\text{NDF}: 28045.6/47$
 Right: -7.429 ± 0.274 $\chi^2/\text{NDF}: 4080.0/32$
 In: -18.779 ± 0.101 $\chi^2/\text{NDF}: 13950.8/38$
 Out: -18.659 ± 0.100 $\chi^2/\text{NDF}: 19992.9/41$
 All: -18.718 ± 0.071 $\chi^2/\text{NDF}: 33944.4/80$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected

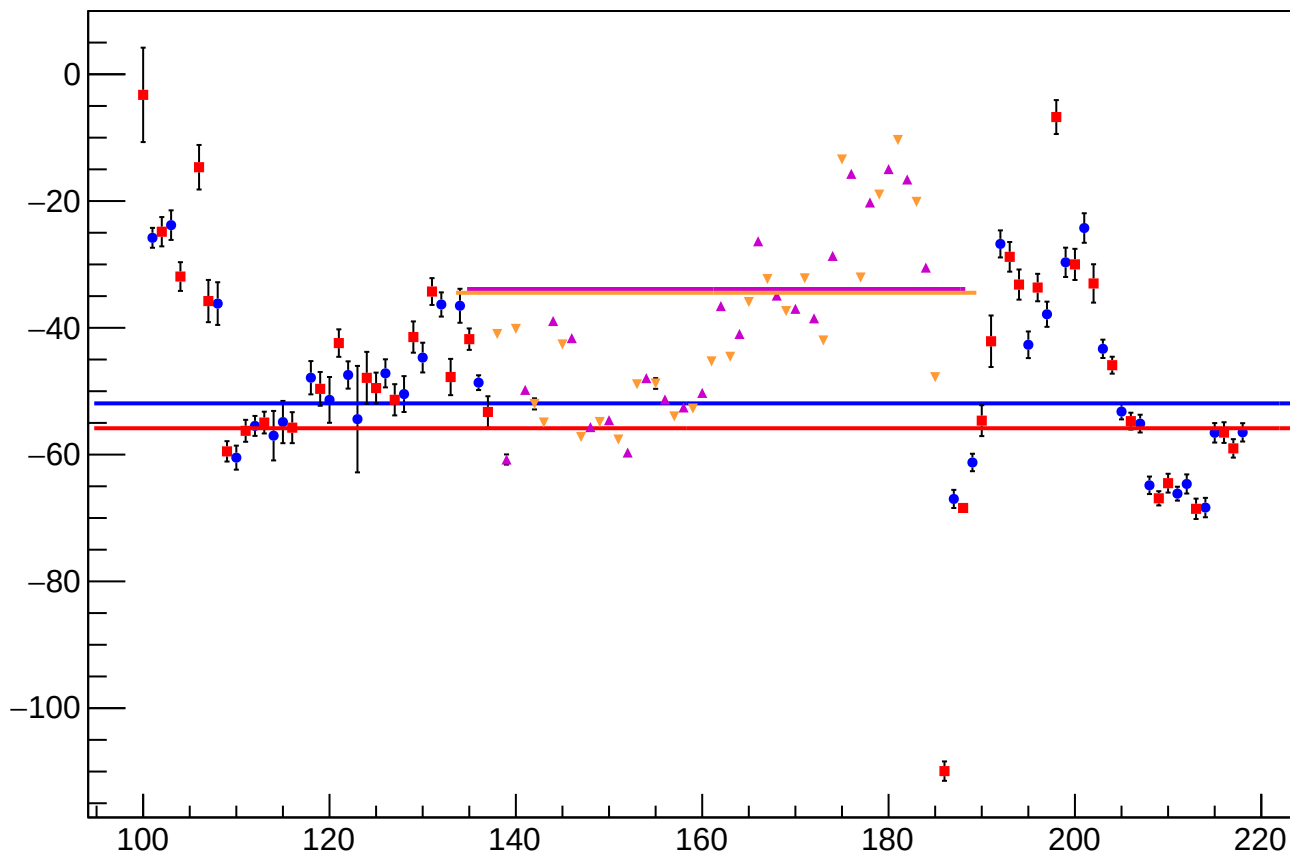


Right In: 1.299 ± 0.263 $\chi^2/\text{NDF}: 757.2/32$
 Left Out: 3.788 ± 0.082 $\chi^2/\text{NDF}: 7150.5/24$
 Right Out: -0.034 ± 0.268 $\chi^2/\text{NDF}: 902.3/35$
 Left In: 3.799 ± 0.084 $\chi^2/\text{NDF}: 5517.0/22$

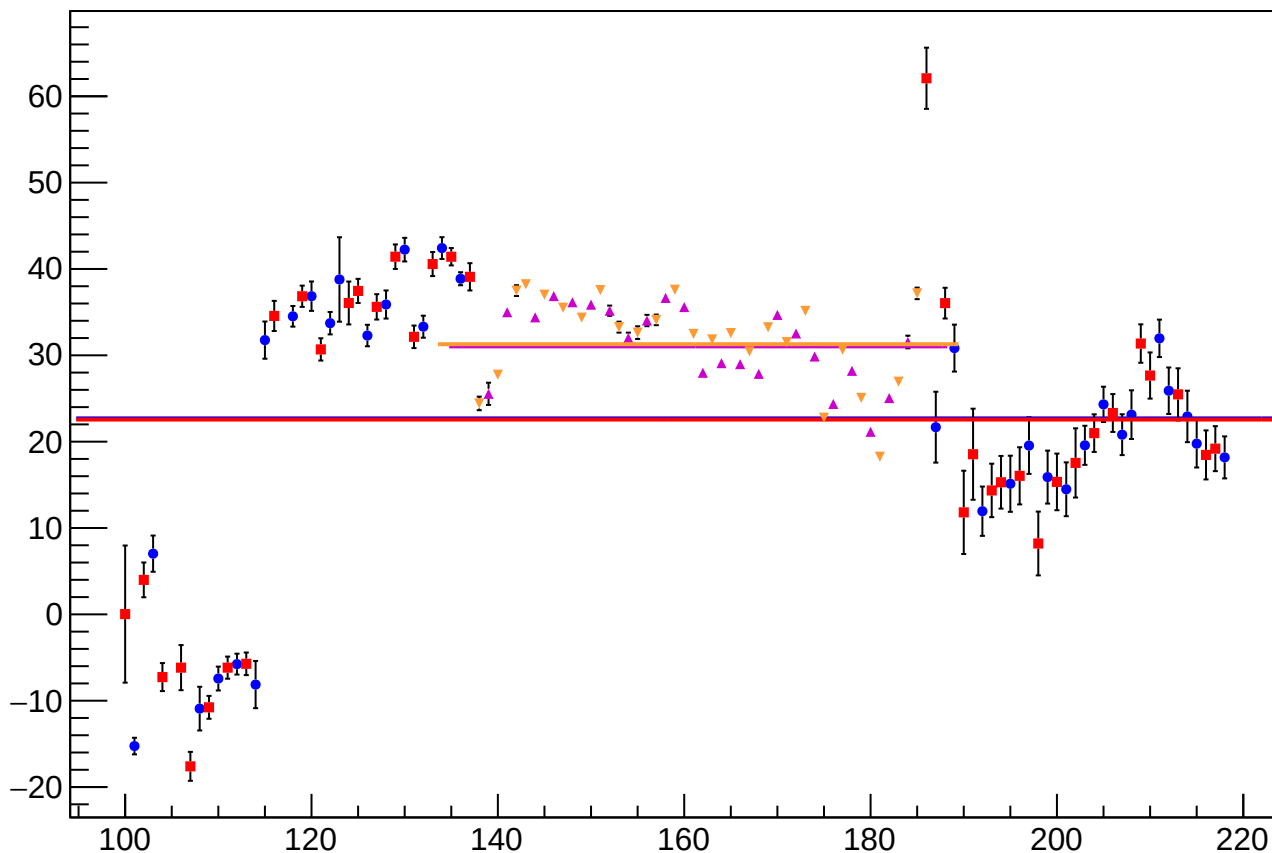
Left: 3.793 ± 0.059 $\chi^2/\text{NDF}: 12667.5/47$
 Right: 0.646 ± 0.188 $\chi^2/\text{NDF}: 1672.1/68$
 In: 3.569 ± 0.080 $\chi^2/\text{NDF}: 6356.5/55$
 Out: 3.461 ± 0.078 $\chi^2/\text{NDF}: 8238.7/60$

All: 3.514 ± 0.056 $\chi^2/\text{NDF}: 14596.1/116$

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.695 $\pm$ 0.295 χ^2 /NDF: 4386.5/32

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.561 $\pm$ 0.305 χ^2 /NDF: 4282.0/35

Left In: 31.039 $\pm$ 0.094 χ^2 /NDF:2480.0/22

Left: 31.165 $\pm$ 0.066 χ^2 /NDF: 5829.2/47

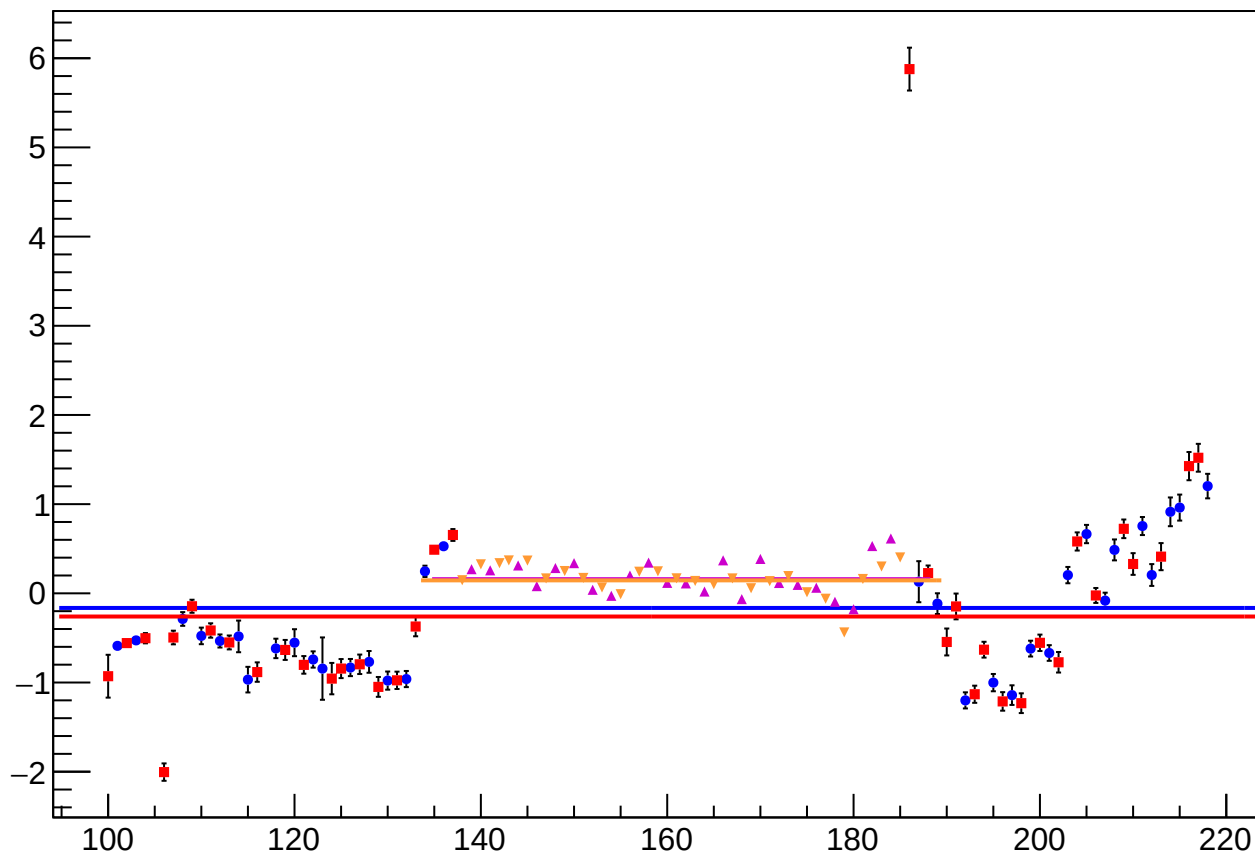
Right: 22.630 $\pm$ 0.212 χ^2 /NDF: 8668.6/68

In: 30.268 $\pm$ 0.090 χ^2 /NDF:7591.8/55

Out: 30.552 $\pm$ 0.088 χ^2 /NDF:8378.6/60

All: 30.412 $\pm$ 0.063 χ^2 /NDF: 15975.5/116

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.164 ± 0.015 χ^2/NDF : 1750.3/32

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.260 ± 0.015 χ^2/NDF : 2619.0/35

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

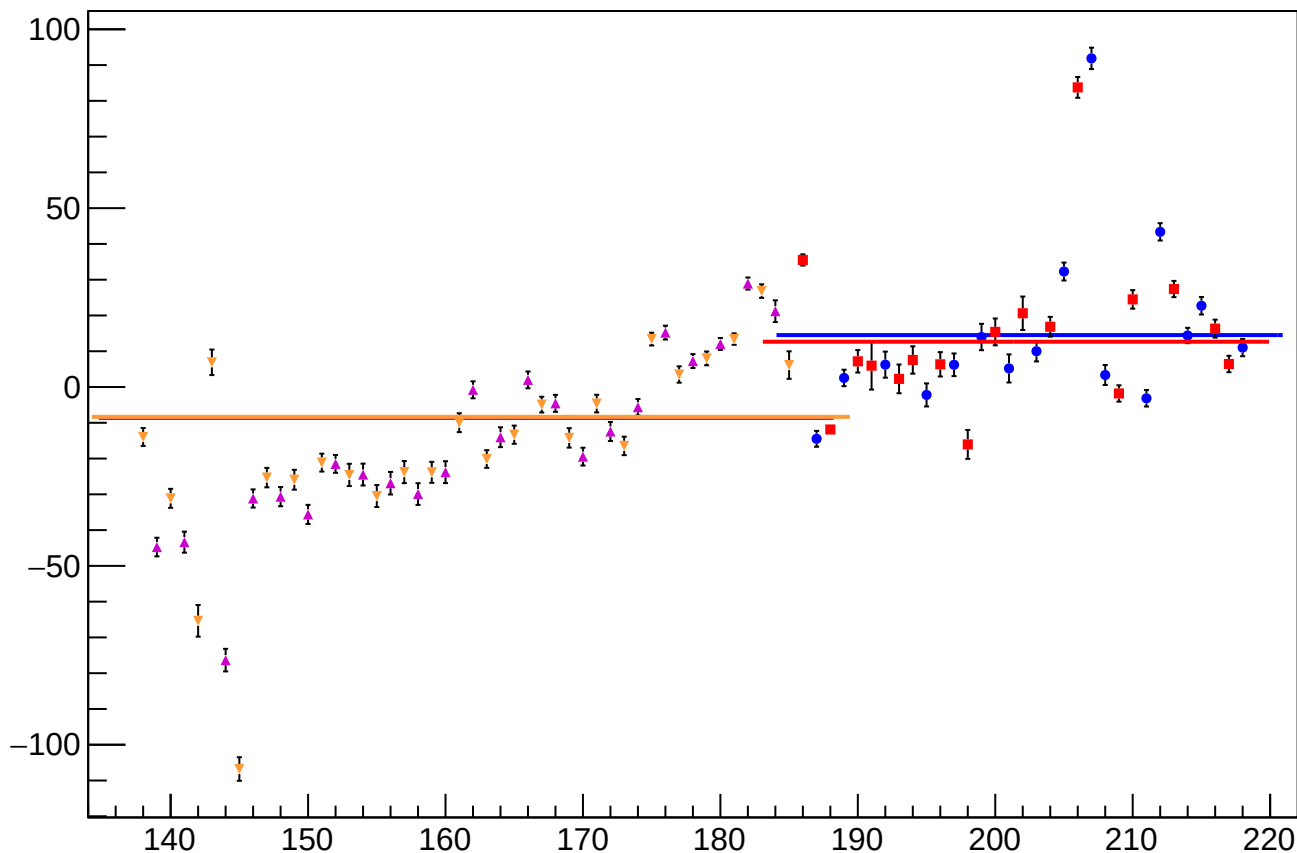
Right: -0.211 ± 0.011 χ^2/NDF : 4390.0/68

In: 0.134 ± 0.004 χ^2/NDF : 4196.1/55

Out: 0.116 ± 0.004 χ^2/NDF : 4867.1/60

All: 0.125 ± 0.003 χ^2/NDF : 9072.6/116

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.515 $\pm$ 0.669 χ^2 /NDF: 1194.8/15

Left Out: -8.332 $\pm$ 0.500 χ^2 /NDF: 2226.2/24

Right Out: 12.663 $\pm$ 0.608 χ^2 /NDF: 1384.2/16

Left In: -8.652 $\pm$ 0.507 χ^2 /NDF: 2223.8/22

Left: -8.490 $\pm$ 0.356 χ^2 /NDF: 4450.2/47

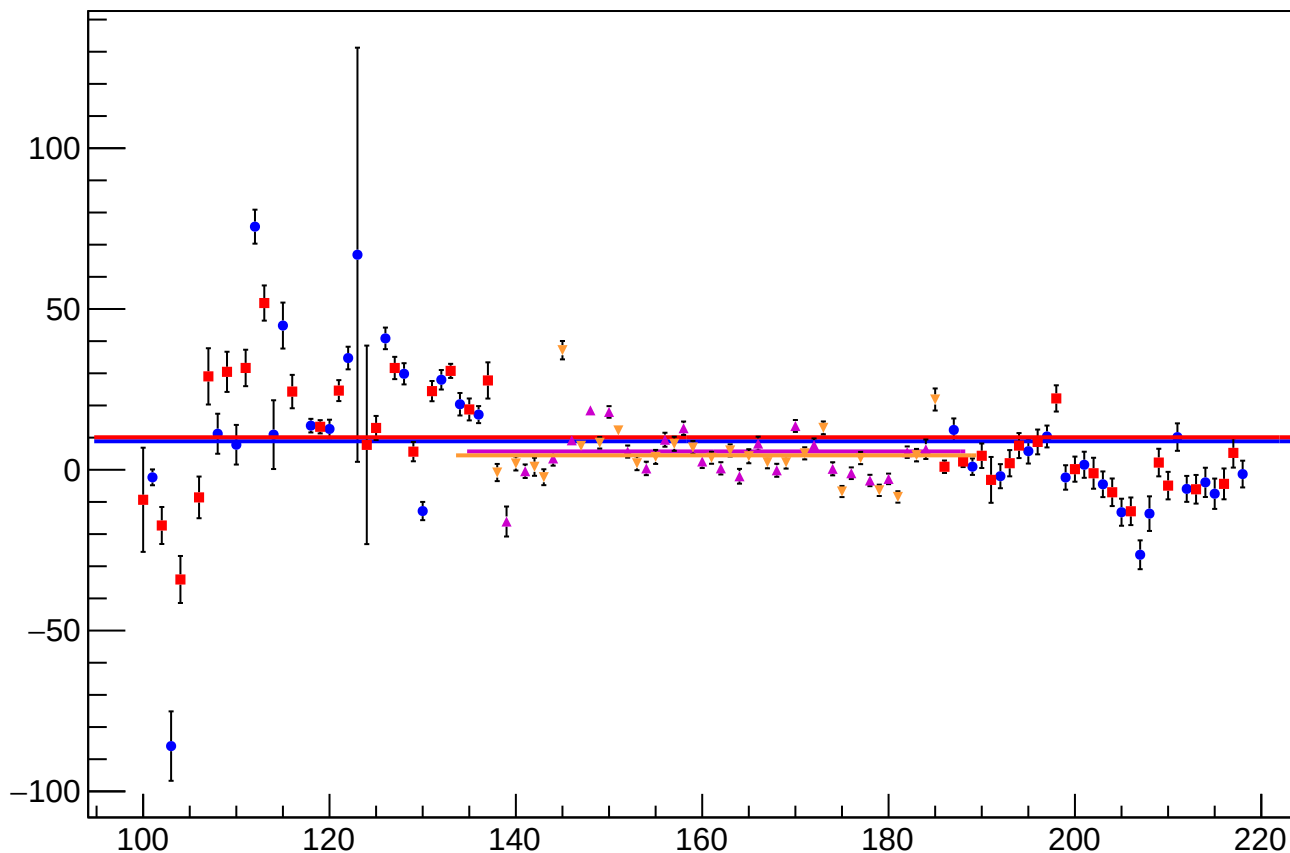
Right: 13.501 $\pm$ 0.450 χ^2 /NDF: 2583.2/32

In: -0.189 $\pm$ 0.404 χ^2 /NDF: 4180.8/38

Out: 0.132 $\pm$ 0.386 χ^2 /NDF: 4322.5/41

All: -0.021 $\pm$ 0.279 χ^2 /NDF: 8503.6/80

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.867 ± 0.644 $\chi^2/\text{NDF}: 784.3/32$

Left Out: 4.484 ± 0.392 $\chi^2/\text{NDF}: 371.9/24$

Right Out: 10.111 ± 0.614 $\chi^2/\text{NDF}: 510.1/35$

Left In: 5.705 ± 0.404 $\chi^2/\text{NDF}: 324.1/22$

Left: 5.076 ± 0.281 $\chi^2/\text{NDF}: 700.6/47$

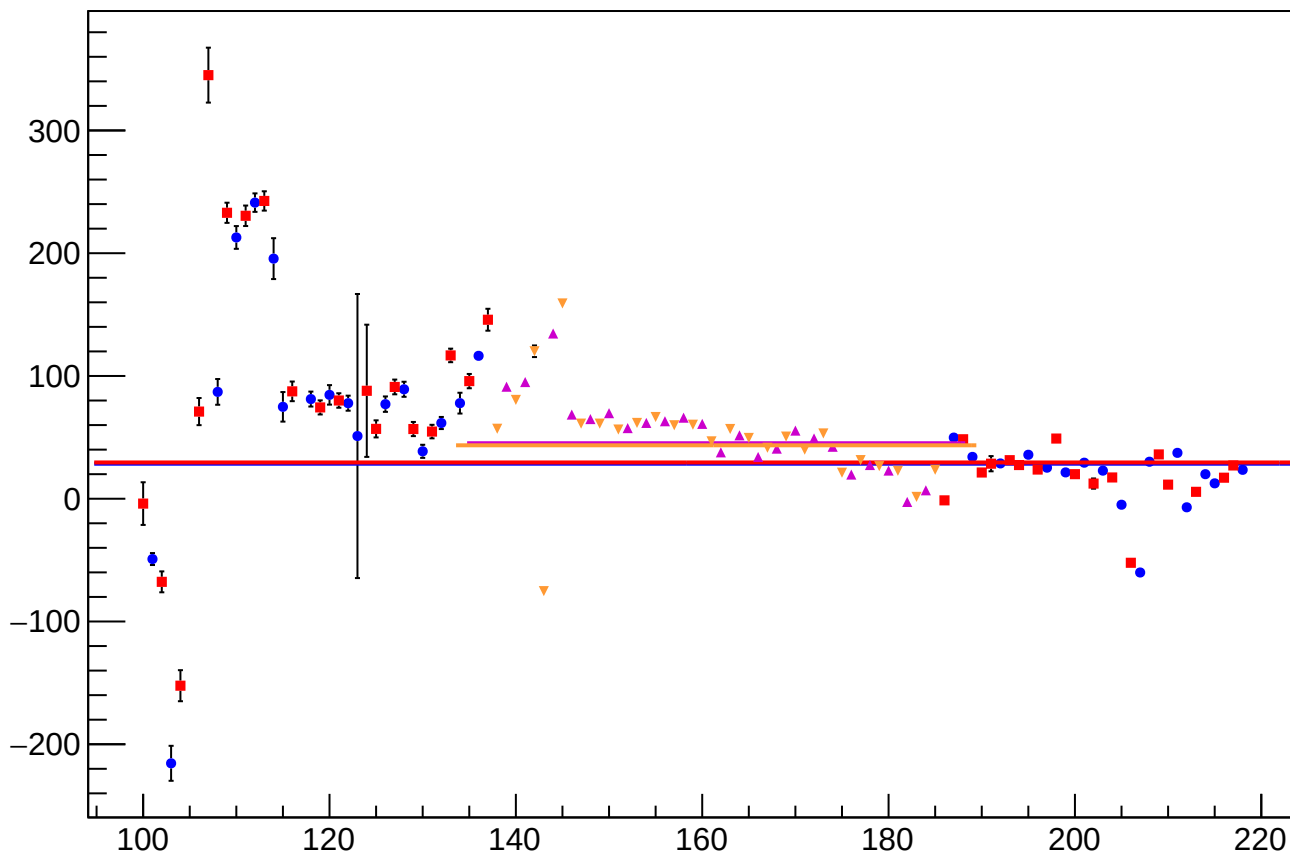
Right: 9.519 ± 0.445 $\chi^2/\text{NDF}: 1296.3/68$

In: 6.598 ± 0.342 $\chi^2/\text{NDF}: 1125.7/55$

Out: 6.113 ± 0.331 $\chi^2/\text{NDF}: 941.5/60$

All: 6.347 ± 0.238 $\chi^2/\text{NDF}: 2068.2/116$

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 28.526+/-0.597 χ^2/NDF : 4350.2/32

Left Out: 43.524+/-0.498 χ^2/NDF : 3830.7/24

Right Out: 29.545+/-0.524 χ^2/NDF : 5466.8/35

Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47

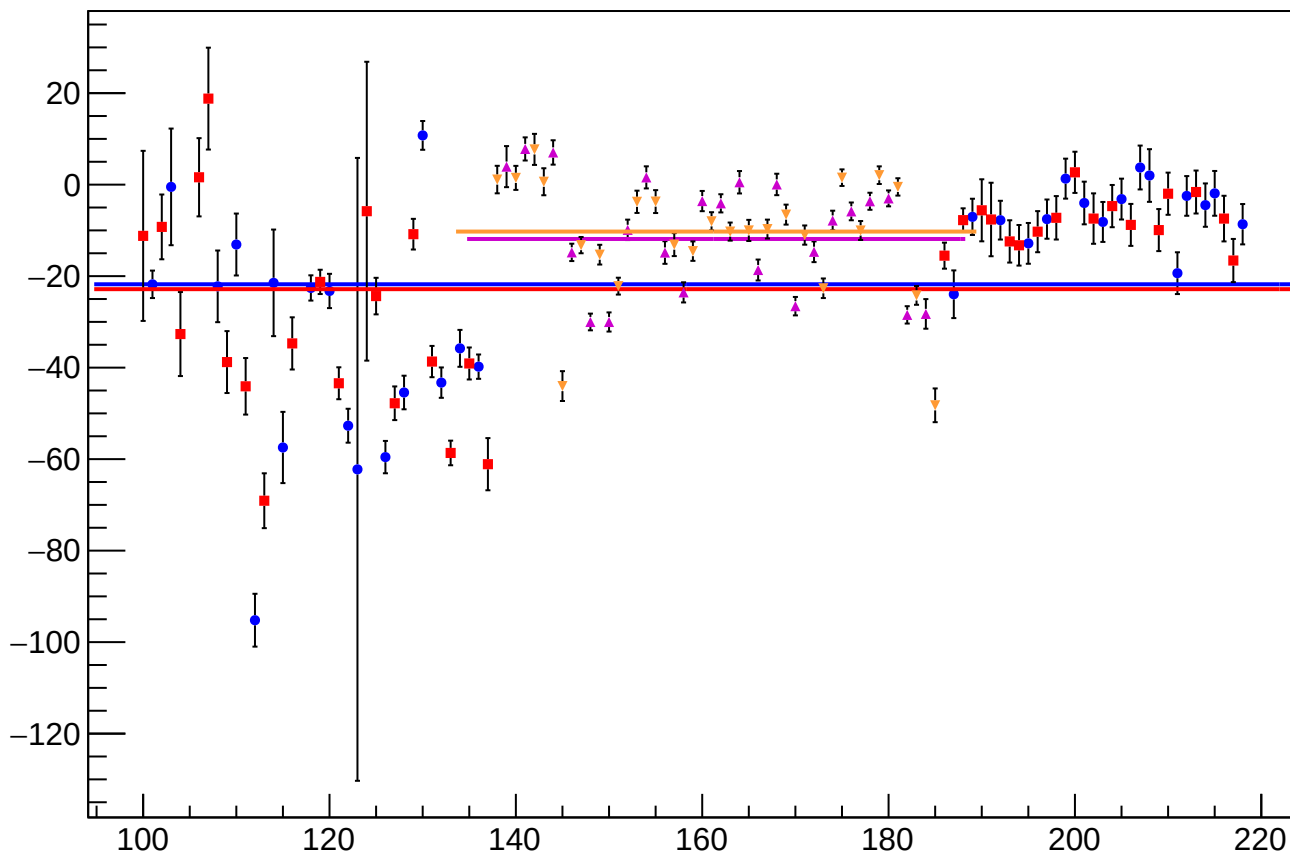
Right: 29.102+/-0.394 χ^2/NDF : 9818.6/68

In: 38.265+/-0.385 χ^2/NDF : 7854.4/55

Out: 36.881+/-0.361 χ^2/NDF : 9671.4/60

All: 37.528+/-0.263 χ^2/NDF : 17532.7/116

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.778 ± 0.744 χ^2/NDF : 833.6/32

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -22.848 ± 0.735 χ^2/NDF : 672.2/35

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

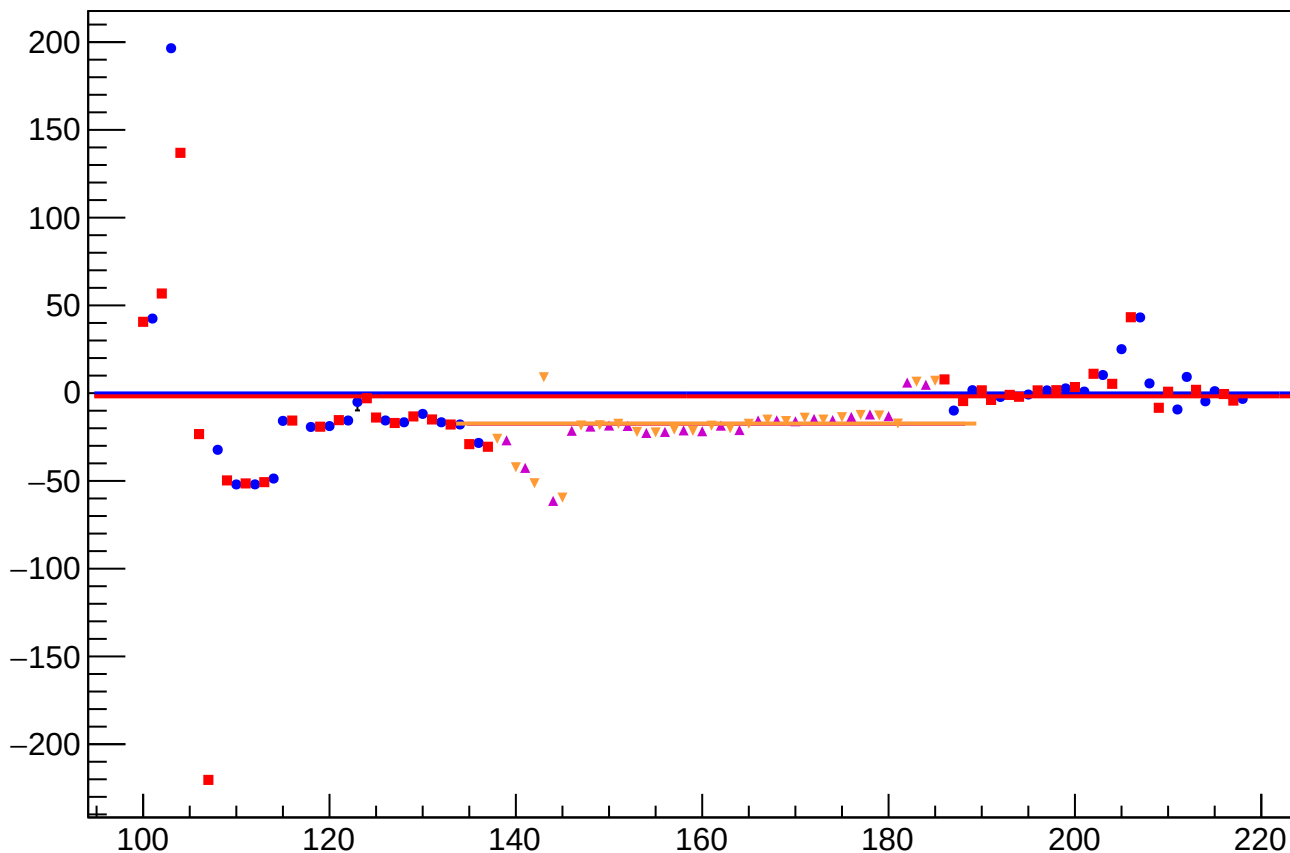
Right: -22.320 ± 0.523 χ^2/NDF : 1506.9/68

In: -14.583 ± 0.389 χ^2/NDF : 1628.6/55

Out: -13.629 ± 0.380 χ^2/NDF : 1439.8/60

All: -14.095 ± 0.272 χ^2/NDF : 3071.5/116

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.156 ± 0.035 $\chi^2/\text{NDF}: 678471.9/32$

Left Out: -17.333 ± 0.020 $\chi^2/\text{NDF}: 325197.2/24$

Right Out: -1.817 ± 0.034 $\chi^2/\text{NDF}: 672412.7/35$

Left In: -17.491 ± 0.021 $\chi^2/\text{NDF}: 259215.8/22$

Left: -17.411 ± 0.015 $\chi^2/\text{NDF}: 584442.6/47$

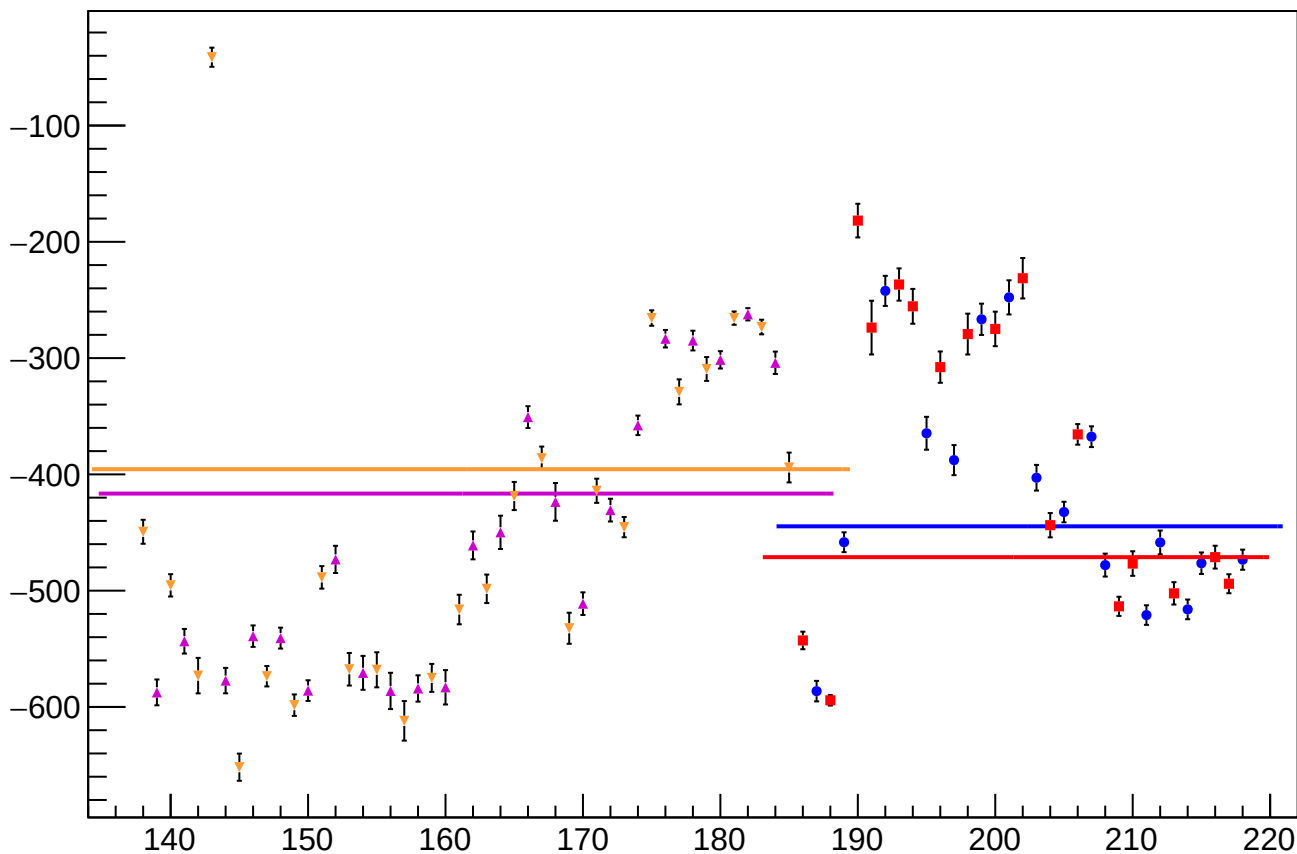
Right: -1.003 ± 0.025 $\chi^2/\text{NDF}: 1352020.6/68$

In: -13.041 ± 0.018 $\chi^2/\text{NDF}: 1118135.2/55$

Out: -13.309 ± 0.018 $\chi^2/\text{NDF}: 1147636.7/60$

All: -13.177 ± 0.013 $\chi^2/\text{NDF}: 2265886.2/116$

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



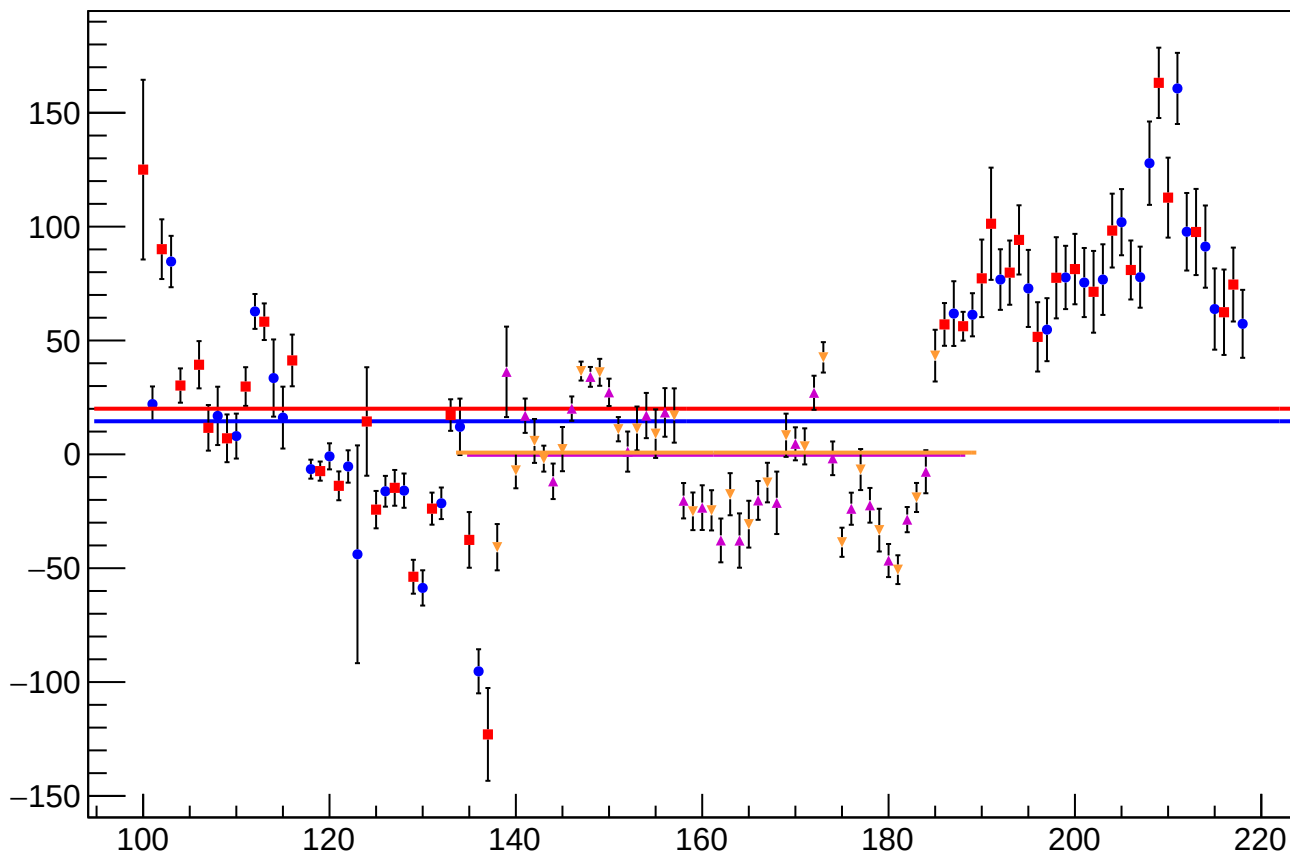
Left: -405.762 +/- 1.399 χ^2/NDF : 9919.7/47
 Right: -458.769 +/- 1.710 χ^2/NDF : 3884.8/32

Right In: -444.660 +/- 2.500 χ^2/NDF : 1190.9/15
 Left Out: -395.547 +/- 1.953 χ^2/NDF : 5946.5/24
 Right Out: -471.183 +/- 2.345 χ^2/NDF : 2634.0/16
 Left In: -416.521 +/- 2.005 χ^2/NDF : 3917.0/22

In: -427.536 +/- 1.564 χ^2/NDF : 5185.0/38
 Out: -426.537 +/- 1.501 χ^2/NDF : 9194.8/41

All: -427.016 +/- 1.083 χ^2/NDF : 14380.0/80

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.527 $\pm$ 1.702 χ^2/NDF : 777.7/32

Left Out: 0.767 $\pm$ 1.503 χ^2/NDF :350.1/24

Right Out: 20.050 $\pm$ 1.657 χ^2/NDF : 742.5/35

Left In: -0.202 $\pm$ 1.575 χ^2/NDF :260.8/22

Left: 0.305 $\pm$ 1.087 χ^2/NDF : 611.1/47

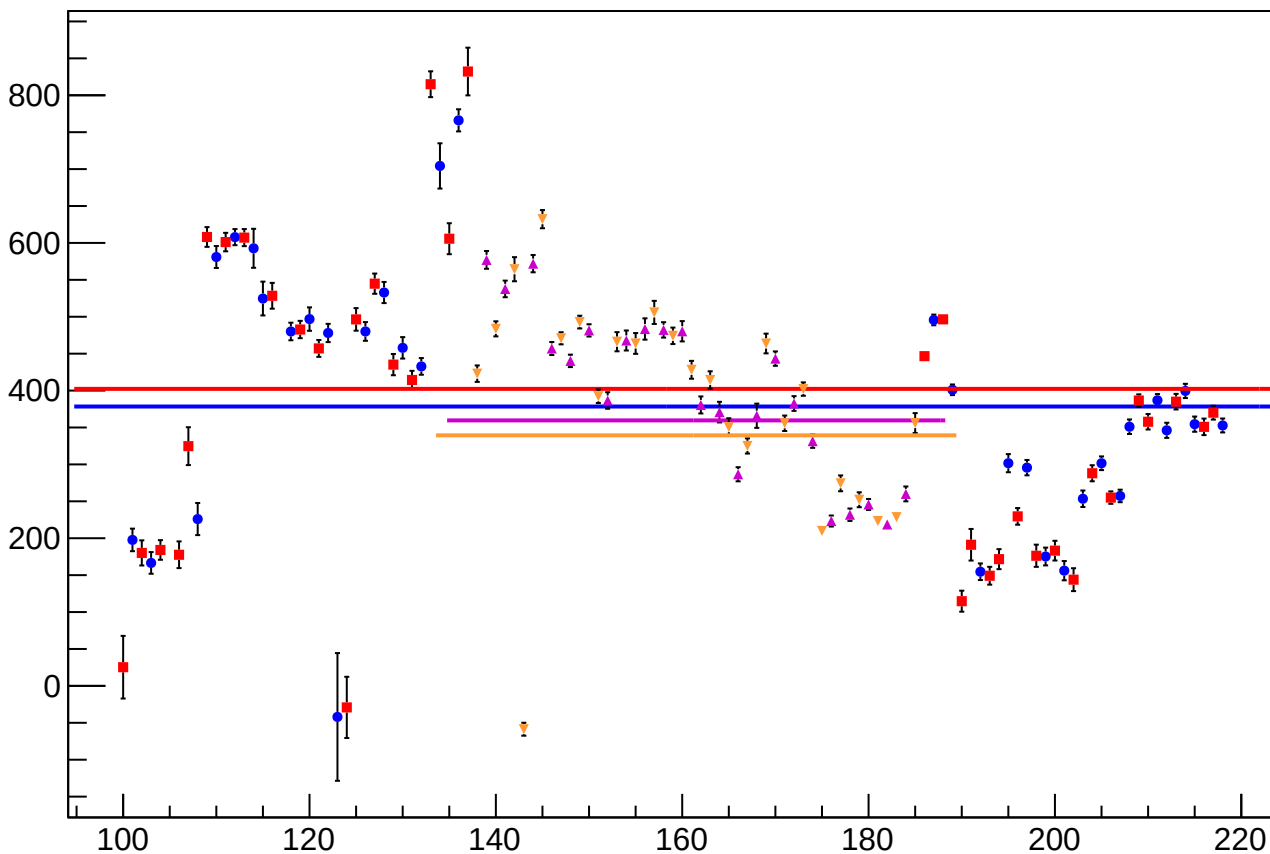
Right: 17.363 $\pm$ 1.187 χ^2/NDF : 1525.7/68

In: 6.592 $\pm$ 1.156 χ^2/NDF :1078.9/55

Out: 9.470 $\pm$ 1.113 χ^2/NDF :1166.9/60

All: 8.086 $\pm$ 0.802 χ^2/NDF : 2249.0/116

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 378.410 $\pm$ 2.009 χ^2 /NDF: 4142.8/32

Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF:5502.5/24

Right Out: 402.323 $\pm$ 1.826 χ^2 /NDF: 6144.5/35

Left In: 359.609 $\pm$ 2.003 χ^2 /NDF:3398.5/22

Left: 349.278 $\pm$ 1.402 χ^2 /NDF: 8953.2/47

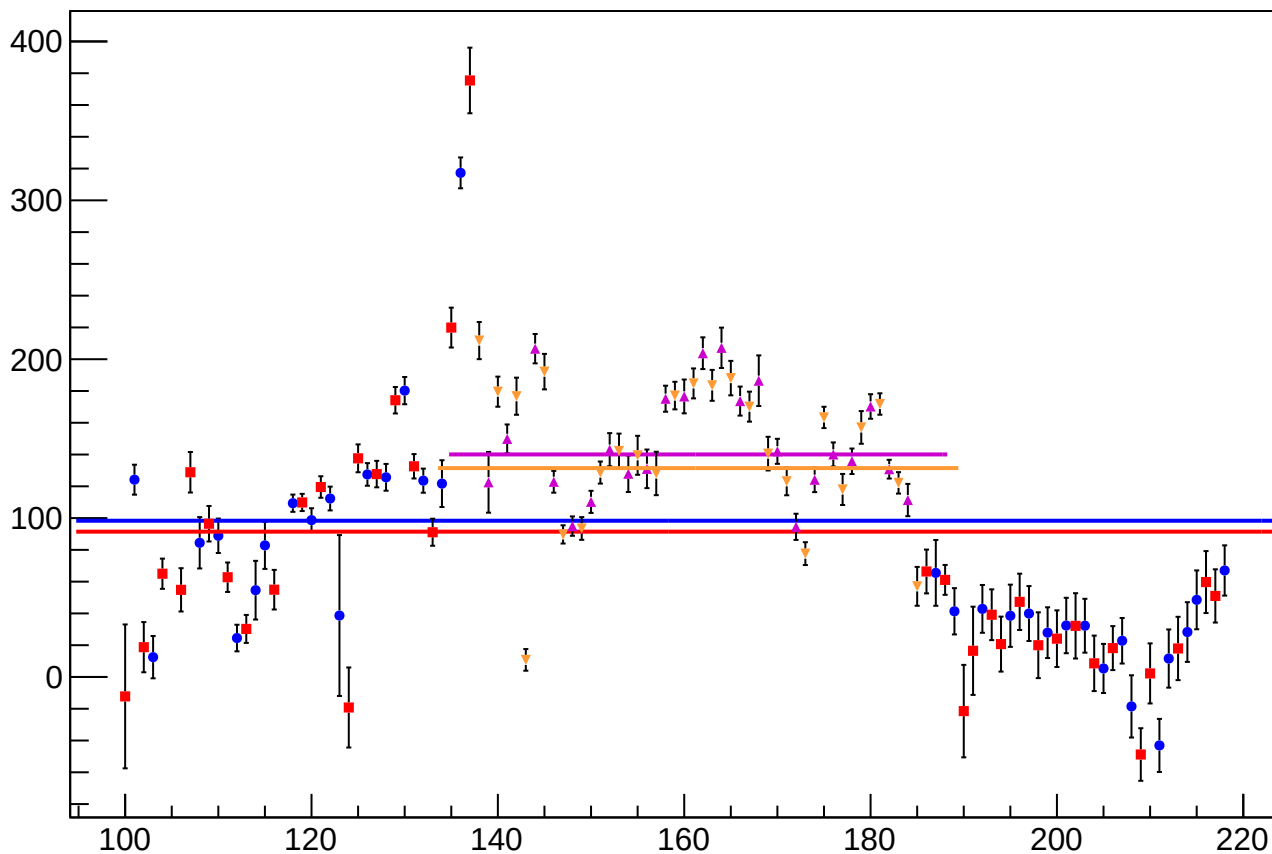
Right: 391.503 $\pm$ 1.351 χ^2 /NDF: 10364.9/68

In: 368.980 $\pm$ 1.418 χ^2 /NDF:7585.3/55

Out: 373.100 $\pm$ 1.337 χ^2 /NDF:12198.6/60

All: 371.161 $\pm$ 0.973 χ^2 /NDF: 19788.4/116

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 98.336+/-1.972 χ^2/NDF : 1102.8/32

Left Out: 131.464+/-1.728 χ^2/NDF : 809.3/24

Right Out: 91.463+/-1.939 χ^2/NDF : 903.7/35

Left In: 140.069+/-1.795 χ^2/NDF : 316.5/22

Left: 135.602+/-1.245 χ^2/NDF : 1137.8/47

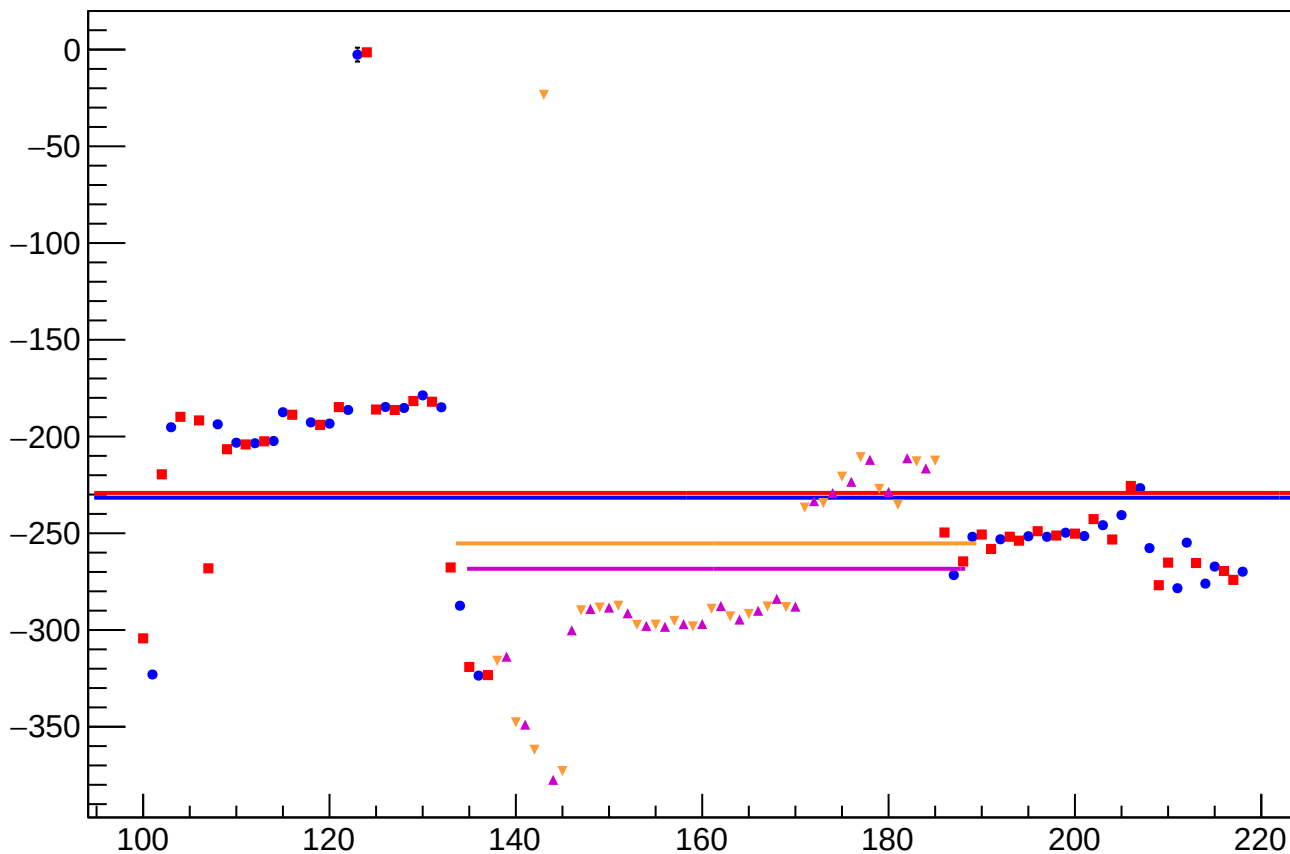
Right: 94.842+/-1.383 χ^2/NDF : 2012.7/68

In: 121.161+/-1.328 χ^2/NDF : 1664.3/55

Out: 113.766+/-1.290 χ^2/NDF : 1950.2/60

All: 117.358+/-0.925 χ^2/NDF : 3630.4/116

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -231.620 ± 0.105 $\chi^2/\text{NDF}: 178479.4/32$

Left Out: -255.232 ± 0.082 $\chi^2/\text{NDF}: 728016.7/24$

Right Out: -229.139 ± 0.100 $\chi^2/\text{NDF}: 159998.6/35$

Left In: -268.353 ± 0.084 $\chi^2/\text{NDF}: 262479.3/22$

Left: -261.661 ± 0.059 $\chi^2/\text{NDF}: 1003051.2/47$

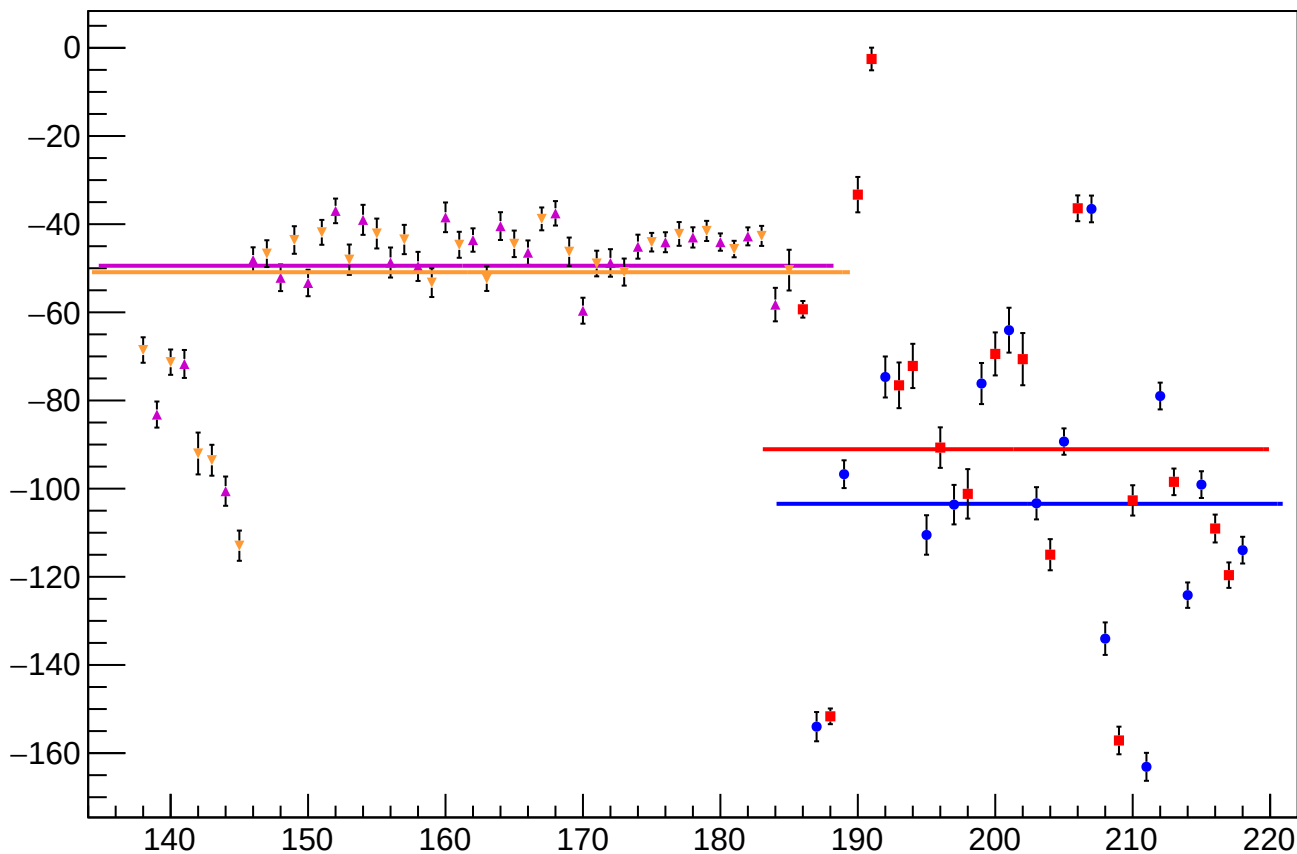
Right: -230.328 ± 0.072 $\chi^2/\text{NDF}: 338770.9/68$

In: -254.028 ± 0.065 $\chi^2/\text{NDF}: 516205.5/55$

Out: -244.794 ± 0.063 $\chi^2/\text{NDF}: 928557.8/60$

All: -249.281 ± 0.046 $\chi^2/\text{NDF}: 1455040.6/111$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -103.439 ± 0.865 $\chi^2/\text{NDF}: 1434.6/15$

Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$

Right Out: -91.058 ± 0.756 $\chi^2/\text{NDF}: 3880.3/16$

Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$

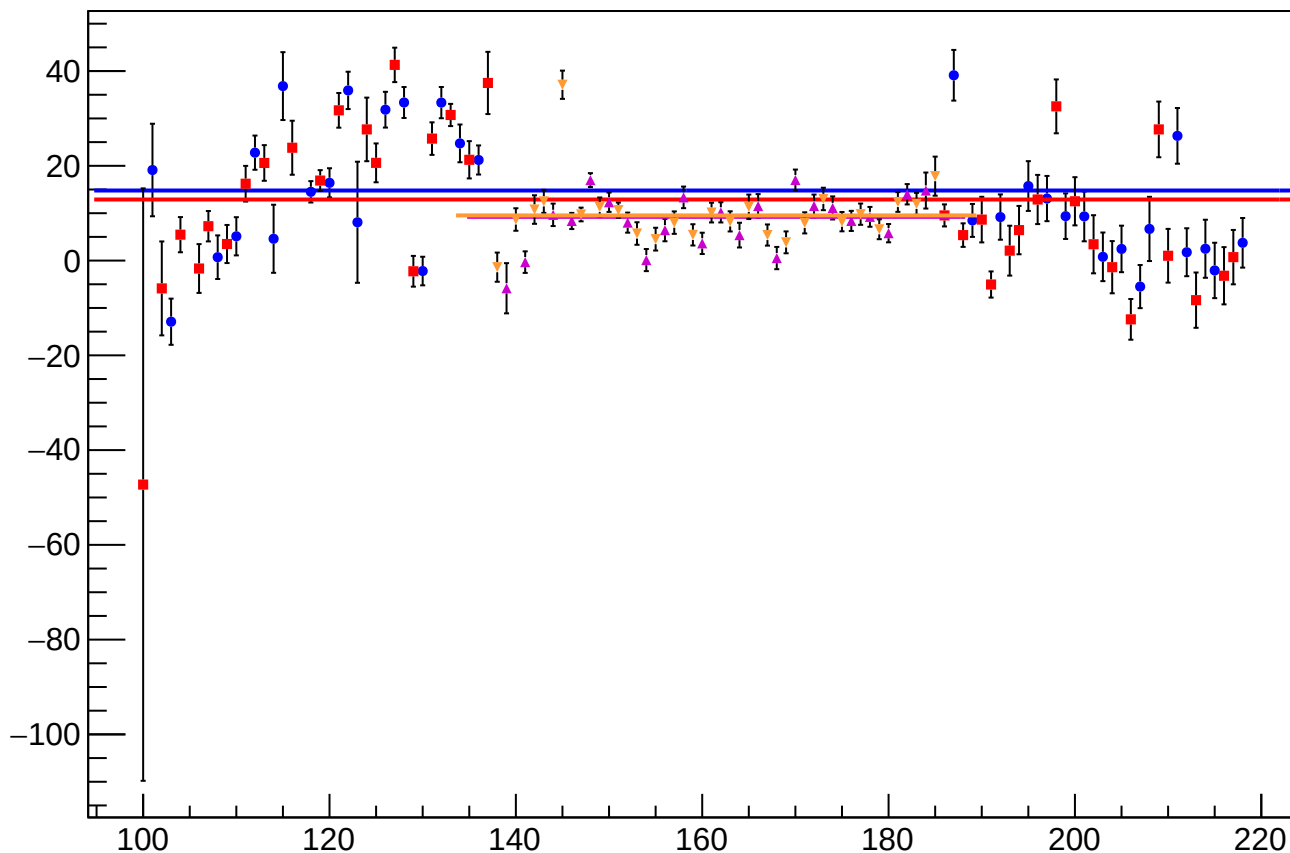
Right: -96.420 ± 0.569 $\chi^2/\text{NDF}: 5431.0/32$

In: -66.341 ± 0.484 $\chi^2/\text{NDF}: 4656.4/38$

Out: -65.544 ± 0.457 $\chi^2/\text{NDF}: 6434.4/41$

All: -65.919 ± 0.332 $\chi^2/\text{NDF}: 11092.2/80$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.791 $\pm$ 0.742 χ^2 /NDF: 310.2/32

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 12.890 $\pm$ 0.659 χ^2 /NDF: 396.6/35

Left In: 9.231 $\pm$ 0.462 χ^2 /NDF:124.0/22

Left: 9.386 $\pm$ 0.321 χ^2 /NDF: 258.5/47

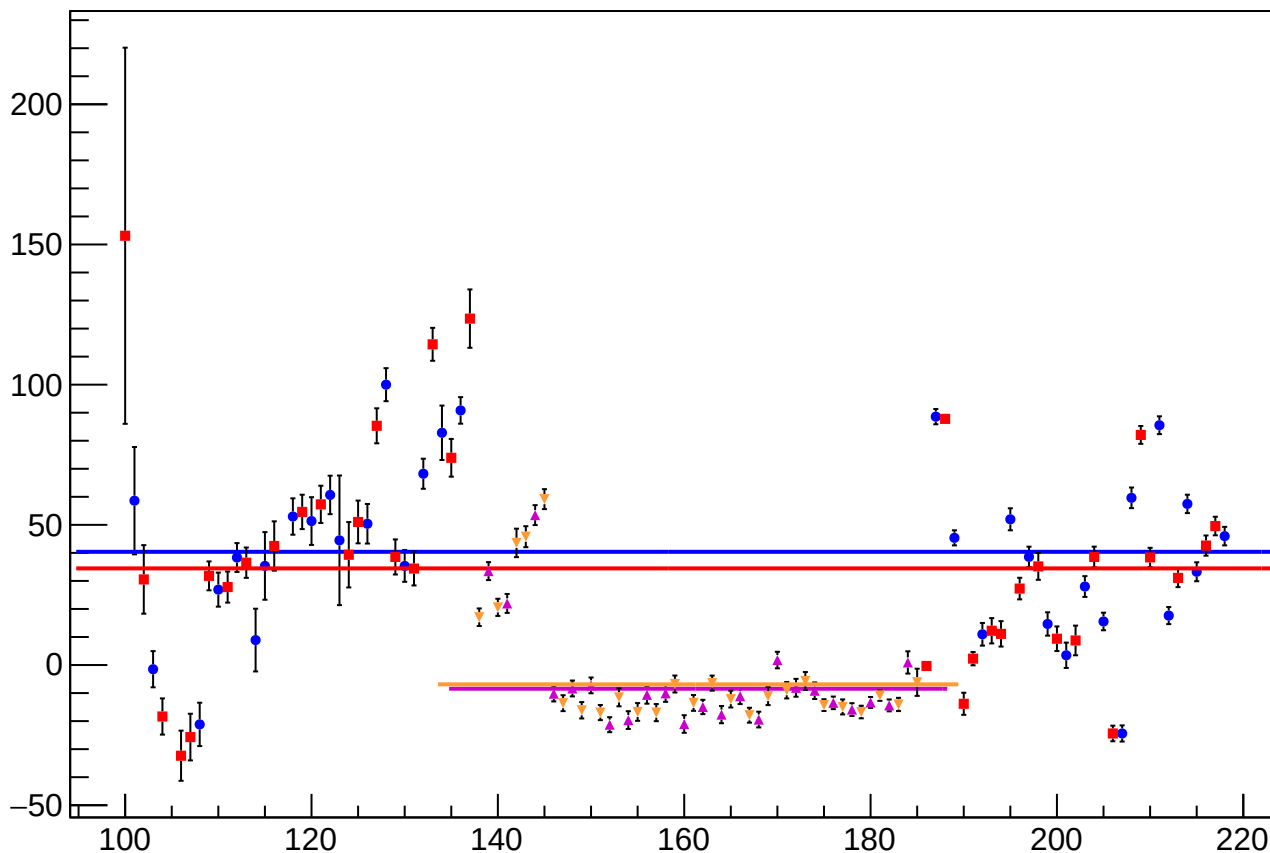
Right: 13.728 $\pm$ 0.493 χ^2 /NDF: 710.5/68

In: 10.783 $\pm$ 0.392 χ^2 /NDF:474.6/55

Out: 10.586 $\pm$ 0.369 χ^2 /NDF:548.8/60

All: 10.678 $\pm$ 0.269 χ^2 /NDF: 1023.6/116

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 40.384+/-0.749 χ^2/NDF : 1780.7/32

Left Out: -6.888+/-0.571 χ^2/NDF : 914.2/24

Right Out: 34.472+/-0.633 χ^2/NDF : 3624.4/35

Left In: -8.451+/-0.580 χ^2/NDF : 688.9/22

Left: -7.658+/-0.407 χ^2/NDF : 1606.8/47

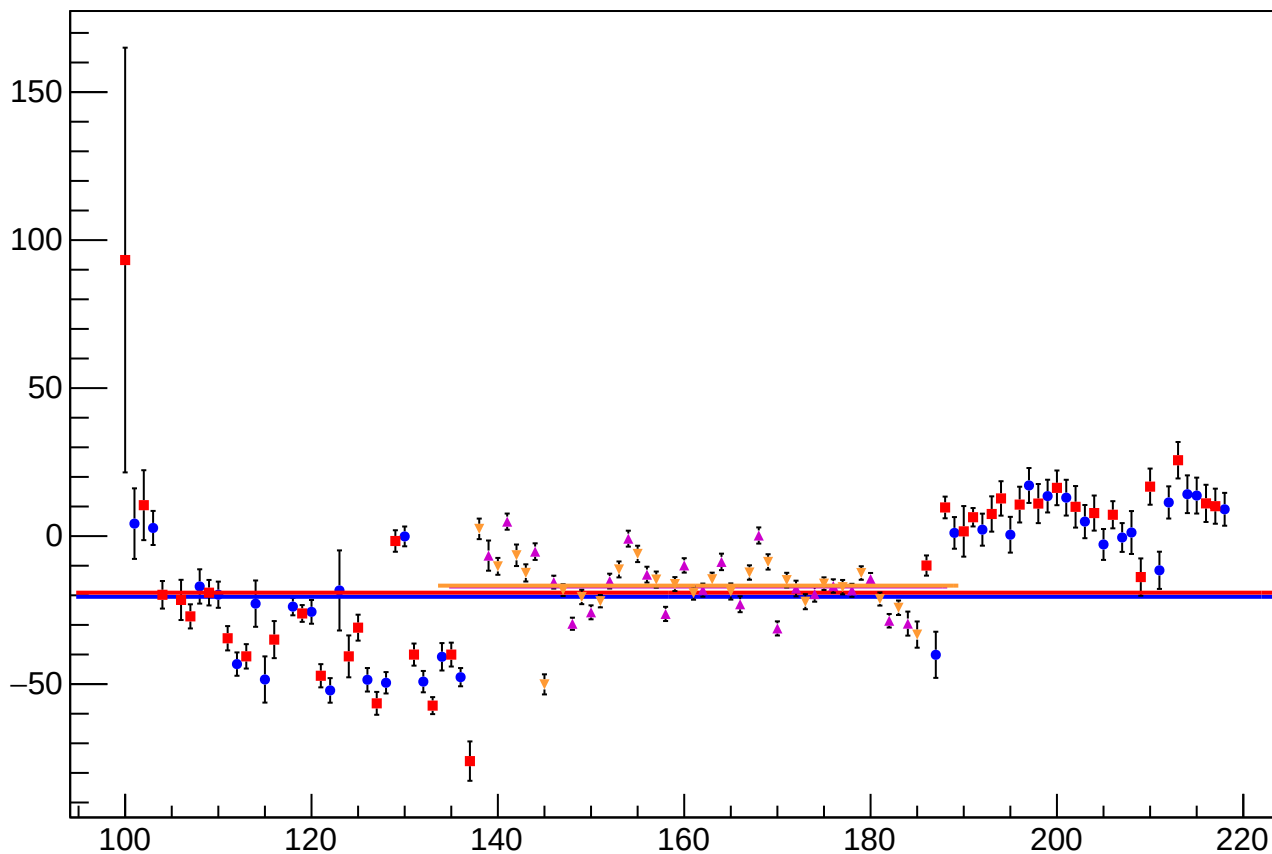
Right: 36.935+/-0.483 χ^2/NDF : 5441.5/68

In: 9.853+/-0.458 χ^2/NDF : 5128.5/55

Out: 11.674+/-0.424 χ^2/NDF : 6893.5/60

All: 10.835+/-0.311 χ^2/NDF : 12030.5/116

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -20.502 ± 0.848 $\chi^2/\text{NDF}: 785.2/32$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -19.108 ± 0.777 $\chi^2/\text{NDF}: 1038.1/35$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

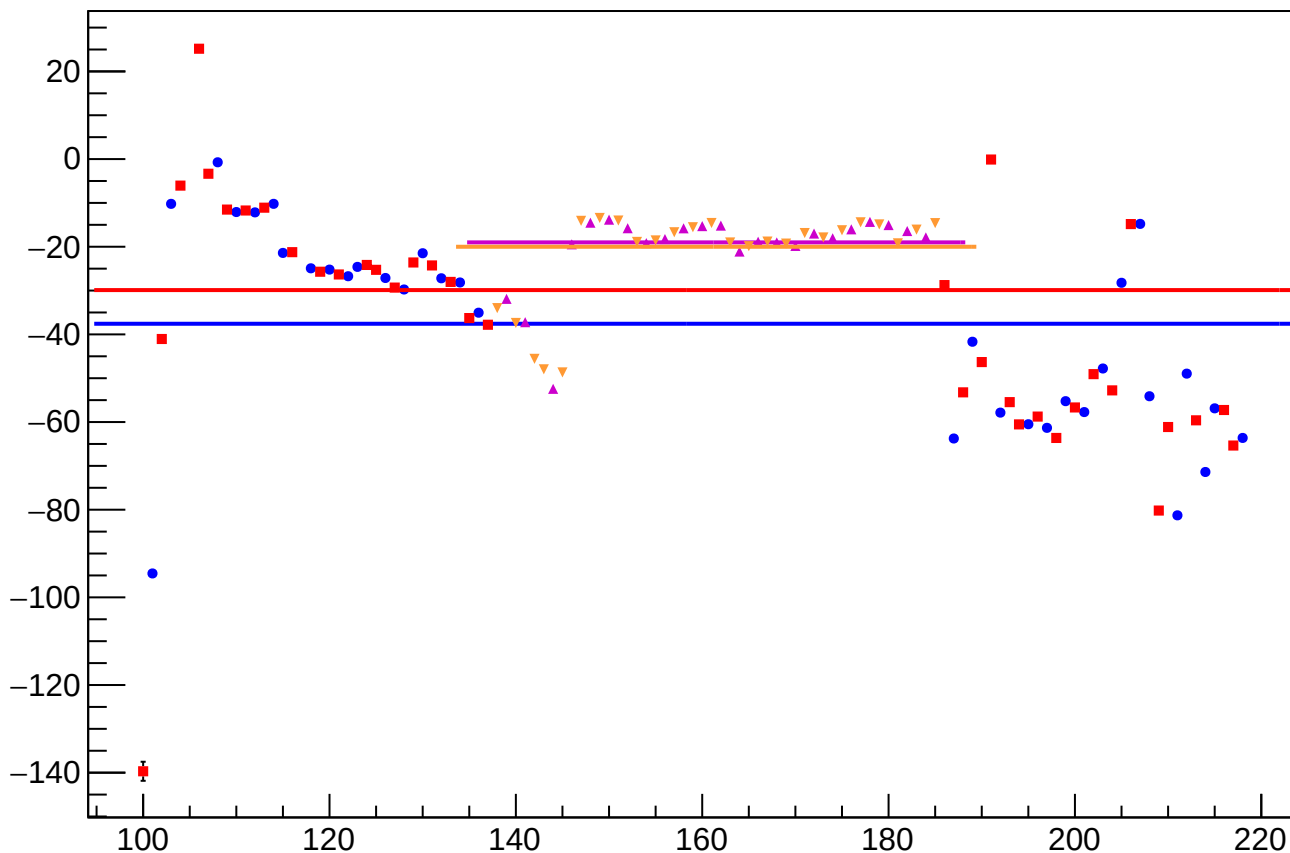
Right: -19.744 ± 0.573 $\chi^2/\text{NDF}: 1824.8/68$

In: -17.978 ± 0.444 $\chi^2/\text{NDF}: 1125.0/55$

Out: -17.442 ± 0.424 $\chi^2/\text{NDF}: 1268.0/60$

All: -17.698 ± 0.307 $\chi^2/\text{NDF}: 2393.8/116$

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -37.574 ± 0.040 $\chi^2/\text{NDF}: 265874.1/32$

Left Out: -20.006 ± 0.023 $\chi^2/\text{NDF}: 145623.8/24$

Right Out: -29.892 ± 0.036 $\chi^2/\text{NDF}: 485899.5/35$

Left In: -19.007 ± 0.024 $\chi^2/\text{NDF}: 90873.3/22$

Left: -19.514 ± 0.017 $\chi^2/\text{NDF}: 237400.2/47$

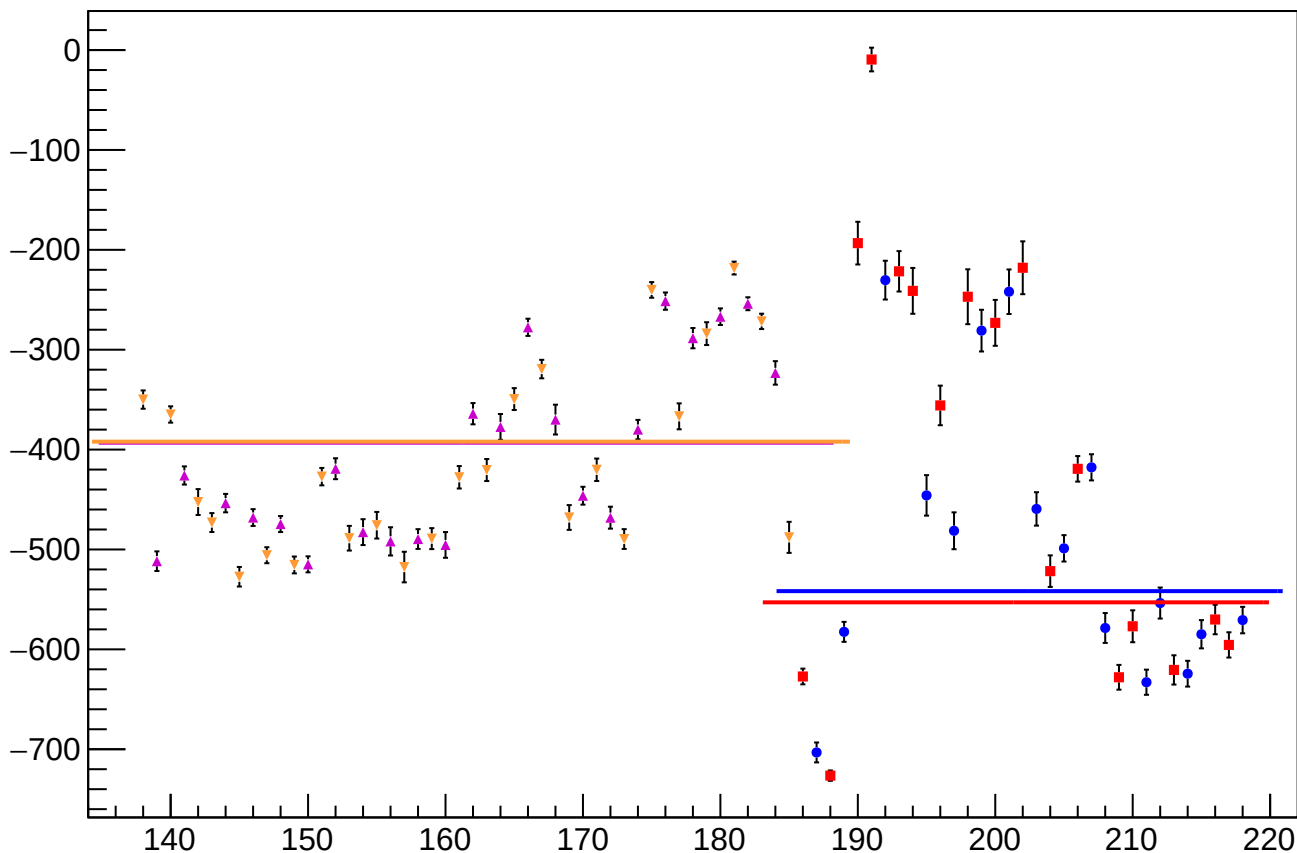
Right: -33.273 ± 0.027 $\chi^2/\text{NDF}: 772067.1/68$

In: -23.762 ± 0.020 $\chi^2/\text{NDF}: 514258.1/55$

Out: -22.949 ± 0.020 $\chi^2/\text{NDF}: 685138.2/60$

All: -23.337 ± 0.014 $\chi^2/\text{NDF}: 1200223.3/116$

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -541.712+/-3.555 χ^2/NDF : 1144.8/15

Left Out: -392.054+/-1.967 χ^2/NDF : 2717.2/24

Right Out: -552.938+/-3.011 χ^2/NDF : 4766.2/16

Left In: -393.113+/-2.006 χ^2/NDF : 2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47

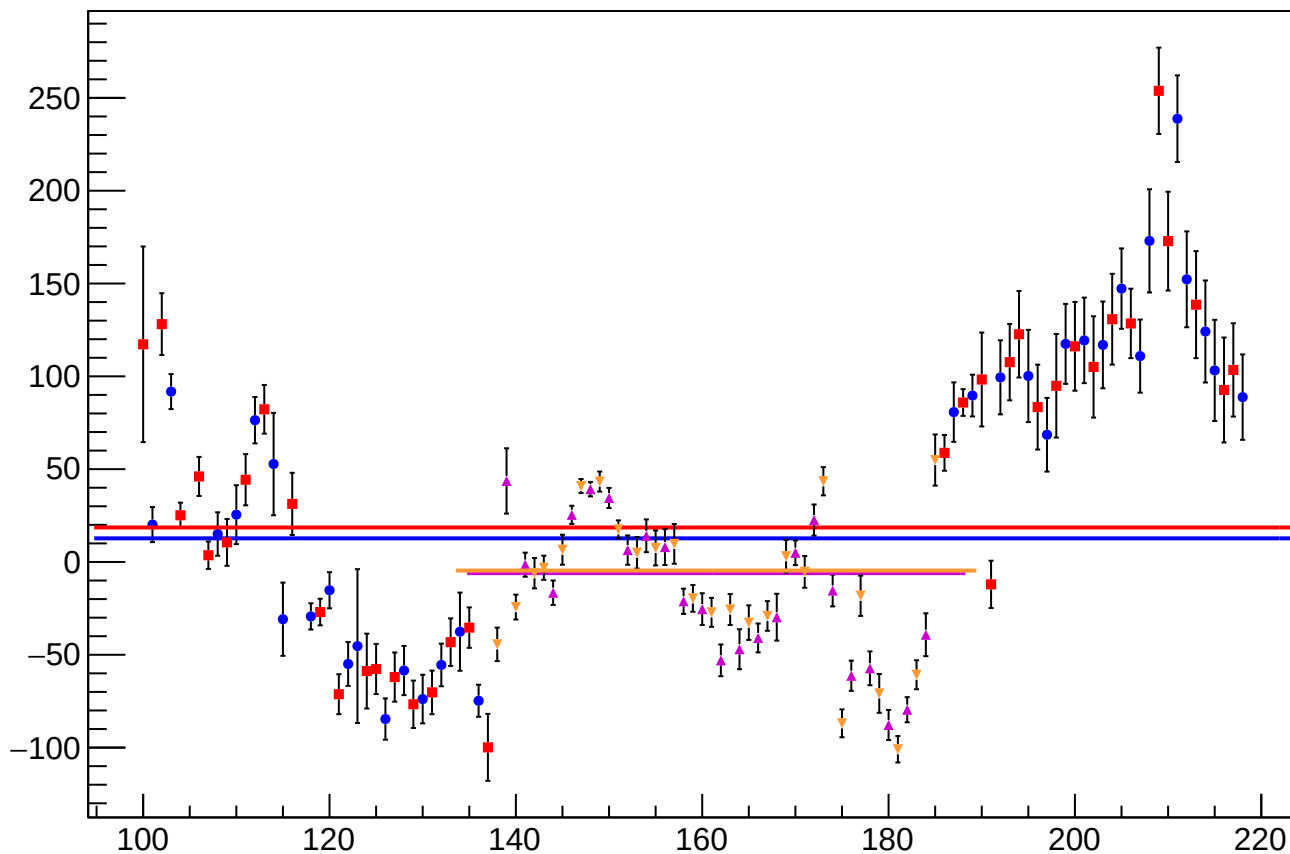
Right: -548.249+/-2.298 χ^2/NDF : 5916.7/32

In: -428.985+/-1.747 χ^2/NDF : 4723.3/38

Out: -440.166+/-1.646 χ^2/NDF : 9484.8/41

All: -434.906+/-1.198 χ^2/NDF : 14229.8/80

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.725 ± 2.473 $\chi^2/\text{NDF}: 902.8/32$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 18.571 ± 2.199 $\chi^2/\text{NDF}: 913.0/35$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

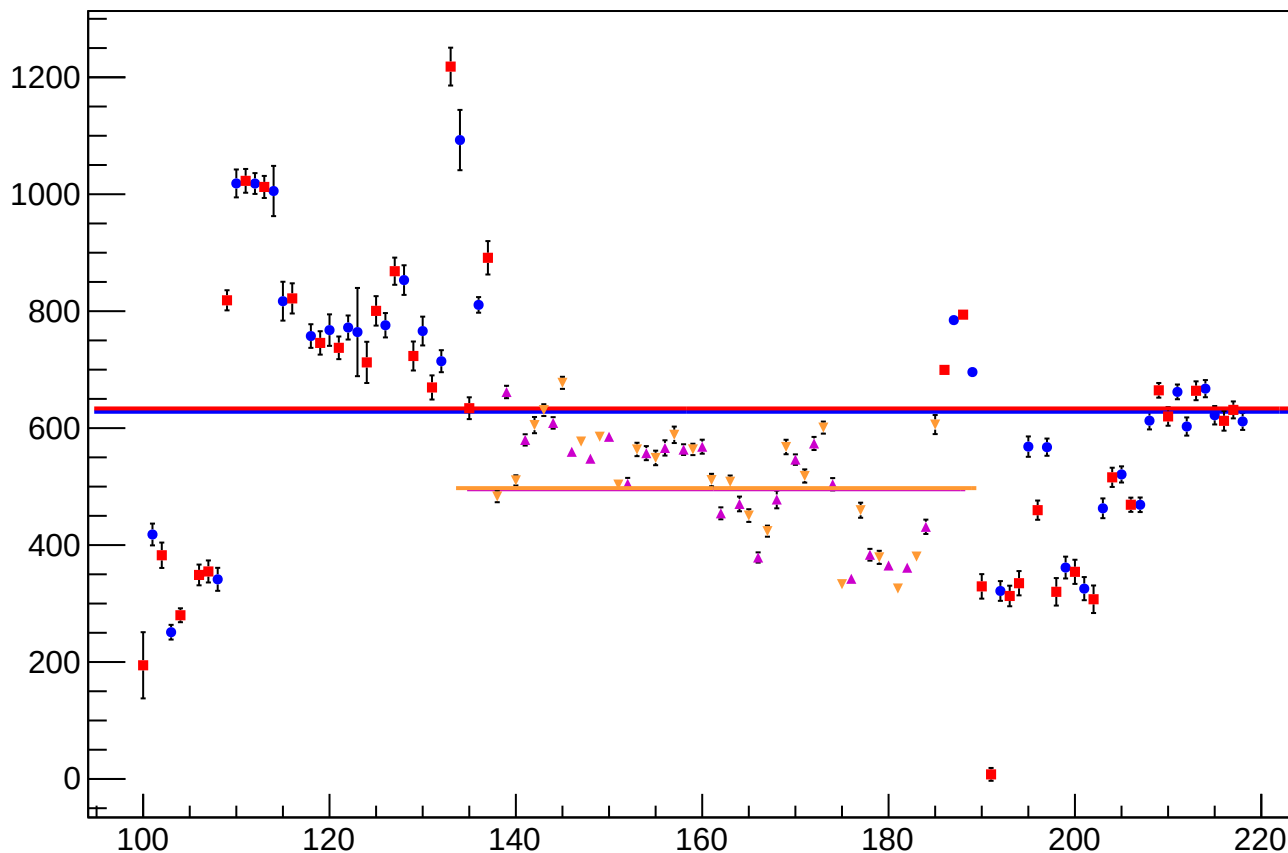
Right: 15.990 ± 1.643 $\chi^2/\text{NDF}: 1818.9/68$

In: -0.898 ± 1.293 $\chi^2/\text{NDF}: 1598.6/55$

Out: 2.487 ± 1.218 $\chi^2/\text{NDF}: 1763.1/60$

All: 0.895 ± 0.886 $\chi^2/\text{NDF}: 3365.3/116$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 627.999+/-2.789 χ^2/NDF : 4231.7/32

Left Out: 497.381+/-1.966 χ^2/NDF : 2614.6/24

Right Out: 633.649+/-2.319 χ^2/NDF : 9634.0/35

Left In: 495.454+/-1.992 χ^2/NDF : 2253.8/22

Left: 496.430+/-1.399 χ^2/NDF : 4868.9/47

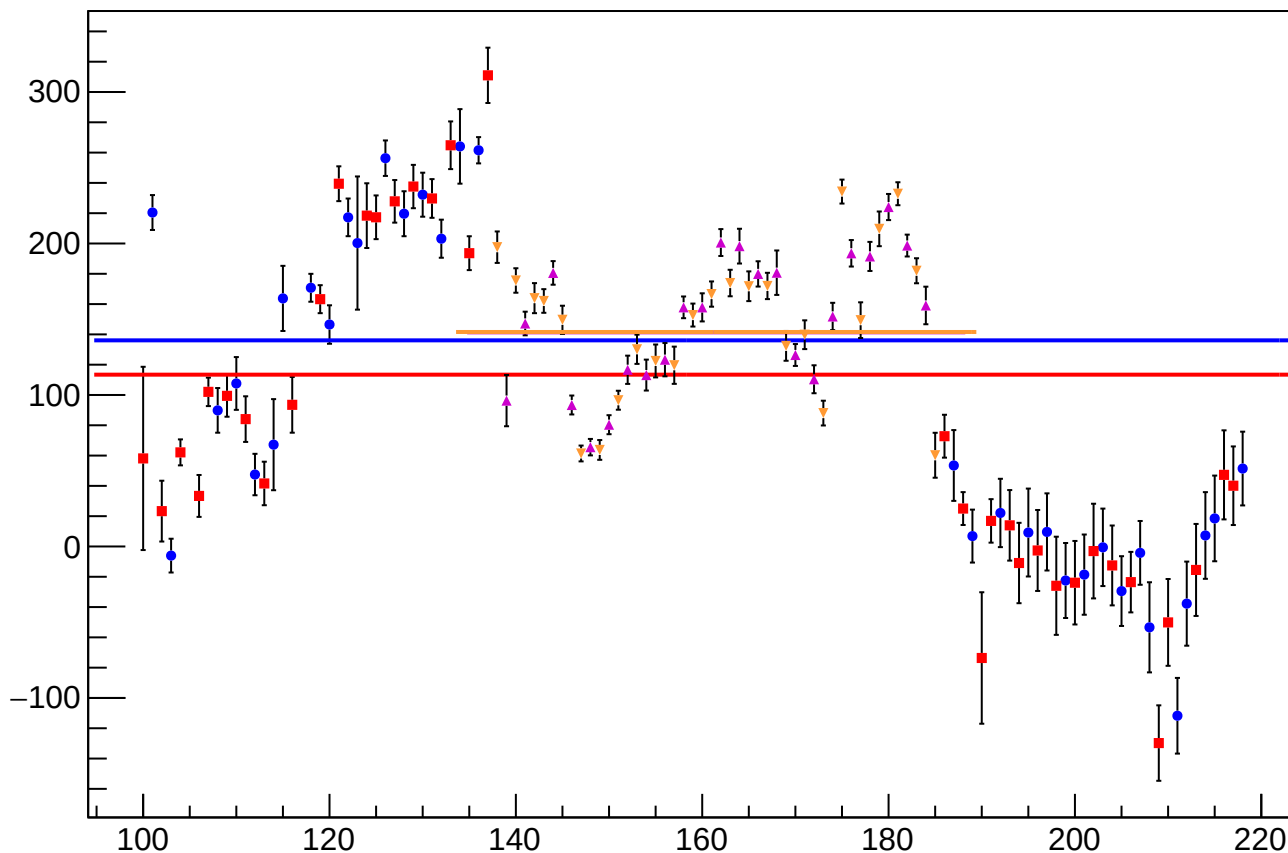
Right: 631.339+/-1.783 χ^2/NDF : 13868.1/68

In: 540.242+/-1.621 χ^2/NDF : 7981.3/55

Out: 554.367+/-1.500 χ^2/NDF : 14257.8/60

All: 547.854+/-1.101 χ^2/NDF : 22280.0/116

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 136.063 ± 2.867 $\chi^2/\text{NDF}: 1347.2/32$

Left Out: 141.588 ± 1.698 $\chi^2/\text{NDF}: 959.6/24$

Right Out: 113.412 ± 2.625 $\chi^2/\text{NDF}: 1317.3/35$

Left In: 141.360 ± 1.748 $\chi^2/\text{NDF}: 741.2/22$

Left: 141.478 ± 1.218 $\chi^2/\text{NDF}: 1700.8/47$

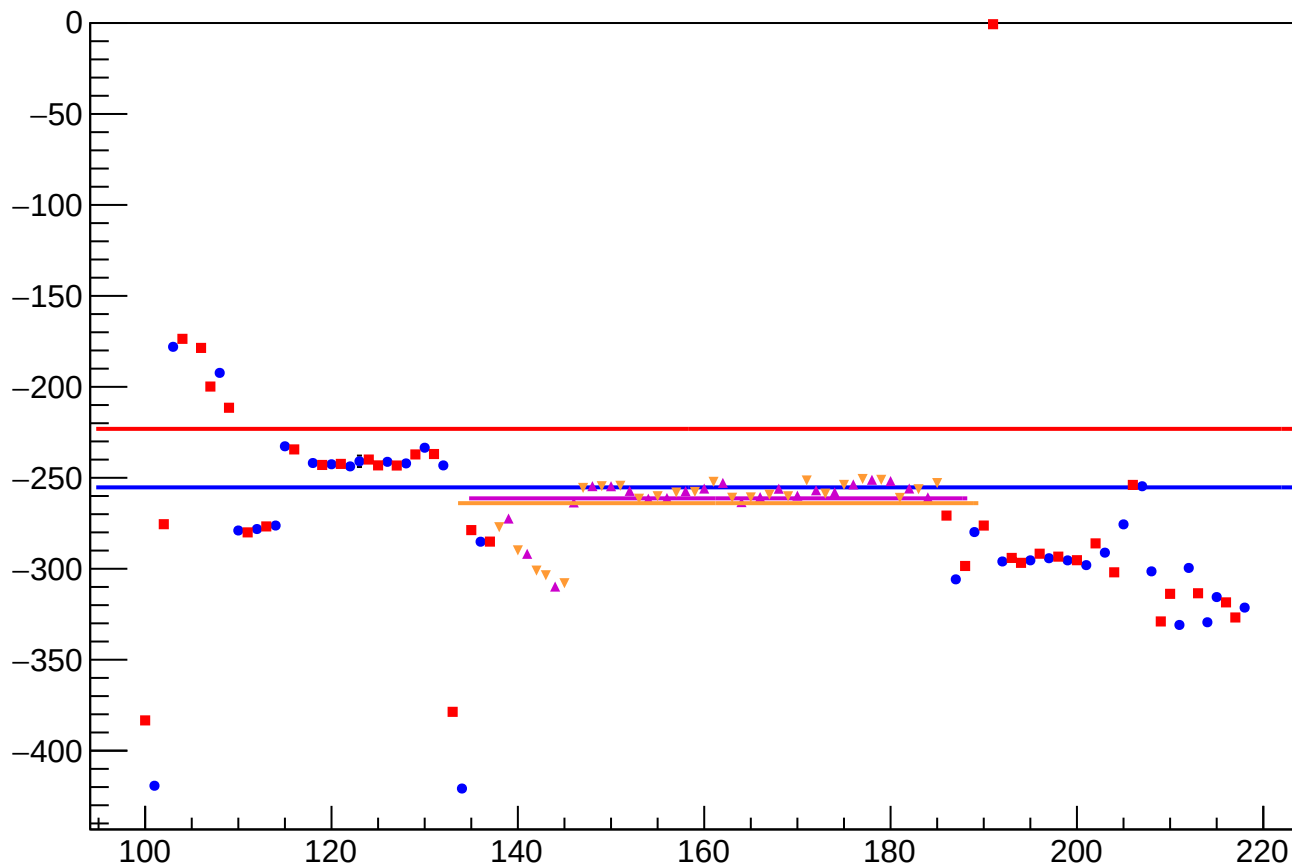
Right: 123.742 ± 1.936 $\chi^2/\text{NDF}: 2698.4/68$

In: 139.925 ± 1.492 $\chi^2/\text{NDF}: 2090.9/55$

Out: 133.274 ± 1.426 $\chi^2/\text{NDF}: 2358.0/60$

All: 136.448 ± 1.031 $\chi^2/\text{NDF}: 4459.3/116$

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -255.256 ± 0.134 $\chi^2/\text{NDF}: 209212.2/32$

Left Out: -263.943 ± 0.081 $\chi^2/\text{NDF}: 39085.0/24$

Right Out: -223.097 ± 0.121 $\chi^2/\text{NDF}: 518307.2/35$

Left In: -261.286 ± 0.082 $\chi^2/\text{NDF}: 23348.4/22$

Left: -262.627 ± 0.058 $\chi^2/\text{NDF}: 62963.4/47$

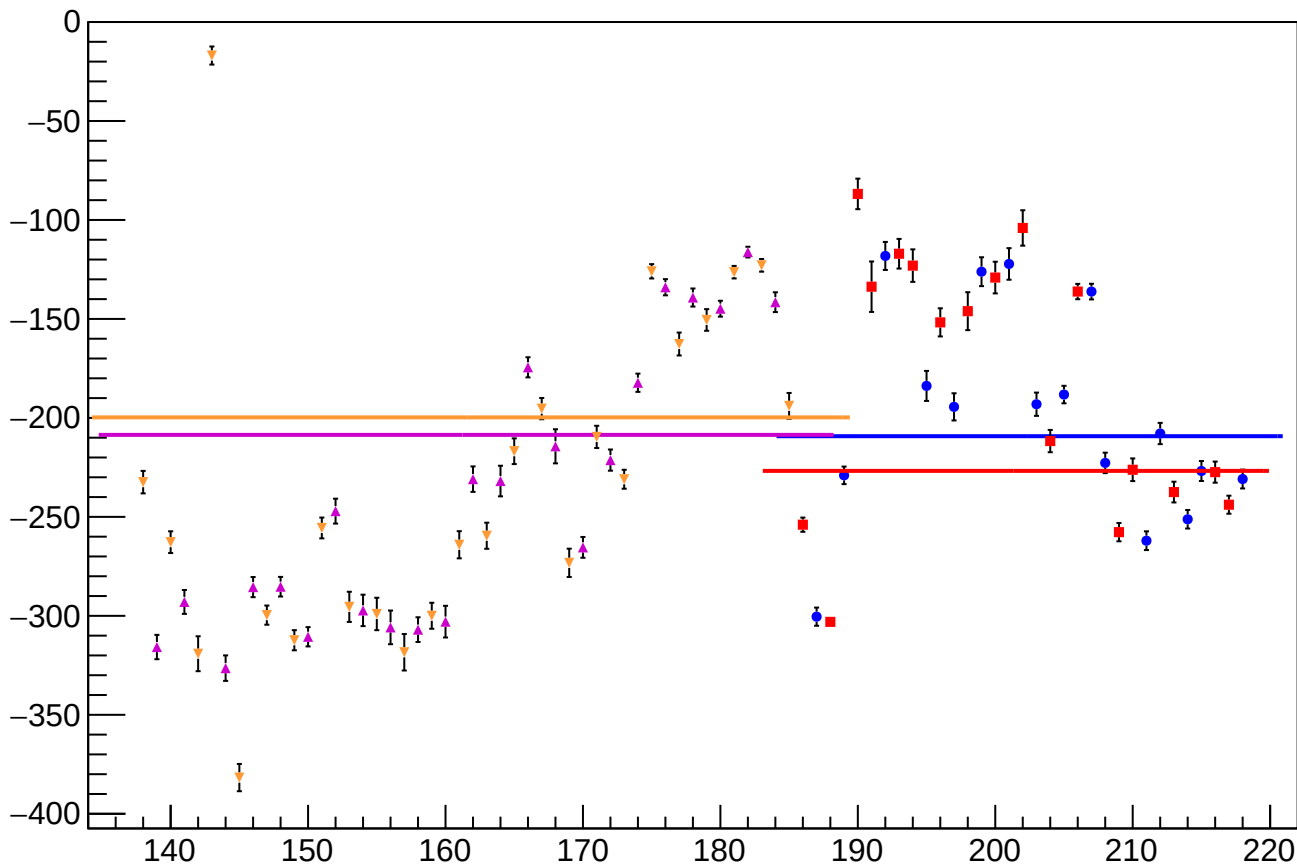
Right: -237.548 ± 0.090 $\chi^2/\text{NDF}: 759381.5/68$

In: -259.639 ± 0.070 $\chi^2/\text{NDF}: 234039.5/55$

Out: -251.217 ± 0.067 $\chi^2/\text{NDF}: 636139.4/60$

All: -255.276 ± 0.049 $\chi^2/\text{NDF}: 877700.9/116$

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -209.243+/-1.311 χ^2/NDF : 1460.5/15

Left Out: -199.741+/-1.061 χ^2/NDF : 6361.5/24

Right Out: -226.764+/-1.226 χ^2/NDF : 2985.7/16

Left In: -208.579+/-1.082 χ^2/NDF : 4805.1/22

Left: -204.073+/-0.758 χ^2/NDF : 11200.6/47

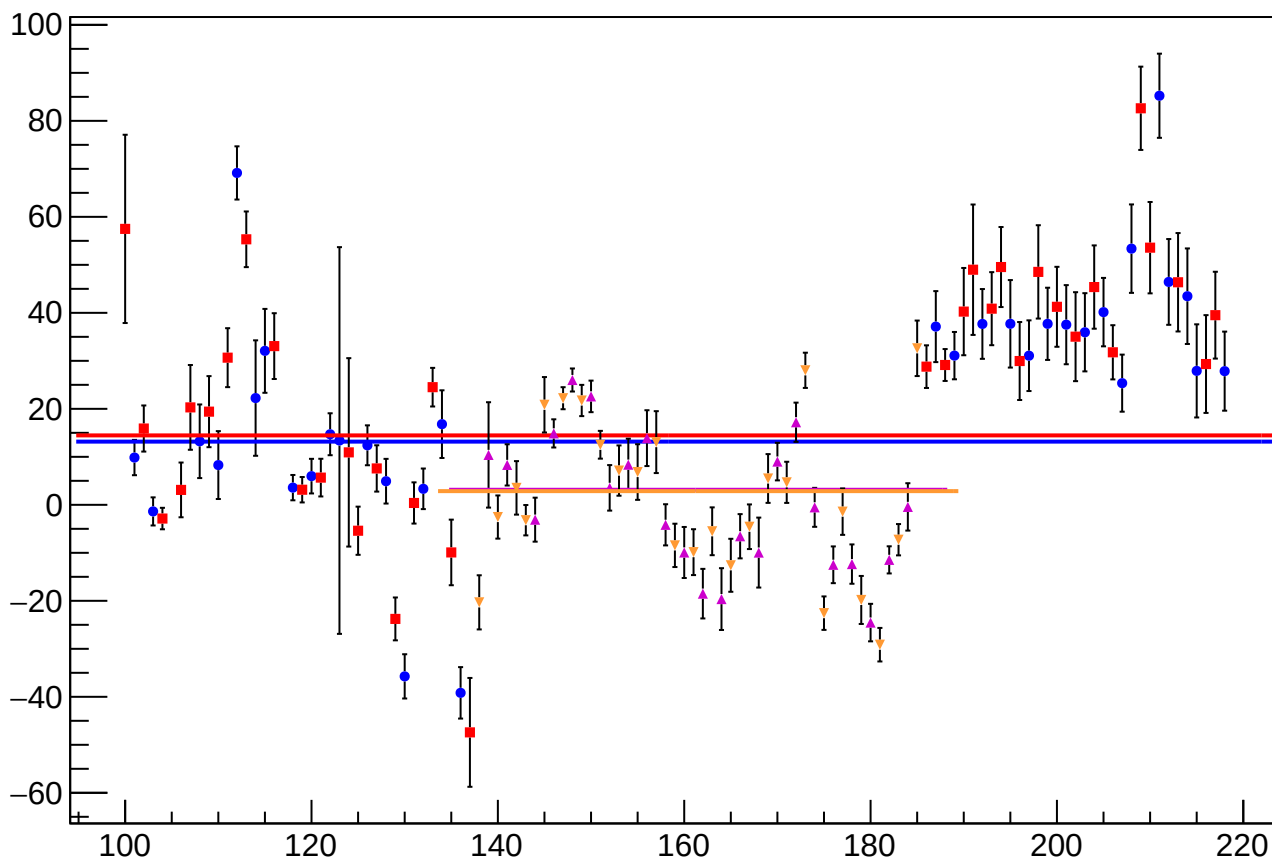
Right: -218.591+/-0.896 χ^2/NDF : 4541.5/32

In: -208.848+/-0.835 χ^2/NDF : 6265.8/38

Out: -211.314+/-0.802 χ^2/NDF : 9625.0/41

All: -210.130+/-0.578 χ^2/NDF : 15895.3/80

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.169 $\pm$ 0.957 χ^2 /NDF: 576.5/32

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF: 419.8/24

Right Out: 14.465 $\pm$ 0.907 χ^2 /NDF: 533.0/35

Left In: 3.136 $\pm$ 0.857 χ^2 /NDF: 319.8/22

Left: 2.988 $\pm$ 0.592 χ^2 /NDF: 739.7/47

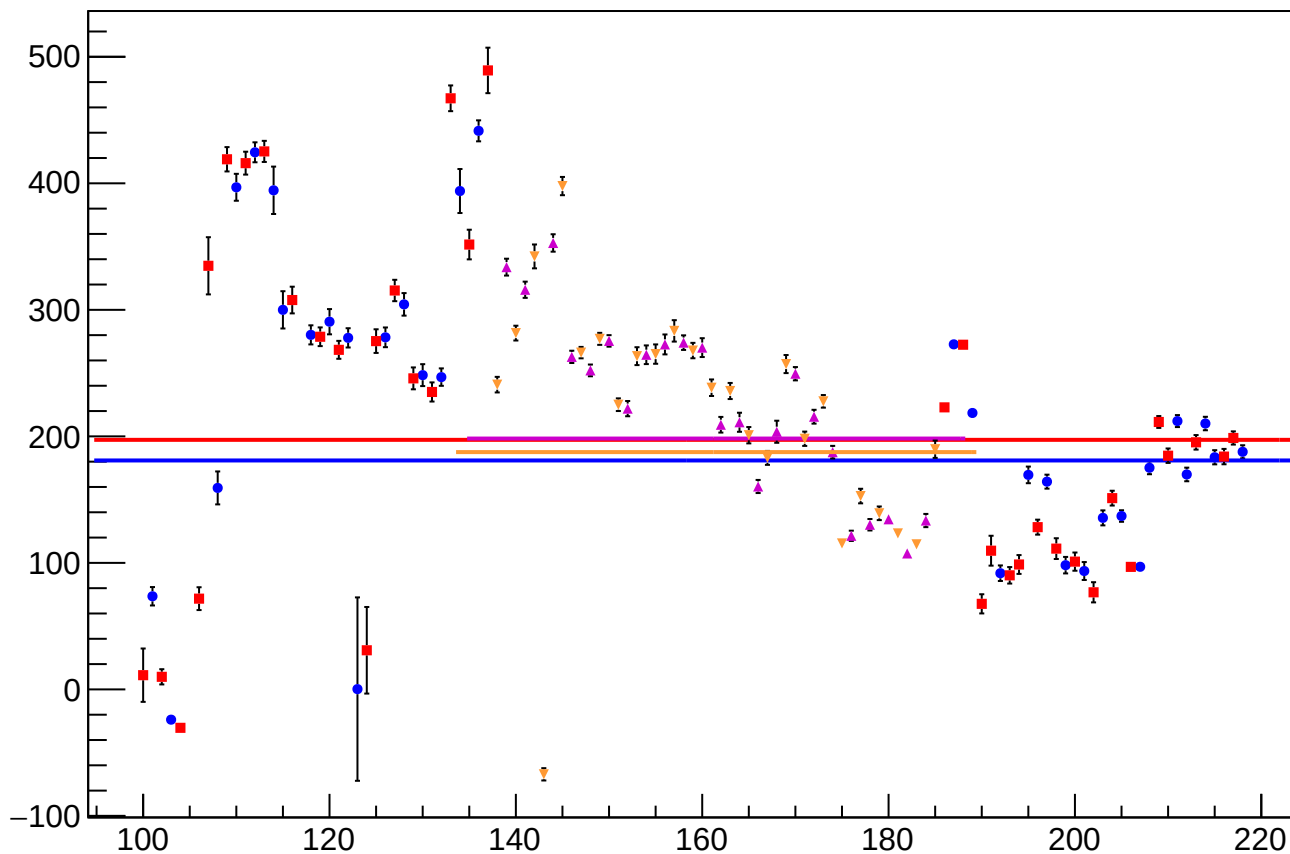
Right: 13.852 $\pm$ 0.658 χ^2 /NDF: 1110.5/68

In: 7.601 $\pm$ 0.638 χ^2 /NDF: 957.3/55

Out: 8.076 $\pm$ 0.608 χ^2 /NDF: 1043.1/60

All: 7.850 $\pm$ 0.440 χ^2 /NDF: 2000.7/116

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 180.949 $\pm$ 1.060 χ^2 /NDF: 8771.9/32

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 197.245 $\pm$ 0.961 χ^2 /NDF: 12149.8/35

Left In: 198.269 $\pm$ 1.082 χ^2 /NDF: 4515.8/22

Left: 192.839 $\pm$ 0.759 χ^2 /NDF: 11647.5/47

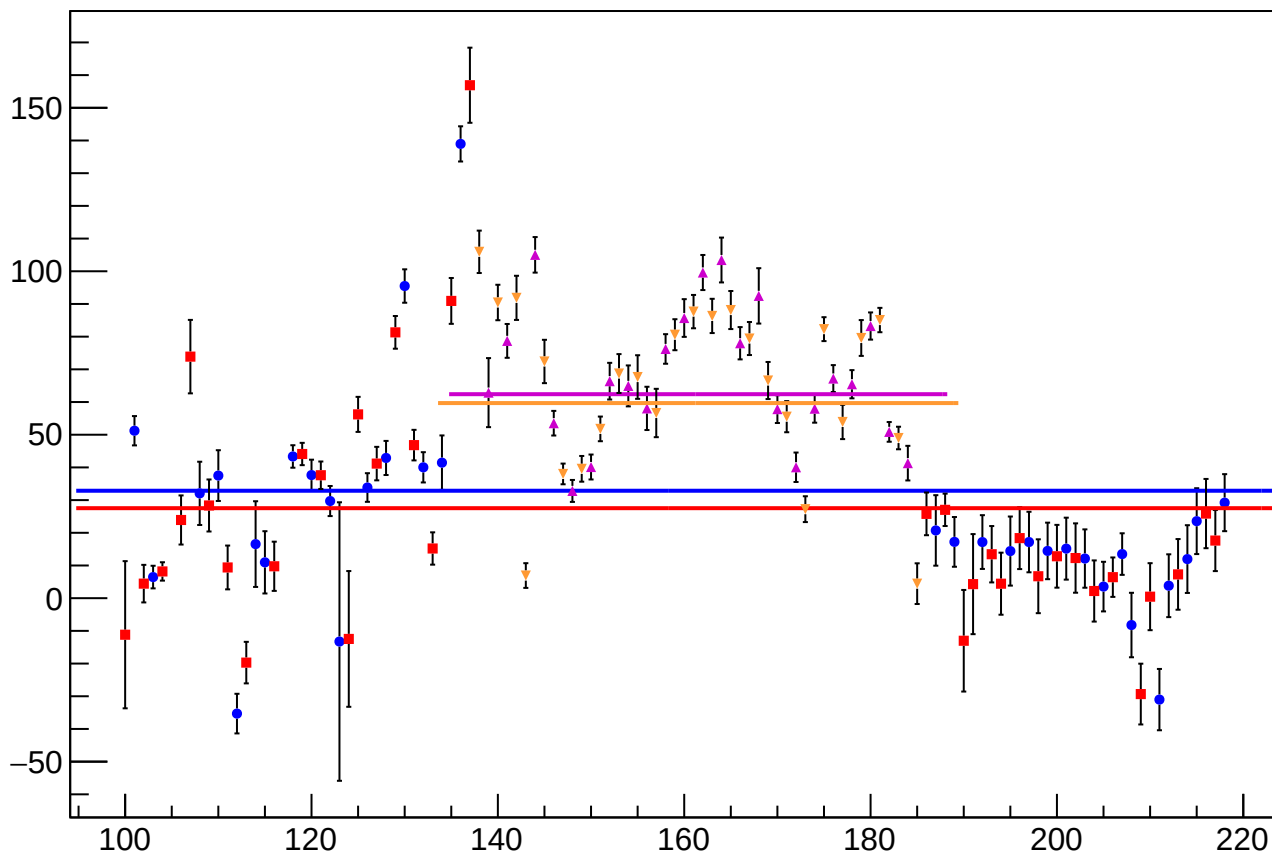
Right: 189.899 $\pm$ 0.712 χ^2 /NDF: 21051.4/68

In: 189.436 $\pm$ 0.757 χ^2 /NDF: 13418.4/55

Out: 192.907 $\pm$ 0.714 χ^2 /NDF: 19277.3/60

All: 191.274 $\pm$ 0.519 χ^2 /NDF: 32706.9/116

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.865 $\pm$ 1.111 χ^2 /NDF: 897.3/32

Left Out: 59.682 $\pm$ 0.941 χ^2 /NDF: 757.6/24

Right Out: 27.530 $\pm$ 1.077 χ^2 /NDF: 663.3/35

Left In: 62.400 $\pm$ 0.974 χ^2 /NDF: 406.3/22

Left: 60.993 $\pm$ 0.677 χ^2 /NDF: 1167.9/47

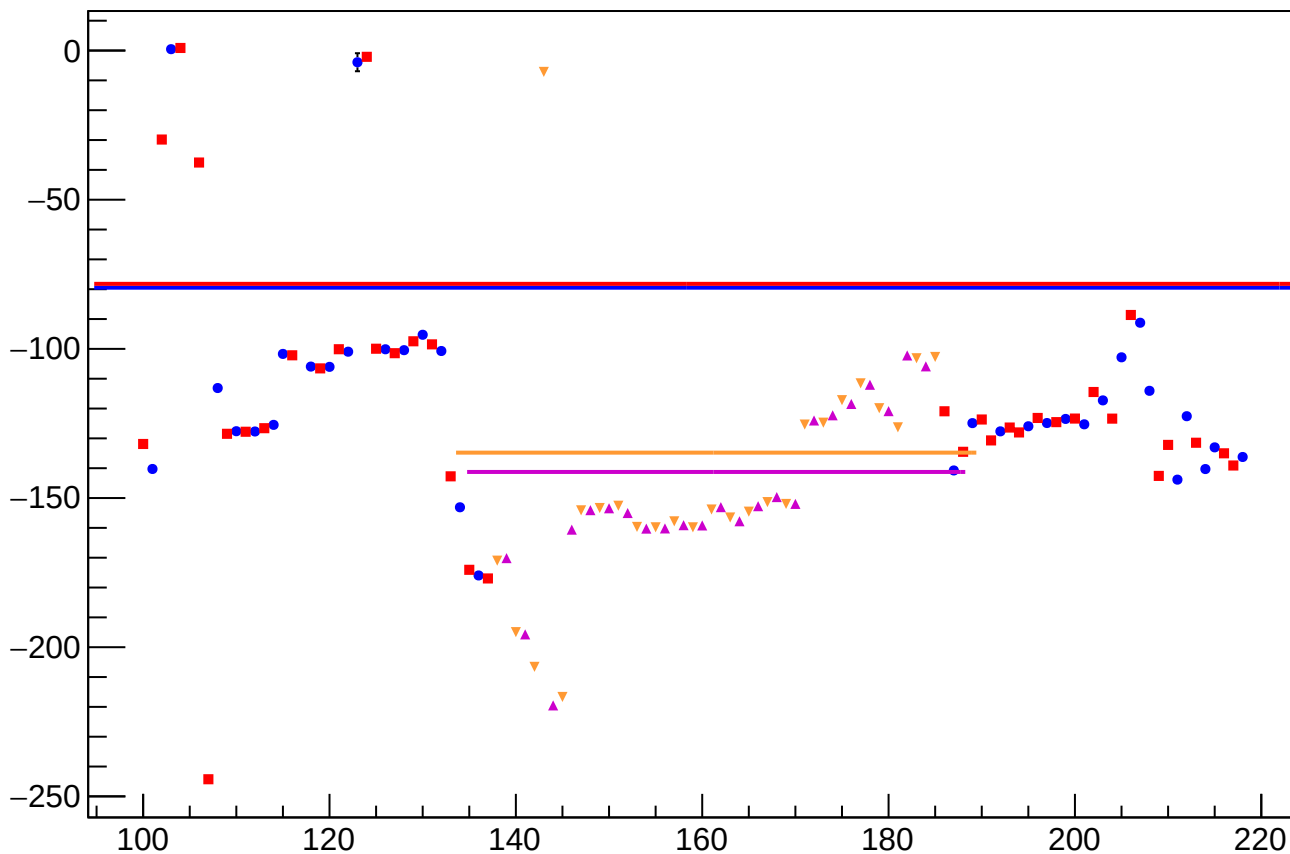
Right: 30.114 $\pm$ 0.773 χ^2 /NDF: 1572.5/68

In: 49.561 $\pm$ 0.732 χ^2 /NDF: 1703.2/55

Out: 45.765 $\pm$ 0.708 χ^2 /NDF: 1926.6/60

All: 47.600 $\pm$ 0.509 χ^2 /NDF: 3643.6/116

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -79.486 ± 0.050 $\chi^2/\text{NDF}: 1482868.5/32$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -78.200 ± 0.049 $\chi^2/\text{NDF}: 1464441.1/35$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

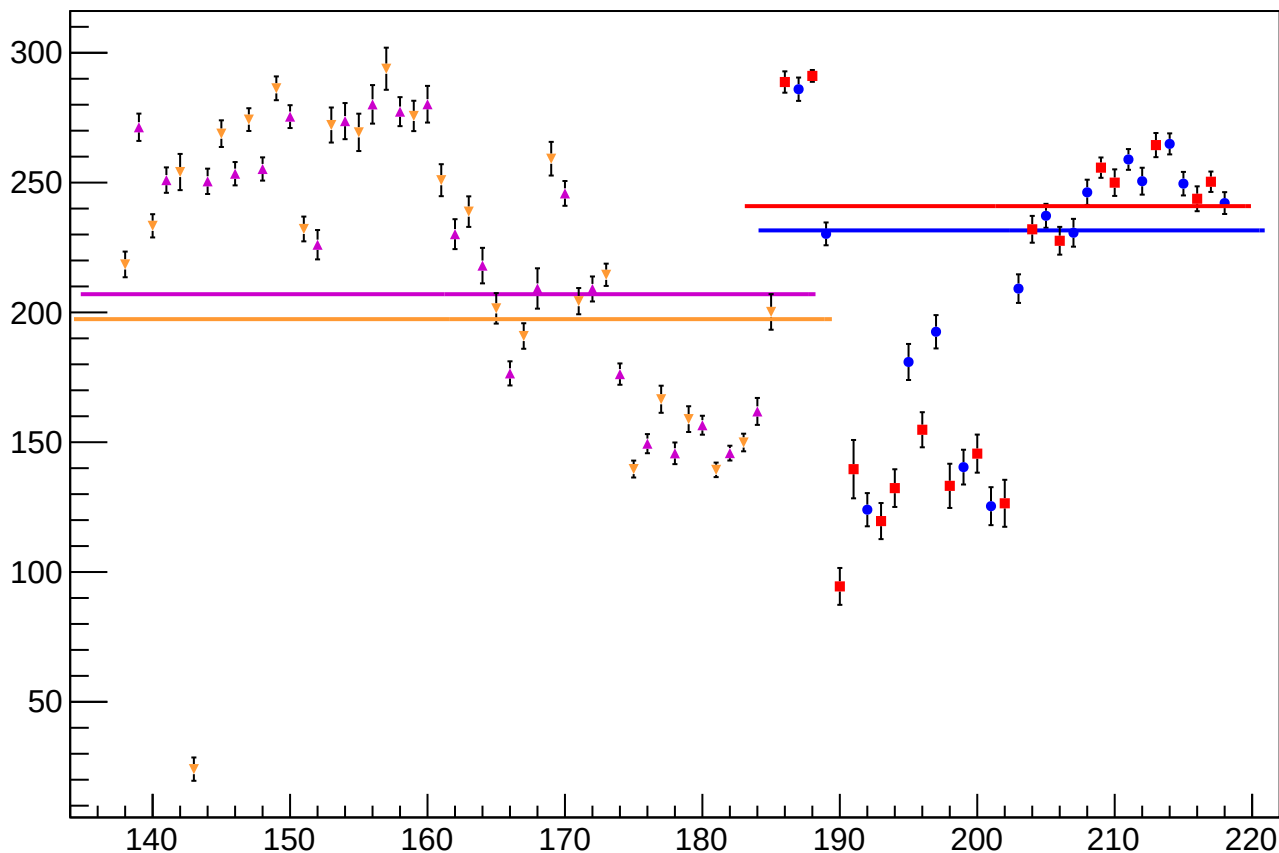
Right: -78.826 ± 0.035 $\chi^2/\text{NDF}: 2947649.4/68$

In: -113.388 ± 0.034 $\chi^2/\text{NDF}: 2669263.6/55$

Out: -109.019 ± 0.033 $\chi^2/\text{NDF}: 3005153.4/60$

All: -111.157 ± 0.023 $\chi^2/\text{NDF}: 5683077.4/111$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 231.587 $\pm$ 1.255 χ^2 /NDF: 1092.8/15

Left Out: 197.408 $\pm$ 0.963 χ^2 /NDF:4384.2/24

Right Out: 240.936 $\pm$ 1.182 χ^2 /NDF: 2364.2/16

Left In: 207.014 $\pm$ 0.990 χ^2 /NDF:2611.5/22

Left: 202.077 $\pm$ 0.690 χ^2 /NDF: 7044.1/47

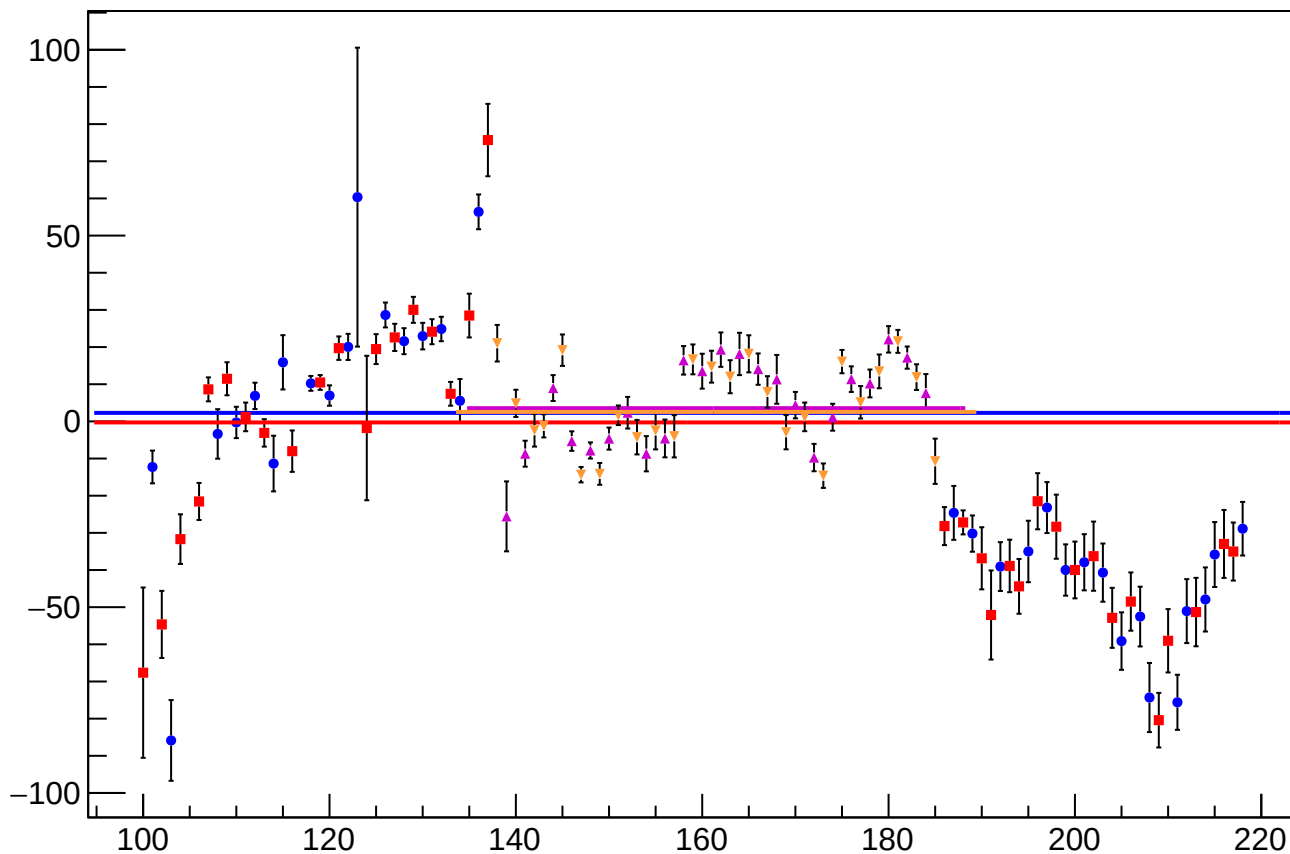
Right: 236.543 $\pm$ 0.860 χ^2 /NDF: 3486.5/32

In: 216.440 $\pm$ 0.777 χ^2 /NDF:3940.6/38

Out: 214.776 $\pm$ 0.746 χ^2 /NDF:7563.8/41

All: 215.574 $\pm$ 0.538 χ^2 /NDF: 11506.7/80

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.288 ± 0.836 $\chi^2/\text{NDF}: 1064.9/32$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: -0.283 ± 0.803 $\chi^2/\text{NDF}: 1025.9/35$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

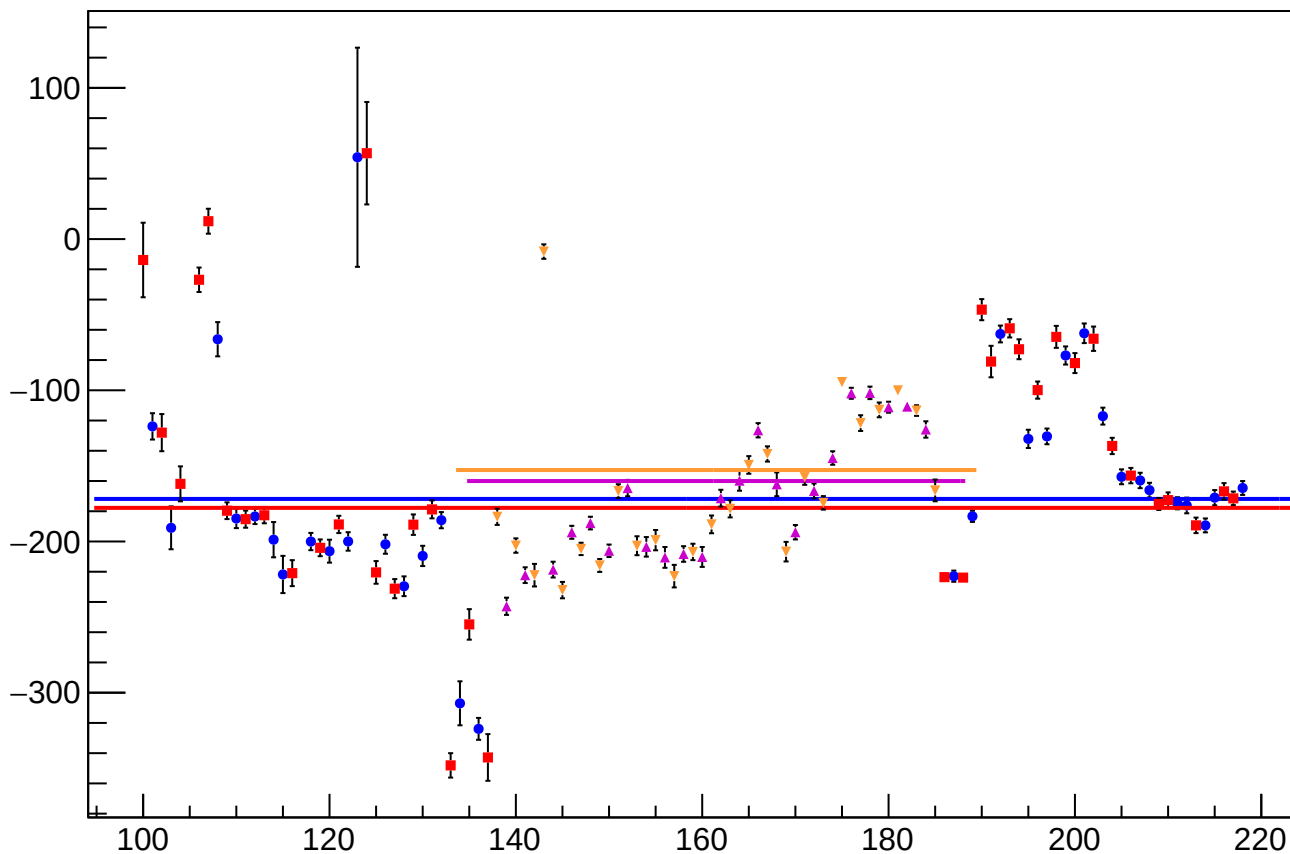
Right: 0.951 ± 0.579 $\chi^2/\text{NDF}: 2095.7/68$

In: 2.972 ± 0.568 $\chi^2/\text{NDF}: 1258.1/55$

Out: 1.245 ± 0.544 $\chi^2/\text{NDF}: 1308.0/60$

All: 2.072 ± 0.393 $\chi^2/\text{NDF}: 2571.0/116$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.844 ± 1.005 χ^2/NDF : 2250.9/32

Left Out: -152.738 ± 0.967 χ^2/NDF : 3077.8/24

Right Out: -177.763 ± 0.913 χ^2/NDF : 4591.1/35

Left In: -160.021 ± 0.989 χ^2/NDF : 2024.4/22

Left: -156.299 ± 0.691 χ^2/NDF : 5129.9/47

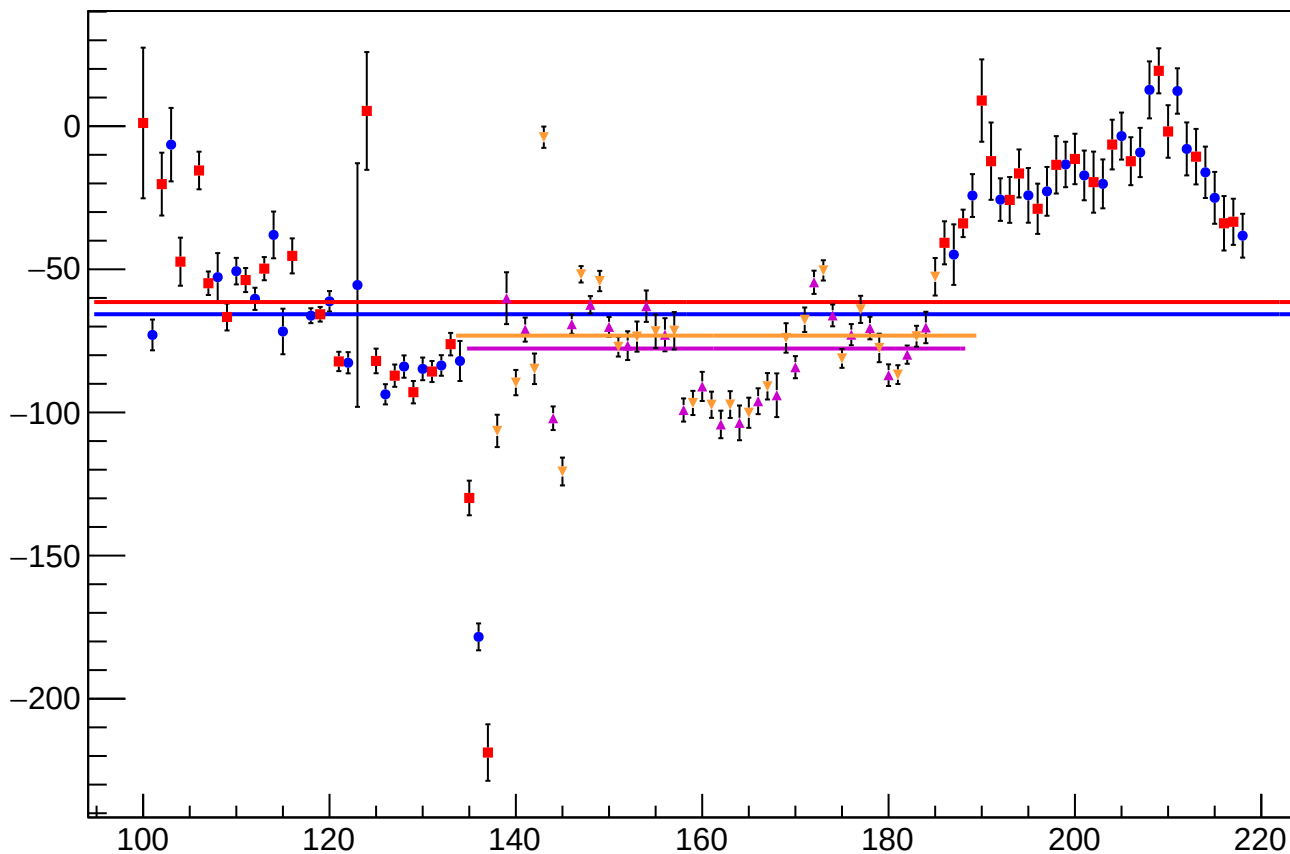
Right: -175.086 ± 0.676 χ^2/NDF : 6861.0/68

In: -165.836 ± 0.705 χ^2/NDF : 4345.6/55

Out: -165.963 ± 0.664 χ^2/NDF : 8022.9/60

All: -165.903 ± 0.483 χ^2/NDF : 12368.5/116

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -65.688 ± 0.966 $\chi^2/\text{NDF}: 1358.5/32$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -61.434 ± 0.937 $\chi^2/\text{NDF}: 1196.7/35$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

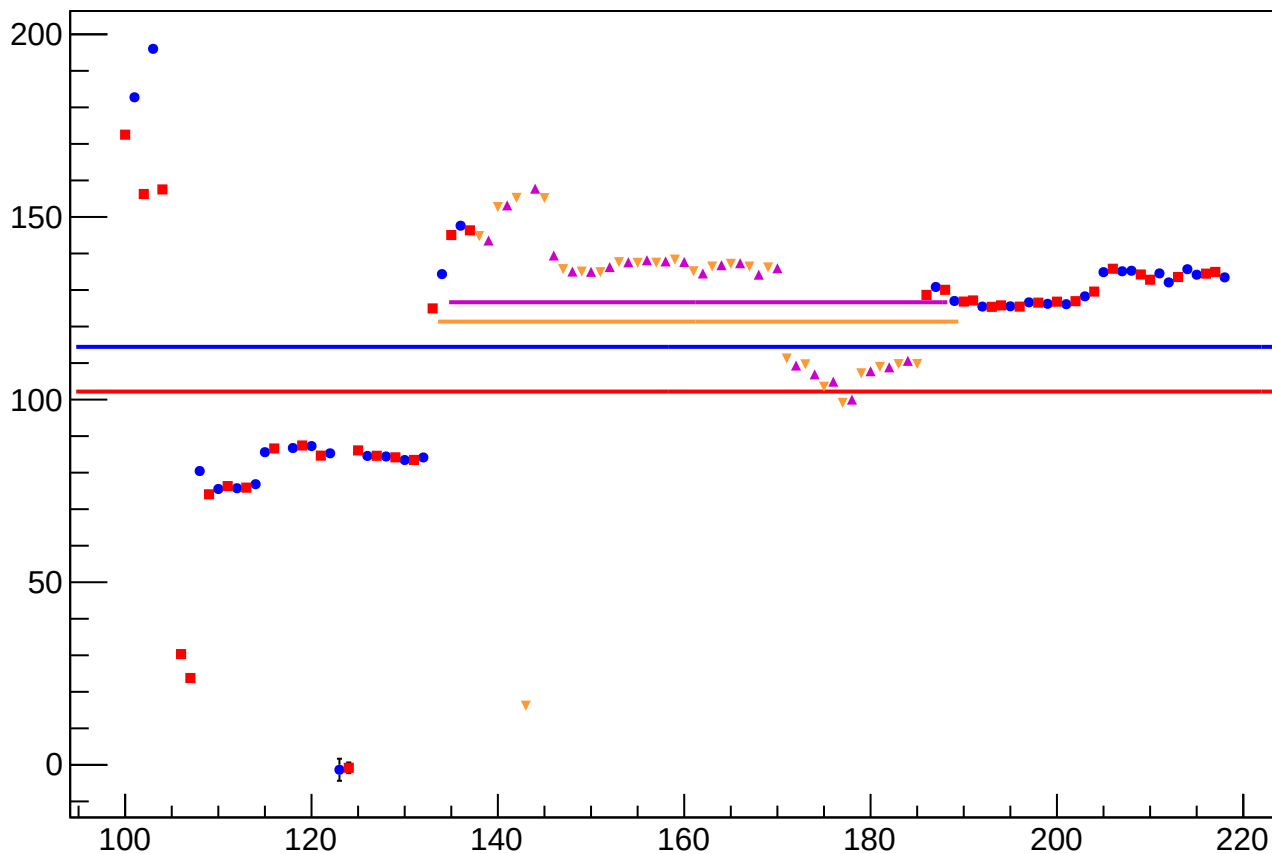
Right: -63.496 ± 0.673 $\chi^2/\text{NDF}: 2565.2/68$

In: -72.222 ± 0.652 $\chi^2/\text{NDF}: 1690.7/55$

Out: -67.860 ± 0.630 $\chi^2/\text{NDF}: 2071.2/60$

All: -69.968 ± 0.453 $\chi^2/\text{NDF}: 3785.0/116$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 114.440 +/- 0.054 χ^2/NDF : 330156.0/32

Left Out: 121.356 +/- 0.040 χ^2/NDF : 481977.3/24

Right Out: 102.203 +/- 0.050 χ^2/NDF : 607974.2/35

Left In: 126.653 +/- 0.041 χ^2/NDF : 163046.1/22

Left: 123.954 +/- 0.029 χ^2/NDF : 653496.6/47

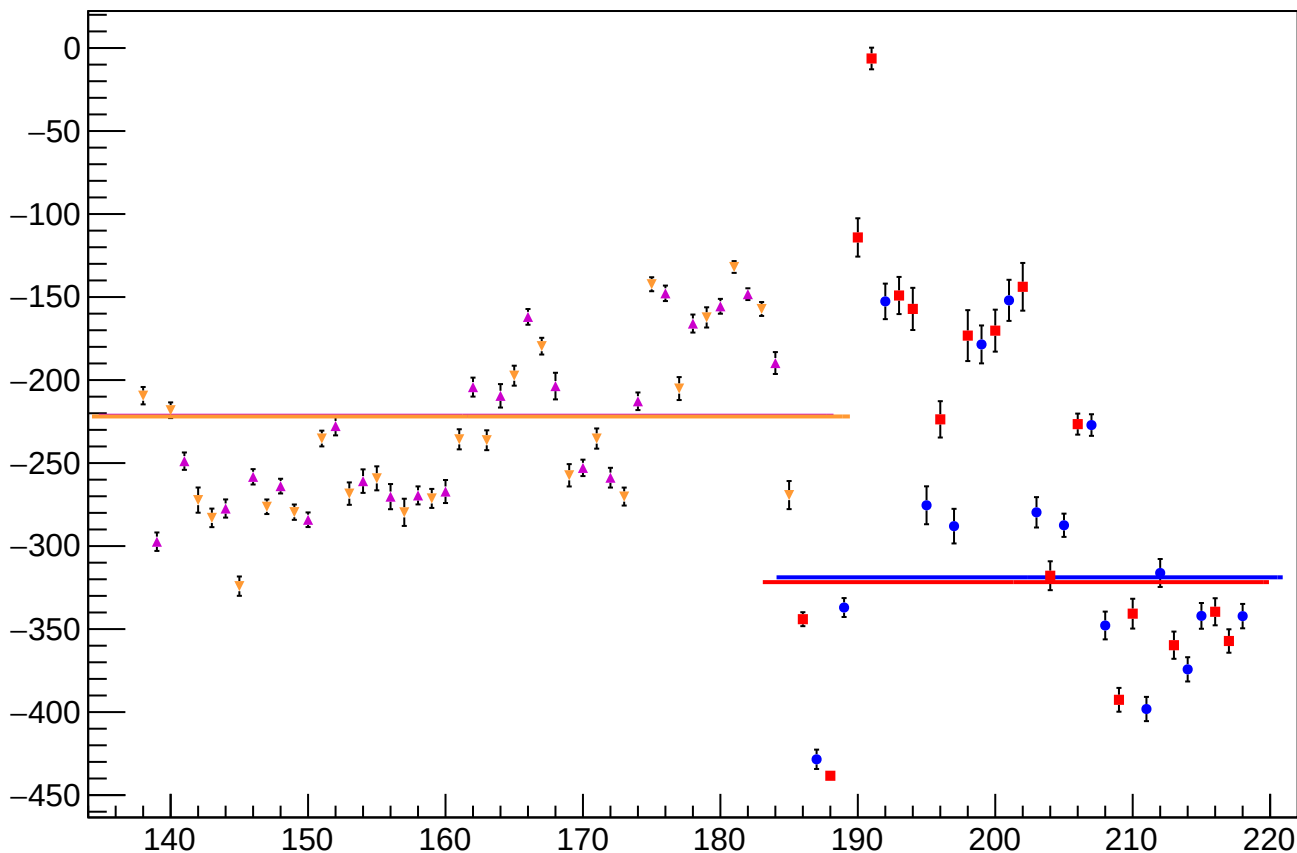
Right: 107.848 +/- 0.036 χ^2/NDF : 966088.5/68

In: 122.146 +/- 0.033 χ^2/NDF : 525823.0/55

Out: 113.759 +/- 0.031 χ^2/NDF : 1179526.7/60

All: 117.779 +/- 0.023 χ^2/NDF : 1739755.6/116

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -318.819+/-1.973 χ^2/NDF : 1404.2/15

Left Out: -221.934+/-1.084 χ^2/NDF : 2578.4/24

Right Out: -321.717+/-1.681 χ^2/NDF : 5424.7/16

Left In: -221.483+/-1.102 χ^2/NDF : 2149.8/22

Left: -221.712+/-0.773 χ^2/NDF : 4728.2/47

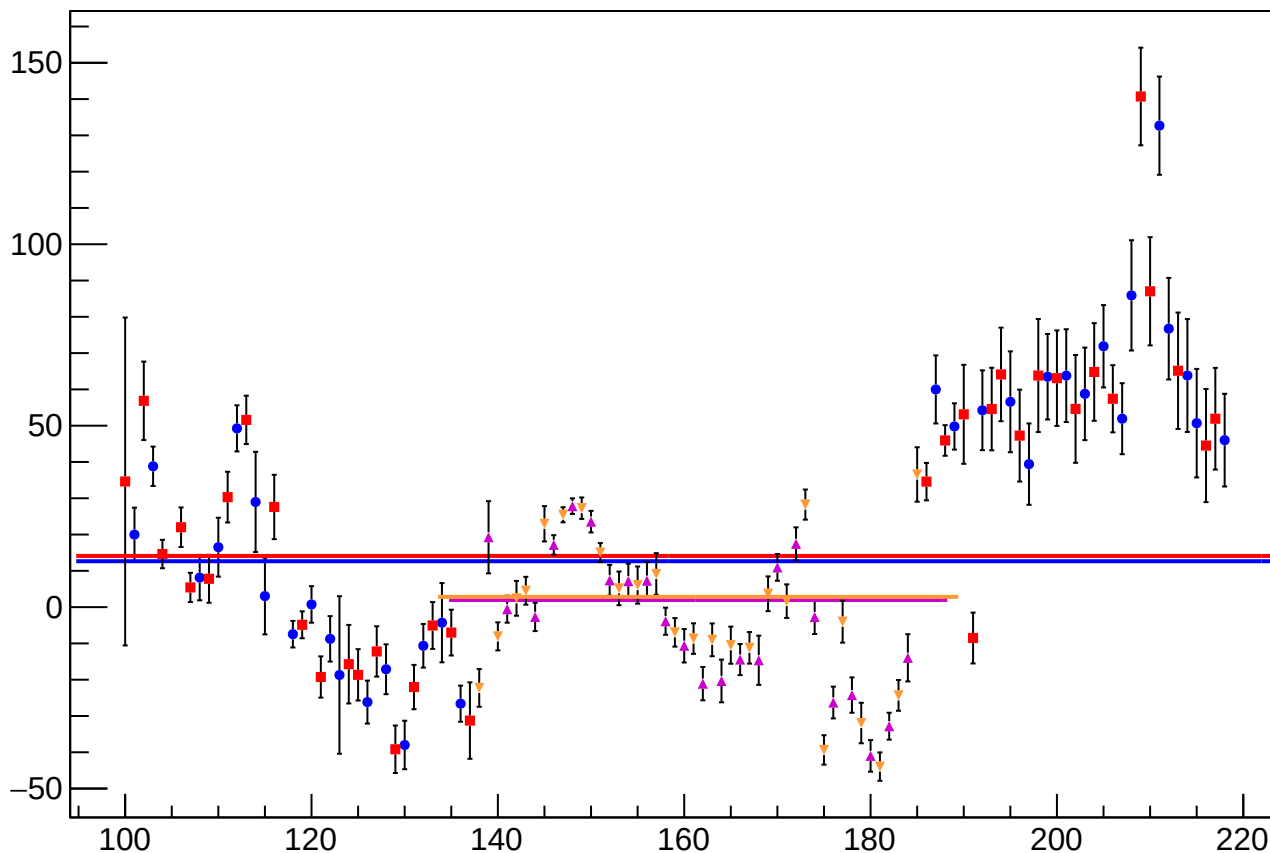
Right: -320.497+/-1.280 χ^2/NDF : 6830.1/32

In: -244.643+/-0.962 χ^2/NDF : 5409.6/38

Out: -251.253+/-0.911 χ^2/NDF : 10490.7/41

All: -248.127+/-0.662 χ^2/NDF : 15925.1/80

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.651+/-1.352 χ^2/NDF : 636.2/32

Left Out: 2.832+/-0.807 χ^2/NDF : 686.9/24

Right Out: 14.104+/-1.192 χ^2/NDF : 633.8/35

Left In: 1.969+/-0.835 χ^2/NDF : 589.1/22

Left: 2.415+/-0.580 χ^2/NDF : 1276.5/47

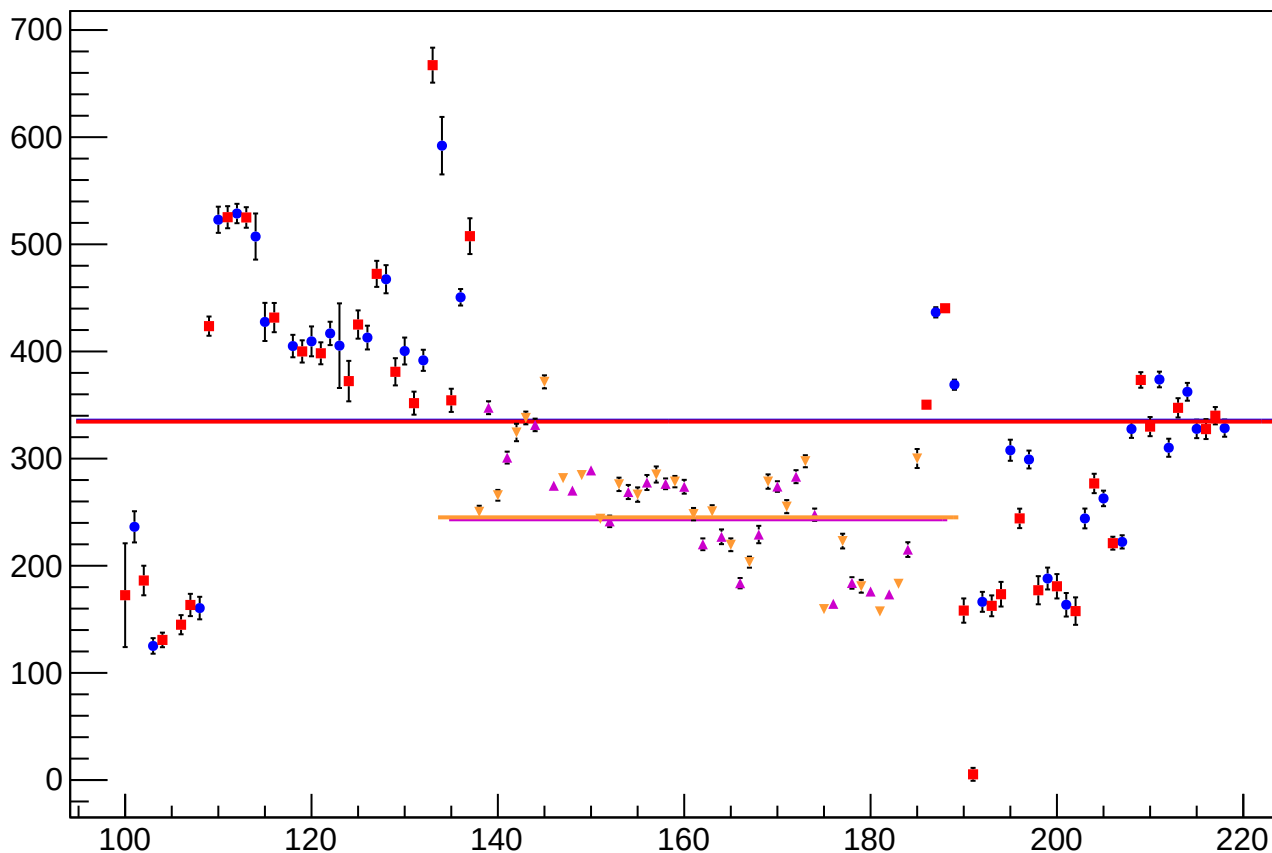
Right: 13.469+/-0.894 χ^2/NDF : 1270.7/68

In: 4.916+/-0.710 χ^2/NDF : 1270.5/55

Out: 6.374+/-0.668 χ^2/NDF : 1382.0/60

All: 5.690+/-0.487 χ^2/NDF : 2654.7/116

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 335.418 $\pm$ 1.546 χ^2 /NDF: 4486.2/32

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 334.543 $\pm$ 1.286 χ^2 /NDF: 10100.6/35

Left In: 243.366 $\pm$ 1.094 χ^2 /NDF:2236.7/22

Left: 244.282 $\pm$ 0.769 χ^2 /NDF: 4835.5/47

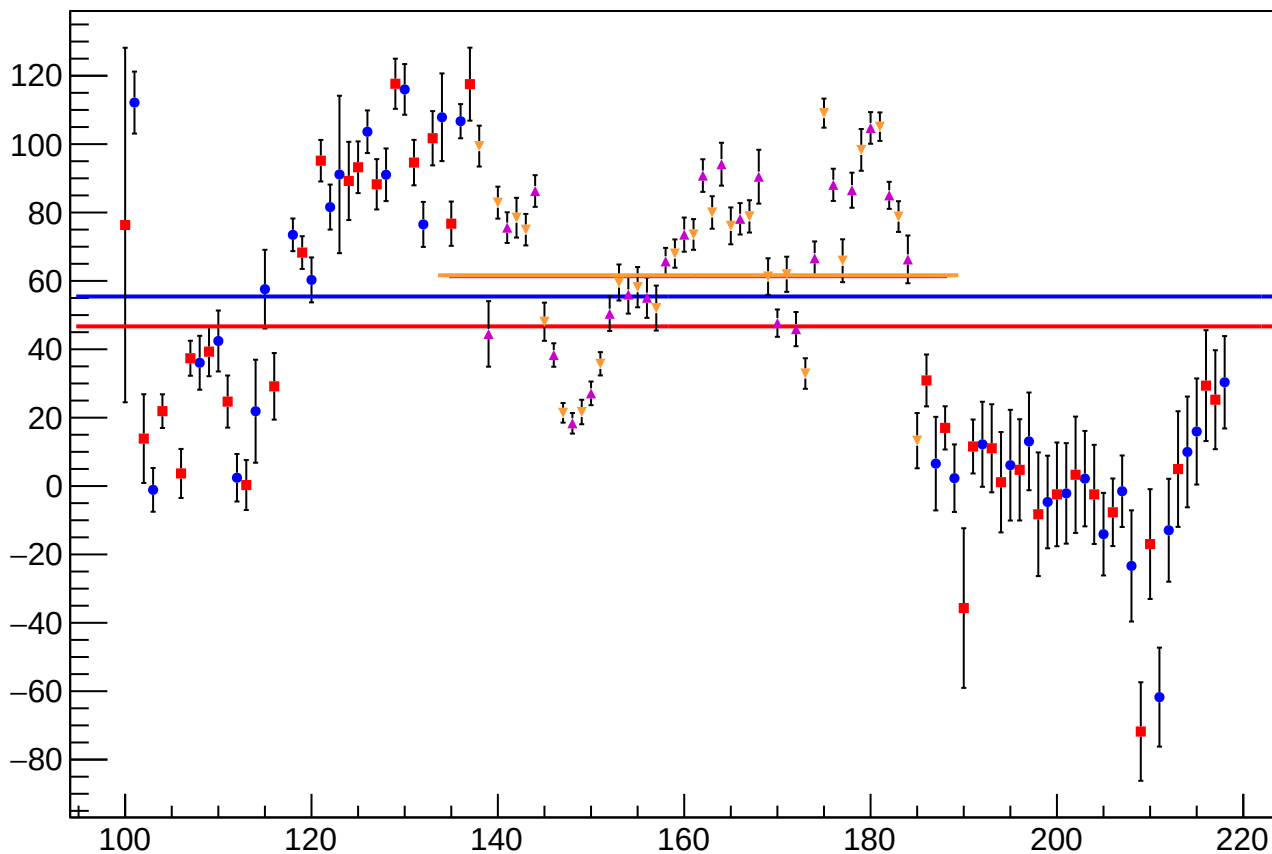
Right: 334.901 $\pm$ 0.989 χ^2 /NDF: 14587.0/68

In: 274.072 $\pm$ 0.893 χ^2 /NDF:9086.2/55

Out: 282.212 $\pm$ 0.828 χ^2 /NDF:15524.6/60

All: 278.448 $\pm$ 0.607 χ^2 /NDF: 24655.4/116

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 55.439 $\pm$ 1.565 χ^2 /NDF: 813.4/32

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF:871.5/24

Right Out: 46.700 $\pm$ 1.419 χ^2 /NDF: 795.7/35

Left In: 61.375 $\pm$ 0.961 χ^2 /NDF:699.7/22

Left: 61.515 $\pm$ 0.671 χ^2 /NDF: 1571.3/47

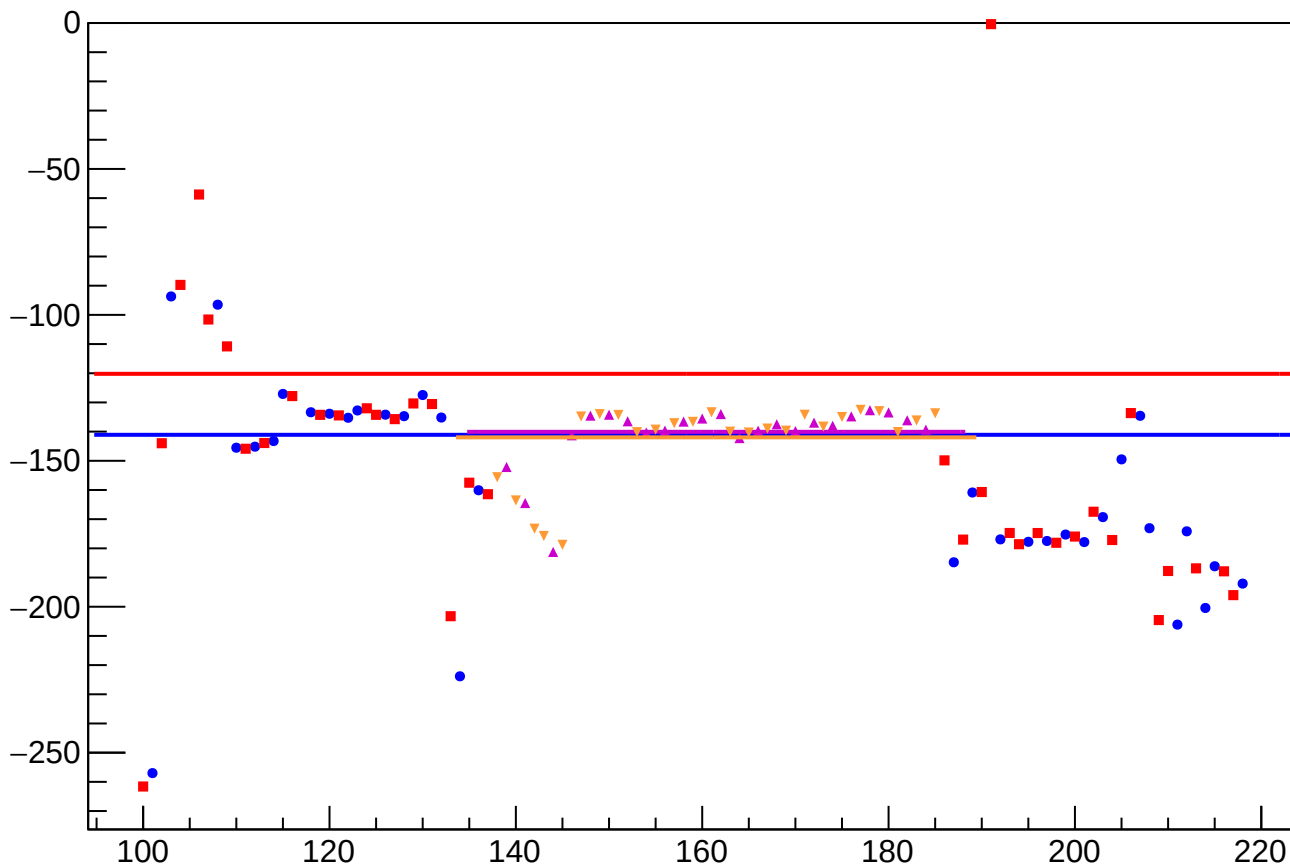
Right: 50.642 $\pm$ 1.051 χ^2 /NDF: 1626.2/68

In: 59.750 $\pm$ 0.819 χ^2 /NDF:1523.6/55

Out: 57.112 $\pm$ 0.781 χ^2 /NDF:1744.6/60

All: 58.369 $\pm$ 0.565 χ^2 /NDF: 3273.6/116

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -141.093+/-0.074 χ^2/NDF : 260698.9/32

Left Out: -141.969+/-0.045 χ^2/NDF : 80252.6/24

Right Out: -120.198+/-0.066 χ^2/NDF : 653871.2/35

Left In: -140.068+/-0.045 χ^2/NDF : 48030.7/22

Left: -141.025+/-0.032 χ^2/NDF : 129181.1/47

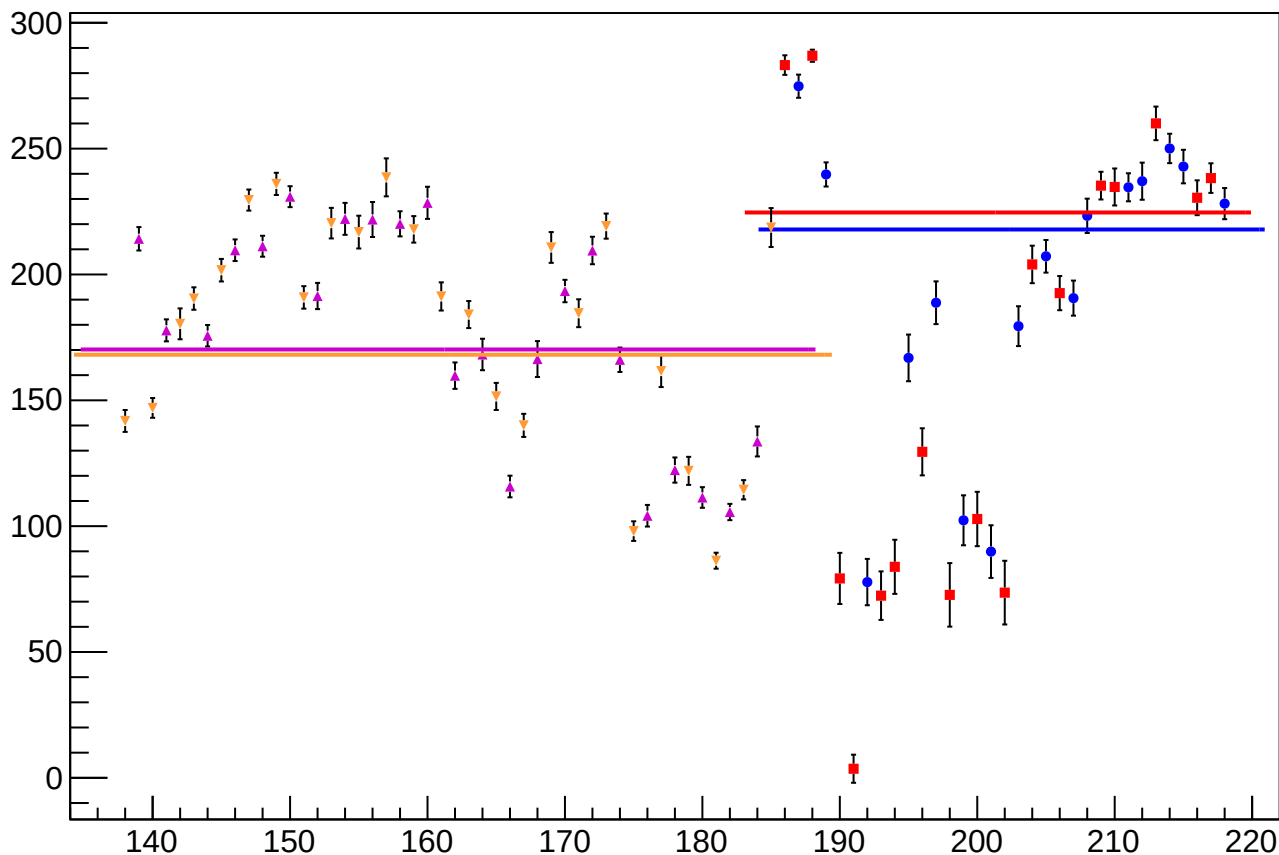
Right: -129.472+/-0.049 χ^2/NDF : 958705.3/68

In: -140.344+/-0.038 χ^2/NDF : 308869.0/55

Out: -135.160+/-0.037 χ^2/NDF : 808314.2/60

All: -137.654+/-0.027 χ^2/NDF : 1126602.2/111

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 217.879 ± 1.672 χ^2/NDF : 837.9/15

Left Out: 168.106 ± 0.970 χ^2/NDF : 2468.8/24

Right Out: 224.629 ± 1.421 χ^2/NDF : 3675.1/16

Left In: 170.198 ± 0.995 χ^2/NDF : 2024.5/22

Left: 169.125 ± 0.695 χ^2/NDF : 4495.5/47

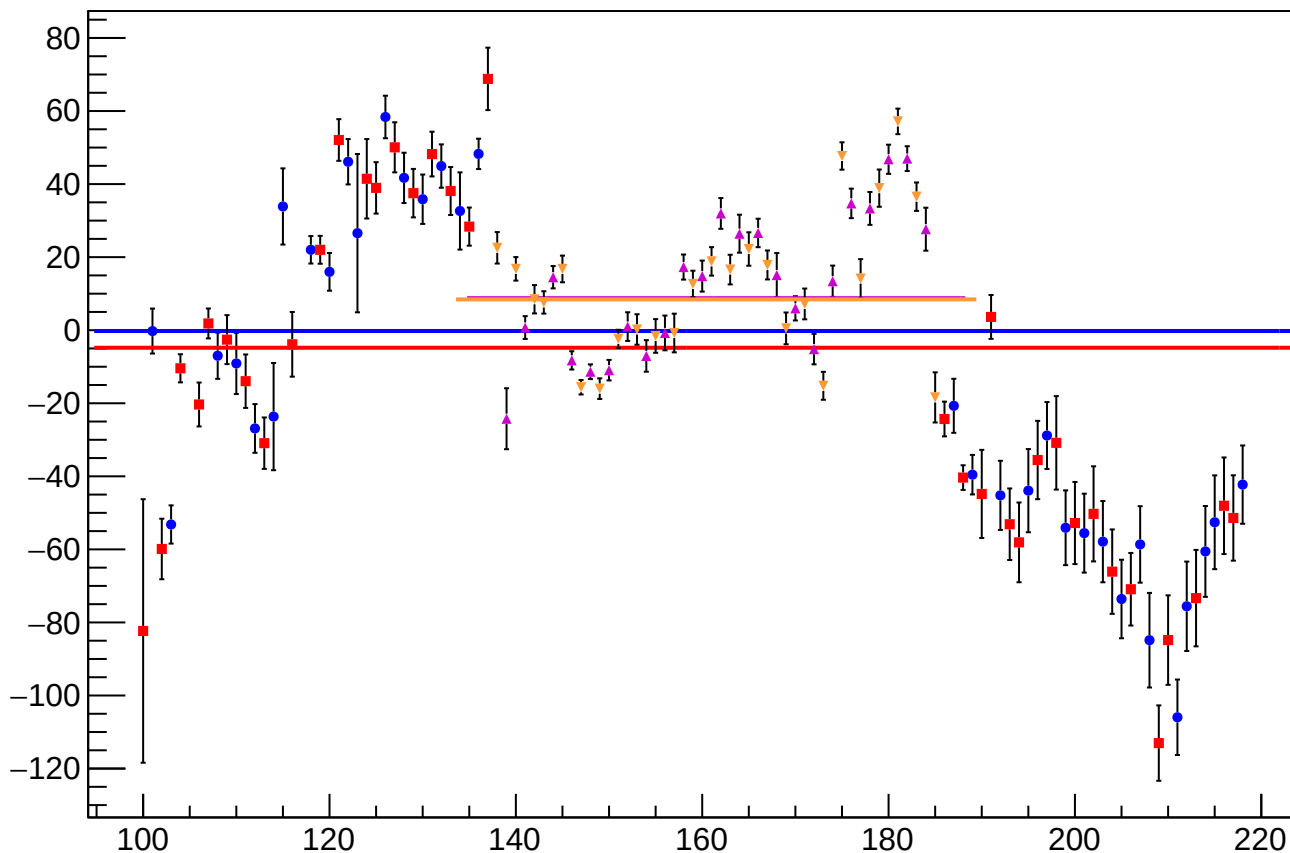
Right: 221.800 ± 1.083 χ^2/NDF : 4522.4/32

In: 182.671 ± 0.855 χ^2/NDF : 3462.6/38

Out: 186.086 ± 0.801 χ^2/NDF : 7223.5/41

All: 184.490 ± 0.585 χ^2/NDF : 10694.6/80

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.211 ± 1.277 $\chi^2/\text{NDF}: 1113.8/32$

Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$

Right Out: -4.802 ± 1.130 $\chi^2/\text{NDF}: 1128.9/35$

Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$

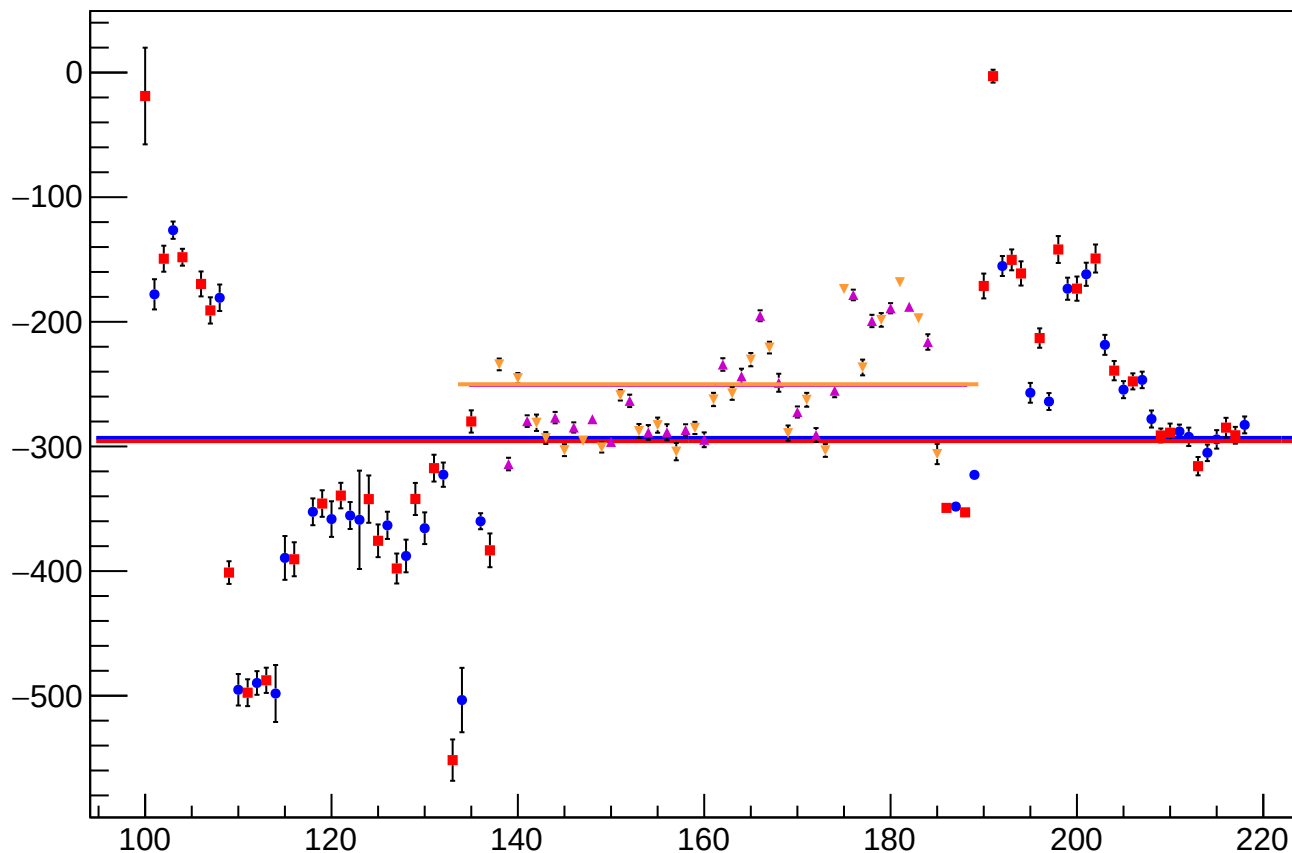
Right: -2.786 ± 0.846 $\chi^2/\text{NDF}: 2249.9/68$

In: 6.428 ± 0.652 $\chi^2/\text{NDF}: 1777.1/55$

Out: 4.552 ± 0.612 $\chi^2/\text{NDF}: 1978.0/60$

All: 5.431 ± 0.446 $\chi^2/\text{NDF}: 3759.5/116$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -293.150+/-1.356 χ^2/NDF : 3137.6/32

Left Out: -250.119+/-0.972 χ^2/NDF :2246.9/24

Right Out: -295.721+/-1.124 χ^2/NDF : 8121.2/35

Left In: -250.628+/-0.990 χ^2/NDF :1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

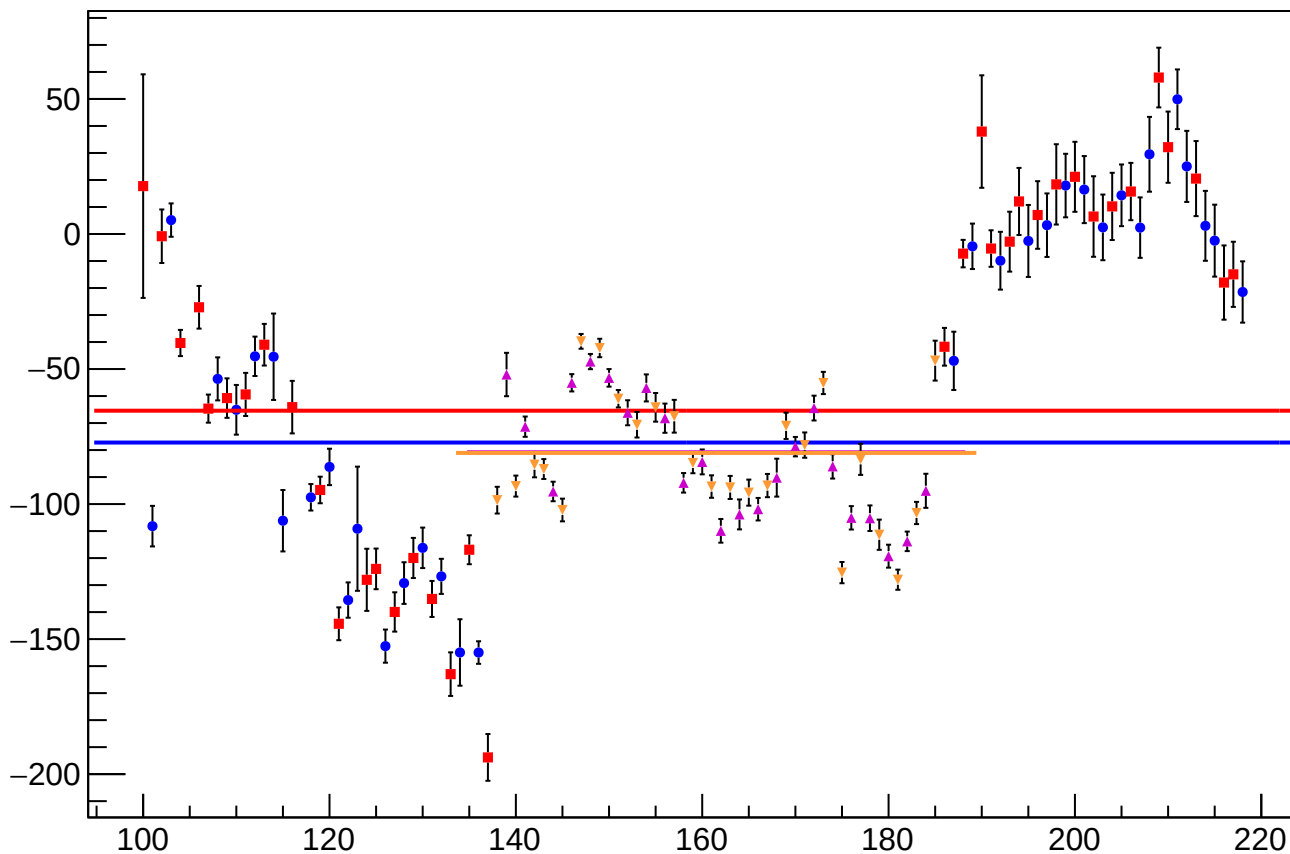
Right: -294.675+/-0.865 χ^2/NDF : 11261.0/68

In: -265.415+/-0.800 χ^2/NDF :5715.7/55

Out: -269.643+/-0.735 χ^2/NDF :11310.0/60

All: -267.706+/-0.541 χ^2/NDF : 17040.8/116

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -77.217 ± 1.476 $\chi^2/\text{NDF}: 1830.5/32$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -65.427 ± 1.348 $\chi^2/\text{NDF}: 1920.0/35$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

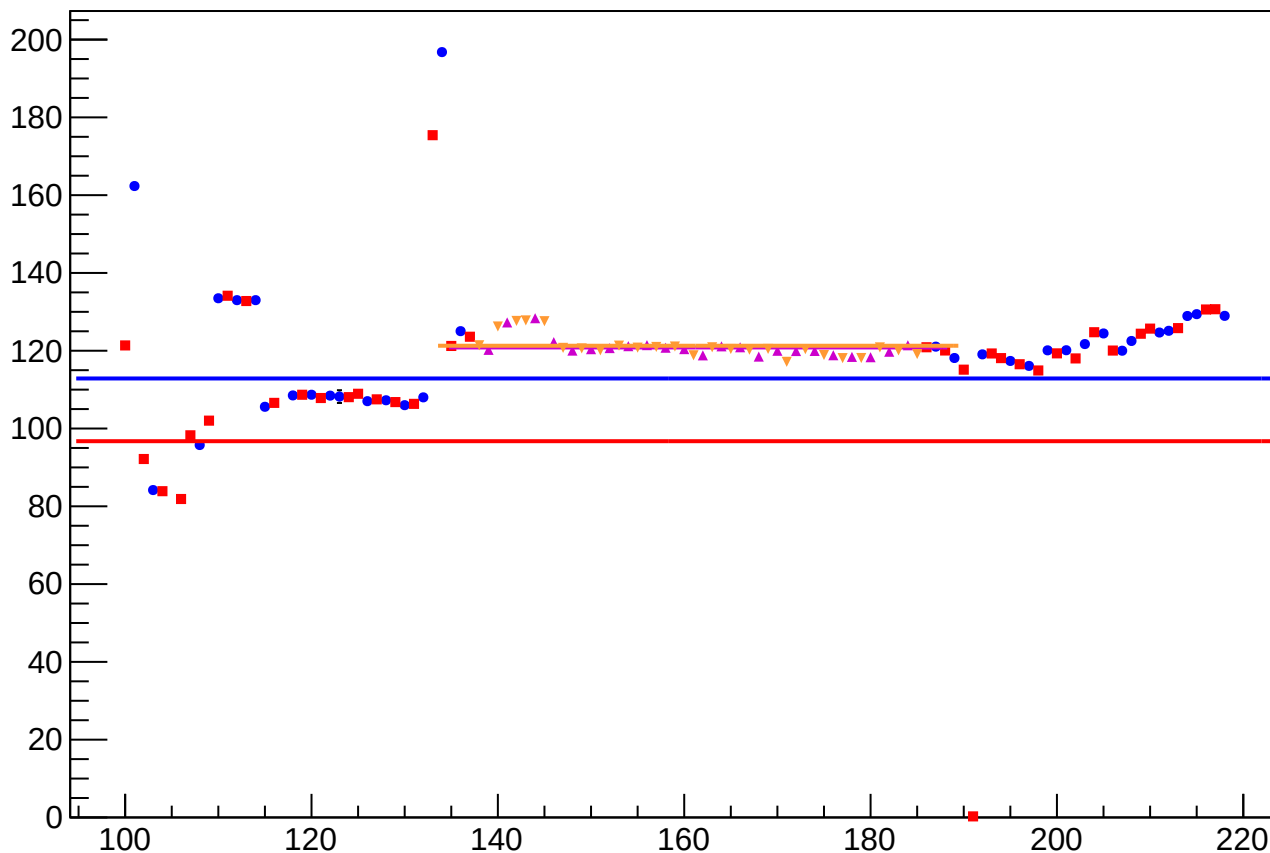
Right: -70.786 ± 0.995 $\chi^2/\text{NDF}: 3785.3/68$

In: -79.898 ± 0.751 $\chi^2/\text{NDF}: 2528.1/55$

Out: -76.662 ± 0.715 $\chi^2/\text{NDF}: 2929.7/60$

All: -78.201 ± 0.518 $\chi^2/\text{NDF}: 5467.6/116$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.867 $\pm$ 0.068 χ^2 /NDF: 81767.5/32

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 96.741 $\pm$ 0.061 χ^2 /NDF: 375011.4/35

Left In: 120.843 $\pm$ 0.041 χ^2 /NDF: 3368.2/22

Left: 121.066 $\pm$ 0.029 χ^2 /NDF: 8366.9/47

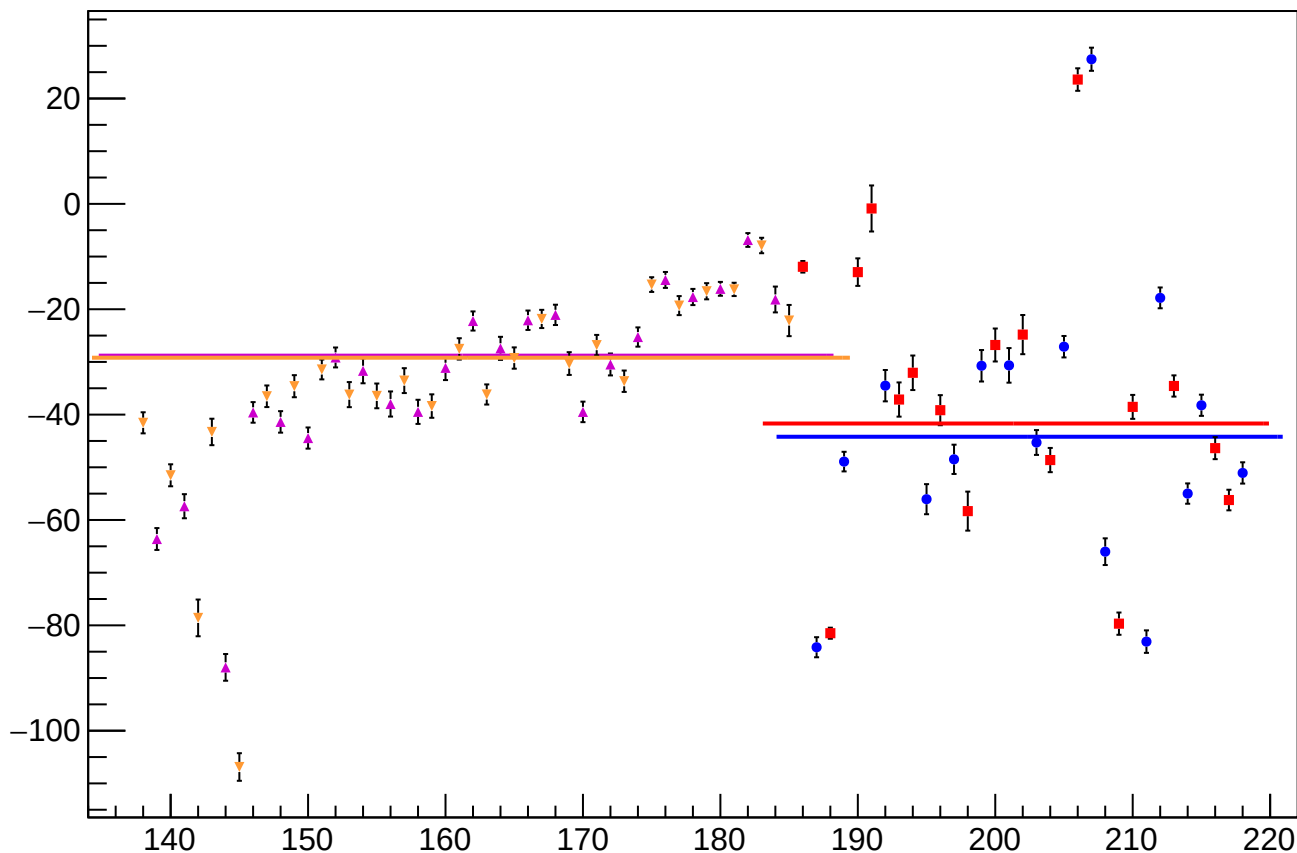
Right: 103.891 $\pm$ 0.046 χ^2 /NDF: 487726.4/68

In: 118.757 $\pm$ 0.035 χ^2 /NDF: 95180.8/55

Out: 113.884 $\pm$ 0.034 χ^2 /NDF: 492870.6/60

All: 116.217 $\pm$ 0.024 χ^2 /NDF: 598175.8/116

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -44.202 ± 0.563 χ^2/NDF : 2283.6/15

Left Out: -29.199 ± 0.389 χ^2/NDF : 1881.5/24

Right Out: -41.689 ± 0.497 χ^2/NDF : 3795.9/16

Left In: -28.810 ± 0.395 χ^2/NDF : 1763.8/22

Left: -29.008 ± 0.277 χ^2/NDF : 3645.8/47

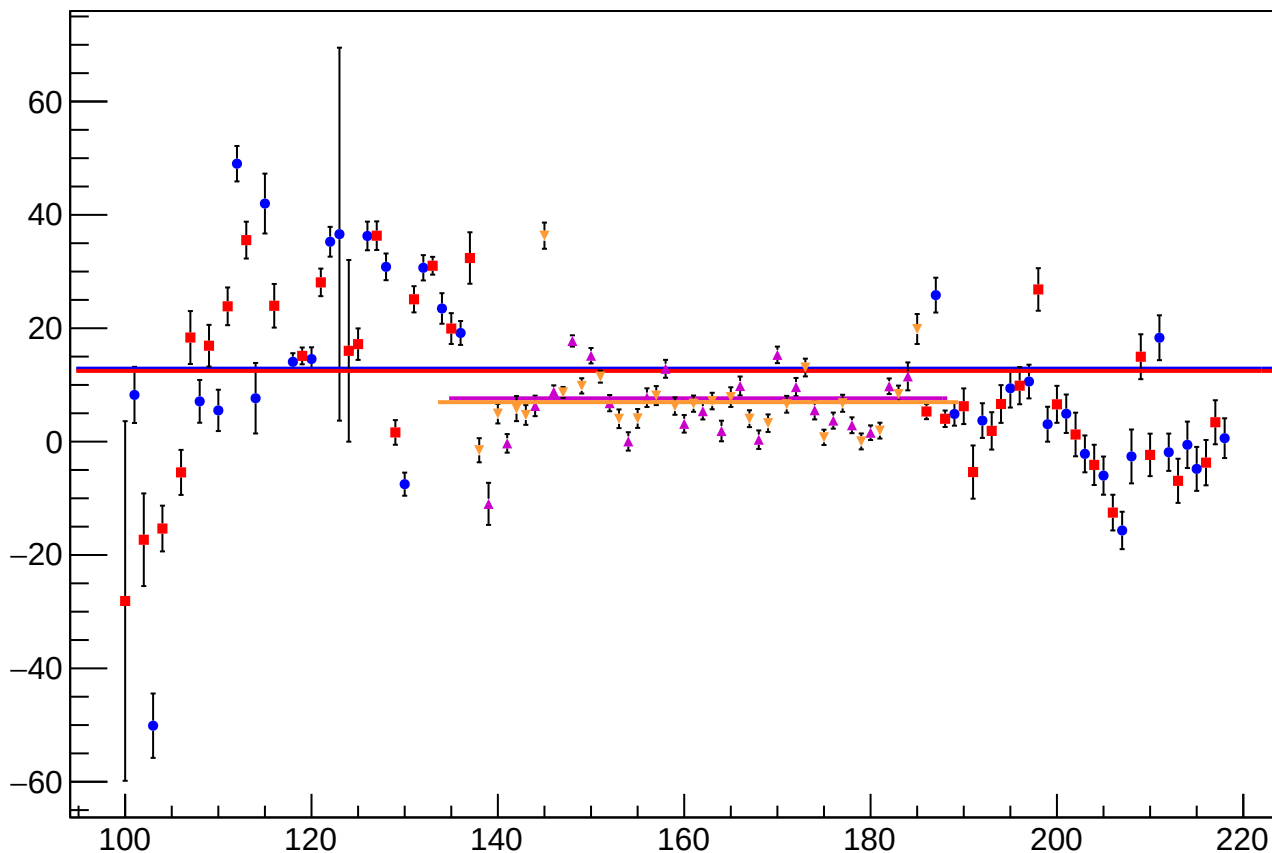
Right: -42.788 ± 0.372 χ^2/NDF : 6090.7/32

In: -33.893 ± 0.324 χ^2/NDF : 4548.1/38

Out: -33.943 ± 0.306 χ^2/NDF : 6069.8/41

All: -33.919 ± 0.222 χ^2/NDF : 10617.9/80

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.872 $\pm$ 0.509 χ^2 /NDF: 965.0/32

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 12.477 $\pm$ 0.466 χ^2 /NDF: 782.9/35

Left In: 7.638 $\pm$ 0.313 χ^2 /NDF:337.7/22

Left: 7.287 $\pm$ 0.218 χ^2 /NDF: 661.5/47

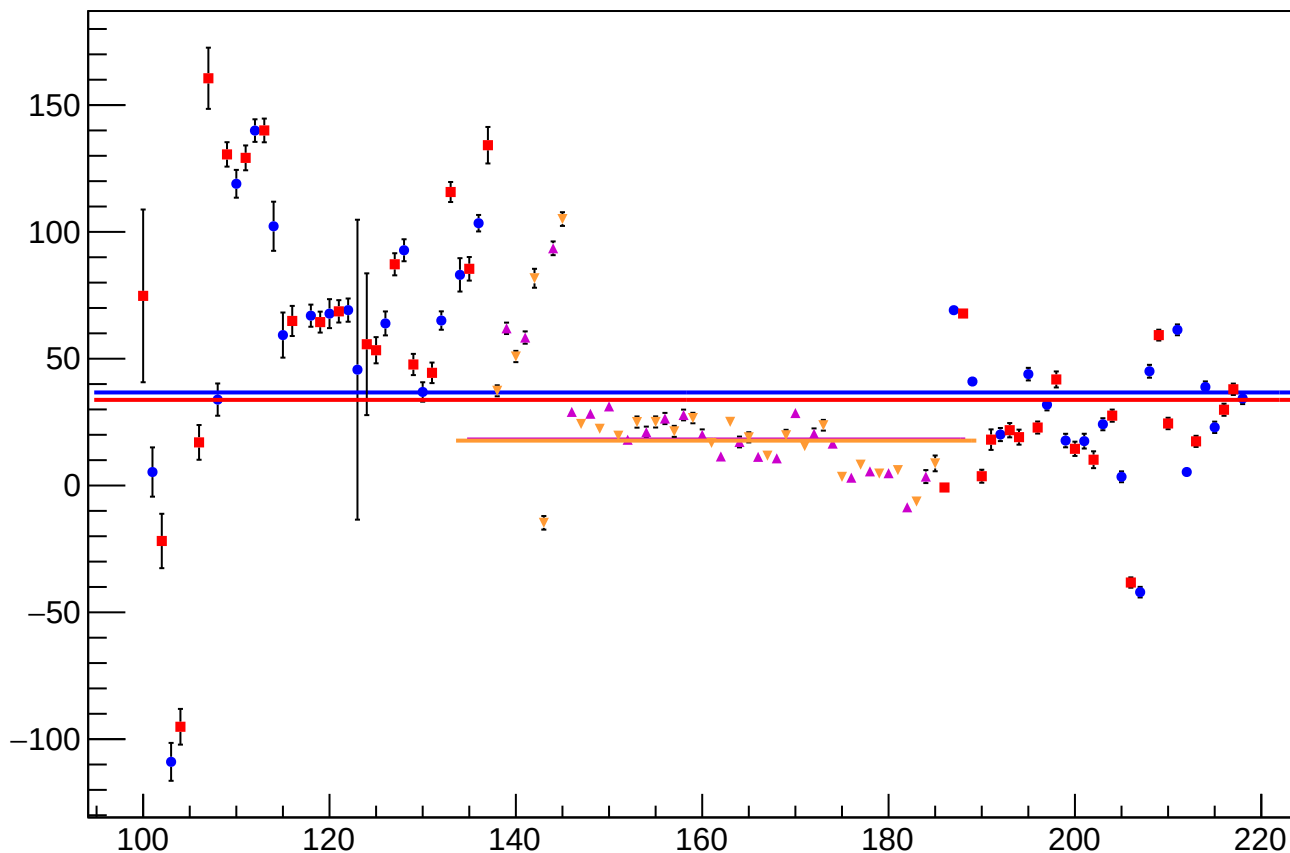
Right: 12.657 $\pm$ 0.344 χ^2 /NDF: 1748.2/68

In: 9.078 $\pm$ 0.267 χ^2 /NDF:1379.3/55

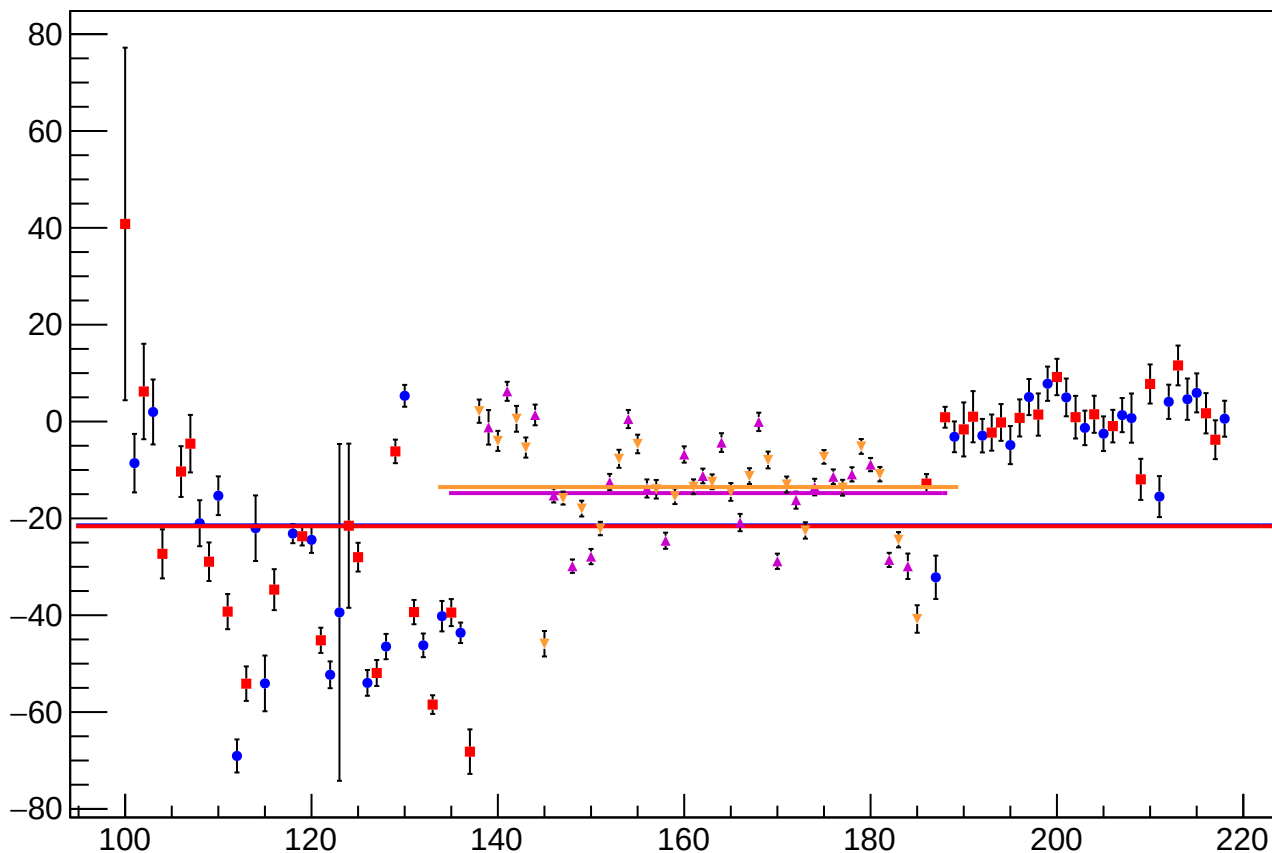
Out: 8.599 $\pm$ 0.254 χ^2 /NDF:1202.7/60

All: 8.826 $\pm$ 0.184 χ^2 /NDF: 2583.8/116

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.444 ± 0.586 $\chi^2/\text{NDF}: 1545.9/32$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -21.627 ± 0.558 $\chi^2/\text{NDF}: 1582.6/35$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

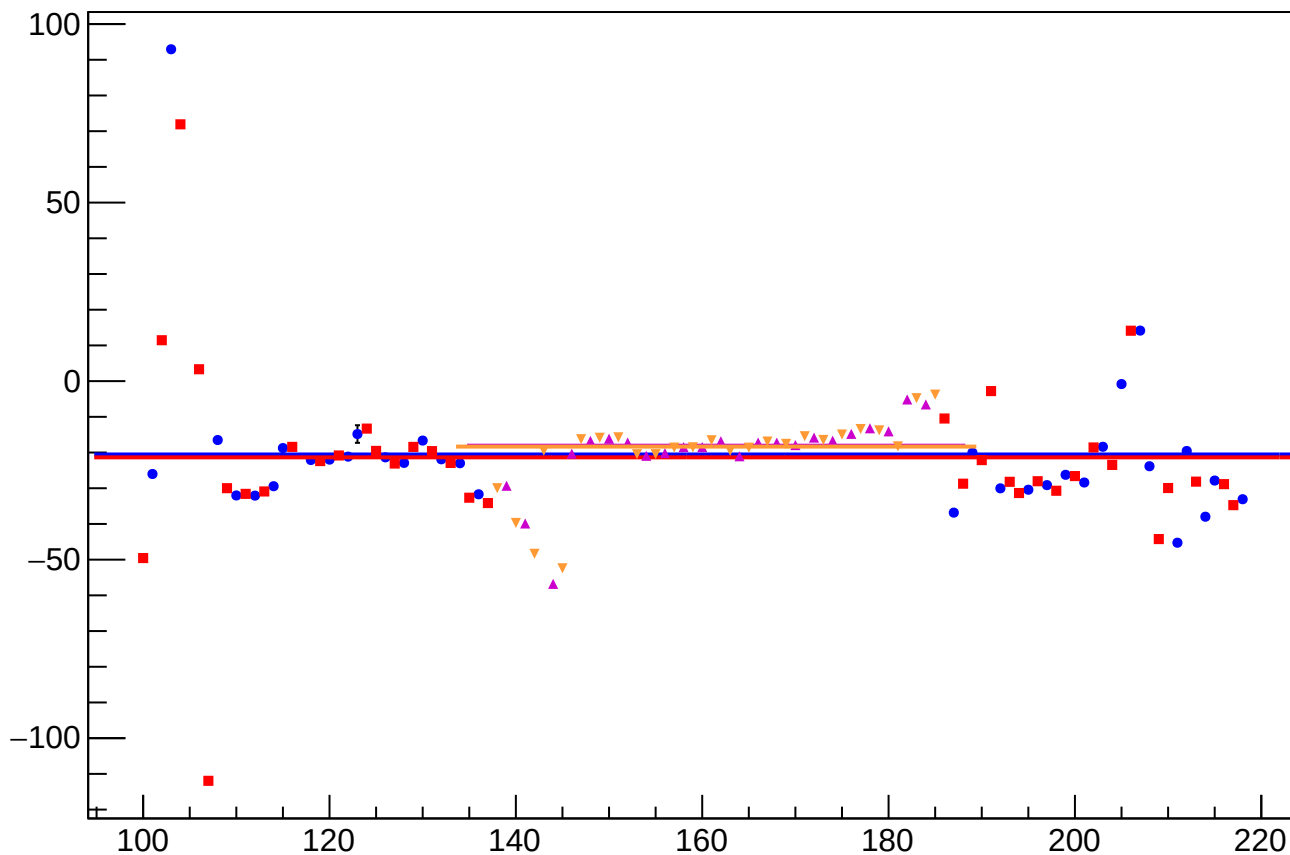
Right: -21.540 ± 0.404 $\chi^2/\text{NDF}: 3128.6/68$

In: -16.561 ± 0.303 $\chi^2/\text{NDF}: 2478.7/55$

Out: -15.763 ± 0.293 $\chi^2/\text{NDF}: 2308.1/60$

All: -16.148 ± 0.211 $\chi^2/\text{NDF}: 4790.3/116$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.546 ± 0.028 $\chi^2/\text{NDF}: 623044.4/32$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -21.351 ± 0.027 $\chi^2/\text{NDF}: 583577.8/35$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

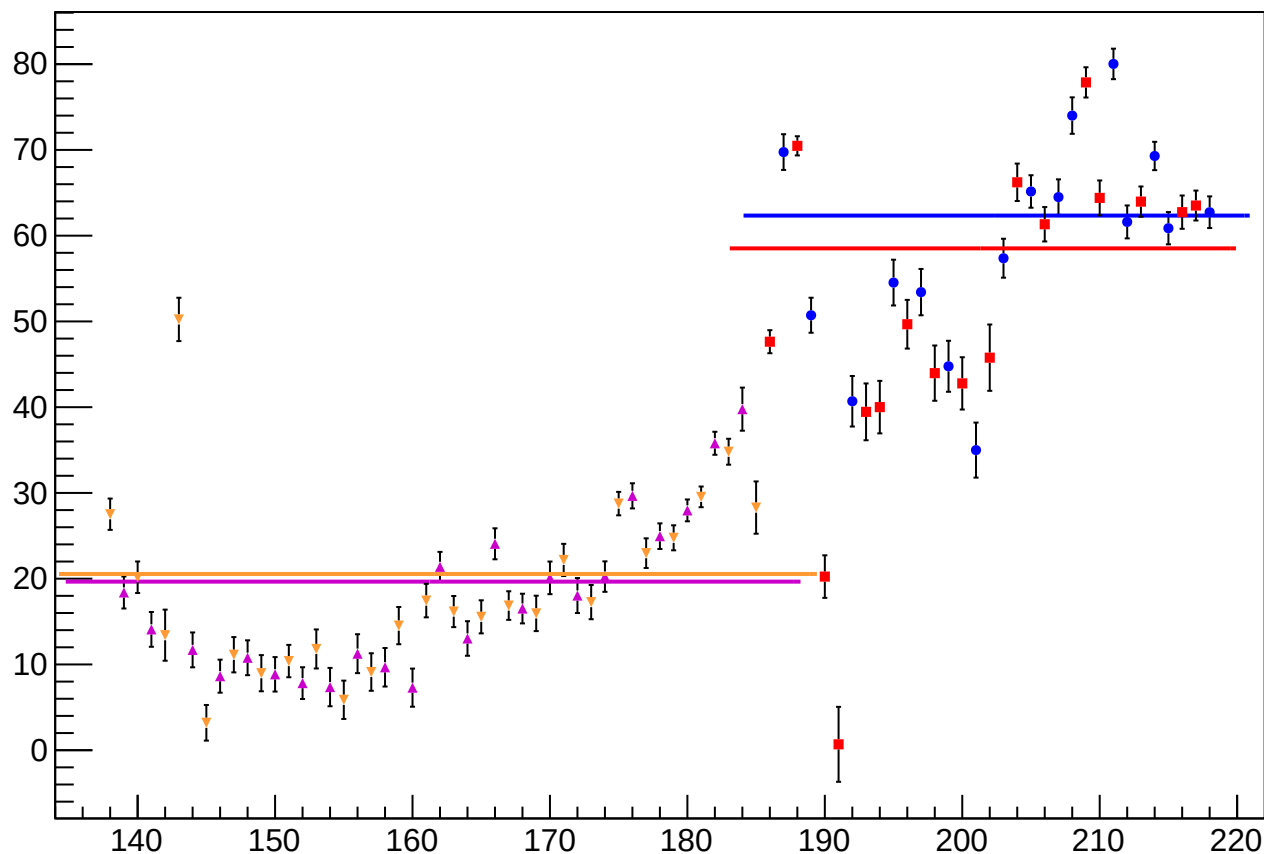
Right: -20.962 ± 0.020 $\chi^2/\text{NDF}: 1207045.8/68$

In: -18.691 ± 0.014 $\chi^2/\text{NDF}: 870773.1/55$

Out: -19.099 ± 0.014 $\chi^2/\text{NDF}: 876921.3/60$

All: -18.899 ± 0.010 $\chi^2/\text{NDF}: 1748130.0/116$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 62.343 $\pm$ 0.532 χ^2 /NDF: 381.5/15

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 58.519 $\pm$ 0.494 χ^2 /NDF: 896.4/16

Left In: 19.656 $\pm$ 0.380 χ^2 /NDF: 571.8/22

Left: 20.112 $\pm$ 0.266 χ^2 /NDF: 1201.0/47

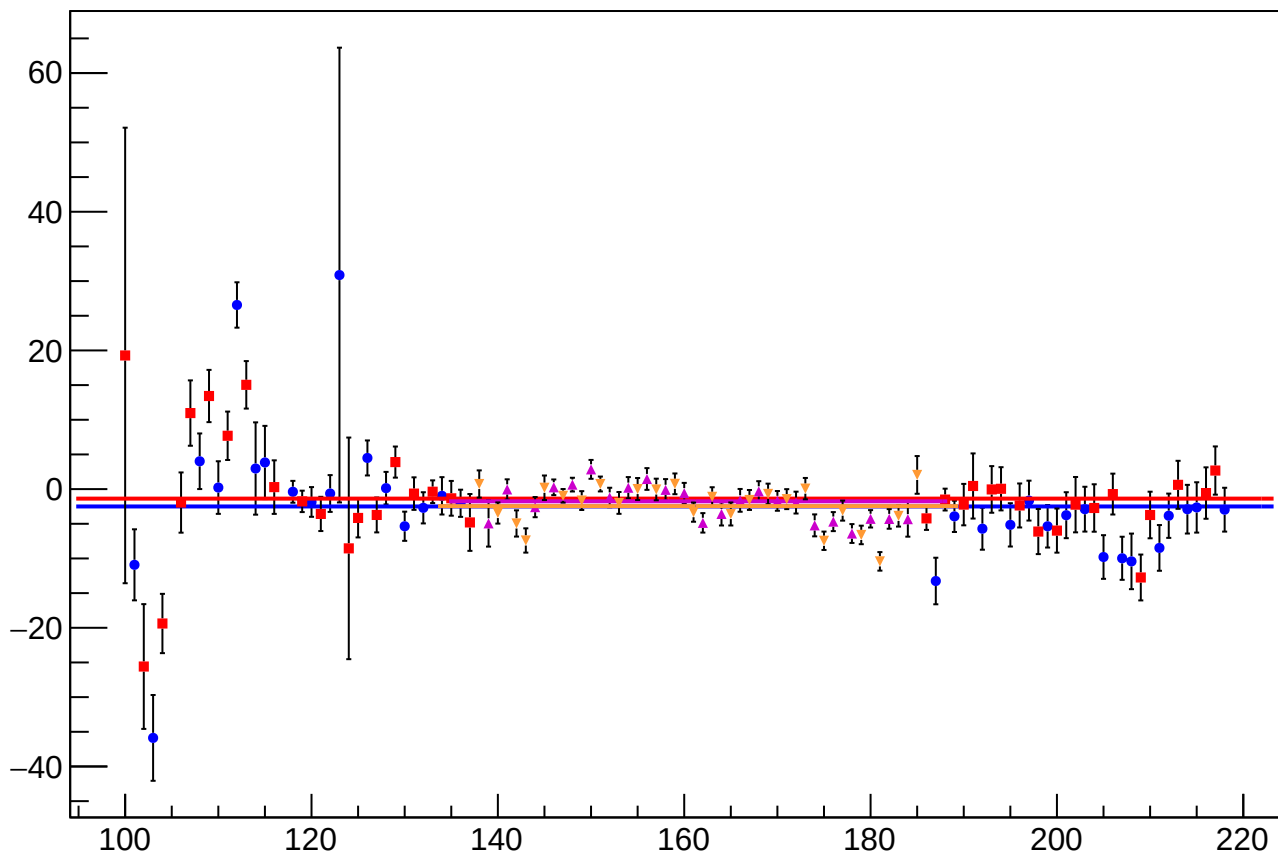
Right: 60.288 $\pm$ 0.362 χ^2 /NDF: 1305.6/32

In: 34.087 $\pm$ 0.309 χ^2 /NDF: 5210.4/38

Out: 34.339 $\pm$ 0.298 χ^2 /NDF: 5284.7/41

All: 34.218 $\pm$ 0.215 χ^2 /NDF: 10495.4/80

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.502 ± 0.507 χ^2/NDF : 162.7/32

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.371 ± 0.476 χ^2/NDF : 109.4/35

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

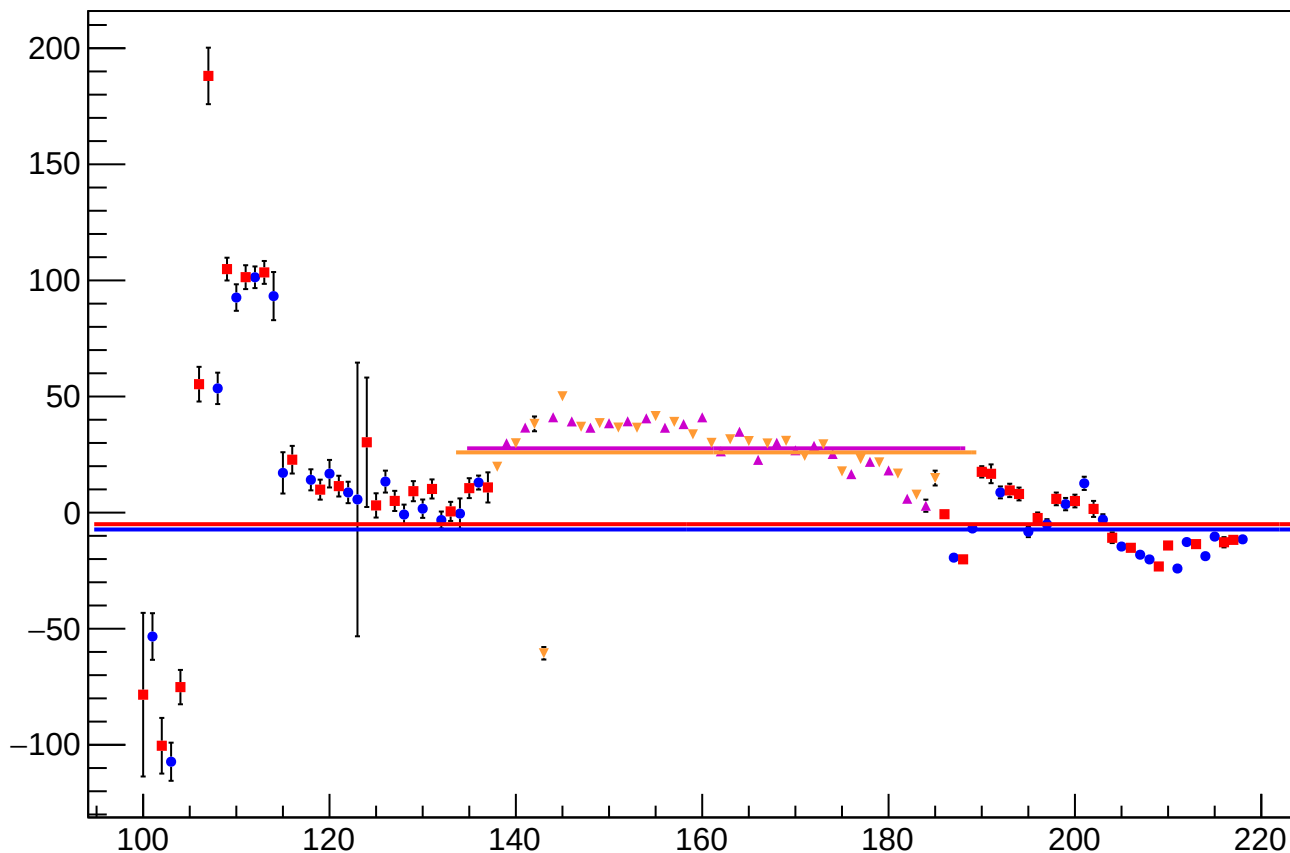
Right: -1.902 ± 0.347 χ^2/NDF : 274.7/68

In: -1.953 ± 0.259 χ^2/NDF : 231.7/55

Out: -2.158 ± 0.249 χ^2/NDF : 219.1/60

All: -2.060 ± 0.180 χ^2/NDF : 451.1/116

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -7.265 ± 0.478 χ^2/NDF : 1705.9/32

Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24

Right Out: -4.985 ± 0.427 χ^2/NDF : 2687.3/35

Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47

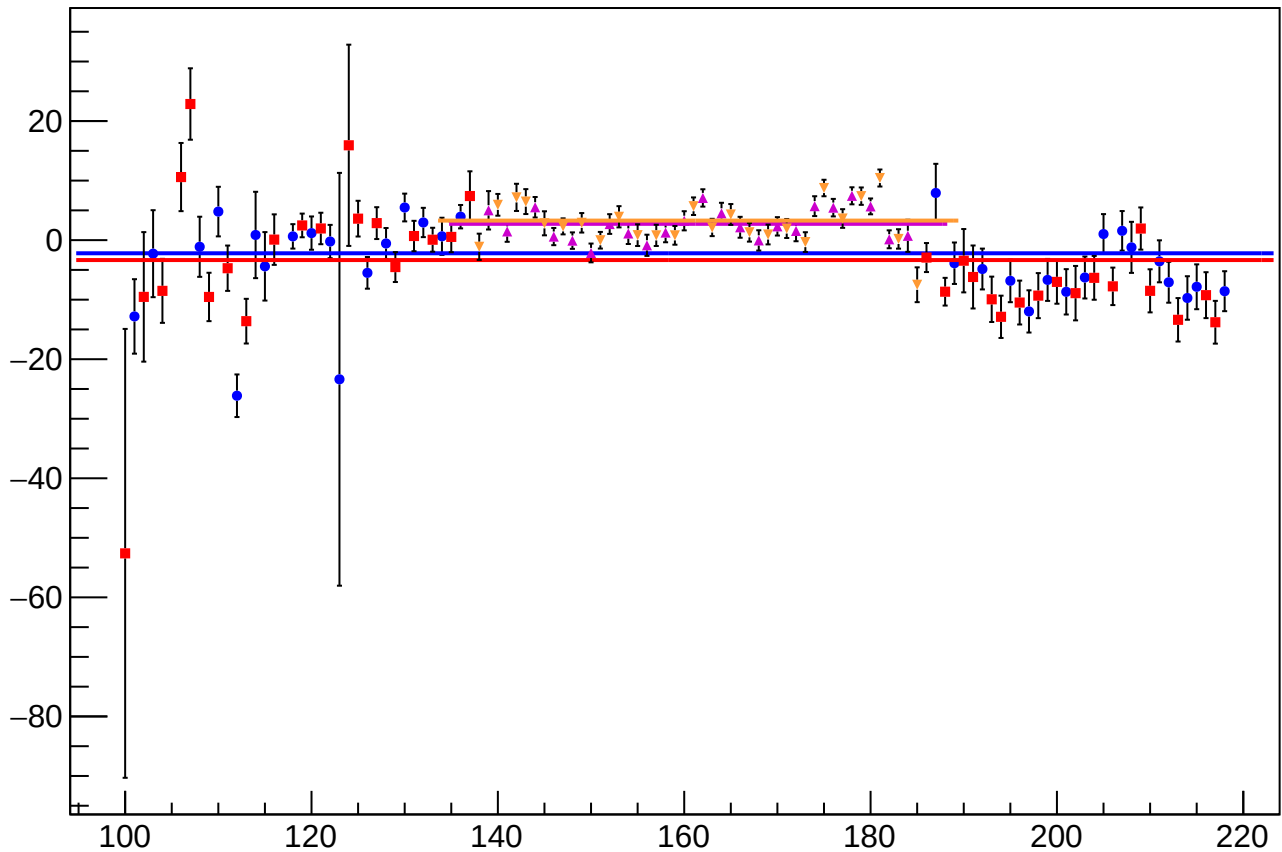
Right: -5.997 ± 0.318 χ^2/NDF : 4405.9/68

In: 14.221 ± 0.297 χ^2/NDF : 5796.6/55

Out: 12.574 ± 0.281 χ^2/NDF : 7379.8/60

All: 13.352 ± 0.204 χ^2/NDF : 13192.7/116

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -2.207 ± 0.578 χ^2/NDF : 117.6/32

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -3.346 ± 0.562 χ^2/NDF : 127.5/35

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

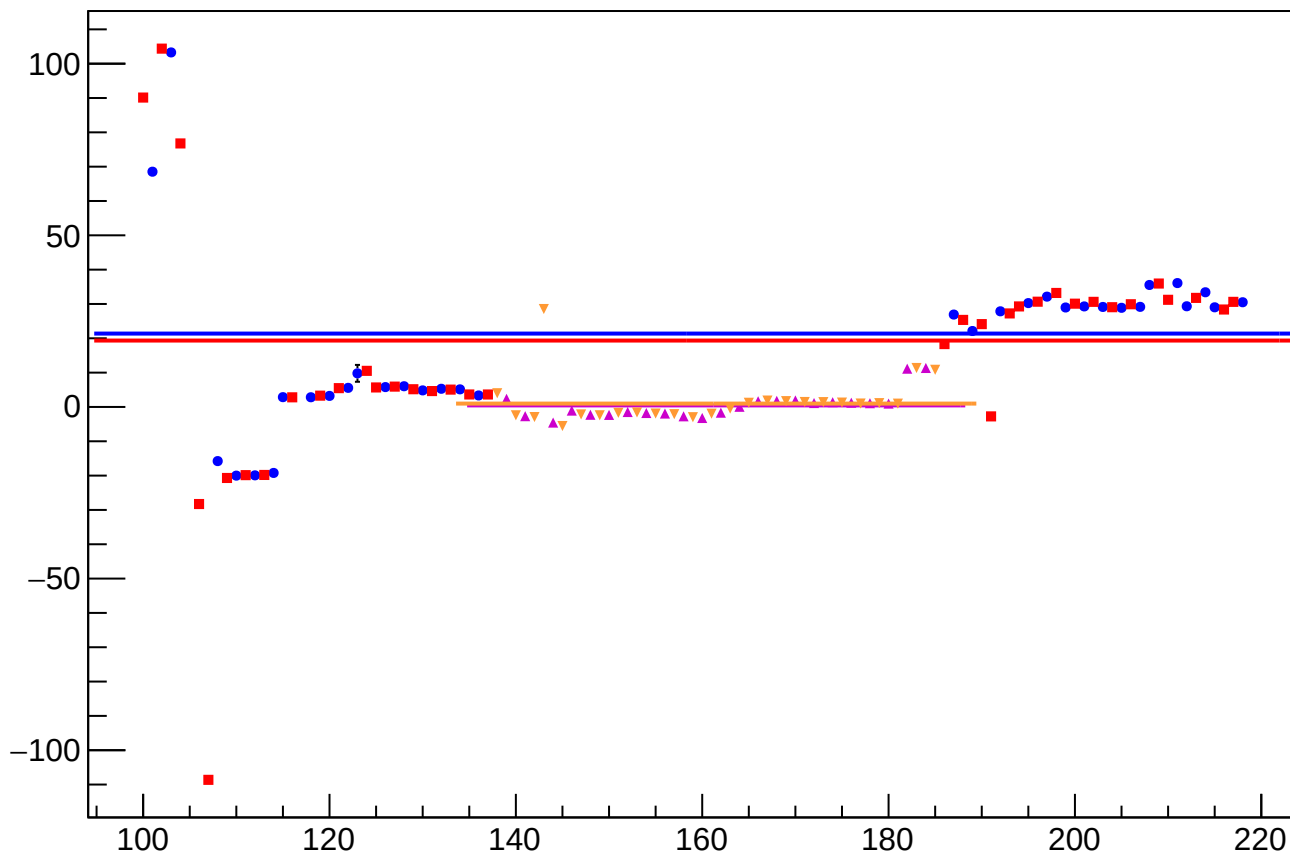
Right: -2.793 ± 0.403 χ^2/NDF : 247.1/68

In: 1.460 ± 0.294 χ^2/NDF : 236.3/55

Out: 1.572 ± 0.285 χ^2/NDF : 333.1/60

All: 1.518 ± 0.205 χ^2/NDF : 569.5/116

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 21.376+/-0.027 χ^2/NDF : 516465.0/32

Left Out: 0.979+/-0.015 χ^2/NDF : 117391.3/24

Right Out: 19.344+/-0.027 χ^2/NDF : 749909.1/35

Left In: 0.451+/-0.015 χ^2/NDF : 50699.8/22

Left: 0.719+/-0.011 χ^2/NDF : 168685.3/47

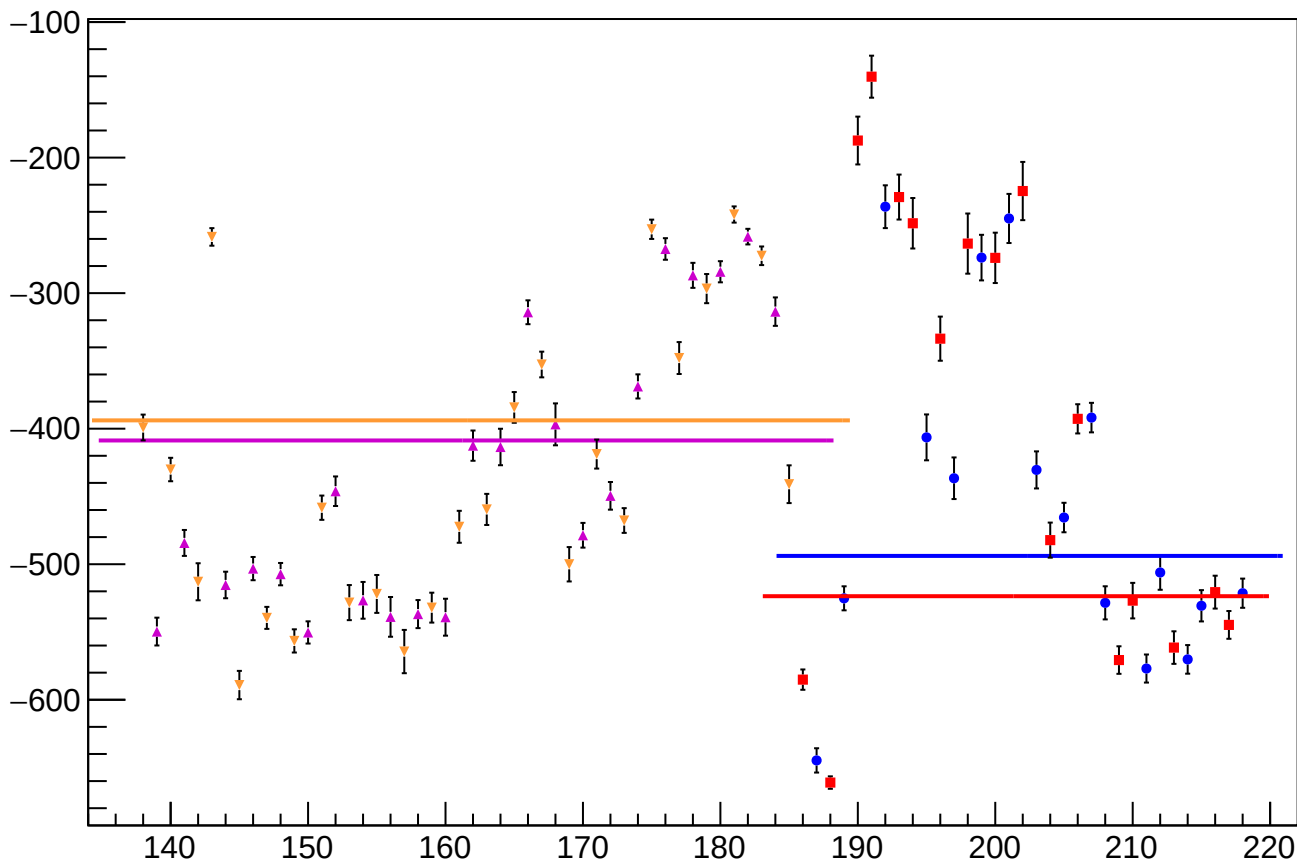
Right: 20.337+/-0.019 χ^2/NDF : 1269190.6/68

In: 5.497+/-0.013 χ^2/NDF : 1010530.5/55

Out: 5.454+/-0.013 χ^2/NDF : 1223458.9/60

All: 5.475+/-0.009 χ^2/NDF : 2233994.4/116

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -493.865 $\pm$ 2.975 χ^2 /NDF: 1221.2/15

Left Out: -393.871 $\pm$ 1.897 χ^2 /NDF:3772.8/24

Right Out: -523.596 $\pm$ 2.642 χ^2 /NDF: 3312.8/16

Left In: -408.696 $\pm$ 1.979 χ^2 /NDF:3062.9/22

Left: -400.970 $\pm$ 1.369 χ^2 /NDF: 6864.9/47

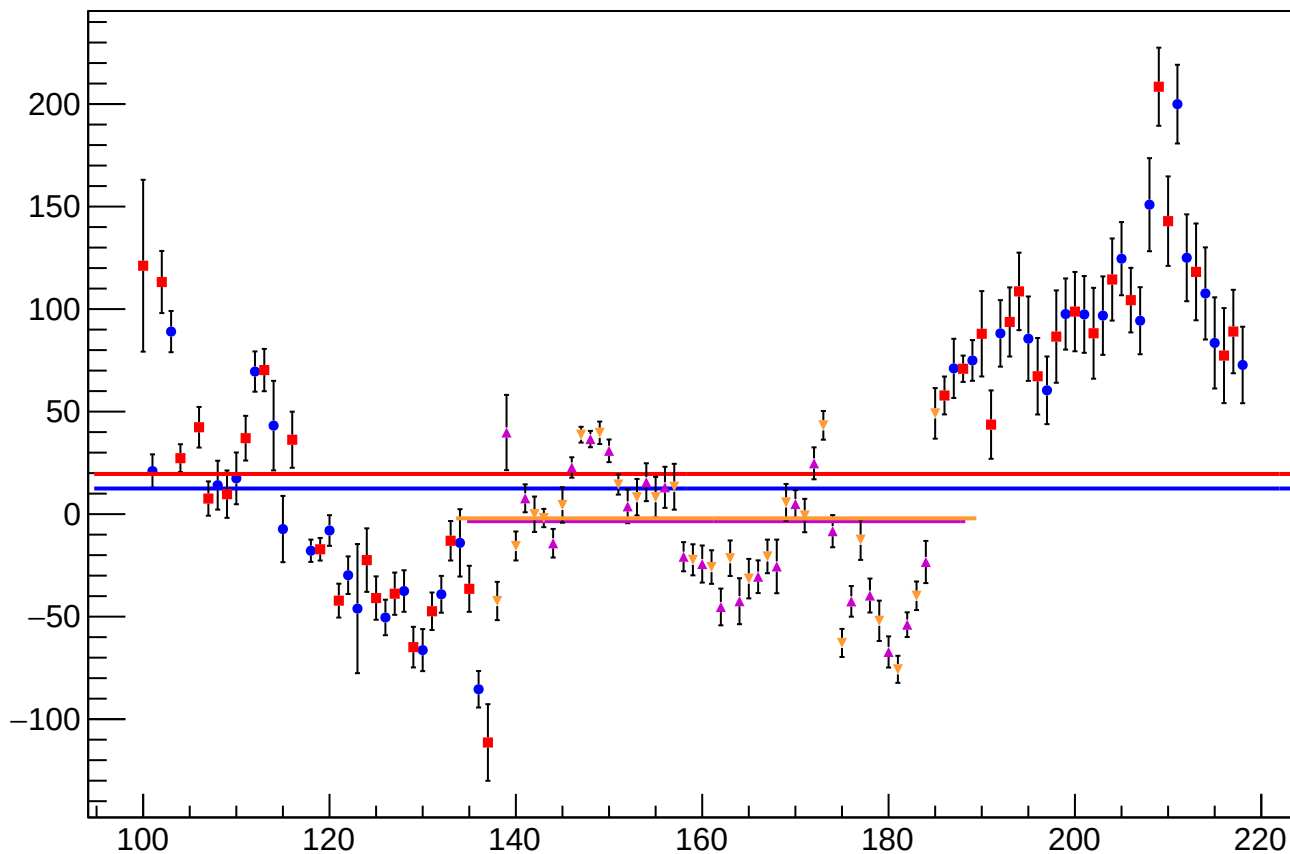
Right: -510.486 $\pm$ 1.975 χ^2 /NDF: 4589.8/32

In: -434.828 $\pm$ 1.648 χ^2 /NDF:4852.3/38

Out: -438.007 $\pm$ 1.541 χ^2 /NDF:8676.6/41

All: -436.524 $\pm$ 1.125 χ^2 /NDF: 13530.9/80

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.497 ± 2.063 $\chi^2/\text{NDF}: 879.4/32$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 19.589 ± 1.922 $\chi^2/\text{NDF}: 859.8/35$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

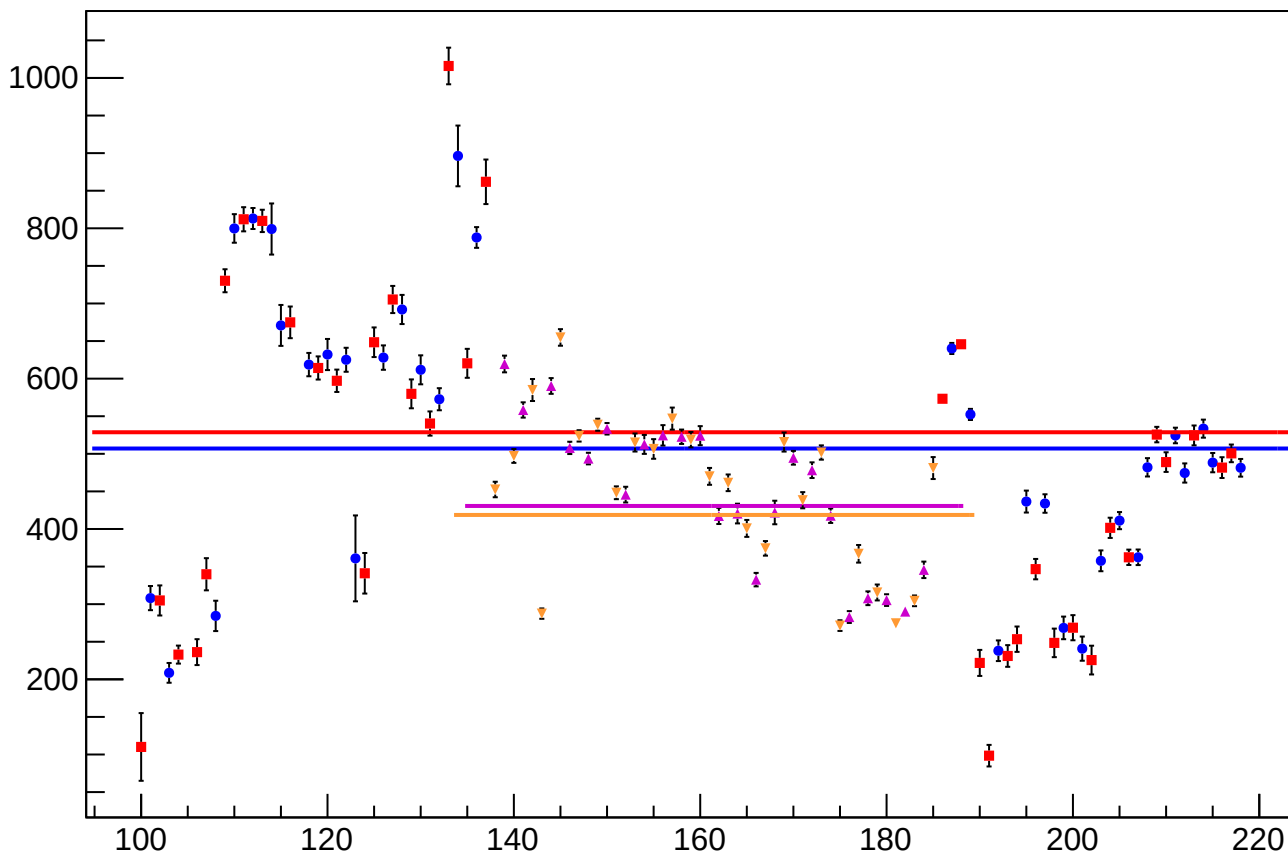
Right: 16.294 ± 1.406 $\chi^2/\text{NDF}: 1745.5/68$

In: 2.180 ± 1.224 $\chi^2/\text{NDF}: 1369.0/55$

Out: 5.629 ± 1.144 $\chi^2/\text{NDF}: 1505.3/60$

All: 4.020 ± 0.836 $\chi^2/\text{NDF}: 2878.5/116$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 507.051+/-2.365 χ^2/NDF : 4209.4/32

Left Out: 418.680+/-1.905 χ^2/NDF : 3296.5/24

Right Out: 528.684+/-2.044 χ^2/NDF : 7106.2/35

Left In: 430.640+/-1.971 χ^2/NDF : 2850.6/22

Left: 424.457+/-1.370 χ^2/NDF : 6166.1/47

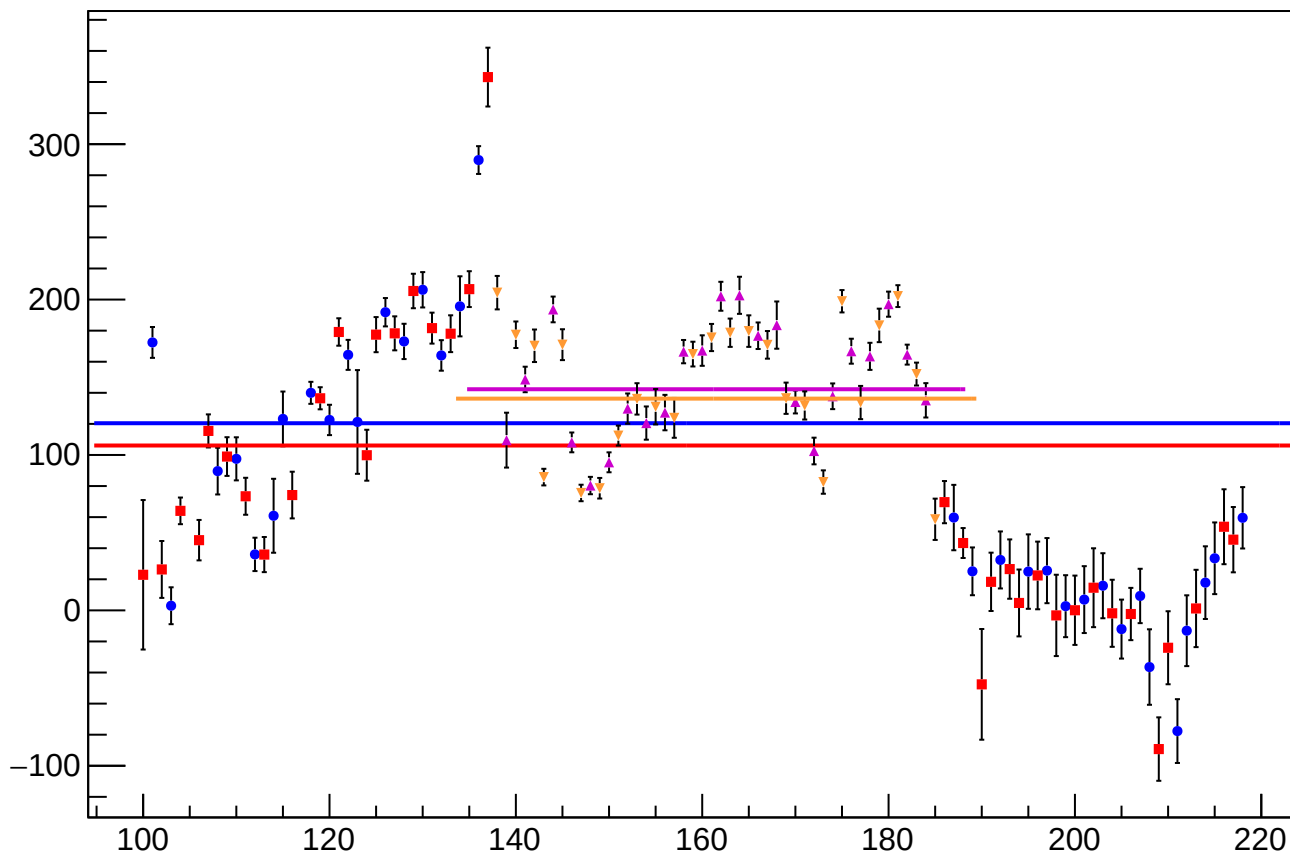
Right: 519.430+/-1.547 χ^2/NDF : 11363.5/68

In: 461.960+/-1.514 χ^2/NDF : 7676.1/55

Out: 469.802+/-1.394 χ^2/NDF : 11952.6/60

All: 466.205+/-1.025 χ^2/NDF : 19643.2/116

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 120.428+/-2.395 χ^2/NDF : 1257.1/32

Left Out: 136.258+/-1.651 χ^2/NDF : 758.3/24

Right Out: 106.088+/-2.276 χ^2/NDF : 1114.7/35

Left In: 142.296+/-1.745 χ^2/NDF : 459.8/22

Left: 139.111+/-1.199 χ^2/NDF : 1224.4/47

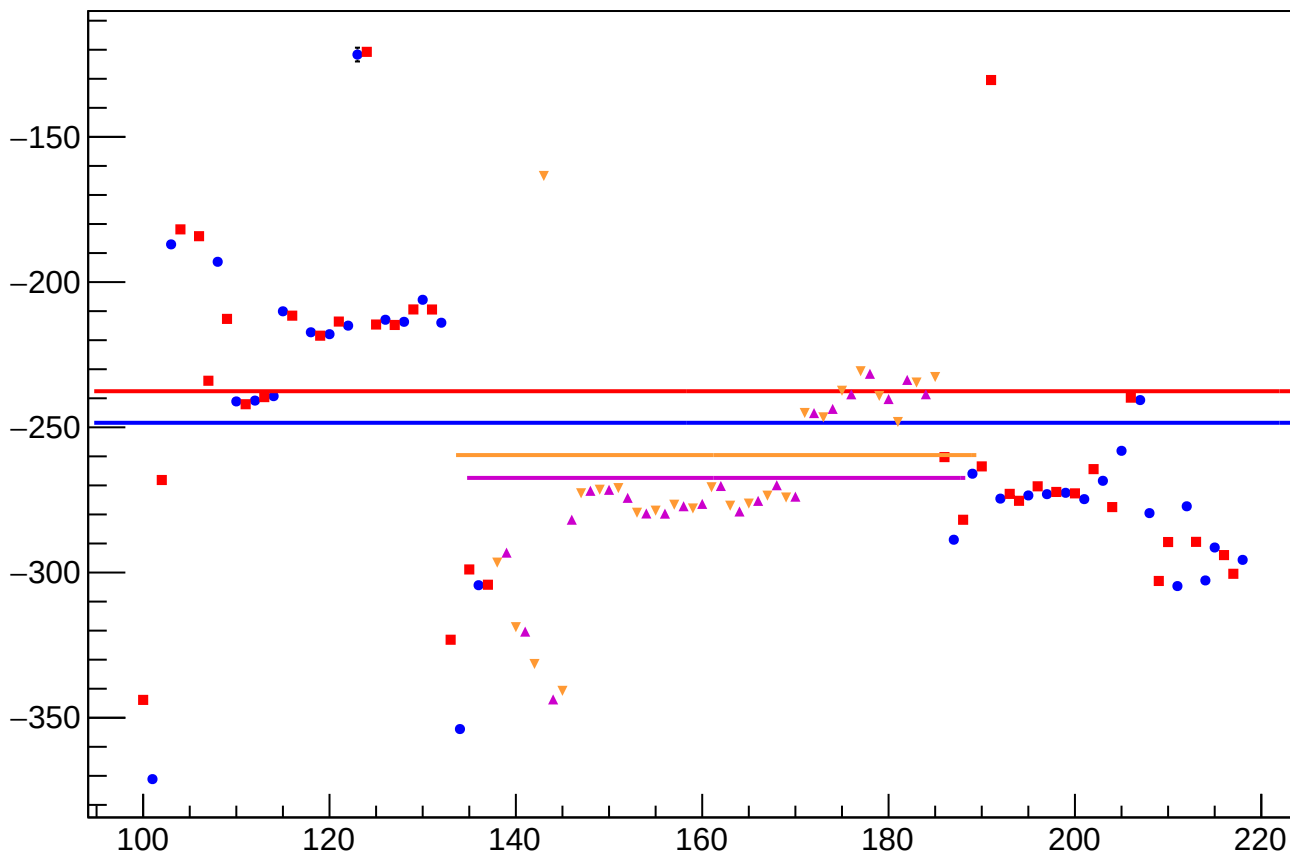
Right: 112.894+/-1.650 χ^2/NDF : 2390.6/68

In: 134.713+/-1.410 χ^2/NDF : 1771.3/55

Out: 125.856+/-1.336 χ^2/NDF : 1988.1/60

All: 130.047+/-0.970 χ^2/NDF : 3780.2/116

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -248.439 ± 0.119 $\chi^2/\text{NDF}: 174405.0/32$

Left Out: -259.557 ± 0.079 $\chi^2/\text{NDF}: 238235.2/24$

Right Out: -237.571 ± 0.112 $\chi^2/\text{NDF}: 187765.0/35$

Left In: -267.417 ± 0.082 $\chi^2/\text{NDF}: 98035.5/22$

Left: -263.361 ± 0.057 $\chi^2/\text{NDF}: 341051.4/47$

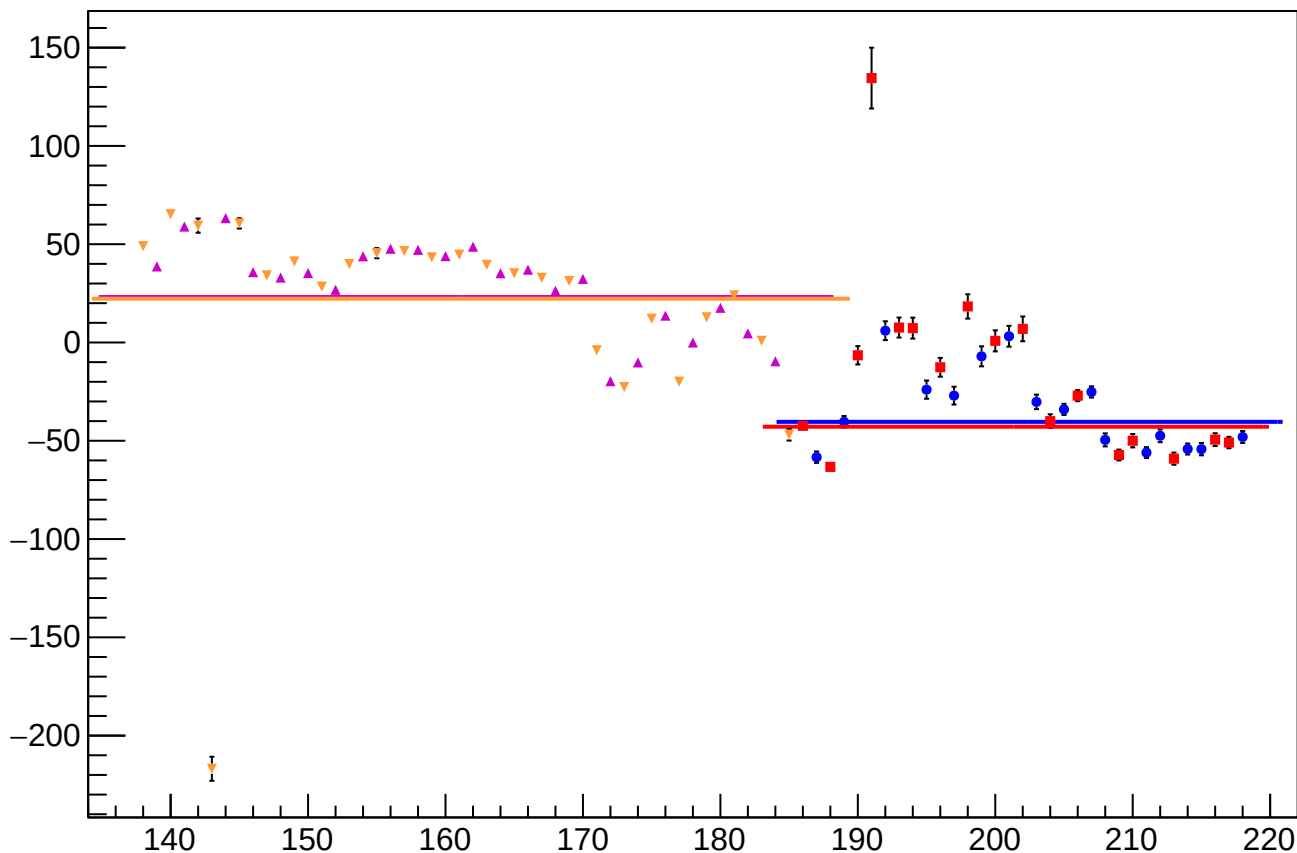
Right: -242.644 ± 0.081 $\chi^2/\text{NDF}: 366602.8/68$

In: -261.354 ± 0.067 $\chi^2/\text{NDF}: 289691.9/55$

Out: -252.201 ± 0.065 $\chi^2/\text{NDF}: 451857.2/60$

All: -256.579 ± 0.047 $\chi^2/\text{NDF}: 751177.9/116$

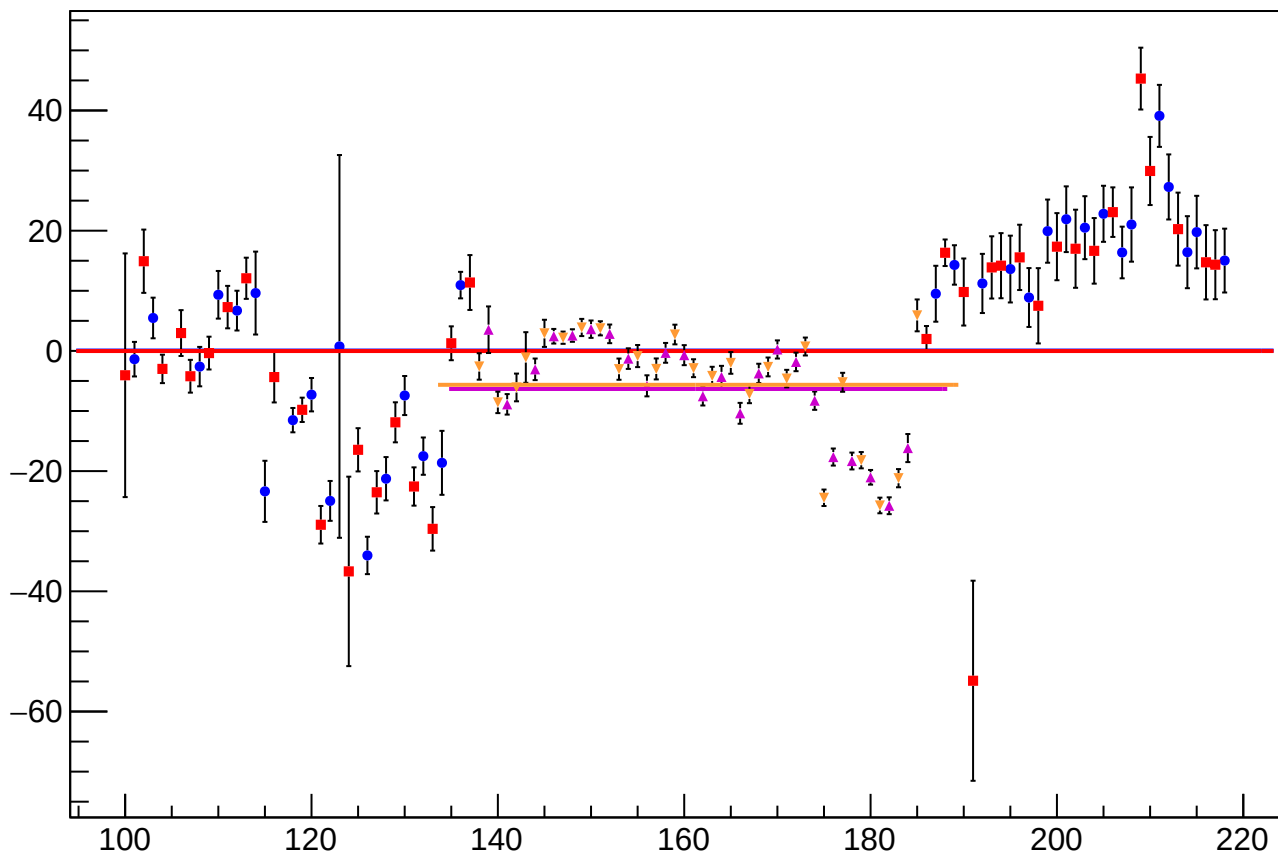
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -40.378 ± 0.841 $\chi^2/\text{NDF}: 398.7/15$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -42.857 ± 0.758 $\chi^2/\text{NDF}: 920.2/16$
 Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$
 Right: -41.745 ± 0.563 $\chi^2/\text{NDF}: 1323.7/32$
 In: 11.347 ± 0.362 $\chi^2/\text{NDF}: 7789.5/38$
 Out: 8.172 ± 0.353 $\chi^2/\text{NDF}: 11870.1/41$
 All: 9.718 ± 0.253 $\chi^2/\text{NDF}: 19699.0/80$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.059 ± 0.667 $\chi^2/\text{NDF}: 603.0/32$

Left Out: -5.642 ± 0.316 $\chi^2/\text{NDF}: 893.7/24$

Right Out: -0.024 ± 0.619 $\chi^2/\text{NDF}: 625.3/35$

Left In: -6.337 ± 0.321 $\chi^2/\text{NDF}: 783.0/22$

Left: -5.983 ± 0.225 $\chi^2/\text{NDF}: 1679.1/47$

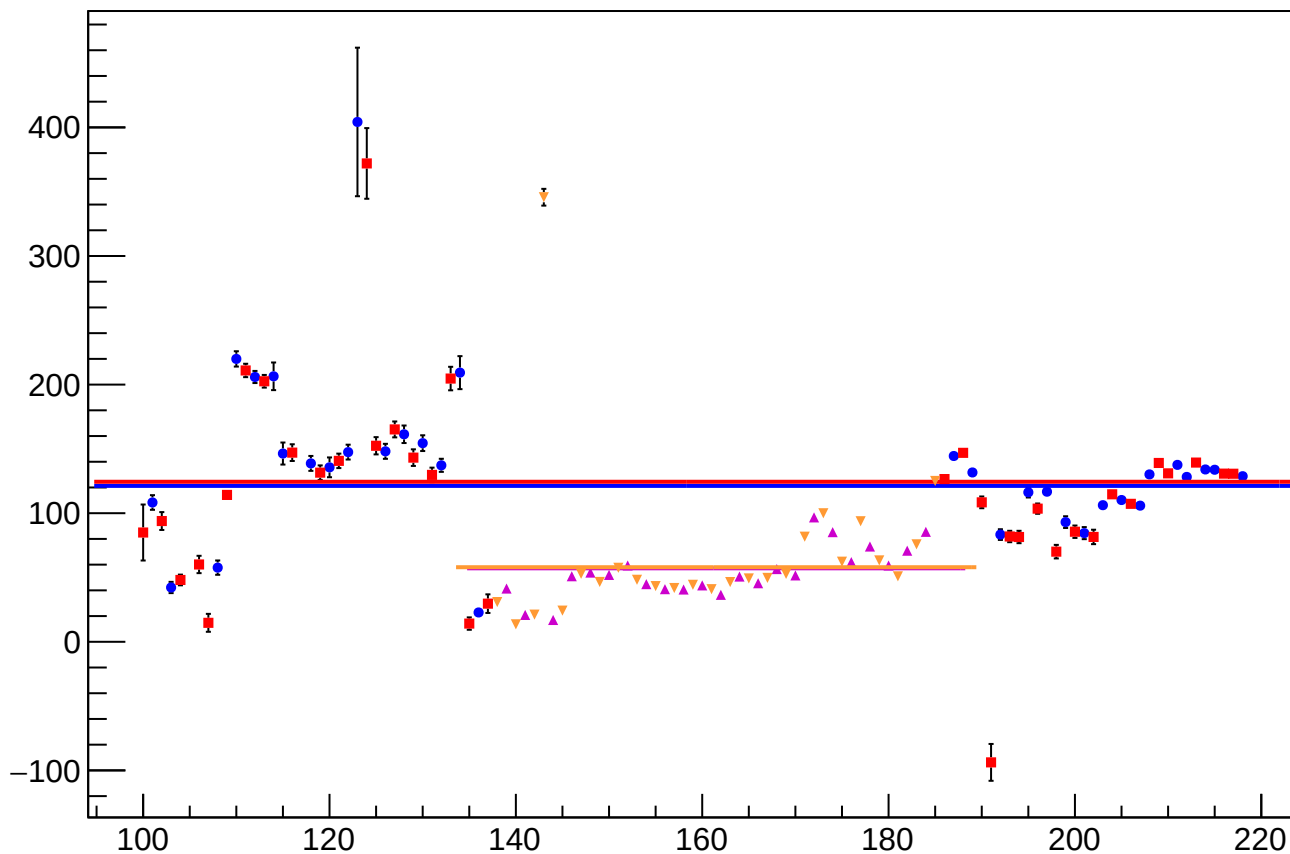
Right: 0.014 ± 0.454 $\chi^2/\text{NDF}: 1228.4/68$

In: -5.132 ± 0.289 $\chi^2/\text{NDF}: 1460.7/55$

Out: -4.483 ± 0.281 $\chi^2/\text{NDF}: 1584.5/60$

All: -4.798 ± 0.202 $\chi^2/\text{NDF}: 3047.7/116$

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 121.237 $\pm$ 0.703 χ^2 /NDF: 2607.7/32

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 124.447 $\pm$ 0.610 χ^2 /NDF: 3279.2/35

Left In: 57.139 $\pm$ 0.400 χ^2 /NDF:1803.4/22

Left: 57.566 $\pm$ 0.282 χ^2 /NDF: 6441.4/47

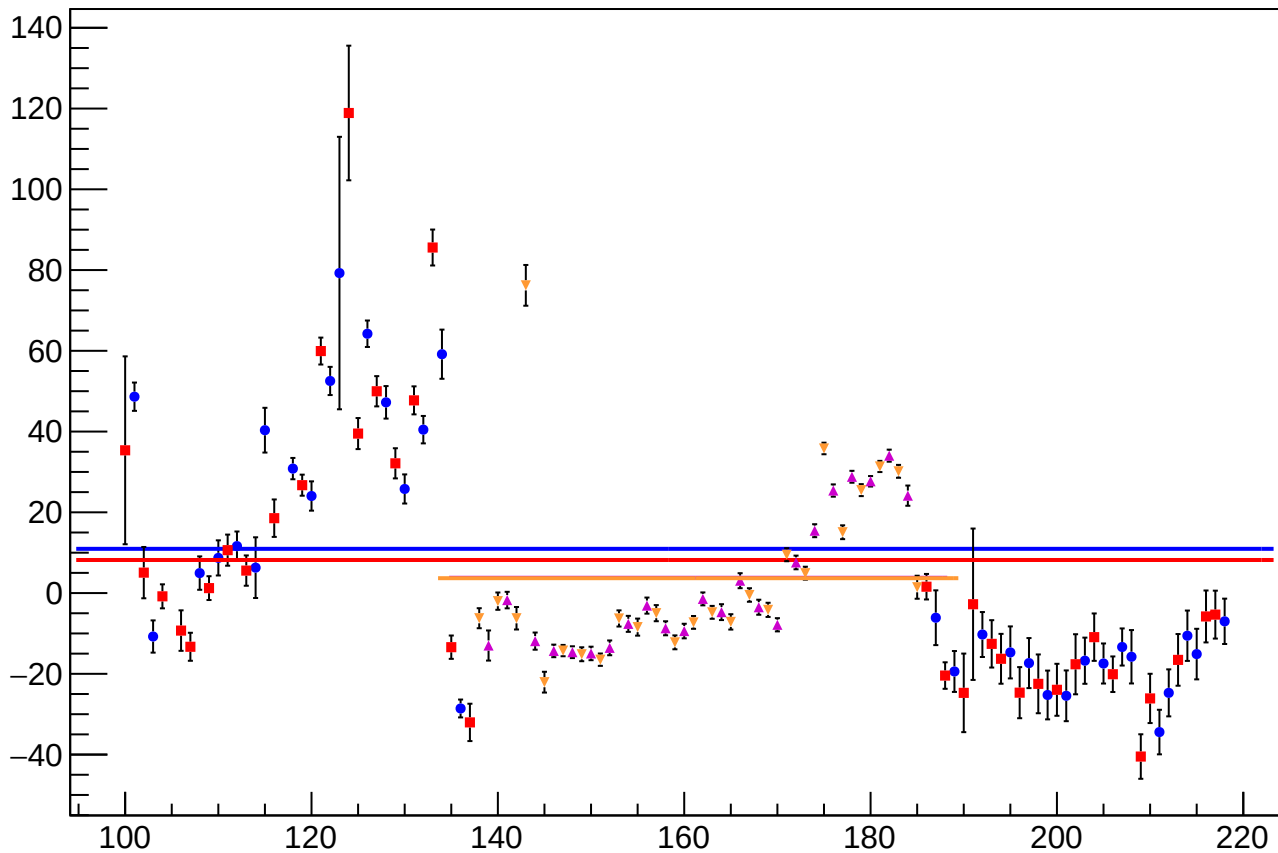
Right: 123.067 $\pm$ 0.461 χ^2 /NDF: 5898.8/68

In: 72.790 $\pm$ 0.347 χ^2 /NDF:10695.1/55

Out: 77.807 $\pm$ 0.333 χ^2 /NDF:16231.5/60

All: 75.402 $\pm$ 0.241 χ^2 /NDF: 27035.2/116

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.957 ± 0.763 χ^2/NDF : 1619.4/32

Left Out: 3.684 ± 0.357 χ^2/NDF : 2541.7/24

Right Out: 8.193 ± 0.730 χ^2/NDF : 1592.1/35

Left In: 3.786 ± 0.362 χ^2/NDF : 2198.8/22

Left: 3.734 ± 0.254 χ^2/NDF : 4740.5/47

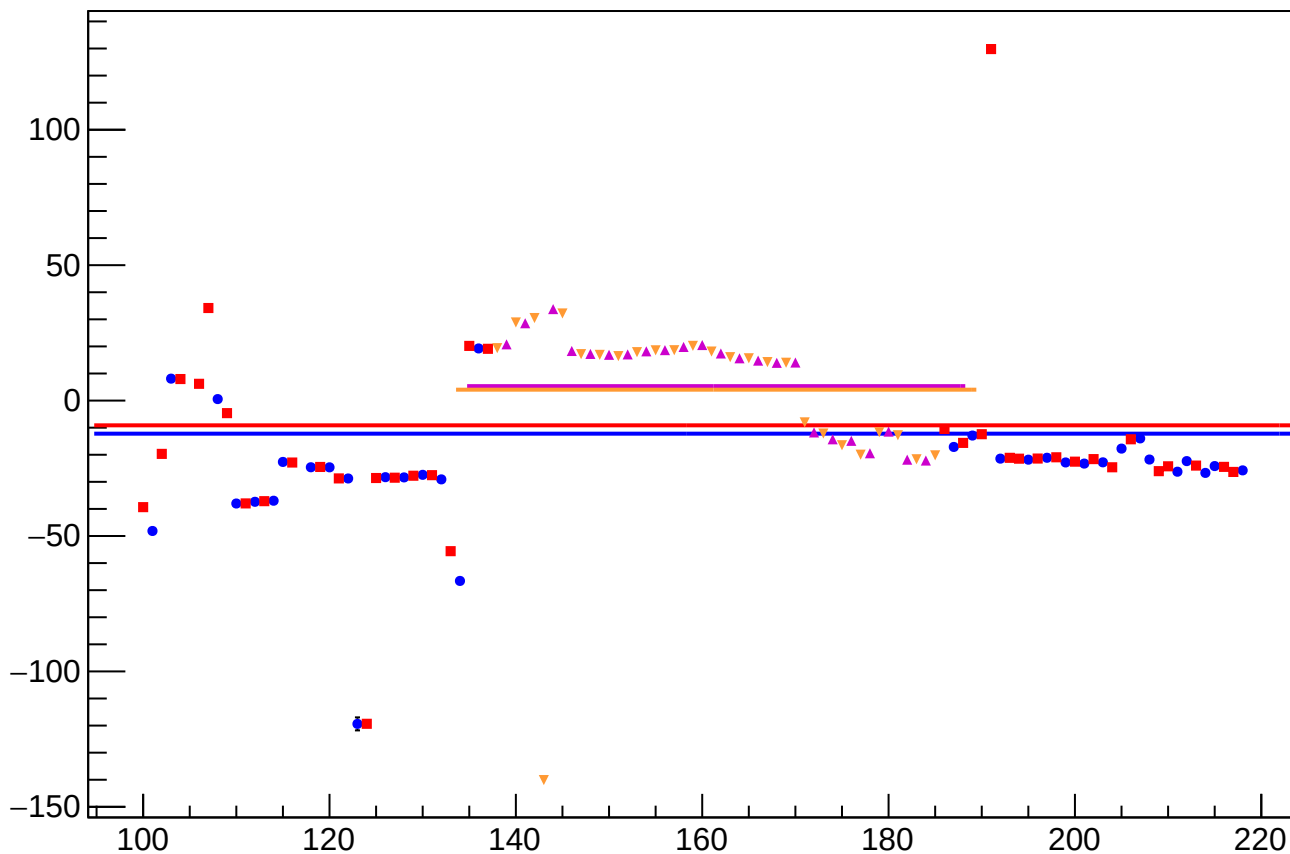
Right: 9.512 ± 0.527 χ^2/NDF : 3218.4/68

In: 5.101 ± 0.327 χ^2/NDF : 3890.3/55

Out: 4.554 ± 0.320 χ^2/NDF : 4164.6/60

All: 4.822 ± 0.229 χ^2/NDF : 8056.3/116

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -12.215 $\pm$ 0.036 χ^2/NDF : 308854.5/32

Left Out: 4.026 $\pm$ 0.016 χ^2/NDF :1383143.9/24

Right Out: -9.136 $\pm$ 0.035 χ^2/NDF : 401699.3/35

Left In: 5.335 $\pm$ 0.016 χ^2/NDF :1077818.8/22

Left: 4.678 $\pm$ 0.012 χ^2/NDF : 2464153.9/47

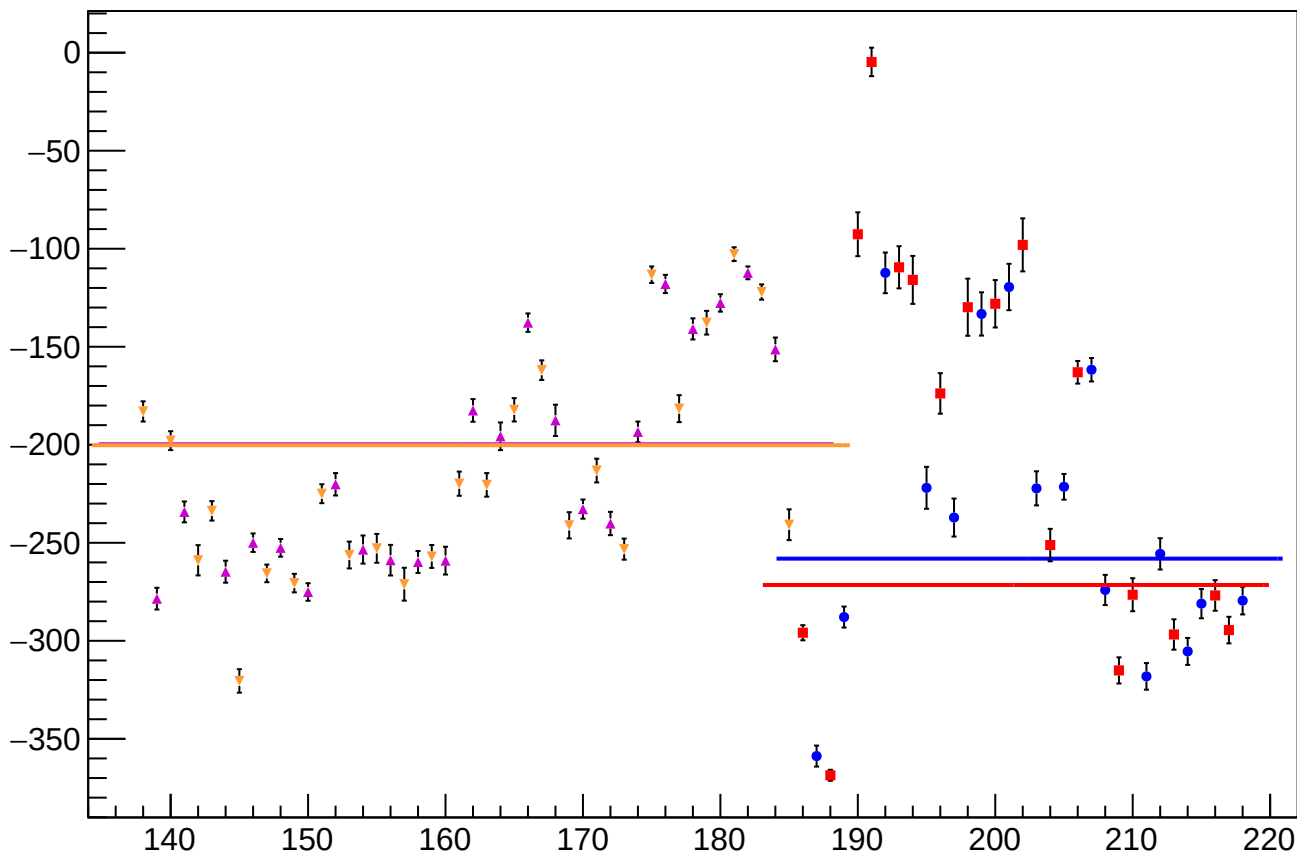
Right: -10.646 $\pm$ 0.025 χ^2/NDF : 714331.8/68

In: 2.278 $\pm$ 0.015 χ^2/NDF :1585586.9/55

Out: 1.675 $\pm$ 0.015 χ^2/NDF :1900399.1/60

All: 1.974 $\pm$ 0.011 χ^2/NDF : 3486808.0/116

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -258.086 ± 1.851 $\chi^2/\text{NDF}: 1320.1/15$

Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$

Right Out: -271.516 ± 1.584 $\chi^2/\text{NDF}: 4134.3/16$

Left In: -199.739 ± 1.097 $\chi^2/\text{NDF}: 2968.0/22$

Left: -199.988 ± 0.769 $\chi^2/\text{NDF}: 6193.2/47$

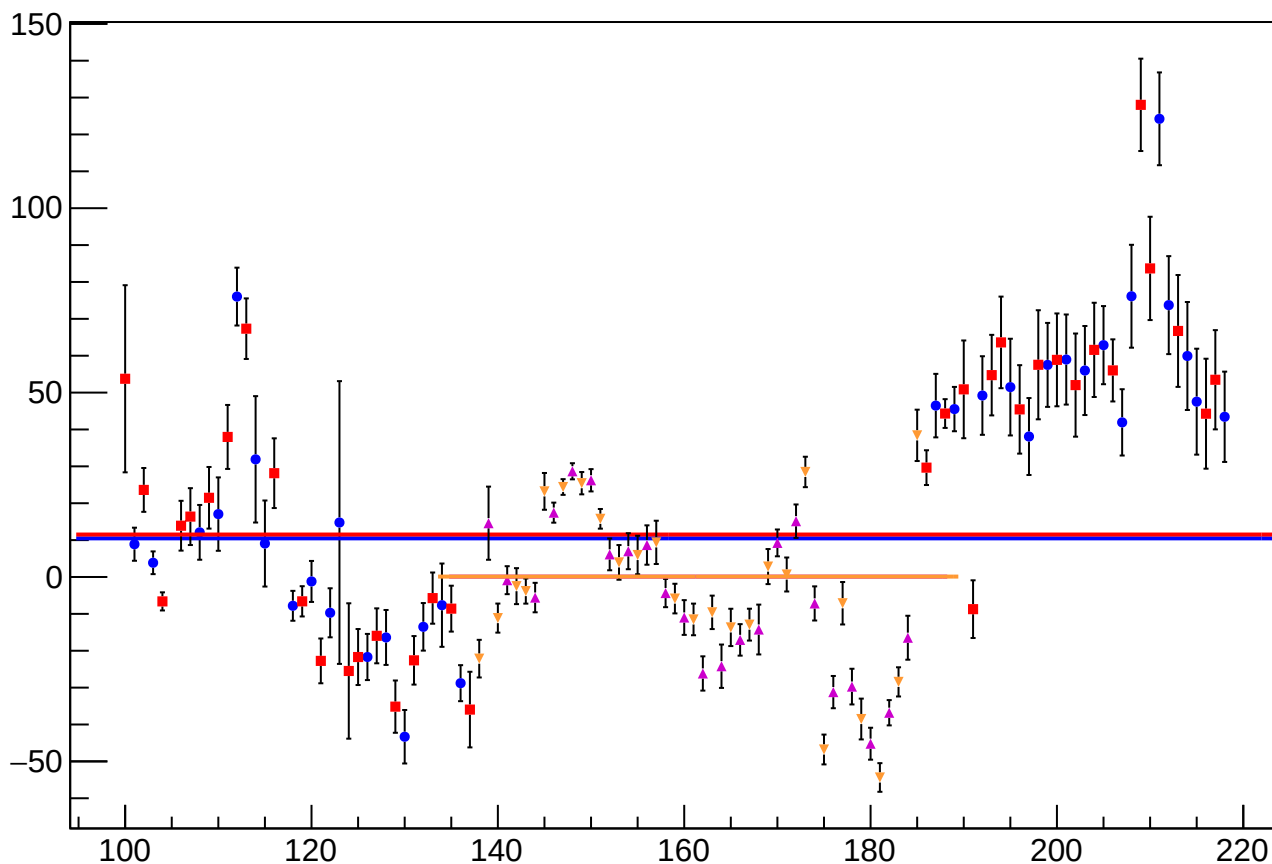
Right: -265.838 ± 1.204 $\chi^2/\text{NDF}: 5484.8/32$

In: -214.911 ± 0.944 $\chi^2/\text{NDF}: 5023.2/38$

Out: -222.781 ± 0.891 $\chi^2/\text{NDF}: 8743.2/41$

All: -219.072 ± 0.648 $\chi^2/\text{NDF}: 13803.2/80$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.473 ± 1.287 $\chi^2/\text{NDF}: 603.3/32$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 11.513 ± 1.172 $\chi^2/\text{NDF}: 677.2/35$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

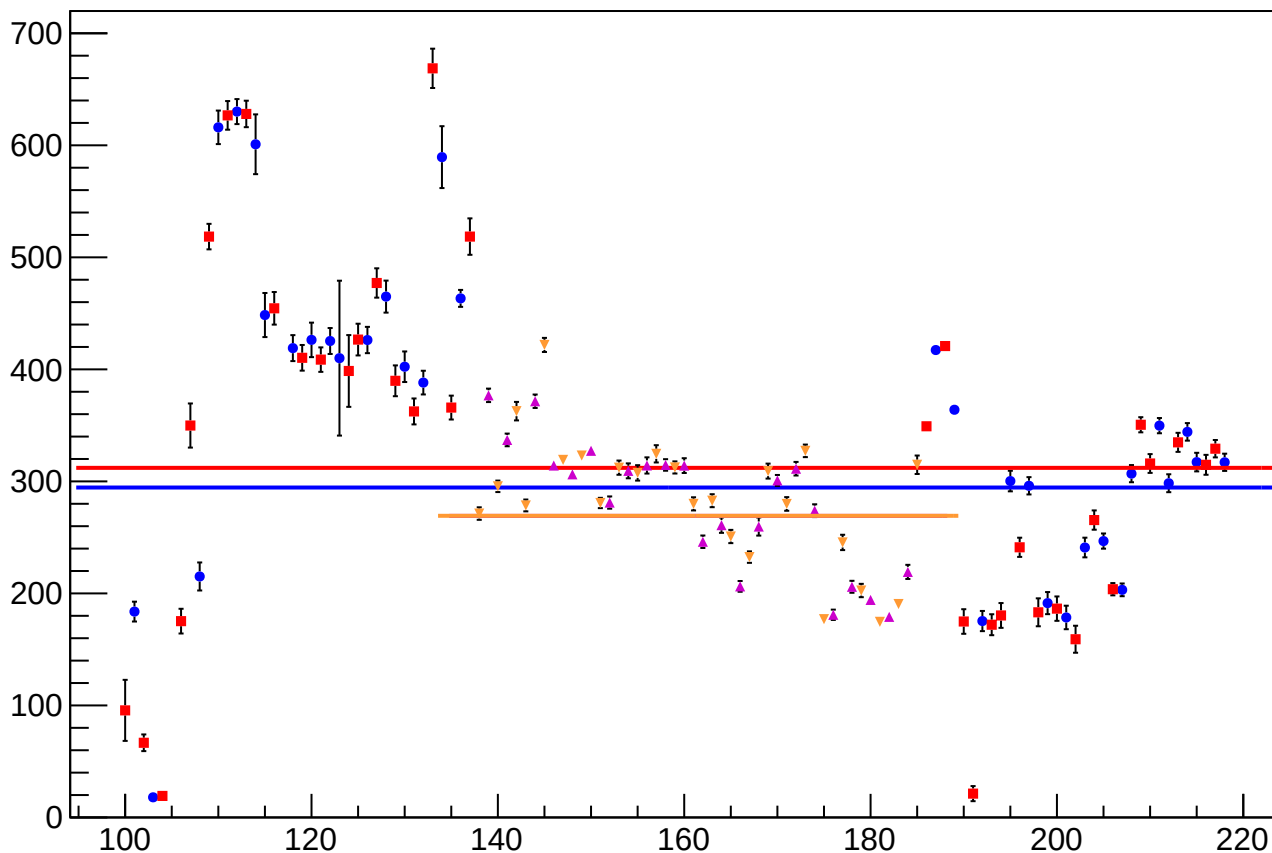
Right: 11.041 ± 0.866 $\chi^2/\text{NDF}: 1280.8/68$

In: 3.187 ± 0.702 $\chi^2/\text{NDF}: 1364.4/55$

Out: 3.779 ± 0.665 $\chi^2/\text{NDF}: 1572.7/60$

All: 3.499 ± 0.483 $\chi^2/\text{NDF}: 2937.5/116$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 294.523+/-1.427 χ^2/NDF : 9654.0/32

Left Out: 269.278+/-1.078 χ^2/NDF :3146.7/24

Right Out: 312.082+/-1.214 χ^2/NDF : 14408.7/35

Left In: 269.191+/-1.091 χ^2/NDF :3170.2/22

Left: 269.235+/-0.767 χ^2/NDF : 6316.9/47

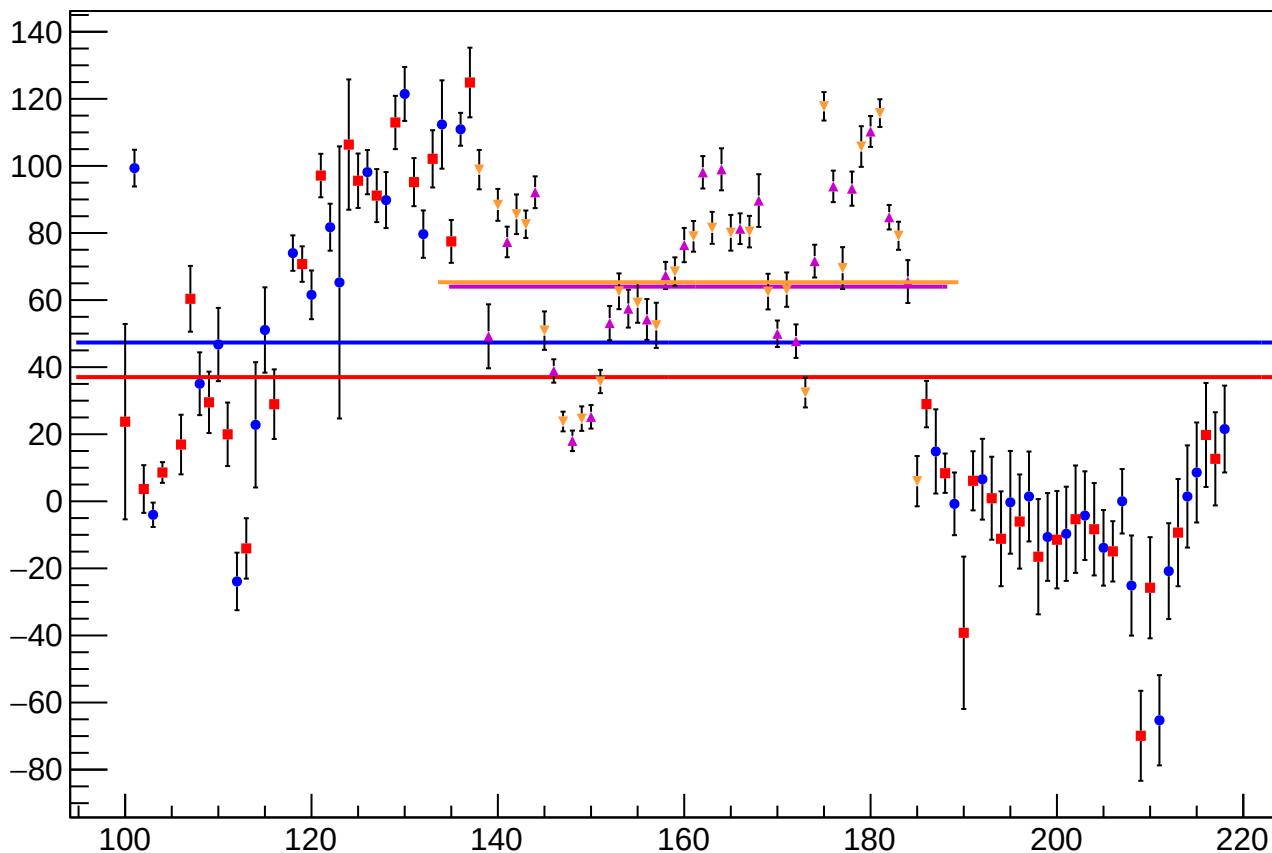
Right: 304.708+/-0.925 χ^2/NDF : 24150.5/68

In: 278.534+/-0.866 χ^2/NDF :13023.1/55

Out: 288.141+/-0.806 χ^2/NDF :18250.7/60

All: 283.684+/-0.590 χ^2/NDF : 31339.8/116

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.345 $\pm$ 1.496 χ^2 /NDF: 1106.7/32

Left Out: 65.323 $\pm$ 0.935 χ^2 /NDF:1007.1/24

Right Out: 37.035 $\pm$ 1.408 χ^2 /NDF: 964.1/35

Left In: 63.999 $\pm$ 0.963 χ^2 /NDF:799.5/22

Left: 64.681 $\pm$ 0.671 χ^2 /NDF: 1807.5/47

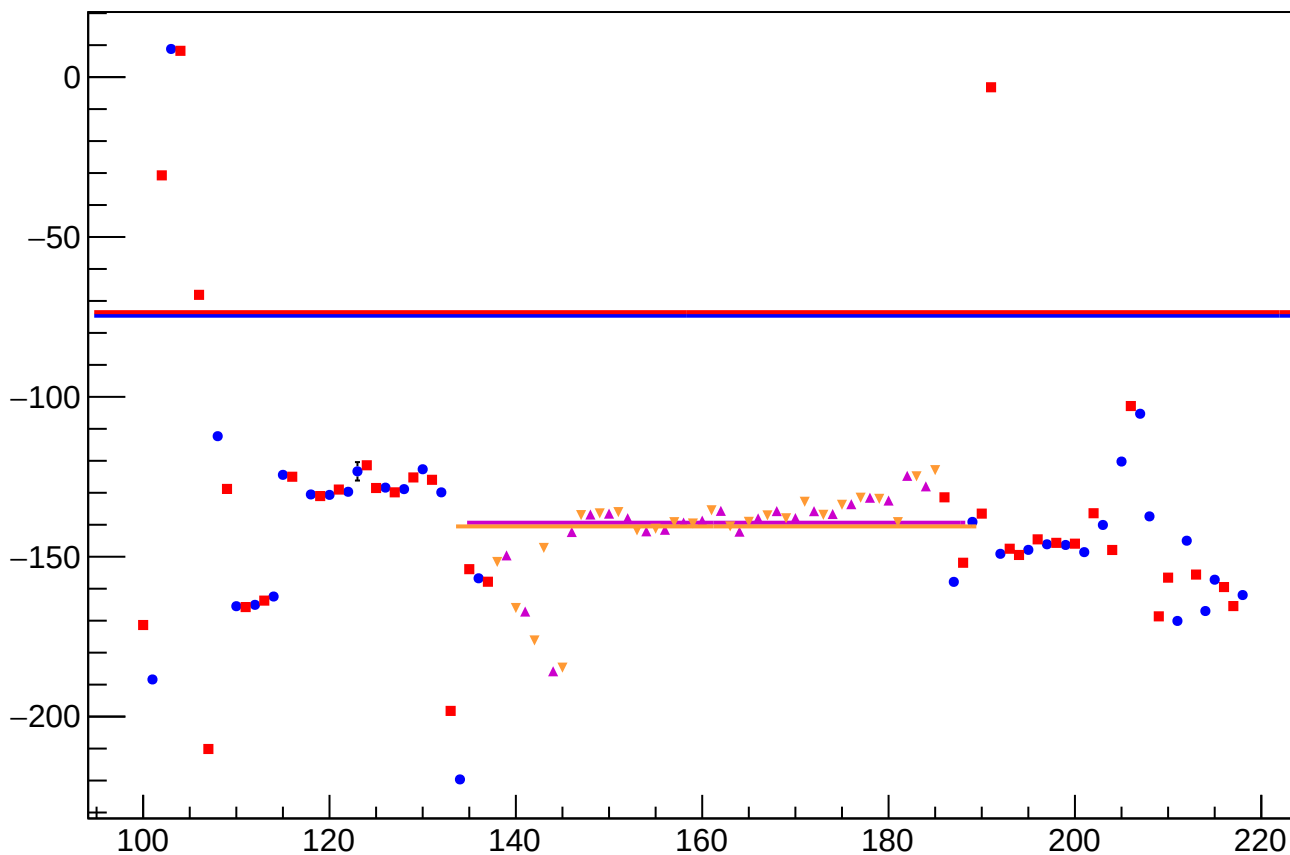
Right: 41.879 $\pm$ 1.025 χ^2 /NDF: 2095.9/68

In: 59.120 $\pm$ 0.810 χ^2 /NDF:1993.8/55

Out: 56.673 $\pm$ 0.779 χ^2 /NDF:2251.3/60

All: 57.849 $\pm$ 0.561 χ^2 /NDF: 4249.8/116

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -74.618 ± 0.061 $\chi^2/\text{NDF}: 1623744.6/32$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -73.508 ± 0.060 $\chi^2/\text{NDF}: 1458157.4/35$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

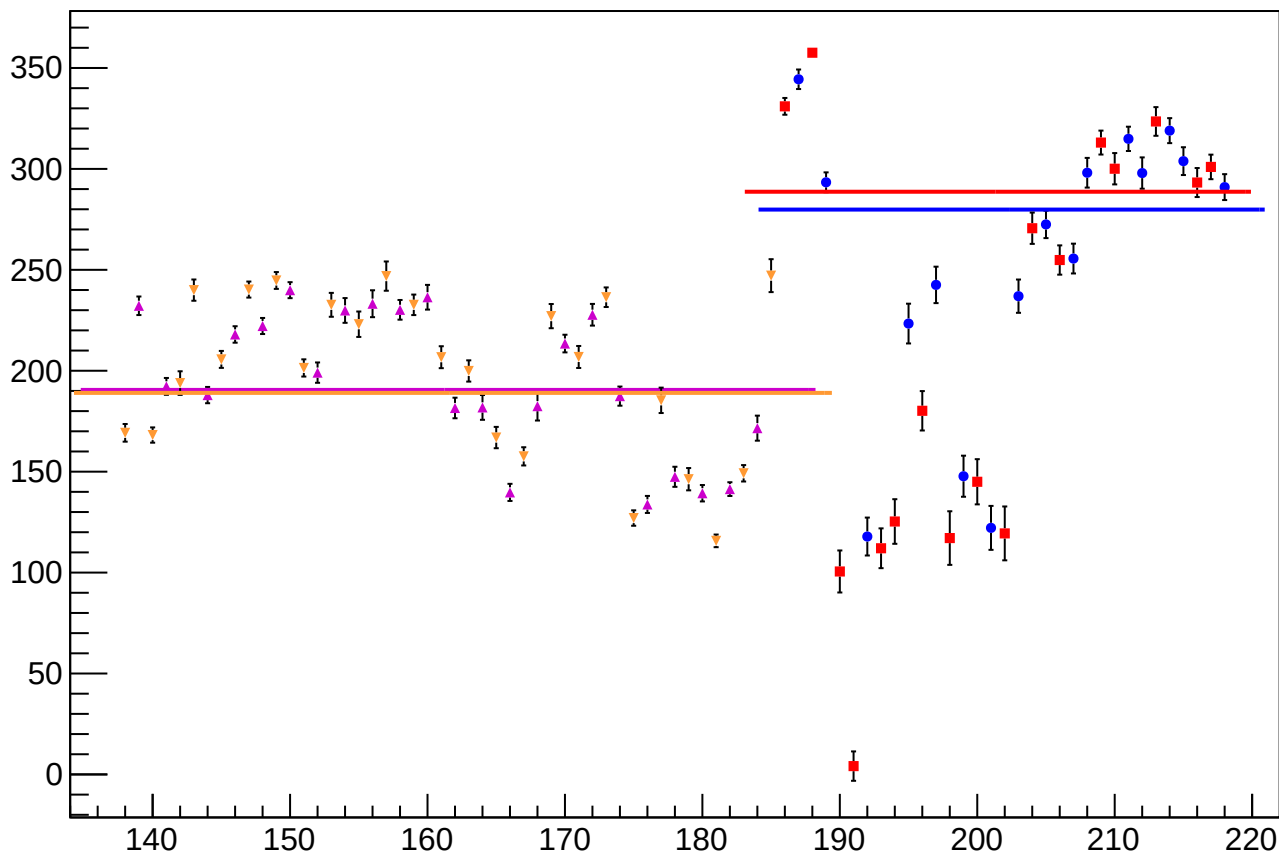
Right: -74.050 ± 0.043 $\chi^2/\text{NDF}: 3082069.7/68$

In: -116.688 ± 0.036 $\chi^2/\text{NDF}: 2410730.5/55$

Out: -116.642 ± 0.036 $\chi^2/\text{NDF}: 2341692.5/60$

All: -116.665 ± 0.025 $\chi^2/\text{NDF}: 4752423.8/111$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 279.851 $\pm$ 1.754 χ^2 /NDF: 1050.6/15

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 288.690 $\pm$ 1.507 χ^2 /NDF: 3945.1/16

Left In: 190.506 $\pm$ 0.975 χ^2 /NDF:1412.7/22

Left: 189.753 $\pm$ 0.683 χ^2 /NDF: 3394.8/47

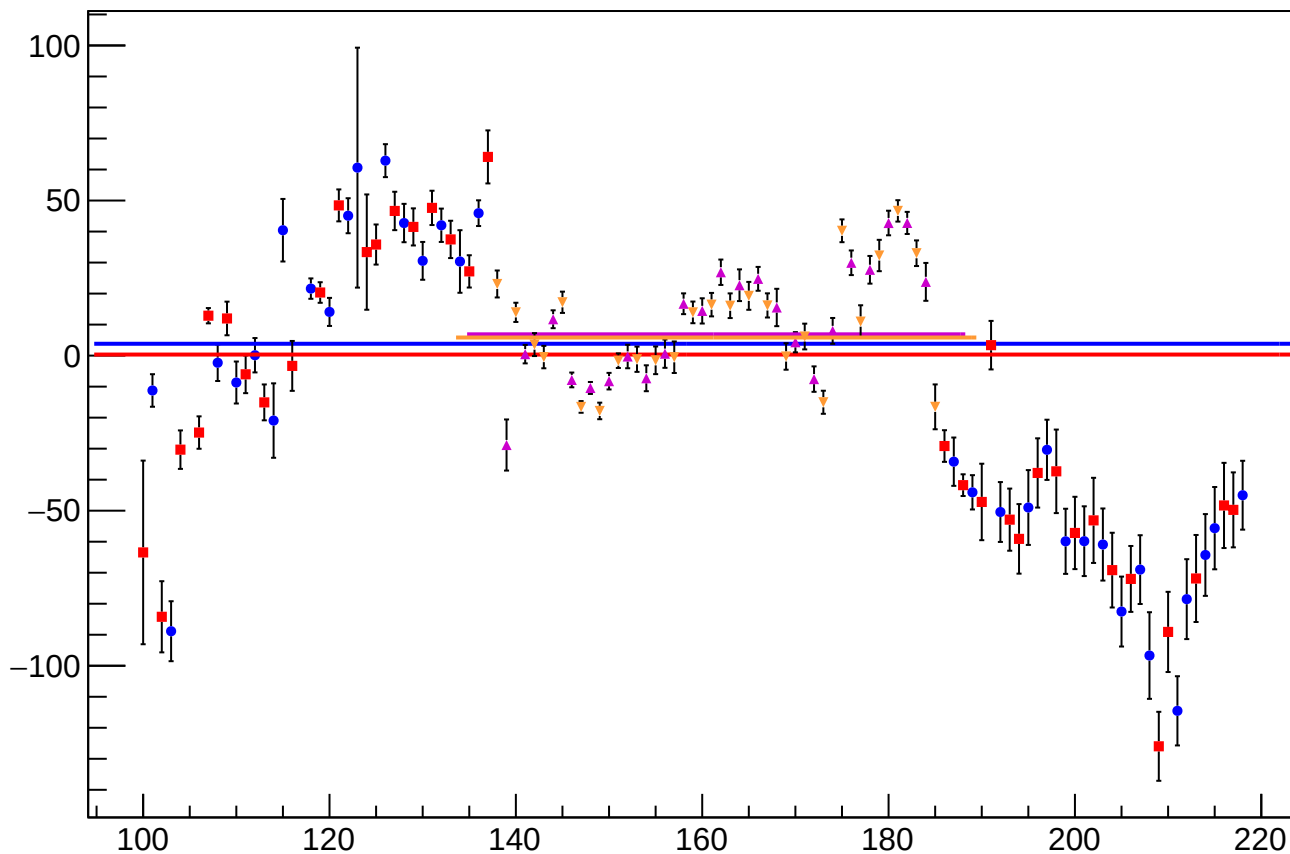
Right: 284.937 $\pm$ 1.143 χ^2 /NDF: 5010.3/32

In: 211.597 $\pm$ 0.852 χ^2 /NDF:4445.3/38

Out: 217.630 $\pm$ 0.807 χ^2 /NDF:9045.5/41

All: 214.777 $\pm$ 0.586 χ^2 /NDF: 13517.2/80

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.820 ± 1.223 $\chi^2/\text{NDF}: 1190.4/32$

Left Out: 5.834 ± 0.712 $\chi^2/\text{NDF}: 652.2/24$

Right Out: 0.341 ± 1.056 $\chi^2/\text{NDF}: 1220.0/35$

Left In: 6.862 ± 0.736 $\chi^2/\text{NDF}: 522.7/22$

Left: 6.331 ± 0.512 $\chi^2/\text{NDF}: 1176.0/47$

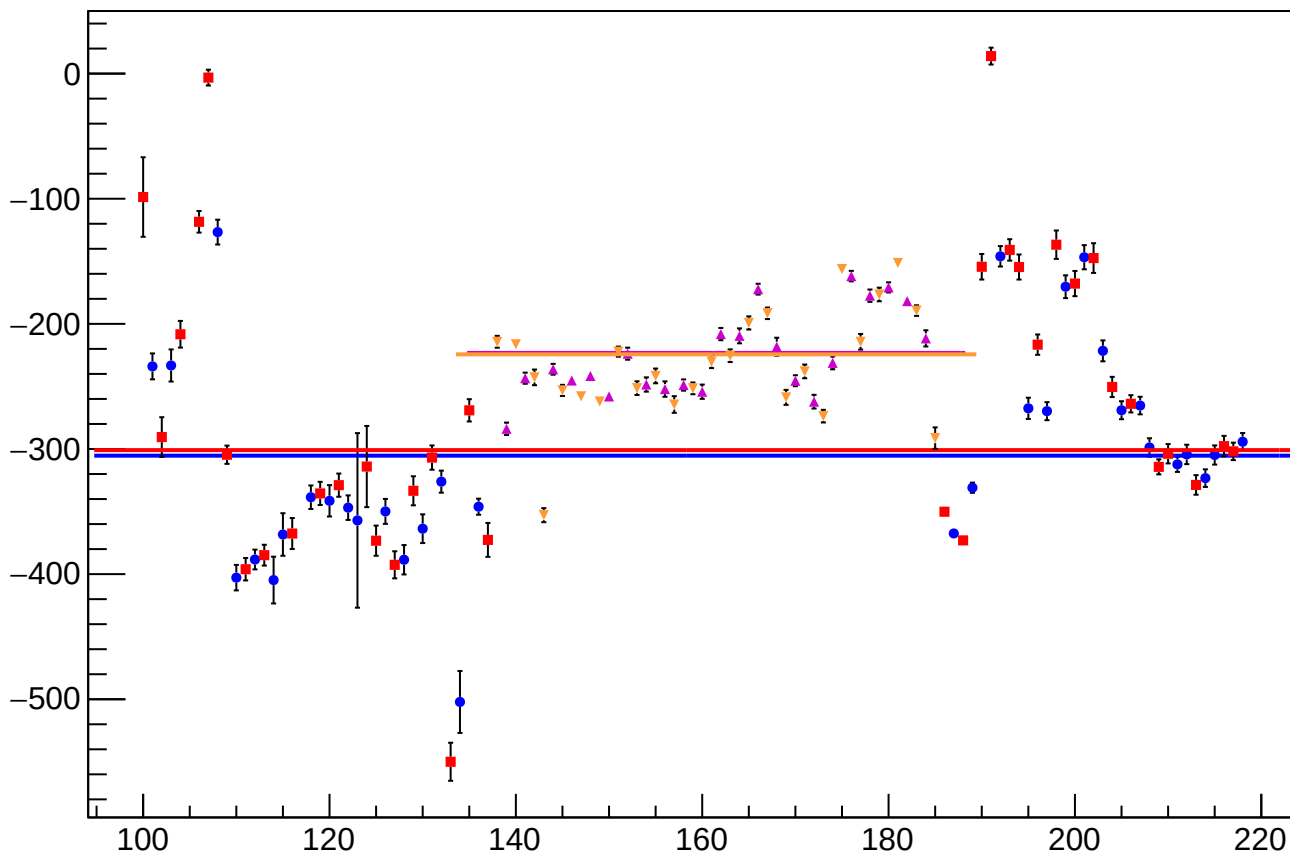
Right: 1.827 ± 0.799 $\chi^2/\text{NDF}: 2415.0/68$

In: 6.053 ± 0.631 $\chi^2/\text{NDF}: 1717.7/55$

Out: 4.116 ± 0.591 $\chi^2/\text{NDF}: 1890.8/60$

All: 5.021 ± 0.431 $\chi^2/\text{NDF}: 3613.5/116$

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -305.327 ± 1.389 χ^2/NDF : 2259.6/32

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -300.909 ± 1.154 χ^2/NDF : 8677.8/35

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

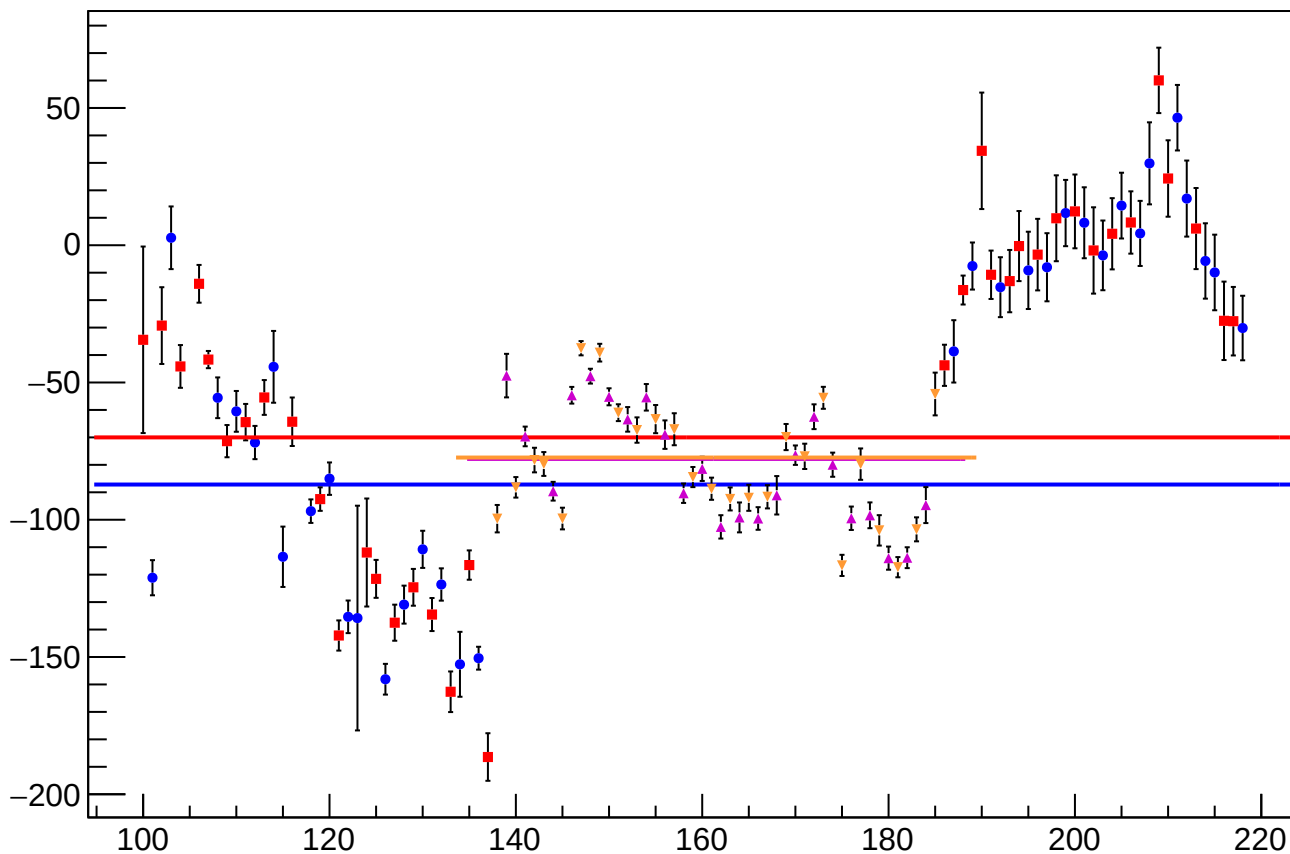
Right: -302.713 ± 0.888 χ^2/NDF : 10943.3/68

In: -250.101 ± 0.795 χ^2/NDF : 5878.2/55

Out: -255.507 ± 0.736 χ^2/NDF : 13389.2/60

All: -253.010 ± 0.540 χ^2/NDF : 19292.3/116

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -87.173 ± 1.415 $\chi^2/\text{NDF}: 1577.7/32$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -70.001 ± 1.260 $\chi^2/\text{NDF}: 1776.0/35$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

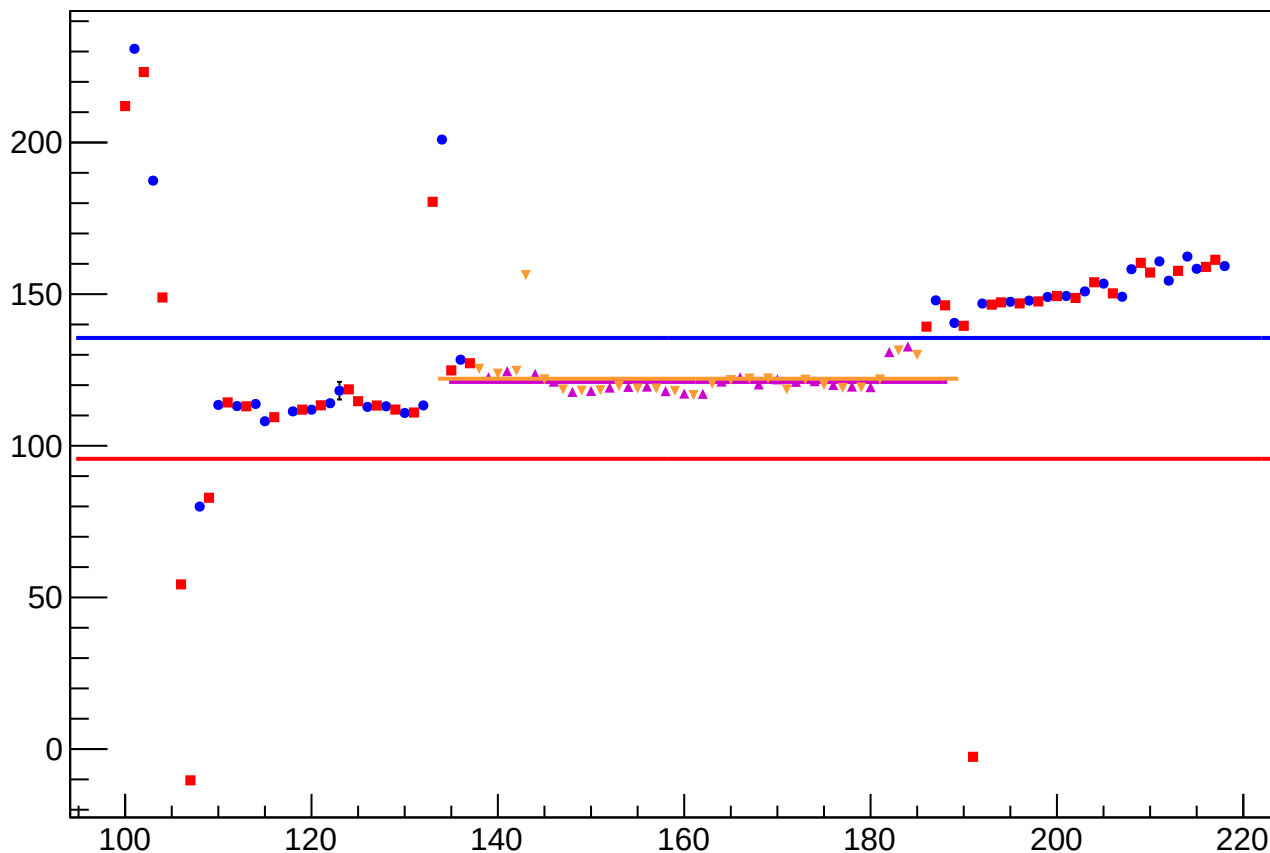
Right: -77.594 ± 0.941 $\chi^2/\text{NDF}: 3435.8/68$

In: -80.307 ± 0.728 $\chi^2/\text{NDF}: 2232.5/55$

Out: -75.134 ± 0.691 $\chi^2/\text{NDF}: 2646.0/60$

All: -77.587 ± 0.501 $\chi^2/\text{NDF}: 4905.0/116$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 135.563 $\pm$ 0.072 χ^2 /NDF: 213056.0/32

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 95.705 $\pm$ 0.061 χ^2 /NDF: 1175412.5/35

Left In: 121.055 $\pm$ 0.040 χ^2 /NDF:7931.6/22

Left: 121.591 $\pm$ 0.028 χ^2 /NDF: 38773.7/47

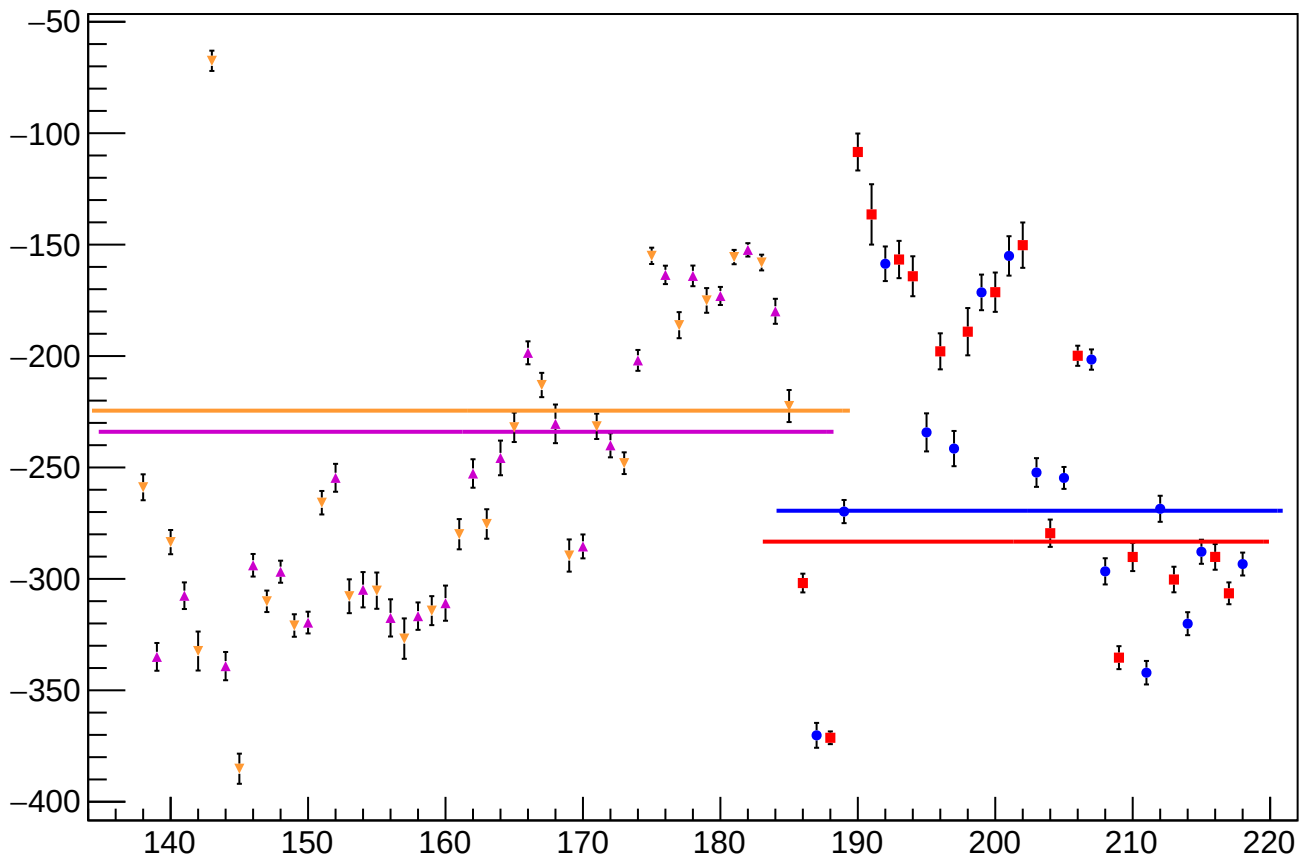
Right: 112.460 $\pm$ 0.047 χ^2 /NDF: 1567457.6/68

In: 124.462 $\pm$ 0.035 χ^2 /NDF:252292.8/55

Out: 114.355 $\pm$ 0.033 χ^2 /NDF:1337923.3/60

All: 119.164 $\pm$ 0.024 χ^2 /NDF: 1634537.9/116

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -269.417 ± 1.472 $\chi^2/\text{NDF}: 1455.7/15$

Left Out: -224.501 ± 1.079 $\chi^2/\text{NDF}: 4870.6/24$

Right Out: -283.282 ± 1.396 $\chi^2/\text{NDF}: 2939.1/16$

Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$

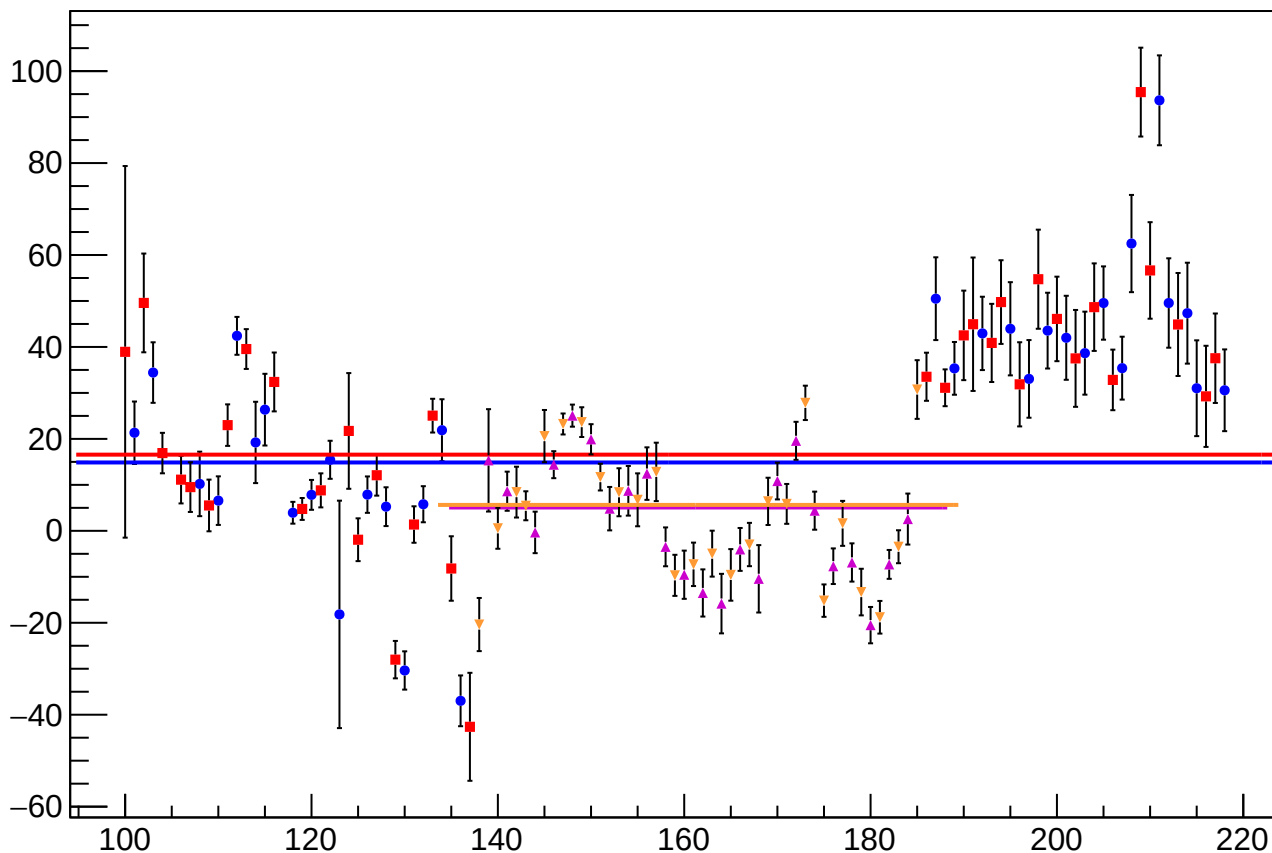
Right: -276.719 ± 1.013 $\chi^2/\text{NDF}: 4441.5/32$

In: -246.806 ± 0.886 $\chi^2/\text{NDF}: 5363.6/38$

Out: -246.492 ± 0.854 $\chi^2/\text{NDF}: 8919.9/41$

All: -246.643 ± 0.615 $\chi^2/\text{NDF}: 14283.6/80$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.871 ± 0.982 $\chi^2/\text{NDF}: 530.2/32$

Left Out: 5.638 ± 0.828 $\chi^2/\text{NDF}: 313.6/24$

Right Out: 16.572 ± 0.940 $\chi^2/\text{NDF}: 473.3/35$

Left In: 5.077 ± 0.869 $\chi^2/\text{NDF}: 239.7/22$

Left: 5.371 ± 0.599 $\chi^2/\text{NDF}: 553.6/47$

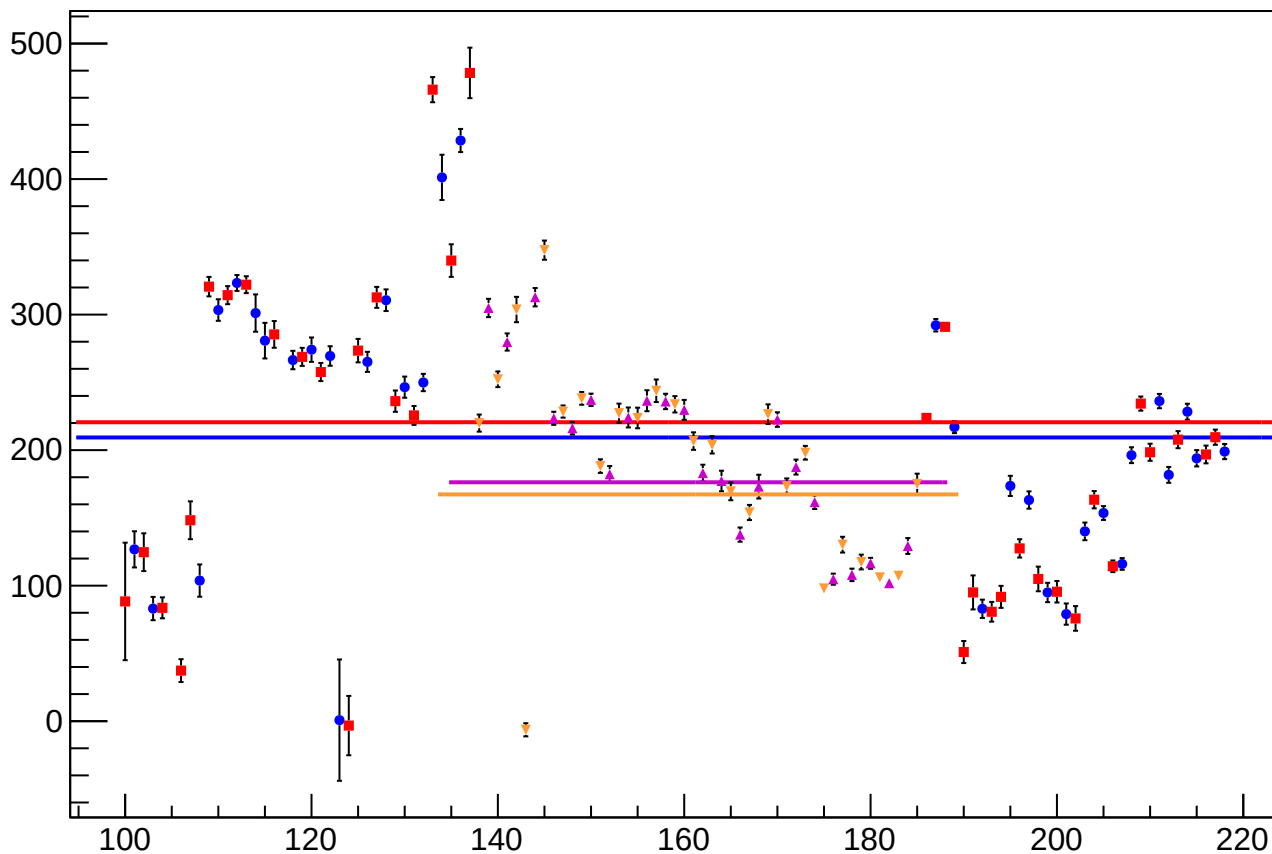
Right: 15.759 ± 0.679 $\chi^2/\text{NDF}: 1005.0/68$

In: 9.379 ± 0.651 $\chi^2/\text{NDF}: 825.6/55$

Out: 10.413 ± 0.621 $\chi^2/\text{NDF}: 863.1/60$

All: 9.920 ± 0.449 $\chi^2/\text{NDF}: 1690.0/116$

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 209.345 $\pm$ 1.174 χ^2 /NDF: 4264.4/32

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 220.580 $\pm$ 1.072 χ^2 /NDF: 6613.7/35

Left In: 176.272 $\pm$ 1.106 χ^2 /NDF:3169.5/22

Left: 171.704 $\pm$ 0.774 χ^2 /NDF: 7657.4/47

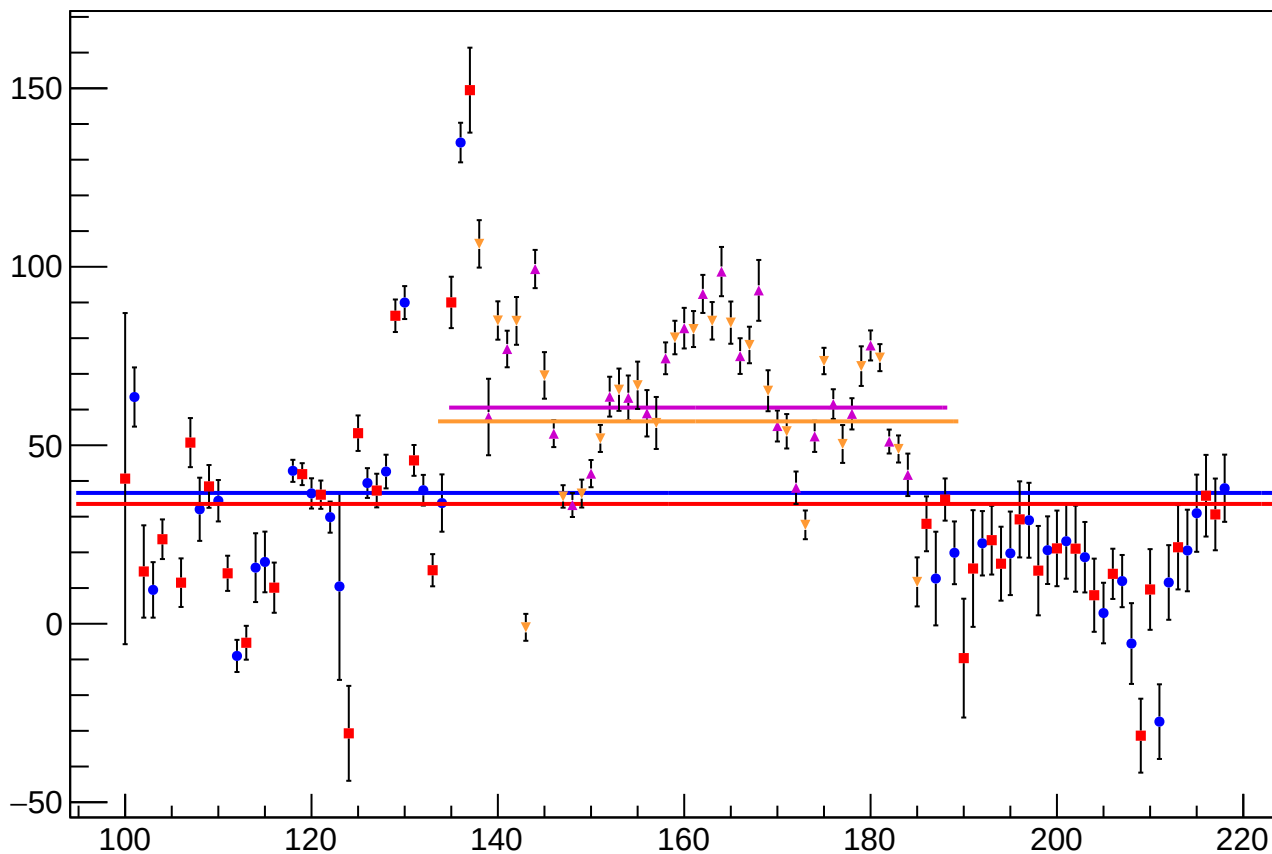
Right: 215.476 $\pm$ 0.792 χ^2 /NDF: 10928.0/68

In: 191.812 $\pm$ 0.805 χ^2 /NDF:7854.3/55

Out: 194.223 $\pm$ 0.762 χ^2 /NDF:12290.5/60

All: 193.084 $\pm$ 0.553 χ^2 /NDF: 20149.5/116

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.648 ± 1.134 χ^2/NDF : 698.9/32

Left Out: 56.695 ± 0.952 χ^2/NDF : 690.4/24

Right Out: 33.566 ± 1.098 χ^2/NDF : 555.6/35

Left In: 60.555 ± 0.990 χ^2/NDF : 335.6/22

Left: 58.548 ± 0.686 χ^2/NDF : 1034.0/47

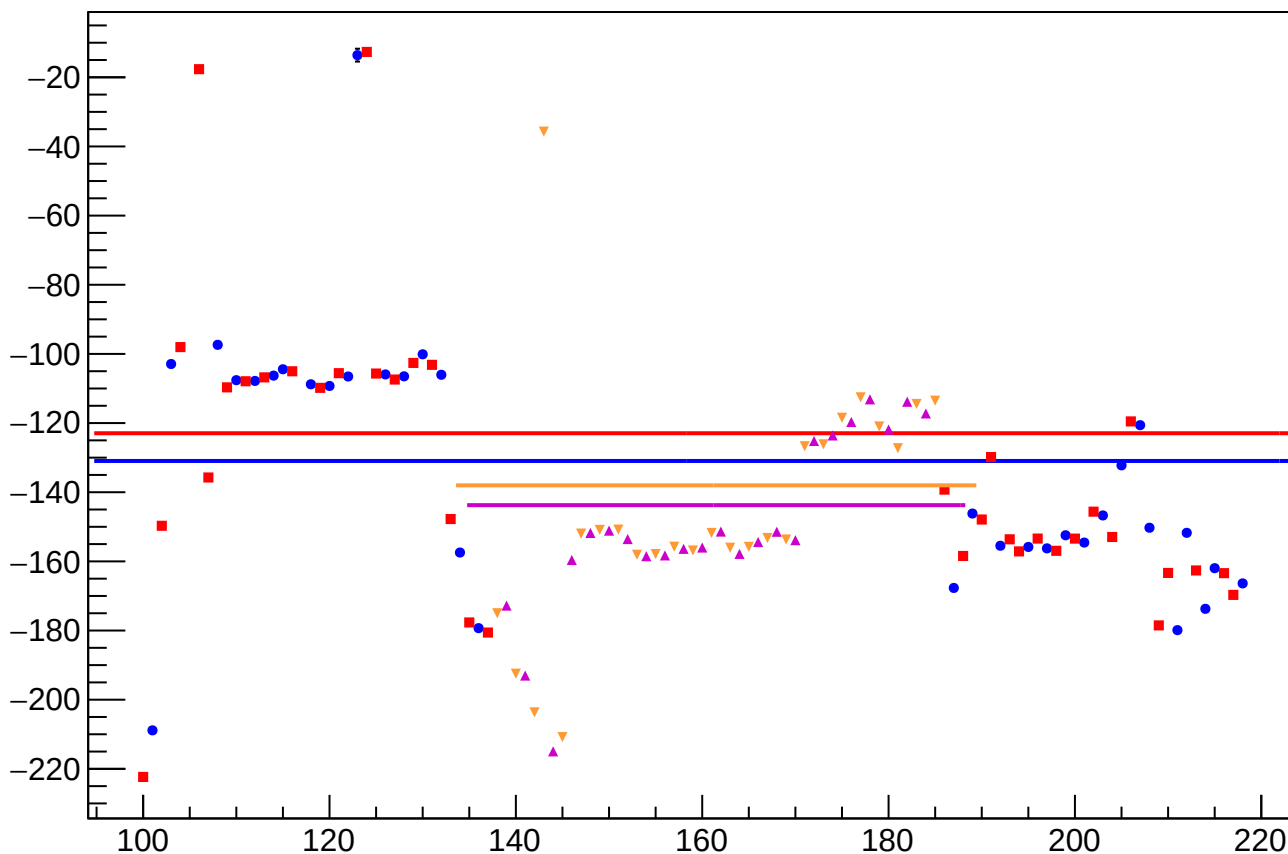
Right: 35.058 ± 0.789 χ^2/NDF : 1258.4/68

In: 50.213 ± 0.746 χ^2/NDF : 1286.7/55

Out: 46.774 ± 0.719 χ^2/NDF : 1499.4/60

All: 48.431 ± 0.518 χ^2/NDF : 2797.1/116

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -130.959 ± 0.060 $\chi^2/\text{NDF}: 233872.5/32$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -122.939 ± 0.057 $\chi^2/\text{NDF}: 490752.3/35$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

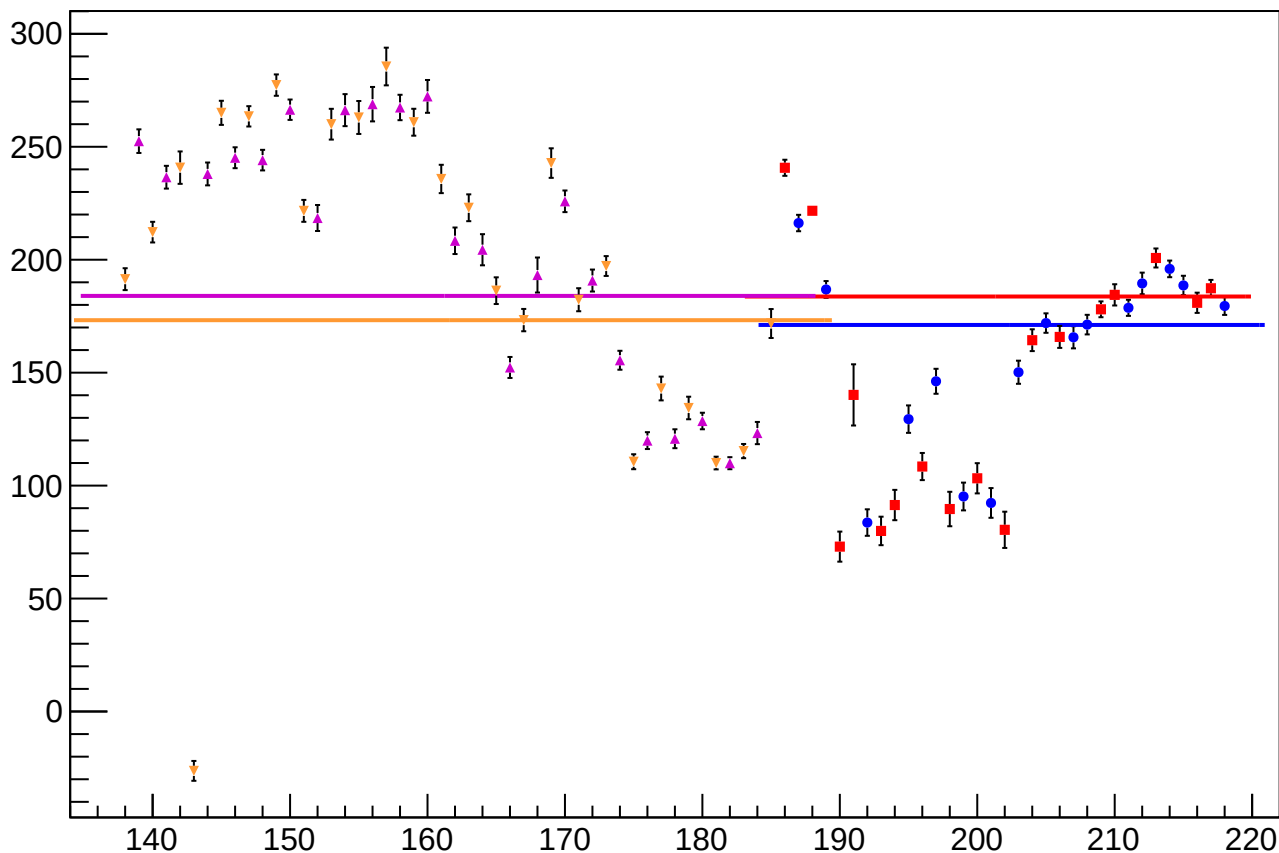
Right: -126.730 ± 0.042 $\chi^2/\text{NDF}: 733915.7/68$

In: -139.034 ± 0.037 $\chi^2/\text{NDF}: 520541.2/55$

Out: -132.228 ± 0.035 $\chi^2/\text{NDF}: 1099293.0/60$

All: -135.516 ± 0.025 $\chi^2/\text{NDF}: 1637663.4/111$

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 171.123+/-1.126 χ^2/NDF : 862.0/15

Left Out: 173.229+/-0.966 χ^2/NDF : 5846.0/24

Right Out: 183.713+/-1.044 χ^2/NDF : 2087.8/16

Left In: 183.984+/-0.991 χ^2/NDF : 3613.7/22

Left: 178.467+/-0.692 χ^2/NDF : 9520.1/47

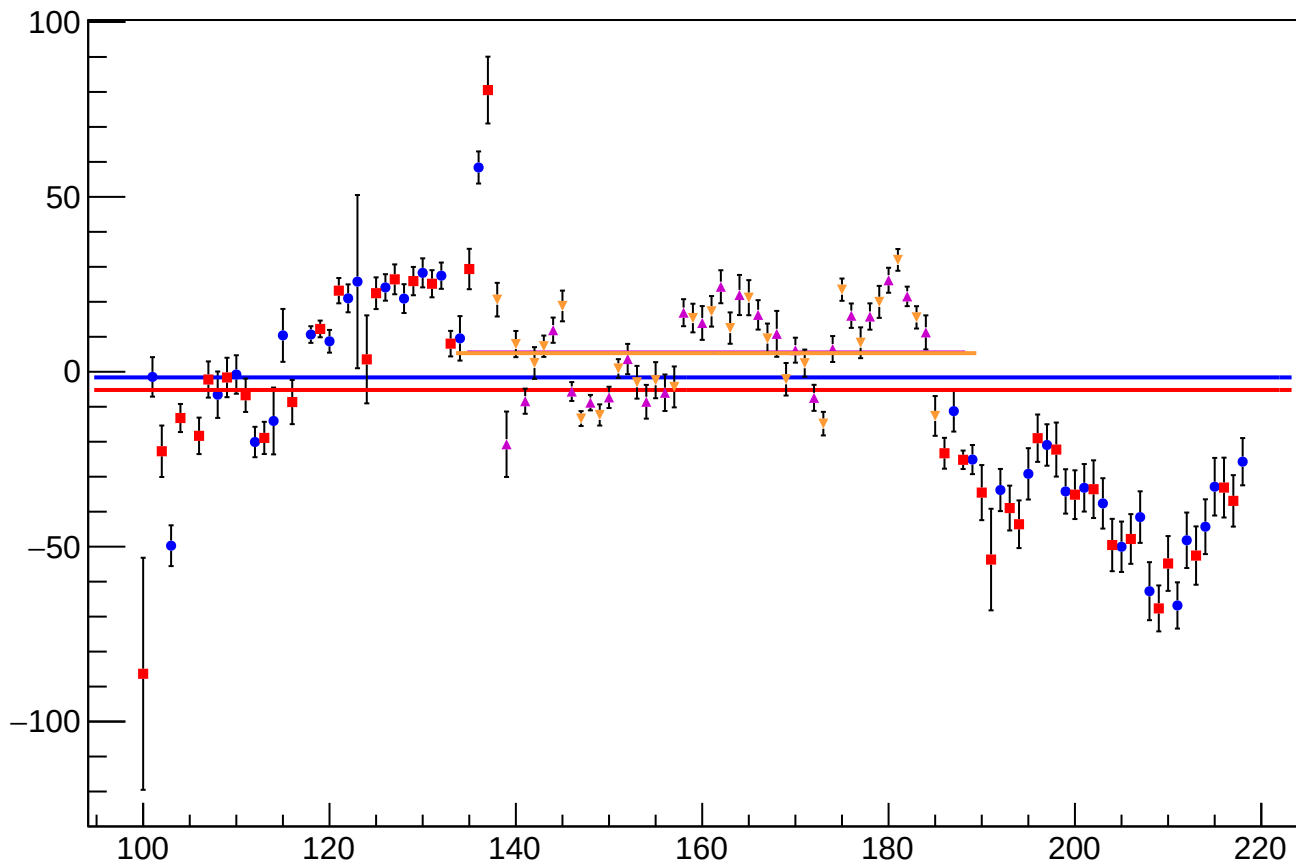
Right: 177.891+/-0.766 χ^2/NDF : 3017.0/32

In: 178.371+/-0.744 χ^2/NDF : 4549.2/38

Out: 178.060+/-0.709 χ^2/NDF : 7988.1/41

All: 178.208+/-0.513 χ^2/NDF : 12537.4/80

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.609 ± 0.900 χ^2/NDF : 1000.7/32

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -5.201 ± 0.855 χ^2/NDF : 950.5/35

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

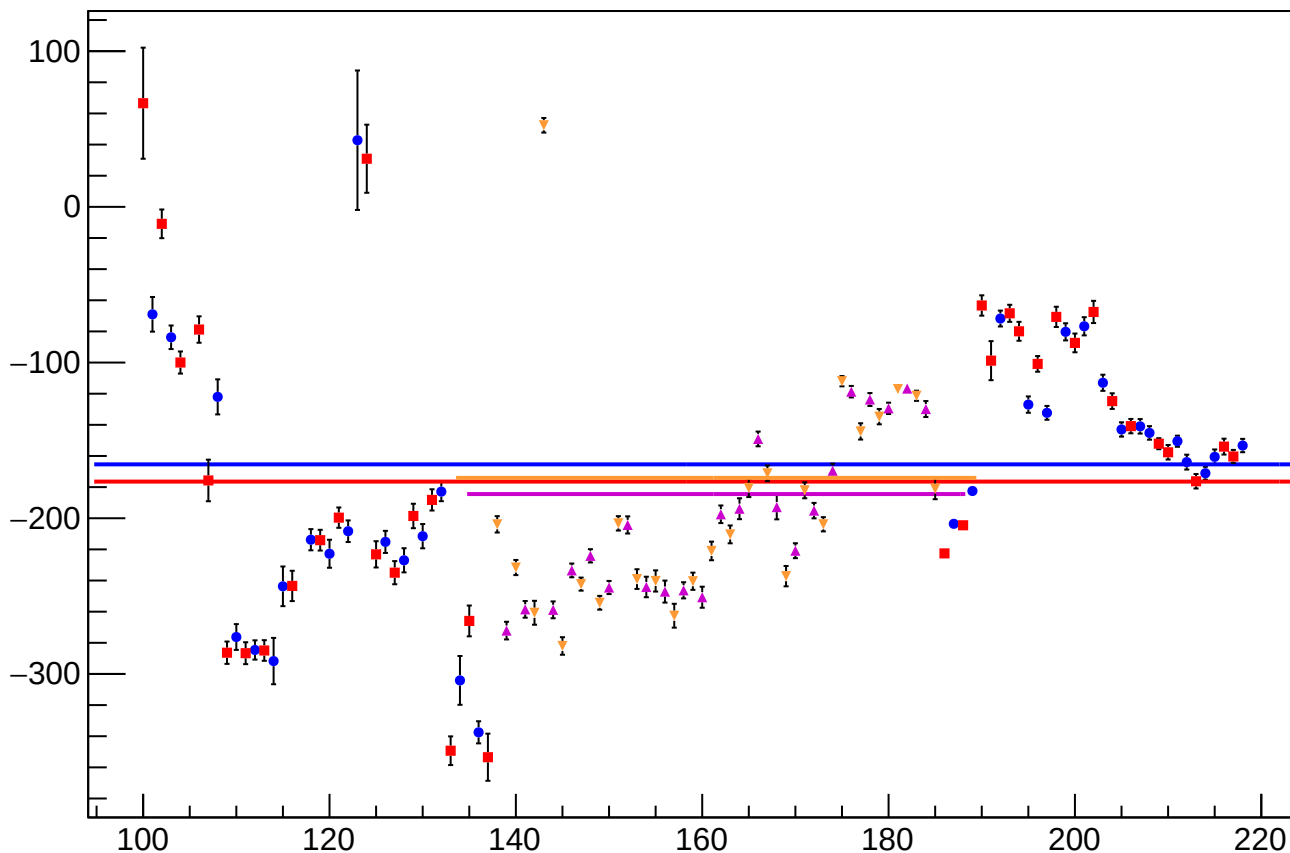
Right: -3.497 ± 0.620 χ^2/NDF : 1959.6/68

In: 2.461 ± 0.590 χ^2/NDF : 1292.9/55

Out: 0.765 ± 0.563 χ^2/NDF : 1381.9/60

All: 1.573 ± 0.407 χ^2/NDF : 2679.1/116

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -165.387 ± 0.950 χ^2/NDF : 3151.3/32

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -176.458 ± 0.848 χ^2/NDF : 5019.8/35

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

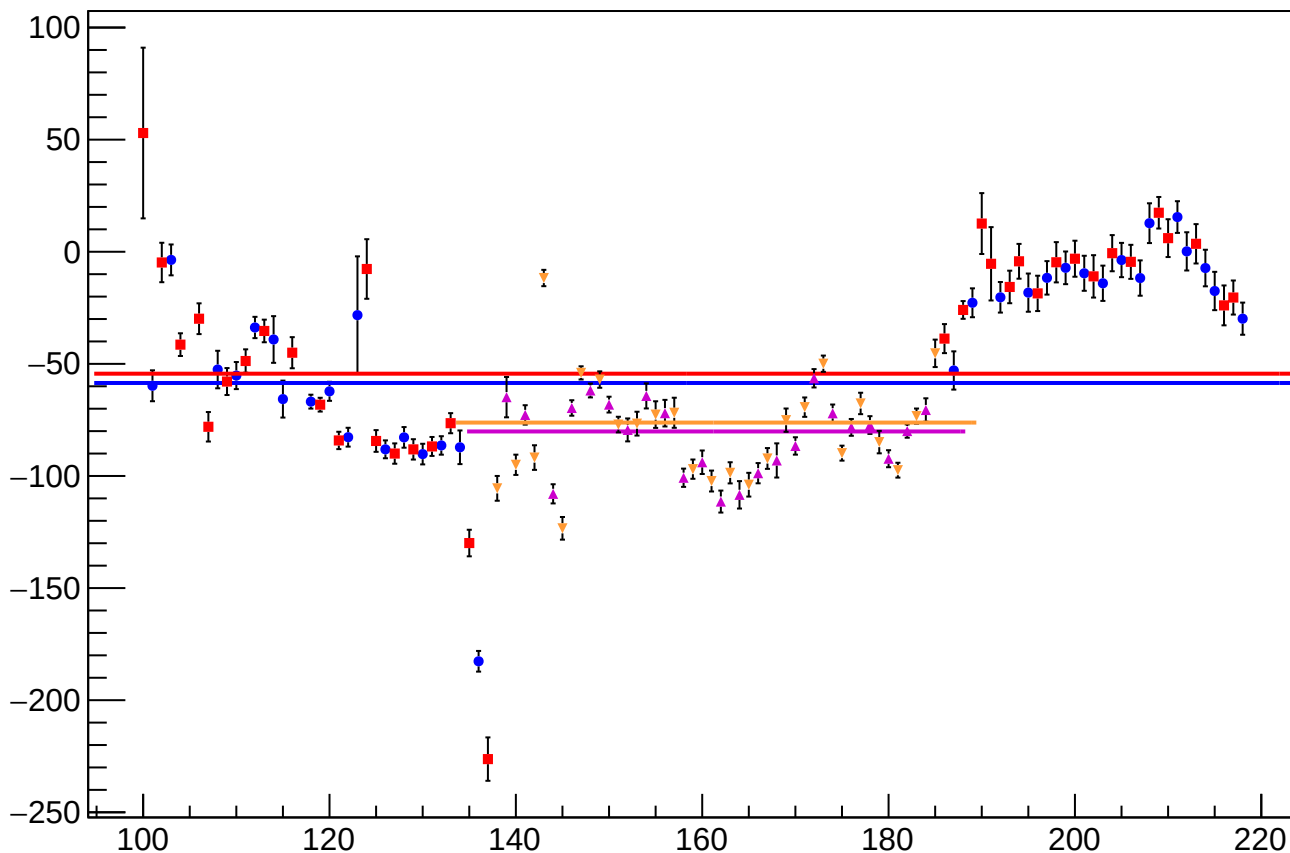
Right: -171.548 ± 0.633 χ^2/NDF : 8246.7/68

In: -174.522 ± 0.686 χ^2/NDF : 6396.0/55

Out: -175.420 ± 0.639 χ^2/NDF : 10466.5/60

All: -175.003 ± 0.467 χ^2/NDF : 16863.4/116

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -58.523 ± 1.042 $\chi^2/\text{NDF}: 1685.1/32$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -54.380 ± 1.009 $\chi^2/\text{NDF}: 1490.6/35$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

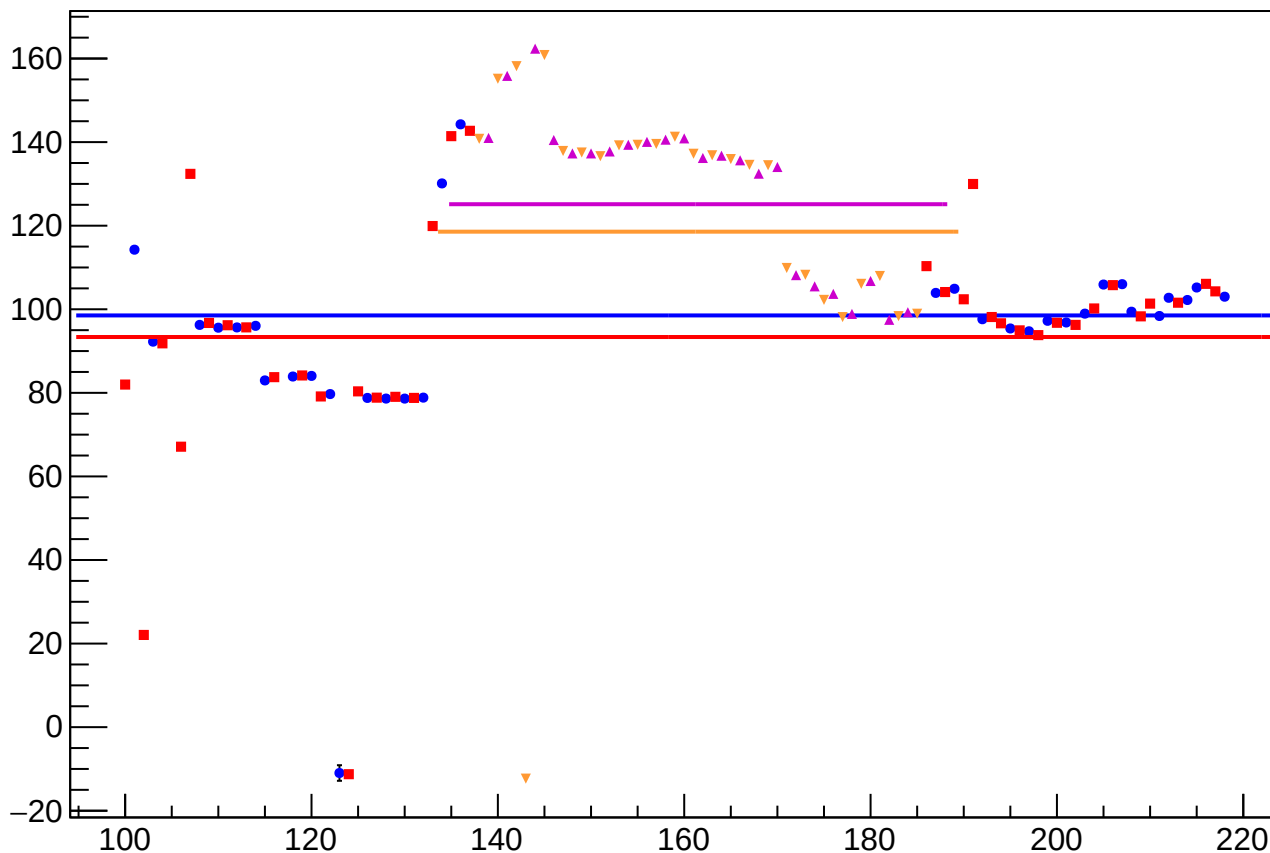
Right: -56.385 ± 0.725 $\chi^2/\text{NDF}: 3183.8/68$

In: -71.036 ± 0.676 $\chi^2/\text{NDF}: 2217.7/55$

Out: -67.041 ± 0.653 $\chi^2/\text{NDF}: 2562.8/60$

All: -68.970 ± 0.470 $\chi^2/\text{NDF}: 4798.5/116$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.525 $\pm$ 0.052 χ^2 /NDF: 96655.5/32

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 93.361 $\pm$ 0.050 χ^2 /NDF: 245552.8/35

Left In: 125.139 $\pm$ 0.041 χ^2 /NDF: 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2 /NDF: 962526.8/47

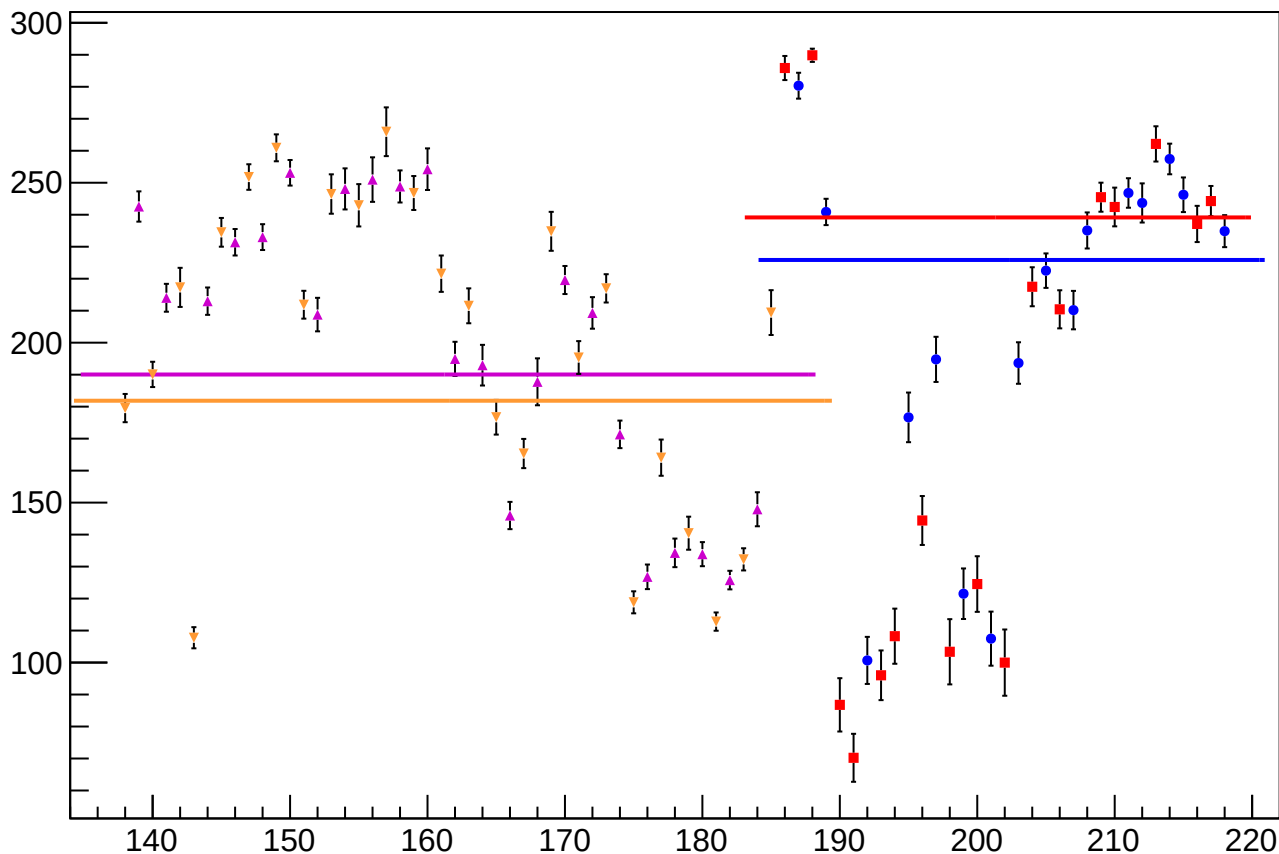
Right: 95.802 $\pm$ 0.036 χ^2 /NDF: 347318.9/68

In: 114.961 $\pm$ 0.032 χ^2 /NDF: 476526.5/55

Out: 108.506 $\pm$ 0.031 χ^2 /NDF: 1128952.6/60

All: 111.626 $\pm$ 0.023 χ^2 /NDF: 1625927.9/116

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 225.857 $\pm$ 1.395 χ^2 /NDF: 1038.6/15

Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF:3303.4/24

Right Out: 239.153 $\pm$ 1.235 χ^2 /NDF: 2908.6/16

Left In: 190.048 $\pm$ 0.953 χ^2 /NDF:2438.4/22

Left: 185.775 $\pm$ 0.659 χ^2 /NDF: 5780.3/47

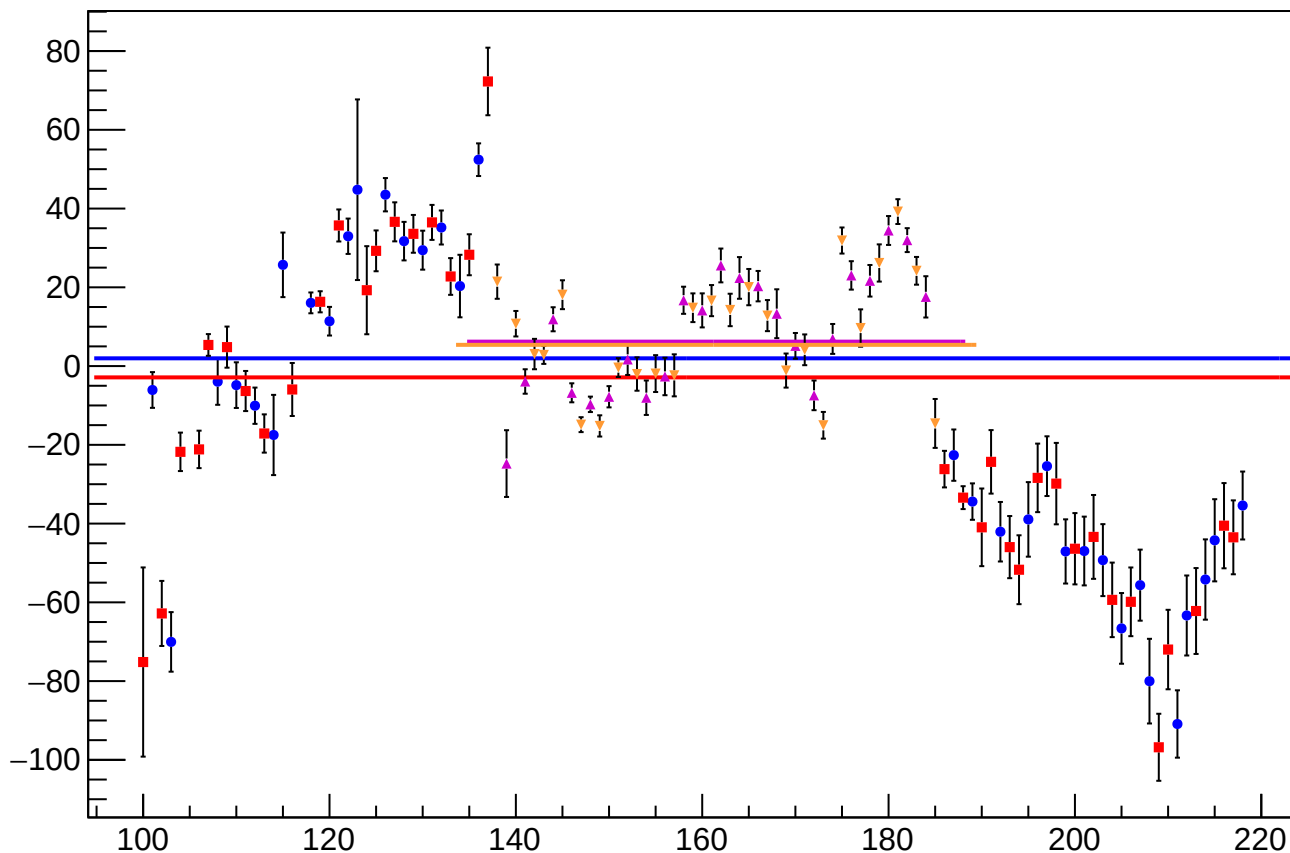
Right: 233.310 $\pm$ 0.925 χ^2 /NDF: 3998.1/32

In: 201.443 $\pm$ 0.787 χ^2 /NDF:3926.3/38

Out: 202.113 $\pm$ 0.734 χ^2 /NDF:7603.8/41

All: 201.801 $\pm$ 0.537 χ^2 /NDF: 11530.5/80

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.969 ± 1.011 $\chi^2/\text{NDF}: 1204.2/32$

Left Out: 5.394 ± 0.688 $\chi^2/\text{NDF}: 526.5/24$

Right Out: -2.873 ± 0.917 $\chi^2/\text{NDF}: 1217.0/35$

Left In: 6.206 ± 0.732 $\chi^2/\text{NDF}: 407.5/22$

Left: 5.775 ± 0.501 $\chi^2/\text{NDF}: 934.7/47$

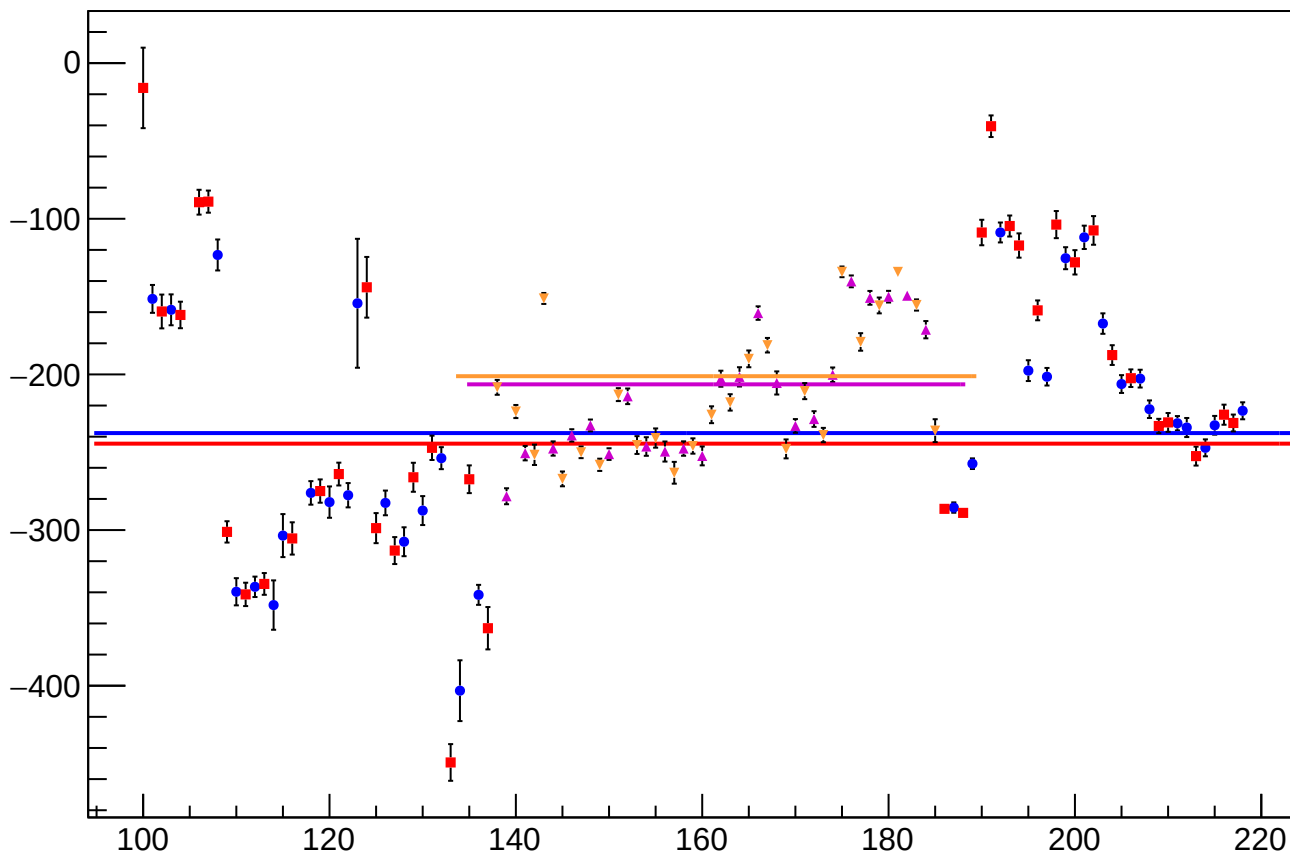
Right: -0.688 ± 0.679 $\chi^2/\text{NDF}: 2433.8/68$

In: 4.750 ± 0.593 $\chi^2/\text{NDF}: 1623.3/55$

Out: 2.416 ± 0.550 $\chi^2/\text{NDF}: 1795.5/60$

All: 3.497 ± 0.403 $\chi^2/\text{NDF}: 3427.1/116$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -237.688+/-1.129 χ^2/NDF : 2714.2/32

Left Out: -201.144+/-0.918 χ^2/NDF : 2488.8/24

Right Out: -244.481+/-0.965 χ^2/NDF : 5851.8/35

Left In: -206.379+/-0.950 χ^2/NDF : 2111.6/22

Left: -203.672+/-0.660 χ^2/NDF : 4616.1/47

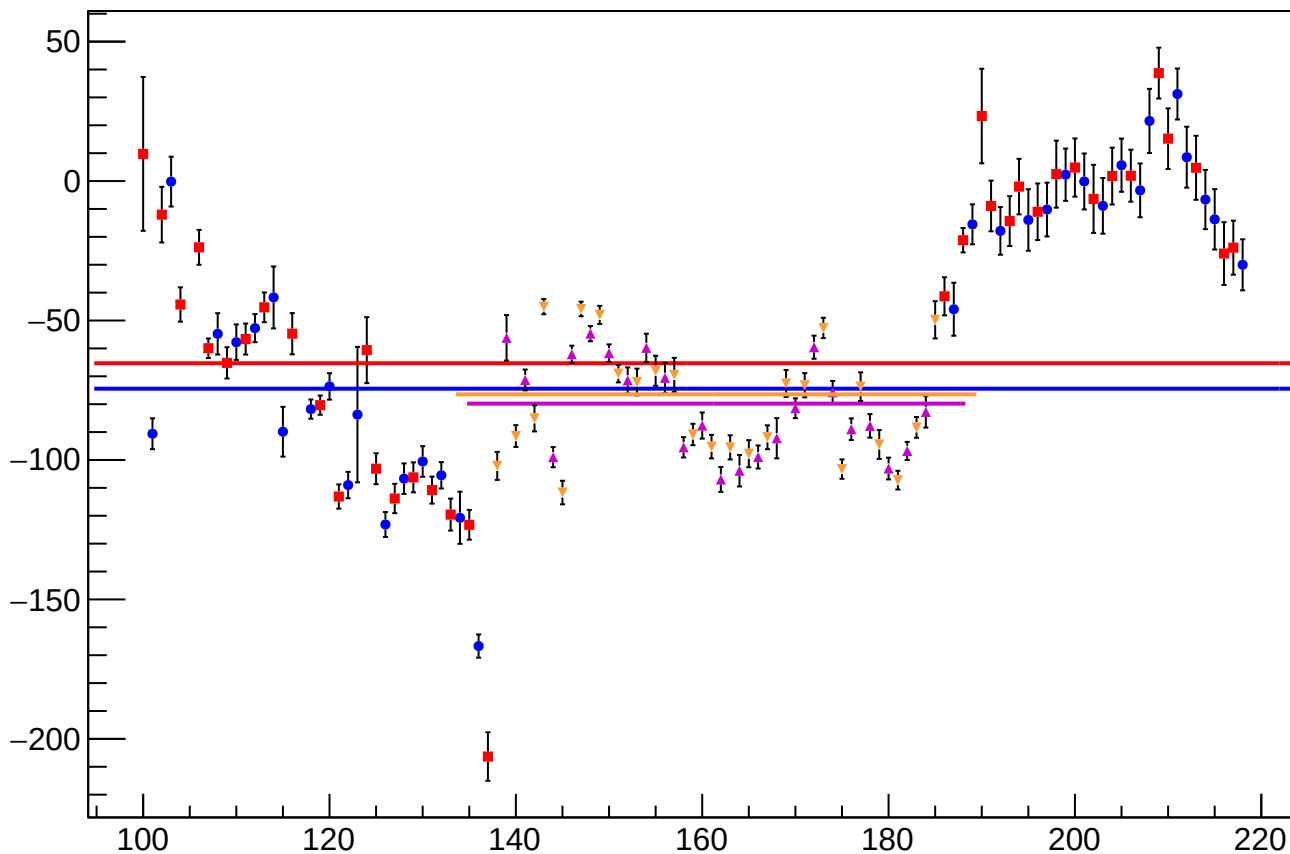
Right: -241.612+/-0.734 χ^2/NDF : 8587.0/68

In: -219.352+/-0.727 χ^2/NDF : 5276.2/55

Out: -221.724+/-0.665 χ^2/NDF : 9399.3/60

All: -220.643+/-0.491 χ^2/NDF : 14681.4/116

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -74.442 ± 1.172 $\chi^2/\text{NDF}: 1756.7/32$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -65.318 ± 1.089 $\chi^2/\text{NDF}: 1731.6/35$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

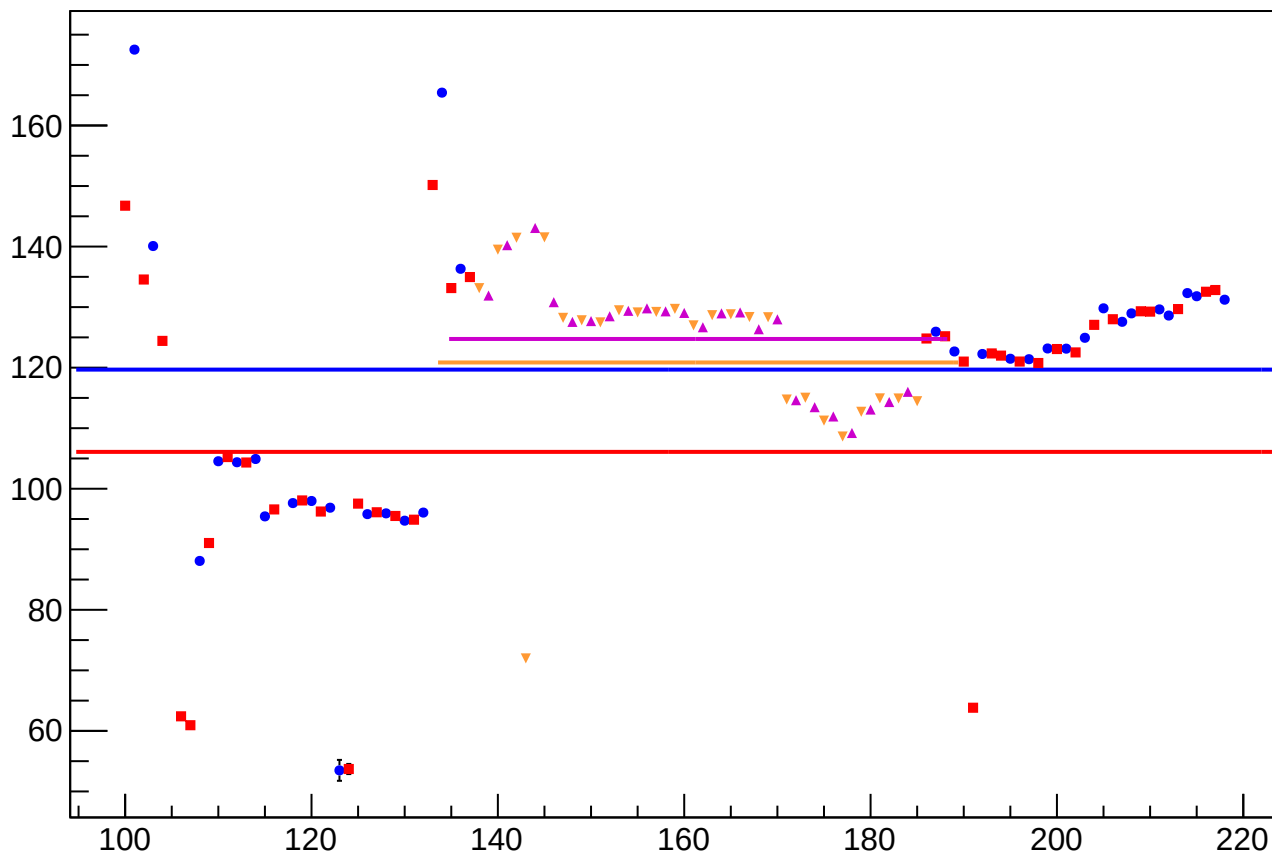
Right: -69.543 ± 0.798 $\chi^2/\text{NDF}: 3520.8/68$

In: -77.978 ± 0.683 $\chi^2/\text{NDF}: 2182.7/55$

Out: -72.575 ± 0.643 $\chi^2/\text{NDF}: 2581.2/60$

All: -75.115 ± 0.468 $\chi^2/\text{NDF}: 4797.1/116$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 119.677 $\pm$ 0.060 χ^2 /NDF: 112392.9/32

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 106.088 $\pm$ 0.054 χ^2 /NDF: 254005.0/35

Left In: 124.738 $\pm$ 0.039 χ^2 /NDF:51298.3/22

Left: 122.737 $\pm$ 0.027 χ^2 /NDF: 239101.1/47

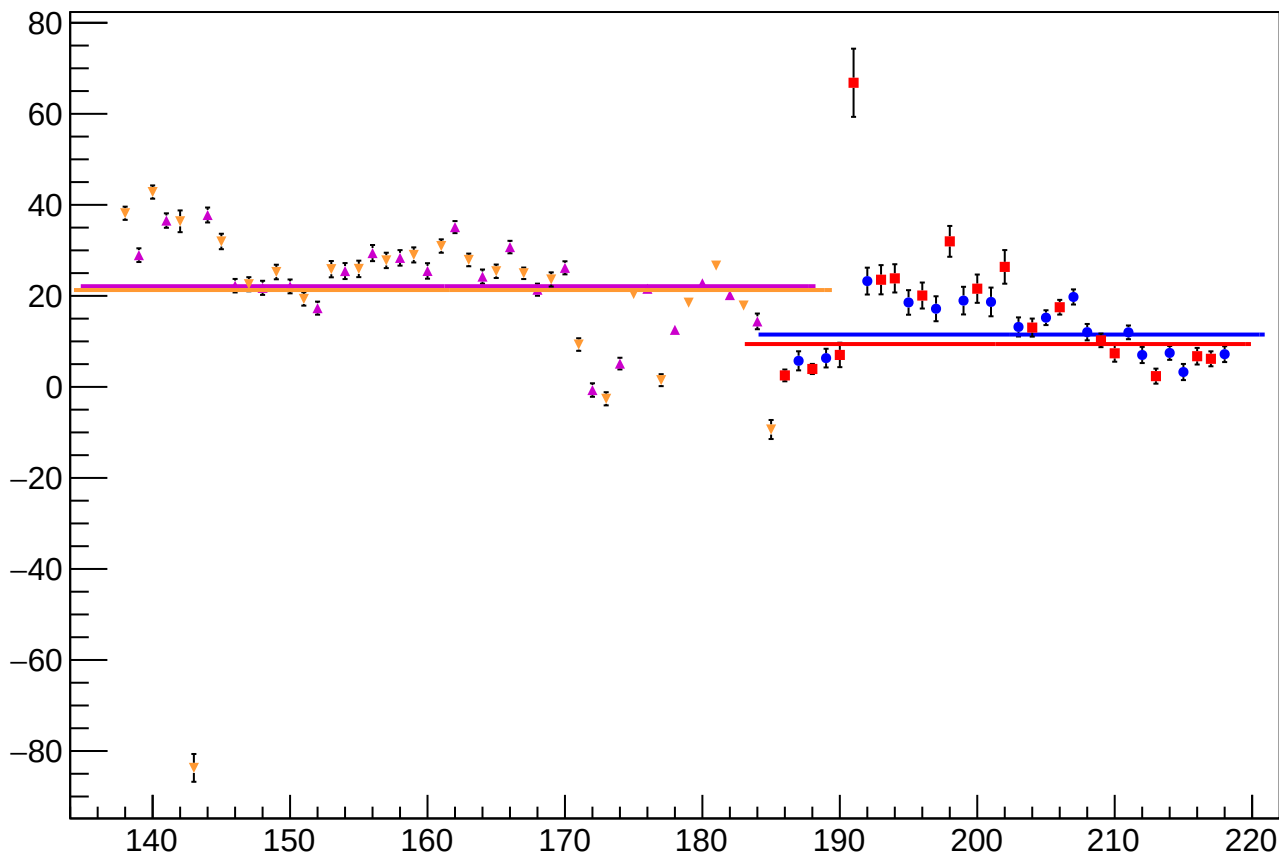
Right: 112.084 $\pm$ 0.040 χ^2 /NDF: 394737.1/68

In: 123.233 $\pm$ 0.033 χ^2 /NDF:168635.6/55

Out: 115.909 $\pm$ 0.031 χ^2 /NDF:487202.9/60

All: 119.357 $\pm$ 0.023 χ^2 /NDF: 682062.6/116

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.501 $\pm$ 0.490 χ^2 /NDF: 123.8/15

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 9.414 $\pm$ 0.468 χ^2 /NDF: 301.8/16

Left In: 22.127 $\pm$ 0.285 χ^2 /NDF:900.2/22

Left: 21.700 $\pm$ 0.201 χ^2 /NDF: 3505.2/47

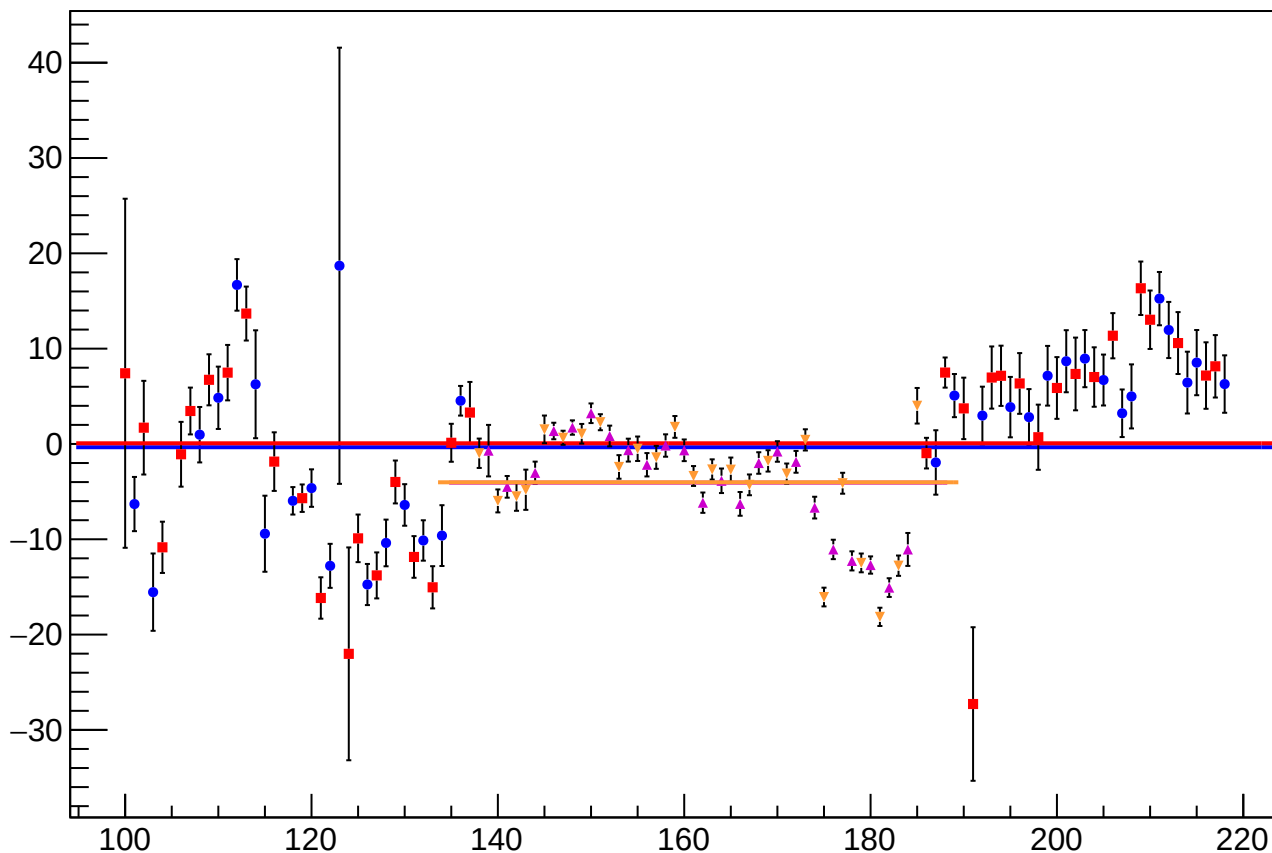
Right: 10.411 $\pm$ 0.338 χ^2 /NDF: 435.0/32

In: 19.432 $\pm$ 0.247 χ^2 /NDF:1375.4/38

Out: 18.117 $\pm$ 0.242 χ^2 /NDF:3373.1/41

All: 18.762 $\pm$ 0.173 χ^2 /NDF: 4762.9/80

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.344 ± 0.460 $\chi^2/\text{NDF}: 334.9/32$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: 0.070 ± 0.441 $\chi^2/\text{NDF}: 415.7/35$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

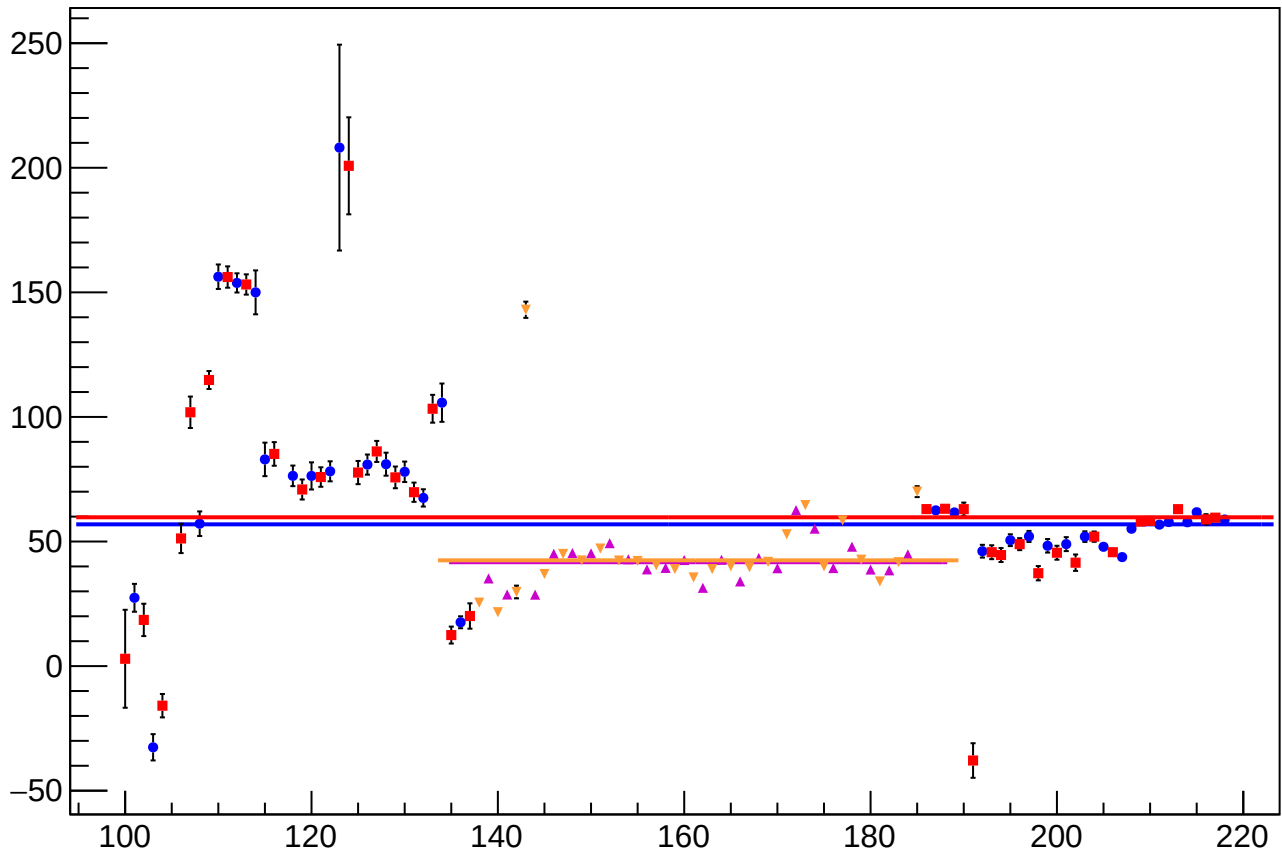
Right: -0.128 ± 0.318 $\chi^2/\text{NDF}: 751.0/68$

In: -3.327 ± 0.204 $\chi^2/\text{NDF}: 964.4/55$

Out: -3.187 ± 0.199 $\chi^2/\text{NDF}: 1218.4/60$

All: -3.255 ± 0.143 $\chi^2/\text{NDF}: 2183.0/116$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.898 $\pm$ 0.439 χ^2 /NDF: 2143.4/32

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF:2016.0/24

Right Out: 59.726 $\pm$ 0.403 χ^2 /NDF: 2633.0/35

Left In: 41.695 $\pm$ 0.284 χ^2 /NDF:630.2/22

Left: 42.077 $\pm$ 0.200 χ^2 /NDF: 2649.8/47

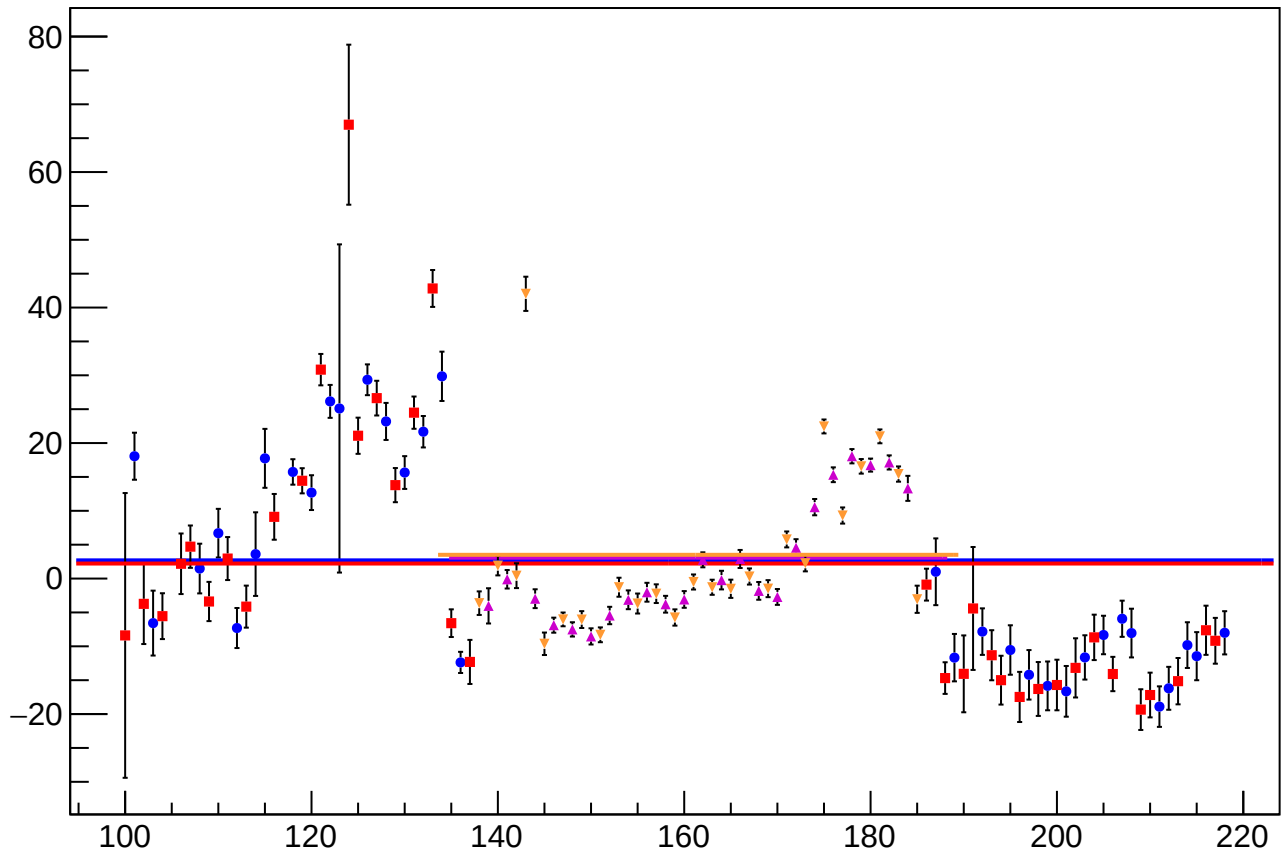
Right: 58.433 $\pm$ 0.297 χ^2 /NDF: 4799.0/68

In: 46.190 $\pm$ 0.238 χ^2 /NDF:3620.1/55

Out: 48.137 $\pm$ 0.231 χ^2 /NDF:5884.4/60

All: 47.195 $\pm$ 0.166 χ^2 /NDF: 9539.0/116

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.687 ± 0.522 χ^2/NDF : 939.9/32

Left Out: 3.505 ± 0.252 χ^2/NDF : 1691.3/24

Right Out: 2.218 ± 0.515 χ^2/NDF : 1122.8/35

Left In: 3.081 ± 0.257 χ^2/NDF : 1265.7/22

Left: 3.297 ± 0.180 χ^2/NDF : 2958.4/47

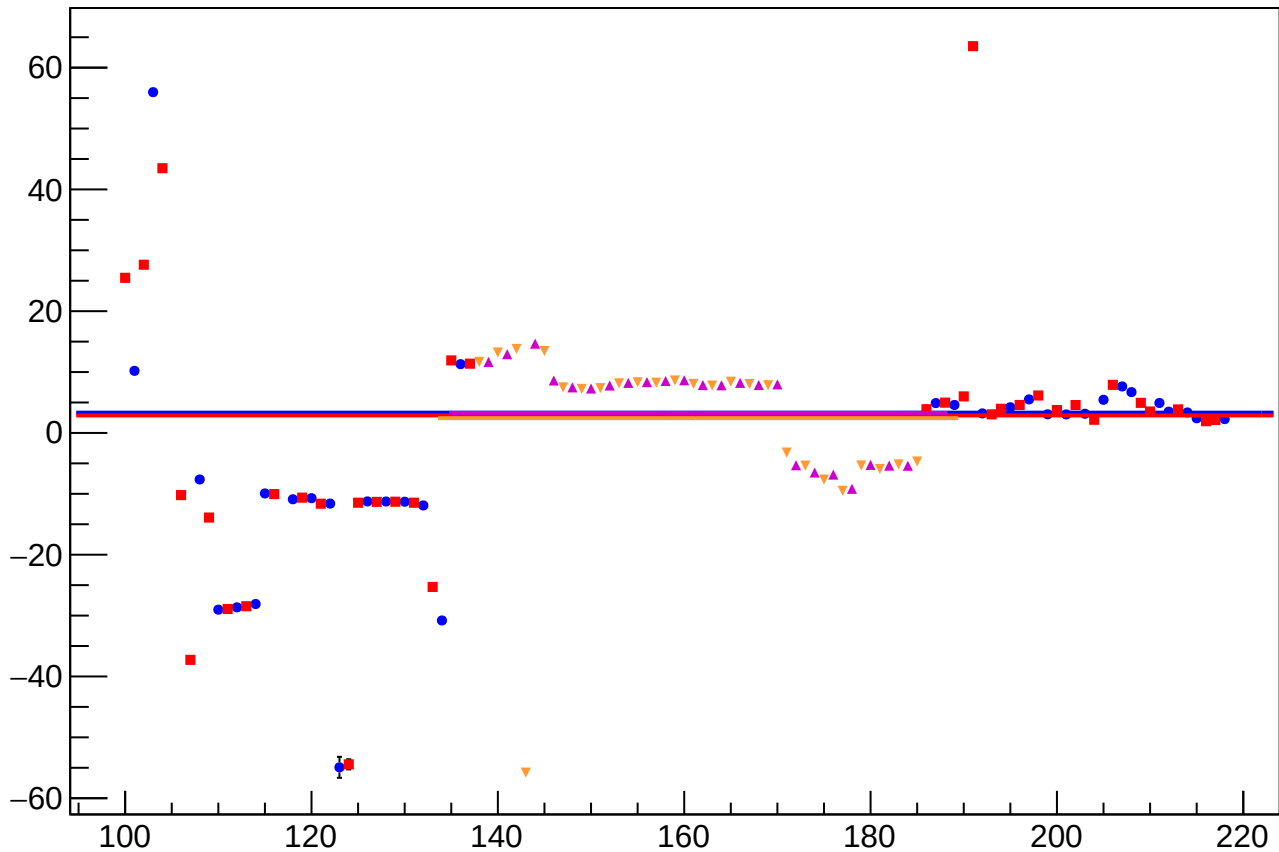
Right: 2.449 ± 0.367 χ^2/NDF : 2063.1/68

In: 3.005 ± 0.231 χ^2/NDF : 2206.1/55

Out: 3.256 ± 0.227 χ^2/NDF : 2819.1/60

All: 3.132 ± 0.162 χ^2/NDF : 5025.8/116

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.330 $\pm$ 0.025 χ^2 /NDF: 362458.9/32

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.873 $\pm$ 0.024 χ^2 /NDF: 434567.5/35

Left In: 3.293 $\pm$ 0.012 χ^2 /NDF: 404323.8/22

Left: 2.855 $\pm$ 0.008 χ^2 /NDF: 1023497.1/47

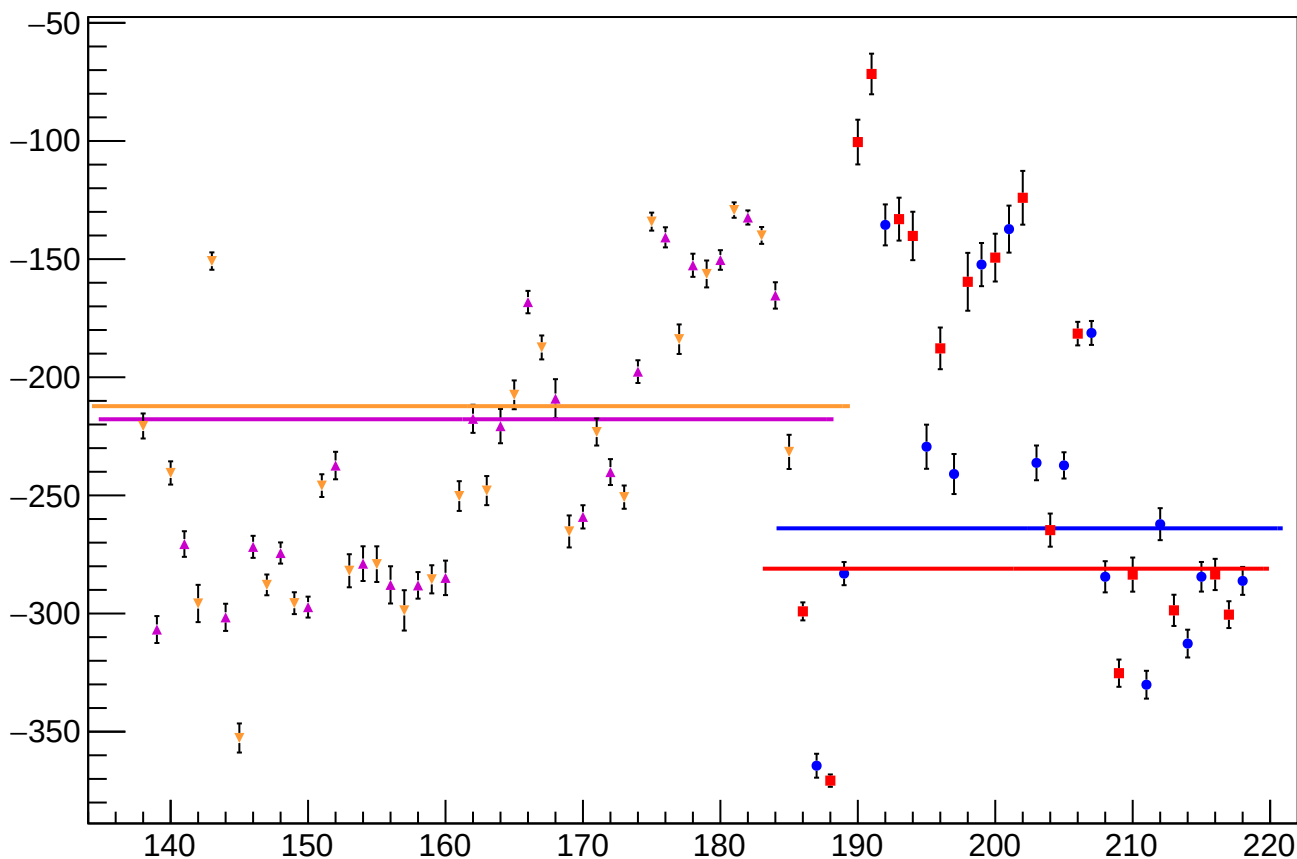
Right: 3.100 $\pm$ 0.017 χ^2 /NDF: 797200.0/68

In: 3.299 $\pm$ 0.011 χ^2 /NDF: 766784.6/55

Out: 2.507 $\pm$ 0.010 χ^2 /NDF: 1051225.8/60

All: 2.900 $\pm$ 0.007 χ^2 /NDF: 1820859.8/116

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -263.938 $\pm$ 1.606 χ^2 /NDF: 1493.8/15

Left Out: -212.231 $\pm$ 1.029 χ^2 /NDF:3875.4/24

Right Out: -281.017 $\pm$ 1.435 χ^2 /NDF: 3665.0/16

Left In: -217.779 $\pm$ 1.067 χ^2 /NDF:3448.9/22

Left: -214.906 $\pm$ 0.741 χ^2 /NDF: 7338.3/47

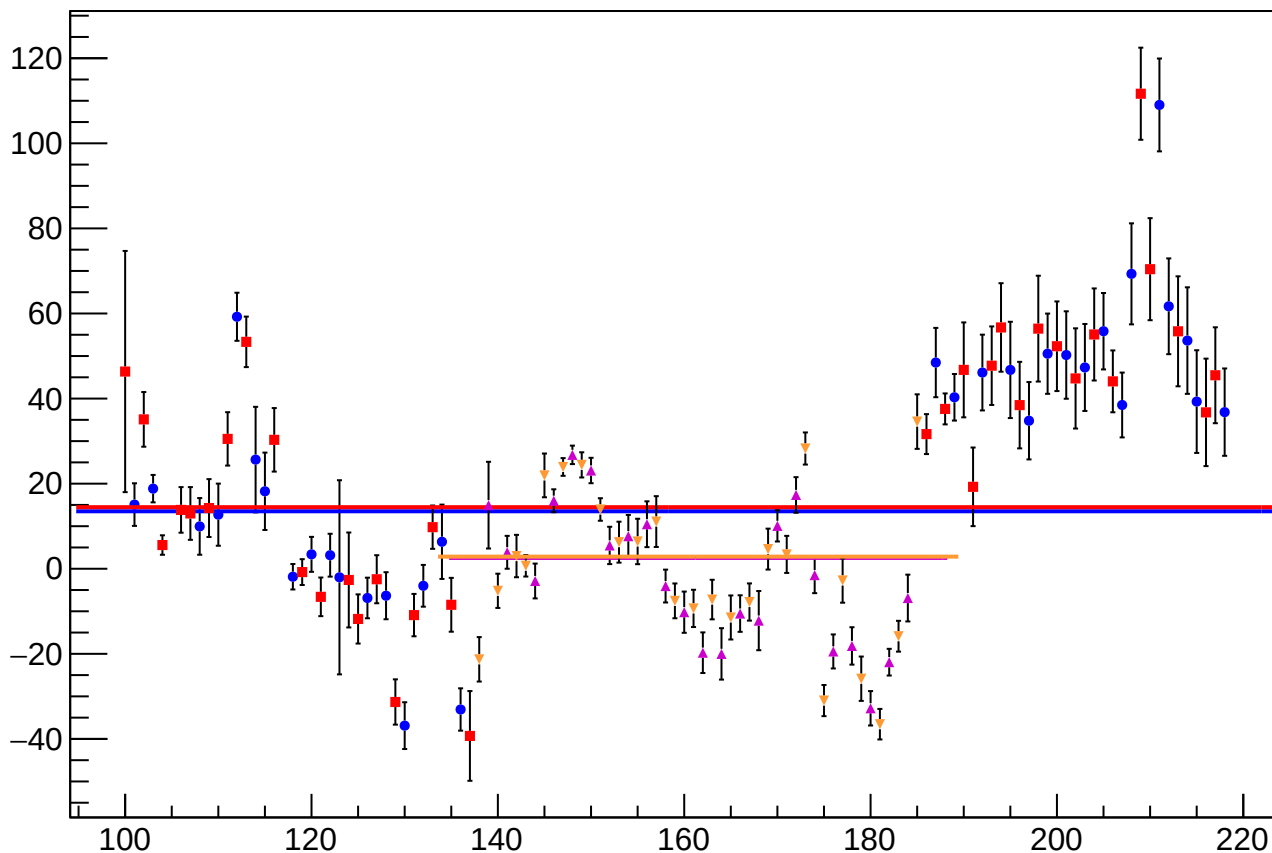
Right: -273.432 $\pm$ 1.070 χ^2 /NDF: 5221.6/32

In: -231.913 $\pm$ 0.889 χ^2 /NDF:5516.0/38

Out: -235.595 $\pm$ 0.837 χ^2 /NDF:9057.0/41

All: -233.865 $\pm$ 0.609 χ^2 /NDF: 14582.1/80

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.507+/-1.097 χ^2/NDF : 602.2/32

Left Out: 2.848+/-0.775 χ^2/NDF : 582.1/24

Right Out: 14.469+/-0.999 χ^2/NDF : 581.6/35

Left In: 2.540+/-0.822 χ^2/NDF : 473.6/22

Left: 2.703+/-0.564 χ^2/NDF : 1055.8/47

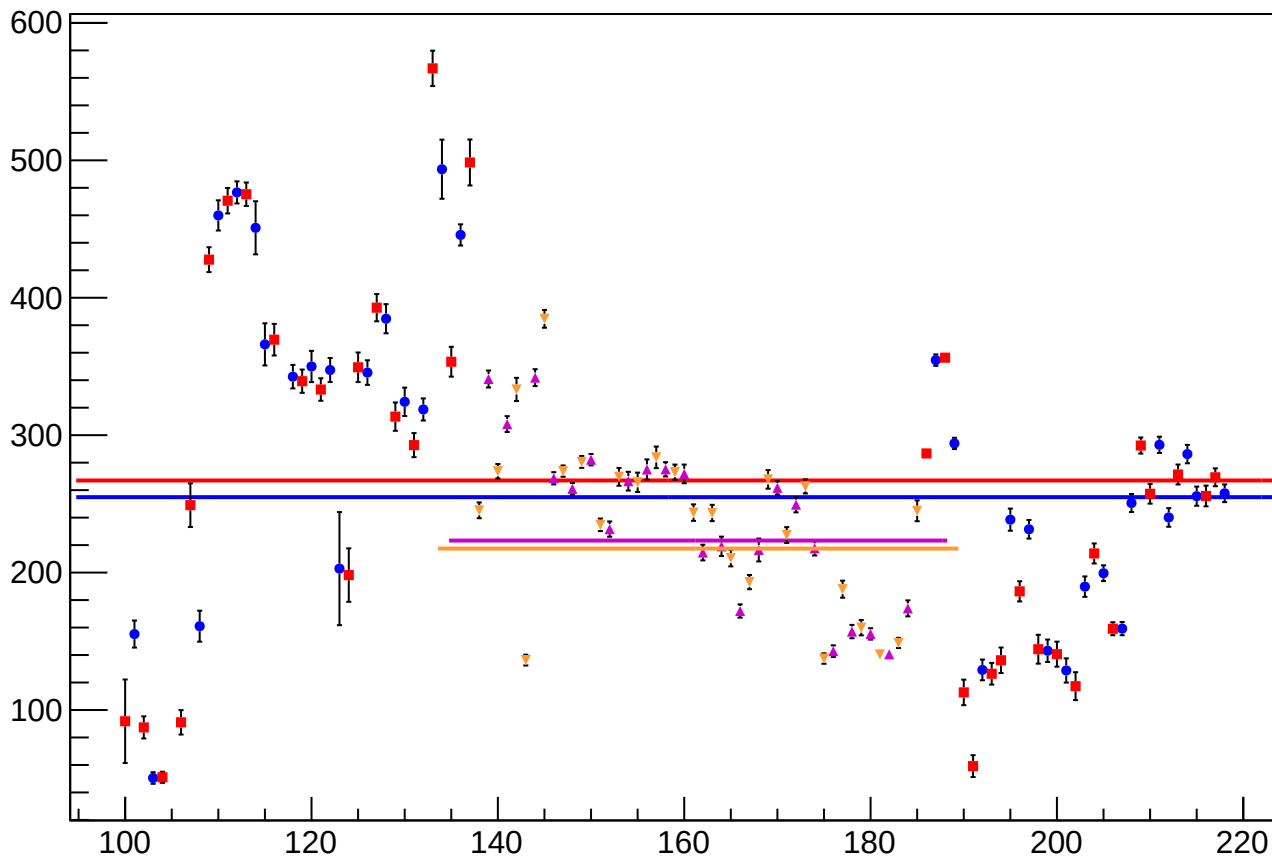
Right: 14.033+/-0.739 χ^2/NDF : 1184.2/68

In: 6.488+/-0.658 χ^2/NDF : 1139.8/55

Out: 7.212+/-0.612 χ^2/NDF : 1248.3/60

All: 6.876+/-0.448 χ^2/NDF : 2388.7/116

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 254.885+/-1.253 χ^2/NDF : 7141.0/32

Left Out: 217.484+/-1.032 χ^2/NDF : 3769.5/24

Right Out: 267.039+/-1.090 χ^2/NDF : 11054.5/35

Left In: 223.309+/-1.062 χ^2/NDF : 3378.0/22

Left: 220.314+/-0.740 χ^2/NDF : 7163.0/47

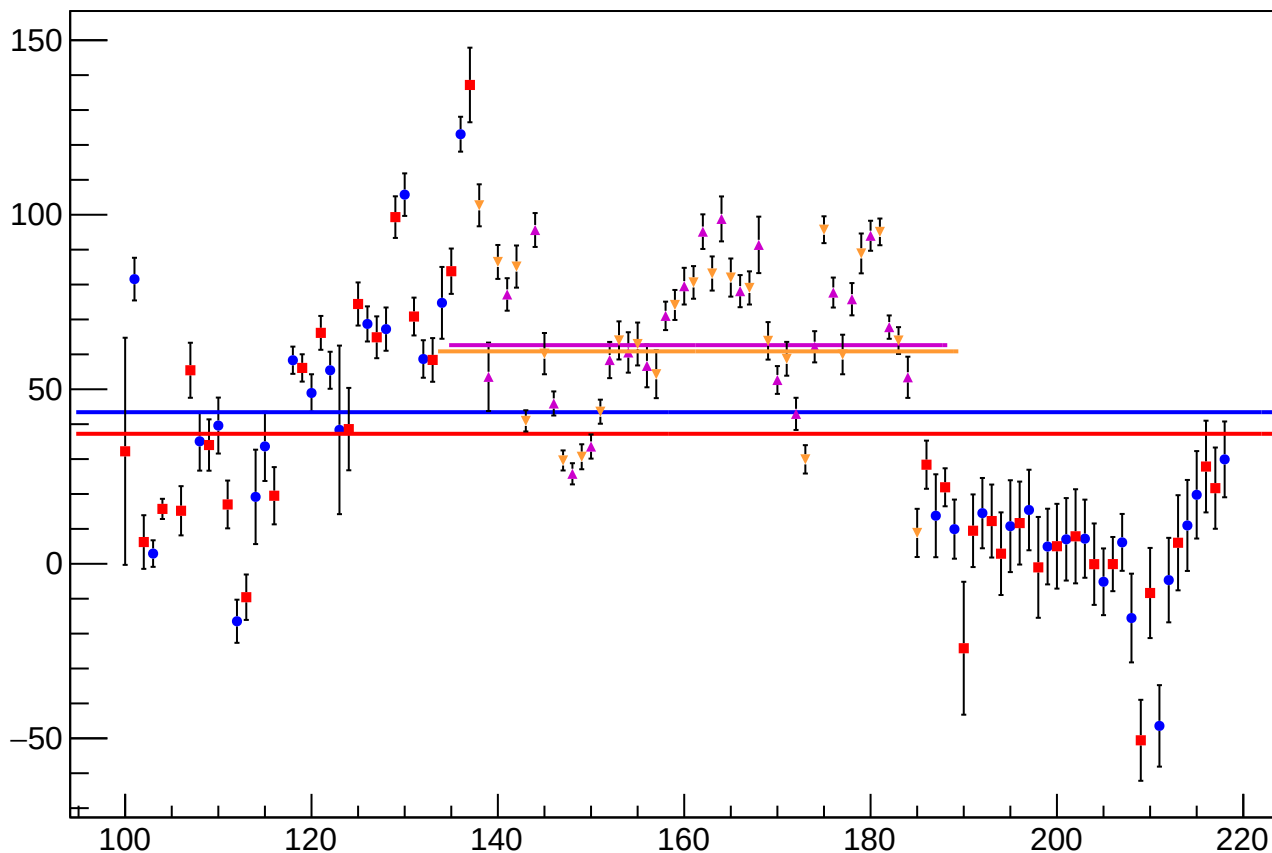
Right: 261.807+/-0.822 χ^2/NDF : 18249.1/68

In: 236.506+/-0.810 χ^2/NDF : 10888.5/55

Out: 240.927+/-0.749 χ^2/NDF : 15914.1/60

All: 238.889+/-0.550 χ^2/NDF : 26818.7/116

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.435 $\pm$ 1.273 χ^2 /NDF: 917.7/32

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 37.245 $\pm$ 1.191 χ^2 /NDF: 741.1/35

Left In: 62.640 $\pm$ 0.943 χ^2 /NDF: 515.4/22

Left: 61.707 $\pm$ 0.650 χ^2 /NDF: 1248.9/47

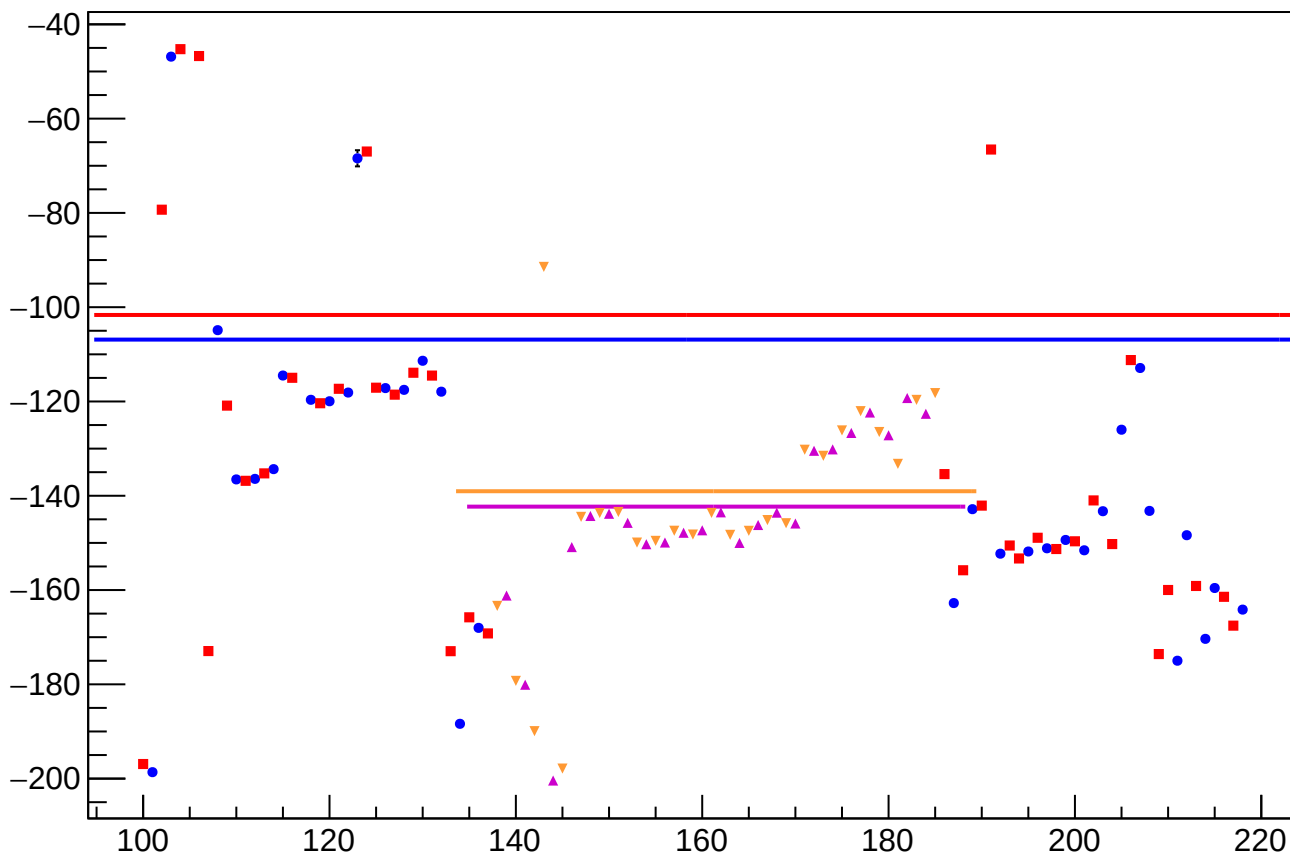
Right: 40.134 $\pm$ 0.870 χ^2 /NDF: 1671.4/68

In: 55.841 $\pm$ 0.758 χ^2 /NDF: 1580.0/55

Out: 52.323 $\pm$ 0.716 χ^2 /NDF: 1723.6/60

All: 53.984 $\pm$ 0.521 χ^2 /NDF: 3315.0/116

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -106.874+/-0.057 χ^2/NDF : 745818.6/32

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -101.649+/-0.054 χ^2/NDF : 780383.4/35

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

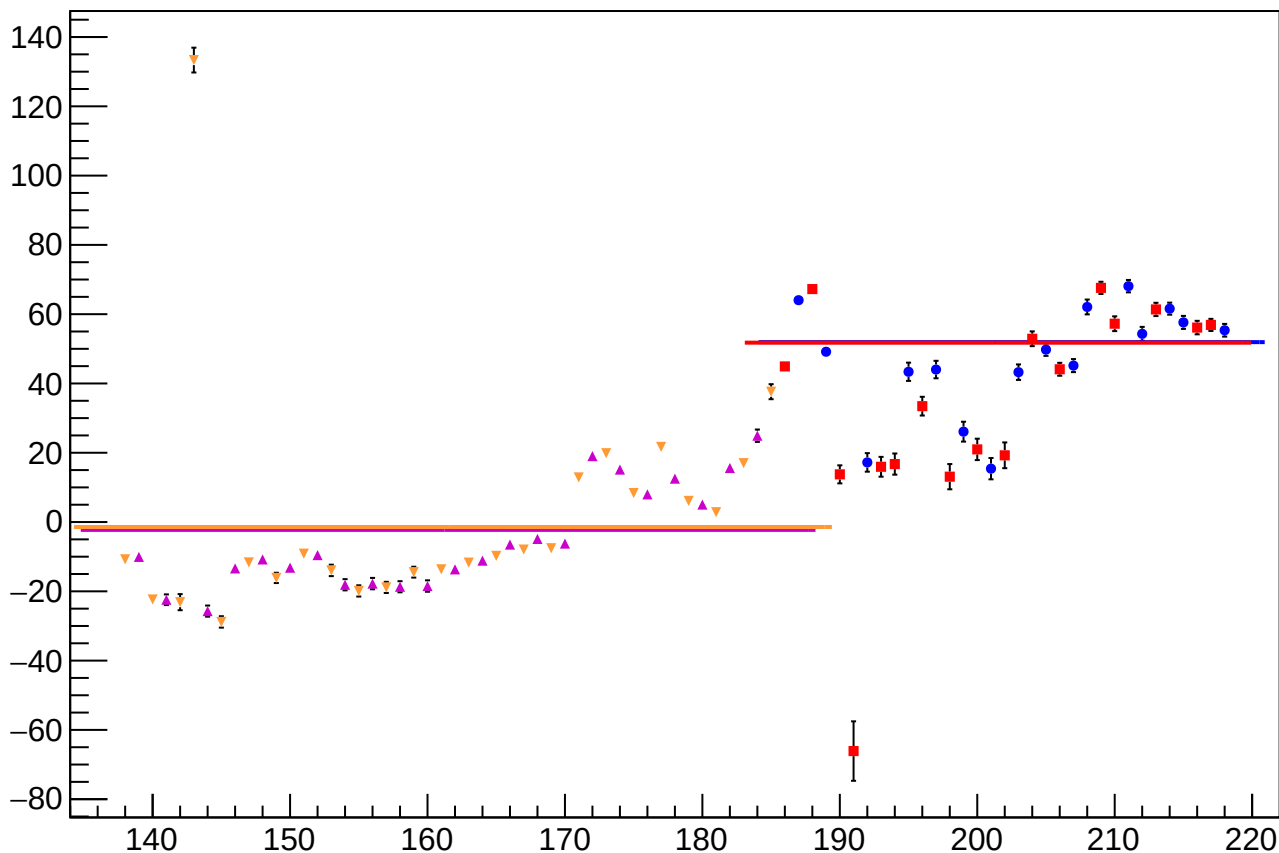
Right: -104.125+/-0.039 χ^2/NDF : 1530615.2/68

In: -129.061+/-0.035 χ^2/NDF : 1130701.0/55

Out: -124.632+/-0.034 χ^2/NDF : 1331649.2/60

All: -126.764+/-0.024 χ^2/NDF : 2470712.9/111

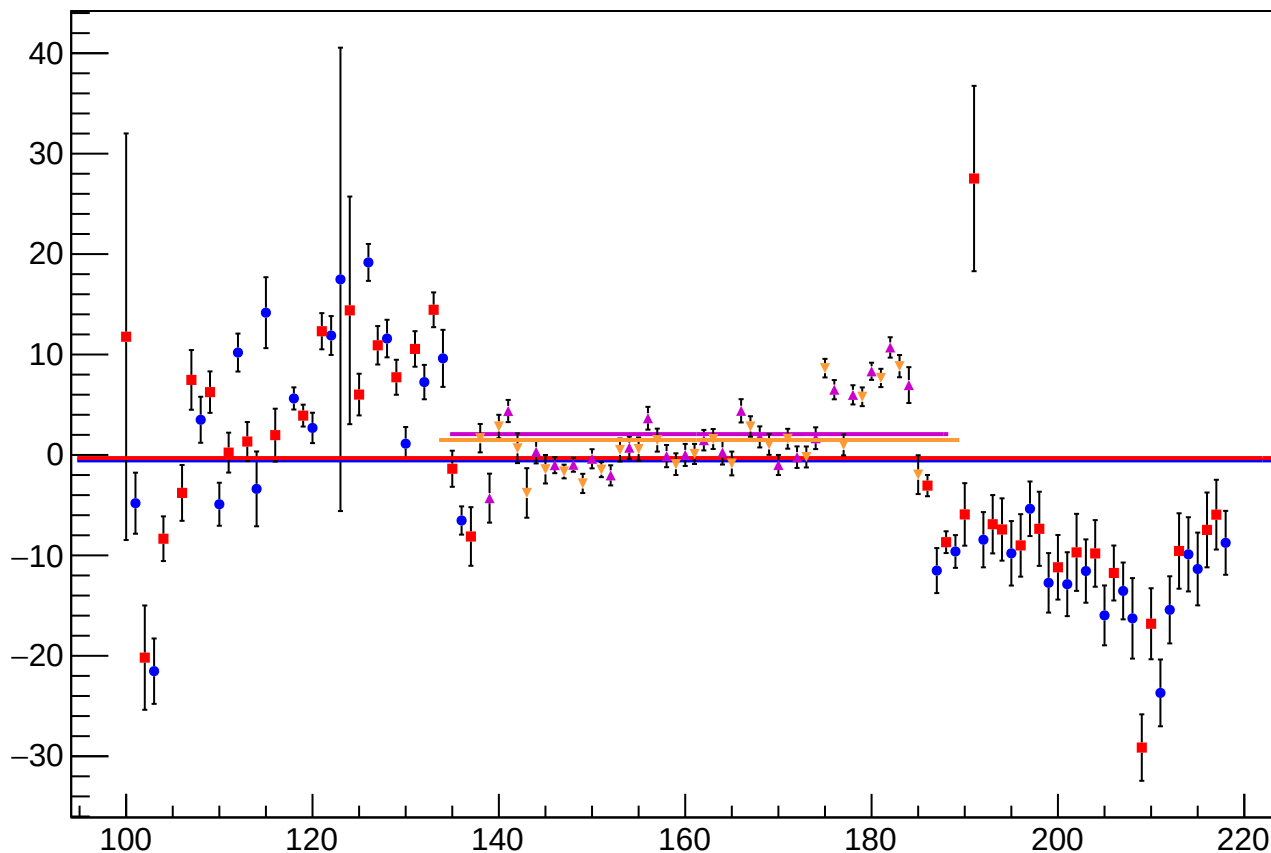
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 51.929 ± 0.492 $\chi^2/\text{NDF}: 667.2/15$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 51.782 ± 0.419 $\chi^2/\text{NDF}: 1630.2/16$
 Left In: -2.270 ± 0.271 $\chi^2/\text{NDF}: 2521.6/22$

Left: -1.844 ± 0.190 $\chi^2/\text{NDF}: 6865.5/47$
 Right: 51.844 ± 0.319 $\chi^2/\text{NDF}: 2297.4/32$
 In: 10.316 ± 0.237 $\chi^2/\text{NDF}: 12495.5/38$
 Out: 13.992 ± 0.226 $\chi^2/\text{NDF}: 17423.2/41$
 All: 12.247 ± 0.163 $\chi^2/\text{NDF}: 30044.8/80$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.545 ± 0.393 χ^2/NDF : 660.9/32

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: -0.309 ± 0.365 χ^2/NDF : 550.7/35

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

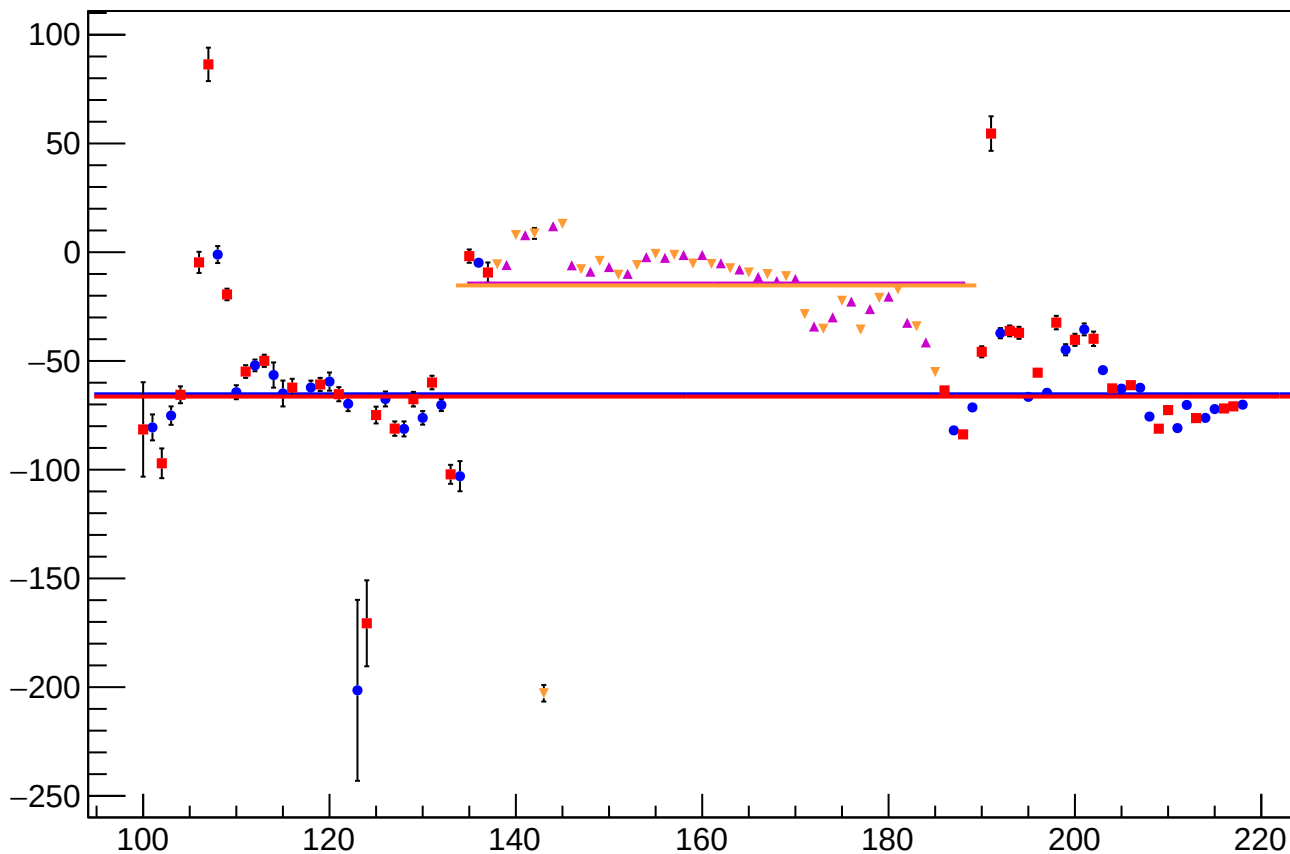
Right: -0.418 ± 0.268 χ^2/NDF : 1211.8/68

In: 1.470 ± 0.189 χ^2/NDF : 969.6/55

Out: 1.043 ± 0.182 χ^2/NDF : 828.0/60

All: 1.249 ± 0.131 χ^2/NDF : 1800.3/116

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.334+/-0.410 χ^2/NDF : 1915.8/32

Left Out: -15.279+/-0.267 χ^2/NDF : 4820.1/24

Right Out: -66.381+/-0.338 χ^2/NDF : 3432.2/35

Left In: -14.406+/-0.269 χ^2/NDF : 2032.4/22

Left: -14.846+/-0.189 χ^2/NDF : 6857.8/47

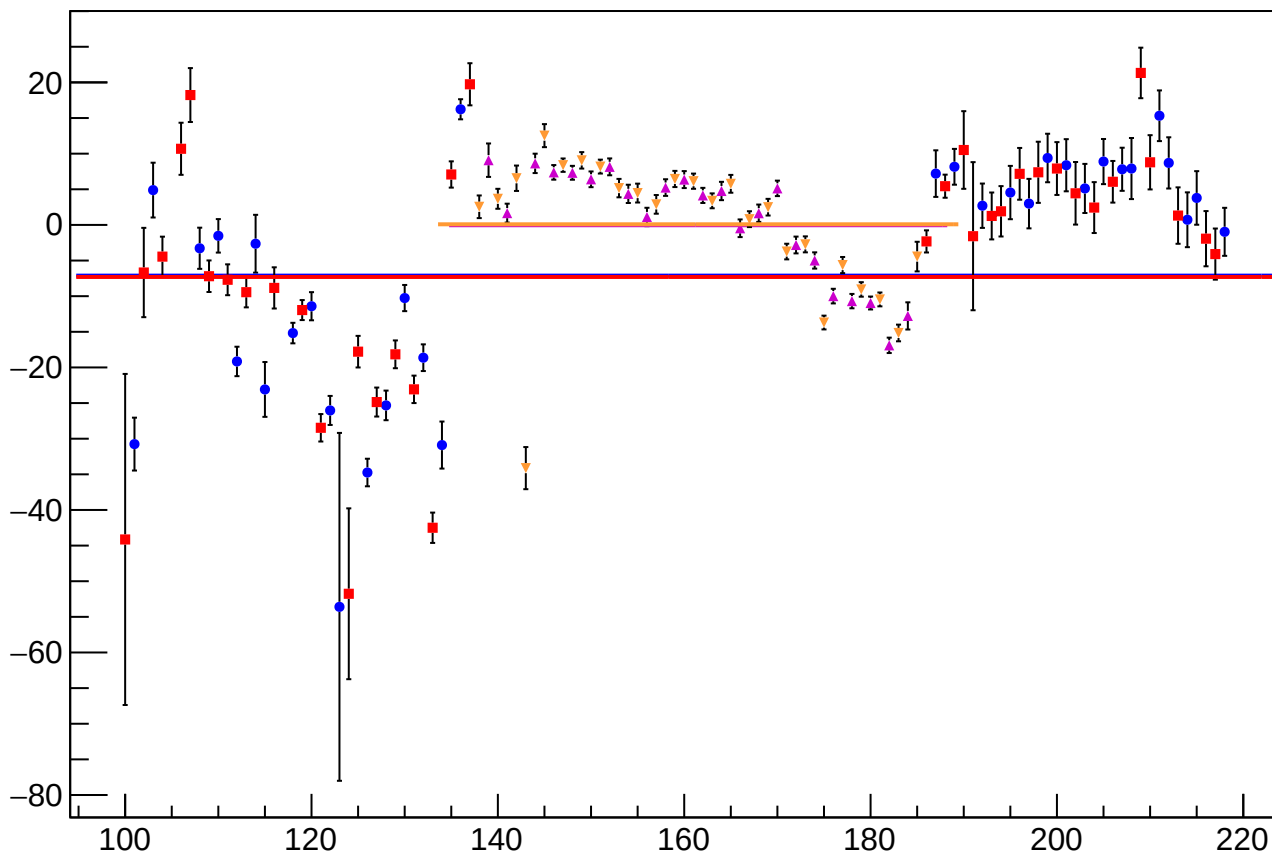
Right: -65.957+/-0.261 χ^2/NDF : 5351.9/68

In: -29.763+/-0.225 χ^2/NDF : 14747.7/55

Out: -34.880+/-0.209 χ^2/NDF : 22324.5/60

All: -32.503+/-0.153 χ^2/NDF : 37349.5/116

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -7.117 ± 0.454 χ^2/NDF : 1159.0/32

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -7.302 ± 0.436 χ^2/NDF : 1100.1/35

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

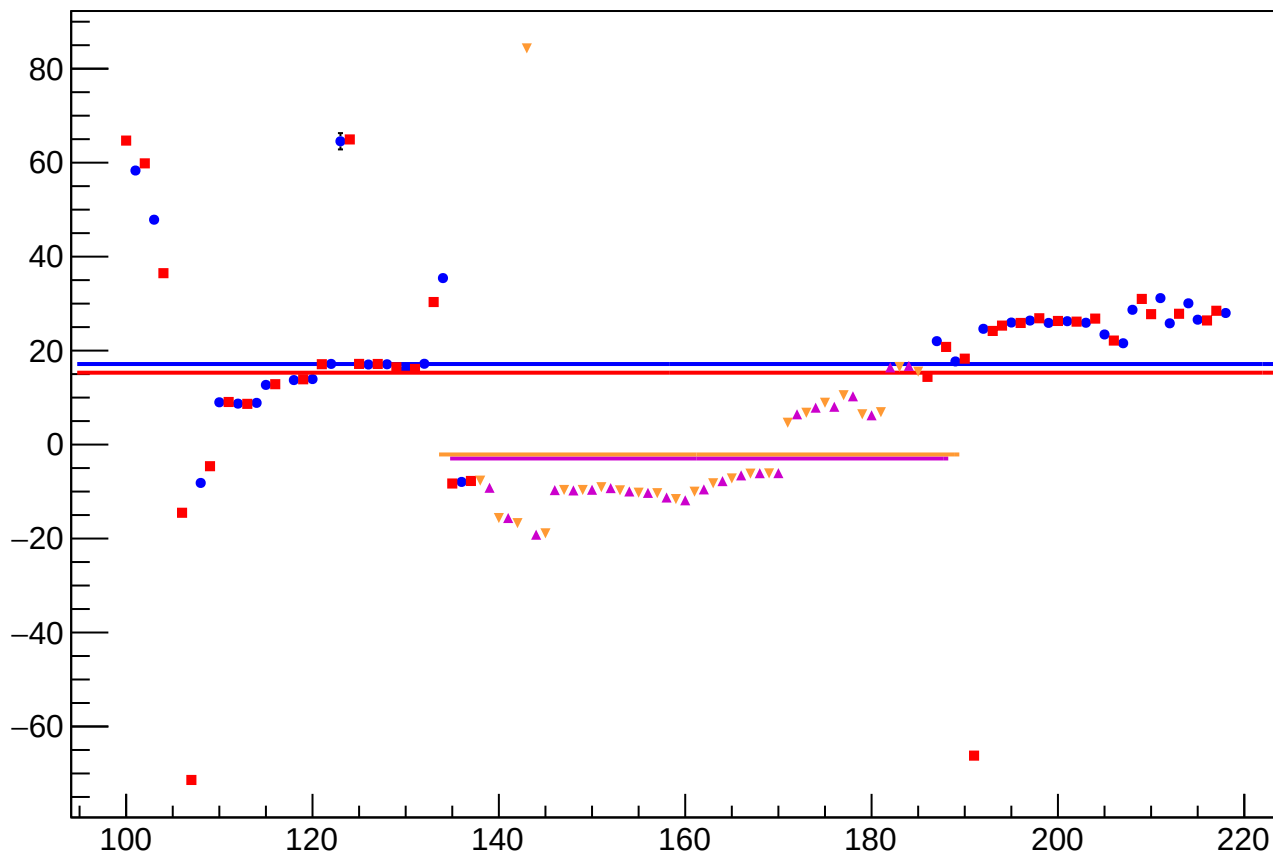
Right: -7.213 ± 0.314 χ^2/NDF : 2259.2/68

In: -1.622 ± 0.214 χ^2/NDF : 2376.1/55

Out: -1.613 ± 0.209 χ^2/NDF : 2493.7/60

All: -1.617 ± 0.150 χ^2/NDF : 4869.9/116

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 17.144+/-0.023 χ^2/NDF : 495895.0/32

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 15.298+/-0.022 χ^2/NDF : 774160.7/35

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

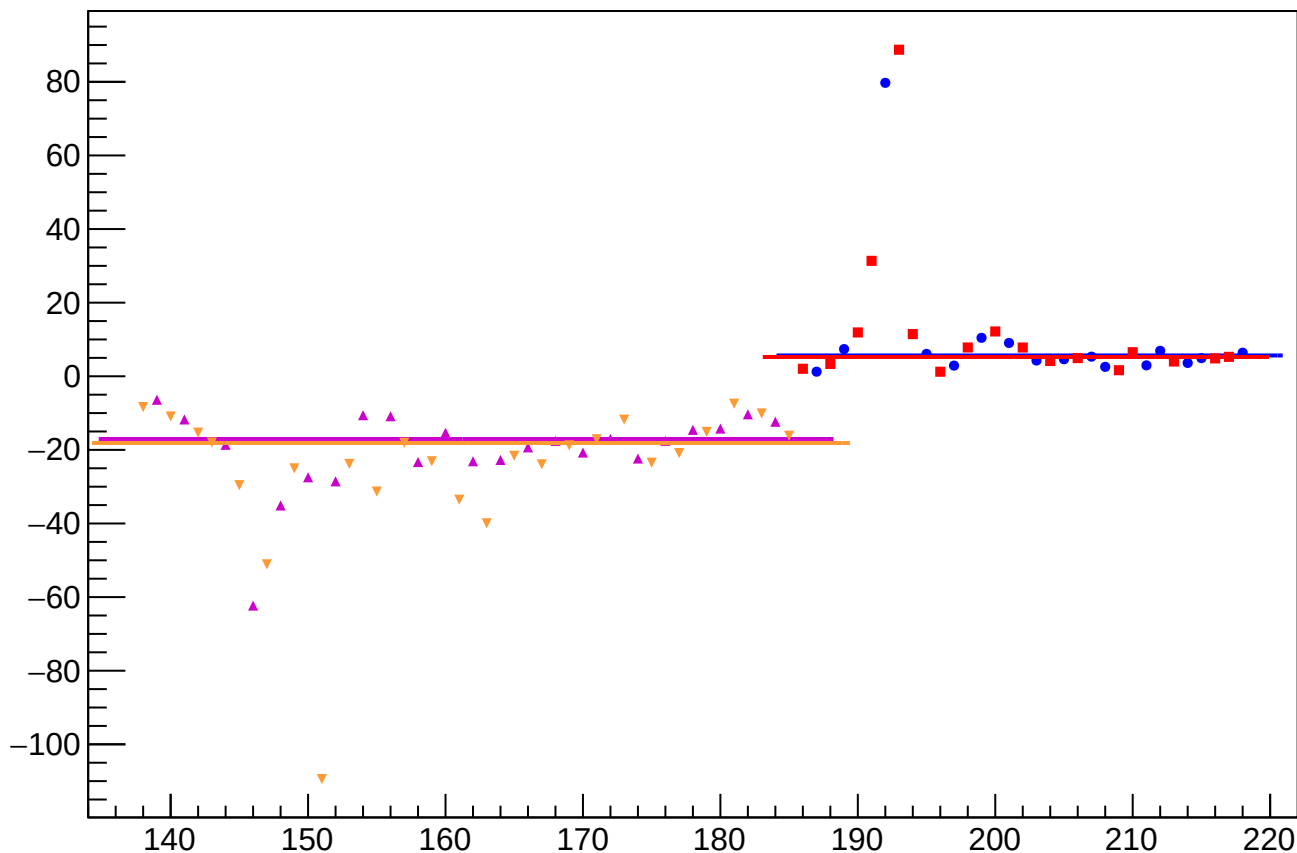
Right: 16.208+/-0.016 χ^2/NDF : 1273463.4/68

In: 0.912+/-0.010 χ^2/NDF : 1901860.3/55

Out: 1.286+/-0.010 χ^2/NDF : 2361982.3/60

All: 1.100+/-0.007 χ^2/NDF : 4264564.6/116

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.653 $\pm$ 0.047 χ^2 /NDF: 26486.8/15

Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF: 88551.6/24

Right Out: 5.241 $\pm$ 0.046 χ^2 /NDF: 26888.1/16

Left In: -17.038 $\pm$ 0.038 χ^2 /NDF: 44141.1/22

Left: -17.572 $\pm$ 0.027 χ^2 /NDF: 133092.4/47

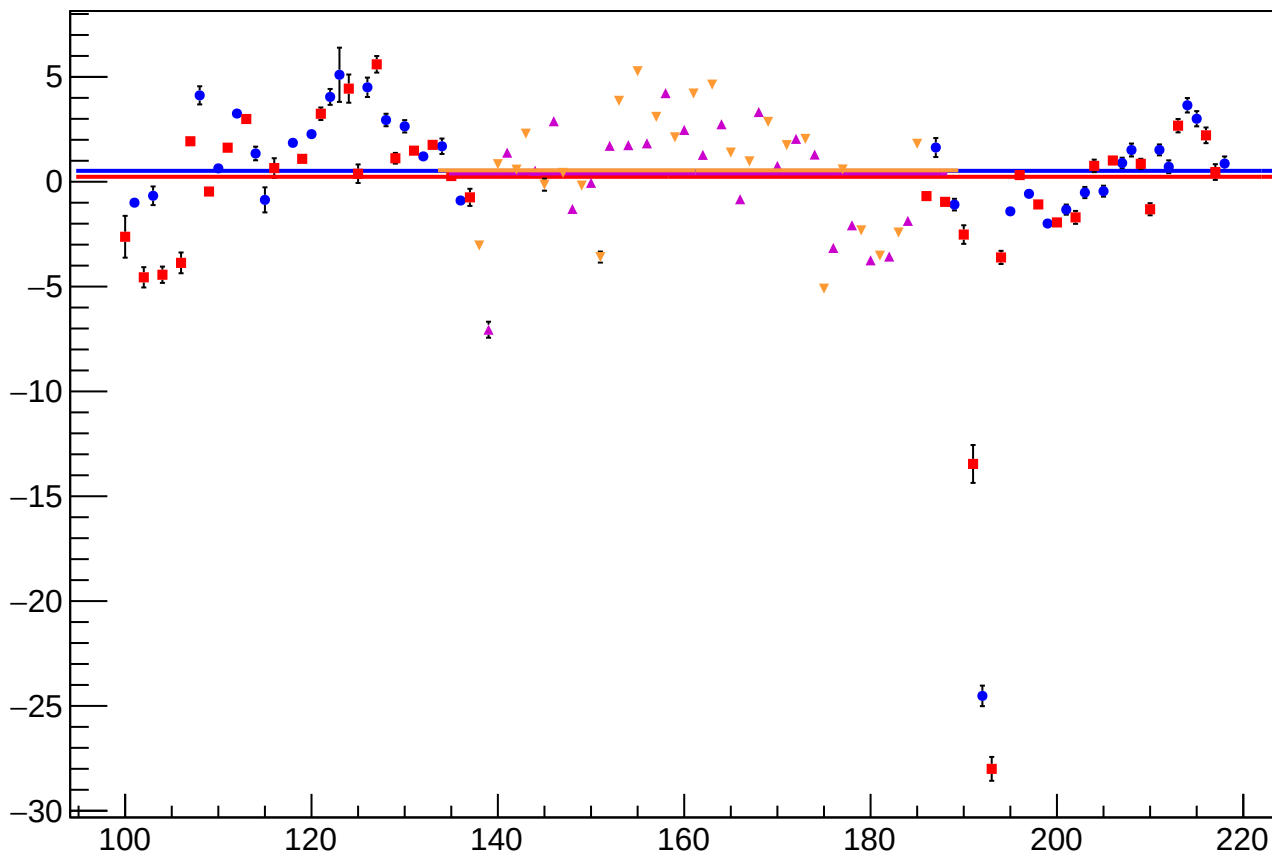
Right: 5.444 $\pm$ 0.033 χ^2 /NDF: 53413.9/32

In: -8.032 $\pm$ 0.030 χ^2 /NDF: 211024.5/38

Out: -8.492 $\pm$ 0.030 χ^2 /NDF: 264147.7/41

All: -8.260 $\pm$ 0.021 χ^2 /NDF: 475292.0/80

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.520 ± 0.046 χ^2/NDF : 3995.4/32

Left Out: 0.543 ± 0.032 χ^2/NDF : 7085.3/24

Right Out: 0.236 ± 0.044 χ^2/NDF : 4388.0/35

Left In: 0.397 ± 0.031 χ^2/NDF : 6235.6/22

Left: 0.466 ± 0.022 χ^2/NDF : 13331.6/47

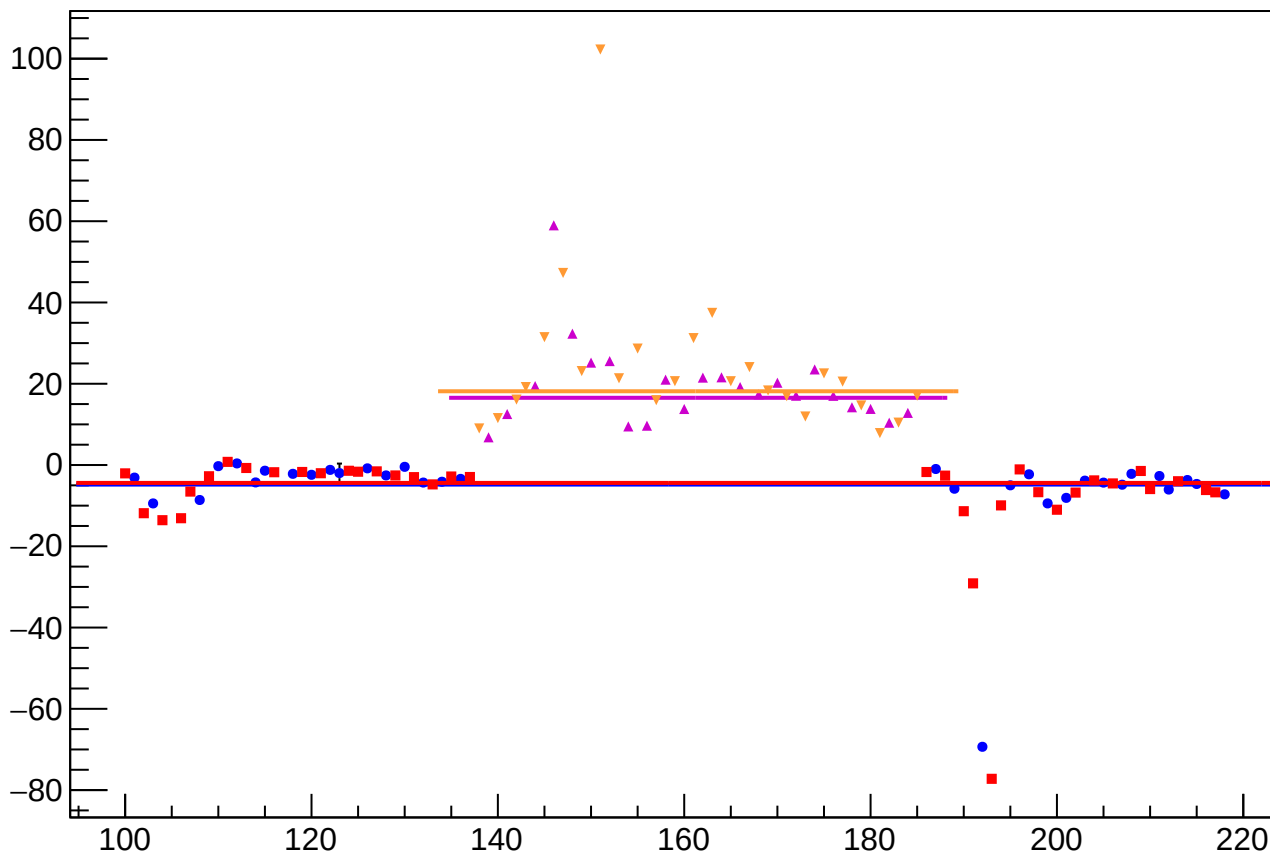
Right: 0.371 ± 0.032 χ^2/NDF : 8403.6/68

In: 0.435 ± 0.025 χ^2/NDF : 10235.9/55

Out: 0.434 ± 0.026 χ^2/NDF : 11505.4/60

All: 0.435 ± 0.018 χ^2/NDF : 21741.3/116

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.812 ± 0.042 $\chi^2/\text{NDF}: 27400.6/32$

Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$

Right Out: -4.404 ± 0.040 $\chi^2/\text{NDF}: 28422.3/35$

Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$

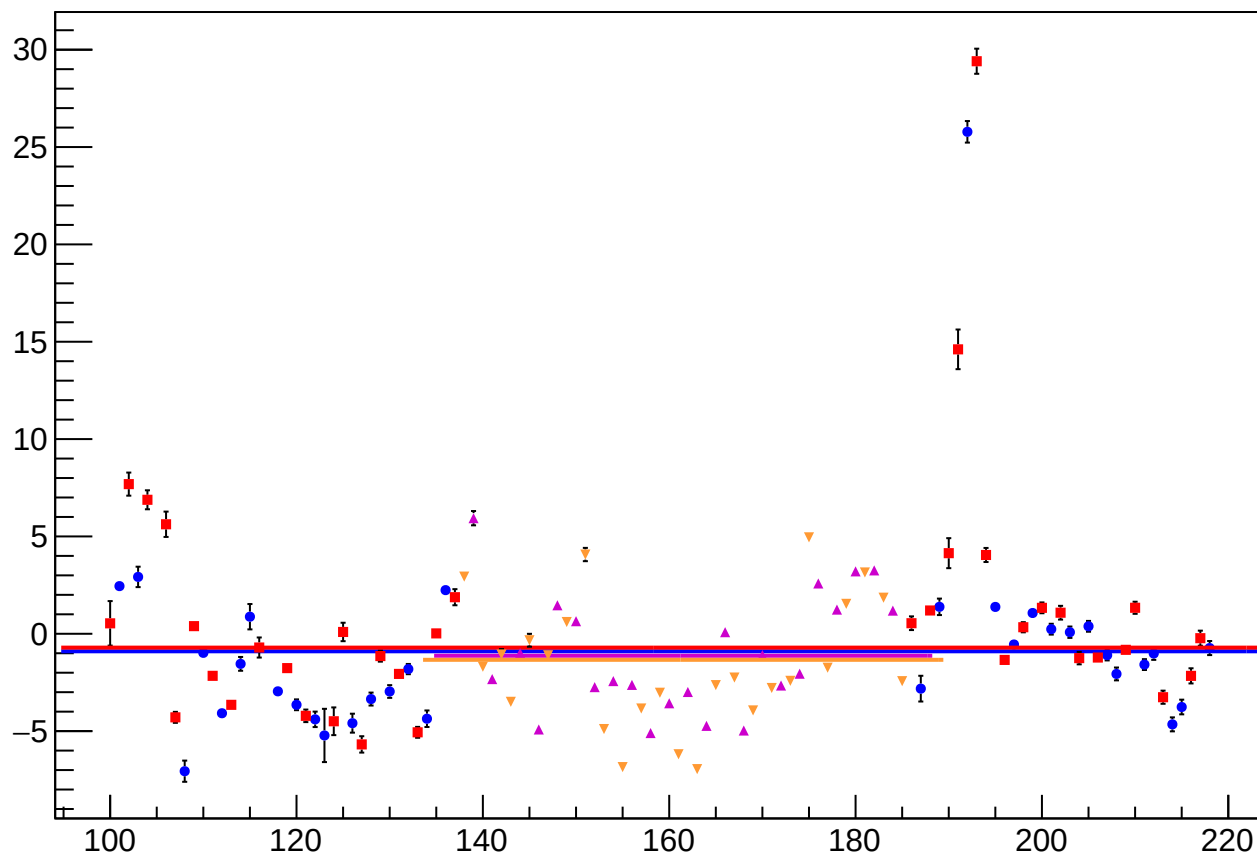
Right: -4.597 ± 0.029 $\chi^2/\text{NDF}: 55873.0/68$

In: 6.977 ± 0.028 $\chi^2/\text{NDF}: 211545.5/55$

Out: 7.006 ± 0.028 $\chi^2/\text{NDF}: 270716.8/60$

All: 6.992 ± 0.020 $\chi^2/\text{NDF}: 482262.8/116$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.900 ± 0.052 χ^2/NDF : 4115.1/32

Left Out: -1.338 ± 0.036 χ^2/NDF : 7943.1/24

Right Out: -0.711 ± 0.050 χ^2/NDF : 4591.1/35

Left In: -1.129 ± 0.034 χ^2/NDF : 6740.3/22

Left: -1.228 ± 0.025 χ^2/NDF : 14701.0/47

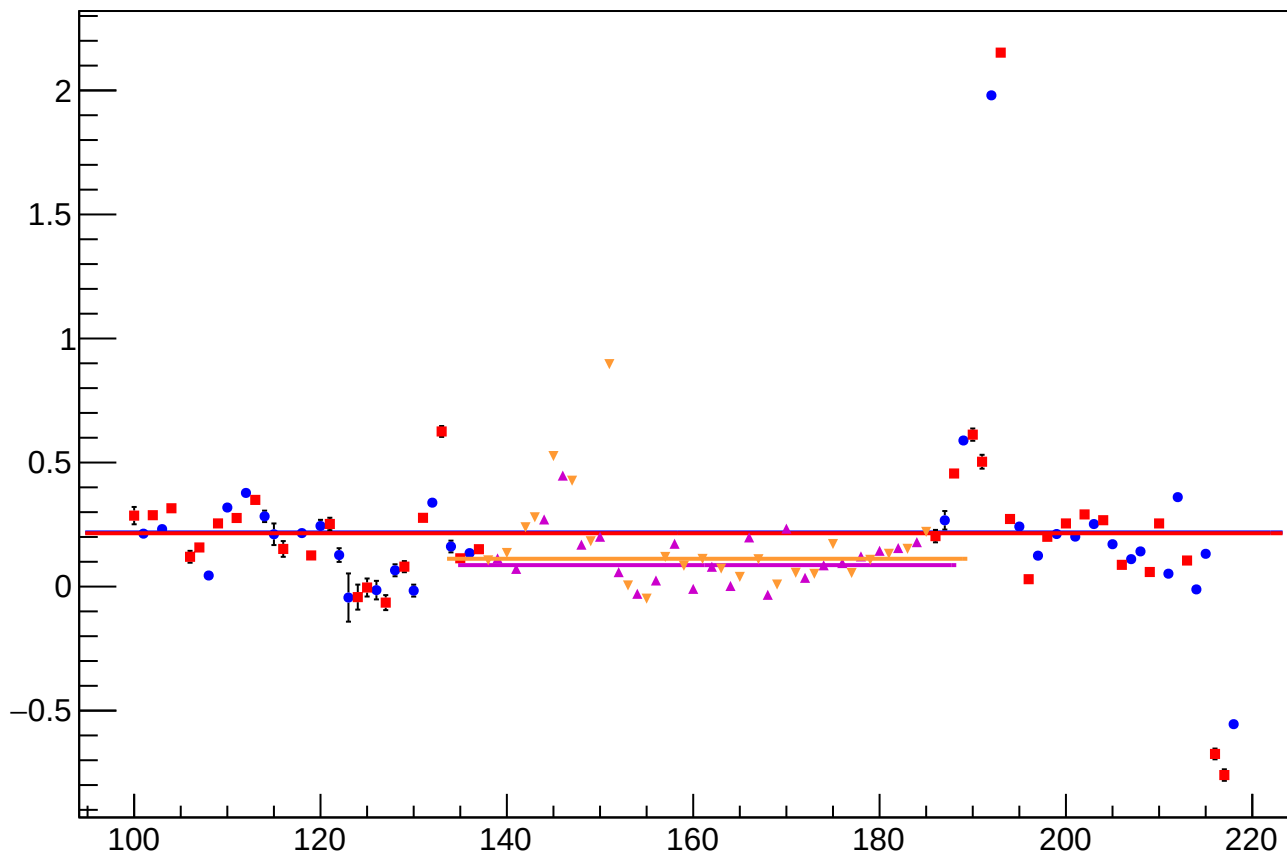
Right: -0.802 ± 0.036 χ^2/NDF : 8713.0/68

In: -1.061 ± 0.029 χ^2/NDF : 10868.8/55

Out: -1.126 ± 0.029 χ^2/NDF : 12637.0/60

All: -1.093 ± 0.020 χ^2/NDF : 23508.3/116

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.218 $\pm$ 0.002 χ^2 /NDF: 13347.3/32

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.215 $\pm$ 0.002 χ^2 /NDF: 15696.1/35

Left In: 0.087 $\pm$ 0.002 χ^2 /NDF:3655.4/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8295.3/47

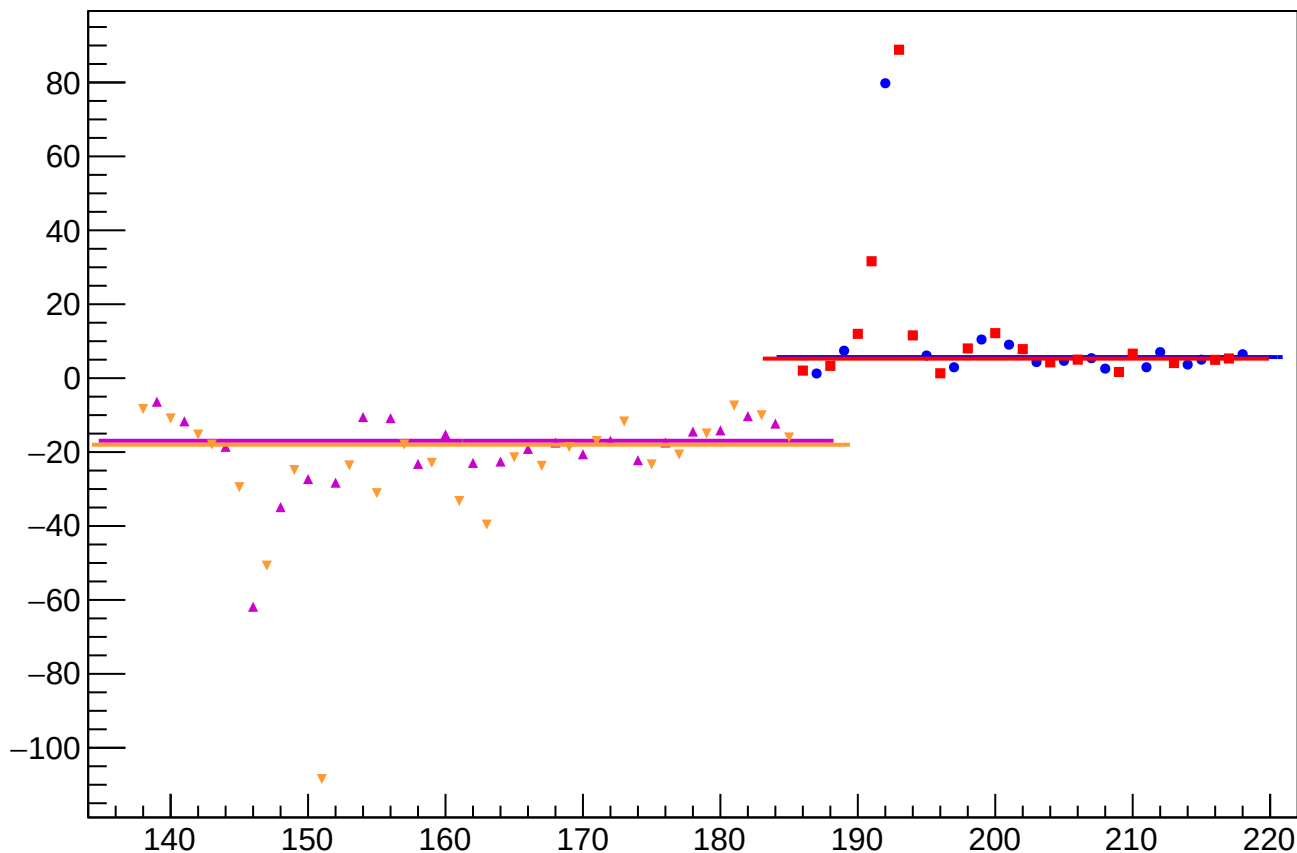
Right: 0.217 $\pm$ 0.002 χ^2 /NDF: 29044.4/68

In: 0.125 $\pm$ 0.001 χ^2 /NDF:19257.0/55

Out: 0.146 $\pm$ 0.001 χ^2 /NDF:21552.6/60

All: 0.135 $\pm$ 0.001 χ^2 /NDF: 40940.5/116

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.703 $\pm$ 0.047 χ^2 /NDF: 26702.2/15

Left Out: -18.005 $\pm$ 0.039 χ^2 /NDF: 88391.0/24

Right Out: 5.286 $\pm$ 0.046 χ^2 /NDF: 27242.6/16

Left In: -16.934 $\pm$ 0.038 χ^2 /NDF: 44060.6/22

Left: -17.459 $\pm$ 0.027 χ^2 /NDF: 132843.0/47

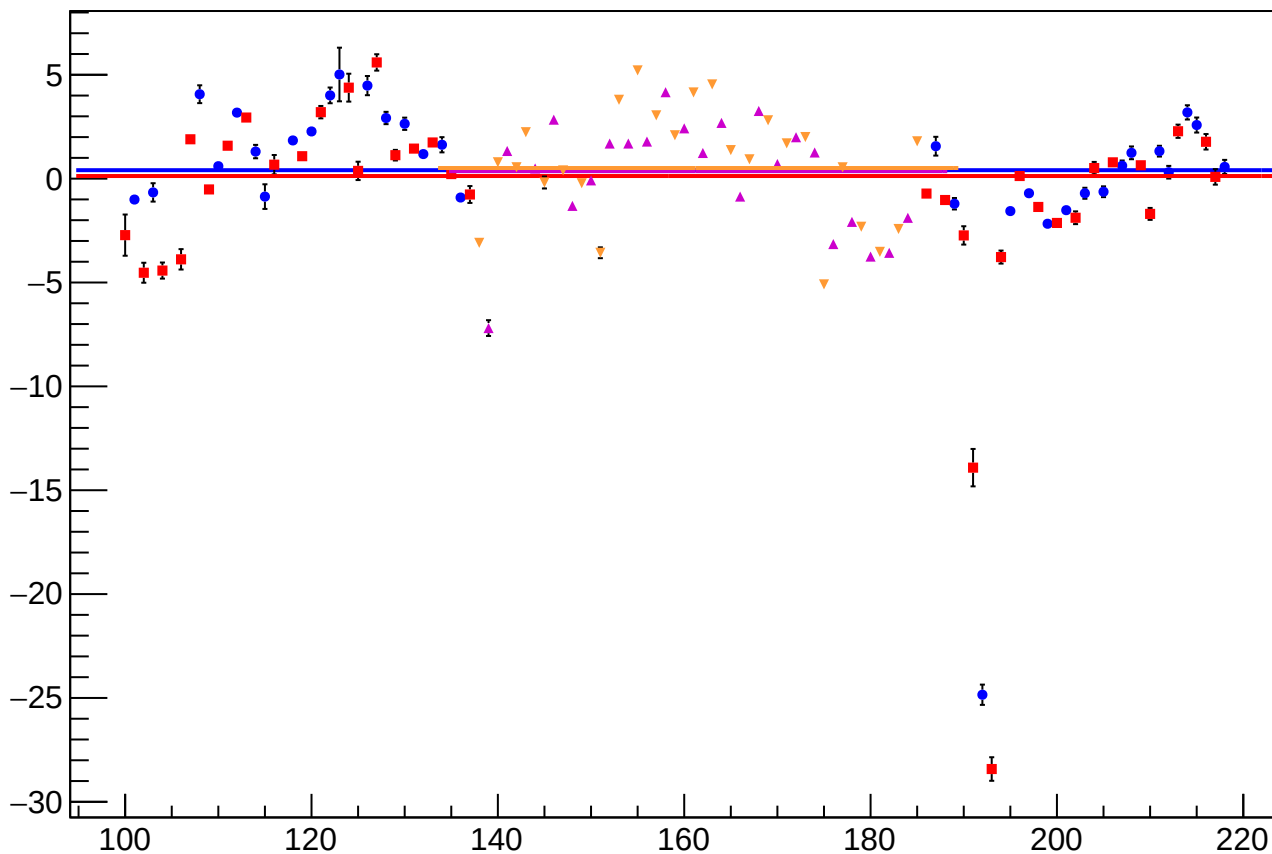
Right: 5.492 $\pm$ 0.033 χ^2 /NDF: 53985.0/32

In: -7.976 $\pm$ 0.029 χ^2 /NDF: 211926.9/38

Out: -8.412 $\pm$ 0.030 χ^2 /NDF: 265276.2/41

All: -8.192 $\pm$ 0.021 χ^2 /NDF: 477312.2/80

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.407 ± 0.045 $\chi^2/\text{NDF}: 4090.7/32$

Left Out: 0.511 ± 0.032 $\chi^2/\text{NDF}: 7070.4/24$

Right Out: 0.126 ± 0.043 $\chi^2/\text{NDF}: 4534.6/35$

Left In: 0.360 ± 0.031 $\chi^2/\text{NDF}: 6221.1/22$

Left: 0.432 ± 0.022 $\chi^2/\text{NDF}: 13303.2/47$

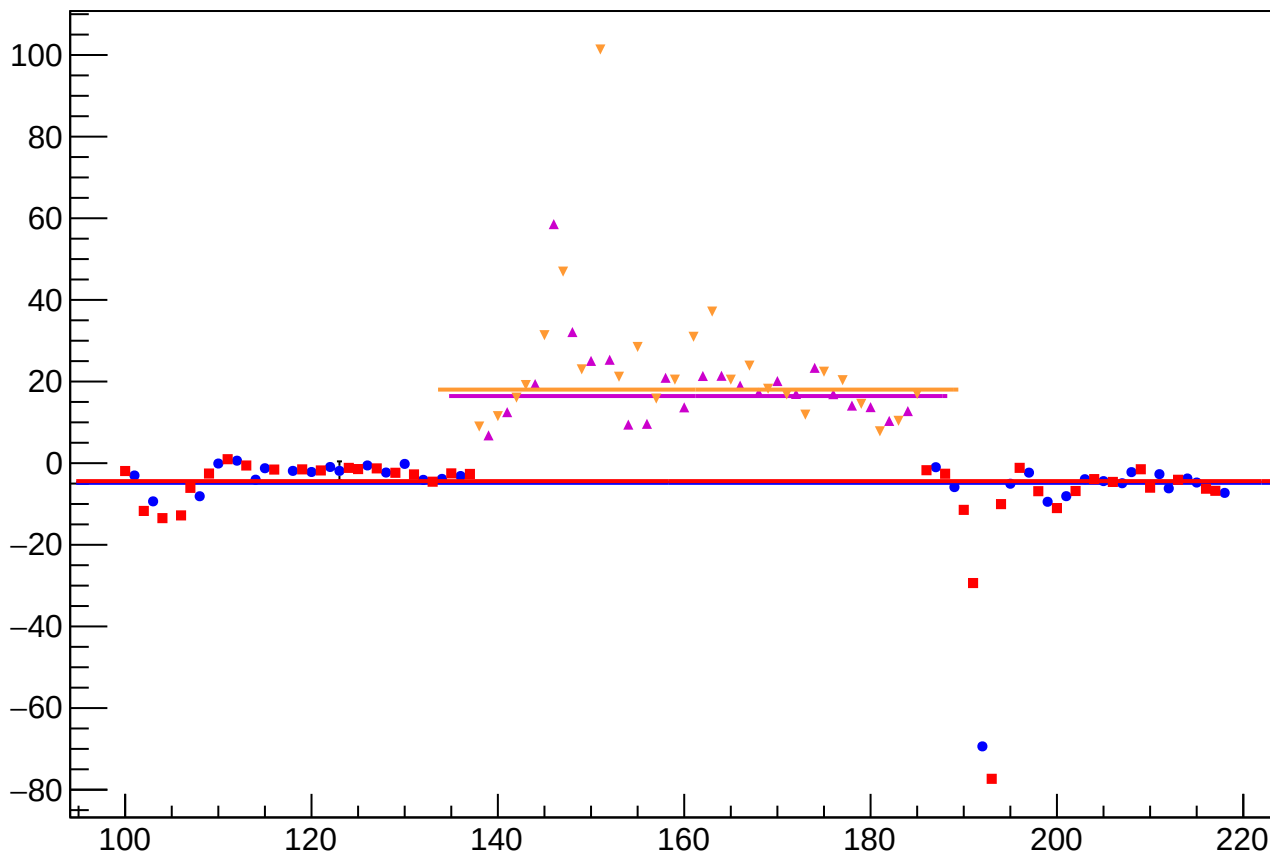
Right: 0.260 ± 0.031 $\chi^2/\text{NDF}: 8645.3/68$

In: 0.374 ± 0.025 $\chi^2/\text{NDF}: 10312.6/55$

Out: 0.375 ± 0.026 $\chi^2/\text{NDF}: 11655.9/60$

All: 0.375 ± 0.018 $\chi^2/\text{NDF}: 21968.5/116$

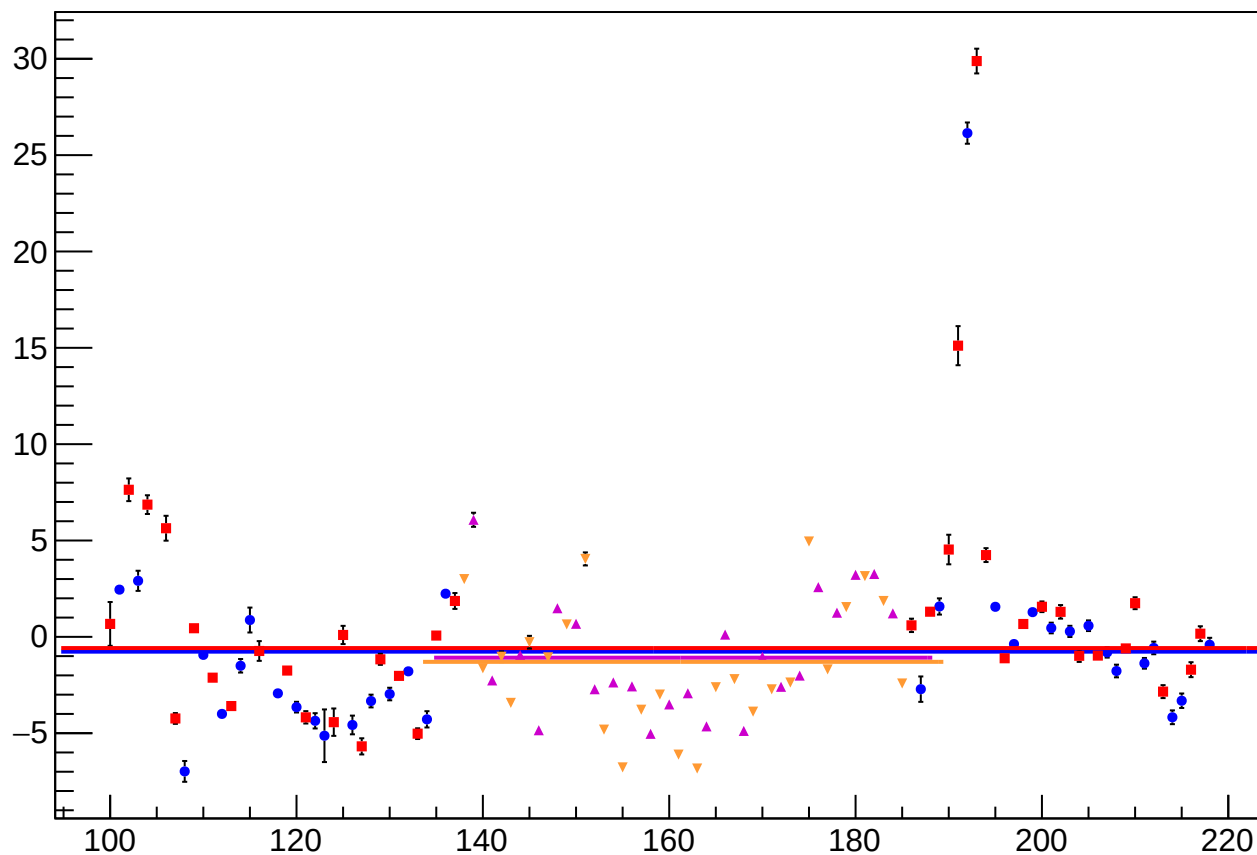
reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.818 ± 0.042 $\chi^2/\text{NDF}: 27728.1/32$
 Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$
 Right Out: -4.397 ± 0.039 $\chi^2/\text{NDF}: 28904.0/35$
 Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$
 Right: -4.595 ± 0.029 $\chi^2/\text{NDF}: 56686.1/68$
 In: 6.943 ± 0.028 $\chi^2/\text{NDF}: 212063.8/55$
 Out: 6.955 ± 0.028 $\chi^2/\text{NDF}: 271367.7/60$
 All: 6.949 ± 0.020 $\chi^2/\text{NDF}: 483431.6/116$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

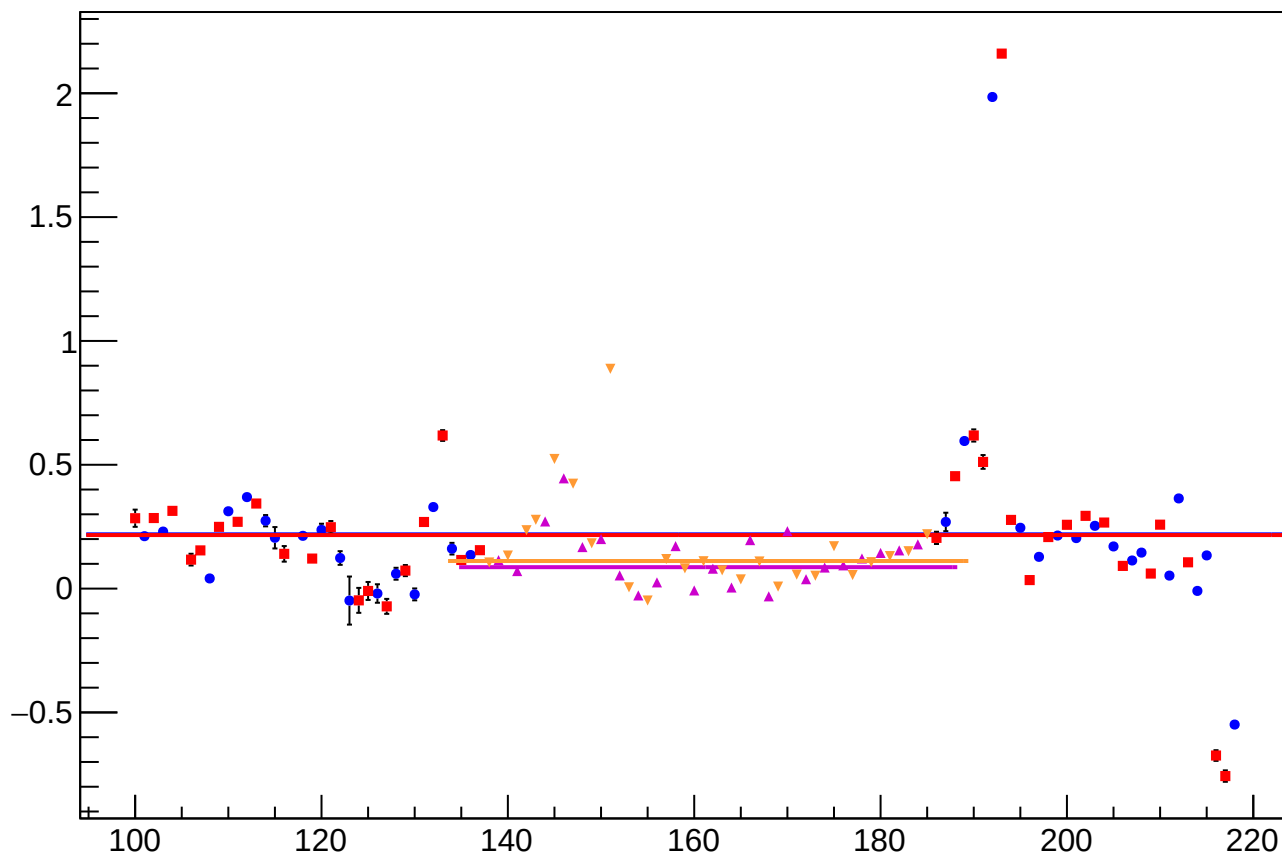


Right In: -0.768 ± 0.052 χ^2/NDF : 4187.2/32
 Left Out: -1.297 ± 0.036 χ^2/NDF : 7925.1/24
 Right Out: -0.582 ± 0.050 χ^2/NDF : 4738.9/35
 Left In: -1.082 ± 0.034 χ^2/NDF : 6724.1/22

Left: -1.184 ± 0.025 χ^2/NDF : 14668.4/47
 Right: -0.671 ± 0.036 χ^2/NDF : 8932.8/68
 In: -0.988 ± 0.028 χ^2/NDF : 10936.9/55
 Out: -1.056 ± 0.029 χ^2/NDF : 12799.5/60

All: -1.021 ± 0.020 χ^2/NDF : 23739.2/116

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.219 $\pm$ 0.002 χ^2 /NDF: 13467.5/32

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.216 $\pm$ 0.002 χ^2 /NDF: 15846.0/35

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3625.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8251.9/47

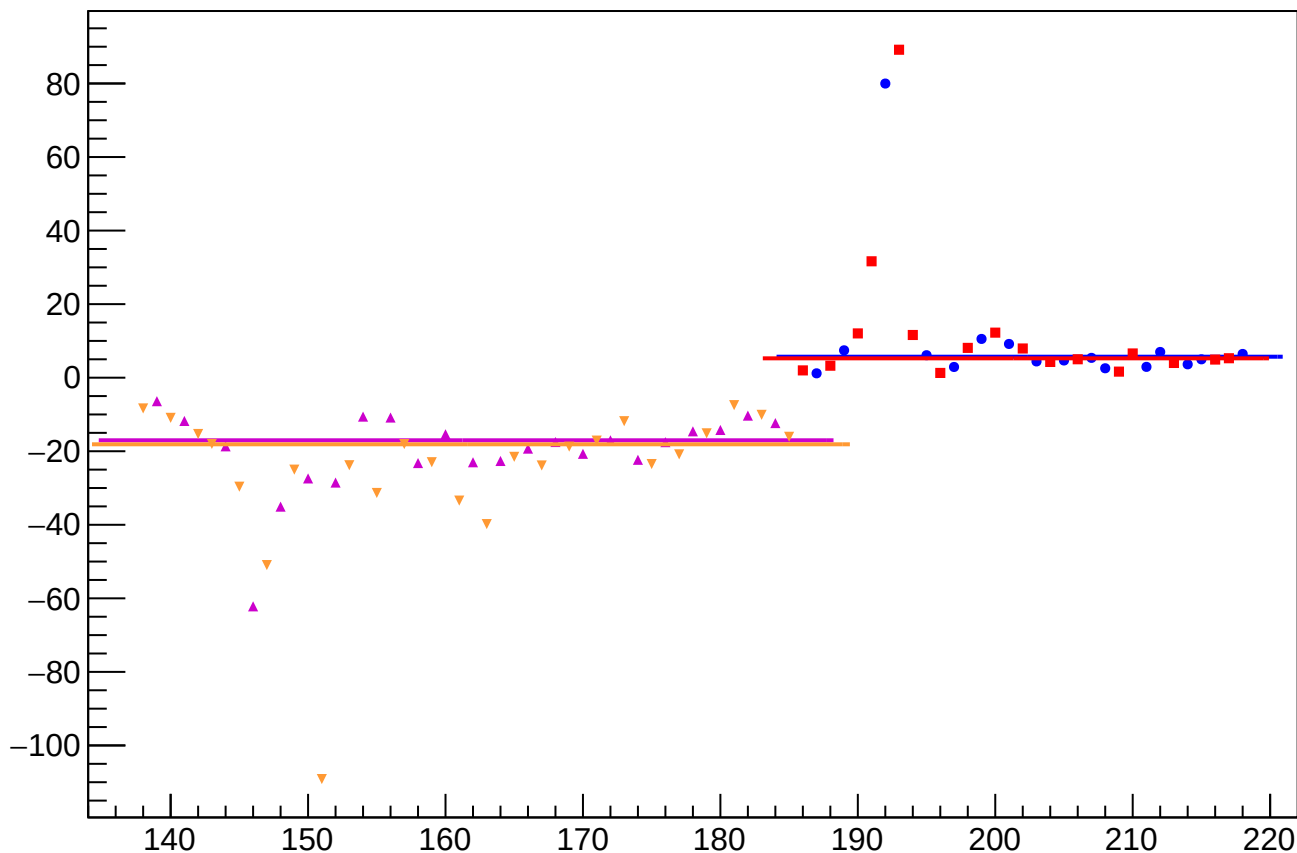
Right: 0.218 $\pm$ 0.002 χ^2 /NDF: 29314.3/68

In: 0.125 $\pm$ 0.001 χ^2 /NDF:19398.0/55

Out: 0.146 $\pm$ 0.001 χ^2 /NDF:21760.3/60

All: 0.135 $\pm$ 0.001 χ^2 /NDF: 41286.7/116

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.704 $\pm$ 0.047 χ^2 /NDF: 26696.3/15

Left Out: -18.112 $\pm$ 0.039 χ^2 /NDF: 88529.7/24

Right Out: 5.261 $\pm$ 0.046 χ^2 /NDF: 27264.0/16

Left In: -17.024 $\pm$ 0.038 χ^2 /NDF: 44141.8/22

Left: -17.557 $\pm$ 0.027 χ^2 /NDF: 133072.9/47

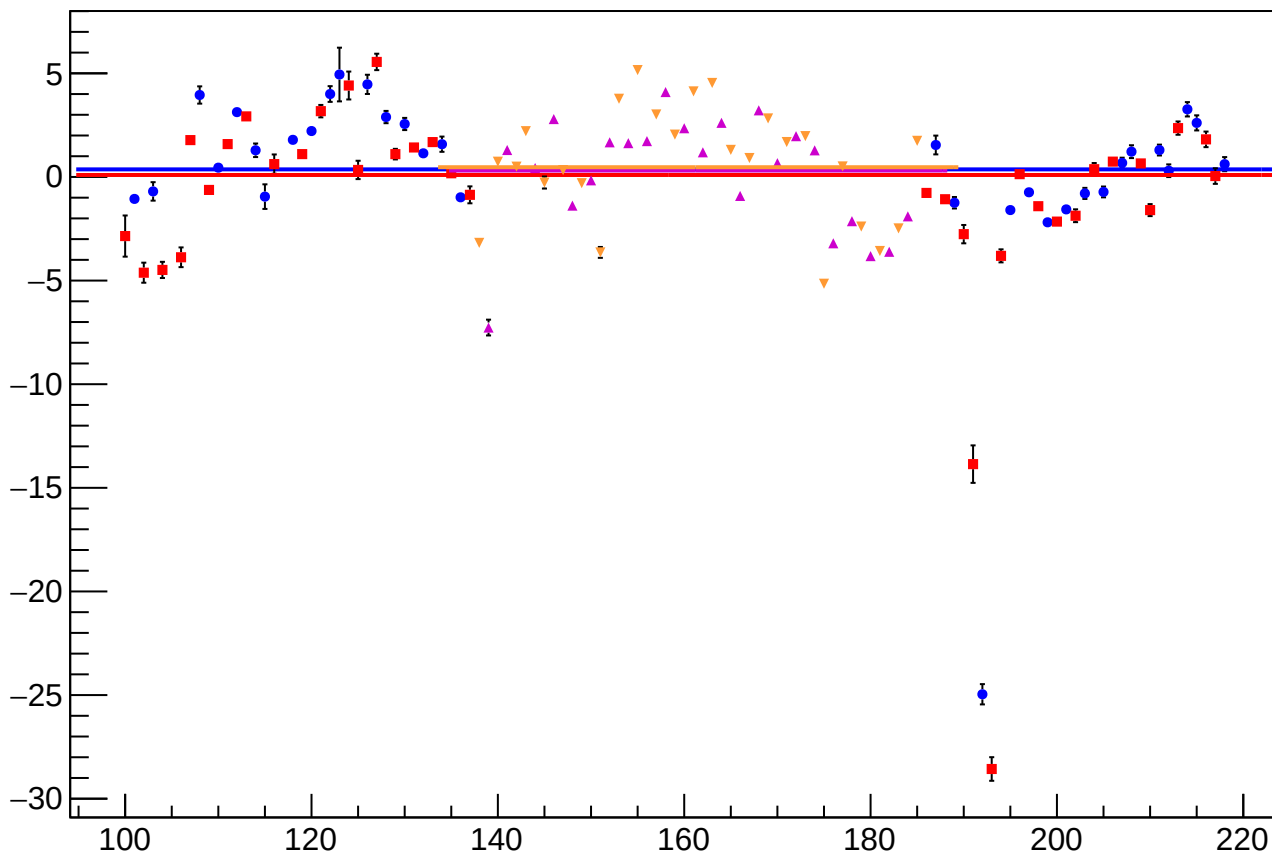
Right: 5.479 $\pm$ 0.033 χ^2 /NDF: 54005.1/32

In: -8.062 $\pm$ 0.030 χ^2 /NDF: 211523.6/38

Out: -8.493 $\pm$ 0.030 χ^2 /NDF: 265100.0/41

All: -8.276 $\pm$ 0.021 χ^2 /NDF: 476728.8/80

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.366 ± 0.046 χ^2/NDF : 4086.3/32

Left Out: 0.469 ± 0.032 χ^2/NDF : 7093.0/24

Right Out: 0.095 ± 0.044 χ^2/NDF : 4527.4/35

Left In: 0.311 ± 0.031 χ^2/NDF : 6183.1/22

Left: 0.386 ± 0.022 χ^2/NDF : 13288.8/47

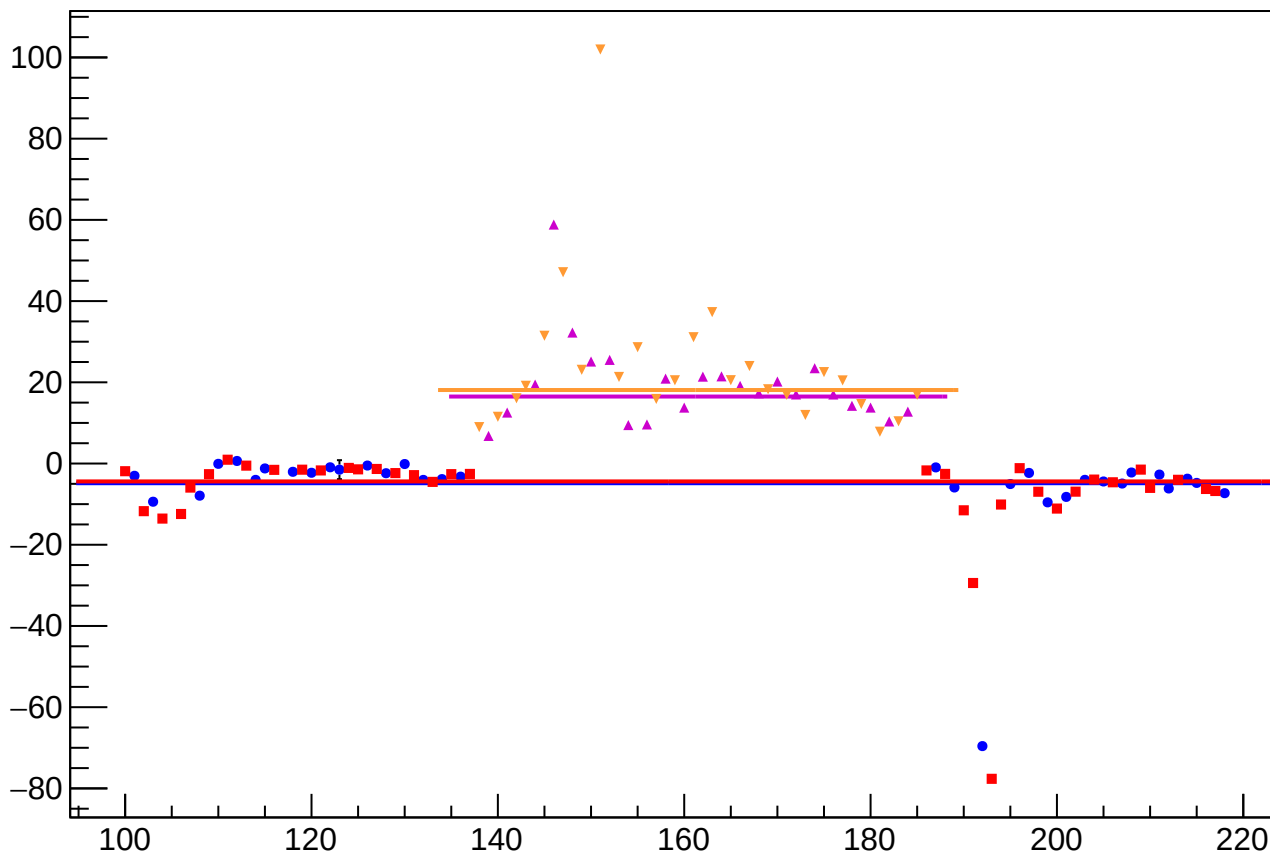
Right: 0.224 ± 0.032 χ^2/NDF : 8632.0/68

In: 0.328 ± 0.025 χ^2/NDF : 10270.4/55

Out: 0.337 ± 0.026 χ^2/NDF : 11668.0/60

All: 0.332 ± 0.018 χ^2/NDF : 21938.4/116

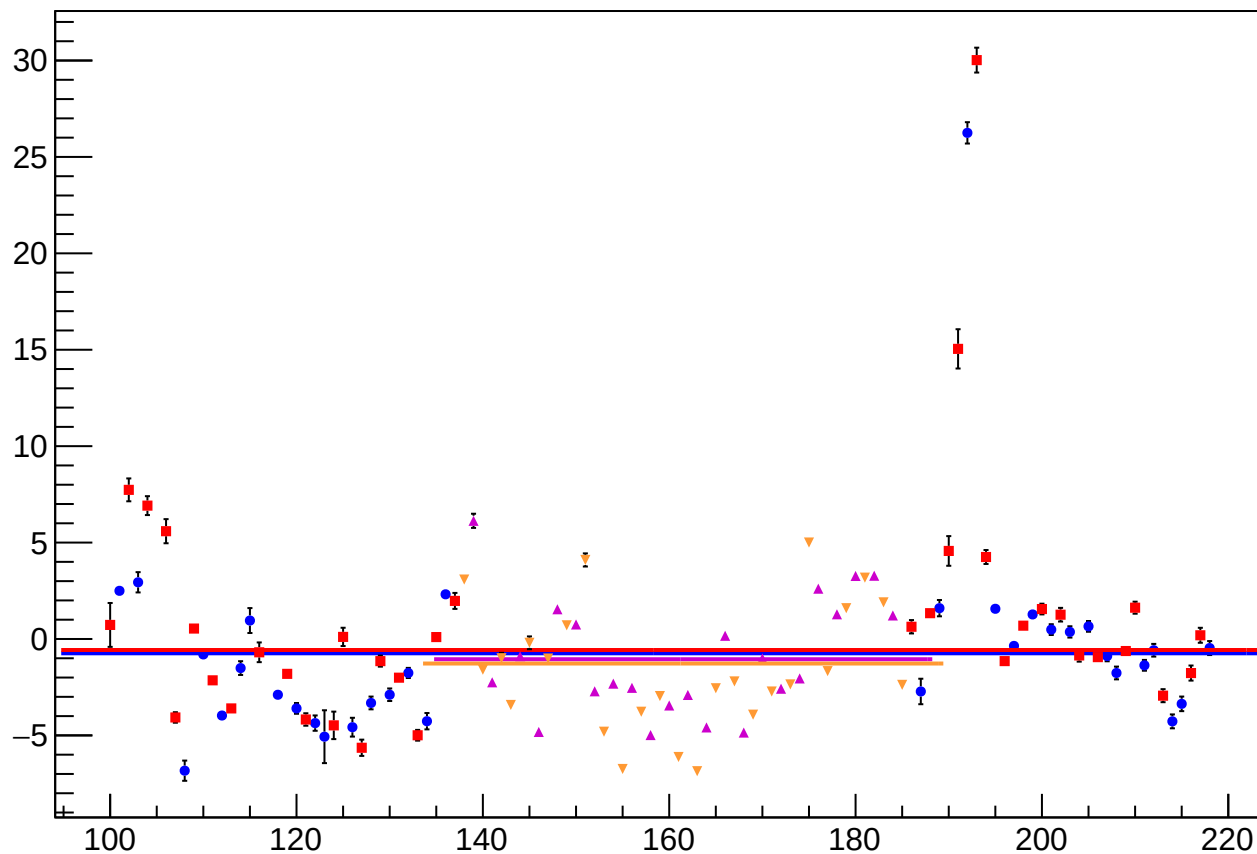
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.847+/-0.042 χ^2/NDF : 27718.5/32
 Left Out: 18.101+/-0.039 χ^2/NDF : 77839.7/24
 Right Out: -4.404+/-0.039 χ^2/NDF : 28907.7/35
 Left In: 16.496+/-0.038 χ^2/NDF : 40867.3/22

Left: 17.270+/-0.027 χ^2/NDF : 119584.1/47
 Right: -4.611+/-0.029 χ^2/NDF : 56685.3/68
 In: 6.989+/-0.028 χ^2/NDF : 211693.2/55
 Out: 6.989+/-0.028 χ^2/NDF : 271260.2/60
 All: 6.989+/-0.020 χ^2/NDF : 482953.4/116

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

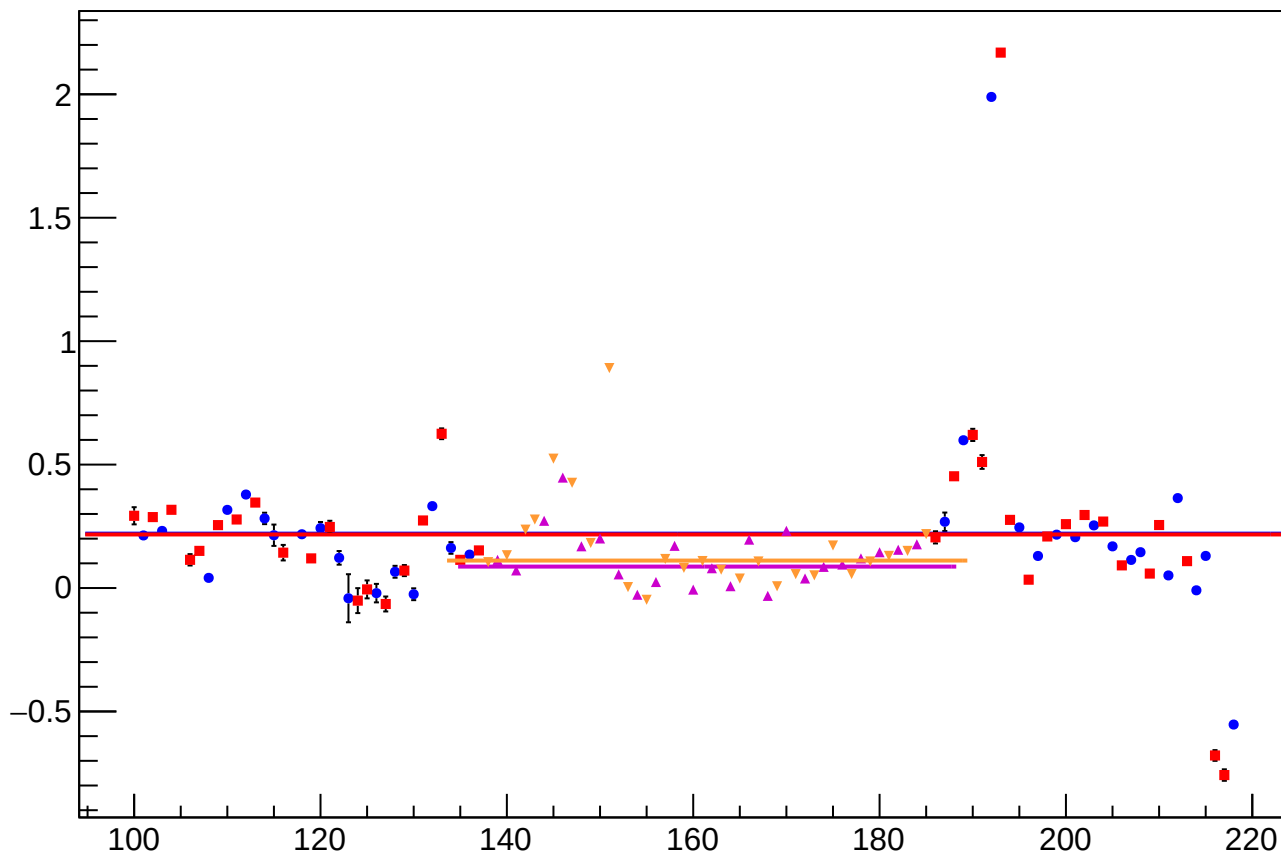


Right In: -0.742 ± 0.052 $\chi^2/\text{NDF}: 4187.1/32$
 Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$
 Right Out: -0.572 ± 0.050 $\chi^2/\text{NDF}: 4733.2/35$
 Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$
 Right: -0.654 ± 0.036 $\chi^2/\text{NDF}: 8925.9/68$
 In: -0.959 ± 0.029 $\chi^2/\text{NDF}: 10884.8/55$
 Out: -1.037 ± 0.029 $\chi^2/\text{NDF}: 12814.0/60$

All: -0.997 ± 0.020 $\chi^2/\text{NDF}: 23702.5/116$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.220+/-0.002 χ^2/NDF : 13461.2/32

Left Out: 0.111+/-0.002 χ^2/NDF : 4474.5/24

Right Out: 0.217+/-0.002 χ^2/NDF : 15834.9/35

Left In: 0.087+/-0.001 χ^2/NDF : 3598.5/22

Left: 0.098+/-0.001 χ^2/NDF : 8197.1/47

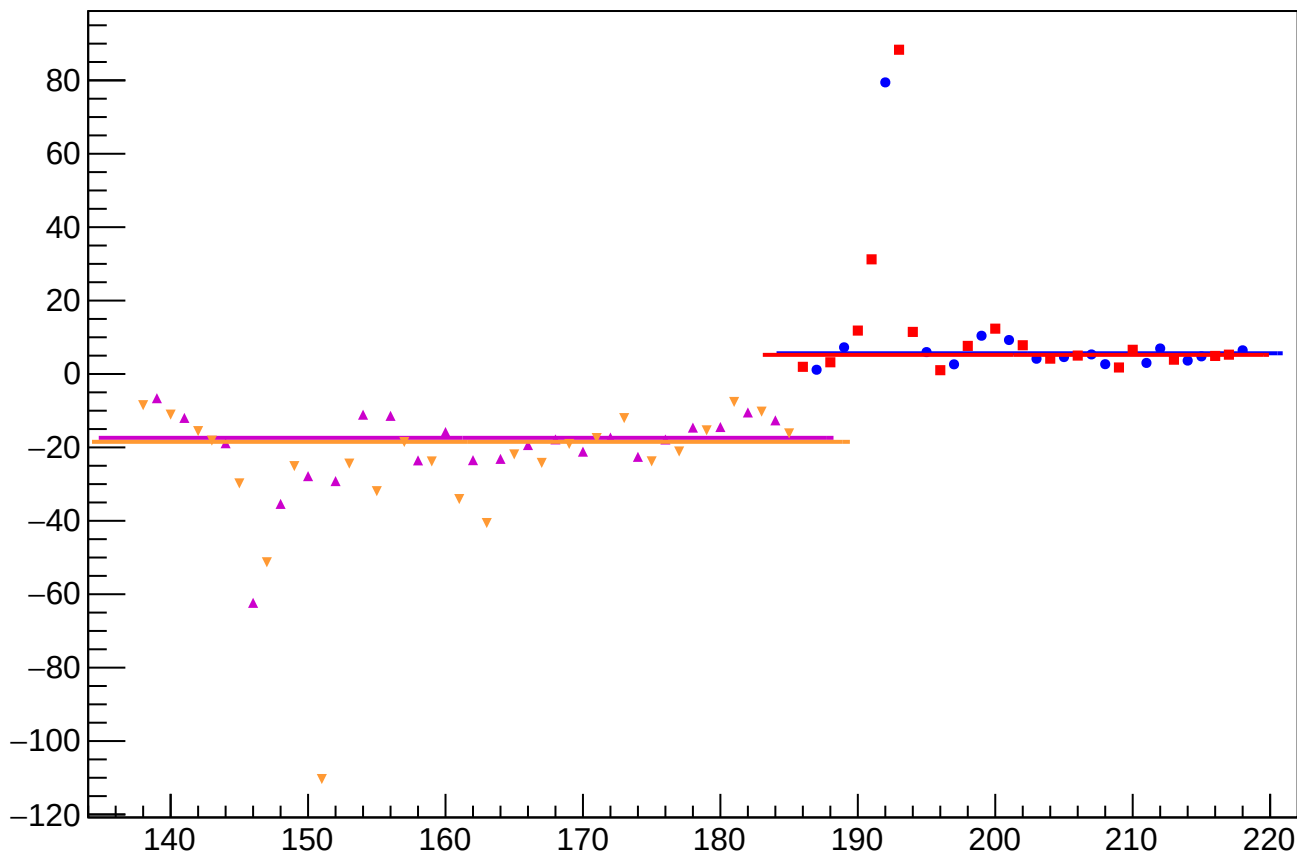
Right: 0.219+/-0.002 χ^2/NDF : 29297.2/68

In: 0.126+/-0.001 χ^2/NDF : 19371.1/55

Out: 0.146+/-0.001 χ^2/NDF : 21741.8/60

All: 0.135+/-0.001 χ^2/NDF : 41236.2/116

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.645 ± 0.047 $\chi^2/\text{NDF}: 26219.9/15$

Left Out: -18.479 ± 0.040 $\chi^2/\text{NDF}: 87883.4/24$

Right Out: 5.216 ± 0.047 $\chi^2/\text{NDF}: 26683.2/16$

Left In: -17.393 ± 0.039 $\chi^2/\text{NDF}: 43178.9/22$

Left: -17.926 ± 0.028 $\chi^2/\text{NDF}: 131443.9/47$

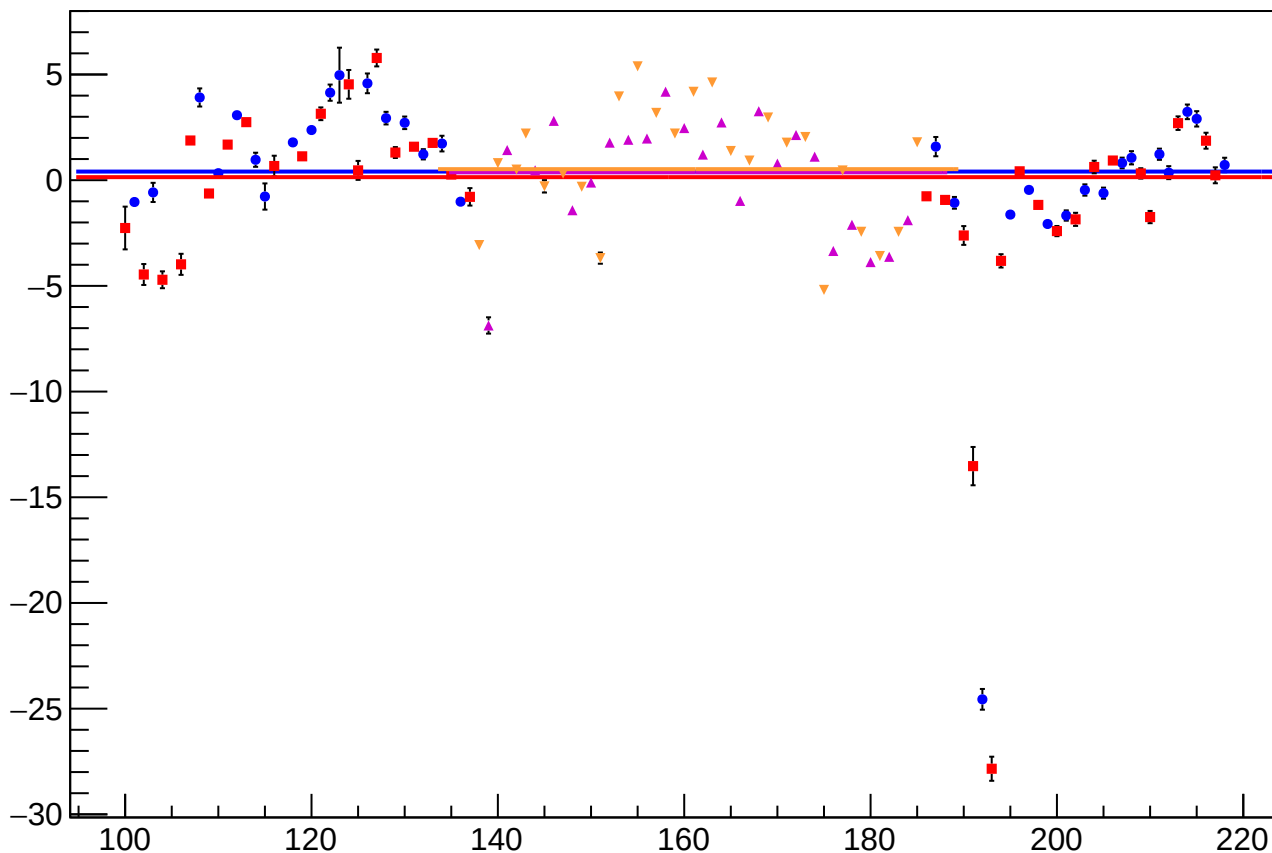
Right: 5.427 ± 0.033 $\chi^2/\text{NDF}: 52944.9/32$

In: -8.102 ± 0.030 $\chi^2/\text{NDF}: 210422.5/38$

Out: -8.513 ± 0.030 $\chi^2/\text{NDF}: 264394.2/41$

All: -8.307 ± 0.021 $\chi^2/\text{NDF}: 474909.6/80$

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.407 $\pm$ 0.046 χ^2 /NDF: 3954.9/32

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF:7055.1/24

Right Out: 0.143 $\pm$ 0.044 χ^2 /NDF: 4387.7/35

Left In: 0.371 $\pm$ 0.031 χ^2 /NDF:6217.4/22

Left: 0.443 $\pm$ 0.023 χ^2 /NDF: 13283.4/47

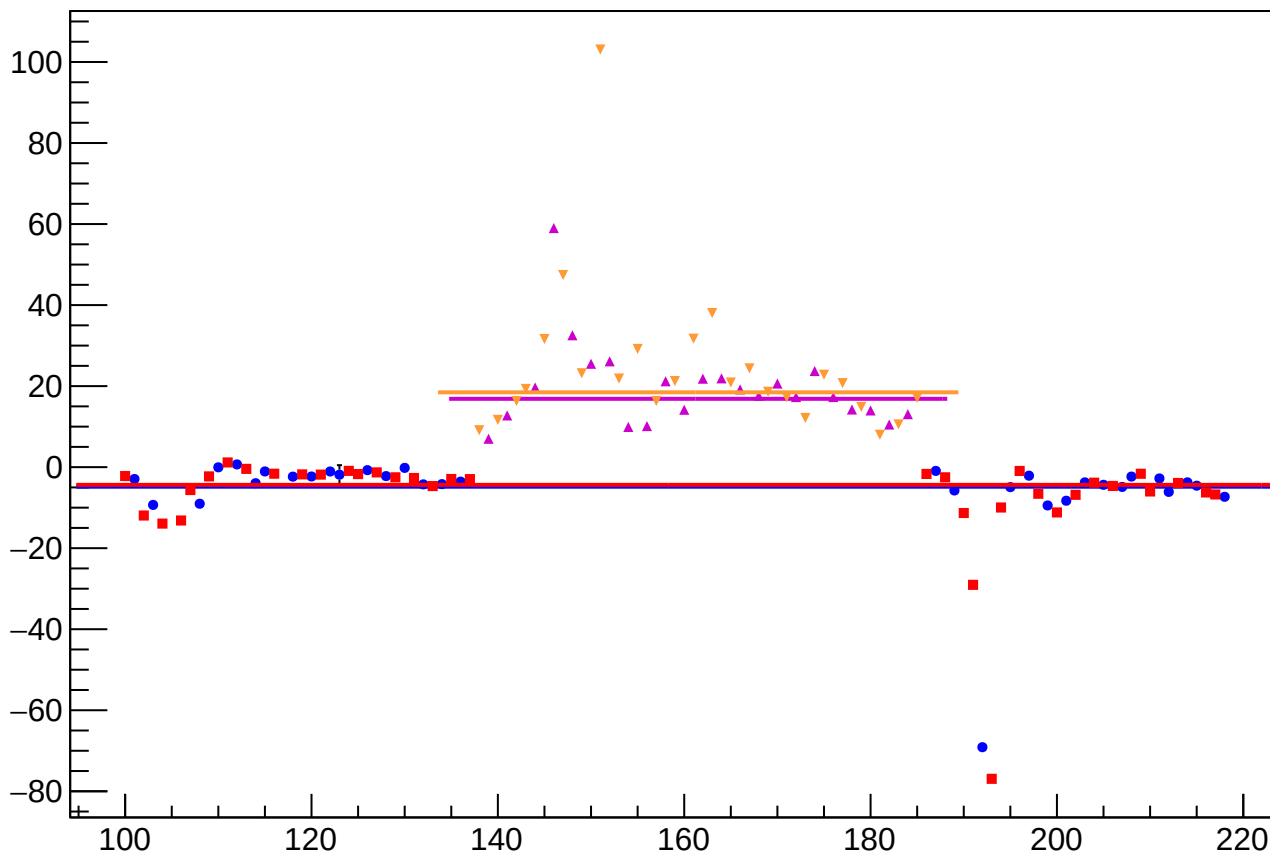
Right: 0.269 $\pm$ 0.032 χ^2 /NDF: 8359.6/68

In: 0.383 $\pm$ 0.026 χ^2 /NDF:10172.7/55

Out: 0.386 $\pm$ 0.026 χ^2 /NDF:11489.8/60

All: 0.384 $\pm$ 0.019 χ^2 /NDF: 21662.6/116

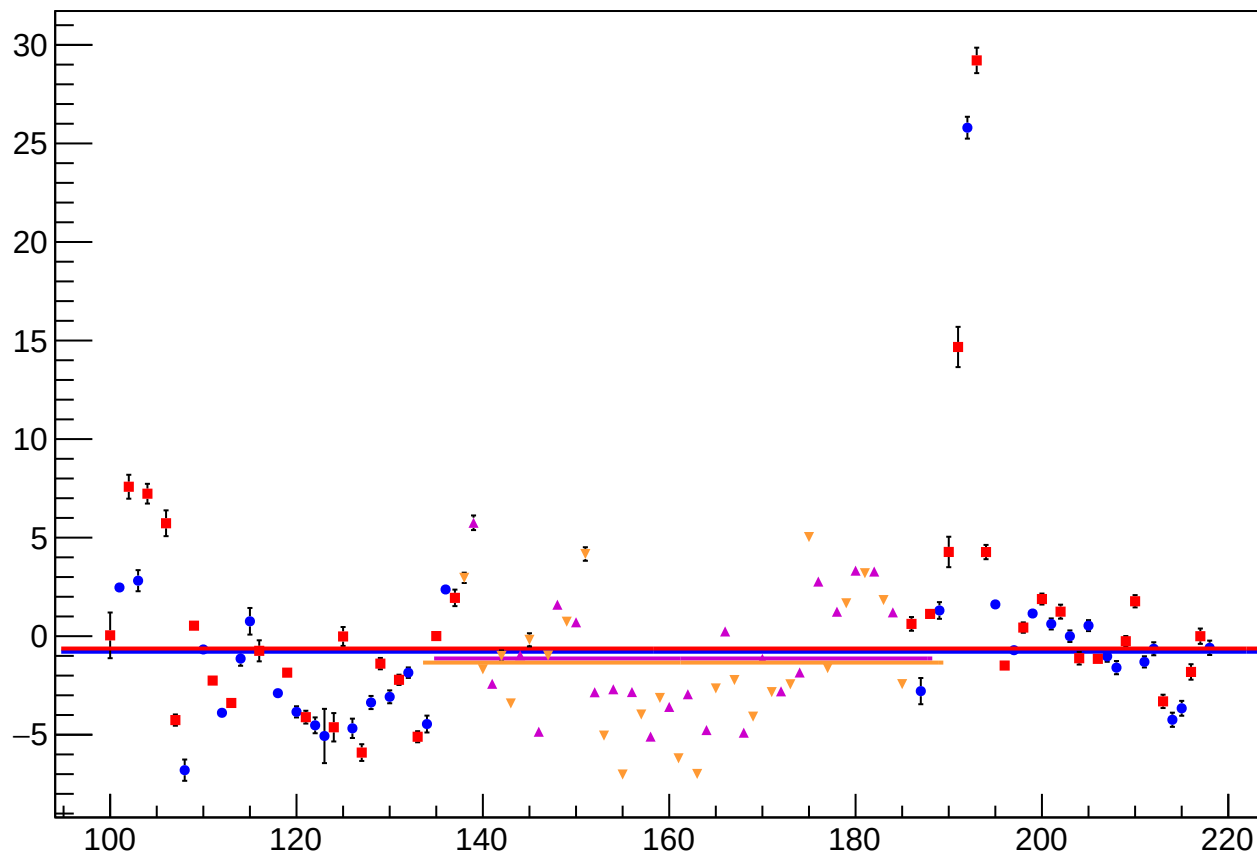
reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.823+/-0.042 χ^2/NDF : 27210.0/32
 Left Out: 18.467+/-0.040 χ^2/NDF : 77226.7/24
 Right Out: -4.369+/-0.040 χ^2/NDF : 28353.9/35
 Left In: 16.867+/-0.039 χ^2/NDF : 39779.0/22

Left: 17.640+/-0.028 χ^2/NDF : 117837.8/47
 Right: -4.582+/-0.029 χ^2/NDF : 55625.1/68
 In: 7.024+/-0.029 χ^2/NDF : 210529.8/55
 Out: 7.009+/-0.028 χ^2/NDF : 270059.8/60
 All: 7.016+/-0.020 χ^2/NDF : 480589.8/116

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.789 ± 0.053 $\chi^2/\text{NDF}: 4071.7/32$

Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$

Right Out: -0.627 ± 0.051 $\chi^2/\text{NDF}: 4604.0/35$

Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$

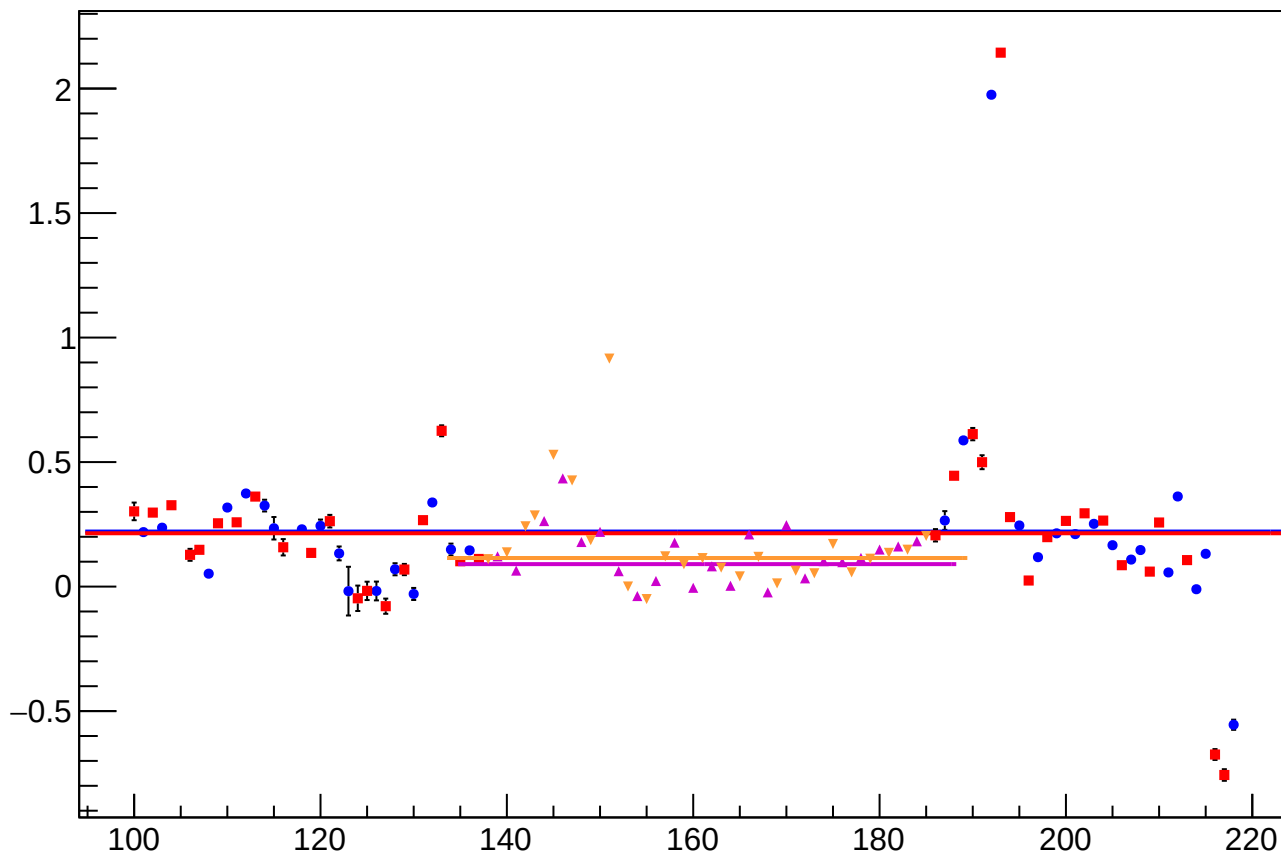
Right: -0.705 ± 0.037 $\chi^2/\text{NDF}: 8680.5/68$

In: -1.028 ± 0.029 $\chi^2/\text{NDF}: 10809.4/55$

Out: -1.097 ± 0.030 $\chi^2/\text{NDF}: 12640.9/60$

All: -1.062 ± 0.021 $\chi^2/\text{NDF}: 23453.0/116$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.221 $\pm$ 0.002 χ^2/NDF : 13198.3/32

Left Out: 0.115 $\pm$ 0.002 χ^2/NDF : 4431.9/24

Right Out: 0.214 $\pm$ 0.002 χ^2/NDF : 15623.2/35

Left In: 0.090 $\pm$ 0.002 χ^2/NDF : 3676.5/22

Left: 0.102 $\pm$ 0.001 χ^2/NDF : 8228.2/47

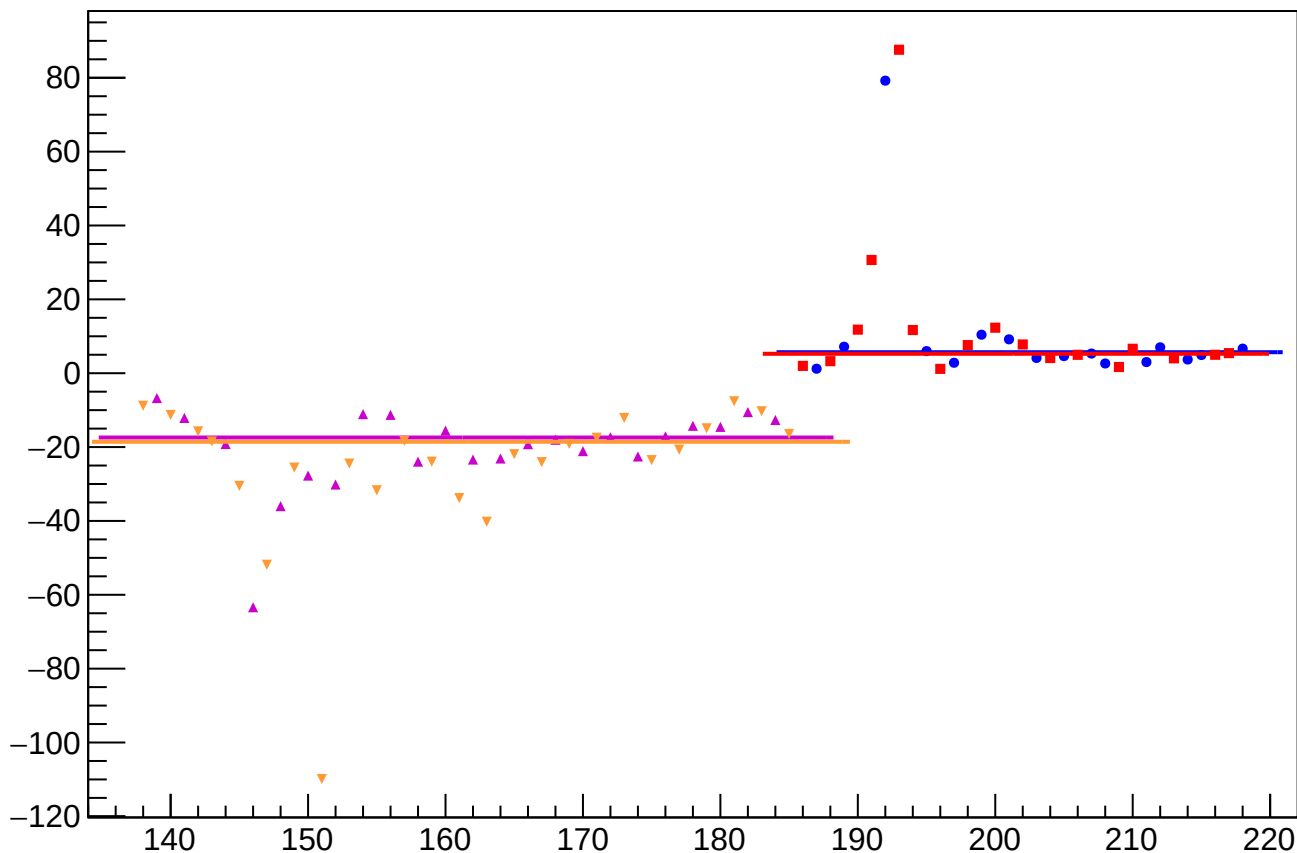
Right: 0.218 $\pm$ 0.002 χ^2/NDF : 28825.8/68

In: 0.129 $\pm$ 0.001 χ^2/NDF : 19034.0/55

Out: 0.148 $\pm$ 0.001 χ^2/NDF : 21284.7/60

All: 0.138 $\pm$ 0.001 χ^2/NDF : 40420.6/116

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.688 $\pm$ 0.048 χ^2 /NDF: 25728.1/15

Left Out: -18.566 $\pm$ 0.040 χ^2 /NDF:86389.6/24

Right Out: 5.261 $\pm$ 0.047 χ^2 /NDF: 26050.5/16

Left In: -17.414 $\pm$ 0.039 χ^2 /NDF:43504.1/22

Left: -17.979 $\pm$ 0.028 χ^2 /NDF: 130314.7/47

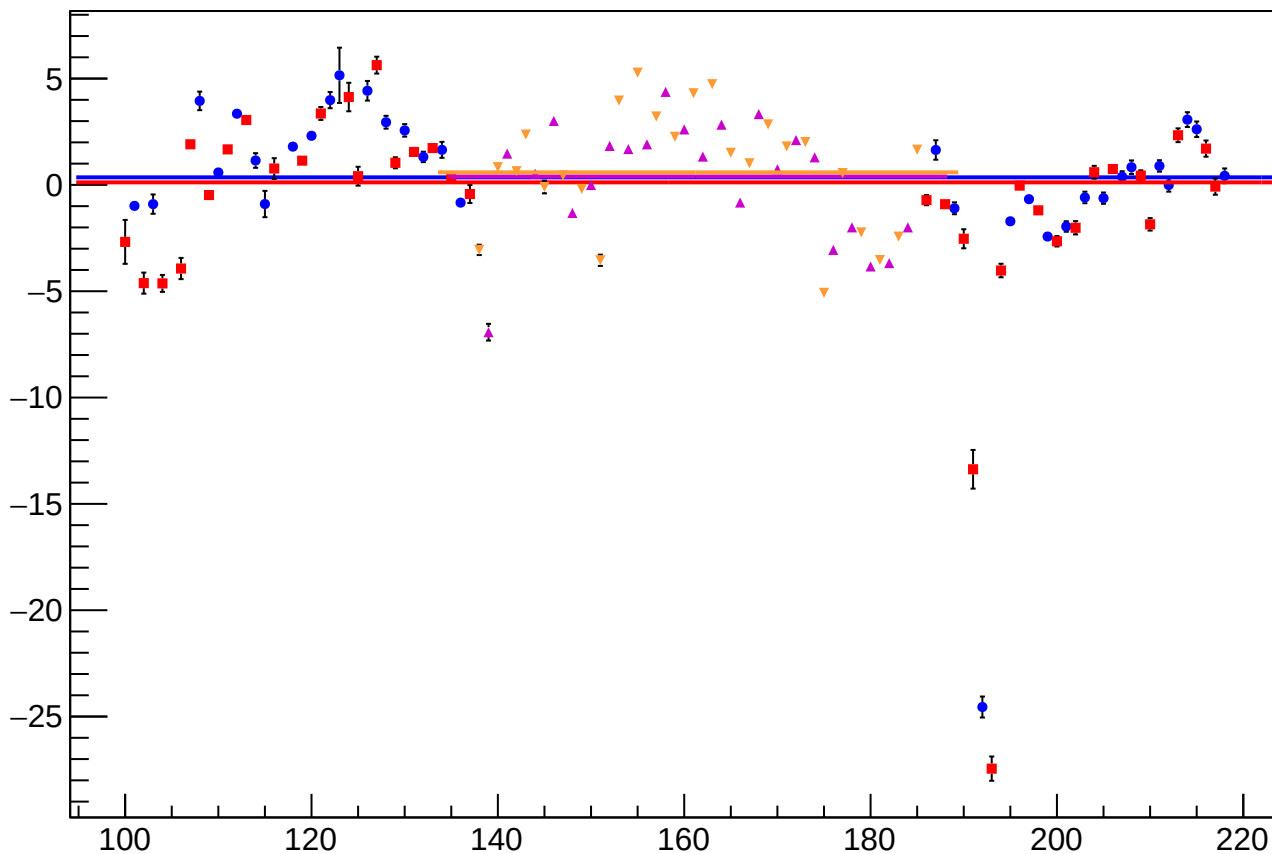
Right: 5.471 $\pm$ 0.034 χ^2 /NDF: 51818.9/32

In: -8.128 $\pm$ 0.030 χ^2 /NDF:208117.2/38

Out: -8.575 $\pm$ 0.031 χ^2 /NDF:260505.7/41

All: -8.350 $\pm$ 0.022 χ^2 /NDF: 468730.5/80

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.355 $\pm$ 0.047 χ^2 /NDF: 3969.6/32

Left Out: 0.591 $\pm$ 0.033 χ^2 /NDF:6796.5/24

Right Out: 0.119 $\pm$ 0.045 χ^2 /NDF: 4324.1/35

Left In: 0.394 $\pm$ 0.032 χ^2 /NDF:6059.8/22

Left: 0.488 $\pm$ 0.023 χ^2 /NDF: 12874.6/47

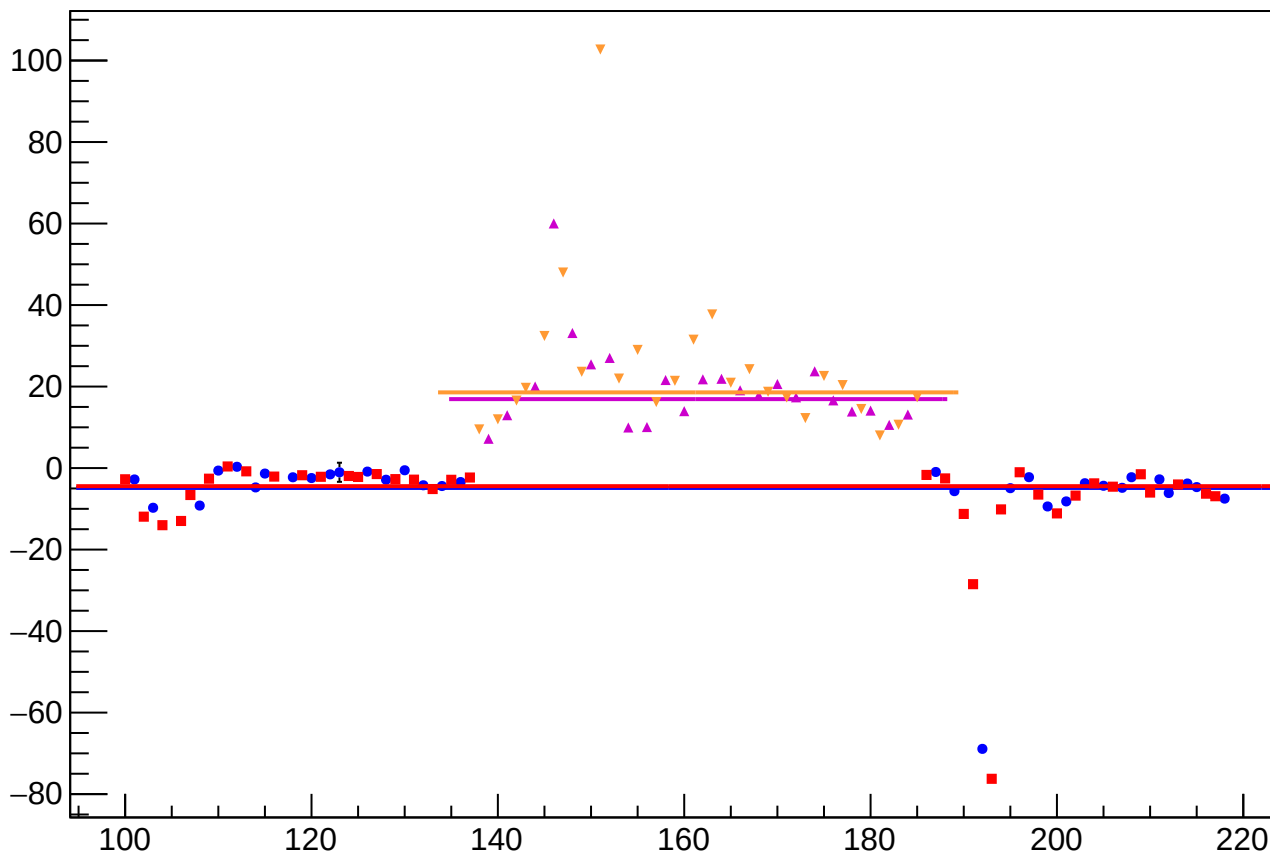
Right: 0.232 $\pm$ 0.032 χ^2 /NDF: 8307.0/68

In: 0.382 $\pm$ 0.026 χ^2 /NDF:10029.9/55

Out: 0.423 $\pm$ 0.027 χ^2 /NDF:11192.1/60

All: 0.402 $\pm$ 0.019 χ^2 /NDF: 21223.2/116

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.871 ± 0.043 $\chi^2/\text{NDF}: 26557.5/32$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -4.441 ± 0.040 $\chi^2/\text{NDF}: 27496.2/35$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

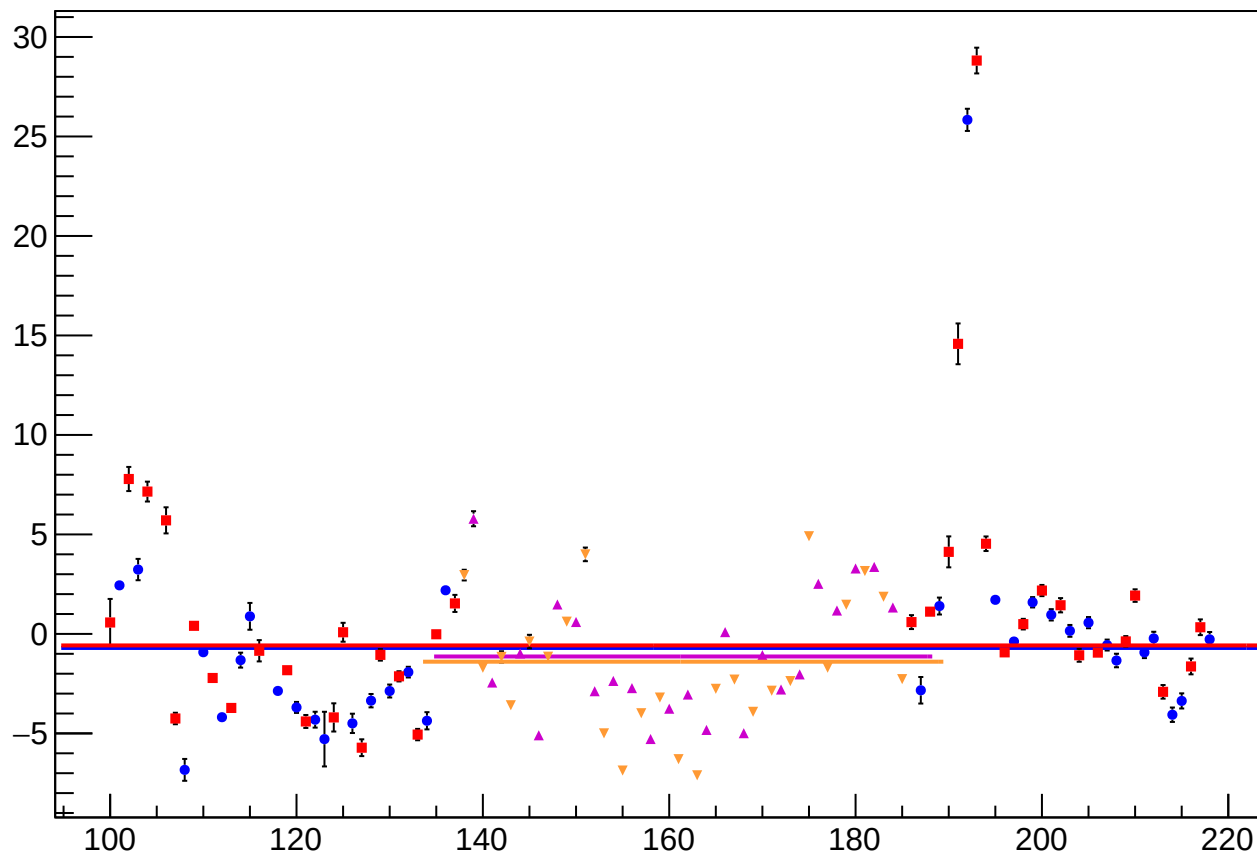
Right: -4.643 ± 0.029 $\chi^2/\text{NDF}: 54107.3/68$

In: 7.065 ± 0.029 $\chi^2/\text{NDF}: 208546.4/55$

Out: 7.080 ± 0.028 $\chi^2/\text{NDF}: 266708.5/60$

All: 7.073 ± 0.020 $\chi^2/\text{NDF}: 475255.0/116$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.705 ± 0.054 $\chi^2/\text{NDF}: 4047.4/32$

Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$

Right Out: -0.579 ± 0.052 $\chi^2/\text{NDF}: 4530.0/35$

Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$

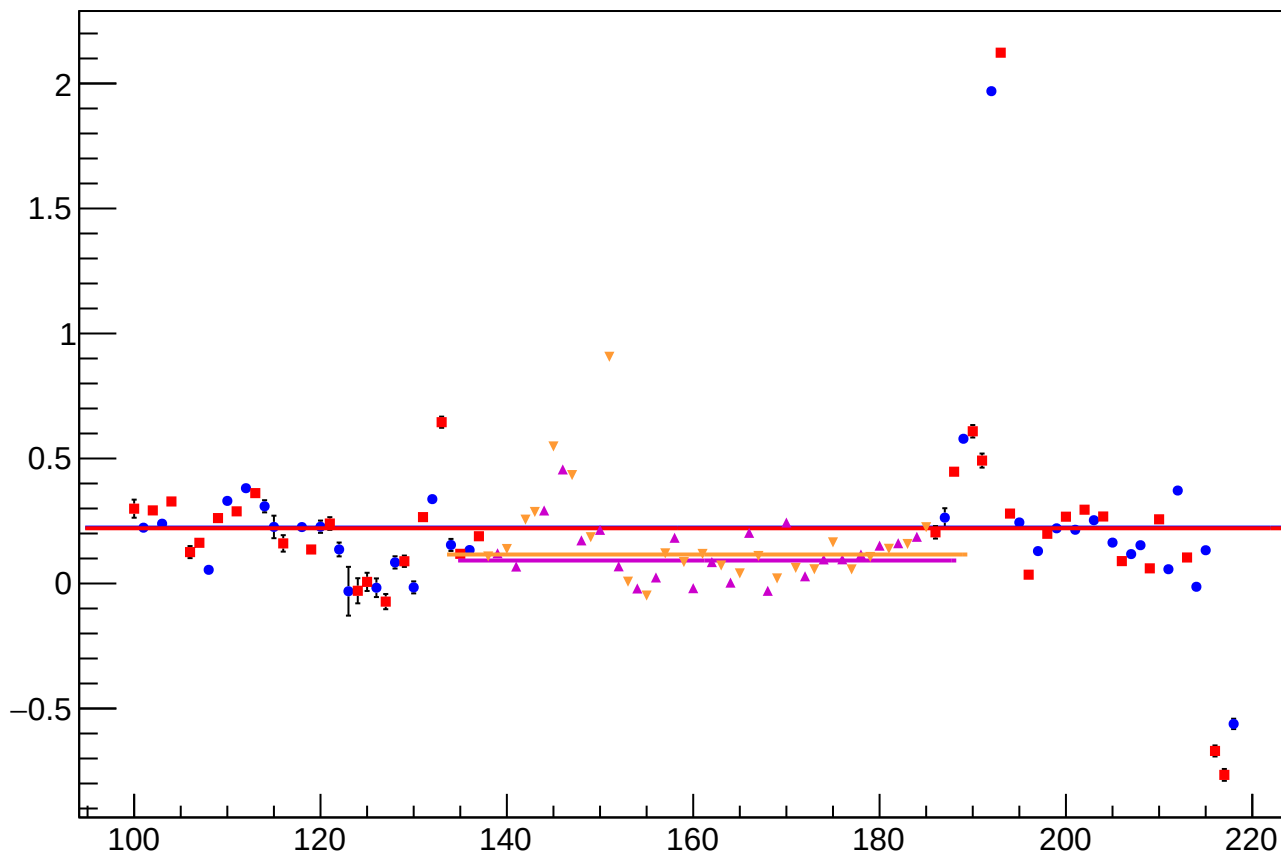
Right: -0.640 ± 0.037 $\chi^2/\text{NDF}: 8580.3/68$

In: -1.005 ± 0.029 $\chi^2/\text{NDF}: 10690.0/55$

Out: -1.120 ± 0.030 $\chi^2/\text{NDF}: 12347.4/60$

All: -1.061 ± 0.021 $\chi^2/\text{NDF}: 23044.9/116$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.224 ± 0.002 χ^2/NDF : 12939.5/32

Left Out: 0.116 ± 0.002 χ^2/NDF : 4463.0/24

Right Out: 0.221 ± 0.002 χ^2/NDF : 15095.1/35

Left In: 0.092 ± 0.002 χ^2/NDF : 3631.4/22

Left: 0.103 ± 0.001 χ^2/NDF : 8207.3/47

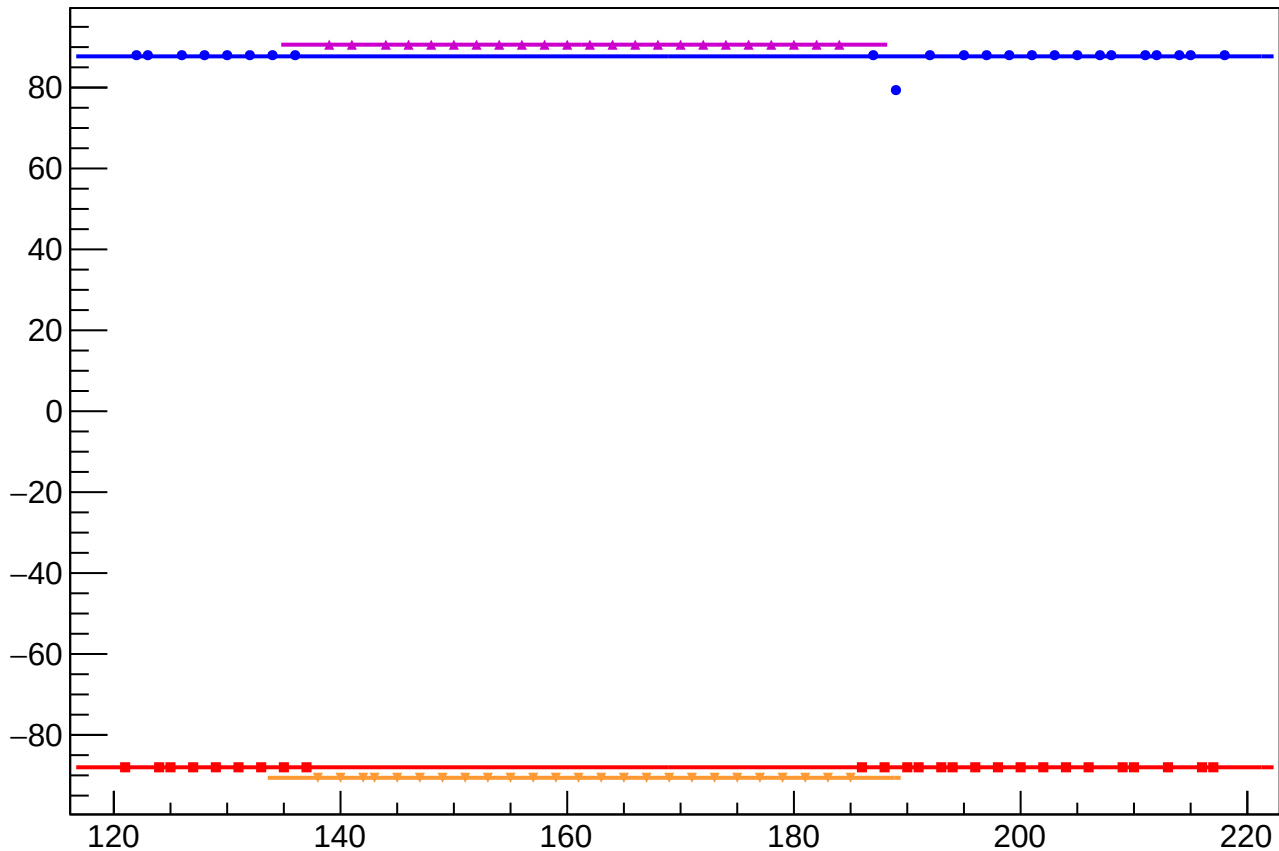
Right: 0.222 ± 0.002 χ^2/NDF : 28035.3/68

In: 0.131 ± 0.001 χ^2/NDF : 18711.6/55

Out: 0.151 ± 0.001 χ^2/NDF : 20891.7/60

All: 0.140 ± 0.001 χ^2/NDF : 39712.6/116

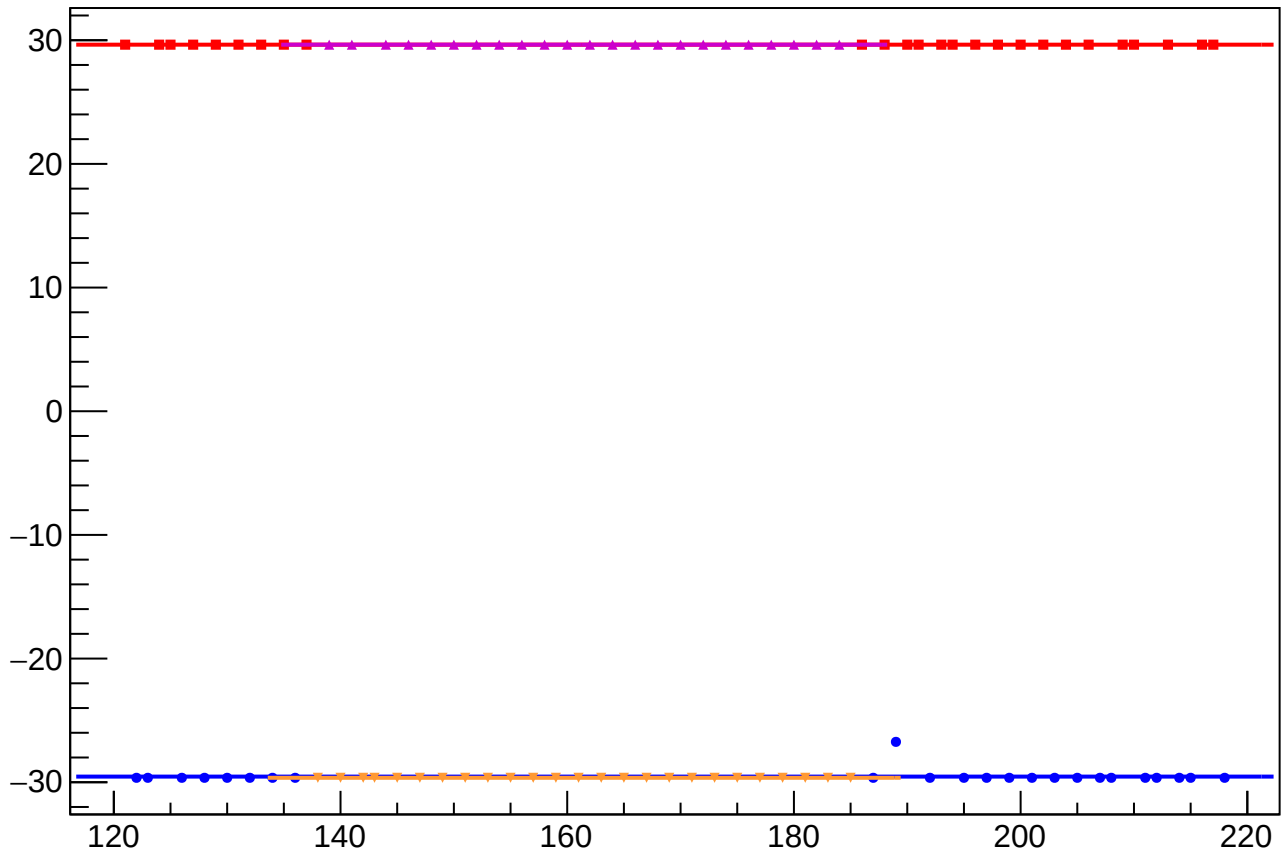
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.712 ± 0.000 χ^2/NDF : 3669102942616927009374861573226496.0/23
 Left Out: -90.599 ± 0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001 ± 0.000 χ^2/NDF : 1353862.0/25
 Left In: 90.599 ± 0.000 χ^2/NDF : 5932436.0/22

Left: -2.410 ± 0.000 χ^2/NDF : 30521213250005045
 Right: -0.029 ± 0.000 χ^2/NDF : 2349946505403170
 In: 89.280 ± 0.000 χ^2/NDF : 105682340691991880
 Out: -89.448 ± 0.000 χ^2/NDF : 5715570872066604
 All: -1.339 ± 0.000 χ^2/NDF : 5403017465902

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.543+/-0.000

χ^2/NDF : 416259938374711473294676745781248.0/23

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

Right: 0.010+/-0.000 χ^2/NDF : 26660156523854464

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

In: 2.595+/-0.000 χ^2/NDF : 2899218264426791904

Right Out: 29.641+/-0.000

χ^2/NDF : 1555532.7/25

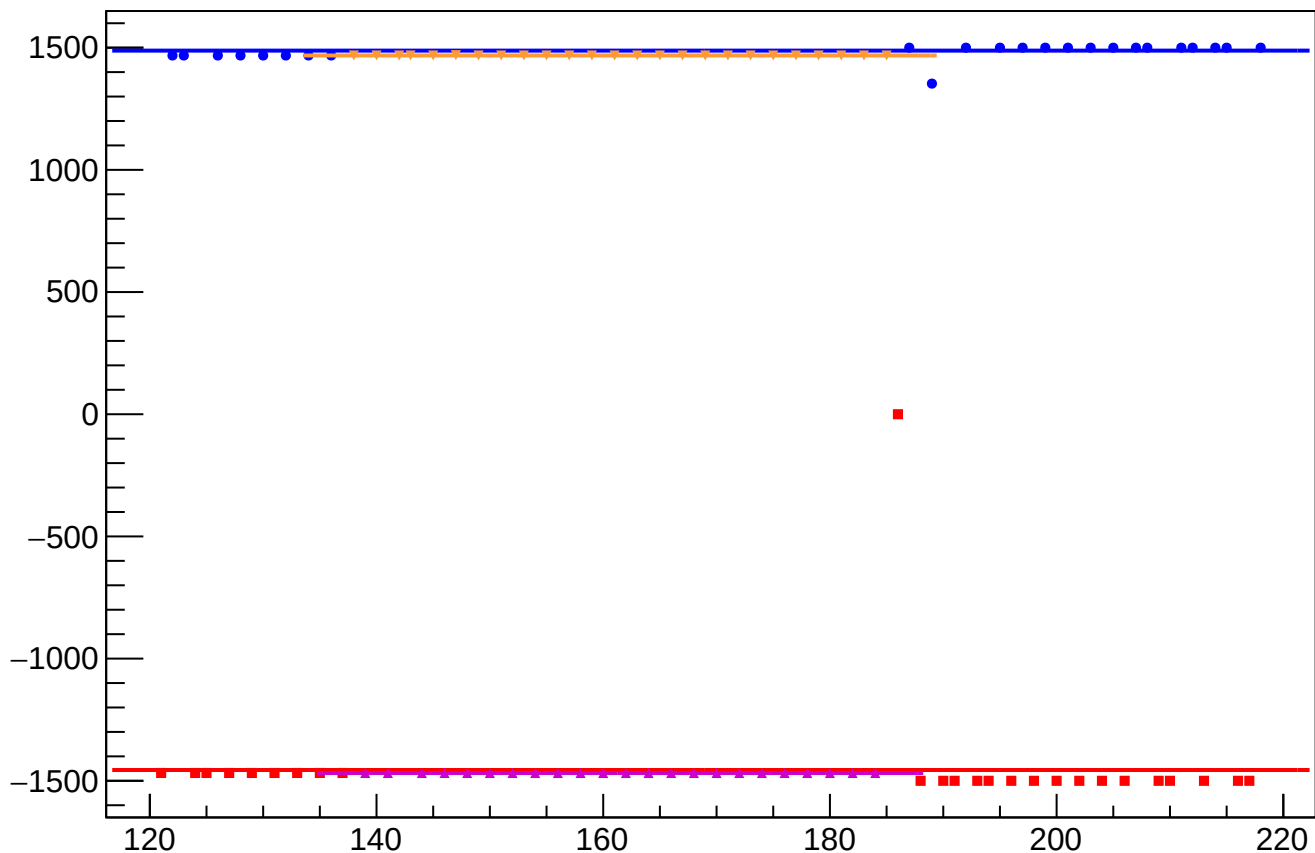
Out: -3.370+/-0.000 χ^2/NDF : 29745401109740982

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

All: -0.429+/-0.000 χ^2/NDF : 5933932407861

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1487.957+/-0.000

χ^2/NDF : 1229479811525084622300428342472474624.0/23

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1455.823+/-0.000

χ^2/NDF : 82857477992421764973188316416090046464.0/25

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

Left: 39.085+/-0.000 χ^2/NDF : 80133946076775322.0/23

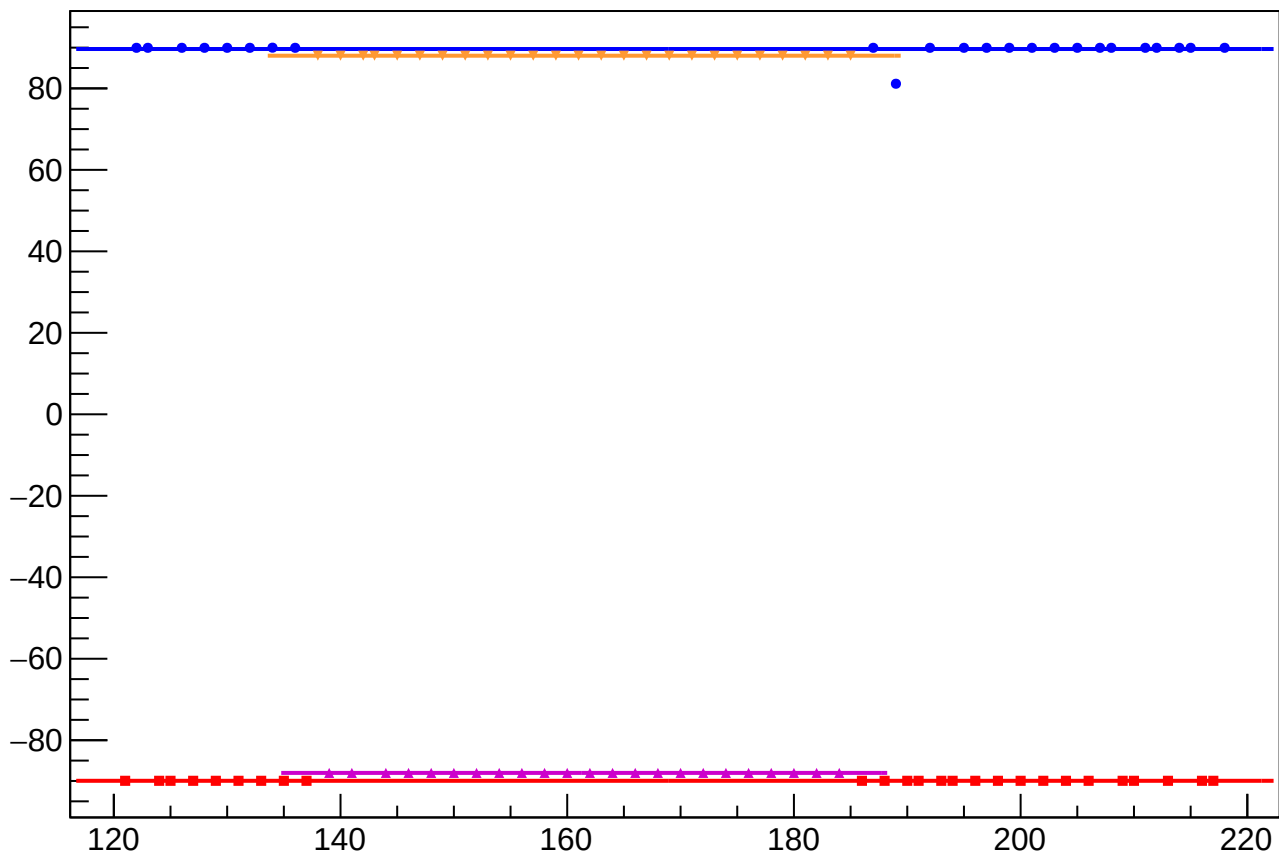
Right: 18.001+/-0.000 χ^2/NDF : 6678778374661729.0/23

In: -117.209+/-0.000 χ^2/NDF : 7232288561191511.0/23

Out: 172.338+/-0.000 χ^2/NDF : 7318866620290099.0/23

All: 29.598+/-0.000 χ^2/NDF : 1469291724533.0/23

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.665+/-0.000

χ^2/NDF : 3834676034784134828435102259740672.0/23

Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978

Right: -0.029+/-0.000 χ^2/NDF : 2455726550773863

Left Out: 88.021+/-0.000

χ^2/NDF : 5326388.8/24

Right Out: -89.959+/-0.000

χ^2/NDF : 4351583.9/25

In: -6.824+/-0.000

χ^2/NDF : 261321040036057406

Out: 9.149+/-0.000

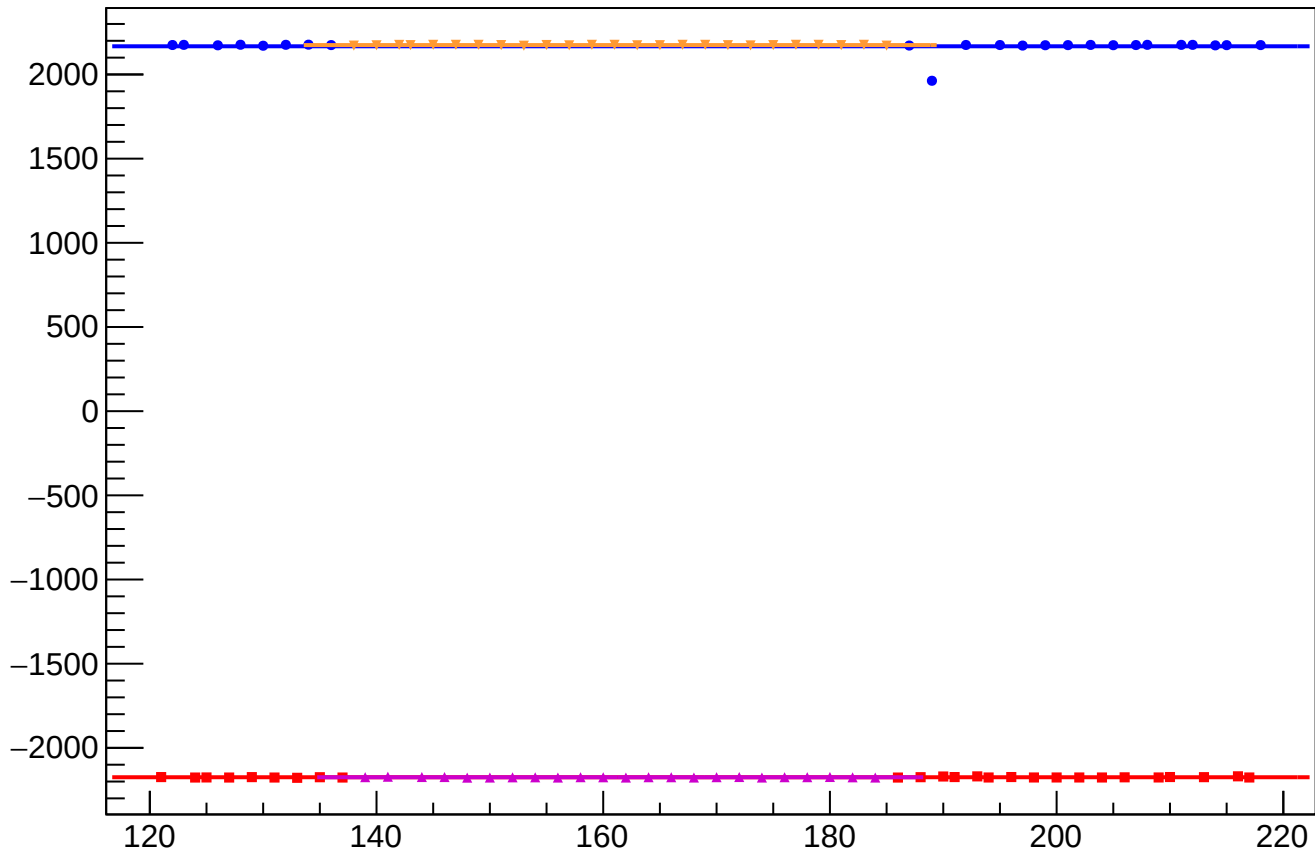
χ^2/NDF : 268117548621807100

Left In: -88.021+/-0.000

χ^2/NDF : 6084099.2/22

All: 1.275+/-0.000 χ^2/NDF : 53375256267083

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2167.395+/-0.000

χ^2/NDF : 2215640241400770666077011645281861632.0/23

Left Out: 2174.622+/-0.000

χ^2/NDF : 5110578135476093110874911595823104.0/24

Right Out: -2174.468+/-0.000

χ^2/NDF : 7140607235112282200673629511876608.0/25

Left In: -2174.539+/-0.000

χ^2/NDF : 3400742562425168967494665391570944.0/22

Left: 57.898+/-0.000 χ^2/NDF : 1758341875465085

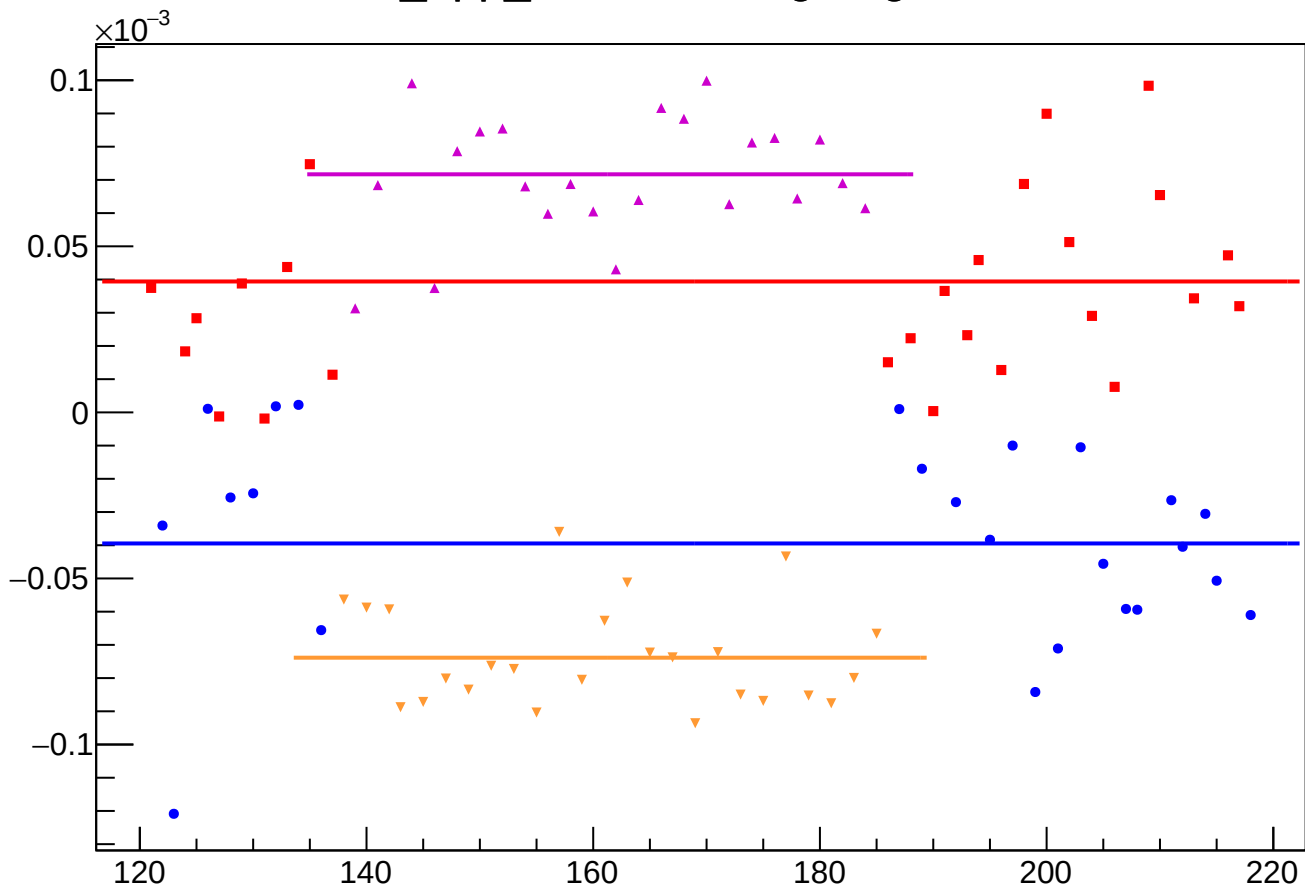
Right: -0.684+/-0.000 χ^2/NDF : 1434840254908681

In: -190.399+/-0.000 χ^2/NDF : 1560399723924621

Out: 247.328+/-0.000 χ^2/NDF : 1600958202635412

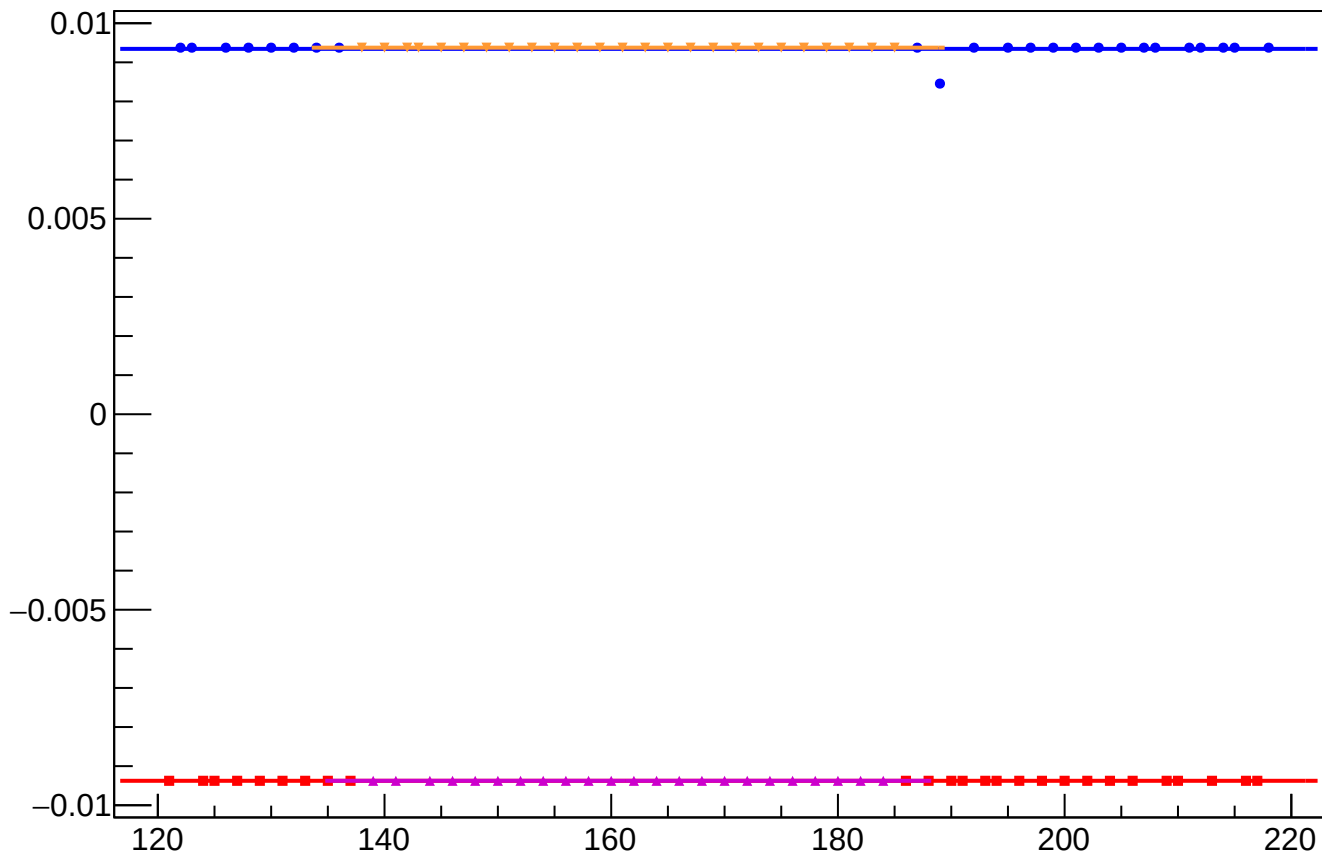
All: 31.538+/-0.000 χ^2/NDF : 3193756719399

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 869106677147903952158720.0/23
 Left Out: -0.000+/-0.000 χ^2 /NDF: 450400934180541069000704.0/24
 Right Out: 0.000+/-0.000 χ^2 /NDF: 1126860582415084917096448.0/25
 Left In: 0.000+/-0.000 χ^2 /NDF: 562166279020739416817664.0/22
 All: -0.000+/-0.000 χ^2 /NDF: 2744803251177

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41641864361393116124545024.0/23

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/25

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2667032110163068

In: -0.001+/-0.000

χ^2/NDF : 290032363413880477

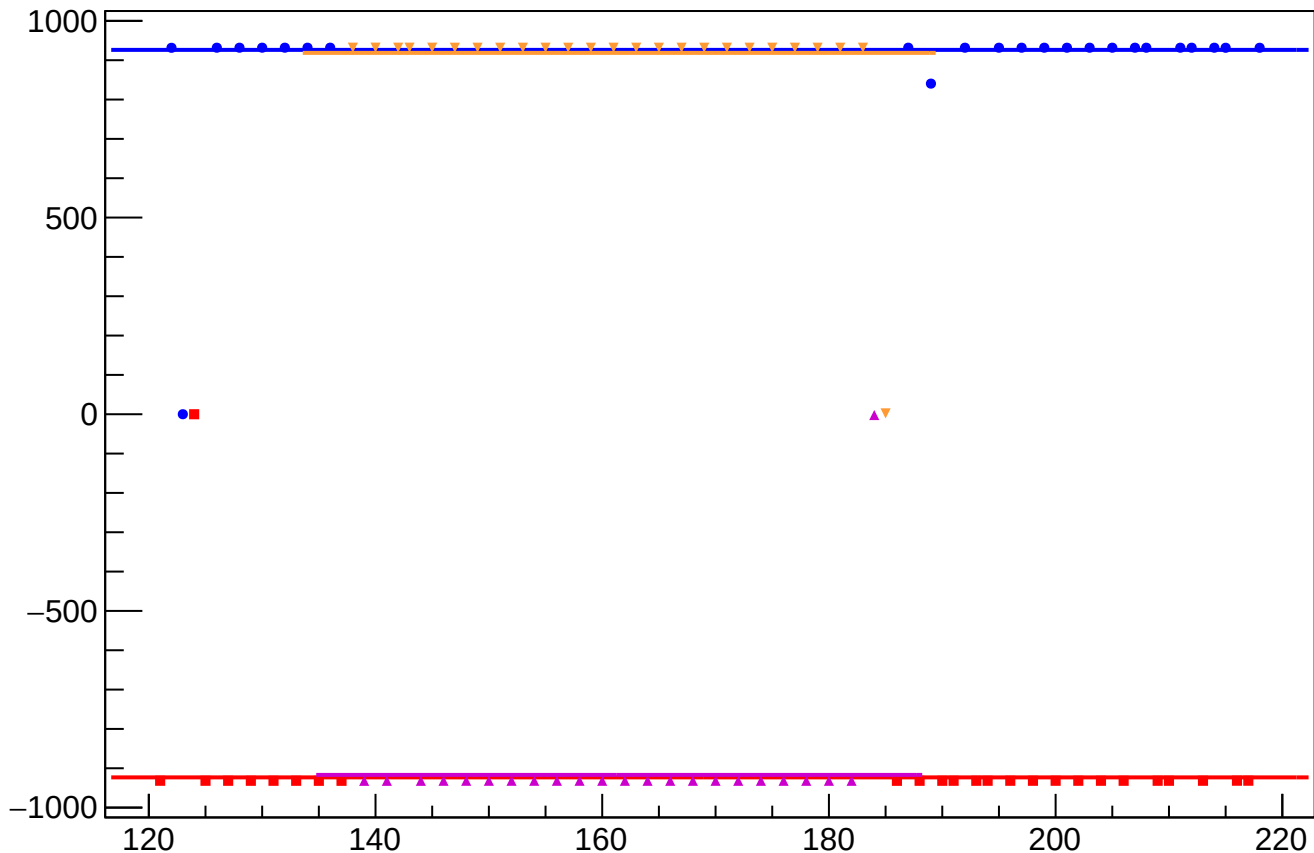
Out: 0.001+/-0.000

χ^2/NDF : 297567419825072201

All: 0.000+/-0.000

χ^2/NDF : 59361948070871

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 926.267+/-0.000

χ^2/NDF : 3851330283291702233035832041081405440.0/23

Left: 25.295+/-0.000 χ^2/NDF : 31796385721824018

Right: 2.751+/-0.000 χ^2/NDF : 26189029813091508

Left Out: 918.645+/-0.000

χ^2/NDF : 23003498704056084939752432521336324096.0/24

In: -74.619+/-0.000 χ^2/NDF : 28399819674750976

Right Out: -923.197+/-0.000

χ^2/NDF : 12042189843700954692169415321901334528.0/25

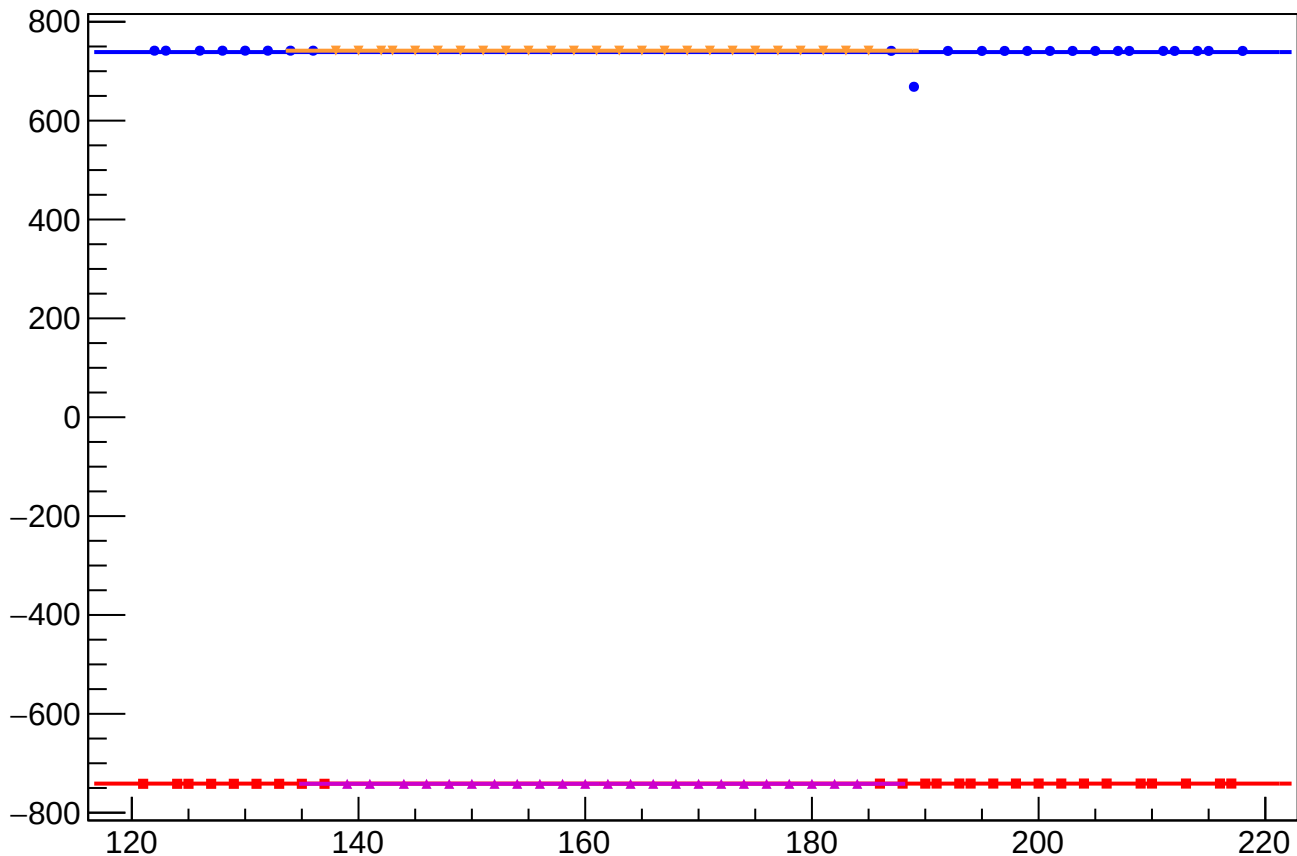
Out: 102.435+/-0.000 χ^2/NDF : 2906403248652499

Left In: -916.890+/-0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

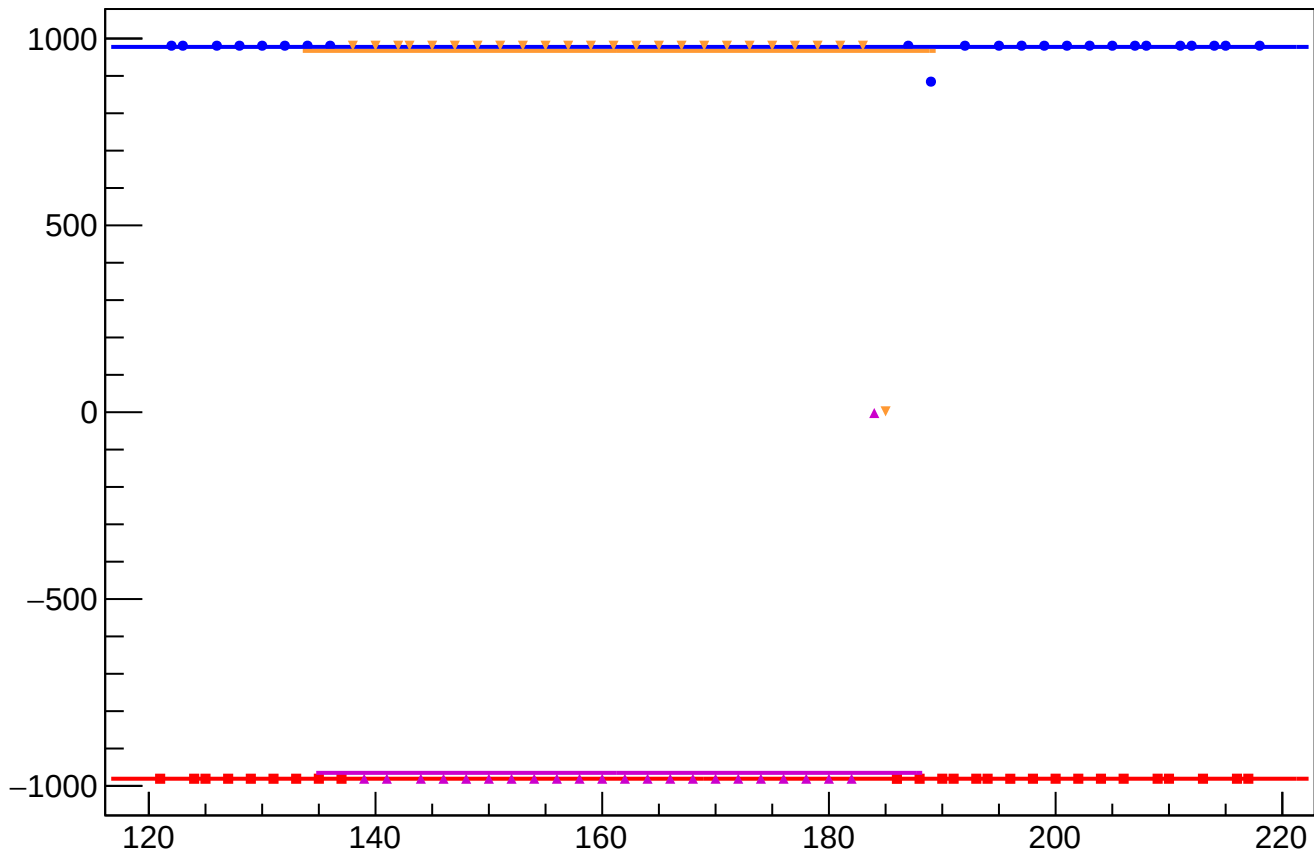
All: 15.151+/-0.000 χ^2/NDF : 5799392553876

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 738.712+/-0.000 χ^2/NDF : 260178321843173425327284063169413120.0/23
 Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24
 Right Out: -741.146+/-0.000 χ^2/NDF : 61316250724185328033262171324416.0/25
 Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22
 All: 10.741+/-0.000 χ^2/NDF : 3712008062167

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.590 +/- 0.000

χ^2/NDF : 455881646625906518826364840290811904.0/23

Left Out: 966.936 +/- 0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.816 +/- 0.000

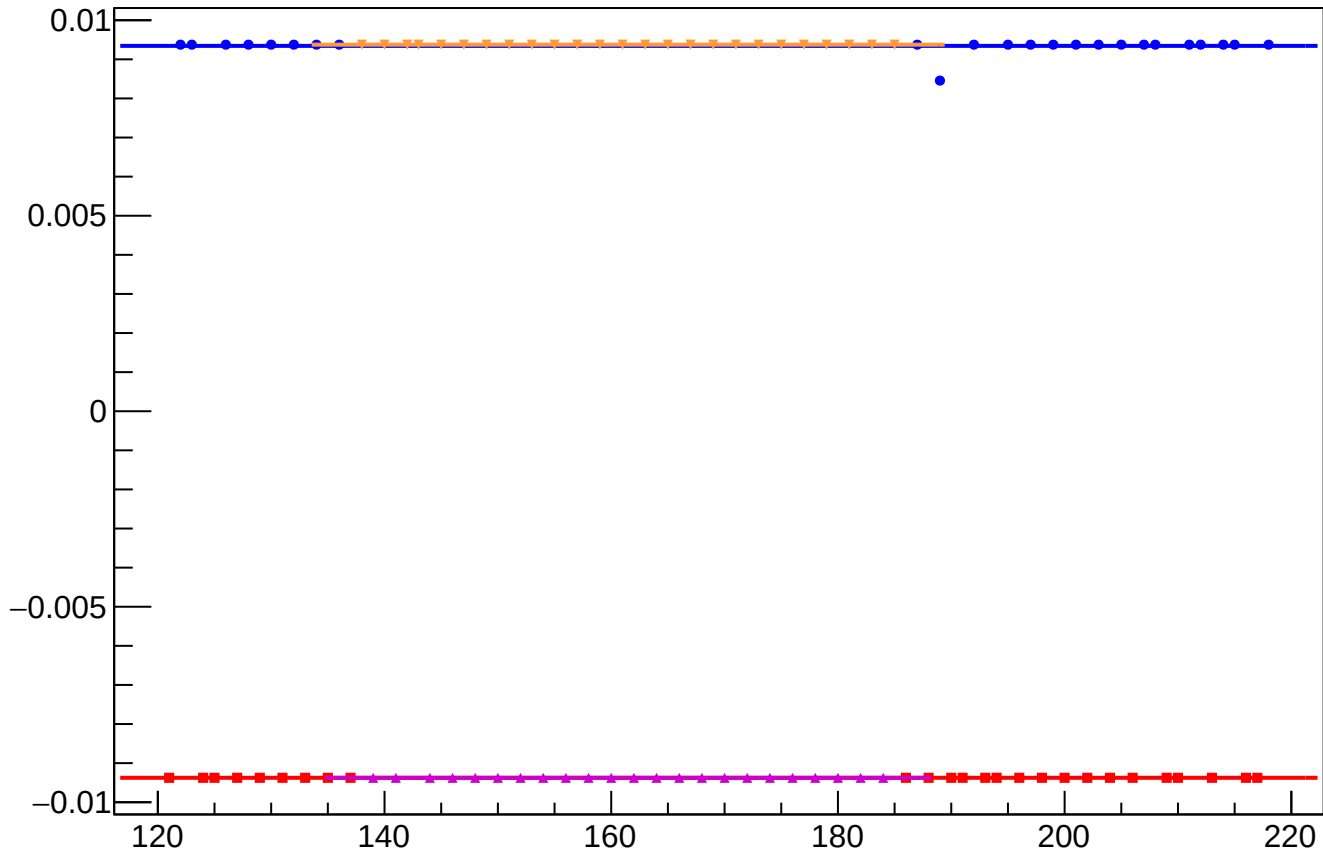
χ^2/NDF : 3536932016905664254714354597888.0/25

Left In: -965.102 +/- 0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 14.494 +/- 0.000 χ^2/NDF : 6443138841915

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41641864361393116124545024.0/23

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/25

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2667032110163068

In: -0.001+/-0.000

χ^2/NDF : 290032363413880477

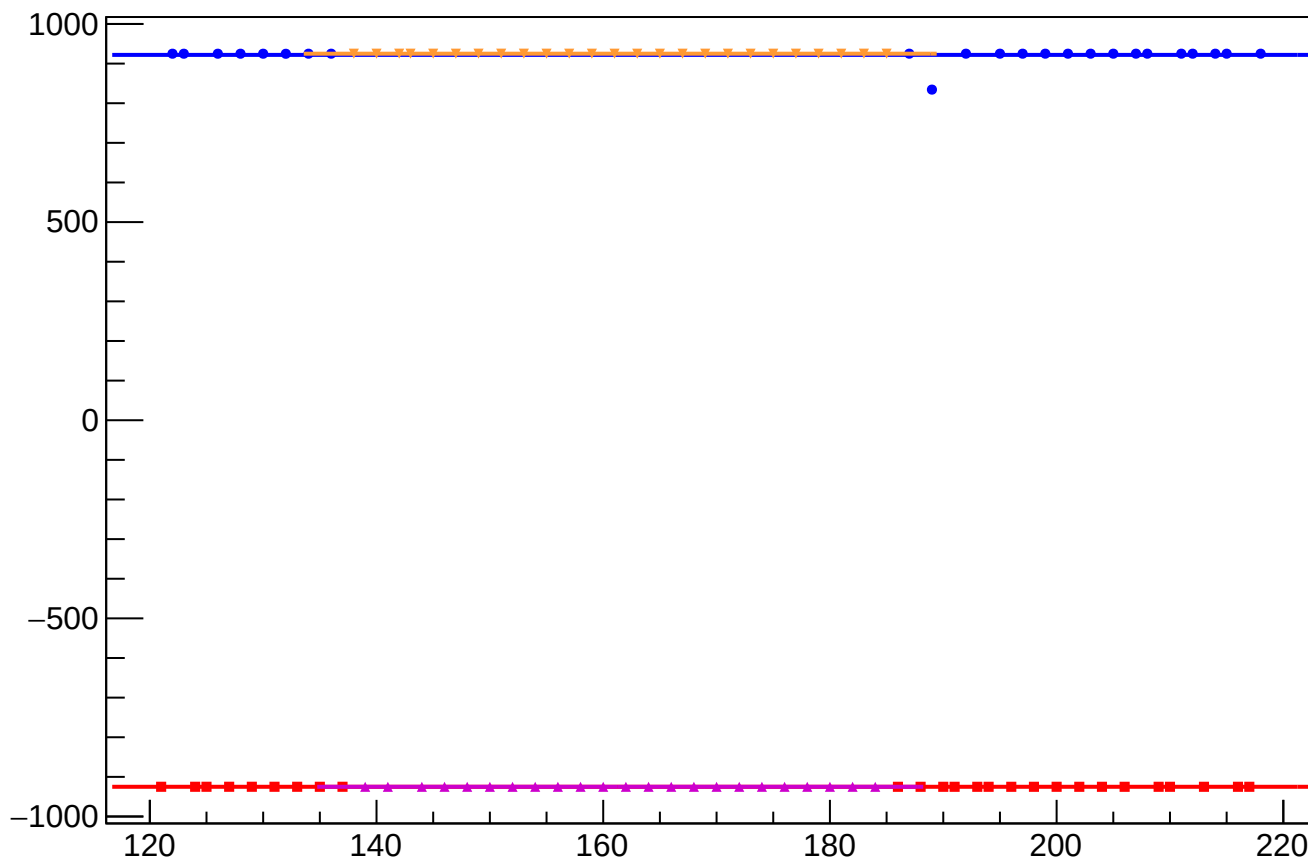
Out: 0.001+/-0.000

χ^2/NDF : 297567419825072201

All: 0.000+/-0.000

χ^2/NDF : 59361948070871

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 921.961+/-0.000

χ^2/NDF : 405098833259804168923136303290122240.0/23

Left Out: 924.983+/-0.000

χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -924.999+/-0.000

χ^2/NDF : 892030564653199222428724625408.0/25

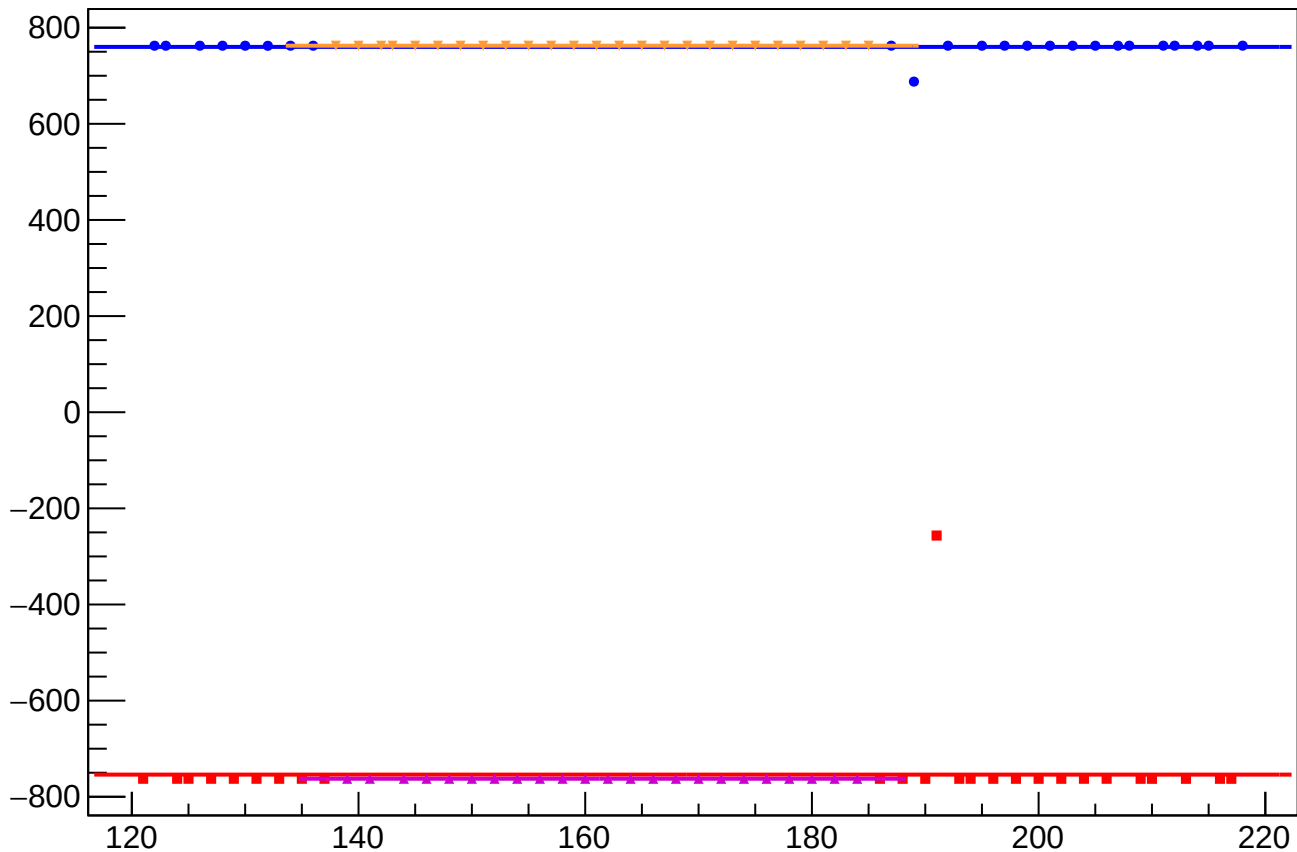
Left In: -924.983+/-0.000

χ^2/NDF : 888539224321534960792212865024.0/22

All: 13.399+/-0.000

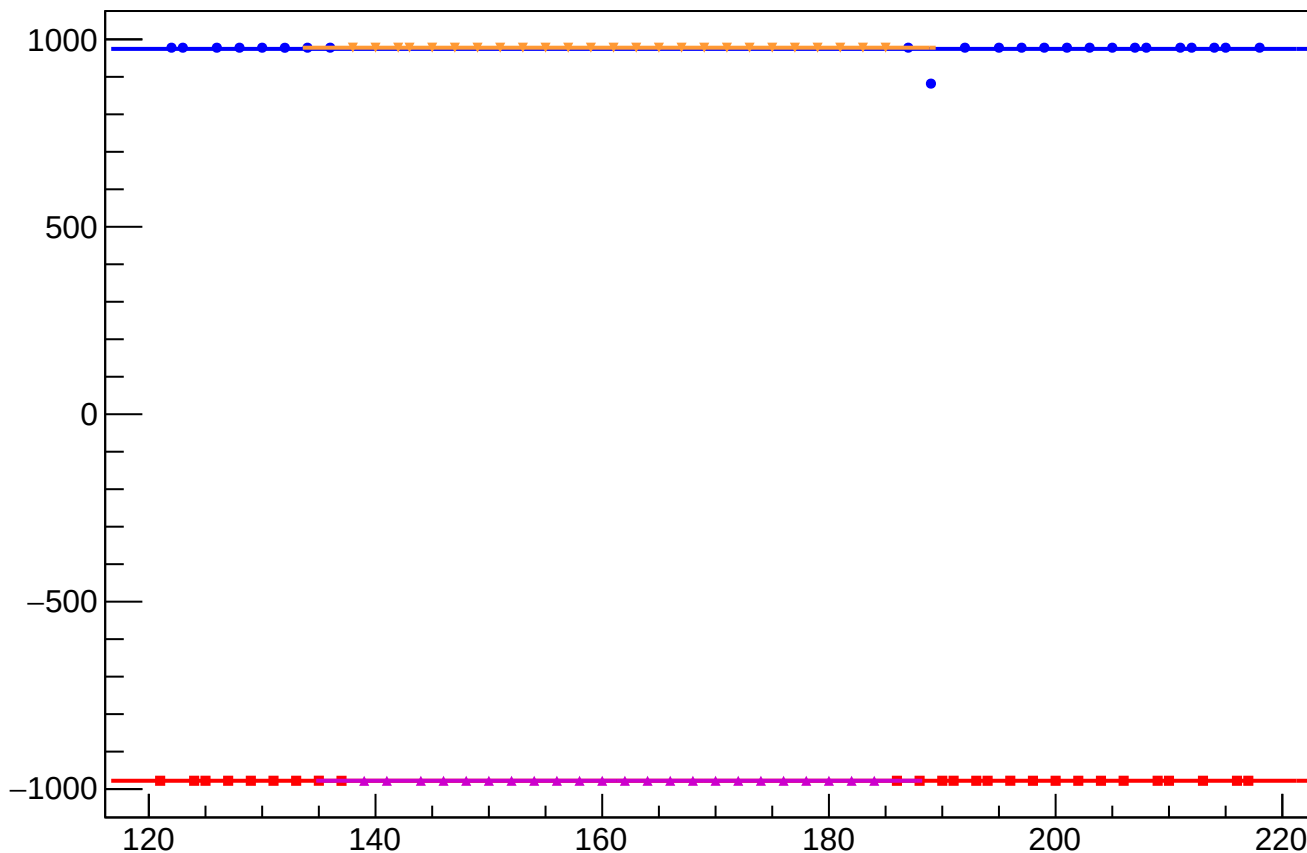
χ^2/NDF : 5778817334041

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



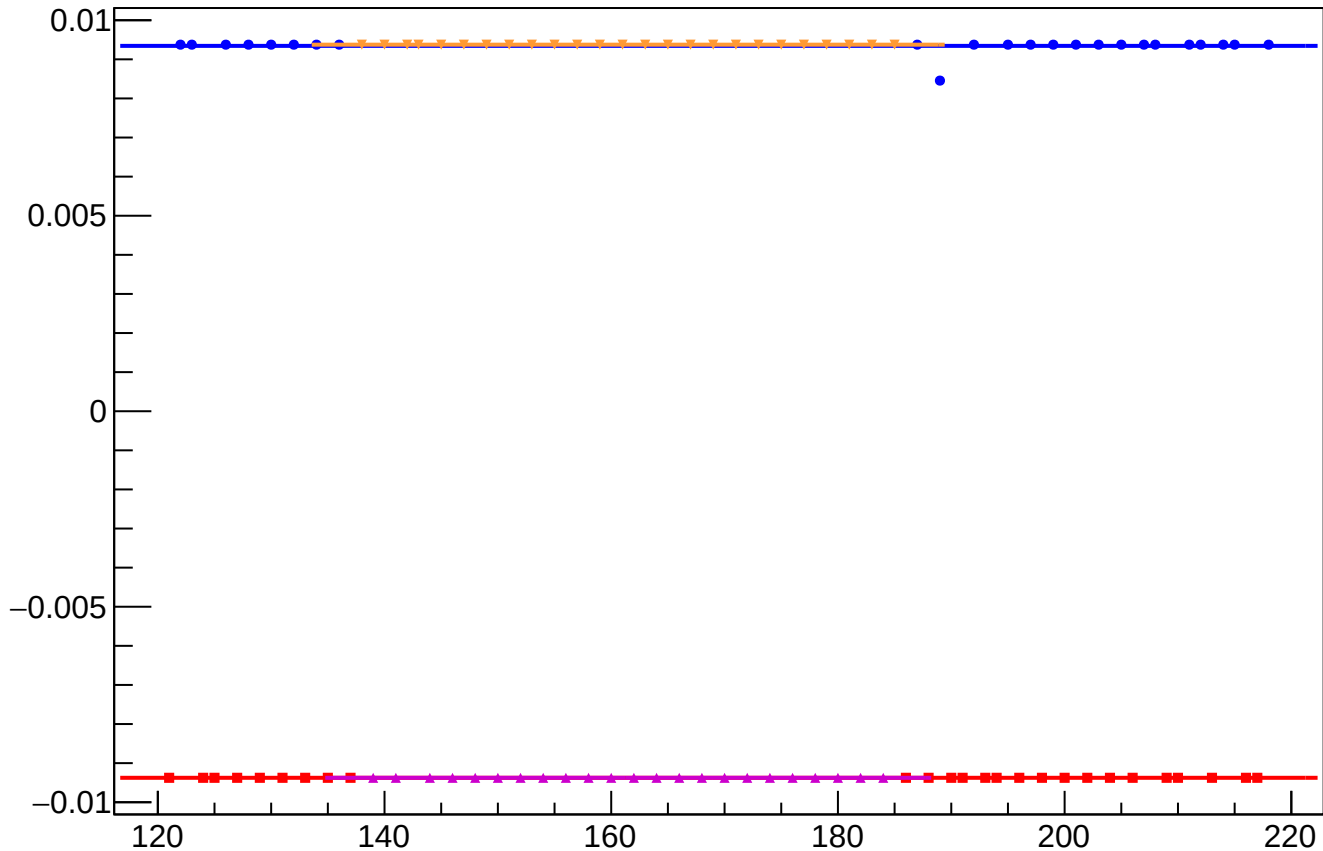
Right In: 760.031+/-0.000	χ^2/NDF : 275213314399571259631382656666566656.0/23	Left: 20.287+/-0.000	χ^2/NDF : 21619874128230354
Left Out: 762.518+/-0.000	χ^2/NDF : 731741258759628909874415403008.0/24	Right: 4.067+/-0.000	χ^2/NDF : 17509863472273284
Right Out: -753.886+/-0.000	χ^2/NDF : 6542817733298857419721912305758240768.0/25	In: -66.757+/-0.000	χ^2/NDF : 19187274081058918
Left In: -762.519+/-0.000	χ^2/NDF : 629058355419214408155297480704.0/22	Out: 90.526+/-0.000	χ^2/NDF : 19528572787171405
		All: 12.989+/-0.000	χ^2/NDF : 3913414238221

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 974.553+/-0.000	χ^2/NDF : 452782586601889418243500065788264448.0/23	Left: 26.015+/-0.000	χ^2/NDF : 35546397150663117
Left Out: 977.738+/-0.000	χ^2/NDF : 1154150409979077132991401558016.0/24	Right: -0.319+/-0.000	χ^2/NDF : 2901011574796781
Right Out: -977.757+/-0.000	χ^2/NDF : 1857715681045389290401649655808.0/25	In: -85.595+/-0.000	χ^2/NDF : 31546974830059520
Left In: -977.735+/-0.000	χ^2/NDF : 976503887937607318263199432704.0/22	Out: 111.163+/-0.000	χ^2/NDF : 3236653608969257
		All: 14.165+/-0.000	χ^2/NDF : 6456812400814

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41641864361393116124545024.0/23

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/25

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2667032110163068

In: -0.001+/-0.000

χ^2/NDF : 290032363413880477

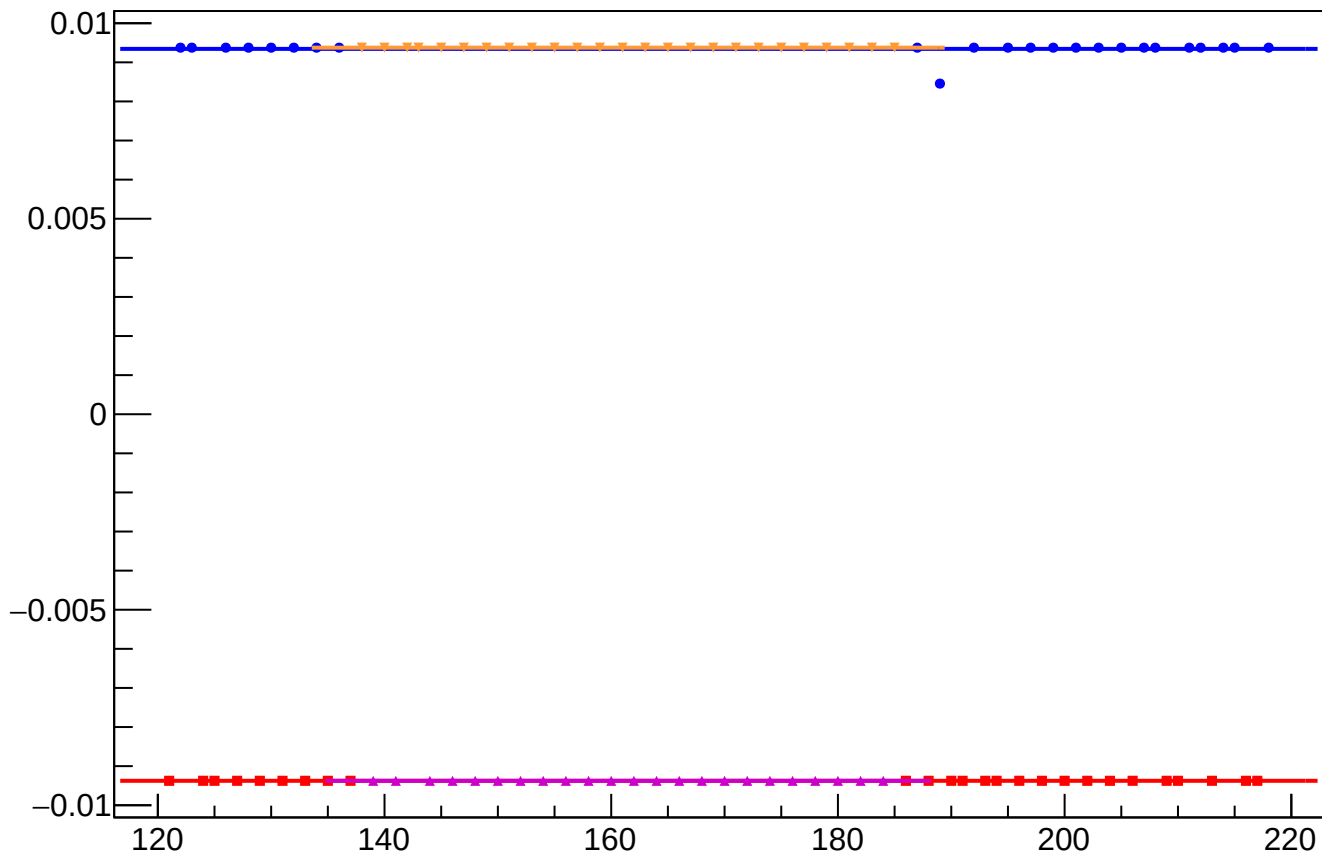
Out: 0.001+/-0.000

χ^2/NDF : 297567419825072201

All: 0.000+/-0.000

χ^2/NDF : 59361948070871

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41641864361393116124545024.0/23

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/25

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2667032110163068

In: -0.001+/-0.000

χ^2/NDF : 290032363413880477

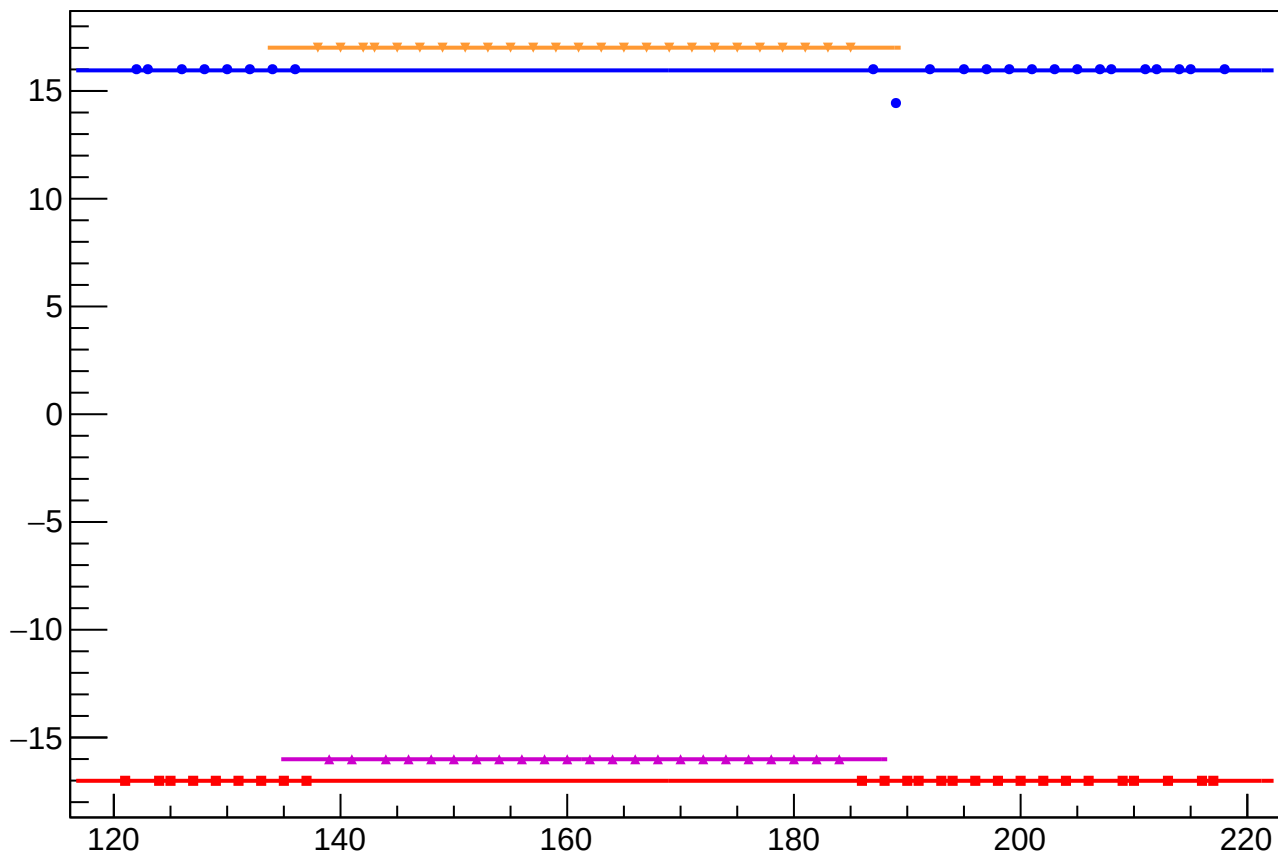
Out: 0.001+/-0.000

χ^2/NDF : 297567419825072201

All: 0.000+/-0.000

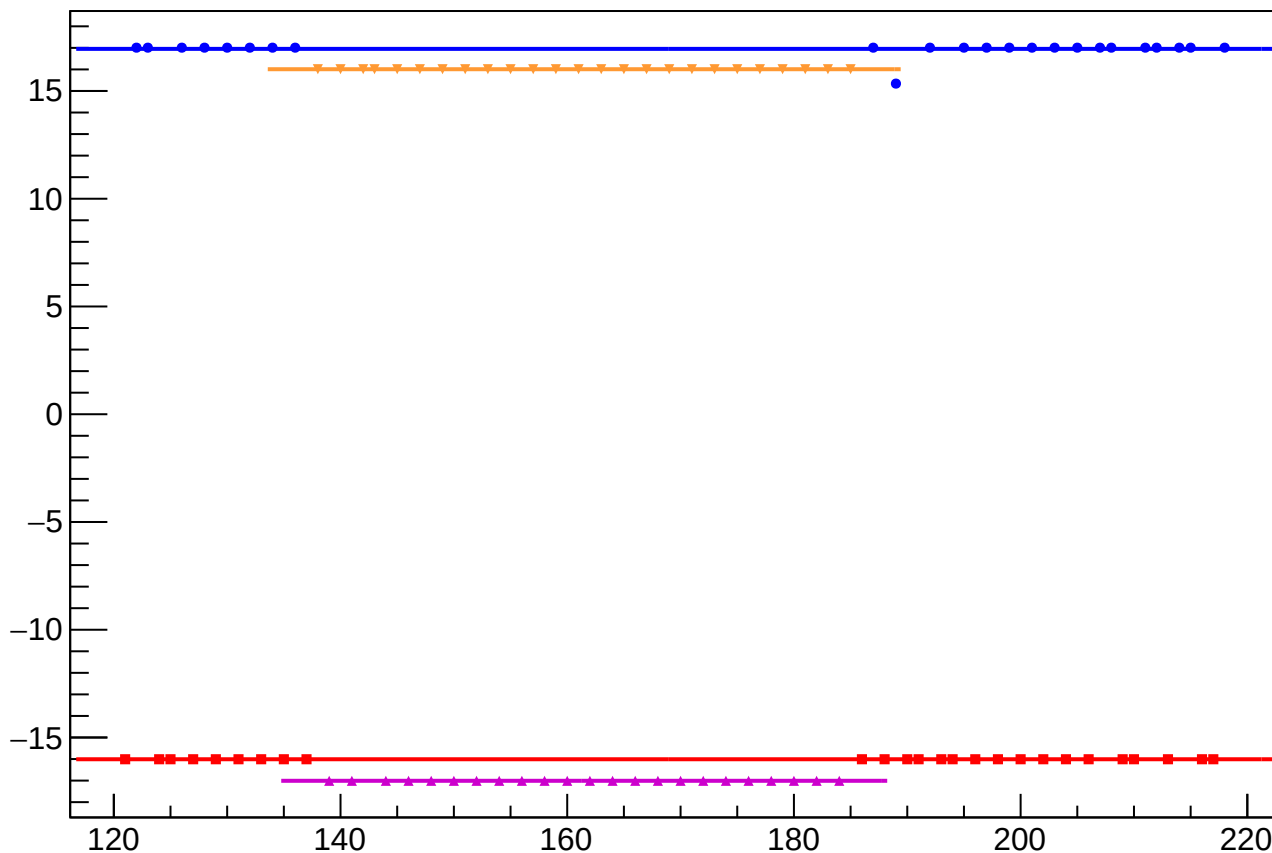
χ^2/NDF : 59361948070871

IGL1I00DI24_24M_mean vs Slug, Sign Corrected

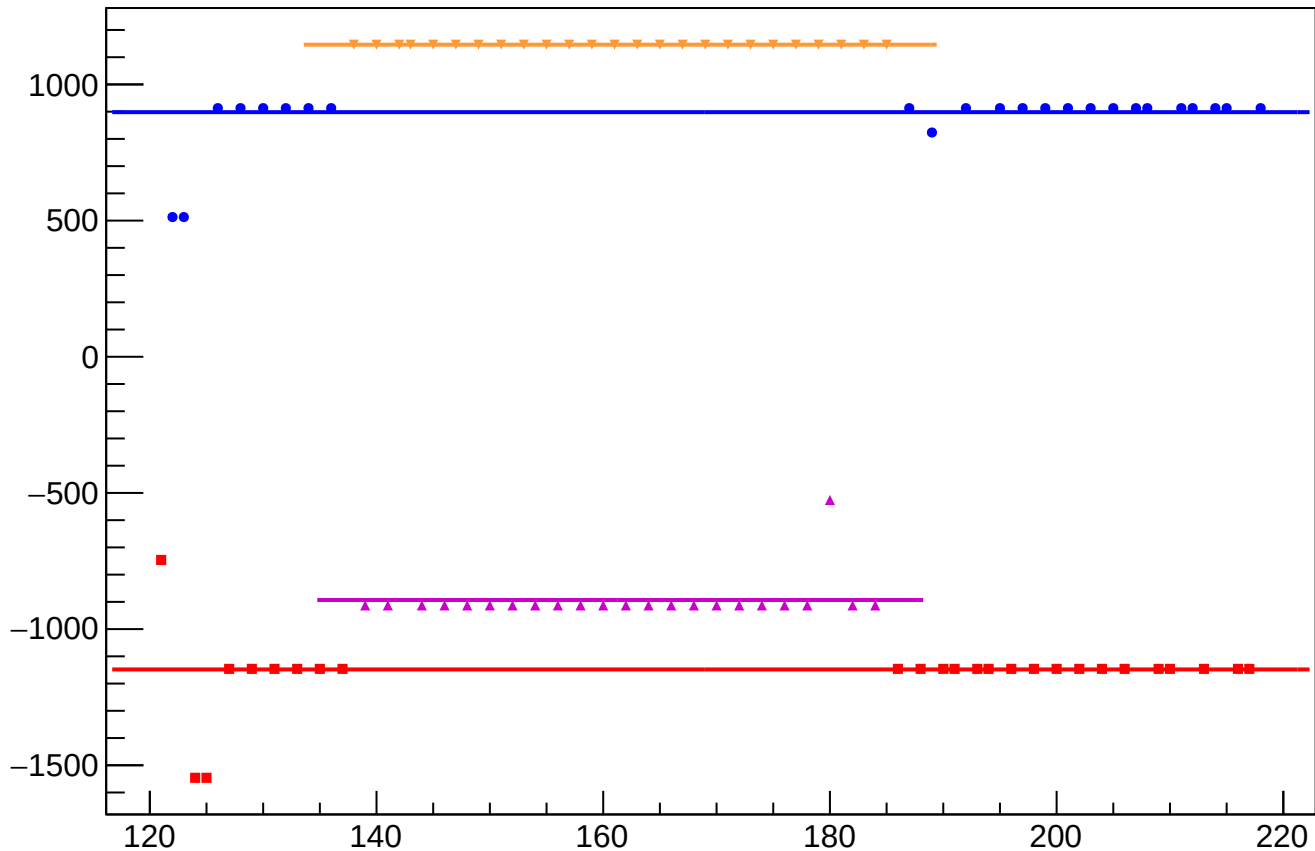


Right In: 15.956 $\pm$ 0.000 χ^2 /NDF: 121358758616927150227191851122688.0/23
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 18080566825018732520144896.0/25
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: 0.243 $\pm$ 0.000 χ^2 /NDF: 1761138600740

IGL1I00OD16_16_mean vs Slug, Sign Corrected

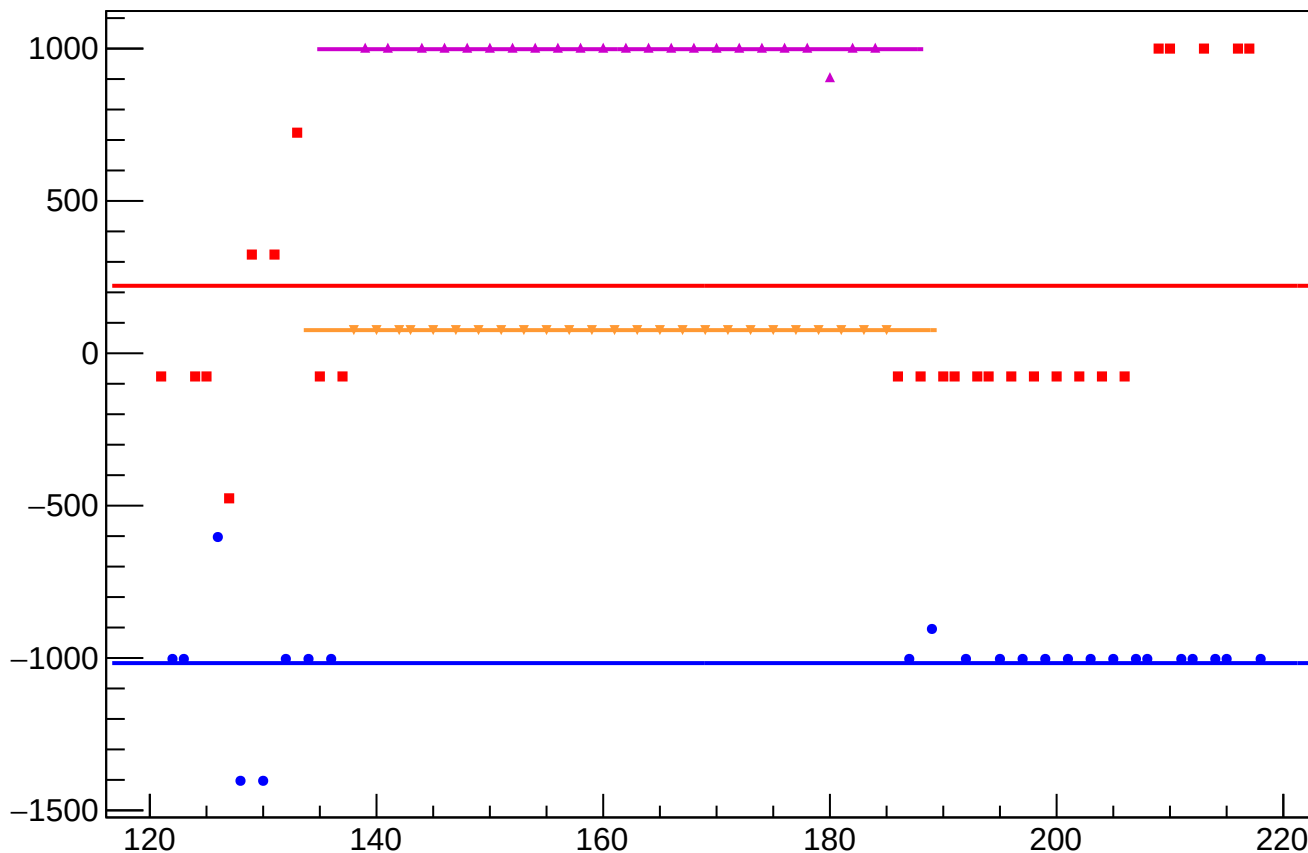


RTPAPOSUCNT_mean vs Slug, Sign Corrected



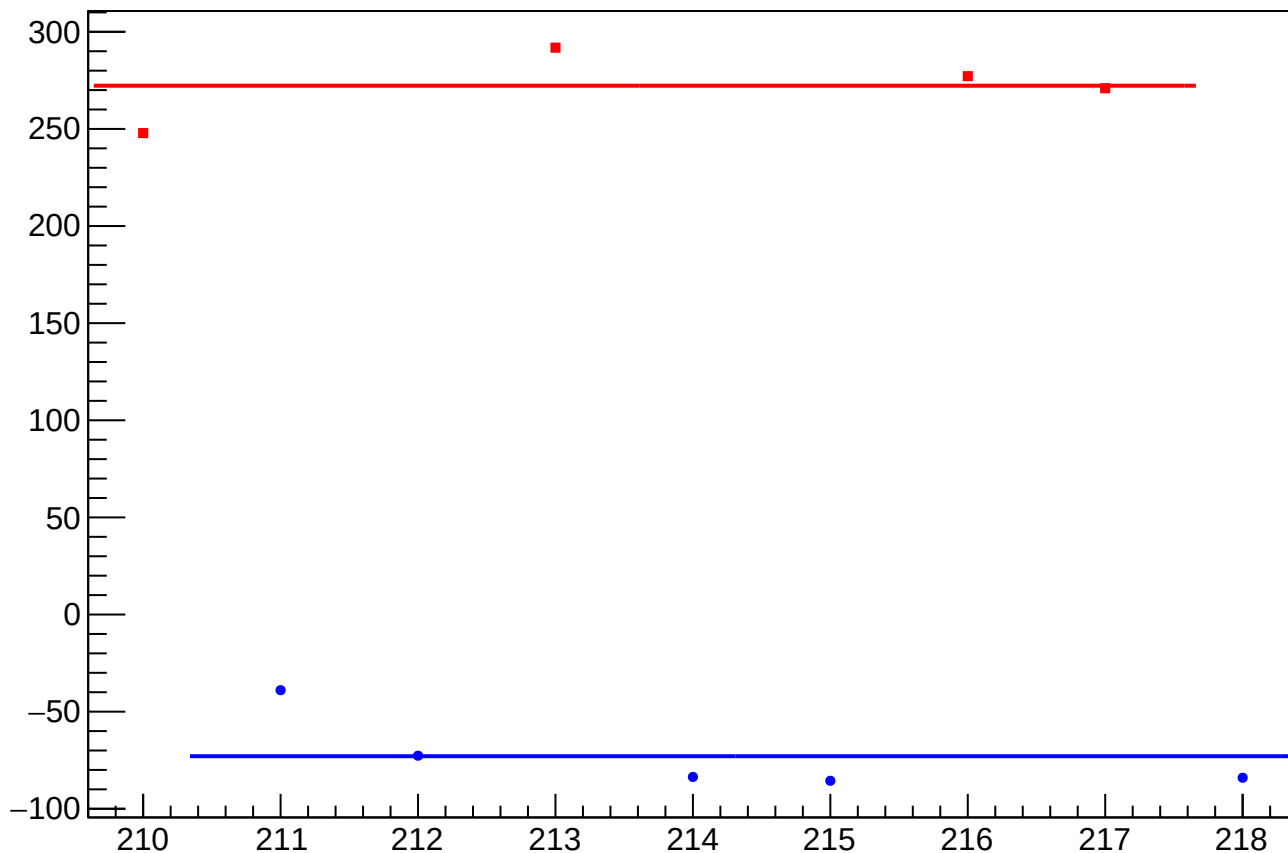
Right In: 898.187 +/- 0.000 χ^2/NDF : 7274552111485240646110453975784357888.0/23
 Left Out: 1146.011 +/- 0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1148.115 +/- 0.000 χ^2/NDF : 13753930292382604171741895335830618112.0/25
 Left In: -893.116 +/- 0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 28.847 +/- 0.000 χ^2/NDF : 7214745103099

RTPAPOSVCNT_mean vs Slug, Sign Corrected



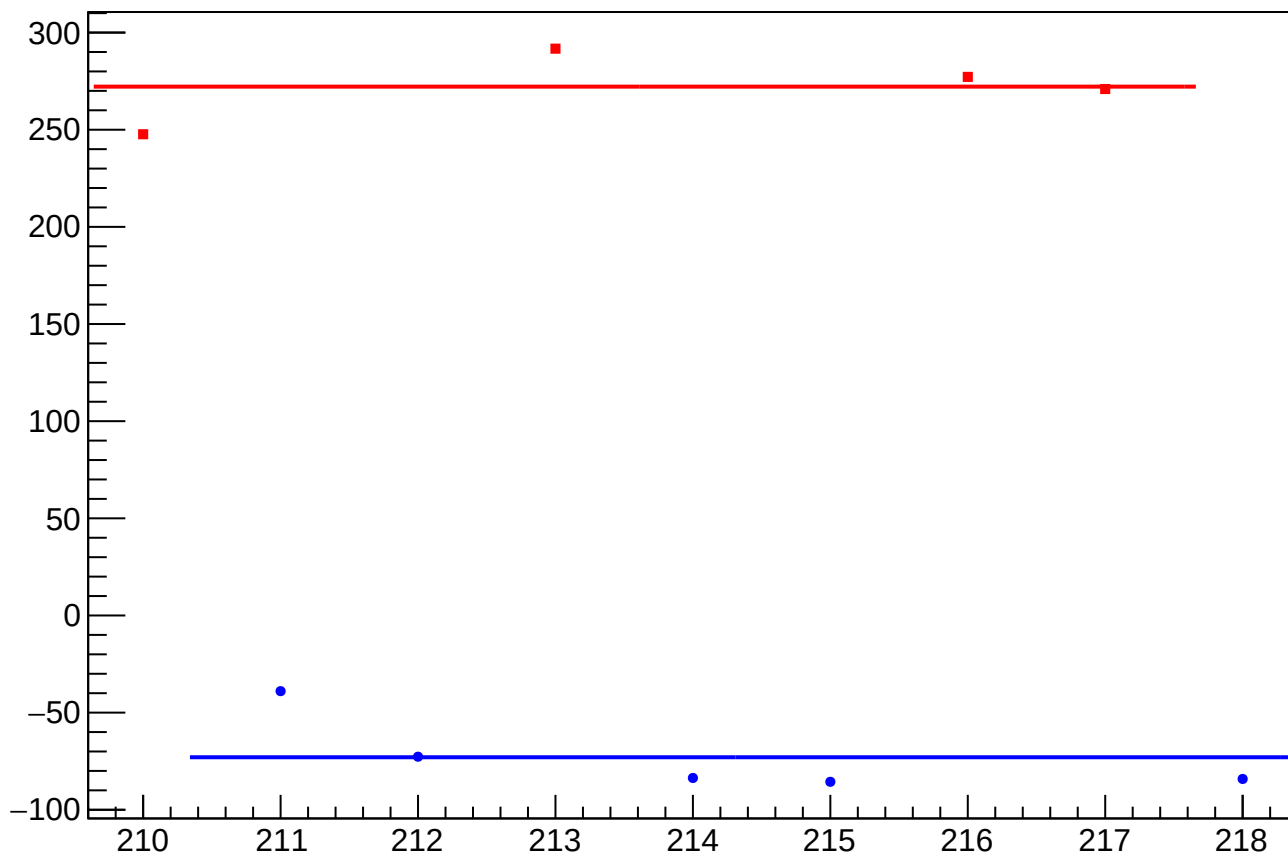
Left: 524.750+/-0.000 χ^2/NDF : 7910729679804037
 Right In: -1016.758+/-0.000 χ^2/NDF : 23403855953255130577088451999122325504.0/23
 Left Out: 76.011+/-0.000 χ^2/NDF : 11003263624957134120836661248.0/24
 Right: -398.415+/-0.000 χ^2/NDF : 15369491676459
 In: 77.324+/-0.000 χ^2/NDF : 338363378058707132
 Right Out: 221.555+/-0.000 χ^2/NDF : 346615768237306618736314442733764739072.0/25
 Out: 140.508+/-0.000 χ^2/NDF : 3645452952850733
 Left In: 998.020+/-0.000 χ^2/NDF : 826231736084035689068445378231140352.0/22
 All: 109.360+/-0.000 χ^2/NDF : 375492970328

RTPPITA1CNT_mean vs Slug, Sign Corrected



Right In: -72.945 ± 0.000 $\chi^2/\text{NDF}: 119284685234098125759576533062647808.0/4$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Right Out: 272.251 ± 0.000 $\chi^2/\text{NDF}: 74523041866937066731756197506973696.0/3$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 All: 78.901 ± 0.000 $\chi^2/\text{NDF}: 2021692415365059$

RTPPITA2CNT_mean vs Slug, Sign Corrected



Right In: -72.969 ± 0.000 $\chi^2/\text{NDF}: 119488906189493343156944358768377856.0/4$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Right Out: 272.179 ± 0.000 $\chi^2/\text{NDF}: 74848359580894041545317741003538432.0/3$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 All: 78.855 ± 0.000 $\chi^2/\text{NDF}: 2021186891337244$