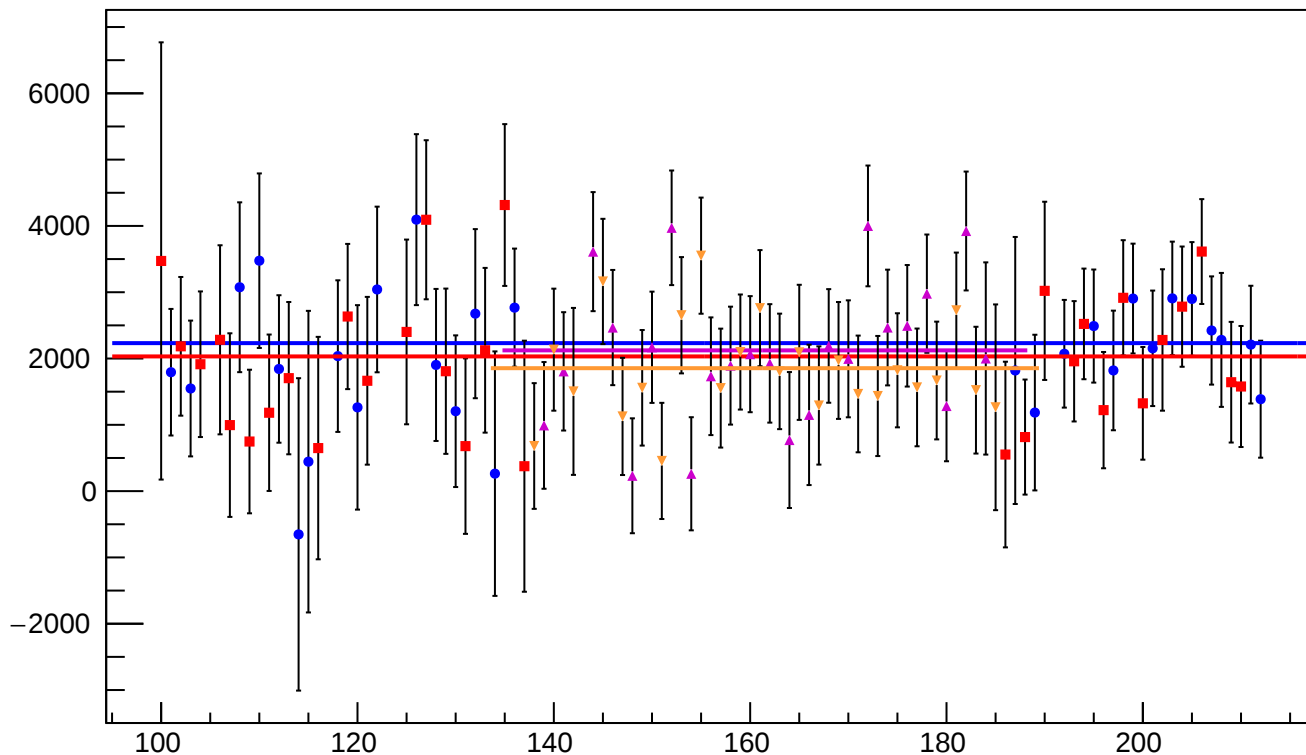


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2232.280+/-195.477

Left Out: 1854.267+/-187.405

Right Out: 2031.700+/-195.482

Left In: 2123.138+/-188.684

χ^2/NDF : 13.7/28

χ^2/NDF : 15.1/23

χ^2/NDF : 24.0/30

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2131.993+/-138.225

In: 2175.780+/-135.758

Out: 1939.242+/-135.281

All: 2057.095+/-95.826

χ^2/NDF : 48.1/46

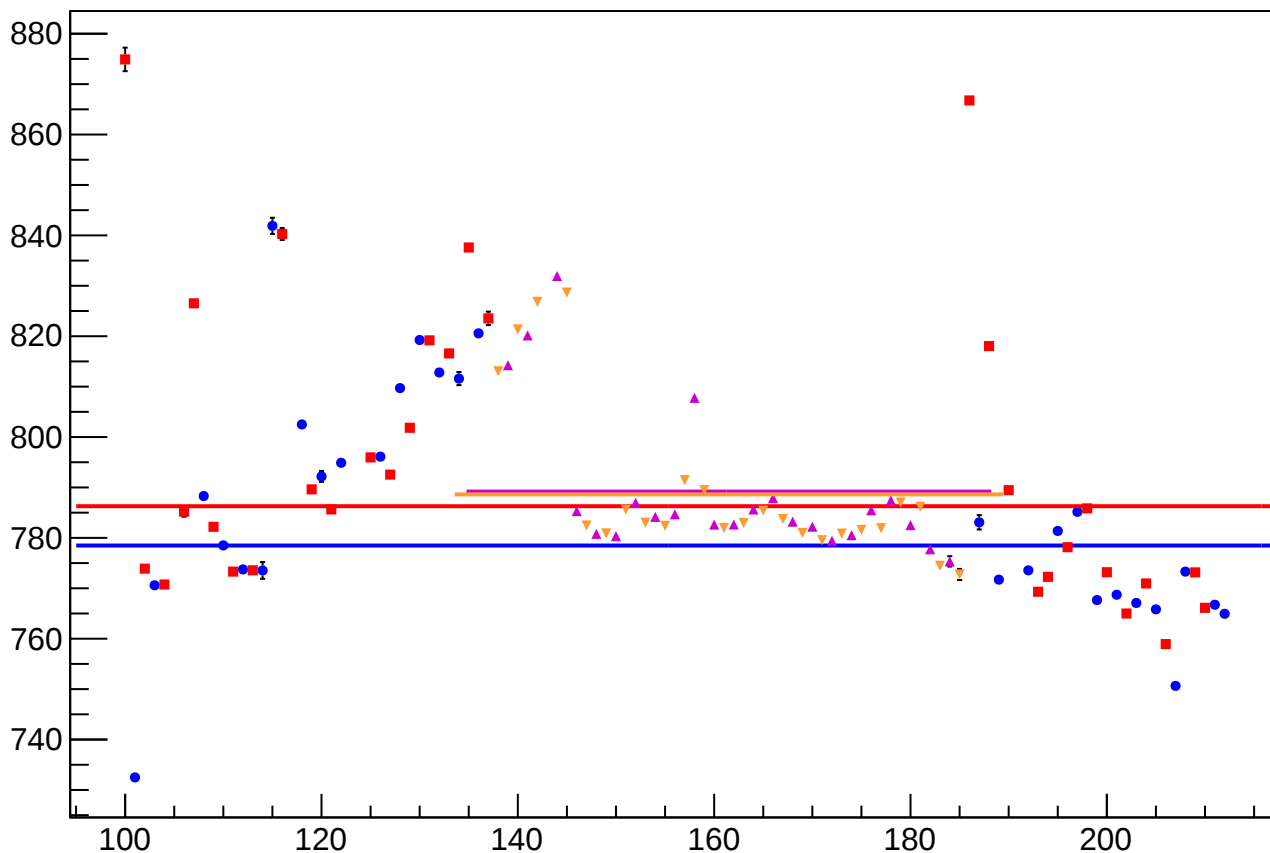
χ^2/NDF : 38.2/59

χ^2/NDF : 45.9/51

χ^2/NDF : 39.5/54

χ^2/NDF : 86.9/106

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 778.481 $\pm$ 0.138 χ^2 /NDF: 23682.6/28

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

Right Out: 786.283 $\pm$ 0.138 χ^2 /NDF: 29982.8/30

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

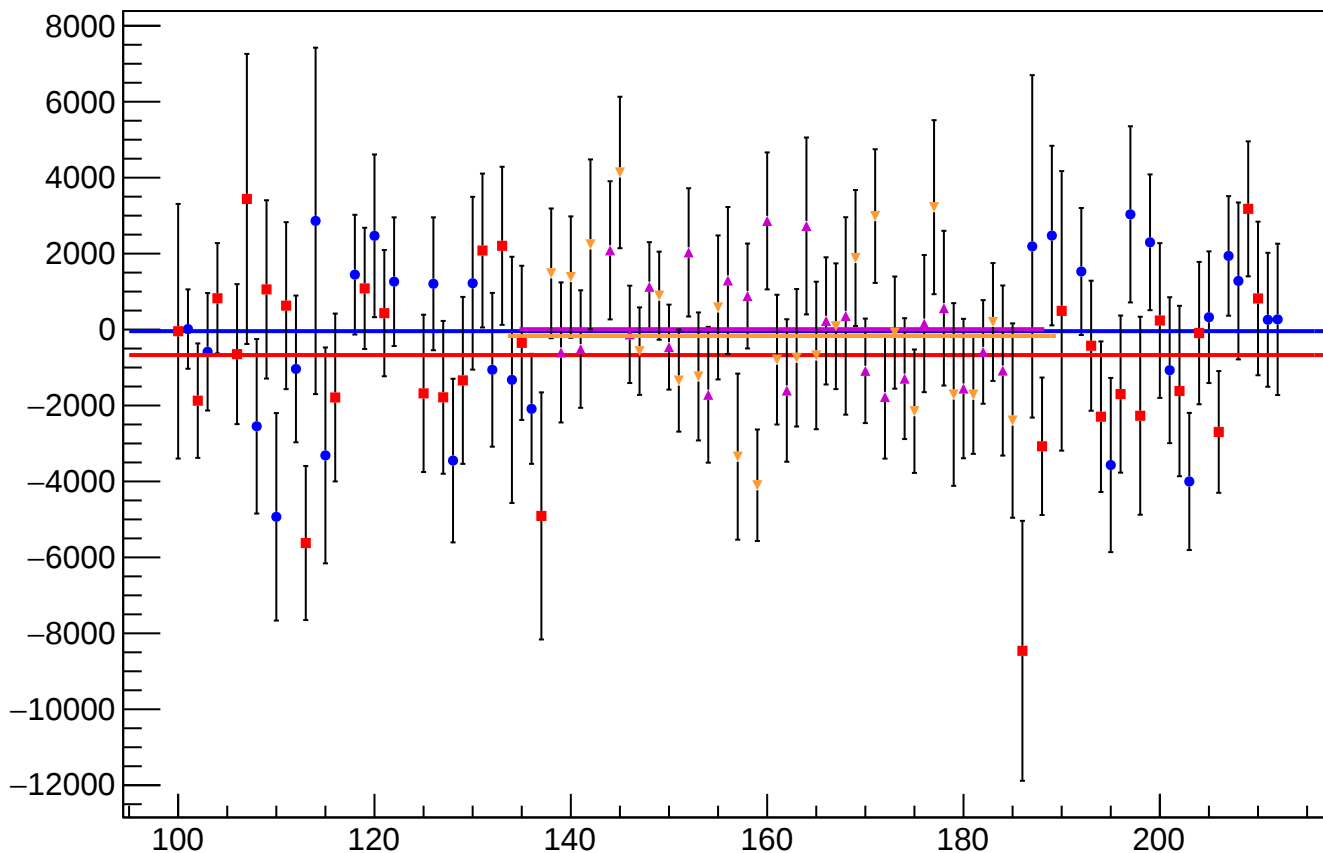
Right: 782.382 $\pm$ 0.098 χ^2 /NDF: 55258.2/59

In: 784.022 $\pm$ 0.096 χ^2 /NDF:38130.1/51

Out: 787.505 $\pm$ 0.096 χ^2 /NDF:41611.1/54

All: 785.770 $\pm$ 0.068 χ^2 /NDF: 80401.9/106

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -41.945 $\pm$ 353.306 χ^2/NDF : 30.4/28

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

Right Out: -671.409 $\pm$ 363.496 χ^2/NDF : 33.4/30

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

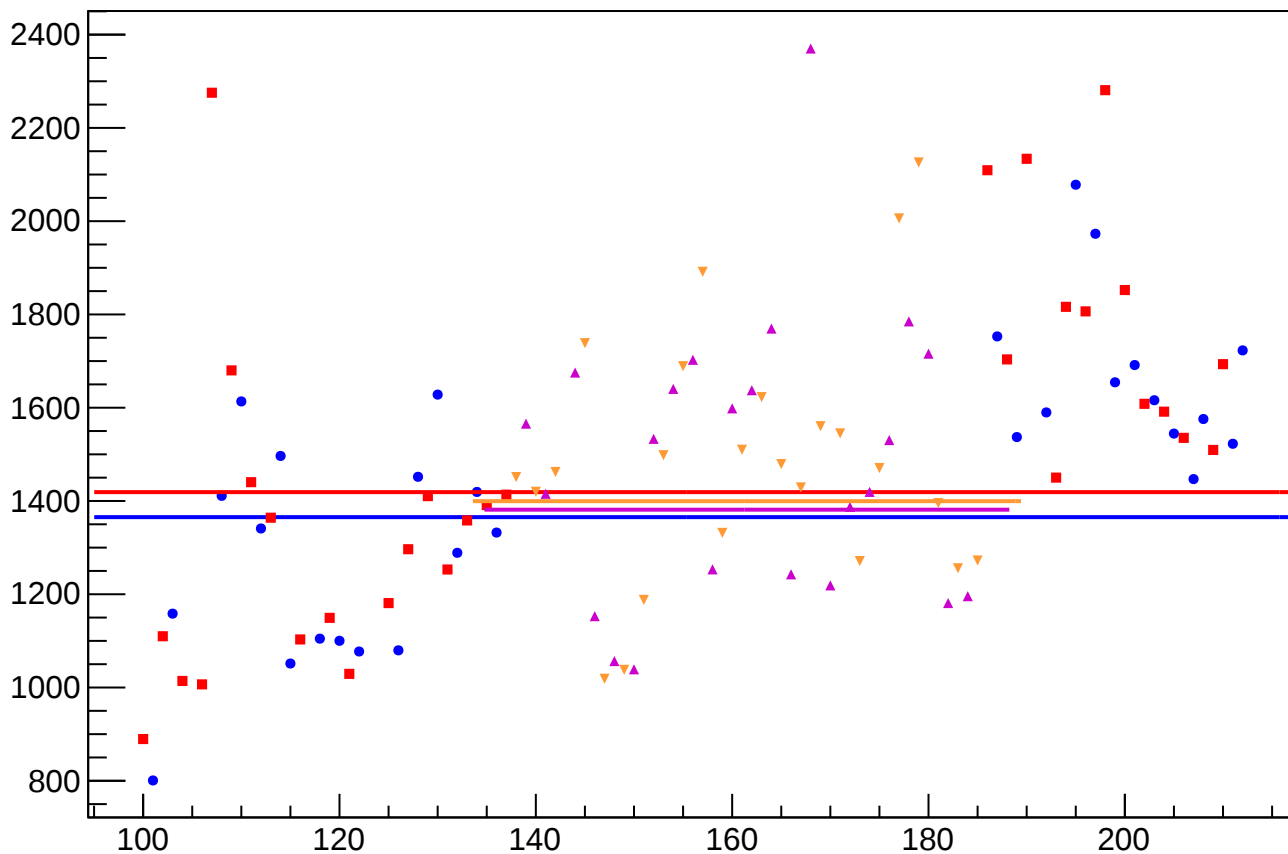
Right: -347.730 $\pm$ 253.351 χ^2/NDF : 65.3/59

In: -14.760 $\pm$ 244.162 χ^2/NDF :44.6/51

Out: -403.822 $\pm$ 248.460 χ^2/NDF :64.4/54

All: -205.897 $\pm$ 174.148 χ^2/NDF : 110.3/106

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1365.358 $\pm$ 0.250 χ^2 /NDF: 1561889.0/28

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

Right Out: 1418.993 $\pm$ 0.257 χ^2 /NDF: 1523336.5/30

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

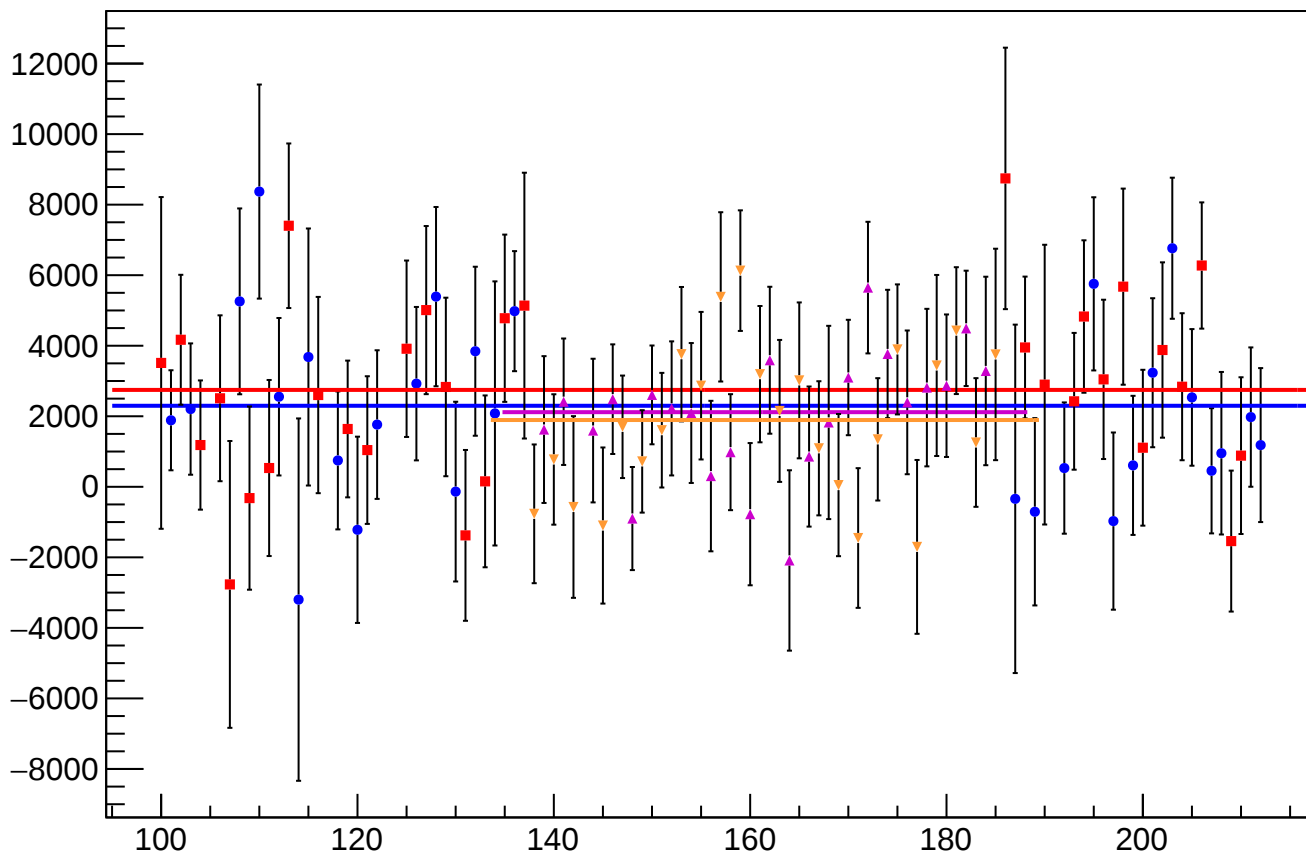
Right: 1391.413 $\pm$ 0.179 χ^2 /NDF: 3107616.3/59

In: 1373.717 $\pm$ 0.173 χ^2 /NDF:2840520.2/51

Out: 1408.653 $\pm$ 0.176 χ^2 /NDF:2645498.7/54

All: 1390.880 $\pm$ 0.123 χ^2 /NDF: 5506135.8/100

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2297.574+/-413.141 χ^2/NDF : 28.3/28

Left Out: 1893.469+/-394.877 χ^2/NDF : 25.9/23

Right Out: 2747.350+/-421.605 χ^2/NDF : 31.7/30

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

Left: 2005.323+/-278.553 χ^2/NDF : 44.9/46

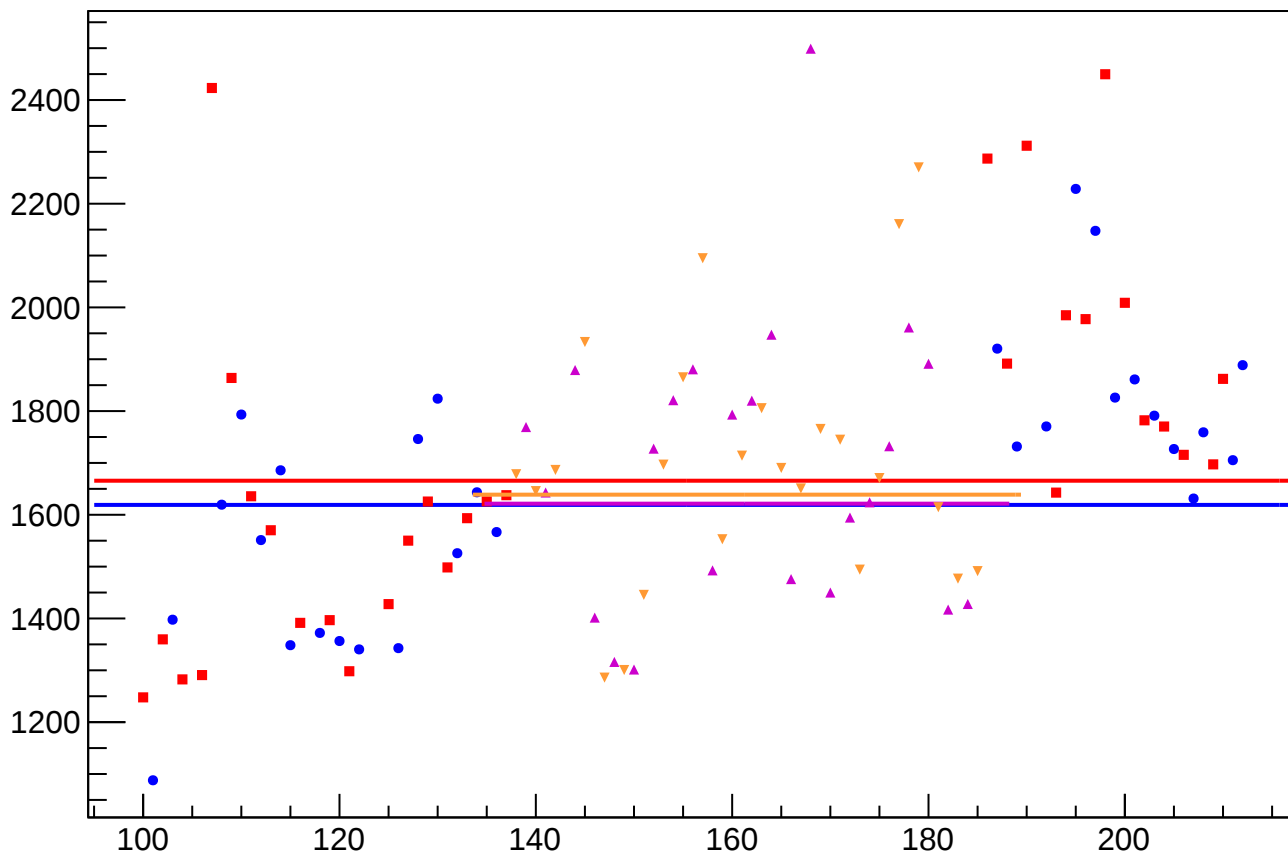
Right: 2517.902+/-295.082 χ^2/NDF : 60.5/59

In: 2202.312+/-284.746 χ^2/NDF : 47.2/51

Out: 2292.487+/-288.206 χ^2/NDF : 59.8/54

All: 2246.855+/-202.558 χ^2/NDF : 107.0/106

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1619.038 $\pm$ 0.292 χ^2 /NDF: 817620.1/28

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

Right Out: 1665.693 $\pm$ 0.298 χ^2 /NDF: 899780.7/30

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

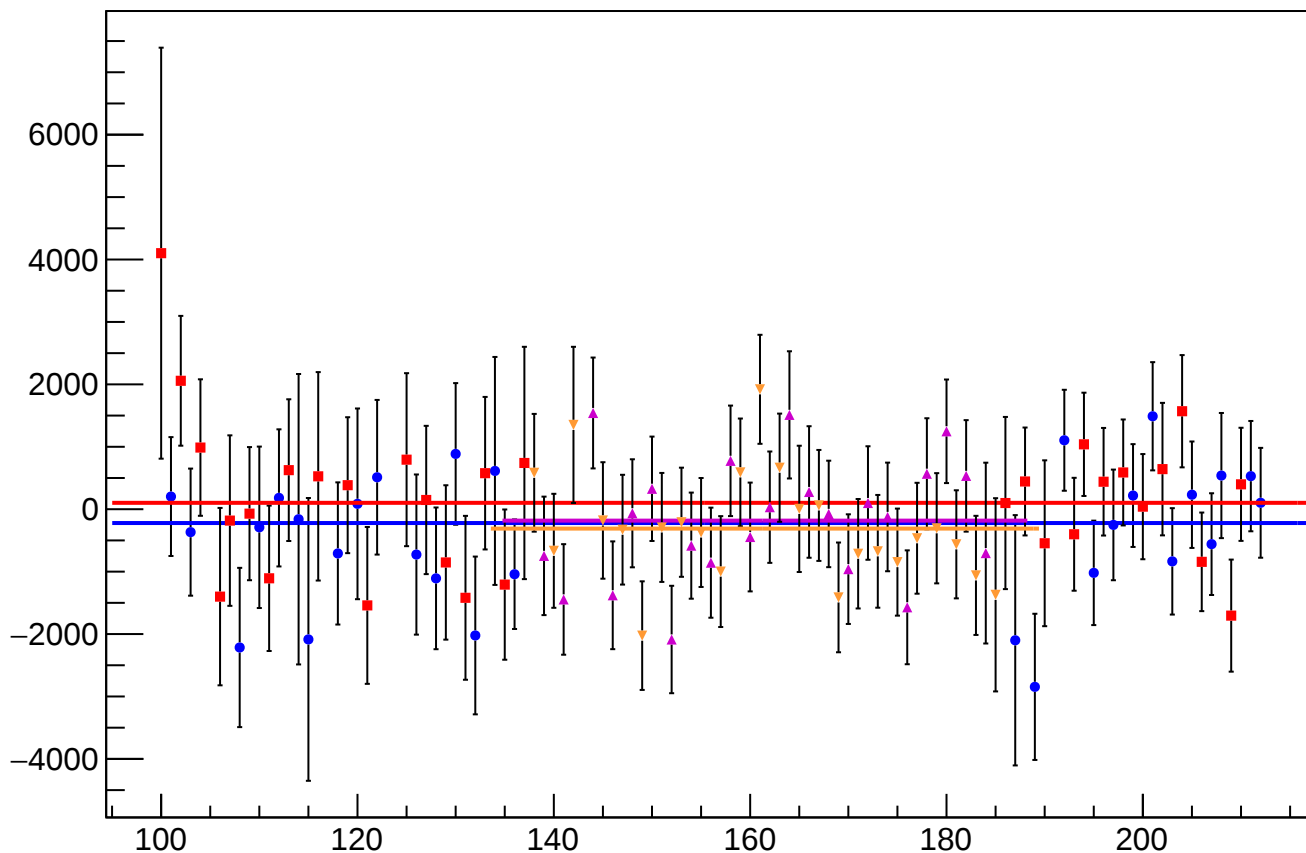
Right: 1641.893 $\pm$ 0.209 χ^2 /NDF: 1729894.8/59

In: 1620.287 $\pm$ 0.201 χ^2 /NDF: 1592964.9/51

Out: 1651.371 $\pm$ 0.204 χ^2 /NDF: 1576020.4/54

All: 1635.641 $\pm$ 0.143 χ^2 /NDF: 3180757.8/100

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -221.413 ± 194.009 $\chi^2/\text{NDF}: 25.0/28$

Left Out: -310.563 ± 186.538 $\chi^2/\text{NDF}: 20.0/23$

Right Out: 102.243 ± 193.629 $\chi^2/\text{NDF}: 24.6/30$

Left In: -182.895 ± 187.817 $\chi^2/\text{NDF}: 26.1/22$

Left: -247.165 ± 132.352 $\chi^2/\text{NDF}: 46.4/46$

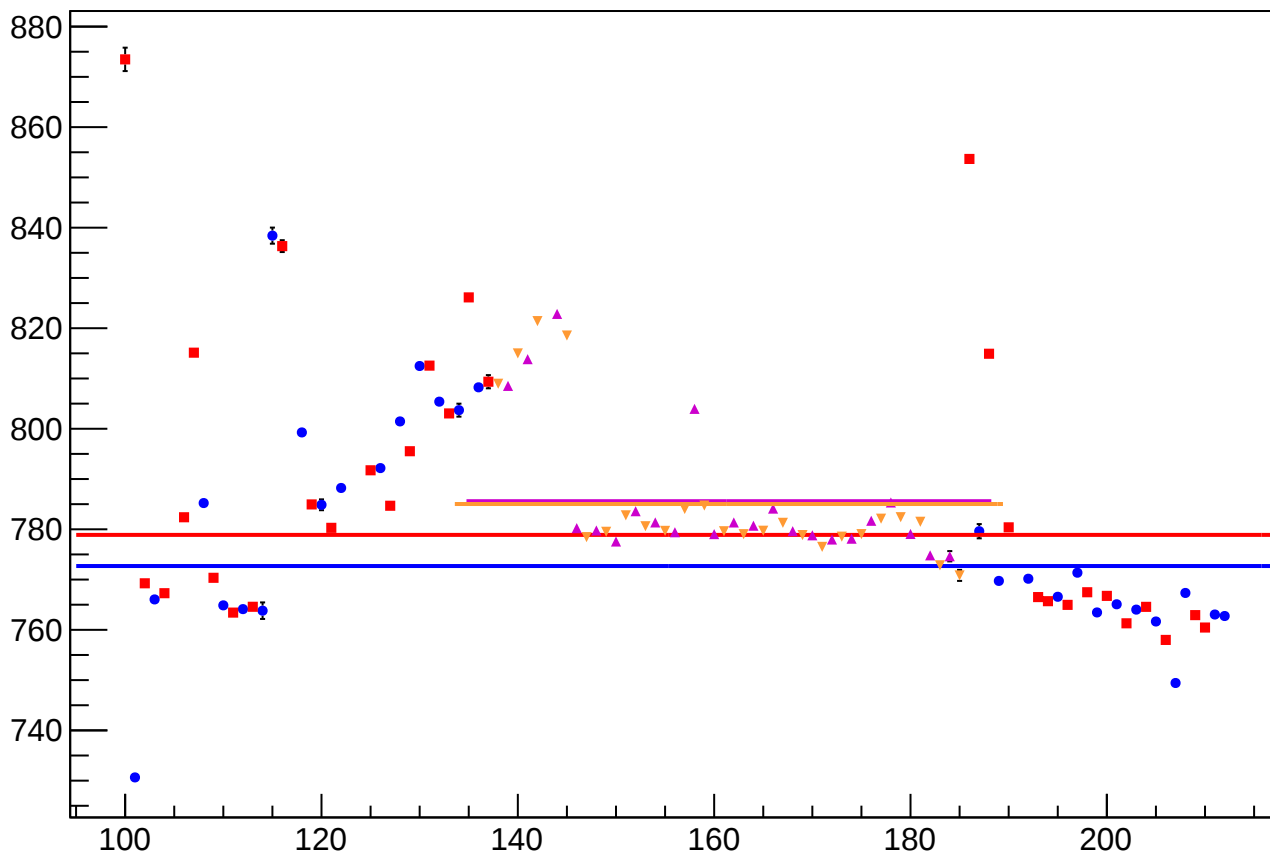
Right: -59.268 ± 137.050 $\chi^2/\text{NDF}: 51.0/59$

In: -201.530 ± 134.943 $\chi^2/\text{NDF}: 51.1/51$

Out: -111.857 ± 134.339 $\chi^2/\text{NDF}: 47.0/54$

All: -156.493 ± 95.205 $\chi^2/\text{NDF}: 98.4/106$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 772.693 $\pm$ 0.137 χ^2 /NDF: 20318.1/28

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

Right Out: 778.888 $\pm$ 0.137 χ^2 /NDF: 28453.8/30

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

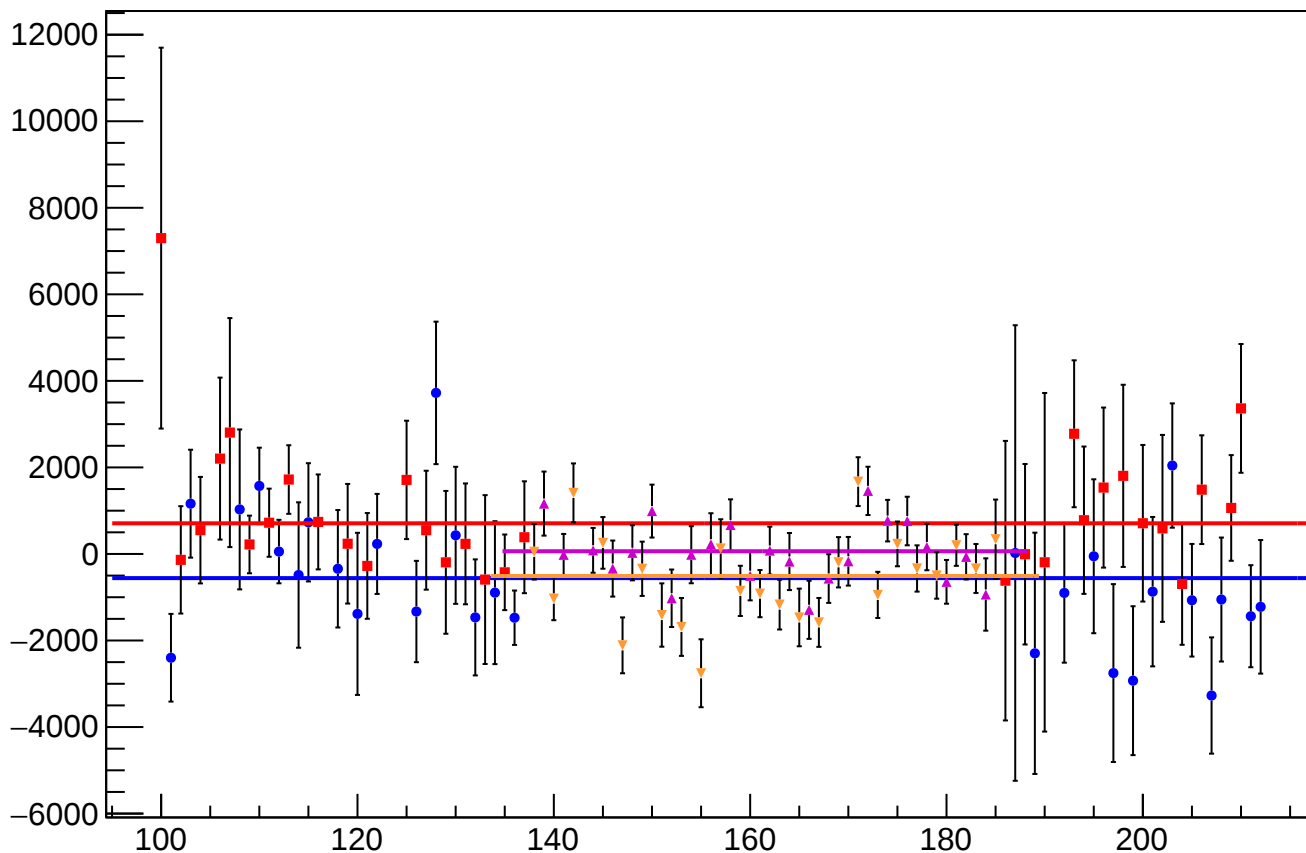
Right: 775.797 $\pm$ 0.097 χ^2 /NDF: 49793.4/59

In: 779.352 $\pm$ 0.095 χ^2 /NDF:34255.5/51

Out: 782.074 $\pm$ 0.095 χ^2 /NDF:38865.7/54

All: 780.719 $\pm$ 0.067 χ^2 /NDF: 73530.0/106

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -558.245+/-239.037 χ^2/NDF : 36.2/28

Left Out: -509.311+/-121.190 χ^2/NDF :60.5/23

Right Out: 708.366+/-237.232 χ^2/NDF : 17.0/30

Left In: 62.768+/-122.045 χ^2/NDF :28.8/22

Left: -225.283+/-85.995 χ^2/NDF : 100.4/46

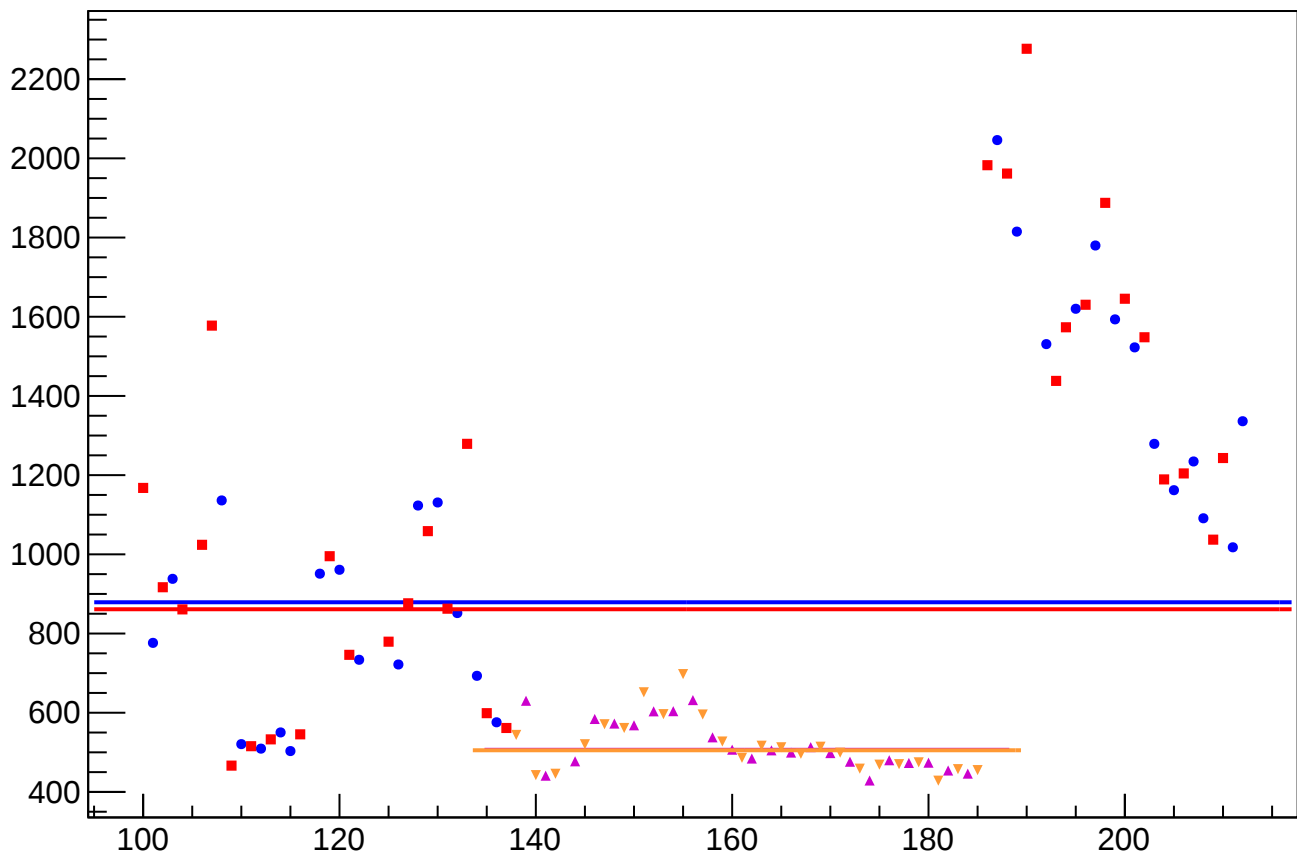
Right: 79.860+/-168.383 χ^2/NDF : 67.4/59

In: -65.645+/-108.697 χ^2/NDF :70.4/51

Out: -257.302+/-107.923 χ^2/NDF :98.4/54

All: -162.158+/-76.585 χ^2/NDF : 170.4/106

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 878.978 $\pm$ 0.169 χ^2 /NDF: 4433898.5/28

Left Out: 505.220 $\pm$ 0.086 χ^2 /NDF: 485593.0/23

Right Out: 861.322 $\pm$ 0.168 χ^2 /NDF: 5695465.8/30

Left In: 506.380 $\pm$ 0.086 χ^2 /NDF: 436294.4/22

Left: 505.796 $\pm$ 0.061 χ^2 /NDF: 921978.4/46

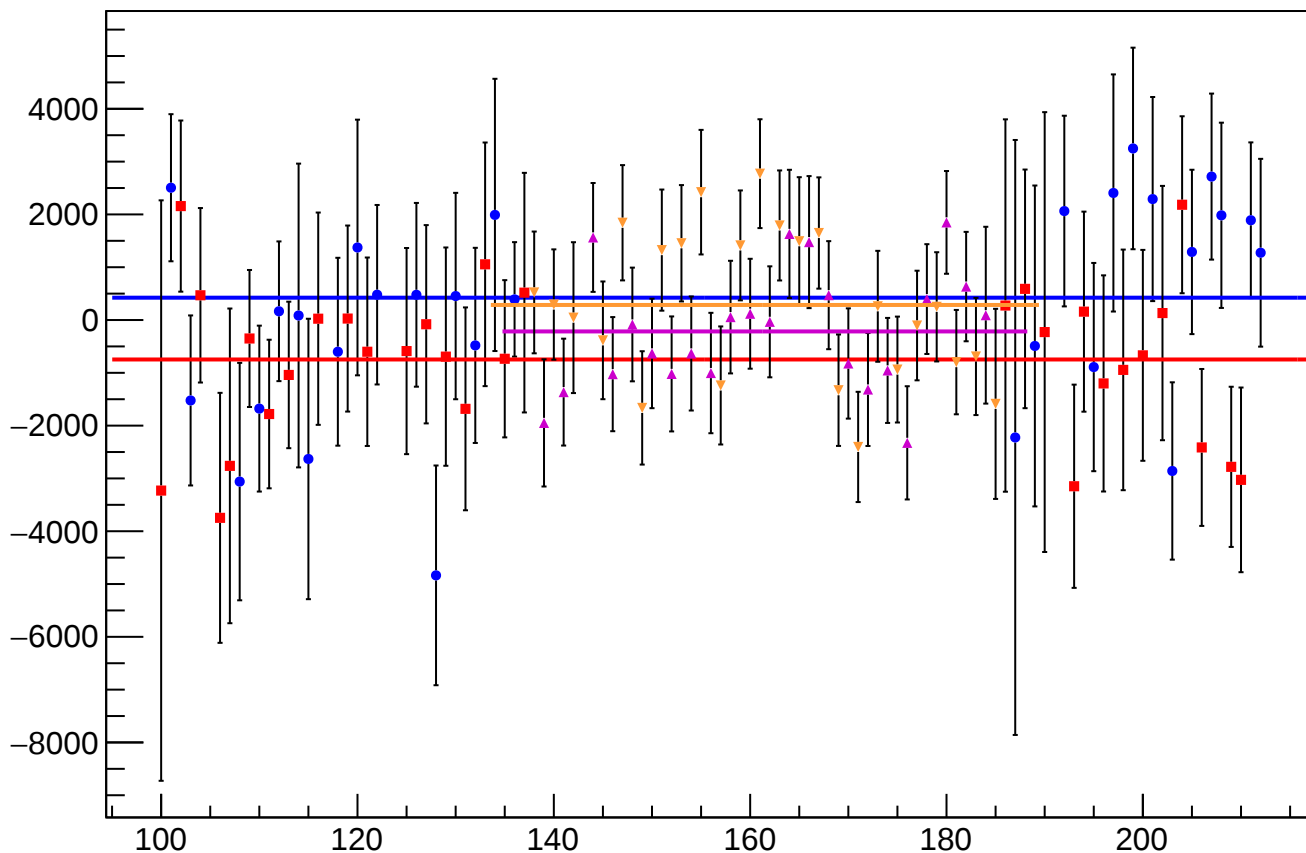
Right: 870.083 $\pm$ 0.119 χ^2 /NDF: 10134861.5/59

In: 583.426 $\pm$ 0.077 χ^2 /NDF: 8724756.0/51

Out: 578.919 $\pm$ 0.076 χ^2 /NDF: 9754831.6/54

All: 581.156 $\pm$ 0.054 χ^2 /NDF: 18481319.3/10

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 423.017 $\pm$ 333.225 χ^2 /NDF: 30.5/28

Left Out: 285.144 $\pm$ 224.378 χ^2 /NDF:38.3/23

Right Out: -747.289 $\pm$ 337.764 χ^2 /NDF: 18.6/30

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

Left: 35.874 $\pm$ 159.089 χ^2 /NDF: 65.2/46

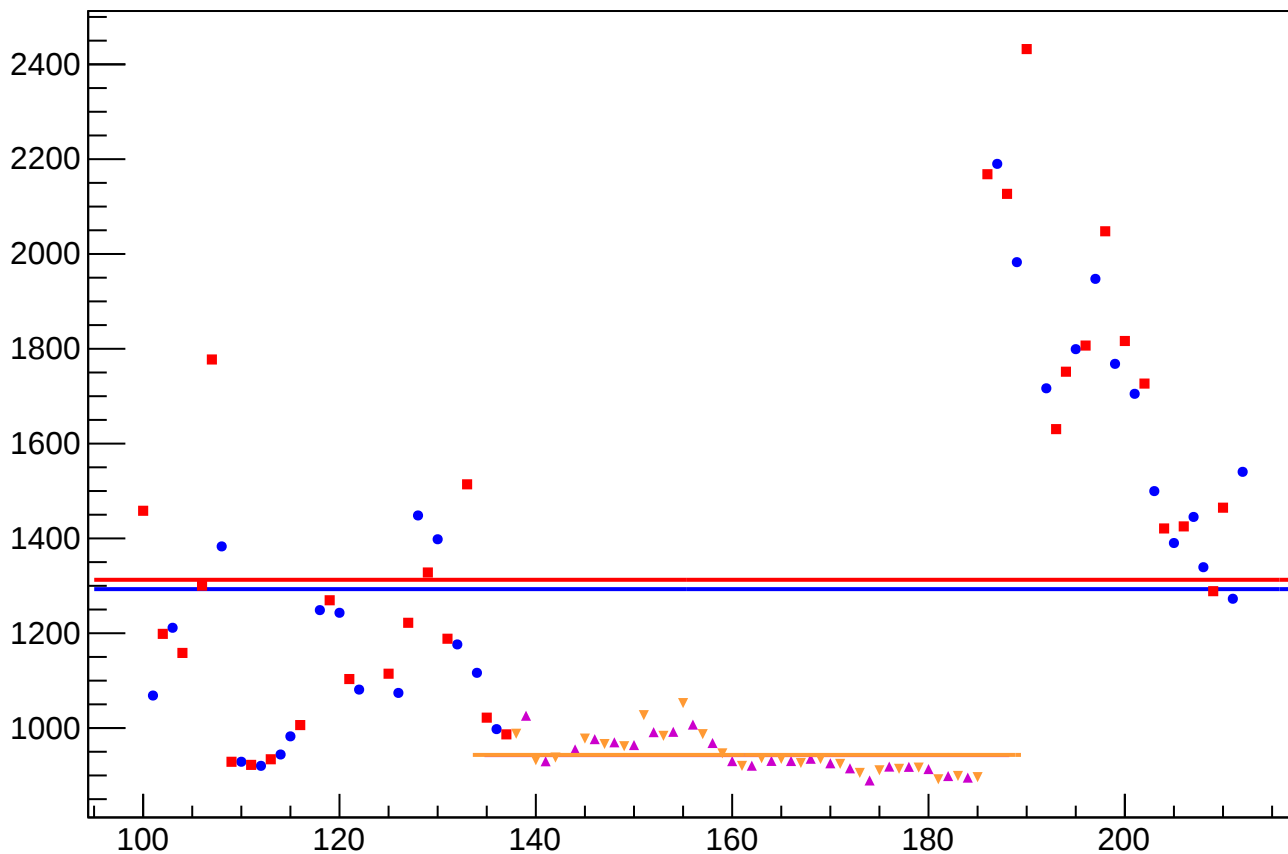
Right: -154.220 $\pm$ 237.214 χ^2 /NDF: 55.2/59

In: -15.242 $\pm$ 186.813 χ^2 /NDF:57.4/51

Out: -30.967 $\pm$ 186.897 χ^2 /NDF:63.3/54

All: -23.101 $\pm$ 132.127 χ^2 /NDF: 120.8/106

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1293.029+/-0.236 χ^2/NDF : 1508579.7/28

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

Right Out: 1312.738+/-0.239 χ^2/NDF : 2027537.3/30

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

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

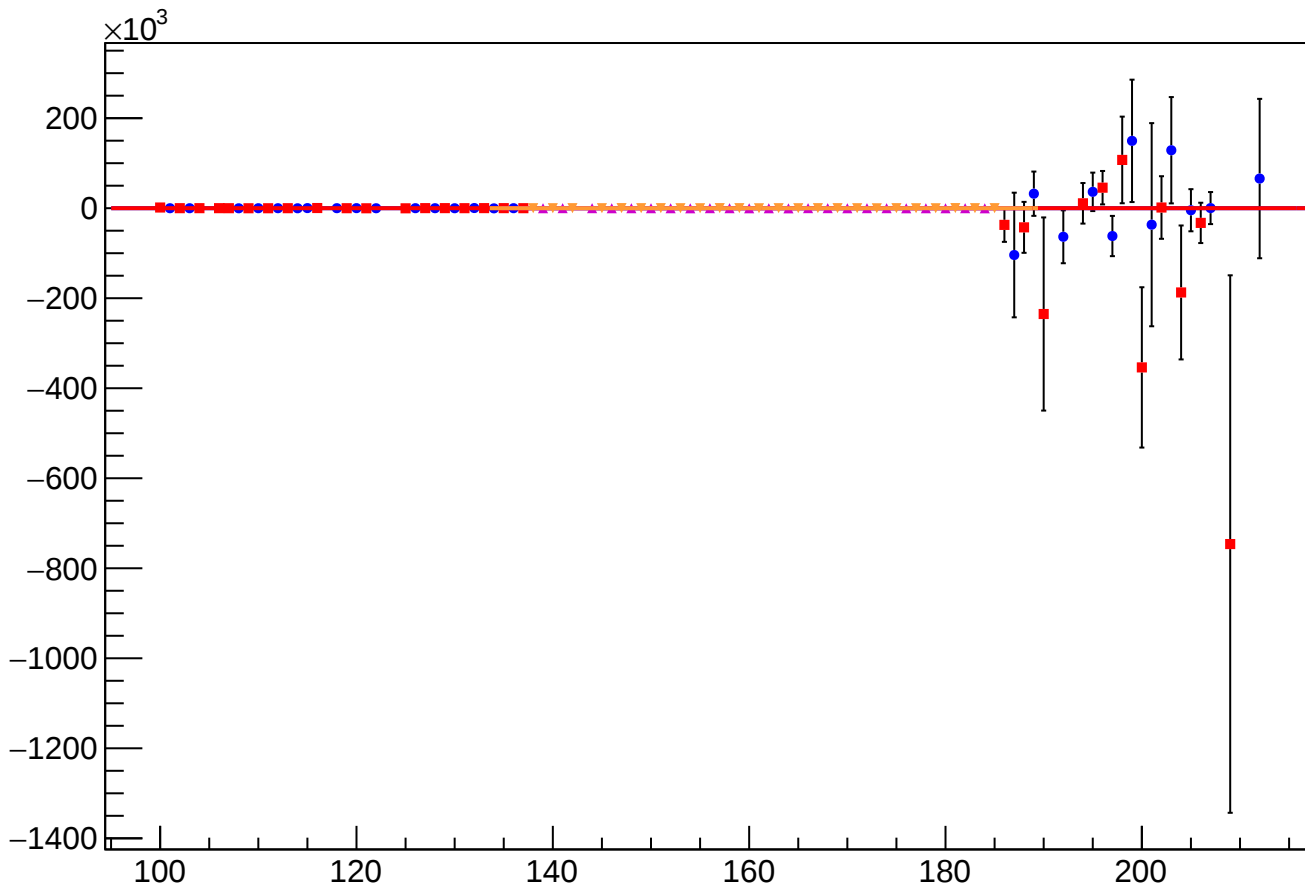
Right: 1302.750+/-0.168 χ^2/NDF : 3539567.9/59

In: 1052.962+/-0.132 χ^2/NDF : 3070824.9/51

Out: 1056.450+/-0.132 χ^2/NDF : 3747540.0/54

All: 1054.705+/-0.093 χ^2/NDF : 6818713.3/10

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.555 ± 30.032 χ^2/NDF : 23.3/26

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

Right Out: 31.724 ± 30.492 χ^2/NDF : 30.0/28

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

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

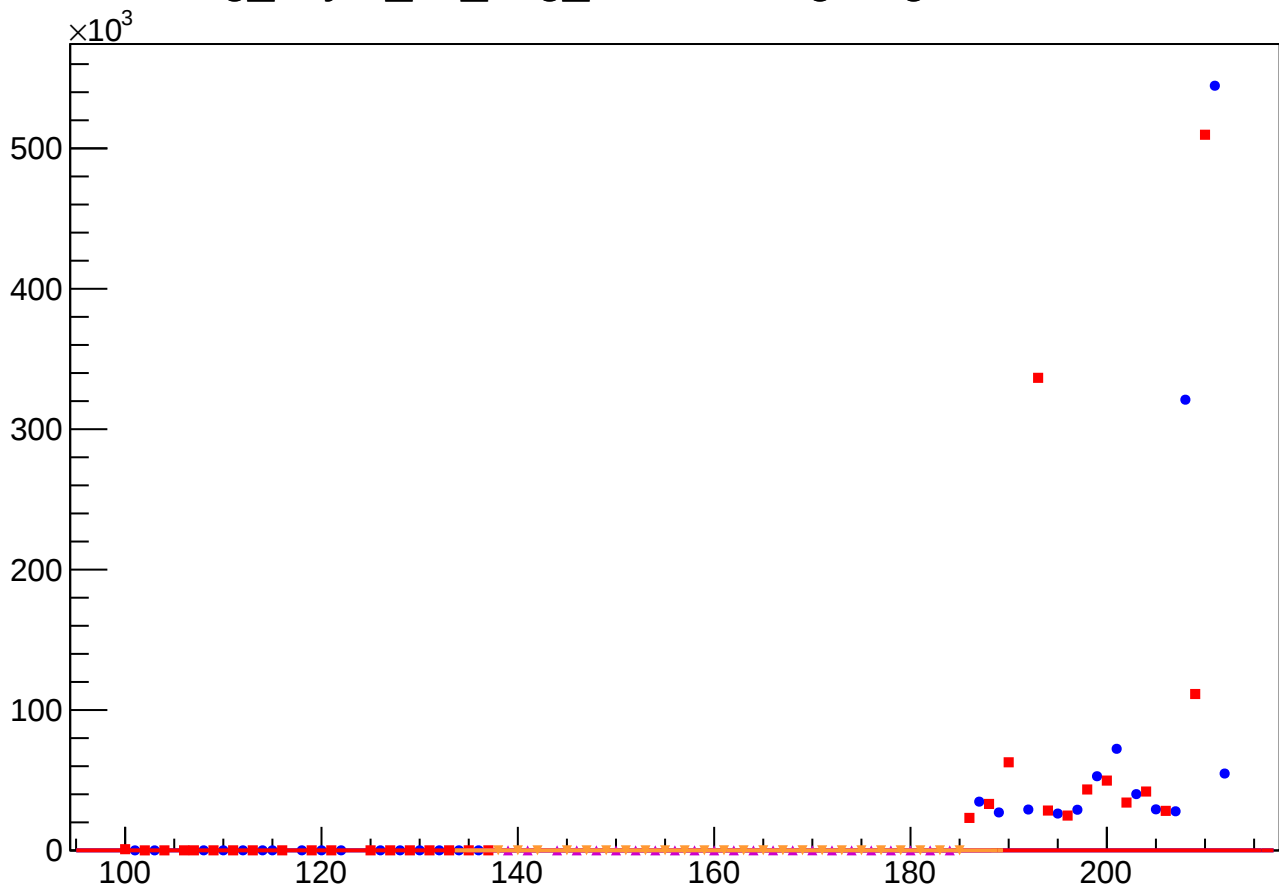
Right: 7.726 ± 21.397 χ^2/NDF : 54.5/55

In: -20.419 ± 17.527 χ^2/NDF : 45.9/49

Out: 12.994 ± 17.553 χ^2/NDF : 53.0/52

All: -3.737 ± 12.403 χ^2/NDF : 100.6/102

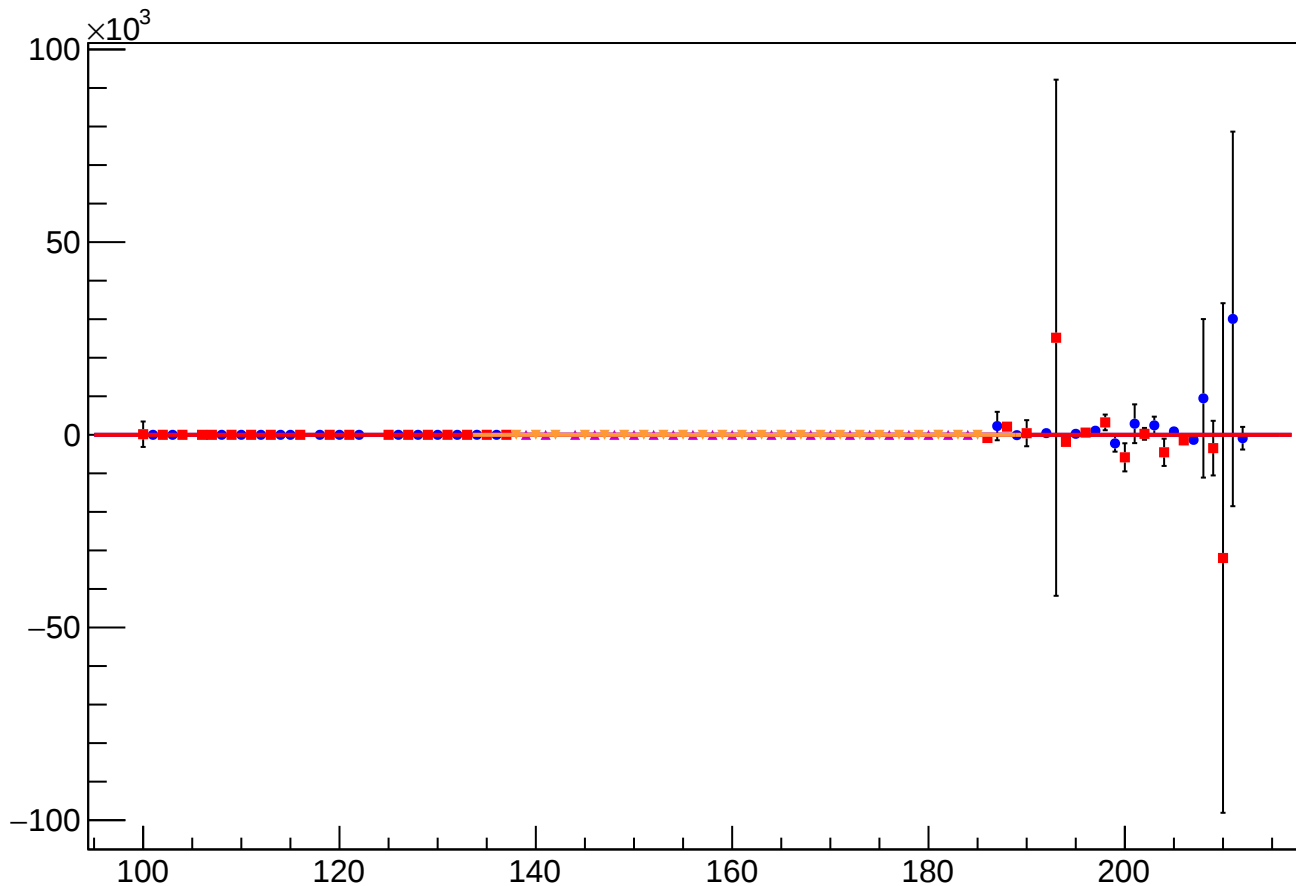
reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.140 $\pm$ 0.021 χ^2 /NDF: 6491779.0/28
 Left Out: 89.692 $\pm$ 0.015 χ^2 /NDF: 466281.5/23
 Right Out: 79.456 $\pm$ 0.022 χ^2 /NDF: 6003606.0/30
 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: 77.773 $\pm$ 0.015 χ^2 /NDF: 12507387.6/59
 In: 85.013 $\pm$ 0.012 χ^2 /NDF: 7265007.5/51
 Out: 86.300 $\pm$ 0.012 χ^2 /NDF: 6620591.4/54
 All: 85.655 $\pm$ 0.009 χ^2 /NDF: 13890983.8/106

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 31.5/28

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

Right Out: 0.038 ± 0.525 χ^2/NDF : 29.5/30

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

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

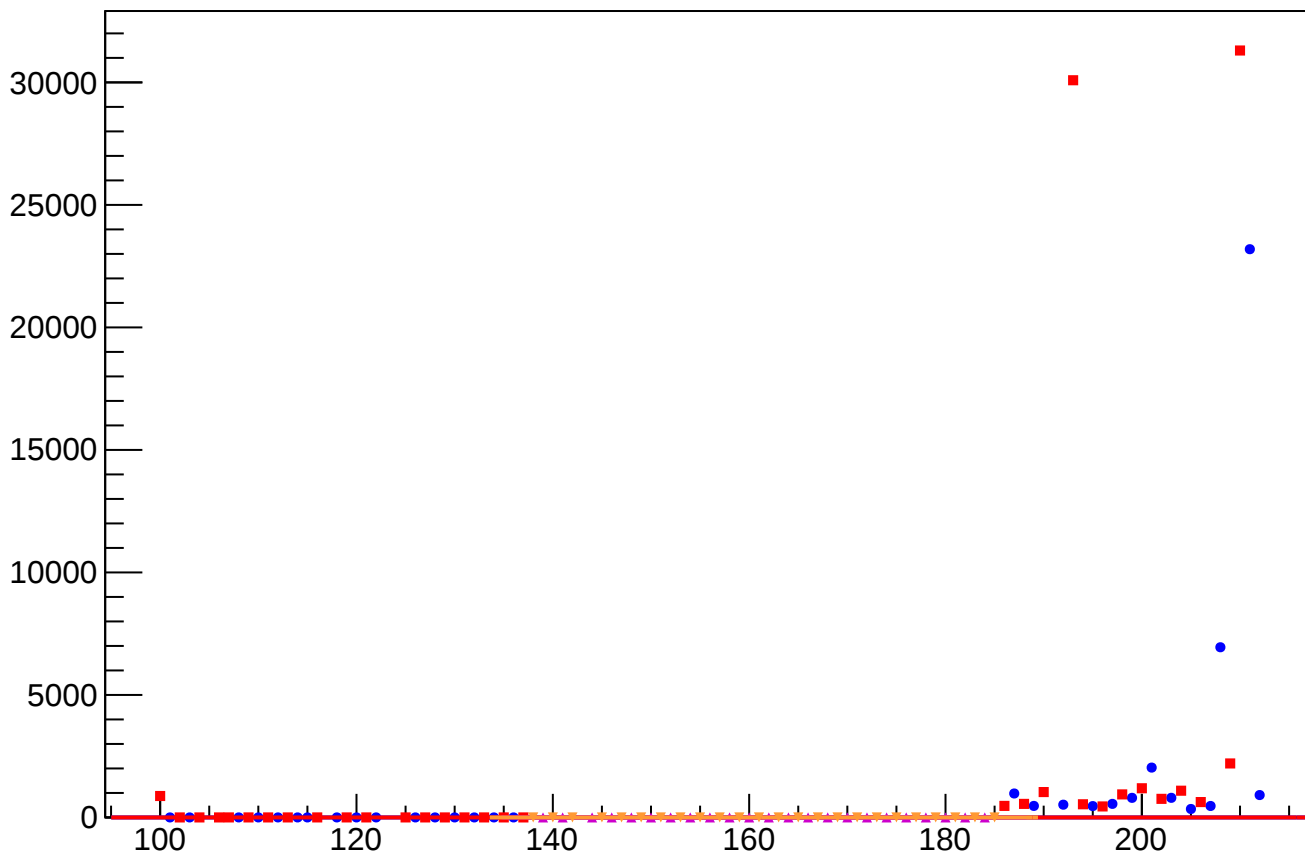
Right: -0.133 ± 0.363 χ^2/NDF : 61.2/59

In: -0.433 ± 0.306 χ^2/NDF : 58.0/51

Out: 0.096 ± 0.306 χ^2/NDF : 50.8/54

All: -0.168 ± 0.217 χ^2/NDF : 110.3/106

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 6197661.2/28

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

Right Out: 1.260+/-0.000 χ^2/NDF : 6613900.4/30

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

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

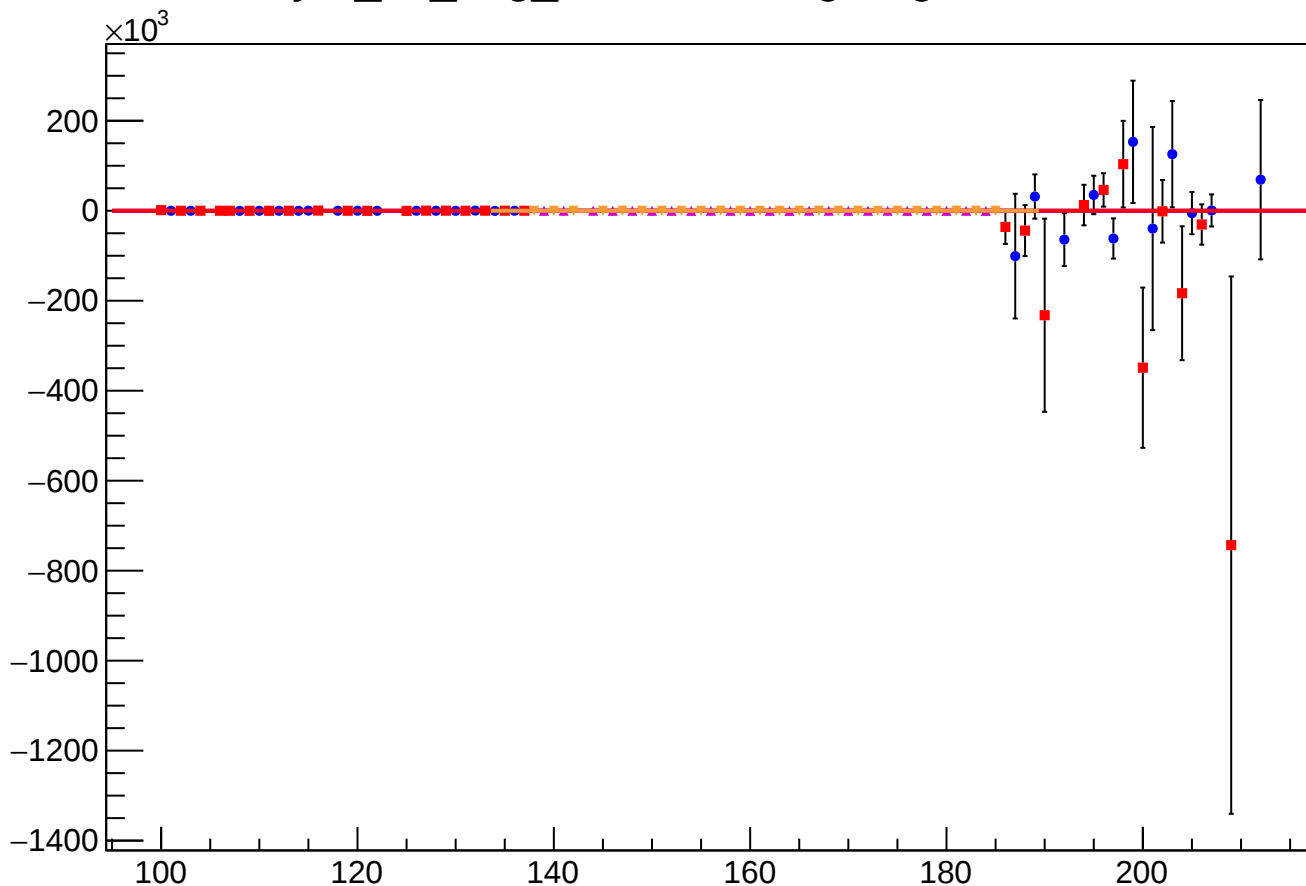
Right: 1.204+/-0.000 χ^2/NDF : 12854923.3/59

In: 1.341+/-0.000 χ^2/NDF : 7641725.2/51

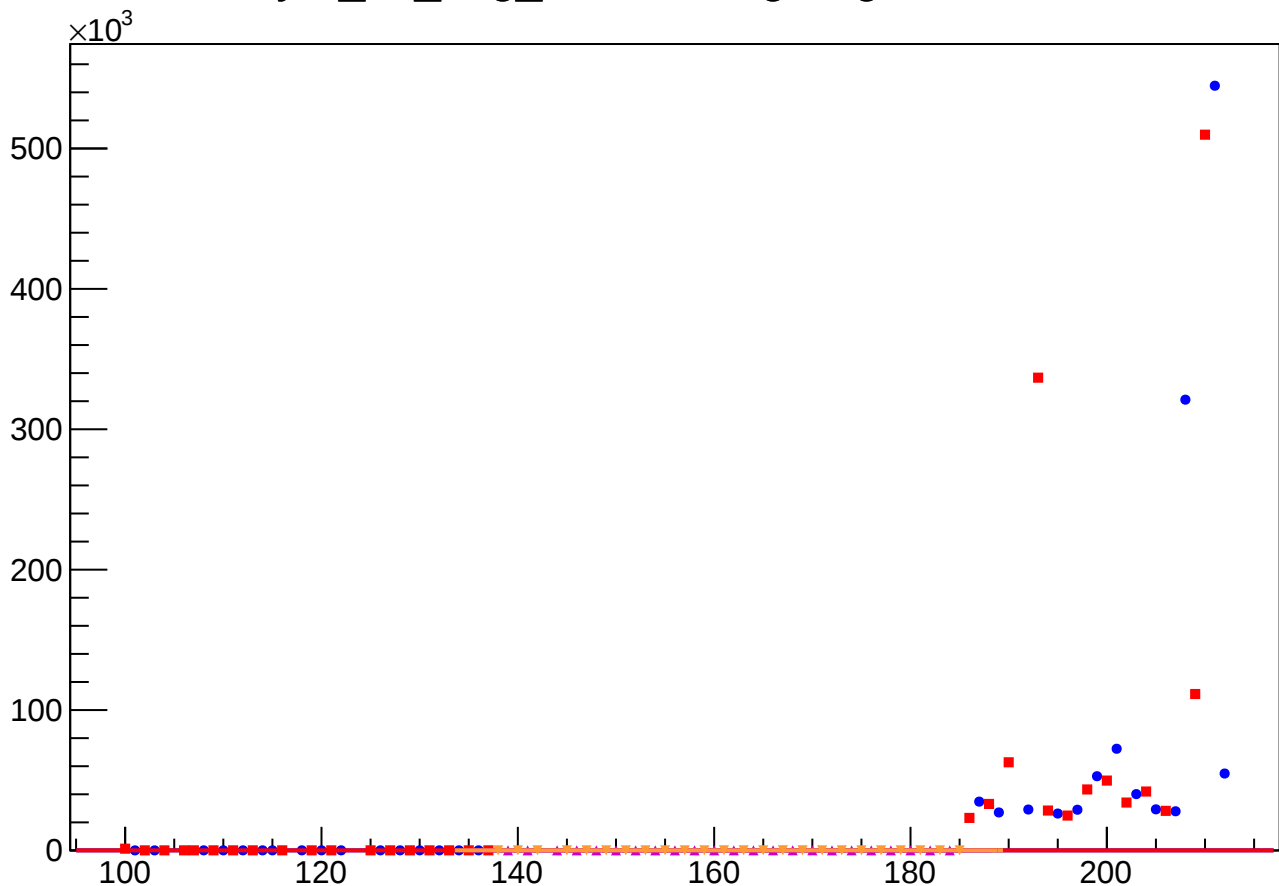
Out: 1.358+/-0.000 χ^2/NDF : 7706566.5/54

All: 1.350+/-0.000 χ^2/NDF : 15351253.1/106

asym_ds_avg_mean vs Slug, Sign Corrected



asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.160 $\pm$ 0.021 χ^2 /NDF: 6491879.7/28

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

Right Out: 79.459 $\pm$ 0.022 χ^2 /NDF: 6010217.2/30

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

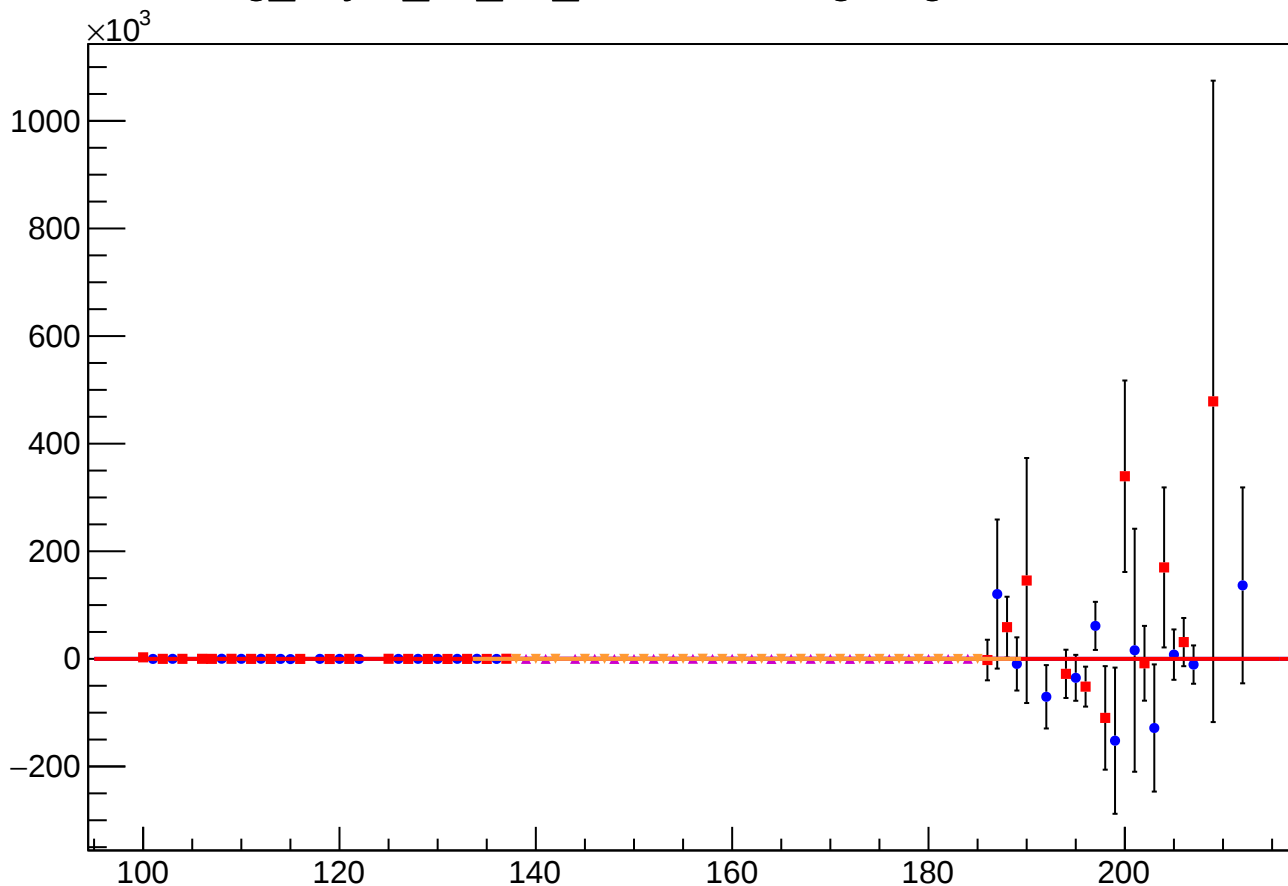
Right: 77.785 $\pm$ 0.015 χ^2 /NDF: 12513974.4/59

In: 85.037 $\pm$ 0.012 χ^2 /NDF: 7266110.9/51

Out: 86.319 $\pm$ 0.012 χ^2 /NDF: 6628545.9/54

All: 85.677 $\pm$ 0.009 χ^2 /NDF: 13899995.9/106

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.091 ± 30.012 $\chi^2/\text{NDF}: 21.9/26$

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

Right Out: -25.783 ± 30.473 $\chi^2/\text{NDF}: 24.0/28$

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

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

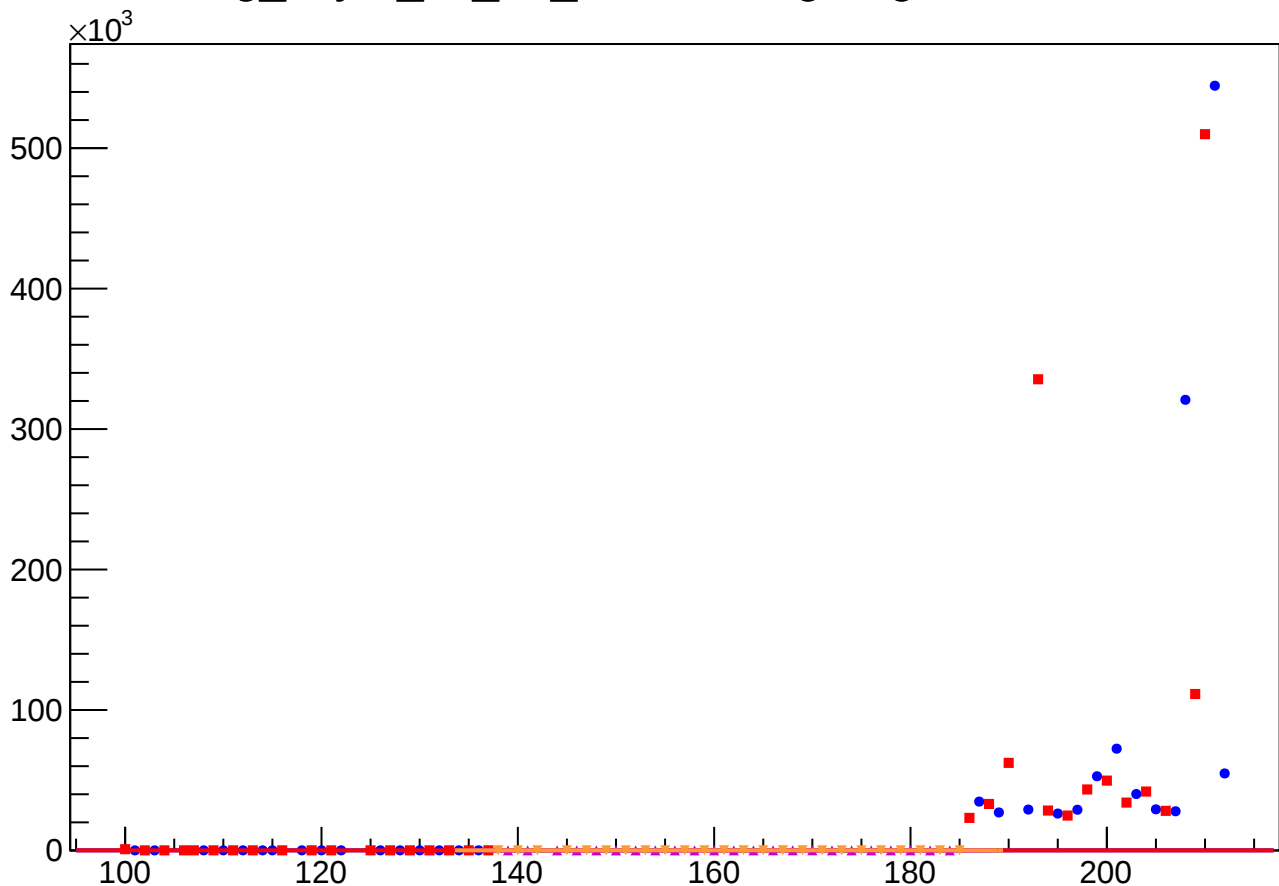
Right: -8.588 ± 21.383 $\chi^2/\text{NDF}: 46.5/55$

In: 31.372 ± 17.528 $\chi^2/\text{NDF}: 54.3/49$

Out: 1.652 ± 17.552 $\chi^2/\text{NDF}: 42.4/52$

All: 16.533 ± 12.403 $\chi^2/\text{NDF}: 98.1/102$

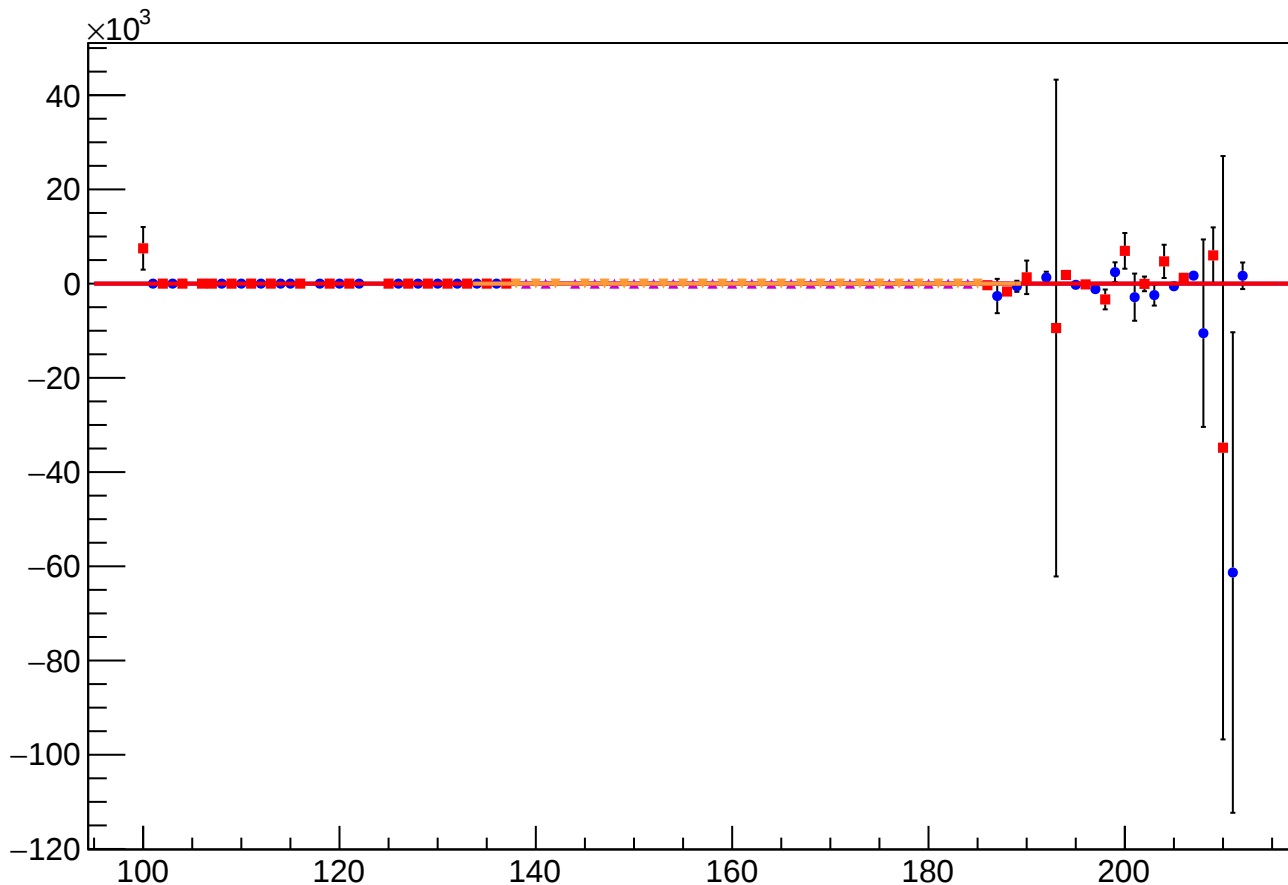
reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.091+/-0.021 χ^2 /NDF: 6491156.6/28
 Left Out: 89.712+/-0.015 χ^2 /NDF:465096.2/23
 Right Out: 79.407+/-0.022 χ^2 /NDF: 6002912.8/30
 Left In: 89.628+/-0.015 χ^2 /NDF:511042.3/22

Left: 89.670+/-0.011 χ^2 /NDF: 976153.9/46
 Right: 77.724+/-0.015 χ^2 /NDF: 12506092.9/59
 In: 85.010+/-0.012 χ^2 /NDF:7270293.7/51
 Out: 86.293+/-0.012 χ^2 /NDF:6620838.7/54
 All: 85.651+/-0.009 χ^2 /NDF: 13896479.6/106

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.893 ± 0.531 $\chi^2/\text{NDF}: 27.5/28$

Left Out: -0.516 ± 0.391 $\chi^2/\text{NDF}: 20.7/23$

Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 32.0/30$

Left In: -0.072 ± 0.390 $\chi^2/\text{NDF}: 20.4/22$

Left: -0.293 ± 0.276 $\chi^2/\text{NDF}: 41.7/46$

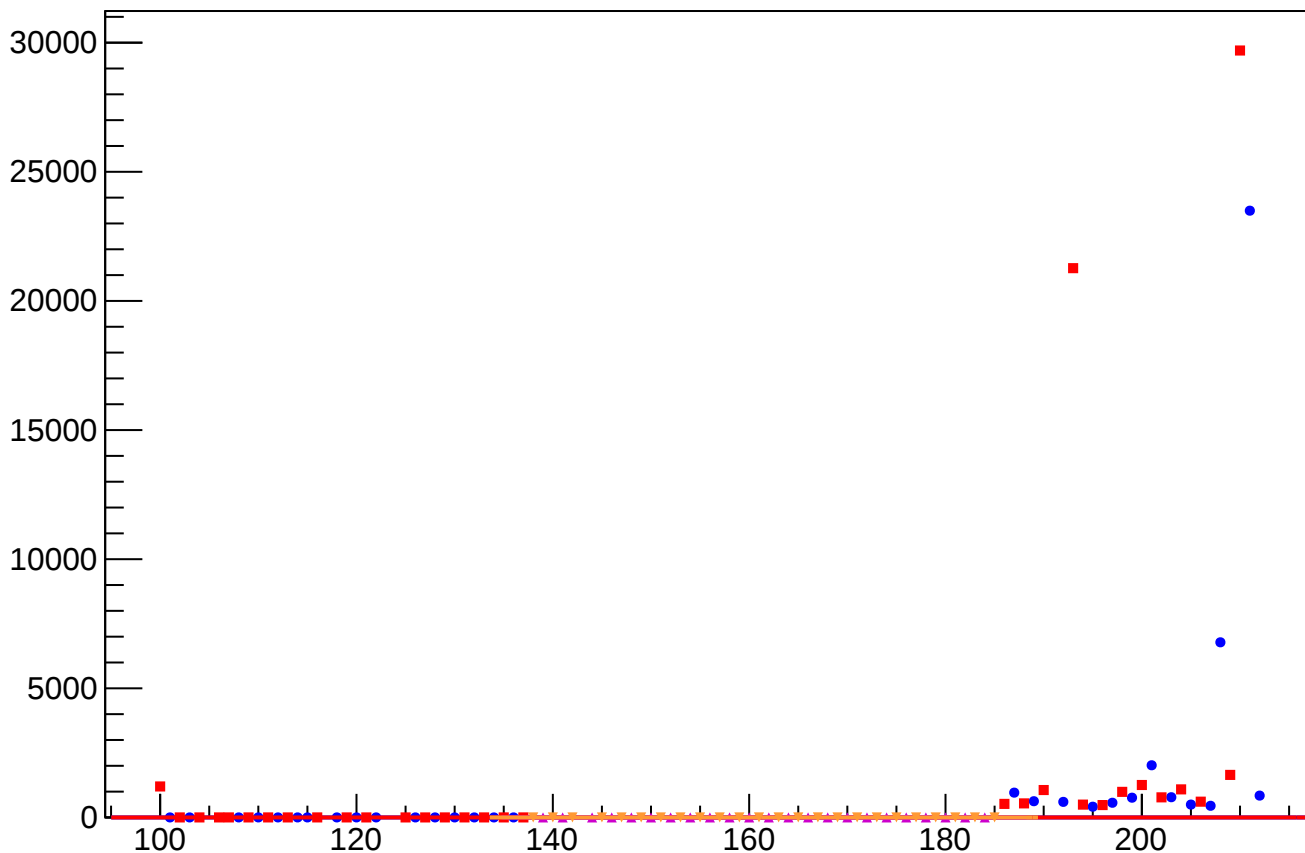
Right: 0.629 ± 0.382 $\chi^2/\text{NDF}: 60.0/59$

In: 0.267 ± 0.315 $\chi^2/\text{NDF}: 50.0/51$

Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 54.4/54$

All: 0.024 ± 0.224 $\chi^2/\text{NDF}: 105.6/106$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 6444615.4/28

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

Right Out: 1.317+/-0.000 χ^2/NDF : 6536310.6/30

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

Left: 1.466+/-0.000 χ^2/NDF : 2203936.9/46

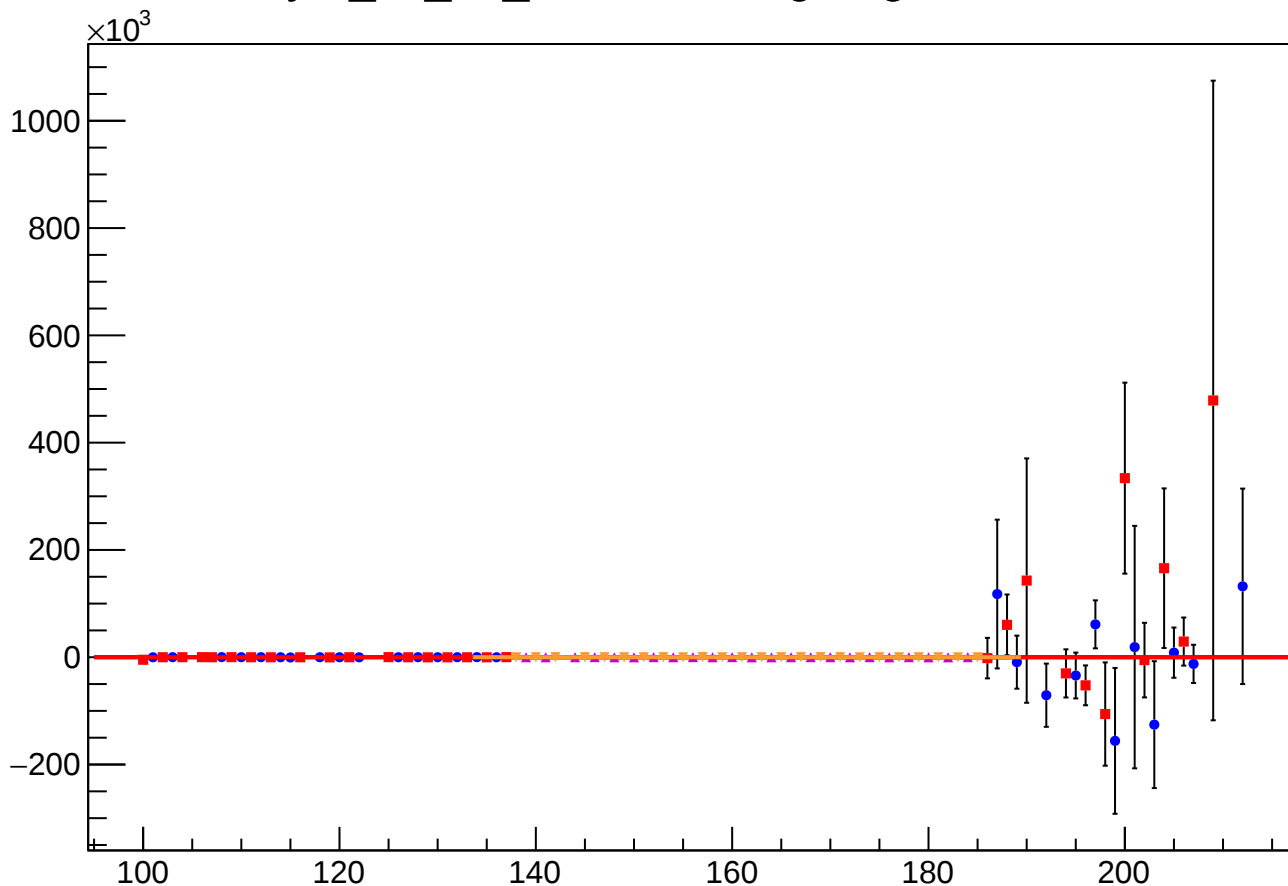
Right: 1.274+/-0.000 χ^2/NDF : 13004088.1/59

In: 1.382+/-0.000 χ^2/NDF :7729629.0/51

Out: 1.418+/-0.000 χ^2/NDF :7795242.7/54

All: 1.400+/-0.000 χ^2/NDF : 15538493.3/106

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.383+/-30.020 χ^2 /NDF: 21.8/26

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

Right Out: -26.394+/-30.482 χ^2 /NDF: 24.0/28

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

Left: 29.758+/-15.231 χ^2 /NDF: 49.0/46

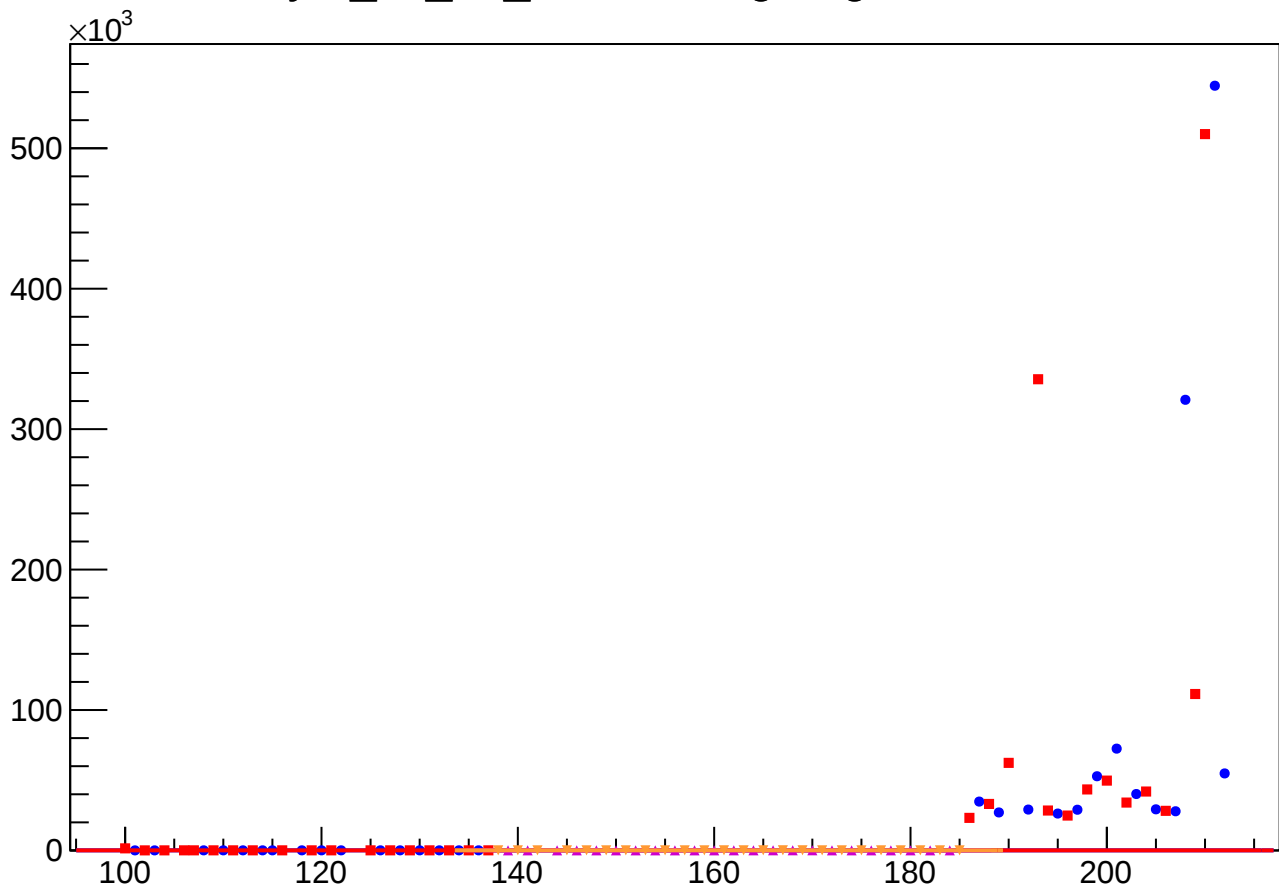
Right: -9.248+/-21.389 χ^2 /NDF: 46.4/55

In: 31.447+/-17.533 χ^2 /NDF:53.8/49

Out: 1.780+/-17.558 χ^2 /NDF:42.3/52

All: 16.635+/-12.407 χ^2 /NDF: 97.6/102

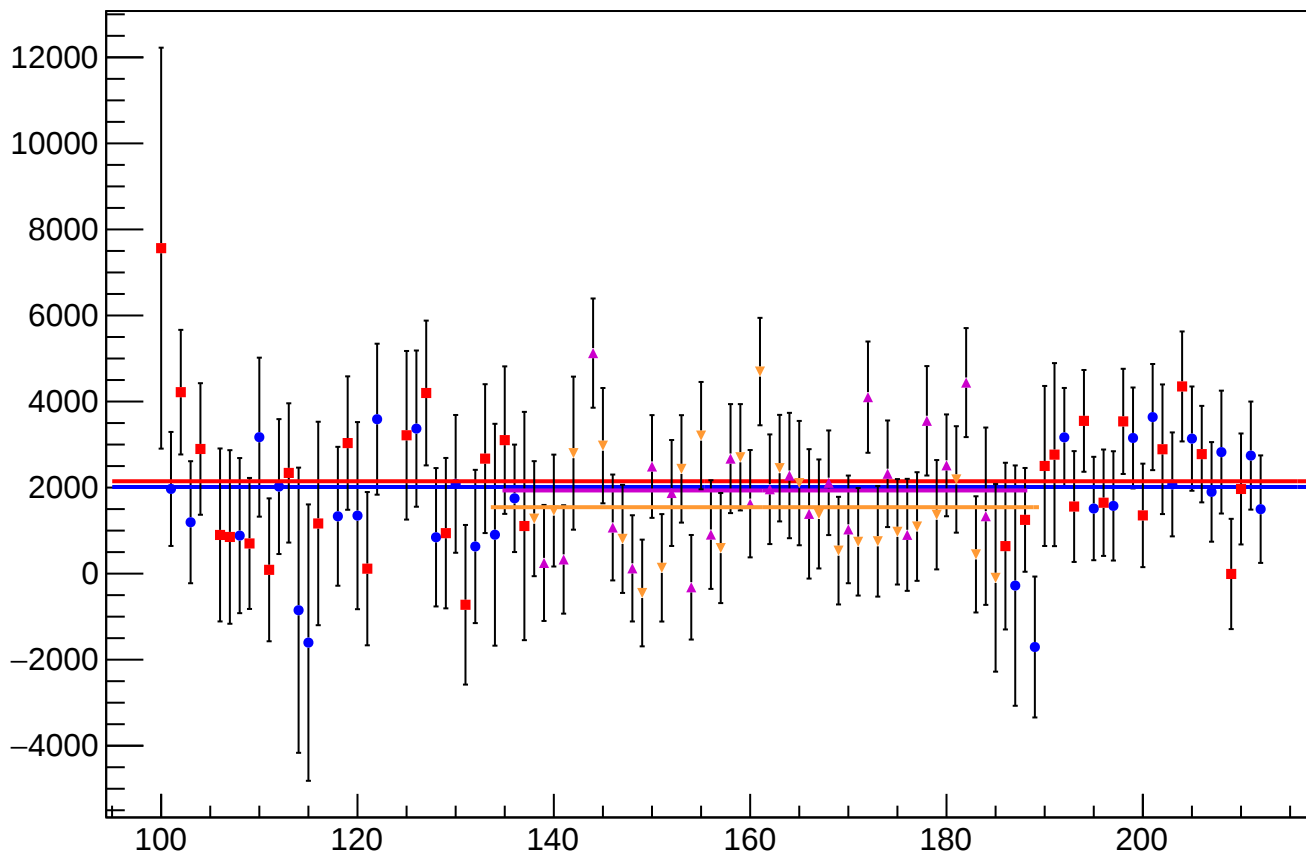
asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.111 $\pm$ 0.021 χ^2 /NDF: 6491310.6/28
 Left Out: 89.740 $\pm$ 0.015 χ^2 /NDF: 465842.6/23
 Right Out: 79.404 $\pm$ 0.022 χ^2 /NDF: 6012232.3/30
 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: 77.733 $\pm$ 0.015 χ^2 /NDF: 12515387.1/59
 In: 85.035 $\pm$ 0.012 χ^2 /NDF: 7271350.1/51
 Out: 86.310 $\pm$ 0.012 χ^2 /NDF: 6631730.0/54
 All: 85.672 $\pm$ 0.009 χ^2 /NDF: 13908364.4/106

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 2013.815 $\pm$ 275.206 χ^2 /NDF: 17.7/28

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

Right Out: 2146.985 $\pm$ 272.849 χ^2 /NDF: 25.1/31

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

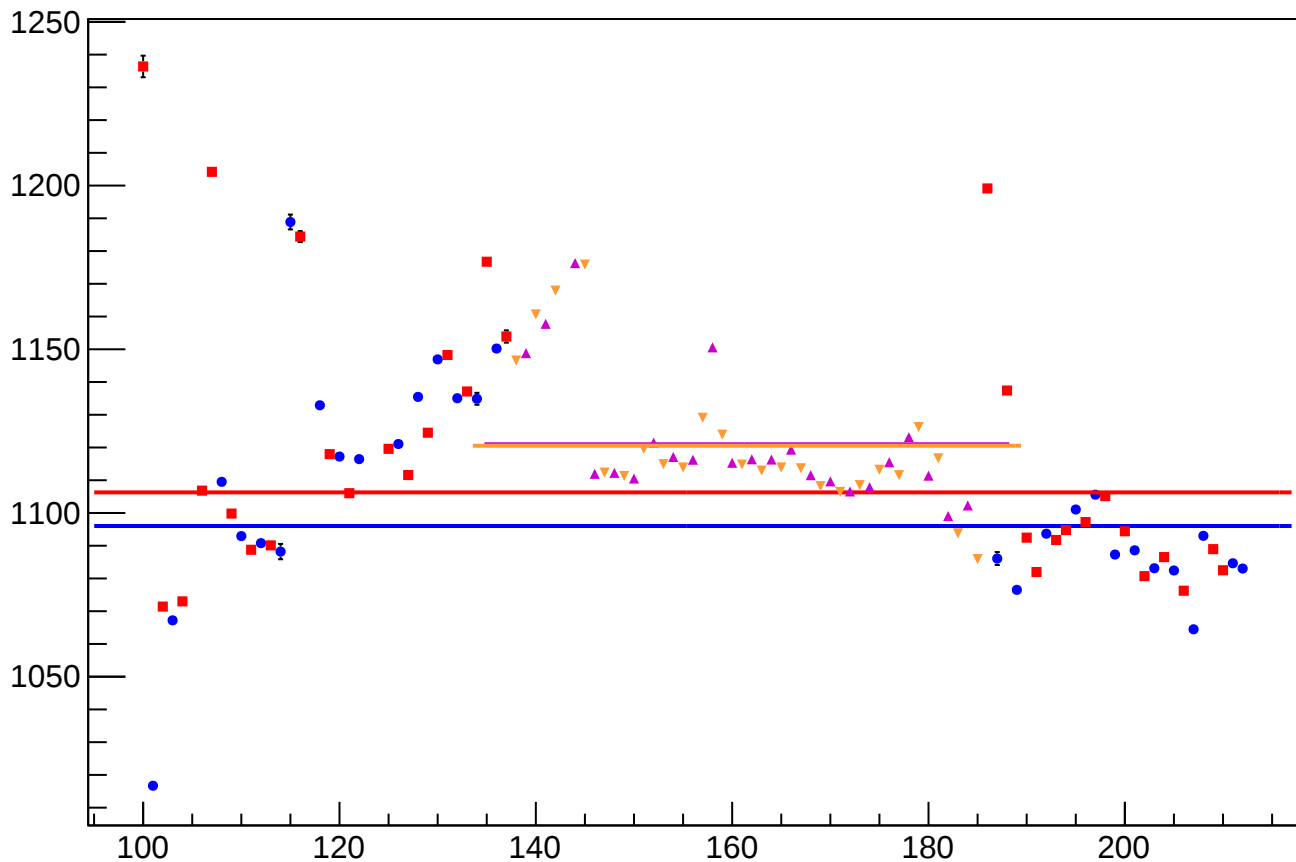
Right: 2080.972 $\pm$ 193.761 χ^2 /NDF: 42.8/60

In: 1972.336 $\pm$ 192.004 χ^2 /NDF:44.7/51

Out: 1838.187 $\pm$ 190.565 χ^2 /NDF:47.6/55

All: 1904.757 $\pm$ 135.256 χ^2 /NDF: 92.5/107

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1096.023+/-0.195 χ^2/NDF : 23110.0/28

Left Out: 1120.543+/-0.188 χ^2/NDF : 10252.7/23

Right Out: 1106.292+/-0.193 χ^2/NDF : 27721.6/31

Left In: 1120.991+/-0.190 χ^2/NDF : 9641.8/22

Left: 1120.765+/-0.134 χ^2/NDF : 19897.3/46

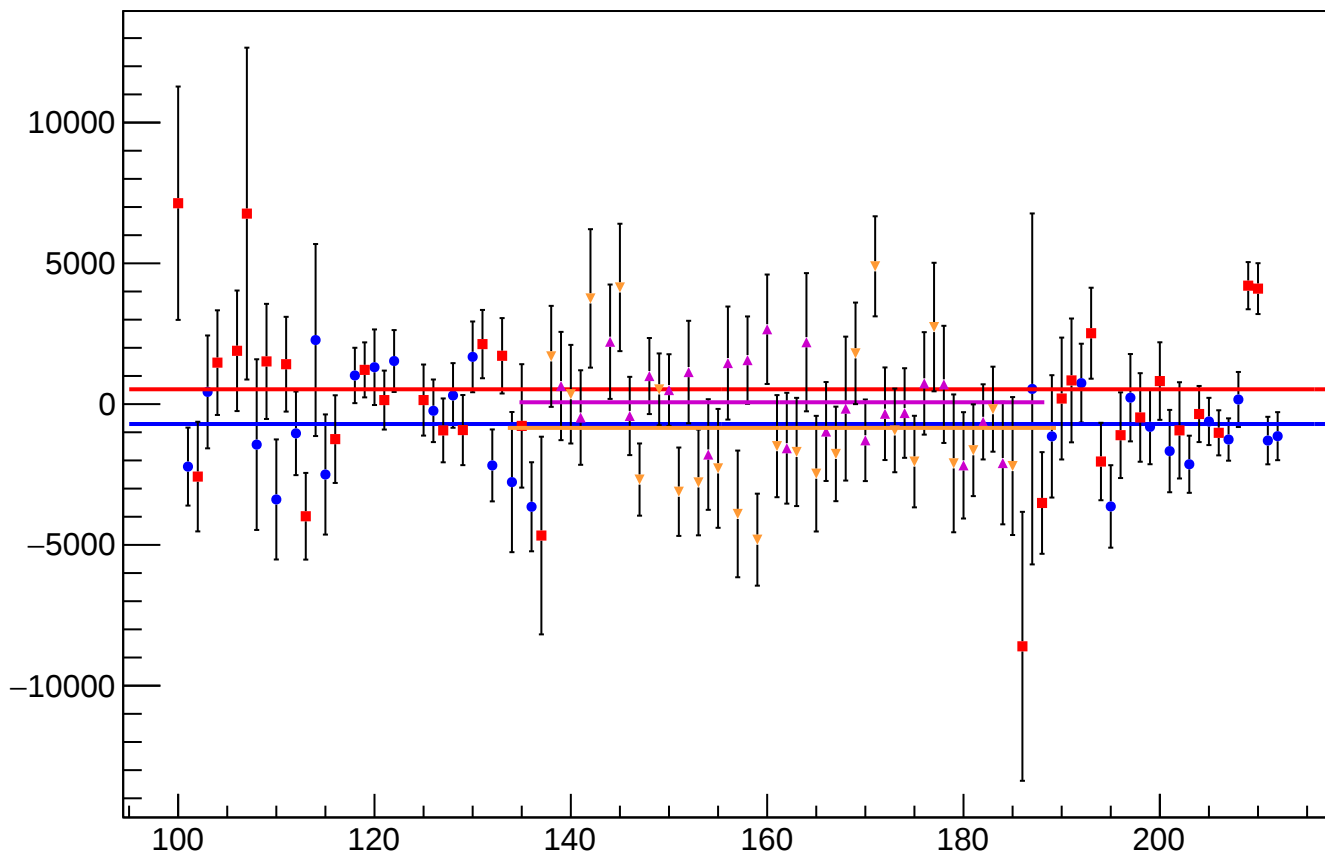
Right: 1101.202+/-0.137 χ^2/NDF : 52236.1/60

In: 1108.838+/-0.136 χ^2/NDF : 41200.8/51

Out: 1113.592+/-0.135 χ^2/NDF : 40768.7/55

All: 1111.233+/-0.096 χ^2/NDF : 82587.1/107

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -706.281 ± 233.738 $\chi^2/\text{NDF}: 34.2/28$

Left Out: -845.009 ± 361.141 $\chi^2/\text{NDF}: 43.2/23$

Right Out: 526.987 ± 246.737 $\chi^2/\text{NDF}: 81.6/31$

Left In: 65.738 ± 358.785 $\chi^2/\text{NDF}: 12.1/22$

Left: -386.655 ± 254.528 $\chi^2/\text{NDF}: 58.6/46$

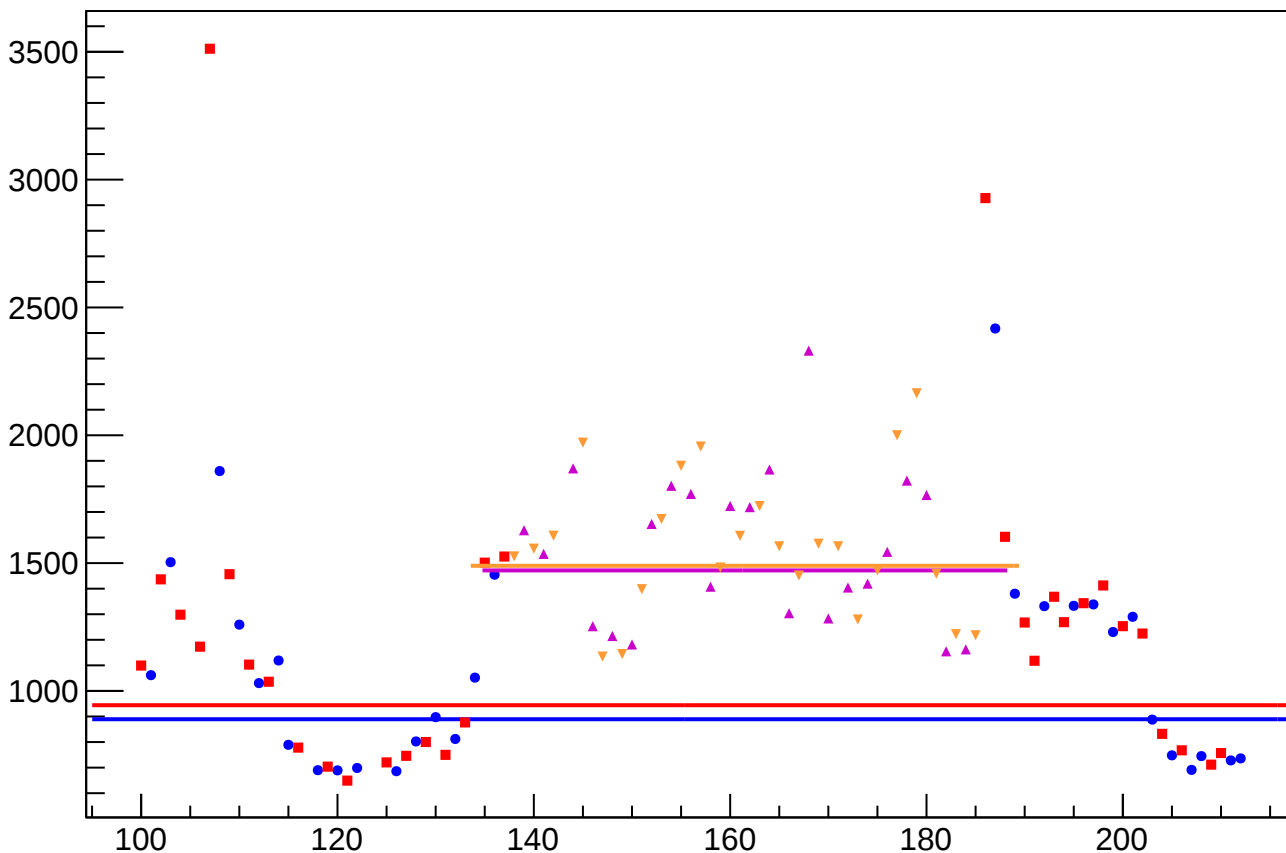
Right: -122.989 ± 169.687 $\chi^2/\text{NDF}: 128.9/60$

In: -476.253 ± 195.844 $\chi^2/\text{NDF}: 49.6/51$

Out: 90.368 ± 203.728 $\chi^2/\text{NDF}: 134.6/55$

All: -204.118 ± 141.188 $\chi^2/\text{NDF}: 188.2/107$

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 889.279+/-0.165 χ^2/NDF : 2484890.0/28

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

Right Out: 944.143+/-0.174 χ^2/NDF : 3199473.5/31

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

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

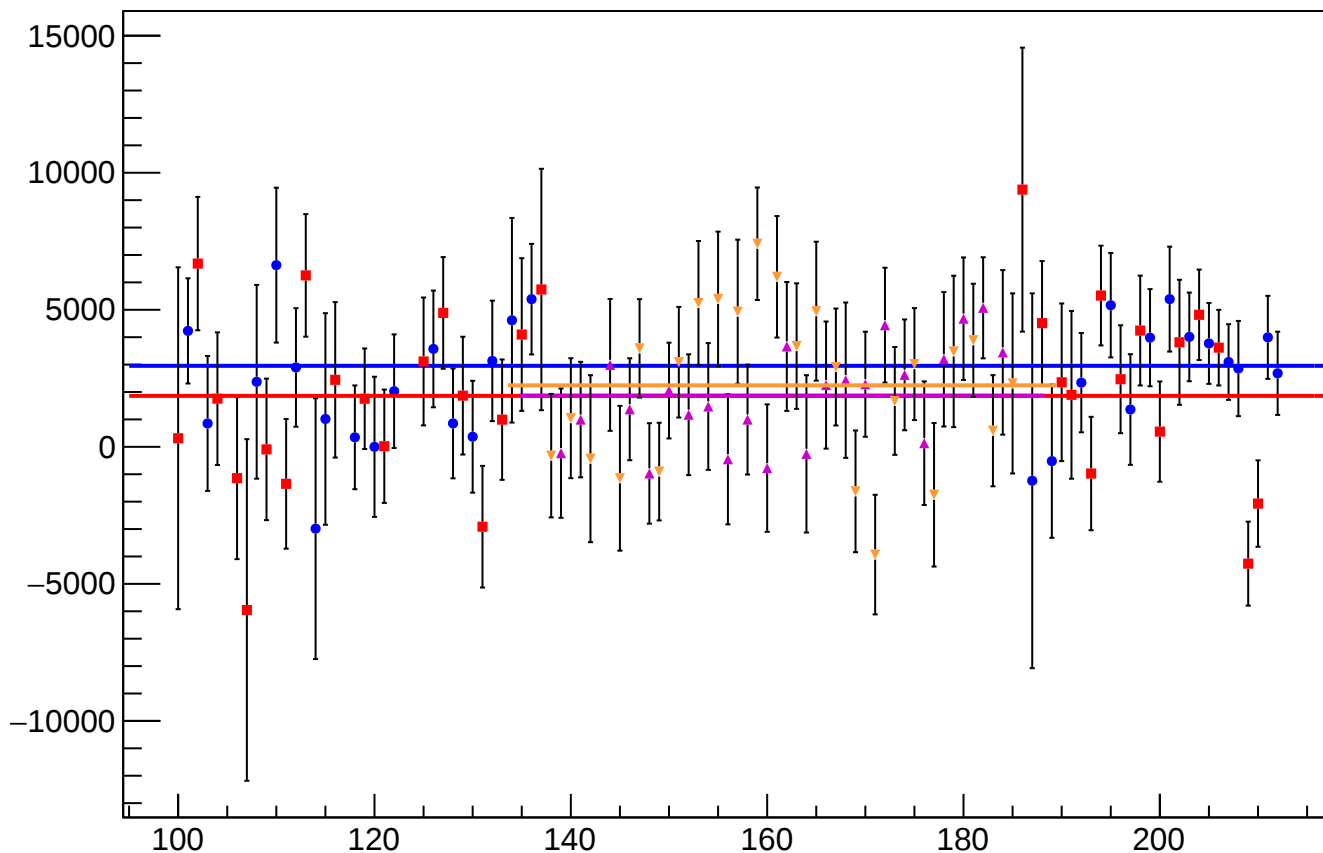
Right: 915.228+/-0.120 χ^2/NDF : 5736479.5/60

In: 1062.724+/-0.138 χ^2/NDF : 7286280.9/51

Out: 1117.698+/-0.144 χ^2/NDF : 7318153.7/55

All: 1089.126+/-0.100 χ^2/NDF : 14680119.7/106

asym_usl_mean vs Slug, Sign Corrected



Right In: 2955.752 $\pm$ 377.968 χ^2 /NDF: 19.8/28

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

Right Out: 1859.436 $\pm$ 388.143 χ^2 /NDF: 61.6/31

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

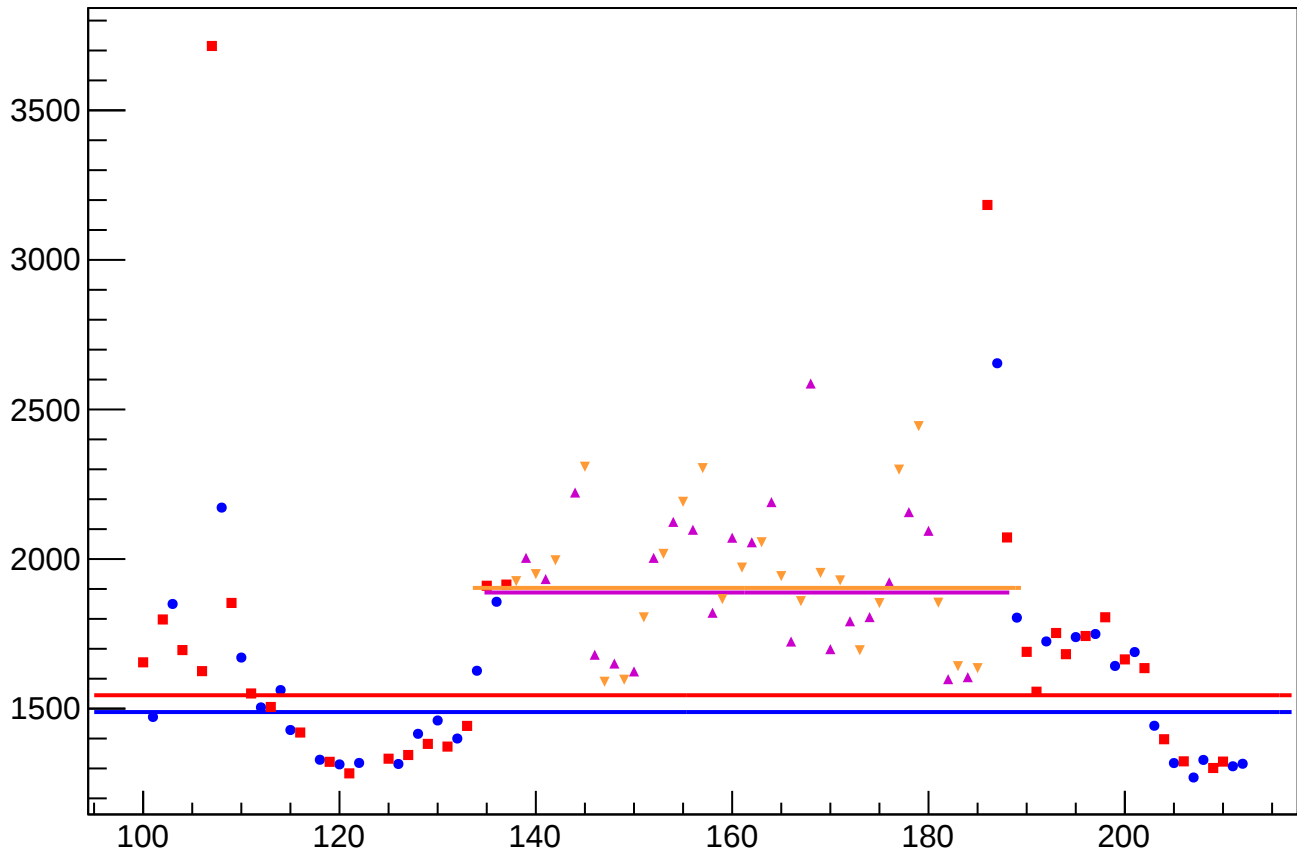
Right: 2422.152 $\pm$ 270.790 χ^2 /NDF: 85.5/60

In: 2512.884 $\pm$ 290.861 χ^2 /NDF:38.0/51

Out: 2020.983 $\pm$ 295.697 χ^2 /NDF:100.6/55

All: 2270.989 $\pm$ 207.358 χ^2 /NDF: 140.1/107

asym_usl_rms vs Slug, Sign Corrected



Right In: 1488.529+/-0.267 χ^2/NDF : 626229.6/28

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

Right Out: 1544.742+/-0.274 χ^2/NDF : 1049162.2/31

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

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

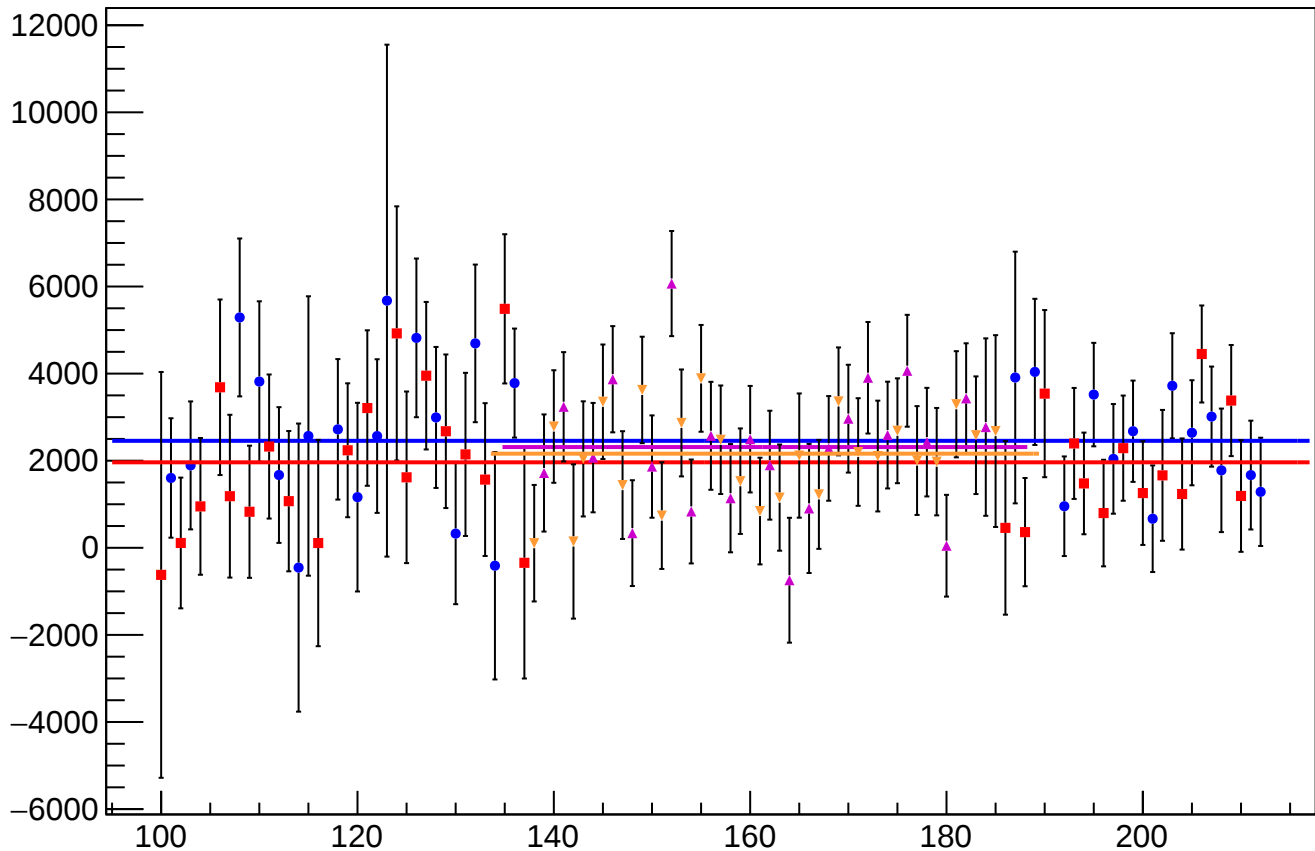
Right: 1515.889+/-0.191 χ^2/NDF : 1696923.3/60

In: 1651.488+/-0.206 χ^2/NDF : 2042417.9/51

Out: 1695.319+/-0.209 χ^2/NDF : 2228257.2/55

All: 1673.042+/-0.147 χ^2/NDF : 4293010.3/10

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2456.668 $\pm$ 275.280 χ^2 /NDF: 21.4/29

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

Right Out: 1962.824 $\pm$ 273.894 χ^2 /NDF: 24.3/31

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

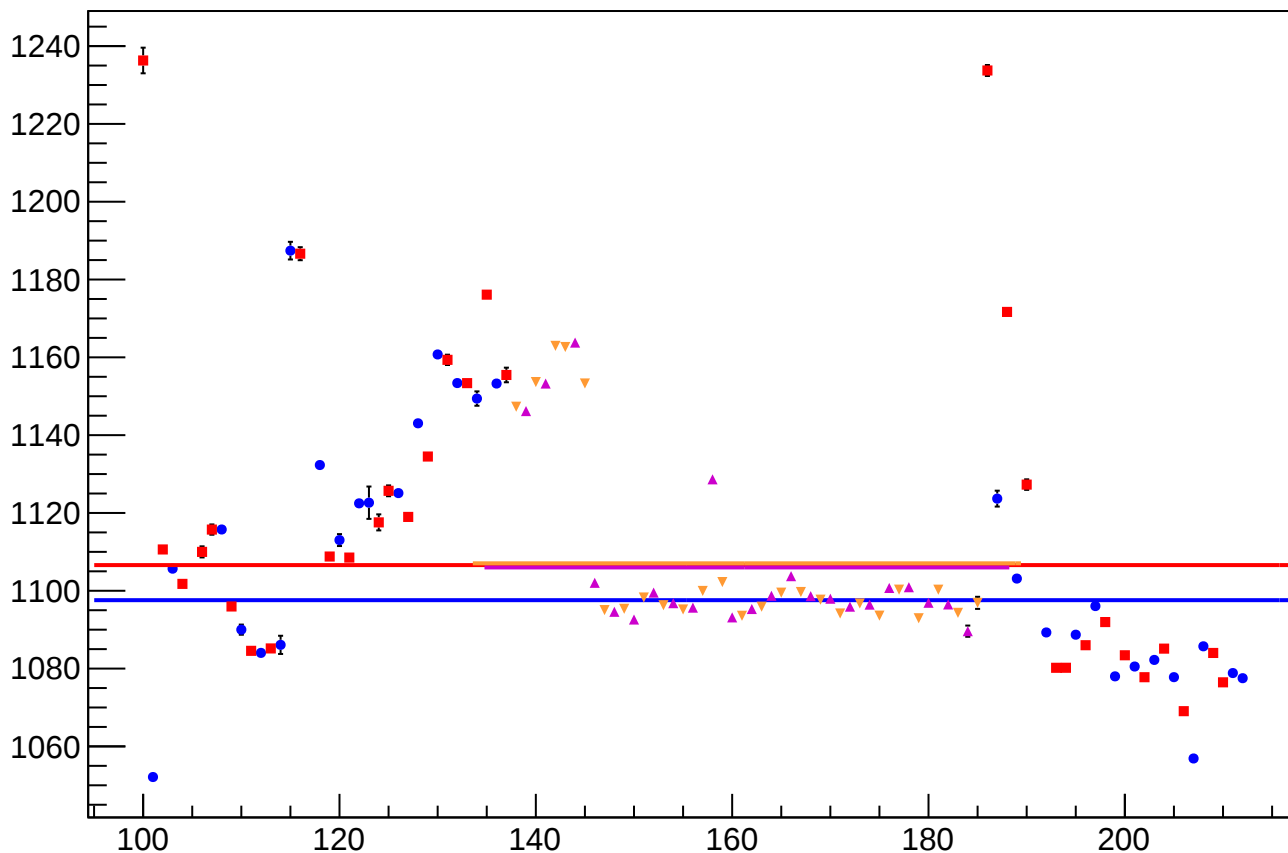
Right: 2208.499 $\pm$ 194.161 χ^2 /NDF: 47.4/61

In: 2382.209 $\pm$ 190.700 χ^2 /NDF:52.8/52

Out: 2068.240 $\pm$ 187.615 χ^2 /NDF:39.7/56

All: 2222.664 $\pm$ 133.741 χ^2 /NDF: 93.9/109

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1097.583 $\pm$ 0.195 χ^2 /NDF: 23256.1/29

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

Right Out: 1106.601 $\pm$ 0.194 χ^2 /NDF: 35189.9/31

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

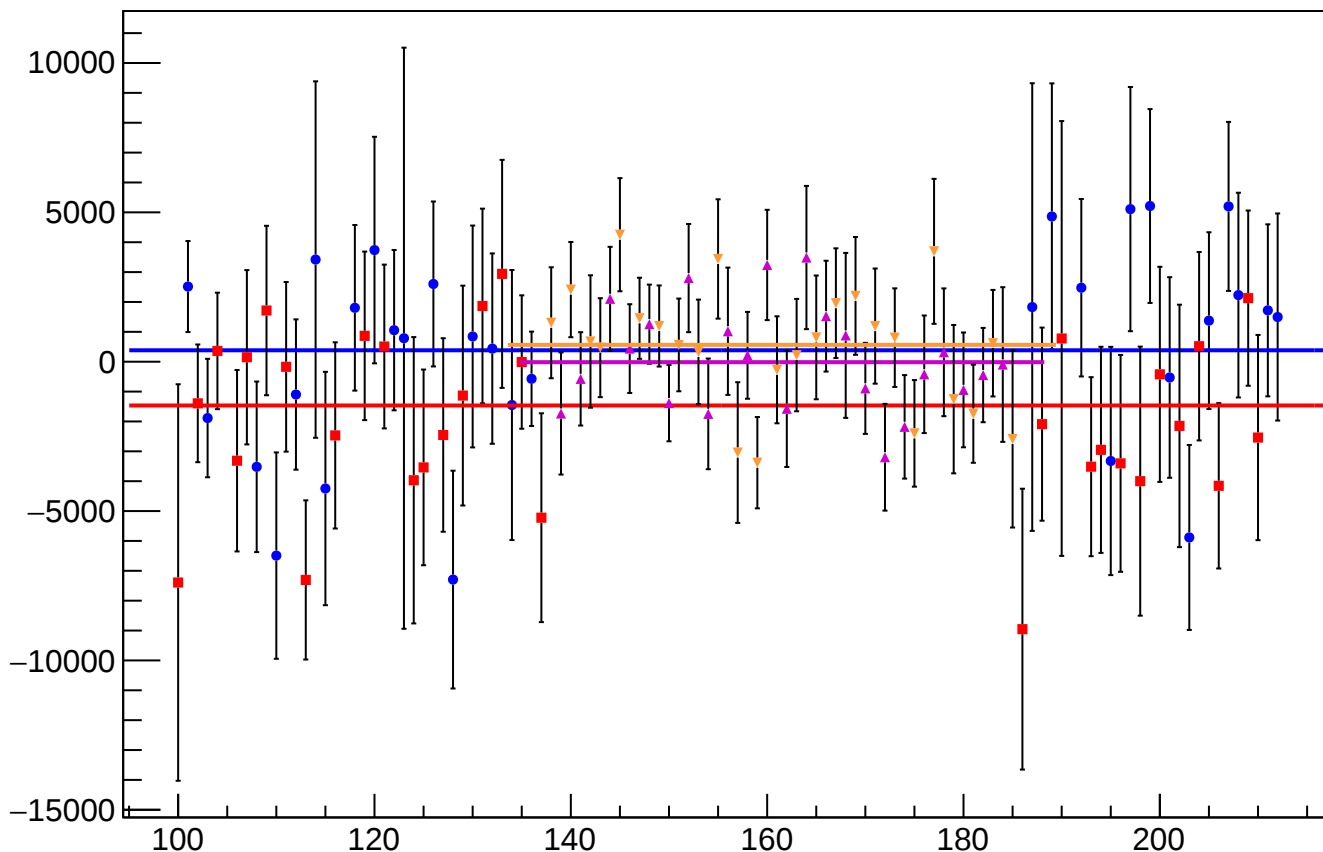
Right: 1102.115 $\pm$ 0.137 χ^2 /NDF: 59524.4/61

In: 1101.959 $\pm$ 0.135 χ^2 /NDF:35779.0/52

Out: 1106.843 $\pm$ 0.133 χ^2 /NDF:50368.4/56

All: 1104.441 $\pm$ 0.095 χ^2 /NDF: 86814.0/109

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 382.710 ± 538.741 $\chi^2/\text{NDF}: 31.7/29$

Left Out: 563.282 ± 360.901 $\chi^2/\text{NDF}: 26.8/24$

Right Out: -1465.297 ± 548.706 $\chi^2/\text{NDF}: 21.6/31$

Left In: -15.520 ± 366.854 $\chi^2/\text{NDF}: 20.1/22$

Left: 278.615 ± 257.275 $\chi^2/\text{NDF}: 48.2/47$

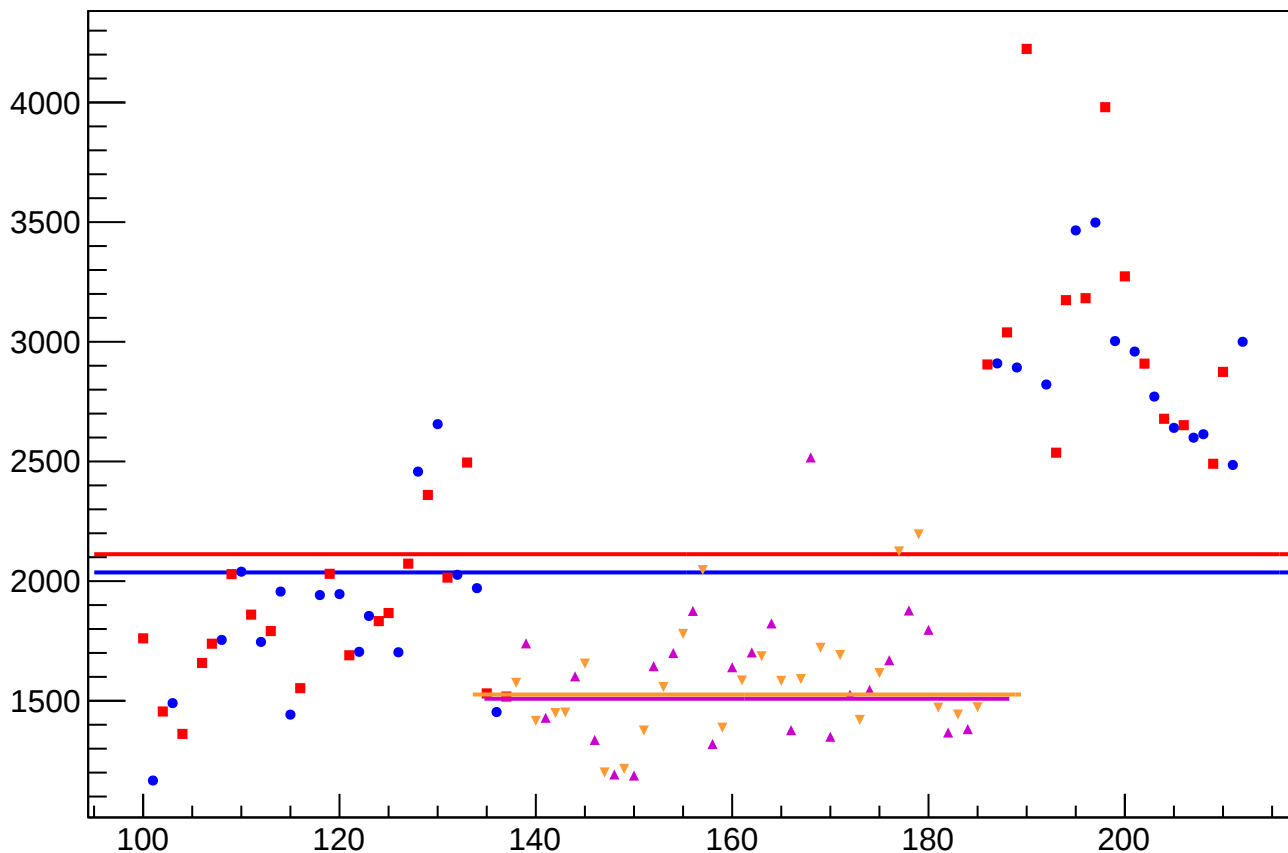
Right: -524.360 ± 384.422 $\chi^2/\text{NDF}: 59.1/61$

In: 110.637 ± 303.228 $\chi^2/\text{NDF}: 52.2/52$

Out: -49.295 ± 301.526 $\chi^2/\text{NDF}: 57.9/56$

All: 30.221 ± 213.810 $\chi^2/\text{NDF}: 110.3/109$

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 2036.362 $\pm$ 0.381 χ^2 /NDF: 2955429.7/29

Left Out: 1526.391 $\pm$ 0.255 χ^2 /NDF: 753714.4/24

Right Out: 2112.525 $\pm$ 0.388 χ^2 /NDF: 2698656.0/31

Left In: 1508.581 $\pm$ 0.259 χ^2 /NDF: 931684.8/22

Left: 1517.632 $\pm$ 0.182 χ^2 /NDF: 1687794.7/47

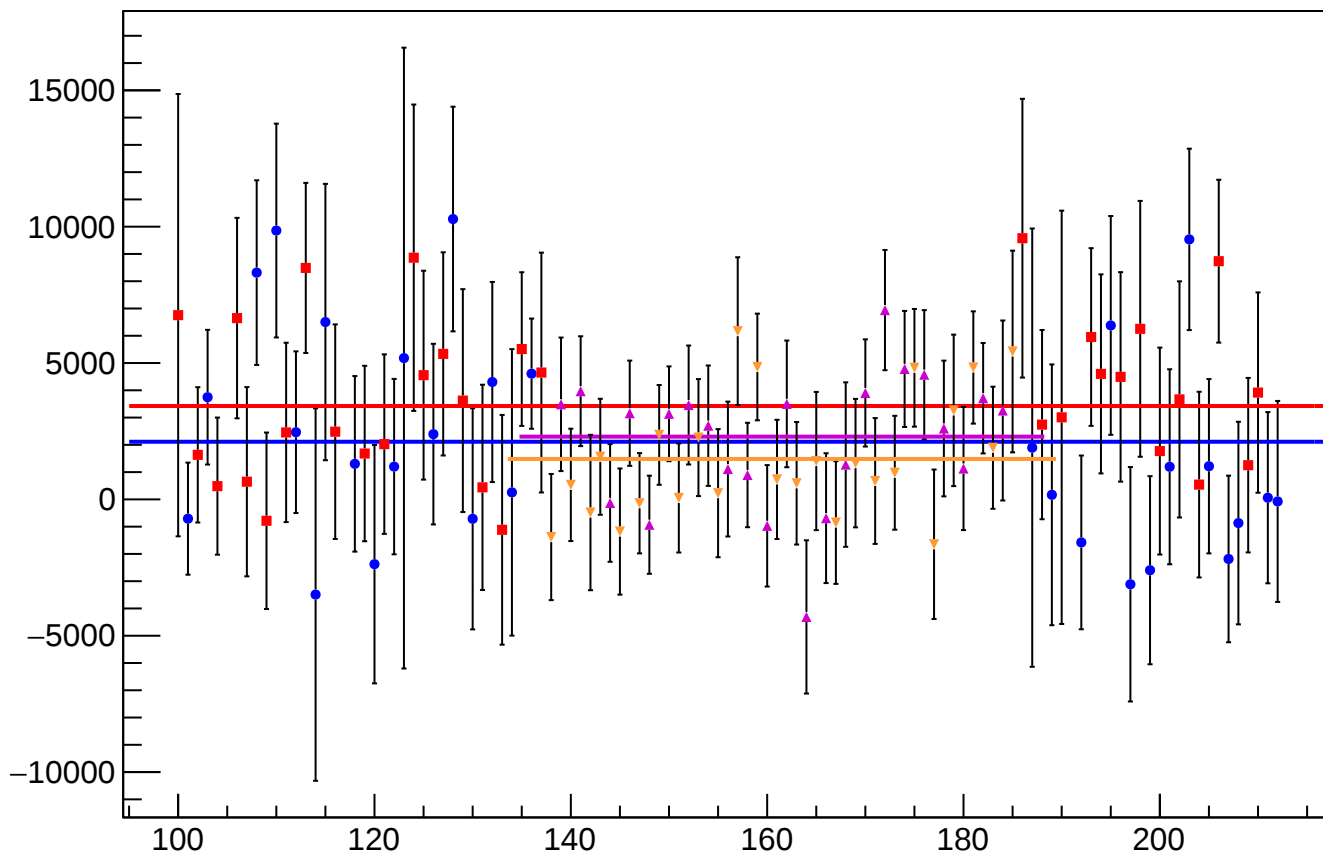
Right: 2073.745 $\pm$ 0.272 χ^2 /NDF: 5673705.3/61

In: 1675.779 $\pm$ 0.214 χ^2 /NDF: 5198493.3/52

Out: 1703.388 $\pm$ 0.213 χ^2 /NDF: 5045366.8/56

All: 1689.661 $\pm$ 0.151 χ^2 /NDF: 10252196.8/1

asym_usr_mean vs Slug, Sign Corrected



Right In: 2113.158+/-629.162 χ^2/NDF : 33.2/29

Left Out: 1482.365+/-449.983 χ^2/NDF : 20.9/24

Right Out: 3424.788+/-633.984 χ^2/NDF : 19.3/31

Left In: 2301.247+/-459.040 χ^2/NDF : 24.8/22

Left: 1883.648+/-321.340 χ^2/NDF : 47.4/47

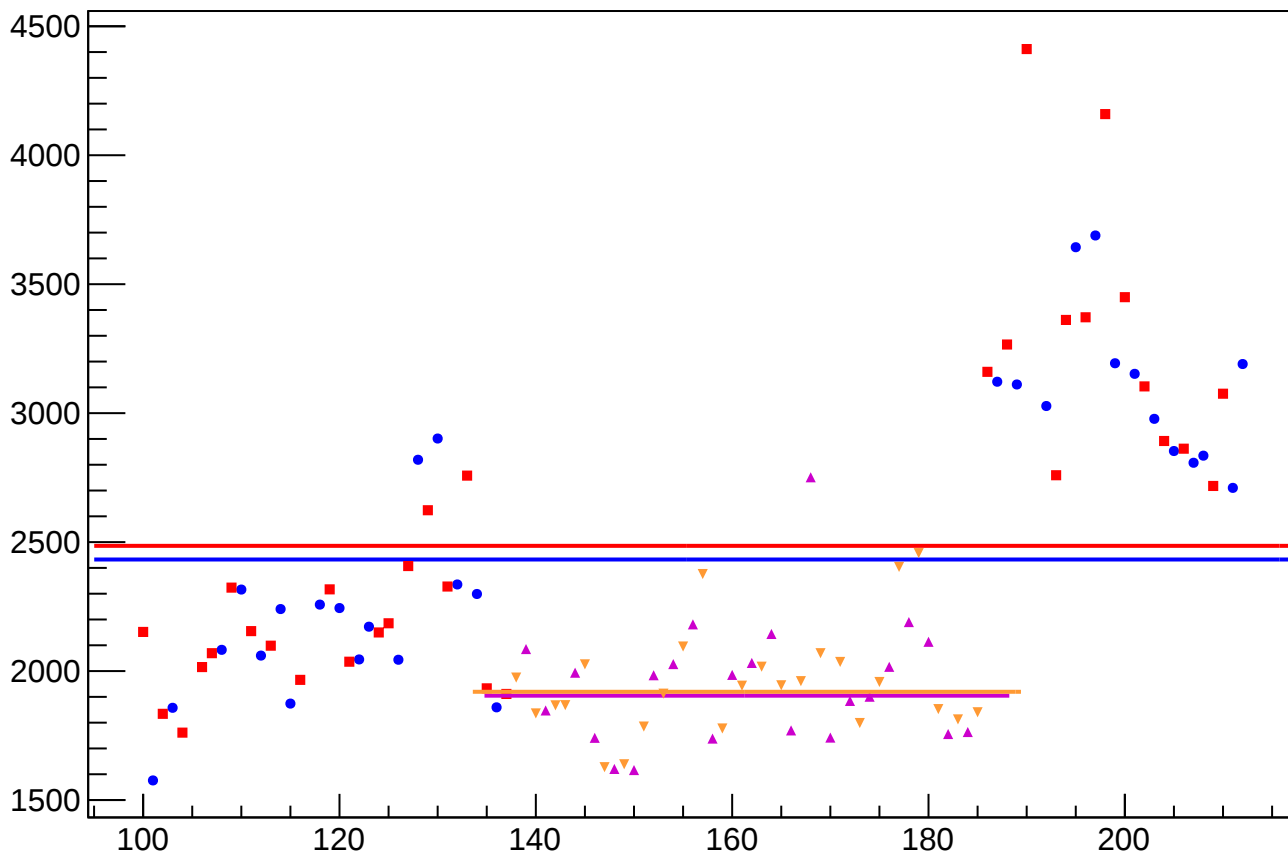
Right: 2763.966+/-446.580 χ^2/NDF : 54.7/61

In: 2235.906+/-370.830 χ^2/NDF : 58.1/52

Out: 2133.089+/-366.948 χ^2/NDF : 46.5/56

All: 2183.957+/-260.833 χ^2/NDF : 104.6/109

asym_usr_rms vs Slug, Sign Corrected



Right In: 2432.584 $\pm$ 0.445

χ^2/NDF : 1710384.9/29

Left: 1912.331 $\pm$ 0.227

χ^2/NDF : 814672.9/47

Left Out: 1919.732 $\pm$ 0.318

χ^2/NDF : 366218.1/24

Right: 2458.867 $\pm$ 0.316

χ^2/NDF : 3413228.8/61

Right Out: 2485.555 $\pm$ 0.448

χ^2/NDF : 1695809.4/31

In: 2088.038 $\pm$ 0.262

χ^2/NDF : 3076805.4/52

Out: 2109.286 $\pm$ 0.259

χ^2/NDF : 3121409.7/56

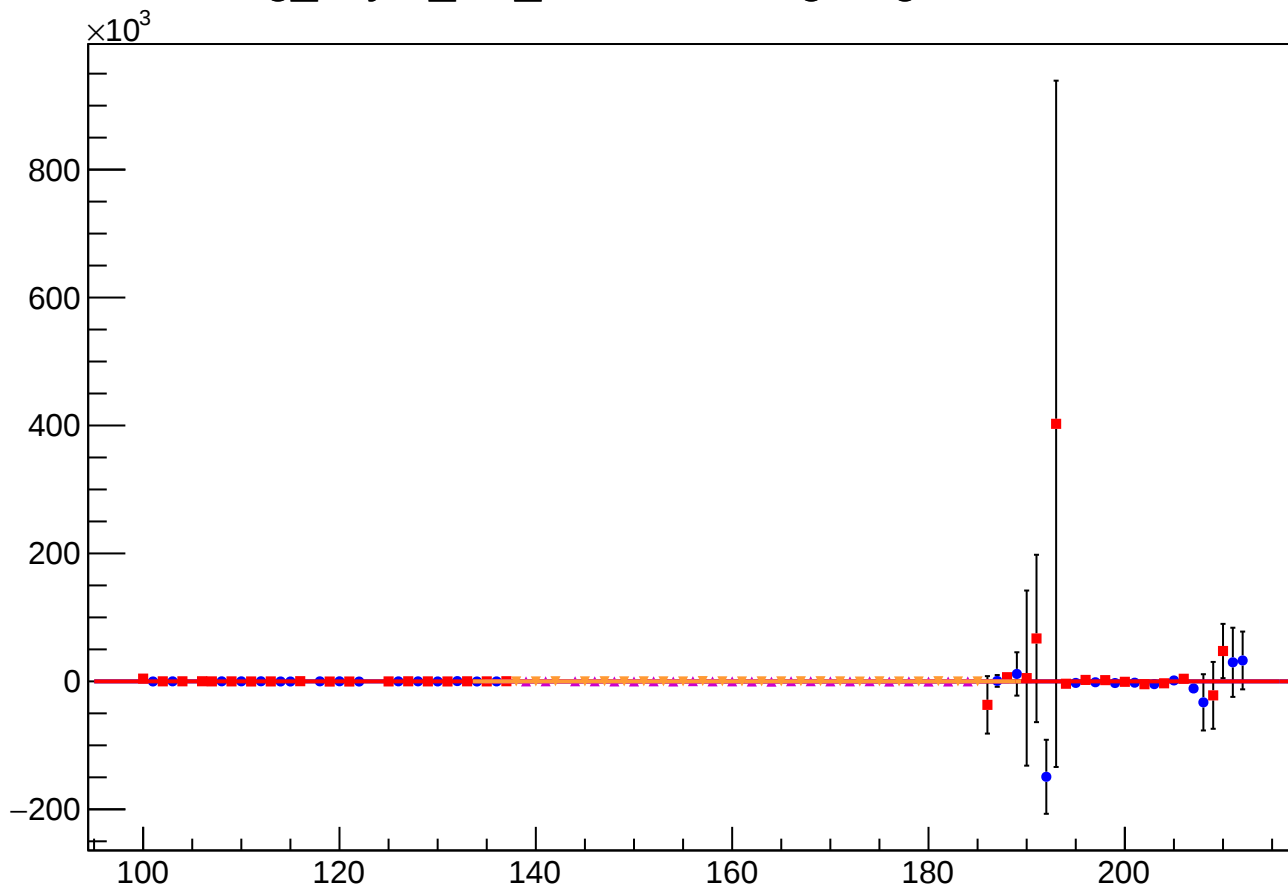
Left In: 1904.629 $\pm$ 0.325

χ^2/NDF : 447350.7/22

All: 2098.774 $\pm$ 0.184

χ^2/NDF : 6201532.7/10

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.343 ± 36.762 $\chi^2/\text{NDF}: 32.8/28$

Left Out: 12.260 ± 26.260 $\chi^2/\text{NDF}: 35.9/23$

Right Out: 1.855 ± 36.747 $\chi^2/\text{NDF}: 20.9/31$

Left In: 24.786 ± 26.343 $\chi^2/\text{NDF}: 36.4/22$

Left: 18.503 ± 18.598 $\chi^2/\text{NDF}: 72.4/46$

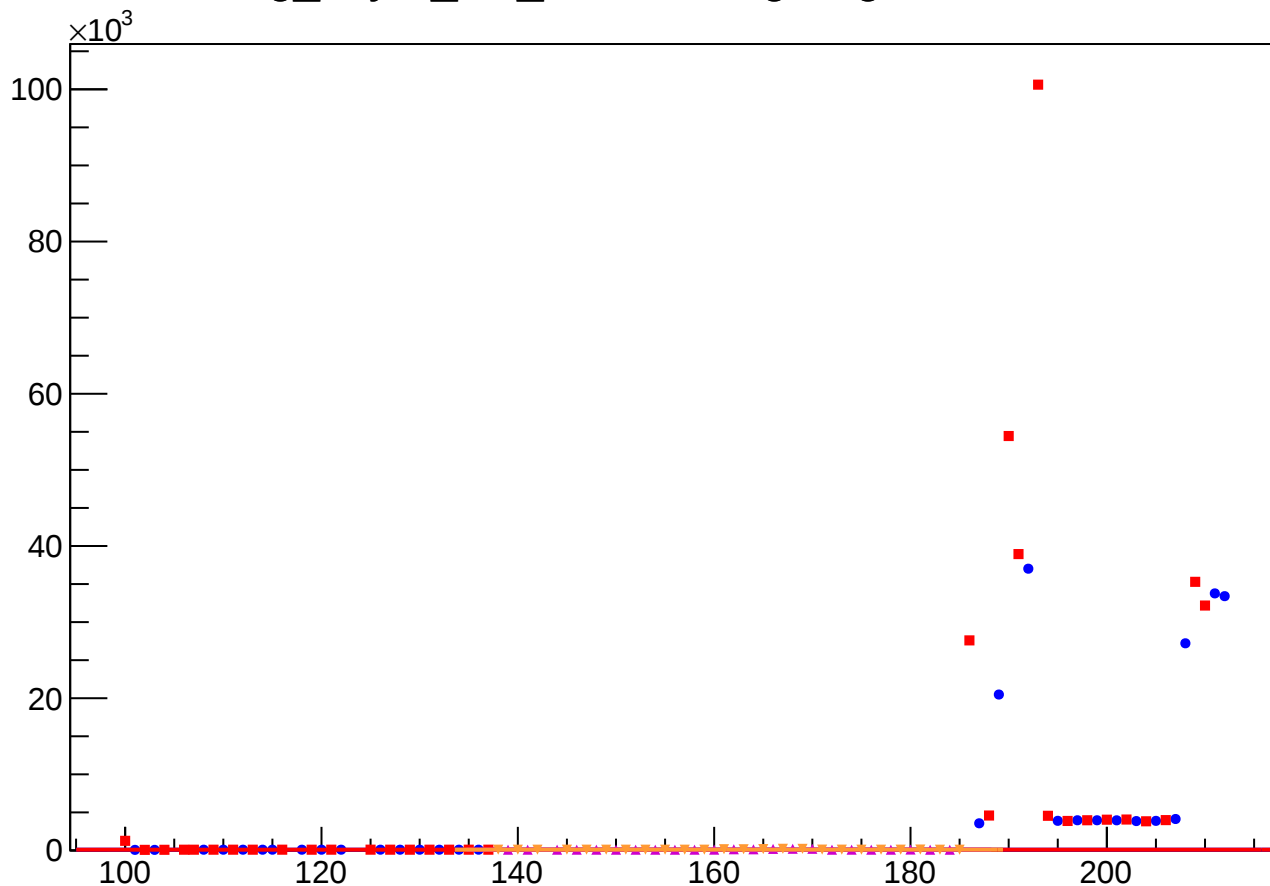
Right: -0.243 ± 25.989 $\chi^2/\text{NDF}: 53.7/60$

In: 15.582 ± 21.413 $\chi^2/\text{NDF}: 69.6/51$

Out: 8.743 ± 21.365 $\chi^2/\text{NDF}: 56.8/55$

All: 12.155 ± 15.124 $\chi^2/\text{NDF}: 126.5/107$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.092 $\pm$ 0.026 χ^2 /NDF: 15448268.9/28

Left Out: 108.059 $\pm$ 0.019 χ^2 /NDF: 1434979.3/23

Right Out: 98.270 $\pm$ 0.026 χ^2 /NDF: 14533585.0/31

Left In: 107.672 $\pm$ 0.019 χ^2 /NDF: 1491034.7/22

Left: 107.867 $\pm$ 0.013 χ^2 /NDF: 2926230.6/46

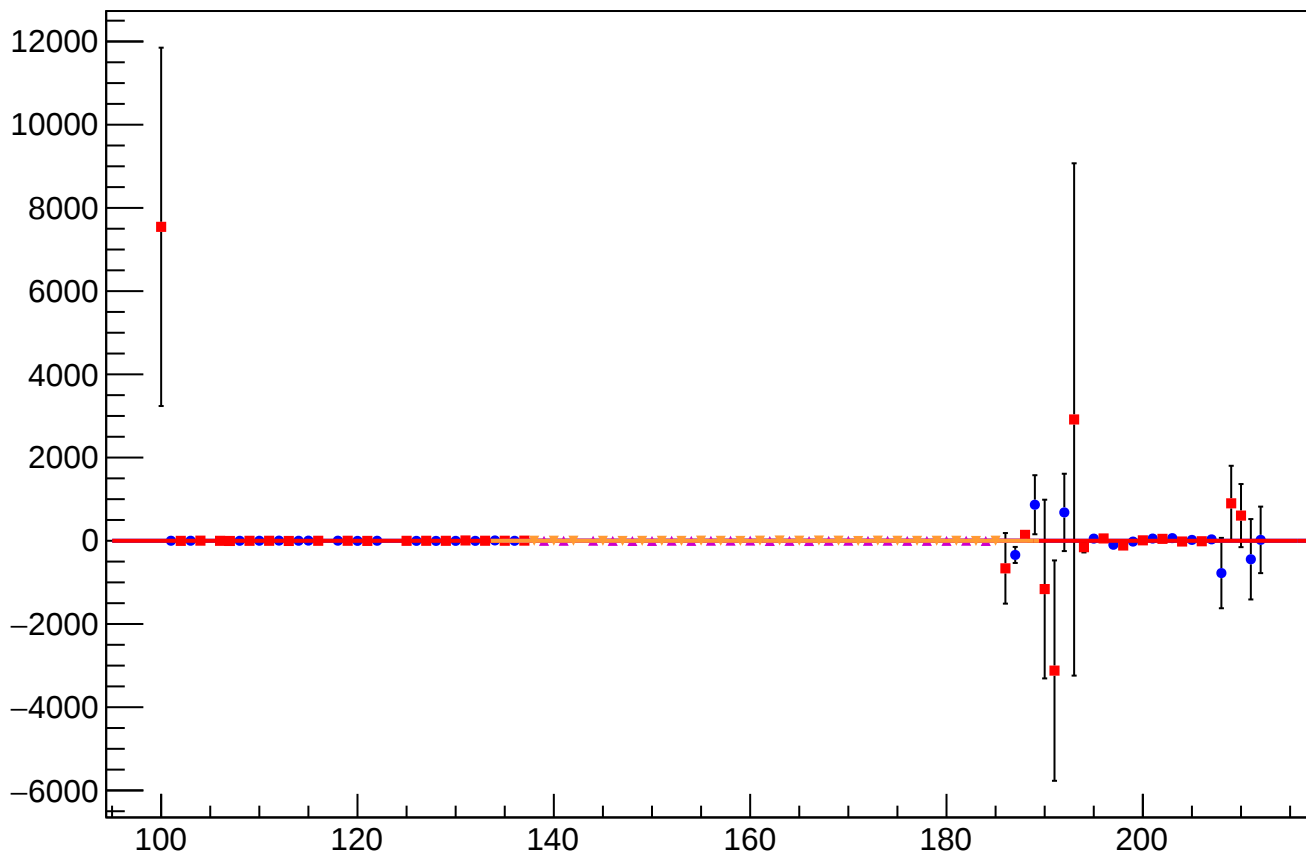
Right: 97.181 $\pm$ 0.018 χ^2 /NDF: 29985365.1/60

In: 103.743 $\pm$ 0.015 χ^2 /NDF: 17070429.3/51

Out: 104.750 $\pm$ 0.015 χ^2 /NDF: 16062521.2/55

All: 104.248 $\pm$ 0.011 χ^2 /NDF: 33135166.3/100

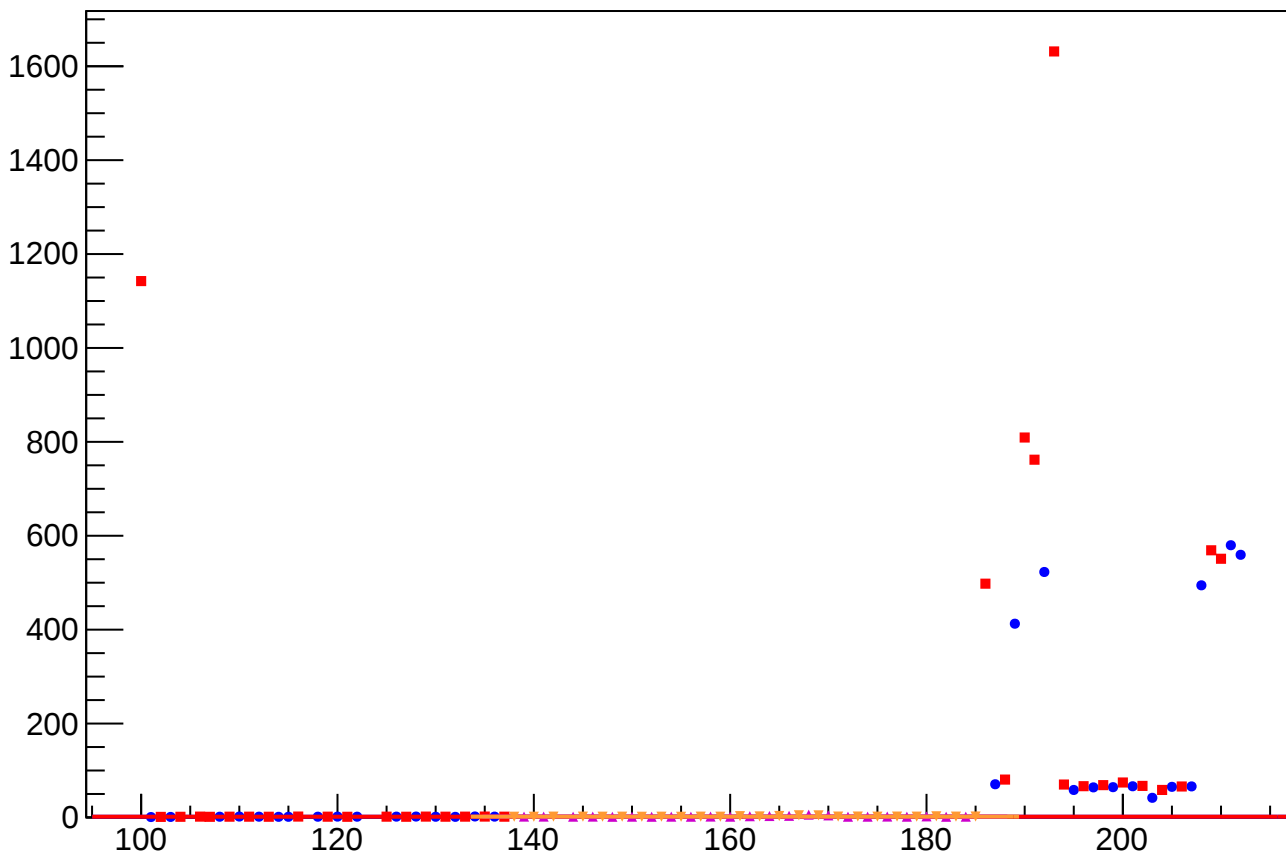
asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.397 ± 0.617 $\chi^2/\text{NDF}: 20.5/28$
Left Out: -0.534 ± 0.475 $\chi^2/\text{NDF}: 30.5/23$
Right Out: -0.346 ± 0.644 $\chi^2/\text{NDF}: 31.3/31$
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: 0.041 ± 0.445 $\chi^2/\text{NDF}: 52.5/60$
In: 0.110 ± 0.381 $\chi^2/\text{NDF}: 45.8/51$
Out: -0.468 ± 0.382 $\chi^2/\text{NDF}: 61.9/55$
All: -0.178 ± 0.270 $\chi^2/\text{NDF}: 108.8/107$

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.450+/-0.000 χ^2/NDF : 13459342.2/28

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

Right Out: 1.585+/-0.000 χ^2/NDF : 12783557.0/31

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

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

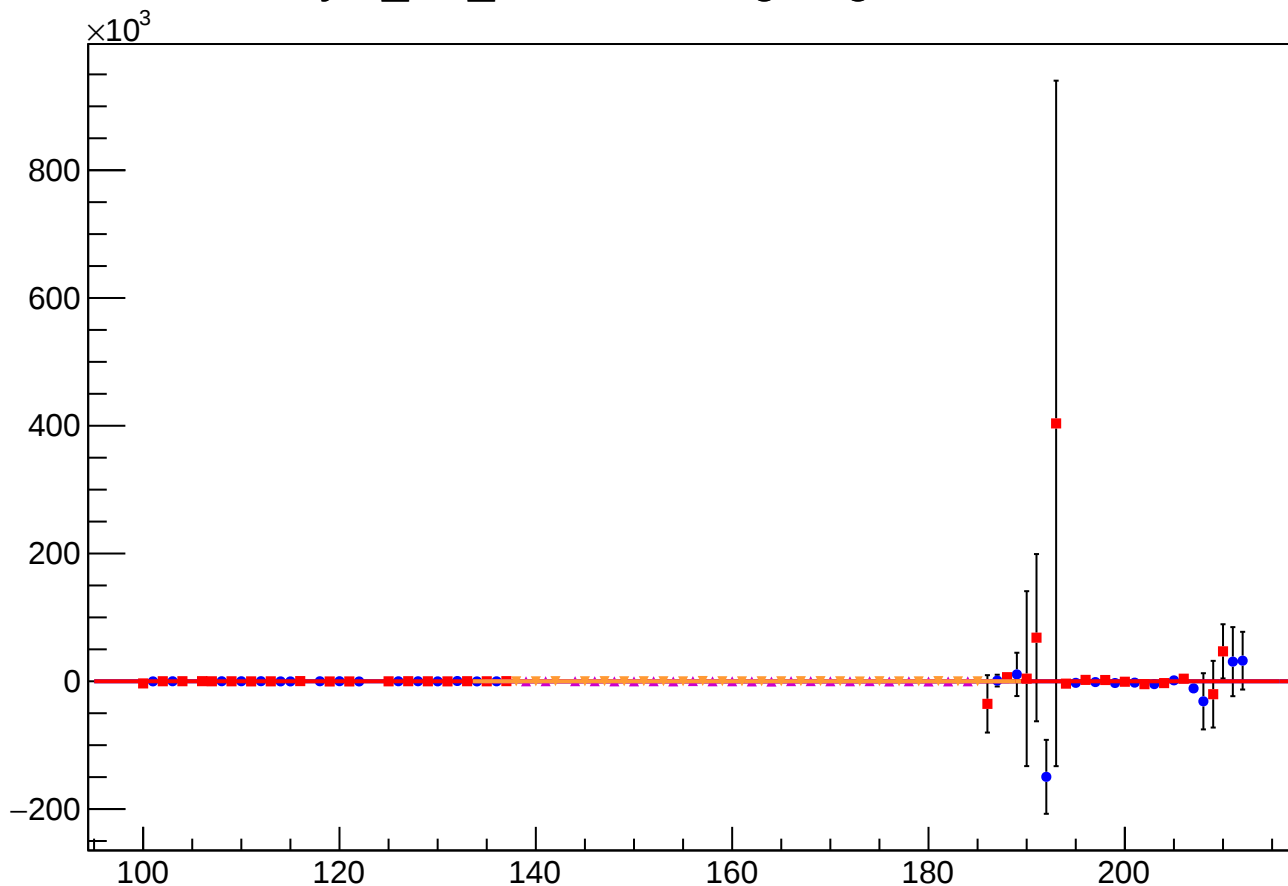
Right: 1.515+/-0.000 χ^2/NDF : 26288417.9/60

In: 1.668+/-0.000 χ^2/NDF :15783282.0/51

Out: 1.706+/-0.000 χ^2/NDF :14491725.2/55

All: 1.687+/-0.000 χ^2/NDF : 30284621.4/107

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.056 ± 36.771 χ^2/NDF : 33.1/28

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

Right Out: 1.620 ± 36.757 χ^2/NDF : 20.3/31

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

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

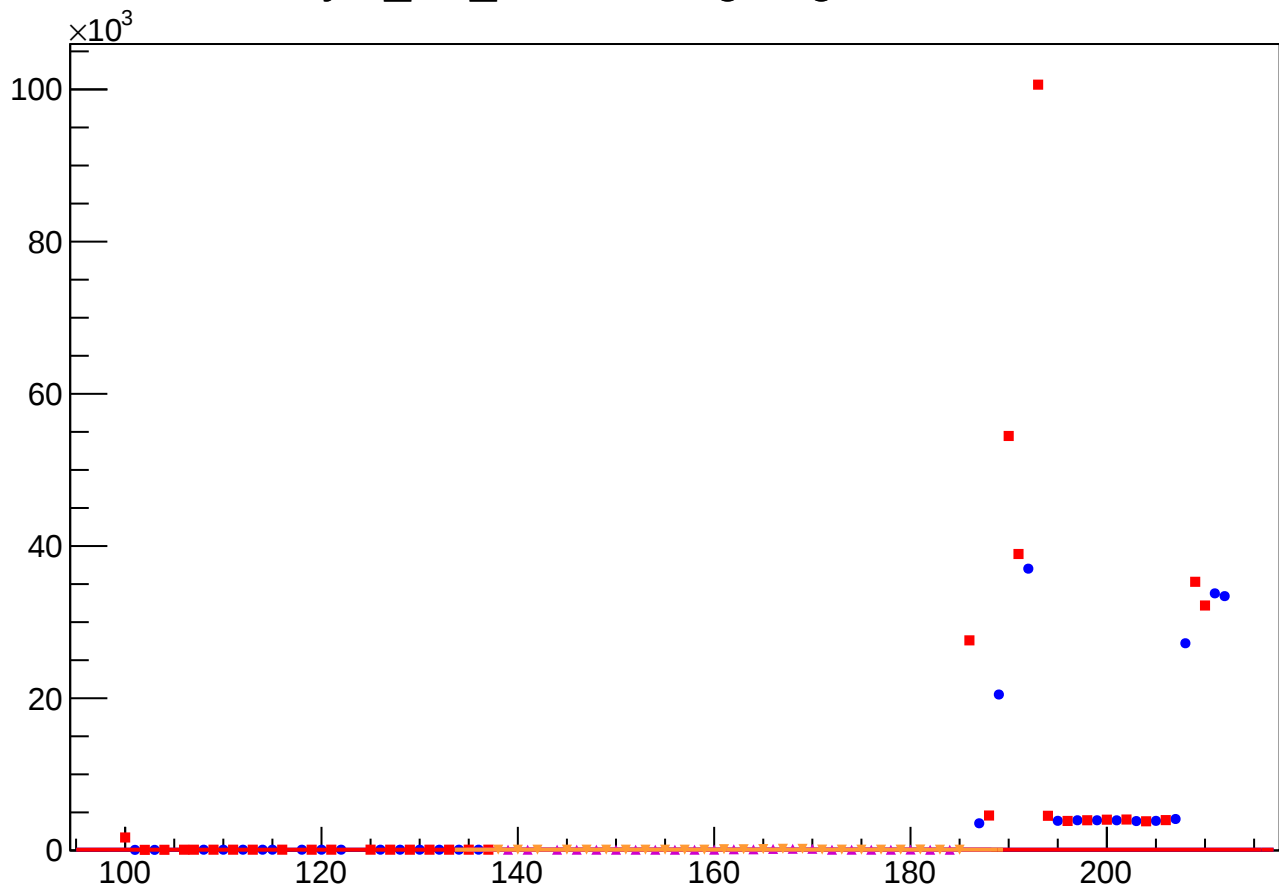
Right: -0.217 ± 25.996 χ^2/NDF : 53.4/60

In: 16.026 ± 21.419 χ^2/NDF : 69.2/51

Out: 9.118 ± 21.372 χ^2/NDF : 56.1/55

All: 12.564 ± 15.129 χ^2/NDF : 125.3/107

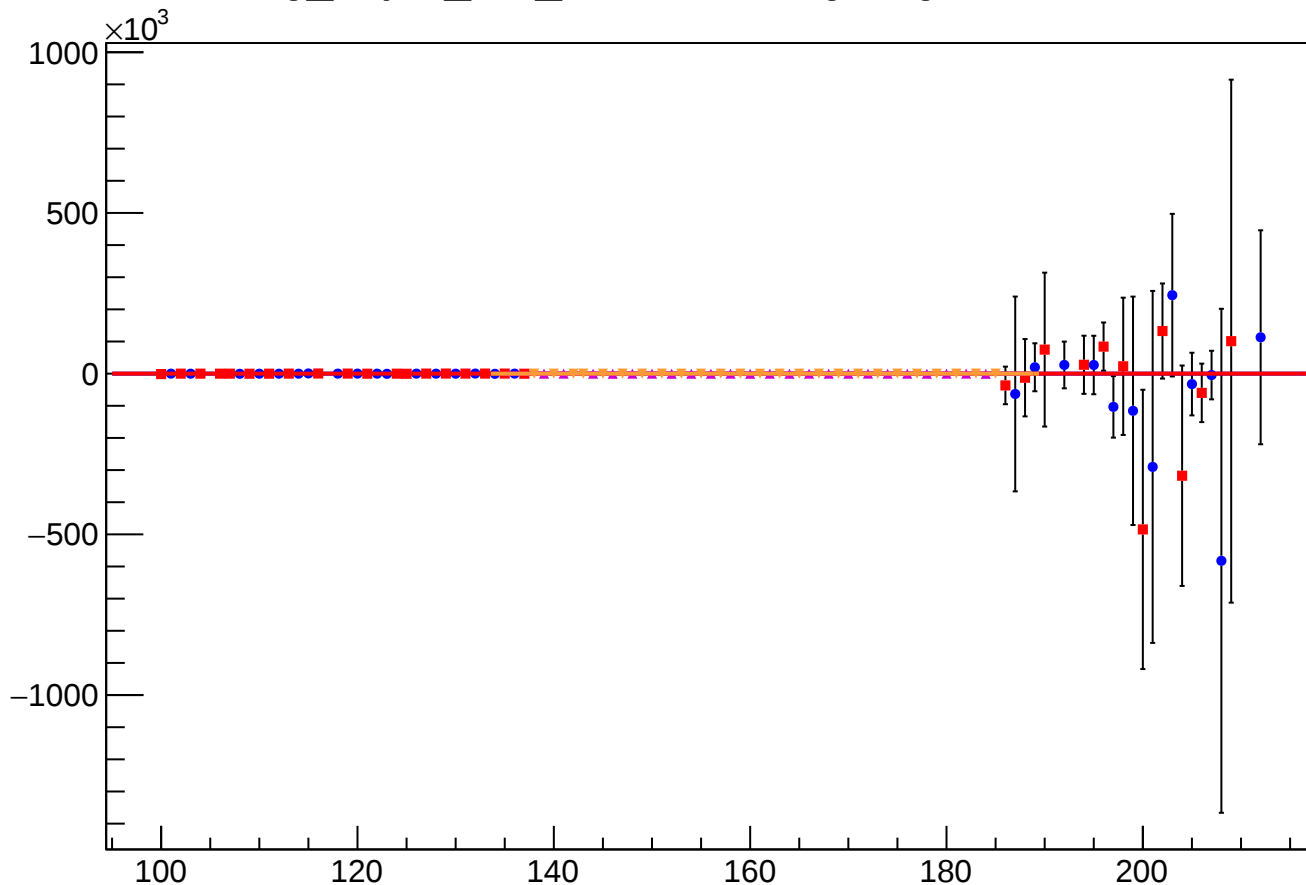
asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.117 $\pm$ 0.026 χ^2 /NDF: 15448281.1/28
 Left Out: 108.090 $\pm$ 0.019 χ^2 /NDF: 1436368.7/23
 Right Out: 98.279 $\pm$ 0.026 χ^2 /NDF: 14538885.4/31
 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: 97.199 $\pm$ 0.018 χ^2 /NDF: 29990626.2/60
 In: 103.772 $\pm$ 0.015 χ^2 /NDF: 17071808.9/51
 Out: 104.774 $\pm$ 0.015 χ^2 /NDF: 16069569.7/55
 All: 104.274 $\pm$ 0.011 χ^2 /NDF: 33143570.9/10

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.802 ± 46.841 $\chi^2/\text{NDF}: 18.0/28$

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

Right Out: 53.389 ± 47.775 $\chi^2/\text{NDF}: 20.6/29$

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

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

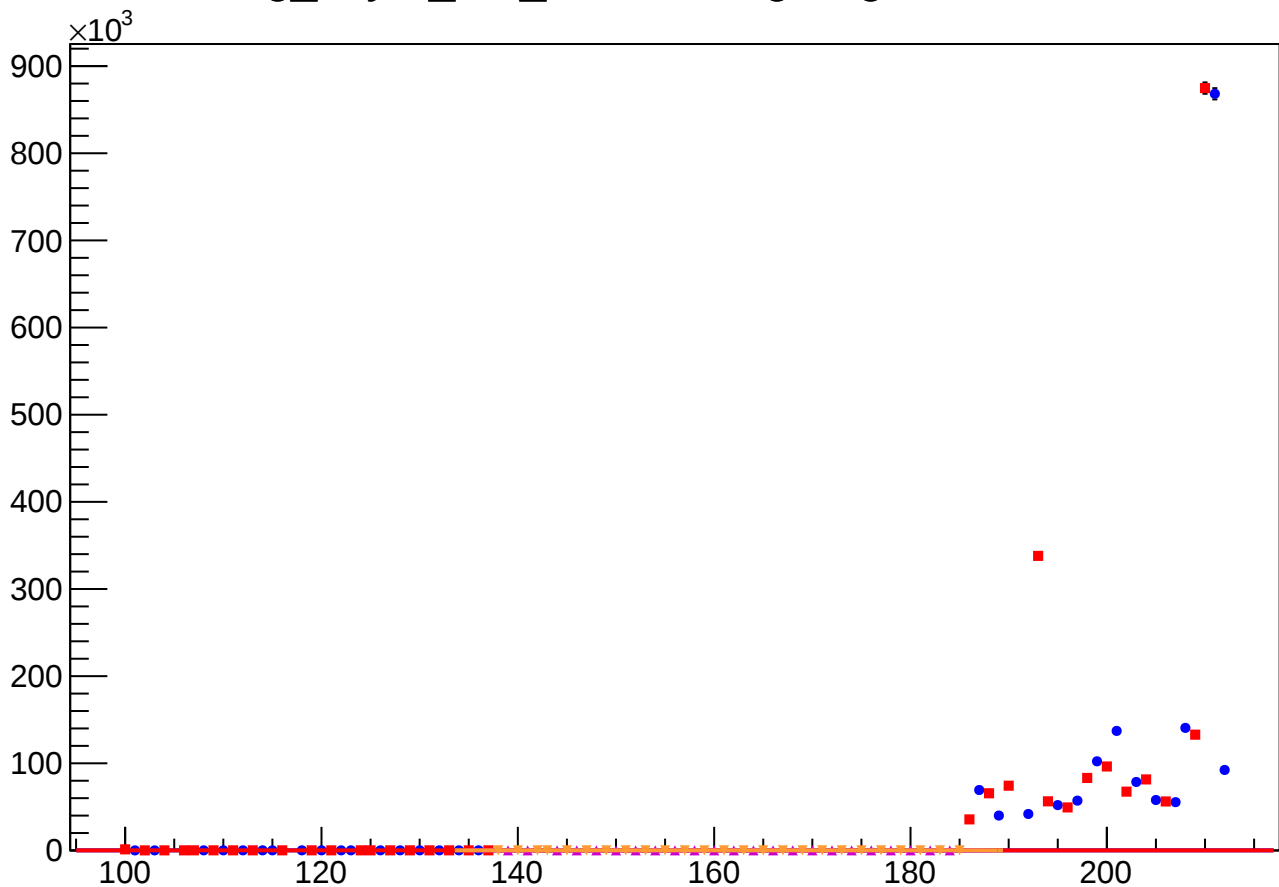
Right: 12.502 ± 33.447 $\chi^2/\text{NDF}: 40.1/58$

In: -52.583 ± 26.947 $\chi^2/\text{NDF}: 37.8/51$

Out: 7.734 ± 26.623 $\chi^2/\text{NDF}: 34.0/54$

All: -22.060 ± 18.939 $\chi^2/\text{NDF}: 74.3/106$

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.880+/-0.033 χ^2/NDF : 6718331.2/29

Left Out: 137.856+/-0.023 χ^2/NDF :443.5/24

Right Out: 124.838+/-0.034 χ^2/NDF : 6251053.7/31

Left In: 137.804+/-0.023 χ^2/NDF :460.3/22

Left: 137.831+/-0.016 χ^2/NDF : 906.3/47

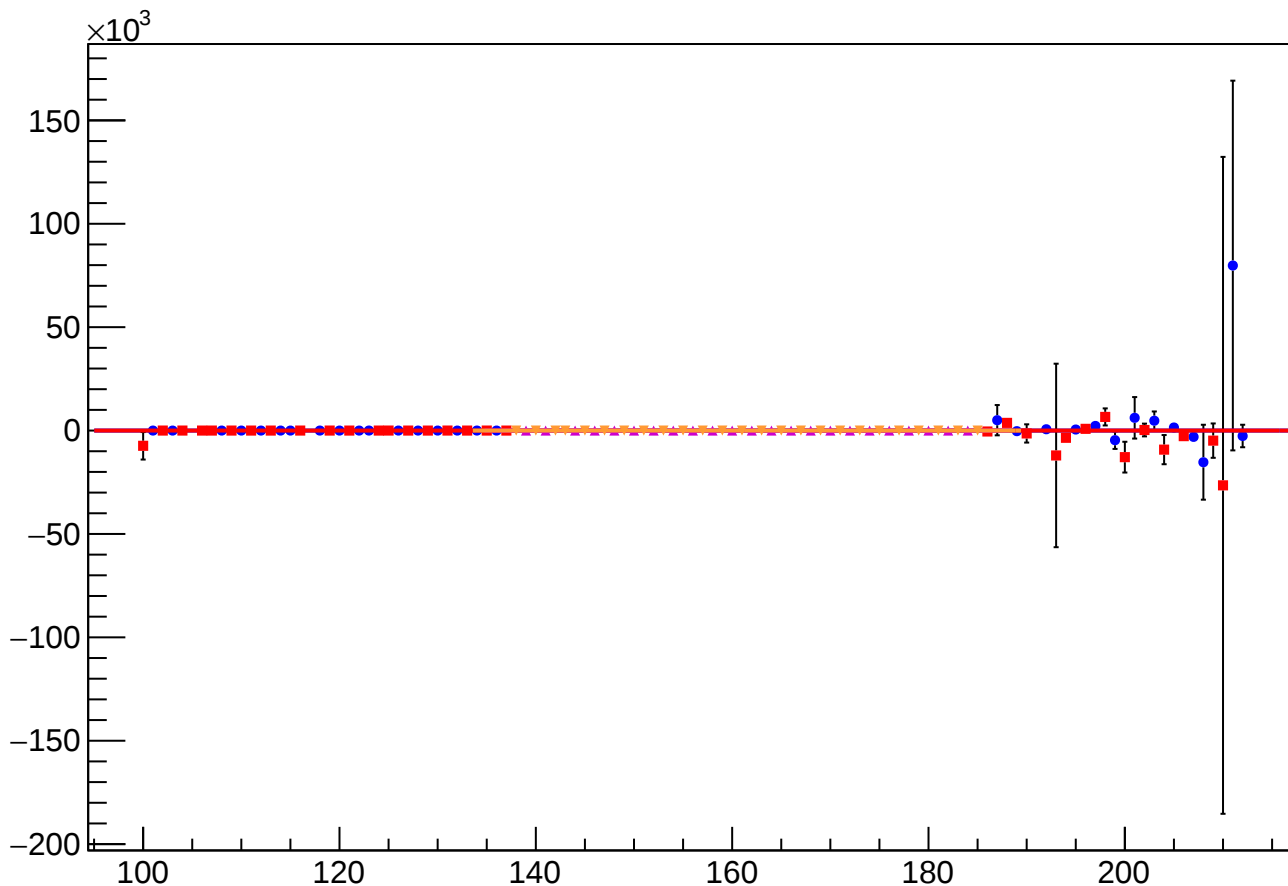
Right: 121.290+/-0.024 χ^2/NDF : 12991012.1/61

In: 131.211+/-0.019 χ^2/NDF :6960896.5/52

Out: 133.814+/-0.019 χ^2/NDF :6353894.9/56

All: 132.528+/-0.013 χ^2/NDF : 13324235.9/10

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 $\chi^2/\text{NDF}: 25.0/29$

Left Out: 0.490 ± 0.572 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.639 ± 0.852 $\chi^2/\text{NDF}: 32.6/31$

Left In: 0.290 ± 0.579 $\chi^2/\text{NDF}: 20.7/22$

Left: 0.391 ± 0.407 $\chi^2/\text{NDF}: 49.7/47$

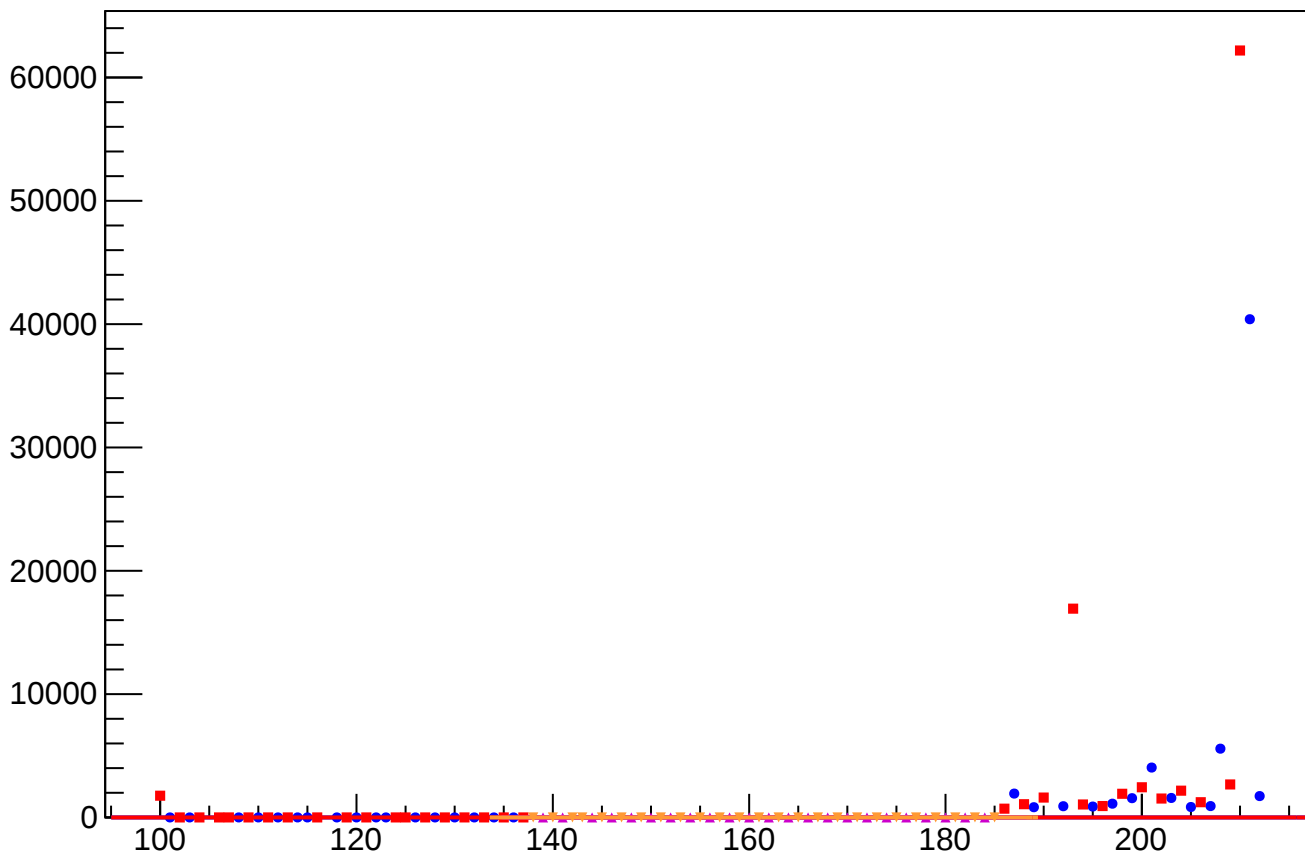
Right: -0.681 ± 0.587 $\chi^2/\text{NDF}: 57.6/61$

In: -0.052 ± 0.471 $\chi^2/\text{NDF}: 46.7/52$

Out: 0.139 ± 0.475 $\chi^2/\text{NDF}: 62.7/56$

All: 0.043 ± 0.334 $\chi^2/\text{NDF}: 109.6/109$

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867+/-0.001 χ^2/NDF : 6427250.6/29

Left Out: 2.262+/-0.000 χ^2/NDF : 374973.2/24

Right Out: 2.065+/-0.001 χ^2/NDF : 6586352.7/31

Left In: 2.193+/-0.000 χ^2/NDF : 510890.7/22

Left: 2.228+/-0.000 χ^2/NDF : 900243.0/47

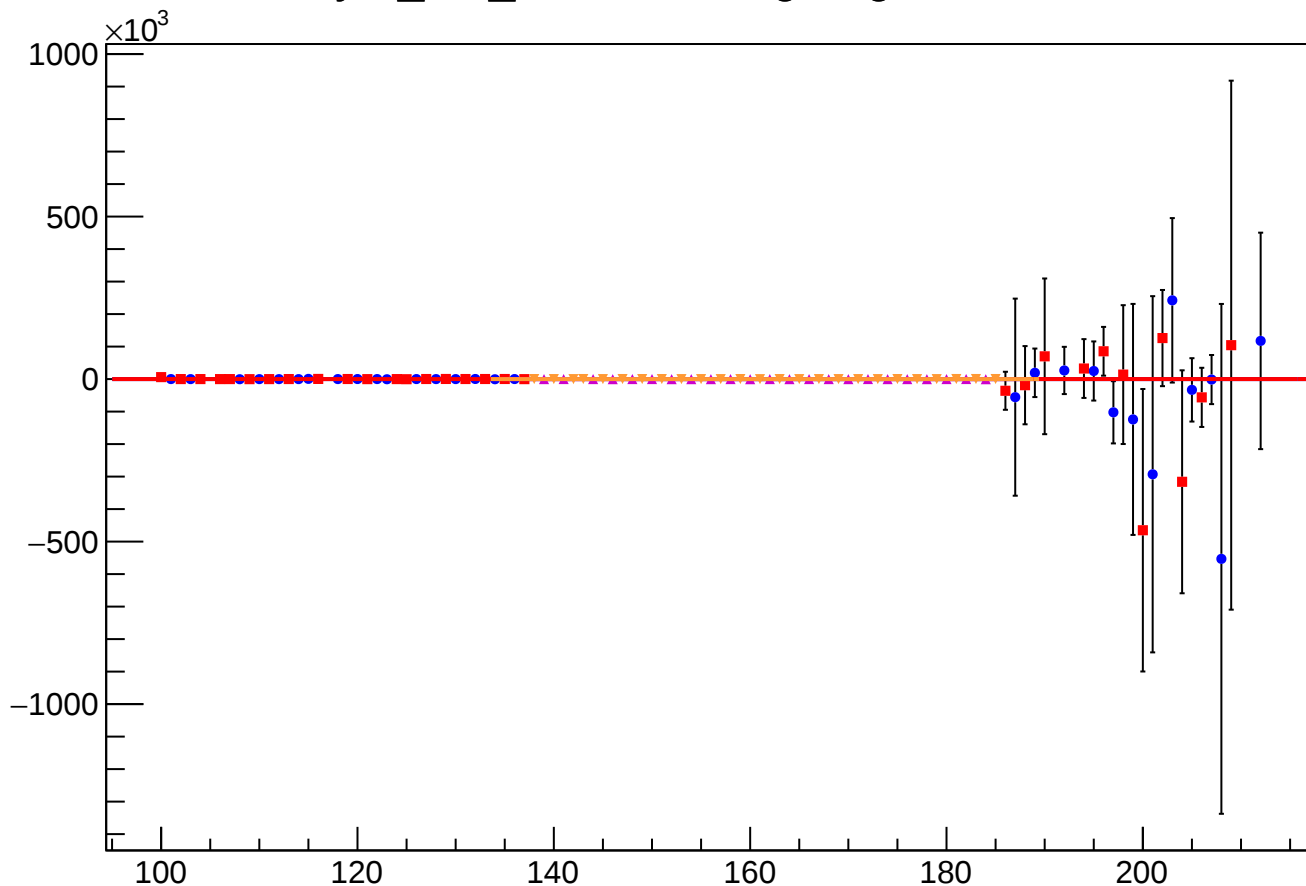
Right: 1.961+/-0.000 χ^2/NDF : 13070453.5/61

In: 2.083+/-0.000 χ^2/NDF : 7152469.1/52

Out: 2.201+/-0.000 χ^2/NDF : 7034764.7/56

All: 2.141+/-0.000 χ^2/NDF : 14249592.0/109

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.064 ± 46.854 χ^2/NDF : 18.0/28

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

Right Out: 54.292 ± 47.789 χ^2/NDF : 21.1/29

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

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

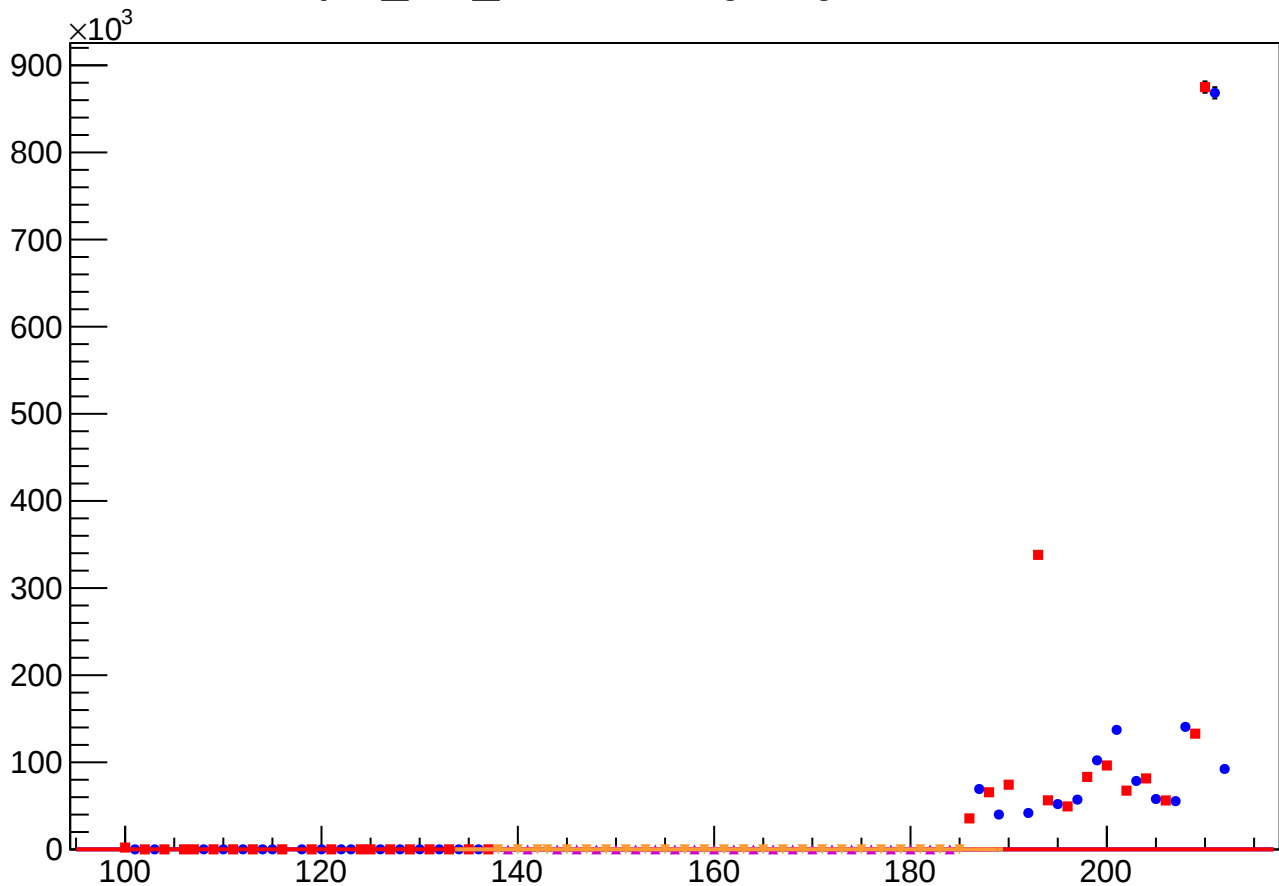
Right: 13.830 ± 33.456 χ^2/NDF : 40.5/58

In: -51.938 ± 26.954 χ^2/NDF : 37.9/51

Out: 7.632 ± 26.631 χ^2/NDF : 34.3/54

All: -21.793 ± 18.944 χ^2/NDF : 74.6/106

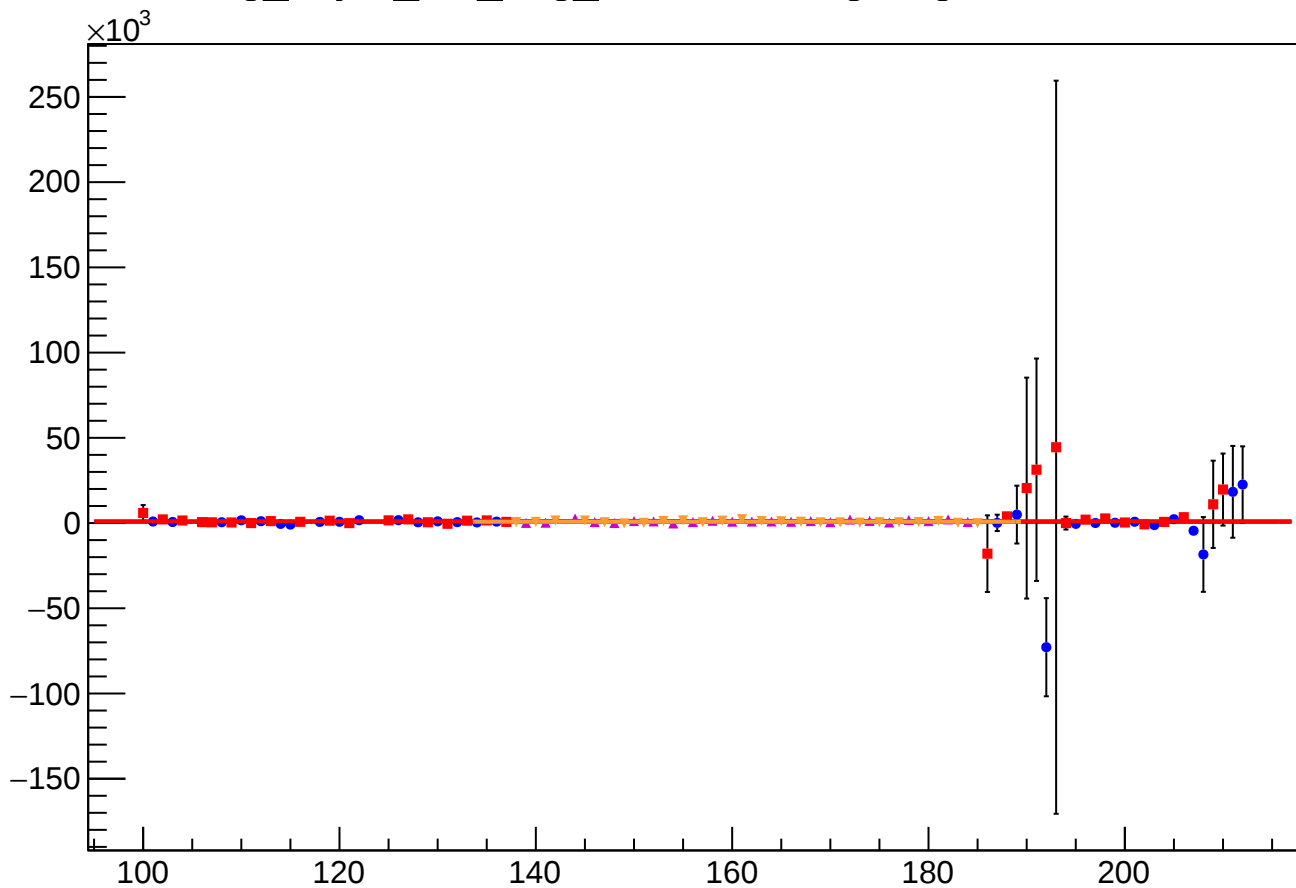
asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.912 $\pm$ 0.033 χ^2 /NDF: 6718475.9/29
 Left Out: 137.895 $\pm$ 0.023 χ^2 /NDF:440.9/24
 Right Out: 124.827 $\pm$ 0.034 χ^2 /NDF: 6261723.7/31
 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: 121.301 $\pm$ 0.024 χ^2 /NDF: 13001549.0/61
 In: 131.247 $\pm$ 0.019 χ^2 /NDF:6961076.6/52
 Out: 133.837 $\pm$ 0.019 χ^2 /NDF:6365285.1/56
 All: 132.558 $\pm$ 0.013 χ^2 /NDF: 13335705.9/10

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 768.826 $\pm$ 209.854 χ^2/NDF : 21.0/28

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

Right Out: 1039.522 $\pm$ 207.275 χ^2/NDF : 19.6/31

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

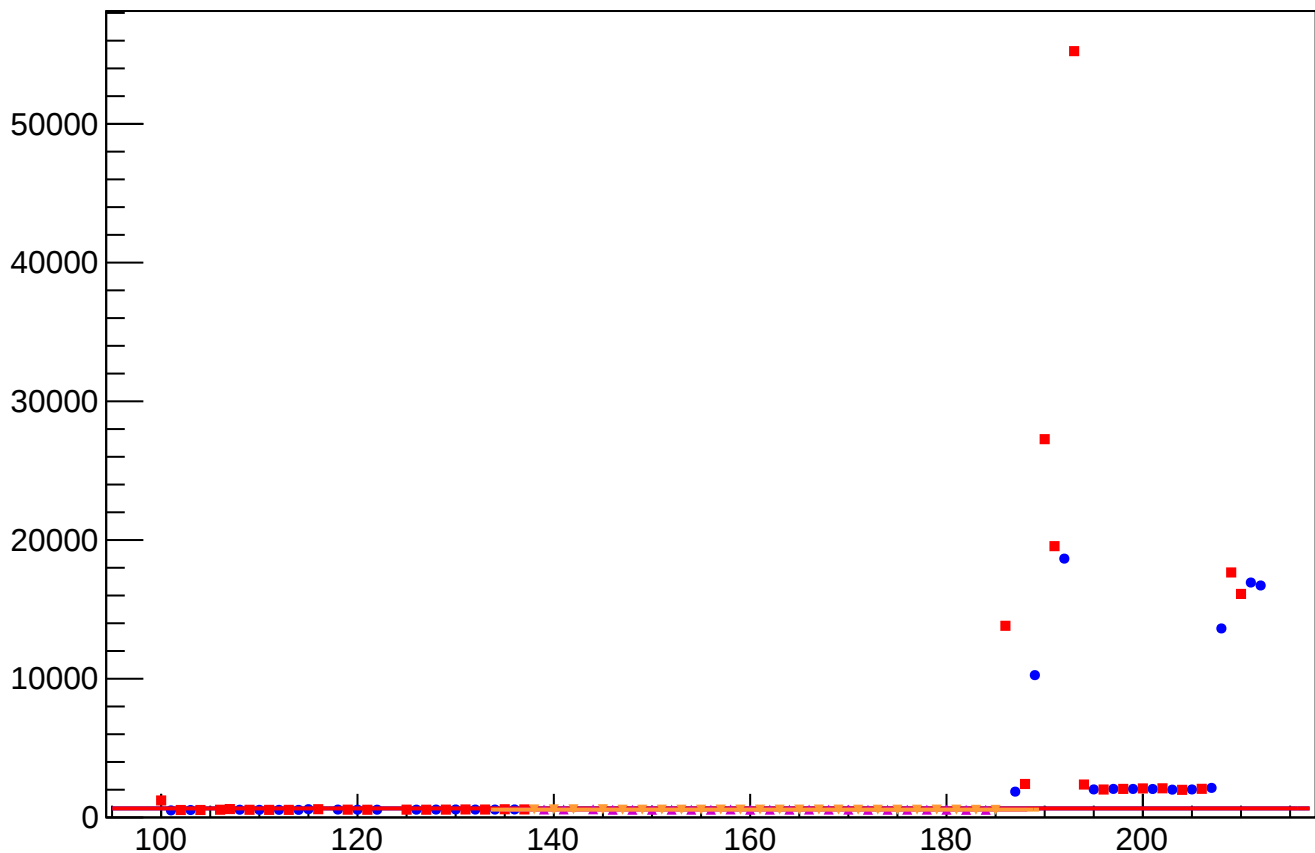
Right: 905.848 $\pm$ 147.469 χ^2/NDF : 41.4/60

In: 914.271 $\pm$ 113.495 χ^2/NDF : 49.1/51

Out: 859.620 $\pm$ 112.564 χ^2/NDF : 39.9/55

All: 886.720 $\pm$ 79.922 χ^2/NDF : 89.1/107

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 654.215+/-0.148

χ^2/NDF : 9694029.2/28

Left Out: 564.143+/-0.095

χ^2/NDF : 9594.1/23

Right Out: 651.642+/-0.147

χ^2/NDF : 9143333.0/31

Left In: 564.383+/-0.095

χ^2/NDF : 9209.5/22

Left: 564.262+/-0.067

χ^2/NDF : 18806.8/46

Right: 652.912+/-0.104

χ^2/NDF : 18837514.4/60

In: 590.659+/-0.080

χ^2/NDF : 9962526.4/51

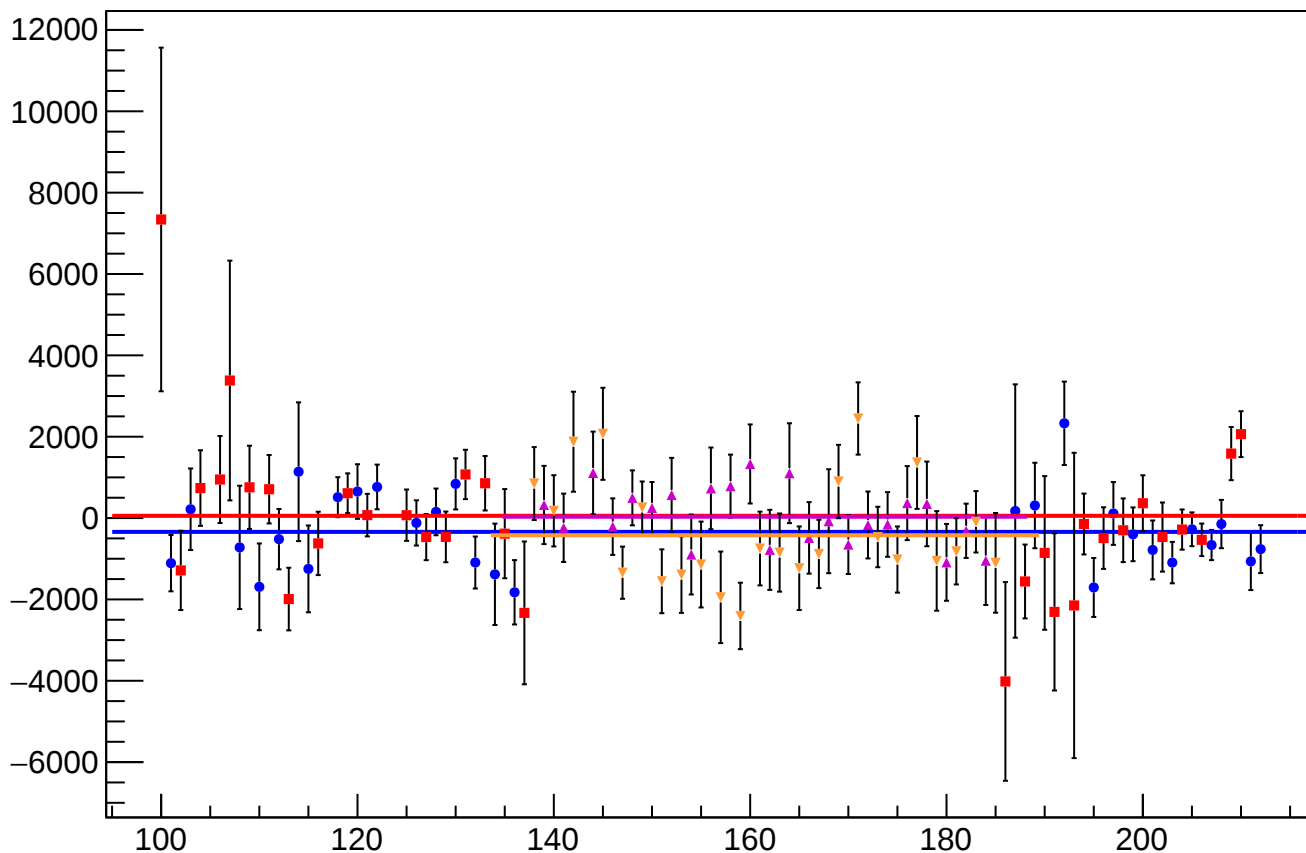
Out: 589.948+/-0.080

χ^2/NDF : 9404217.7/55

All: 590.301+/-0.057

χ^2/NDF : 19366783.6/100

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -339.667 $\pm$ 124.040 χ^2/NDF : 40.1/28

Left Out: -422.681 $\pm$ 180.610 χ^2/NDF : 43.2/23

Right Out: 55.574 $\pm$ 131.754 χ^2/NDF : 55.6/31

Left In: 32.411 $\pm$ 179.430 χ^2/NDF : 12.2/22

Left: -193.644 $\pm$ 127.291 χ^2/NDF : 58.6/46

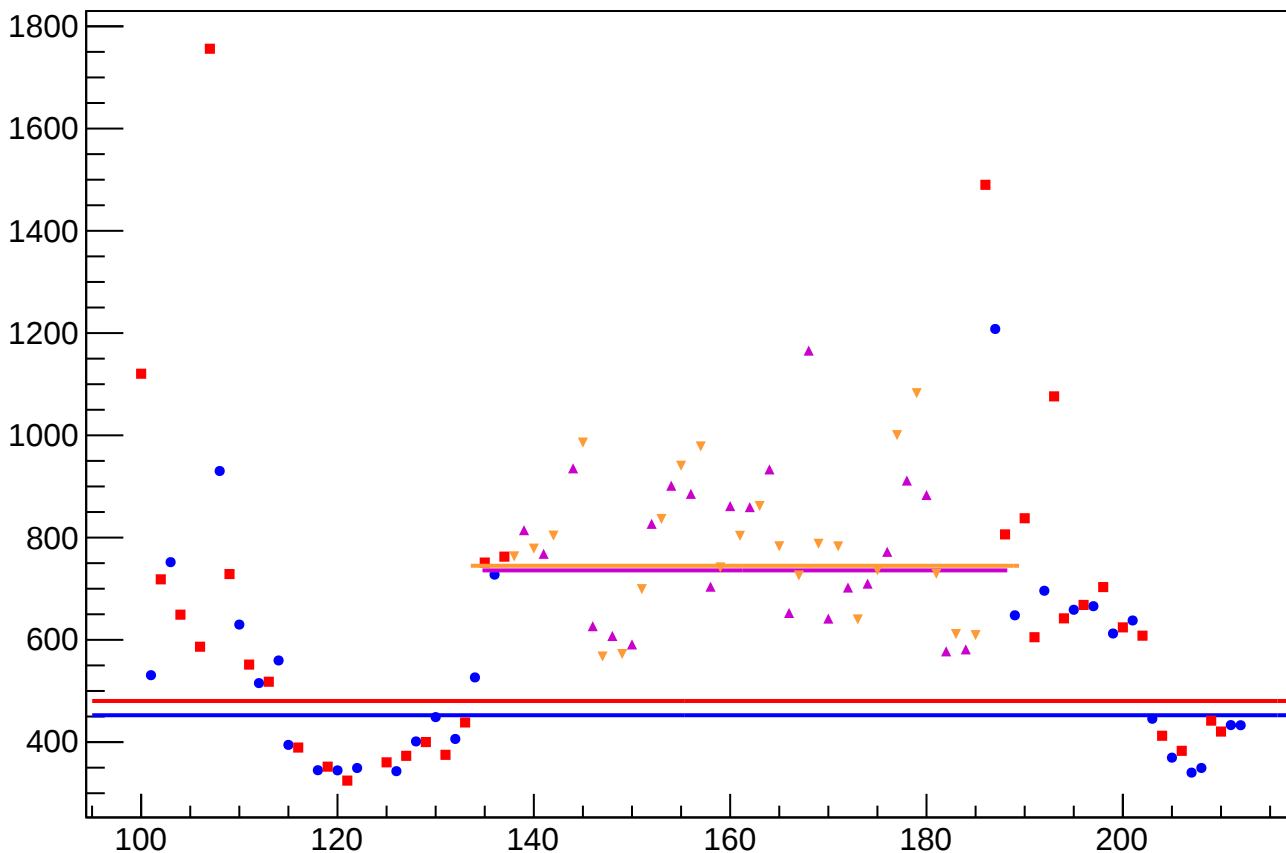
Right: -153.955 $\pm$ 90.314 χ^2/NDF : 100.5/60

In: -219.351 $\pm$ 102.033 χ^2/NDF : 55.2/51

Out: -110.538 $\pm$ 106.442 χ^2/NDF : 103.3/55

All: -167.245 $\pm$ 73.658 χ^2/NDF : 159.1/107

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 452.550 $\pm$ 0.088 χ^2 /NDF: 2246979.8/28

Left Out: 744.909 $\pm$ 0.128 χ^2 /NDF:1008847.7/23

Right Out: 480.394 $\pm$ 0.093 χ^2 /NDF: 2951766.3/31

Left In: 735.850 $\pm$ 0.127 χ^2 /NDF:1105405.5/22

Left: 740.350 $\pm$ 0.090 χ^2 /NDF: 2116785.5/46

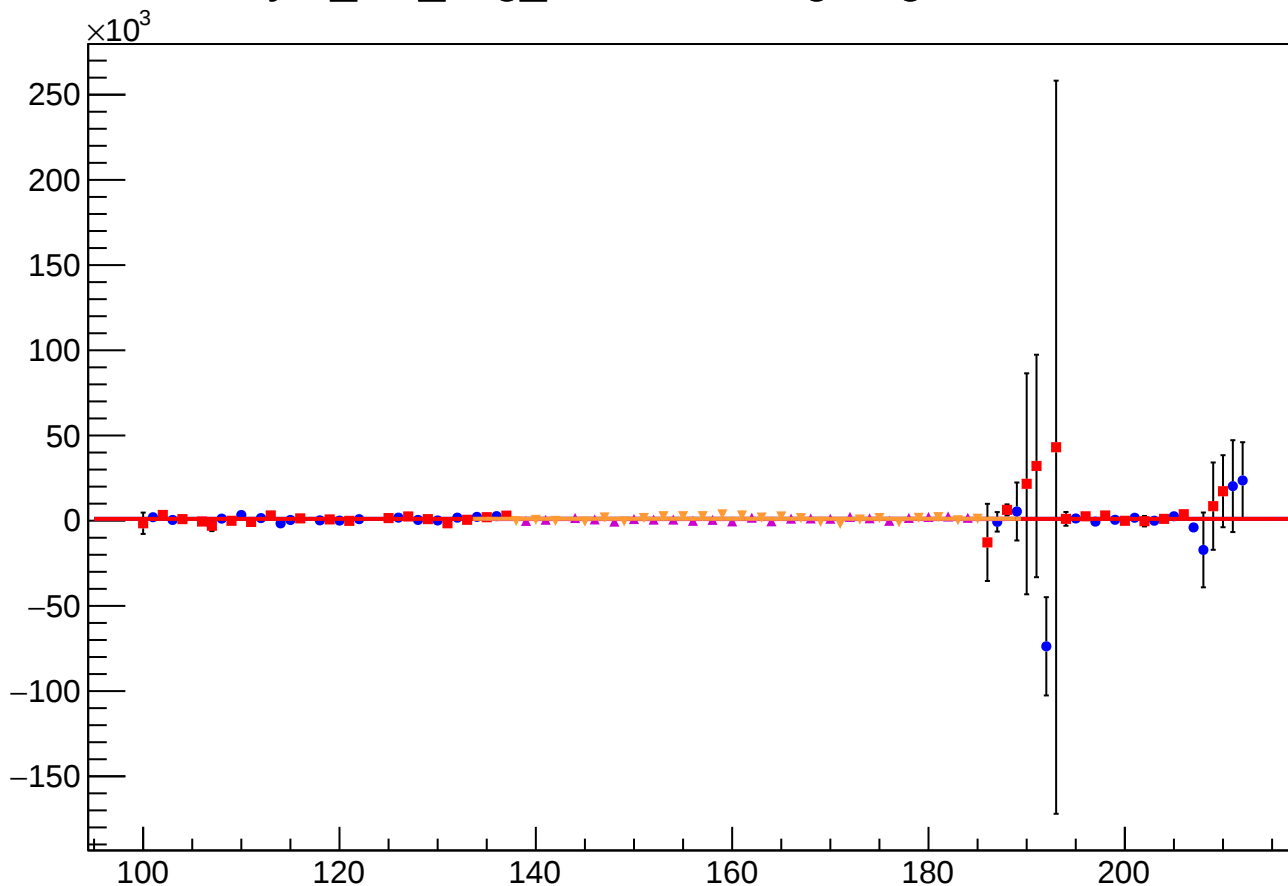
Right: 465.633 $\pm$ 0.064 χ^2 /NDF: 5246099.6/60

In: 544.159 $\pm$ 0.072 χ^2 /NDF:6725934.8/51

Out: 572.268 $\pm$ 0.075 χ^2 /NDF:6760506.1/55

All: 557.619 $\pm$ 0.052 χ^2 /NDF: 13559129.6/100

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1094.500 $\pm$ 280.591 χ^2/NDF : 26.8/28

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

Right Out: 1062.914 $\pm$ 280.373 χ^2/NDF : 30.4/31

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

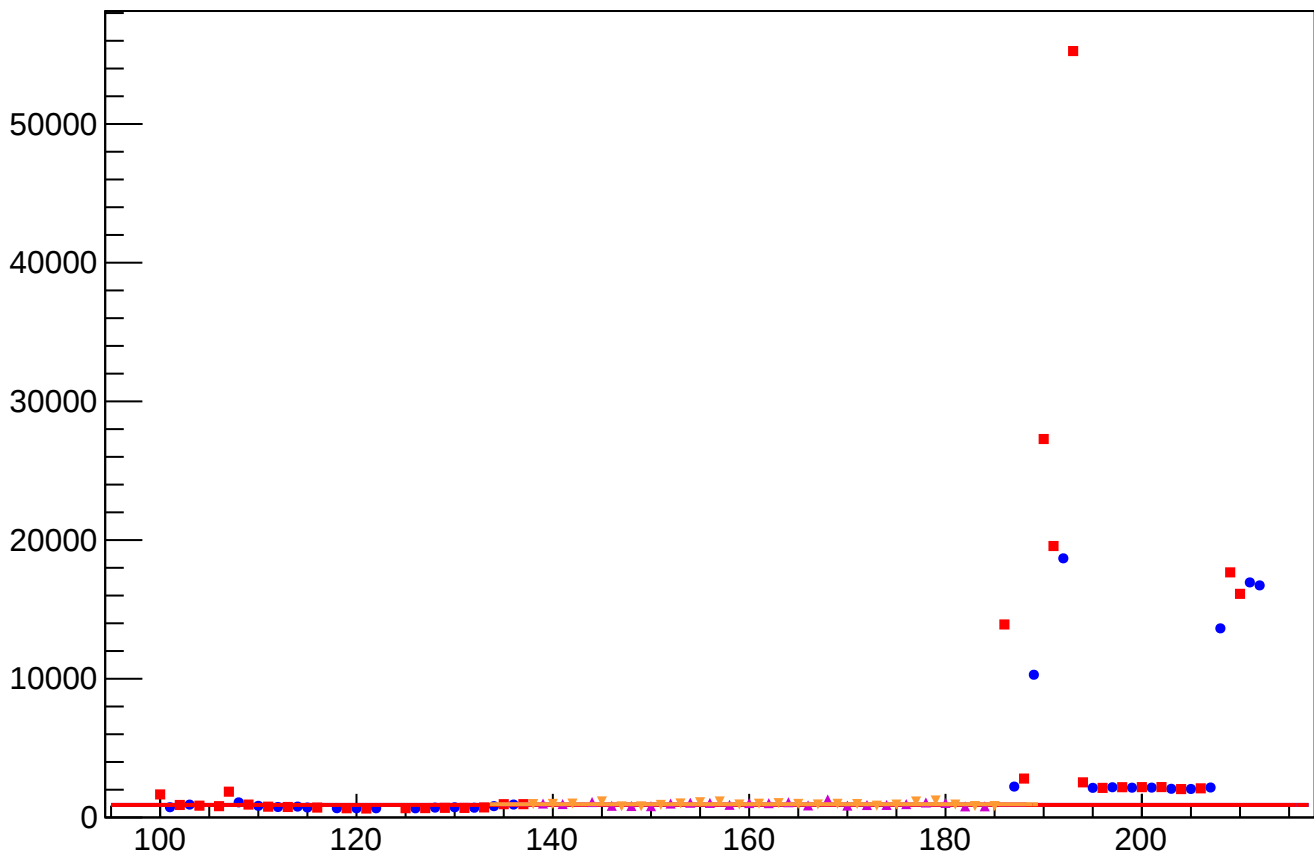
Right: 1078.695 $\pm$ 198.331 χ^2/NDF : 57.3/60

In: 1002.572 $\pm$ 177.099 χ^2/NDF : 41.8/51

Out: 1107.942 $\pm$ 177.282 χ^2/NDF : 69.4/55

All: 1055.202 $\pm$ 125.293 χ^2/NDF : 111.3/107

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 903.572+/-0.198 χ^2/NDF : 8376697.8/28

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

Right Out: 902.461+/-0.198 χ^2/NDF : 8238934.5/31

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

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

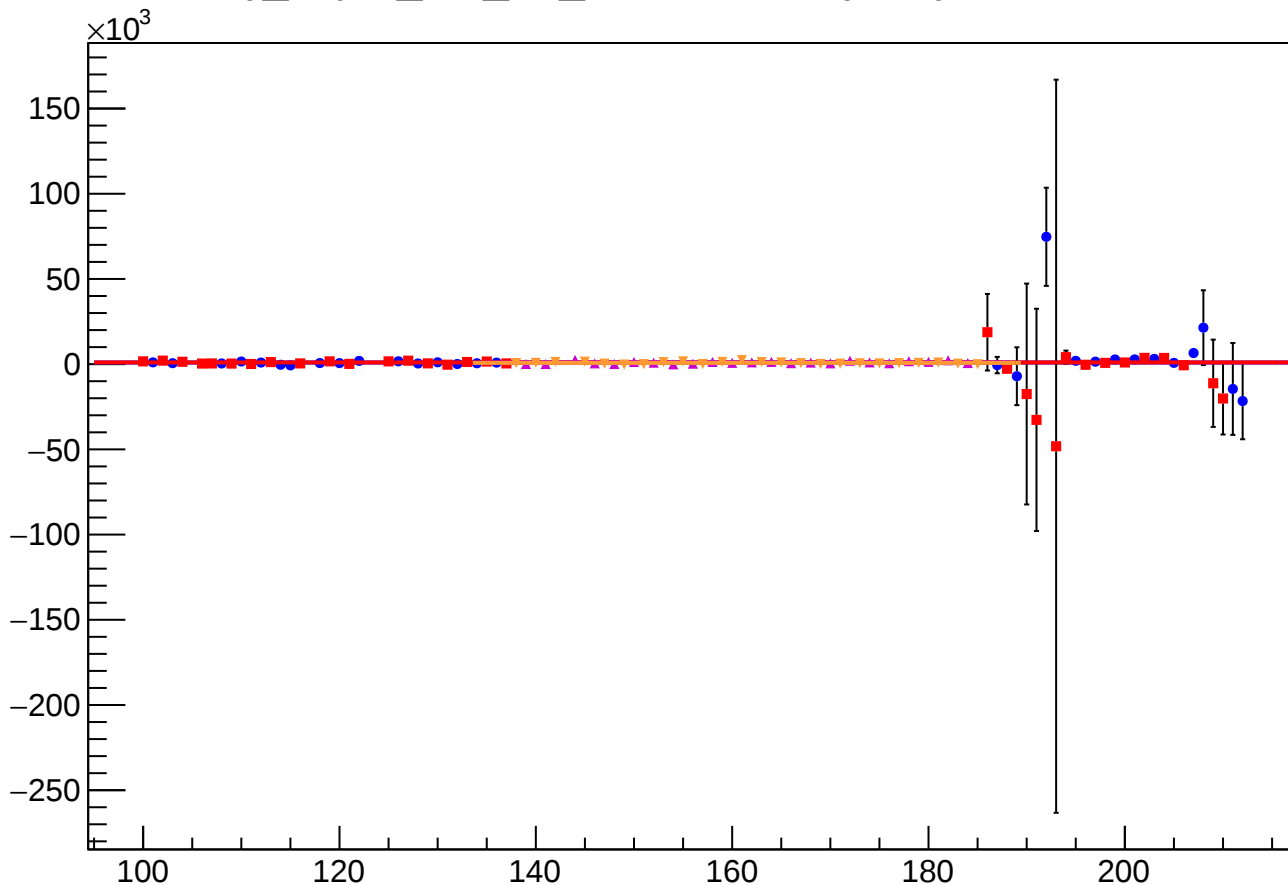
Right: 903.016+/-0.140 χ^2/NDF : 16615648.0/60

In: 929.442+/-0.125 χ^2/NDF : 8906324.6/51

Out: 933.594+/-0.125 χ^2/NDF : 8740170.5/55

All: 931.516+/-0.089 χ^2/NDF : 17647044.1/10

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 957.575 $\pm$ 209.723 χ^2 /NDF: 23.7/28

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

Right Out: 1015.283 $\pm$ 202.662 χ^2 /NDF: 20.1/31

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

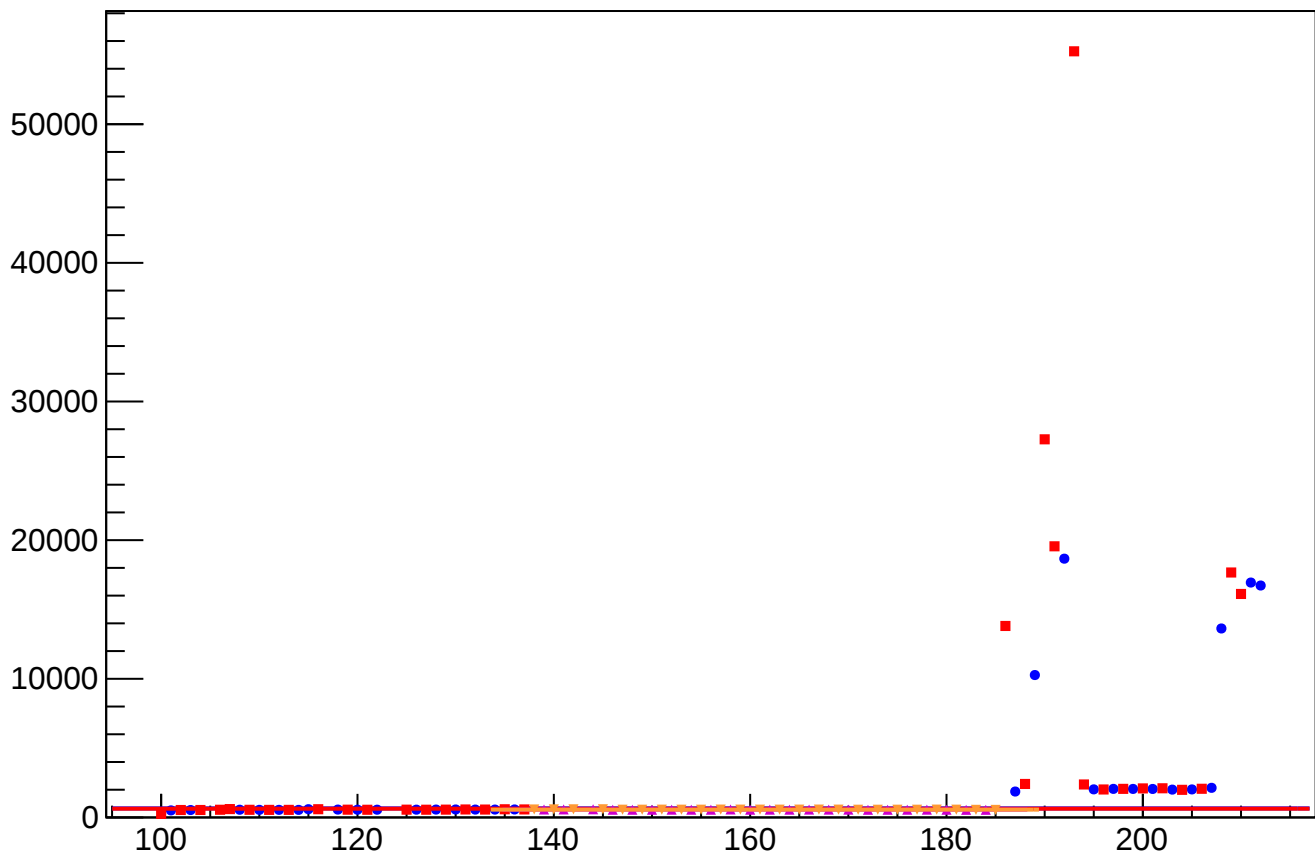
Right: 987.417 $\pm$ 145.736 χ^2 /NDF: 43.8/60

In: 958.241 $\pm$ 113.411 χ^2 /NDF:50.5/51

Out: 835.969 $\pm$ 111.742 χ^2 /NDF:42.2/55

All: 896.199 $\pm$ 79.597 χ^2 /NDF: 93.3/107

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 653.587+/-0.148 χ^2/NDF : 9707572.5/28

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

Right Out: 632.201+/-0.143 χ^2/NDF : 9449688.5/31

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

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

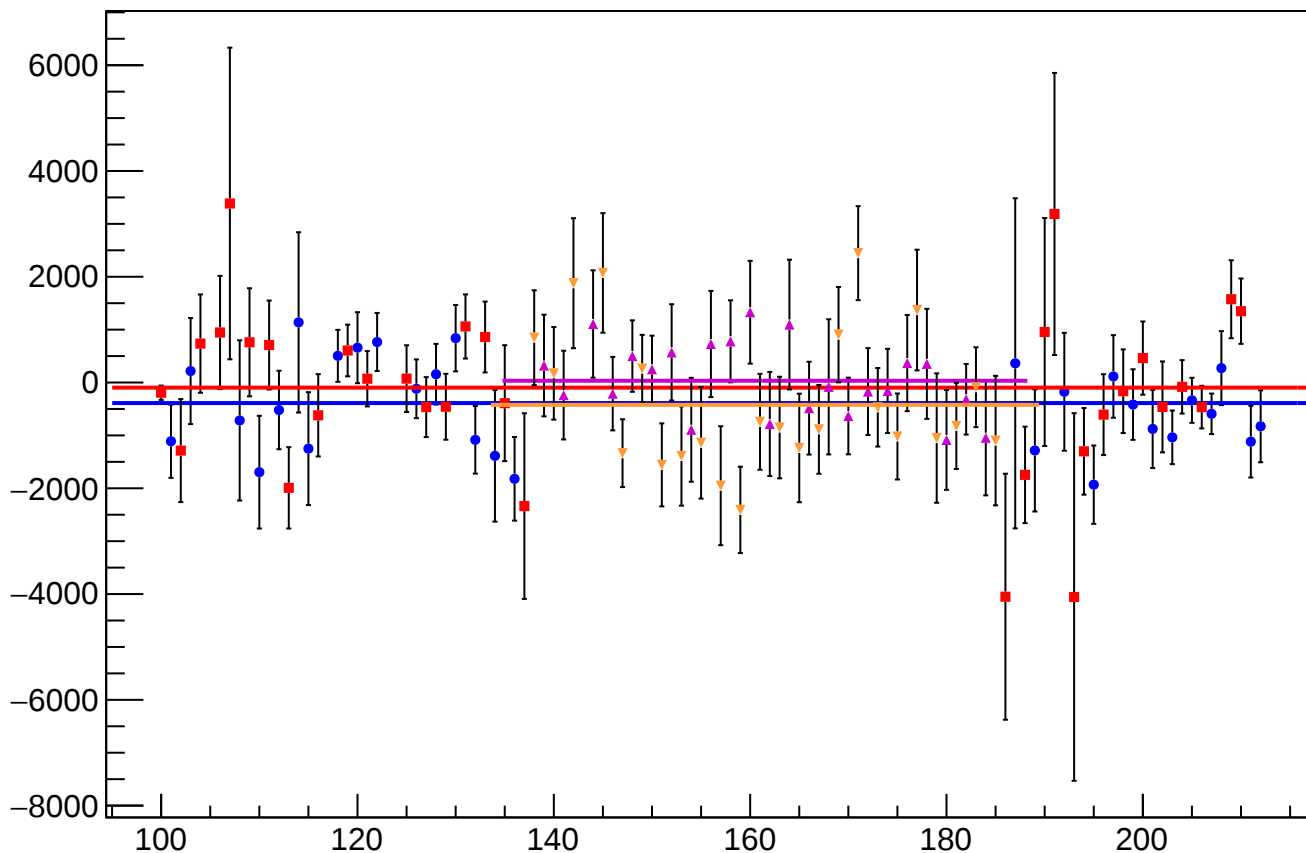
Right: 642.528+/-0.103 χ^2/NDF : 19168014.7/60

In: 590.151+/-0.080 χ^2/NDF : 9975383.0/51

Out: 584.508+/-0.079 χ^2/NDF : 9618383.1/55

All: 587.287+/-0.056 χ^2/NDF : 19596278.8/10

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -388.179 ± 126.569 $\chi^2/\text{NDF}: 35.0/28$

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

Right Out: -96.530 ± 95.094 $\chi^2/\text{NDF}: 47.8/31$

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

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

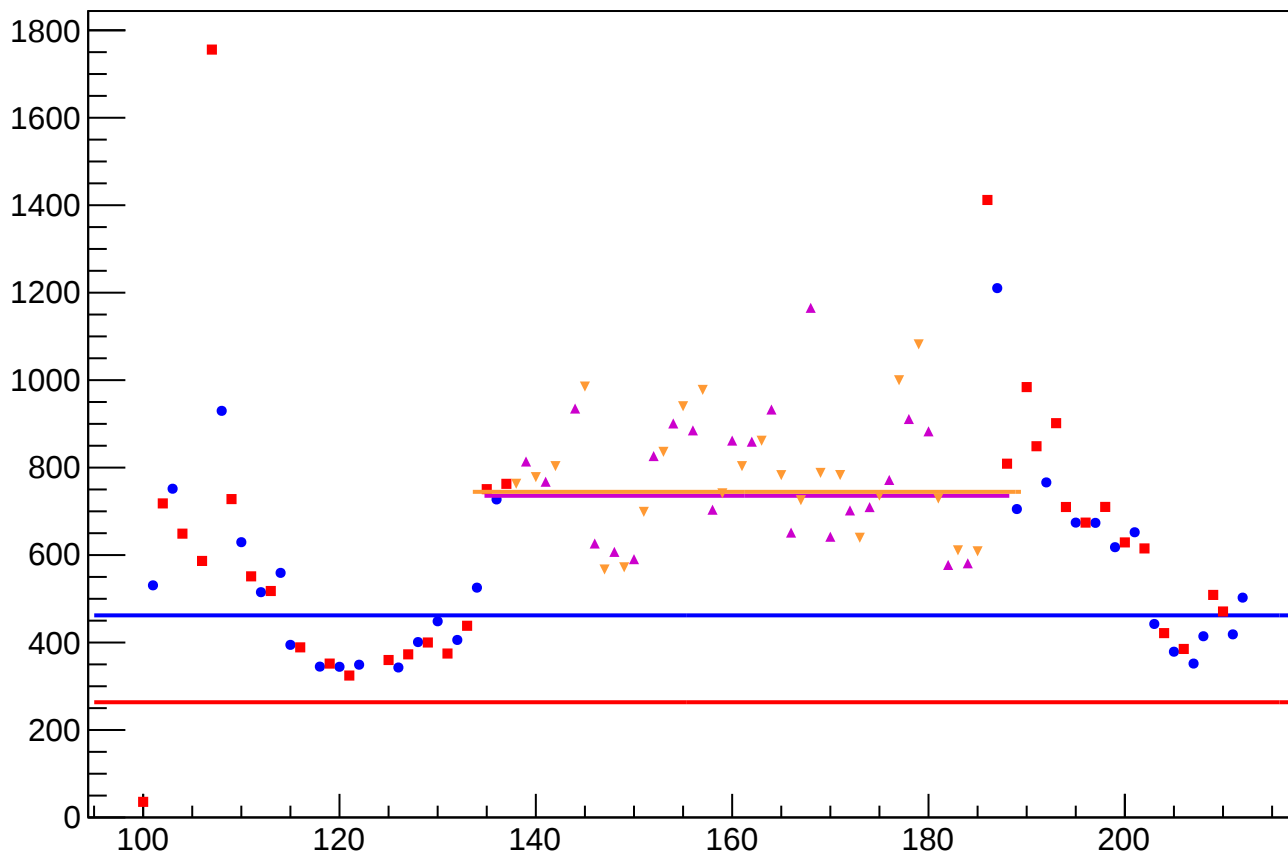
Right: -201.760 ± 76.027 $\chi^2/\text{NDF}: 86.2/60$

In: -248.054 ± 103.412 $\chi^2/\text{NDF}: 50.8/51$

Out: -167.291 ± 84.135 $\chi^2/\text{NDF}: 93.6/55$

All: -199.458 ± 65.264 $\chi^2/\text{NDF}: 144.8/107$

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 462.107+/-0.089 χ^2/NDF : 2245668.3/28

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

Right Out: 263.463+/-0.067 χ^2/NDF : 14280448.8/31

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

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

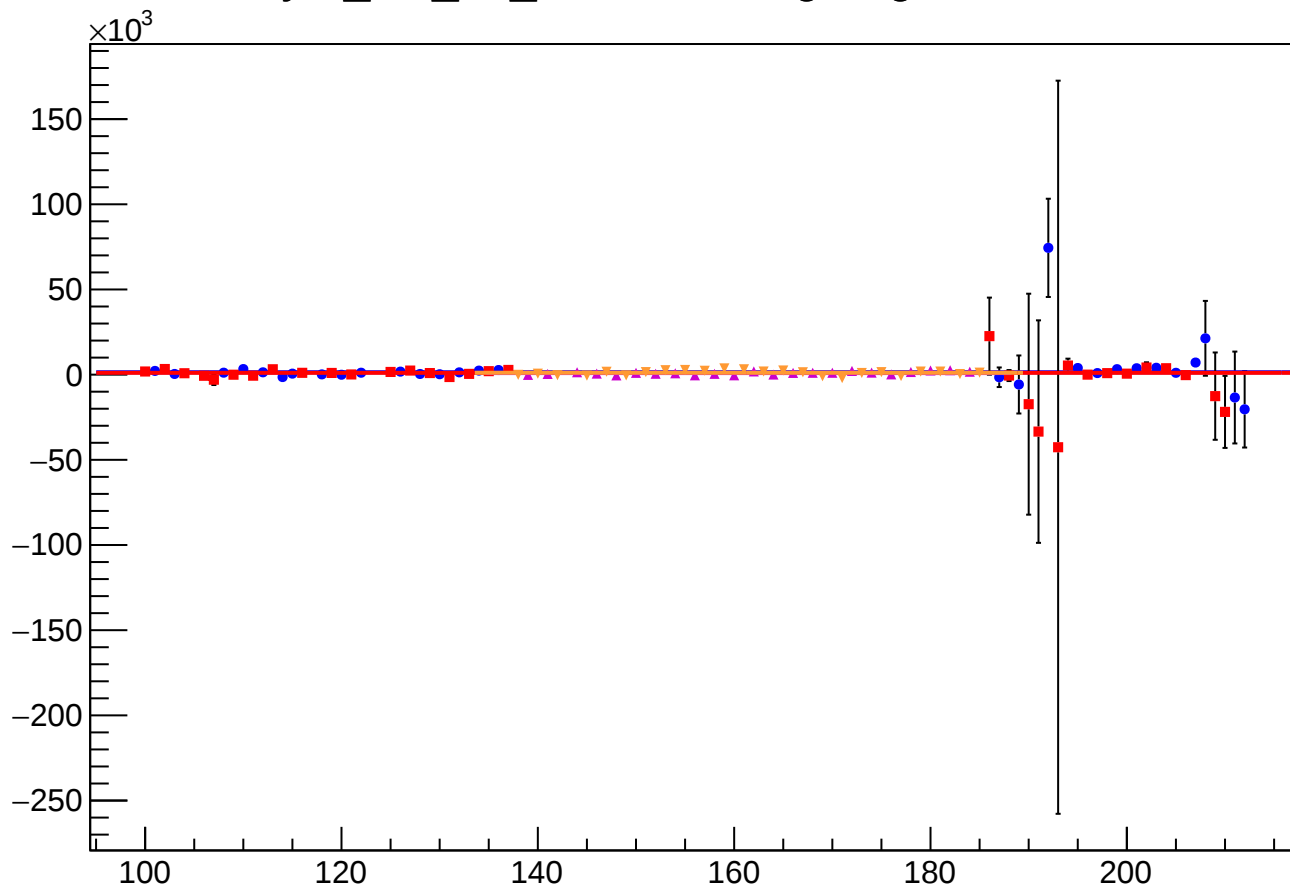
Right: 335.136+/-0.054 χ^2/NDF : 19674982.2/60

In: 553.008+/-0.073 χ^2/NDF : 6454049.4/51

Out: 367.964+/-0.059 χ^2/NDF : 26410165.7/55

All: 441.665+/-0.046 χ^2/NDF : 36717442.9/10

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1407.555 $\pm$ 280.495 χ^2 /NDF: 31.0/28

Left Out: 1105.144 $\pm$ 228.700 χ^2 /NDF:38.3/23

Right Out: 1070.316 $\pm$ 269.476 χ^2 /NDF: 29.5/31

Left In: 926.281 $\pm$ 228.196 χ^2 /NDF:15.1/22

Left: 1015.515 $\pm$ 161.537 χ^2 /NDF: 53.7/46

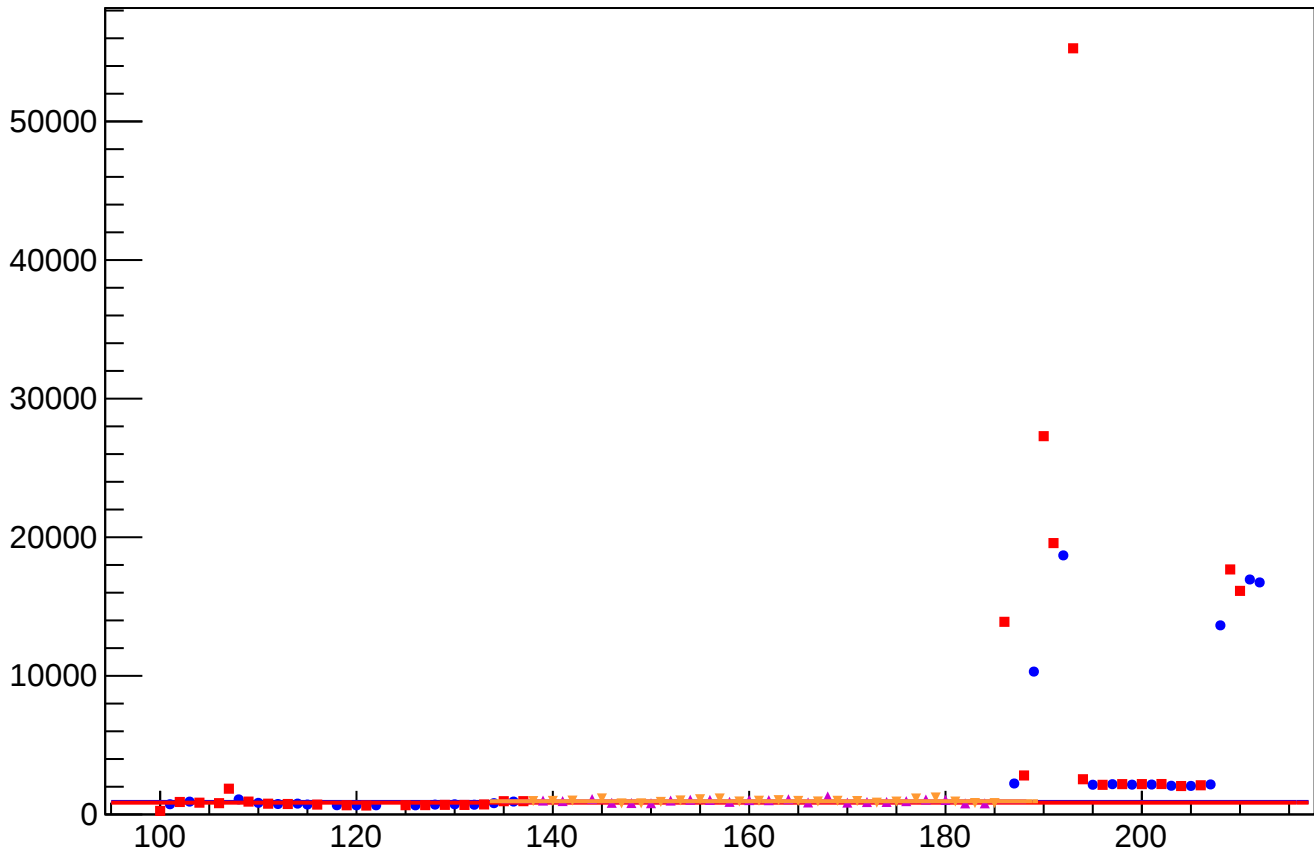
Right: 1232.181 $\pm$ 194.327 χ^2 /NDF: 61.2/60

In: 1117.956 $\pm$ 177.016 χ^2 /NDF:47.9/51

Out: 1090.562 $\pm$ 174.369 χ^2 /NDF:67.7/55

All: 1104.052 $\pm$ 124.223 χ^2 /NDF: 115.6/107

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 902.829+/-0.198 χ^2/NDF : 8396938.6/28

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

Right Out: 850.457+/-0.191 χ^2/NDF : 9042015.9/31

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

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

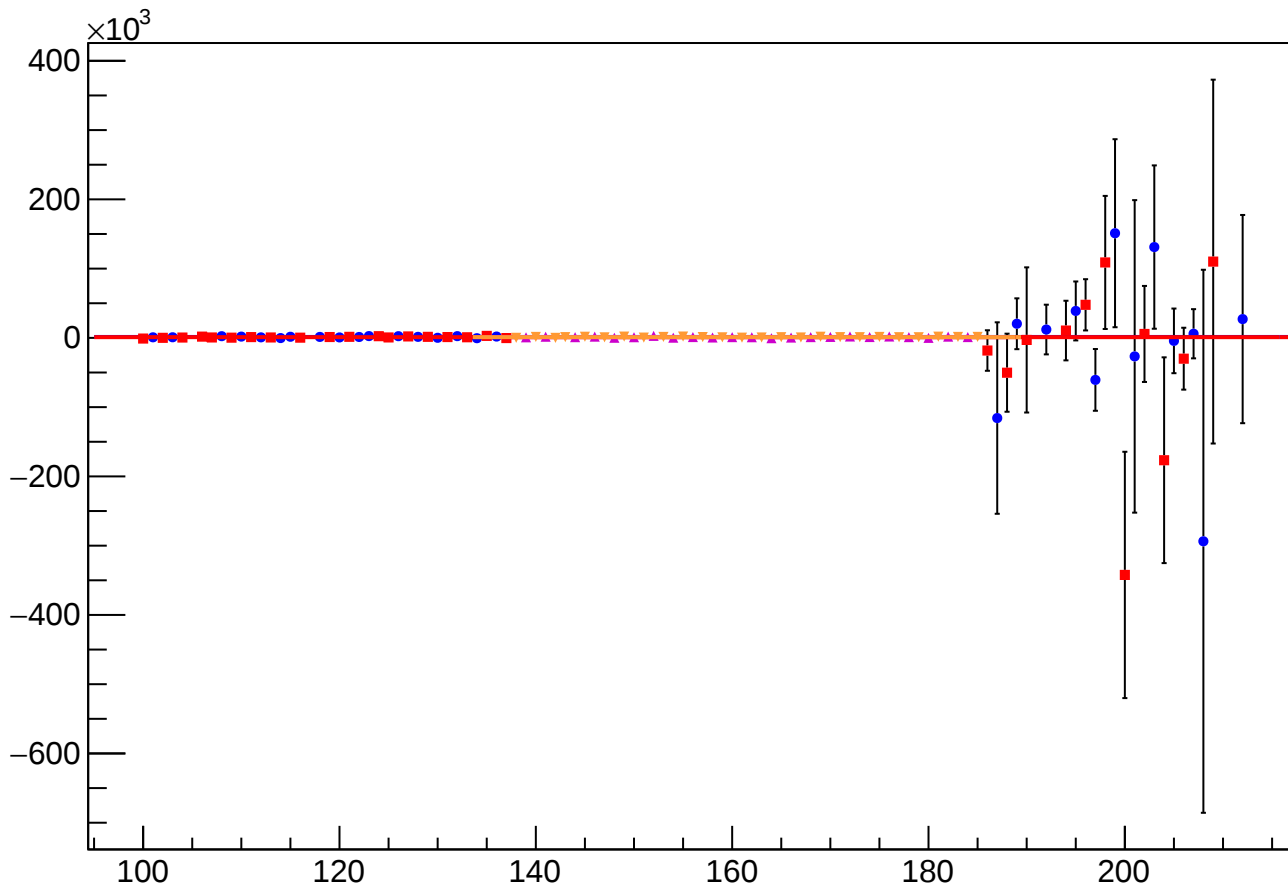
Right: 875.594+/-0.137 χ^2/NDF : 17475212.4/60

In: 928.831+/-0.125 χ^2/NDF : 8926943.2/51

Out: 910.520+/-0.123 χ^2/NDF : 9673147.3/55

All: 919.538+/-0.088 χ^2/NDF : 18610952.2/10

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.156 $\pm$ 218.579 χ^2 /NDF: 19.7/28

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

Right Out: 1039.600 $\pm$ 212.062 χ^2 /NDF: 23.5/29

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

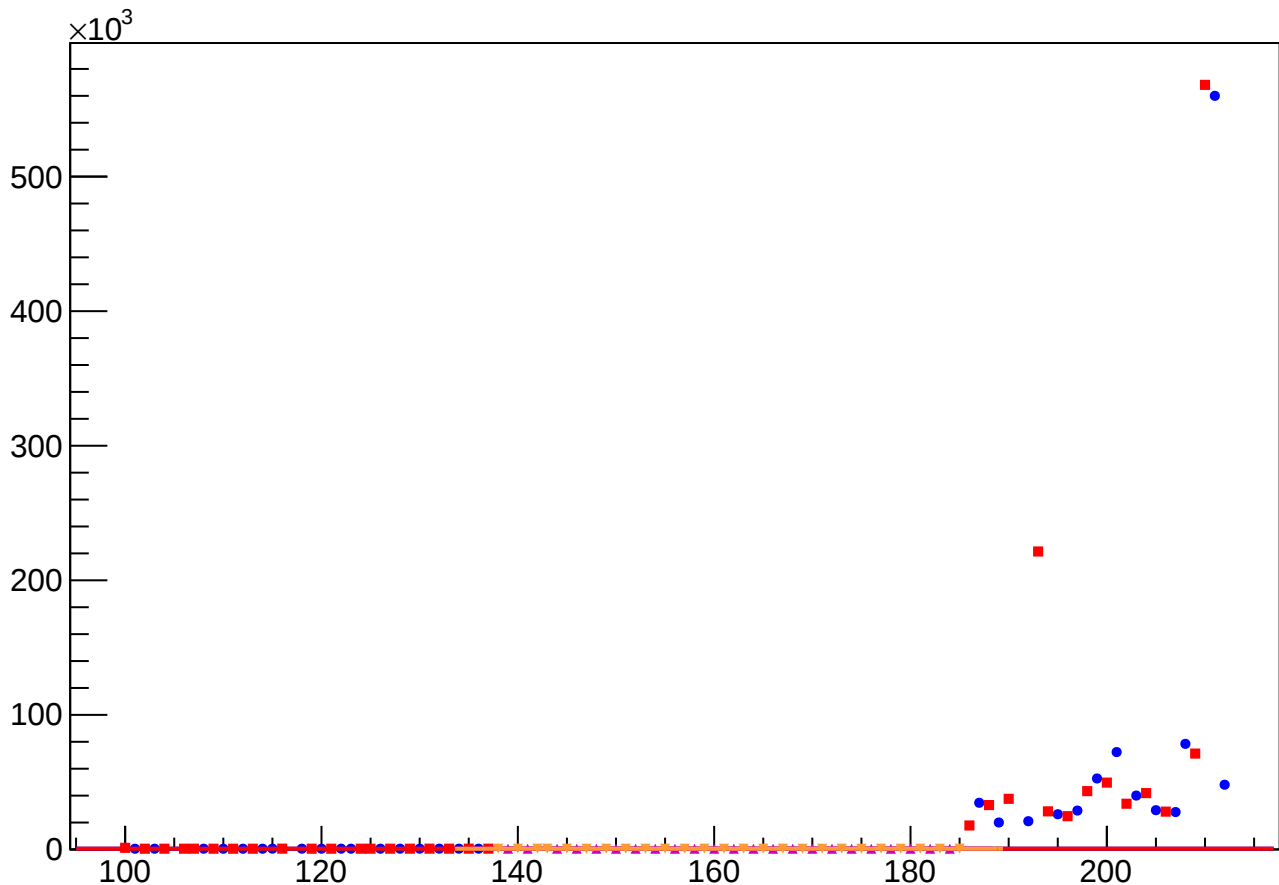
Right: 1178.058 $\pm$ 152.202 χ^2 /NDF: 44.0/58

In: 1178.346 $\pm$ 113.721 χ^2 /NDF:50.3/51

Out: 1064.364 $\pm$ 110.639 χ^2 /NDF:38.6/54

All: 1119.789 $\pm$ 79.301 χ^2 /NDF: 89.4/106

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.631+/-0.155 χ^2/NDF : 6063366.0/29

Left Out: 557.534+/-0.092 χ^2/NDF :14752.8/24

Right Out: 569.748+/-0.150 χ^2/NDF : 5729537.3/31

Left In: 556.969+/-0.094 χ^2/NDF :11209.7/22

Left: 557.259+/-0.066 χ^2/NDF : 25980.9/47

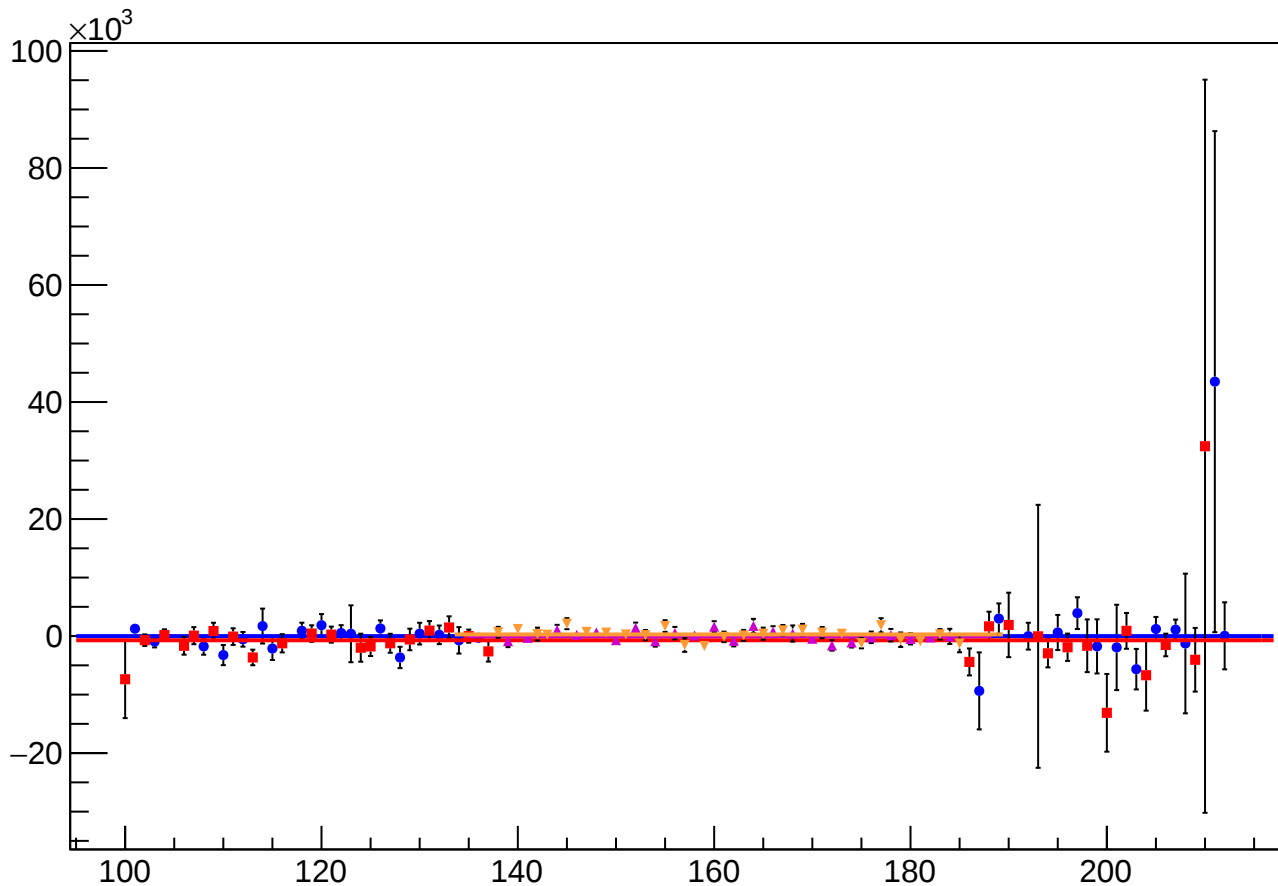
Right: 569.206+/-0.108 χ^2/NDF : 11792930.2/61

In: 560.126+/-0.080 χ^2/NDF :6078727.8/52

Out: 560.859+/-0.078 χ^2/NDF :5749118.5/56

All: 560.502+/-0.056 χ^2/NDF : 11827889.0/10

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -6.028 ± 306.433 χ^2/NDF : 27.3/29

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

Right Out: -713.197 ± 312.116 χ^2/NDF : 25.2/31

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

Left: 139.190 ± 128.612 χ^2/NDF : 48.2/47

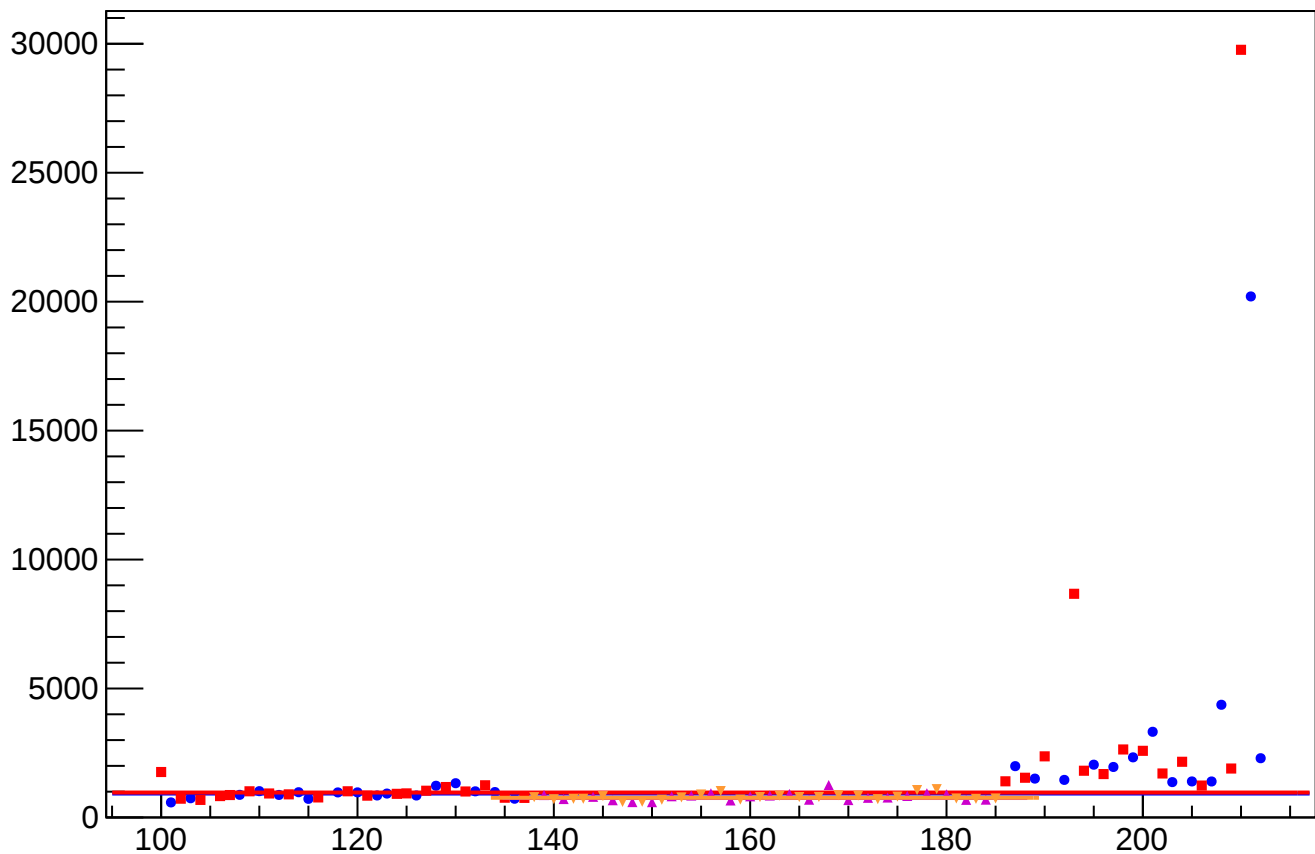
Right: -353.117 ± 218.662 χ^2/NDF : 55.2/61

In: -7.636 ± 157.357 χ^2/NDF : 47.5/52

Out: 32.644 ± 156.203 χ^2/NDF : 59.6/56

All: 12.653 ± 110.858 χ^2/NDF : 107.1/109

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 927.058+/-0.217 χ^2/NDF : 3015029.7/29

Left Out: 763.085+/-0.128 χ^2/NDF : 753700.1/24

Right Out: 966.345+/-0.221 χ^2/NDF : 2688598.1/31

Left In: 754.099+/-0.130 χ^2/NDF : 931829.3/22

Left: 758.665+/-0.091 χ^2/NDF : 1687969.6/47

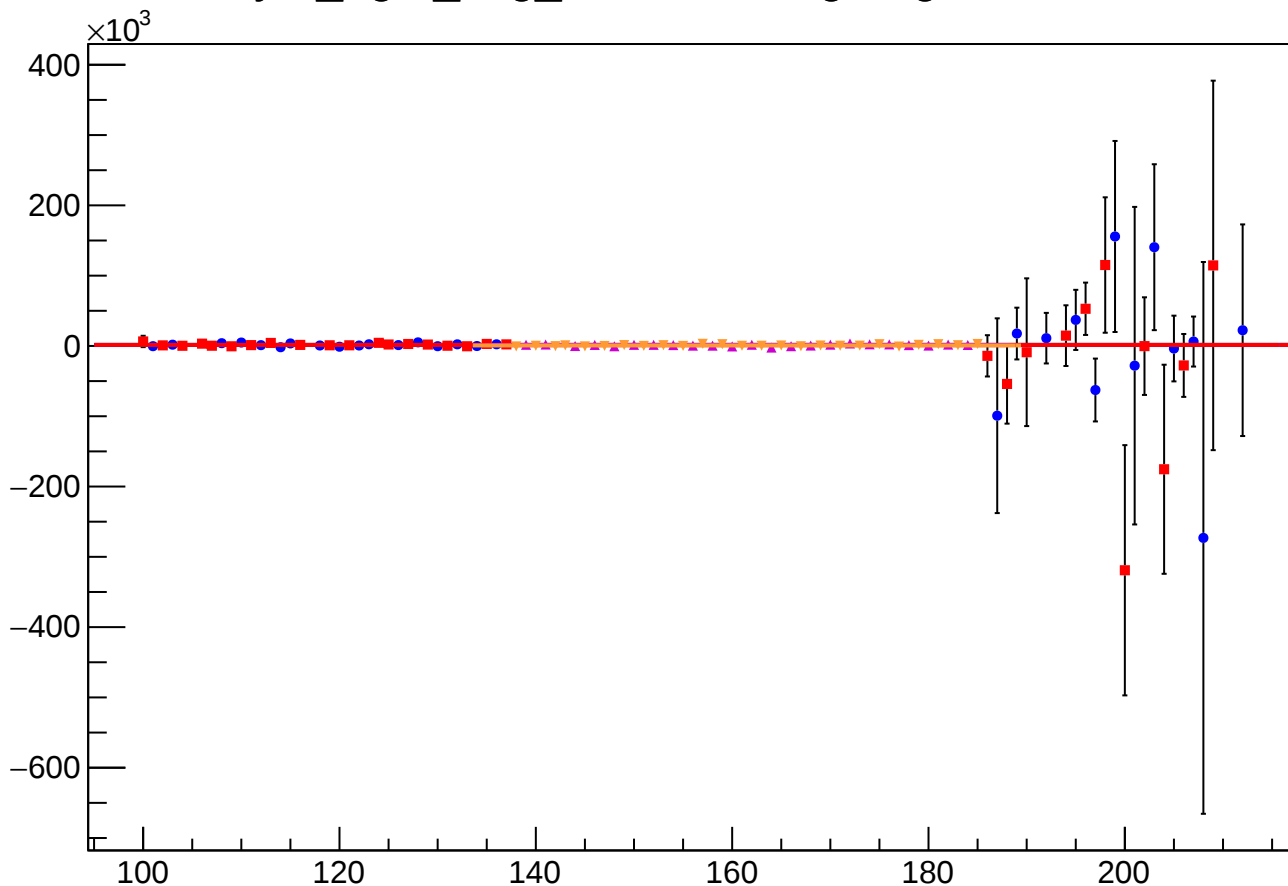
Right: 946.341+/-0.155 χ^2/NDF : 5719763.6/61

In: 799.707+/-0.111 χ^2/NDF : 4416003.5/52

Out: 813.995+/-0.110 χ^2/NDF : 4078069.8/56

All: 806.904+/-0.078 χ^2/NDF : 8502378.2/109

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.155+/-402.535 χ^2/NDF : 23.9/28

Left Out: 739.641+/-225.535 χ^2/NDF : 21.5/24

Right Out: 1485.919+/-400.598 χ^2/NDF : 21.9/29

Left In: 1124.587+/-230.065 χ^2/NDF : 25.4/22

Left: 928.287+/-161.055 χ^2/NDF : 48.3/47

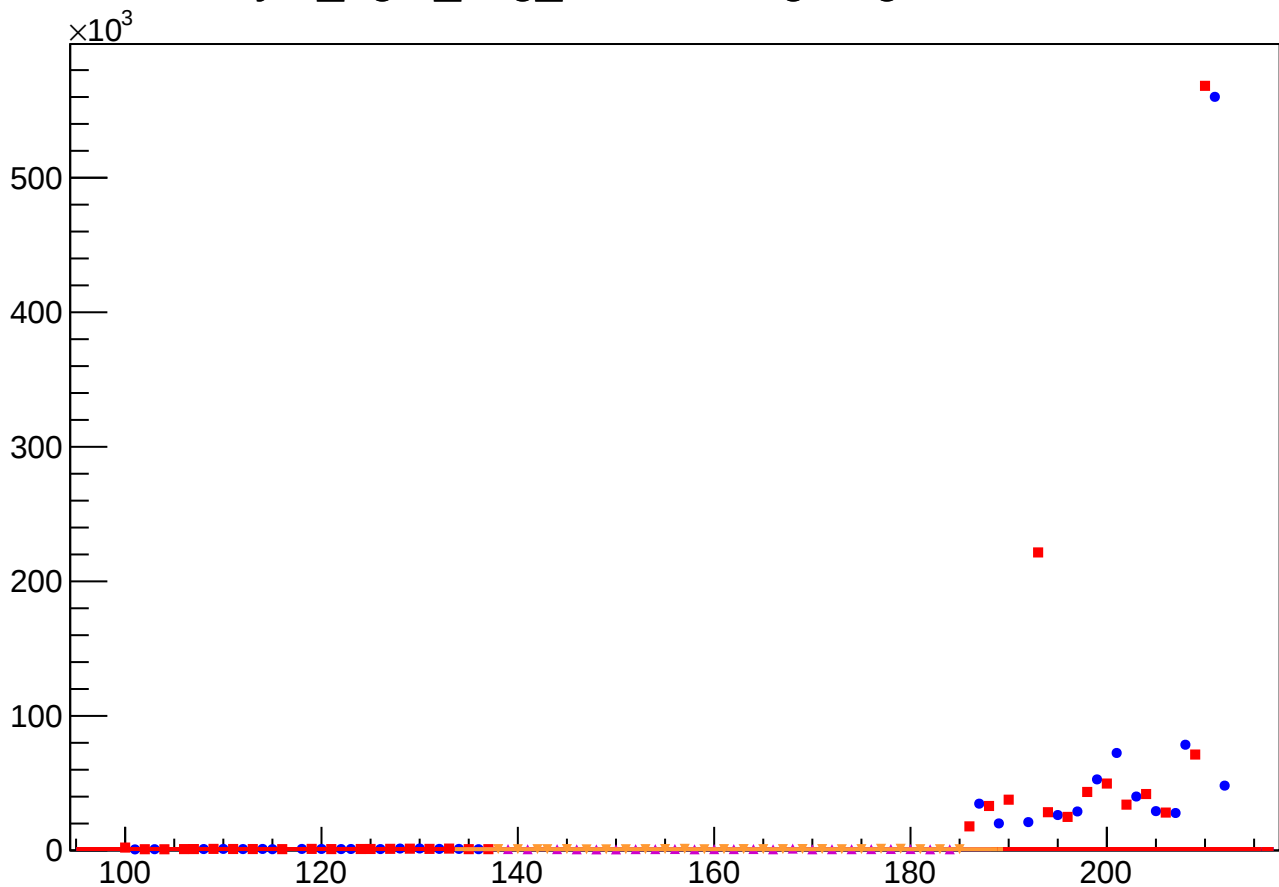
Right: 1493.500+/-283.948 χ^2/NDF : 45.8/58

In: 1217.308+/-199.743 χ^2/NDF : 49.9/51

Out: 919.254+/-196.529 χ^2/NDF : 46.1/54

All: 1065.864+/-140.089 χ^2/NDF : 97.1/106

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1038.995 $\pm$ 0.285 χ^2 /NDF: 6194919.5/29

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

Right Out: 1073.336 $\pm$ 0.283 χ^2 /NDF: 5725844.0/31

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

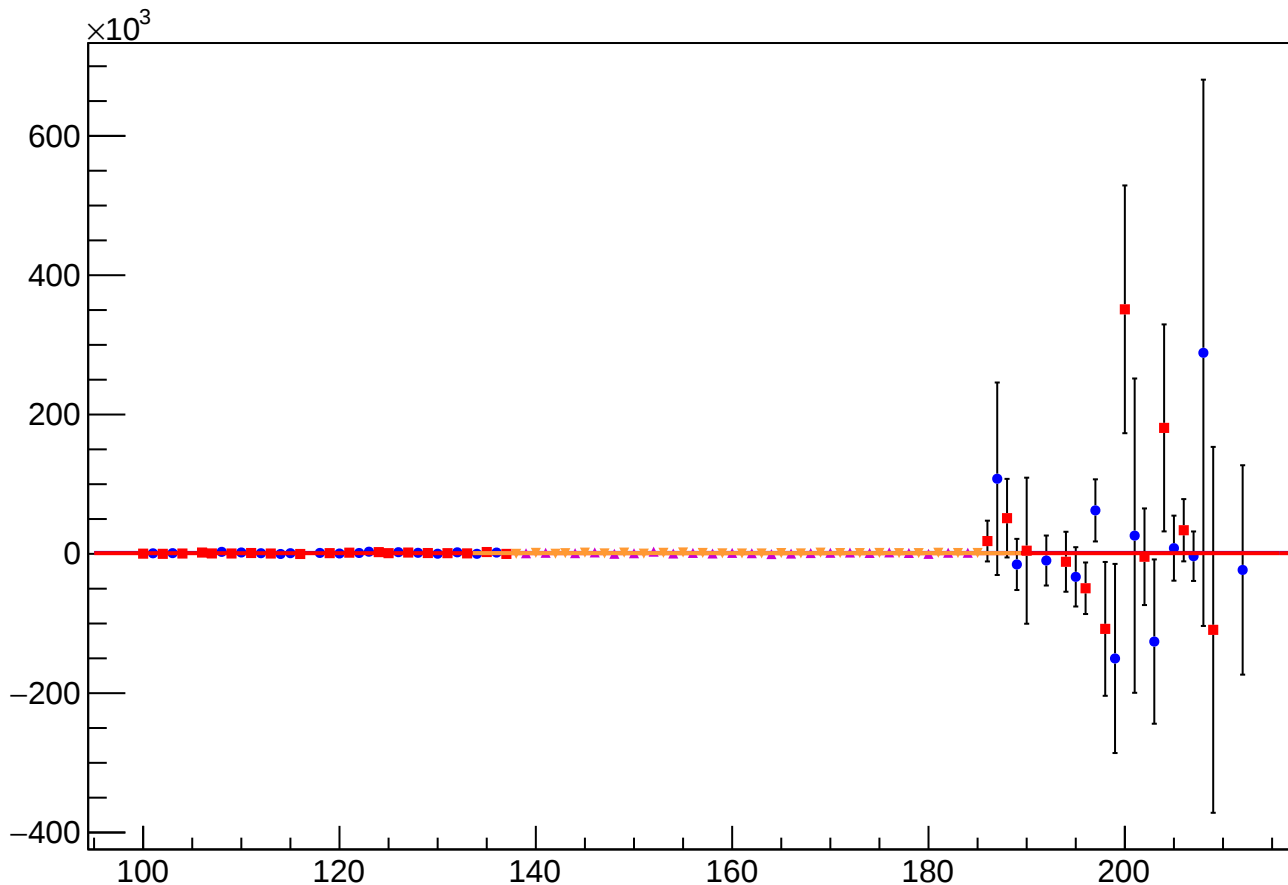
Right: 1056.248 $\pm$ 0.201 χ^2 /NDF: 11928076.8/61

In: 975.413 $\pm$ 0.141 χ^2 /NDF: 6704514.1/52

Out: 988.990 $\pm$ 0.139 χ^2 /NDF: 6205547.7/56

All: 982.312 $\pm$ 0.099 χ^2 /NDF: 12914757.2/10

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.436+/-218.833 χ^2/NDF : 18.4/28

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

Right Out: 966.061+/-208.597 χ^2/NDF : 22.6/29

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

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

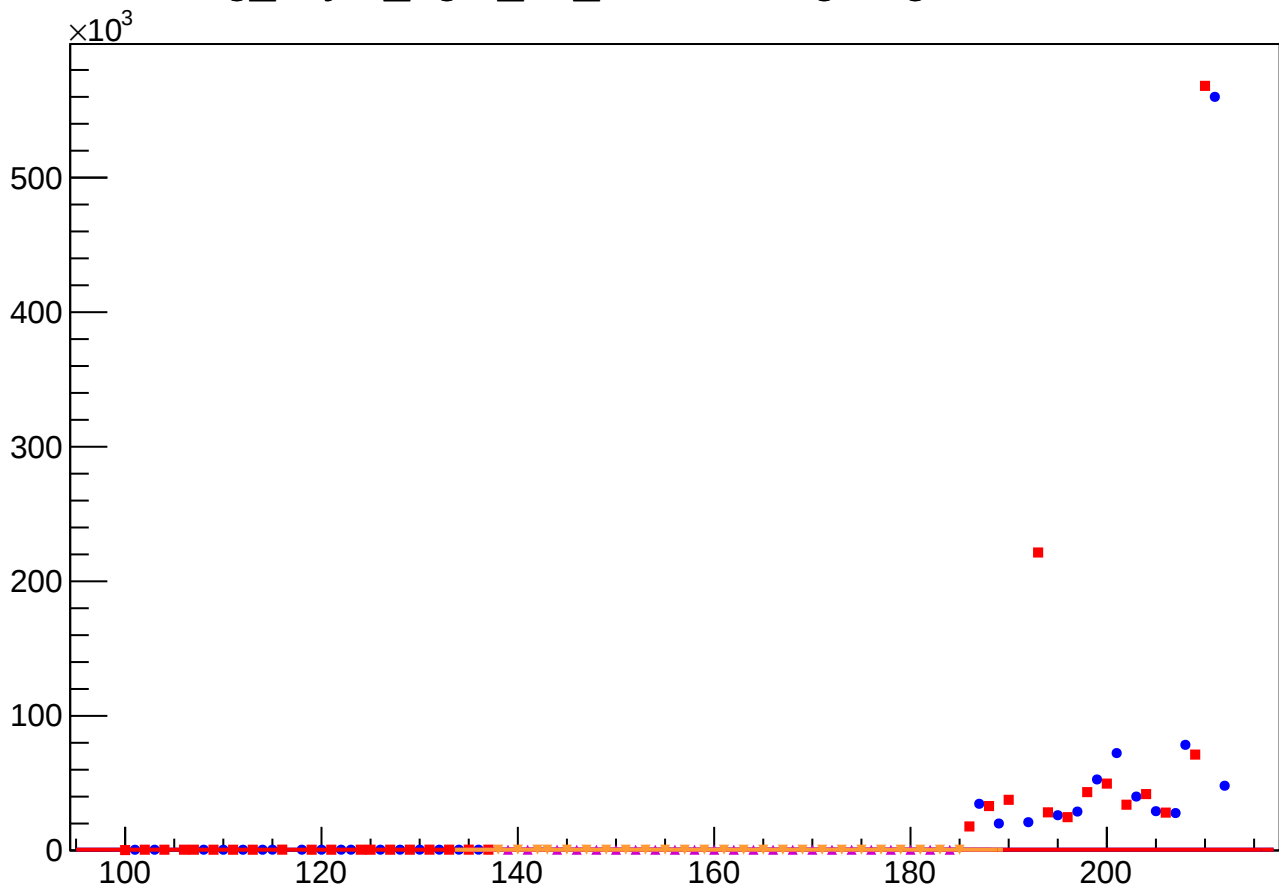
Right: 1146.193+/-150.989 χ^2/NDF : 42.6/58

In: 1231.423+/-113.851 χ^2/NDF : 51.0/51

Out: 1053.687+/-110.219 χ^2/NDF : 37.8/54

All: 1139.675+/-79.189 χ^2/NDF : 90.0/106

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.294 $\pm$ 0.155 χ^2 /NDF: 6063552.4/29

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

Right Out: 558.741 $\pm$ 0.148 χ^2 /NDF: 5817253.1/31

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

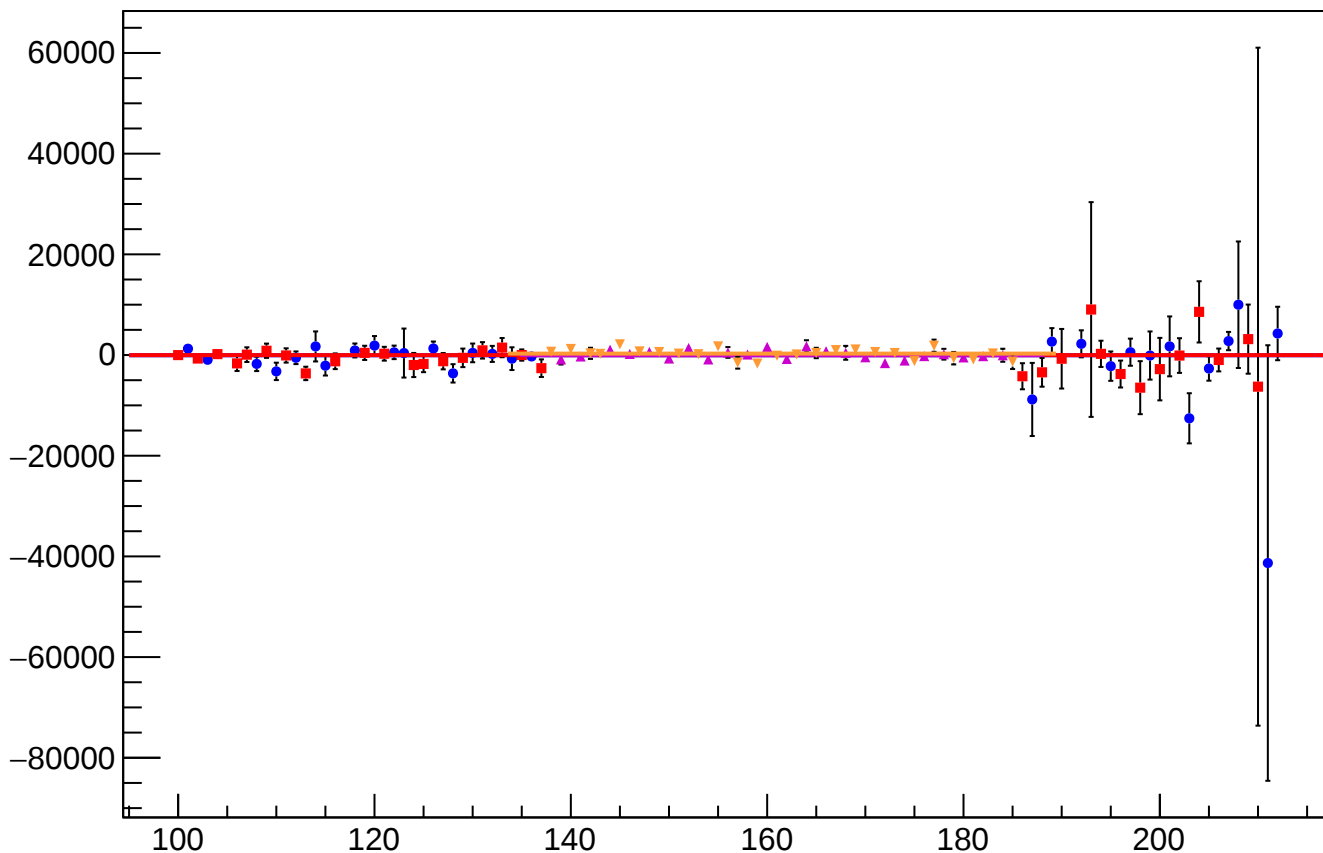
Right: 563.765 $\pm$ 0.107 χ^2 /NDF: 11883242.7/61

In: 560.763 $\pm$ 0.081 χ^2 /NDF:6078997.2/52

Out: 558.278 $\pm$ 0.078 χ^2 /NDF:5832052.0/56

All: 559.480 $\pm$ 0.056 χ^2 /NDF: 11911540.9/10

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -48.752+/-309.269 χ^2/NDF : 33.1/29

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

Right Out: -22.705+/-38.926 χ^2/NDF : 26.2/31

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

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

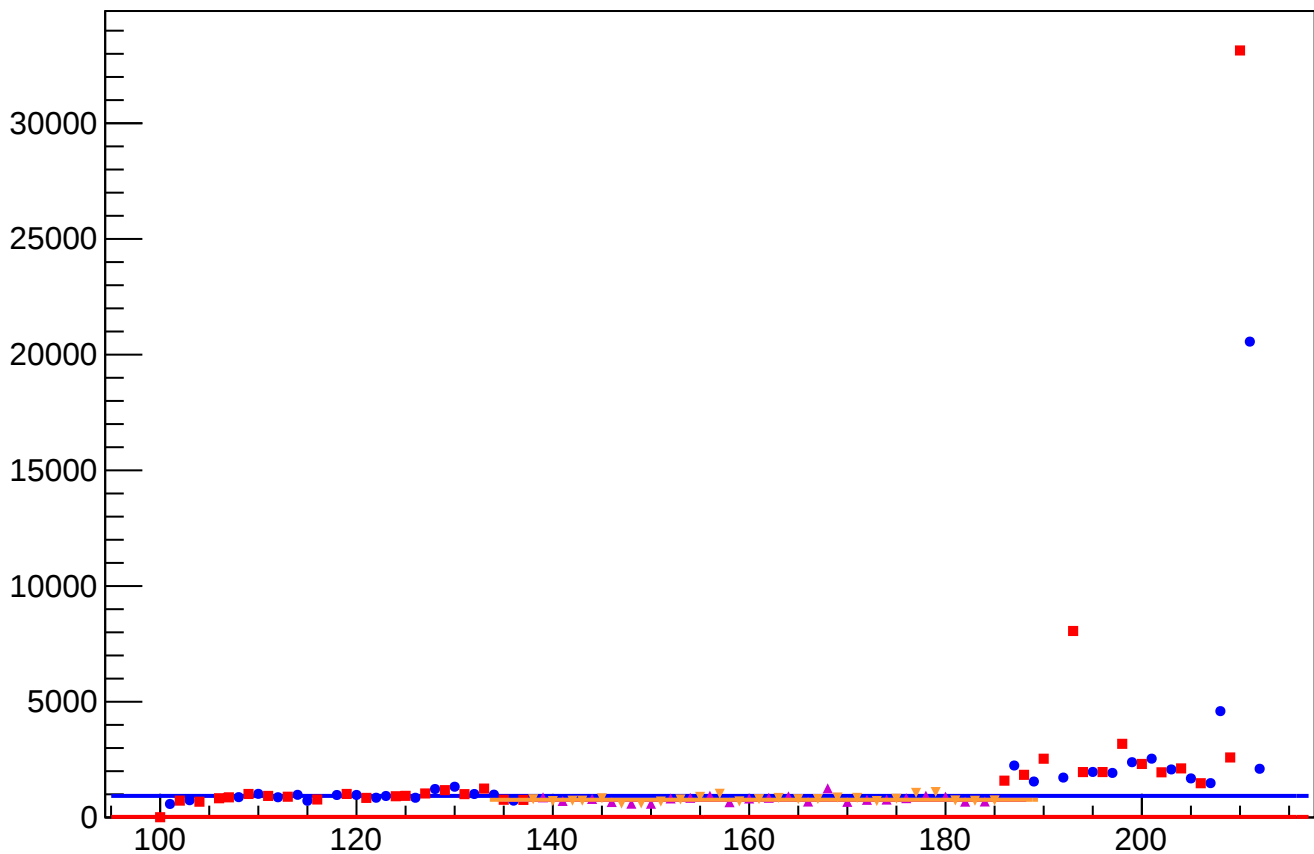
Right: -23.112+/-38.621 χ^2/NDF : 59.3/61

In: -18.095+/-157.795 χ^2/NDF : 53.2/52

Out: -9.187+/-38.051 χ^2/NDF : 55.7/56

All: -9.677+/-36.991 χ^2/NDF : 108.9/109

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 931.522+/-0.219

χ^2/NDF : 3204141.5/29

Left Out: 763.307+/-0.128

χ^2/NDF : 753728.9/24

Right Out: 24.562+/-0.028

χ^2/NDF : 21313163.7/31

Left In: 754.483+/-0.130

χ^2/NDF : 931536.8/22

Left: 758.967+/-0.091

χ^2/NDF : 1687616.8/47

Right: 38.706+/-0.027

χ^2/NDF : 41449356.9/61

In: 800.570+/-0.112

χ^2/NDF : 4620452.2/52

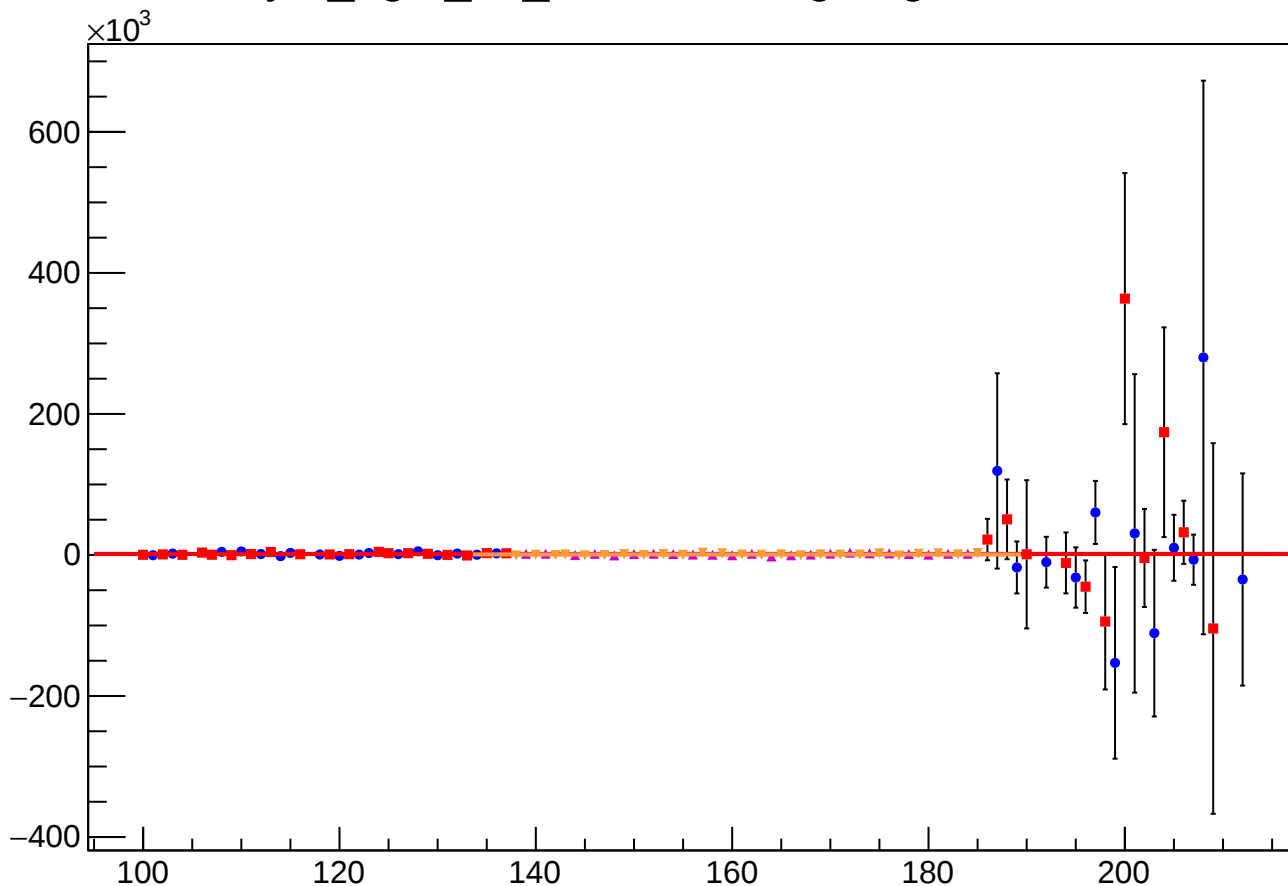
Out: 57.401+/-0.027

χ^2/NDF : 54086958.3/56

All: 98.241+/-0.026

χ^2/NDF : 100632411.1/10

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1515.566+/-402.758 χ^2/NDF : 24.1/28

Left Out: 742.825+/-225.658 χ^2/NDF : 20.2/24

Right Out: 1290.480+/-376.580 χ^2/NDF : 22.4/29

Left In: 1176.288+/-230.229 χ^2/NDF : 24.2/22

Left: 955.211+/-161.156 χ^2/NDF : 46.3/47

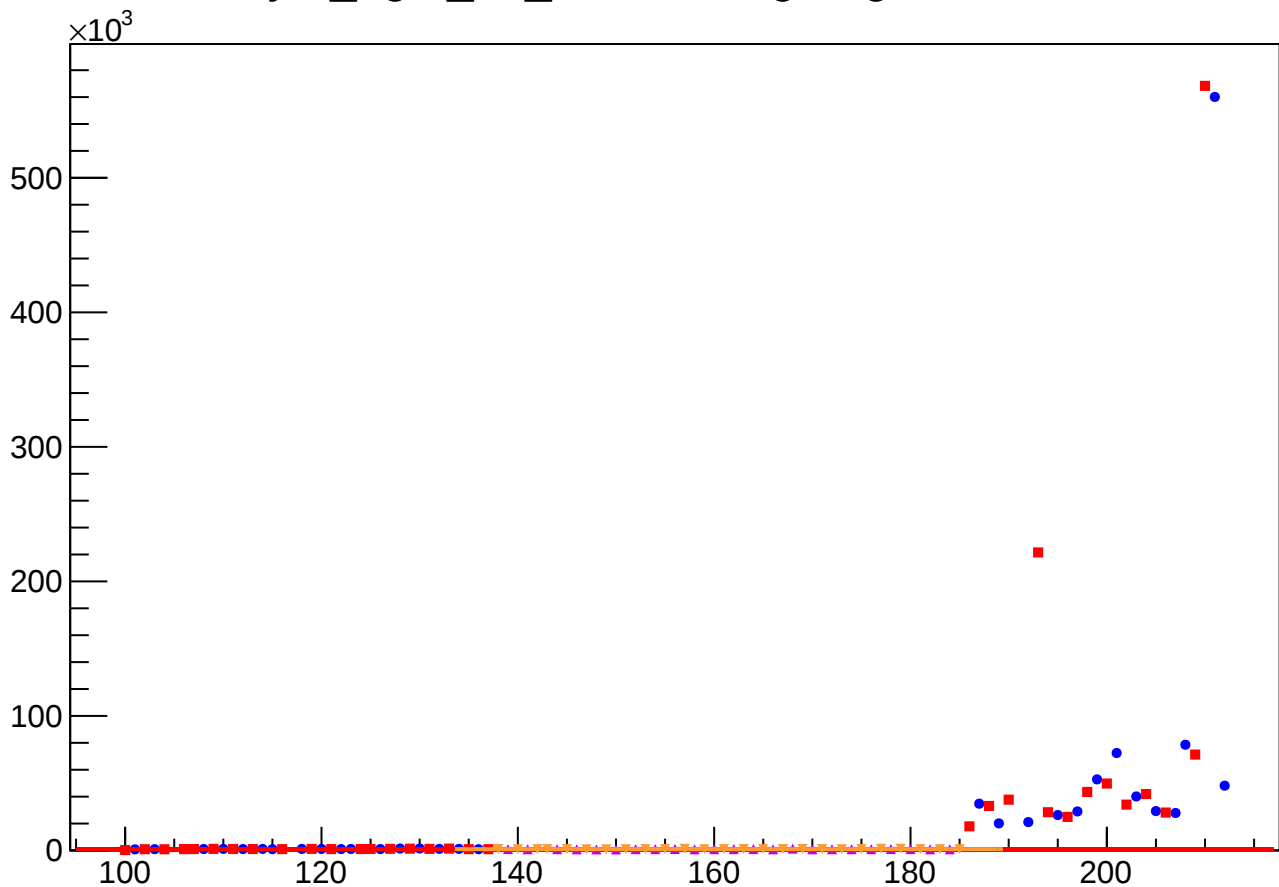
Right: 1395.471+/-275.071 χ^2/NDF : 46.6/58

In: 1259.847+/-199.877 χ^2/NDF : 48.9/51

Out: 887.519+/-193.566 χ^2/NDF : 44.2/54

All: 1067.712+/-139.049 χ^2/NDF : 94.8/106

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1039.578 $\pm$ 0.285 χ^2 /NDF: 6195587.9/29

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

Right Out: 977.833 $\pm$ 0.266 χ^2 /NDF: 6598613.3/31

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

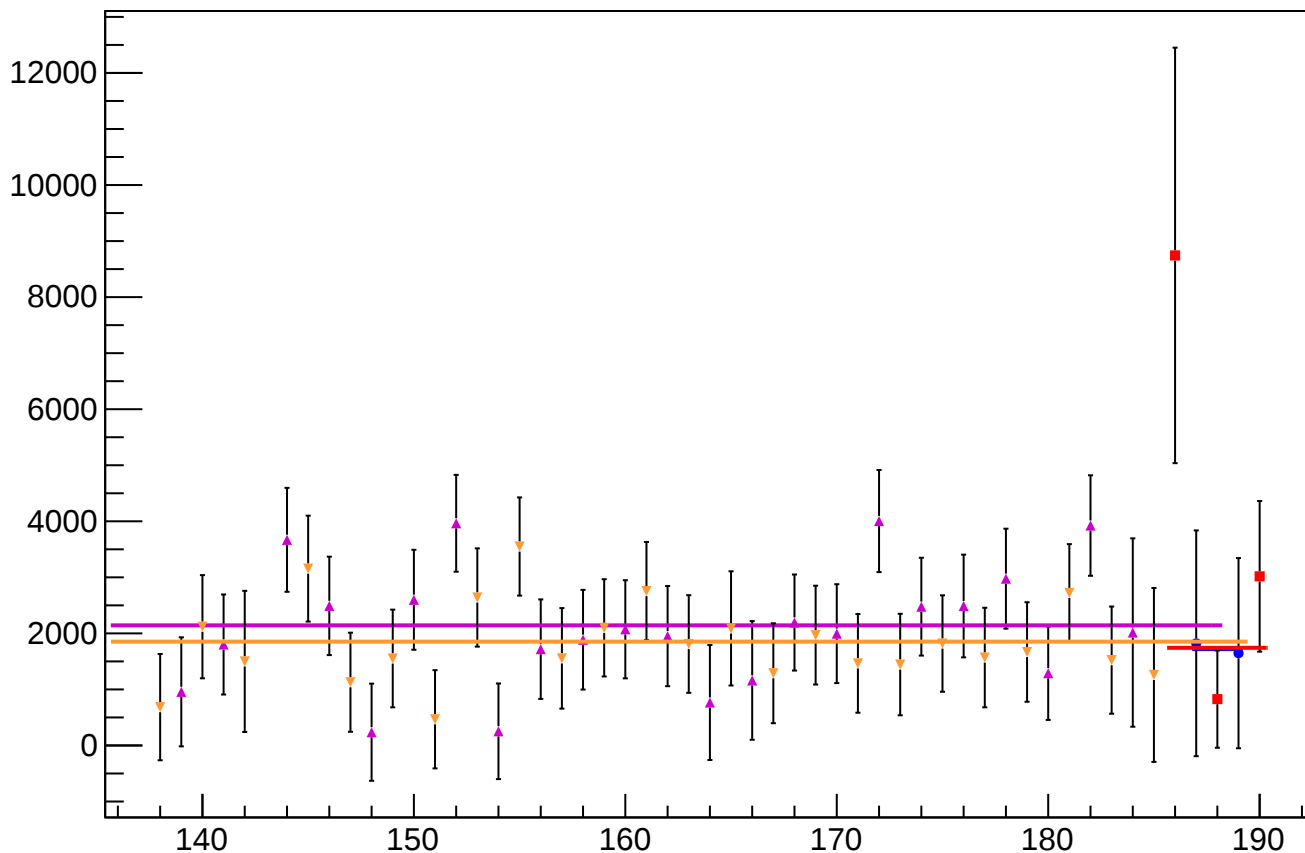
Right: 1006.634 $\pm$ 0.195 χ^2 /NDF: 12819281.5/61

In: 976.080 $\pm$ 0.141 χ^2 /NDF: 6704614.6/52

Out: 966.754 $\pm$ 0.137 χ^2 /NDF: 6963803.5/56

All: 971.267 $\pm$ 0.098 χ^2 /NDF: 13670664.6/100

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

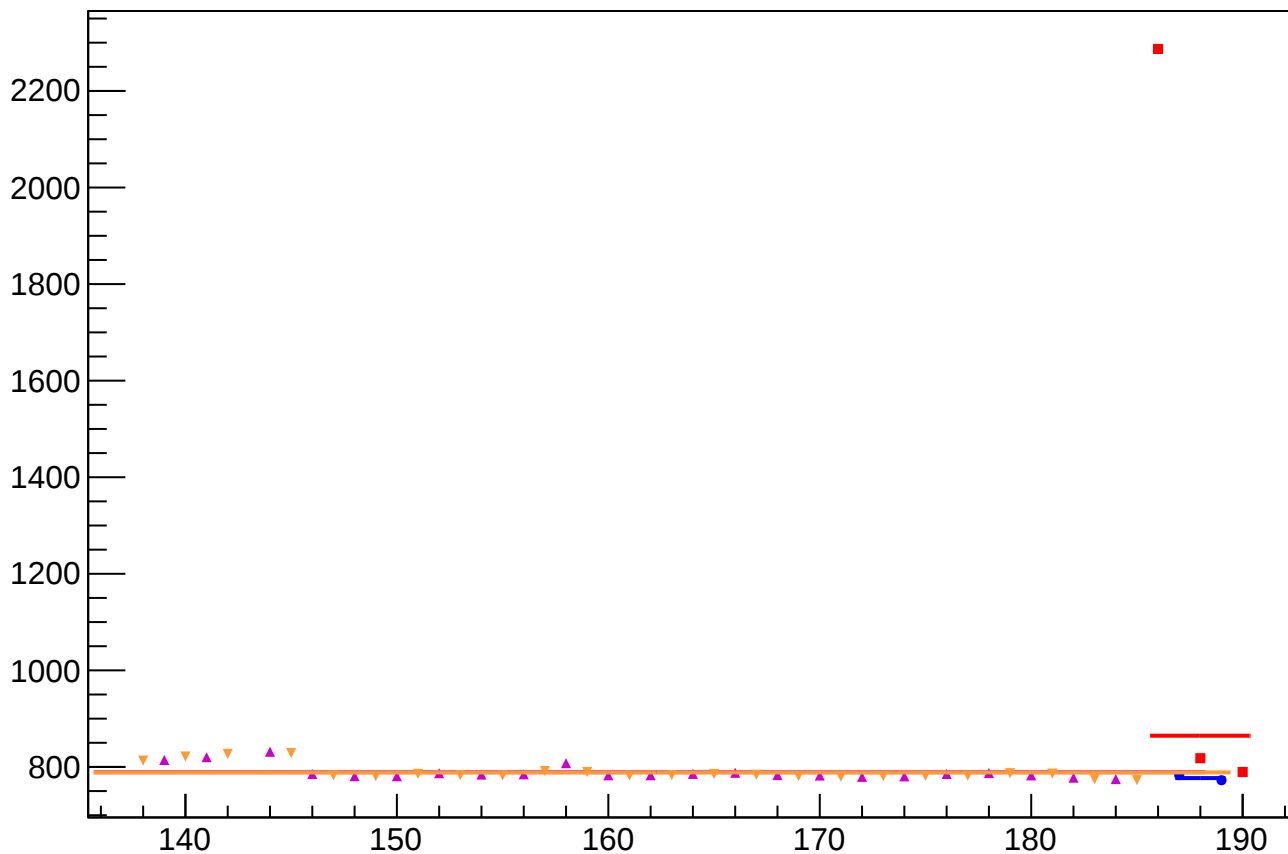
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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 $\pm$ 0.918 χ^2/NDF : 32.5/1

Left Out: 788.658 $\pm$ 0.133 χ^2/NDF : 11499.7/23

Right Out: 864.658 $\pm$ 0.506 χ^2/NDF : 306489.7/2

Left In: 789.176 $\pm$ 0.134 χ^2/NDF : 10860.4/22

Left: 788.914 $\pm$ 0.094 χ^2/NDF : 22367.7/46

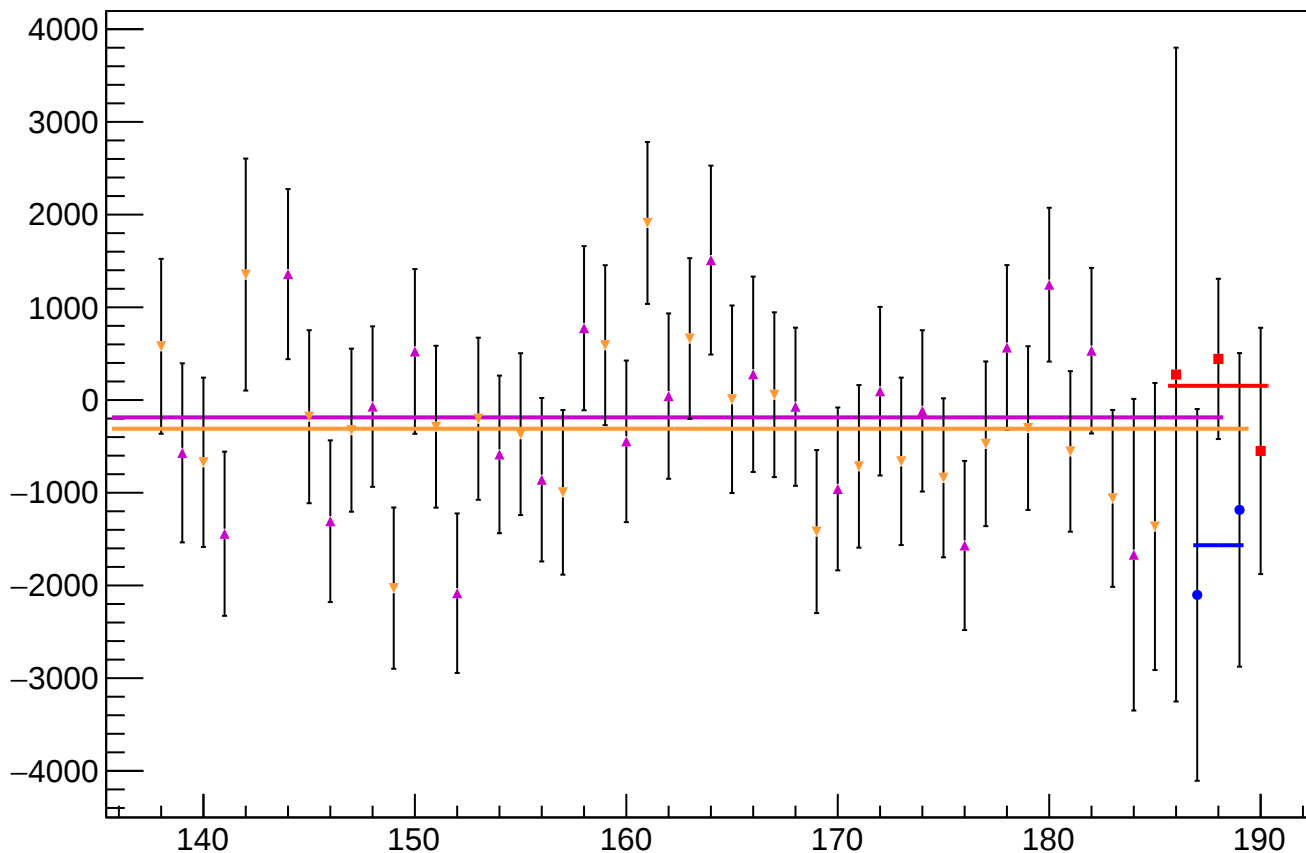
Right: 844.207 $\pm$ 0.443 χ^2/NDF : 313539.0/4

In: 788.918 $\pm$ 0.133 χ^2/NDF : 11068.4/24

Out: 793.541 $\pm$ 0.128 χ^2/NDF : 339118.2/26

All: 791.315 $\pm$ 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

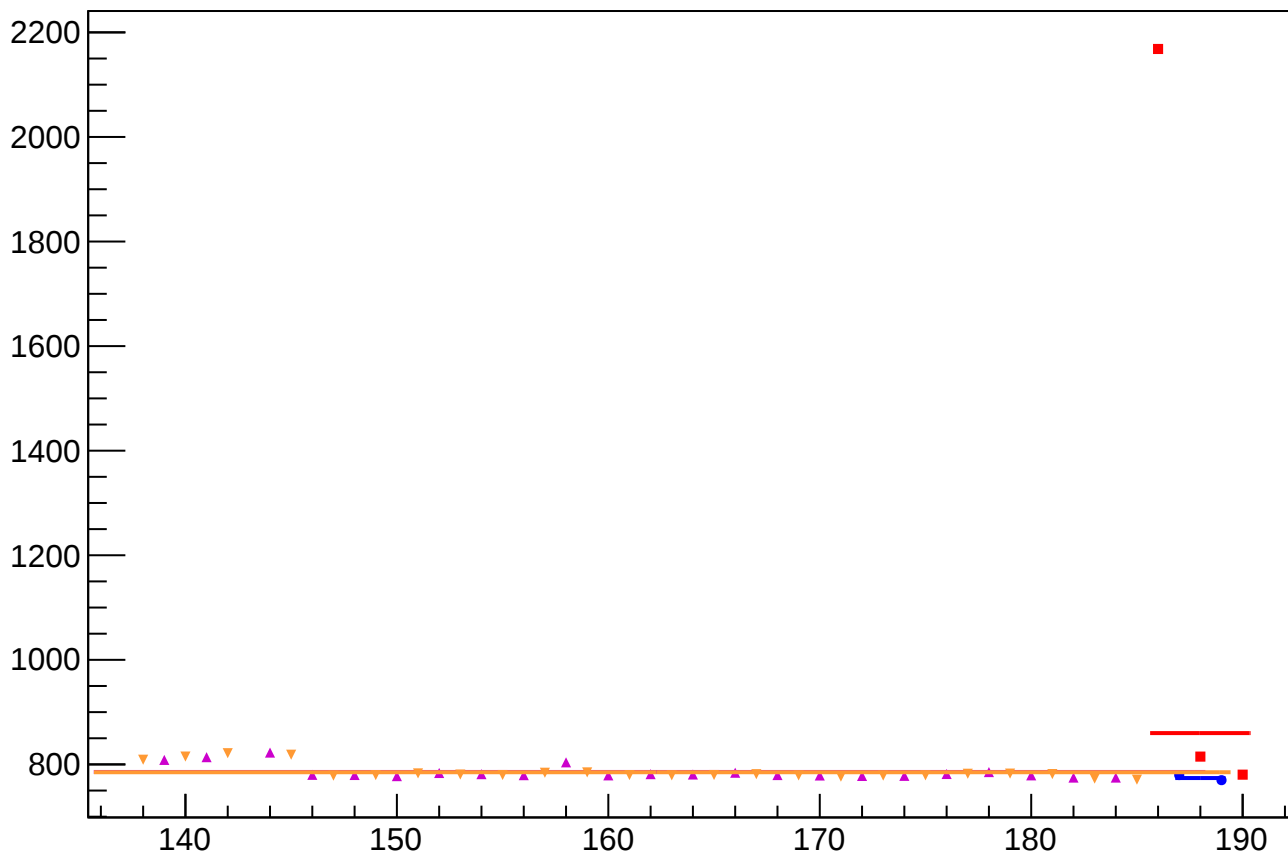
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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 $\chi^2/\text{NDF}: 27.7/1$

Left Out: 785.050 ± 0.132 $\chi^2/\text{NDF}: 9365.3/23$

Right Out: 859.900 ± 0.502 $\chi^2/\text{NDF}: 287948.2/2$

Left In: 785.562 ± 0.134 $\chi^2/\text{NDF}: 9033.0/22$

Left: 785.302 ± 0.094 $\chi^2/\text{NDF}: 18405.7/46$

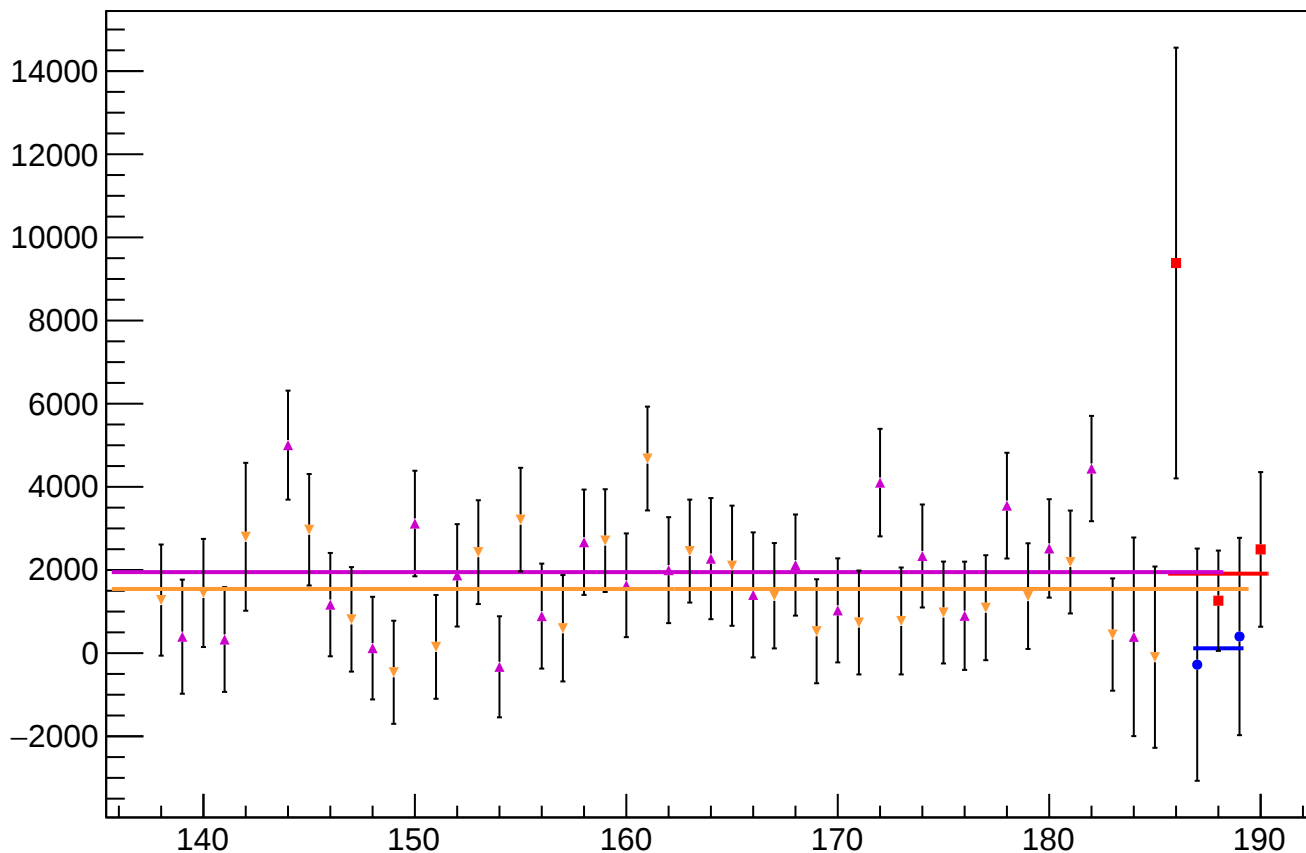
Right: 839.990 ± 0.440 $\chi^2/\text{NDF}: 294774.5/4$

In: 785.318 ± 0.132 $\chi^2/\text{NDF}: 9219.5/24$

Out: 789.888 ± 0.128 $\chi^2/\text{NDF}: 318126.2/26$

All: 787.688 ± 0.092 $\chi^2/\text{NDF}: 327963.5/51$

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

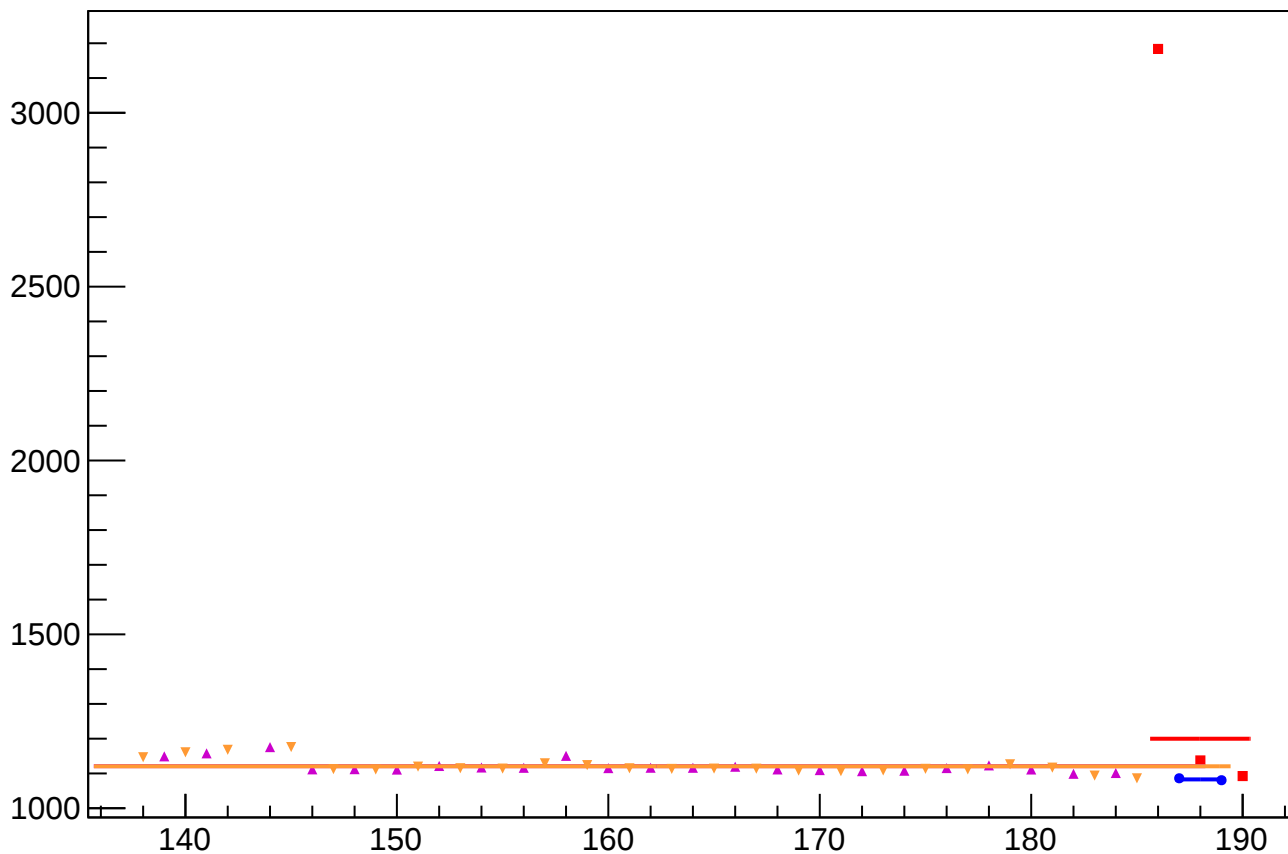
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

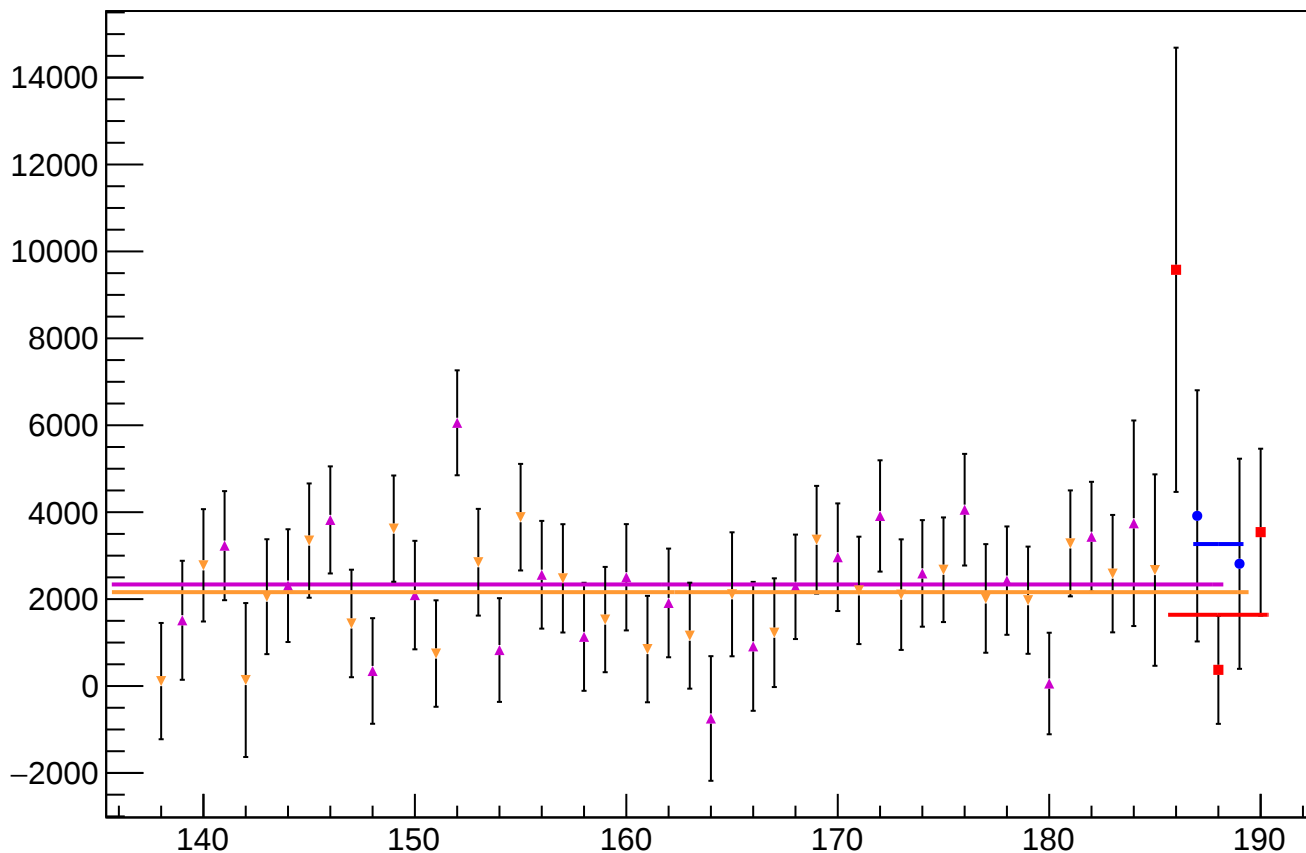
Right: 1172.741+/-0.616 χ^2/NDF : 311788.3/4

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

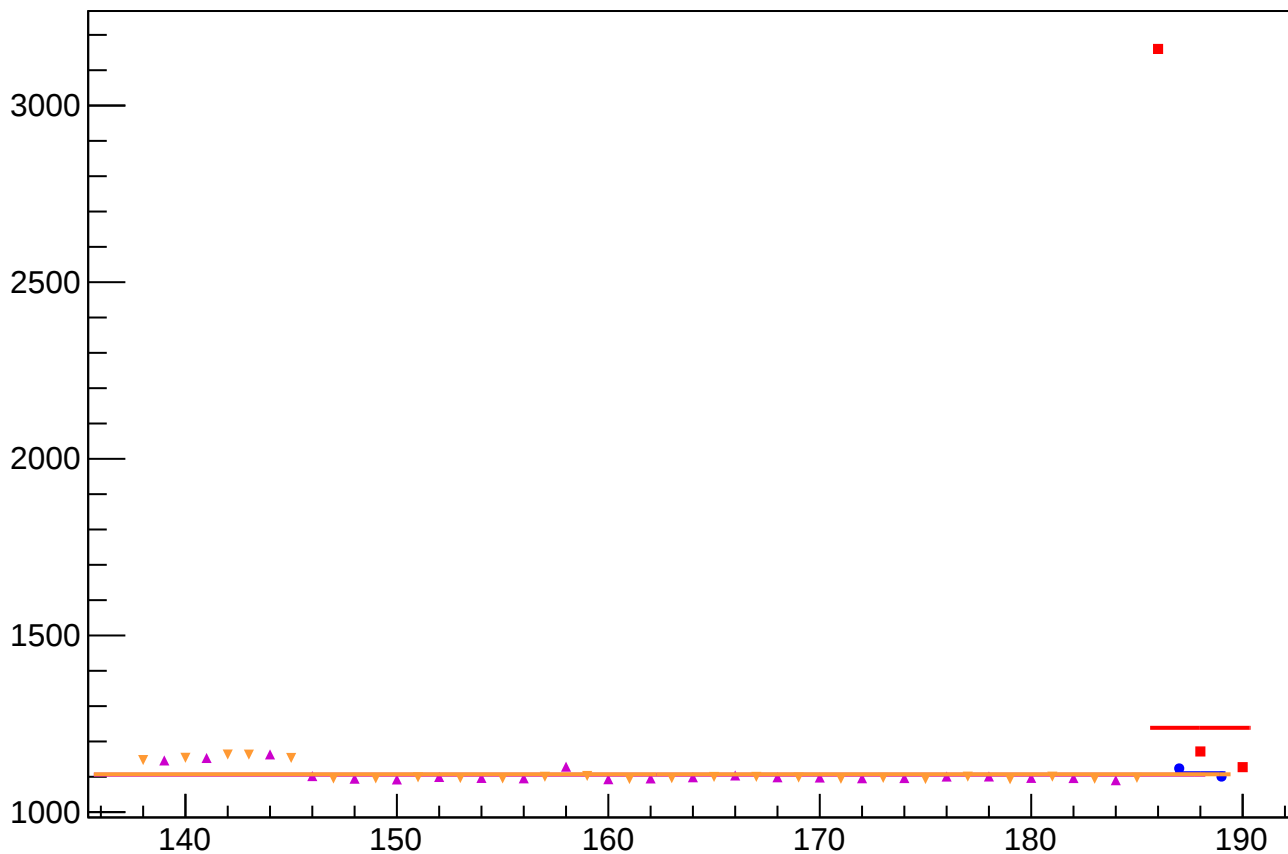
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

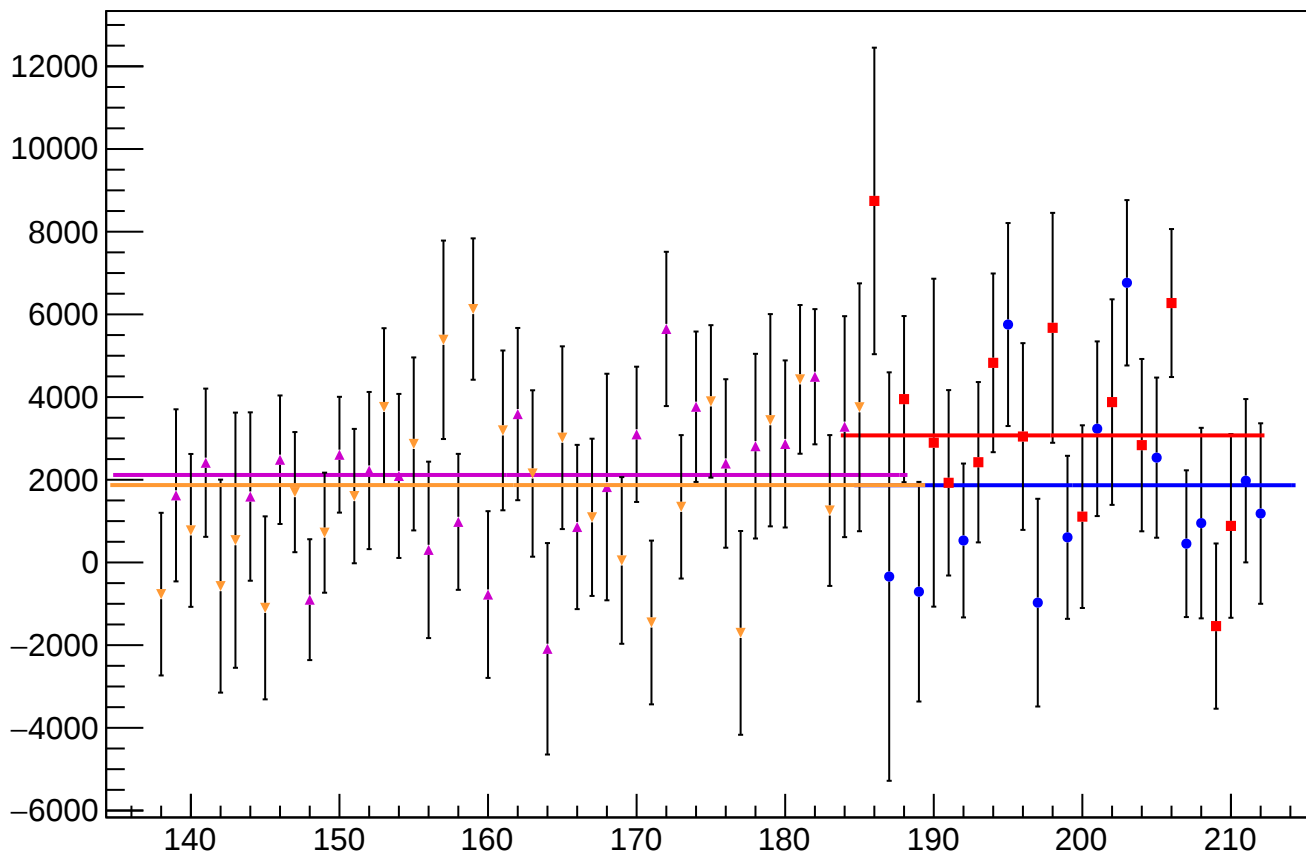
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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: 1867.816+/-601.313 χ^2/NDF : 13.3/12

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

Right Out: 3072.983+/-602.981 χ^2/NDF : 14.8/13

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

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

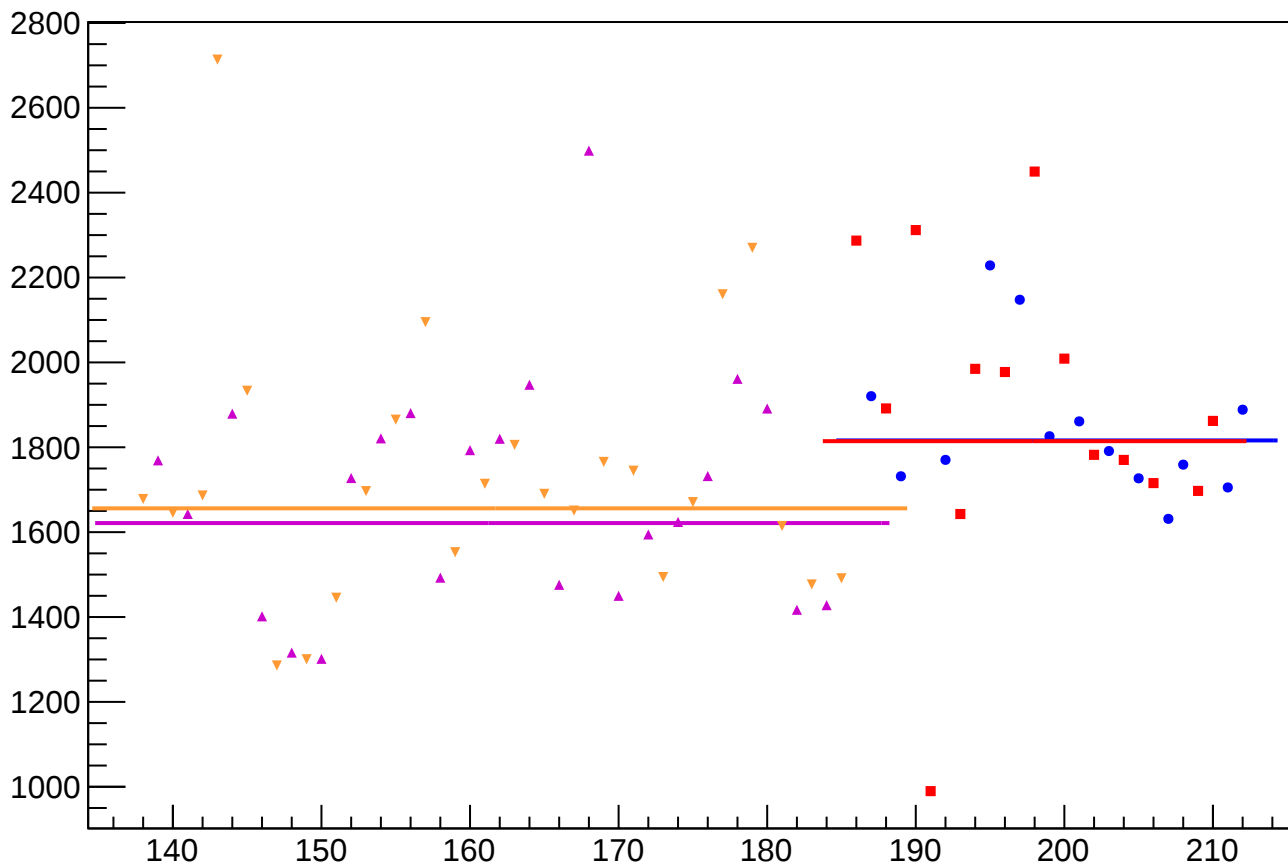
Right: 2468.731+/-425.781 χ^2/NDF : 30.1/26

In: 2041.798+/-328.969 χ^2/NDF : 32.2/35

Out: 2228.127+/-328.468 χ^2/NDF : 43.8/38

All: 2135.105+/-232.439 χ^2/NDF : 76.1/74

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1816.134+/-0.425 χ^2/NDF : 132326.9/12

Left Out: 1656.119+/-0.277 χ^2/NDF : 910573.4/24

Right Out: 1814.419+/-0.426 χ^2/NDF : 510986.7/13

Left In: 1621.417+/-0.278 χ^2/NDF : 775310.1/22

Left: 1638.826+/-0.196 χ^2/NDF : 1693706.9/47

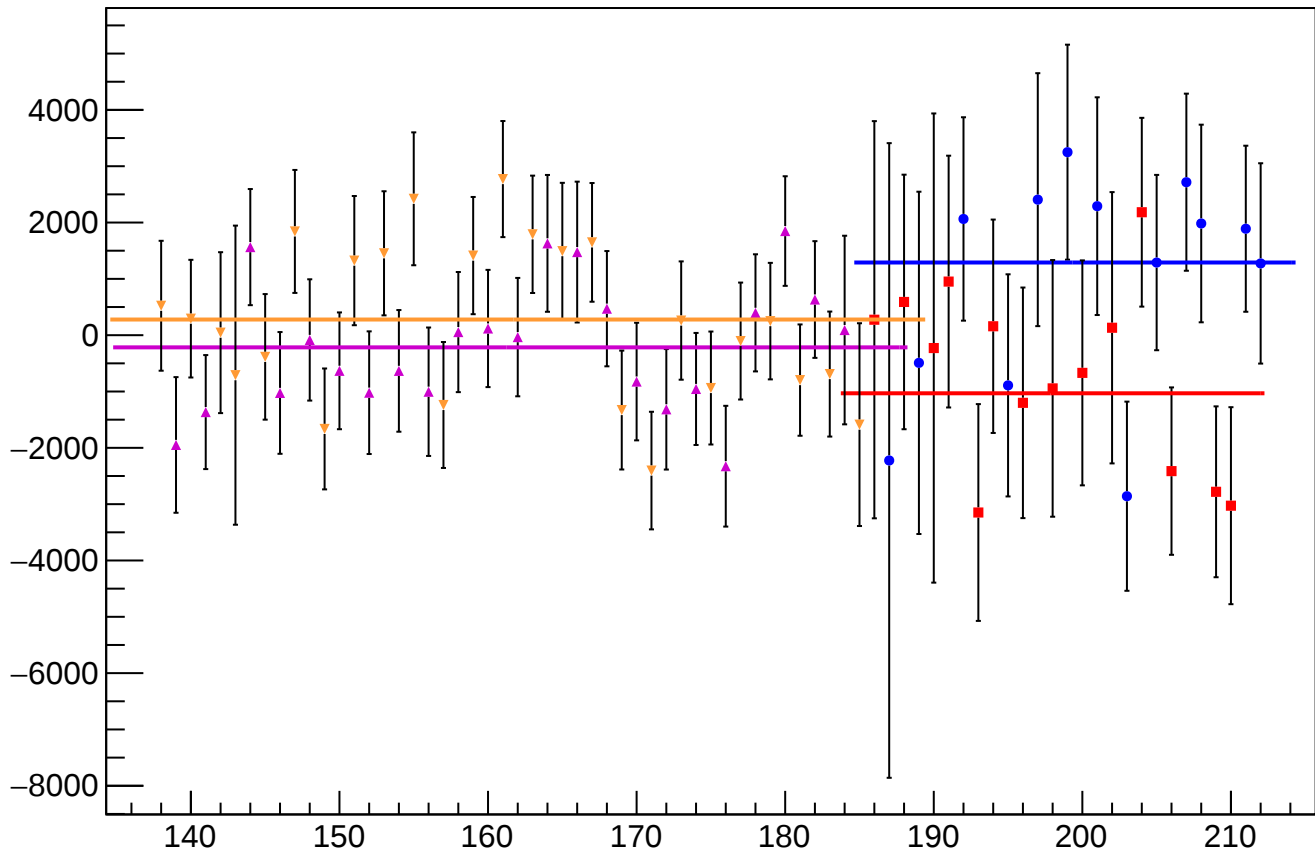
Right: 1815.279+/-0.301 χ^2/NDF : 643321.8/26

In: 1679.696+/-0.233 χ^2/NDF : 1054587.3/35

Out: 1703.093+/-0.232 χ^2/NDF : 1518498.9/38

All: 1691.413+/-0.164 χ^2/NDF : 2578152.4/74

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1290.481 $\pm$ 518.644 χ^2/NDF : 11.0/12

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

Right Out: -1031.515 $\pm$ 533.938 χ^2/NDF : 10.5/13

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

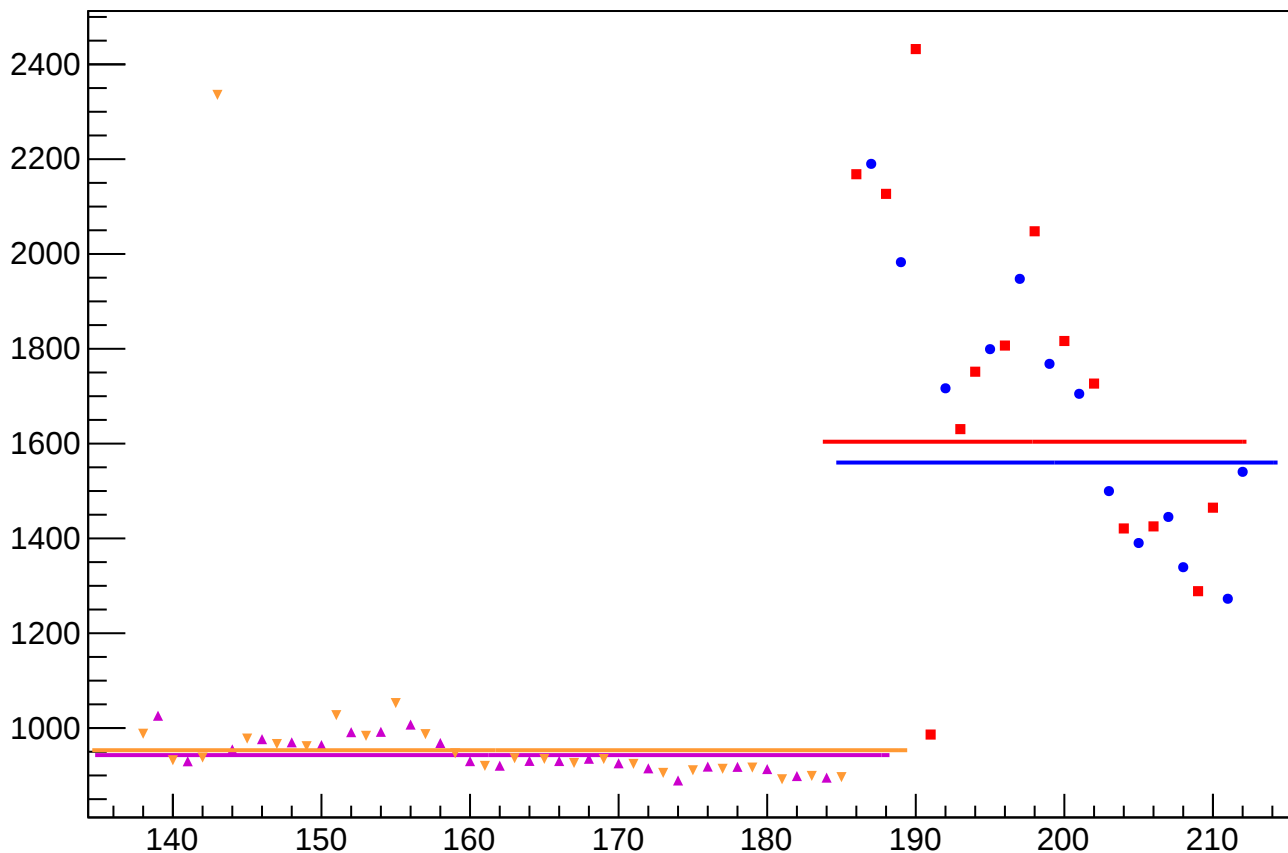
Right: 163.214 $\pm$ 372.026 χ^2/NDF : 31.2/26

In: 23.586 $\pm$ 206.876 χ^2/NDF : 42.5/35

Out: 82.718 $\pm$ 206.230 χ^2/NDF : 54.0/38

All: 53.245 $\pm$ 146.055 χ^2/NDF : 96.6/74

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1560.054+/-0.367 χ^2/NDF : 347694.8/12

Left Out: 953.221+/-0.158 χ^2/NDF : 606273.1/24

Right Out: 1603.989+/-0.378 χ^2/NDF : 677830.0/13

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

Left: 948.120+/-0.112 χ^2/NDF : 656777.0/47

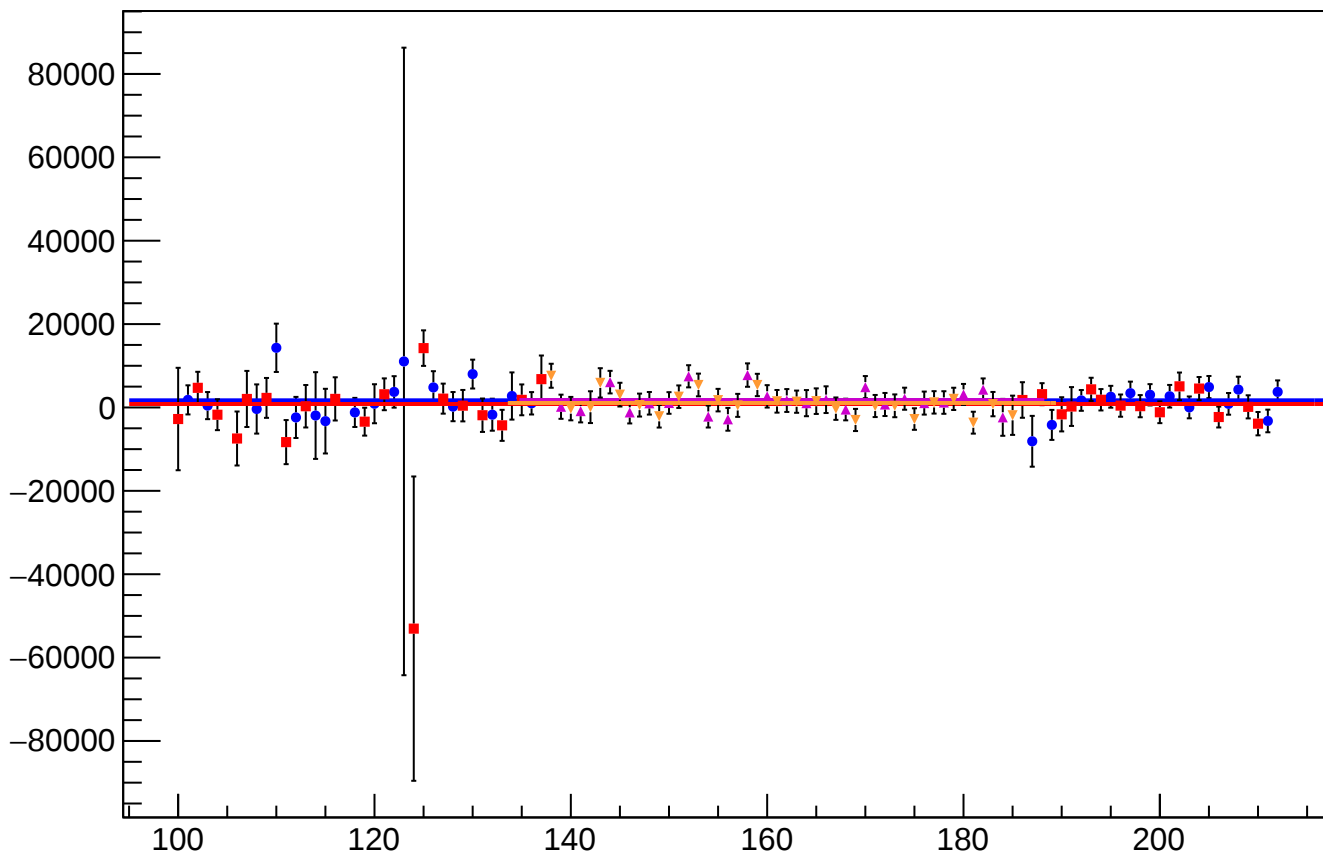
Right: 1581.383+/-0.263 χ^2/NDF : 1032492.4/26

In: 1041.114+/-0.146 χ^2/NDF : 2777226.7/35

Out: 1050.305+/-0.146 χ^2/NDF : 3811865.7/38

All: 1045.724+/-0.103 χ^2/NDF : 6591072.3/74

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1713.341+/-619.263 χ^2/NDF : 25.0/29

Left Out: 1078.054+/-564.005 χ^2/NDF : 23.6/24

Right Out: 832.087+/-619.989 χ^2/NDF : 35.6/32

Left In: 1777.100+/-575.895 χ^2/NDF : 24.1/22

Left: 1420.287+/-402.950 χ^2/NDF : 48.4/47

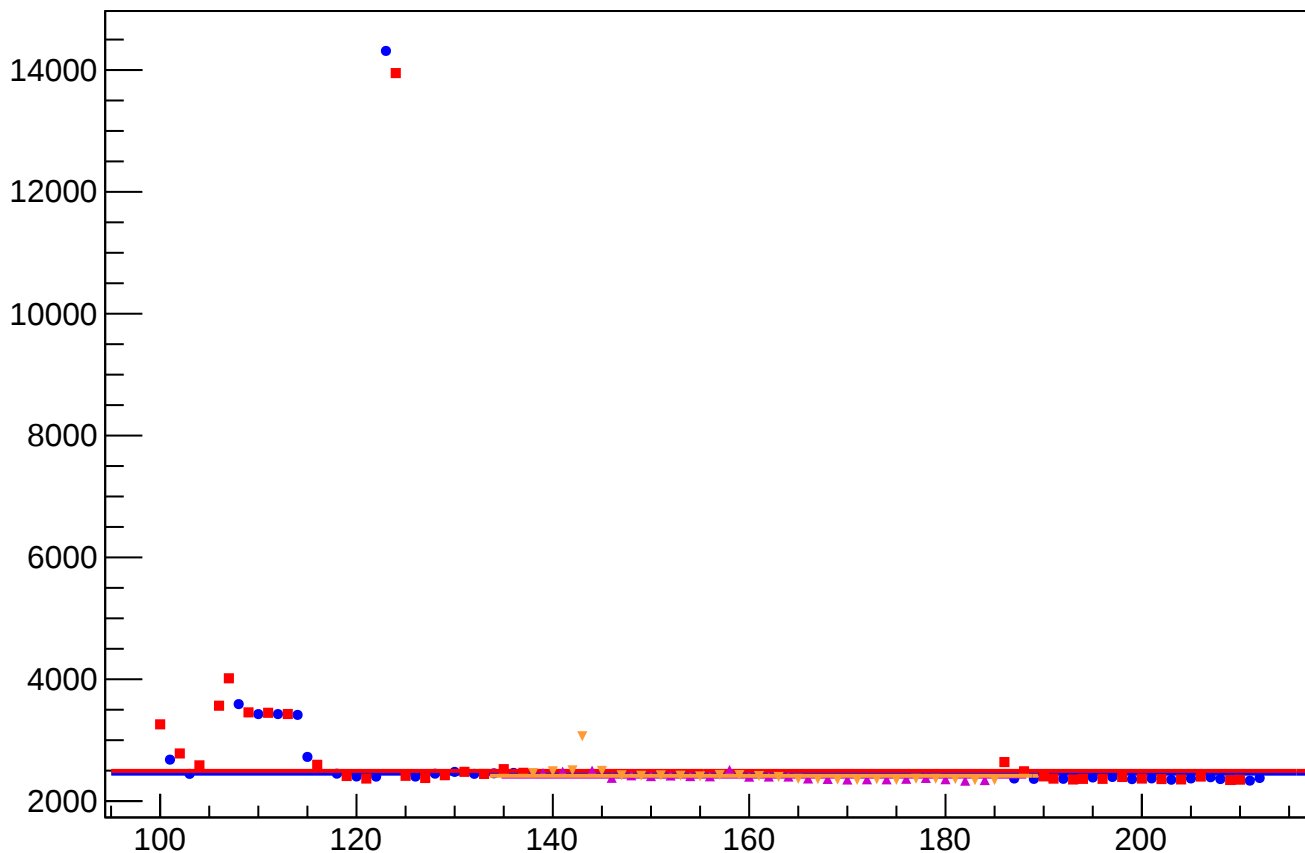
Right: 1273.230+/-438.142 χ^2/NDF : 61.6/62

In: 1747.531+/-421.718 χ^2/NDF : 49.1/52

Out: 966.675+/-417.203 χ^2/NDF : 59.3/57

All: 1352.901+/-296.591 χ^2/NDF : 110.1/110

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2450.598 $\pm$ 0.438 χ^2 /NDF: 311638.6/29

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

Right Out: 2495.963 $\pm$ 0.438 χ^2 /NDF: 644339.7/32

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

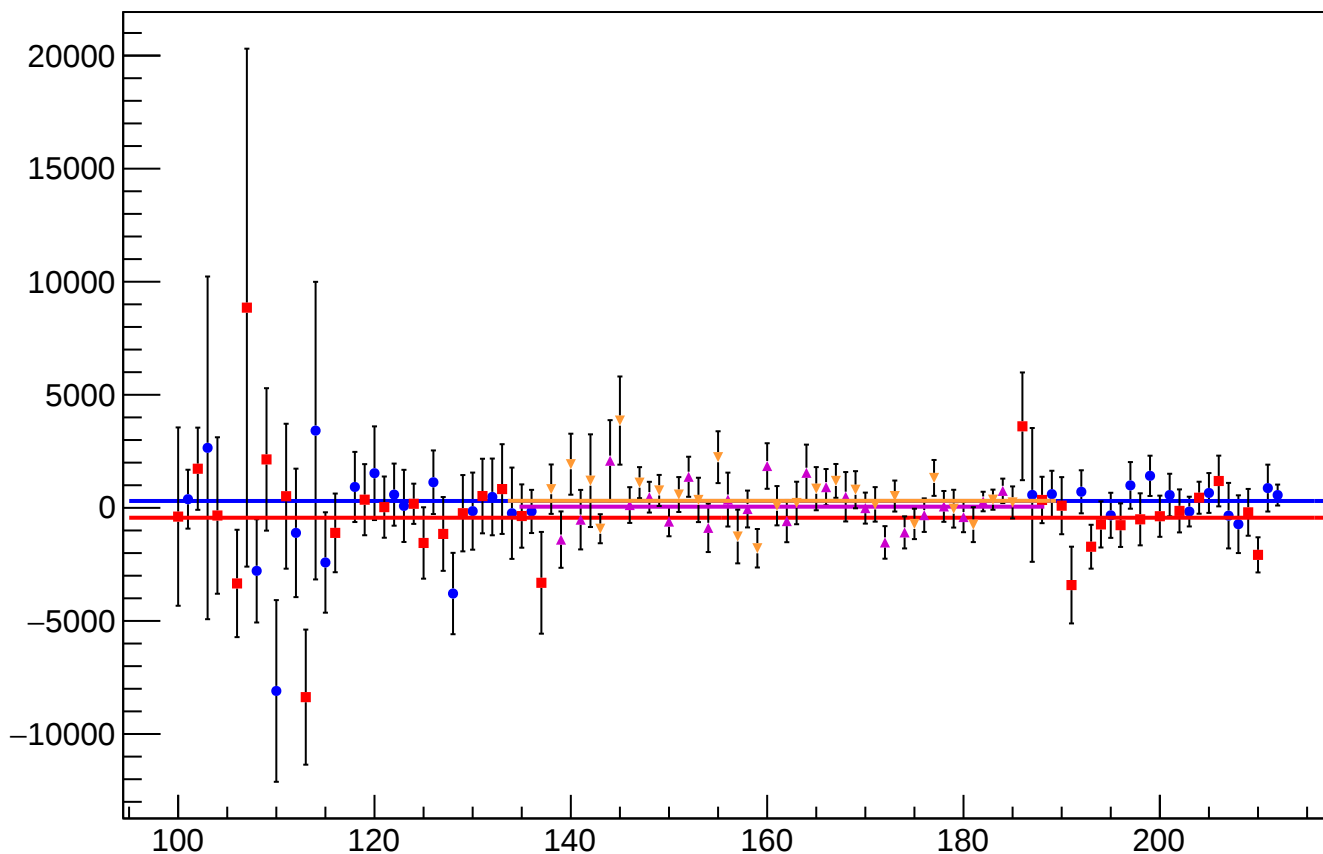
Right: 2473.254 $\pm$ 0.310 χ^2 /NDF: 961338.5/62

In: 2424.228 $\pm$ 0.298 χ^2 /NDF: 332149.5/52

Out: 2452.220 $\pm$ 0.295 χ^2 /NDF: 745171.0/57

All: 2438.374 $\pm$ 0.210 χ^2 /NDF: 1081773.6/111

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 304.638+/-211.230 χ^2/NDF : 19.7/29

Left Out: 310.873+/-160.650 χ^2/NDF : 29.7/24

Right Out: -436.492+/-225.864 χ^2/NDF : 32.4/32

Left In: 51.454+/-161.744 χ^2/NDF : 23.8/22

Left: 182.044+/-113.982 χ^2/NDF : 54.9/47

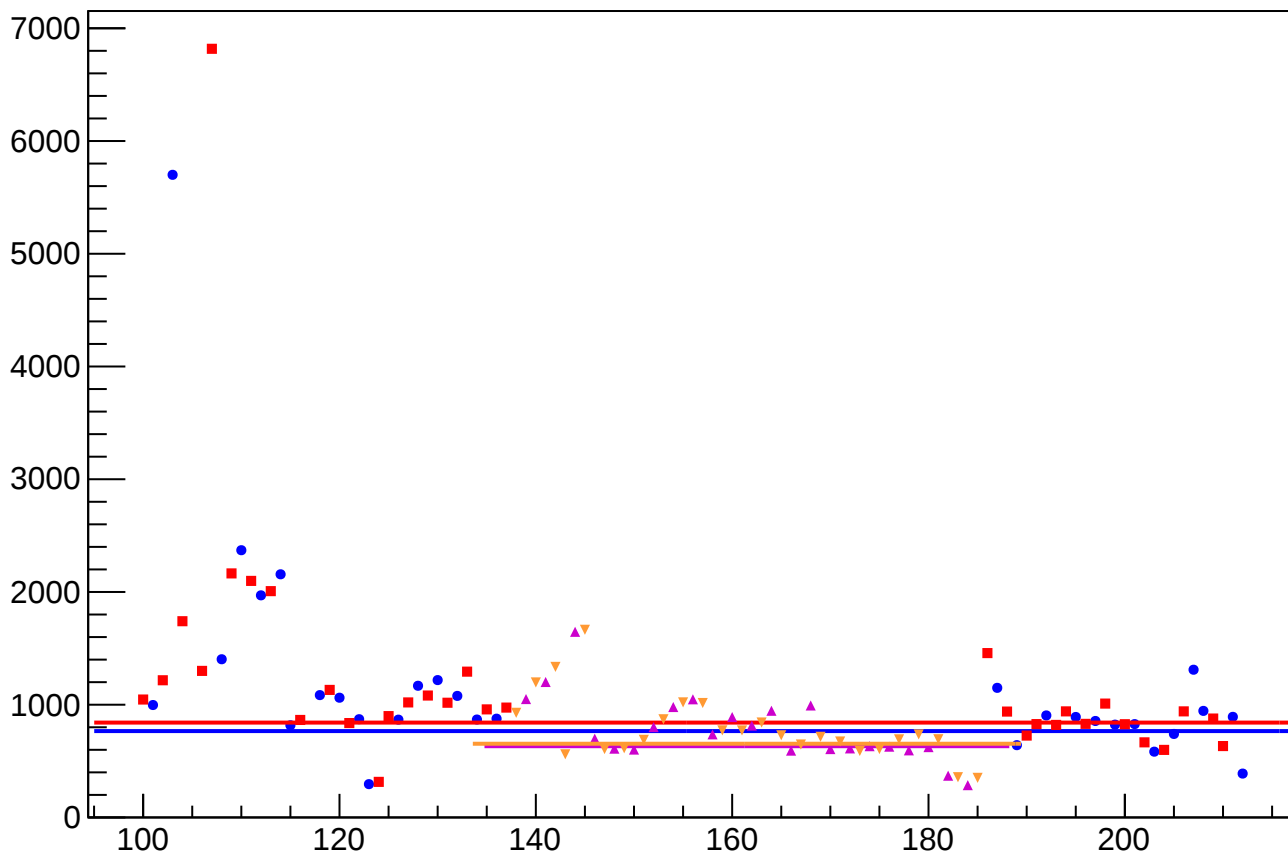
Right: -41.142+/-154.276 χ^2/NDF : 57.9/62

In: 145.035+/-128.420 χ^2/NDF : 44.4/52

Out: 59.798+/-130.913 χ^2/NDF : 69.5/57

All: 103.236+/-91.675 χ^2/NDF : 114.1/110

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 766.128+/-0.149 χ^2/NDF : 4498750.4/29

Left Out: 653.803+/-0.114 χ^2/NDF : 3254694.4/24

Right Out: 841.471+/-0.160 χ^2/NDF : 3489125.9/32

Left In: 632.053+/-0.114 χ^2/NDF : 3942853.4/22

Left: 643.002+/-0.081 χ^2/NDF : 7215752.9/47

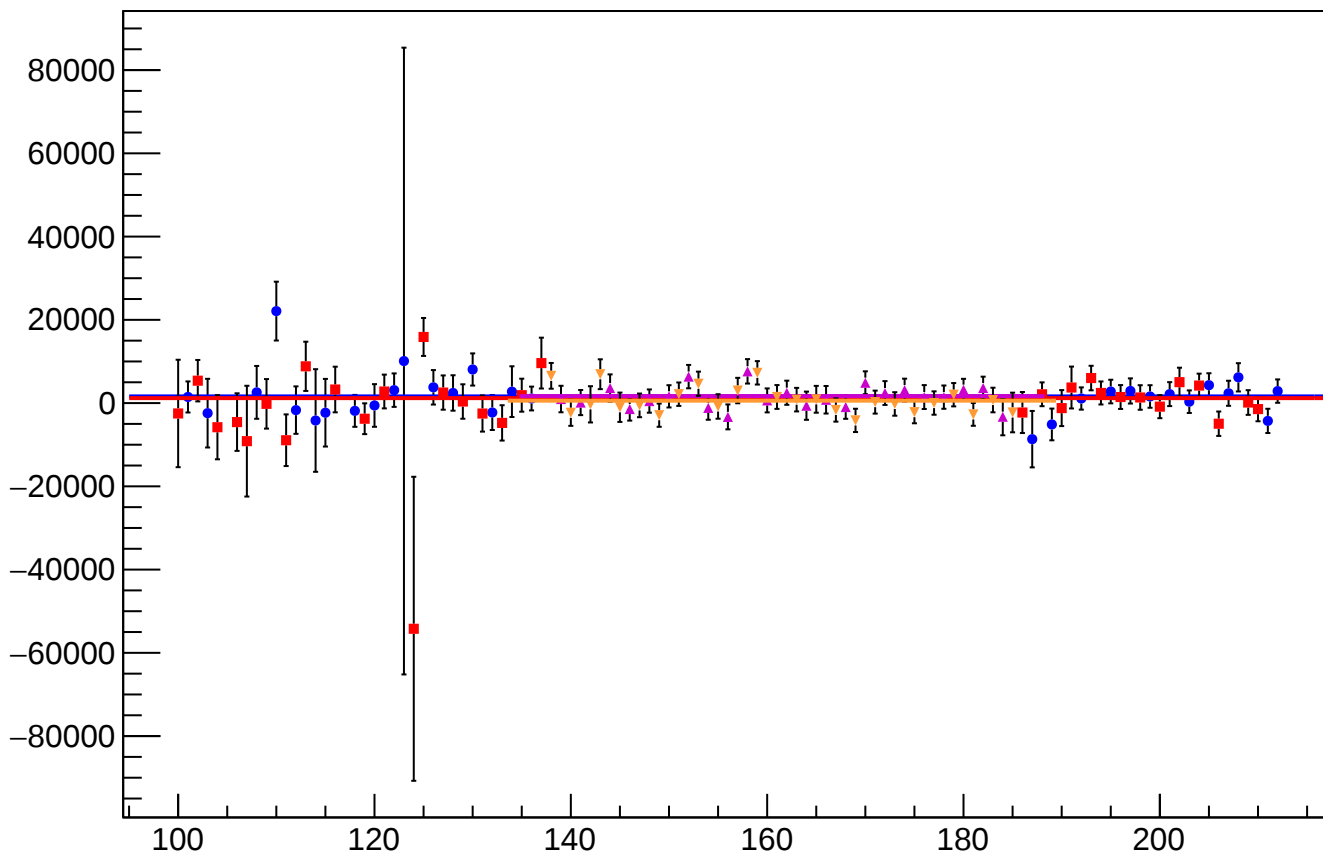
Right: 801.280+/-0.109 χ^2/NDF : 8106591.9/62

In: 681.609+/-0.091 χ^2/NDF : 8949553.5/52

Out: 716.849+/-0.093 χ^2/NDF : 7660715.5/57

All: 698.890+/-0.065 χ^2/NDF : 16684123.7/11

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1603.742 $\pm$ 680.361 χ^2 /NDF: 27.8/29

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

Right Out: 1191.740 $\pm$ 685.758 χ^2 /NDF: 39.1/32

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

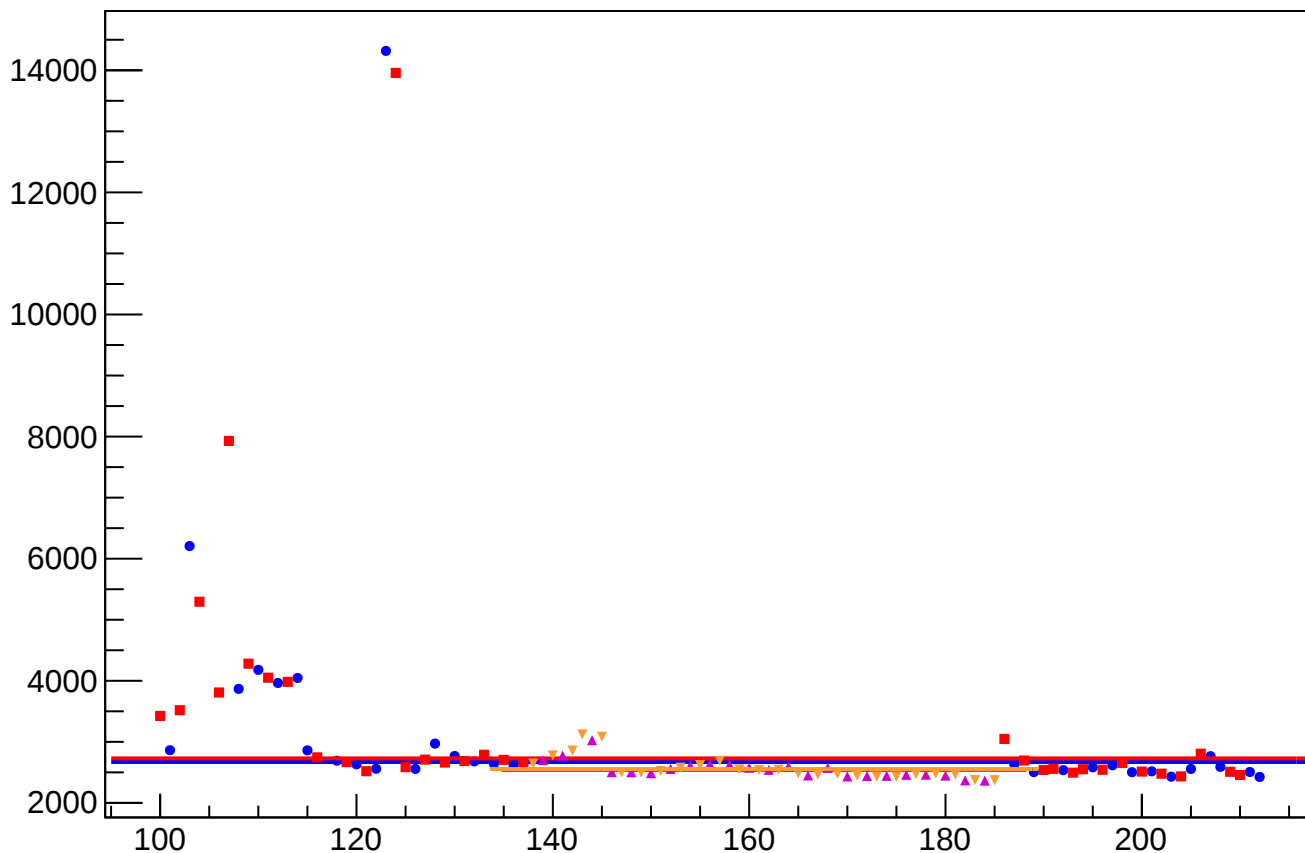
Right: 1399.369 $\pm$ 482.984 χ^2 /NDF: 67.0/62

In: 1645.773 $\pm$ 454.226 χ^2 /NDF: 45.9/52

Out: 844.331 $\pm$ 450.350 χ^2 /NDF: 64.9/57

All: 1241.618 $\pm$ 319.807 χ^2 /NDF: 112.4/110

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2670.443+/-0.481 χ^2/NDF : 795736.7/29

Left Out: 2555.279+/-0.422 χ^2/NDF : 154743.6/24

Right Out: 2729.007+/-0.485 χ^2/NDF : 1265865.3/32

Left In: 2540.988+/-0.431 χ^2/NDF : 94756.7/22

Left: 2548.287+/-0.302 χ^2/NDF : 250060.8/47

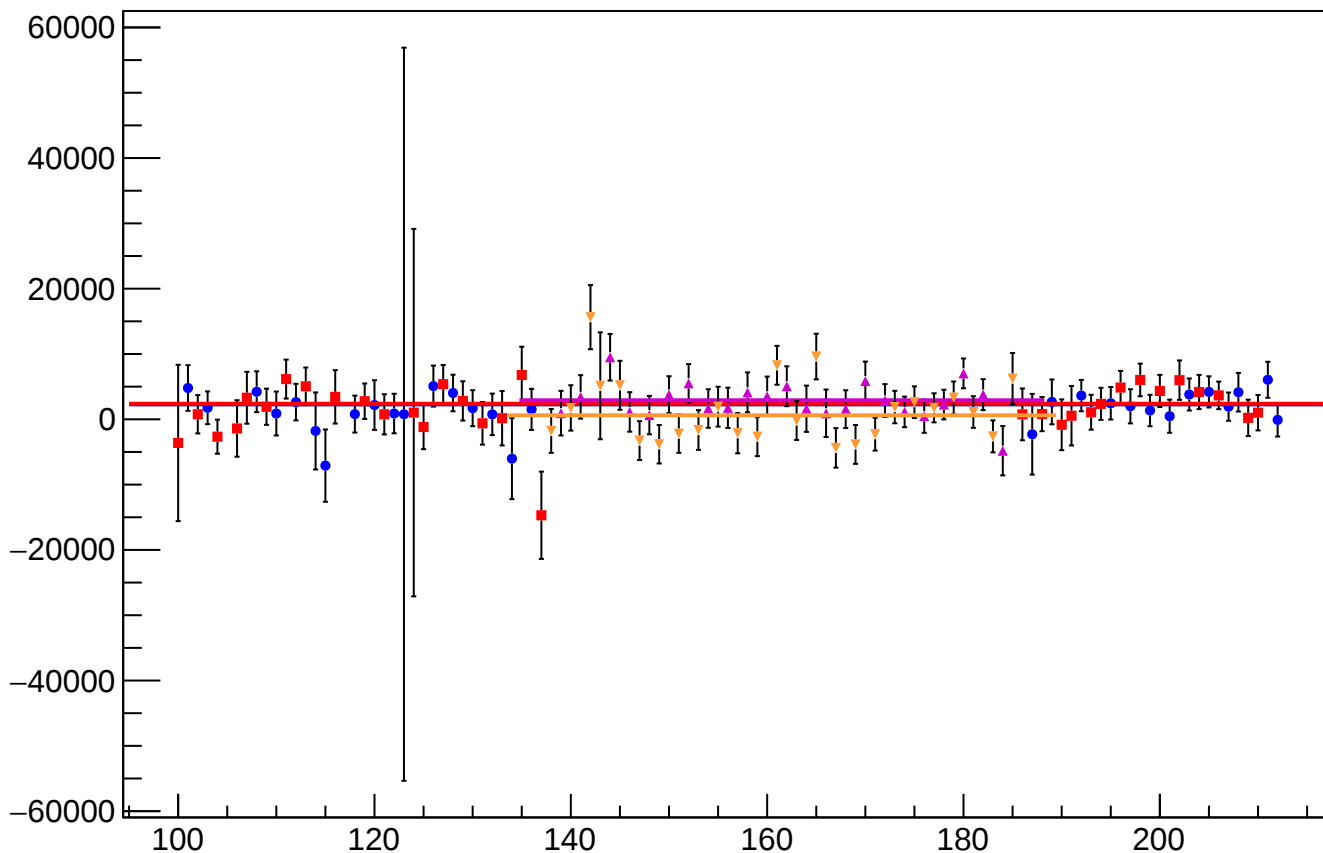
Right: 2699.494+/-0.342 χ^2/NDF : 2068952.8/62

In: 2598.689+/-0.321 χ^2/NDF : 930628.0/52

Out: 2630.204+/-0.318 χ^2/NDF : 1493609.5/57

All: 2614.582+/-0.226 χ^2/NDF : 2429092.7/111

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2285.405 $\pm$ 543.374 χ^2 /NDF: 14.0/29

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

Right Out: 2380.602 $\pm$ 538.594 χ^2 /NDF: 27.3/32

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

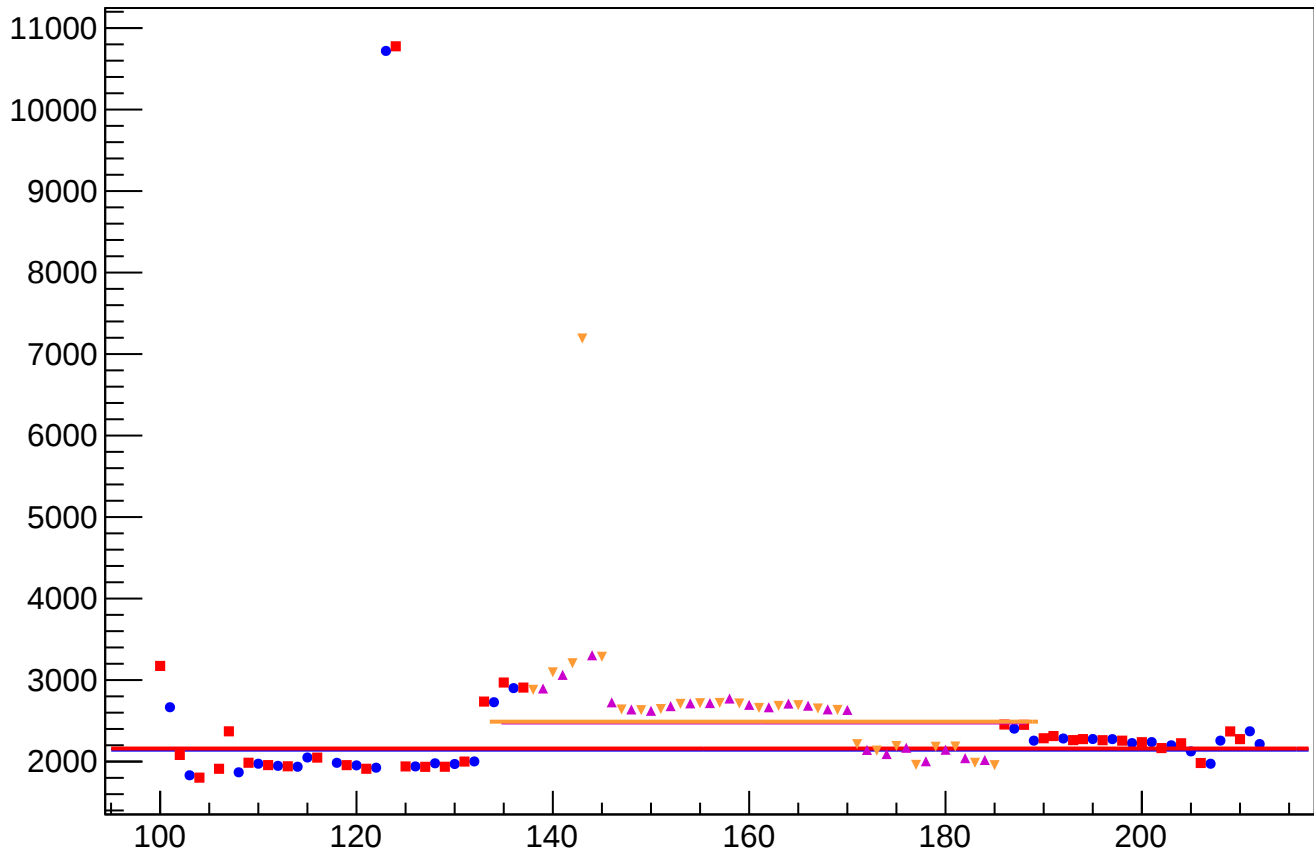
Right: 2333.424 $\pm$ 382.522 χ^2 /NDF: 41.3/62

In: 2566.611 $\pm$ 402.660 χ^2 /NDF: 32.0/52

Out: 1579.695 $\pm$ 398.129 χ^2 /NDF: 77.3/57

All: 2067.570 $\pm$ 283.108 χ^2 /NDF: 112.4/110

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2146.208 $\pm$ 0.384 χ^2 /NDF: 398547.9/29

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

Right Out: 2159.929 $\pm$ 0.381 χ^2 /NDF: 563124.9/32

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

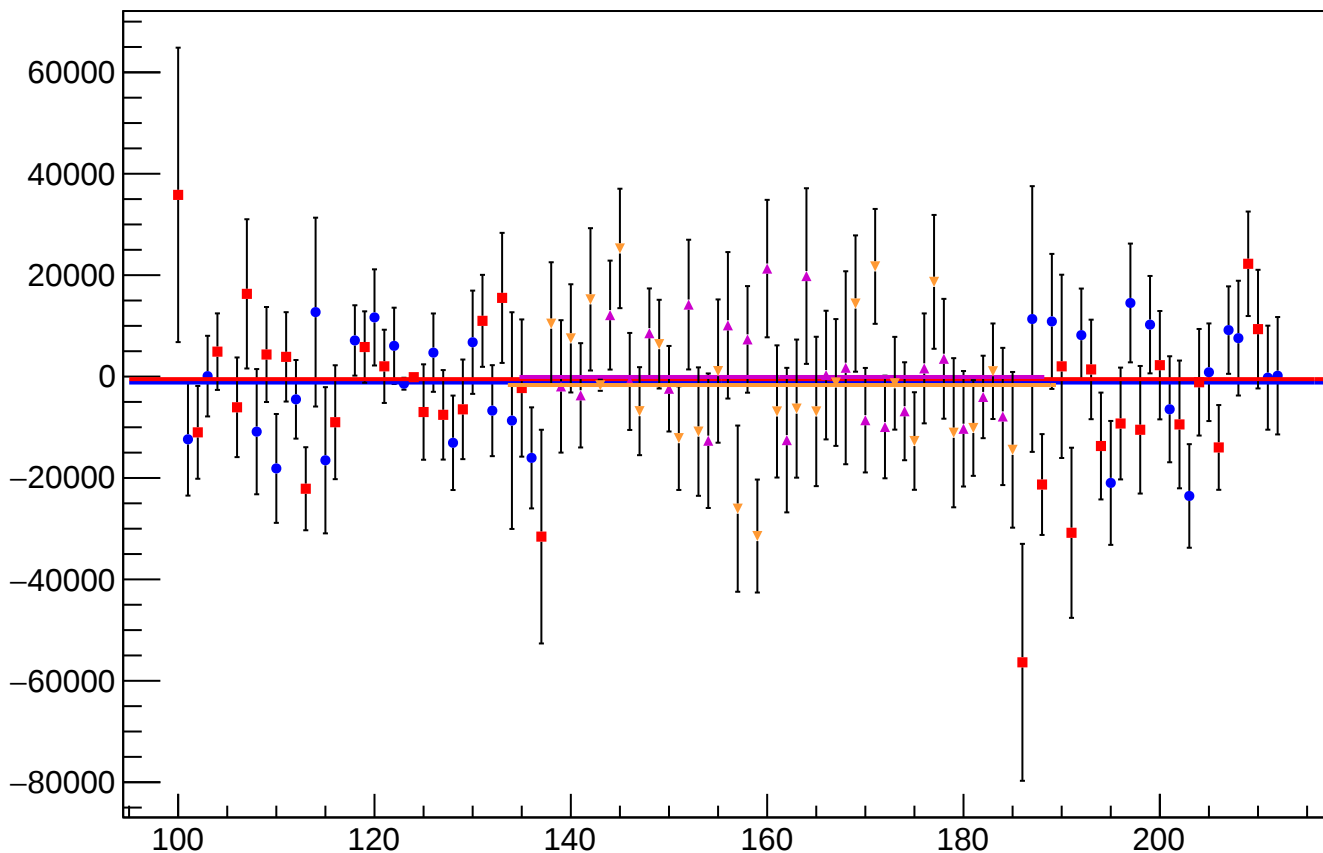
Right: 2153.129 $\pm$ 0.270 χ^2 /NDF: 962316.0/62

In: 2296.409 $\pm$ 0.285 χ^2 /NDF:1405895.4/52

Out: 2309.450 $\pm$ 0.282 χ^2 /NDF:2267160.9/57

All: 2303.004 $\pm$ 0.200 χ^2 /NDF: 3674117.1/11

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1178.842 ± 994.762 χ^2/NDF : 30.9/29

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

Right Out: -505.518 ± 677.919 χ^2/NDF : 46.1/32

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

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

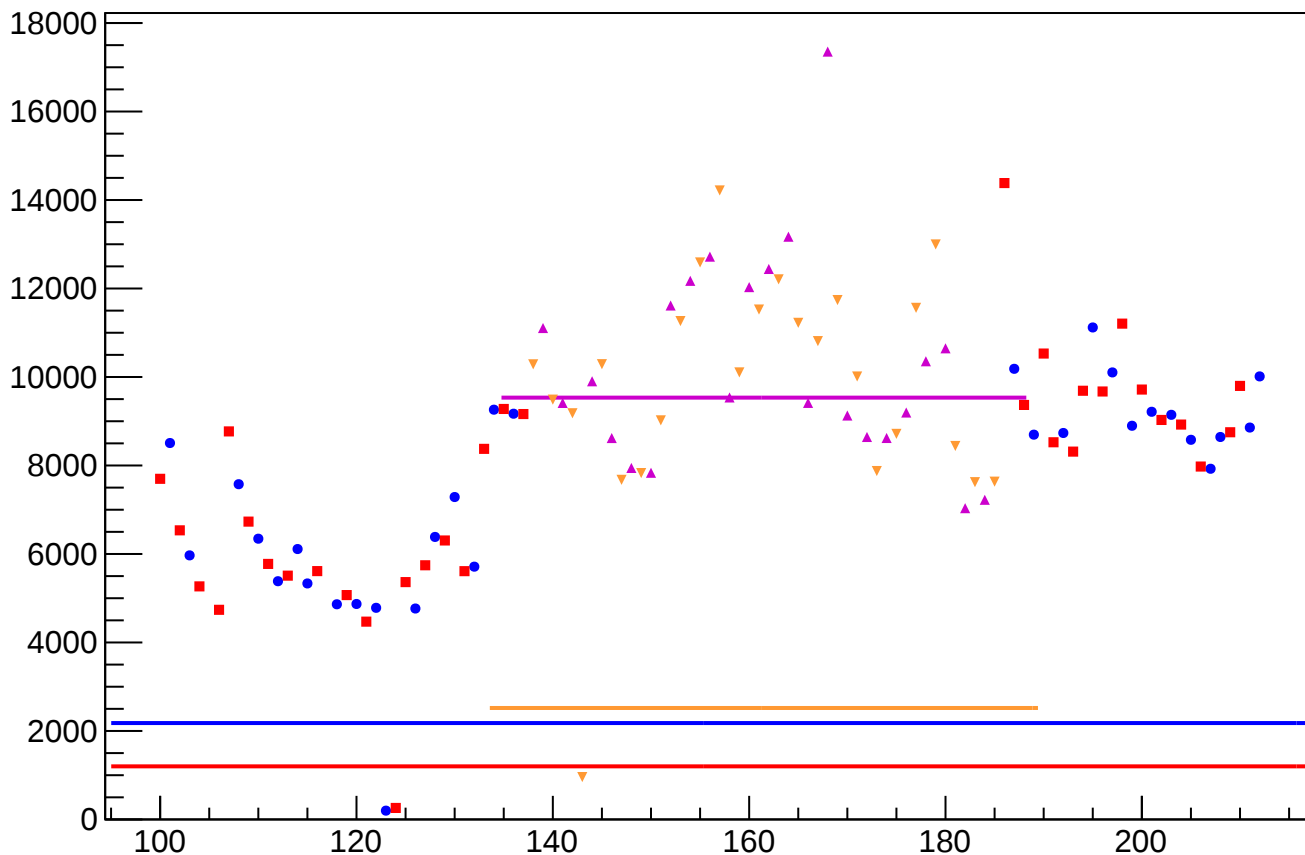
Right: -719.056 ± 560.201 χ^2/NDF : 77.3/62

In: -1009.661 ± 914.964 χ^2/NDF : 44.9/52

Out: -874.228 ± 559.897 χ^2/NDF : 79.4/57

All: -911.126 ± 477.575 χ^2/NDF : 124.3/110

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2178.743+/-0.703

χ^2/NDF : 22011049.1/29

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

Right: 1510.501+/-0.396 χ^2/NDF : 49758008.3/62

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

In: 3311.398+/-0.647 χ^2/NDF : 40164552.2/52

Right Out: 1200.152+/-0.479

χ^2/NDF : 26425278.1/32

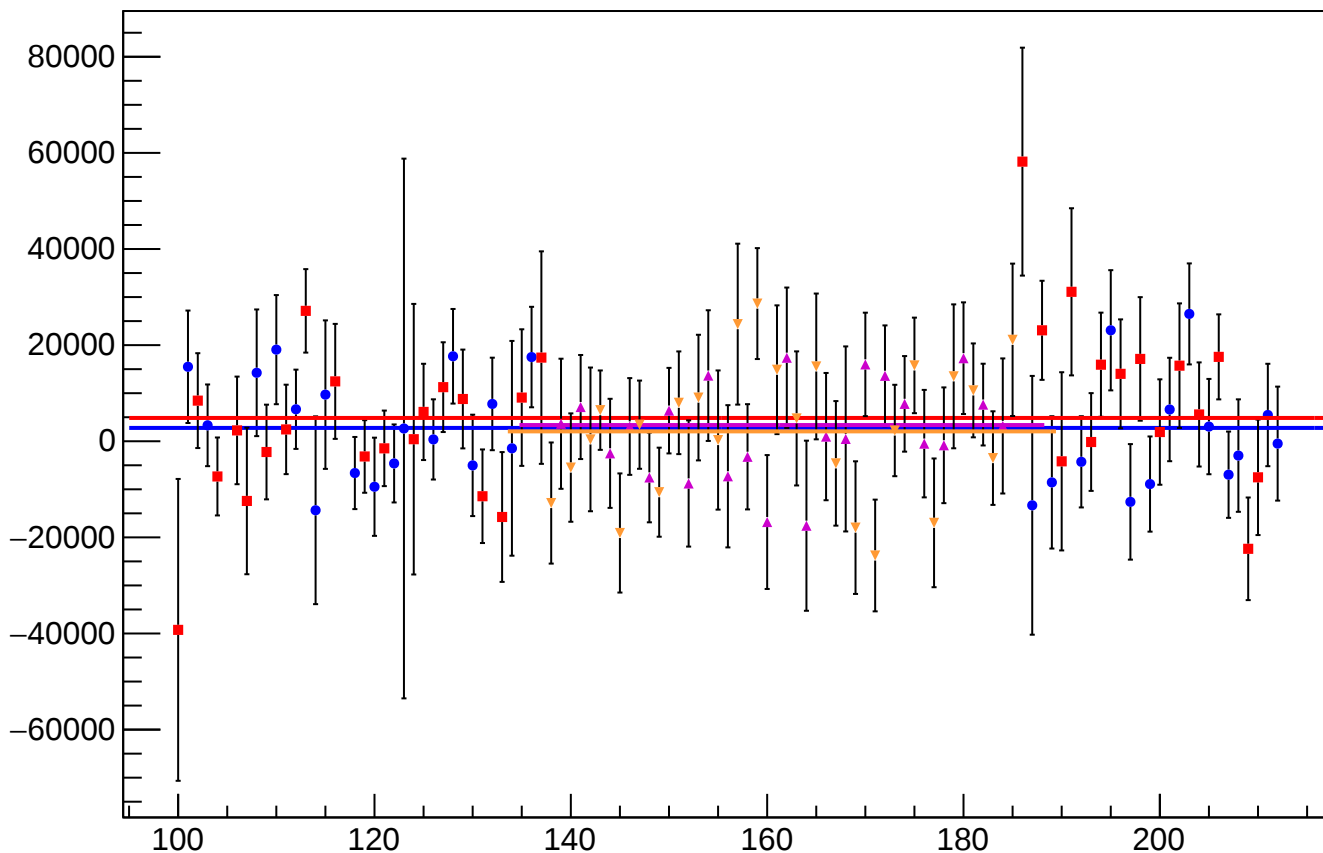
Out: 1619.503+/-0.396 χ^2/NDF : 52474888.8/57

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 2080.448+/-0.338 χ^2/NDF : 97614932.2/100

asym_atl2_mean vs Slug, Sign Corrected



Right In: 2774.403+/-1963.485 χ^2/NDF : 28.3/29

Left Out: 2055.950+/-2333.494 χ^2/NDF : 30.7/24

Right Out: 4849.943+/-1922.781 χ^2/NDF : 45.2/32

Left In: 3371.931+/-2423.242 χ^2/NDF : 13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47

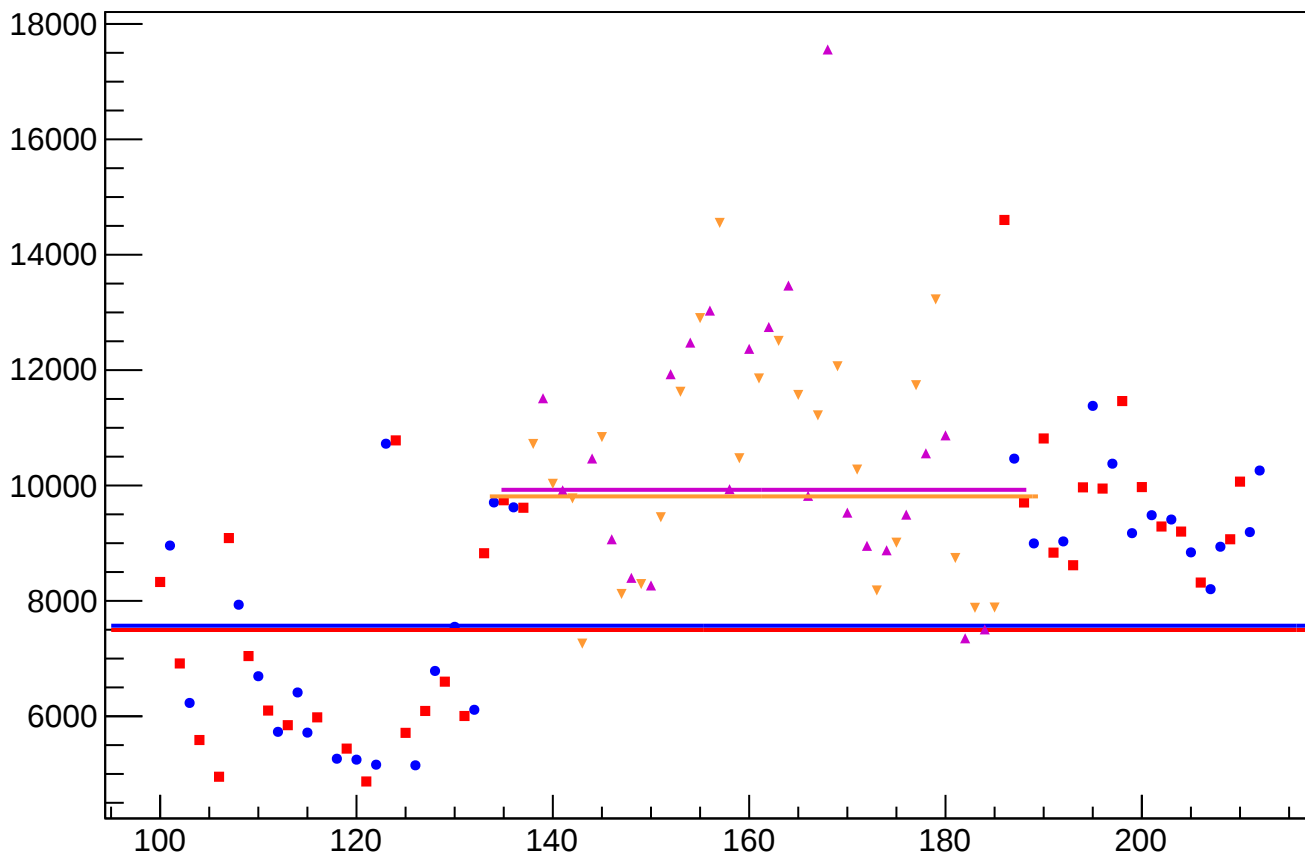
Right: 3833.909+/-1373.776 χ^2/NDF : 74.1/62

In: 3011.223+/-1525.550 χ^2/NDF : 41.4/52

Out: 3720.068+/-1483.916 χ^2/NDF : 76.8/57

All: 3375.450+/-1063.701 χ^2/NDF : 118.3/110

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7569.582 $\pm$ 1.388 χ^2 /NDF: 1806726.0/29

Left Out: 9811.053 $\pm$ 1.650 χ^2 /NDF: 1213831.0/24

Right Out: 7495.387 $\pm$ 1.360 χ^2 /NDF: 2157408.1/32

Left In: 9925.337 $\pm$ 1.713 χ^2 /NDF: 1211554.7/22

Left: 9866.039 $\pm$ 1.189 χ^2 /NDF: 2427693.8/47

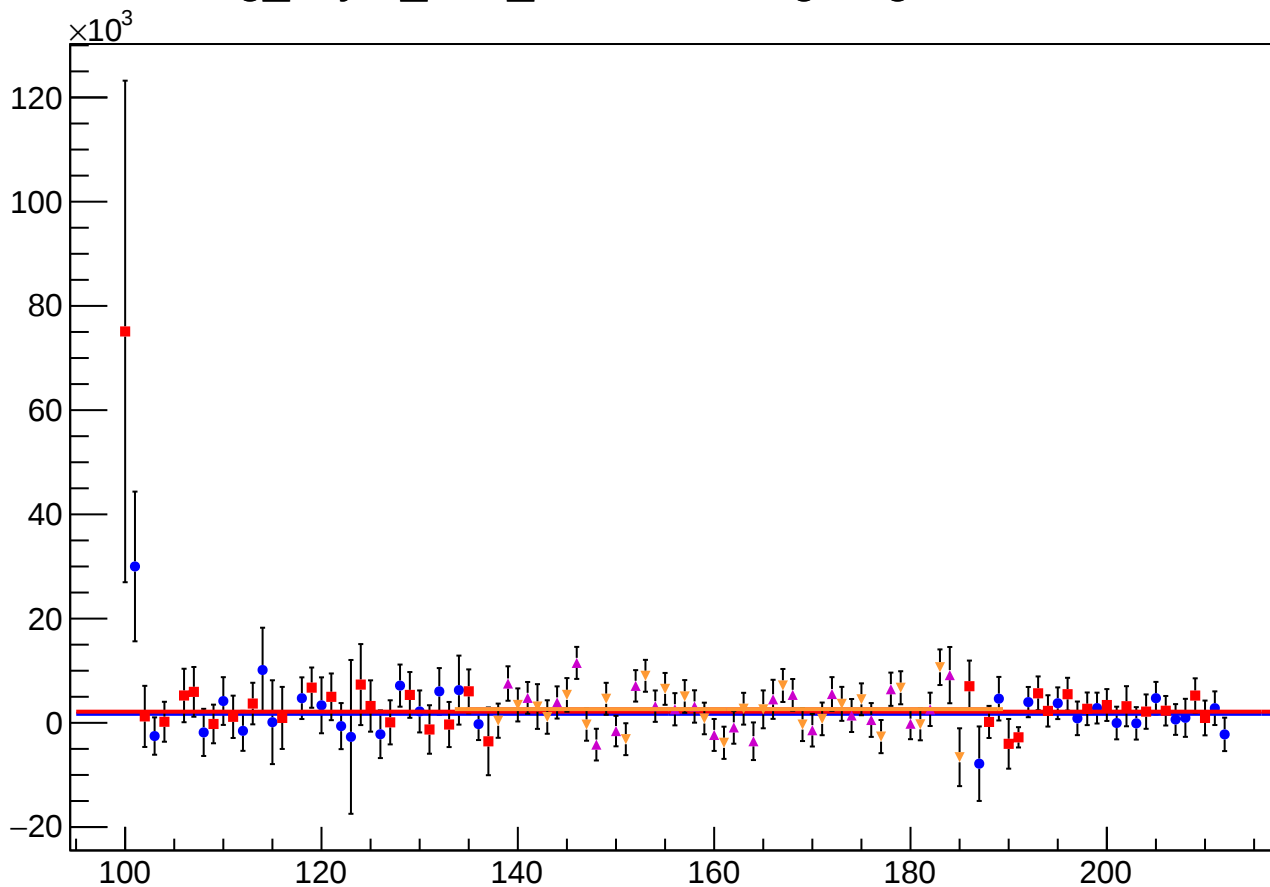
Right: 7531.706 $\pm$ 0.971 χ^2 /NDF: 3965592.0/62

In: 8503.212 $\pm$ 1.079 χ^2 /NDF: 4159329.5/52

Out: 8431.765 $\pm$ 1.049 χ^2 /NDF: 4544372.5/57

All: 8466.500 $\pm$ 0.752 χ^2 /NDF: 8705956.2/111

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1728.534+/-709.617 χ^2/NDF : 20.4/29

Left Out: 2635.833+/-646.121 χ^2/NDF : 35.1/24

Right Out: 2141.226+/-659.119 χ^2/NDF : 22.9/32

Left In: 2638.607+/-664.569 χ^2/NDF : 35.2/22

Left: 2637.181+/-463.261 χ^2/NDF : 70.3/47

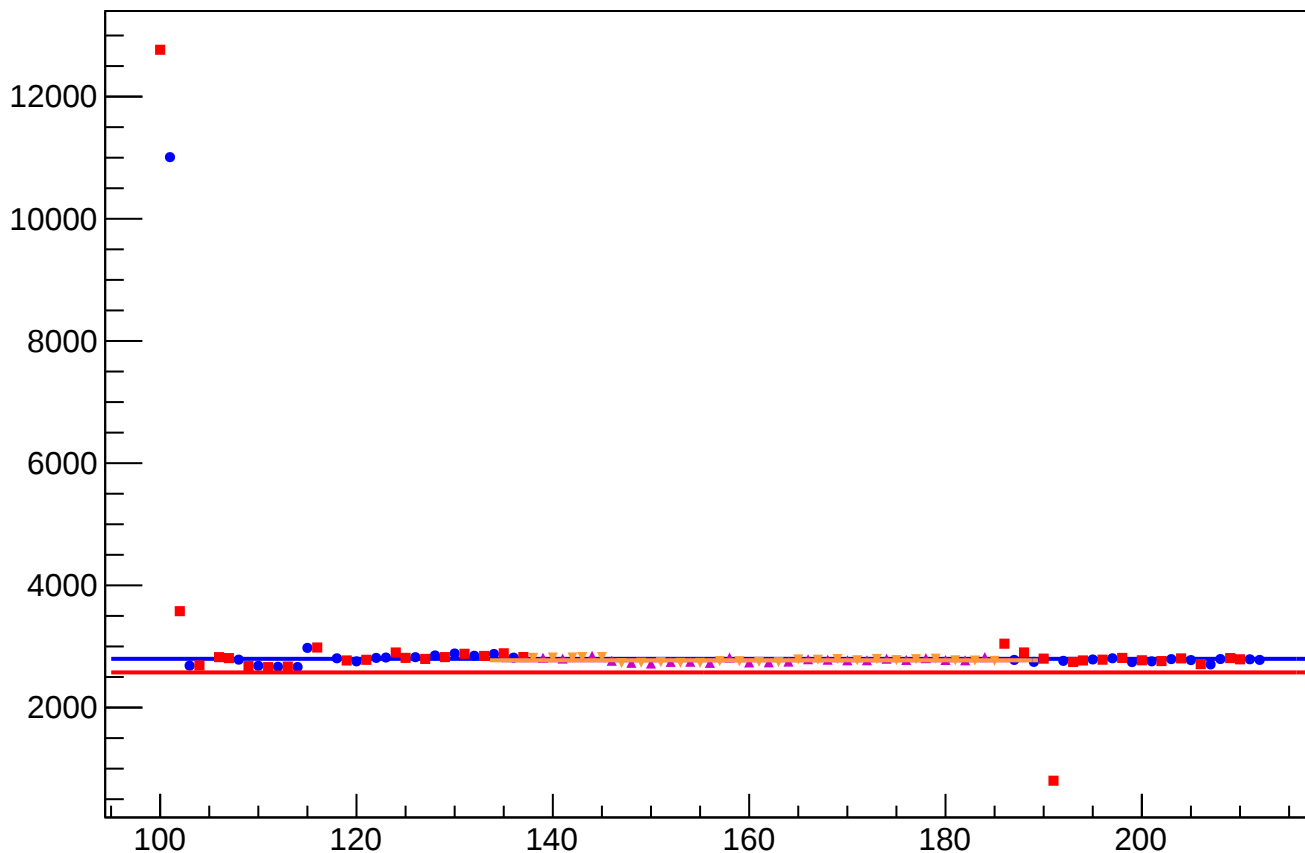
Right: 1950.085+/-482.934 χ^2/NDF : 43.4/62

In: 2213.372+/-485.065 χ^2/NDF : 56.5/52

Out: 2393.454+/-461.403 χ^2/NDF : 58.2/57

All: 2307.912+/-334.314 χ^2/NDF : 114.8/110

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2797.450+/-0.502 χ^2/NDF : 666686.4/29

Left Out: 2773.713+/-0.457 χ^2/NDF : 4616.5/24

Right Out: 2575.102+/-0.466 χ^2/NDF : 2013883.2/32

Left In: 2774.036+/-0.470 χ^2/NDF : 4985.3/22

Left: 2773.870+/-0.328 χ^2/NDF : 9602.0/47

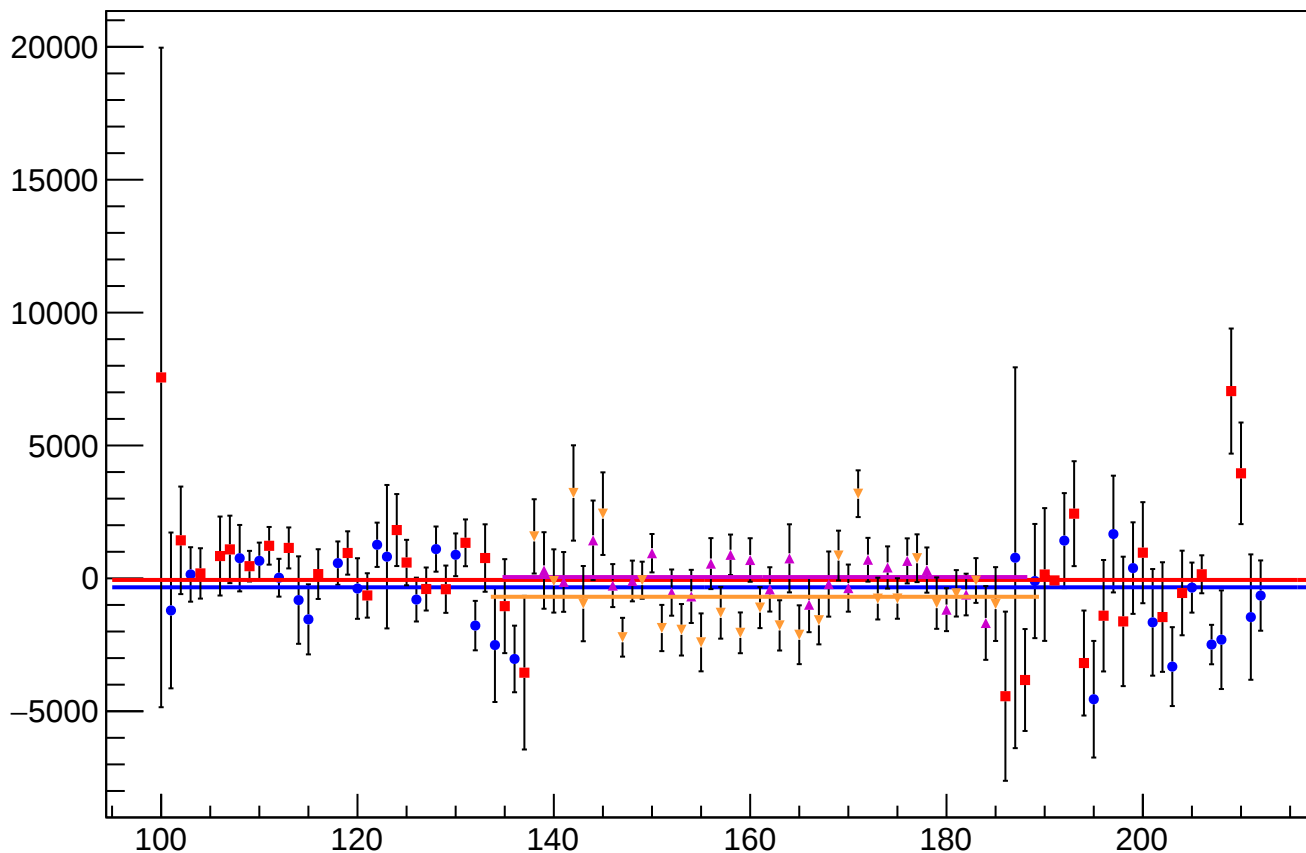
Right: 2678.084+/-0.341 χ^2/NDF : 2785983.5/62

In: 2784.976+/-0.343 χ^2/NDF : 672831.8/52

Out: 2676.385+/-0.326 χ^2/NDF : 2111106.8/57

All: 2727.968+/-0.236 χ^2/NDF : 2836560.3/11

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -336.072 ± 208.512 $\chi^2/\text{NDF}: 43.0/29$

Left Out: -692.808 ± 187.297 $\chi^2/\text{NDF}: 56.0/24$

Right Out: -59.221 ± 37.811 $\chi^2/\text{NDF}: 43.7/32$

Left In: 49.244 ± 189.190 $\chi^2/\text{NDF}: 13.6/22$

Left: -325.512 ± 133.103 $\chi^2/\text{NDF}: 77.4/47$

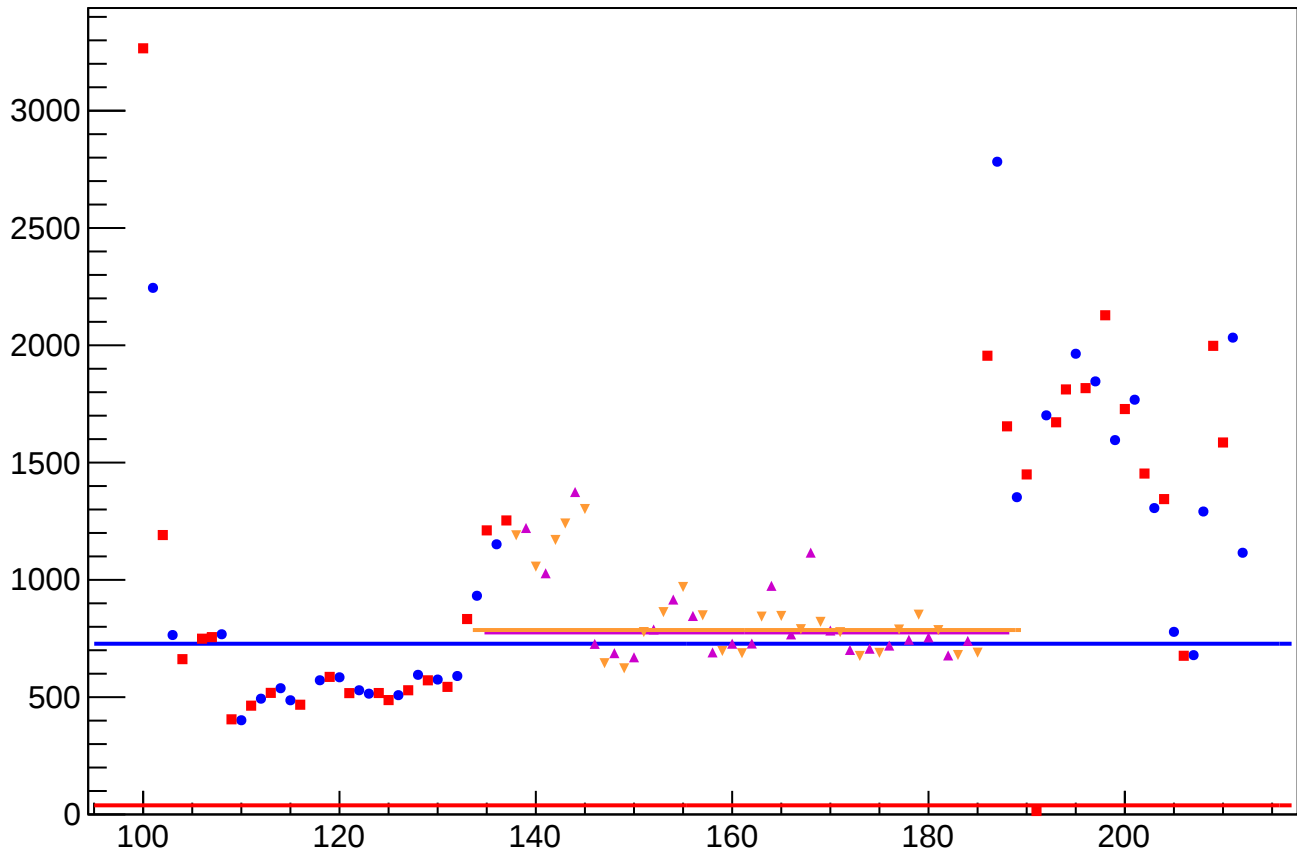
Right: -68.035 ± 37.204 $\chi^2/\text{NDF}: 88.4/62$

In: -124.738 ± 140.112 $\chi^2/\text{NDF}: 58.5/52$

Out: -84.031 ± 37.063 $\chi^2/\text{NDF}: 110.7/57$

All: -86.693 ± 35.830 $\chi^2/\text{NDF}: 169.3/110$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 727.758+/-0.147 χ^2/NDF : 6497670.2/29

Left Out: 786.173+/-0.132 χ^2/NDF :1249536.1/24

Right Out: 38.846+/-0.027 χ^2/NDF : 29569068.0/32

Left In: 775.930+/-0.134 χ^2/NDF :1056766.5/22

Left: 781.103+/-0.094 χ^2/NDF : 2309263.4/47

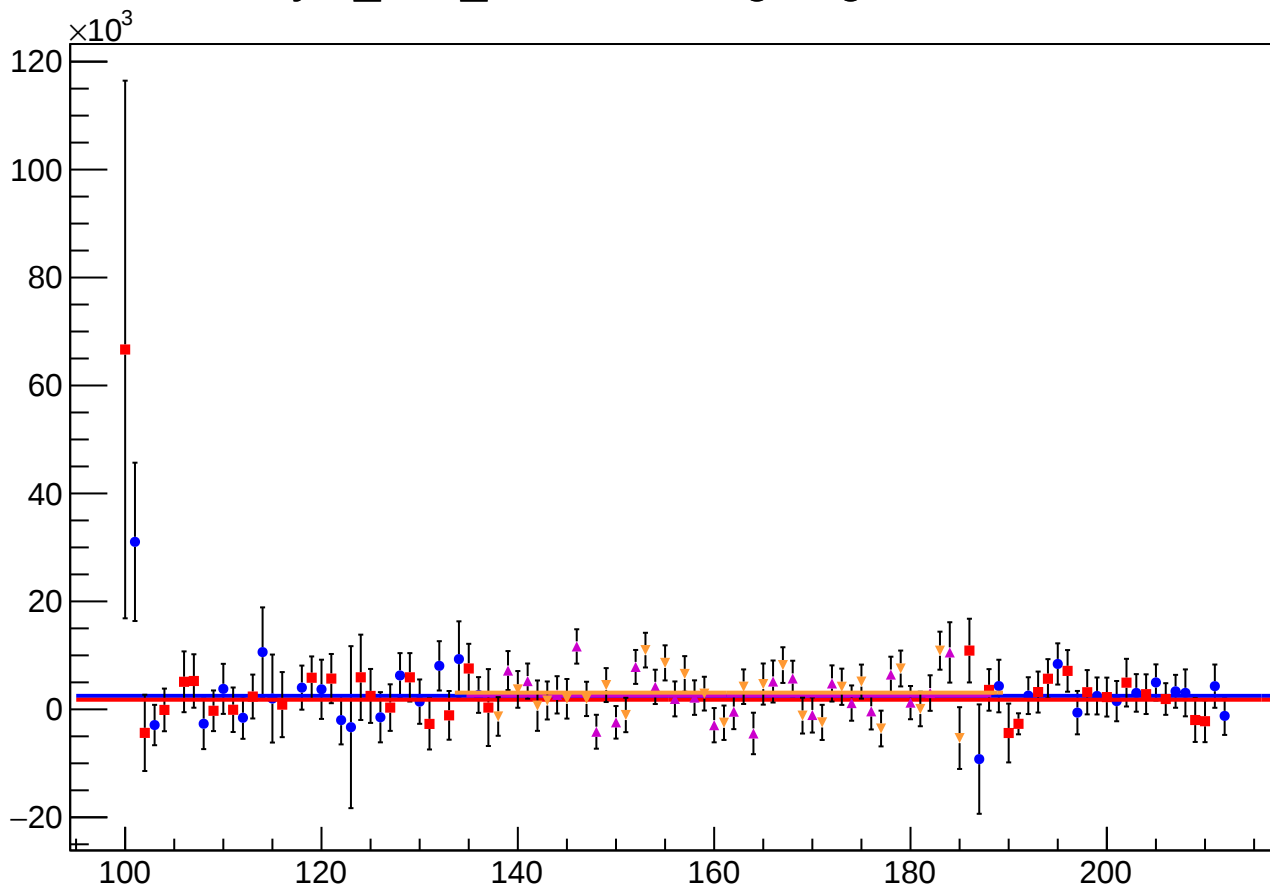
Right: 60.778+/-0.026 χ^2/NDF : 57203923.1/62

In: 754.179+/-0.099 χ^2/NDF :7612984.6/52

Out: 68.109+/-0.026 χ^2/NDF :61412957.9/57

All: 112.976+/-0.025 χ^2/NDF : 113843336.4/1

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2499.990+/-782.169 χ^2/NDF : 21.1/29

Left Out: 3094.826+/-678.510 χ^2/NDF : 38.7/24

Right Out: 1782.434+/-722.118 χ^2/NDF : 25.1/32

Left In: 2573.184+/-695.795 χ^2/NDF : 35.7/22

Left: 2840.565+/-485.775 χ^2/NDF : 74.6/47

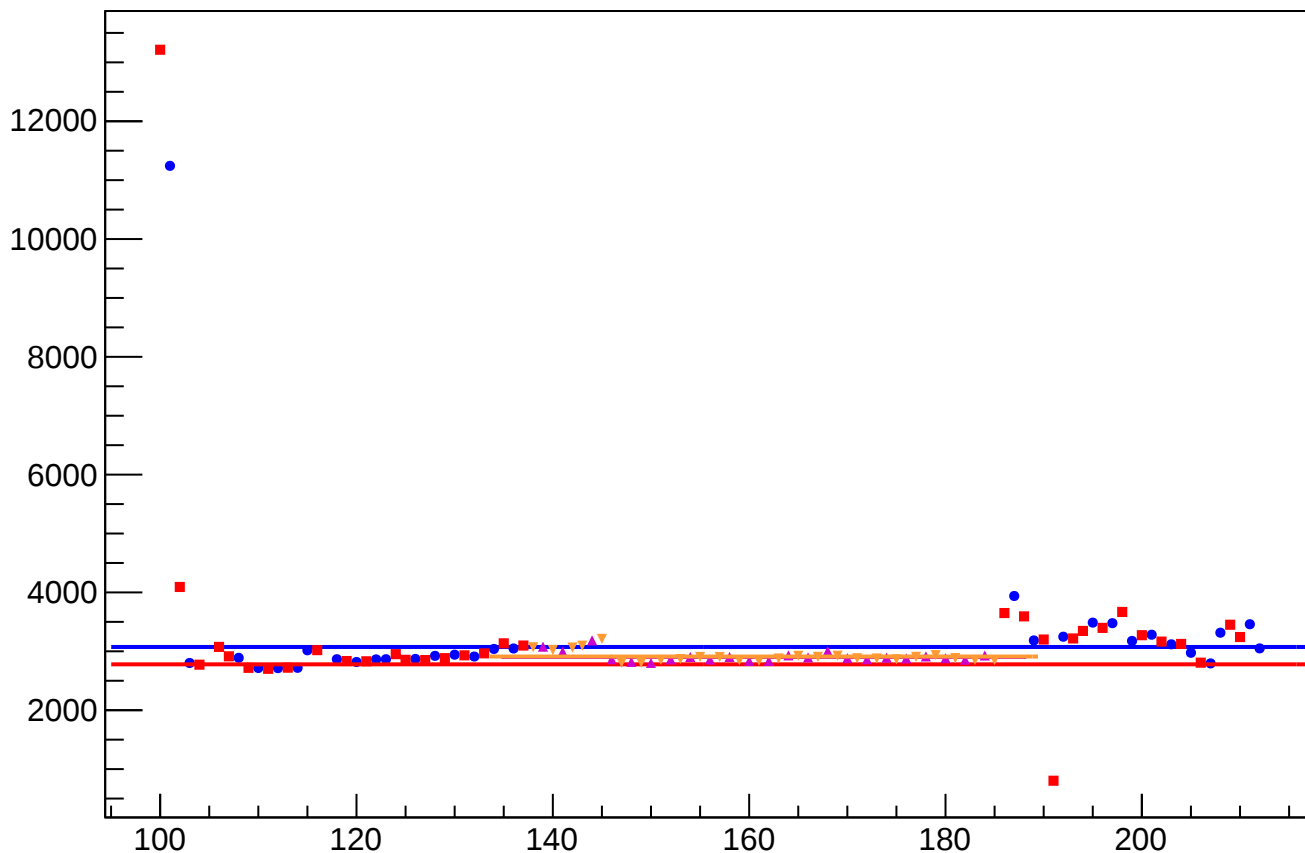
Right: 2112.613+/-530.576 χ^2/NDF : 46.6/62

In: 2540.850+/-519.867 χ^2/NDF : 56.8/52

Out: 2479.451+/-494.477 χ^2/NDF : 65.5/57

All: 2508.615+/-358.288 χ^2/NDF : 122.3/110

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3073.661+/-0.553 χ^2/NDF : 808453.6/29

Left Out: 2911.226+/-0.480 χ^2/NDF :36644.3/24

Right Out: 2778.850+/-0.511 χ^2/NDF : 2771131.7/32

Left In: 2903.411+/-0.492 χ^2/NDF :28838.5/22

Left: 2907.416+/-0.343 χ^2/NDF : 65612.1/47

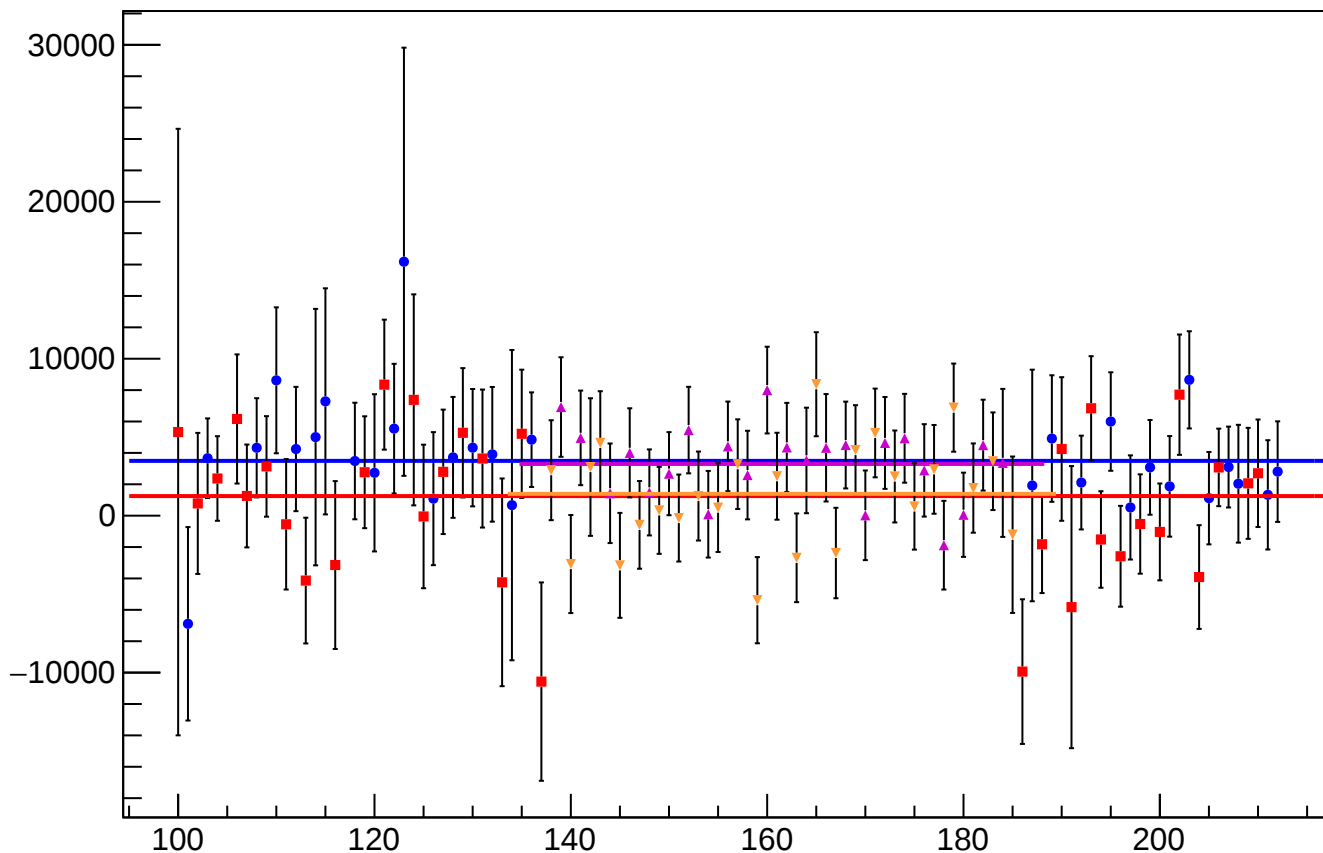
Right: 2914.505+/-0.375 χ^2/NDF : 3732974.2/62

In: 2978.620+/-0.368 χ^2/NDF :890188.5/52

Out: 2849.155+/-0.350 χ^2/NDF :2843471.3/57

All: 2910.649+/-0.253 χ^2/NDF : 3798780.5/11

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3492.014 $\pm$ 676.635 χ^2 /NDF: 12.4/29

Left Out: 1390.275 $\pm$ 596.516 χ^2 /NDF:29.2/24

Right Out: 1248.507 $\pm$ 662.052 χ^2 /NDF: 35.2/32

Left In: 3295.367 $\pm$ 609.991 χ^2 /NDF:14.9/22

Left: 2321.546 $\pm$ 426.485 χ^2 /NDF: 49.0/47

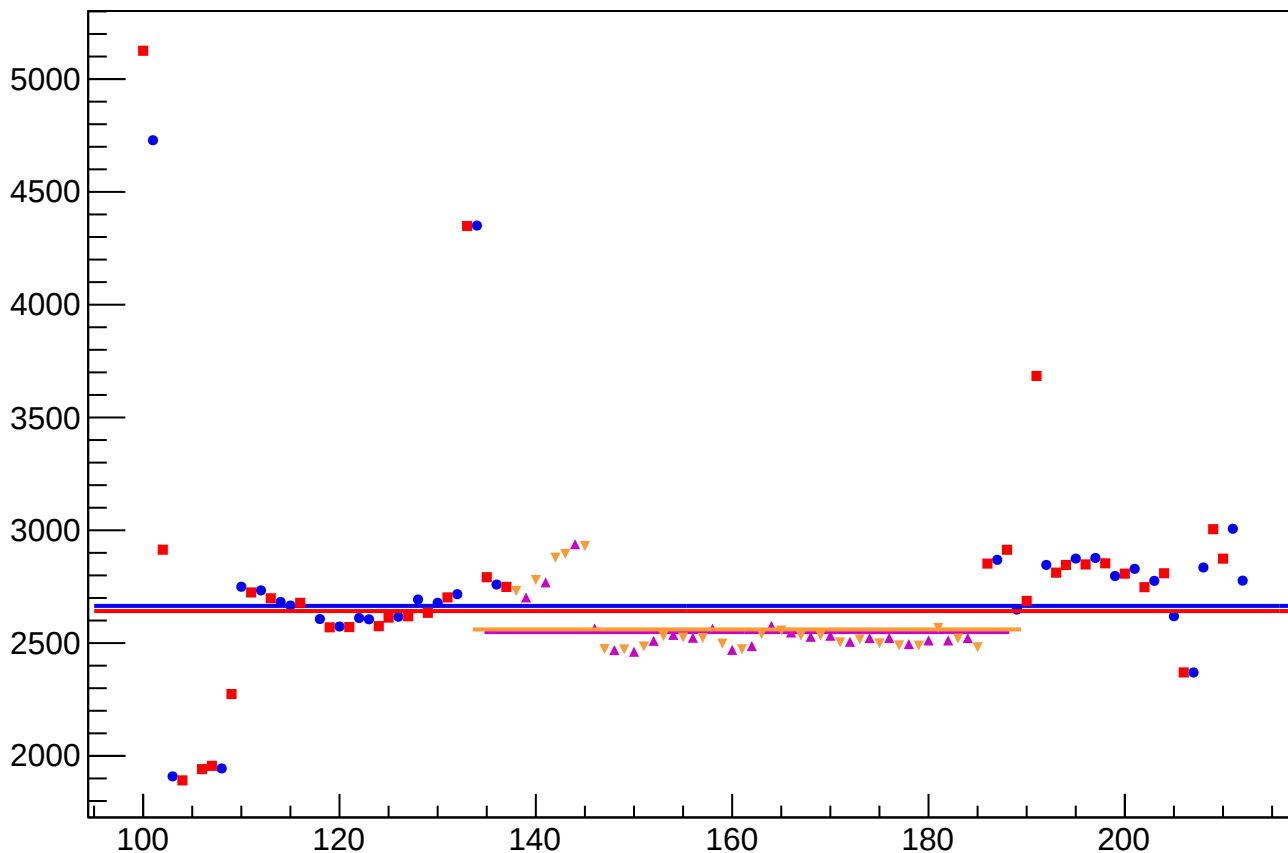
Right: 2345.823 $\pm$ 473.213 χ^2 /NDF: 53.2/62

In: 3383.532 $\pm$ 453.063 χ^2 /NDF:27.3/52

Out: 1326.753 $\pm$ 443.164 χ^2 /NDF:64.3/57

All: 2332.427 $\pm$ 316.806 χ^2 /NDF: 102.2/110

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2664.866 $\pm$ 0.478 χ^2 /NDF: 659749.9/29

Left Out: 2560.531 $\pm$ 0.422 χ^2 /NDF: 86771.4/24

Right Out: 2641.946 $\pm$ 0.468 χ^2 /NDF: 652037.8/32

Left In: 2548.870 $\pm$ 0.431 χ^2 /NDF: 55266.2/22

Left: 2554.831 $\pm$ 0.302 χ^2 /NDF: 142411.2/47

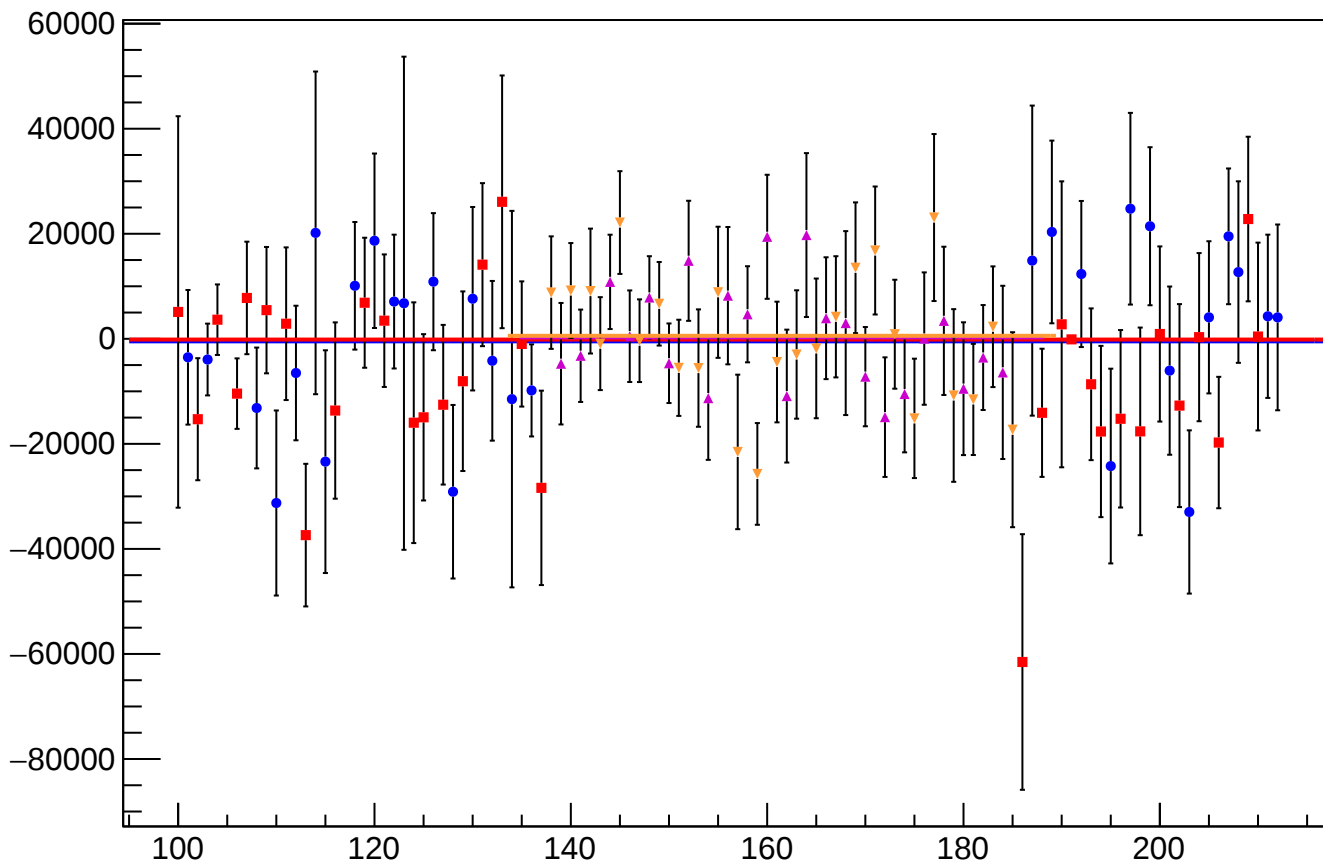
Right: 2653.157 $\pm$ 0.335 χ^2 /NDF: 1312960.0/62

In: 2600.876 $\pm$ 0.320 χ^2 /NDF: 747441.1/52

Out: 2597.011 $\pm$ 0.313 χ^2 /NDF: 755502.4/57

All: 2598.901 $\pm$ 0.224 χ^2 /NDF: 1503017.9/111

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -481.872 $\pm$ 2625.760 χ^2 /NDF: 30.1/29

Left Out: 572.477 $\pm$ 2184.376 χ^2 /NDF:28.2/24

Right Out: -142.146 $\pm$ 194.916 χ^2 /NDF: 36.2/32

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

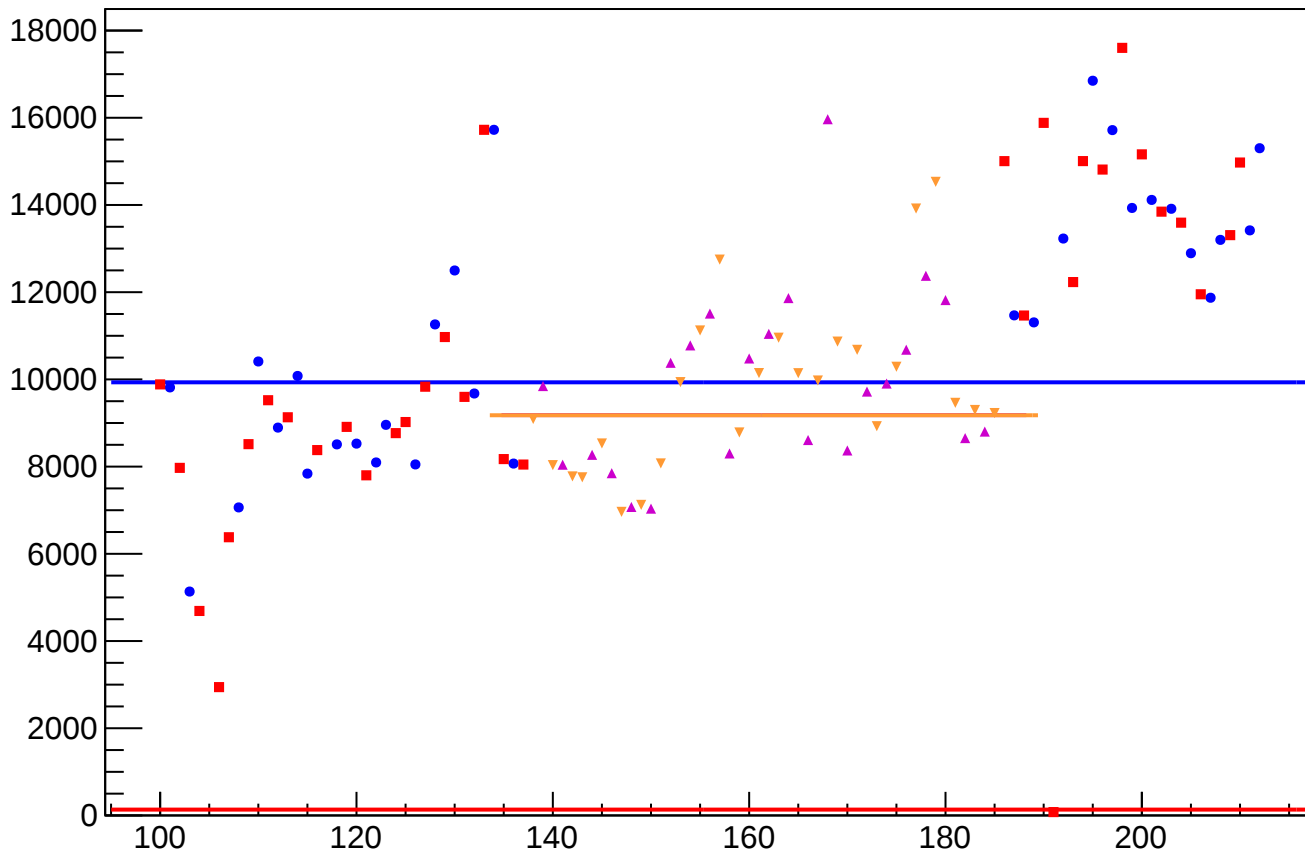
Right: -144.008 $\pm$ 194.381 χ^2 /NDF: 66.3/62

In: -44.205 $\pm$ 1705.394 χ^2 /NDF:45.8/52

Out: -136.501 $\pm$ 194.145 χ^2 /NDF:64.5/57

All: -135.321 $\pm$ 192.899 χ^2 /NDF: 110.4/110

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 9933.025 $\pm$ 1.857

χ^2 /NDF: 2973301.7/29

Left: 9179.424 $\pm$ 1.107

χ^2 /NDF: 2412668.1/47

Left Out: 9177.688 $\pm$ 1.545

χ^2 /NDF: 1176195.8/24

Right: 187.997 $\pm$ 0.137

χ^2 /NDF: 62044578.9/62

Right Out: 134.298 $\pm$ 0.138

χ^2 /NDF: 31371734.1/32

In: 9498.375 $\pm$ 1.206

χ^2 /NDF: 4304557.6/52

Out: 205.736 $\pm$ 0.137

χ^2 /NDF: 66556891.6/57

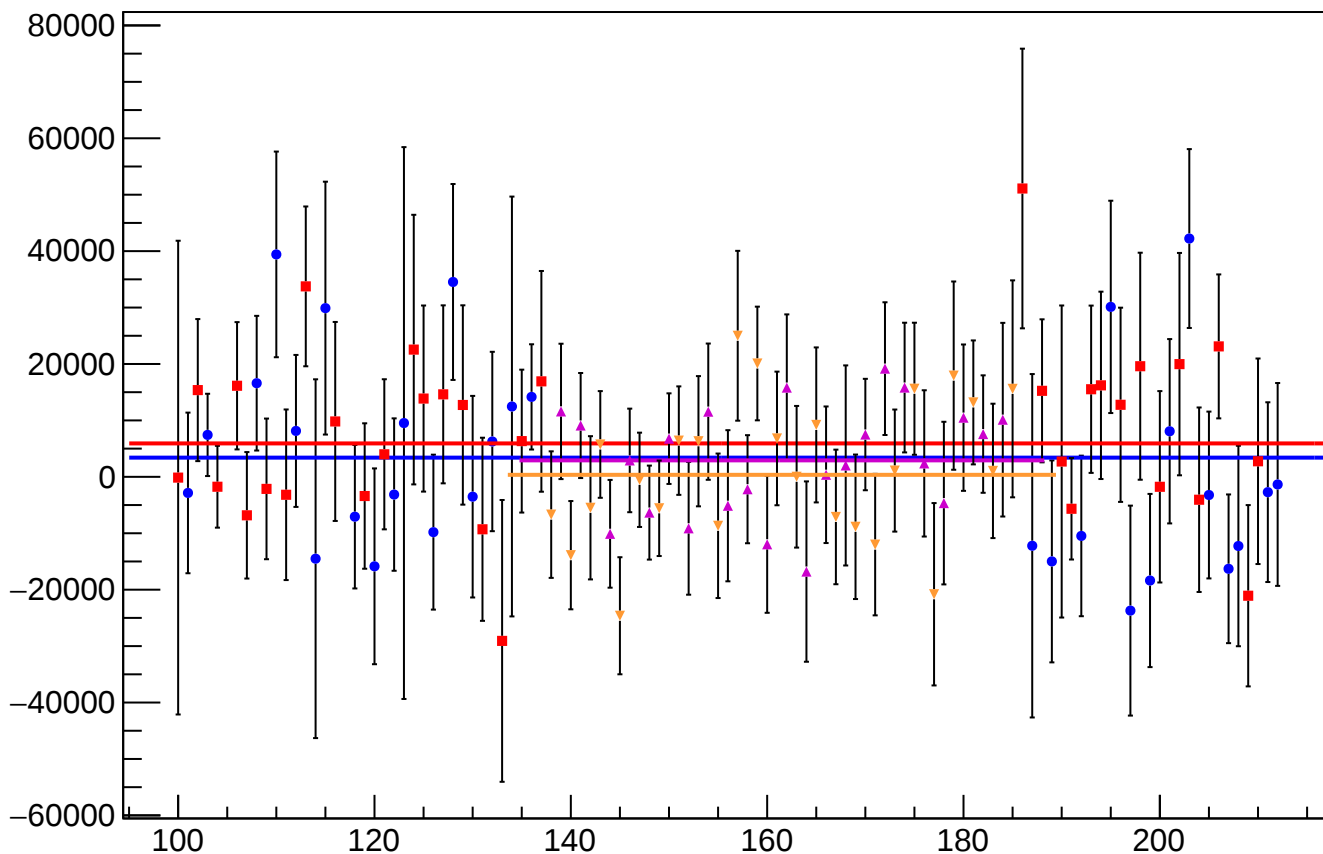
Left In: 9181.254 $\pm$ 1.586

χ^2 /NDF: 1236469.7/22

All: 324.627 $\pm$ 0.136

χ^2 /NDF: 129484246.3/37

asym_atr2_mean vs Slug, Sign Corrected



Right In: 3402.727+/-2742.218 χ^2/NDF : 33.3/29

Left Out: 355.717+/-2281.682 χ^2/NDF : 26.2/24

Right Out: 5922.649+/-2518.212 χ^2/NDF : 26.1/32

Left In: 2918.356+/-2338.461 χ^2/NDF : 14.9/22

Left: 1605.548+/-1633.097 χ^2/NDF : 41.8/47

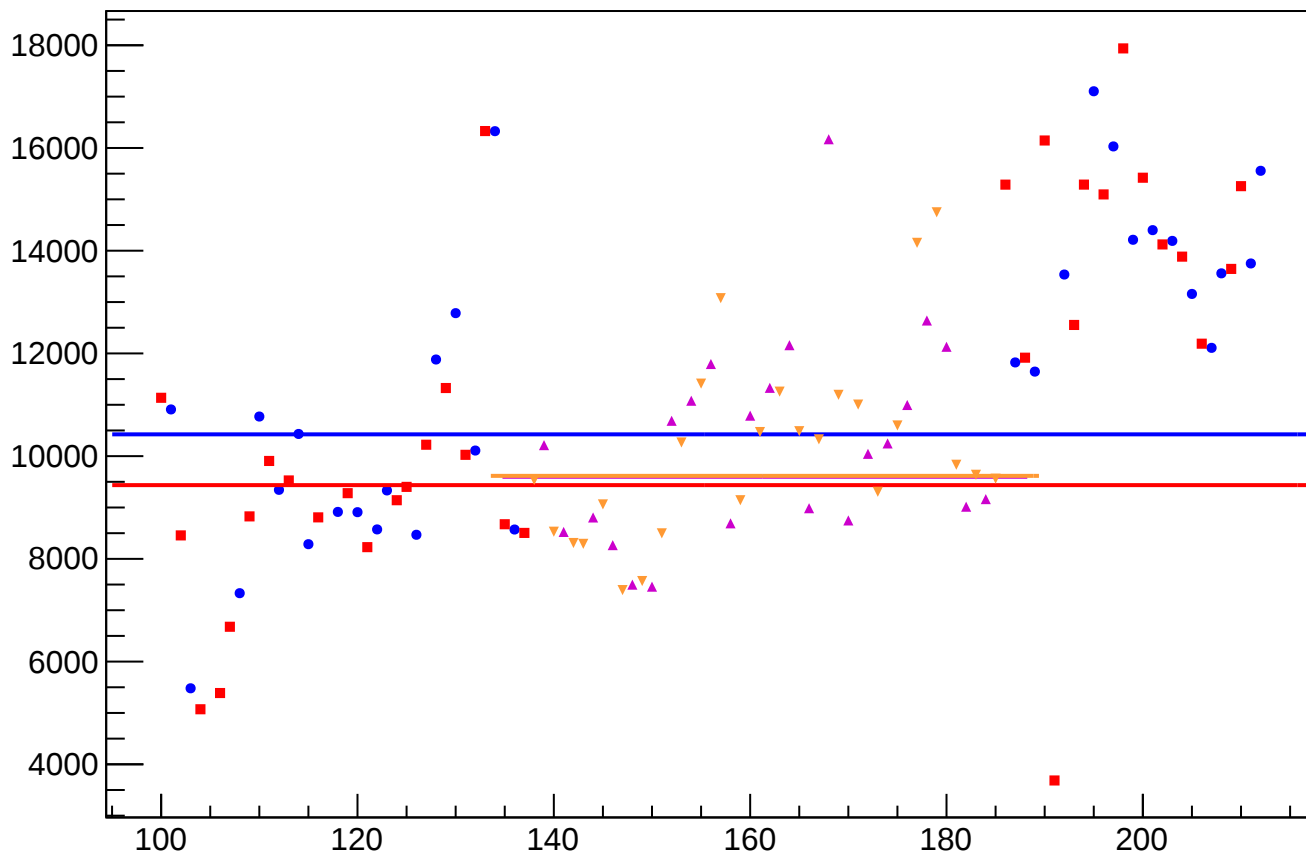
Right: 4769.800+/-1854.789 χ^2/NDF : 59.8/62

In: 3122.290+/-1779.337 χ^2/NDF : 48.2/52

Out: 2865.520+/-1690.846 χ^2/NDF : 55.0/57

All: 2987.361+/-1225.699 χ^2/NDF : 103.3/110

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10424.394 $\pm$ 1.939 χ^2/NDF : 2699471.9/29

Left Out: 9616.245 $\pm$ 1.613 χ^2/NDF : 1011665.6/24

Right Out: 9435.707 $\pm$ 1.781 χ^2/NDF : 4319239.2/32

Left In: 9598.531 $\pm$ 1.654 χ^2/NDF : 1082171.6/22

Left: 9607.606 $\pm$ 1.155 χ^2/NDF : 2093896.0/47

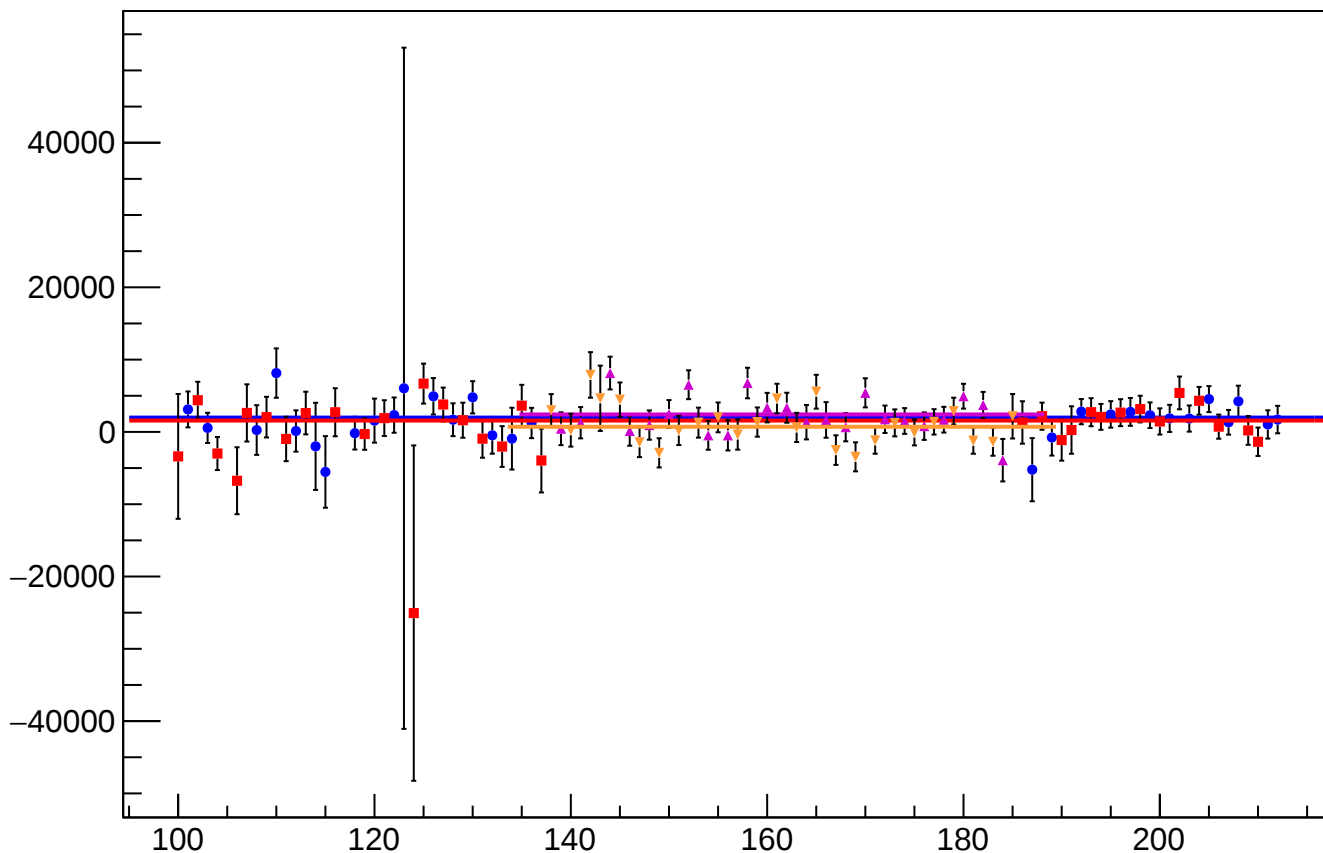
Right: 9888.011 $\pm$ 1.312 χ^2/NDF : 7159757.1/62

In: 9946.244 $\pm$ 1.258 χ^2/NDF : 3886670.0/52

Out: 9534.849 $\pm$ 1.196 χ^2/NDF : 5336550.3/57

All: 9730.060 $\pm$ 0.867 χ^2/NDF : 9279402.3/111

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1982.198+/-421.363 χ^2/NDF : 20.7/29

Left Out: 709.722+/-417.377 χ^2/NDF : 34.8/24

Right Out: 1573.169+/-421.582 χ^2/NDF : 31.3/32

Left In: 2414.749+/-423.472 χ^2/NDF : 34.0/22

Left: 1549.879+/-297.262 χ^2/NDF : 77.0/47

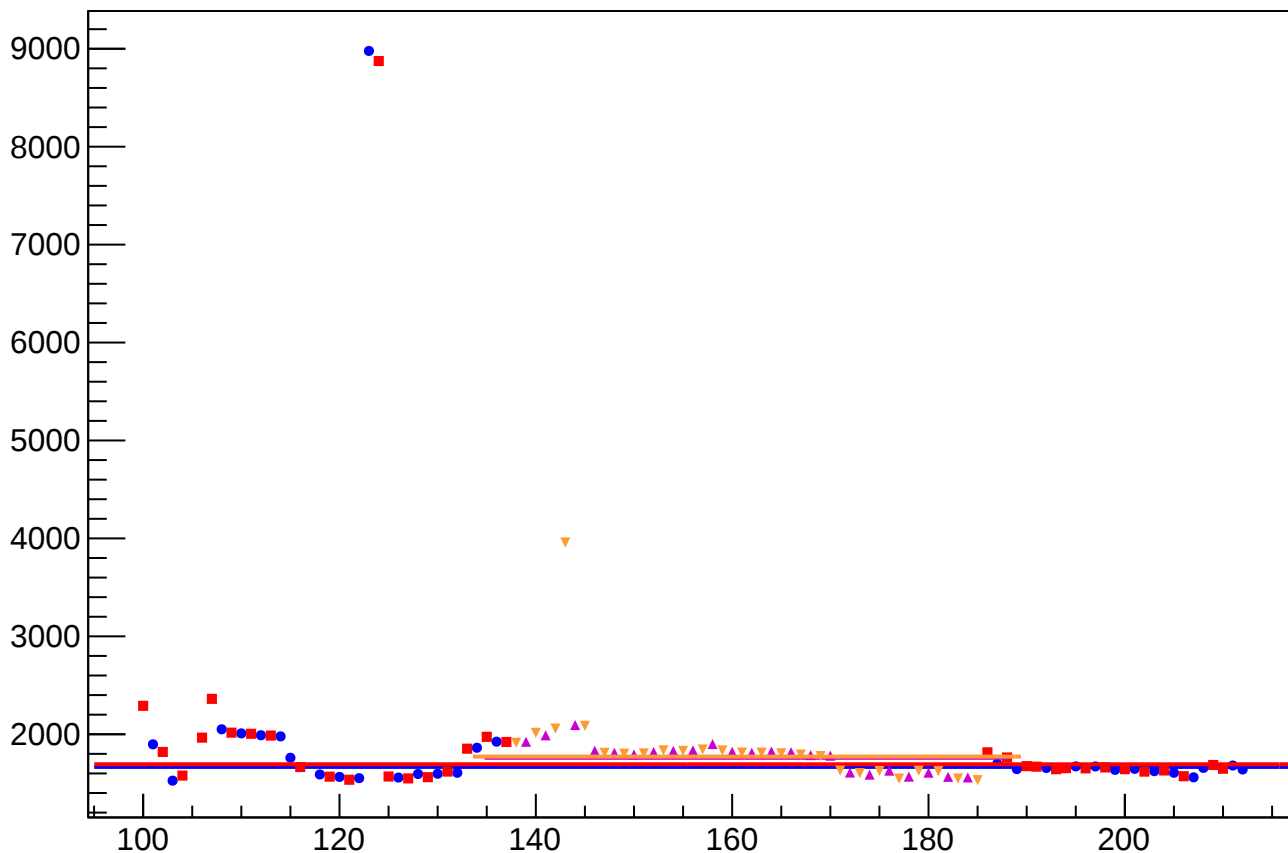
Right: 1777.790+/-298.026 χ^2/NDF : 52.5/62

In: 2197.394+/-298.691 χ^2/NDF : 55.2/52

Out: 1137.118+/-296.606 χ^2/NDF : 68.2/57

All: 1663.542+/-210.465 χ^2/NDF : 129.8/110

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1666.723+/-0.298 χ^2/NDF : 216213.6/29

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1693.362+/-0.298 χ^2/NDF : 437598.7/32

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

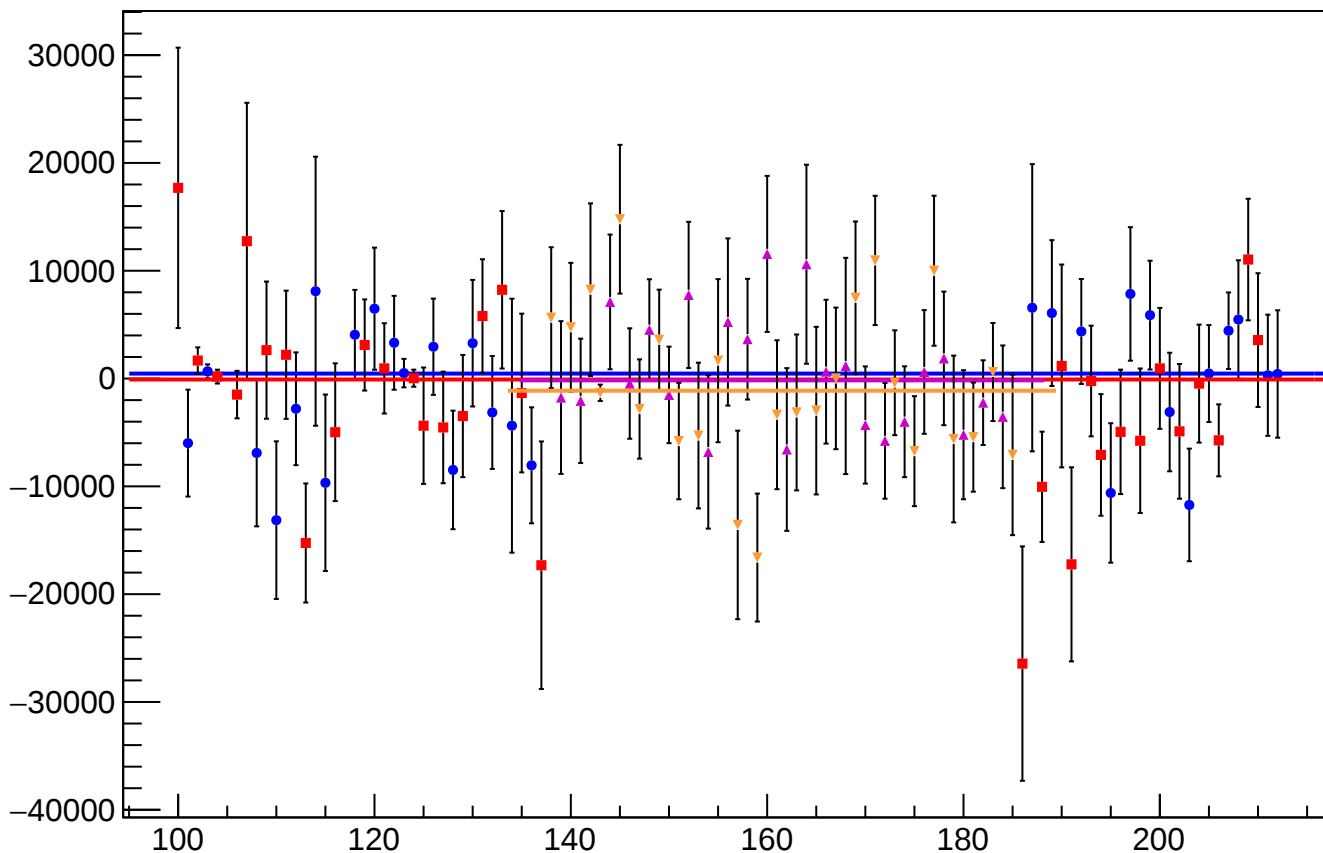
Right: 1680.059+/-0.211 χ^2/NDF : 657814.1/62

In: 1712.930+/-0.211 χ^2/NDF : 479446.8/52

Out: 1733.029+/-0.210 χ^2/NDF : 1175317.1/57

All: 1723.058+/-0.149 χ^2/NDF : 1659327.6/11

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 460.107+/-508.205 χ^2/NDF : 32.4/29

Left Out: -1129.807+/-647.600 χ^2/NDF :31.5/24

Right Out: -87.099+/-417.132 χ^2/NDF : 45.2/32

Left In: -168.182+/-1232.411 χ^2/NDF :14.2/22

Left: -921.734+/-573.272 χ^2/NDF : 46.1/47

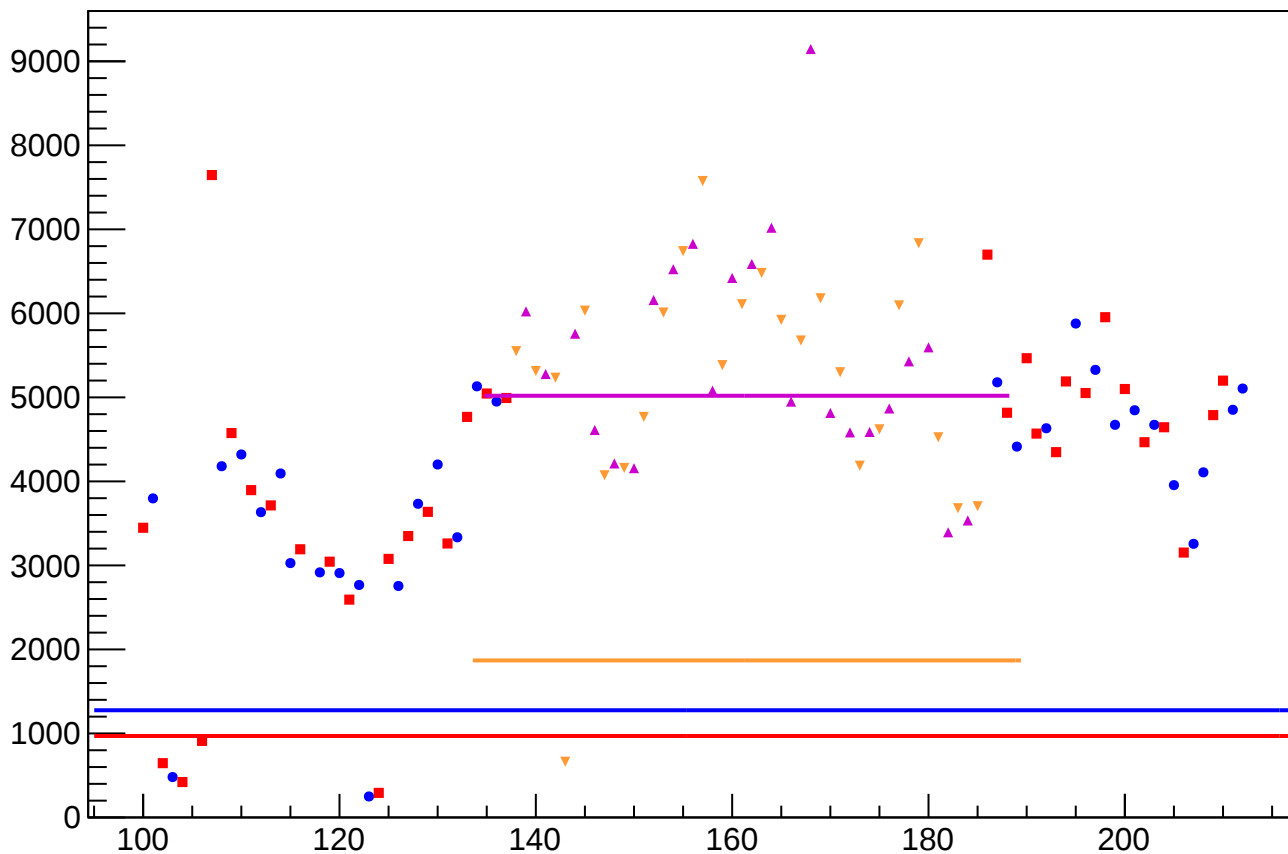
Right: 133.163+/-322.429 χ^2/NDF : 78.3/62

In: 368.796+/-469.827 χ^2/NDF :46.7/52

Out: -392.854+/-350.681 χ^2/NDF :78.5/57

All: -120.344+/-281.029 χ^2/NDF : 127.0/110

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1275.933 $\pm$ 0.359

χ^2/NDF : 1885201.2/29

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: 1093.022 $\pm$ 0.228

χ^2/NDF : 40428079.4/62

Right Out: 969.795 $\pm$ 0.295

χ^2/NDF : 21139257.9/32

In: 1819.941 $\pm$ 0.332

χ^2/NDF : 36192983.9/52

Out: 1233.465 $\pm$ 0.248

χ^2/NDF : 43716857.0/57

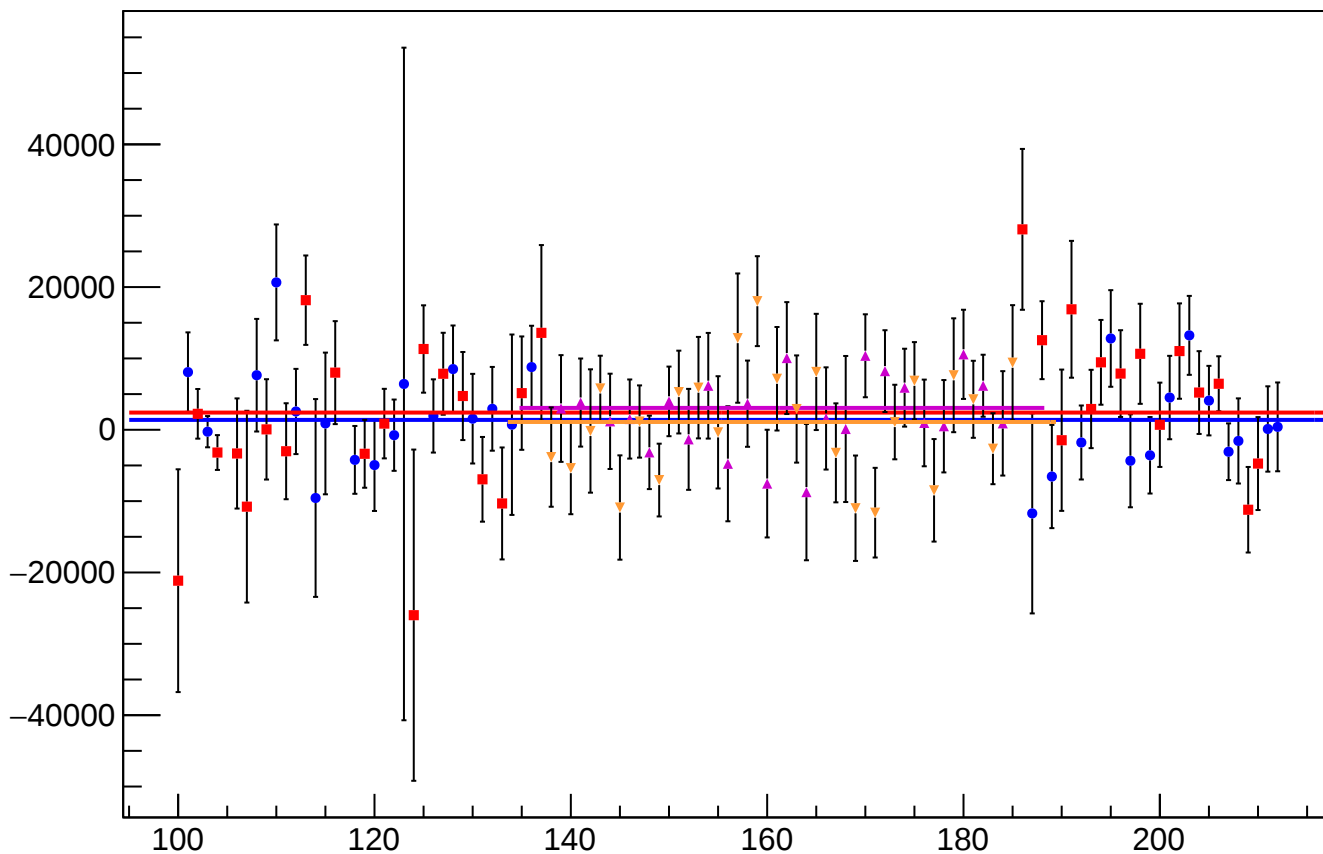
Left In: 5019.114 $\pm$ 0.871

χ^2/NDF : 1569031.9/22

All: 1443.299 $\pm$ 0.199

χ^2/NDF : 81911236.1/13

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1384.451+/-1014.973 χ^2/NDF : 28.3/29

Left Out: 1094.317+/-1273.113 χ^2/NDF : 32.0/24

Right Out: 2411.375+/-1013.607 χ^2/NDF : 53.1/32

Left In: 3064.775+/-1318.173 χ^2/NDF : 12.6/22

Left: 2045.291+/-915.742 χ^2/NDF : 45.7/47

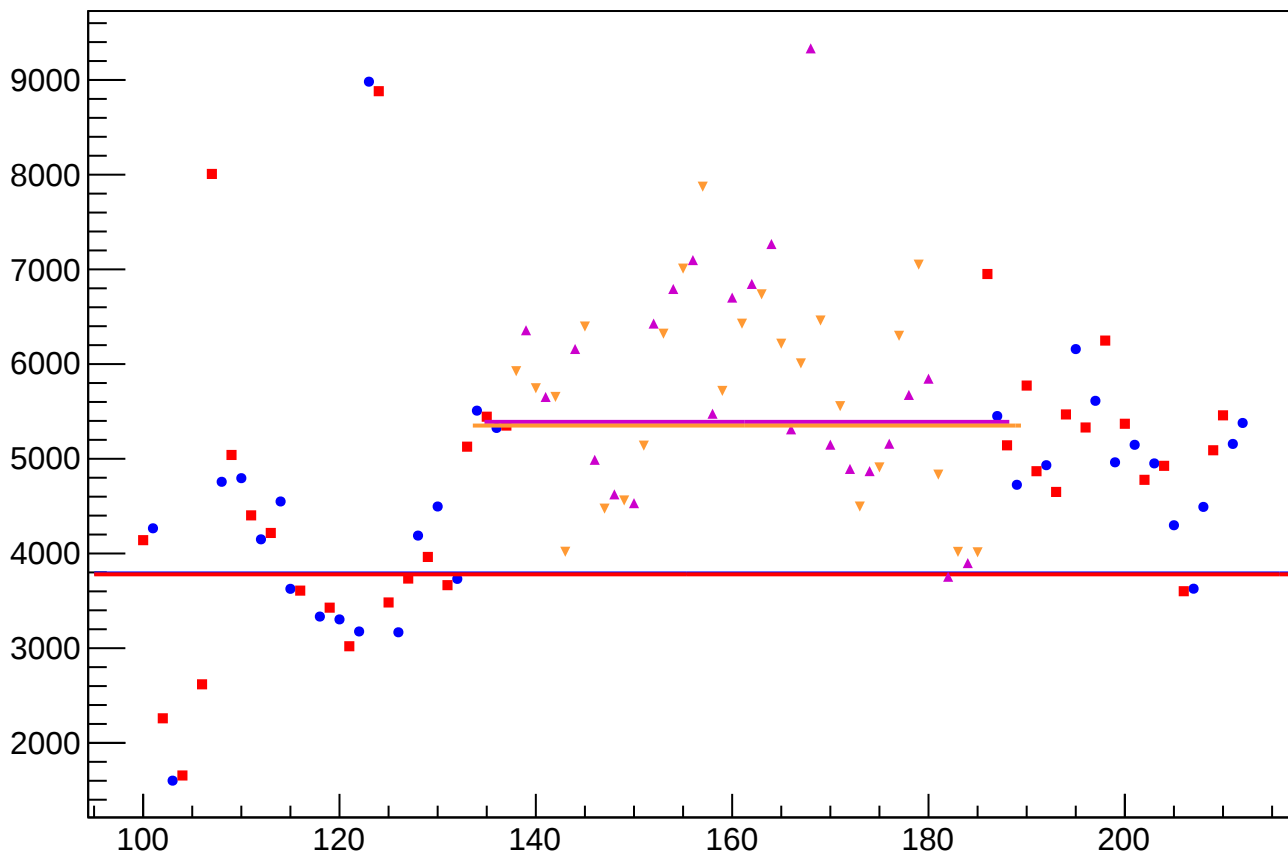
Right: 1898.604+/-717.211 χ^2/NDF : 81.9/62

In: 2009.875+/-804.199 χ^2/NDF : 41.9/52

Out: 1900.410+/-792.975 χ^2/NDF : 85.8/57

All: 1954.374+/-564.645 χ^2/NDF : 127.6/110

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3789.263 $\pm$ 0.718

χ^2 /NDF: 3553855.4/29

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

Right: 3784.525 $\pm$ 0.505 χ^2 /NDF: 7658009.0/62

Left Out: 5350.804 $\pm$ 0.900

χ^2 /NDF: 1241497.9/24

In: 4384.960 $\pm$ 0.569 χ^2 /NDF: 6714665.1/52

Right Out: 3779.885 $\pm$ 0.710

χ^2 /NDF: 4104067.3/32

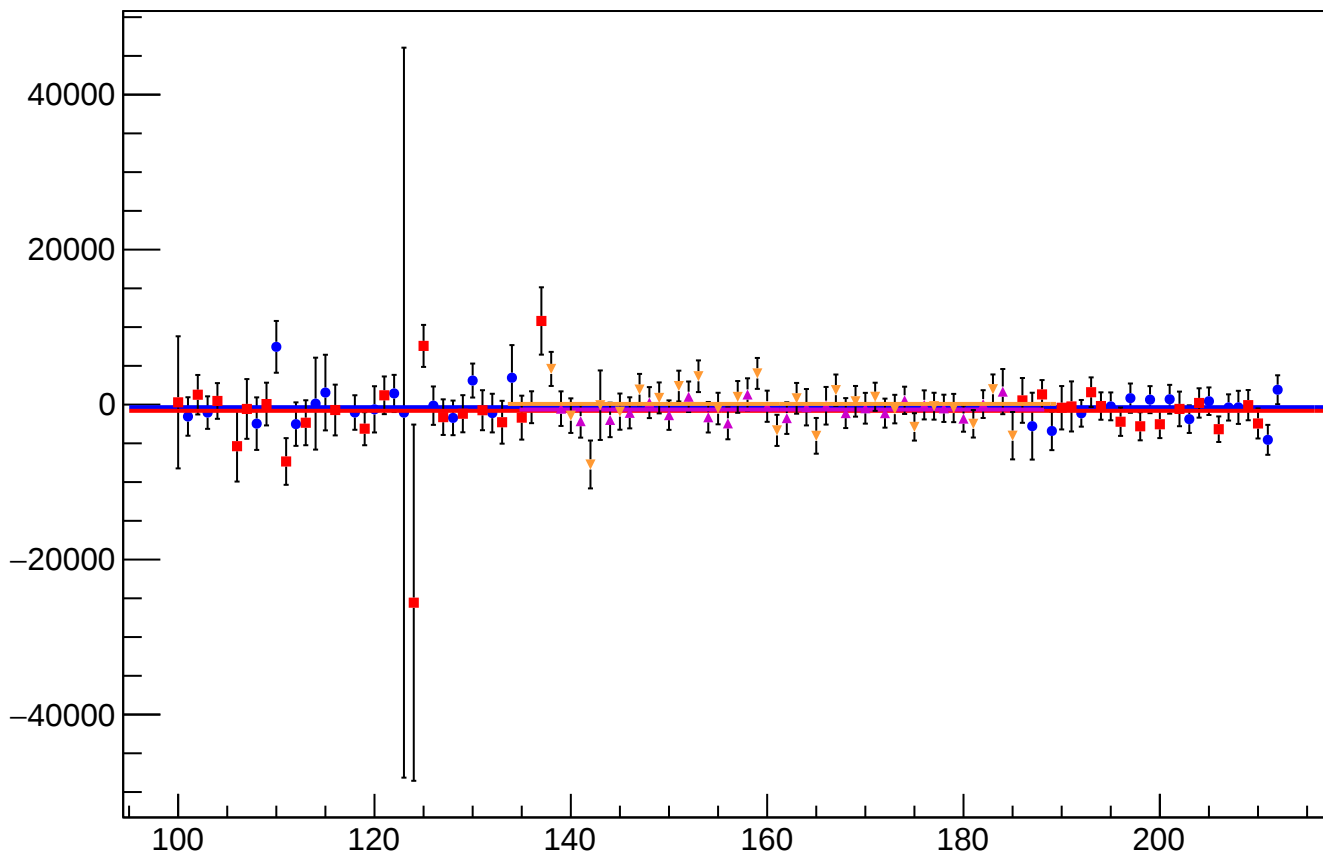
Out: 4382.555 $\pm$ 0.558 χ^2 /NDF: 7222449.5/57

Left In: 5389.724 $\pm$ 0.932

χ^2 /NDF: 1309863.0/22

All: 4383.734 $\pm$ 0.398 χ^2 /NDF: 13937123.8/100

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -332.926 ± 415.503 χ^2/NDF : 21.5/29

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -803.273 ± 415.456 χ^2/NDF : 36.5/32

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

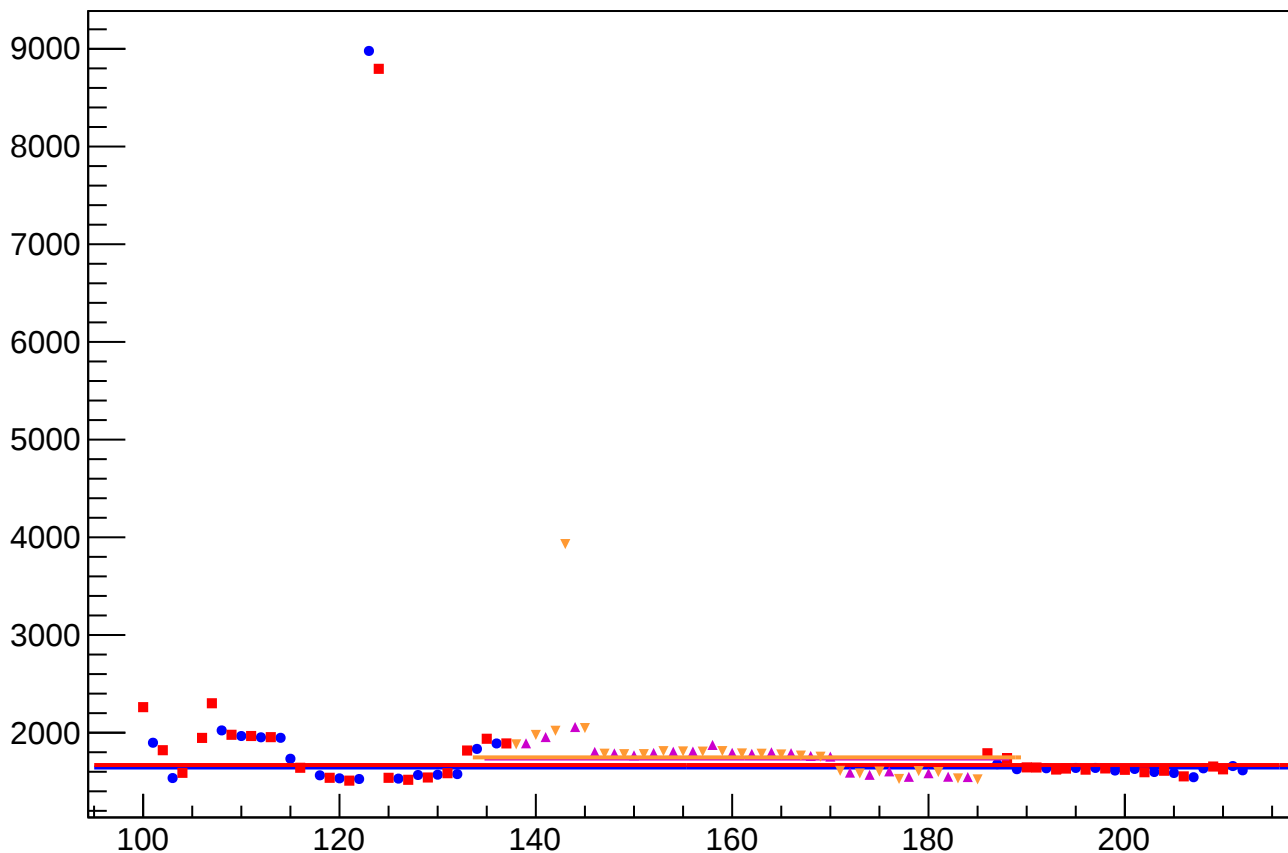
Right: -568.126 ± 293.788 χ^2/NDF : 58.7/62

In: -485.791 ± 294.559 χ^2/NDF : 28.0/52

Out: -354.307 ± 292.374 χ^2/NDF : 74.9/57

All: -419.559 ± 207.508 χ^2/NDF : 103.0/110

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1643.608 $\pm$ 0.294 χ^2 /NDF: 213568.5/29

Left Out: 1747.320 $\pm$ 0.291 χ^2 /NDF: 698192.3/24

Right Out: 1669.004 $\pm$ 0.293 χ^2 /NDF: 433338.2/32

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

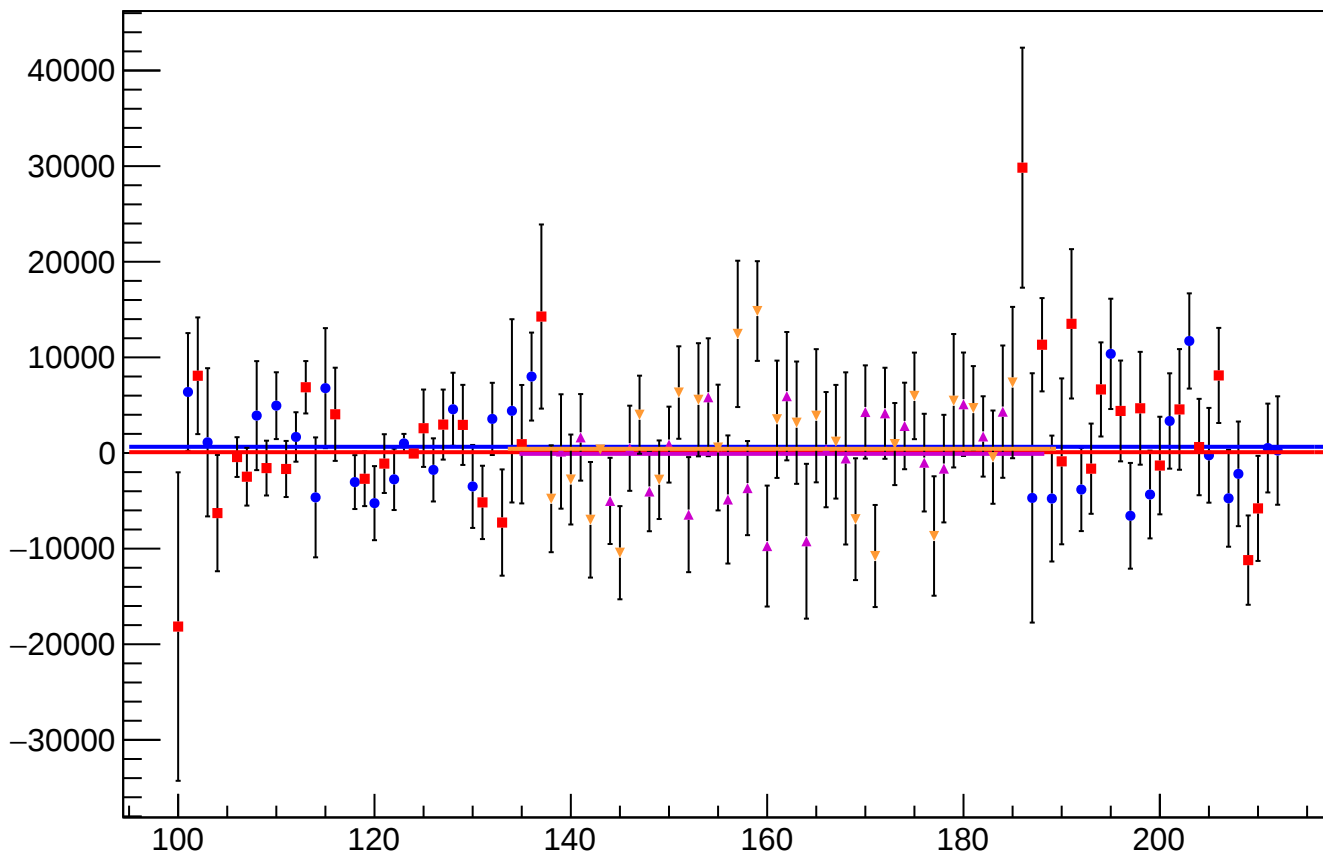
Right: 1656.329 $\pm$ 0.208 χ^2 /NDF: 650649.1/62

In: 1689.338 $\pm$ 0.208 χ^2 /NDF: 469037.2/52

Out: 1708.467 $\pm$ 0.207 χ^2 /NDF: 1167464.9/57

All: 1698.982 $\pm$ 0.147 χ^2 /NDF: 1640754.2/111

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 649.434 $\pm$ 636.956 χ^2/NDF : 29.9/29

Left Out: 442.187 $\pm$ 440.335 χ^2/NDF :33.9/24

Right Out: 85.399 $\pm$ 347.439 χ^2/NDF : 48.1/32

Left In: -88.508 $\pm$ 1094.838 χ^2/NDF :13.4/22

Left: 368.296 $\pm$ 408.531 χ^2/NDF : 47.5/47

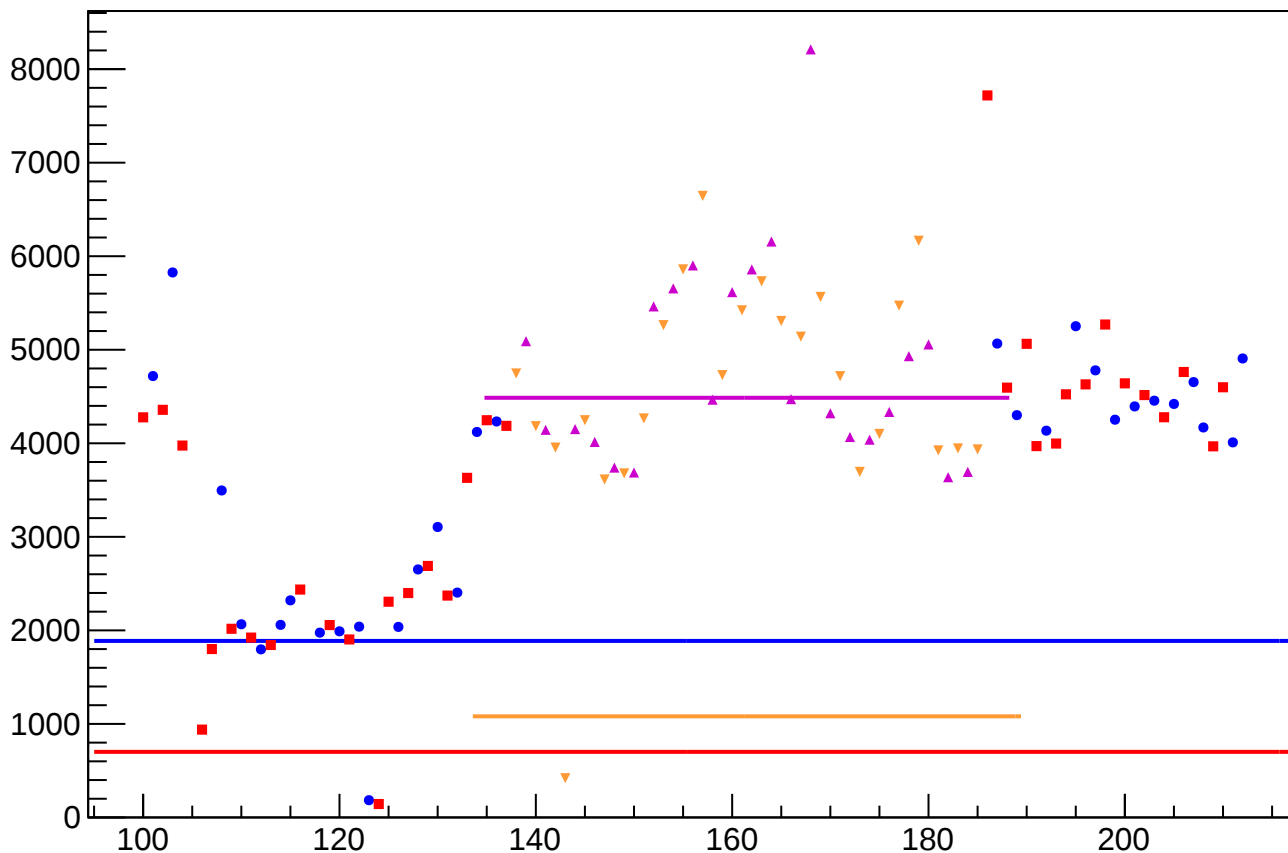
Right: 214.737 $\pm$ 305.013 χ^2/NDF : 78.7/62

In: 462.825 $\pm$ 550.561 χ^2/NDF :43.7/52

Out: 222.297 $\pm$ 272.757 χ^2/NDF :82.5/57

All: 269.698 $\pm$ 244.408 χ^2/NDF : 126.3/110

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1887.312 $\pm$ 0.450

χ^2 /NDF: 14085131.9/29

Left: 1555.179 $\pm$ 0.289

χ^2 /NDF: 42294704.7/47

Left Out: 1081.004 $\pm$ 0.311

χ^2 /NDF: 24456244.2/24

Right: 973.164 $\pm$ 0.216

χ^2 /NDF: 43807969.4/62

Right Out: 701.174 $\pm$ 0.246

χ^2 /NDF: 24377653.7/32

In: 2544.606 $\pm$ 0.389

χ^2 /NDF: 23688838.1/52

Out: 846.913 $\pm$ 0.193

χ^2 /NDF: 49751044.9/57

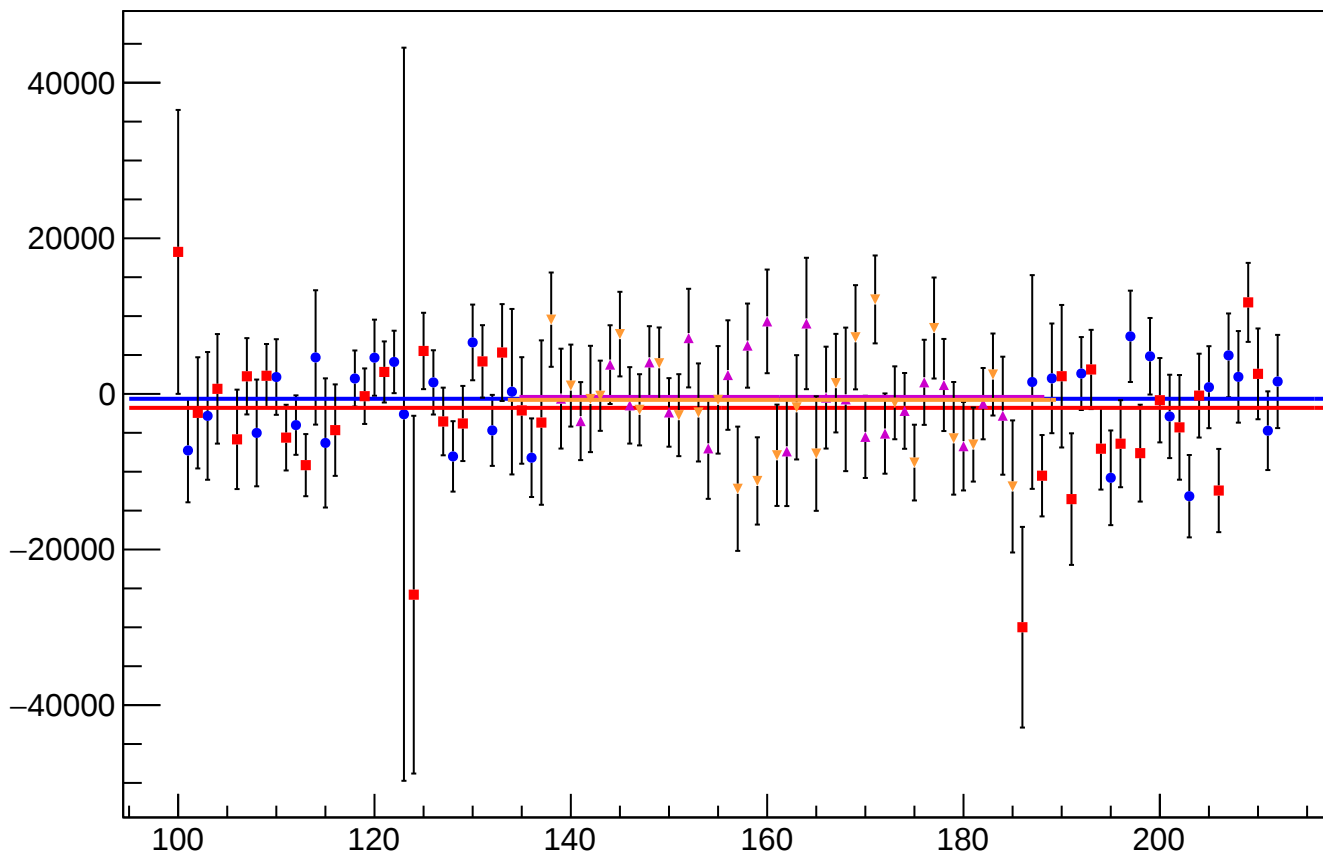
Left In: 4486.570 $\pm$ 0.774

χ^2 /NDF: 1181598.1/22

All: 1181.477 $\pm$ 0.173

χ^2 /NDF: 88709072.9/131

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -626.802 ± 985.594 χ^2/NDF : 29.2/29

Left Out: -766.008 ± 1147.372 χ^2/NDF : 29.9/24

Right Out: -1793.169 ± 955.220 χ^2/NDF : 41.2/32

Left In: -388.944 ± 1186.300 χ^2/NDF : 14.2/22

Left: -583.764 ± 824.733 χ^2/NDF : 44.2/47

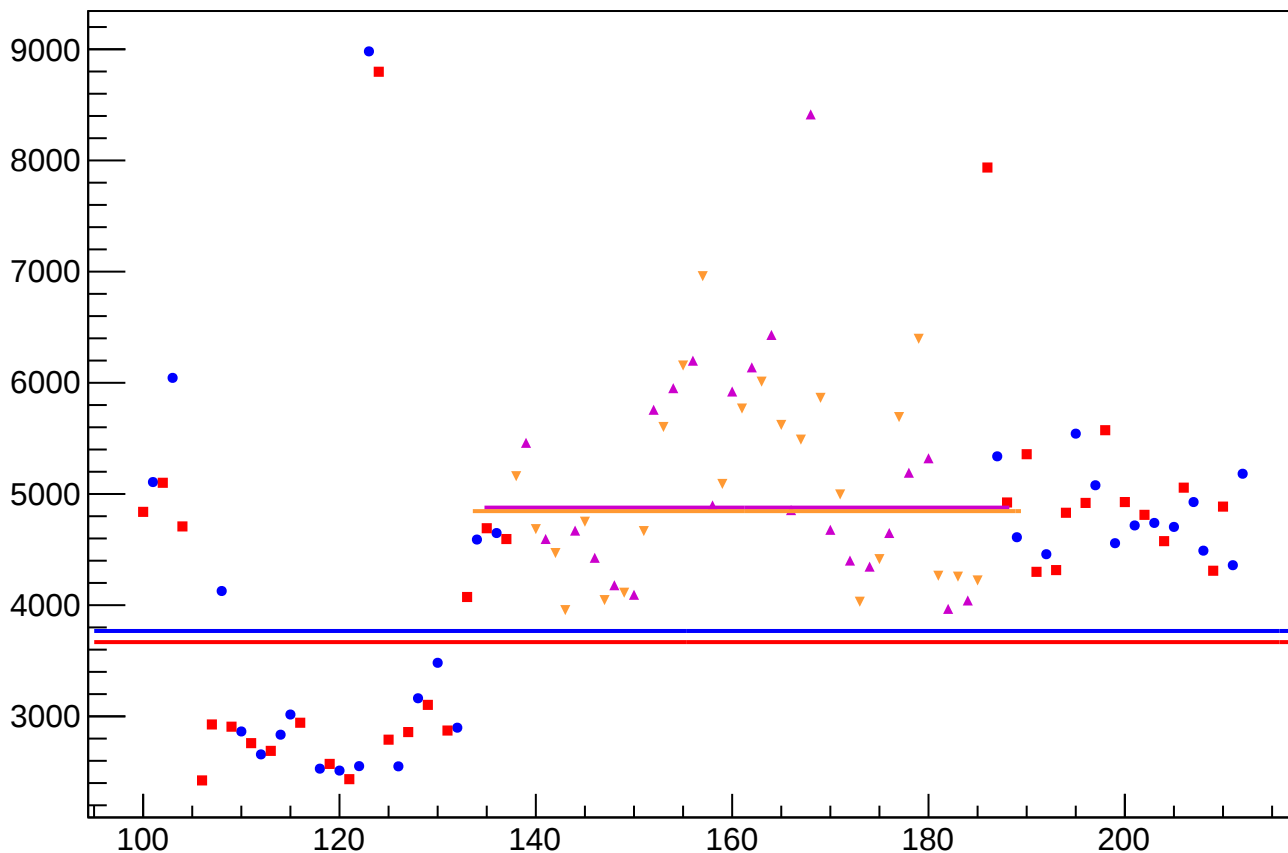
Right: -1228.235 ± 685.929 χ^2/NDF : 71.1/62

In: -529.667 ± 758.093 χ^2/NDF : 43.4/52

Out: -1372.681 ± 734.111 χ^2/NDF : 71.6/57

All: -964.720 ± 527.369 χ^2/NDF : 115.6/110

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3767.883+/-0.697

χ^2/NDF : 2329968.3/29

Left Out: 4845.779+/-0.811

χ^2/NDF : 909173.9/24

Right Out: 3667.784+/-0.670

χ^2/NDF : 2702922.7/32

Left In: 4877.456+/-0.839

χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583

χ^2/NDF : 1868533.9/47

Right: 3715.863+/-0.483

χ^2/NDF : 5043612.1/62

In: 4221.000+/-0.536

χ^2/NDF : 4323738.6/52

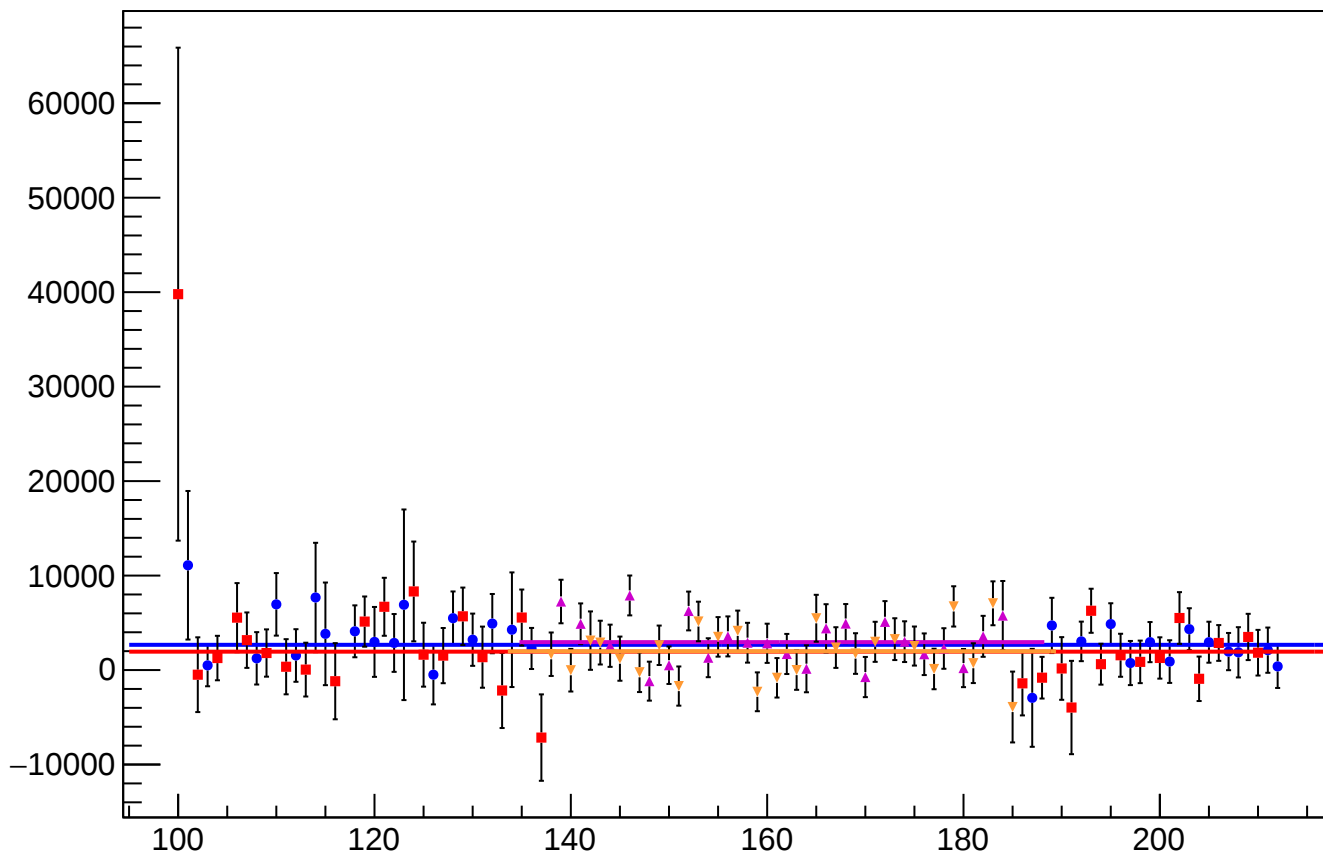
Out: 4145.412+/-0.517

χ^2/NDF : 4865499.8/57

All: 4181.810+/-0.372

χ^2/NDF : 9199547.2/11

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2671.236+/-498.466 χ^2/NDF : 14.0/29

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1947.371+/-489.868 χ^2/NDF : 30.7/32

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

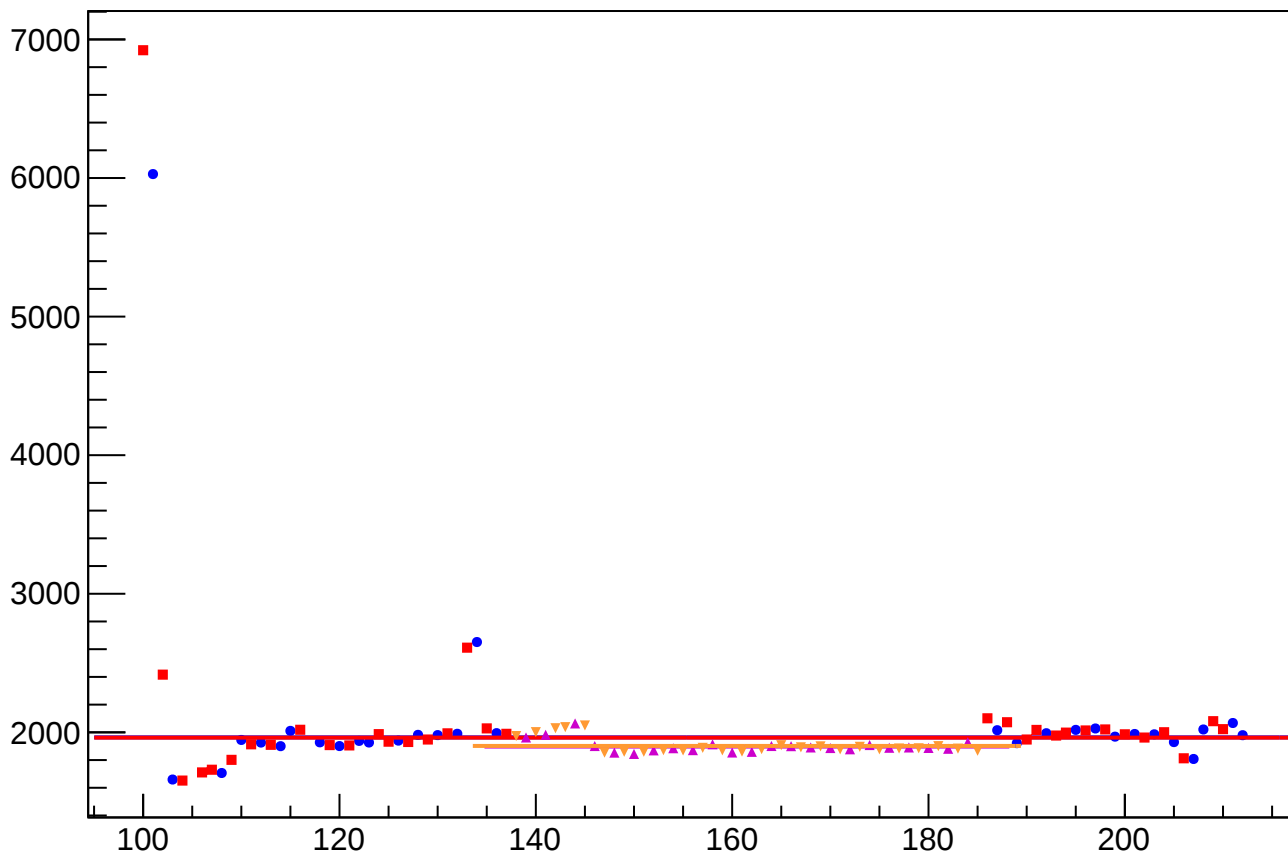
Right: 2303.006+/-349.389 χ^2/NDF : 45.7/62

In: 2826.658+/-335.871 χ^2/NDF : 42.6/52

Out: 1968.321+/-328.649 χ^2/NDF : 63.1/57

All: 2388.163+/-234.902 χ^2/NDF : 109.1/110

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1963.679+/-0.352 χ^2/NDF : 639772.9/29

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1961.824+/-0.346 χ^2/NDF : 253689.5/32

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

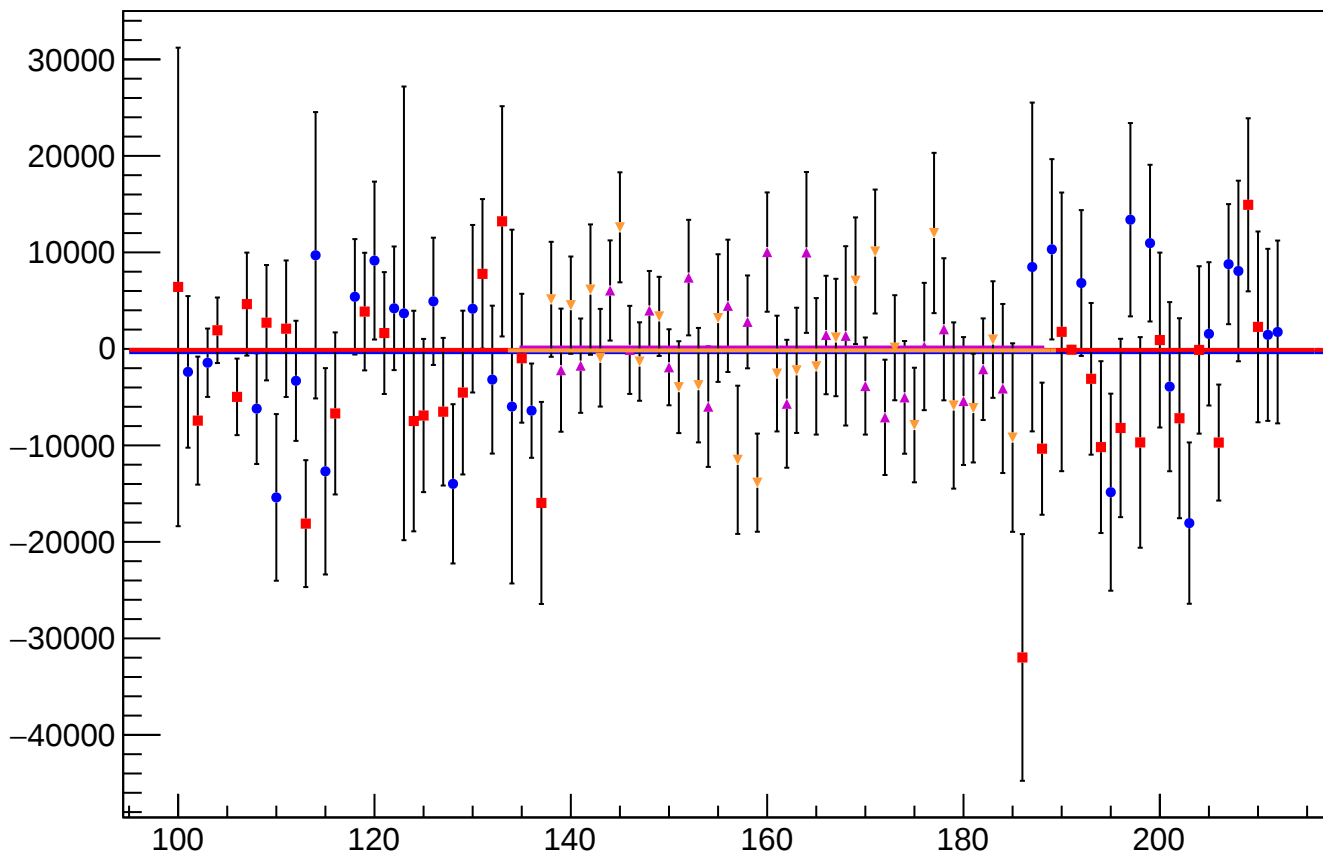
Right: 1962.735+/-0.247 χ^2/NDF : 893476.5/62

In: 1927.522+/-0.237 χ^2/NDF : 680226.5/52

Out: 1928.893+/-0.232 χ^2/NDF : 300621.2/57

All: 1928.223+/-0.166 χ^2/NDF : 980864.8/110

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -336.960+/-1368.035 χ^2/NDF : 30.5/29

Left Out: -157.539+/-1165.844 χ^2/NDF : 29.5/24

Right Out: -103.538+/-109.537 χ^2/NDF : 37.0/32

Left In: 139.000+/-1190.889 χ^2/NDF : 14.7/22

Left: -12.420+/-833.090 χ^2/NDF : 44.2/47

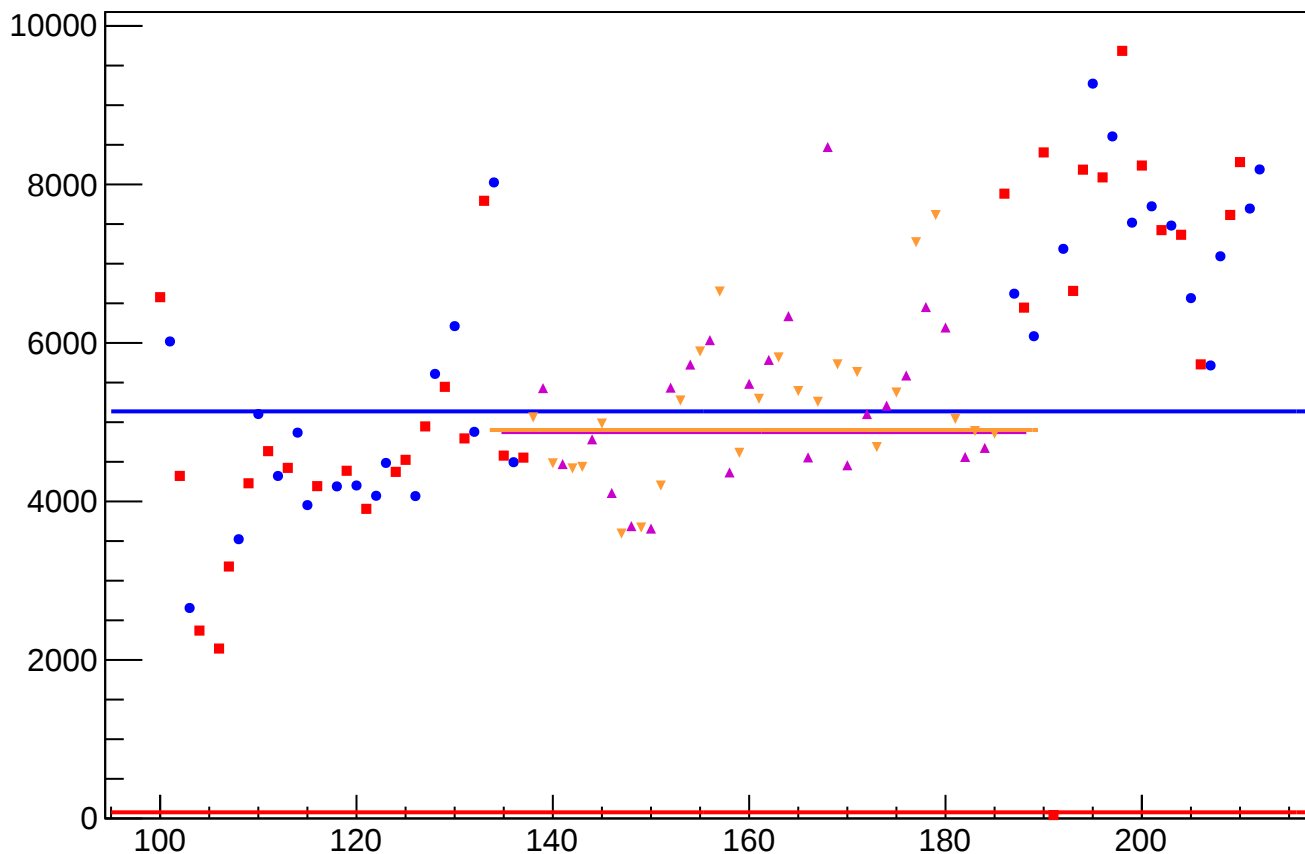
Right: -105.025+/-109.187 χ^2/NDF : 67.5/62

In: -66.188+/-898.231 χ^2/NDF : 45.3/52

Out: -104.011+/-109.056 χ^2/NDF : 66.5/57

All: -103.461+/-108.261 χ^2/NDF : 111.8/110

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 5136.547 $\pm$ 0.967 χ^2 /NDF: 3339320.8/29

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF:1136916.0/24

Right Out: 77.507 $\pm$ 0.077 χ^2 /NDF: 31397110.5/32

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

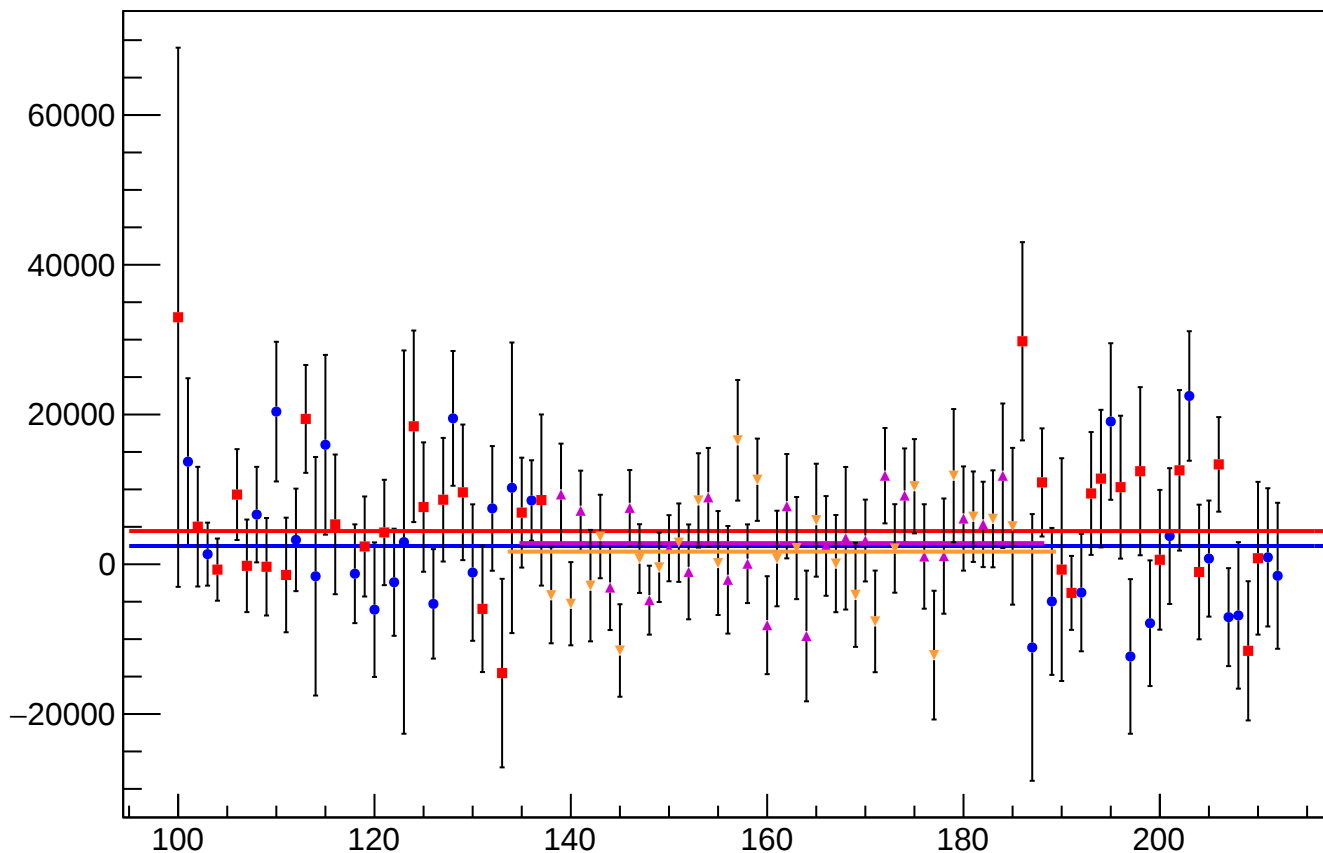
Right: 109.733 $\pm$ 0.077 χ^2 /NDF: 61913125.2/62

In: 4987.817 $\pm$ 0.635 χ^2 /NDF:4610071.0/52

Out: 119.716 $\pm$ 0.077 χ^2 /NDF:66474628.5/57

All: 190.434 $\pm$ 0.077 χ^2 /NDF: 128976629.2/100

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2440.594+/-1499.343 χ^2/NDF : 31.4/29

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 4435.364+/-1374.200 χ^2/NDF : 30.3/32

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

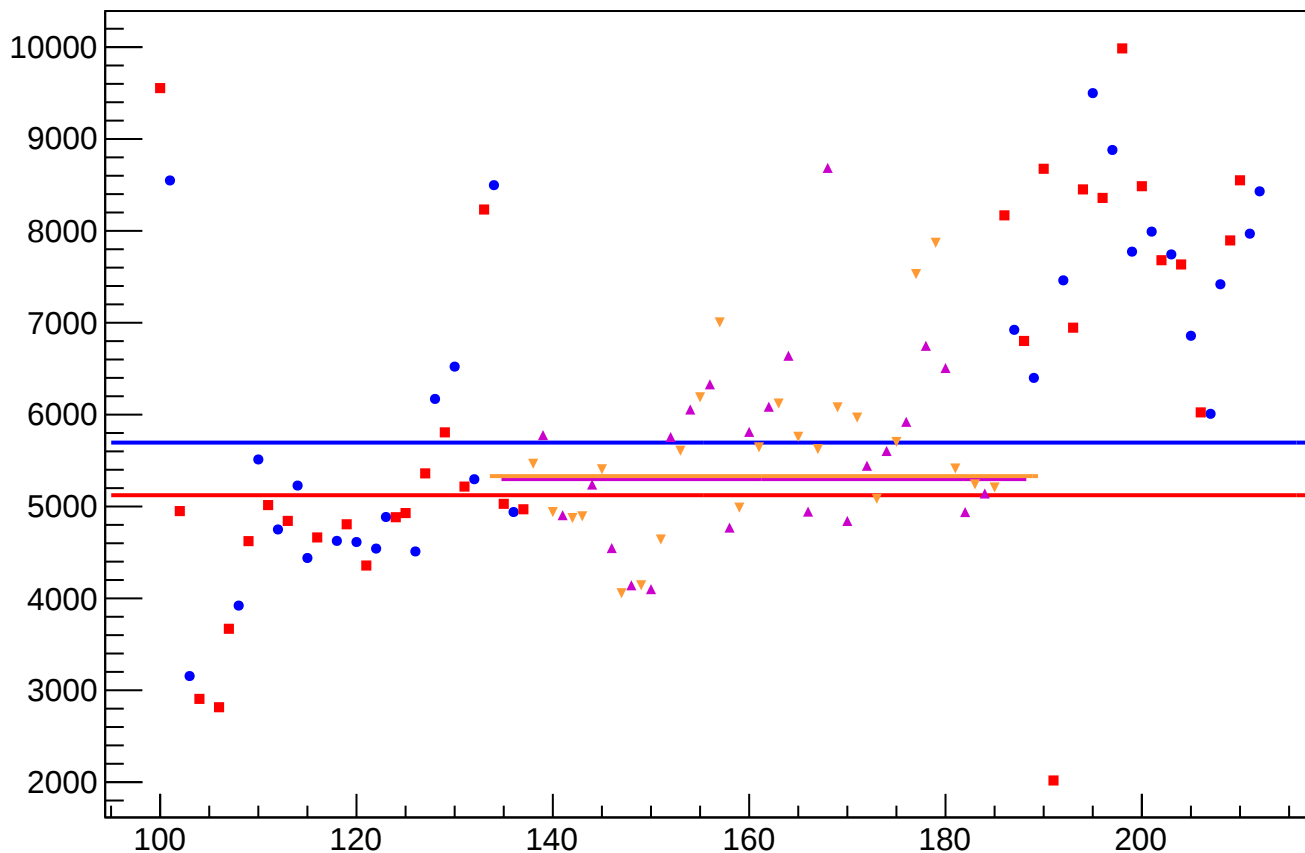
Right: 3524.688+/-1013.064 χ^2/NDF : 62.7/62

In: 2661.187+/-977.186 χ^2/NDF : 49.4/52

Out: 2943.787+/-929.368 χ^2/NDF : 57.9/57

All: 2809.570+/-673.433 χ^2/NDF : 107.4/110

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5695.609 $\pm$ 1.060

χ^2/NDF : 2702925.9/29

Left: 5314.867 $\pm$ 0.637

χ^2/NDF : 1824728.8/47

Left Out: 5330.725 $\pm$ 0.892

χ^2/NDF : 868061.7/24

Right: 5383.297 $\pm$ 0.715

χ^2/NDF : 7149082.6/62

Right Out: 5122.870 $\pm$ 0.968

χ^2/NDF : 4287019.2/32

In: 5467.081 $\pm$ 0.691

χ^2/NDF : 3739719.9/52

Out: 5235.276 $\pm$ 0.656

χ^2/NDF : 5180008.6/57

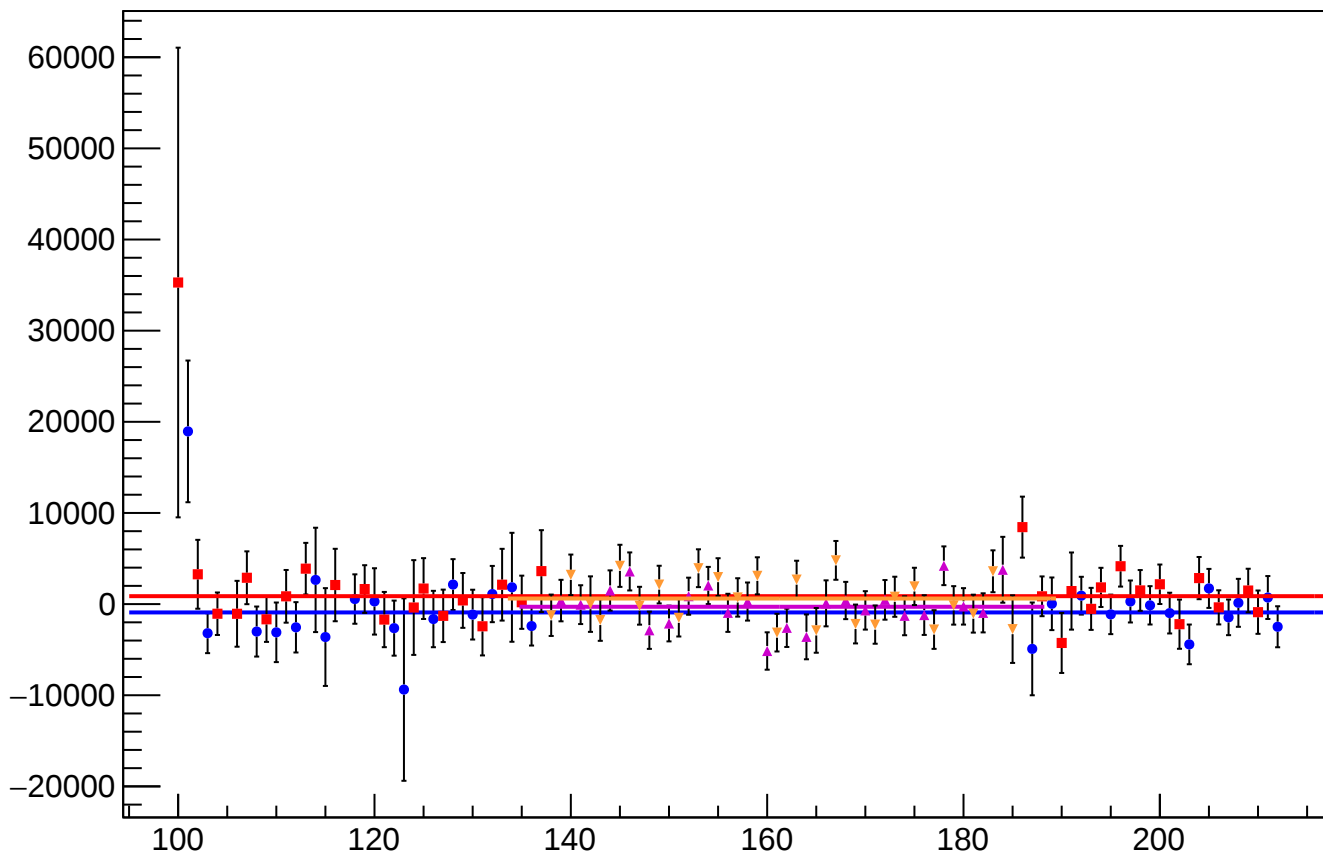
Left In: 5298.329 $\pm$ 0.911

χ^2/NDF : 956021.6/22

All: 5345.173 $\pm$ 0.476

χ^2/NDF : 8978915.8/11

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -914.493 ± 492.072 χ^2/NDF : 20.7/29

Left Out: 612.314 ± 438.264 χ^2/NDF : 32.7/24

Right Out: 869.823 ± 482.748 χ^2/NDF : 22.9/32

Left In: -293.009 ± 449.575 χ^2/NDF : 23.6/22

Left: 171.185 ± 313.822 χ^2/NDF : 58.4/47

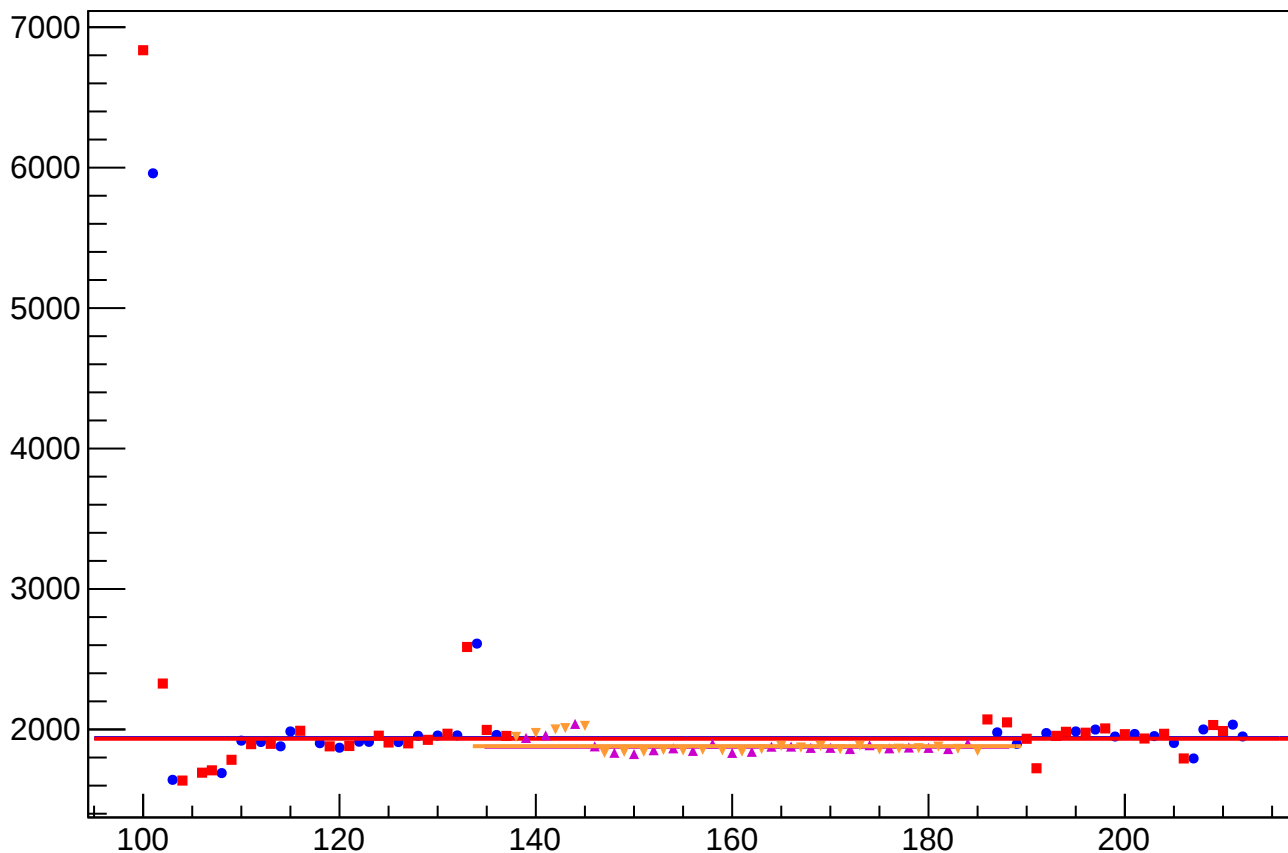
Right: -5.271 ± 344.604 χ^2/NDF : 50.3/62

In: -575.760 ± 331.907 χ^2/NDF : 45.2/52

Out: 728.660 ± 324.489 χ^2/NDF : 55.7/57

All: 91.188 ± 232.026 χ^2/NDF : 108.8/110

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1938.659 $\pm$ 0.348 χ^2 /NDF: 636297.4/29

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF: 28655.5/24

Right Out: 1933.891 $\pm$ 0.341 χ^2 /NDF: 249888.4/32

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

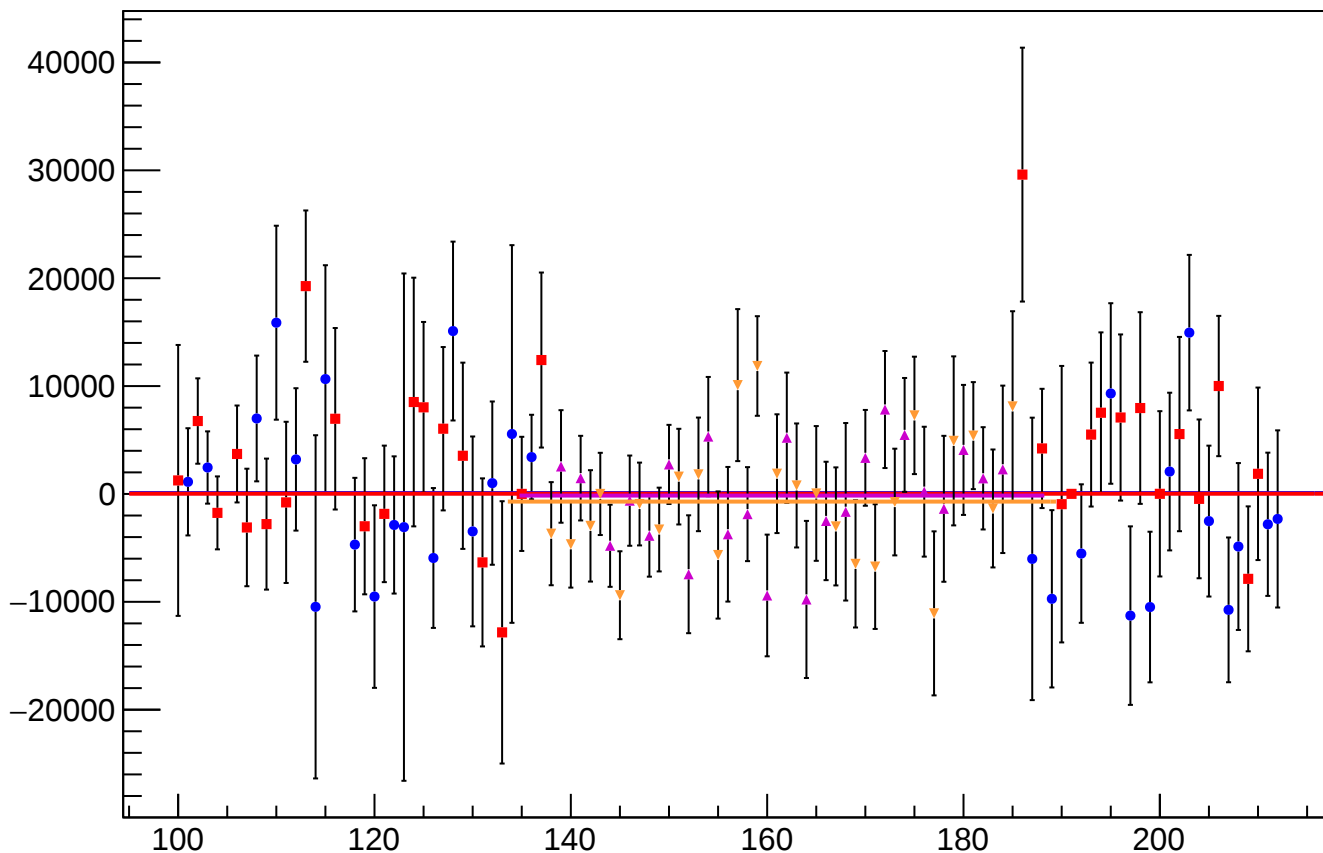
Right: 1936.227 $\pm$ 0.244 χ^2 /NDF: 886281.7/62

In: 1904.881 $\pm$ 0.235 χ^2 /NDF: 674088.4/52

Out: 1904.818 $\pm$ 0.229 χ^2 /NDF: 291814.6/57

All: 1904.849 $\pm$ 0.164 χ^2 /NDF: 965903.1/110

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 79.719 $\pm$ 1249.921 χ^2 /NDF: 29.5/29

Left Out: -707.785 $\pm$ 1017.719 χ^2 /NDF:27.1/24

Right Out: 23.498 $\pm$ 85.785 χ^2 /NDF: 33.9/32

Left In: -150.495 $\pm$ 1053.655 χ^2 /NDF:16.9/22

Left: -438.806 $\pm$ 732.011 χ^2 /NDF: 44.2/47

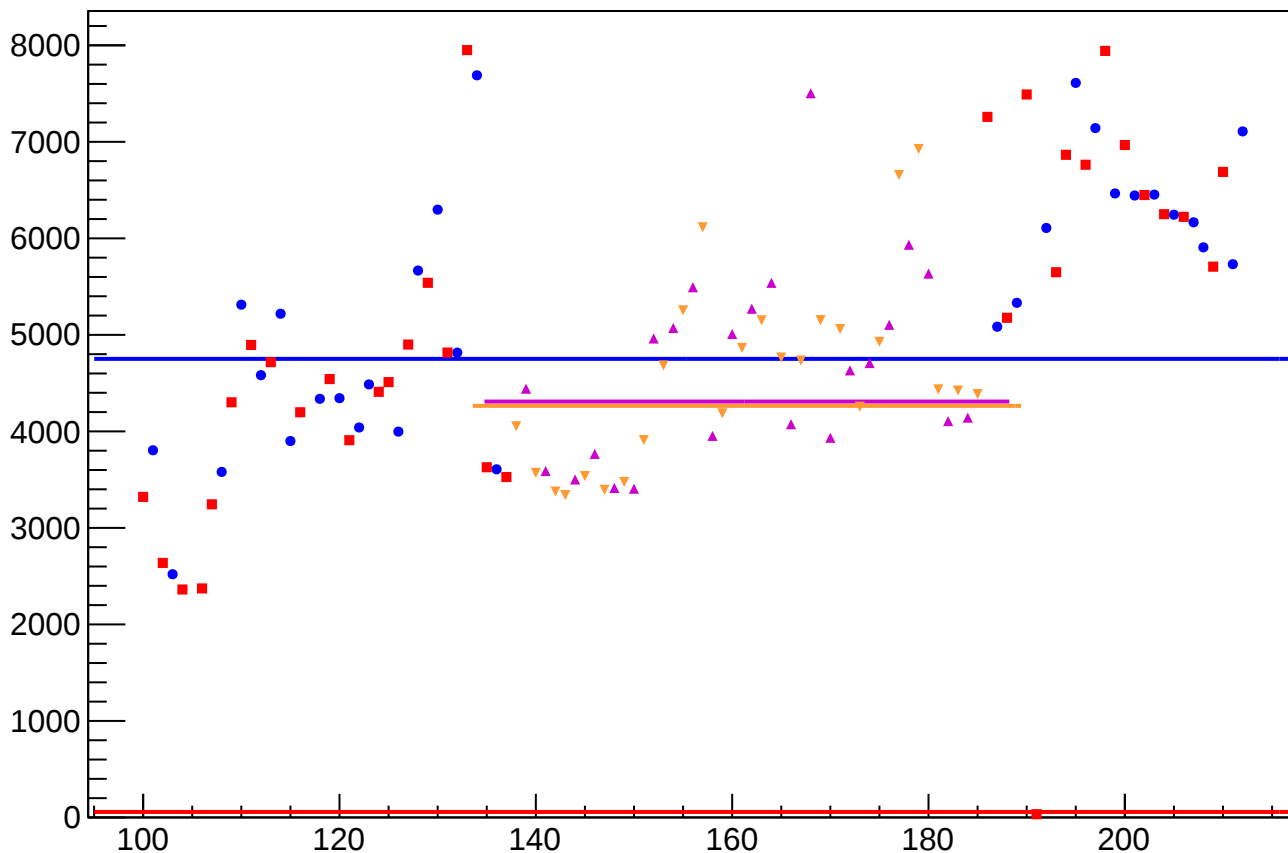
Right: 23.762 $\pm$ 85.583 χ^2 /NDF: 63.4/62

In: -54.861 $\pm$ 805.606 χ^2 /NDF:46.4/52

Out: 18.339 $\pm$ 85.481 χ^2 /NDF:61.5/57

All: 17.524 $\pm$ 85.004 χ^2 /NDF: 107.9/110

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4751.359+/-0.884 χ^2/NDF : 2716797.0/29

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 57.090+/-0.061 χ^2/NDF : 31567202.2/32

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

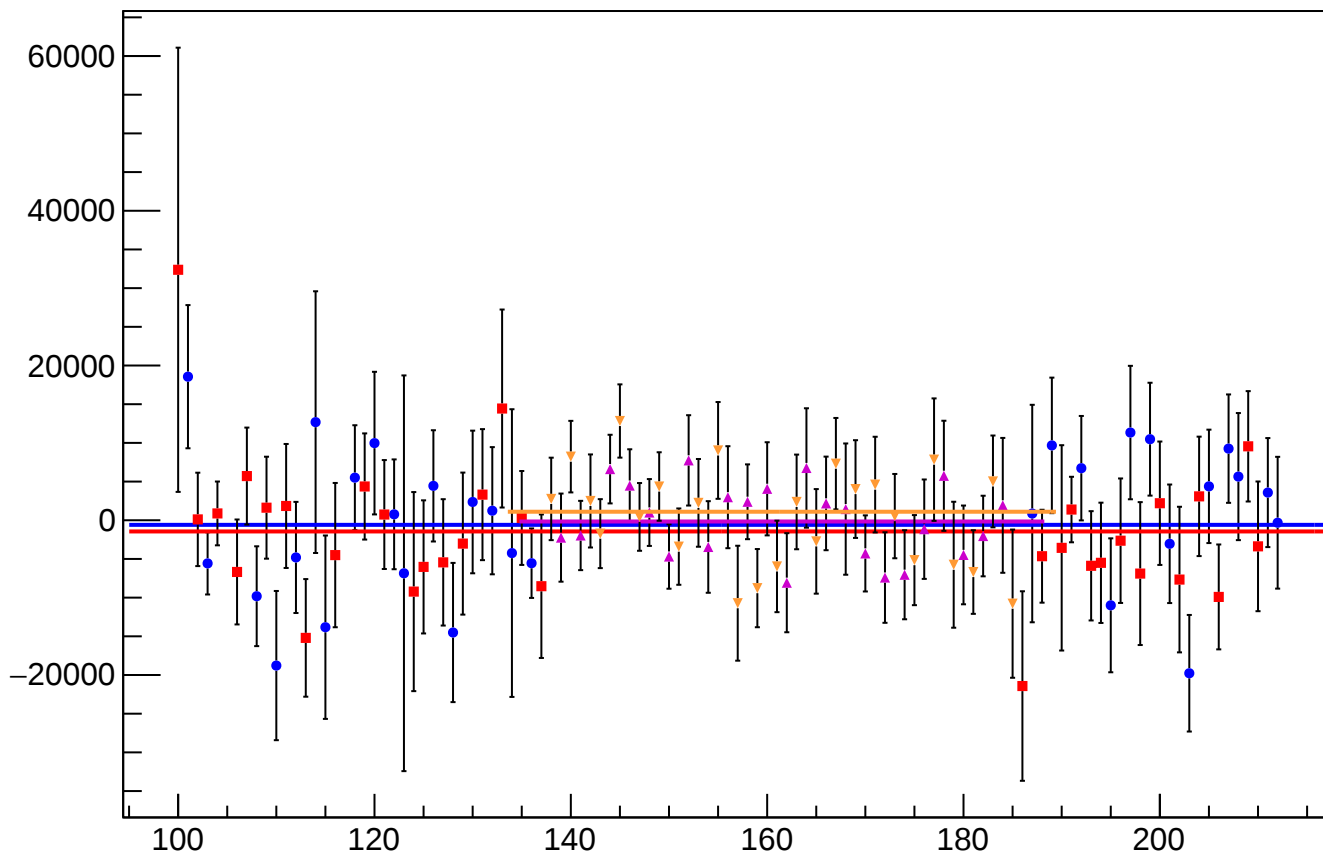
Right: 79.098+/-0.061 χ^2/NDF : 62361617.1/62

In: 4492.782+/-0.570 χ^2/NDF : 4168349.2/52

Out: 86.772+/-0.060 χ^2/NDF : 66862385.0/57

All: 135.827+/-0.060 χ^2/NDF : 130188656.0/3

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -593.013+/-1397.334 χ^2/NDF : 38.3/29

Left Out: 1102.204+/-1126.663 χ^2/NDF : 28.6/24

Right Out: -1446.576+/-1282.559 χ^2/NDF : 21.1/32

Left In: -158.683+/-1161.507 χ^2/NDF : 15.5/22

Left: 490.957+/-808.709 χ^2/NDF : 44.7/47

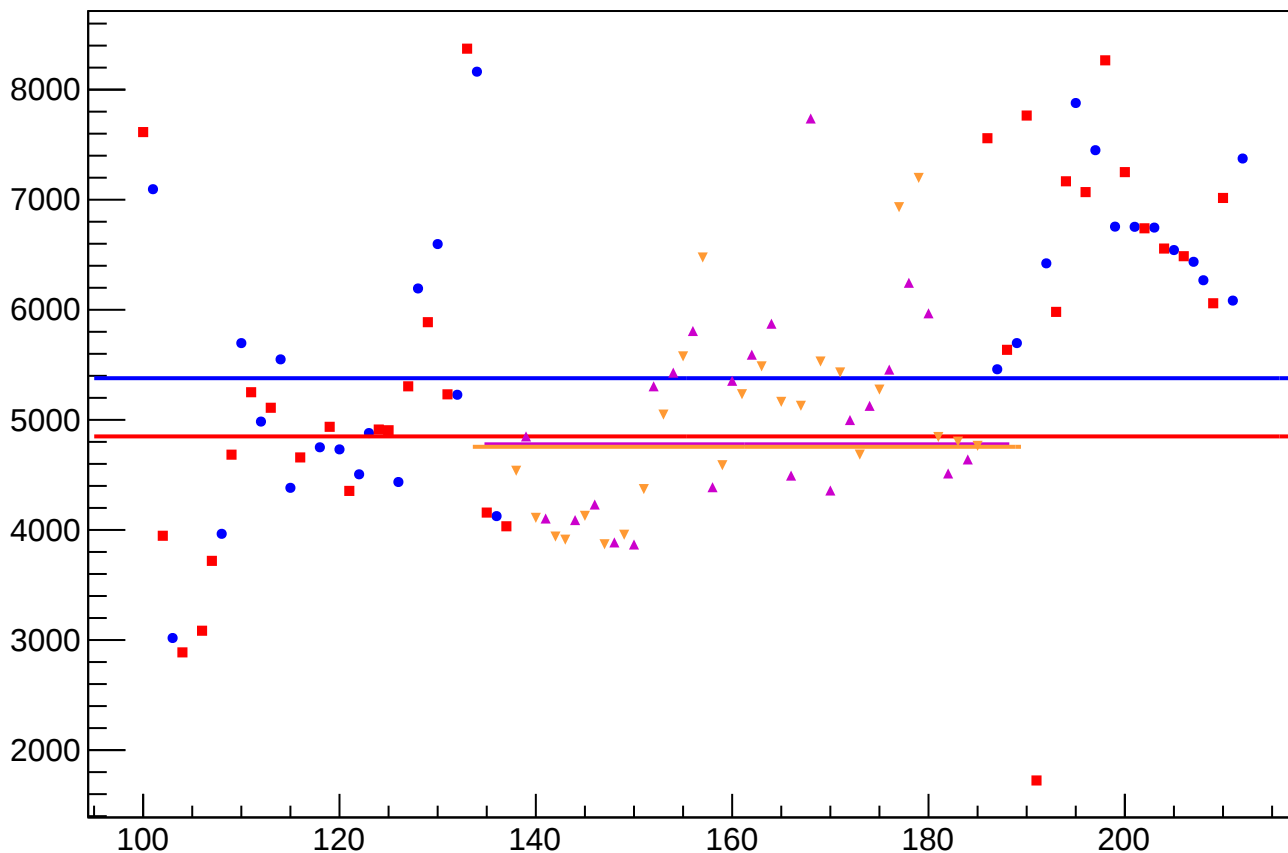
Right: -1056.284+/-944.881 χ^2/NDF : 59.7/62

In: -336.157+/-893.217 χ^2/NDF : 53.9/52

Out: -7.947+/-846.452 χ^2/NDF : 51.9/57

All: -163.235+/-614.400 χ^2/NDF : 105.9/110

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5378.570+/-0.988 χ^2/NDF : 2005847.0/29

Left Out: 4755.383+/-0.797 χ^2/NDF : 953328.0/24

Right Out: 4849.707+/-0.904 χ^2/NDF : 3631363.8/32

Left In: 4777.831+/-0.821 χ^2/NDF : 950291.2/22

Left: 4766.265+/-0.572 χ^2/NDF : 1904004.1/47

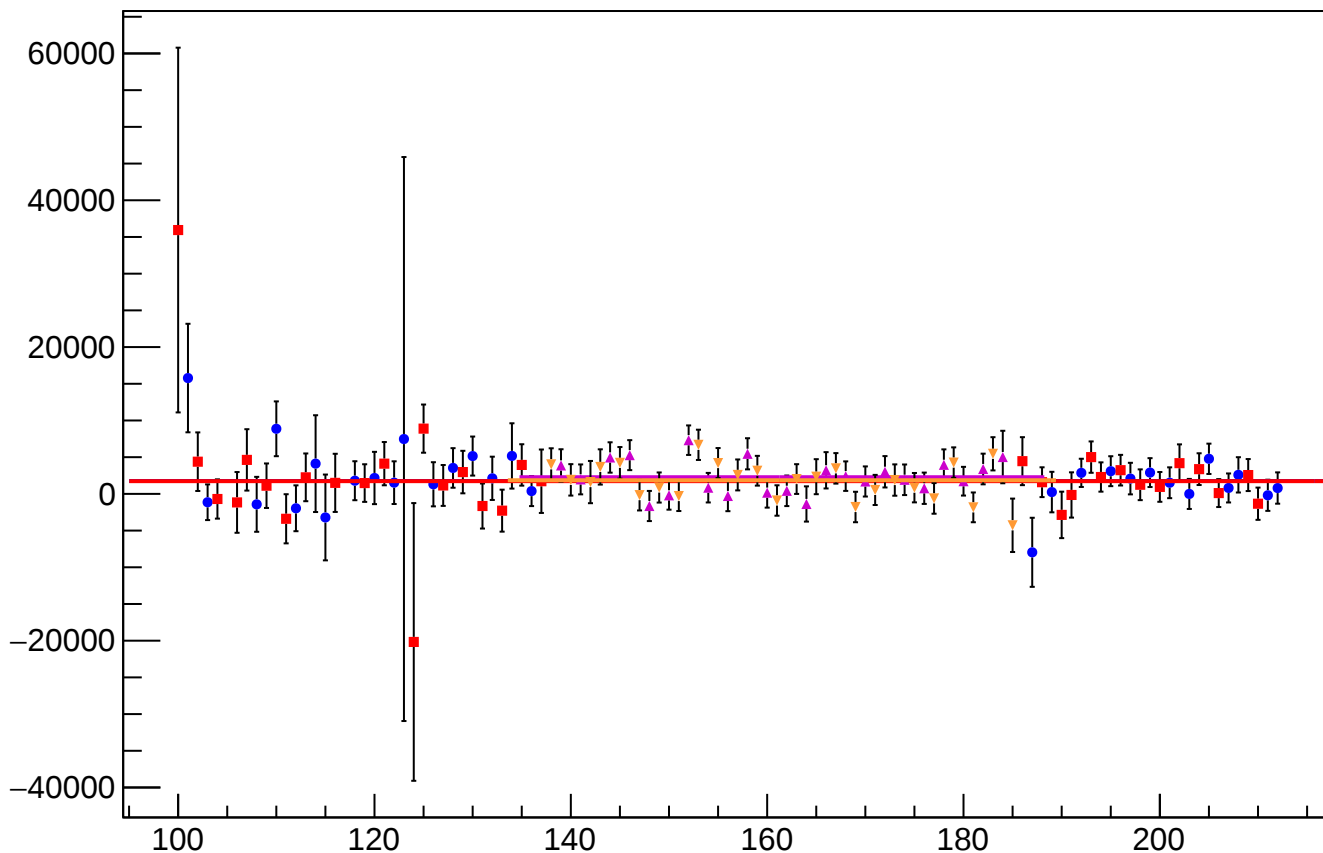
Right: 5090.687+/-0.667 χ^2/NDF : 5793161.8/62

In: 5023.302+/-0.632 χ^2/NDF : 3174749.1/52

Out: 4796.616+/-0.598 χ^2/NDF : 4590819.5/57

All: 4903.711+/-0.434 χ^2/NDF : 7833526.0/11

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1754.936+/-479.302 χ^2/NDF : 24.8/29

Left Out: 1856.570+/-430.977 χ^2/NDF :30.0/24

Right Out: 1734.041+/-473.105 χ^2/NDF : 28.0/32

Left In: 2268.464+/-441.710 χ^2/NDF :26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

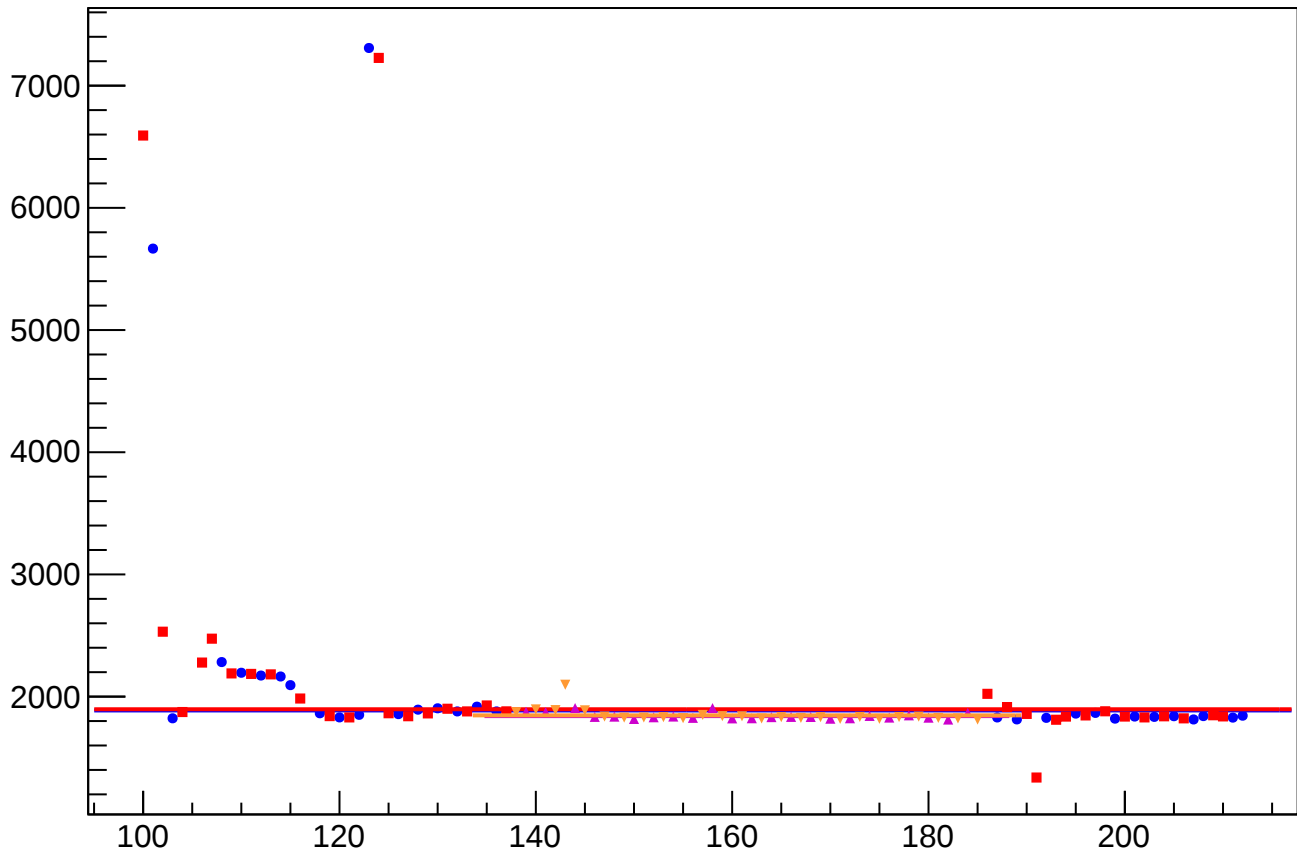
Right: 1744.353+/-336.705 χ^2/NDF : 52.8/62

In: 2032.625+/-324.814 χ^2/NDF :52.3/52

Out: 1801.003+/-318.601 χ^2/NDF :58.0/57

All: 1914.578+/-227.450 χ^2/NDF : 110.6/110

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1886.840+/-0.339 χ^2/NDF : 640260.9/29

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1896.503+/-0.335 χ^2/NDF : 475403.2/32

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

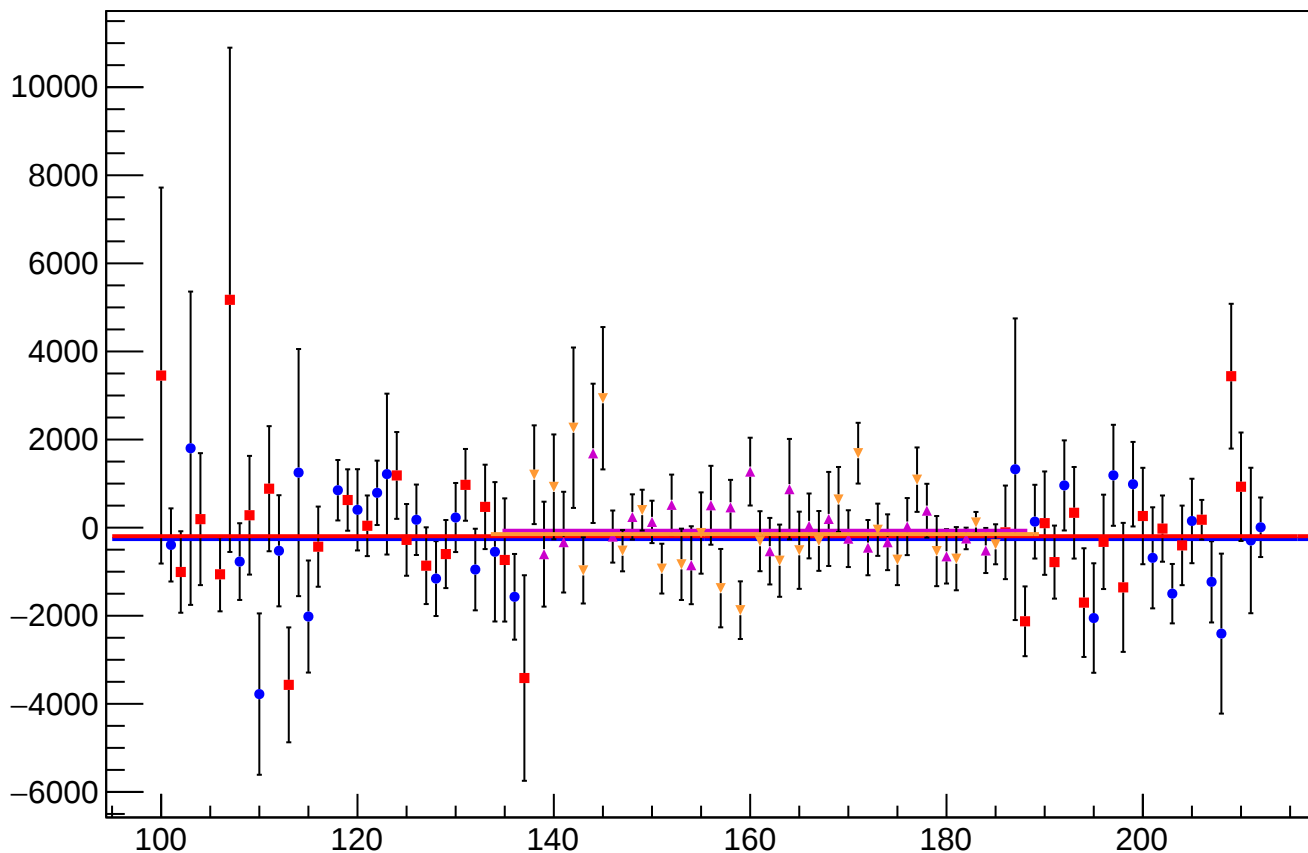
Right: 1891.735+/-0.238 χ^2/NDF : 1116075.8/62

In: 1861.804+/-0.230 χ^2/NDF : 657092.3/52

Out: 1869.232+/-0.225 χ^2/NDF : 514865.8/57

All: 1865.590+/-0.161 χ^2/NDF : 1172491.2/111

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -259.356 ± 181.882 χ^2/NDF : 30.3/29

Left Out: -146.999 ± 121.984 χ^2/NDF : 37.7/24

Right Out: -194.381 ± 165.938 χ^2/NDF : 35.5/32

Left In: -70.340 ± 126.373 χ^2/NDF : 12.3/22

Left: -110.024 ± 87.766 χ^2/NDF : 50.1/47

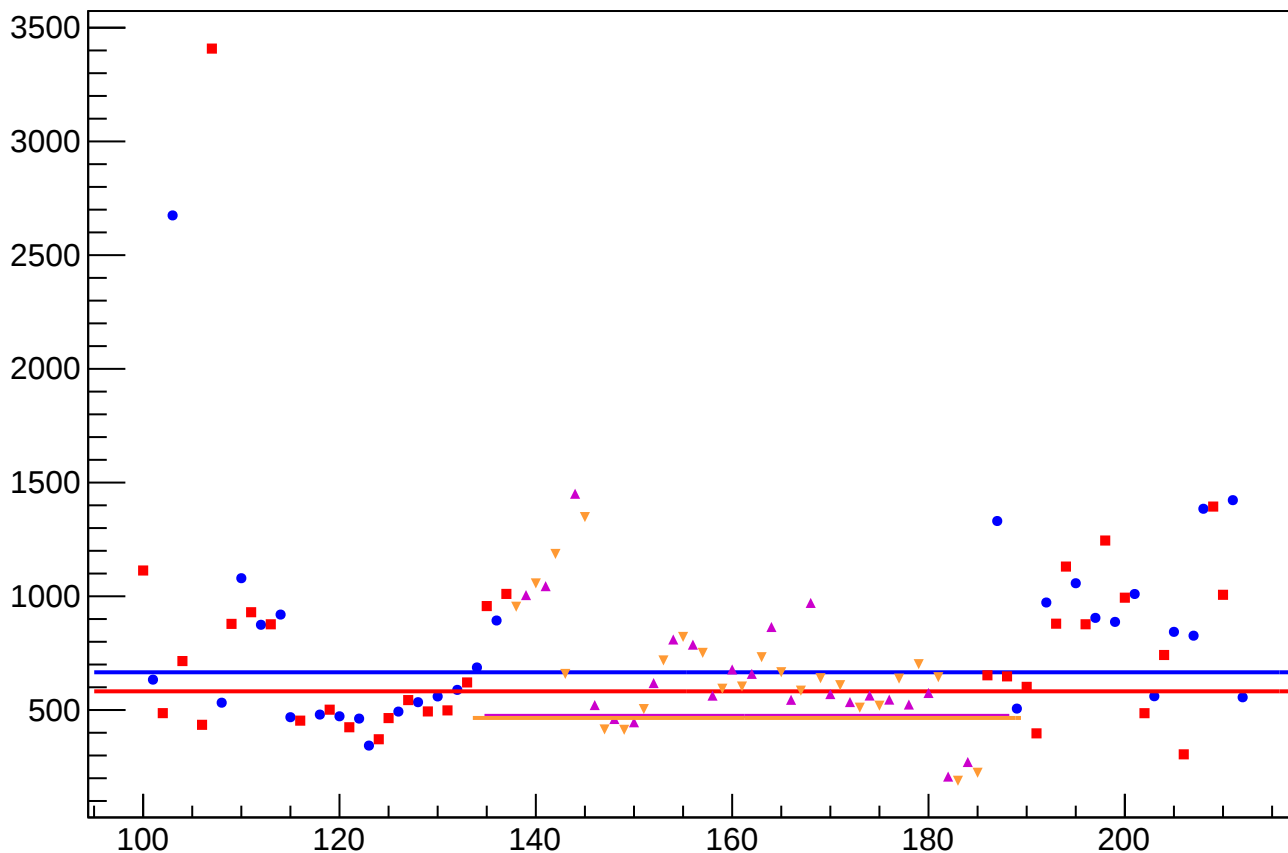
Right: -223.896 ± 122.586 χ^2/NDF : 65.9/62

In: -131.880 ± 103.781 χ^2/NDF : 43.3/52

Out: -163.621 ± 98.285 χ^2/NDF : 73.2/57

All: -148.614 ± 71.362 χ^2/NDF : 116.6/110

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 665.864+/-0.129 χ^2/NDF : 3529023.0/29

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 582.132+/-0.117 χ^2/NDF : 4611831.9/32

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

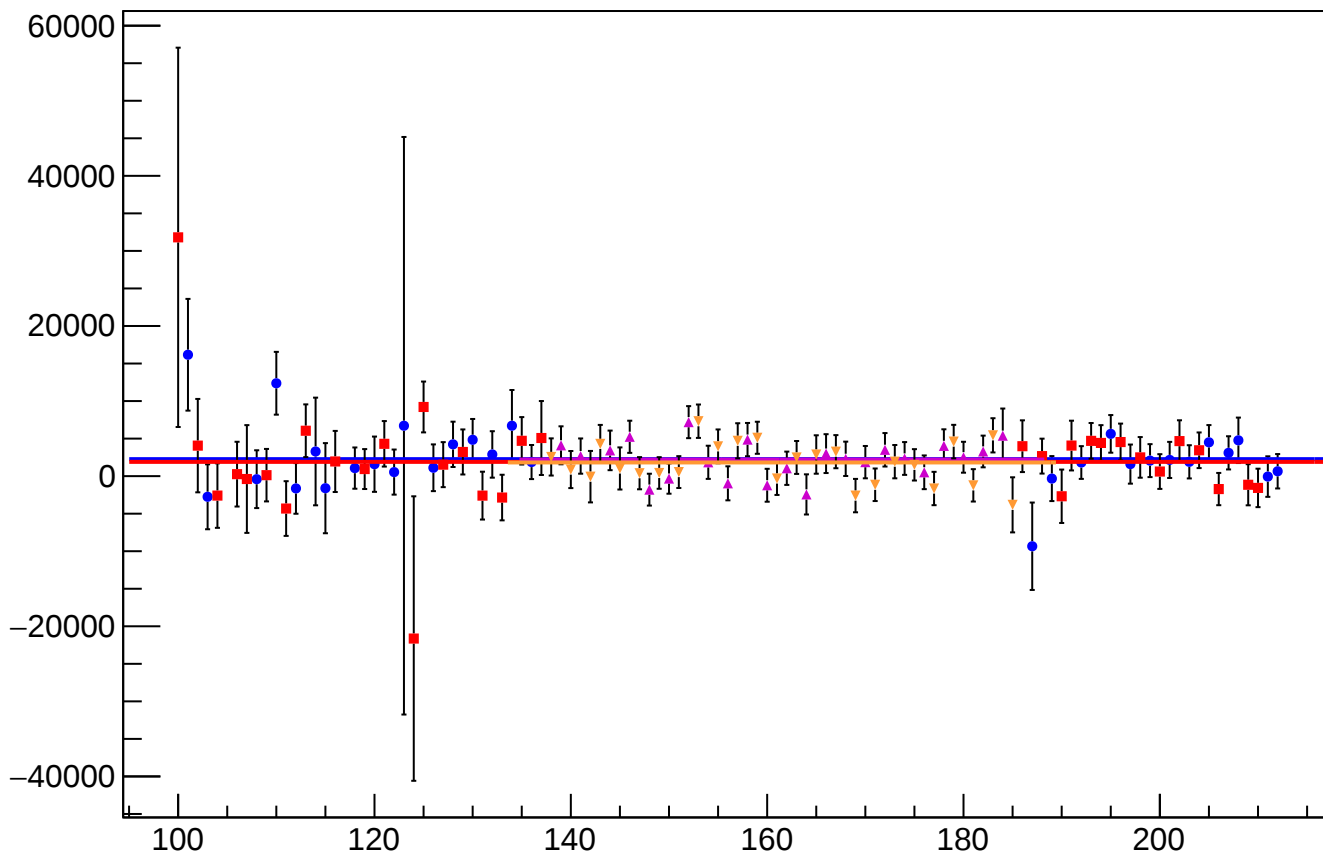
Right: 620.168+/-0.087 χ^2/NDF : 8372180.7/62

In: 536.644+/-0.073 χ^2/NDF : 11198969.0/52

Out: 506.144+/-0.069 χ^2/NDF : 12344010.9/57

All: 520.565+/-0.050 χ^2/NDF : 23634046.1/111

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2263.509 $\pm$ 541.677 χ^2 /NDF: 25.5/29

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 1900.515 $\pm$ 537.778 χ^2 /NDF: 34.2/32

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

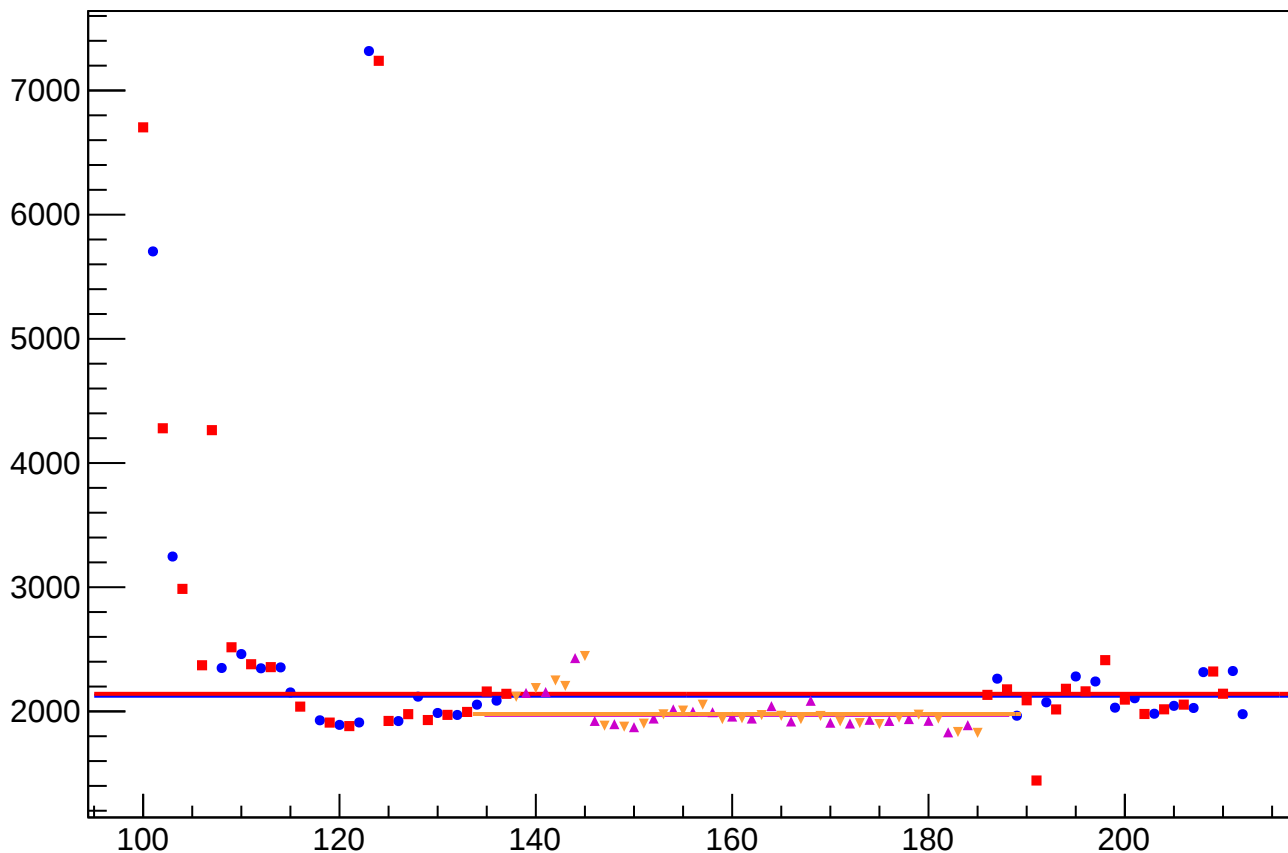
Right: 2080.701 $\pm$ 381.637 χ^2 /NDF: 59.9/62

In: 2232.140 $\pm$ 356.732 χ^2 /NDF:50.9/52

Out: 1856.585 $\pm$ 350.741 χ^2 /NDF:66.3/57

All: 2041.183 $\pm$ 250.103 χ^2 /NDF: 117.7/110

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2126.235 $\pm$ 0.383 χ^2 /NDF: 777757.3/29

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF: 139299.8/24

Right Out: 2141.559 $\pm$ 0.380 χ^2 /NDF: 950510.3/32

Left In: 1972.166 $\pm$ 0.335 χ^2 /NDF: 116452.5/22

Left: 1975.665 $\pm$ 0.234 χ^2 /NDF: 255965.0/47

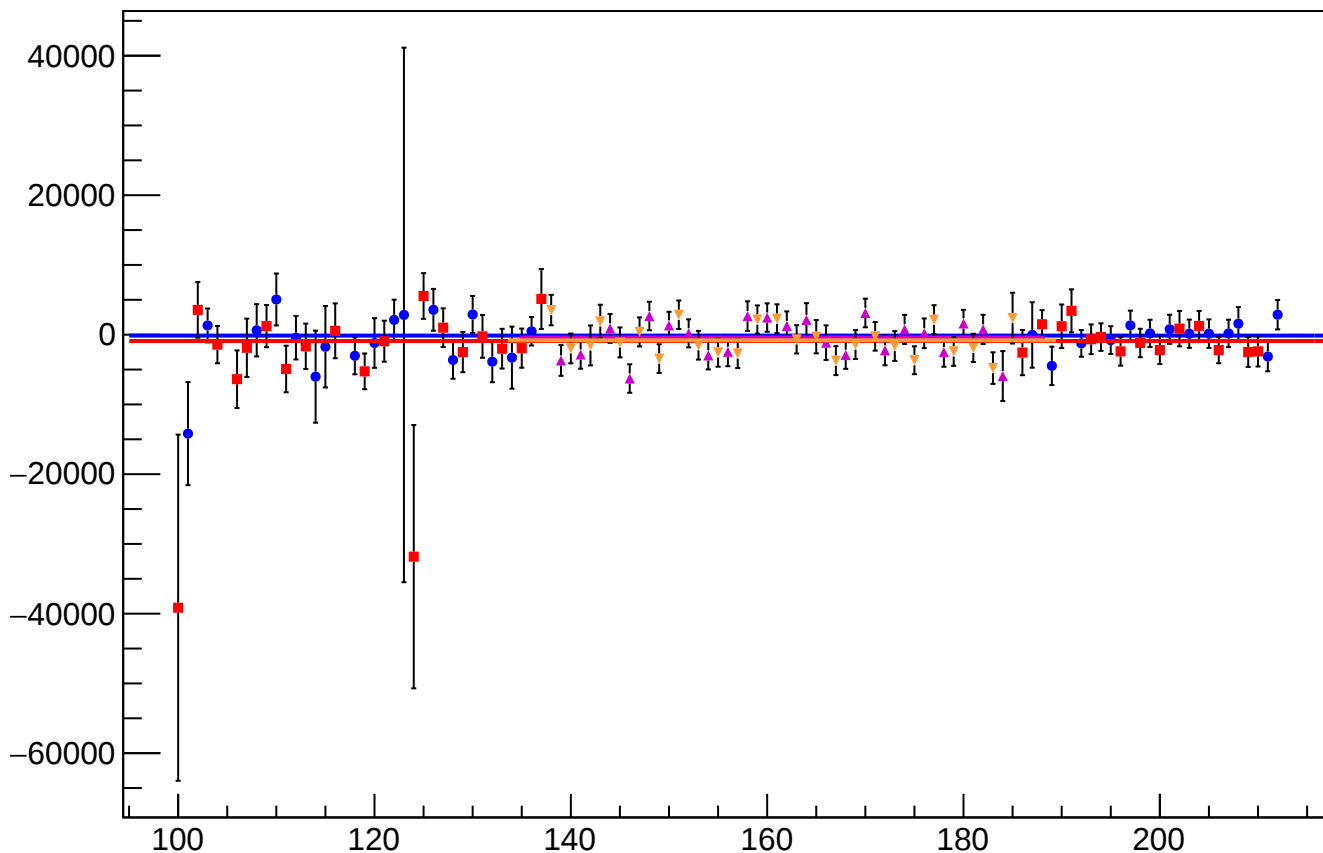
Right: 2133.953 $\pm$ 0.270 χ^2 /NDF: 1729073.8/62

In: 2038.988 $\pm$ 0.252 χ^2 /NDF: 985835.0/52

Out: 2048.147 $\pm$ 0.248 χ^2 /NDF: 1194824.8/57

All: 2043.645 $\pm$ 0.177 χ^2 /NDF: 2181330.1/111

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -130.888+/-475.988 χ^2/NDF : 23.7/29

Left Out: -808.436+/-430.304 χ^2/NDF :27.9/24

Right Out: -908.743+/-469.583 χ^2/NDF : 28.3/32

Left In: -398.797+/-441.246 χ^2/NDF :34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

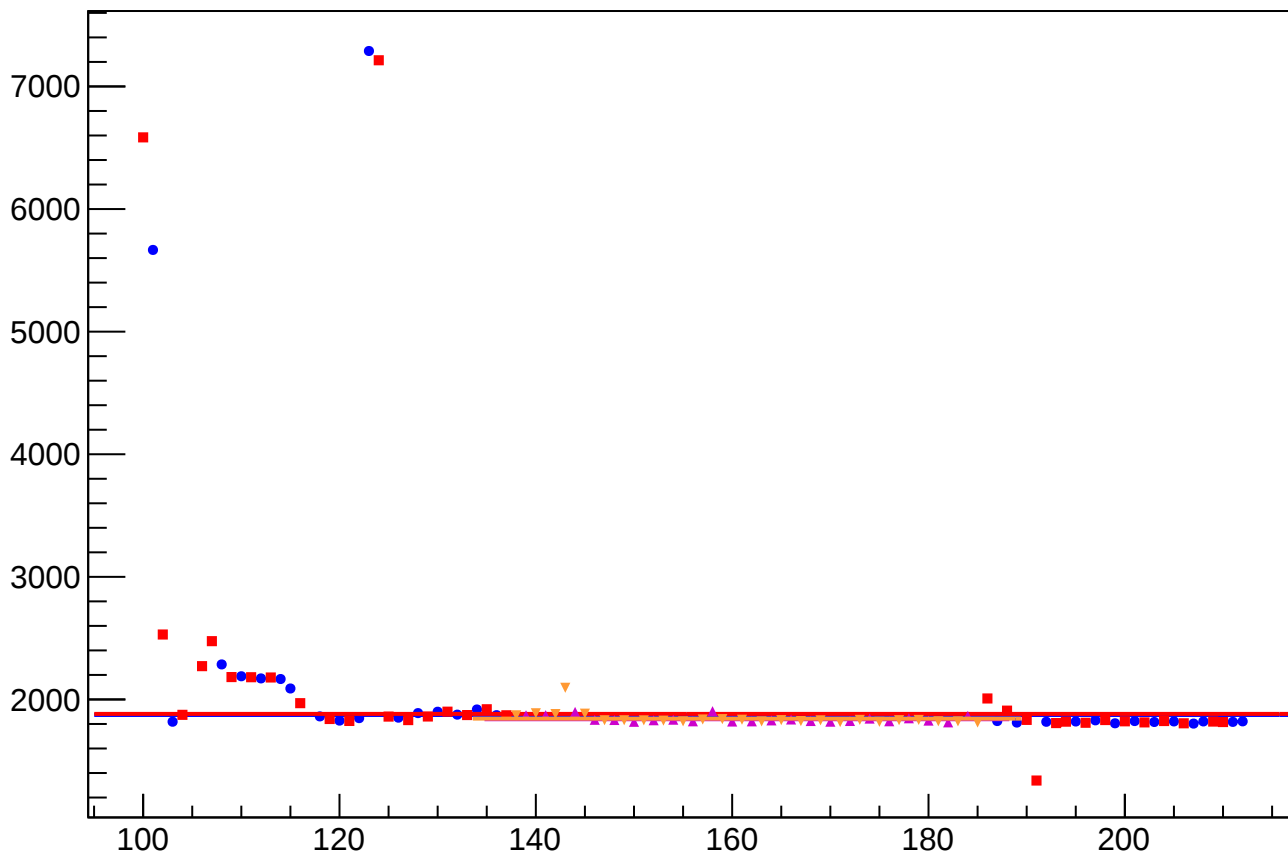
Right: -525.084+/-334.287 χ^2/NDF : 53.3/62

In: -274.976+/-323.594 χ^2/NDF :58.3/52

Out: -854.219+/-317.250 χ^2/NDF :56.2/57

All: -570.331+/-226.539 χ^2/NDF : 116.1/110

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1873.520+/-0.337 χ^2/NDF : 650153.0/29

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1882.170+/-0.332 χ^2/NDF : 484045.7/32

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

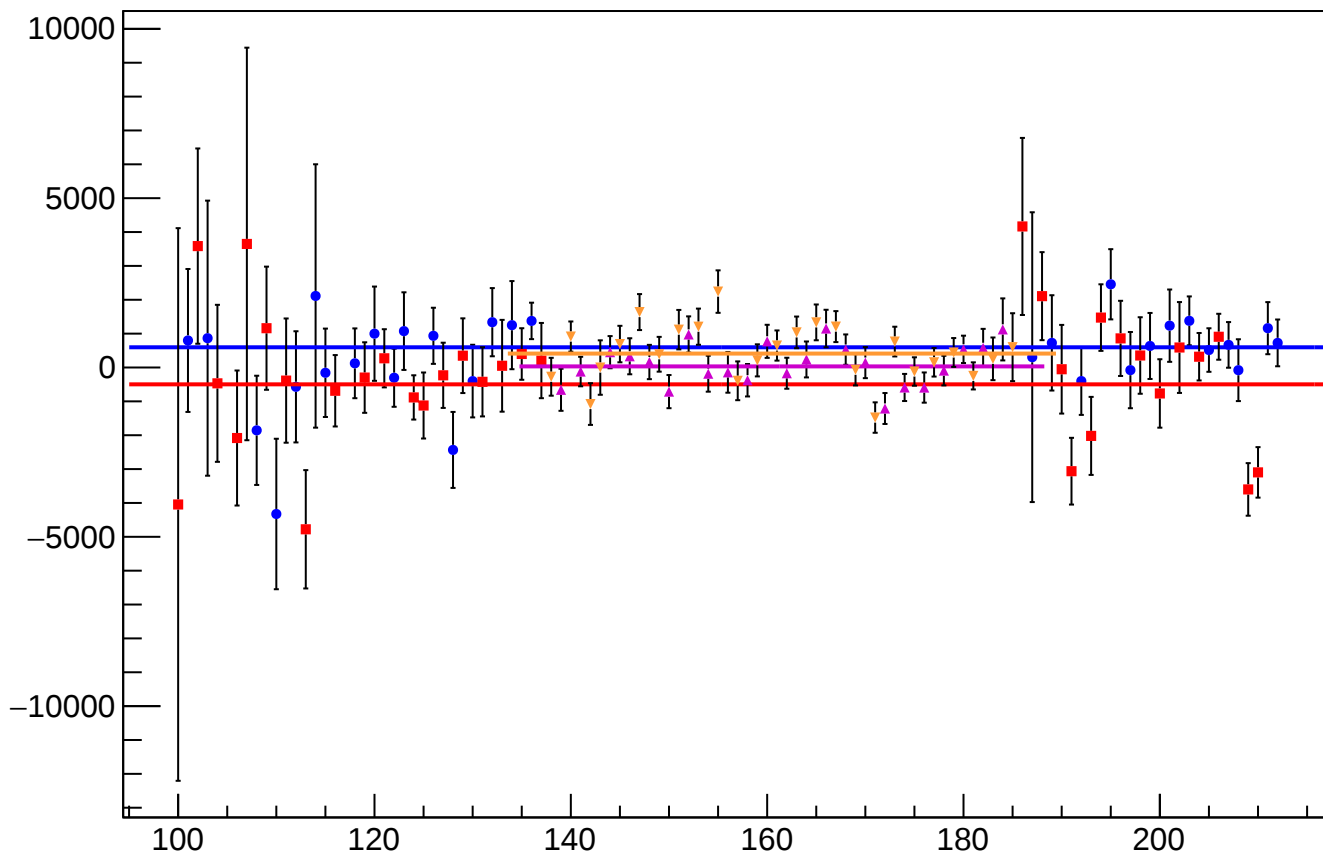
Right: 1877.904+/-0.236 χ^2/NDF : 1134533.4/62

In: 1854.745+/-0.229 χ^2/NDF : 662273.7/52

Out: 1861.285+/-0.224 χ^2/NDF : 518191.7/57

All: 1858.080+/-0.160 χ^2/NDF : 1180881.9/111

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 596.796 $\pm$ 181.482 χ^2 /NDF: 28.3/29

Left Out: 411.072 $\pm$ 100.456 χ^2 /NDF:61.2/24

Right Out: -497.481 $\pm$ 185.767 χ^2 /NDF: 70.8/32

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

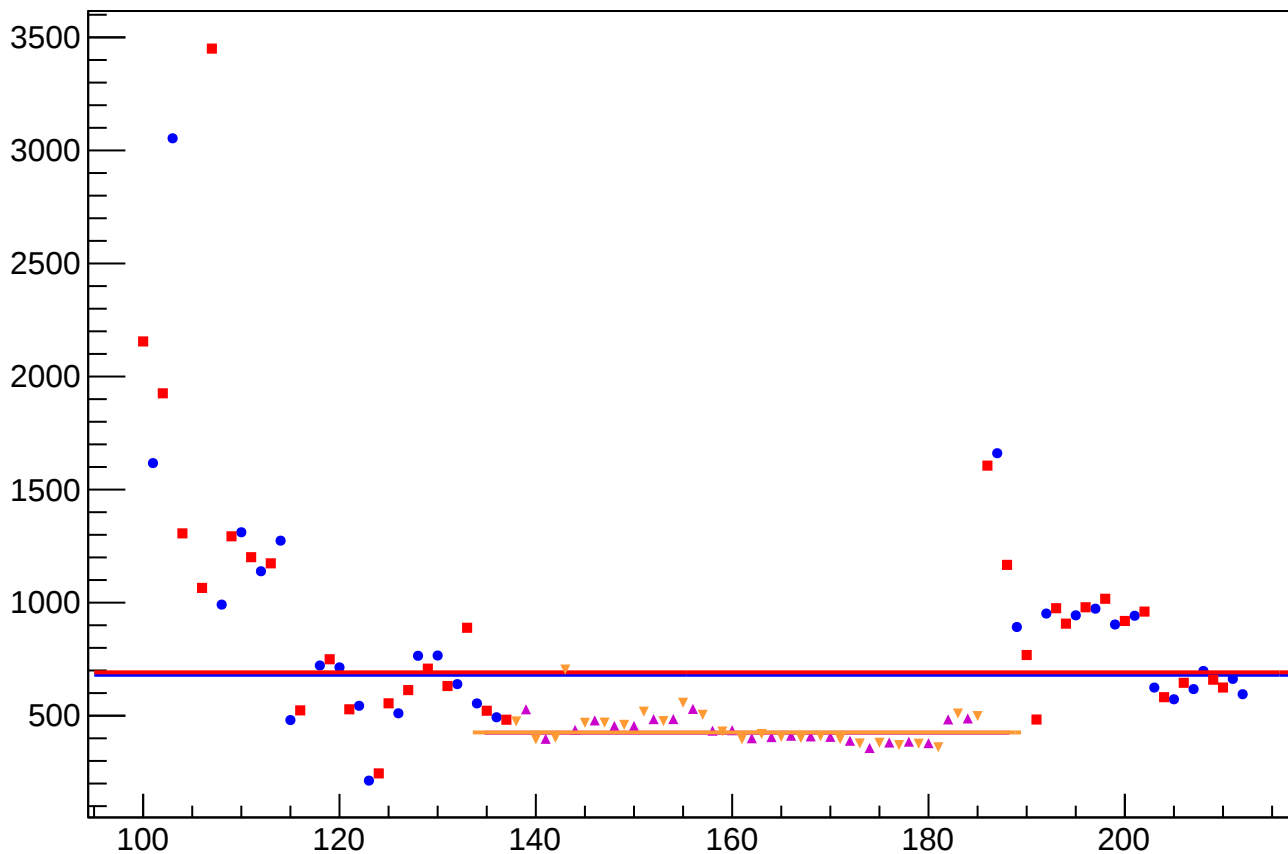
Right: 62.424 $\pm$ 129.816 χ^2 /NDF: 116.9/62

In: 168.744 $\pm$ 89.185 χ^2 /NDF:68.3/52

Out: 205.502 $\pm$ 88.364 χ^2 /NDF:150.5/57

All: 187.293 $\pm$ 62.771 χ^2 /NDF: 219.0/110

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 681.075 $\pm$ 0.128 χ^2 /NDF: 3226919.4/29

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 691.786 $\pm$ 0.131 χ^2 /NDF: 4342970.0/32

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

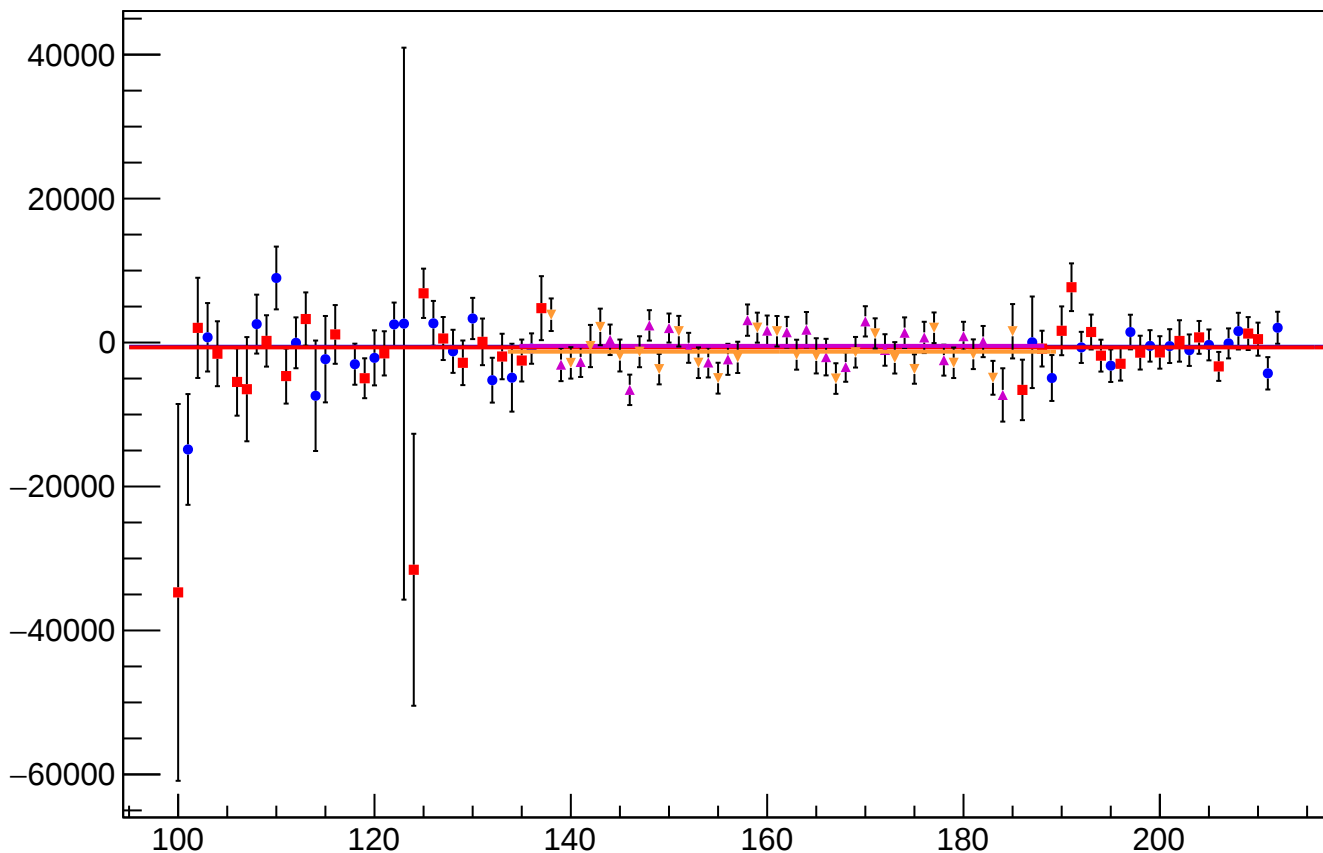
Right: 686.306 $\pm$ 0.092 χ^2 /NDF: 7573291.6/62

In: 486.568 $\pm$ 0.063 χ^2 /NDF: 6647382.3/52

Out: 486.158 $\pm$ 0.062 χ^2 /NDF: 8243148.9/57

All: 486.361 $\pm$ 0.044 χ^2 /NDF: 14890552.5/111

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -586.691+/-525.940 χ^2/NDF : 26.7/29

Left Out: -1267.885+/-443.219 χ^2/NDF :30.8/24

Right Out: -670.897+/-527.633 χ^2/NDF : 32.9/32

Left In: -462.599+/-453.947 χ^2/NDF :32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

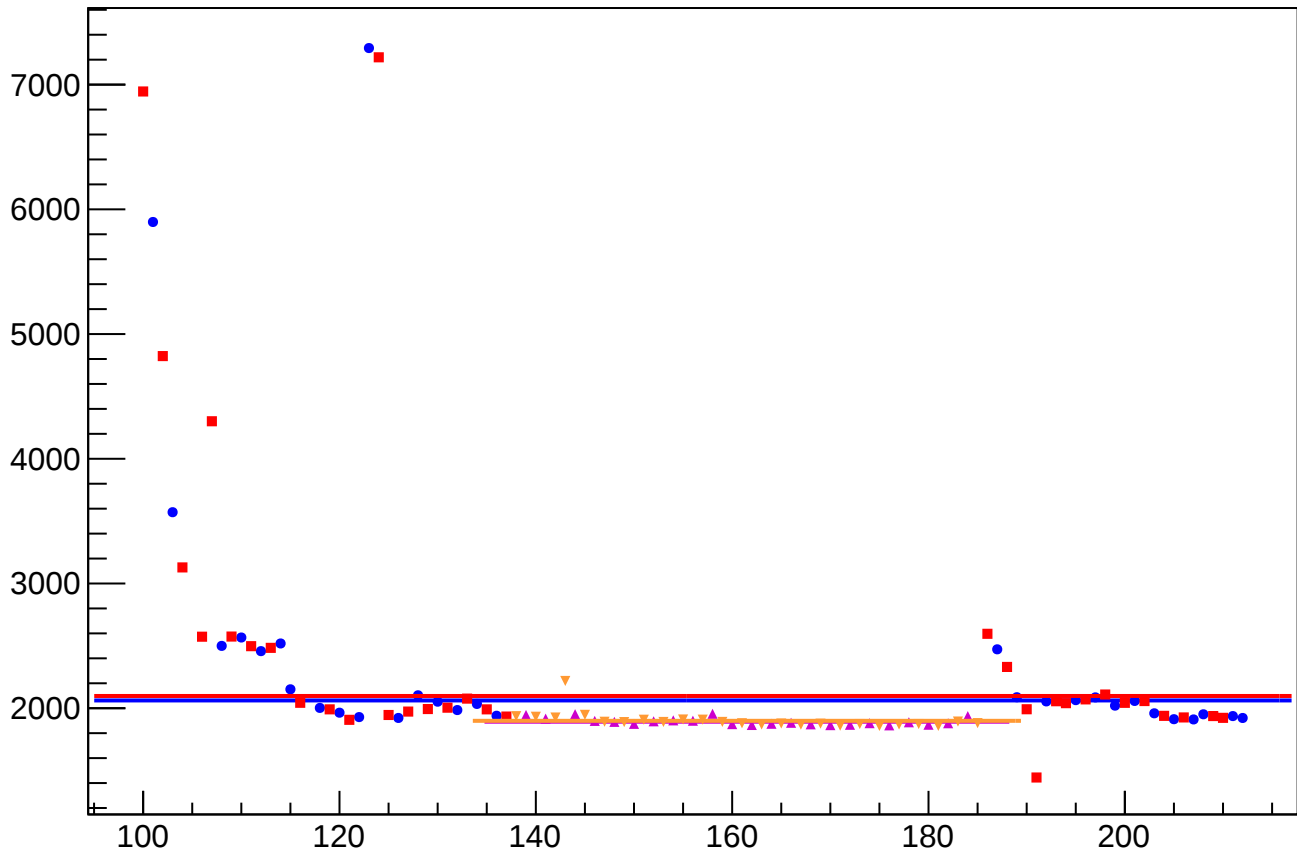
Right: -628.658+/-372.493 χ^2/NDF : 59.6/62

In: -515.577+/-343.646 χ^2/NDF :59.3/52

Out: -1020.909+/-339.372 χ^2/NDF :64.5/57

All: -771.404+/-241.469 χ^2/NDF : 124.9/110

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2062.331+/-0.372 χ^2/NDF : 889103.5/29

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2098.138+/-0.373 χ^2/NDF : 1115097.0/32

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

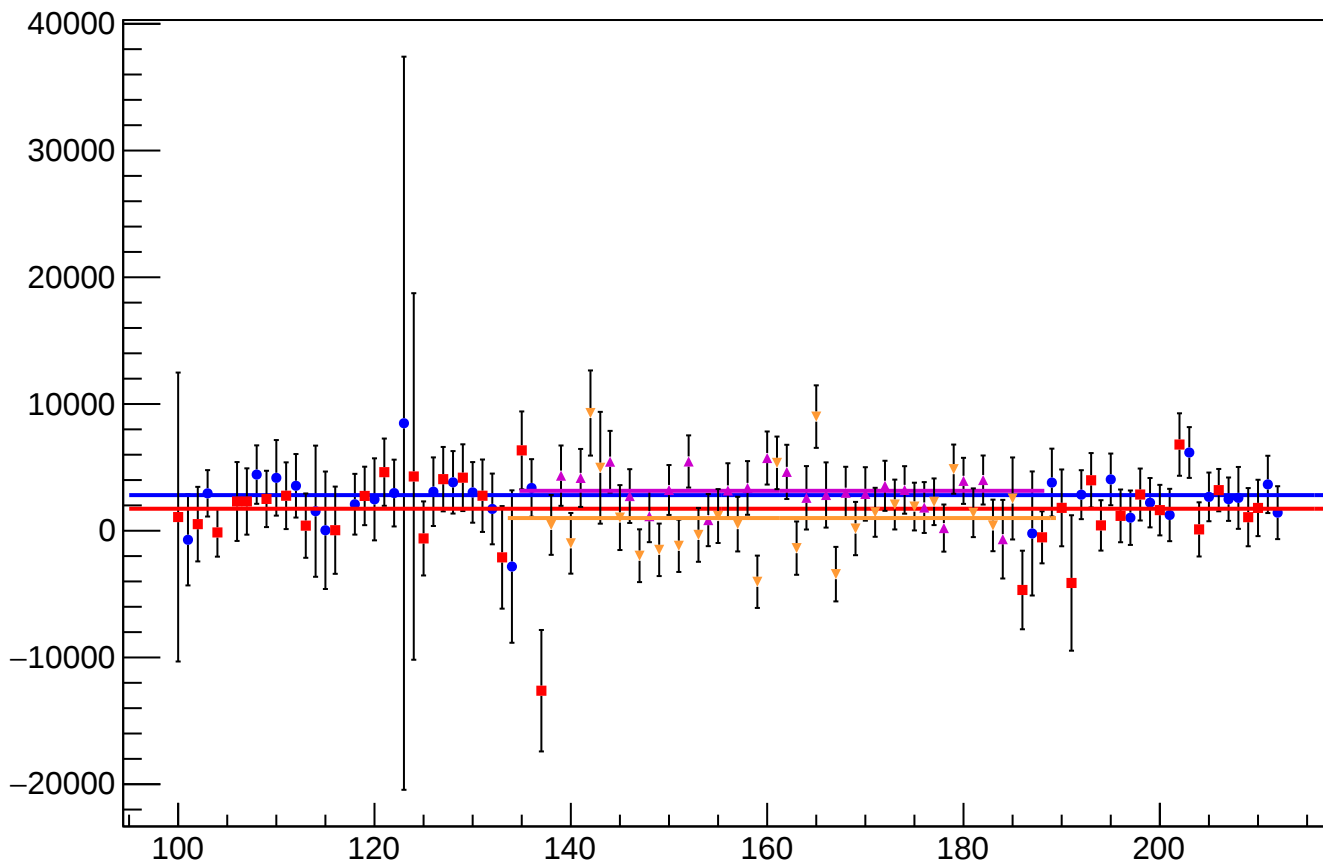
Right: 2080.177+/-0.263 χ^2/NDF : 2008820.6/62

In: 1964.542+/-0.243 χ^2/NDF : 1017172.7/52

Out: 1981.362+/-0.240 χ^2/NDF : 1320870.3/57

All: 1973.057+/-0.171 χ^2/NDF : 2340468.5/11

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2811.659 $\pm$ 446.406 χ^2 /NDF: 9.3/29

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1736.526 $\pm$ 441.676 χ^2 /NDF: 32.3/32

Left In: 3150.437 $\pm$ 441.145 χ^2 /NDF:11.8/22

Left: 2061.387 $\pm$ 309.830 χ^2 /NDF: 68.5/47

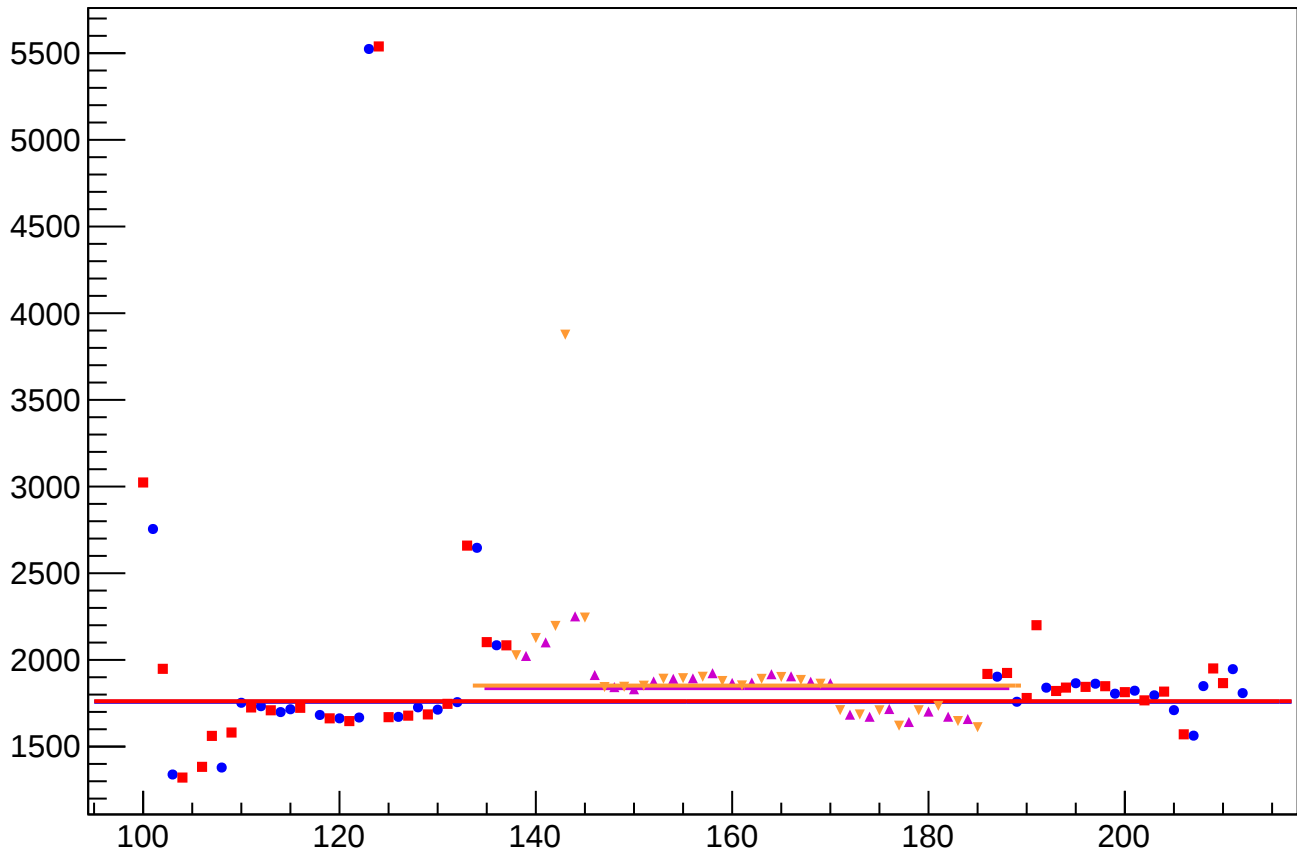
Right: 2268.366 $\pm$ 313.971 χ^2 /NDF: 44.5/62

In: 2983.056 $\pm$ 313.780 χ^2 /NDF:21.4/52

Out: 1363.505 $\pm$ 310.014 χ^2 /NDF:78.3/57

All: 2163.503 $\pm$ 220.532 χ^2 /NDF: 113.2/110

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1758.407 $\pm$ 0.316 χ^2 /NDF: 505360.7/29

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF:648954.2/24

Right Out: 1761.812 $\pm$ 0.312 χ^2 /NDF: 565971.1/32

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

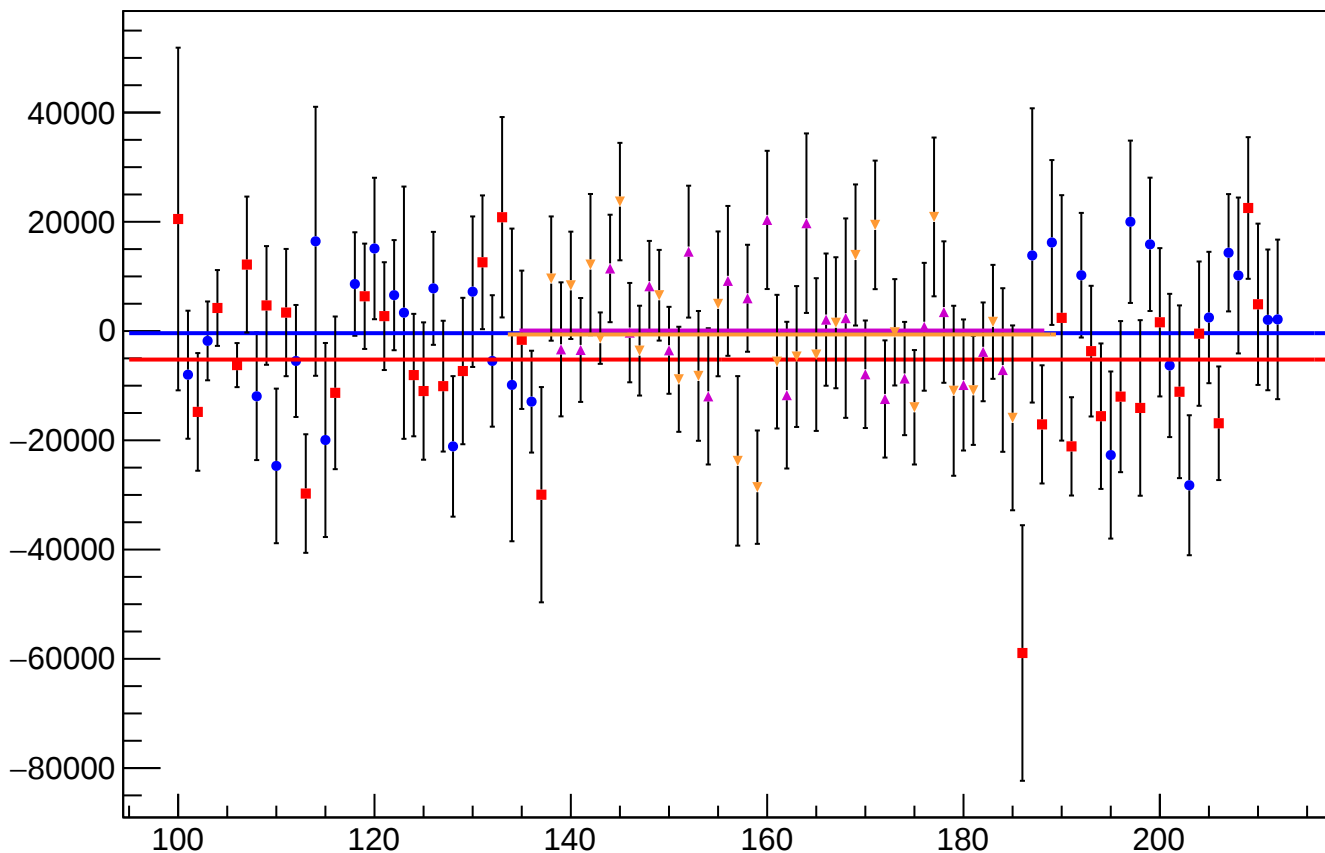
Right: 1760.127 $\pm$ 0.222 χ^2 /NDF: 1071390.6/62

In: 1798.246 $\pm$ 0.222 χ^2 /NDF:737358.5/52

Out: 1807.546 $\pm$ 0.219 χ^2 /NDF:1257194.1/57

All: 1802.952 $\pm$ 0.156 χ^2 /NDF: 1995441.7/11

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -389.428 ± 2268.236 χ^2/NDF : 30.4/29

Left Out: -619.372 ± 2069.686 χ^2/NDF : 30.1/24

Right Out: -5218.539 ± 1905.227 χ^2/NDF : 38.1/32

Left In: 93.334 ± 2293.826 χ^2/NDF : 14.6/22

Left: -299.532 ± 1536.638 χ^2/NDF : 44.8/47

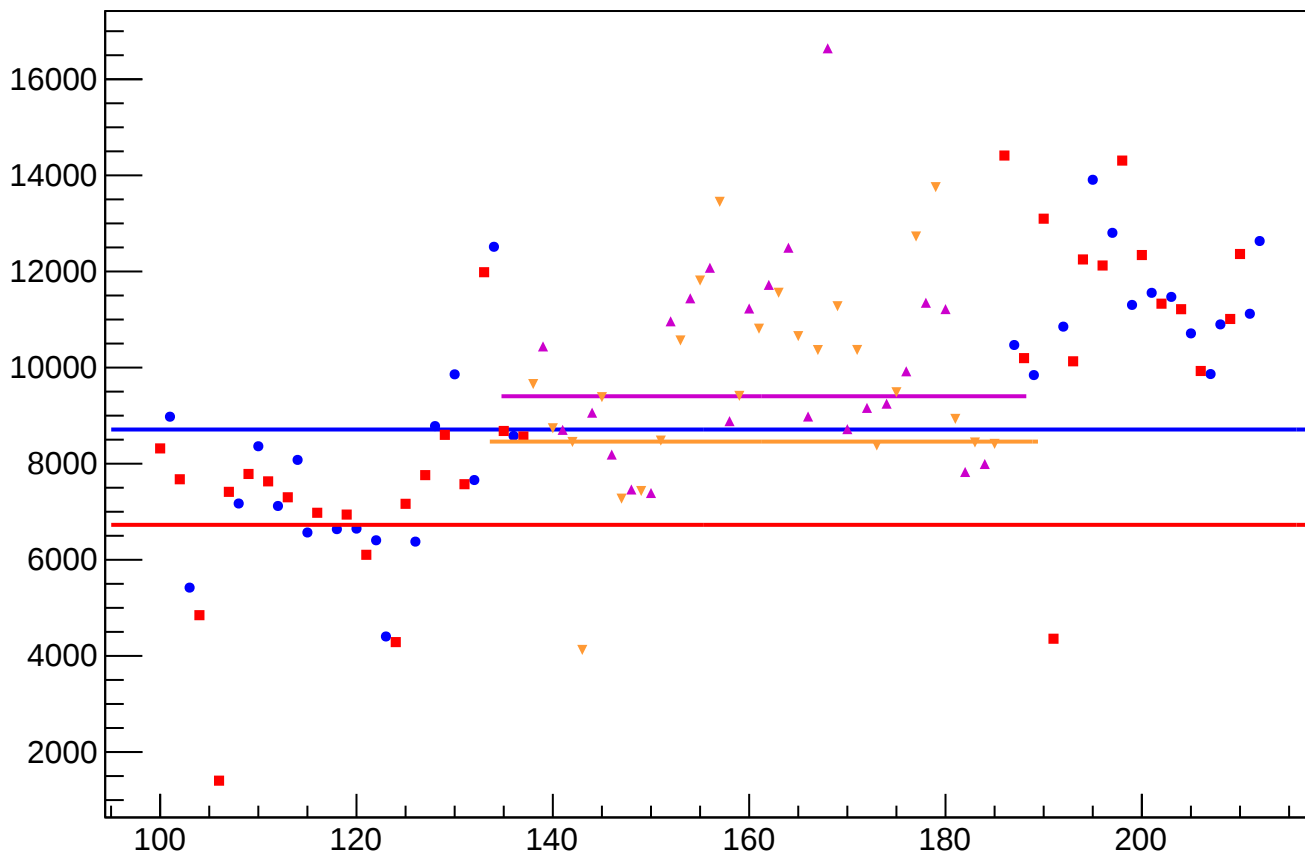
Right: -3220.867 ± 1458.870 χ^2/NDF : 71.1/62

In: -150.755 ± 1612.856 χ^2/NDF : 45.0/52

Out: -3108.918 ± 1401.739 χ^2/NDF : 70.9/57

All: -1835.990 ± 1058.002 χ^2/NDF : 117.8/111

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8711.219+/-1.604 χ^2/NDF : 2108490.3/29

Left Out: 8459.960+/-1.463 χ^2/NDF : 3087200.5/24

Right Out: 6727.451+/-1.347 χ^2/NDF : 7512477.6/32

Left In: 9403.481+/-1.622 χ^2/NDF : 1142646.9/22

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

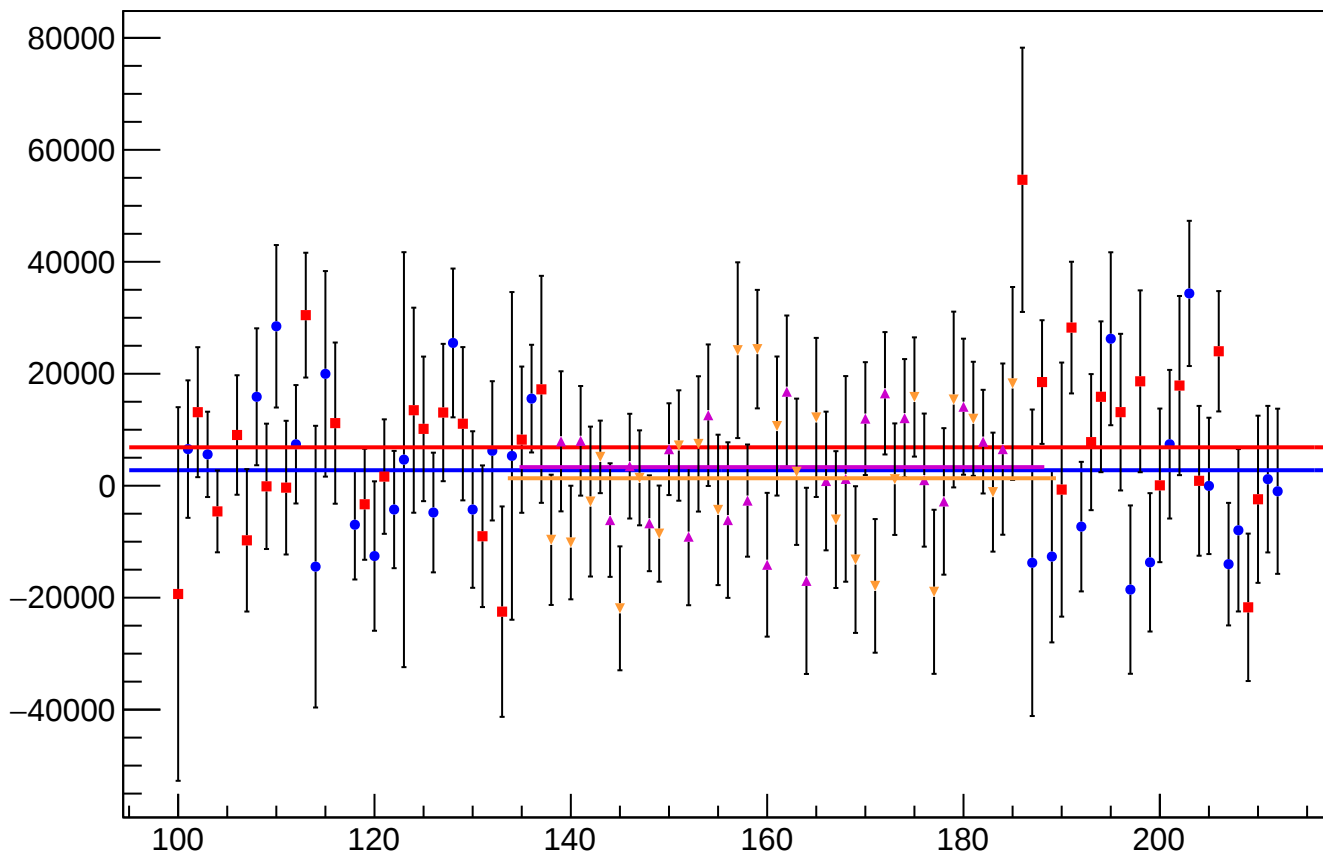
Right: 7548.082+/-1.032 χ^2/NDF : 10517932.2/62

In: 9053.467+/-1.140 χ^2/NDF : 3343238.5/52

Out: 7522.147+/-0.991 χ^2/NDF : 11358278.1/57

All: 8181.089+/-0.748 χ^2/NDF : 15728608.1/113

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2765.891 $\pm$ 2339.274 χ^2 /NDF: 31.7/29

Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF: 28.0/24

Right Out: 6859.883 $\pm$ 2225.159 χ^2 /NDF: 35.0/32

Left In: 3316.909 $\pm$ 2344.543 χ^2 /NDF: 13.7/22

Left: 2267.978 $\pm$ 1609.604 χ^2 /NDF: 42.2/47

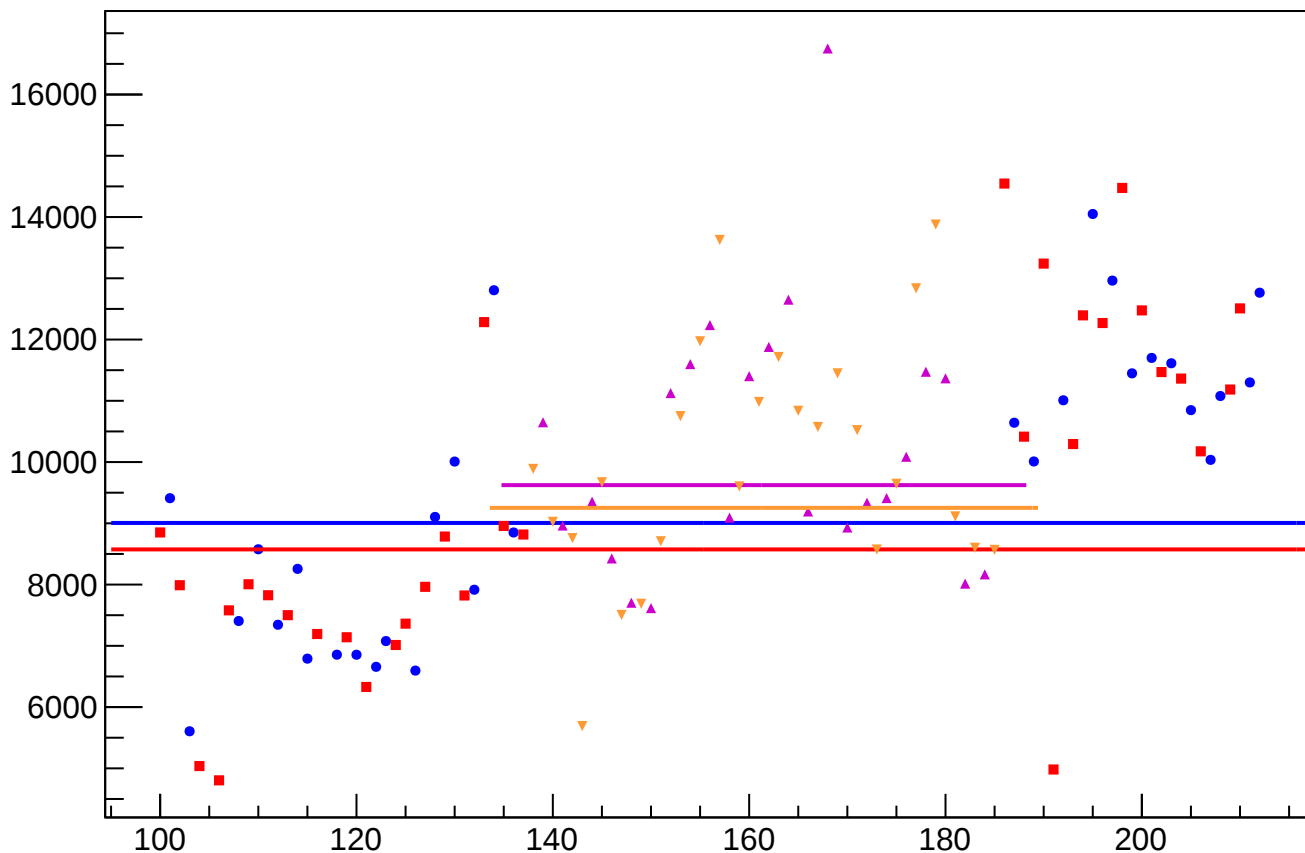
Right: 4915.177 $\pm$ 1612.258 χ^2 /NDF: 68.2/62

In: 3040.780 $\pm$ 1655.976 χ^2 /NDF: 45.4/52

Out: 4082.129 $\pm$ 1569.370 χ^2 /NDF: 66.1/57

All: 3589.397 $\pm$ 1139.099 χ^2 /NDF: 111.7/110

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 9006.199 ± 1.654 $\chi^2/\text{NDF}: 1897011.6/29$

Left Out: 9252.712 ± 1.565 $\chi^2/\text{NDF}: 1597668.9/24$

Right Out: 8574.016 ± 1.573 $\chi^2/\text{NDF}: 2683987.9/32$

Left In: 9623.485 ± 1.658 $\chi^2/\text{NDF}: 1069924.0/22$

Left: 9427.467 ± 1.138 $\chi^2/\text{NDF}: 2694036.4/47$

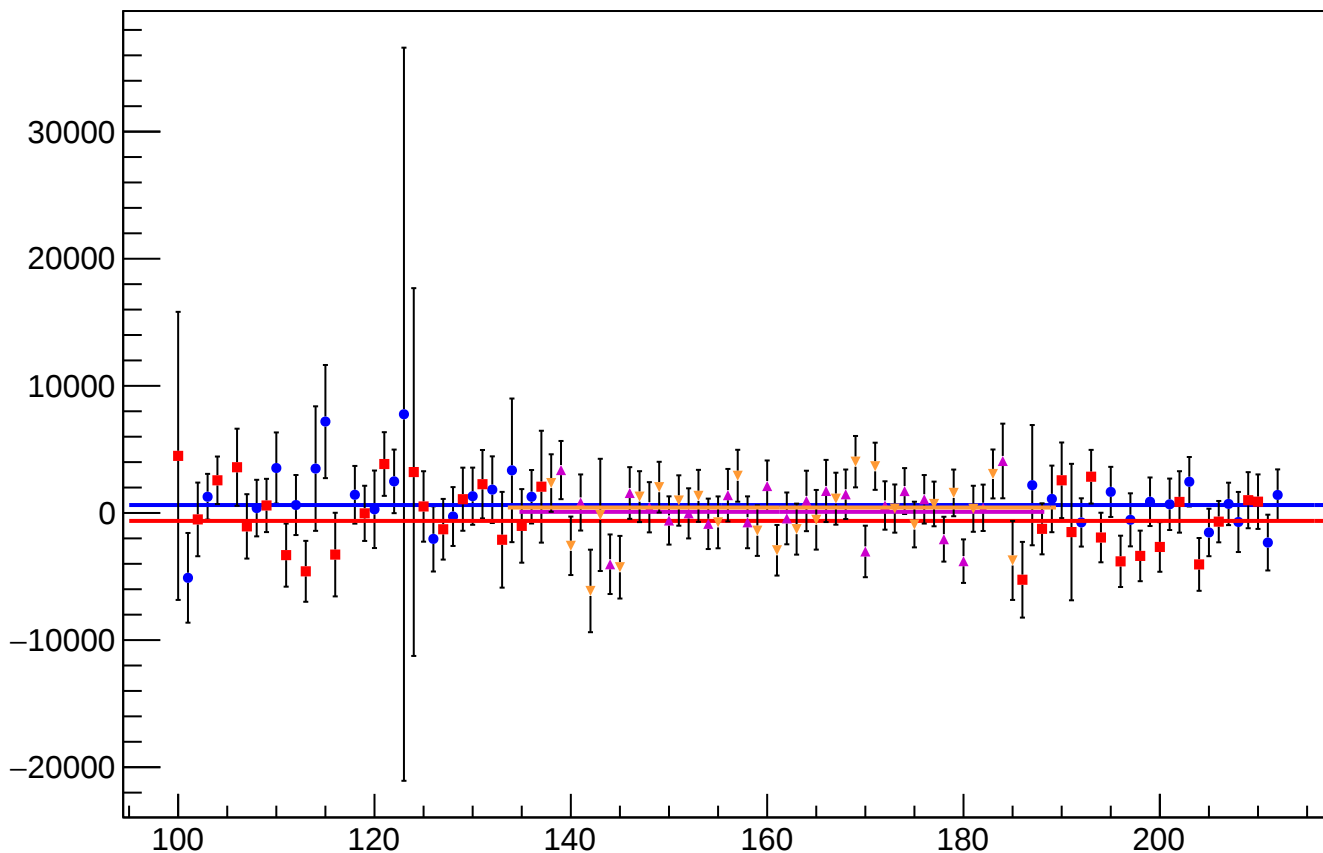
Right: 8779.292 ± 1.140 $\chi^2/\text{NDF}: 4616842.0/62$

In: 9314.143 ± 1.171 $\chi^2/\text{NDF}: 3036412.4/52$

Out: 8915.077 ± 1.110 $\chi^2/\text{NDF}: 4375176.2/57$

All: 9103.894 ± 0.805 $\chi^2/\text{NDF}: 7472782.3/11$

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 624.425 ± 429.948 $\chi^2/\text{NDF}: 14.8/29$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -624.810 ± 425.646 $\chi^2/\text{NDF}: 32.2/32$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

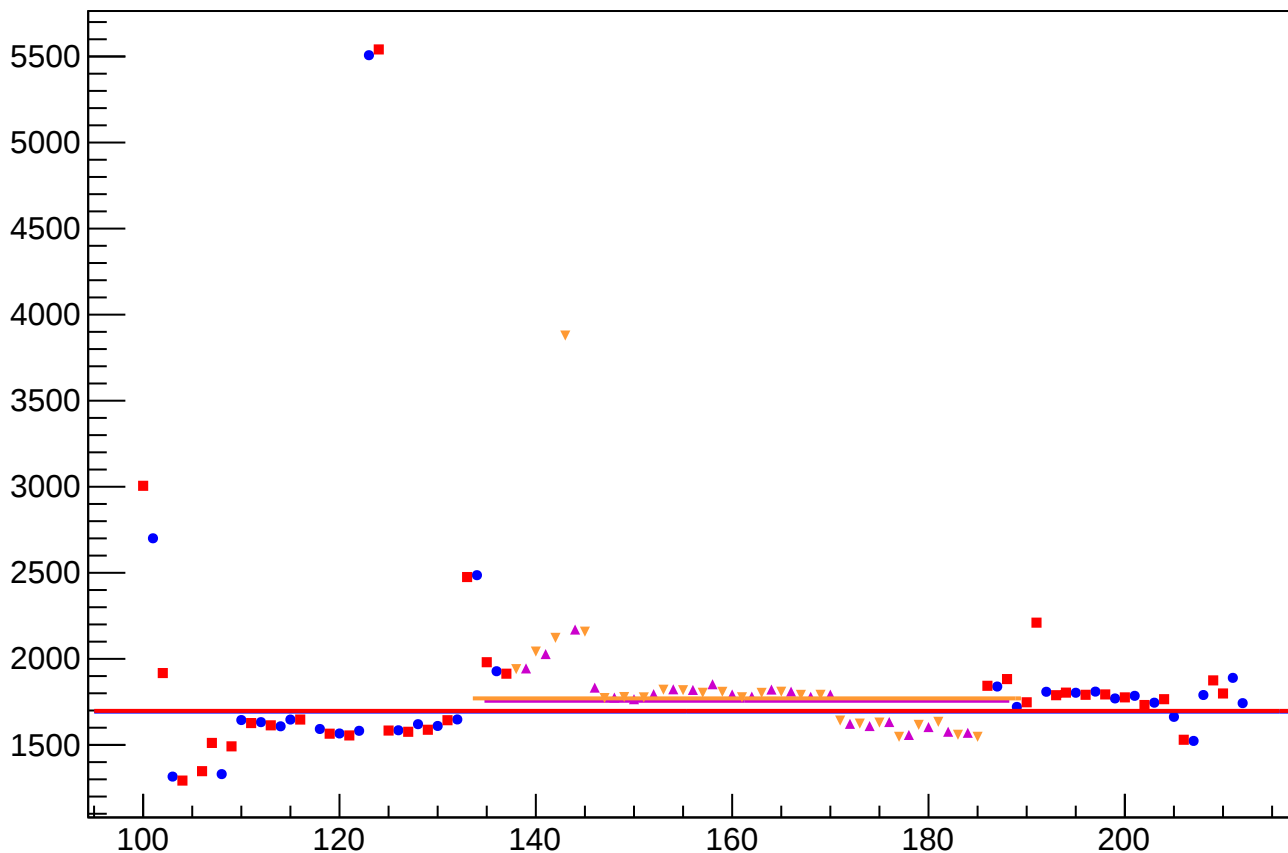
Right: -6.474 ± 302.487 $\chi^2/\text{NDF}: 51.3/62$

In: 351.371 ± 301.154 $\chi^2/\text{NDF}: 36.5/52$

Out: -86.079 ± 297.646 $\chi^2/\text{NDF}: 64.1/57$

All: 130.084 ± 211.697 $\chi^2/\text{NDF}: 101.7/110$

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1693.690 $\pm$ 0.304 χ^2 /NDF: 499007.5/29

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1697.750 $\pm$ 0.301 χ^2 /NDF: 574357.3/32

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

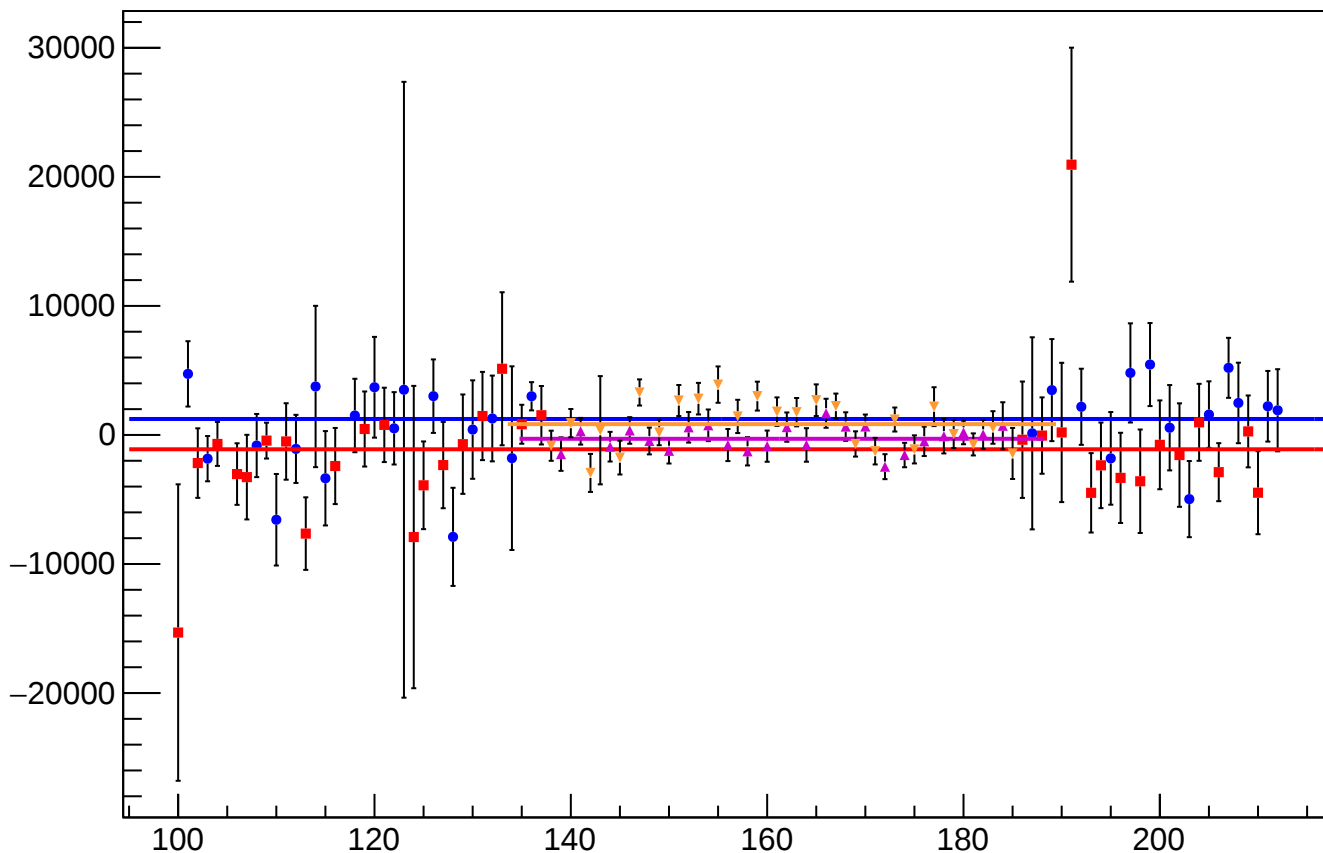
Right: 1695.740 $\pm$ 0.214 χ^2 /NDF: 1073454.8/62

In: 1725.747 $\pm$ 0.213 χ^2 /NDF: 743912.4/52

Out: 1734.866 $\pm$ 0.210 χ^2 /NDF: 1303654.8/57

All: 1730.360 $\pm$ 0.150 χ^2 /NDF: 2048494.9/111

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1238.369+/-512.101 χ^2/NDF : 34.0/29

Left Out: 839.344+/-230.465 χ^2/NDF : 54.4/24

Right Out: -1110.641+/-493.810 χ^2/NDF : 26.0/32

Left In: -298.801+/-231.400 χ^2/NDF : 18.3/22

Left: 272.574+/-163.293 χ^2/NDF : 84.9/47

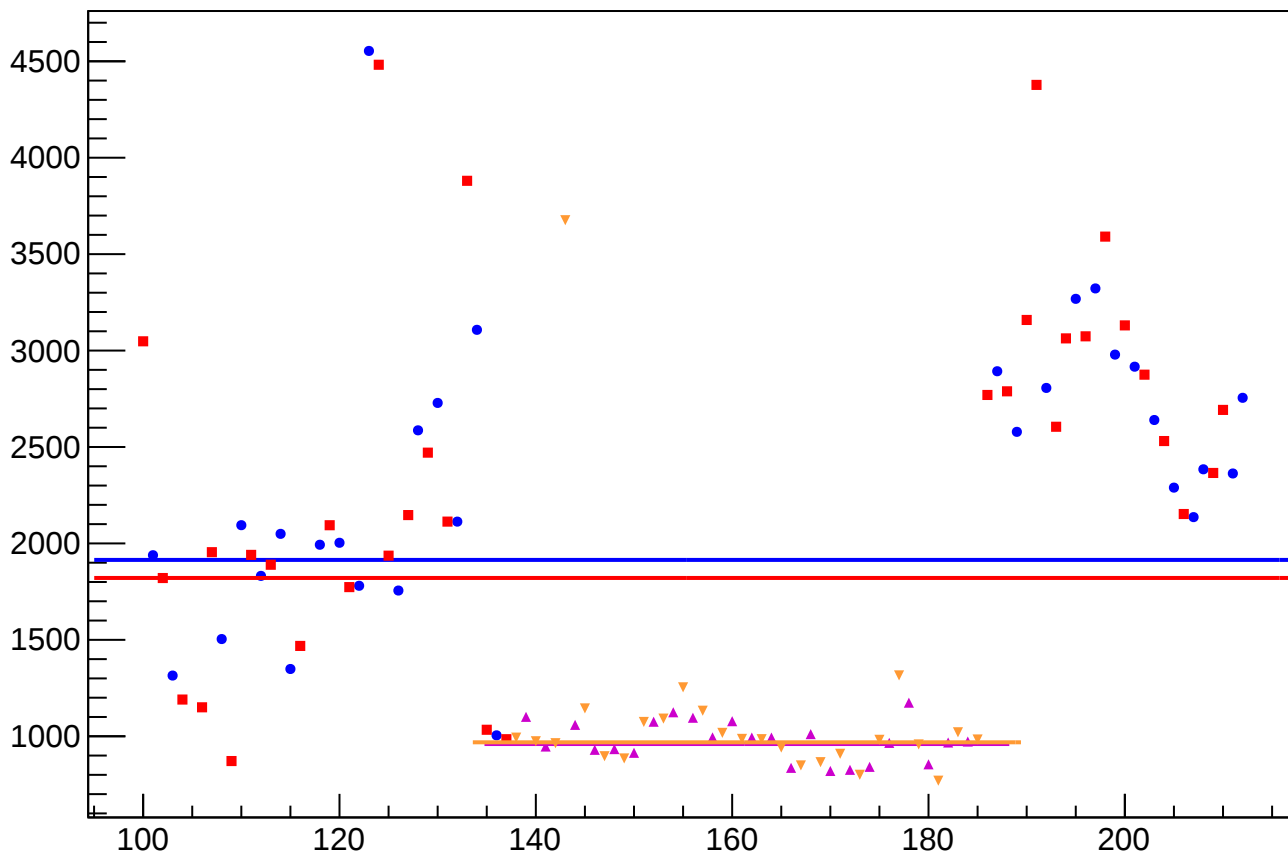
Right: 21.164+/-355.467 χ^2/NDF : 70.9/62

In: -38.159+/-210.871 χ^2/NDF : 59.8/52

Out: 490.573+/-208.840 χ^2/NDF : 93.2/57

All: 228.765+/-148.385 χ^2/NDF : 156.2/110

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1914.474+/-0.362 χ^2/NDF : 3634551.9/29

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1820.926+/-0.349 χ^2/NDF : 5144498.8/32

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

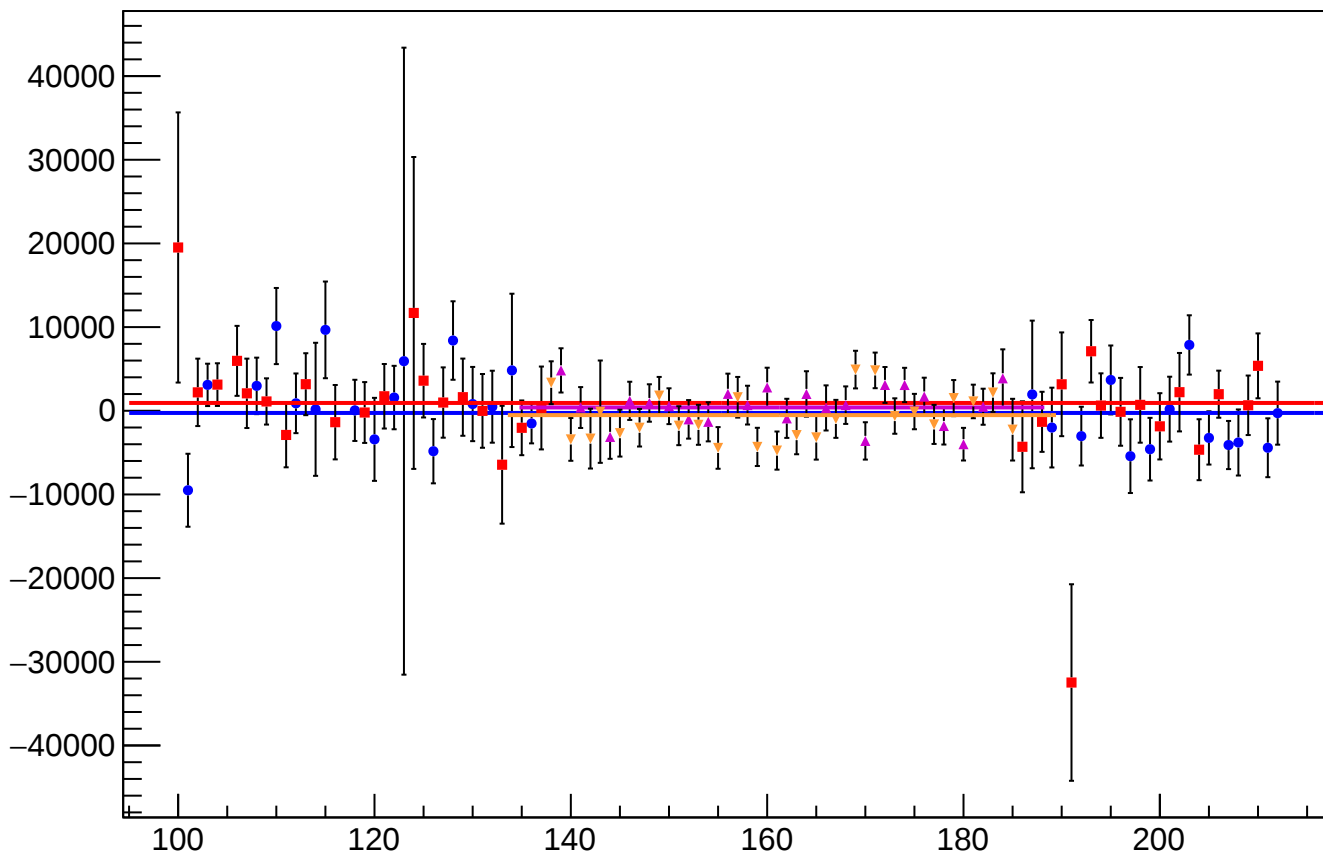
Right: 1865.999+/-0.251 χ^2/NDF : 8813634.0/62

In: 1121.678+/-0.149 χ^2/NDF : 9777848.6/52

Out: 1121.137+/-0.148 χ^2/NDF : 11429513.2/57

All: 1121.405+/-0.105 χ^2/NDF : 21207368.4/111

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -259.201 ± 713.902 χ^2/NDF : 36.2/29

Left Out: -517.719 ± 481.486 χ^2/NDF : 34.0/24

Right Out: 935.513 ± 704.801 χ^2/NDF : 24.9/32

Left In: 397.398 ± 485.048 χ^2/NDF : 21.8/22

Left: -63.533 ± 341.714 χ^2/NDF : 57.7/47

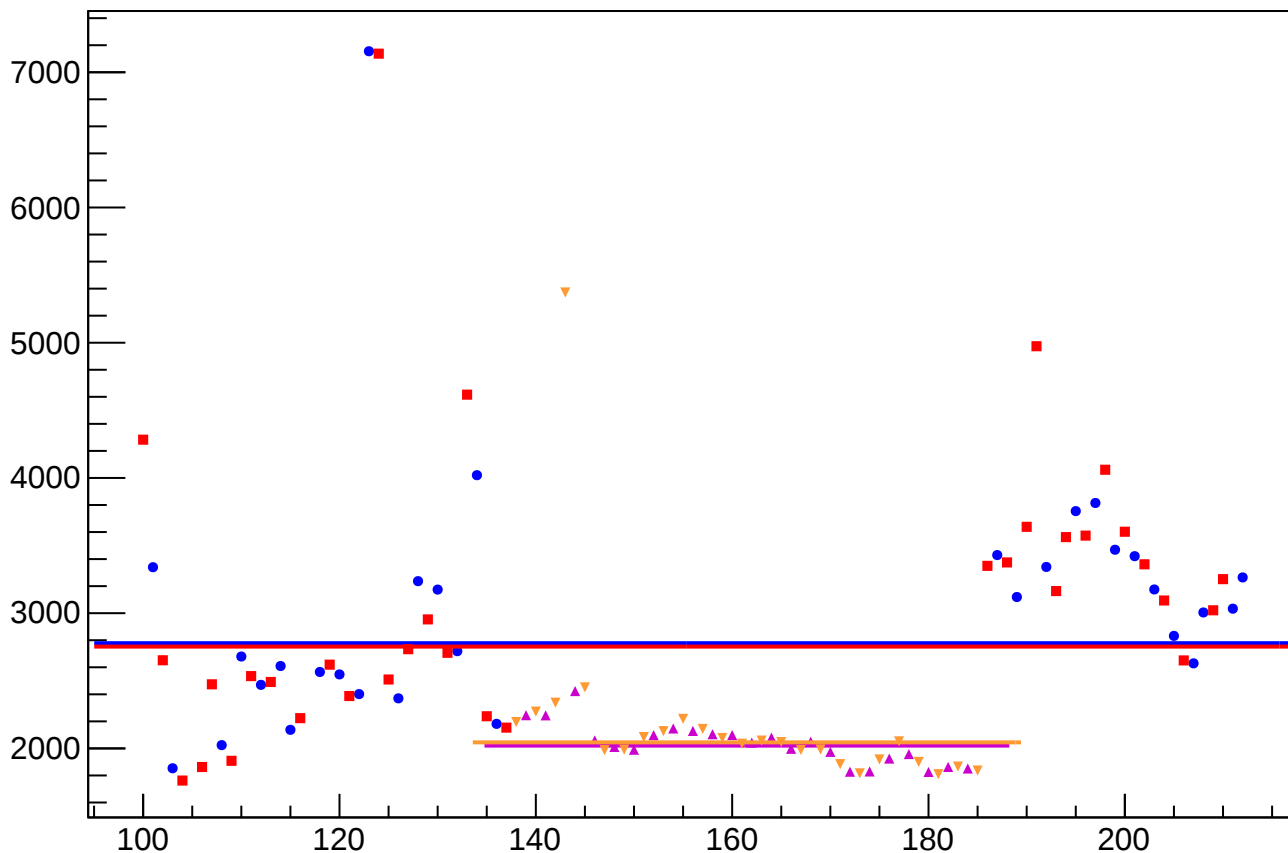
Right: 345.819 ± 501.556 χ^2/NDF : 62.5/62

In: 190.024 ± 401.205 χ^2/NDF : 58.6/52

Out: -55.307 ± 397.570 χ^2/NDF : 61.8/57

All: 66.242 ± 282.401 χ^2/NDF : 120.6/110

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2778.138 $\pm$ 0.505 χ^2 /NDF: 1220626.3/29

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2752.924 $\pm$ 0.498 χ^2 /NDF: 1761489.5/32

Left In: 2020.802 $\pm$ 0.343 χ^2 /NDF: 173502.0/22

Left: 2032.850 $\pm$ 0.242 χ^2 /NDF: 964655.5/47

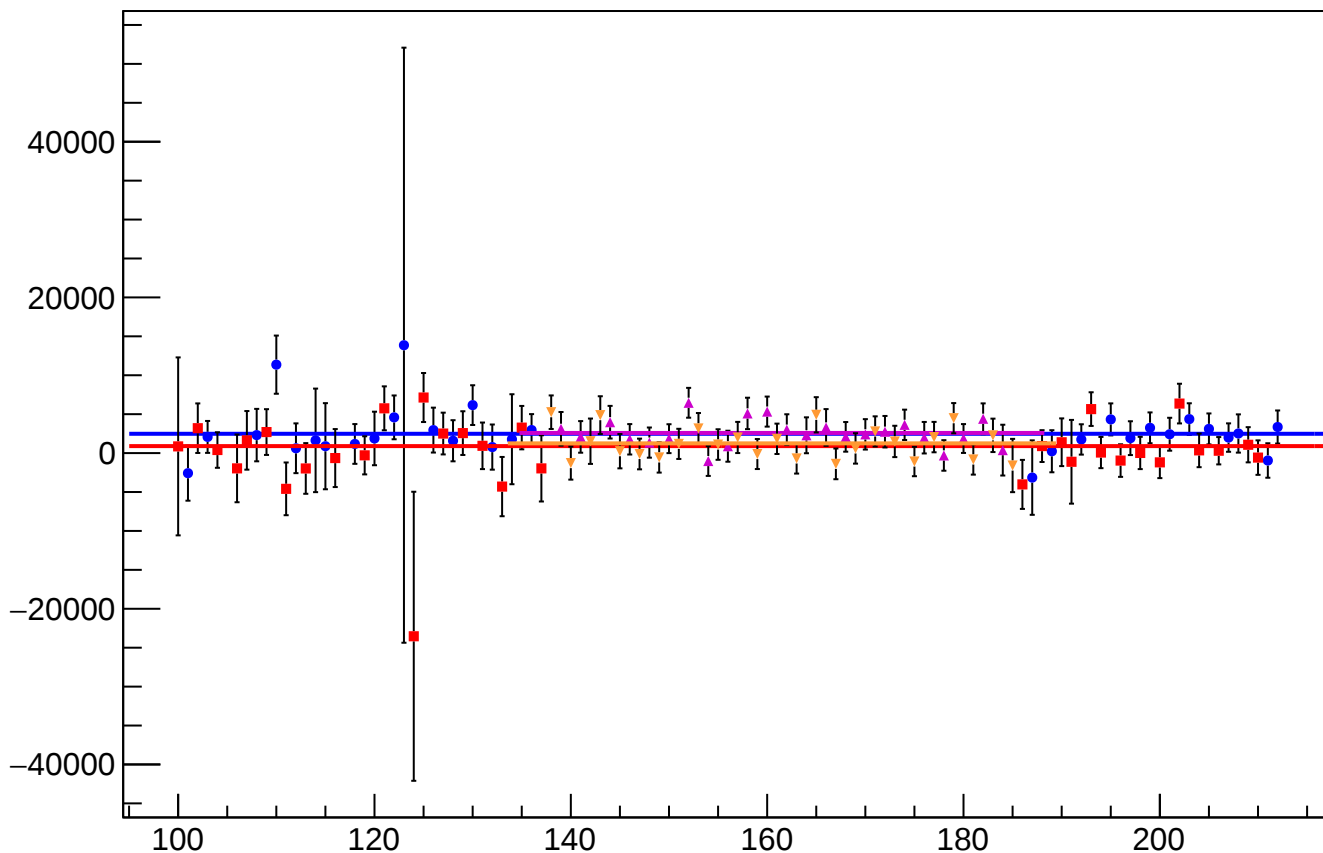
Right: 2765.369 $\pm$ 0.355 χ^2 /NDF: 2983379.2/62

In: 2259.992 $\pm$ 0.284 χ^2 /NDF: 2934034.4/52

Out: 2270.070 $\pm$ 0.281 χ^2 /NDF: 3927000.4/57

All: 2265.077 $\pm$ 0.200 χ^2 /NDF: 6861671.4/111

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2480.454+/-468.349 χ^2/NDF : 18.6/29

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 897.408+/-468.339 χ^2/NDF : 32.5/32

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

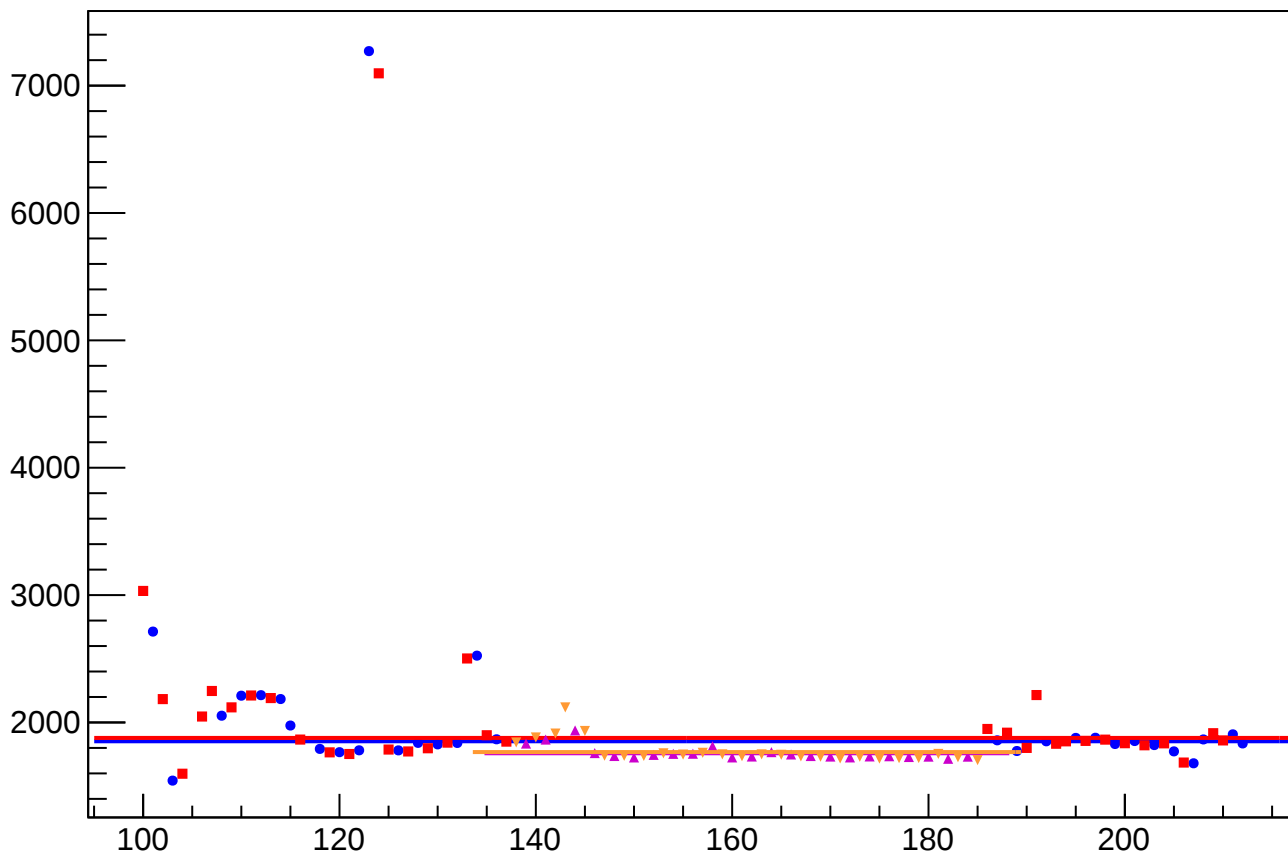
Right: 1688.913+/-331.169 χ^2/NDF : 56.8/62

In: 2539.285+/-313.307 χ^2/NDF : 36.1/52

Out: 1095.926+/-309.545 χ^2/NDF : 55.8/57

All: 1808.886+/-220.199 χ^2/NDF : 102.6/110

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1852.195+/-0.331 χ^2 /NDF: 318952.3/29

Left Out: 1767.517+/-0.292 χ^2 /NDF: 77674.7/24

Right Out: 1878.601+/-0.331 χ^2 /NDF: 409772.4/32

Left In: 1758.076+/-0.298 χ^2 /NDF: 29806.0/22

Left: 1762.899+/-0.208 χ^2 /NDF: 107993.2/47

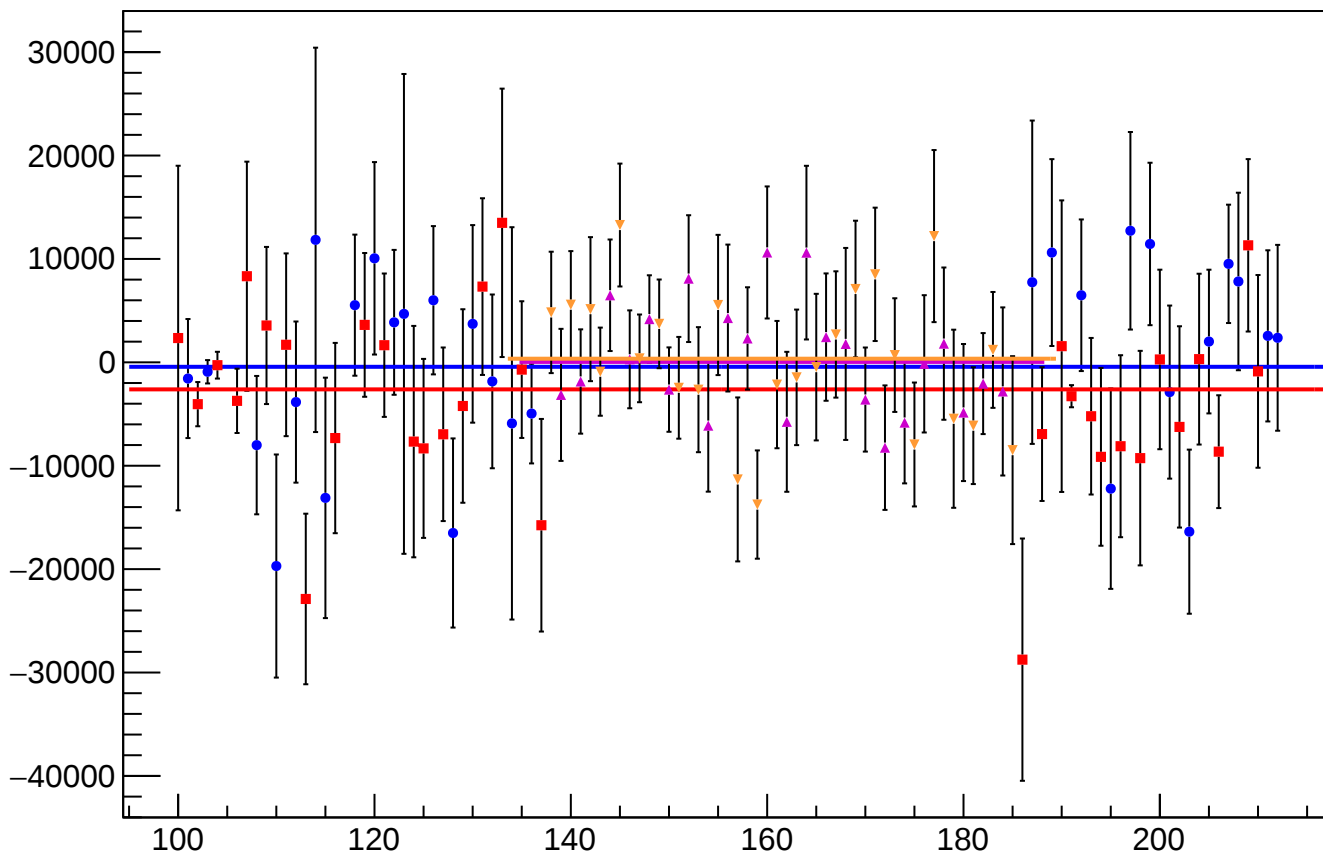
Right: 1865.407+/-0.234 χ^2 /NDF: 731905.7/62

In: 1800.195+/-0.222 χ^2 /NDF: 393382.1/52

Out: 1816.078+/-0.219 χ^2 /NDF: 550856.8/57

All: 1808.235+/-0.156 χ^2 /NDF: 946840.5/110

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -432.190 ± 903.564 $\chi^2/\text{NDF}: 30.8/29$

Left Out: 351.227 ± 1170.051 $\chi^2/\text{NDF}: 27.8/24$

Right Out: -2615.193 ± 676.122 $\chi^2/\text{NDF}: 30.6/32$

Left In: 40.618 ± 1207.491 $\chi^2/\text{NDF}: 16.0/22$

Left: 200.813 ± 840.276 $\chi^2/\text{NDF}: 43.9/47$

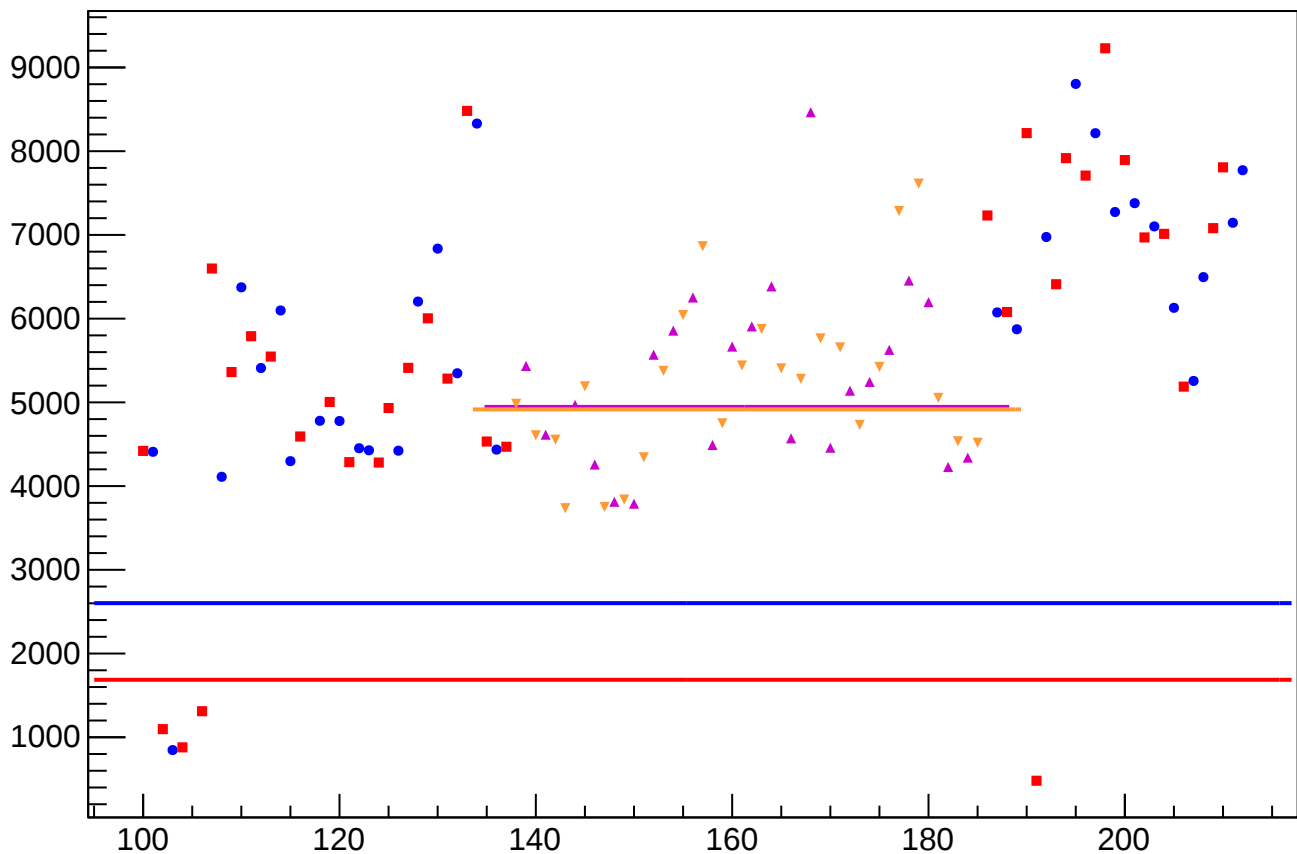
Right: -1831.616 ± 541.343 $\chi^2/\text{NDF}: 65.2/62$

In: -262.474 ± 723.442 $\chi^2/\text{NDF}: 46.9/52$

Out: -1872.613 ± 585.410 $\chi^2/\text{NDF}: 63.3/57$

All: -1235.481 ± 455.079 $\chi^2/\text{NDF}: 113.2/110$

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2601.967 $\pm$ 0.639

χ^2/NDF : 14935736.6/29

Left: 4930.370 $\pm$ 0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865 $\pm$ 0.827

χ^2/NDF : 1186479.7/24

Right: 2015.144 $\pm$ 0.383

χ^2/NDF : 35685965.0/62

Right Out: 1686.566 $\pm$ 0.478

χ^2/NDF : 19434307.3/32

In: 3443.302 $\pm$ 0.512

χ^2/NDF : 20954733.2/52

Out: 2494.952 $\pm$ 0.414

χ^2/NDF : 32041875.7/57

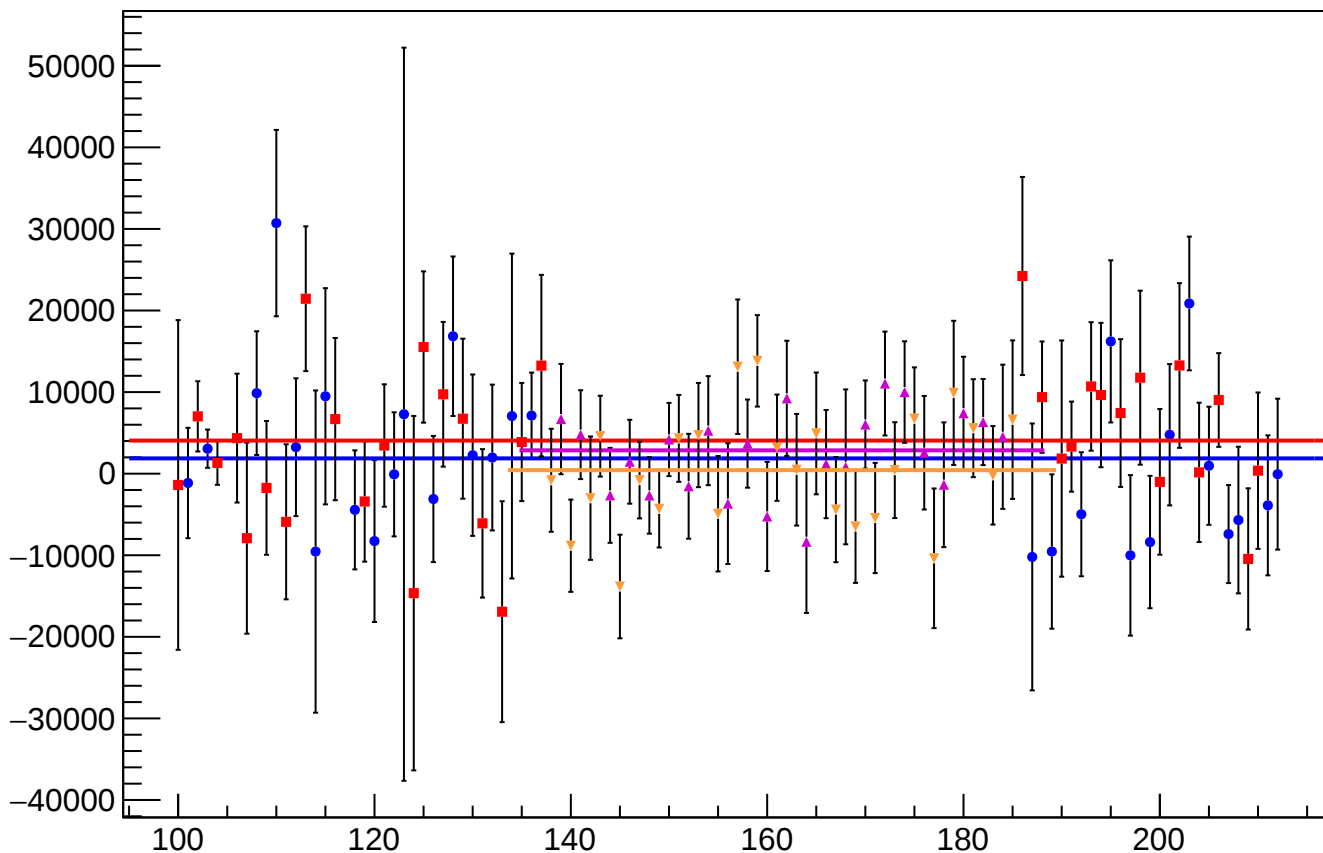
Left In: 4945.817 $\pm$ 0.854

χ^2/NDF : 1188288.6/22

All: 2870.214 $\pm$ 0.322

χ^2/NDF : 55073492.5/100

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 1873.893 $\pm$ 1328.474 χ^2/NDF : 31.4/29

Left Out: 430.860 $\pm$ 1258.273 χ^2/NDF : 27.1/24

Right Out: 4059.414 $\pm$ 1298.537 χ^2/NDF : 26.5/32

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

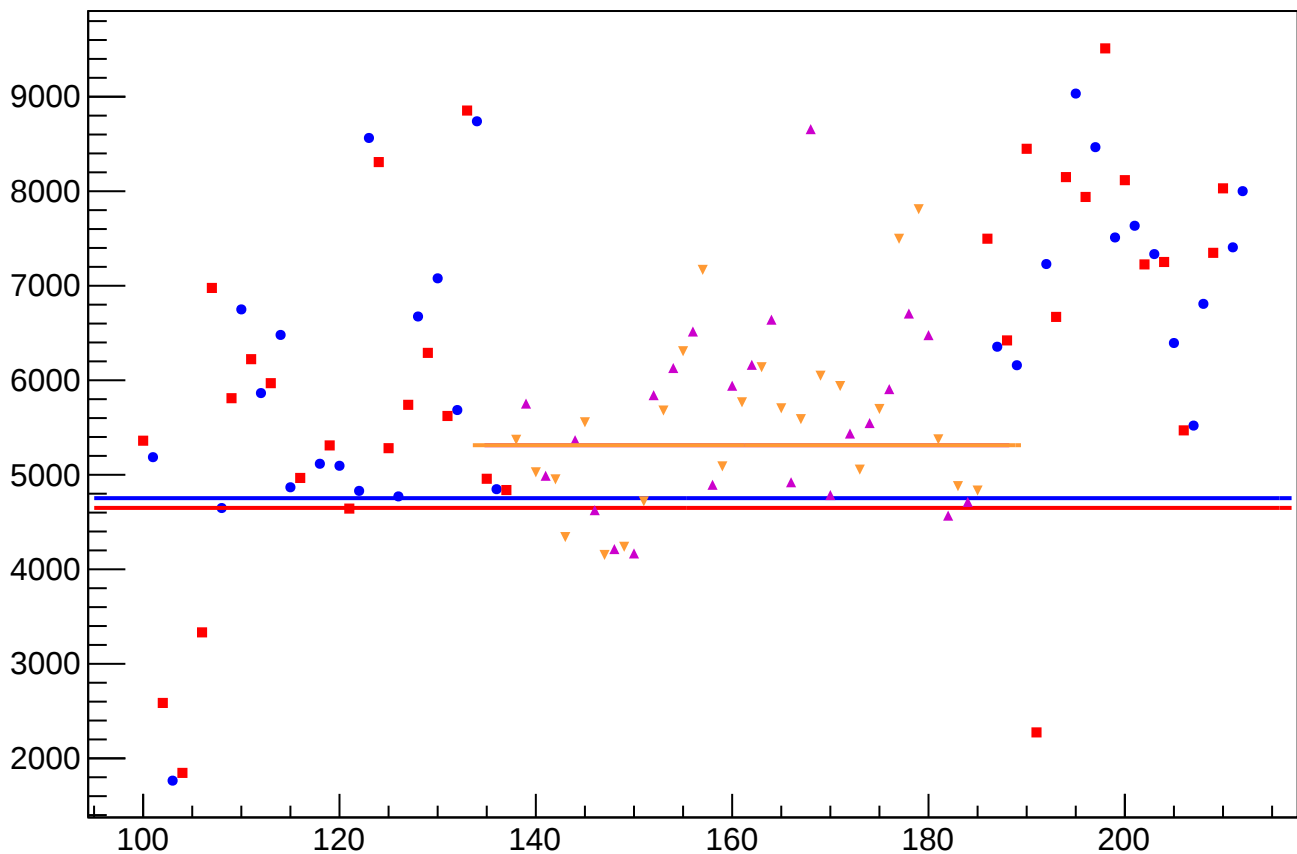
Right: 2991.555 $\pm$ 928.608 χ^2/NDF : 59.3/62

In: 2380.673 $\pm$ 926.329 χ^2/NDF : 44.5/52

Out: 2188.009 $\pm$ 903.633 χ^2/NDF : 57.7/57

All: 2281.952 $\pm$ 646.840 χ^2/NDF : 102.2/110

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4752.857+/-0.939 χ^2/NDF : 5942014.8/29

Left Out: 5313.008+/-0.890 χ^2/NDF : 894369.8/24

Right Out: 4649.672+/-0.914 χ^2/NDF : 6331624.2/32

Left In: 5312.861+/-0.914 χ^2/NDF : 957400.7/22

Left: 5312.937+/-0.637 χ^2/NDF : 1851770.5/47

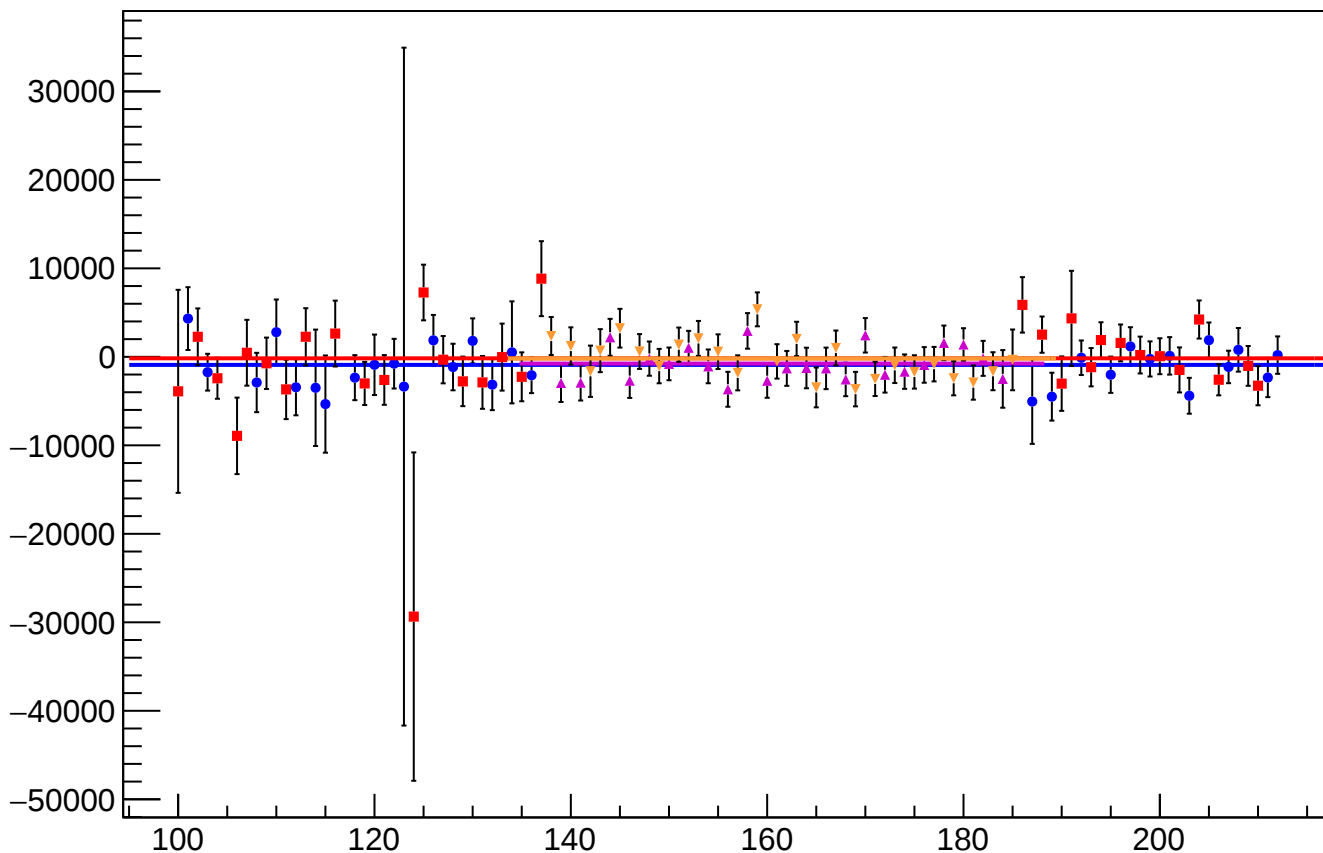
Right: 4699.864+/-0.655 χ^2/NDF : 12279835.8/62

In: 5040.581+/-0.655 χ^2/NDF : 7082011.7/52

Out: 4990.336+/-0.638 χ^2/NDF : 7496374.0/57

All: 5014.782+/-0.457 χ^2/NDF : 14581407.0/103

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -909.184 ± 468.025 χ^2/NDF : 18.9/29

Left Out: -179.794 ± 410.976 χ^2/NDF : 29.3/24

Right Out: -168.199 ± 467.911 χ^2/NDF : 42.4/32

Left In: -759.753 ± 419.905 χ^2/NDF : 20.3/22

Left: -463.542 ± 293.710 χ^2/NDF : 50.5/47

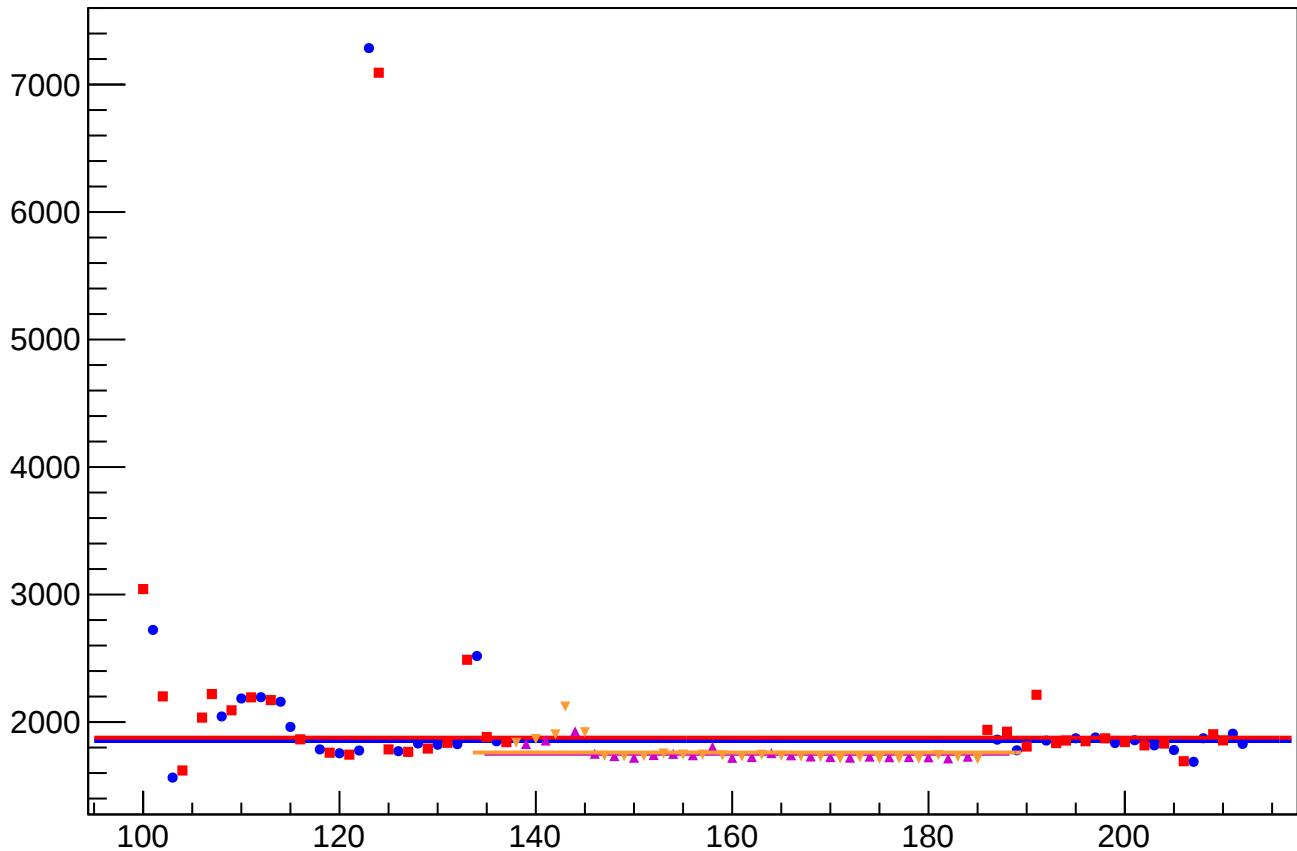
Right: -538.600 ± 330.903 χ^2/NDF : 62.6/62

In: -826.394 ± 312.550 χ^2/NDF : 39.2/52

Out: -174.744 ± 308.782 χ^2/NDF : 71.7/57

All: -496.617 ± 219.662 χ^2/NDF : 113.1/110

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.324+/-0.331 χ^2/NDF : 306569.0/29

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1877.538+/-0.331 χ^2/NDF : 394833.5/32

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

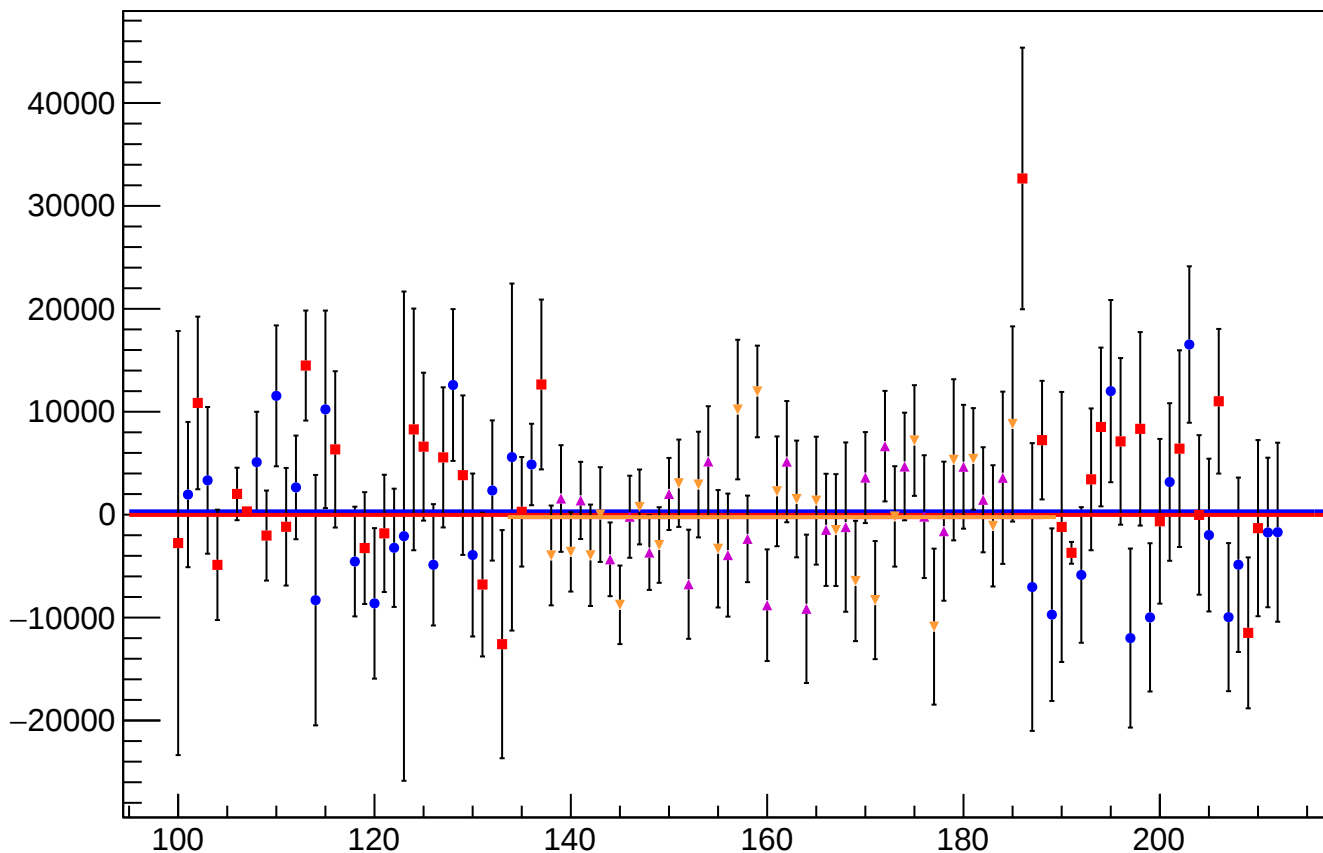
Right: 1864.443+/-0.234 χ^2/NDF : 704542.2/62

In: 1795.973+/-0.221 χ^2/NDF : 385639.2/52

Out: 1811.838+/-0.218 χ^2/NDF : 542277.0/57

All: 1804.004+/-0.155 χ^2/NDF : 930525.1/110

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 319.755 ± 1287.291 χ^2/NDF : 29.4/29

Left Out: -235.806 ± 1005.144 χ^2/NDF : 28.9/24

Right Out: -23.138 ± 409.983 χ^2/NDF : 48.0/32

Left In: -239.224 ± 1028.883 χ^2/NDF : 15.3/22

Left: -237.475 ± 718.990 χ^2/NDF : 44.2/47

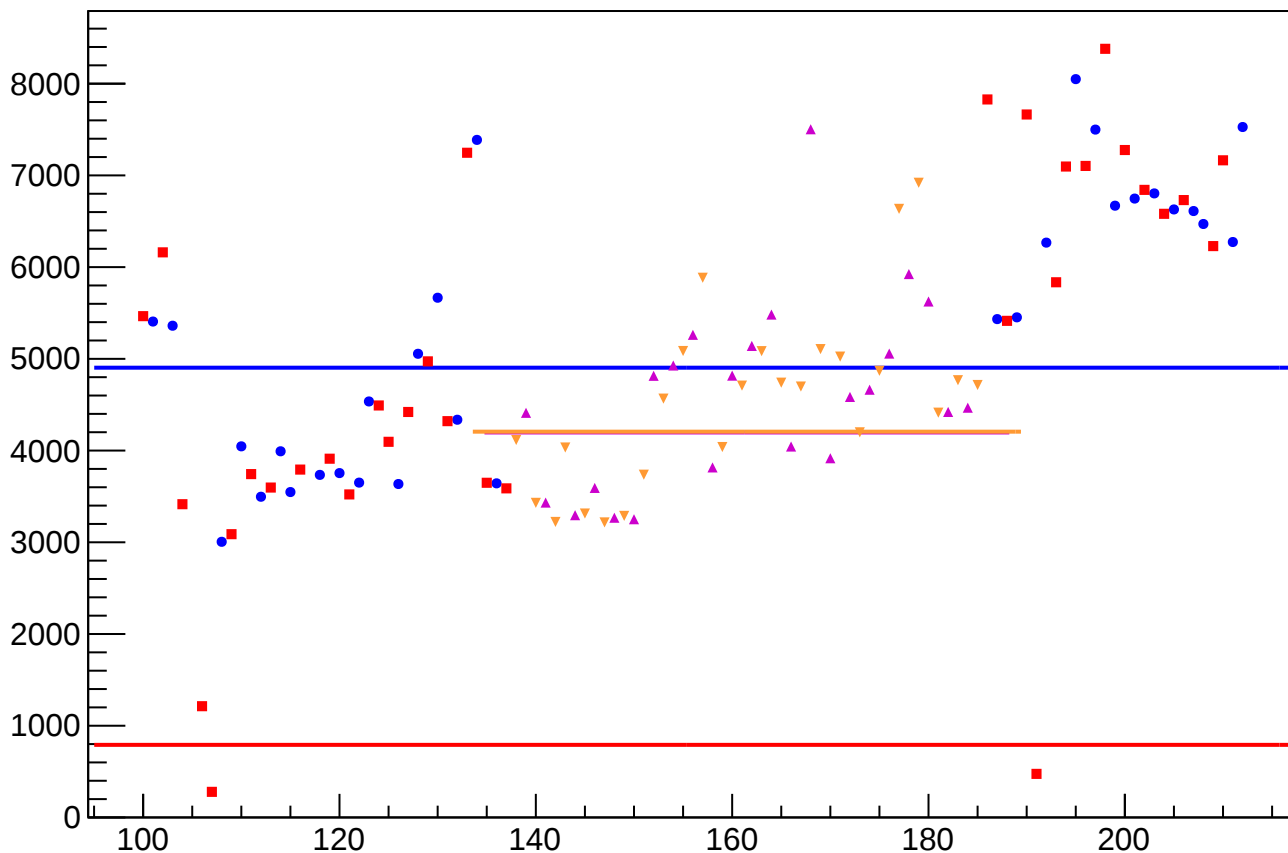
Right: 8.439 ± 390.650 χ^2/NDF : 77.5/62

In: -21.331 ± 803.712 χ^2/NDF : 44.9/52

Out: -53.473 ± 379.619 χ^2/NDF : 76.9/57

All: -47.610 ± 343.255 χ^2/NDF : 121.8/110

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4903.560+/-0.910

χ^2/NDF : 2602683.8/29

Left: 4201.775+/-0.508 χ^2/NDF : 2913357.2/47

Right: 1170.179+/-0.276 χ^2/NDF : 46106220.0/62

Left Out: 4206.076+/-0.711

χ^2/NDF :1442269.3/24

In: 4472.584+/-0.568 χ^2/NDF :4441075.3/52

Right Out: 791.491+/-0.290

χ^2/NDF : 24975089.1/32

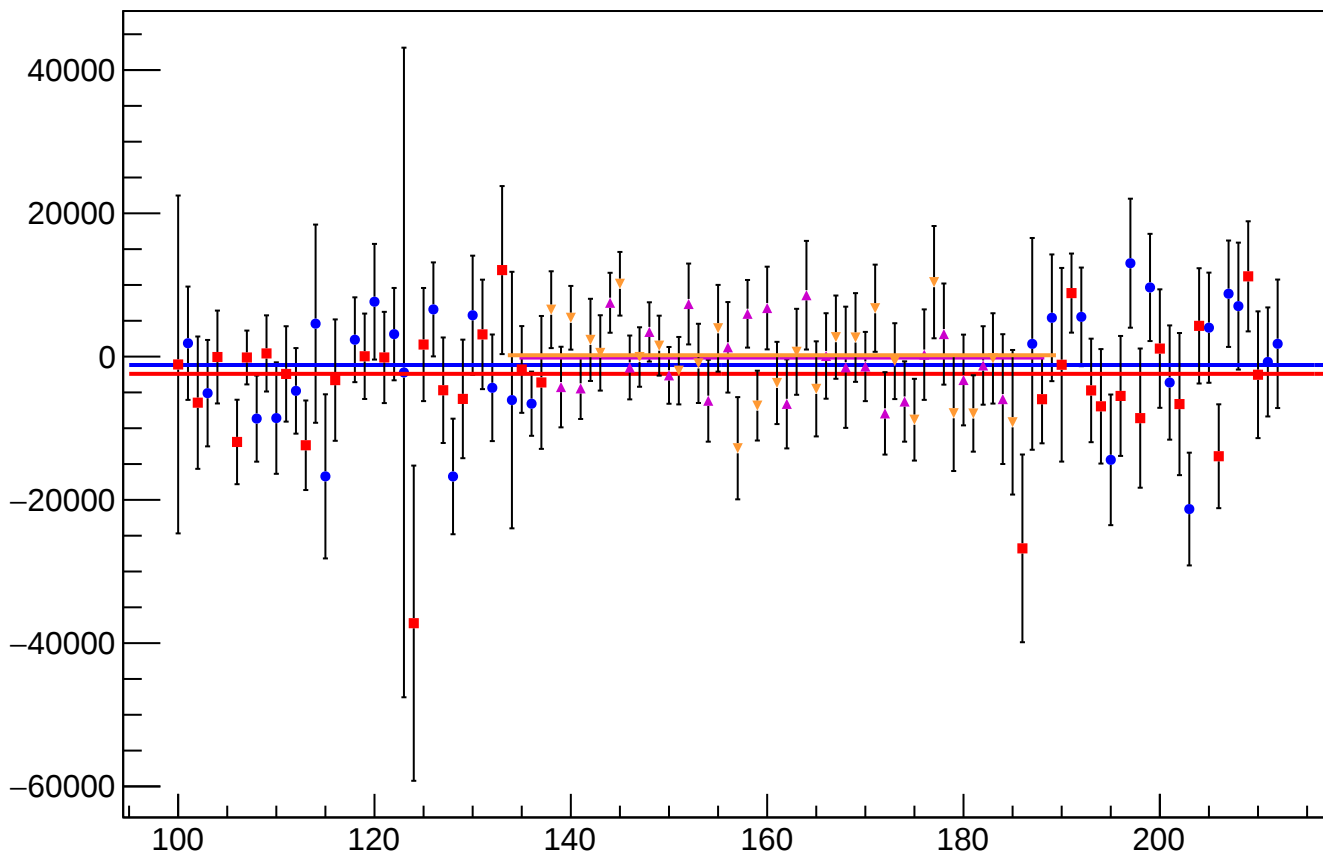
Out: 1278.546+/-0.268 χ^2/NDF :46205867.1/57

Left In: 4197.267+/-0.728

χ^2/NDF :1471012.9/22

All: 1861.151+/-0.243 χ^2/NDF : 76472399.4/13

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1172.093+/-1411.863 χ^2/NDF : 32.9/29

Left Out: 189.721+/-1106.851 χ^2/NDF : 25.0/24

Right Out: -2408.473+/-1269.262 χ^2/NDF : 27.2/32

Left In: -137.477+/-1129.656 χ^2/NDF : 18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

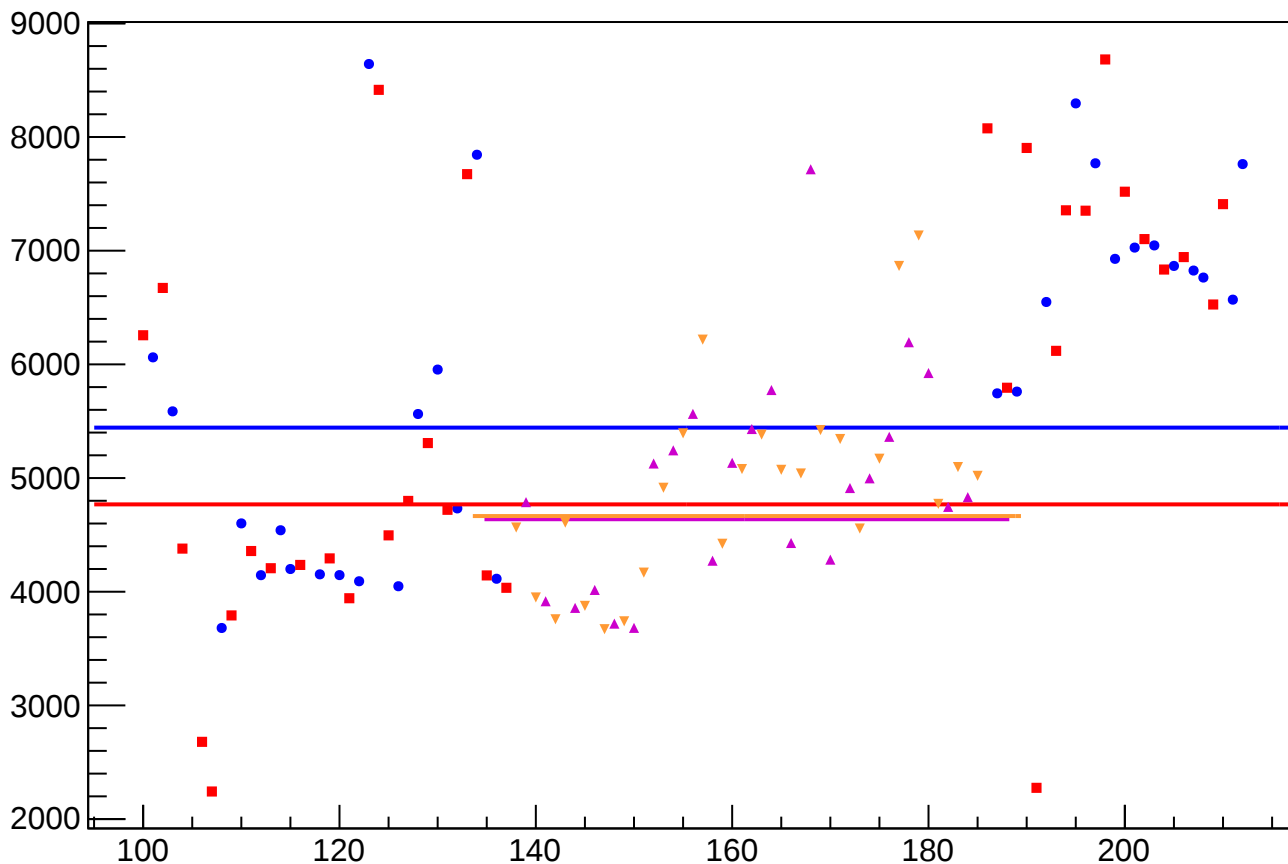
Right: -1855.857+/-943.905 χ^2/NDF : 60.5/62

In: -541.302+/-882.063 χ^2/NDF : 51.8/52

Out: -932.612+/-834.212 χ^2/NDF : 54.6/57

All: -747.858+/-606.087 χ^2/NDF : 106.5/110

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5443.582 $\pm$ 0.998 χ^2 /NDF: 1892046.2/29

Left Out: 4665.620 $\pm$ 0.783 χ^2 /NDF:1017235.0/24

Right Out: 4768.319 $\pm$ 0.894 χ^2 /NDF: 4087851.7/32

Left In: 4637.777 $\pm$ 0.799 χ^2 /NDF:1065217.2/22

Left: 4651.983 $\pm$ 0.559 χ^2 /NDF: 2083072.1/47

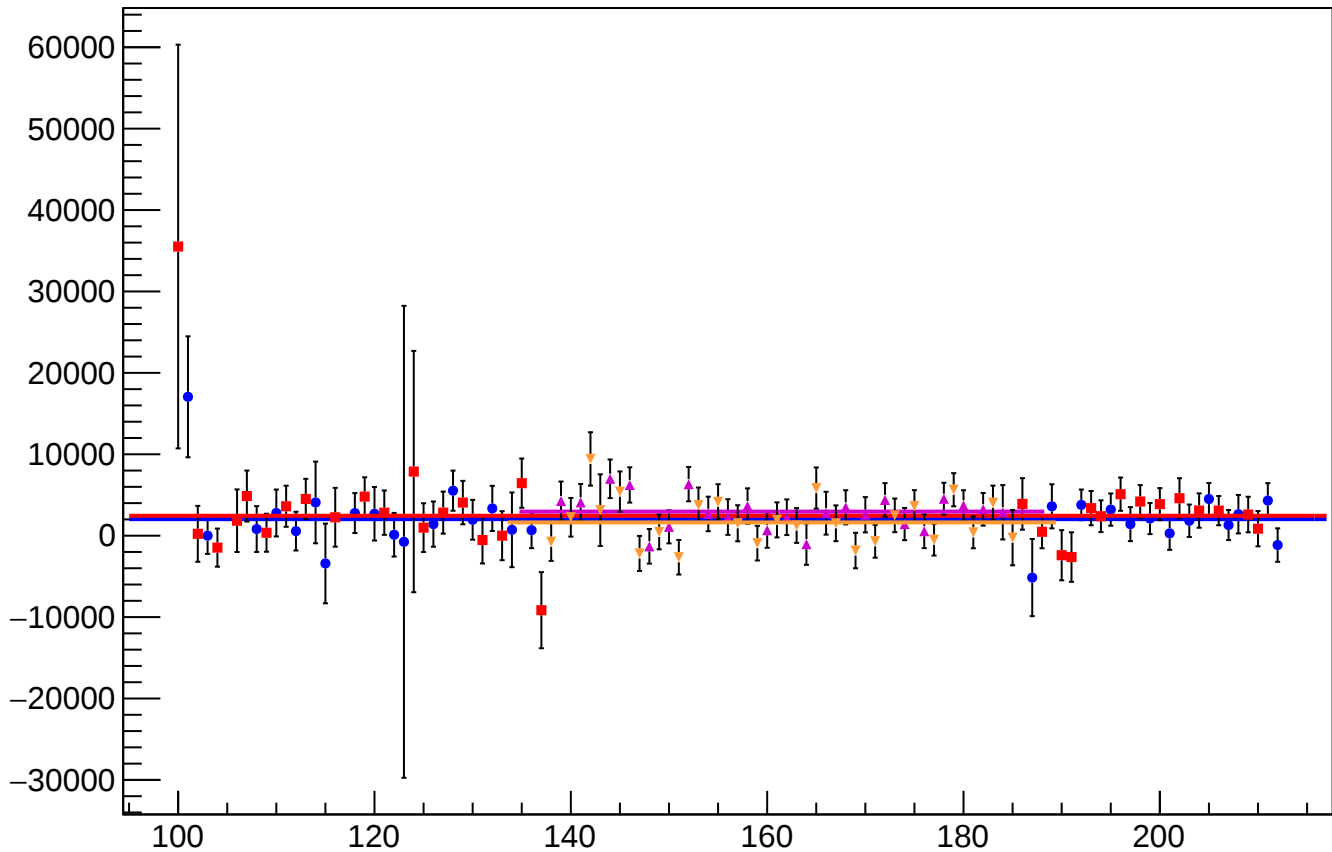
Right: 5068.744 $\pm$ 0.666 χ^2 /NDF: 6233855.7/62

In: 4952.294 $\pm$ 0.624 χ^2 /NDF:3354465.2/52

Out: 4710.193 $\pm$ 0.589 χ^2 /NDF:5112559.6/57

All: 4824.281 $\pm$ 0.428 χ^2 /NDF: 8546692.7/11

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2031.143+/-453.340 χ^2/NDF : 20.4/29

Left Out: 1630.035+/-447.063 χ^2/NDF :35.4/24

Right Out: 2448.373+/-445.665 χ^2/NDF : 29.8/32

Left In: 2958.620+/-453.688 χ^2/NDF :20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

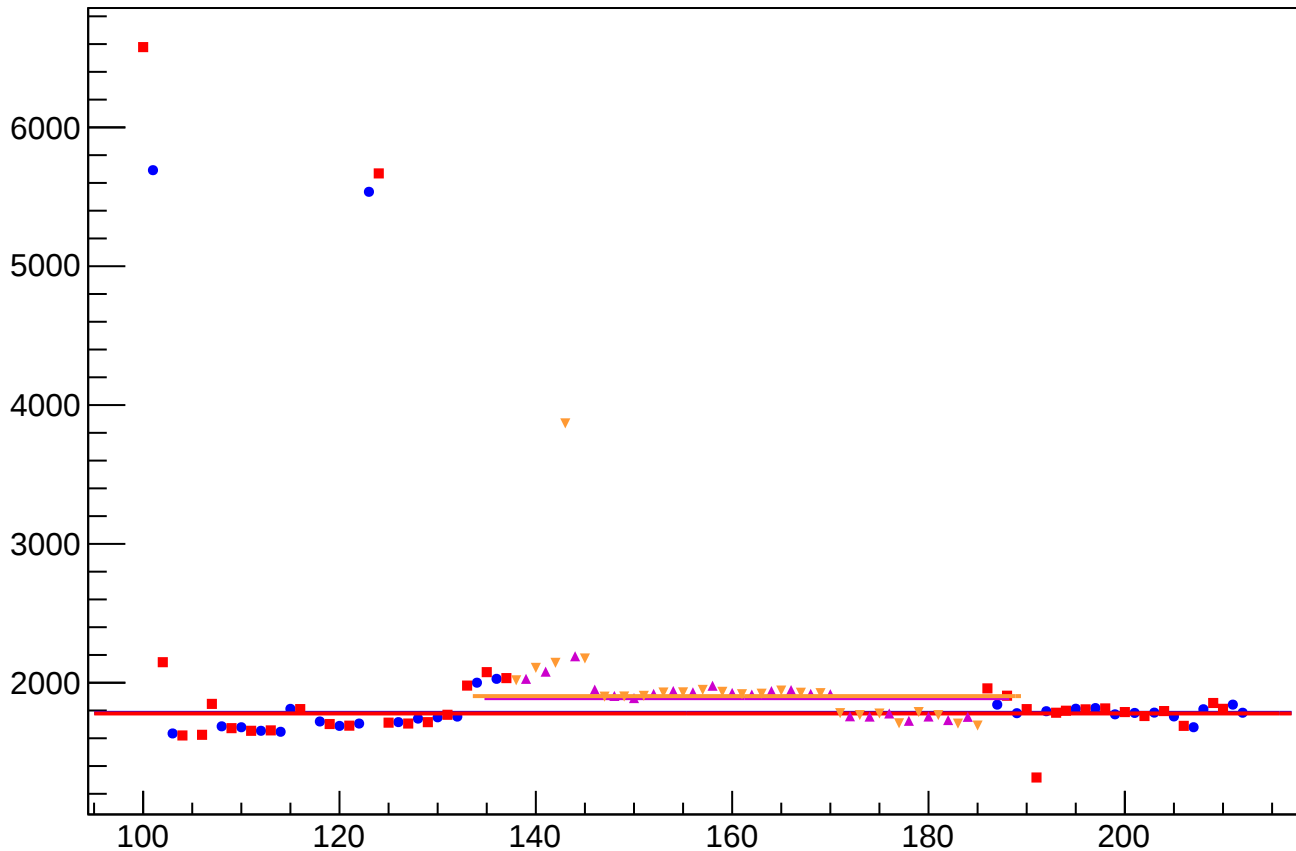
Right: 2243.320+/-317.811 χ^2/NDF : 50.6/62

In: 2494.526+/-320.683 χ^2/NDF :42.9/52

Out: 2040.486+/-315.626 χ^2/NDF :66.9/57

All: 2263.898+/-224.948 χ^2/NDF : 110.8/110

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1783.077+/-0.321 χ^2/NDF : 654507.7/29

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1778.656+/-0.314 χ^2/NDF : 376632.8/32

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

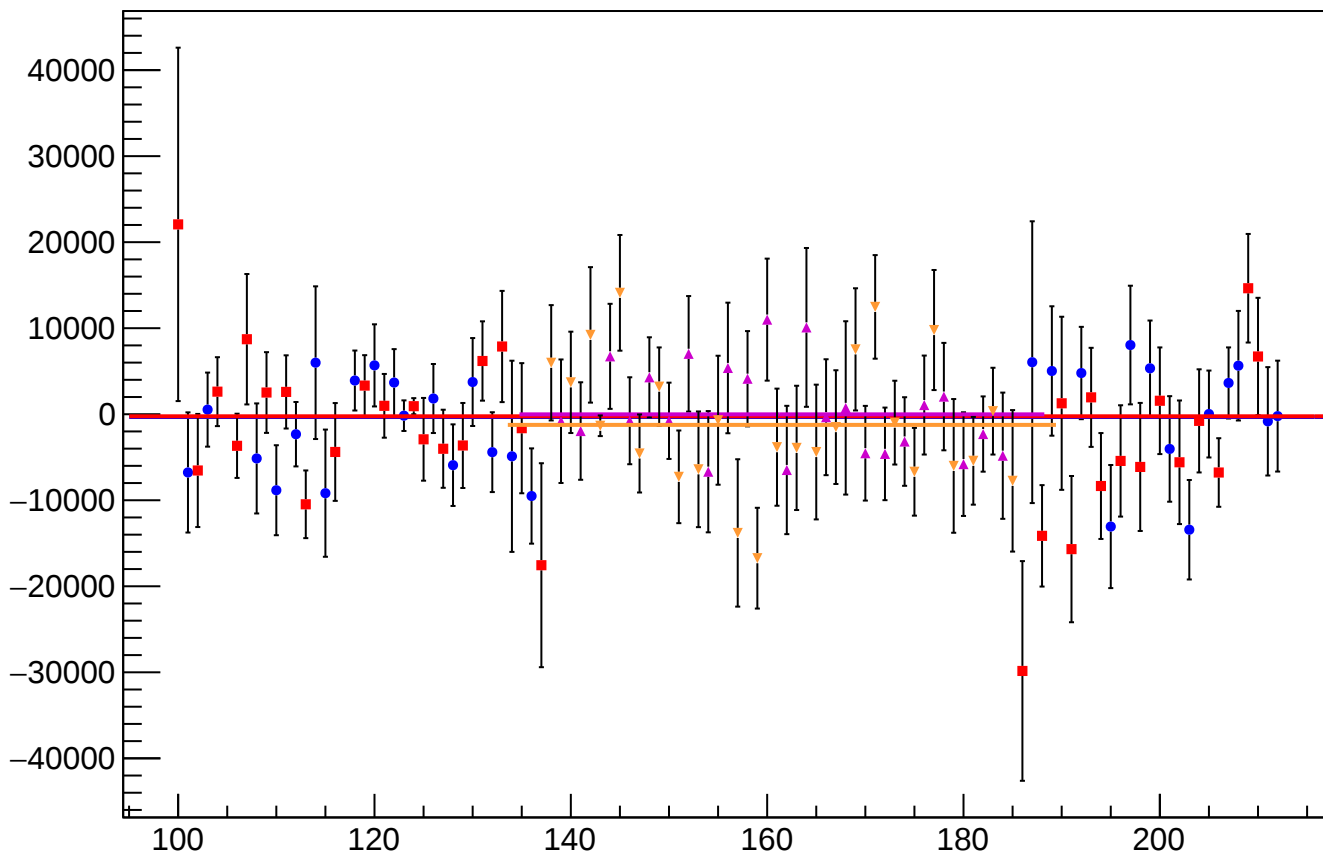
Right: 1780.822+/-0.224 χ^2/NDF : 1031237.5/62

In: 1835.961+/-0.227 χ^2/NDF : 835400.1/52

Out: 1840.759+/-0.223 χ^2/NDF : 996811.9/57

All: 1838.402+/-0.159 χ^2/NDF : 1832439.6/111

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -322.998 ± 865.248 χ^2/NDF : 31.0/29

Left Out: -1239.833 ± 865.201 χ^2/NDF : 33.9/24

Right Out: -240.883 ± 668.483 χ^2/NDF : 50.1/32

Left In: -15.863 ± 1243.317 χ^2/NDF : 13.2/22

Left: -840.501 ± 710.172 χ^2/NDF : 47.8/47

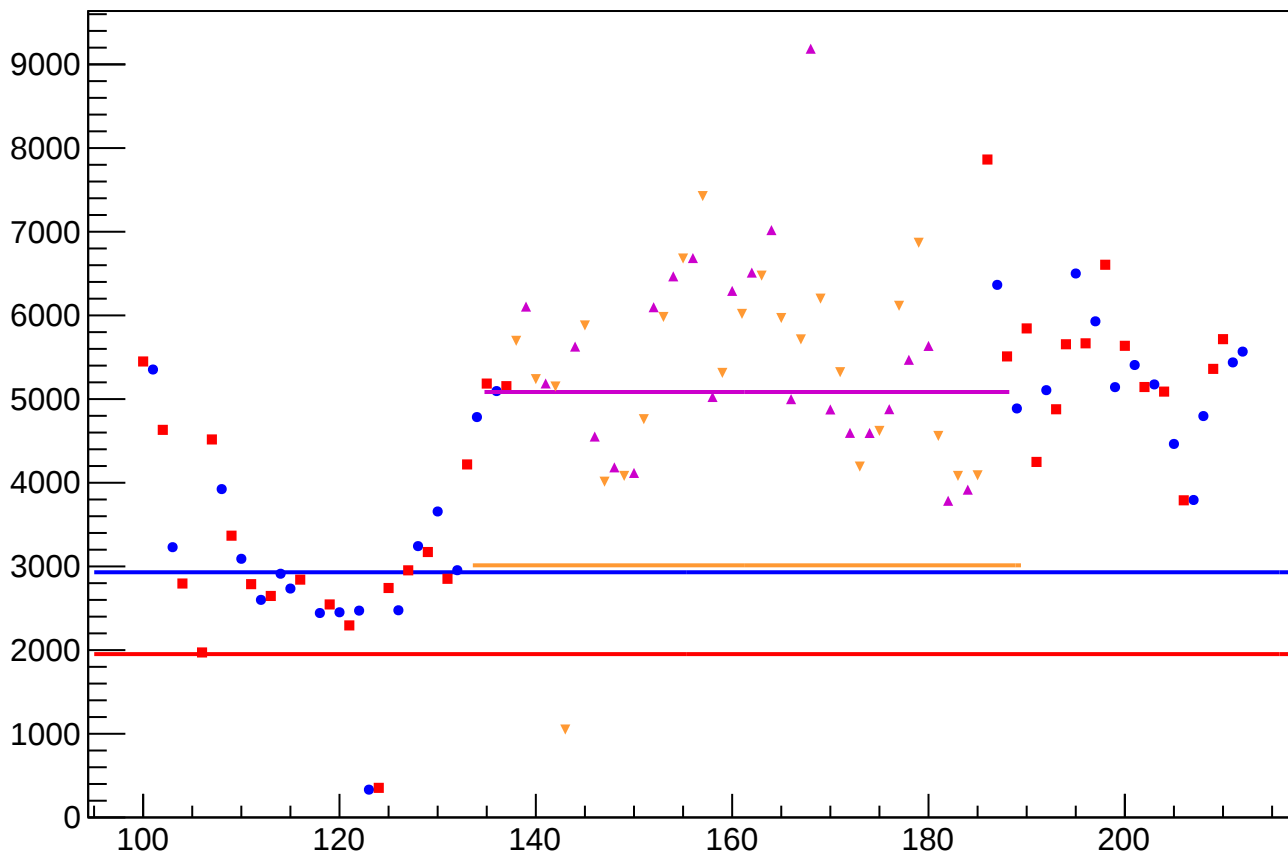
Right: -271.576 ± 528.996 χ^2/NDF : 81.2/62

In: -222.785 ± 710.198 χ^2/NDF : 44.3/52

Out: -614.302 ± 528.985 χ^2/NDF : 84.9/57

All: -474.598 ± 424.236 χ^2/NDF : 129.4/110

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2930.329 $\pm$ 0.612

χ^2/NDF : 8578920.8/29

Left: 3689.075 $\pm$ 0.502

χ^2/NDF : 17314385.8/47

Left Out: 3013.268 $\pm$ 0.612

χ^2/NDF : 12270753.9/24

Right: 2317.804 $\pm$ 0.374

χ^2/NDF : 25831343.4/62

Right Out: 1952.189 $\pm$ 0.473

χ^2/NDF : 15651854.7/32

In: 3633.246 $\pm$ 0.502

χ^2/NDF : 13927916.8/52

Out: 2348.832 $\pm$ 0.374

χ^2/NDF : 29806244.5/57

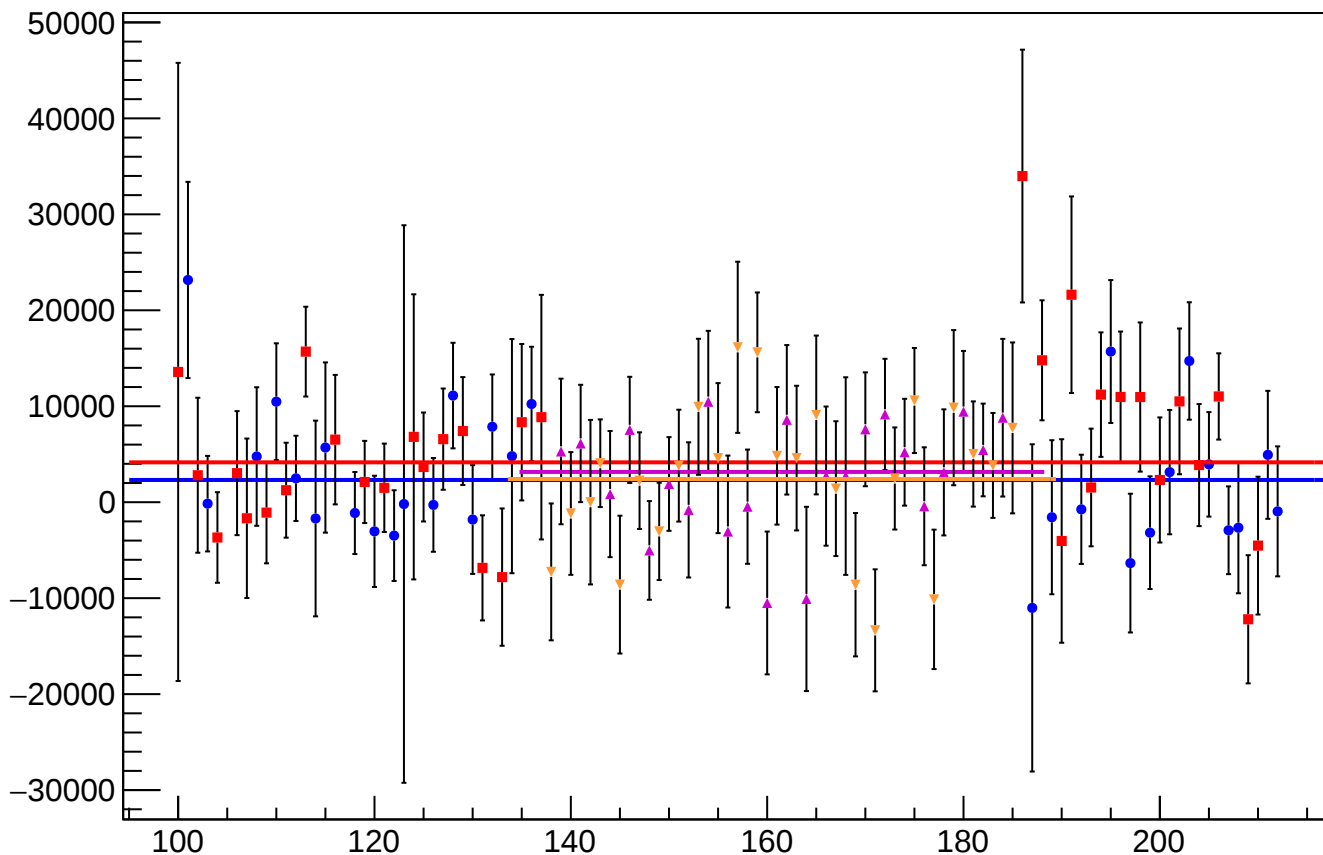
Left In: 5084.645 $\pm$ 0.879

χ^2/NDF : 1303587.7/22

All: 2807.144 $\pm$ 0.300

χ^2/NDF : 47941521.9/131

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2318.048+/-1126.527 χ^2/NDF : 29.0/29

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 4155.148+/-1105.690 χ^2/NDF : 44.5/32

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

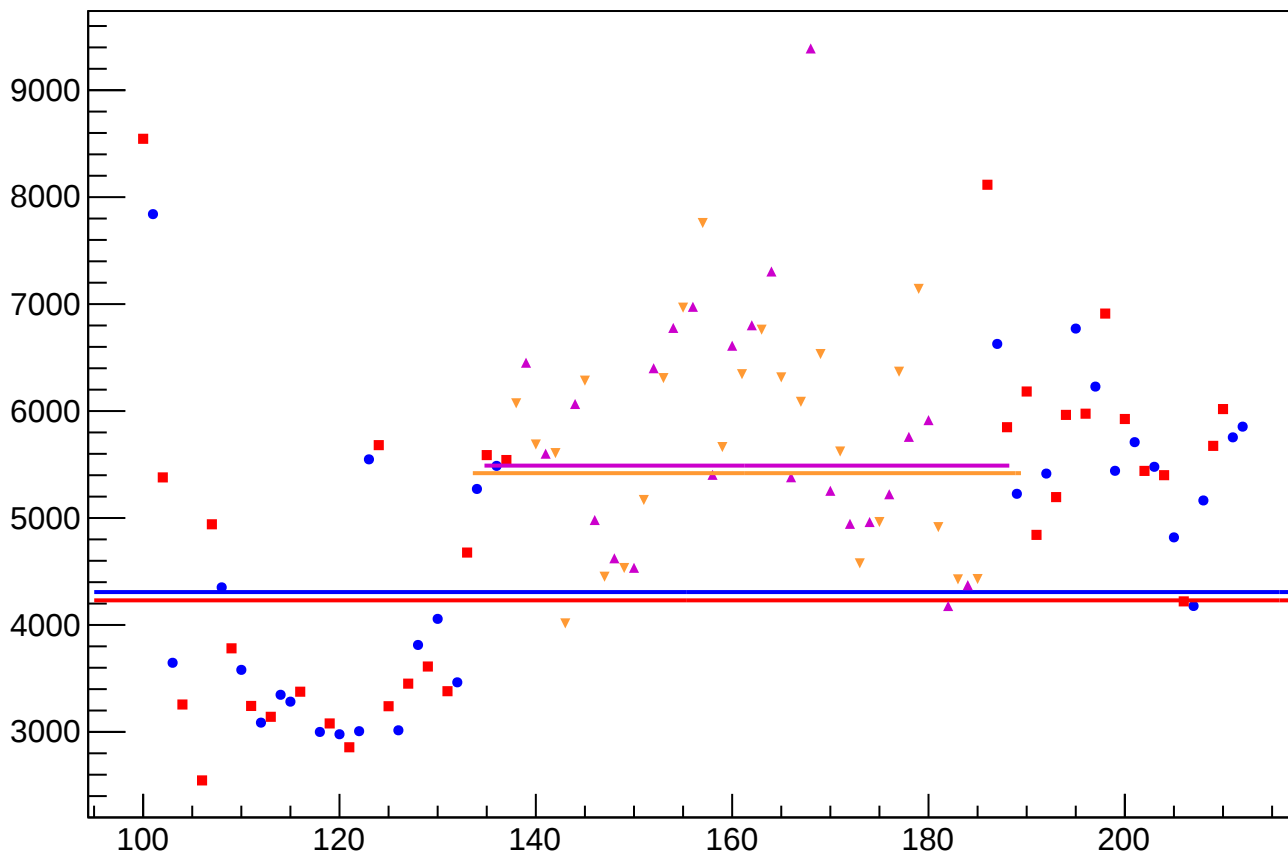
Right: 3253.745+/-789.105 χ^2/NDF : 74.8/62

In: 2664.778+/-861.593 χ^2/NDF : 44.7/52

Out: 3416.781+/-838.538 χ^2/NDF : 75.5/57

All: 3050.975+/-600.922 χ^2/NDF : 120.5/110

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4307.577+/-0.797

χ^2/NDF : 2234300.8/29

Left Out: 5419.305+/-0.910

χ^2/NDF : 1109972.1/24

Right Out: 4230.090+/-0.775

χ^2/NDF : 2649967.4/32

Left In: 5489.885+/-0.946

χ^2/NDF : 1064353.3/22

Left: 5453.227+/-0.656

χ^2/NDF : 2177218.7/47

Right: 4267.760+/-0.555

χ^2/NDF : 4889130.4/62

In: 4798.287+/-0.609

χ^2/NDF : 4212990.9/52

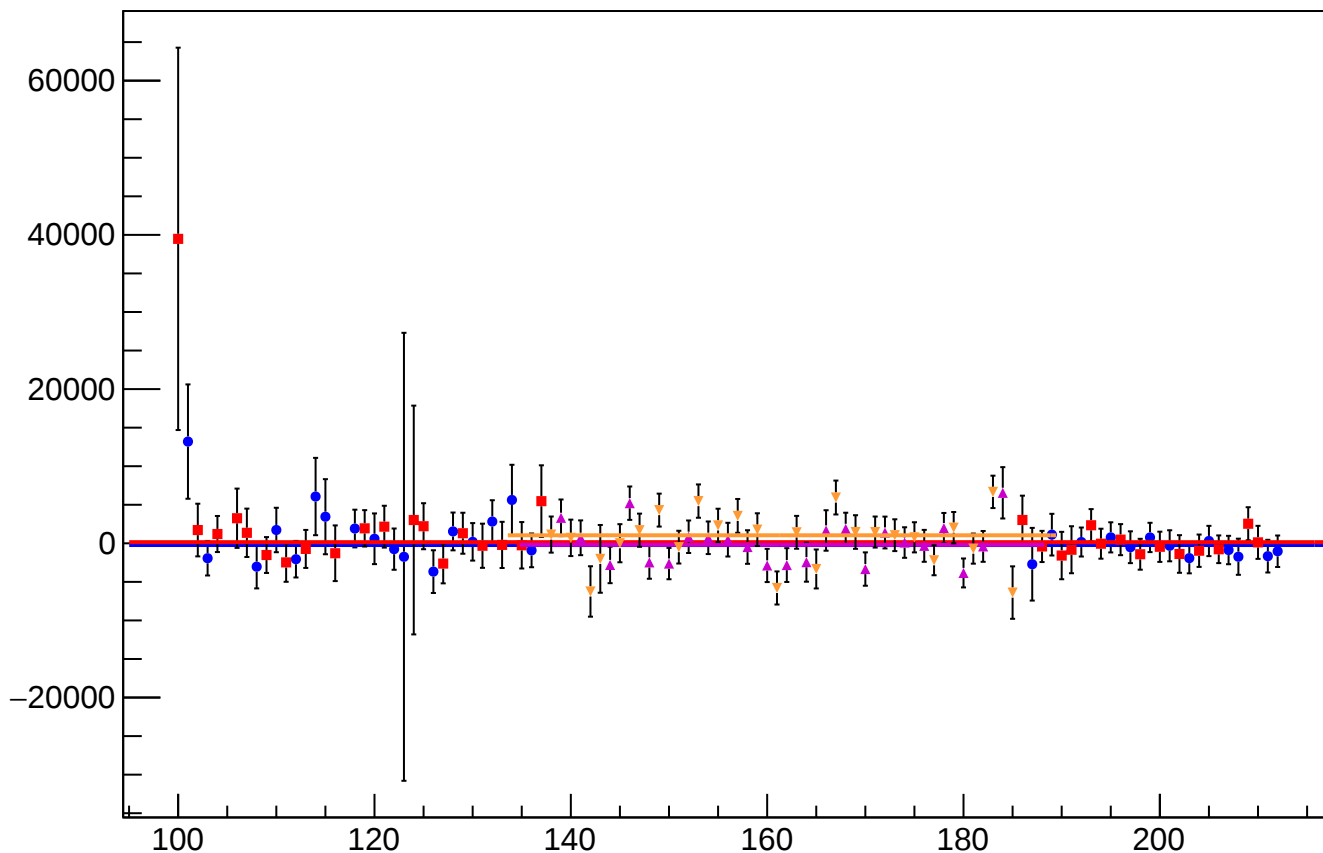
Out: 4730.082+/-0.590

χ^2/NDF : 4750412.5/57

All: 4763.082+/-0.424

χ^2/NDF : 8969872.7/11

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -218.978+/-450.967 χ^2/NDF : 17.0/29

Left Out: 1041.262+/-446.249 χ^2/NDF : 48.6/24

Right Out: 149.895+/-443.318 χ^2/NDF : 15.3/32

Left In: -191.966+/-453.055 χ^2/NDF : 30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

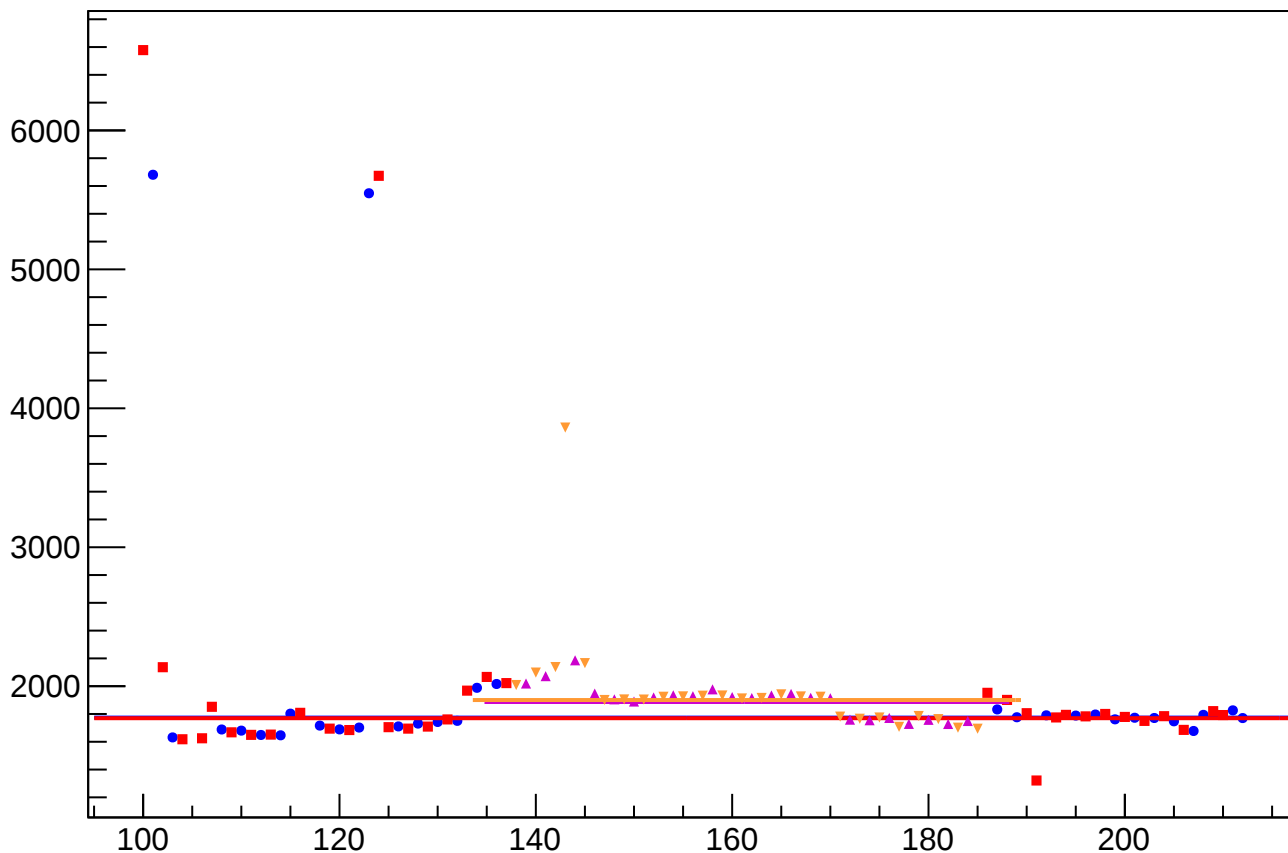
Right: -31.386+/-316.143 χ^2/NDF : 32.7/62

In: -205.535+/-319.617 χ^2/NDF : 47.0/52

Out: 592.641+/-314.504 χ^2/NDF : 65.9/57

All: 199.989+/-224.174 χ^2/NDF : 116.1/110

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1773.888+/-0.319 χ^2/NDF : 651135.0/29

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1769.565+/-0.313 χ^2/NDF : 371263.3/32

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

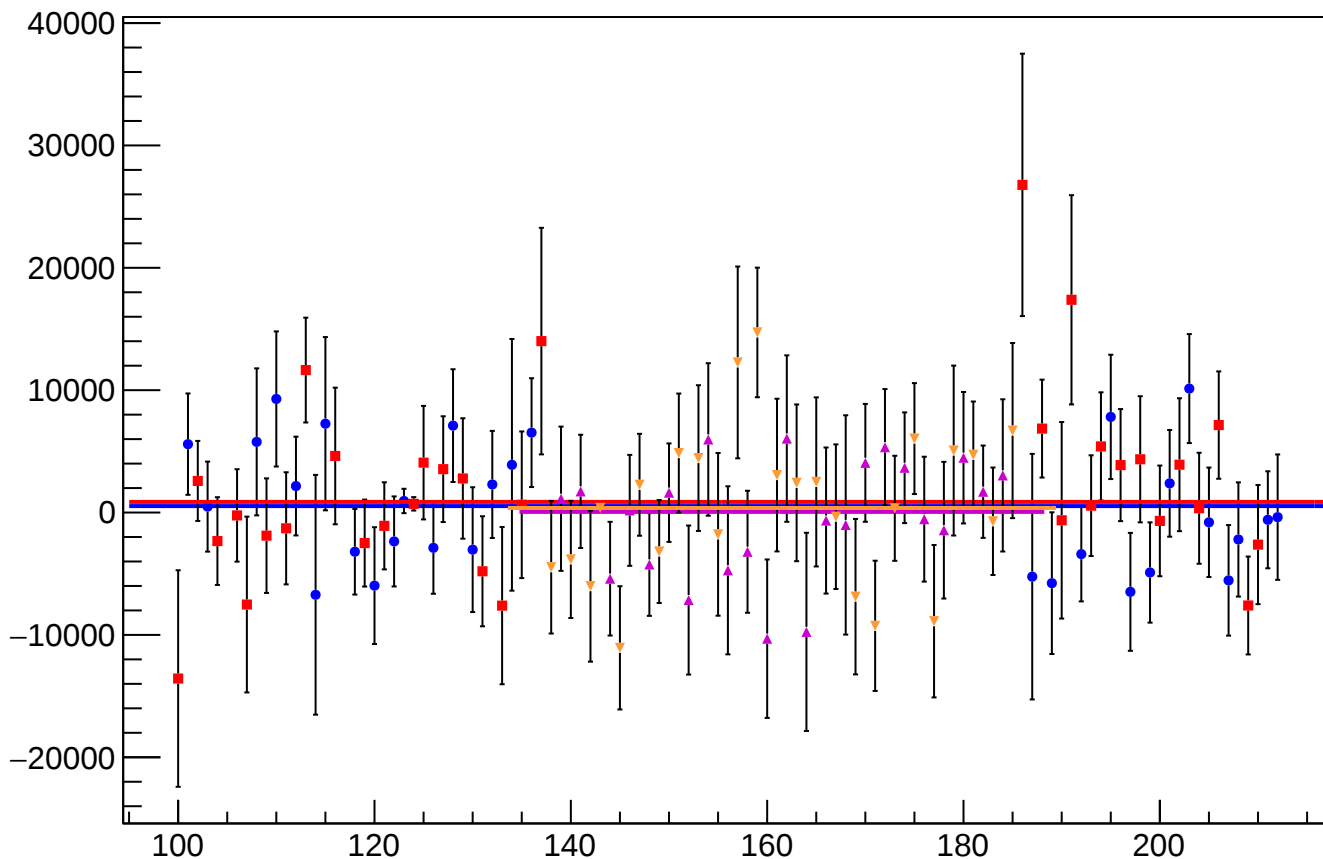
Right: 1771.683+/-0.223 χ^2/NDF : 1022492.1/62

In: 1829.873+/-0.226 χ^2/NDF : 836589.4/52

Out: 1834.310+/-0.222 χ^2/NDF : 995790.7/57

All: 1832.130+/-0.158 χ^2/NDF : 1832576.2/11

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 526.460+/-650.967 χ^2/NDF : 31.3/29

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 868.526+/-457.465 χ^2/NDF : 41.4/32

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

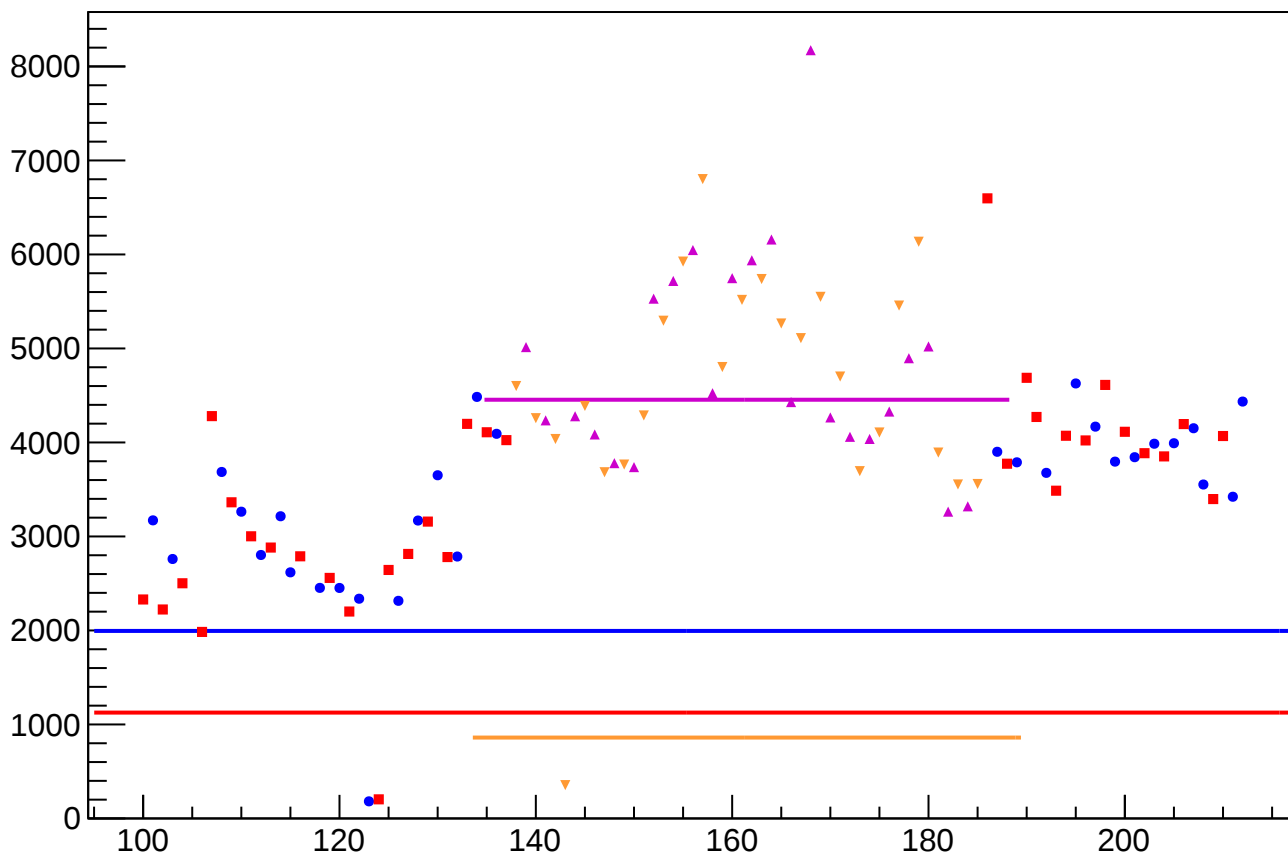
Right: 755.442+/-374.286 χ^2/NDF : 72.9/62

In: 401.994+/-558.870 χ^2/NDF :45.9/52

Out: 576.782+/-293.247 χ^2/NDF :73.0/57

All: 539.048+/-259.671 χ^2/NDF : 119.0/110

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1994.966 $\pm$ 0.460 χ^2 /NDF: 12848917.3/29

Left Out: 860.545 $\pm$ 0.270 χ^2 /NDF: 26340106.5/24

Right Out: 1126.196 $\pm$ 0.323 χ^2 /NDF: 20594598.1/32

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

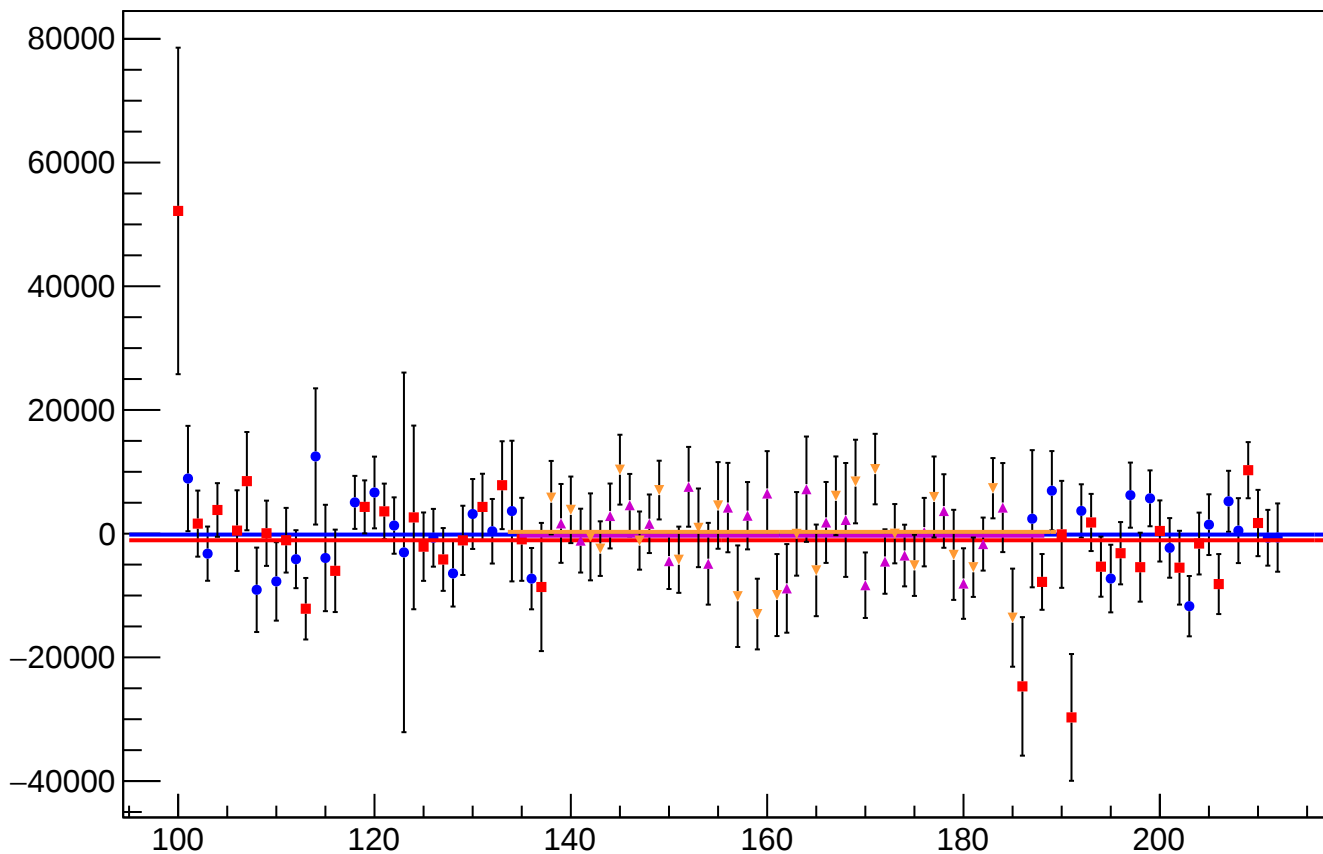
Right: 1413.403 $\pm$ 0.265 χ^2 /NDF: 35828099.8/62

In: 2641.651 $\pm$ 0.395 χ^2 /NDF: 21705221.5/52

Out: 969.705 $\pm$ 0.207 χ^2 /NDF: 47332002.6/57

All: 1330.655 $\pm$ 0.184 χ^2 /NDF: 83072868.7/111

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -147.854 ± 999.378 χ^2/NDF : 28.0/29

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -1068.671 ± 981.378 χ^2/NDF : 44.6/32

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

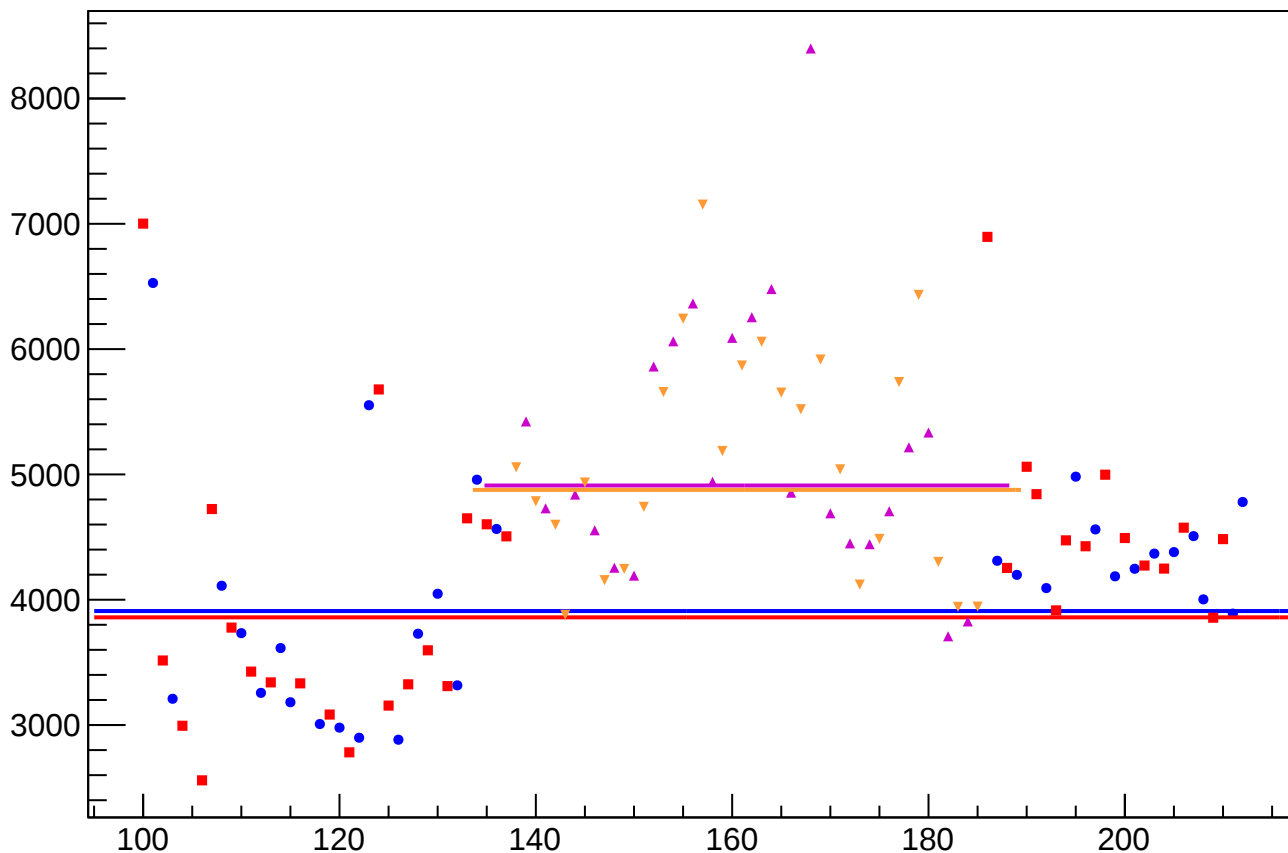
Right: -616.630 ± 700.216 χ^2/NDF : 73.0/62

In: -223.765 ± 766.891 χ^2/NDF : 42.6/52

Out: -499.894 ± 747.983 χ^2/NDF : 77.8/57

All: -365.276 ± 535.464 χ^2/NDF : 120.6/110

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3909.674 $\pm$ 0.707 χ^2 /NDF: 971812.7/29

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF: 972528.1/24

Right Out: 3859.278 $\pm$ 0.689 χ^2 /NDF: 1151769.2/32

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

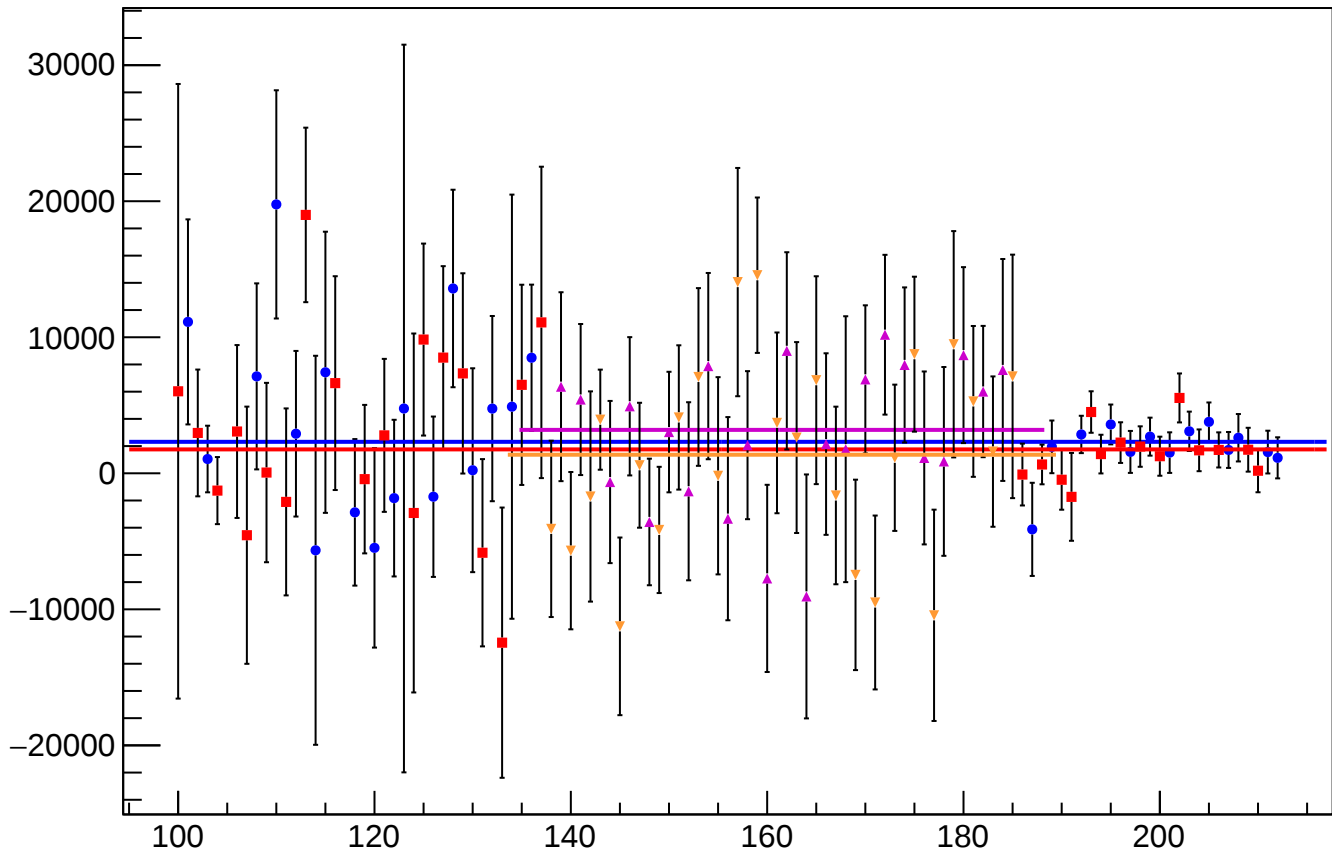
Right: 3883.838 $\pm$ 0.493 χ^2 /NDF: 2126189.1/62

In: 4321.589 $\pm$ 0.542 χ^2 /NDF: 2841381.3/52

Out: 4282.077 $\pm$ 0.527 χ^2 /NDF: 3030314.6/57

All: 4301.258 $\pm$ 0.378 χ^2 /NDF: 5874427.8/111

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2313.221+/-411.040 χ^2/NDF : 21.5/29

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1756.360+/-411.127 χ^2/NDF : 30.0/32

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

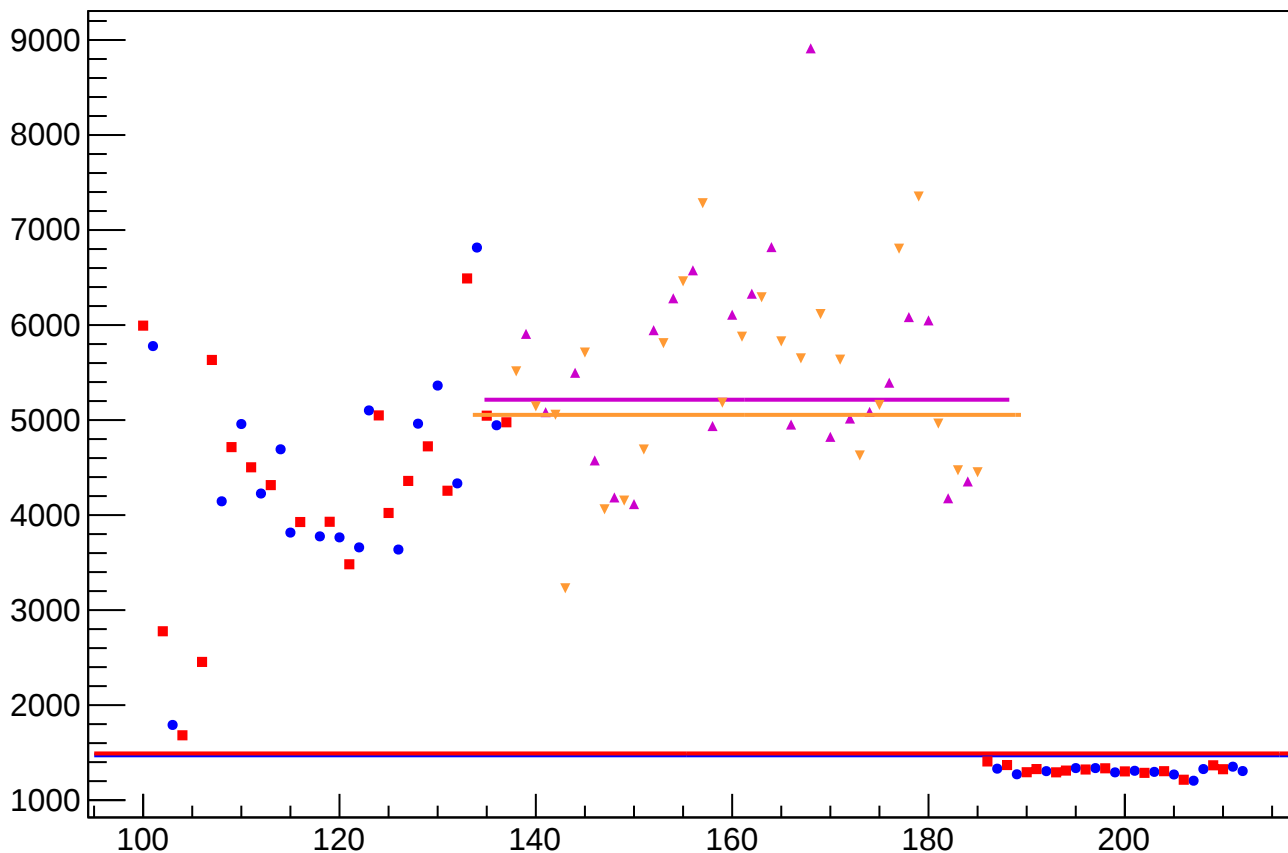
Right: 2034.849+/-290.680 χ^2/NDF : 52.5/62

In: 2396.464+/-391.068 χ^2/NDF : 36.0/52

Out: 1715.639+/-389.146 χ^2/NDF : 58.1/57

All: 2054.374+/-275.845 χ^2/NDF : 95.6/110

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1471.816+/-0.291 χ^2/NDF : 5879430.8/29

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 1491.323+/-0.290 χ^2/NDF : 5785163.1/32

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

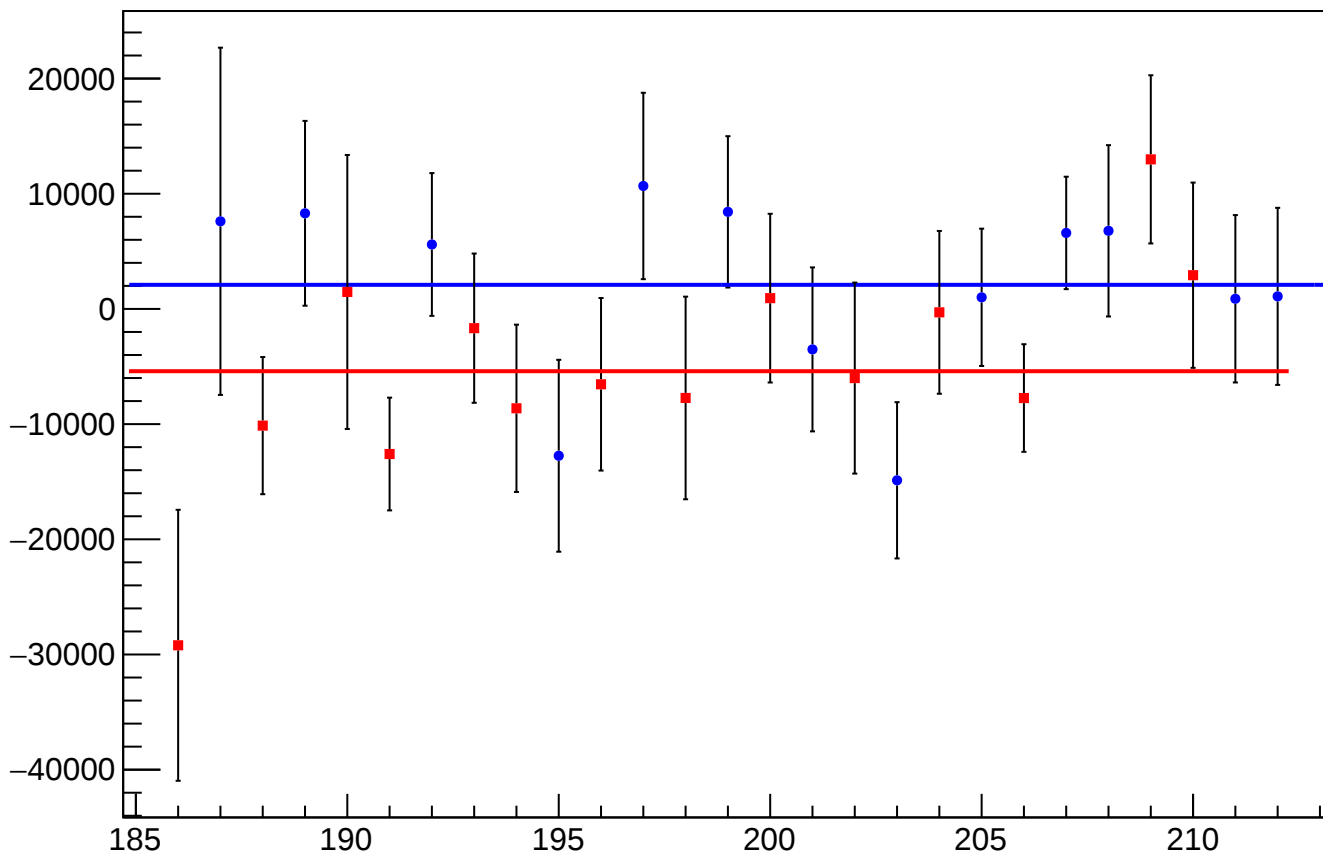
Right: 1481.575+/-0.205 χ^2/NDF : 11666847.5/62

In: 1826.646+/-0.277 χ^2/NDF : 22650866.4/52

Out: 1861.629+/-0.275 χ^2/NDF : 22861639.0/57

All: 1844.236+/-0.195 χ^2/NDF : 45520552.7/113

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 2092.556+/-1944.734 χ^2/NDF : 14.5/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -5406.471+/-1853.596 χ^2/NDF : 16.8/13

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

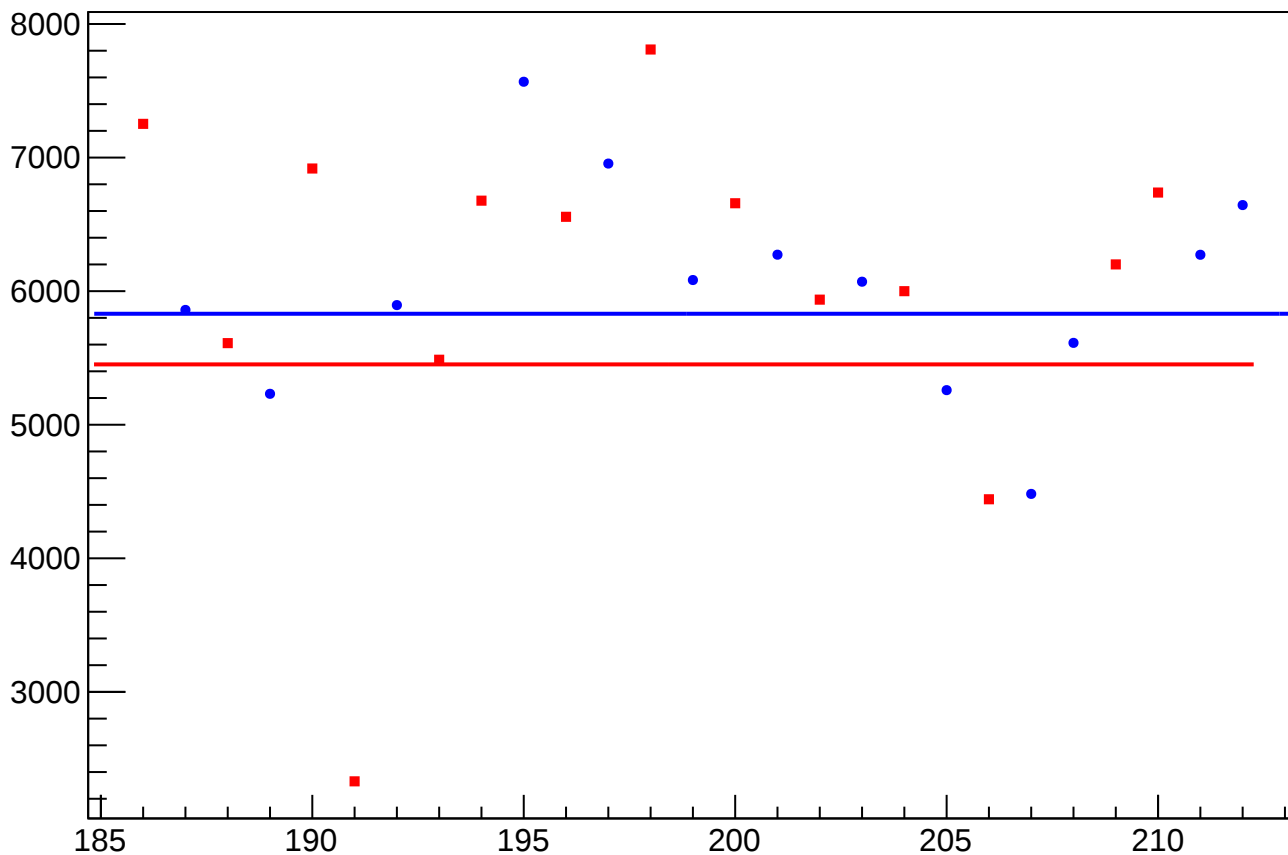
Right: -1836.789+/-1341.753 χ^2/NDF : 39.1/26

In: 2092.556+/-1944.734 χ^2/NDF : 14.5/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -1836.789+/-1341.753 χ^2/NDF : 39.1/26

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5830.788+/-1.375 χ^2/NDF : 352789.6/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5451.775+/-1.311 χ^2/NDF : 1375251.8/13

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

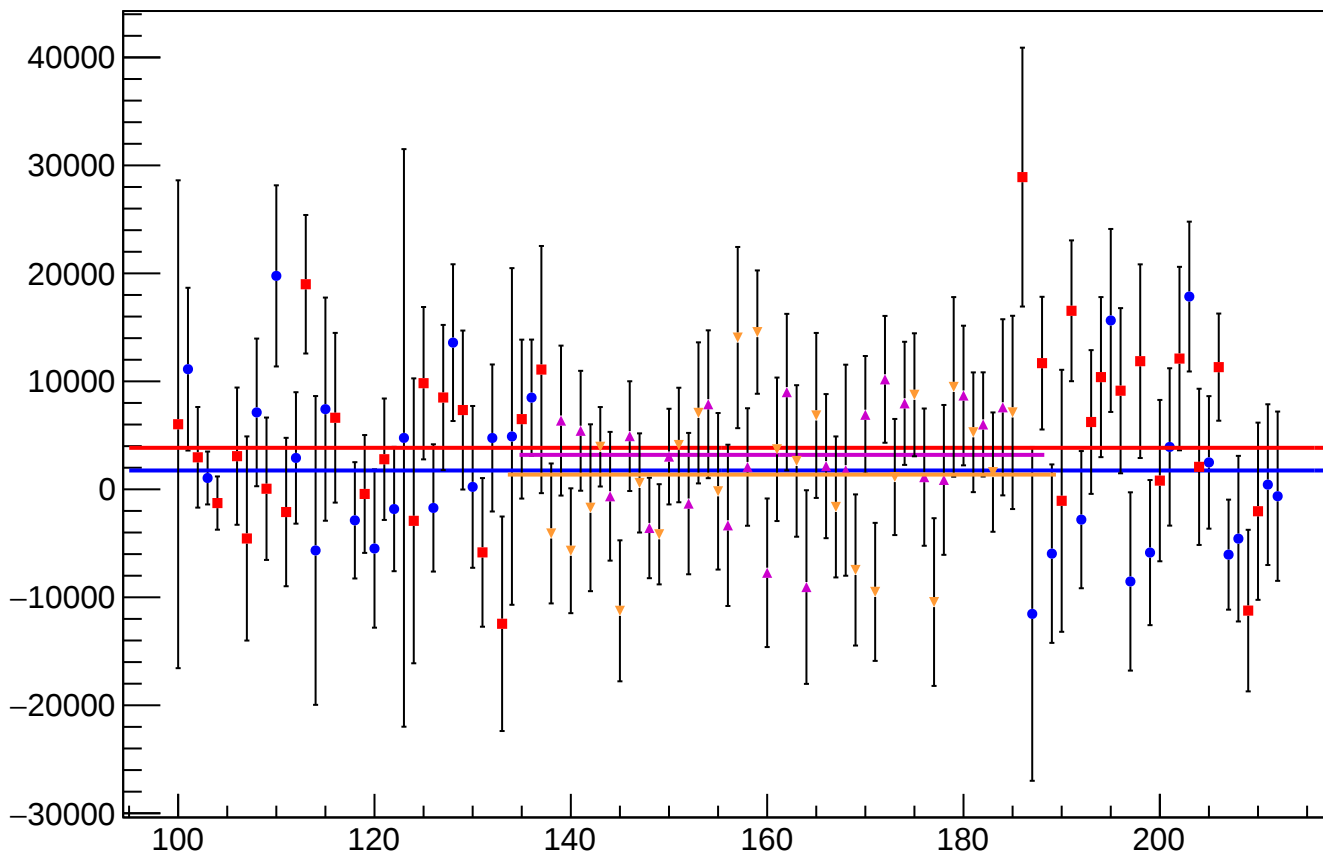
Right: 5632.193+/-0.949 χ^2/NDF : 1767846.1/26

In: 5830.788+/-1.375 χ^2/NDF : 352789.6/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5632.193+/-0.949 χ^2/NDF : 1767846.1/26

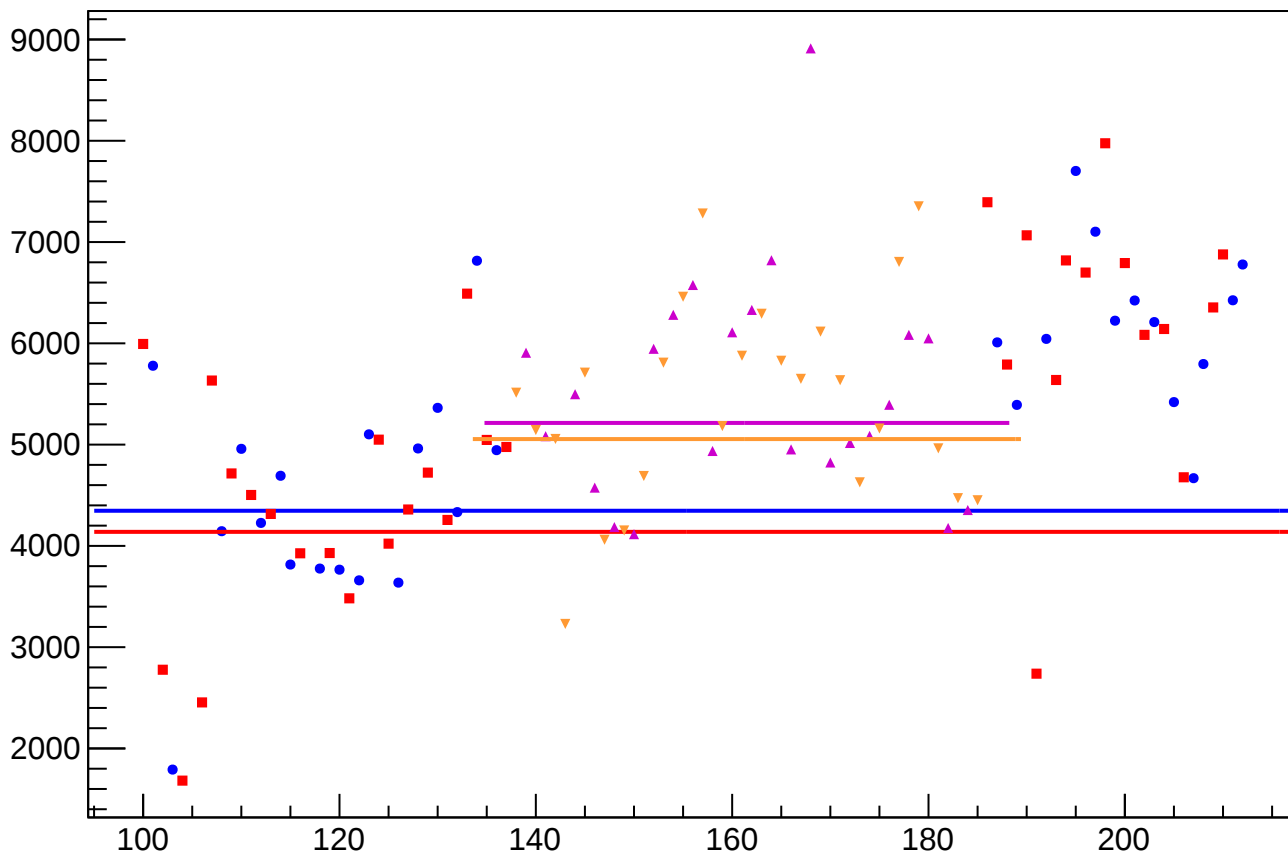
asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1744.701 $\pm$ 1176.799 χ^2 /NDF: 30.7/29
 Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24
 Right Out: 3844.330 $\pm$ 1131.992 χ^2 /NDF: 39.6/32
 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: 2835.247 $\pm$ 815.820 χ^2 /NDF: 72.0/62
 In: 2412.901 $\pm$ 863.199 χ^2 /NDF:45.4/52
 Out: 2683.380 $\pm$ 825.449 χ^2 /NDF:69.8/57
 All: 2554.184 $\pm$ 596.580 χ^2 /NDF: 115.3/110

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4346.934+/-0.832 χ^2/NDF : 4175819.6/29

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 4138.638+/-0.795 χ^2/NDF : 5033788.6/32

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

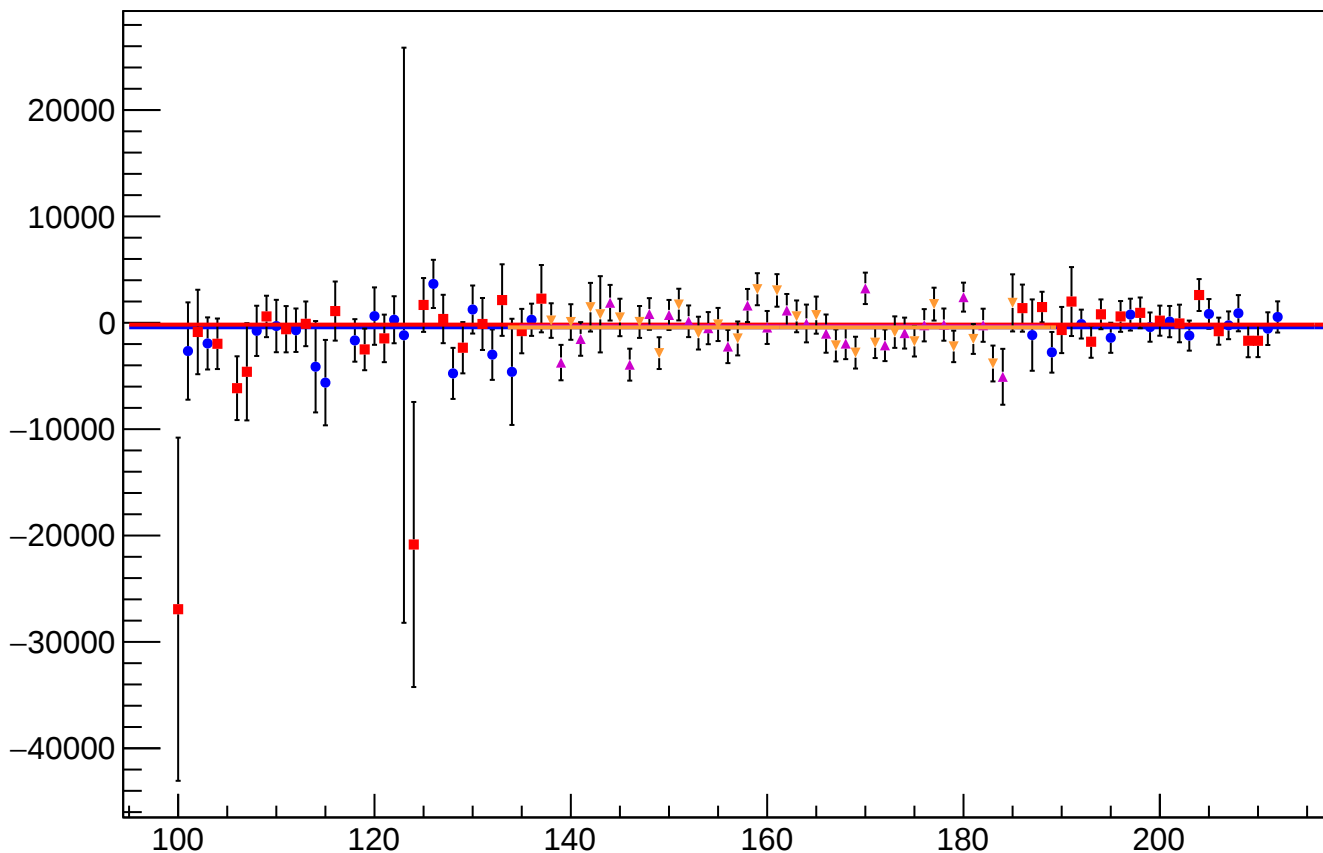
Right: 4238.103+/-0.575 χ^2/NDF : 9242348.1/62

In: 4747.529+/-0.610 χ^2/NDF : 5730035.5/52

Out: 4564.779+/-0.582 χ^2/NDF : 7087905.7/57

All: 4651.770+/-0.421 χ^2/NDF : 12864914.6/1

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -421.985+/-345.013 χ^2/NDF : 17.9/29

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -172.181+/-344.382 χ^2/NDF : 25.8/32

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

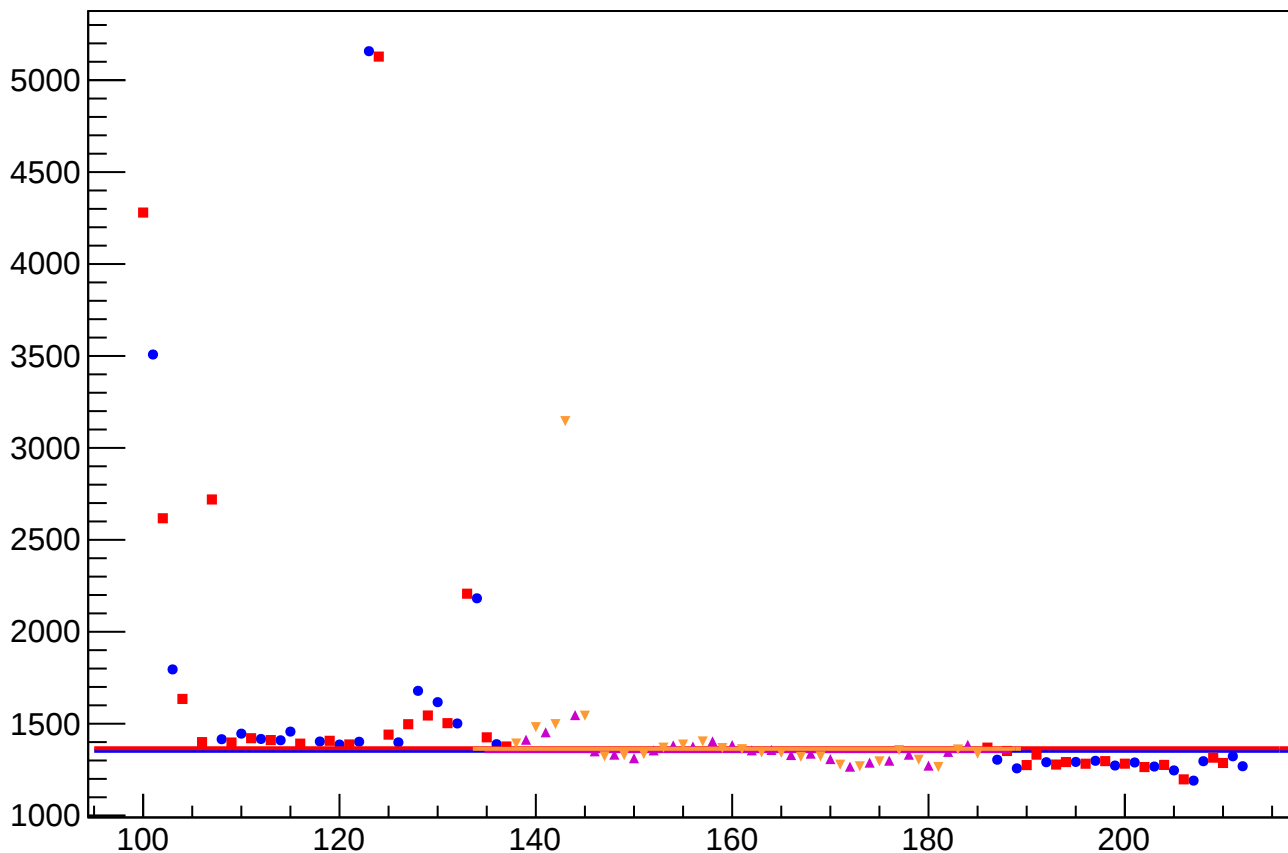
Right: -296.854+/-243.738 χ^2/NDF : 44.0/62

In: -380.450+/-236.325 χ^2/NDF :51.7/52

Out: -311.242+/-234.632 χ^2/NDF :59.2/57

All: -345.597+/-166.505 χ^2/NDF : 111.0/110

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1352.707 $\pm$ 0.244 χ^2 /NDF: 774498.3/29

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1366.567 $\pm$ 0.244 χ^2 /NDF: 870419.4/32

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

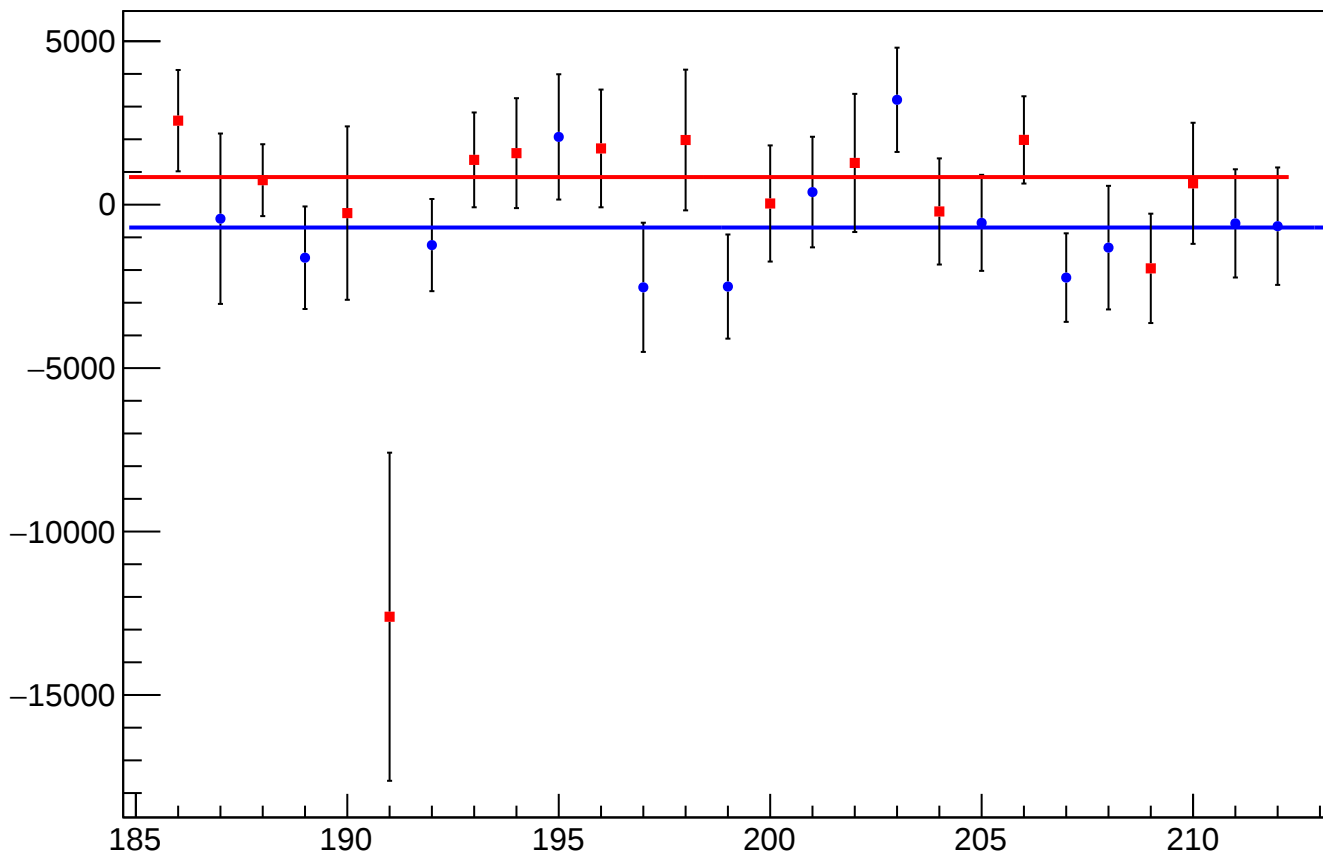
Right: 1359.650 $\pm$ 0.172 χ^2 /NDF: 1646534.7/62

In: 1351.752 $\pm$ 0.167 χ^2 /NDF: 841671.6/52

Out: 1364.957 $\pm$ 0.166 χ^2 /NDF: 1445727.7/57

All: 1358.402 $\pm$ 0.118 χ^2 /NDF: 2290543.6/111

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -699.102+/-462.019 χ^2/NDF : 12.5/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 843.970+/-451.348 χ^2/NDF : 13.6/13

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

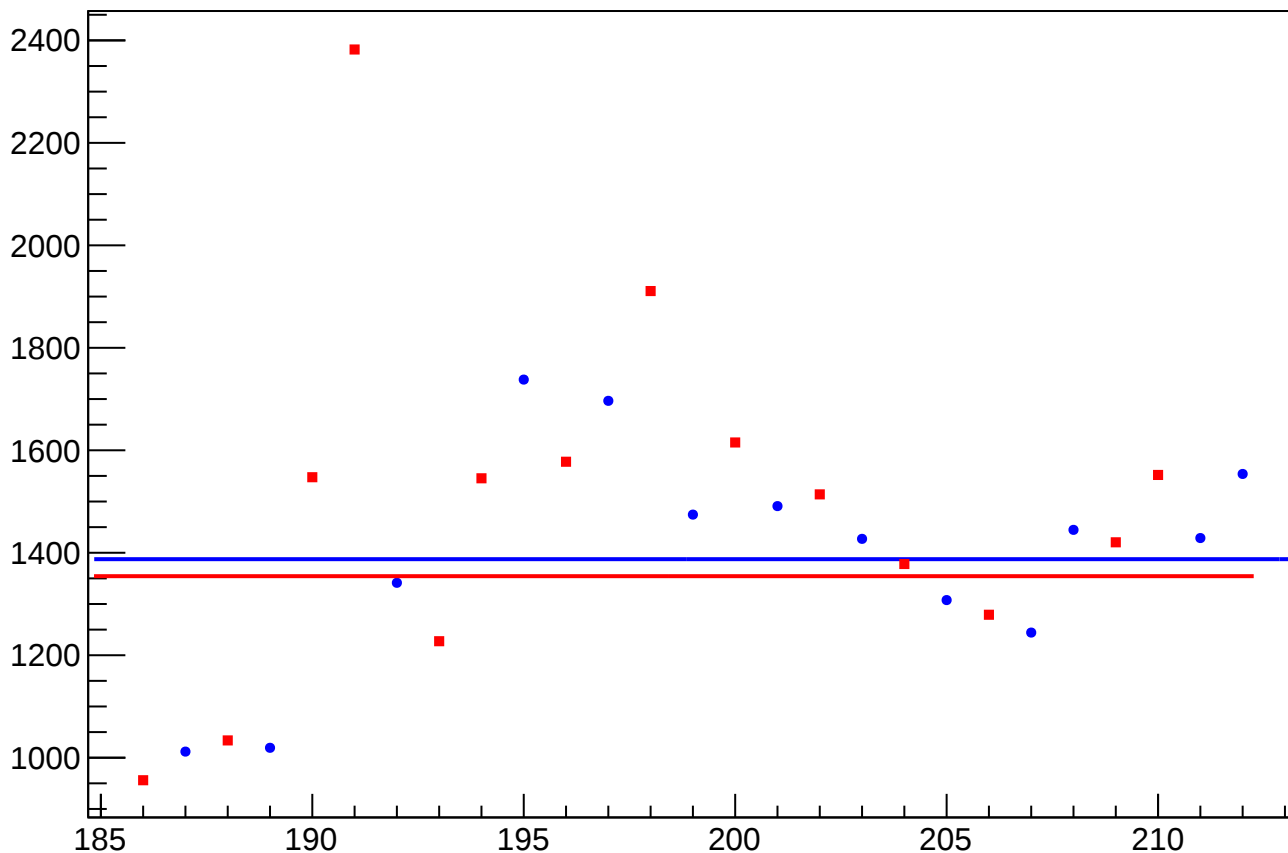
Right: 90.458+/-322.858 χ^2/NDF : 31.9/26

In: -699.102+/-462.019 χ^2/NDF : 12.5/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 90.458+/-322.858 χ^2/NDF : 31.9/26

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1387.496 $\pm$ 0.327 χ^2 /NDF: 332827.9/12

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: 1354.304 $\pm$ 0.319 χ^2 /NDF: 689337.8/13

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

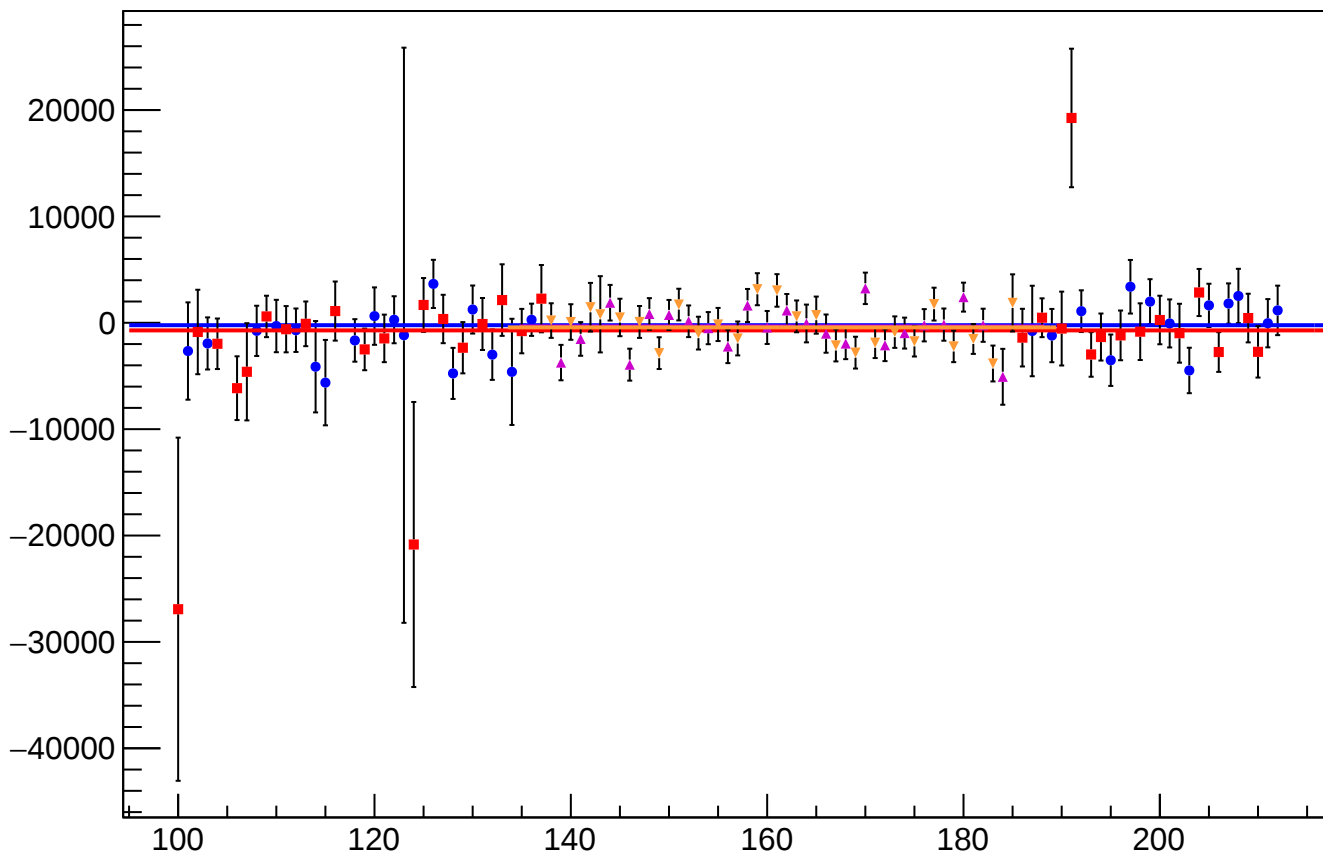
Right: 1370.512 $\pm$ 0.228 χ^2 /NDF: 1027447.4/26

In: 1387.496 $\pm$ 0.327 χ^2 /NDF:332827.9/12

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 1370.512 $\pm$ 0.228 χ^2 /NDF: 1027447.4/26

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -226.958+/-437.554 χ^2/NDF : 26.5/29

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -714.213+/-435.011 χ^2/NDF : 30.5/32

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

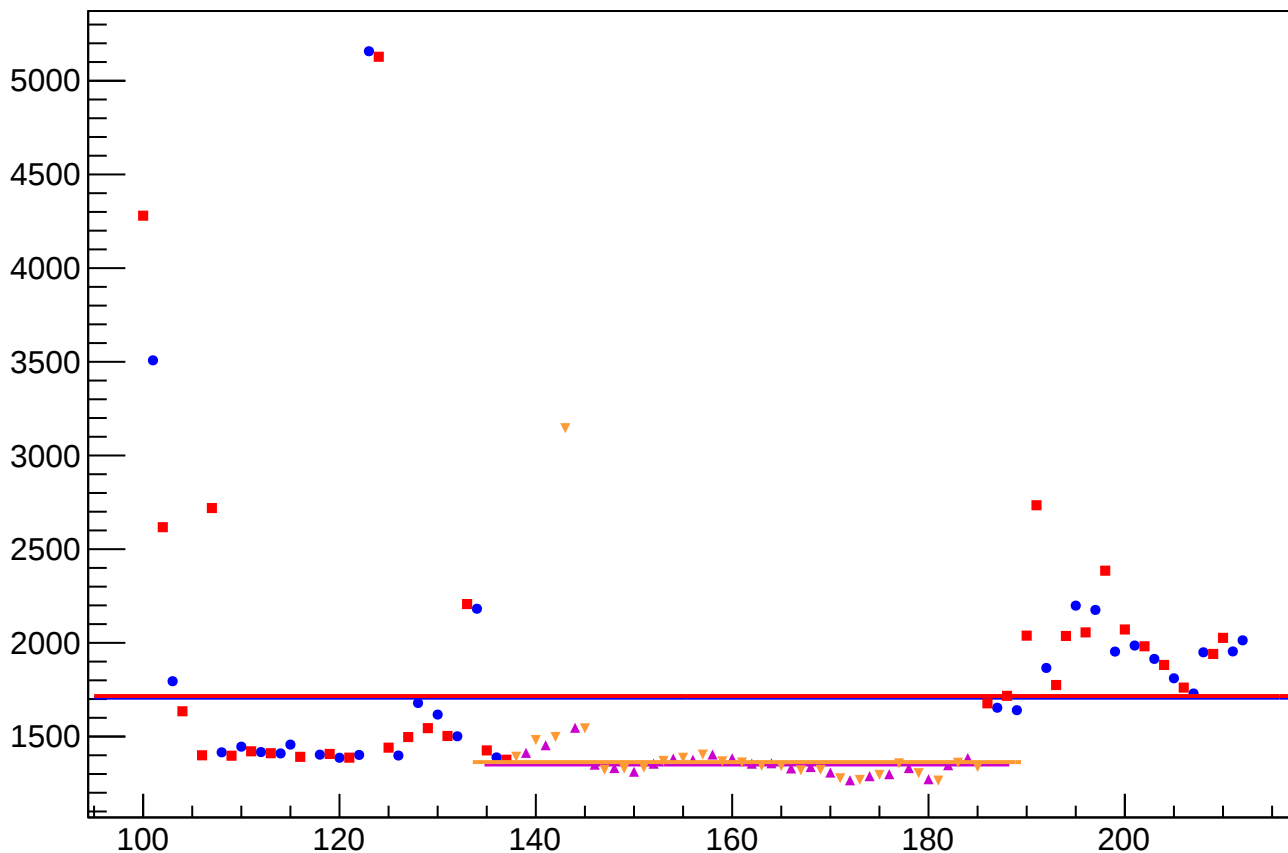
Right: -472.005+/-308.494 χ^2/NDF : 57.6/62

In: -302.321+/-260.576 χ^2/NDF :60.3/52

Out: -531.124+/-258.051 χ^2/NDF :63.8/57

All: -417.836+/-183.356 χ^2/NDF : 124.5/110

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1707.518 $\pm$ 0.309 χ^2 /NDF: 1055780.3/29

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1716.152 $\pm$ 0.308 χ^2 /NDF: 1239500.3/32

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

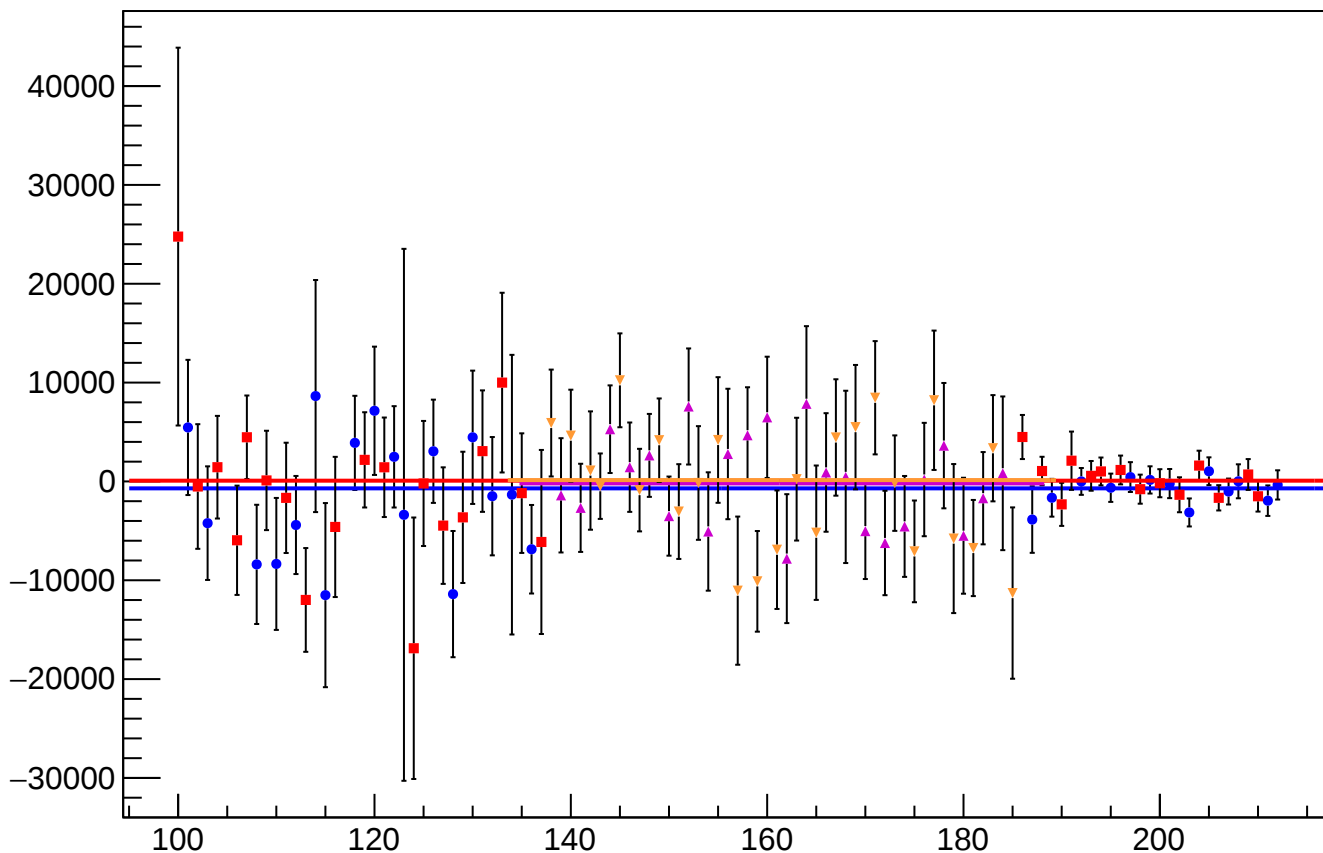
Right: 1711.860 $\pm$ 0.218 χ^2 /NDF: 2295672.2/62

In: 1477.382 $\pm$ 0.184 χ^2 /NDF: 1980248.0/52

Out: 1487.636 $\pm$ 0.182 χ^2 /NDF: 2666296.8/57

All: 1482.559 $\pm$ 0.130 χ^2 /NDF: 4648108.4/111

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -702.302 ± 406.452 χ^2/NDF : 23.2/29

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: 75.474 ± 404.571 χ^2/NDF : 26.8/32

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

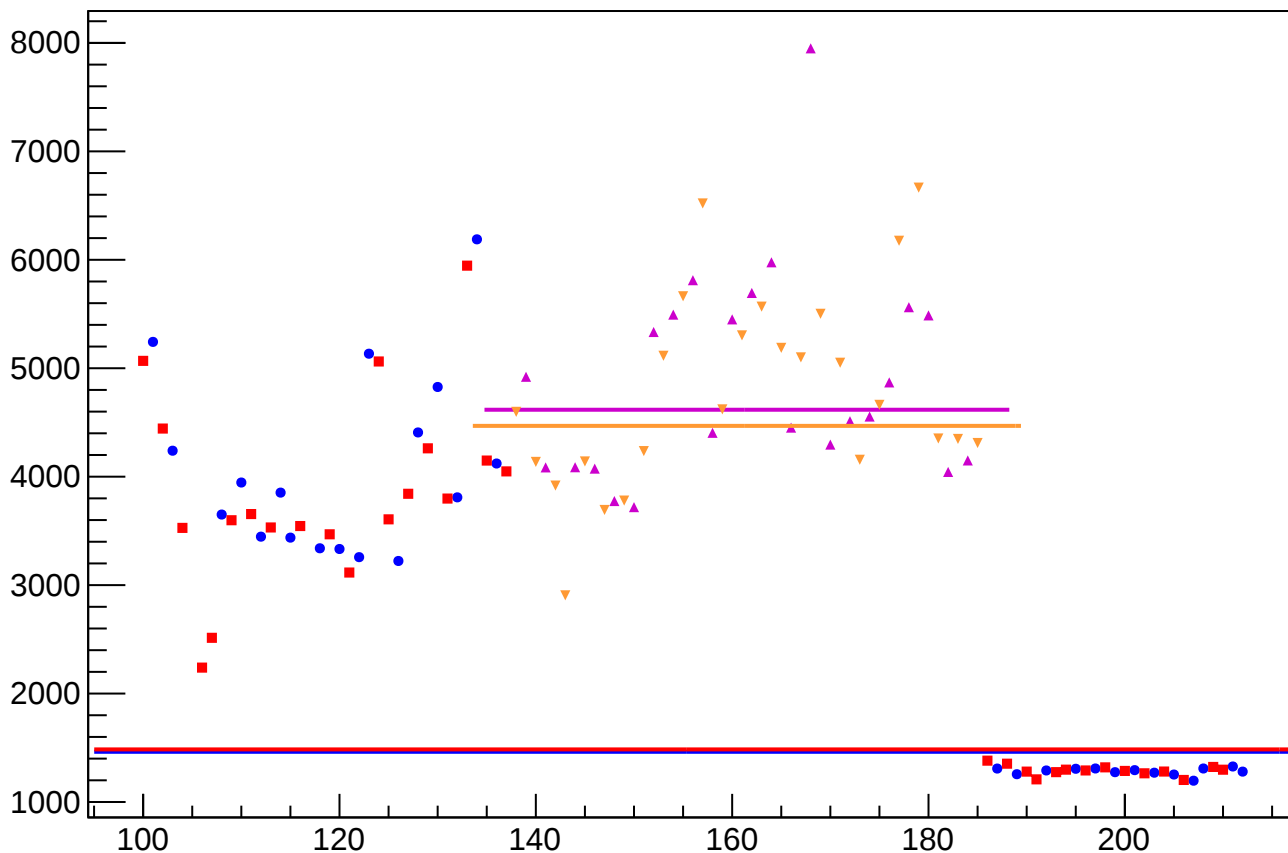
Right: -311.610 ± 286.738 χ^2/NDF : 51.8/62

In: -644.190 ± 382.209 χ^2/NDF : 38.1/52

Out: 82.614 ± 378.226 χ^2/NDF : 54.9/57

All: -276.981 ± 268.843 χ^2/NDF : 94.8/110

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1463.022+/-0.287 χ^2/NDF : 5648894.9/29

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 1484.952+/-0.286 χ^2/NDF : 5455857.2/32

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

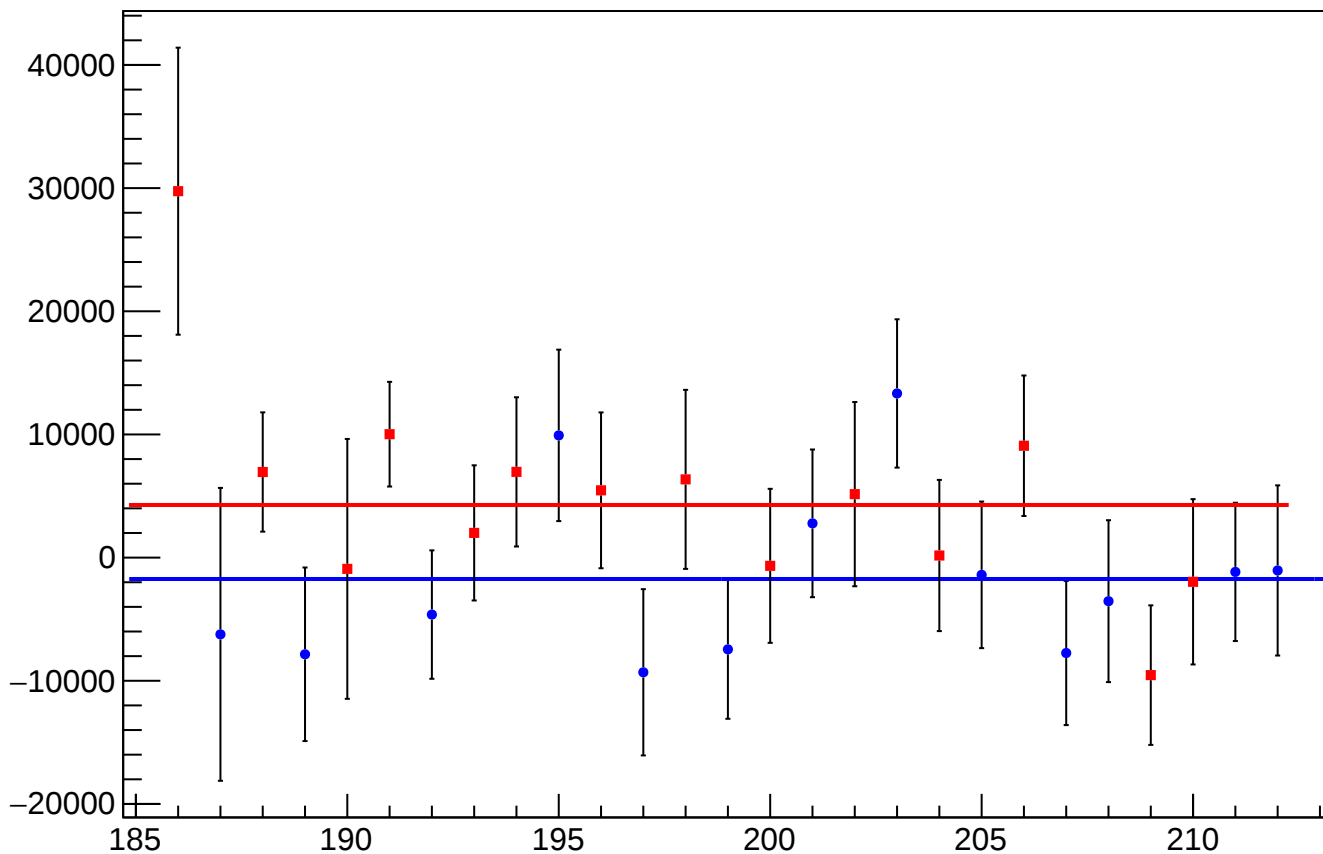
Right: 1474.046+/-0.203 χ^2/NDF : 11107678.9/62

In: 1828.073+/-0.270 χ^2/NDF : 20588599.8/52

Out: 1860.350+/-0.267 χ^2/NDF : 20544011.4/57

All: 1844.392+/-0.190 χ^2/NDF : 41139822.4/100

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -1736.065+/-1749.463 χ^2/NDF : 14.3/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4273.047+/-1637.754 χ^2/NDF : 16.2/13

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

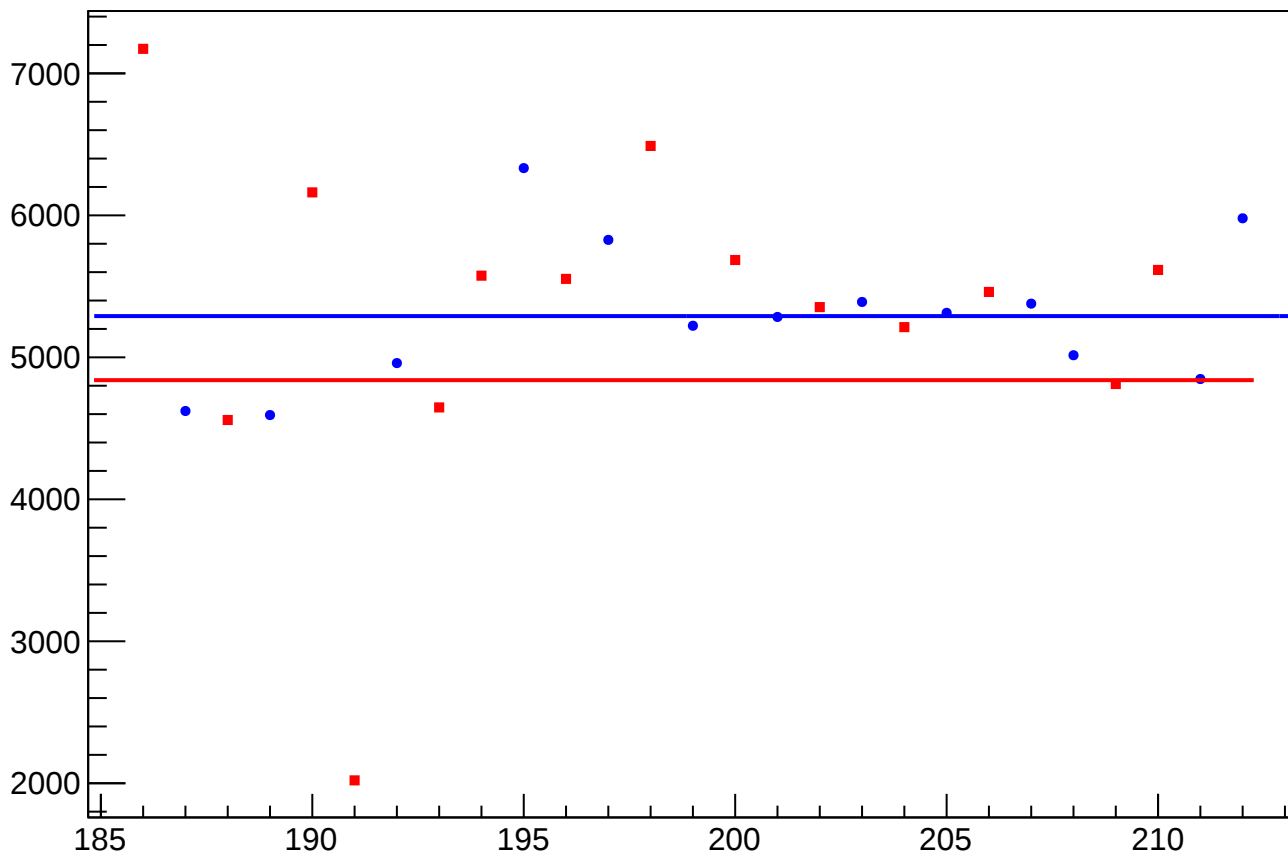
Right: 1466.454+/-1195.610 χ^2/NDF : 36.8/26

In: -1736.065+/-1749.463 χ^2/NDF : 14.3/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1466.454+/-1195.610 χ^2/NDF : 36.8/26

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5290.474+/-1.237 χ^2/NDF : 128654.1/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4839.264+/-1.158 χ^2/NDF : 1262803.5/13

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

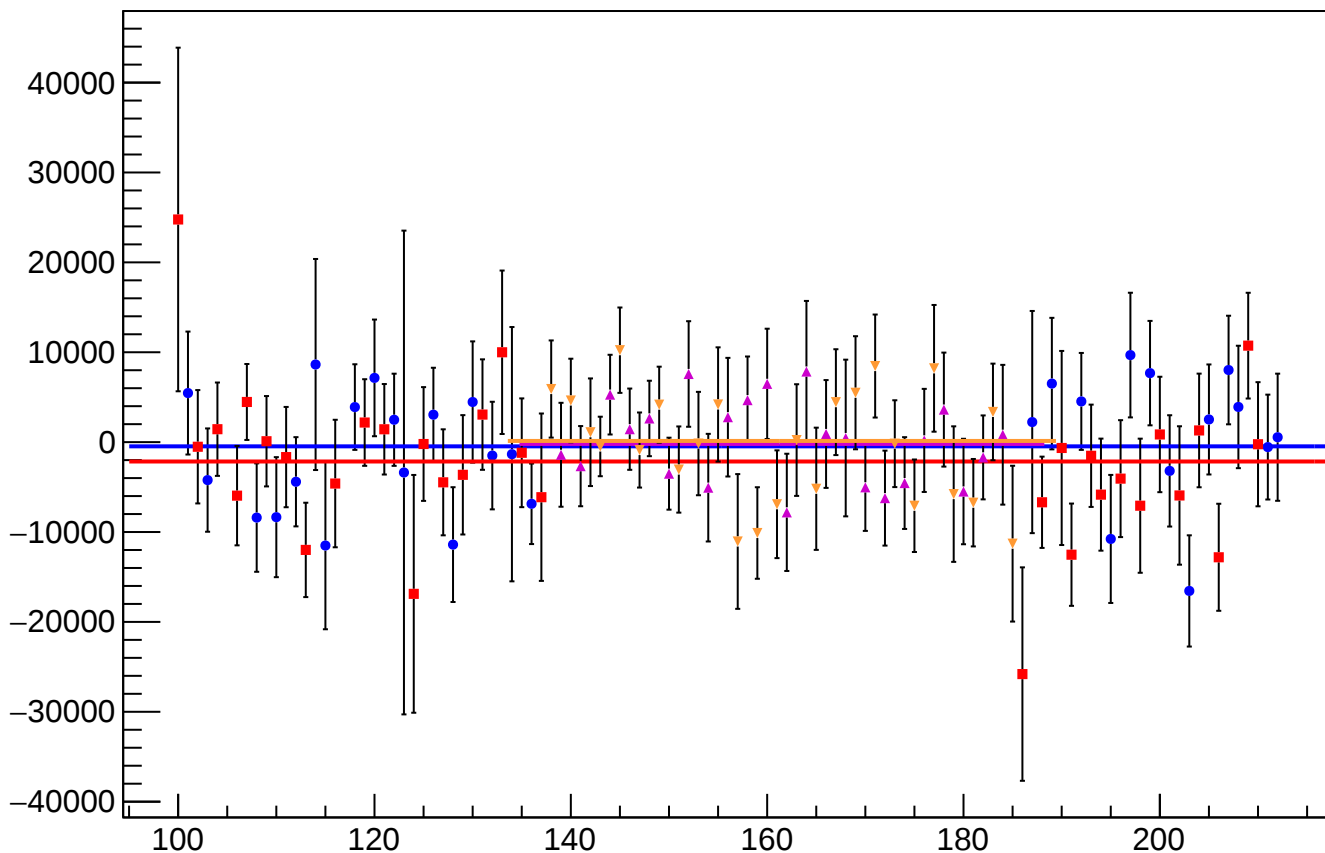
Right: 5050.004+/-0.845 χ^2/NDF : 1462359.8/26

In: 5290.474+/-1.237 χ^2/NDF : 128654.1/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5050.004+/-0.845 χ^2/NDF : 1462359.8/26

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -468.309 $\pm$ 1161.574 χ^2 /NDF: 33.1/29

Left Out: 132.142 $\pm$ 1065.543 χ^2 /NDF:28.1/24

Right Out: -2153.532 $\pm$ 1083.697 χ^2 /NDF: 32.7/32

Left In: -200.182 $\pm$ 1123.499 χ^2 /NDF:14.7/22

Left: -25.227 $\pm$ 773.130 χ^2 /NDF: 42.9/47

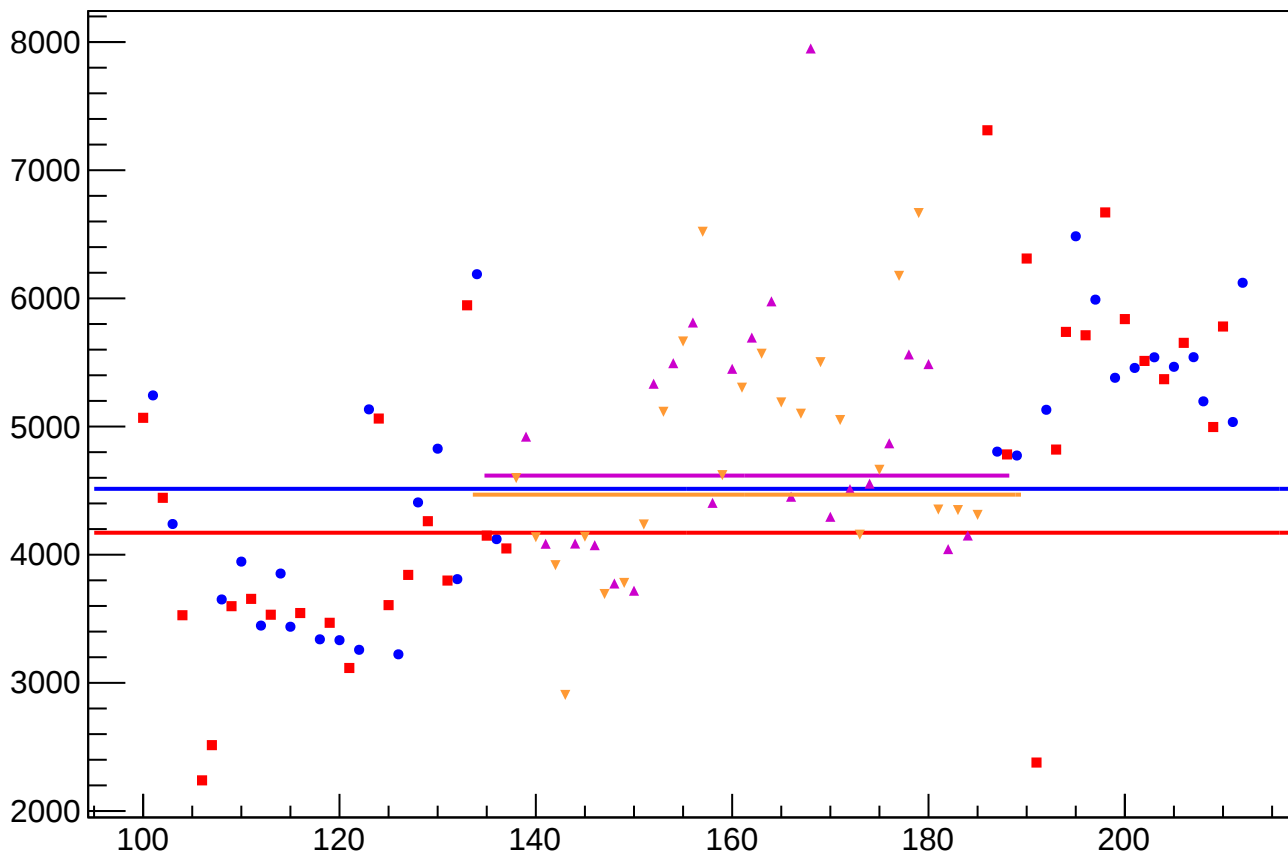
Right: -1369.302 $\pm$ 792.392 χ^2 /NDF: 66.9/62

In: -329.779 $\pm$ 807.559 χ^2 /NDF:47.9/52

Out: -991.390 $\pm$ 759.790 χ^2 /NDF:63.1/57

All: -680.730 $\pm$ 553.370 χ^2 /NDF: 111.3/110

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4513.951 $\pm$ 0.821 χ^2 /NDF: 1380476.0/29

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF:1380601.0/24

Right Out: 4171.431 $\pm$ 0.762 χ^2 /NDF: 2471977.8/32

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

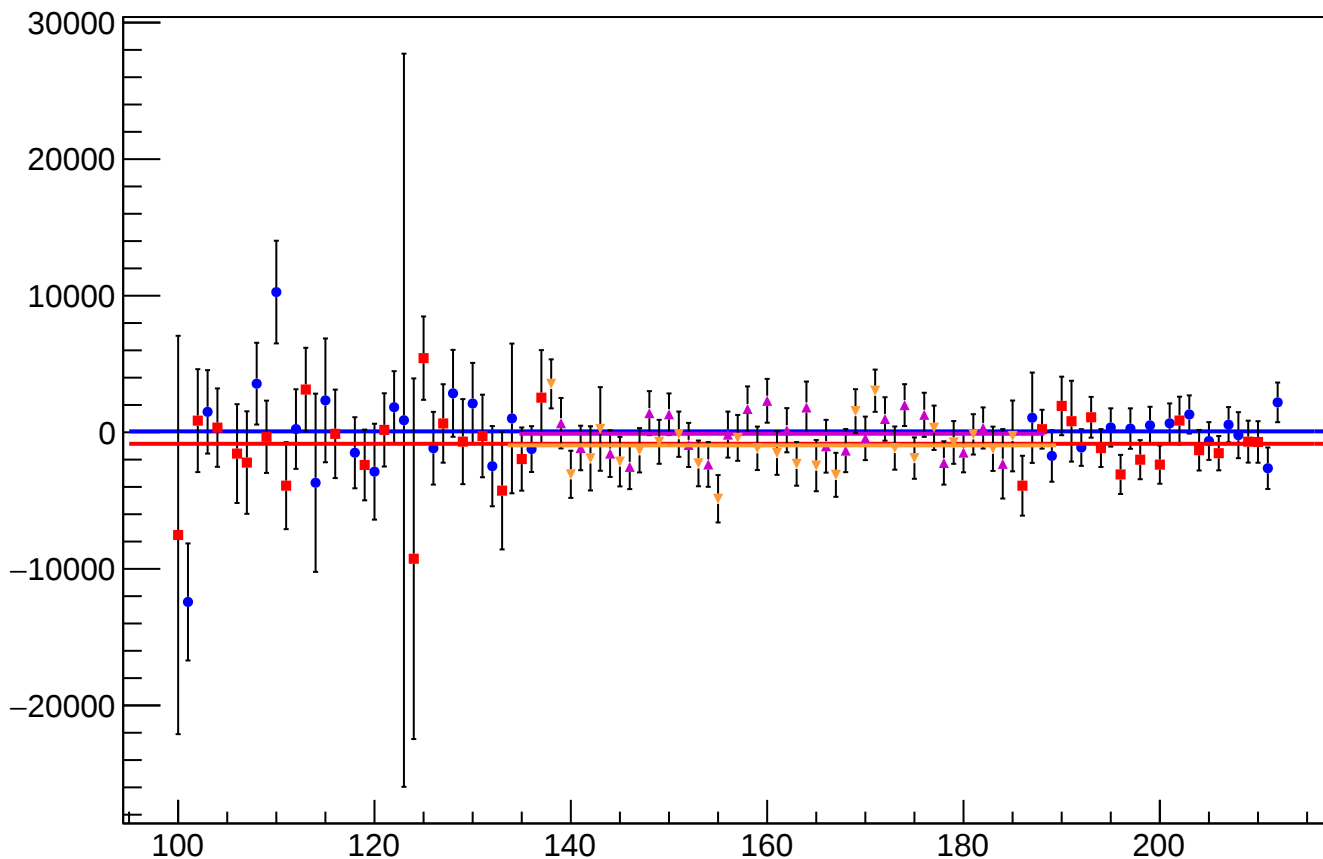
Right: 4329.861 $\pm$ 0.559 χ^2 /NDF: 3945922.7/62

In: 4567.343 $\pm$ 0.571 χ^2 /NDF:2388254.8/52

Out: 4321.642 $\pm$ 0.536 χ^2 /NDF:3929444.1/57

All: 4436.669 $\pm$ 0.391 χ^2 /NDF: 6416164.1/111

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 68.062 ± 363.649 χ^2/NDF : 31.0/29

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -841.505 ± 362.576 χ^2/NDF : 22.6/32

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

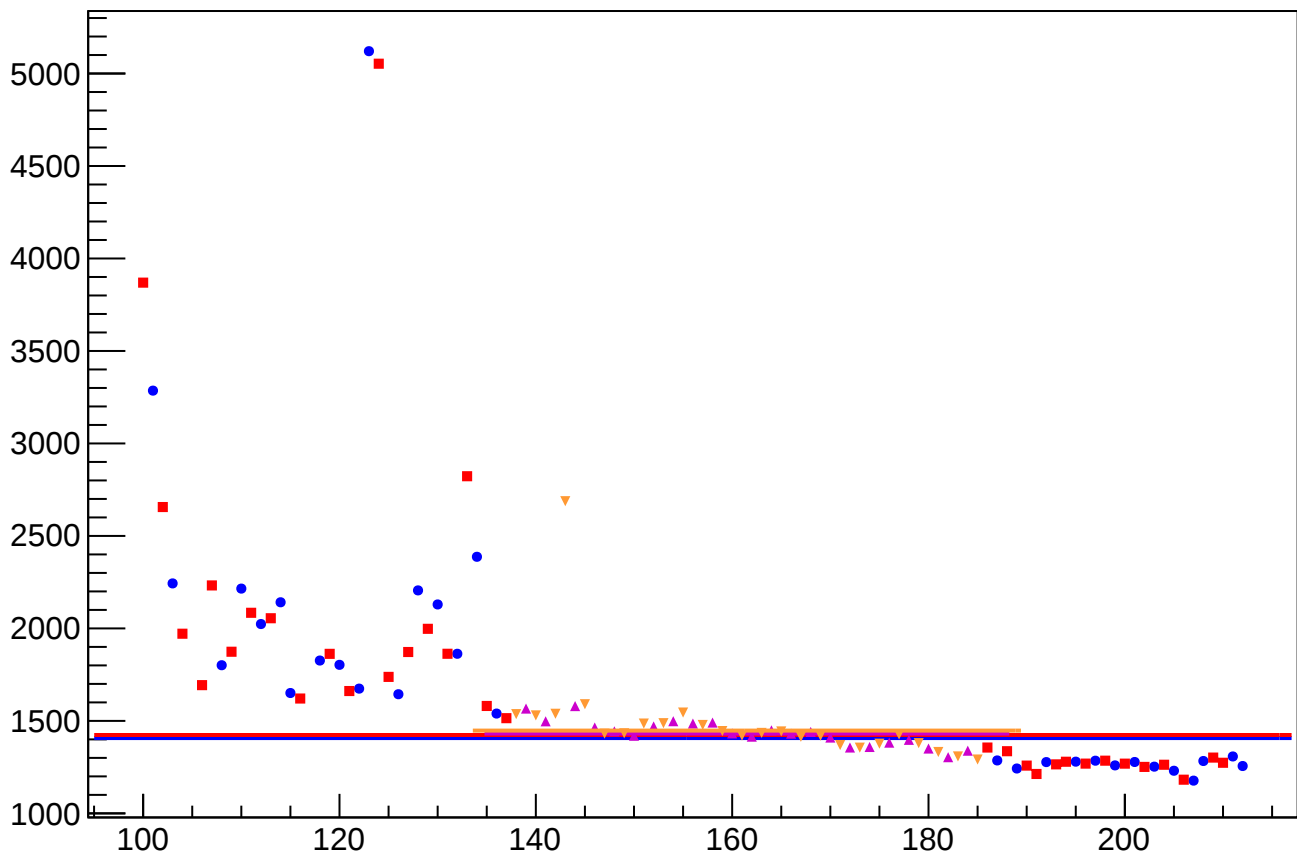
Right: -388.065 ± 256.759 χ^2/NDF : 56.7/62

In: -24.682 ± 249.773 χ^2/NDF : 50.6/52

Out: -903.797 ± 247.818 χ^2/NDF : 51.2/57

All: -467.693 ± 175.921 χ^2/NDF : 108.0/110

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1407.155+/-0.257 χ^2/NDF : 1569924.6/29

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1423.764+/-0.256 χ^2/NDF : 1601417.3/32

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

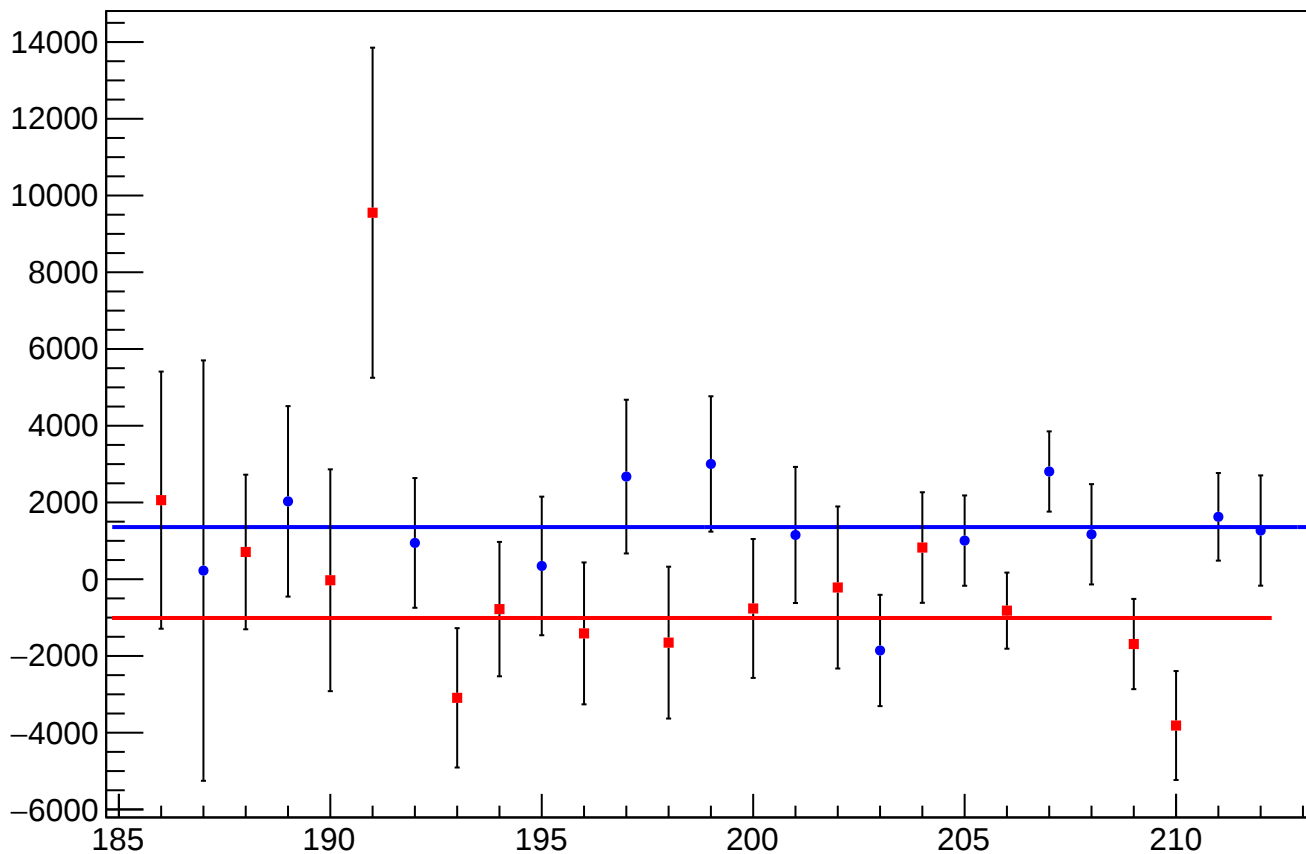
Right: 1415.484+/-0.182 χ^2/NDF : 3173434.2/62

In: 1419.991+/-0.177 χ^2/NDF : 1649772.7/52

Out: 1436.440+/-0.175 χ^2/NDF : 2025260.1/57

All: 1428.281+/-0.124 χ^2/NDF : 3679404.0/111

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1358.936+/-419.249 χ^2/NDF : 8.8/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -1010.253+/-450.217 χ^2/NDF : 15.2/13

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

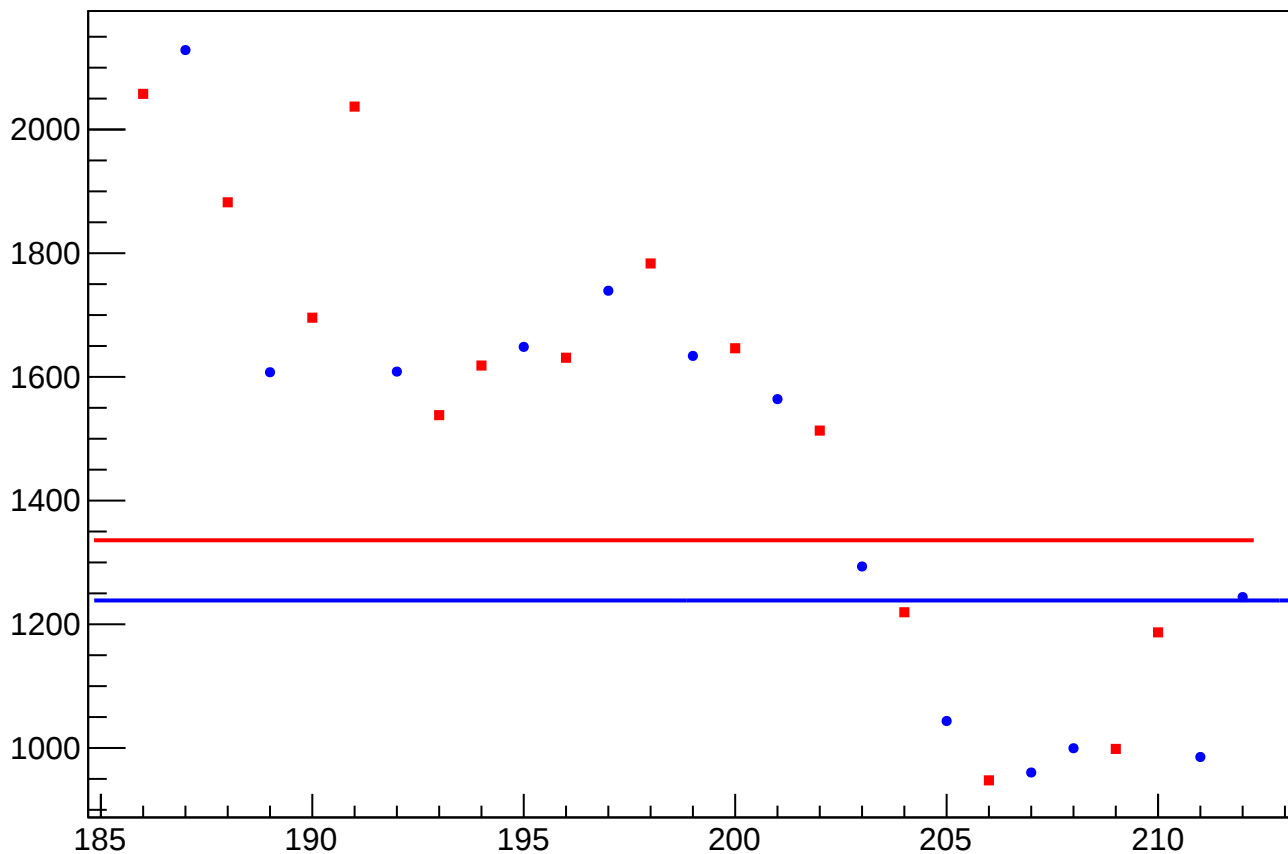
Right: 258.618+/-306.818 χ^2/NDF : 38.9/26

In: 1358.936+/-419.249 χ^2/NDF : 8.8/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 258.618+/-306.818 χ^2/NDF : 38.9/26

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1238.504+/-0.296 χ^2/NDF : 953264.8/12

Left Out: 0.000+/-0.000 χ^2/NDF :0.0/0

Right Out: 1335.832+/-0.318 χ^2/NDF : 1133349.9/13

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

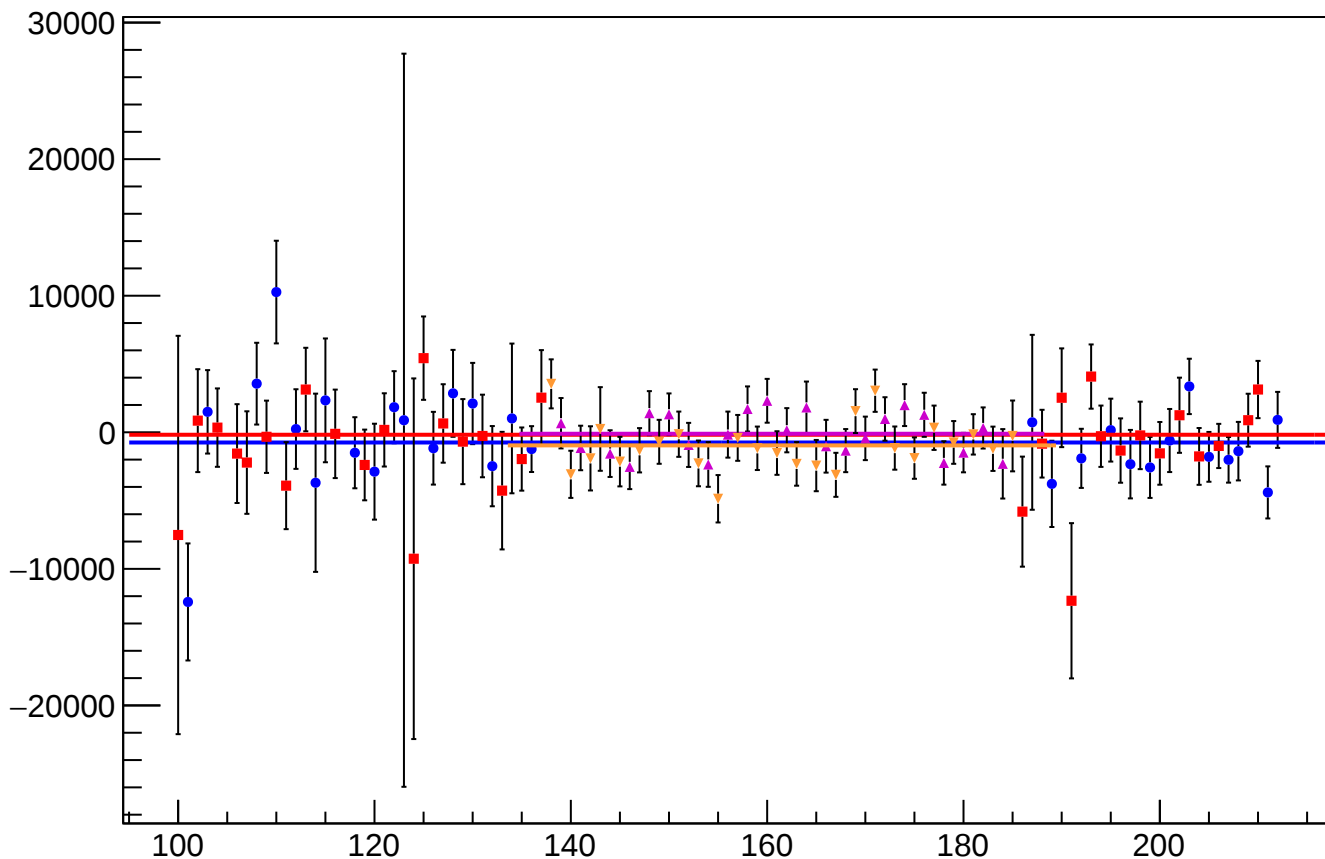
Right: 1283.706+/-0.217 χ^2/NDF : 2136673.5/26

In: 1238.504+/-0.296 χ^2/NDF :953264.8/12

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: 1283.706+/-0.217 χ^2/NDF : 2136673.5/26

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -747.246+/-472.894 χ^2/NDF : 35.5/29

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -180.284+/-480.616 χ^2/NDF : 25.1/32

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

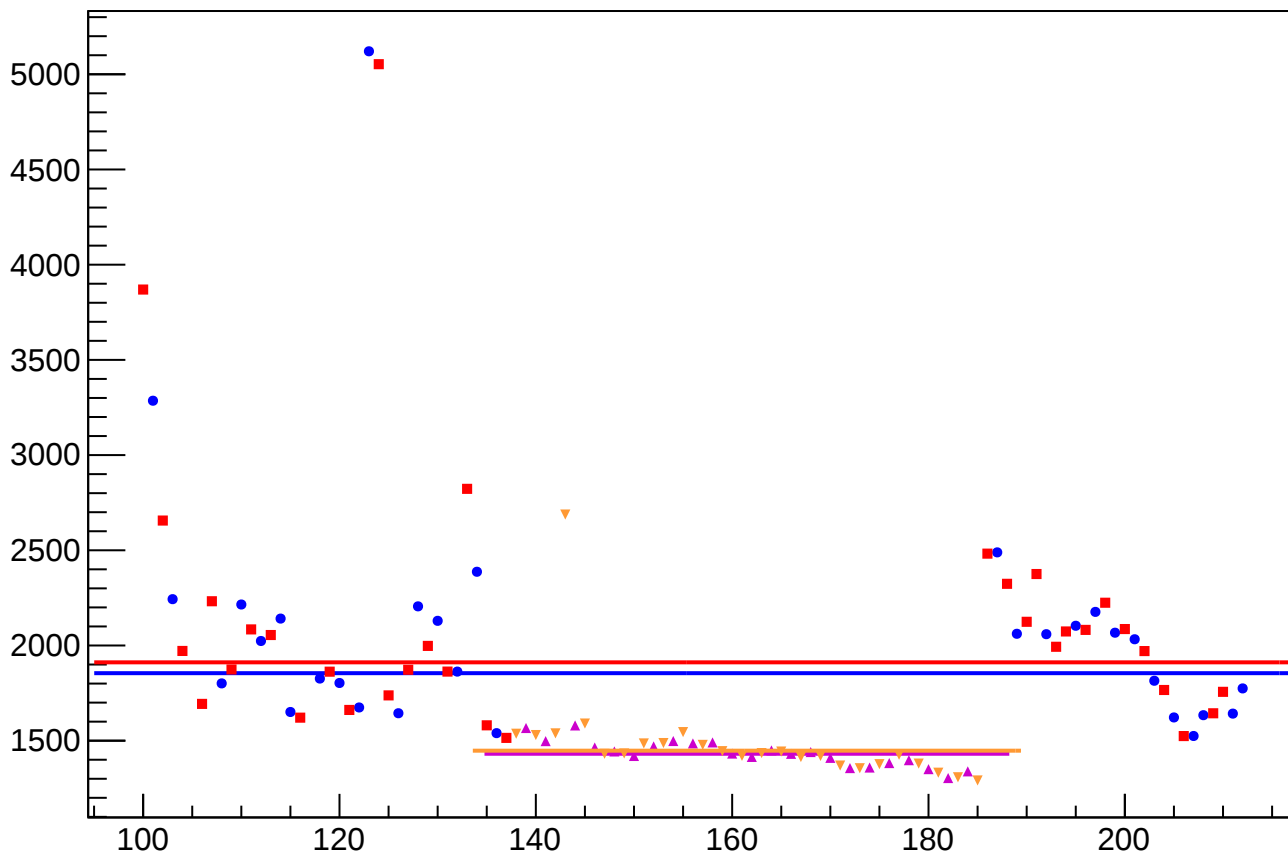
Right: -468.356+/-337.083 χ^2/NDF : 61.3/62

In: -328.607+/-278.005 χ^2/NDF : 56.2/52

Out: -699.391+/-277.293 χ^2/NDF : 55.4/57

All: -514.475+/-196.327 χ^2/NDF : 112.4/110

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1854.597 $\pm$ 0.334 χ^2 /NDF: 764737.3/29

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1911.514 $\pm$ 0.340 χ^2 /NDF: 817448.9/32

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

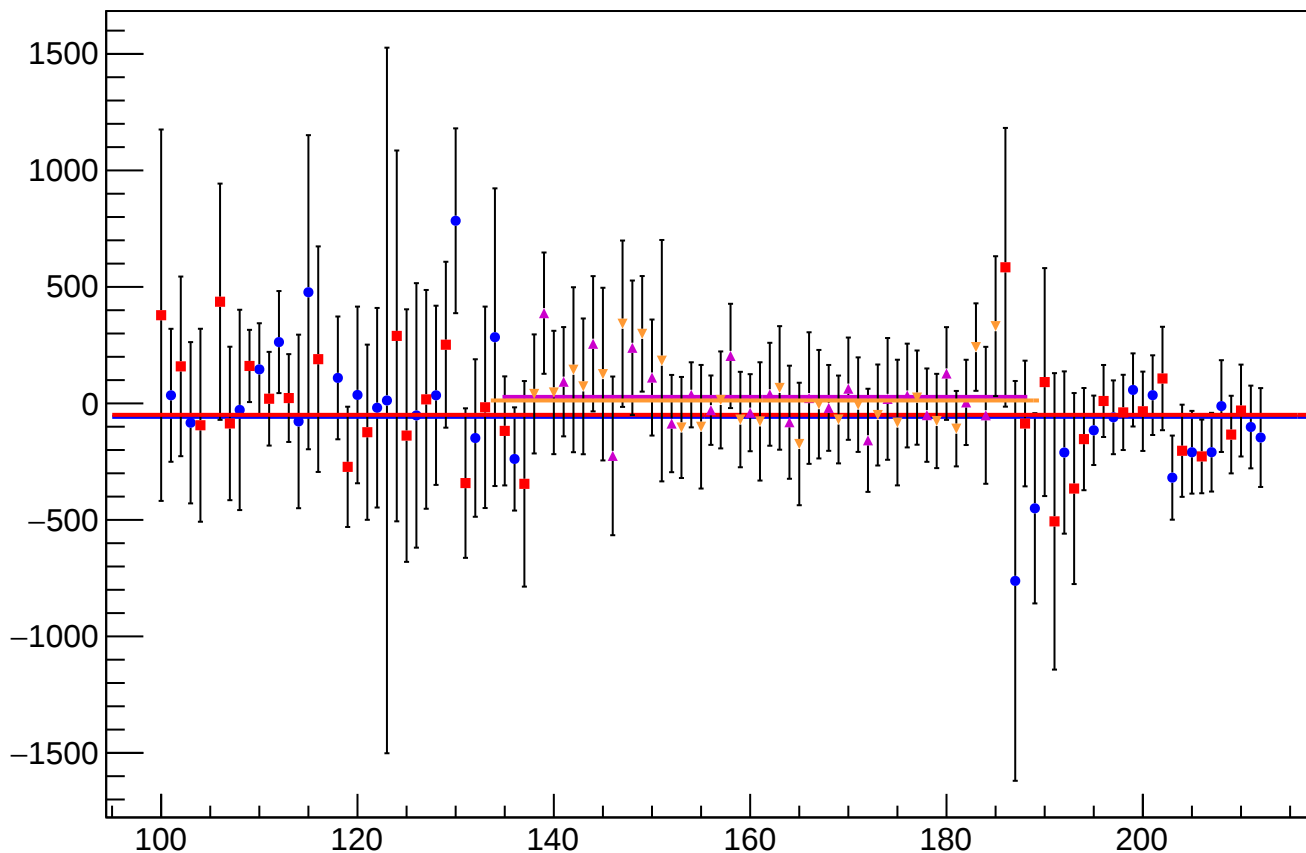
Right: 1882.594 $\pm$ 0.238 χ^2 /NDF: 1596437.9/62

In: 1577.695 $\pm$ 0.197 χ^2 /NDF: 1887757.9/52

Out: 1601.997 $\pm$ 0.196 χ^2 /NDF: 2480089.2/57

All: 1589.877 $\pm$ 0.139 χ^2 /NDF: 4375507.9/111

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.690 ± 44.309 $\chi^2/\text{NDF}: 16.7/29$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -49.037 ± 44.013 $\chi^2/\text{NDF}: 12.3/32$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

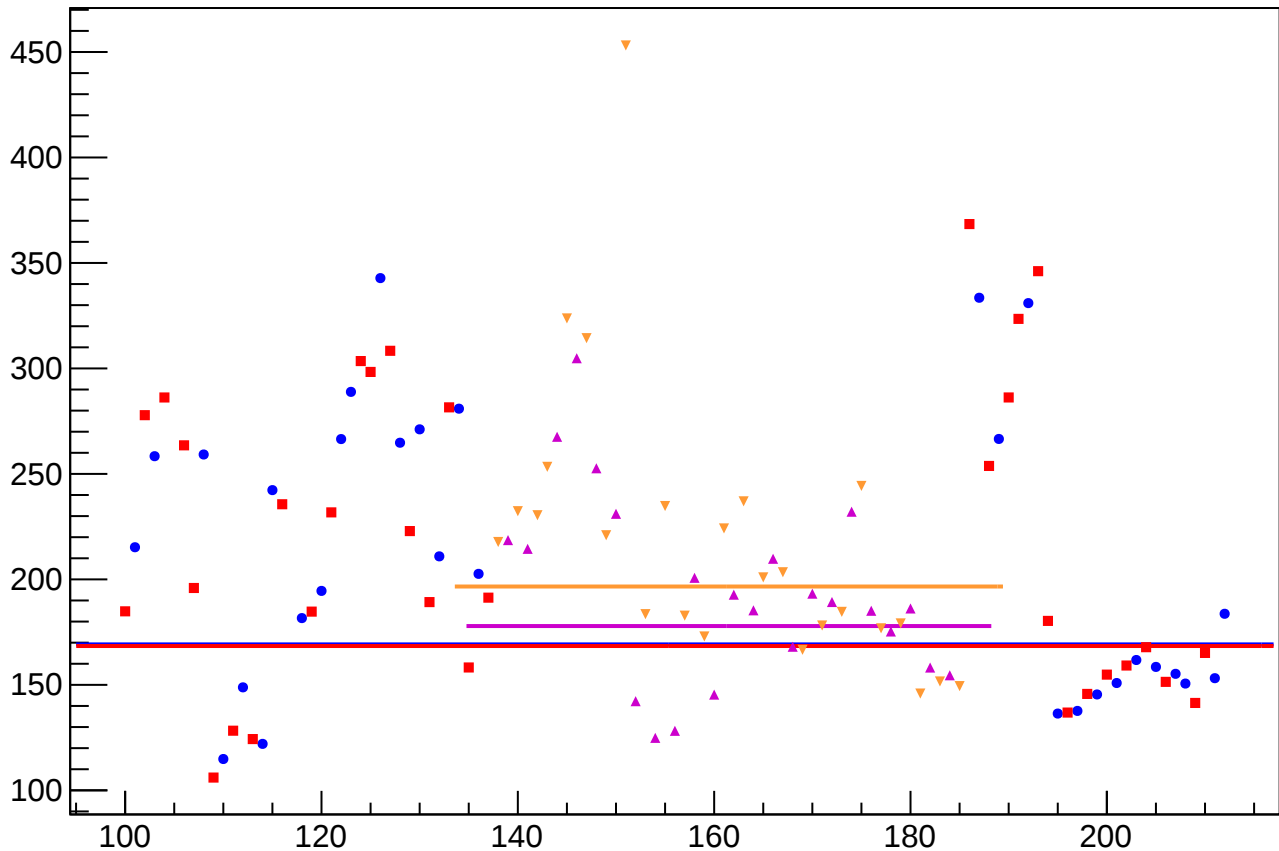
Right: -53.335 ± 31.226 $\chi^2/\text{NDF}: 29.1/62$

In: -15.091 ± 31.407 $\chi^2/\text{NDF}: 25.1/52$

Out: -20.546 ± 32.280 $\chi^2/\text{NDF}: 20.9/57$

All: -17.744 ± 22.510 $\chi^2/\text{NDF}: 46.0/110$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.178+/-0.031 χ^2/NDF : 2136904.4/29

Left Out: 196.620+/-0.034 χ^2/NDF : 1793507.9/24

Right Out: 168.409+/-0.031 χ^2/NDF : 2831877.2/32

Left In: 177.878+/-0.031 χ^2/NDF : 1644086.7/22

Left: 186.646+/-0.023 χ^2/NDF : 3603390.3/47

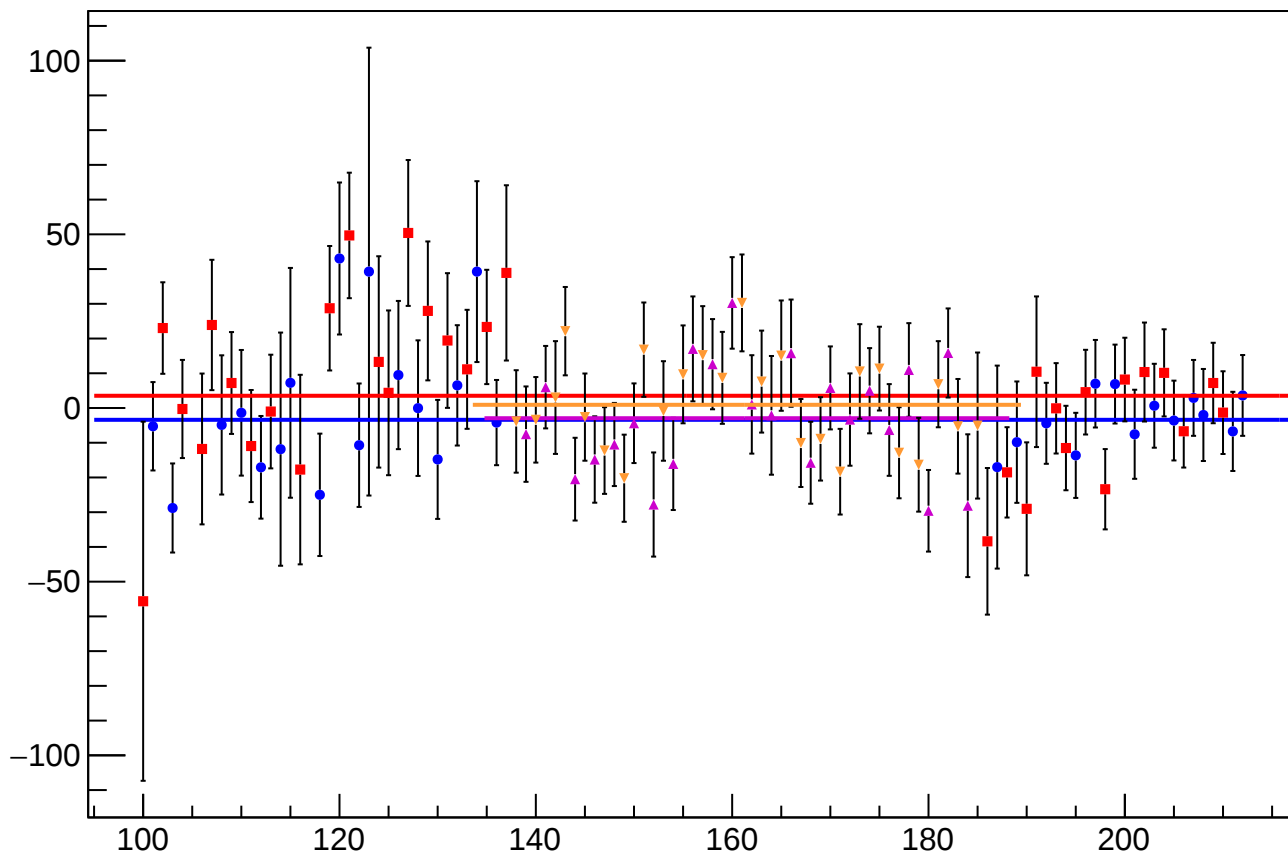
Right: 168.791+/-0.022 χ^2/NDF : 4969084.6/62

In: 173.507+/-0.022 χ^2/NDF : 3819357.3/52

Out: 181.445+/-0.023 χ^2/NDF : 5005077.1/57

All: 177.367+/-0.016 χ^2/NDF : 8886568.8/110

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.400 ± 2.724 $\chi^2/\text{NDF}: 19.0/29$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 3.523 ± 2.706 $\chi^2/\text{NDF}: 44.9/32$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

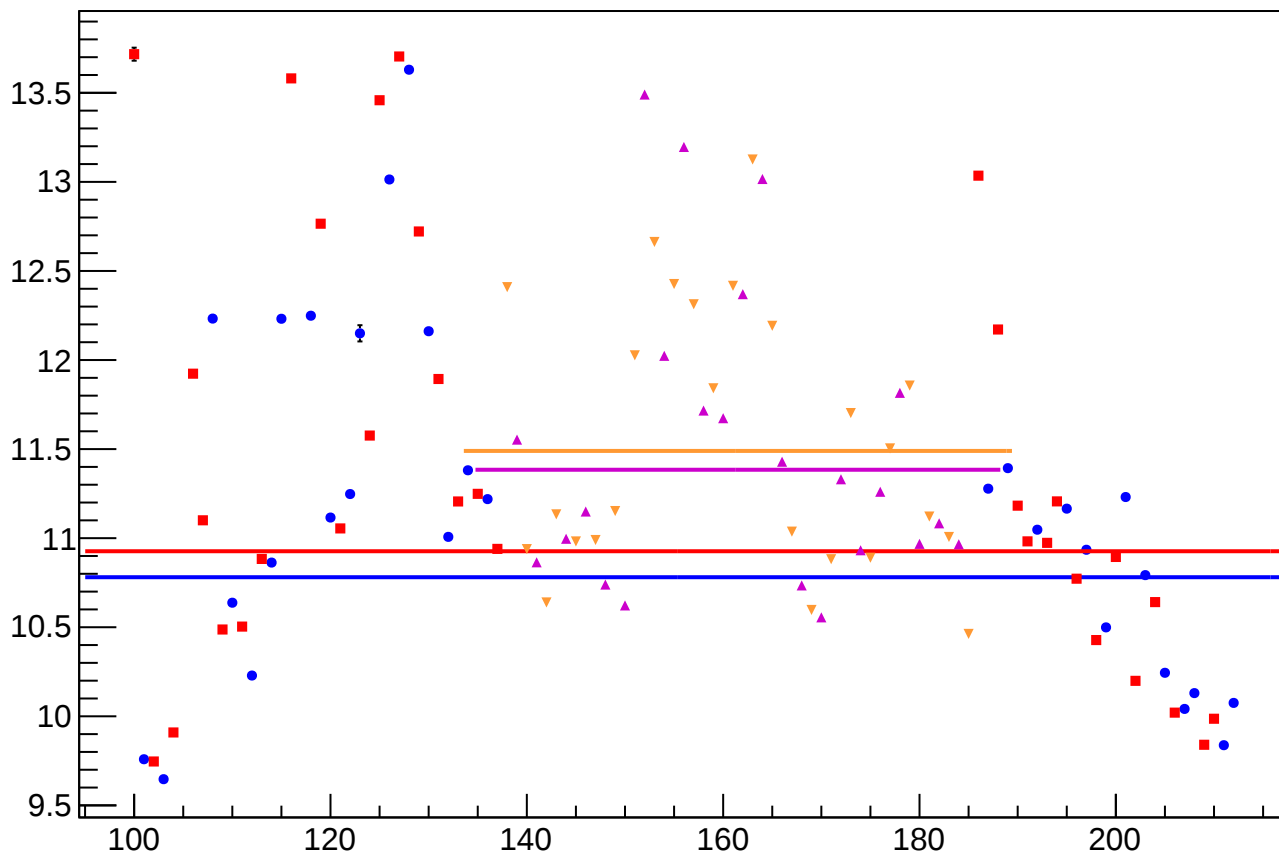
Right: 0.084 ± 1.920 $\chi^2/\text{NDF}: 67.2/62$

In: -3.172 ± 1.933 $\chi^2/\text{NDF}: 50.1/52$

Out: 2.216 ± 1.910 $\chi^2/\text{NDF}: 69.3/57$

All: -0.445 ± 1.359 $\chi^2/\text{NDF}: 123.4/110$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.781 $\pm$ 0.002 χ^2 /NDF: 193329.0/29

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 10.927 $\pm$ 0.002 χ^2 /NDF: 256114.1/32

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

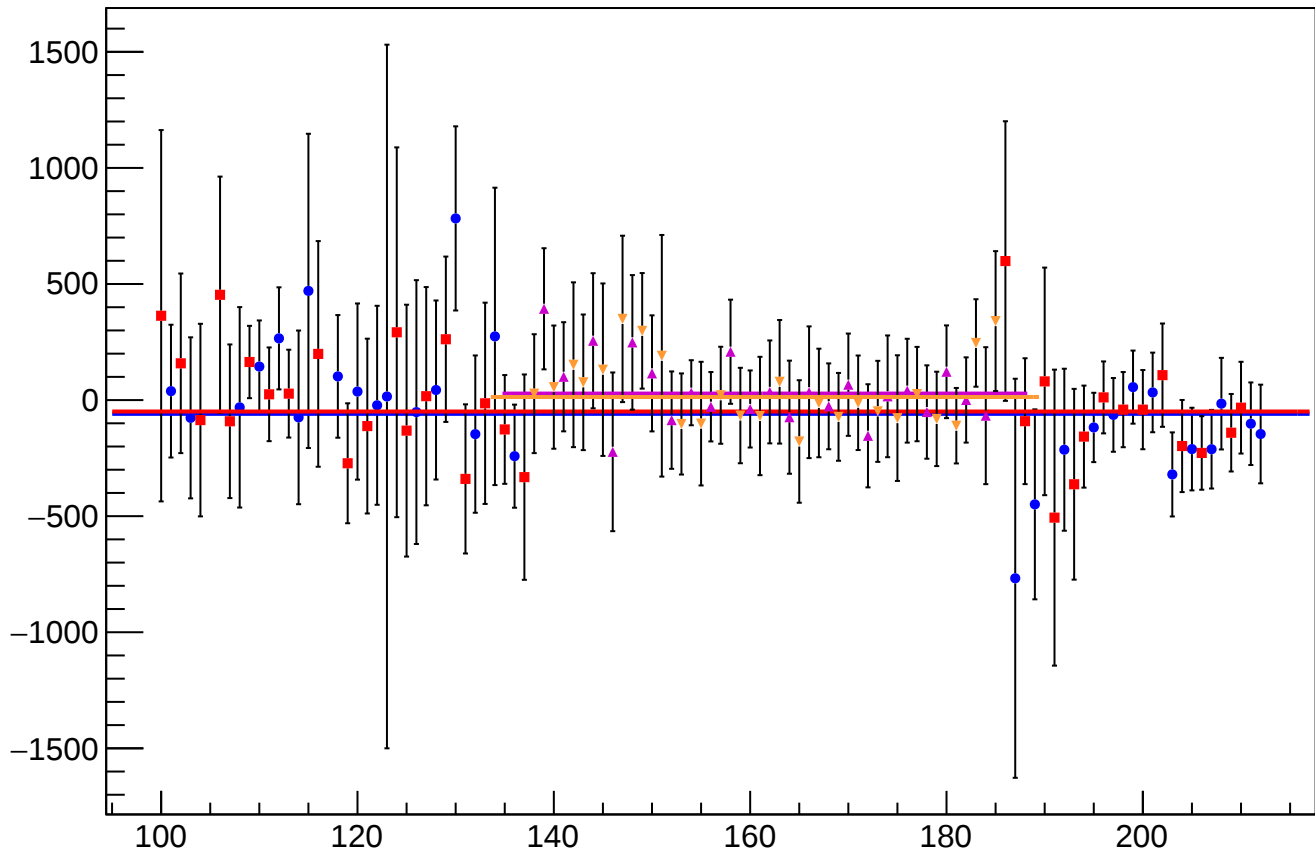
Right: 10.854 $\pm$ 0.001 χ^2 /NDF: 452328.3/62

In: 11.080 $\pm$ 0.001 χ^2 /NDF:391805.8/52

Out: 11.209 $\pm$ 0.001 χ^2 /NDF:431979.6/57

All: 11.145 $\pm$ 0.001 χ^2 /NDF: 828297.6/110

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.280 ± 44.417 χ^2/NDF : 16.7/29

Left Out: 13.323 ± 47.662 χ^2/NDF : 7.9/24

Right Out: -49.200 ± 44.129 χ^2/NDF : 12.5/32

Left In: 28.050 ± 44.681 χ^2/NDF : 6.6/22

Left: 21.161 ± 32.597 χ^2/NDF : 14.6/47

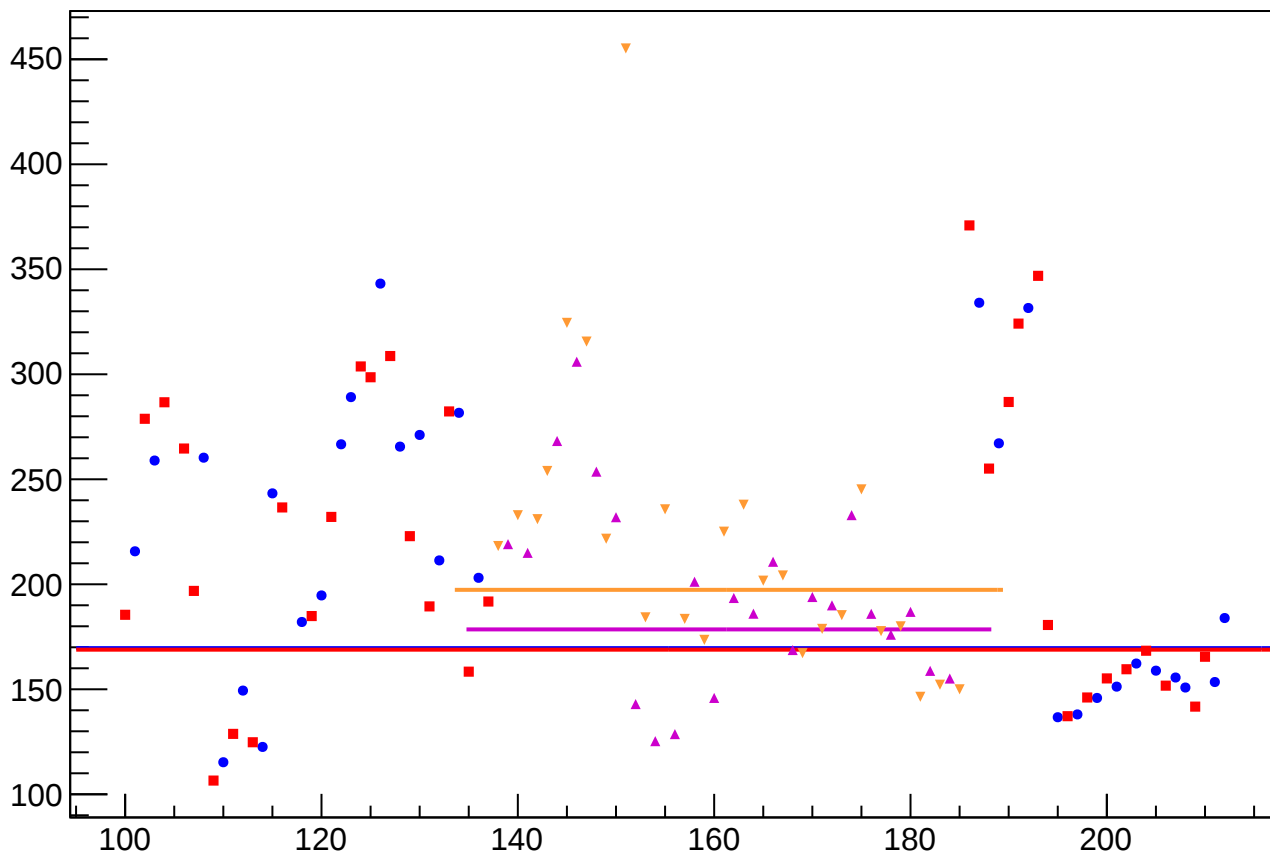
Right: -54.207 ± 31.305 χ^2/NDF : 29.2/62

In: -15.874 ± 31.501 χ^2/NDF : 25.2/52

Out: -20.342 ± 32.381 χ^2/NDF : 21.3/57

All: -18.046 ± 22.579 χ^2/NDF : 46.5/110

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.601 $\pm$ 0.031 χ^2 /NDF: 2132077.2/29

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF: 1790824.5/24

Right Out: 168.863 $\pm$ 0.031 χ^2 /NDF: 2828609.0/32

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

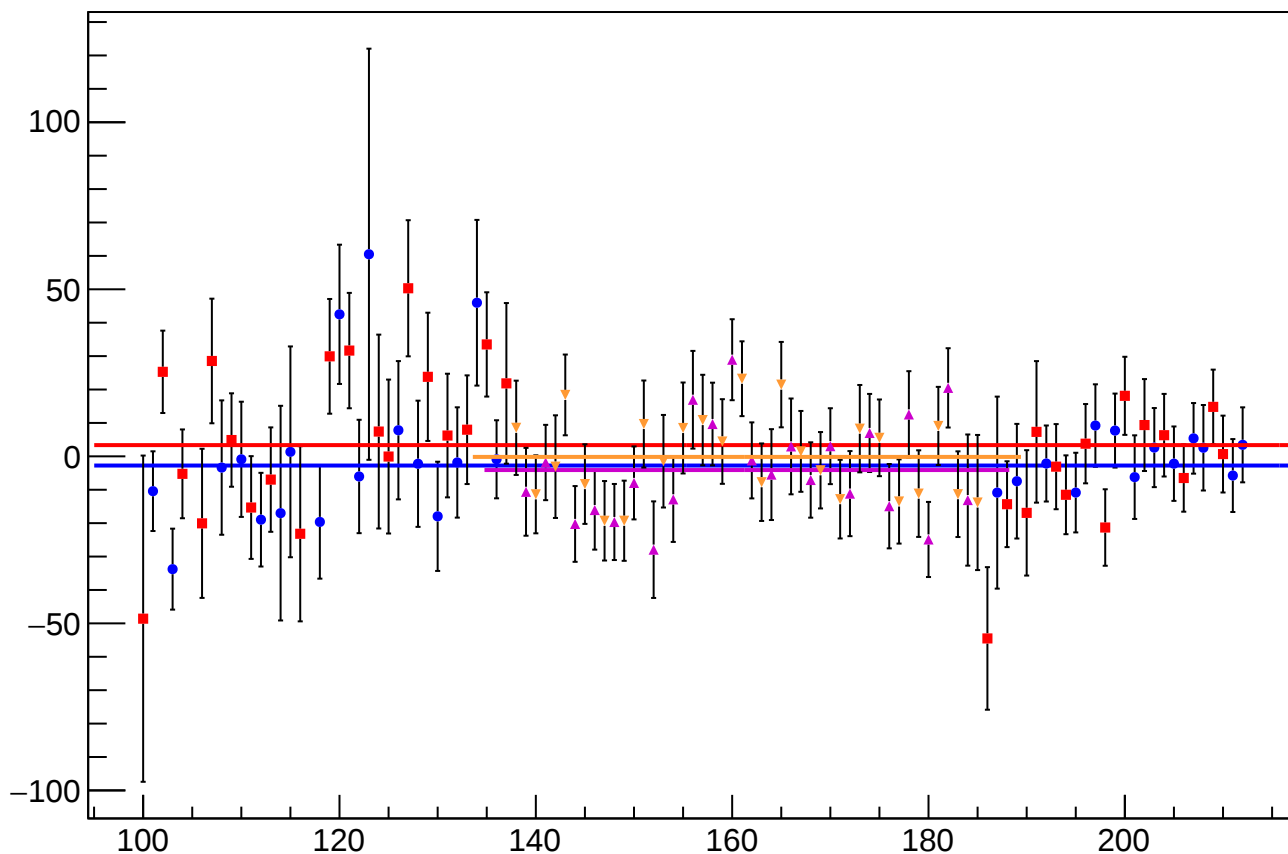
Right: 169.230 $\pm$ 0.022 χ^2 /NDF: 4960963.5/62

In: 174.030 $\pm$ 0.022 χ^2 /NDF: 3814395.7/52

Out: 182.014 $\pm$ 0.023 χ^2 /NDF: 5004257.0/57

All: 177.912 $\pm$ 0.016 χ^2 /NDF: 8881126.8/110

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.754 ± 2.628 $\chi^2/\text{NDF}: 24.2/29$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 3.360 ± 2.618 $\chi^2/\text{NDF}: 47.4/32$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

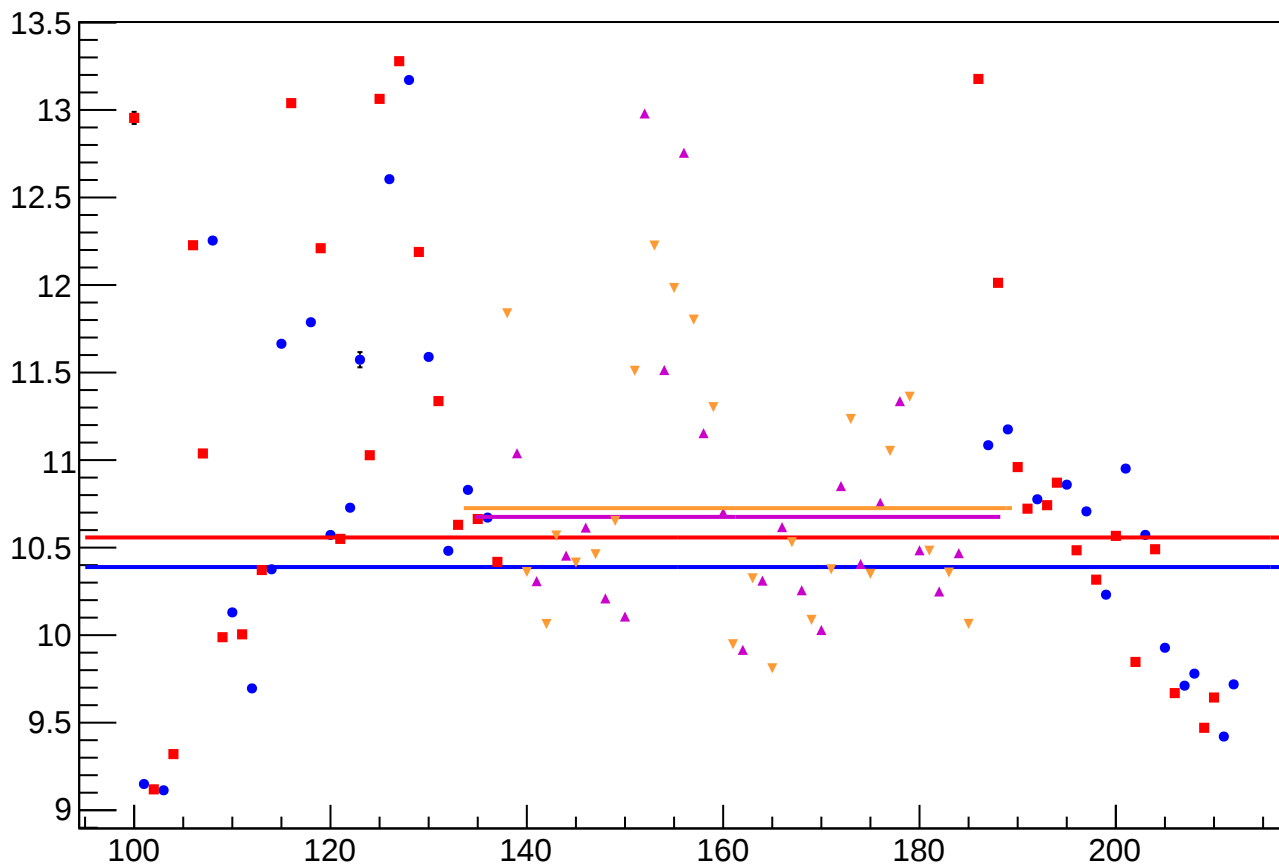
Right: 0.315 ± 1.855 $\chi^2/\text{NDF}: 74.4/62$

In: -3.443 ± 1.840 $\chi^2/\text{NDF}: 55.9/52$

Out: 1.528 ± 1.816 $\chi^2/\text{NDF}: 72.7/57$

All: -0.925 ± 1.292 $\chi^2/\text{NDF}: 132.3/110$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.389 $\pm$ 0.002 χ^2/NDF : 219859.6/29

Left Out: 10.725 $\pm$ 0.002 χ^2/NDF : 132170.8/24

Right Out: 10.558 $\pm$ 0.002 χ^2/NDF : 294744.8/32

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

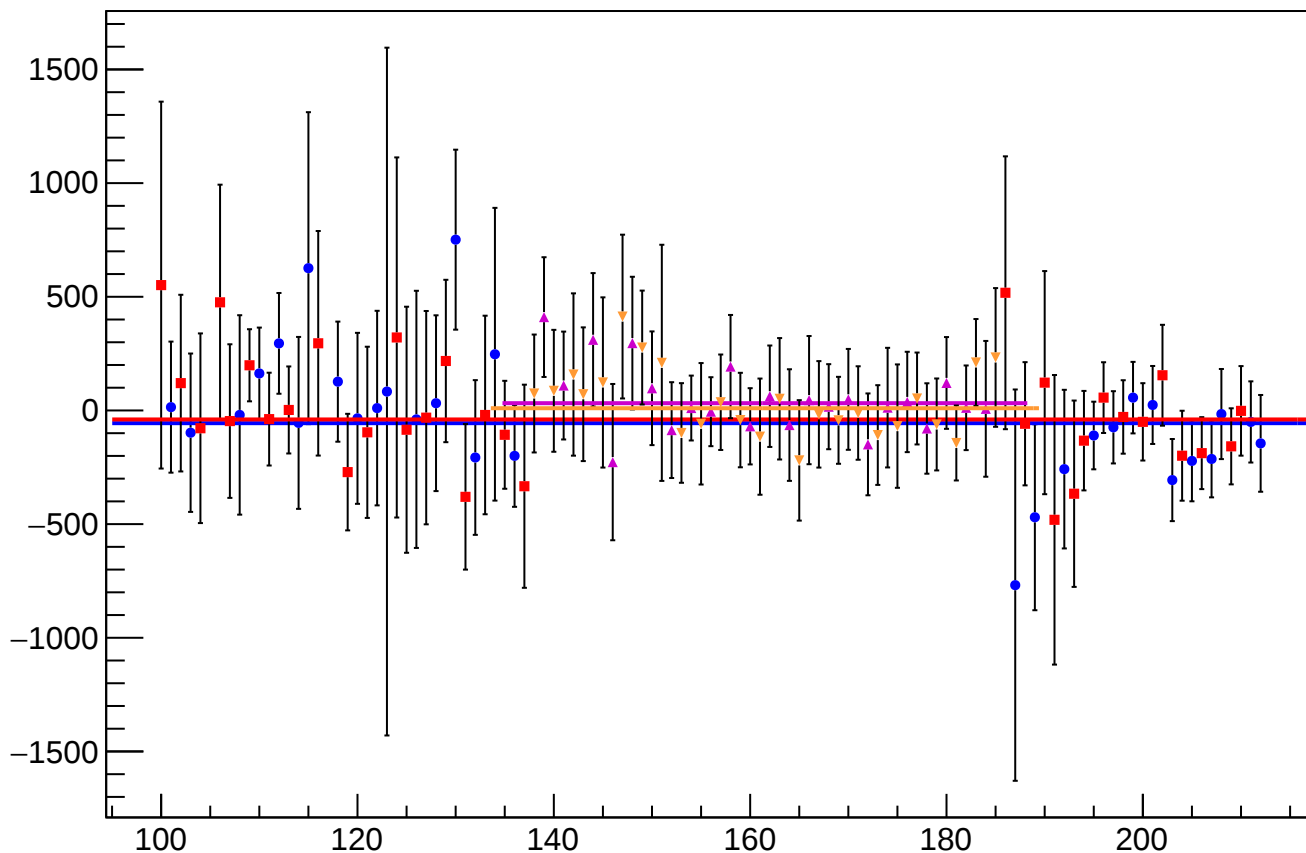
Right: 10.474 $\pm$ 0.001 χ^2/NDF : 518753.6/62

In: 10.535 $\pm$ 0.001 χ^2/NDF : 377908.3/52

Out: 10.645 $\pm$ 0.001 χ^2/NDF : 431164.3/57

All: 10.591 $\pm$ 0.001 χ^2/NDF : 812687.0/110

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.962 ± 44.498 $\chi^2/\text{NDF}: 17.1/29$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -39.608 ± 44.269 $\chi^2/\text{NDF}: 13.2/32$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

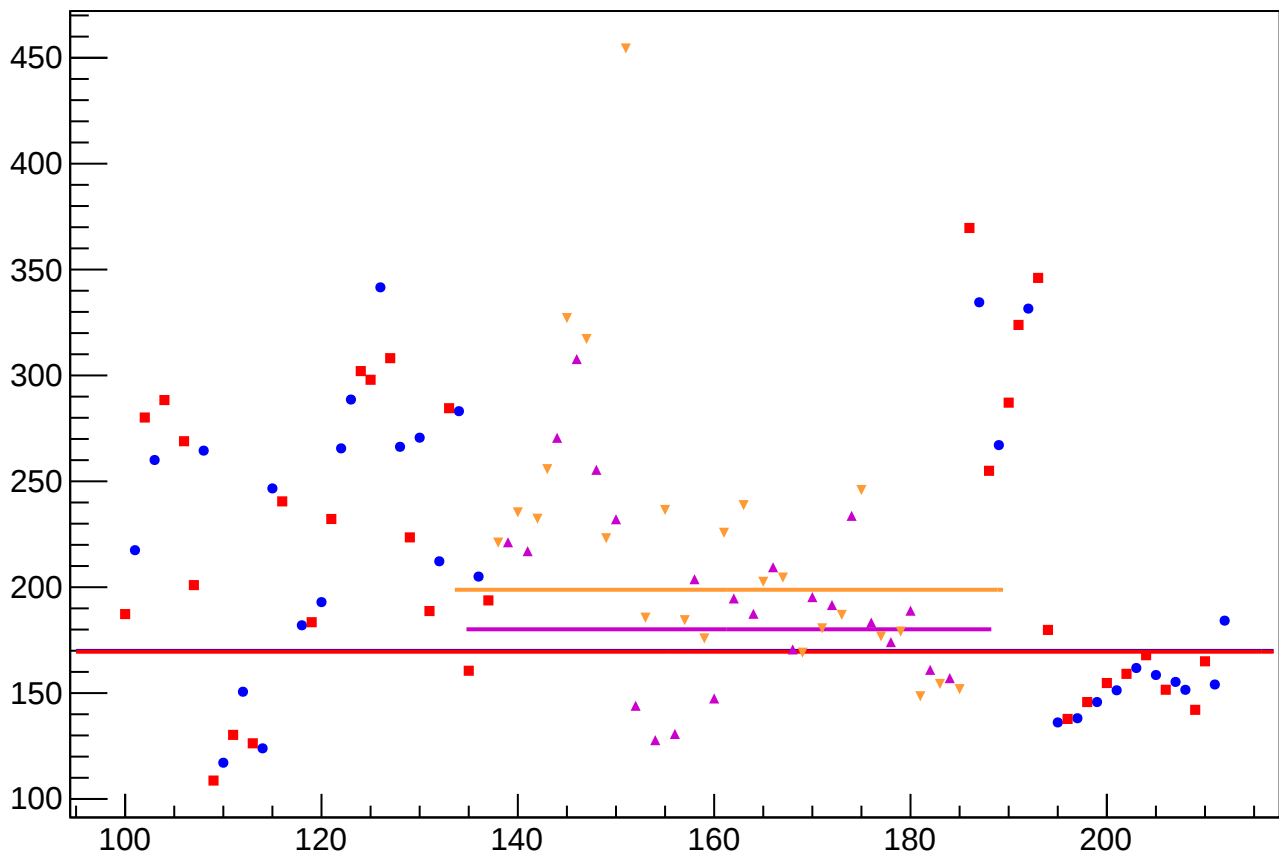
Right: -47.743 ± 31.383 $\chi^2/\text{NDF}: 30.4/62$

In: -12.518 ± 31.654 $\chi^2/\text{NDF}: 26.2/52$

Out: -16.887 ± 32.535 $\chi^2/\text{NDF}: 21.3/57$

All: -14.642 ± 22.688 $\chi^2/\text{NDF}: 47.5/110$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.912 $\pm$ 0.031 χ^2 /NDF: 2130432.7/29

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF: 1763119.1/24

Right Out: 169.539 $\pm$ 0.031 χ^2 /NDF: 2788641.5/32

Left In: 180.123 $\pm$ 0.032 χ^2 /NDF: 1593842.6/22

Left: 188.872 $\pm$ 0.023 χ^2 /NDF: 3518071.9/47

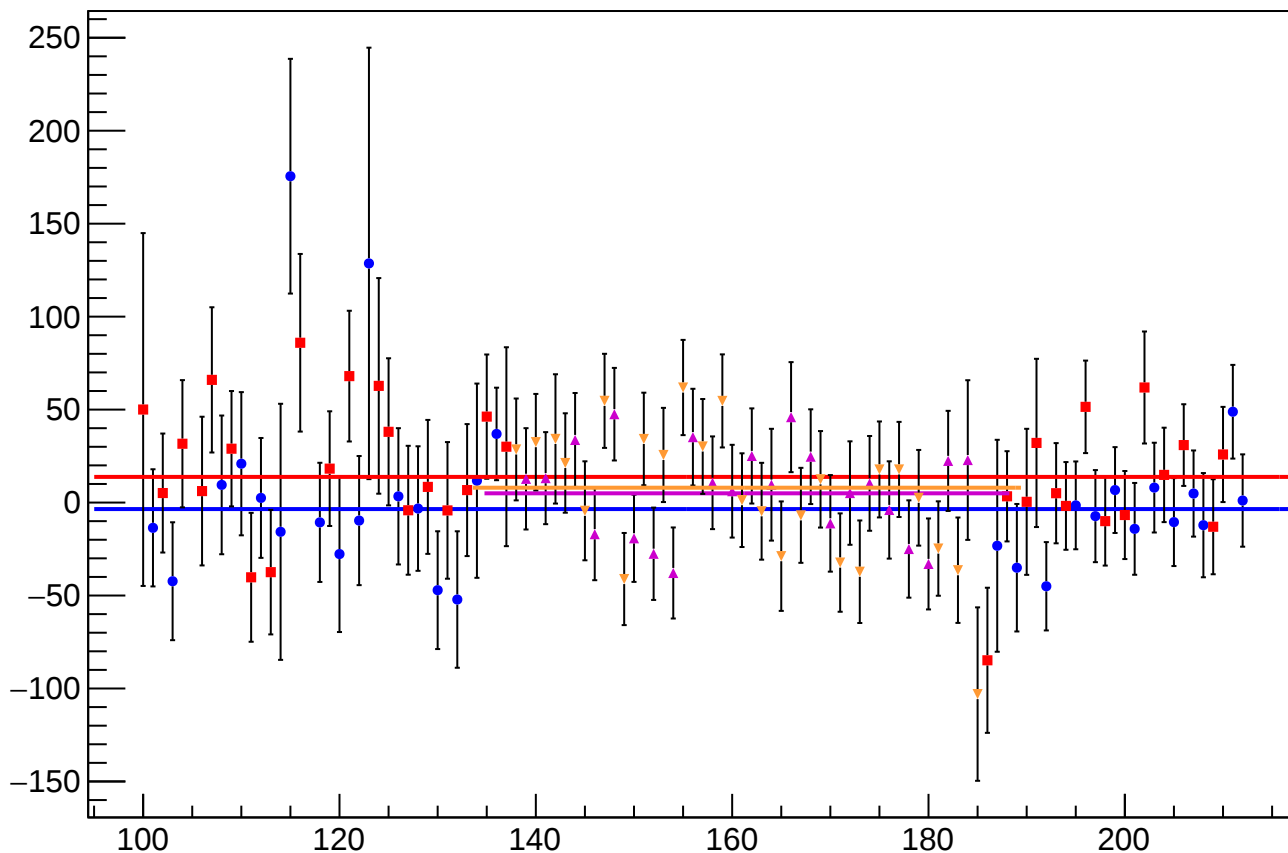
Right: 169.724 $\pm$ 0.022 χ^2 /NDF: 4919145.0/62

In: 174.956 $\pm$ 0.022 χ^2 /NDF: 3776296.8/52

Out: 182.995 $\pm$ 0.023 χ^2 /NDF: 4953588.4/57

All: 178.865 $\pm$ 0.016 χ^2 /NDF: 8792607.1/110

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.498 ± 5.562 χ^2/NDF : 27.7/29

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 13.802 ± 5.488 χ^2/NDF : 30.6/32

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

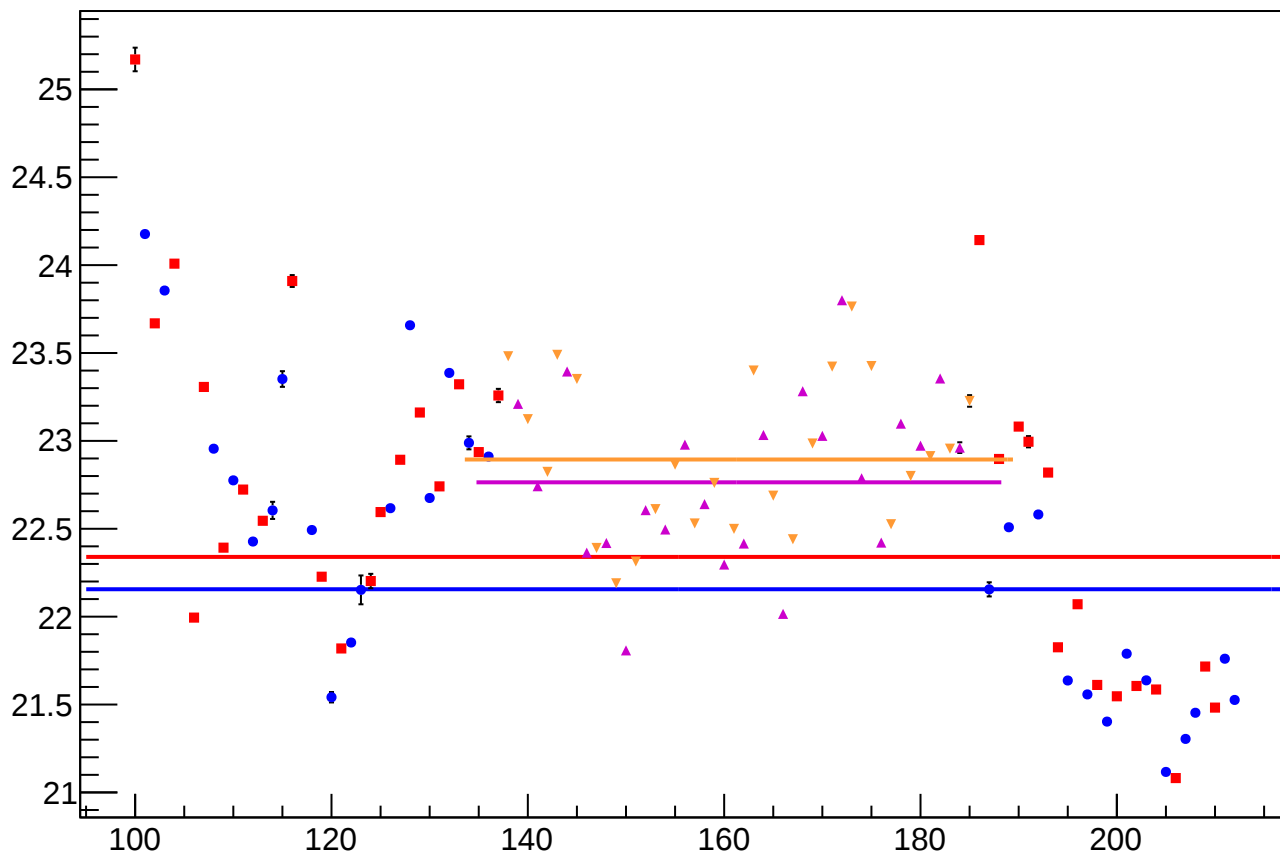
Right: 5.267 ± 3.906 χ^2/NDF : 63.2/62

In: 0.828 ± 3.891 χ^2/NDF : 49.3/52

Out: 10.810 ± 3.822 χ^2/NDF : 68.6/57

All: 5.907 ± 2.727 χ^2/NDF : 121.3/110

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.156 $\pm$ 0.004 χ^2 /NDF: 42714.0/29

Left Out: 22.894 $\pm$ 0.004 χ^2 /NDF:13070.5/24

Right Out: 22.340 $\pm$ 0.004 χ^2 /NDF: 44271.4/32

Left In: 22.764 $\pm$ 0.004 χ^2 /NDF:14665.7/22

Left: 22.831 $\pm$ 0.003 χ^2 /NDF: 28317.3/47

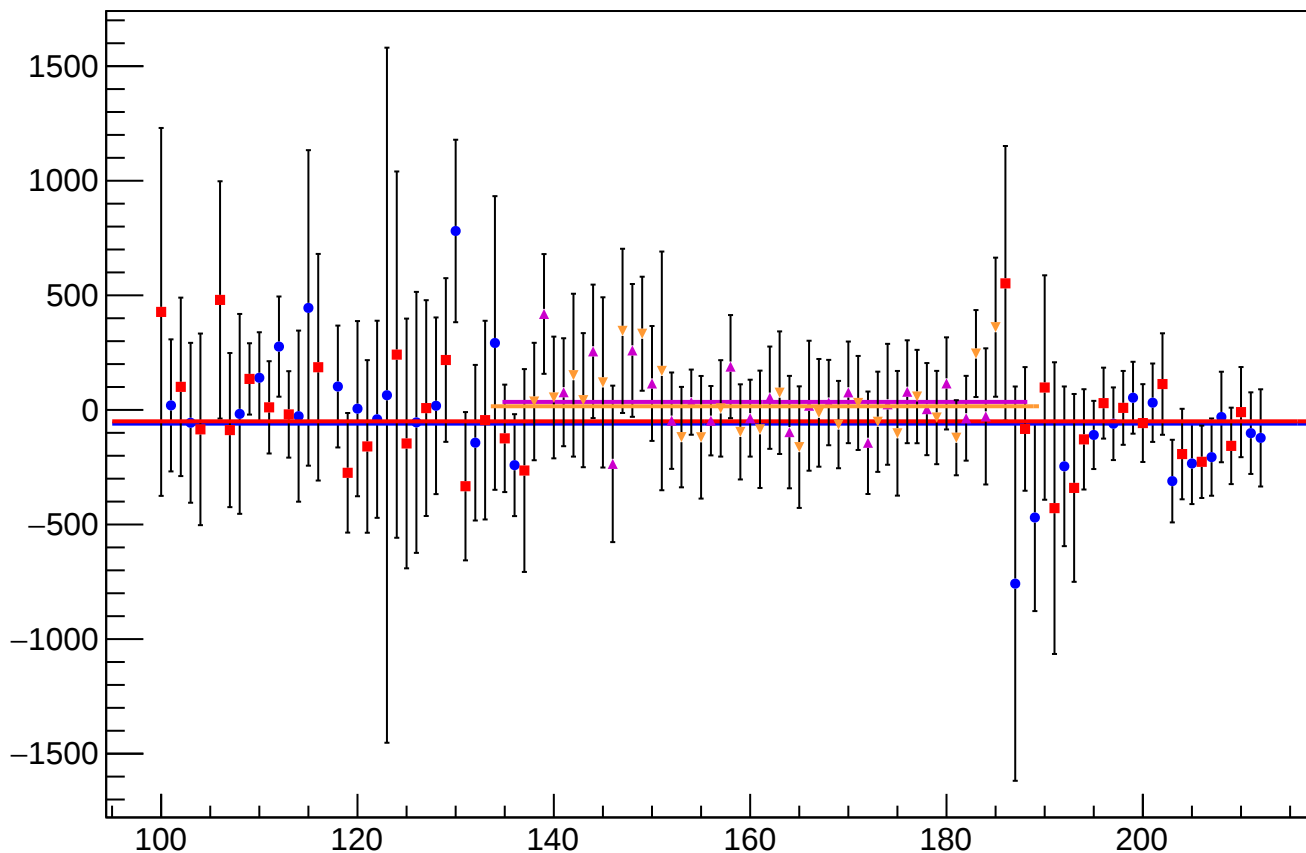
Right: 22.249 $\pm$ 0.003 χ^2 /NDF: 88094.0/62

In: 22.467 $\pm$ 0.003 χ^2 /NDF:69598.0/52

Out: 22.625 $\pm$ 0.003 χ^2 /NDF:67842.7/57

All: 22.547 $\pm$ 0.002 χ^2 /NDF: 139133.4/110

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.829 $\pm$ 44.367 χ^2 /NDF: 16.6/29

Left Out: 15.904 $\pm$ 47.898 χ^2 /NDF:8.4/24

Right Out: -49.768 $\pm$ 44.078 χ^2 /NDF: 11.3/32

Left In: 34.919 $\pm$ 44.971 χ^2 /NDF:6.6/22

Left: 26.010 $\pm$ 32.785 χ^2 /NDF: 15.1/47

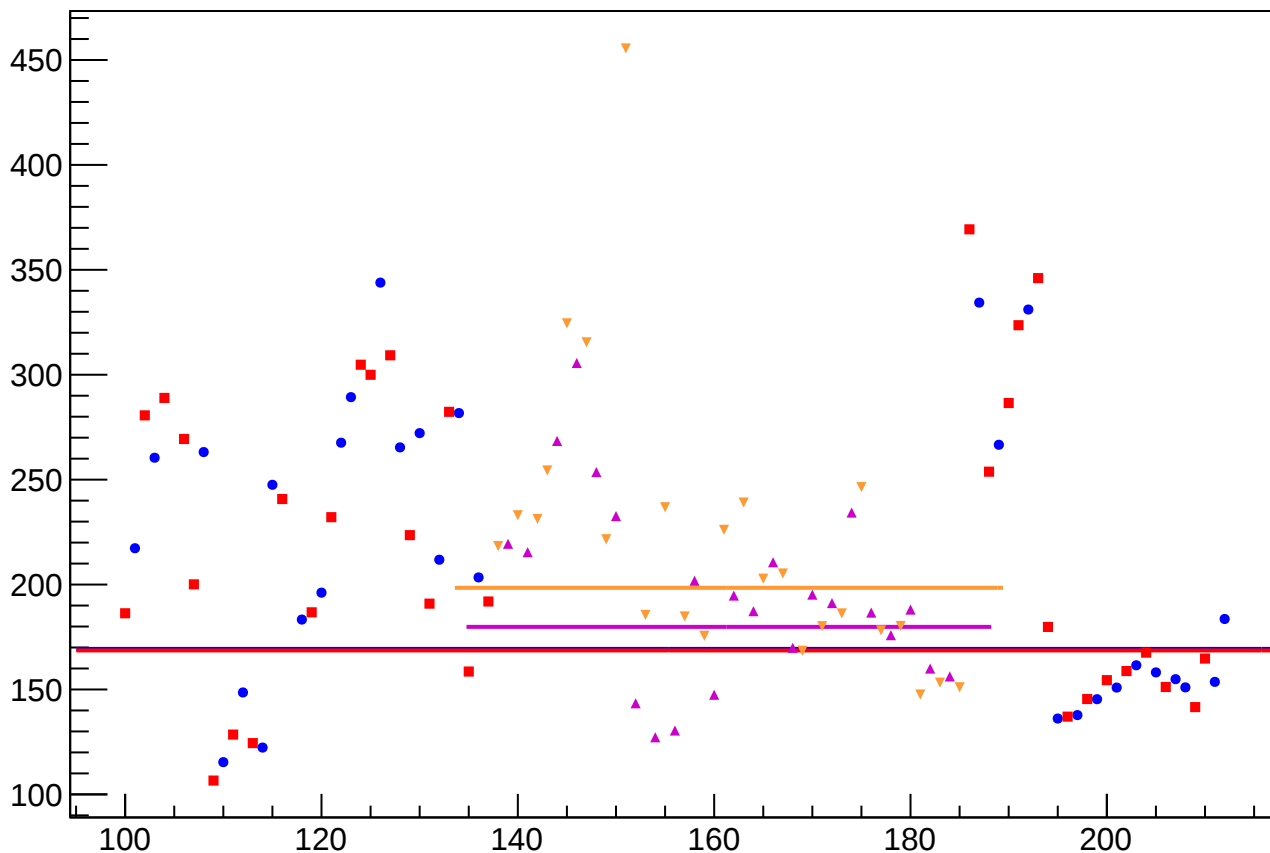
Right: -54.766 $\pm$ 31.270 χ^2 /NDF: 27.9/62

In: -13.095 $\pm$ 31.584 χ^2 /NDF:25.4/52

Out: -19.655 $\pm$ 32.434 χ^2 /NDF:20.7/57

All: -16.288 $\pm$ 22.628 χ^2 /NDF: 46.2/110

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.338 $\pm$ 0.031 χ^2 /NDF: 2160580.1/29

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 168.609 $\pm$ 0.031 χ^2 /NDF: 2856145.6/32

Left In: 179.839 $\pm$ 0.032 χ^2 /NDF:1588834.3/22

Left: 188.558 $\pm$ 0.023 χ^2 /NDF: 3510745.5/47

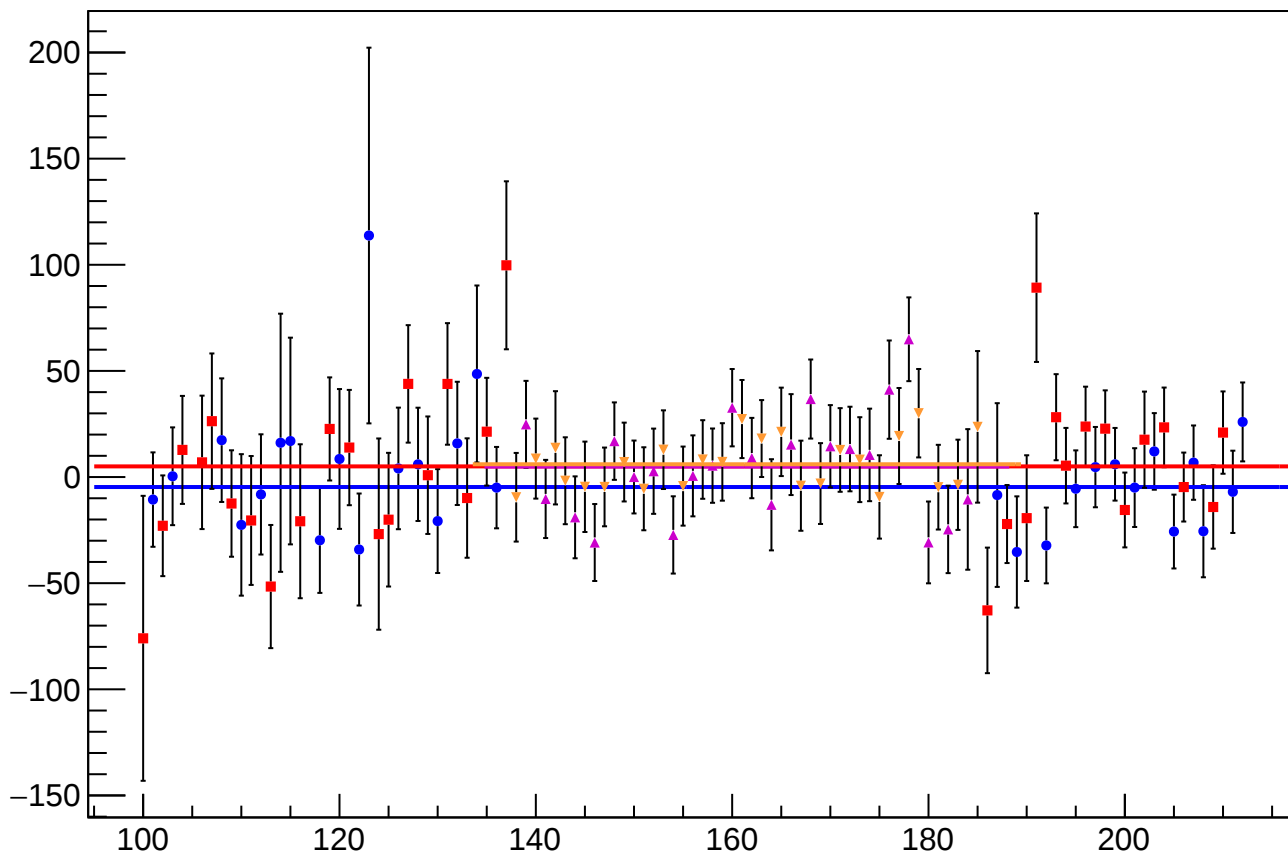
Right: 168.971 $\pm$ 0.022 χ^2 /NDF: 5016998.1/62

In: 174.518 $\pm$ 0.022 χ^2 /NDF:3804673.3/52

Out: 182.292 $\pm$ 0.023 χ^2 /NDF:5037911.5/57

All: 178.301 $\pm$ 0.016 χ^2 /NDF: 8901559.5/110

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.702 ± 4.247 χ^2/NDF : 19.1/29

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 5.017 ± 4.203 χ^2/NDF : 42.7/32

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

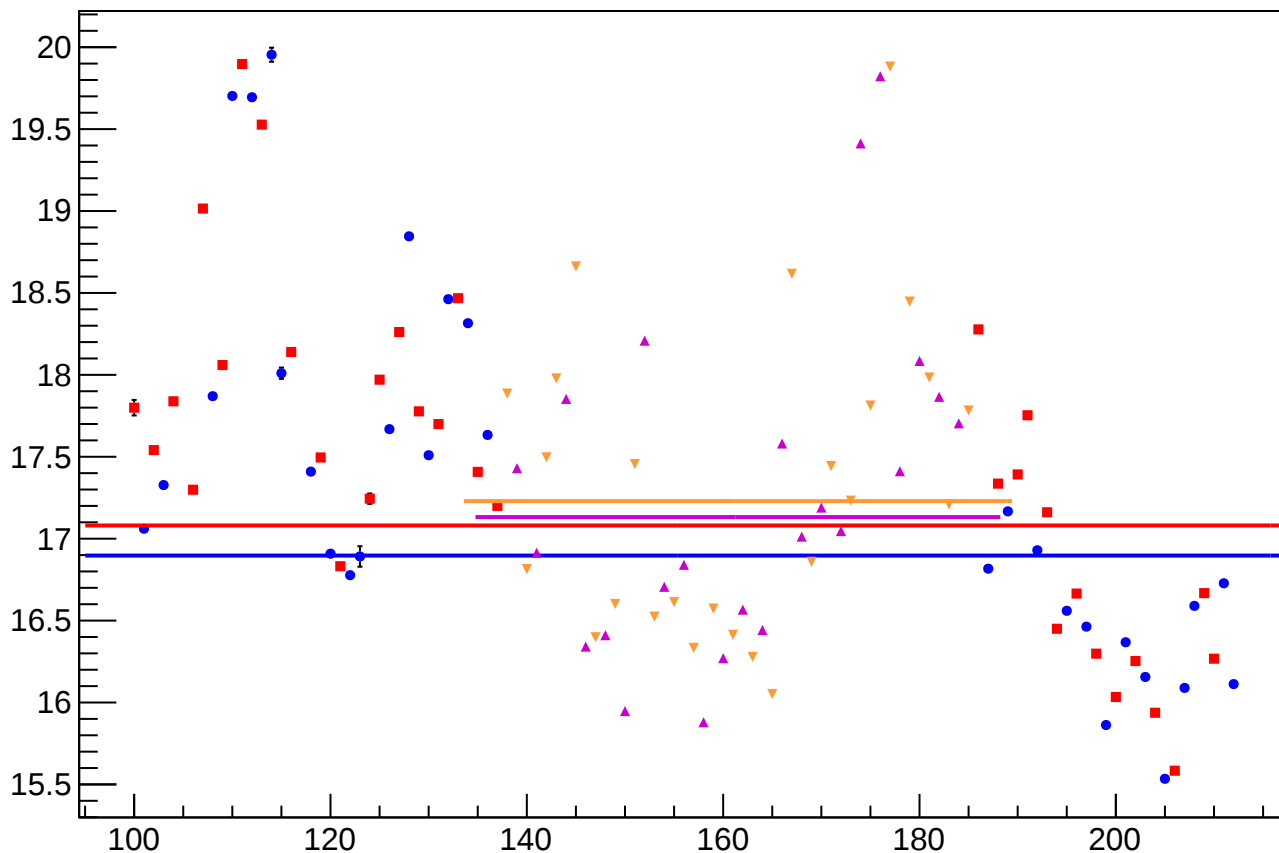
Right: 0.209 ± 2.987 χ^2/NDF : 64.5/62

In: 0.282 ± 2.953 χ^2/NDF : 56.6/52

Out: 5.541 ± 2.904 χ^2/NDF : 50.9/57

All: 2.955 ± 2.070 χ^2/NDF : 109.1/110

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.897 $\pm$ 0.003 χ^2 /NDF: 103098.0/29

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 17.081 $\pm$ 0.003 χ^2 /NDF: 110263.0/32

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

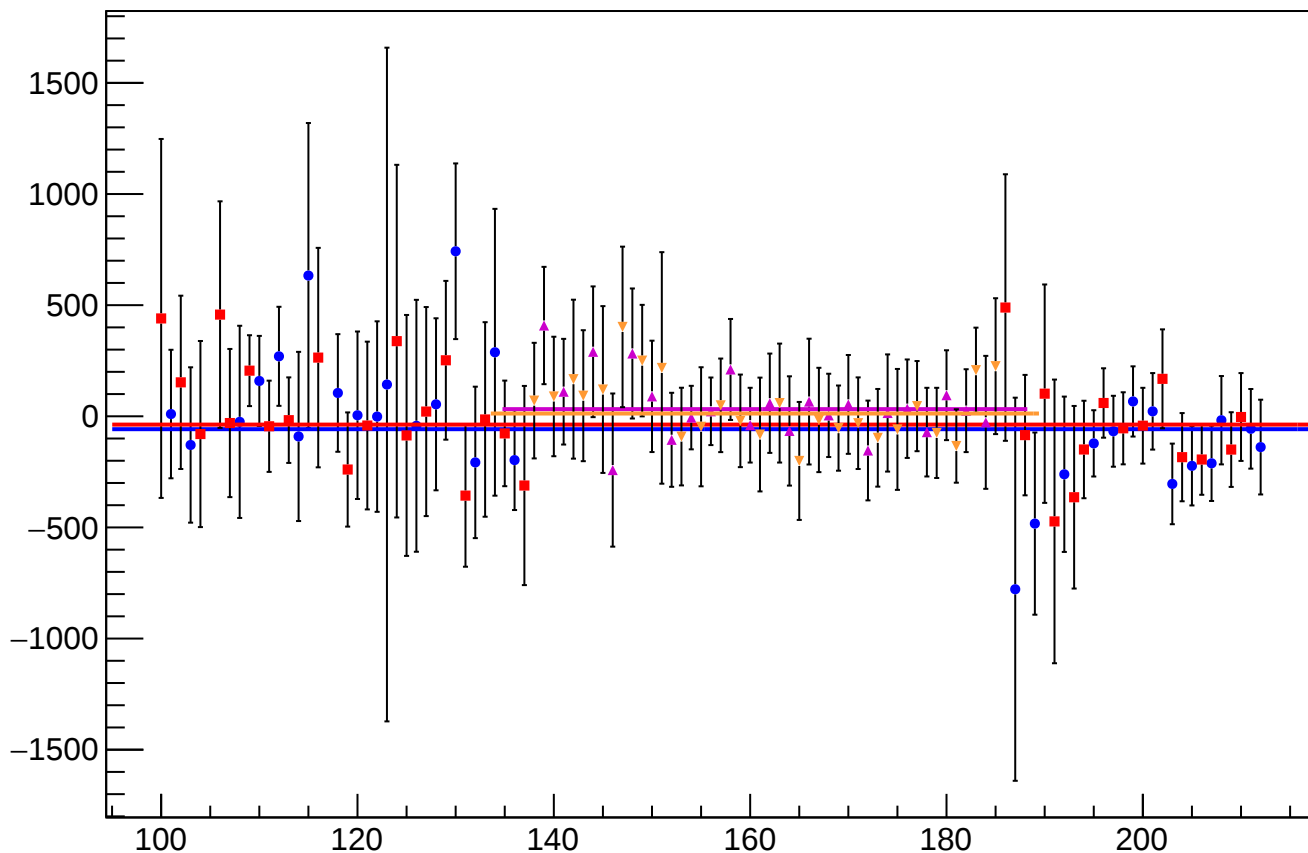
Right: 16.990 $\pm$ 0.002 χ^2 /NDF: 215249.4/62

In: 17.018 $\pm$ 0.002 χ^2 /NDF:210253.8/52

Out: 17.158 $\pm$ 0.002 χ^2 /NDF:210191.9/57

All: 17.089 $\pm$ 0.001 χ^2 /NDF: 422727.3/110

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.992 ± 44.630 χ^2/NDF : 16.8/29

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -37.384 ± 44.386 χ^2/NDF : 12.7/32

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

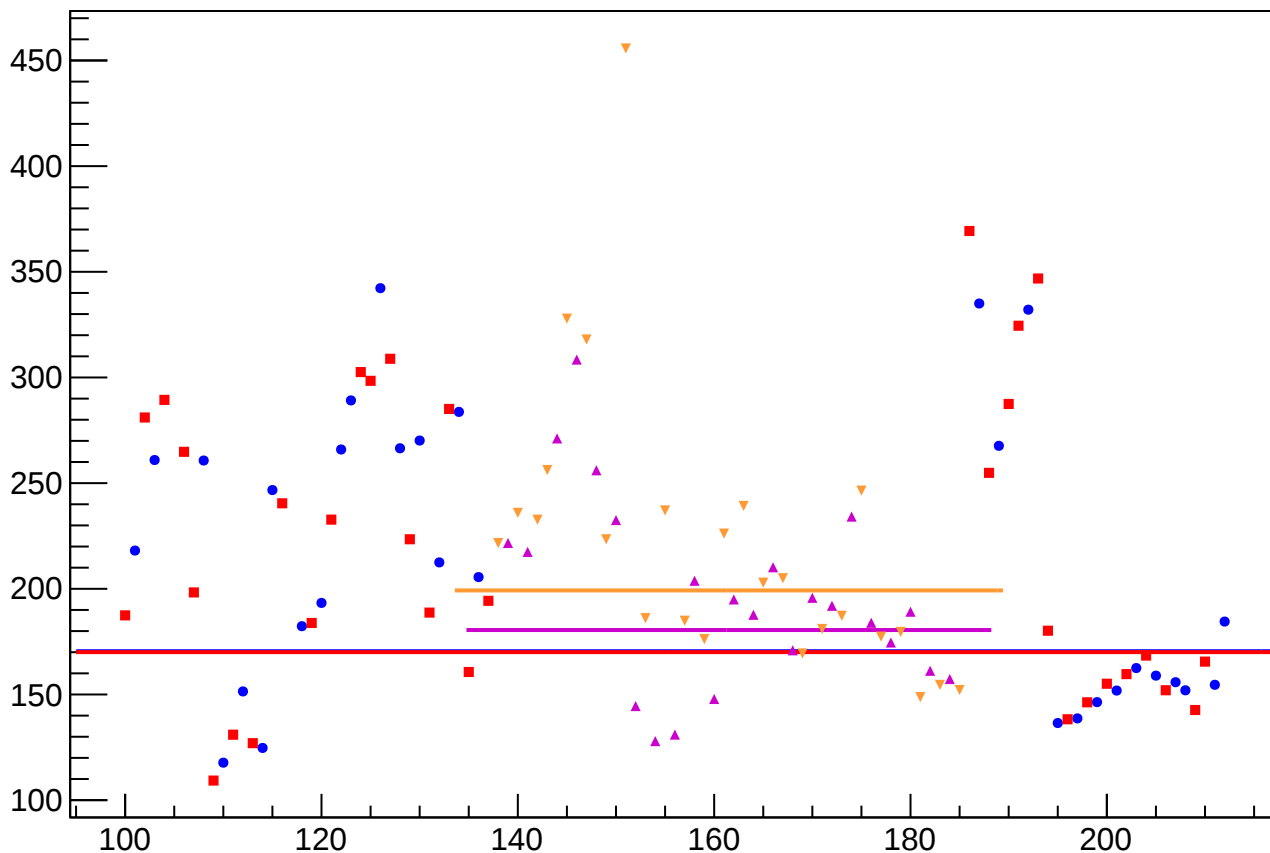
Right: -47.631 ± 31.471 χ^2/NDF : 29.5/62

In: -13.420 ± 31.734 χ^2/NDF : 25.7/52

Out: -14.447 ± 32.615 χ^2/NDF : 20.1/57

All: -13.919 ± 22.744 χ^2/NDF : 45.8/110

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.470+/-0.032 χ^2/NDF : 2112079.6/29

Left Out: 199.241+/-0.034 χ^2/NDF :1764097.7/24

Right Out: 170.054+/-0.031 χ^2/NDF : 2764035.4/32

Left In: 180.494+/-0.032 χ^2/NDF :1593784.1/22

Left: 189.274+/-0.023 χ^2/NDF : 3519511.1/47

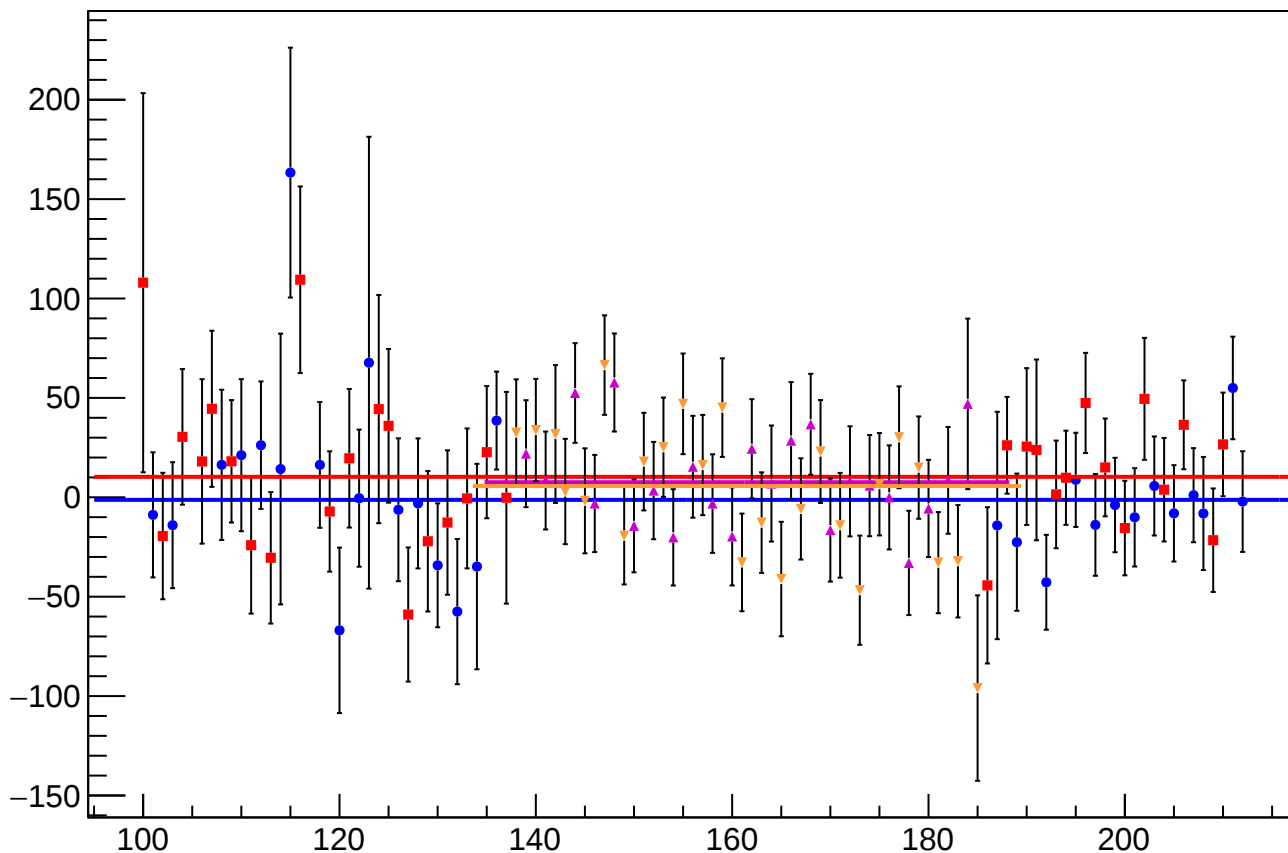
Right: 170.261+/-0.022 χ^2/NDF : 4876202.0/62

In: 175.426+/-0.022 χ^2/NDF :3755748.4/52

Out: 183.482+/-0.023 χ^2/NDF :4925990.1/57

All: 179.343+/-0.016 χ^2/NDF : 8744417.7/110

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.278 ± 5.603 χ^2/NDF : 27.1/29

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 10.300 ± 5.510 χ^2/NDF : 28.1/32

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

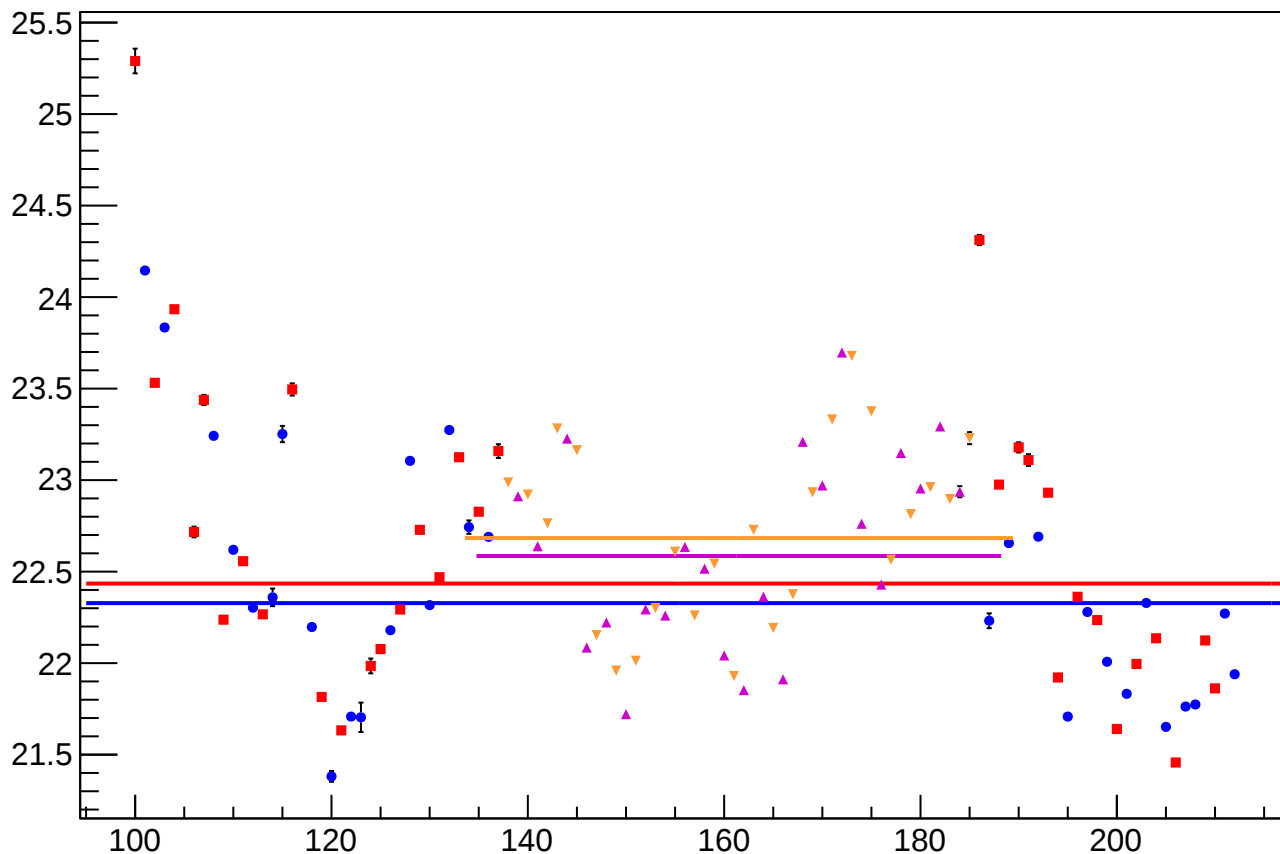
Right: 4.608 ± 3.929 χ^2/NDF : 57.4/62

In: 3.320 ± 3.889 χ^2/NDF : 46.7/52

Out: 7.887 ± 3.812 χ^2/NDF : 64.8/57

All: 5.649 ± 2.722 χ^2/NDF : 112.3/110

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.328 $\pm$ 0.004 χ^2/NDF : 24882.7/29

Left Out: 22.683 $\pm$ 0.004 χ^2/NDF : 16318.1/24

Right Out: 22.435 $\pm$ 0.004 χ^2/NDF : 30836.8/32

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

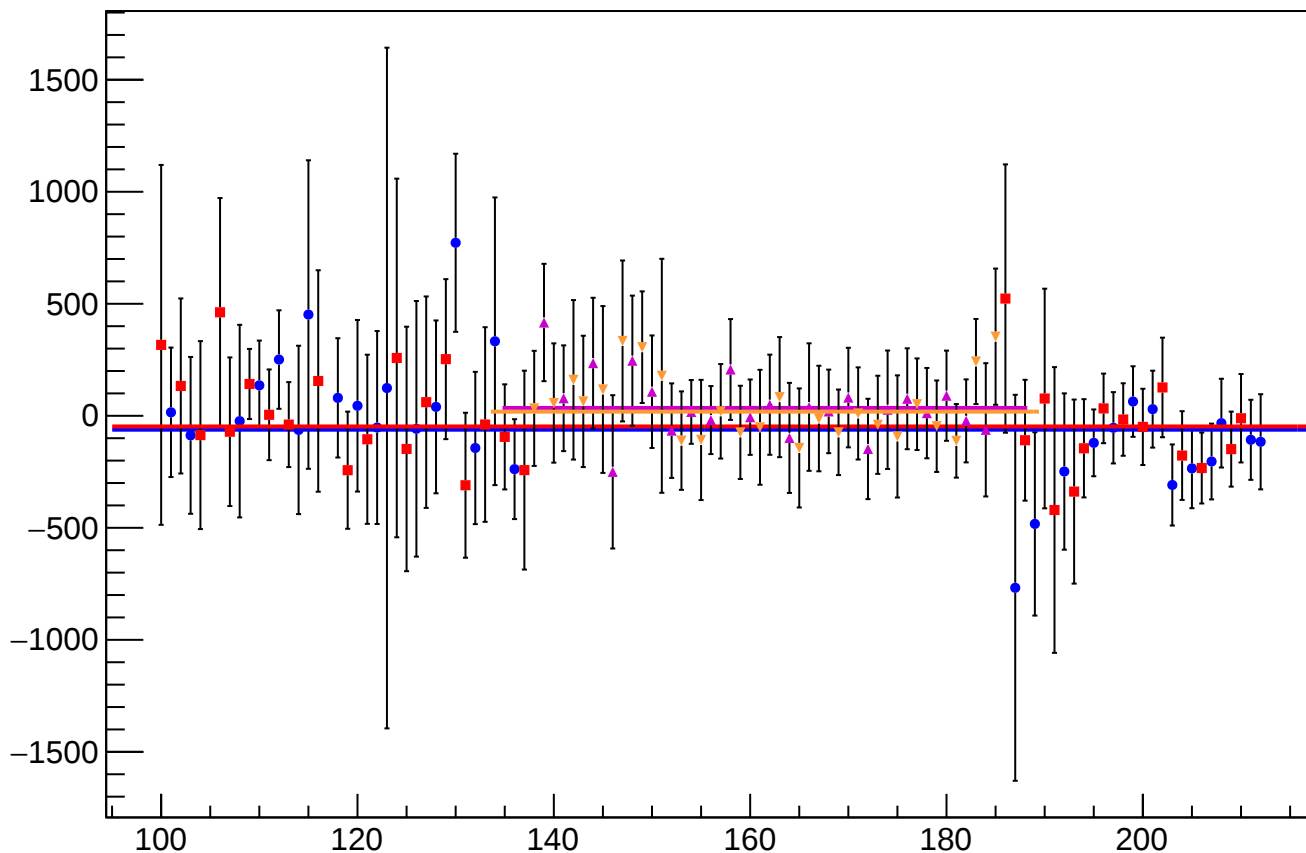
Right: 22.382 $\pm$ 0.003 χ^2/NDF : 56088.3/62

In: 22.461 $\pm$ 0.003 χ^2/NDF : 45156.1/52

Out: 22.564 $\pm$ 0.003 χ^2/NDF : 49280.9/57

All: 22.514 $\pm$ 0.002 χ^2/NDF : 95153.9/110

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.931 ± 44.501 χ^2/NDF : 16.3/29

Left Out: 18.633 ± 48.006 χ^2/NDF : 7.6/24

Right Out: -47.591 ± 44.196 χ^2/NDF : 10.7/32

Left In: 35.046 ± 45.063 χ^2/NDF : 6.3/22

Left: 27.358 ± 32.855 χ^2/NDF : 13.9/47

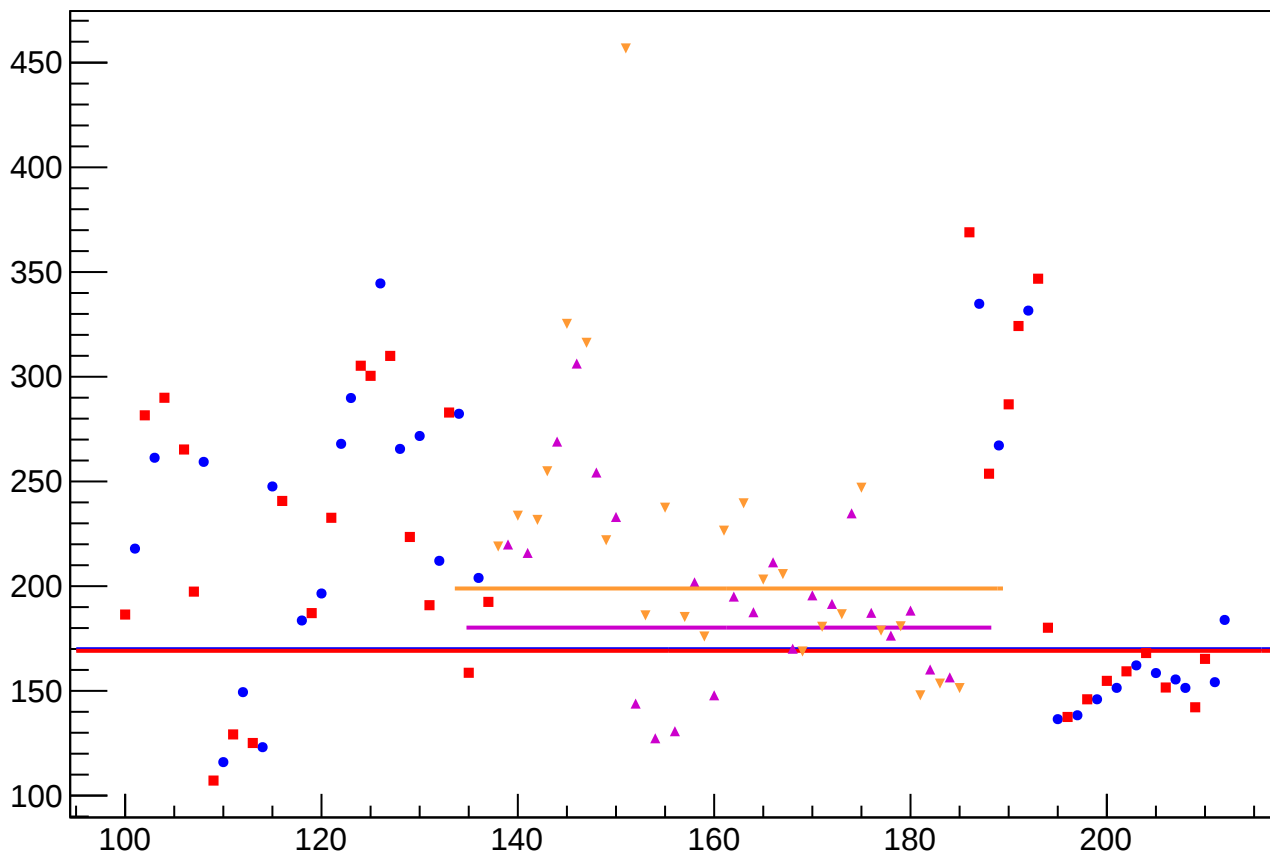
Right: -54.712 ± 31.358 χ^2/NDF : 27.1/62

In: -14.051 ± 31.664 χ^2/NDF : 25.0/52

Out: -17.211 ± 32.515 χ^2/NDF : 19.4/57

All: -15.589 ± 22.685 χ^2/NDF : 44.3/110

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.901 $\pm$ 0.031 χ^2 /NDF: 2141646.4/29

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF: 1762454.6/24

Right Out: 169.131 $\pm$ 0.031 χ^2 /NDF: 2830648.4/32

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

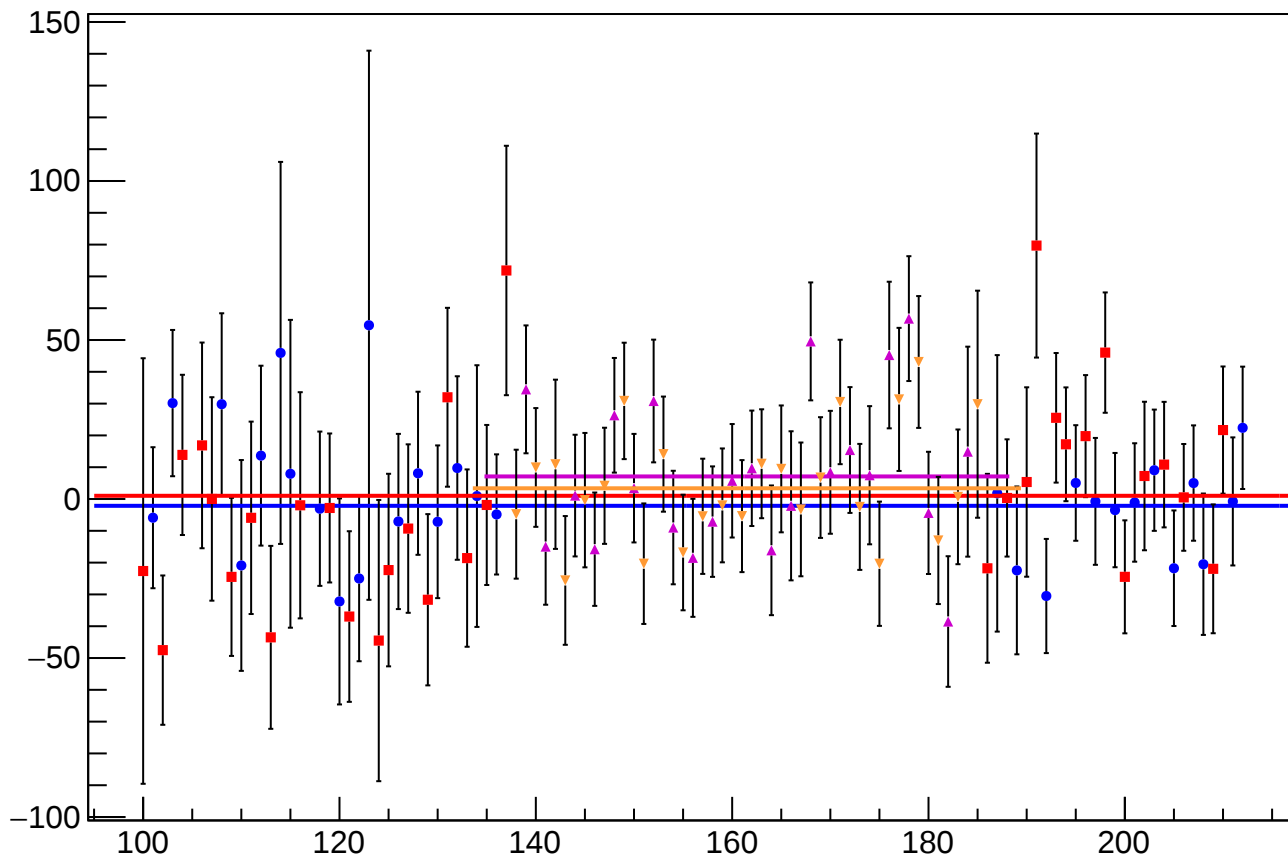
Right: 169.513 $\pm$ 0.022 χ^2 /NDF: 4972596.3/62

In: 174.989 $\pm$ 0.022 χ^2 /NDF: 3783617.4/52

Out: 182.783 $\pm$ 0.023 χ^2 /NDF: 5009111.9/57

All: 178.783 $\pm$ 0.016 χ^2 /NDF: 8851709.4/110

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.139 ± 4.302 $\chi^2/\text{NDF}: 14.3/29$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 1.012 ± 4.235 $\chi^2/\text{NDF}: 37.9/32$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

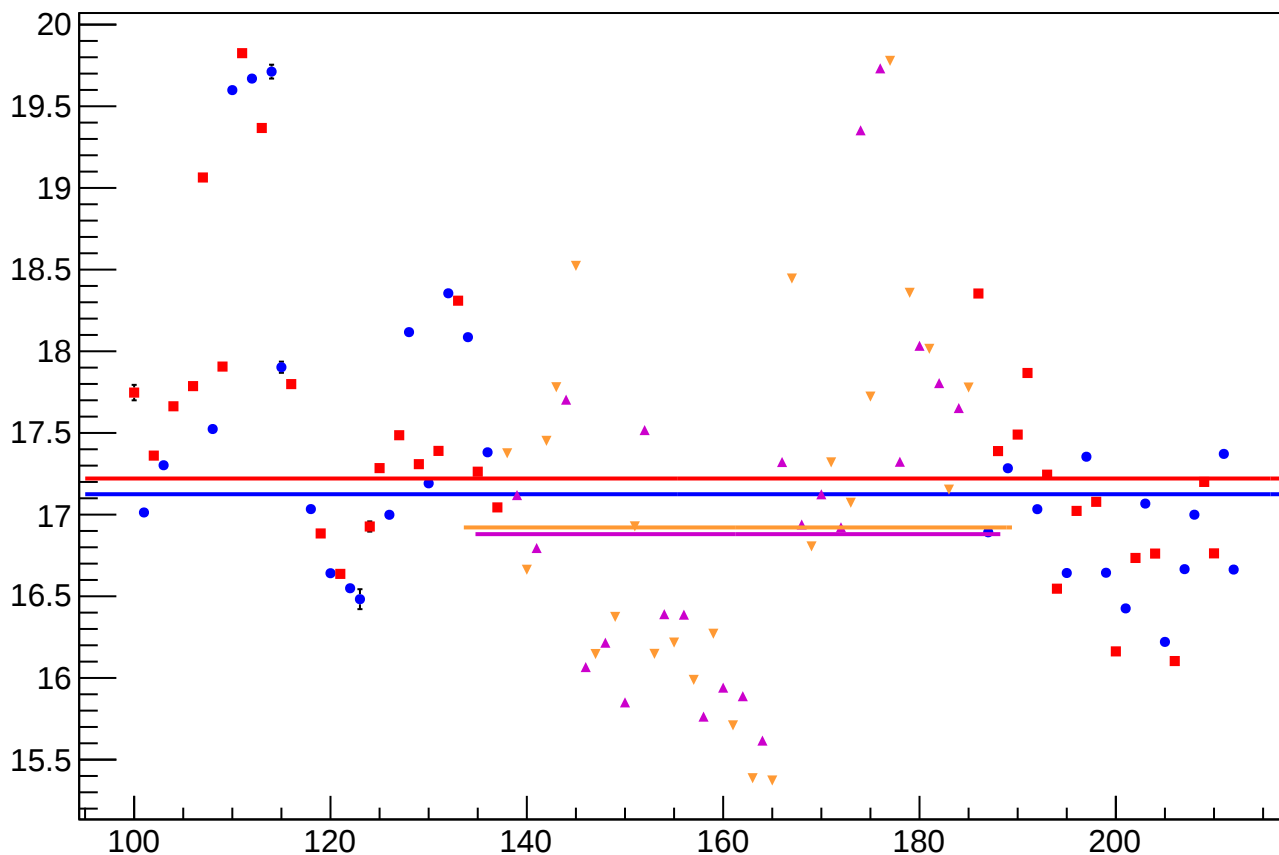
Right: -0.539 ± 3.018 $\chi^2/\text{NDF}: 52.5/62$

In: 2.761 ± 2.948 $\chi^2/\text{NDF}: 49.3/52$

Out: 2.275 ± 2.887 $\chi^2/\text{NDF}: 56.9/57$

All: 2.513 ± 2.063 $\chi^2/\text{NDF}: 106.2/110$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.125 $\pm$ 0.003 χ^2 /NDF: 55696.8/29

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.221 $\pm$ 0.003 χ^2 /NDF: 66958.1/32

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

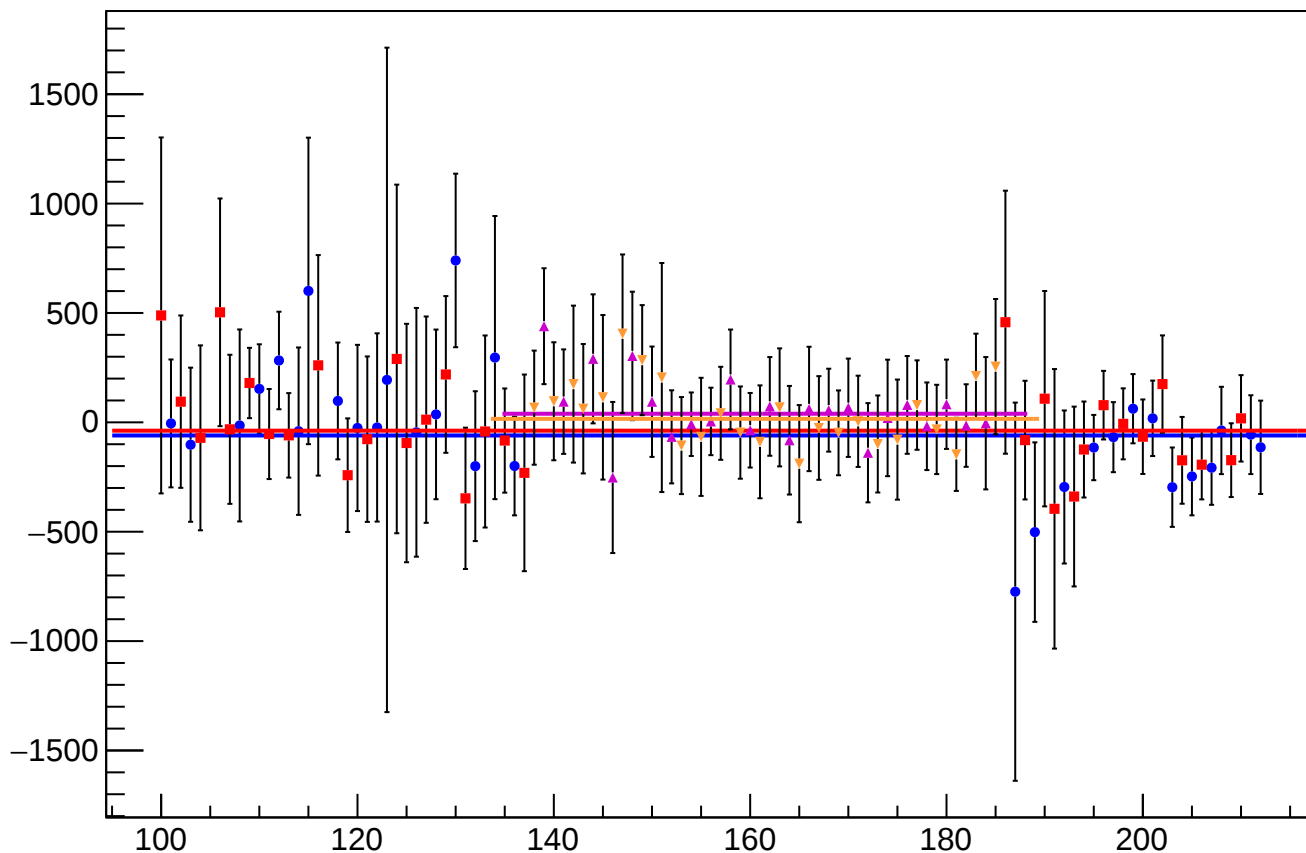
Right: 17.174 $\pm$ 0.002 χ^2 /NDF: 123162.9/62

In: 16.995 $\pm$ 0.002 χ^2 /NDF:180858.6/52

Out: 17.061 $\pm$ 0.002 χ^2 /NDF:211306.7/57

All: 17.029 $\pm$ 0.001 χ^2 /NDF: 392669.6/110

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.020 ± 44.761 χ^2/NDF : 16.7/29

Left Out: 15.970 ± 48.503 χ^2/NDF : 7.4/24

Right Out: -38.003 ± 44.533 χ^2/NDF : 11.8/32

Left In: 39.377 ± 45.571 χ^2/NDF : 6.9/22

Left: 28.402 ± 33.212 χ^2/NDF : 14.4/47

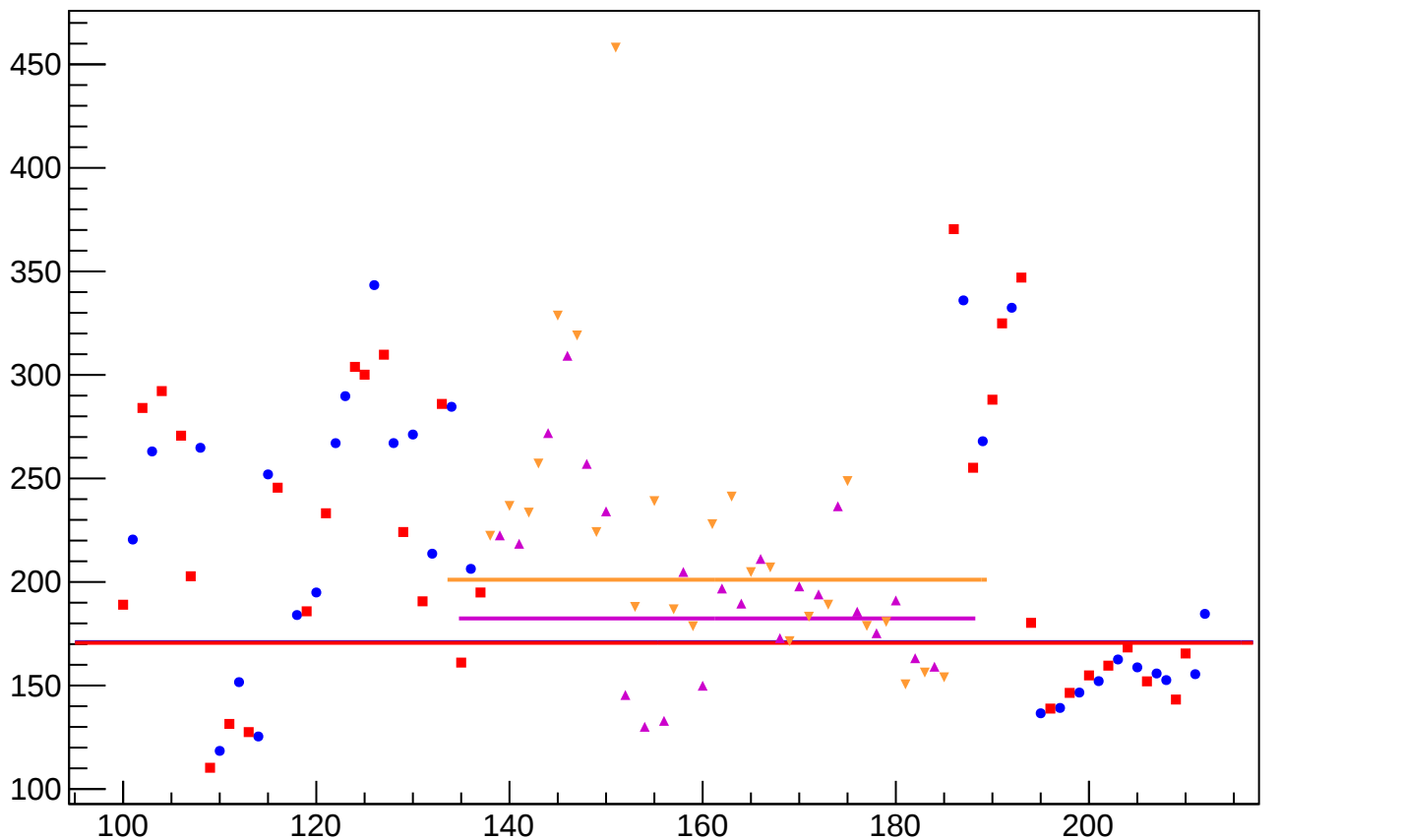
Right: -48.955 ± 31.570 χ^2/NDF : 28.6/62

In: -11.212 ± 31.933 χ^2/NDF : 26.0/52

Out: -13.316 ± 32.804 χ^2/NDF : 19.8/57

All: -12.236 ± 22.882 χ^2/NDF : 45.8/110

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.939+/-0.032 χ^2/NDF : 2126644.2/29

Left Out: 201.091+/-0.034 χ^2/NDF :1731069.1/24

Right Out: 170.619+/-0.031 χ^2/NDF : 2774817.7/32

Left In: 182.396+/-0.032 χ^2/NDF :1548907.7/22

Left: 191.161+/-0.023 χ^2/NDF : 3437793.2/47

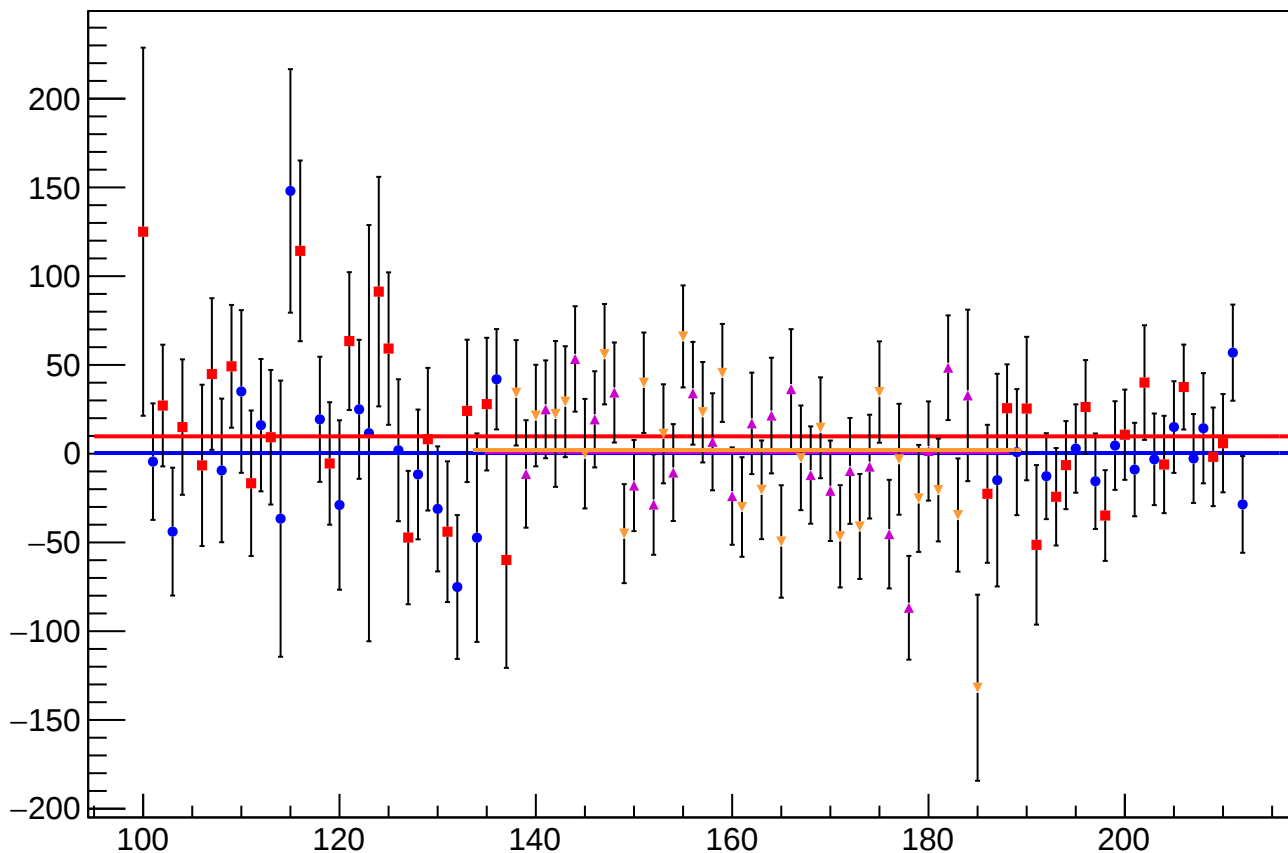
Right: 170.778+/-0.022 χ^2/NDF : 4901513.1/62

In: 176.565+/-0.023 χ^2/NDF :3739896.4/52

Out: 184.557+/-0.023 χ^2/NDF :4934200.6/57

All: 180.454+/-0.016 χ^2/NDF : 8735058.1/110

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.379+/-6.047 χ^2/NDF : 22.4/29

Left Out: 2.054+/-5.970 χ^2/NDF :39.4/24

Right Out: 9.764+/-5.919 χ^2/NDF : 30.4/32

Left In: 0.900+/-6.069 χ^2/NDF :27.1/22

Left: 1.487+/-4.256 χ^2/NDF : 66.5/47

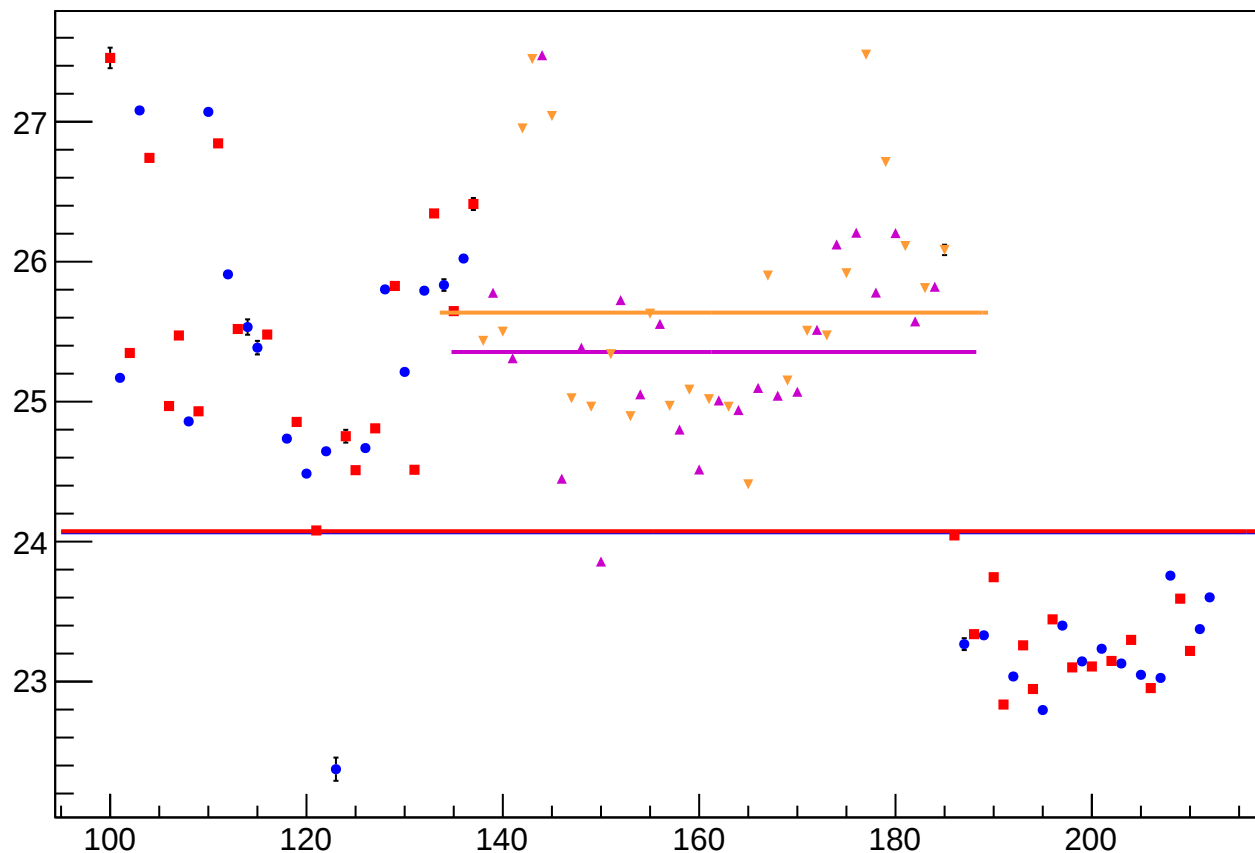
Right: 5.172+/-4.230 χ^2/NDF : 54.0/62

In: 0.639+/-4.284 χ^2/NDF :49.5/52

Out: 5.942+/-4.203 χ^2/NDF :70.6/57

All: 3.341+/-3.000 χ^2/NDF : 120.9/110

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.067 $\pm$ 0.004 χ^2 /NDF: 83081.8/29

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24

Right Out: 24.074 $\pm$ 0.004 χ^2 /NDF: 77960.9/32

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

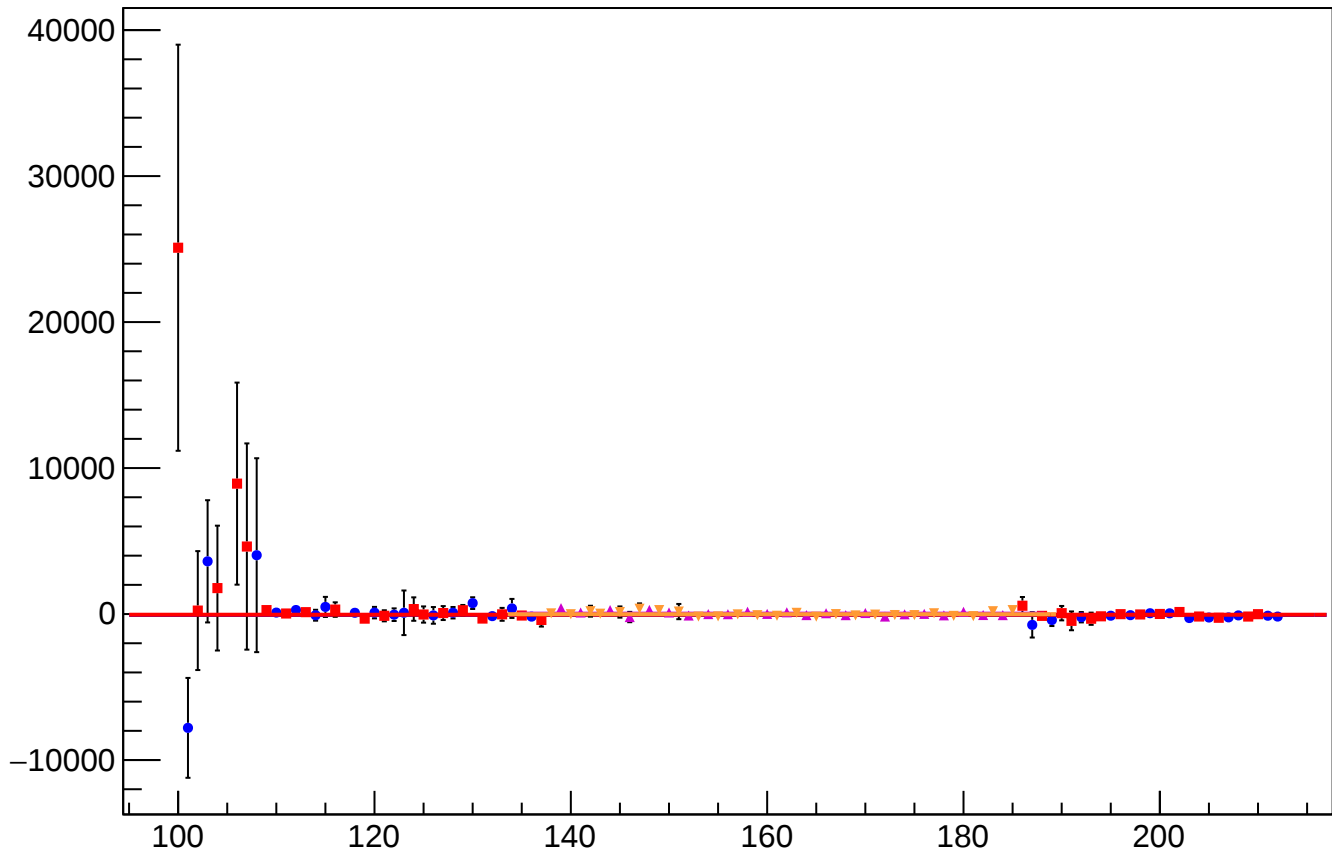
Right: 24.070 $\pm$ 0.003 χ^2 /NDF: 161044.3/62

In: 24.708 $\pm$ 0.003 χ^2 /NDF:158059.6/52

Out: 24.848 $\pm$ 0.003 χ^2 /NDF:182126.9/57

All: 24.780 $\pm$ 0.002 χ^2 /NDF: 341277.1/110

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.917 $\pm$ 46.763 χ^2 /NDF: 21.5/29

Left Out: -12.820 $\pm$ 48.216 χ^2 /NDF: 7.9/24

Right Out: -46.586 $\pm$ 47.296 χ^2 /NDF: 18.3/32

Left In: 26.836 $\pm$ 45.876 χ^2 /NDF: 7.5/22

Left: 7.994 $\pm$ 33.236 χ^2 /NDF: 15.7/47

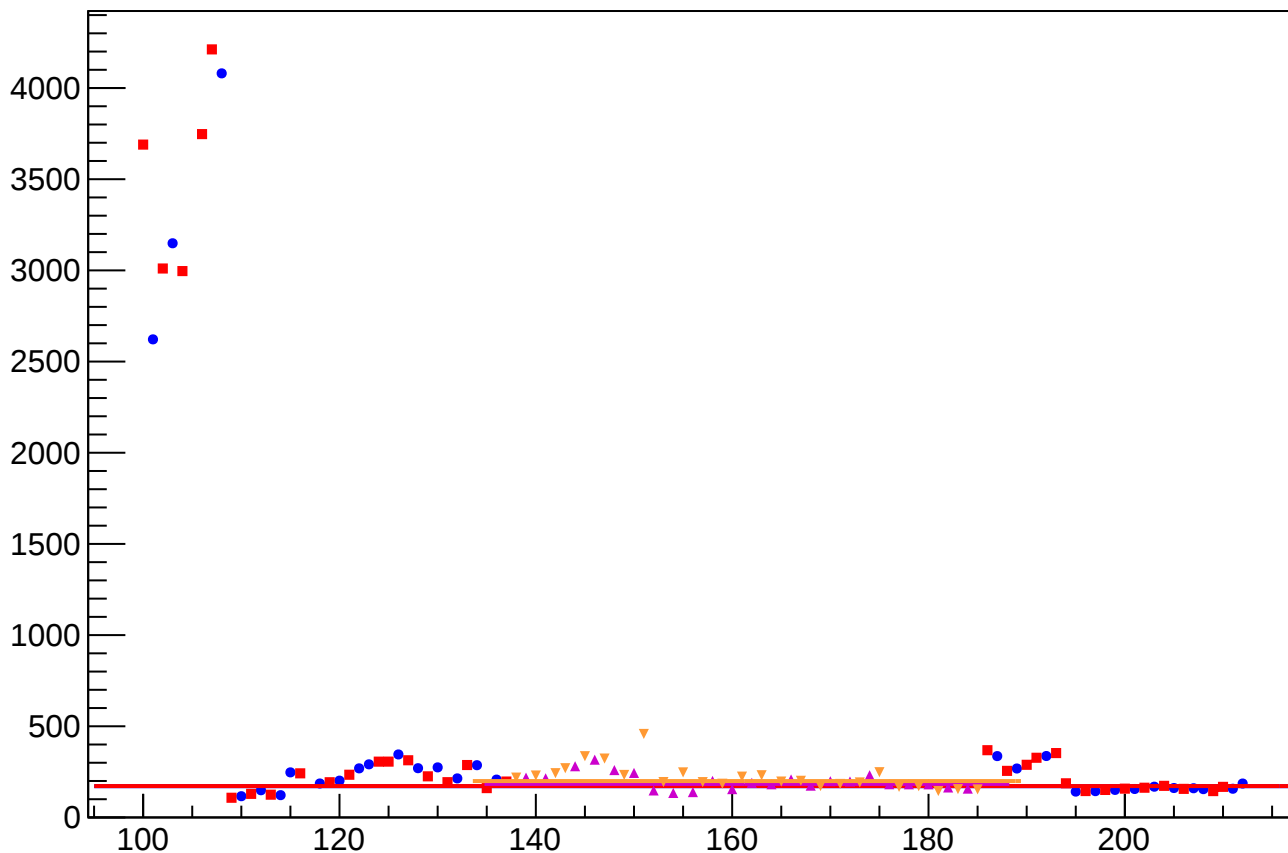
Right: -55.856 $\pm$ 33.253 χ^2 /NDF: 39.9/62

In: -18.162 $\pm$ 32.748 χ^2 /NDF: 30.9/52

Out: -30.028 $\pm$ 33.764 χ^2 /NDF: 26.4/57

All: -23.914 $\pm$ 23.507 χ^2 /NDF: 57.4/110

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.368+/-0.033 χ^2/NDF : 4521279.7/29

Left Out: 199.536+/-0.034 χ^2/NDF :1880548.8/24

Right Out: 172.068+/-0.033 χ^2/NDF : 5393912.0/32

Left In: 184.031+/-0.032 χ^2/NDF :1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

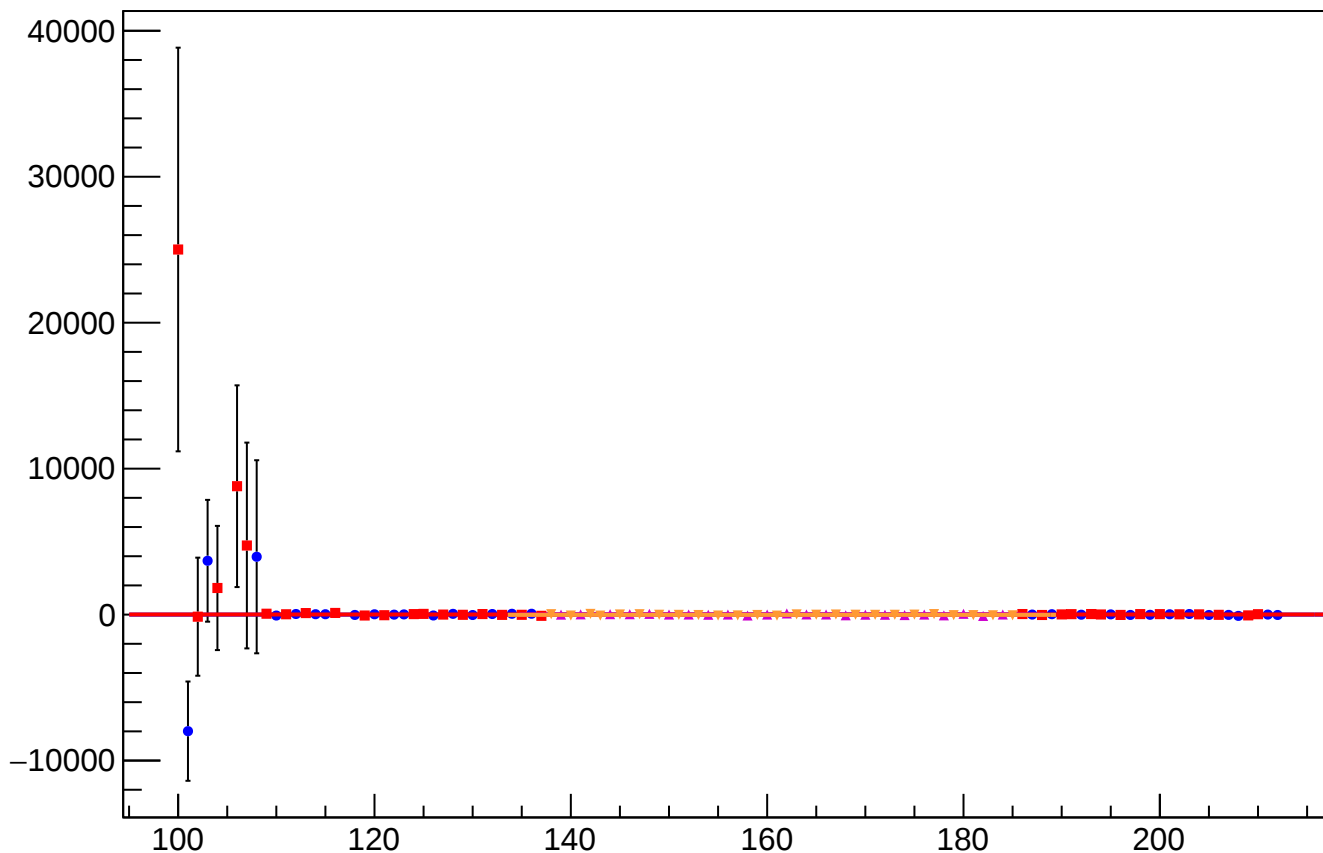
Right: 171.714+/-0.024 χ^2/NDF : 9915413.4/62

In: 177.821+/-0.023 χ^2/NDF :6019474.0/52

Out: 185.537+/-0.024 χ^2/NDF :7605239.6/57

All: 181.561+/-0.017 χ^2/NDF : 13678537.7/11

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.892 ± 7.243 χ^2/NDF : 31.2/29

Left Out: -17.580 ± 6.694 χ^2/NDF : 22.3/24

Right Out: 8.431 ± 7.199 χ^2/NDF : 34.7/32

Left In: 1.038 ± 6.880 χ^2/NDF : 32.4/22

Left: -8.527 ± 4.798 χ^2/NDF : 58.5/47

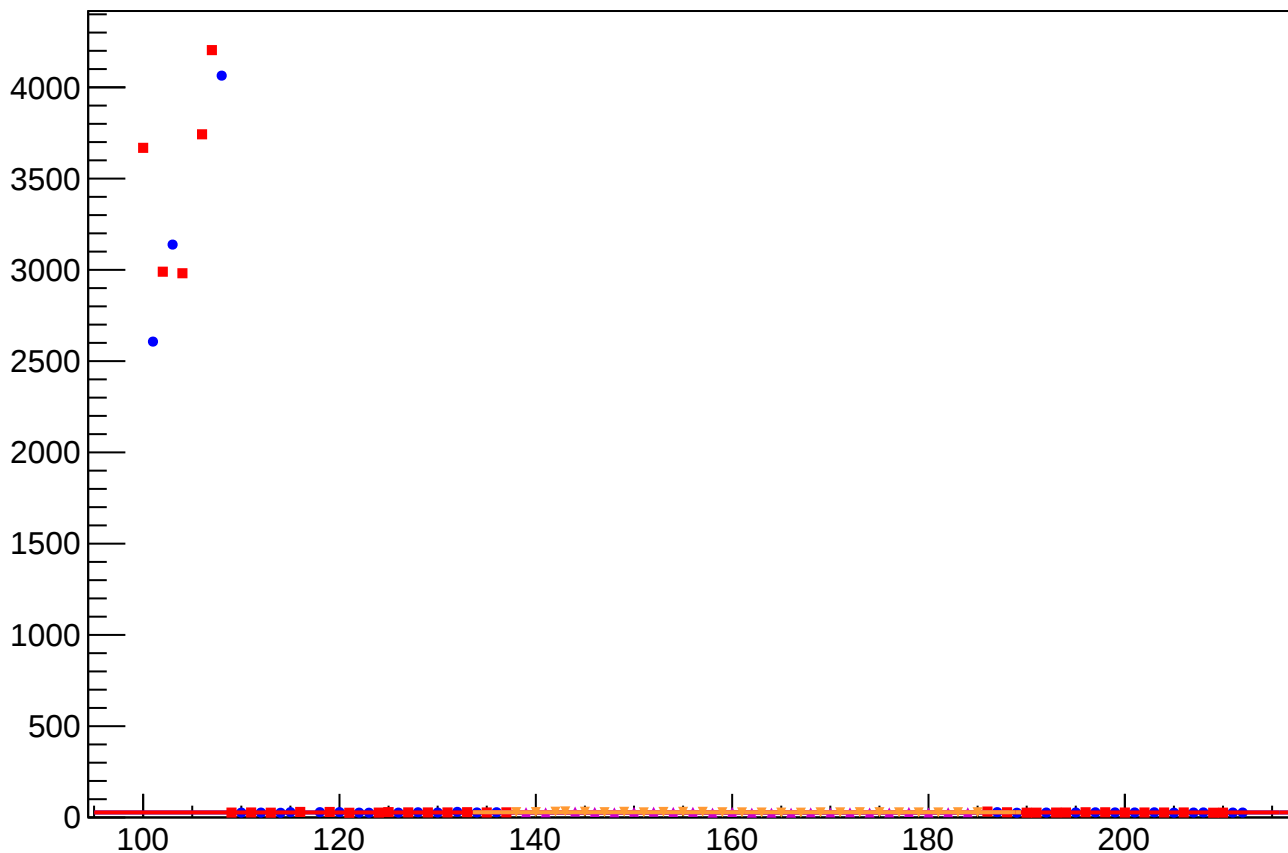
Right: 3.798 ± 5.106 χ^2/NDF : 66.7/62

In: 0.122 ± 4.988 χ^2/NDF : 63.6/52

Out: -5.519 ± 4.902 χ^2/NDF : 64.0/57

All: -2.748 ± 3.496 χ^2/NDF : 128.3/110

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.442 $\pm$ 0.005 χ^2 /NDF: 3042512.2/29

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.428 $\pm$ 0.005 χ^2 /NDF: 3512227.9/32

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

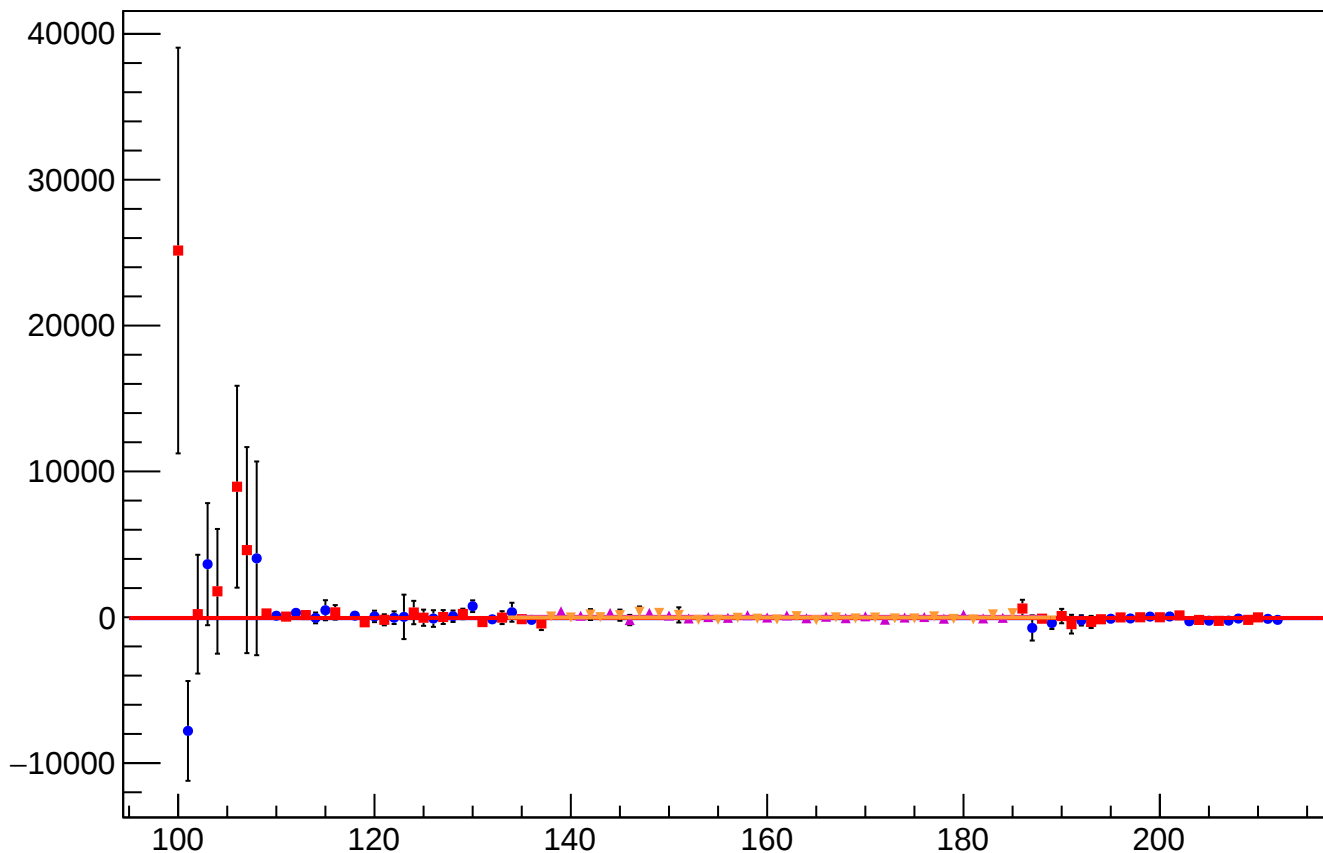
Right: 27.435 $\pm$ 0.004 χ^2 /NDF: 6554743.8/62

In: 28.089 $\pm$ 0.004 χ^2 /NDF: 3197634.9/52

Out: 28.105 $\pm$ 0.003 χ^2 /NDF: 3655733.3/57

All: 28.097 $\pm$ 0.002 χ^2 /NDF: 6853379.1/110

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -63.158+/-46.620 χ^2/NDF : 21.8/29

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: -48.381+/-47.158 χ^2/NDF : 19.0/32

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

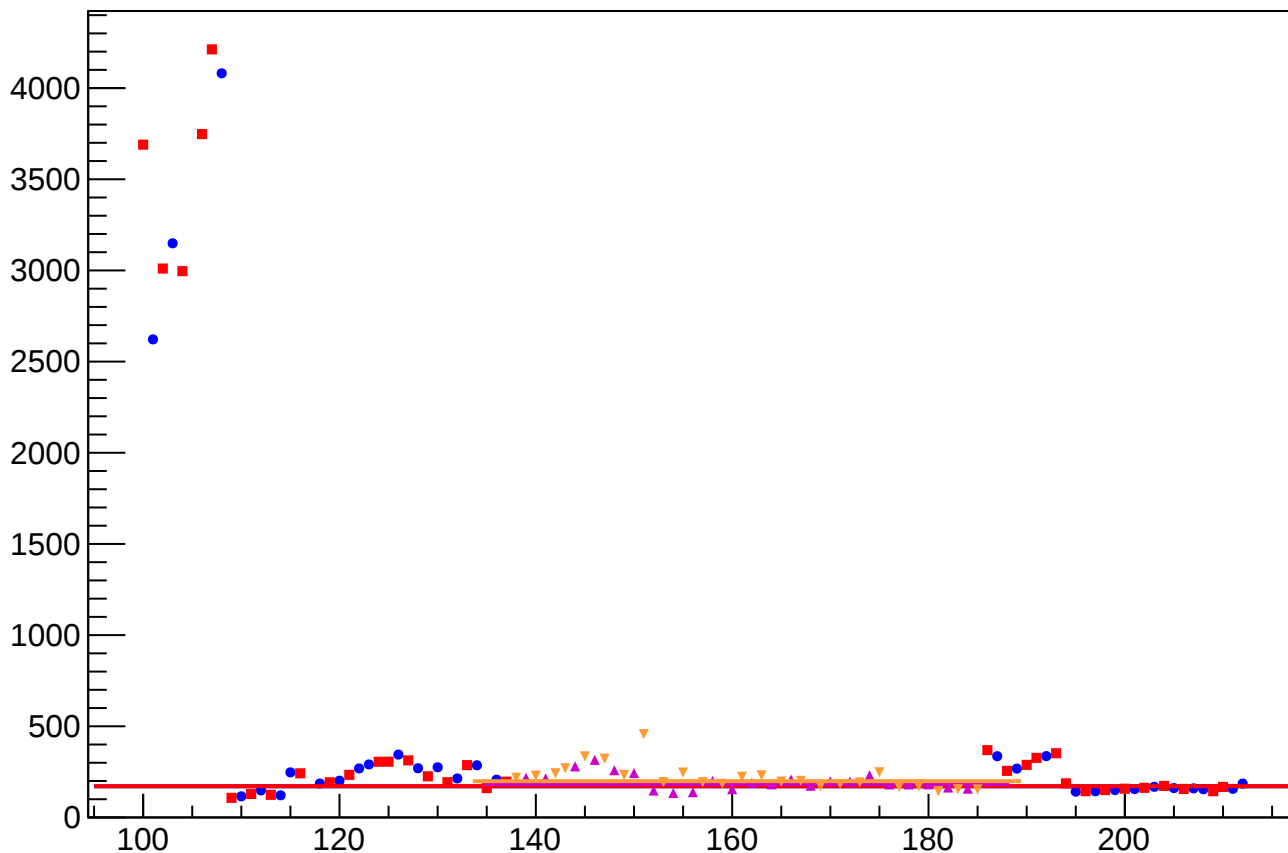
Right: -55.854+/-33.154 χ^2/NDF : 40.8/62

In: -17.259+/-32.666 χ^2/NDF : 31.5/52

Out: -32.260+/-33.677 χ^2/NDF : 27.9/57

All: -24.531+/-23.448 χ^2/NDF : 59.5/110

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.804 $\pm$ 0.033 χ^2 /NDF: 4534684.2/29

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 171.512 $\pm$ 0.033 χ^2 /NDF: 5411560.7/32

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

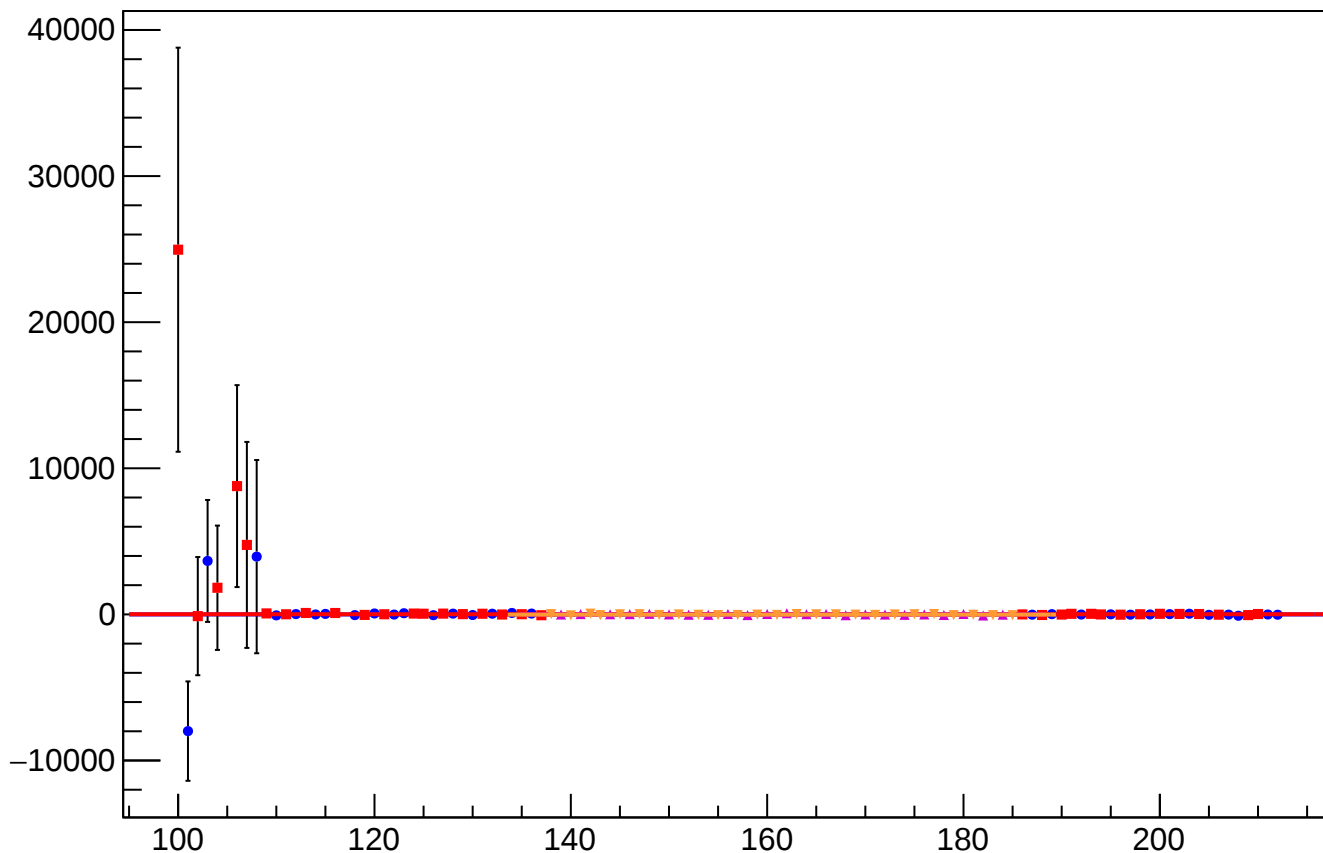
Right: 171.154 $\pm$ 0.023 χ^2 /NDF: 9946473.0/62

In: 177.352 $\pm$ 0.023 χ^2 /NDF:6035089.7/52

Out: 185.028 $\pm$ 0.024 χ^2 /NDF:7627164.3/57

All: 181.073 $\pm$ 0.017 χ^2 /NDF: 13715787.1/111

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.184+/-7.210 χ^2/NDF : 34.9/29

Left Out: -15.006+/-6.723 χ^2/NDF :17.5/24

Right Out: 11.413+/-7.180 χ^2/NDF : 30.6/32

Left In: -0.702+/-6.909 χ^2/NDF :26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

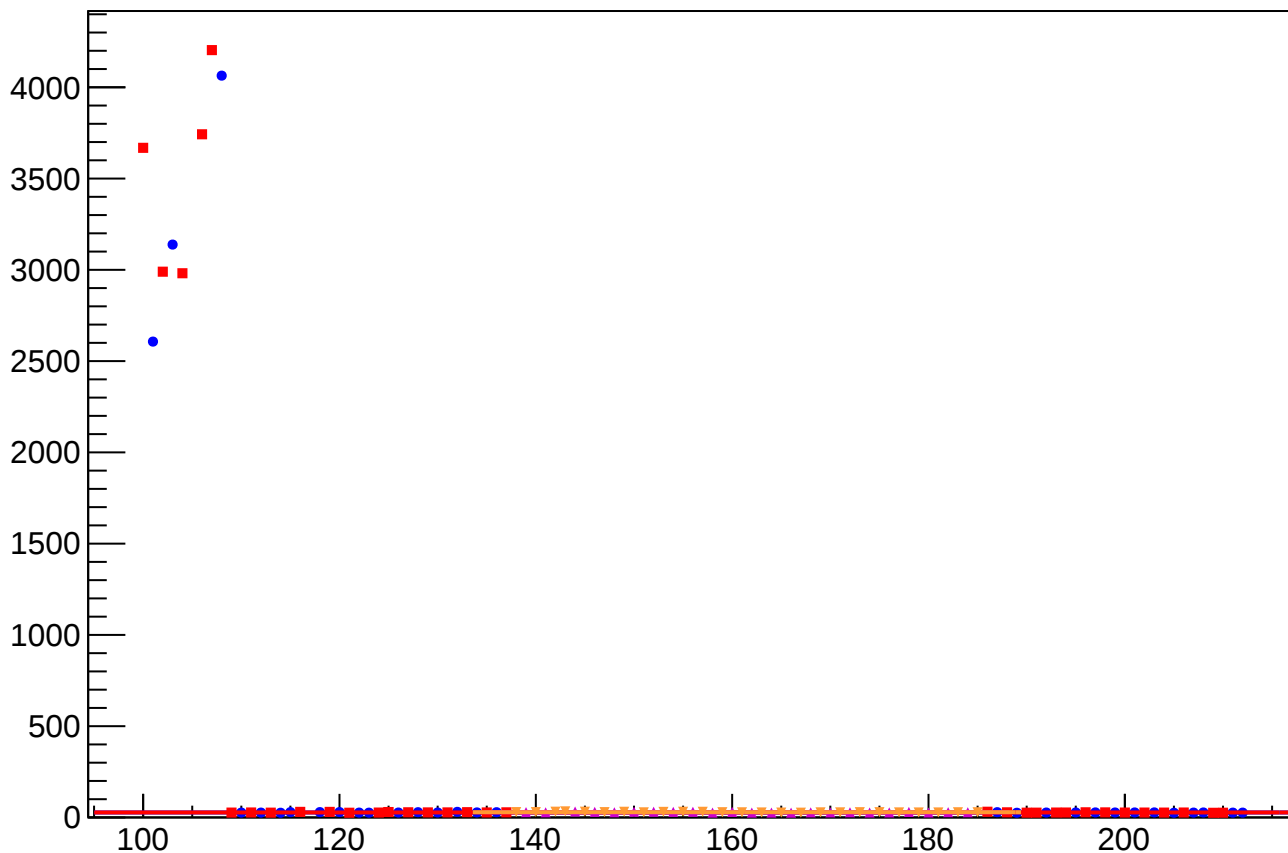
Right: 4.145+/-5.088 χ^2/NDF : 67.6/62

In: -1.890+/-4.989 χ^2/NDF :61.3/52

Out: -2.663+/-4.908 χ^2/NDF :55.3/57

All: -2.283+/-3.498 χ^2/NDF : 116.6/110

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.311+/-0.005 χ^2/NDF : 3050761.7/29

Left Out: 28.813+/-0.005 χ^2/NDF :121973.8/24

Right Out: 27.353+/-0.005 χ^2/NDF : 3516795.4/32

Left In: 28.792+/-0.005 χ^2/NDF :129393.1/22

Left: 28.803+/-0.003 χ^2/NDF : 251375.8/47

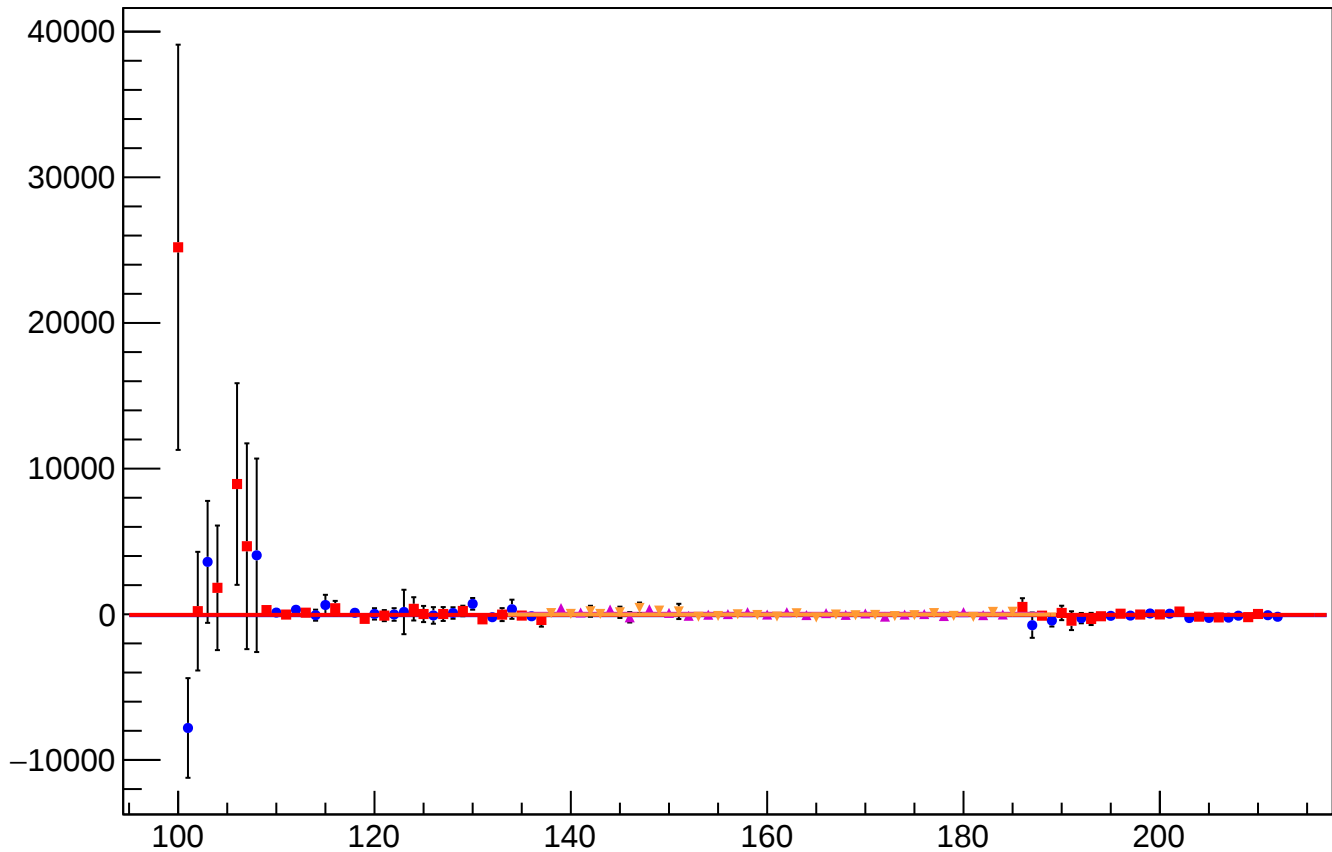
Right: 27.332+/-0.004 χ^2/NDF : 6567591.6/62

In: 28.083+/-0.004 χ^2/NDF :3224178.1/52

Out: 28.131+/-0.003 χ^2/NDF :3682801.9/57

All: 28.107+/-0.002 χ^2/NDF : 6907072.5/110

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.971+/-46.944 χ^2/NDF : 21.9/29

Left Out: -15.548+/-48.688 χ^2/NDF : 8.0/24

Right Out: -40.261+/-47.506 χ^2/NDF : 18.3/32

Left In: 31.170+/-46.359 χ^2/NDF : 8.2/22

Left: 8.955+/-33.574 χ^2/NDF : 16.6/47

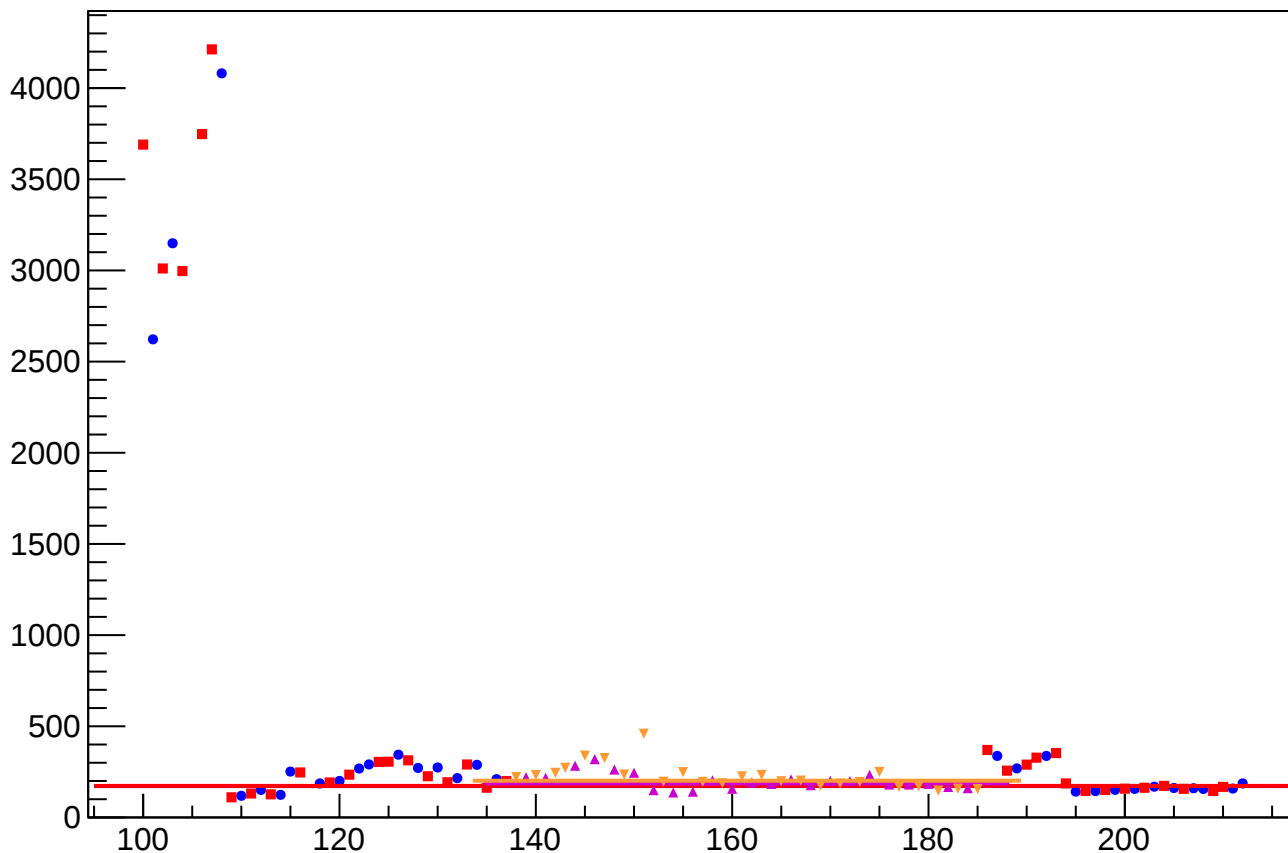
Right: -51.245+/-33.391 χ^2/NDF : 40.3/62

In: -14.817+/-32.986 χ^2/NDF : 32.1/52

Out: -28.208+/-34.002 χ^2/NDF : 26.4/57

All: -21.309+/-23.676 χ^2/NDF : 58.6/110

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.087+/-0.033 χ^2/NDF : 4502488.4/29

Left Out: 201.600+/-0.034 χ^2/NDF :1857453.2/24

Right Out: 172.986+/-0.034 χ^2/NDF : 5352885.0/32

Left In: 186.107+/-0.033 χ^2/NDF :1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

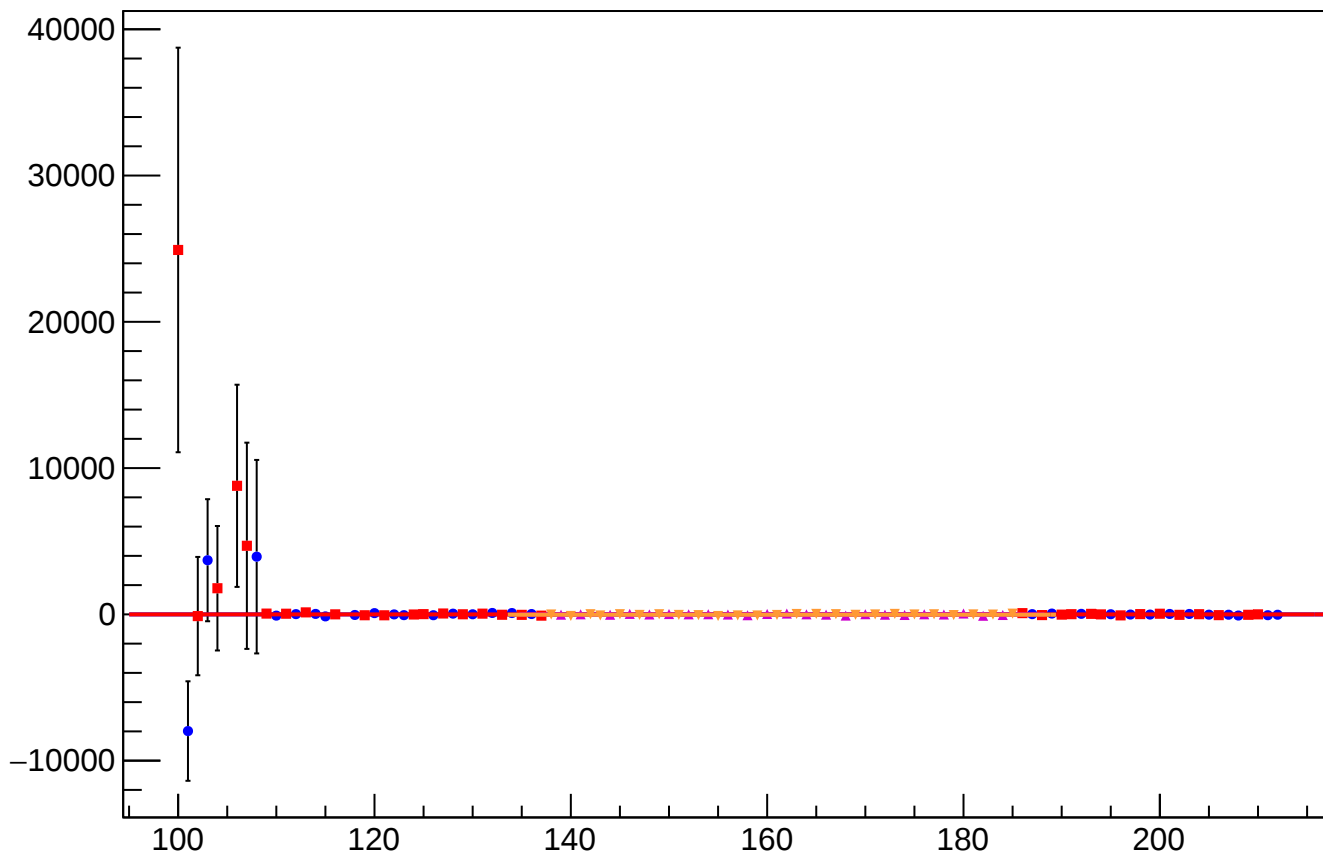
Right: 172.531+/-0.024 χ^2/NDF : 9855735.3/62

In: 179.185+/-0.023 χ^2/NDF :5984125.7/52

Out: 186.941+/-0.024 χ^2/NDF :7564231.8/57

All: 182.945+/-0.017 χ^2/NDF : 13601971.5/117

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.295 ± 8.811 χ^2/NDF : 30.9/29

Left Out: -23.360 ± 8.064 χ^2/NDF : 25.8/24

Right Out: -0.897 ± 8.768 χ^2/NDF : 35.1/32

Left In: -6.001 ± 8.309 χ^2/NDF : 21.1/22

Left: -14.939 ± 5.787 χ^2/NDF : 49.2/47

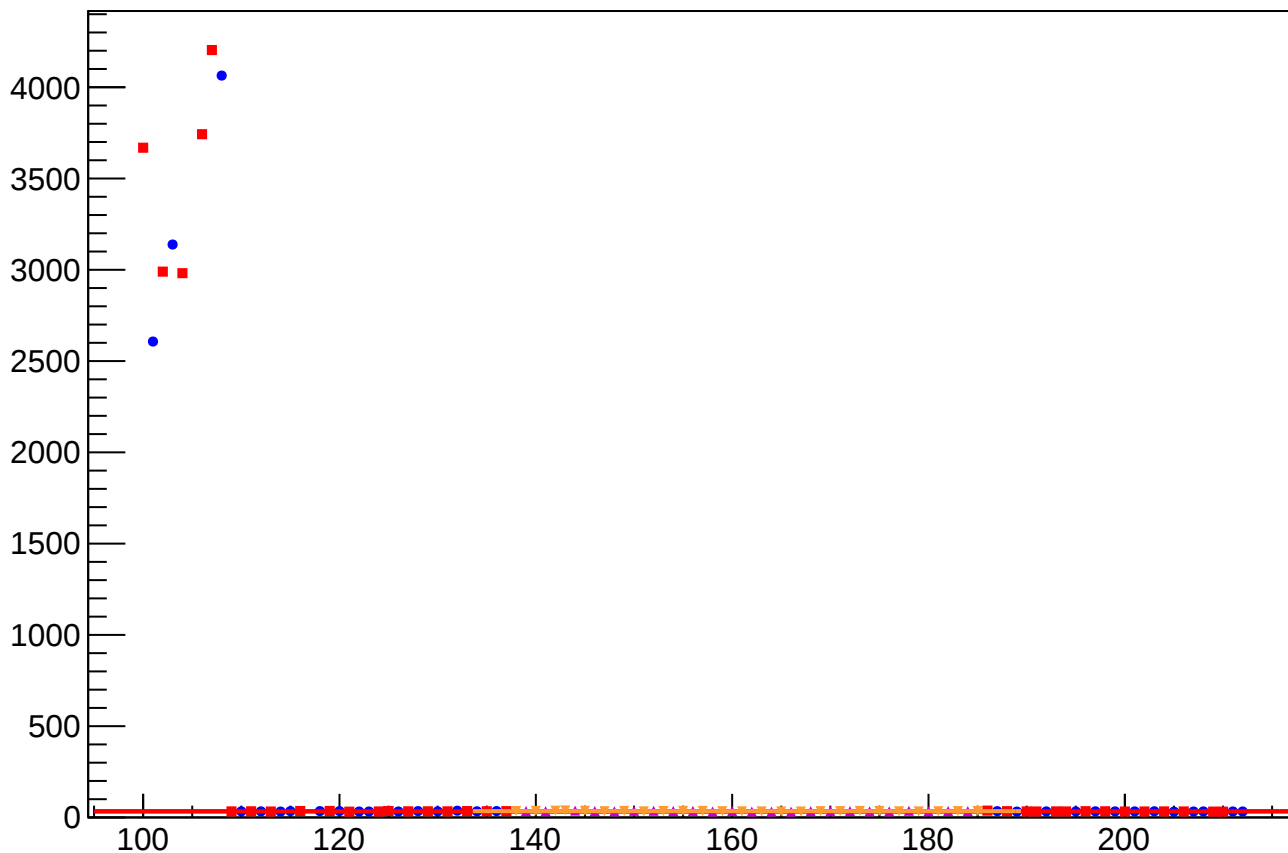
Right: -1.095 ± 6.215 χ^2/NDF : 66.0/62

In: -3.786 ± 6.045 χ^2/NDF : 52.2/52

Out: -13.066 ± 5.936 χ^2/NDF : 64.5/57

All: -8.511 ± 4.235 χ^2/NDF : 117.9/110

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.398+/-0.006 χ^2/NDF : 3020517.2/29

Left Out: 34.614+/-0.006 χ^2/NDF : 57946.1/24

Right Out: 33.450+/-0.006 χ^2/NDF : 3474057.1/32

Left In: 34.685+/-0.006 χ^2/NDF : 60315.2/22

Left: 34.649+/-0.004 χ^2/NDF : 118335.7/47

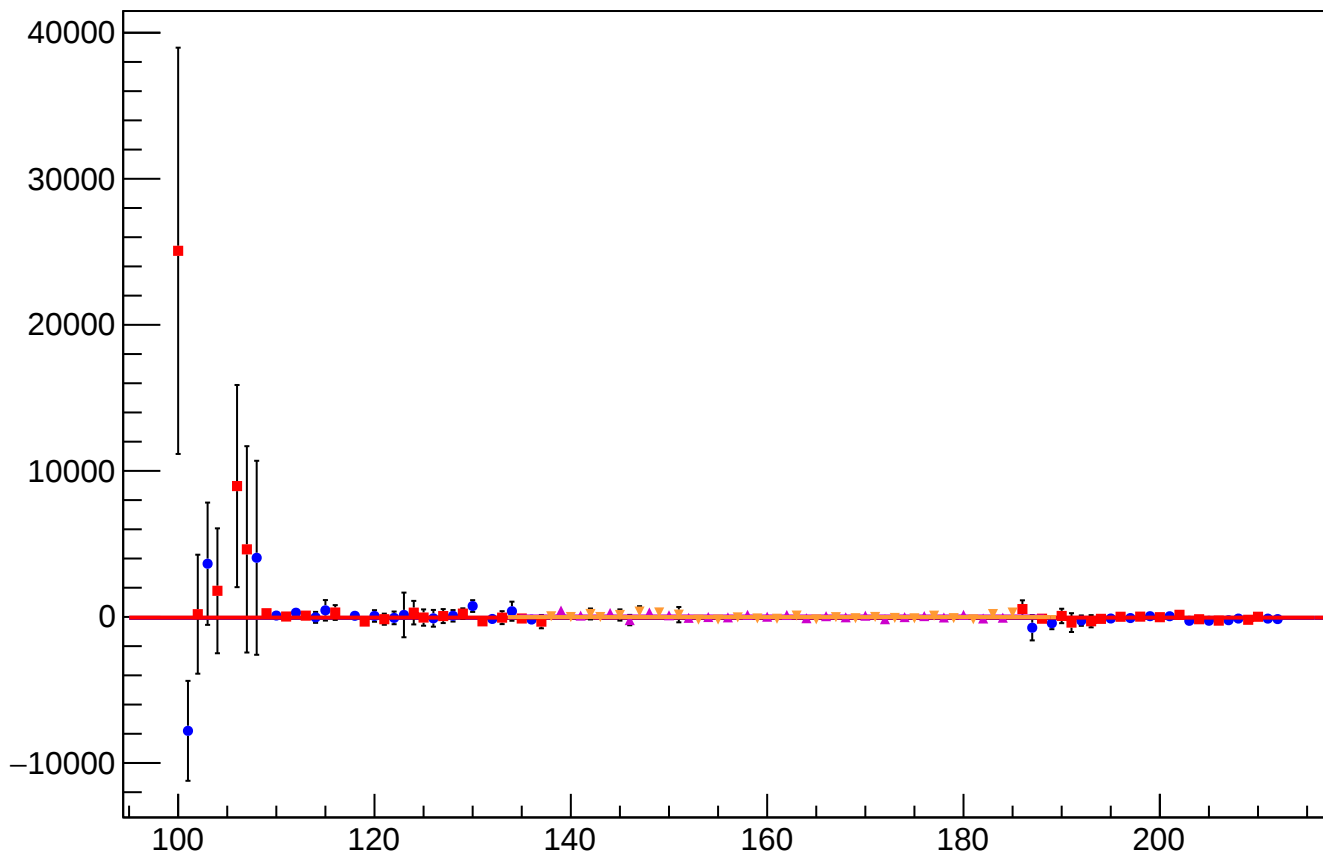
Right: 33.424+/-0.004 χ^2/NDF : 6494610.0/62

In: 34.079+/-0.004 χ^2/NDF : 3103433.8/52

Out: 34.081+/-0.004 χ^2/NDF : 3551106.9/57

All: 34.080+/-0.003 χ^2/NDF : 6654540.8/110

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -67.239+/-46.805 χ^2/NDF : 21.5/29

Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24

Right Out: -45.951+/-47.329 χ^2/NDF : 17.1/32

Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47

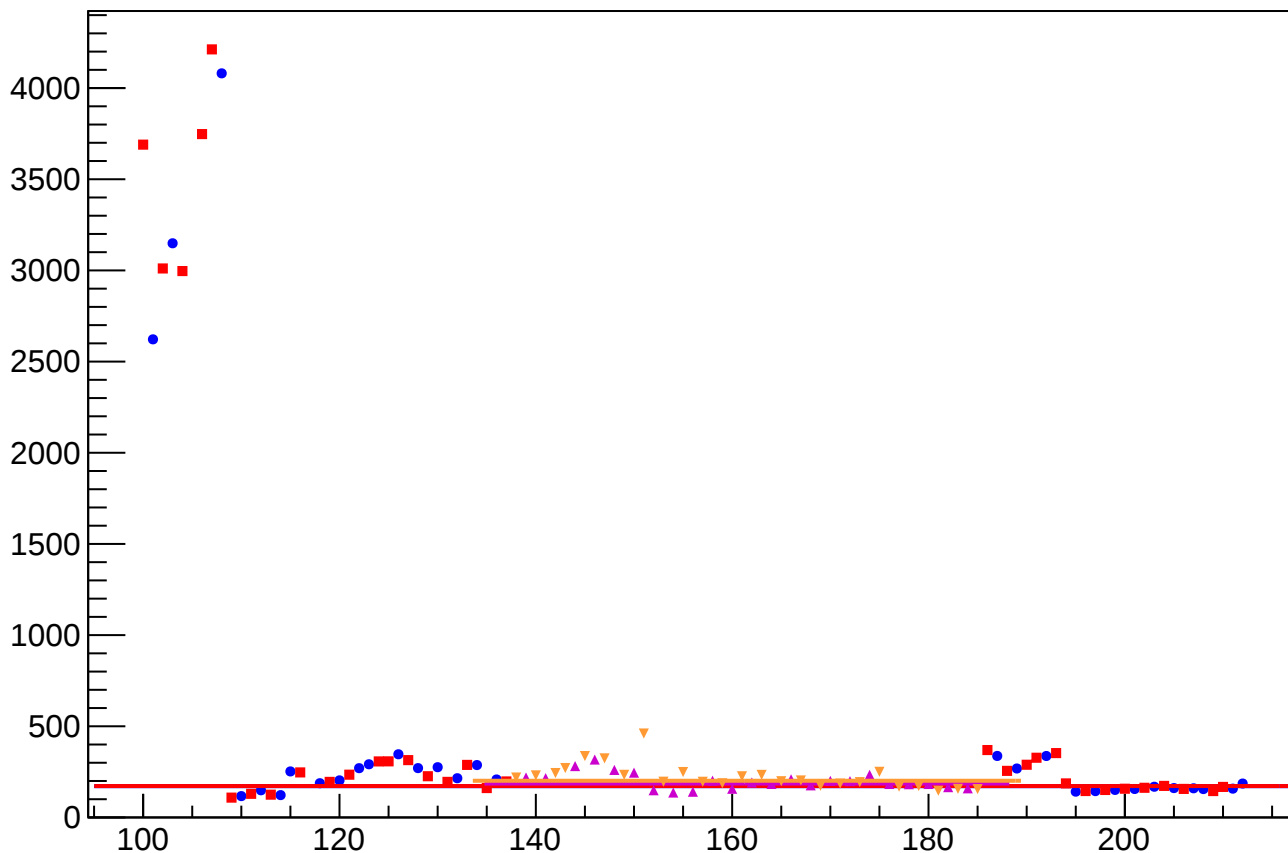
Right: -56.714+/-33.280 χ^2/NDF : 38.8/62

In: -16.003+/-32.915 χ^2/NDF : 31.3/52

Out: -27.930+/-33.912 χ^2/NDF : 26.0/57

All: -21.789+/-23.619 χ^2/NDF : 57.4/110

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.495+/-0.033 χ^2/NDF : 4531202.1/29

Left Out: 201.296+/-0.034 χ^2/NDF : 1851134.1/24

Right Out: 172.178+/-0.033 χ^2/NDF : 5400428.5/32

Left In: 185.854+/-0.033 χ^2/NDF : 1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

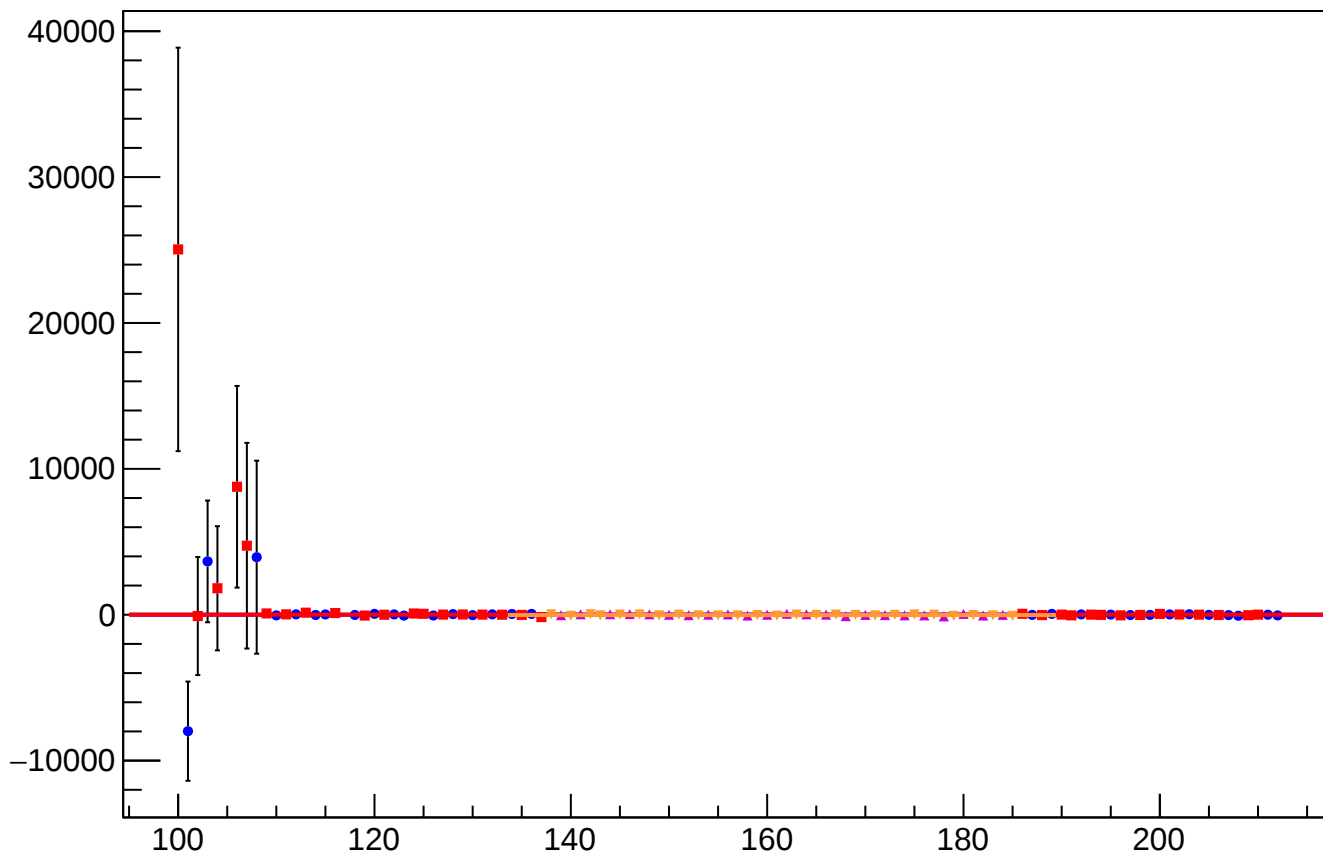
Right: 171.833+/-0.024 χ^2/NDF : 9931841.3/62

In: 178.753+/-0.023 χ^2/NDF : 6008116.5/52

Out: 186.347+/-0.024 χ^2/NDF : 7619922.9/57

All: 182.437+/-0.017 χ^2/NDF : 13679683.9/117

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.067+/-7.976 χ^2/NDF : 25.2/29

Left Out: -22.879+/-7.340 χ^2/NDF :18.8/24

Right Out: 5.088+/-7.937 χ^2/NDF : 38.7/32

Left In: -5.943+/-7.550 χ^2/NDF :38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

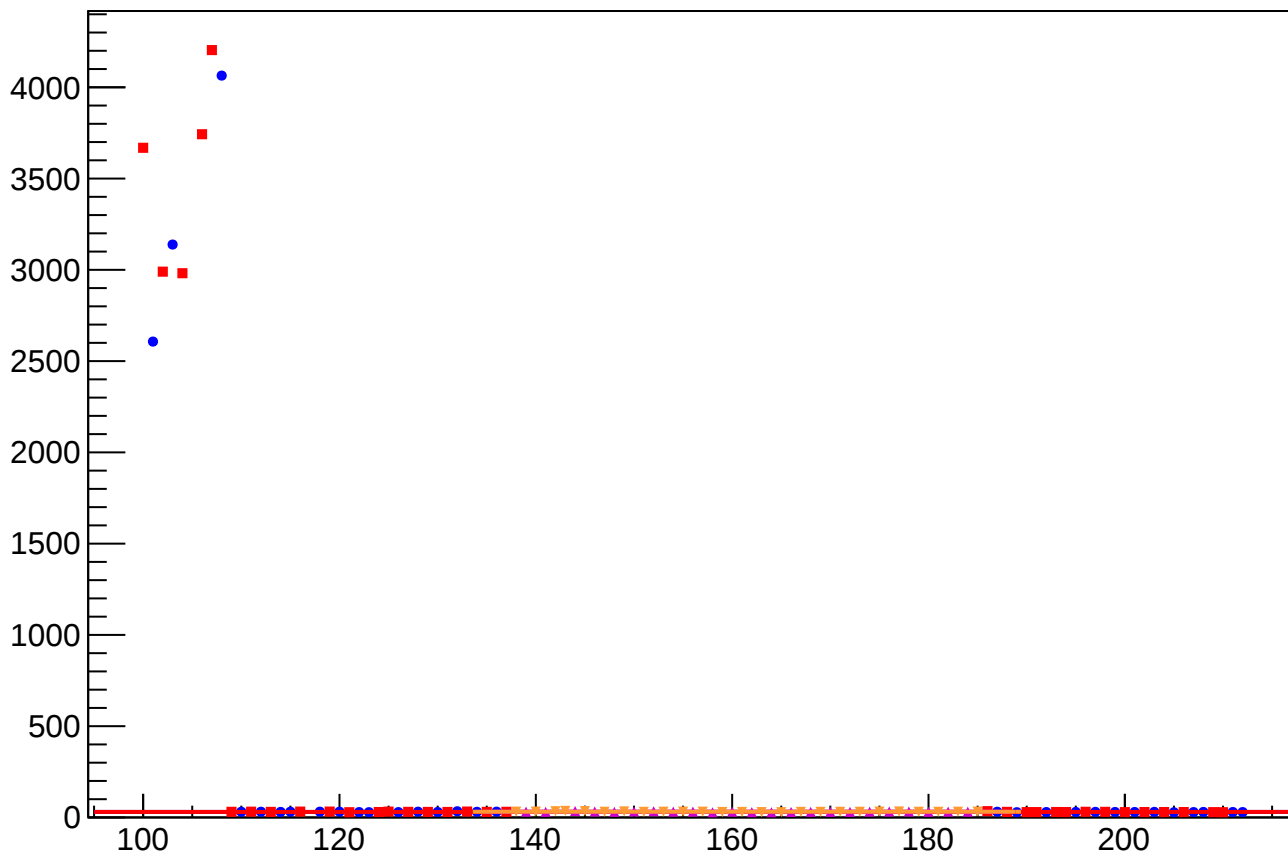
Right: 3.585+/-5.626 χ^2/NDF : 63.9/62

In: -2.158+/-5.483 χ^2/NDF :64.1/52

Out: -9.986+/-5.389 χ^2/NDF :64.1/57

All: -6.140+/-3.843 χ^2/NDF : 129.2/110

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.221 $\pm$ 0.006 χ^2 /NDF: 3038307.8/29

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.256 $\pm$ 0.006 χ^2 /NDF: 3492081.6/32

Left In: 31.484 $\pm$ 0.005 χ^2 /NDF:87981.1/22

Left: 31.483 $\pm$ 0.004 χ^2 /NDF: 170418.5/47

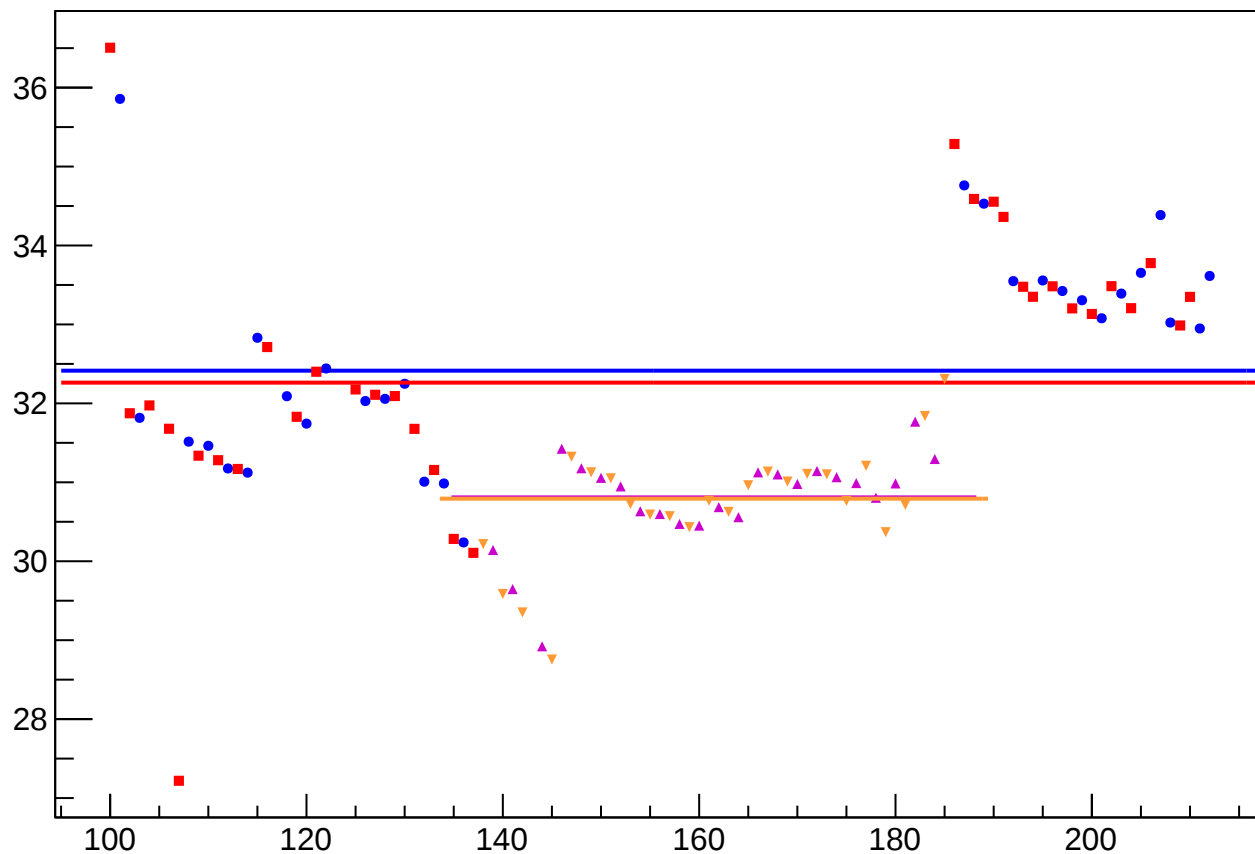
Right: 30.238 $\pm$ 0.004 χ^2 /NDF: 6530408.5/62

In: 30.887 $\pm$ 0.004 χ^2 /NDF:3152764.4/52

Out: 30.916 $\pm$ 0.004 χ^2 /NDF:3600245.8/57

All: 30.902 $\pm$ 0.003 χ^2 /NDF: 6753039.0/110

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.414+/-0.000

χ²/NDF: 2943244292.7/28

Left Out: 30.793+/-0.000

χ²/NDF: 1007261340.7/23

Right Out: 32.263+/-0.000

χ²/NDF: 2458654910.5/31

Left In: 30.809+/-0.000

χ²/NDF: 821961762.3/22

Left: 30.801+/-0.000

χ²/NDF: 1829591088.1/46

Right: 32.341+/-0.000

χ²/NDF: 5422921578.9/60

In: 31.478+/-0.000

χ²/NDF: 6625864115.0/51

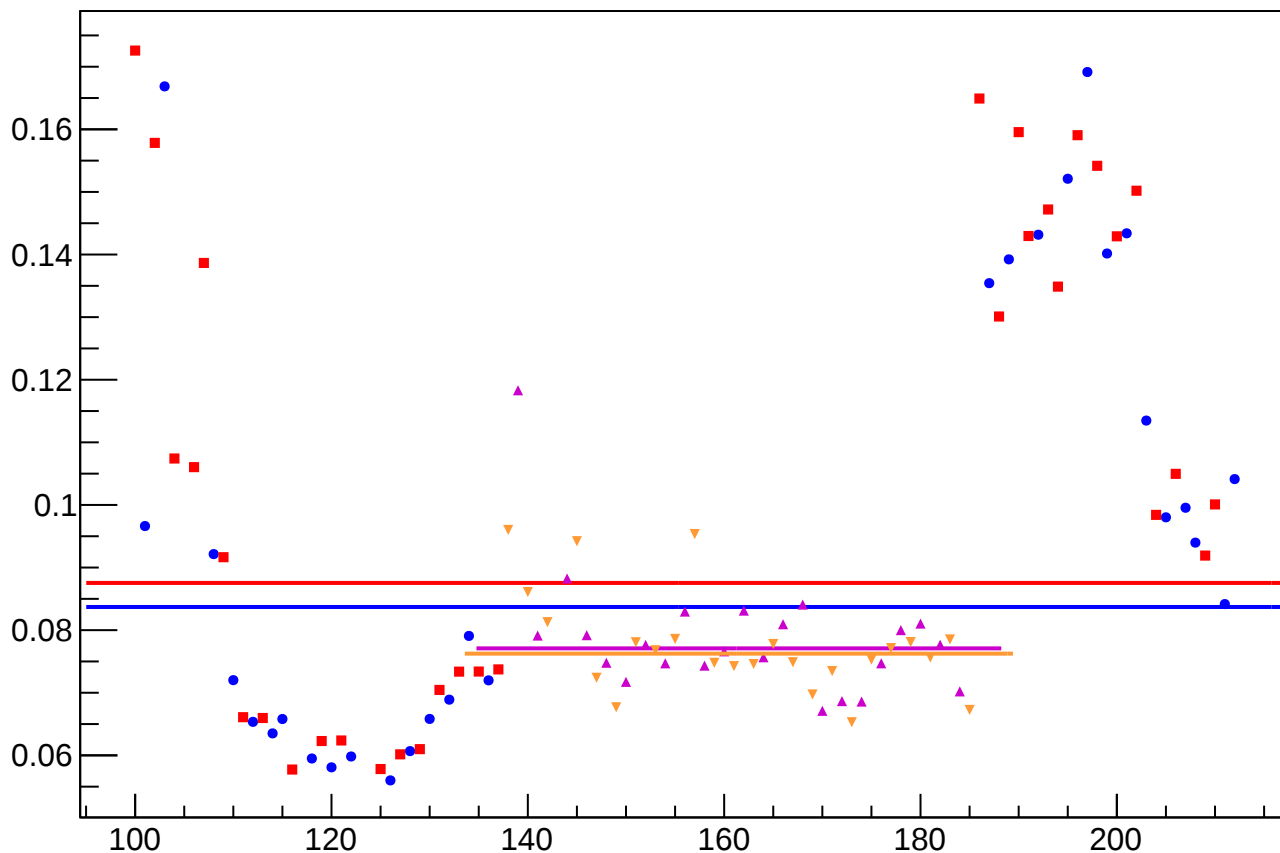
Out: 31.367+/-0.000

χ²/NDF: 5795168210.3/55

All: 31.423+/-0.000

χ²/NDF: 12449047427.3

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.084 $\pm$ 0.000 χ^2 /NDF: 3193021.1/28

Left Out: 0.076 $\pm$ 0.000 χ^2 /NDF:277876.5/23

Right Out: 0.088 $\pm$ 0.000 χ^2 /NDF: 3630962.4/31

Left In: 0.077 $\pm$ 0.000 χ^2 /NDF:325844.3/22

Left: 0.077 $\pm$ 0.000 χ^2 /NDF: 605642.6/46

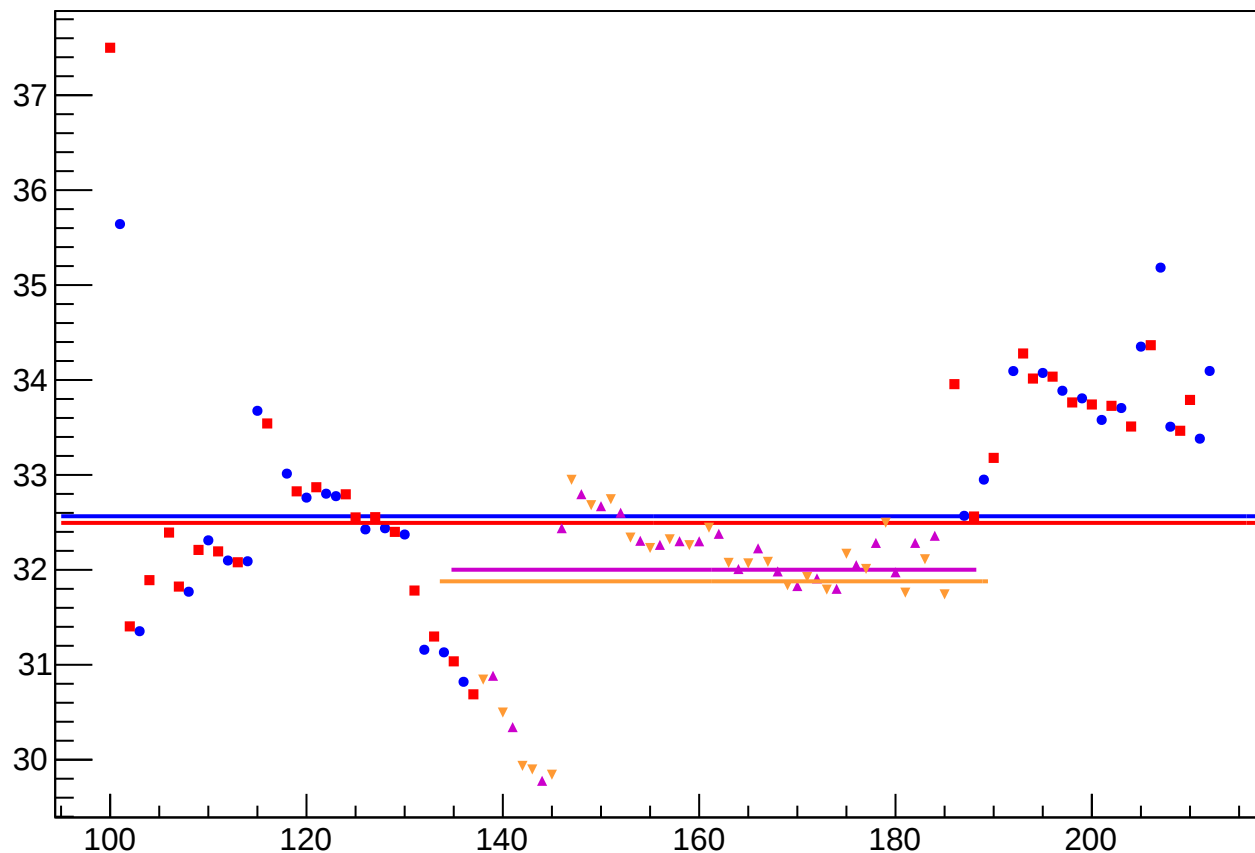
Right: 0.086 $\pm$ 0.000 χ^2 /NDF: 6851046.4/60

In: 0.080 $\pm$ 0.000 χ^2 /NDF:3615919.2/51

Out: 0.081 $\pm$ 0.000 χ^2 /NDF:4183813.9/55

All: 0.080 $\pm$ 0.000 χ^2 /NDF: 7802756.0/107

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.565+/-0.000 χ^2/NDF : 1573528251.3/29

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.495+/-0.000 χ^2/NDF : 910877680.7/31

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

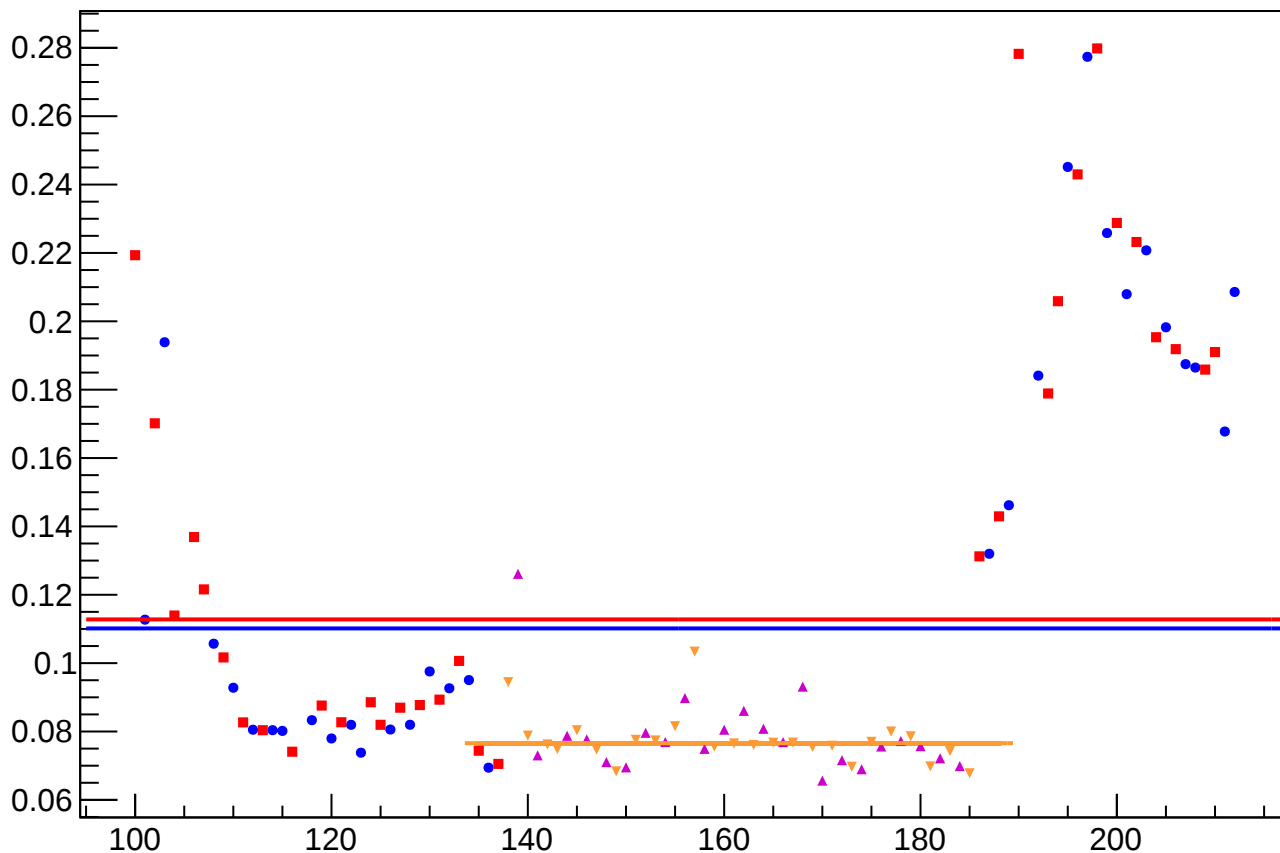
Right: 32.530+/-0.000 χ^2/NDF : 2486855523.6/61

In: 32.152+/-0.000 χ^2/NDF : 3218547792.3/52

Out: 32.037+/-0.000 χ^2/NDF : 3167420706.6/56

All: 32.094+/-0.000 χ^2/NDF : 6411203619.8/100

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.110 $\pm$ 0.000 χ^2 /NDF: 5210186.2/29

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.113 $\pm$ 0.000 χ^2 /NDF: 4802619.1/31

Left In: 0.076 $\pm$ 0.000 χ^2 /NDF:432563.3/22

Left: 0.077 $\pm$ 0.000 χ^2 /NDF: 642235.6/47

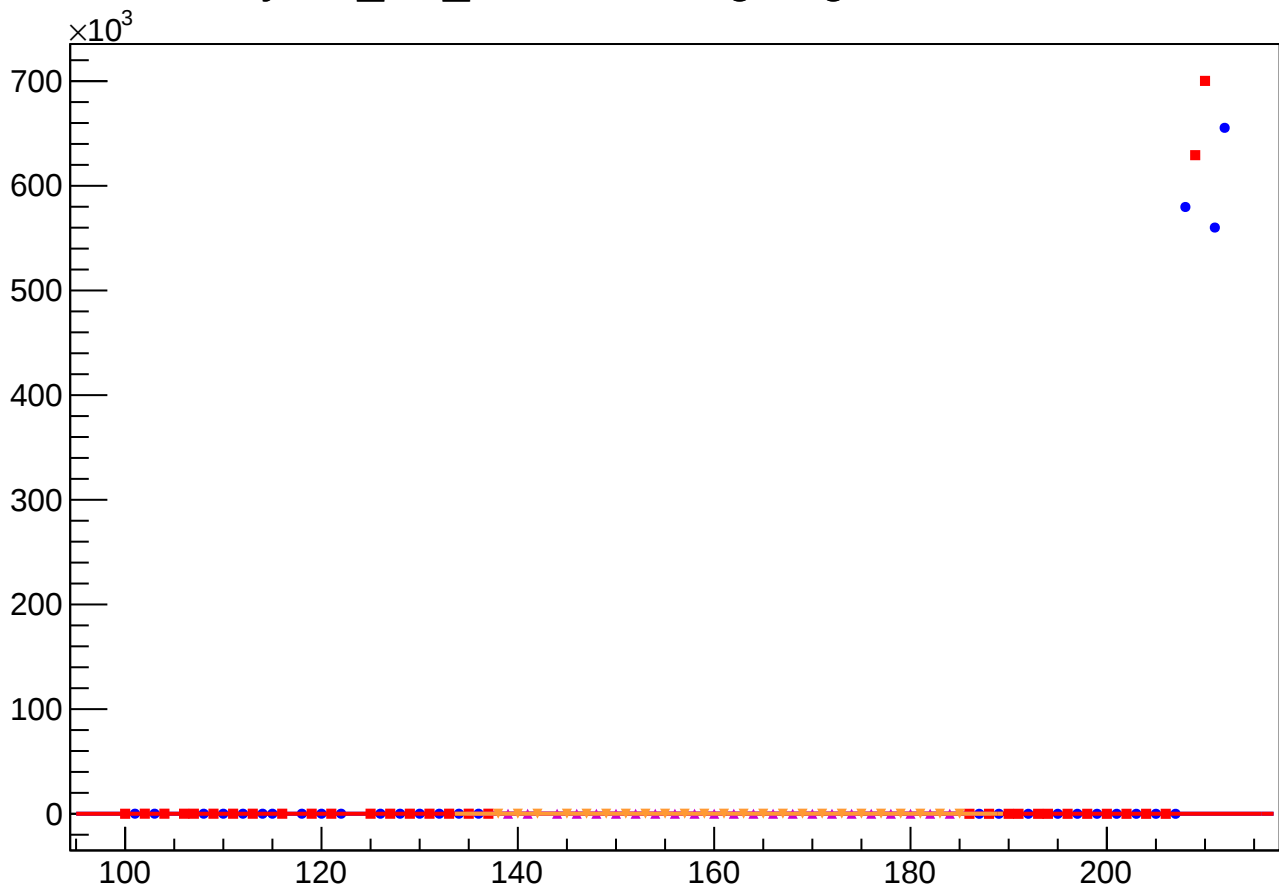
Right: 0.111 $\pm$ 0.000 χ^2 /NDF: 10019767.1/61

In: 0.086 $\pm$ 0.000 χ^2 /NDF:7312783.2/52

Out: 0.086 $\pm$ 0.000 χ^2 /NDF:6951173.2/56

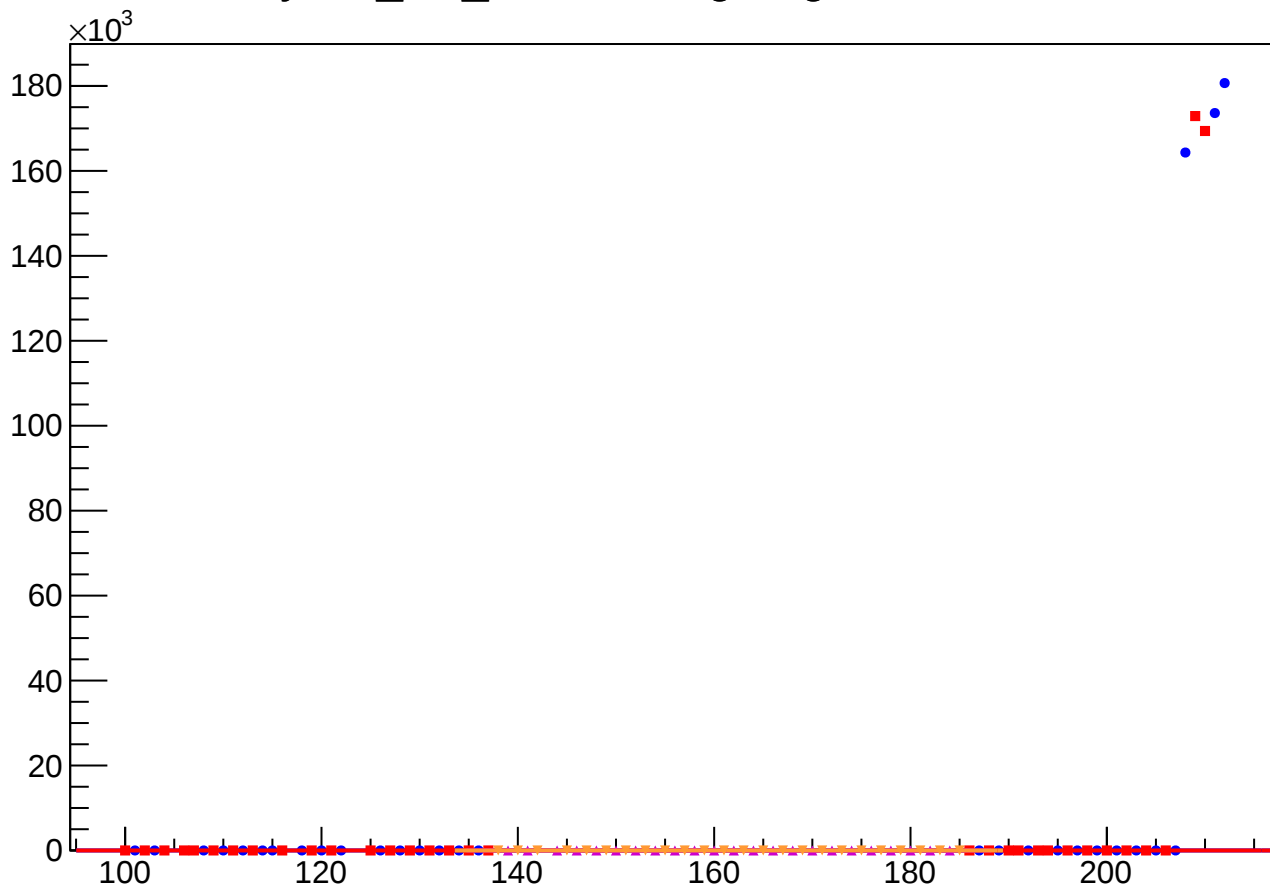
All: 0.086 $\pm$ 0.000 χ^2 /NDF: 14264477.0/109

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000	χ^2/NDF : 10853532994063.6/28	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 : 22419873735111.7/5
Right Out: 51.099+/-0.000	χ^2/NDF : 11528433259516.9/31	In: 71.422+/-0.000	χ^2/NDF : 13699369805919.7/5
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 69.320+/-0.000	χ^2/NDF : 15306986022063.8/5
		All: 70.353+/-0.000	χ^2/NDF : 2903828150362.0/10

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 4659189.9/28

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:206685.9/23

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 3577413.2/31

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

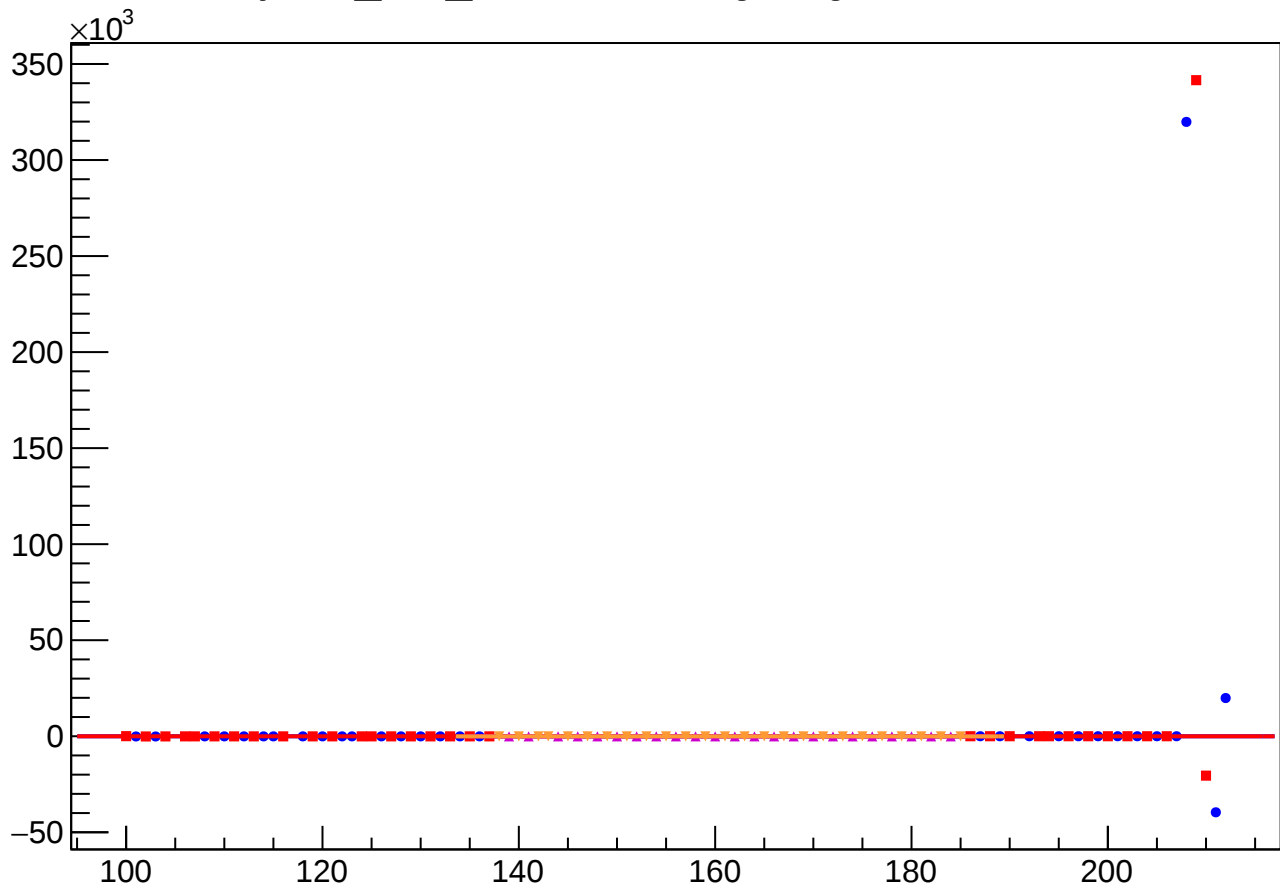
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 8236606.9/60

In: 0.046 $\pm$ 0.000 χ^2 /NDF:4928504.7/51

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:3803665.5/55

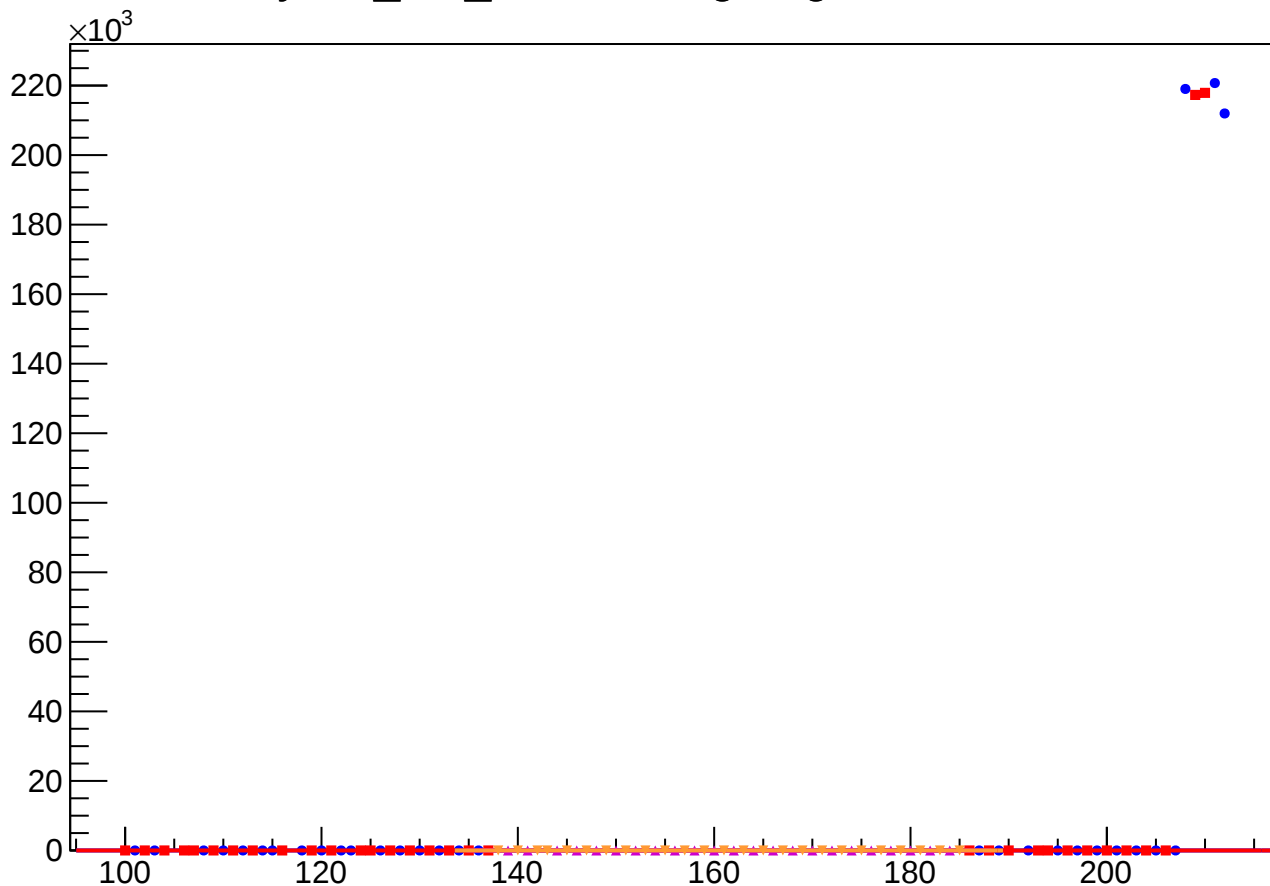
All: 0.046 $\pm$ 0.000 χ^2 /NDF: 8732713.1/107

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000	χ^2/NDF : 7479128748037.6/29	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 : 14808899557234.9
Right Out: -28.760+/-0.000	χ^2/NDF : 7325681402413.6/31	In: -50.762+/-0.000	χ^2/NDF : 11497070342043.6/5
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -50.075+/-0.000	χ^2/NDF : 11926090694038.4/
		All: -50.406+/-0.000	χ^2/NDF : 234256933660

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 4338645.6/29

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 3125092.3/31

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

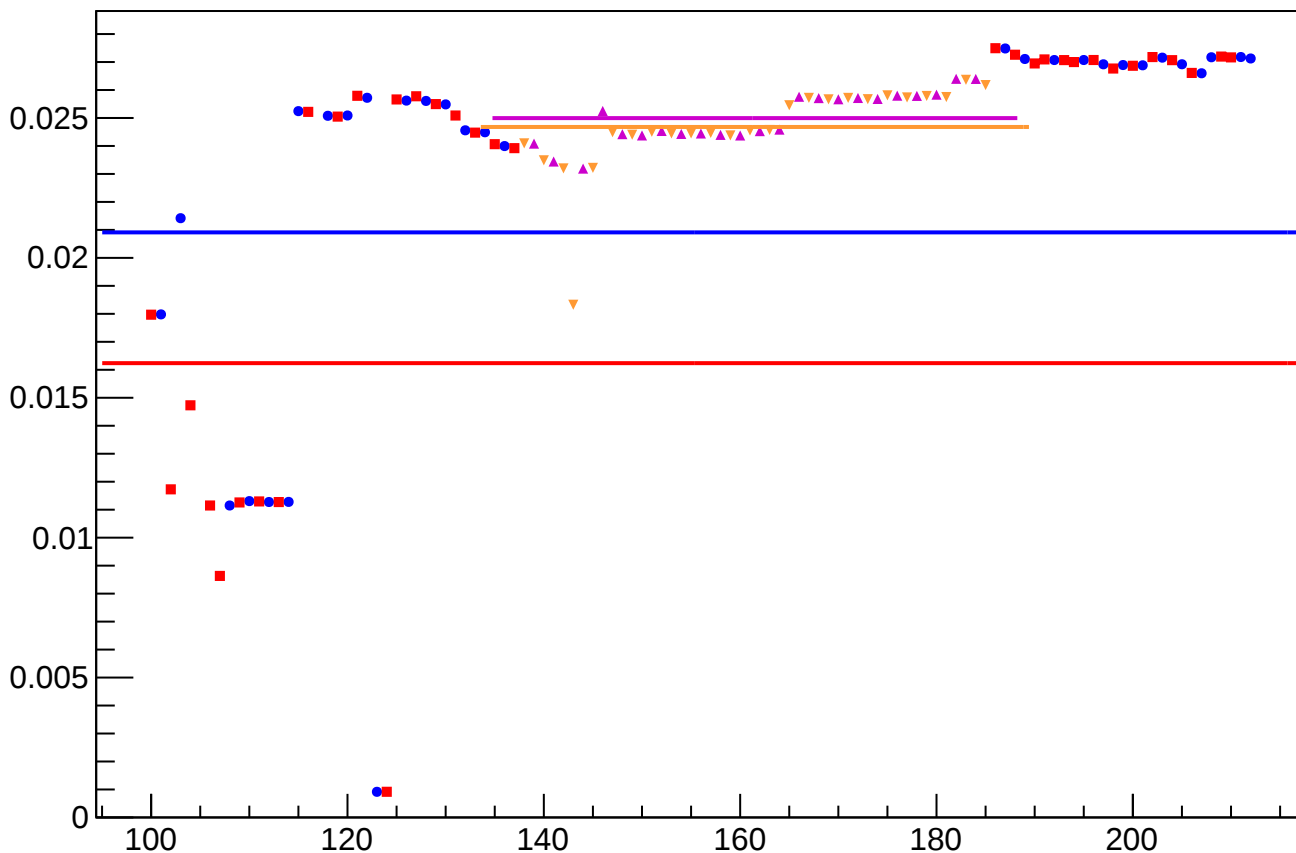
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 7463785.8/61

In: 0.054 $\pm$ 0.000 χ^2 /NDF:4452697.0/52

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:3219746.2/56

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 7673140.8/109

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.021±/0.000

χ^2/NDF : 193953519065.1/29

Left: 0.025±/0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025±/0.000

χ^2/NDF : 9641065555.8/24

Right: 0.018±/0.000

χ^2/NDF : 647307263771.0/62

Right Out: 0.016±/0.000

χ^2/NDF : 419601347896.5/32

In: 0.023±/0.000

χ^2/NDF : 222306003578.4/52

Out: 0.021±/0.000

χ^2/NDF : 557474614816.3/57

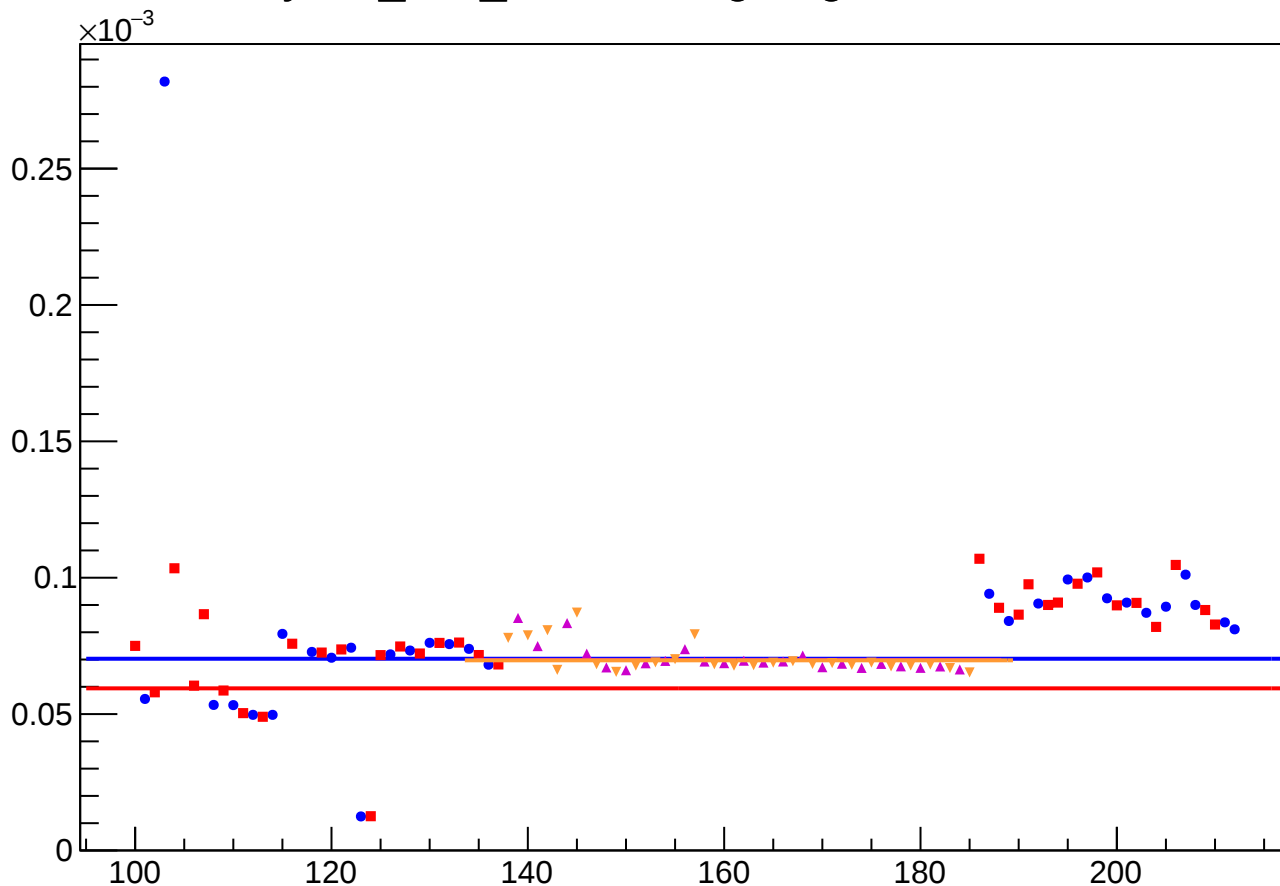
Left In: 0.025±/0.000

χ^2/NDF : 2462473687.7/22

All: 0.022±/0.000

χ^2/NDF : 802516662421.8

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3562714.2/29

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 6968047.3/32

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

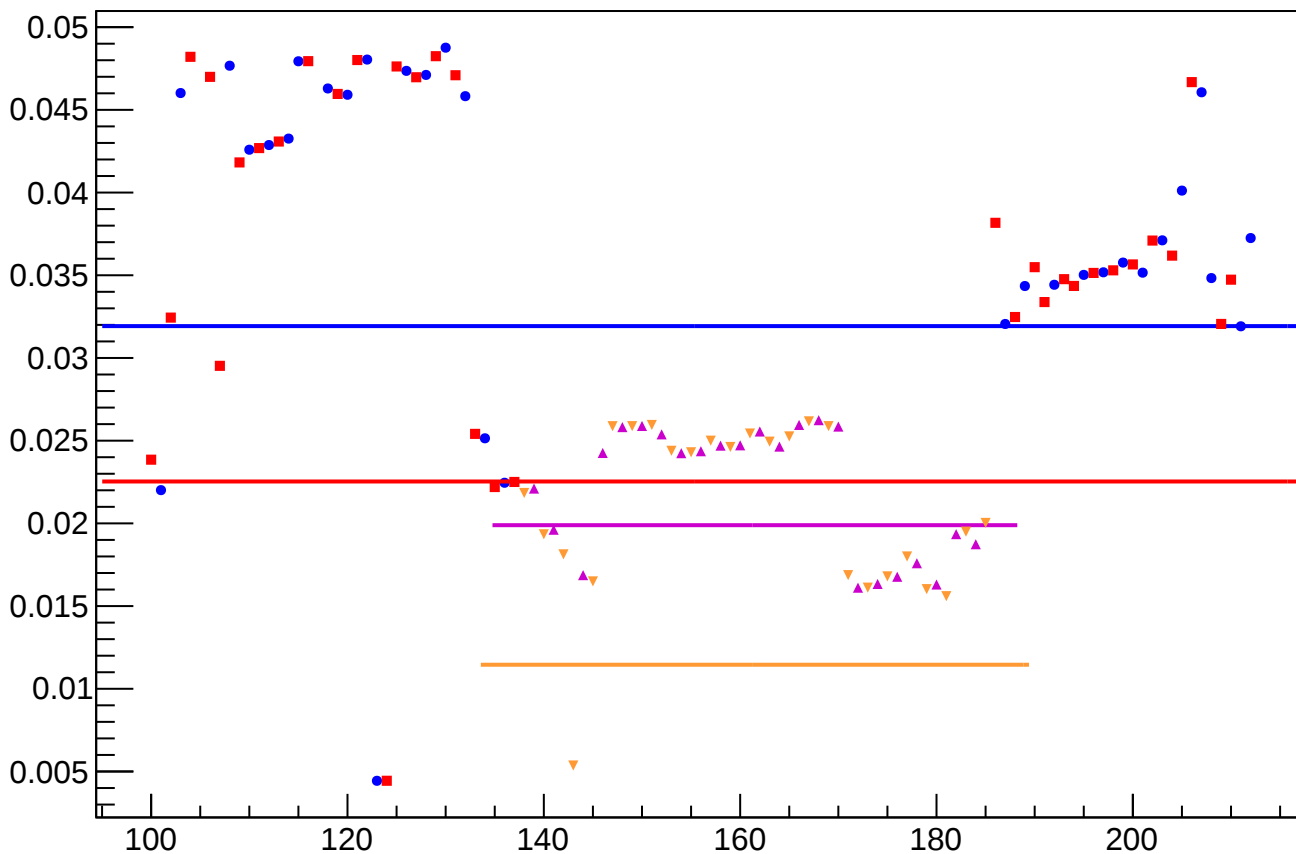
Right: 0.000+/-0.000 χ^2/NDF : 10895036.9/62

In: 0.000+/-0.000 χ^2/NDF :3692592.4/52

Out: 0.000+/-0.000 χ^2/NDF :7506486.5/57

All: 0.000+/-0.000 χ^2/NDF : 11388425.5/110

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.000

χ^2 /NDF: 21786234383.1/29

Left: 0.014 $\pm$ 0.000

χ^2 /NDF: 59527747529.2/47

Left Out: 0.011 $\pm$ 0.000

χ^2 /NDF: 40294472965.0/24

Right: 0.026 $\pm$ 0.000

χ^2 /NDF: 71346483008.3/62

Right Out: 0.023 $\pm$ 0.000

χ^2 /NDF: 44642289423.1/32

In: 0.023 $\pm$ 0.000

χ^2 /NDF: 36397812182.6/52

Out: 0.013 $\pm$ 0.000

χ^2 /NDF: 99387235505.6/57

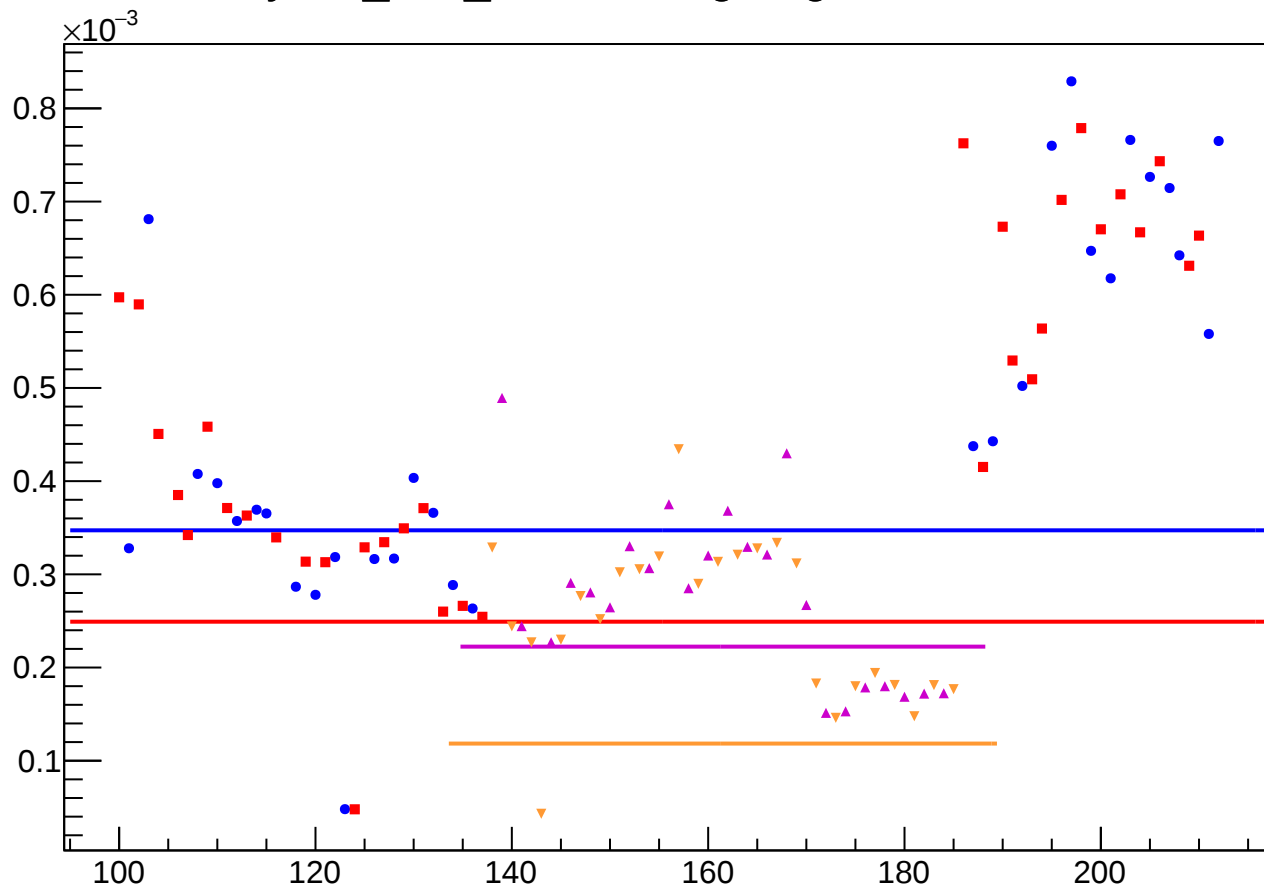
Left In: 0.020 $\pm$ 0.000

χ^2 /NDF: 4458790813.3/22

All: 0.016 $\pm$ 0.000

χ^2 /NDF: 159739311415.8

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 7300074.0/29

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 12937231.3/32

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

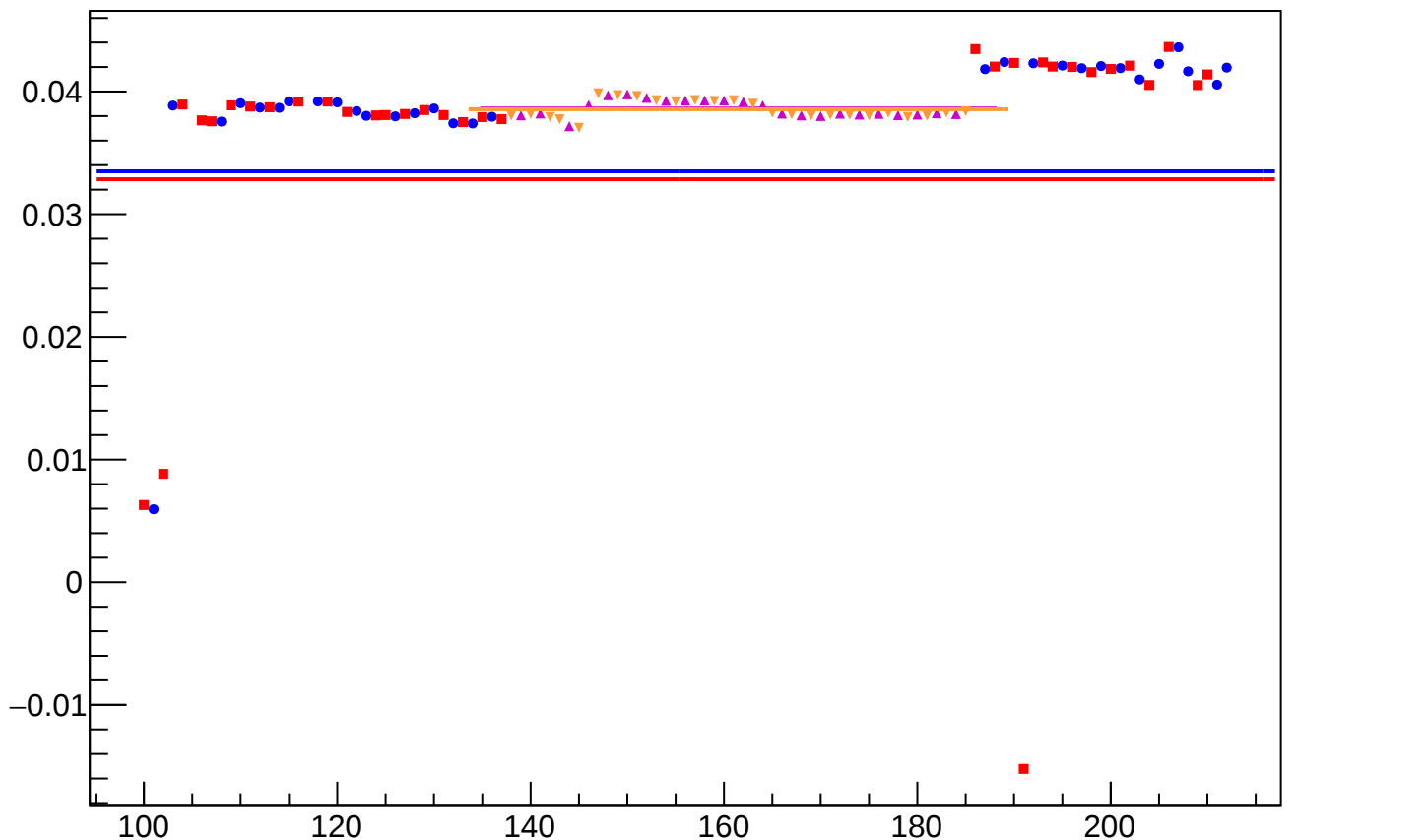
Right: 0.000+/-0.000 χ^2/NDF : 21308909.0/62

In: 0.000+/-0.000 χ^2/NDF :12764645.7/52

Out: 0.000+/-0.000 χ^2/NDF :30527799.9/57

All: 0.000+/-0.000 χ^2/NDF : 50003240.2/110

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.033+/-0.000

χ^2/NDF : 118675481101.6/29

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right Out: 0.033+/-0.000

χ^2/NDF : 182900603383.3/32

Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Right: 0.033+/-0.000

χ^2/NDF : 301717795826.3/62

In: 0.037+/-0.000

χ^2/NDF : 129784573714.3/52

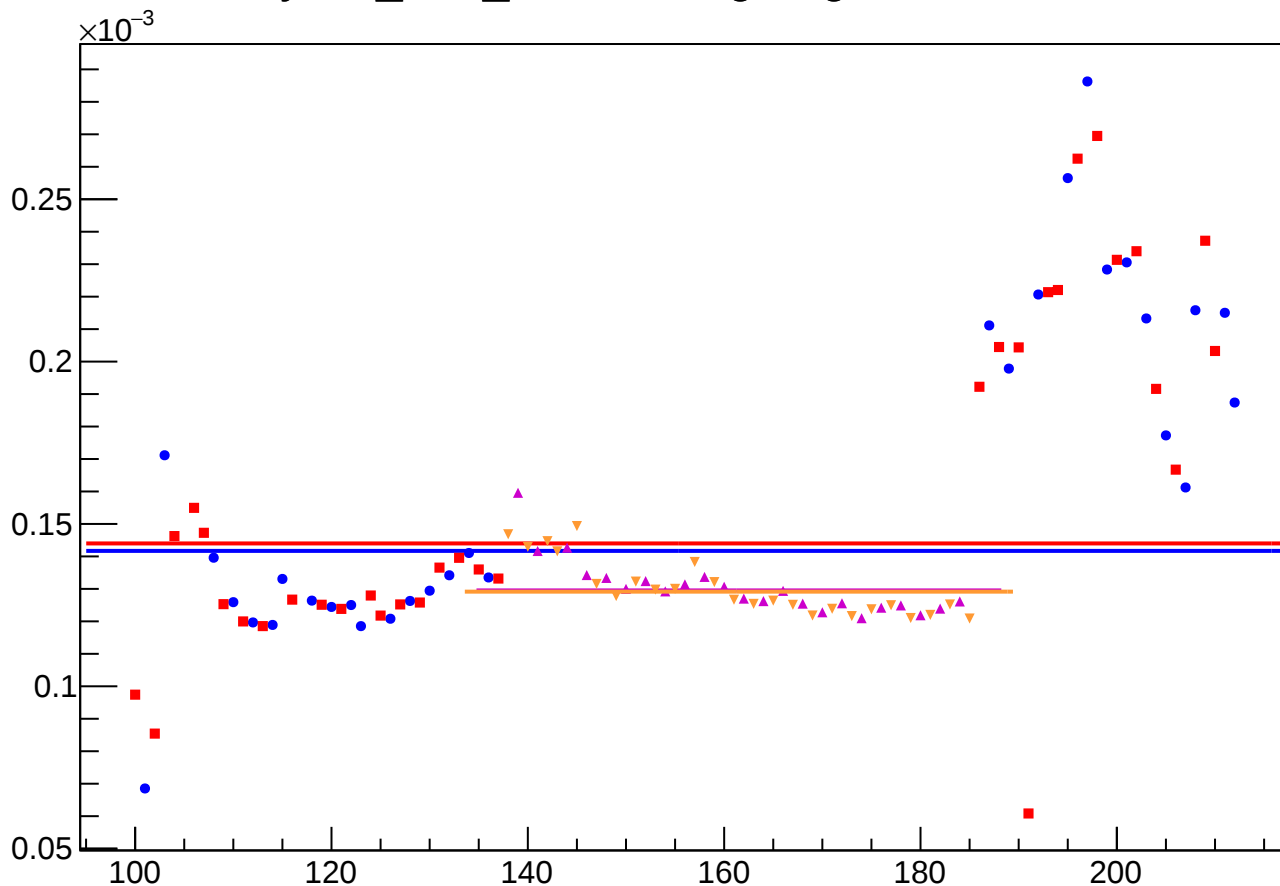
Out: 0.036+/-0.000

χ^2/NDF : 197017853048.0/57

All: 0.036+/-0.000

χ^2/NDF : 326843687565.5

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3618884.5/29

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3387424.4/32

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

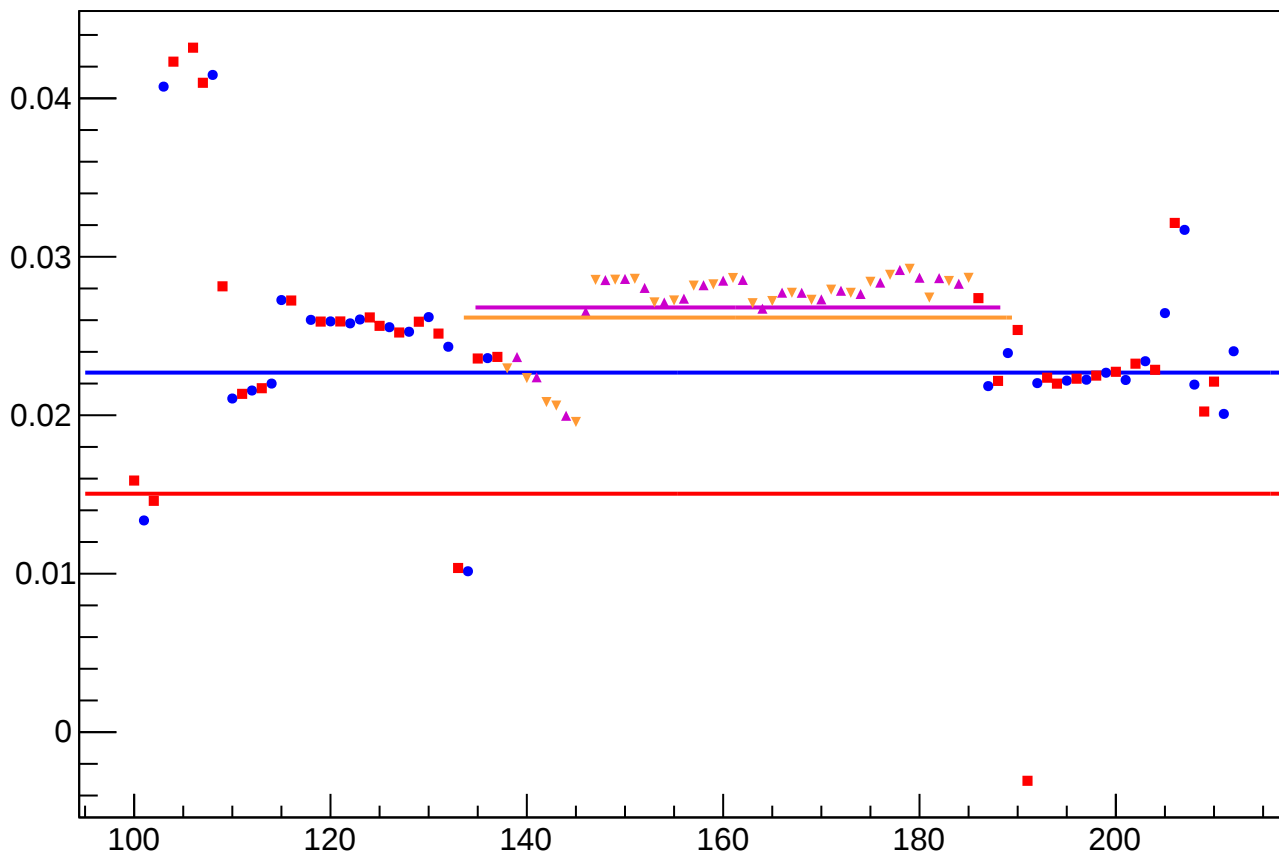
Right: 0.000+/-0.000 χ^2/NDF : 7009877.6/62

In: 0.000+/-0.000 χ^2/NDF :3853863.7/52

Out: 0.000+/-0.000 χ^2/NDF :3701350.7/57

All: 0.000+/-0.000 χ^2/NDF : 7555634.2/110

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000

χ^2/NDF : 4422993983.7/29

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 : 40131842345.4/62

Right Out: 0.015+/-0.000

χ^2/NDF : 31679739824.0/32

In: 0.025+/-0.000

χ^2/NDF : 6964333829.7/52

Out: 0.021+/-0.000

χ^2/NDF : 45076424335.8/57

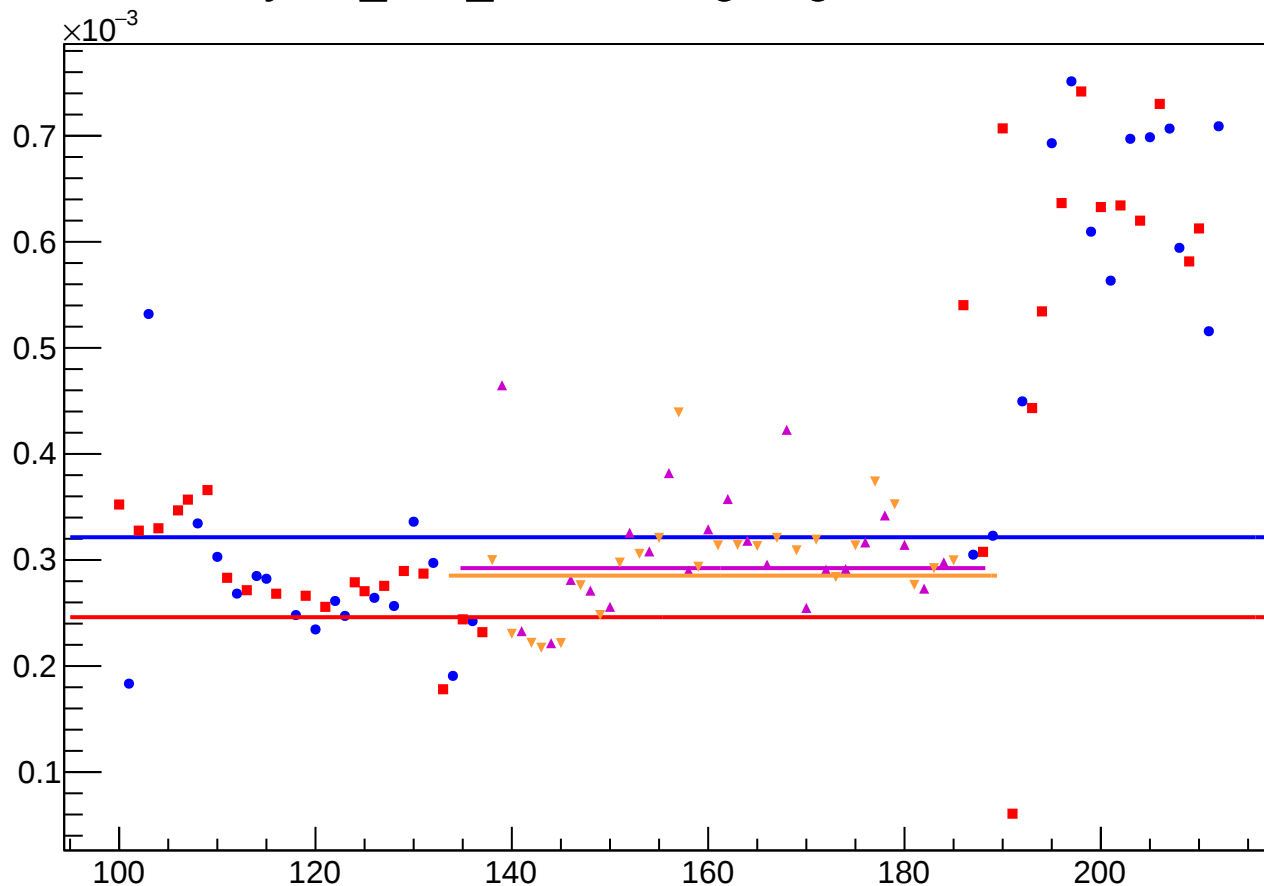
Left In: 0.027+/-0.000

χ^2/NDF : 1332033607.7/22

All: 0.023+/-0.000

χ^2/NDF : 54846942272.7/13

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5358877.2/29

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 9828477.3/32

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

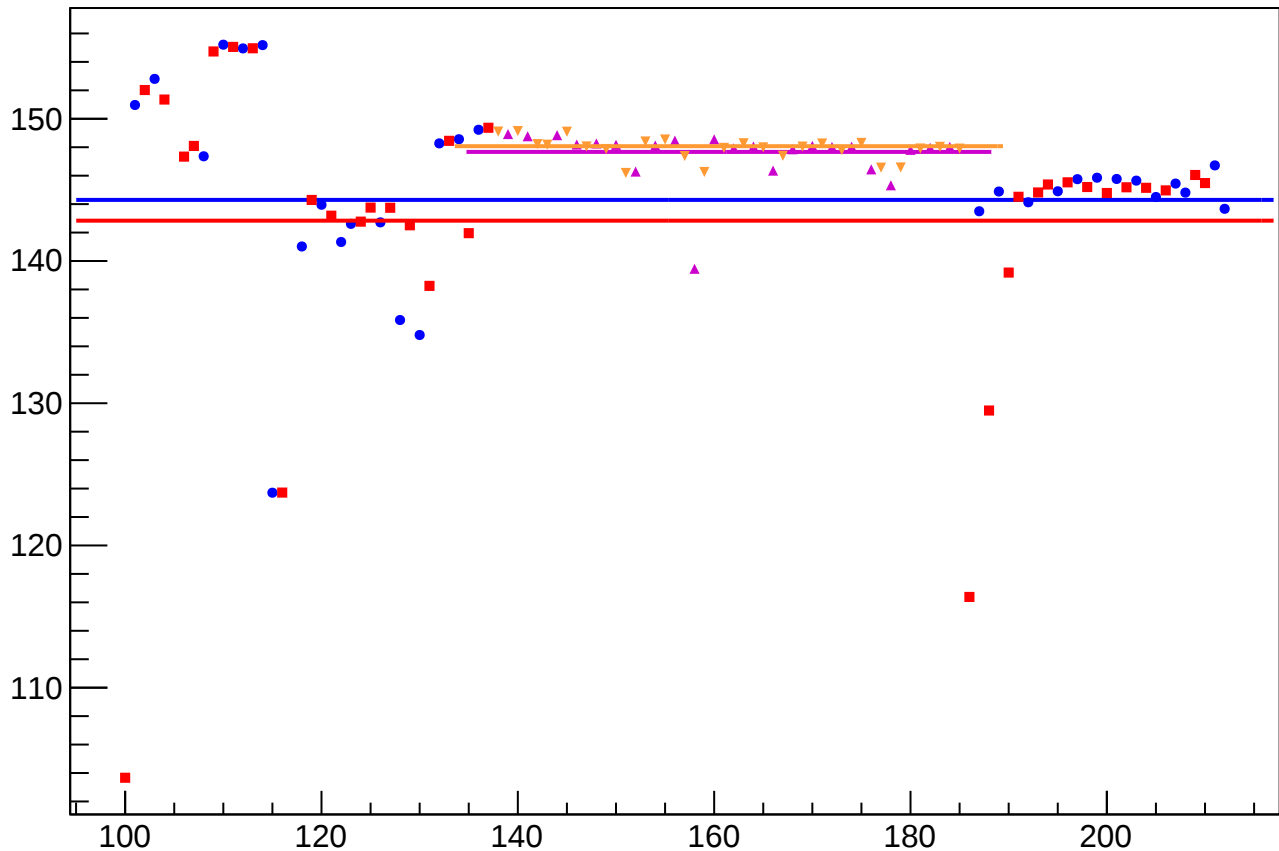
Right: 0.000+/-0.000 χ^2/NDF : 15971294.2/62

In: 0.000+/-0.000 χ^2/NDF :6379010.9/52

Out: 0.000+/-0.000 χ^2/NDF :10923803.8/57

All: 0.000+/-0.000 χ^2/NDF : 17738267.8/110

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.297+/-0.000 χ^2/NDF : 3503666446.4/29

Left Out: 148.073+/-0.000 χ^2/NDF : 65614067.4/24

Right Out: 142.837+/-0.000 χ^2/NDF : 7444774133.0/32

Left In: 147.670+/-0.000 χ^2/NDF : 345222604.4/22

Left: 147.879+/-0.000 χ^2/NDF : 418091602.5/47

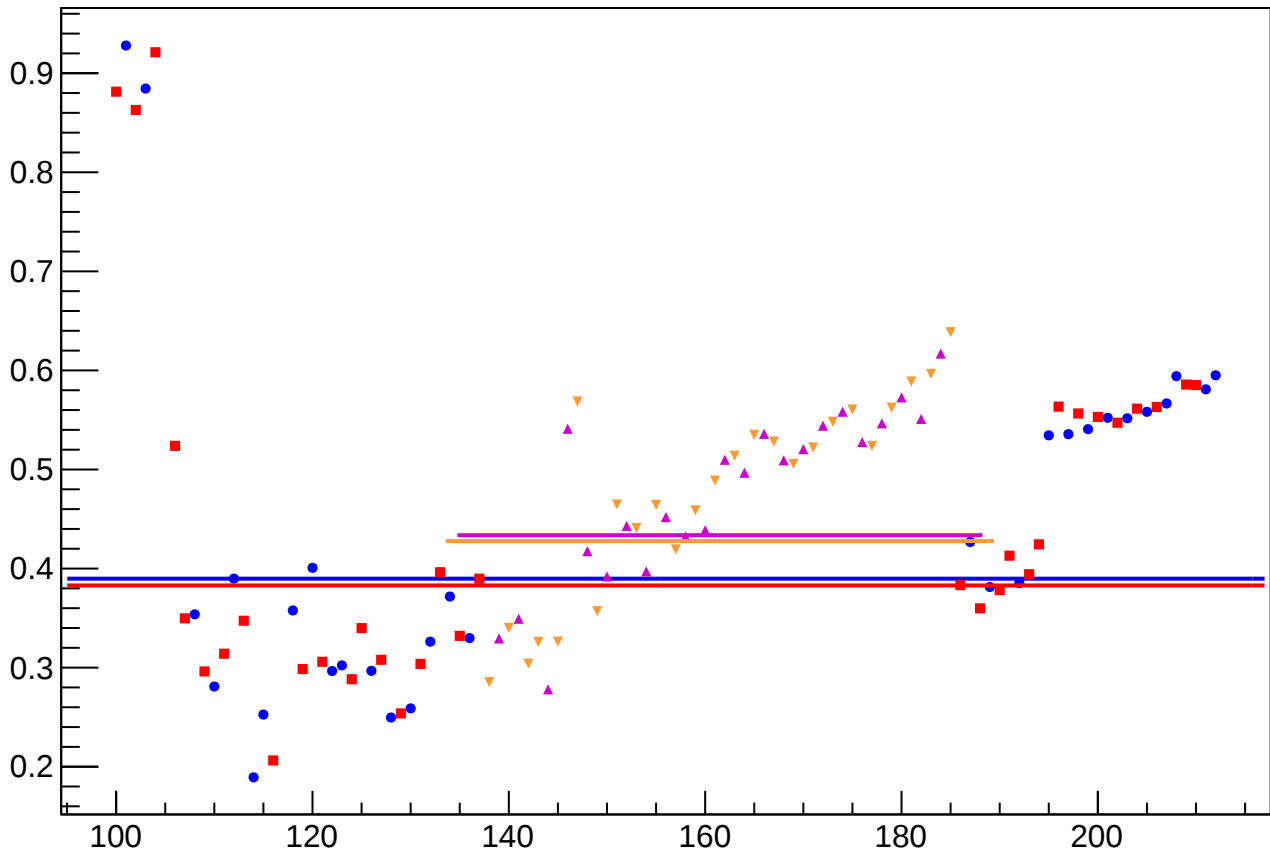
Right: 143.534+/-0.000 χ^2/NDF : 11047142606.8/62

In: 145.963+/-0.000 χ^2/NDF : 4346934142.8/52

Out: 145.397+/-0.000 χ^2/NDF : 8810308193.7/57

All: 145.669+/-0.000 χ^2/NDF : 13186361192.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.390 $\pm$ 0.000 χ^2 /NDF: 3238765.6/29

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.383 $\pm$ 0.000 χ^2 /NDF: 2891599.9/32

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1496343.5/22

Left: 0.431 $\pm$ 0.000 χ^2 /NDF: 3396308.8/47

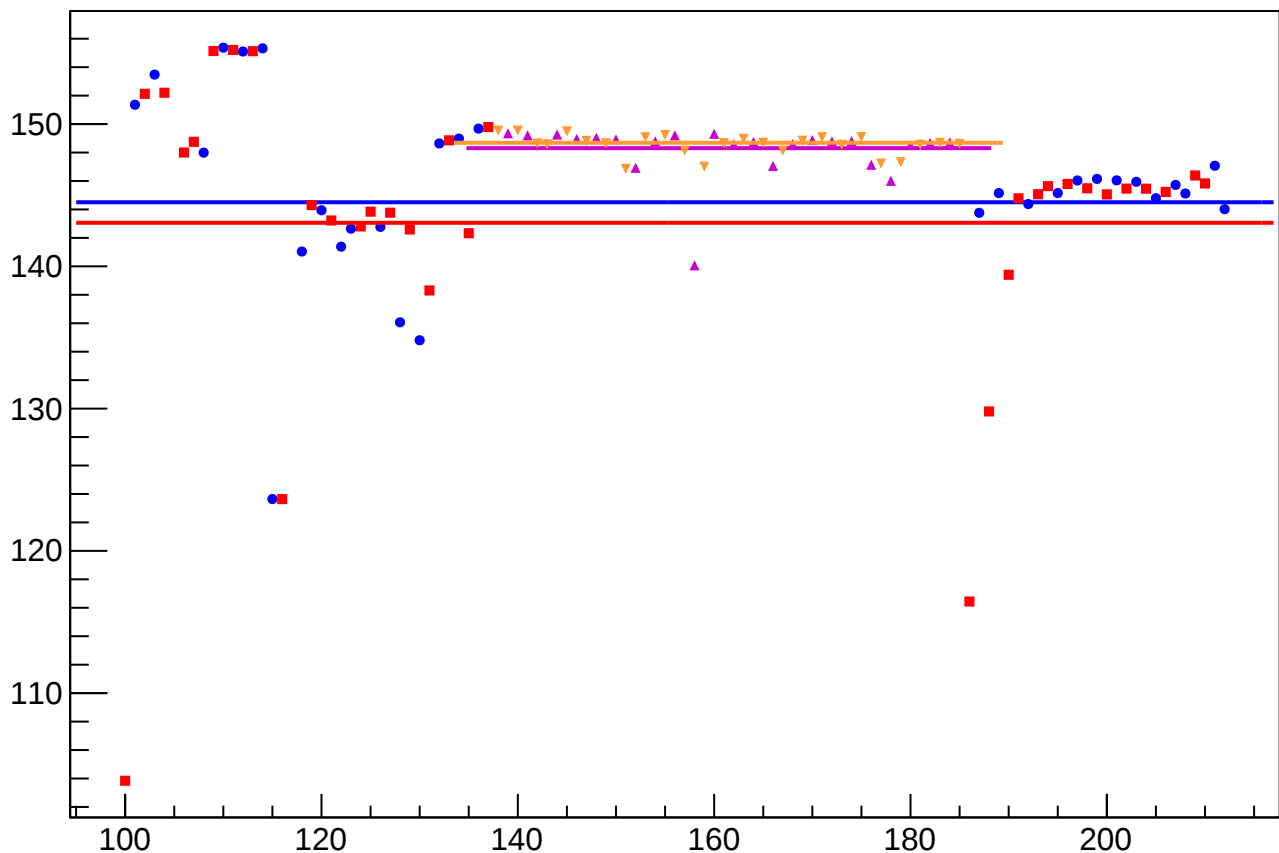
Right: 0.386 $\pm$ 0.000 χ^2 /NDF: 6134674.5/62

In: 0.411 $\pm$ 0.000 χ^2 /NDF:4903630.7/52

Out: 0.405 $\pm$ 0.000 χ^2 /NDF:4978403.4/57

All: 0.408 $\pm$ 0.000 χ^2 /NDF: 9889970.0/110

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.505 $\pm$ 0.000 χ^2 /NDF: 3554098339.8/29

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 143.062 $\pm$ 0.000 χ^2 /NDF: 7395668378.6/32

Left In: 148.307 $\pm$ 0.000 χ^2 /NDF: 333585558.2/22

Left: 148.504 $\pm$ 0.000 χ^2 /NDF: 392094013.2/47

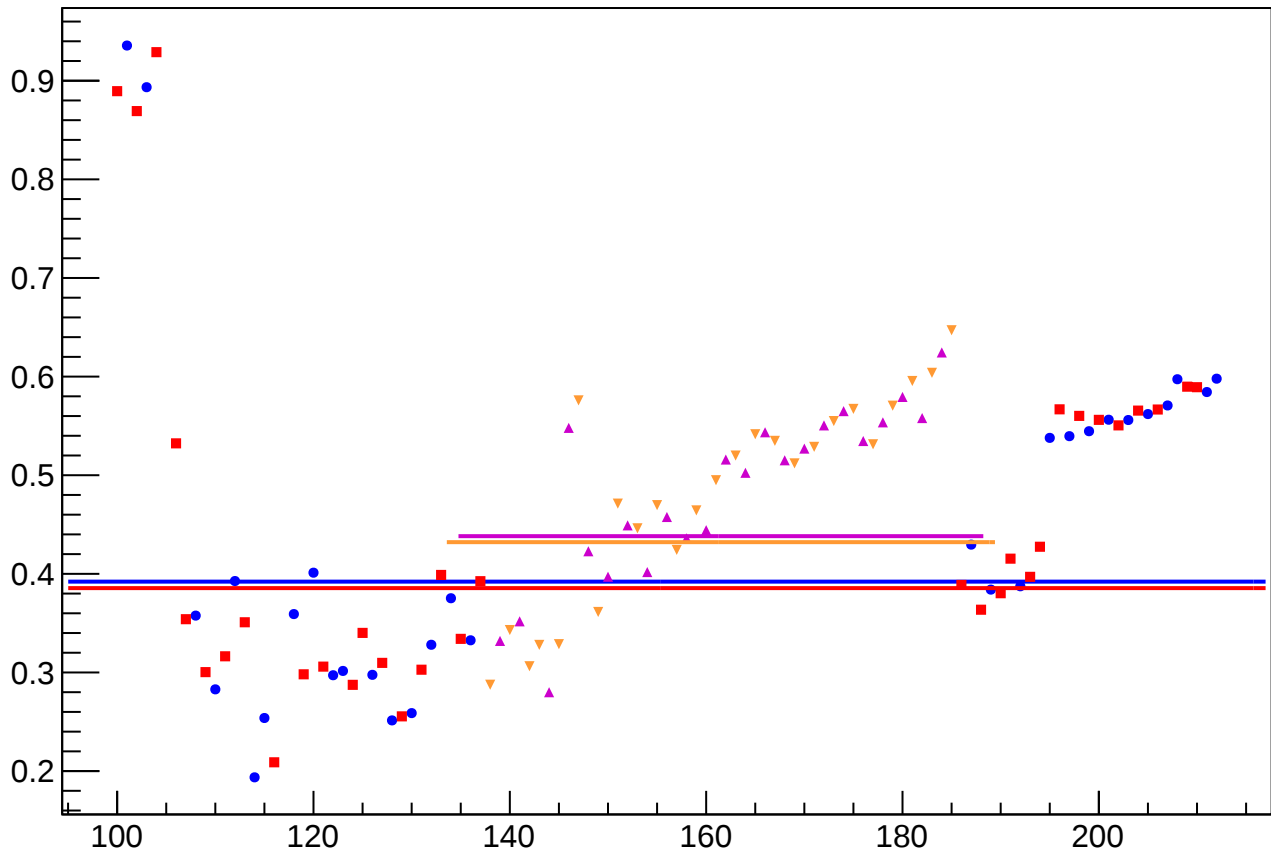
Right: 143.751 $\pm$ 0.000 χ^2 /NDF: 11044982051.5/62

In: 146.373 $\pm$ 0.000 χ^2 /NDF: 4509997331.7/52

Out: 145.801 $\pm$ 0.000 χ^2 /NDF: 8922069620.2/57

All: 146.075 $\pm$ 0.000 χ^2 /NDF: 13461424450.

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.392 $\pm$ 0.000 χ^2 /NDF: 3245892.2/29

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.386 $\pm$ 0.000 χ^2 /NDF: 2895528.9/32

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

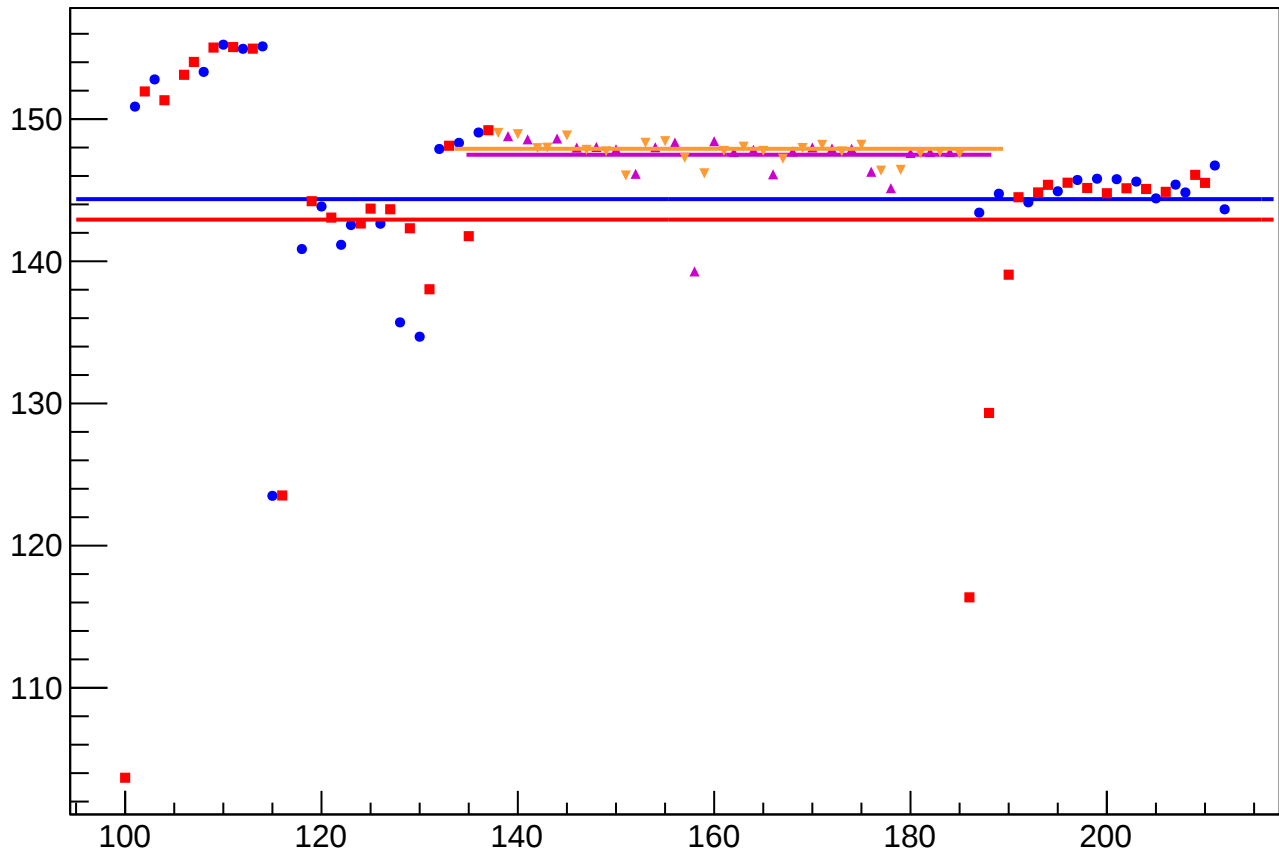
Right: 0.389 $\pm$ 0.000 χ^2 /NDF: 6145388.6/62

In: 0.415 $\pm$ 0.000 χ^2 /NDF:4950699.2/52

Out: 0.408 $\pm$ 0.000 χ^2 /NDF:5026980.9/57

All: 0.411 $\pm$ 0.000 χ^2 /NDF: 9985349.7/110

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.370 $\pm$ 0.000 χ^2 /NDF: 3709289665.7/29

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 142.931 $\pm$ 0.000 χ^2 /NDF: 7819614900.2/32

Left In: 147.493 $\pm$ 0.000 χ^2 /NDF: 343978473.2/22

Left: 147.709 $\pm$ 0.000 χ^2 /NDF: 416149781.4/47

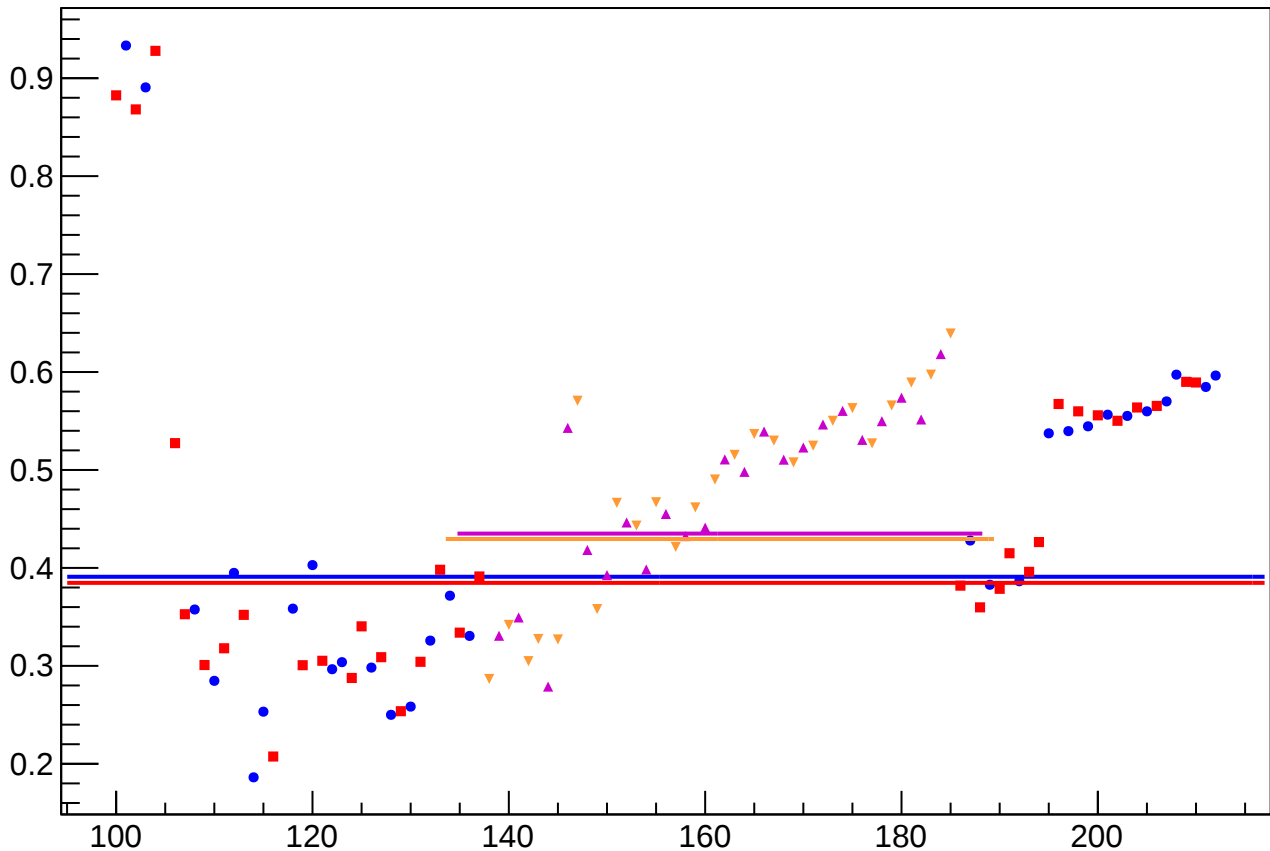
Right: 143.619 $\pm$ 0.000 χ^2 /NDF: 11623985090.1/62

In: 145.913 $\pm$ 0.000 χ^2 /NDF: 4477170811.0/52

Out: 145.368 $\pm$ 0.000 χ^2 /NDF: 9049569118.7/57

All: 145.630 $\pm$ 0.000 χ^2 /NDF: 13553633495.

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.391 $\pm$ 0.000 χ^2/NDF : 3274645.7/29

Left Out: 0.430 $\pm$ 0.000 χ^2/NDF :1895701.4/24

Right Out: 0.385 $\pm$ 0.000 χ^2/NDF : 2898498.0/32

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

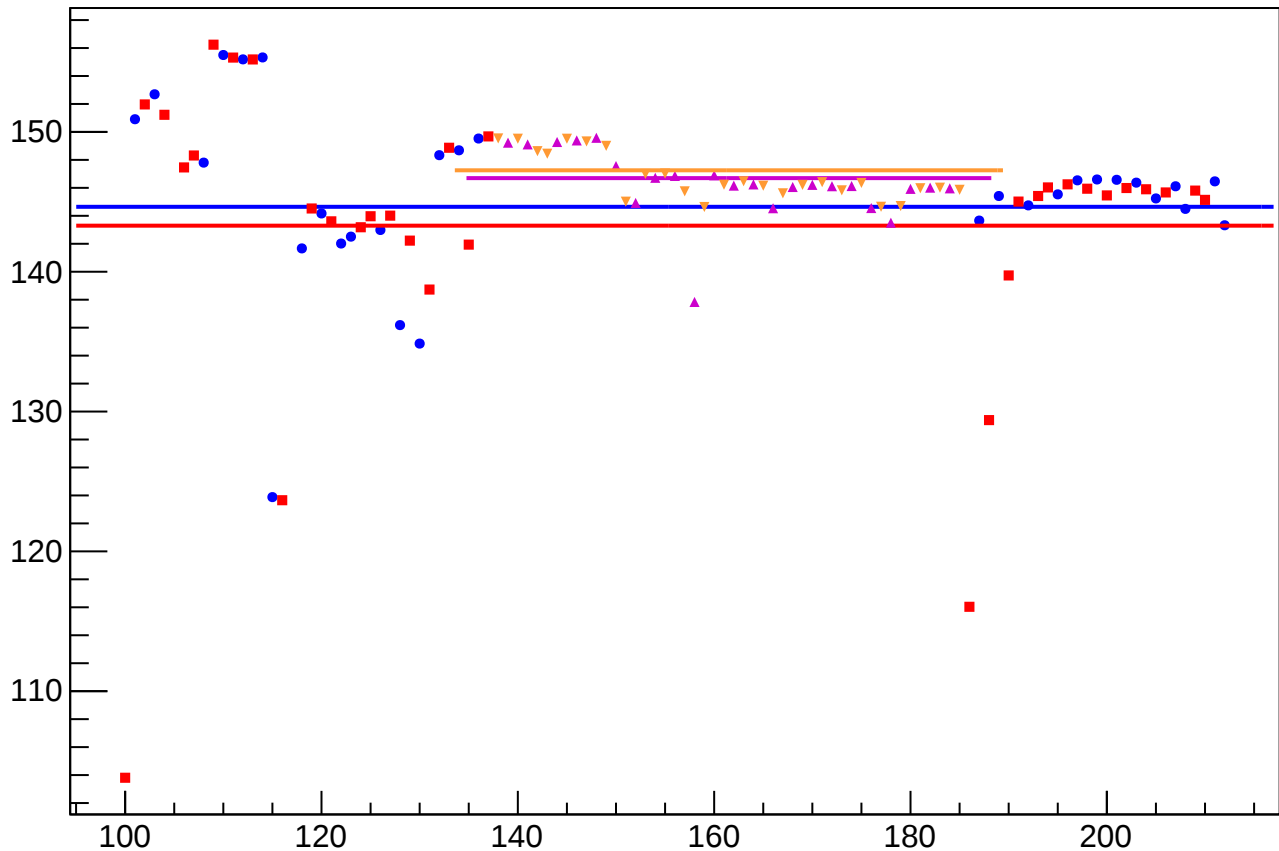
Right: 0.388 $\pm$ 0.000 χ^2/NDF : 6176700.8/62

In: 0.413 $\pm$ 0.000 χ^2/NDF :4946256.4/52

Out: 0.407 $\pm$ 0.000 χ^2/NDF :4982614.0/57

All: 0.410 $\pm$ 0.000 χ^2/NDF : 9935589.4/110

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.644 ± 0.000 χ^2/NDF : 3232422586.3/29

Left Out: 147.255 ± 0.000 χ^2/NDF : 262138049.8/24

Right Out: 143.295 ± 0.000 χ^2/NDF : 7141787396.7/32

Left In: 146.695 ± 0.000 χ^2/NDF : 557896803.1/22

Left: 146.984 ± 0.000 χ^2/NDF : 833217060.4/47

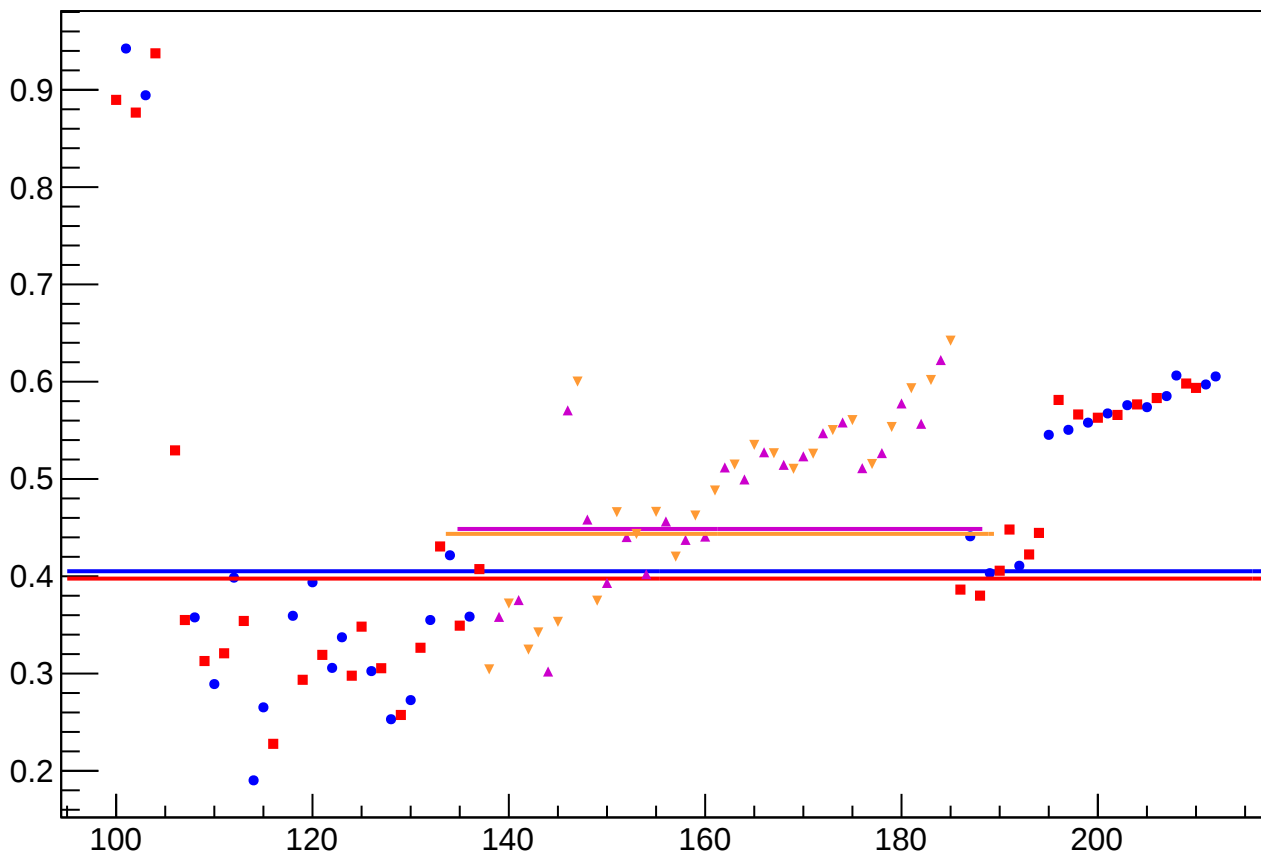
Right: 143.939 ± 0.000 χ^2/NDF : 10452260848.6/62

In: 145.668 ± 0.000 χ^2/NDF : 3962346245.1/52

Out: 145.244 ± 0.000 χ^2/NDF : 8097505731.7/57

All: 145.447 ± 0.000 χ^2/NDF : 12075132756.

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.405 $\pm$ 0.000 χ^2 /NDF: 3168739.0/29

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1483434.7/24

Right Out: 0.398 $\pm$ 0.000 χ^2 /NDF: 2809897.8/32

Left In: 0.449 $\pm$ 0.000 χ^2 /NDF:1132620.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2618207.6/47

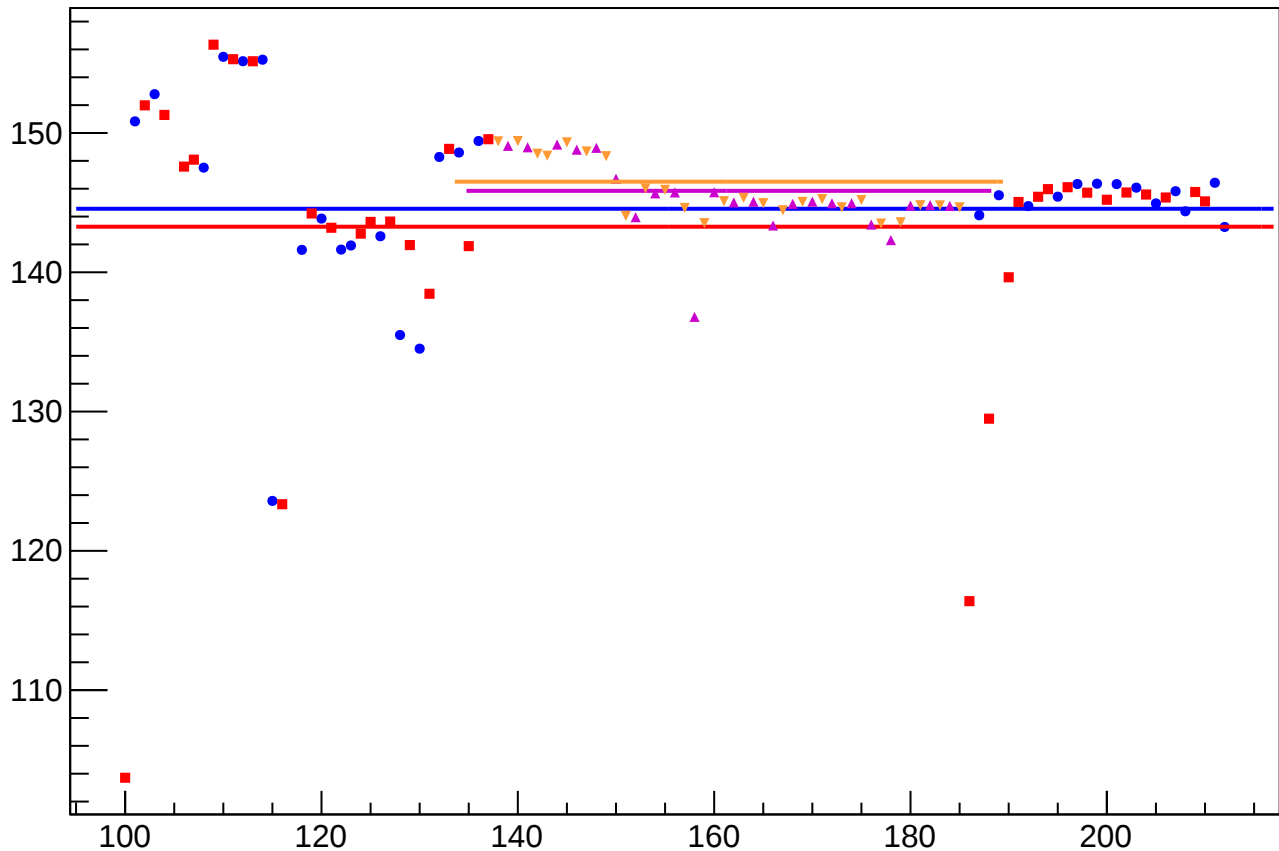
Right: 0.401 $\pm$ 0.000 χ^2 /NDF: 5983552.9/62

In: 0.427 $\pm$ 0.000 χ^2 /NDF:4455796.8/52

Out: 0.420 $\pm$ 0.000 χ^2 /NDF:4480319.9/57

All: 0.423 $\pm$ 0.000 χ^2 /NDF: 8943586.2/110

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.559 $\pm$ 0.000 χ^2 /NDF: 3342359983.3/29

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 143.271 $\pm$ 0.000 χ^2 /NDF: 7094724364.8/32

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

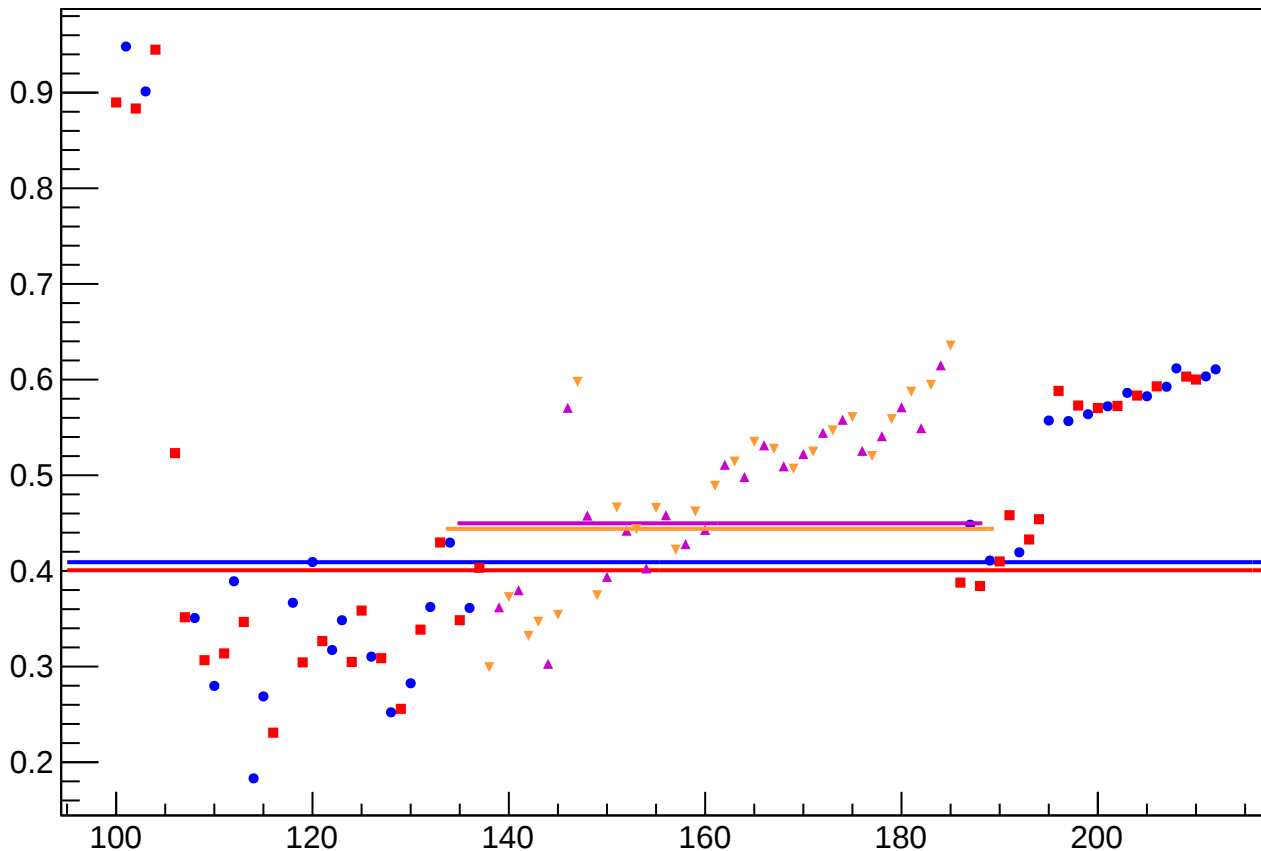
Right: 143.884 $\pm$ 0.000 χ^2 /NDF: 10506719445.6/62

In: 145.207 $\pm$ 0.000 χ^2 /NDF: 4103921459.9/52

Out: 144.876 $\pm$ 0.000 χ^2 /NDF: 7954096943.2/57

All: 145.035 $\pm$ 0.000 χ^2 /NDF: 12067234344.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.409 $\pm$ 0.000 χ^2 /NDF: 3215675.9/29

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.401 $\pm$ 0.000 χ^2 /NDF: 2842938.6/32

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

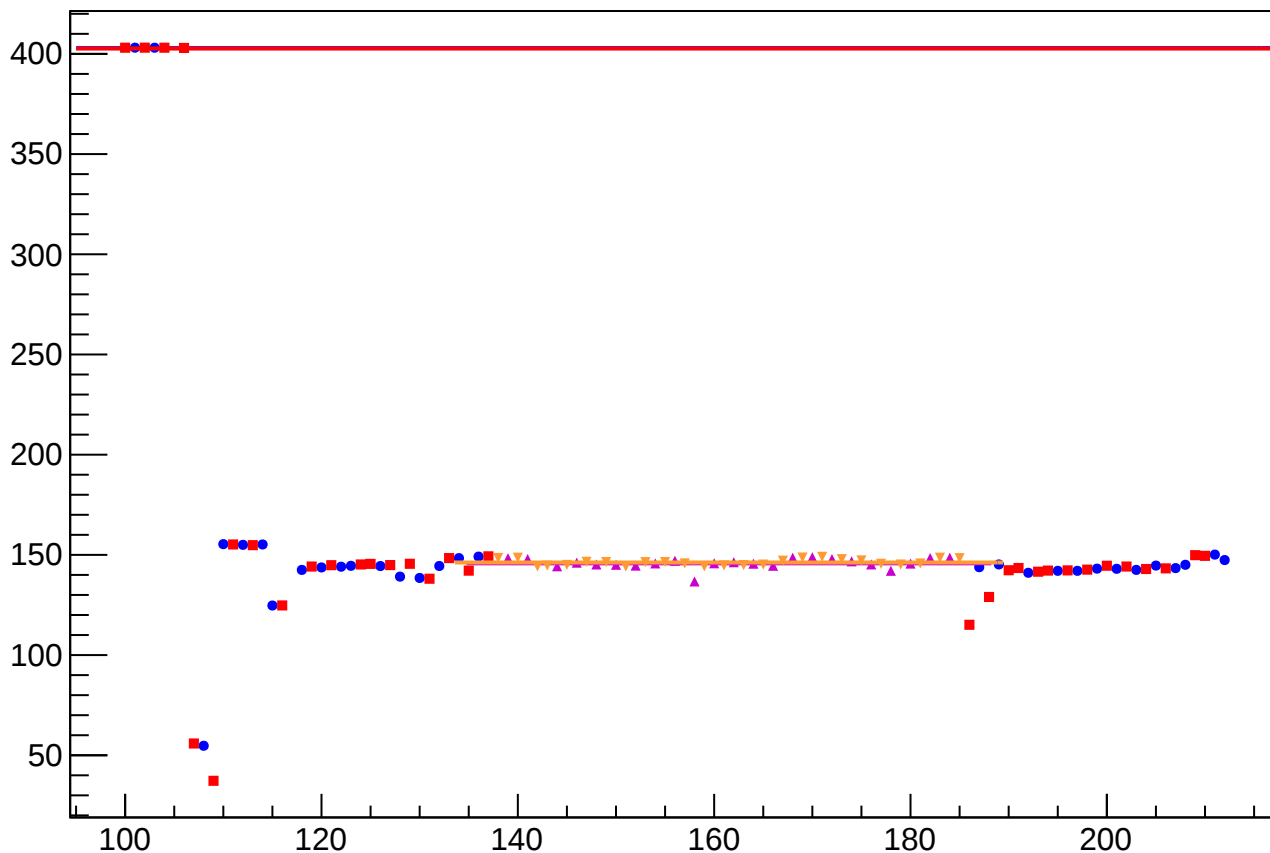
Right: 0.405 $\pm$ 0.000 χ^2 /NDF: 6064591.5/62

In: 0.430 $\pm$ 0.000 χ^2 /NDF:4454264.4/52

Out: 0.422 $\pm$ 0.000 χ^2 /NDF:4470512.1/57

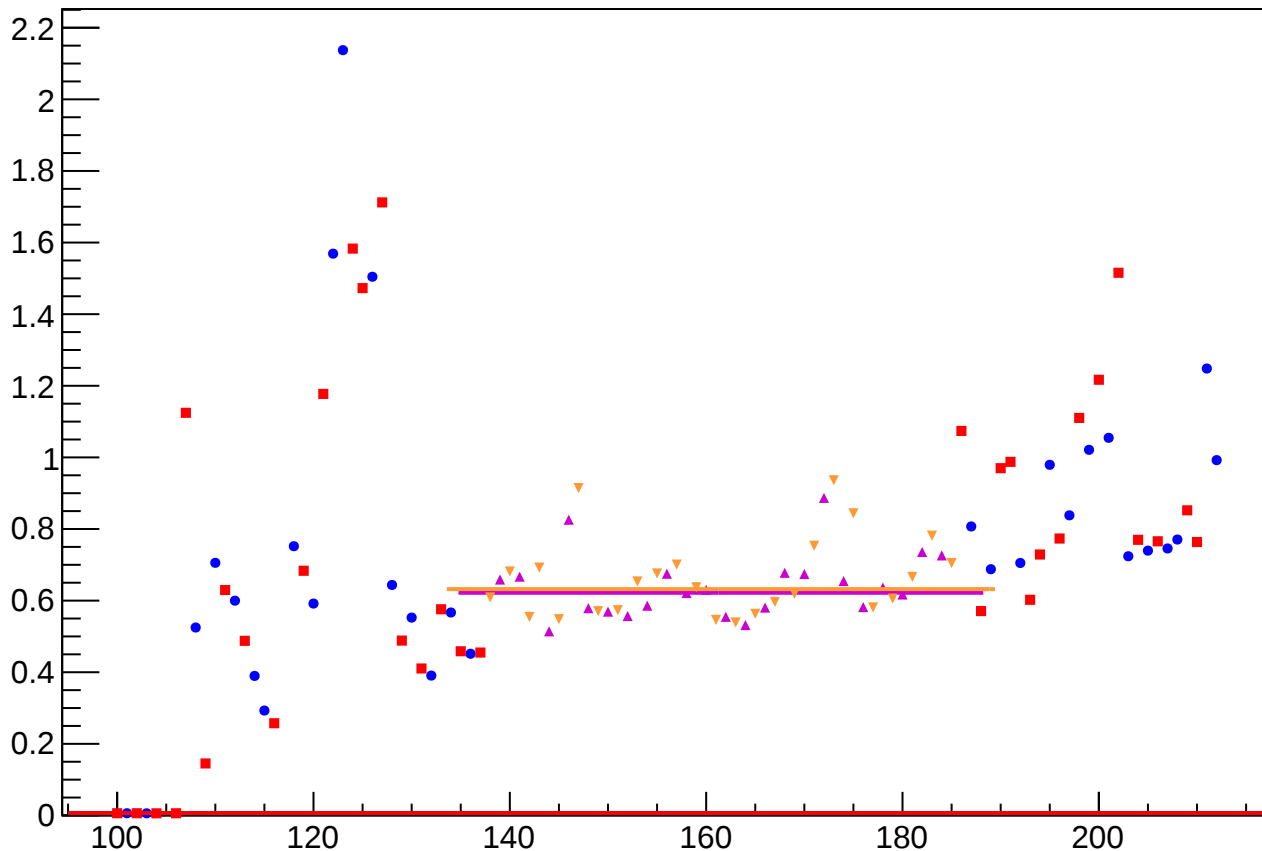
All: 0.426 $\pm$ 0.000 χ^2 /NDF: 8933972.1/110

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.869+/-0.000	χ^2/NDF : 1808461392903.5/29	Left: 145.990+/-0.000	χ^2/NDF : 297342055.1/47
Left Out: 146.205+/-0.000	χ^2/NDF : 86658381.3/24	Right: 402.781+/-0.000	χ^2/NDF : 5792074845747.9
Right Out: 402.704+/-0.000	χ^2/NDF : 3983159574634.1/32	In: 402.576+/-0.000	χ^2/NDF : 4156879809218.0/52
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.442+/-0.000	χ^2/NDF : 6350783860487.6/5
		All: 402.505+/-0.000	χ^2/NDF : 105079619042

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 23709580.2/29

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 24919988.5/32

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

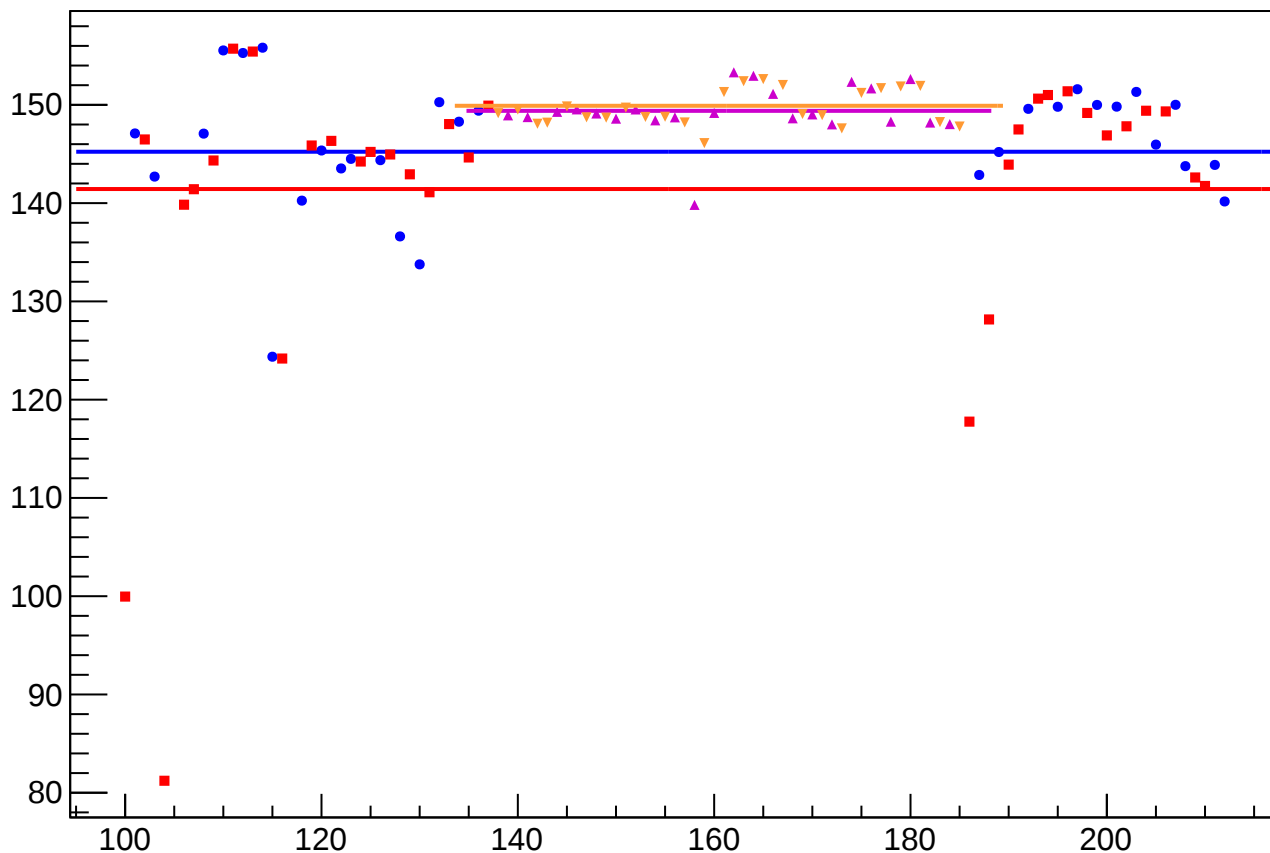
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 48629574.0/62

In: 0.007 $\pm$ 0.000 χ^2 /NDF:51015863.9/52

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:53693528.3/57

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 104709583.6/110

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.229 $\pm$ 0.000

χ^2 /NDF: 1360246864.2/29

Left: 149.657 $\pm$ 0.000

χ^2 /NDF: 606930259.3/47

Left Out: 149.906 $\pm$ 0.000

χ^2 /NDF: 163261802.4/24

Right: 143.140 $\pm$ 0.000

χ^2 /NDF: 4799695460.0/62

Right Out: 141.434 $\pm$ 0.000

χ^2 /NDF: 3249633360.8/32

In: 147.998 $\pm$ 0.000

χ^2 /NDF: 2073306779.3/52

Out: 146.810 $\pm$ 0.000

χ^2 /NDF: 4748599153.8/57

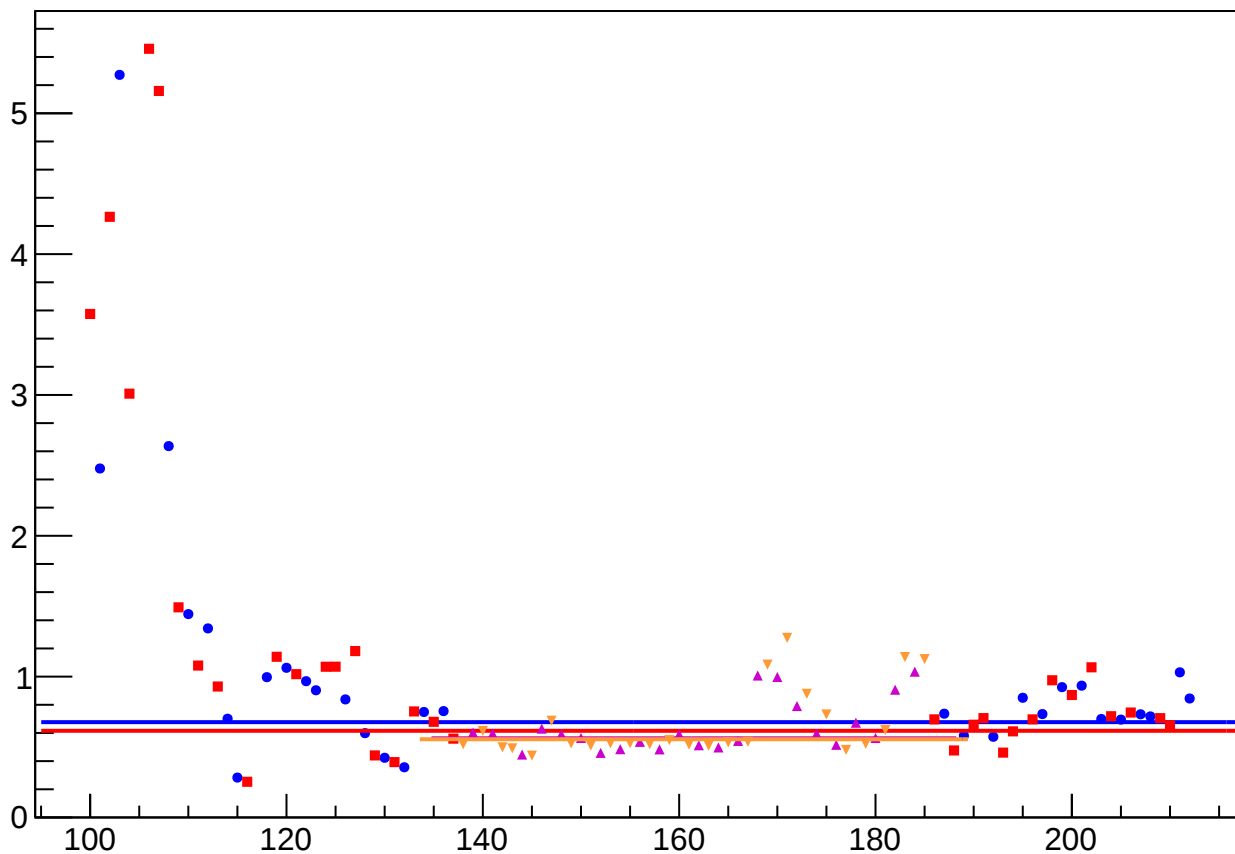
Left In: 149.391 $\pm$ 0.000

χ^2 /NDF: 437129920.4/22

All: 147.370 $\pm$ 0.000

χ^2 /NDF: 6875262972.6

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.677 $\pm$ 0.000 χ^2/NDF : 4185701.4/29

Left Out: 0.555 $\pm$ 0.000 χ^2/NDF :1773380.1/24

Right Out: 0.615 $\pm$ 0.000 χ^2/NDF : 5575070.8/32

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

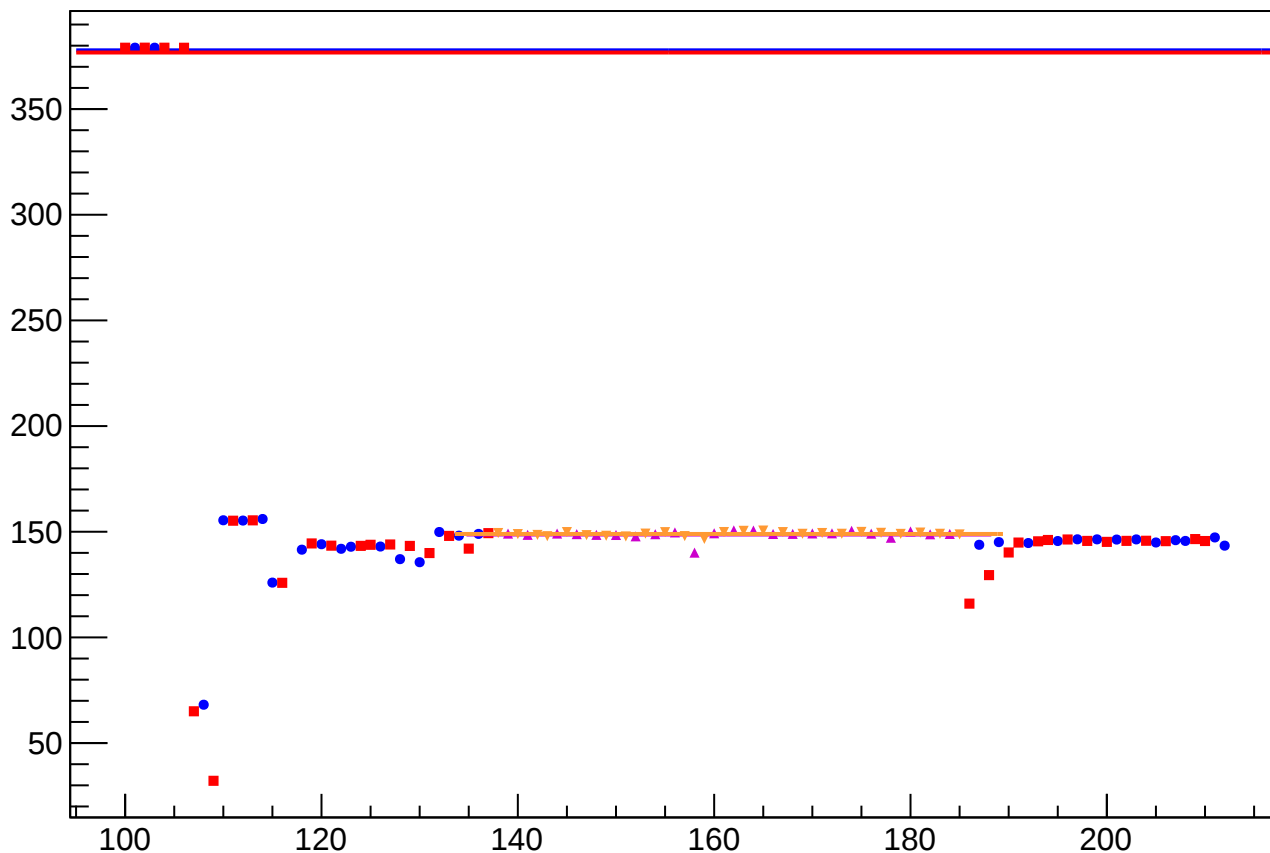
Right: 0.643 $\pm$ 0.000 χ^2/NDF : 9859847.5/62

In: 0.600 $\pm$ 0.000 χ^2/NDF :5915735.4/52

Out: 0.577 $\pm$ 0.000 χ^2/NDF :7482635.0/57

All: 0.588 $\pm$ 0.000 χ^2/NDF : 13438772.0/110

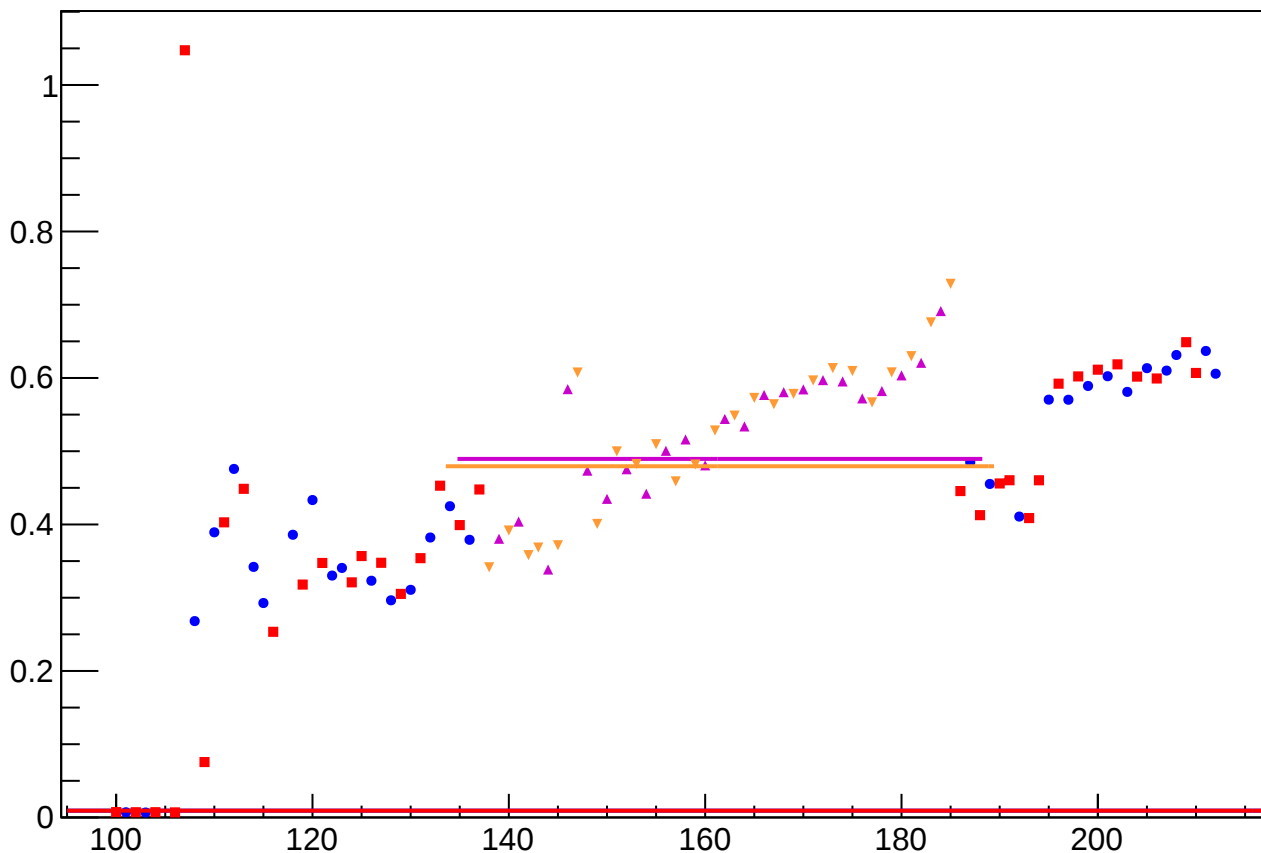
yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.791 $\pm$ 0.000 χ^2 /NDF: 4030112928763.2/29
 Left Out: 148.946 $\pm$ 0.000 χ^2 /NDF: 63974844.7/24
 Right Out: 376.768 $\pm$ 0.000 χ^2 /NDF: 10146999140845.0/32
 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: 377.246 $\pm$ 0.000 χ^2 /NDF: 14184553434441.0
 In: 376.614 $\pm$ 0.000 χ^2 /NDF: 7628852175019.2/52
 Out: 375.653 $\pm$ 0.000 χ^2 /NDF: 14013493029424.8
 All: 376.102 $\pm$ 0.000 χ^2 /NDF: 216489496218

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 27017845.6/29

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 27272811.3/32

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

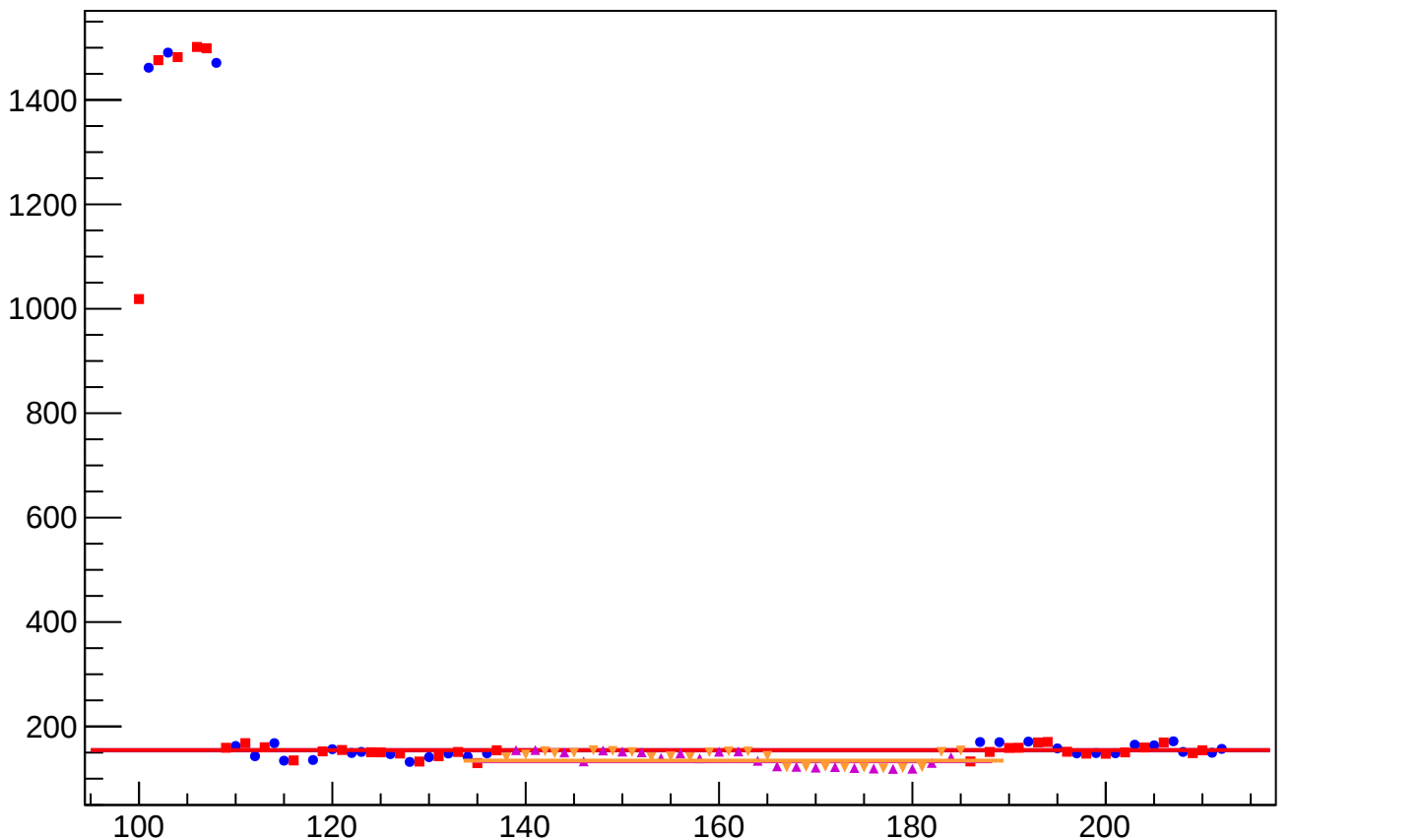
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 54290661.2/62

In: 0.012 $\pm$ 0.000 χ^2 /NDF:59729676.7/52

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:61734865.0/57

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 121465017.3/110

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.531+/-0.000 χ^2/NDF : 25958528406.1/29

Left Out: 134.585+/-0.000 χ^2/NDF : 4387324151.1/24

Right Out: 154.695+/-0.000 χ^2/NDF : 35041536400.7/32

Left In: 133.309+/-0.000 χ^2/NDF : 4353039408.6/22

Left: 133.958+/-0.000 χ^2/NDF : 8759337937.7/47

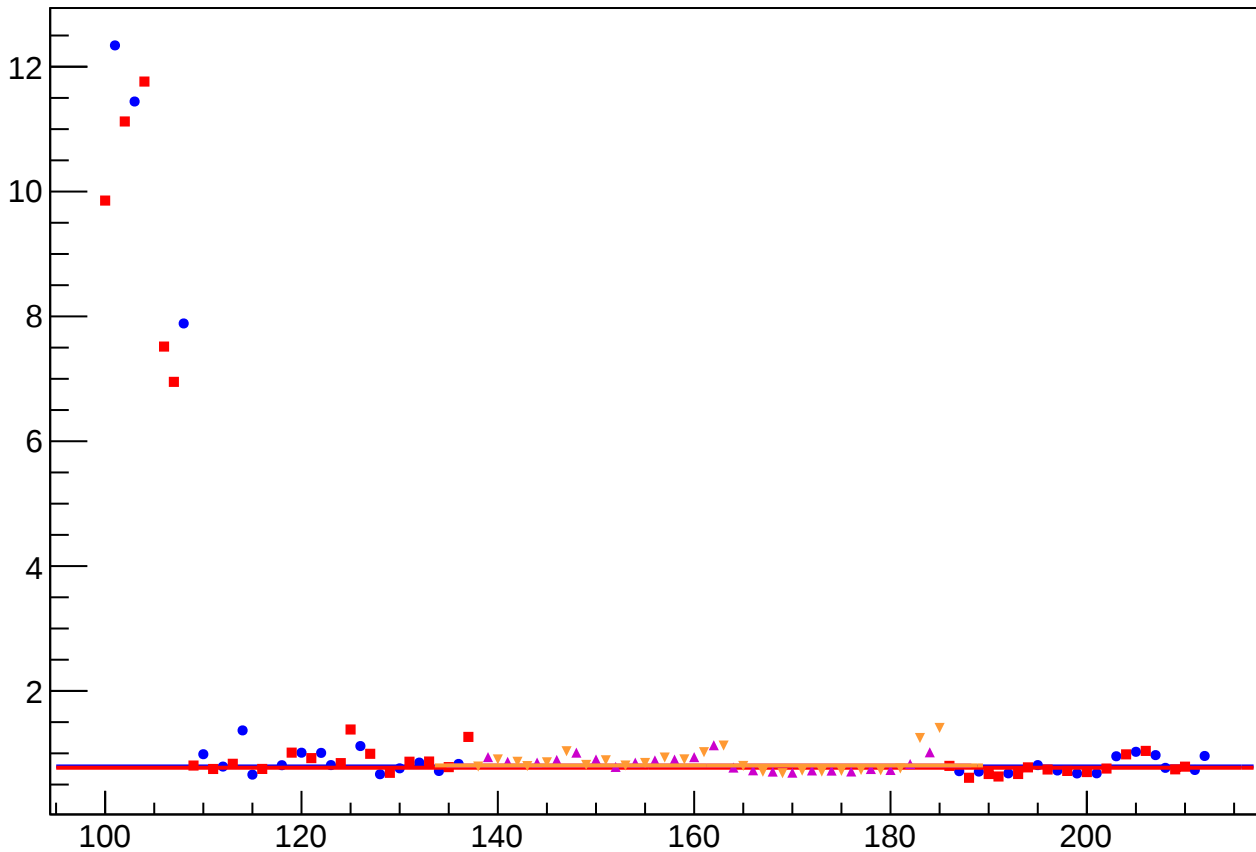
Right: 154.617+/-0.000 χ^2/NDF : 61000326158.1/62

In: 142.836+/-0.000 χ^2/NDF : 34951112692.2/52

Out: 143.907+/-0.000 χ^2/NDF : 43879341956.4/57

All: 143.388+/-0.000 χ^2/NDF : 78855052607.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.790 $\pm$ 0.000 χ^2 /NDF: 3055910.1/29

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF:704181.3/24

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 3302098.5/32

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:479689.4/22

Left: 0.806 $\pm$ 0.000 χ^2 /NDF: 1183976.9/47

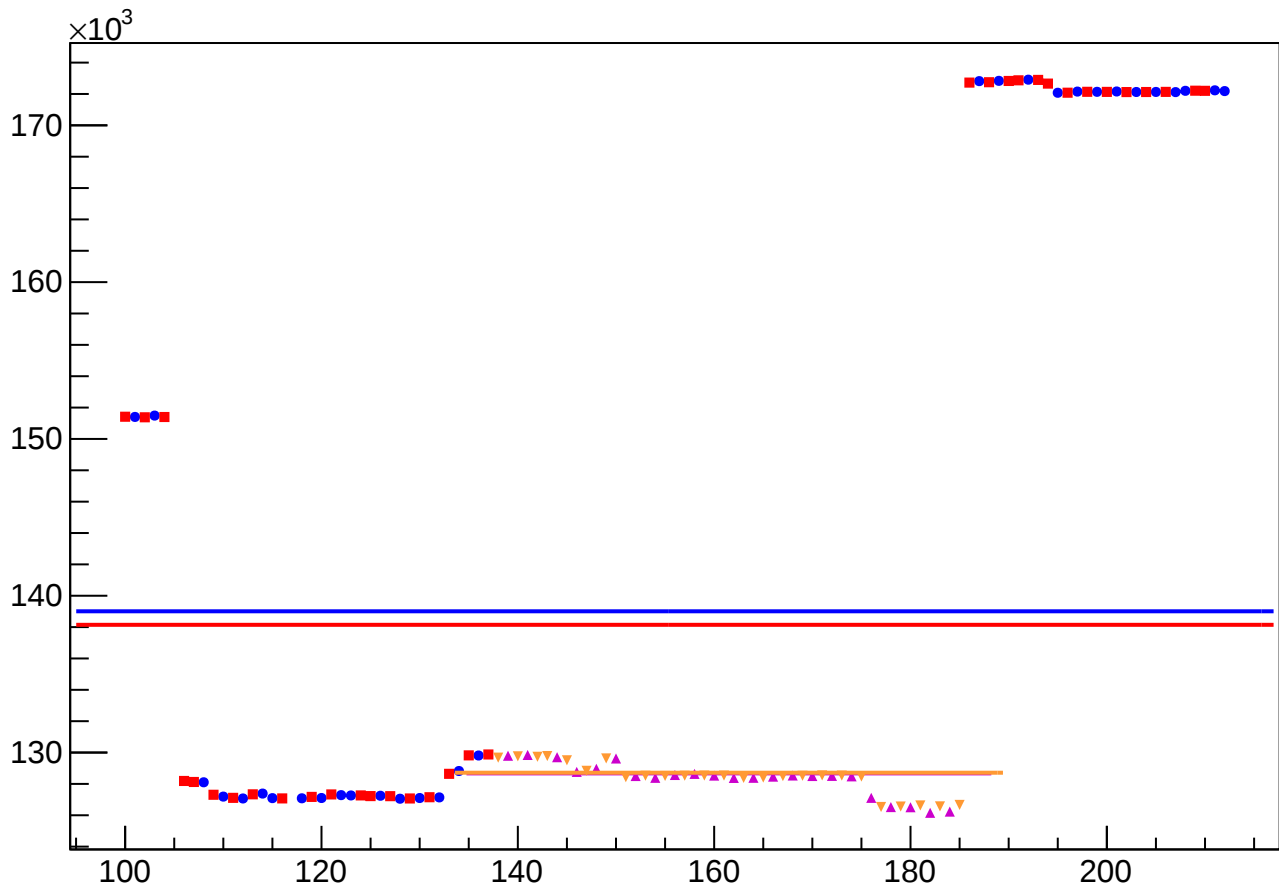
Right: 0.779 $\pm$ 0.000 χ^2 /NDF: 6366305.6/62

In: 0.798 $\pm$ 0.000 χ^2 /NDF:3539832.0/52

Out: 0.789 $\pm$ 0.000 χ^2 /NDF:4036510.1/57

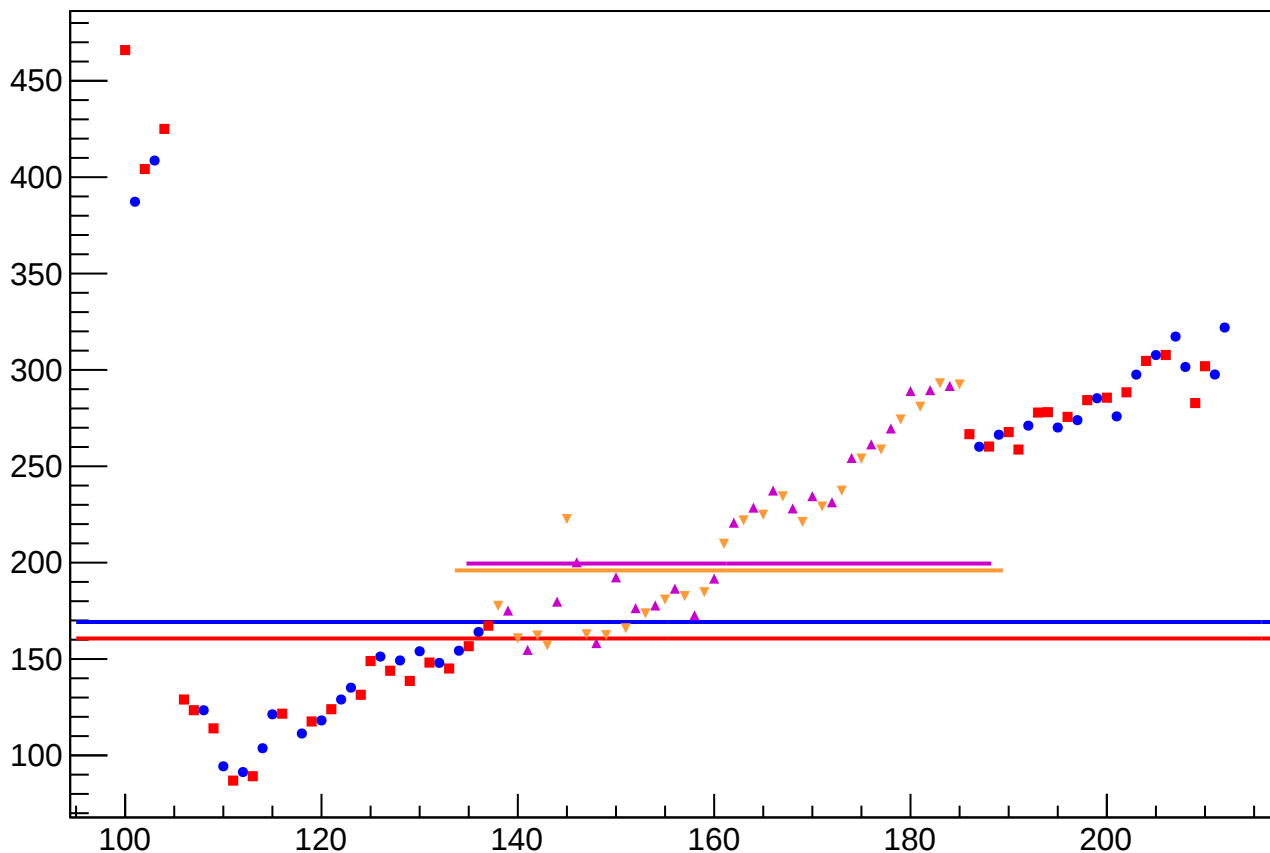
All: 0.794 $\pm$ 0.000 χ^2 /NDF: 7579524.9/110

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 139008.108 $\pm$ 0.047 χ^2 /NDF: 167165776526.4/29
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 138145.658 $\pm$ 0.044 χ^2 /NDF: 182764711700.5/32
 Left In: 128670.094 $\pm$ 0.049 χ^2 /NDF: 334875494.0/22
 Left: 128692.941 $\pm$ 0.034 χ^2 /NDF: 683588051.4/47
 Right: 138547.216 $\pm$ 0.032 χ^2 /NDF: 350107617232
 In: 133996.133 $\pm$ 0.034 χ^2 /NDF: 190589506713.2
 Out: 133682.178 $\pm$ 0.032 χ^2 /NDF: 204644714645.
 All: 133830.093 $\pm$ 0.023 χ^2 /NDF: 395279310

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 169.200 $\pm$ 0.033 χ^2 /NDF: 5716564.1/29

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 160.654 $\pm$ 0.031 χ^2 /NDF: 6077380.7/32

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

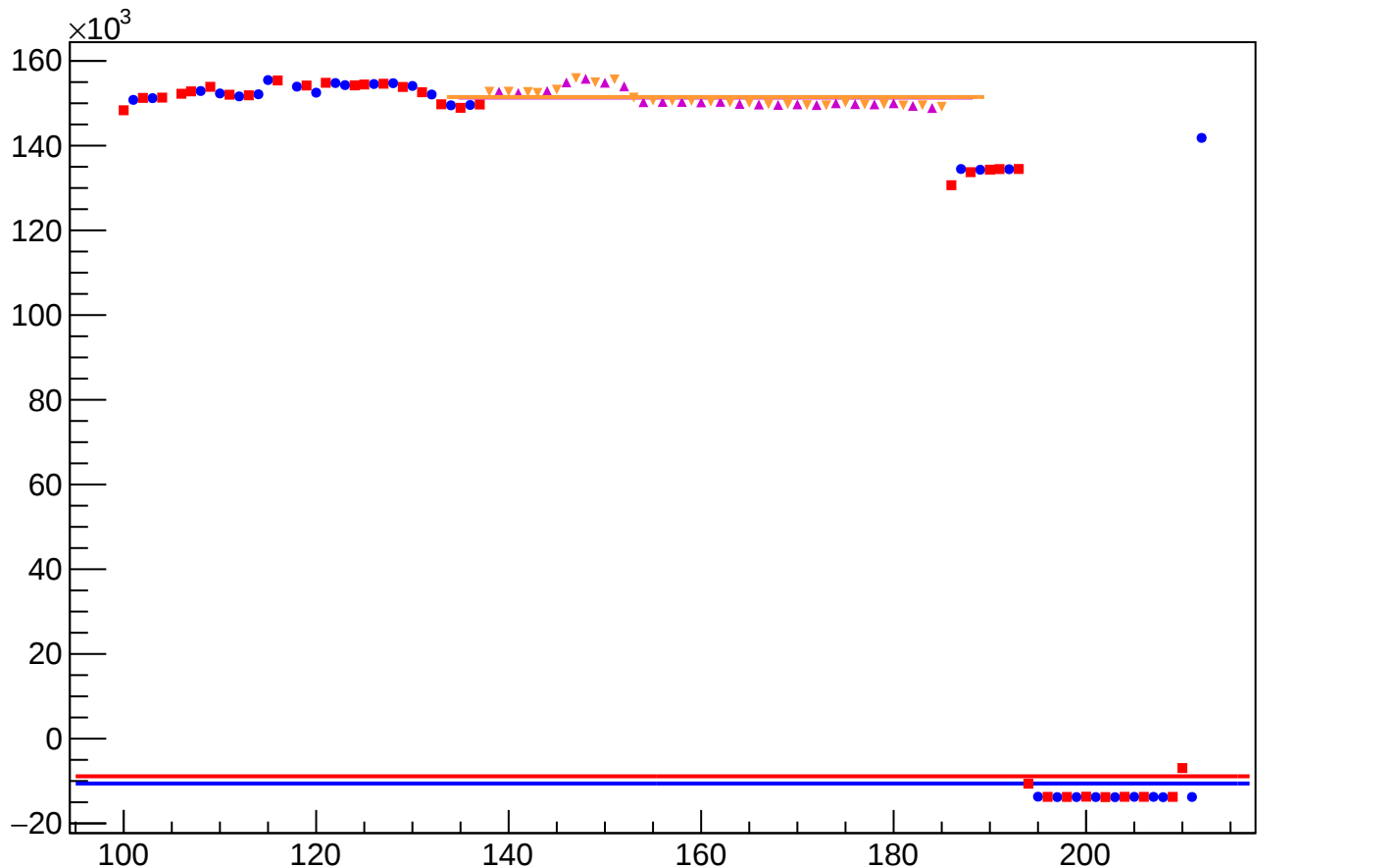
Right: 164.633 $\pm$ 0.023 χ^2 /NDF: 11828733.8/62

In: 183.905 $\pm$ 0.024 χ^2 /NDF:7289400.3/52

Out: 177.364 $\pm$ 0.023 χ^2 /NDF:7997026.2/57

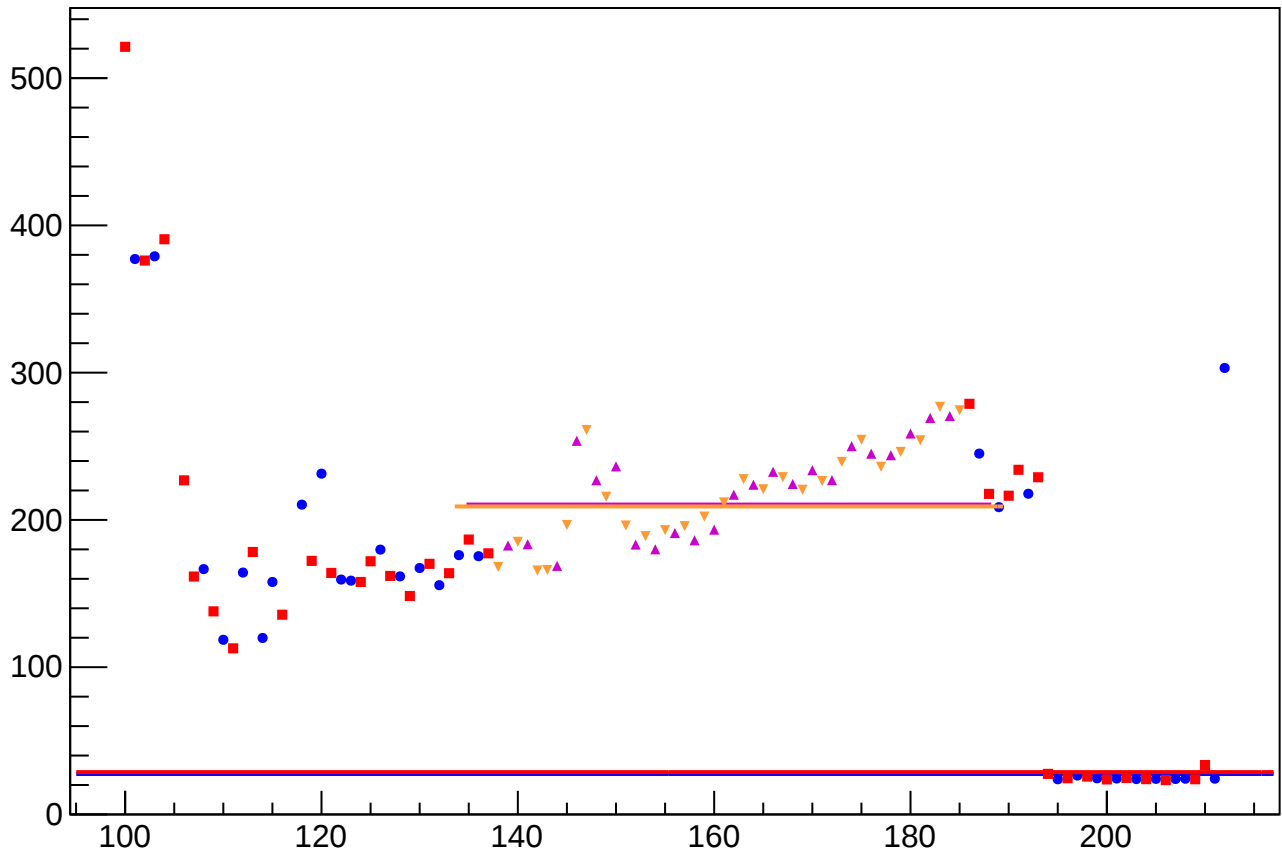
All: 180.445 $\pm$ 0.017 χ^2 /NDF: 15325573.5/11

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10582.071+/-0.009	$\chi^2/\text{NDF}: 6047576716921.2/29$	Left: 151423.440+/-0.036	$\chi^2/\text{NDF}: 2913216467.1/4$
Left Out: 151480.339+/-0.049	$\chi^2/\text{NDF}: 1483692735.3/24$	Right: -9808.899+/-0.007	$\chi^2/\text{NDF}: 1323379256185$
Right Out: -8883.791+/-0.010	$\chi^2/\text{NDF}: 7170683740408.3/32$	In: -5527.156+/-0.009	$\chi^2/\text{NDF}: 15732328747394.6$
Left In: 151362.440+/-0.051	$\chi^2/\text{NDF}: 1426782789.9/22$	Out: -2519.157+/-0.010	$\chi^2/\text{NDF}: 17262589983665$
		All: -4151.153+/-0.007	$\chi^2/\text{NDF}: 3304545618$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.493+/-0.007 χ^2/NDF : 12636230.6/29

Left Out: 209.156+/-0.035 χ^2/NDF : 710094.9/24

Right Out: 28.758+/-0.007 χ^2/NDF : 13526895.5/32

Left In: 210.431+/-0.036 χ^2/NDF : 684015.0/22

Left: 209.771+/-0.025 χ^2/NDF : 1394750.9/47

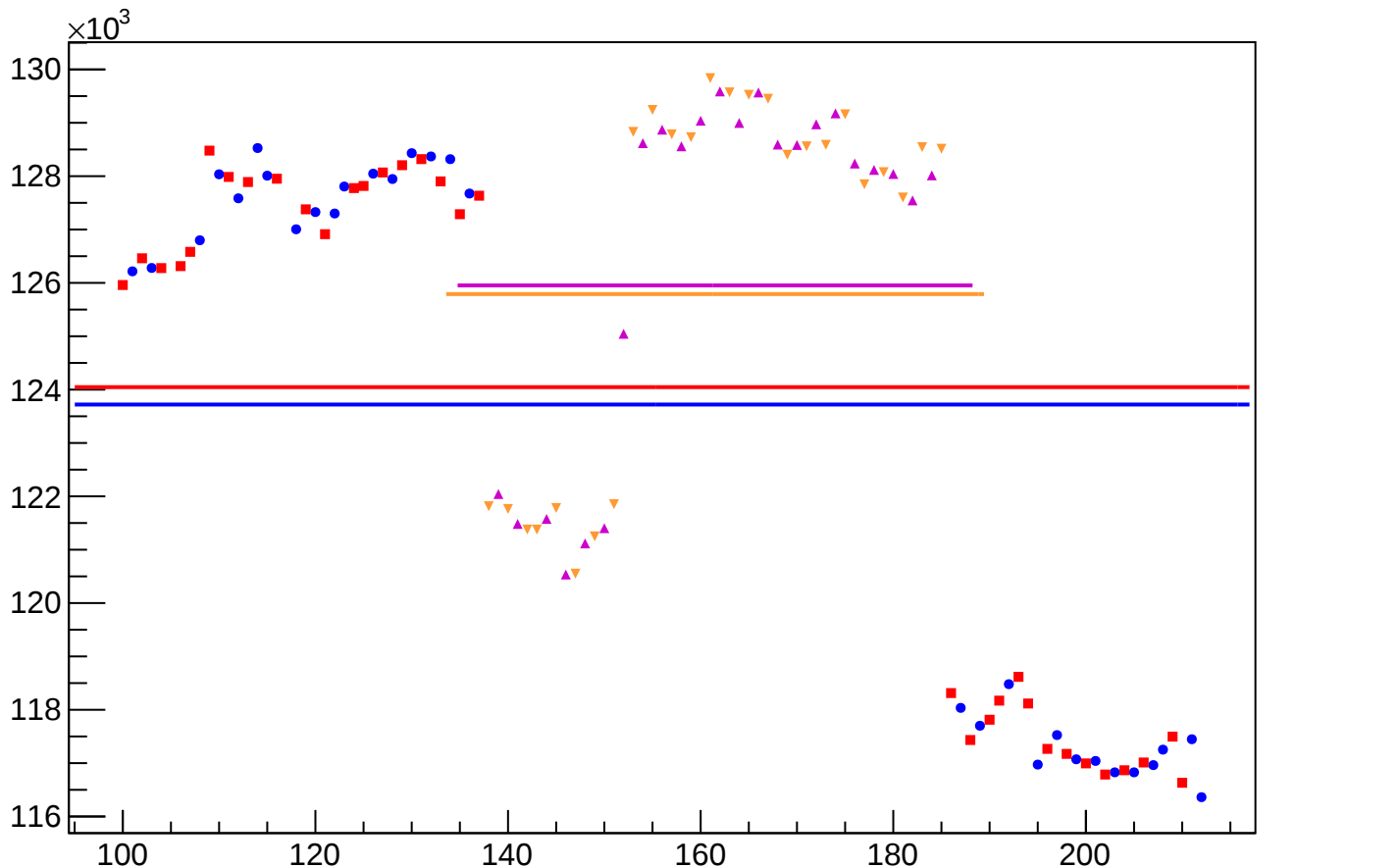
Right: 28.069+/-0.005 χ^2/NDF : 26180347.1/62

In: 33.204+/-0.006 χ^2/NDF : 38033285.2/52

Out: 35.918+/-0.007 χ^2/NDF : 39775006.3/57

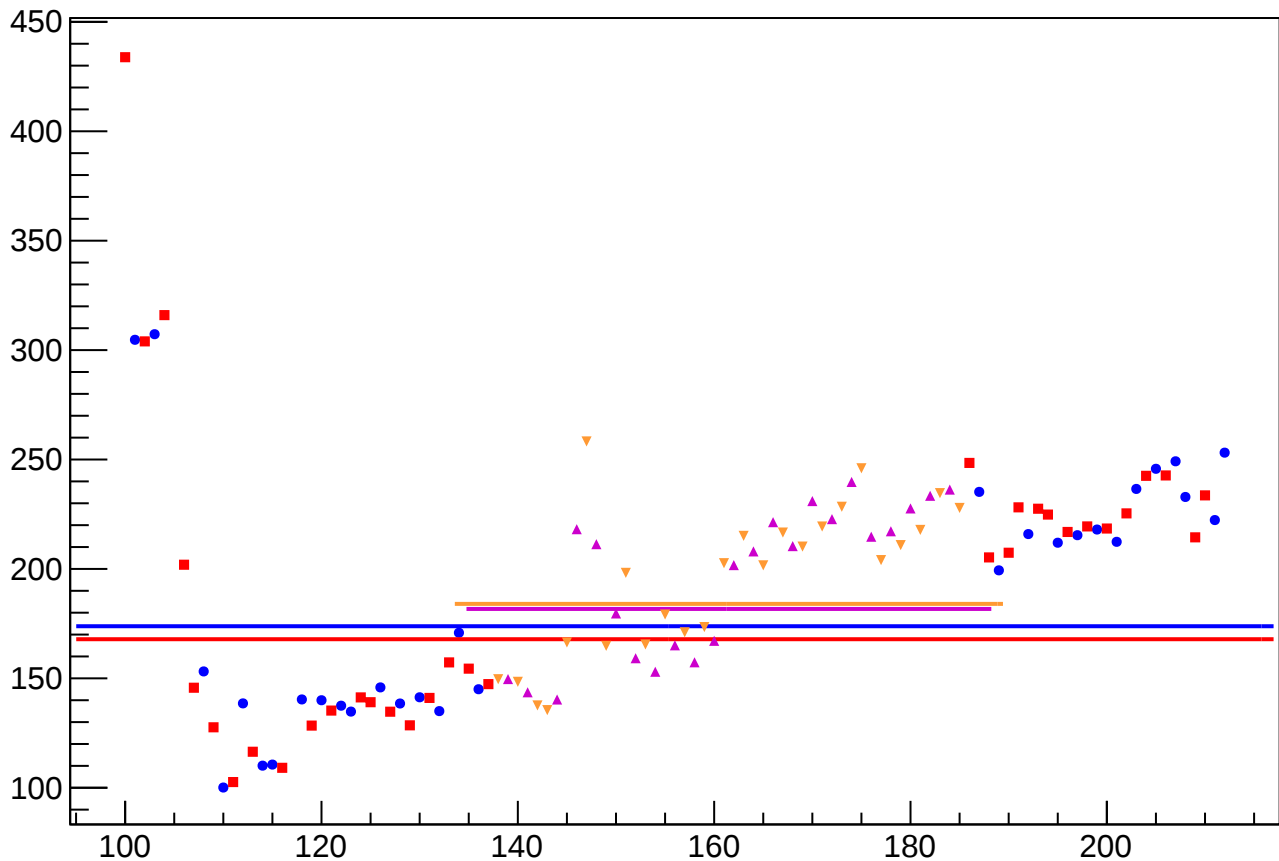
All: 34.445+/-0.005 χ^2/NDF : 77890576.1/110

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123720.288+/-0.046	χ^2/NDF : 12402050965.5/29	Left: 125870.001+/-0.031	χ^2/NDF : 12592819321.6/29
Left Out: 125790.126+/-0.044	χ^2/NDF : 6744310079.8/24	Right: 123891.258+/-0.032	χ^2/NDF : 25348795000.0/24
Right Out: 124046.437+/-0.044	χ^2/NDF : 12920301168.2/32	In: 124867.374+/-0.032	χ^2/NDF : 19458061408.1/32
Left In: 125952.447+/-0.045	χ^2/NDF : 5841800367.5/22	Out: 124914.067+/-0.031	χ^2/NDF : 20455044866.5/22
		All: 124891.466+/-0.022	χ^2/NDF : 399142036.0/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 173.814 $\pm$ 0.032 χ^2 /NDF: 2447946.5/29

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF:1126592.5/24

Right Out: 167.879 $\pm$ 0.031 χ^2 /NDF: 2809834.2/32

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

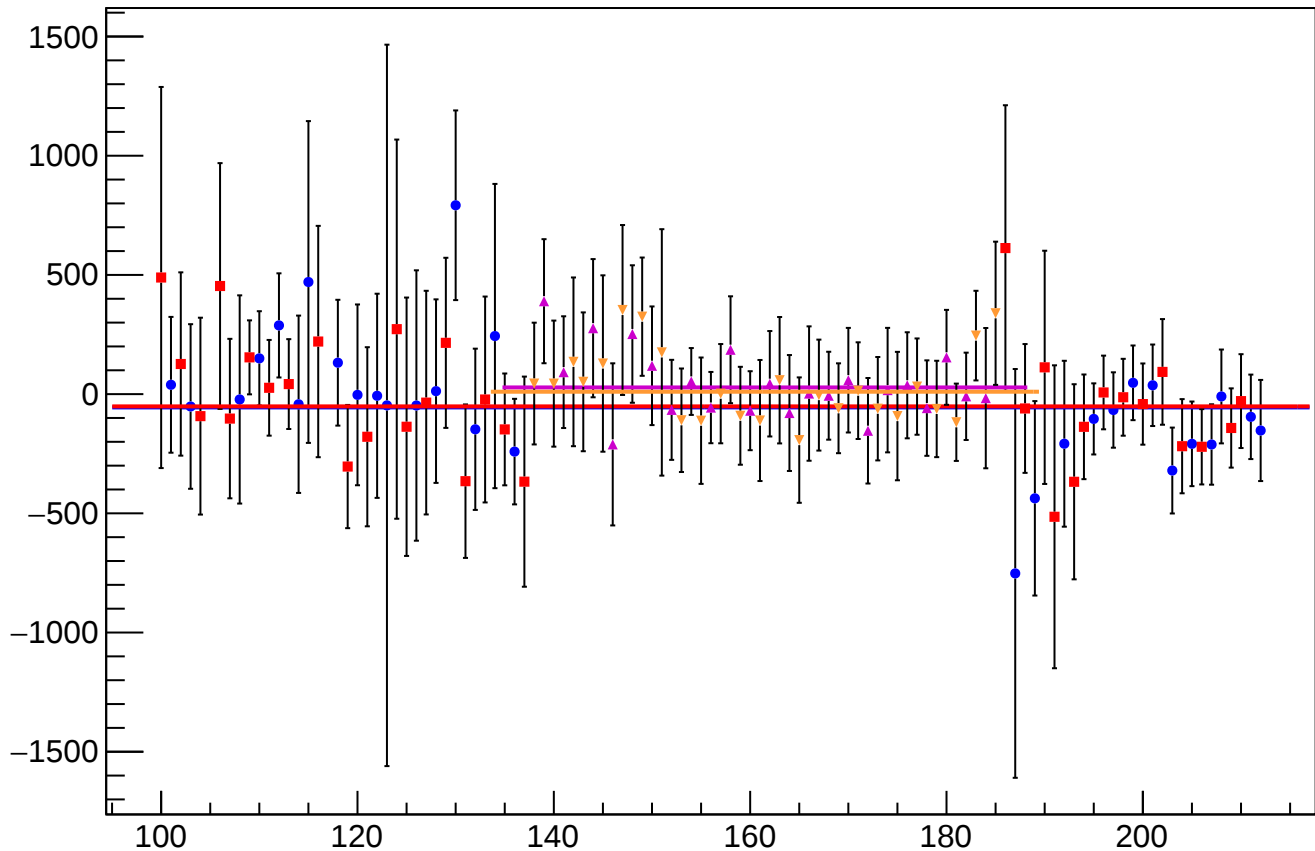
Right: 170.703 $\pm$ 0.022 χ^2 /NDF: 5275292.7/62

In: 177.874 $\pm$ 0.023 χ^2 /NDF:3594507.1/52

Out: 175.915 $\pm$ 0.022 χ^2 /NDF:4072045.3/57

All: 176.863 $\pm$ 0.016 χ^2 /NDF: 7670414.1/110

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -55.736 ± 44.274 $\chi^2/\text{NDF}: 17.0/29$

Left Out: 10.078 ± 47.488 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -51.449 ± 44.012 $\chi^2/\text{NDF}: 13.0/32$

Left In: 28.050 ± 44.573 $\chi^2/\text{NDF}: 7.0/22$

Left: 19.632 ± 32.499 $\chi^2/\text{NDF}: 15.5/47$

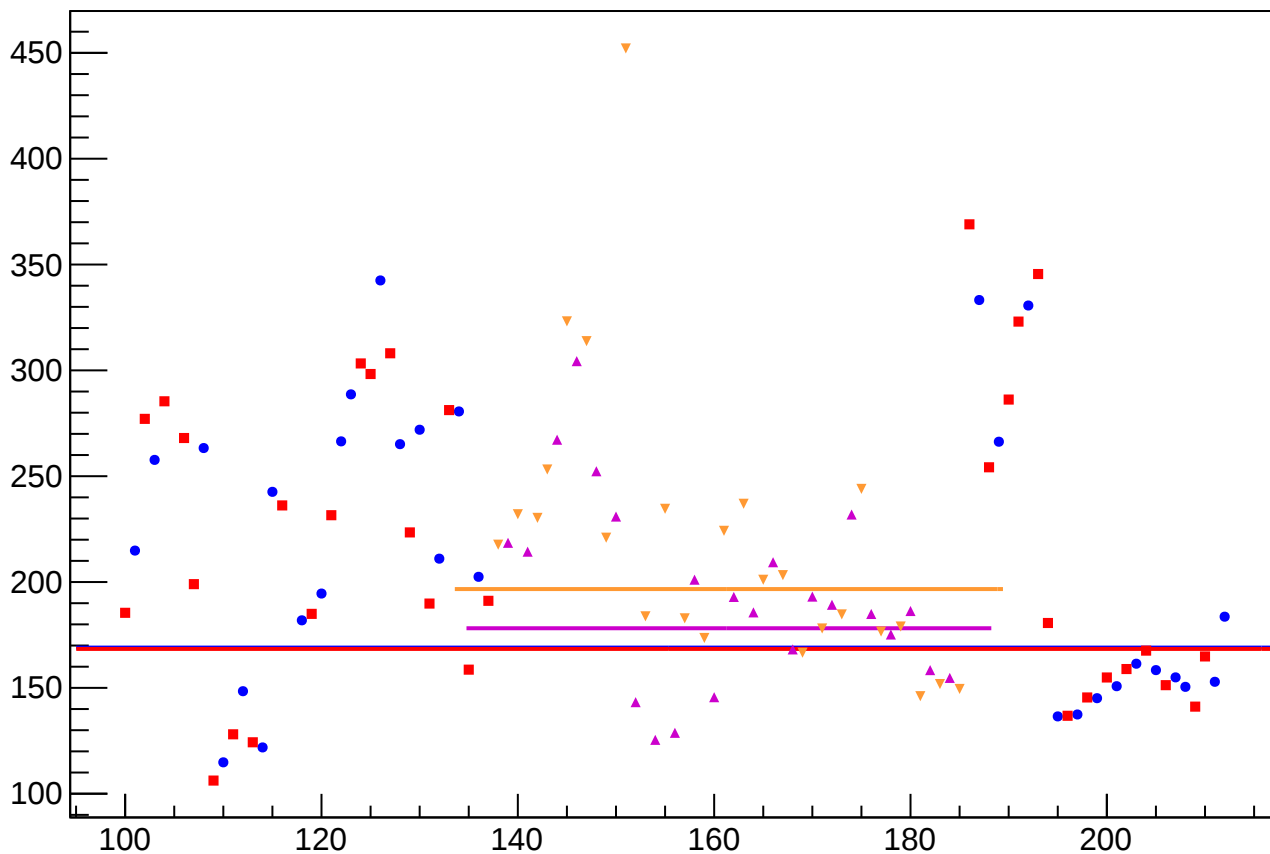
Right: -53.580 ± 31.214 $\chi^2/\text{NDF}: 30.0/62$

In: -14.124 ± 31.412 $\chi^2/\text{NDF}: 25.8/52$

Out: -23.020 ± 32.280 $\chi^2/\text{NDF}: 22.4/57$

All: -18.451 ± 22.512 $\chi^2/\text{NDF}: 48.2/110$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 169.026 $\pm$ 0.031 χ^2/NDF : 2145730.1/29

Left Out: 196.682 $\pm$ 0.034 χ^2/NDF : 1782715.7/24

Right Out: 168.405 $\pm$ 0.031 χ^2/NDF : 2839514.5/32

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

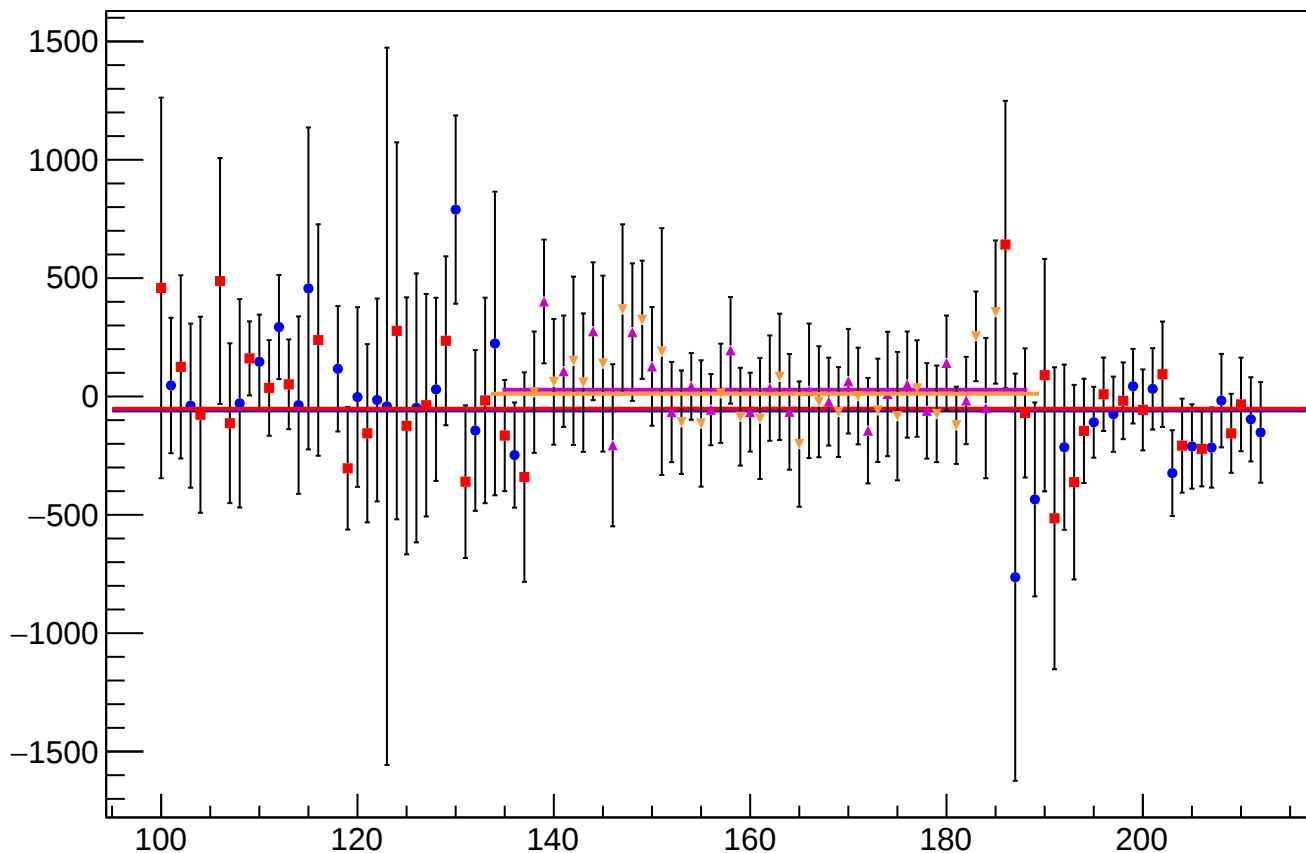
Right: 168.713 $\pm$ 0.022 χ^2/NDF : 4985442.5/62

In: 173.565 $\pm$ 0.022 χ^2/NDF : 3807027.9/52

Out: 181.471 $\pm$ 0.023 χ^2/NDF : 5003687.1/57

All: 177.410 $\pm$ 0.016 χ^2/NDF : 8872329.3/110

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -58.880 ± 44.476 $\chi^2/\text{NDF}: 16.9/29$

Left Out: 11.479 ± 47.819 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -51.784 ± 44.229 $\chi^2/\text{NDF}: 13.3/32$

Left In: 28.280 ± 44.863 $\chi^2/\text{NDF}: 7.1/22$

Left: 20.415 ± 32.718 $\chi^2/\text{NDF}: 16.0/47$

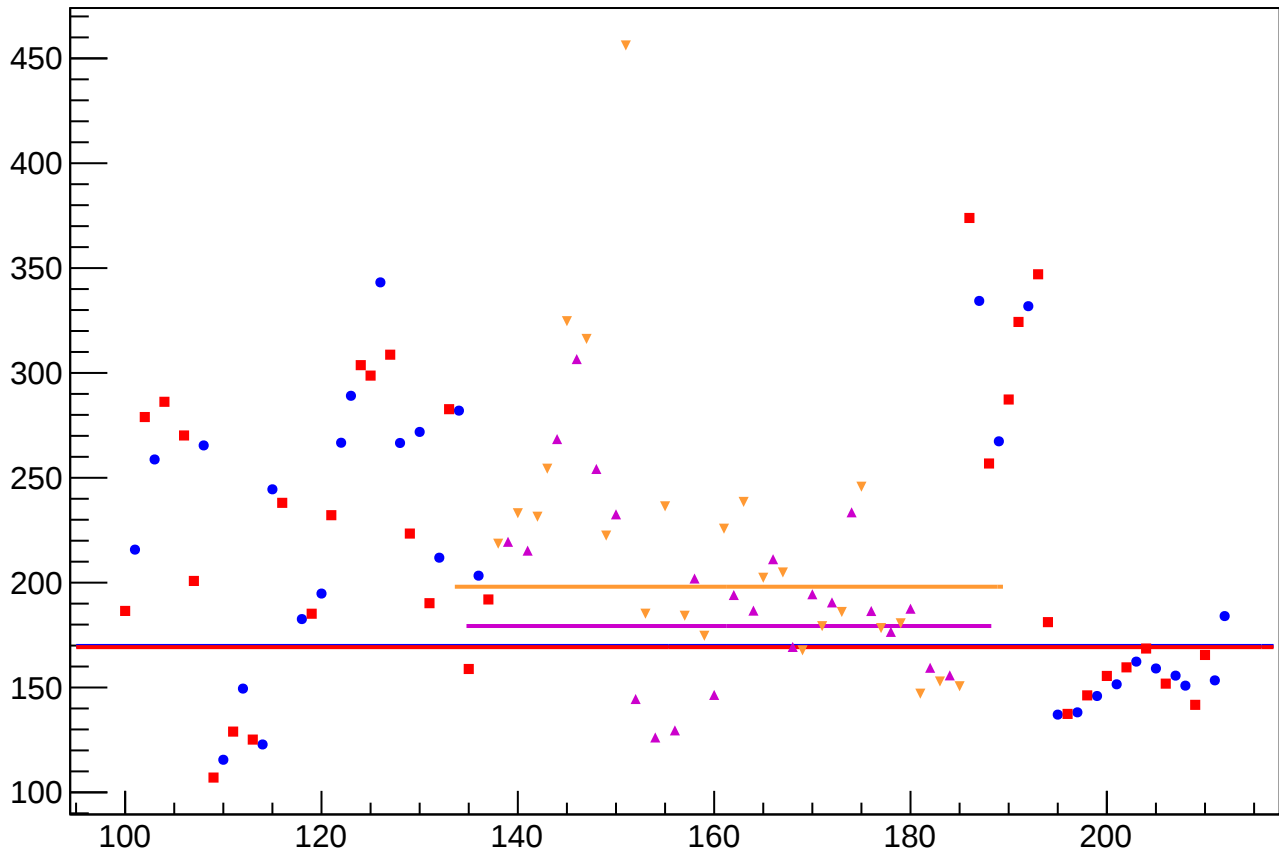
Right: -55.312 ± 31.361 $\chi^2/\text{NDF}: 30.3/62$

In: -15.678 ± 31.585 $\chi^2/\text{NDF}: 25.9/52$

Out: -22.616 ± 32.470 $\chi^2/\text{NDF}: 23.1/57$

All: -19.051 ± 22.640 $\chi^2/\text{NDF}: 49.1/110$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 169.816 $\pm$ 0.031 χ^2 /NDF: 2137285.1/29

Left Out: 198.059 $\pm$ 0.034 χ^2 /NDF: 1778526.5/24

Right Out: 169.242 $\pm$ 0.031 χ^2 /NDF: 2835593.3/32

Left In: 179.324 $\pm$ 0.032 χ^2 /NDF: 1618266.2/22

Left: 188.094 $\pm$ 0.023 χ^2 /NDF: 3560073.1/47

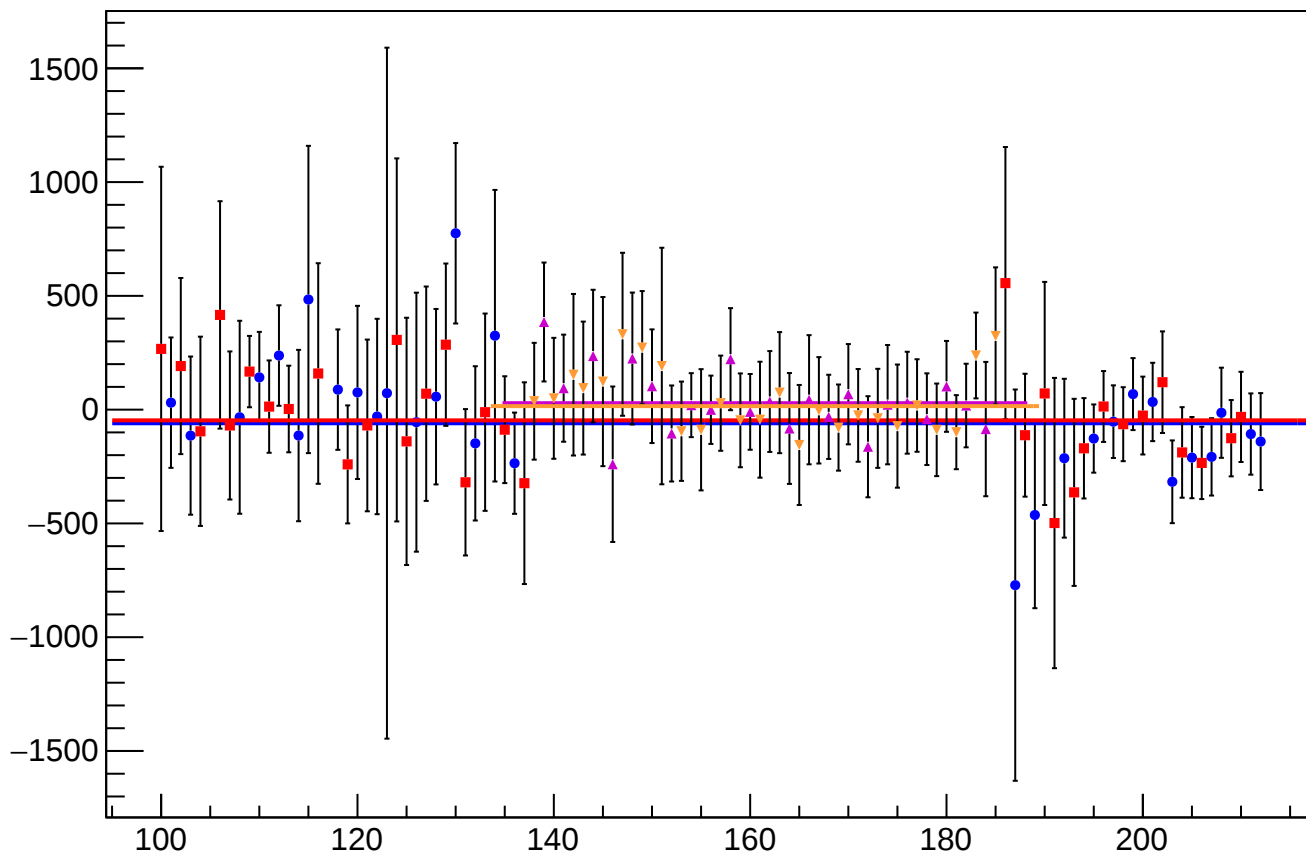
Right: 169.528 $\pm$ 0.022 χ^2 /NDF: 4973046.1/62

In: 174.529 $\pm$ 0.022 χ^2 /NDF: 3800850.6/52

Out: 182.528 $\pm$ 0.023 χ^2 /NDF: 5005558.4/57

All: 178.418 $\pm$ 0.016 χ^2 /NDF: 8868777.7/110

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -59.870 $\pm$ 44.562 χ^2 /NDF: 16.4/29

Left Out: 15.437 $\pm$ 47.695 χ^2 /NDF:7.0/24

Right Out: -47.057 $\pm$ 44.257 χ^2 /NDF: 11.9/32

Left In: 28.277 $\pm$ 44.743 χ^2 /NDF:6.4/22

Left: 22.267 $\pm$ 32.632 χ^2 /NDF: 13.4/47

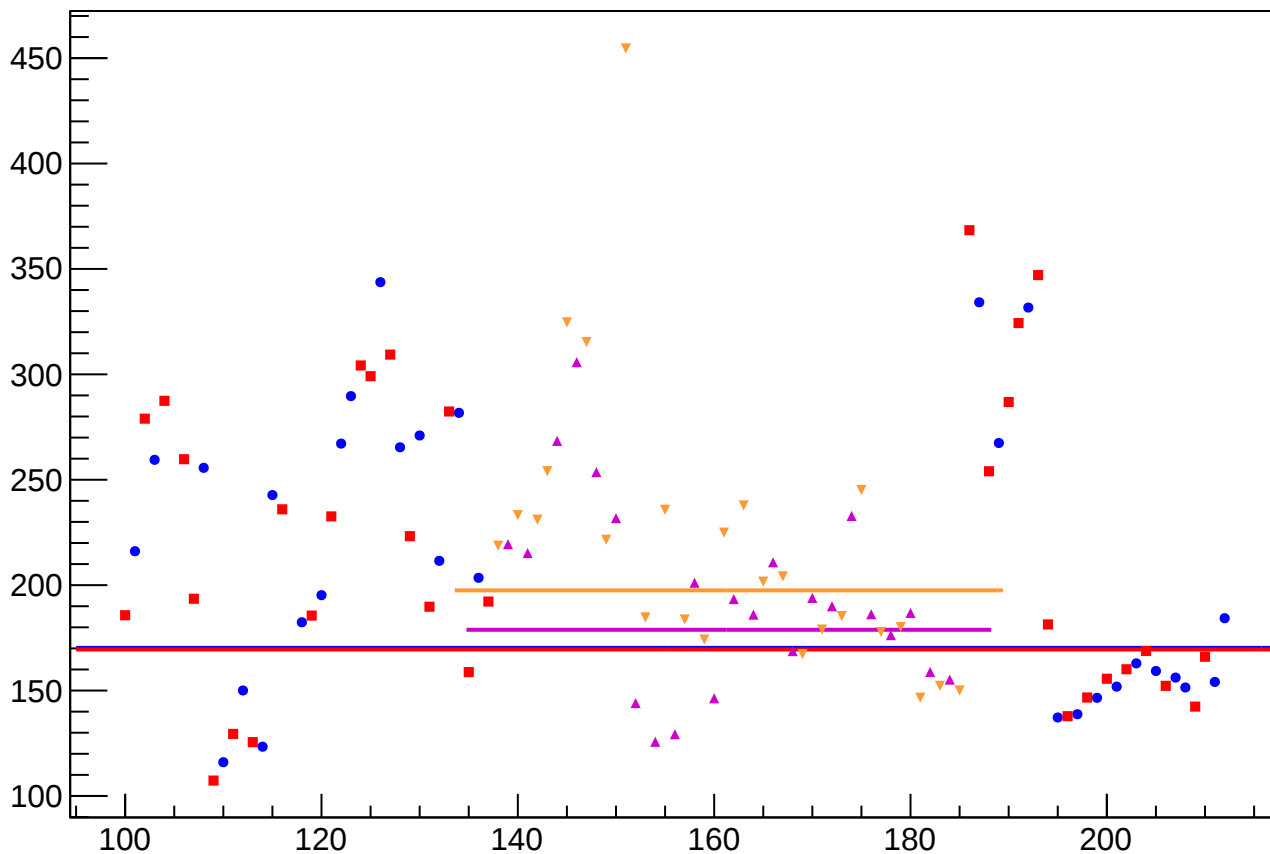
Right: -53.420 $\pm$ 31.401 χ^2 /NDF: 28.3/62

In: -15.976 $\pm$ 31.574 χ^2 /NDF:24.7/52

Out: -18.143 $\pm$ 32.442 χ^2 /NDF:19.8/57

All: -17.030 $\pm$ 22.627 χ^2 /NDF: 44.5/110

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 170.240 ± 0.032 χ^2/NDF : 2104530.6/29

Left Out: 197.527 ± 0.034 χ^2/NDF : 1784225.5/24

Right Out: 169.483 ± 0.031 χ^2/NDF : 2787867.2/32

Left In: 178.836 ± 0.032 χ^2/NDF : 1622266.9/22

Left: 187.585 ± 0.023 χ^2/NDF : 3569877.1/47

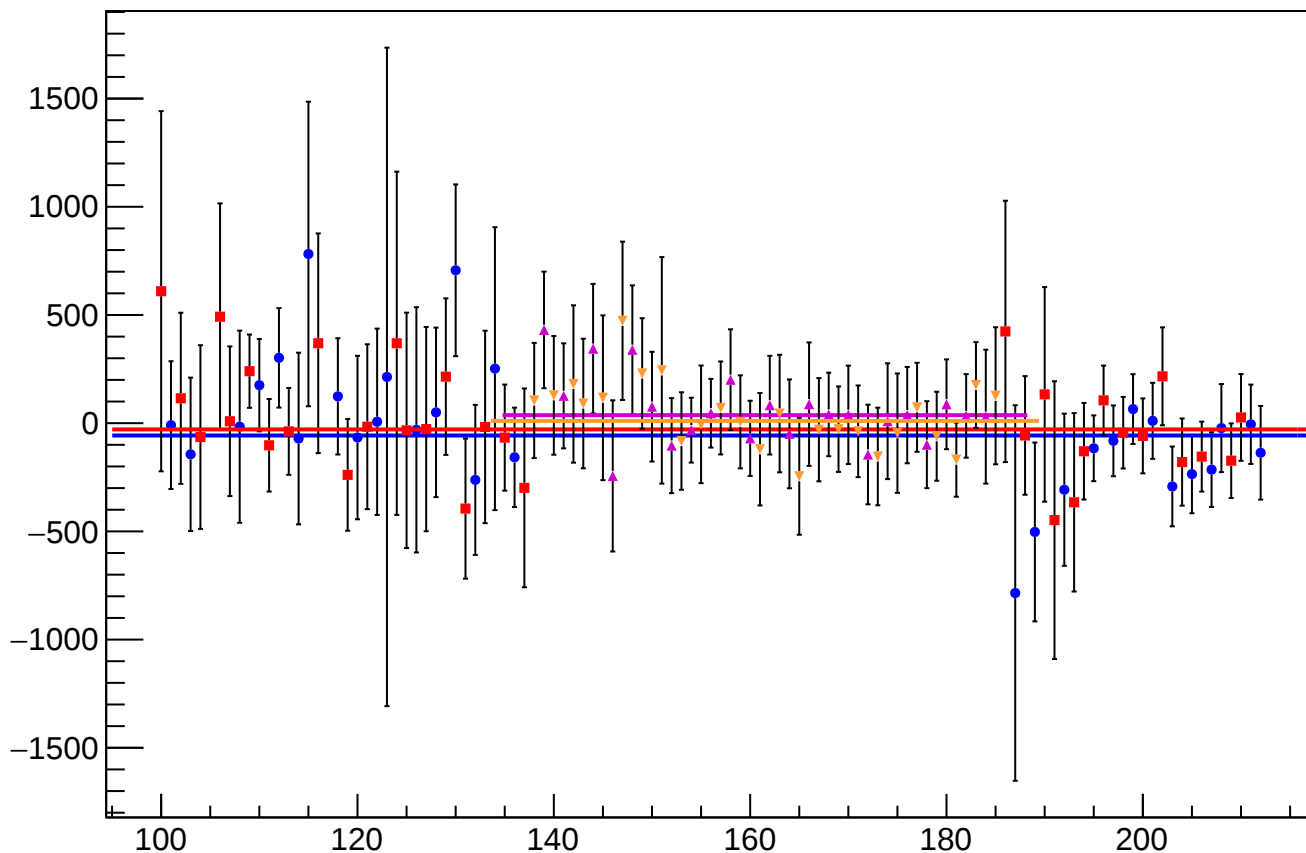
Right: 169.859 ± 0.022 χ^2/NDF : 4892688.2/62

In: 174.520 ± 0.022 χ^2/NDF : 3763858.0/52

Out: 182.458 ± 0.023 χ^2/NDF : 4943657.0/57

All: 178.381 ± 0.016 χ^2/NDF : 8769005.9/110

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -56.937 ± 45.565 $\chi^2/\text{NDF}: 17.1/29$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -28.895 ± 45.453 $\chi^2/\text{NDF}: 13.8/32$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

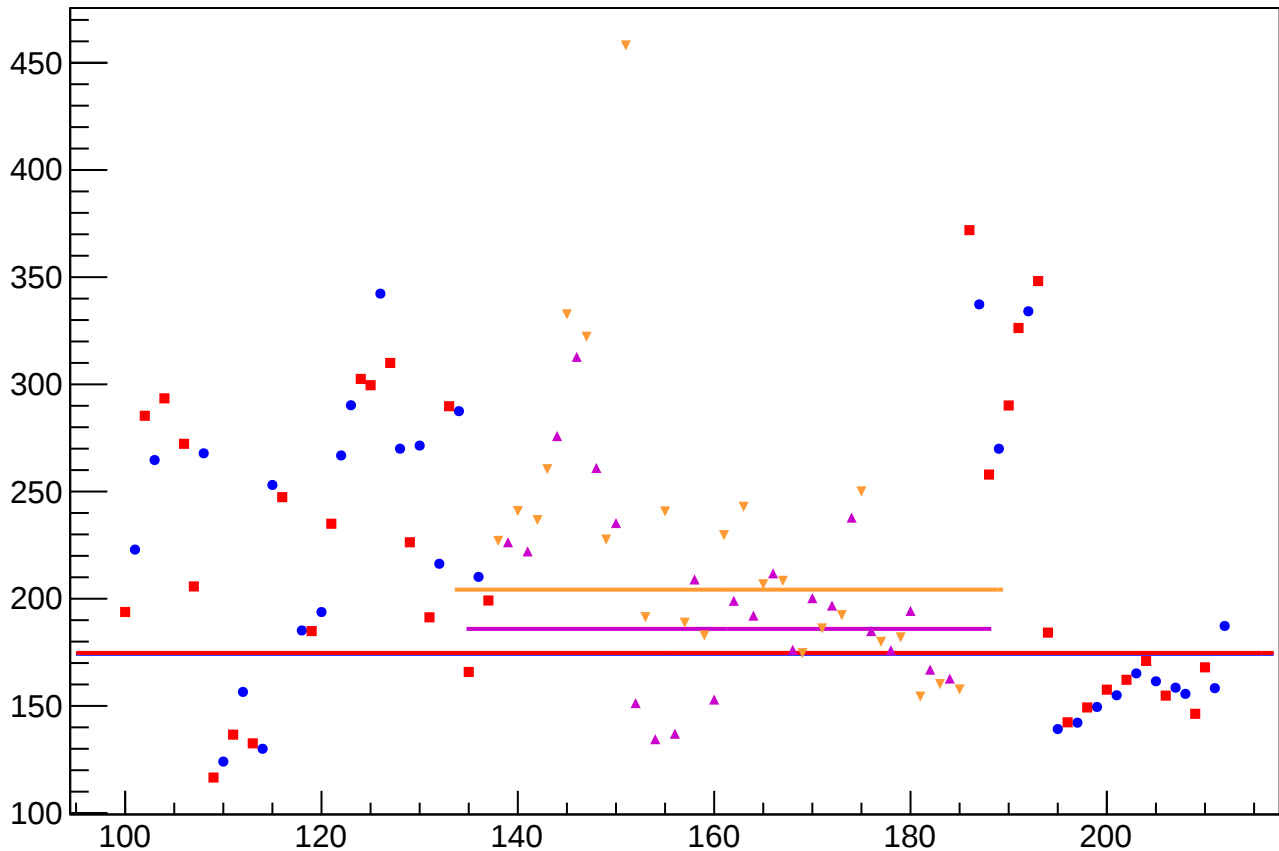
Right: -42.881 ± 32.180 $\chi^2/\text{NDF}: 31.2/62$

In: -10.778 ± 32.496 $\chi^2/\text{NDF}: 27.1/52$

Out: -10.737 ± 33.385 $\chi^2/\text{NDF}: 21.7/57$

All: -10.758 ± 23.286 $\chi^2/\text{NDF}: 48.8/110$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 174.330 $\pm$ 0.032 χ^2 /NDF: 2029109.8/29

Left Out: 204.236 $\pm$ 0.035 χ^2 /NDF:1675666.0/24

Right Out: 174.727 $\pm$ 0.032 χ^2 /NDF: 2608482.4/32

Left In: 185.931 $\pm$ 0.033 χ^2 /NDF:1460065.0/22

Left: 194.540 $\pm$ 0.024 χ^2 /NDF: 3282383.3/47

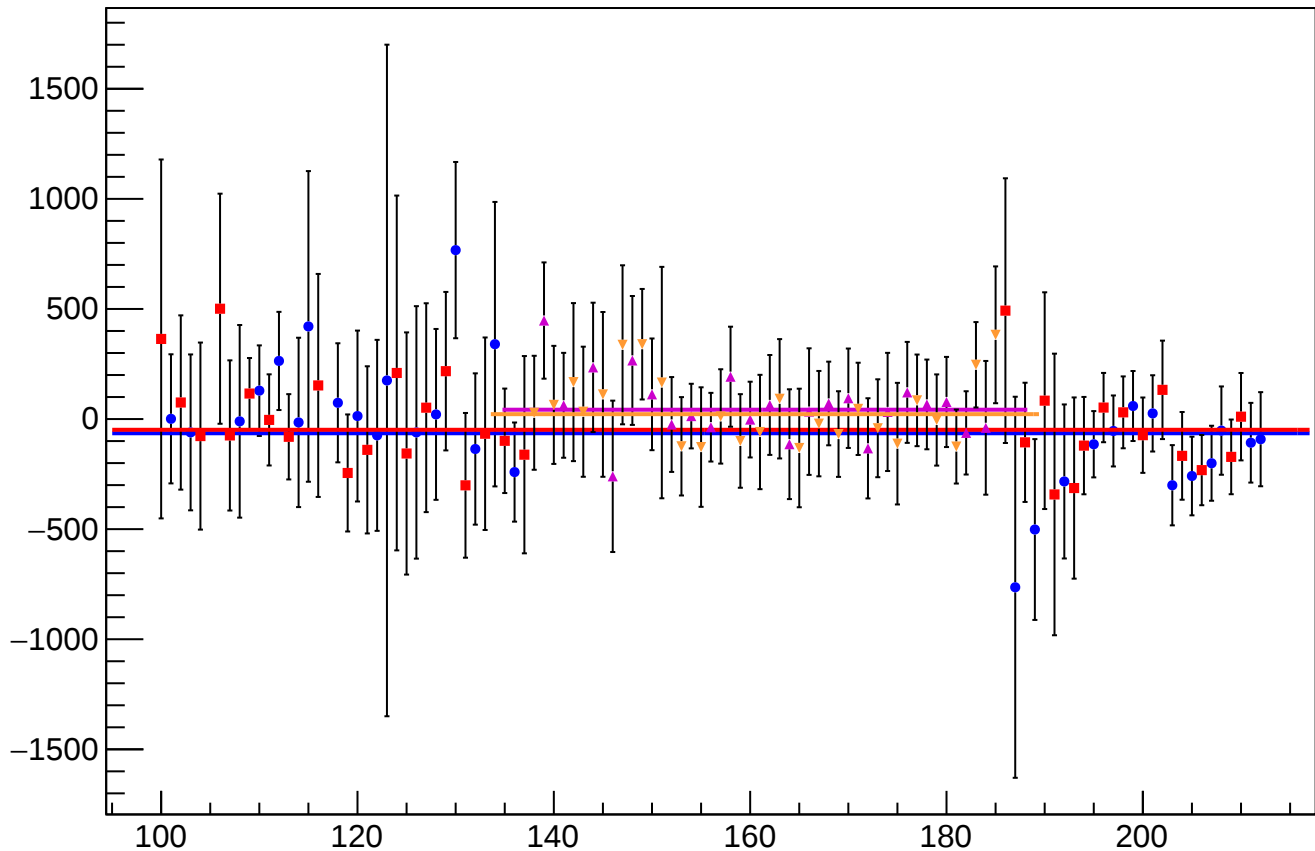
Right: 174.529 $\pm$ 0.023 χ^2 /NDF: 4637668.6/62

In: 180.031 $\pm$ 0.023 χ^2 /NDF:3552887.8/52

Out: 188.316 $\pm$ 0.024 χ^2 /NDF:4672329.9/57

All: 184.062 $\pm$ 0.016 χ^2 /NDF: 8288476.6/110

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -64.550 ± 44.986 $\chi^2/\text{NDF}: 16.1/29$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -48.754 ± 44.743 $\chi^2/\text{NDF}: 10.1/32$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

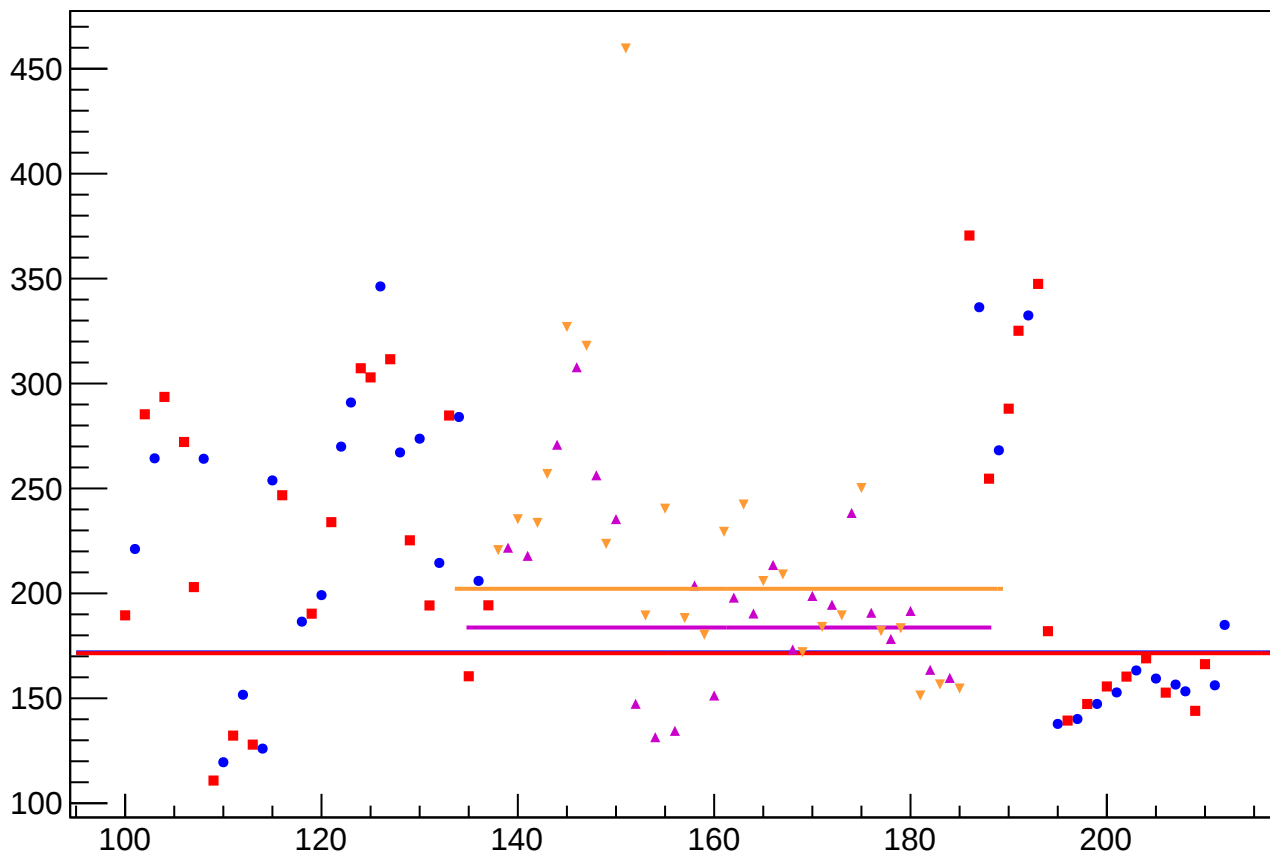
Right: -56.610 ± 31.724 $\chi^2/\text{NDF}: 26.2/62$

In: -12.083 ± 32.114 $\chi^2/\text{NDF}: 25.6/52$

Out: -16.309 ± 32.960 $\chi^2/\text{NDF}: 19.6/57$

All: -14.141 ± 23.002 $\chi^2/\text{NDF}: 45.2/110$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 171.871 $\pm$ 0.032 χ^2 /NDF: 2111155.0/29

Left Out: 202.186 $\pm$ 0.034 χ^2 /NDF:1696571.9/24

Right Out: 171.483 $\pm$ 0.032 χ^2 /NDF: 2768199.4/32

Left In: 183.732 $\pm$ 0.032 χ^2 /NDF:1495930.4/22

Left: 192.398 $\pm$ 0.024 χ^2 /NDF: 3344580.1/47

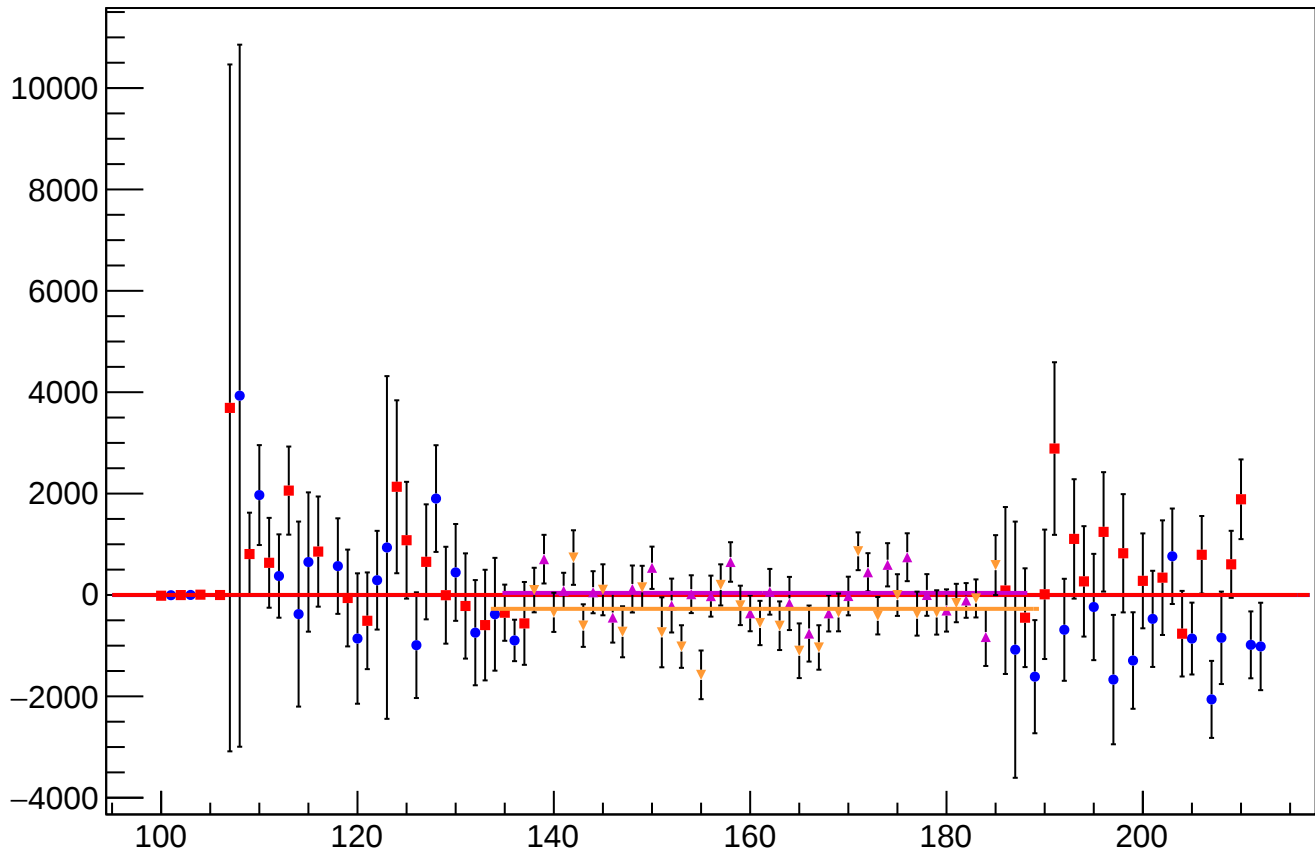
Right: 171.676 $\pm$ 0.022 χ^2 /NDF: 4879429.1/62

In: 177.688 $\pm$ 0.023 χ^2 /NDF:3675262.3/52

Out: 185.525 $\pm$ 0.023 χ^2 /NDF:4895462.5/57

All: 181.504 $\pm$ 0.016 χ^2 /NDF: 8628738.0/110

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.601 ± 2.251 χ^2/NDF : 37.4/29

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.768 ± 2.111 χ^2/NDF : 32.5/32

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

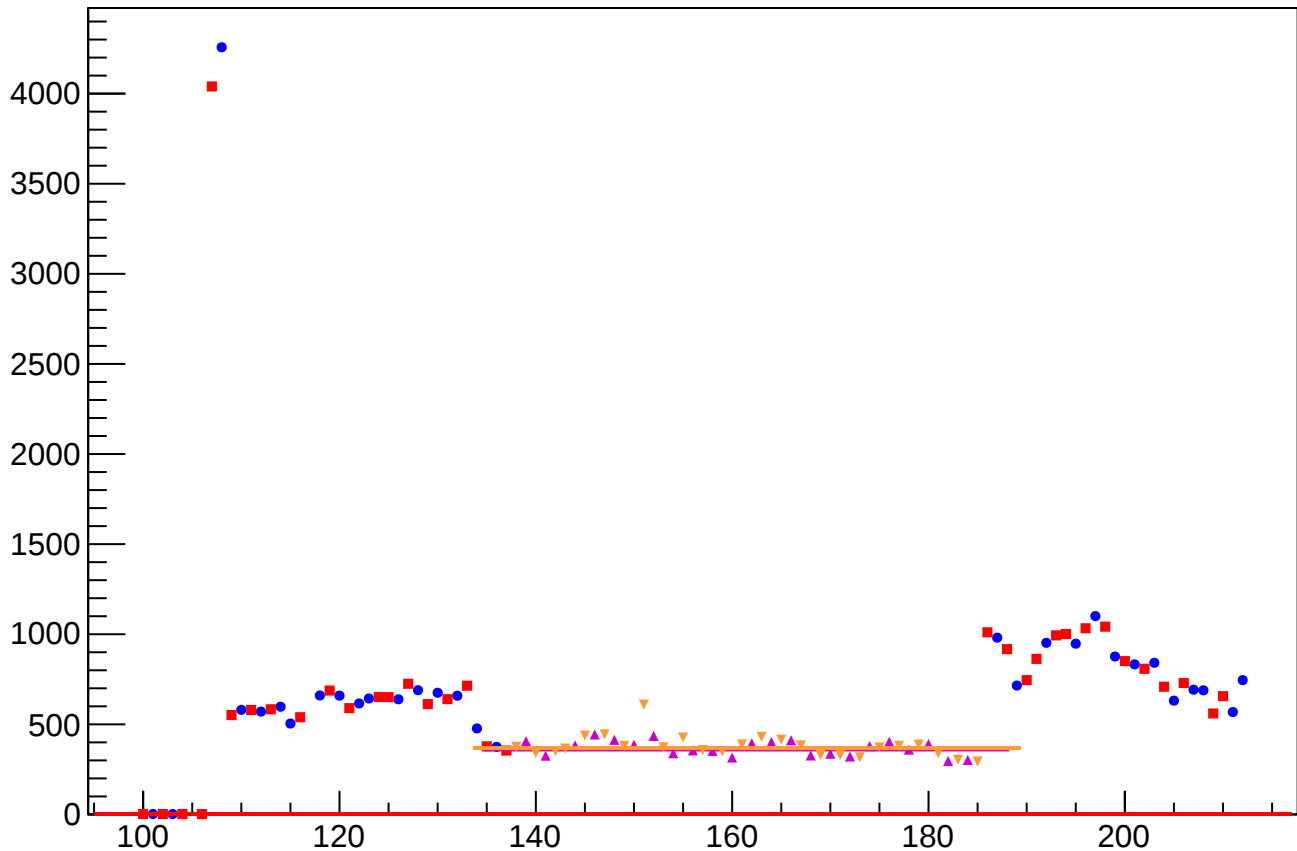
Right: -0.340 ± 1.540 χ^2/NDF : 70.5/62

In: -1.574 ± 2.251 χ^2/NDF : 57.8/52

Out: 0.606 ± 2.110 χ^2/NDF : 80.8/57

All: -0.414 ± 1.539 χ^2/NDF : 139.1/110

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.515 $\pm$ 0.002 χ^2 /NDF: 28788699.9/29

Left Out: 368.500 $\pm$ 0.061 χ^2 /NDF: 623011.6/24

Right Out: 2.487 $\pm$ 0.001 χ^2 /NDF: 29687900.1/32

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

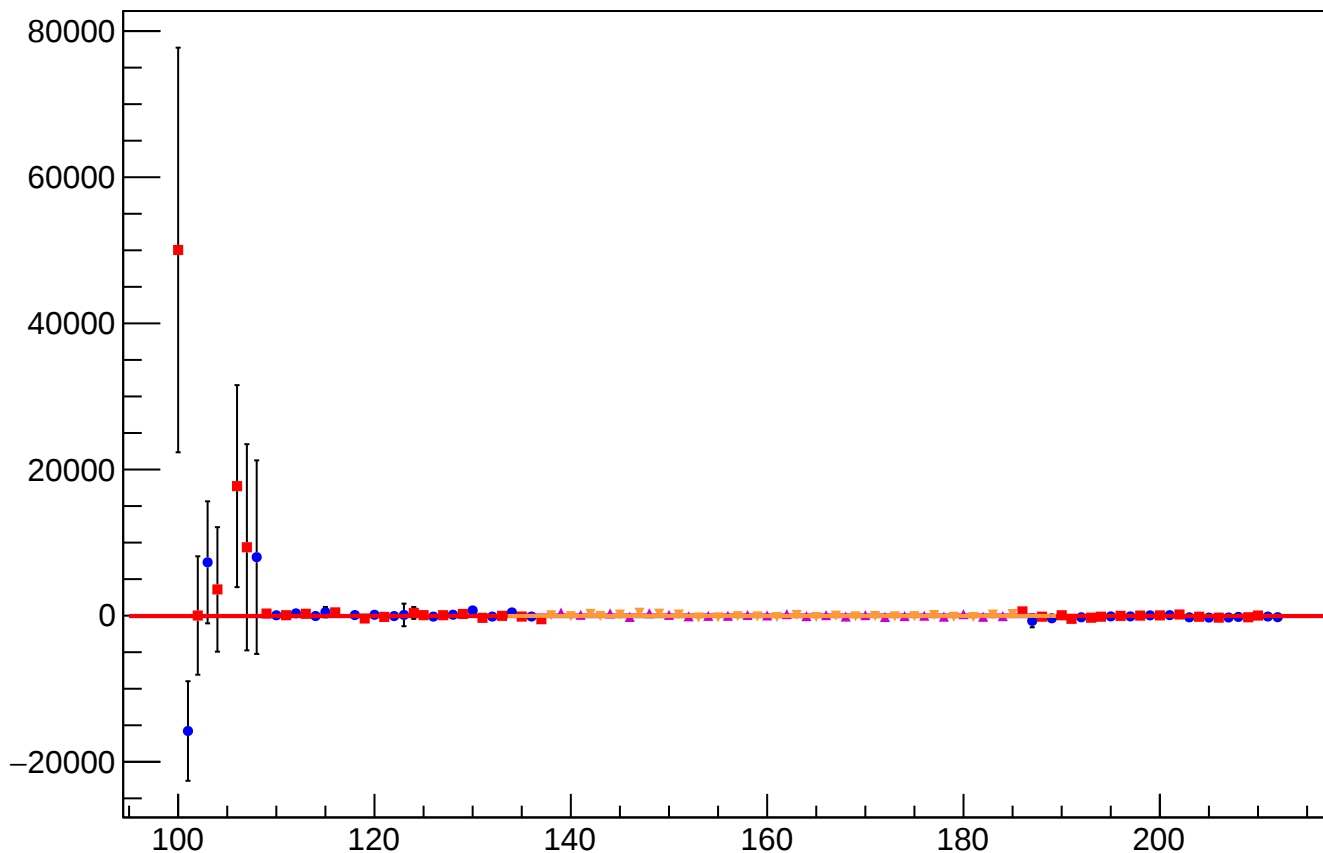
Right: 2.500 $\pm$ 0.001 χ^2 /NDF: 58476761.6/62

In: 2.752 $\pm$ 0.002 χ^2 /NDF: 62701700.0/52

Out: 2.703 $\pm$ 0.001 χ^2 /NDF: 65795058.8/57

All: 2.726 $\pm$ 0.001 χ^2 /NDF: 128497258.3/110

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -67.634+/-49.048 χ^2 /NDF: 20.9/29

Left Out: -39.036+/-49.576 χ^2 /NDF:9.1/24

Right Out: -37.467+/-49.568 χ^2 /NDF: 21.2/32

Left In: 28.062+/-48.032 χ^2 /NDF:9.6/22

Left: -4.426+/-34.497 χ^2 /NDF: 19.7/47

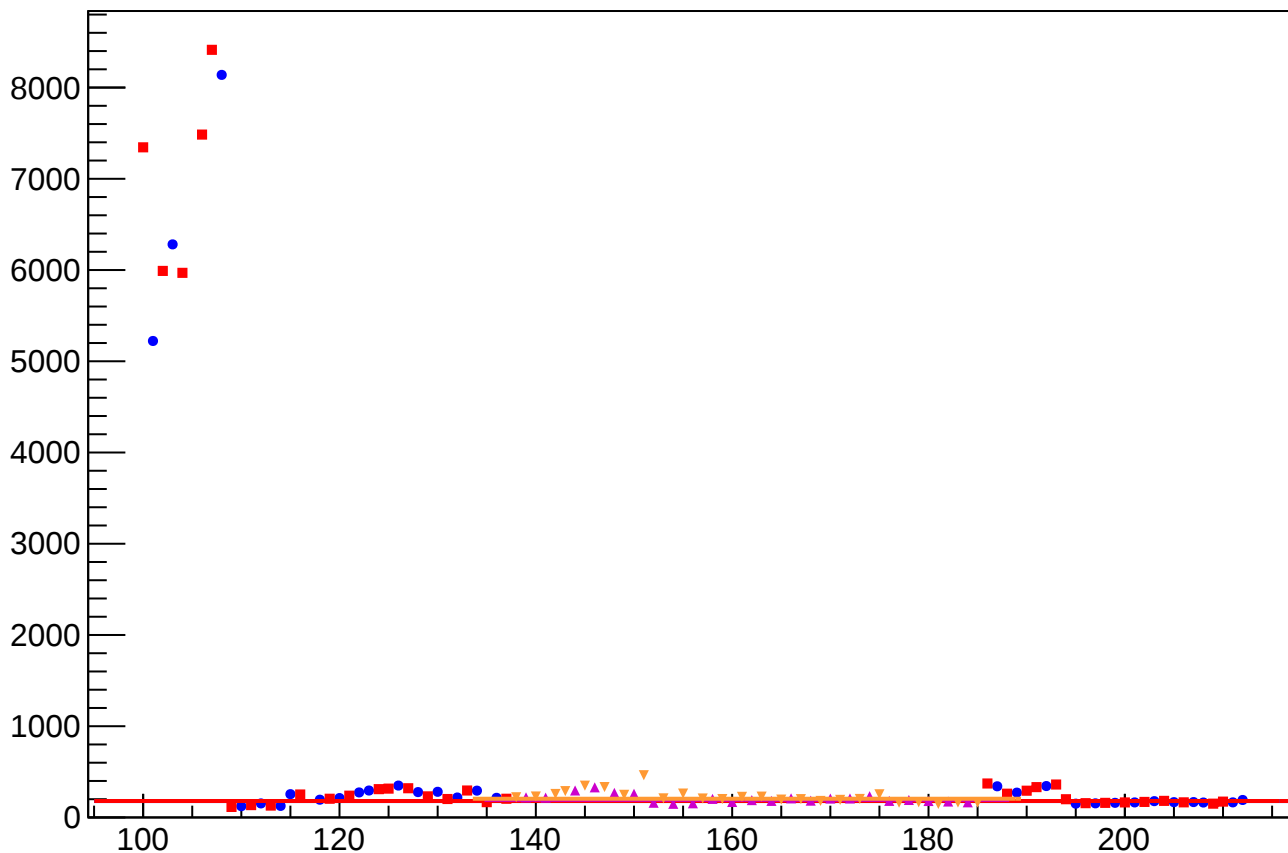
Right: -52.710+/-34.865 χ^2 /NDF: 42.3/62

In: -18.785+/-34.317 χ^2 /NDF:32.4/52

Out: -38.251+/-35.053 χ^2 /NDF:30.3/57

All: -28.312+/-24.522 χ^2 /NDF: 62.9/110

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 179.737 $\pm$ 0.035 χ^2/NDF : 4535186.8/29

Left Out: 205.114 $\pm$ 0.035 χ^2/NDF : 1957484.4/24

Right Out: 180.393 $\pm$ 0.035 χ^2/NDF : 5417163.0/32

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

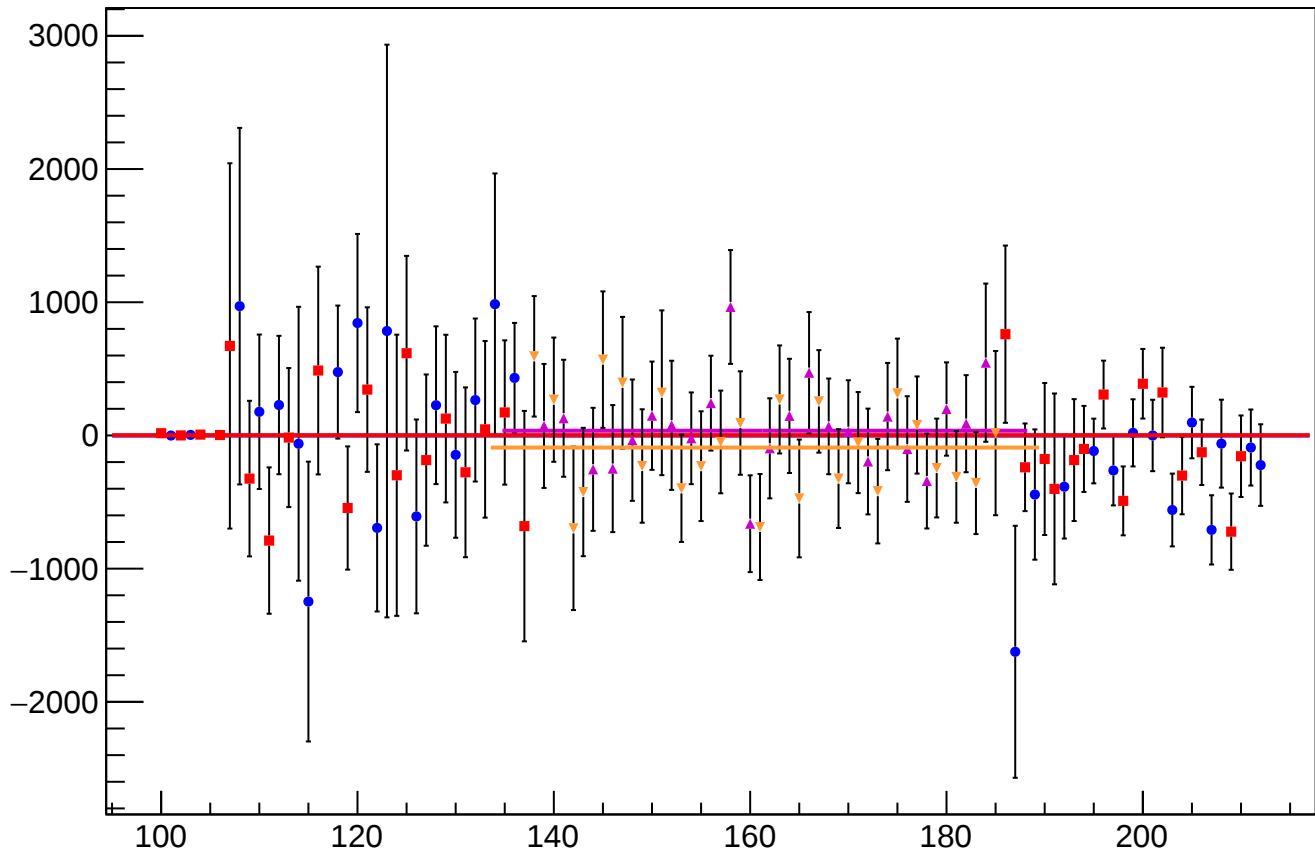
Right: 180.061 $\pm$ 0.025 χ^2/NDF : 9952527.1/62

In: 186.822 $\pm$ 0.024 χ^2/NDF : 5796410.1/52

Out: 192.752 $\pm$ 0.025 χ^2/NDF : 7623327.9/57

All: 189.724 $\pm$ 0.017 χ^2/NDF : 13448963.6/117

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.238 $\pm$ 1.736 χ^2/NDF : 28.5/29

Left Out: -90.945 $\pm$ 84.079 χ^2/NDF :16.4/24

Right Out: 1.286 $\pm$ 1.622 χ^2/NDF : 28.0/32

Left In: 35.488 $\pm$ 84.382 χ^2/NDF :13.4/22

Left: -27.956 $\pm$ 59.560 χ^2/NDF : 31.0/47

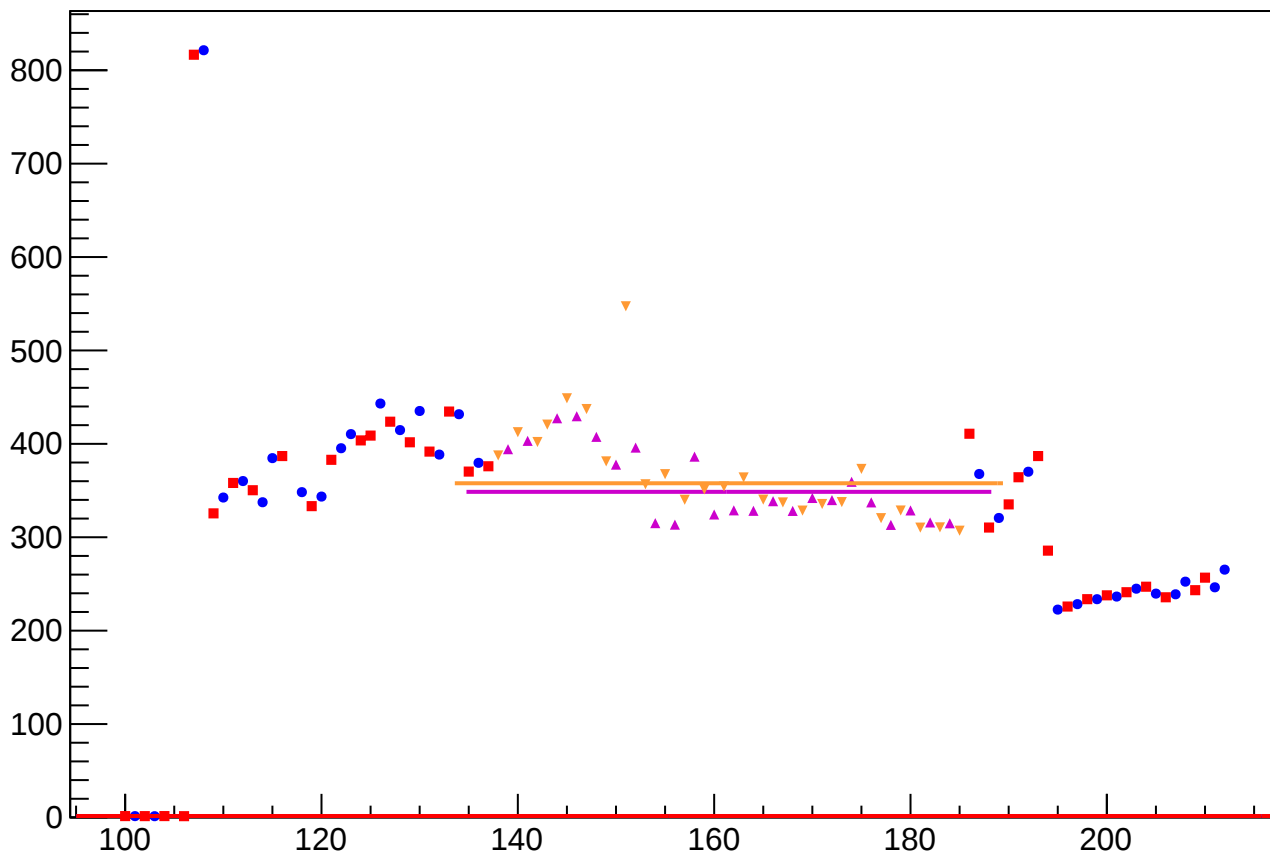
Right: 0.575 $\pm$ 1.185 χ^2/NDF : 56.9/62

In: -0.223 $\pm$ 1.736 χ^2/NDF :42.1/52

Out: 1.251 $\pm$ 1.622 χ^2/NDF :45.6/57

All: 0.564 $\pm$ 1.185 χ^2/NDF : 88.1/110

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.562 $\pm$ 0.001 χ^2 /NDF: 29048244.0/29

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF: 547036.5/24

Right Out: 1.543 $\pm$ 0.001 χ^2 /NDF: 29392602.9/32

Left In: 348.611 $\pm$ 0.060 χ^2 /NDF: 362511.2/22

Left: 353.224 $\pm$ 0.042 χ^2 /NDF: 921460.0/47

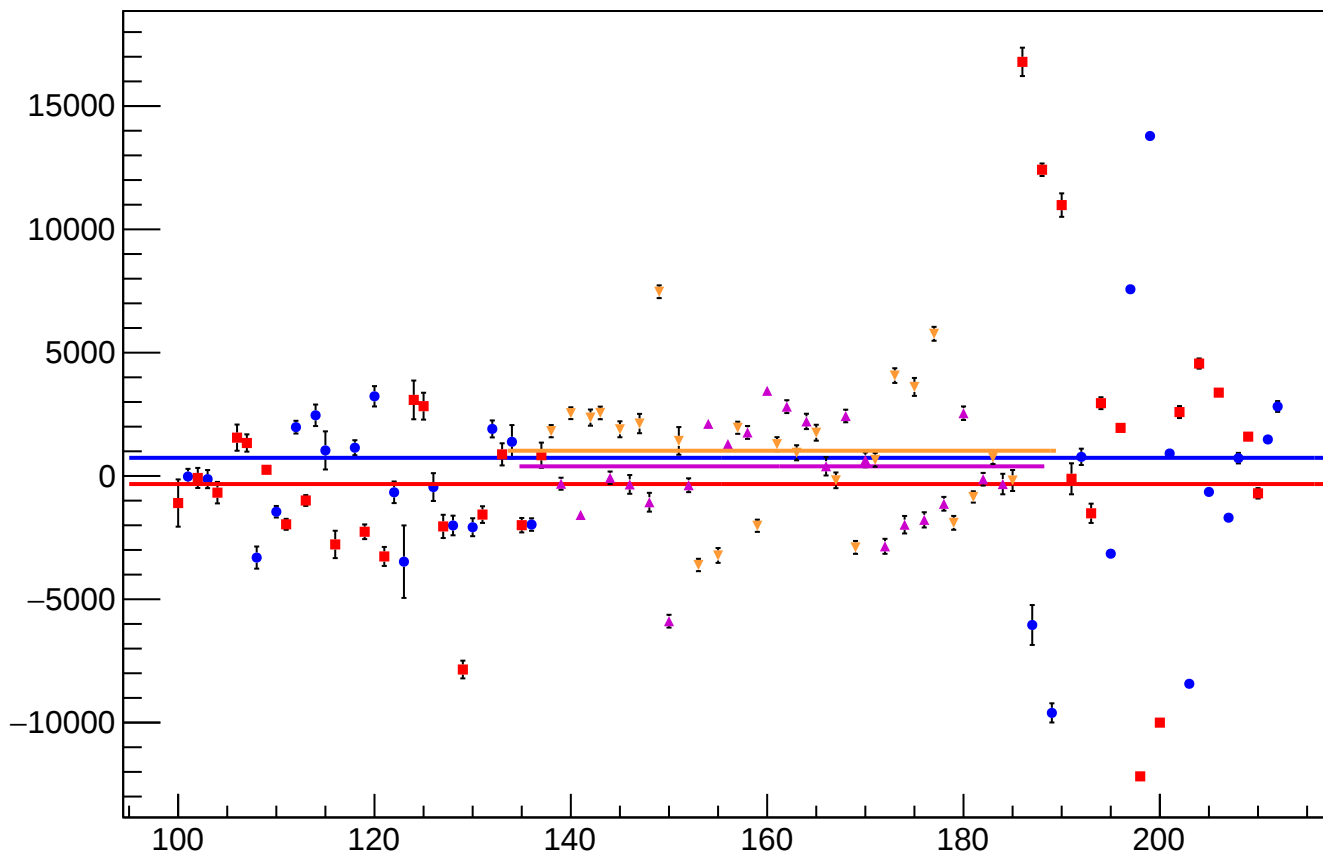
Right: 1.552 $\pm$ 0.001 χ^2 /NDF: 58440967.4/62

In: 1.708 $\pm$ 0.001 χ^2 /NDF: 63227016.7/52

Out: 1.676 $\pm$ 0.001 χ^2 /NDF: 65834677.3/57

All: 1.691 $\pm$ 0.001 χ^2 /NDF: 129062073.4/110

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 735.759+/-48.775 χ^2/NDF : 11123.1/29

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: -327.673+/-48.335 χ^2/NDF : 13327.6/32

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

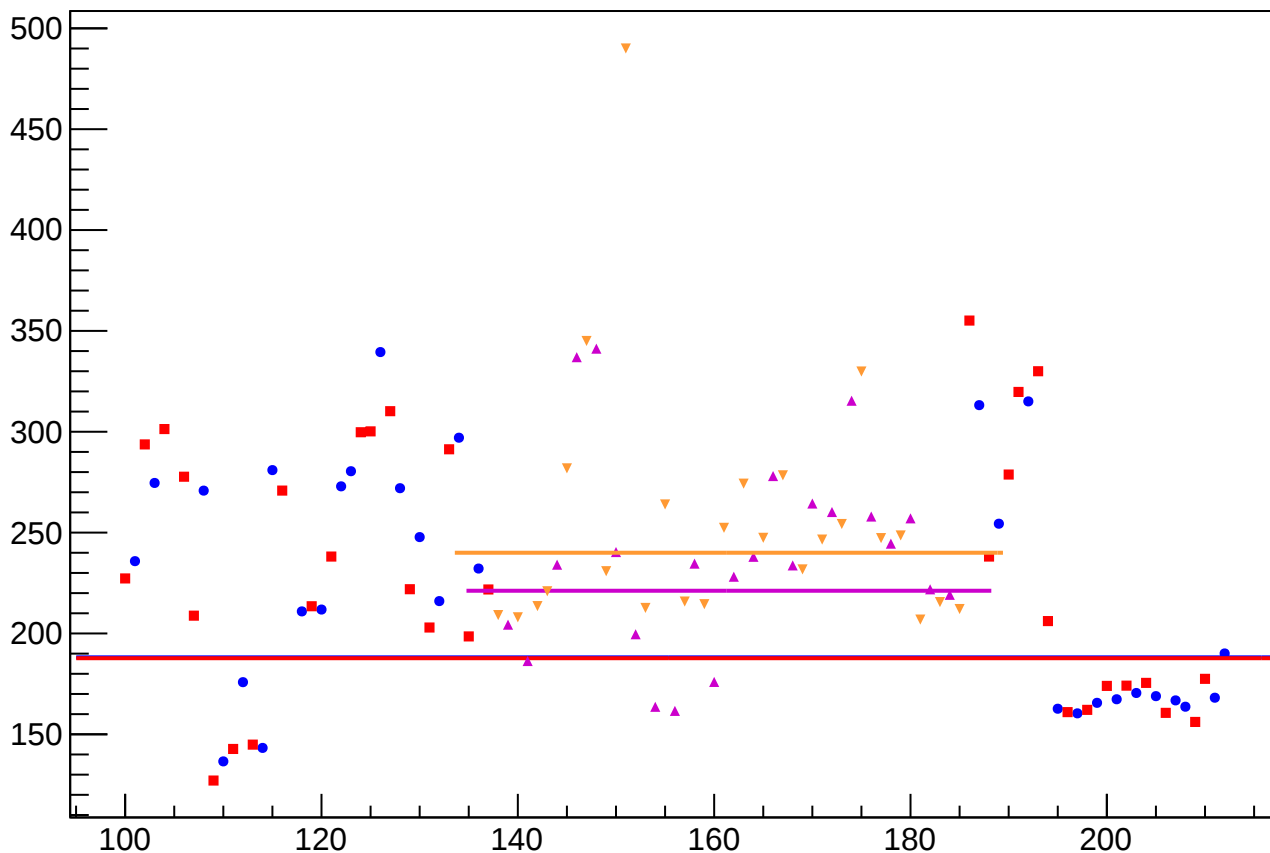
Right: 199.218+/-34.333 χ^2/NDF : 24690.5/62

In: 583.436+/-36.472 χ^2/NDF : 12730.1/52

Out: 233.600+/-36.956 χ^2/NDF : 15961.5/57

All: 410.821+/-25.959 χ^2/NDF : 28737.0/110

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 188.153 ± 0.034 $\chi^2/\text{NDF}: 1542576.2/29$

Left Out: 240.019 ± 0.041 $\chi^2/\text{NDF}: 1002427.9/24$

Right Out: 187.727 ± 0.034 $\chi^2/\text{NDF}: 2121388.5/32$

Left In: 221.173 ± 0.039 $\chi^2/\text{NDF}: 1342517.8/22$

Left: 230.192 ± 0.028 $\chi^2/\text{NDF}: 2457612.6/47$

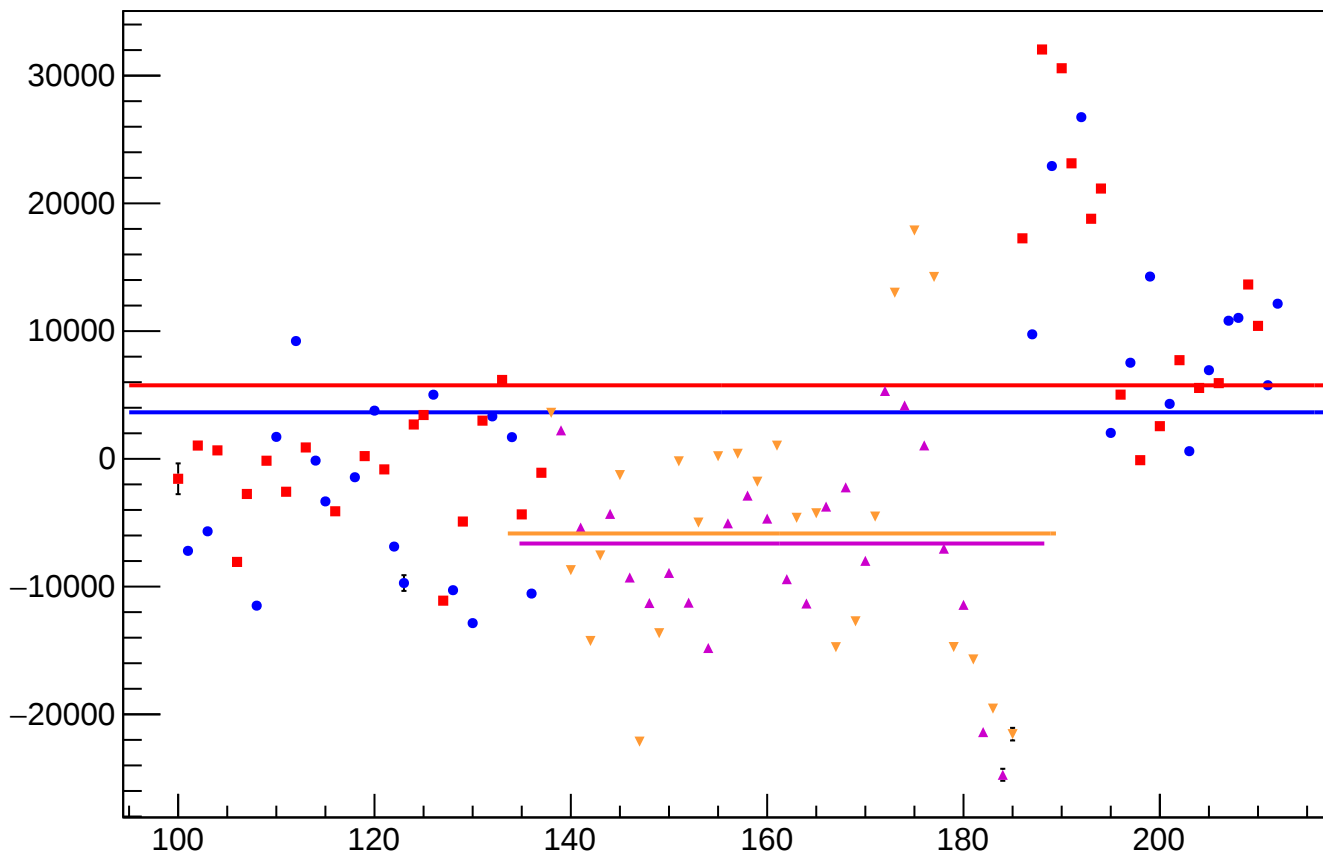
Right: 187.938 ± 0.024 $\chi^2/\text{NDF}: 3664041.5/62$

In: 202.710 ± 0.026 $\chi^2/\text{NDF}: 3289173.1/52$

Out: 209.450 ± 0.026 $\chi^2/\text{NDF}: 4096245.6/57$

All: 206.036 ± 0.018 $\chi^2/\text{NDF}: 7419122.9/110$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3643.151+/-34.719

χ^2/NDF : 83631.4/29

Left Out: -5841.615+/-35.848

χ^2/NDF : 63397.3/24

Right Out: 5756.293+/-33.297

χ^2/NDF : 104042.2/32

Left In: -6628.388+/-37.160

χ^2/NDF : 21738.0/22

Left: -6220.862+/-25.800

χ^2/NDF : 85367.5/47

Right: 4743.892+/-24.031

χ^2/NDF : 189603.3/62

In: -1144.157+/-25.369

χ^2/NDF : 146163.5/52

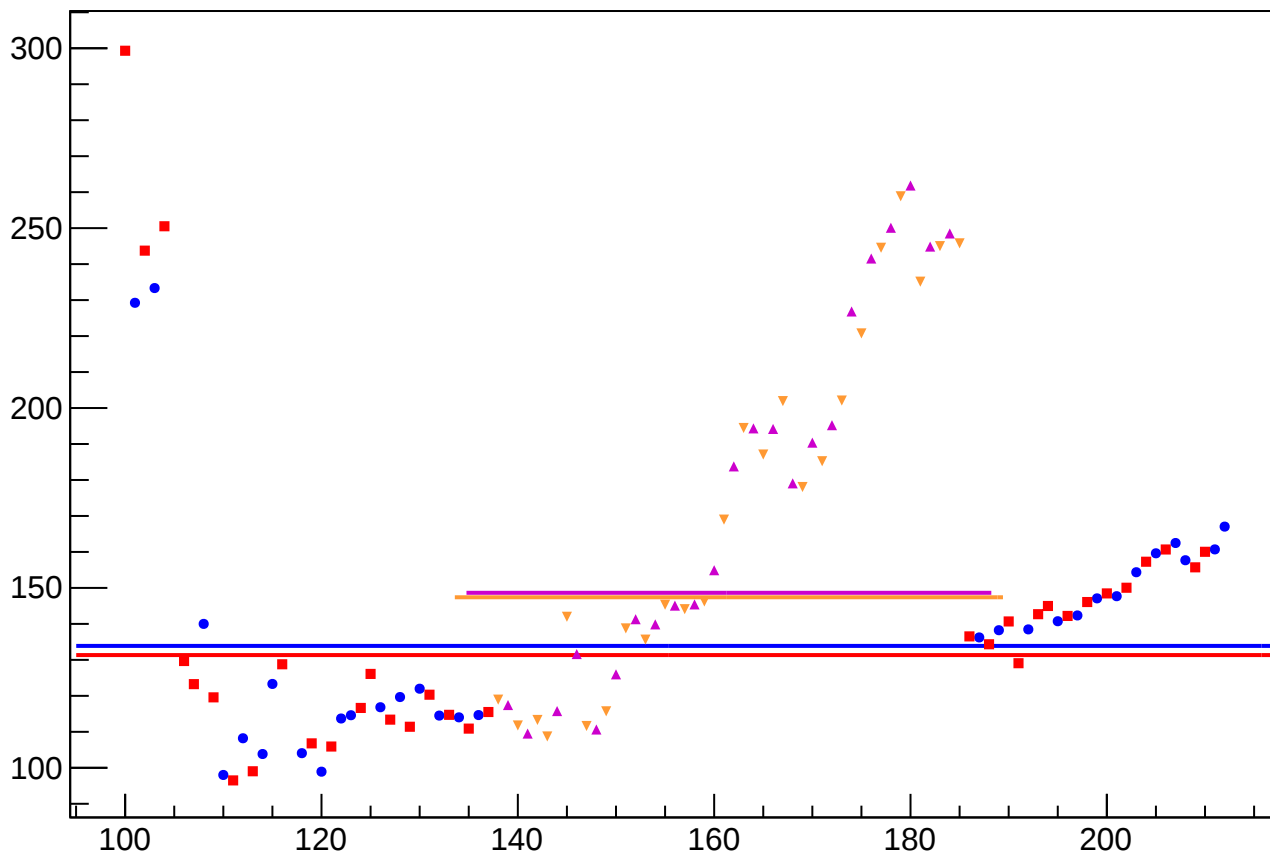
Out: 384.673+/-24.396

χ^2/NDF : 223633.1/57

All: -349.868+/-17.585

χ^2/NDF : 371683.4/11

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 133.883+/-0.025 χ^2/NDF : 1131053.8/29

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 131.334+/-0.024 χ^2/NDF : 1156458.6/32

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

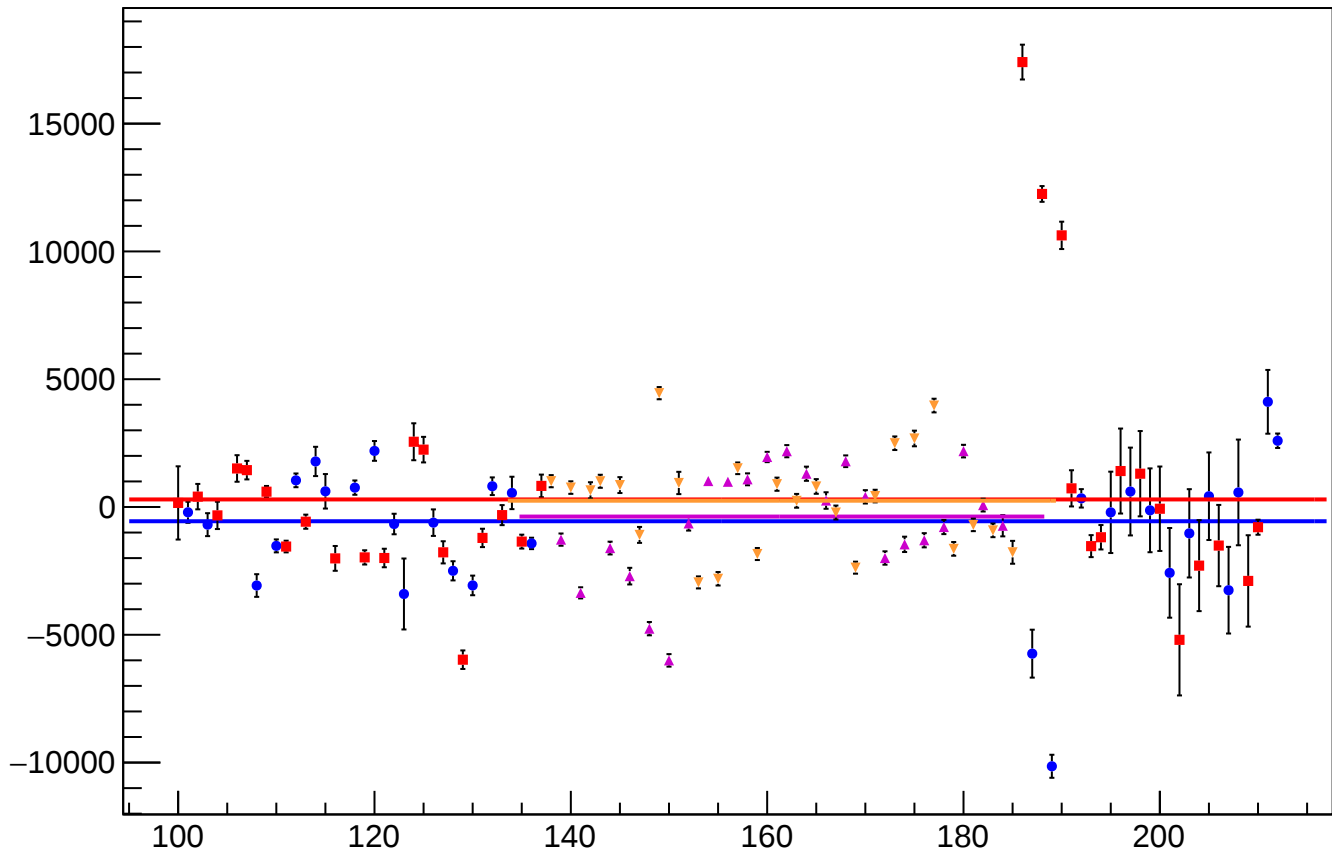
Right: 132.555+/-0.017 χ^2/NDF : 2293130.8/62

In: 140.762+/-0.018 χ^2/NDF : 3715029.5/52

Out: 138.773+/-0.017 χ^2/NDF : 3889122.9/57

All: 139.729+/-0.012 χ^2/NDF : 7610539.0/110

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -557.454+/-80.399 χ^2/NDF : 915.1/29

Left Out: 246.120+/-53.492 χ^2/NDF :1354.8/24

Right Out: 295.696+/-72.629 χ^2/NDF : 3188.9/32

Left In: -374.465+/-51.892 χ^2/NDF :1798.3/22

Left: -73.589+/-37.246 χ^2/NDF : 3222.4/47

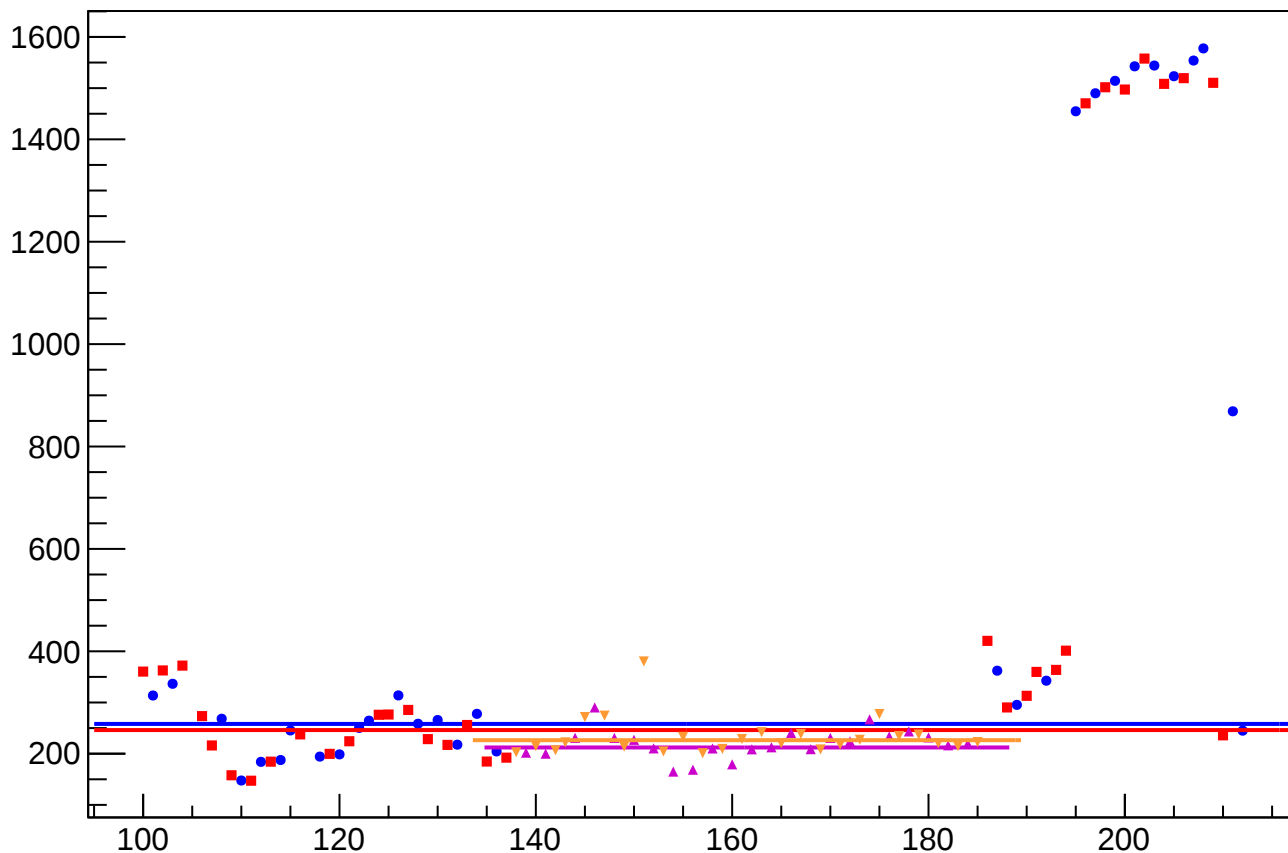
Right: -87.671+/-53.895 χ^2/NDF : 4166.1/62

In: -428.278+/-43.600 χ^2/NDF :2717.1/52

Out: 263.554+/-43.071 χ^2/NDF :4544.1/57

All: -78.141+/-30.641 χ^2/NDF : 7388.5/110

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 258.146 $\pm$ 0.057 χ^2 /NDF: 10196524.2/29

Left Out: 226.376 $\pm$ 0.038 χ^2 /NDF: 521770.1/24

Right Out: 246.141 $\pm$ 0.051 χ^2 /NDF: 9272345.6/32

Left In: 212.145 $\pm$ 0.037 χ^2 /NDF: 591698.6/22

Left: 219.044 $\pm$ 0.026 χ^2 /NDF: 1186390.8/47

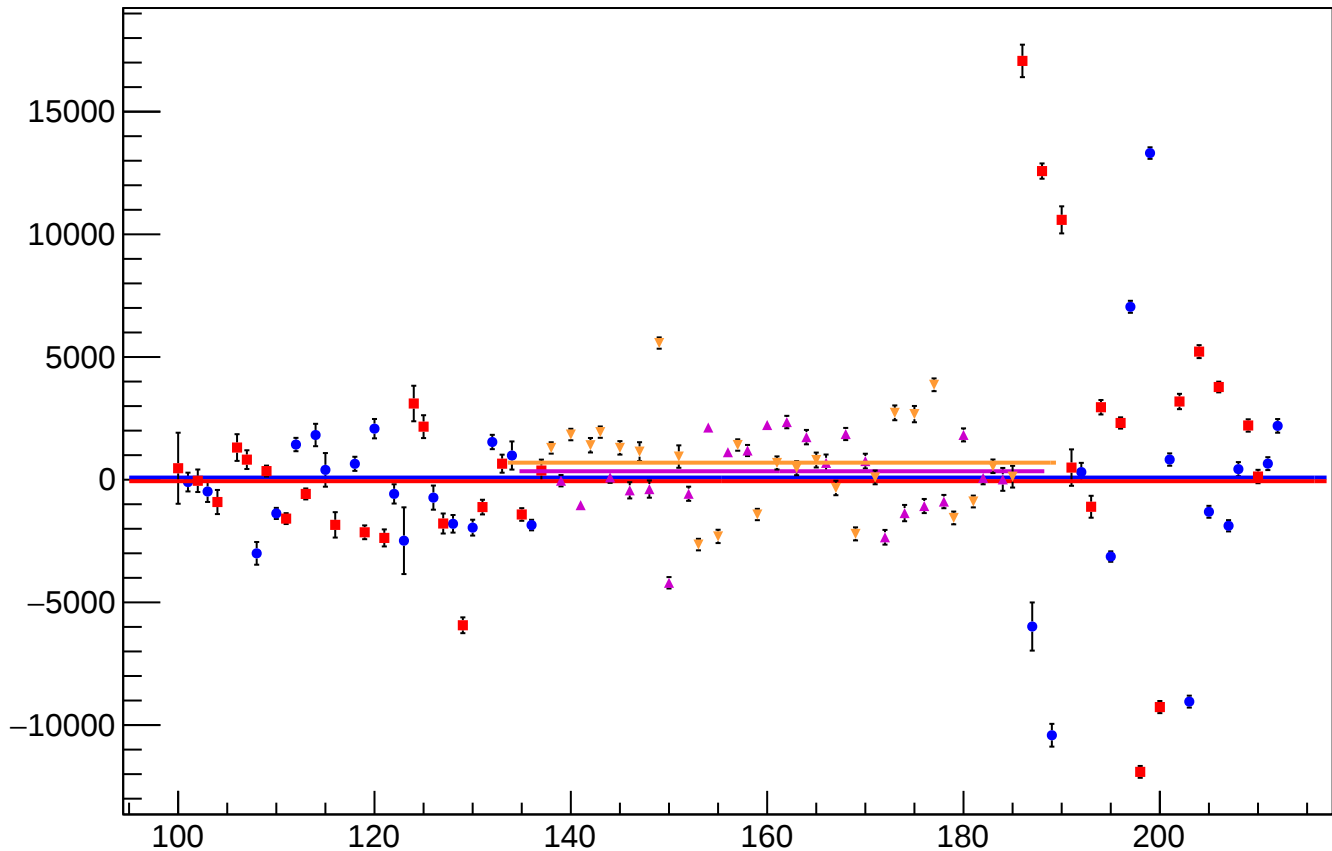
Right: 251.536 $\pm$ 0.038 χ^2 /NDF: 19493424.3/62

In: 225.673 $\pm$ 0.031 χ^2 /NDF: 11250413.4/52

Out: 233.327 $\pm$ 0.030 χ^2 /NDF: 9890146.8/57

All: 229.546 $\pm$ 0.022 χ^2 /NDF: 21171753.3/111

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 87.013 ± 56.103 $\chi^2/\text{NDF}: 6671.9/29$

Left Out: 694.326 ± 54.246 $\chi^2/\text{NDF}: 1422.1/24$

Right Out: -60.953 ± 55.300 $\chi^2/\text{NDF}: 8215.1/32$

Left In: 344.578 ± 52.954 $\chi^2/\text{NDF}: 985.0/22$

Left: 515.236 ± 37.893 $\chi^2/\text{NDF}: 2428.4/47$

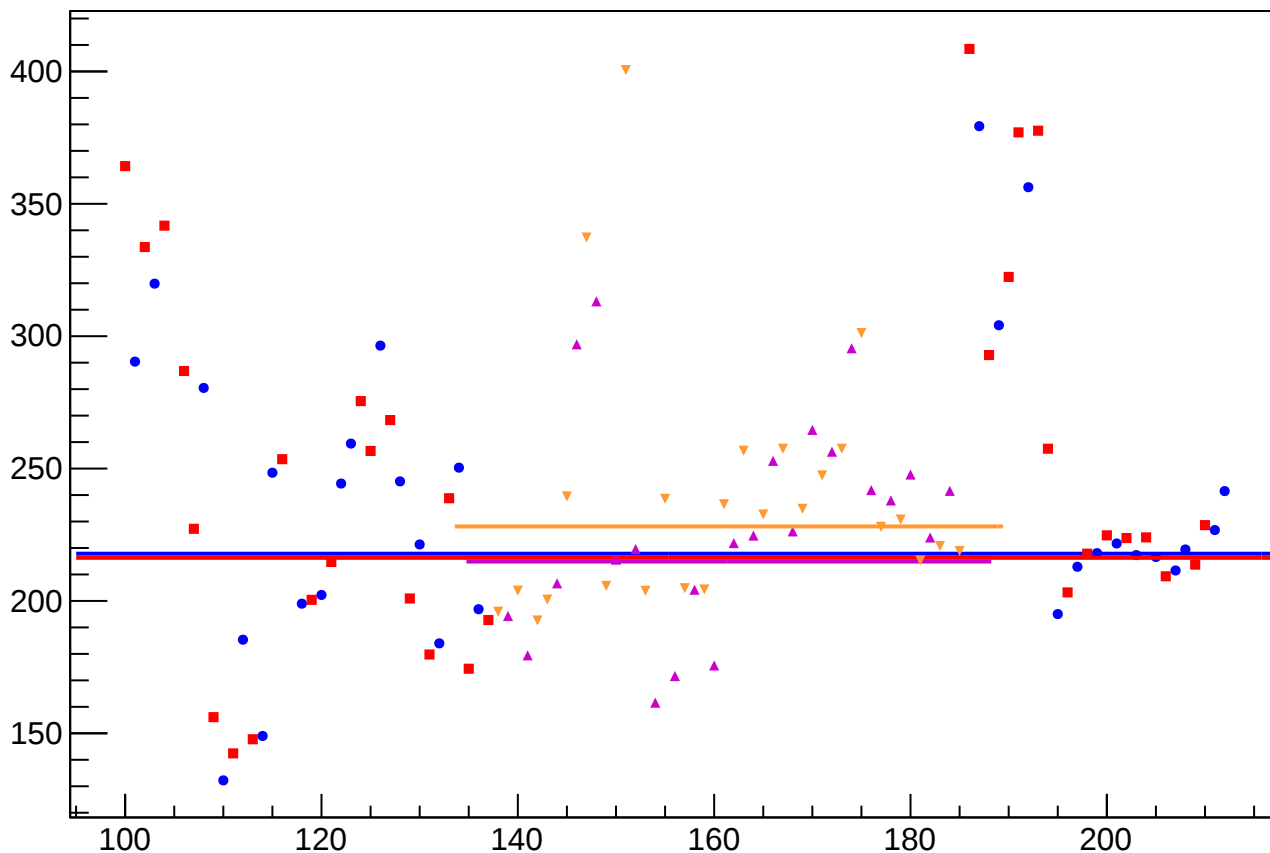
Right: 11.964 ± 39.384 $\chi^2/\text{NDF}: 14890.5/62$

In: 223.227 ± 38.509 $\chi^2/\text{NDF}: 7668.0/52$

Out: 323.953 ± 38.725 $\chi^2/\text{NDF}: 9732.3/57$

All: 273.309 ± 27.306 $\chi^2/\text{NDF}: 17403.7/110$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 217.842 ± 0.040 $\chi^2/\text{NDF}: 1162931.2/29$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 216.288 ± 0.039 $\chi^2/\text{NDF}: 1825920.8/32$

Left In: 214.878 ± 0.037 $\chi^2/\text{NDF}: 1037509.6/22$

Left: 221.351 ± 0.027 $\chi^2/\text{NDF}: 1927151.4/47$

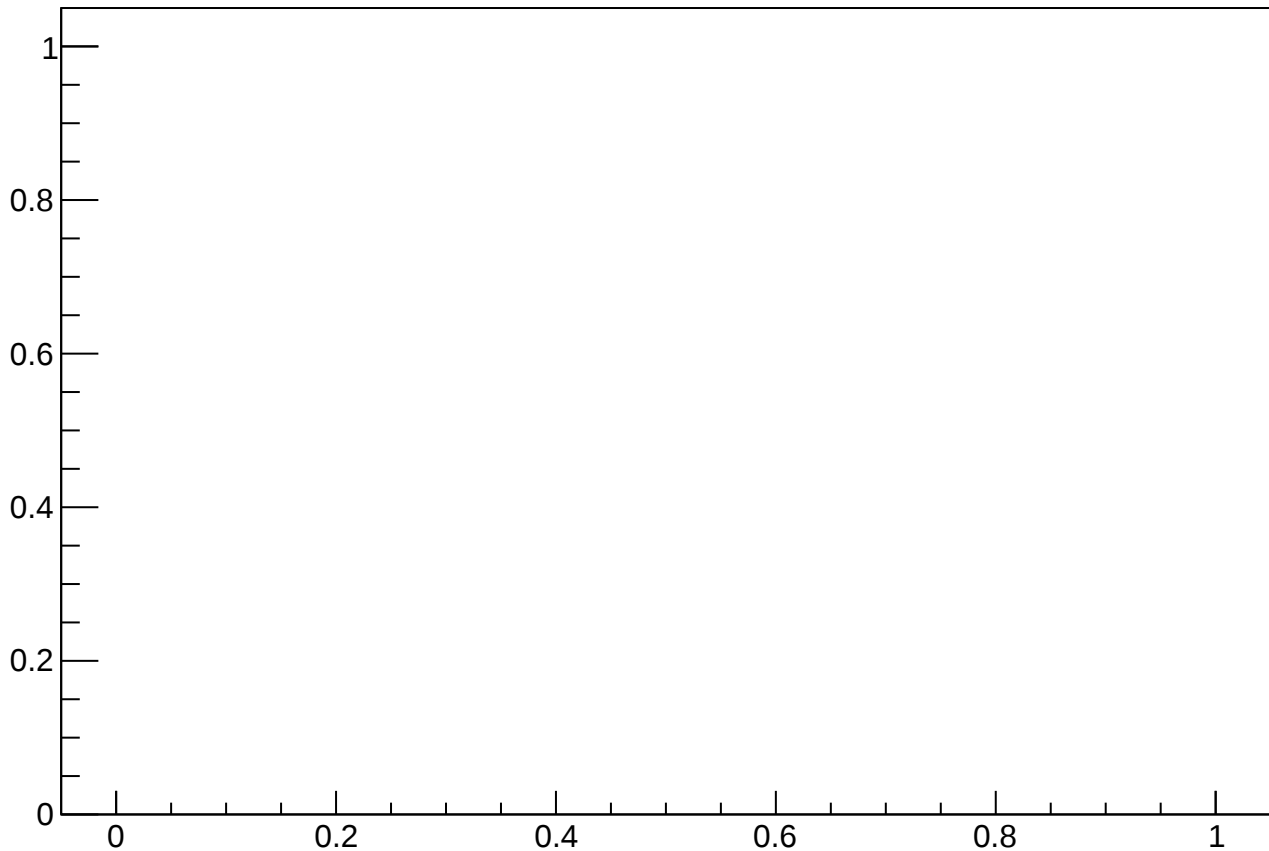
Right: 217.054 ± 0.028 $\chi^2/\text{NDF}: 2989630.5/62$

In: 216.274 ± 0.027 $\chi^2/\text{NDF}: 2203392.2/52$

Out: 222.330 ± 0.027 $\chi^2/\text{NDF}: 2701169.3/57$

All: 219.285 ± 0.019 $\chi^2/\text{NDF}: 4929148.2/110$

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

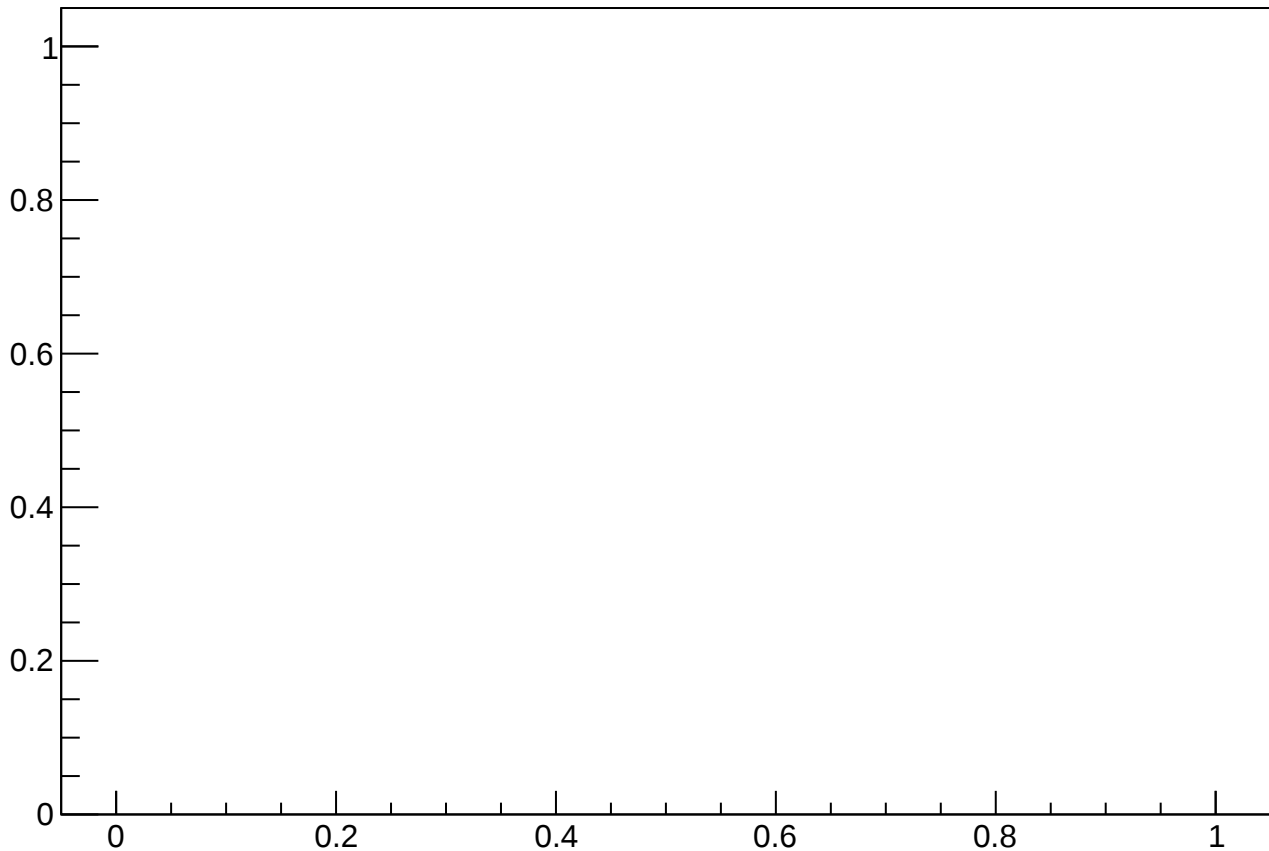
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

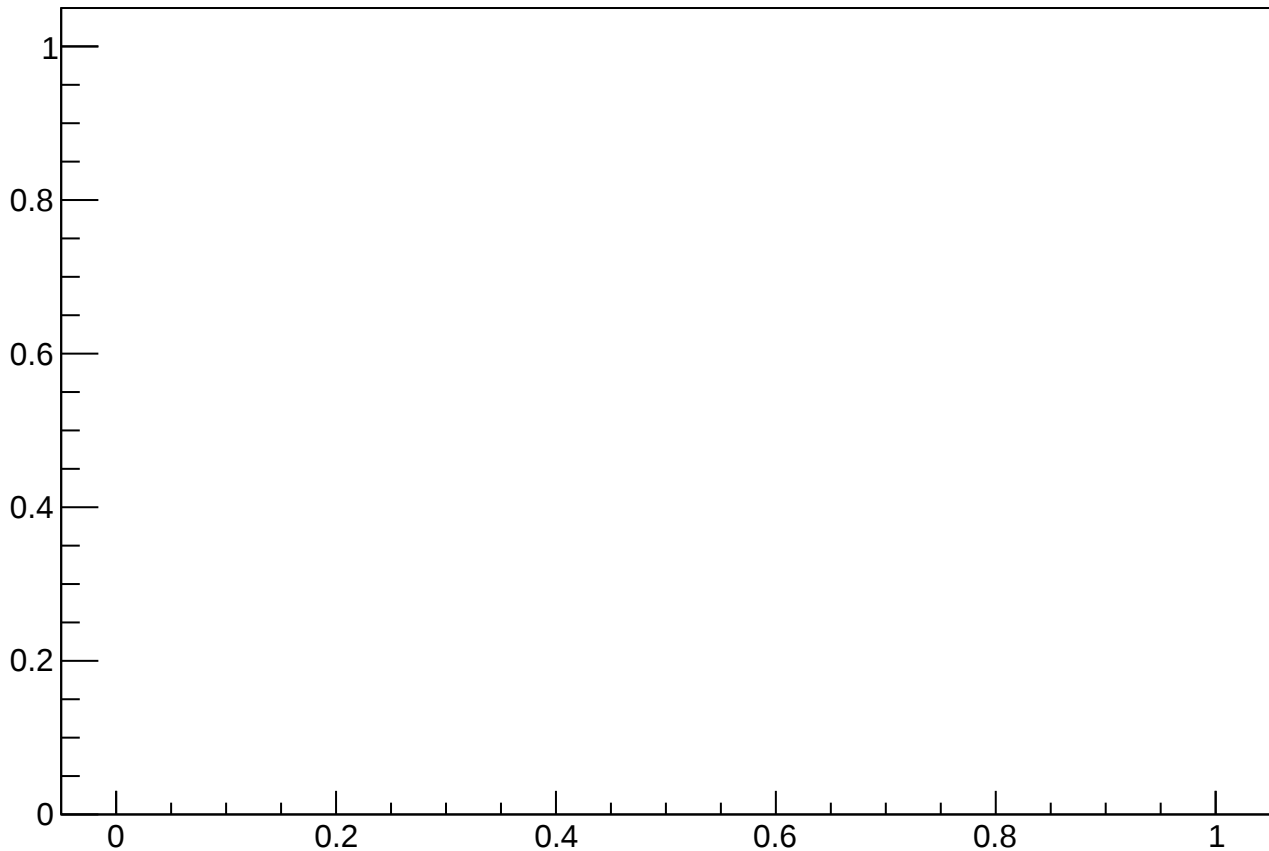
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

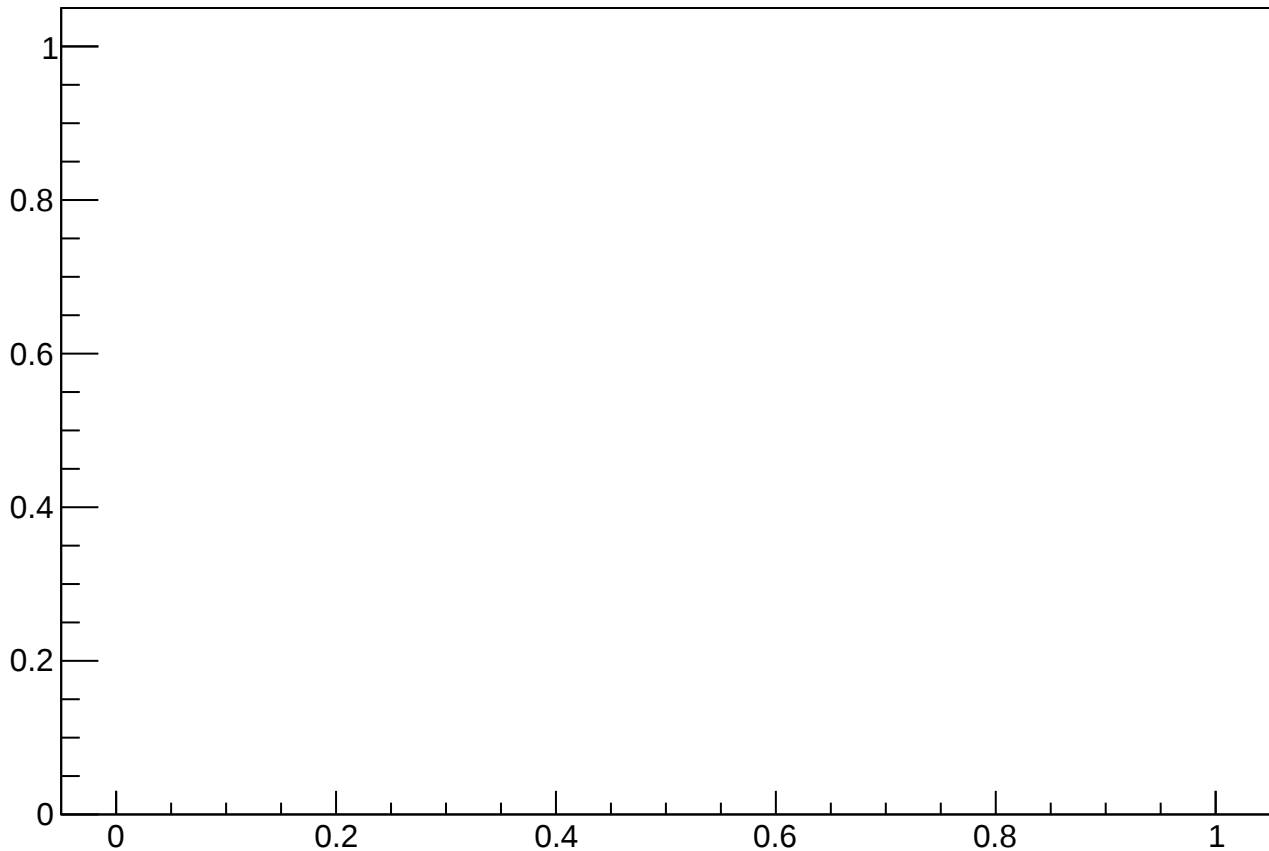
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

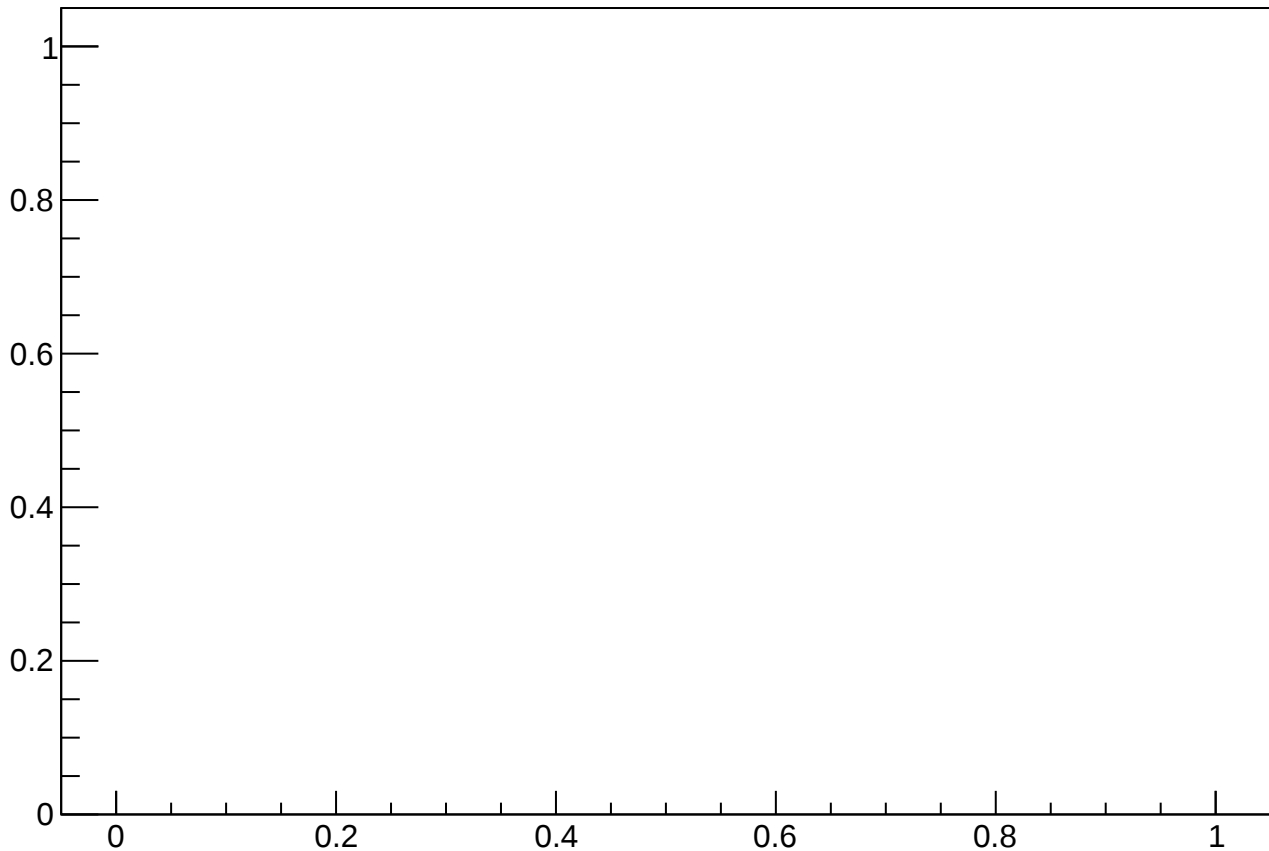
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

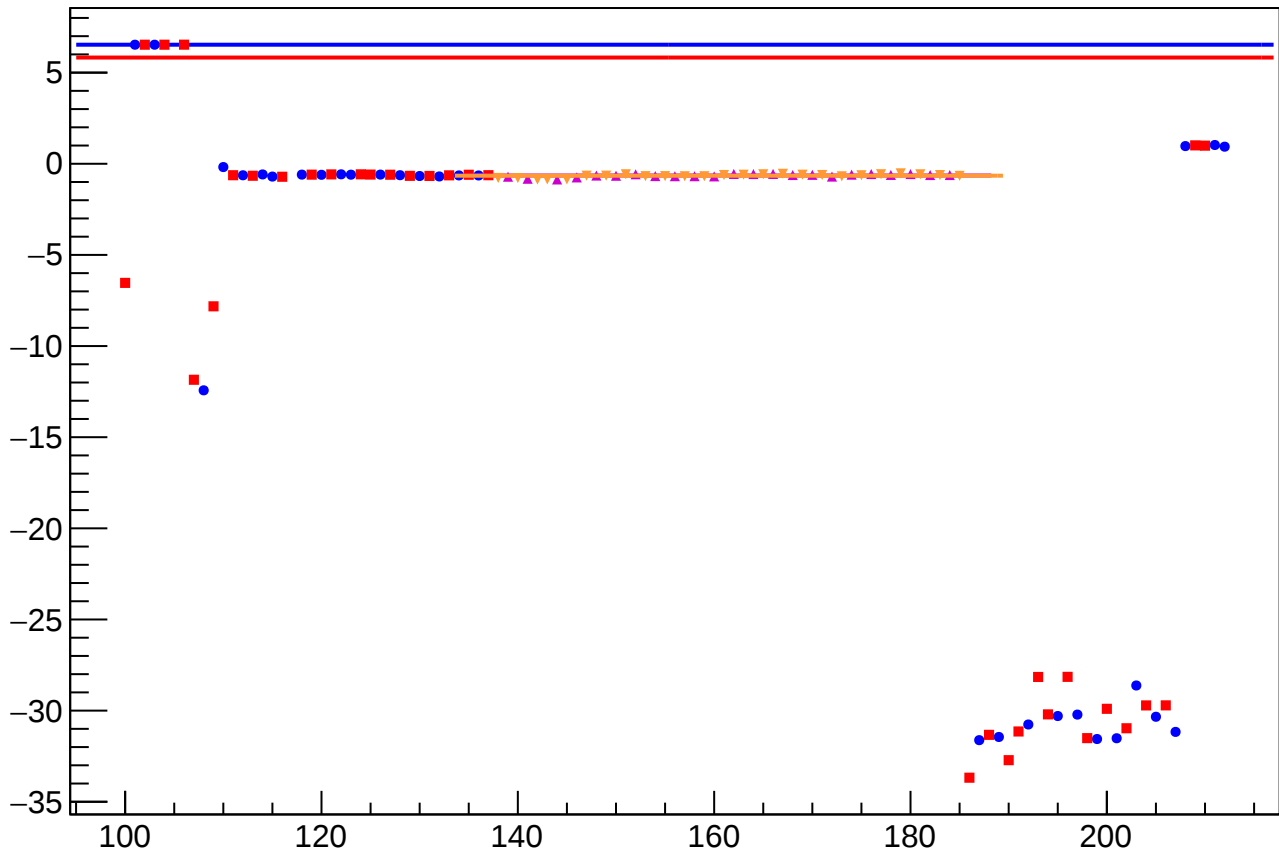
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 133671370592.9/29

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755964997627703.0/32

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

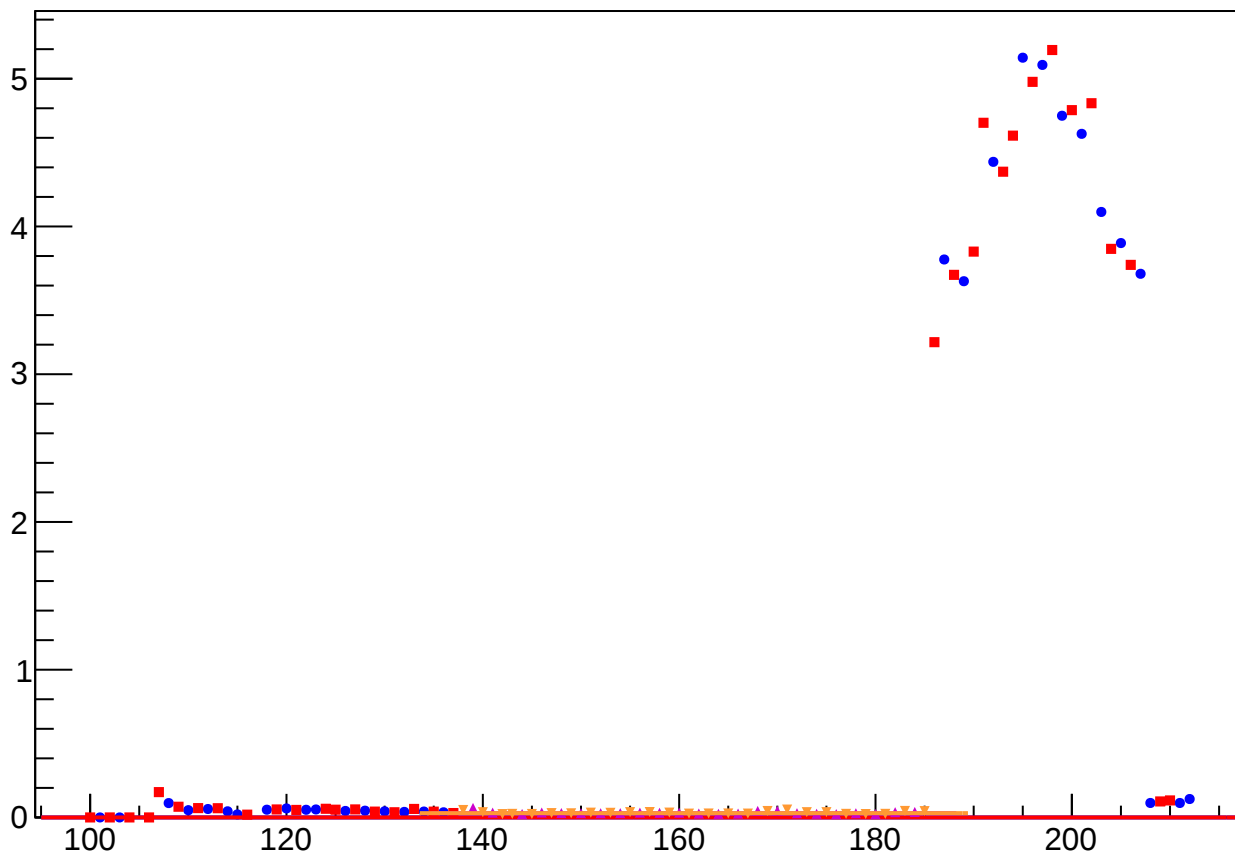
Right: 6.155+/-0.000 χ^2/NDF : 776102258434585.9/47

In: 6.530+/-0.000 χ^2/NDF : 967786853238.0/52

Out: 5.826+/-0.000 χ^2/NDF : 756676013179762.1/52

All: 6.153+/-0.000 χ^2/NDF : 77763568613683.0/99

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 26801945.0/29

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 27611748.5/32

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

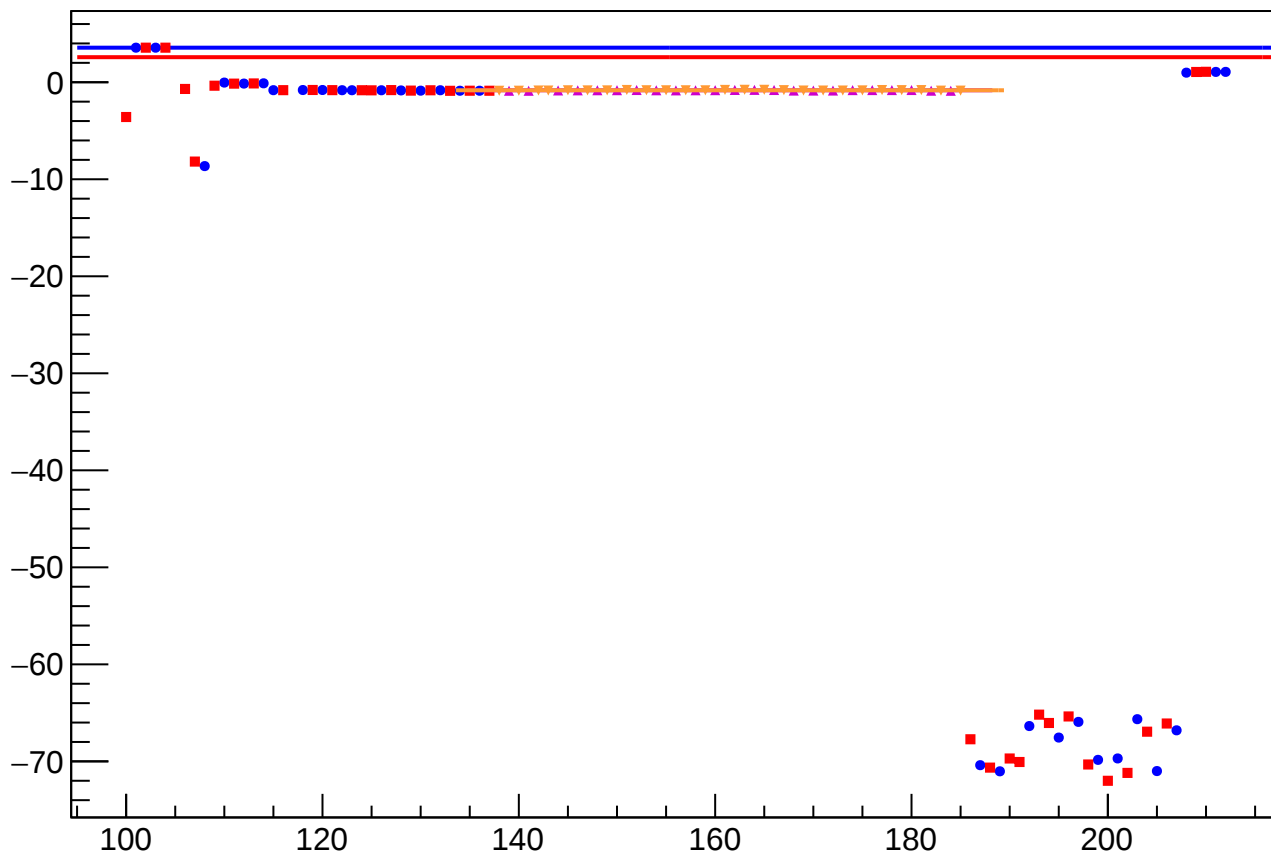
Right: 0.000+/-0.000 χ^2/NDF : 54413974.4/62

In: 0.000+/-0.000 χ^2/NDF :54979261.2/52

Out: 0.000+/-0.000 χ^2/NDF :57579498.5/57

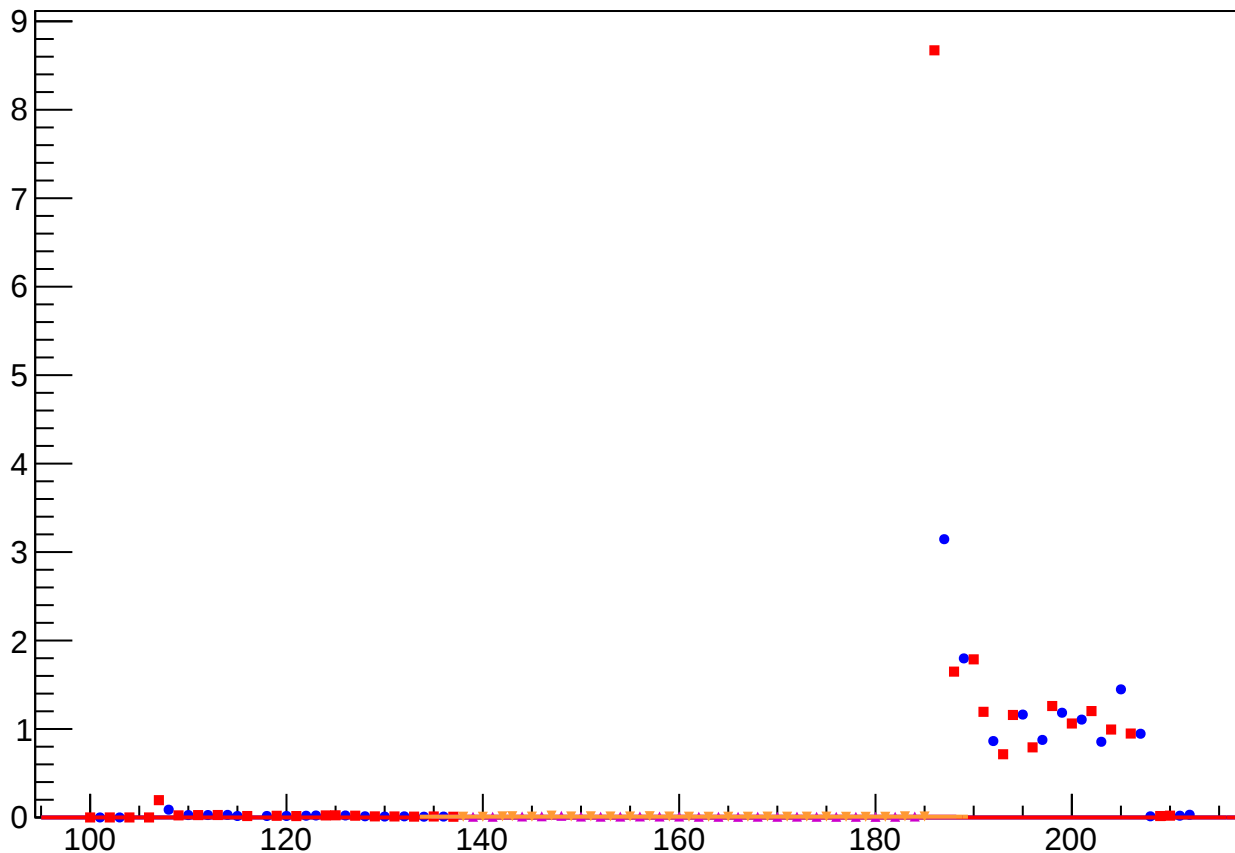
All: 0.000+/-0.000 χ^2/NDF : 112559228.5/110

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 539017866925.8/29	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 : 1382344502185856.5
Right Out: 2.583+/-0.000	χ^2/NDF : 1253539890013778.8/32	In: 3.560+/-0.000	χ^2/NDF : 4219492176627.9/52
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255770762180333.5
		All: 3.038+/-0.000	χ^2/NDF : 13880689614688.5

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 24638089.7/29

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 25587989.1/32

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

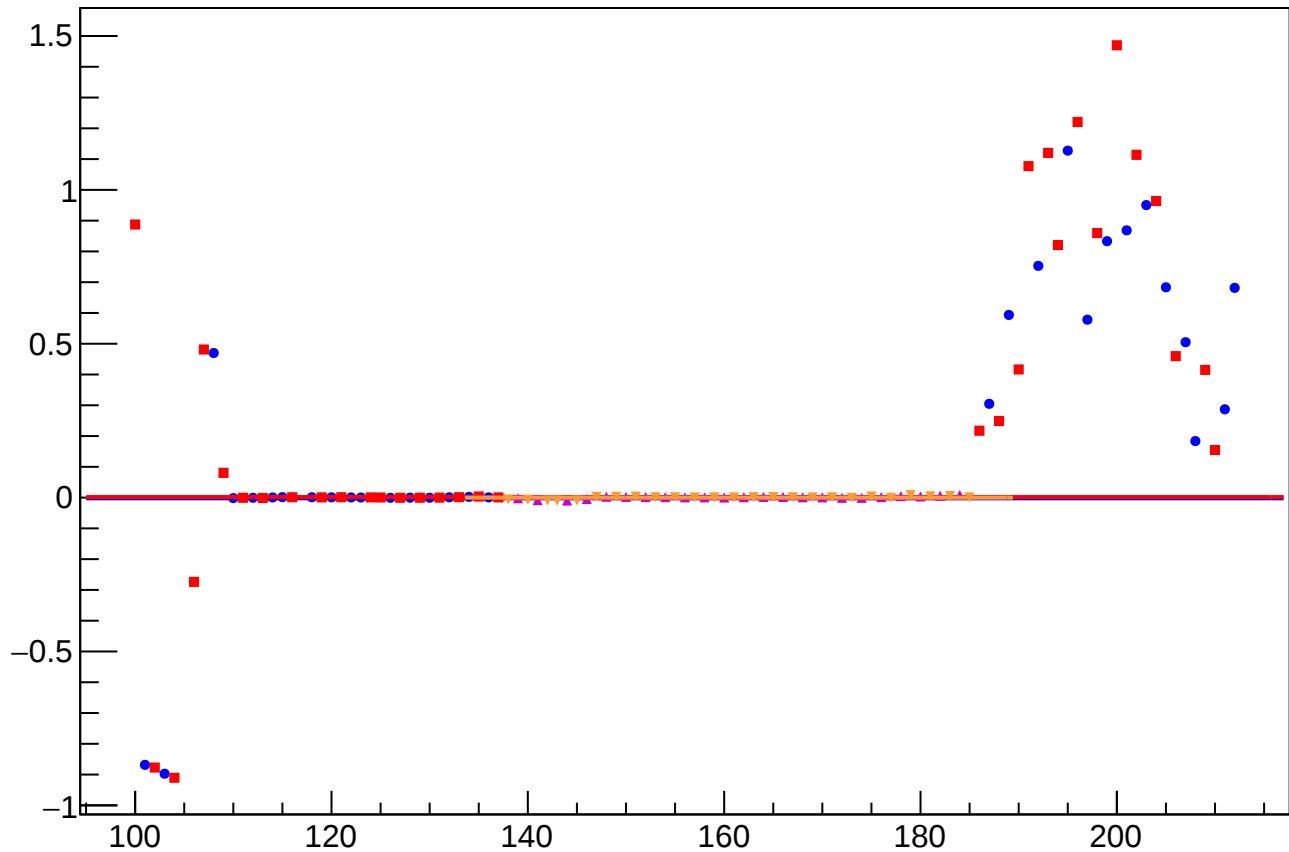
Right: 0.000+/-0.000 χ^2/NDF : 50226411.2/62

In: 0.000+/-0.000 χ^2/NDF :54432866.4/52

Out: 0.000+/-0.000 χ^2/NDF :57104400.3/57

All: 0.000+/-0.000 χ^2/NDF : 111538141.5/110

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796580192.4/29

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3043692283.2/32

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

Left: 0.000+/-0.000

χ^2/NDF : 254489625.0/47

Right: -0.000+/-0.000

χ^2/NDF : 12854419841.1/62

In: -0.000+/-0.000

χ^2/NDF : 9909486345.5/52

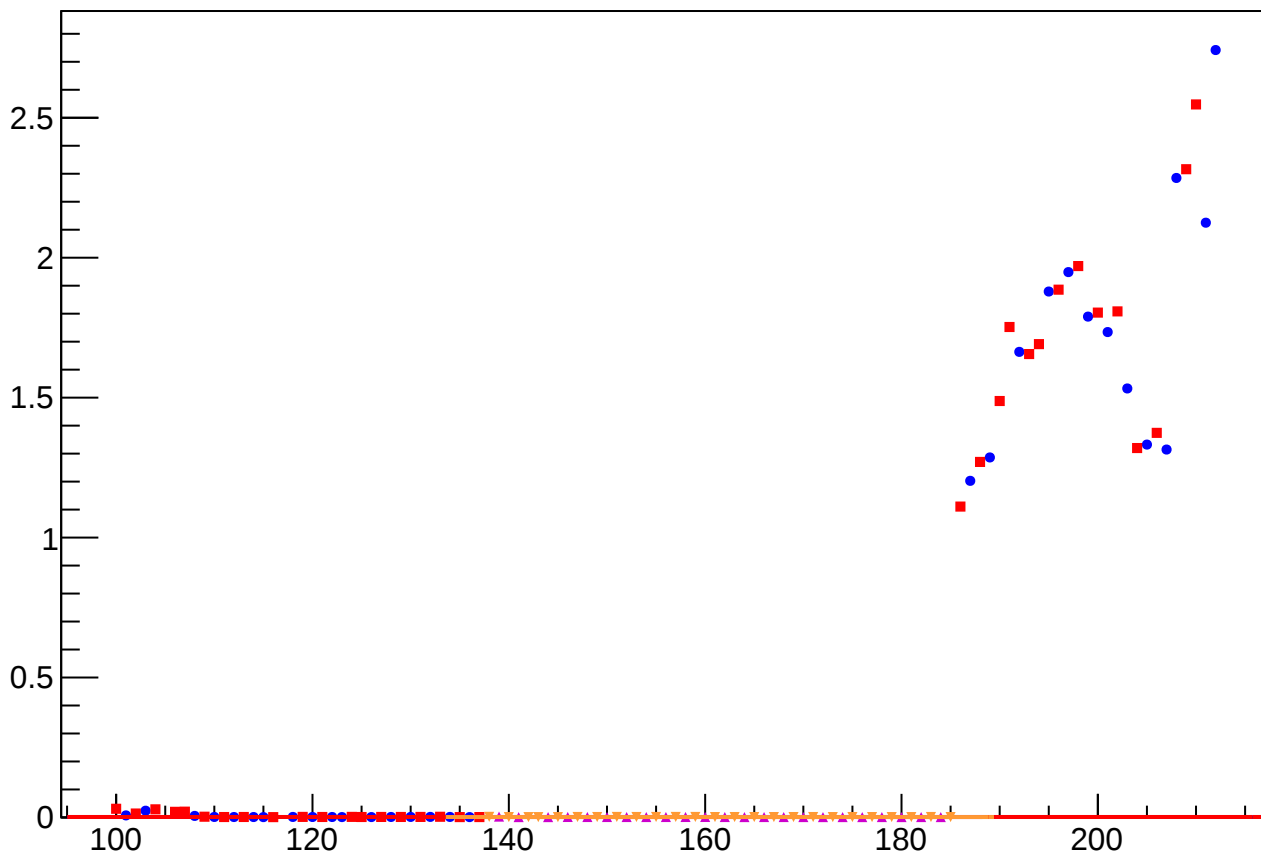
Out: 0.000+/-0.000

χ^2/NDF : 3199930554.4/57

All: 0.000+/-0.000

χ^2/NDF : 13109788378.0/1

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 19848160.5/29

Left Out: 0.001+/-0.000 χ^2/NDF : 539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 21263342.4/32

Left In: 0.001+/-0.000 χ^2/NDF : 659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

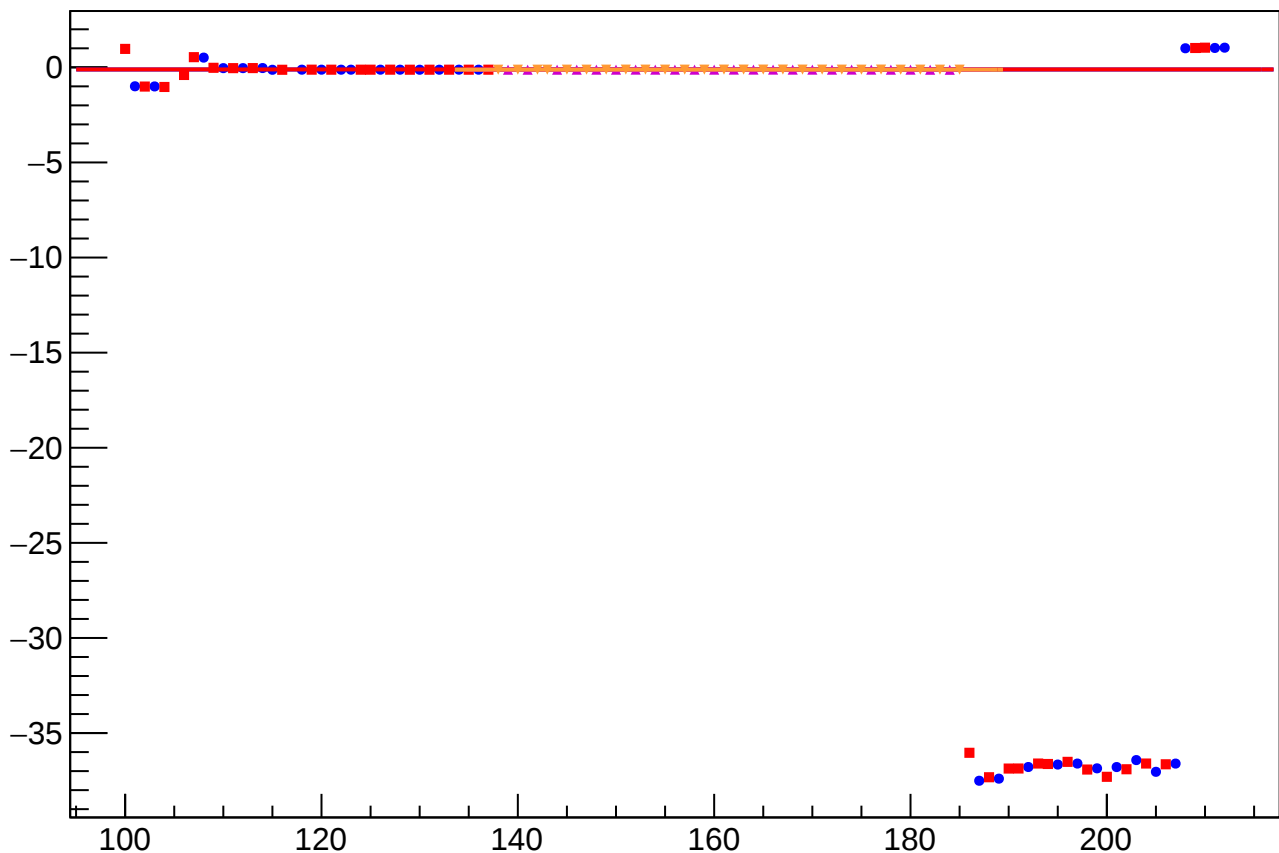
Right: 0.002+/-0.000 χ^2/NDF : 41119440.2/62

In: 0.002+/-0.000 χ^2/NDF : 20561022.6/52

Out: 0.002+/-0.000 χ^2/NDF : 21939507.7/57

All: 0.002+/-0.000 χ^2/NDF : 42501167.1/110

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.113+/-0.000 χ^2/NDF : 82493187932.8/29

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.110+/-0.000 χ^2/NDF : 81528024537.1/32

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

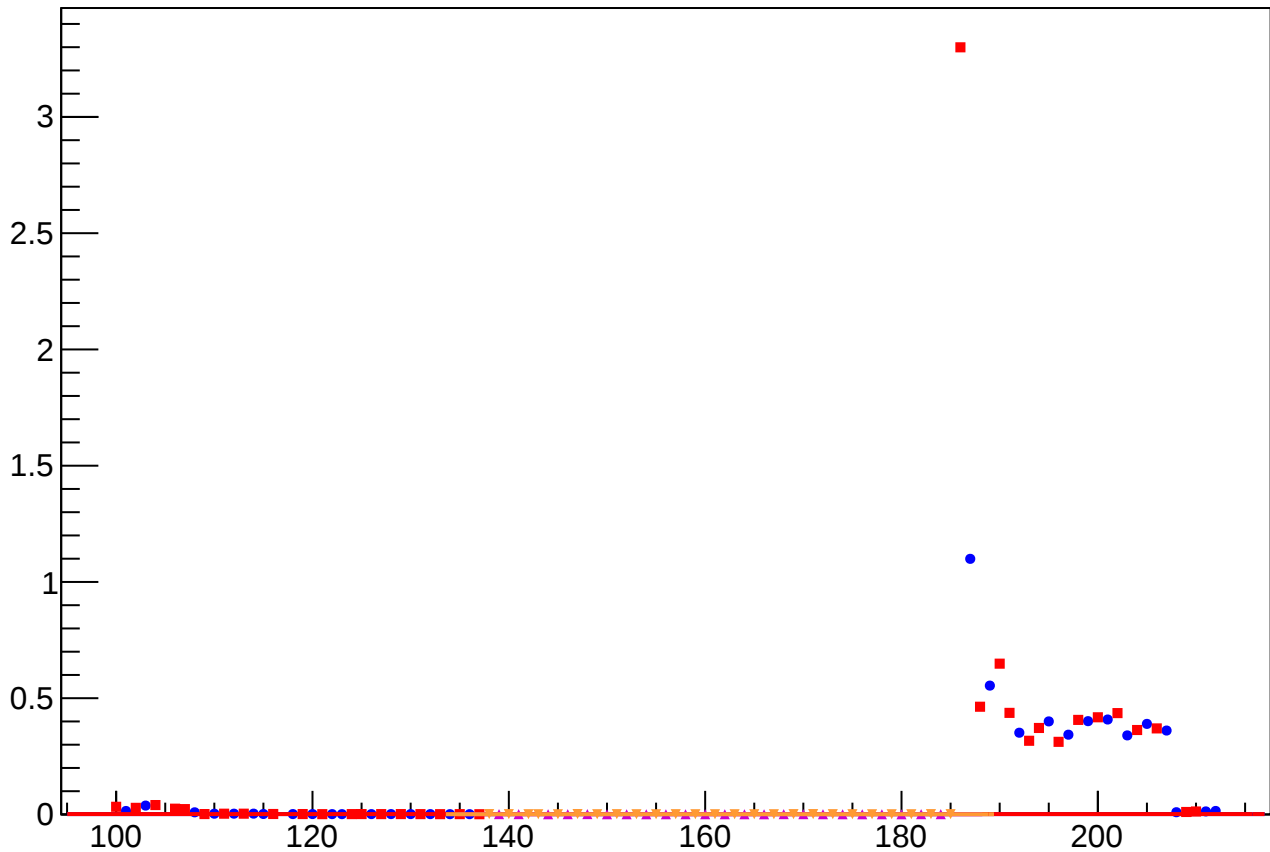
Right: -0.112+/-0.000 χ^2/NDF : 164029556182.8/62

In: -0.120+/-0.000 χ^2/NDF : 82646756098.8/52

Out: -0.120+/-0.000 χ^2/NDF : 81787513378.7/57

All: -0.120+/-0.000 χ^2/NDF : 164434351154.7

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 19164487.5/29

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 20526006.0/32

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

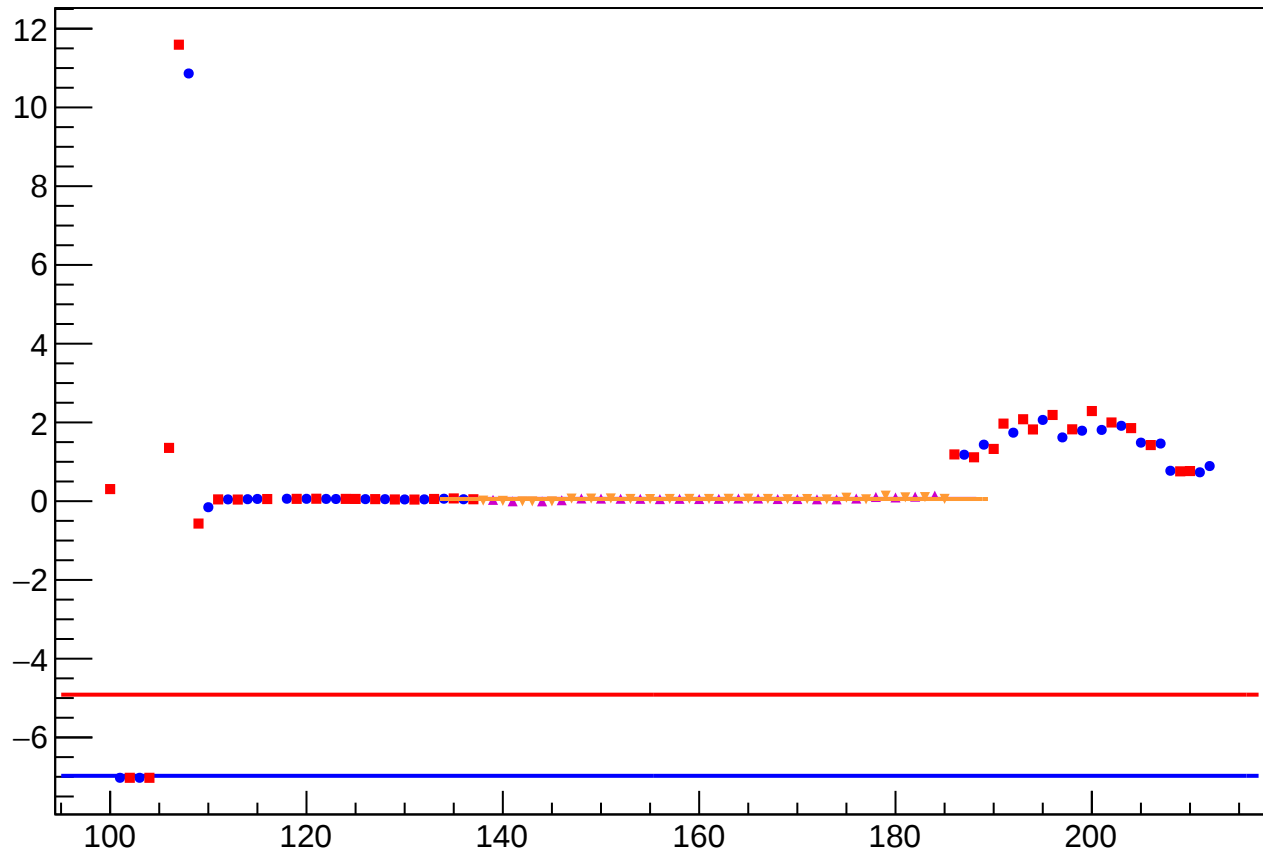
Right: 0.002+/-0.000 χ^2/NDF : 39691656.9/62

In: 0.001+/-0.000 χ^2/NDF :21606784.4/52

Out: 0.001+/-0.000 χ^2/NDF :23298645.2/57

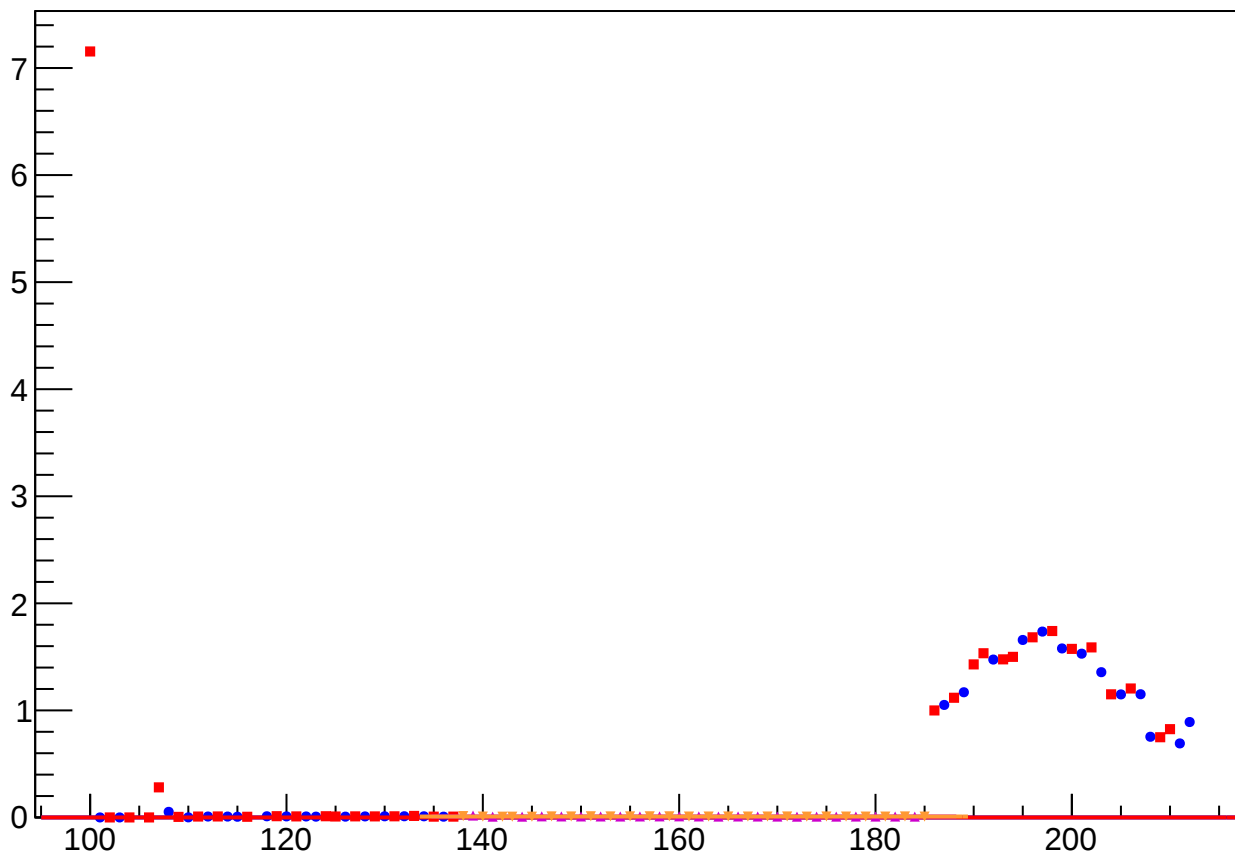
All: 0.001+/-0.000 χ^2/NDF : 44908660.2/110

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762928673343.3/29$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423872259.5/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430303891992625.7$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348787080653.4/32$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605451849016.6/52$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175472462227.6/$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435818514381$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 26178760.5/29

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 27025684.0/32

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

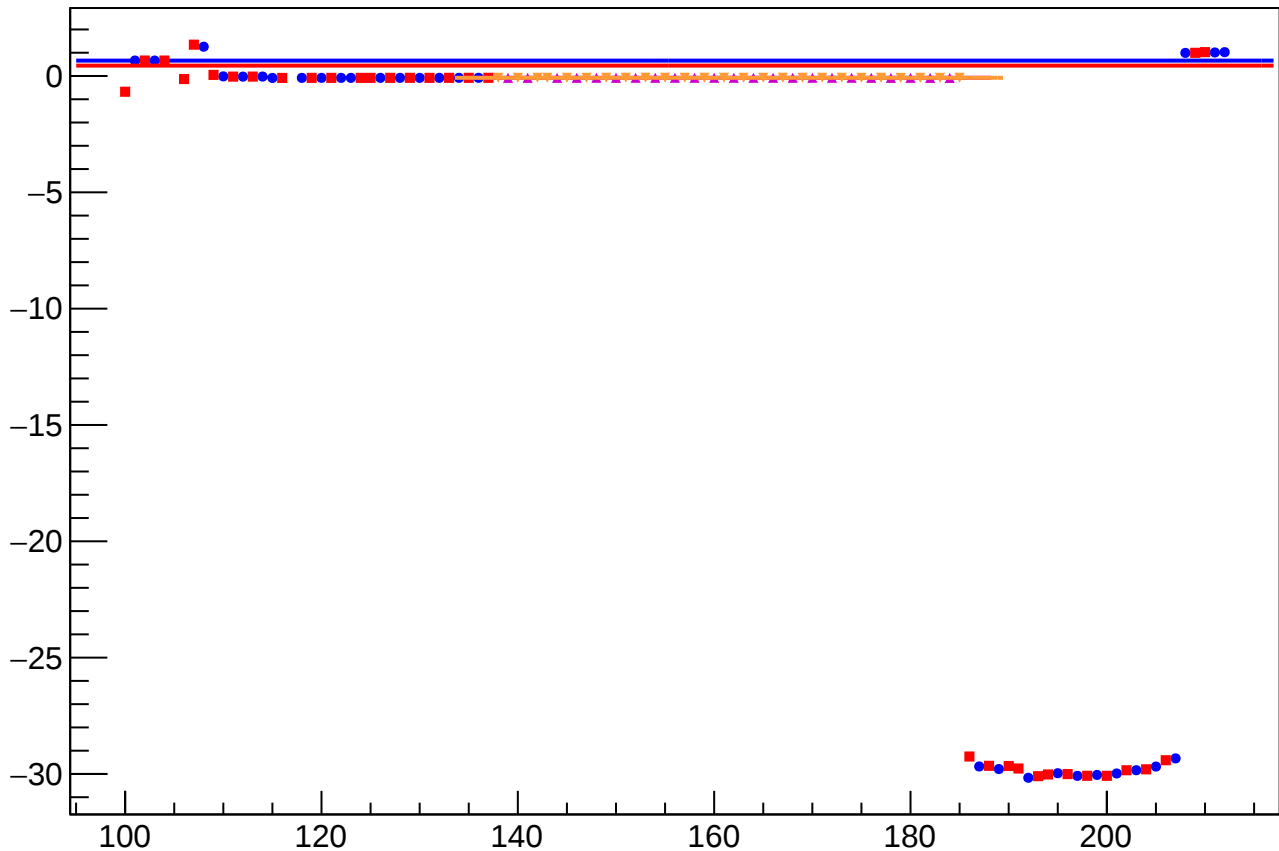
Right: 0.000+/-0.000 χ^2/NDF : 53204758.9/62

In: 0.000+/-0.000 χ^2/NDF : 53814530.4/52

Out: 0.000+/-0.000 χ^2/NDF : 56053021.9/57

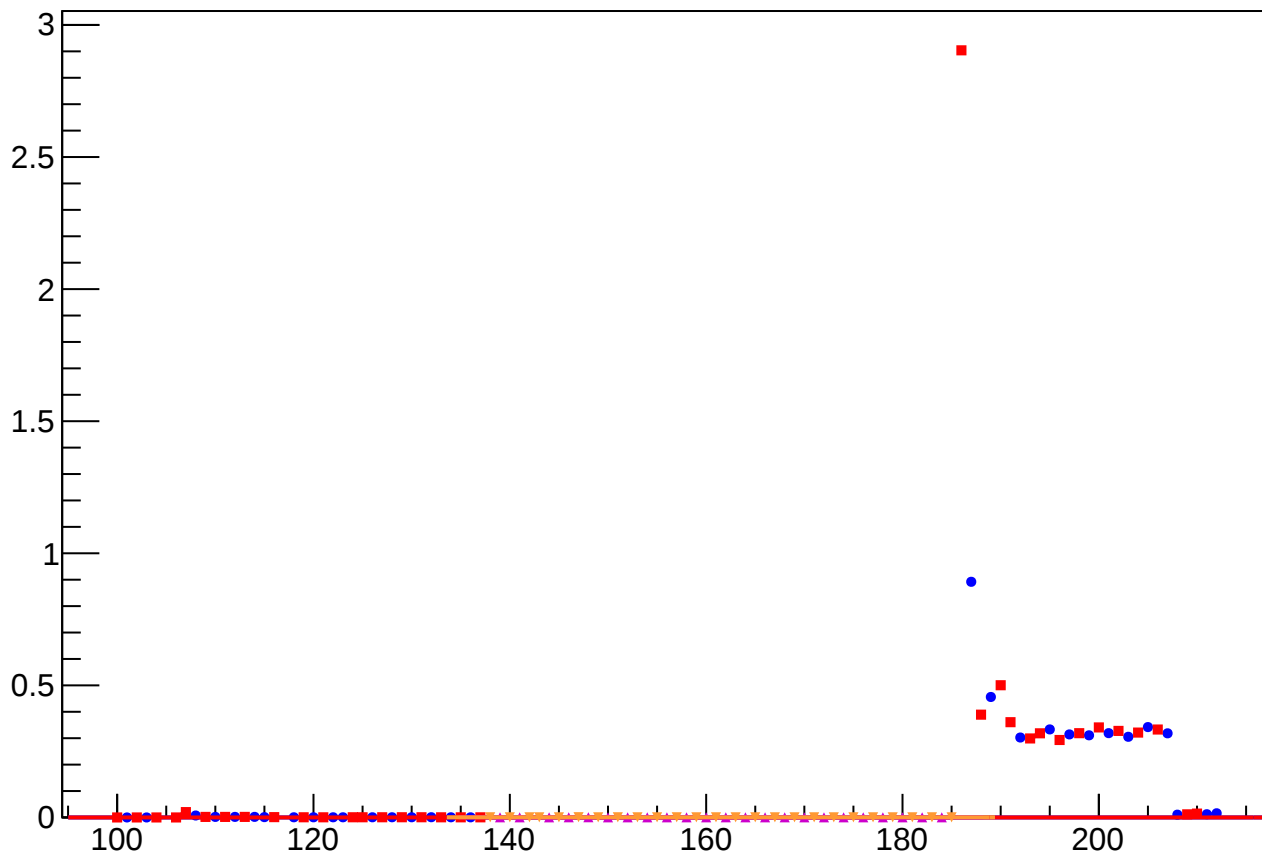
All: 0.000+/-0.000 χ^2/NDF : 109868052.2/110

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5647304354432.7/29	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 : 474058154373930.2
Right Out: 0.446+/-0.000	χ^2/NDF : 405481357265332.0/32	In: 0.647+/-0.000	χ^2/NDF : 33907369842136.7/52
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420676015875644.8/5
		All: 0.537+/-0.000	χ^2/NDF : 51610835231786

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 27566461.2/29

Left Out: 0.001+/-0.000 χ^2/NDF : 466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 27577224.7/32

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

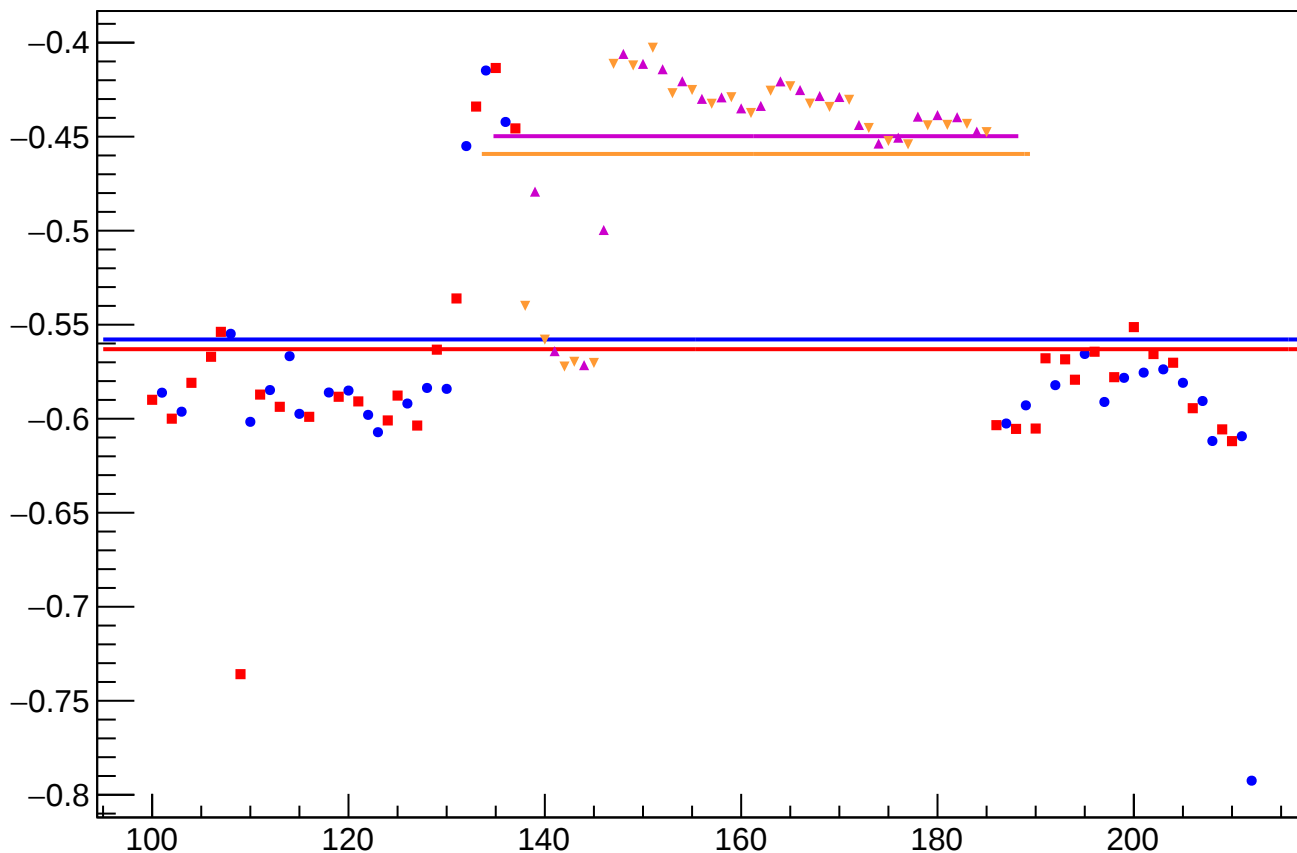
Right: 0.000+/-0.000 χ^2/NDF : 55143700.2/62

In: 0.000+/-0.000 χ^2/NDF : 58537789.5/52

Out: 0.000+/-0.000 χ^2/NDF : 60286529.3/57

All: 0.000+/-0.000 χ^2/NDF : 118824769.6/110

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.558+/-0.000 χ^2/NDF : 63480896.6/29

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.563+/-0.000 χ^2/NDF : 66825868.1/32

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

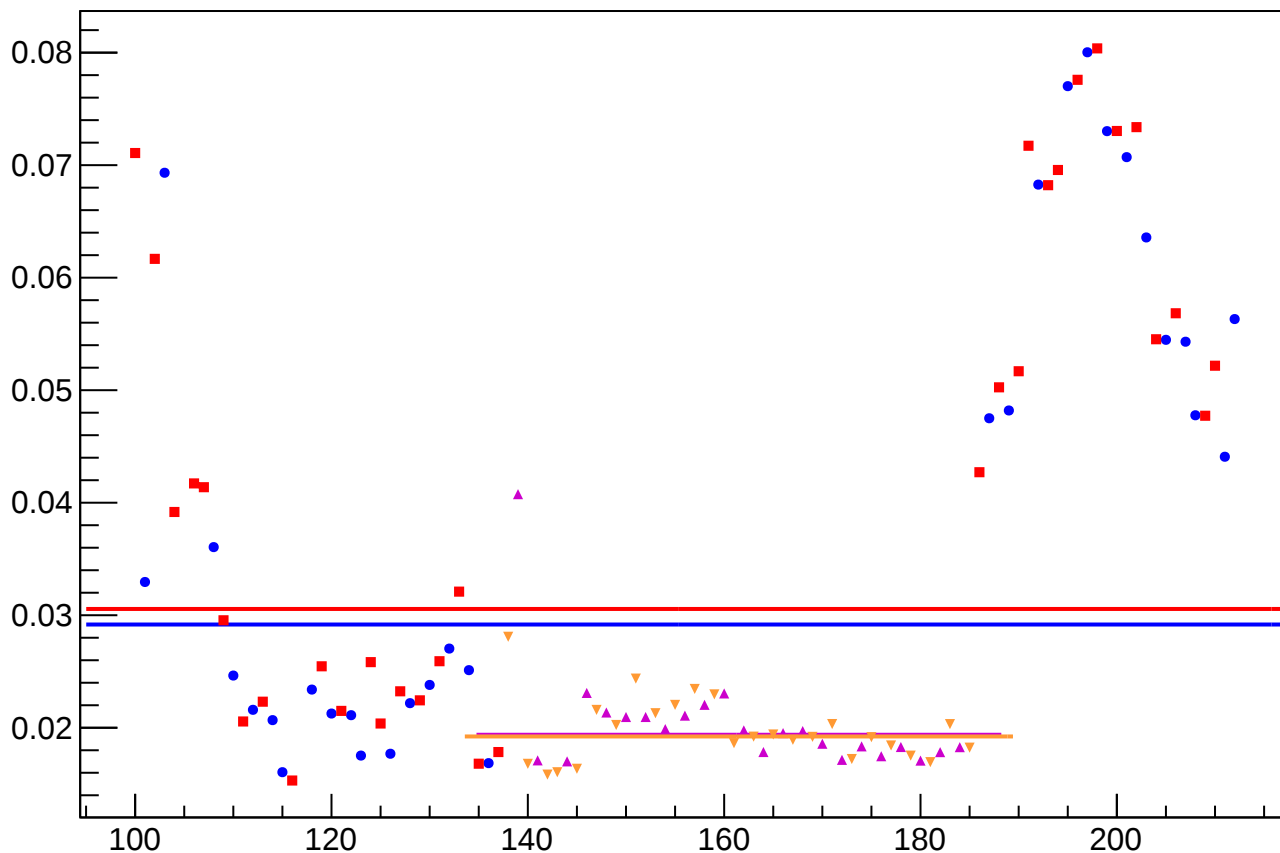
Right: -0.560+/-0.000 χ^2/NDF : 130476447.7/62

In: -0.478+/-0.000 χ^2/NDF : 252068812.7/52

Out: -0.484+/-0.000 χ^2/NDF : 282845894.7/57

All: -0.481+/-0.000 χ^2/NDF : 535870708.6/11

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.000 χ^2 /NDF: 6941650.3/29

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:501253.7/24

Right Out: 0.031 $\pm$ 0.000 χ^2 /NDF: 6878852.9/32

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:656155.9/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1158298.6/47

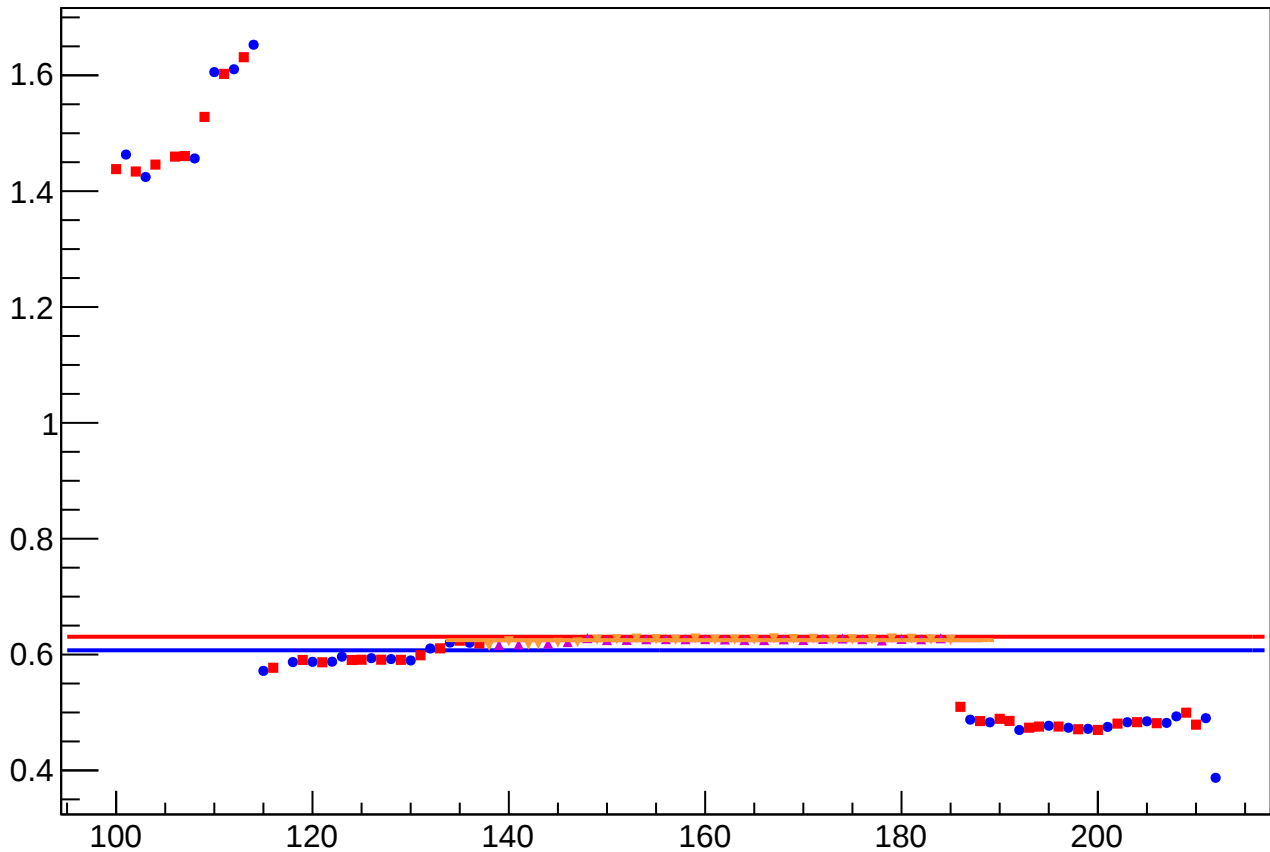
Right: 0.030 $\pm$ 0.000 χ^2 /NDF: 13844735.1/62

In: 0.022 $\pm$ 0.000 χ^2 /NDF:9445067.5/52

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:9814847.8/57

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 19259915.5/110

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.607+/-0.000 χ^2/NDF : 5215937736.2/29

Left Out: 0.625+/-0.000 χ^2/NDF :1442225.6/24

Right Out: 0.631+/-0.000 χ^2/NDF : 6163815945.7/32

Left In: 0.625+/-0.000 χ^2/NDF :1135039.4/22

Left: 0.625+/-0.000 χ^2/NDF : 2577573.3/47

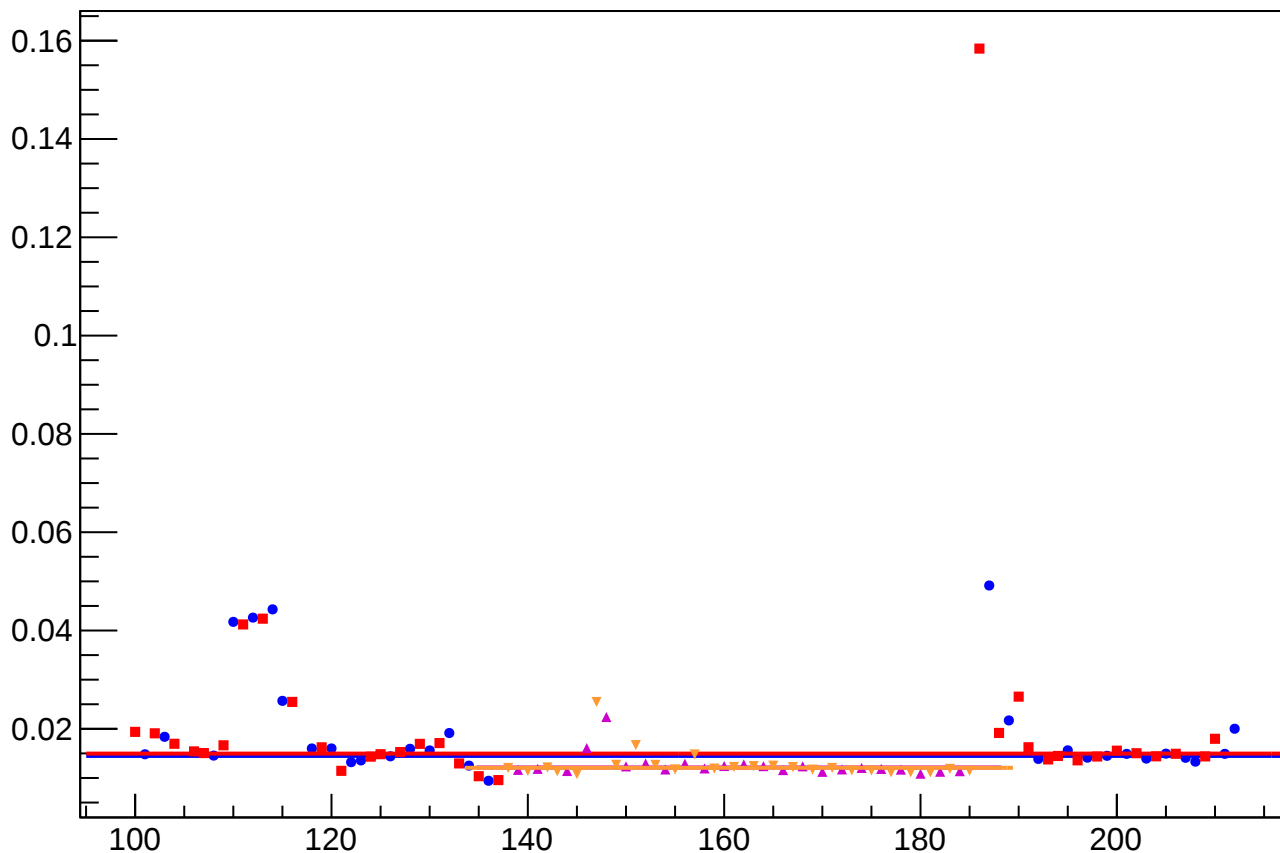
Right: 0.619+/-0.000 χ^2/NDF : 11398018060.7/62

In: 0.618+/-0.000 χ^2/NDF :5230098639.9/52

Out: 0.627+/-0.000 χ^2/NDF :6166718792.4/57

All: 0.623+/-0.000 χ^2/NDF : 11403706049.2/114

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1767596.7/29

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2113748.8/32

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF: 488249.4/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146144.5/47

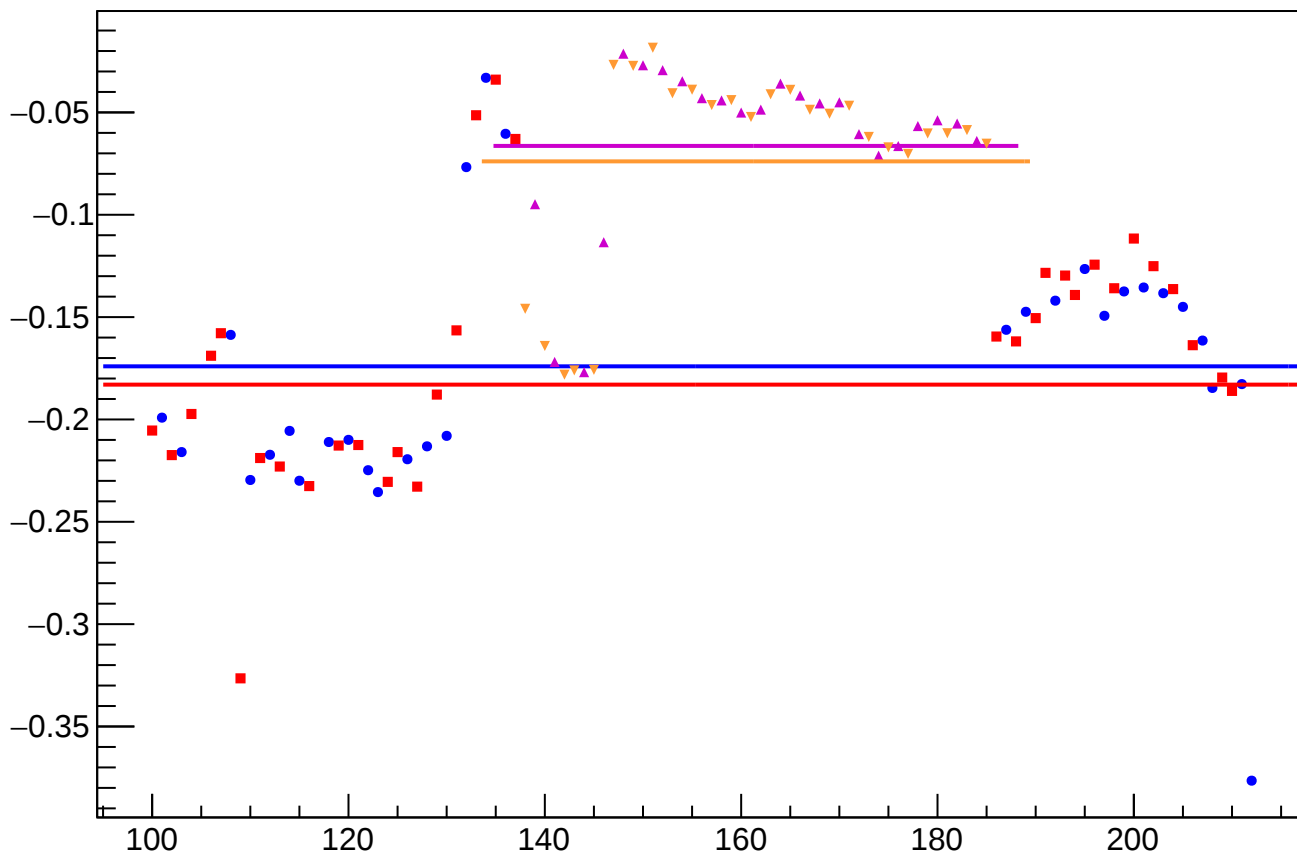
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3895971.9/62

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2728133.7/52

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3477951.4/57

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6206952.8/110

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.174+/-0.000 χ^2/NDF : 79323734.9/29

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.183+/-0.000 χ^2/NDF : 85897708.0/32

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

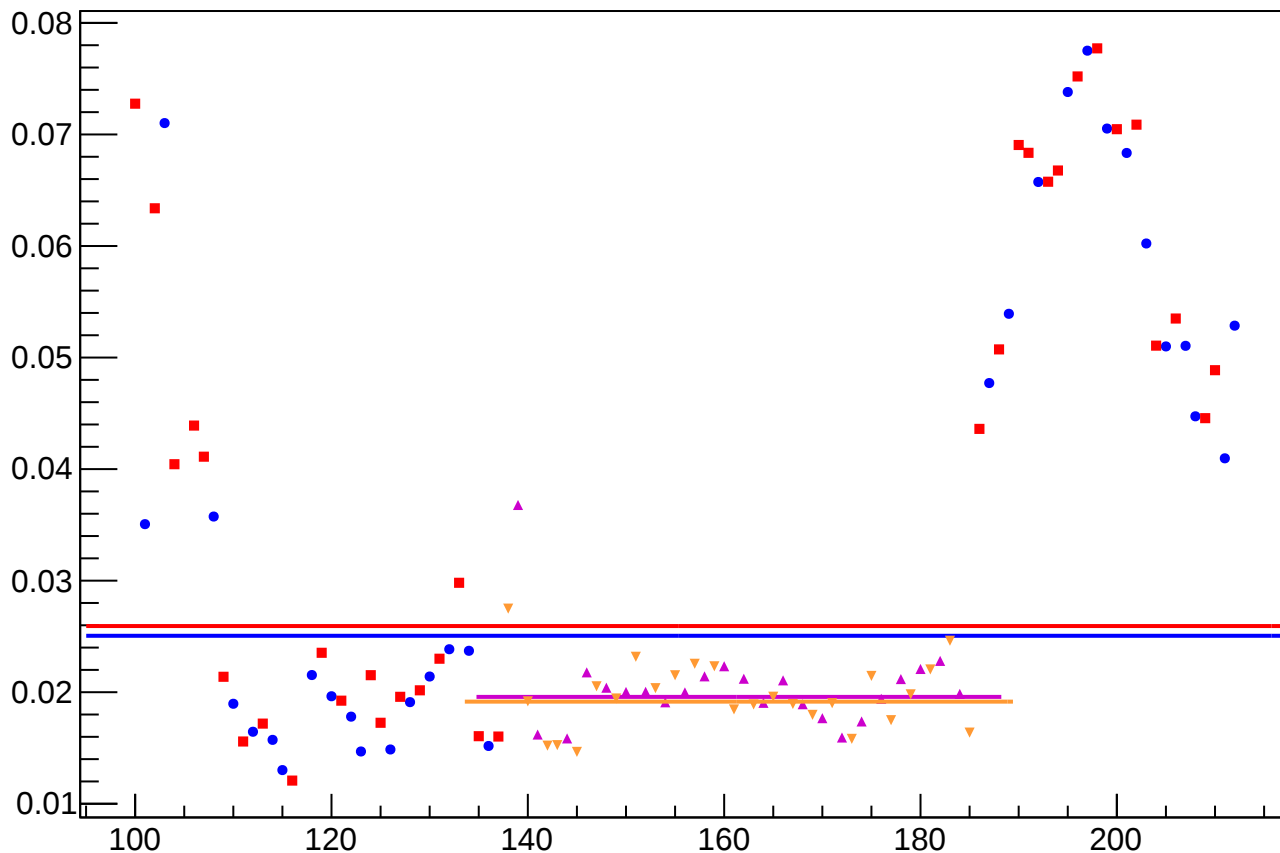
Right: -0.178+/-0.000 χ^2/NDF : 165875755.4/62

In: -0.099+/-0.000 χ^2/NDF : 289233134.1/52

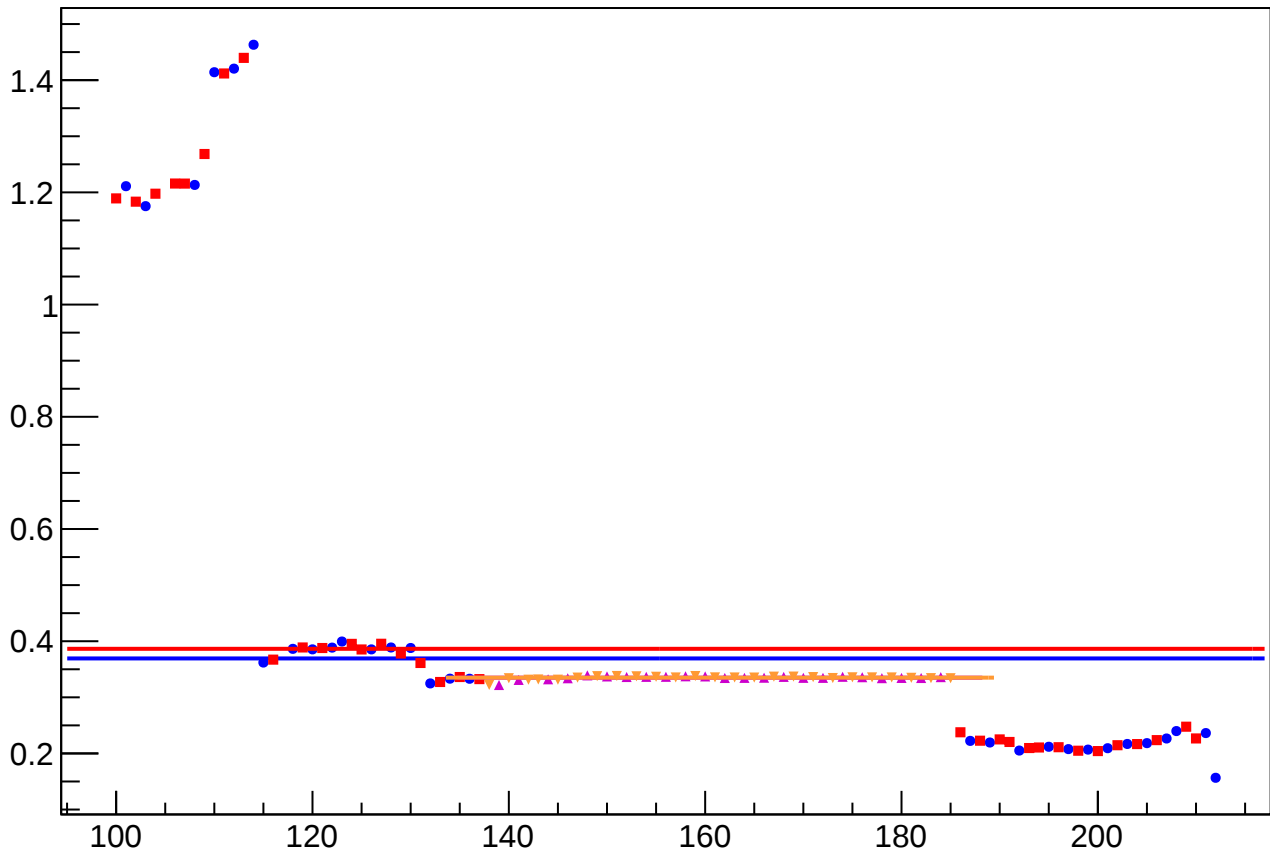
Out: -0.105+/-0.000 χ^2/NDF : 331581585.7/57

All: -0.102+/-0.000 χ^2/NDF : 621533382.4/111

yield_bpm4eX_rms vs Slug, Sign Corrected



yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.369+/-0.000 χ^2/NDF : 7661328146.7/29

Left Out: 0.335+/-0.000 χ^2/NDF : 1153956.7/24

Right Out: 0.386+/-0.000 χ^2/NDF : 8670682091.3/32

Left In: 0.335+/-0.000 χ^2/NDF : 1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

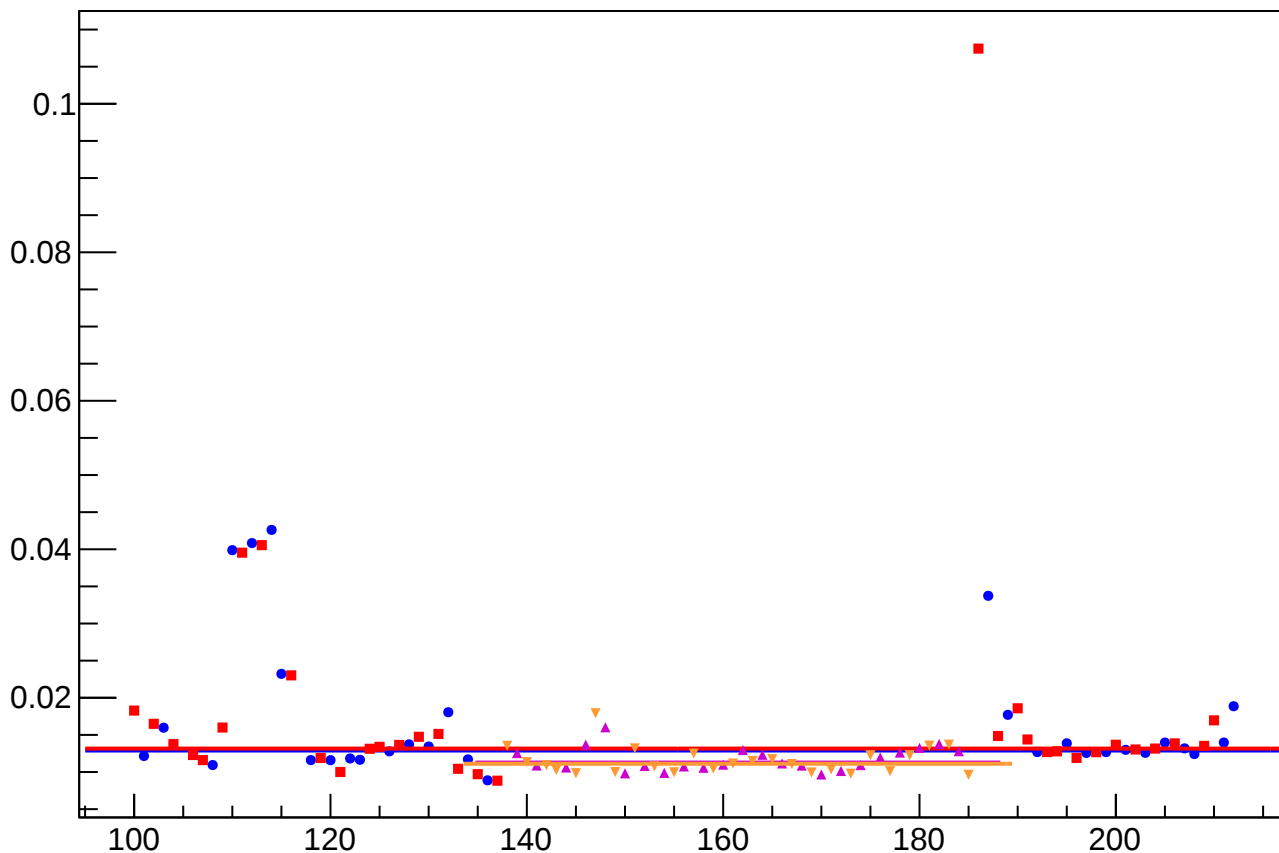
Right: 0.378+/-0.000 χ^2/NDF : 16344509220.1/62

In: 0.349+/-0.000 χ^2/NDF : 7723555033.6/52

Out: 0.354+/-0.000 χ^2/NDF : 8811157943.0/57

All: 0.351+/-0.000 χ^2/NDF : 16538215936.5/111

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1684979.9/29

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2009843.0/32

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

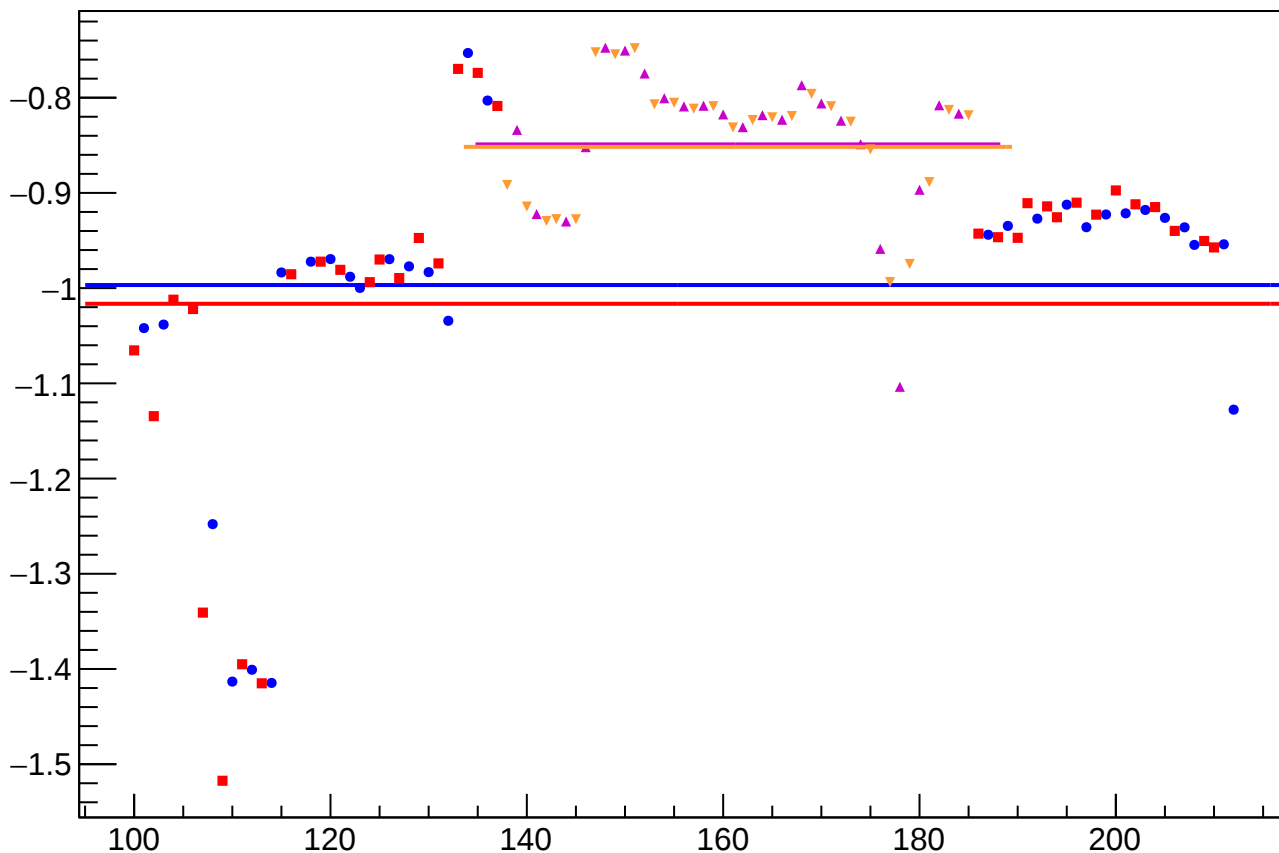
Right: 0.013+/-0.000 χ^2/NDF : 3700644.9/62

In: 0.012+/-0.000 χ^2/NDF : 2460274.4/52

Out: 0.012+/-0.000 χ^2/NDF : 3058616.8/57

All: 0.012+/-0.000 χ^2/NDF : 5519250.3/110

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.997+/-0.000 χ^2/NDF : 408676458.0/29

Left Out: -0.852+/-0.000 χ^2/NDF :189276591.7/24

Right Out: -1.016+/-0.000 χ^2/NDF : 559228618.2/32

Left In: -0.849+/-0.000 χ^2/NDF :256438306.8/22

Left: -0.850+/-0.000 χ^2/NDF : 445849768.4/47

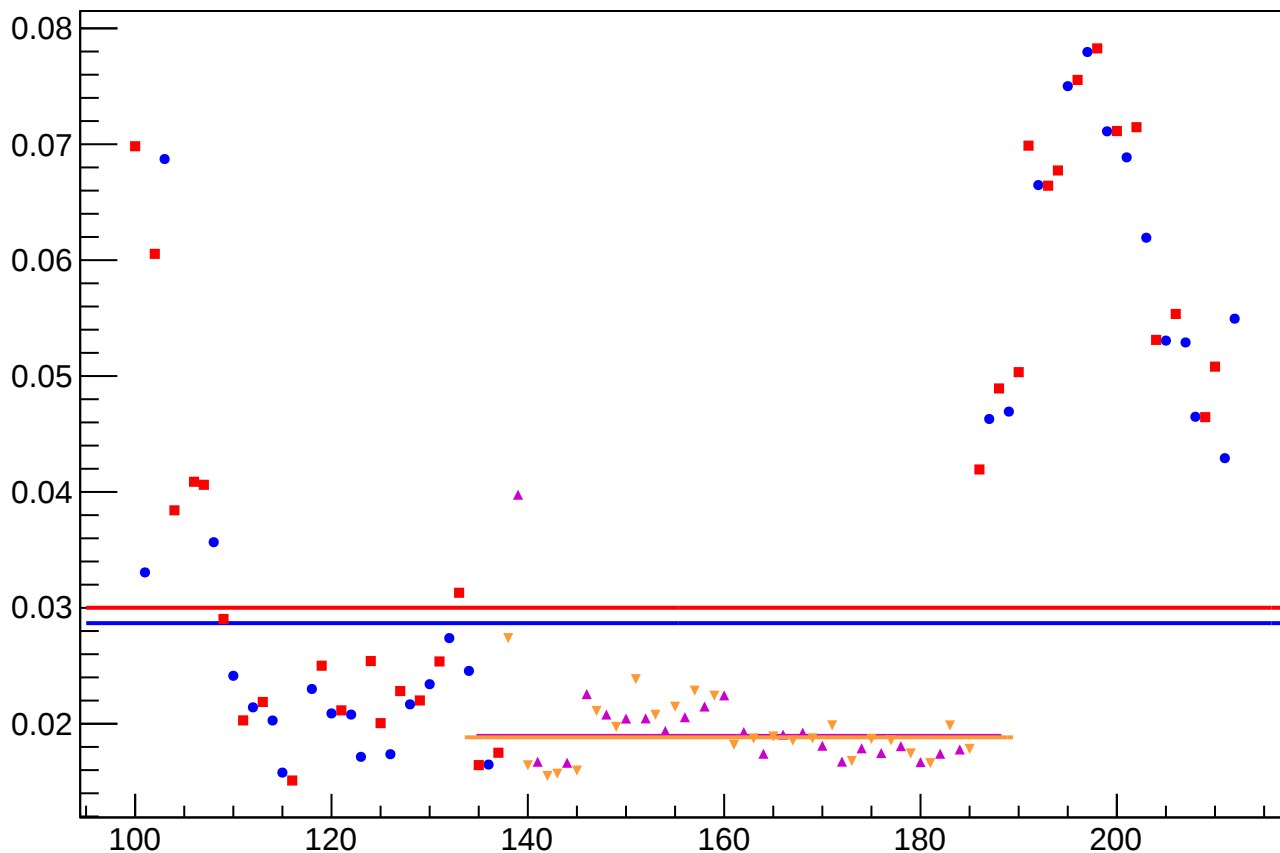
Right: -1.006+/-0.000 χ^2/NDF : 970452609.2/62

In: -0.887+/-0.000 χ^2/NDF :883372286.4/52

Out: -0.890+/-0.000 χ^2/NDF :1016195910.7/57

All: -0.889+/-0.000 χ^2/NDF : 1899908413.4/1

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 6887604.3/29

Left Out: 0.019+/-0.000 χ^2/NDF : 490084.5/24

Right Out: 0.030+/-0.000 χ^2/NDF : 6803959.4/32

Left In: 0.019+/-0.000 χ^2/NDF : 645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

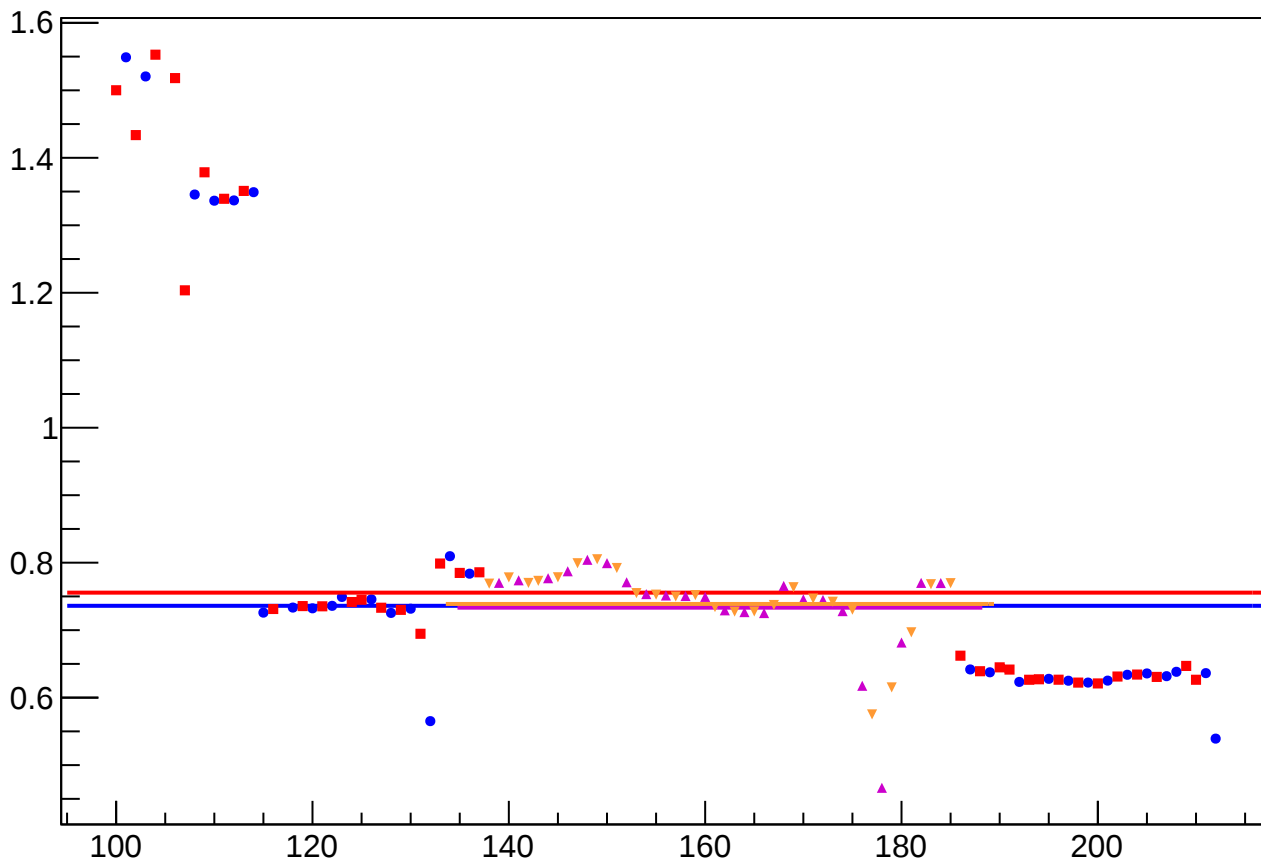
Right: 0.029+/-0.000 χ^2/NDF : 13714797.7/62

In: 0.021+/-0.000 χ^2/NDF : 9427155.8/52

Out: 0.021+/-0.000 χ^2/NDF : 9758609.2/57

All: 0.021+/-0.000 χ^2/NDF : 19185783.8/110

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.736 $\pm$ 0.000 χ^2 /NDF: 3590696188.5/29

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333086309.0/24

Right Out: 0.756 $\pm$ 0.000 χ^2 /NDF: 3842094317.8/32

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:570264411.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 905100069.4/47

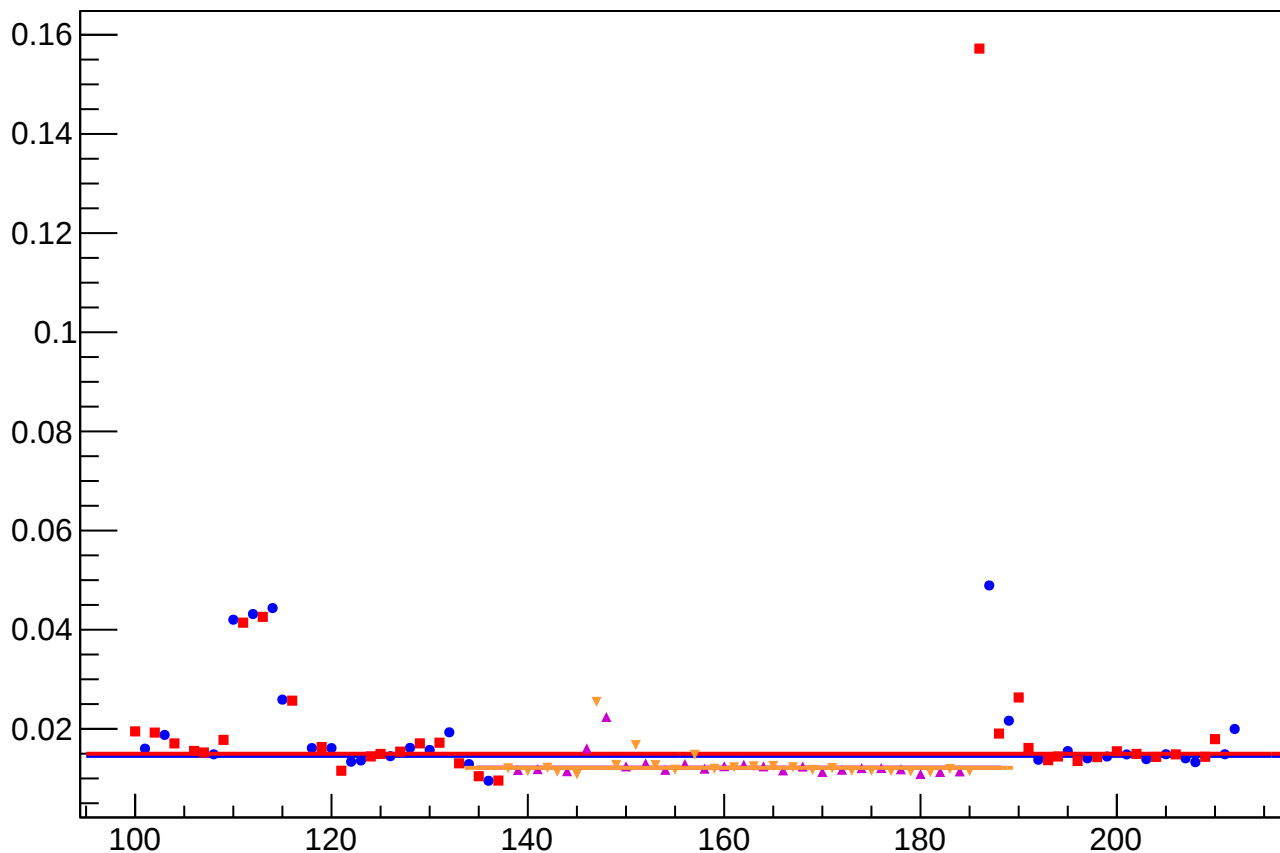
Right: 0.746 $\pm$ 0.000 χ^2 /NDF: 7445363315.1/62

In: 0.734 $\pm$ 0.000 χ^2 /NDF:4161281466.7/52

Out: 0.745 $\pm$ 0.000 χ^2 /NDF:4187040429.3/57

All: 0.740 $\pm$ 0.000 χ^2 /NDF: 8358114450.4/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1765865.0/29

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2116945.9/32

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

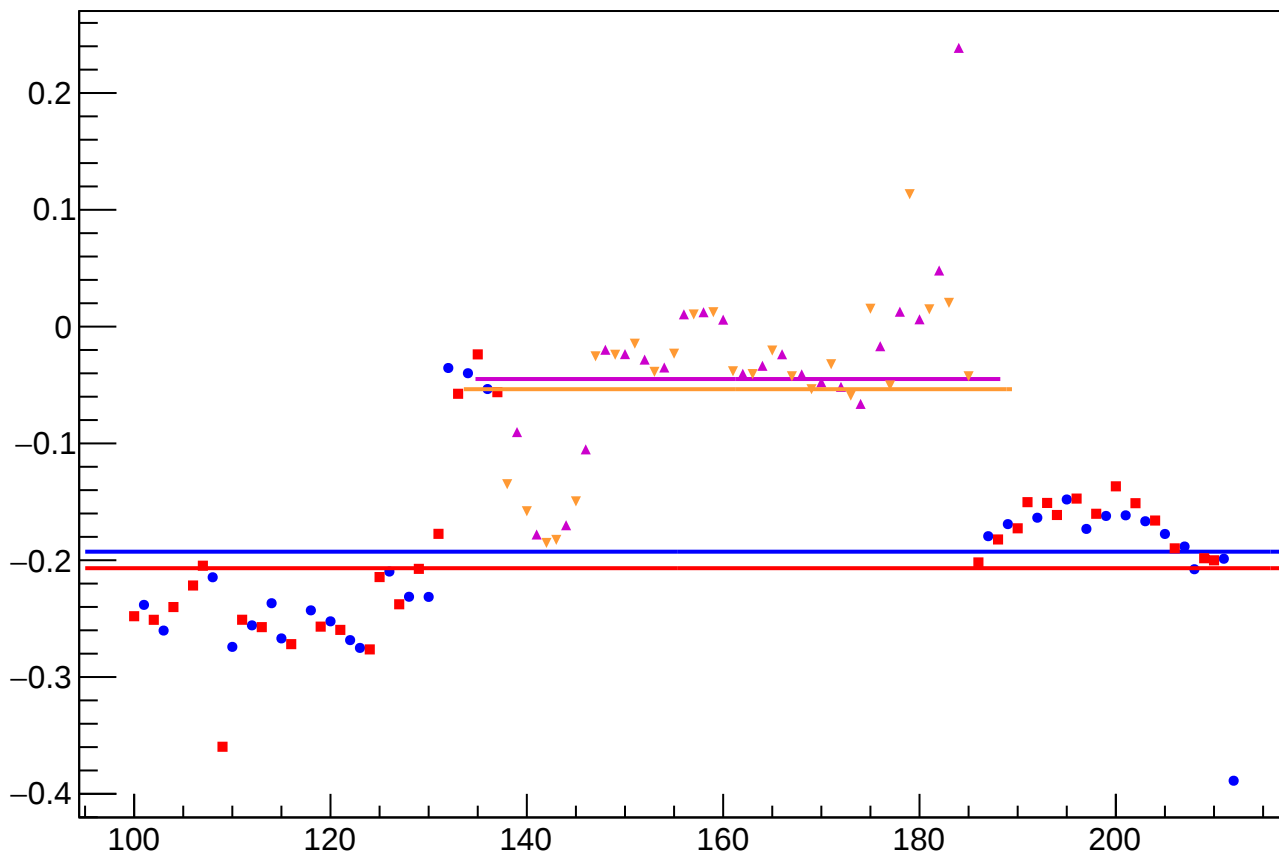
Right: 0.015+/-0.000 χ^2/NDF : 3894940.0/62

In: 0.013+/-0.000 χ^2/NDF : 2718481.6/52

Out: 0.013+/-0.000 χ^2/NDF : 3434857.0/57

All: 0.013+/-0.000 χ^2/NDF : 6154215.0/110

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.193+/-0.000 χ^2/NDF : 116898858.1/29

Left Out: -0.054+/-0.000 χ^2/NDF : 167879648.0/24

Right Out: -0.207+/-0.000 χ^2/NDF : 113859490.6/32

Left In: -0.045+/-0.000 χ^2/NDF : 127324000.1/22

Left: -0.049+/-0.000 χ^2/NDF : 296677486.5/47

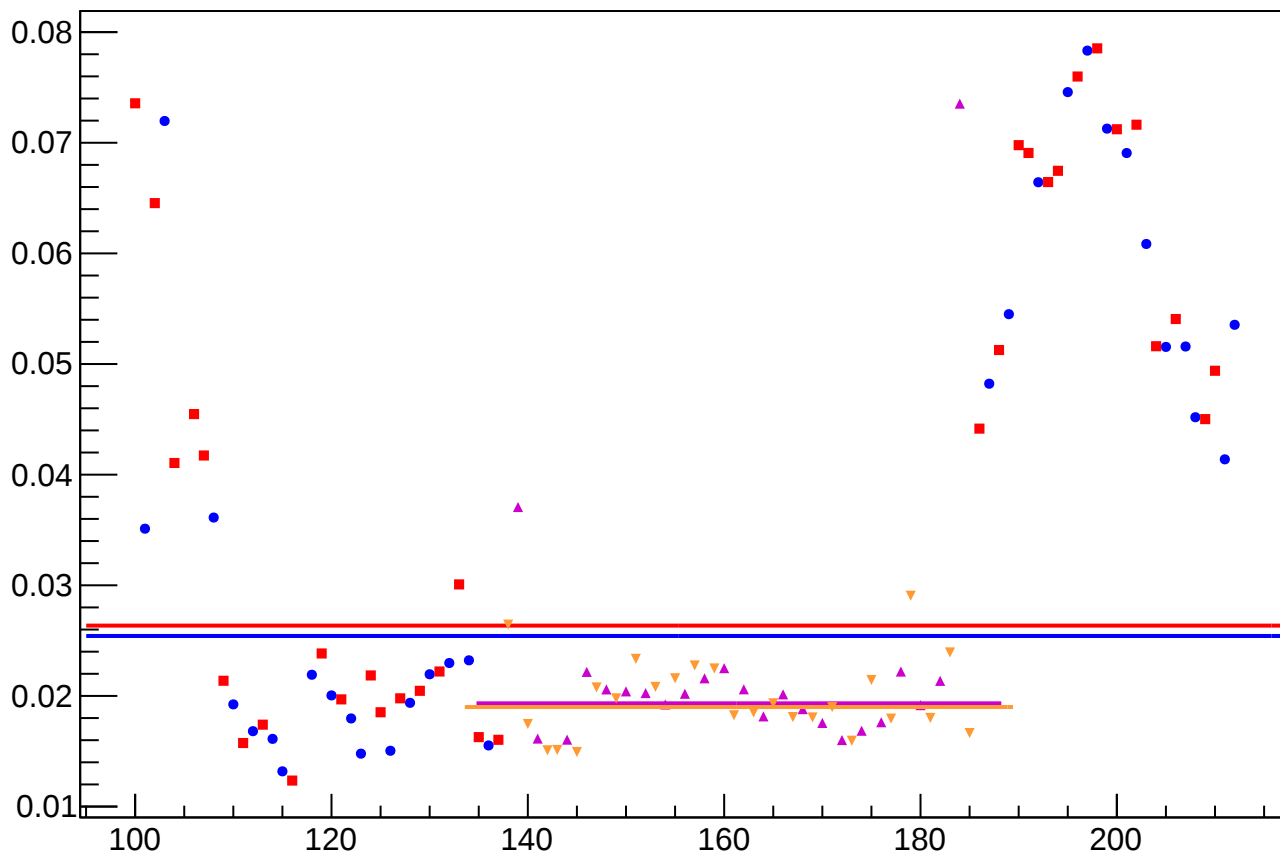
Right: -0.200+/-0.000 χ^2/NDF : 232347222.3/62

In: -0.090+/-0.000 χ^2/NDF : 491171882.5/52

Out: -0.096+/-0.000 χ^2/NDF : 546640939.1/57

All: -0.093+/-0.000 χ^2/NDF : 1038983457.7/111

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 8070004.8/29

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.026+/-0.000 χ^2/NDF : 8338787.5/32

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

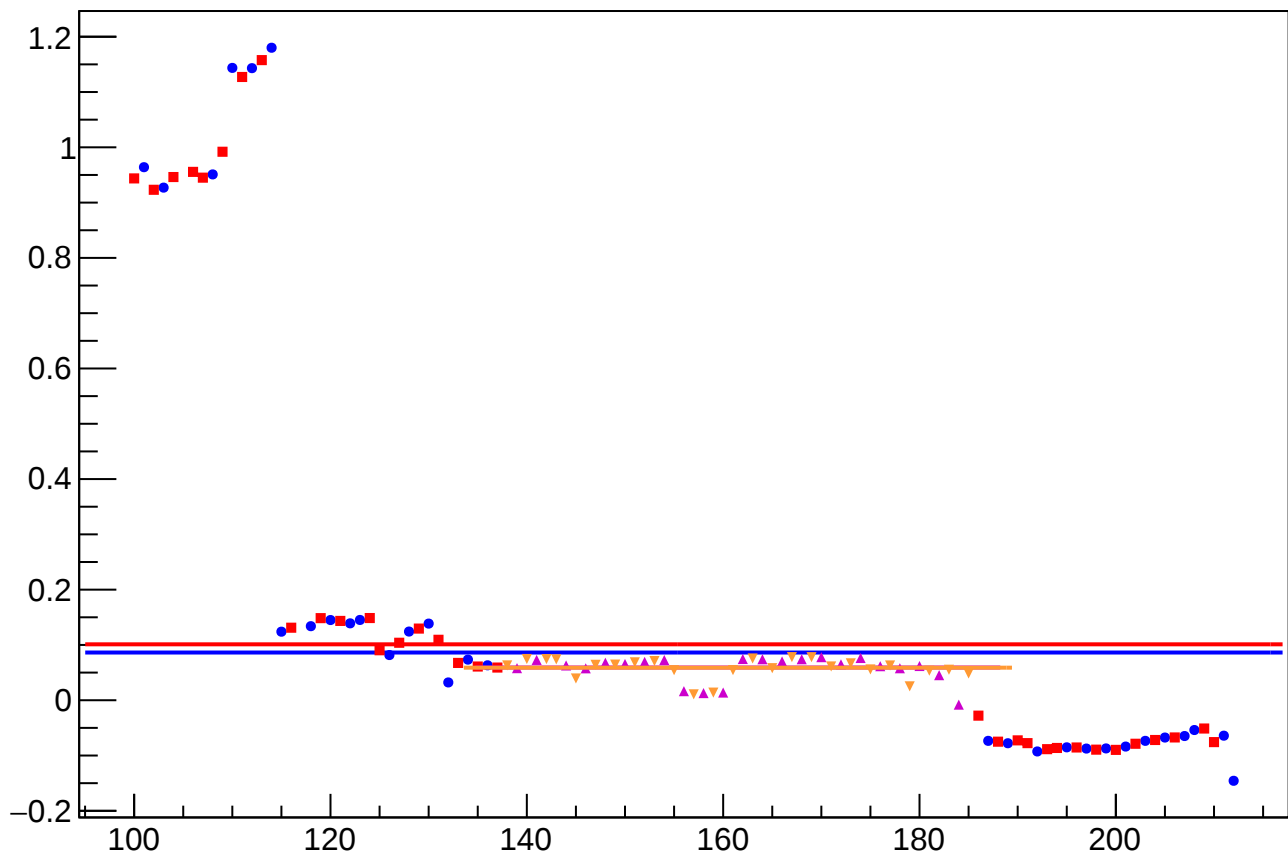
Right: 0.026+/-0.000 χ^2/NDF : 16422759.2/62

In: 0.021+/-0.000 χ^2/NDF : 9800833.0/52

Out: 0.021+/-0.000 χ^2/NDF : 10259926.9/57

All: 0.021+/-0.000 χ^2/NDF : 20061716.6/110

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.086 $\pm$ 0.000 χ^2 /NDF: 8310578231.0/29

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46902918.4/24

Right Out: 0.101 $\pm$ 0.000 χ^2 /NDF: 9167773471.3/32

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

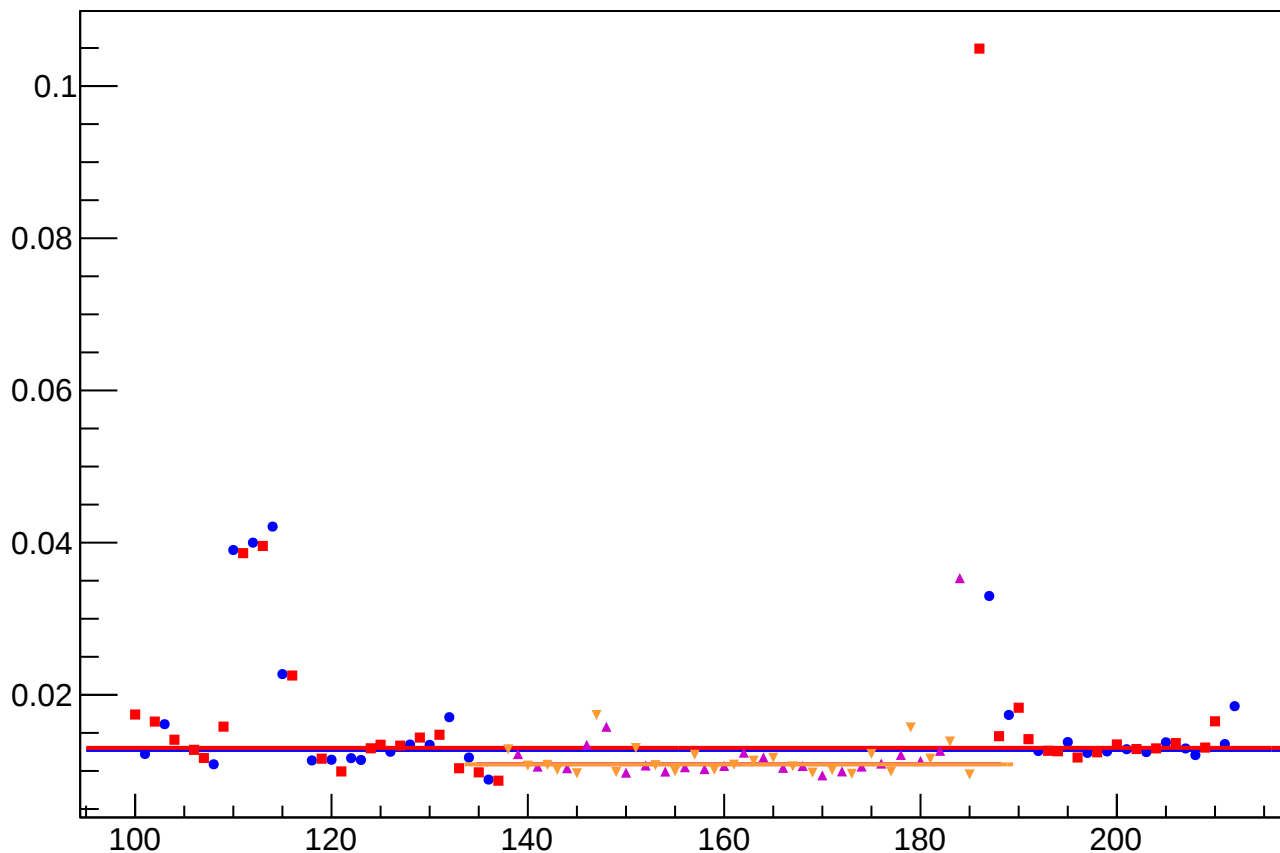
Right: 0.094 $\pm$ 0.000 χ^2 /NDF: 17487899327.4/62

In: 0.070 $\pm$ 0.000 χ^2 /NDF: 8408528761.1/52

Out: 0.075 $\pm$ 0.000 χ^2 /NDF: 9310637648.2/57

All: 0.072 $\pm$ 0.000 χ^2 /NDF: 17721860700.8/111

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1641294.6/29

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1956968.6/32

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

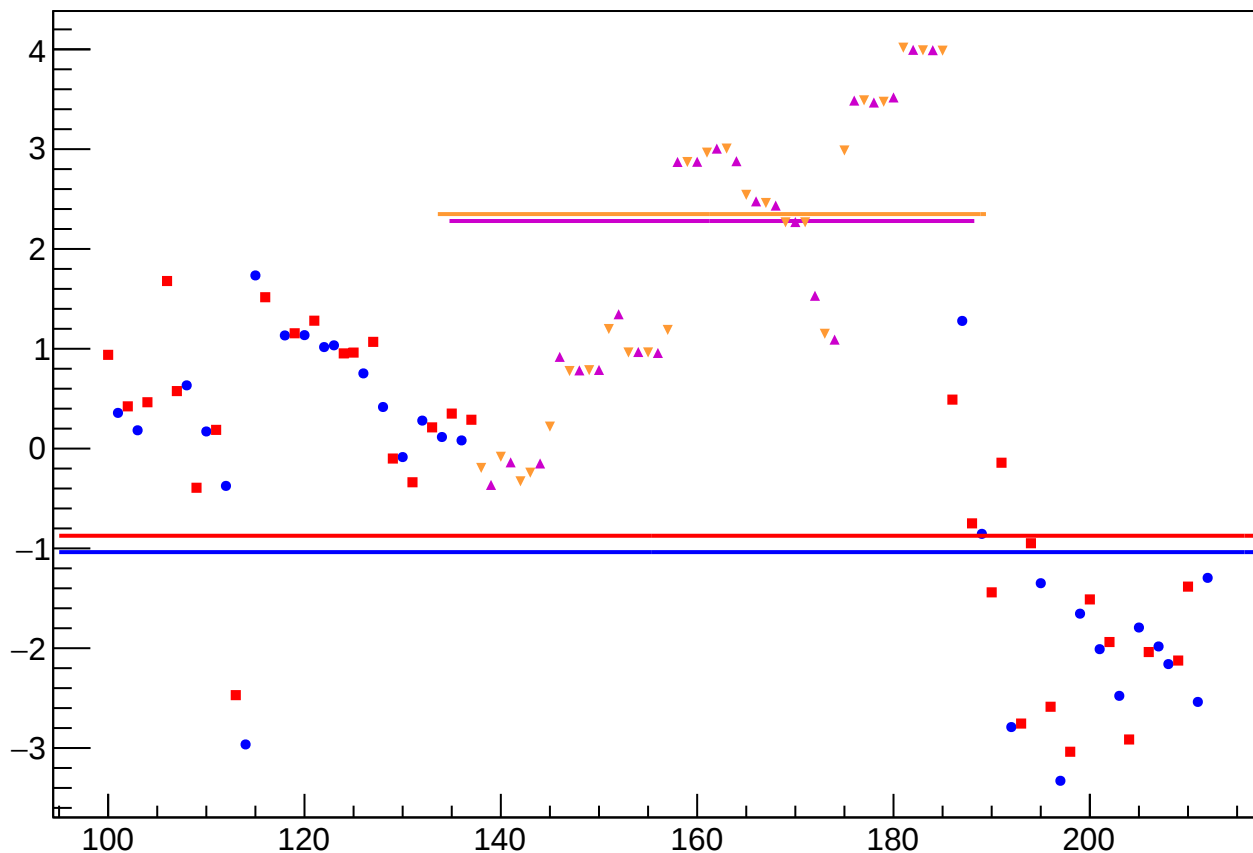
Right: 0.013+/-0.000 χ^2/NDF : 3604787.4/62

In: 0.012+/-0.000 χ^2/NDF : 2544517.4/52

Out: 0.012+/-0.000 χ^2/NDF : 3068957.8/57

All: 0.012+/-0.000 χ^2/NDF : 5614090.3/110

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -1.037 ± 0.000 $\chi^2/\text{NDF}: 7726546838.6/29$

Left Out: 2.349 ± 0.000 $\chi^2/\text{NDF}: 63600066268.3/24$

Right Out: -0.873 ± 0.000 $\chi^2/\text{NDF}: 8158754429.9/32$

Left In: 2.280 ± 0.000 $\chi^2/\text{NDF}: 61444254541.3/22$

Left: 2.314 ± 0.000 $\chi^2/\text{NDF}: 125168787170.9/47$

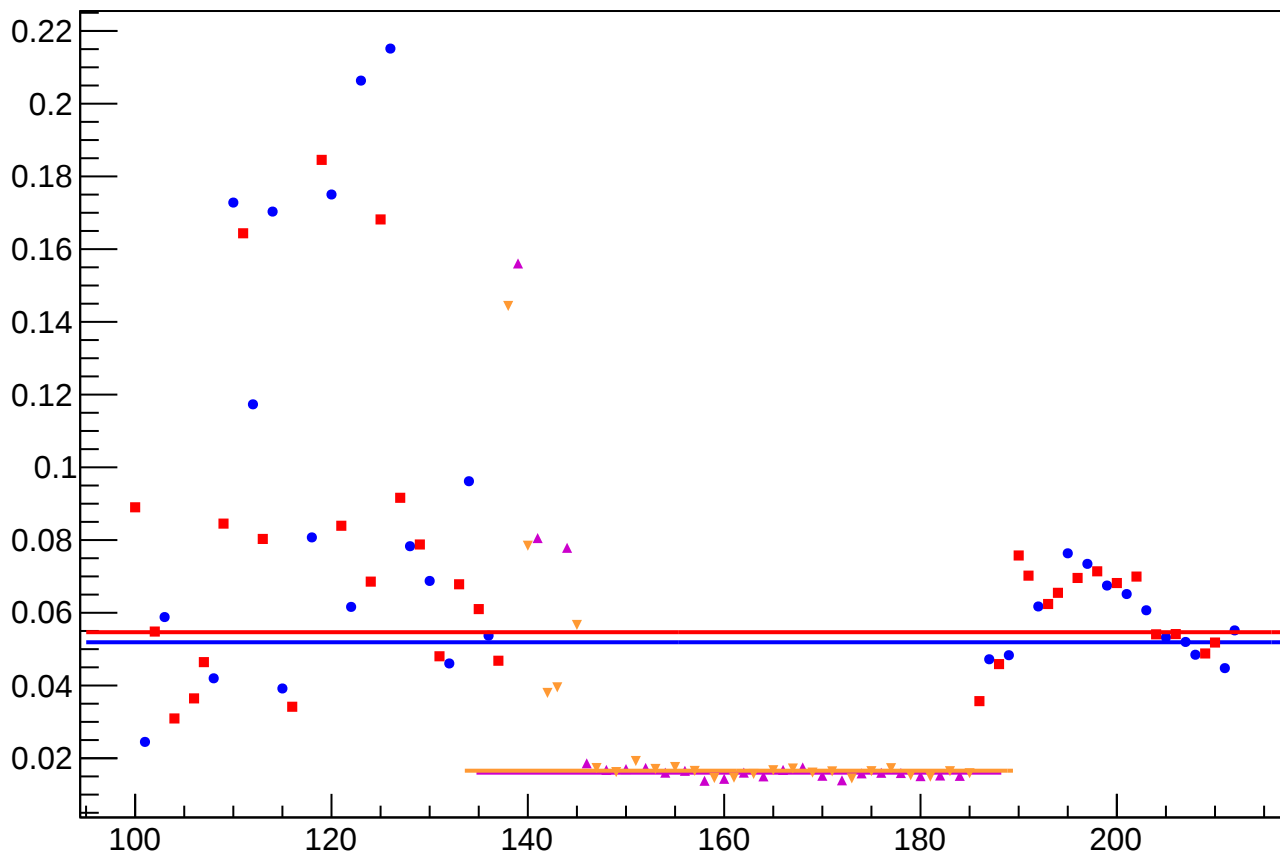
Right: -0.957 ± 0.000 $\chi^2/\text{NDF}: 15943563377.9/62$

In: 2.021 ± 0.000 $\chi^2/\text{NDF}: 114047262535.9/52$

Out: 2.103 ± 0.000 $\chi^2/\text{NDF}: 112441053690.4/57$

All: 2.061 ± 0.000 $\chi^2/\text{NDF}: 226674471876.7$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 3509871.3/29

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2864653.9/32

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

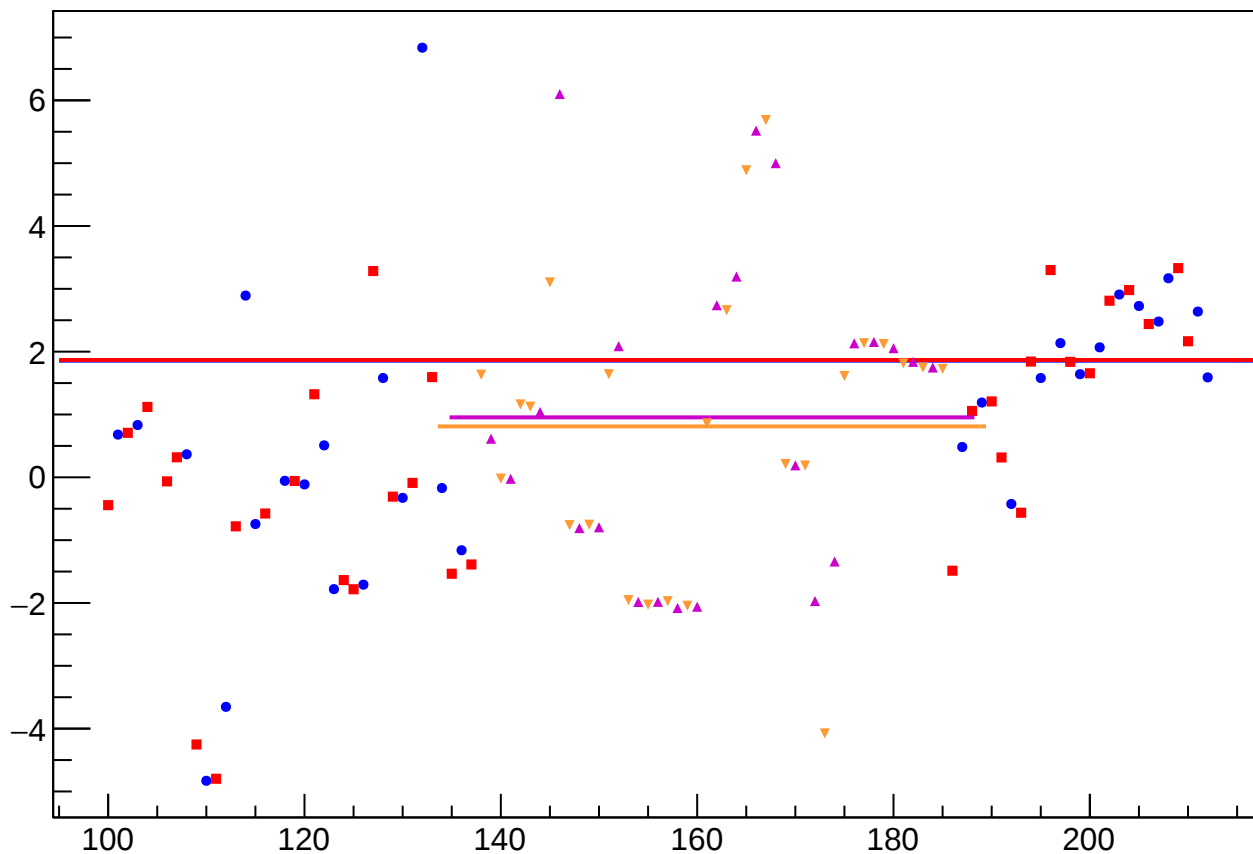
Right: 0.053+/-0.000 χ^2/NDF : 6407677.6/62

In: 0.019+/-0.000 χ^2/NDF : 16463992.6/52

Out: 0.019+/-0.000 χ^2/NDF : 16851860.5/57

All: 0.019+/-0.000 χ^2/NDF : 33340430.9/110

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.857+/-0.000

χ^2/NDF : 38533879083.4/29

Left: 0.883+/-0.000 χ^2/NDF : 1083260277372.9/47

Right: 1.862+/-0.000 χ^2/NDF : 78038383402.8/62

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

In: 1.176+/-0.000 χ^2/NDF : 630461857724.5/52

Right Out: 1.867+/-0.000

χ^2/NDF : 39502985897.3/32

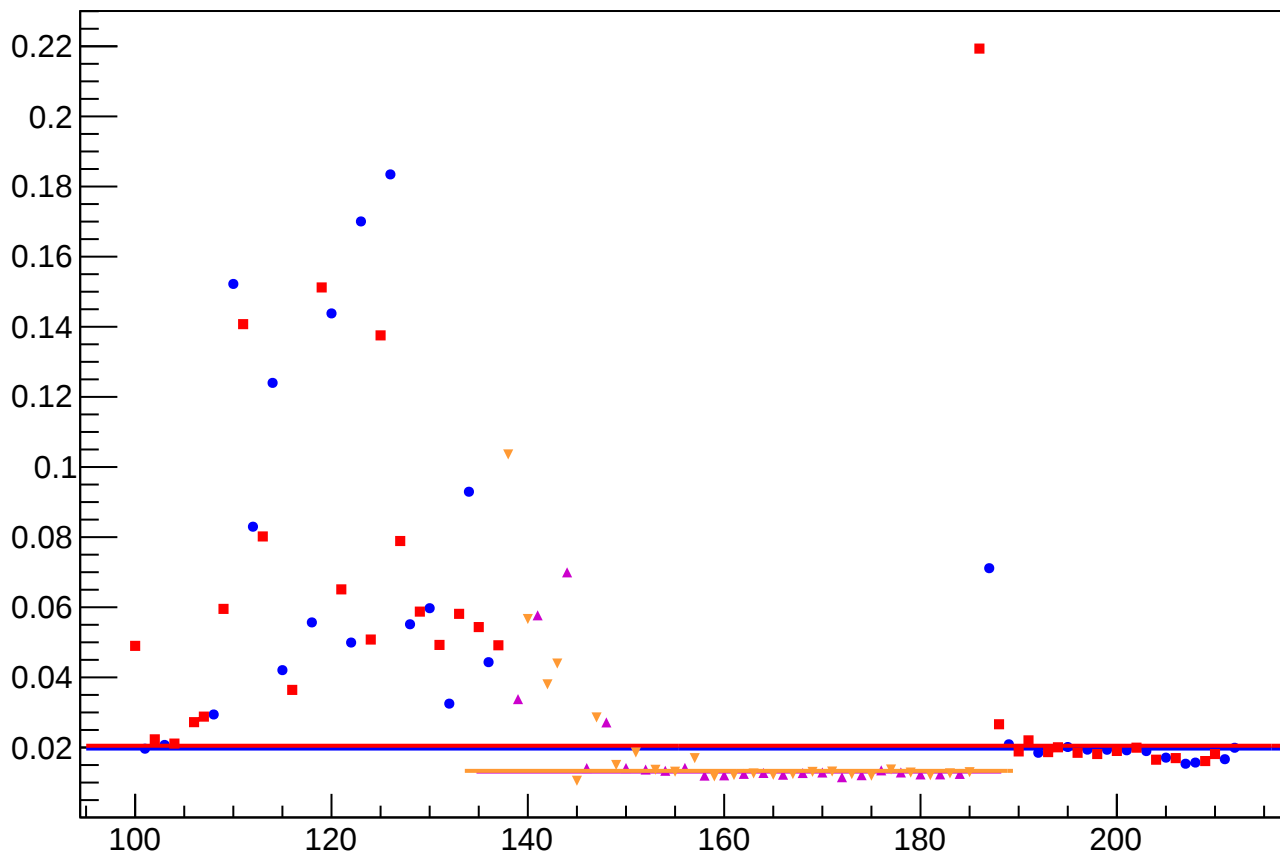
Out: 1.059+/-0.000 χ^2/NDF : 569449398900.7/57

Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

All: 1.118+/-0.000 χ^2/NDF : 1200680743361.0

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4113121.0/29

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5167439.1/32

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

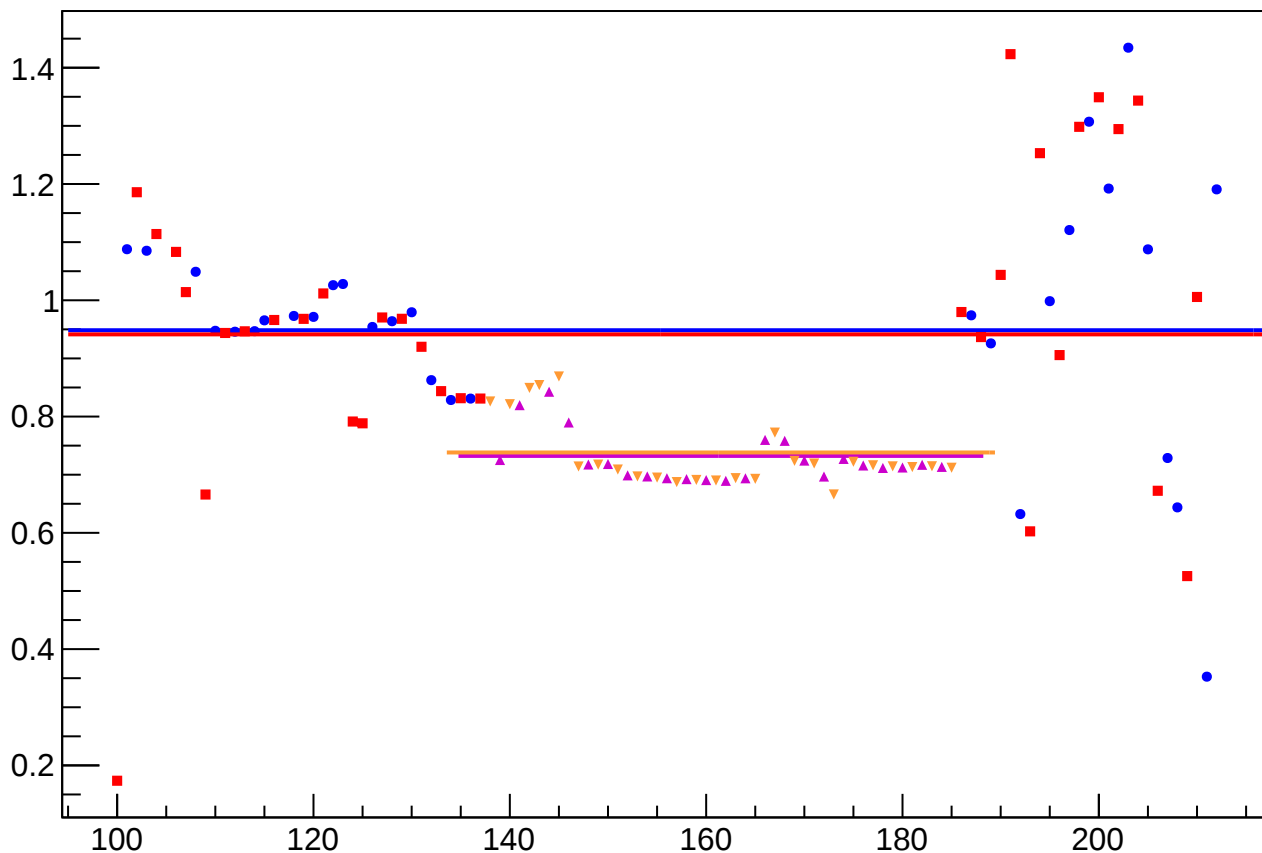
Right: 0.020+/-0.000 χ^2/NDF : 9298184.3/62

In: 0.015+/-0.000 χ^2/NDF :7894760.1/52

Out: 0.015+/-0.000 χ^2/NDF :10052760.2/57

All: 0.015+/-0.000 χ^2/NDF : 17956251.8/110

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.948 $\pm$ 0.000 χ^2 /NDF: 910983712.8/29

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF: 310610047.7/24

Right Out: 0.941 $\pm$ 0.000 χ^2 /NDF: 1131298059.7/32

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

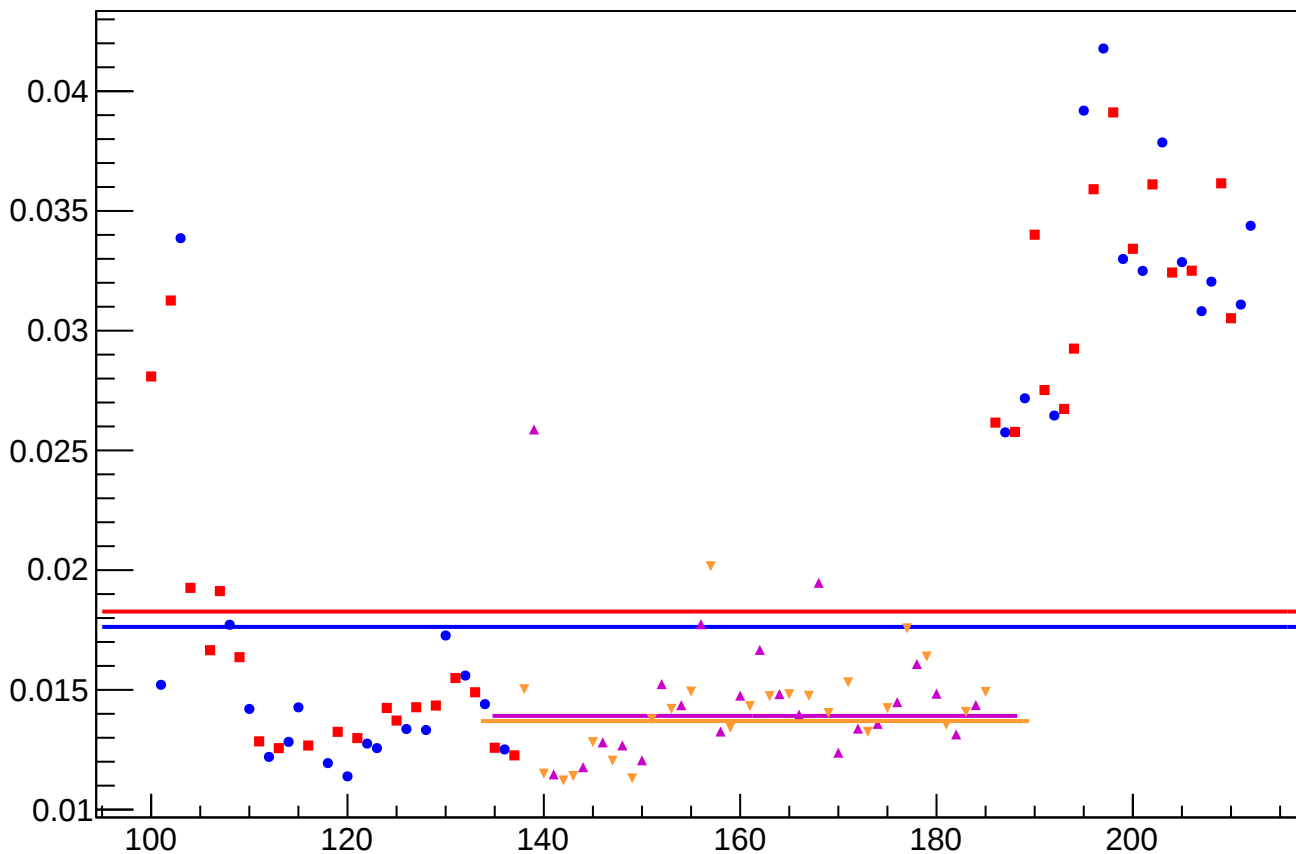
Right: 0.945 $\pm$ 0.000 χ^2 /NDF: 2043251575.5/62

In: 0.802 $\pm$ 0.000 χ^2 /NDF: 2295351866.1/52

Out: 0.800 $\pm$ 0.000 χ^2 /NDF: 2535558330.1/57

All: 0.801 $\pm$ 0.000 χ^2 /NDF: 4831084449.0/111

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 5131593.0/29

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.018+/-0.000 χ^2/NDF : 4536115.0/32

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

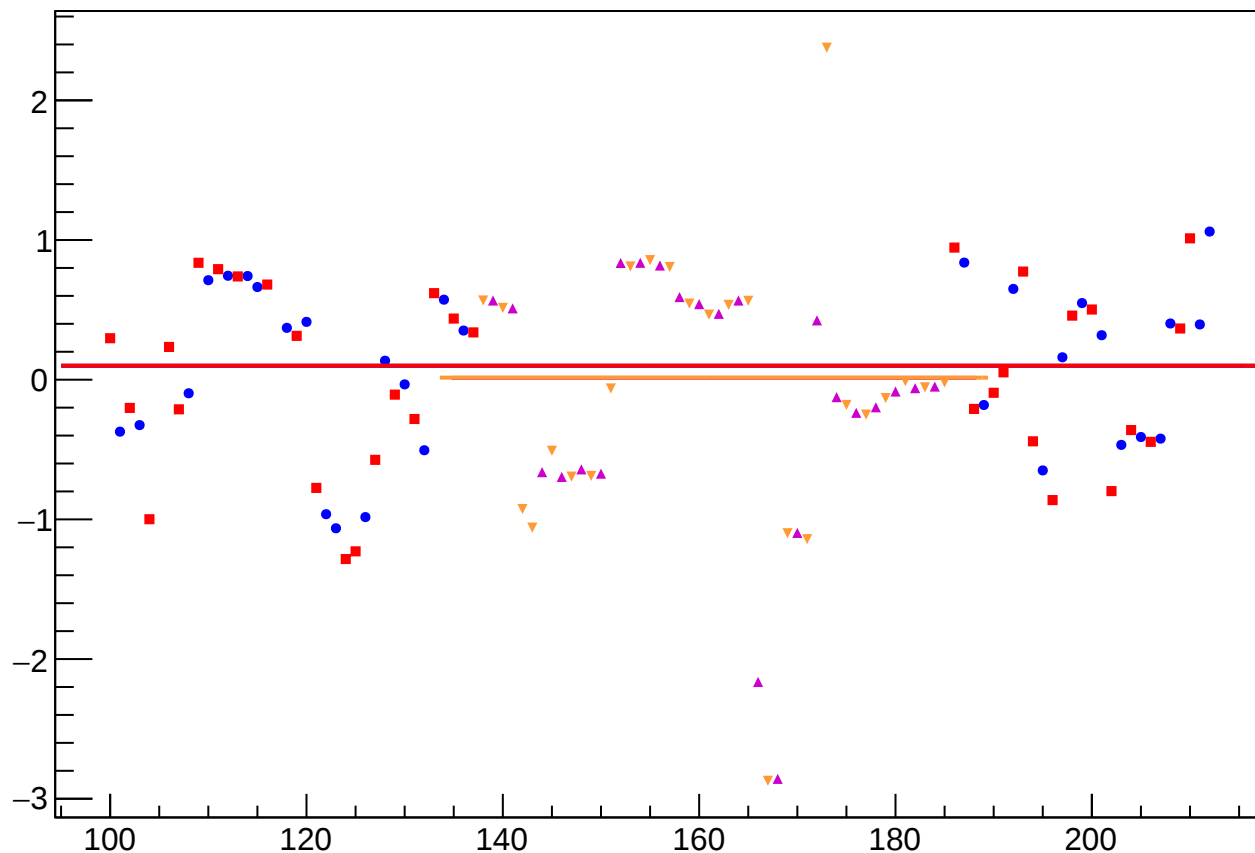
Right: 0.018+/-0.000 χ^2/NDF : 9683454.3/62

In: 0.015+/-0.000 χ^2/NDF : 6643709.0/52

Out: 0.015+/-0.000 χ^2/NDF : 6175283.9/57

All: 0.015+/-0.000 χ^2/NDF : 12819018.2/110

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.100+/-0.000

χ^2/NDF : 28085881555.1/29

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

Right: 0.100+/-0.000 χ^2/NDF : 65900877791.9/62

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

In: 0.054+/-0.000 χ^2/NDF : 107909491728.9/52

Right Out: 0.100+/-0.000

χ^2/NDF : 37814960921.2/32

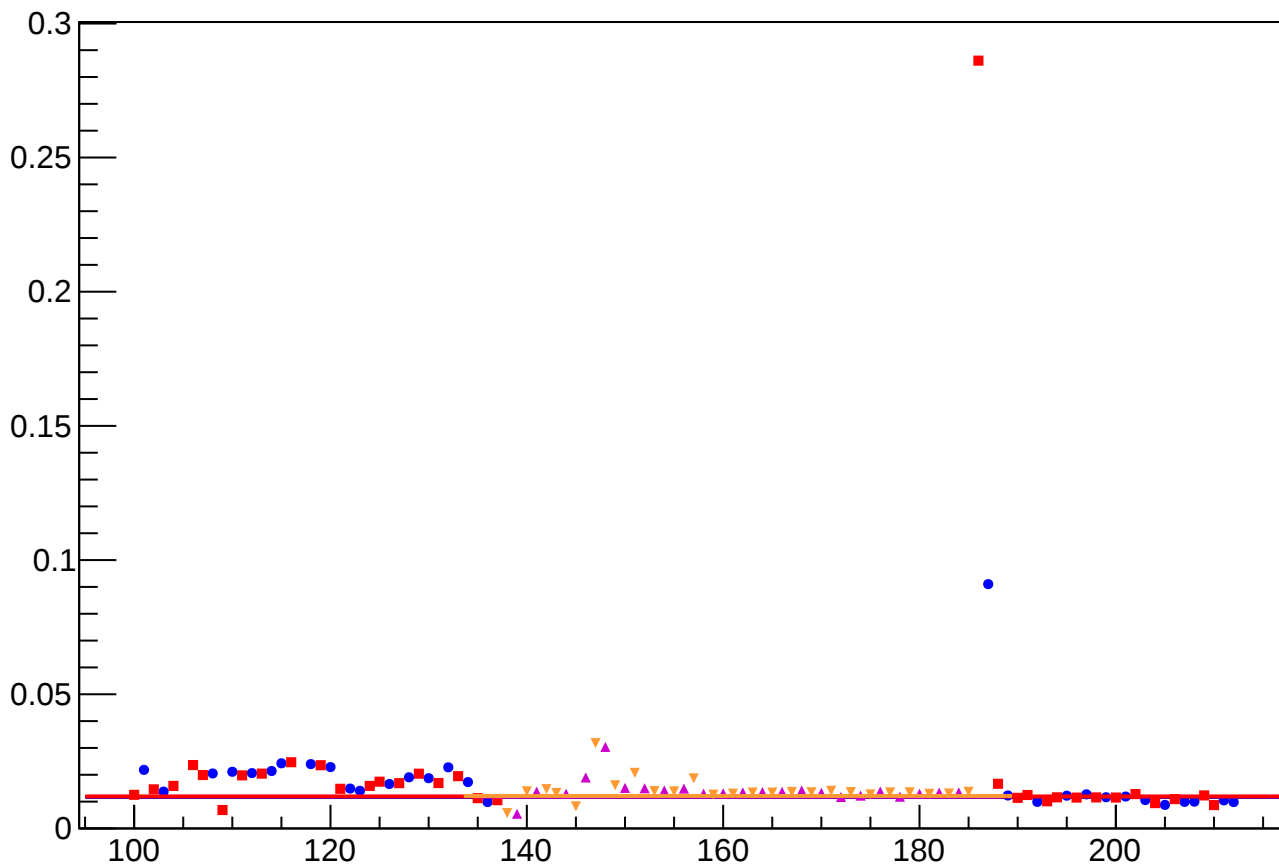
Out: 0.054+/-0.000 χ^2/NDF : 134273748002.6/57

Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

All: 0.054+/-0.000 χ^2/NDF : 242183245618.9

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2400823.7/29

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2876721.8/32

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

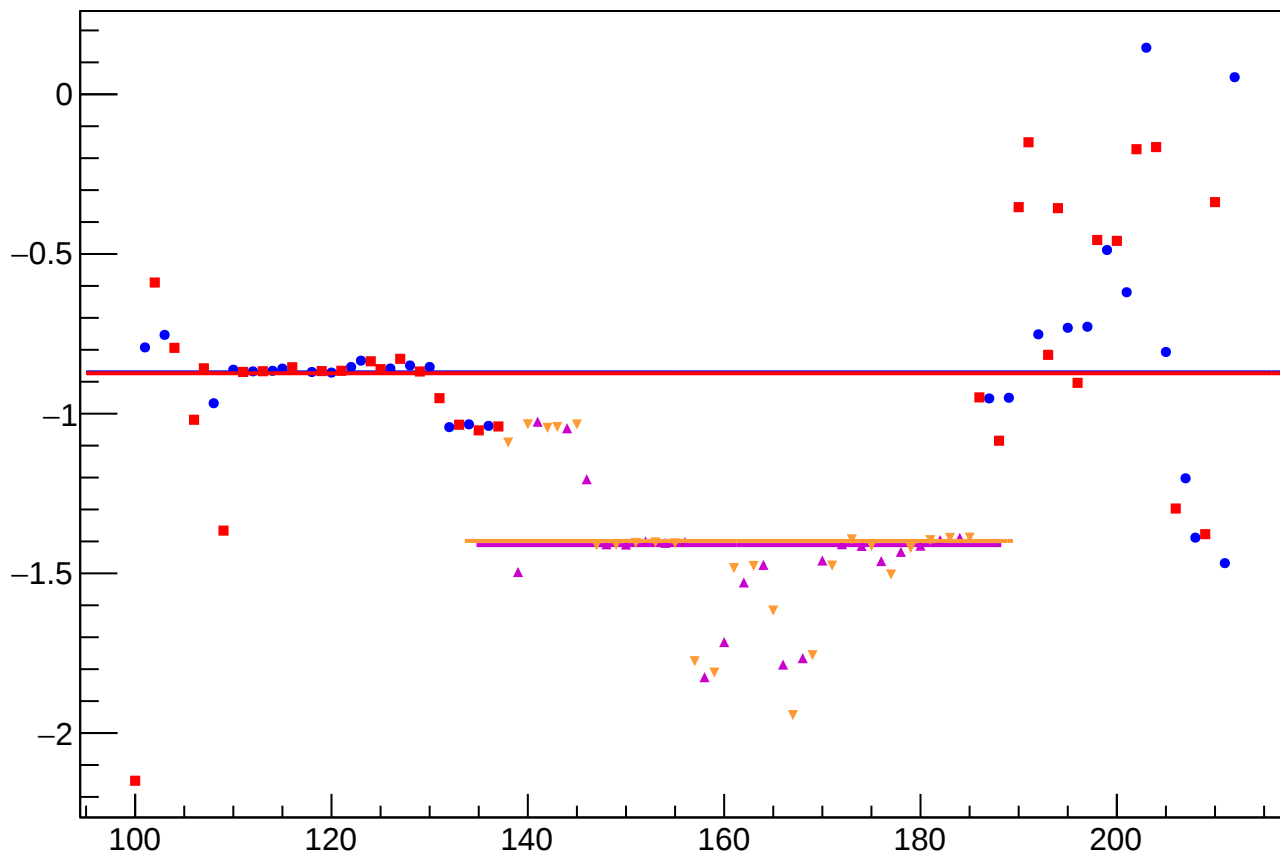
Right: 0.012+/-0.000 χ^2/NDF : 5281611.7/62

In: 0.012+/-0.000 χ^2/NDF :5511269.2/52

Out: 0.012+/-0.000 χ^2/NDF :5988098.9/57

All: 0.012+/-0.000 χ^2/NDF : 11507433.0/110

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.871 ± 0.000 χ^2/NDF : 338405694.9/29

Left Out: -1.398 ± 0.000 χ^2/NDF : 734579404.3/24

Right Out: -0.873 ± 0.000 χ^2/NDF : 449045109.1/32

Left In: -1.412 ± 0.000 χ^2/NDF : 512629872.4/22

Left: -1.405 ± 0.000 χ^2/NDF : 1248268857.1/47

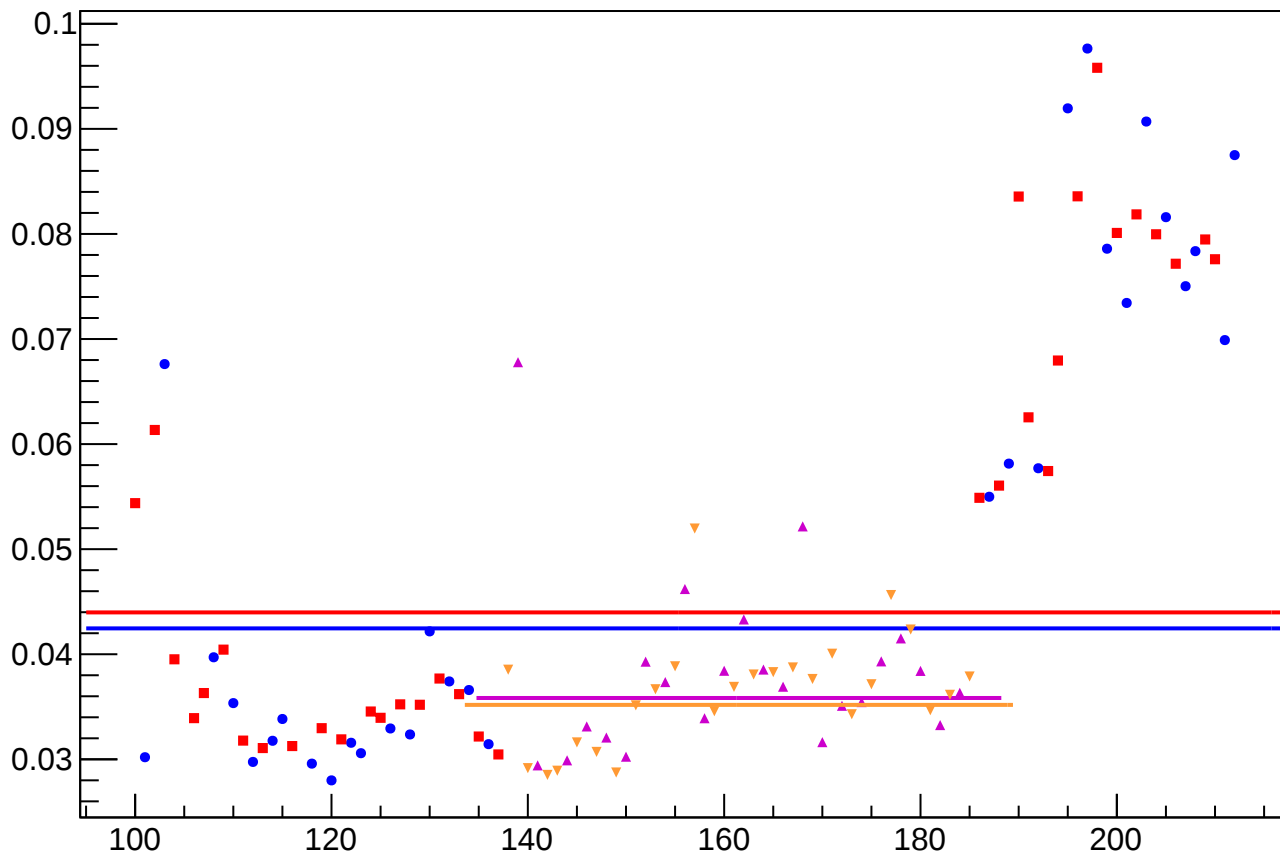
Right: -0.872 ± 0.000 χ^2/NDF : 787479693.8/62

In: -1.216 ± 0.000 χ^2/NDF : 2119101484.8/52

Out: -1.219 ± 0.000 χ^2/NDF : 2407864526.7/57

All: -1.217 ± 0.000 χ^2/NDF : 4527057836.4/101

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.042+/-0.000 χ^2/NDF : 4871396.3/29

Left Out: 0.035+/-0.000 χ^2/NDF : 597886.0/24

Right Out: 0.044+/-0.000 χ^2/NDF : 4045408.1/32

Left In: 0.036+/-0.000 χ^2/NDF : 890993.5/22

Left: 0.035+/-0.000 χ^2/NDF : 1494255.9/47

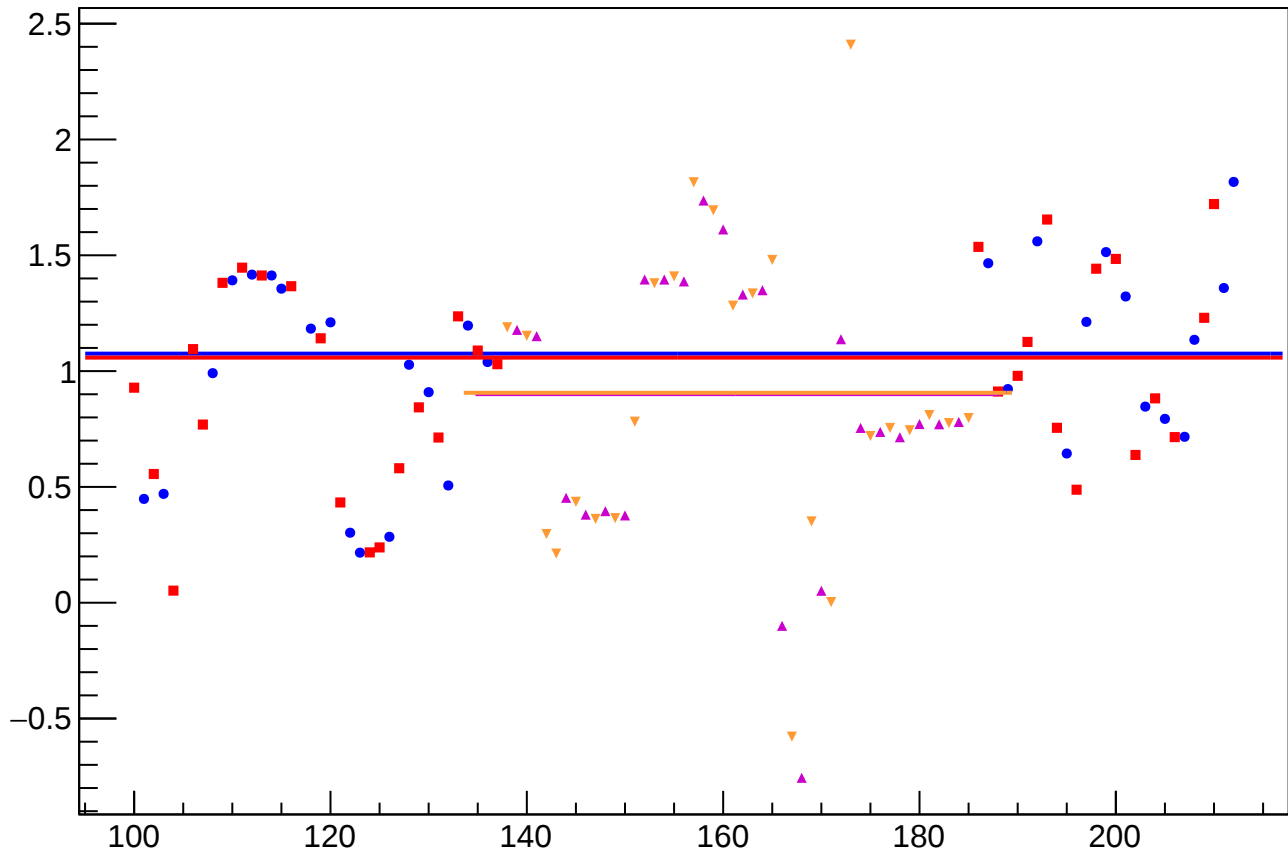
Right: 0.043+/-0.000 χ^2/NDF : 8932463.4/62

In: 0.038+/-0.000 χ^2/NDF : 6142632.9/52

Out: 0.038+/-0.000 χ^2/NDF : 5331467.6/57

All: 0.038+/-0.000 χ^2/NDF : 11474135.5/110

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.075+/-0.000

χ^2/NDF : 36825455740.0/29

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 1.068+/-0.000 χ^2/NDF : 74927538600.3/62

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 0.997+/-0.000 χ^2/NDF : 107278089754.8/52

Right Out: 1.058+/-0.000

χ^2/NDF : 38066889799.9/32

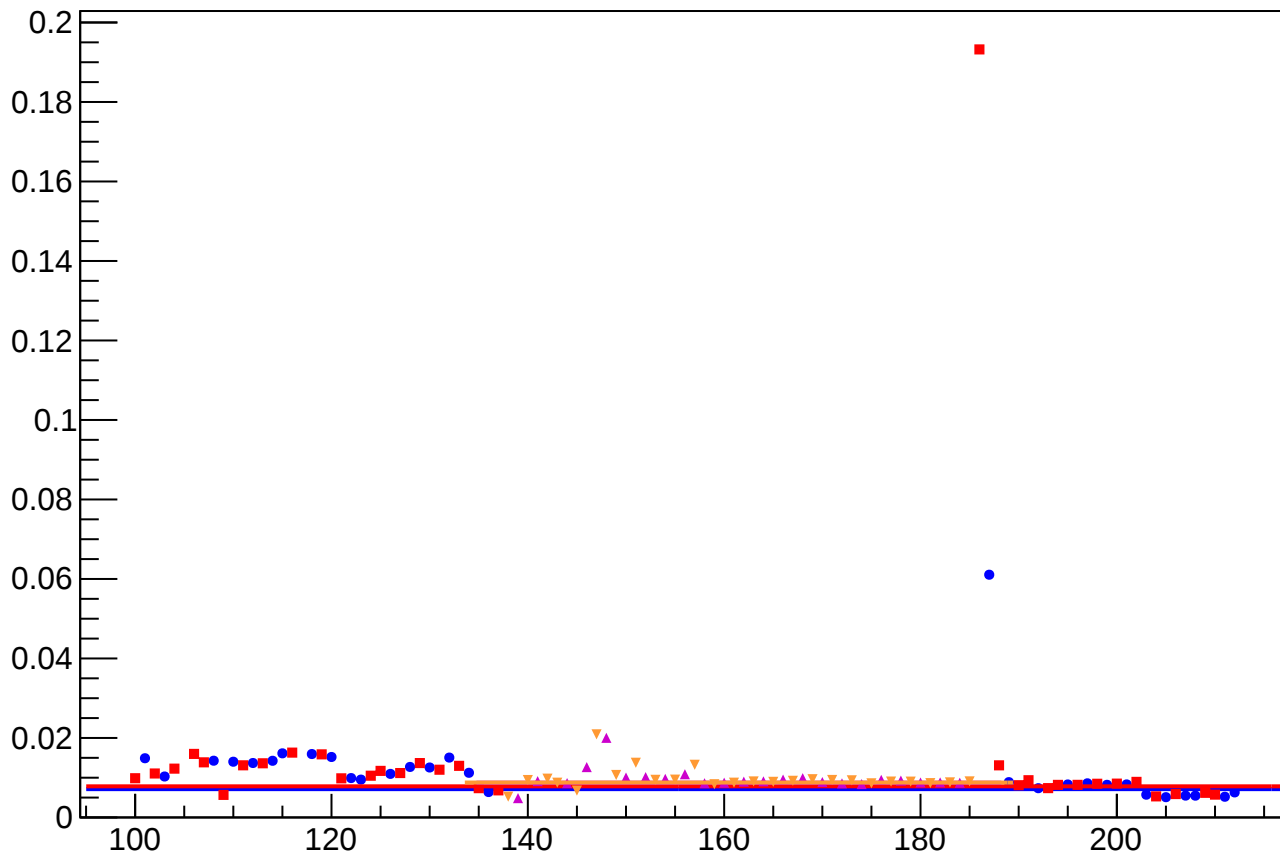
Out: 0.983+/-0.000 χ^2/NDF : 124705999832.7/57

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 0.990+/-0.000 χ^2/NDF : 232034696258.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 3417179.7/29

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1698526.2/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 3442238.4/32

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:1669983.7/22

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 3369008.8/47

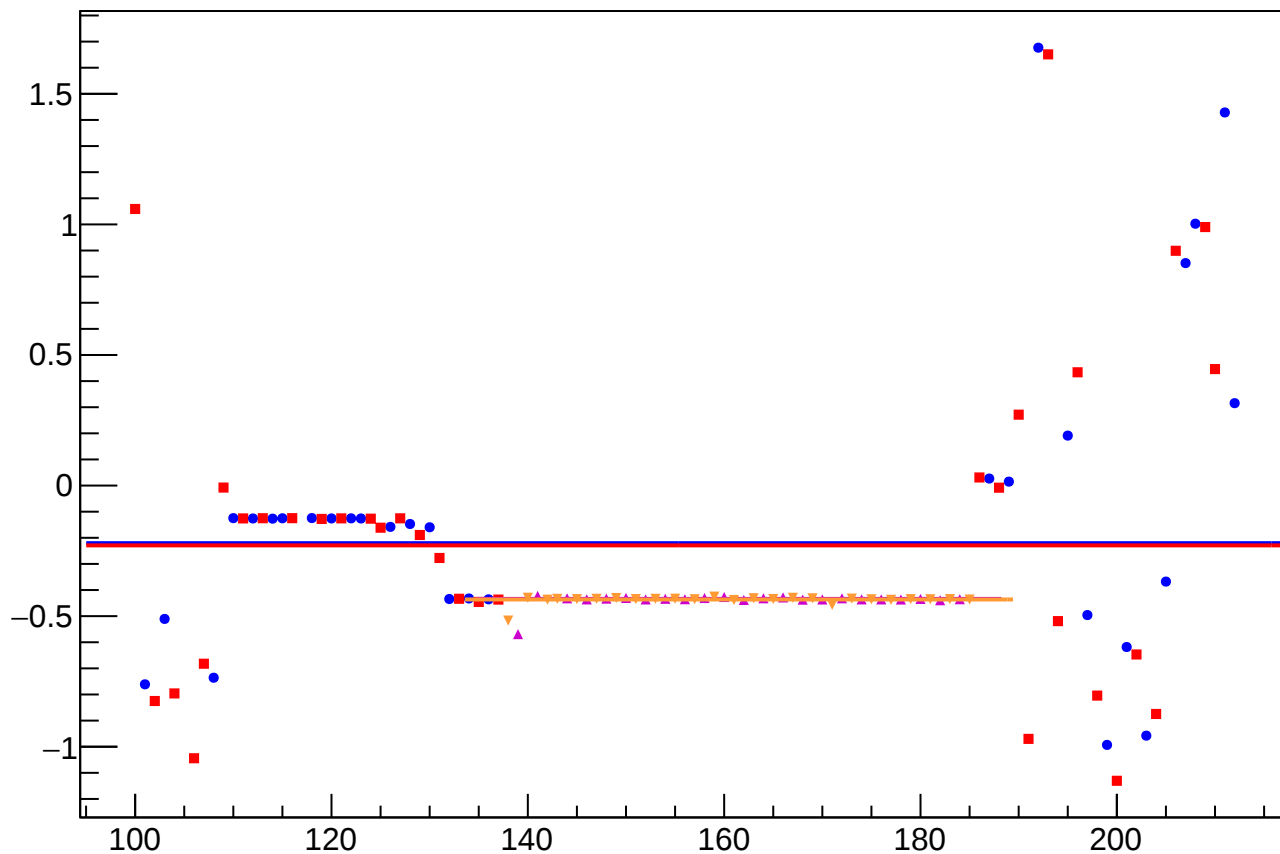
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 6978162.0/62

In: 0.008 $\pm$ 0.000 χ^2 /NDF:5685501.3/52

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:5340327.2/57

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 11122992.1/110

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.221 ± 0.000 $\chi^2/\text{NDF}: 4752471975.3/29$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28776503.9/24$

Right Out: -0.229 ± 0.000 $\chi^2/\text{NDF}: 3413693452.9/32$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 20164730.3/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 49321098.5/47$

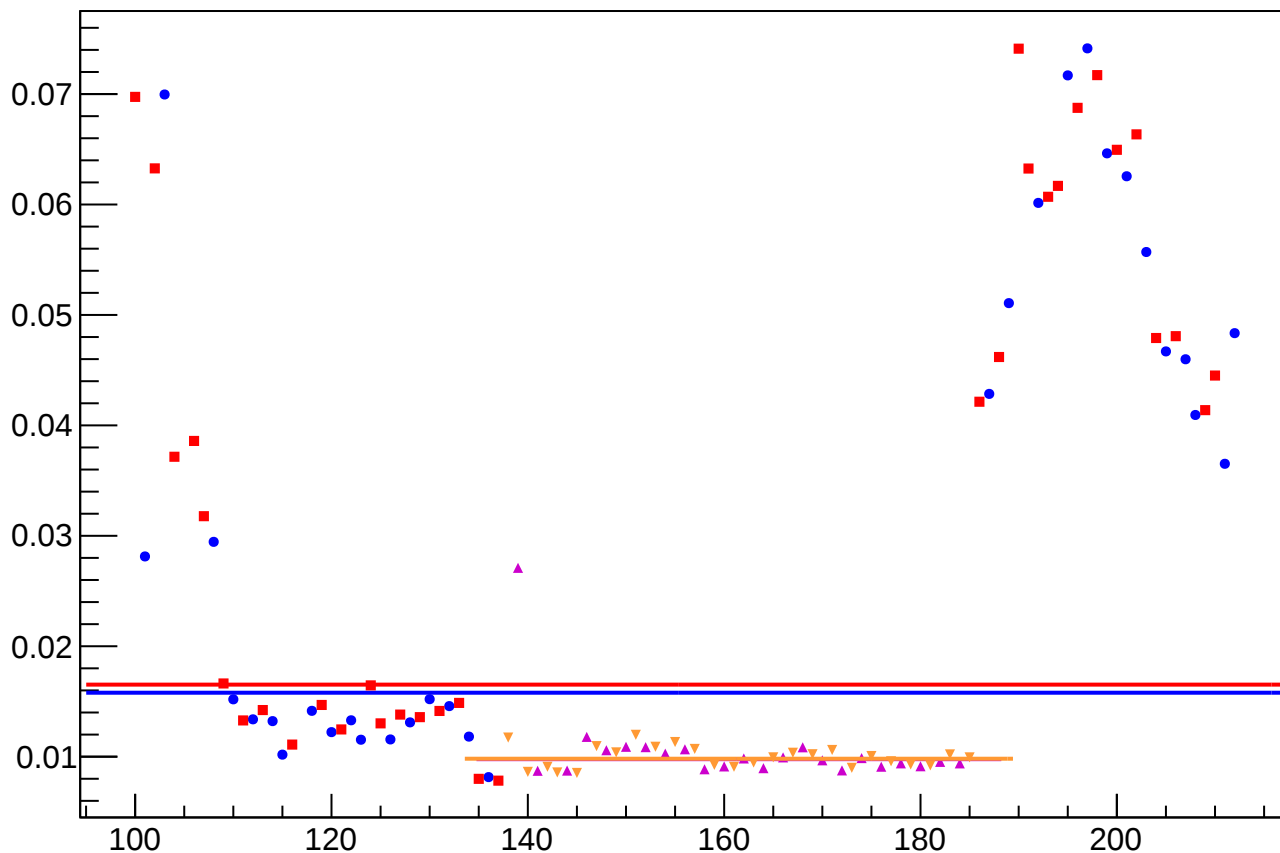
Right: -0.225 ± 0.000 $\chi^2/\text{NDF}: 8167363201.4/62$

In: -0.394 ± 0.000 $\chi^2/\text{NDF}: 6064714809.9/52$

Out: -0.401 ± 0.000 $\chi^2/\text{NDF}: 4616238250.0/57$

All: -0.398 ± 0.000 $\chi^2/\text{NDF}: 10685429847.7/111$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 11336912.7/29

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.017+/-0.000 χ^2/NDF : 11652646.4/32

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

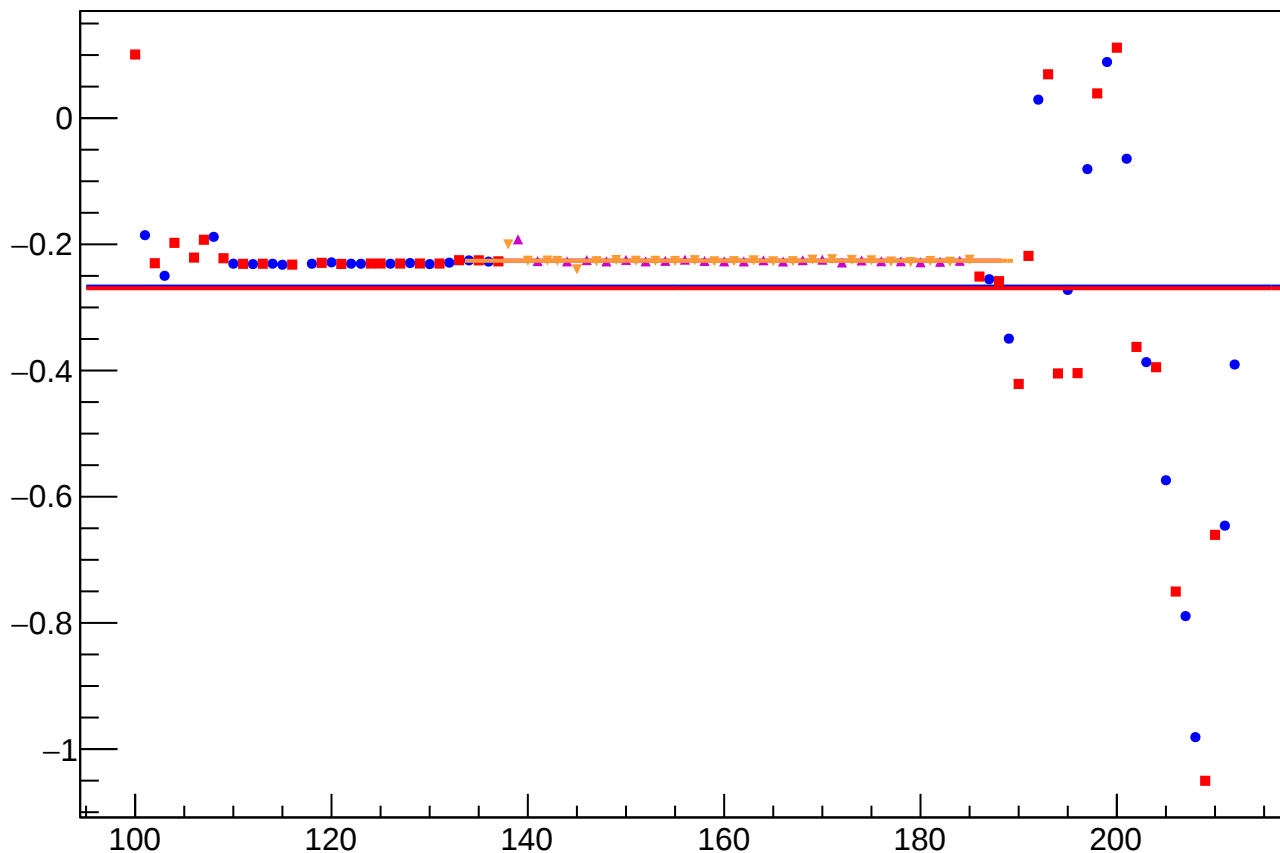
Right: 0.016+/-0.000 χ^2/NDF : 23007743.2/62

In: 0.011+/-0.000 χ^2/NDF : 14179846.4/52

Out: 0.011+/-0.000 χ^2/NDF : 14386508.3/57

All: 0.011+/-0.000 χ^2/NDF : 28566990.2/110

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.267 $\pm$ 0.000 χ^2 /NDF: 24924085723.9/29

Left Out: -0.226 $\pm$ 0.000 χ^2 /NDF: 21207366.3/24

Right Out: -0.270 $\pm$ 0.000 χ^2 /NDF: 25182576604.4/32

Left In: -0.226 $\pm$ 0.000 χ^2 /NDF: 13717302.5/22

Left: -0.226 $\pm$ 0.000 χ^2 /NDF: 34951372.2/47

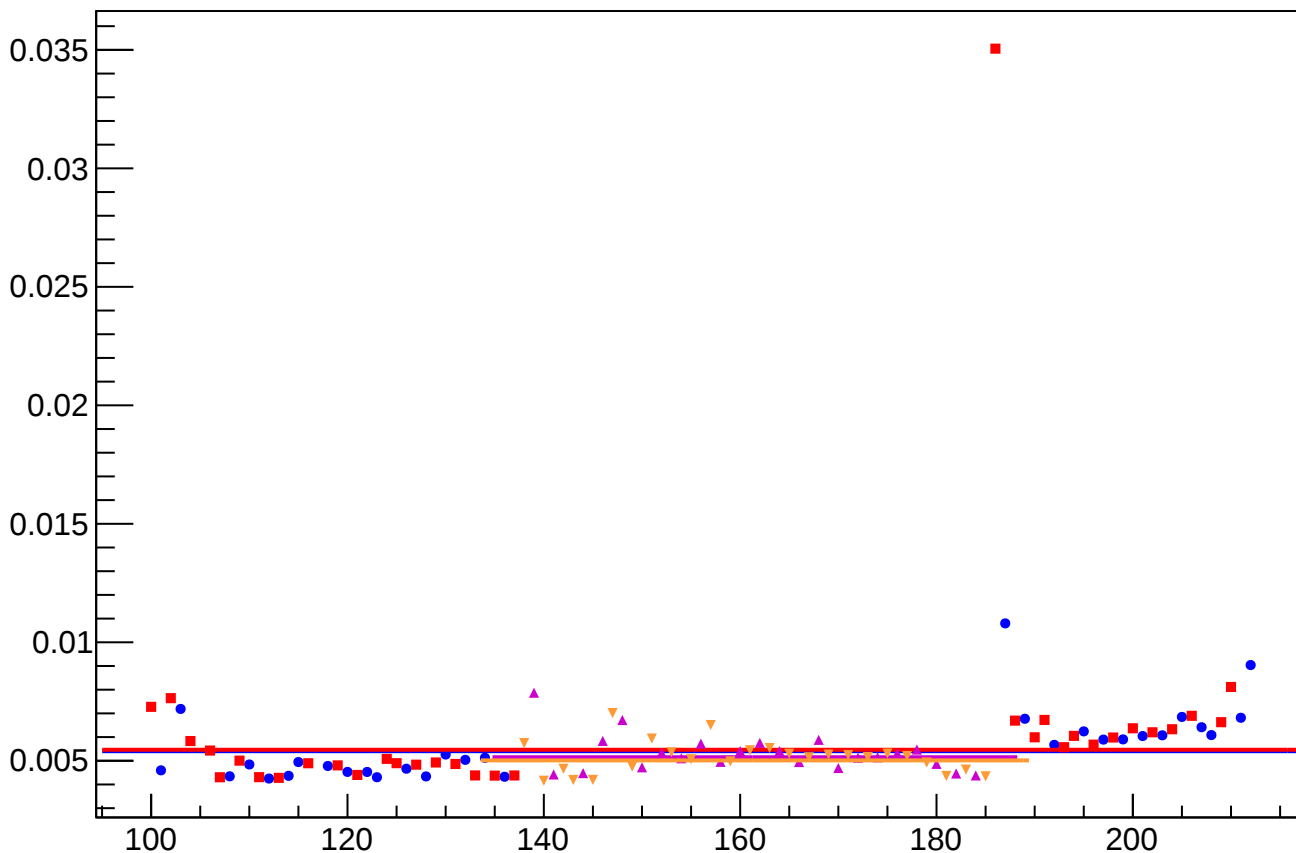
Right: -0.268 $\pm$ 0.000 χ^2 /NDF: 50108377319.3/62

In: -0.244 $\pm$ 0.000 χ^2 /NDF: 25401237014.0/52

Out: -0.244 $\pm$ 0.000 χ^2 /NDF: 25748266986.8/57

All: -0.244 $\pm$ 0.000 χ^2 /NDF: 51149564061.6/110

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1068063.9/29

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1447236.4/32

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

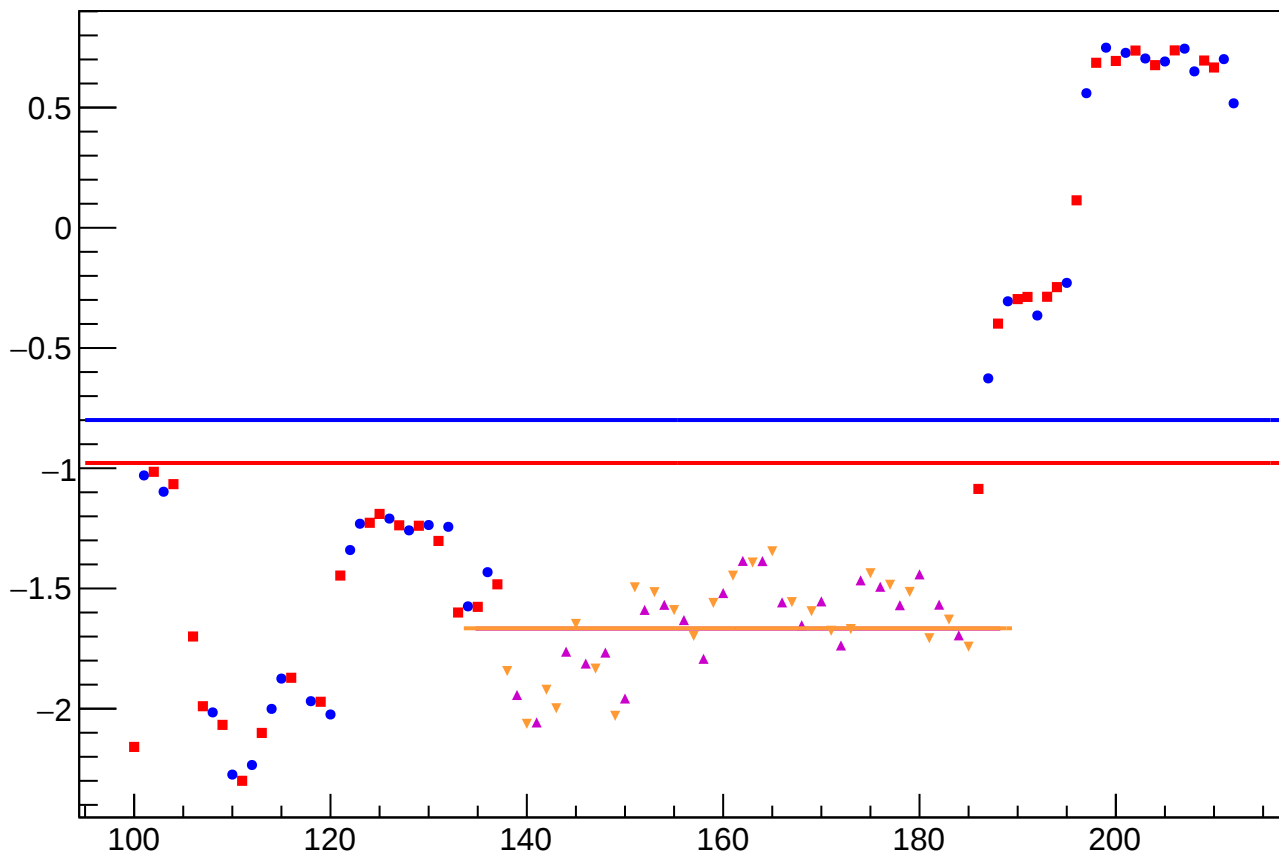
Right: 0.005+/-0.000 χ^2/NDF : 2517041.0/62

In: 0.005+/-0.000 χ^2/NDF : 1607779.1/52

Out: 0.005+/-0.000 χ^2/NDF : 2095417.2/57

All: 0.005+/-0.000 χ^2/NDF : 3707119.6/110

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.800 ± 0.000

χ^2/NDF : 221268644489.3/29

Left: -1.666 ± 0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666 ± 0.000

χ^2/NDF : 18368038680.8/24

Right: -0.895 ± 0.000

χ^2/NDF : 464594884234.7/62

Right Out: -0.978 ± 0.000

χ^2/NDF : 239617267513.7/32

In: -1.367 ± 0.000

χ^2/NDF : 343435088222.2/52

Out: -1.418 ± 0.000

χ^2/NDF : 333210721183.2/57

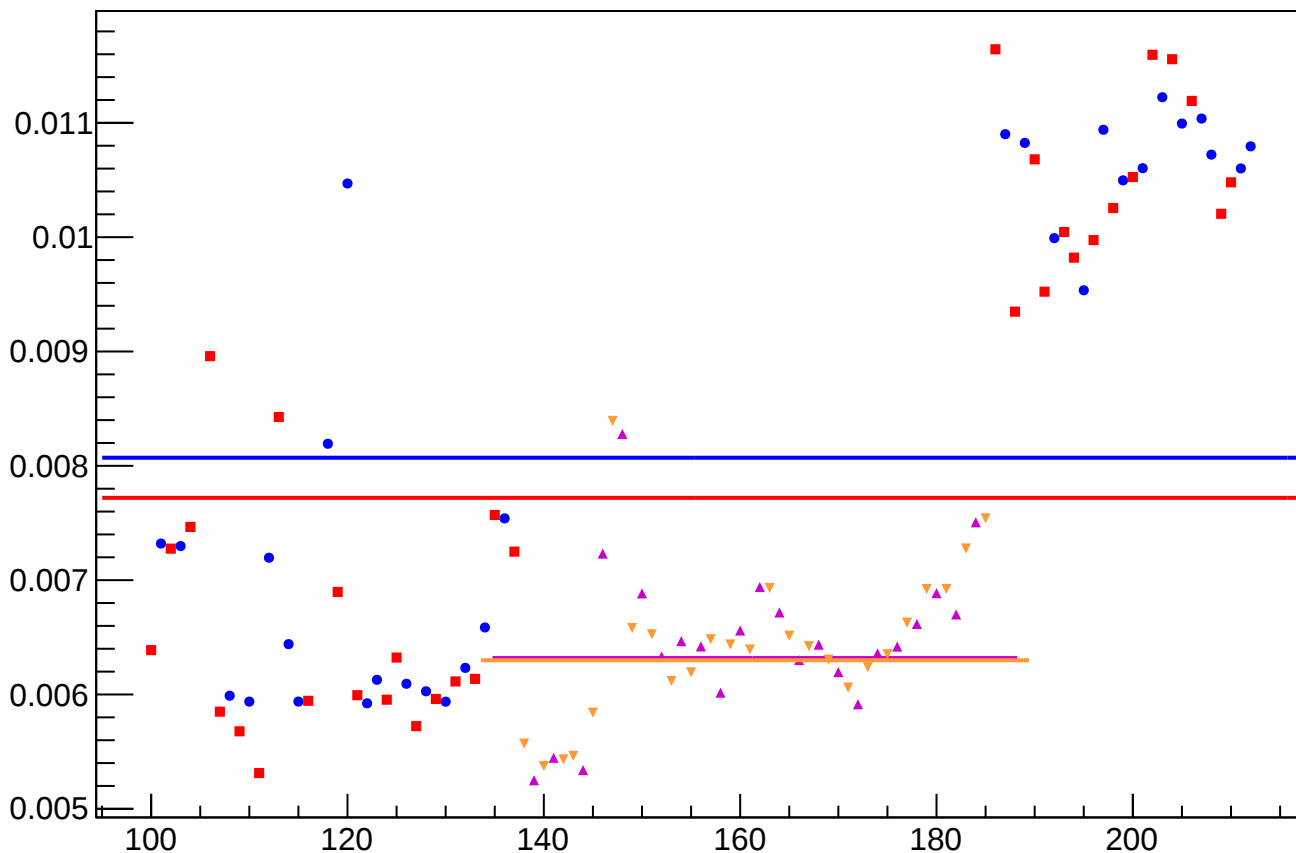
Left In: -1.667 ± 0.000

χ^2/NDF : 14615453869.3/22

All: -1.394 ± 0.000

χ^2/NDF : 677495273816.8

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1840625.8/29

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2102442.8/32

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

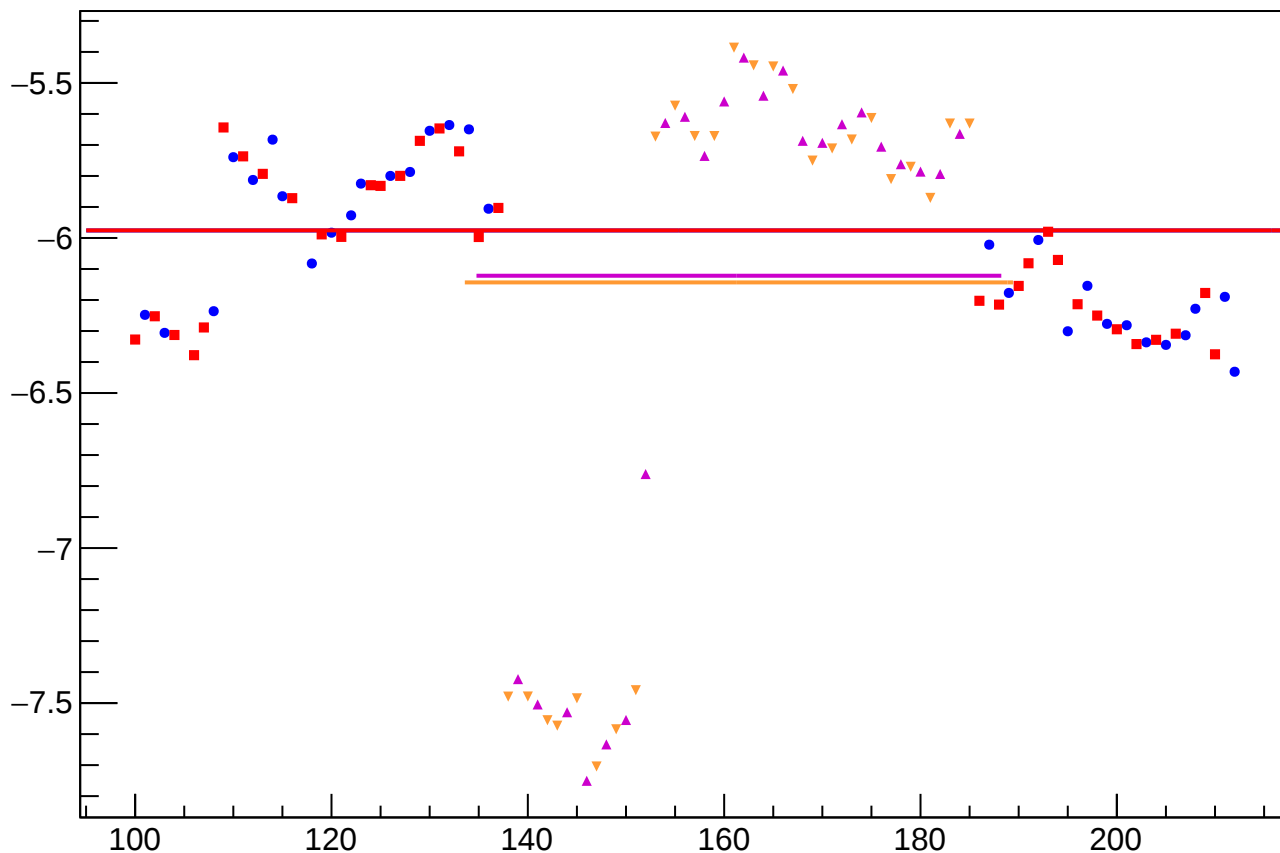
Right: 0.008+/-0.000 χ^2/NDF : 3971739.6/62

In: 0.007+/-0.000 χ^2/NDF :3052786.7/52

Out: 0.007+/-0.000 χ^2/NDF :3057411.1/57

All: 0.007+/-0.000 χ^2/NDF : 6118621.3/110

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.976+/-0.000 χ^2/NDF : 16186930243.6/29

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.975+/-0.000 χ^2/NDF : 17099545159.2/32

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

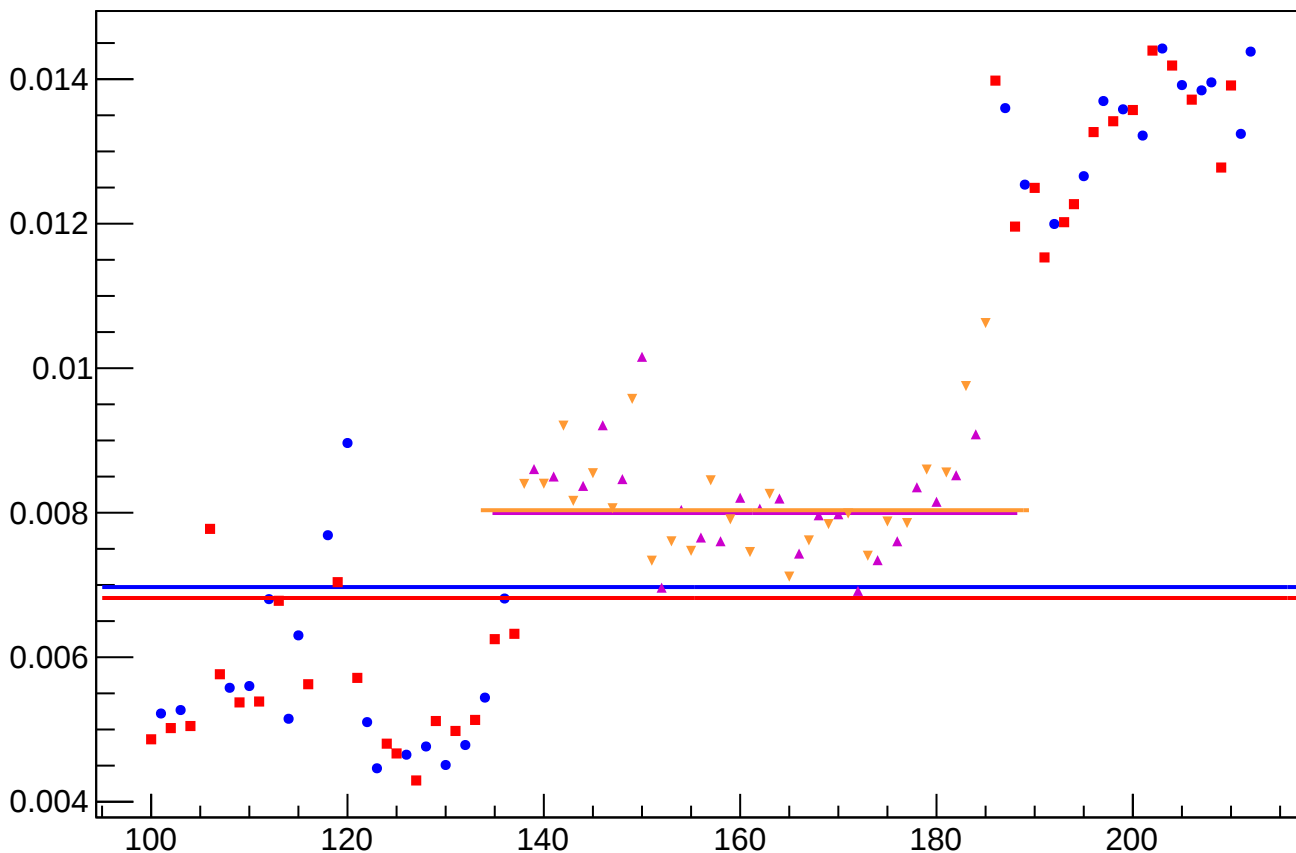
Right: -5.976+/-0.000 χ^2/NDF : 33286491764.5/62

In: -6.048+/-0.000 χ^2/NDF : 178759386595.3/52

Out: -6.056+/-0.000 χ^2/NDF : 206575716923.5/57

All: -6.053+/-0.000 χ^2/NDF : 385351580142.3

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 5501983.8/29

Left Out: 0.008+/-0.000 χ^2/NDF : 205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 5405207.0/32

Left In: 0.008+/-0.000 χ^2/NDF : 220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

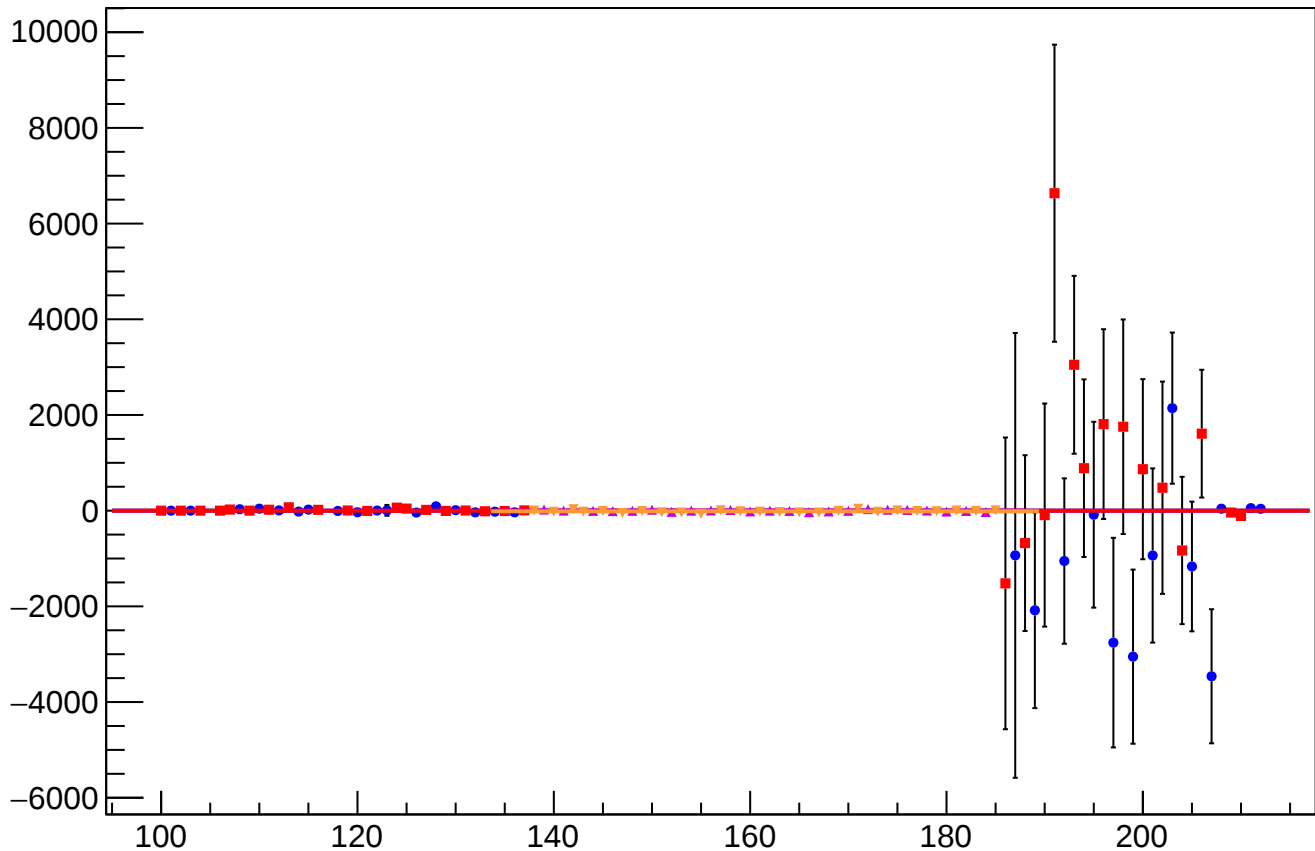
Right: 0.007+/-0.000 χ^2/NDF : 10913210.6/62

In: 0.007+/-0.000 χ^2/NDF : 5984727.4/52

Out: 0.007+/-0.000 χ^2/NDF : 6004604.1/57

All: 0.007+/-0.000 χ^2/NDF : 11992247.2/110

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 χ^2/NDF : 34.2/29

Left Out: -13.472 ± 2.796 χ^2/NDF : 58.5/24

Right Out: -0.003 ± 0.016 χ^2/NDF : 32.6/32

Left In: 0.489 ± 2.905 χ^2/NDF : 28.7/22

Left: -6.758 ± 2.015 χ^2/NDF : 99.2/47

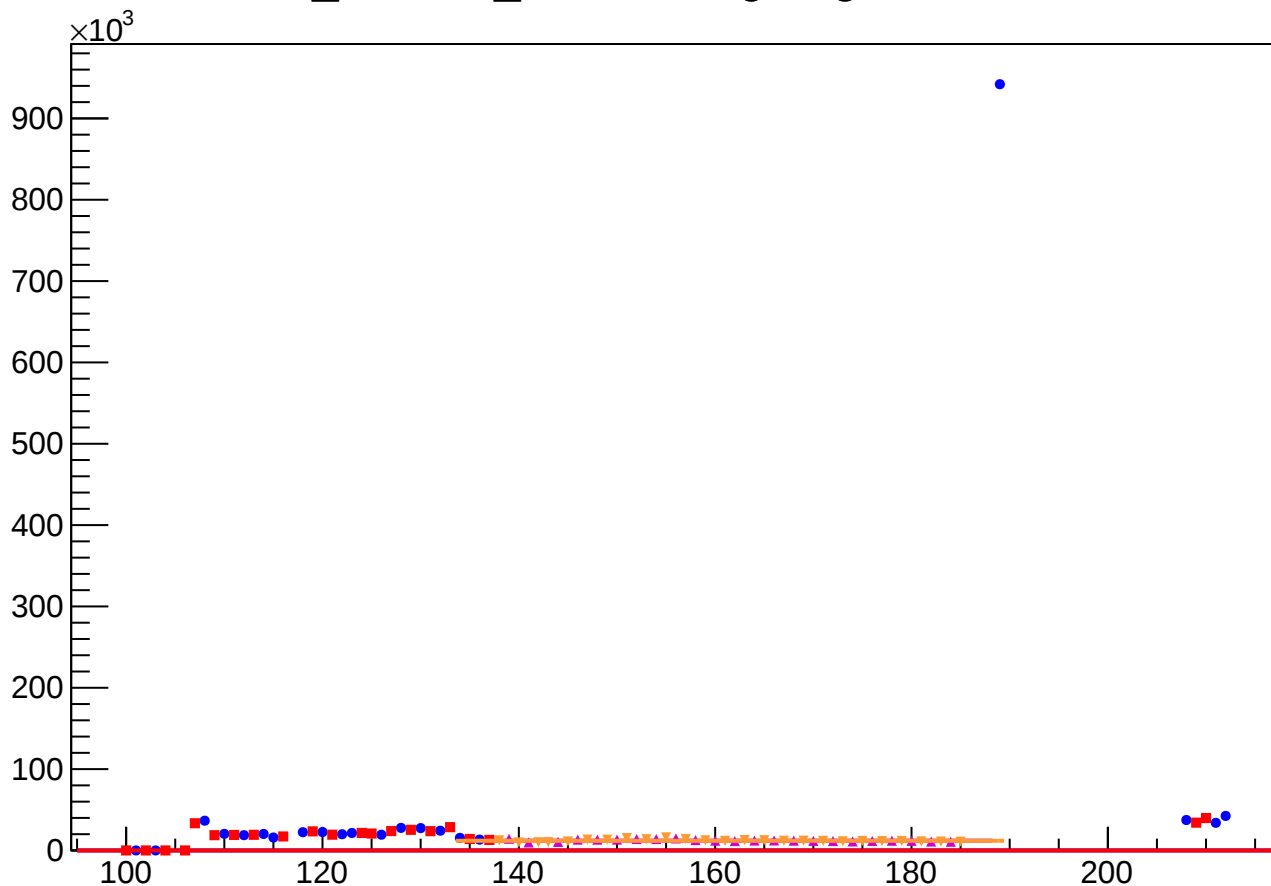
Right: 0.004 ± 0.012 χ^2/NDF : 67.3/62

In: 0.013 ± 0.017 χ^2/NDF : 62.9/52

Out: -0.004 ± 0.016 χ^2/NDF : 114.3/57

All: 0.004 ± 0.012 χ^2/NDF : 177.7/110

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.657+/-0.012 χ^2/NDF : 15128667.4/20

Left Out: 11909.835+/-1.977 χ^2/NDF : 475310.2/24

Right Out: 18.321+/-0.011 χ^2/NDF : 13894945.3/20

Left In: 12064.321+/-2.054 χ^2/NDF : 372586.0/22

Left: 11984.125+/-1.425 χ^2/NDF : 850831.6/47

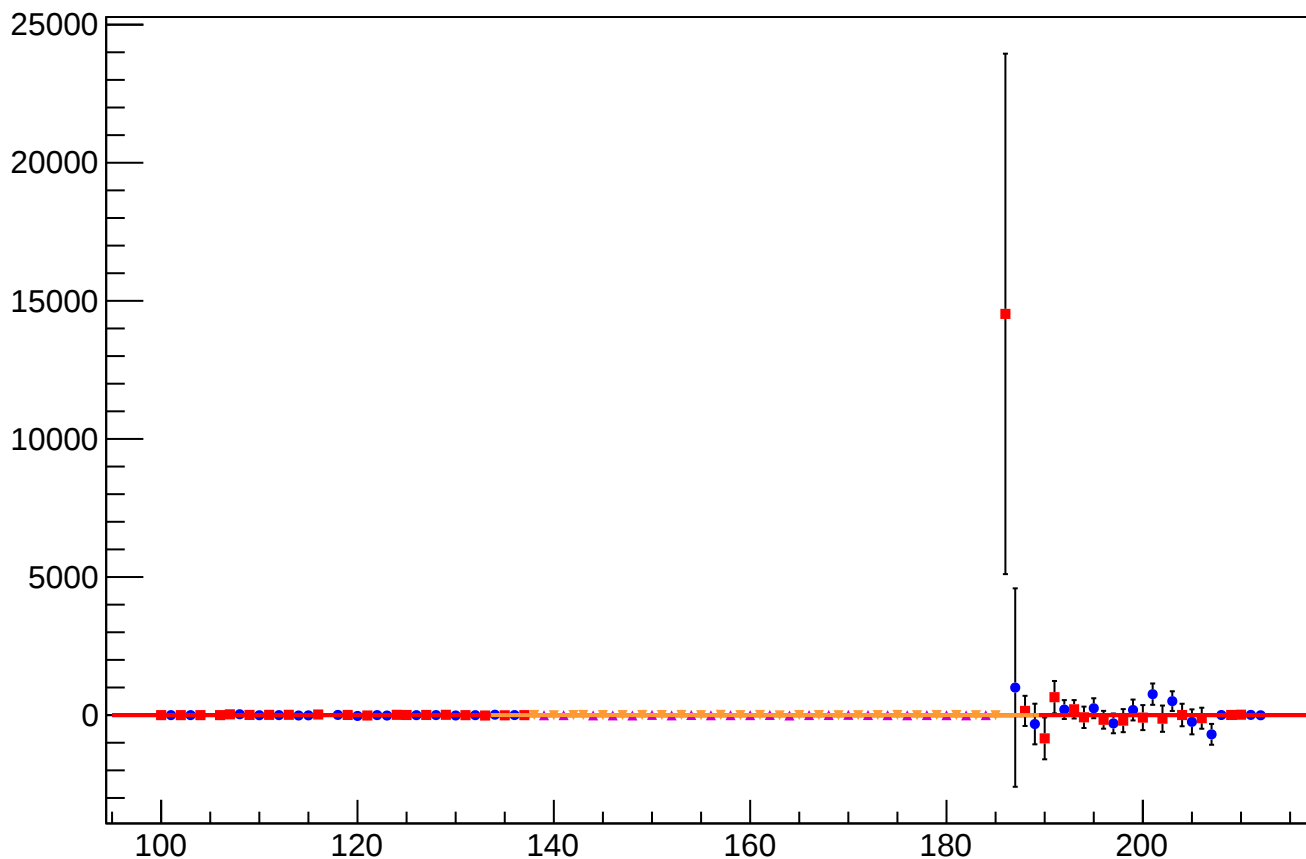
Right: 18.476+/-0.008 χ^2/NDF : 29024016.7/41

In: 19.086+/-0.012 χ^2/NDF : 49879065.0/43

Out: 18.714+/-0.011 χ^2/NDF : 50537325.4/45

All: 18.886+/-0.008 χ^2/NDF : 100416885.3/89

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 28.3/29

Left Out: 1.675 ± 1.021 χ^2/NDF : 17.9/24

Right Out: -0.014 ± 0.009 χ^2/NDF : 29.1/32

Left In: -0.843 ± 1.043 χ^2/NDF : 35.7/22

Left: 0.443 ± 0.730 χ^2/NDF : 56.5/47

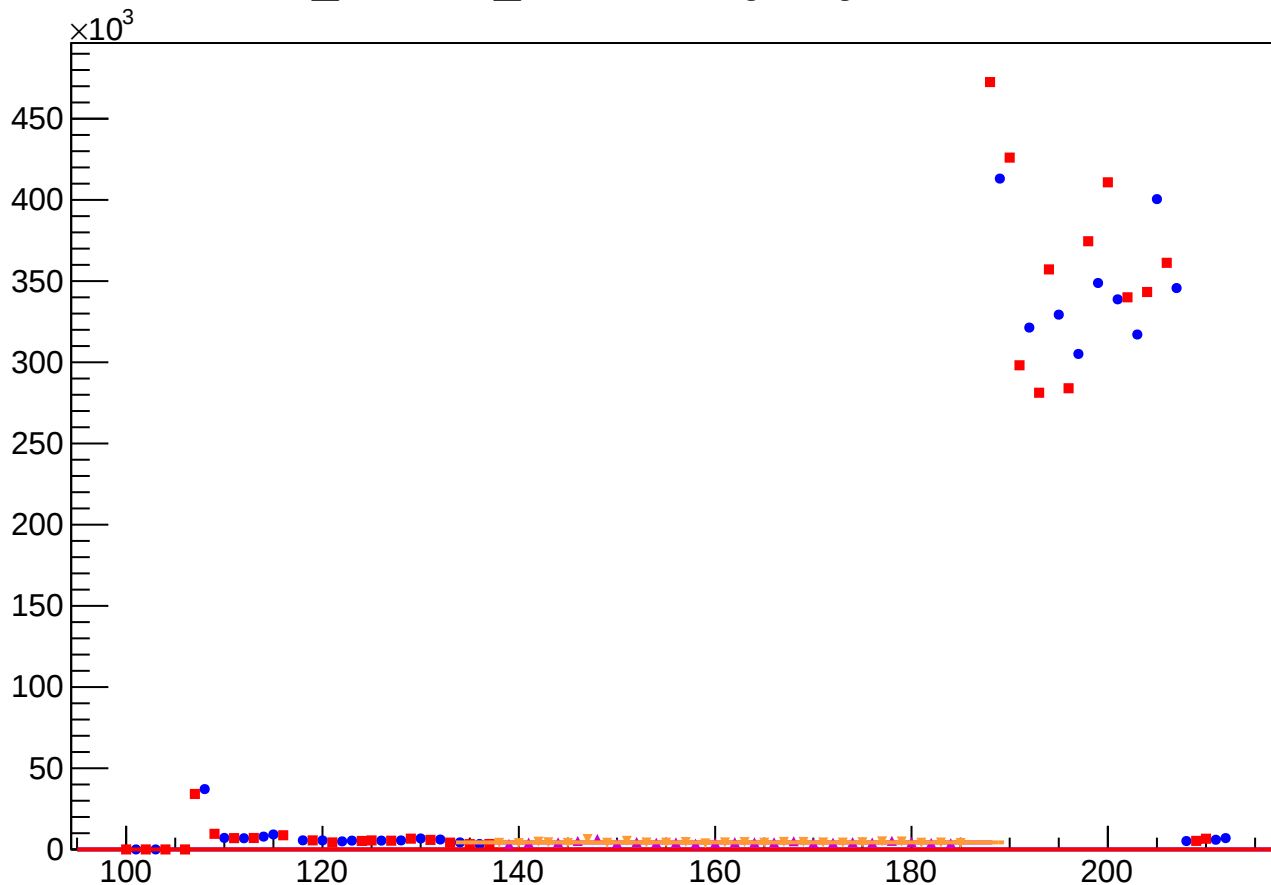
Right: -0.007 ± 0.006 χ^2/NDF : 58.8/62

In: 0.001 ± 0.009 χ^2/NDF : 64.6/52

Out: -0.014 ± 0.009 χ^2/NDF : 49.8/57

All: -0.007 ± 0.006 χ^2/NDF : 115.7/110

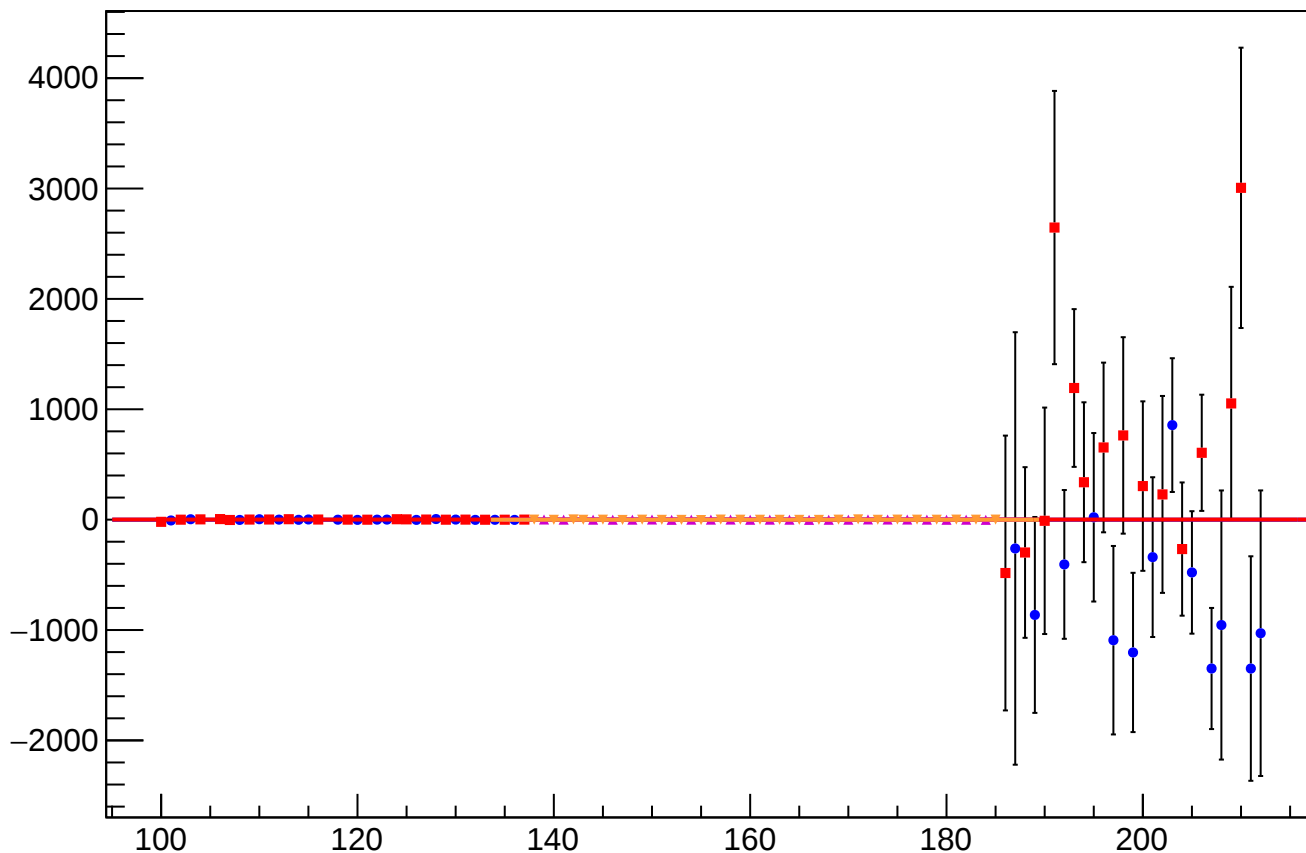
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.968 ± 0.007 χ^2/NDF : 28584385.2/28
 Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24
 Right Out: 9.873 ± 0.006 χ^2/NDF : 28704832.8/31
 Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47
 Right: 9.918 ± 0.004 χ^2/NDF : 57289330.5/60
 In: 10.303 ± 0.007 χ^2/NDF : 63179935.7/51
 Out: 10.185 ± 0.006 χ^2/NDF : 65234240.8/56
 All: 10.240 ± 0.004 χ^2/NDF : 128414351.5/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.705 ± 0.485 $\chi^2/\text{NDF}: 40.2/29$

Left Out: -0.774 ± 0.164 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.763 ± 0.502 $\chi^2/\text{NDF}: 29.4/32$

Left In: 0.020 ± 0.170 $\chi^2/\text{NDF}: 29.2/22$

Left: -0.391 ± 0.118 $\chi^2/\text{NDF}: 98.9/47$

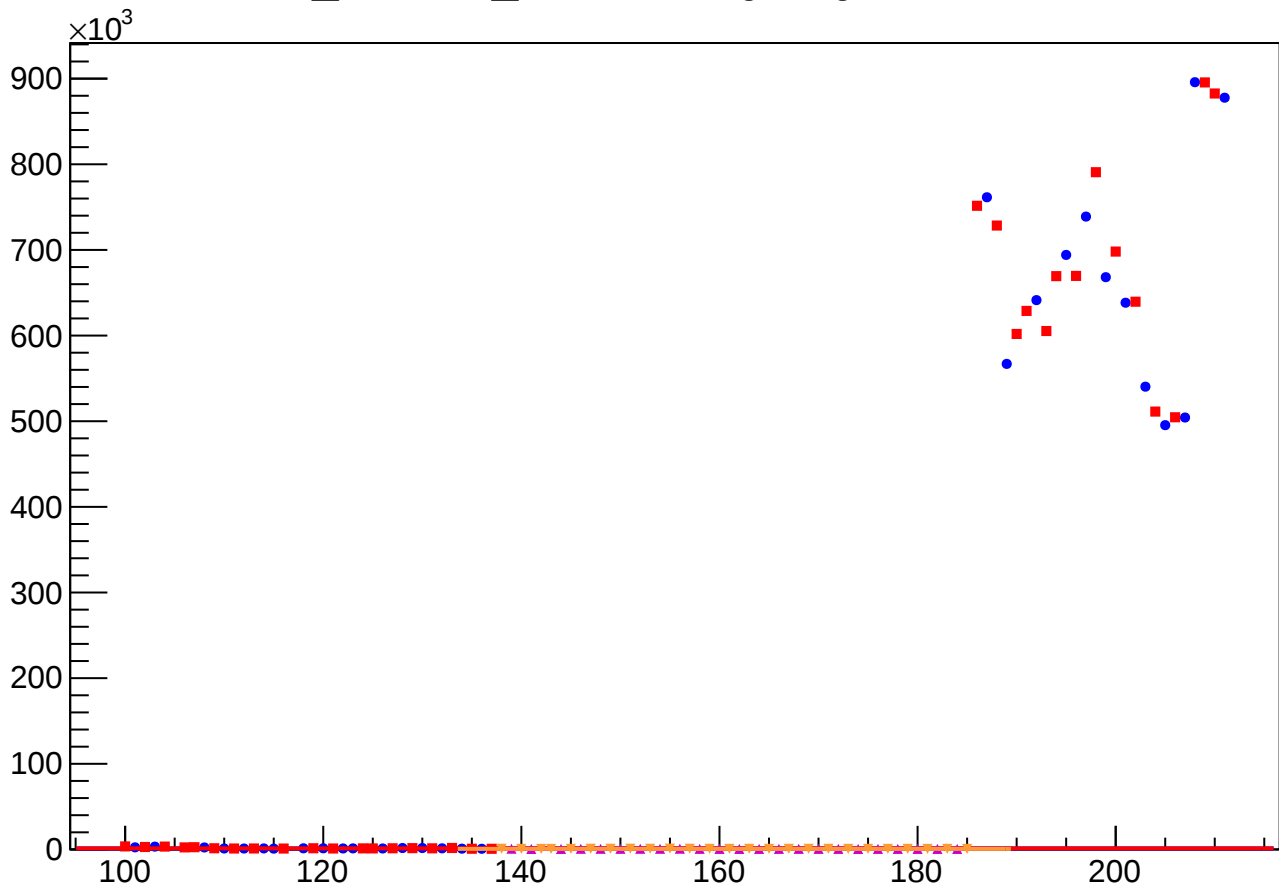
Right: 0.004 ± 0.349 $\chi^2/\text{NDF}: 74.1/62$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 71.4/52$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 96.3/57$

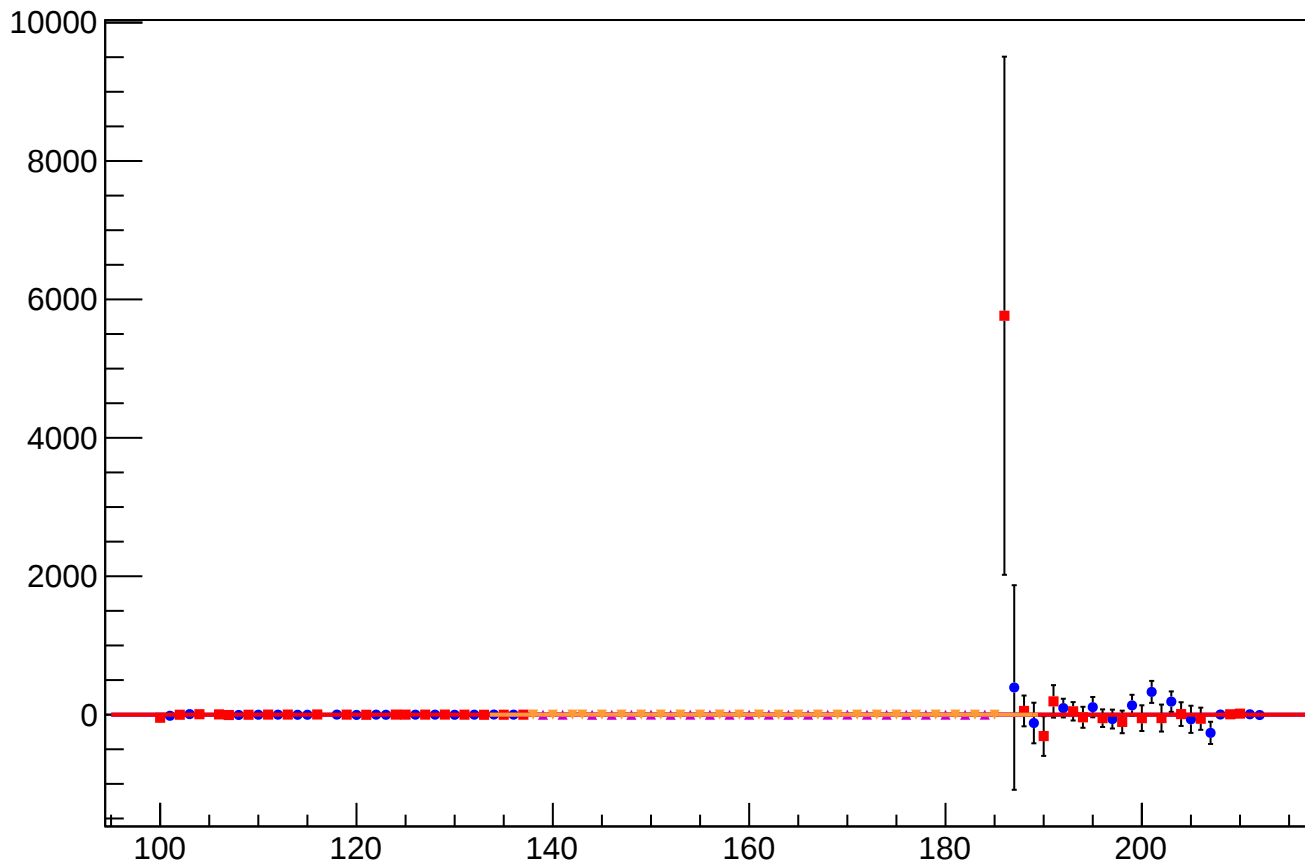
All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 174.1/110$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.299+/-0.343	χ^2/NDF : 18152560.5/28	Left: 703.766+/-0.084	χ^2/NDF : 732052.1/47
Left Out: 700.797+/-0.116	χ^2/NDF : 392521.4/24	Right: 1208.485+/-0.247	χ^2/NDF : 37164366.3/61
Right Out: 1252.624+/-0.355	χ^2/NDF : 18981927.6/32	In: 757.383+/-0.114	χ^2/NDF : 20095115.3/51
Left In: 706.950+/-0.120	χ^2/NDF : 338177.1/22	Out: 754.172+/-0.110	χ^2/NDF : 21556615.4/57
		All: 755.733+/-0.079	χ^2/NDF : 41652141.7/10

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.048 ± 0.270 χ^2/NDF : 33.7/29

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.204 ± 0.264 χ^2/NDF : 32.8/32

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

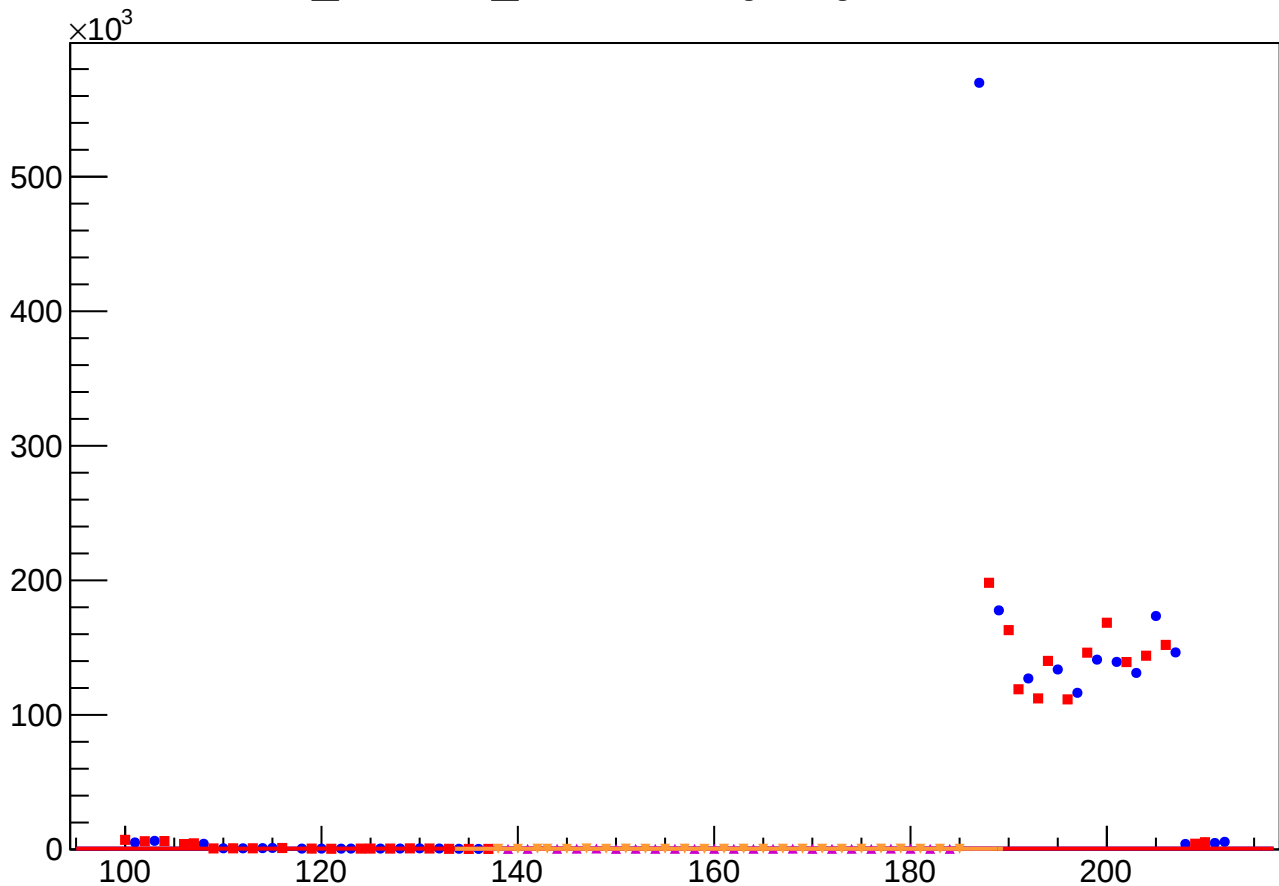
Right: -0.127 ± 0.189 χ^2/NDF : 66.7/62

In: -0.103 ± 0.114 χ^2/NDF : 68.8/52

Out: 0.158 ± 0.111 χ^2/NDF : 52.6/57

All: 0.031 ± 0.079 χ^2/NDF : 124.1/110

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 639.171+/-0.191 χ^2/NDF : 20111695.0/29

Left Out: 522.416+/-0.087 χ^2/NDF : 331573.1/24

Right Out: 621.455+/-0.187 χ^2/NDF : 20471129.3/31

Left In: 519.909+/-0.089 χ^2/NDF : 444746.3/22

Left: 521.193+/-0.062 χ^2/NDF : 776728.3/47

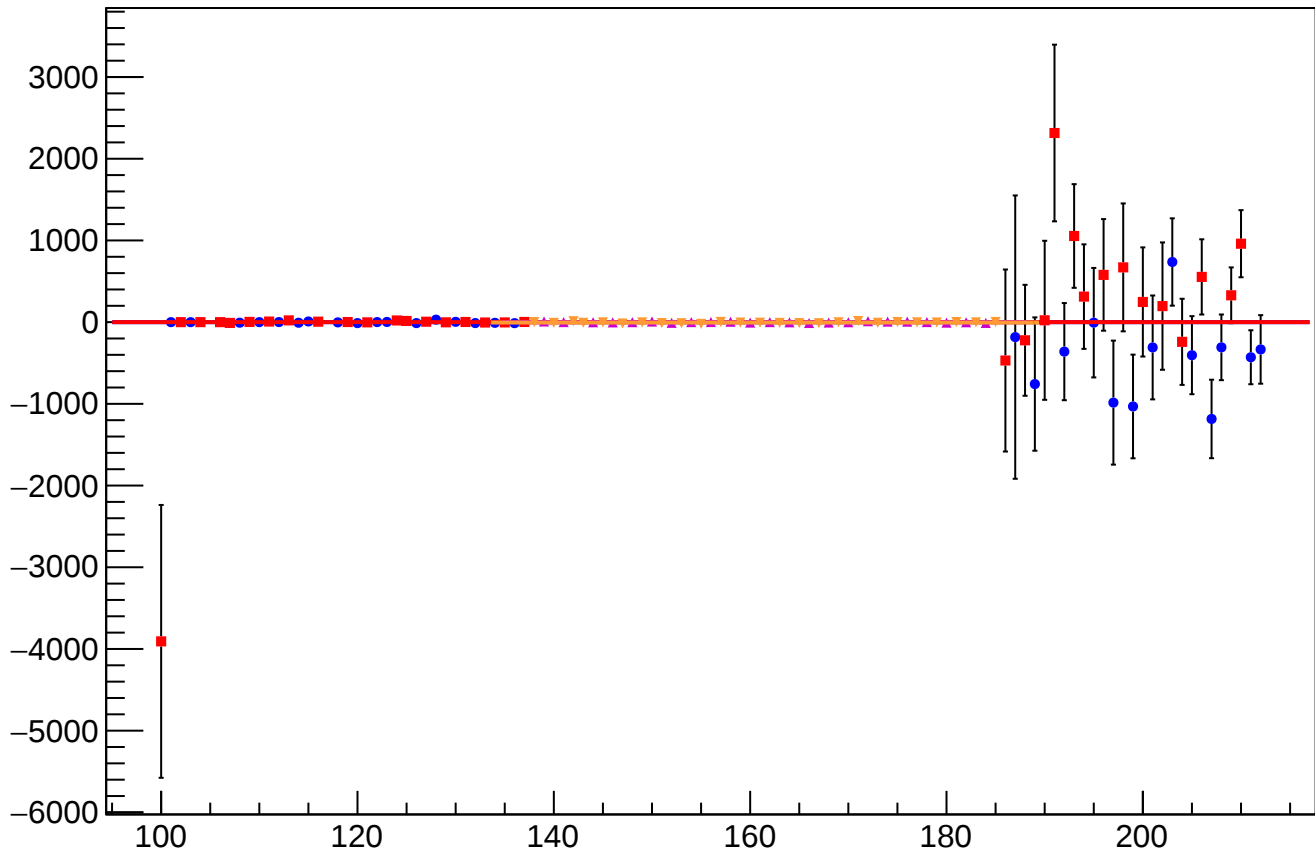
Right: 630.133+/-0.133 χ^2/NDF : 40587227.7/61

In: 541.138+/-0.080 χ^2/NDF : 20877964.4/52

Out: 539.930+/-0.079 χ^2/NDF : 21033945.7/56

All: 540.520+/-0.056 χ^2/NDF : 41912025.5/10

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 33.0/29

Left Out: -4.474 ± 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 34.4/32

Left In: 0.193 ± 0.990 χ^2/NDF : 29.2/22

Left: -2.224 ± 0.688 χ^2/NDF : 99.0/47

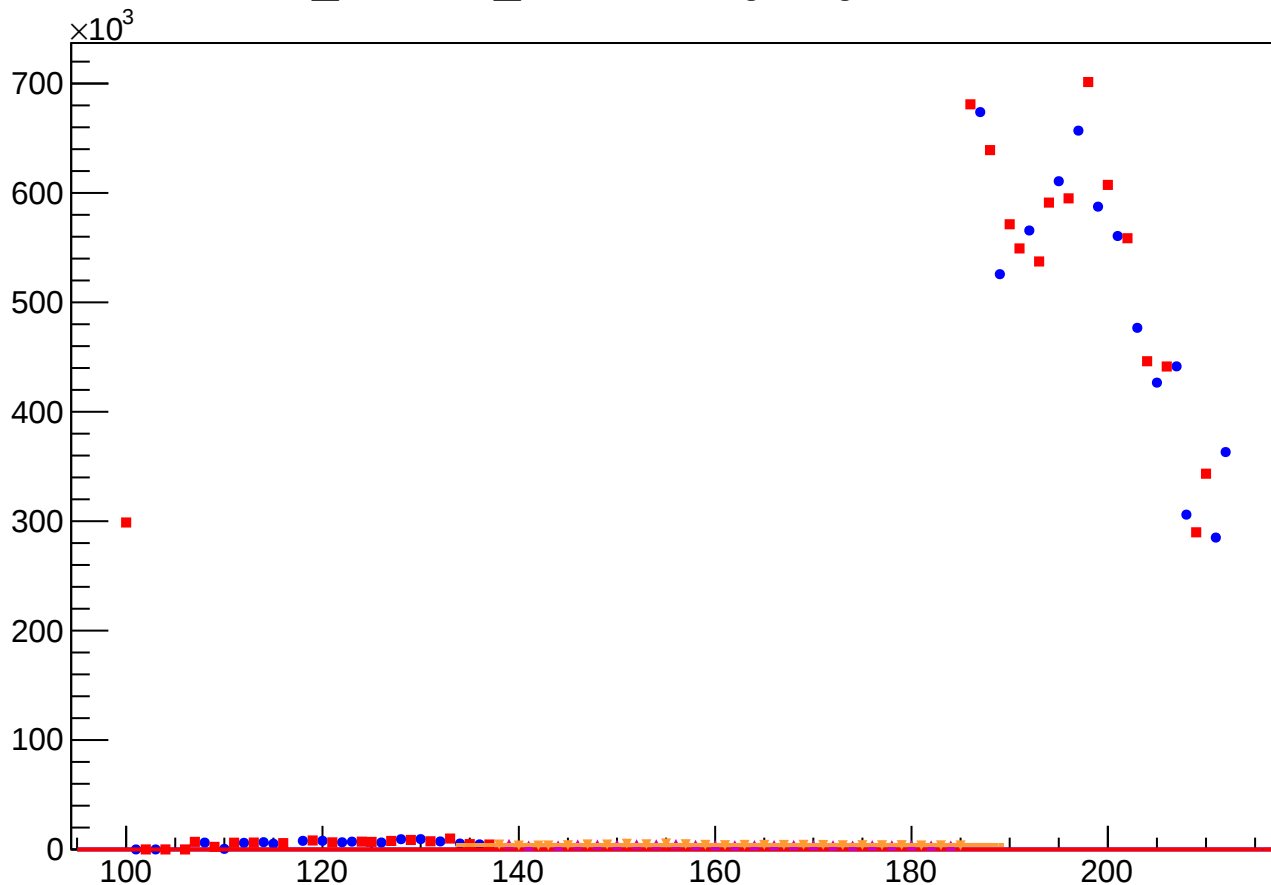
Right: 0.004 ± 0.014 χ^2/NDF : 70.3/62

In: -0.022 ± 0.021 χ^2/NDF : 62.3/52

Out: 0.025 ± 0.020 χ^2/NDF : 114.8/57

All: 0.003 ± 0.014 χ^2/NDF : 179.7/110

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.344+/-0.015 χ^2/NDF : 28711864.1/29

Left Out: 4074.257+/-0.676 χ^2/NDF : 416916.0/24

Right Out: 17.274+/-0.014 χ^2/NDF : 29524044.5/32

Left In: 4113.744+/-0.700 χ^2/NDF : 354965.8/22

Left: 4093.298+/-0.486 χ^2/NDF : 773528.6/47

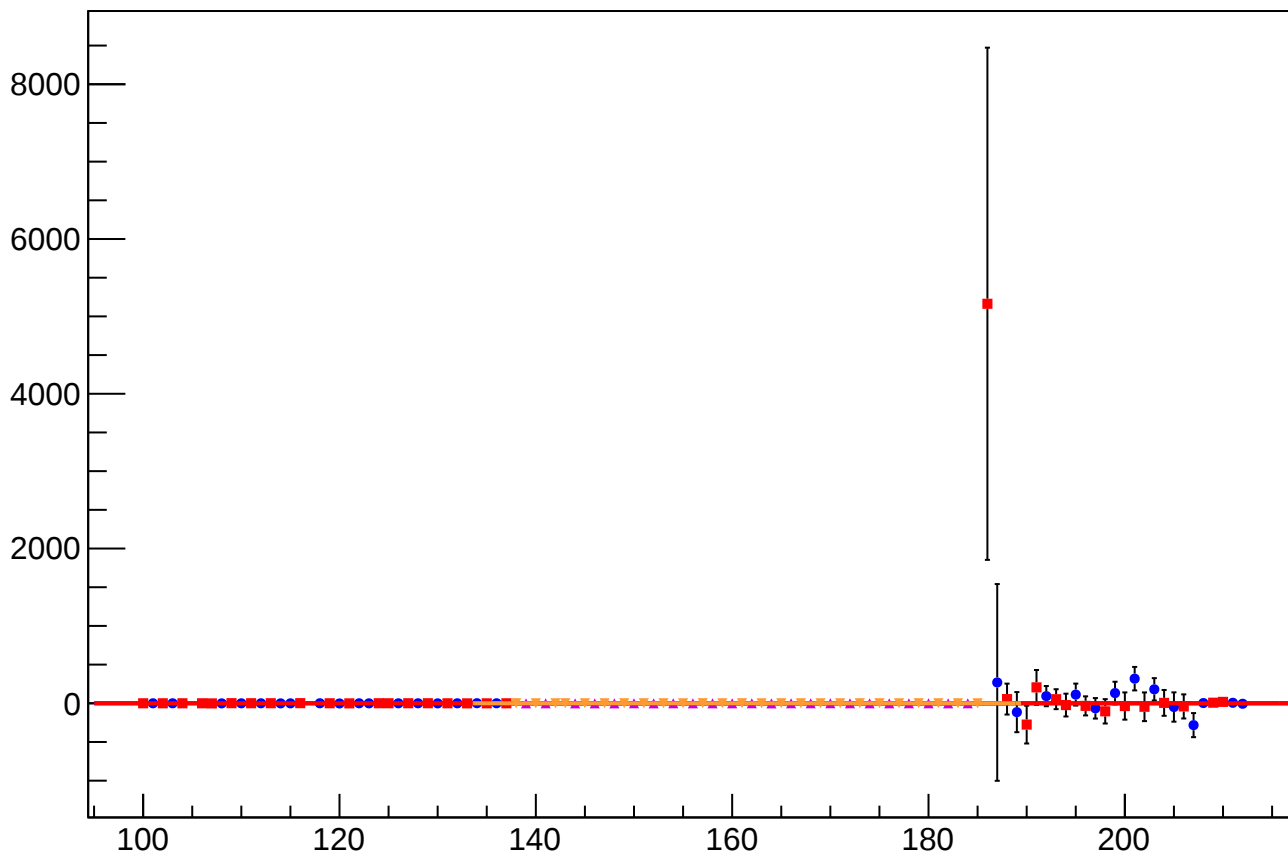
Right: 17.307+/-0.010 χ^2/NDF : 58235920.4/62

In: 19.150+/-0.015 χ^2/NDF : 63280968.2/52

Out: 19.011+/-0.014 χ^2/NDF : 65976910.2/57

All: 19.077+/-0.010 χ^2/NDF : 129257925.0/111

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 28.9/29

Left Out: 0.151 ± 0.076 χ^2/NDF : 16.8/24

Right Out: -0.001 ± 0.002 χ^2/NDF : 31.1/32

Left In: -0.075 ± 0.078 χ^2/NDF : 34.8/22

Left: 0.041 ± 0.055 χ^2/NDF : 55.8/47

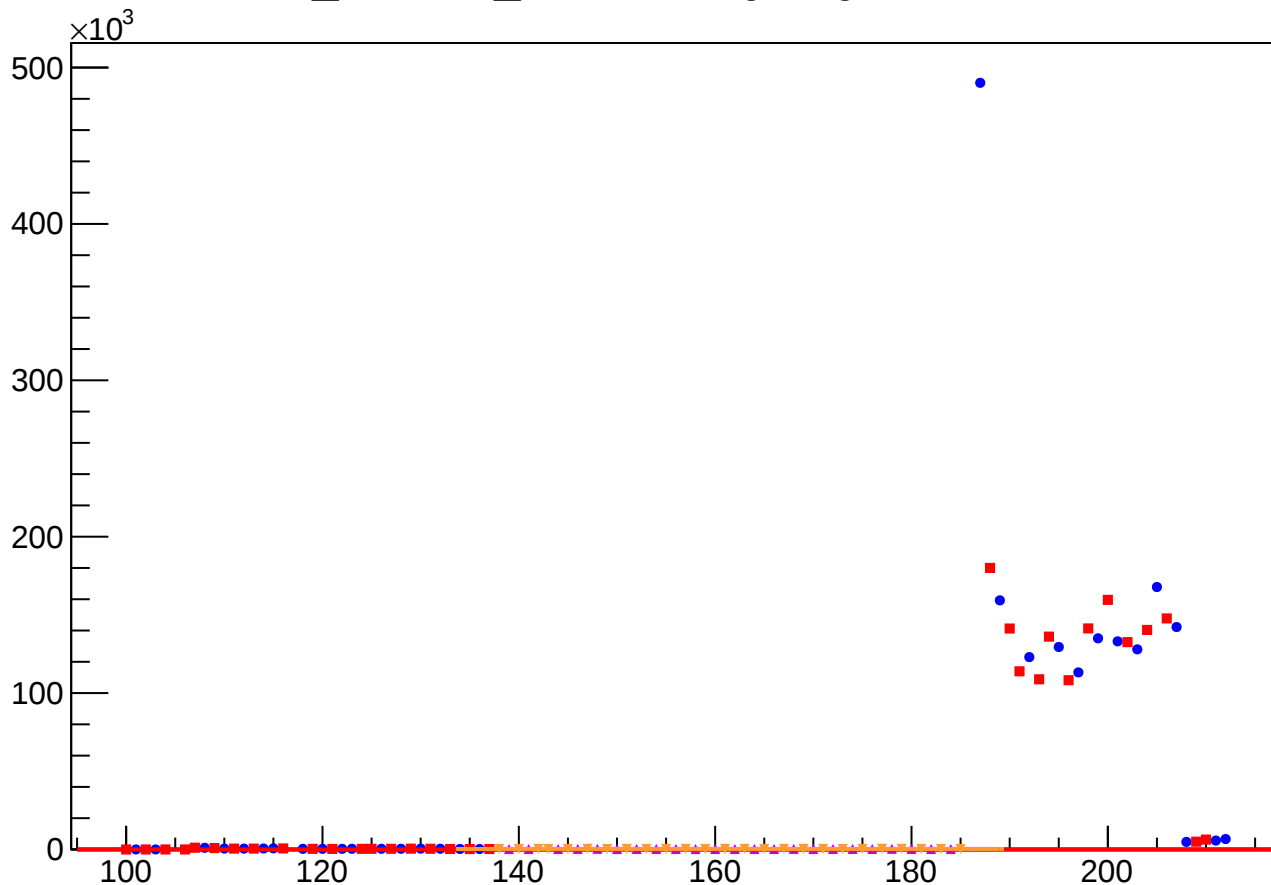
Right: -0.000 ± 0.001 χ^2/NDF : 60.1/62

In: 0.000 ± 0.002 χ^2/NDF : 64.6/52

Out: -0.001 ± 0.002 χ^2/NDF : 51.8/57

All: -0.000 ± 0.001 χ^2/NDF : 116.5/110

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.700 $\pm$ 0.001 χ^2 /NDF: 28976360.7/29

Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF:350046.8/24

Right Out: 1.729 $\pm$ 0.001 χ^2 /NDF: 28474931.4/31

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

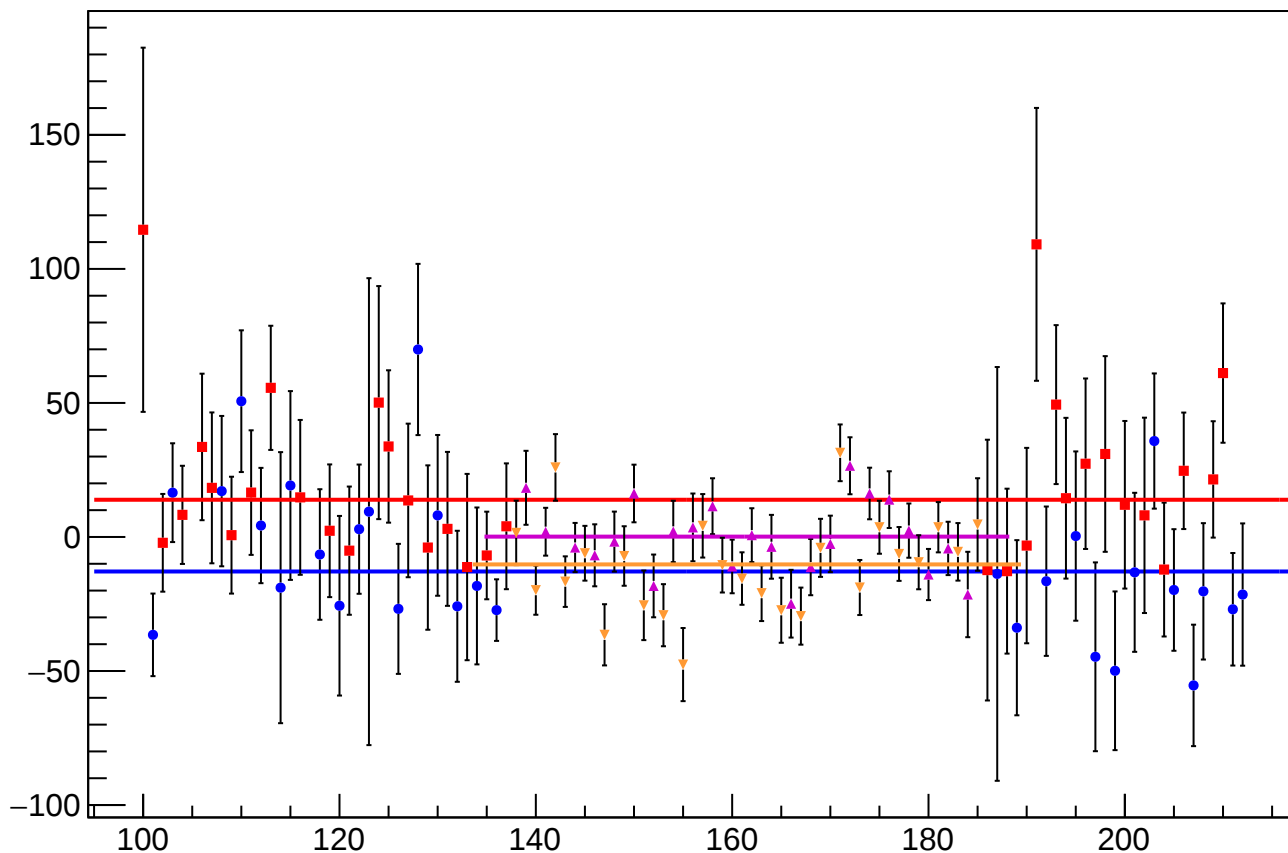
Right: 1.715 $\pm$ 0.001 χ^2 /NDF: 57451511.0/61

In: 1.915 $\pm$ 0.001 χ^2 /NDF:63379472.5/52

Out: 1.938 $\pm$ 0.001 χ^2 /NDF:64782527.9/56

All: 1.927 $\pm$ 0.001 χ^2 /NDF: 128162132.0/109

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -12.876 $\pm$ 4.535 χ^2/NDF : 34.3/29

Left Out: -10.235 $\pm$ 2.167 χ^2/NDF : 58.0/24

Right Out: 13.883 $\pm$ 4.634 χ^2/NDF : 23.5/32

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

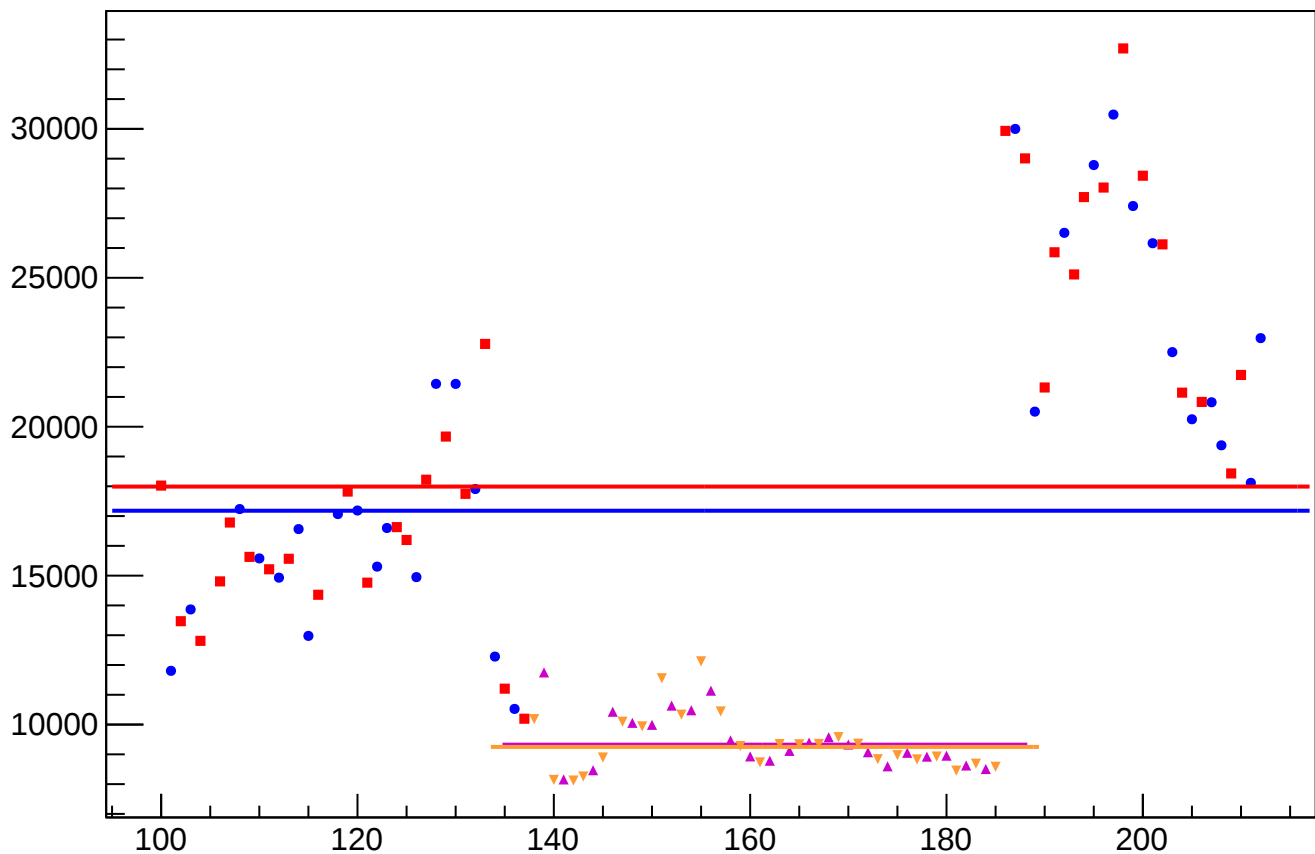
Right: 0.214 $\pm$ 3.241 χ^2/NDF : 74.8/62

In: -2.425 $\pm$ 2.010 χ^2/NDF : 70.8/52

Out: -5.908 $\pm$ 1.963 χ^2/NDF : 103.7/57

All: -4.208 $\pm$ 1.404 χ^2/NDF : 176.0/110

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17179.468 $\pm$ 3.206 χ^2 /NDF: 2769582.8/29

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF:332003.4/24

Right Out: 17990.131 $\pm$ 3.277 χ^2 /NDF: 2798127.3/32

Left In: 9325.112 $\pm$ 1.585 χ^2 /NDF:280927.7/22

Left: 9285.937 $\pm$ 1.102 χ^2 /NDF: 614111.7/47

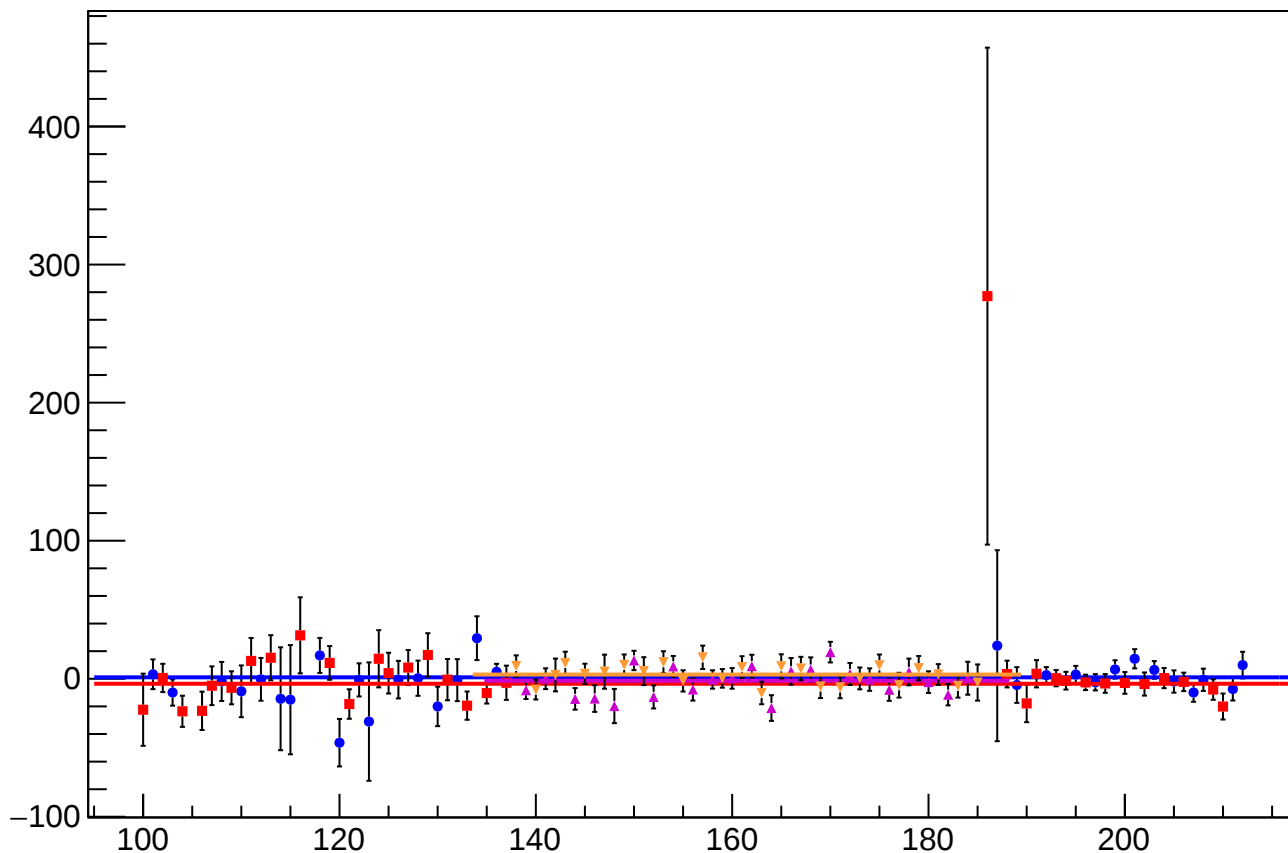
Right: 17576.023 $\pm$ 2.292 χ^2 /NDF: 5598977.9/62

In: 10868.206 $\pm$ 1.421 χ^2 /NDF:7871998.9/52

Out: 10817.445 $\pm$ 1.388 χ^2 /NDF:8969624.4/57

All: 10842.222 $\pm$ 0.993 χ^2 /NDF: 16842276.3

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.057 ± 1.713 $\chi^2/\text{NDF}: 28.5/29$

Left Out: 3.062 ± 1.659 $\chi^2/\text{NDF}: 18.3/24$

Right Out: -3.597 ± 1.691 $\chi^2/\text{NDF}: 29.1/32$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

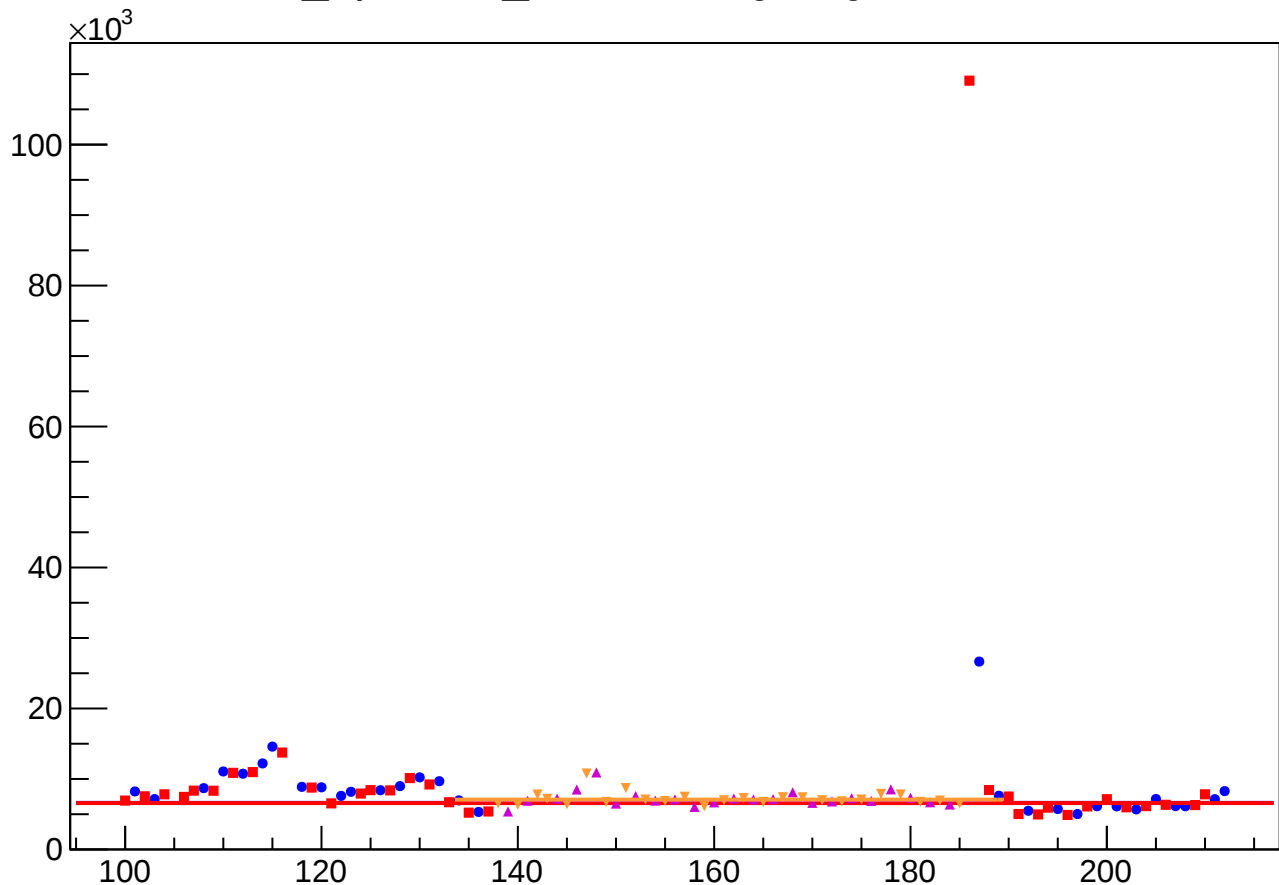
Right: -1.301 ± 1.203 $\chi^2/\text{NDF}: 61.3/62$

In: -0.183 ± 1.204 $\chi^2/\text{NDF}: 64.9/52$

Out: -0.204 ± 1.184 $\chi^2/\text{NDF}: 55.3/57$

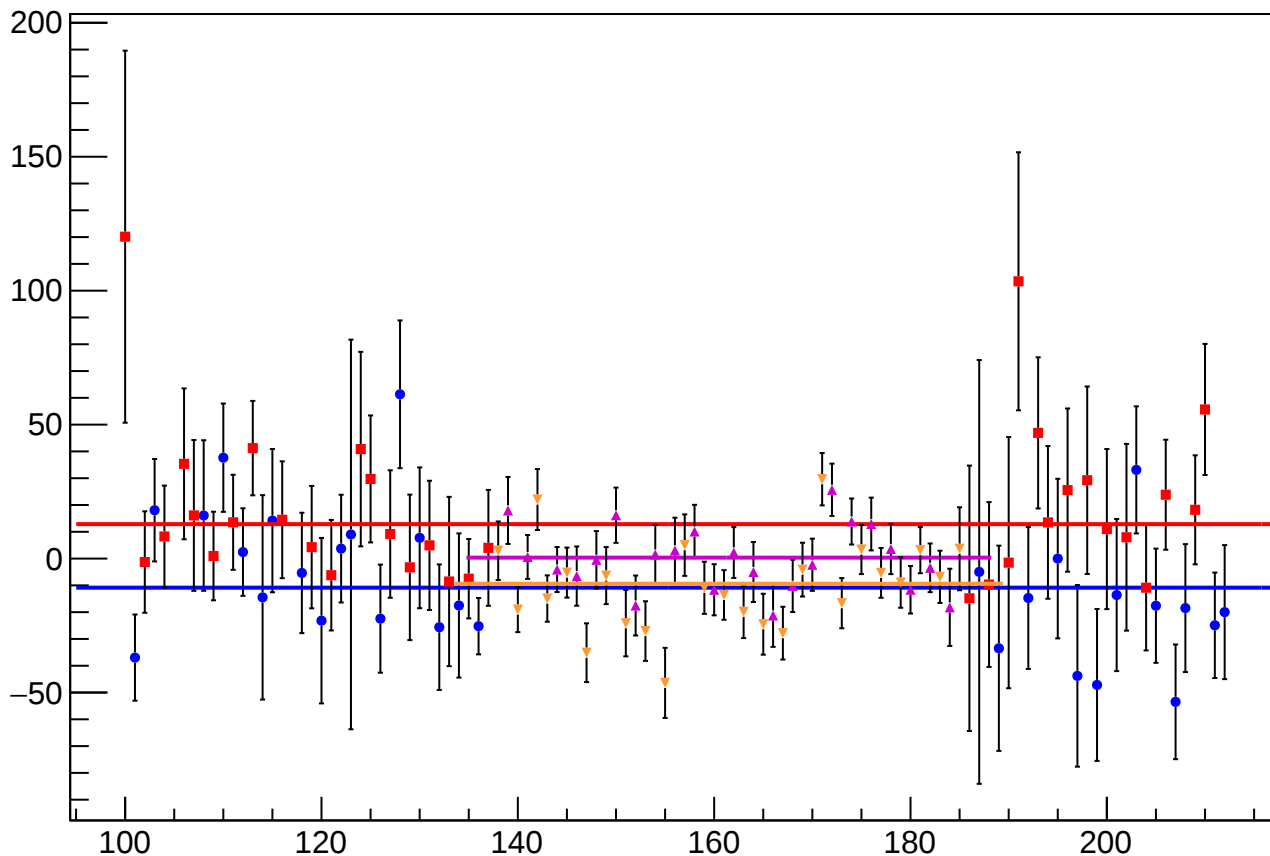
All: -0.194 ± 0.844 $\chi^2/\text{NDF}: 120.1/110$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6606.614 $\pm$ 1.211	χ^2/NDF : 1597532.3/29	Left: 7034.358 $\pm$ 0.838	χ^2/NDF : 939043.5/47
Left Out: 7066.826 $\pm$ 1.173	χ^2/NDF : 387449.8/24	Right: 6594.101 $\pm$ 0.851	χ^2/NDF : 3737473.8/62
Right Out: 6581.914 $\pm$ 1.196	χ^2/NDF : 2139730.9/32	In: 6805.892 $\pm$ 0.852	χ^2/NDF : 2201050.0/52
Left In: 7000.532 $\pm$ 1.197	χ^2/NDF : 550029.3/22	Out: 6828.986 $\pm$ 0.837	χ^2/NDF : 2611005.0/57
		All: 6817.634 $\pm$ 0.597	χ^2/NDF : 4812429.0/11

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -10.857 ± 4.148 χ^2/NDF : 35.3/29

Left Out: -9.376 ± 2.018 χ^2/NDF : 58.4/24

Right Out: 12.860 ± 4.198 χ^2/NDF : 22.7/32

Left In: 0.353 ± 2.092 χ^2/NDF : 29.6/22

Left: -4.688 ± 1.452 χ^2/NDF : 99.3/47

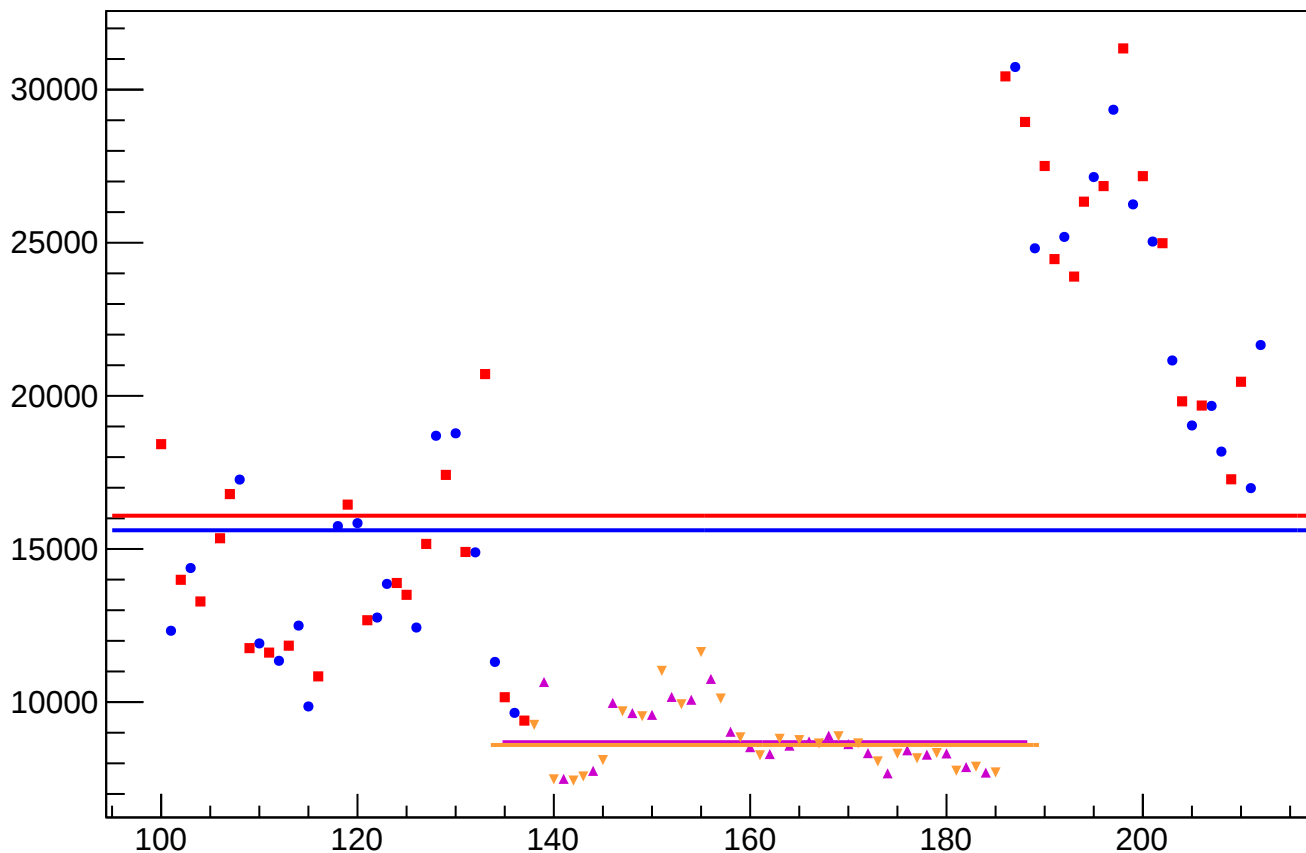
Right: 0.860 ± 2.950 χ^2/NDF : 74.1/62

In: -1.920 ± 1.868 χ^2/NDF : 70.8/52

Out: -5.203 ± 1.819 χ^2/NDF : 103.9/57

All: -3.605 ± 1.303 χ^2/NDF : 176.3/110

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15610.542 $\pm$ 2.933 χ^2 /NDF: 3210894.6/29

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF:438229.4/24

Right Out: 16086.688 $\pm$ 2.968 χ^2 /NDF: 3549330.8/32

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

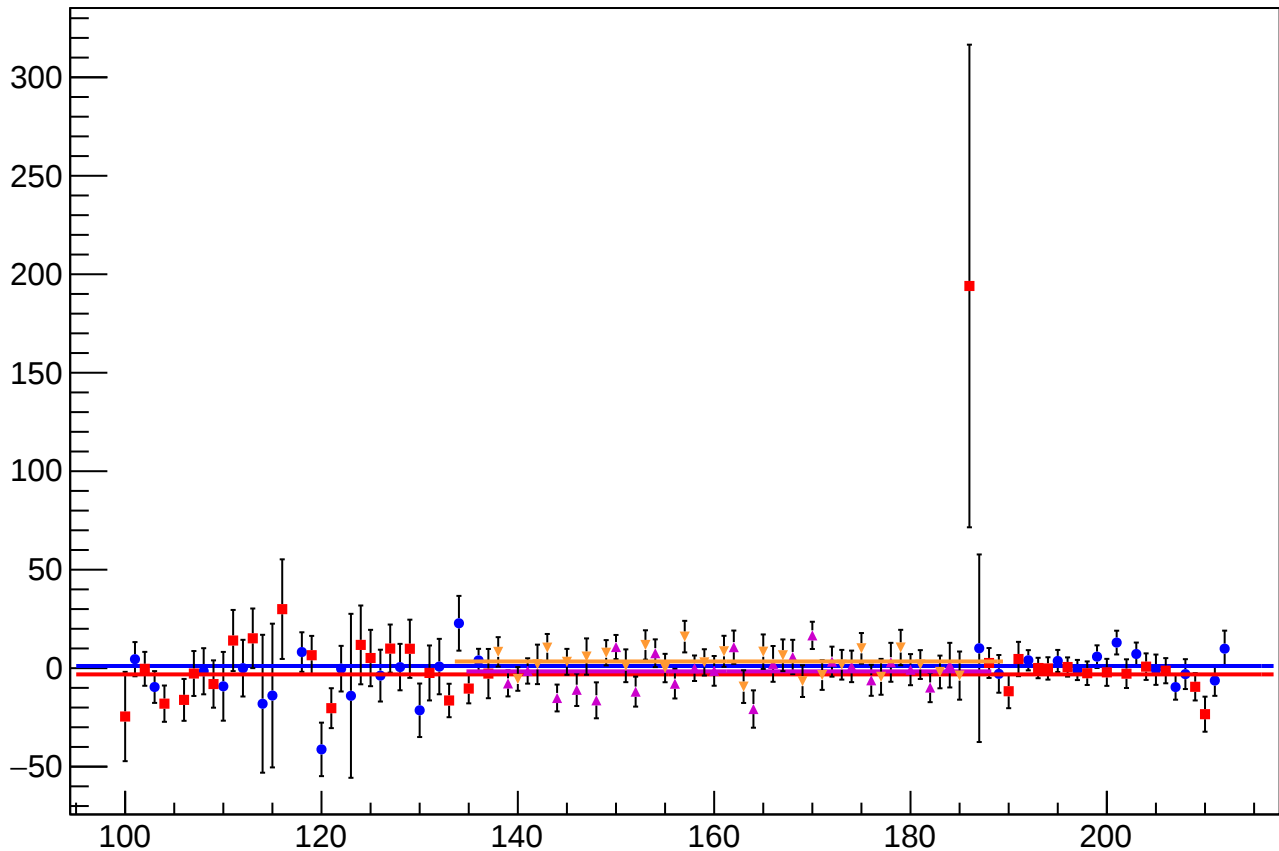
Right: 15845.758 $\pm$ 2.086 χ^2 /NDF: 6773246.4/62

In: 10093.965 $\pm$ 1.321 χ^2 /NDF:8020208.1/52

Out: 10005.544 $\pm$ 1.286 χ^2 /NDF:9154827.9/57

All: 10048.569 $\pm$ 0.921 χ^2 /NDF: 17177336.5/111

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.104 ± 1.542 χ^2/NDF : 30.2/29

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -3.162 ± 1.499 χ^2/NDF : 32.4/32

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

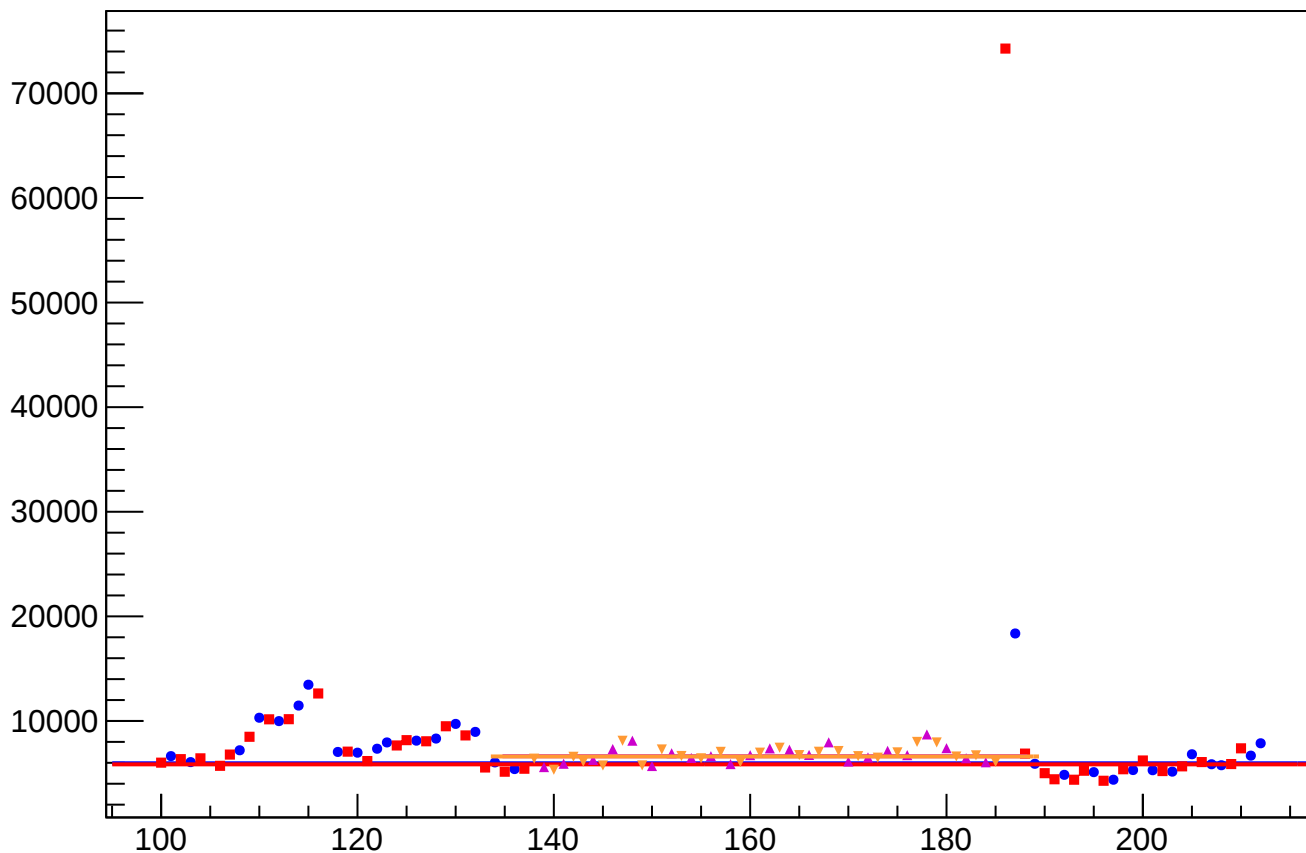
Right: -1.090 ± 1.075 χ^2/NDF : 66.5/62

In: -0.212 ± 1.110 χ^2/NDF : 65.2/52

Out: 0.011 ± 1.078 χ^2/NDF : 58.5/57

All: -0.097 ± 0.773 χ^2/NDF : 123.7/110

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5954.565+/-1.091 χ^2 /NDF: 1597508.0/29

Left Out: 6607.100+/-1.096 χ^2/NDF :398416.1/24

Right Out: 5852.182+/-1.060 χ^2/NDF : 2194263.1/32

Left In: 6628.653+/-1.131 χ^2/NDF :430282.2/22

Left: 6617.543 ± 0.787 $\chi^2/\text{NDF}: 828885.6/47$

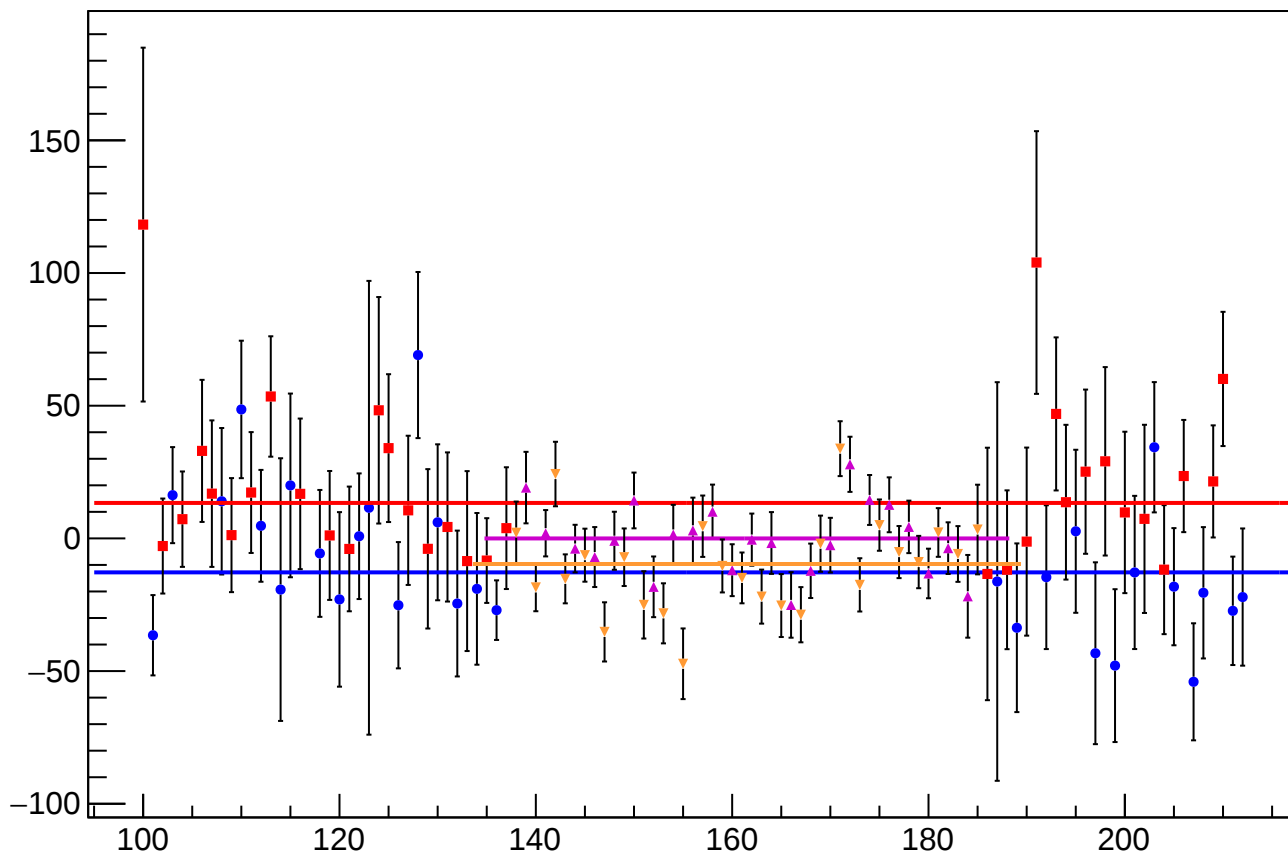
Right: 5901.916+/-0.760 χ^2/NDF : 3796302.7/62

In: 6279.447+/-0.785 χ^2/NDF :2211898.8/52

Out: 6216.938+/-0.762 χ^2/NDF :2837734.1/57

All: 6247.266+/-0.547 χ^2/NDF : 5052897.4/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -12.804 ± 4.433 χ^2/NDF : 34.1/29

Left Out: -9.649 ± 2.118 χ^2/NDF : 59.8/24

Right Out: 13.362 ± 4.531 χ^2/NDF : 23.5/32

Left In: -0.019 ± 2.192 χ^2/NDF : 30.6/22

Left: -4.999 ± 1.523 χ^2/NDF : 100.4/47

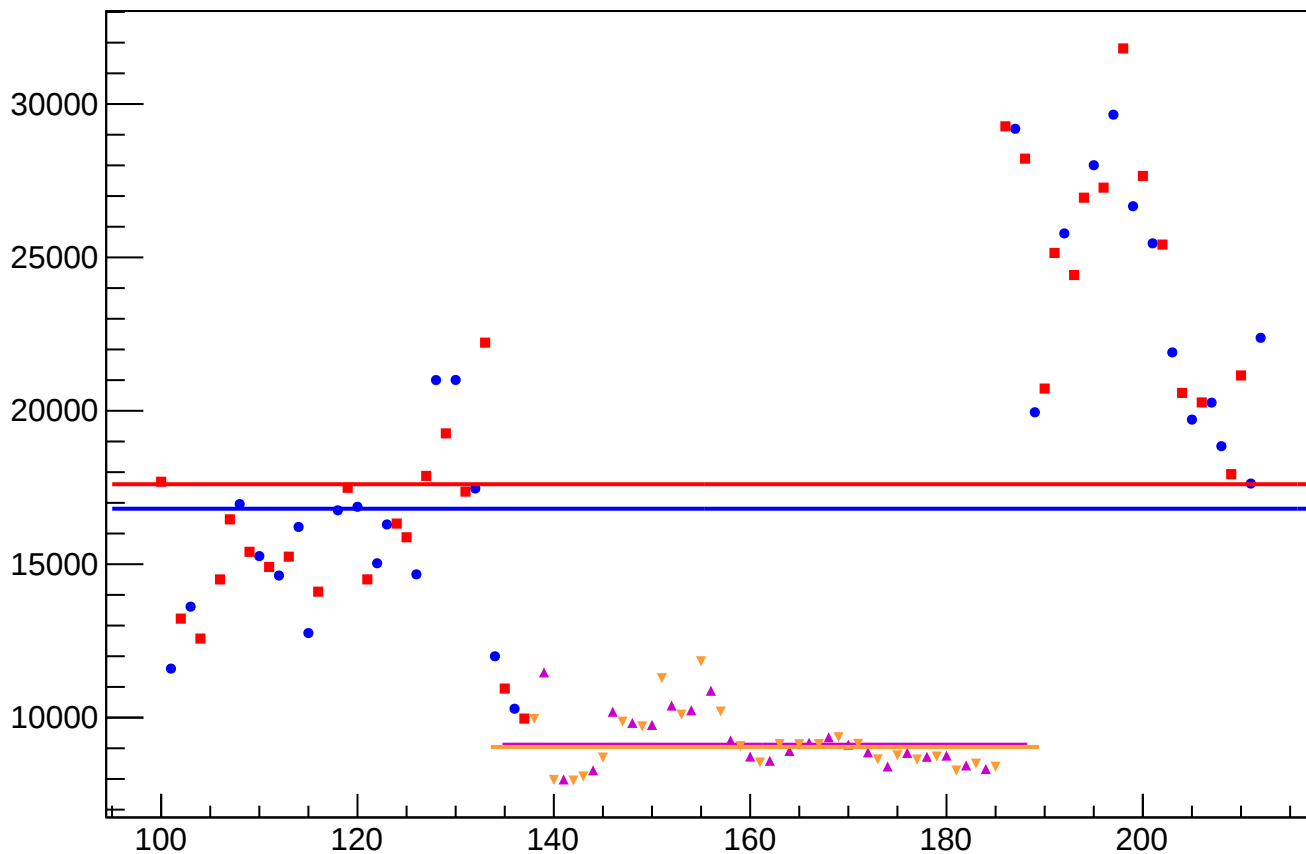
Right: -0.008 ± 3.169 χ^2/NDF : 74.7/62

In: -2.531 ± 1.965 χ^2/NDF : 71.4/52

Out: -5.522 ± 1.919 χ^2/NDF : 104.5/57

All: -4.062 ± 1.373 χ^2/NDF : 177.1/110

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16808.156+/-3.135 χ^2/NDF : 2725914.9/29

Left Out: 9043.485+/-1.498 χ^2/NDF : 328192.2/24

Right Out: 17607.060+/-3.204 χ^2/NDF : 2748827.3/32

Left In: 9116.921+/-1.550 χ^2/NDF : 277594.8/22

Left: 9078.947+/-1.077 χ^2/NDF : 606947.8/47

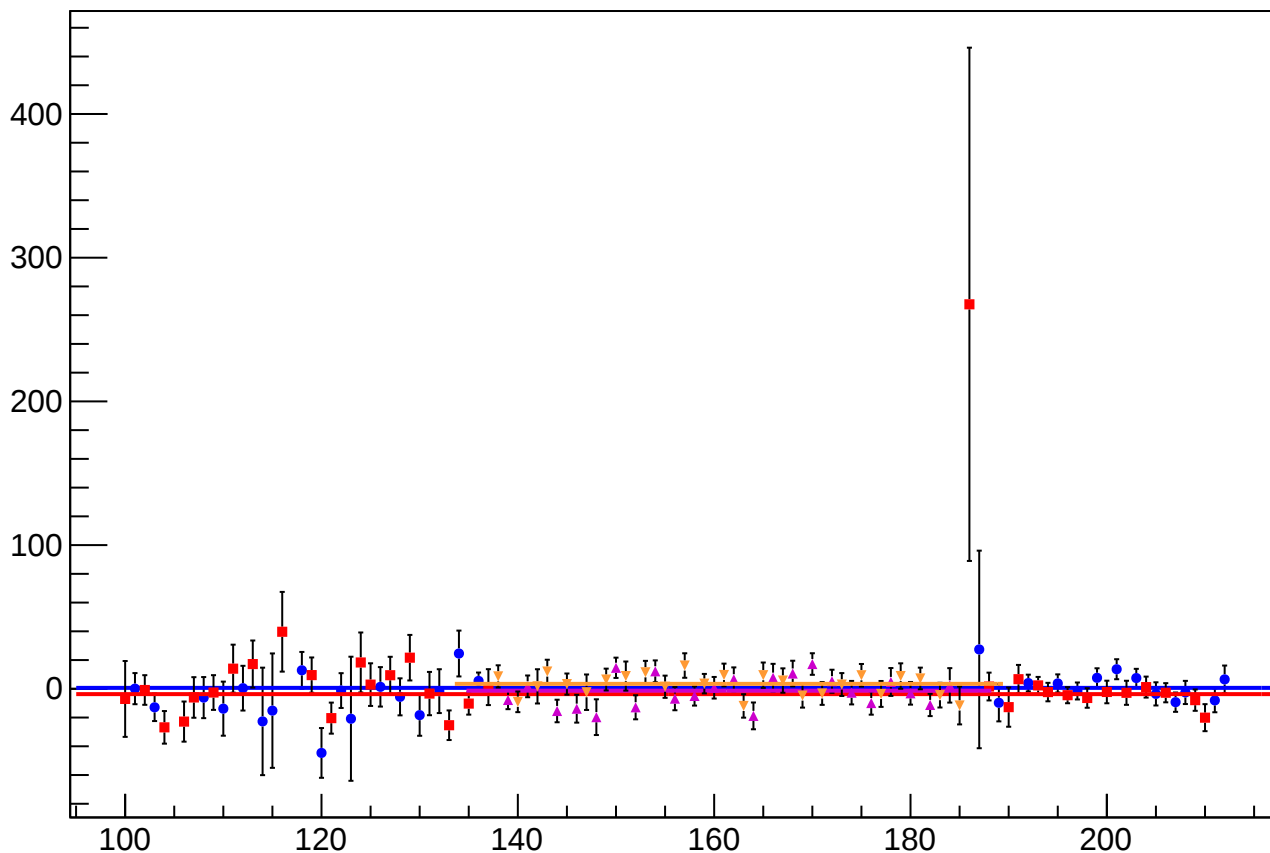
Right: 17198.851+/-2.241 χ^2/NDF : 5506505.7/62

In: 10627.879+/-1.389 χ^2/NDF : 7840768.4/52

Out: 10579.141+/-1.357 χ^2/NDF : 8938848.1/57

All: 10602.933+/-0.971 χ^2/NDF : 16780246.3/116

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.652 $\pm$ 1.719 χ^2/NDF : 27.6/29

Left Out: 3.439 $\pm$ 1.666 χ^2/NDF : 18.9/24

Right Out: -3.702 $\pm$ 1.697 χ^2/NDF : 34.4/32

Left In: -1.291 $\pm$ 1.701 χ^2/NDF : 36.5/22

Left: 1.123 $\pm$ 1.190 χ^2/NDF : 59.4/47

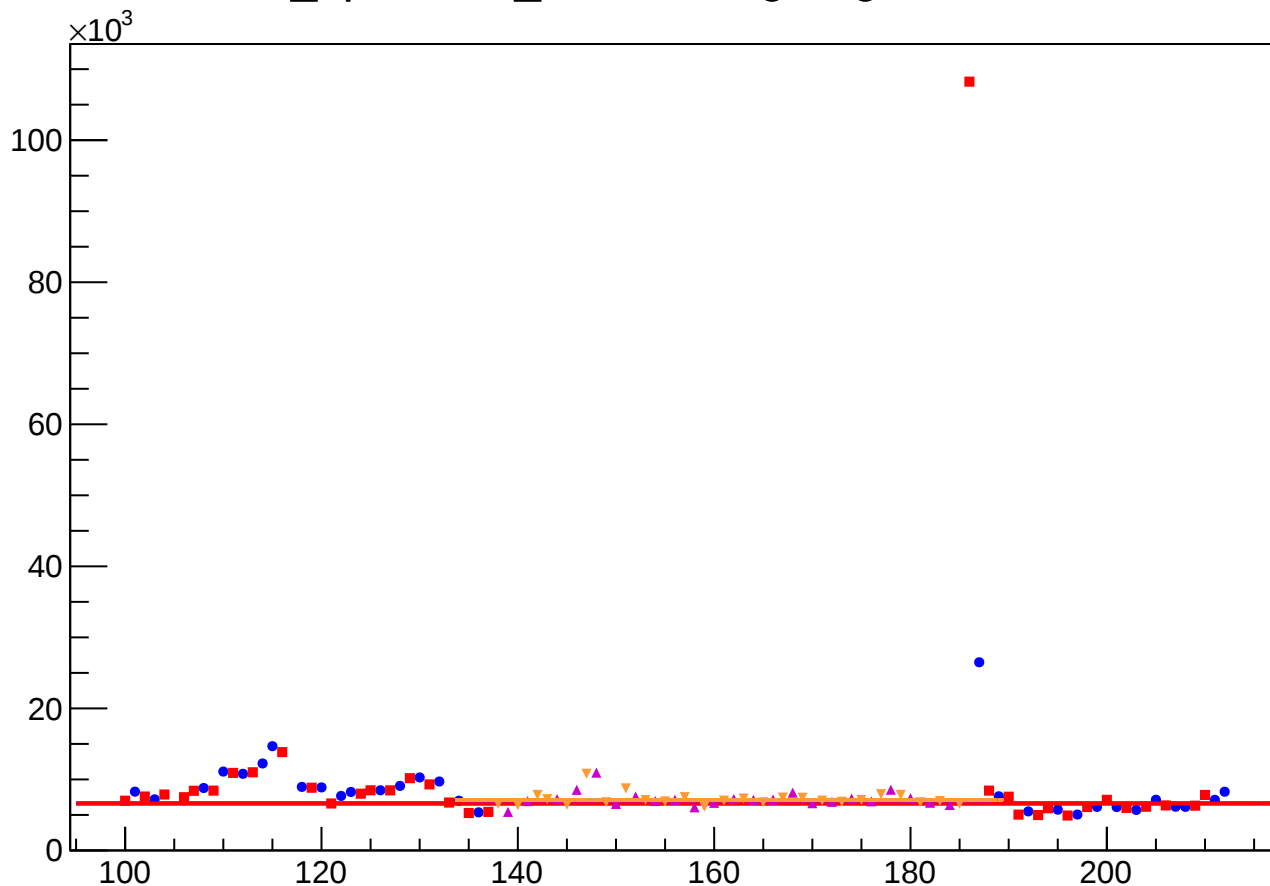
Right: -1.552 $\pm$ 1.207 χ^2/NDF : 65.3/62

In: -0.329 $\pm$ 1.209 χ^2/NDF : 64.8/52

Out: -0.066 $\pm$ 1.189 χ^2/NDF : 62.4/57

All: -0.195 $\pm$ 0.848 χ^2/NDF : 127.2/110

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6627.267 $\pm$ 1.215 χ^2/NDF : 1604163.3/29

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6606.976 $\pm$ 1.200 χ^2/NDF : 2143821.5/32

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

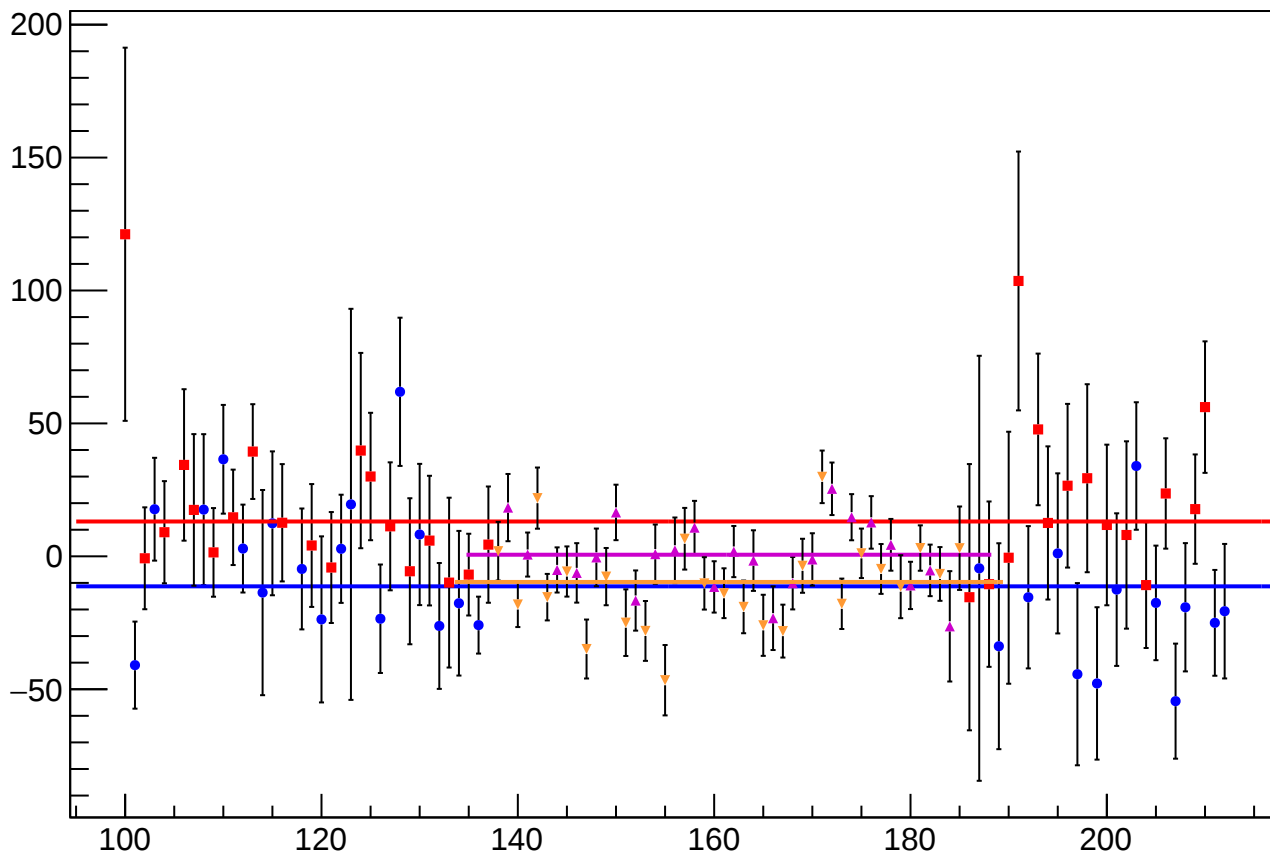
Right: 6616.993 $\pm$ 0.854 χ^2/NDF : 3748126.0/62

In: 6832.582 $\pm$ 0.855 χ^2/NDF : 2201709.0/52

Out: 6857.360 $\pm$ 0.841 χ^2/NDF : 2611889.4/57

All: 6845.178 $\pm$ 0.599 χ^2/NDF : 4814025.6/111

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -11.294 $\pm$ 4.200 χ^2/NDF : 36.0/29

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 13.103 $\pm$ 4.253 χ^2/NDF : 21.7/32

Left In: 0.599 $\pm$ 2.135 χ^2/NDF : 29.7/22

Left: -4.710 $\pm$ 1.481 χ^2/NDF : 99.2/47

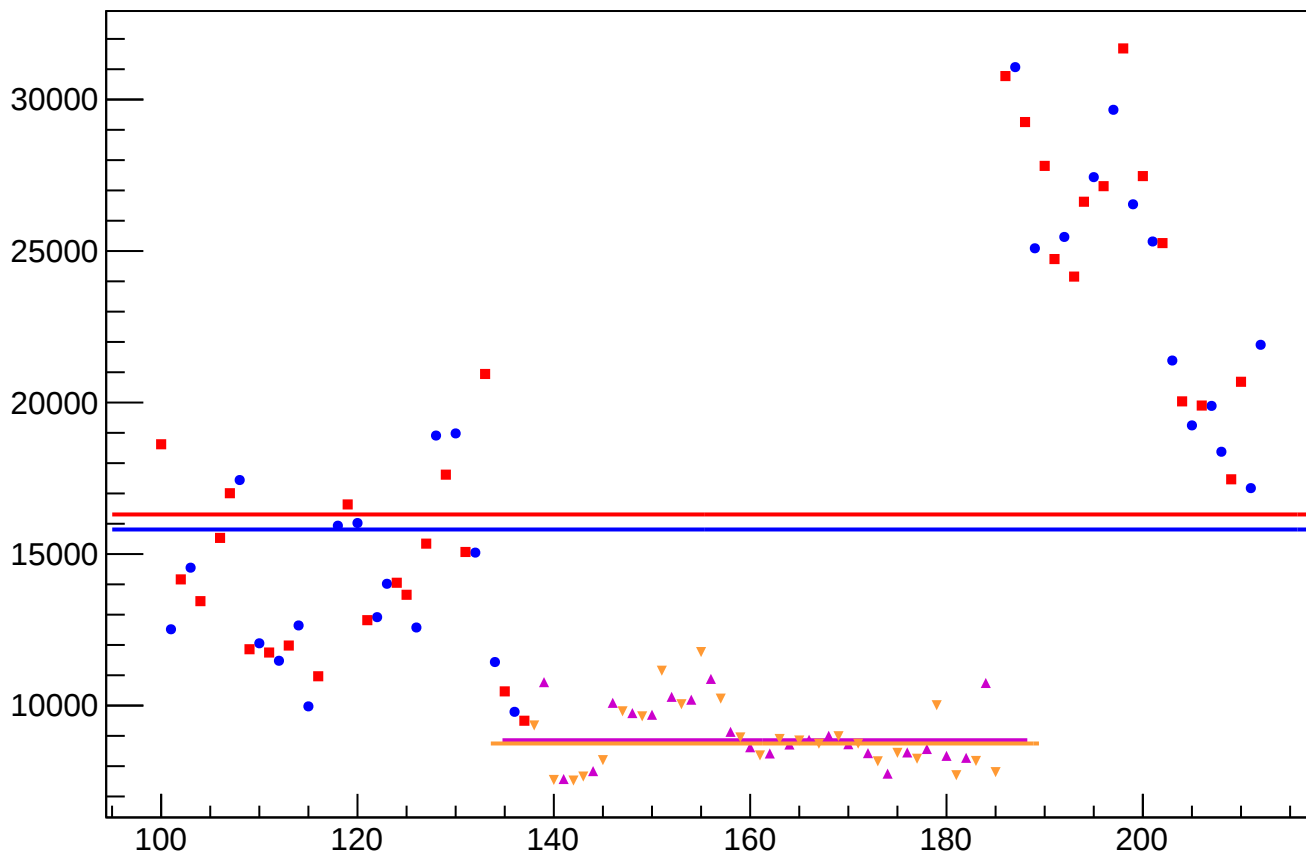
Right: 0.751 $\pm$ 2.989 χ^2/NDF : 74.3/62

In: -1.843 $\pm$ 1.903 χ^2/NDF : 72.0/52

Out: -5.328 $\pm$ 1.852 χ^2/NDF : 102.5/57

All: -3.633 $\pm$ 1.327 χ^2/NDF : 176.2/110

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15810.578 $\pm$ 2.970 χ^2 /NDF: 3188644.5/29

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF: 463394.1/24

Right Out: 16306.631 $\pm$ 3.008 χ^2 /NDF: 3512418.1/32

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

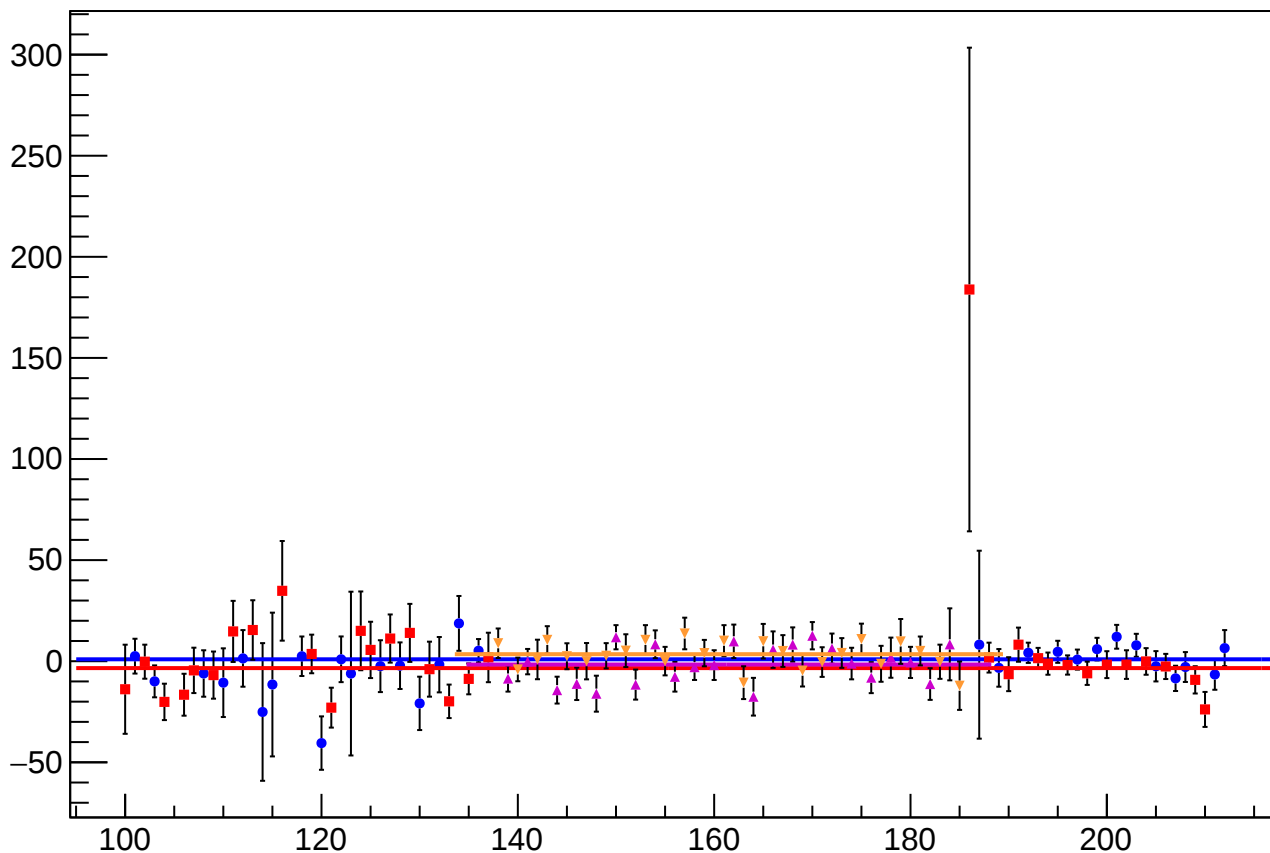
Right: 16055.478 $\pm$ 2.113 χ^2 /NDF: 6714835.8/62

In: 10283.744 $\pm$ 1.346 χ^2 /NDF: 7914239.7/52

Out: 10181.396 $\pm$ 1.310 χ^2 /NDF: 9093965.4/57

All: 10231.174 $\pm$ 0.939 χ^2 /NDF: 17011175.8

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.946 ± 1.504 χ^2/NDF : 29.7/29

Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24

Right Out: -3.408 ± 1.461 χ^2/NDF : 37.4/32

Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47

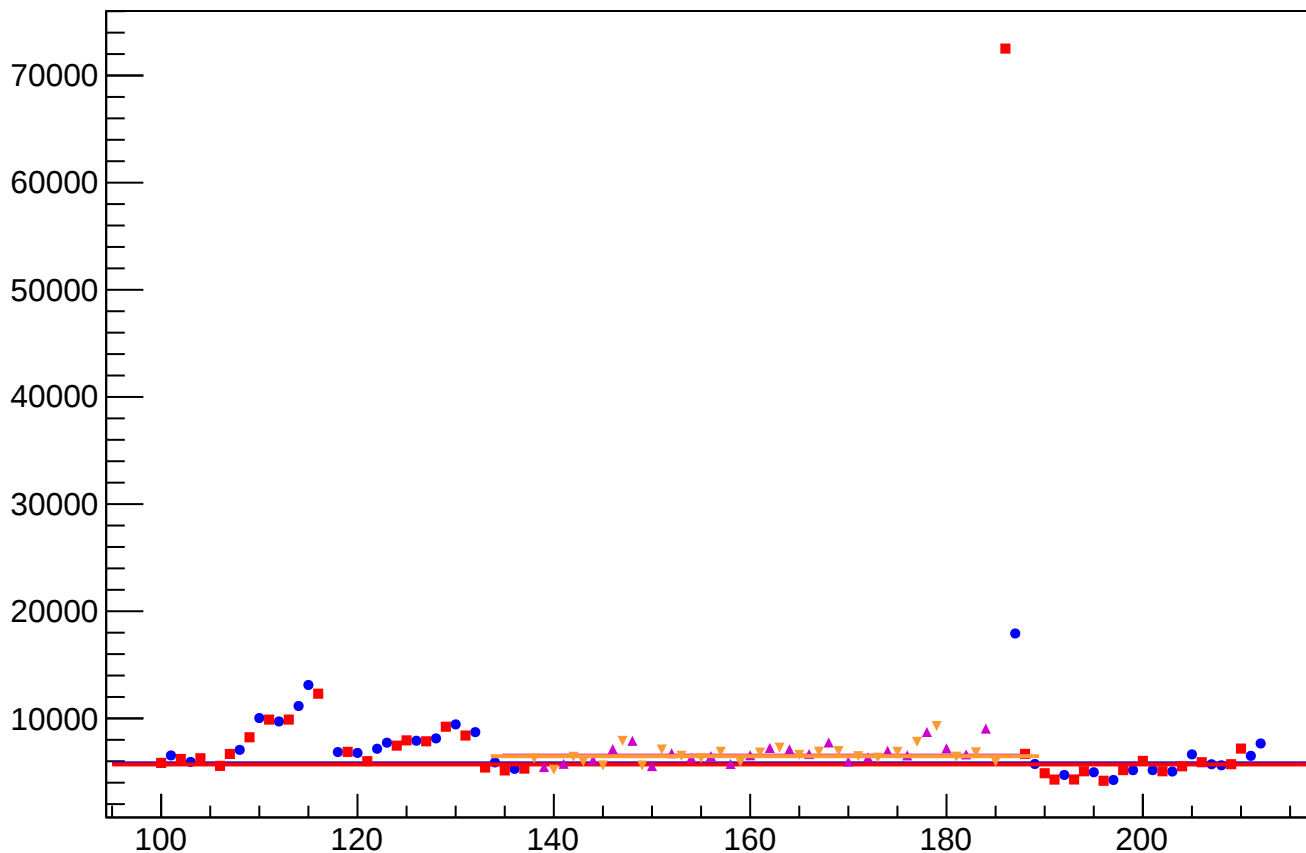
Right: -1.294 ± 1.048 χ^2/NDF : 71.4/62

In: -0.284 ± 1.089 χ^2/NDF : 64.8/52

Out: -0.112 ± 1.055 χ^2/NDF : 63.8/57

All: -0.196 ± 0.758 χ^2/NDF : 128.6/110

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5805.030+/-1.064

χ^2/NDF : 1603240.3/29

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

Left Out: 6471.976+/-1.078

χ^2/NDF : 490282.9/24

Right: 5752.369+/-0.741 χ^2/NDF : 3792021.4/62

Right Out: 5702.675+/-1.033

χ^2/NDF : 2184017.3/32

In: 6146.397+/-0.770 χ^2/NDF : 2299581.1/52

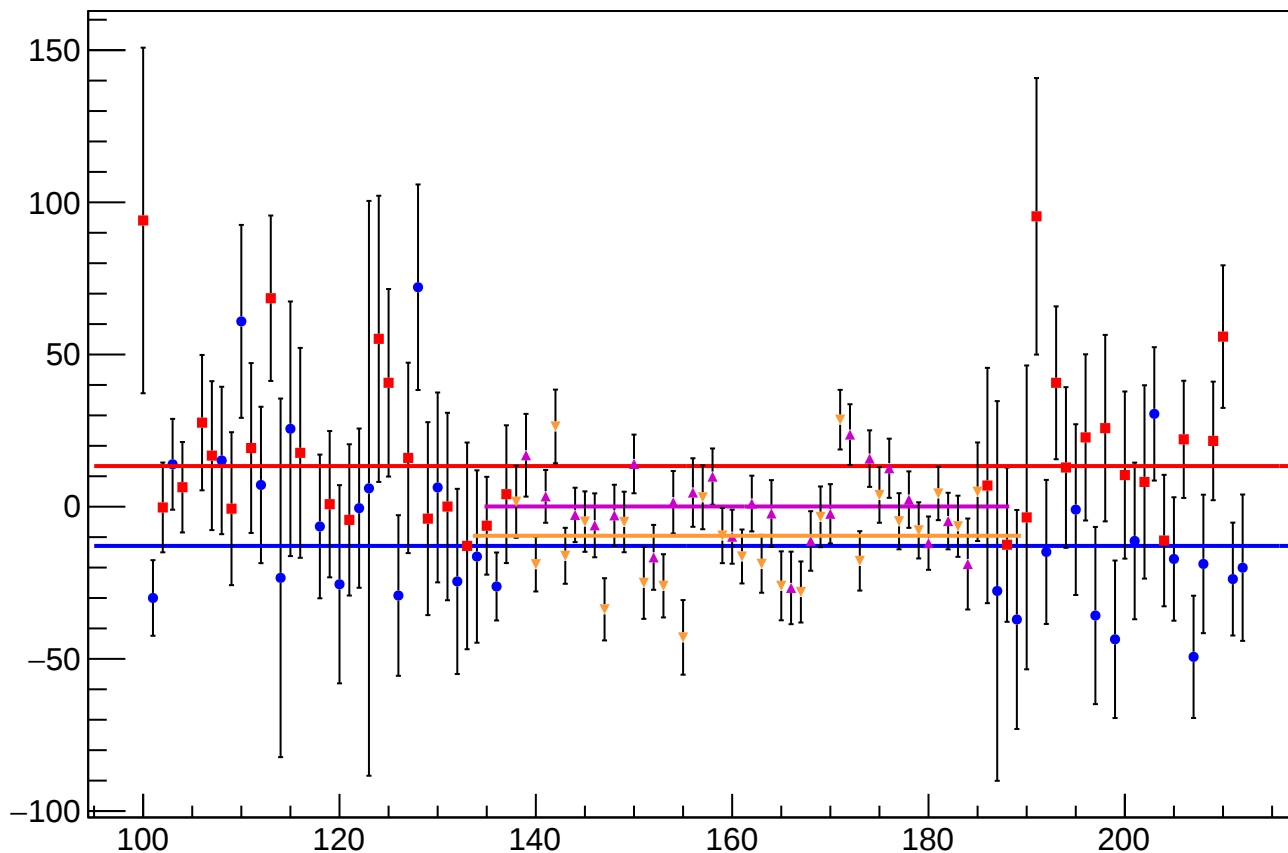
Out: 6071.101+/-0.746 χ^2/NDF : 2939757.4/57

Left In: 6521.975+/-1.116

χ^2/NDF : 480034.7/22

All: 6107.558+/-0.536 χ^2/NDF : 5244272.3/11

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -12.888 ± 4.230 χ^2/NDF : 33.0/29

Left Out: -9.554 ± 2.012 χ^2/NDF : 59.5/24

Right Out: 13.352 ± 4.345 χ^2/NDF : 24.0/32

Left In: 0.072 ± 2.073 χ^2/NDF : 29.8/22

Left: -4.885 ± 1.444 χ^2/NDF : 100.5/47

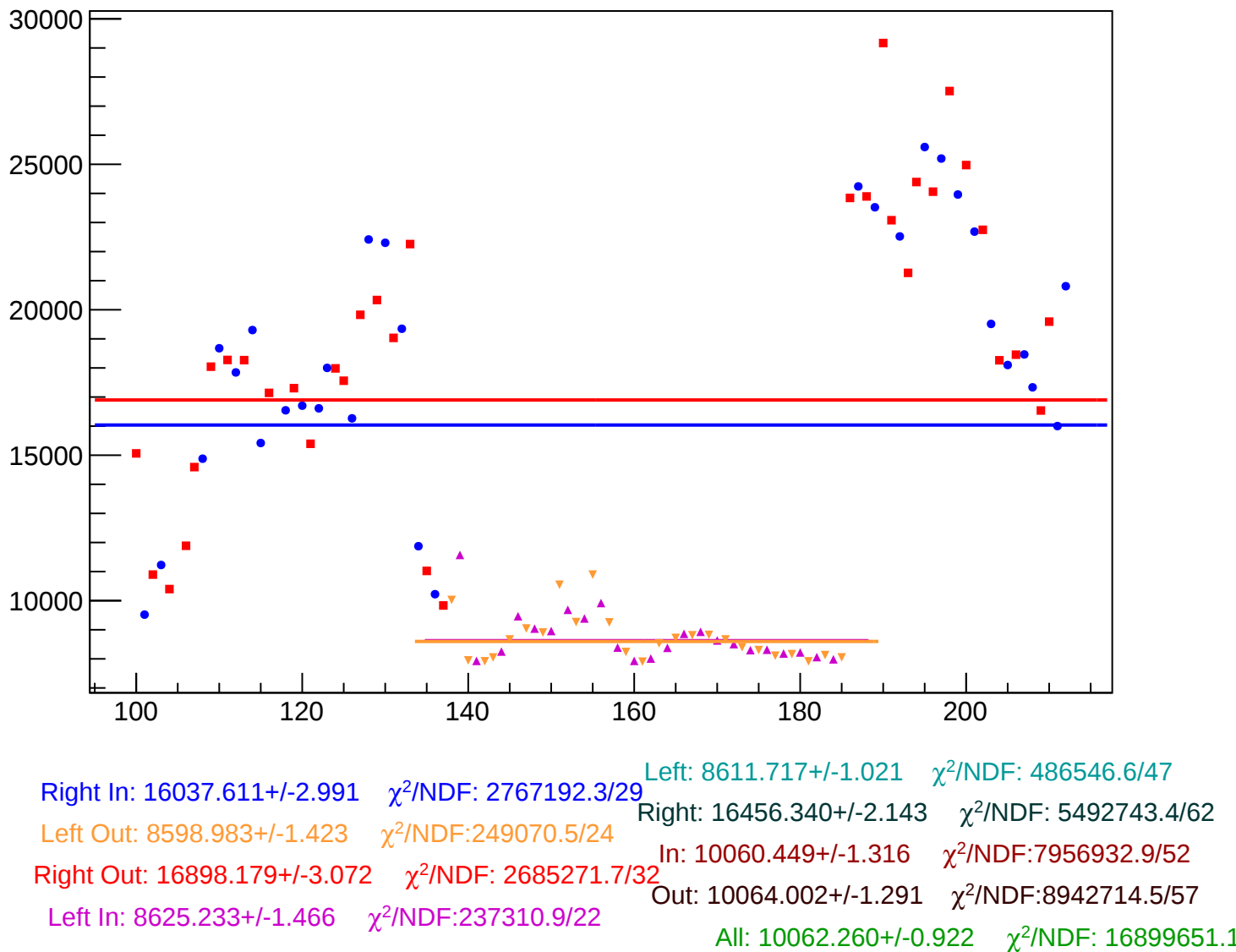
Right: -0.121 ± 3.031 χ^2/NDF : 75.8/62

In: -2.438 ± 1.861 χ^2/NDF : 70.4/52

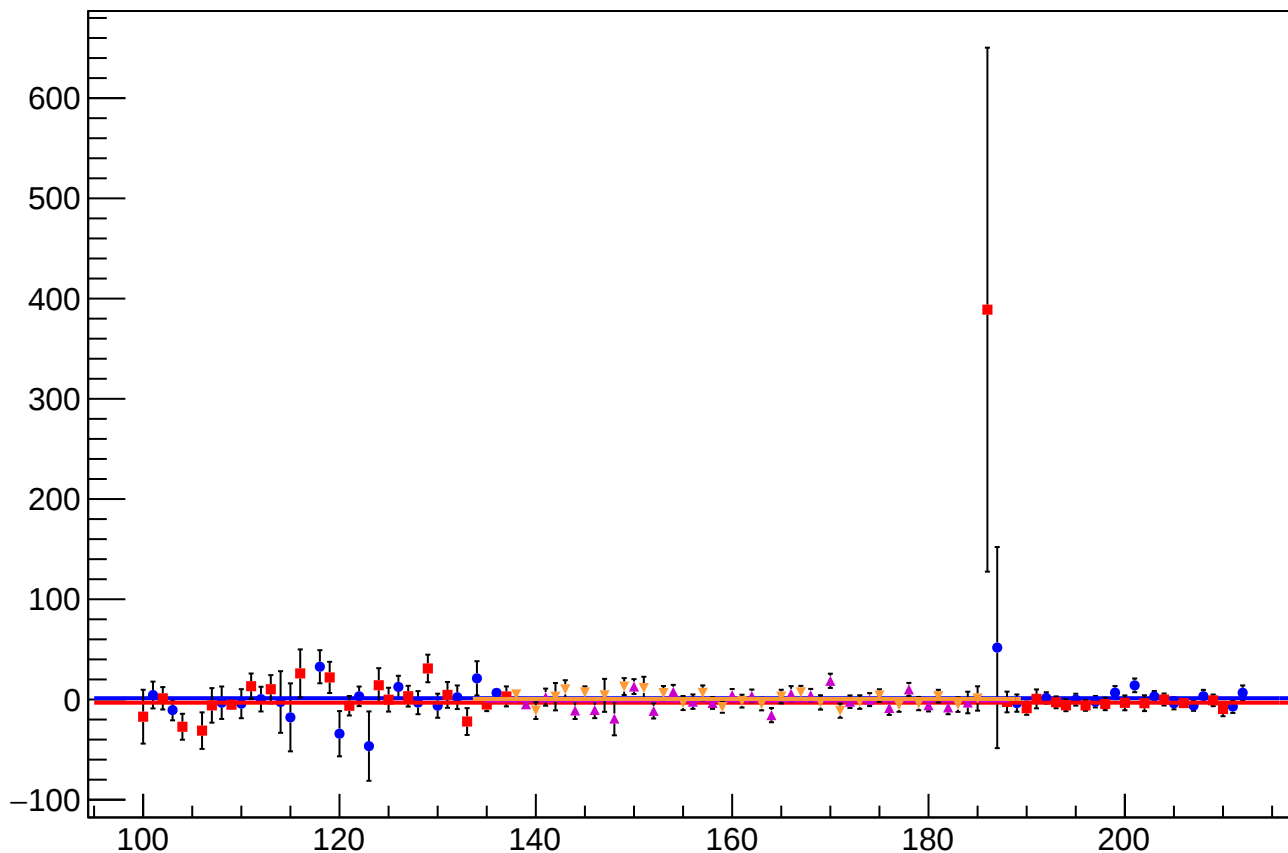
Out: -5.511 ± 1.826 χ^2/NDF : 106.5/57

All: -4.004 ± 1.303 χ^2/NDF : 178.3/110

diff_bpm1X_rms vs Slug, Sign Corrected



diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.282 ± 1.499 $\chi^2/\text{NDF}: 24.7/29$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -3.185 ± 1.444 $\chi^2/\text{NDF}: 28.5/32$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

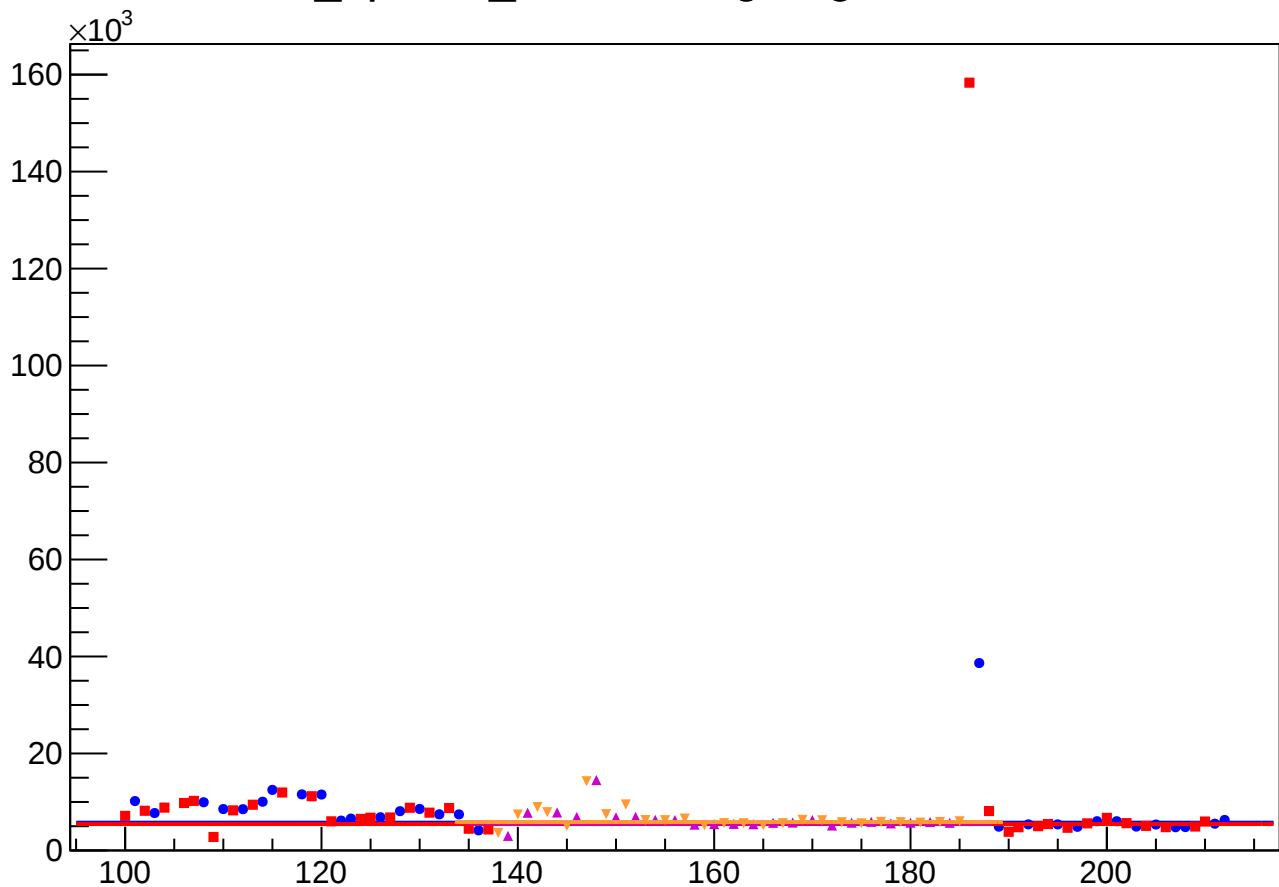
Right: -1.035 ± 1.040 $\chi^2/\text{NDF}: 57.8/62$

In: 0.033 ± 1.021 $\chi^2/\text{NDF}: 58.5/52$

Out: -1.295 ± 1.012 $\chi^2/\text{NDF}: 51.4/57$

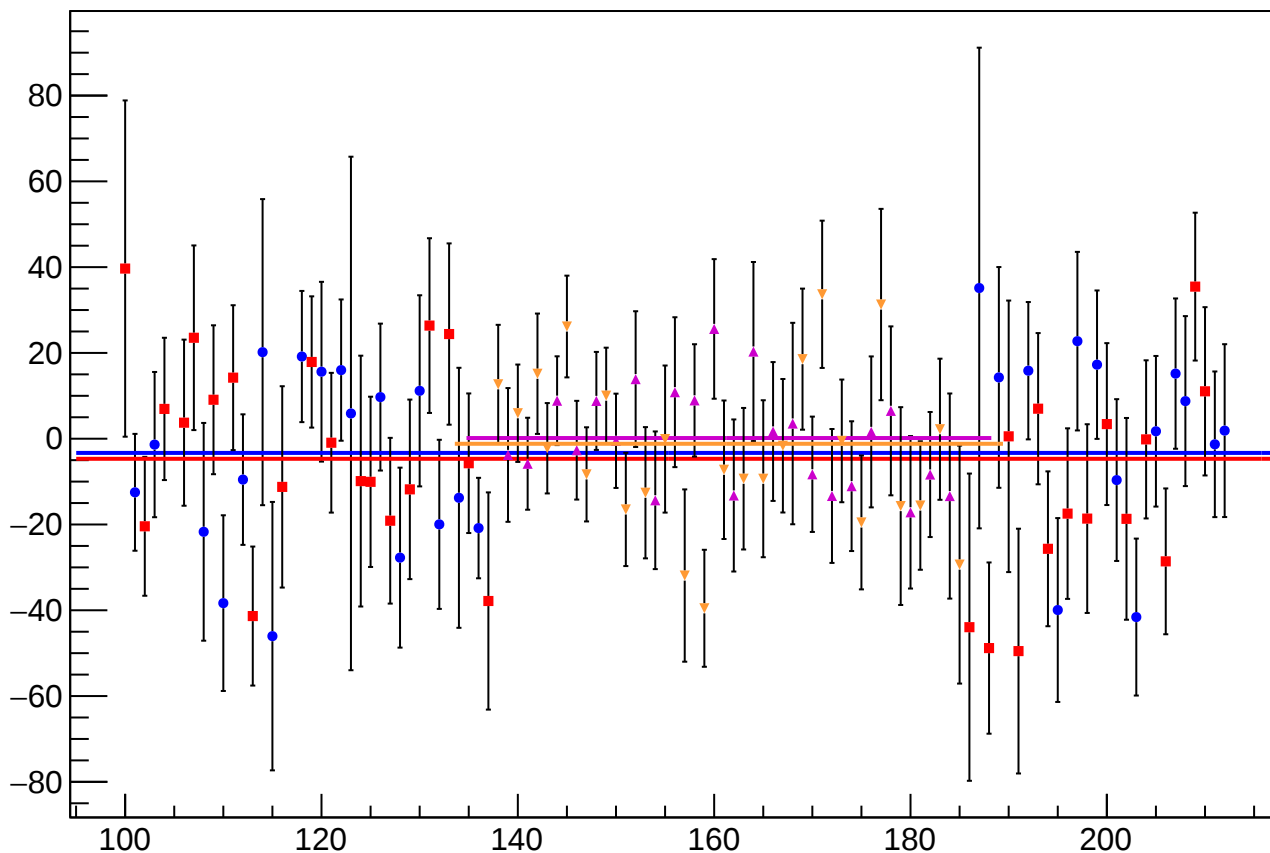
All: -0.637 ± 0.719 $\chi^2/\text{NDF}: 110.7/110$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5722.541 $\pm$ 1.060	χ^2/NDF : 2110132.5/29	Left: 5713.698 $\pm$ 0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605 $\pm$ 1.002	χ^2/NDF : 1690049.2/24	Right: 5579.972 $\pm$ 0.735	χ^2/NDF : 5606915.2/62
Right Out: 5447.707 $\pm$ 1.021	χ^2/NDF : 3461912.9/32	In: 5641.532 $\pm$ 0.722	χ^2/NDF : 4283822.0/52
Left In: 5571.330 $\pm$ 0.987	χ^2/NDF : 2162788.3/22	Out: 5657.953 $\pm$ 0.715	χ^2/NDF : 5235235.2/57
		All: 5649.822 $\pm$ 0.508	χ^2/NDF : 9519318.2/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.313 ± 3.483 $\chi^2/\text{NDF}: 30.6/29$

Left Out: -1.182 ± 2.939 $\chi^2/\text{NDF}: 33.7/24$

Right Out: -4.683 ± 3.421 $\chi^2/\text{NDF}: 40.5/32$

Left In: 0.157 ± 3.058 $\chi^2/\text{NDF}: 11.5/22$

Left: -0.539 ± 2.119 $\chi^2/\text{NDF}: 45.3/47$

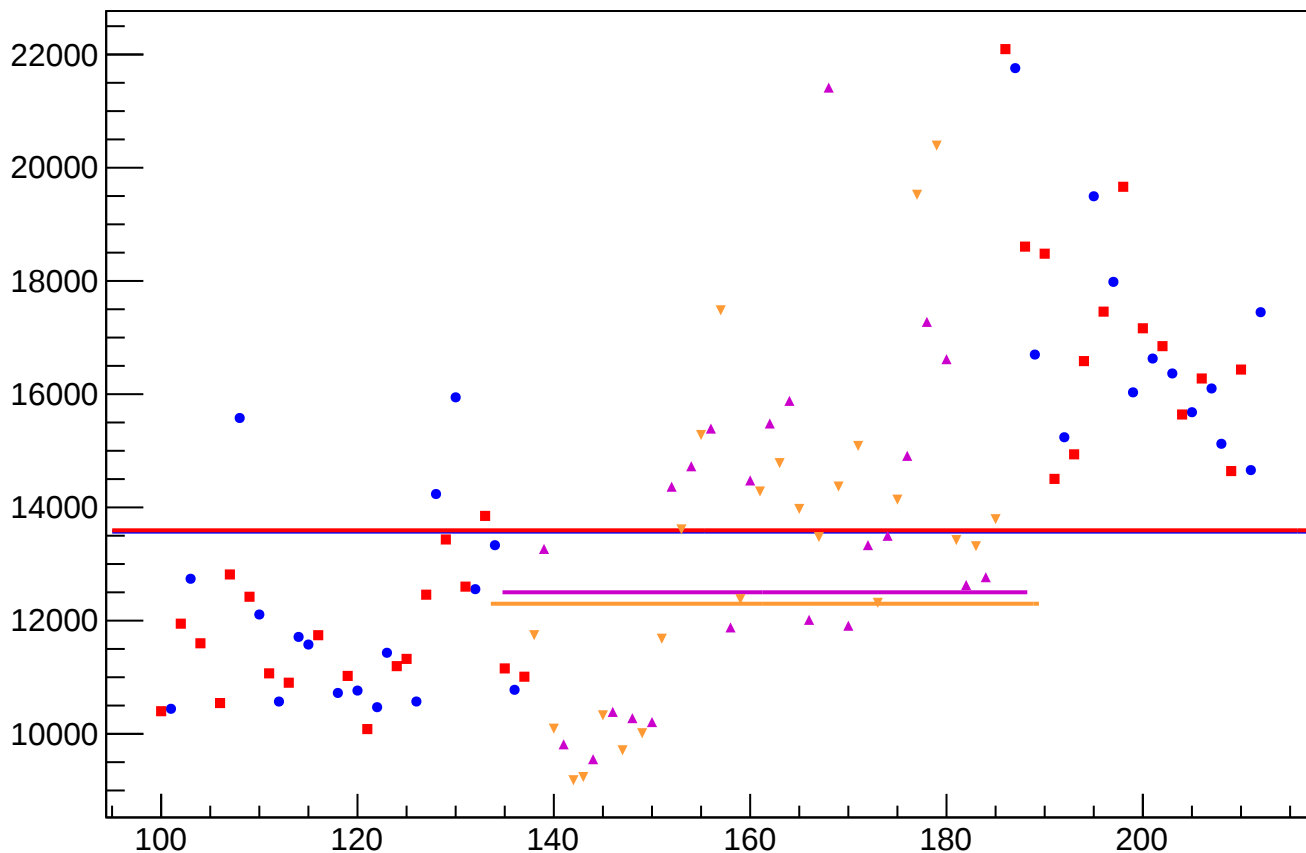
Right: -4.010 ± 2.441 $\chi^2/\text{NDF}: 71.2/62$

In: -1.354 ± 2.298 $\chi^2/\text{NDF}: 42.7/52$

Out: -2.669 ± 2.229 $\chi^2/\text{NDF}: 74.8/57$

All: -2.031 ± 1.600 $\chi^2/\text{NDF}: 117.6/110$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13572.364+/-2.463

χ^2/NDF : 1249758.7/29

Left: 12395.720+/-1.498 χ^2/NDF : 2868458.0/47

Left Out: 12298.676+/-2.078

χ^2/NDF : 1506026.8/24

Right: 13584.113+/-1.726 χ^2/NDF : 2569456.6/62

Right Out: 13595.448+/-2.419

χ^2/NDF : 1319653.1/32

In: 12967.273+/-1.625 χ^2/NDF : 2714552.8/52

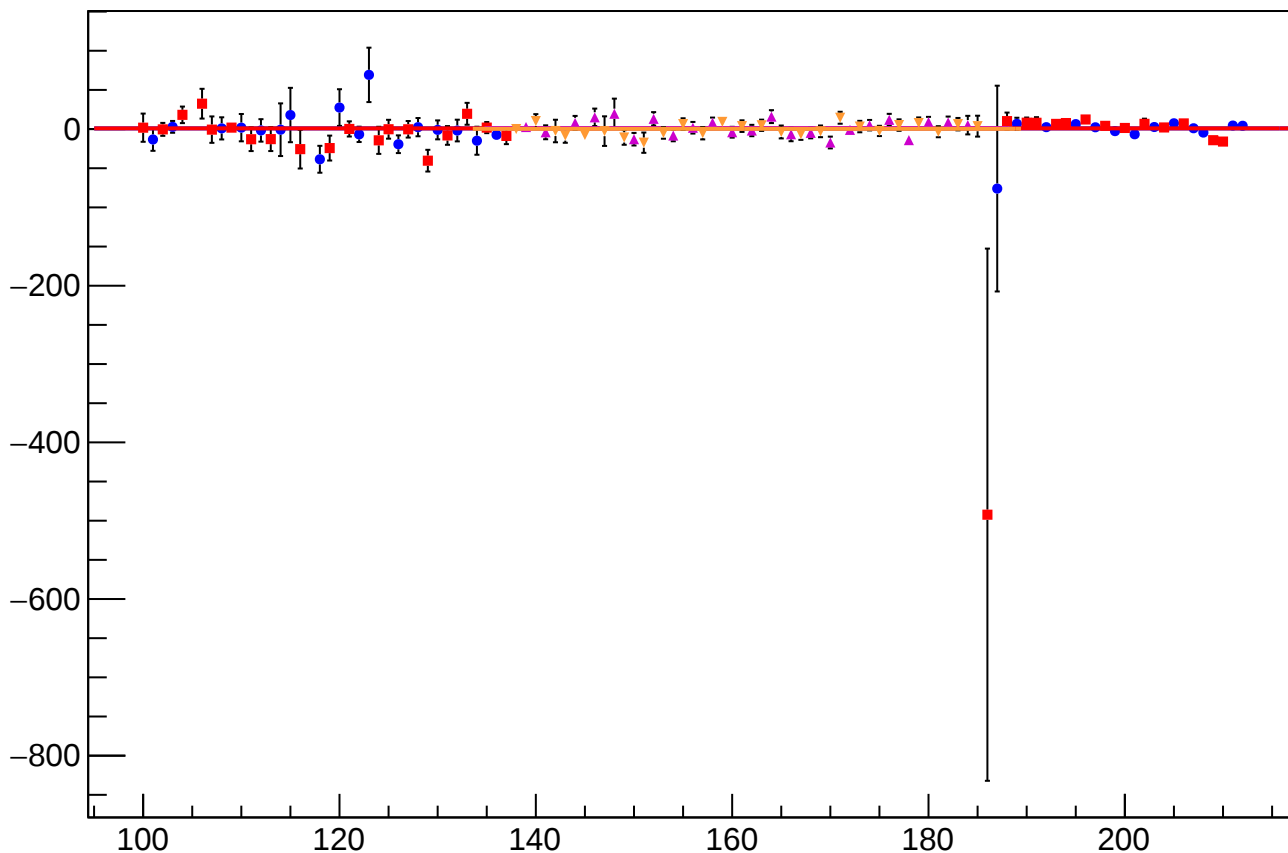
Out: 12849.317+/-1.576 χ^2/NDF : 2991031.4/57

Left In: 12500.795+/-2.162

χ^2/NDF : 1357889.1/22

All: 12906.505+/-1.131 χ^2/NDF : 5708299.0/1

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.864 ± 1.226 $\chi^2/\text{NDF}: 29.5/29$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: 0.890 ± 1.231 $\chi^2/\text{NDF}: 67.7/32$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

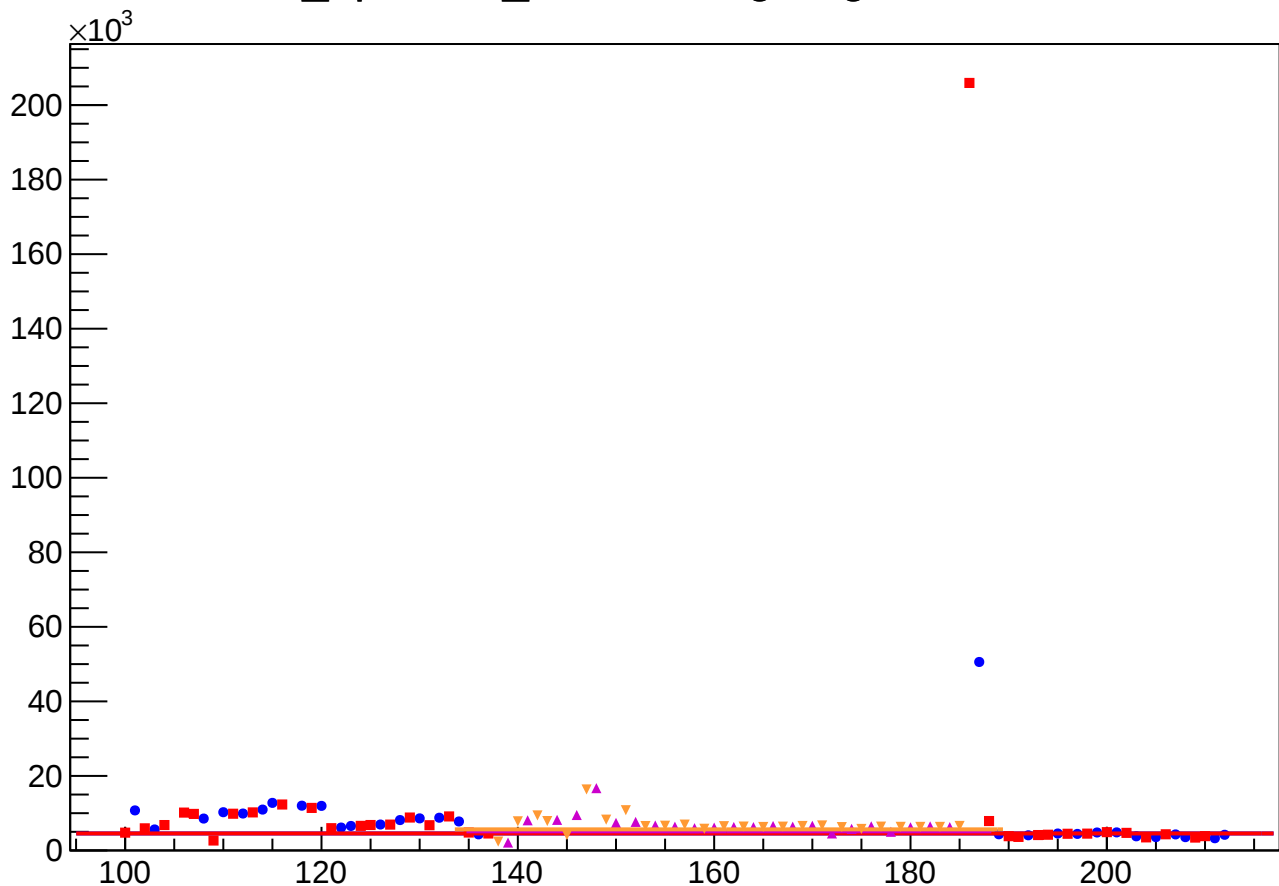
Right: 0.877 ± 0.869 $\chi^2/\text{NDF}: 97.1/62$

In: 0.998 ± 0.914 $\chi^2/\text{NDF}: 63.1/52$

Out: 0.662 ± 0.934 $\chi^2/\text{NDF}: 86.9/57$

All: 0.834 ± 0.653 $\chi^2/\text{NDF}: 150.0/110$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4562.130 $\pm$ 0.867 χ^2/NDF : 3436381.3/29

Left Out: 5659.441 $\pm$ 1.014 χ^2/NDF : 4128583.6/24

Right Out: 4560.503 $\pm$ 0.871 χ^2/NDF : 3958886.0/32

Left In: 5137.772 $\pm$ 0.970 χ^2/NDF : 5495609.7/22

Left: 5387.078 $\pm$ 0.701 χ^2/NDF : 9762498.7/47

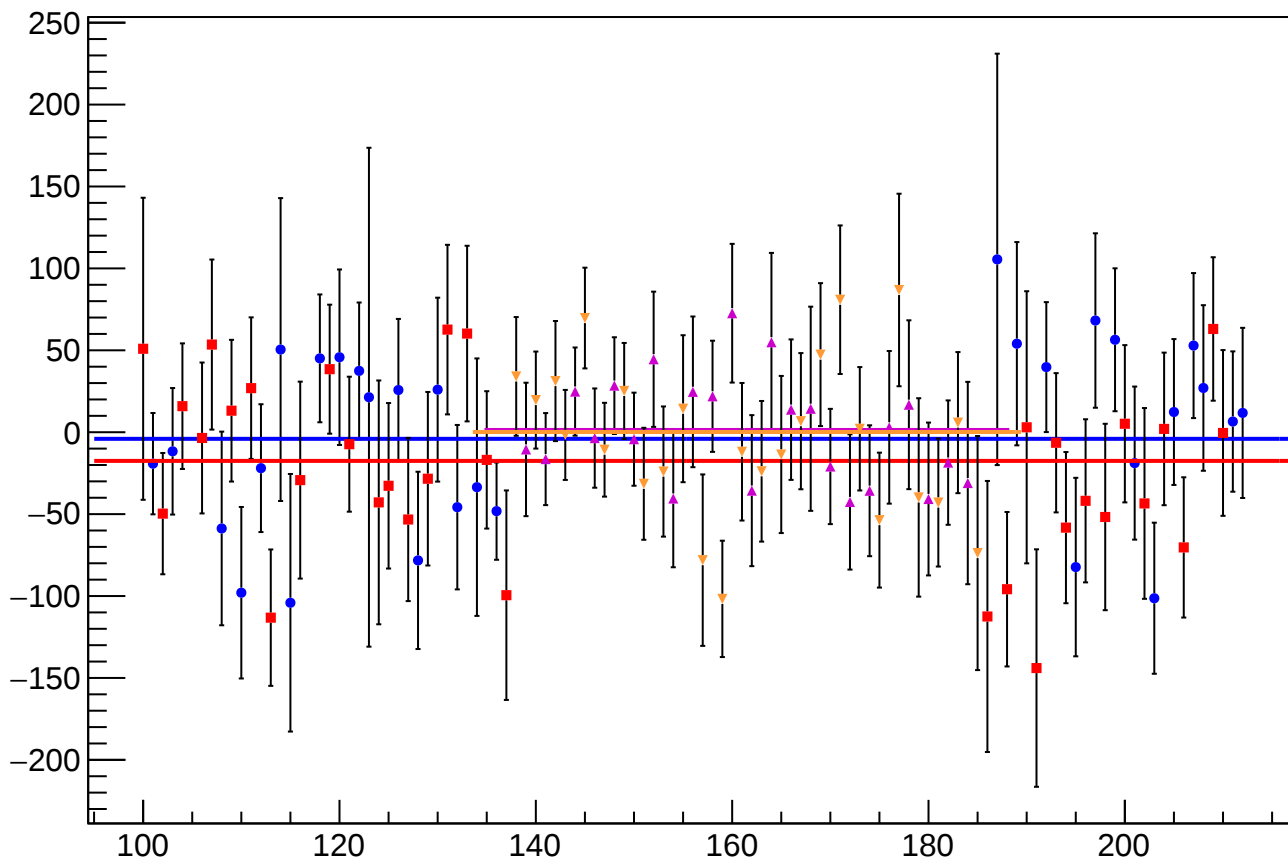
Right: 4561.320 $\pm$ 0.614 χ^2/NDF : 7395269.0/62

In: 4817.849 $\pm$ 0.646 χ^2/NDF : 9127834.5/52

Out: 5027.117 $\pm$ 0.660 χ^2/NDF : 8763876.5/57

All: 4920.220 $\pm$ 0.462 χ^2/NDF : 17942995.0/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -4.036 $\pm$ 8.693 χ^2/NDF : 31.2/29

Left Out: 0.143 $\pm$ 7.683 χ^2/NDF : 31.3/24

Right Out: -17.508 $\pm$ 8.540 χ^2/NDF : 34.2/32

Left In: 1.374 $\pm$ 7.990 χ^2/NDF : 13.3/22

Left: 0.734 $\pm$ 5.538 χ^2/NDF : 44.6/47

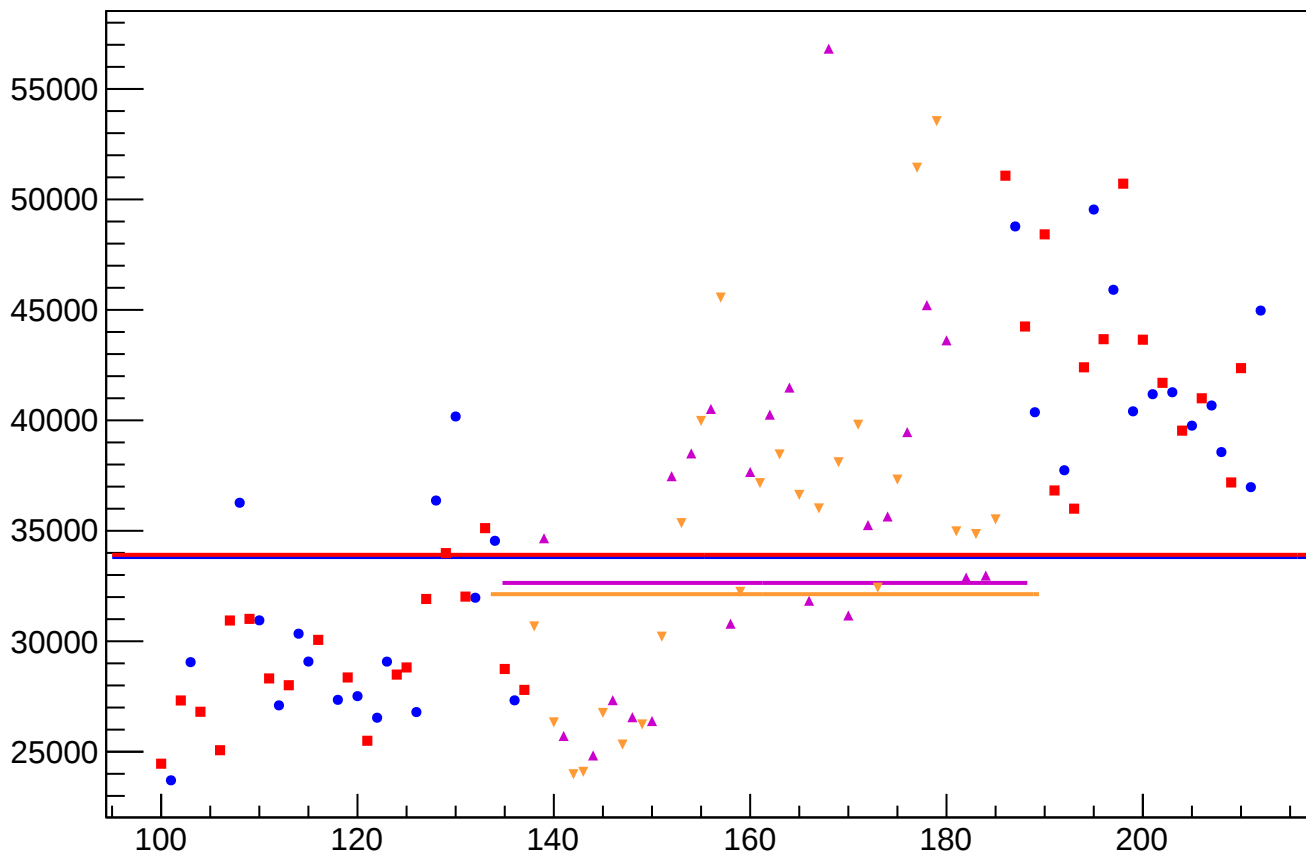
Right: -10.892 $\pm$ 6.092 χ^2/NDF : 66.6/62

In: -1.104 $\pm$ 5.883 χ^2/NDF : 44.7/52

Out: -7.753 $\pm$ 5.712 χ^2/NDF : 67.8/57

All: -4.526 $\pm$ 4.098 χ^2/NDF : 113.2/110

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 33812.082+/-6.147

χ^2/NDF : 1341350.9/29

Left: 32376.774+/-3.916 χ^2/NDF : 2946456.2/47

Right: 33863.784+/-4.308 χ^2/NDF : 2714871.2/62

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

In: 33177.379+/-4.160 χ^2/NDF : 2763181.9/52

Right Out: 33913.683+/-6.039

χ^2/NDF : 1373381.3/32

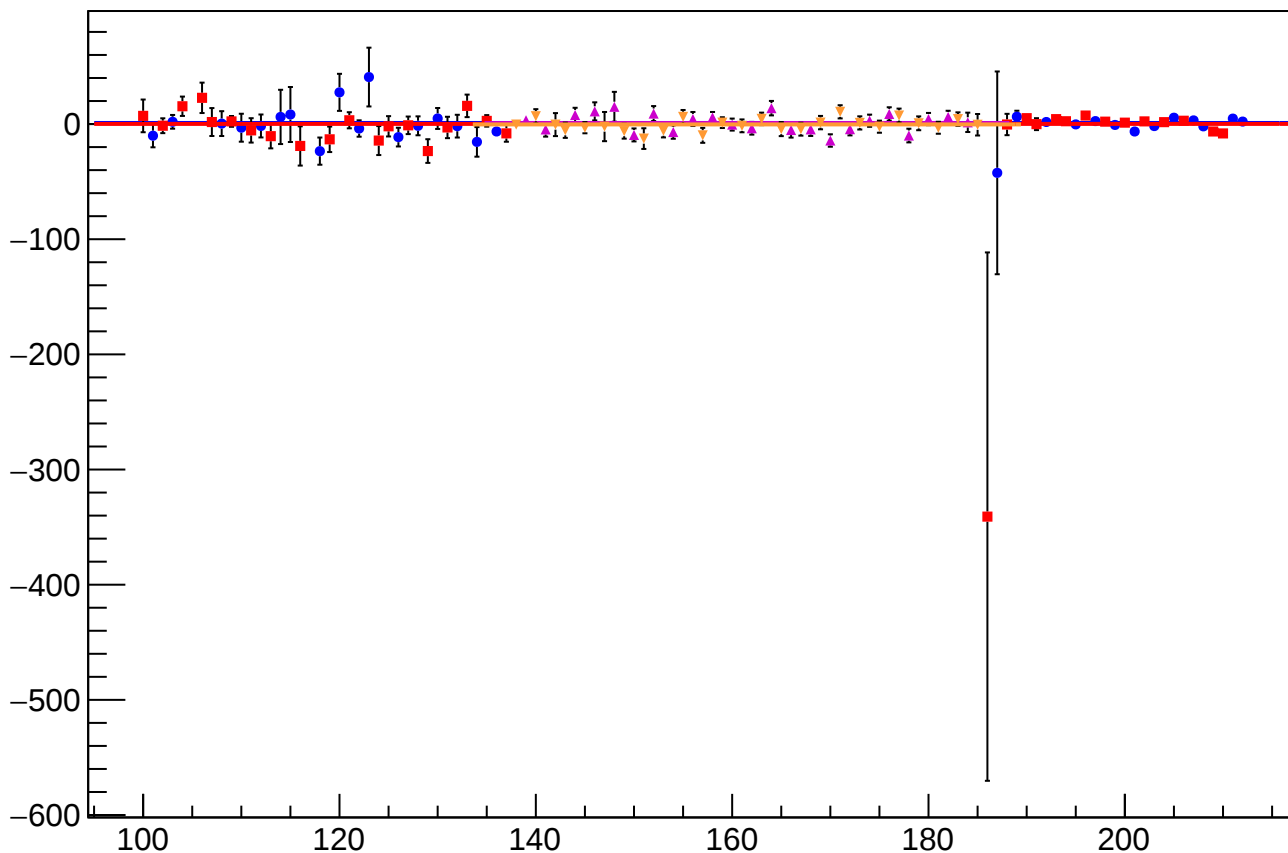
Out: 32929.155+/-4.039 χ^2/NDF : 2961551.8/57

Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

All: 33049.610+/-2.898 χ^2/NDF : 5726566.5/131

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.933 $\pm$ 0.731 χ^2/NDF : 38.6/29

Left Out: -0.312 $\pm$ 1.172 χ^2/NDF : 17.6/24

Right Out: 0.133 $\pm$ 0.780 χ^2/NDF : 55.7/32

Left In: 0.908 $\pm$ 1.142 χ^2/NDF : 36.2/22

Left: 0.313 $\pm$ 0.818 χ^2/NDF : 54.4/47

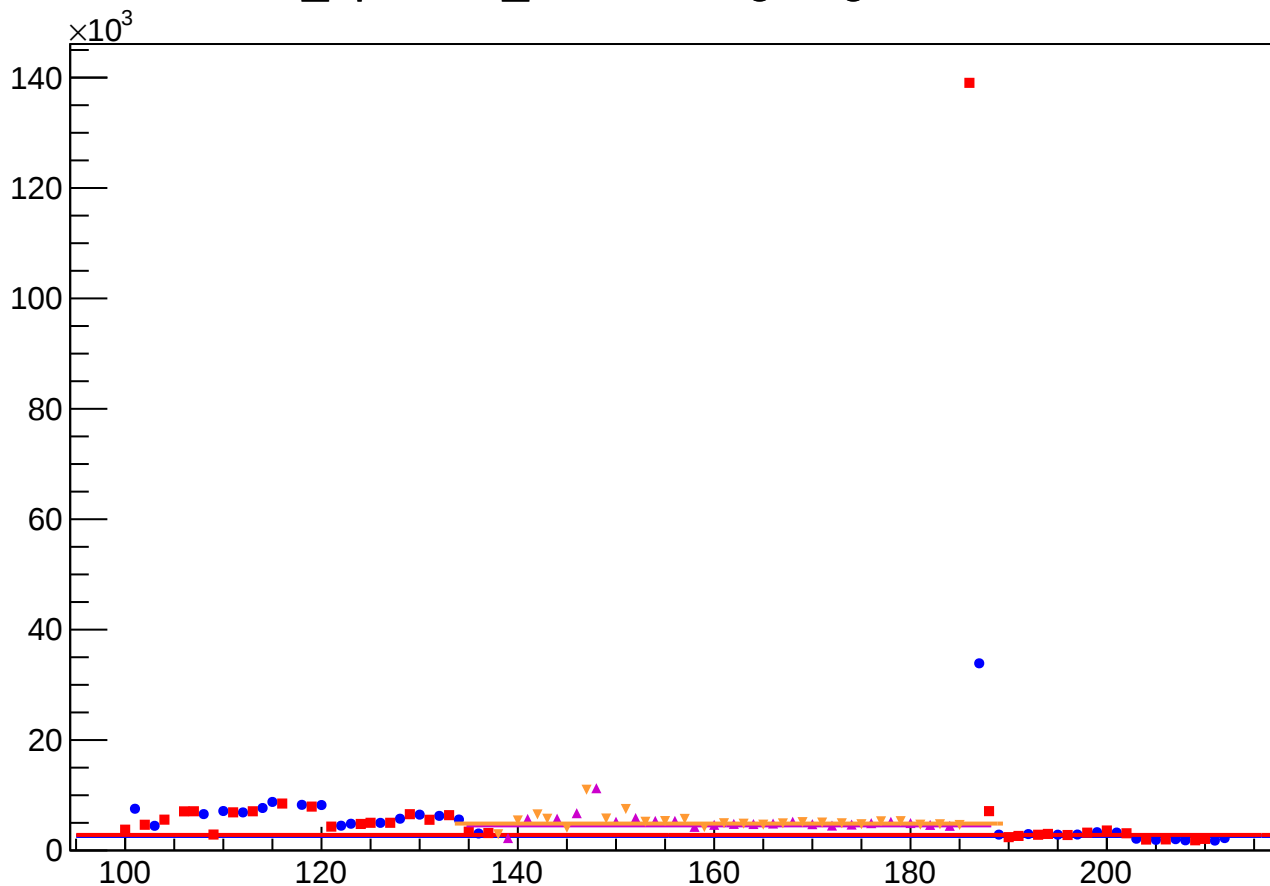
Right: 0.559 $\pm$ 0.533 χ^2/NDF : 94.9/62

In: 0.926 $\pm$ 0.616 χ^2/NDF : 74.8/52

Out: -0.004 $\pm$ 0.649 χ^2/NDF : 73.5/57

All: 0.485 $\pm$ 0.447 χ^2/NDF : 149.3/110

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2625.303 ± 0.517 $\chi^2/\text{NDF}: 5354841.3/29$

Left Out: 4868.567 ± 0.829 $\chi^2/\text{NDF}: 1511151.0/24$

Right Out: 2815.751 ± 0.551 $\chi^2/\text{NDF}: 5711868.2/32$

Left In: 4544.337 ± 0.808 $\chi^2/\text{NDF}: 2634314.4/22$

Left: 4702.320 ± 0.578 $\chi^2/\text{NDF}: 4223993.0/47$

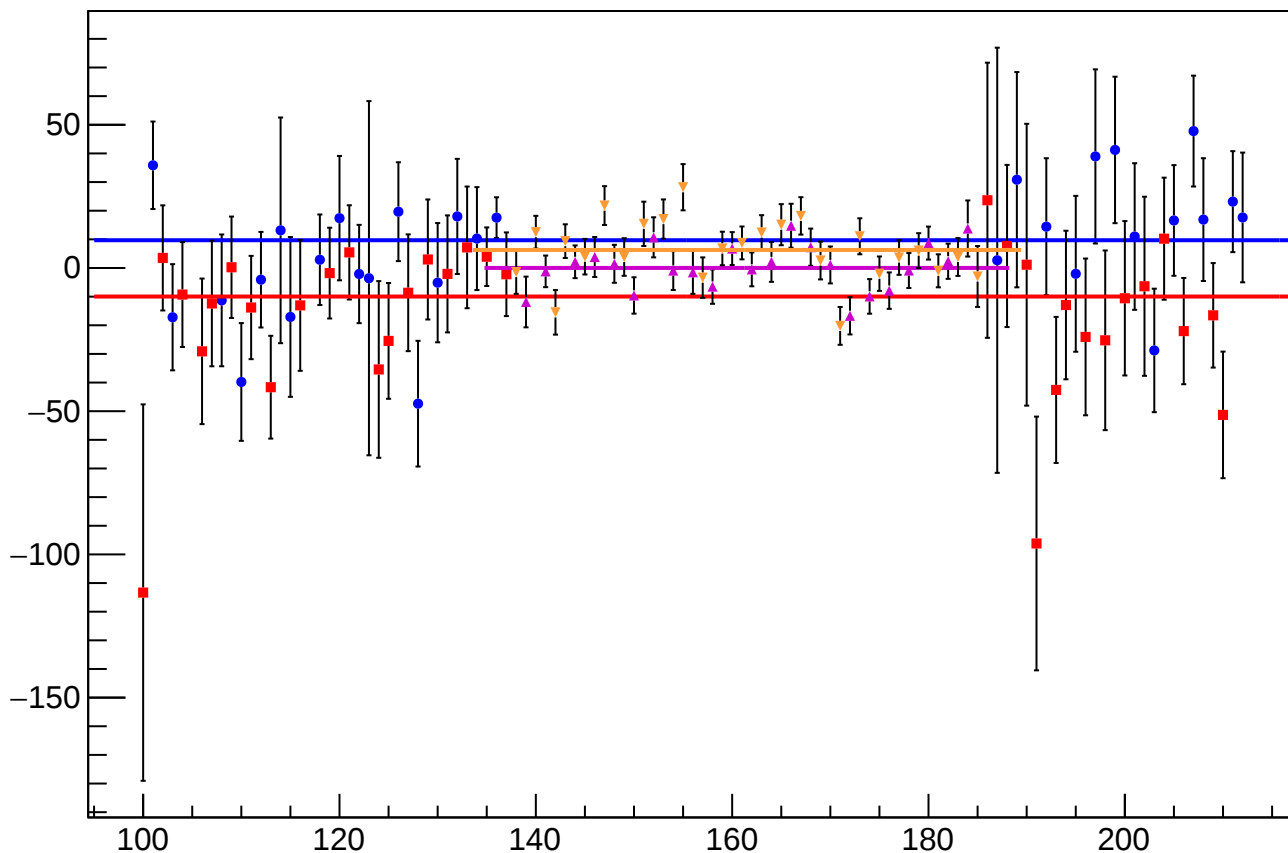
Right: 2714.383 ± 0.377 $\chi^2/\text{NDF}: 11130228.8/62$

In: 3182.799 ± 0.435 $\chi^2/\text{NDF}: 11994764.5/52$

Out: 3445.744 ± 0.459 $\chi^2/\text{NDF}: 11478152.1/57$

All: 3307.320 ± 0.316 $\chi^2/\text{NDF}: 23645700.9/101$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 9.692 $\pm$ 3.475 χ^2/NDF : 34.1/29

Left Out: 6.296 $\pm$ 1.310 χ^2/NDF :56.5/24

Right Out: -9.961 $\pm$ -3.619 χ^2/NDF : 24.7/32

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

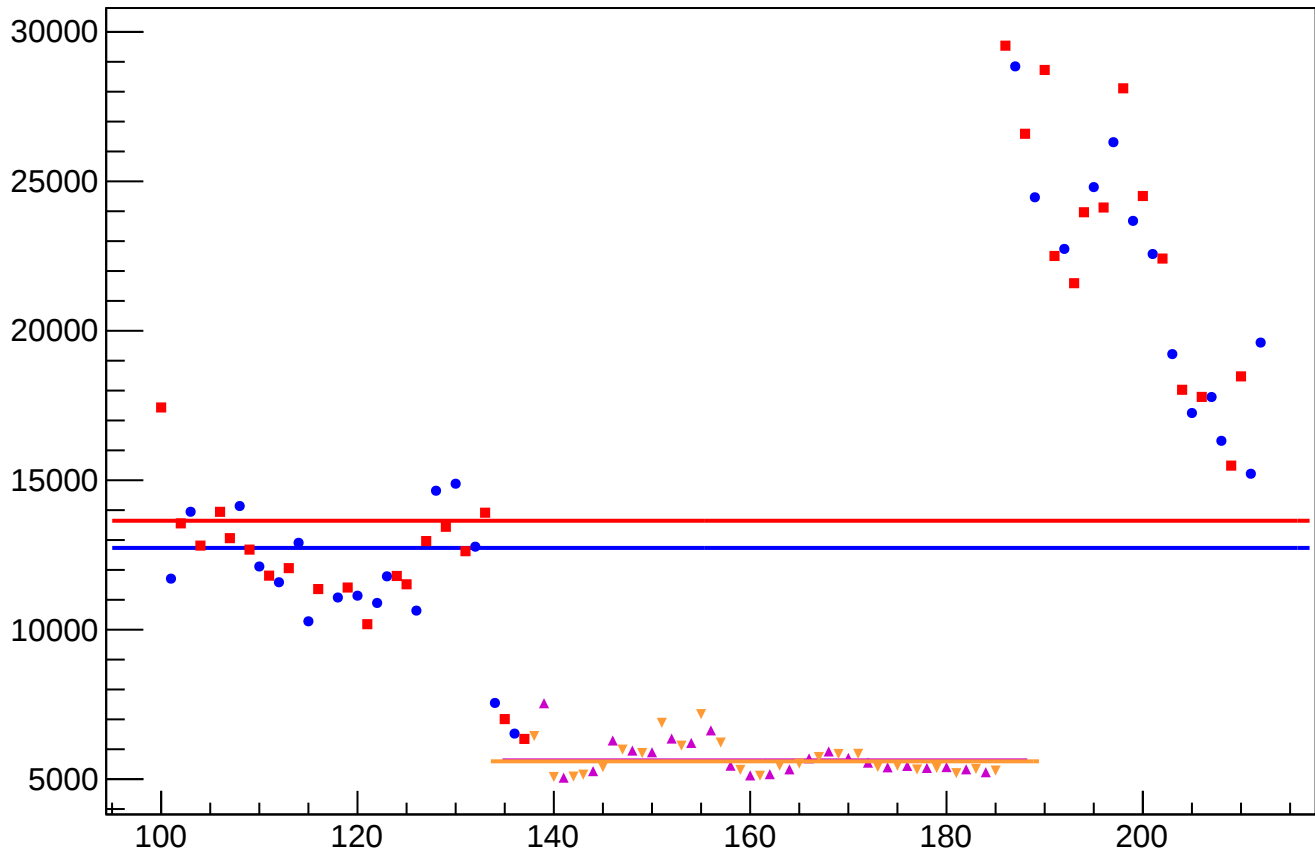
Right: 0.262 $\pm$ -2.507 χ^2/NDF : 74.1/62

In: 1.293 $\pm$ -1.261 χ^2/NDF :70.8/52

Out: 4.411 $\pm$ -1.232 χ^2/NDF :99.0/57

All: 2.889 $\pm$ -0.881 χ^2/NDF : 172.9/110

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12735.857 $\pm$ 2.457 χ^2 /NDF: 4665540.8/29

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF:283998.1/24

Right Out: 13644.981 $\pm$ 2.559 χ^2 /NDF: 4500414.1/32

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

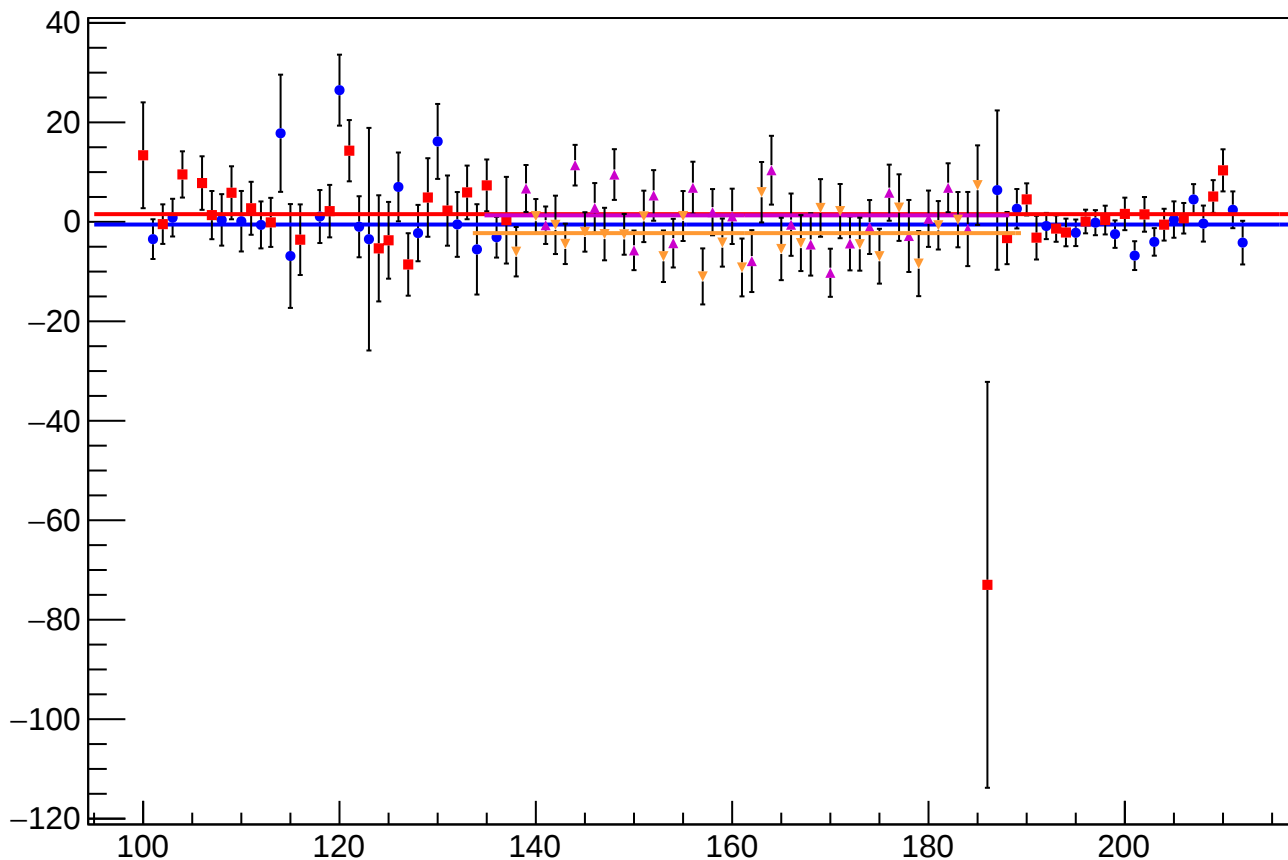
Right: 13172.054 $\pm$ 1.772 χ^2 /NDF: 9231625.2/62

In: 6563.043 $\pm$ 0.892 χ^2 /NDF:12211415.7/52

Out: 6529.211 $\pm$ 0.871 χ^2 /NDF:13532127.0/57

All: 6545.734 $\pm$ 0.623 χ^2 /NDF: 25744279.5/111

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.540 $\pm$ 0.750 χ^2/NDF : 36.9/29

Left Out: -2.268 $\pm$ 1.029 χ^2/NDF : 15.4/24

Right Out: 1.548 $\pm$ 0.737 χ^2/NDF : 32.7/32

Left In: 1.305 $\pm$ 1.077 χ^2/NDF : 30.8/22

Left: -0.562 $\pm$ 0.744 χ^2/NDF : 51.9/47

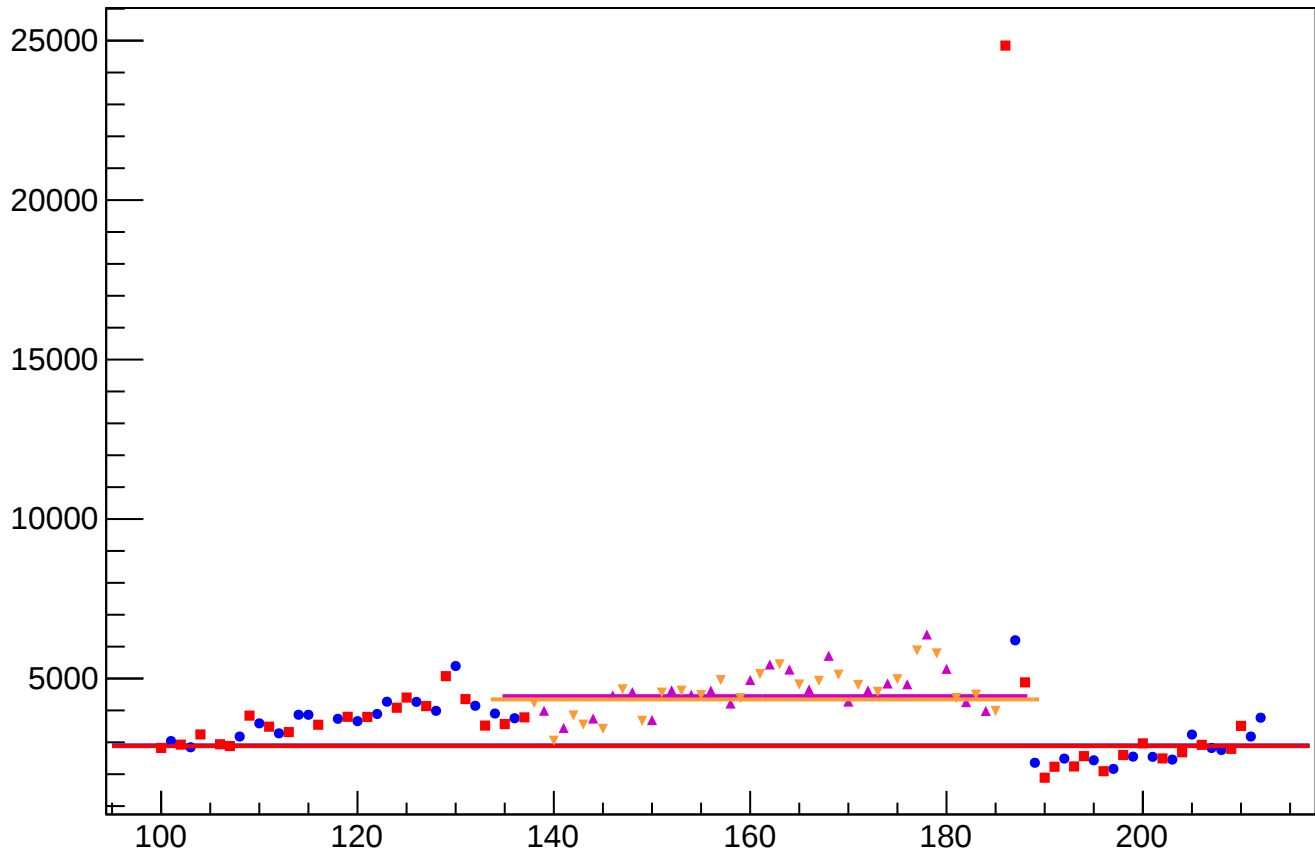
Right: 0.522 $\pm$ 0.526 χ^2/NDF : 73.5/62

In: 0.062 $\pm$ 0.616 χ^2/NDF : 69.7/52

Out: 0.255 $\pm$ 0.599 χ^2/NDF : 57.1/57

All: 0.161 $\pm$ 0.429 χ^2/NDF : 126.9/110

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2902.877+/-0.530

χ^2/NDF : 1390698.9/29

Left Out: 4345.381+/-0.728

χ^2/NDF : 1000636.1/24

Right Out: 2880.716+/-0.521

χ^2/NDF : 2311536.7/32

Left In: 4446.181+/-0.762

χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526

χ^2/NDF : 1712588.4/47

Right: 2891.603+/-0.372

χ^2/NDF : 3703123.7/62

In: 3406.954+/-0.435

χ^2/NDF : 4858636.9/52

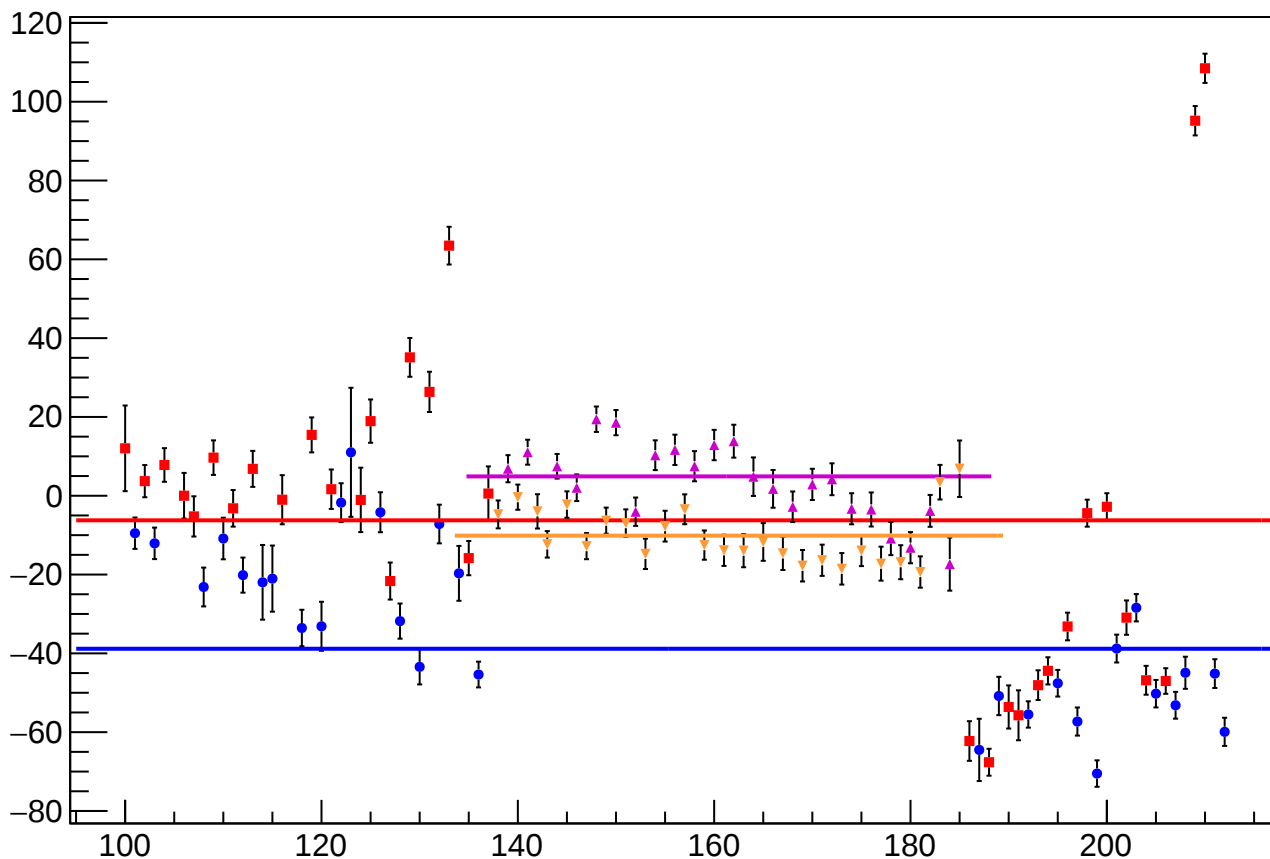
Out: 3377.117+/-0.424

χ^2/NDF : 5988641.6/57

All: 3391.637+/-0.304

χ^2/NDF : 10849690.8/100

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -38.831 ± 0.781 χ^2/NDF : 575.5/29

Left Out: -10.125 ± 0.775 χ^2/NDF : 67.9/24

Right Out: -6.237 ± 0.767 χ^2/NDF : 3330.4/32

Left In: 4.911 ± 0.797 χ^2/NDF : 127.9/22

Left: -2.814 ± 0.556 χ^2/NDF : 378.7/47

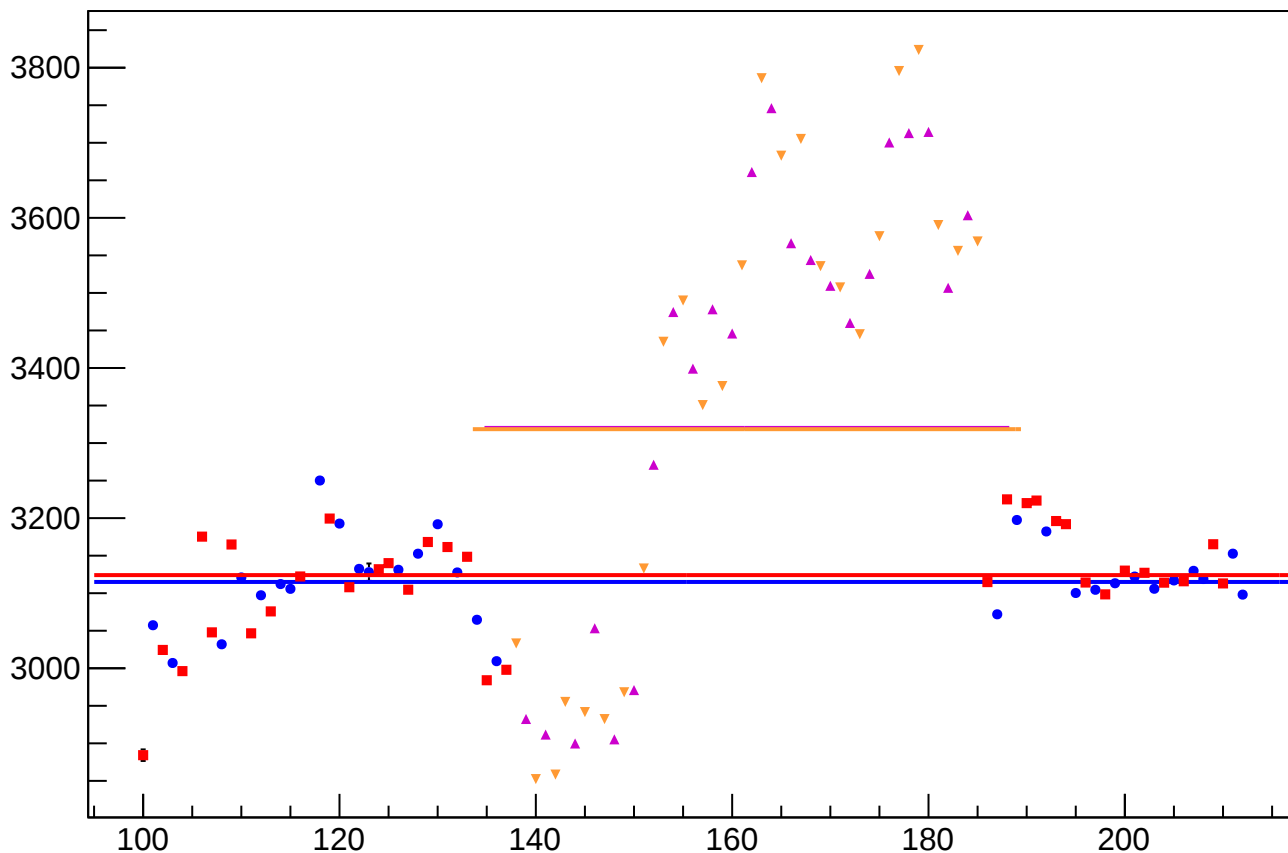
Right: -22.236 ± 0.547 χ^2/NDF : 4792.6/62

In: -17.405 ± 0.558 χ^2/NDF : 2239.8/52

Out: -8.159 ± 0.545 χ^2/NDF : 3411.1/57

All: -12.677 ± 0.390 χ^2/NDF : 5791.3/110

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3114.989 $\pm$ 0.552 χ^2 /NDF: 9311.1/29

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3124.100 $\pm$ 0.542 χ^2 /NDF: 14018.6/32

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

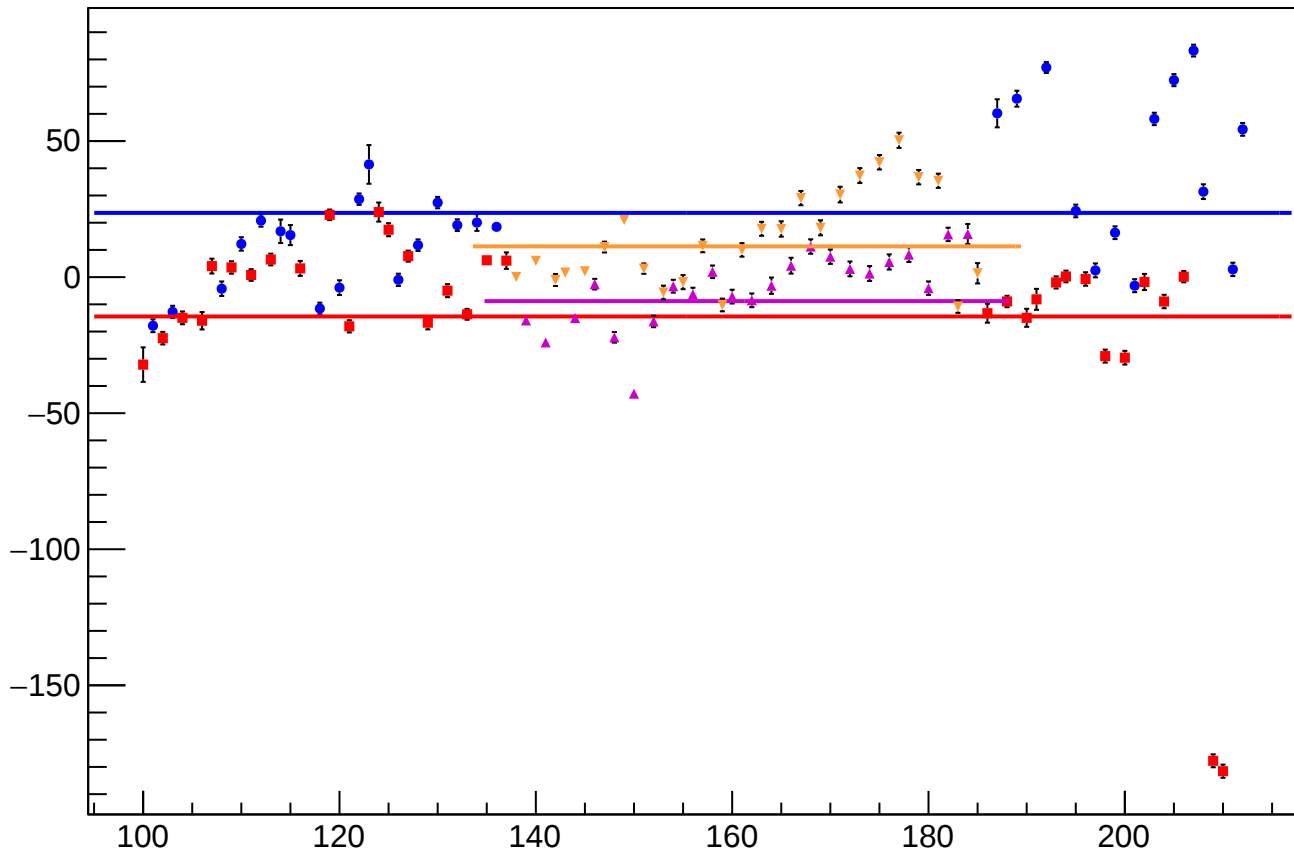
Right: 3119.628 $\pm$ 0.387 χ^2 /NDF: 23468.2/62

In: 3215.489 $\pm$ 0.394 χ^2 /NDF:364550.8/52

Out: 3220.225 $\pm$ 0.386 χ^2 /NDF:415259.6/57

All: 3217.911 $\pm$ 0.276 χ^2 /NDF: 779884.0/110

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 23.609 ± 0.433 χ^2/NDF : 4148.4/29

Left Out: 11.305 ± 0.454 χ^2/NDF : 1144.3/24

Right Out: -14.457 ± 0.424 χ^2/NDF : 11014.6/32

Left In: -8.815 ± 0.475 χ^2/NDF : 942.2/22

Left: 1.711 ± 0.328 χ^2/NDF : 3023.6/47

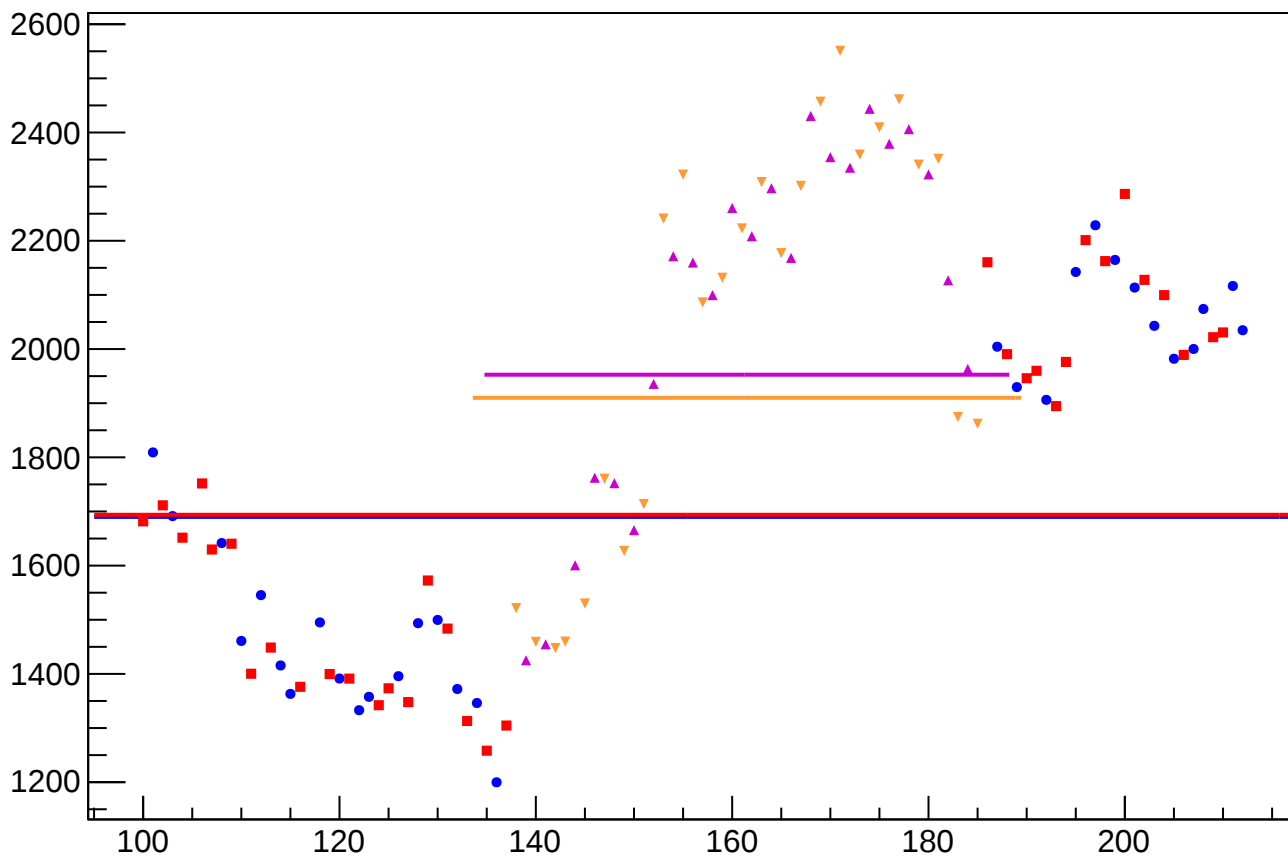
Right: 4.190 ± 0.303 χ^2/NDF : 19112.4/62

In: 8.920 ± 0.320 χ^2/NDF : 7635.2/52

Out: -2.453 ± 0.310 χ^2/NDF : 13879.6/57

All: 3.050 ± 0.223 χ^2/NDF : 22166.8/110

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1690.035 $\pm$ 0.306 χ^2 /NDF: 1193815.4/29

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1693.904 $\pm$ 0.300 χ^2 /NDF: 1158276.3/32

Left In: 1952.637 $\pm$ 0.336 χ^2 /NDF:1065333.8/22

Left: 1930.313 $\pm$ 0.232 χ^2 /NDF: 2473233.3/47

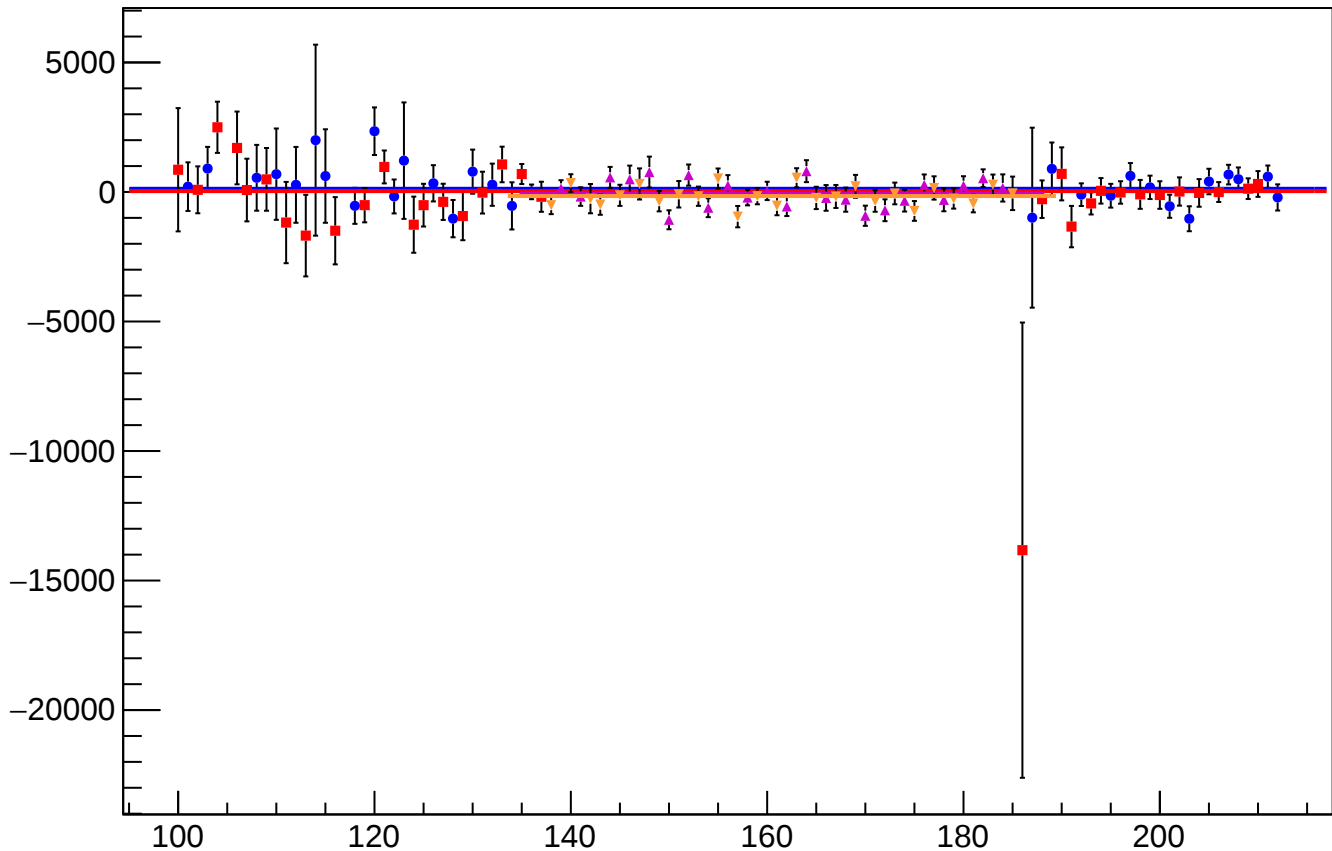
Right: 1692.009 $\pm$ 0.214 χ^2 /NDF: 2352173.4/62

In: 1809.005 $\pm$ 0.226 χ^2 /NDF:2592975.6/52

Out: 1794.579 $\pm$ 0.219 χ^2 /NDF:2799804.0/57

All: 1801.559 $\pm$ 0.157 χ^2 /NDF: 5394877.9/11

asym_sam1_mean vs Slug, Sign Corrected



Right In: 122.897 $\pm$ 108.286 χ^2/NDF : 27.7/29

Left Out: -157.242 $\pm$ 80.796 χ^2/NDF : 22.0/24

Right Out: 33.432 $\pm$ 112.259 χ^2/NDF : 30.3/32

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

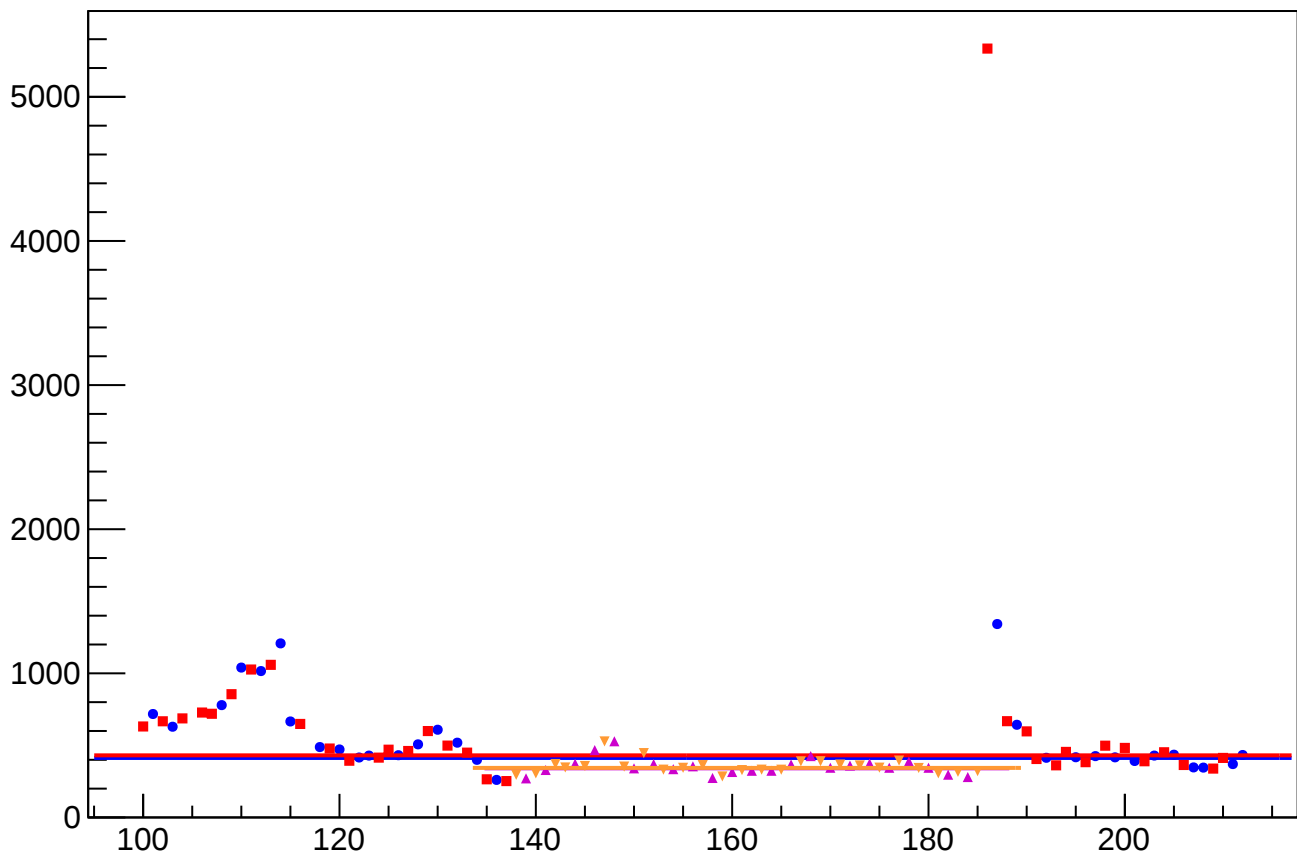
Right: 79.776 $\pm$ 77.937 χ^2/NDF : 58.3/62

In: 7.934 $\pm$ 65.667 χ^2/NDF : 68.0/52

Out: -92.176 $\pm$ 65.577 χ^2/NDF : 54.2/57

All: -42.190 $\pm$ 46.402 χ^2/NDF : 123.4/110

asym_sam1_rms vs Slug, Sign Corrected



Right In: 412.928+/-0.077 χ^2/NDF : 2406501.6/29

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 430.913+/-0.079 χ^2/NDF : 3266964.9/32

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

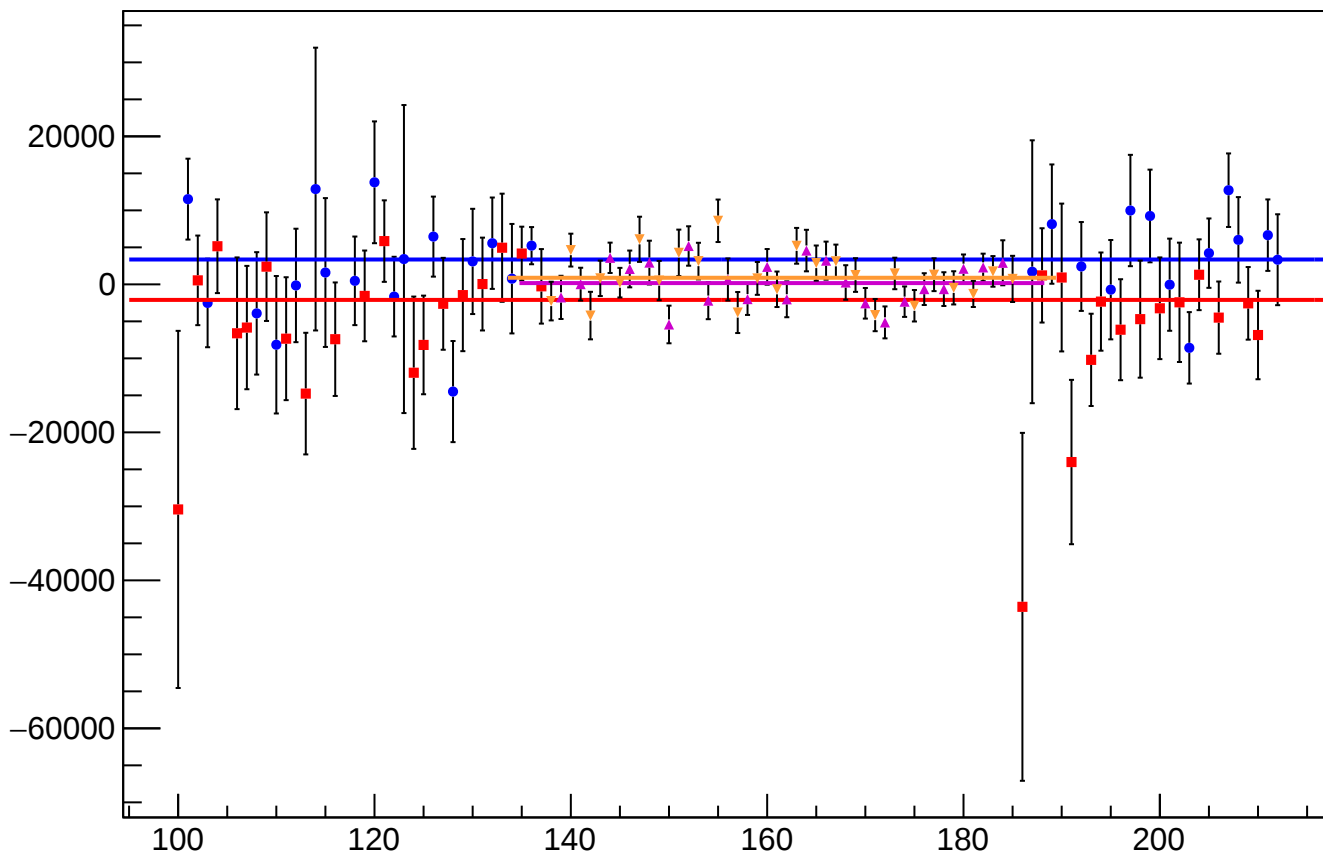
Right: 421.597+/-0.055 χ^2/NDF : 5700057.4/62

In: 367.373+/-0.046 χ^2/NDF : 3691024.6/52

Out: 373.531+/-0.046 χ^2/NDF : 4599649.9/57

All: 370.456+/-0.033 χ^2/NDF : 8299480.4/110

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3359.812 $\pm$ 1090.552 χ^2 /NDF: 29.7/29

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -2100.227 $\pm$ 1147.600 χ^2 /NDF: 25.8/32

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

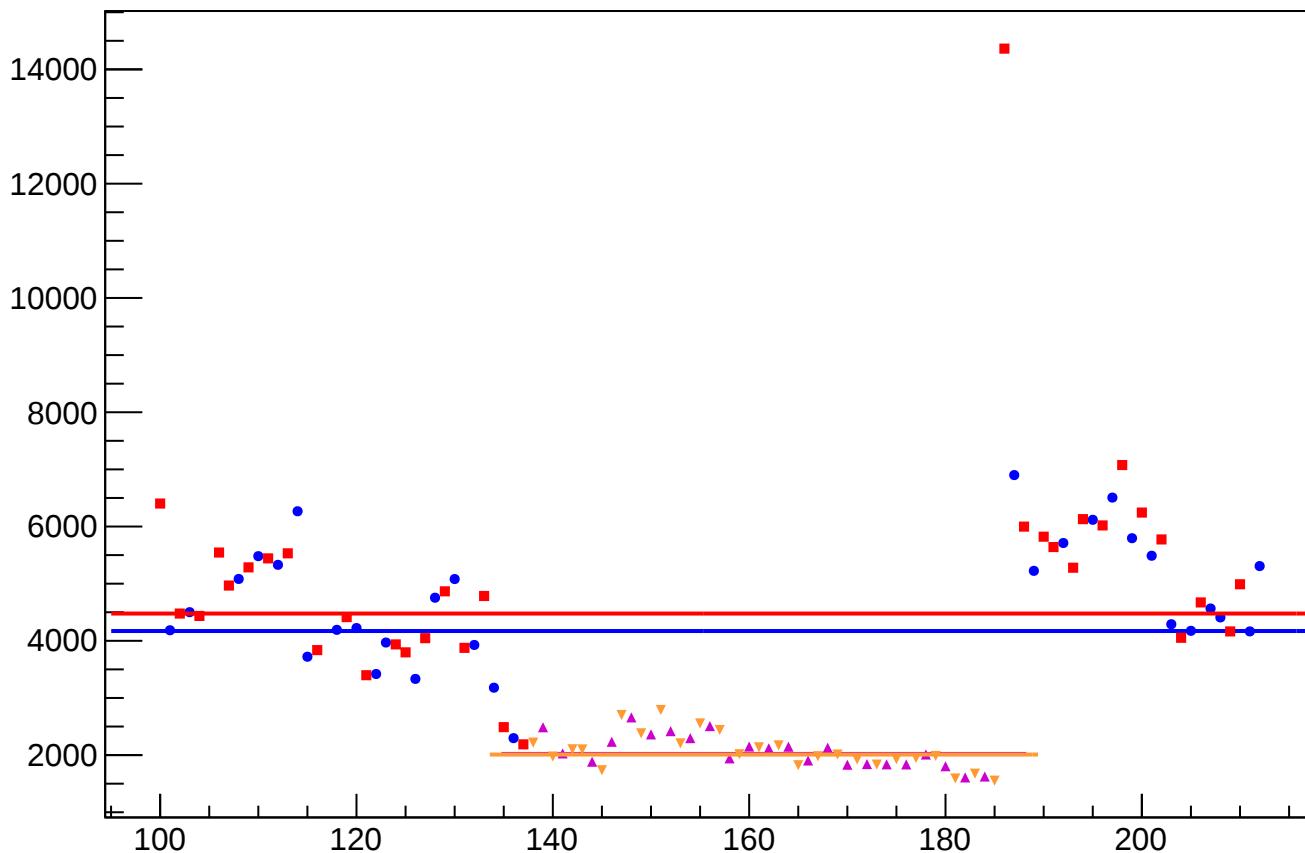
Right: 768.872 $\pm$ 790.535 χ^2 /NDF: 67.5/62

In: 704.277 $\pm$ 445.488 χ^2 /NDF:70.1/52

Out: 455.712 $\pm$ 437.518 χ^2 /NDF:69.6/57

All: 577.751 $\pm$ 312.152 χ^2 /NDF: 139.8/110

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4171.374+/-0.771 χ^2/NDF : 2314944.1/29

Left Out: 2009.631+/-0.335 χ^2/NDF : 709977.6/24

Right Out: 4477.283+/-0.811 χ^2/NDF : 2519173.0/32

Left In: 2020.365+/-0.345 χ^2/NDF : 573483.0/22

Left: 2014.833+/-0.240 χ^2/NDF : 1283959.2/47

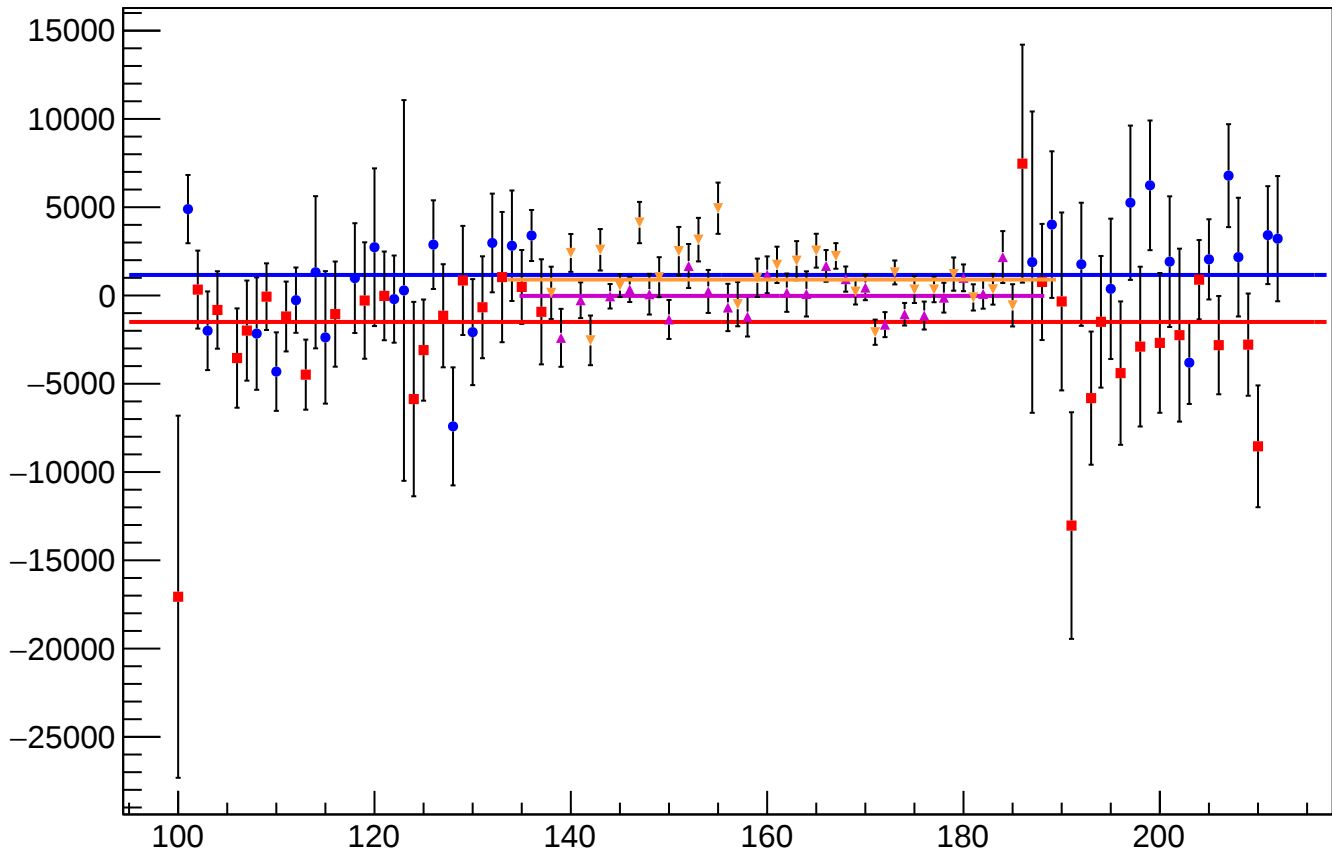
Right: 4316.537+/-0.559 χ^2/NDF : 4908793.5/62

In: 2379.305+/-0.315 χ^2/NDF : 9370804.8/52

Out: 2368.301+/-0.309 χ^2/NDF : 11132400.2/57

All: 2373.704+/-0.221 χ^2/NDF : 20503826.1/111

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1163.611 $\pm$ 513.680 χ^2 /NDF: 39.0/29

Left Out: 902.091 $\pm$ 185.850 χ^2 /NDF:63.5/24

Right Out: -1498.826 $\pm$ 512.716 χ^2 /NDF: 23.3/32

Left In: -23.529 $\pm$ 188.137 χ^2 /NDF:28.2/22

Left: 444.940 $\pm$ 132.217 χ^2 /NDF: 104.0/47

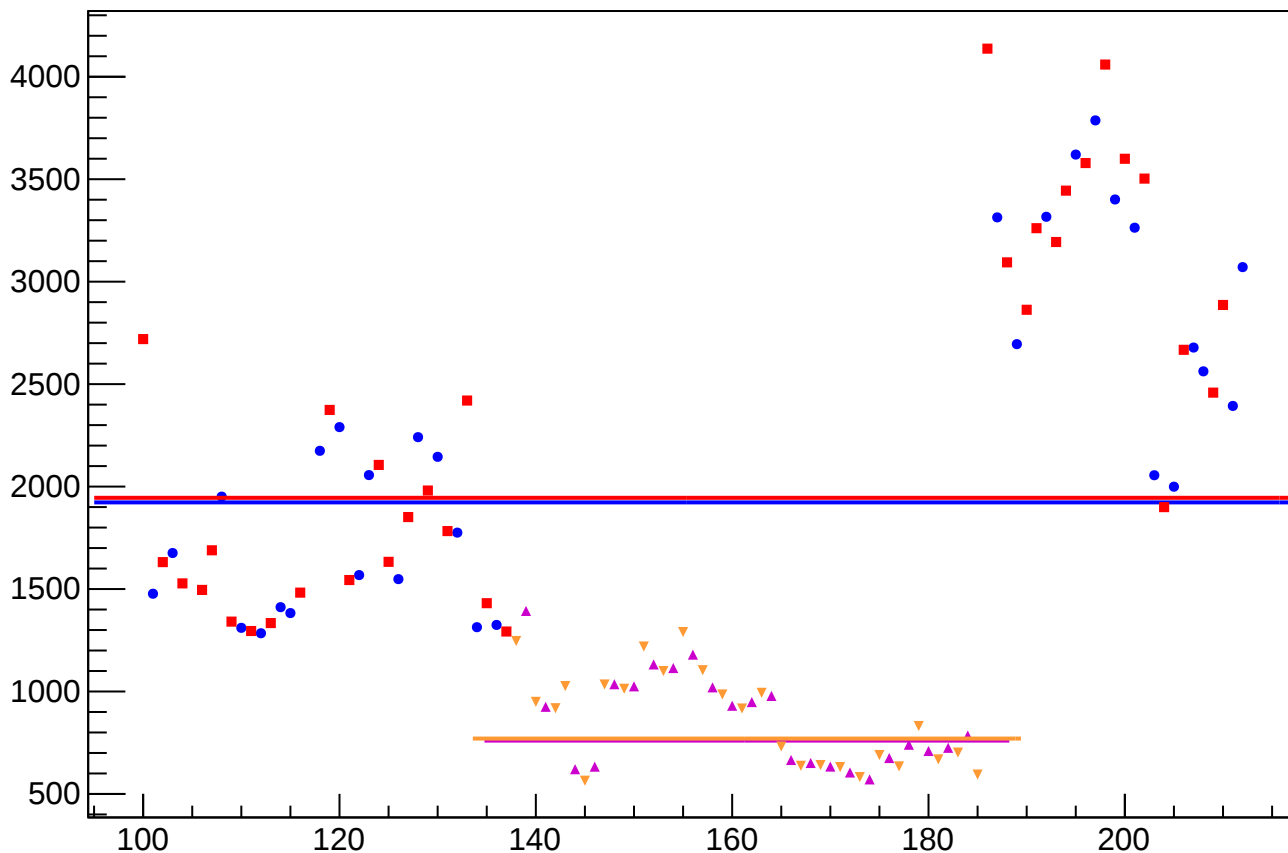
Right: -170.109 $\pm$ 362.885 χ^2 /NDF: 75.7/62

In: 116.880 $\pm$ 176.661 χ^2 /NDF:71.9/52

Out: 623.263 $\pm$ 174.725 χ^2 /NDF:106.2/57

All: 372.861 $\pm$ 124.228 χ^2 /NDF: 182.3/110

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1922.843 $\pm$ 0.363 χ^2 /NDF: 3395698.1/29

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF:2287655.1/24

Right Out: 1945.274 $\pm$ 0.363 χ^2 /NDF: 4027277.6/32

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

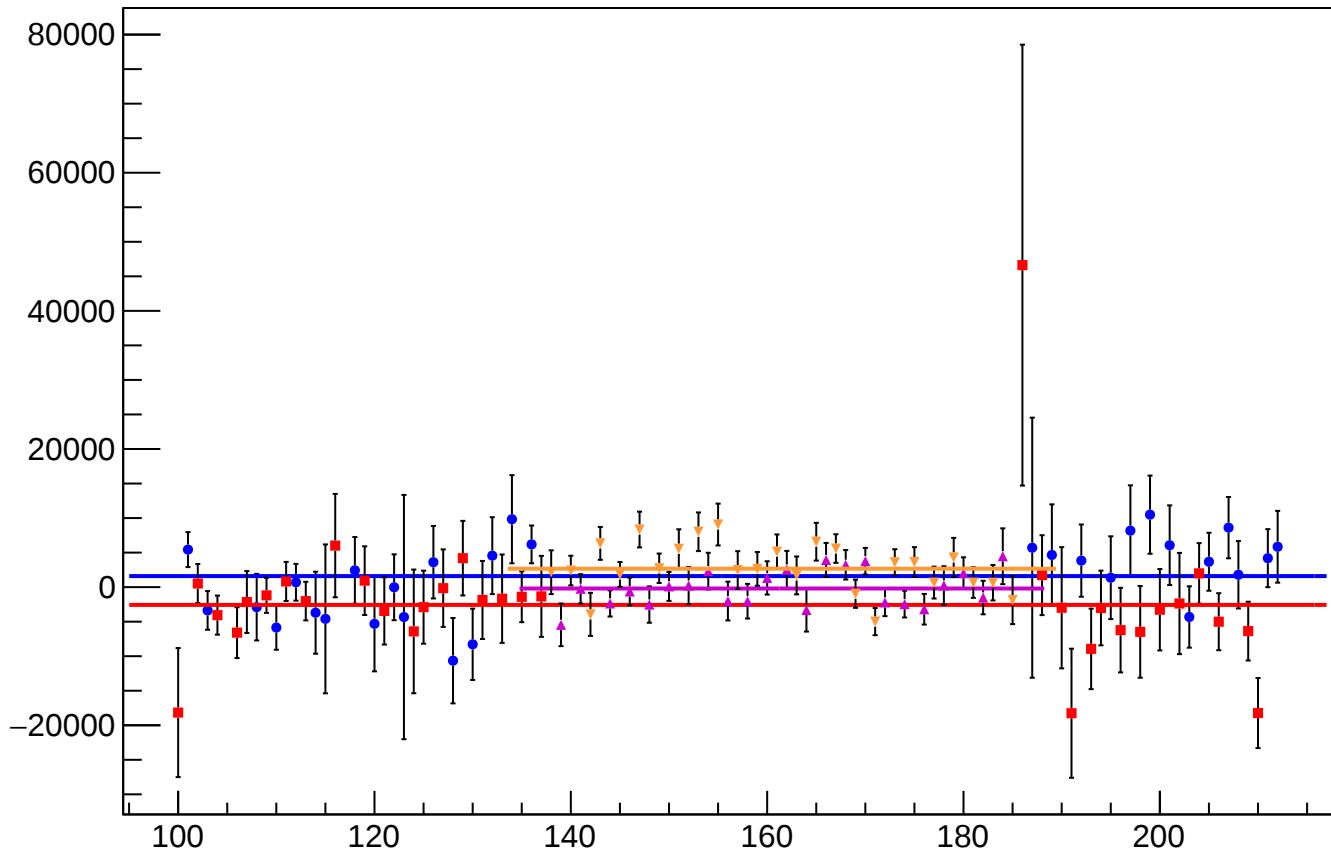
Right: 1934.080 $\pm$ 0.257 χ^2 /NDF: 7424886.2/62

In: 897.846 $\pm$ 0.125 χ^2 /NDF:14413880.3/52

Out: 906.772 $\pm$ 0.124 χ^2 /NDF:15598293.2/57

All: 902.358 $\pm$ 0.088 χ^2 /NDF: 30014754.5/11

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1600.316 $\pm$ 825.288 χ^2/NDF : 36.8/29

Left Out: 2665.587 $\pm$ 479.773 χ^2/NDF : 49.2/24

Right Out: -2574.530 $\pm$ 793.677 χ^2/NDF : 30.7/32

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

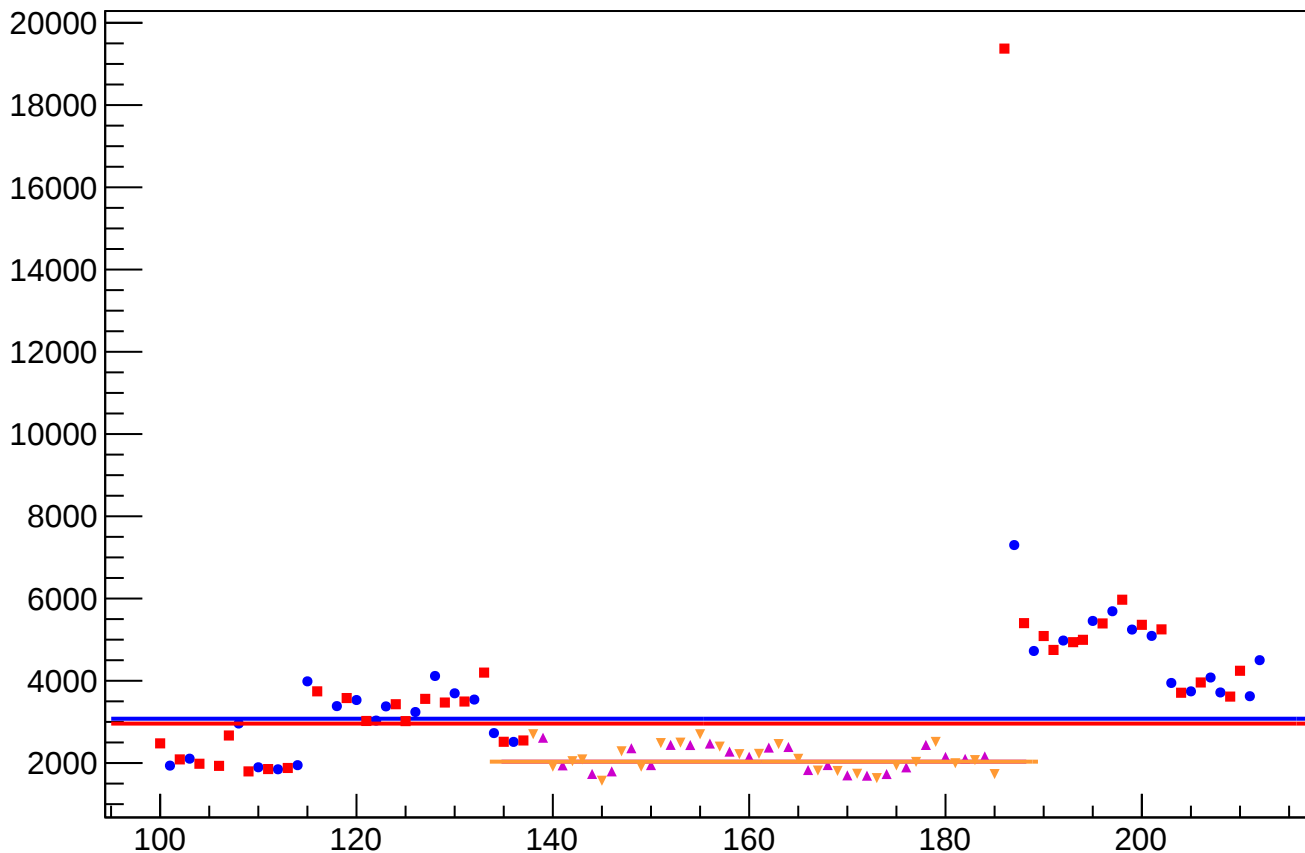
Right: -568.593 $\pm$ 572.063 χ^2/NDF : 80.7/62

In: 272.643 $\pm$ 422.654 χ^2/NDF : 66.1/52

Out: 1263.220 $\pm$ 410.586 χ^2/NDF : 111.8/57

All: 782.275 $\pm$ 294.502 χ^2/NDF : 180.7/110

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3077.370+/-0.584 χ^2/NDF : 3725298.2/29

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 2959.026+/-0.561 χ^2/NDF : 5052491.2/32

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

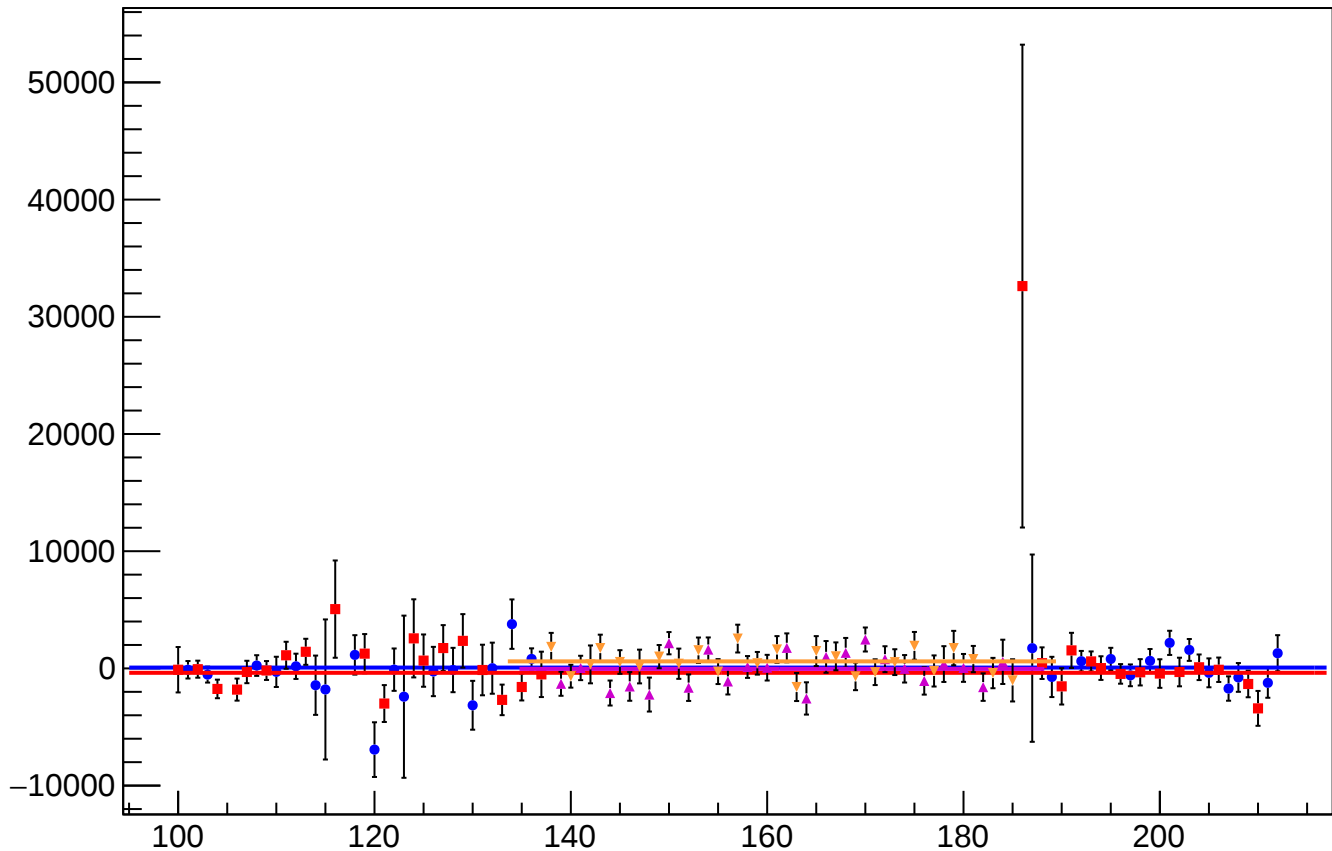
Right: 3015.888+/-0.405 χ^2/NDF : 8799154.9/62

In: 2306.658+/-0.299 χ^2/NDF : 6742396.2/52

Out: 2281.071+/-0.290 χ^2/NDF : 7869101.7/57

All: 2293.494+/-0.208 χ^2/NDF : 14615269.0/111

asym_sam5_mean vs Slug, Sign Corrected



Right In: 70.831 ± 221.241 χ^2/NDF : 31.2/29

Left Out: 600.005 ± 234.968 χ^2/NDF : 18.5/24

Right Out: -375.767 ± 209.371 χ^2/NDF : 34.9/32

Left In: -41.559 ± 240.807 χ^2/NDF : 36.4/22

Left: 287.096 ± 168.174 χ^2/NDF : 58.5/47

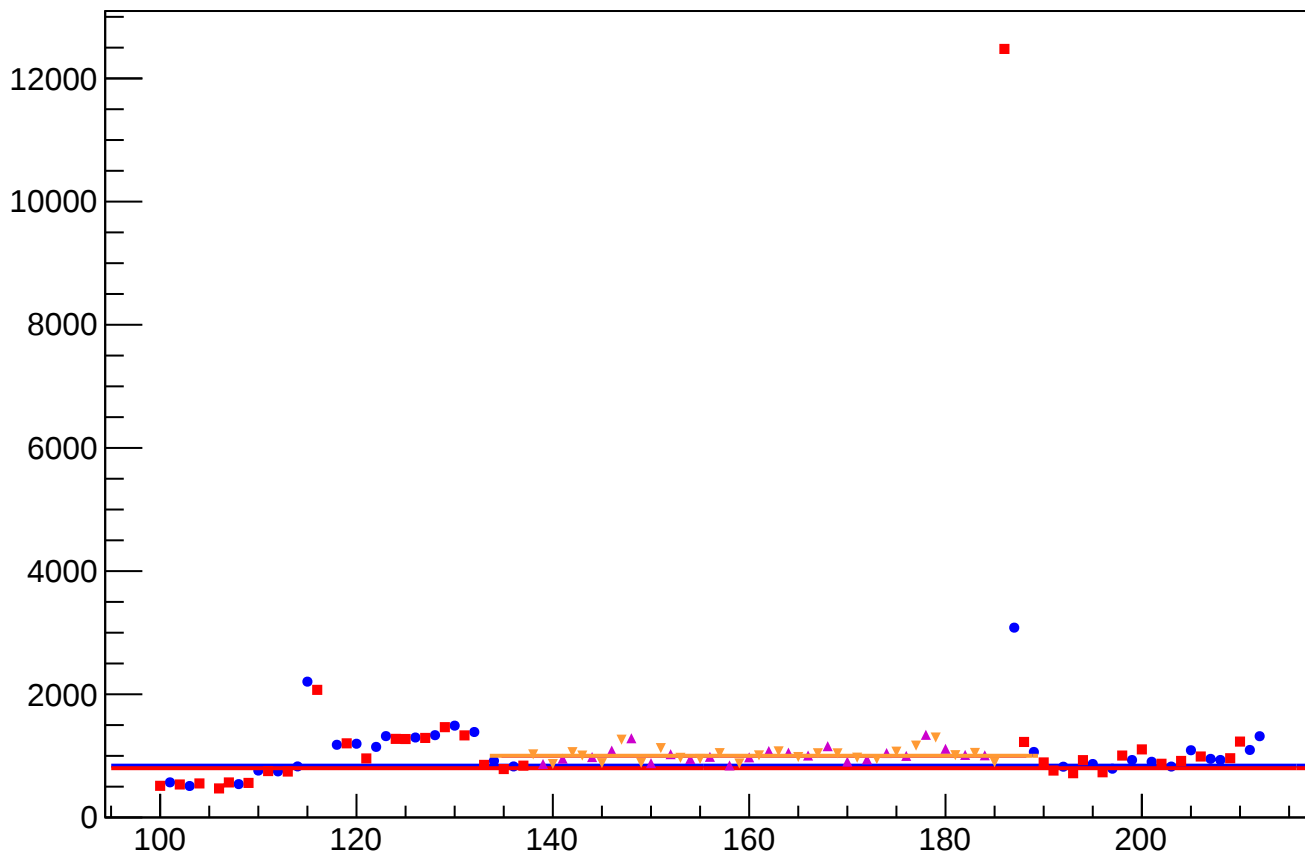
Right: -164.769 ± 152.071 χ^2/NDF : 68.3/62

In: 19.387 ± 162.920 χ^2/NDF : 67.7/52

Out: 56.095 ± 156.317 χ^2/NDF : 63.0/57

All: 38.500 ± 112.795 χ^2/NDF : 130.8/110

asym_sam5_rms vs Slug, Sign Corrected



Right In: 840.949+/-0.156 χ^2/NDF : 2454996.7/29

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 799.719+/-0.148 χ^2/NDF : 3341989.7/32

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

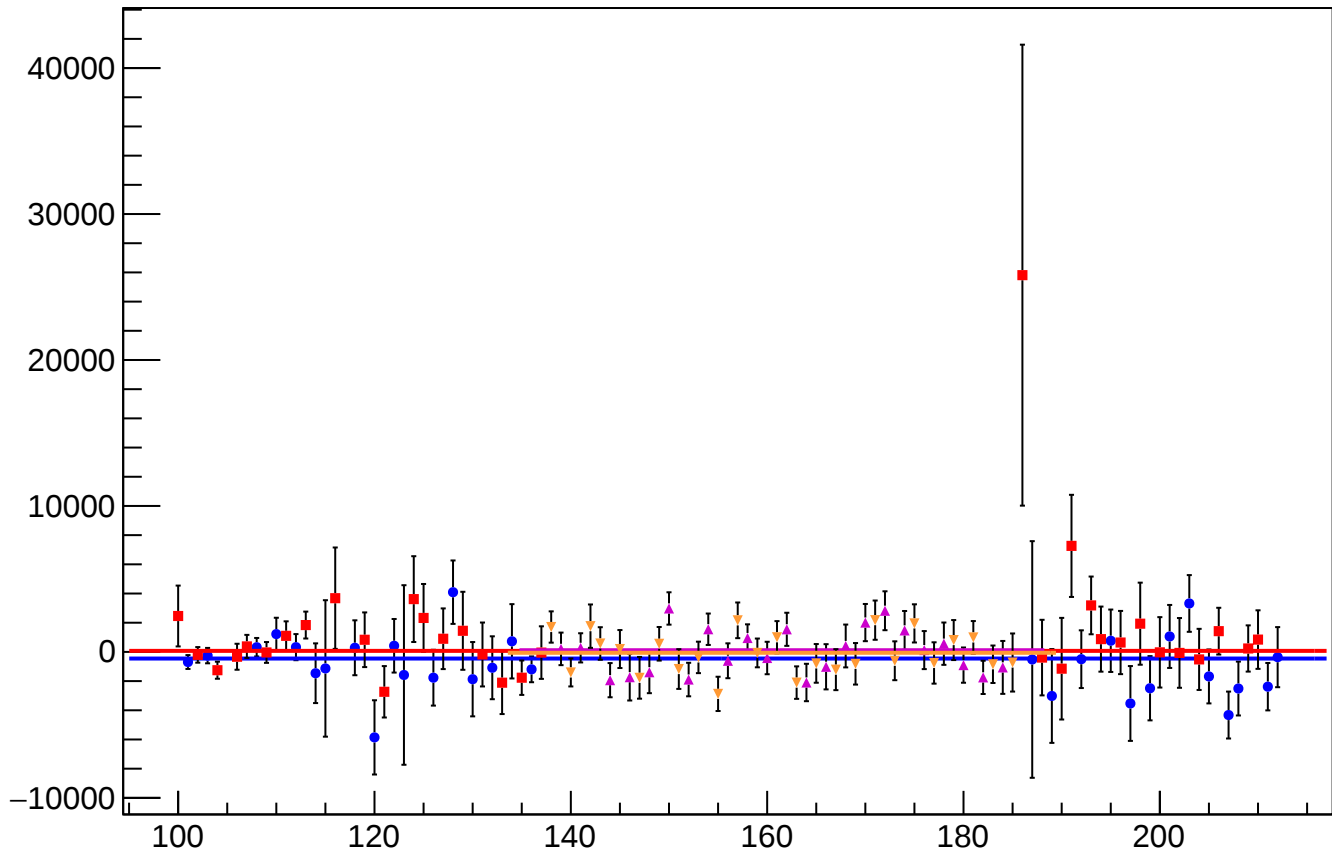
Right: 819.198+/-0.108 χ^2/NDF : 5833629.4/62

In: 912.859+/-0.115 χ^2/NDF : 3321251.9/52

Out: 889.012+/-0.111 χ^2/NDF : 4534210.6/57

All: 900.442+/-0.080 χ^2/NDF : 7877773.4/110

asym_sam6_mean vs Slug, Sign Corrected



Right In: -454.476 ± 229.865 χ^2/NDF : 32.7/29

Left Out: -59.827 ± 246.503 χ^2/NDF : 31.0/24

Right Out: 70.746 ± 228.083 χ^2/NDF : 33.0/32

Left In: 112.398 ± 255.409 χ^2/NDF : 34.9/22

Left: 23.230 ± 177.369 χ^2/NDF : 66.1/47

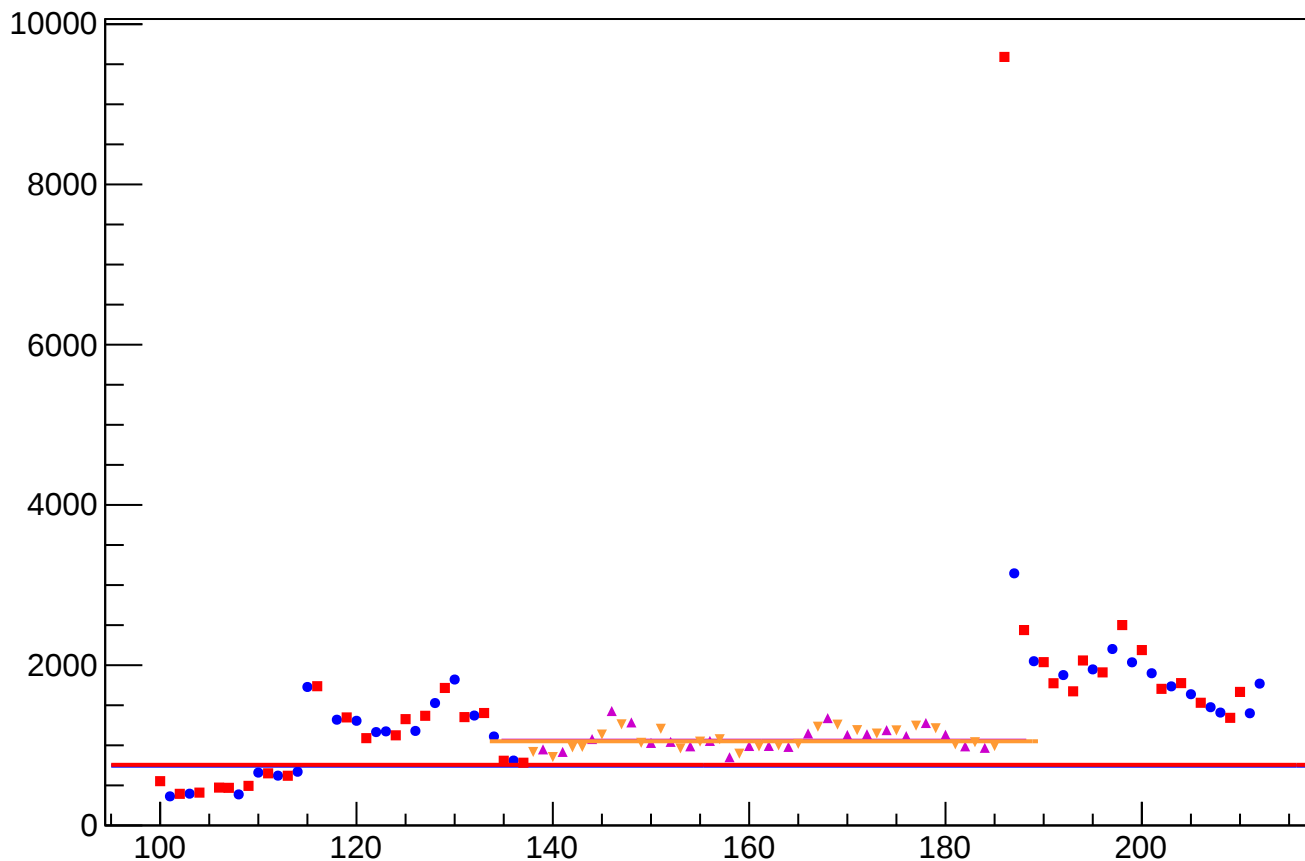
Right: -189.821 ± 161.905 χ^2/NDF : 68.3/62

In: -200.797 ± 170.858 χ^2/NDF : 70.2/52

Out: 10.520 ± 167.413 χ^2/NDF : 64.2/57

All: -92.986 ± 119.578 χ^2/NDF : 135.2/110

asym_sam6_rms vs Slug, Sign Corrected



Right In: 746.063+/-0.163 χ^2/NDF : 10464534.1/29

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 756.808+/-0.161 χ^2/NDF : 10802054.4/32

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

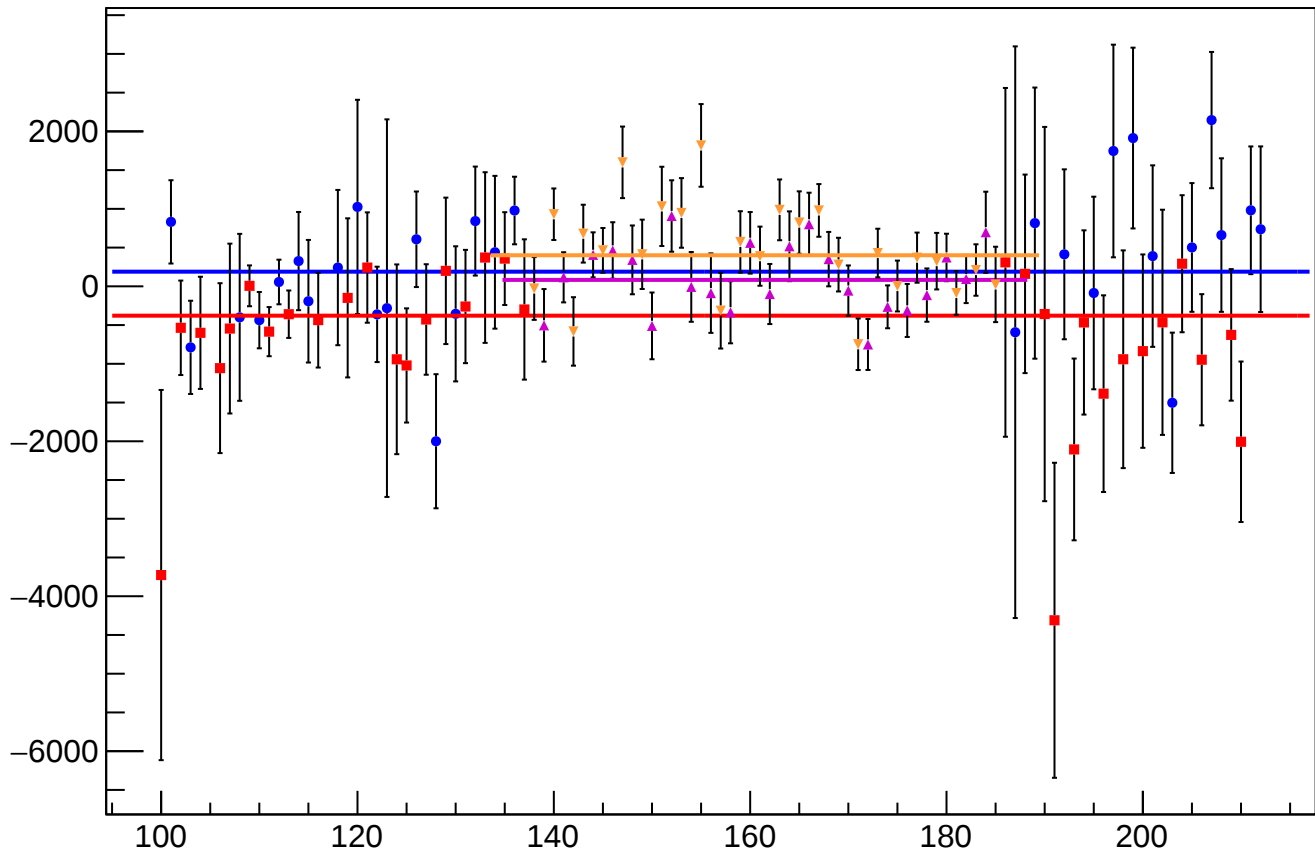
Right: 751.477+/-0.114 χ^2/NDF : 21268790.6/62

In: 885.700+/-0.121 χ^2/NDF : 12642365.2/52

Out: 892.341+/-0.118 χ^2/NDF : 12816294.4/57

All: 889.088+/-0.085 χ^2/NDF : 25460200.9/111

asym_sam7_mean vs Slug, Sign Corrected



Right In: 189.123+/-129.187 χ^2/NDF : 34.2/29

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -378.799+/-120.184 χ^2/NDF : 20.0/32

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

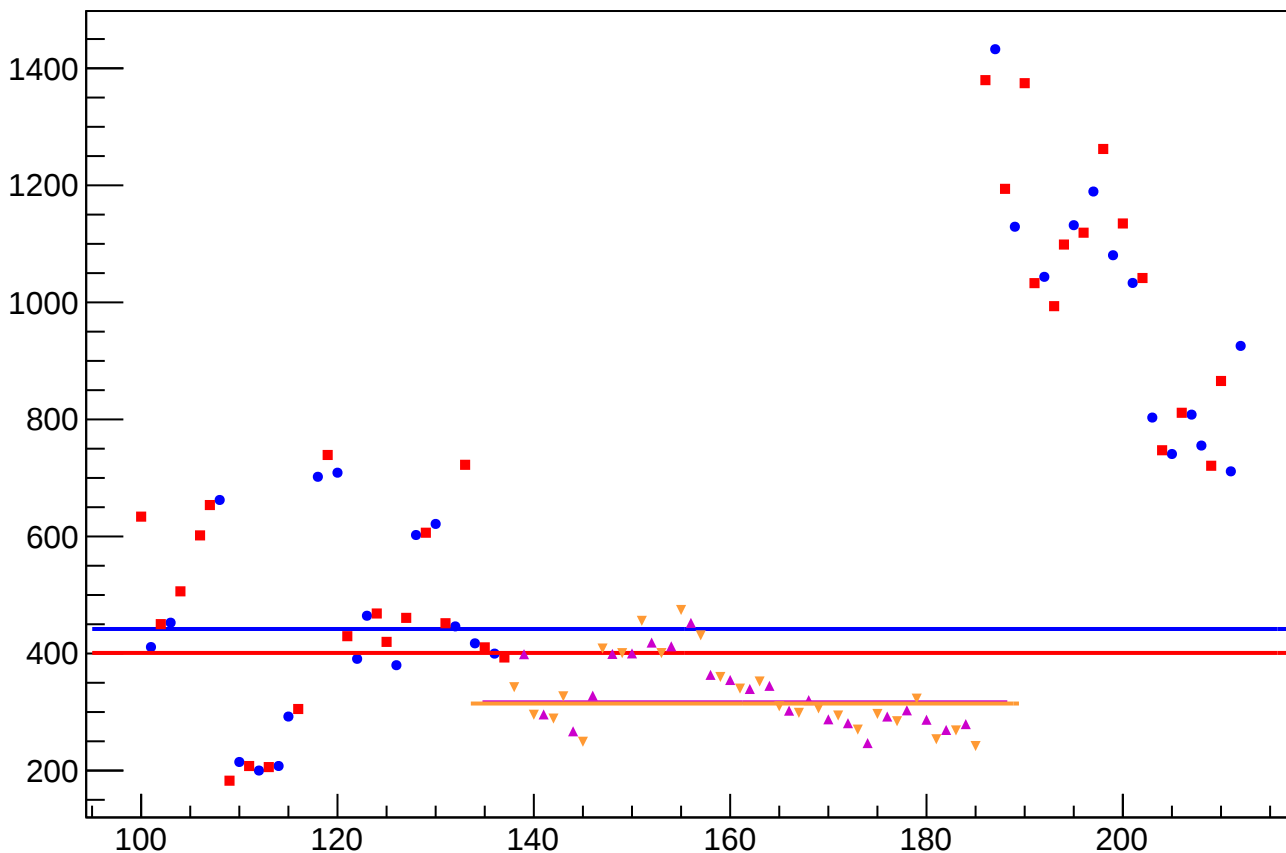
Right: -115.314+/-87.994 χ^2/NDF : 64.6/62

In: 110.686+/-66.081 χ^2/NDF : 63.7/52

Out: 184.333+/-63.350 χ^2/NDF : 102.4/57

All: 149.063+/-45.730 χ^2/NDF : 166.8/110

asym_sam7_rms vs Slug, Sign Corrected



Right In: 441.908 $\pm$ 0.091 χ^2/NDF : 8166618.4/29

Left Out: 314.538 $\pm$ 0.053 χ^2/NDF : 1112445.6/24

Right Out: 400.994 $\pm$ 0.085 χ^2/NDF : 10537027.8/32

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

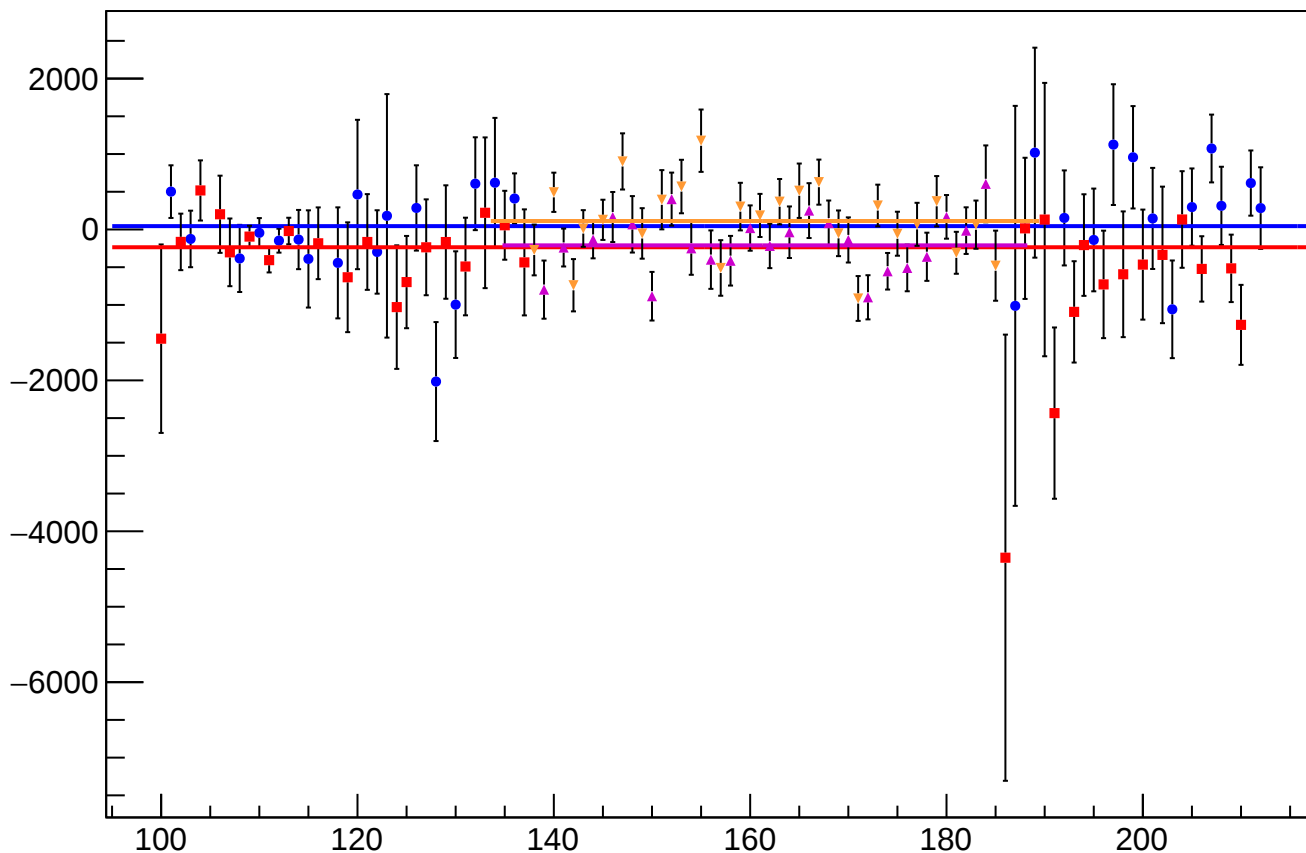
Right: 419.976 $\pm$ 0.062 χ^2/NDF : 18811175.3/62

In: 349.421 $\pm$ 0.047 χ^2/NDF : 10475798.2/52

Out: 338.559 $\pm$ 0.045 χ^2/NDF : 12396889.3/57

All: 343.761 $\pm$ 0.032 χ^2/NDF : 22900847.3/11

asym_sam8_mean vs Slug, Sign Corrected



Right In: 44.427 ± 79.927 χ^2/NDF : 32.9/29

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -235.572 ± 70.992 χ^2/NDF : 24.7/32

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

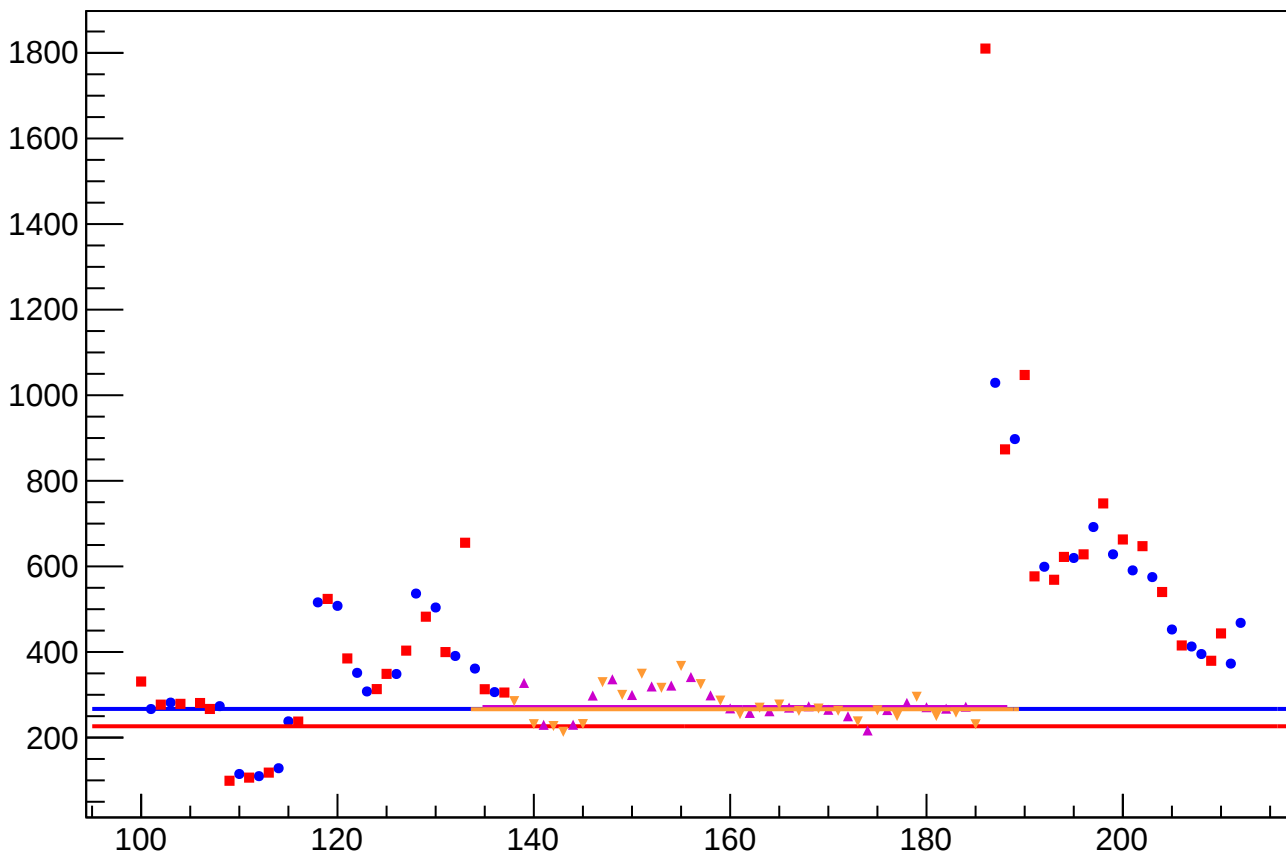
Right: -112.091 ± 53.078 χ^2/NDF : 64.4/62

In: -108.033 ± 50.666 χ^2/NDF : 68.1/52

Out: -40.019 ± 46.971 χ^2/NDF : 87.3/57

All: -71.456 ± 34.446 χ^2/NDF : 156.4/110

asym_sam8_rms vs Slug, Sign Corrected



Right In: 266.937 $\pm$ 0.057 χ^2 /NDF: 9177269.5/29

Left Out: 266.207 $\pm$ 0.044 χ^2 /NDF: 649629.9/24

Right Out: 226.420 $\pm$ 0.050 χ^2 /NDF: 12440010.7/32

Left In: 271.415 $\pm$ 0.046 χ^2 /NDF: 521877.7/22

Left: 268.695 $\pm$ 0.032 χ^2 /NDF: 1178109.8/47

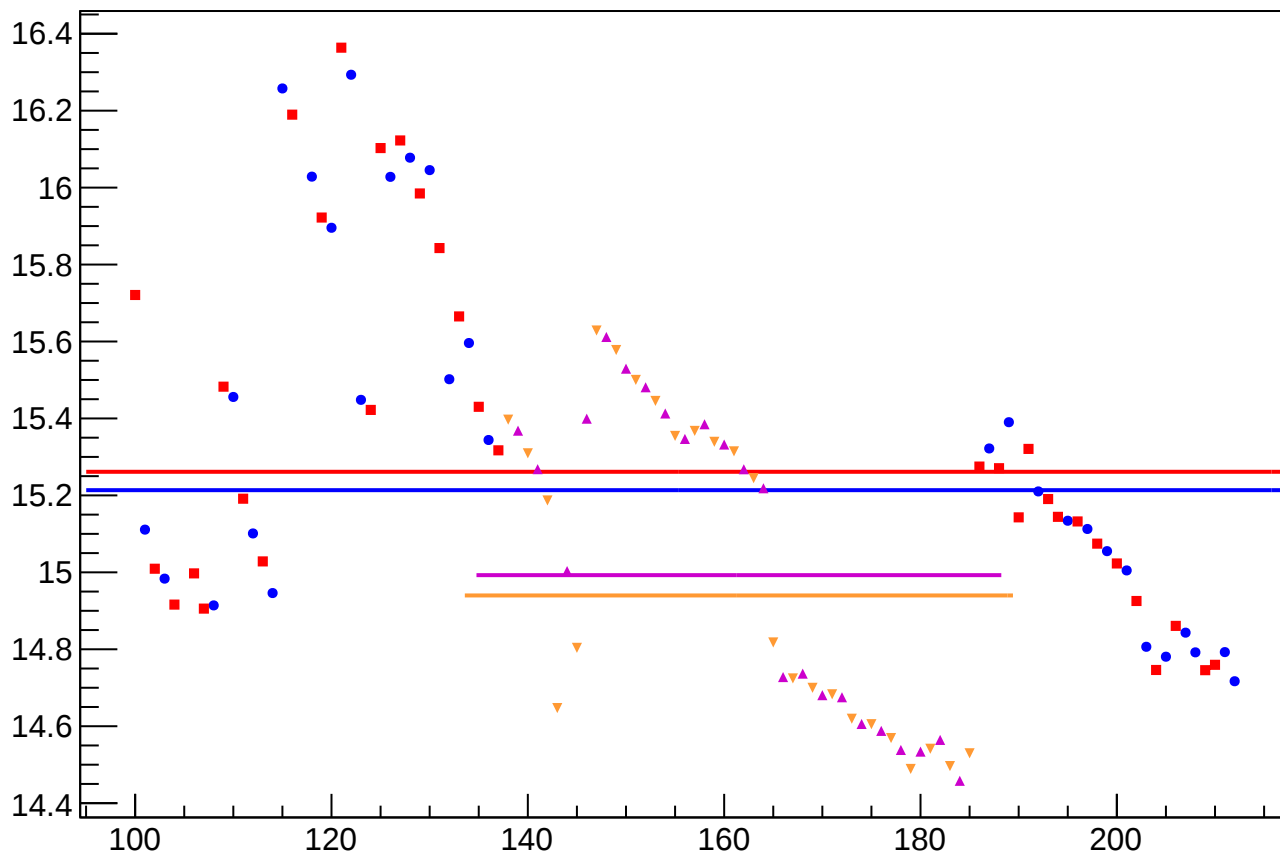
Right: 244.289 $\pm$ 0.038 χ^2 /NDF: 21904570.9/62

In: 269.616 $\pm$ 0.036 χ^2 /NDF: 9702901.8/52

Out: 248.790 $\pm$ 0.033 χ^2 /NDF: 13442823.9/57

All: 258.416 $\pm$ 0.024 χ^2 /NDF: 23327447.3/11

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.214+/-0.000

χ²/NDF: 17162611556.6/29

Left Out: 14.940+/-0.000

χ²/NDF: 24199653913.9/24

Right Out: 15.261+/-0.000

χ²/NDF: 15710953514.7/32

Left In: 14.993+/-0.000

χ²/NDF: 22023159634.7/22

Left: 14.965+/-0.000

χ²/NDF: 46444749587.5/47

Right: 15.236+/-0.000

χ²/NDF: 32965900781.3/62

In: 15.073+/-0.000

χ²/NDF: 41884193963.4/52

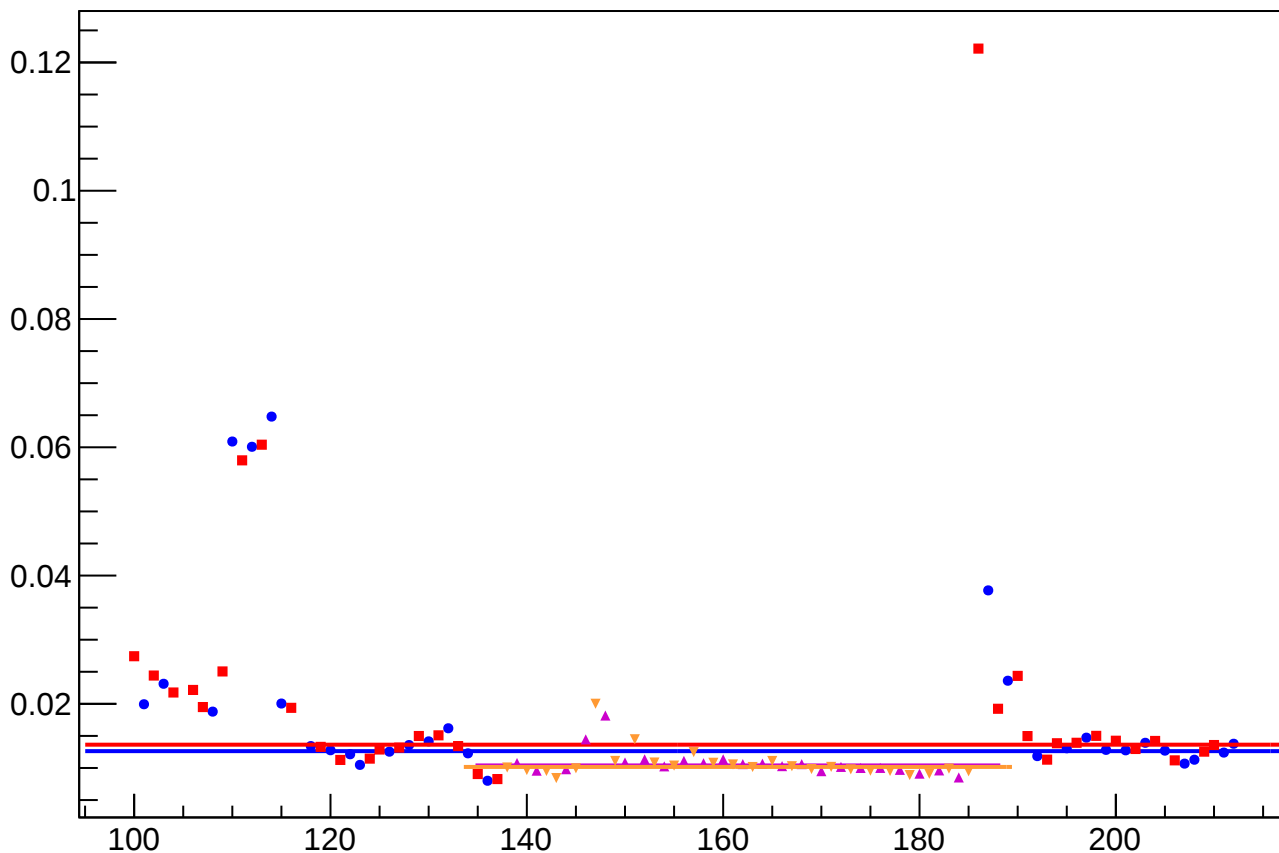
Out: 15.040+/-0.000

χ²/NDF: 45295682451.5/57

All: 15.056+/-0.000

χ²/NDF: 87310397723.3

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2582082.8/29

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 3098415.3/32

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

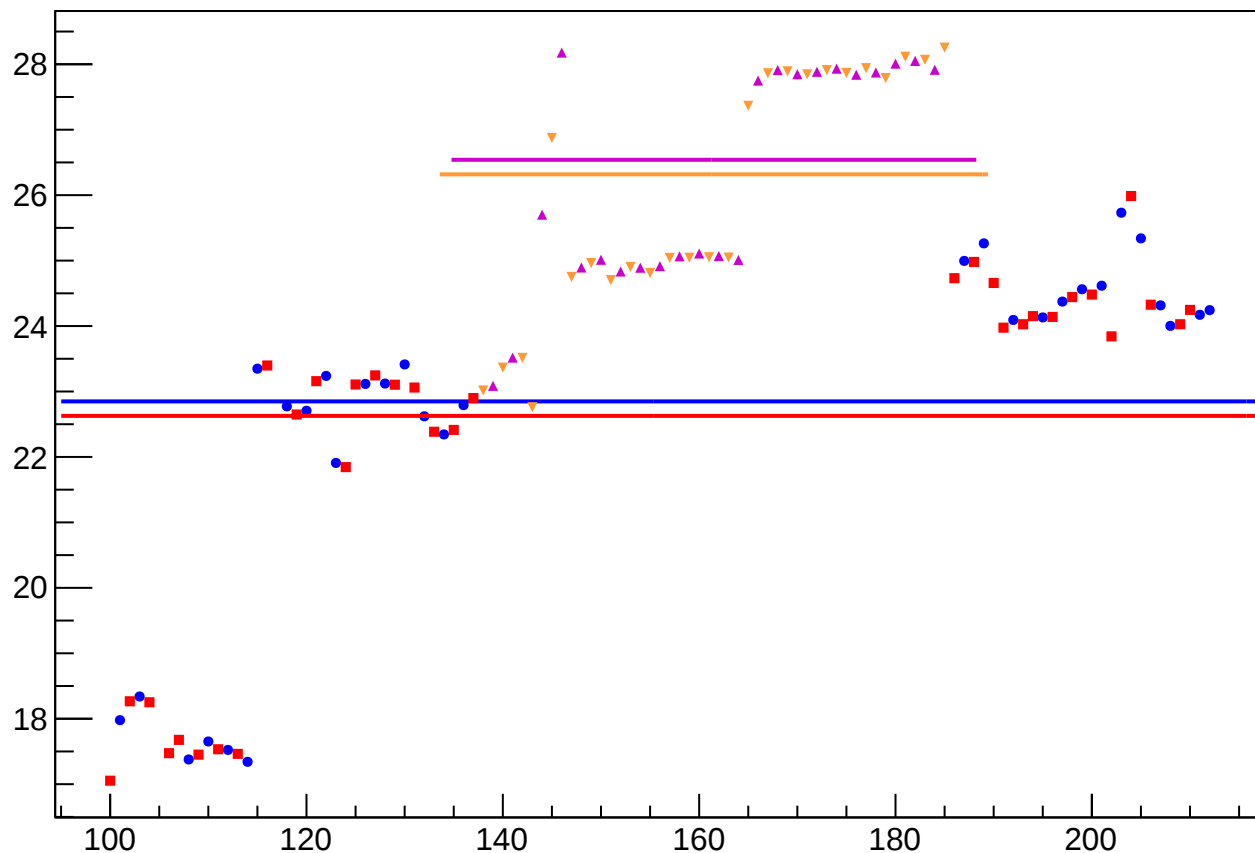
Right: 0.013+/-0.000 χ^2/NDF : 5762552.5/62

In: 0.011+/-0.000 χ^2/NDF : 3675603.3/52

Out: 0.011+/-0.000 χ^2/NDF : 5070475.3/57

All: 0.011+/-0.000 χ^2/NDF : 8746409.3/110

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.849+/-0.000

χ^2/NDF : 1364464586.4/29

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right: 22.744+/-0.000

χ^2/NDF : 2918162092.5/62

Right Out: 22.627+/-0.000

χ^2/NDF : 1544173074.8/32

In: 25.650+/-0.000

χ^2/NDF : 8930821767.9/52

Out: 25.553+/-0.000

χ^2/NDF : 10241275612.5/57

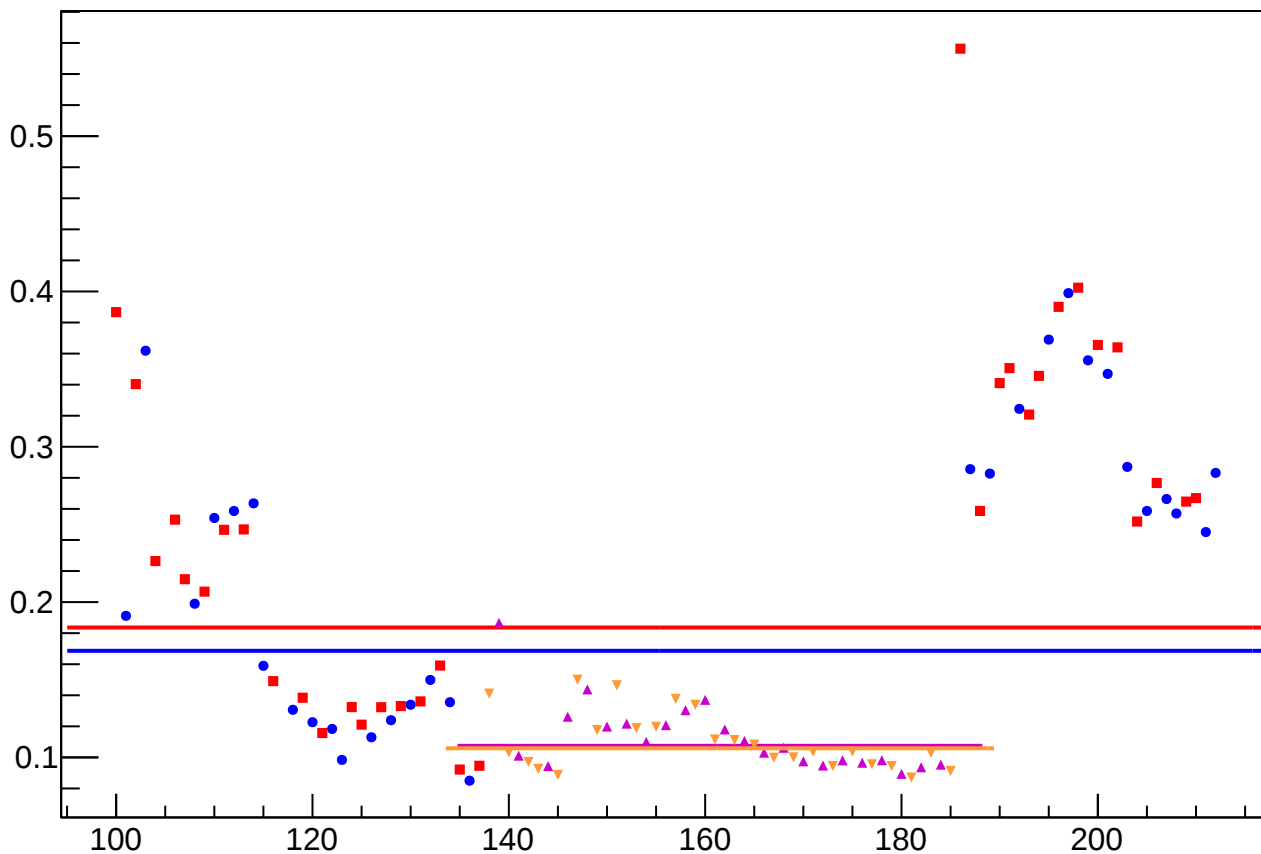
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.600+/-0.000

χ^2/NDF : 19180391367.1

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.169+/-0.000 χ^2/NDF : 6158030.8/29

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.184+/-0.000 χ^2/NDF : 5902307.9/32

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

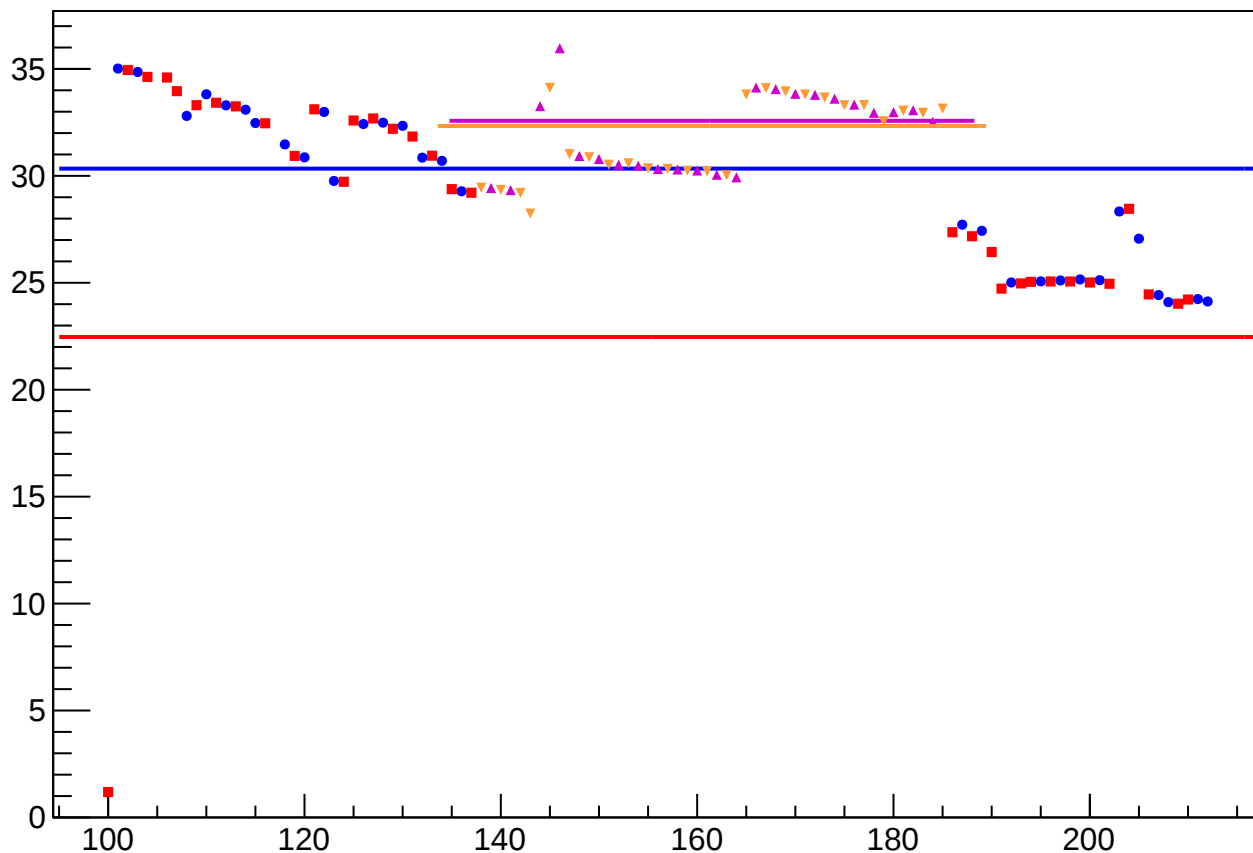
Right: 0.176+/-0.000 χ^2/NDF : 12147984.4/62

In: 0.122+/-0.000 χ^2/NDF : 9265741.3/52

Out: 0.122+/-0.000 χ^2/NDF : 10170381.9/57

All: 0.122+/-0.000 χ^2/NDF : 19436202.6/110

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.339+/-0.000

χ^2/NDF : 9345344575.8/29

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

Right Out: 22.466+/-0.000

χ^2/NDF : 232226840423.5/32

Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

Left: 32.450+/-0.000

χ^2/NDF : 24766521375.8/47

Right: 25.810+/-0.000

χ^2/NDF : 275238801580.3/62

In: 32.140+/-0.000

χ^2/NDF : 24944284320.1/52

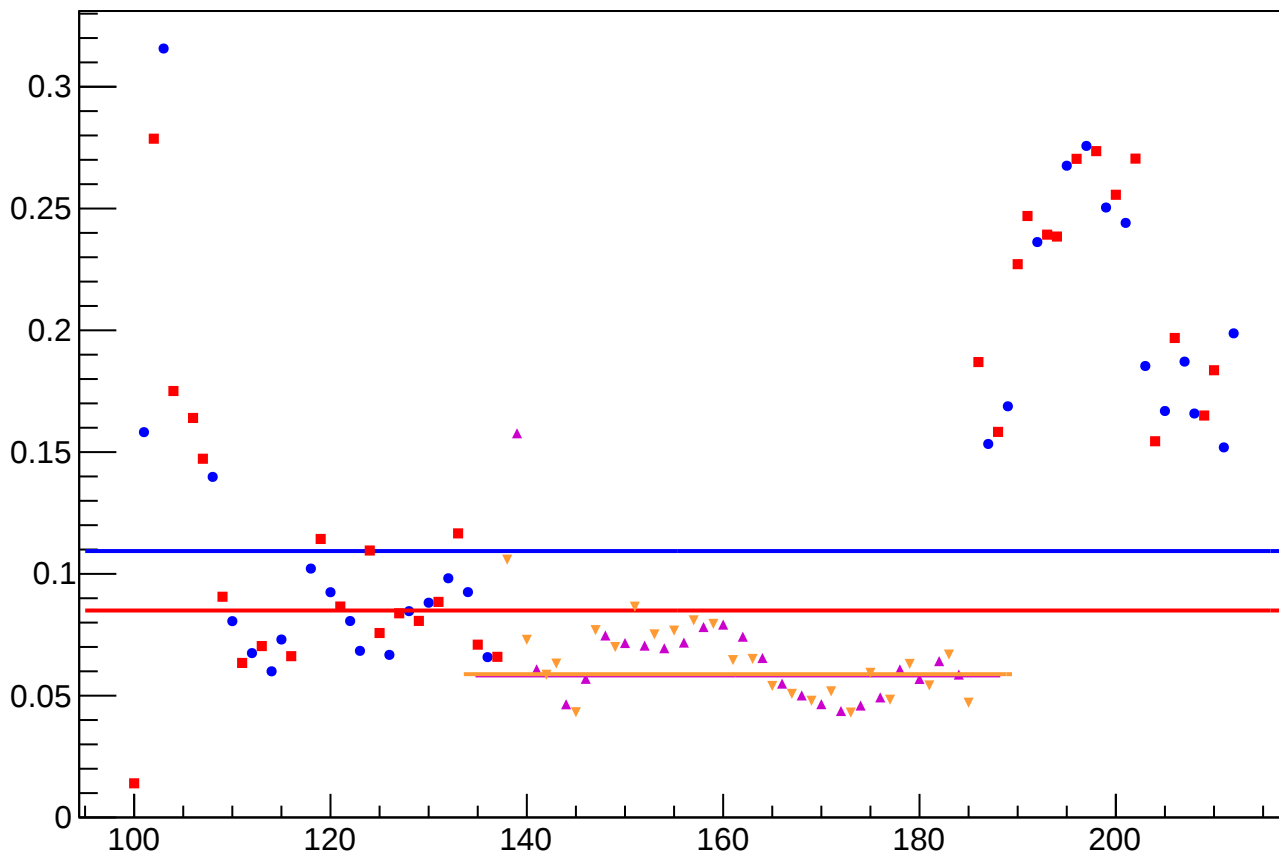
Out: 29.984+/-0.000

χ^2/NDF : 339925110505.2/57

All: 31.008+/-0.000

χ^2/NDF : 376740714312.0/100

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.109+/-0.000 χ^2/NDF : 6208533.9/29

Left Out: 0.059+/-0.000 χ^2/NDF :1402605.2/24

Right Out: 0.085+/-0.000 χ^2/NDF : 11356553.0/32

Left In: 0.058+/-0.000 χ^2/NDF :1525476.4/22

Left: 0.059+/-0.000 χ^2/NDF : 2929140.7/47

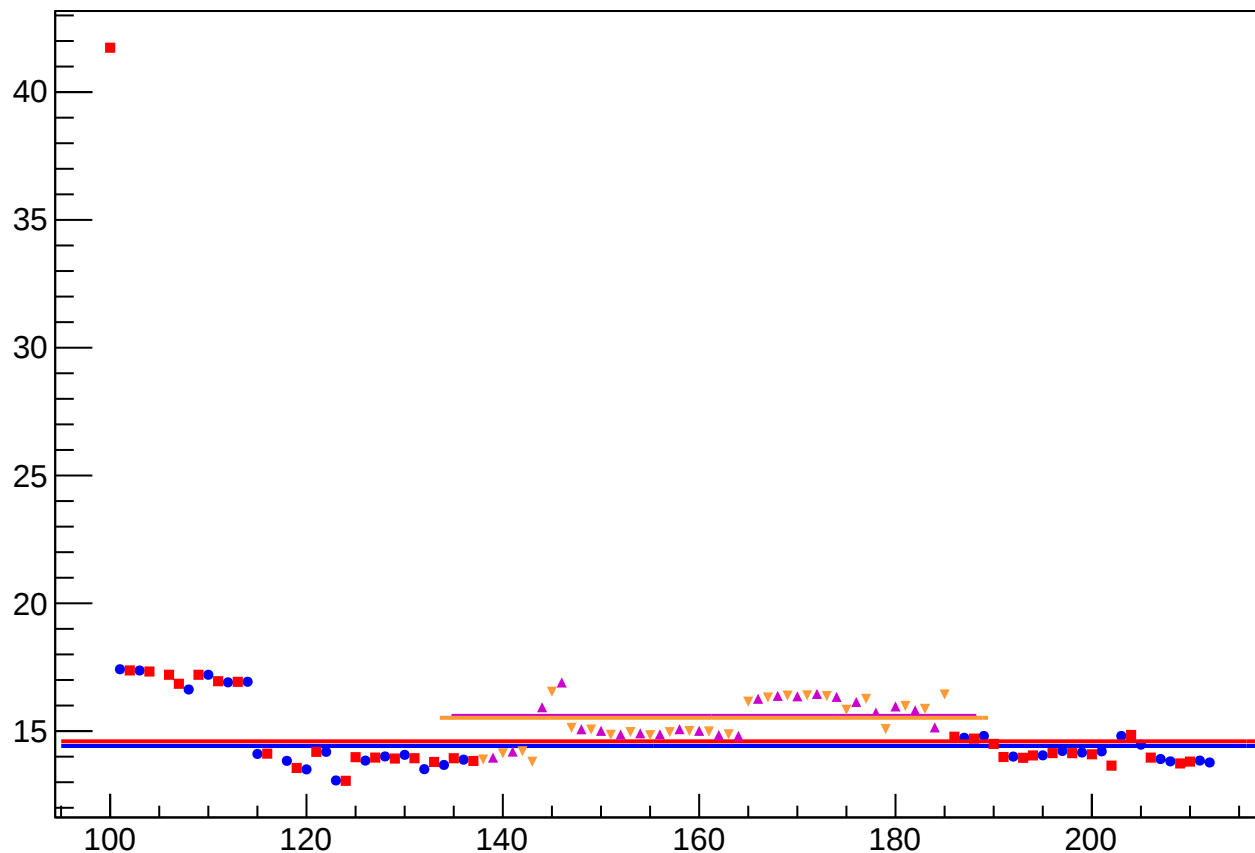
Right: 0.095+/-0.000 χ^2/NDF : 18212300.7/62

In: 0.068+/-0.000 χ^2/NDF :11701270.3/52

Out: 0.065+/-0.000 χ^2/NDF :14090637.9/57

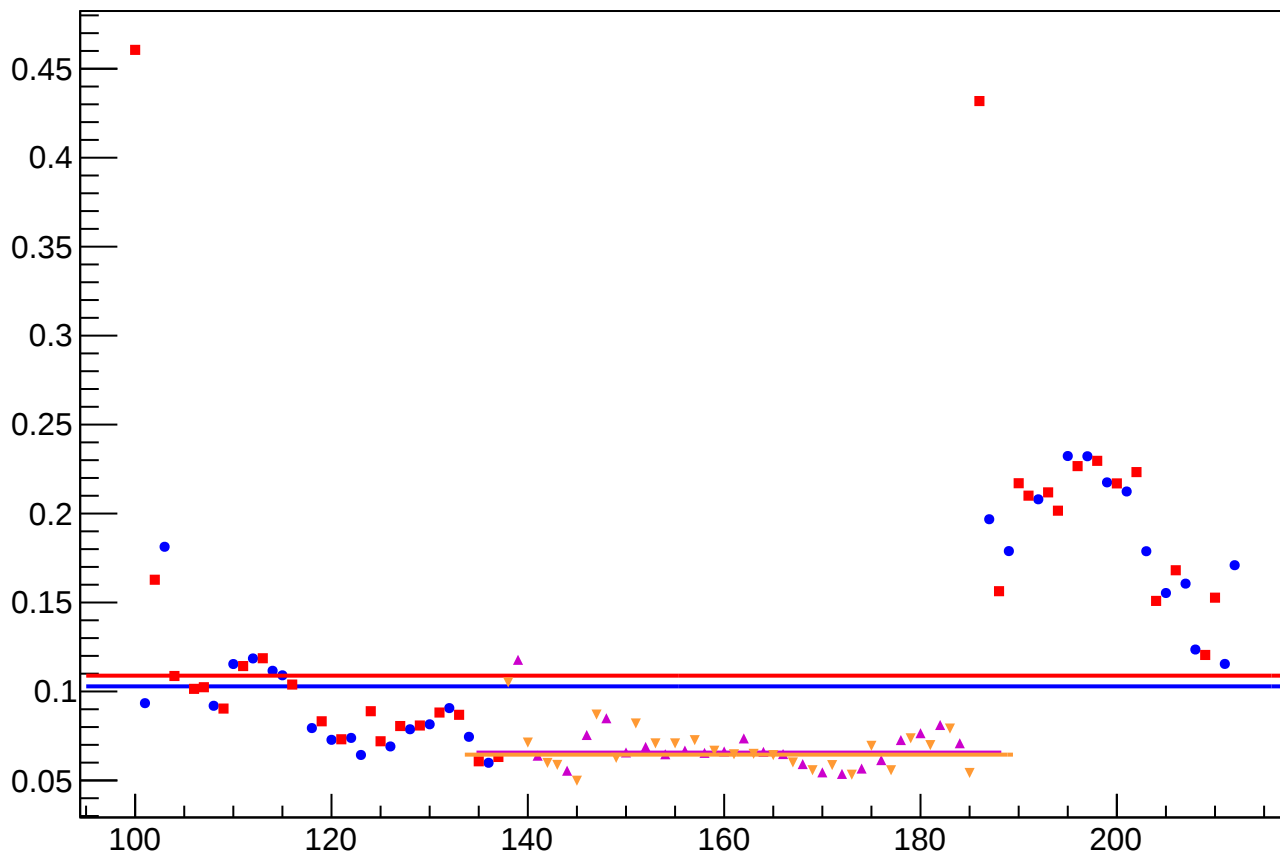
All: 0.067+/-0.000 χ^2/NDF : 25843513.8/110

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.417+/-0.000	χ^2/NDF : 1558918185.6/29	Left: 15.557+/-0.000	χ^2/NDF : 4510008259.4/47
Left Out: 15.521+/-0.000	χ^2/NDF : 2591377740.5/24	Right: 14.505+/-0.000	χ^2/NDF : 3604904161.4/62
Right Out: 14.600+/-0.000	χ^2/NDF : 2027155101.6/32	In: 15.298+/-0.000	χ^2/NDF : 4674501926.8/52
Left In: 15.595+/-0.000	χ^2/NDF : 1908733580.5/22	Out: 15.315+/-0.000	χ^2/NDF : 5330386556.7/57
		All: 15.306+/-0.000	χ^2/NDF : 10005604135.6

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.103 $\pm$ 0.000 χ^2 /NDF: 5102459.8/29

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF: 761552.3/24

Right Out: 0.109 $\pm$ 0.000 χ^2 /NDF: 5109315.5/32

Left In: 0.066 $\pm$ 0.000 χ^2 /NDF: 714703.1/22

Left: 0.065 $\pm$ 0.000 χ^2 /NDF: 1481007.6/47

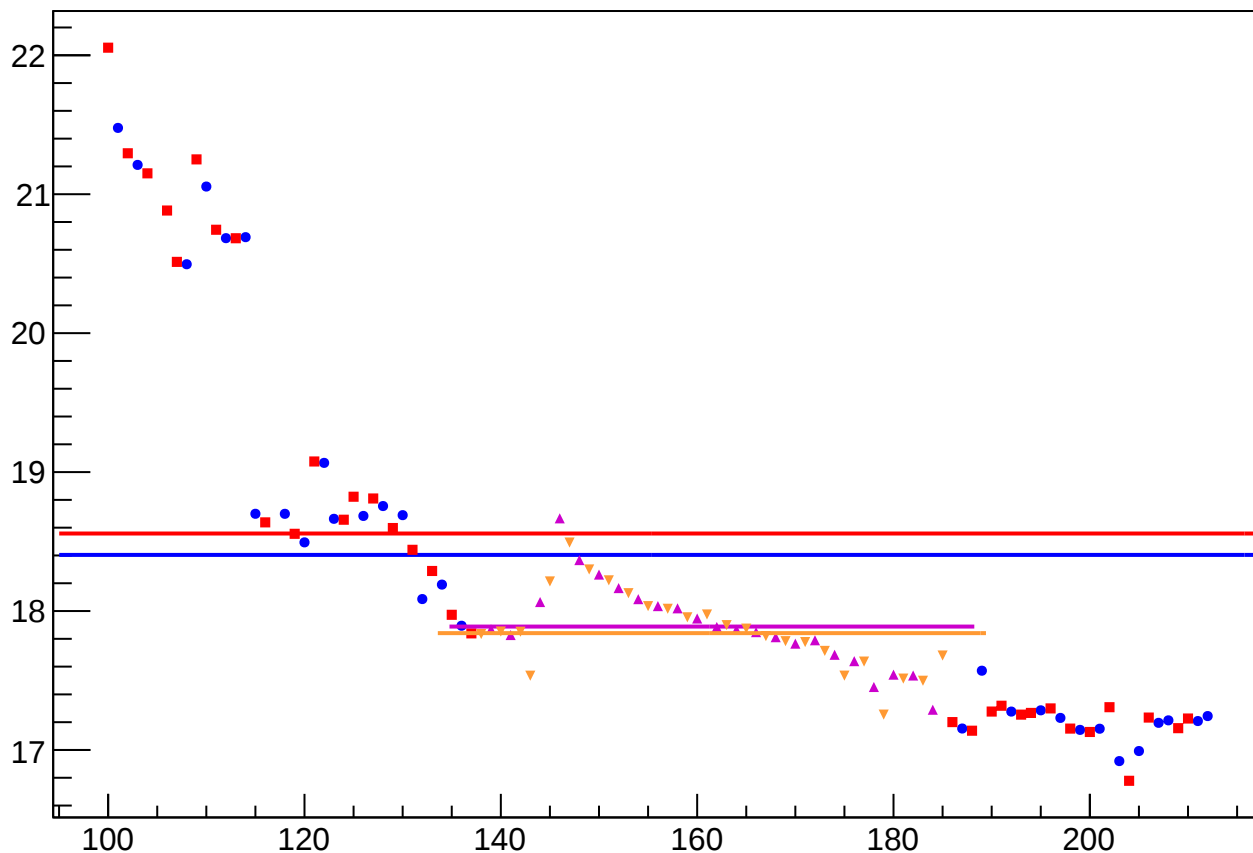
Right: 0.106 $\pm$ 0.000 χ^2 /NDF: 10252306.3/62

In: 0.075 $\pm$ 0.000 χ^2 /NDF: 8224244.8/52

Out: 0.074 $\pm$ 0.000 χ^2 /NDF: 9177561.6/57

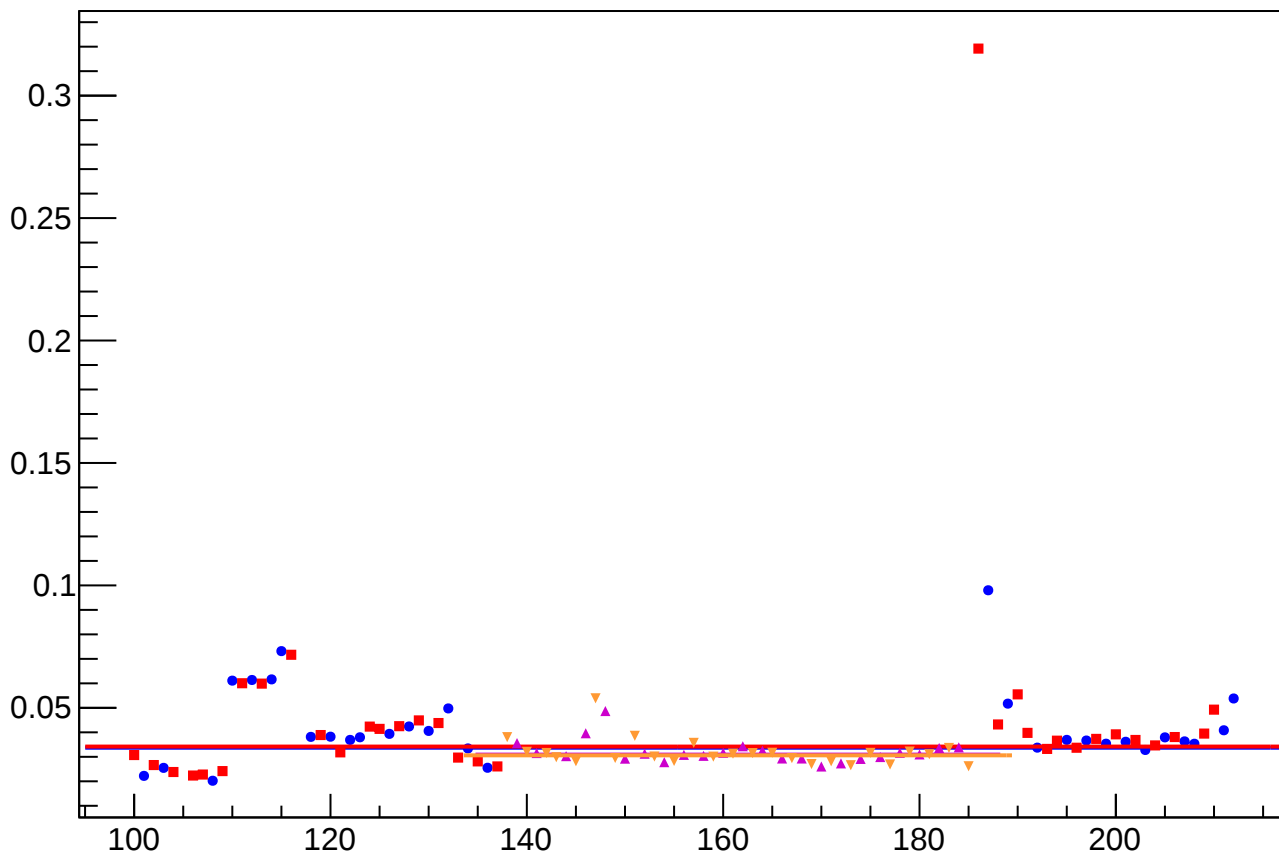
All: 0.075 $\pm$ 0.000 χ^2 /NDF: 17403639.9/110

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.404+/-0.000	χ^2/NDF : 31905257071.9/29	Left: 17.864+/-0.000	χ^2/NDF : 2506375288.6/47
Left Out: 17.841+/-0.000	χ^2/NDF : 1283287989.7/24	Right: 18.481+/-0.000	χ^2/NDF : 65767952004.0/62
Right Out: 18.558+/-0.000	χ^2/NDF : 33716206952.5/32	In: 18.103+/-0.000	χ^2/NDF : 35033030181.4/52
Left In: 17.888+/-0.000	χ^2/NDF : 1203002311.3/22	Out: 18.126+/-0.000	χ^2/NDF : 38810142770.2/57
		All: 18.115+/-0.000	χ^2/NDF : 73851167471.6

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.034+/-0.000 χ^2/NDF : 1993511.1/29

Left Out: 0.031+/-0.000 χ^2/NDF : 590475.6/24

Right Out: 0.034+/-0.000 χ^2/NDF : 2314182.0/32

Left In: 0.031+/-0.000 χ^2/NDF : 453524.6/22

Left: 0.031+/-0.000 χ^2/NDF : 1045553.8/47

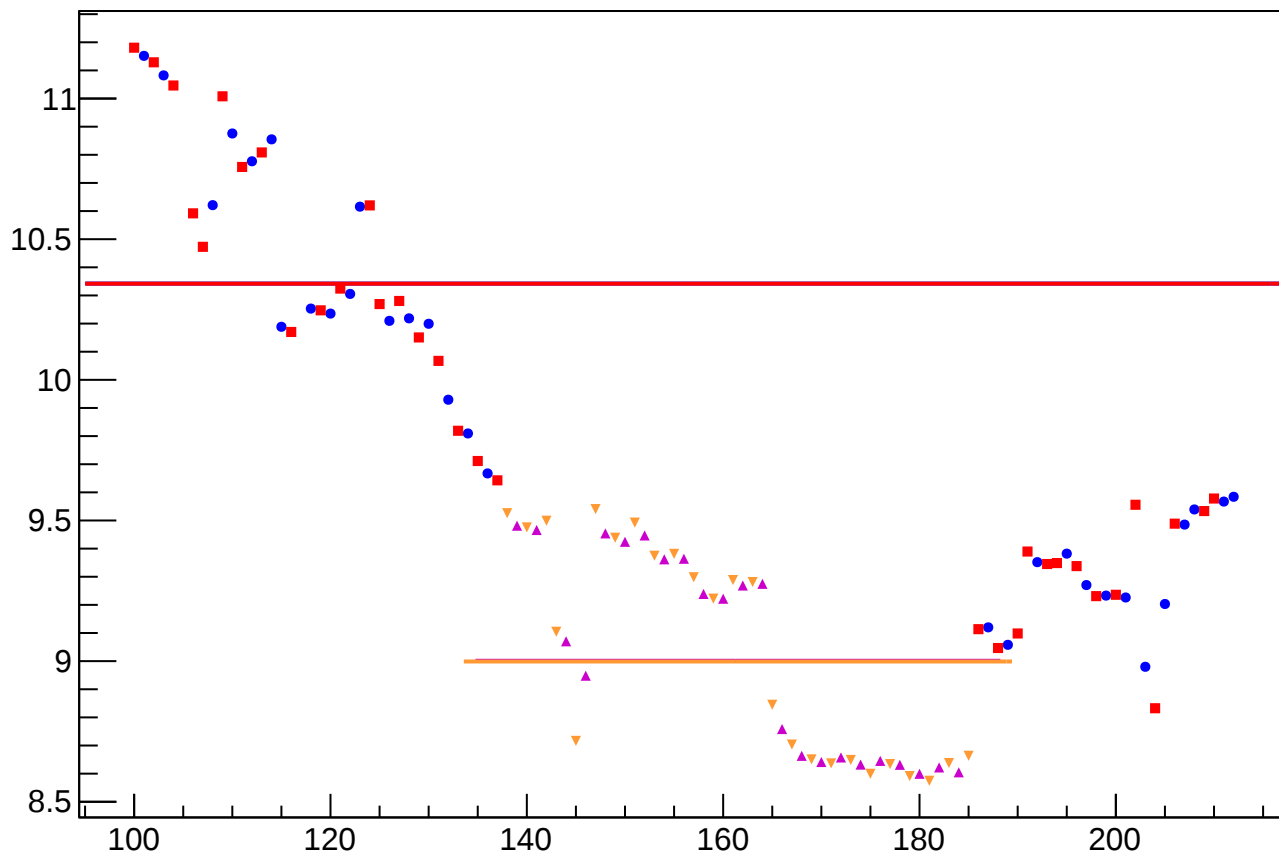
Right: 0.034+/-0.000 χ^2/NDF : 4310295.2/62

In: 0.032+/-0.000 χ^2/NDF : 2562419.6/52

Out: 0.032+/-0.000 χ^2/NDF : 3094286.4/57

All: 0.032+/-0.000 χ^2/NDF : 5656776.8/110

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.342+/-0.000 χ^2/NDF : 15390943756.1/29

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.342+/-0.000 χ^2/NDF : 13568884994.7/32

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

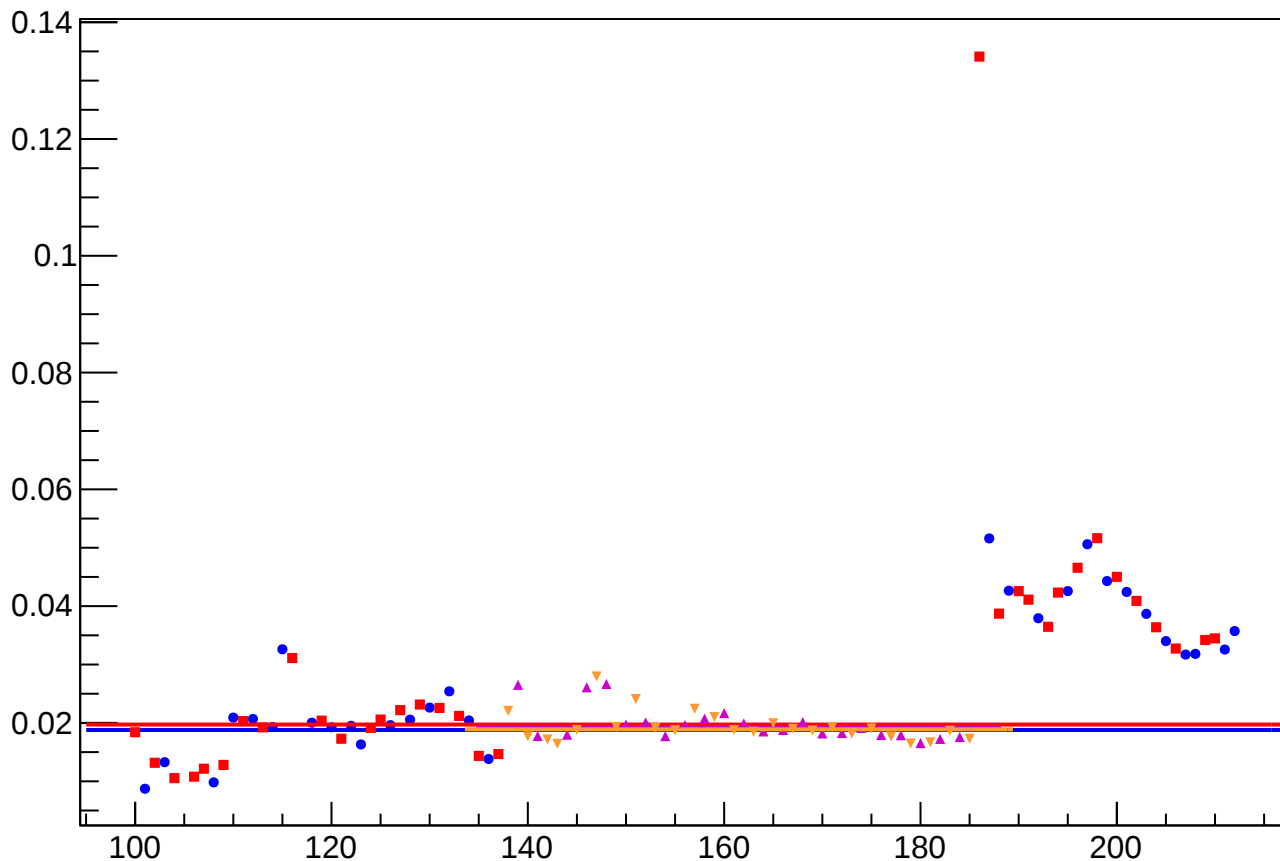
Right: 10.342+/-0.000 χ^2/NDF : 28959830553.1/62

In: 9.578+/-0.000 χ^2/NDF : 53827943652.3/52

Out: 9.533+/-0.000 χ^2/NDF : 53672483153.4/57

All: 9.555+/-0.000 χ^2/NDF : 107578896340.8

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 7174088.4/29

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 7009784.8/32

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

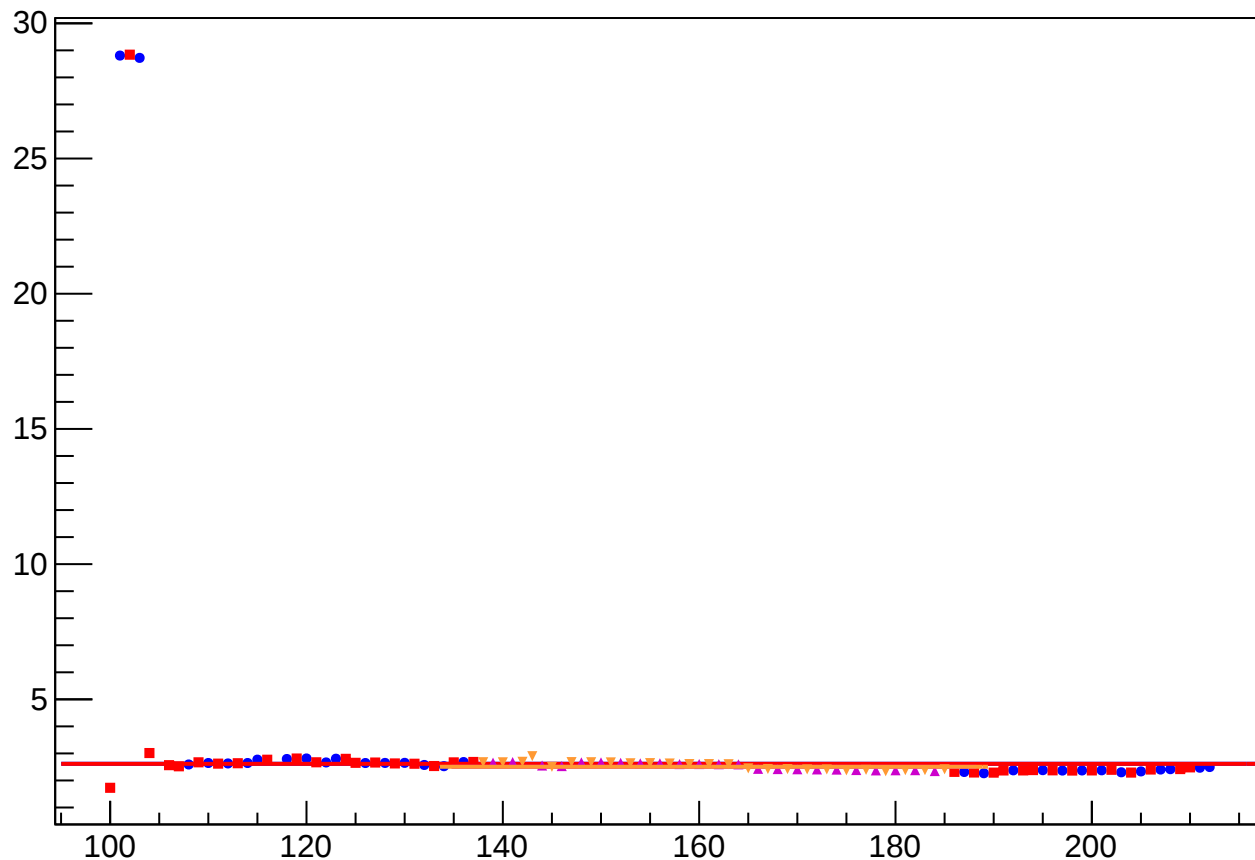
Right: 0.019+/-0.000 χ^2/NDF : 14211346.2/62

In: 0.019+/-0.000 χ^2/NDF : 7662901.6/52

Out: 0.019+/-0.000 χ^2/NDF : 7463294.5/57

All: 0.019+/-0.000 χ^2/NDF : 15128883.4/110

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.617 $\pm$ 0.000 χ^2 /NDF: 181614045731.8/29

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.615 $\pm$ 0.000 χ^2 /NDF: 90350794257.9/32

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

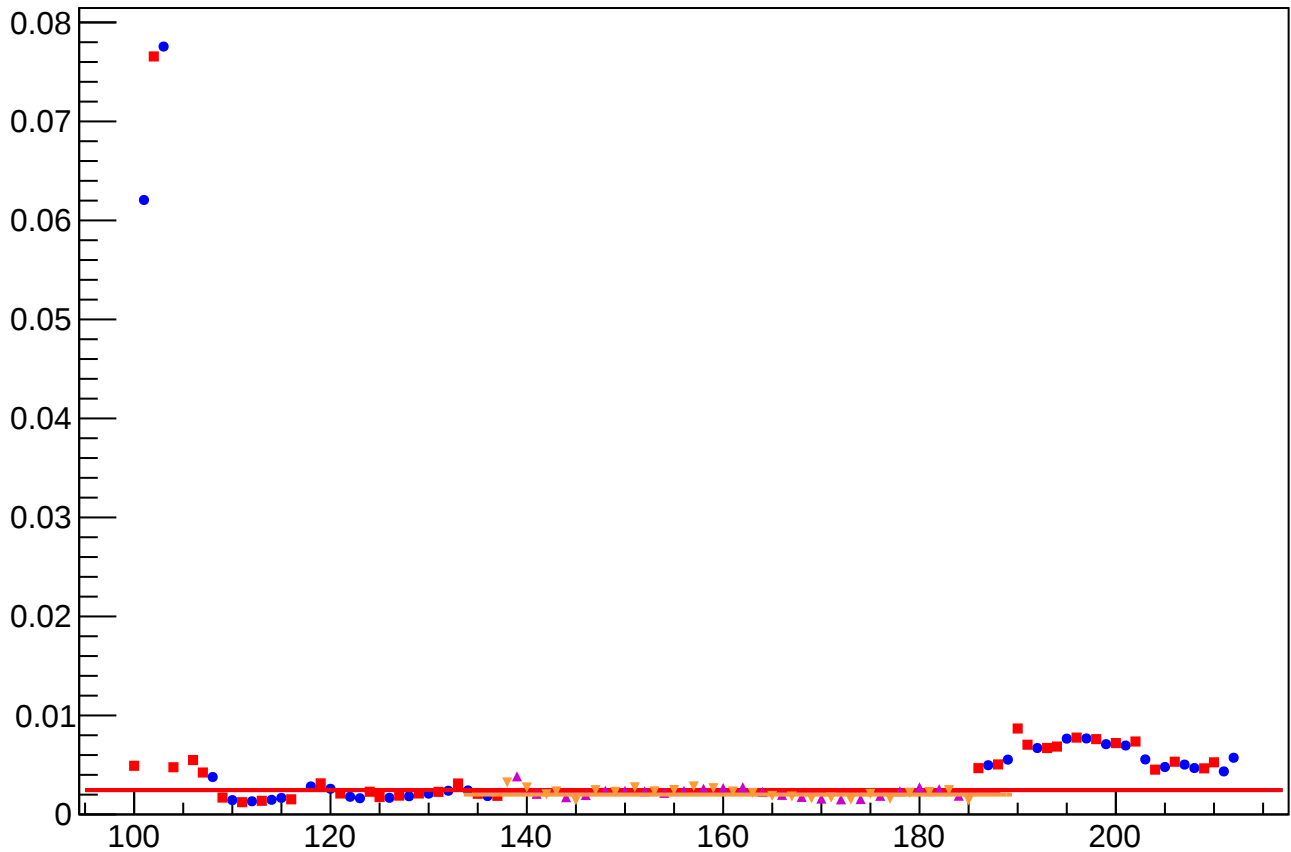
Right: 2.616 $\pm$ 0.000 χ^2 /NDF: 271969402432.4/62

In: 2.542 $\pm$ 0.000 χ^2 /NDF: 238094087536.0/52

Out: 2.541 $\pm$ 0.000 χ^2 /NDF: 168047775906.6/57

All: 2.541 $\pm$ 0.000 χ^2 /NDF: 406147748796.9

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 9848945.4/29

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 9865402.0/32

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

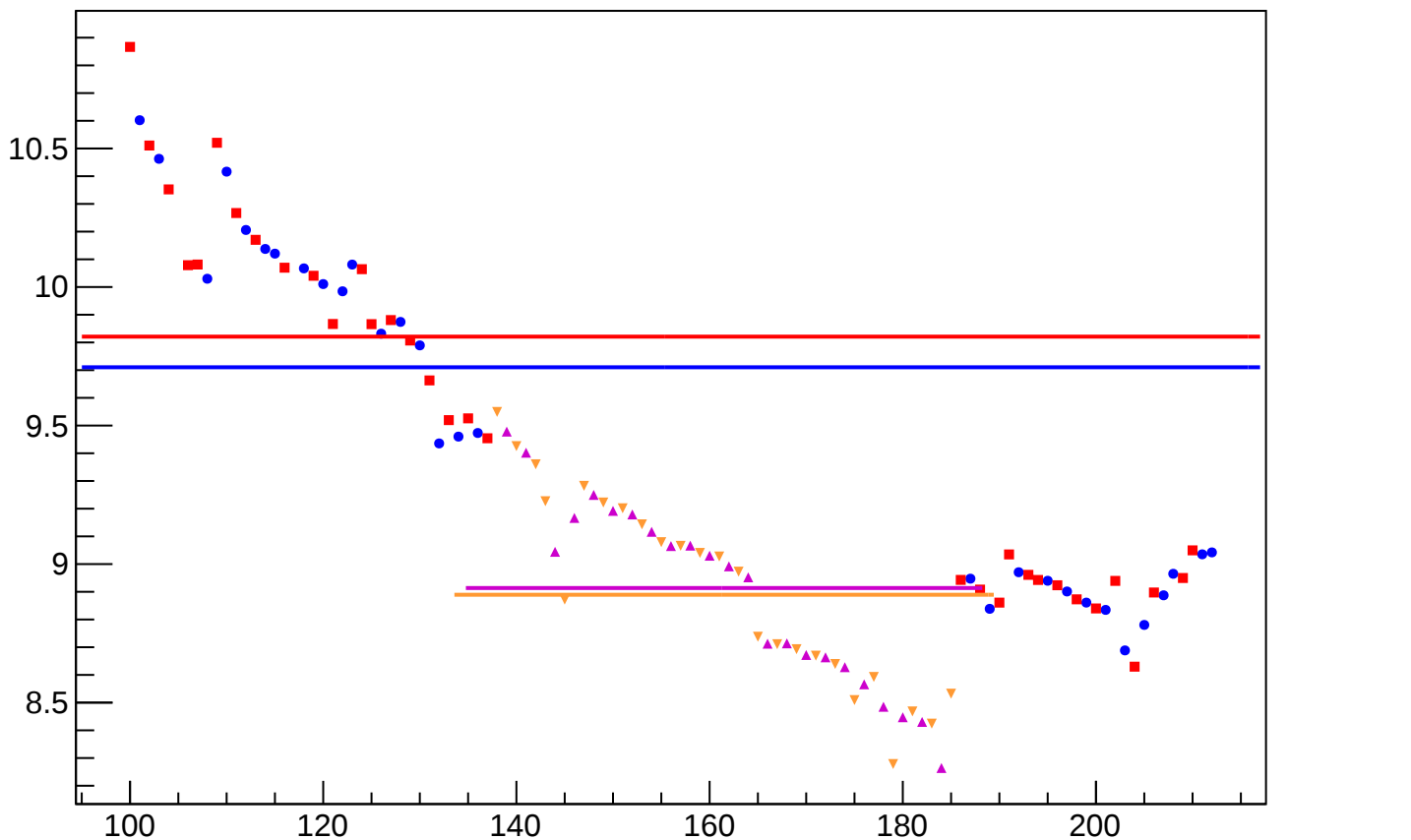
Right: 0.002+/-0.000 χ^2/NDF : 19714396.6/62

In: 0.002+/-0.000 χ^2/NDF :11498995.7/52

Out: 0.002+/-0.000 χ^2/NDF :11814522.7/57

All: 0.002+/-0.000 χ^2/NDF : 23321833.9/110

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.710 $\pm$ 0.000 χ^2 /NDF: 73610991896.1/29

Left Out: 8.889 $\pm$ 0.000 χ^2 /NDF: 34704694045.9/24

Right Out: 9.821 $\pm$ 0.000 χ^2 /NDF: 73418515947.5/32

Left In: 8.914 $\pm$ 0.000 χ^2 /NDF: 28497227562.7/22

Left: 8.901 $\pm$ 0.000 χ^2 /NDF: 63312247922.6/47

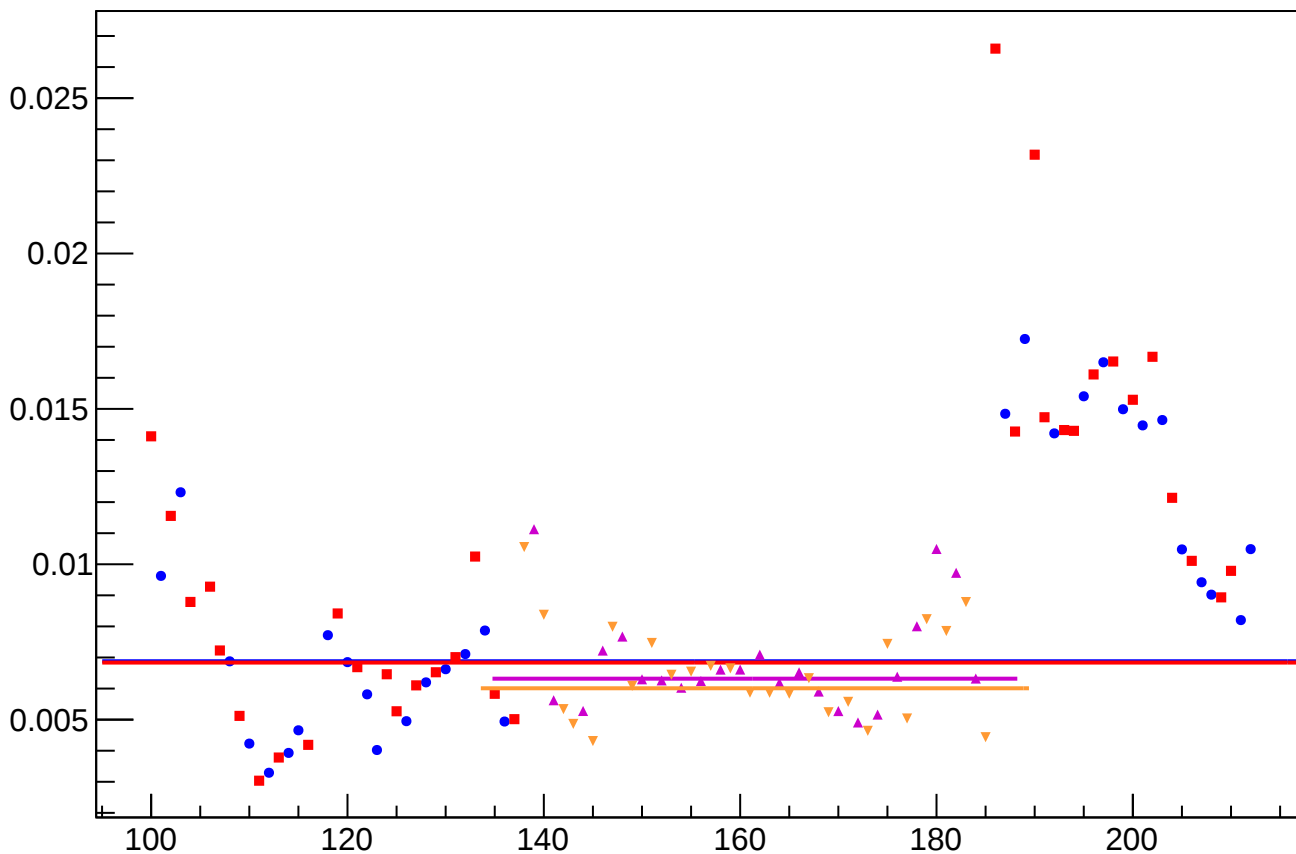
Right: 9.766 $\pm$ 0.000 χ^2 /NDF: 148527578249.2/62

In: 9.243 $\pm$ 0.000 χ^2 /NDF: 193328081435.0/52

Out: 9.242 $\pm$ 0.000 χ^2 /NDF: 240418700016.9/57

All: 9.242 $\pm$ 0.000 χ^2 /NDF: 433746846095.3

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 5945480.6/29

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7400372.3/32

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

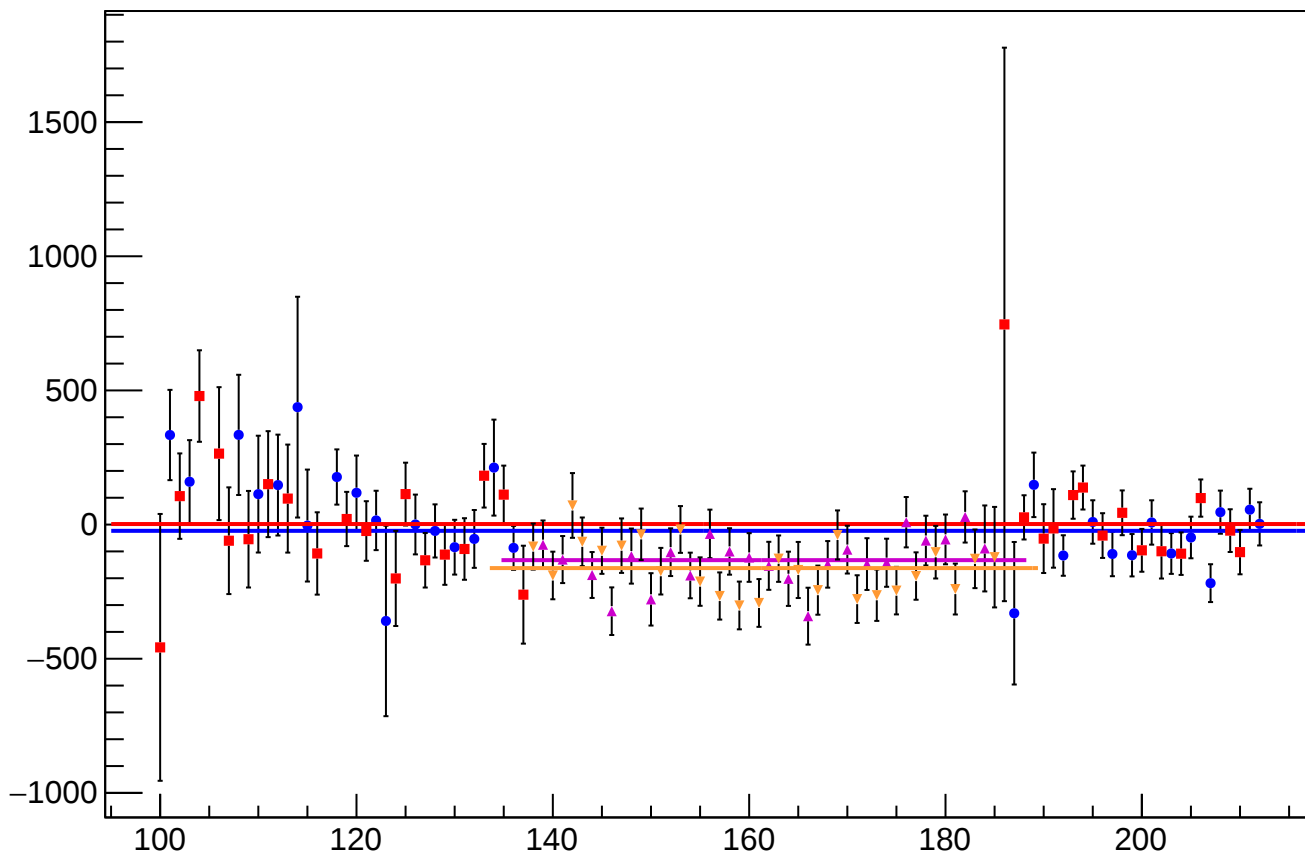
Right: 0.007+/-0.000 χ^2/NDF : 13346301.5/62

In: 0.007+/-0.000 χ^2/NDF :7123062.1/52

Out: 0.006+/-0.000 χ^2/NDF :8921606.1/57

All: 0.006+/-0.000 χ^2/NDF : 16076672.4/110

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -23.312 ± 18.784 $\chi^2/\text{NDF}: 38.0/29$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: 2.004 ± 19.204 $\chi^2/\text{NDF}: 36.6/32$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

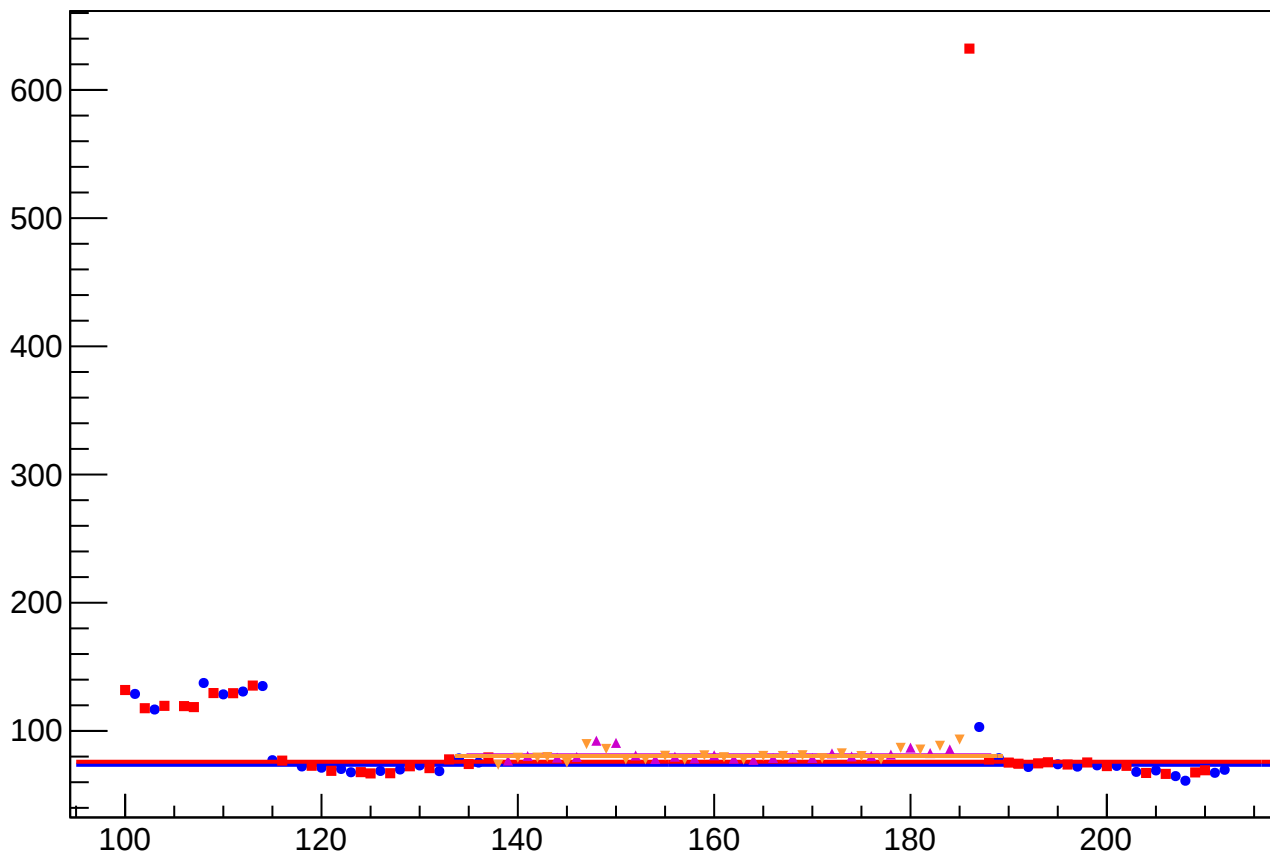
Right: -10.933 ± 13.428 $\chi^2/\text{NDF}: 75.5/62$

In: -76.165 ± 13.496 $\chi^2/\text{NDF}: 75.1/52$

Out: -82.063 ± 13.414 $\chi^2/\text{NDF}: 99.7/57$

All: -79.132 ± 9.514 $\chi^2/\text{NDF}: 174.9/110$

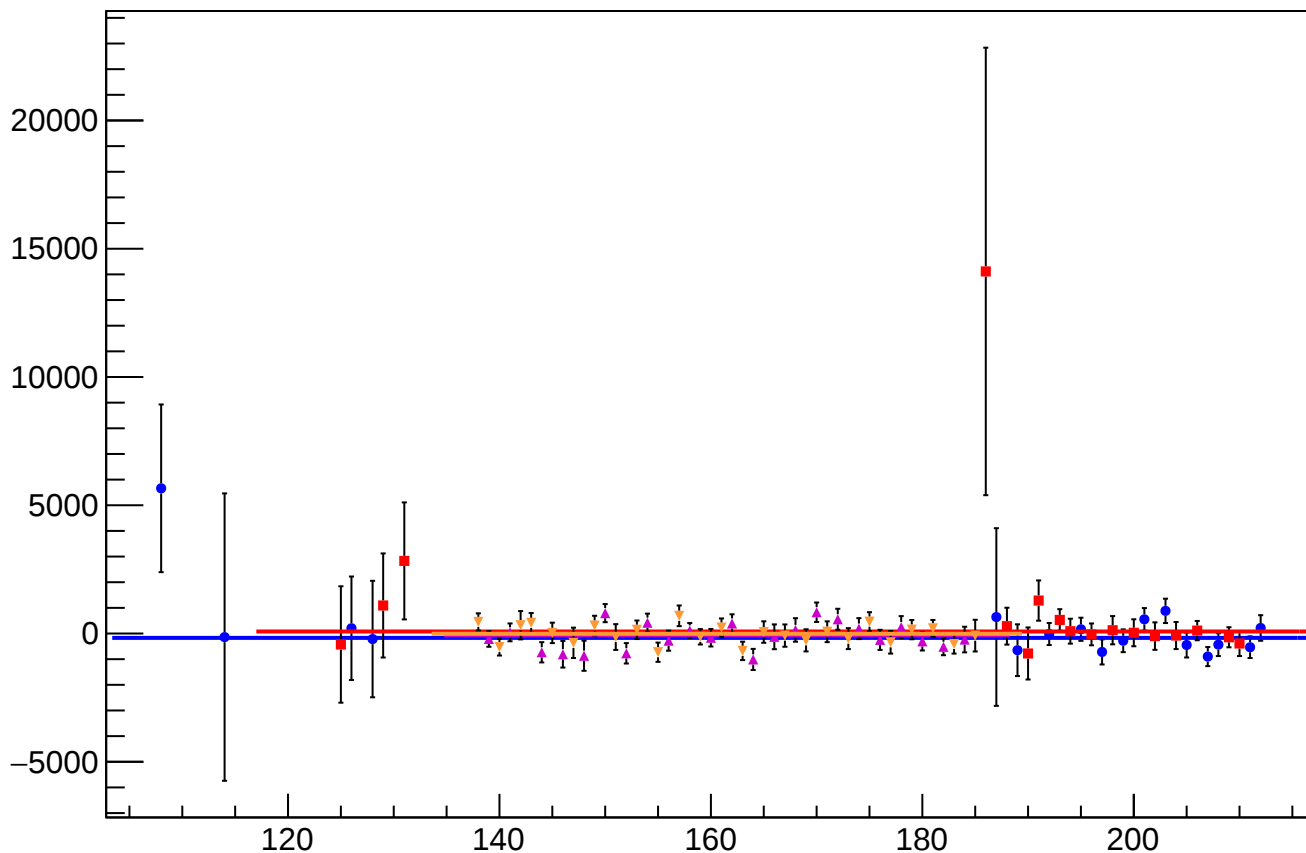
reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 73.591+/-0.013 χ^2/NDF : 1050510.5/29
 Left Out: 80.459+/-0.013 χ^2/NDF : 89942.2/24
 Right Out: 75.975+/-0.014 χ^2/NDF : 1681225.4/32
 Left In: 81.014+/-0.014 χ^2/NDF : 72250.2/22

Left: 80.727+/-0.010 χ^2/NDF : 163039.2/47
 Right: 74.757+/-0.009 χ^2/NDF : 2747486.9/62
 In: 77.182+/-0.010 χ^2/NDF : 1273839.6/52
 Out: 78.271+/-0.009 χ^2/NDF : 1826994.0/57
 All: 77.730+/-0.007 χ^2/NDF : 3107382.9/110

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -169.719+/-132.483 χ^2/NDF : 19.0/16

Left Out: -10.486+/-78.391 χ^2/NDF : 22.5/24

Right Out: 79.392+/-138.150 χ^2/NDF : 10.2/16

Left In: -64.591+/-80.047 χ^2/NDF : 37.4/22

Left: -36.973+/-56.007 χ^2/NDF : 60.2/47

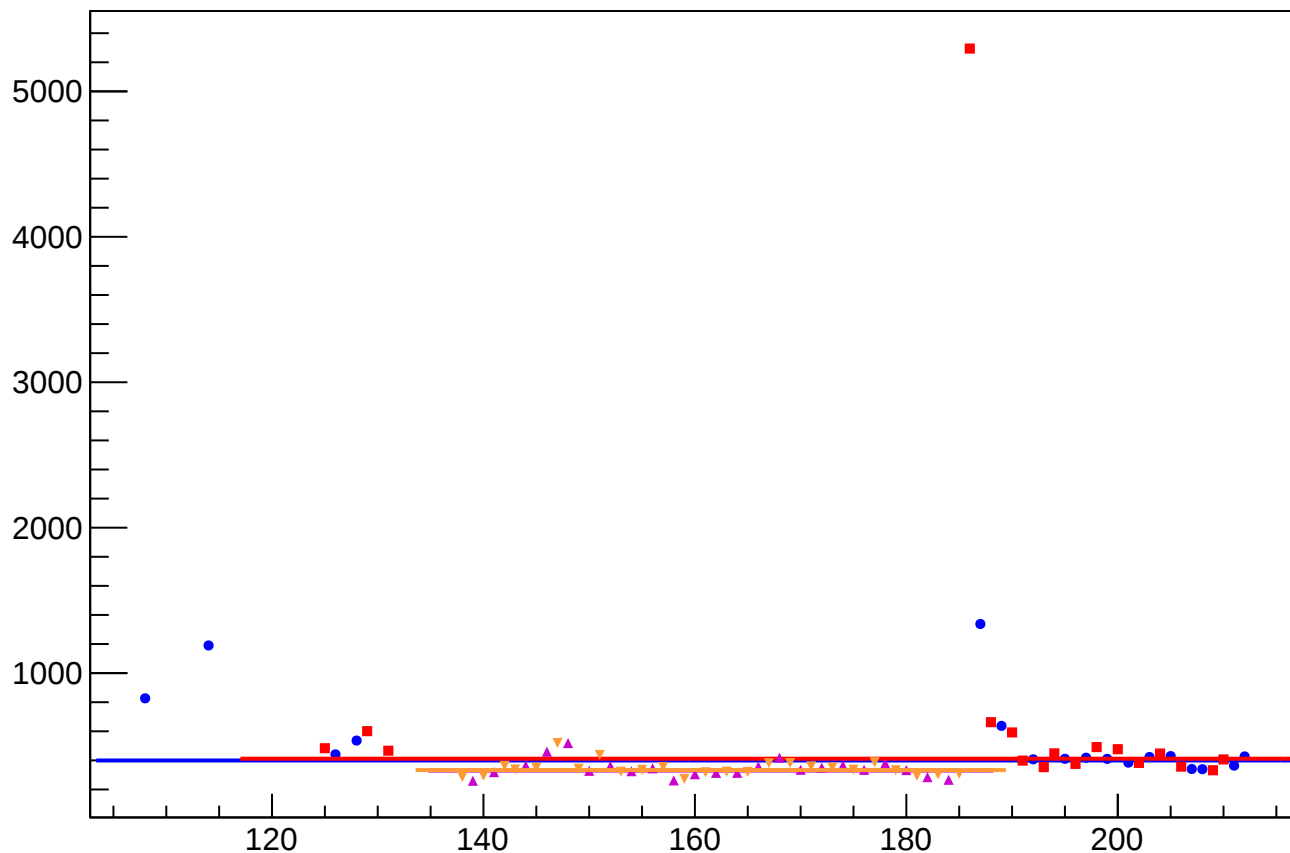
Right: -50.377+/-95.620 χ^2/NDF : 30.9/33

In: -92.706+/-68.512 χ^2/NDF : 56.9/39

Out: 11.405+/-68.179 χ^2/NDF : 33.1/41

All: -40.397+/-48.327 χ^2/NDF : 91.1/81

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 399.348+/-0.094 χ^2/NDF : 467473.8/16

Left Out: 333.233+/-0.055 χ^2/NDF :592122.2/24

Right Out: 411.671+/-0.098 χ^2/NDF : 1231656.1/16

Left In: 329.985+/-0.057 χ^2/NDF :795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

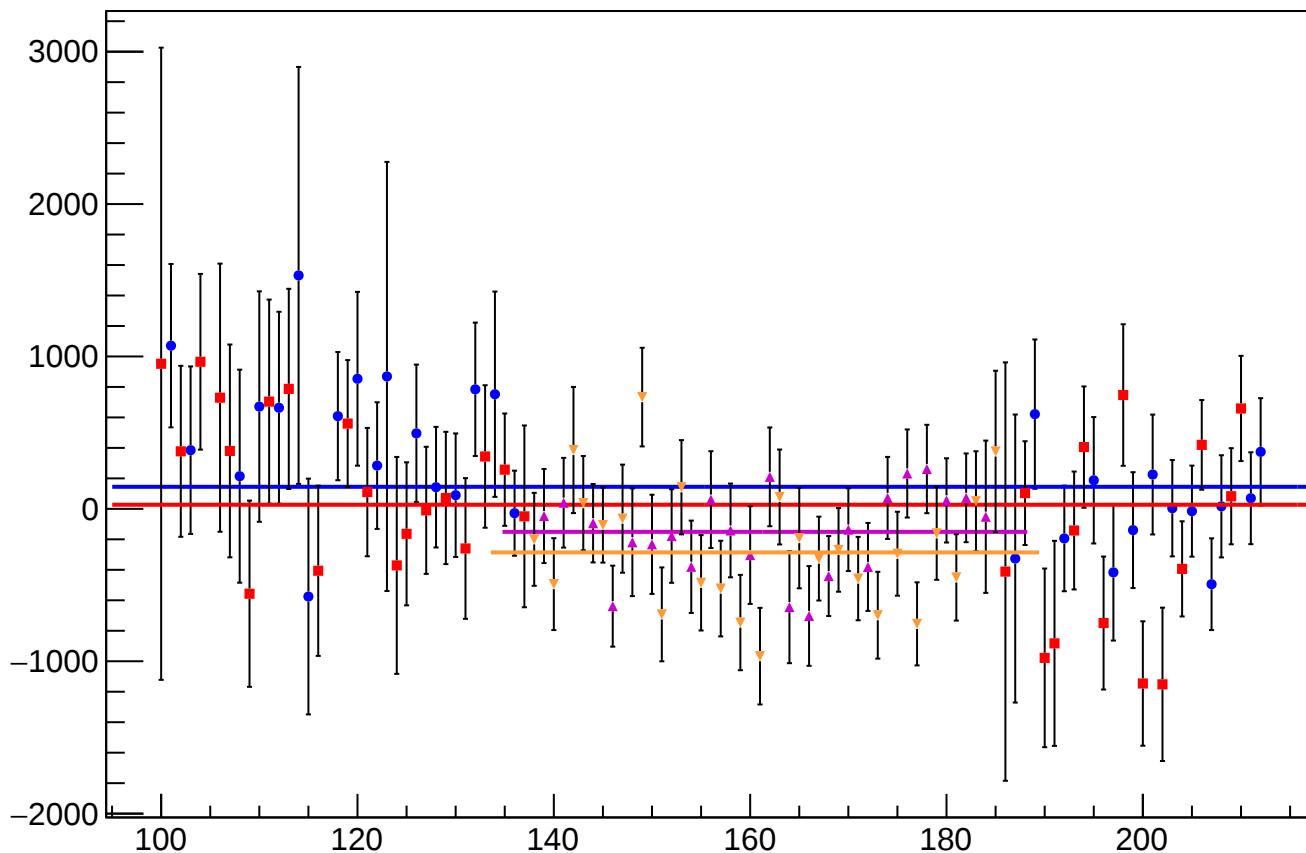
Right: 405.252+/-0.068 χ^2/NDF : 1707420.2/33

In: 348.535+/-0.048 χ^2/NDF :1665056.6/39

Out: 352.338+/-0.048 χ^2/NDF :2311487.4/41

All: 350.446+/-0.034 χ^2/NDF : 3979639.2/81

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 144.687 $\pm$ 77.615 χ^2/NDF : 23.3/29

Left Out: -286.030 $\pm$ 61.095 χ^2/NDF :36.6/24

Right Out: 26.942 $\pm$ 80.072 χ^2/NDF : 43.7/32

Left In: -150.920 $\pm$ 62.818 χ^2/NDF :18.7/22

Left: -220.353 $\pm$ 43.797 χ^2/NDF : 57.6/47

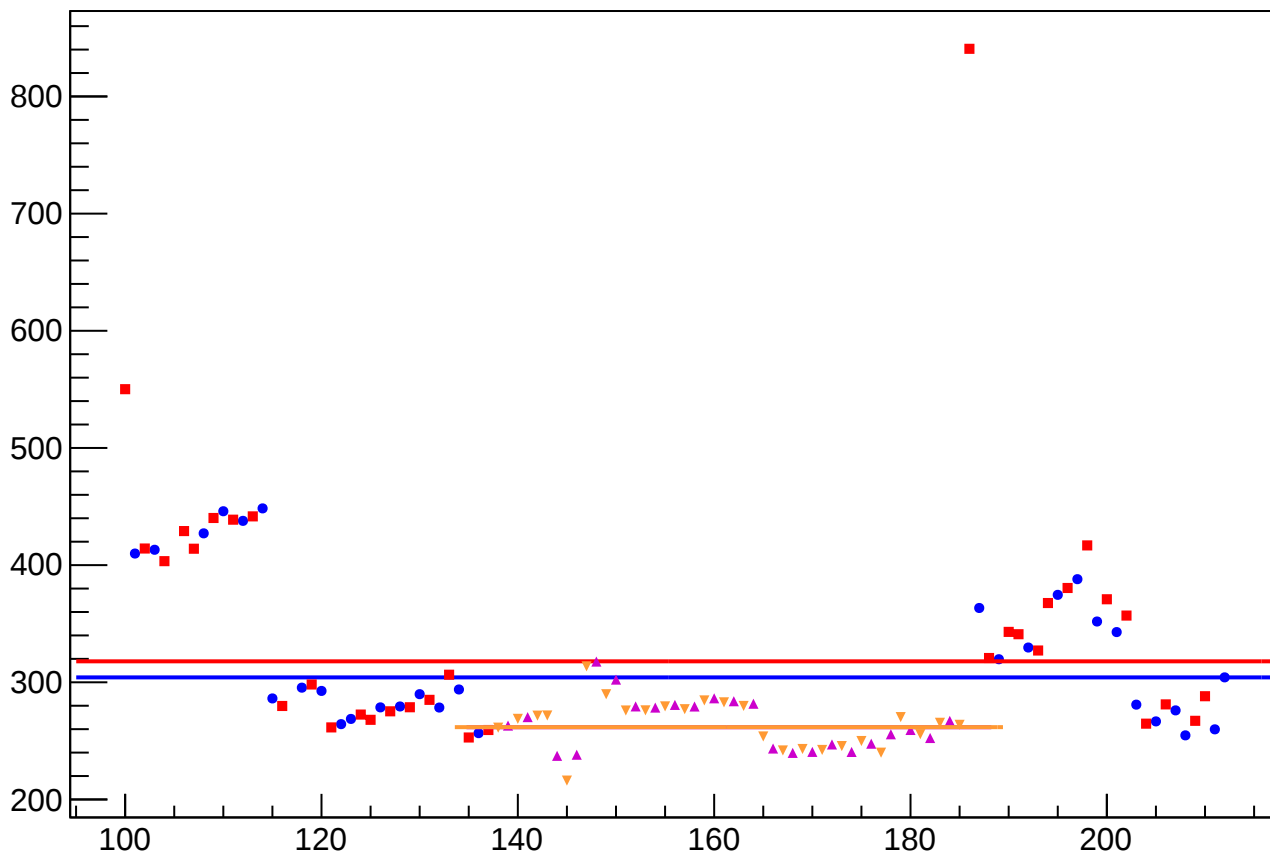
Right: 87.649 $\pm$ 55.730 χ^2/NDF : 68.2/62

In: -33.922 $\pm$ 48.829 χ^2/NDF :50.8/52

Out: -170.871 $\pm$ 48.571 χ^2/NDF :90.0/57

All: -102.759 $\pm$ 34.436 χ^2/NDF : 144.7/110

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 304.185+/-0.055 χ^2/NDF : 851904.0/29

Left Out: 261.722+/-0.043 χ^2/NDF :233222.6/24

Right Out: 317.896+/-0.057 χ^2/NDF : 1286920.4/32

Left In: 261.637+/-0.044 χ^2/NDF :228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

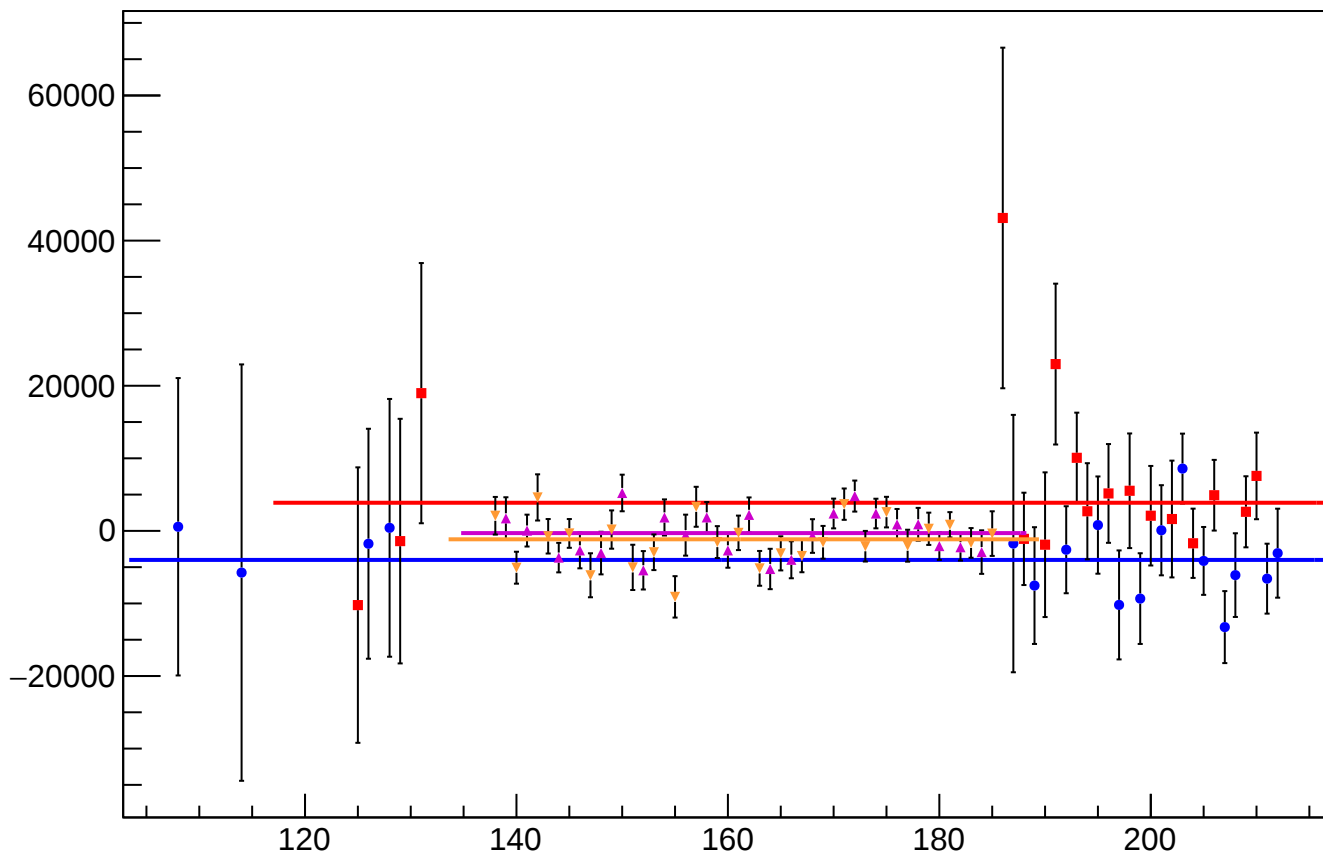
Right: 310.827+/-0.039 χ^2/NDF : 2169060.2/62

In: 278.477+/-0.035 χ^2/NDF :1443296.6/52

Out: 282.391+/-0.034 χ^2/NDF :2142290.0/57

All: 280.444+/-0.024 χ^2/NDF : 3592047.8/110

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -4000.974 $\pm$ 1626.690 χ^2 /NDF: 13.5/16

Left Out: -1161.443 $\pm$ 469.036 χ^2 /NDF:38.8/24

Right Out: 3877.109 $\pm$ 1733.127 χ^2 /NDF: 11.2/16

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

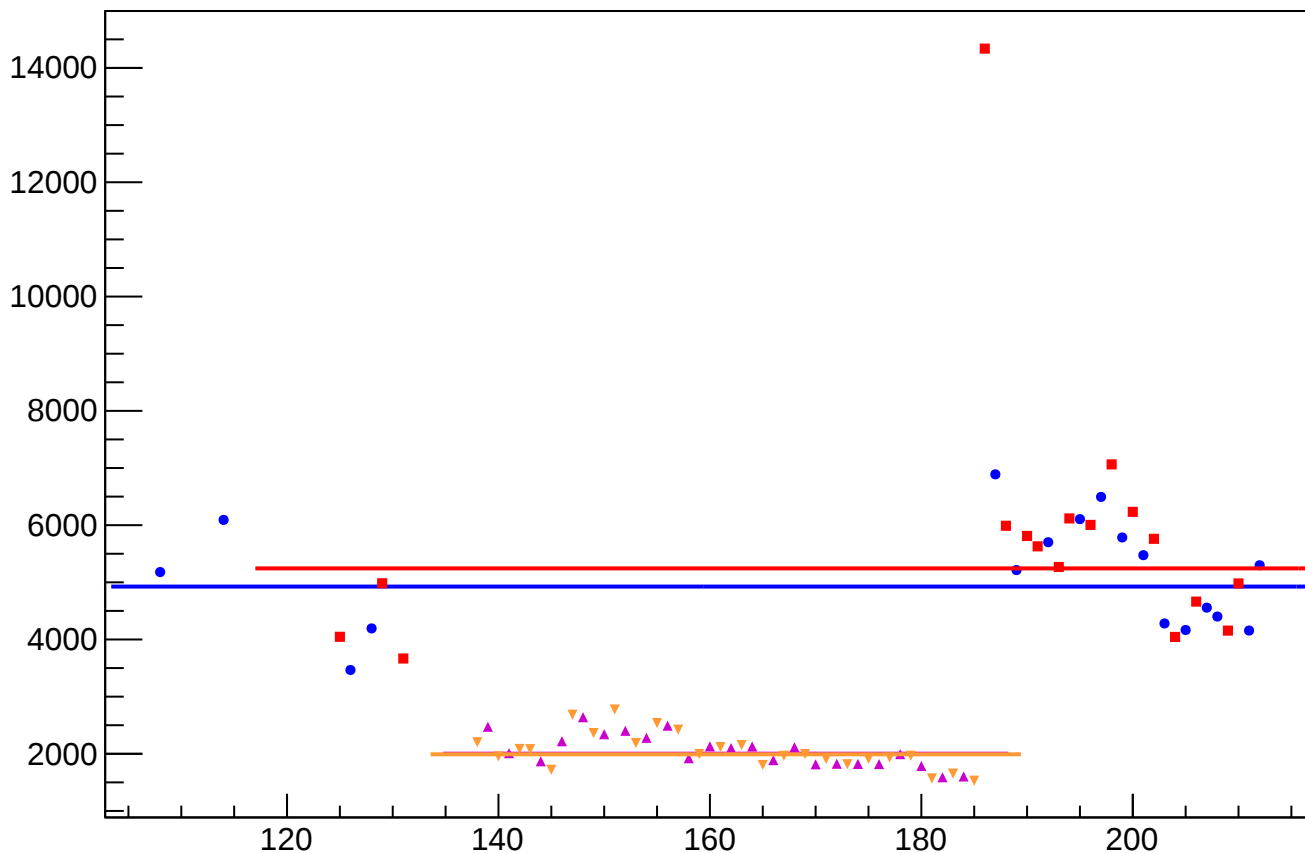
Right: -311.256 $\pm$ 1186.087 χ^2 /NDF: 35.7/33

In: -604.752 $\pm$ 463.706 χ^2 /NDF:53.6/39

Out: -817.599 $\pm$ 452.749 χ^2 /NDF:57.8/41

All: -713.720 $\pm$ 323.946 χ^2 /NDF: 111.5/81

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4925.928+/-1.150 χ^2/NDF : 461958.7/16

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5243.620+/-1.226 χ^2/NDF : 834089.6/16

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

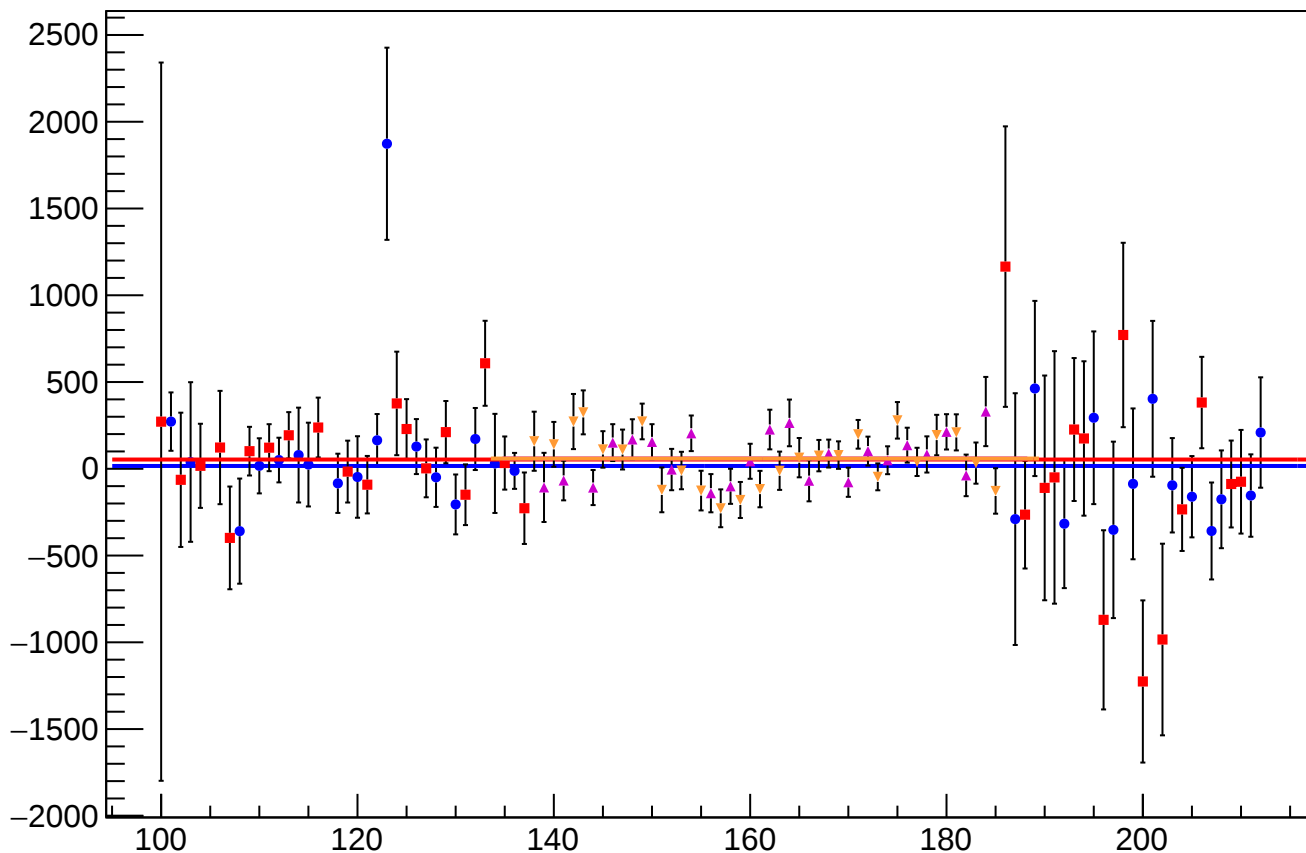
Right: 5074.720+/-0.839 χ^2/NDF : 1331776.1/33

In: 2239.739+/-0.328 χ^2/NDF : 6984002.3/39

Out: 2213.064+/-0.320 χ^2/NDF : 8123529.6/41

All: 2226.083+/-0.229 χ^2/NDF : 15110920.2/80

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 16.224 $\pm$ 39.489 χ^2 /NDF: 27.0/29

Left Out: 58.983 $\pm$ 21.137 χ^2 /NDF: 46.9/24

Right Out: 53.369 $\pm$ 39.627 χ^2 /NDF: 40.3/32

Left In: 59.235 $\pm$ 21.921 χ^2 /NDF: 29.4/22

Left: 59.104 $\pm$ 15.216 χ^2 /NDF: 76.3/47

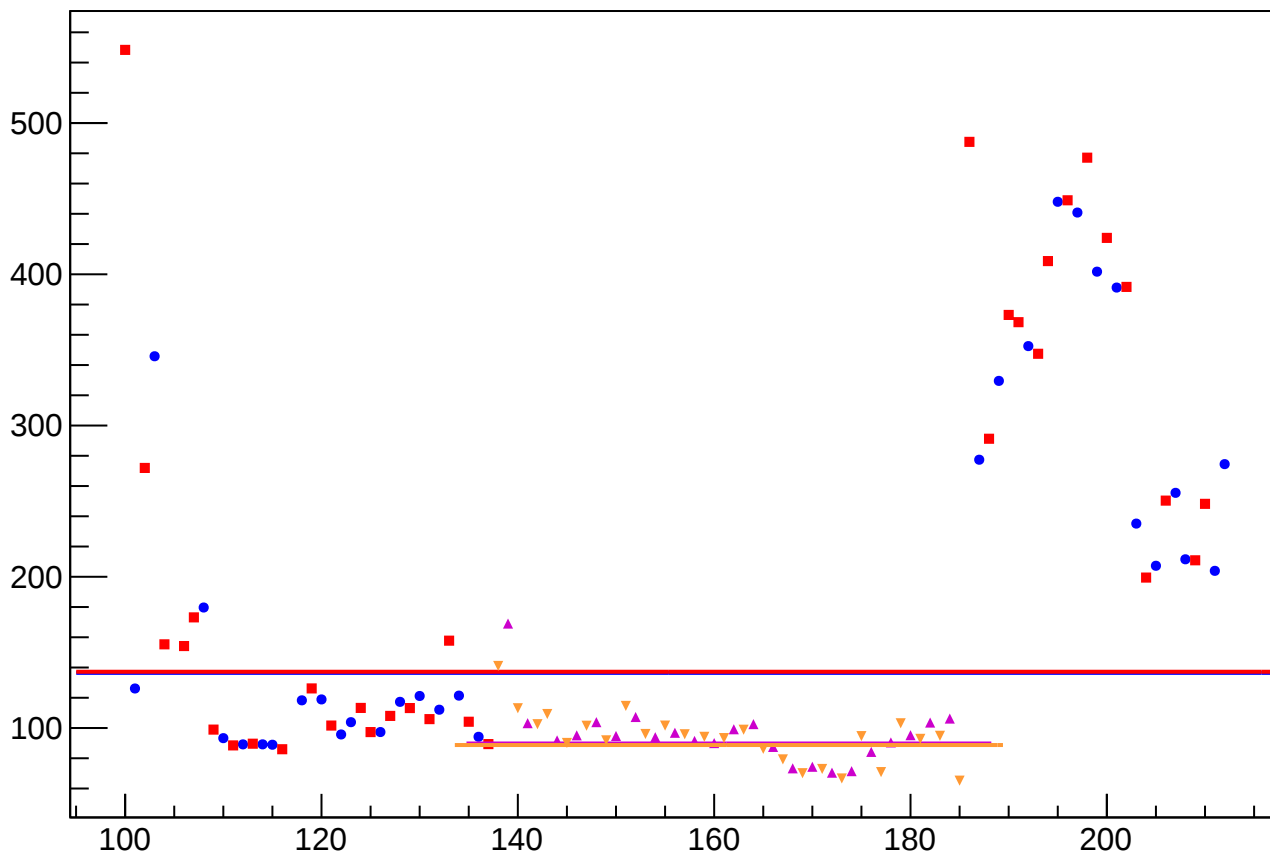
Right: 34.732 $\pm$ 27.972 χ^2 /NDF: 67.7/62

In: 49.103 $\pm$ 19.166 χ^2 /NDF: 57.3/52

Out: 57.739 $\pm$ 18.650 χ^2 /NDF: 87.2/57

All: 53.539 $\pm$ 13.366 χ^2 /NDF: 144.6/110

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 136.464 $\pm$ 0.028 χ^2 /NDF: 7165920.1/29

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 137.209 $\pm$ 0.028 χ^2 /NDF: 8084989.9/32

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

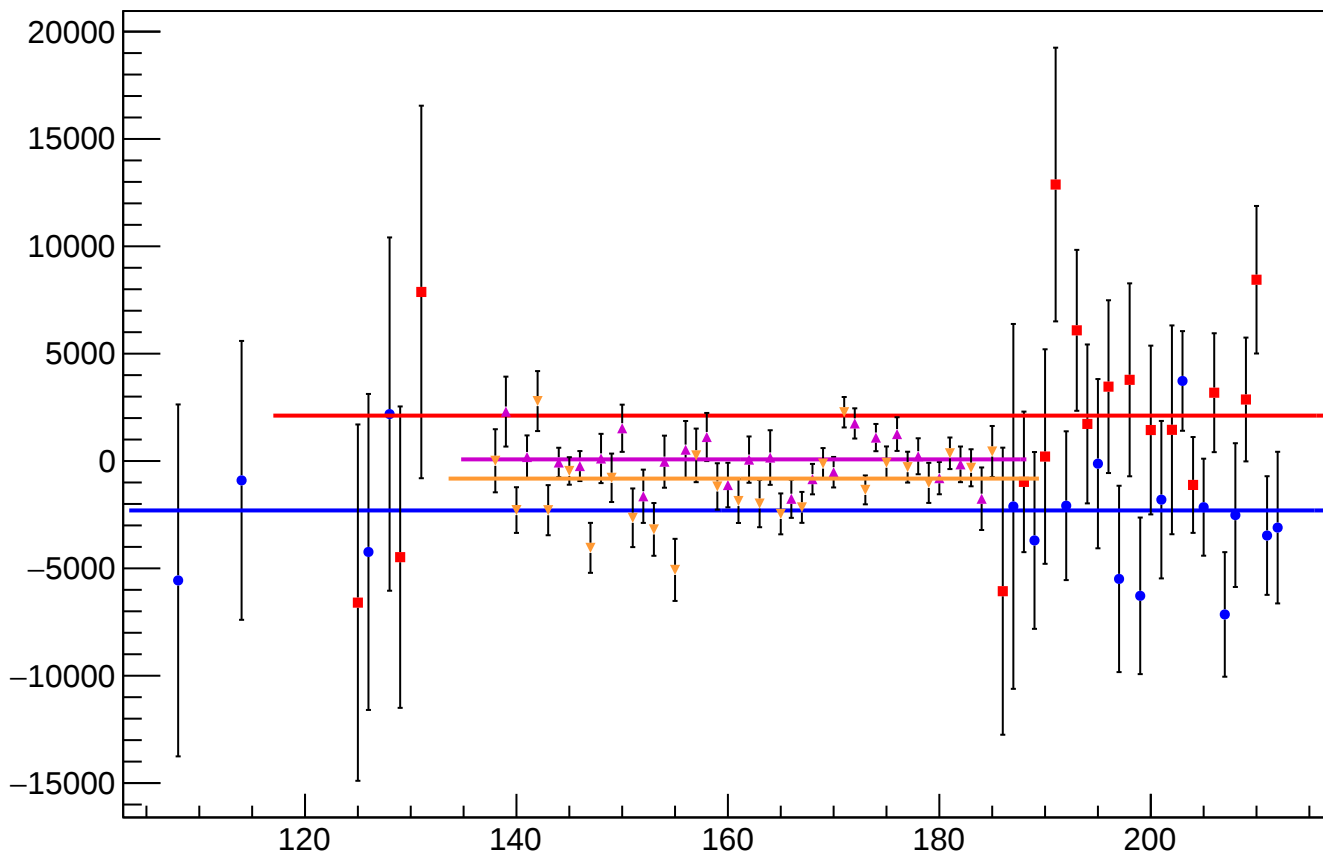
Right: 136.835 $\pm$ 0.020 χ^2 /NDF: 15251265.0/62

In: 100.766 $\pm$ 0.014 χ^2 /NDF:10189769.5/52

Out: 99.482 $\pm$ 0.013 χ^2 /NDF:11492863.1/57

All: 100.107 $\pm$ 0.009 χ^2 /NDF: 21687243.4/11

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2302.137 $\pm$ 878.504 χ^2 /NDF: 12.5/16

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: 2114.699 $\pm$ 941.895 χ^2 /NDF: 14.9/16

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

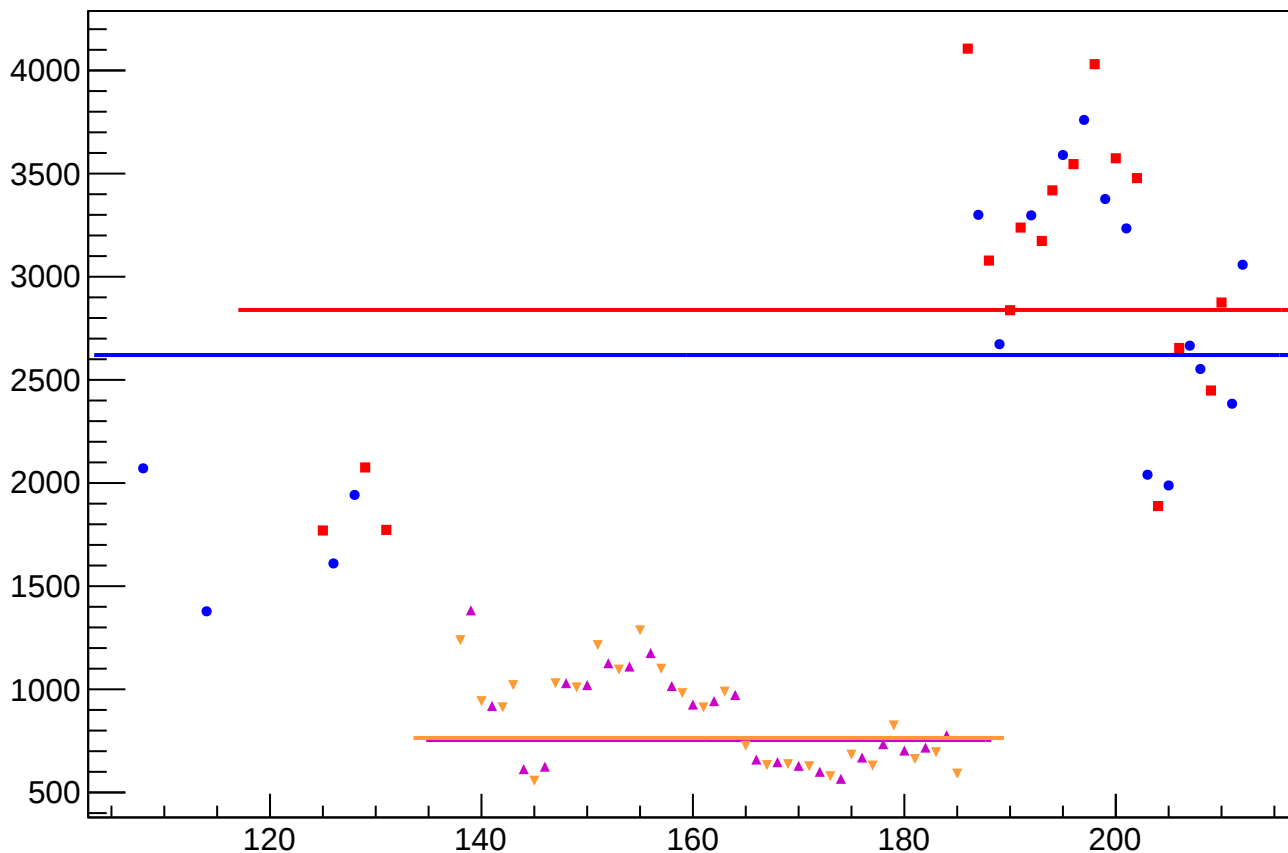
Right: -247.339 $\pm$ 642.438 χ^2 /NDF: 39.2/33

In: -26.520 $\pm$ 182.575 χ^2 /NDF:47.8/39

Out: -710.516 $\pm$ 181.025 χ^2 /NDF:92.5/41

All: -371.435 $\pm$ 128.549 χ^2 /NDF: 147.4/81

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2620.481+/-0.621 χ^2 /NDF: 952222.8/16

Left Out: 764.280+/-0.130 χ^2 /NDF: 2315985.8/24

Right Out: 2838.991+/-0.666 χ^2 /NDF: 957776.8/16

Left In: 754.027+/-0.132 χ^2 /NDF: 2013386.7/22

Left: 759.214+/-0.093 χ^2 /NDF: 4332425.4/47

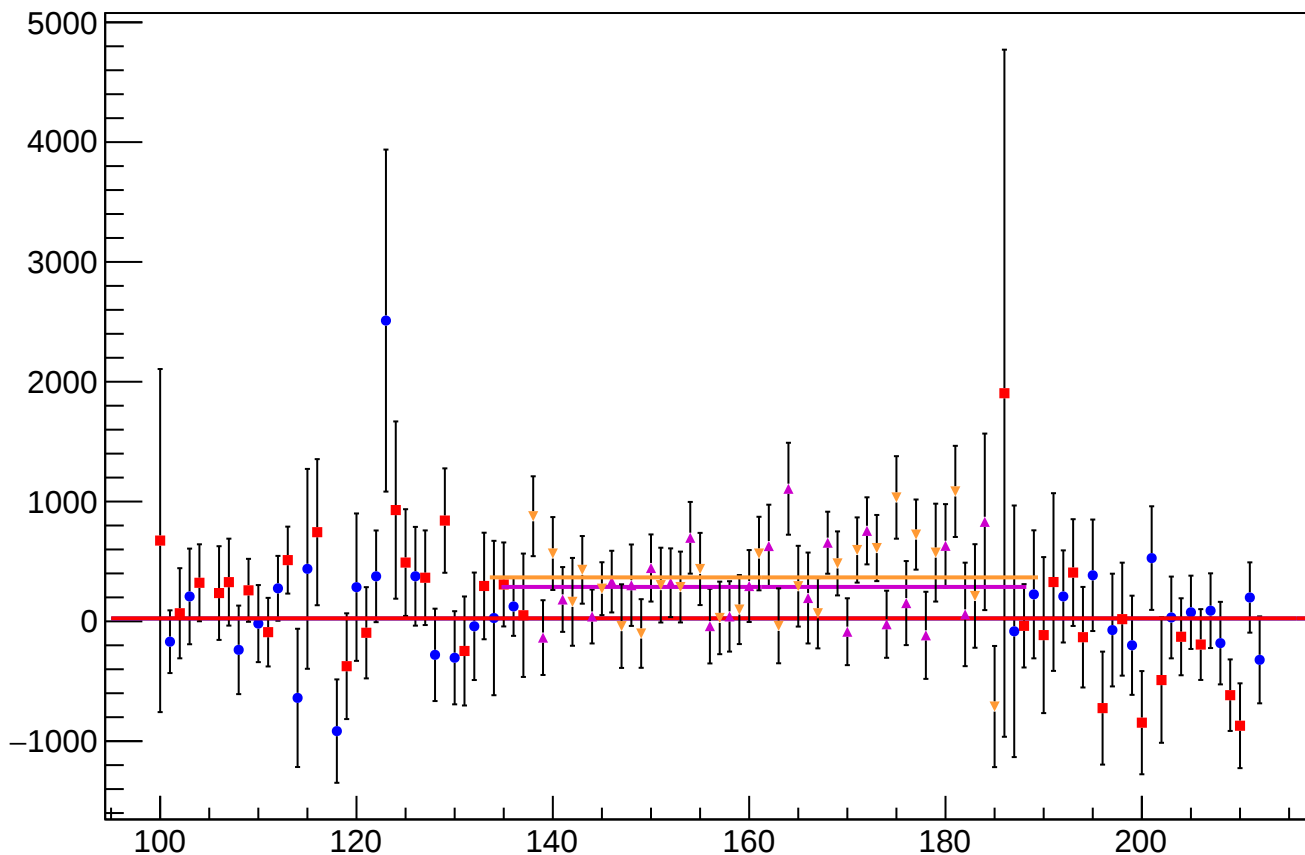
Right: 2722.136+/-0.454 χ^2 /NDF: 1967562.7/33

In: 834.641+/-0.129 χ^2 /NDF: 11603396.8/39

Out: 840.915+/-0.128 χ^2 /NDF: 12619098.1/41

All: 837.805+/-0.091 χ^2 /NDF: 24223685.7/81

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 23.733+/-70.154 χ^2/NDF : 19.1/29

Left Out: 367.028+/-61.943 χ^2/NDF :28.2/24

Right Out: 25.057+/-69.404 χ^2/NDF : 37.5/32

Left In: 287.246+/-64.141 χ^2/NDF :23.9/22

Left: 328.527+/-44.557 χ^2/NDF : 52.9/47

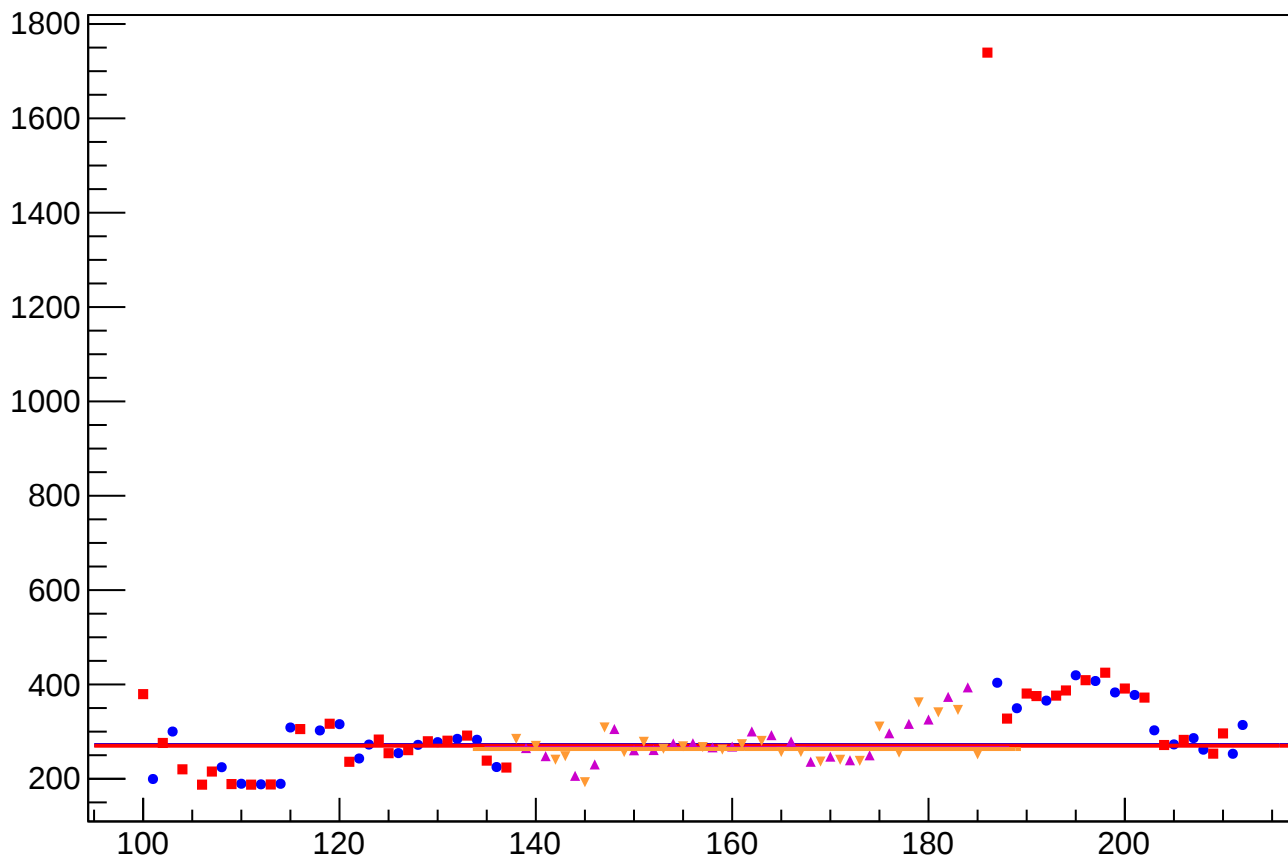
Right: 24.402+/-49.339 χ^2/NDF : 56.6/62

In: 167.267+/-47.338 χ^2/NDF :50.7/52

Out: 215.406+/-46.214 χ^2/NDF :79.3/57

All: 191.914+/-33.068 χ^2/NDF : 130.5/110

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 271.653 $\pm$ 0.050 χ^2 /NDF: 1554318.0/29

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 270.170 $\pm$ 0.049 χ^2 /NDF: 2405618.7/32

Left In: 264.923 $\pm$ 0.045 χ^2 /NDF: 609024.7/22

Left: 263.981 $\pm$ 0.032 χ^2 /NDF: 1252084.1/47

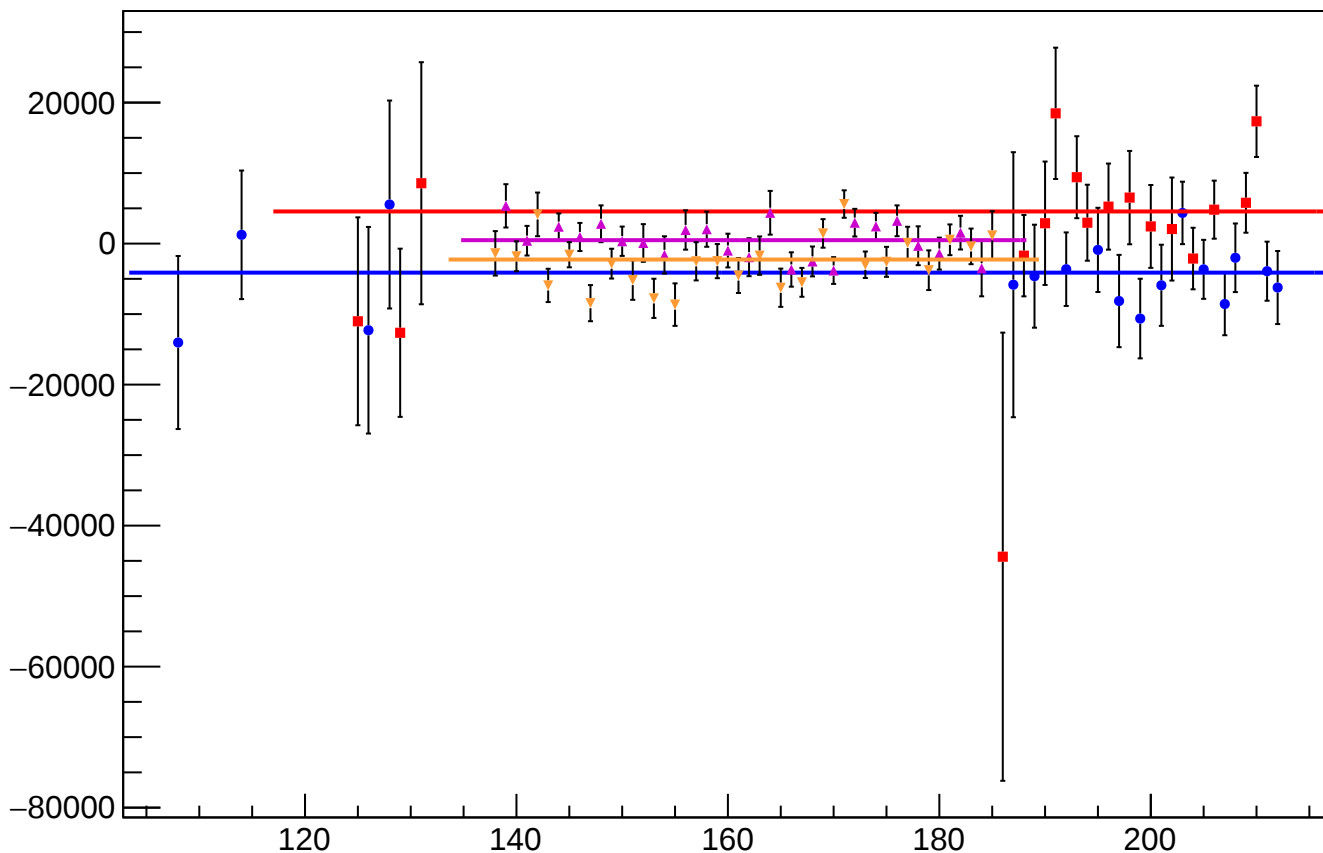
Right: 270.903 $\pm$ 0.035 χ^2 /NDF: 3960388.1/62

In: 267.987 $\pm$ 0.033 χ^2 /NDF: 2173366.7/52

Out: 266.236 $\pm$ 0.033 χ^2 /NDF: 3059387.4/57

All: 267.091 $\pm$ 0.023 χ^2 /NDF: 5234154.8/110

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -4119.007 $\pm$ 1421.671 χ^2 /NDF: 8.9/16

Left Out: -2260.196 $\pm$ 475.336 χ^2 /NDF: 52.3/24

Right Out: 4558.310 $\pm$ 1510.888 χ^2 /NDF: 19.0/16

Left In: 485.590 $\pm$ 487.465 χ^2 /NDF: 24.8/22

Left: -921.890 $\pm$ 340.321 χ^2 /NDF: 93.4/47

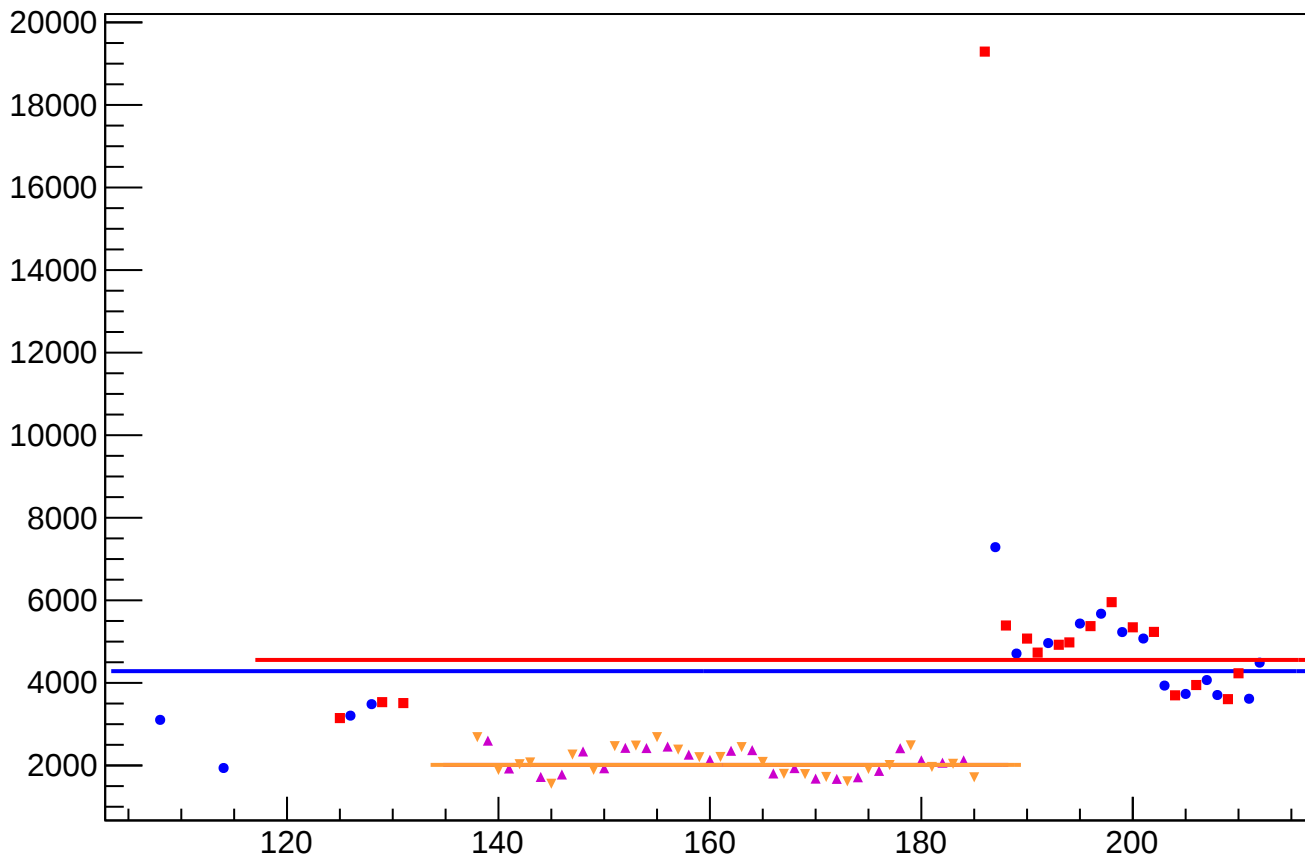
Right: -44.094 $\pm$ 1035.377 χ^2 /NDF: 45.4/33

In: 1.187 $\pm$ 461.112 χ^2 /NDF: 43.0/39

Out: -1646.100 $\pm$ 453.425 χ^2 /NDF: 89.9/41

All: -836.301 $\pm$ 323.304 χ^2 /NDF: 139.4/81

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4284.487+/-1.005 χ^2/NDF : 652580.2/16

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4556.352+/-1.068 χ^2/NDF : 947988.5/16

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

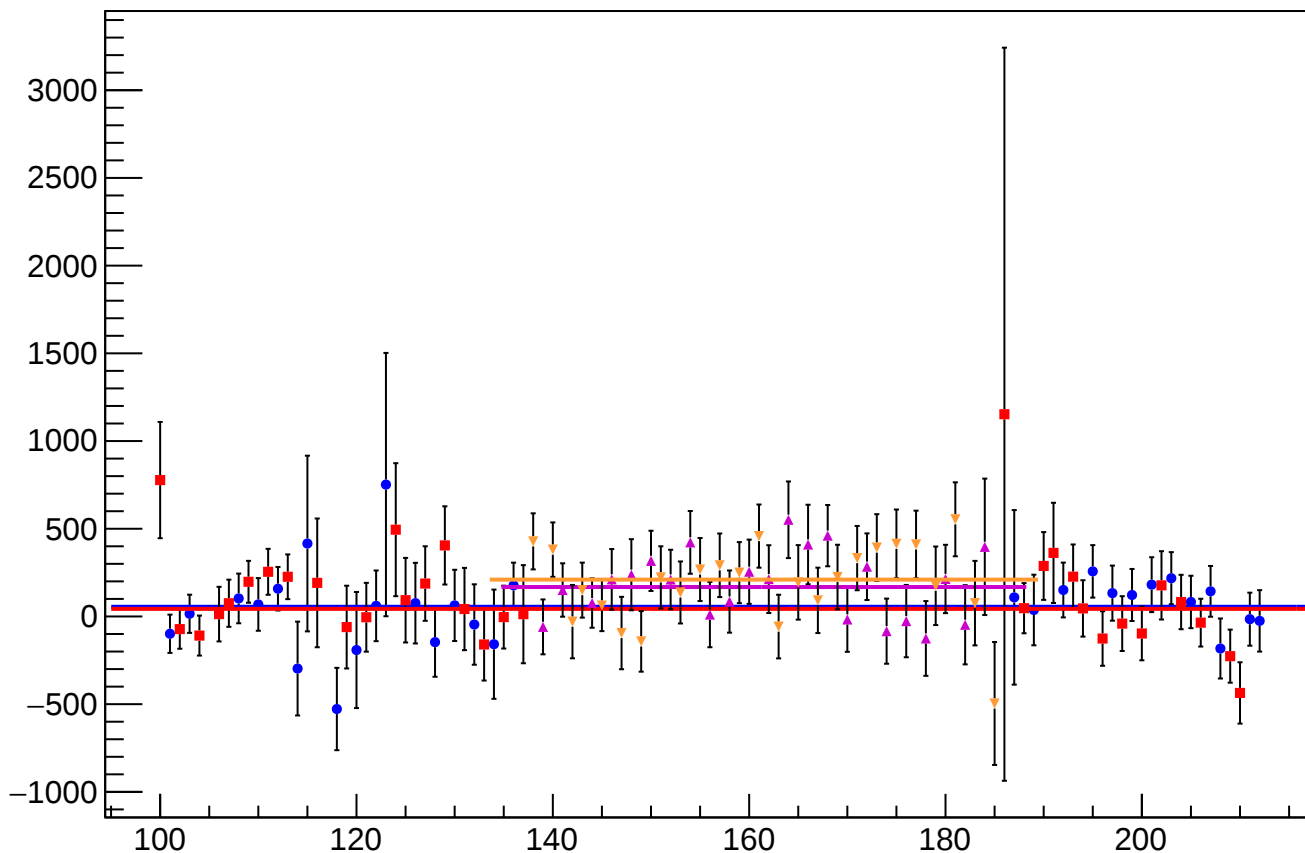
Right: 4412.156+/-0.732 χ^2/NDF : 1634914.1/33

In: 2252.180+/-0.326 χ^2/NDF : 5882224.1/39

Out: 2243.069+/-0.321 χ^2/NDF : 6936075.2/41

All: 2247.548+/-0.229 χ^2/NDF : 12818696.2/80

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 55.185+/-30.908 χ^2/NDF : 22.7/29

Left Out: 210.086+/-37.093 χ^2/NDF :27.5/24

Right Out: 43.242+/-29.668 χ^2/NDF : 38.2/32

Left In: 167.822+/-38.718 χ^2/NDF :21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

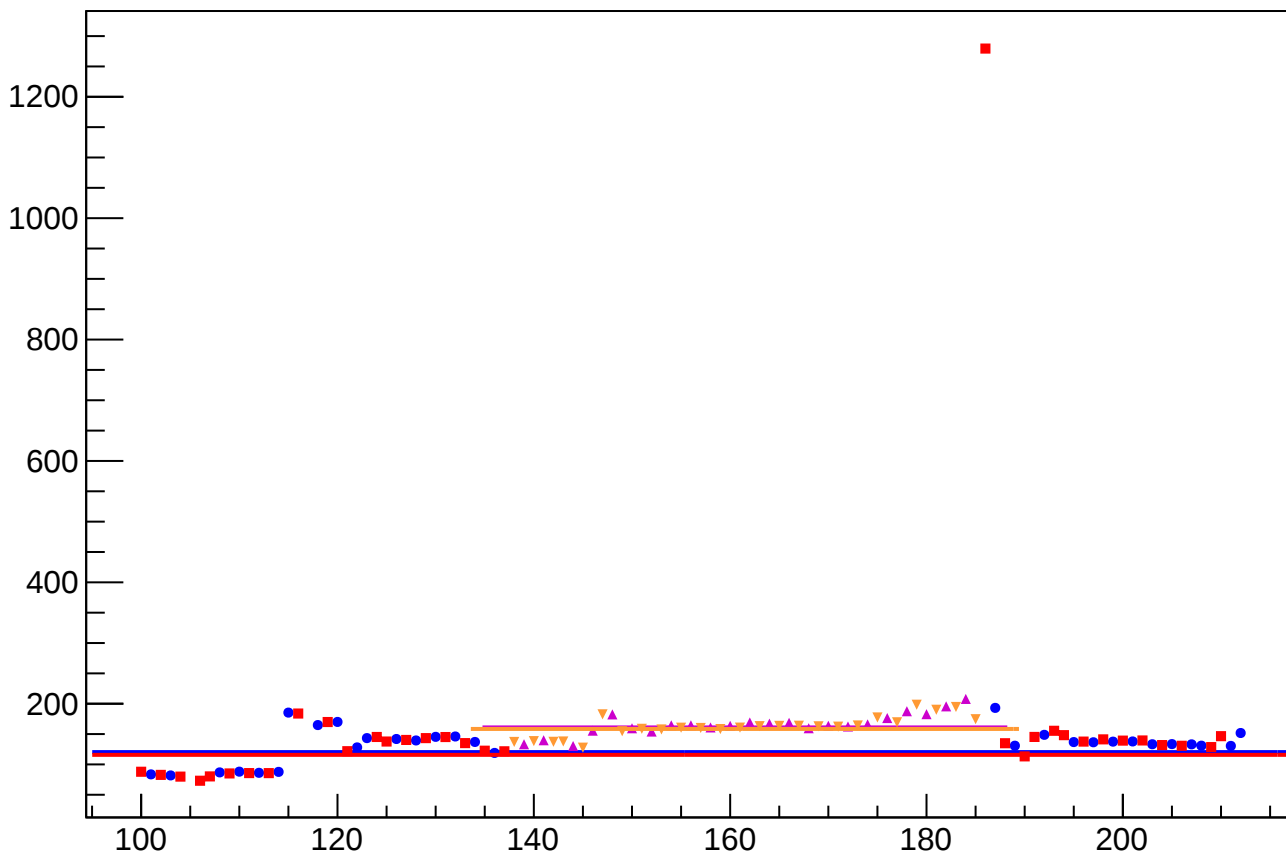
Right: 48.969+/-21.403 χ^2/NDF : 61.0/62

In: 99.026+/-24.155 χ^2/NDF :49.0/52

Out: 108.333+/-23.169 χ^2/NDF :78.1/57

All: 103.873+/-16.721 χ^2/NDF : 127.1/110

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 120.269+/-0.022 χ^2/NDF : 1455173.0/29

Left Out: 158.440+/-0.026 χ^2/NDF : 434300.9/24

Right Out: 115.760+/-0.021 χ^2/NDF : 2483082.2/32

Left In: 160.947+/-0.027 χ^2/NDF : 379713.4/22

Left: 159.640+/-0.019 χ^2/NDF : 818385.9/47

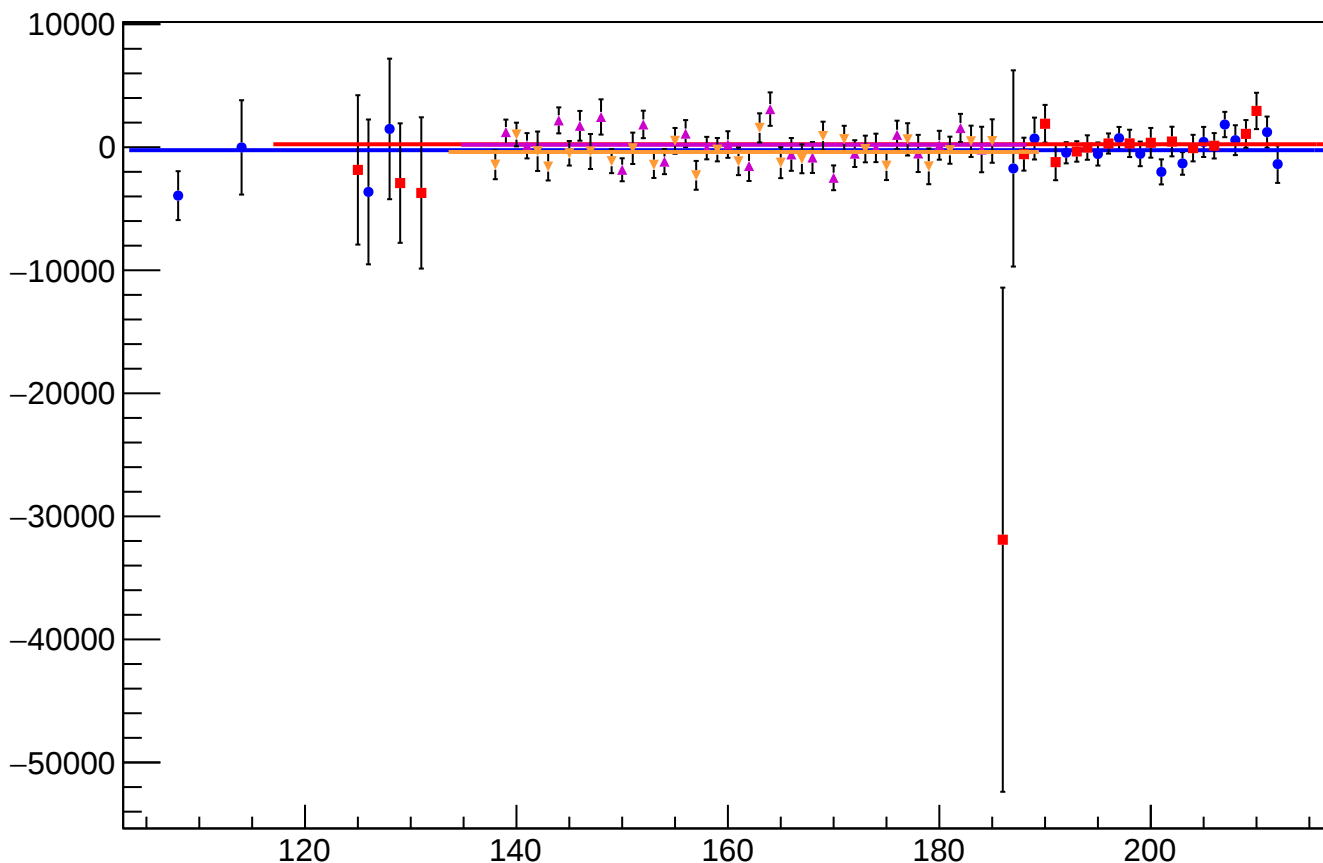
Right: 117.922+/-0.015 χ^2/NDF : 3960404.9/62

In: 136.102+/-0.017 χ^2/NDF : 3183278.2/52

Out: 132.411+/-0.016 χ^2/NDF : 4532190.5/57

All: 134.180+/-0.012 χ^2/NDF : 7739788.4/110

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -240.477+/-302.742 χ^2 /NDF: 16.7/16

Left Out: -385.018+/-231.833 χ^2 /NDF:18.1/24

Right Out: 241.664+/-305.340 χ^2 /NDF: 10.6/16

Left In: 202.234+/-237.460 χ^2 /NDF:35.5/22

Left: -98.432+/-165.884 χ^2 /NDF: 56.7/47

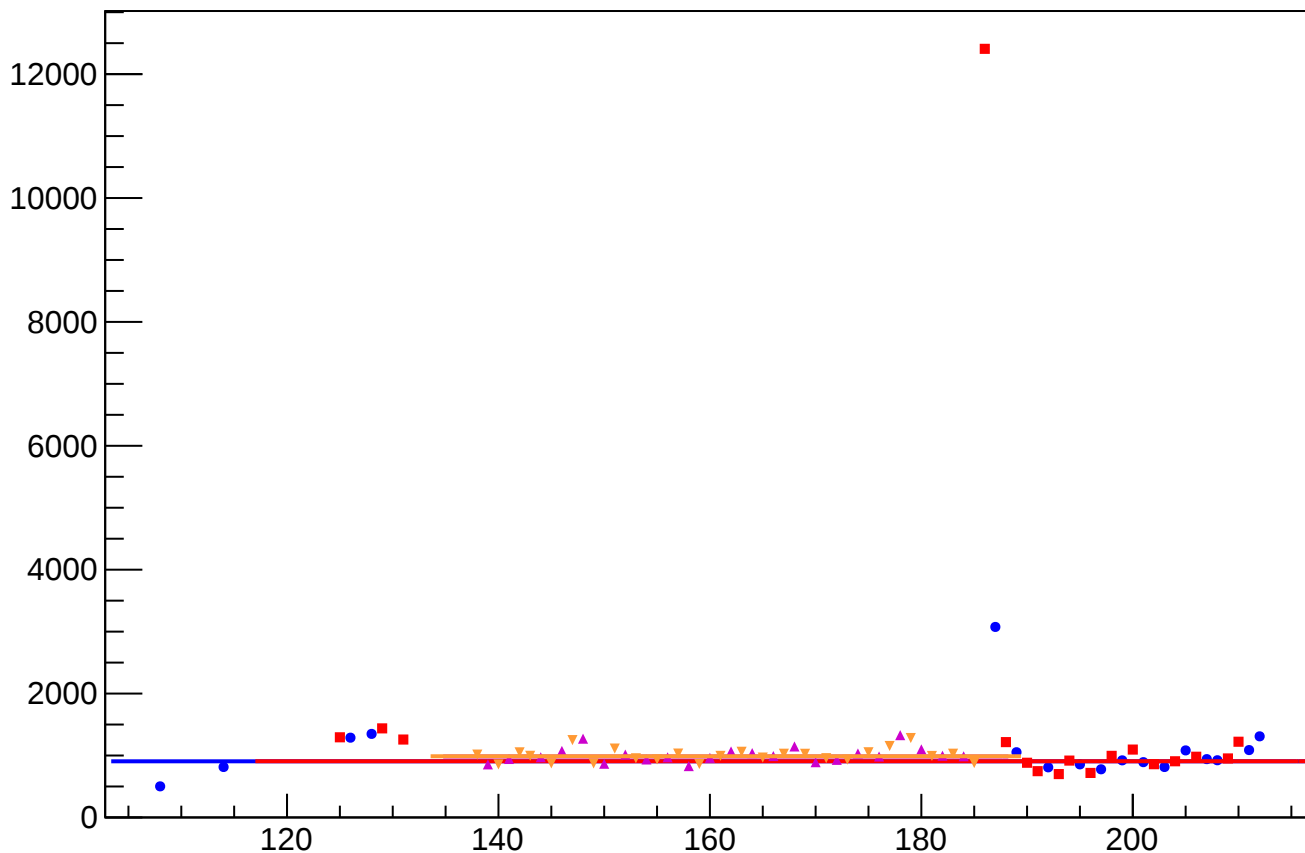
Right: -1.466+/-214.984 χ^2 /NDF: 28.6/33

In: 33.609+/-186.841 χ^2 /NDF:53.5/39

Out: -155.856+/-184.642 χ^2 /NDF:31.3/41

All: -62.245+/-131.332 χ^2 /NDF: 85.4/81

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 906.467+/-0.214 χ^2/NDF : 583725.9/16

Left Out: 987.869+/-0.164 χ^2/NDF :376958.5/24

Right Out: 907.639+/-0.216 χ^2/NDF : 1198399.7/16

Left In: 983.893+/-0.168 χ^2/NDF :416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

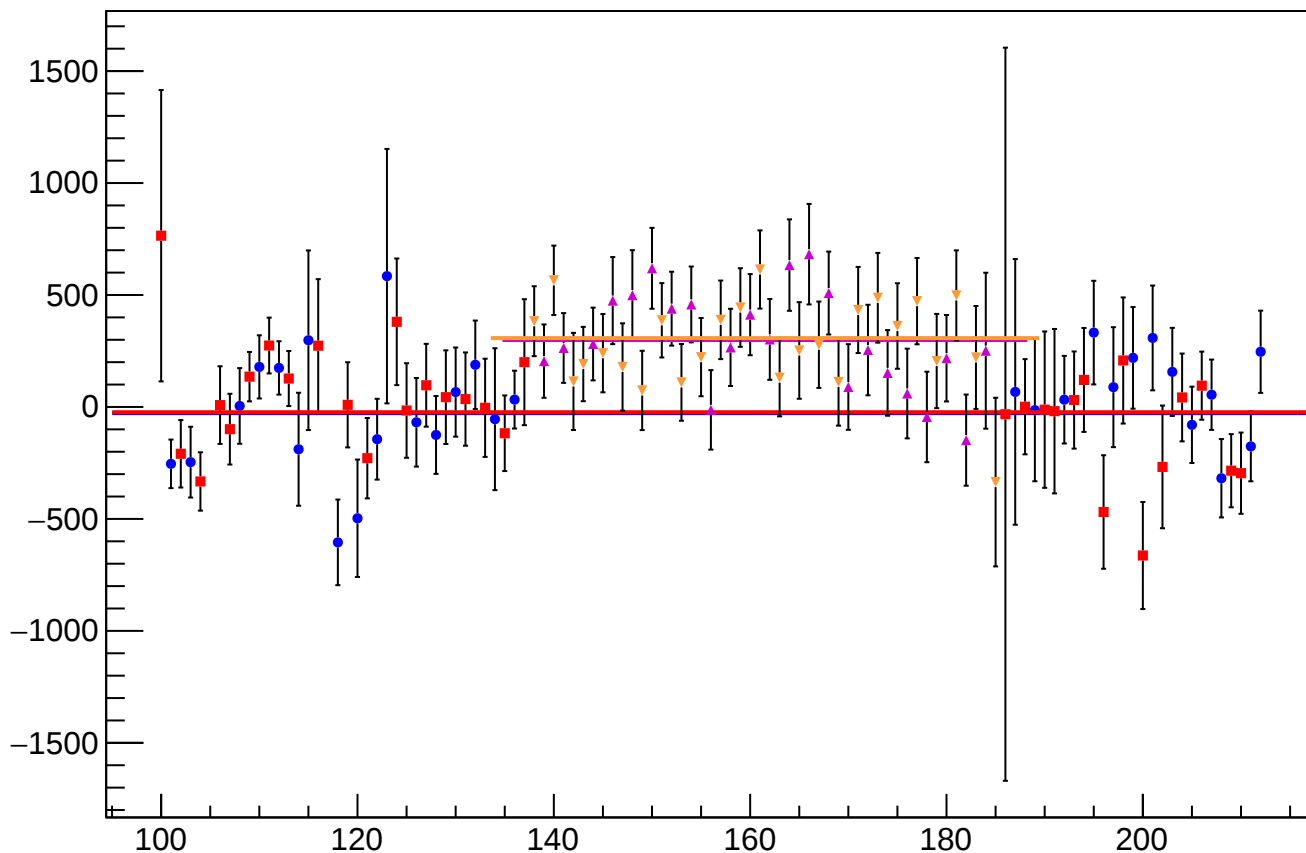
Right: 907.048+/-0.152 χ^2/NDF : 1782140.4/33

In: 954.402+/-0.132 χ^2/NDF :1080979.8/39

Out: 958.531+/-0.131 χ^2/NDF :1662945.5/41

All: 956.491+/-0.093 χ^2/NDF : 2744419.4/81

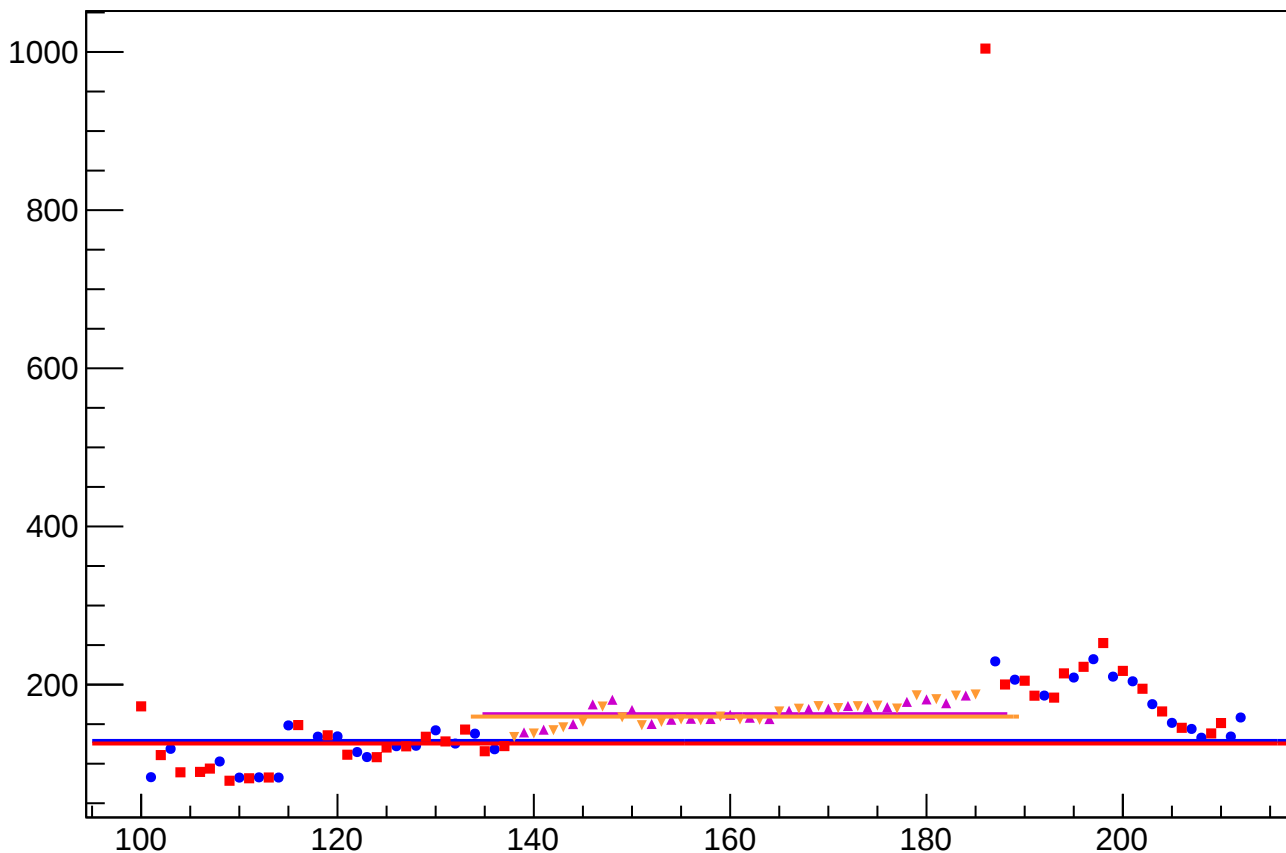
reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -27.629 ± 33.876 $\chi^2/\text{NDF}: 41.4/29$
 Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$
 Right Out: -23.499 ± 33.079 $\chi^2/\text{NDF}: 41.8/32$
 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: -25.515 ± 23.667 $\chi^2/\text{NDF}: 83.2/62$
 In: 112.878 ± 25.578 $\chi^2/\text{NDF}: 109.9/52$
 Out: 122.314 ± 24.742 $\chi^2/\text{NDF}: 106.6/57$
 All: 117.752 ± 17.783 $\chi^2/\text{NDF}: 216.6/110$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 128.774+/-0.024 χ^2/NDF : 2618744.6/29

Left Out: 159.568+/-0.026 χ^2/NDF :287744.2/24

Right Out: 125.535+/-0.023 χ^2/NDF : 3982944.4/32

Left In: 162.606+/-0.028 χ^2/NDF :199542.3/22

Left: 161.019+/-0.019 χ^2/NDF : 493626.9/47

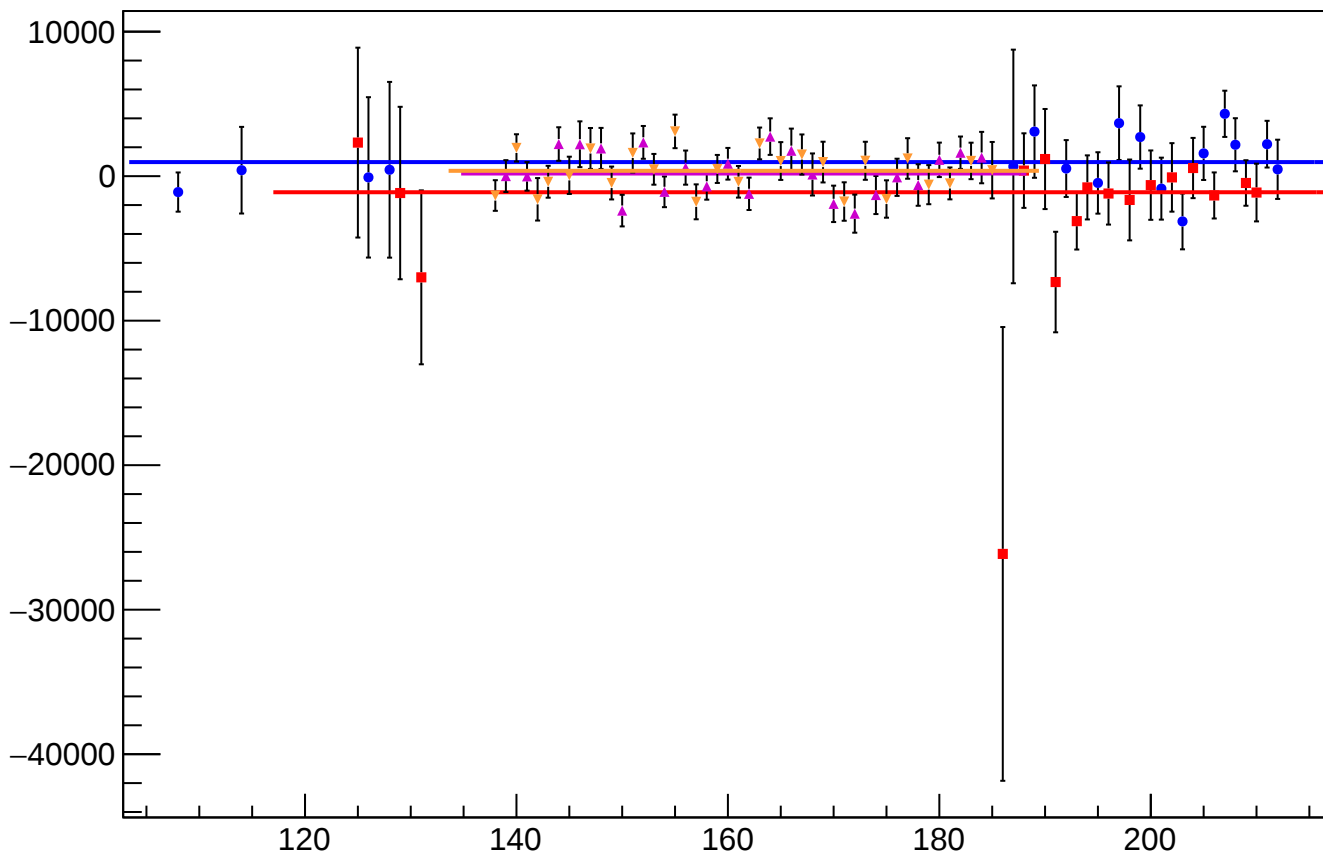
Right: 127.116+/-0.017 χ^2/NDF : 6611050.9/62

In: 143.319+/-0.018 χ^2/NDF :3675906.0/52

Out: 140.528+/-0.017 χ^2/NDF :5203330.8/57

All: 141.877+/-0.013 χ^2/NDF : 8891541.7/110

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 973.947 $\pm$ 515.831 χ^2/NDF : 15.9/16

Left Out: 370.001 $\pm$ 243.521 χ^2/NDF : 30.5/24

Right Out: -1112.821 $\pm$ 593.881 χ^2/NDF : 9.9/16

Left In: 183.107 $\pm$ 252.258 χ^2/NDF : 36.5/22

Left: 279.847 $\pm$ 175.203 χ^2/NDF : 67.2/47

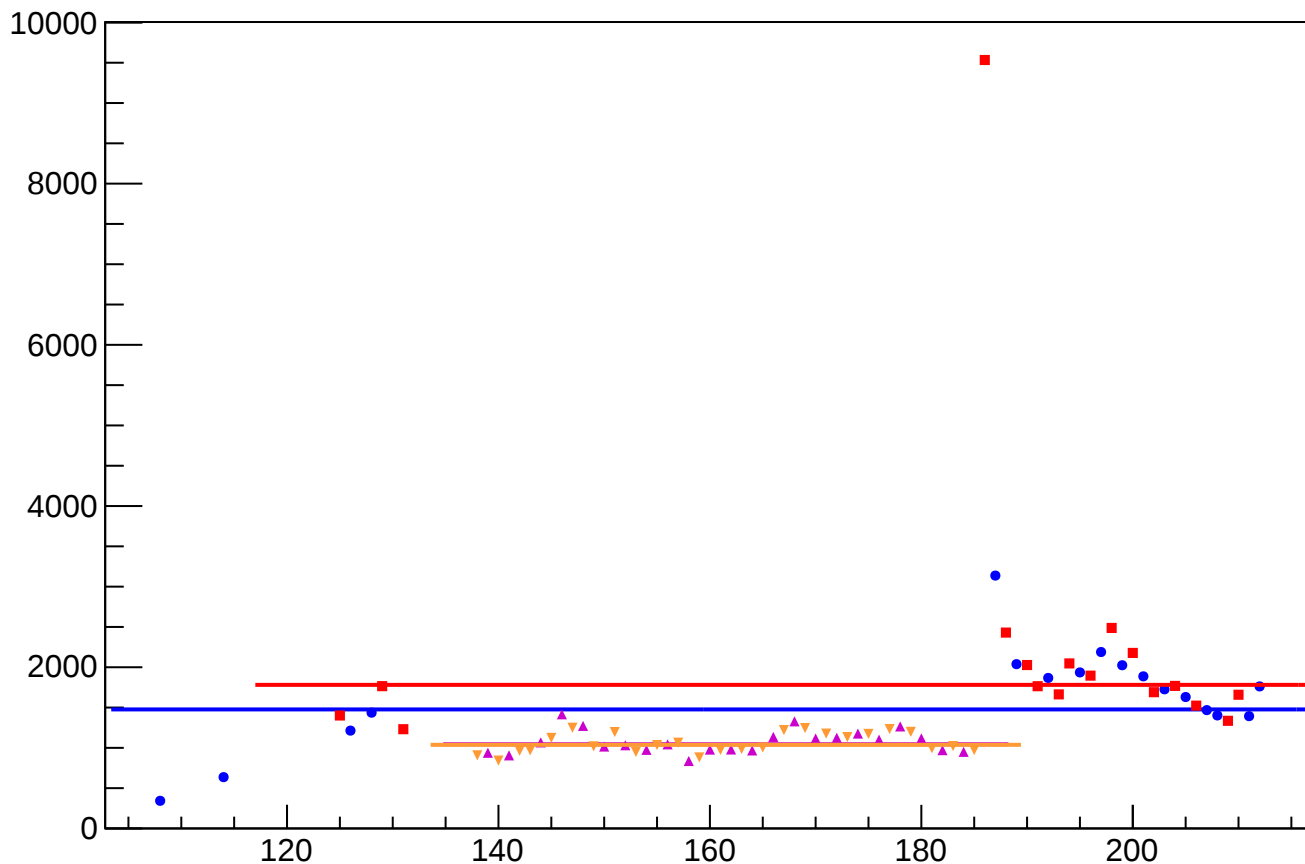
Right: 76.609 $\pm$ 389.440 χ^2/NDF : 32.8/33

In: 335.737 $\pm$ 226.612 χ^2/NDF : 54.3/39

Out: 156.565 $\pm$ 225.314 χ^2/NDF : 45.7/41

All: 245.636 $\pm$ 159.778 χ^2/NDF : 100.3/81

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1476.737+/-0.365 χ^2/NDF : 2326359.1/16

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1781.430+/-0.420 χ^2/NDF : 1094412.9/16

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

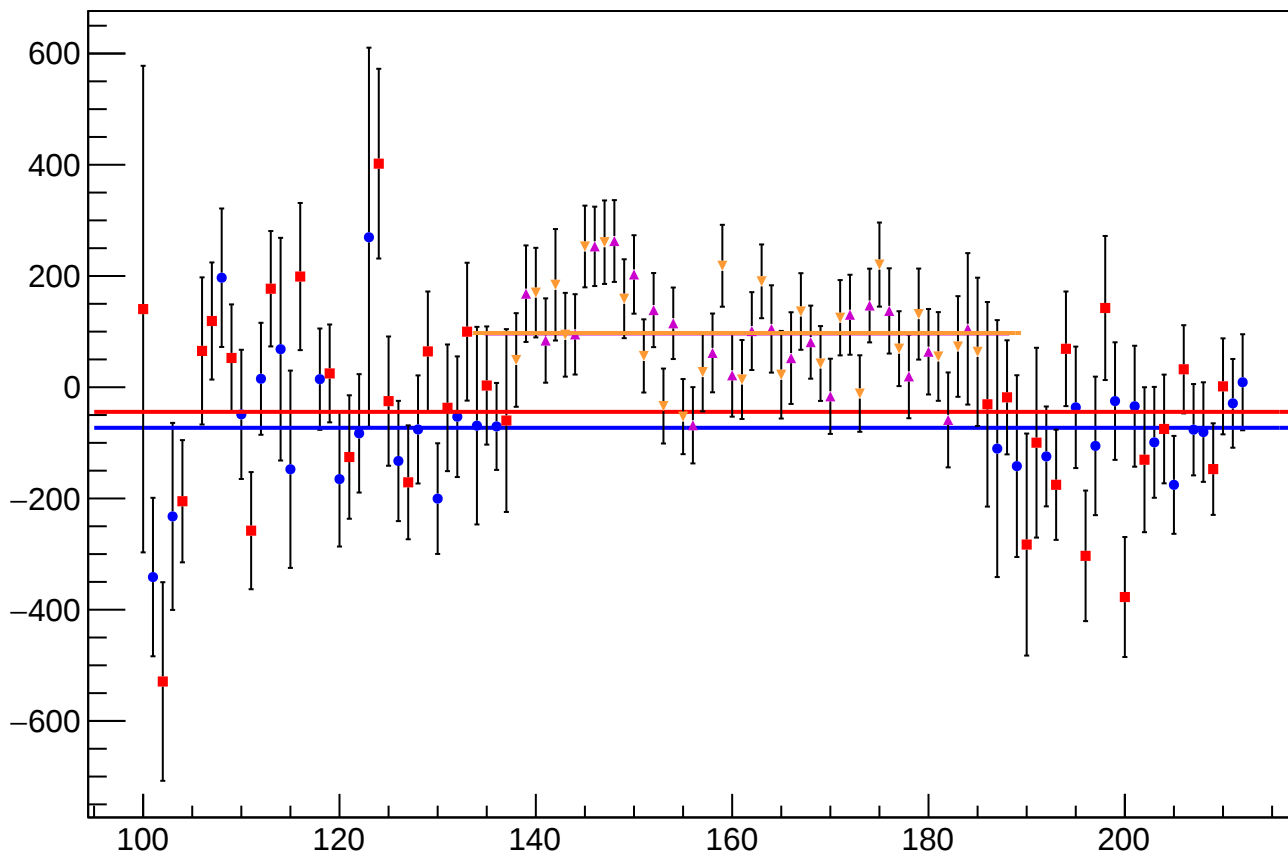
Right: 1607.759+/-0.275 χ^2/NDF : 3720840.6/33

In: 1128.119+/-0.160 χ^2/NDF : 4001657.4/39

Out: 1144.742+/-0.159 χ^2/NDF : 4274610.9/41

All: 1136.478+/-0.113 χ^2/NDF : 8281680.4/81

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -72.959±19.867 χ^2/NDF : 18.8/29

Left Out: 97.445±14.880 χ^2/NDF :36.0/24

Right Out: -44.275±19.666 χ^2/NDF : 62.3/32

Left In: 96.704±15.369 χ^2/NDF :29.2/22

Left: 97.087±10.690 χ^2/NDF : 65.2/47

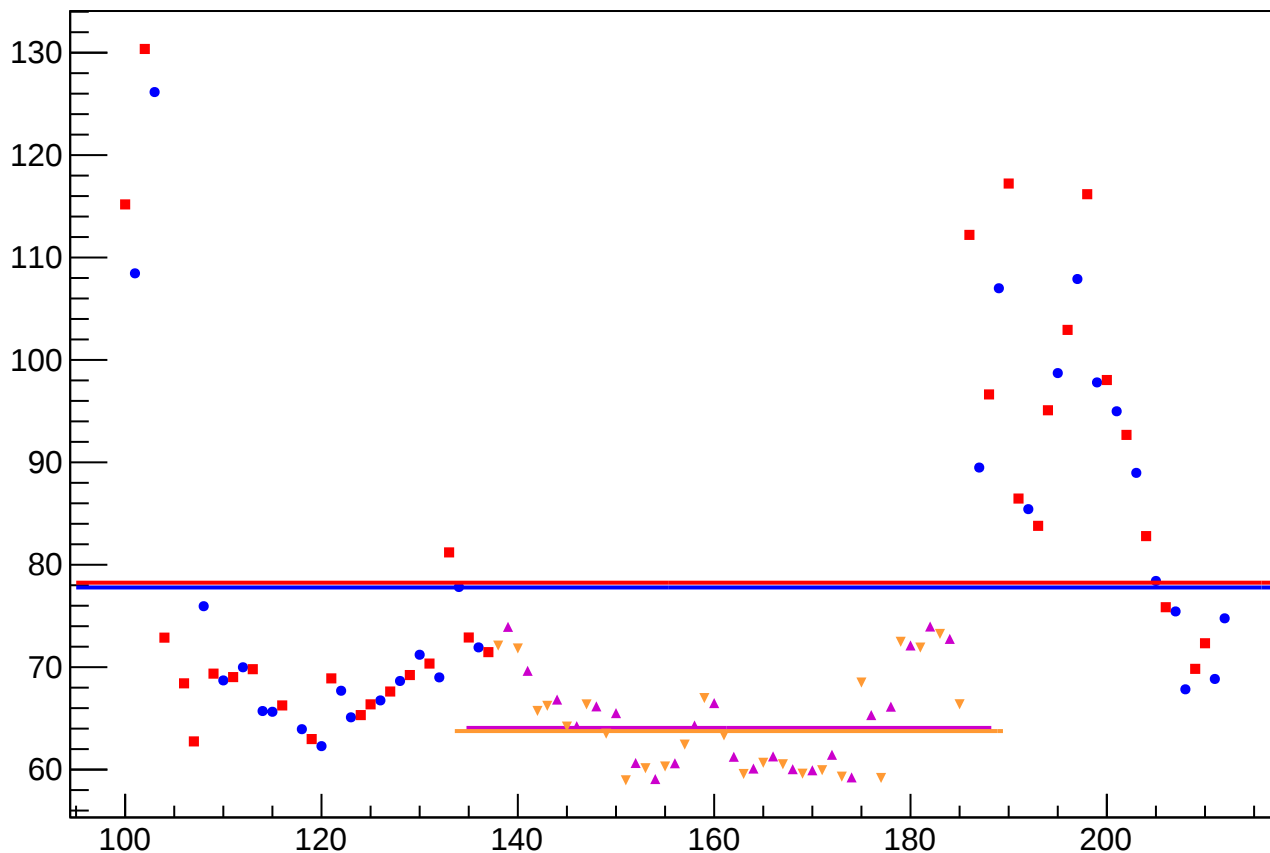
Right: -58.471±13.976 χ^2/NDF : 82.2/62

In: 33.182±12.156 χ^2/NDF :93.7/52

Out: 45.850±11.866 χ^2/NDF :131.4/57

All: 39.669±8.491 χ^2/NDF : 225.6/110

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.782 $\pm$ 0.014 χ^2 /NDF: 945513.0/29

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF:192803.8/24

Right Out: 78.251 $\pm$ 0.014 χ^2 /NDF: 1128630.8/32

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

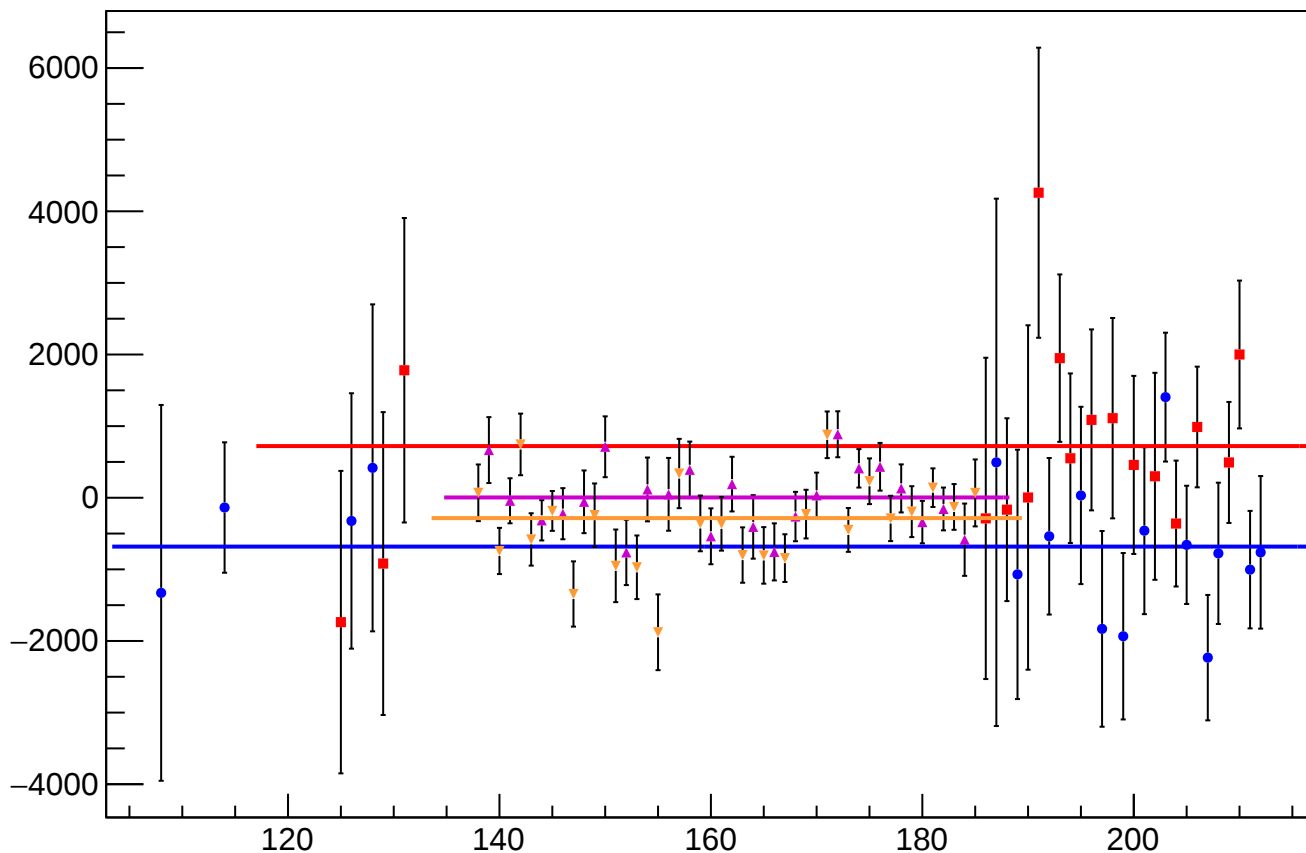
Right: 78.019 $\pm$ 0.010 χ^2 /NDF: 2074706.1/62

In: 69.203 $\pm$ 0.009 χ^2 /NDF:1706307.3/52

Out: 69.036 $\pm$ 0.008 χ^2 /NDF:2011874.7/57

All: 69.118 $\pm$ 0.006 χ^2 /NDF: 3718374.3/110

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -682.159 ± 275.611 χ^2/NDF : 11.8/16

Left Out: -284.304 ± 72.732 χ^2/NDF : 55.1/24

Right Out: 721.270 ± 306.440 χ^2/NDF : 10.7/16

Left In: 4.037 ± 75.084 χ^2/NDF : 32.4/22

Left: -144.720 ± 52.241 χ^2/NDF : 95.0/47

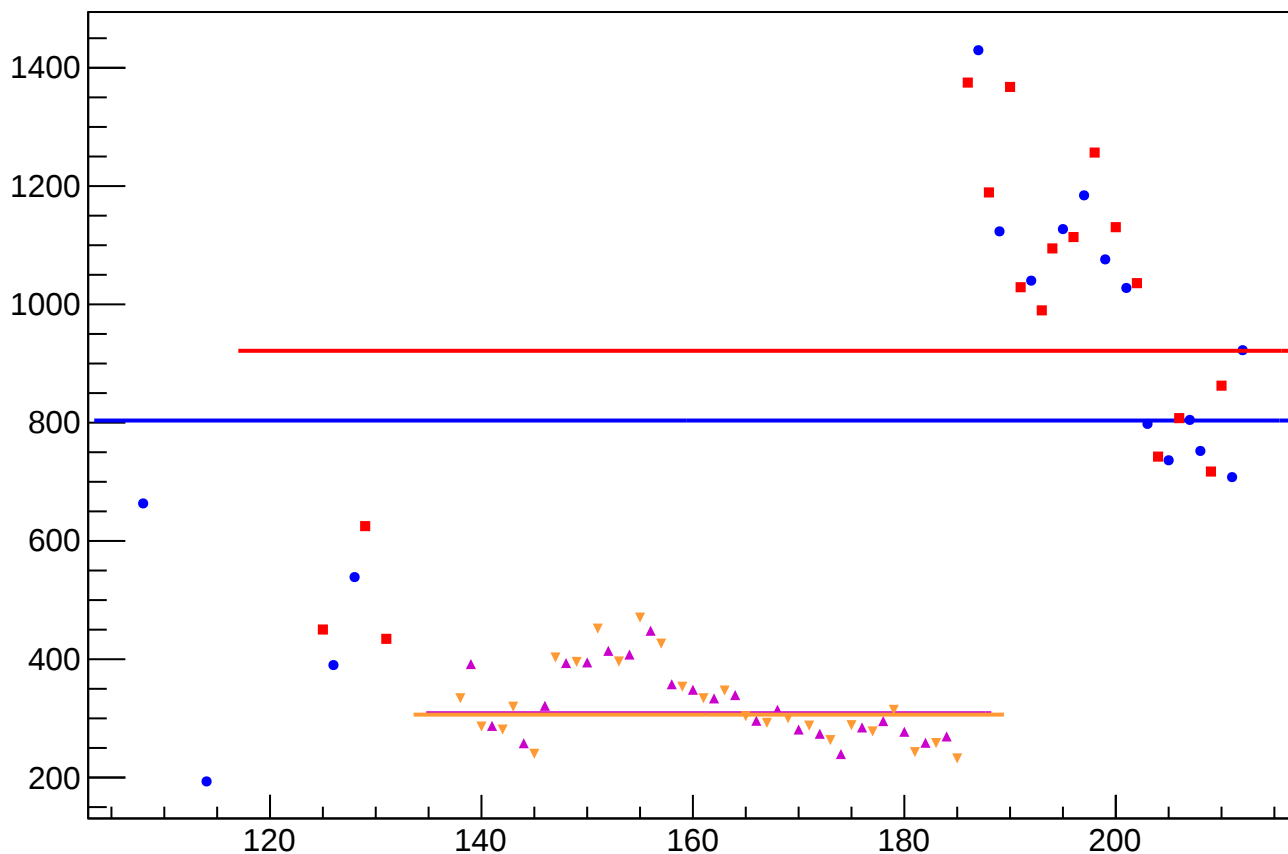
Right: -54.571 ± 204.921 χ^2/NDF : 34.1/33

In: -43.372 ± 72.444 χ^2/NDF : 49.9/39

Out: -230.677 ± 70.766 χ^2/NDF : 75.9/41

All: -139.219 ± 50.622 χ^2/NDF : 129.3/81

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 803.607 $\pm$ 0.195 χ^2/NDF : 1804177.4/16

Left Out: 306.363 $\pm$ 0.051 χ^2/NDF :1215669.9/24

Right Out: 921.501 $\pm$ 0.217 χ^2/NDF : 1010507.6/16

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

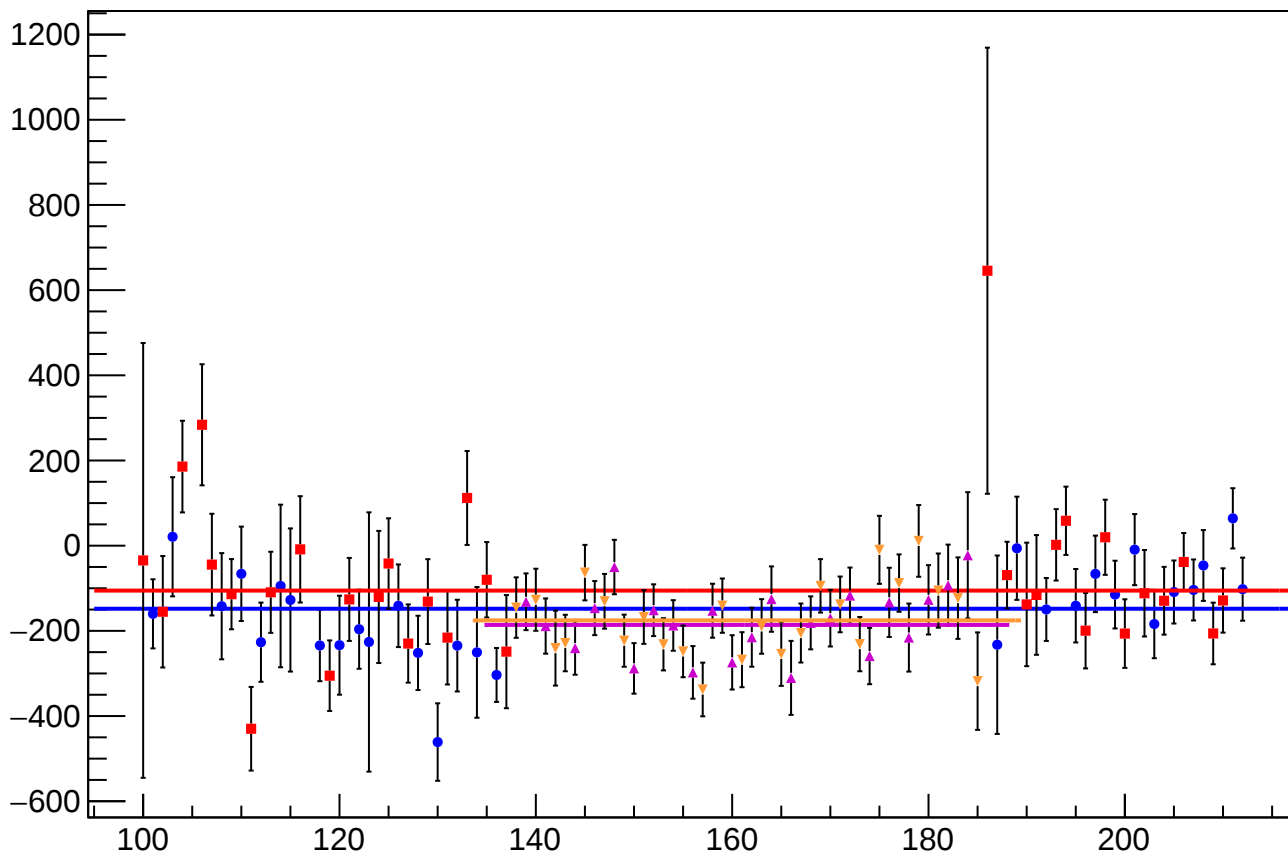
Right: 856.327 $\pm$ 0.145 χ^2/NDF : 2978331.1/33

In: 342.918 $\pm$ 0.051 χ^2/NDF :8809807.5/39

Out: 339.168 $\pm$ 0.050 χ^2/NDF :9855464.9/41

All: 340.999 $\pm$ 0.036 χ^2/NDF : 18668014.8/83

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -148.065 ± 16.899 $\chi^2/\text{NDF}: 42.2/29$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -105.445 ± 17.015 $\chi^2/\text{NDF}: 57.0/32$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

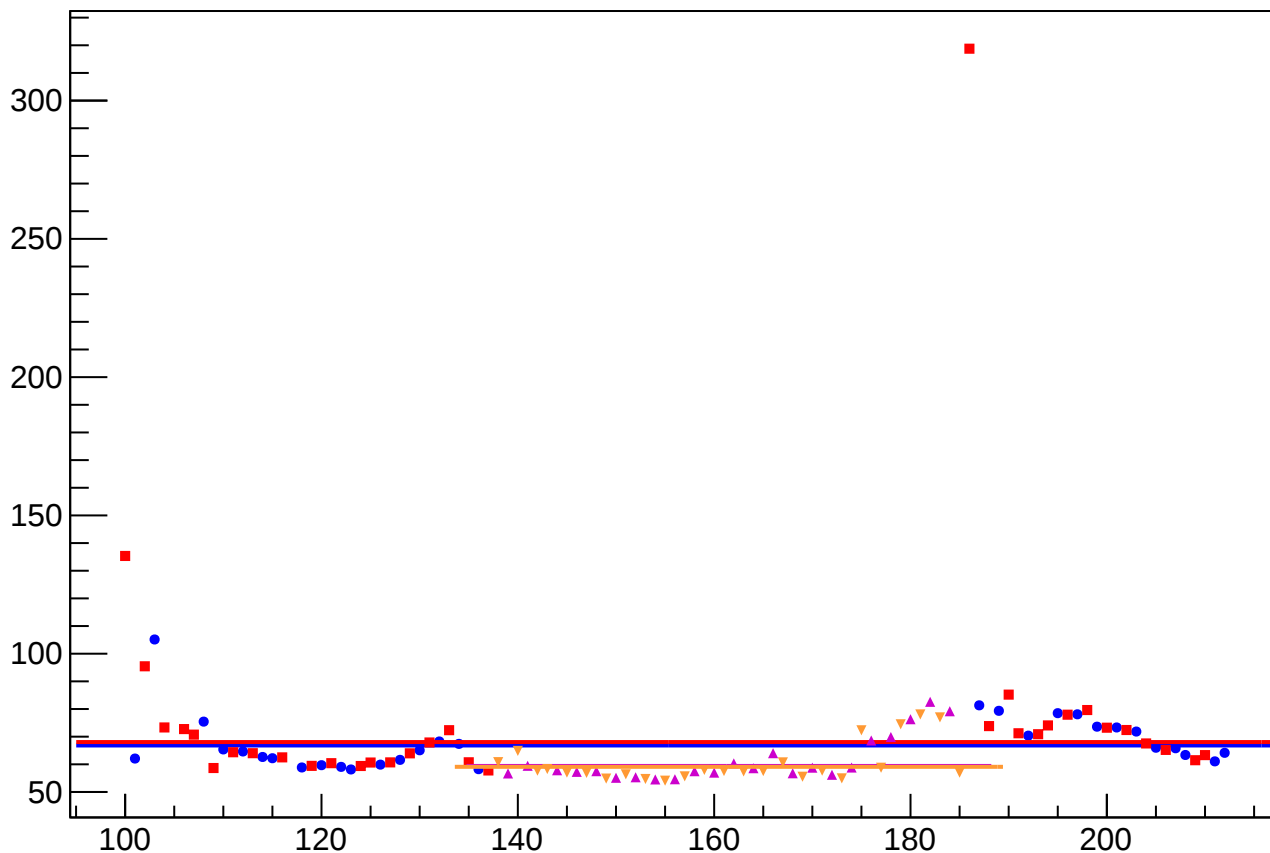
Right: -126.901 ± 11.990 $\chi^2/\text{NDF}: 102.4/62$

In: -170.179 ± 10.923 $\chi^2/\text{NDF}: 68.7/52$

Out: -147.574 ± 10.739 $\chi^2/\text{NDF}: 101.8/57$

All: -158.684 ± 7.658 $\chi^2/\text{NDF}: 172.7/110$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 66.814 $\pm$ 0.012 χ^2 /NDF: 424810.7/29

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.052 $\pm$ 0.012 χ^2 /NDF: 872374.2/32

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

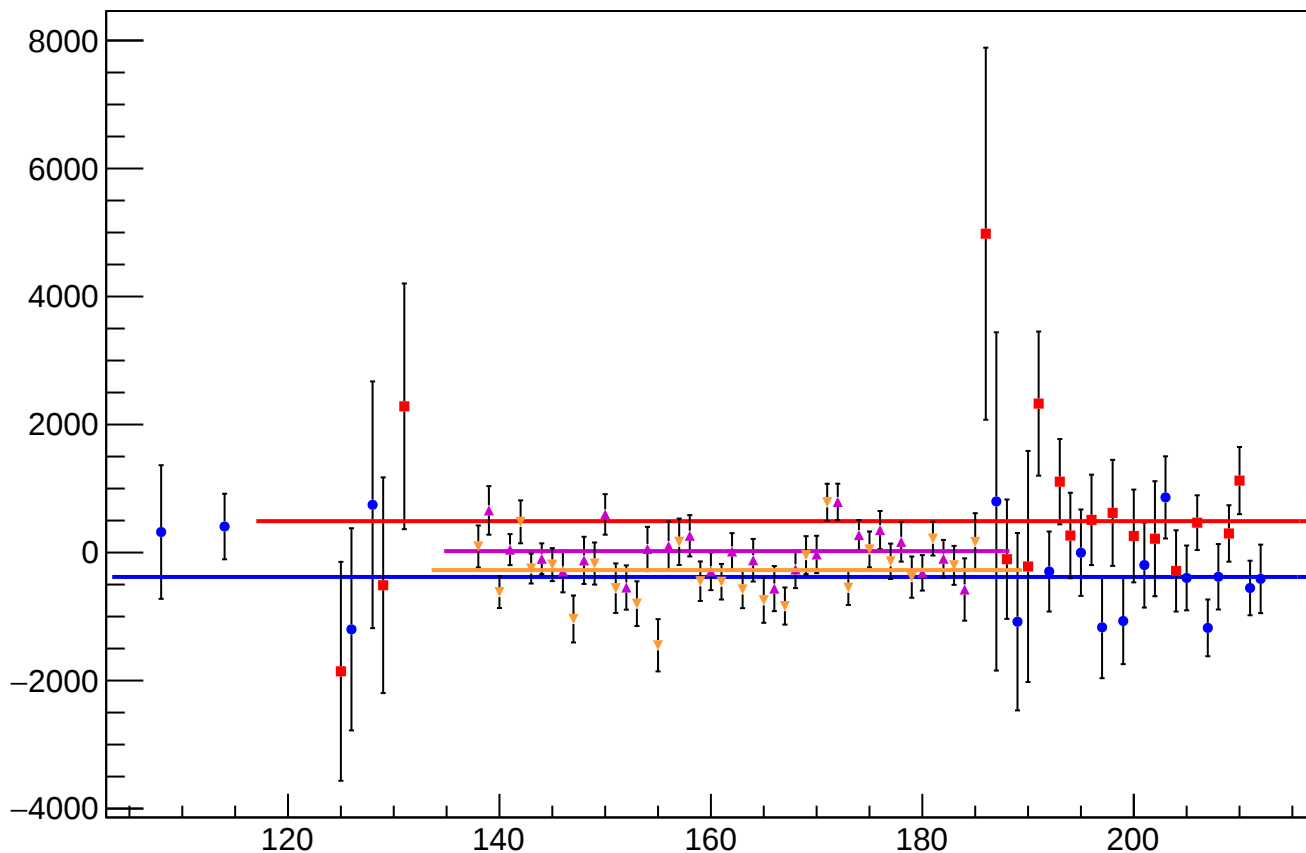
Right: 67.429 $\pm$ 0.008 χ^2 /NDF: 1302518.1/62

In: 62.503 $\pm$ 0.008 χ^2 /NDF: 1021361.1/52

Out: 62.666 $\pm$ 0.008 χ^2 /NDF: 1575309.0/57

All: 62.586 $\pm$ 0.005 χ^2 /NDF: 2596895.3/110

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -381.189 ± 155.990 $\chi^2/\text{NDF}: 13.5/16$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 490.622 ± 179.163 $\chi^2/\text{NDF}: 13.1/16$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

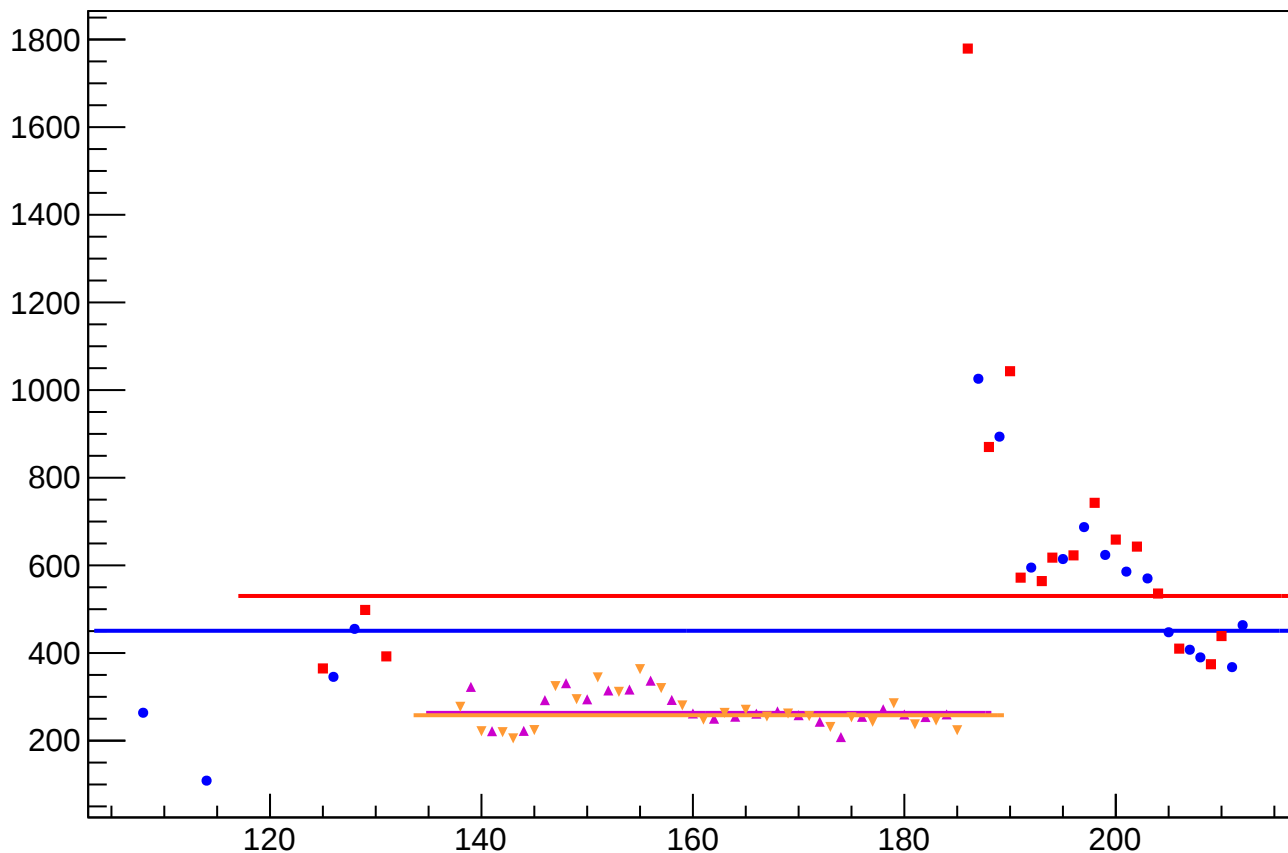
Right: -5.274 ± 117.647 $\chi^2/\text{NDF}: 40.0/33$

In: -34.996 ± 58.927 $\chi^2/\text{NDF}: 48.1/39$

Out: -195.121 ± 57.574 $\chi^2/\text{NDF}: 83.3/41$

All: -116.918 ± 41.181 $\chi^2/\text{NDF}: 135.2/81$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 450.744 $\pm$ 0.110 χ^2 /NDF: 2072422.7/16

Left Out: 258.040 $\pm$ 0.043 χ^2 /NDF: 724823.3/24

Right Out: 530.187 $\pm$ 0.127 χ^2 /NDF: 1597894.9/16

Left In: 263.397 $\pm$ 0.045 χ^2 /NDF: 585600.2/22

Left: 260.596 $\pm$ 0.031 χ^2 /NDF: 1317830.8/47

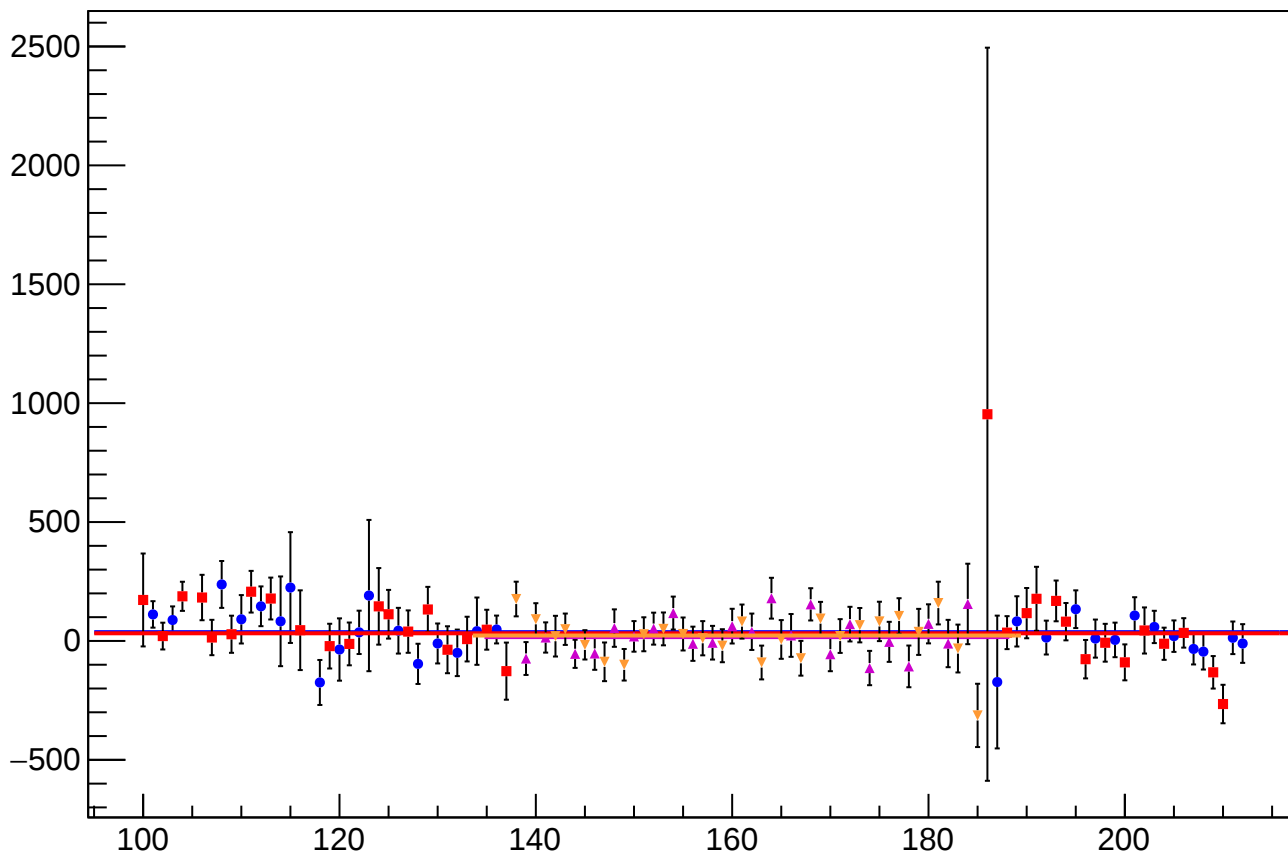
Right: 484.999 $\pm$ 0.083 χ^2 /NDF: 3893992.4/33

In: 290.132 $\pm$ 0.042 χ^2 /NDF: 5131216.3/39

Out: 286.144 $\pm$ 0.041 χ^2 /NDF: 6460836.2/41

All: 288.092 $\pm$ 0.029 χ^2 /NDF: 11596738.7/83

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 37.033 $\pm$ 15.168 χ^2 /NDF: 25.1/29

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 32.199 $\pm$ 14.937 χ^2 /NDF: 50.9/32

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

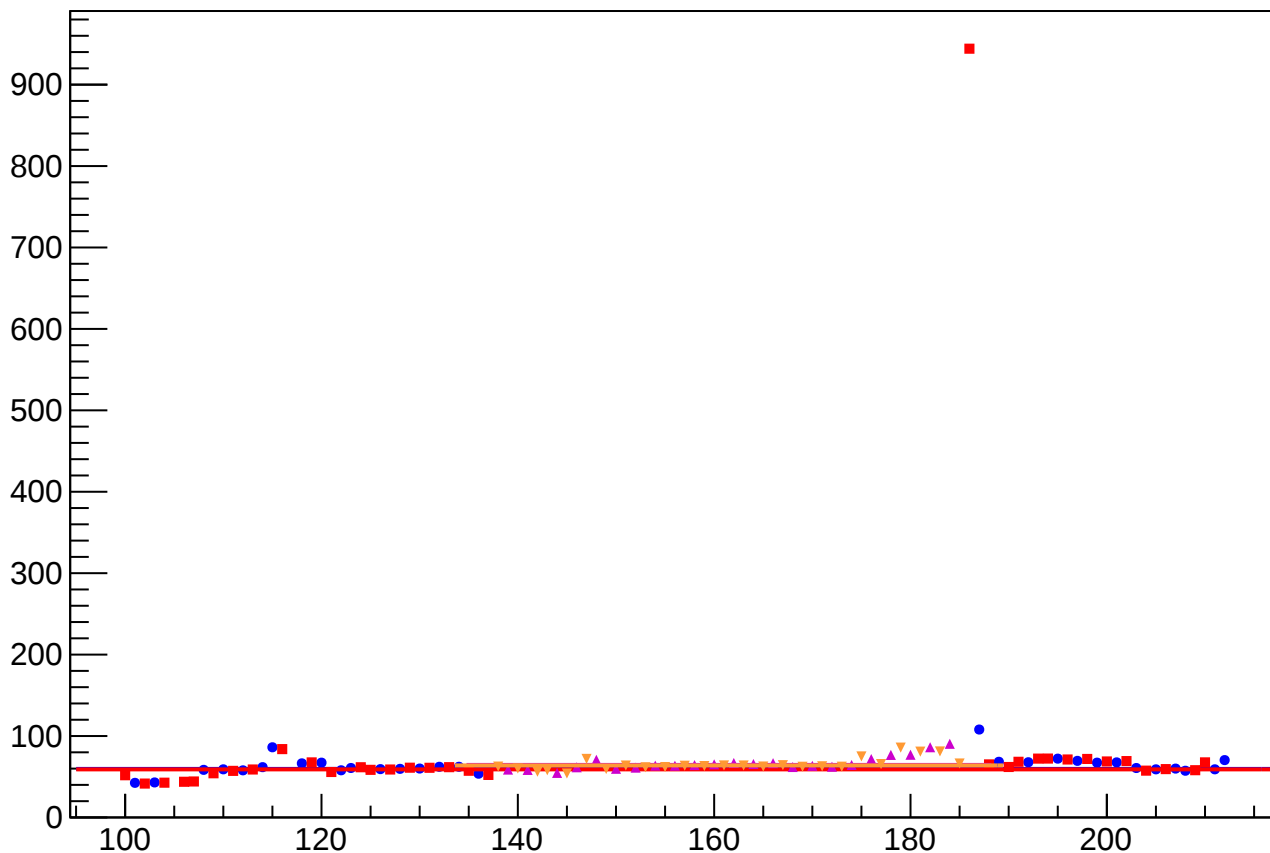
Right: 34.579 $\pm$ 10.643 χ^2 /NDF: 76.0/62

In: 26.862 $\pm$ 10.851 χ^2 /NDF:49.3/52

Out: 27.544 $\pm$ 10.573 χ^2 /NDF:80.1/57

All: 27.212 $\pm$ 7.573 χ^2 /NDF: 129.4/110

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.616 $\pm$ 0.011 χ^2 /NDF: 689090.6/29

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 59.036 $\pm$ 0.011 χ^2 /NDF: 1517728.4/32

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

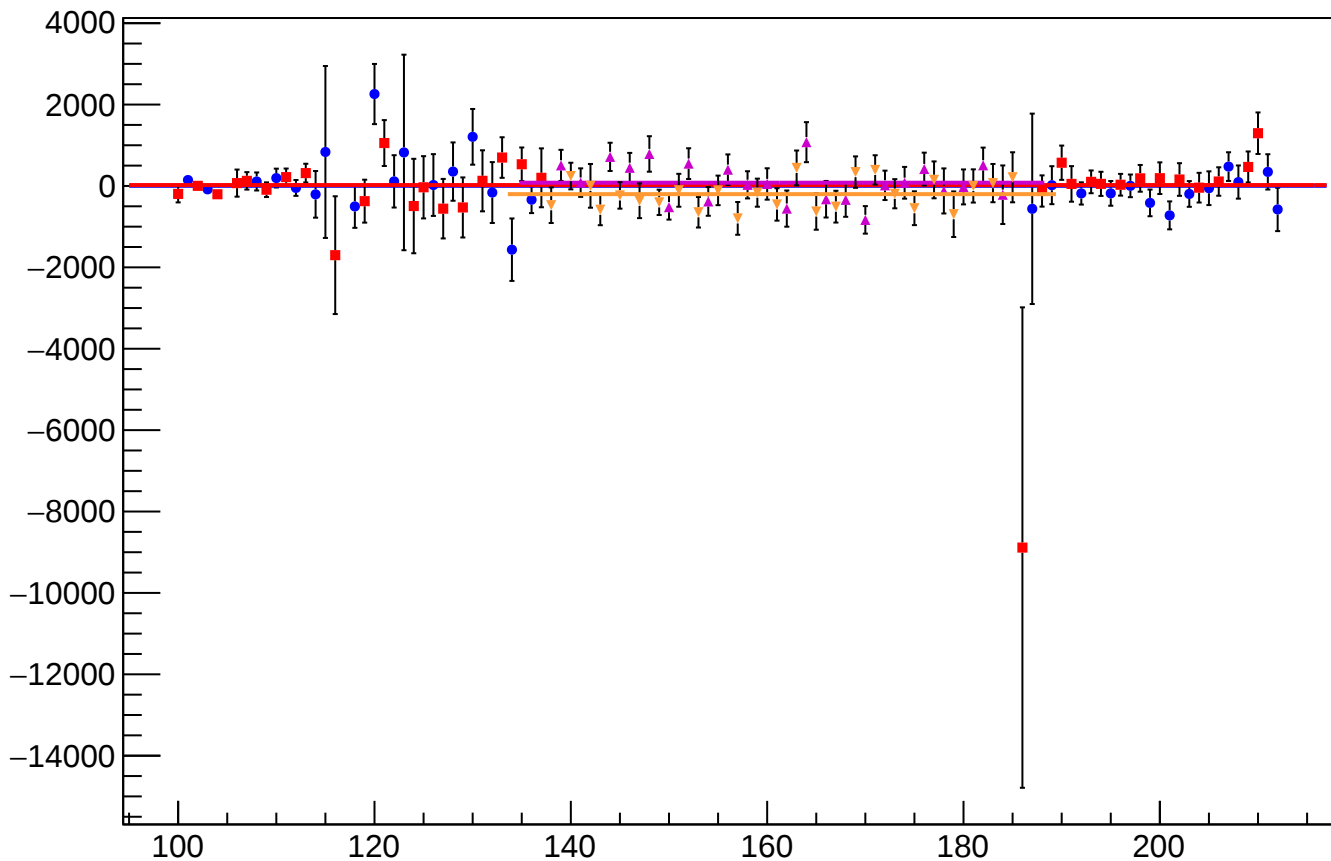
Right: 59.322 $\pm$ 0.008 χ^2 /NDF: 2208304.6/62

In: 62.006 $\pm$ 0.008 χ^2 /NDF: 1161267.6/52

Out: 61.473 $\pm$ 0.007 χ^2 /NDF: 2019811.7/57

All: 61.732 $\pm$ 0.005 χ^2 /NDF: 3183551.3/110

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 4.647 ± 45.905 $\chi^2/\text{NDF}: 35.4/29$

Left Out: -201.082 ± 79.549 $\chi^2/\text{NDF}: 19.7/24$

Right Out: 21.686 ± 46.802 $\chi^2/\text{NDF}: 31.9/32$

Left In: 79.985 ± 81.781 $\chi^2/\text{NDF}: 33.4/22$

Left: -64.438 ± 57.022 $\chi^2/\text{NDF}: 59.1/47$

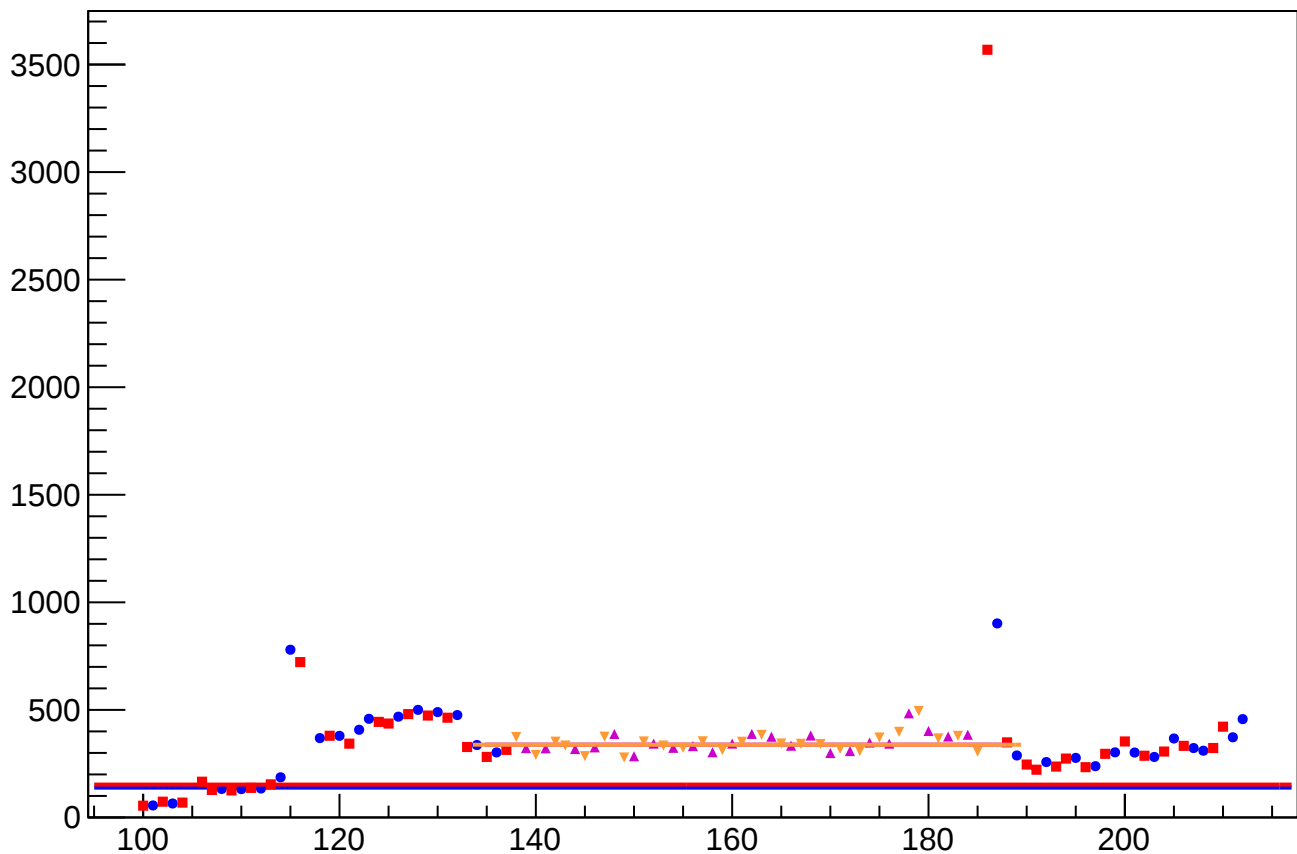
Right: 13.001 ± 32.772 $\chi^2/\text{NDF}: 67.4/62$

In: 22.697 ± 40.030 $\chi^2/\text{NDF}: 69.4/52$

Out: -35.598 ± 40.339 $\chi^2/\text{NDF}: 57.4/57$

All: -6.226 ± 28.414 $\chi^2/\text{NDF}: 127.9/110$

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 138.736 $\pm$ 0.032 χ^2 /NDF: 12740557.9/29

Left Out: 338.130 $\pm$ 0.056 χ^2 /NDF: 498601.7/24

Right Out: 152.865 $\pm$ 0.033 χ^2 /NDF: 11169046.3/32

Left In: 338.564 $\pm$ 0.058 χ^2 /NDF: 437243.0/22

Left: 338.341 $\pm$ 0.040 χ^2 /NDF: 935873.7/47

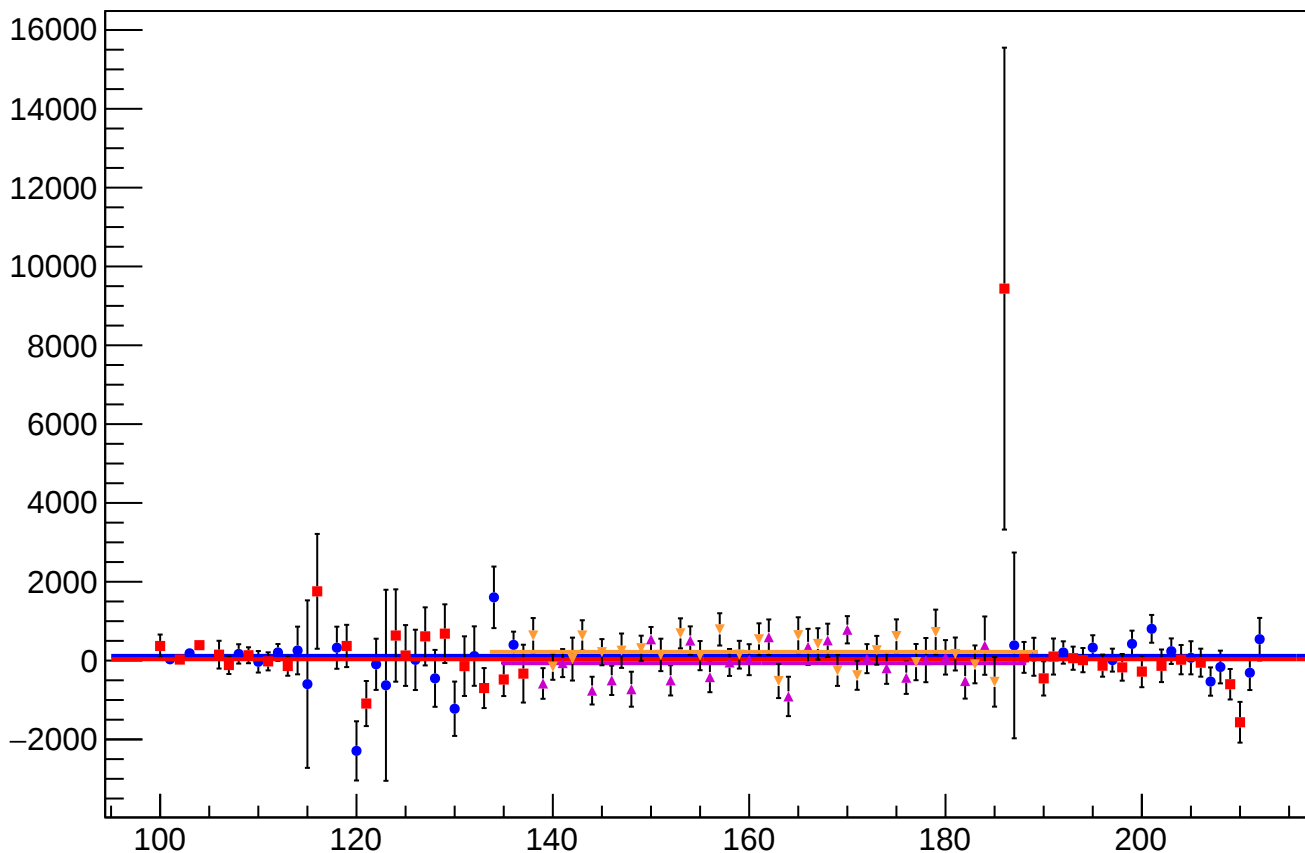
Right: 145.664 $\pm$ 0.023 χ^2 /NDF: 24002494.1/62

In: 186.613 $\pm$ 0.028 χ^2 /NDF: 22257771.2/52

Out: 200.504 $\pm$ 0.029 χ^2 /NDF: 19726187.1/57

All: 193.505 $\pm$ 0.020 χ^2 /NDF: 42103466.2/111

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 119.481+/-53.947 χ^2/NDF : 31.8/29

Left Out: 221.083+/-81.018 χ^2/NDF :19.7/24

Right Out: 33.783+/-52.136 χ^2/NDF : 40.1/32

Left In: -65.510+/-83.319 χ^2/NDF :34.0/22

Left: 81.798+/-58.085 χ^2/NDF : 59.7/47

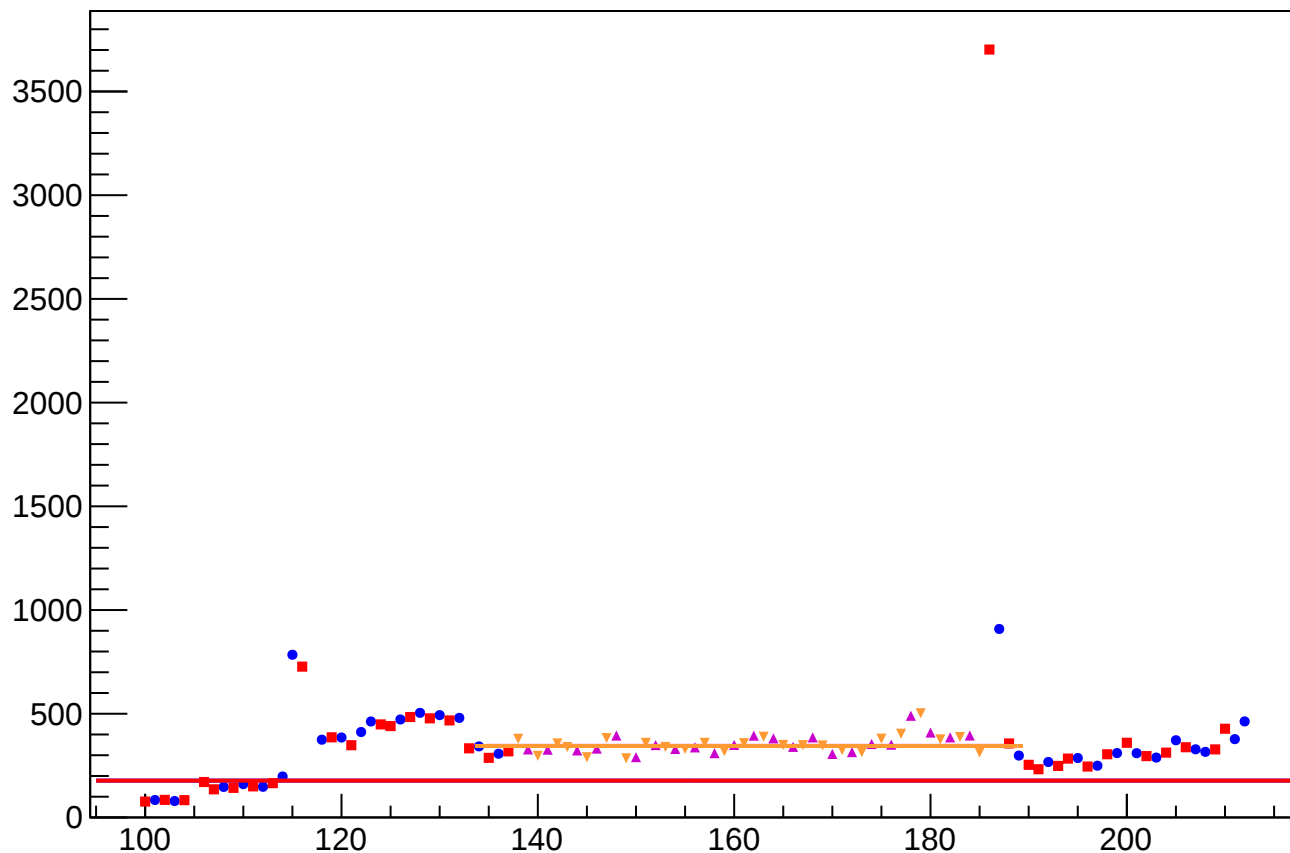
Right: 75.169+/-37.490 χ^2/NDF : 73.2/62

In: 64.836+/-45.284 χ^2/NDF :69.3/52

Out: 88.632+/-43.843 χ^2/NDF :63.6/57

All: 77.119+/-31.499 χ^2/NDF : 133.0/110

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 177.700+/-0.038 χ^2/NDF : 9612316.0/29

Left Out: 344.506+/-0.057 χ^2/NDF : 488323.4/24

Right Out: 177.536+/-0.037 χ^2/NDF : 9362204.5/32

Left In: 345.039+/-0.059 χ^2/NDF : 427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

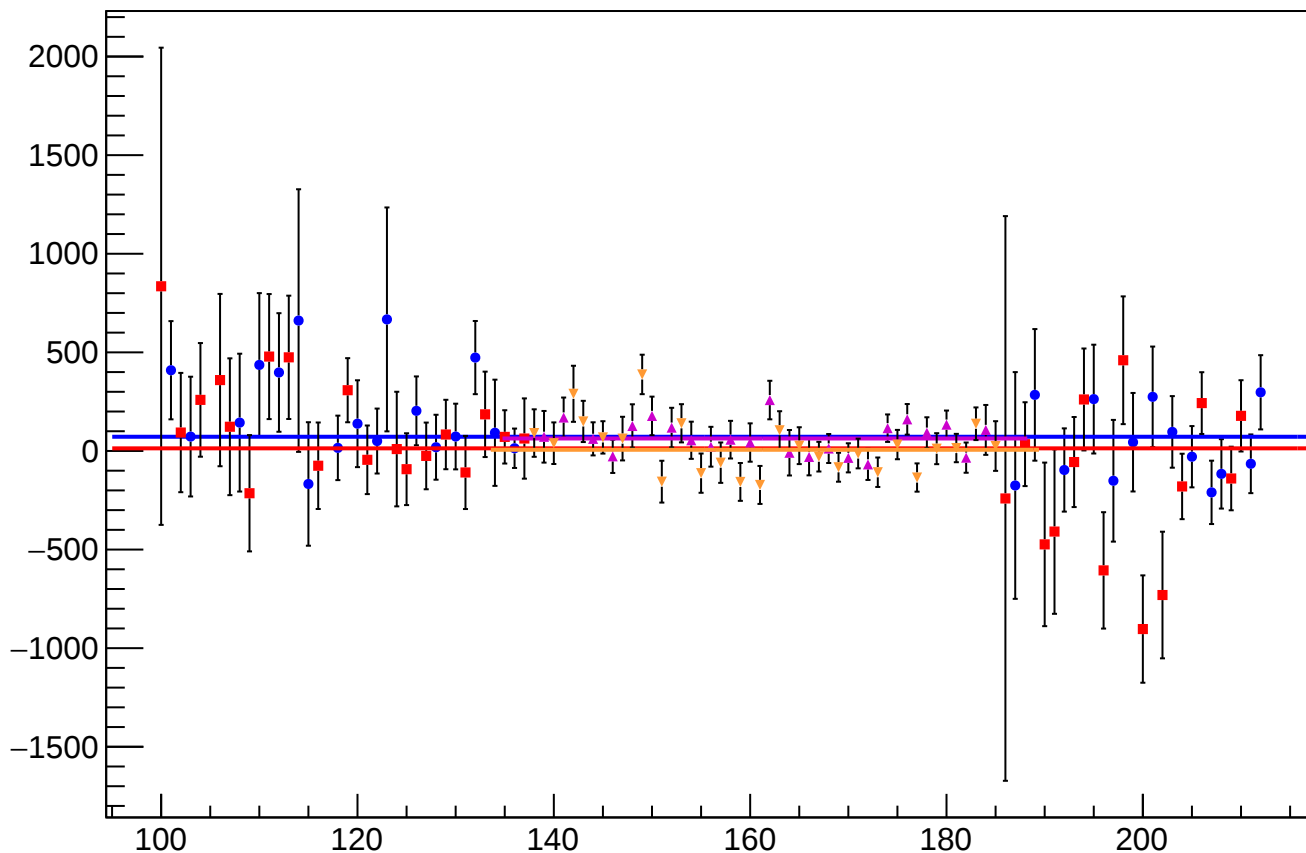
Right: 177.615+/-0.027 χ^2/NDF : 18974530.1/62

In: 227.130+/-0.032 χ^2/NDF : 15724143.1/52

Out: 226.431+/-0.031 χ^2/NDF : 15857541.9/57

All: 226.769+/-0.022 χ^2/NDF : 31581931.2/111

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 72.049 $\pm$ 37.300 χ^2 /NDF: 22.3/29

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 13.261 $\pm$ 38.986 χ^2 /NDF: 44.0/32

Left In: 63.279 $\pm$ 18.447 χ^2 /NDF:19.8/22

Left: 33.804 $\pm$ 12.850 χ^2 /NDF: 70.8/47

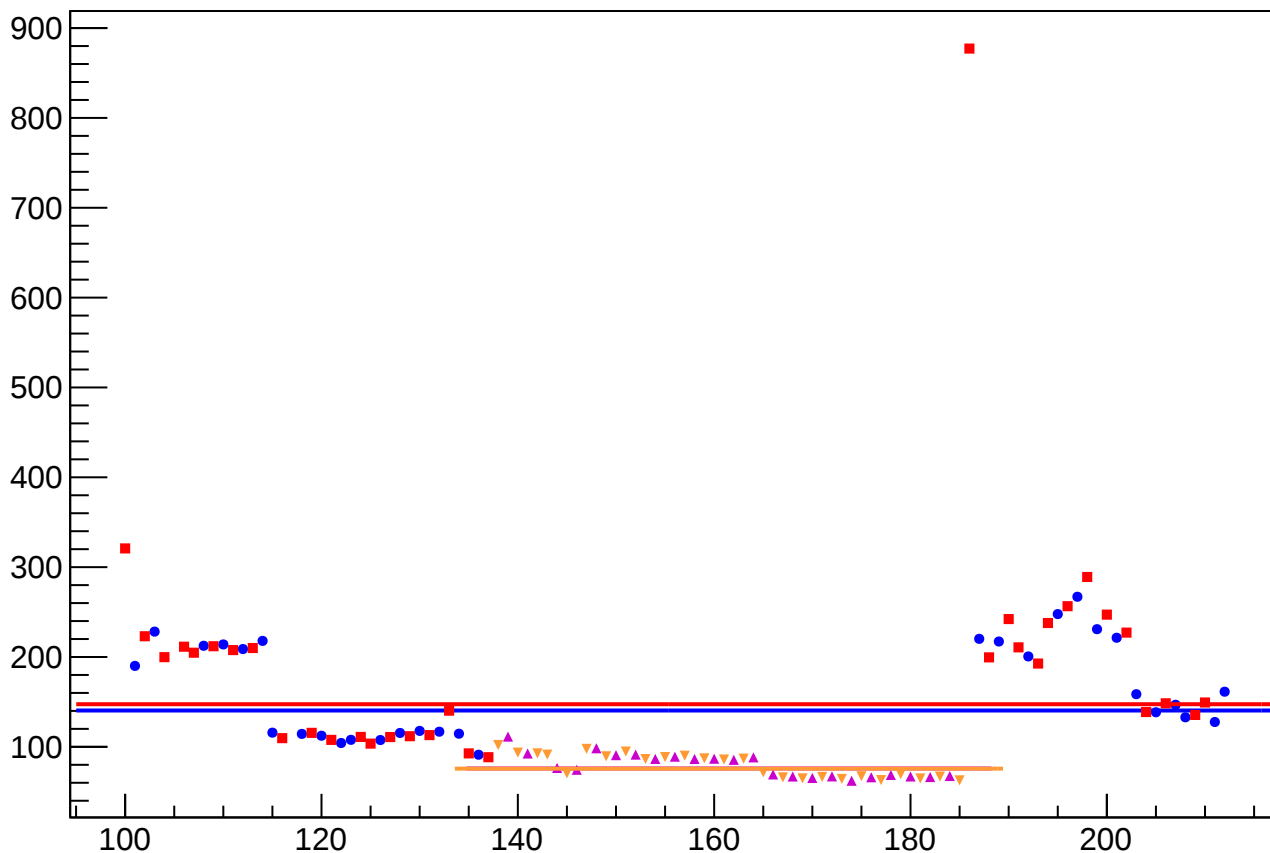
Right: 43.954 $\pm$ 26.951 χ^2 /NDF: 67.5/62

In: 65.002 $\pm$ 16.535 χ^2 /NDF:42.1/52

Out: 7.282 $\pm$ 16.275 χ^2 /NDF:90.1/57

All: 35.684 $\pm$ 11.599 χ^2 /NDF: 138.4/110

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.439 $\pm$ 0.026 χ^2 /NDF: 2910707.8/29

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 147.442 $\pm$ 0.028 χ^2 /NDF: 3885815.1/32

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

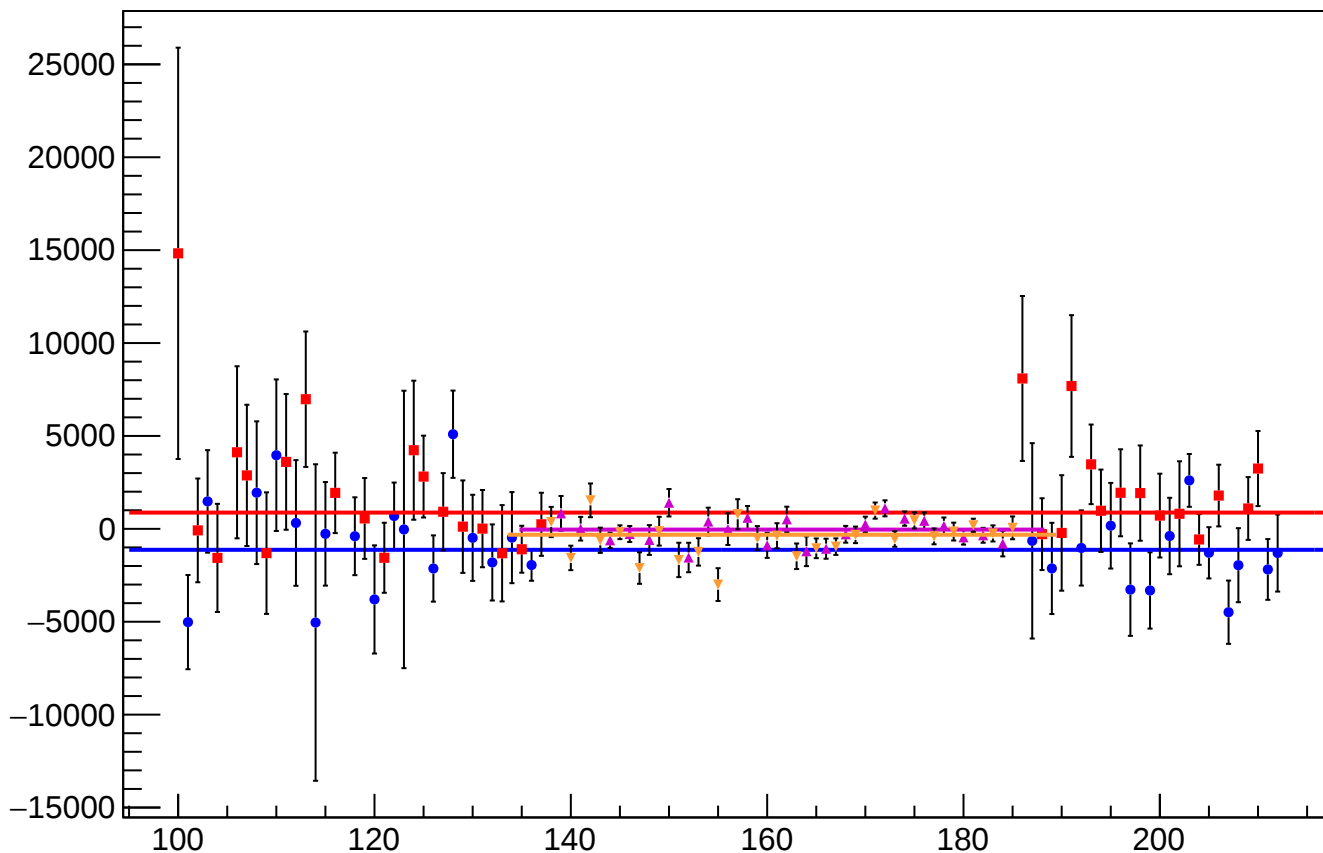
Right: 143.786 $\pm$ 0.019 χ^2 /NDF: 6830213.6/62

In: 88.590 $\pm$ 0.012 χ^2 /NDF:8551736.4/52

Out: 88.238 $\pm$ 0.012 χ^2 /NDF:10409469.3/57

All: 88.411 $\pm$ 0.008 χ^2 /NDF: 18961668.5/110

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1128.849 $\pm$ 370.449 χ^2 /NDF: 30.4/29

Left Out: -318.064 $\pm$ 108.014 χ^2 /NDF:50.0/24

Right Out: 874.876 $\pm$ 395.022 χ^2 /NDF: 25.0/32

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

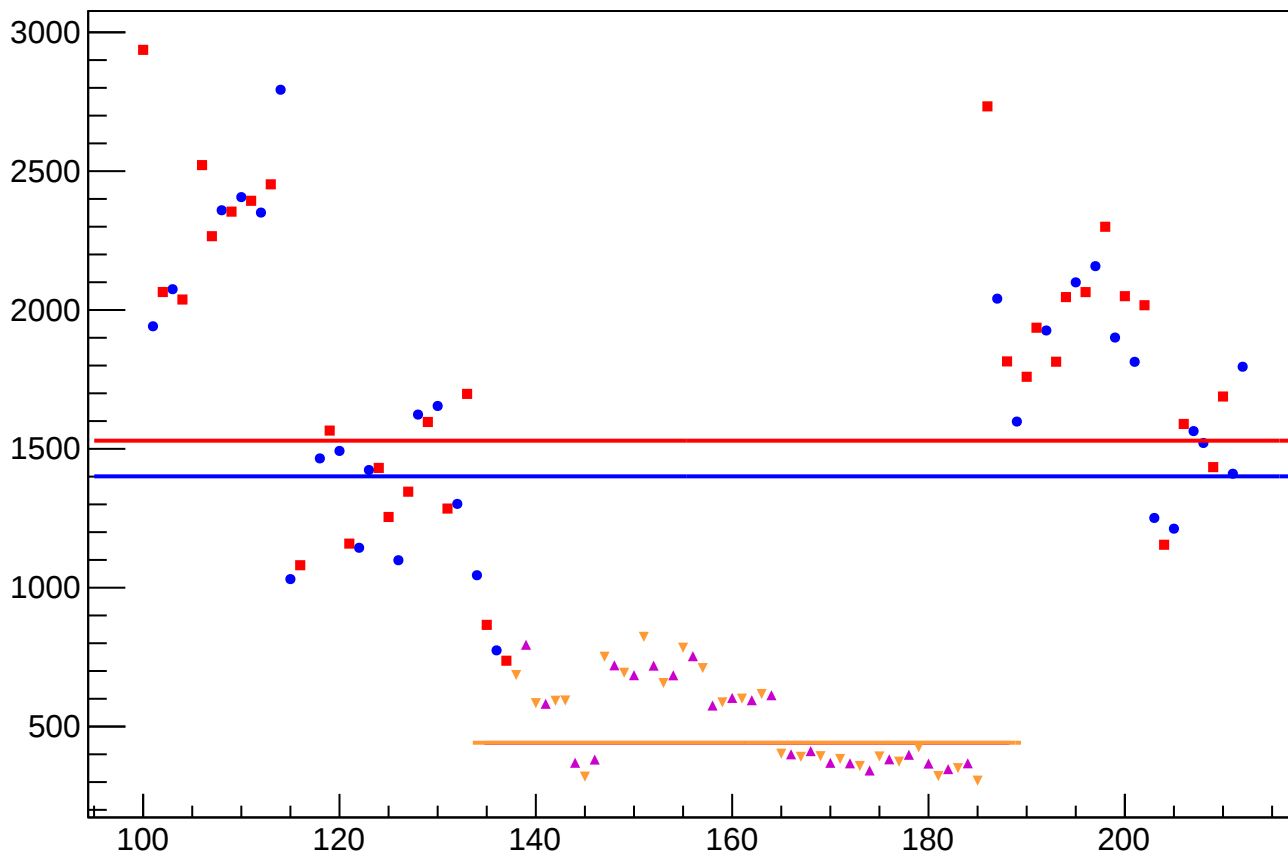
Right: -191.245 $\pm$ 270.217 χ^2 /NDF: 69.1/62

In: -129.033 $\pm$ 105.672 χ^2 /NDF:73.0/52

Out: -235.076 $\pm$ 104.189 χ^2 /NDF:83.6/57

All: -182.804 $\pm$ 74.191 χ^2 /NDF: 157.1/110

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1400.990+/-0.262 χ^2/NDF : 2888149.4/29

Left Out: 441.685+/-0.076 χ^2/NDF :3169140.9/24

Right Out: 1529.437+/-0.279 χ^2/NDF : 2929518.8/32

Left In: 441.009+/-0.078 χ^2/NDF :2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

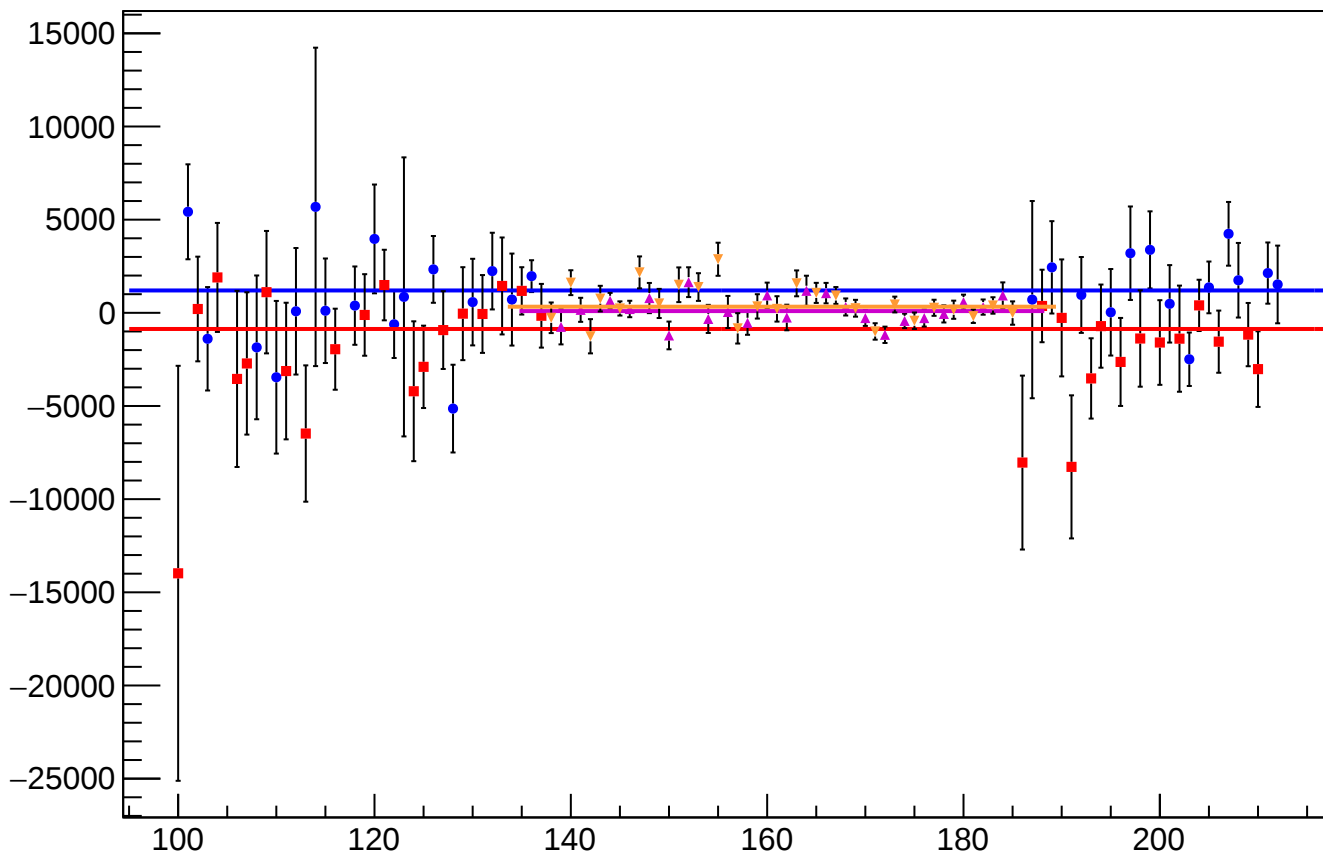
Right: 1461.094+/-0.191 χ^2/NDF : 5930181.5/62

In: 519.122+/-0.075 χ^2/NDF :17823026.4/52

Out: 517.356+/-0.074 χ^2/NDF :20208829.5/57

All: 518.226+/-0.052 χ^2/NDF : 38032139.1/11

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1200.355 $\pm$ 372.747 χ^2 /NDF: 29.6/29

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -866.896 $\pm$ 397.486 χ^2 /NDF: 24.4/32

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

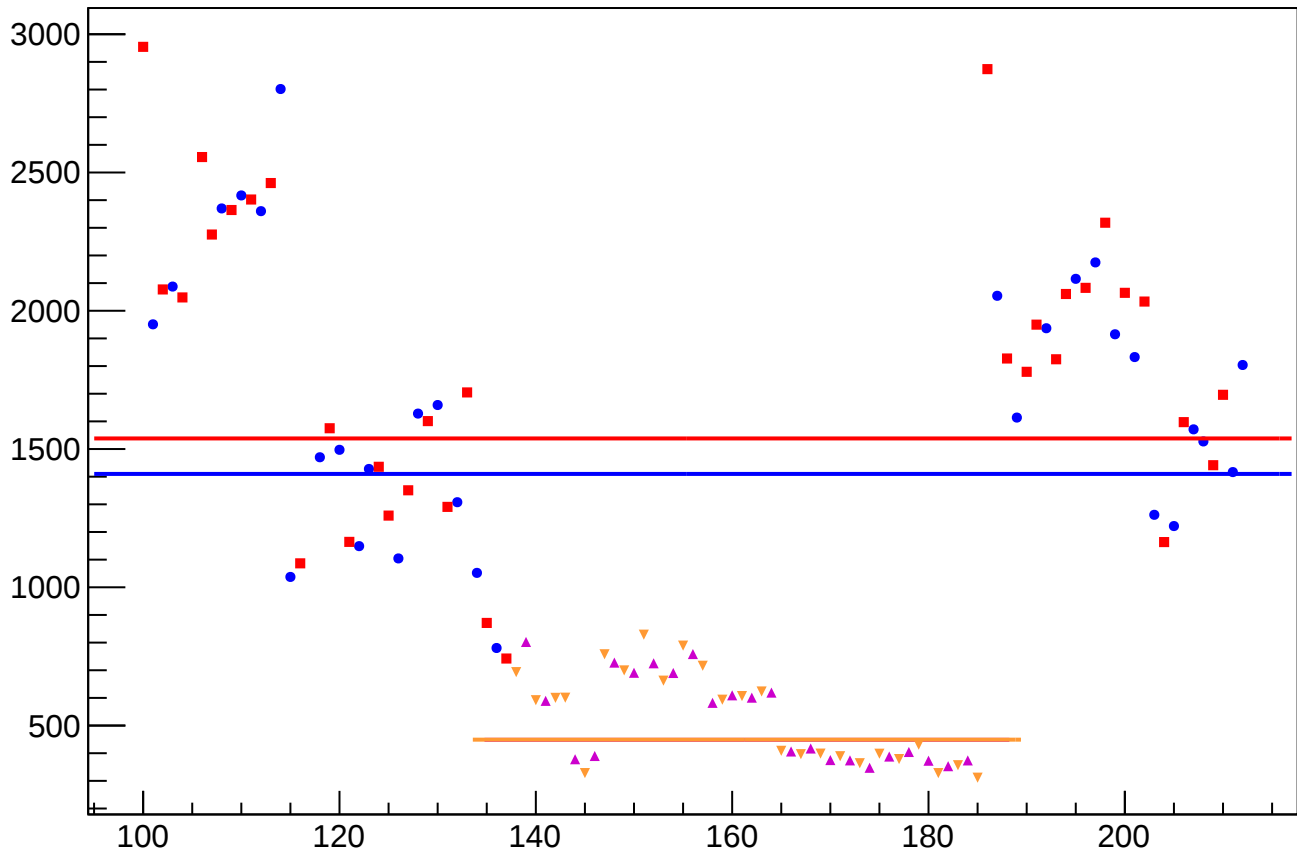
Right: 233.058 $\pm$ 271.897 χ^2 /NDF: 68.3/62

In: 184.921 $\pm$ 107.227 χ^2 /NDF: 71.0/52

Out: 244.031 $\pm$ 105.718 χ^2 /NDF: 80.5/57

All: 214.895 $\pm$ 75.282 χ^2 /NDF: 151.7/110

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1409.968 $\pm$ 0.264 χ^2 /NDF: 2877722.2/29

Left Out: 449.016 $\pm$ 0.078 χ^2 /NDF:3090476.2/24

Right Out: 1538.280 $\pm$ 0.281 χ^2 /NDF: 2949095.4/32

Left In: 448.307 $\pm$ 0.079 χ^2 /NDF:2537376.0/22

Left: 448.669 $\pm$ 0.055 χ^2 /NDF: 5627893.2/47

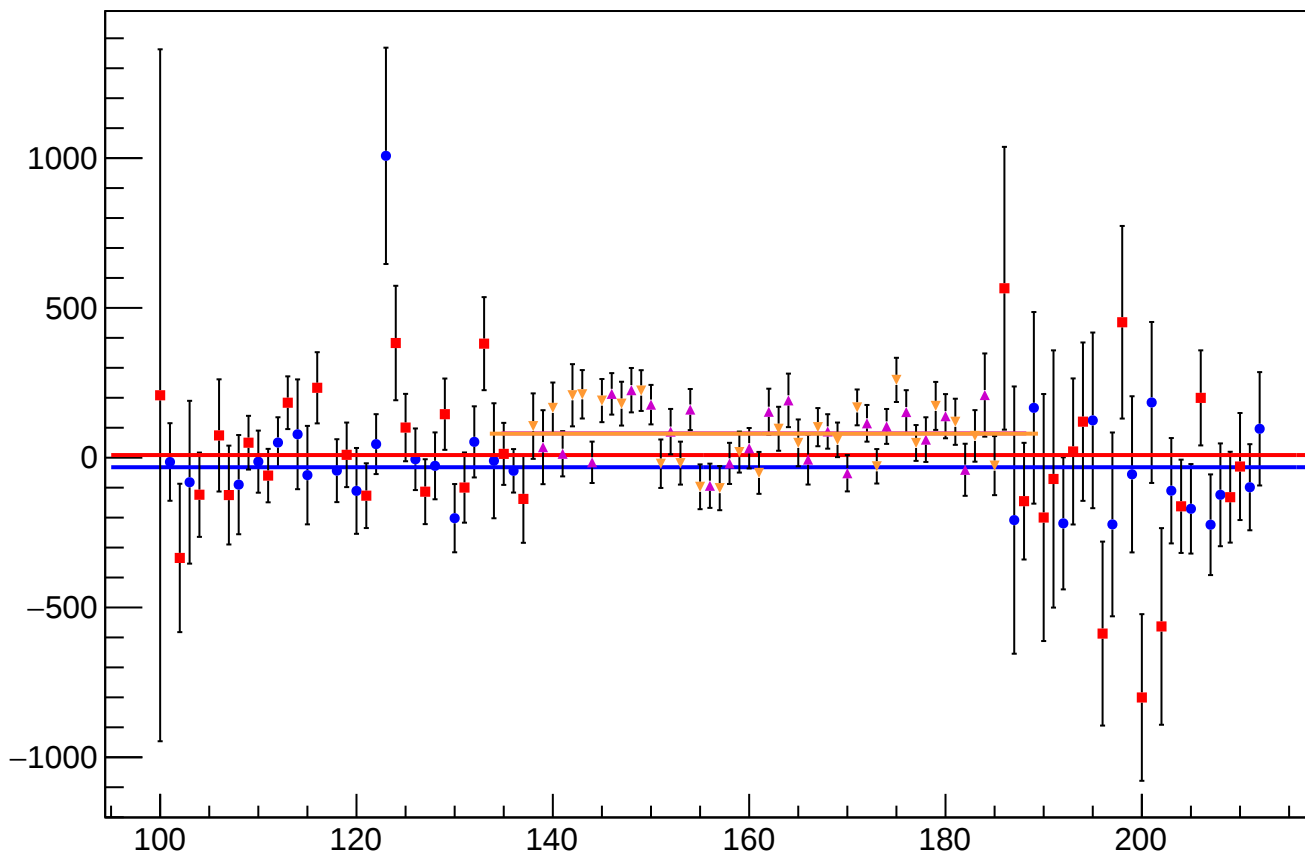
Right: 1470.007 $\pm$ 0.192 χ^2 /NDF: 5937710.8/62

In: 527.887 $\pm$ 0.076 χ^2 /NDF:17625574.7/52

Out: 526.069 $\pm$ 0.075 χ^2 /NDF:19996548.8/57

All: 526.965 $\pm$ 0.053 χ^2 /NDF: 37622414.9/11

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -31.824 ± 25.770 $\chi^2/\text{NDF}: 19.5/29$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 8.801 ± 25.461 $\chi^2/\text{NDF}: 51.4/32$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

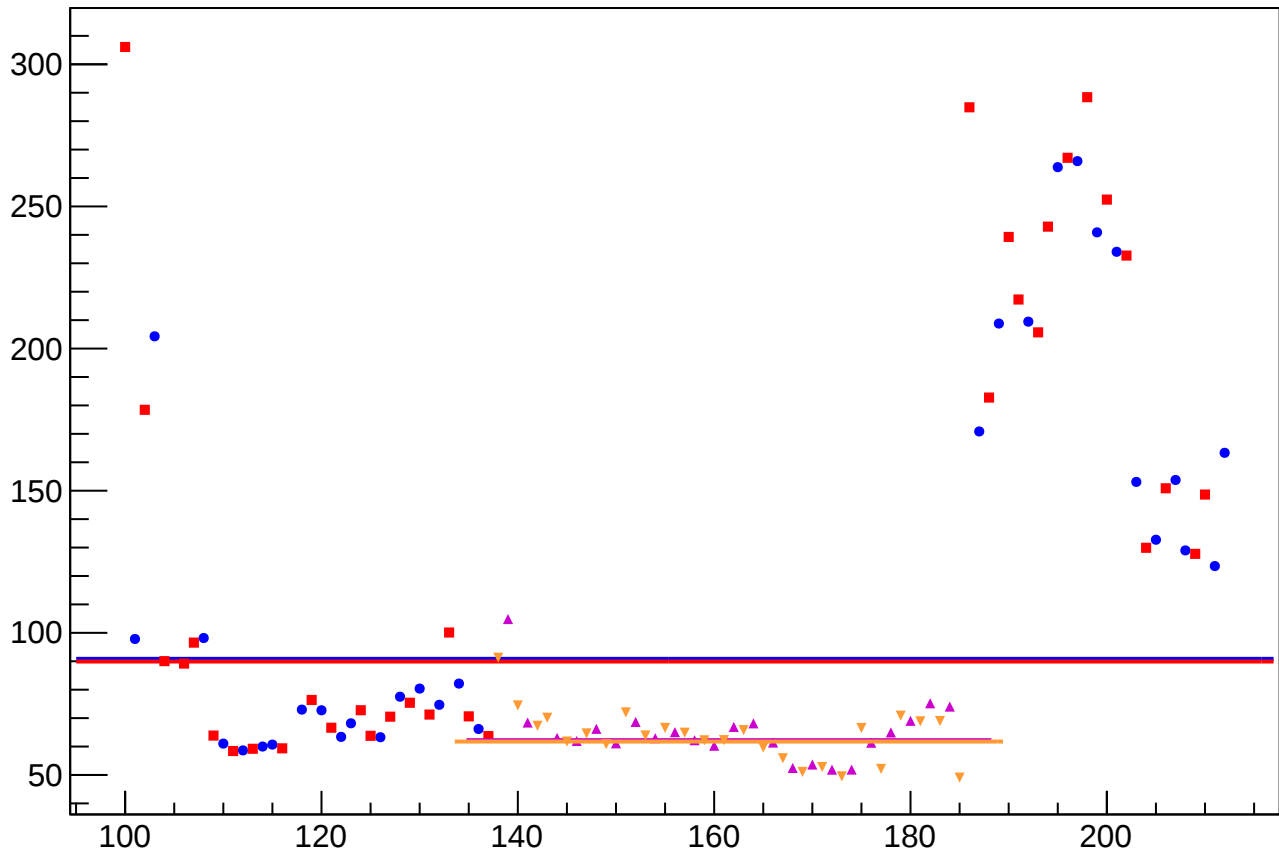
Right: -11.266 ± 18.112 $\chi^2/\text{NDF}: 72.2/62$

In: 52.264 ± 13.032 $\chi^2/\text{NDF}: 69.1/52$

Out: 62.524 ± 12.660 $\chi^2/\text{NDF}: 105.9/57$

All: 57.542 ± 9.081 $\chi^2/\text{NDF}: 175.3/110$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 90.851 $\pm$ 0.018 χ^2 /NDF: 6326303.5/29

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 89.913 $\pm$ 0.018 χ^2 /NDF: 7271821.4/32

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

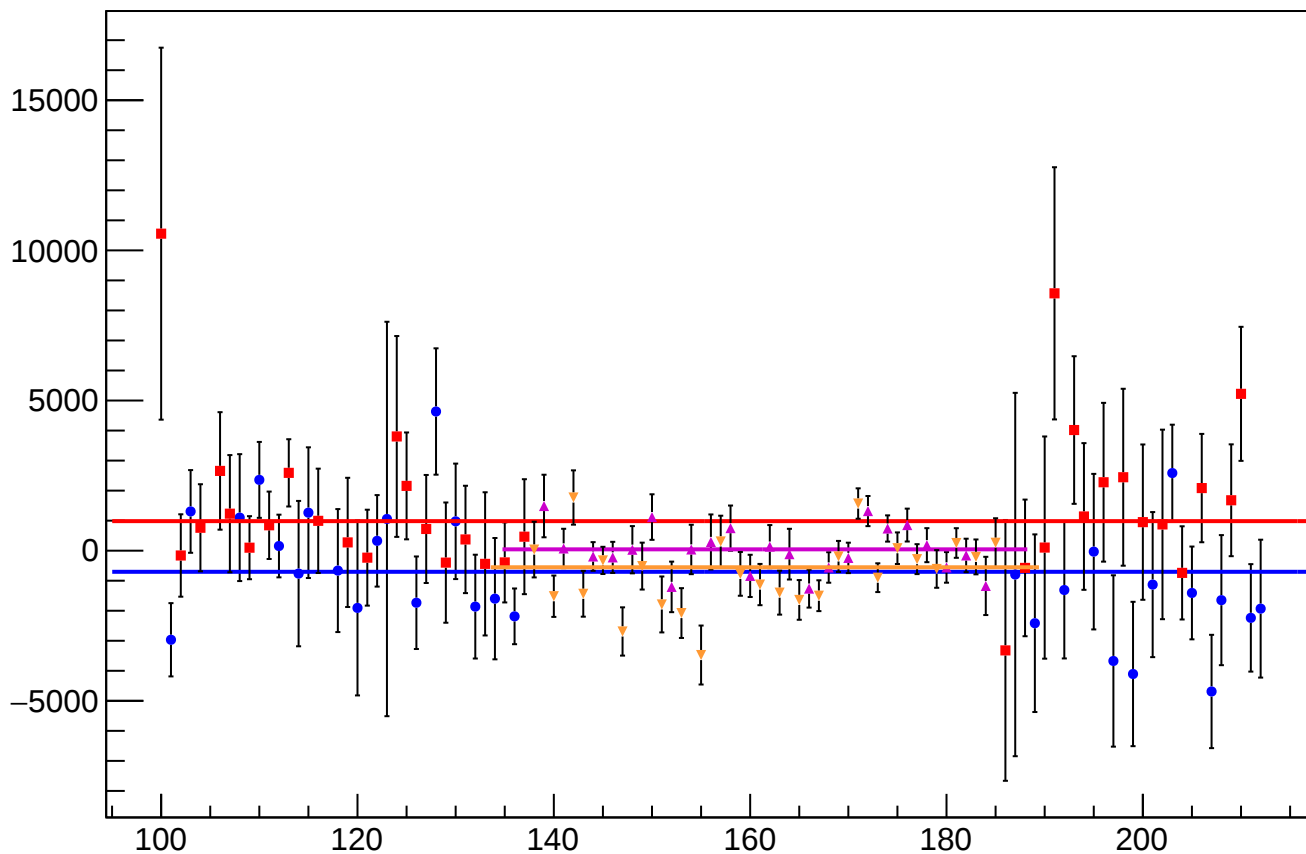
Right: 90.376 $\pm$ 0.013 χ^2 /NDF: 13599465.8/62

In: 69.564 $\pm$ 0.009 χ^2 /NDF: 8750963.0/52

Out: 68.722 $\pm$ 0.009 χ^2 /NDF: 9757888.0/57

All: 69.131 $\pm$ 0.006 χ^2 /NDF: 18513149.4/110

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -703.277 ± 323.264 χ^2/NDF : 38.9/29

Left Out: -552.511 ± 126.981 χ^2/NDF : 65.3/24

Right Out: 983.831 ± 320.879 χ^2/NDF : 22.7/32

Left In: 44.578 ± 129.095 χ^2/NDF : 29.6/22

Left: -258.894 ± 90.527 χ^2/NDF : 105.7/47

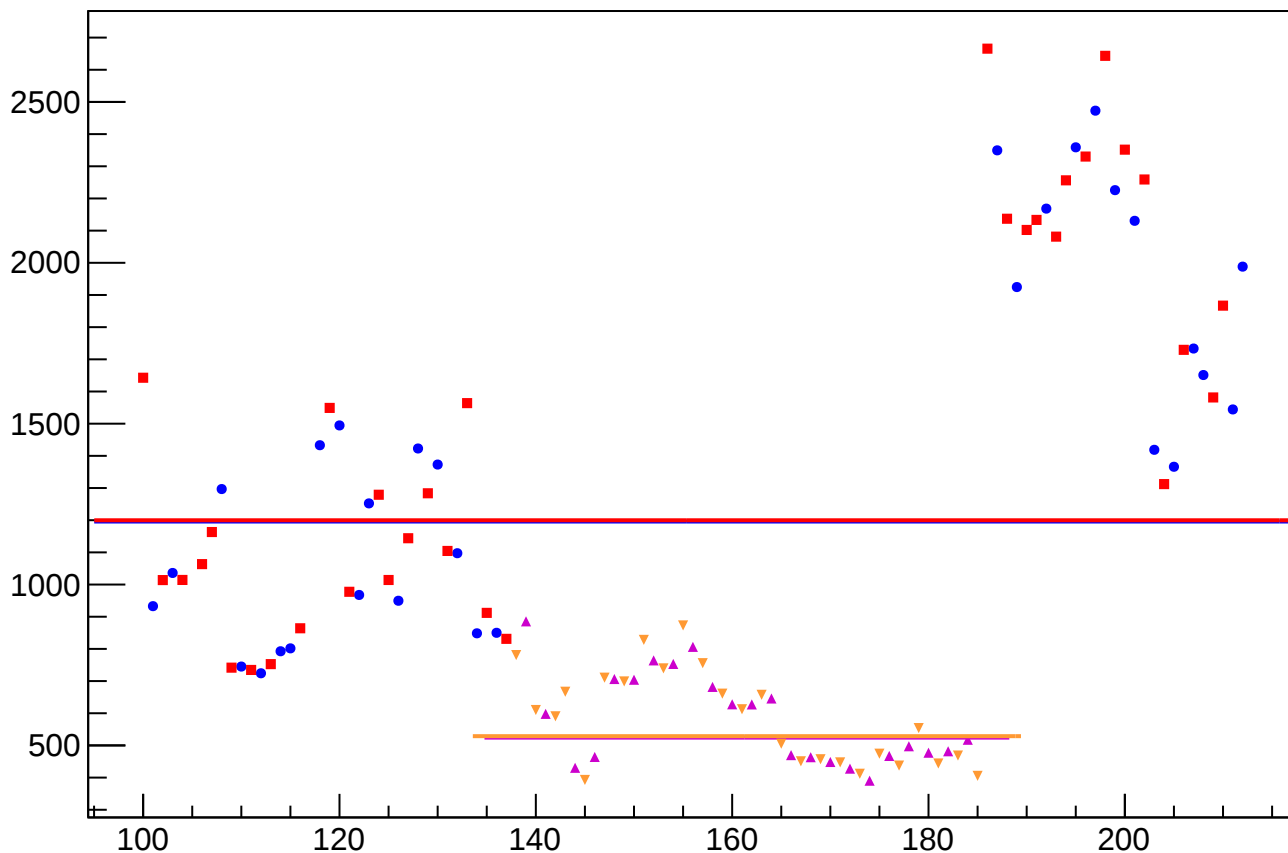
Right: 146.524 ± 227.734 χ^2/NDF : 75.3/62

In: -58.284 ± 119.888 χ^2/NDF : 73.0/52

Out: -344.494 ± 118.072 χ^2/NDF : 107.8/57

All: -203.573 ± 84.124 χ^2/NDF : 183.7/110

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1195.906 $\pm$ 0.229 χ^2 /NDF: 4092595.9/29

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 1199.752 $\pm$ 0.227 χ^2 /NDF: 4877901.6/32

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

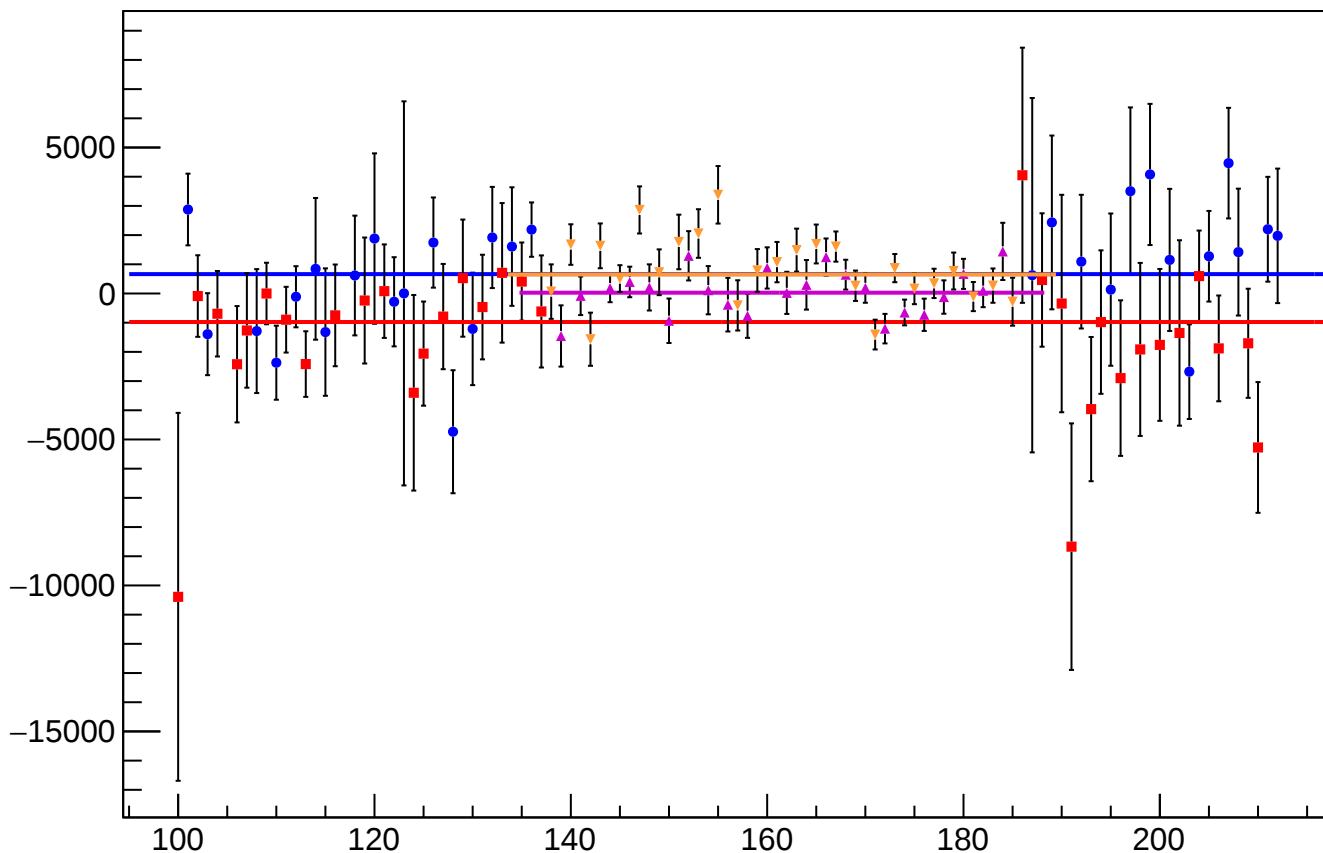
Right: 1197.844 $\pm$ 0.161 χ^2 /NDF: 8970640.1/62

In: 616.647 $\pm$ 0.085 χ^2 /NDF:13254853.3/52

Out: 619.590 $\pm$ 0.083 χ^2 /NDF:14423480.0/57

All: 618.141 $\pm$ 0.059 χ^2 /NDF: 27678944.9/111

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 663.559 ± 324.778 $\chi^2/\text{NDF}: 38.4/29$

Left Out: 651.560 ± 127.961 $\chi^2/\text{NDF}: 61.1/24$

Right Out: -976.948 ± 322.501 $\chi^2/\text{NDF}: 21.8/32$

Left In: 27.483 ± 130.127 $\chi^2/\text{NDF}: 28.5/22$

Left: 344.758 ± 91.238 $\chi^2/\text{NDF}: 101.2/47$

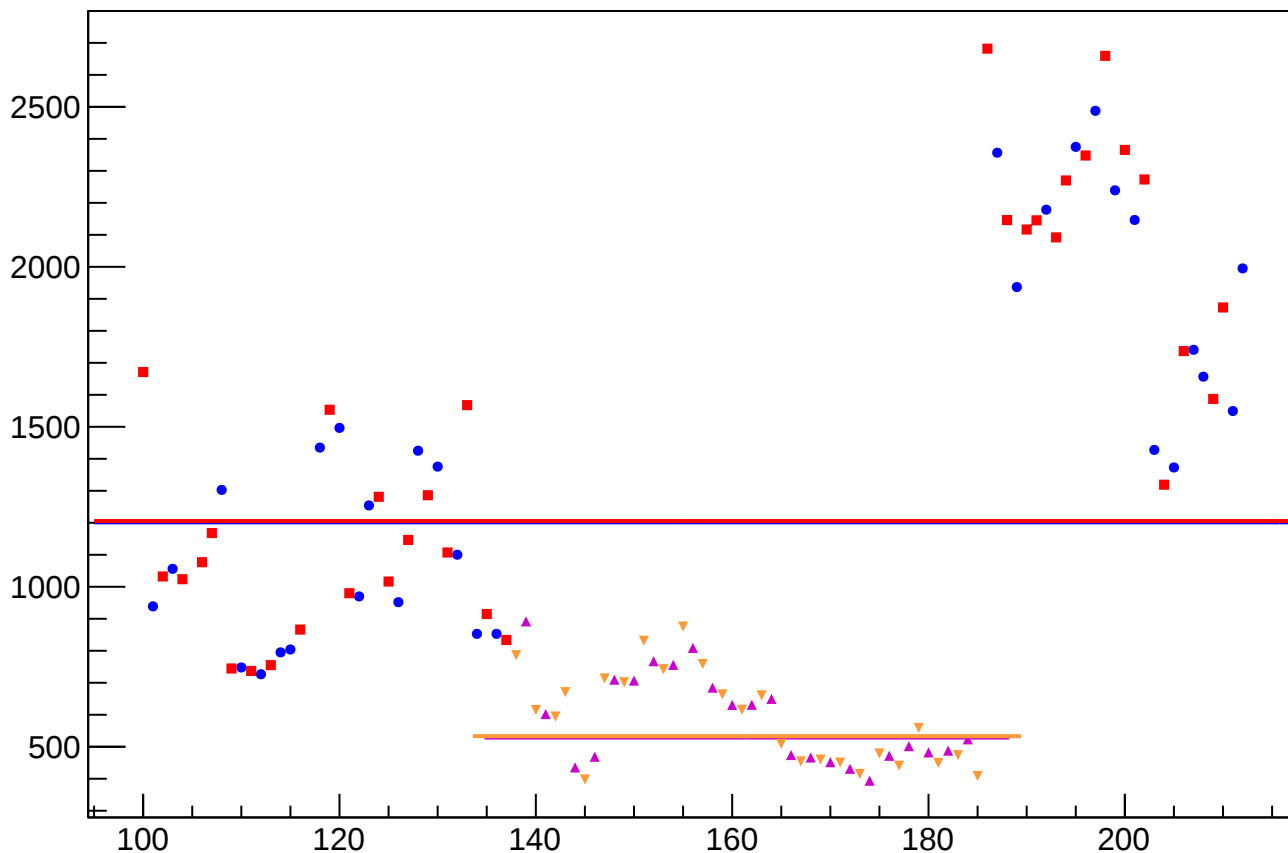
Right: -162.466 ± 228.844 $\chi^2/\text{NDF}: 73.0/62$

In: 115.469 ± 120.792 $\chi^2/\text{NDF}: 70.1/52$

Out: 430.053 ± 118.941 $\chi^2/\text{NDF}: 104.9/57$

All: 275.190 ± 84.751 $\chi^2/\text{NDF}: 178.5/110$

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1201.391 $\pm$ 0.230 χ^2 /NDF: 4098249.6/29

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF:1951536.4/24

Right Out: 1205.482 $\pm$ 0.228 χ^2 /NDF: 4886101.2/32

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

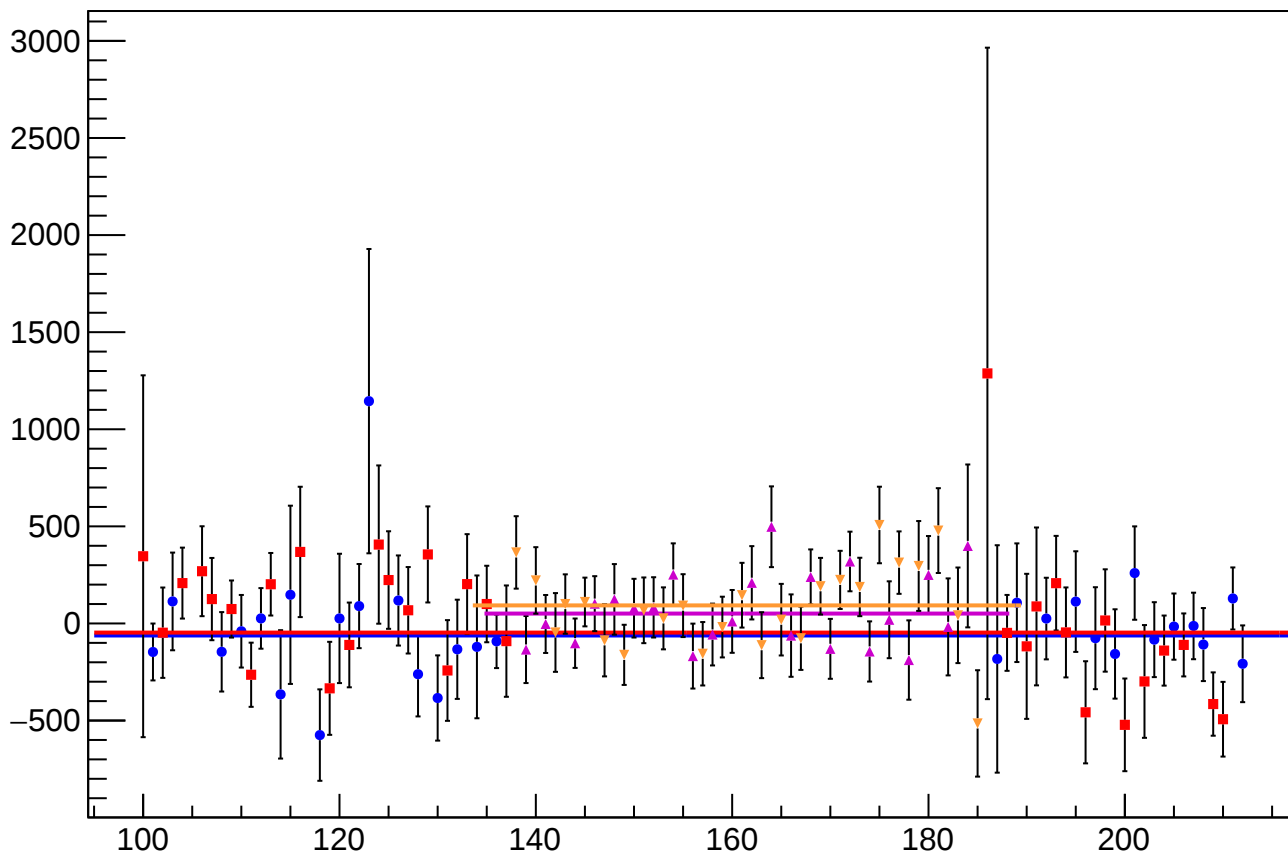
Right: 1203.451 $\pm$ 0.162 χ^2 /NDF: 8984510.7/62

In: 621.745 $\pm$ 0.085 χ^2 /NDF:13180045.1/52

Out: 624.522 $\pm$ 0.084 χ^2 /NDF:14349641.4/57

All: 623.155 $\pm$ 0.060 χ^2 /NDF: 27530223.1/11

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -61.948 ± 39.346 $\chi^2/\text{NDF}: 18.9/29$

Left Out: 92.994 ± 34.054 $\chi^2/\text{NDF}: 29.4/24$

Right Out: -47.056 ± 39.146 $\chi^2/\text{NDF}: 39.9/32$

Left In: 50.896 ± 35.280 $\chi^2/\text{NDF}: 23.5/22$

Left: 72.689 ± 24.502 $\chi^2/\text{NDF}: 53.6/47$

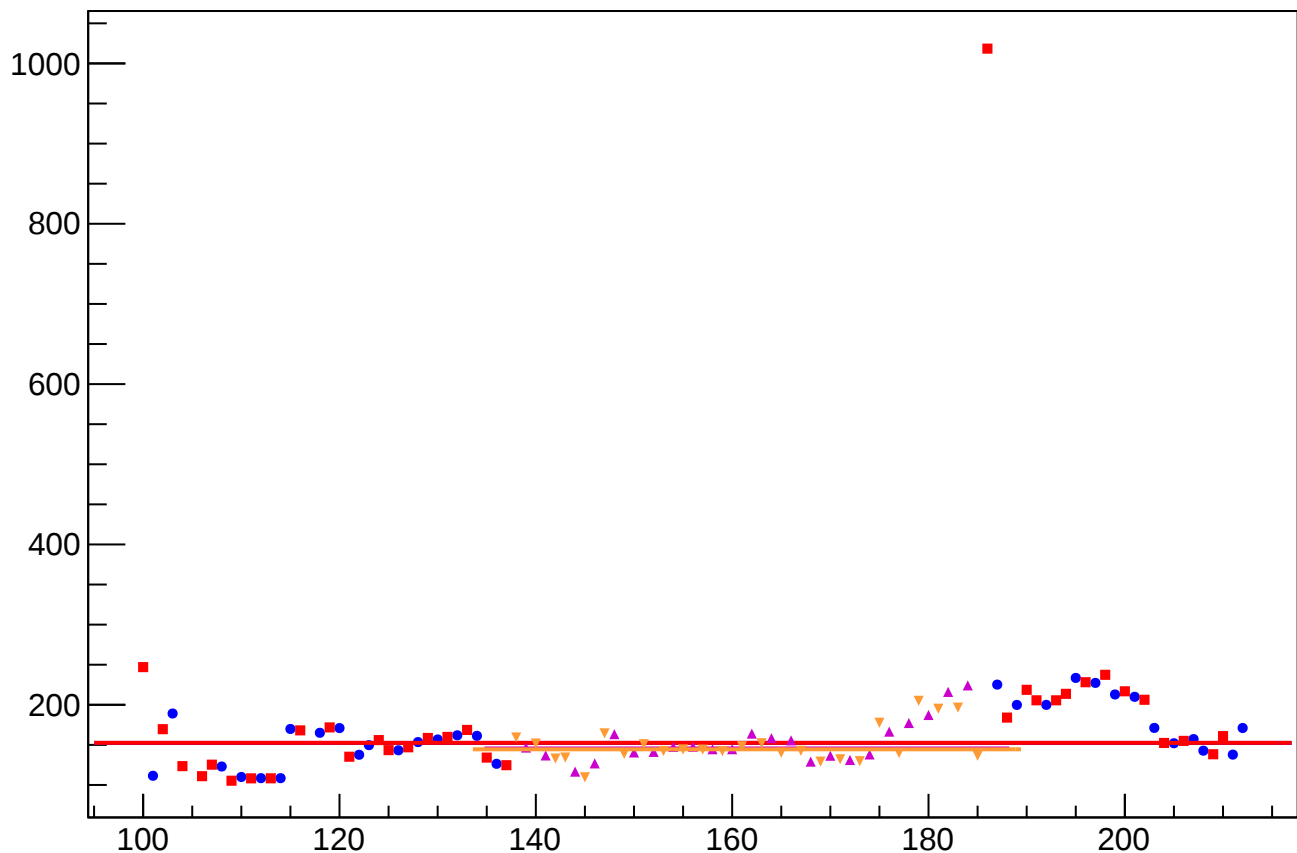
Right: -54.464 ± 27.751 $\chi^2/\text{NDF}: 58.9/62$

In: 0.604 ± 26.267 $\chi^2/\text{NDF}: 46.9/52$

Out: 32.665 ± 25.693 $\chi^2/\text{NDF}: 76.6/57$

All: 16.989 ± 18.367 $\chi^2/\text{NDF}: 124.3/110$

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 152.431 $\pm$ 0.028 χ^2 /NDF: 1493329.9/29

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 152.533 $\pm$ 0.028 χ^2 /NDF: 2283323.4/32

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

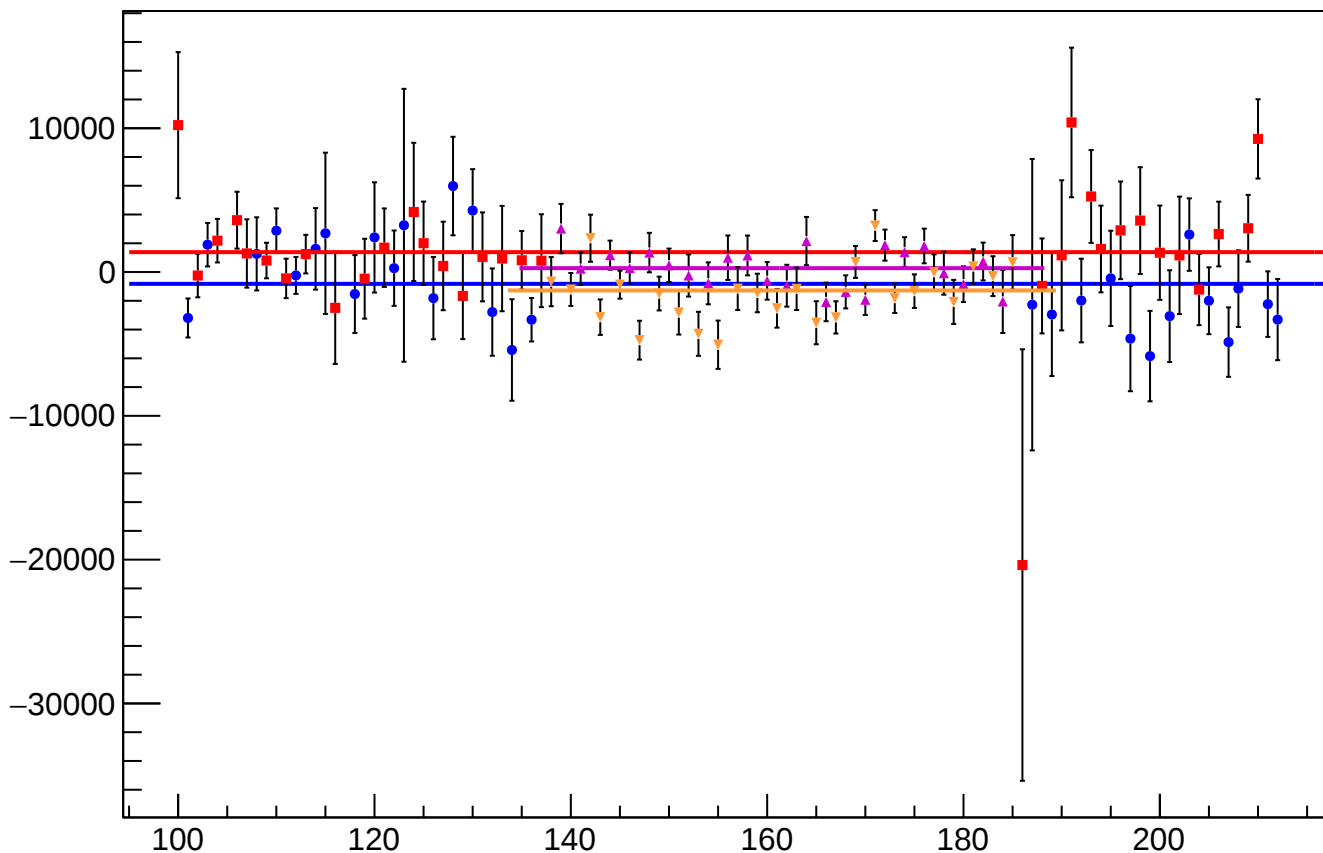
Right: 152.482 $\pm$ 0.020 χ^2 /NDF: 3776660.0/62

In: 148.608 $\pm$ 0.019 χ^2 /NDF: 2170921.7/52

Out: 147.946 $\pm$ 0.018 χ^2 /NDF: 3002044.2/57

All: 148.270 $\pm$ 0.013 χ^2 /NDF: 5173615.7/110

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -821.033+/-440.638 χ^2/NDF : 37.8/29

Left Out: -1279.328+/-259.299 χ^2/NDF :55.9/24

Right Out: 1383.233+/-419.683 χ^2/NDF : 28.5/32

Left In: 269.952+/-266.245 χ^2/NDF :24.3/22

Left: -525.161+/-185.759 χ^2/NDF : 97.6/47

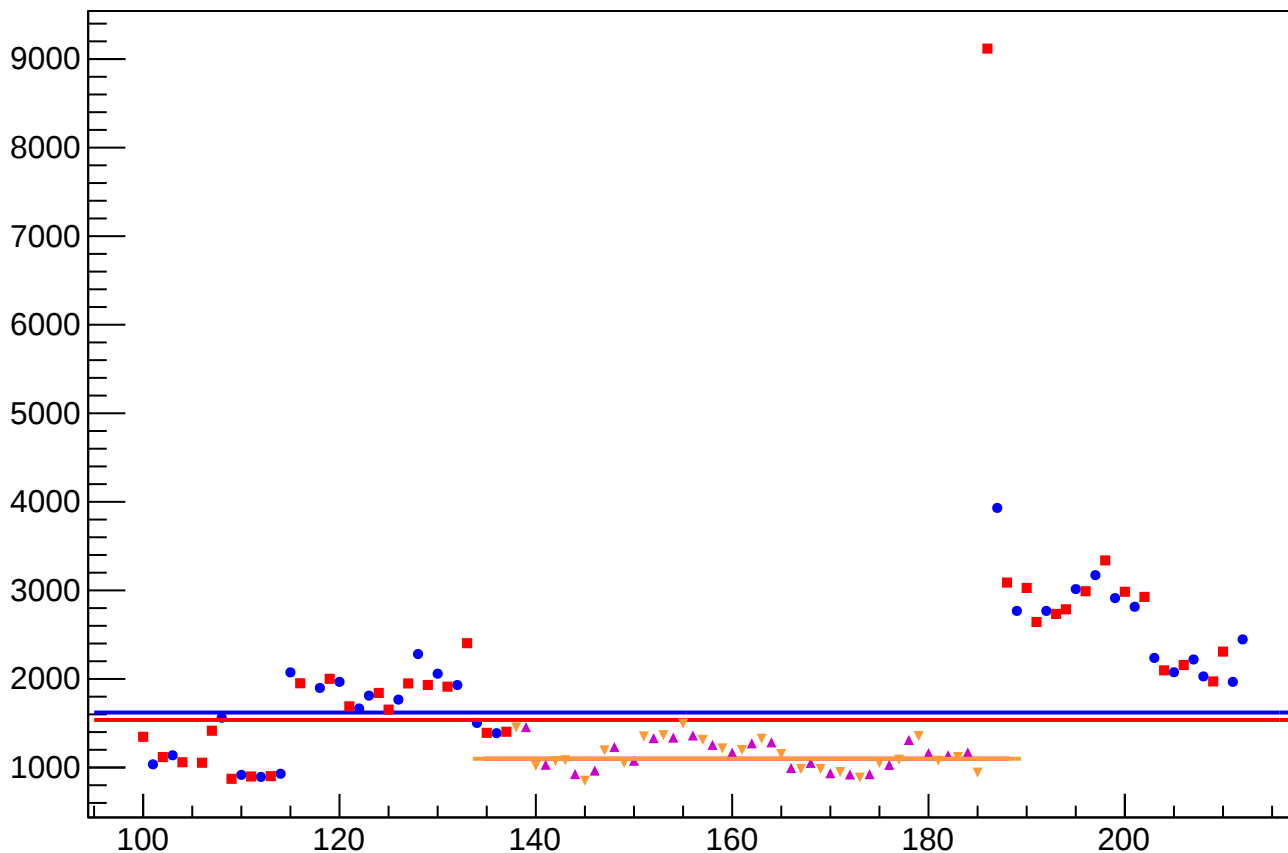
Right: 334.759+/-303.899 χ^2/NDF : 79.5/62

In: -21.829+/-227.877 χ^2/NDF :66.6/52

Out: -543.739+/-220.591 χ^2/NDF :113.6/57

All: -291.261+/-158.495 χ^2/NDF : 182.9/110

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1620.946 $\pm$ 0.312 χ^2 /NDF: 4470586.7/29

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1537.470 $\pm$ 0.297 χ^2 /NDF: 6023891.3/32

Left In: 1099.585 $\pm$ 0.188 χ^2 /NDF: 679896.1/22

Left: 1099.238 $\pm$ 0.131 χ^2 /NDF: 1504231.4/47

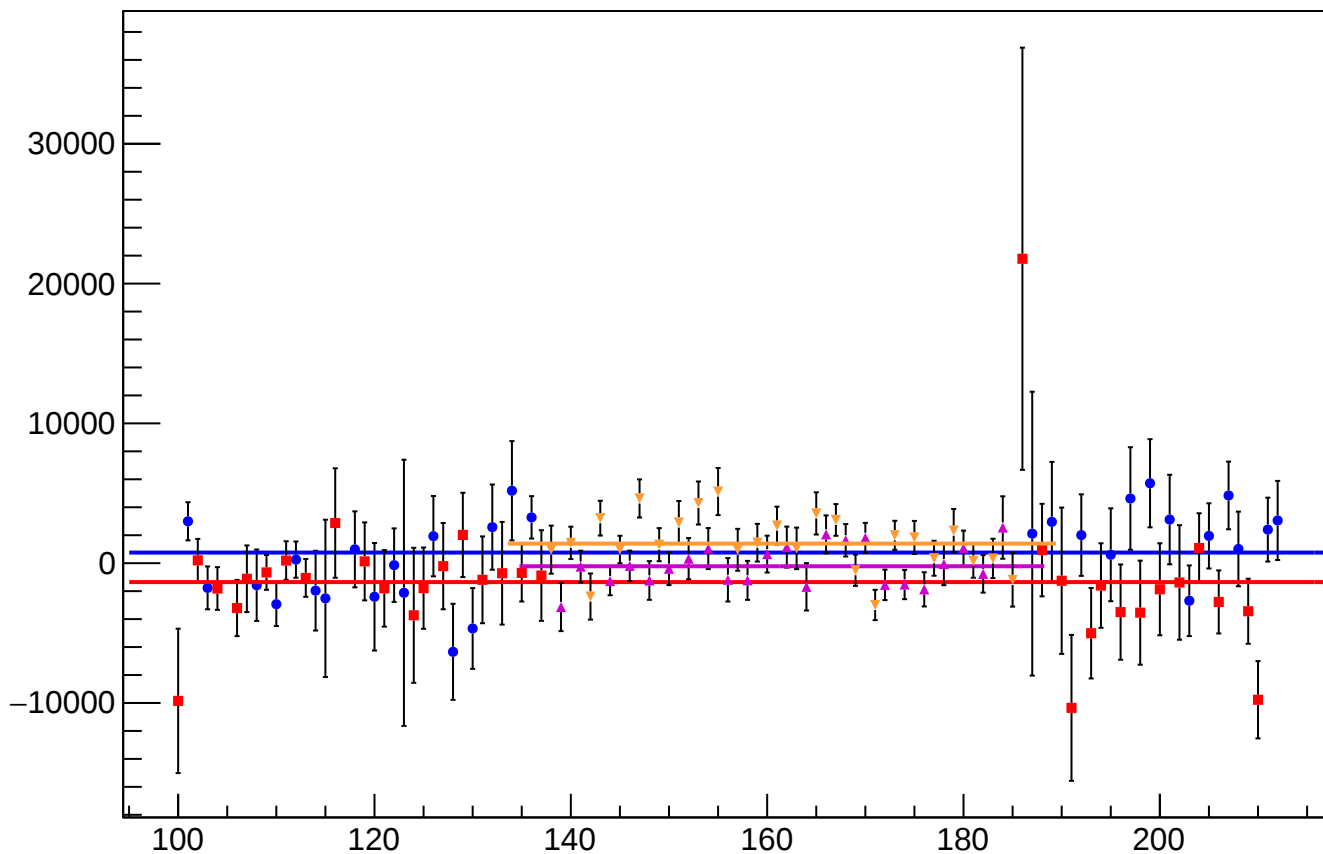
Right: 1577.176 $\pm$ 0.215 χ^2 /NDF: 10532114.8/62

In: 1239.022 $\pm$ 0.161 χ^2 /NDF: 7201560.3/52

Out: 1220.071 $\pm$ 0.156 χ^2 /NDF: 8428824.3/57

All: 1229.238 $\pm$ 0.112 χ^2 /NDF: 15637525.4/111

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 760.323+/-443.013 χ^2/NDF : 37.5/29

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -1352.304+/-422.396 χ^2/NDF : 28.9/32

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

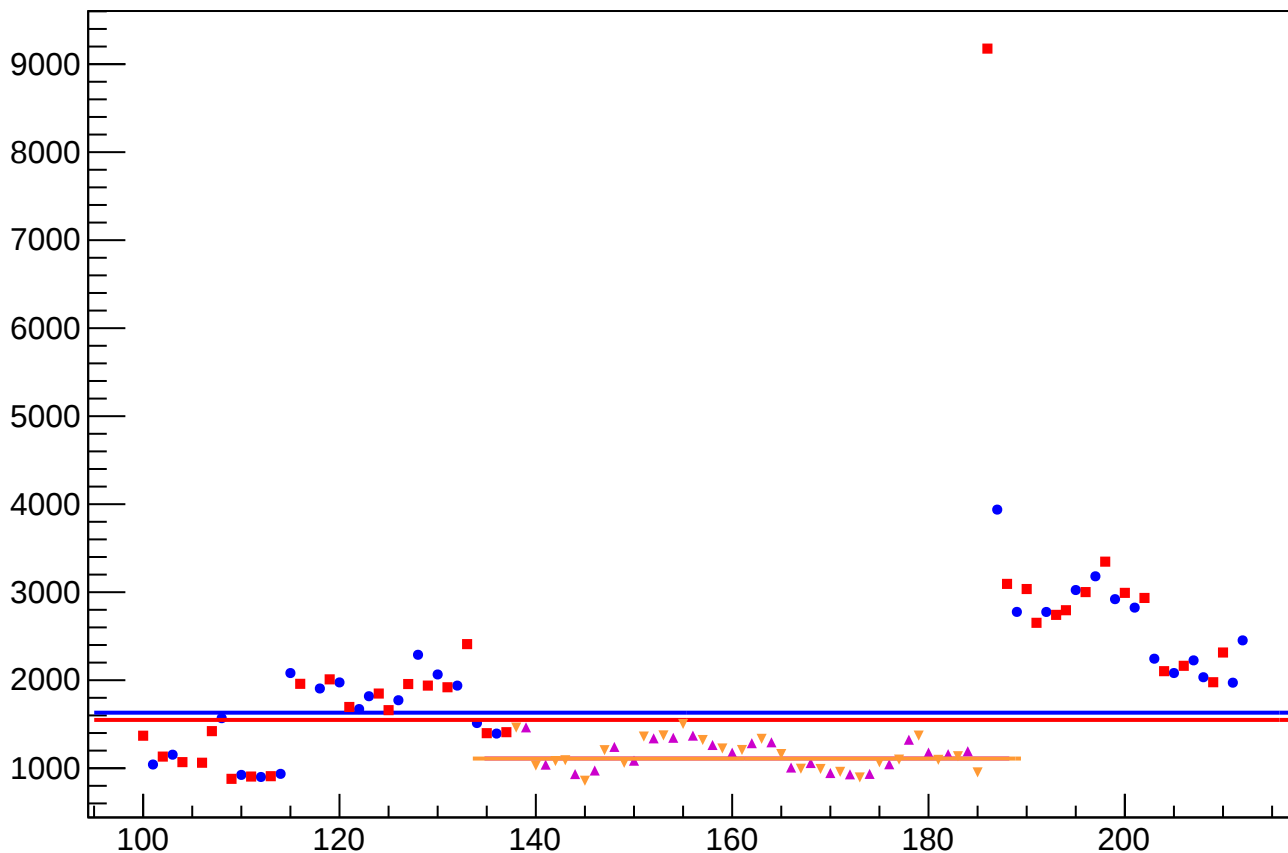
Right: -346.293+/-305.708 χ^2/NDF : 78.3/62

In: 44.310+/-229.839 χ^2/NDF : 66.1/52

Out: 636.455+/-222.527 χ^2/NDF : 111.8/57

All: 349.951+/-159.873 χ^2/NDF : 181.3/110

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1631.100+/-0.313 χ^2/NDF : 4424747.1/29

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1548.792+/-0.299 χ^2/NDF : 5966509.9/32

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

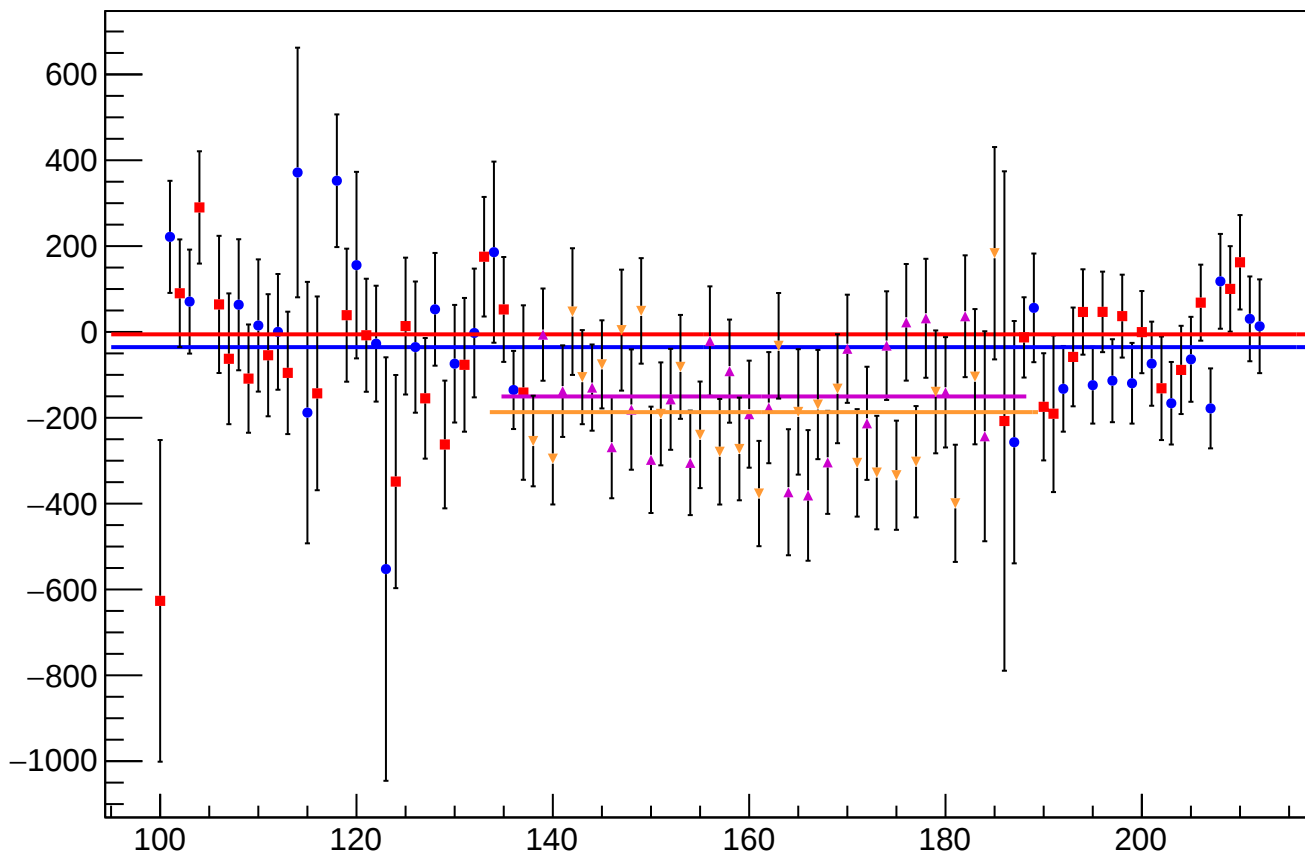
Right: 1587.986+/-0.216 χ^2/NDF : 10427419.1/62

In: 1250.657+/-0.163 χ^2/NDF : 7112840.2/52

Out: 1231.610+/-0.157 χ^2/NDF : 8339653.5/57

All: 1240.826+/-0.113 χ^2/NDF : 15459582.8/111

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -35.411 ± 22.523 χ^2/NDF : 30.0/29

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: -5.581 ± 22.253 χ^2/NDF : 28.9/32

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

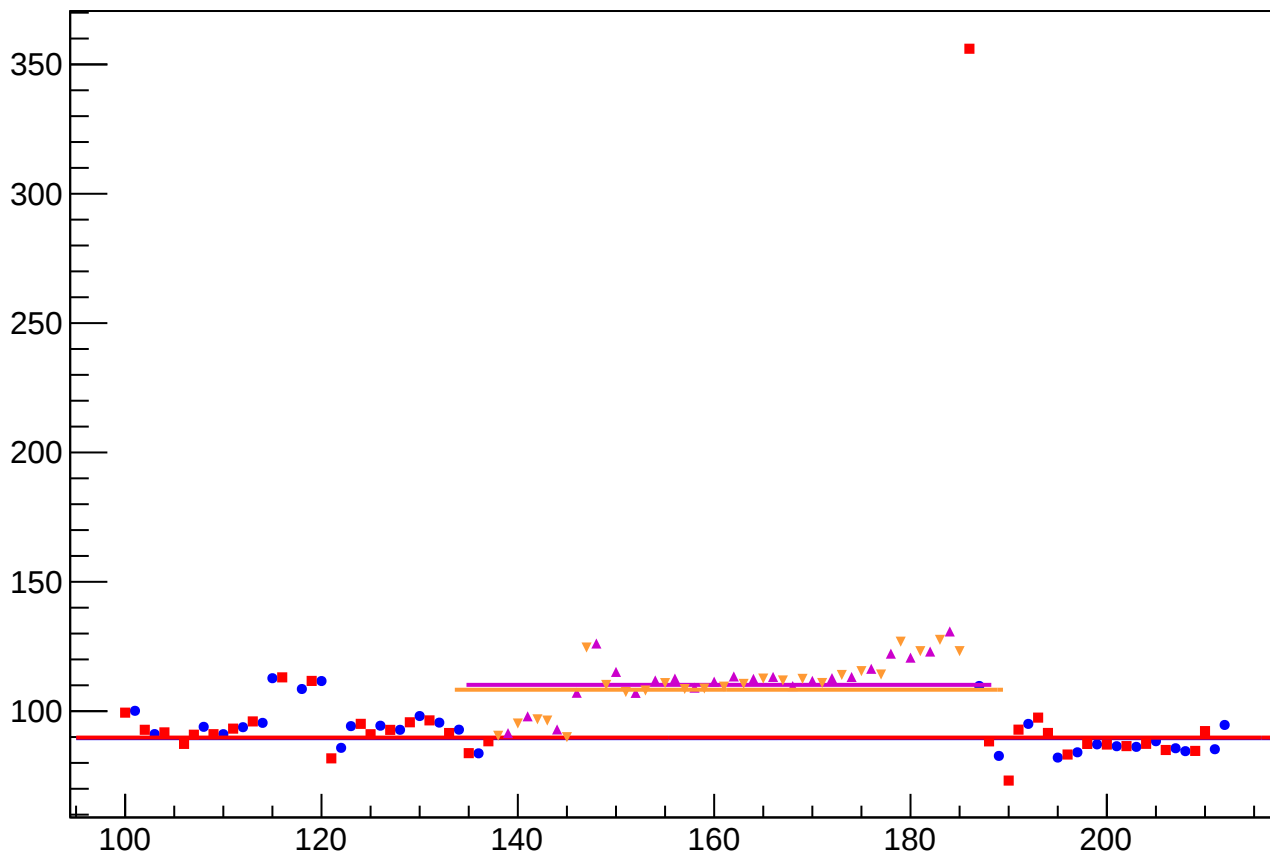
Right: -20.316 ± 15.830 χ^2/NDF : 59.7/62

In: -83.719 ± 17.147 χ^2/NDF : 61.6/52

Out: -84.615 ± 16.712 χ^2/NDF : 84.4/57

All: -84.178 ± 11.968 χ^2/NDF : 146.0/110

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.564 $\pm$ 0.016 χ^2 /NDF: 169726.6/29

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 89.792 $\pm$ 0.016 χ^2 /NDF: 583966.7/32

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

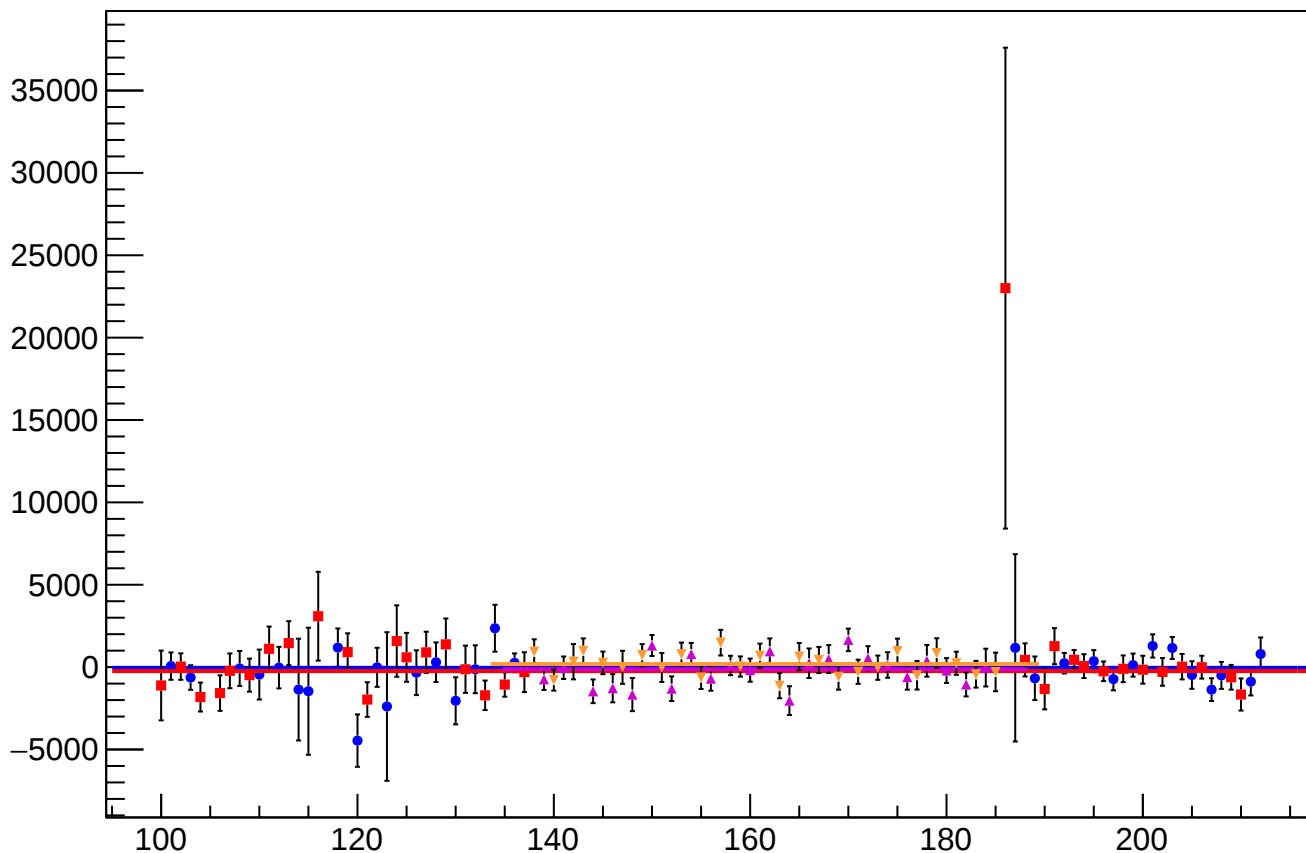
Right: 89.680 $\pm$ 0.011 χ^2 /NDF: 753796.7/62

In: 98.229 $\pm$ 0.012 χ^2 /NDF: 1120682.5/52

Out: 97.857 $\pm$ 0.012 χ^2 /NDF: 1517071.9/57

All: 98.038 $\pm$ 0.008 χ^2 /NDF: 2638237.3/110

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -44.272 ± 170.643 $\chi^2/\text{NDF}: 30.1/29$

Left Out: 185.392 ± 153.683 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -242.450 ± 167.494 $\chi^2/\text{NDF}: 29.6/32$

Left In: -128.782 ± 157.155 $\chi^2/\text{NDF}: 36.2/22$

Left: 31.814 ± 109.877 $\chi^2/\text{NDF}: 56.6/47$

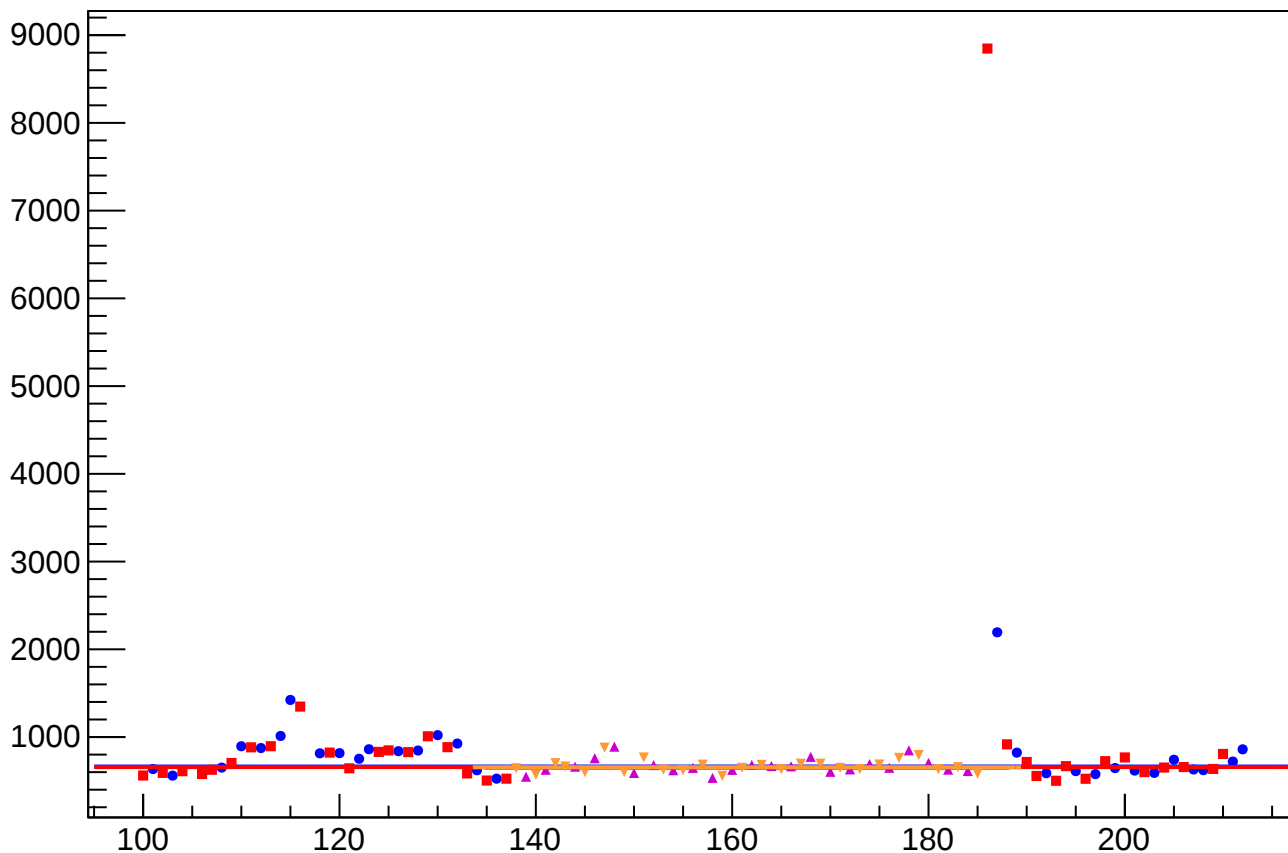
Right: -145.206 ± 119.534 $\chi^2/\text{NDF}: 60.4/62$

In: -89.998 ± 115.600 $\chi^2/\text{NDF}: 66.4/52$

Out: -10.165 ± 113.239 $\chi^2/\text{NDF}: 51.5/57$

All: -49.258 ± 80.894 $\chi^2/\text{NDF}: 118.2/110$

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 663.938+/-0.121 χ^2/NDF : 1097344.5/29

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 657.548+/-0.118 χ^2/NDF : 1815398.5/32

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

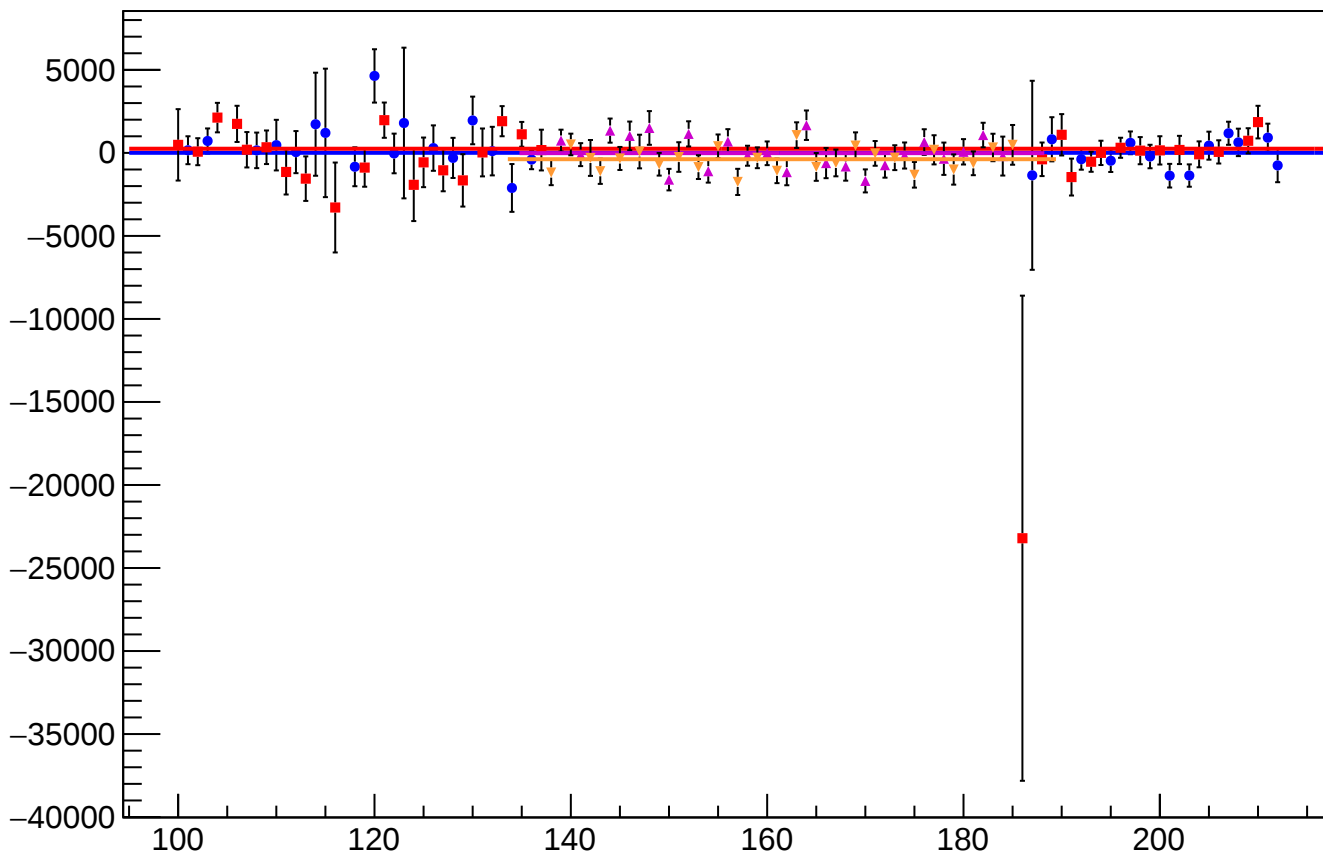
Right: 660.683+/-0.085 χ^2/NDF : 2914171.1/62

In: 656.874+/-0.082 χ^2/NDF : 1569794.6/52

Out: 656.249+/-0.080 χ^2/NDF : 2182970.0/57

All: 656.555+/-0.057 χ^2/NDF : 3752794.4/110

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 5.985 ± 172.334 χ^2/NDF : 30.5/29

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 251.196 ± 169.263 χ^2/NDF : 34.1/32

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

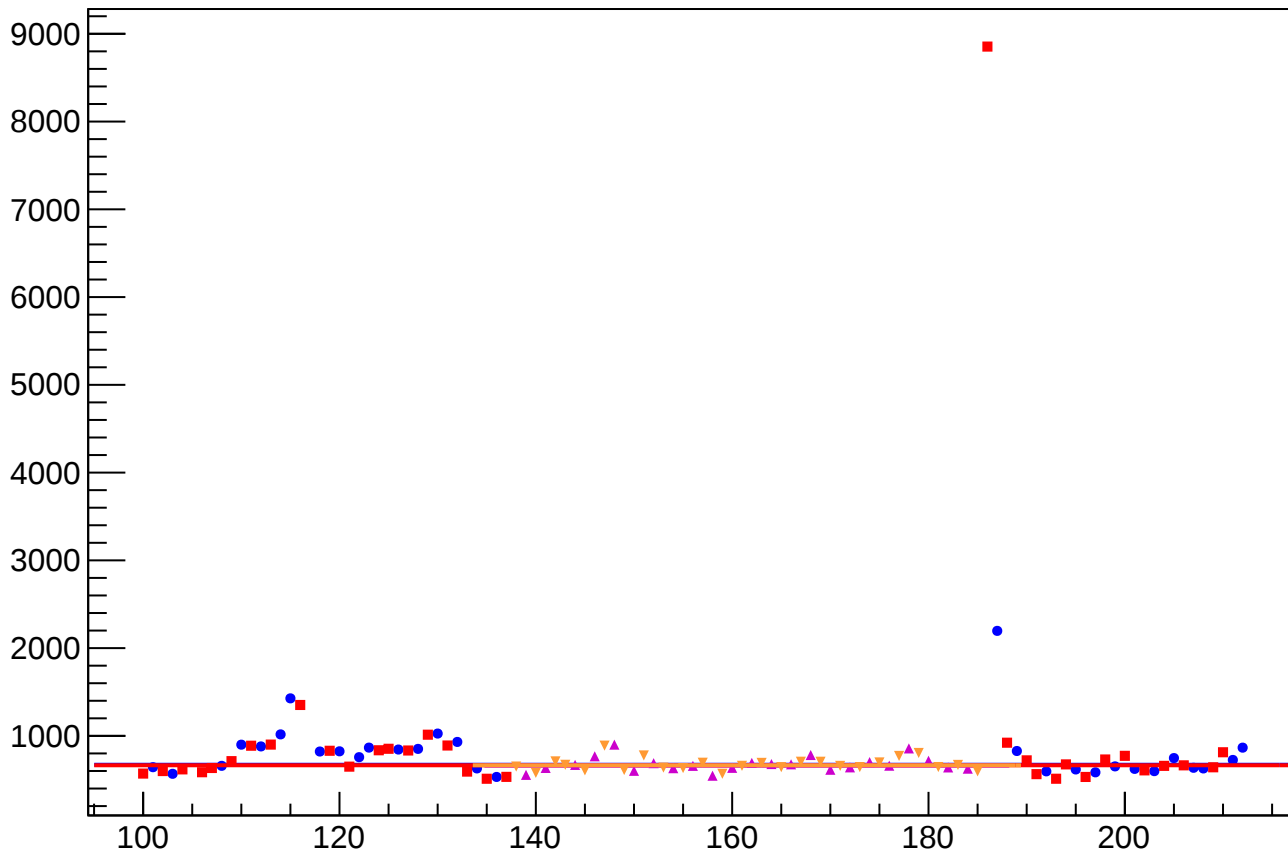
Right: 130.795 ± 120.758 χ^2/NDF : 65.6/62

In: -5.192 ± 117.063 χ^2/NDF : 67.7/52

Out: -90.028 ± 114.668 χ^2/NDF : 60.4/57

All: -48.486 ± 81.916 χ^2/NDF : 128.4/110

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 670.932 $\pm$ 0.122 χ^2 /NDF: 1072446.7/29

Left Out: 664.773 $\pm$ 0.110 χ^2 /NDF:357053.8/24

Right Out: 665.065 $\pm$ 0.120 χ^2 /NDF: 1777531.8/32

Left In: 660.890 $\pm$ 0.113 χ^2 /NDF:449180.0/22

Left: 662.876 $\pm$ 0.079 χ^2 /NDF: 806839.8/47

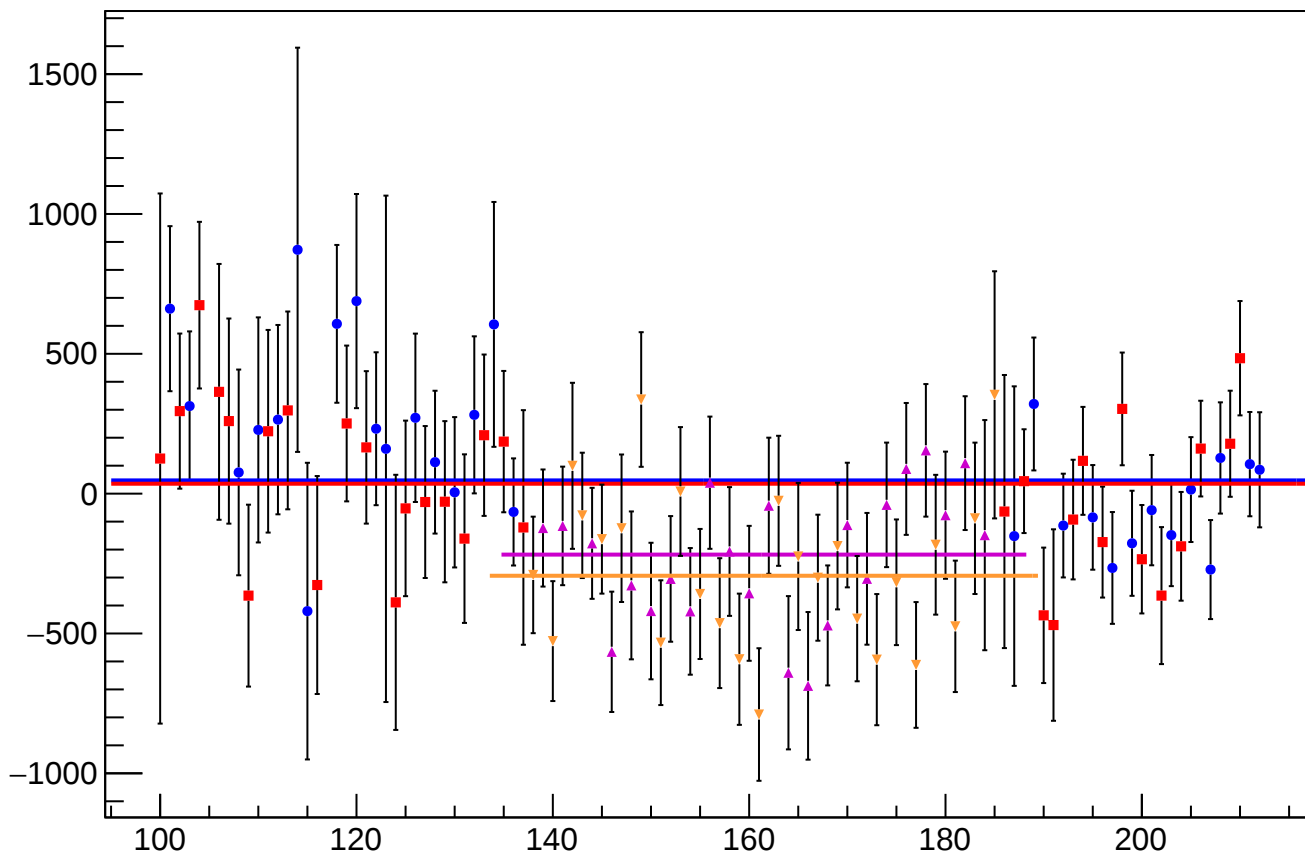
Right: 667.946 $\pm$ 0.085 χ^2 /NDF: 2851158.4/62

In: 665.524 $\pm$ 0.083 χ^2 /NDF:1525283.8/52

Out: 664.907 $\pm$ 0.081 χ^2 /NDF:2134588.9/57

All: 665.209 $\pm$ 0.058 χ^2 /NDF: 3659901.1/110

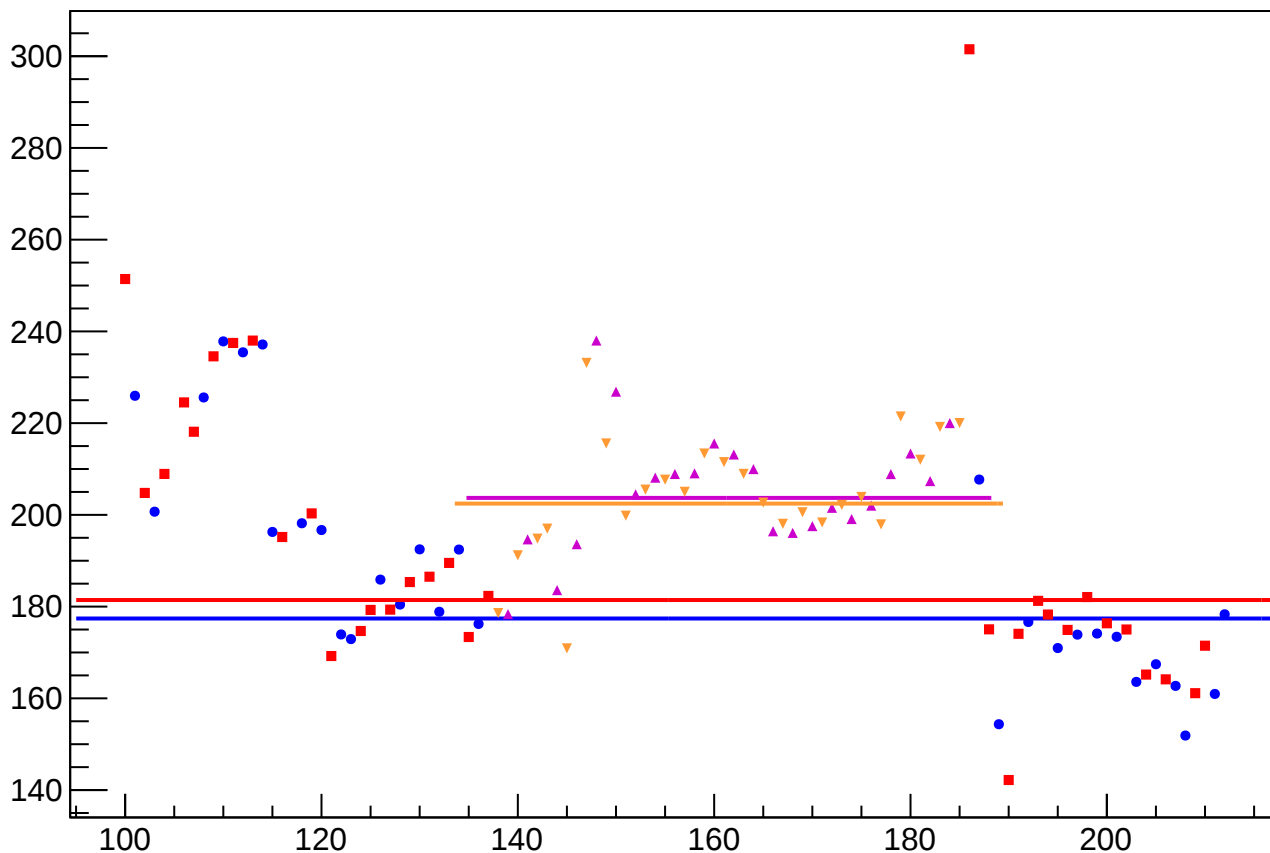
reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 47.342 ± 44.785 $\chi^2/\text{NDF}: 30.2/29$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 35.476 ± 45.004 $\chi^2/\text{NDF}: 34.0/32$
 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: 41.438 ± 31.745 $\chi^2/\text{NDF}: 64.2/62$
 In: -73.898 ± 33.002 $\chi^2/\text{NDF}: 67.5/52$
 Out: -121.214 ± 32.572 $\chi^2/\text{NDF}: 89.8/57$
 All: -97.866 ± 23.182 $\chi^2/\text{NDF}: 158.3/110$

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 177.405 $\pm$ 0.032 χ^2 /NDF: 359796.8/29

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 181.433 $\pm$ 0.032 χ^2 /NDF: 497554.5/32

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

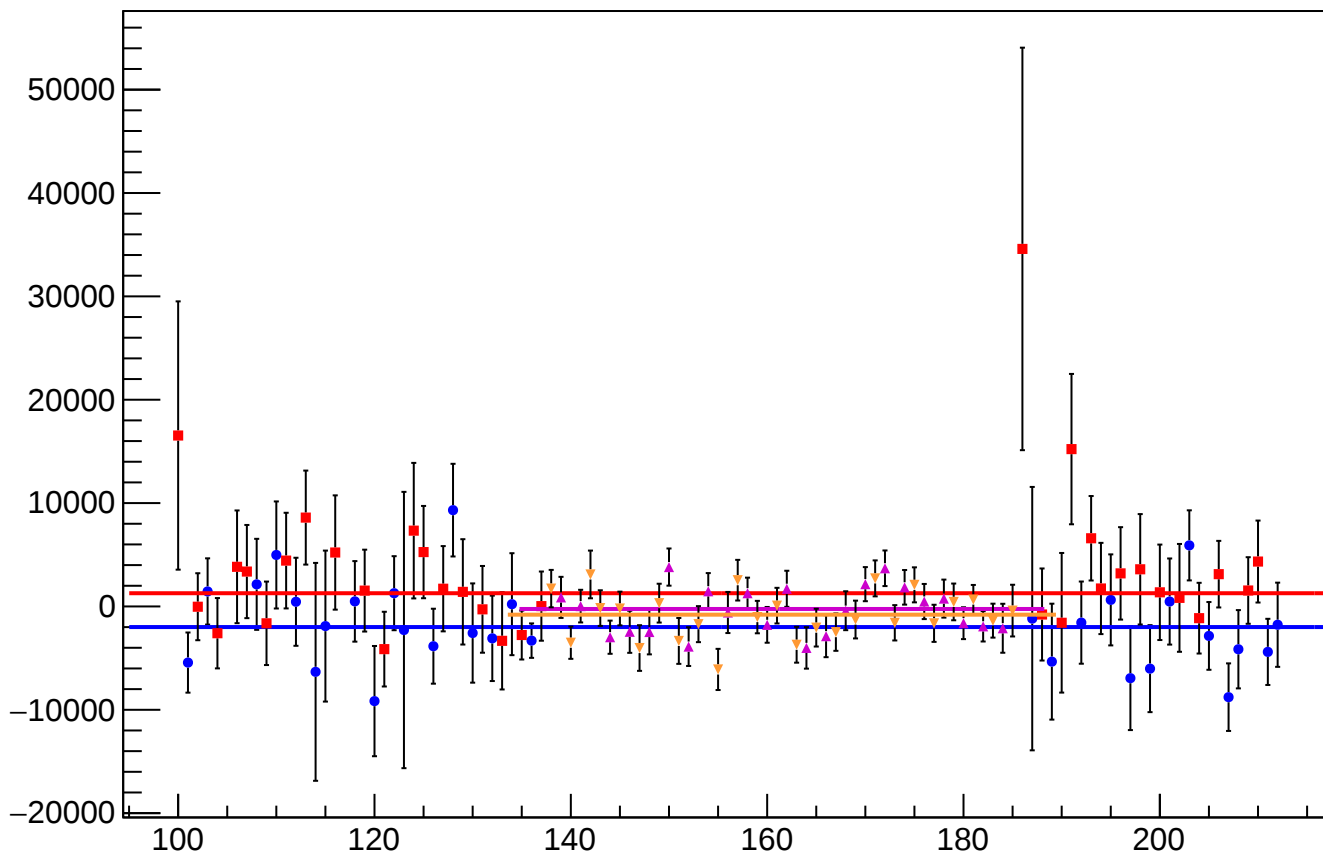
Right: 179.409 $\pm$ 0.022 χ^2 /NDF: 865399.9/62

In: 189.421 $\pm$ 0.023 χ^2 /NDF:811039.9/52

Out: 191.444 $\pm$ 0.023 χ^2 /NDF:864012.4/57

All: 190.446 $\pm$ 0.016 χ^2 /NDF: 1678862.3/110

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1994.628 $\pm$ 705.598 χ^2 /NDF: 30.0/29

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF:35.7/24

Right Out: 1278.838 $\pm$ 734.066 χ^2 /NDF: 25.9/32

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

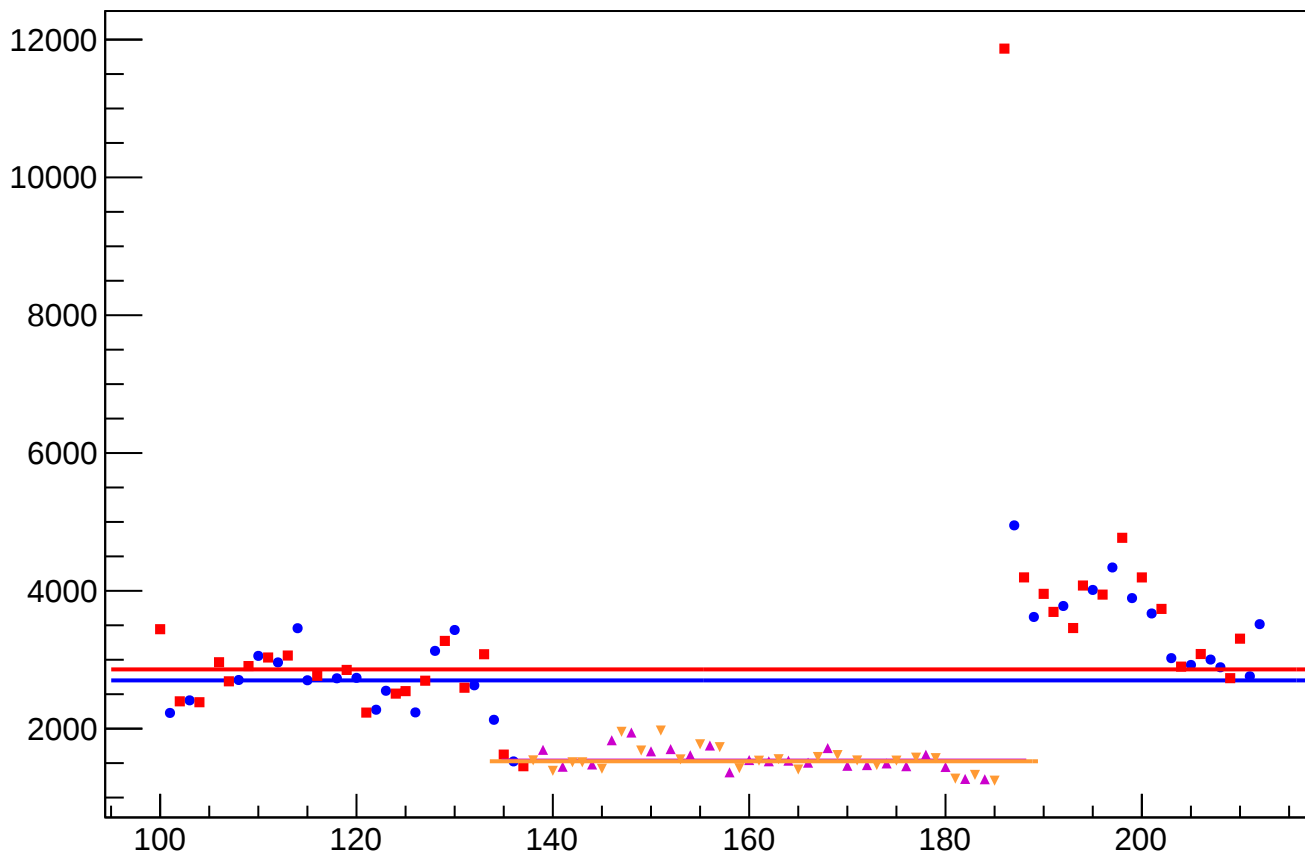
Right: -422.600 $\pm$ 508.700 χ^2 /NDF: 66.2/62

In: -622.175 $\pm$ 327.574 χ^2 /NDF:70.5/52

Out: -398.025 $\pm$ 321.665 χ^2 /NDF:68.1/57

All: -508.060 $\pm$ 229.512 χ^2 /NDF: 138.9/110

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2700.262+/-0.499 χ^2/NDF : 2300378.4/29

Left Out: 1526.712+/-0.253 χ^2/NDF : 394892.7/24

Right Out: 2859.964+/-0.519 χ^2/NDF : 2615907.5/32

Left In: 1536.538+/-0.262 χ^2/NDF : 350373.3/22

Left: 1531.463+/-0.182 χ^2/NDF : 745995.2/47

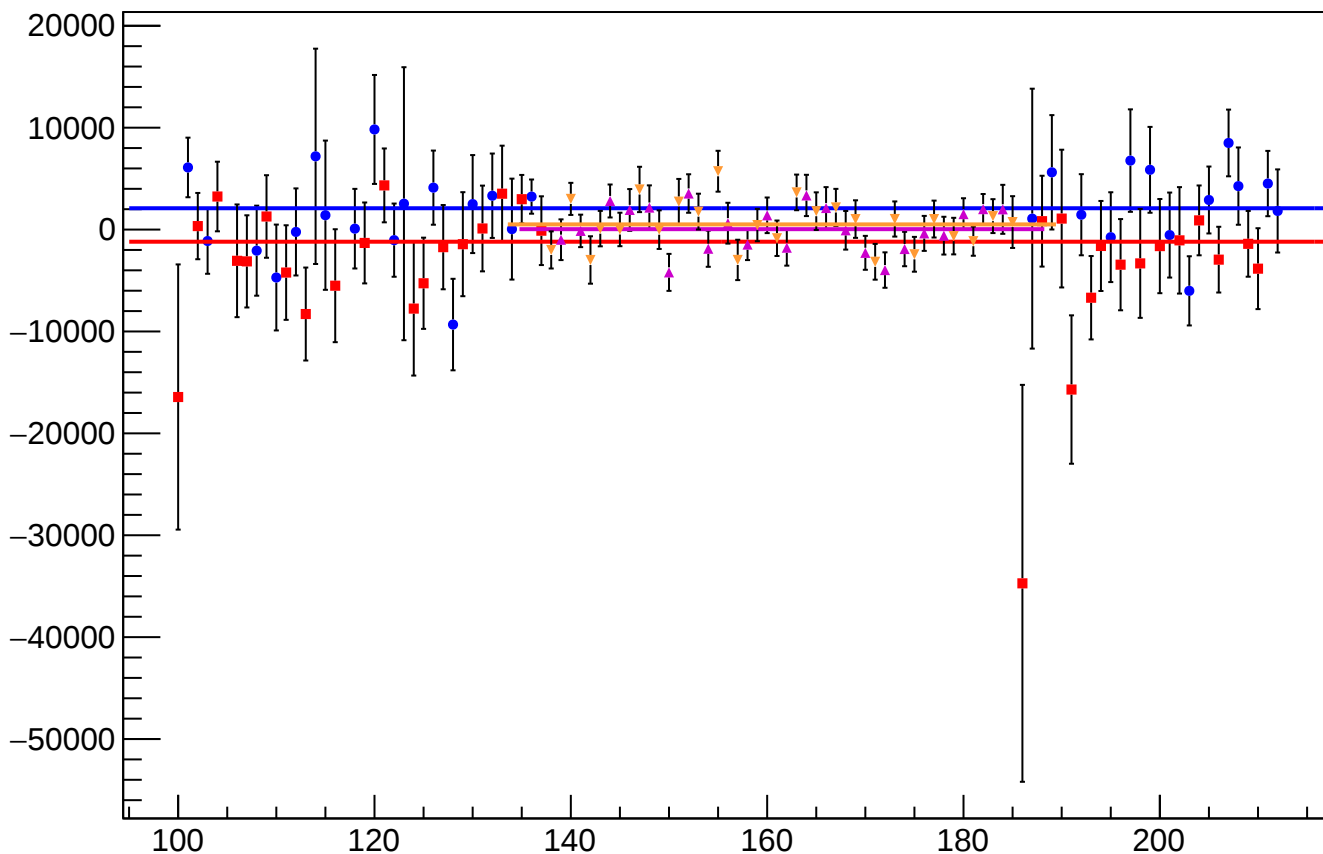
Right: 2776.956+/-0.360 χ^2/NDF : 4965488.3/62

In: 1787.353+/-0.232 χ^2/NDF : 6918437.6/52

Out: 1782.717+/-0.227 χ^2/NDF : 8341531.8/57

All: 1784.993+/-0.162 χ^2/NDF : 15260173.4/100

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2093.754+/-707.839 χ^2/NDF : 30.0/29

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -1191.320+/-736.270 χ^2/NDF : 26.4/32

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

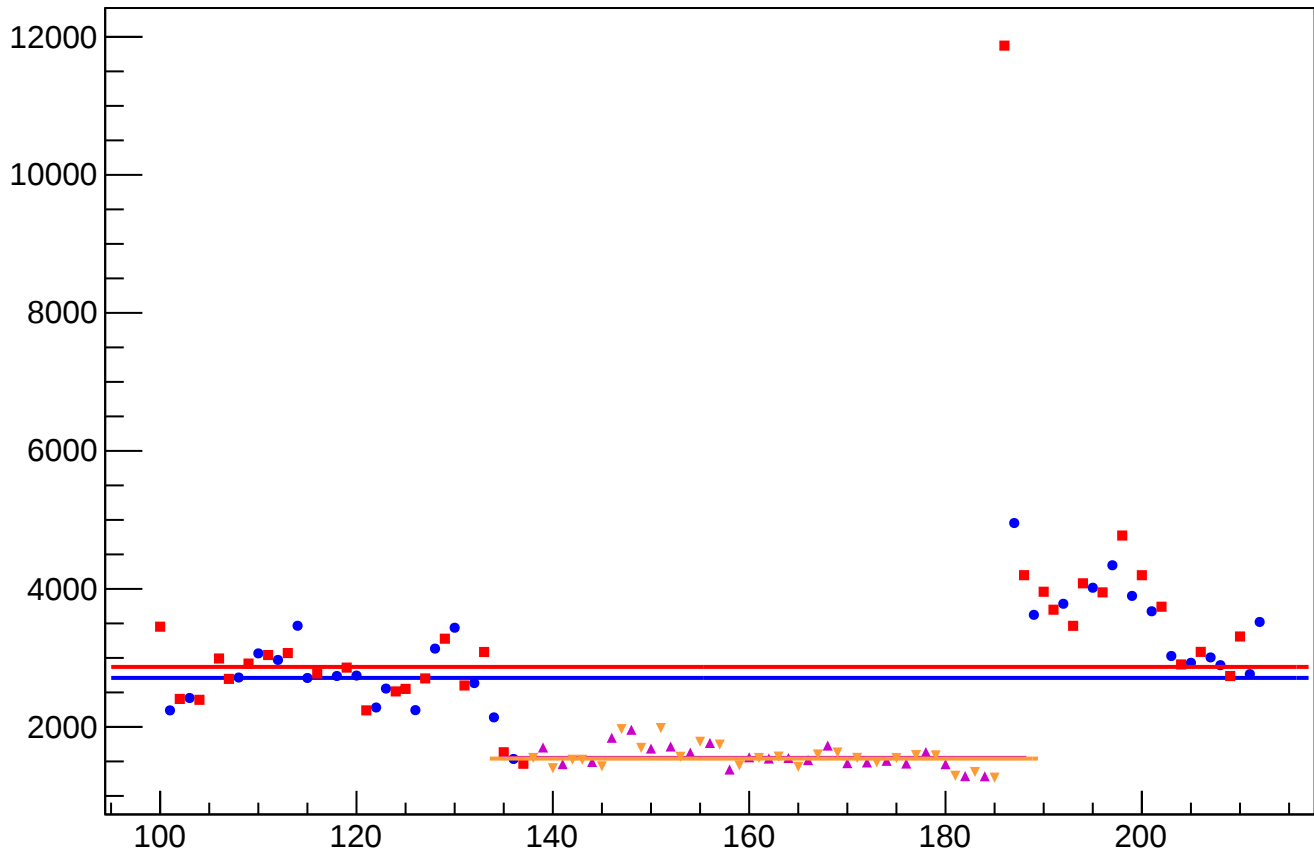
Right: 515.866+/-510.273 χ^2/NDF : 66.8/62

In: 486.900+/-330.168 χ^2/NDF : 70.2/52

Out: 178.385+/-324.260 χ^2/NDF : 66.1/57

All: 329.857+/-231.347 χ^2/NDF : 136.8/110

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2710.402 $\pm$ 0.501 χ^2 /NDF: 2268217.4/29

Left Out: 1541.258 $\pm$ 0.255 χ^2 /NDF: 382045.4/24

Right Out: 2869.540 $\pm$ 0.521 χ^2 /NDF: 2590381.4/32

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

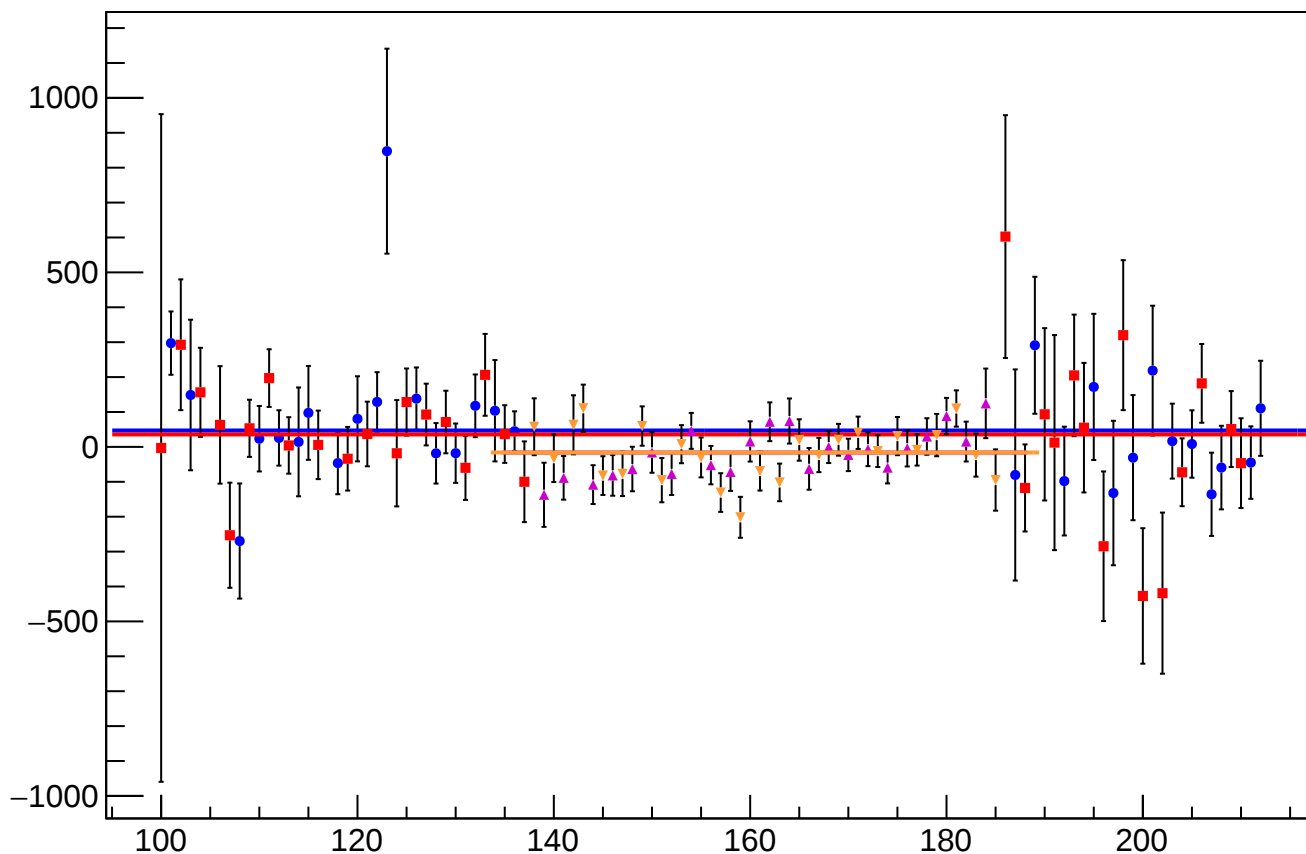
Right: 2786.839 $\pm$ 0.361 χ^2 /NDF: 4907154.6/62

In: 1803.302 $\pm$ 0.233 χ^2 /NDF: 6804959.6/52

Out: 1798.892 $\pm$ 0.229 χ^2 /NDF: 8219209.2/57

All: 1801.057 $\pm$ 0.164 χ^2 /NDF: 15024350.5/111

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 46.982 ± 20.280 $\chi^2/\text{NDF}: 33.5/29$

Left Out: -16.049 ± 11.340 $\chi^2/\text{NDF}: 39.7/24$

Right Out: 35.712 ± 20.605 $\chi^2/\text{NDF}: 39.5/32$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

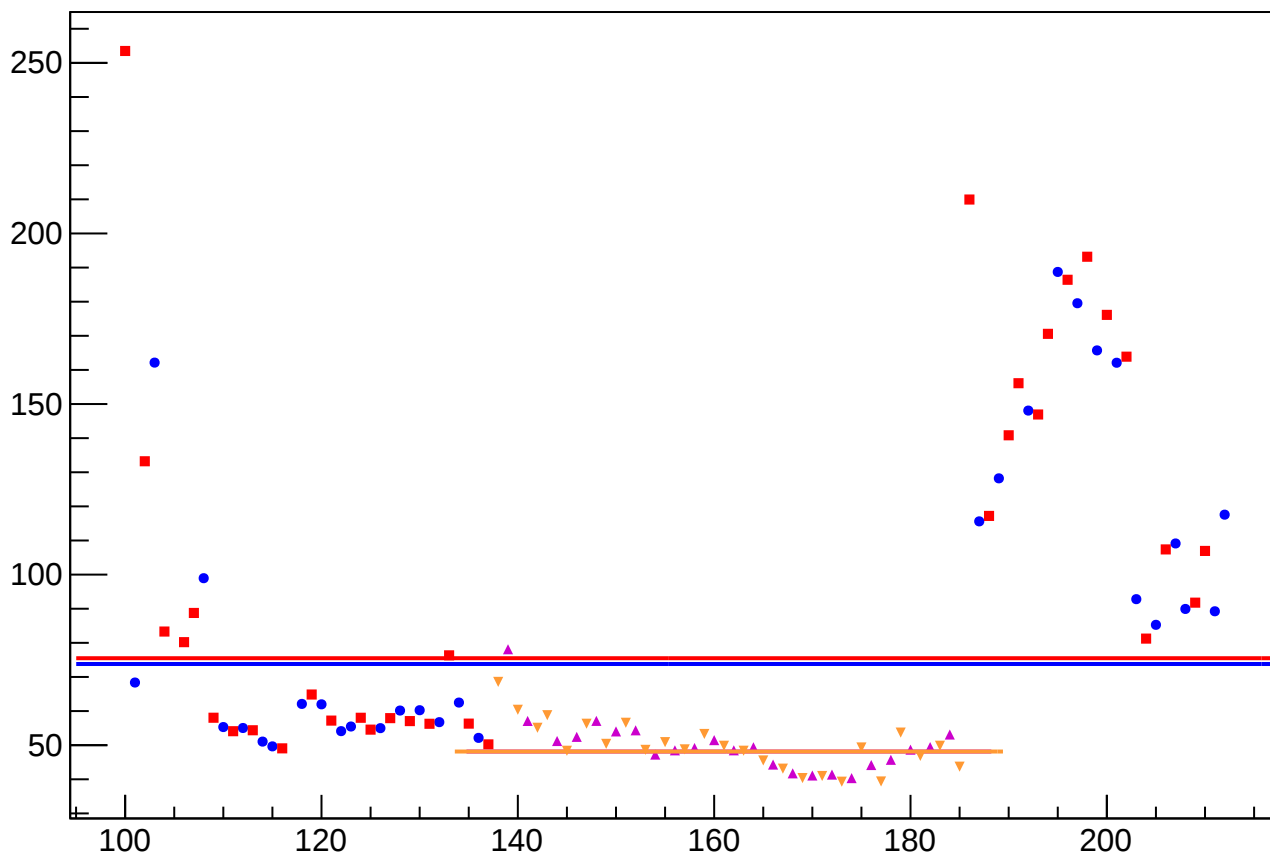
Right: 41.436 ± 14.454 $\chi^2/\text{NDF}: 73.1/62$

In: -0.496 ± 10.102 $\chi^2/\text{NDF}: 66.0/52$

Out: -4.016 ± 9.935 $\chi^2/\text{NDF}: 84.0/57$

All: -2.285 ± 7.083 $\chi^2/\text{NDF}: 150.0/110$

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 73.796 $\pm$ 0.014 χ^2 /NDF: 4716354.7/29

Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF: 655250.3/24

Right Out: 75.493 $\pm$ 0.015 χ^2 /NDF: 5429354.1/32

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

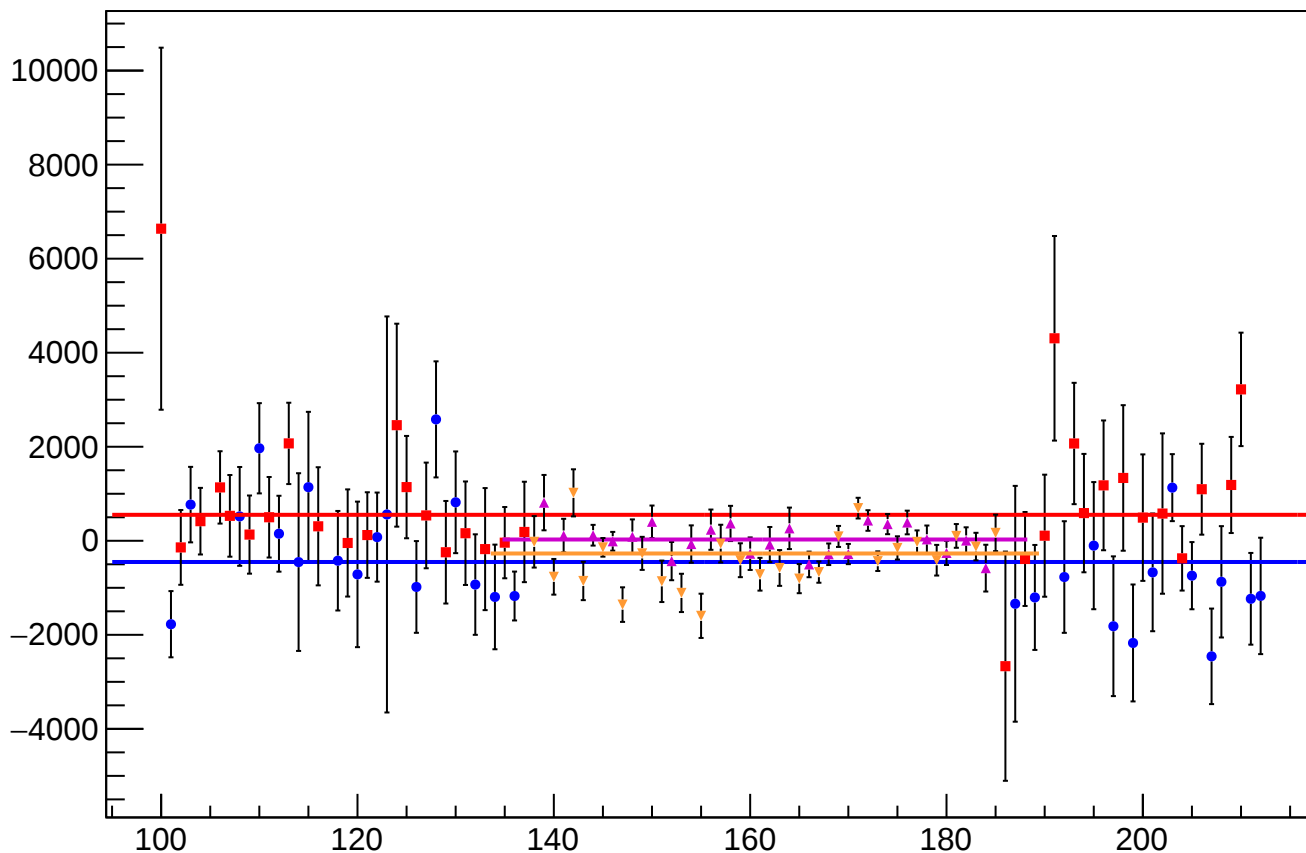
Right: 74.631 $\pm$ 0.010 χ^2 /NDF: 10152594.0/62

In: 54.505 $\pm$ 0.007 χ^2 /NDF: 7698285.7/52

Out: 54.499 $\pm$ 0.007 χ^2 /NDF: 8789636.9/57

All: 54.502 $\pm$ 0.005 χ^2 /NDF: 16487922.9/110

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -451.009 ± 184.235 χ^2/NDF : 38.9/29

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 552.296 ± 182.465 χ^2/NDF : 25.5/32

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

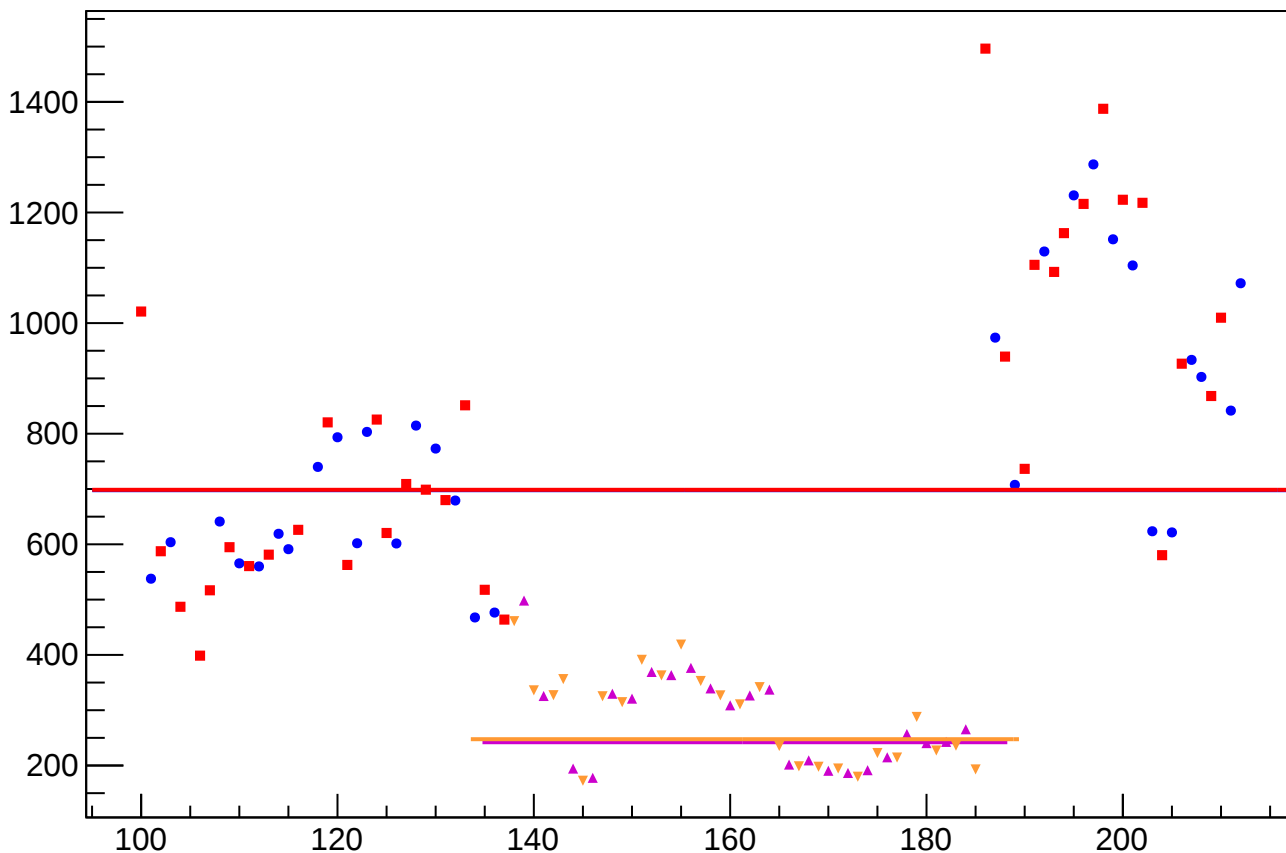
Right: 55.484 ± 129.643 χ^2/NDF : 79.4/62

In: -19.188 ± 57.420 χ^2/NDF : 70.0/52

Out: -189.526 ± 57.150 χ^2/NDF : 113.9/57

All: -104.759 ± 40.506 χ^2/NDF : 188.4/110

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 697.832 ± 0.130 $\chi^2/\text{NDF}: 2602876.2/29$

Left Out: 247.570 ± 0.043 $\chi^2/\text{NDF}: 2780931.0/24$

Right Out: 698.545 ± 0.129 $\chi^2/\text{NDF}: 3458701.1/32$

Left In: 242.117 ± 0.043 $\chi^2/\text{NDF}: 2466108.9/22$

Left: 244.855 ± 0.030 $\chi^2/\text{NDF}: 5255218.1/47$

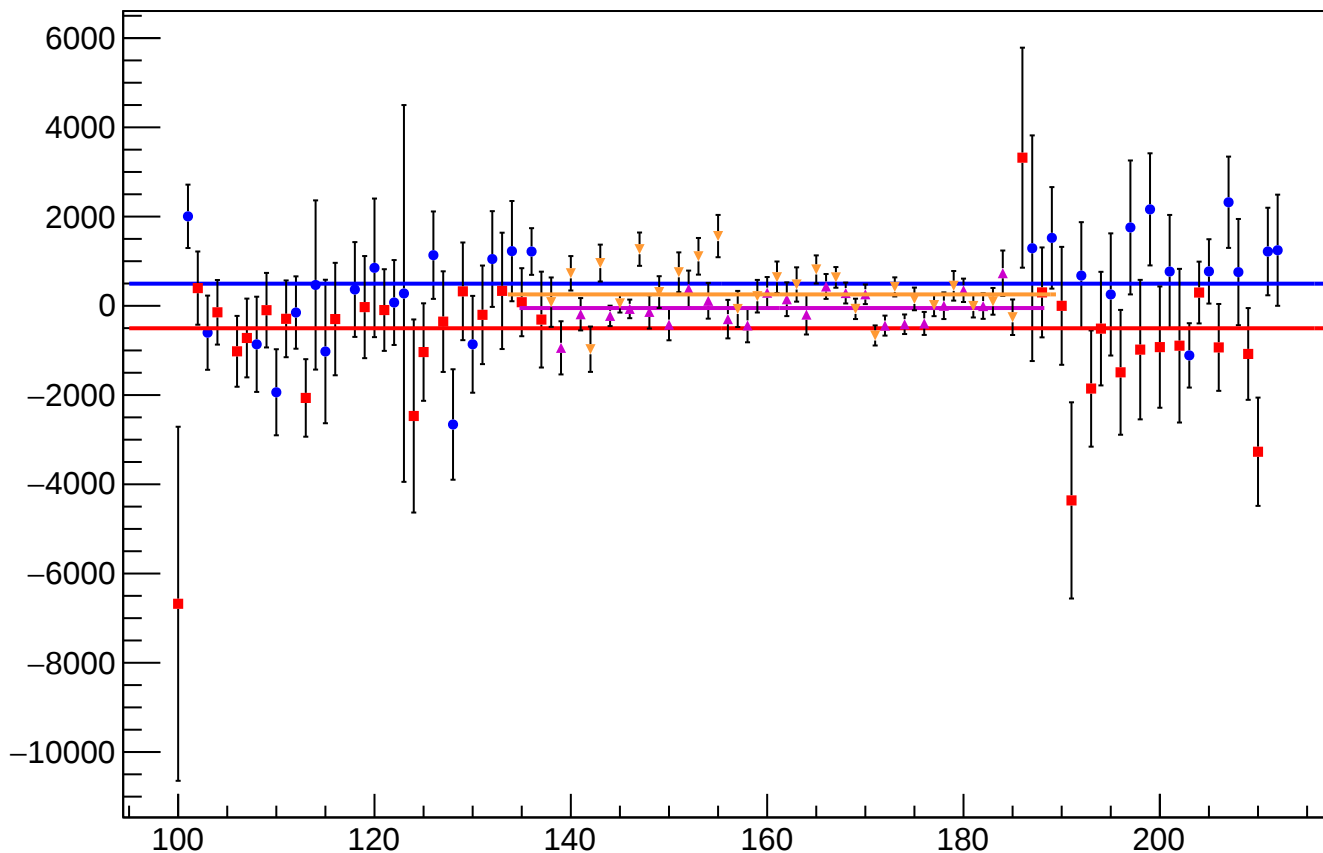
Right: 698.192 ± 0.092 $\chi^2/\text{NDF}: 6061592.4/62$

In: 286.384 ± 0.041 $\chi^2/\text{NDF}: 16117301.9/52$

Out: 291.811 ± 0.040 $\chi^2/\text{NDF}: 17258378.5/57$

All: 289.110 ± 0.029 $\chi^2/\text{NDF}: 33384654.6/111$

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 496.563 $\pm$ 185.904 χ^2 /NDF: 39.8/29

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF: 63.6/24

Right Out: -502.901 $\pm$ 184.453 χ^2 /NDF: 26.2/32

Left In: -49.832 $\pm$ 61.781 χ^2 /NDF: 27.5/22

Left: 103.982 $\pm$ 43.557 χ^2 /NDF: 103.4/47

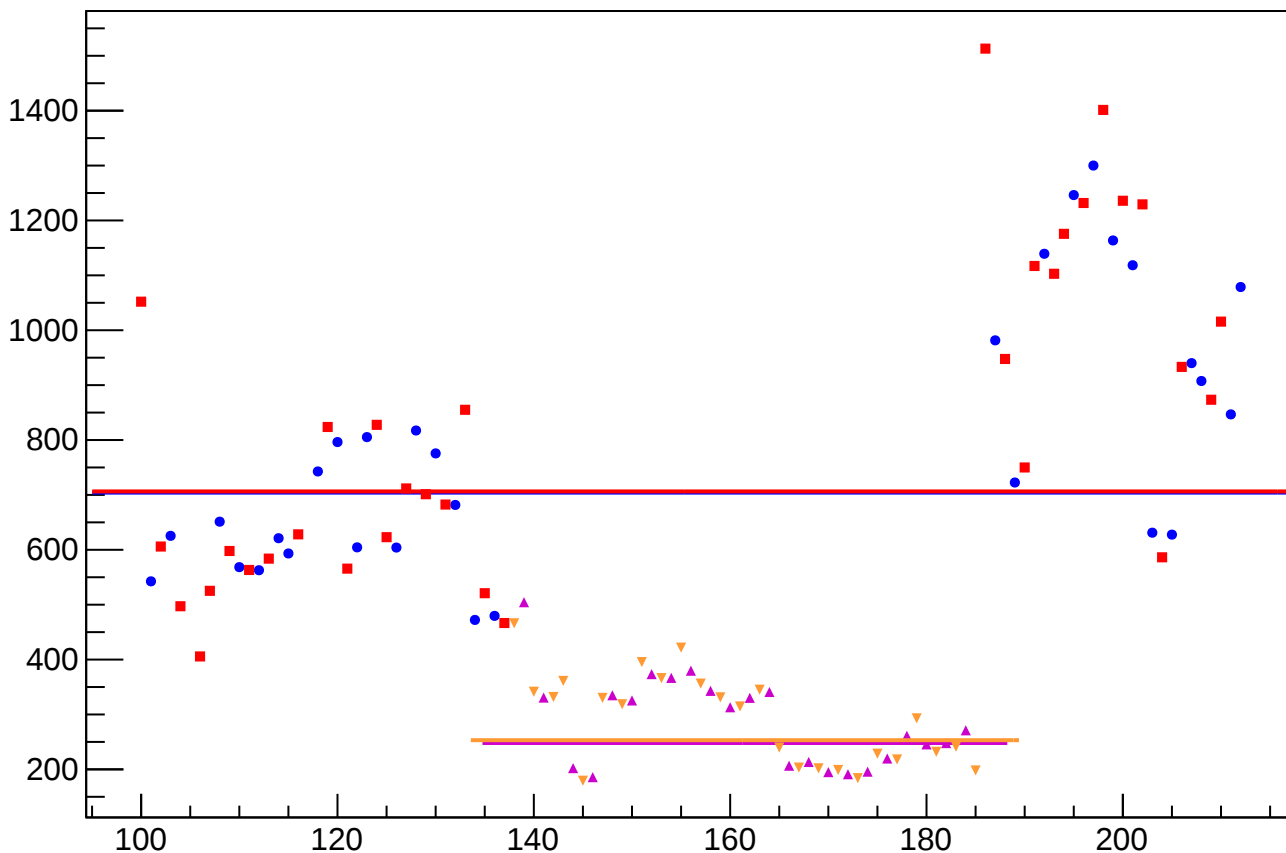
Right: -7.084 $\pm$ 130.938 χ^2 /NDF: 80.6/62

In: 4.511 $\pm$ 58.628 χ^2 /NDF: 75.2/52

Out: 180.252 $\pm$ 58.273 χ^2 /NDF: 105.0/57

All: 92.916 $\pm$ 41.330 χ^2 /NDF: 184.7/110

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 704.208 $\pm$ 0.131 χ^2 /NDF: 2602974.7/29

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF:2665975.8/24

Right Out: 706.339 $\pm$ 0.130 χ^2 /NDF: 3426104.5/32

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

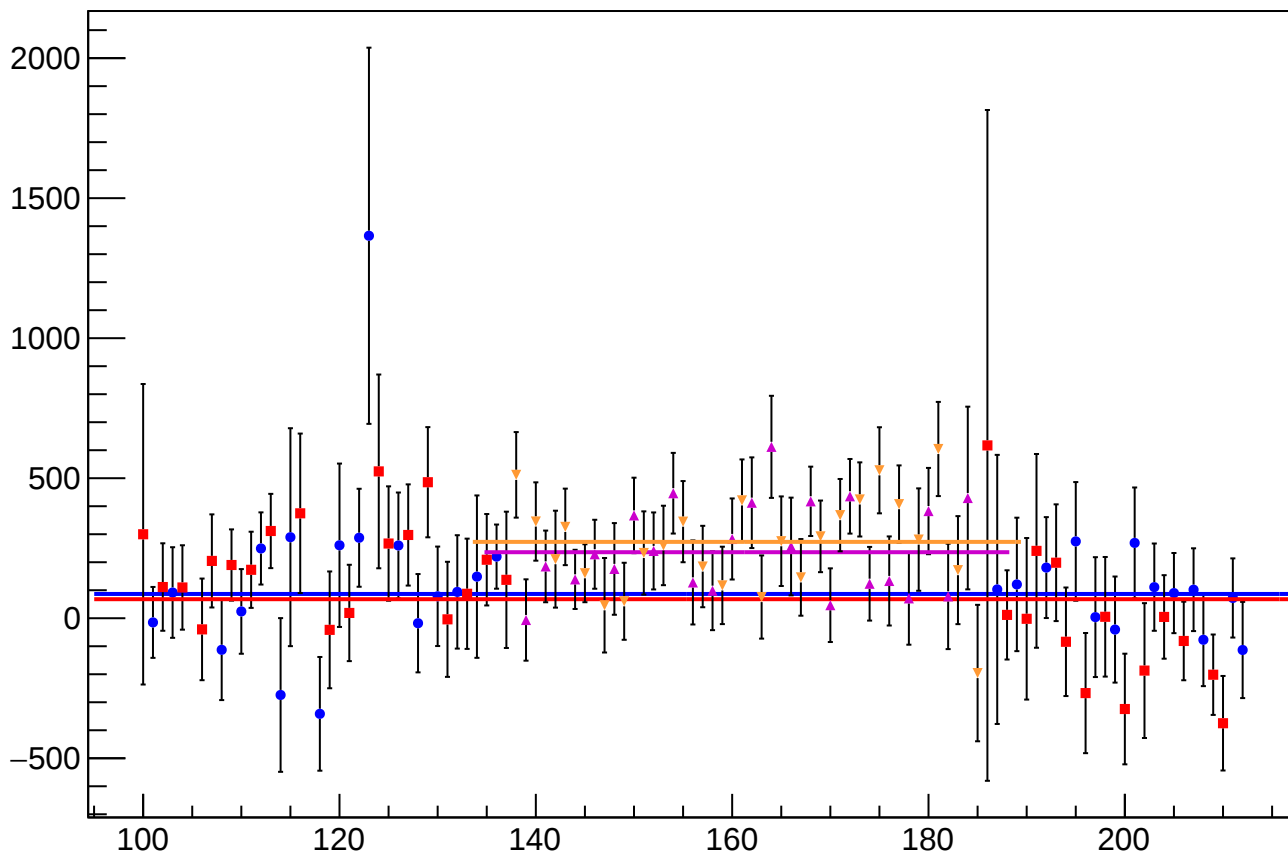
Right: 705.282 $\pm$ 0.093 χ^2 /NDF: 6029211.7/62

In: 293.435 $\pm$ 0.041 χ^2 /NDF:15789307.6/52

Out: 298.369 $\pm$ 0.041 χ^2 /NDF:16960761.0/57

All: 295.917 $\pm$ 0.029 χ^2 /NDF: 32757195.4/11

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 86.713+/-32.660 χ^2/NDF : 22.9/29

Left Out: 272.684+/-29.221 χ^2/NDF :27.4/24

Right Out: 67.986+/-32.179 χ^2/NDF : 38.5/32

Left In: 235.801+/-30.232 χ^2/NDF :24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

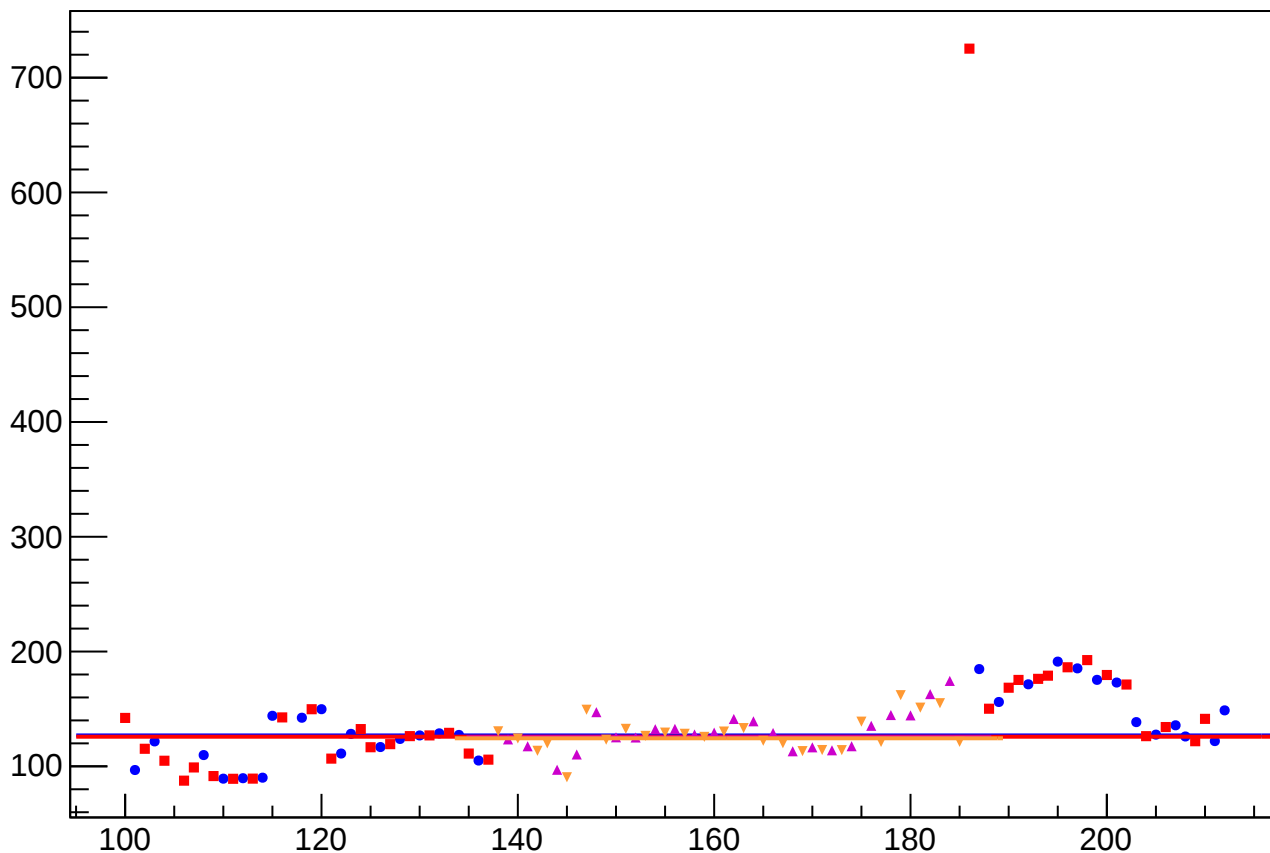
Right: 77.211+/-22.922 χ^2/NDF : 61.6/62

In: 167.005+/-22.186 χ^2/NDF :58.7/52

Out: 180.174+/-21.633 χ^2/NDF :88.1/57

All: 173.756+/-15.489 χ^2/NDF : 147.0/110

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 126.912 $\pm$ 0.023 χ^2 /NDF: 1390992.6/29

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 125.804 $\pm$ 0.023 χ^2 /NDF: 2228500.6/32

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

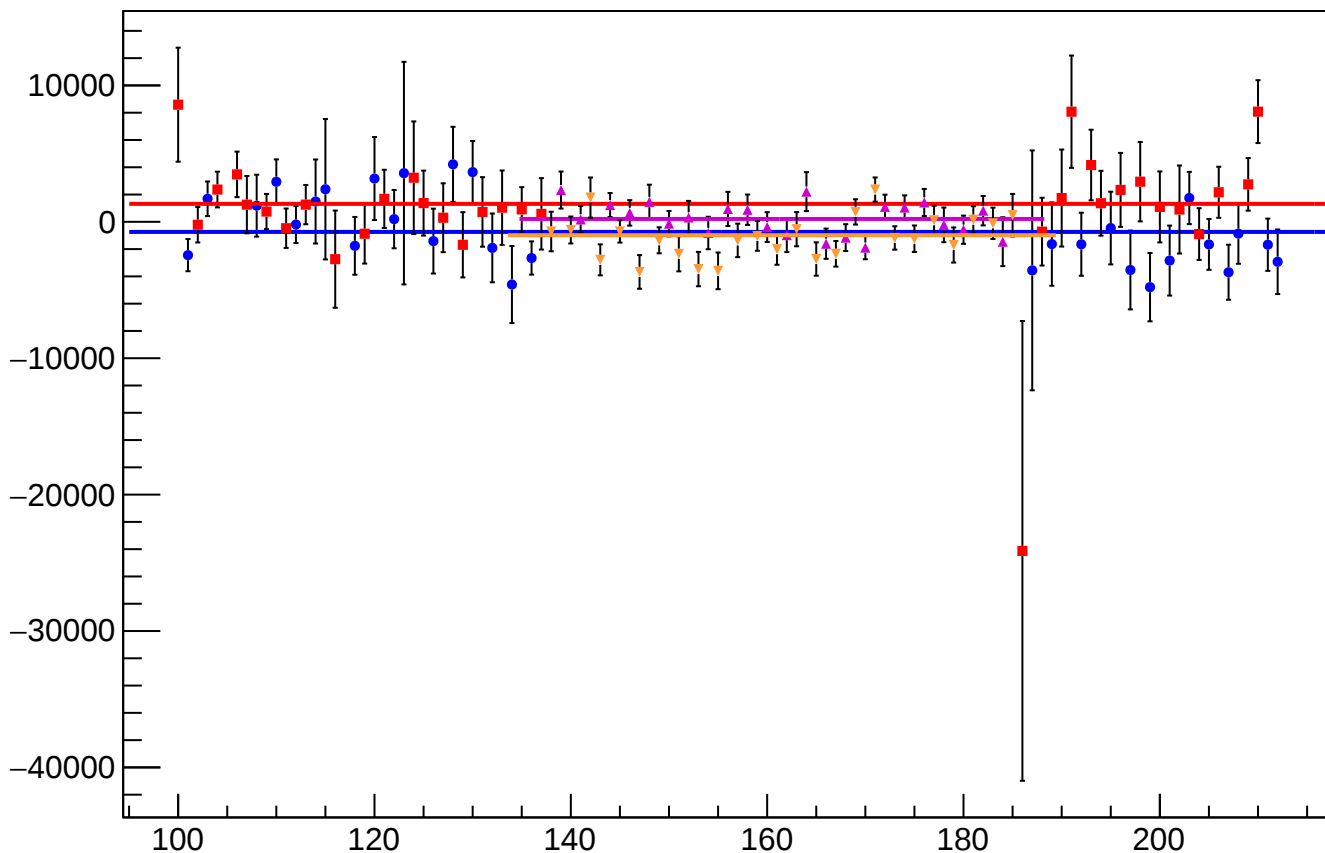
Right: 126.350 $\pm$ 0.016 χ^2 /NDF: 3620662.6/62

In: 125.993 $\pm$ 0.016 χ^2 /NDF: 1895323.9/52

Out: 125.050 $\pm$ 0.015 χ^2 /NDF: 2770233.7/57

All: 125.510 $\pm$ 0.011 χ^2 /NDF: 4667408.9/110

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -739.332+/-379.289 χ^2/NDF : 36.2/29

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 1317.150+/-367.278 χ^2/NDF : 31.0/32

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

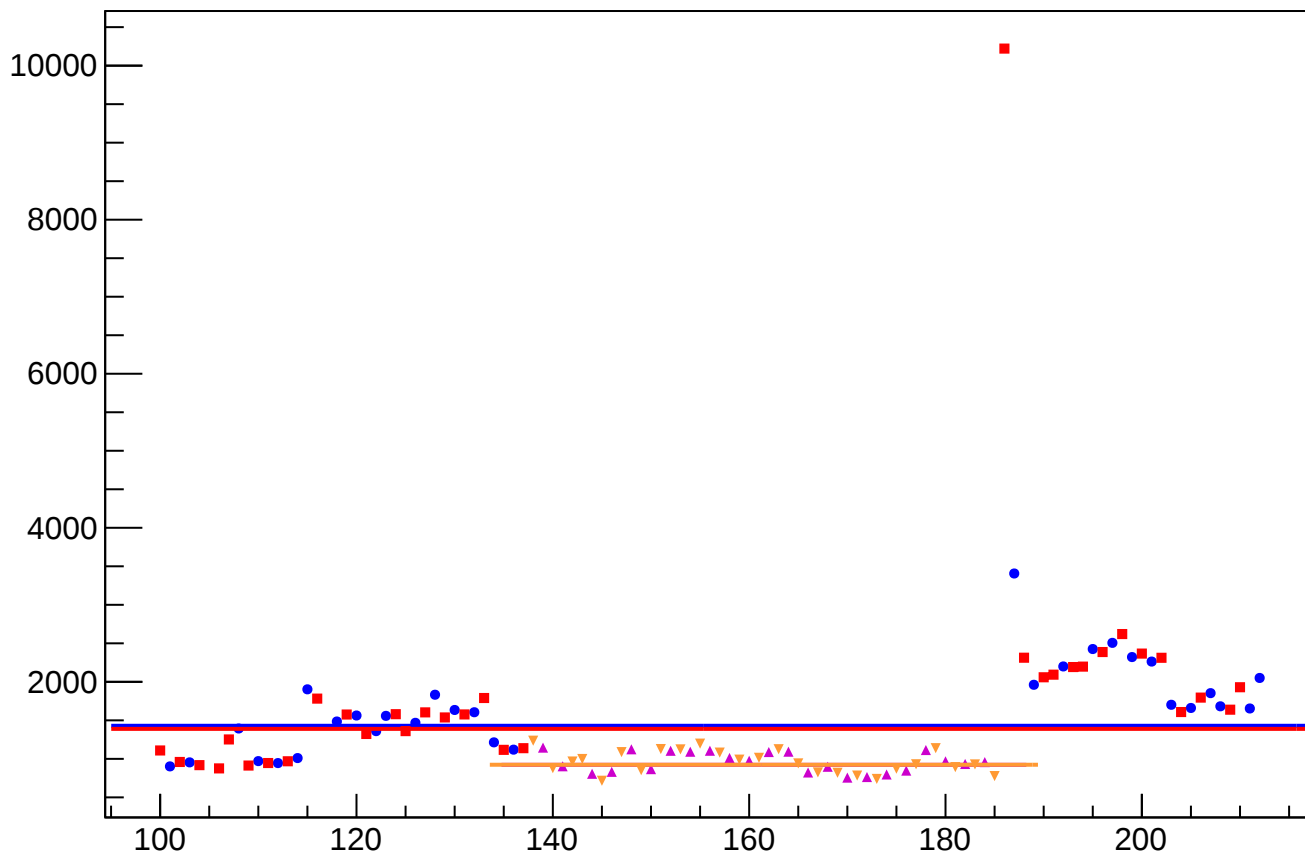
Right: 321.987+/-263.849 χ^2/NDF : 82.4/62

In: -33.290+/-192.426 χ^2/NDF : 66.5/52

Out: -383.552+/-187.478 χ^2/NDF : 107.2/57

All: -212.982+/-134.282 χ^2/NDF : 175.4/110

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1429.437+/-0.268 χ^2/NDF : 3119112.1/29

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1389.376+/-0.260 χ^2/NDF : 4228135.1/32

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

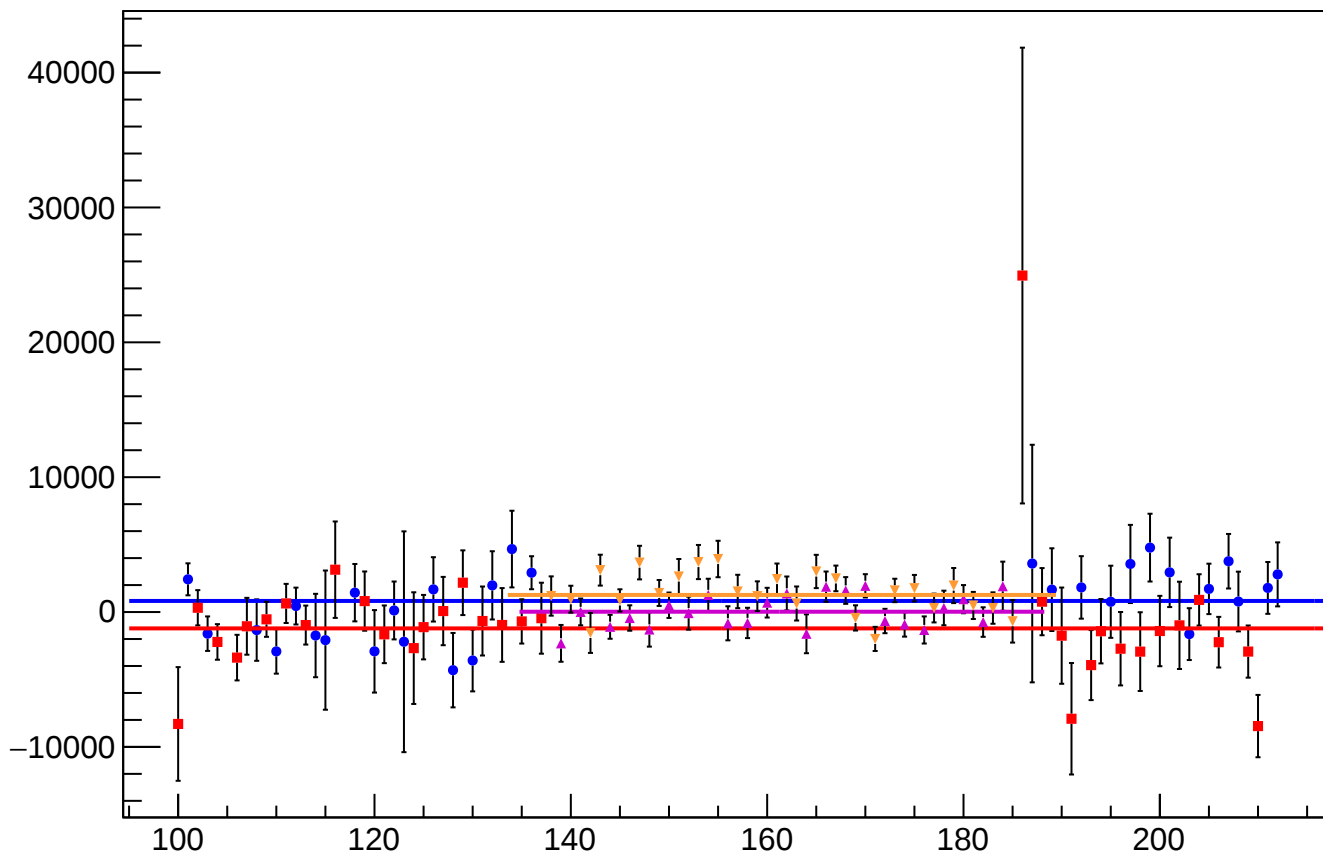
Right: 1408.762+/-0.187 χ^2/NDF : 7358762.1/62

In: 1052.789+/-0.136 χ^2/NDF : 6409630.1/52

Out: 1044.953+/-0.133 χ^2/NDF : 7449494.3/57

All: 1048.769+/-0.095 χ^2/NDF : 13860826.0/111

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 823.033+/-380.907 χ^2/NDF : 36.0/29

Left Out: 1267.344+/-220.133 χ^2/NDF :44.9/24

Right Out: -1212.903+/-369.024 χ^2/NDF : 32.9/32

Left In: 23.478+/-225.490 χ^2/NDF :27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

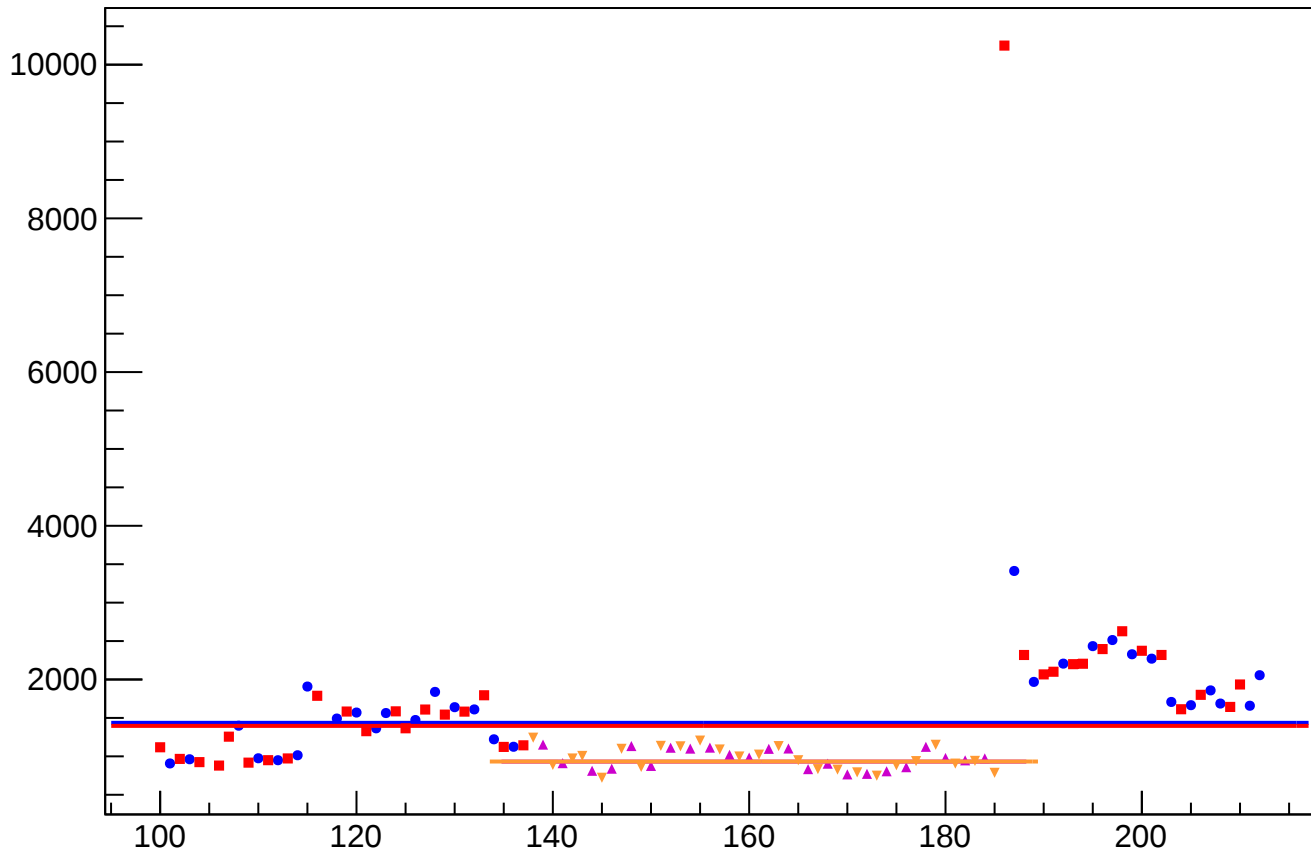
Right: -227.188+/-265.041 χ^2/NDF : 83.7/62

In: 230.964+/-194.039 χ^2/NDF :66.4/52

Out: 616.395+/-189.052 χ^2/NDF :111.2/57

All: 428.697+/-135.409 χ^2/NDF : 179.6/110

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1436.082+/-0.269 χ^2/NDF : 3098806.0/29

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1396.397+/-0.261 χ^2/NDF : 4203638.0/32

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

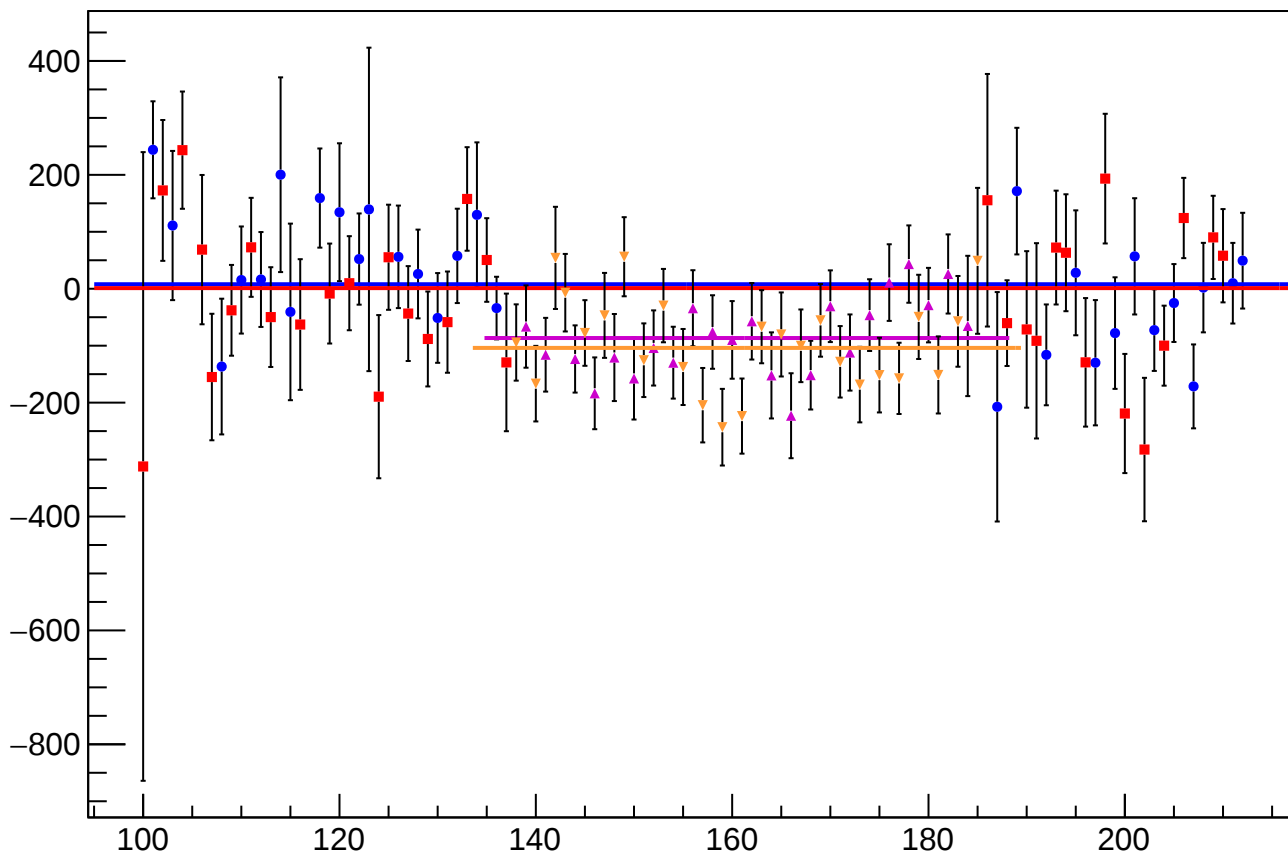
Right: 1415.611+/-0.187 χ^2/NDF : 7313642.6/62

In: 1062.435+/-0.137 χ^2/NDF : 6322152.9/52

Out: 1054.446+/-0.134 χ^2/NDF : 7361842.3/57

All: 1058.336+/-0.096 χ^2/NDF : 13685734.4/111

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 7.901 ± 16.552 χ^2/NDF : 34.1/29

Left Out: -103.899 ± 13.642 χ^2/NDF : 30.0/24

Right Out: 1.087 ± 16.761 χ^2/NDF : 43.6/32

Left In: -86.542 ± 14.120 χ^2/NDF : 21.4/22

Left: -95.520 ± 9.811 χ^2/NDF : 52.1/47

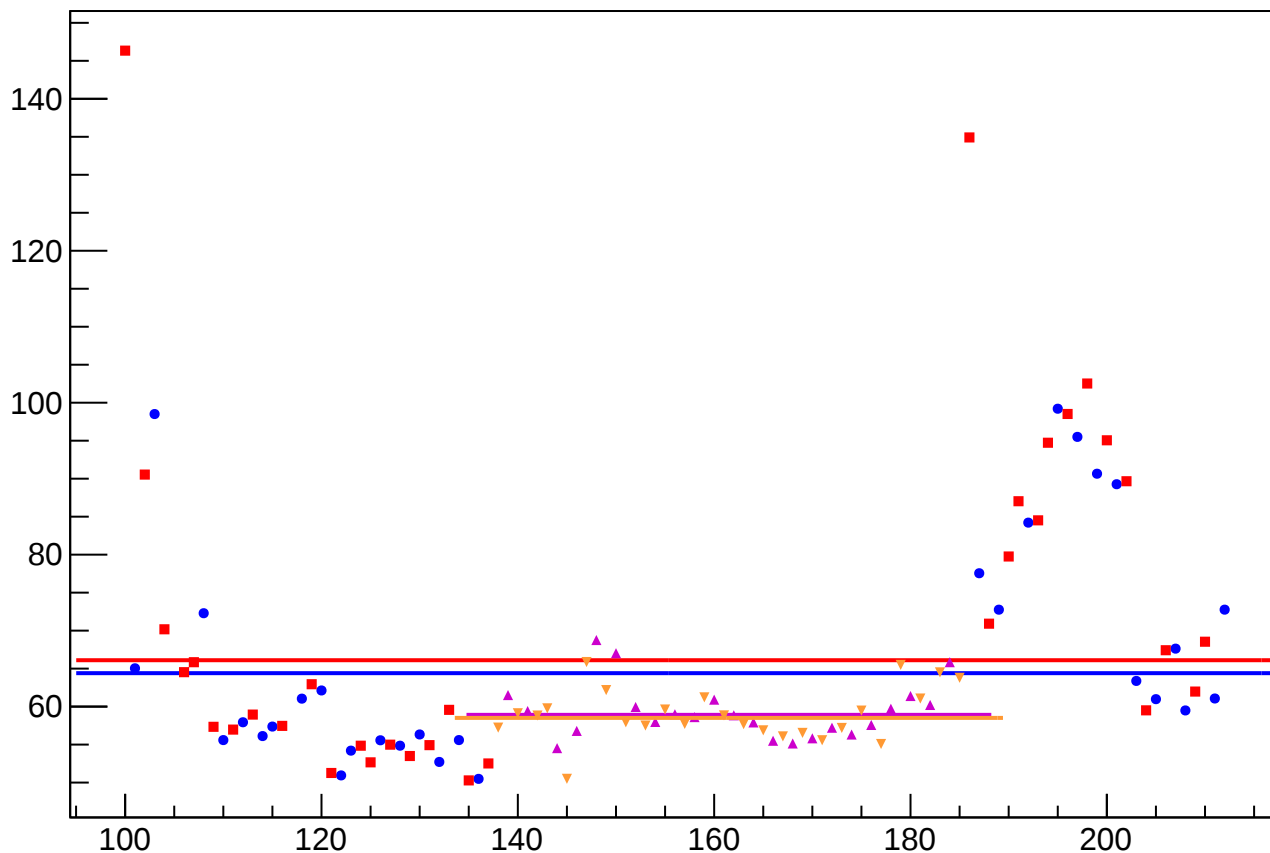
Right: 4.537 ± 11.777 χ^2/NDF : 77.7/62

In: -46.762 ± 10.742 χ^2/NDF : 74.3/52

Out: -62.065 ± 10.581 χ^2/NDF : 97.1/57

All: -54.529 ± 7.538 χ^2/NDF : 172.5/110

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.401 $\pm$ 0.012 χ^2 /NDF: 1278169.5/29

Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF:123221.6/24

Right Out: 66.105 $\pm$ 0.012 χ^2 /NDF: 1650765.1/32

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

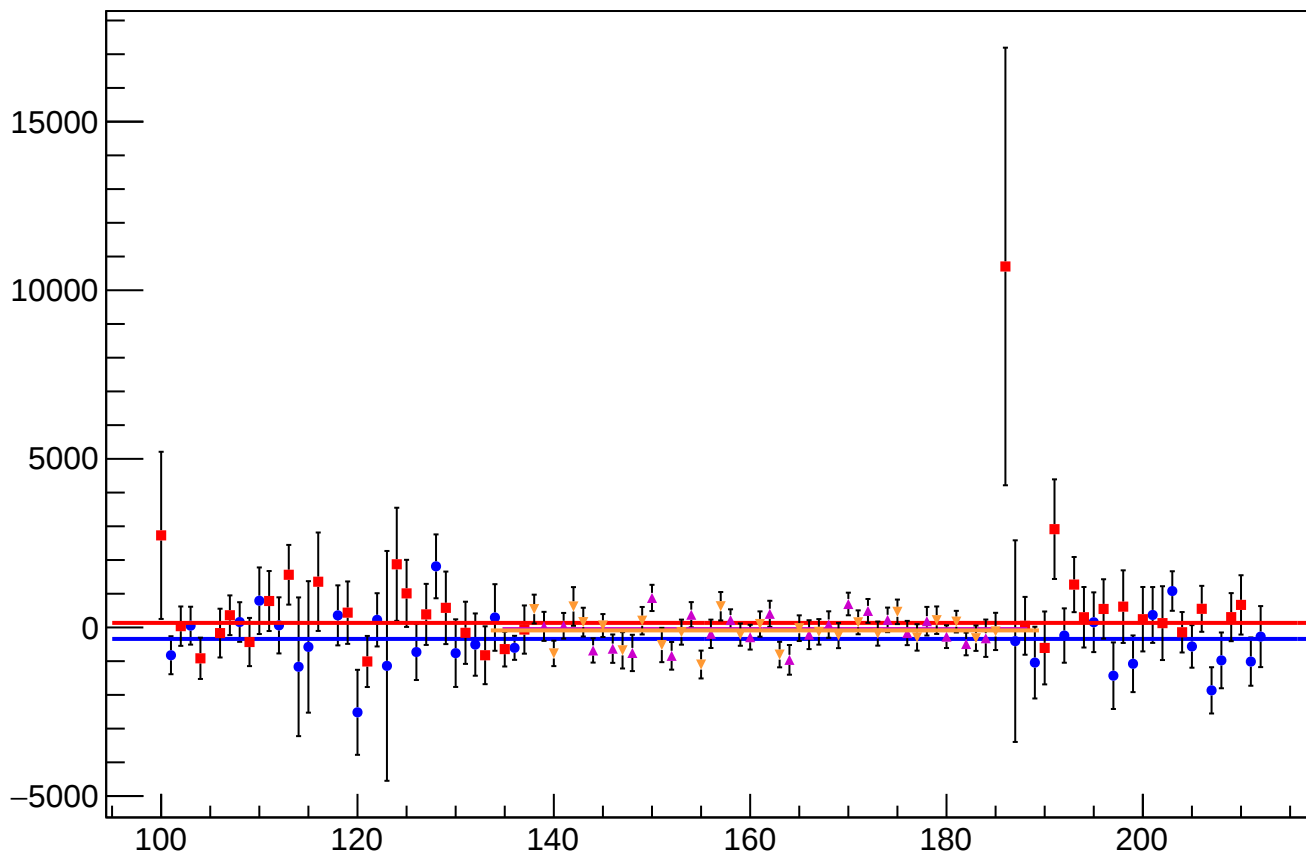
Right: 65.242 $\pm$ 0.008 χ^2 /NDF: 2939400.1/62

In: 61.225 $\pm$ 0.008 χ^2 /NDF:1515362.8/52

Out: 61.538 $\pm$ 0.007 χ^2 /NDF:2020788.9/57

All: 61.384 $\pm$ 0.005 χ^2 /NDF: 3537015.6/110

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -340.255 ± 142.427 χ^2/NDF : 30.3/29

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 135.144 ± 144.561 χ^2/NDF : 27.1/32

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

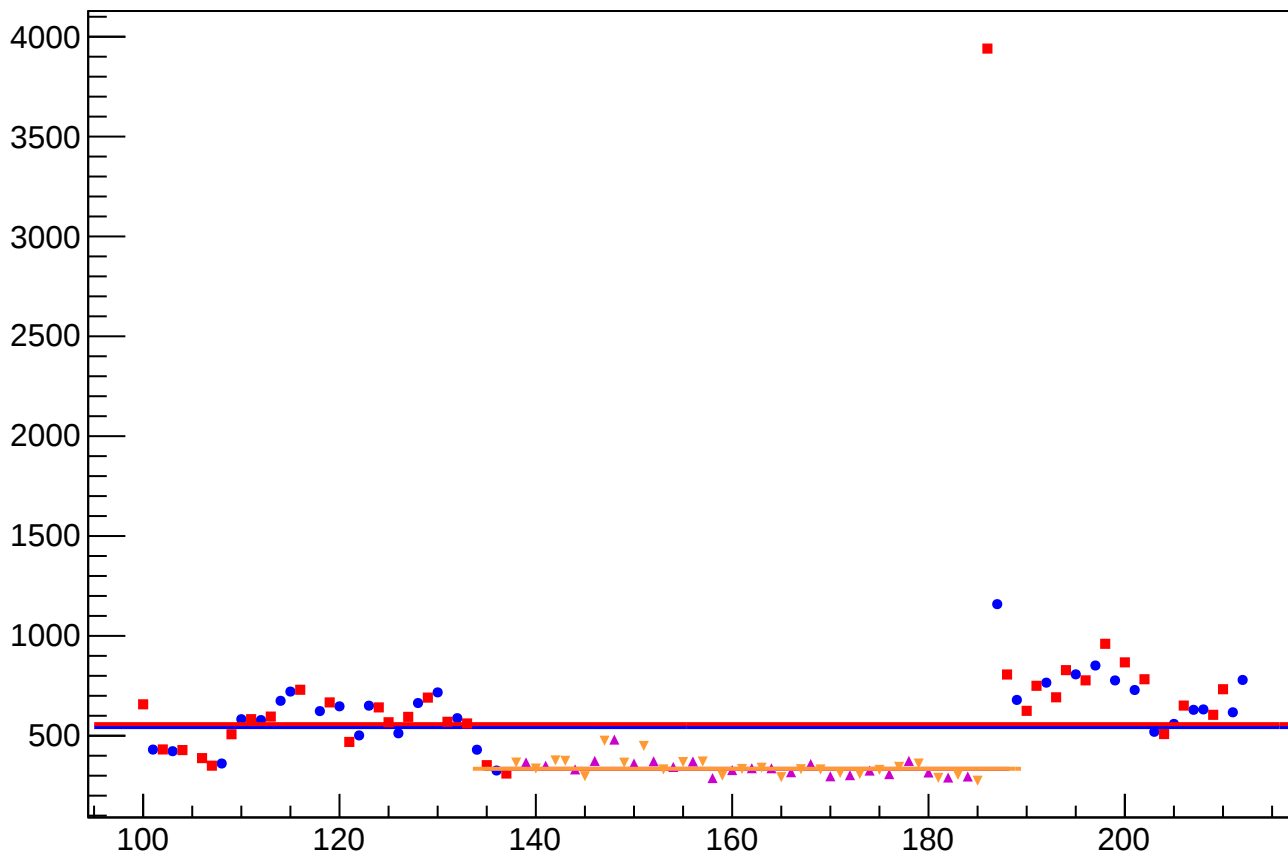
Right: -106.089 ± 101.457 χ^2/NDF : 62.9/62

In: -119.383 ± 70.112 χ^2/NDF : 68.8/52

Out: -36.710 ± 69.023 χ^2/NDF : 56.7/57

All: -77.400 ± 49.187 χ^2/NDF : 126.2/110

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 543.355+/-0.101 χ^2/NDF : 2419981.7/29

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 558.175+/-0.102 χ^2/NDF : 3066139.6/32

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

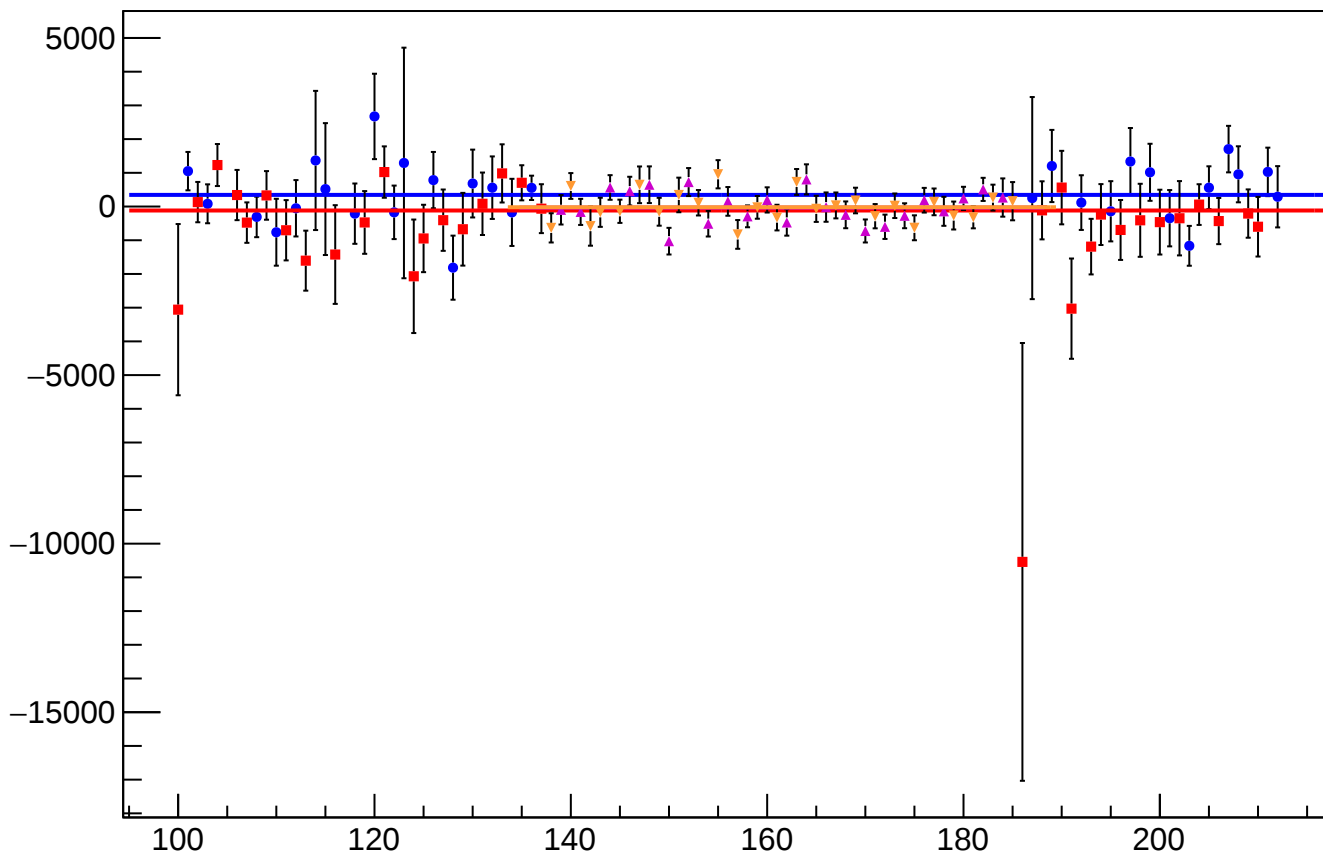
Right: 550.655+/-0.072 χ^2/NDF : 5496787.3/62

In: 384.843+/-0.050 χ^2/NDF : 6086698.1/52

Out: 385.685+/-0.049 χ^2/NDF : 7245826.0/57

All: 385.271+/-0.035 χ^2/NDF : 13332670.5/111

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 345.333 ± 143.796 χ^2/NDF : 30.4/29

Left Out: -20.895 ± 79.812 χ^2/NDF : 27.2/24

Right Out: -117.541 ± 146.024 χ^2/NDF : 30.1/32

Left In: -31.800 ± 81.839 χ^2/NDF : 34.0/22

Left: -26.211 ± 57.139 χ^2/NDF : 61.3/47

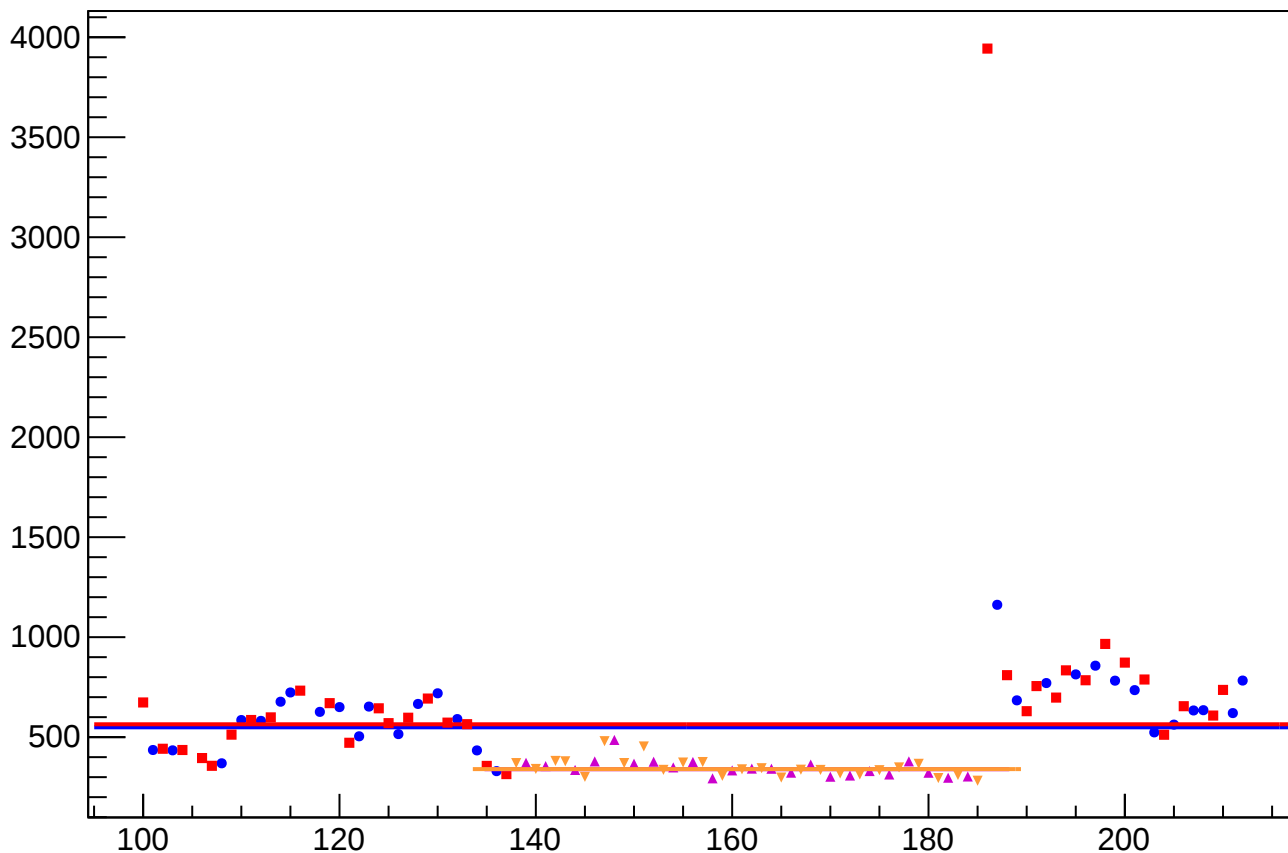
Right: 117.453 ± 102.458 χ^2/NDF : 65.6/62

In: 60.471 ± 71.127 χ^2/NDF : 69.7/52

Out: -43.126 ± 70.034 χ^2/NDF : 57.6/57

All: 7.870 ± 49.903 χ^2/NDF : 128.3/110

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 549.237+/-0.102 χ^2/NDF : 2353720.8/29

Left Out: 340.238+/-0.056 χ^2/NDF : 468863.6/24

Right Out: 564.409+/-0.103 χ^2/NDF : 2997230.2/32

Left In: 339.621+/-0.058 χ^2/NDF : 379808.1/22

Left: 339.937+/-0.040 χ^2/NDF : 848729.8/47

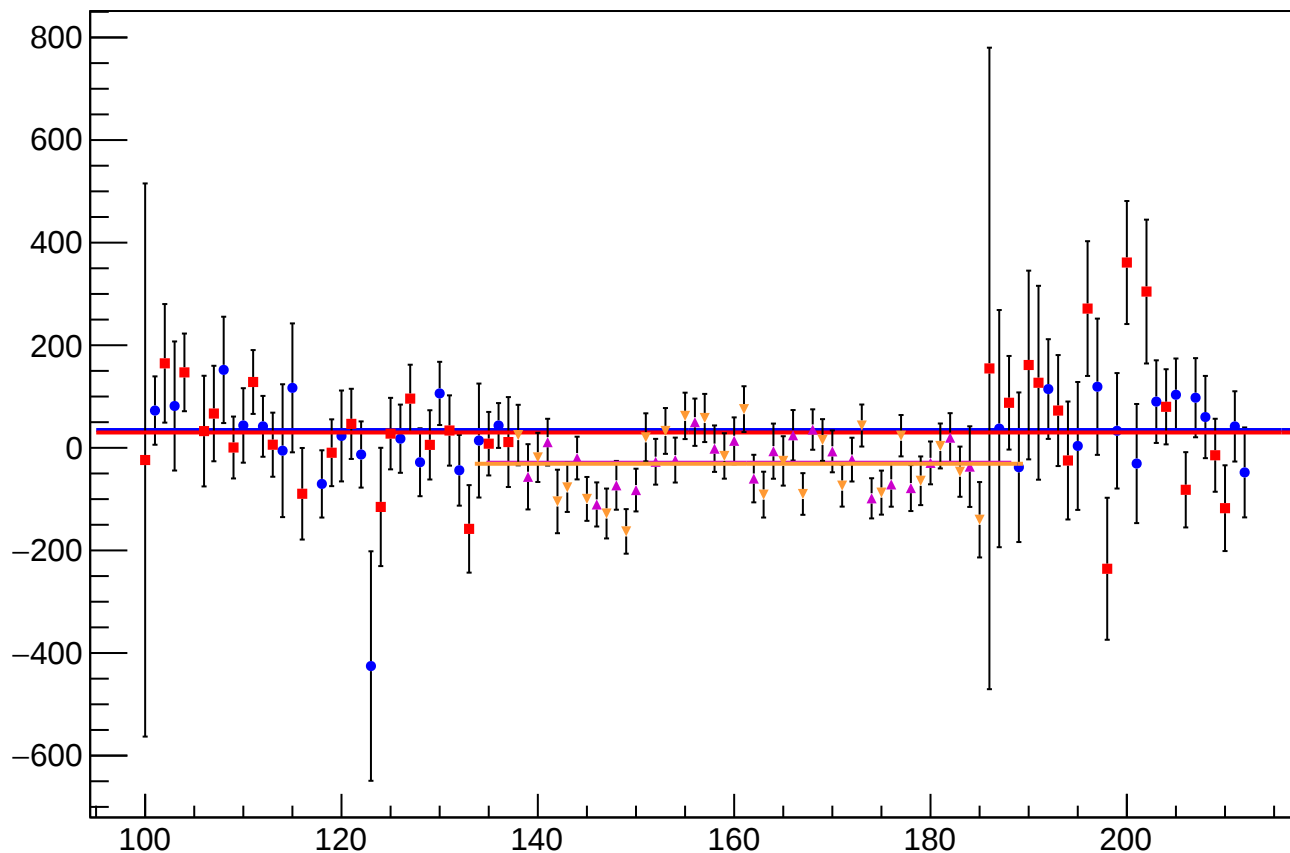
Right: 556.706+/-0.072 χ^2/NDF : 5361912.8/62

In: 390.906+/-0.050 χ^2/NDF : 5943656.9/52

Out: 391.801+/-0.050 χ^2/NDF : 7095379.8/57

All: 391.361+/-0.035 χ^2/NDF : 13039197.5/111

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 34.713+/-14.748 χ^2/NDF : 18.1/29

Left Out: -31.063+/-9.170 χ^2/NDF : 52.6/24

Right Out: 29.907+/-14.786 χ^2/NDF : 43.2/32

Left In: -29.055+/-9.449 χ^2/NDF : 22.4/22

Left: -30.089+/-6.581 χ^2/NDF : 75.1/47

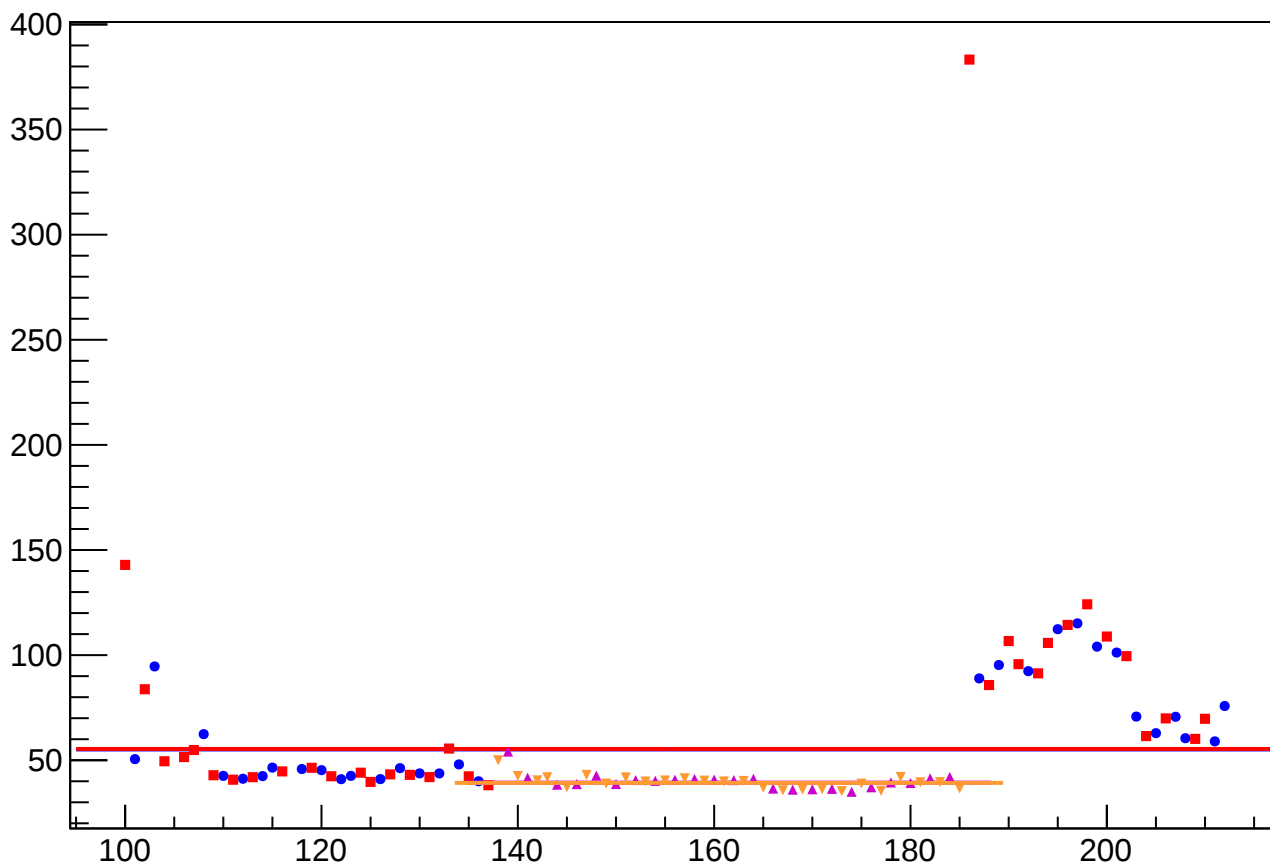
Right: 32.317+/-10.442 χ^2/NDF : 61.4/62

In: -10.495+/-7.956 χ^2/NDF : 53.8/52

Out: -14.128+/-7.793 χ^2/NDF : 108.1/57

All: -12.349+/-5.567 χ^2/NDF : 162.0/110

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 55.142 $\pm$ 0.010 χ^2 /NDF: 3396721.1/29

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 55.362 $\pm$ 0.010 χ^2 /NDF: 4390712.1/32

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

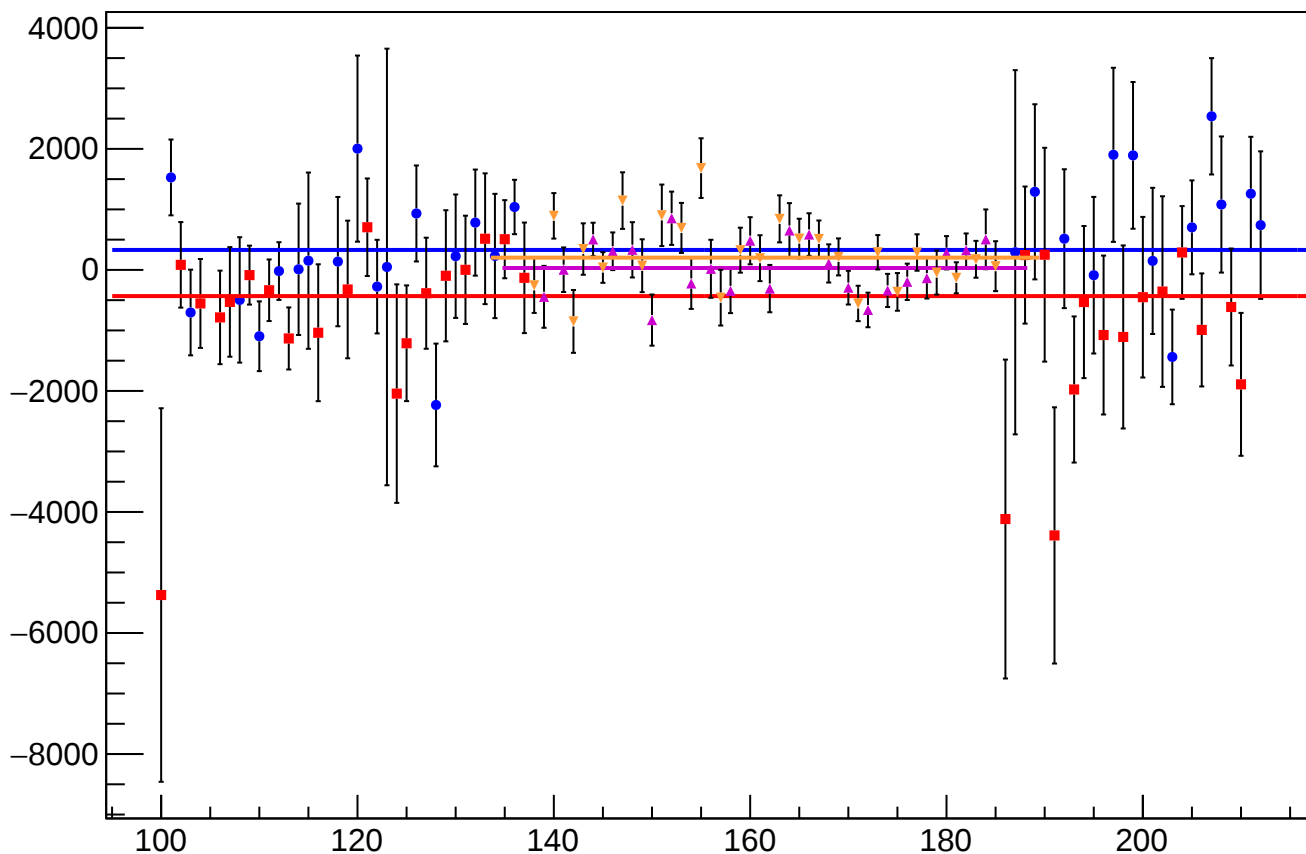
Right: 55.251 $\pm$ 0.007 χ^2 /NDF: 7787655.5/62

In: 43.938 $\pm$ 0.006 χ^2 /NDF: 5240510.1/52

Out: 43.714 $\pm$ 0.006 χ^2 /NDF: 6310923.7/57

All: 43.824 $\pm$ 0.004 χ^2 /NDF: 11552239.4/110

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 329.967 $\pm$ 160.650 χ^2 /NDF: 40.4/29

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -432.735 $\pm$ 157.364 χ^2 /NDF: 23.7/32

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

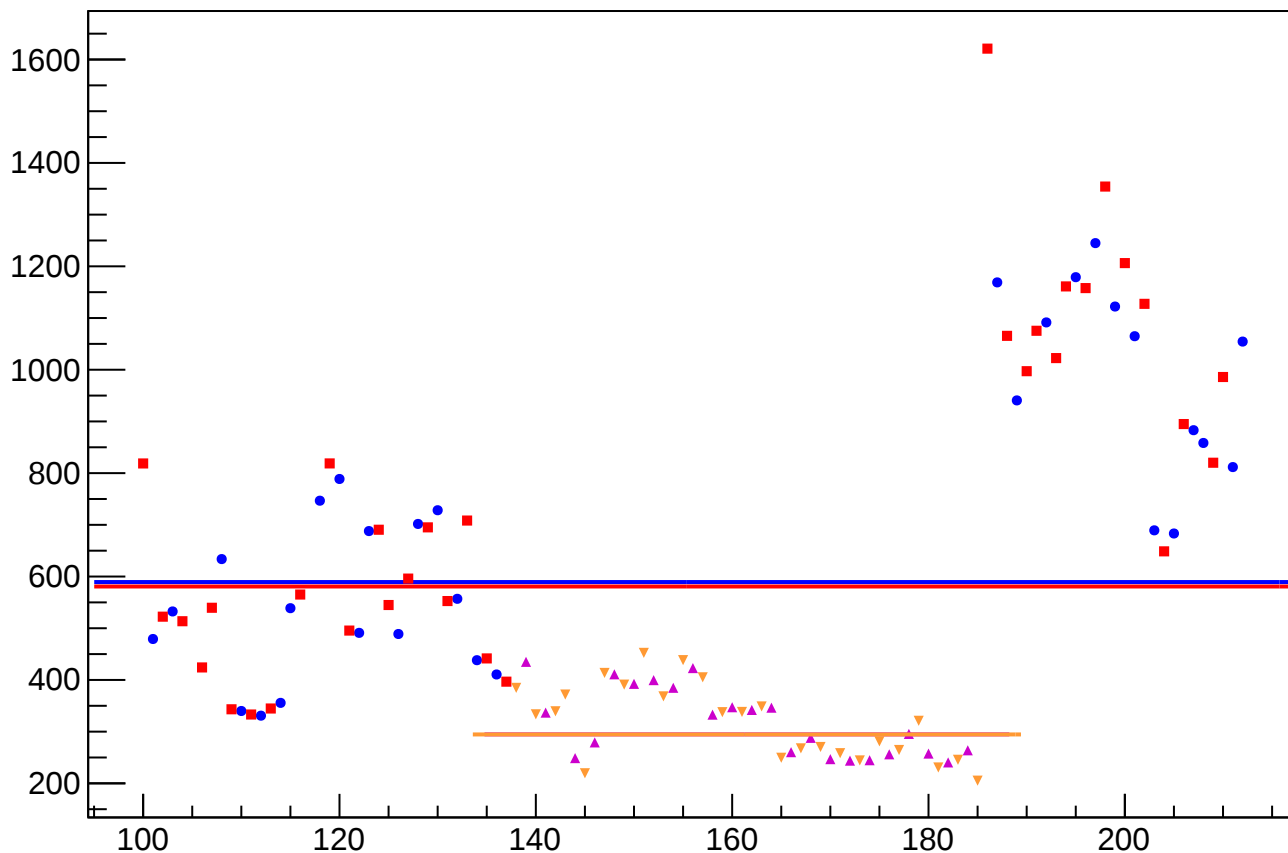
Right: -59.263 $\pm$ 112.417 χ^2 /NDF: 75.5/62

In: 81.579 $\pm$ 65.779 χ^2 /NDF:76.6/52

Out: 96.392 $\pm$ 64.282 χ^2 /NDF:82.1/57

All: 89.156 $\pm$ 45.974 χ^2 /NDF: 158.7/110

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 589.341+/-0.114 χ^2/NDF : 4571000.2/29

Left Out: 294.591+/-0.050 χ^2/NDF :1680474.5/24

Right Out: 580.752+/-0.111 χ^2/NDF : 5636590.9/32

Left In: 294.722+/-0.051 χ^2/NDF :1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

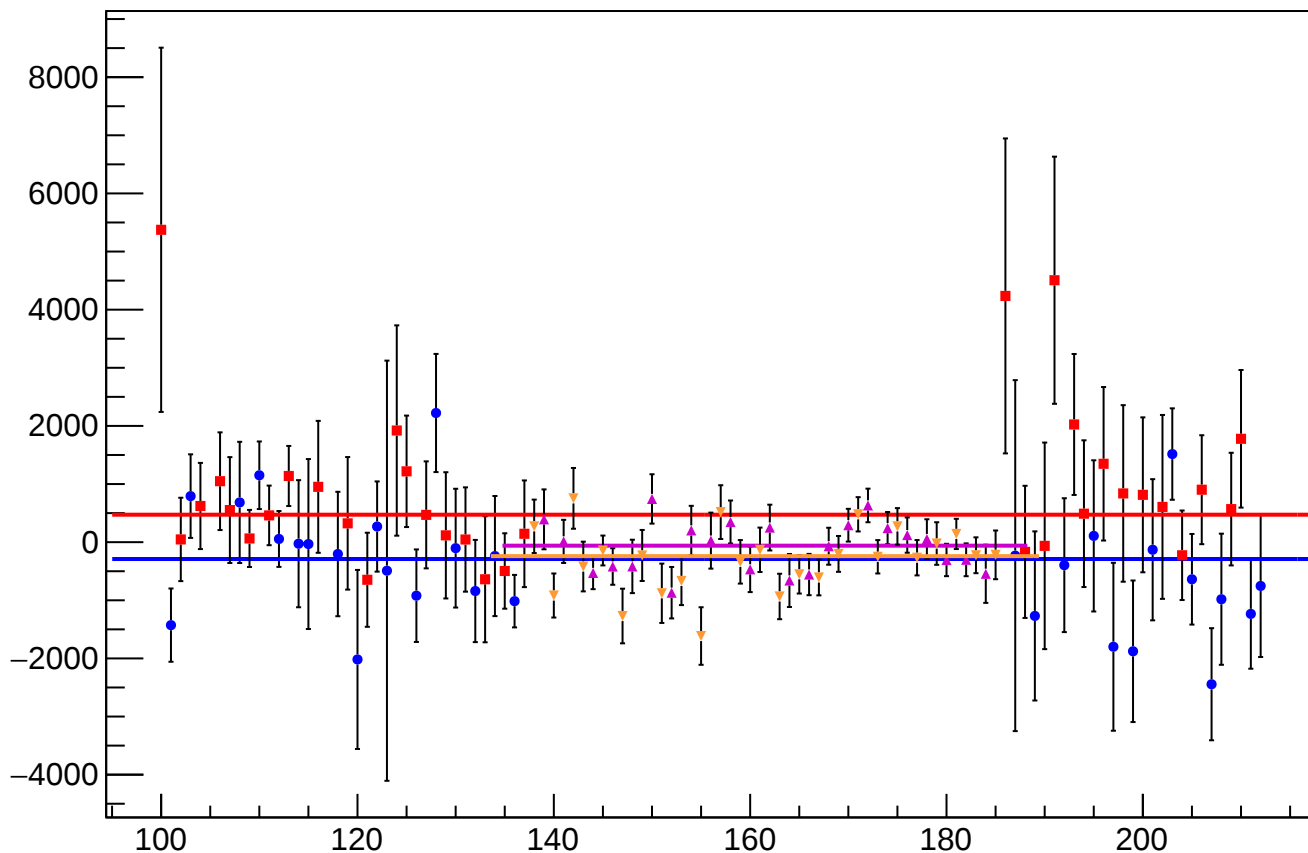
Right: 584.958+/-0.079 χ^2/NDF : 10210508.6/62

In: 344.116+/-0.047 χ^2/NDF :11467125.9/52

Out: 342.342+/-0.045 χ^2/NDF :12827096.0/57

All: 343.209+/-0.033 χ^2/NDF : 24294966.0/11

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -289.646 $\pm$ 161.554 χ^2/NDF : 40.0/29

Left Out: -240.357 $\pm$ 71.100 χ^2/NDF :42.9/24

Right Out: 472.635 $\pm$ 158.789 χ^2/NDF : 23.2/32

Left In: -60.330 $\pm$ 72.788 χ^2/NDF :30.9/22

Left: -152.455 $\pm$ 50.862 χ^2/NDF : 77.0/47

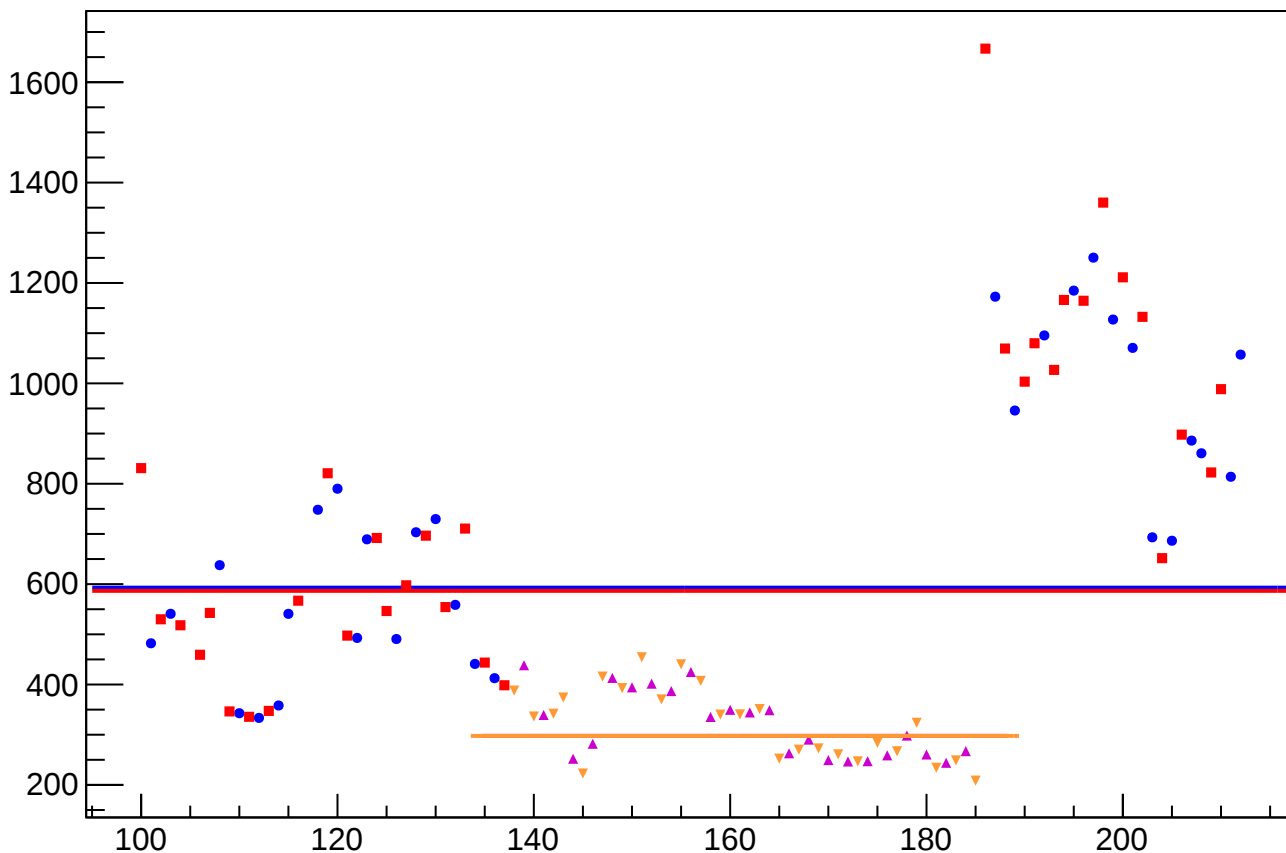
Right: 98.075 $\pm$ 113.246 χ^2/NDF : 74.5/62

In: -99.025 $\pm$ 66.363 χ^2/NDF :72.6/52

Out: -121.279 $\pm$ 64.892 χ^2/NDF :82.9/57

All: -110.401 $\pm$ 46.397 χ^2/NDF : 155.6/110

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 592.981+/-0.114 χ^2/NDF : 4543297.0/29

Left Out: 297.613+/-0.050 χ^2/NDF : 1637757.8/24

Right Out: 586.648+/-0.112 χ^2/NDF : 5573279.6/32

Left In: 297.699+/-0.051 χ^2/NDF : 1266306.2/22

Left: 297.655+/-0.036 χ^2/NDF : 2904065.4/47

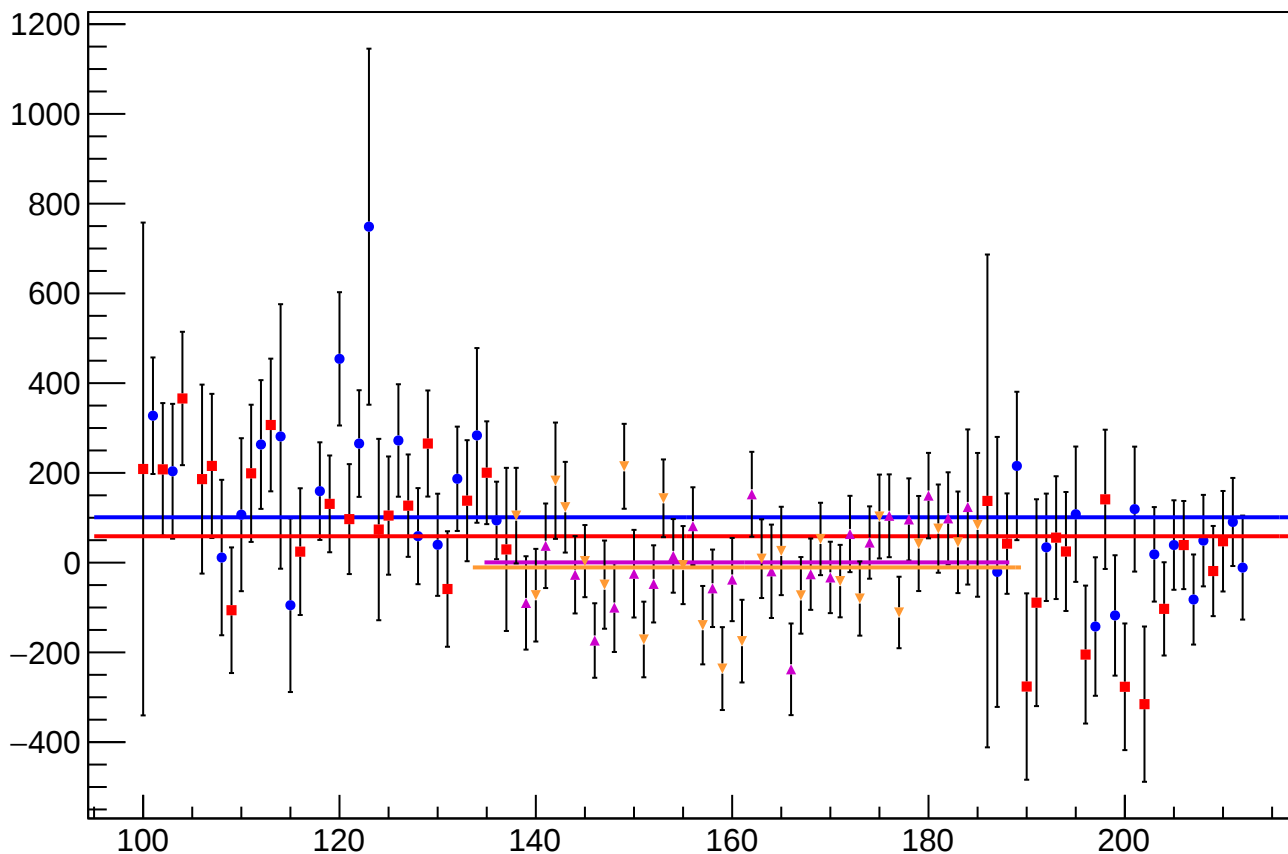
Right: 589.760+/-0.080 χ^2/NDF : 10118139.7/62

In: 347.525+/-0.047 χ^2/NDF : 11363570.9/52

Out: 345.885+/-0.046 χ^2/NDF : 12730967.1/57

All: 346.687+/-0.033 χ^2/NDF : 24095162.6/111

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 101.089 $\pm$ 23.552 χ^2 /NDF: 32.4/29

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 58.793 $\pm$ 24.053 χ^2 /NDF: 38.3/32

Left In: 0.575 $\pm$ 19.091 χ^2 /NDF:23.8/22

Left: -5.190 $\pm$ 13.326 χ^2 /NDF: 60.3/47

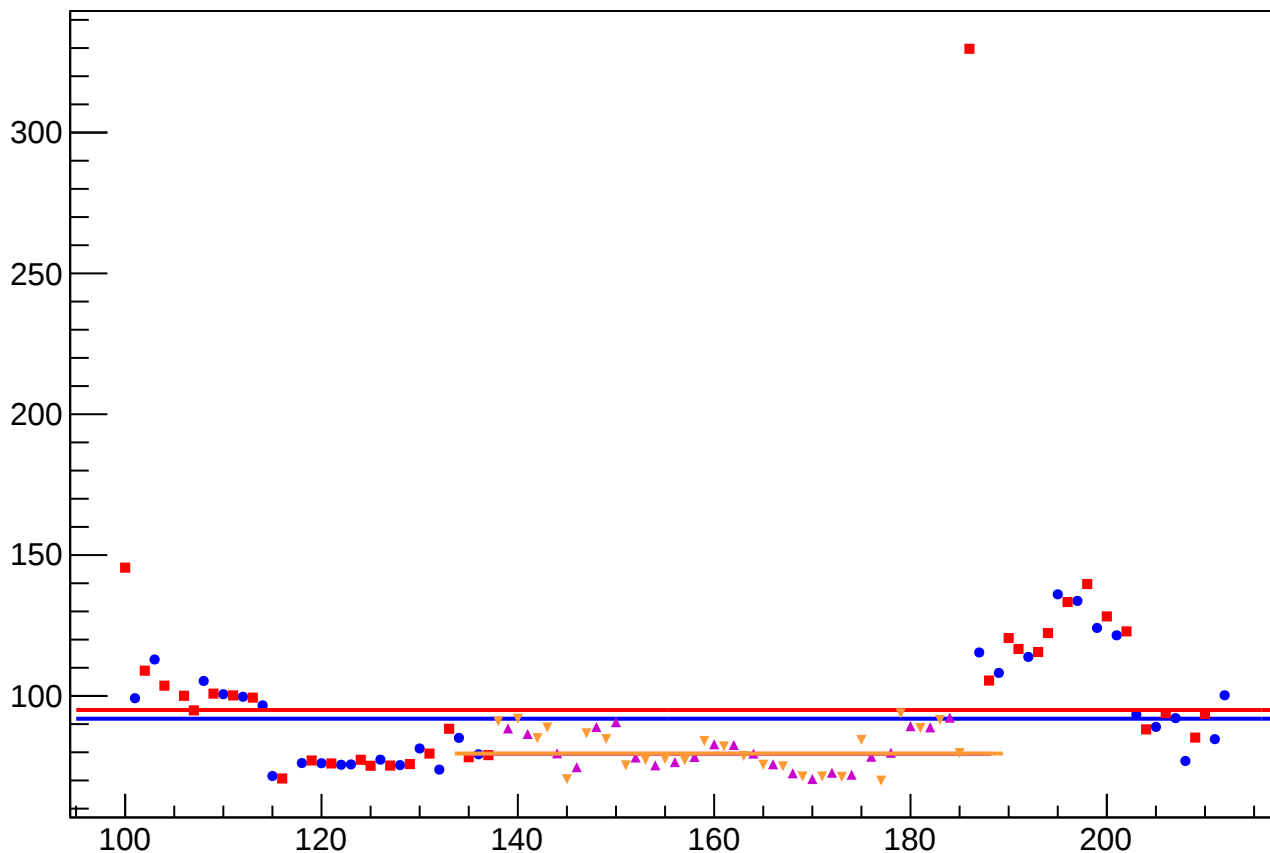
Right: 80.386 $\pm$ 16.828 χ^2 /NDF: 72.3/62

In: 40.431 $\pm$ 14.831 χ^2 /NDF:67.1/52

Out: 15.342 $\pm$ 14.719 χ^2 /NDF:79.9/57

All: 27.791 $\pm$ 10.447 χ^2 /NDF: 148.5/110

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 91.914+/-0.017 χ^2/NDF : 1071377.9/29

Left Out: 79.551+/-0.013 χ^2/NDF : 309075.2/24

Right Out: 95.007+/-0.017 χ^2/NDF : 1520752.8/32

Left In: 79.436+/-0.013 χ^2/NDF : 212440.1/22

Left: 79.495+/-0.009 χ^2/NDF : 521552.2/47

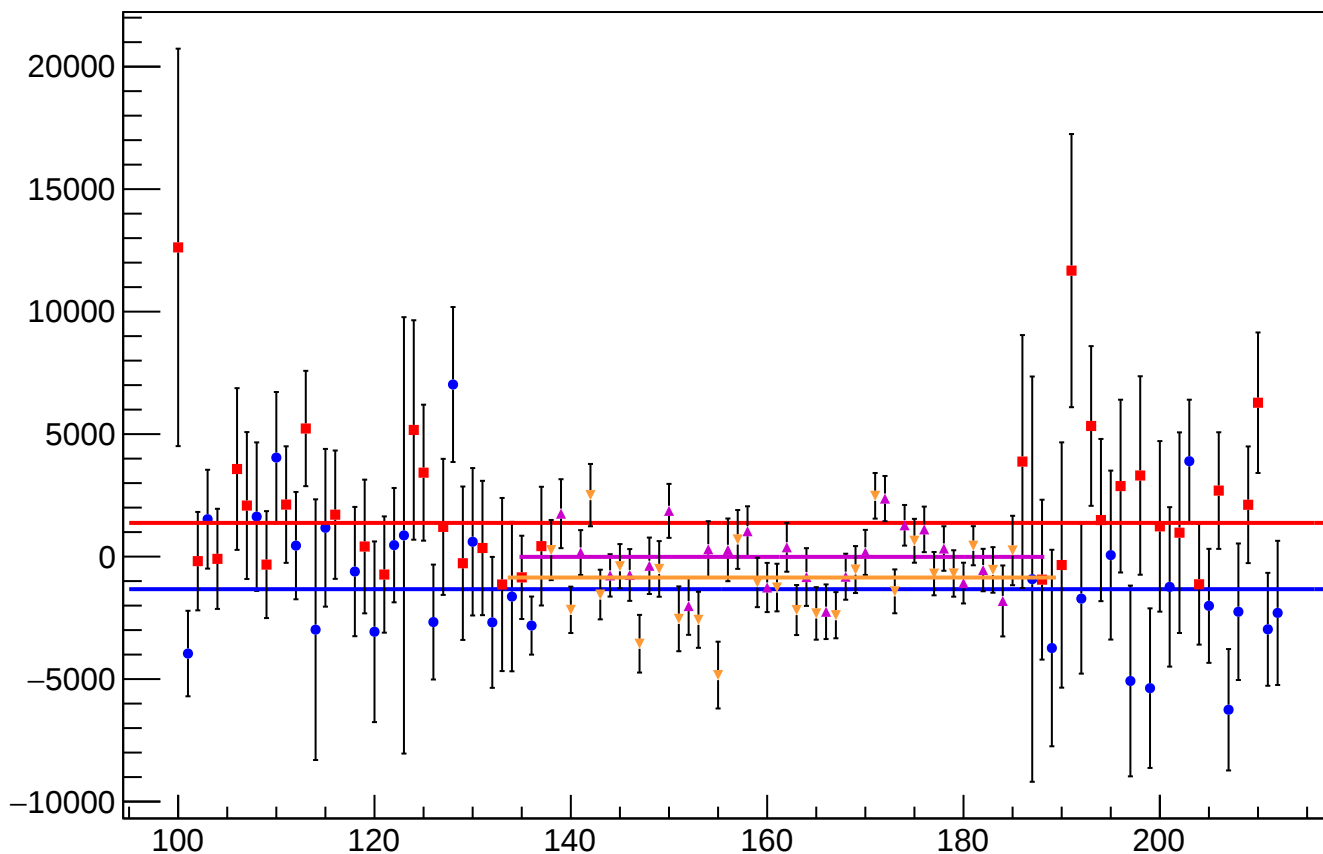
Right: 93.428+/-0.012 χ^2/NDF : 2609008.6/62

In: 84.384+/-0.010 χ^2/NDF : 1622576.5/52

Out: 85.338+/-0.010 χ^2/NDF : 2346384.0/57

All: 84.865+/-0.007 χ^2/NDF : 3973131.8/110

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1329.702 $\pm$ 477.369 χ^2 /NDF: 33.2/29

Left Out: -854.130 $\pm$ 204.090 χ^2 /NDF:56.0/24

Right Out: 1375.426 $\pm$ 488.976 χ^2 /NDF: 22.4/32

Left In: -11.687 $\pm$ 210.073 χ^2 /NDF:31.2/22

Left: -445.076 $\pm$ 146.383 χ^2 /NDF: 95.5/47

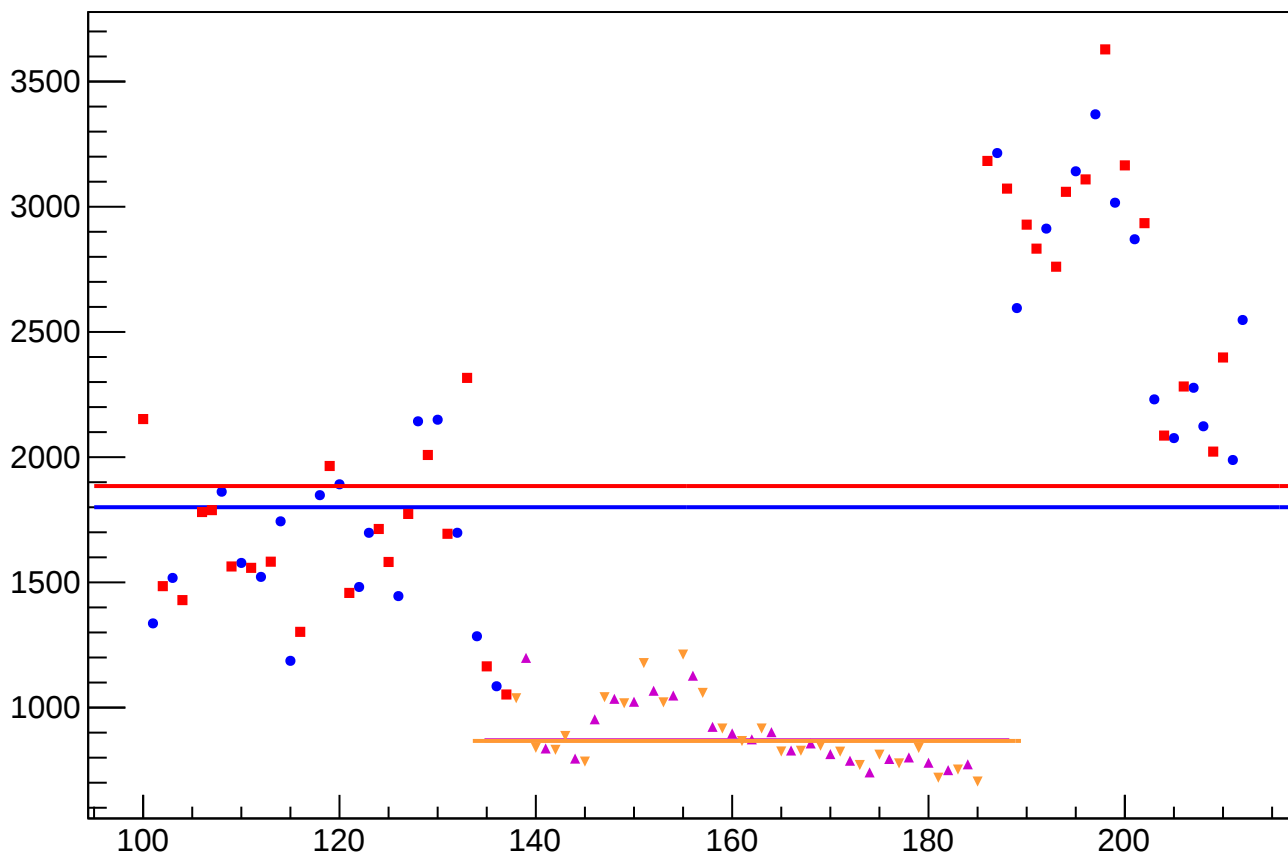
Right: -9.626 $\pm$ 341.581 χ^2 /NDF: 71.3/62

In: -225.520 $\pm$ 192.278 χ^2 /NDF:70.8/52

Out: -523.348 $\pm$ 188.343 χ^2 /NDF:96.1/57

All: -377.513 $\pm$ 134.548 χ^2 /NDF: 168.2/110

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1800.176+/-0.338 χ^2/NDF : 3077465.7/29

Left Out: 866.893+/-0.144 χ^2/NDF : 661712.5/24

Right Out: 1884.630+/-0.346 χ^2/NDF : 3217461.8/32

Left In: 869.569+/-0.149 χ^2/NDF : 582301.2/22

Left: 868.192+/-0.104 χ^2/NDF : 1244180.7/47

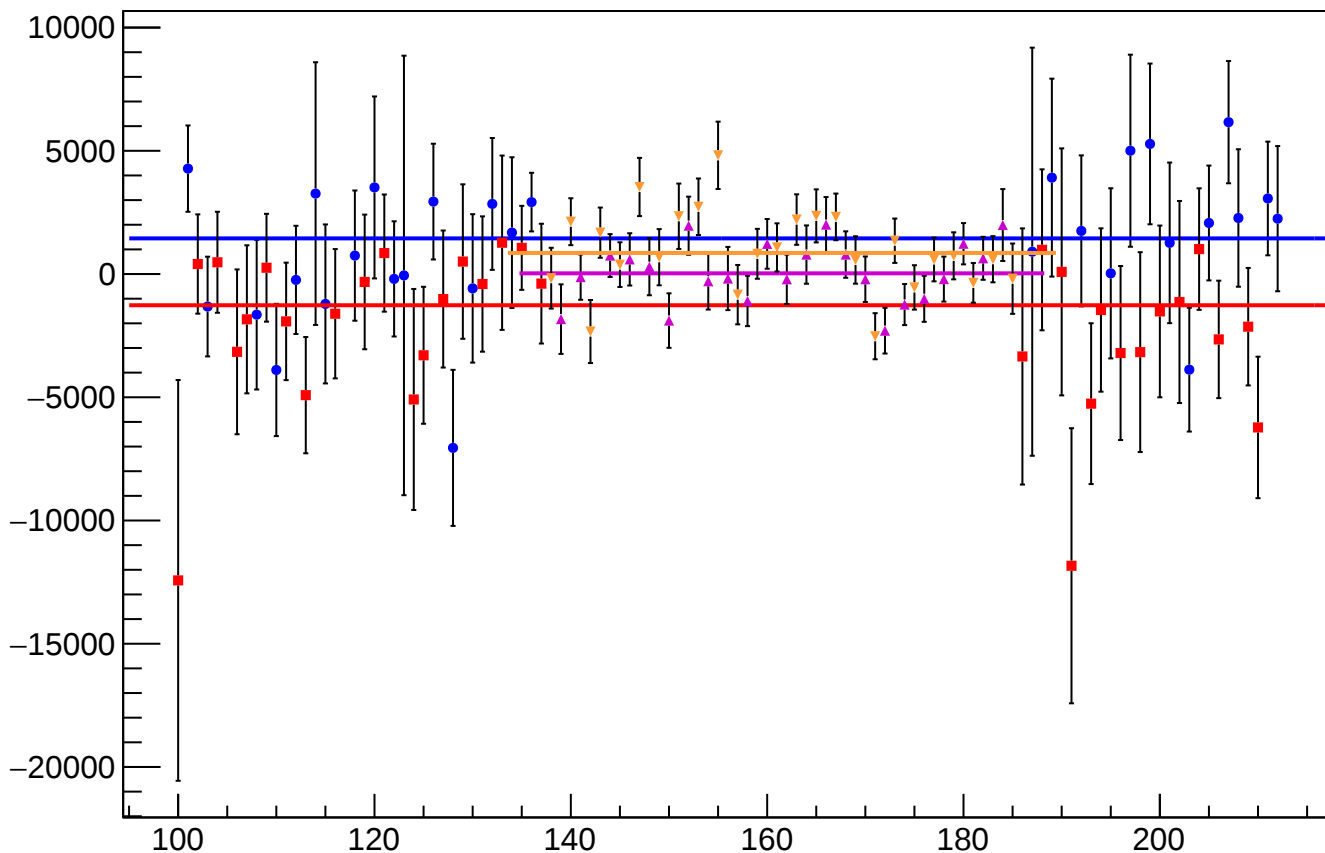
Right: 1841.389+/-0.242 χ^2/NDF : 6325475.1/62

In: 1020.549+/-0.136 χ^2/NDF : 10027357.7/52

Out: 1017.887+/-0.133 χ^2/NDF : 11257890.9/57

All: 1019.190+/-0.095 χ^2/NDF : 21285444.1/112

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1446.252 $\pm$ 478.169 χ^2 /NDF: 33.3/29

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF:54.1/24

Right Out: -1266.171 $\pm$ 489.887 χ^2 /NDF: 22.4/32

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

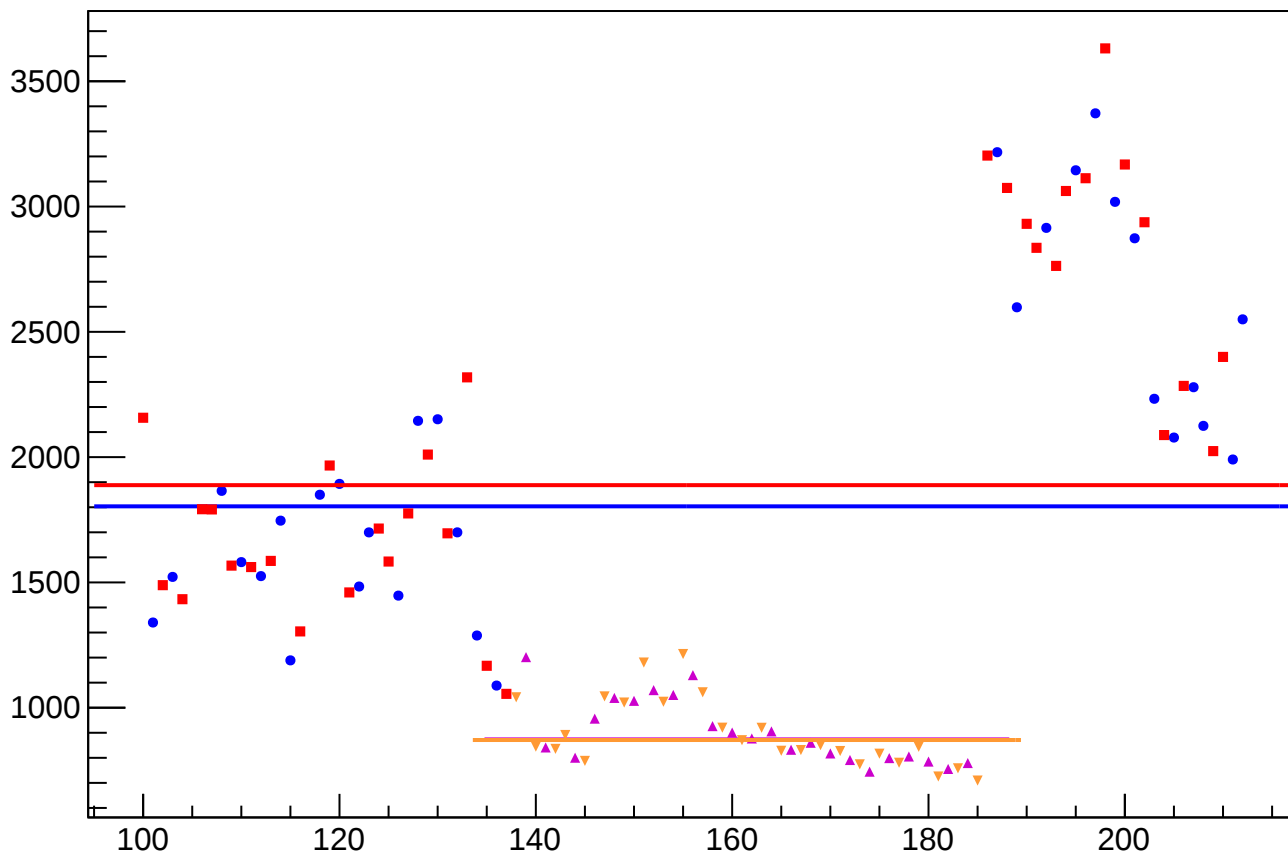
Right: 122.869 $\pm$ 342.184 χ^2 /NDF: 71.3/62

In: 259.673 $\pm$ 193.067 χ^2 /NDF:70.4/52

Out: 539.351 $\pm$ 189.147 χ^2 /NDF:92.4/57

All: 402.380 $\pm$ 135.112 χ^2 /NDF: 163.8/110

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1803.616 $\pm$ 0.338 χ^2/NDF : 3064757.7/29

Left Out: 871.109 $\pm$ 0.145 χ^2/NDF : 651751.1/24

Right Out: 1888.177 $\pm$ 0.346 χ^2/NDF : 3208682.6/32

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

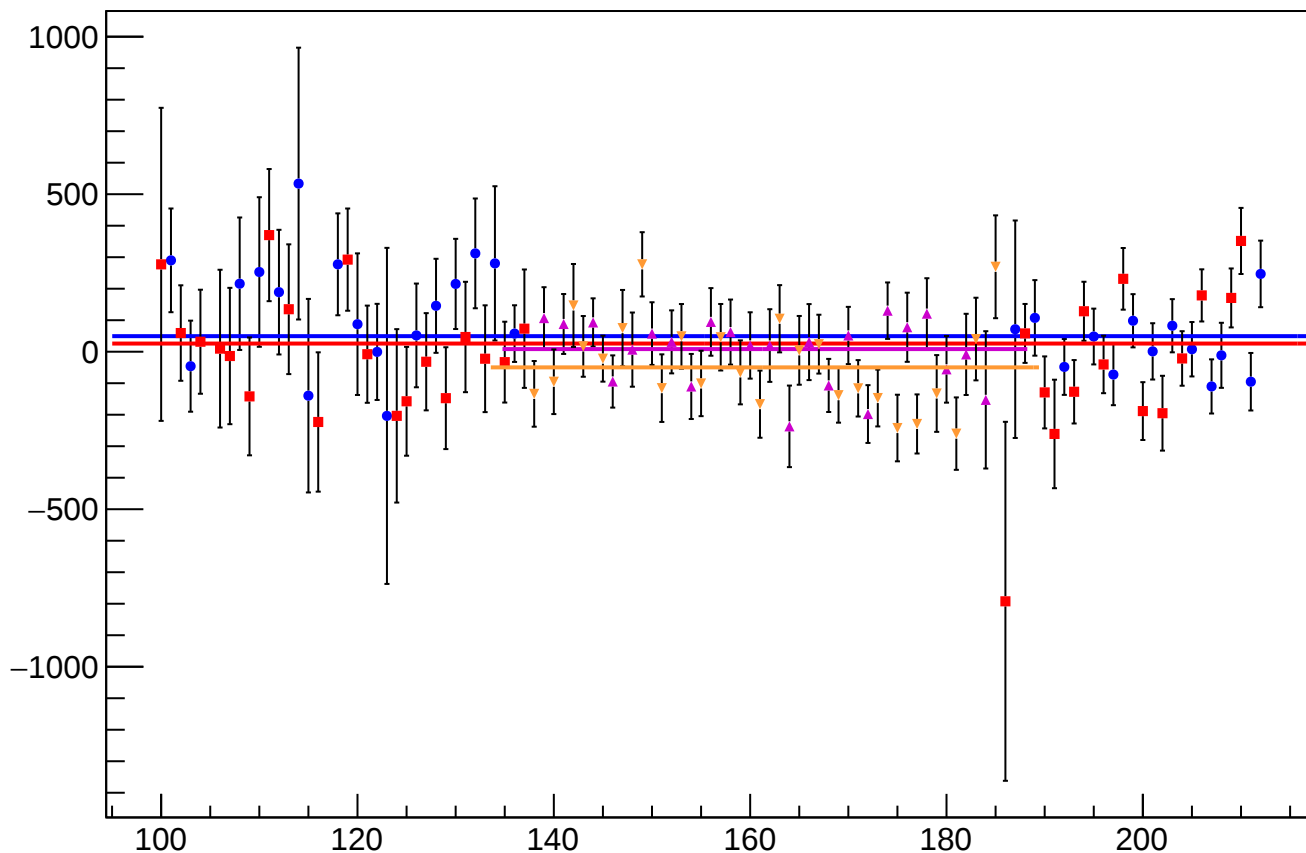
Right: 1844.873 $\pm$ 0.242 χ^2/NDF : 6303956.7/62

In: 1025.279 $\pm$ 0.137 χ^2/NDF : 9969856.3/52

Out: 1022.729 $\pm$ 0.134 χ^2/NDF : 11195938.9/57

All: 1023.978 $\pm$ 0.096 χ^2/NDF : 21165973.2/13

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 49.373+/-22.408 χ^2/NDF : 27.2/29

Left Out: -49.717+/-20.580 χ^2/NDF : 39.4/24

Right Out: 25.899+/-22.824 χ^2/NDF : 51.5/32

Left In: 8.343+/-21.271 χ^2/NDF : 22.0/22

Left: -21.646+/-14.791 χ^2/NDF : 65.3/47

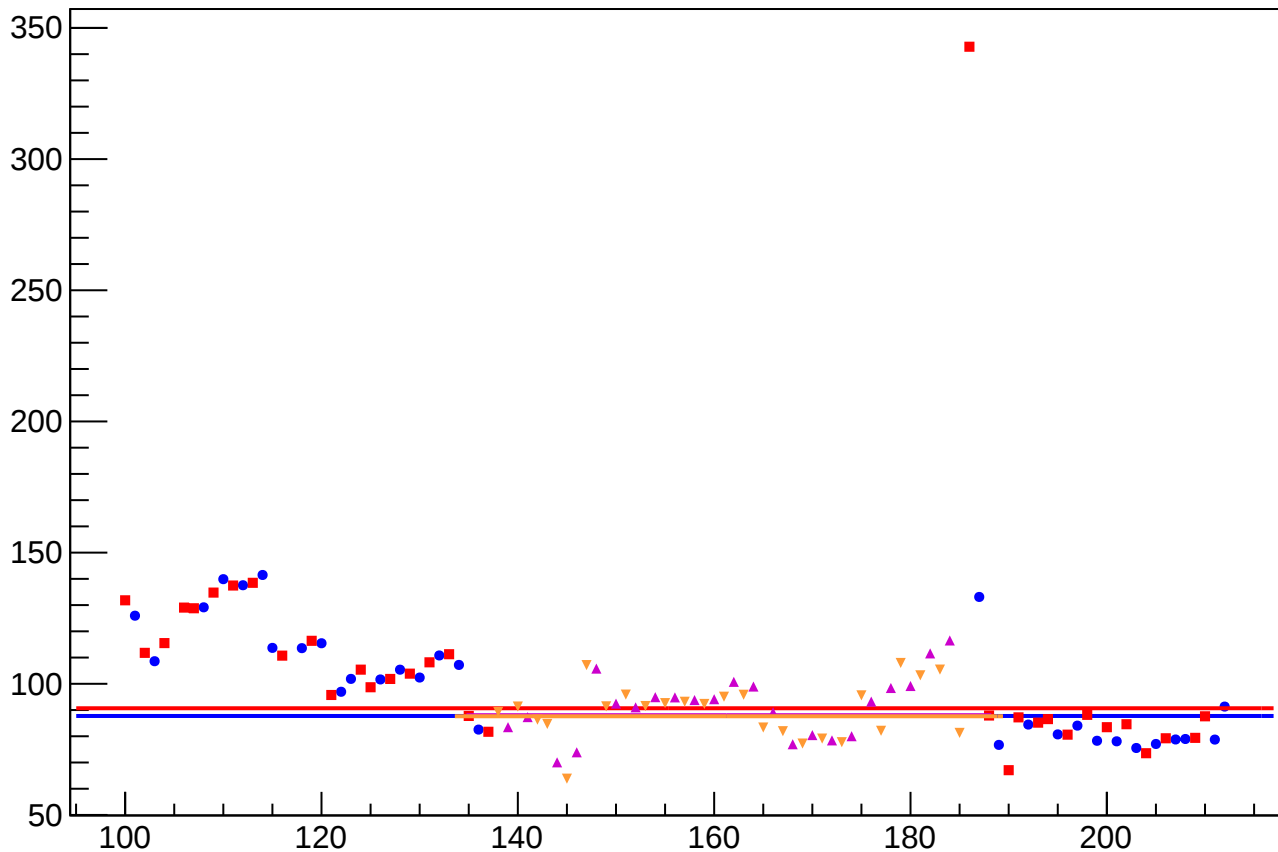
Right: 37.852+/-15.990 χ^2/NDF : 79.2/62

In: 27.791+/-15.427 χ^2/NDF : 50.9/52

Out: -15.808+/-15.284 χ^2/NDF : 97.0/57

All: 5.789+/-10.858 χ^2/NDF : 152.0/110

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 87.735 $\pm$ 0.016 χ^2 /NDF: 951833.9/29

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 90.677 $\pm$ 0.016 χ^2 /NDF: 1363121.4/32

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

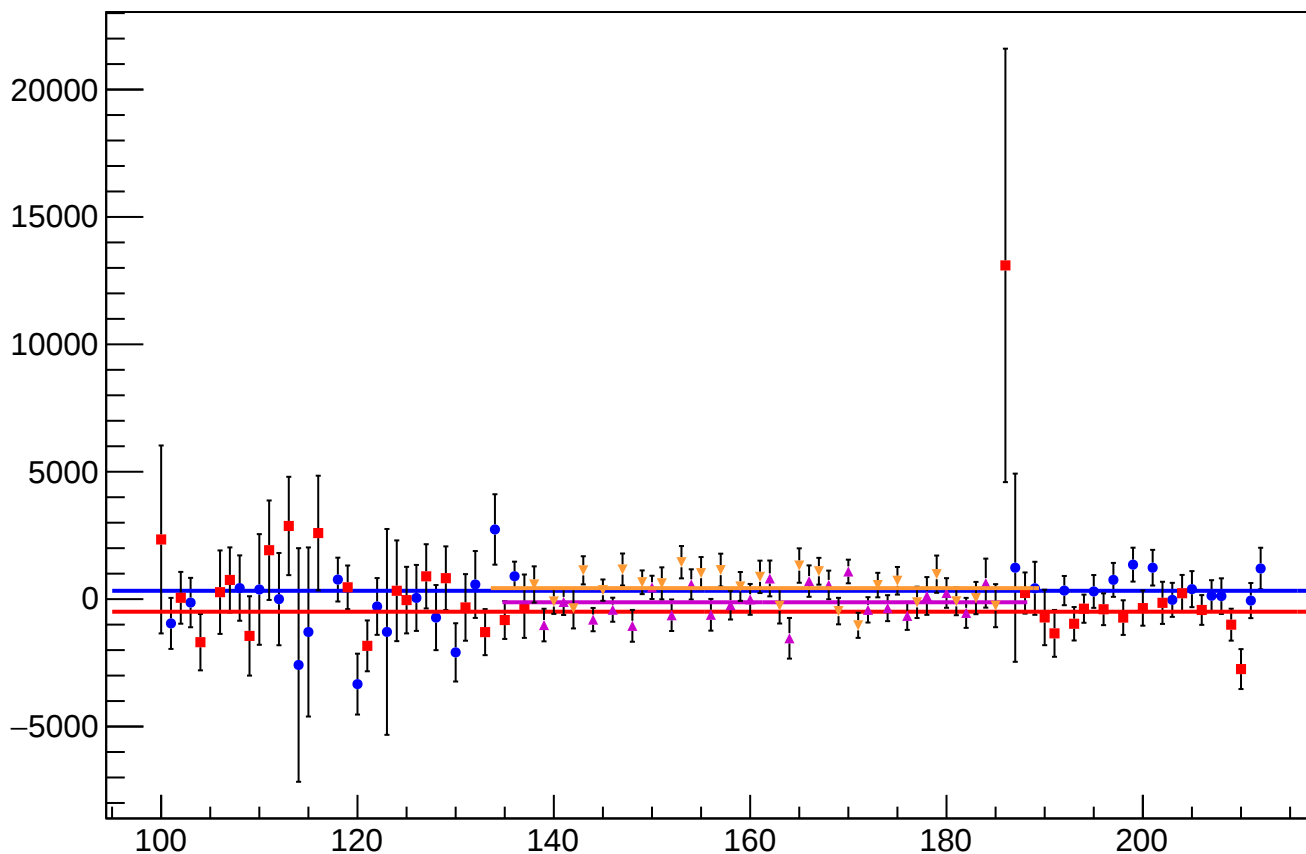
Right: 89.179 $\pm$ 0.011 χ^2 /NDF: 2331884.3/62

In: 87.891 $\pm$ 0.011 χ^2 /NDF: 1475730.2/52

Out: 88.994 $\pm$ 0.011 χ^2 /NDF: 1937535.7/57

All: 88.448 $\pm$ 0.008 χ^2 /NDF: 3418424.5/110

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 327.178+/-162.303 χ^2/NDF : 28.4/29

Left Out: 431.658+/-115.706 χ^2/NDF :30.5/24

Right Out: -493.798+/-159.572 χ^2/NDF : 31.9/32

Left In: -123.017+/-118.849 χ^2/NDF :29.3/22

Left: 161.753+/-82.905 χ^2/NDF : 70.9/47

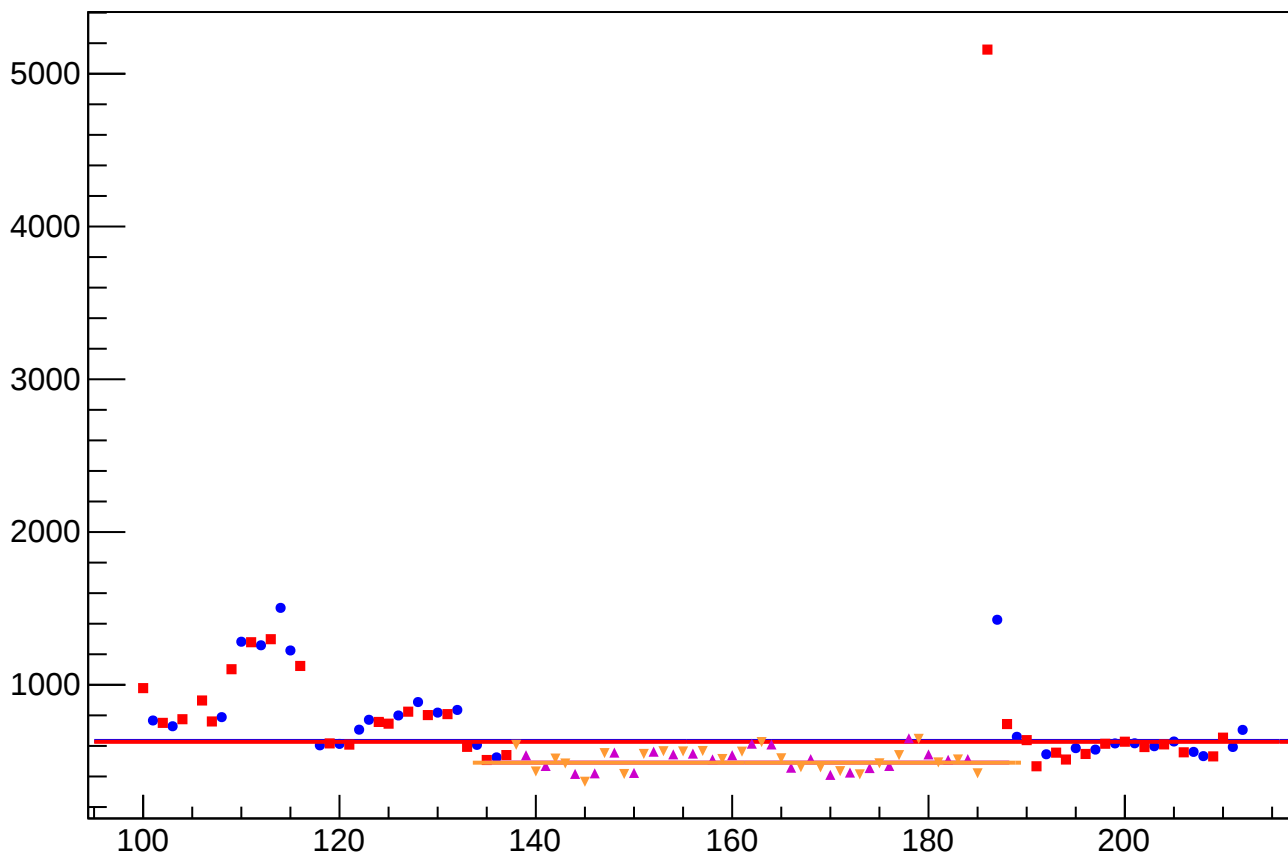
Right: -90.275+/-113.788 χ^2/NDF : 73.3/62

In: 34.124+/-95.889 χ^2/NDF :62.7/52

Out: 112.752+/-93.672 χ^2/NDF :84.4/57

All: 74.358+/-67.006 χ^2/NDF : 147.4/110

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 632.552 ± 0.115 χ^2/NDF : 1200120.3/29

Left Out: 490.267 ± 0.082 χ^2/NDF : 750277.0/24

Right Out: 626.823 ± 0.113 χ^2/NDF : 2021802.9/32

Left In: 490.910 ± 0.084 χ^2/NDF : 589235.5/22

Left: 490.580 ± 0.059 χ^2/NDF : 1339542.5/47

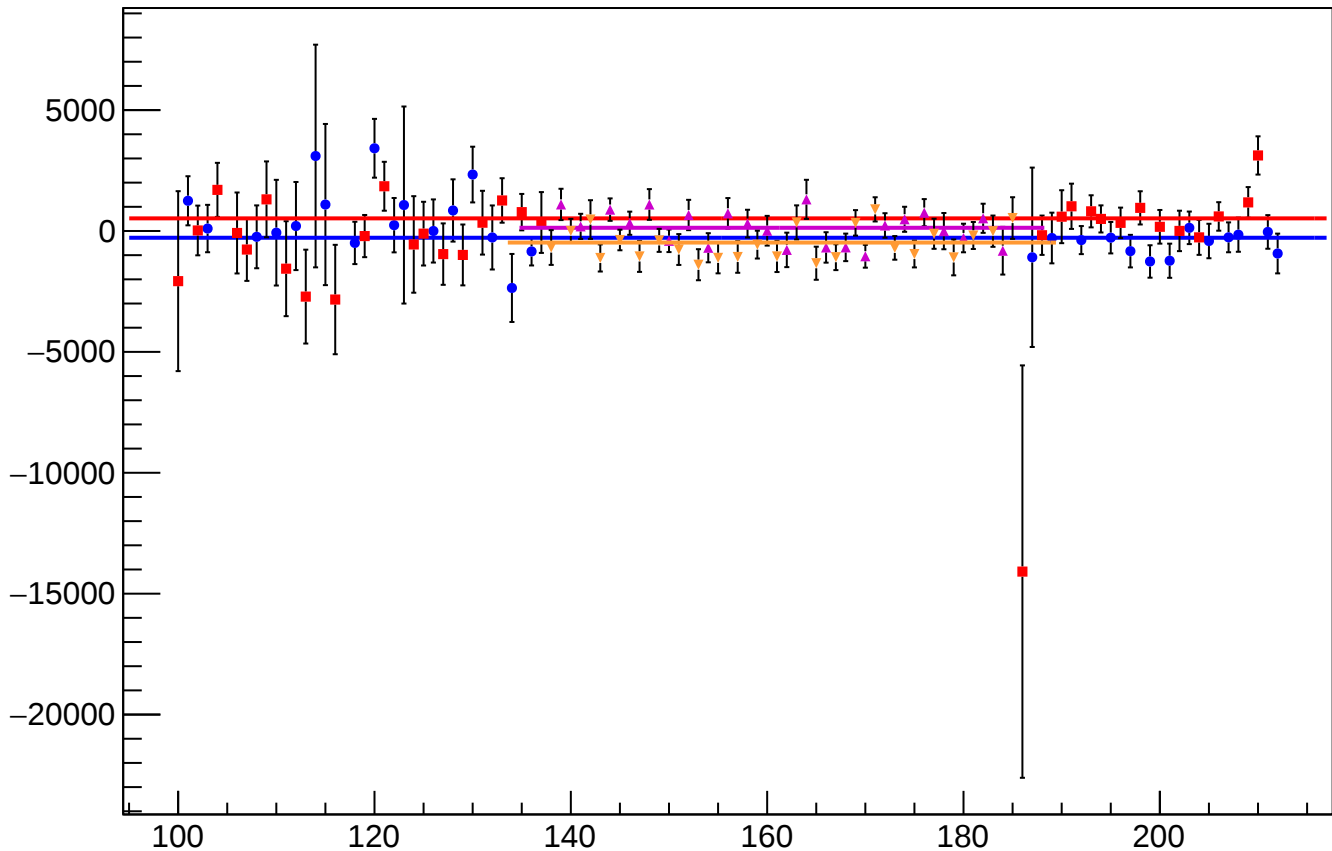
Right: 629.639 ± 0.080 χ^2/NDF : 3223190.2/62

In: 540.350 ± 0.068 χ^2/NDF : 2780899.2/52

Out: 537.323 ± 0.066 χ^2/NDF : 3732035.2/57

All: 538.801 ± 0.047 χ^2/NDF : 6513954.0/110

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -279.695 ± 164.012 χ^2/NDF : 27.8/29

Left Out: -478.197 ± 117.659 χ^2/NDF : 27.8/24

Right Out: 521.964 ± 161.419 χ^2/NDF : 34.2/32

Left In: 132.543 ± 120.866 χ^2/NDF : 29.5/22

Left: -181.037 ± 84.308 χ^2/NDF : 70.5/47

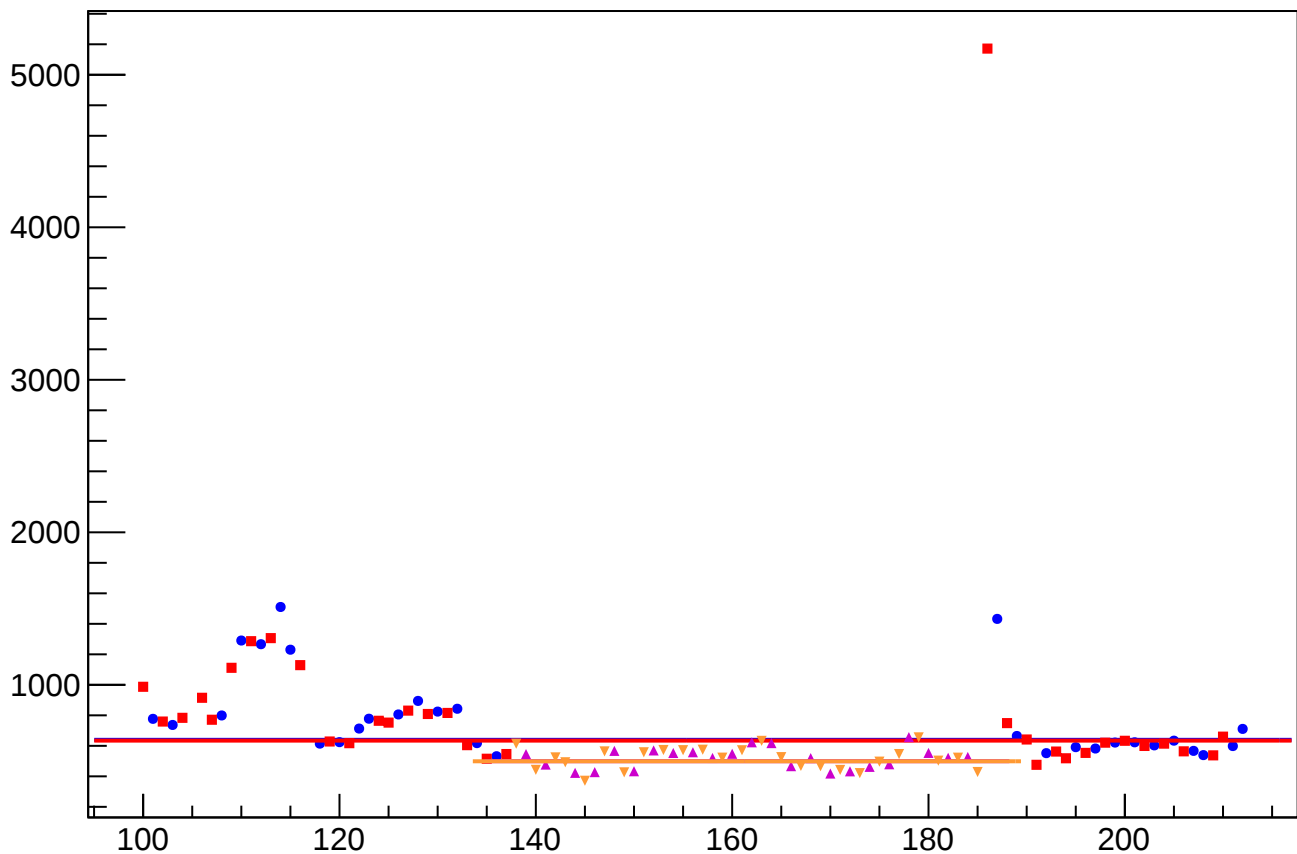
Right: 127.522 ± 115.046 χ^2/NDF : 74.2/62

In: -12.541 ± 97.300 χ^2/NDF : 61.5/52

Out: -131.180 ± 95.081 χ^2/NDF : 87.1/57

All: -73.228 ± 68.003 χ^2/NDF : 149.3/110

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 639.380+/-0.116 χ^2/NDF : 1189043.9/29

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 634.320+/-0.114 χ^2/NDF : 2001718.9/32

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

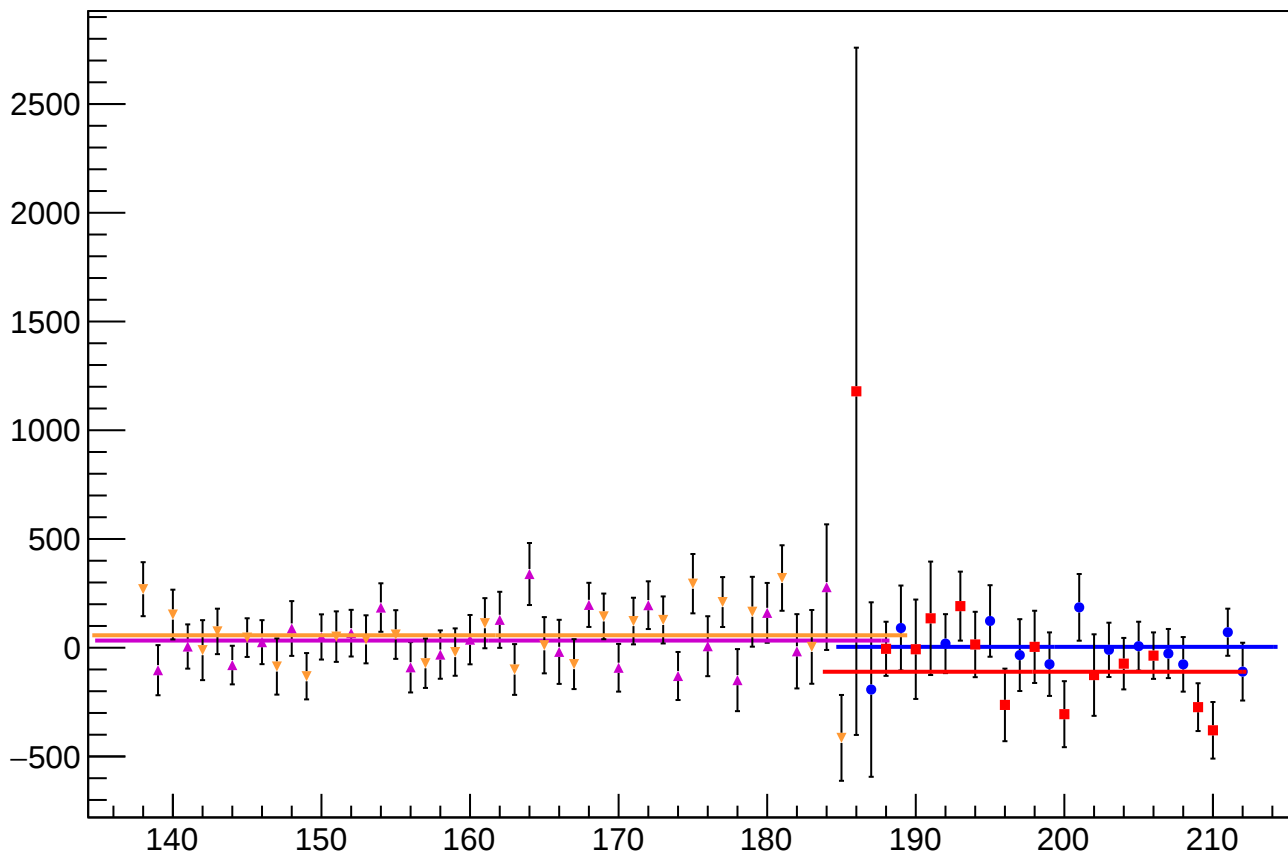
Right: 636.810+/-0.081 χ^2/NDF : 3191729.8/62

In: 548.660+/-0.069 χ^2/NDF : 2709798.7/52

Out: 545.790+/-0.067 χ^2/NDF : 3657241.3/57

All: 547.192+/-0.048 χ^2/NDF : 6367930.1/110

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 3.999 ± 38.441 χ^2/NDF : 4.3/12

Left Out: 57.211 ± 23.714 χ^2/NDF : 29.2/24

Right Out: -110.508 ± 39.910 χ^2/NDF : 16.8/13

Left In: 32.948 ± 24.587 χ^2/NDF : 23.6/22

Left: 45.518 ± 17.069 χ^2/NDF : 53.3/47

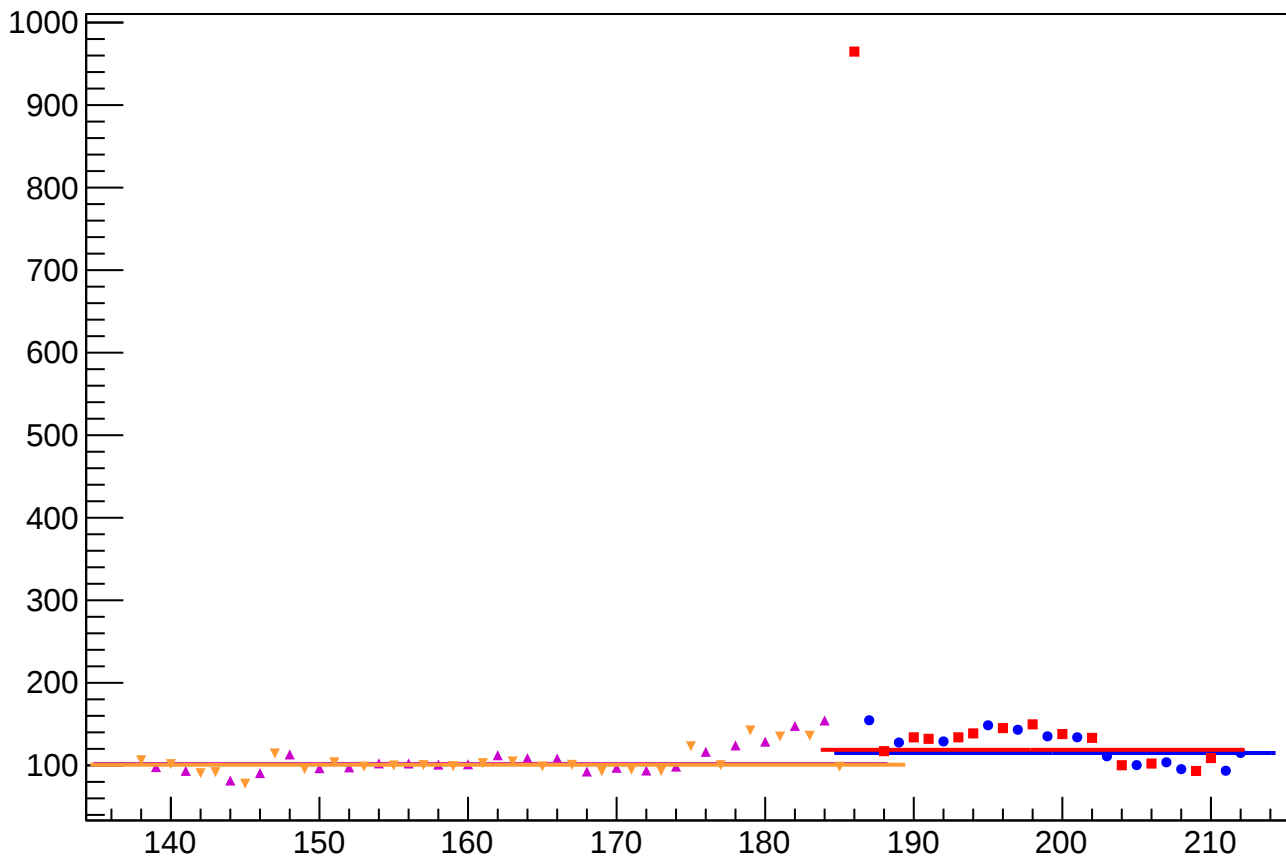
Right: -51.108 ± 27.687 χ^2/NDF : 25.4/26

In: 24.544 ± 20.713 χ^2/NDF : 28.4/35

Out: 13.449 ± 20.387 χ^2/NDF : 59.1/38

All: 18.908 ± 14.529 χ^2/NDF : 87.6/74

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 114.995 $\pm$ 0.027 χ^2 /NDF: 443204.0/12

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF:600502.4/24

Right Out: 118.840 $\pm$ 0.028 χ^2 /NDF: 1021689.2/13

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

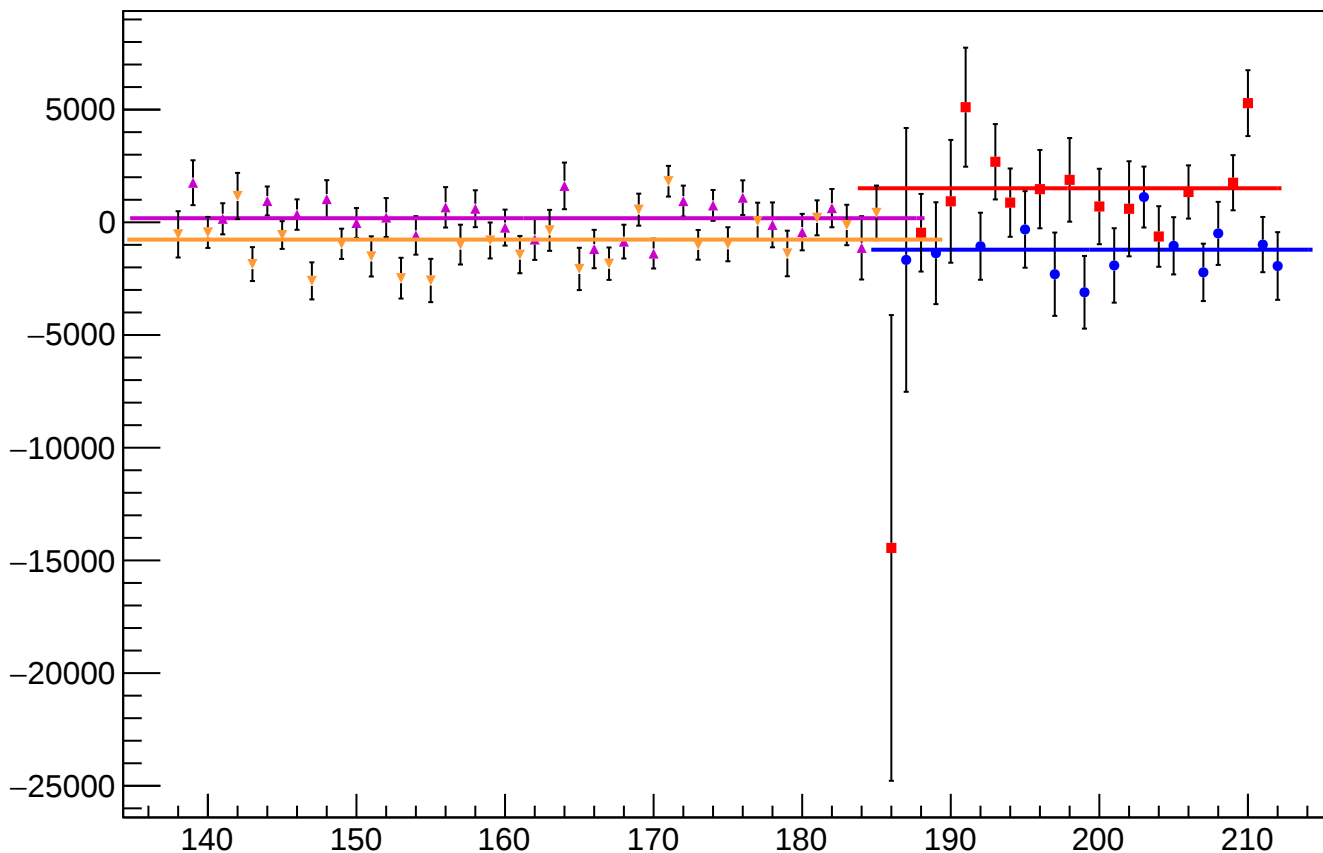
Right: 116.846 $\pm$ 0.020 χ^2 /NDF: 1474523.8/26

In: 105.504 $\pm$ 0.015 χ^2 /NDF:1197317.2/35

Out: 105.508 $\pm$ 0.014 χ^2 /NDF:1924195.6/38

All: 105.506 $\pm$ 0.010 χ^2 /NDF: 3121512.7/74

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1214.655 $\pm$ 427.446 χ^2 /NDF: 6.4/12

Left Out: -766.358 $\pm$ 161.066 χ^2 /NDF:46.5/24

Right Out: 1510.257 $\pm$ 445.978 χ^2 /NDF: 16.0/13

Left In: 181.584 $\pm$ 165.671 χ^2 /NDF:25.0/22

Left: -305.743 $\pm$ 115.485 χ^2 /NDF: 88.4/47

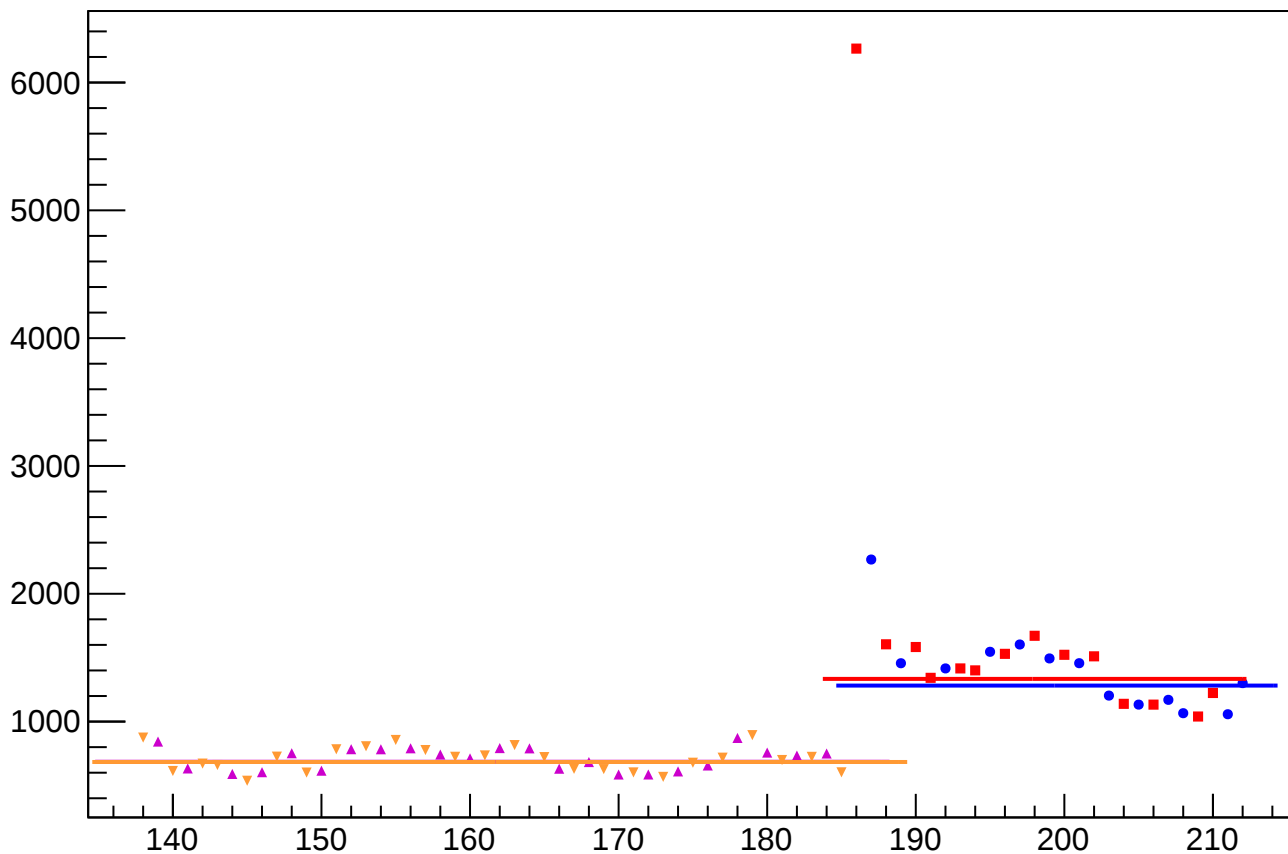
Right: 90.011 $\pm$ 308.593 χ^2 /NDF: 41.8/26

In: -0.767 $\pm$ 154.474 χ^2 /NDF:40.6/35

Out: -503.677 $\pm$ 151.489 χ^2 /NDF:85.6/38

All: -257.127 $\pm$ 108.159 χ^2 /NDF: 131.6/74

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1281.702 $\pm$ 0.302 χ^2 /NDF: 415798.4/12

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1333.962 $\pm$ 0.315 χ^2 /NDF: 888733.5/13

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

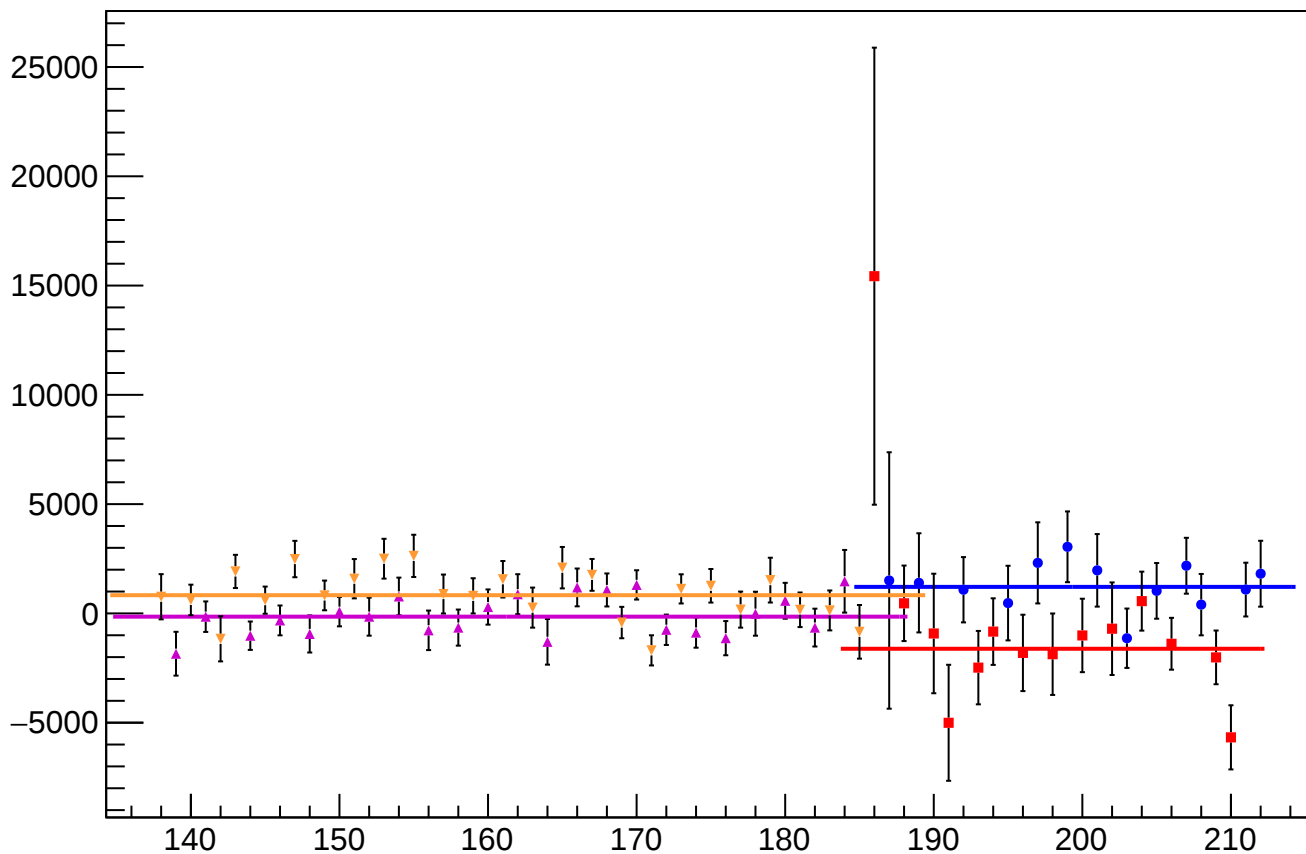
Right: 1306.724 $\pm$ 0.218 χ^2 /NDF: 1318845.7/26

In: 763.446 $\pm$ 0.109 χ^2 /NDF: 4326874.2/35

Out: 758.892 $\pm$ 0.107 χ^2 /NDF: 5315040.5/38

All: 761.124 $\pm$ 0.076 χ^2 /NDF: 9642800.8/74

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1213.825 $\pm$ 429.234 χ^2 /NDF: 6.1/12

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF:43.2/24

Right Out: -1617.717 $\pm$ 447.872 χ^2 /NDF: 17.1/13

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

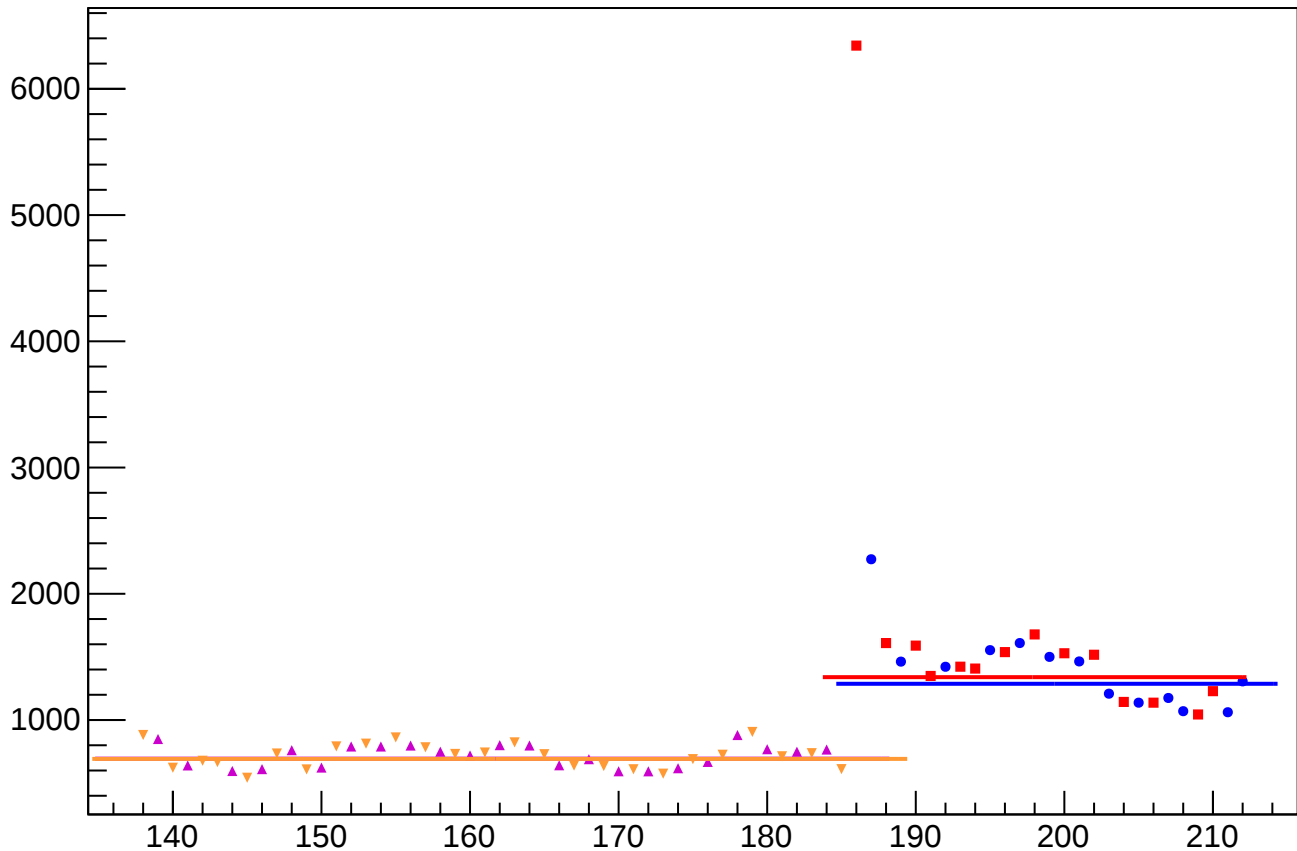
Right: -141.802 $\pm$ 309.894 χ^2 /NDF: 44.0/26

In: 31.535 $\pm$ 156.156 χ^2 /NDF:40.9/35

Out: 546.816 $\pm$ 153.142 χ^2 /NDF:86.7/38

All: 294.196 $\pm$ 109.338 χ^2 /NDF: 133.2/74

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1287.052+/-0.304 χ^2/NDF : 416480.8/12

Left Out: 692.097+/-0.115 χ^2/NDF : 657259.6/24

Right Out: 1339.578+/-0.317 χ^2/NDF : 891218.5/13

Left In: 693.867+/-0.119 χ^2/NDF : 522053.5/22

Left: 692.957+/-0.083 χ^2/NDF : 1179427.7/47

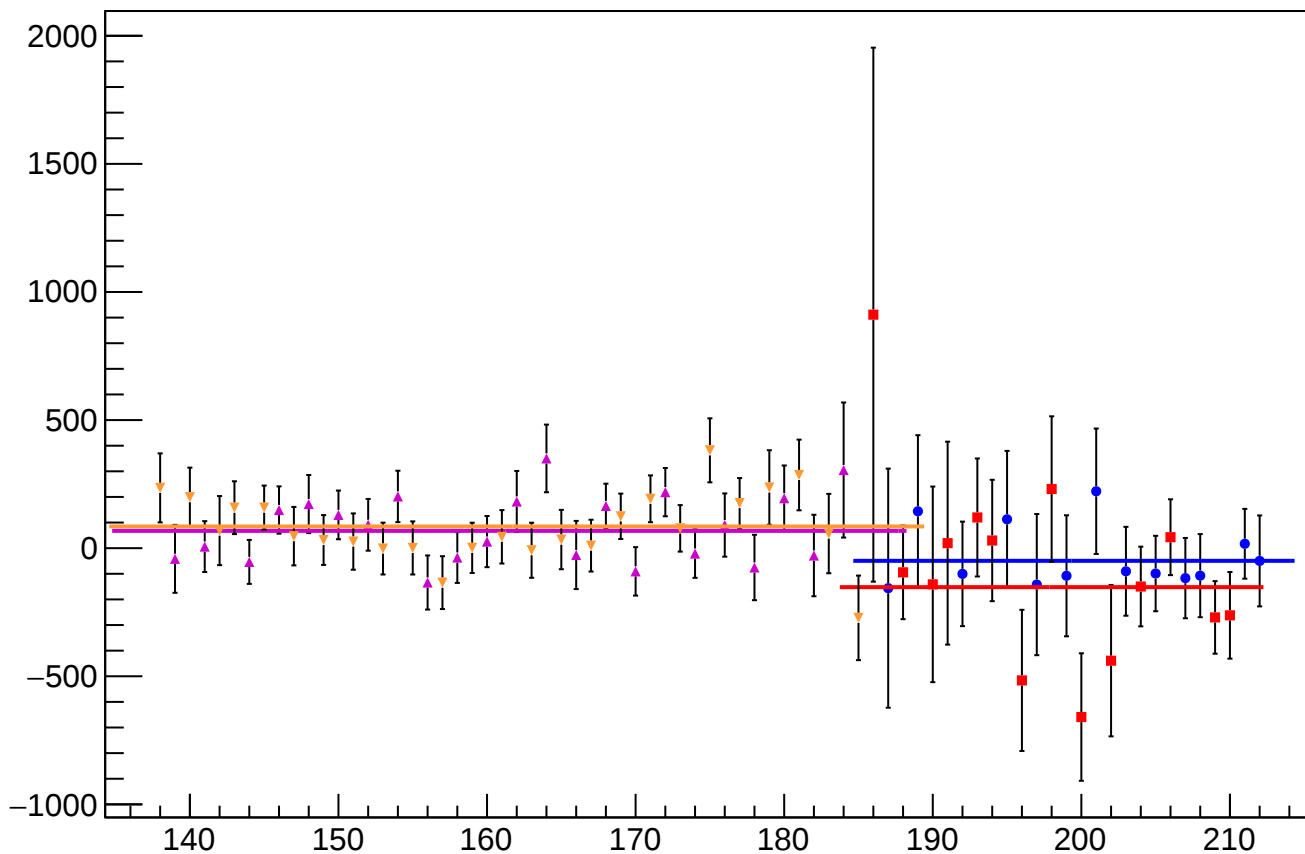
Right: 1312.199+/-0.219 χ^2/NDF : 1322037.6/26

In: 772.377+/-0.110 χ^2/NDF : 4252641.6/35

Out: 767.799+/-0.108 χ^2/NDF : 5239757.0/38

All: 770.043+/-0.077 χ^2/NDF : 9493274.7/74

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -49.368 ± 53.800 $\chi^2/\text{NDF}: 3.0/12$

Left Out: 84.860 ± 21.643 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -152.105 ± 57.186 $\chi^2/\text{NDF}: 14.8/13$

Left In: 67.552 ± 22.449 $\chi^2/\text{NDF}: 28.9/22$

Left: 76.522 ± 15.581 $\chi^2/\text{NDF}: 57.7/47$

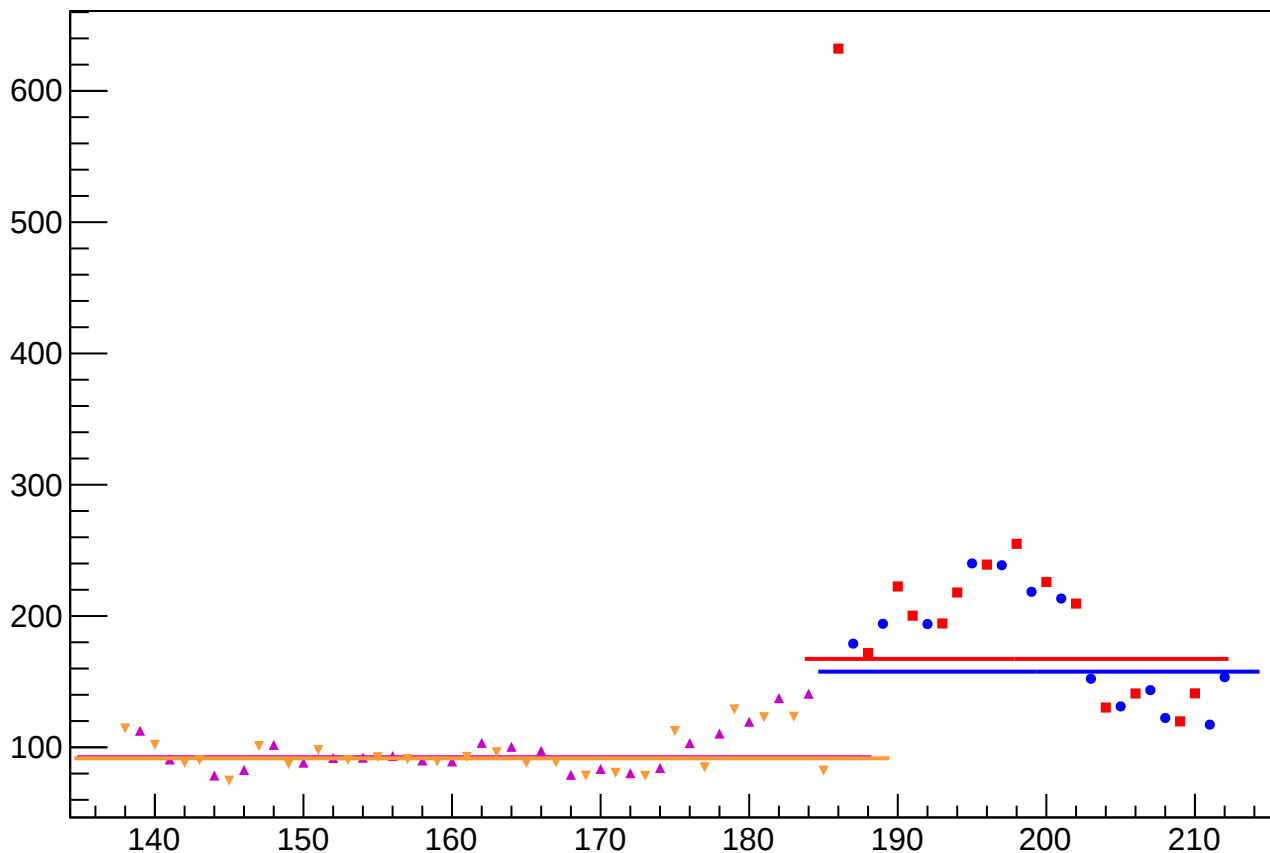
Right: -97.605 ± 39.185 $\chi^2/\text{NDF}: 19.6/26$

In: 50.213 ± 20.718 $\chi^2/\text{NDF}: 35.9/35$

Out: 55.170 ± 20.242 $\chi^2/\text{NDF}: 58.4/38$

All: 52.750 ± 14.478 $\chi^2/\text{NDF}: 94.3/74$

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 157.634 $\pm$ 0.038 χ^2 /NDF: 1051908.0/12

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 167.344 $\pm$ 0.040 χ^2 /NDF: 1502686.6/13

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

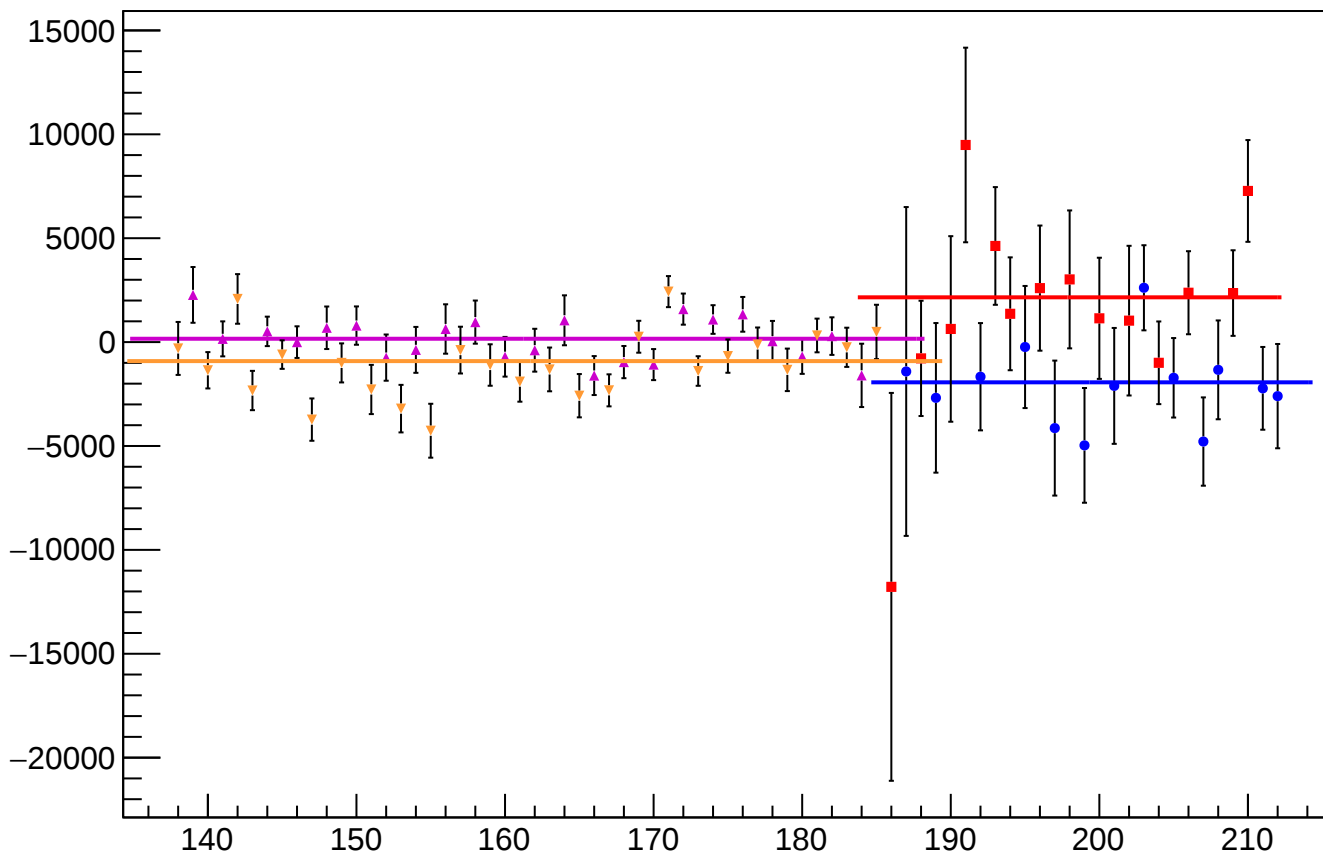
Right: 162.193 $\pm$ 0.028 χ^2 /NDF: 2585185.5/26

In: 102.130 $\pm$ 0.015 χ^2 /NDF: 4206962.2/35

Out: 101.119 $\pm$ 0.014 χ^2 /NDF: 5262313.7/38

All: 101.613 $\pm$ 0.010 χ^2 /NDF: 9471714.8/74

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1936.263+/-701.123 χ^2/NDF : 9.0/12

Left Out: -914.719+/-185.341 χ^2/NDF : 64.2/24

Right Out: 2154.745+/-745.650 χ^2/NDF : 14.0/13

Left In: 161.076+/-189.491 χ^2/NDF : 25.1/22

Left: -388.730+/-132.499 χ^2/NDF : 105.7/47

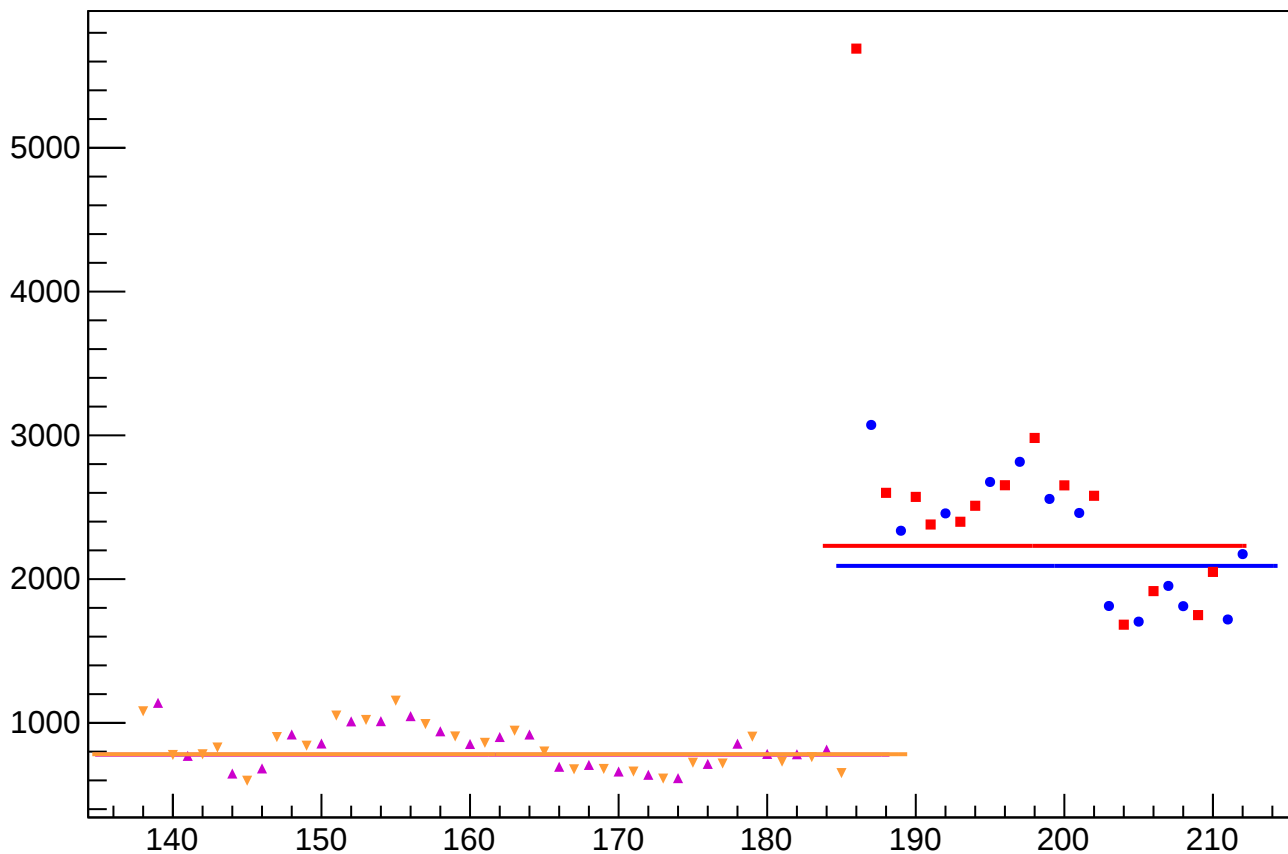
Right: -16.548+/-510.785 χ^2/NDF : 38.9/26

In: 18.306+/-182.927 χ^2/NDF : 42.4/35

Out: -736.112+/-179.868 χ^2/NDF : 94.1/38

All: -365.265+/-128.254 χ^2/NDF : 145.1/74

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2092.106 $\pm$ 0.496 χ^2 /NDF: 577760.8/12

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2231.426 $\pm$ 0.527 χ^2 /NDF: 875324.9/13

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

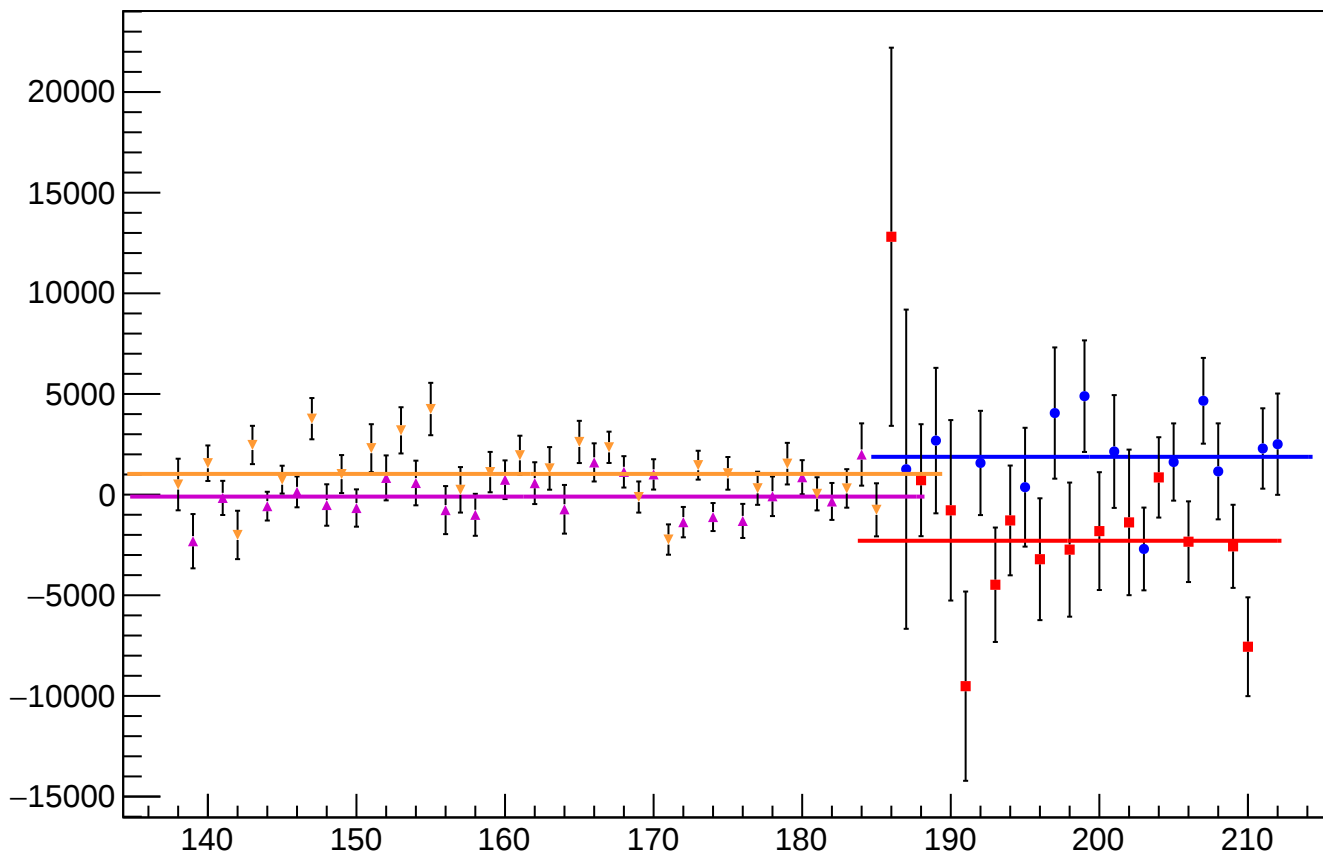
Right: 2157.482 $\pm$ 0.361 χ^2 /NDF: 1490143.0/26

In: 868.381 $\pm$ 0.129 χ^2 /NDF: 8095726.9/35

Out: 866.379 $\pm$ 0.127 χ^2 /NDF: 9123208.1/38

All: 867.363 $\pm$ 0.091 χ^2 /NDF: 17219056.7/74

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1877.810 $\pm$ 703.378 χ^2 /NDF: 8.8/12

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -2291.995 $\pm$ 748.082 χ^2 /NDF: 14.3/13

Left In: -98.691 $\pm$ 191.027 χ^2 /NDF:25.4/22

Left: 477.669 $\pm$ 133.561 χ^2 /NDF: 103.3/47

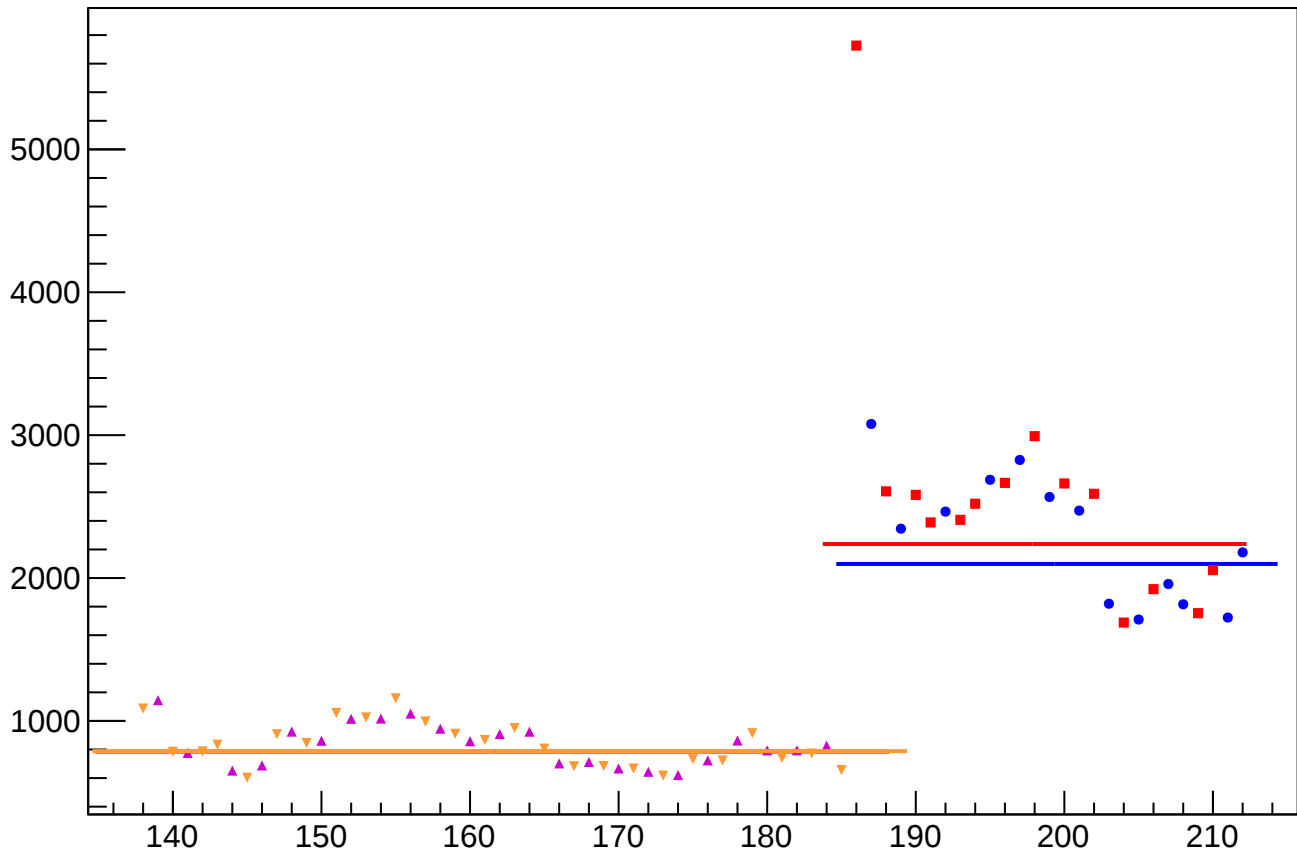
Right: -78.789 $\pm$ 512.439 χ^2 /NDF: 39.6/26

In: 37.078 $\pm$ 184.349 χ^2 /NDF:41.6/35

Out: 833.932 $\pm$ 181.245 χ^2 /NDF:93.0/38

All: 442.272 $\pm$ 129.243 χ^2 /NDF: 144.1/74

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2098.684 $\pm$ 0.497 χ^2 /NDF: 580304.4/12

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF: 1113741.6/24

Right Out: 2238.474 $\pm$ 0.529 χ^2 /NDF: 879199.0/13

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

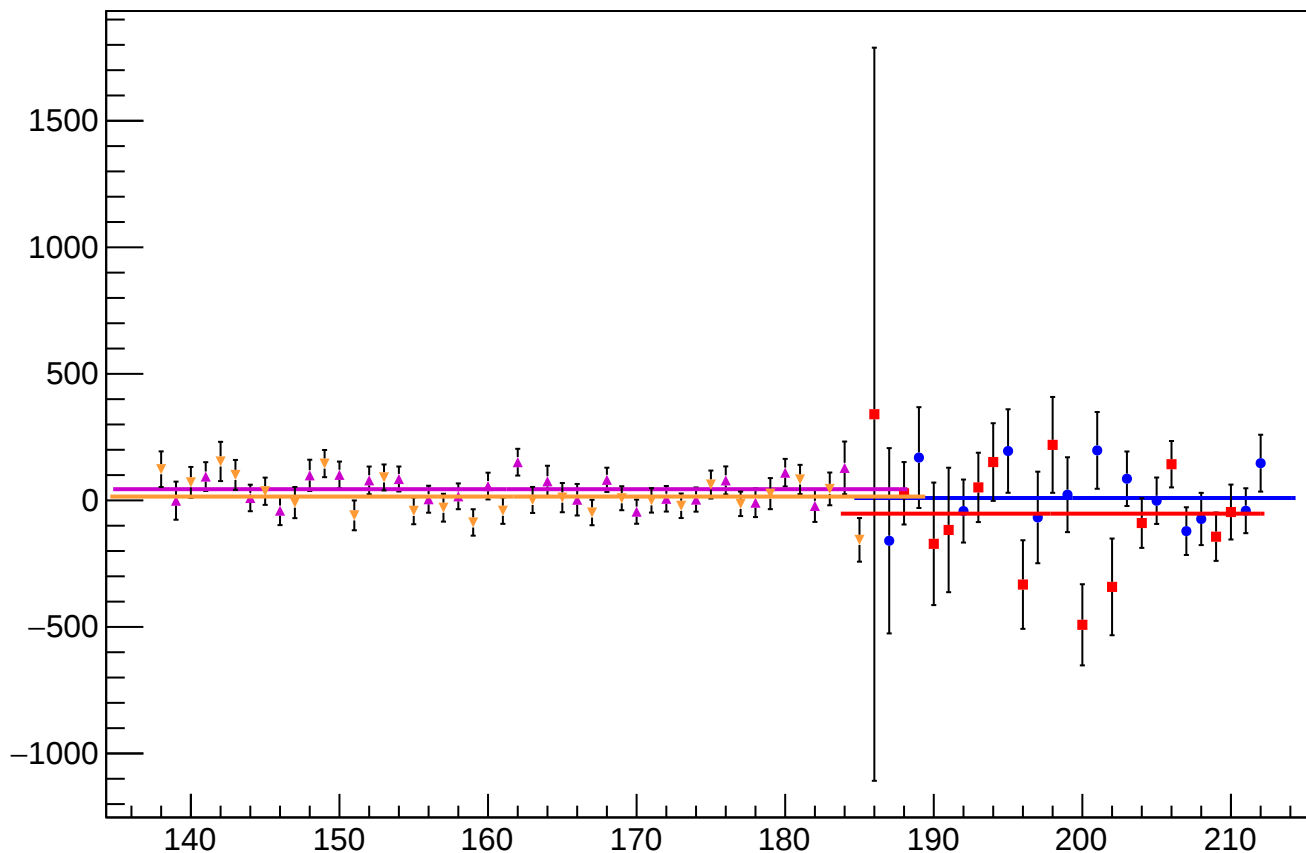
Right: 2164.278 $\pm$ 0.362 χ^2 /NDF: 1496570.7/26

In: 875.696 $\pm$ 0.130 χ^2 /NDF: 8038006.9/35

Out: 873.558 $\pm$ 0.128 χ^2 /NDF: 9066136.3/38

All: 874.609 $\pm$ 0.091 χ^2 /NDF: 17104280.1/74

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 9.422 ± 33.879 $\chi^2/\text{NDF}: 8.9/12$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -52.437 ± 36.765 $\chi^2/\text{NDF}: 23.2/13$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

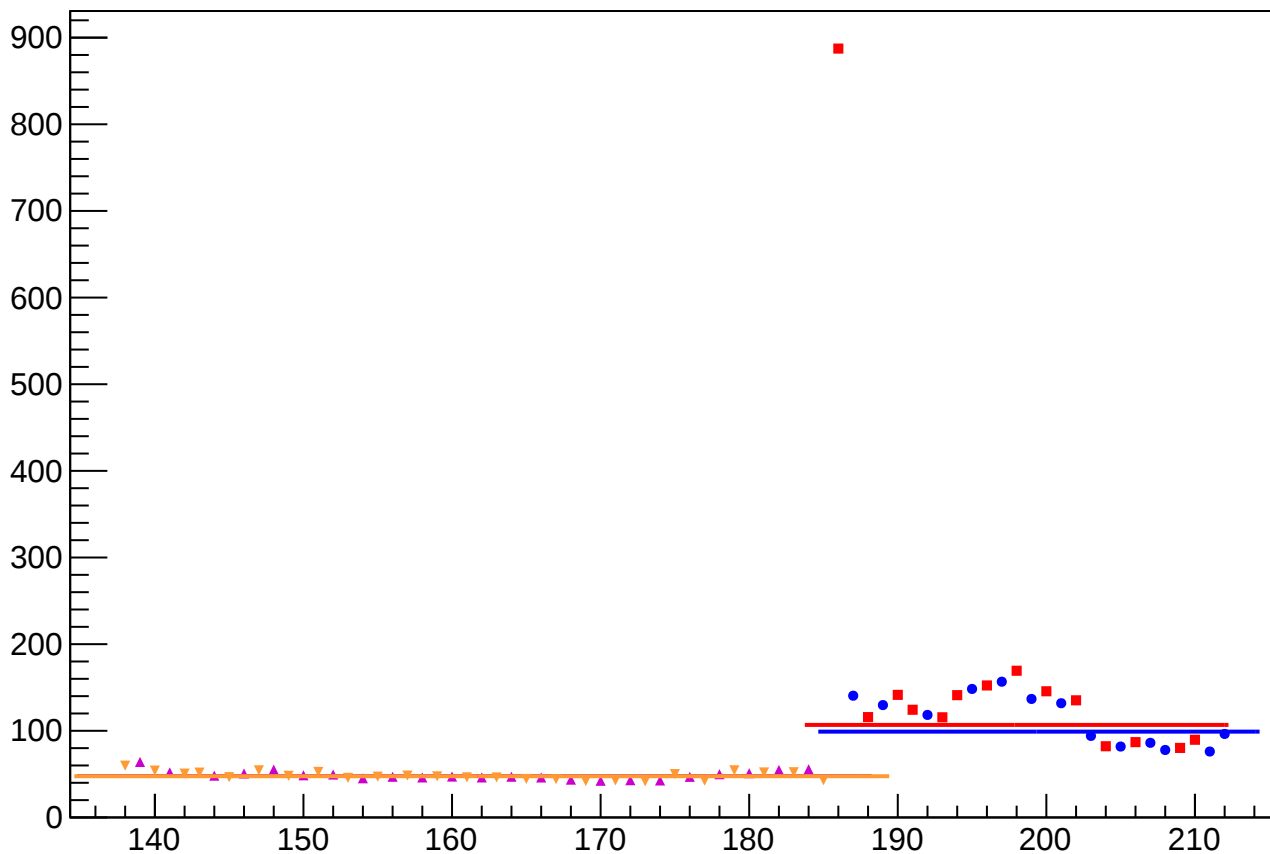
Right: -18.985 ± 24.914 $\chi^2/\text{NDF}: 33.6/26$

In: 40.677 ± 10.915 $\chi^2/\text{NDF}: 32.2/35$

Out: 9.406 ± 10.674 $\chi^2/\text{NDF}: 60.5/38$

All: 24.693 ± 7.631 $\chi^2/\text{NDF}: 96.8/74$

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 99.058 $\pm$ 0.024 χ^2 /NDF: 1057151.0/12

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF: 312874.8/24

Right Out: 106.804 $\pm$ 0.026 χ^2 /NDF: 1690058.4/13

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

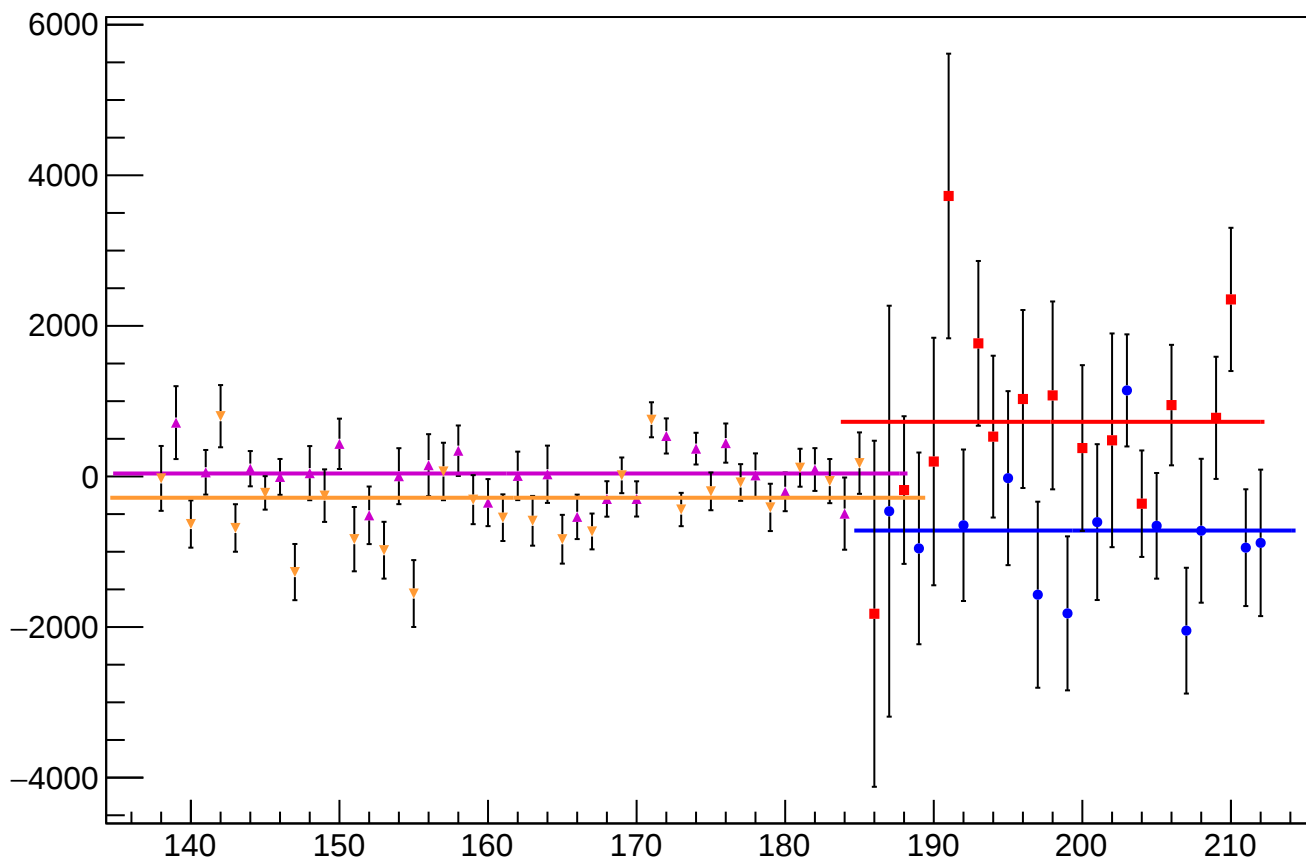
Right: 102.615 $\pm$ 0.018 χ^2 /NDF: 2795229.3/26

In: 53.162 $\pm$ 0.008 χ^2 /NDF: 5434571.8/35

Out: 52.578 $\pm$ 0.008 χ^2 /NDF: 6754488.6/38

All: 52.863 $\pm$ 0.005 χ^2 /NDF: 12191986.8/74

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -718.358 ± 266.178 $\chi^2/\text{NDF}: 11.0/12$

Left Out: -282.798 ± 59.690 $\chi^2/\text{NDF}: 66.5/24$

Right Out: 725.727 ± 283.451 $\chi^2/\text{NDF}: 11.3/13$

Left In: 39.432 ± 60.759 $\chi^2/\text{NDF}: 27.5/22$

Left: -124.543 ± 42.580 $\chi^2/\text{NDF}: 108.4/47$

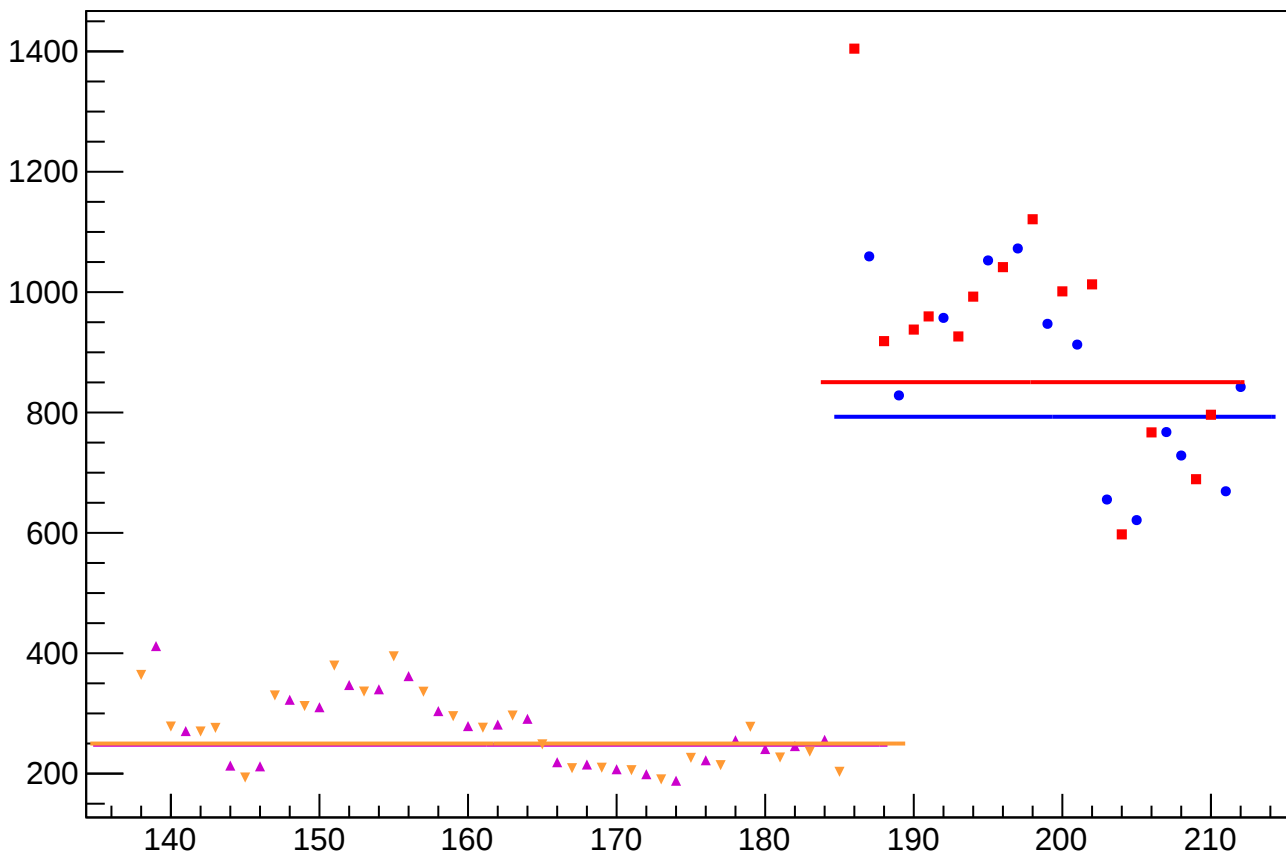
Right: -41.654 ± 194.036 $\chi^2/\text{NDF}: 36.0/26$

In: 1.903 ± 59.235 $\chi^2/\text{NDF}: 46.2/35$

Out: -239.975 ± 58.409 $\chi^2/\text{NDF}: 89.9/38$

All: -120.735 ± 41.590 $\chi^2/\text{NDF}: 144.6/74$

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 792.924 $\pm$ 0.188 χ^2 /NDF: 604907.6/12

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF: 1614205.9/24

Right Out: 850.413 $\pm$ 0.200 χ^2 /NDF: 756189.9/13

Left In: 247.917 $\pm$ 0.043 χ^2 /NDF: 1410847.5/22

Left: 248.955 $\pm$ 0.030 χ^2 /NDF: 3026200.1/47

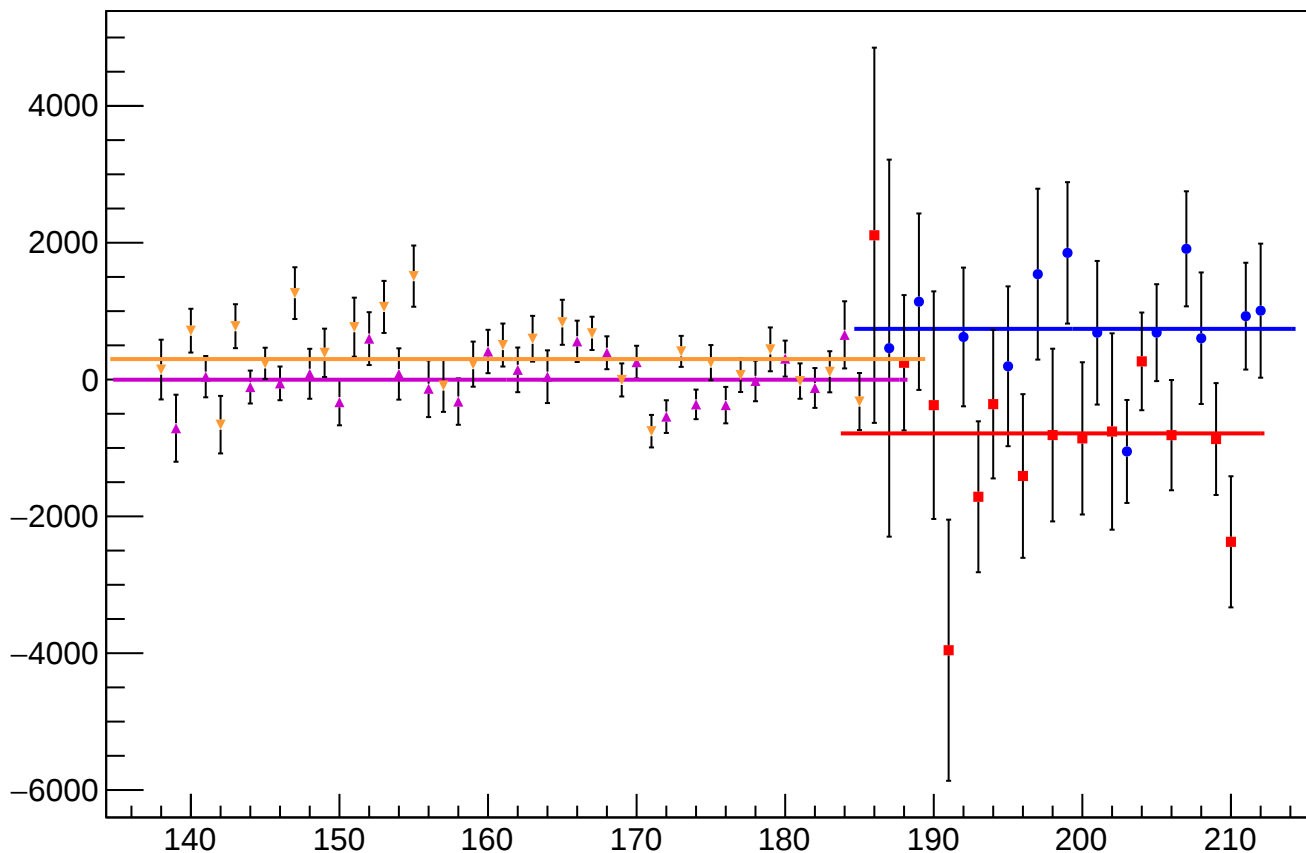
Right: 819.863 $\pm$ 0.137 χ^2 /NDF: 1404816.7/26

In: 274.908 $\pm$ 0.042 χ^2 /NDF: 9985233.6/35

Out: 275.453 $\pm$ 0.041 χ^2 /NDF: 10964334.6/38

All: 275.184 $\pm$ 0.029 χ^2 /NDF: 20949654.1/74

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 741.034+/-268.625 χ^2/NDF : 9.7/12

Left Out: 299.562+/-60.860 χ^2/NDF : 62.5/24

Right Out: -787.047+/-286.704 χ^2/NDF : 11.1/13

Left In: -2.185+/-62.005 χ^2/NDF : 29.2/22

Left: 151.501+/-43.433 χ^2/NDF : 103.7/47

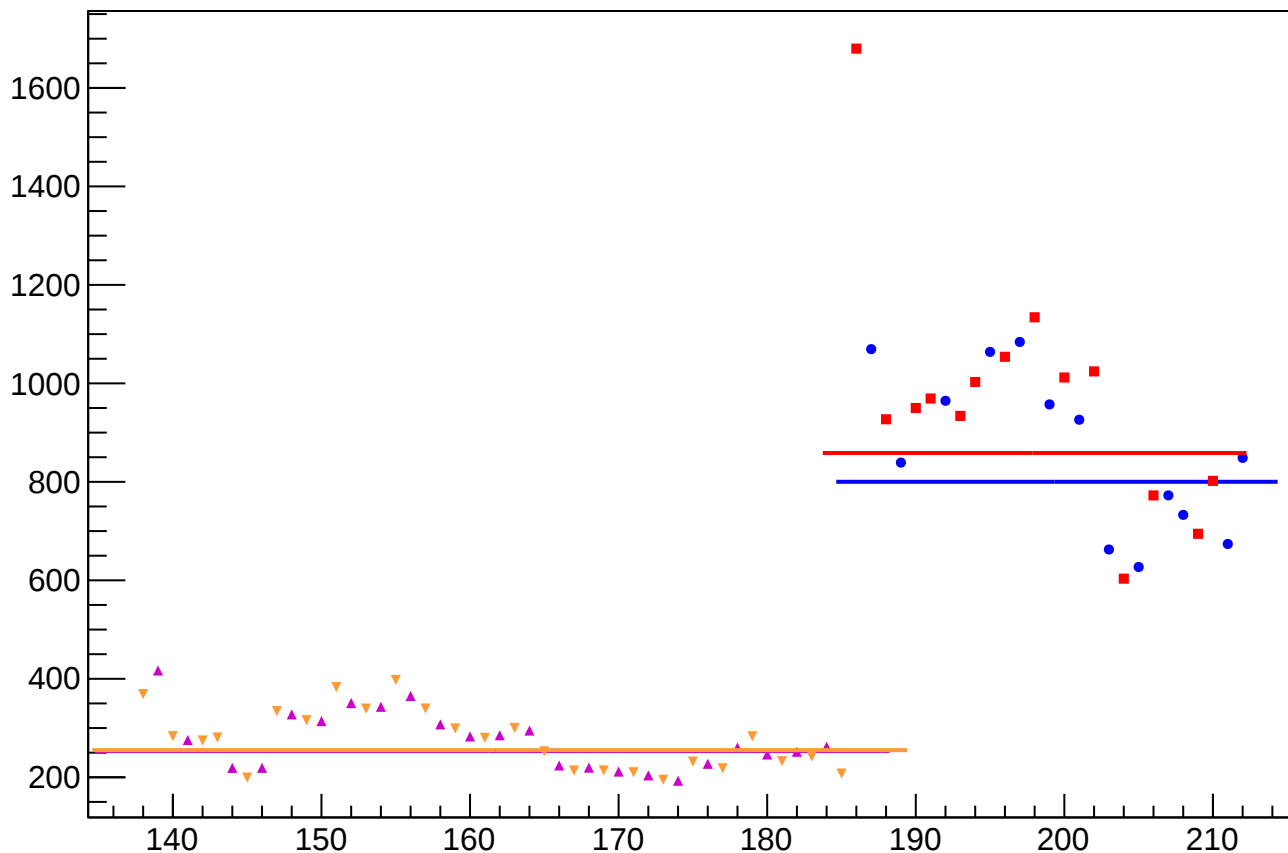
Right: 26.688+/-196.026 χ^2/NDF : 35.9/26

In: 35.410+/-60.416 χ^2/NDF : 46.1/35

Out: 252.711+/-59.533 χ^2/NDF : 87.3/38

All: 145.660+/-42.405 χ^2/NDF : 140.0/74

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 800.113+/-0.190 χ^2/NDF : 609416.4/12

Left Out: 255.135+/-0.043 χ^2/NDF : 1542039.5/24

Right Out: 858.628+/-0.203 χ^2/NDF : 825424.8/13

Left In: 253.287+/-0.044 χ^2/NDF : 1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47

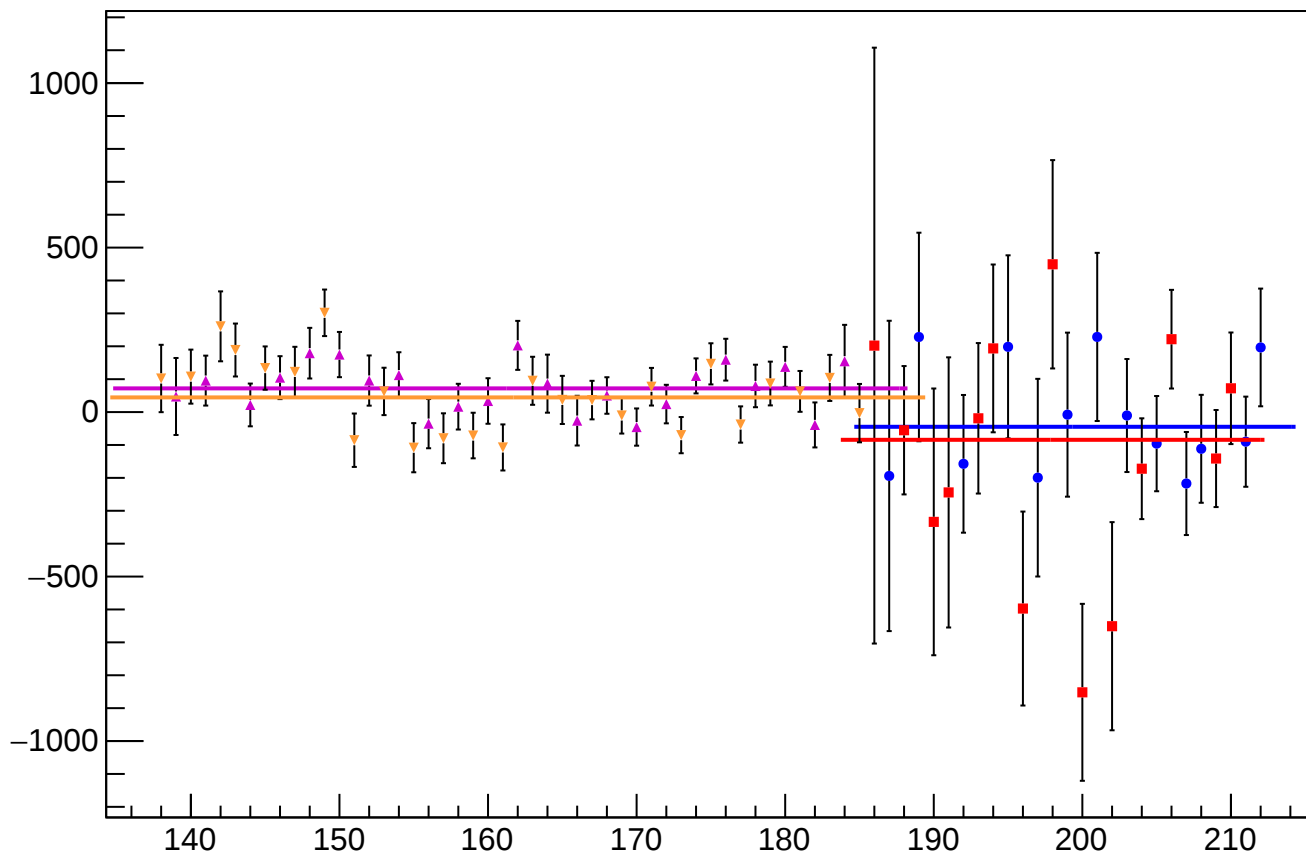
Right: 827.467+/-0.139 χ^2/NDF : 1479205.6/26

In: 280.948+/-0.043 χ^2/NDF : 9819567.1/35

Out: 281.156+/-0.042 χ^2/NDF : 10846868.9/38

All: 281.054+/-0.030 χ^2/NDF : 20666448.0/74

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -44.699 ± 54.498 χ^2/NDF : 6.8/12

Left Out: 44.602 ± 13.824 χ^2/NDF : 53.9/24

Right Out: -84.290 ± 59.022 χ^2/NDF : 24.6/13

Left In: 72.037 ± 14.296 χ^2/NDF : 25.3/22

Left: 57.859 ± 9.938 χ^2/NDF : 81.1/47

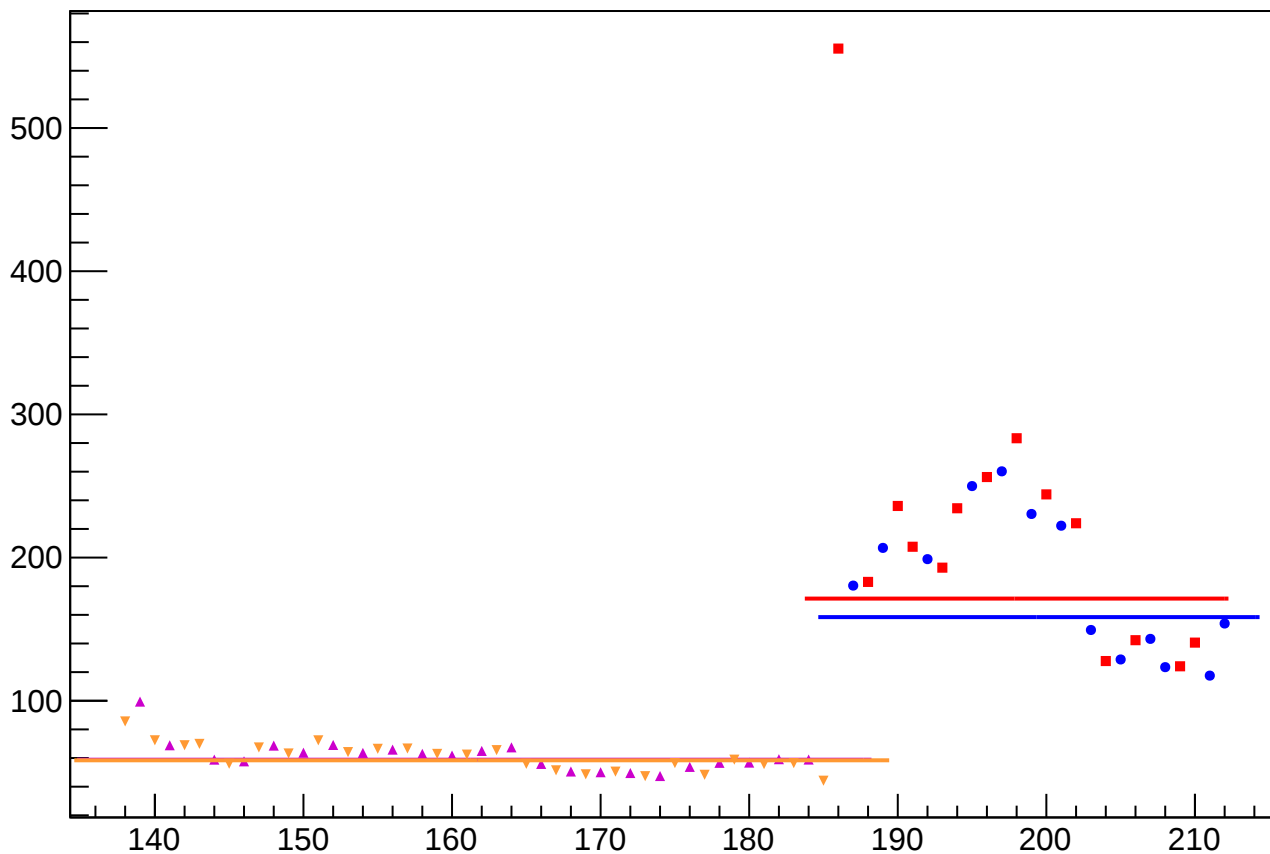
Right: -62.919 ± 40.040 χ^2/NDF : 31.7/26

In: 64.521 ± 13.828 χ^2/NDF : 36.4/35

Out: 37.899 ± 13.460 χ^2/NDF : 83.1/38

All: 50.850 ± 9.645 χ^2/NDF : 121.4/74

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 158.427+/-0.039 χ^2/NDF : 1241288.1/12

Left Out: 58.423+/-0.010 χ^2/NDF : 790091.3/24

Right Out: 171.362+/-0.042 χ^2/NDF : 1699588.9/13

Left In: 58.840+/-0.010 χ^2/NDF : 679925.7/22

Left: 58.624+/-0.007 χ^2/NDF : 1470896.0/47

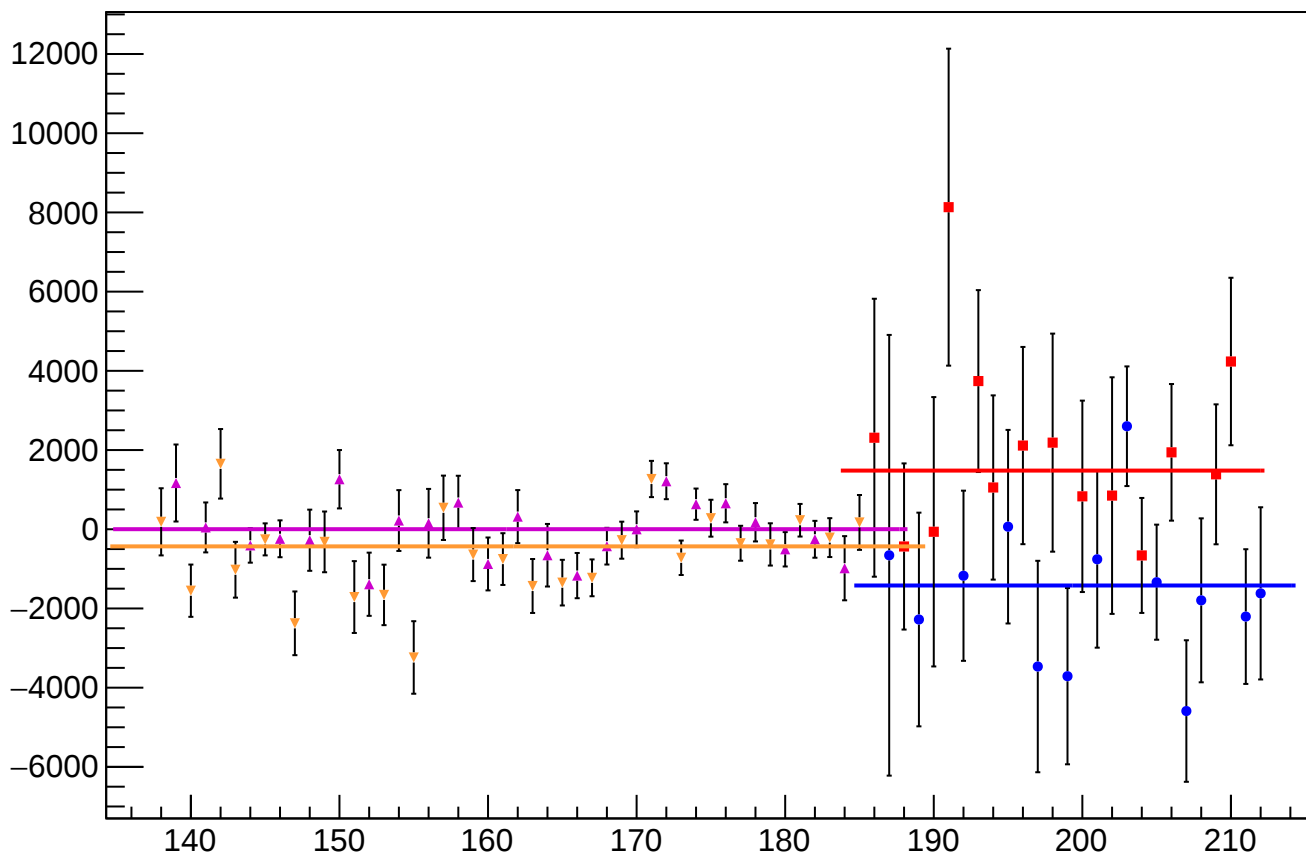
Right: 164.380+/-0.028 χ^2/NDF : 2992731.7/26

In: 65.252+/-0.010 χ^2/NDF : 8169743.2/35

Out: 64.297+/-0.010 χ^2/NDF : 9432020.7/38

All: 64.761+/-0.007 χ^2/NDF : 17606664.3/74

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1420.001 $\pm$ 566.809 χ^2 /NDF: 12.7/12

Left Out: -432.330 $\pm$ 114.408 χ^2 /NDF:59.4/24

Right Out: 1481.420 $\pm$ 601.604 χ^2 /NDF: 9.1/13

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

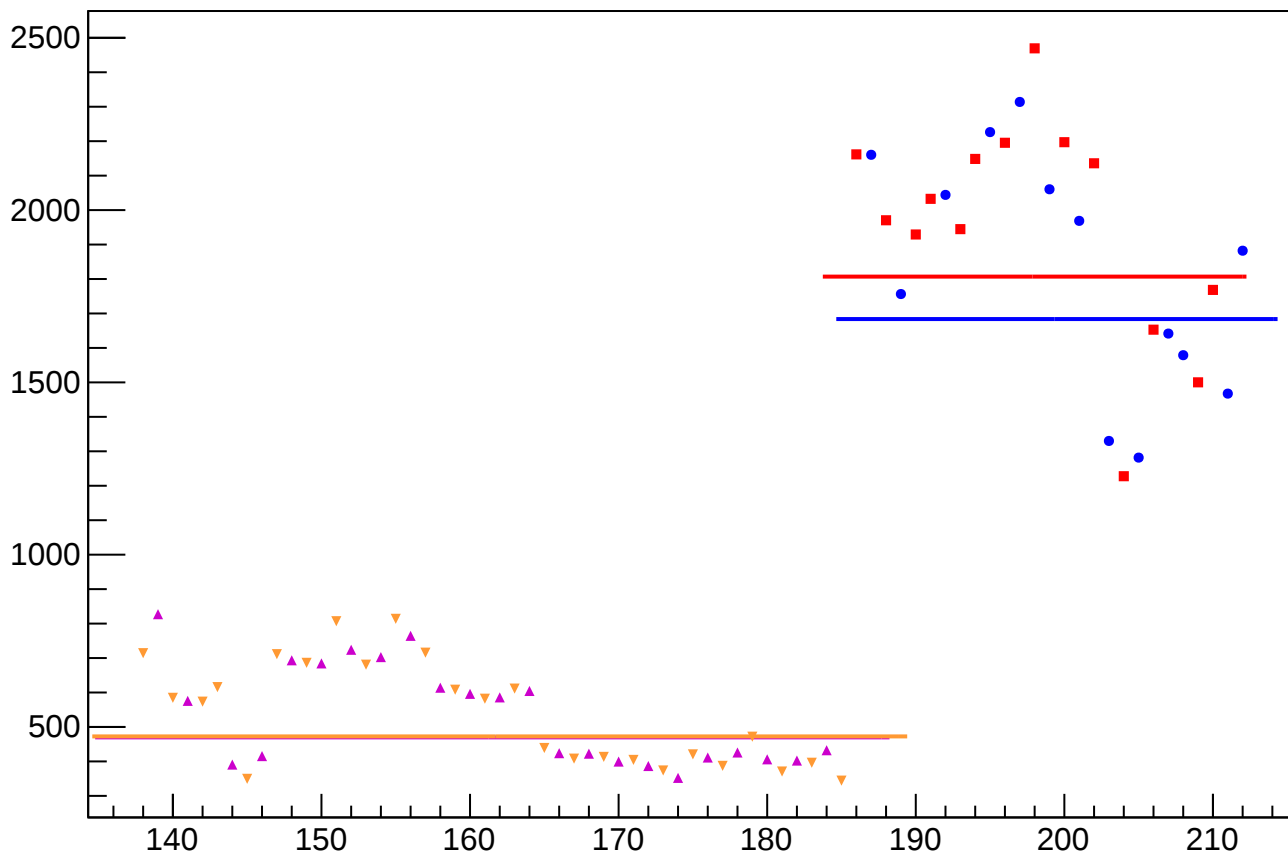
Right: -55.618 $\pm$ 412.547 χ^2 /NDF: 34.1/26

In: -55.767 $\pm$ 114.076 χ^2 /NDF:51.1/35

Out: -365.535 $\pm$ 112.394 χ^2 /NDF:78.2/38

All: -212.951 $\pm$ 80.062 χ^2 /NDF: 133.0/74

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1683.787 $\pm$ 0.401 χ^2 /NDF: 690463.2/12

Left Out: 472.569 $\pm$ 0.081 χ^2 /NDF: 2508168.9/24

Right Out: 1806.977 $\pm$ 0.425 χ^2 /NDF: 728084.8/13

Left In: 469.761 $\pm$ 0.082 χ^2 /NDF: 2116885.7/22

Left: 471.190 $\pm$ 0.058 χ^2 /NDF: 4625646.2/47

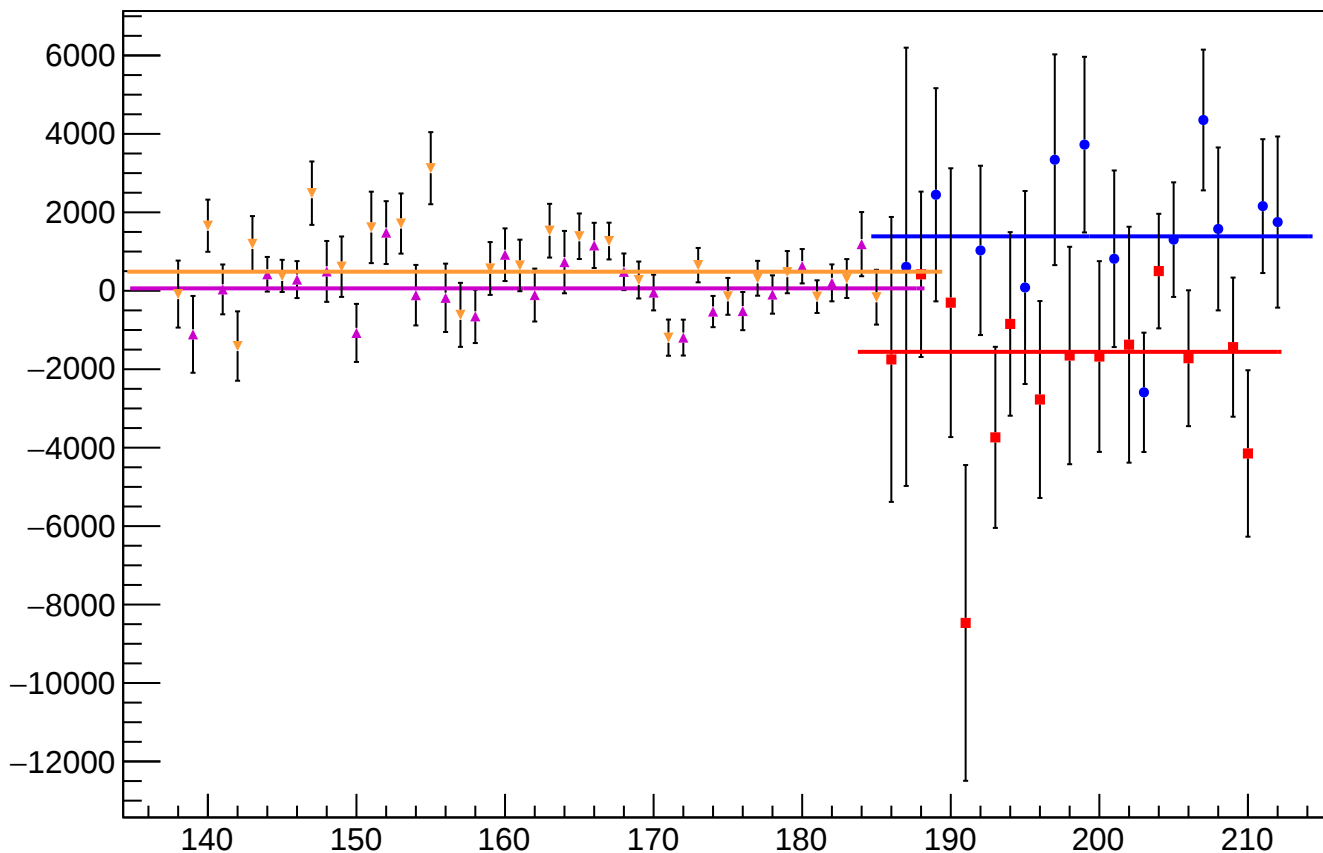
Right: 1741.717 $\pm$ 0.292 χ^2 /NDF: 1462973.8/26

In: 518.936 $\pm$ 0.081 χ^2 /NDF: 11610836.6/35

Out: 519.144 $\pm$ 0.079 χ^2 /NDF: 12732603.6/38

All: 519.041 $\pm$ 0.057 χ^2 /NDF: 24343443.5/74

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1387.686 $\pm$ 569.868 χ^2 /NDF: 12.0/12

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -1556.717 $\pm$ 605.355 χ^2 /NDF: 8.7/13

Left In: 61.775 $\pm$ 117.449 χ^2 /NDF:31.2/22

Left: 278.047 $\pm$ 82.295 χ^2 /NDF: 93.8/47

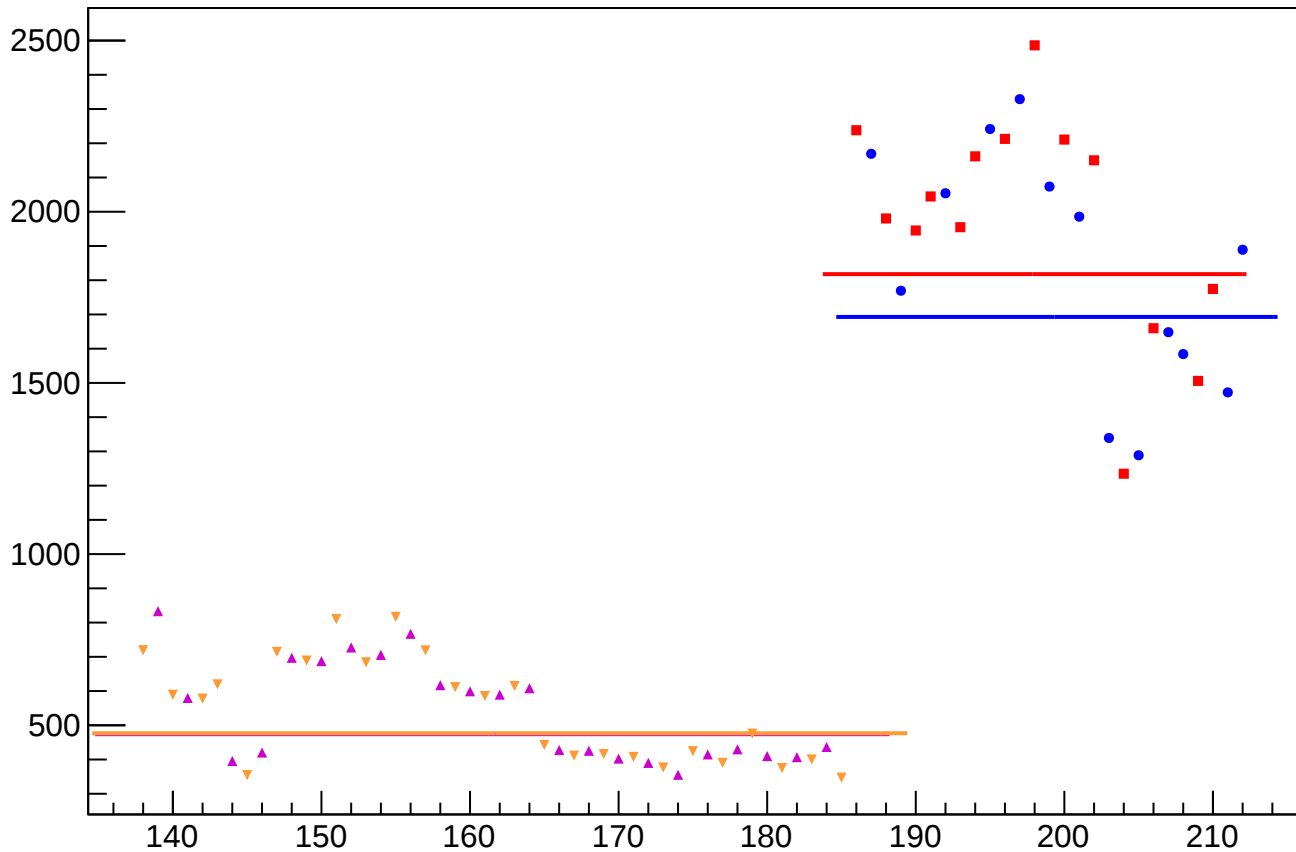
Right: 4.313 $\pm$ 414.936 χ^2 /NDF: 33.2/26

In: 115.800 $\pm$ 115.031 χ^2 /NDF:48.3/35

Out: 415.057 $\pm$ 113.308 χ^2 /NDF:75.7/38

All: 267.687 $\pm$ 80.723 χ^2 /NDF: 127.5/74

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1692.769 $\pm$ 0.403 χ^2 /NDF: 692655.6/12

Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF: 2472737.6/24

Right Out: 1817.759 $\pm$ 0.428 χ^2 /NDF: 738650.4/13

Left In: 473.983 $\pm$ 0.083 χ^2 /NDF: 2087113.7/22

Left: 475.361 $\pm$ 0.058 χ^2 /NDF: 4560392.0/47

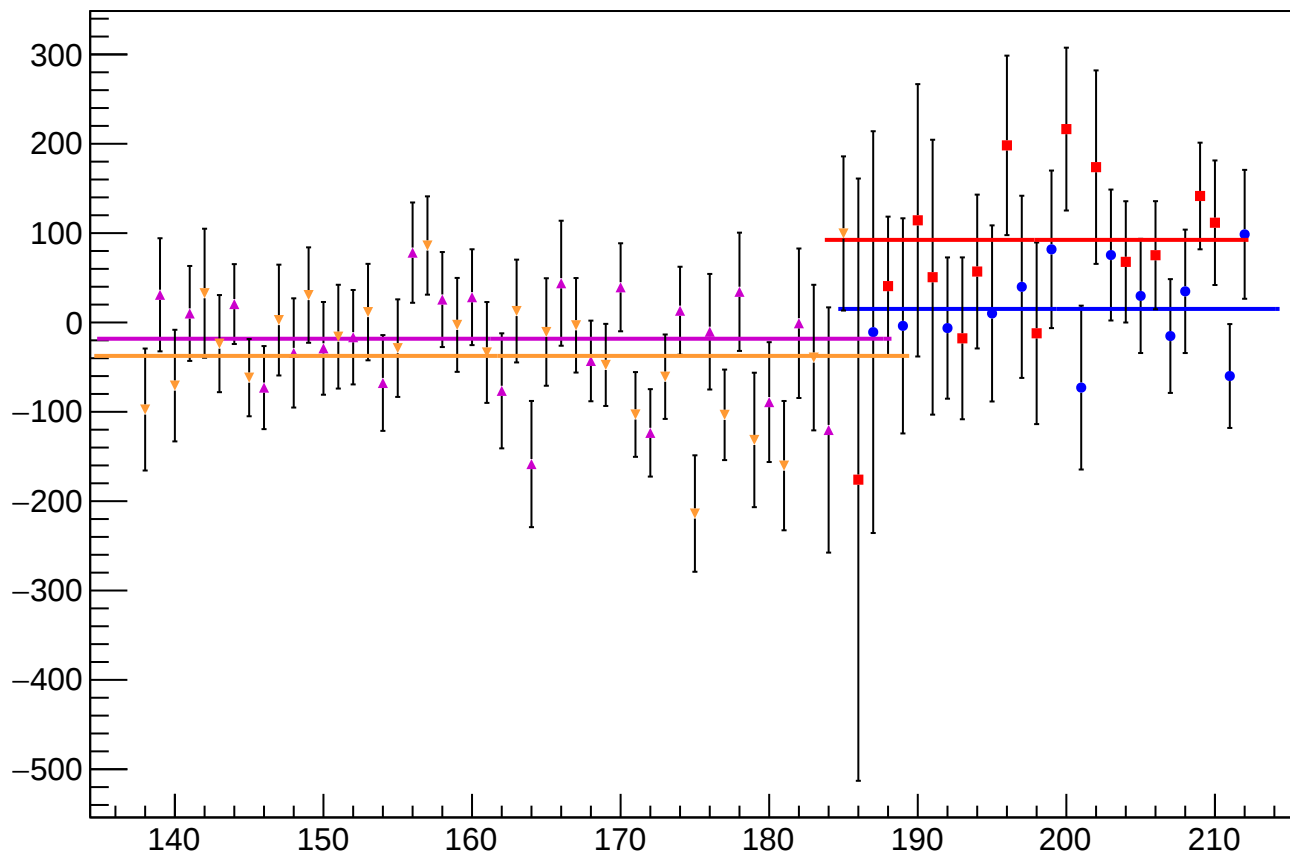
Right: 1751.494 $\pm$ 0.293 χ^2 /NDF: 1476509.4/26

In: 523.644 $\pm$ 0.081 χ^2 /NDF: 11555232.8/35

Out: 523.674 $\pm$ 0.080 χ^2 /NDF: 12682985.1/38

All: 523.659 $\pm$ 0.057 χ^2 /NDF: 24238217.9/74

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 15.160+/-21.973 χ^2/NDF : 5.7/12

Left Out: -37.413+/-11.390 χ^2/NDF : 30.5/24

Right Out: 92.438+/-22.971 χ^2/NDF : 8.4/13

Left In: -18.210+/-11.788 χ^2/NDF : 23.0/22

Left: -28.141+/-8.191 χ^2/NDF : 54.8/47

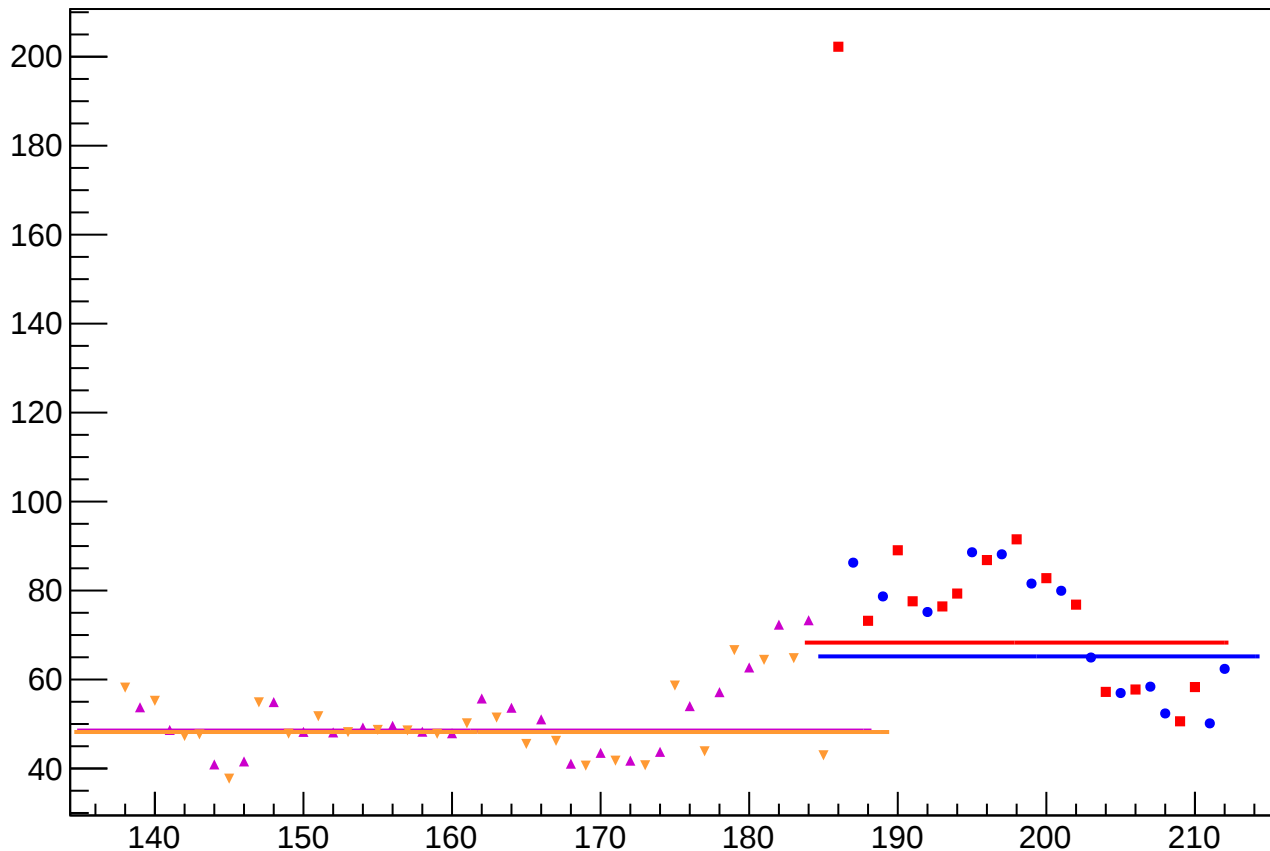
Right: 52.083+/-15.879 χ^2/NDF : 20.0/26

In: -10.753+/-10.387 χ^2/NDF : 30.5/35

Out: -11.790+/-10.204 χ^2/NDF : 64.5/38

All: -11.280+/-7.279 χ^2/NDF : 95.0/74

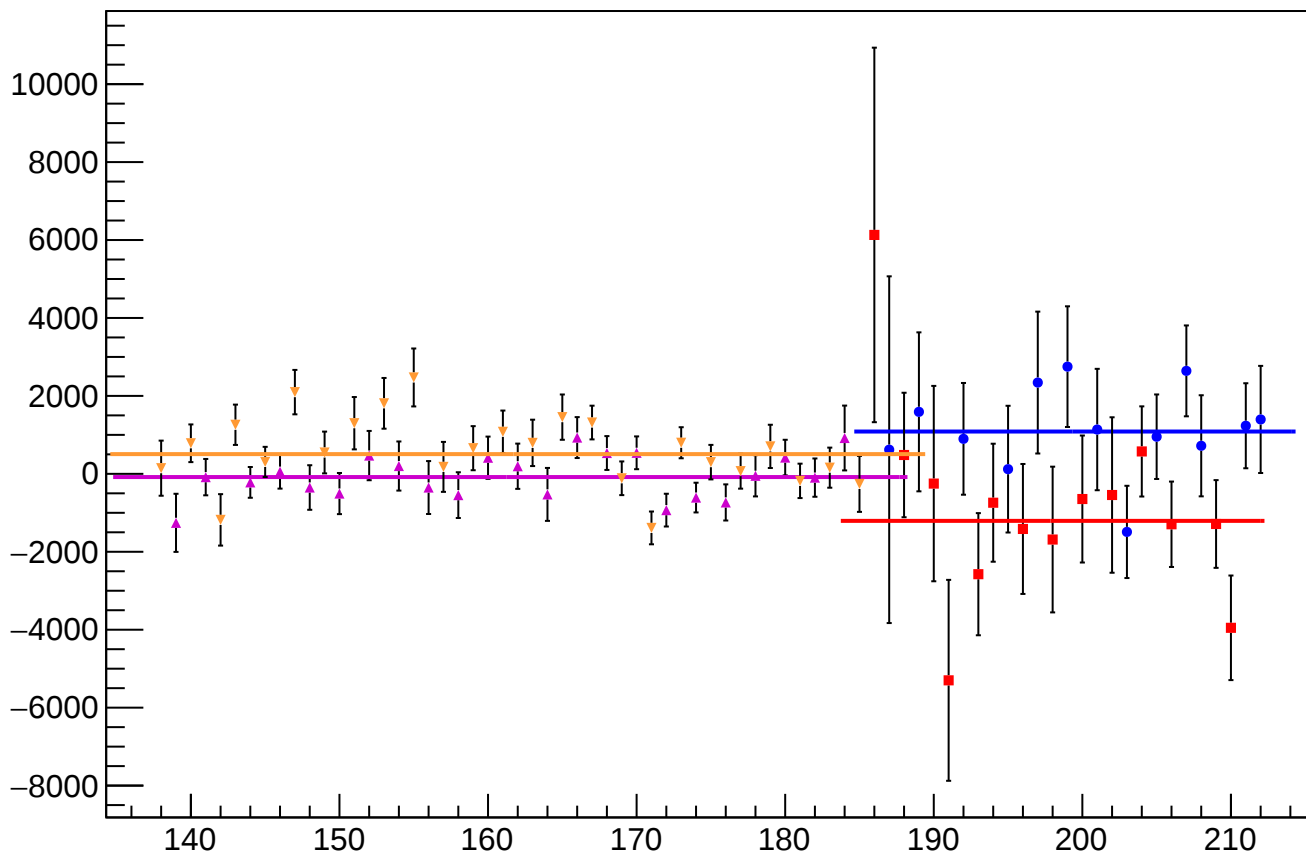
reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 65.197 $\pm$ 0.016 χ^2 /NDF: 671625.8/12
 Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24
 Right Out: 68.299 $\pm$ 0.016 χ^2 /NDF: 983677.6/13
 Left In: 48.527 $\pm$ 0.008 χ^2 /NDF: 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2 /NDF: 1426333.4/47
 Right: 66.679 $\pm$ 0.011 χ^2 /NDF: 1674353.1/26
 In: 52.252 $\pm$ 0.007 χ^2 /NDF: 2240832.4/35
 Out: 52.166 $\pm$ 0.007 χ^2 /NDF: 2962908.7/38
 All: 52.208 $\pm$ 0.005 χ^2 /NDF: 5203811.3/74

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1085.742+/-390.732 χ^2/NDF : 8.8/12

Left Out: 506.205+/-103.468 χ^2/NDF : 65.7/24

Right Out: -1206.790+/-415.714 χ^2/NDF : 13.8/13

Left In: -82.421+/-105.935 χ^2/NDF : 25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

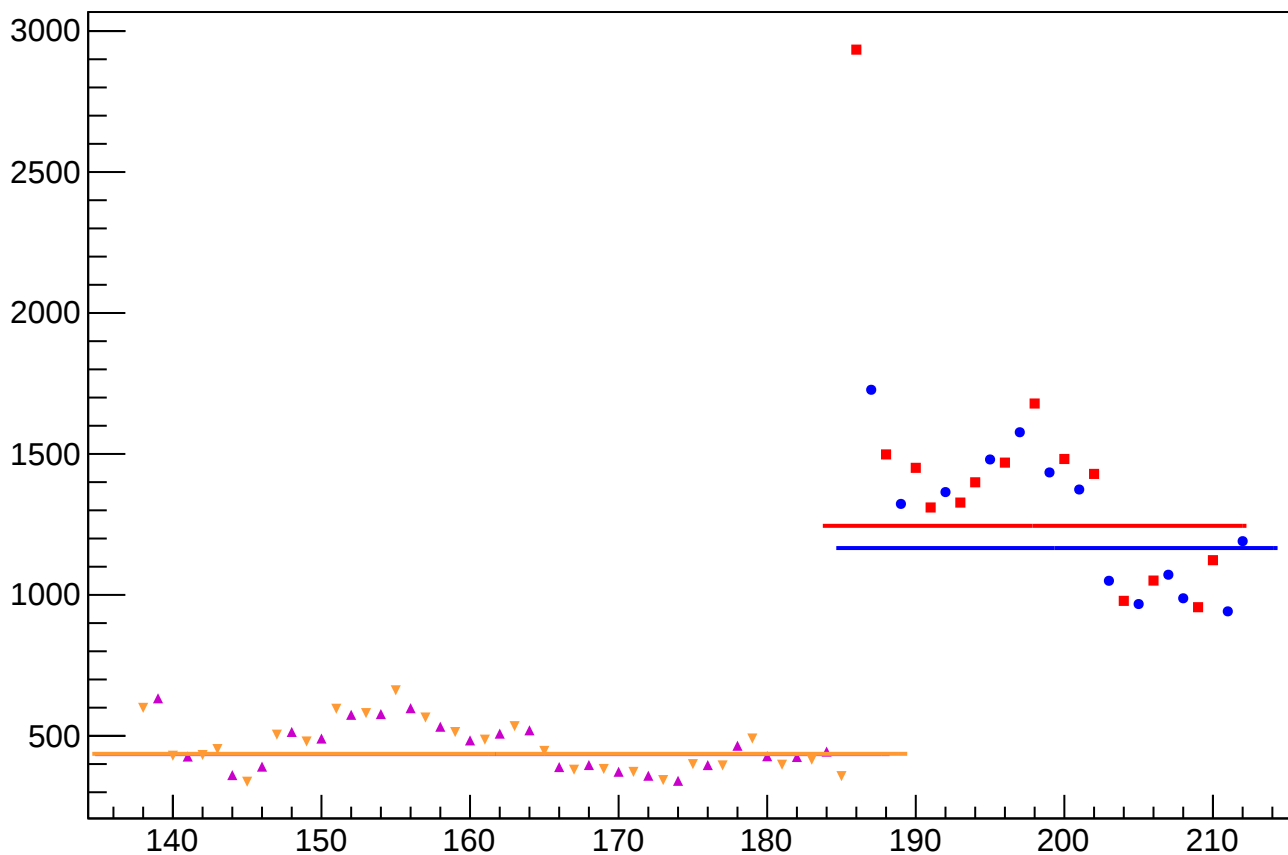
Right: 10.427+/-284.712 χ^2/NDF : 38.8/26

In: -2.433+/-102.244 χ^2/NDF : 42.4/35

Out: 406.280+/-100.405 χ^2/NDF : 95.5/38

All: 205.633+/-71.638 χ^2/NDF : 146.1/74

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1166.184+/-0.276 χ^2/NDF : 576651.7/12

Left Out: 436.301+/-0.073 χ^2/NDF : 1179348.4/24

Right Out: 1245.054+/-0.294 χ^2/NDF : 858381.3/13

Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

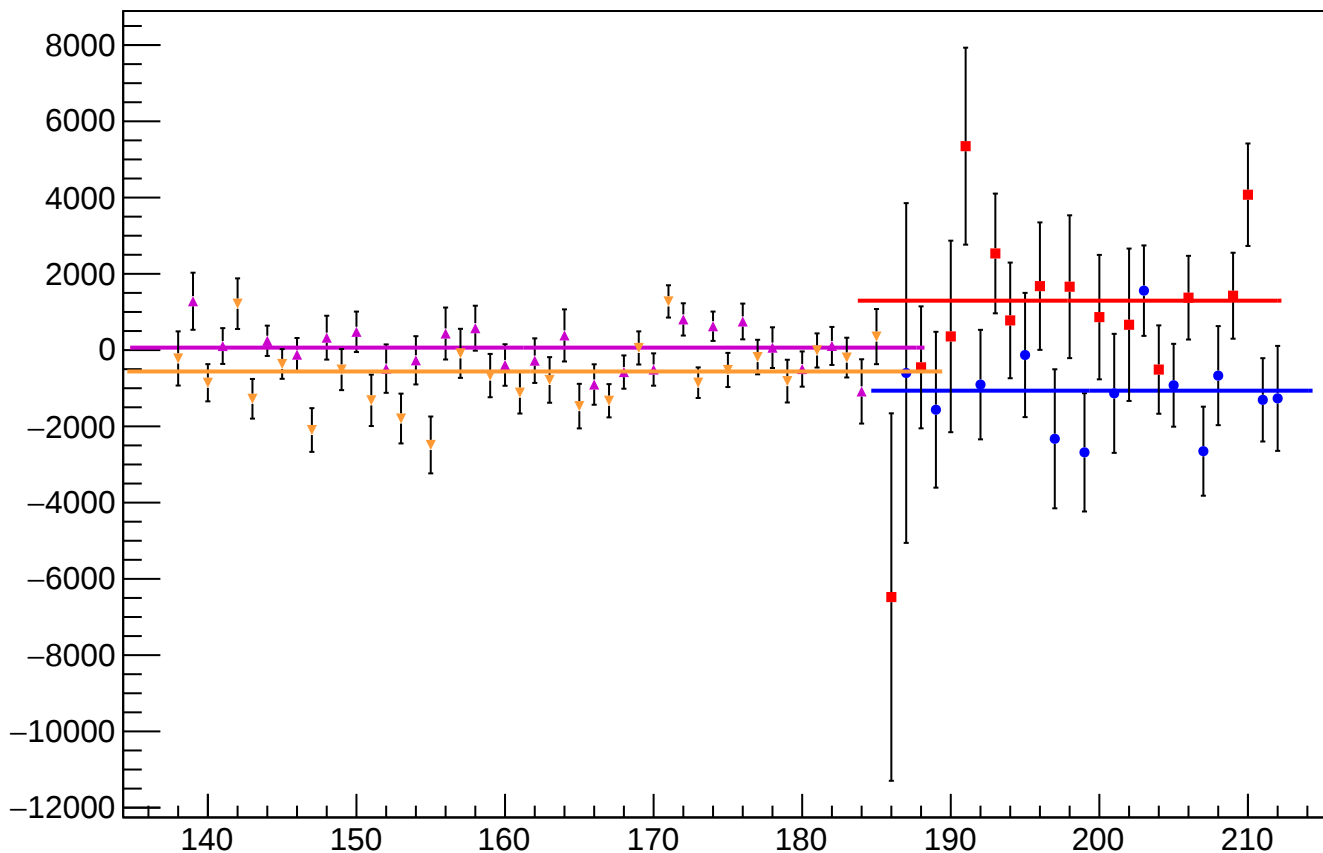
Right: 1203.178+/-0.201 χ^2/NDF : 1473255.1/26

In: 485.322+/-0.072 χ^2/NDF : 8123571.4/35

Out: 483.479+/-0.071 χ^2/NDF : 9165748.3/38

All: 484.384+/-0.051 χ^2/NDF : 17289650.7/74

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1064.303 ± 391.389 χ^2/NDF : 8.9/12

Left Out: -560.684 ± 104.207 χ^2/NDF : 61.8/24

Right Out: 1296.107 ± 416.399 χ^2/NDF : 14.1/13

Left In: 64.594 ± 106.708 χ^2/NDF : 25.2/22

Left: -255.457 ± 74.554 χ^2/NDF : 104.5/47

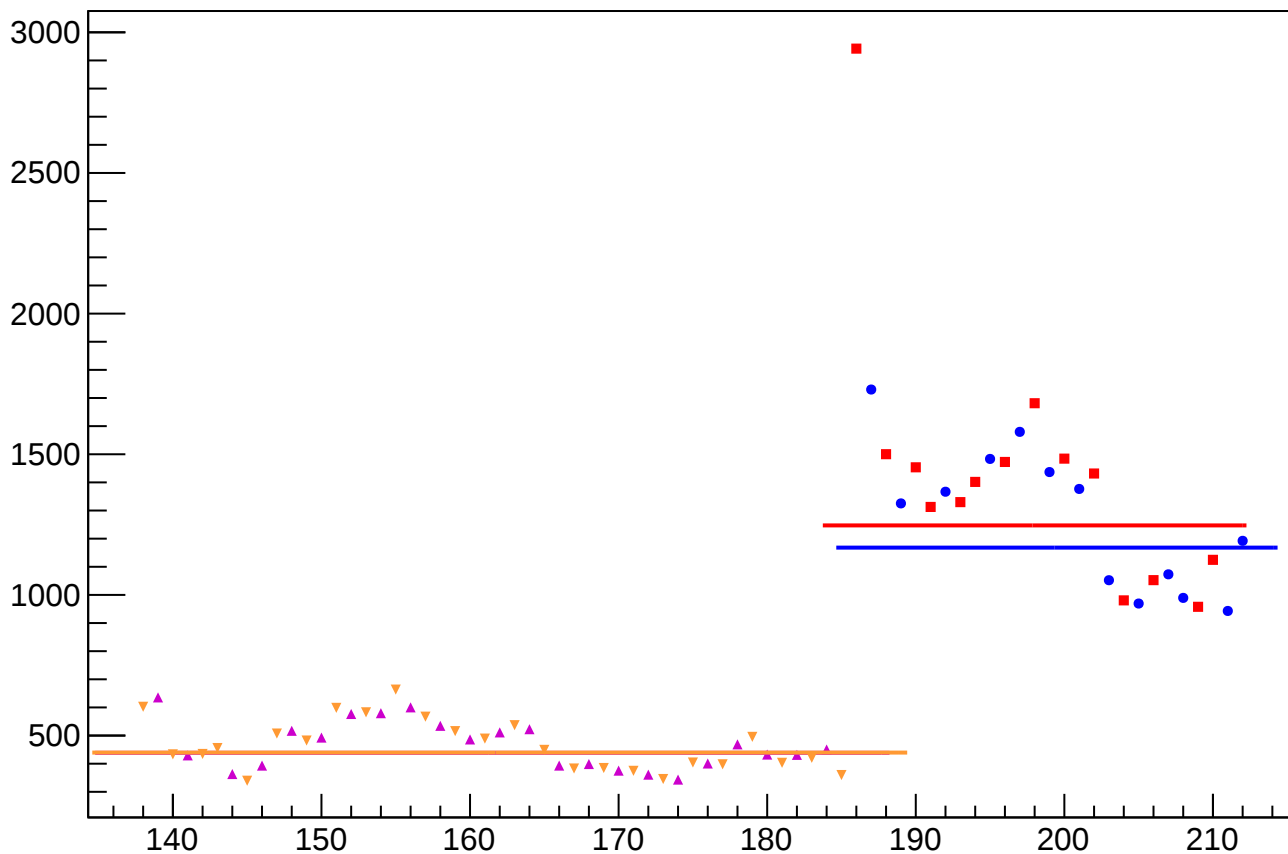
Right: 42.891 ± 285.186 χ^2/NDF : 40.1/26

In: -13.513 ± 102.950 χ^2/NDF : 41.8/35

Out: -451.249 ± 101.090 χ^2/NDF : 94.6/38

All: -236.371 ± 72.130 χ^2/NDF : 145.6/74

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1168.135 $\pm$ 0.277 χ^2 /NDF: 577077.3/12

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF: 1163352.8/24

Right Out: 1247.083 $\pm$ 0.294 χ^2 /NDF: 859088.2/13

Left In: 438.548 $\pm$ 0.075 χ^2 /NDF: 1013071.4/22

Left: 439.049 $\pm$ 0.053 χ^2 /NDF: 2176510.4/47

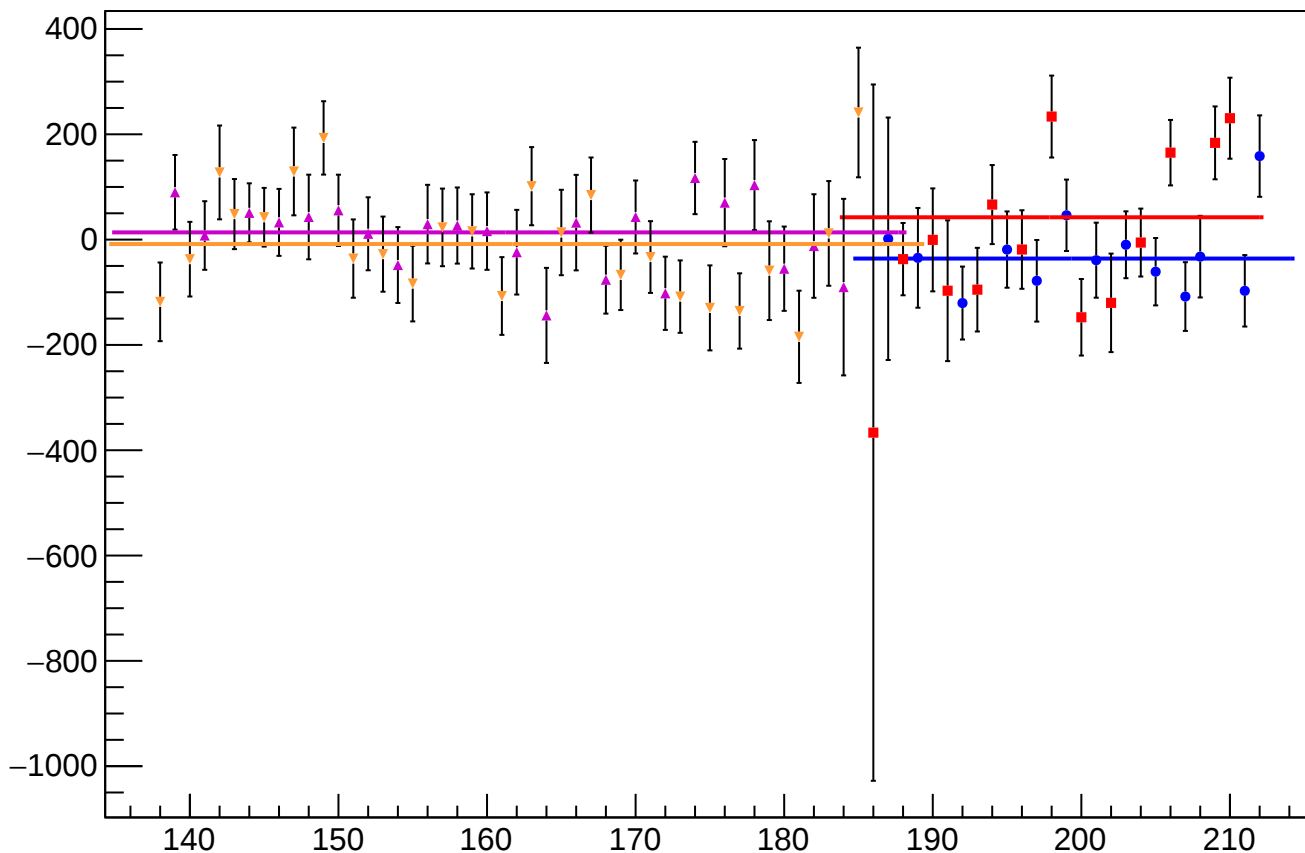
Right: 1205.167 $\pm$ 0.202 χ^2 /NDF: 1474336.0/26

In: 489.027 $\pm$ 0.073 χ^2 /NDF: 8059044.4/35

Out: 487.123 $\pm$ 0.071 χ^2 /NDF: 9101491.1/38

All: 488.057 $\pm$ 0.051 χ^2 /NDF: 17160883.9/74

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -35.977 ± 20.464 χ^2/NDF : 12.0/12

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: 42.406 ± 21.146 χ^2/NDF : 37.3/13

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

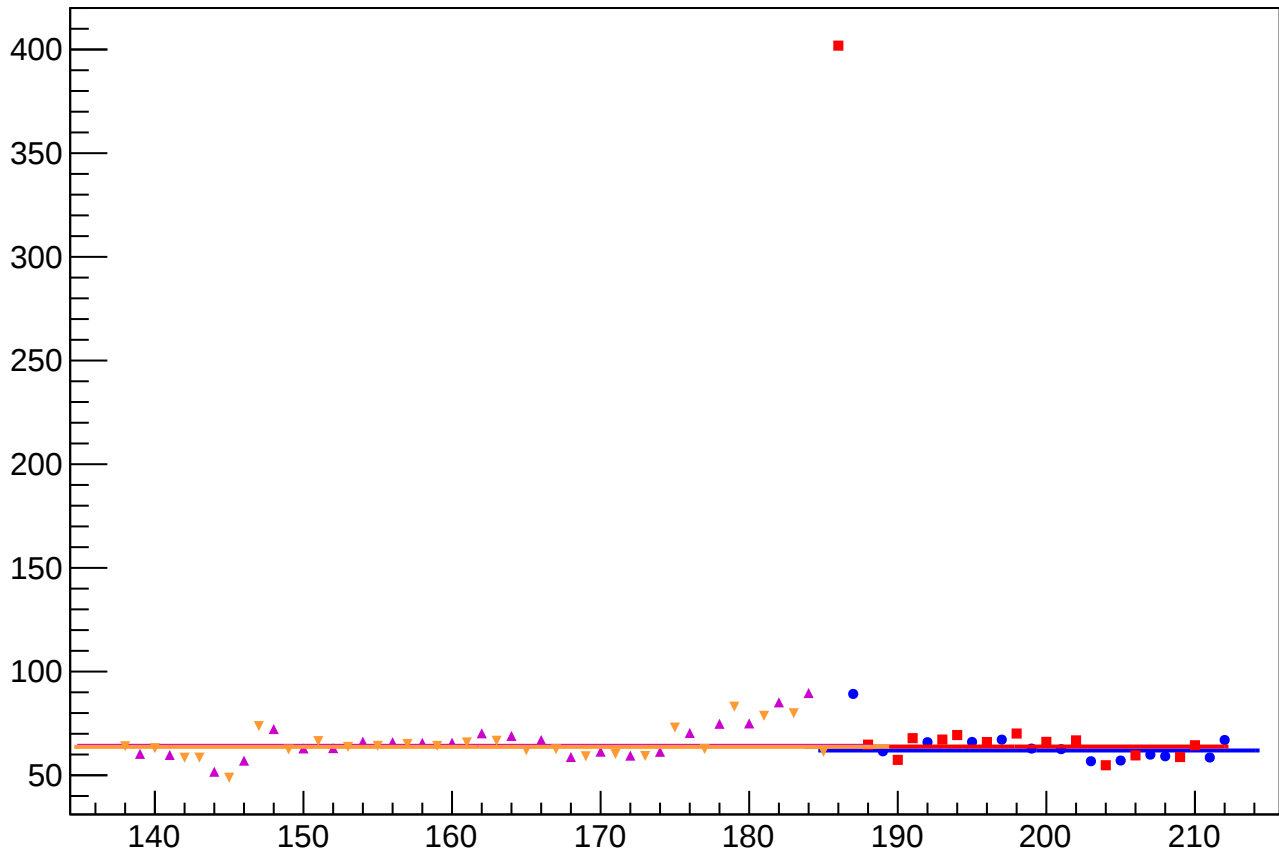
Right: 1.930 ± 14.705 χ^2/NDF : 56.4/26

In: -4.363 ± 12.345 χ^2/NDF : 32.0/35

Out: 8.498 ± 12.199 χ^2/NDF : 82.7/38

All: 2.144 ± 8.677 χ^2/NDF : 115.3/74

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.941 $\pm$ 0.014 χ^2 /NDF: 93568.4/12

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 63.848 $\pm$ 0.015 χ^2 /NDF: 626102.0/13

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

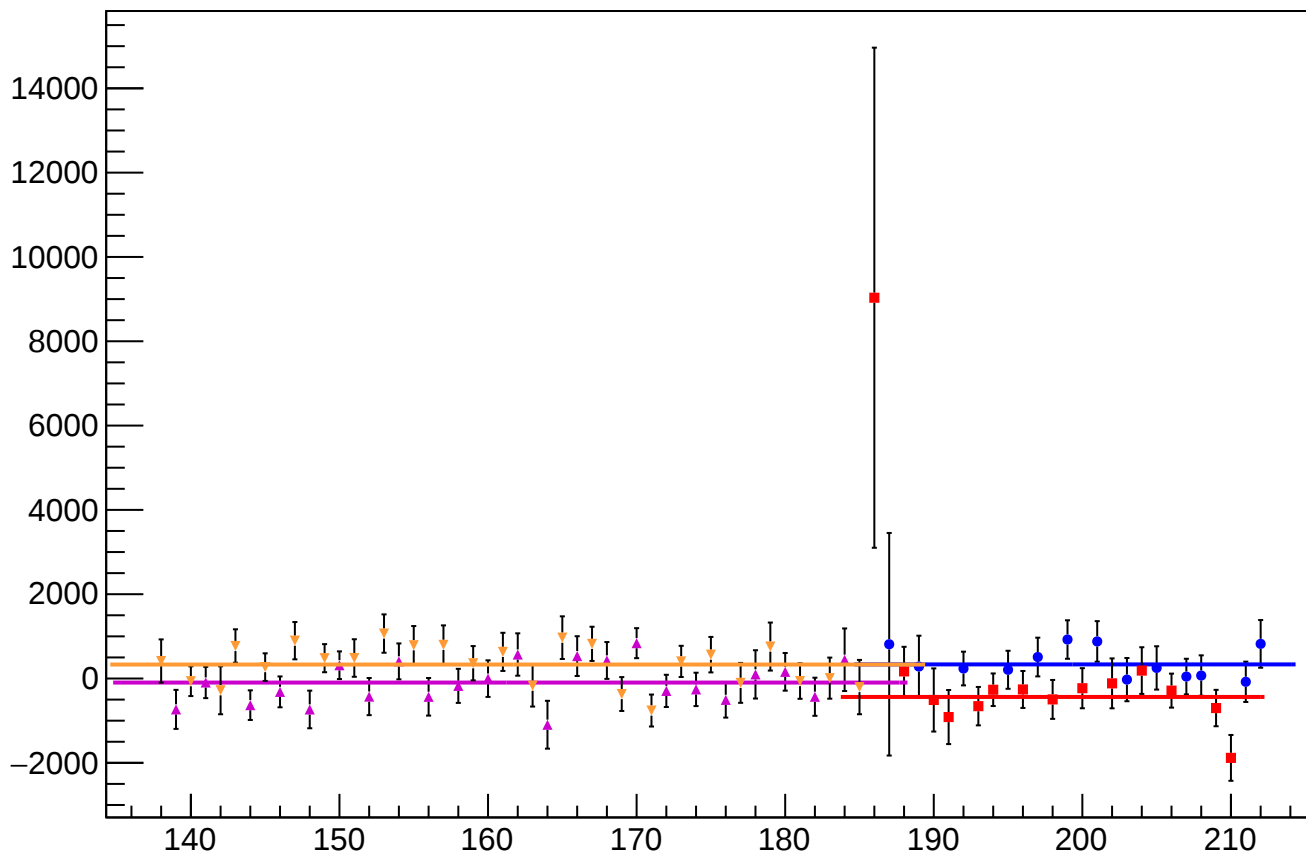
Right: 62.863 $\pm$ 0.010 χ^2 /NDF: 728072.9/26

In: 63.371 $\pm$ 0.009 χ^2 /NDF: 538593.8/35

Out: 63.747 $\pm$ 0.009 χ^2 /NDF: 1074610.6/38

All: 63.561 $\pm$ 0.006 χ^2 /NDF: 1614141.3/74

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 334.953 ± 138.557 χ^2/NDF : 6.1/12

Left Out: 331.739 ± 86.071 χ^2/NDF : 29.9/24

Right Out: -437.254 ± 136.043 χ^2/NDF : 14.1/13

Left In: -95.910 ± 88.656 χ^2/NDF : 28.7/22

Left: 124.240 ± 61.755 χ^2/NDF : 70.5/47

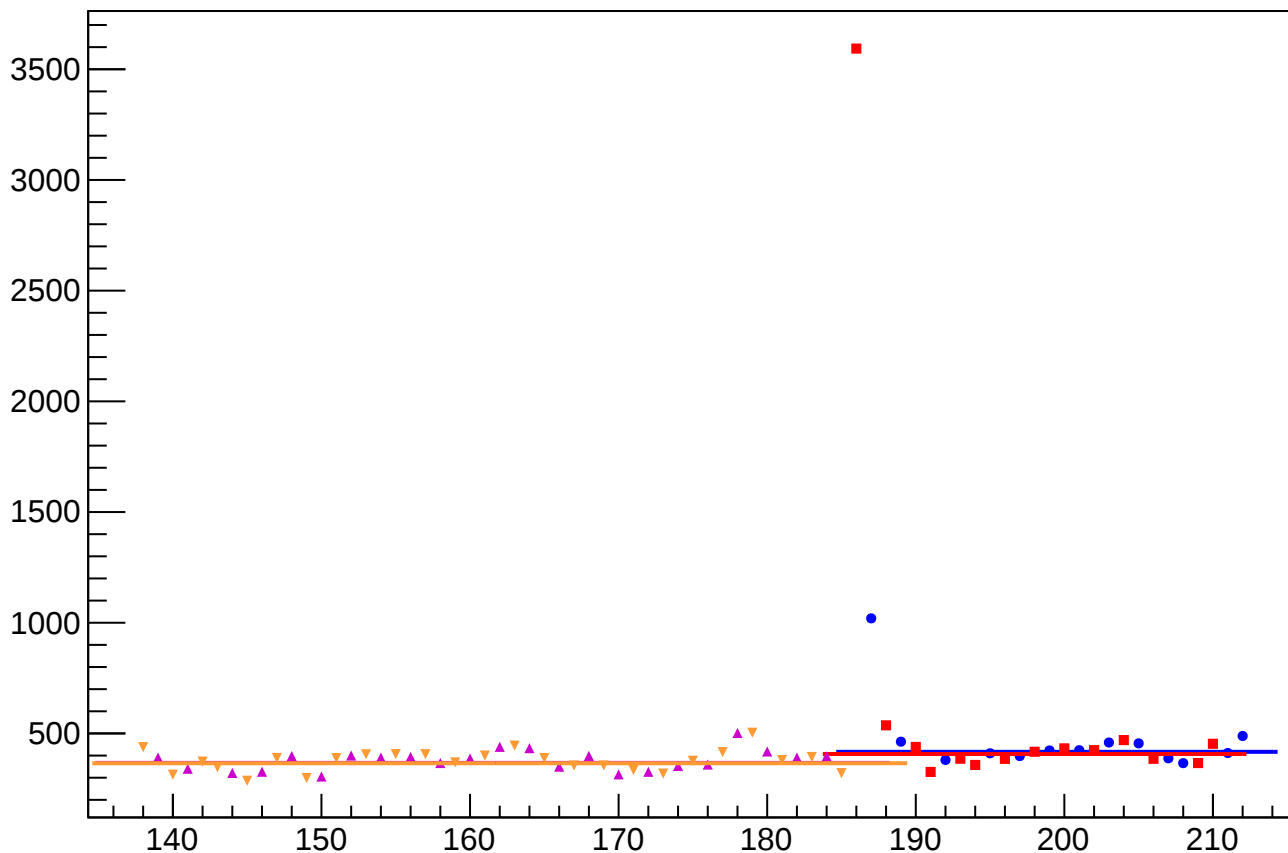
Right: -58.220 ± 97.074 χ^2/NDF : 36.0/26

In: 29.248 ± 74.677 χ^2/NDF : 41.6/35

Out: 111.918 ± 72.736 χ^2/NDF : 66.8/38

All: 71.672 ± 52.105 χ^2/NDF : 109.1/74

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 416.917 $\pm$ 0.098 χ^2 /NDF: 222927.5/12

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 407.177 $\pm$ 0.096 χ^2 /NDF: 825624.8/13

Left In: 366.925 $\pm$ 0.063 χ^2 /NDF: 478082.1/22

Left: 366.117 $\pm$ 0.044 χ^2 /NDF: 1096858.5/47

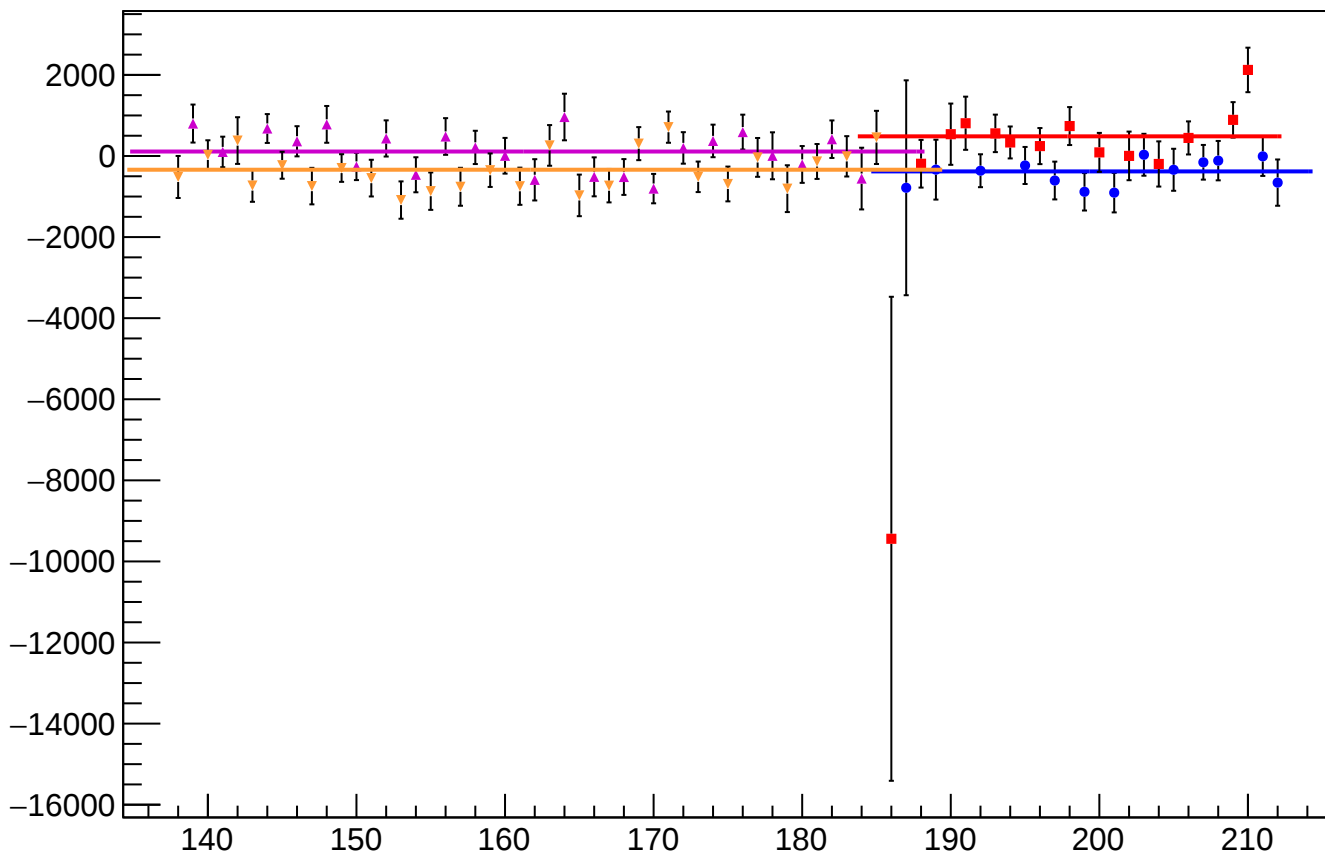
Right: 411.958 $\pm$ 0.069 χ^2 /NDF: 1053584.8/26

In: 381.447 $\pm$ 0.053 χ^2 /NDF: 885743.7/35

Out: 377.310 $\pm$ 0.051 χ^2 /NDF: 1579056.9/38

All: 379.324 $\pm$ 0.037 χ^2 /NDF: 2467949.7/74

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -380.072 ± 140.190 χ^2/NDF : 4.8/12

Left Out: -338.528 ± 87.450 χ^2/NDF : 28.2/24

Right Out: 484.857 ± 137.871 χ^2/NDF : 17.7/13

Left In: 110.341 ± 90.084 χ^2/NDF : 29.2/22

Left: -120.751 ± 62.747 χ^2/NDF : 70.2/47

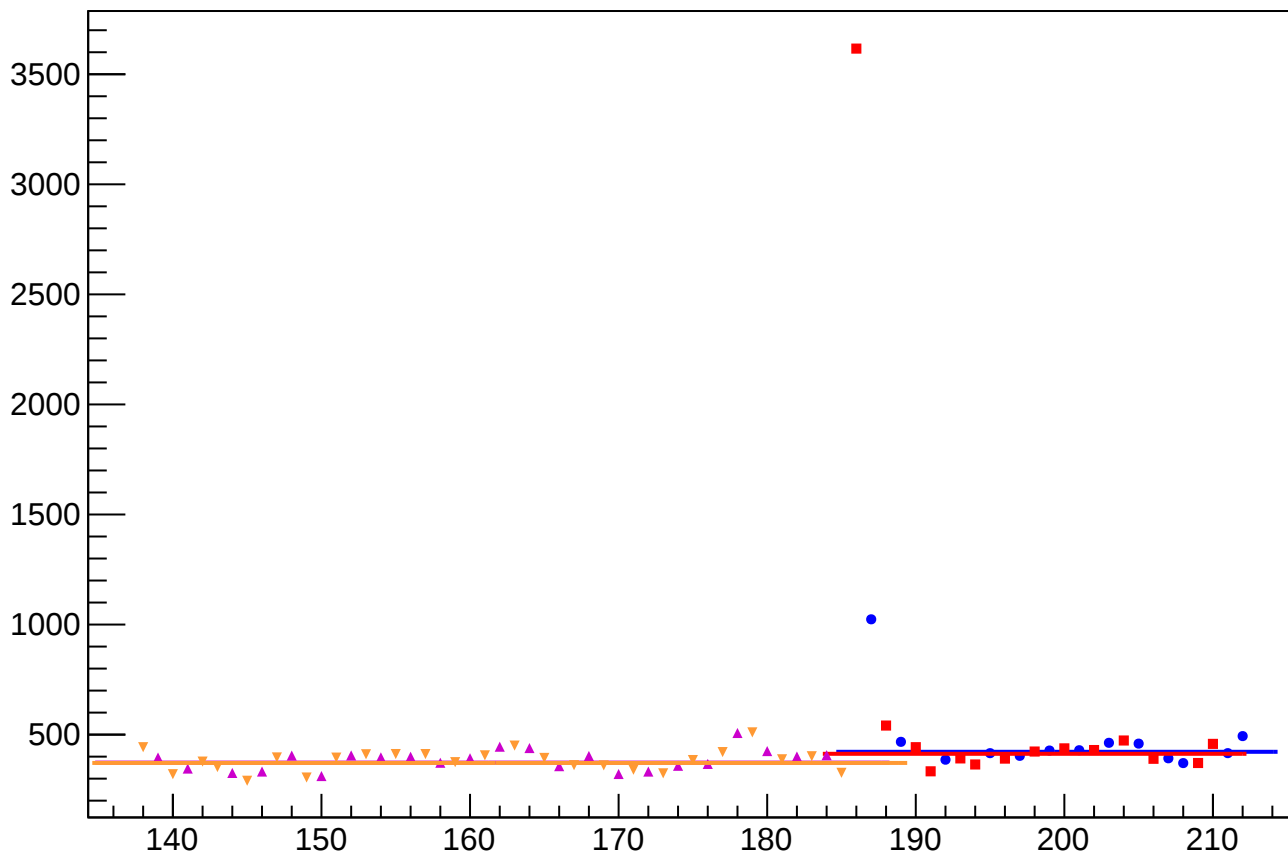
Right: 59.604 ± 98.299 χ^2/NDF : 41.8/26

In: -32.979 ± 75.786 χ^2/NDF : 42.6/35

Out: -102.301 ± 73.848 χ^2/NDF : 71.3/38

All: -68.538 ± 52.890 χ^2/NDF : 114.4/74

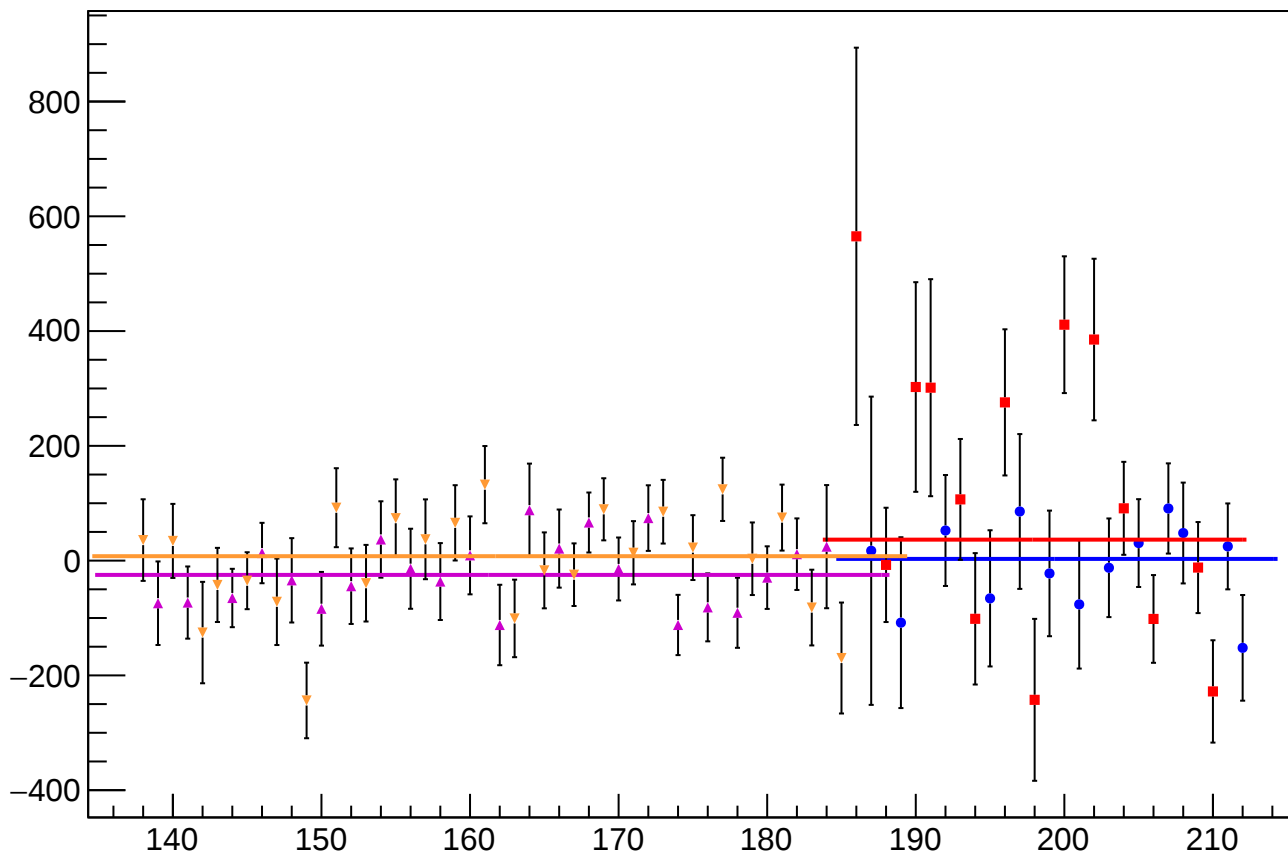
asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 421.953+/-0.099 χ^2/NDF : 216625.1/12
 Left Out: 371.356+/-0.062 χ^2/NDF : 604070.6/24
 Right Out: 412.849+/-0.097 χ^2/NDF : 812581.2/13
 Left In: 372.938+/-0.064 χ^2/NDF : 467340.9/22

Left: 372.123+/-0.044 χ^2/NDF : 1071729.1/47
 Right: 417.325+/-0.070 χ^2/NDF : 1033493.5/26
 In: 387.262+/-0.054 χ^2/NDF : 857005.4/35
 Out: 383.260+/-0.052 χ^2/NDF : 1545831.8/38
 All: 385.209+/-0.037 χ^2/NDF : 2405697.8/74

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 2.996 ± 27.222 $\chi^2/\text{NDF}: 6.7/12$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 36.558 ± 29.167 $\chi^2/\text{NDF}: 45.1/13$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

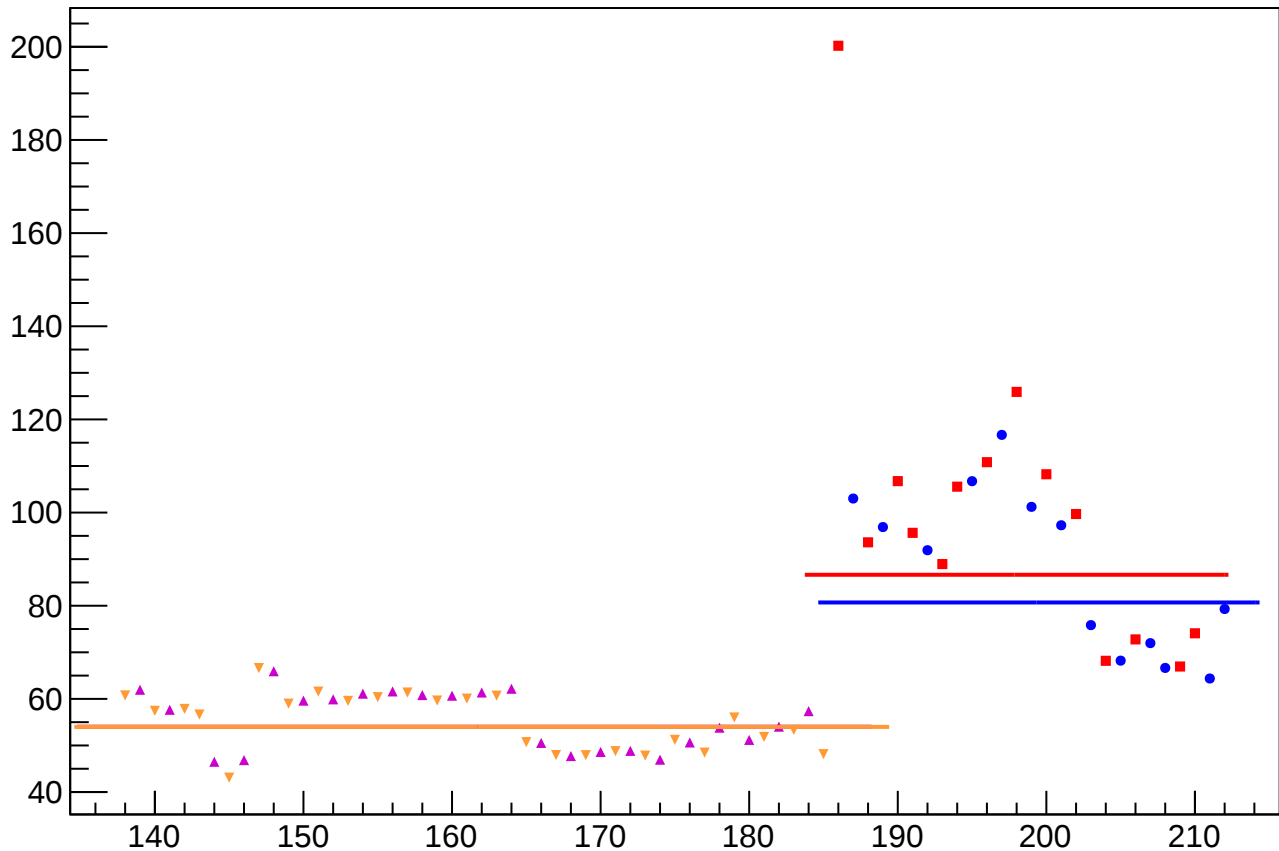
Right: 18.621 ± 19.901 $\chi^2/\text{NDF}: 52.5/26$

In: -19.691 ± 11.752 $\chi^2/\text{NDF}: 27.3/35$

Out: 12.292 ± 11.610 $\chi^2/\text{NDF}: 91.3/38$

All: -3.505 ± 8.259 $\chi^2/\text{NDF}: 122.4/74$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 80.701 $\pm$ 0.019 χ^2 /NDF: 648403.9/12

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 86.648 $\pm$ 0.021 χ^2 /NDF: 975420.9/13

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

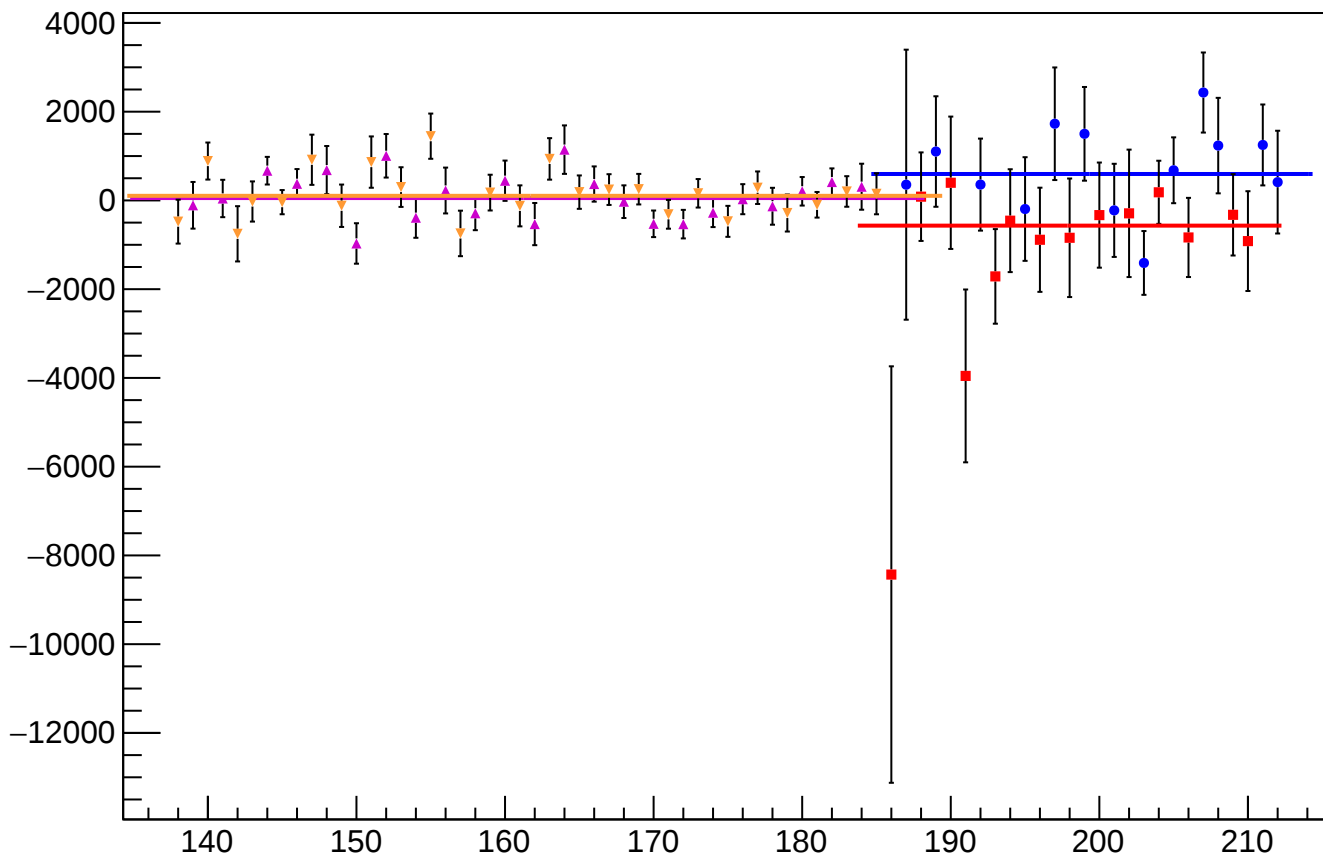
Right: 83.470 $\pm$ 0.014 χ^2 /NDF: 1668271.5/26

In: 58.999 $\pm$ 0.008 χ^2 /NDF: 2654502.5/35

Out: 59.159 $\pm$ 0.008 χ^2 /NDF: 3545386.9/38

All: 59.080 $\pm$ 0.006 χ^2 /NDF: 6200077.6/74

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 595.886+/-281.308 χ^2/NDF : 15.6/12

Left Out: 103.768+/-79.344 χ^2/NDF :31.0/24

Right Out: -567.981+/-300.350 χ^2/NDF : 9.4/13

Left In: 53.493+/-81.201 χ^2/NDF :34.1/22

Left: 79.212+/-56.750 χ^2/NDF : 65.3/47

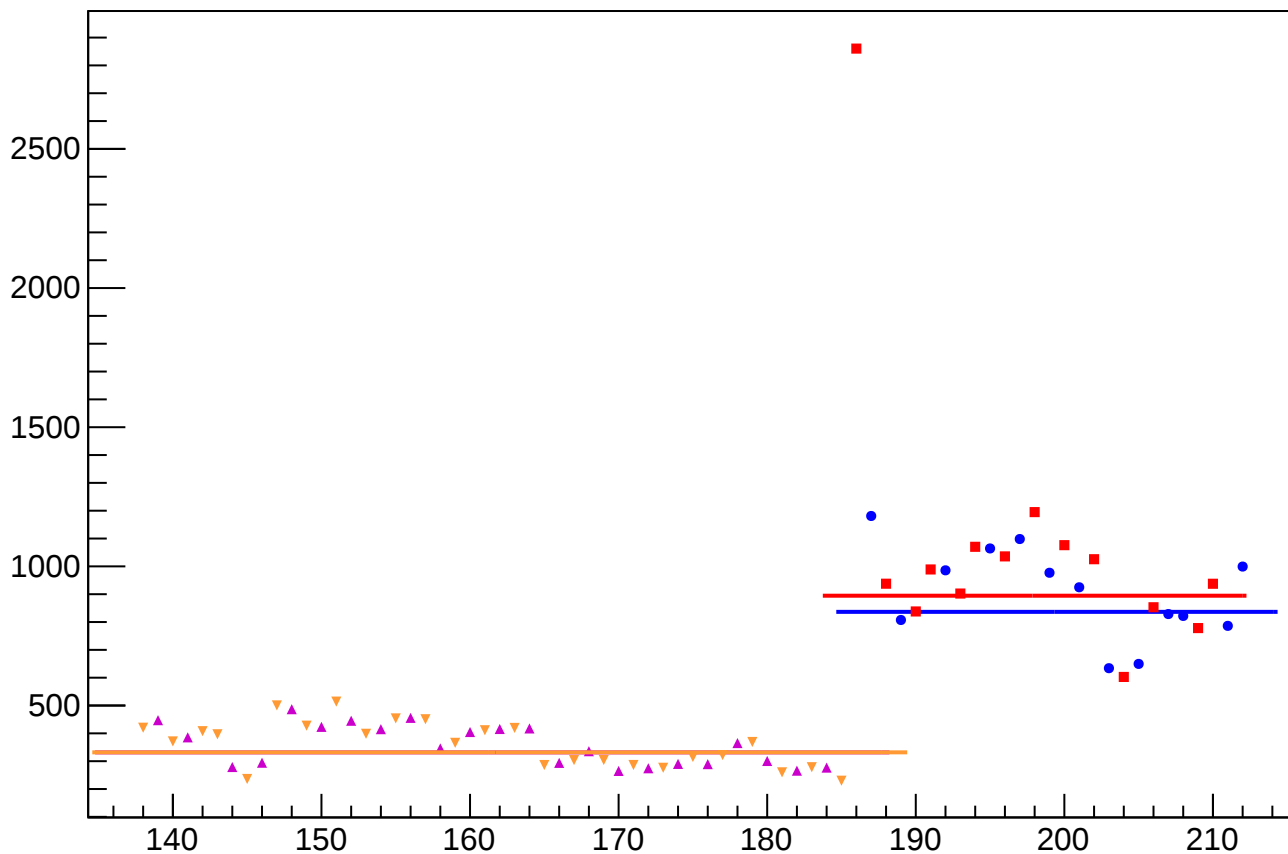
Right: 52.015+/-205.317 χ^2/NDF : 33.1/26

In: 95.210+/-78.016 χ^2/NDF :53.2/35

Out: 59.947+/-76.712 χ^2/NDF :45.0/38

All: 77.281+/-54.699 χ^2/NDF : 98.3/74

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 836.556 $\pm$ 0.199 χ^2 /NDF: 610740.6/12

Left Out: 331.770 $\pm$ 0.056 χ^2 /NDF: 1711721.9/24

Right Out: 894.584 $\pm$ 0.212 χ^2 /NDF: 978425.2/13

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

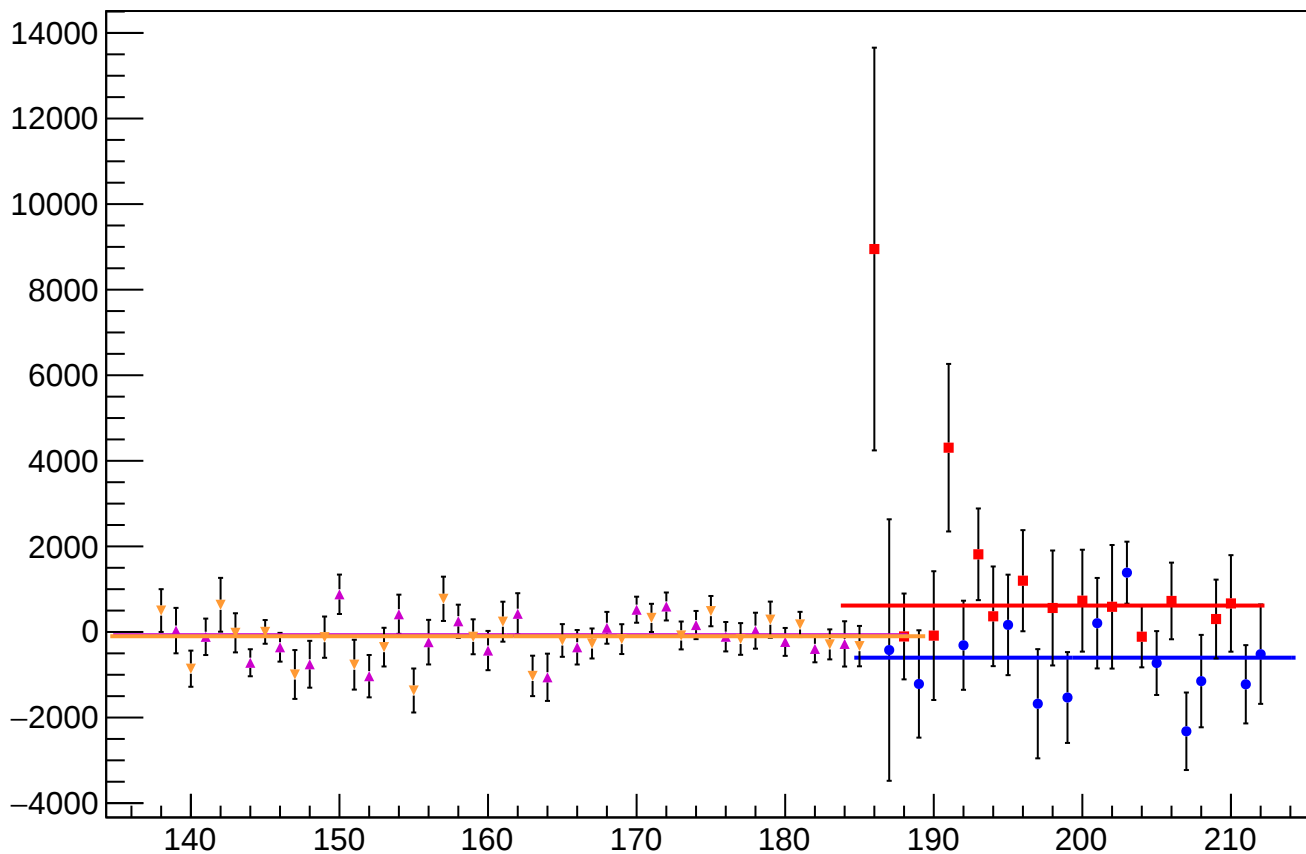
Right: 863.672 $\pm$ 0.145 χ^2 /NDF: 1628932.9/26

In: 370.499 $\pm$ 0.055 χ^2 /NDF: 7861011.5/35

Out: 368.485 $\pm$ 0.054 χ^2 /NDF: 9254701.4/38

All: 369.475 $\pm$ 0.039 χ^2 /NDF: 17116390.3/74

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -600.717+/-282.847 χ^2/NDF : 14.7/12

Left Out: -99.785+/-80.428 χ^2/NDF : 30.7/24

Right Out: 617.579+/-301.960 χ^2/NDF : 10.1/13

Left In: -75.579+/-82.319 χ^2/NDF : 32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

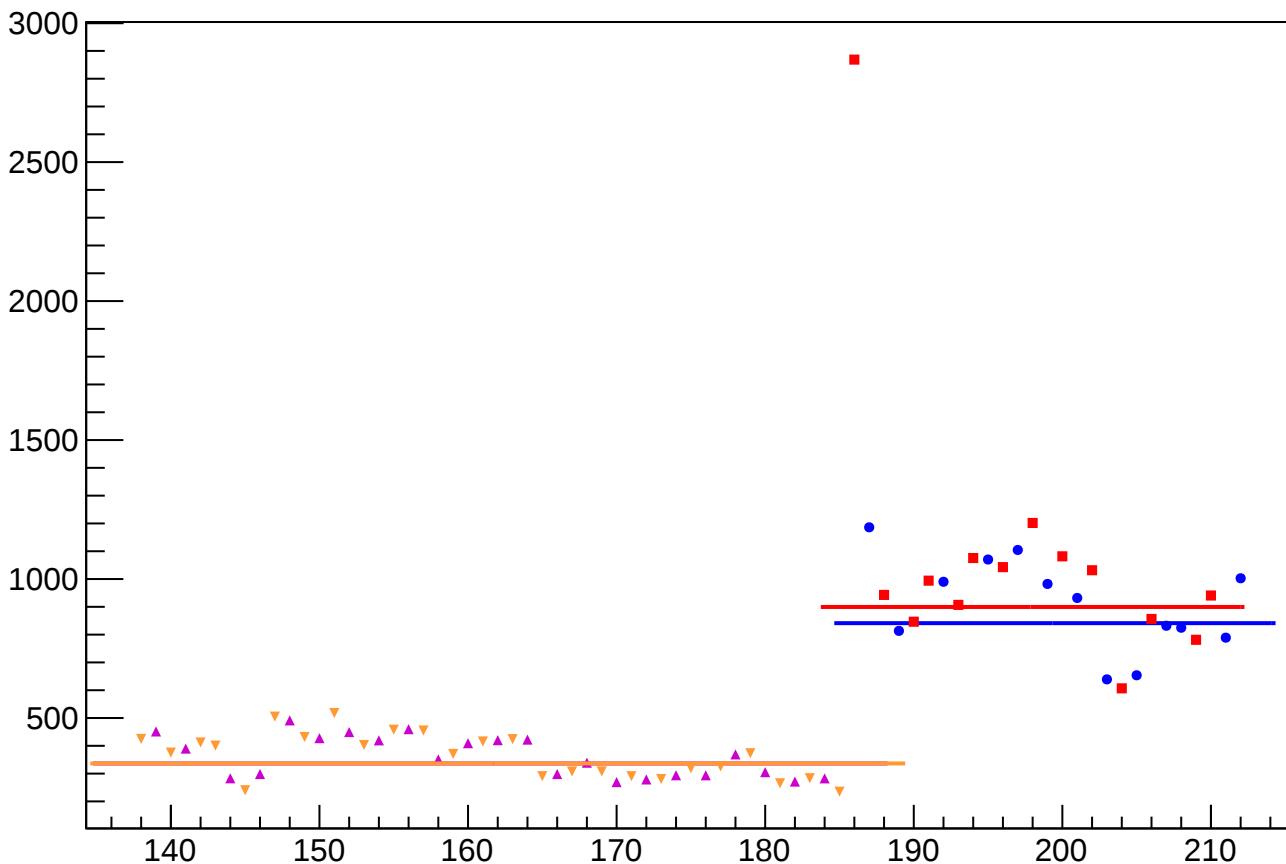
Right: -31.343+/-206.429 χ^2/NDF : 33.5/26

In: -116.586+/-79.039 χ^2/NDF : 50.0/35

Out: -52.264+/-77.718 χ^2/NDF : 46.1/38

All: -83.883+/-55.416 χ^2/NDF : 96.4/74

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 841.268 ± 0.200 χ^2/NDF : 606531.7/12

Left Out: 336.557 ± 0.057 χ^2/NDF : 1665919.4/24

Right Out: 899.493 ± 0.214 χ^2/NDF : 975640.1/13

Left In: 336.439 ± 0.058 χ^2/NDF : 1269066.3/22

Left: 336.500 ± 0.041 χ^2/NDF : 2934987.9/47

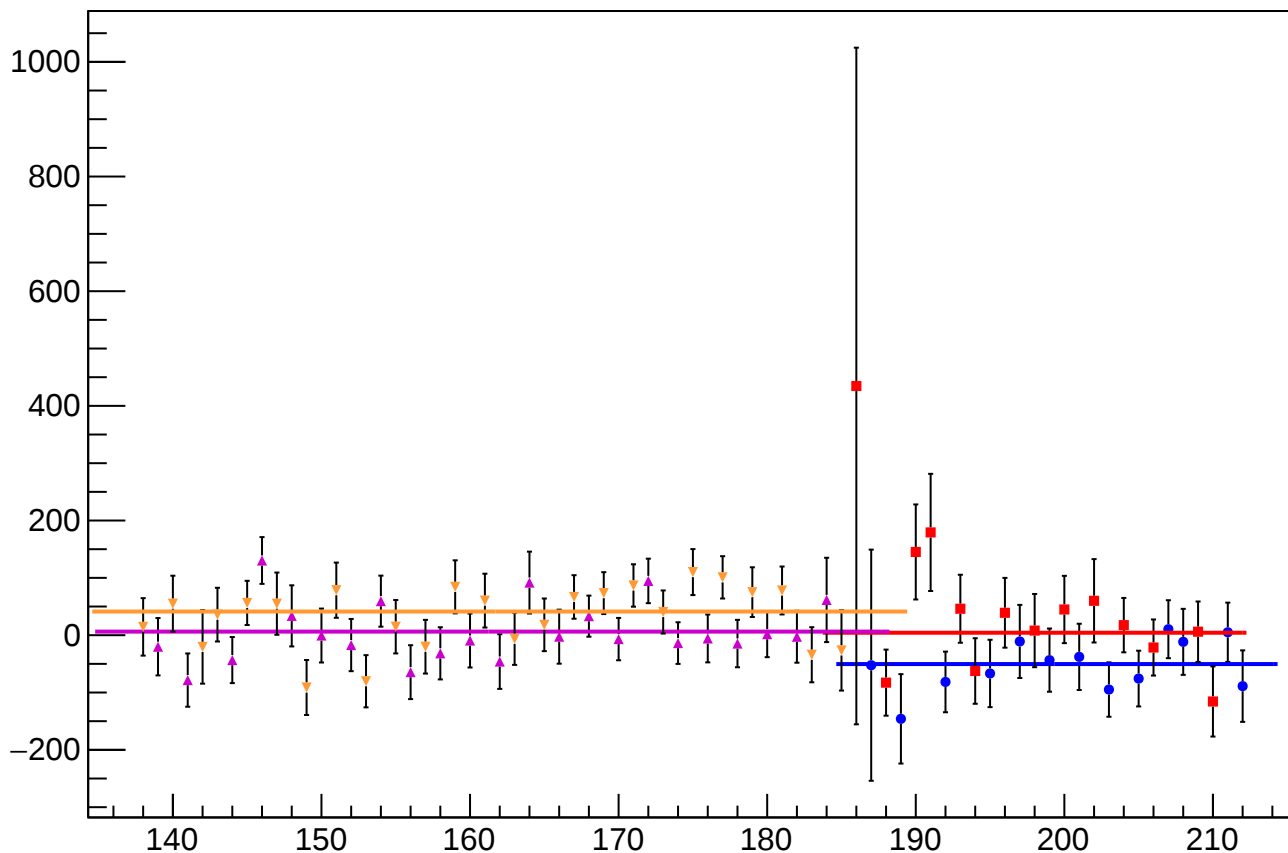
Right: 868.480 ± 0.146 χ^2/NDF : 1621780.4/26

In: 375.860 ± 0.056 χ^2/NDF : 7749204.8/35

Out: 373.849 ± 0.055 χ^2/NDF : 9132127.4/38

All: 374.838 ± 0.039 χ^2/NDF : 16881990.9/74

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -50.364±16.006 χ^2/NDF : 7.0/12

Left Out: 41.283±8.889 χ^2/NDF :34.4/24

Right Out: 4.299±16.620 χ^2/NDF : 16.1/13

Left In: 6.254±9.175 χ^2/NDF :30.3/22

Left: 24.322±6.384 χ^2/NDF : 72.2/47

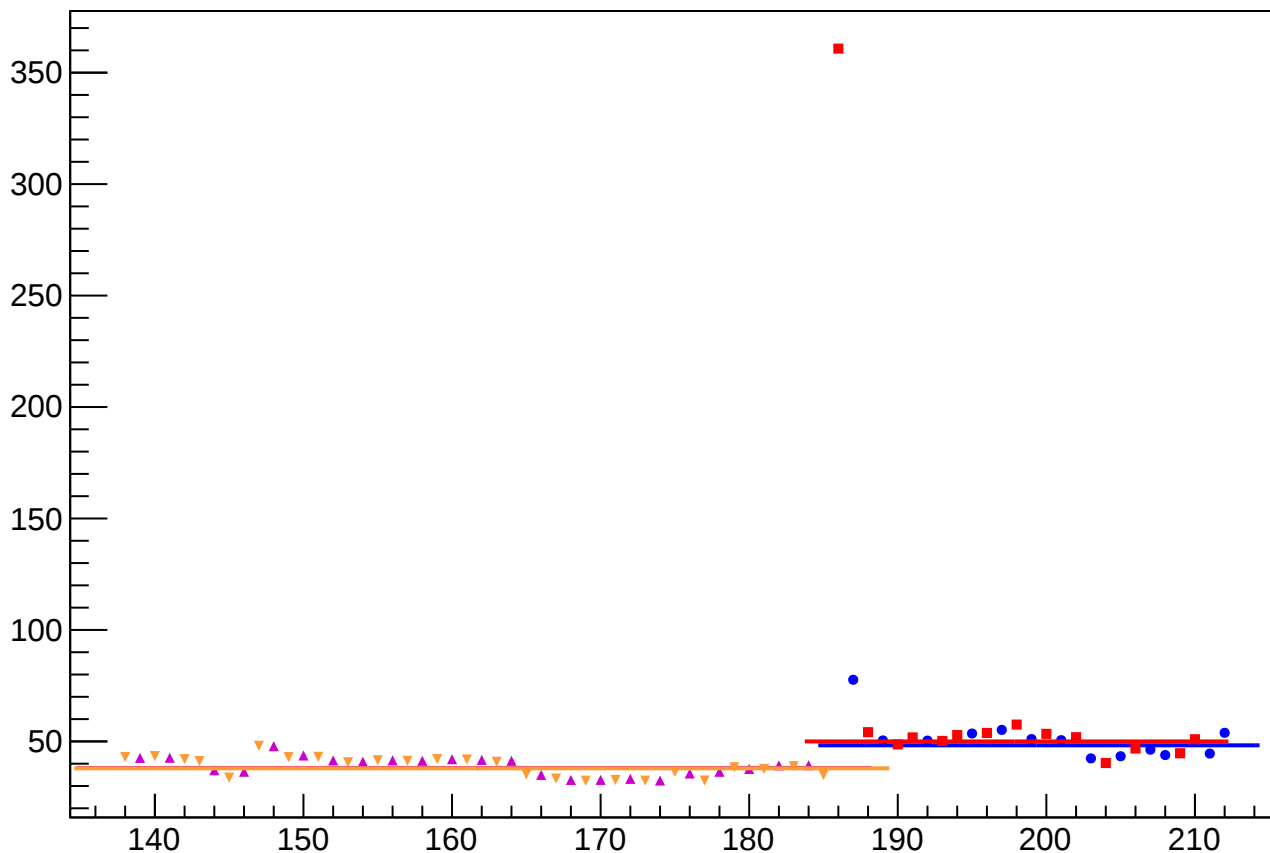
Right: -24.060±11.529 χ^2/NDF : 28.7/26

In: -7.748±7.960 χ^2/NDF :46.6/35

Out: 33.056±7.838 χ^2/NDF :54.3/38

All: 12.968±5.585 χ^2/NDF : 114.3/74

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 48.242 $\pm$ 0.011 χ^2 /NDF: 187353.2/12

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 49.987 $\pm$ 0.012 χ^2 /NDF: 727816.9/13

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

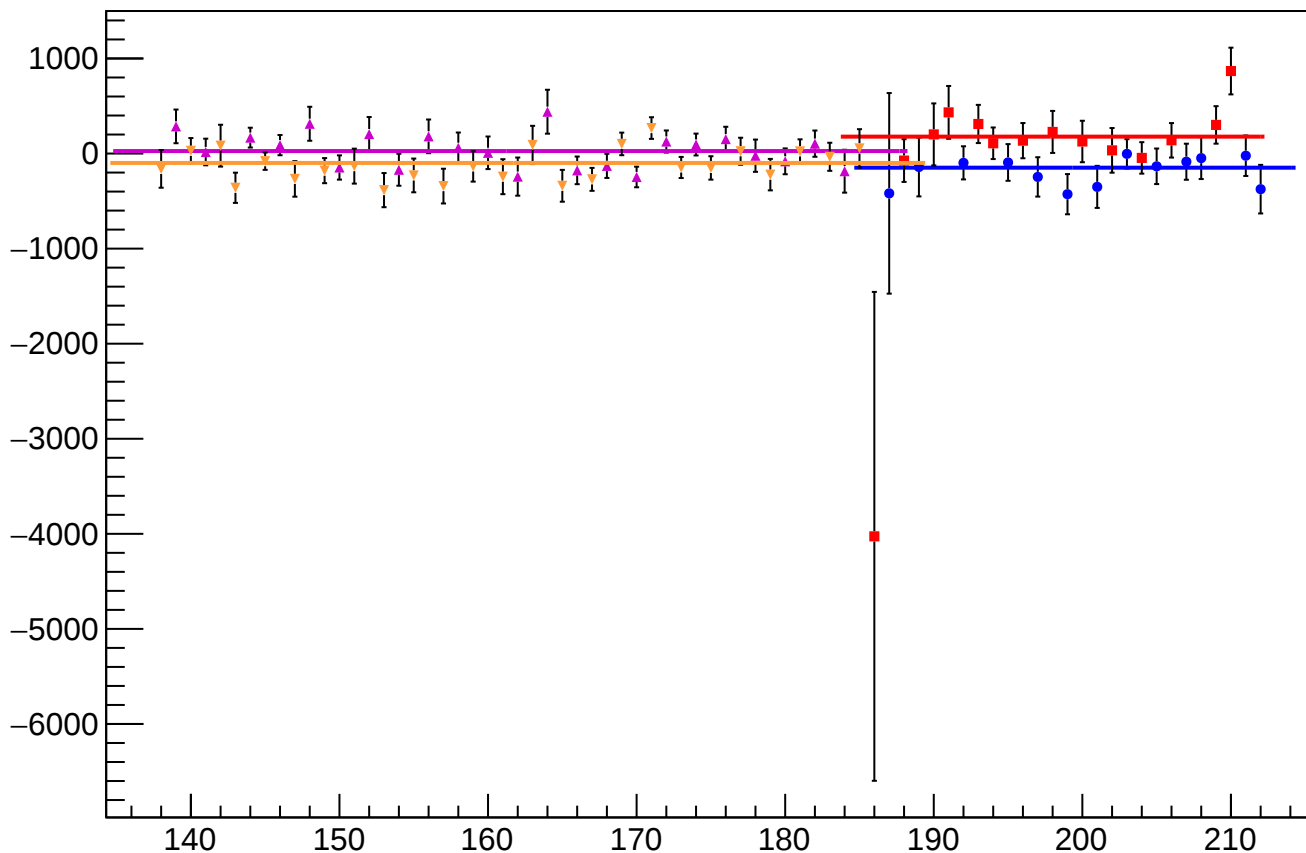
Right: 49.081 $\pm$ 0.008 χ^2 /NDF: 926609.1/26

In: 40.598 $\pm$ 0.006 χ^2 /NDF: 1189554.0/35

Out: 40.608 $\pm$ 0.006 χ^2 /NDF: 2033989.0/38

All: 40.603 $\pm$ 0.004 χ^2 /NDF: 3223544.5/74

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -148.636 ± 58.363 χ^2/NDF : 5.4/12

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 177.981 ± 57.612 χ^2/NDF : 16.1/13

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

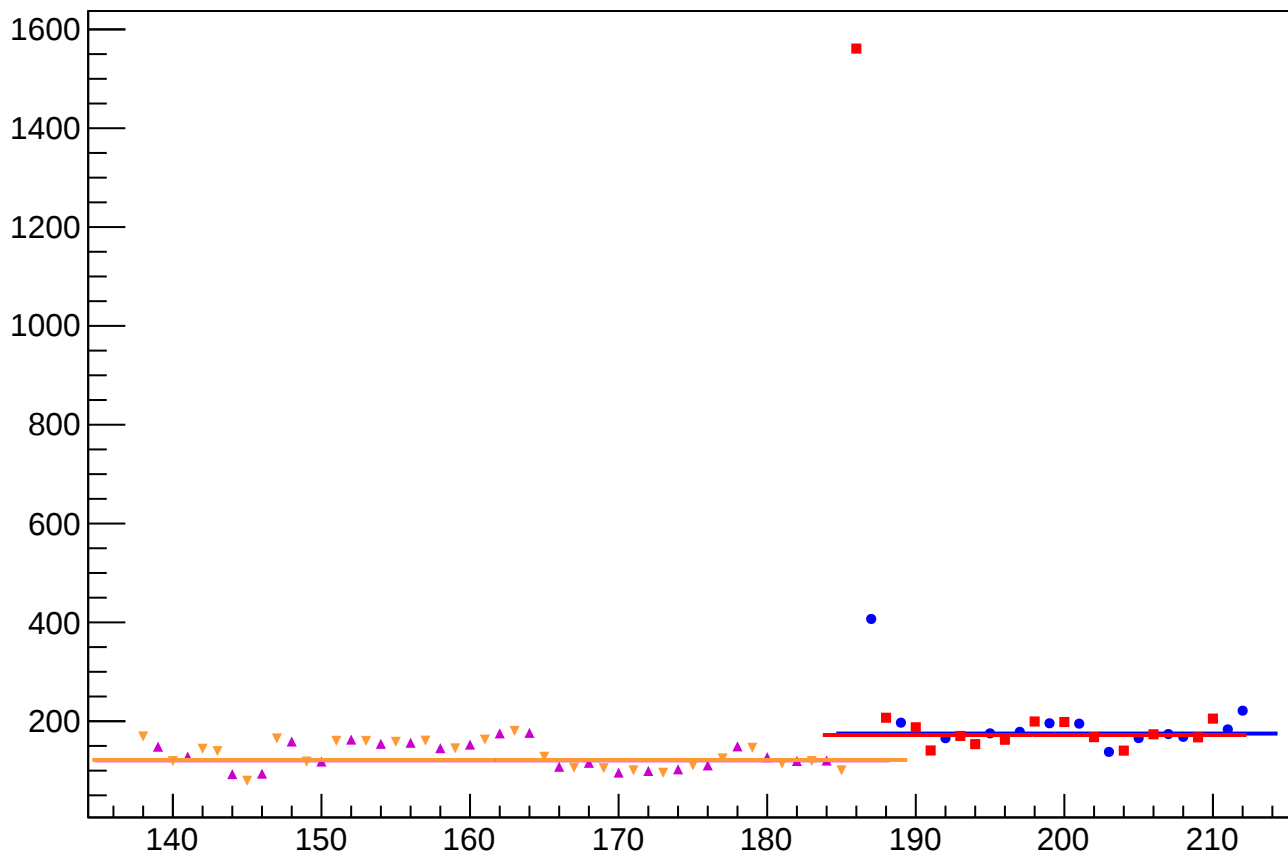
Right: 16.786 ± 41.001 χ^2/NDF : 37.3/26

In: -9.698 ± 26.452 χ^2/NDF : 43.2/35

Out: -42.507 ± 25.971 χ^2/NDF : 67.2/38

All: -26.404 ± 18.532 χ^2/NDF : 111.2/74

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 175.044+/-0.041 χ^2/NDF : 340332.2/12

Left Out: 121.592+/-0.021 χ^2/NDF : 1711423.9/24

Right Out: 172.110+/-0.041 χ^2/NDF : 863240.8/13

Left In: 120.927+/-0.021 χ^2/NDF : 1382861.4/22

Left: 121.266+/-0.015 χ^2/NDF : 3094797.5/47

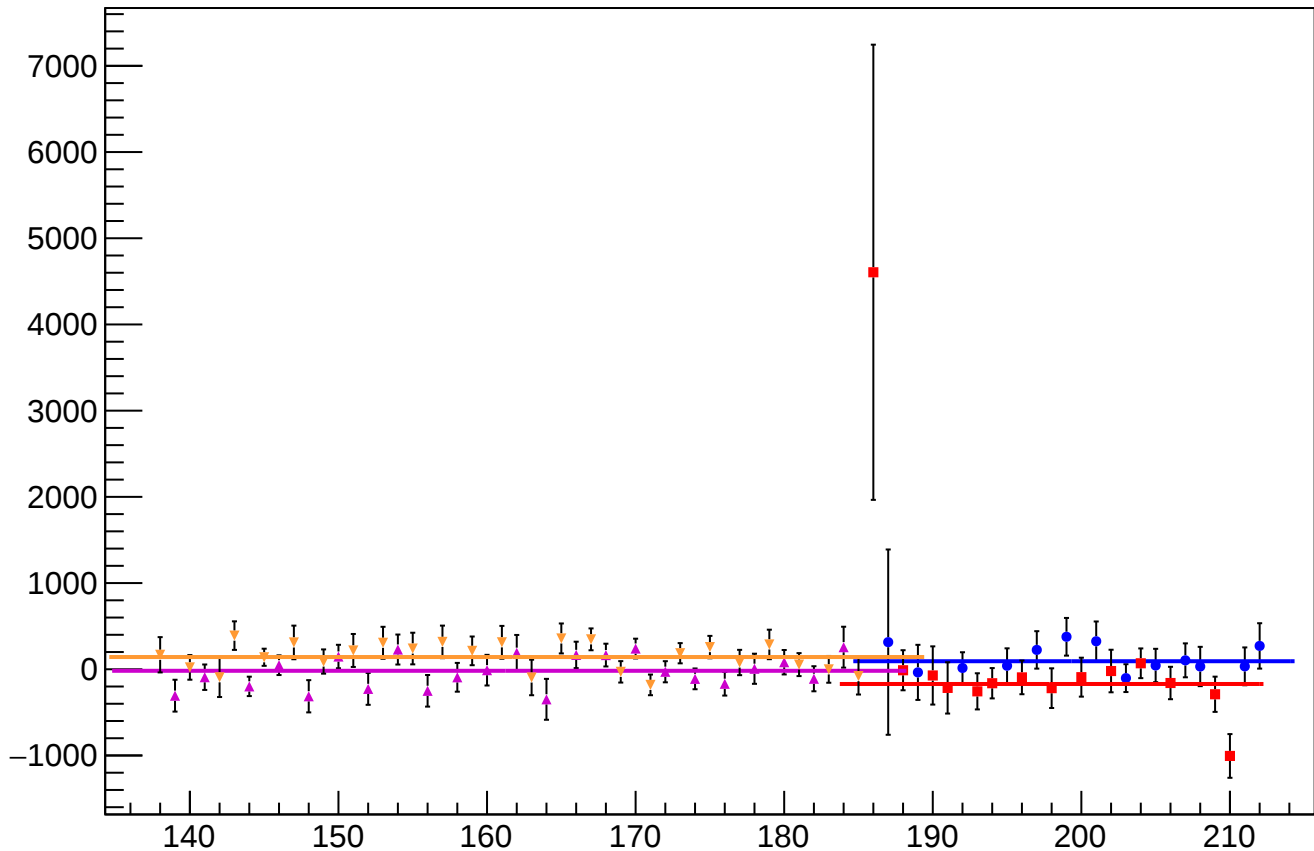
Right: 173.558+/-0.029 χ^2/NDF : 1206133.4/26

In: 132.044+/-0.019 χ^2/NDF : 3089537.2/35

Out: 131.858+/-0.018 χ^2/NDF : 3799929.1/38

All: 131.949+/-0.013 χ^2/NDF : 6889516.8/74

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 93.344+/-60.667 χ^2/NDF : 5.7/12

Left Out: 142.014+/-30.574 χ^2/NDF : 26.9/24

Right Out: -170.700+/-60.157 χ^2/NDF : 17.8/13

Left In: -17.679+/-31.209 χ^2/NDF : 30.1/22

Left: 63.807+/-21.840 χ^2/NDF : 70.4/47

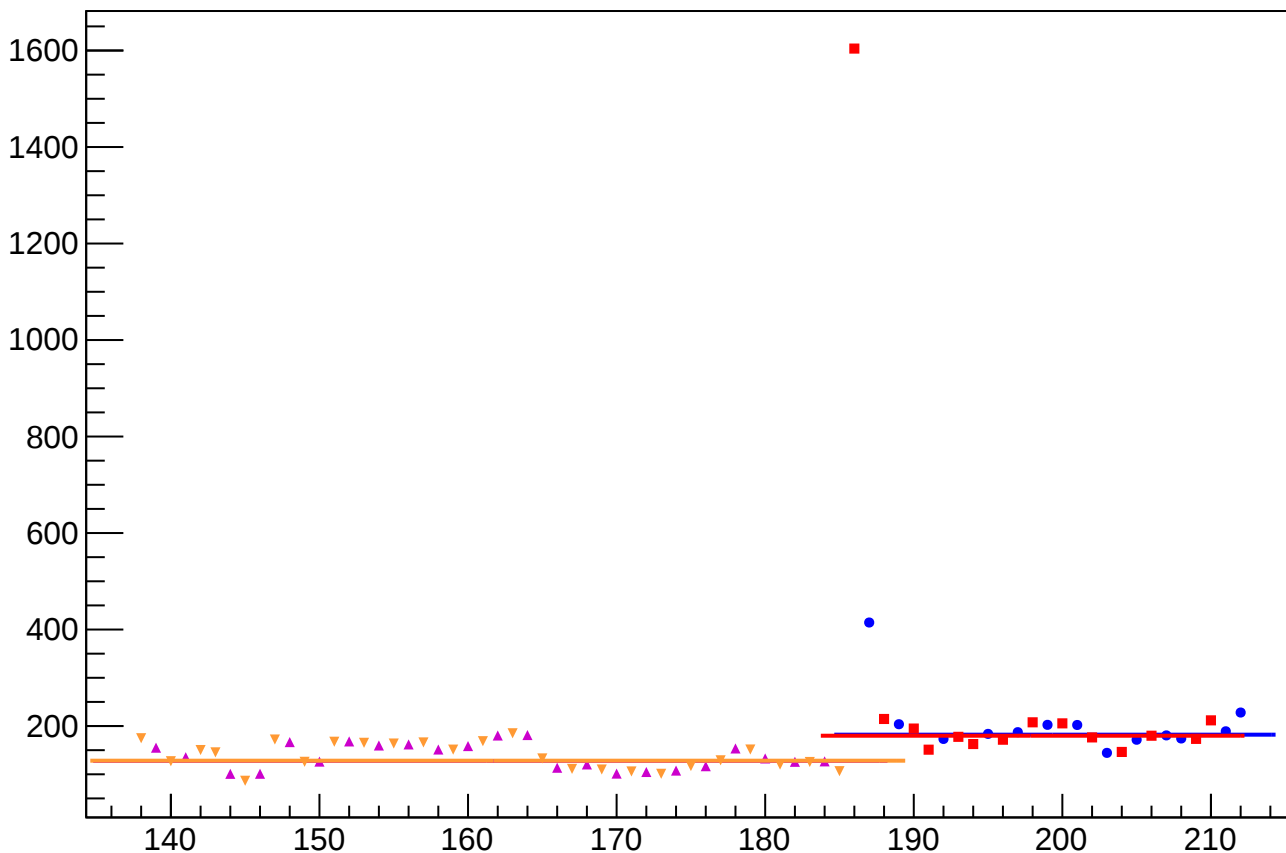
Right: -39.793+/-42.717 χ^2/NDF : 33.1/26

In: 5.553+/-27.752 χ^2/NDF : 38.5/35

Out: 77.819+/-27.256 χ^2/NDF : 66.2/38

All: 42.337+/-19.446 χ^2/NDF : 108.1/74

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 182.102 $\pm$ 0.043 χ^2 /NDF: 321669.5/12

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF: 1532922.0/24

Right Out: 179.940 $\pm$ 0.043 χ^2 /NDF: 837263.3/13

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

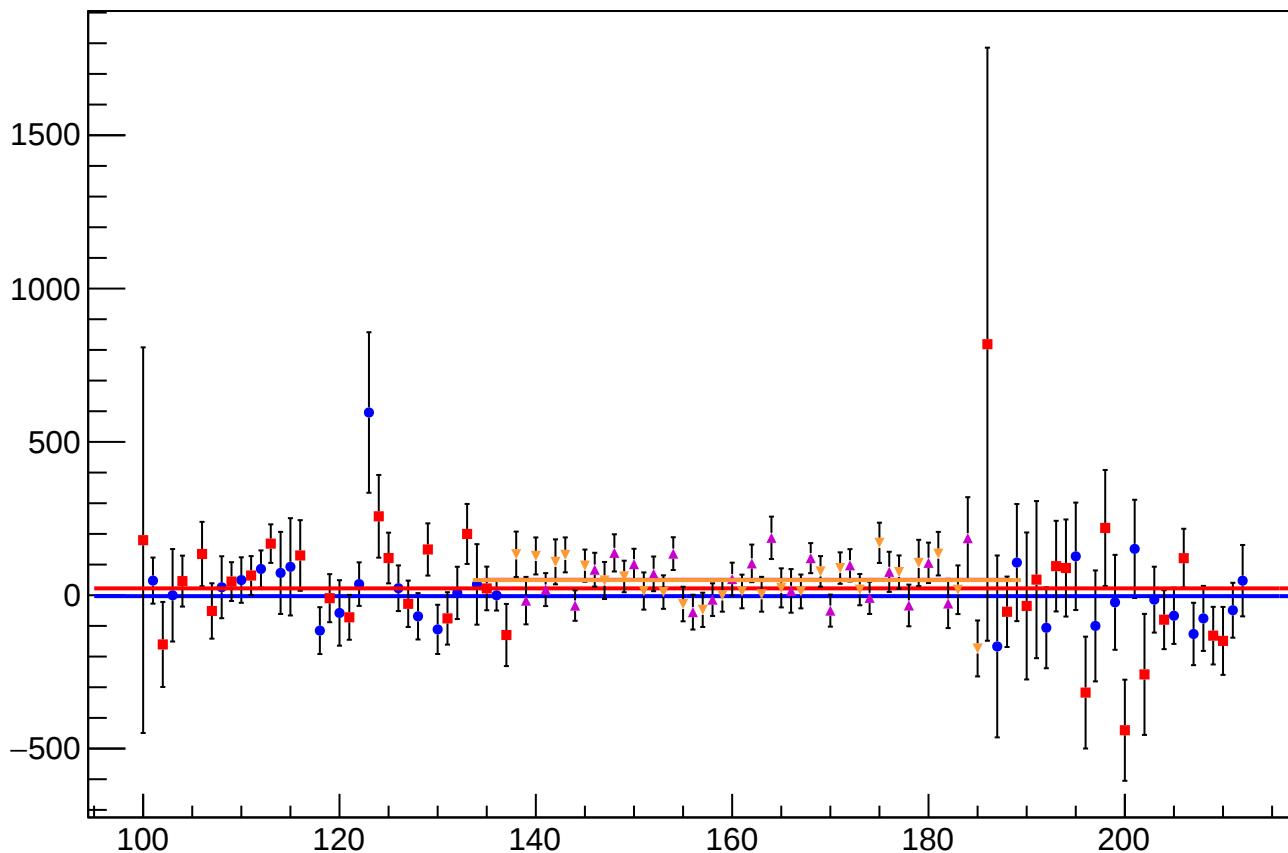
Right: 181.012 $\pm$ 0.030 χ^2 /NDF: 1160213.9/26

In: 138.960 $\pm$ 0.020 χ^2 /NDF: 2836419.7/35

Out: 138.802 $\pm$ 0.019 χ^2 /NDF: 3547094.7/38

All: 138.880 $\pm$ 0.014 χ^2 /NDF: 6383547.7/74

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.960 ± 17.451 $\chi^2/\text{NDF}: 20.6/29$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 22.352 ± 17.229 $\chi^2/\text{NDF}: 49.7/32$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

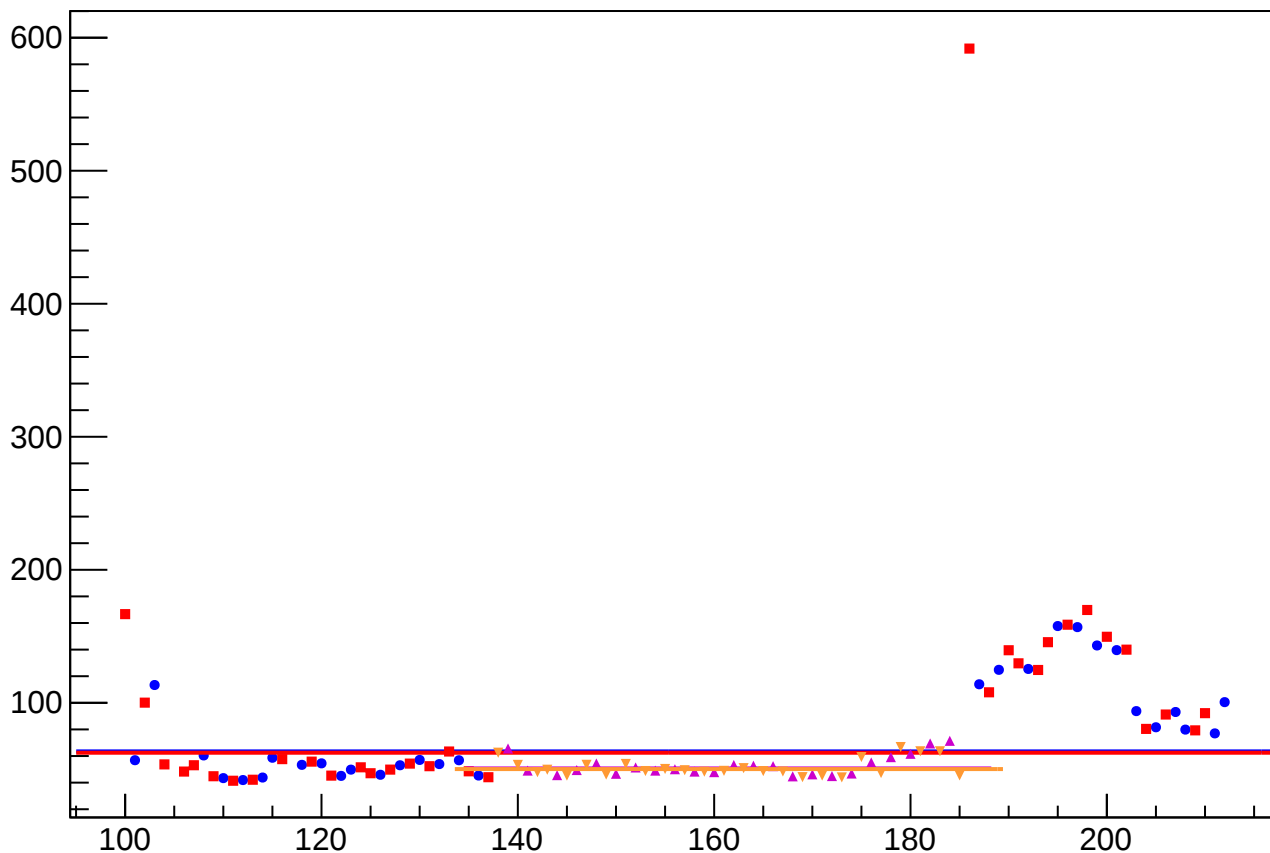
Right: 9.857 ± 12.260 $\chi^2/\text{NDF}: 71.3/62$

In: 32.732 ± 10.028 $\chi^2/\text{NDF}: 59.0/52$

Out: 40.759 ± 9.739 $\chi^2/\text{NDF}: 79.4/57$

All: 36.863 ± 6.986 $\chi^2/\text{NDF}: 138.7/110$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 63.490+/-0.012 χ^2/NDF : 4831100.2/29

Left Out: 50.189+/-0.008 χ^2/NDF : 467679.2/24

Right Out: 62.483+/-0.012 χ^2/NDF : 6015257.0/32

Left In: 50.683+/-0.009 χ^2/NDF : 469292.3/22

Left: 50.427+/-0.006 χ^2/NDF : 938655.0/47

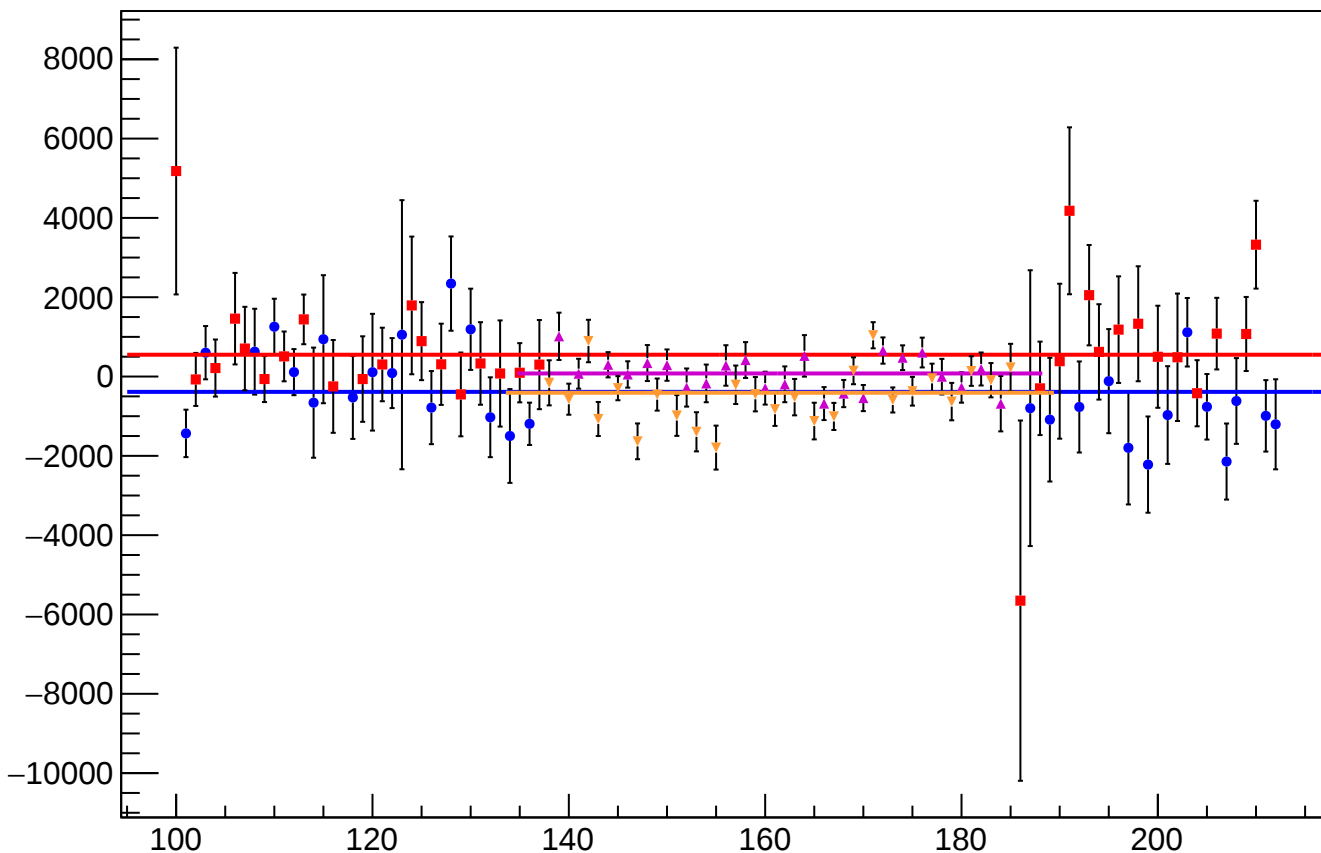
Right: 62.980+/-0.009 χ^2/NDF : 10849724.7/62

In: 54.912+/-0.007 χ^2/NDF : 6021838.3/52

Out: 54.117+/-0.007 χ^2/NDF : 7175897.7/57

All: 54.503+/-0.005 χ^2/NDF : 13204204.1/110

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -386.528 ± 174.216 χ^2/NDF : 36.4/29

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 549.969 ± 173.446 χ^2/NDF : 25.7/32

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

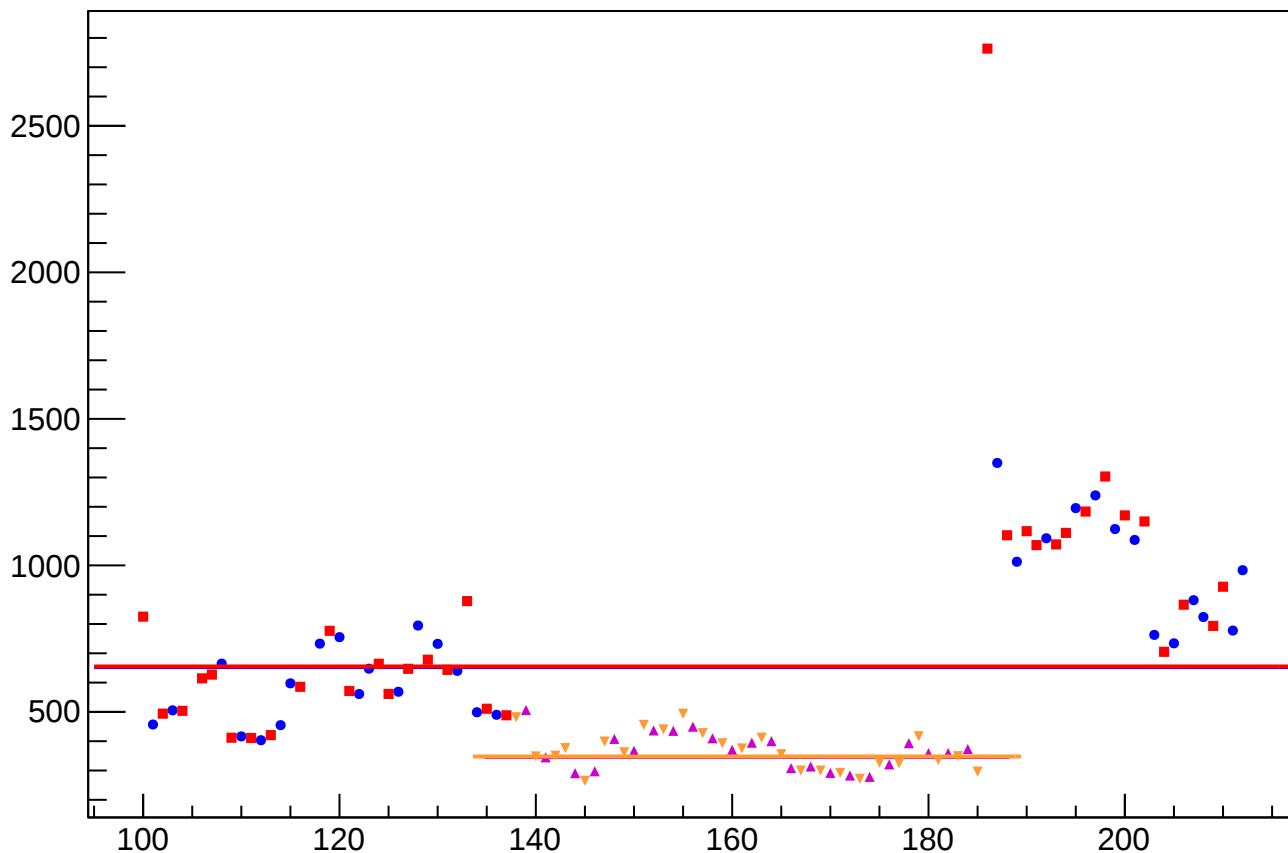
Right: 83.796 ± 122.916 χ^2/NDF : 76.6/62

In: -9.849 ± 75.717 χ^2/NDF : 67.0/52

Out: -232.732 ± 74.390 χ^2/NDF : 112.3/57

All: -123.260 ± 53.065 χ^2/NDF : 183.8/110

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 652.917+/-0.123 χ^2/NDF : 3398609.6/29

Left Out: 347.875+/-0.058 χ^2/NDF : 1044096.7/24

Right Out: 655.040+/-0.123 χ^2/NDF : 4304558.2/32

Left In: 345.954+/-0.059 χ^2/NDF : 900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

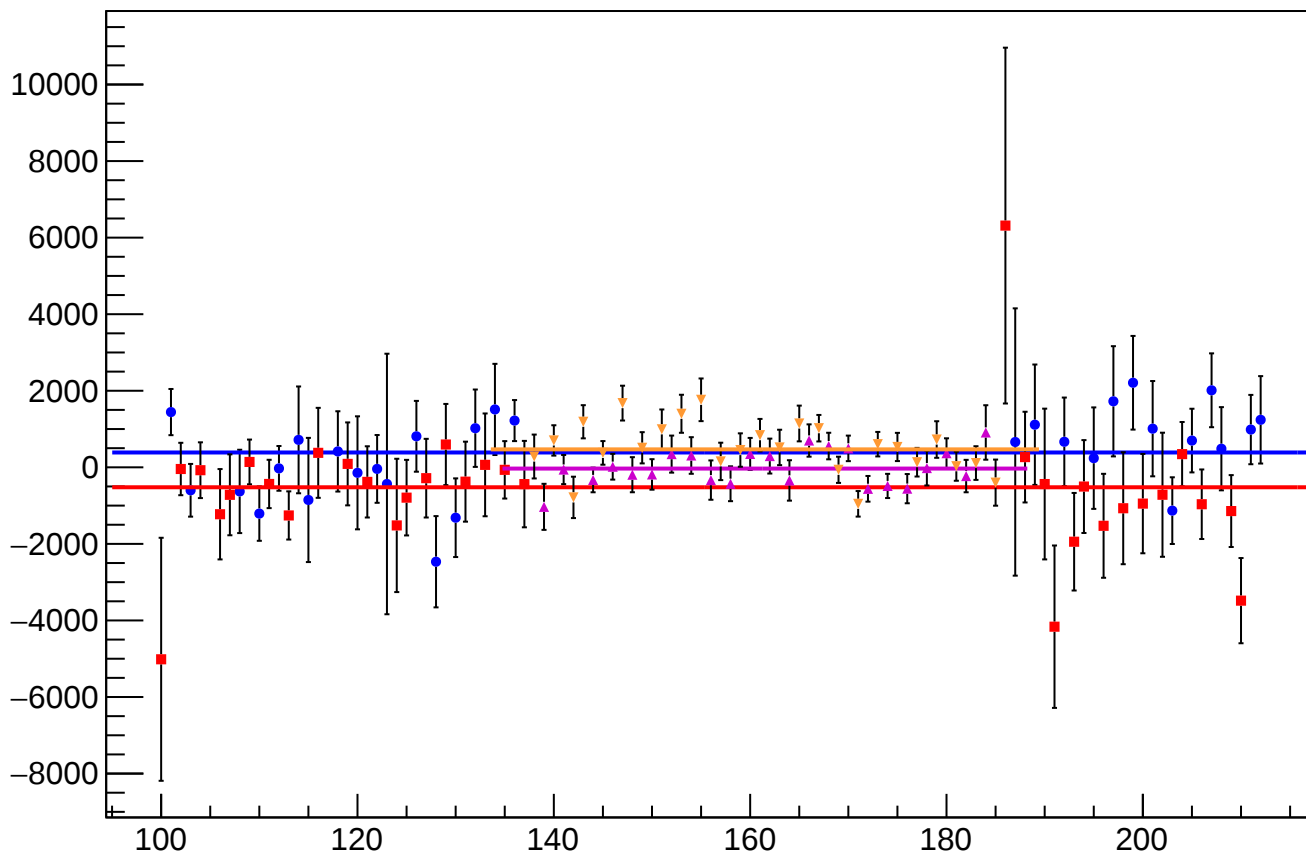
Right: 653.983+/-0.087 χ^2/NDF : 7703317.0/62

In: 403.936+/-0.054 χ^2/NDF : 9335666.9/52

Out: 404.378+/-0.053 χ^2/NDF : 10467409.1/57

All: 404.161+/-0.038 χ^2/NDF : 19803110.7/111

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 387.551 $\pm$ 175.435 χ^2 /NDF: 35.6/29

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -521.128 $\pm$ 174.755 χ^2 /NDF: 25.4/32

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

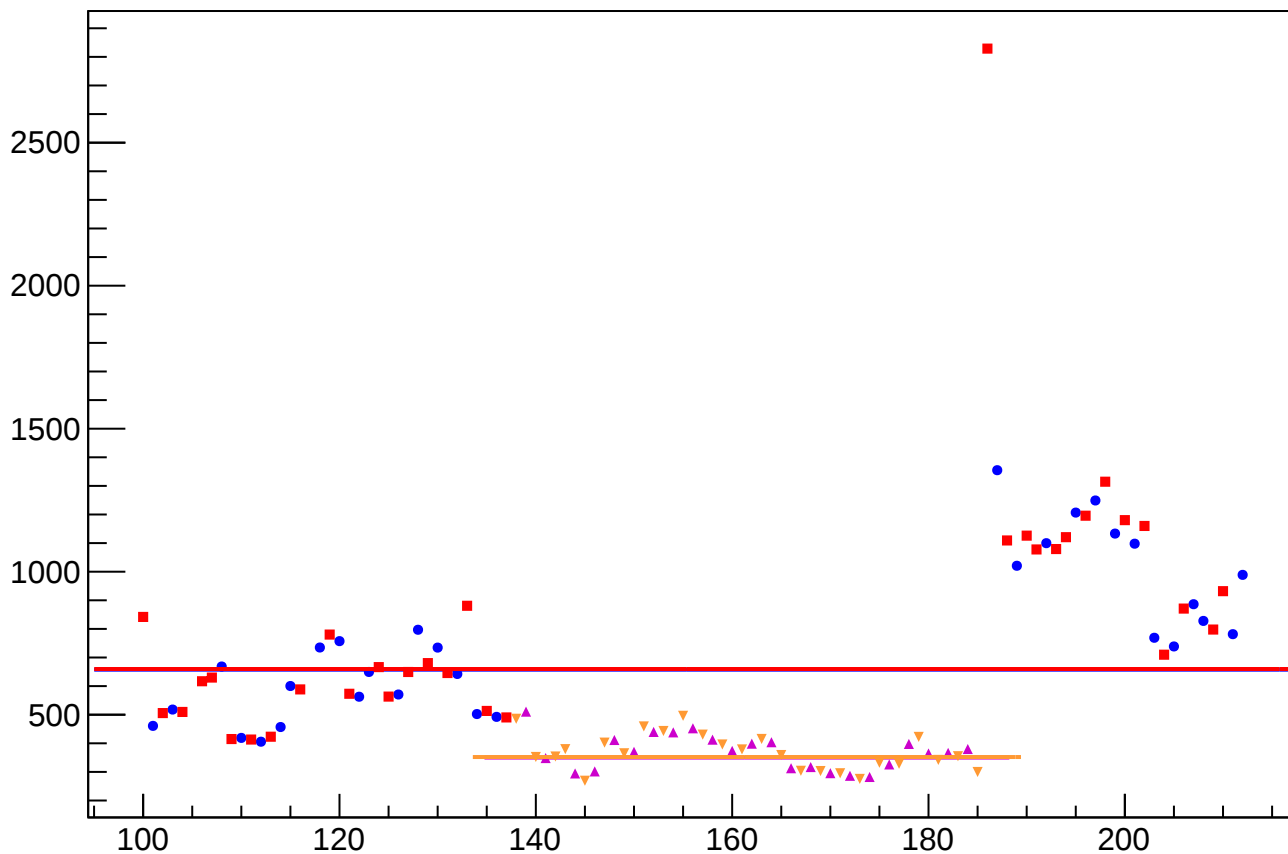
Right: -68.553 $\pm$ 123.810 χ^2 /NDF: 74.5/62

In: 47.213 $\pm$ 76.541 χ^2 /NDF:66.0/52

Out: 285.588 $\pm$ 75.191 χ^2 /NDF:109.1/57

All: 168.521 $\pm$ 53.639 χ^2 /NDF: 180.0/110

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 657.574+/-0.124 χ^2/NDF : 3391664.0/29

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 659.771+/-0.124 χ^2/NDF : 4303821.3/32

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

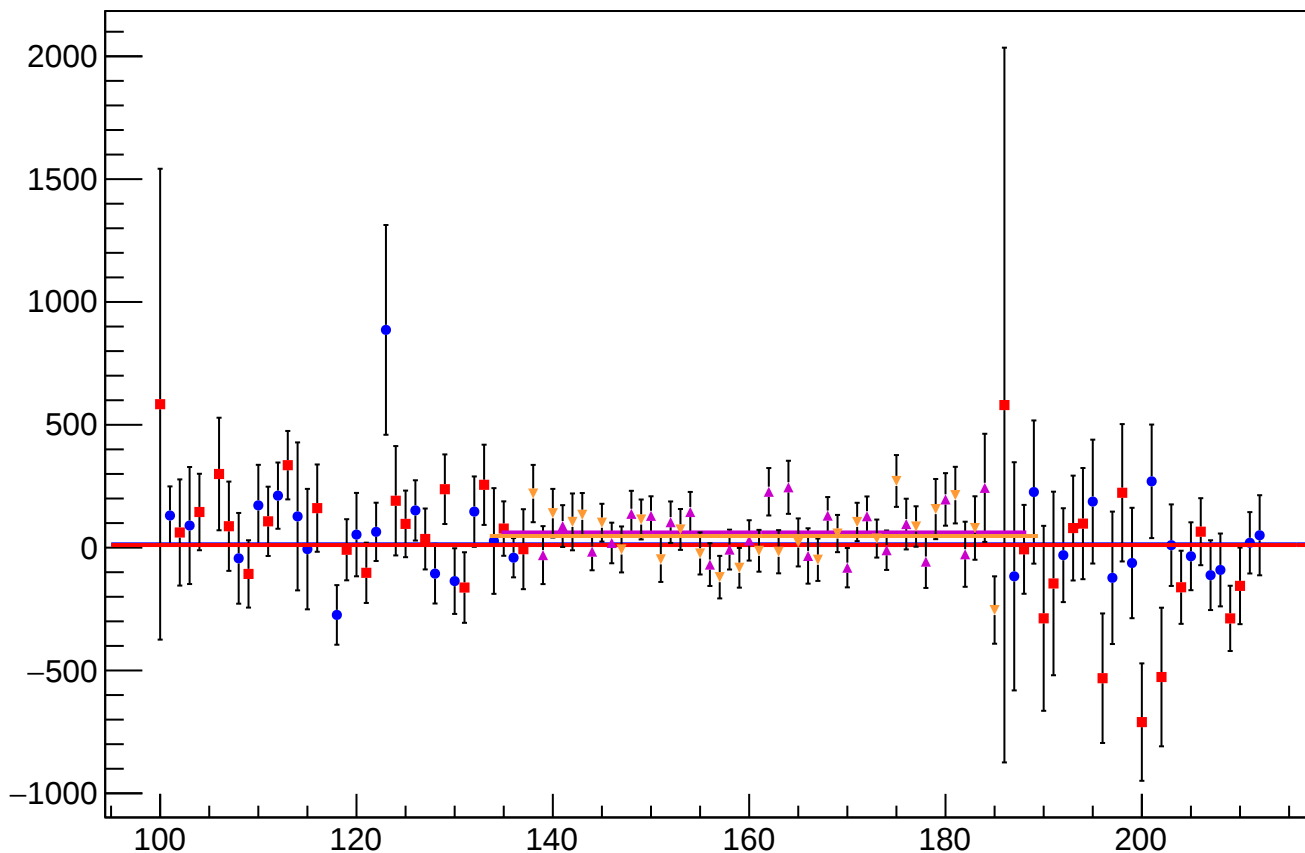
Right: 658.677+/-0.088 χ^2/NDF : 7695642.7/62

In: 408.676+/-0.054 χ^2/NDF : 9242155.6/52

Out: 408.989+/-0.053 χ^2/NDF : 10375453.6/57

All: 408.835+/-0.038 χ^2/NDF : 19617626.1/111

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 13.462 $\pm$ 28.503 χ^2 /NDF: 23.4/29

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 10.621 $\pm$ 29.278 χ^2 /NDF: 45.4/32

Left In: 61.830 $\pm$ 18.958 χ^2 /NDF:24.0/22

Left: 54.355 $\pm$ 13.149 χ^2 /NDF: 53.7/47

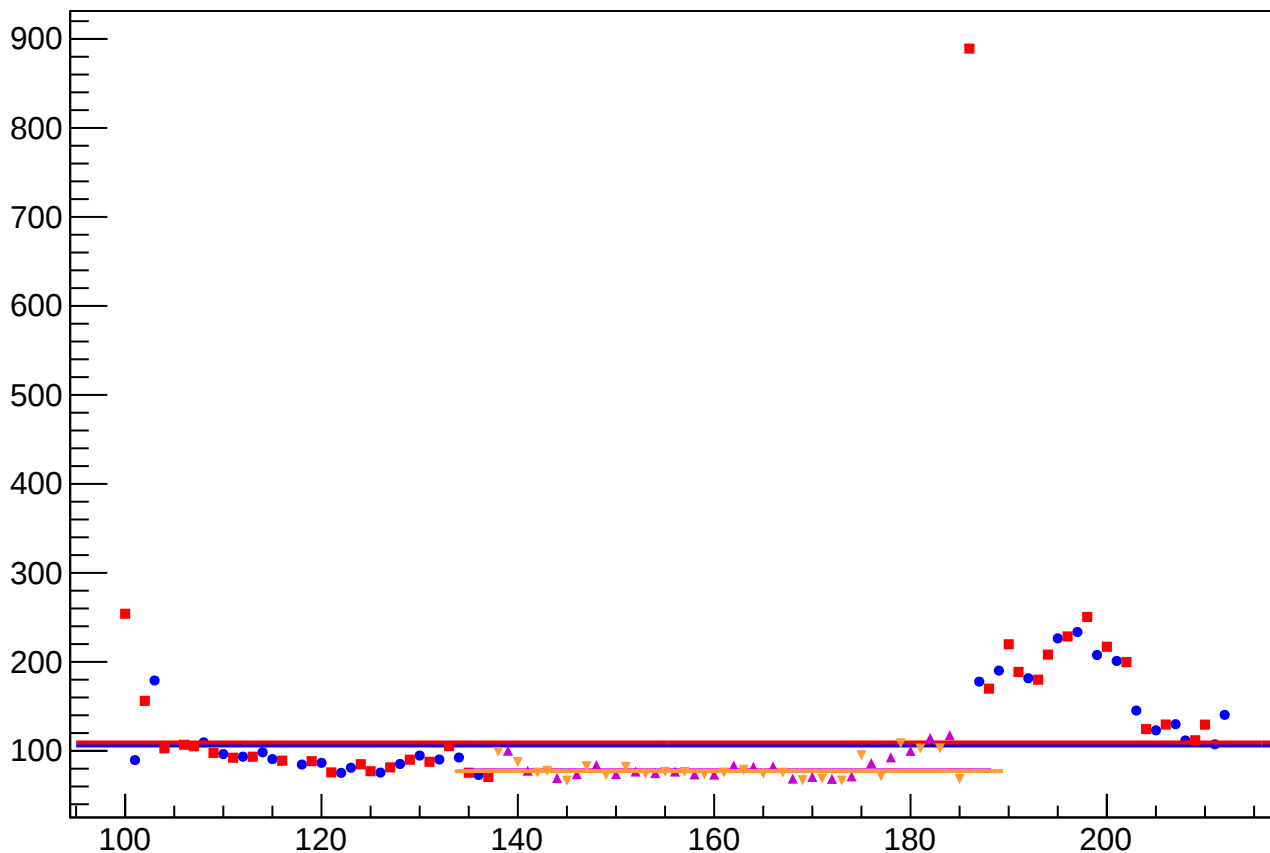
Right: 12.080 $\pm$ 20.423 χ^2 /NDF: 68.8/62

In: 46.996 $\pm$ 15.785 χ^2 /NDF:49.4/52

Out: 37.125 $\pm$ 15.489 χ^2 /NDF:75.9/57

All: 41.967 $\pm$ 11.056 χ^2 /NDF: 125.5/110

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 106.096+/-0.020 χ^2/NDF : 3531438.0/29

Left Out: 77.316+/-0.013 χ^2/NDF : 635622.3/24

Right Out: 109.428+/-0.021 χ^2/NDF : 4360191.6/32

Left In: 78.139+/-0.013 χ^2/NDF : 582108.1/22

Left: 77.712+/-0.009 χ^2/NDF : 1219684.1/47

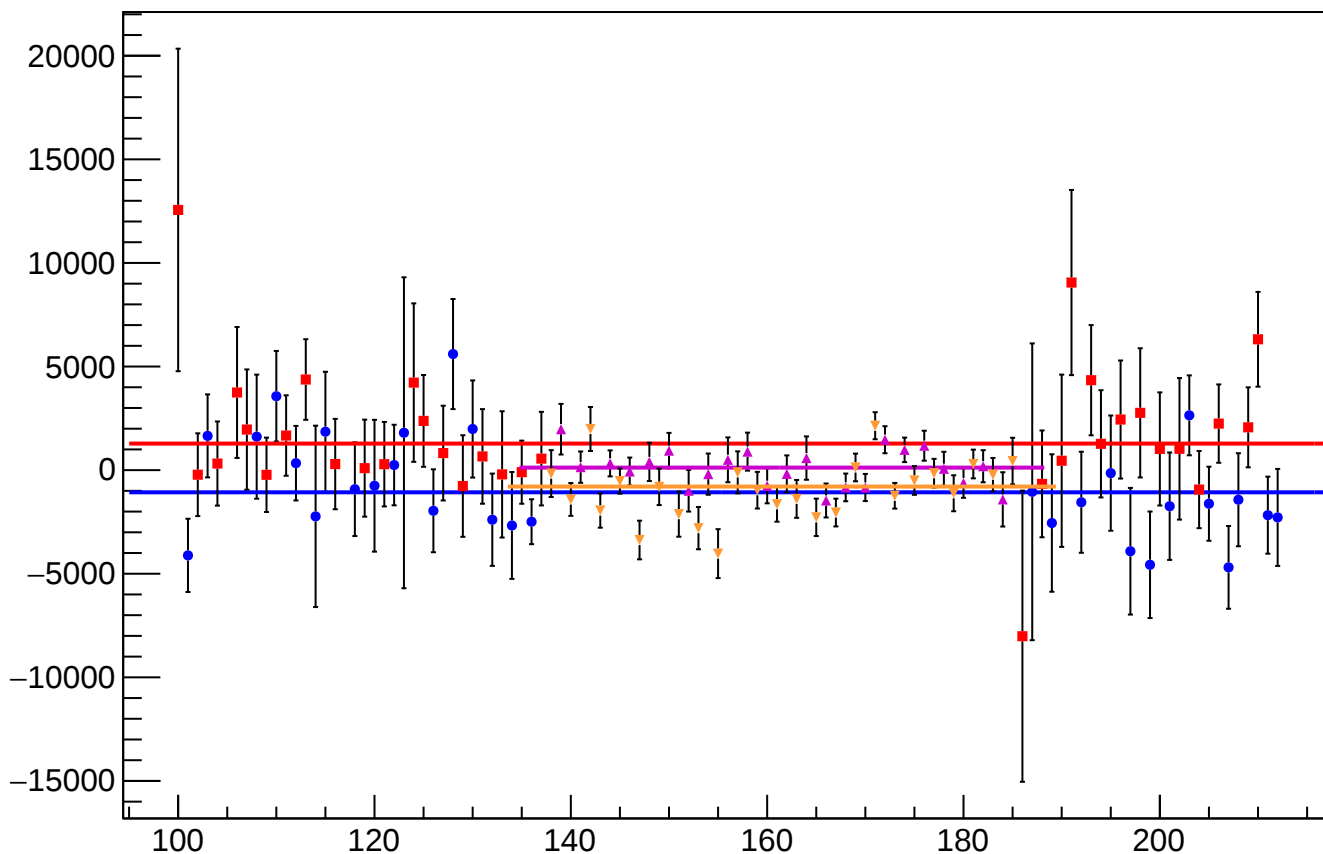
Right: 107.717+/-0.014 χ^2/NDF : 7904930.4/62

In: 86.713+/-0.011 χ^2/NDF : 5447511.8/52

Out: 86.304+/-0.011 χ^2/NDF : 6728317.7/57

All: 86.504+/-0.008 χ^2/NDF : 12176514.4/110

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -1070.111 ± 406.842 $\chi^2/\text{NDF}: 34.0/29$

Left Out: -792.776 ± 162.659 $\chi^2/\text{NDF}: 66.6/24$

Right Out: 1282.142 ± 415.159 $\chi^2/\text{NDF}: 24.1/32$

Left In: 122.198 ± 166.193 $\chi^2/\text{NDF}: 25.9/22$

Left: -345.122 ± 116.247 $\chi^2/\text{NDF}: 108.0/47$

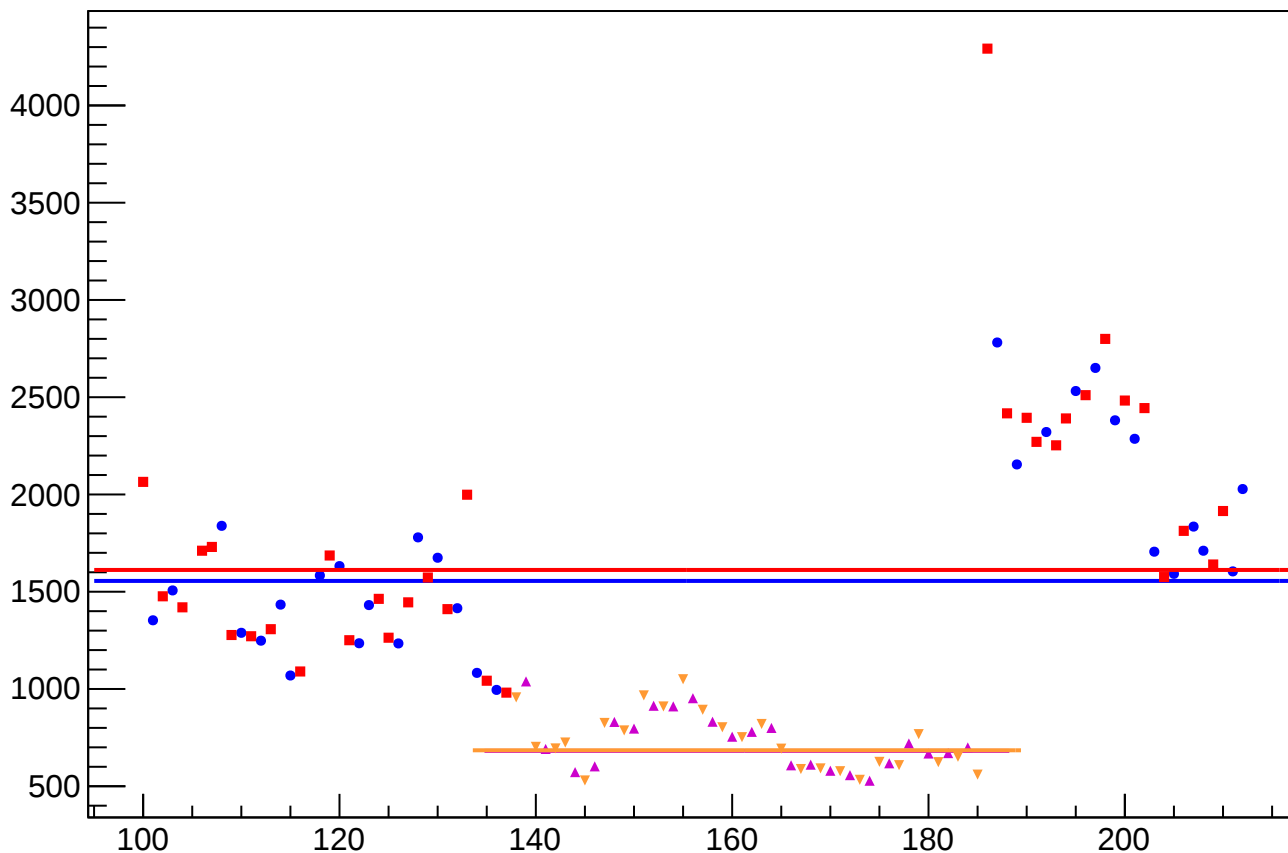
Right: 82.216 ± 290.577 $\chi^2/\text{NDF}: 74.5/62$

In: -48.310 ± 153.852 $\chi^2/\text{NDF}: 67.3/52$

Out: -516.650 ± 151.449 $\chi^2/\text{NDF}: 112.4/57$

All: -286.165 ± 107.930 $\chi^2/\text{NDF}: 184.4/110$

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1555.530+/-0.288 χ^2/NDF : 2261947.8/29

Left Out: 684.785+/-0.115 χ^2/NDF : 1280146.2/24

Right Out: 1611.953+/-0.294 χ^2/NDF : 2714191.8/32

Left In: 681.712+/-0.118 χ^2/NDF : 1119637.0/22

Left: 683.282+/-0.082 χ^2/NDF : 2400132.5/47

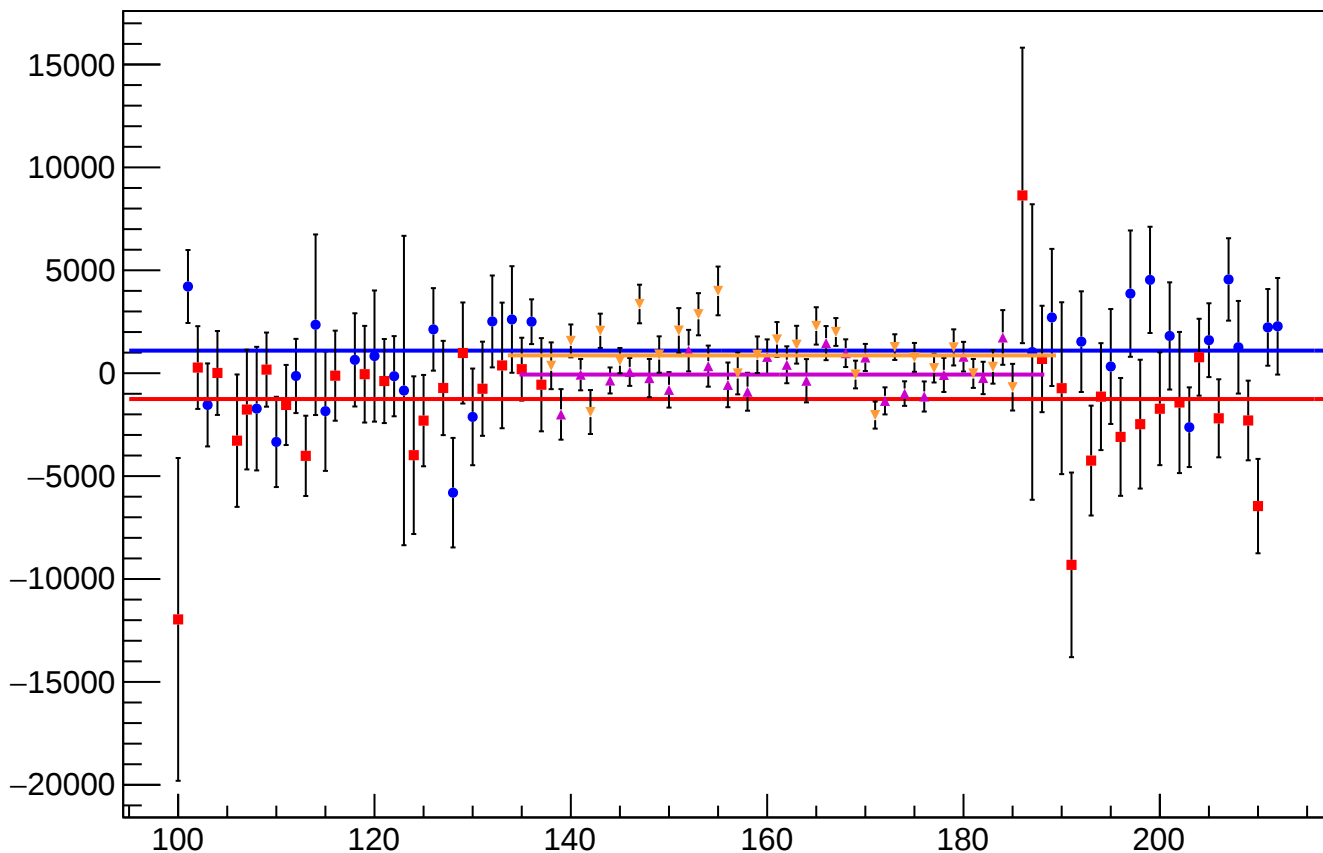
Right: 1583.170+/-0.205 χ^2/NDF : 4994984.3/62

In: 806.673+/-0.109 χ^2/NDF : 11288339.4/52

Out: 808.170+/-0.107 χ^2/NDF : 12641975.2/57

All: 807.434+/-0.076 χ^2/NDF : 23930410.8/11

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 1097.043+/-408.068 χ^2/NDF : 33.5/29

Left Out: 865.597+/-163.885 χ^2/NDF : 62.8/24

Right Out: -1255.286+/-416.567 χ^2/NDF : 24.0/32

Left In: -65.924+/-167.485 χ^2/NDF : 26.4/22

Left: 409.953+/-117.136 χ^2/NDF : 105.1/47

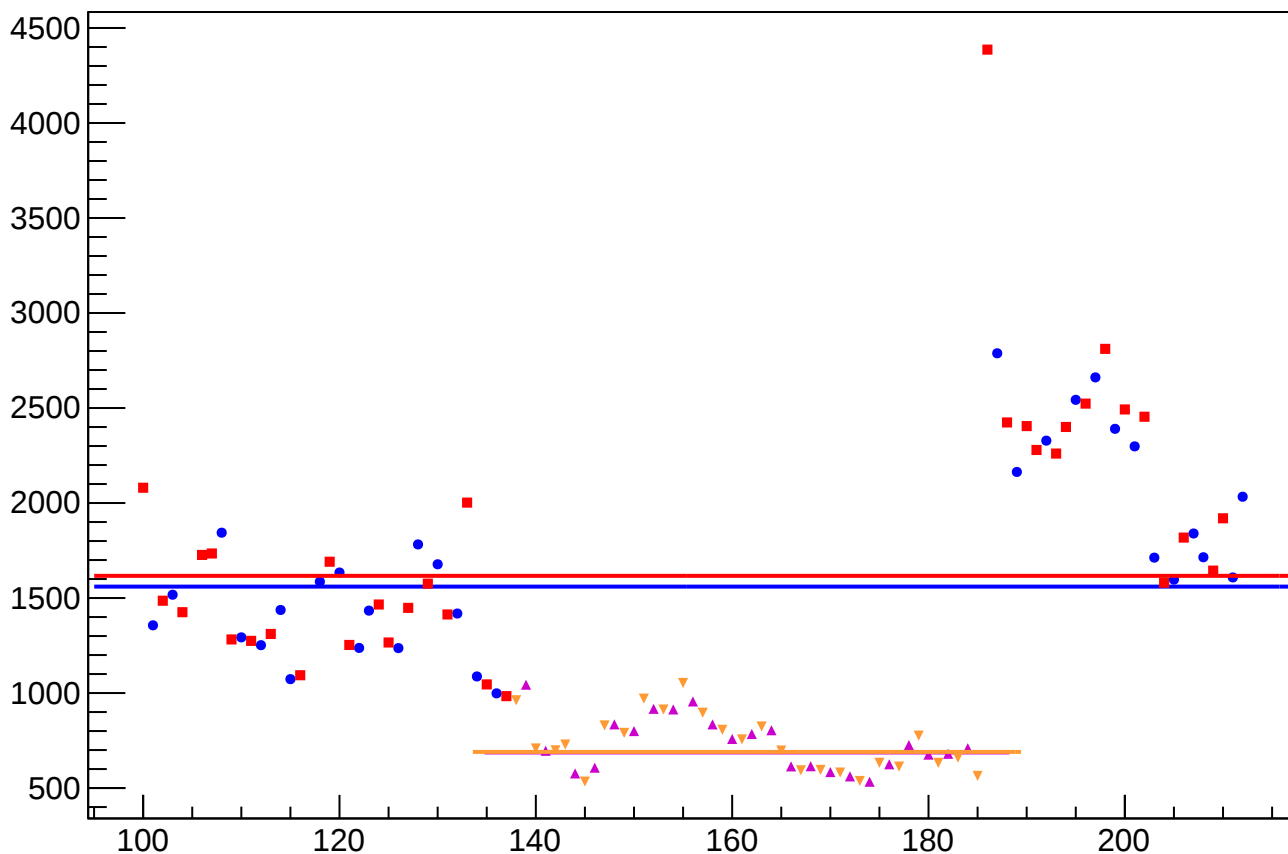
Right: -54.880+/-291.506 χ^2/NDF : 73.8/62

In: 101.740+/-154.942 χ^2/NDF : 66.9/52

Out: 581.329+/-152.507 χ^2/NDF : 109.3/57

All: 345.331+/-108.689 χ^2/NDF : 181.1/110

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1560.125+/-0.289 χ^2/NDF : 2265748.2/29

Left Out: 690.166+/-0.116 χ^2/NDF : 1258158.2/24

Right Out: 1616.831+/-0.295 χ^2/NDF : 2726537.1/32

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

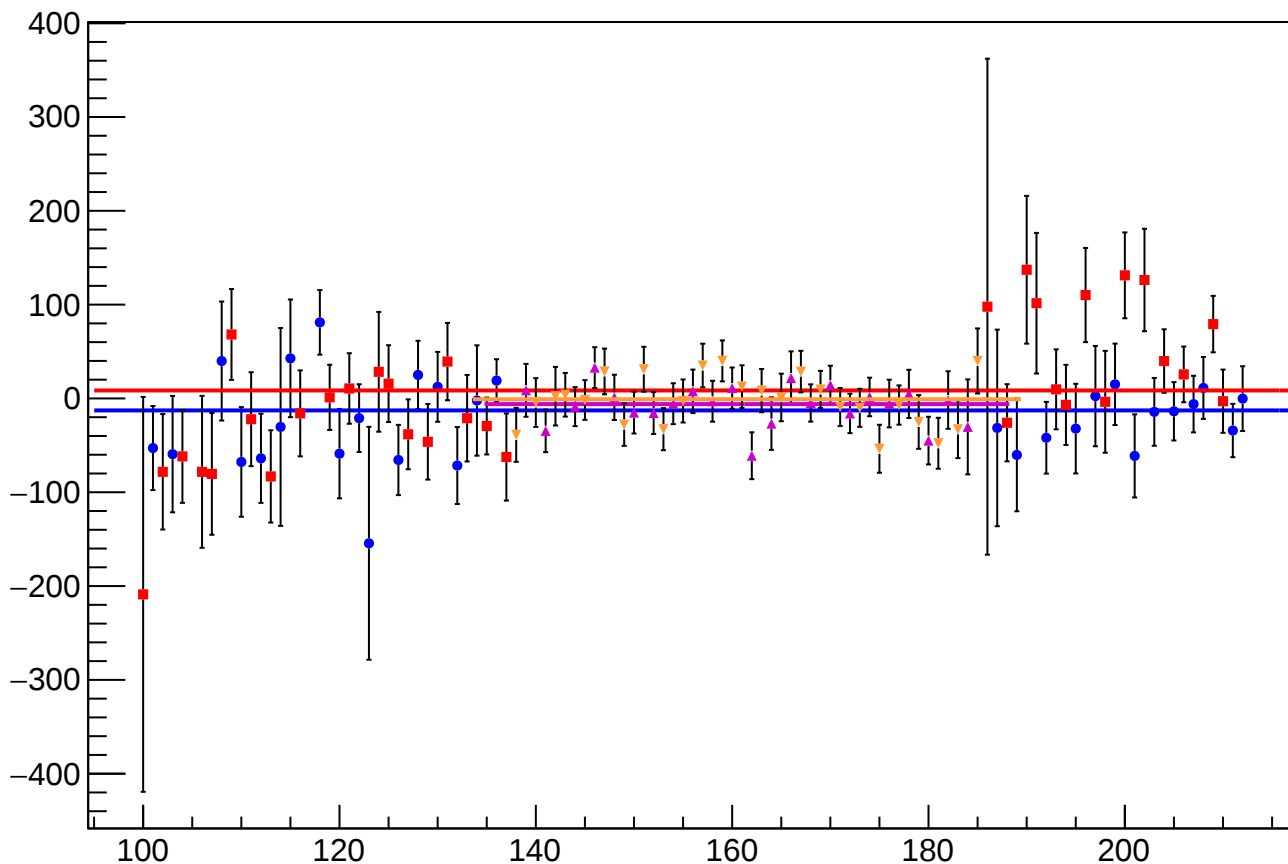
Right: 1587.893+/-0.206 χ^2/NDF : 5011197.6/62

In: 813.063+/-0.110 χ^2/NDF : 11197768.1/52

Out: 814.370+/-0.108 χ^2/NDF : 12555198.4/57

All: 813.727+/-0.077 χ^2/NDF : 23753038.8/111

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -12.765 ± 7.458 χ^2/NDF : 26.6/29

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 8.511 ± 7.736 χ^2/NDF : 50.2/32

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

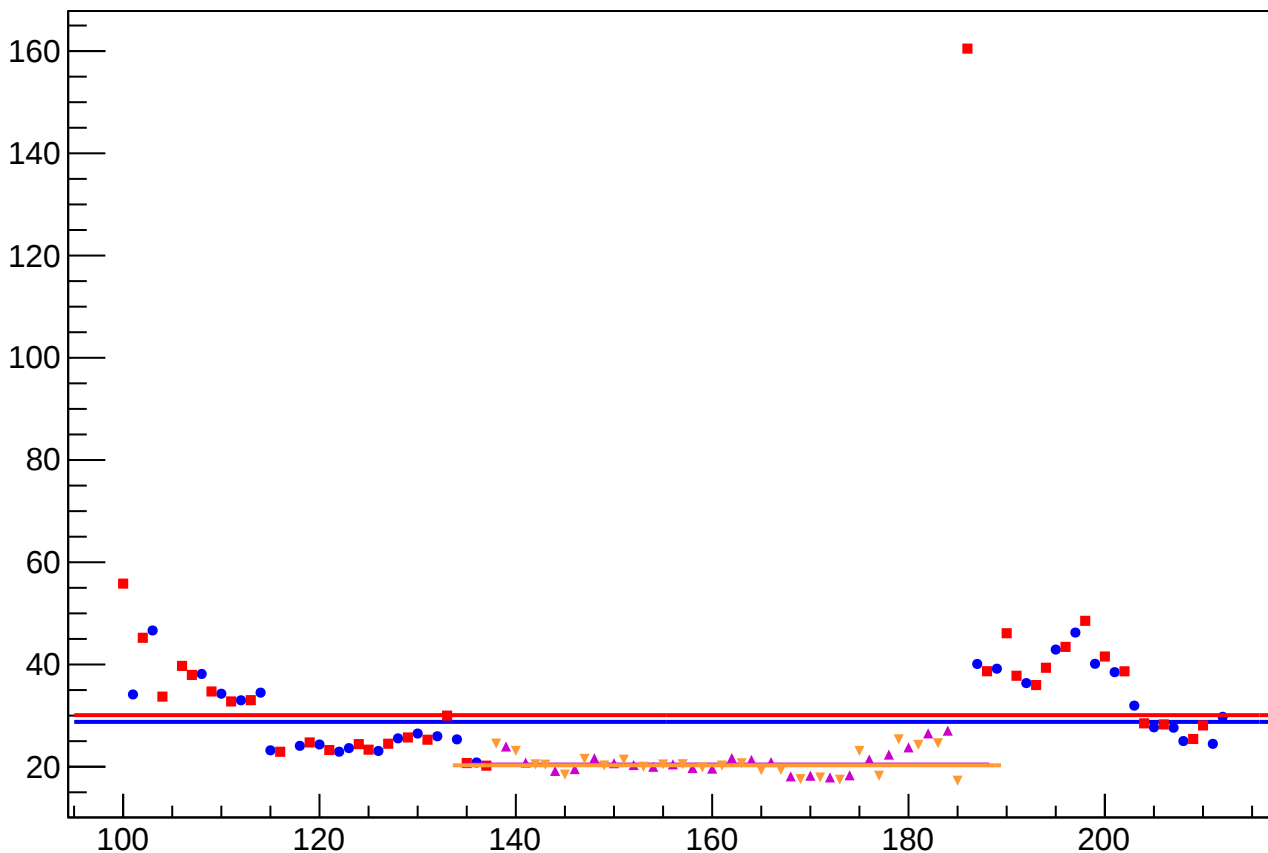
Right: -2.517 ± 5.369 χ^2/NDF : 80.7/62

In: -8.084 ± 4.110 χ^2/NDF : 44.1/52

Out: 1.713 ± 4.054 χ^2/NDF : 79.2/57

All: -3.119 ± 2.886 χ^2/NDF : 126.1/110

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.772 $\pm$ 0.005 χ^2 /NDF: 1612077.0/29

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF:407056.4/24

Right Out: 30.089 $\pm$ 0.005 χ^2 /NDF: 2285126.3/32

Left In: 20.424 $\pm$ 0.003 χ^2 /NDF:323427.4/22

Left: 20.349 $\pm$ 0.002 χ^2 /NDF: 731373.7/47

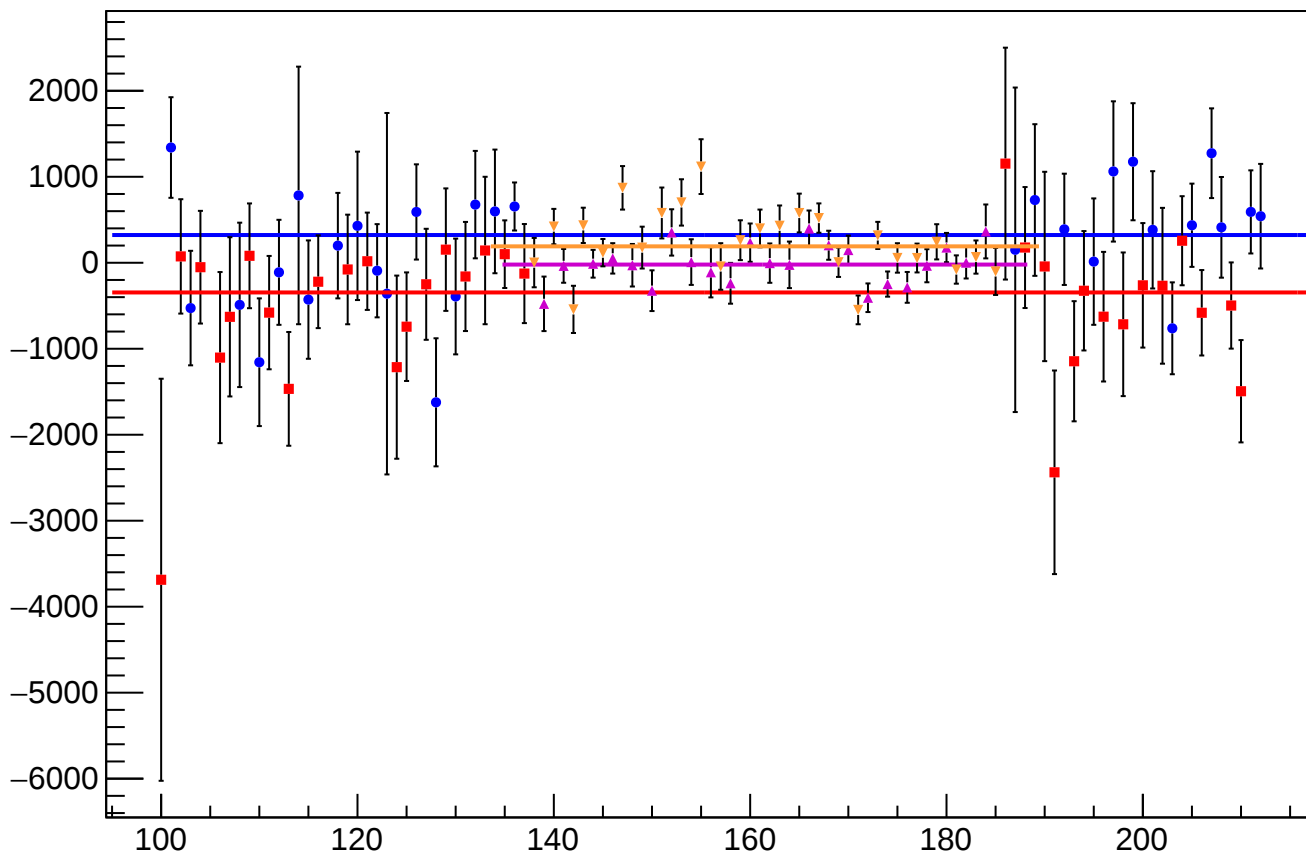
Right: 29.406 $\pm$ 0.004 χ^2 /NDF: 3927280.9/62

In: 22.959 $\pm$ 0.003 χ^2 /NDF:3680398.2/52

Out: 22.973 $\pm$ 0.003 χ^2 /NDF:5024854.7/57

All: 22.966 $\pm$ 0.002 χ^2 /NDF: 8705265.2/110

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 322.593 ± 112.871 $\chi^2/\text{NDF}: 32.7/29$

Left Out: 190.867 ± 41.314 $\chi^2/\text{NDF}: 67.9/24$

Right Out: -345.317 ± 116.670 $\chi^2/\text{NDF}: 22.9/32$

Left In: -20.998 ± 42.291 $\chi^2/\text{NDF}: 27.7/22$

Left: 87.410 ± 29.553 $\chi^2/\text{NDF}: 108.4/47$

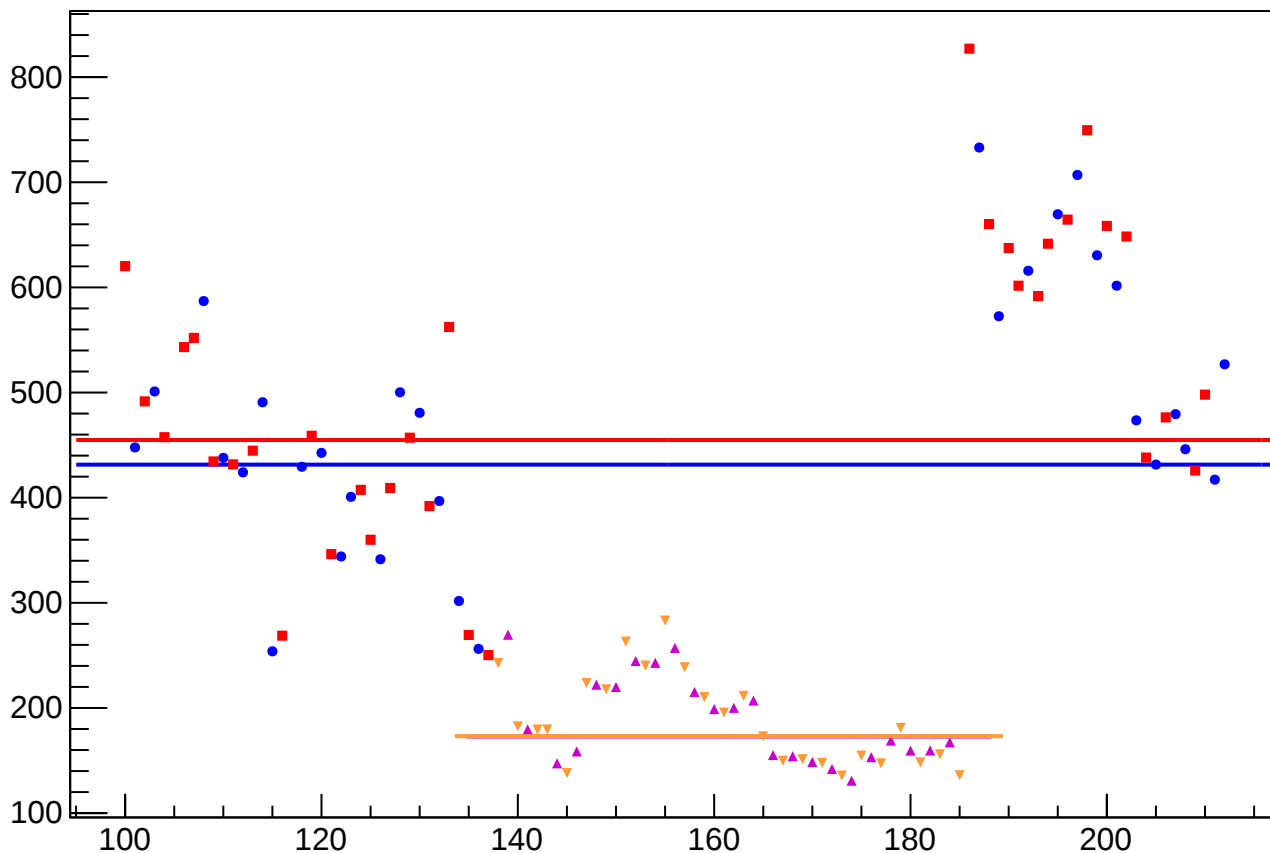
Right: -0.310 ± 81.122 $\chi^2/\text{NDF}: 72.5/62$

In: 21.299 ± 39.602 $\chi^2/\text{NDF}: 68.6/52$

Out: 131.125 ± 38.944 $\chi^2/\text{NDF}: 109.5/57$

All: 77.132 ± 27.767 $\chi^2/\text{NDF}: 182.0/110$

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 431.423+/-0.080 χ^2/NDF : 2284341.6/29

Left Out: 173.210+/-0.029 χ^2/NDF :1561250.6/24

Right Out: 454.887+/-0.082 χ^2/NDF : 2483356.1/32

Left In: 172.828+/-0.030 χ^2/NDF :1372131.7/22

Left: 173.023+/-0.021 χ^2/NDF : 2933465.9/47

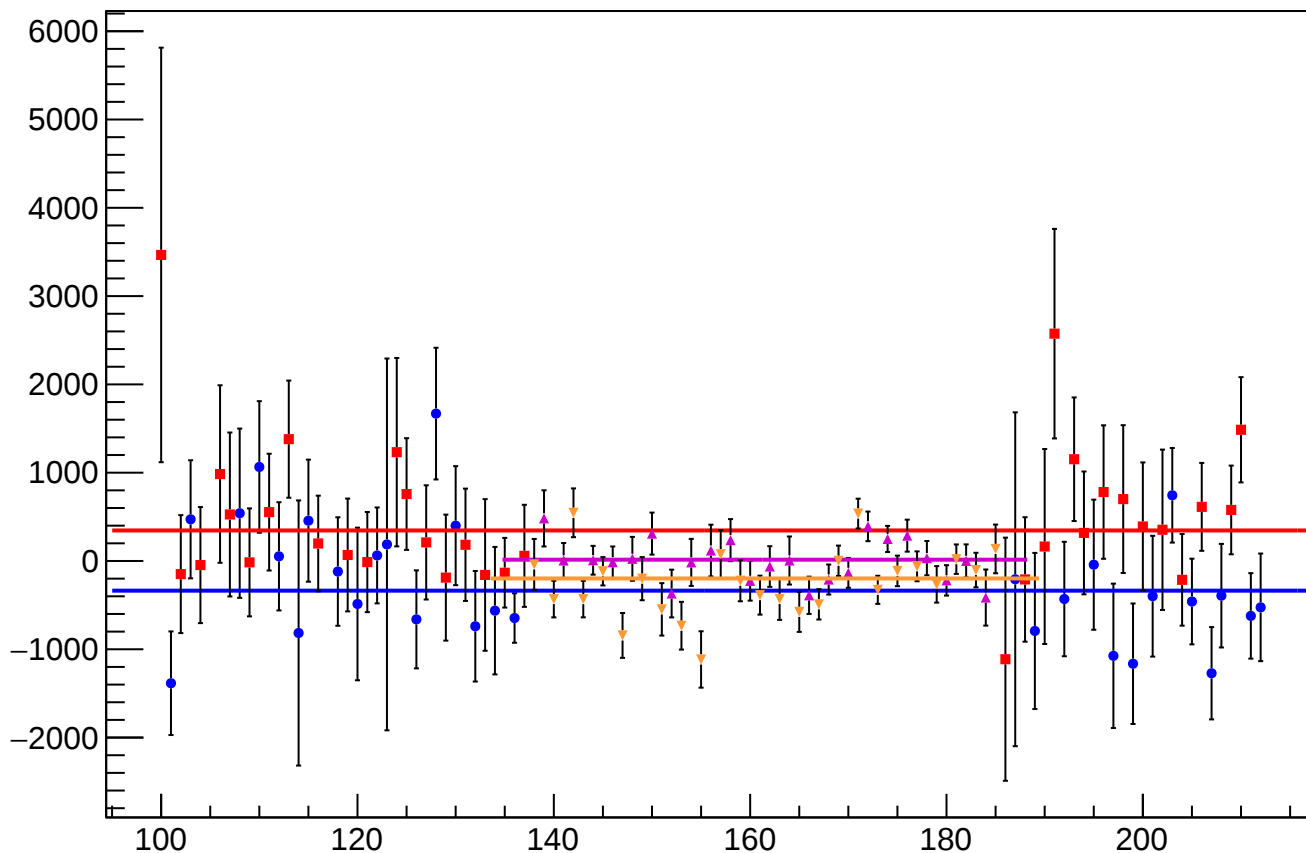
Right: 442.767+/-0.057 χ^2/NDF : 4809482.3/62

In: 204.662+/-0.028 χ^2/NDF :12862111.4/52

Out: 204.595+/-0.028 χ^2/NDF :14403376.0/57

All: 204.628+/-0.020 χ^2/NDF : 27265490.4/111

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -336.113+/-113.159 χ^2/NDF : 32.6/29

Left Out: -197.918+/-41.638 χ^2/NDF :64.3/24

Right Out: 345.750+/-116.993 χ^2/NDF : 23.0/32

Left In: 14.616+/-42.629 χ^2/NDF :27.7/22

Left: -94.151+/-29.787 χ^2/NDF : 104.7/47

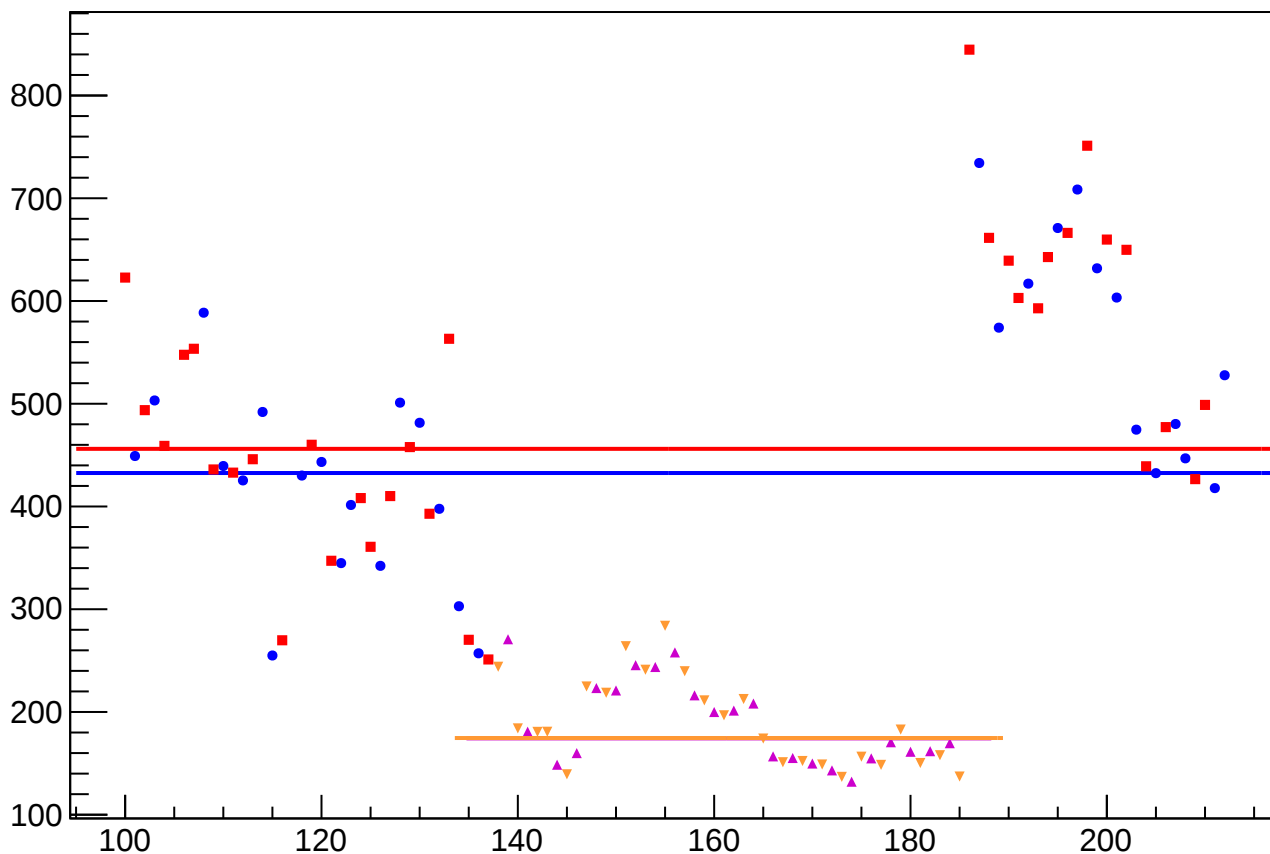
Right: -6.536+/-81.337 χ^2/NDF : 73.1/62

In: -28.973+/-39.893 χ^2/NDF :68.8/52

Out: -136.795+/-39.228 χ^2/NDF :106.4/57

All: -83.790+/-27.970 χ^2/NDF : 178.9/110

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 432.580 ± 0.080 $\chi^2/\text{NDF}: 2277373.1/29$

Left Out: 174.648 ± 0.029 $\chi^2/\text{NDF}: 1531999.5/24$

Right Out: 456.107 ± 0.083 $\chi^2/\text{NDF}: 2486318.8/32$

Left In: 174.288 ± 0.030 $\chi^2/\text{NDF}: 1344779.5/22$

Left: 174.472 ± 0.021 $\chi^2/\text{NDF}: 2876851.9/47$

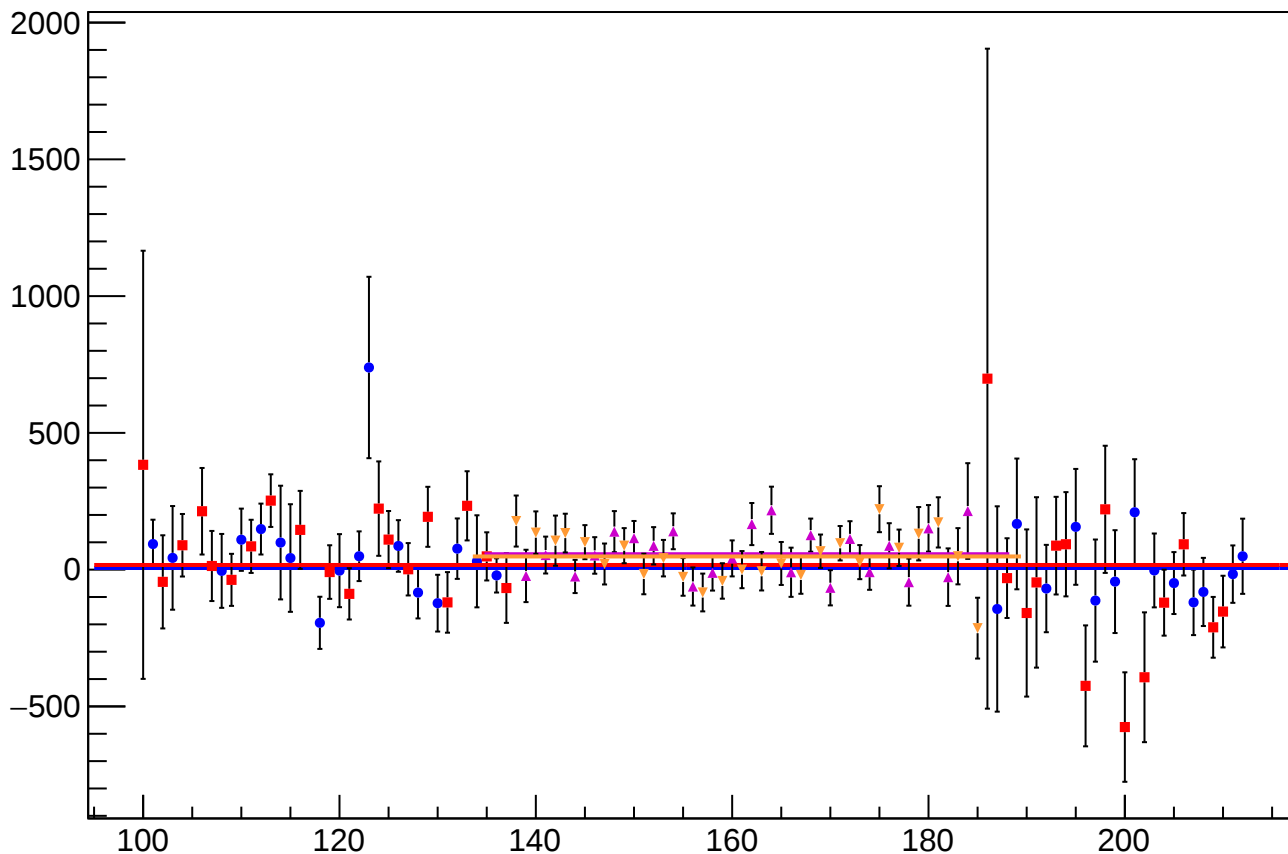
Right: 443.952 ± 0.058 $\chi^2/\text{NDF}: 4805478.6/62$

In: 206.389 ± 0.028 $\chi^2/\text{NDF}: 12747285.6/52$

Out: 206.291 ± 0.028 $\chi^2/\text{NDF}: 14292508.7/57$

All: 206.339 ± 0.020 $\chi^2/\text{NDF}: 27039800.3/111$

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 6.032 ± 22.310 $\chi^2/\text{NDF}: 22.5/29$

Left Out: 48.233 ± 14.616 $\chi^2/\text{NDF}: 29.3/24$

Right Out: 17.056 ± 22.637 $\chi^2/\text{NDF}: 46.4/32$

Left In: 56.403 ± 15.182 $\chi^2/\text{NDF}: 27.5/22$

Left: 52.163 ± 10.529 $\chi^2/\text{NDF}: 56.9/47$

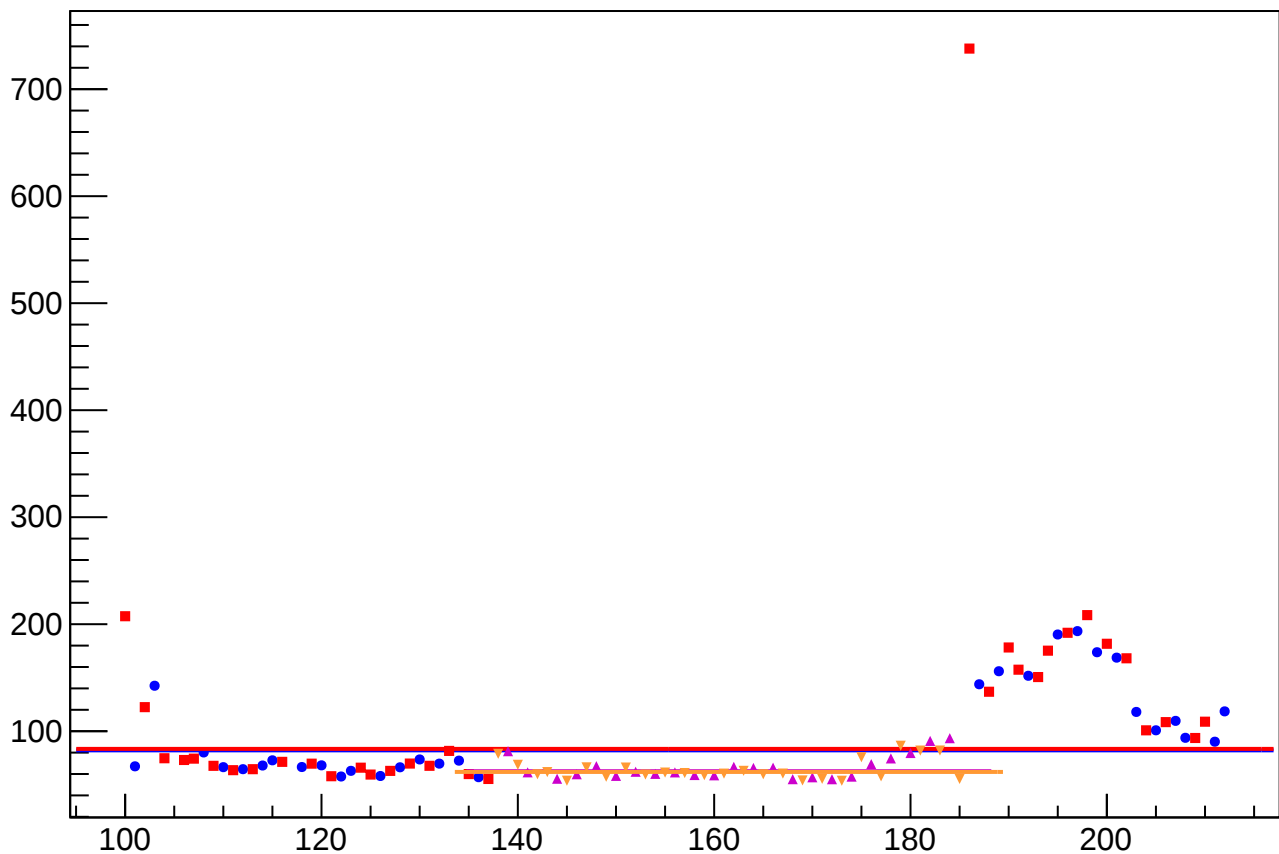
Right: 11.464 ± 15.890 $\chi^2/\text{NDF}: 69.0/62$

In: 40.460 ± 12.551 $\chi^2/\text{NDF}: 53.5/52$

Out: 39.060 ± 12.279 $\chi^2/\text{NDF}: 77.0/57$

All: 39.744 ± 8.777 $\chi^2/\text{NDF}: 130.4/110$

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 82.105 $\pm$ 0.016 χ^2 /NDF: 4157003.8/29

Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24

Right Out: 83.473 $\pm$ 0.016 χ^2 /NDF: 5072245.7/32

Left In: 62.607 $\pm$ 0.011 χ^2 /NDF: 575516.1/22

Left: 62.264 $\pm$ 0.007 χ^2 /NDF: 1182470.7/47

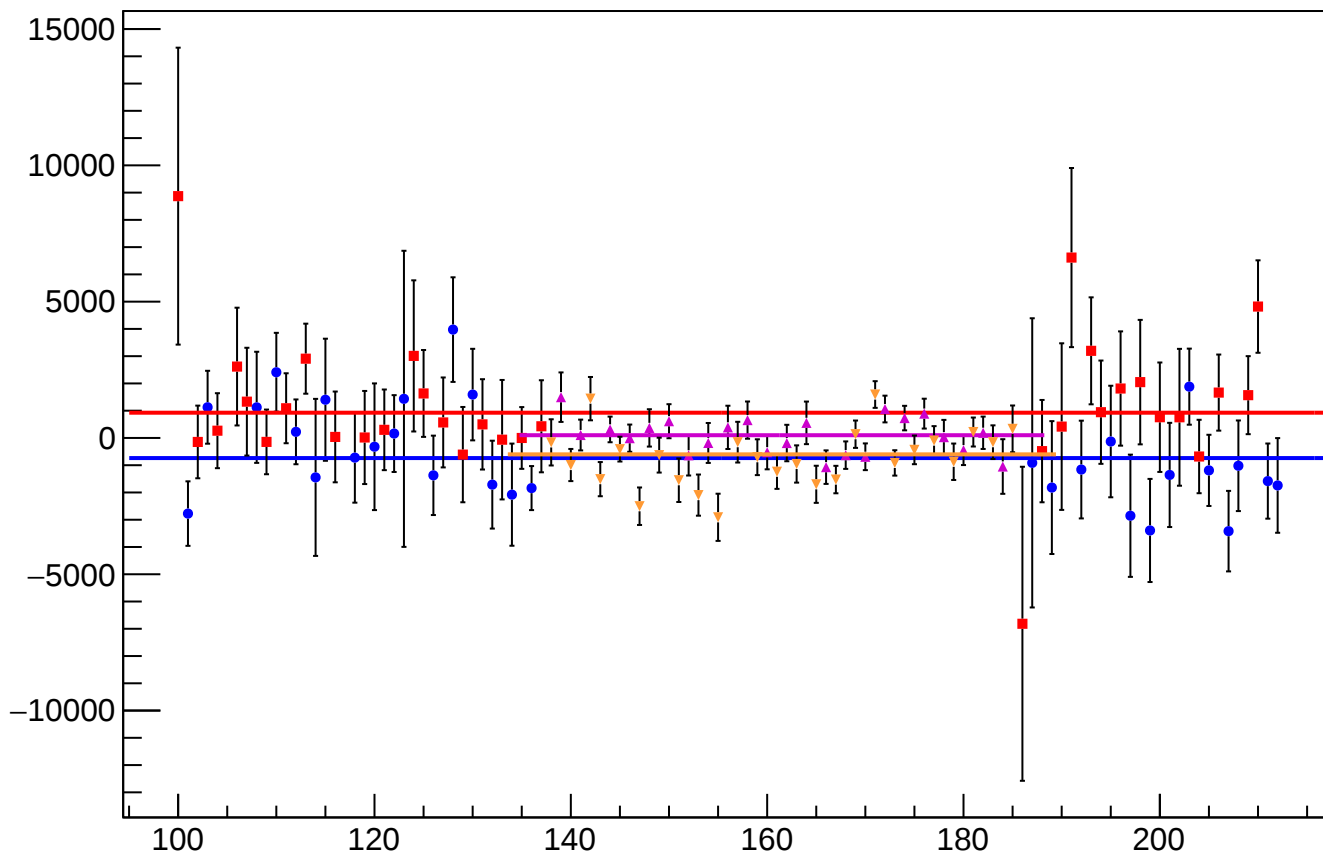
Right: 82.779 $\pm$ 0.011 χ^2 /NDF: 9232954.7/62

In: 68.779 $\pm$ 0.009 χ^2 /NDF: 5776618.9/52

Out: 68.280 $\pm$ 0.009 χ^2 /NDF: 6953730.2/57

All: 68.524 $\pm$ 0.006 χ^2 /NDF: 12731960.9/110

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -737.821 $\pm$ 292.386 χ^2 /NDF: 34.6/29

Left Out: -601.486 $\pm$ 122.119 χ^2 /NDF:65.4/24

Right Out: 926.251 $\pm$ 296.419 χ^2 /NDF: 24.6/32

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

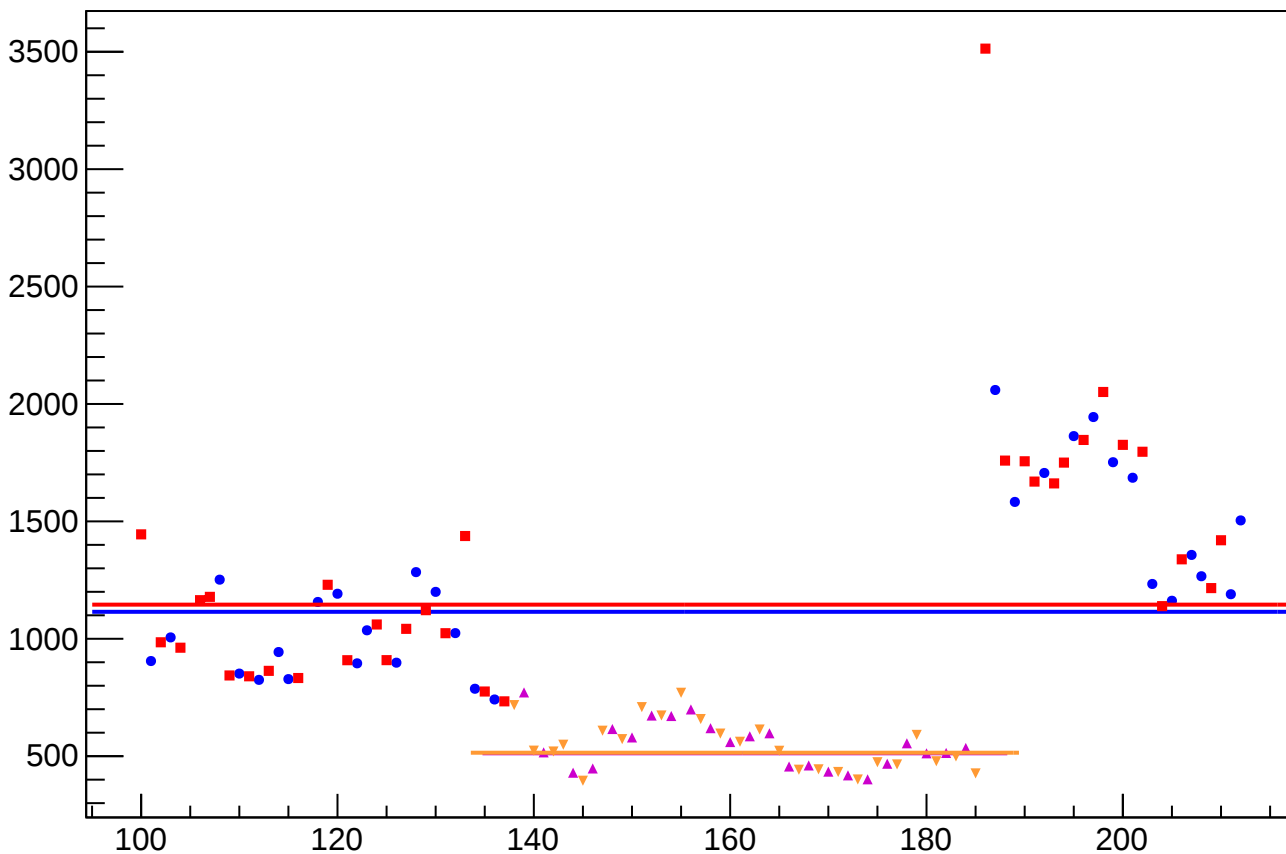
Right: 82.817 $\pm$ 208.159 χ^2 /NDF: 75.1/62

In: -28.521 $\pm$ 114.723 χ^2 /NDF:67.0/52

Out: -379.812 $\pm$ 112.912 χ^2 /NDF:112.7/57

All: -206.961 $\pm$ 80.473 χ^2 /NDF: 184.4/110

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1114.878 $\pm$ 0.207 χ^2 /NDF: 2418251.4/29

Left Out: 514.758 $\pm$ 0.086 χ^2 /NDF:1194945.9/24

Right Out: 1145.395 $\pm$ 0.210 χ^2 /NDF: 2992994.2/32

Left In: 512.199 $\pm$ 0.088 χ^2 /NDF:1041302.8/22

Left: 513.505 $\pm$ 0.062 χ^2 /NDF: 2236678.4/47

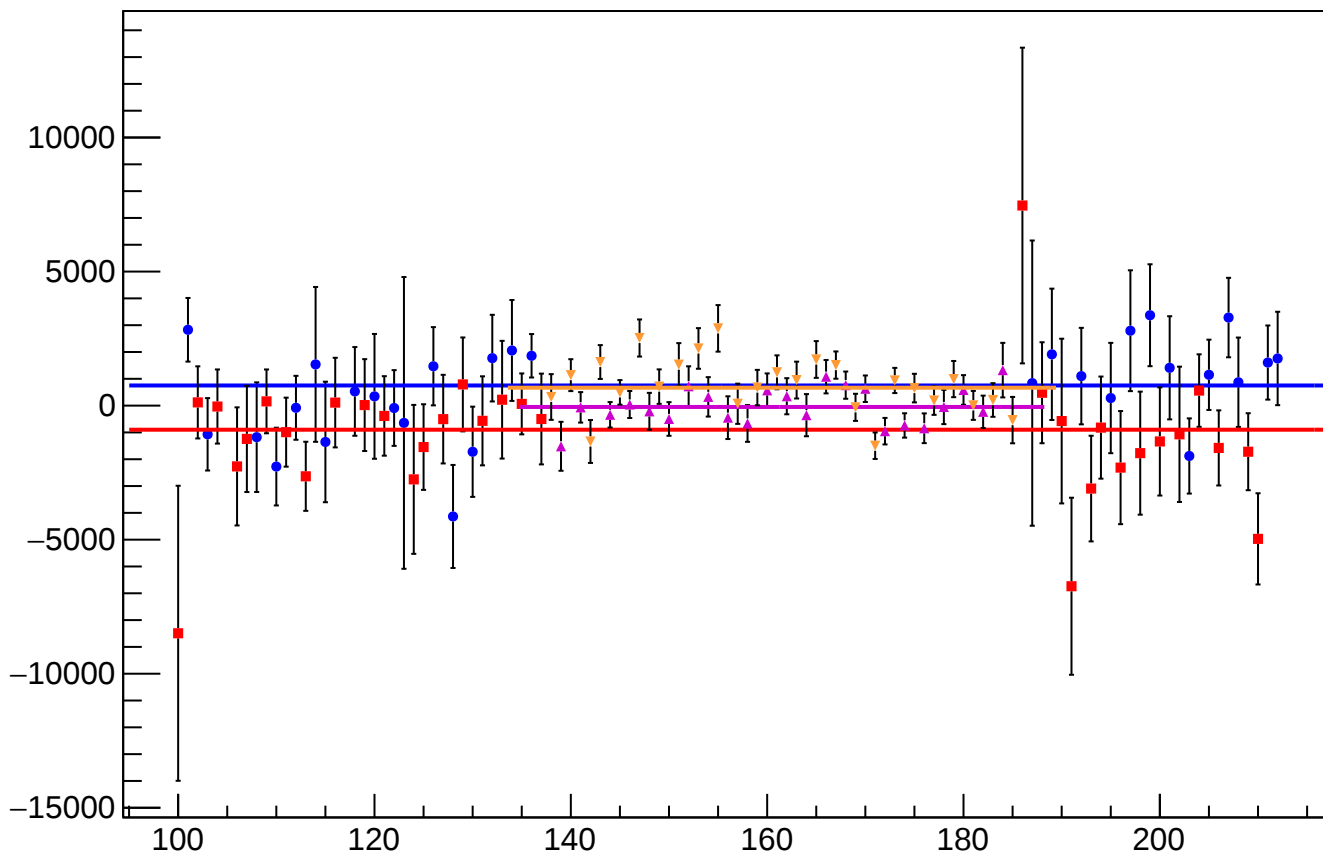
Right: 1129.927 $\pm$ 0.147 χ^2 /NDF: 5421990.4/62

In: 604.983 $\pm$ 0.081 χ^2 /NDF:10648796.5/52

Out: 606.263 $\pm$ 0.080 χ^2 /NDF:11927076.7/57

All: 605.633 $\pm$ 0.057 χ^2 /NDF: 22575999.7/11

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 751.266 $\pm$ 293.467 χ^2 /NDF: 34.1/29

Left Out: 667.625 $\pm$ 123.146 χ^2 /NDF:61.5/24

Right Out: -898.666 $\pm$ 297.642 χ^2 /NDF: 24.4/32

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

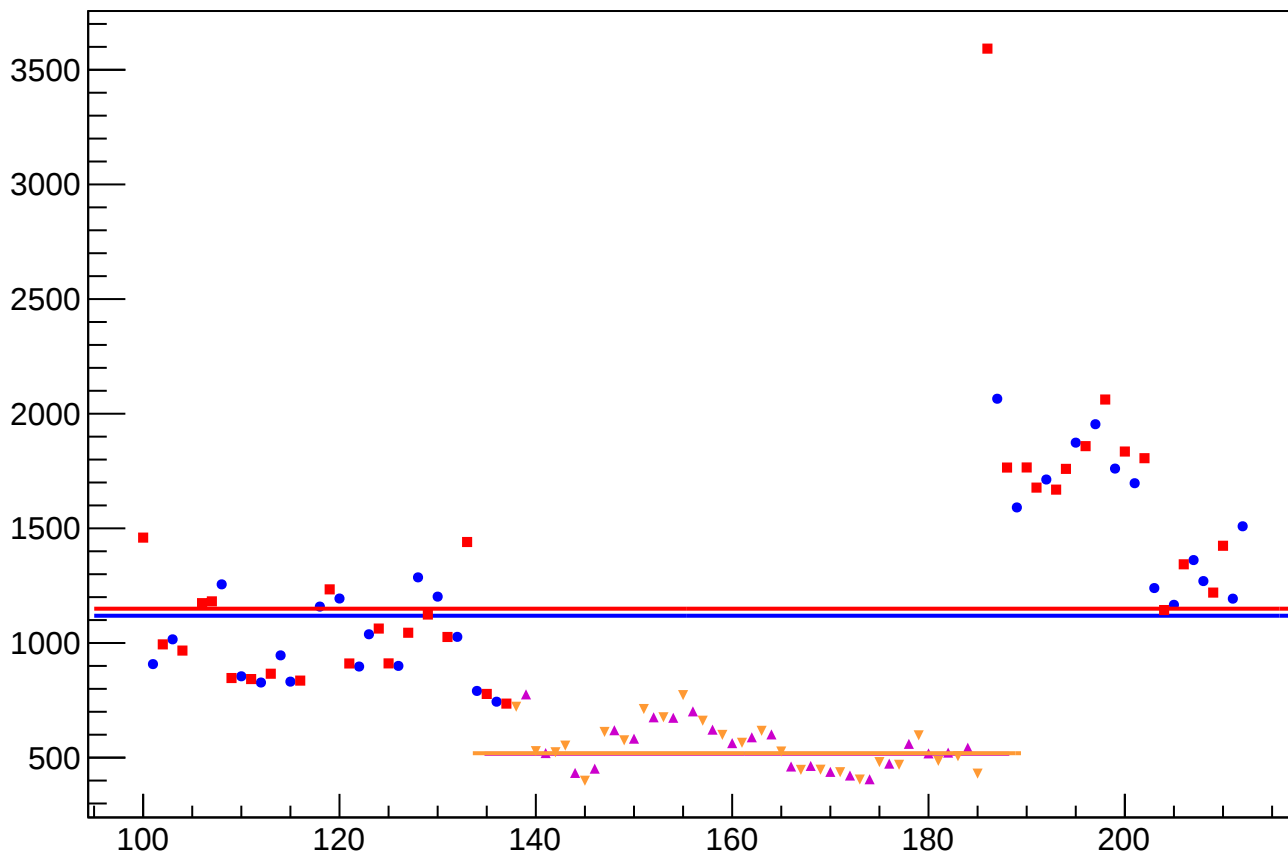
Right: -62.045 $\pm$ 208.973 χ^2 /NDF: 74.0/62

In: 74.324 $\pm$ 115.628 χ^2 /NDF:66.4/52

Out: 438.698 $\pm$ 113.791 χ^2 /NDF:109.5/57

All: 259.428 $\pm$ 81.104 χ^2 /NDF: 181.0/110

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1118.878 $\pm$ 0.208 χ^2 /NDF: 2424782.8/29

Left Out: 519.254 $\pm$ 0.087 χ^2 /NDF:1172411.1/24

Right Out: 1149.598 $\pm$ 0.210 χ^2 /NDF: 3007280.8/32

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

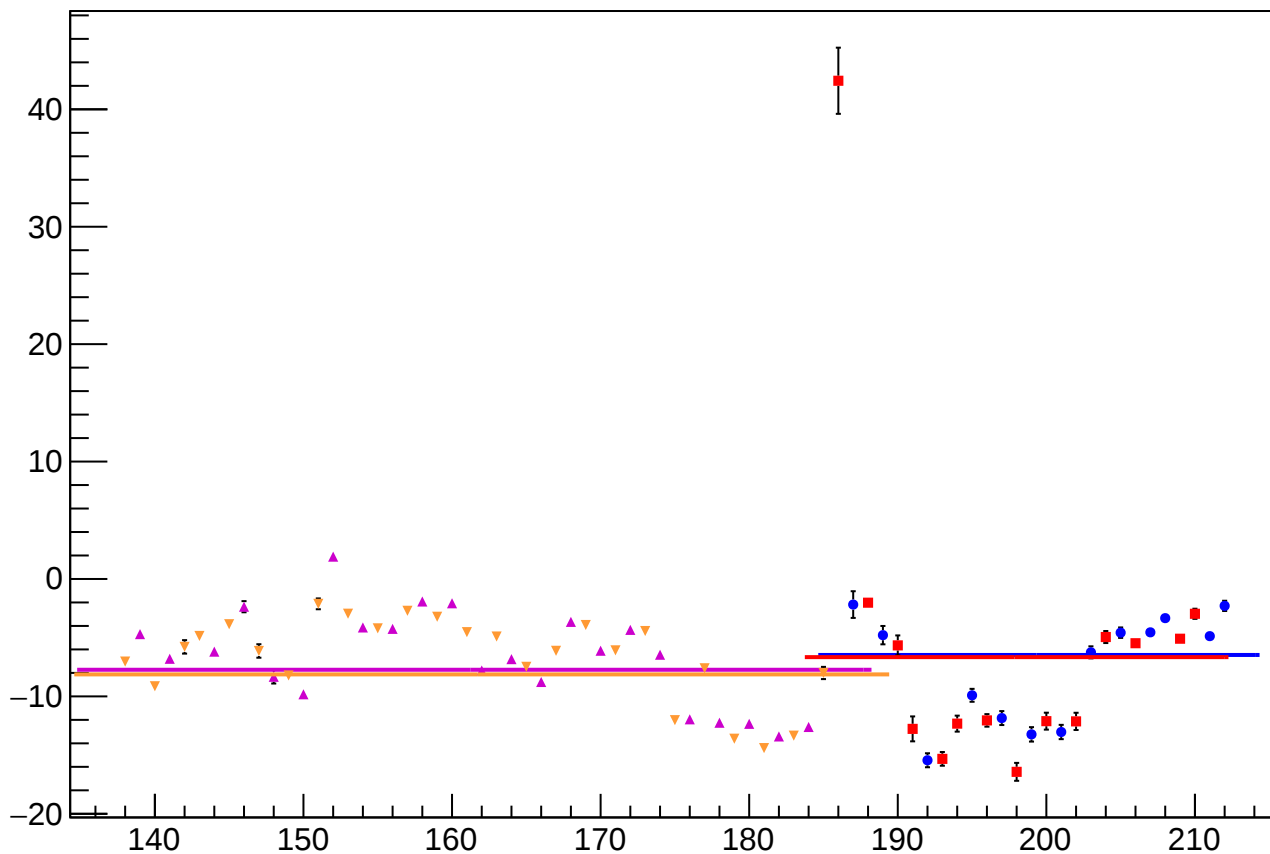
Right: 1134.021 $\pm$ 0.148 χ^2 /NDF: 5442866.4/62

In: 610.261 $\pm$ 0.082 χ^2 /NDF:10557673.5/52

Out: 611.384 $\pm$ 0.080 χ^2 /NDF:11838702.9/57

All: 610.832 $\pm$ 0.057 χ^2 /NDF: 22396472.3/111

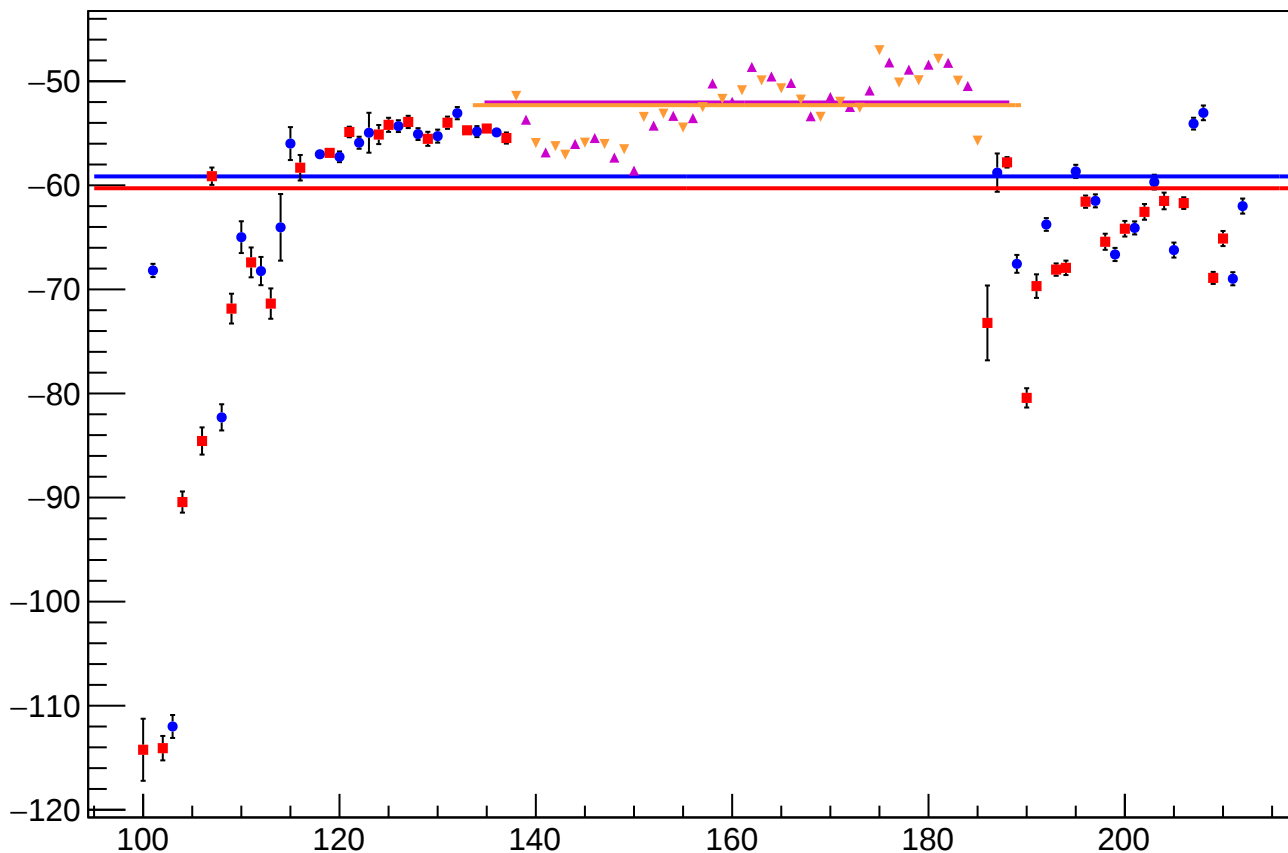
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.472 ± 0.137 $\chi^2/\text{NDF}: 829.2/12$
 Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$
 Right Out: -6.657 ± 0.139 $\chi^2/\text{NDF}: 1315.9/13$
 Left In: -7.732 ± 0.069 $\chi^2/\text{NDF}: 3719.0/22$

Left: -7.934 ± 0.048 $\chi^2/\text{NDF}: 7371.4/47$
 Right: -6.563 ± 0.098 $\chi^2/\text{NDF}: 2146.0/26$
 In: -7.478 ± 0.062 $\chi^2/\text{NDF}: 4615.9/35$
 Out: -7.848 ± 0.061 $\chi^2/\text{NDF}: 5041.9/38$
 All: -7.665 ± 0.043 $\chi^2/\text{NDF}: 9676.2/74$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -59.144 ± 0.114 $\chi^2/\text{NDF}: 4457.6/29$

Left Out: -52.297 ± 0.055 $\chi^2/\text{NDF}: 2657.5/24$

Right Out: -60.282 ± 0.114 $\chi^2/\text{NDF}: 6252.4/32$

Left In: -52.038 ± 0.057 $\chi^2/\text{NDF}: 3180.4/22$

Left: -52.172 ± 0.040 $\chi^2/\text{NDF}: 5848.6/47$

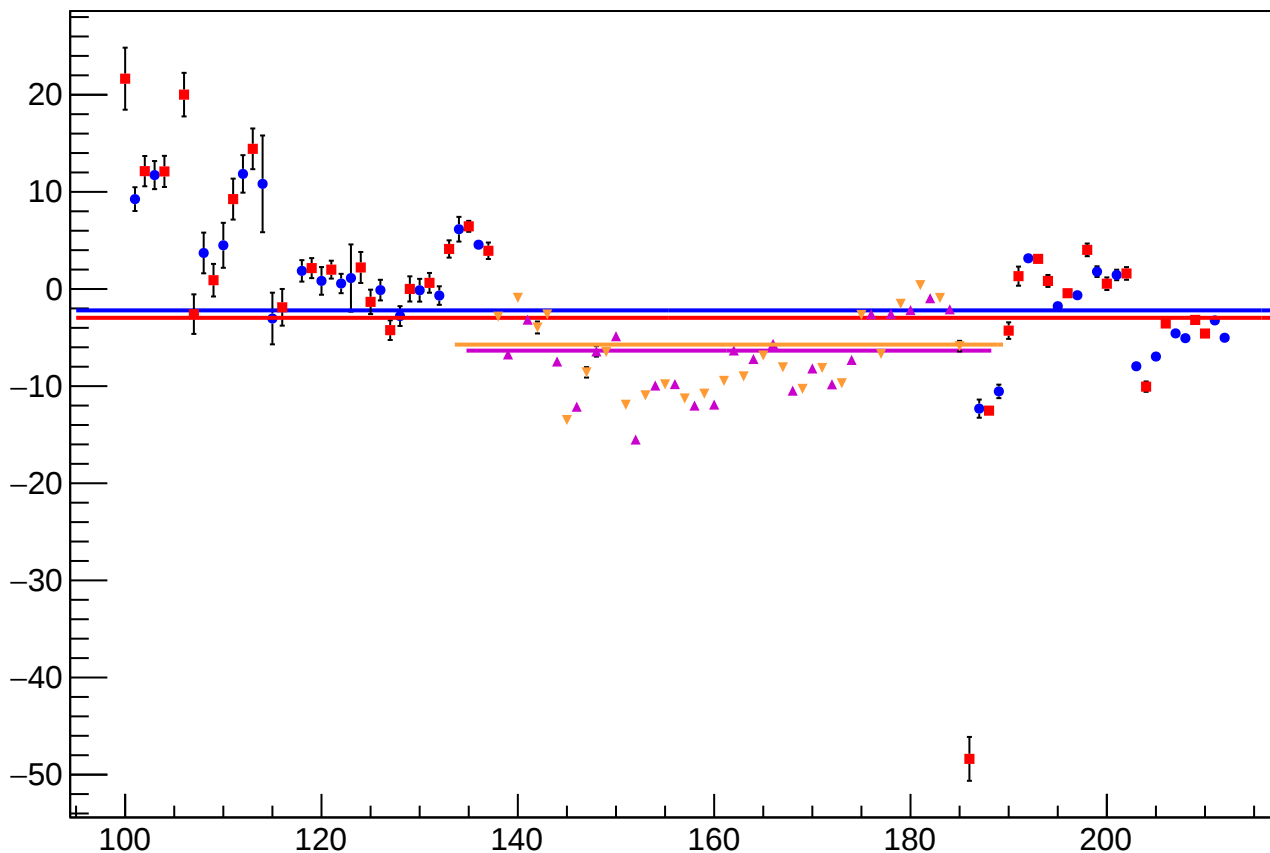
Right: -59.716 ± 0.081 $\chi^2/\text{NDF}: 10759.9/62$

In: -53.459 ± 0.051 $\chi^2/\text{NDF}: 10729.9/52$

Out: -53.814 ± 0.050 $\chi^2/\text{NDF}: 12905.3/57$

All: -53.642 ± 0.036 $\chi^2/\text{NDF}: 23660.0/110$

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.200 ± 0.116 $\chi^2/\text{NDF}: 1476.5/29$

Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$

Right Out: -2.966 ± 0.115 $\chi^2/\text{NDF}: 3204.9/32$

Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$

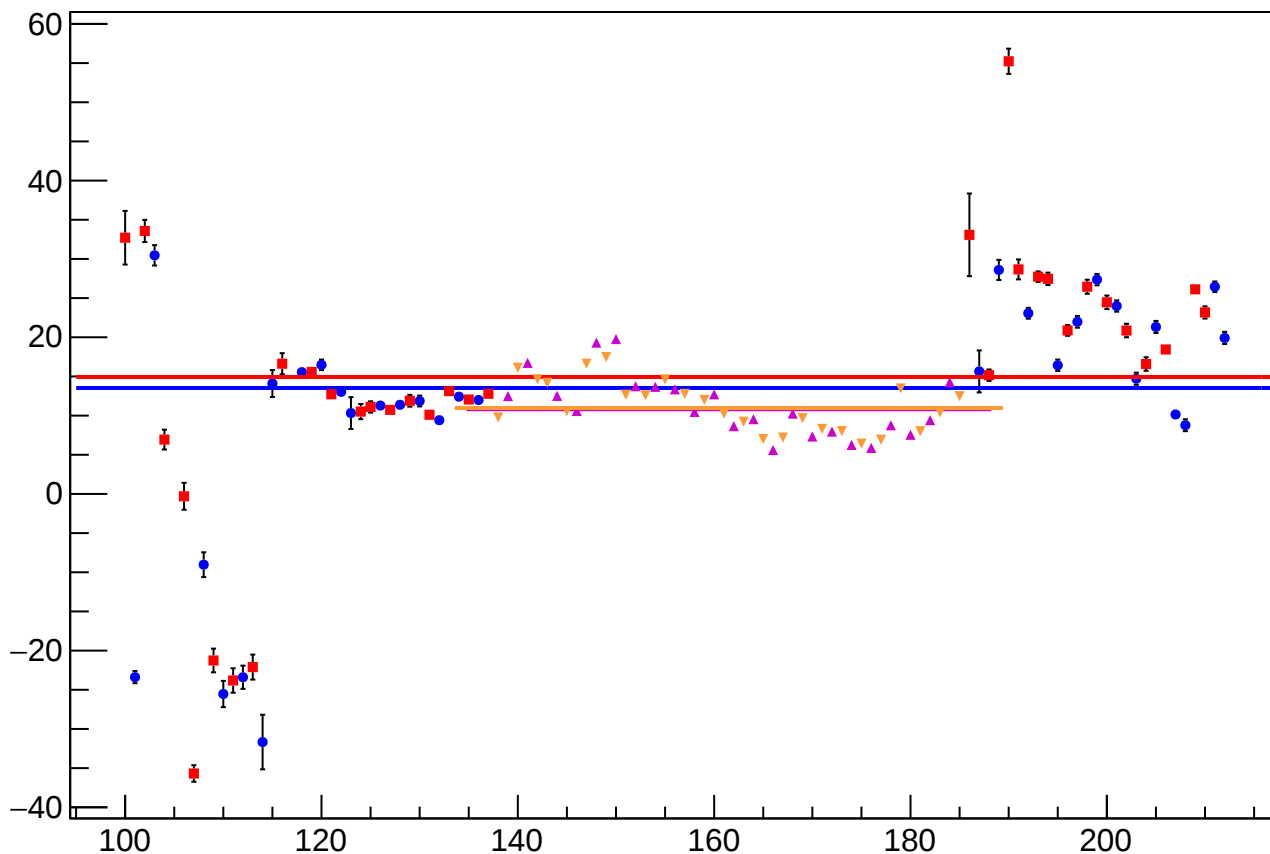
Right: -2.586 ± 0.082 $\chi^2/\text{NDF}: 4703.2/62$

In: -5.274 ± 0.059 $\chi^2/\text{NDF}: 5801.7/52$

Out: -5.018 ± 0.058 $\chi^2/\text{NDF}: 7612.5/57$

All: -5.144 ± 0.042 $\chi^2/\text{NDF}: 13423.7/110$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.527 $\pm$ 0.127 χ^2 /NDF: 5767.0/29

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF: 2637.7/24

Right Out: 14.934 $\pm$ 0.129 χ^2 /NDF: 6868.8/32

Left In: 10.813 $\pm$ 0.063 χ^2 /NDF: 3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47

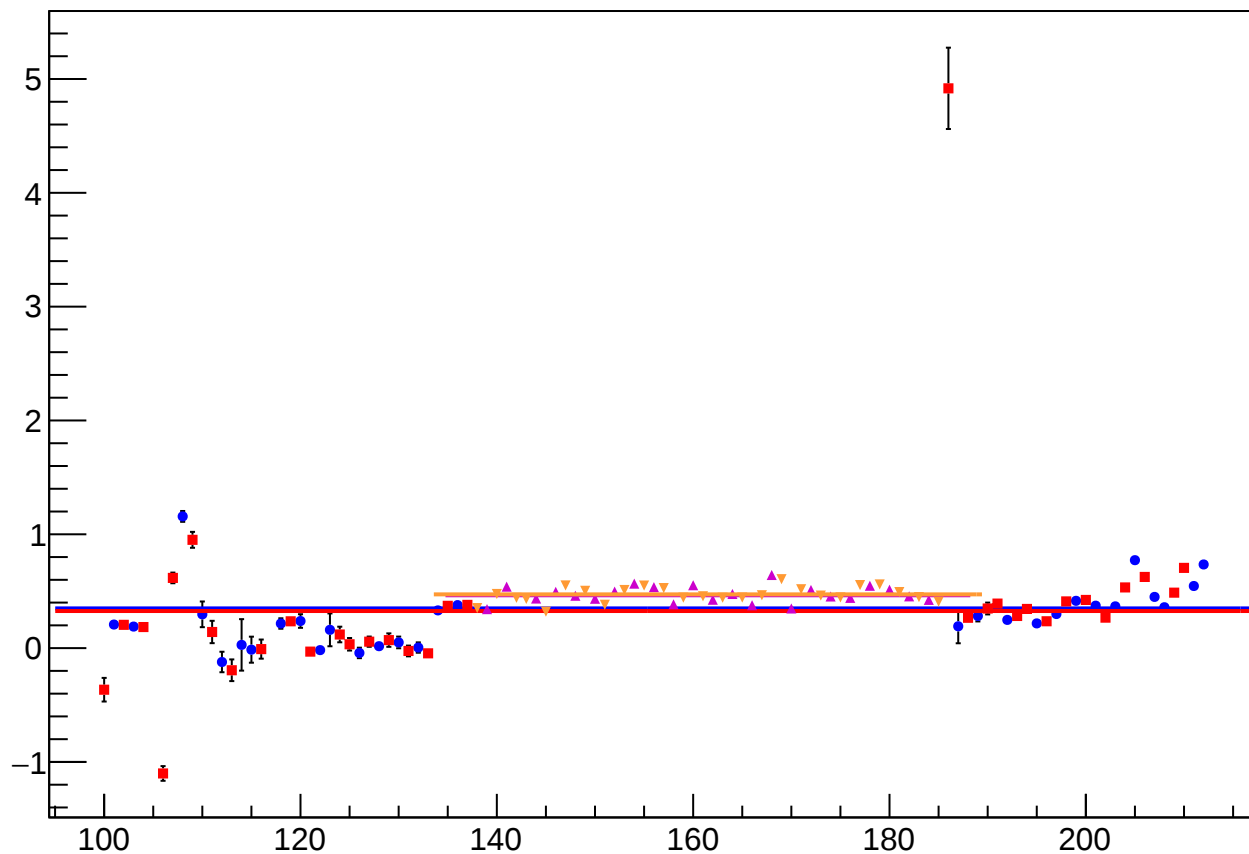
Right: 14.220 $\pm$ 0.091 χ^2 /NDF: 12696.1/62

In: 11.350 $\pm$ 0.057 χ^2 /NDF: 9679.1/52

Out: 11.699 $\pm$ 0.055 χ^2 /NDF: 10277.1/57

All: 11.528 $\pm$ 0.040 χ^2 /NDF: 19975.7/110

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.349 $\pm$ 0.006 χ^2 /NDF: 1080.1/29

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF:519.0/24

Right Out: 0.326 $\pm$ 0.006 χ^2 /NDF: 1655.4/32

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

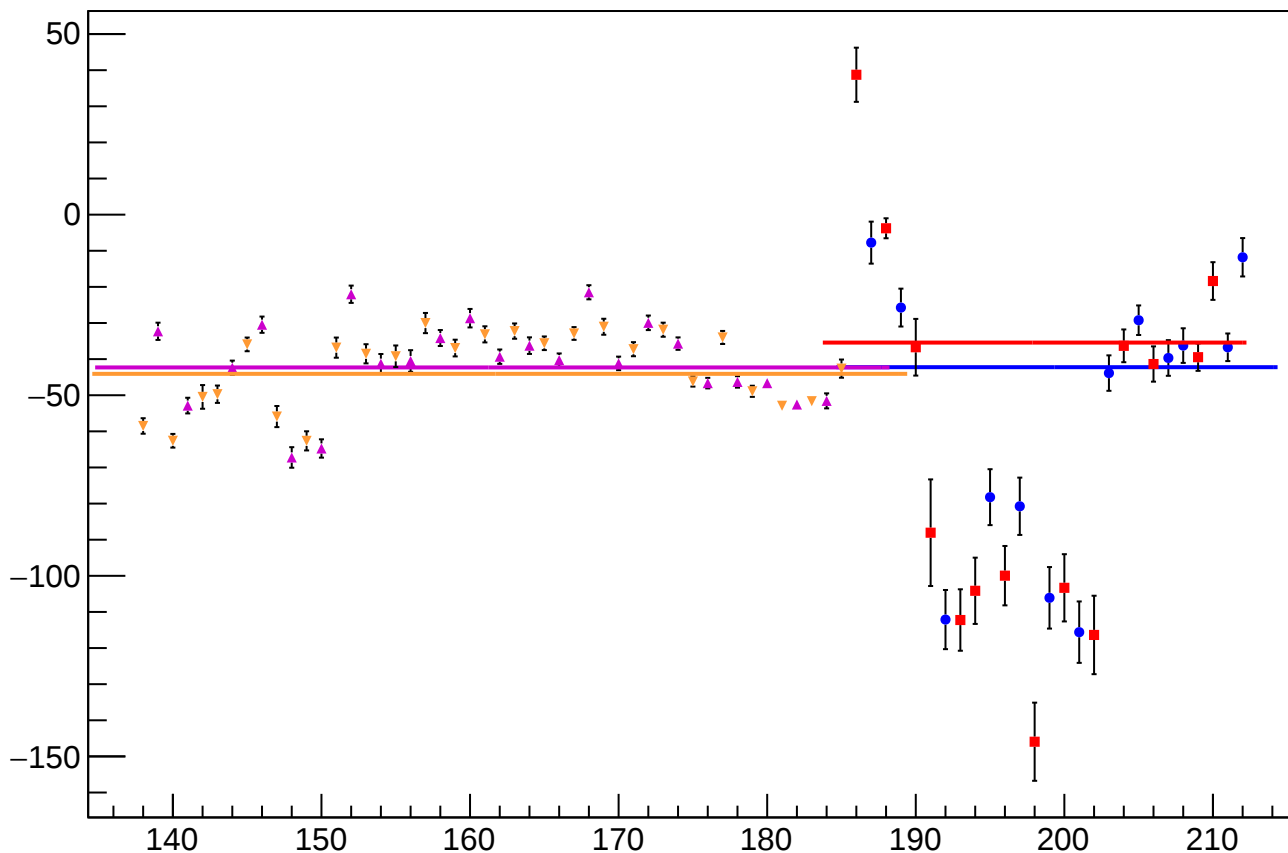
Right: 0.338 $\pm$ 0.004 χ^2 /NDF: 2744.0/62

In: 0.441 $\pm$ 0.002 χ^2 /NDF:2161.0/52

Out: 0.444 $\pm$ 0.002 χ^2 /NDF:2718.6/57

All: 0.442 $\pm$ 0.002 χ^2 /NDF: 4880.4/110

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected

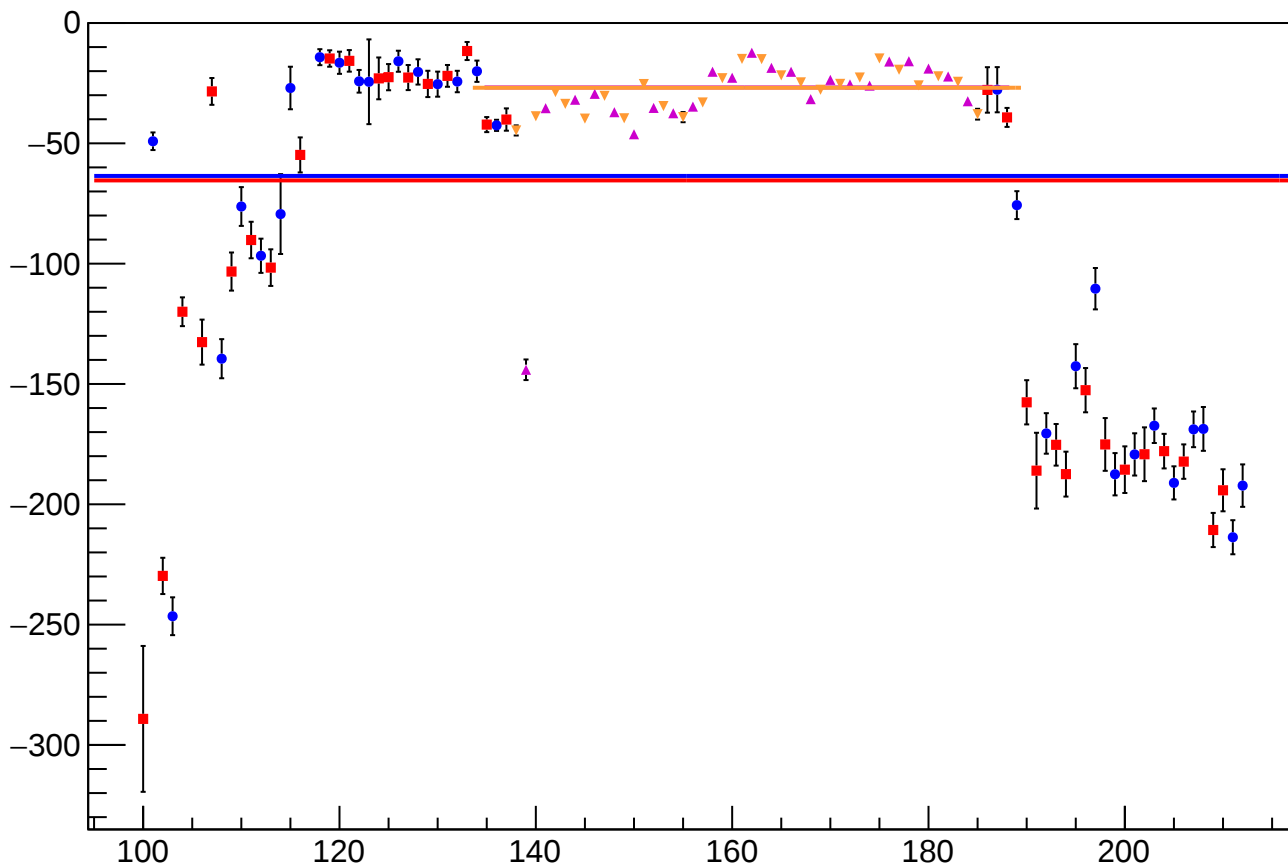


Right In: -42.232 ± 1.524 $\chi^2/\text{NDF}: 340.6/12$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: -35.422 ± 1.515 $\chi^2/\text{NDF}: 667.2/13$
 Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$
 Right: -38.809 ± 1.075 $\chi^2/\text{NDF}: 1017.8/26$
 In: -42.299 ± 0.386 $\chi^2/\text{NDF}: 981.2/35$
 Out: -43.543 ± 0.376 $\chi^2/\text{NDF}: 1330.4/38$

All: -42.937 ± 0.270 $\chi^2/\text{NDF}: 2316.9/74$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -63.547 $\pm$ 1.017 χ^2 /NDF: 3790.6/29

Left Out: -26.902 $\pm$ 0.316 χ^2 /NDF: 631.0/24

Right Out: -65.407 $\pm$ 1.050 χ^2 /NDF: 3847.5/32

Left In: -26.774 $\pm$ 0.326 χ^2 /NDF: 1394.5/22

Left: -26.840 $\pm$ 0.227 χ^2 /NDF: 2025.6/47

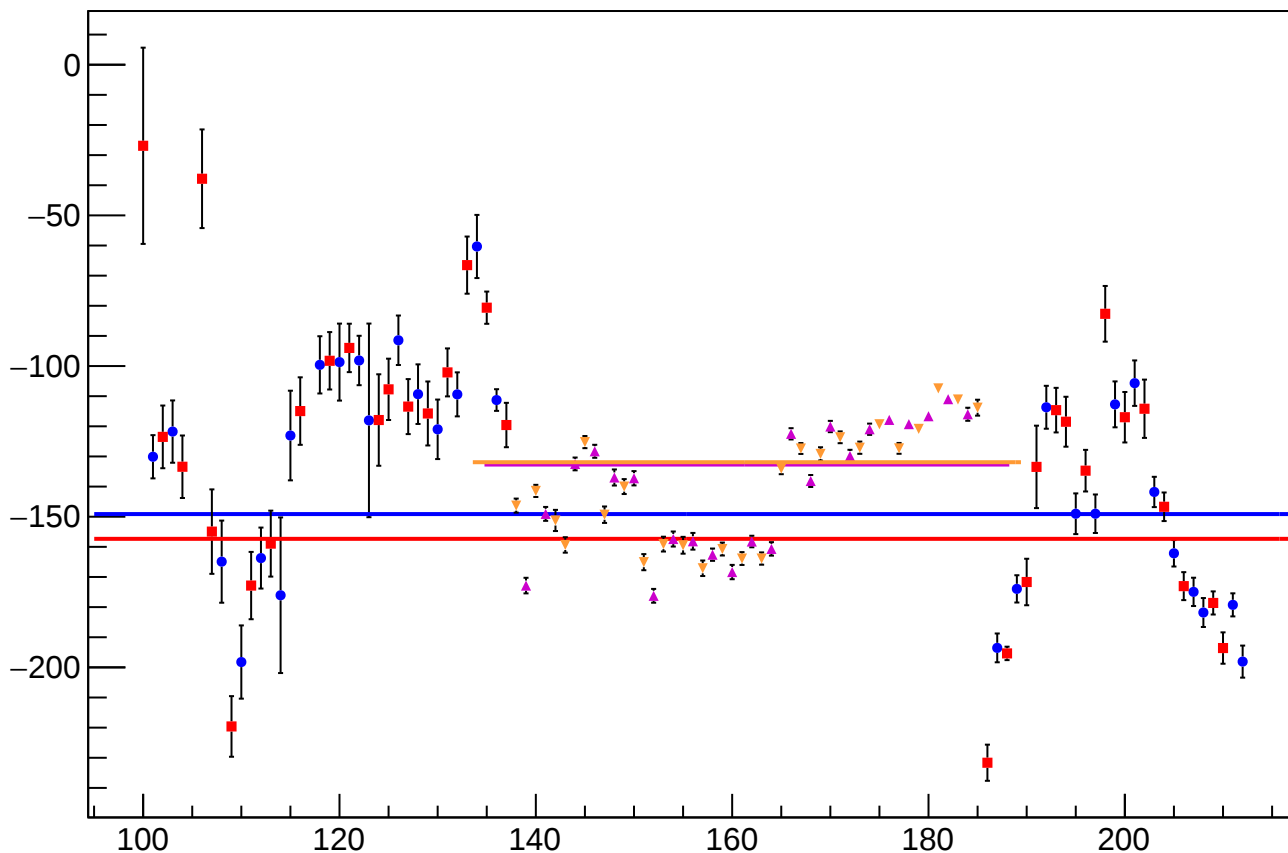
Right: -64.448 $\pm$ 0.730 χ^2 /NDF: 7639.7/62

In: -30.206 $\pm$ 0.311 χ^2 /NDF: 6370.4/52

Out: -30.107 $\pm$ 0.303 χ^2 /NDF: 5712.5/57

All: -30.155 $\pm$ 0.217 χ^2 /NDF: 12082.9/110

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -149.125 ± 1.189 χ^2/NDF : 837.4/29

Left Out: -131.912 ± 0.391 χ^2/NDF : 2439.3/24

Right Out: -157.342 ± 1.161 χ^2/NDF : 1402.5/32

Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47

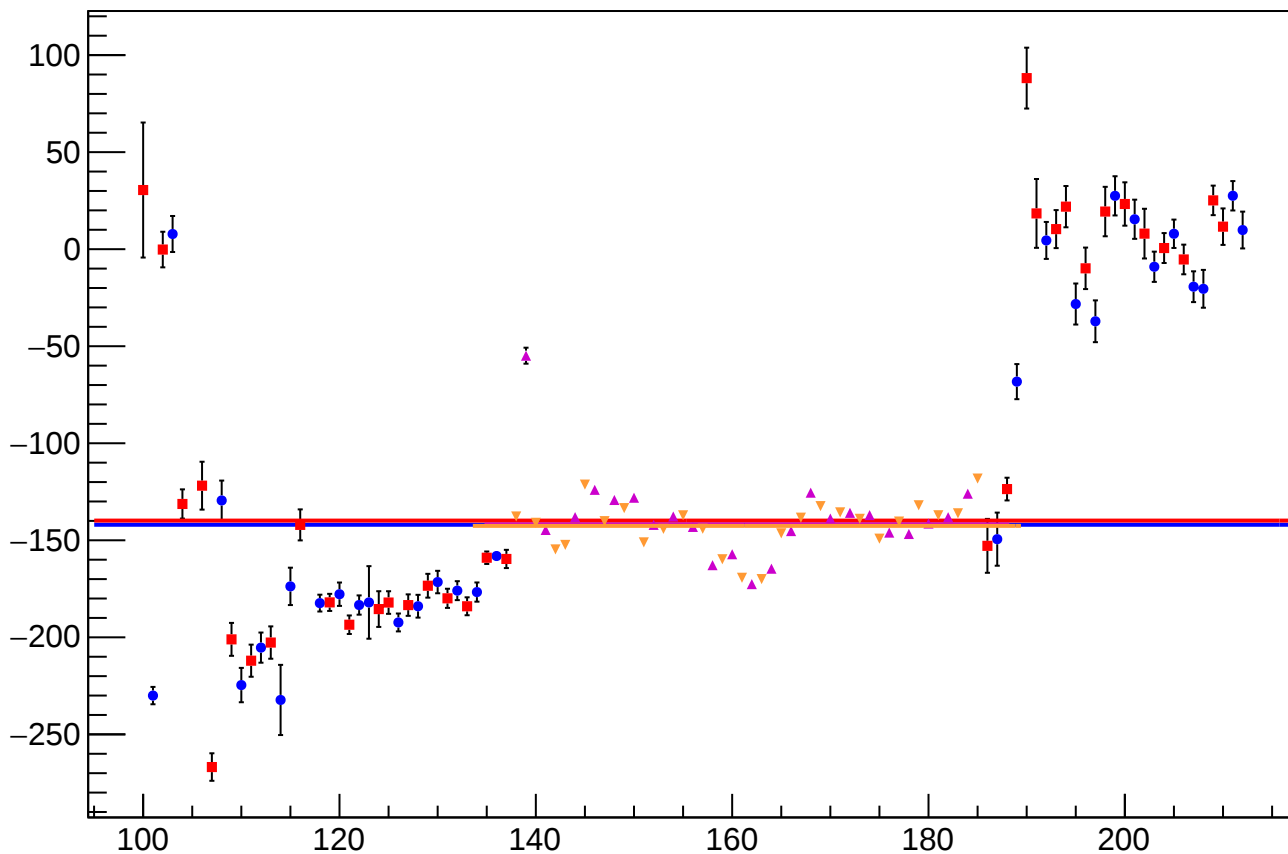
Right: -153.330 ± 0.831 χ^2/NDF : 2264.4/62

In: -134.357 ± 0.379 χ^2/NDF : 3489.4/52

Out: -134.507 ± 0.371 χ^2/NDF : 4272.5/57

All: -134.434 ± 0.265 χ^2/NDF : 7762.0/110

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -141.993 ± 1.141 χ^2/NDF : 4279.7/29

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -139.847 ± 1.200 χ^2/NDF : 4151.6/32

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

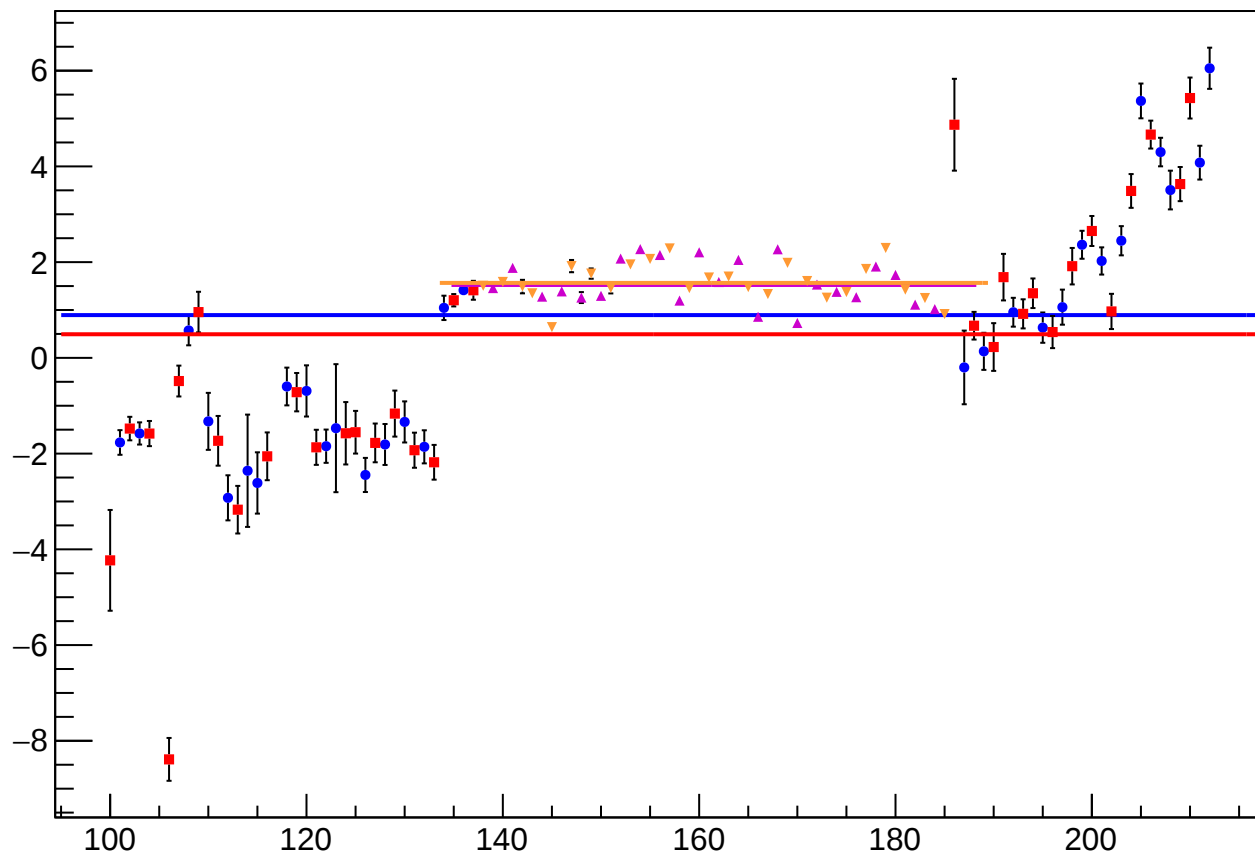
Right: -140.973 ± 0.827 χ^2/NDF : 8432.9/62

In: -141.869 ± 0.347 χ^2/NDF : 5823.9/52

Out: -142.346 ± 0.340 χ^2/NDF : 5304.0/57

All: -142.113 ± 0.243 χ^2/NDF : 11128.9/110

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.894 ± 0.055 χ^2/NDF : 1297.2/29

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: 0.493 ± 0.057 χ^2/NDF : 1511.9/32

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

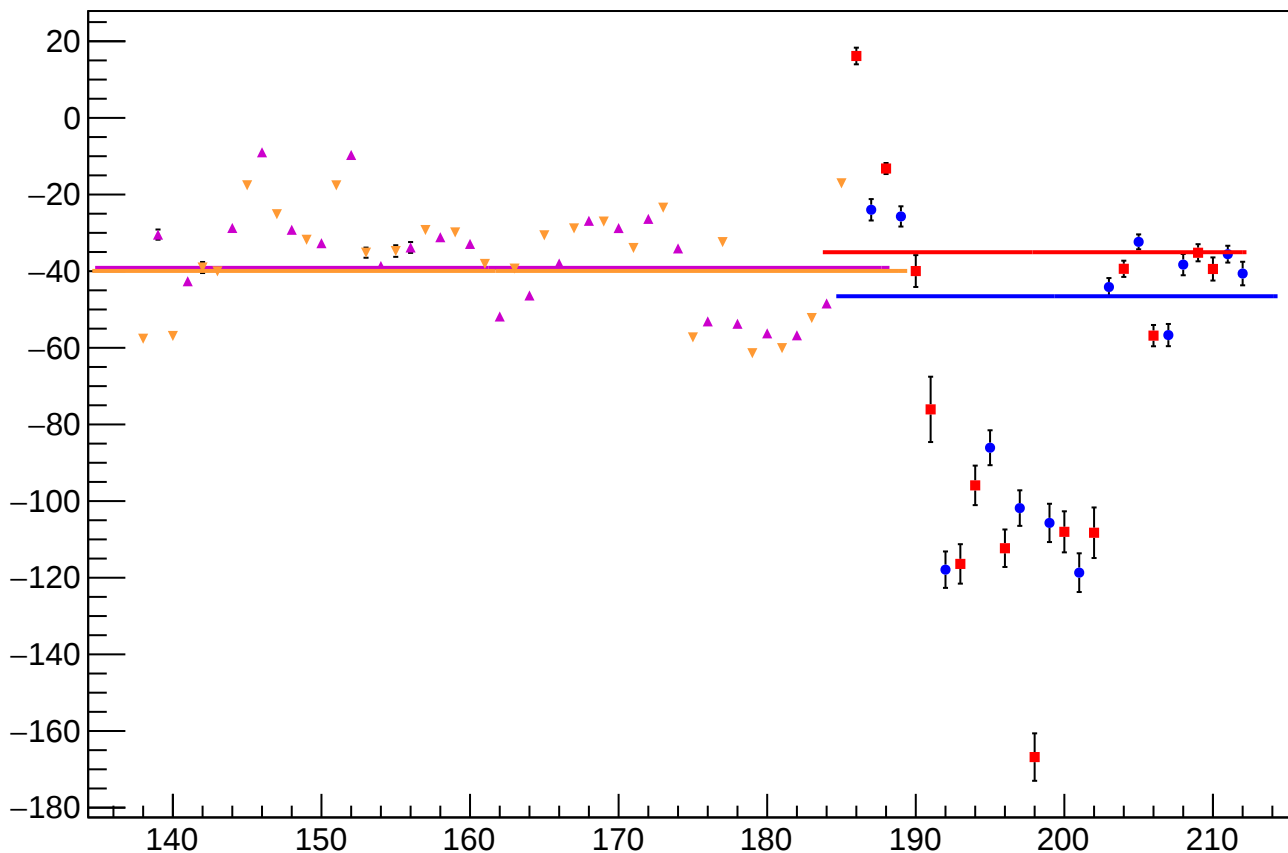
Right: 0.702 ± 0.040 χ^2/NDF : 2834.5/62

In: 1.471 ± 0.016 χ^2/NDF : 2156.1/52

Out: 1.487 ± 0.016 χ^2/NDF : 2380.0/57

All: 1.479 ± 0.011 χ^2/NDF : 4536.6/110

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -46.543 ± 0.817 $\chi^2/\text{NDF}: 1017.8/12$

Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$

Right Out: -35.054 ± 0.783 $\chi^2/\text{NDF}: 2277.9/13$

Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

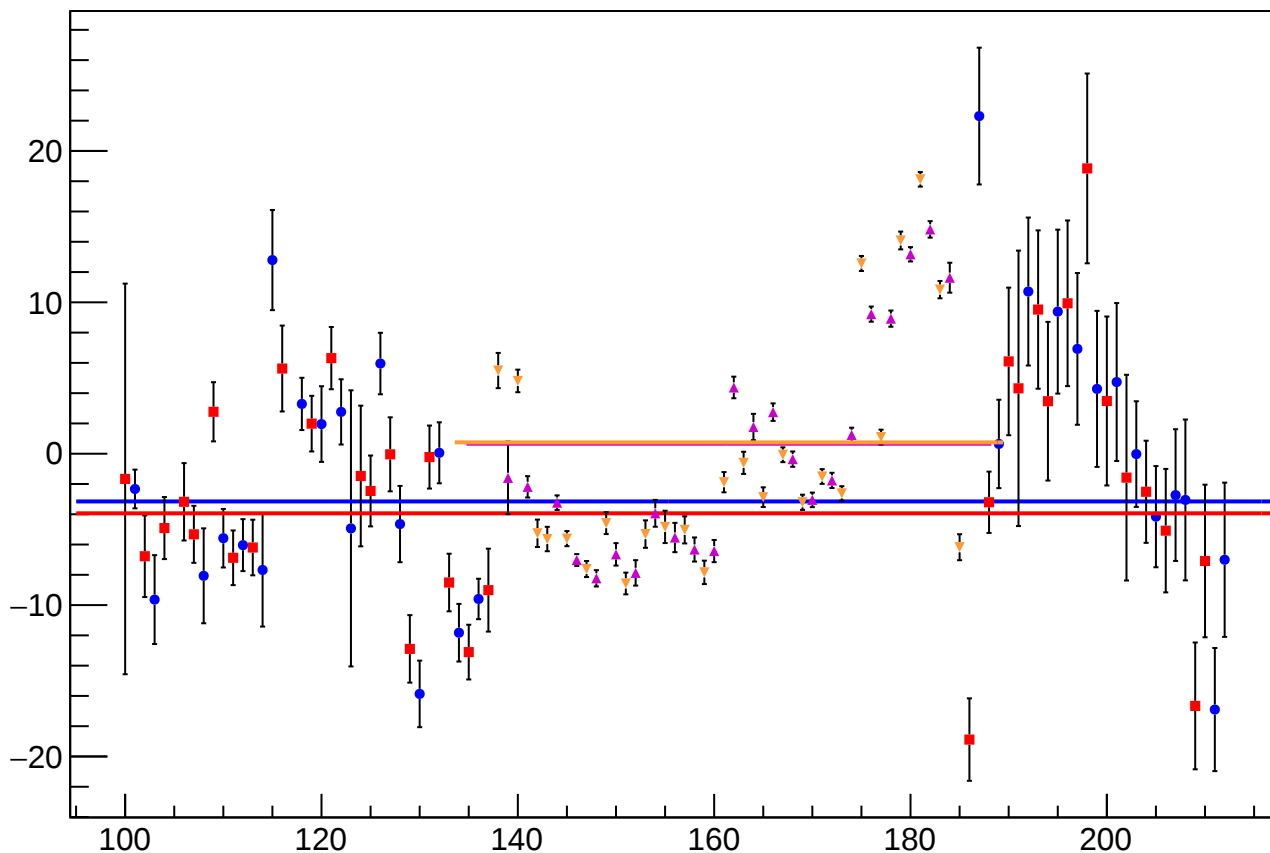
Right: -40.556 ± 0.565 $\chi^2/\text{NDF}: 3398.7/26$

In: -39.393 ± 0.152 $\chi^2/\text{NDF}: 9631.6/35$

Out: -39.755 ± 0.150 $\chi^2/\text{NDF}: 12121.8/38$

All: -39.576 ± 0.107 $\chi^2/\text{NDF}: 21756.3/74$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.153 ± 0.460 χ^2/NDF : 231.2/29

Left Out: 0.749 ± 0.124 χ^2/NDF : 3970.9/24

Right Out: -3.937 ± 0.459 χ^2/NDF : 197.4/32

Left In: 0.660 ± 0.124 χ^2/NDF : 3337.8/22

Left: 0.705 ± 0.088 χ^2/NDF : 7308.9/47

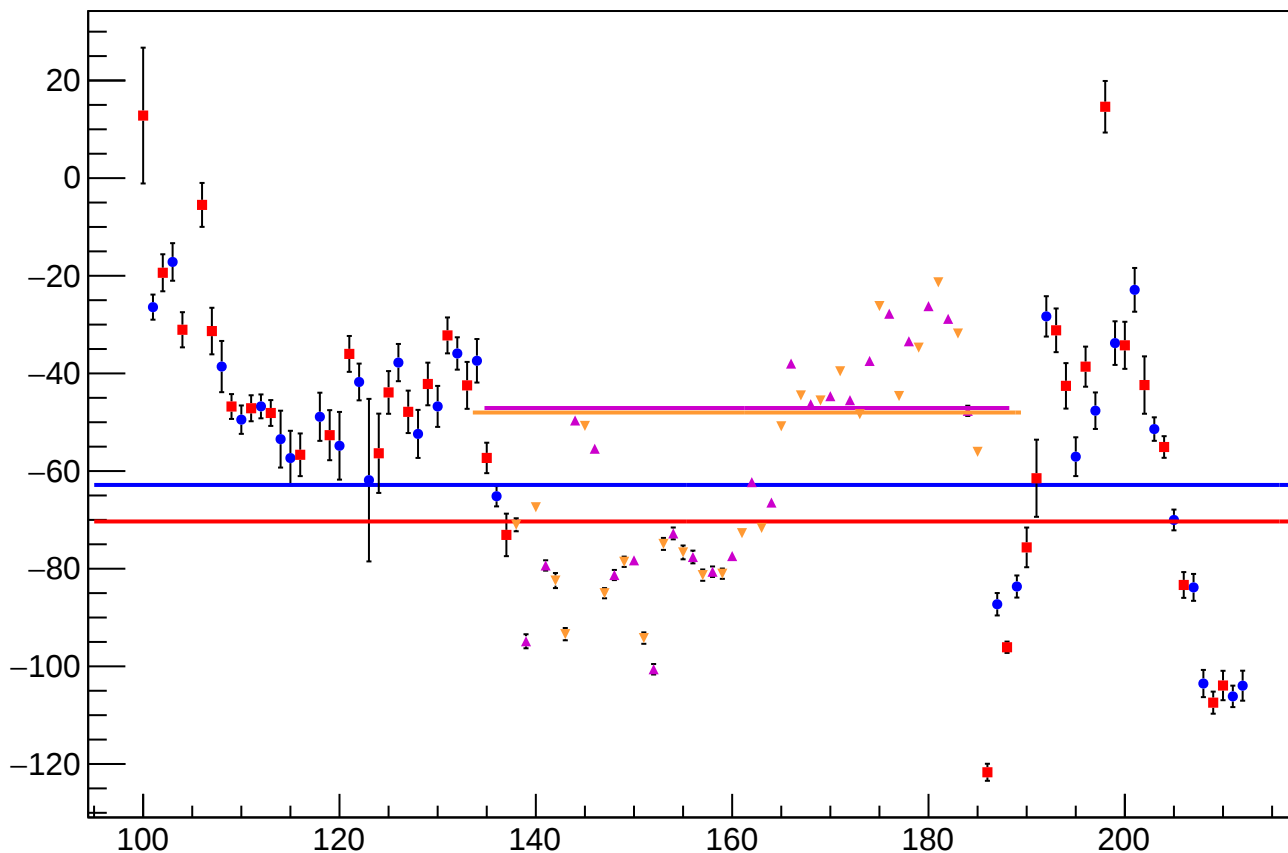
Right: -3.546 ± 0.325 χ^2/NDF : 430.0/62

In: 0.400 ± 0.120 χ^2/NDF : 3633.1/52

Out: 0.430 ± 0.120 χ^2/NDF : 4265.3/57

All: 0.415 ± 0.085 χ^2/NDF : 7898.4/110

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.843 ± 0.585 χ^2/NDF : 1914.1/29

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -70.325 ± 0.546 χ^2/NDF : 3554.8/32

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

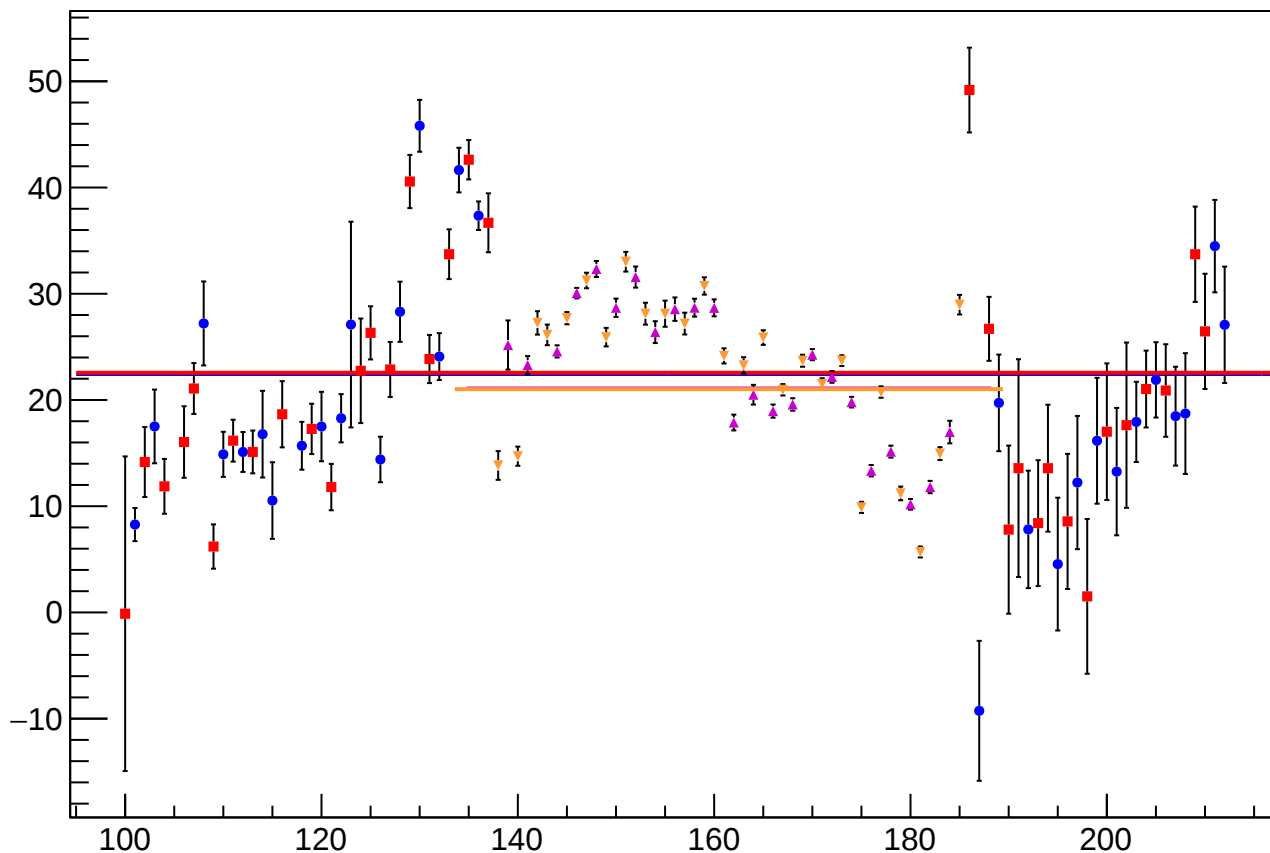
Right: -66.844 ± 0.399 χ^2/NDF : 5556.3/62

In: -48.123 ± 0.150 χ^2/NDF : 18107.1/52

Out: -49.667 ± 0.149 χ^2/NDF : 22052.8/57

All: -48.902 ± 0.106 χ^2/NDF : 40213.3/110

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.445 $\pm$ 0.519 χ^2 /NDF: 514.5/29

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.560 $\pm$ 0.528 χ^2 /NDF: 446.5/32

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

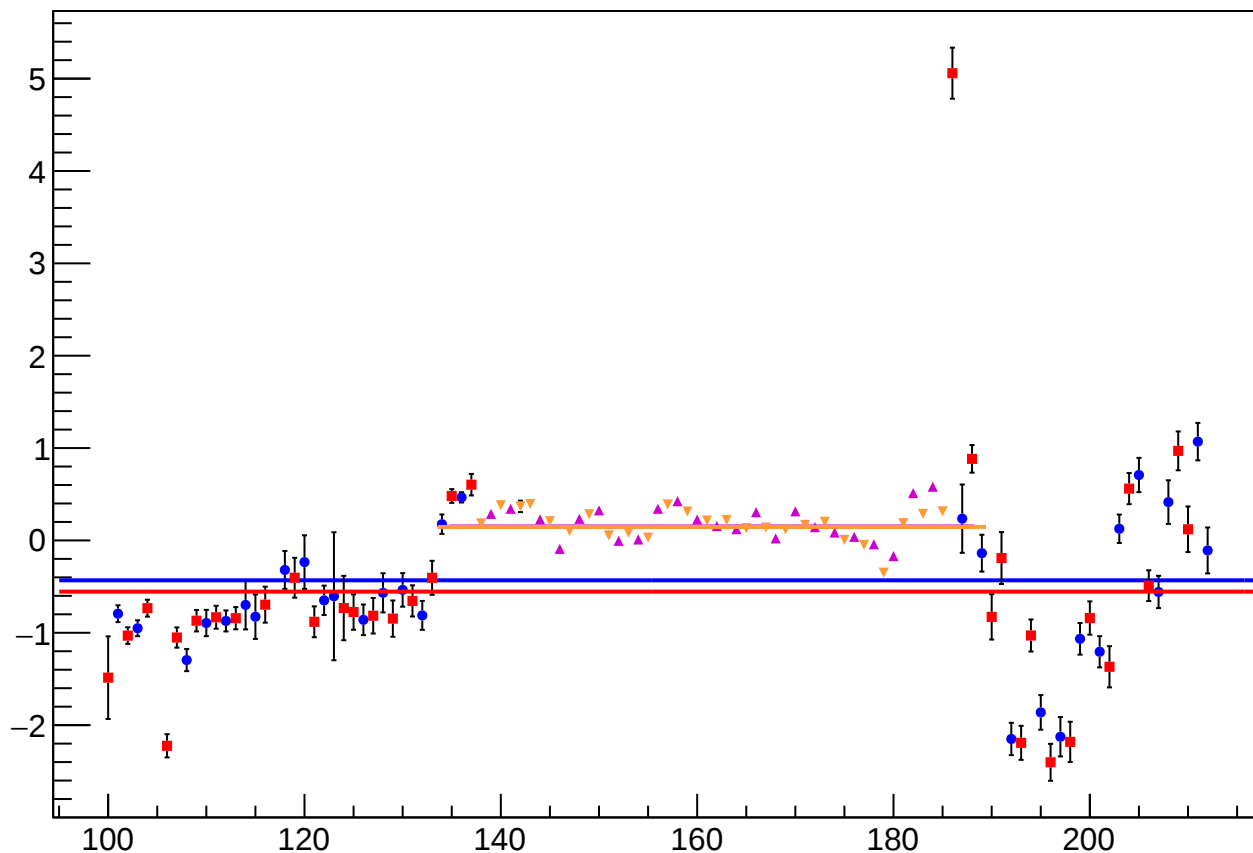
Right: 22.501 $\pm$ 0.370 χ^2 /NDF: 961.0/62

In: 21.171 $\pm$ 0.135 χ^2 /NDF:2694.2/52

Out: 21.120 $\pm$ 0.134 χ^2 /NDF:3253.7/57

All: 21.145 $\pm$ 0.095 χ^2 /NDF: 5948.0/110

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.432 ± 0.026 $\chi^2/\text{NDF}: 819.8/29$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.554 ± 0.026 $\chi^2/\text{NDF}: 1408.8/32$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

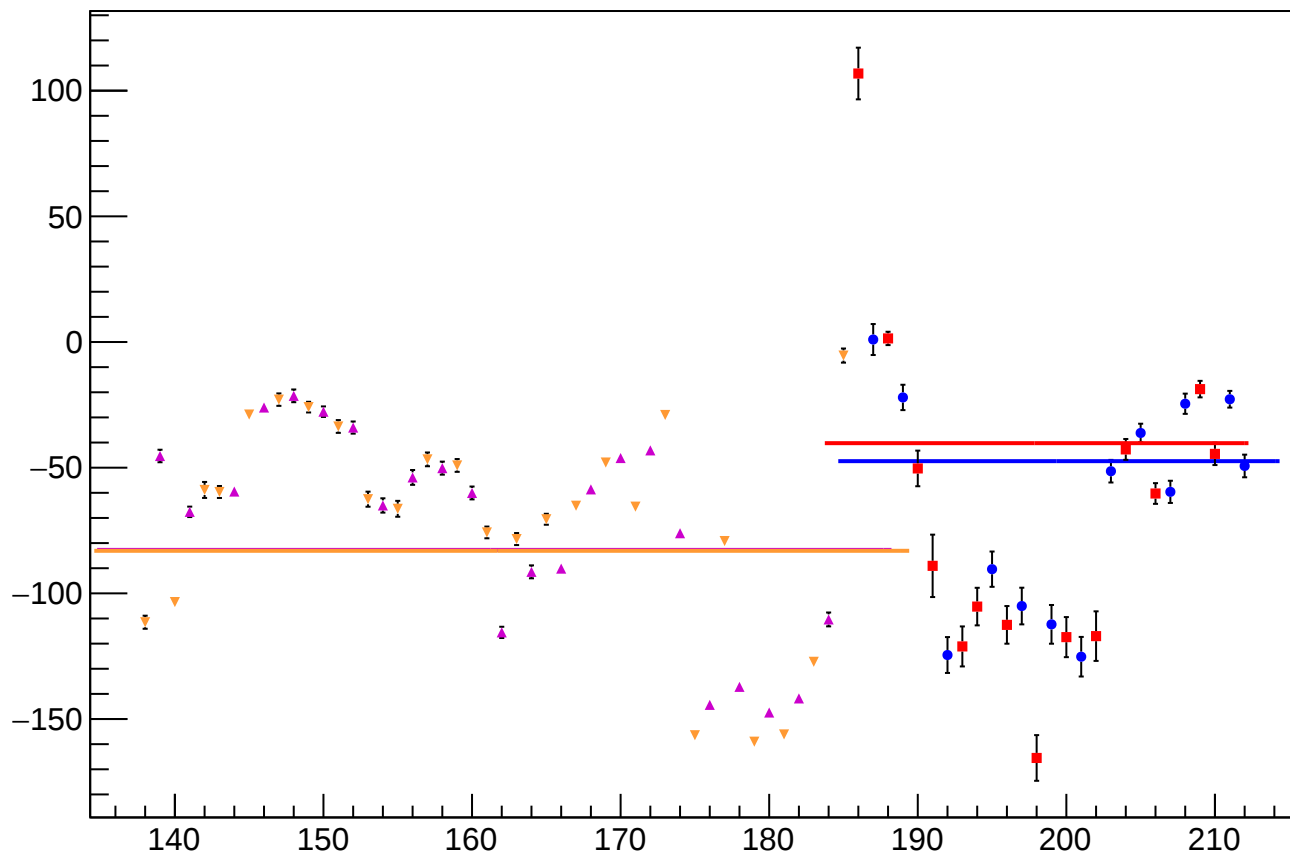
Right: -0.493 ± 0.019 $\chi^2/\text{NDF}: 2239.5/62$

In: 0.119 ± 0.006 $\chi^2/\text{NDF}: 2153.8/52$

Out: 0.108 ± 0.006 $\chi^2/\text{NDF}: 2691.4/57$

All: 0.113 ± 0.004 $\chi^2/\text{NDF}: 4846.7/110$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected

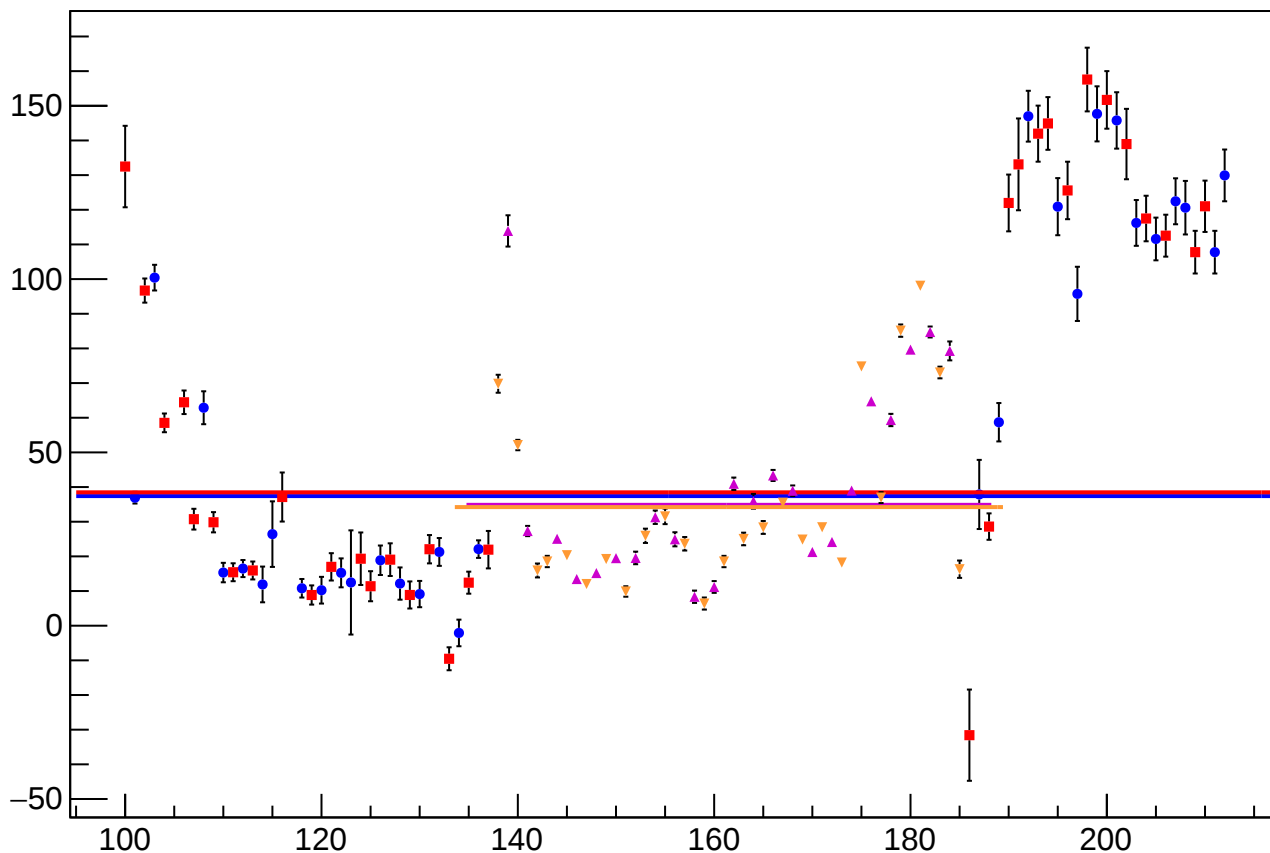


Right In: -47.400 ± 1.369 $\chi^2/\text{NDF}: 577.4/12$
 Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$
 Right Out: -40.244 ± 1.376 $\chi^2/\text{NDF}: 1152.9/13$
 Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$
 Right: -43.839 ± 0.971 $\chi^2/\text{NDF}: 1743.9/26$
 In: -79.738 ± 0.397 $\chi^2/\text{NDF}: 12027.8/35$
 Out: -79.633 ± 0.390 $\chi^2/\text{NDF}: 15861.2/38$

All: -79.685 ± 0.278 $\chi^2/\text{NDF}: 27889.0/74$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 37.396 $\pm$ 0.747 χ^2 /NDF: 2538.5/29

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF:6192.6/24

Right Out: 38.481 $\pm$ 0.746 χ^2 /NDF: 2851.7/32

Left In: 34.870 $\pm$ 0.329 χ^2 /NDF:4716.1/22

Left: 34.535 $\pm$ 0.230 χ^2 /NDF: 10910.7/47

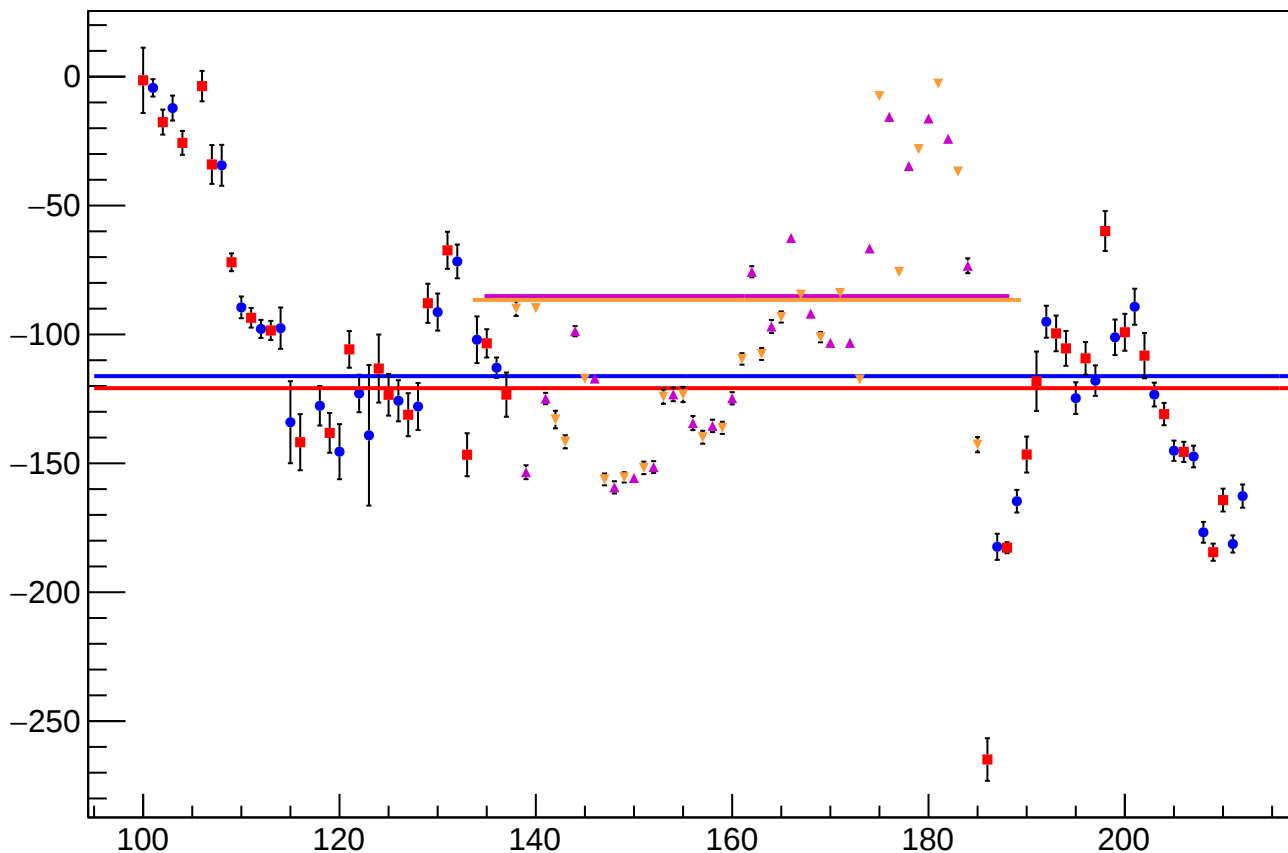
Right: 37.939 $\pm$ 0.528 χ^2 /NDF: 5391.3/62

In: 35.280 $\pm$ 0.301 χ^2 /NDF:7264.2/52

Out: 34.881 $\pm$ 0.294 χ^2 /NDF:9071.8/57

All: 35.076 $\pm$ 0.211 χ^2 /NDF: 16336.9/110

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -116.178 ± 0.962 χ^2/NDF : 2972.3/29

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -120.843 ± 0.920 χ^2/NDF : 3636.2/32

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

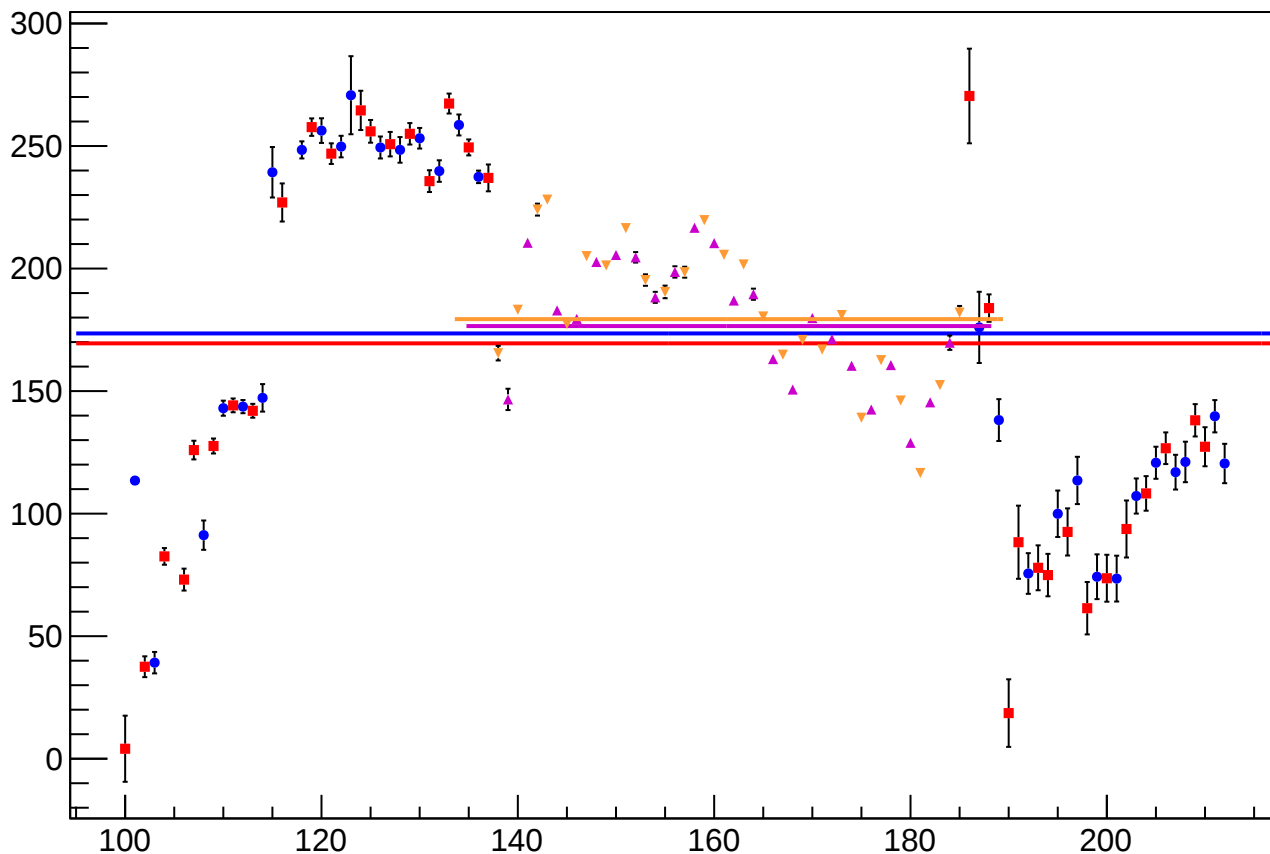
Right: -118.617 ± 0.665 χ^2/NDF : 6620.7/62

In: -90.001 ± 0.381 χ^2/NDF : 16690.8/52

Out: -92.238 ± 0.373 χ^2/NDF : 19310.3/57

All: -91.143 ± 0.267 χ^2/NDF : 36018.7/110

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 173.528 ± 0.853 $\chi^2/\text{NDF}: 6247.3/29$

Left Out: 179.359 ± 0.362 $\chi^2/\text{NDF}: 5982.2/24$

Right Out: 169.480 ± 0.858 $\chi^2/\text{NDF}: 7299.8/32$

Left In: 176.531 ± 0.371 $\chi^2/\text{NDF}: 4426.0/22$

Left: 177.980 ± 0.259 $\chi^2/\text{NDF}: 10438.0/47$

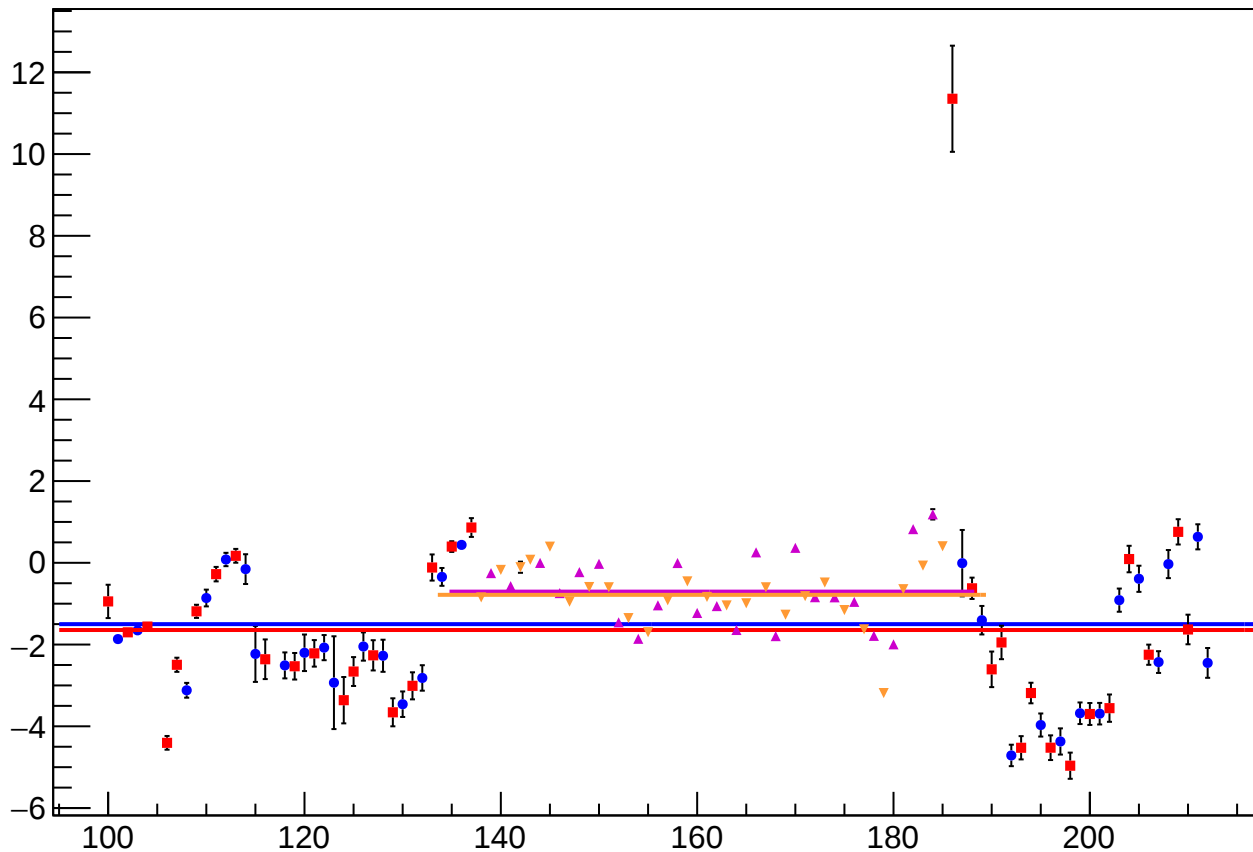
Right: 171.516 ± 0.605 $\chi^2/\text{NDF}: 13558.3/62$

In: 176.054 ± 0.340 $\chi^2/\text{NDF}: 10683.7/52$

Out: 177.867 ± 0.333 $\chi^2/\text{NDF}: 13394.6/57$

All: 176.978 ± 0.238 $\chi^2/\text{NDF}: 24092.8/110$

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.501 ± 0.042 $\chi^2/\text{NDF}: 1209.9/29$

Left Out: -0.783 ± 0.017 $\chi^2/\text{NDF}: 1771.6/24$

Right Out: -1.644 ± 0.040 $\chi^2/\text{NDF}: 1596.2/32$

Left In: -0.705 ± 0.017 $\chi^2/\text{NDF}: 2407.7/22$

Left: -0.745 ± 0.012 $\chi^2/\text{NDF}: 4190.3/47$

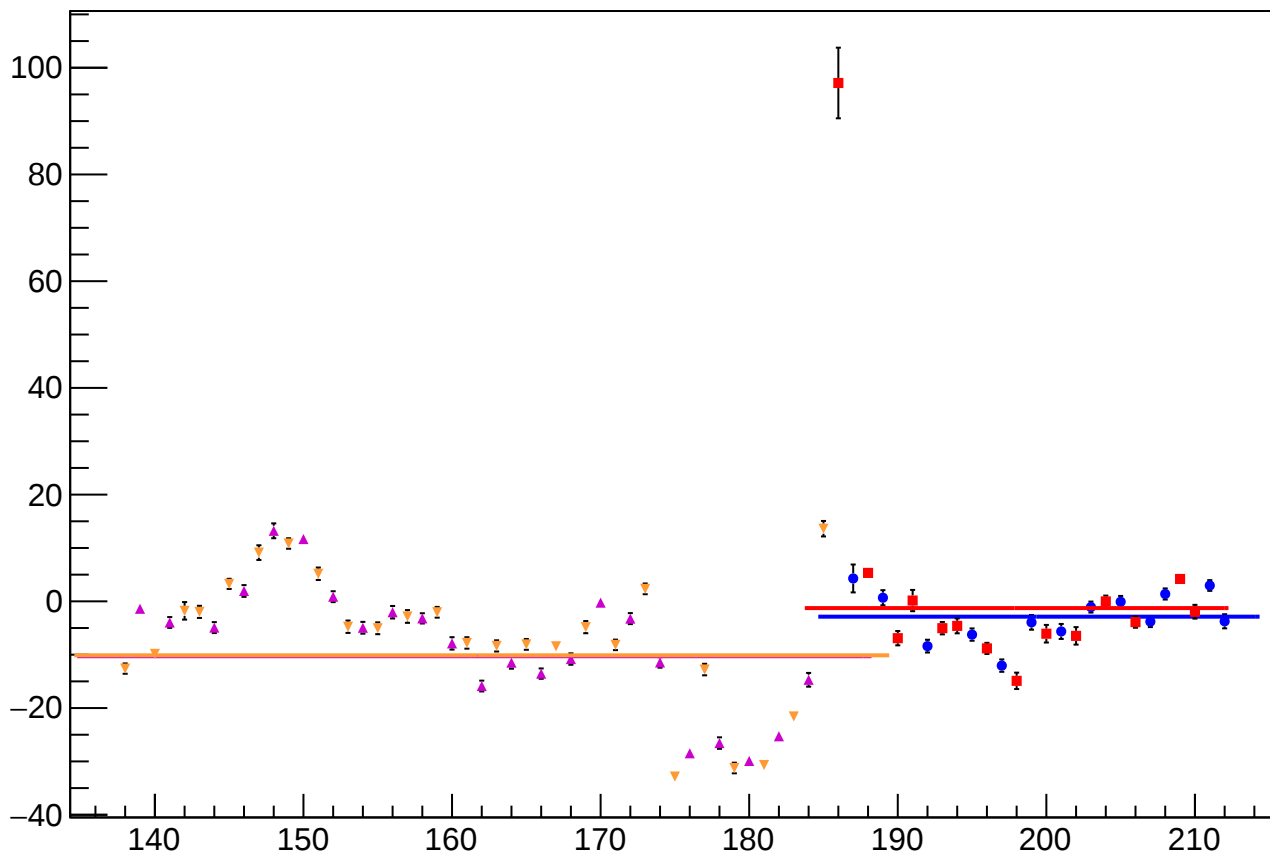
Right: -1.575 ± 0.029 $\chi^2/\text{NDF}: 2812.2/62$

In: -0.816 ± 0.016 $\chi^2/\text{NDF}: 3927.3/52$

Out: -0.909 ± 0.015 $\chi^2/\text{NDF}: 3758.8/57$

All: -0.863 ± 0.011 $\chi^2/\text{NDF}: 7703.9/110$

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.874 ± 0.333 $\chi^2/\text{NDF}: 171.3/12$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: -1.265 ± 0.312 $\chi^2/\text{NDF}: 558.1/13$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

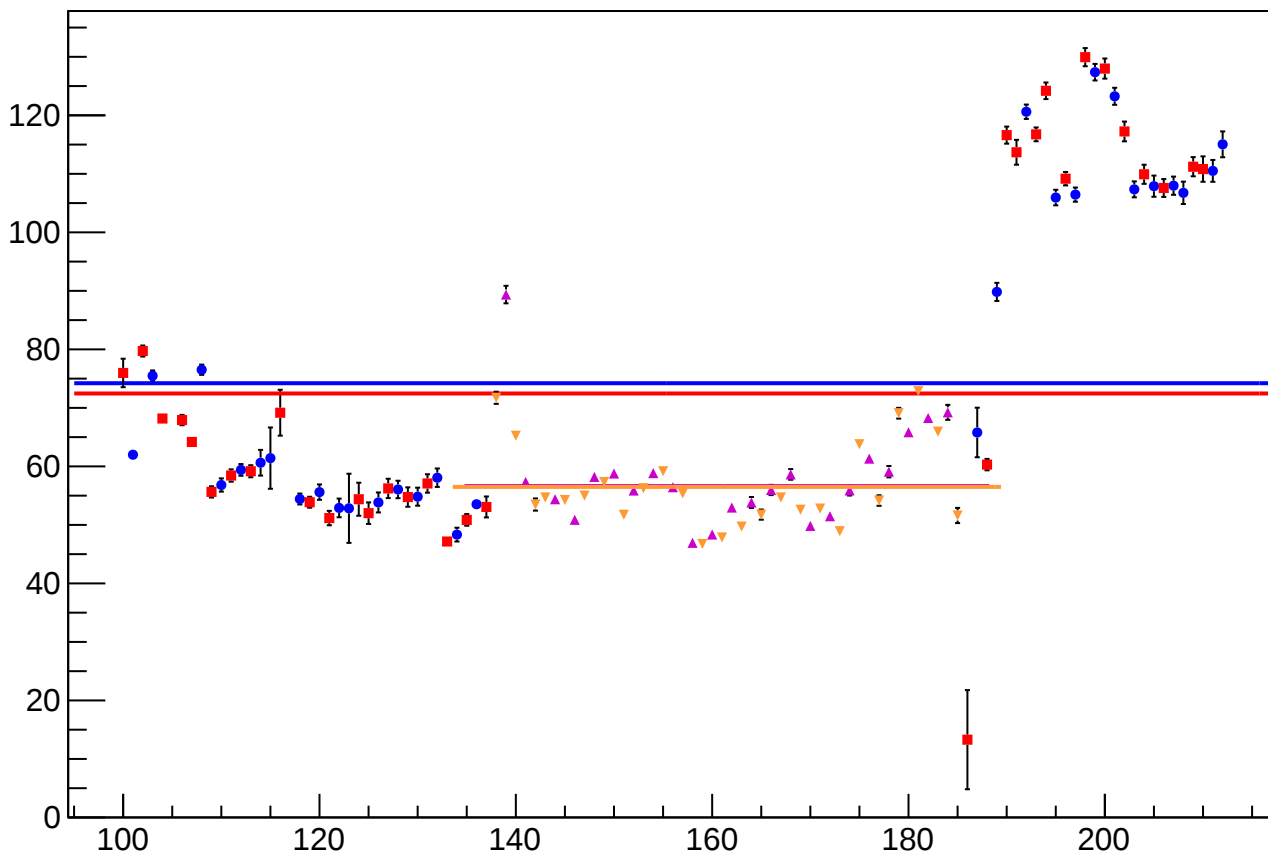
Right: -2.019 ± 0.228 $\chi^2/\text{NDF}: 741.8/26$

In: -8.242 ± 0.175 $\chi^2/\text{NDF}: 3982.3/35$

Out: -7.516 ± 0.169 $\chi^2/\text{NDF}: 5263.8/38$

All: -7.867 ± 0.122 $\chi^2/\text{NDF}: 9255.1/74$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 74.215+/-0.225 χ^2/NDF : 11356.4/29

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 72.460+/-0.211 χ^2/NDF : 14396.7/32

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

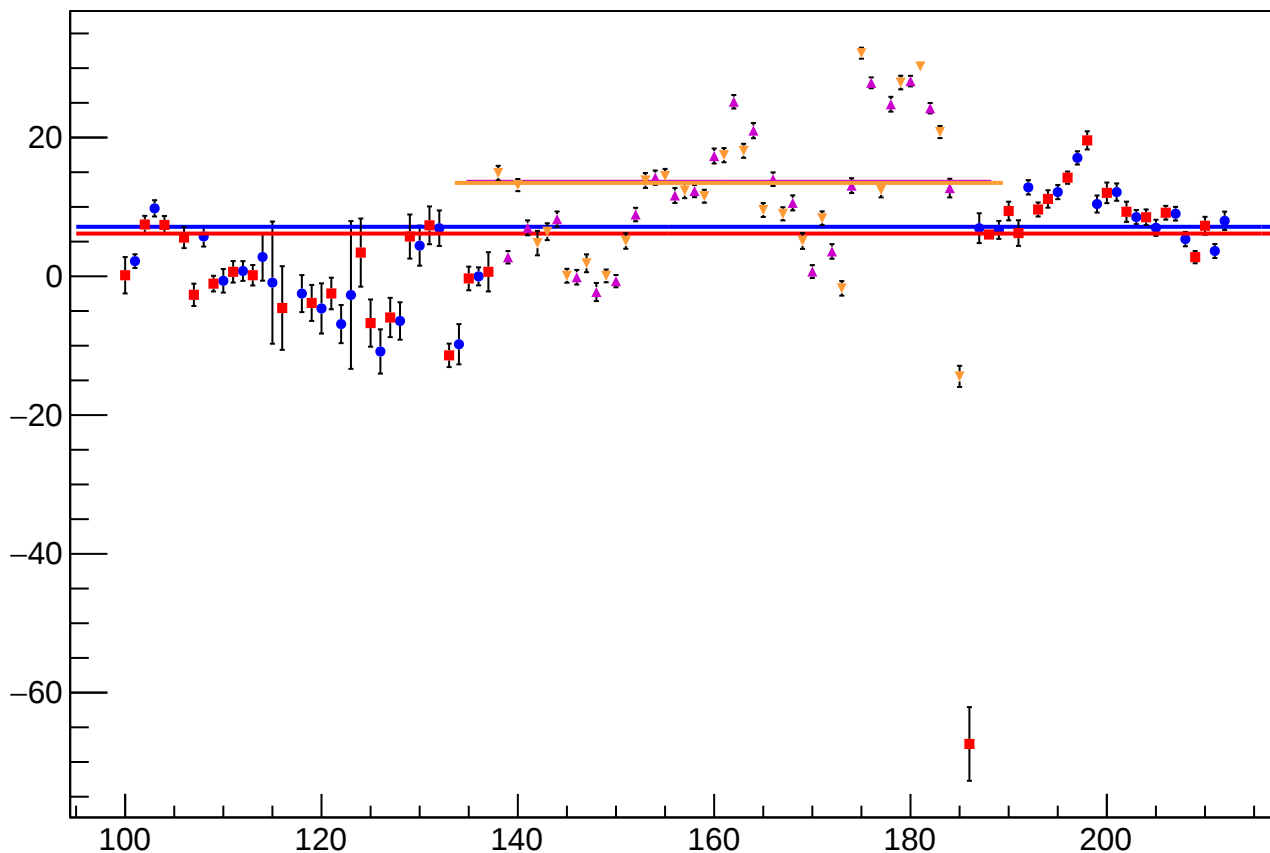
Right: 73.282+/-0.154 χ^2/NDF : 25785.5/62

In: 62.798+/-0.133 χ^2/NDF :16938.0/52

Out: 62.278+/-0.127 χ^2/NDF :20021.7/57

All: 62.526+/-0.092 χ^2/NDF : 36967.7/110

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.135 ± 0.258 χ^2/NDF : 453.0/29

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.159 ± 0.234 χ^2/NDF : 762.0/32

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

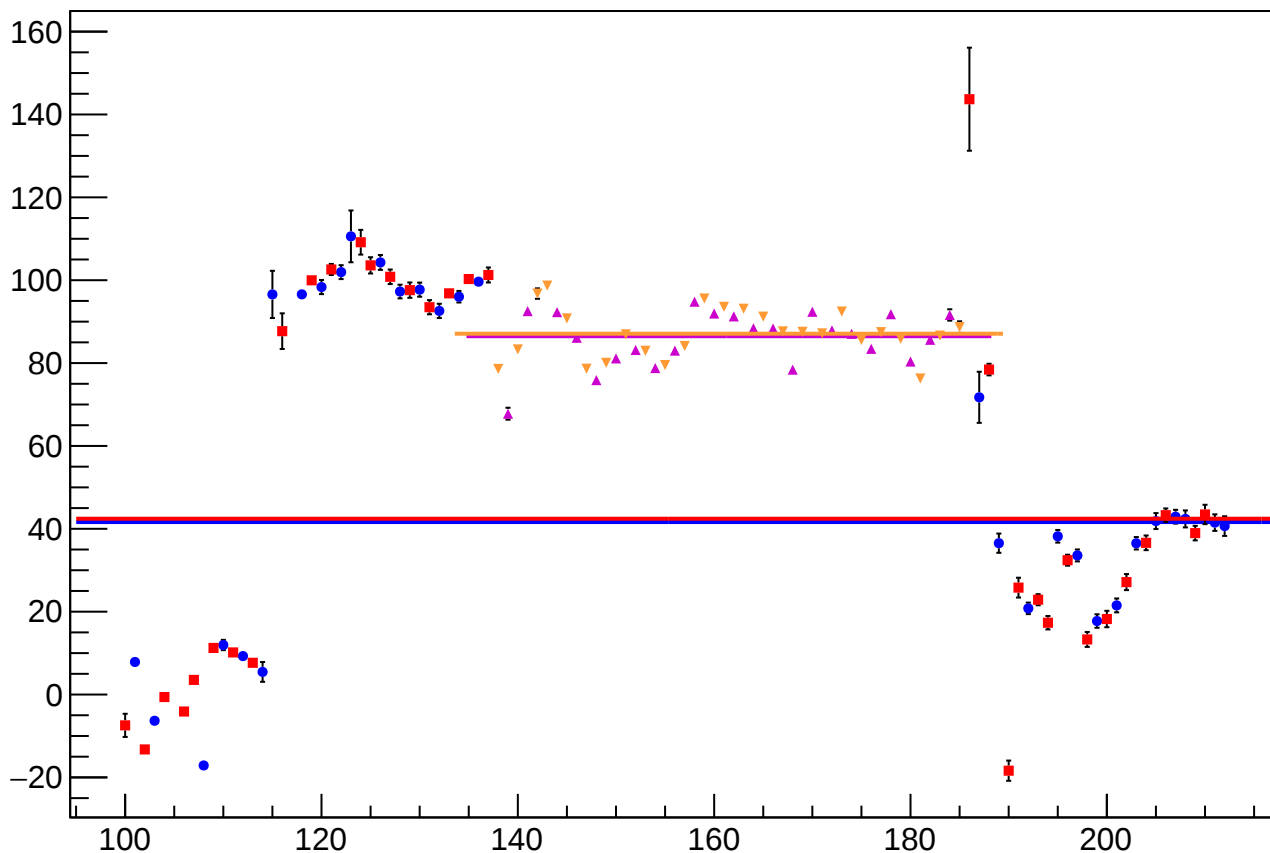
Right: 6.600 ± 0.173 χ^2/NDF : 1222.9/62

In: 11.118 ± 0.160 χ^2/NDF : 3156.5/52

Out: 10.359 ± 0.153 χ^2/NDF : 4056.5/57

All: 10.721 ± 0.111 χ^2/NDF : 7224.8/110

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.629 $\pm$ 0.259 χ^2 /NDF: 25471.4/29

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 42.436 $\pm$ 0.248 χ^2 /NDF: 30761.2/32

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

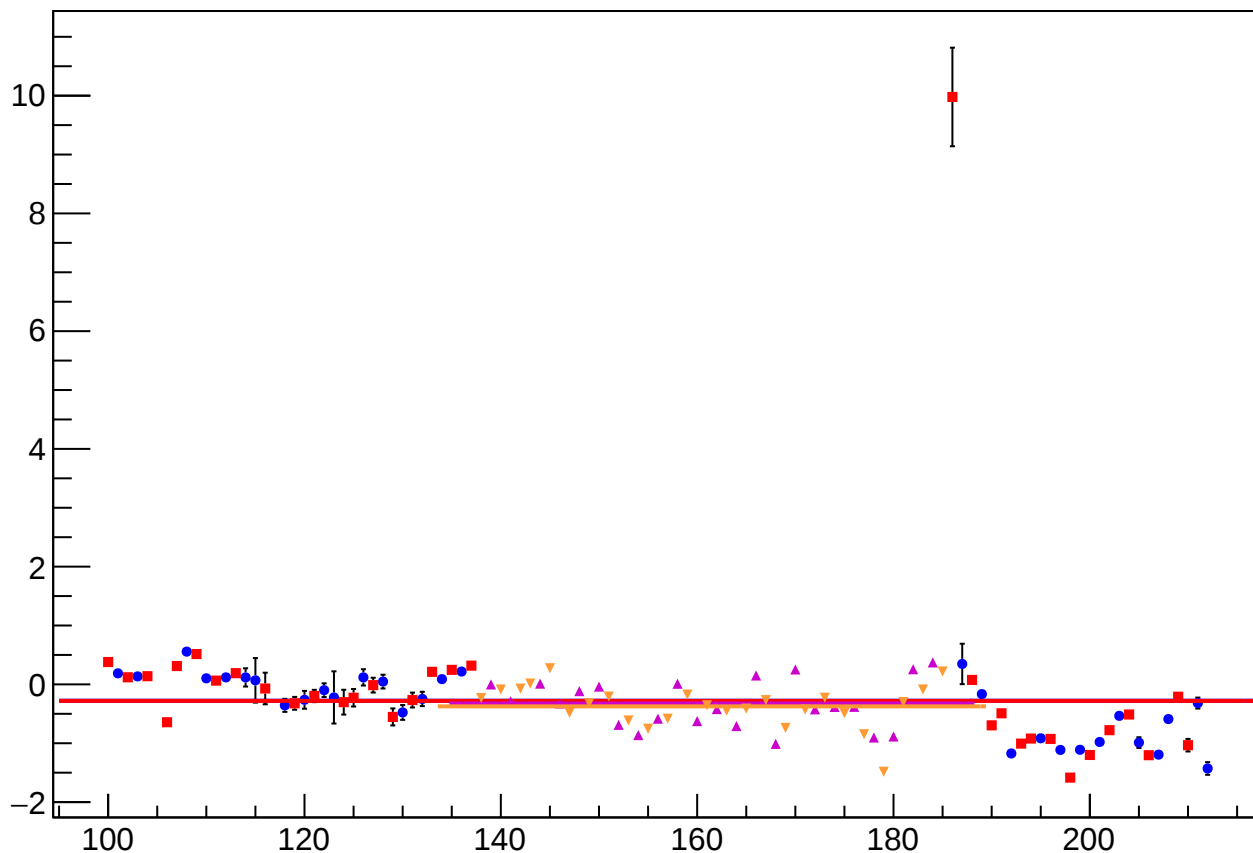
Right: 42.052 $\pm$ 0.179 χ^2 /NDF: 56237.7/62

In: 71.398 $\pm$ 0.150 χ^2 /NDF:46326.1/52

Out: 71.747 $\pm$ 0.145 χ^2 /NDF:53204.8/57

All: 71.579 $\pm$ 0.104 χ^2 /NDF: 99533.8/110

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.277 ± 0.011 χ^2/NDF : 3309.5/29

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.281 ± 0.010 χ^2/NDF : 3608.0/32

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

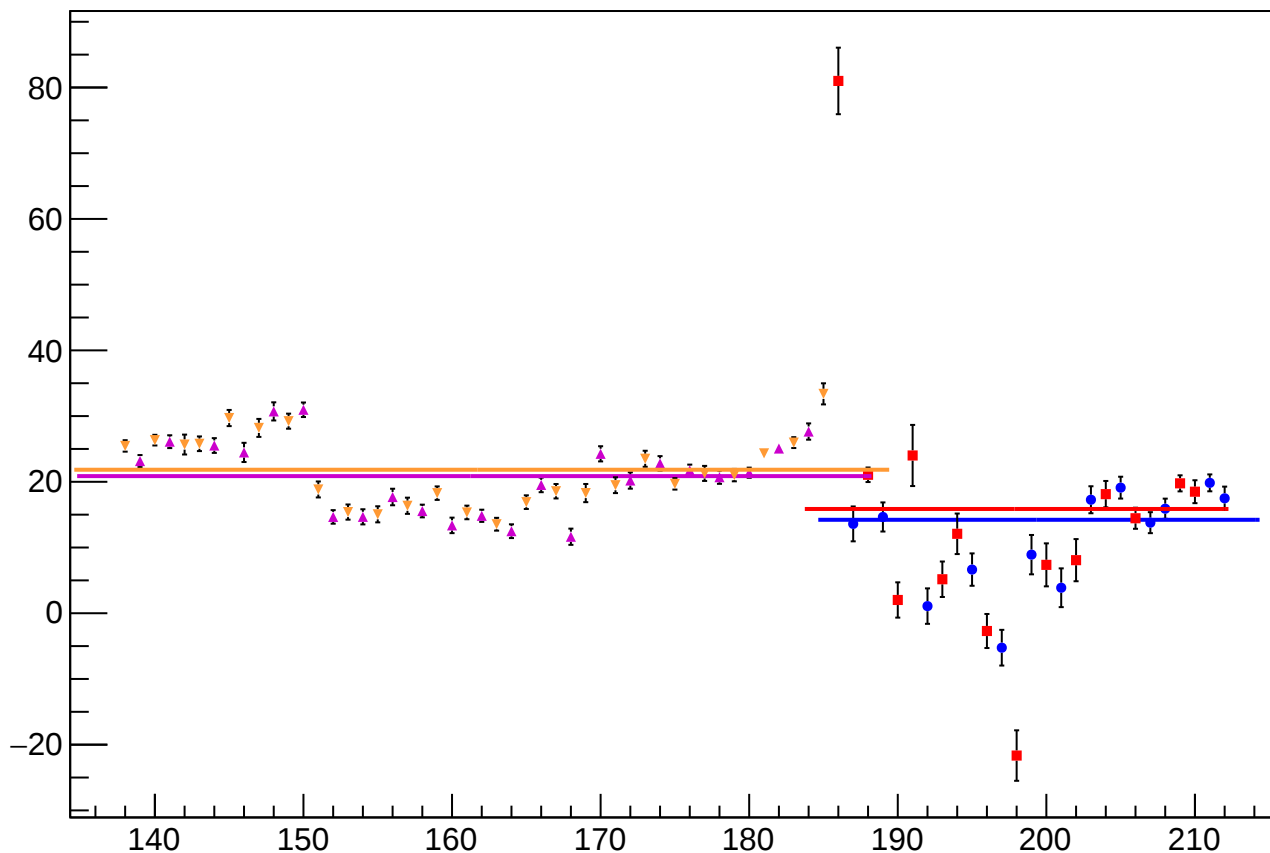
Right: -0.279 ± 0.007 χ^2/NDF : 6917.6/62

In: -0.307 ± 0.007 χ^2/NDF : 5606.2/52

Out: -0.337 ± 0.006 χ^2/NDF : 5328.0/57

All: -0.323 ± 0.005 χ^2/NDF : 10944.6/110

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.220 ± 0.547 $\chi^2/\text{NDF}: 134.7/12$

Left Out: 21.836 ± 0.210 $\chi^2/\text{NDF}: 524.3/24$

Right Out: 15.866 ± 0.548 $\chi^2/\text{NDF}: 408.5/13$

Left In: 20.866 ± 0.217 $\chi^2/\text{NDF}: 576.9/22$

Left: 21.366 ± 0.151 $\chi^2/\text{NDF}: 1111.6/47$

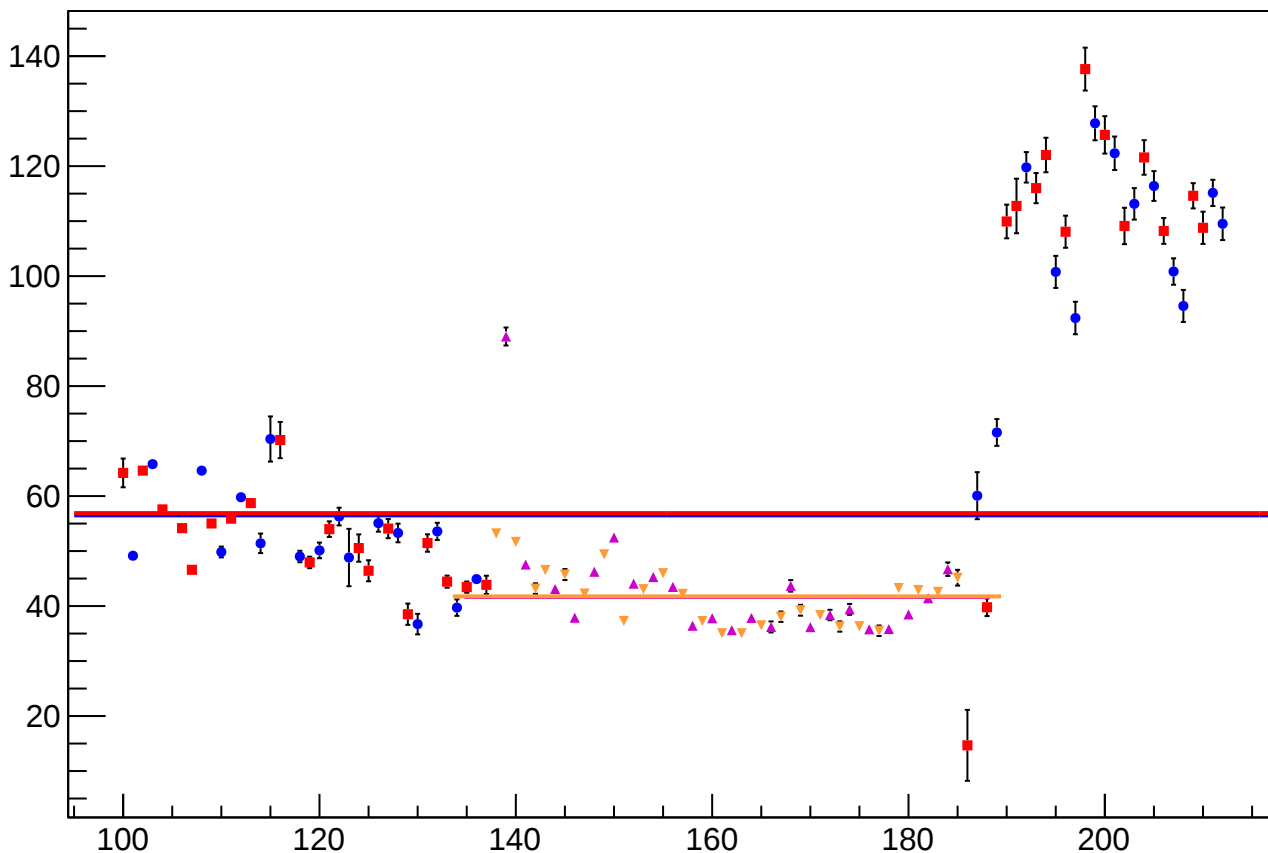
Right: 15.040 ± 0.387 $\chi^2/\text{NDF}: 547.7/26$

In: 19.963 ± 0.201 $\chi^2/\text{NDF}: 839.4/35$

Out: 21.074 ± 0.196 $\chi^2/\text{NDF}: 1036.2/38$

All: 20.534 ± 0.140 $\chi^2/\text{NDF}: 1891.2/74$

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 56.494 ± 0.204 $\chi^2/\text{NDF}: 5734.7/29$

Left Out: 41.757 ± 0.165 $\chi^2/\text{NDF}: 1015.7/24$

Right Out: 56.903 ± 0.217 $\chi^2/\text{NDF}: 5850.9/32$

Left In: 41.643 ± 0.174 $\chi^2/\text{NDF}: 1611.0/22$

Left: 41.703 ± 0.120 $\chi^2/\text{NDF}: 2626.9/47$

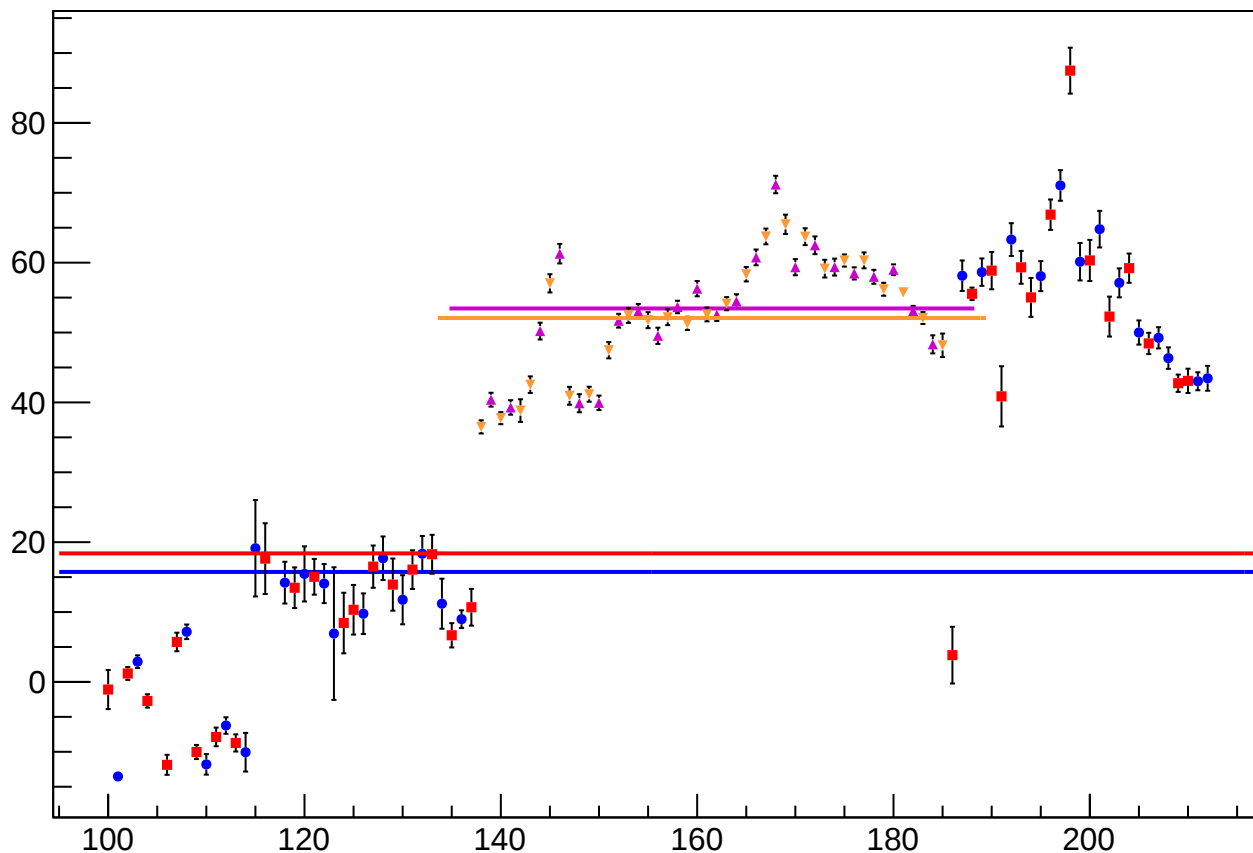
Right: 56.685 ± 0.149 $\chi^2/\text{NDF}: 11587.5/62$

In: 47.897 ± 0.132 $\chi^2/\text{NDF}: 10421.3/52$

Out: 47.312 ± 0.132 $\chi^2/\text{NDF}: 9943.6/57$

All: 47.603 ± 0.093 $\chi^2/\text{NDF}: 20374.8/110$

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.741+/-0.298 χ^2/NDF : 8591.5/29

Left Out: 52.076+/-0.210 χ^2/NDF :1450.9/24

Right Out: 18.395+/-0.301 χ^2/NDF : 8282.0/32

Left In: 53.447+/-0.215 χ^2/NDF :1169.0/22

Left: 52.744+/-0.150 χ^2/NDF : 2640.6/47

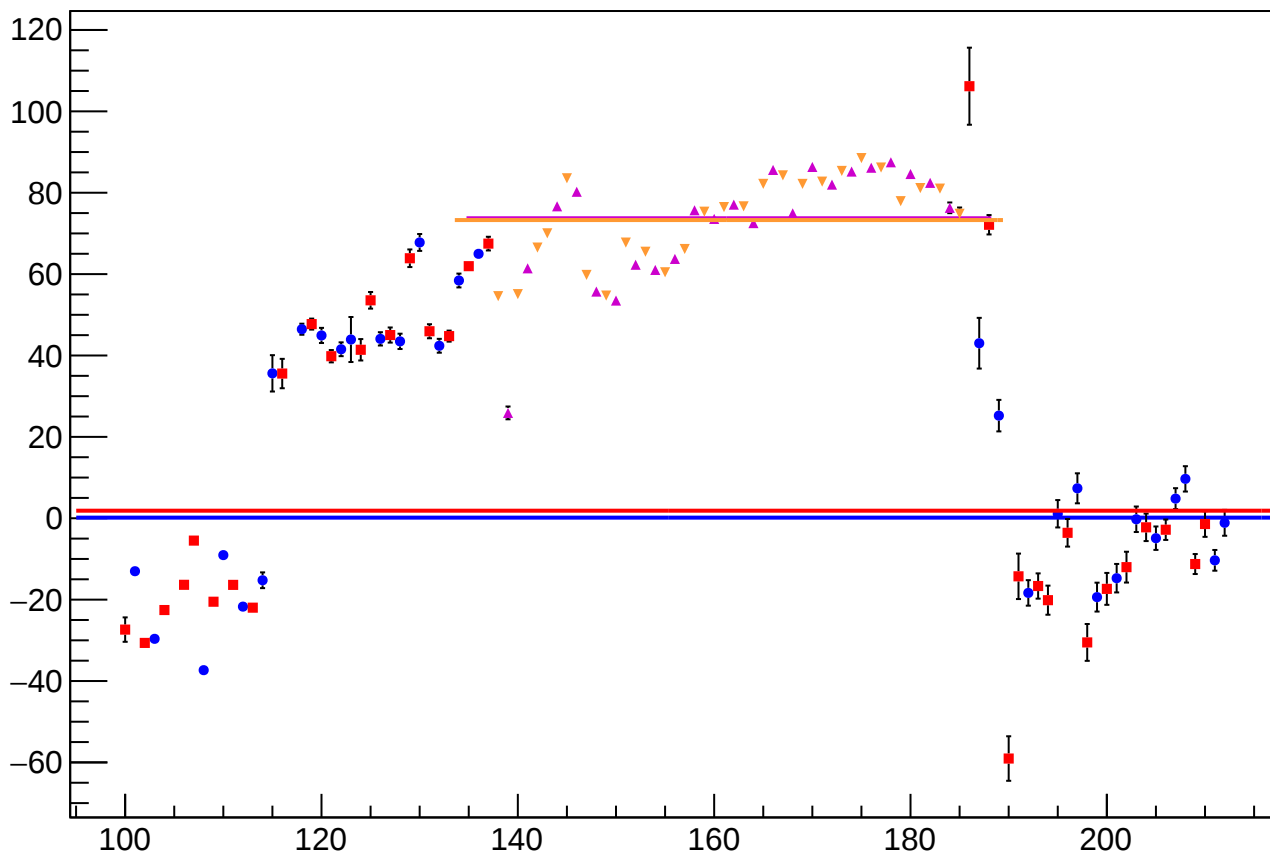
Right: 17.057+/-0.212 χ^2/NDF : 16912.7/62

In: 40.538+/-0.175 χ^2/NDF :20255.8/52

Out: 41.053+/-0.172 χ^2/NDF :18151.0/57

All: 40.799+/-0.123 χ^2/NDF : 38411.1/110

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.155 ± 0.239 $\chi^2/\text{NDF}: 18429.5/29$

Left Out: 73.284 ± 0.187 $\chi^2/\text{NDF}: 3144.2/24$

Right Out: 1.860 ± 0.256 $\chi^2/\text{NDF}: 16735.3/32$

Left In: 73.730 ± 0.194 $\chi^2/\text{NDF}: 3775.8/22$

Left: 73.498 ± 0.135 $\chi^2/\text{NDF}: 6922.7/47$

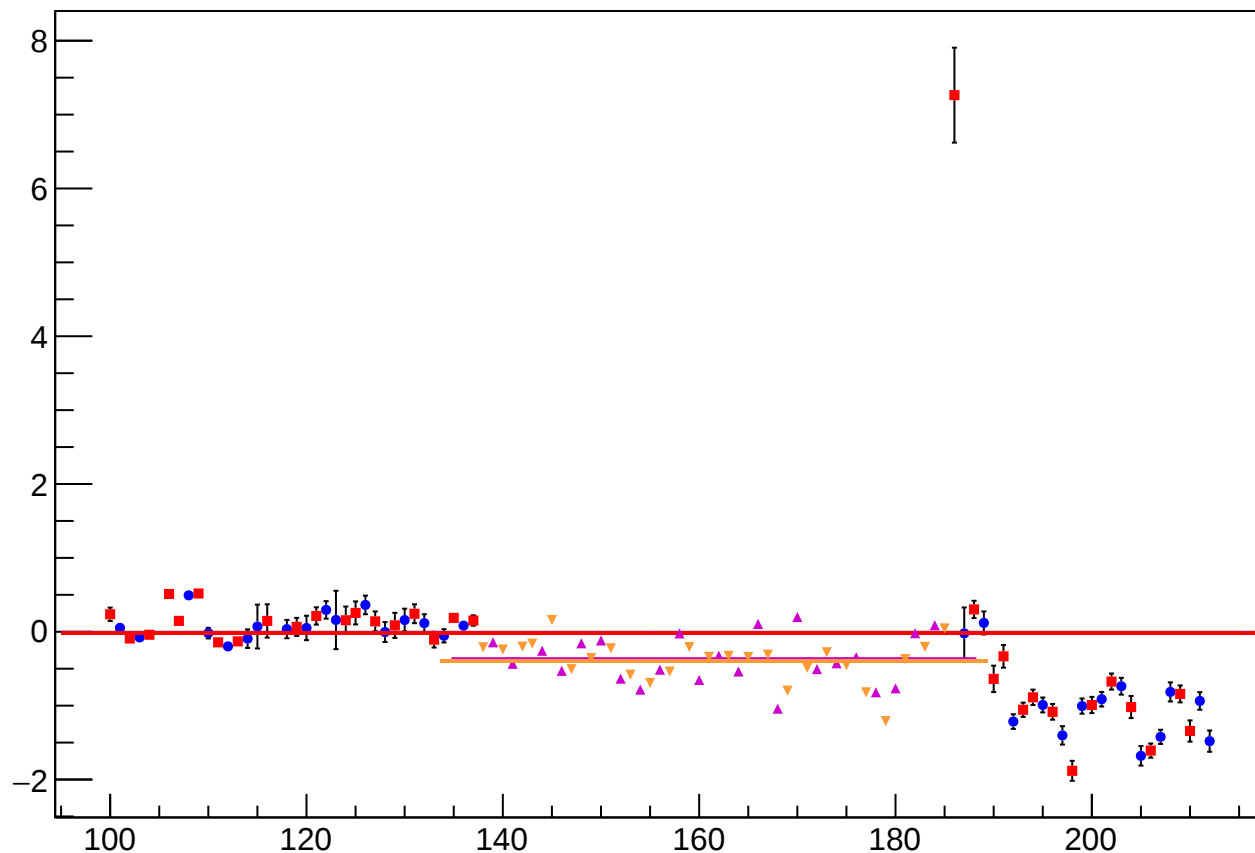
Right: 0.948 ± 0.175 $\chi^2/\text{NDF}: 35188.5/62$

In: 44.399 ± 0.151 $\chi^2/\text{NDF}: 79347.4/52$

Out: 48.449 ± 0.151 $\chi^2/\text{NDF}: 70687.7/57$

All: 46.421 ± 0.107 $\chi^2/\text{NDF}: 150395.8/110$

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.014 ± 0.010 $\chi^2/\text{NDF}: 1673.3/29$

Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$

Right Out: -0.017 ± 0.010 $\chi^2/\text{NDF}: 1682.2/32$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

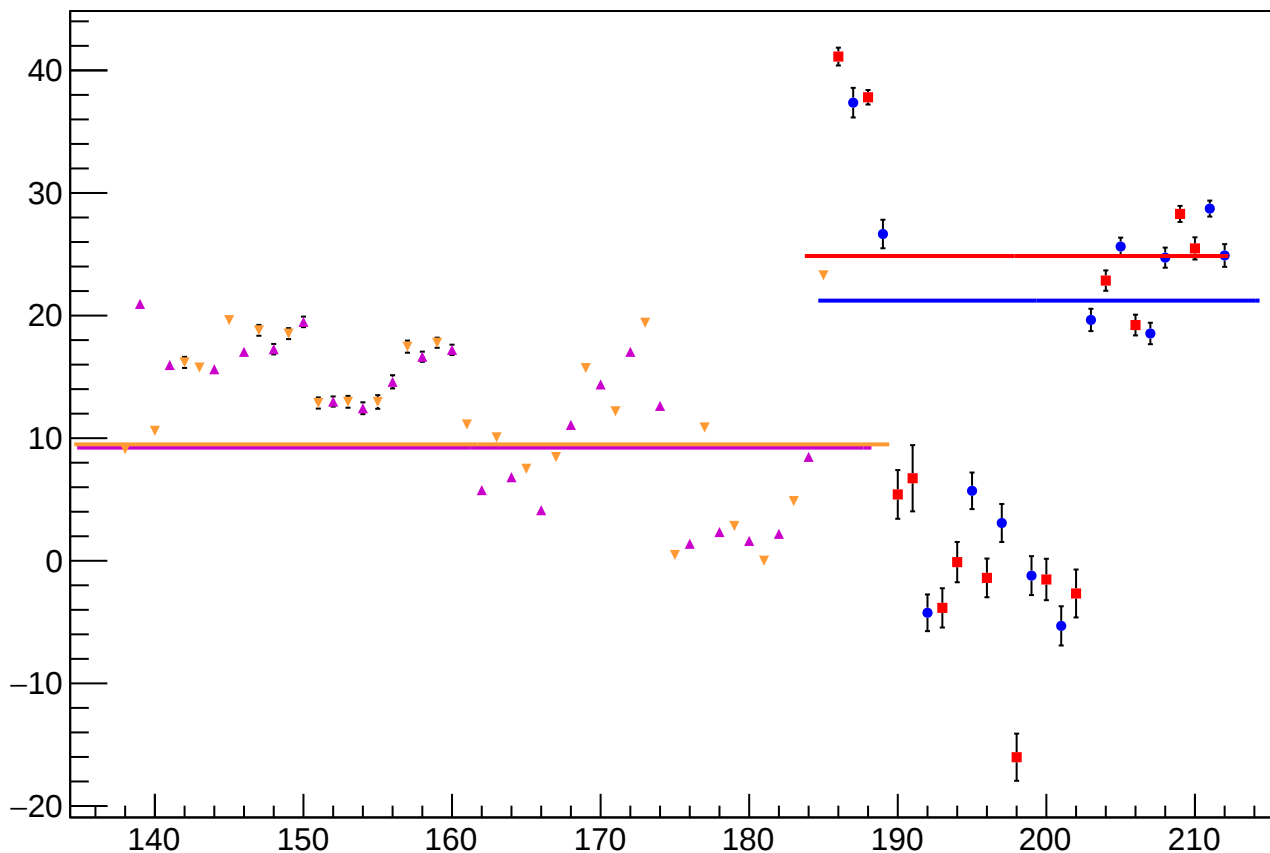
Right: -0.015 ± 0.007 $\chi^2/\text{NDF}: 3355.6/62$

In: -0.225 ± 0.007 $\chi^2/\text{NDF}: 3672.8/52$

Out: -0.244 ± 0.007 $\chi^2/\text{NDF}: 3420.9/57$

All: -0.234 ± 0.005 $\chi^2/\text{NDF}: 7097.7/110$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 21.220 ± 0.278 $\chi^2/\text{NDF}: 1425.9/12$

Left Out: 9.495 ± 0.061 $\chi^2/\text{NDF}: 12609.1/24$

Right Out: 24.858 ± 0.271 $\chi^2/\text{NDF}: 2922.2/13$

Left In: 9.231 ± 0.063 $\chi^2/\text{NDF}: 10736.2/22$

Left: 9.367 ± 0.044 $\chi^2/\text{NDF}: 23354.3/47$

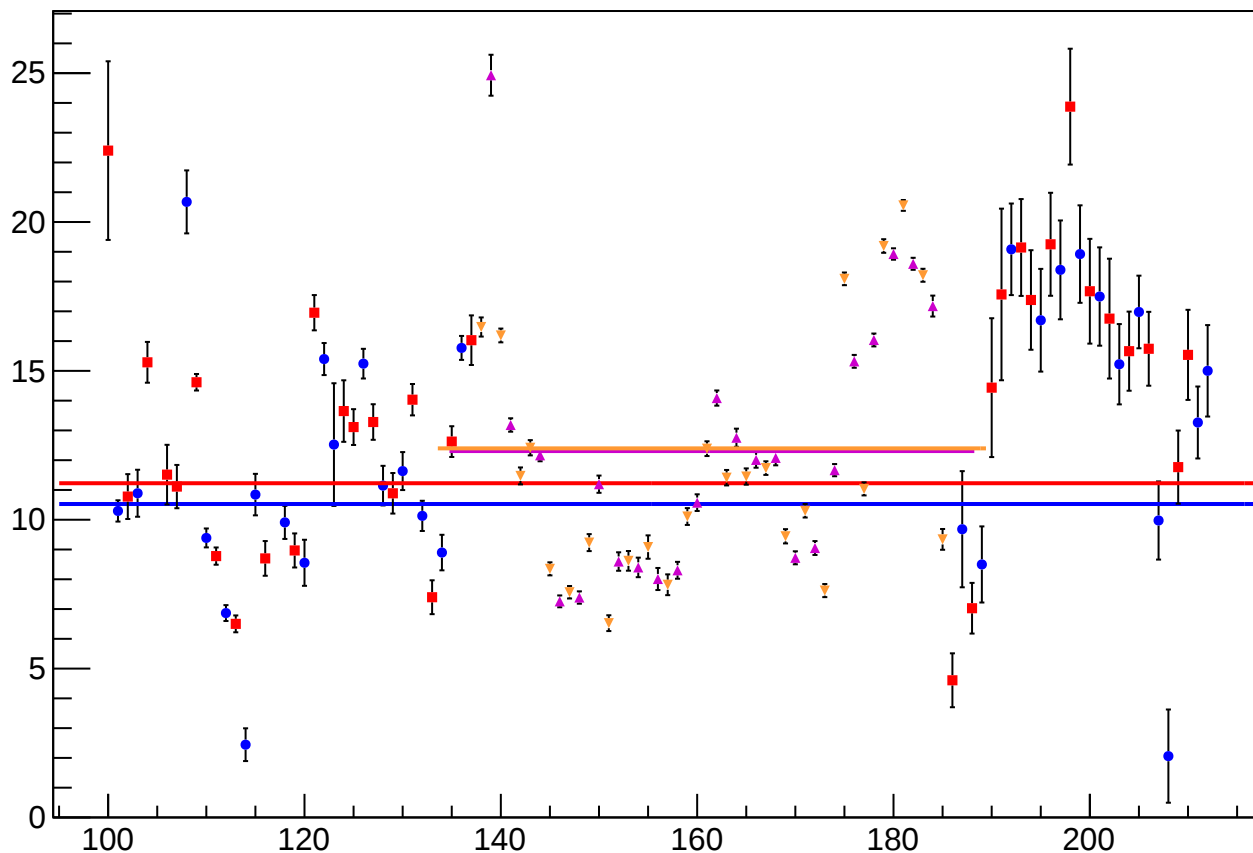
Right: 23.084 ± 0.194 $\chi^2/\text{NDF}: 4435.9/26$

In: 9.817 ± 0.061 $\chi^2/\text{NDF}: 13930.7/35$

Out: 10.240 ± 0.060 $\chi^2/\text{NDF}: 18582.9/38$

All: 10.034 ± 0.043 $\chi^2/\text{NDF}: 32537.9/74$

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.528 $\pm$ 0.115 χ^2 /NDF: 1067.8/29

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.226 $\pm$ 0.111 χ^2 /NDF: 1057.2/32

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

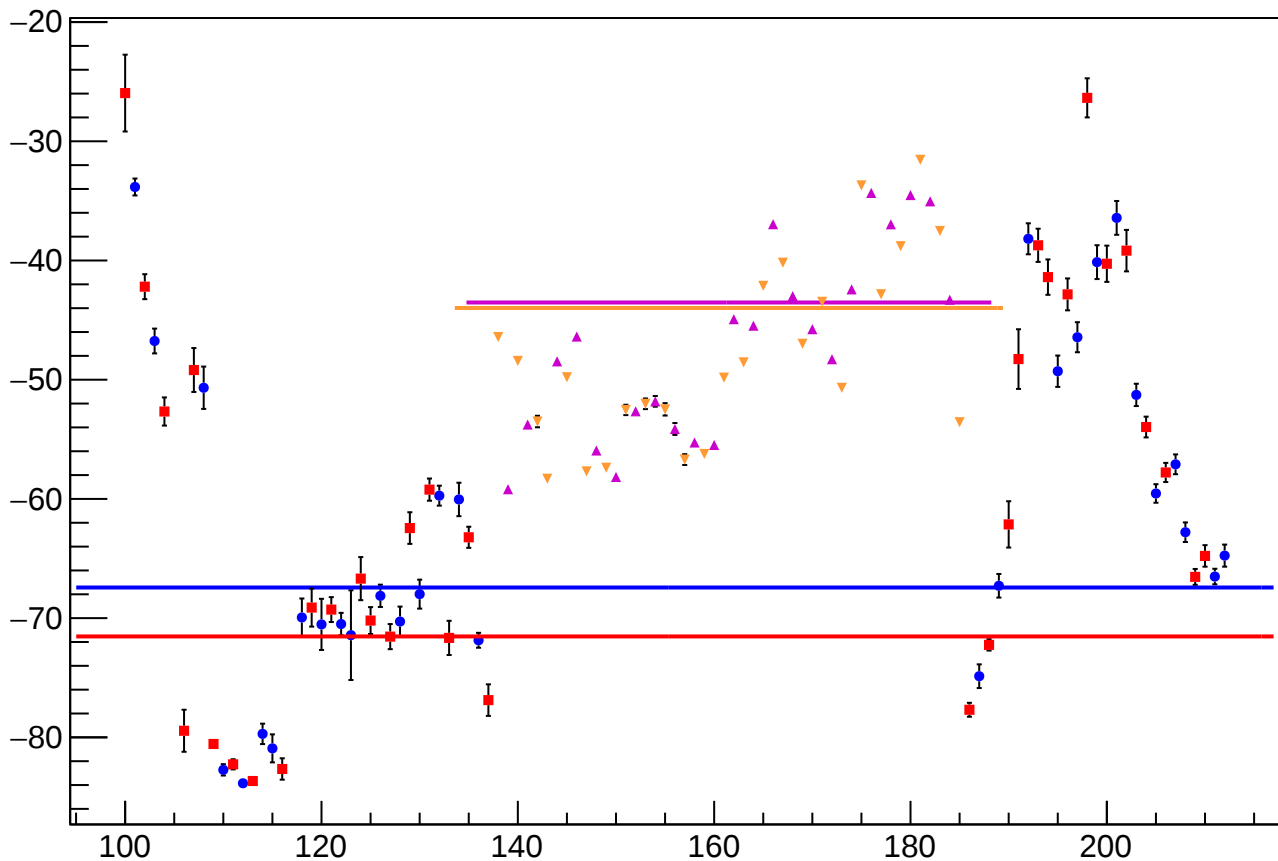
Right: 10.888 $\pm$ 0.080 χ^2 /NDF: 2144.1/62

In: 12.012 $\pm$ 0.047 χ^2 /NDF: 6869.9/52

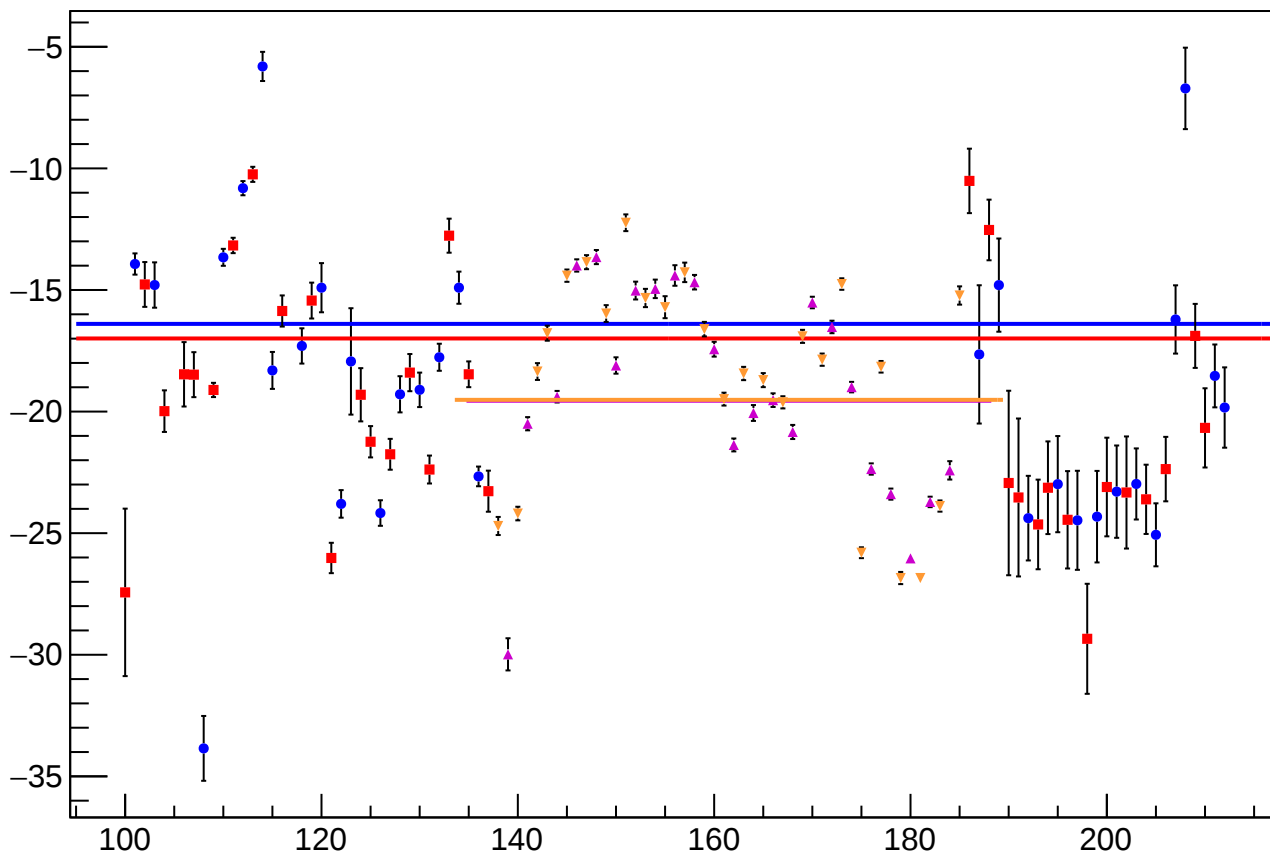
Out: 12.202 $\pm$ 0.045 χ^2 /NDF: 8692.4/57

All: 12.110 $\pm$ 0.033 χ^2 /NDF: 15570.8/110

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.394 ± 0.128 $\chi^2/\text{NDF}: 1811.4/29$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -16.994 ± 0.124 $\chi^2/\text{NDF}: 1388.2/32$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

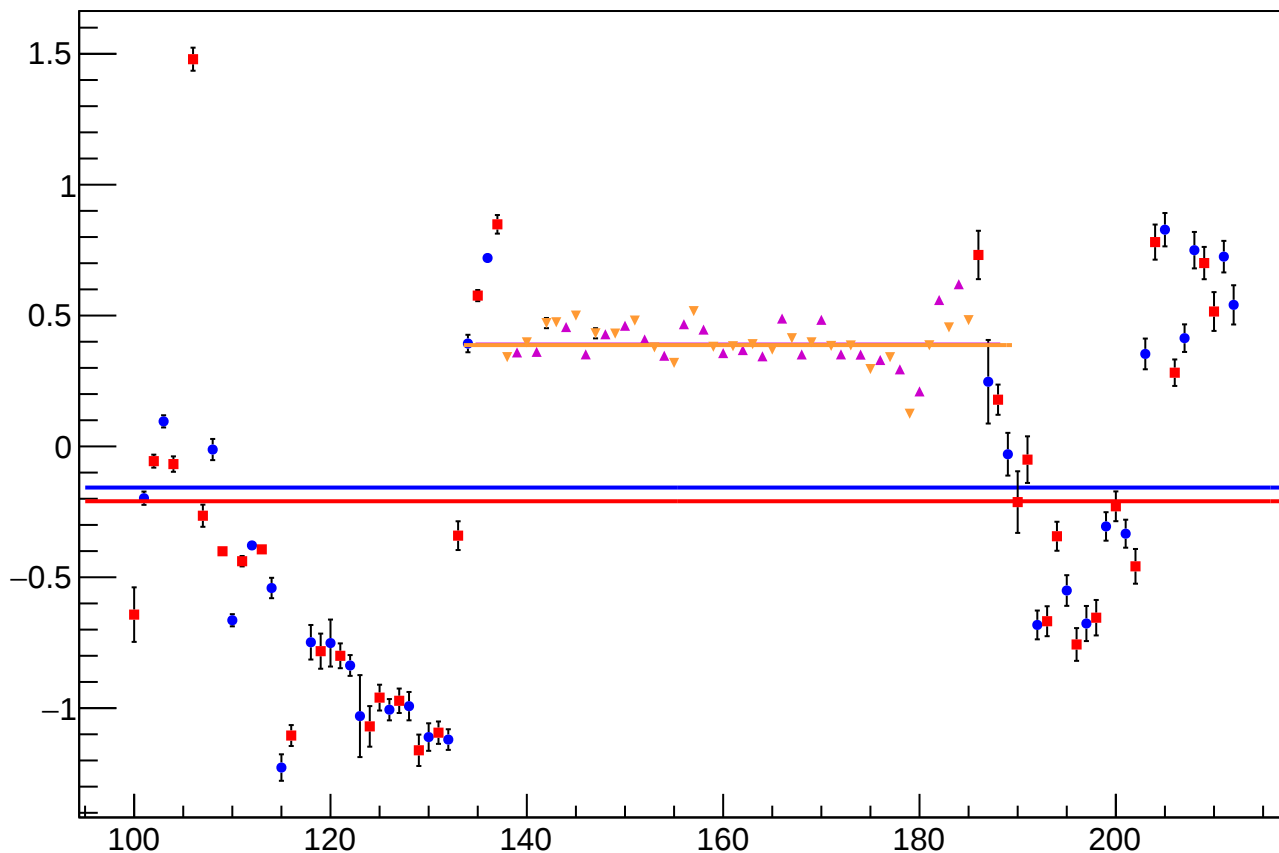
Right: -16.704 ± 0.089 $\chi^2/\text{NDF}: 3211.1/62$

In: -19.024 ± 0.052 $\chi^2/\text{NDF}: 6632.7/52$

Out: -19.090 ± 0.051 $\chi^2/\text{NDF}: 8253.3/57$

All: -19.058 ± 0.036 $\chi^2/\text{NDF}: 14886.8/110$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.157 ± 0.007 χ^2/NDF : 7467.7/29

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.210 ± 0.007 χ^2/NDF : 7173.2/32

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

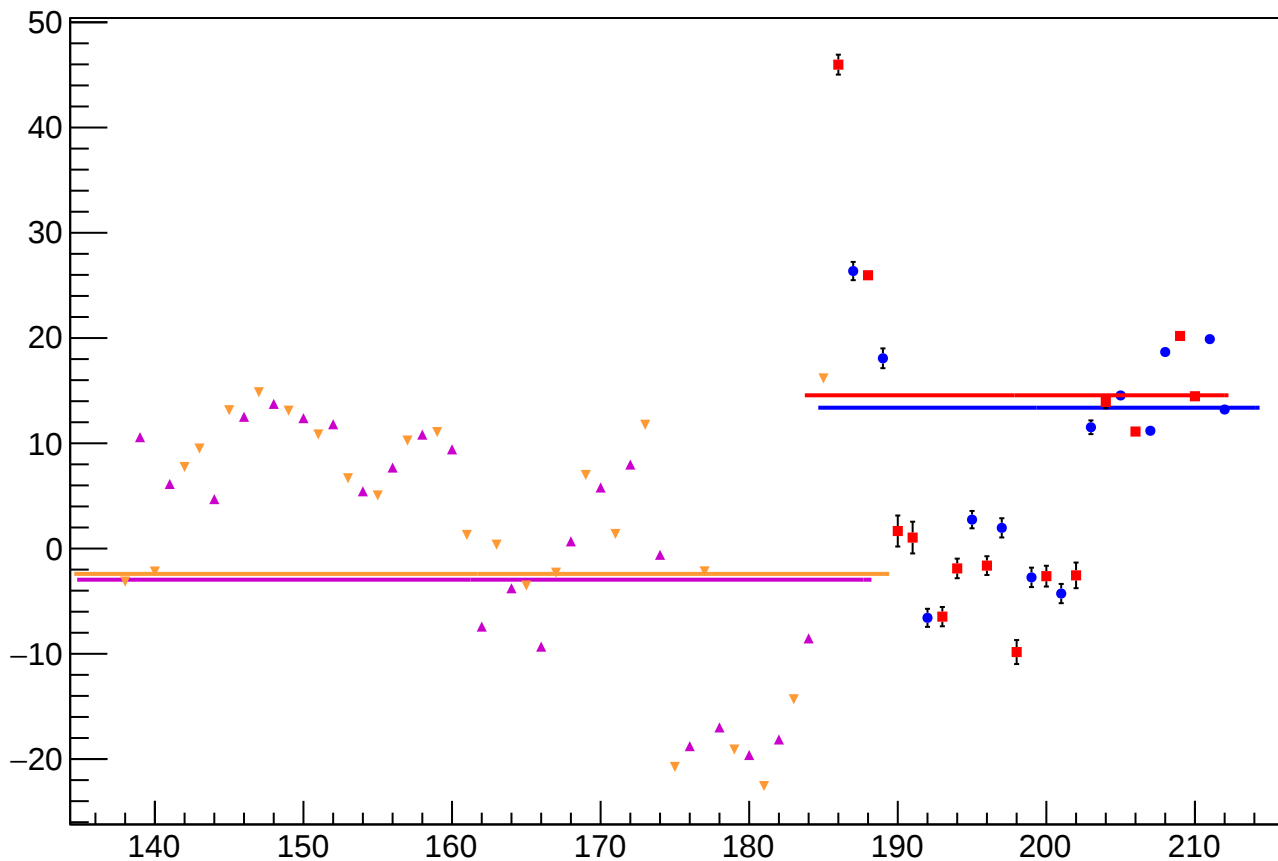
Right: -0.185 ± 0.005 χ^2/NDF : 14670.6/62

In: 0.321 ± 0.002 χ^2/NDF : 14154.3/52

Out: 0.310 ± 0.002 χ^2/NDF : 15199.9/57

All: 0.315 ± 0.002 χ^2/NDF : 29364.5/110

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.381 ± 0.159 χ^2/NDF : 2343.4/12

Left Out: -2.407 ± 0.053 χ^2/NDF : 56368.5/24

Right Out: 14.560 ± 0.170 χ^2/NDF : 4425.3/13

Left In: -2.959 ± 0.055 χ^2/NDF : 45922.6/22

Left: -2.672 ± 0.038 χ^2/NDF : 102343.8/47

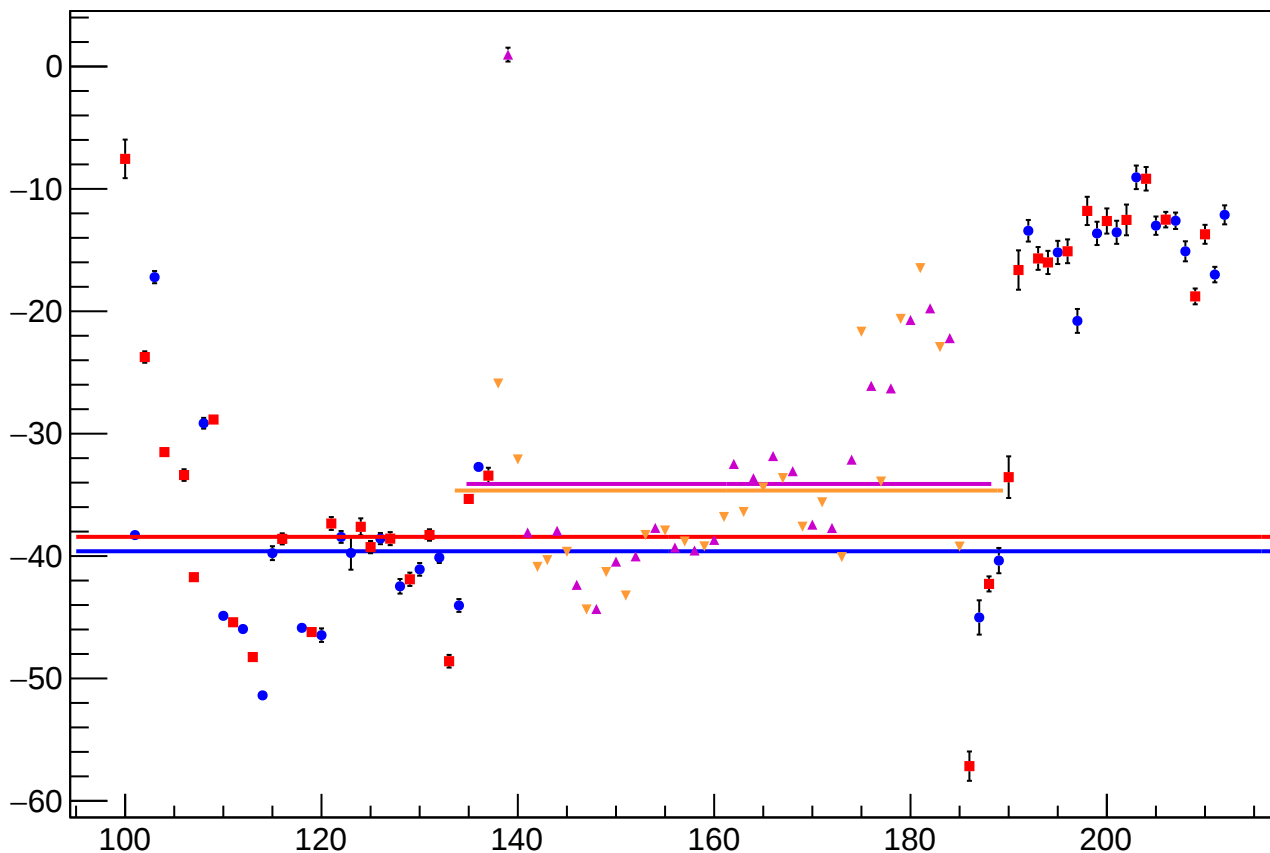
Right: 13.933 ± 0.116 χ^2/NDF : 6794.4/26

In: -1.225 ± 0.052 χ^2/NDF : 57680.6/35

Out: -0.911 ± 0.050 χ^2/NDF : 69908.7/38

All: -1.064 ± 0.036 χ^2/NDF : 127608.2/74

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -39.608 ± 0.074 $\chi^2/\text{NDF}: 18346.9/29$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -38.430 ± 0.070 $\chi^2/\text{NDF}: 20152.4/32$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

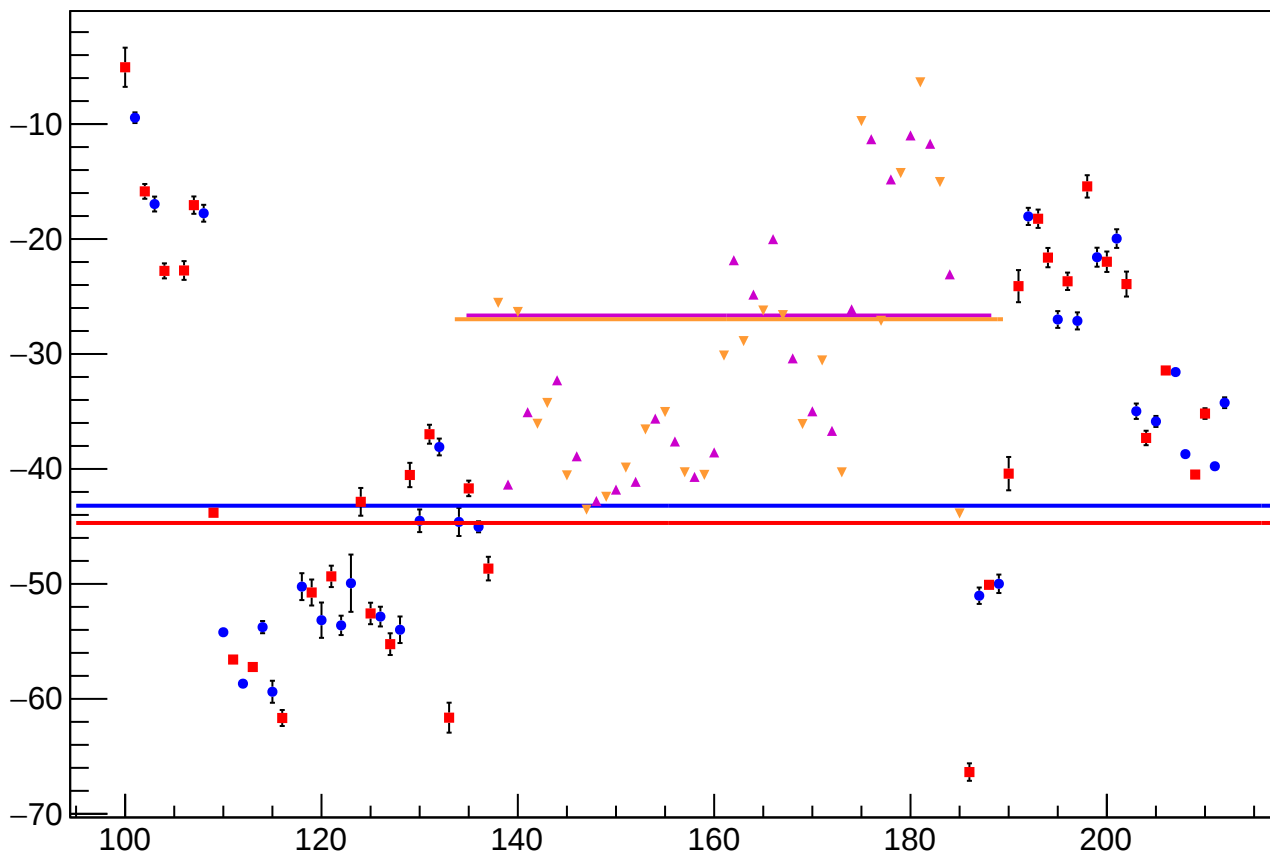
Right: -38.982 ± 0.051 $\chi^2/\text{NDF}: 38633.1/62$

In: -35.536 ± 0.038 $\chi^2/\text{NDF}: 51463.4/52$

Out: -35.646 ± 0.036 $\chi^2/\text{NDF}: 56996.7/57$

All: -35.594 ± 0.026 $\chi^2/\text{NDF}: 108464.5/110$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.198 ± 0.097 $\chi^2/\text{NDF}: 22127.2/29$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -44.699 ± 0.089 $\chi^2/\text{NDF}: 20316.7/32$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

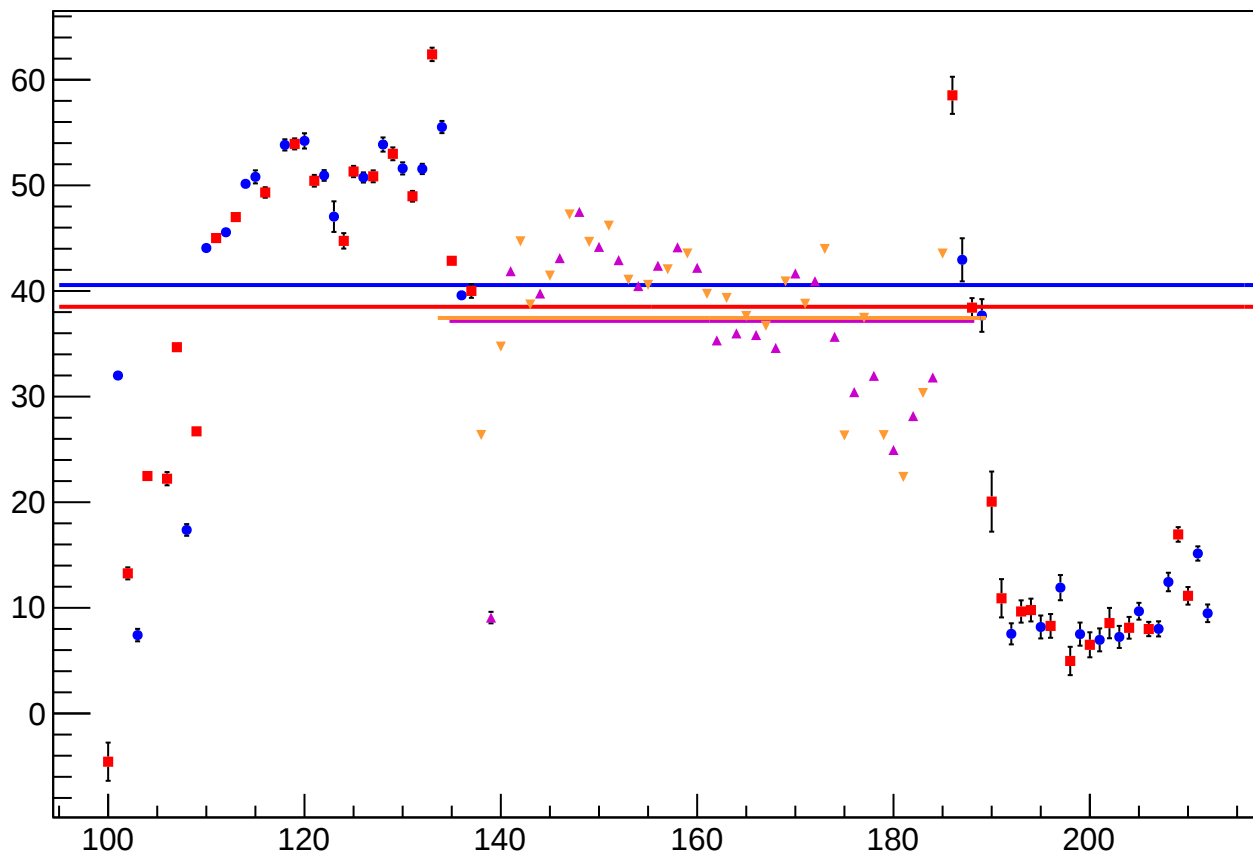
Right: -44.014 ± 0.065 $\chi^2/\text{NDF}: 42574.6/62$

In: -30.686 ± 0.048 $\chi^2/\text{NDF}: 86341.6/52$

Out: -31.667 ± 0.046 $\chi^2/\text{NDF}: 99051.5/57$

All: -31.199 ± 0.033 $\chi^2/\text{NDF}: 185613.4/110$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 40.562 $\pm$ 0.083 χ^2 /NDF: 24713.2/29

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 38.504 $\pm$ 0.077 χ^2 /NDF: 27520.7/32

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

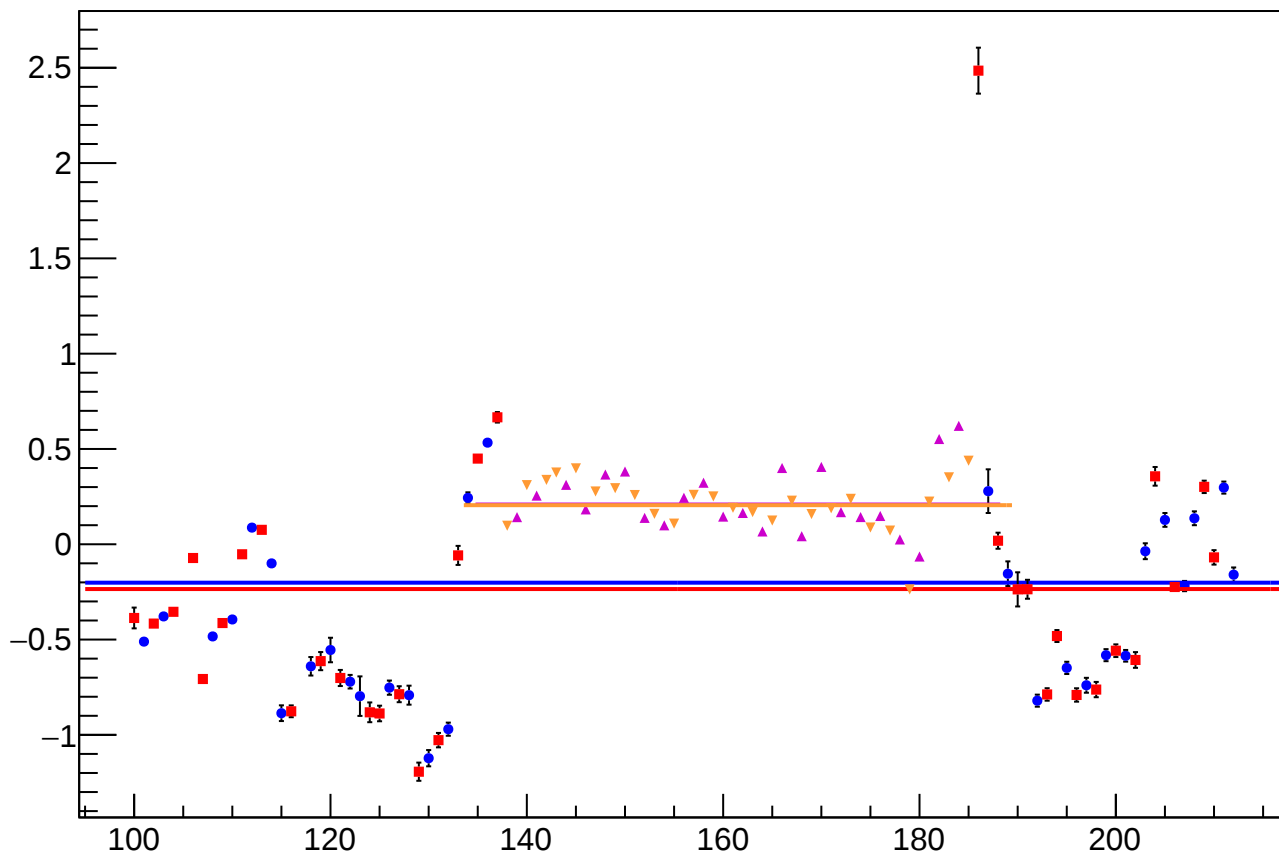
Right: 39.461 $\pm$ 0.056 χ^2 /NDF: 52565.3/62

In: 38.058 $\pm$ 0.042 χ^2 /NDF:43192.8/52

Out: 37.735 $\pm$ 0.040 χ^2 /NDF:49228.1/57

All: 37.888 $\pm$ 0.029 χ^2 /NDF: 92451.6/110

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.202 ± 0.004 χ^2/NDF : 8901.9/29

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.235 ± 0.004 χ^2/NDF : 9358.9/32

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

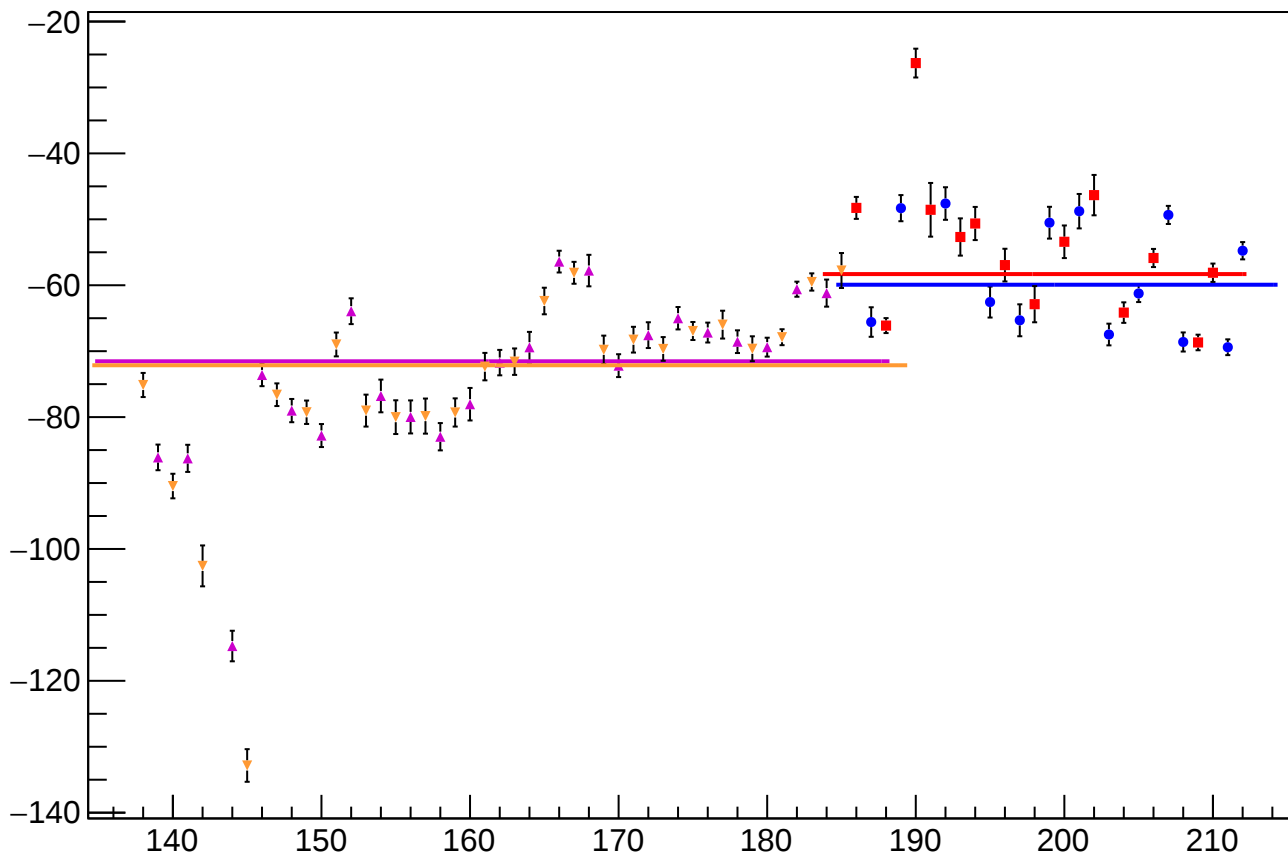
Right: -0.220 ± 0.003 χ^2/NDF : 18292.9/62

In: 0.122 ± 0.002 χ^2/NDF : 21000.5/52

Out: 0.103 ± 0.002 χ^2/NDF : 22647.6/57

All: 0.112 ± 0.001 χ^2/NDF : 43695.0/110

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -59.921+/-0.470 χ^2/NDF : 300.8/12

Left Out: -72.138+/-0.383 χ^2/NDF :1121.3/23

Right Out: -58.305+/-0.475 χ^2/NDF : 433.7/13

Left In: -71.534+/-0.382 χ^2/NDF :851.4/22

Left: -71.835+/-0.270 χ^2/NDF : 1974.0/46

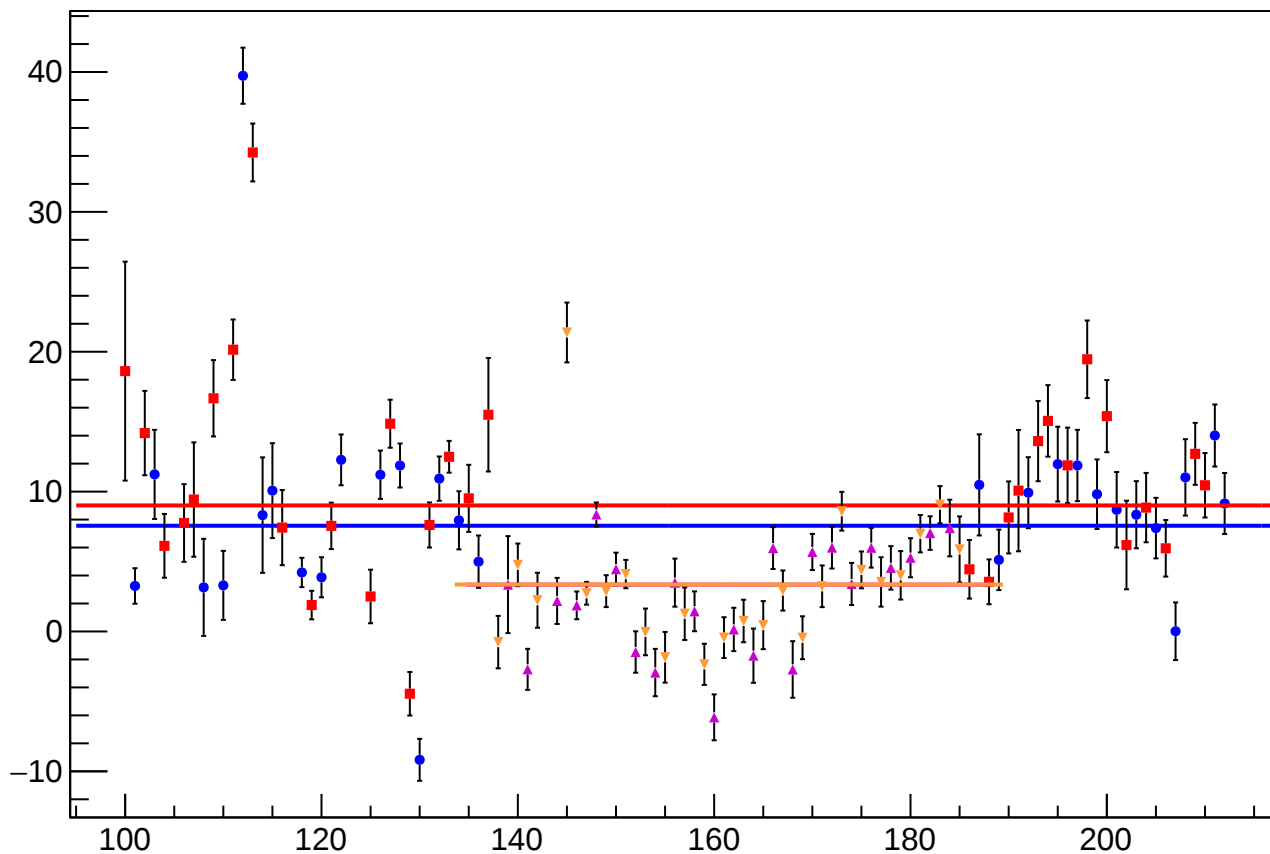
Right: -59.122+/-0.334 χ^2/NDF : 740.3/26

In: -66.917+/-0.296 χ^2/NDF :1520.3/35

Out: -66.693+/-0.298 χ^2/NDF :2068.8/37

All: -66.806+/-0.210 χ^2/NDF : 3589.4/73

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.558 ± 0.368 $\chi^2/\text{NDF}: 474.9/28$

Left Out: 3.357 ± 0.295 $\chi^2/\text{NDF}: 167.7/23$

Right Out: 9.010 ± 0.368 $\chi^2/\text{NDF}: 402.2/31$

Left In: 3.349 ± 0.298 $\chi^2/\text{NDF}: 163.5/22$

Left: 3.353 ± 0.210 $\chi^2/\text{NDF}: 331.2/46$

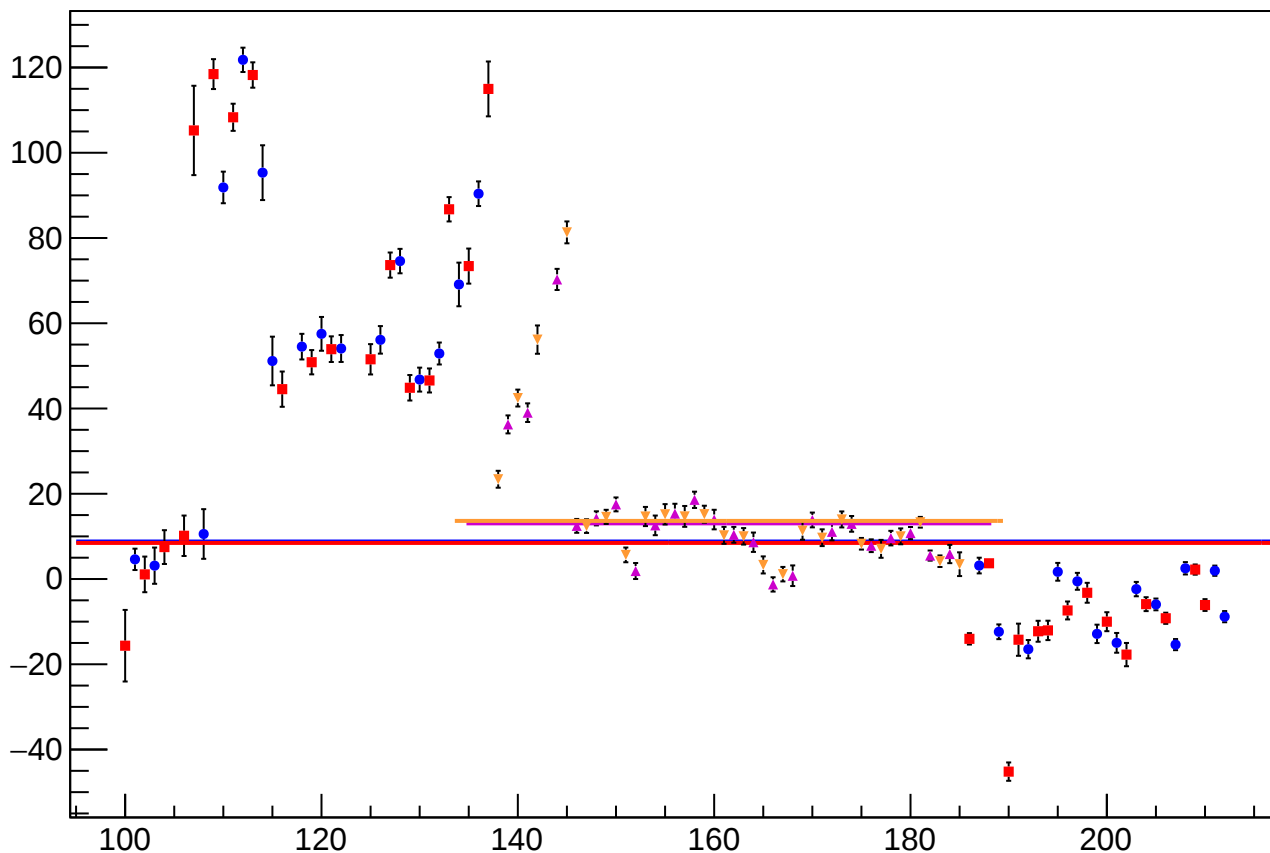
Right: 8.285 ± 0.260 $\chi^2/\text{NDF}: 884.9/60$

In: 5.015 ± 0.232 $\chi^2/\text{NDF}: 717.3/51$

Out: 5.566 ± 0.230 $\chi^2/\text{NDF}: 713.6/55$

All: 5.293 ± 0.163 $\chi^2/\text{NDF}: 1433.8/107$

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 8.799 ± 0.396 χ^2/NDF : 6320.9/28

Left Out: 13.632 ± 0.382 χ^2/NDF : 1300.0/23

Right Out: 8.467 ± 0.386 χ^2/NDF : 7952.0/31

Left In: 13.058 ± 0.380 χ^2/NDF : 1024.7/22

Left: 13.344 ± 0.269 χ^2/NDF : 2325.9/46

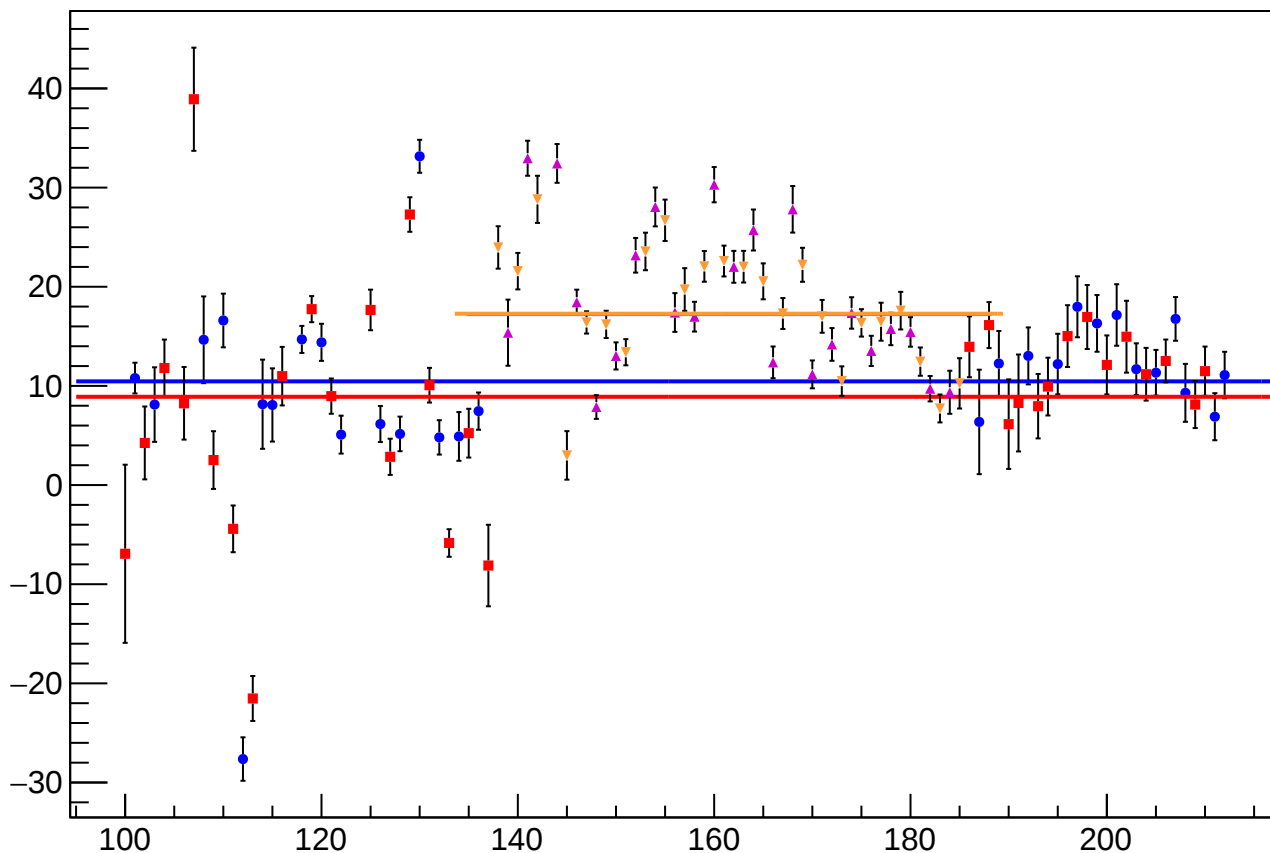
Right: 8.629 ± 0.276 χ^2/NDF : 14273.2/60

In: 11.019 ± 0.274 χ^2/NDF : 7405.8/51

Out: 11.076 ± 0.271 χ^2/NDF : 9342.6/55

All: 11.048 ± 0.193 χ^2/NDF : 16748.4/107

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.457 $\pm$ 0.423 χ^2 /NDF: 578.7/28

Left Out: 17.280 $\pm$ 0.337 χ^2 /NDF:243.9/23

Right Out: 8.903 $\pm$ 0.429 χ^2 /NDF: 606.3/31

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

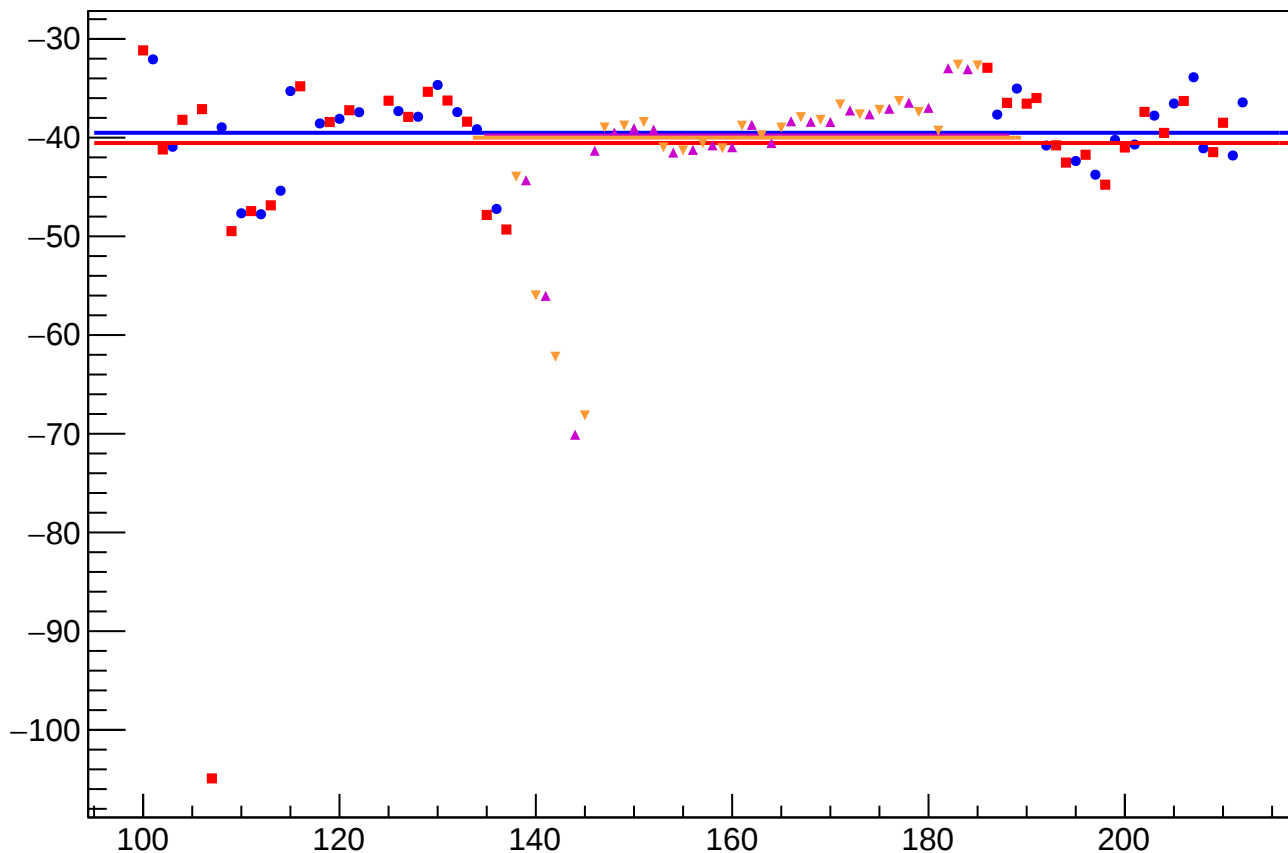
Right: 9.690 $\pm$ 0.301 χ^2 /NDF: 1191.6/60

In: 14.587 $\pm$ 0.265 χ^2 /NDF:1176.1/51

Out: 14.081 $\pm$ 0.265 χ^2 /NDF:1086.0/55

All: 14.334 $\pm$ 0.187 χ^2 /NDF: 2263.9/107

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.509 $\pm$ 0.021 χ^2 /NDF: 37763.0/28

Left Out: -39.999 $\pm$ 0.016 χ^2 /NDF:172263.8/23

Right Out: -40.543 $\pm$ 0.021 χ^2 /NDF: 107108.0/31

Left In: -39.785 $\pm$ 0.016 χ^2 /NDF:144494.5/22

Left: -39.891 $\pm$ 0.011 χ^2 /NDF: 316851.8/46

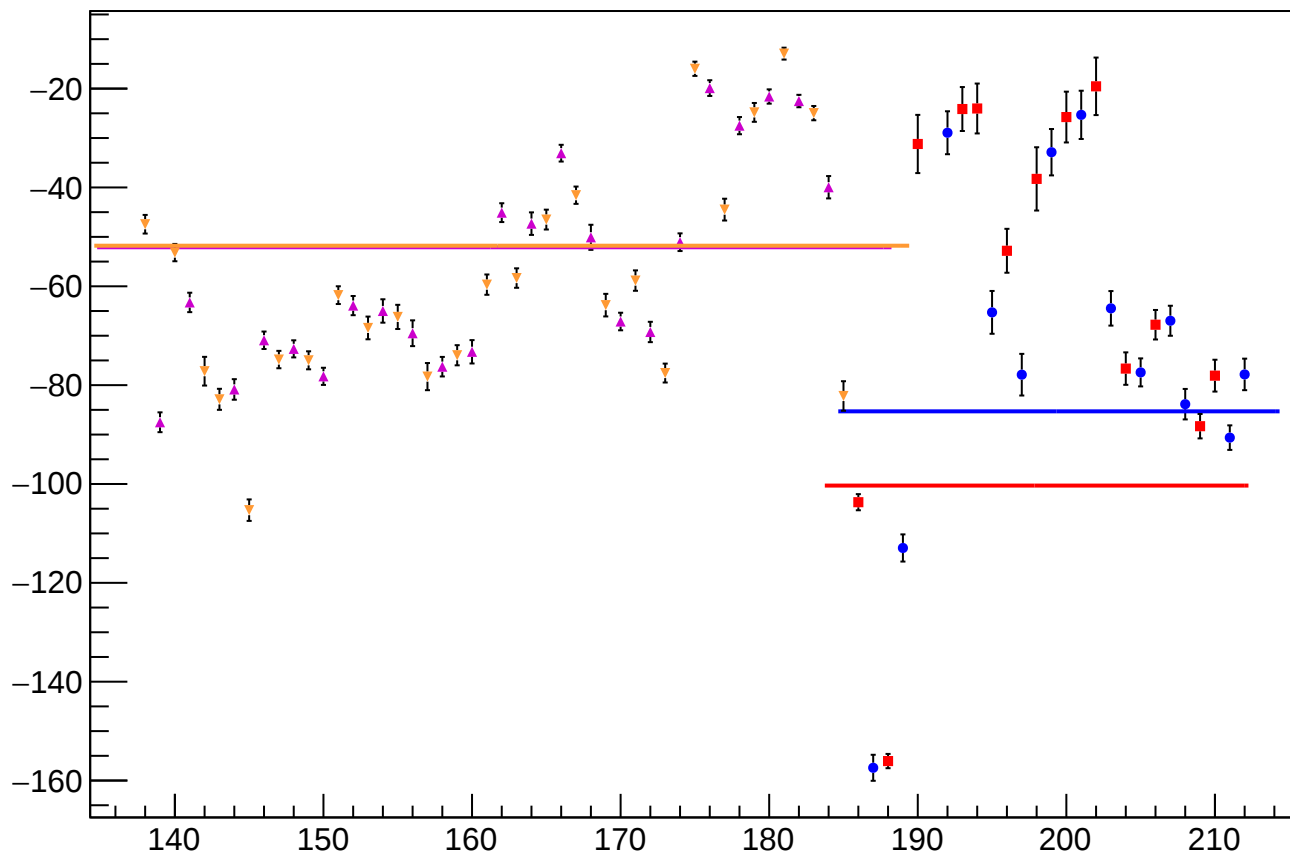
Right: -40.029 $\pm$ 0.015 χ^2 /NDF: 146095.6/60

In: -39.686 $\pm$ 0.013 χ^2 /NDF:182368.4/51

Out: -40.197 $\pm$ 0.013 χ^2 /NDF:279805.2/55

All: -39.941 $\pm$ 0.009 χ^2 /NDF: 463003.0/107

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -85.301 ± 0.910 $\chi^2/\text{NDF}: 1410.8/12$

Left Out: -51.787 ± 0.383 $\chi^2/\text{NDF}: 4164.8/24$

Right Out: -100.321 ± 0.795 $\chi^2/\text{NDF}: 3004.5/12$

Left In: -52.104 ± 0.389 $\chi^2/\text{NDF}: 3280.2/22$

Left: -51.943 ± 0.273 $\chi^2/\text{NDF}: 7445.3/47$

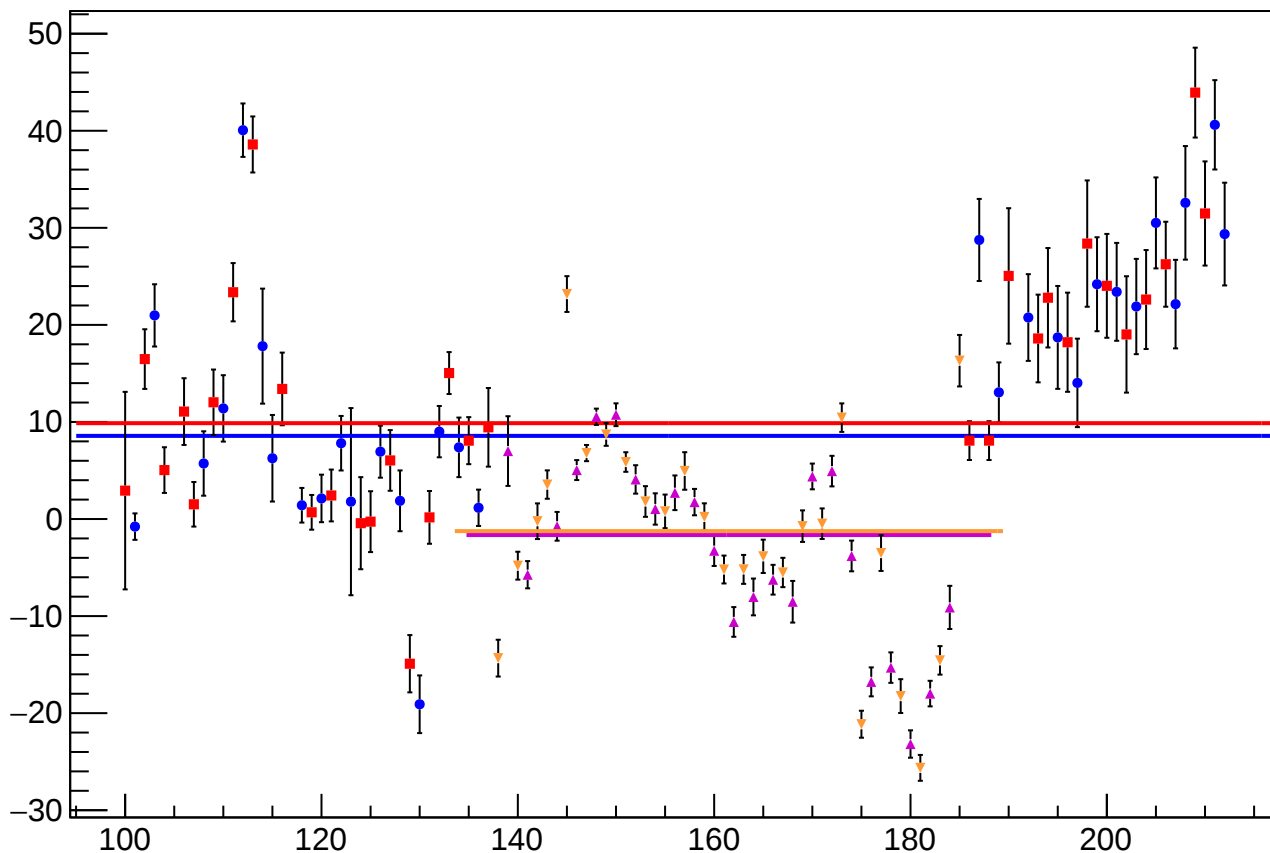
Right: -93.817 ± 0.599 $\chi^2/\text{NDF}: 4569.7/25$

In: -57.224 ± 0.357 $\chi^2/\text{NDF}: 5816.1/35$

Out: -60.908 ± 0.345 $\chi^2/\text{NDF}: 10192.8/37$

All: -59.132 ± 0.248 $\chi^2/\text{NDF}: 16064.0/73$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.566 ± 0.563 $\chi^2/\text{NDF}: 503.5/29$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 9.875 ± 0.554 $\chi^2/\text{NDF}: 410.5/31$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

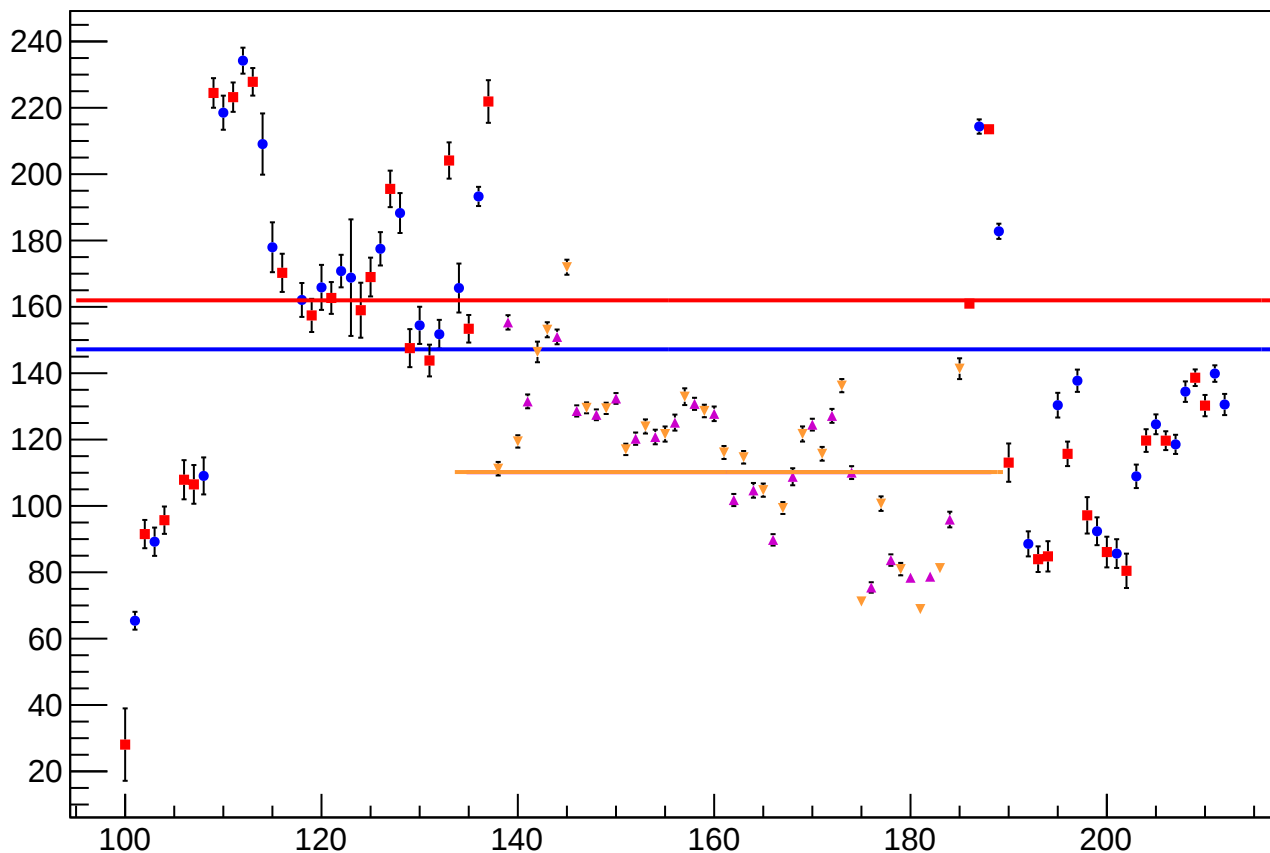
Right: 9.231 ± 0.395 $\chi^2/\text{NDF}: 916.8/61$

In: 0.611 ± 0.265 $\chi^2/\text{NDF}: 1852.2/52$

Out: 1.171 ± 0.258 $\chi^2/\text{NDF}: 2048.9/56$

All: 0.898 ± 0.185 $\chi^2/\text{NDF}: 3903.3/109$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 147.196 $\pm$ 0.678 χ^2 /NDF: 4467.3/29

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 161.966 $\pm$ 0.592 χ^2 /NDF: 5821.3/31

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

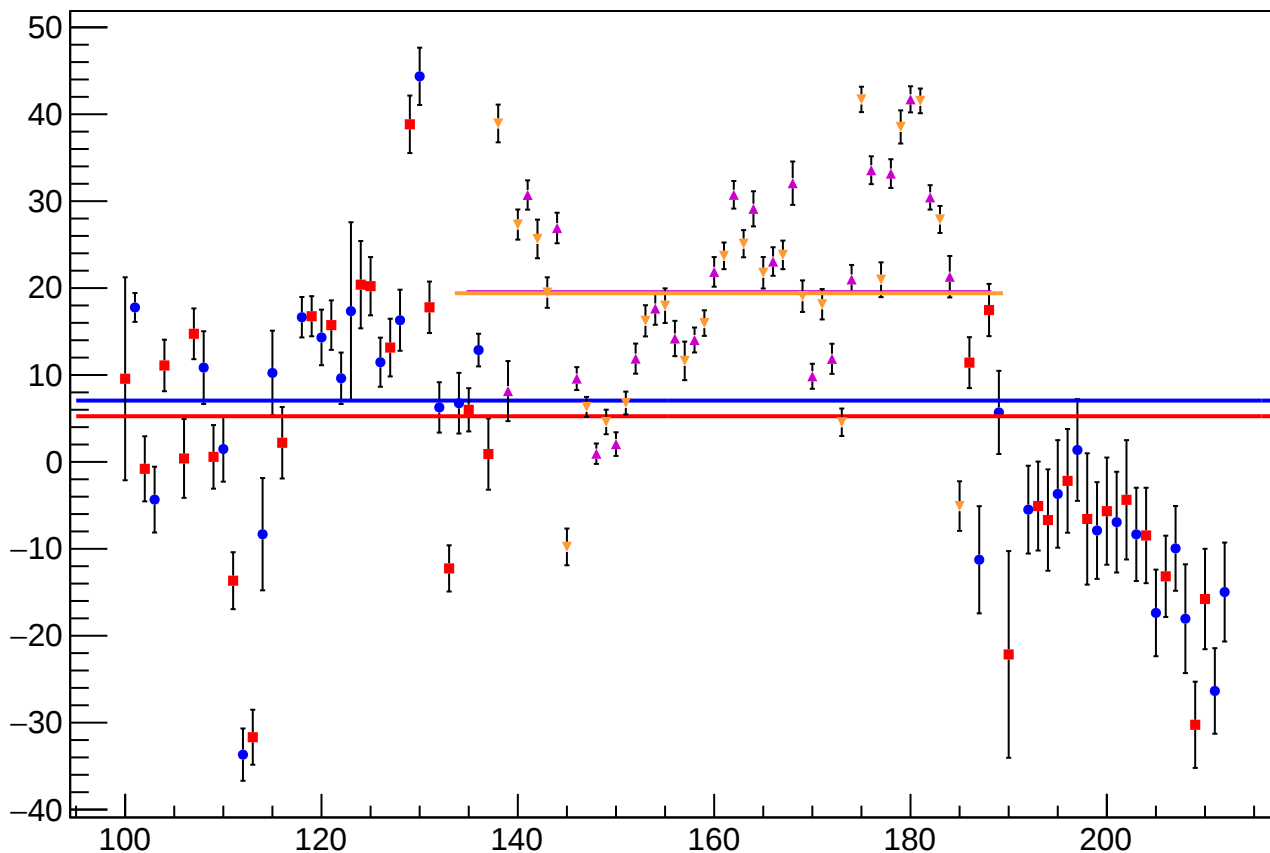
Right: 155.576 $\pm$ 0.446 χ^2 /NDF: 10557.8/61

In: 119.232 $\pm$ 0.335 χ^2 /NDF:10421.7/52

Out: 125.424 $\pm$ 0.321 χ^2 /NDF:15808.5/56

All: 122.464 $\pm$ 0.232 χ^2 /NDF: 26408.0/109

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.056 $\pm$ 0.650 χ^2/NDF : 567.7/29

Left Out: 19.405 $\pm$ 0.335 χ^2/NDF :1453.4/24

Right Out: 5.254 $\pm$ 0.655 χ^2/NDF : 558.7/31

Left In: 19.530 $\pm$ 0.342 χ^2/NDF :1181.3/22

Left: 19.466 $\pm$ 0.239 χ^2/NDF : 2634.8/47

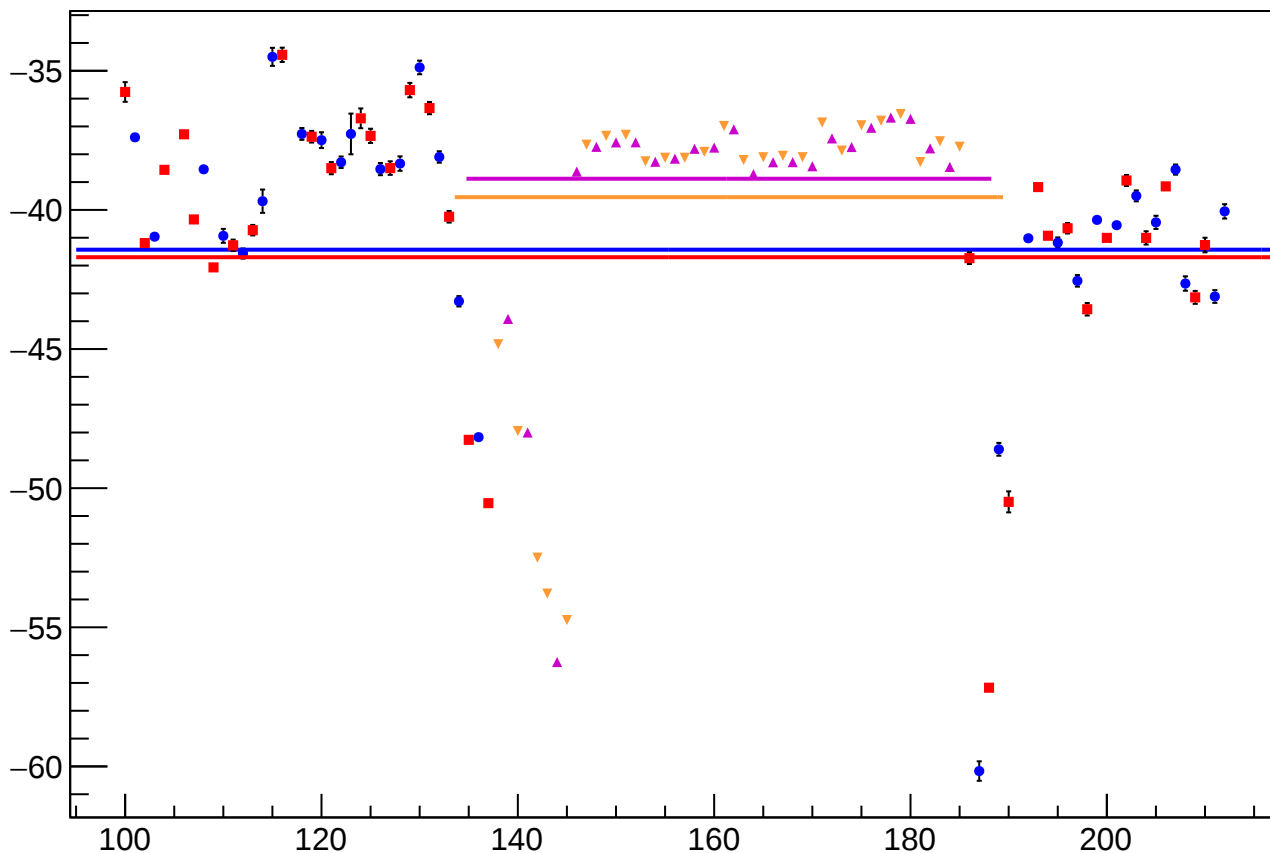
Right: 6.162 $\pm$ 0.461 χ^2/NDF : 1130.2/61

In: 16.820 $\pm$ 0.303 χ^2/NDF :2037.3/52

Out: 16.478 $\pm$ 0.298 χ^2/NDF :2382.0/56

All: 16.646 $\pm$ 0.212 χ^2/NDF : 4419.9/109

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.429 ± 0.032 $\chi^2/\text{NDF}: 16922.8/29$

Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$

Right Out: -41.700 ± 0.032 $\chi^2/\text{NDF}: 23110.8/31$

Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$

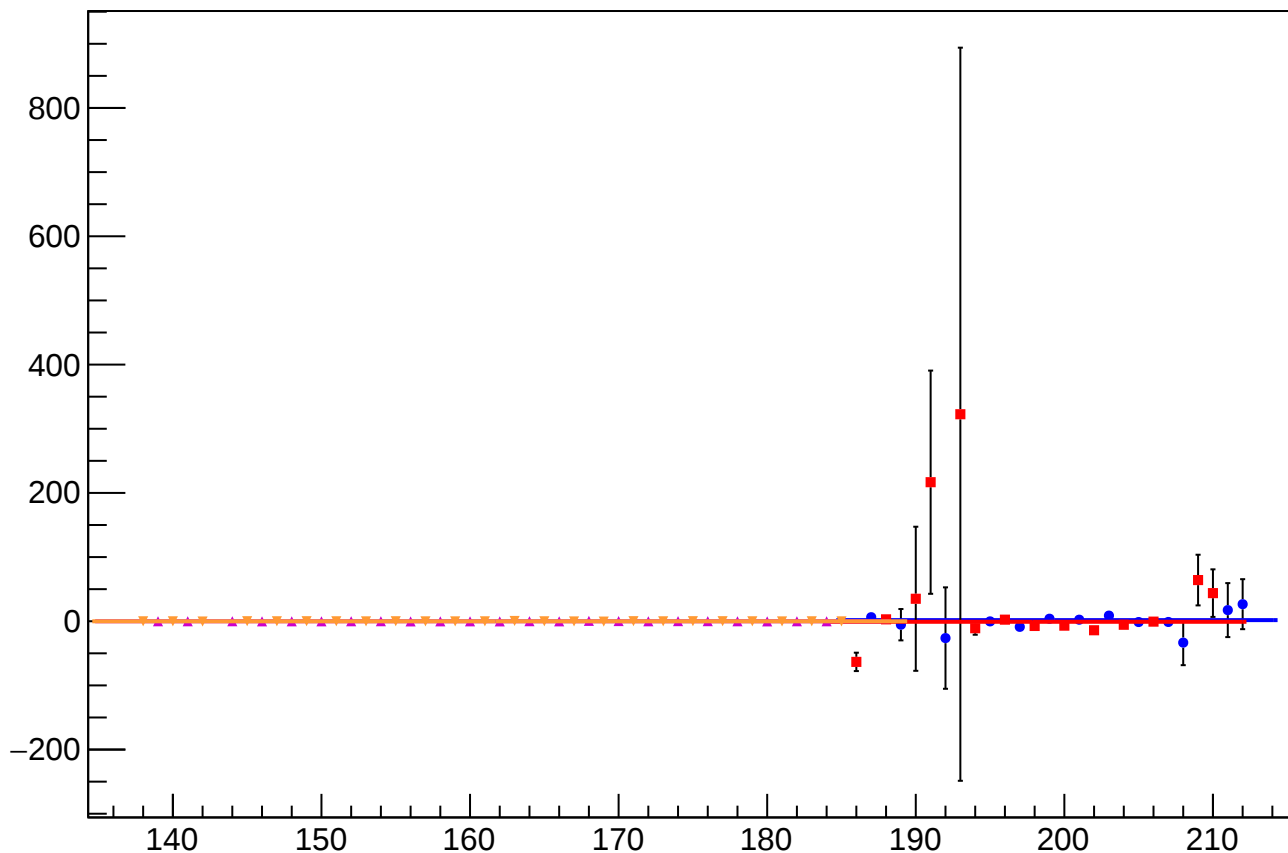
Right: -41.566 ± 0.022 $\chi^2/\text{NDF}: 40069.8/61$

In: -39.387 ± 0.014 $\chi^2/\text{NDF}: 75466.4/52$

Out: -39.970 ± 0.014 $\chi^2/\text{NDF}: 118866.2/56$

All: -39.681 ± 0.010 $\chi^2/\text{NDF}: 195183.0/109$

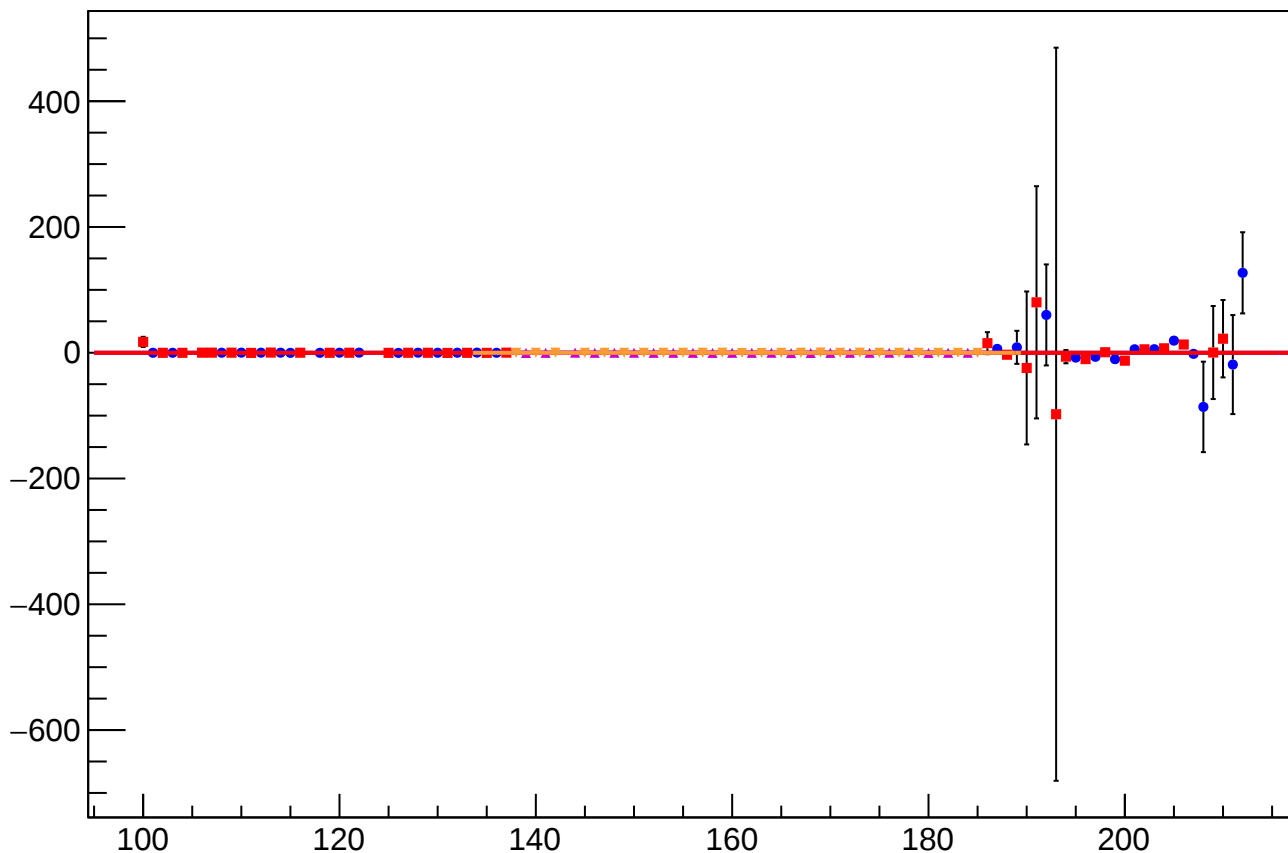
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.755 ± 1.534 $\chi^2/\text{NDF}: 12.8/12$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.845 ± 1.420 $\chi^2/\text{NDF}: 36.7/13$
 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: 0.355 ± 1.042 $\chi^2/\text{NDF}: 51.0/26$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 47.4/35$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 76.7/37$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 128.2/73$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 37.3/28

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 41.2/31

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

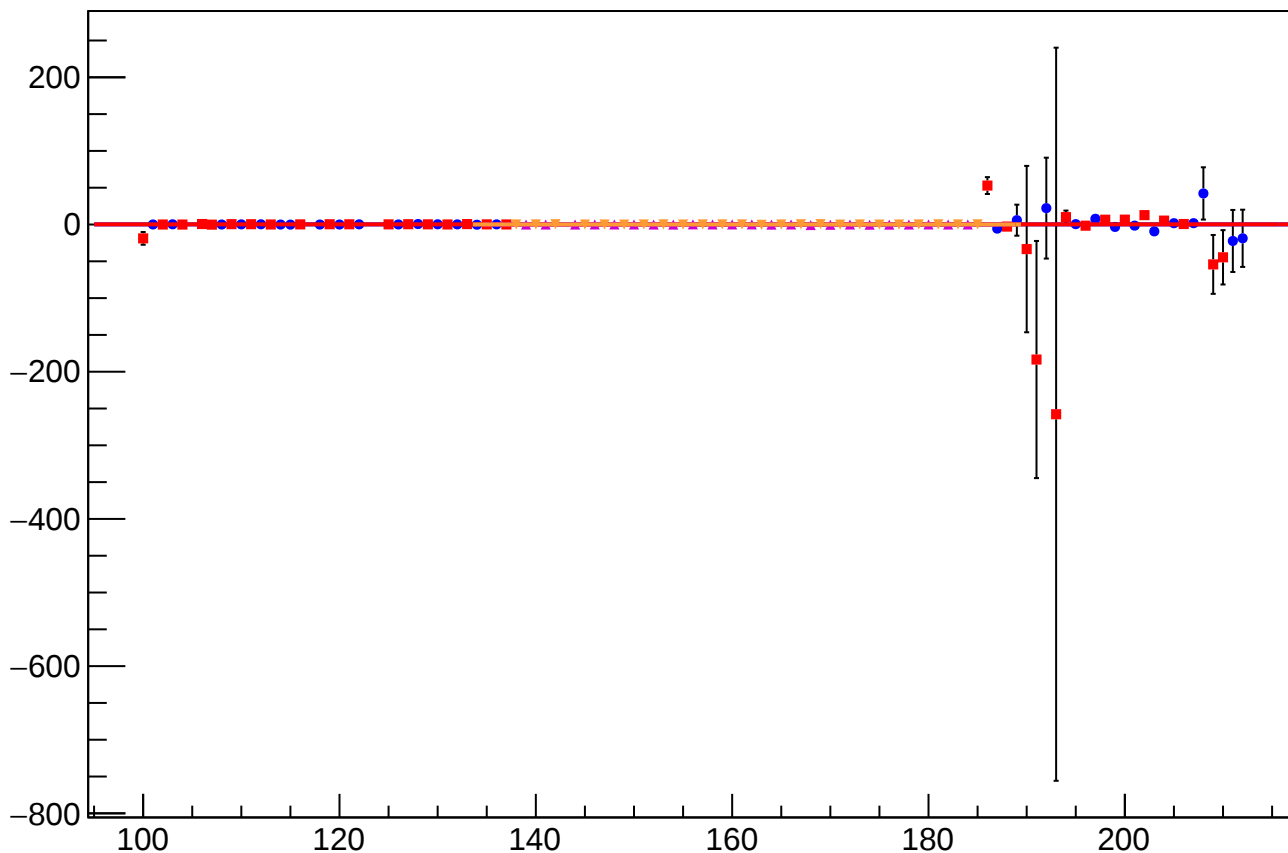
Right: -0.025 ± 0.020 χ^2/NDF : 79.9/60

In: -0.038 ± 0.015 χ^2/NDF : 71.2/51

Out: -0.073 ± 0.015 χ^2/NDF : 67.9/55

All: -0.056 ± 0.011 χ^2/NDF : 141.8/107

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 29.1/28

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 60.3/31

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

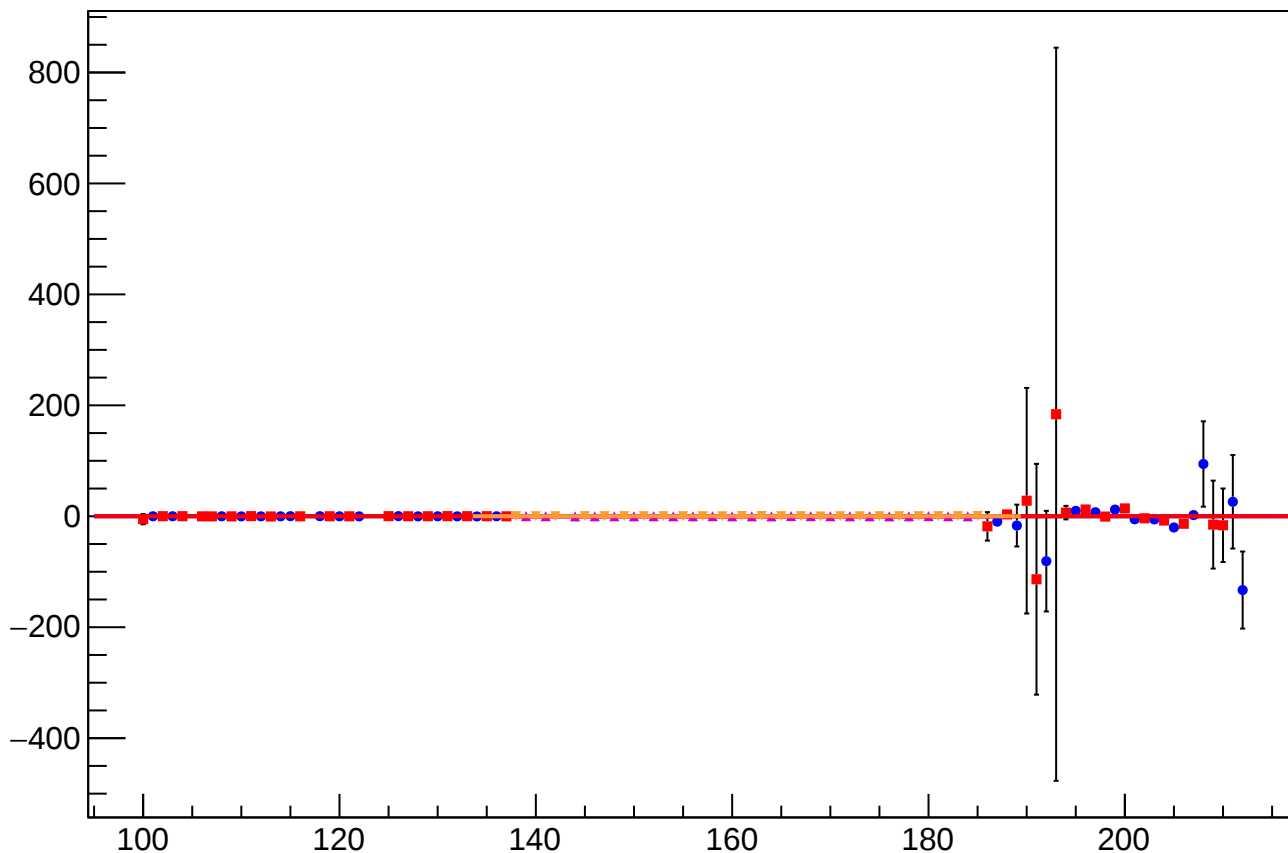
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 90.1/60

In: 0.043 $\pm$ 0.020 χ^2 /NDF:71.7/51

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:105.7/55

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 181.8/107

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 38.7/28

Left Out: 0.105 ± 0.020 χ^2/NDF : 29.5/23

Right Out: 0.057 ± 0.034 χ^2/NDF : 34.7/31

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.088 ± 0.014 χ^2/NDF : 62.5/46

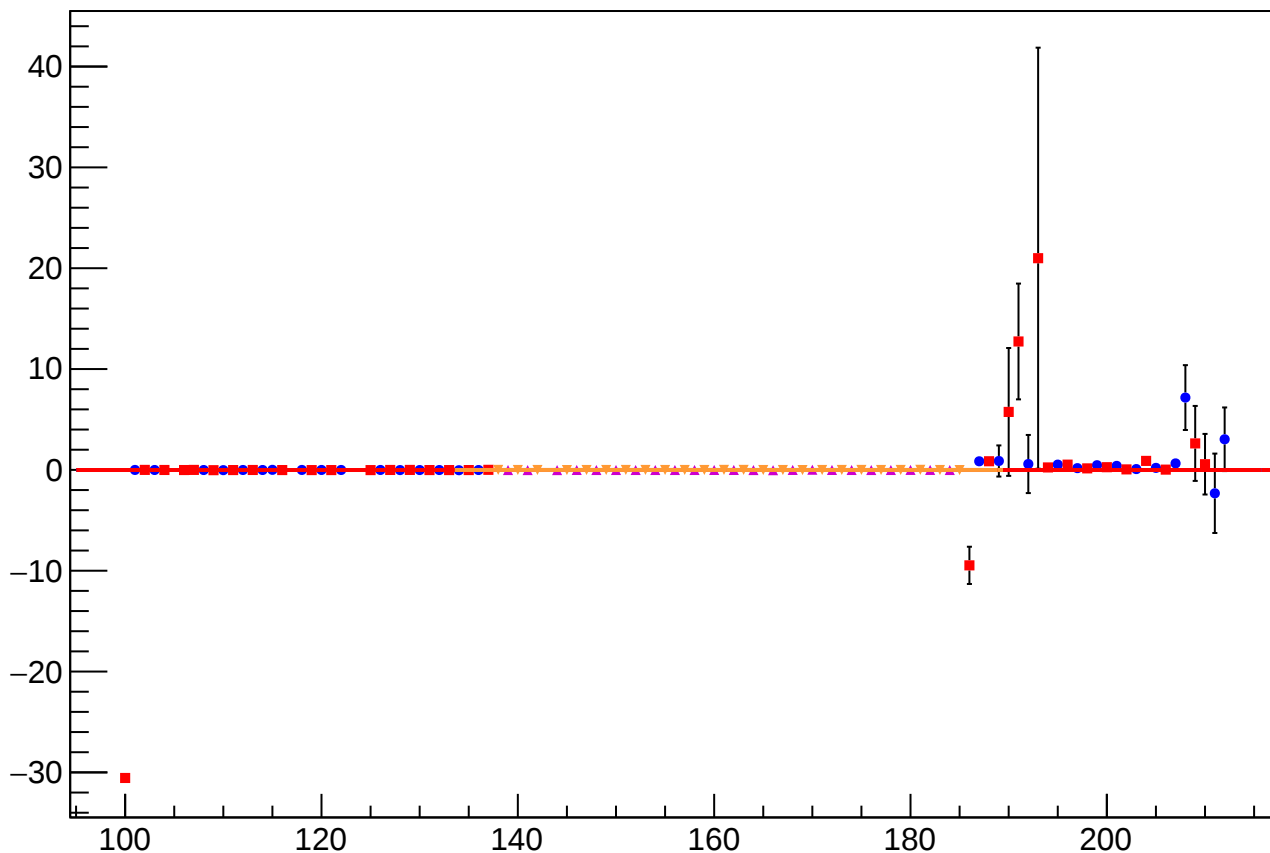
Right: 0.024 ± 0.024 χ^2/NDF : 75.2/60

In: 0.049 ± 0.017 χ^2/NDF : 74.0/51

Out: 0.093 ± 0.017 χ^2/NDF : 65.7/55

All: 0.071 ± 0.012 χ^2/NDF : 143.0/107

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 $\chi^2/\text{NDF}: 47.9/28$

Left Out: -0.008 ± 0.001 $\chi^2/\text{NDF}: 30.1/23$

Right Out: -0.012 ± 0.002 $\chi^2/\text{NDF}: 11954.9/31$

Left In: -0.009 ± 0.001 $\chi^2/\text{NDF}: 40.8/22$

Left: -0.008 ± 0.001 $\chi^2/\text{NDF}: 71.4/46$

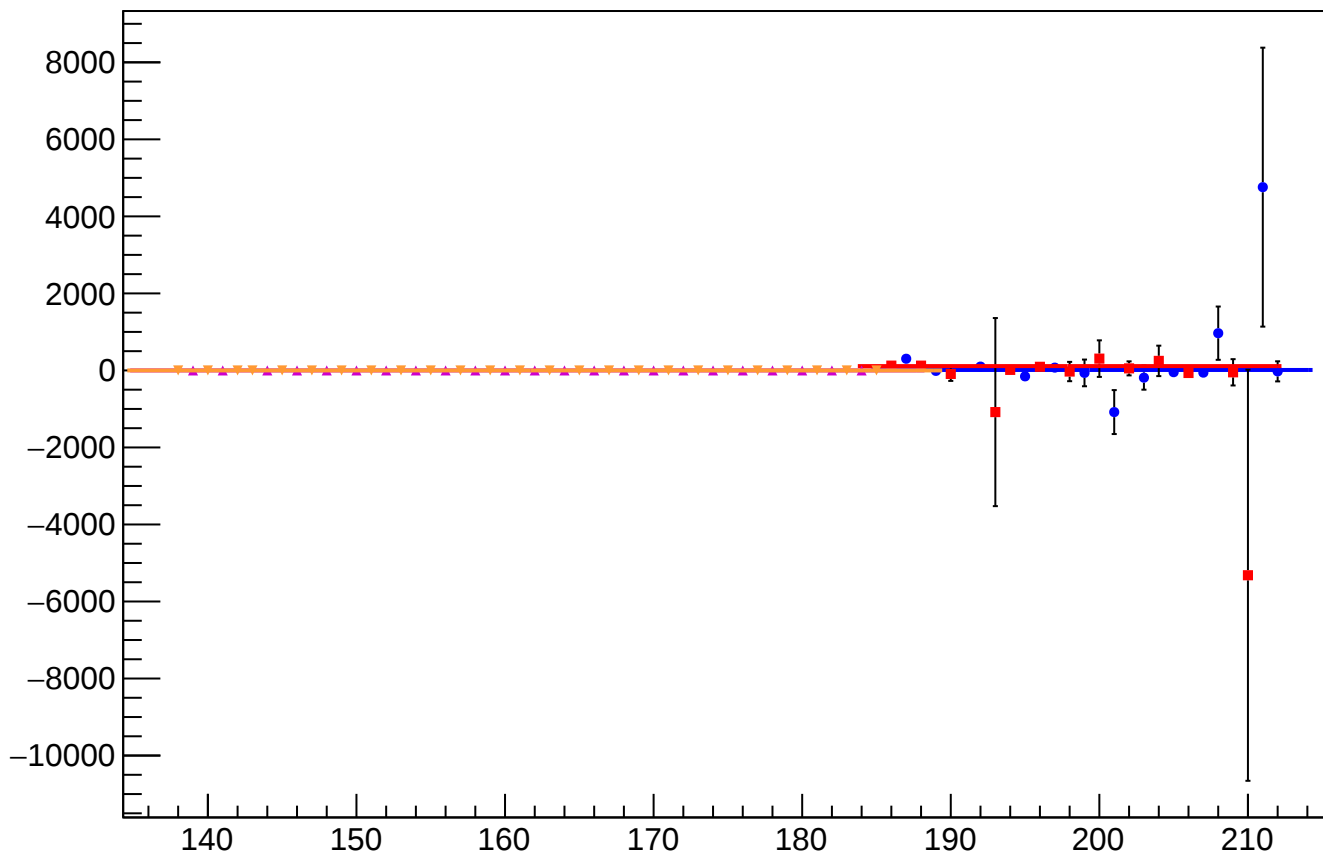
Right: -0.012 ± 0.001 $\chi^2/\text{NDF}: 12002.7/60$

In: -0.009 ± 0.001 $\chi^2/\text{NDF}: 90.8/51$

Out: -0.009 ± 0.001 $\chi^2/\text{NDF}: 11988.8/55$

All: -0.009 ± 0.001 $\chi^2/\text{NDF}: 12079.9/107$

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.783+/-25.909 χ^2/NDF : 23.9/12

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 112.536+/-16.167 χ^2/NDF : 8.5/12

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

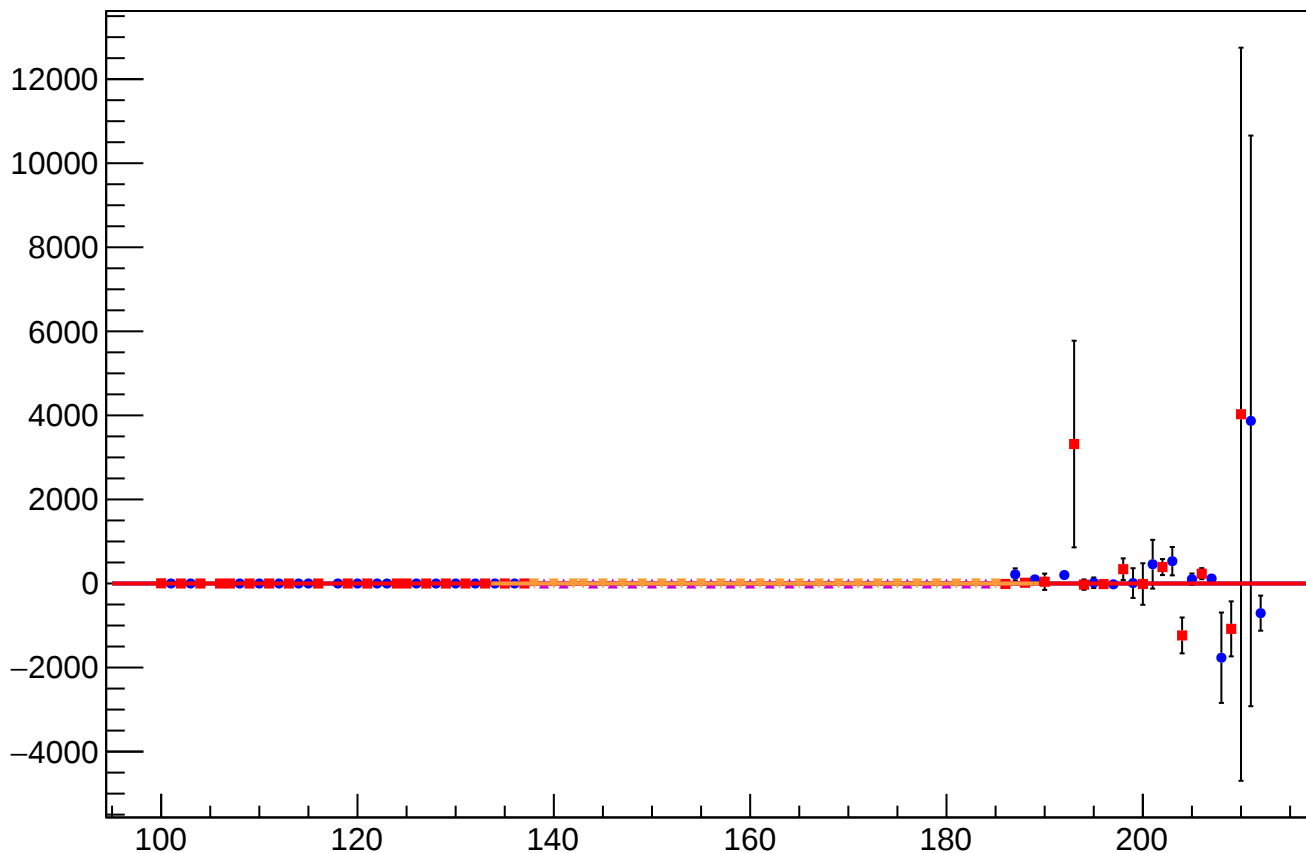
Right: 84.300+/-13.716 χ^2/NDF : 43.4/25

In: 0.002+/-0.028 χ^2/NDF :53.2/35

Out: 0.018+/-0.027 χ^2/NDF :87.9/37

All: 0.010+/-0.019 χ^2/NDF : 141.2/73

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 44.9/29$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 41.2/31$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

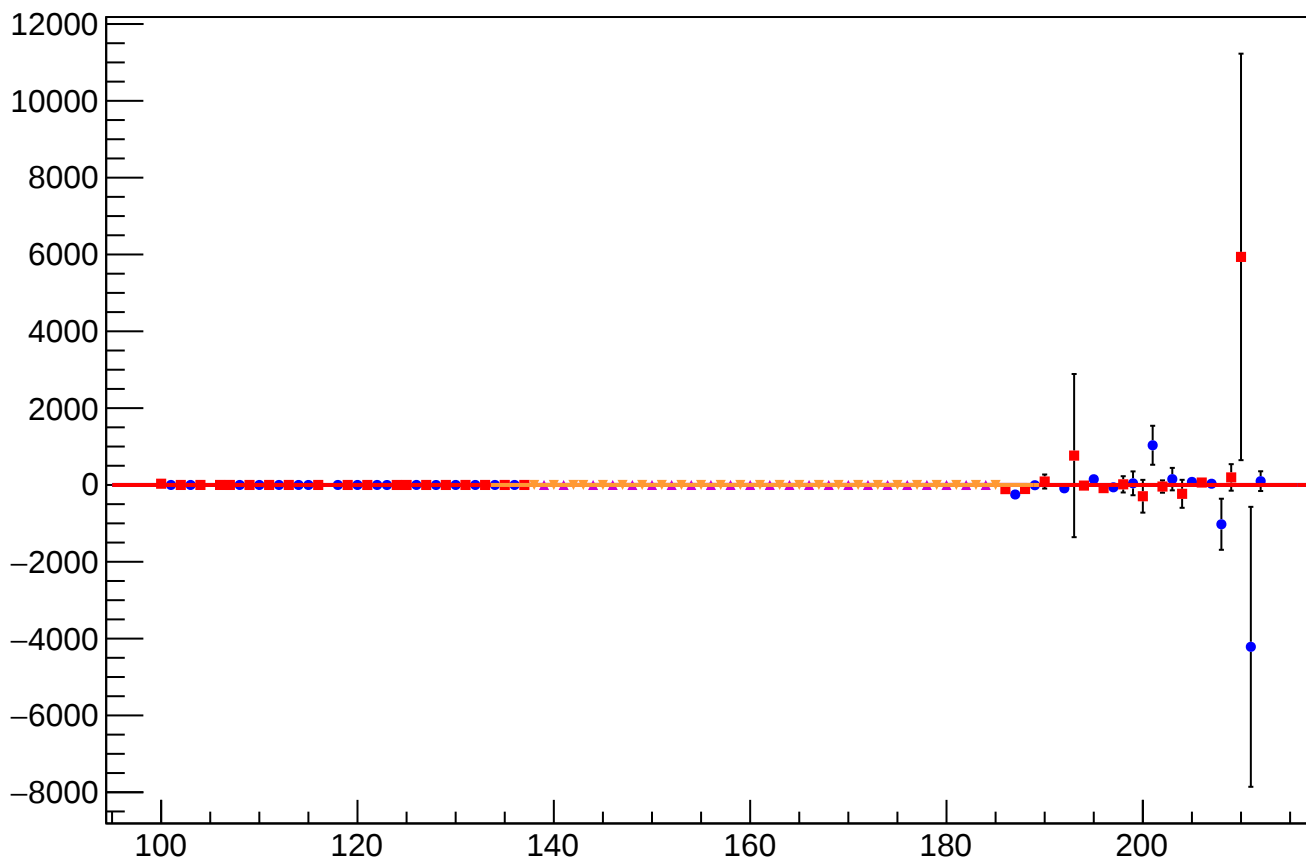
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 89.4/61$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 95.2/52$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 67.7/56$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 163.2/109$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 50.0/29$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 80.7/31$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

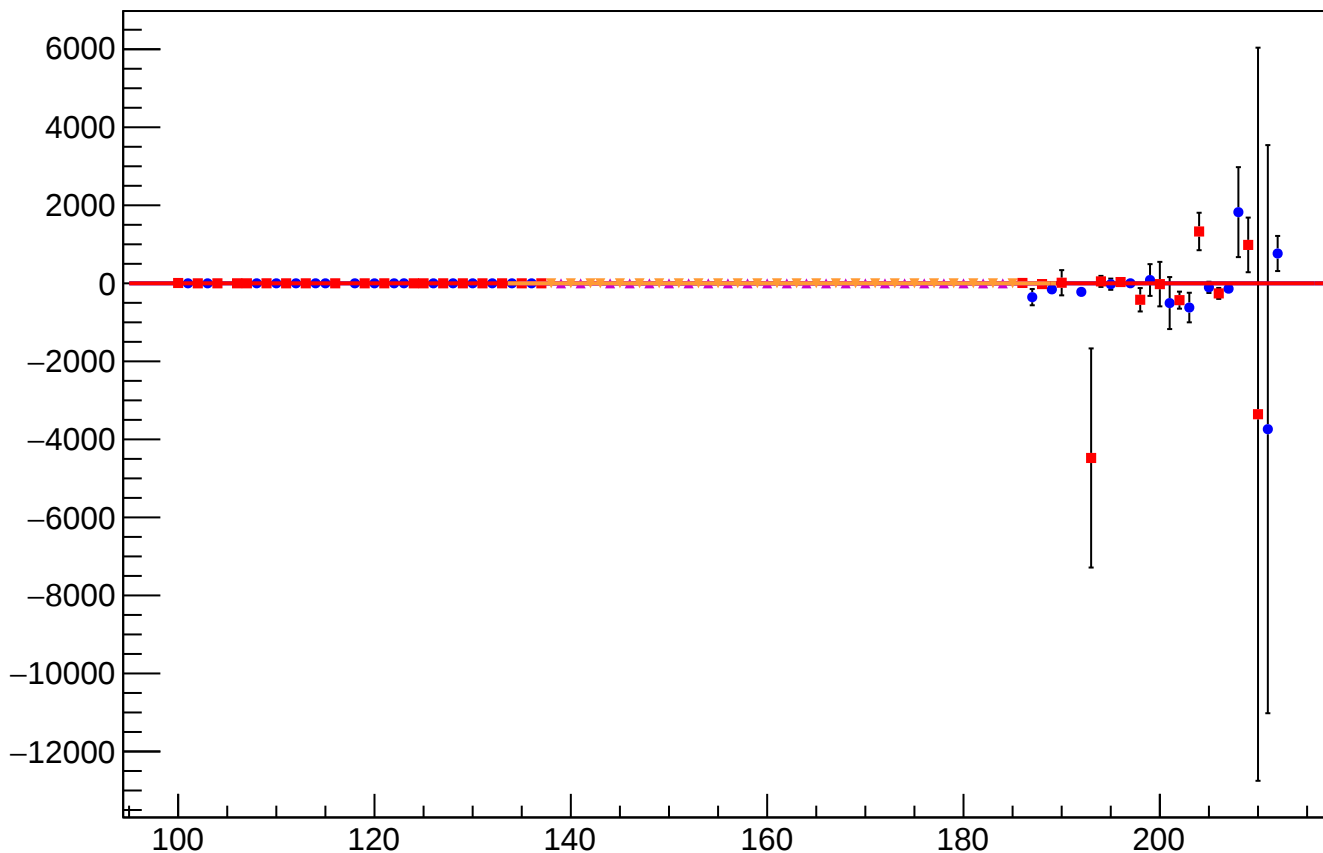
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 130.8/61$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 80.4/52$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 113.5/56$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 194.1/109$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 43.7/29

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 38.7/31

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

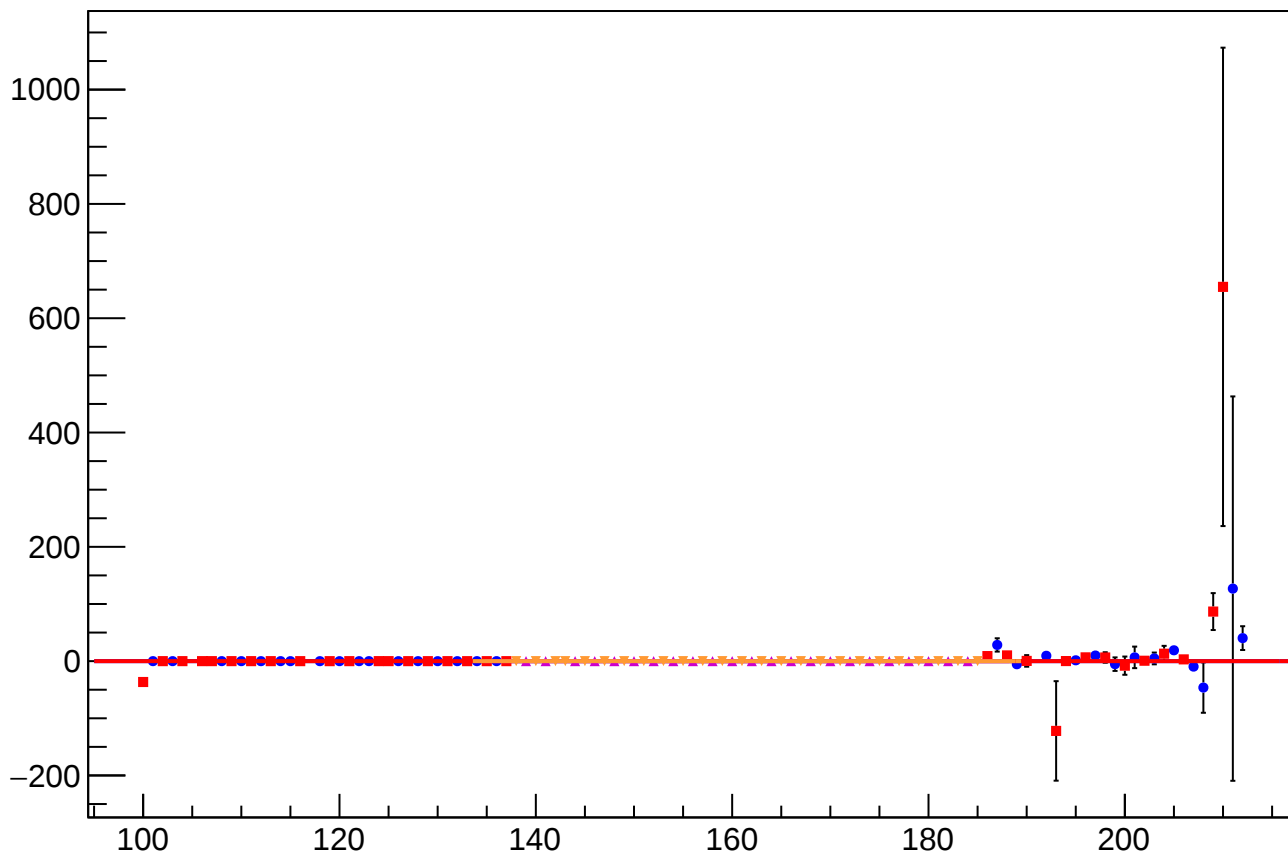
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 86.5/61

In: 0.056 $\pm$ 0.021 χ^2 /NDF:96.6/52

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:65.8/56

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 163.1/109

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001+/-0.002 χ^2/NDF : 67.9/29

Left Out: 0.008+/-0.001 χ^2/NDF : 26.3/24

Right Out: 0.001+/-0.002 χ^2/NDF : 10484.0/31

Left In: 0.009+/-0.001 χ^2/NDF : 15.0/22

Left: 0.009+/-0.001 χ^2/NDF : 41.4/47

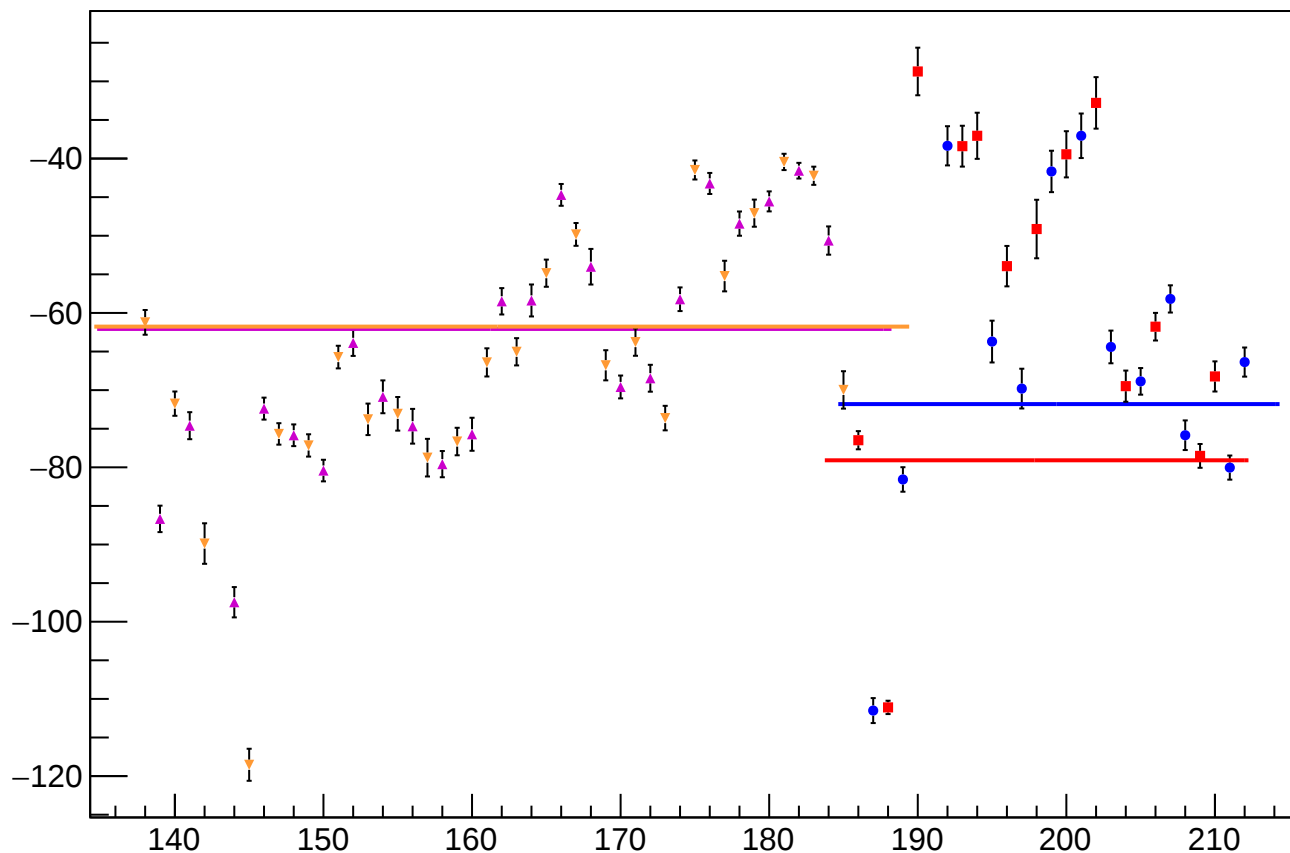
Right: 0.001+/-0.002 χ^2/NDF : 10551.9/61

In: 0.007+/-0.001 χ^2/NDF : 92.4/52

Out: 0.007+/-0.001 χ^2/NDF : 10519.2/56

All: 0.007+/-0.001 χ^2/NDF : 10611.8/109

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.808 $\pm$ 0.549 χ^2 /NDF: 1210.3/12

Left Out: -61.771 $\pm$ 0.334 χ^2 /NDF: 2504.9/23

Right Out: -79.090 $\pm$ 0.495 χ^2 /NDF: 2748.8/12

Left In: -62.073 $\pm$ 0.332 χ^2 /NDF: 2192.0/22

Left: -61.923 $\pm$ 0.236 χ^2 /NDF: 4697.3/46

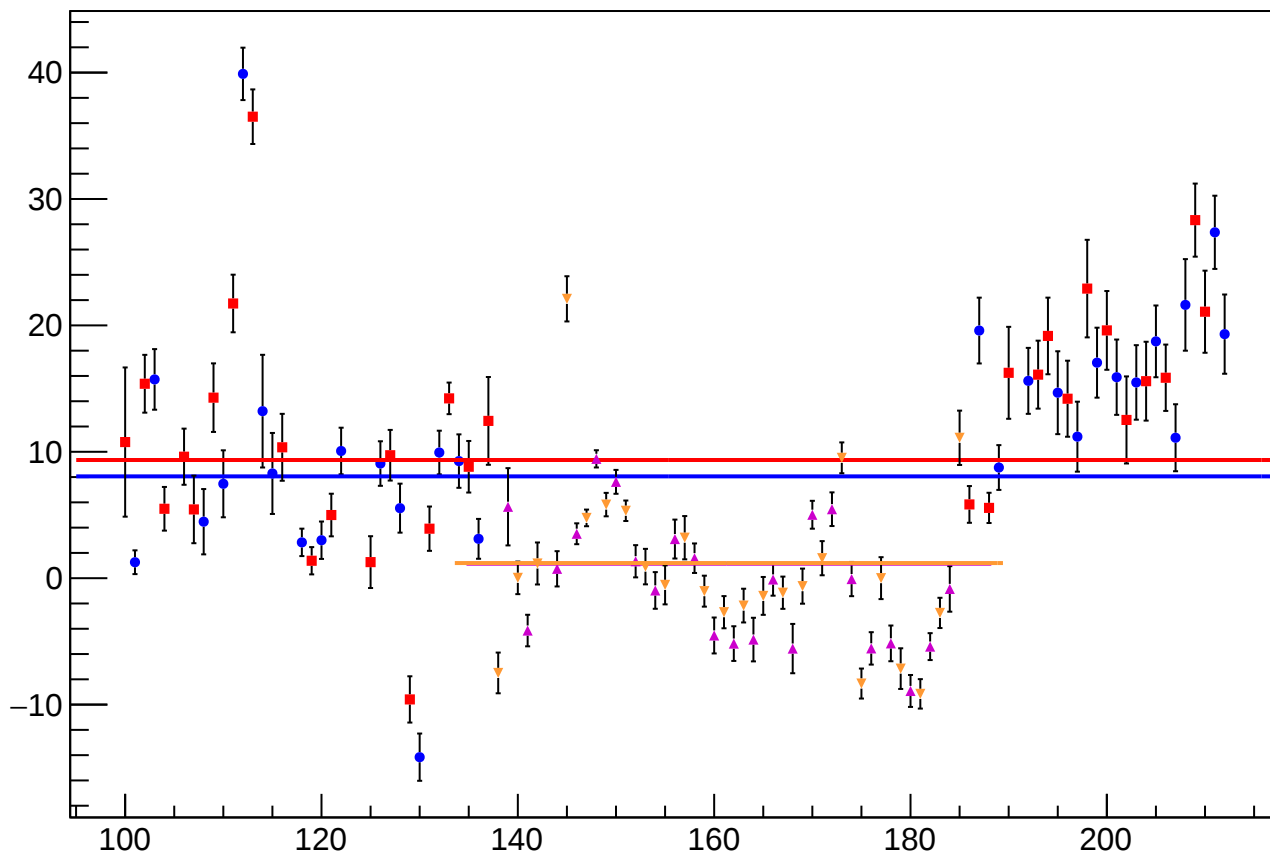
Right: -75.820 $\pm$ 0.368 χ^2 /NDF: 4056.2/25

In: -64.687 $\pm$ 0.284 χ^2 /NDF: 3632.7/35

Out: -67.183 $\pm$ 0.277 χ^2 /NDF: 6094.5/36

All: -65.968 $\pm$ 0.198 χ^2 /NDF: 9766.7/72

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.056 ± 0.373 $\chi^2/\text{NDF}: 636.5/28$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 9.351 ± 0.373 $\chi^2/\text{NDF}: 544.1/30$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

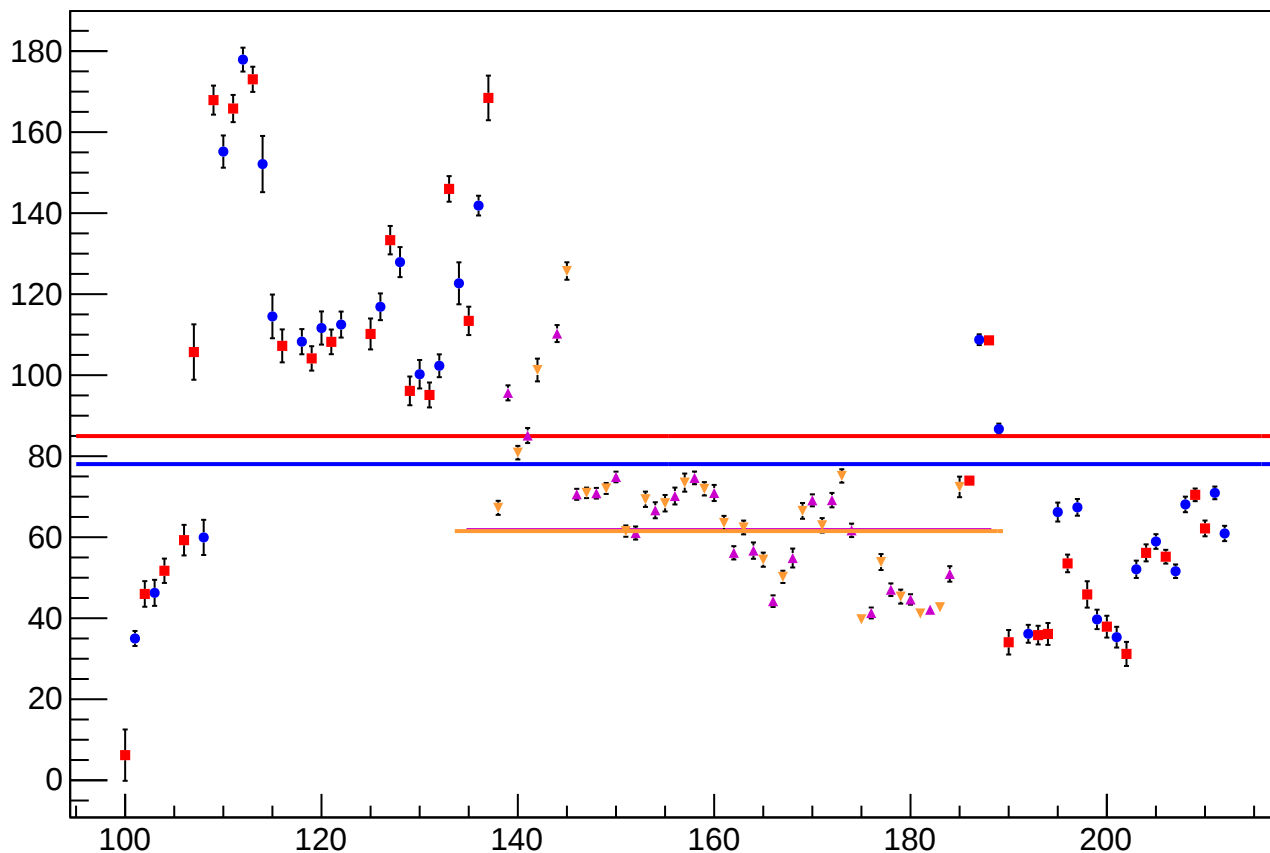
Right: 8.704 ± 0.264 $\chi^2/\text{NDF}: 1186.6/59$

In: 3.348 ± 0.211 $\chi^2/\text{NDF}: 1332.8/51$

Out: 3.762 ± 0.209 $\chi^2/\text{NDF}: 1398.1/54$

All: 3.556 ± 0.148 $\chi^2/\text{NDF}: 2732.8/106$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 78.049 $\pm$ 0.429 χ^2 /NDF: 5964.8/28

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF: 2606.0/23

Right Out: 84.966 $\pm$ 0.382 χ^2 /NDF: 7517.6/30

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

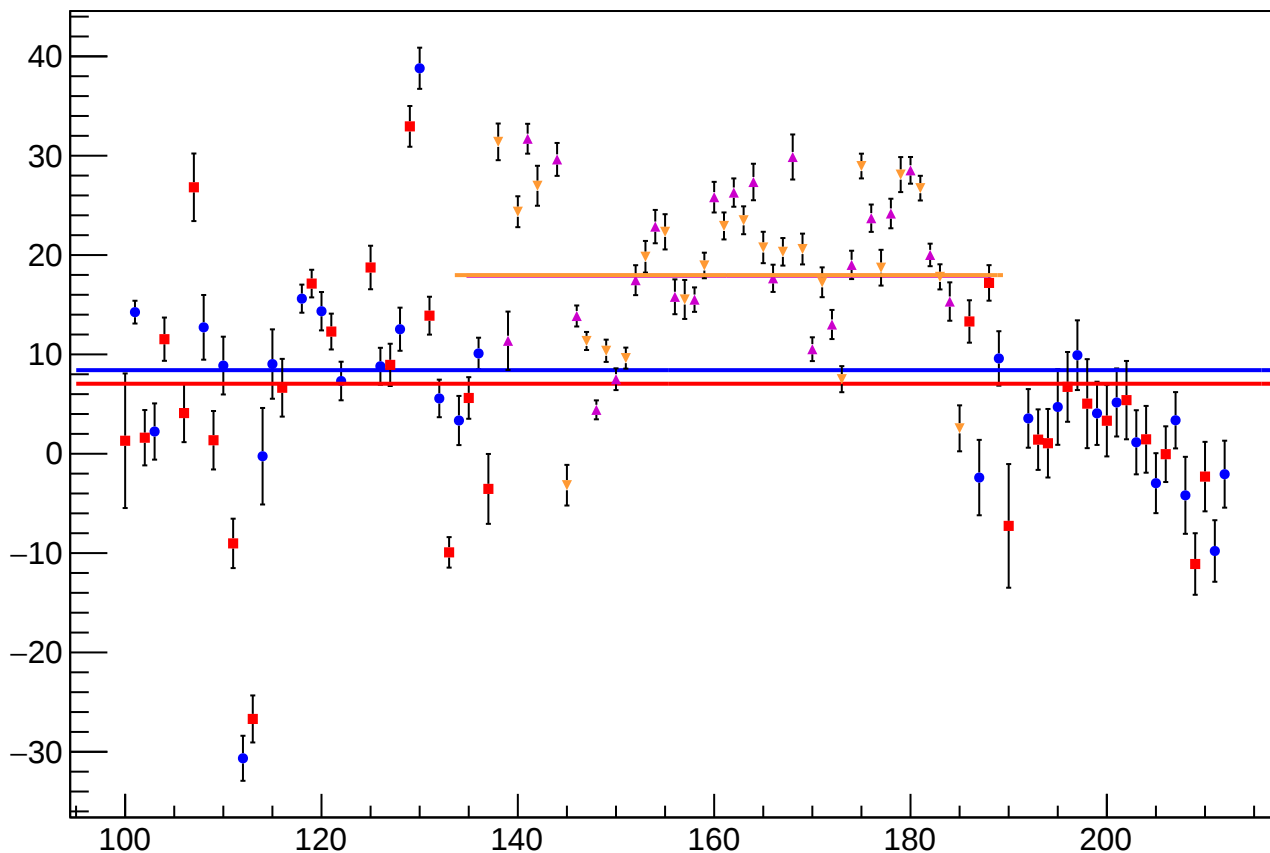
Right: 81.912 $\pm$ 0.285 χ^2 /NDF: 13627.4/59

In: 67.811 $\pm$ 0.262 χ^2 /NDF: 9288.0/51

Out: 71.627 $\pm$ 0.251 χ^2 /NDF: 12271.6/54

All: 69.801 $\pm$ 0.181 χ^2 /NDF: 21670.5/106

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.414 ± 0.436 χ^2/NDF : 686.8/28

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 7.047 ± 0.444 χ^2/NDF : 791.7/30

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

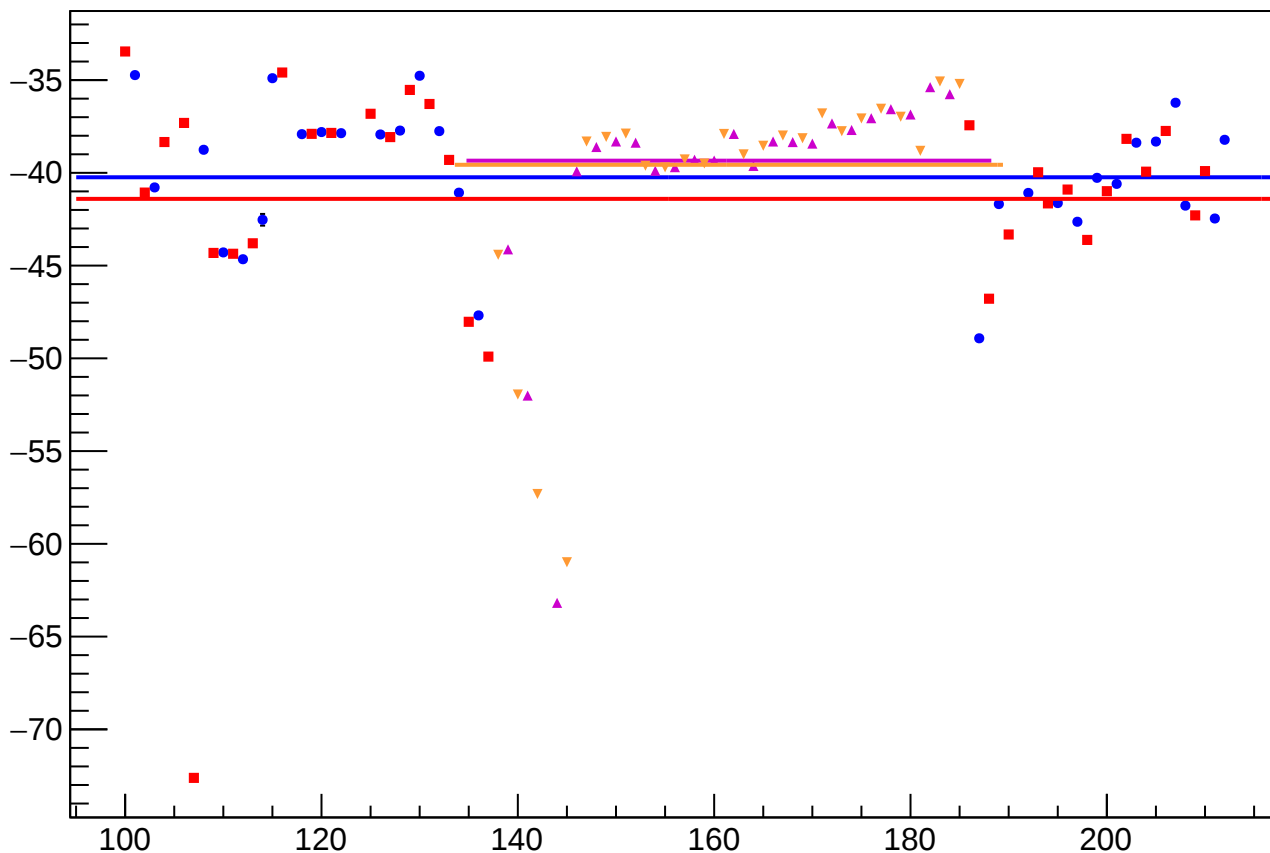
Right: 7.744 ± 0.311 χ^2/NDF : 1483.4/59

In: 14.966 ± 0.243 χ^2/NDF : 1741.3/51

Out: 14.701 ± 0.243 χ^2/NDF : 1889.9/54

All: 14.833 ± 0.172 χ^2/NDF : 3631.8/106

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.239 ± 0.022 $\chi^2/\text{NDF}: 29841.9/28$

Left Out: -39.566 ± 0.014 $\chi^2/\text{NDF}: 141198.7/23$

Right Out: -41.403 ± 0.022 $\chi^2/\text{NDF}: 68679.9/30$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.454 ± 0.010 $\chi^2/\text{NDF}: 257946.5/46$

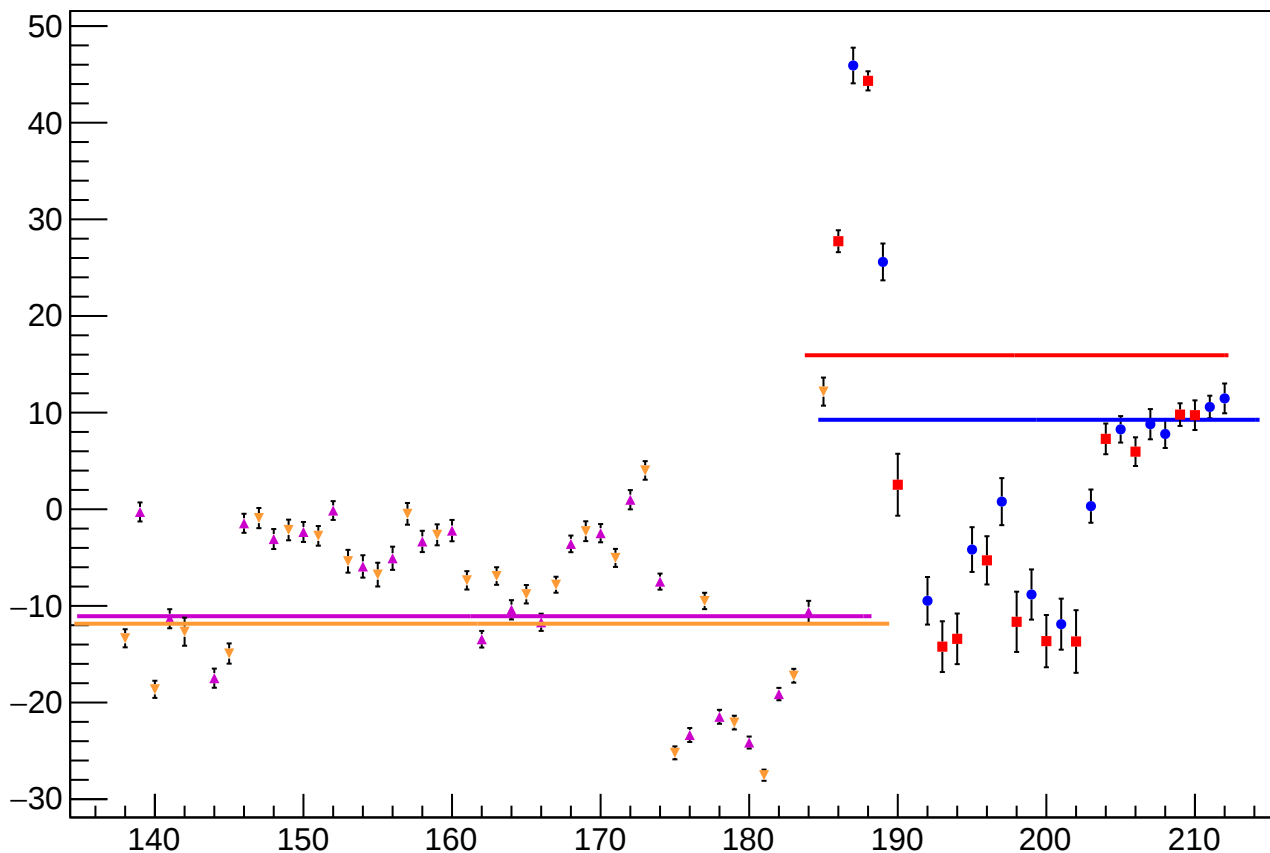
Right: -40.821 ± 0.015 $\chi^2/\text{NDF}: 99981.1/59$

In: -39.599 ± 0.011 $\chi^2/\text{NDF}: 147690.6/51$

Out: -40.097 ± 0.012 $\chi^2/\text{NDF}: 215048.0/54$

All: -39.846 ± 0.008 $\chi^2/\text{NDF}: 363670.7/106$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



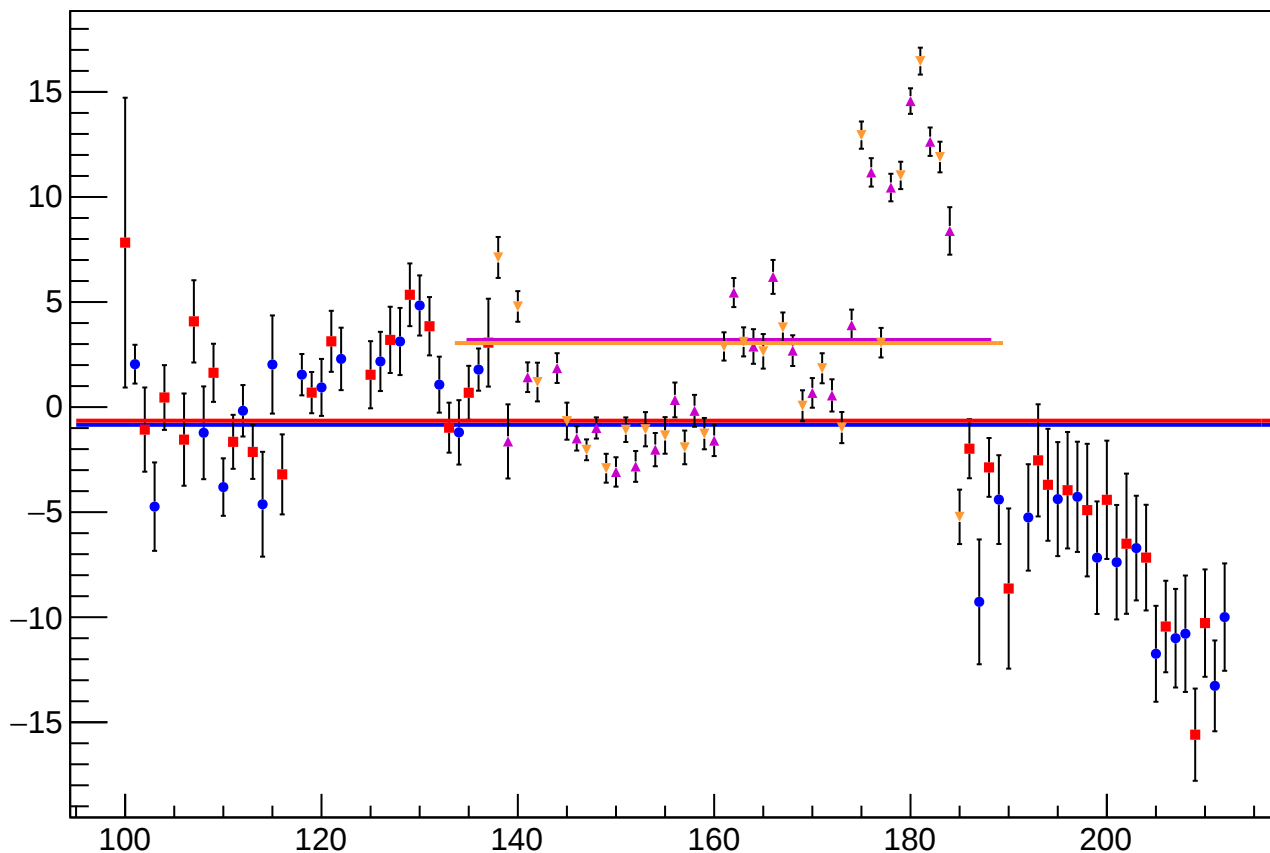
Right In: 9.258 ± 0.483 $\chi^2/\text{NDF}: 716.6/12$
 Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$
 Right Out: 15.936 ± 0.462 $\chi^2/\text{NDF}: 1677.9/12$
 Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$
 Right: 12.743 ± 0.334 $\chi^2/\text{NDF}: 2494.4/25$

In: -8.390 ± 0.175 $\chi^2/\text{NDF}: 4361.2/35$
 Out: -7.939 ± 0.173 $\chi^2/\text{NDF}: 7524.8/36$

All: -8.162 ± 0.123 $\chi^2/\text{NDF}: 11889.3/72$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.842 ± 0.307 χ^2/NDF : 204.0/28

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.647 ± 0.308 χ^2/NDF : 167.2/30

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

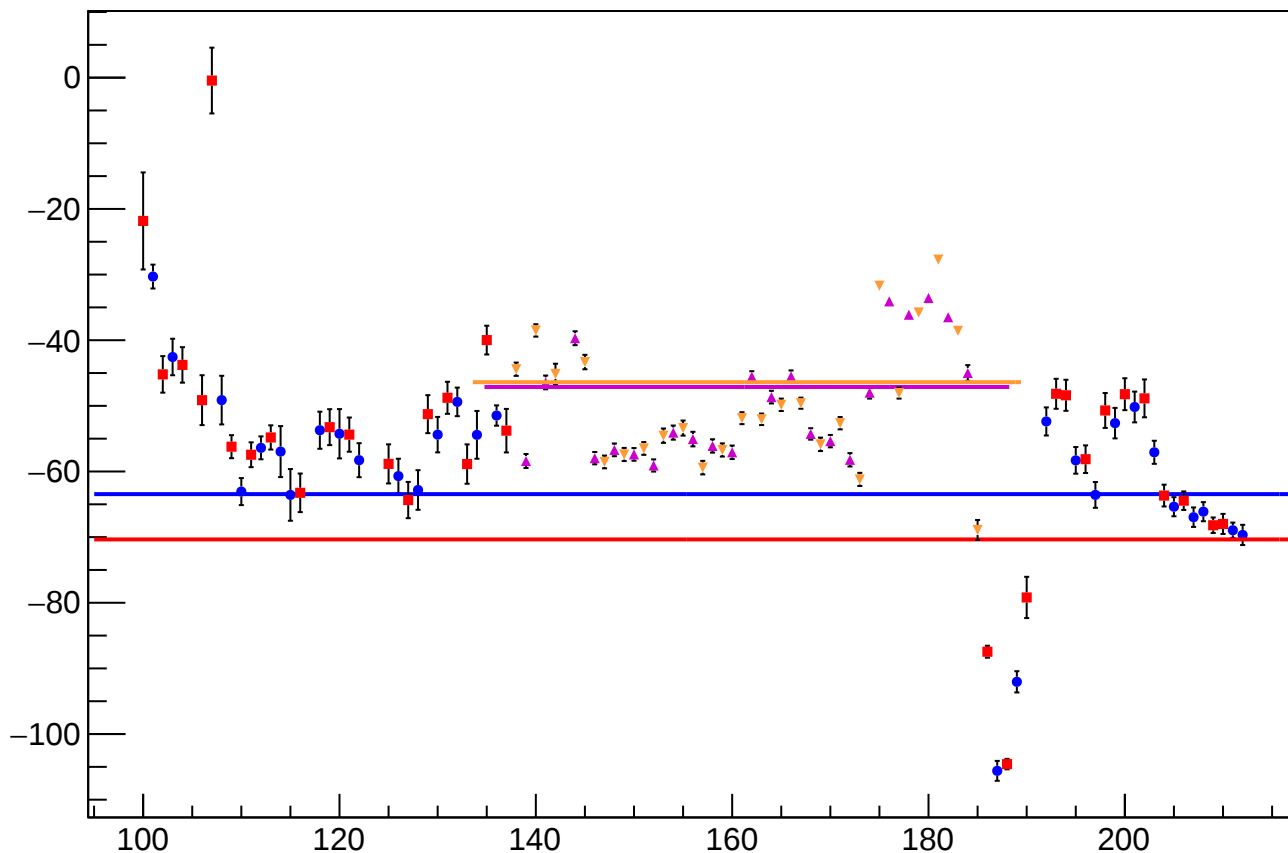
Right: -0.745 ± 0.217 χ^2/NDF : 371.4/59

In: 2.416 ± 0.135 χ^2/NDF : 1638.7/51

Out: 2.356 ± 0.133 χ^2/NDF : 1741.2/54

All: 2.385 ± 0.095 χ^2/NDF : 3379.9/106

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.449 ± 0.367 χ^2/NDF : 1800.0/28

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -70.351 ± 0.342 χ^2/NDF : 3732.5/30

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

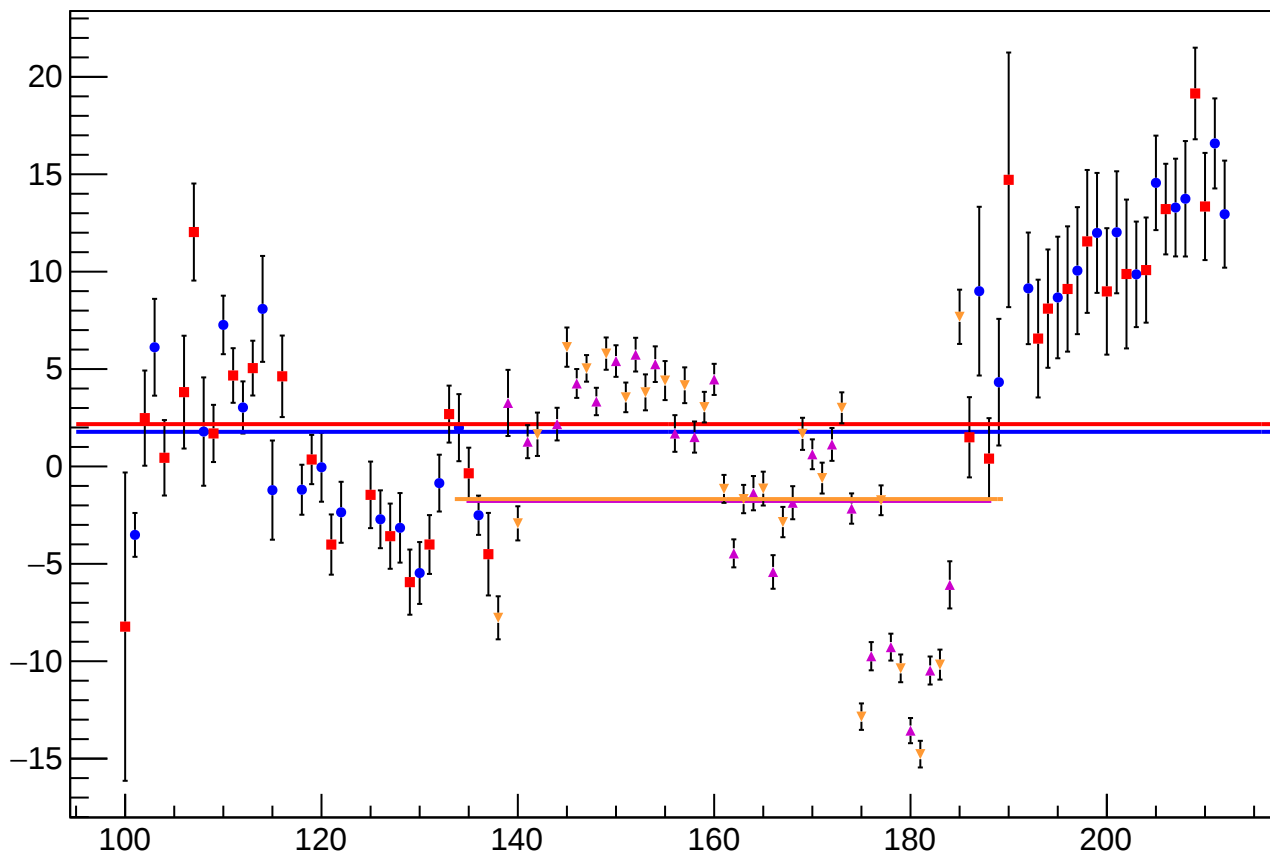
Right: -67.142 ± 0.250 χ^2/NDF : 5721.6/59

In: -50.495 ± 0.167 χ^2/NDF : 5884.4/51

Out: -51.880 ± 0.164 χ^2/NDF : 10796.7/54

All: -51.200 ± 0.117 χ^2/NDF : 16716.3/106

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.777 ± 0.349 χ^2/NDF : 293.0/28

Left Out: -1.675 ± 0.167 χ^2/NDF : 1483.8/23

Right Out: 2.172 ± 0.355 χ^2/NDF : 245.6/30

Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.723 ± 0.119 χ^2/NDF : 2735.2/46

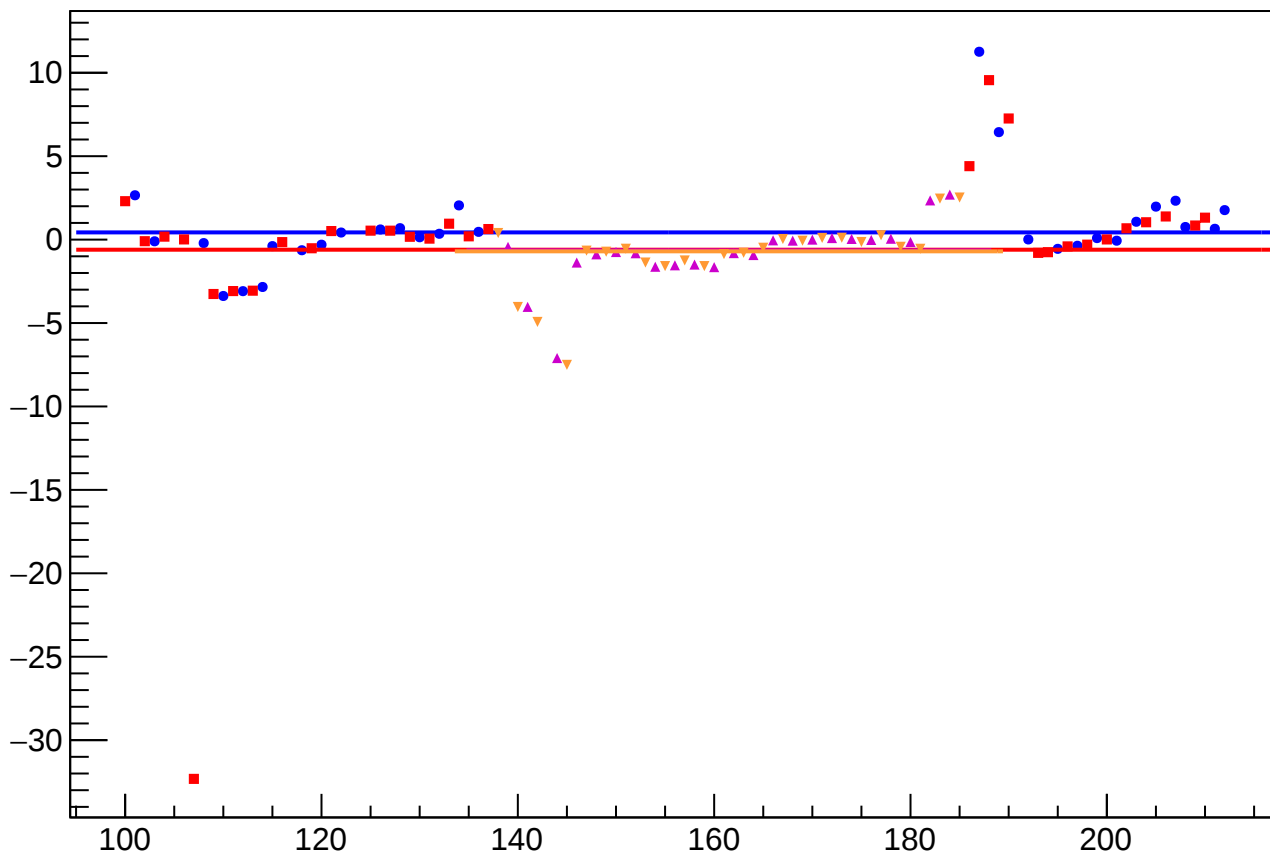
Right: 1.971 ± 0.249 χ^2/NDF : 539.2/59

In: -1.096 ± 0.152 χ^2/NDF : 1628.2/51

Out: -0.979 ± 0.151 χ^2/NDF : 1825.4/54

All: -1.037 ± 0.107 χ^2/NDF : 3453.9/106

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.432 ± 0.017 χ^2/NDF : 10079.5/28

Left Out: -0.702 ± 0.008 χ^2/NDF : 53834.9/23

Right Out: -0.605 ± 0.018 χ^2/NDF : 93792.8/30

Left In: -0.644 ± 0.008 χ^2/NDF : 44169.2/22

Left: -0.673 ± 0.005 χ^2/NDF : 98032.6/46

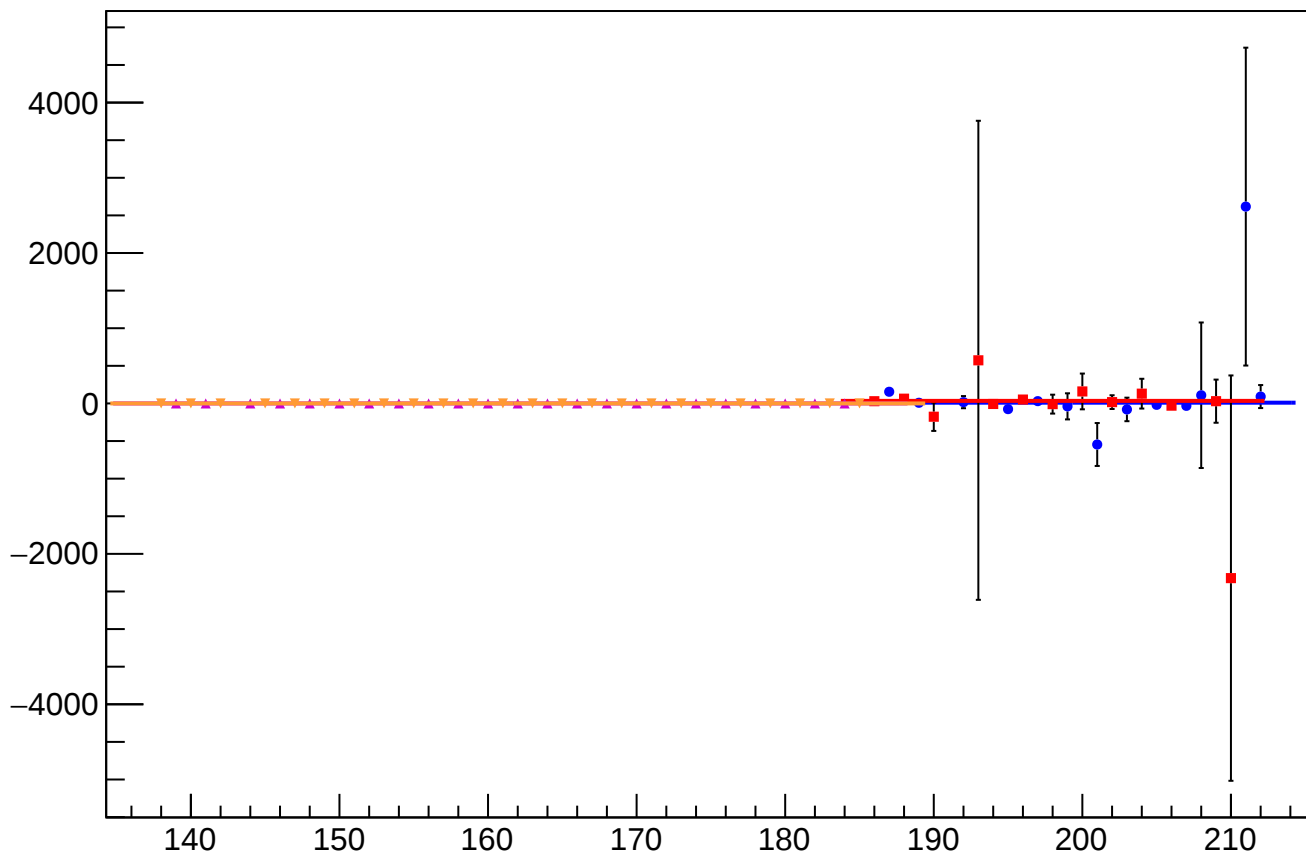
Right: -0.082 ± 0.012 χ^2/NDF : 105621.6/59

In: -0.470 ± 0.007 χ^2/NDF : 57432.9/51

Out: -0.686 ± 0.007 χ^2/NDF : 147653.1/54

All: -0.578 ± 0.005 χ^2/NDF : 205562.3/106

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.963 ± 15.140 χ^2/NDF : 21.2/12

Left Out: -0.037 ± 0.018 χ^2/NDF : 35.4/23

Right Out: 33.957 ± 9.671 χ^2/NDF : 7.3/12

Left In: -0.010 ± 0.018 χ^2/NDF : 35.1/22

Left: -0.024 ± 0.013 χ^2/NDF : 71.7/46

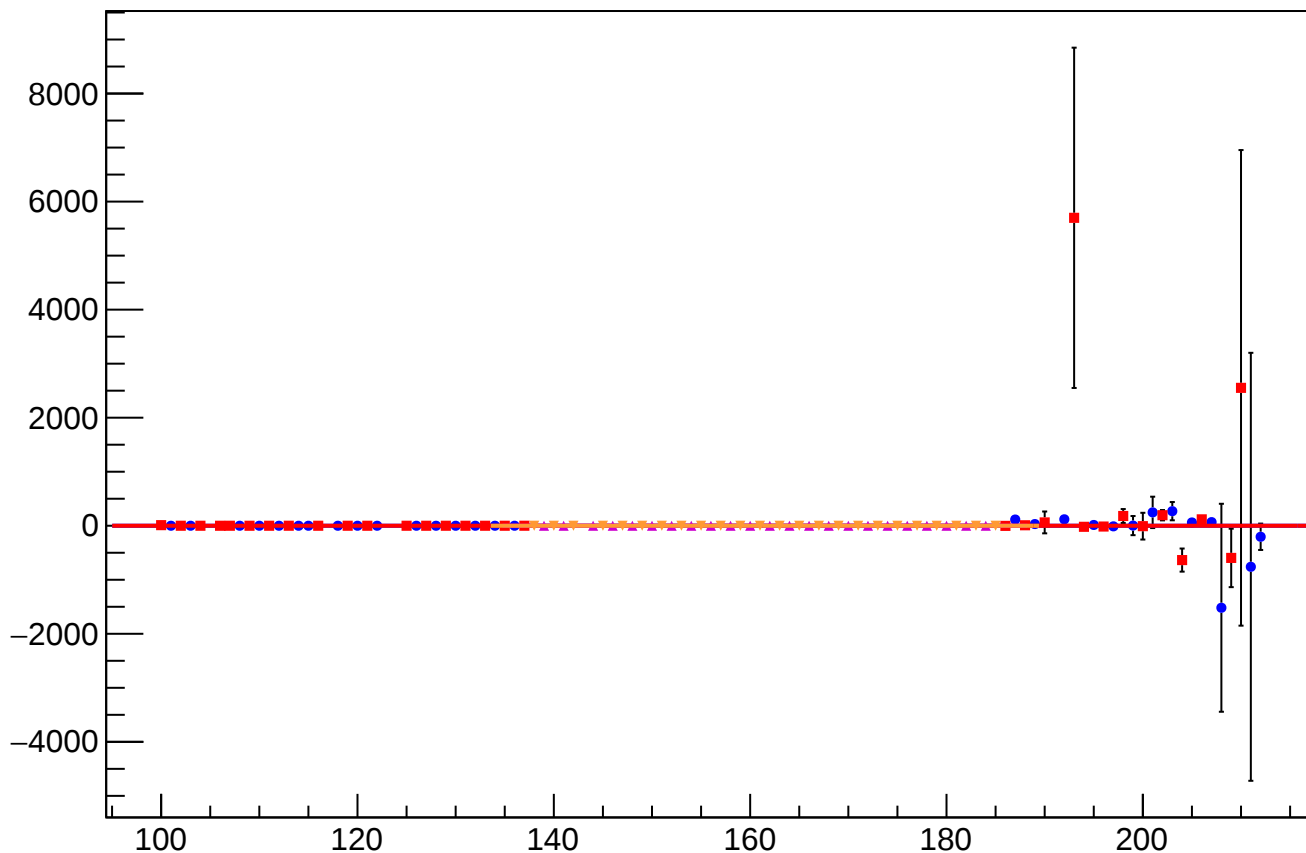
Right: 27.004 ± 8.150 χ^2/NDF : 30.3/25

In: -0.010 ± 0.018 χ^2/NDF : 56.8/35

Out: -0.037 ± 0.018 χ^2/NDF : 55.1/36

All: -0.024 ± 0.013 χ^2/NDF : 113.0/72

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 χ^2/NDF : 24.9/28

Left Out: -0.073 ± 0.014 χ^2/NDF : 27.8/23

Right Out: -0.088 ± 0.025 χ^2/NDF : 36.3/30

Left In: -0.064 ± 0.014 χ^2/NDF : 41.1/22

Left: -0.068 ± 0.010 χ^2/NDF : 69.1/46

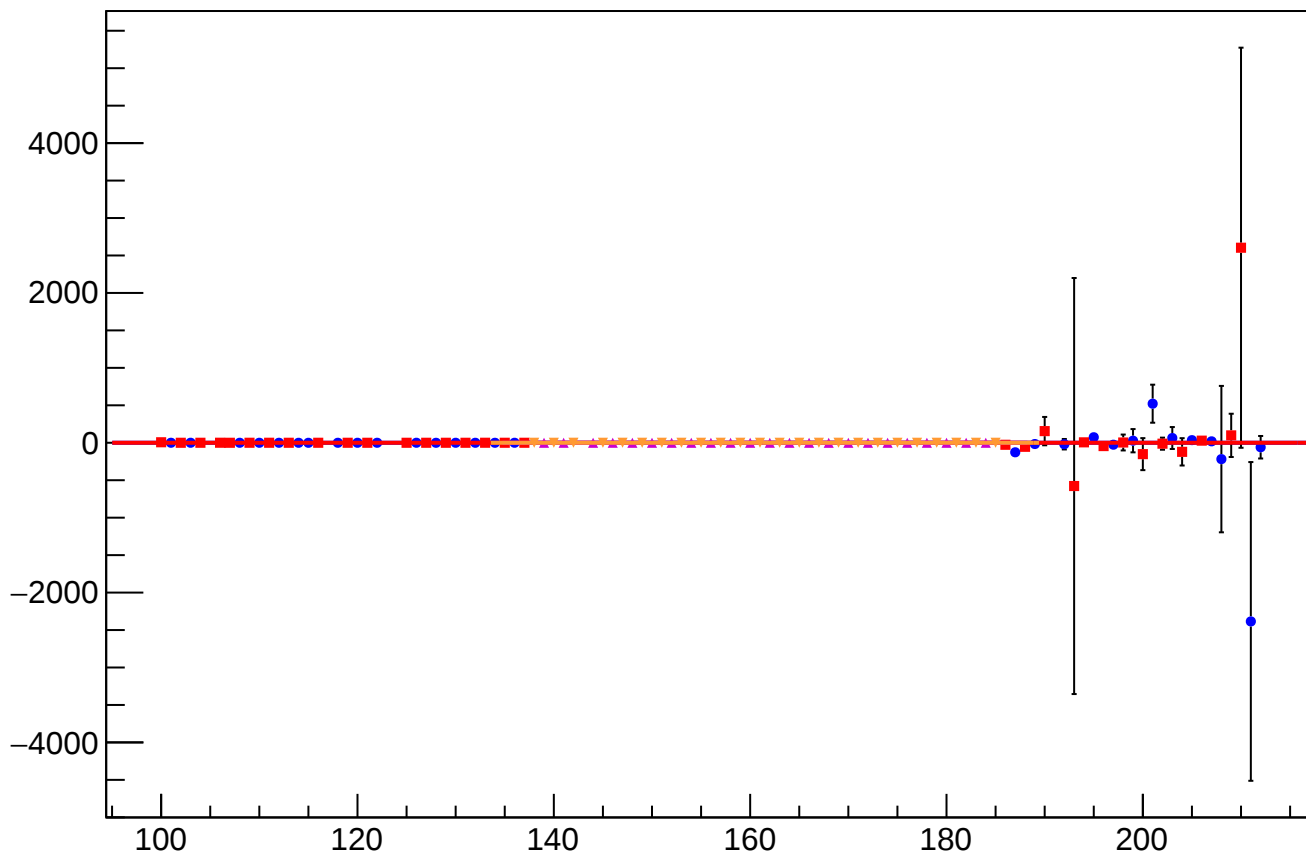
Right: -0.048 ± 0.017 χ^2/NDF : 65.9/59

In: -0.050 ± 0.012 χ^2/NDF : 69.3/51

Out: -0.076 ± 0.012 χ^2/NDF : 64.4/54

All: -0.063 ± 0.009 χ^2/NDF : 136.0/106

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 31.6/28

Left Out: 0.035 $\pm$ 0.018 χ^2 /NDF:32.2/23

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 31.7/30

Left In: -0.009 $\pm$ 0.018 χ^2 /NDF:36.8/22

Left: 0.013 $\pm$ 0.013 χ^2 /NDF: 72.0/46

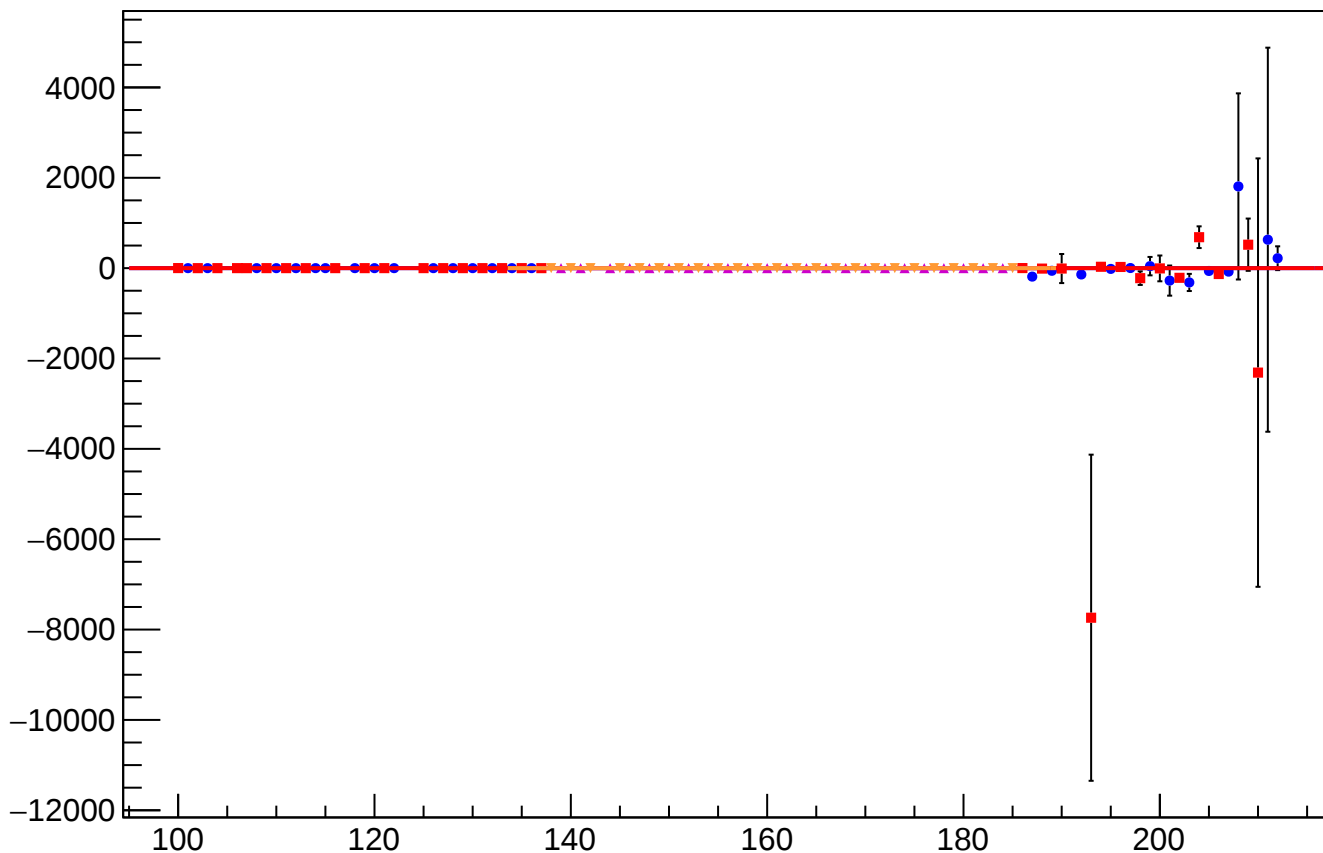
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 63.4/59

In: -0.005 $\pm$ 0.017 χ^2 /NDF:68.7/51

Out: 0.035 $\pm$ 0.017 χ^2 /NDF:63.9/54

All: 0.015 $\pm$ 0.012 χ^2 /NDF: 135.5/106

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.027 χ^2/NDF : 26.2/28

Left Out: 0.086+/-0.016 χ^2/NDF : 27.7/23

Right Out: 0.105+/-0.029 χ^2/NDF : 31.8/30

Left In: 0.070+/-0.016 χ^2/NDF : 44.8/22

Left: 0.078+/-0.011 χ^2/NDF : 73.1/46

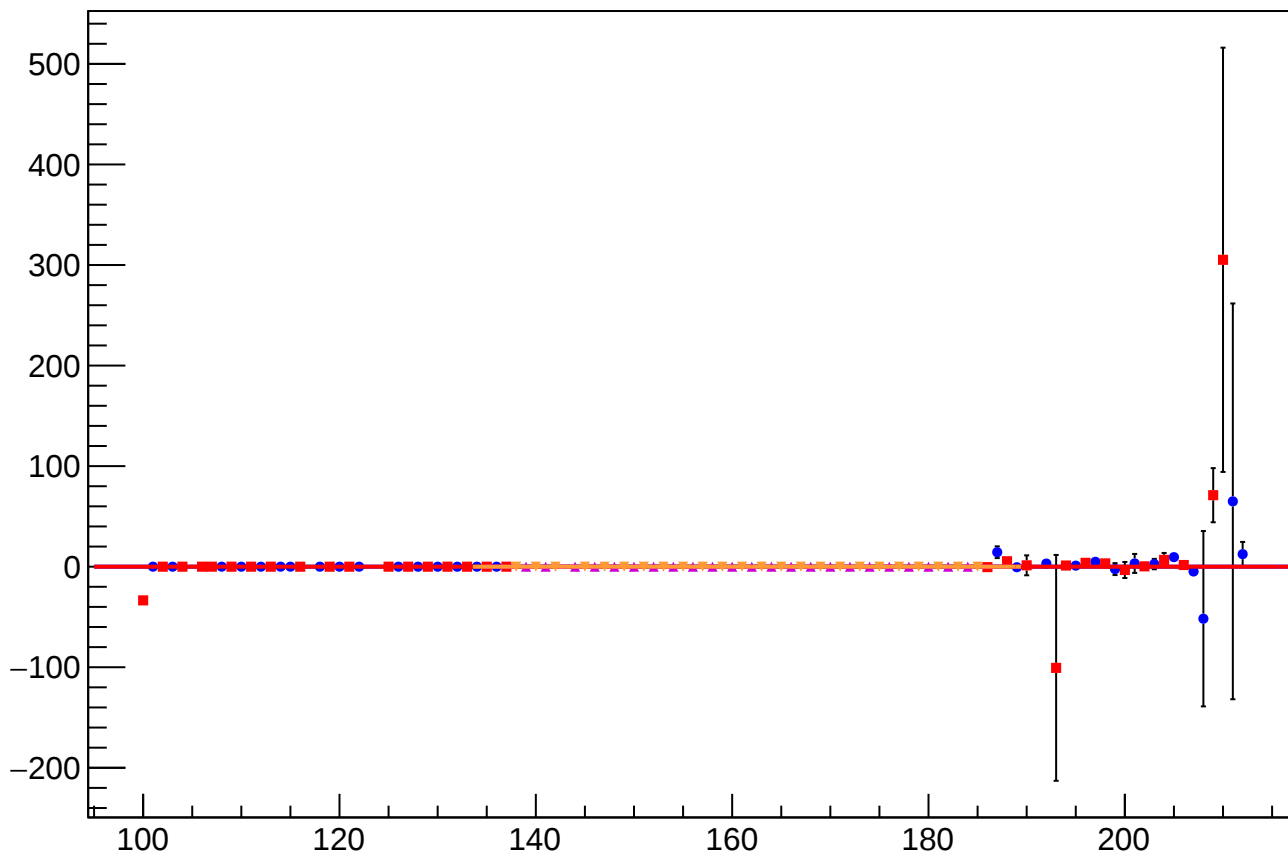
Right: 0.054+/-0.020 χ^2/NDF : 64.0/59

In: 0.053+/-0.014 χ^2/NDF : 74.8/51

Out: 0.091+/-0.014 χ^2/NDF : 59.8/54

All: 0.072+/-0.010 χ^2/NDF : 138.1/106

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 47.8/28

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26530.6/30

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

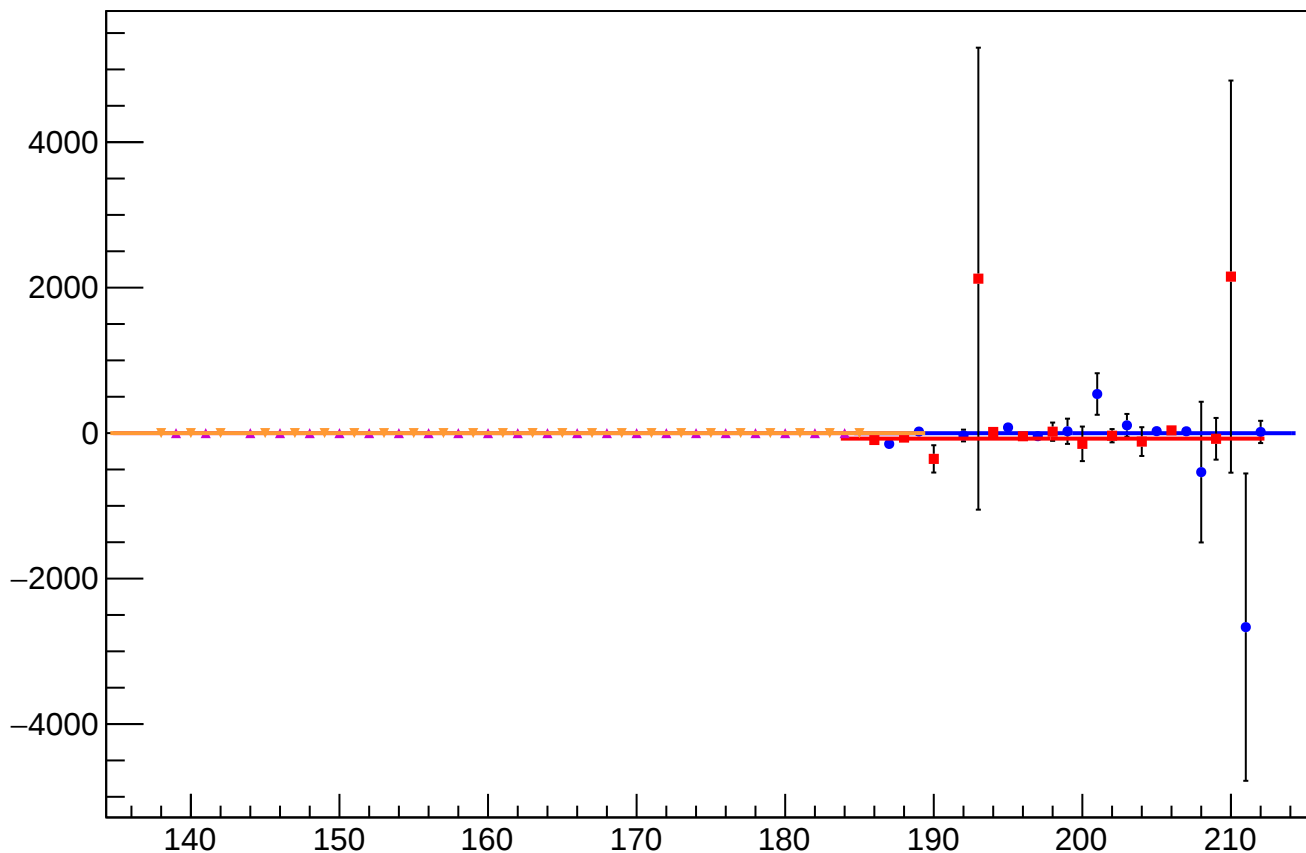
Right: -0.006 ± 0.001 χ^2/NDF : 26578.5/59

In: -0.001 ± 0.001 χ^2/NDF : 81.8/51

Out: -0.001 ± 0.001 χ^2/NDF : 26569.3/54

All: -0.001 ± 0.000 χ^2/NDF : 26651.1/106

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.189 ± 15.135 $\chi^2/\text{NDF}: 21.8/12$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -75.530 ± 9.673 $\chi^2/\text{NDF}: 16.0/12$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

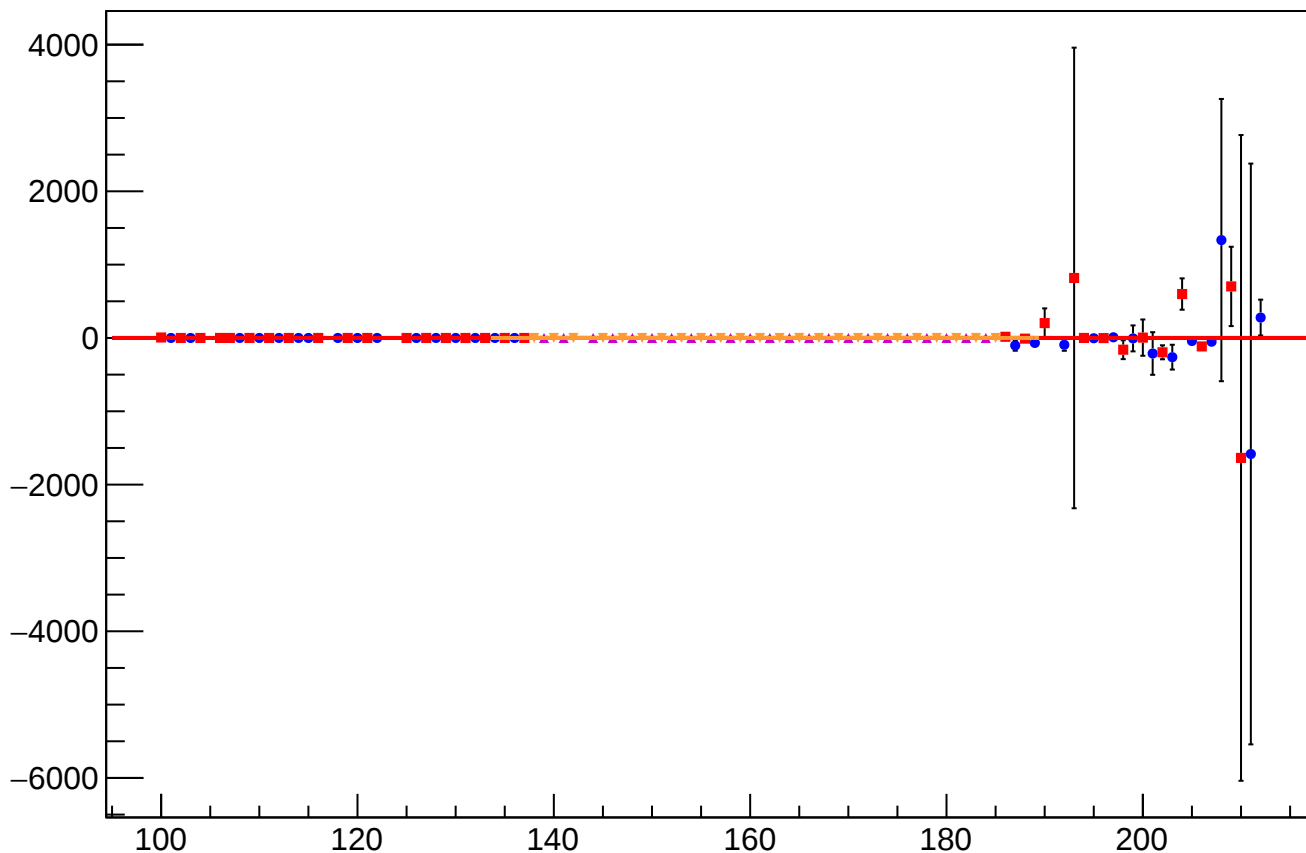
Right: -53.970 ± 8.151 $\chi^2/\text{NDF}: 54.9/25$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 56.9/35$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 114.2/36$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 174.0/72$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 39.2/28

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 49.5/30

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

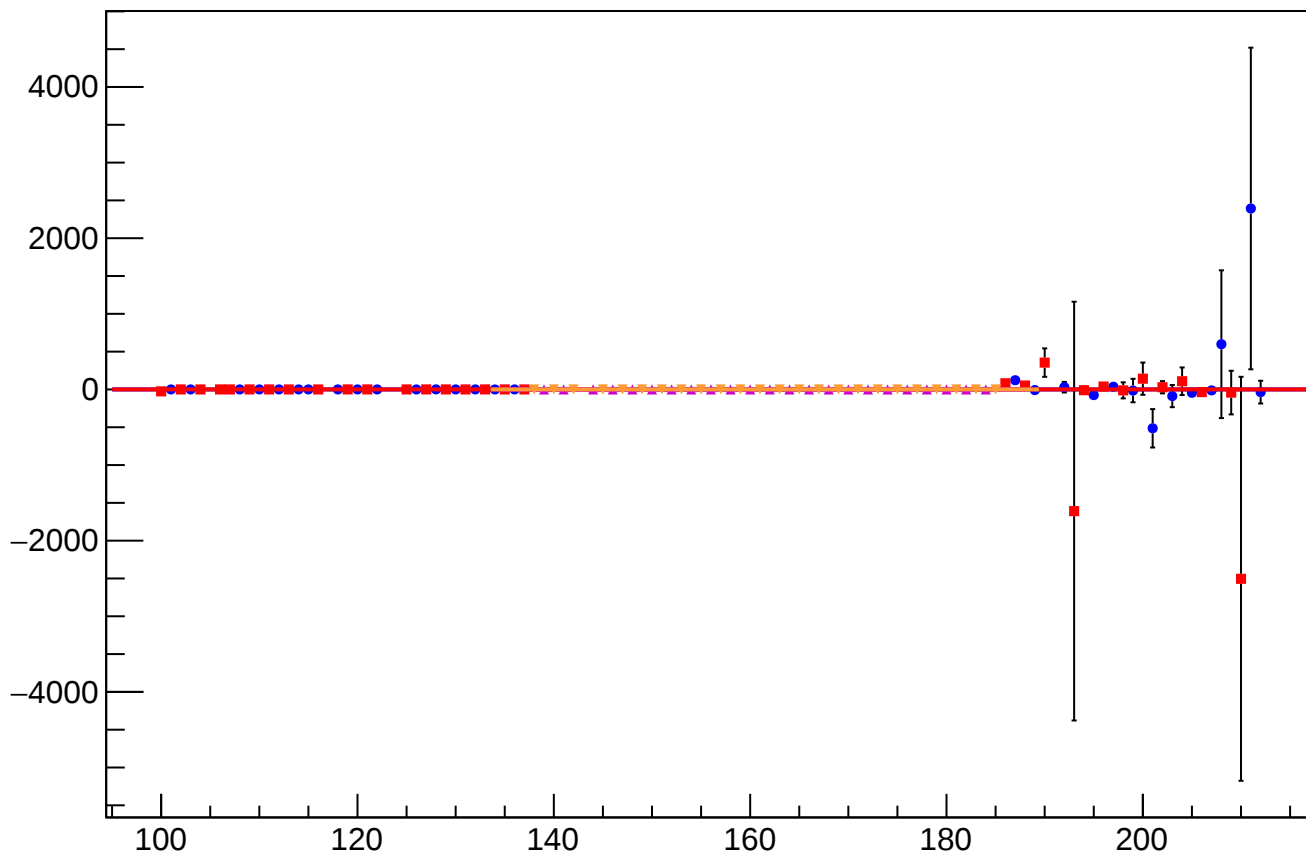
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 89.5/59

In: 0.006 $\pm$ 0.012 χ^2 /NDF:88.8/51

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:81.9/54

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 170.7/106

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157+/-0.043 χ^2/NDF : 51.9/28

Left Out: 0.048+/-0.018 χ^2/NDF : 35.4/23

Right Out: 0.197+/-0.045 χ^2/NDF : 109.5/30

Left In: 0.020+/-0.018 χ^2/NDF : 35.8/22

Left: 0.034+/-0.013 χ^2/NDF : 72.4/46

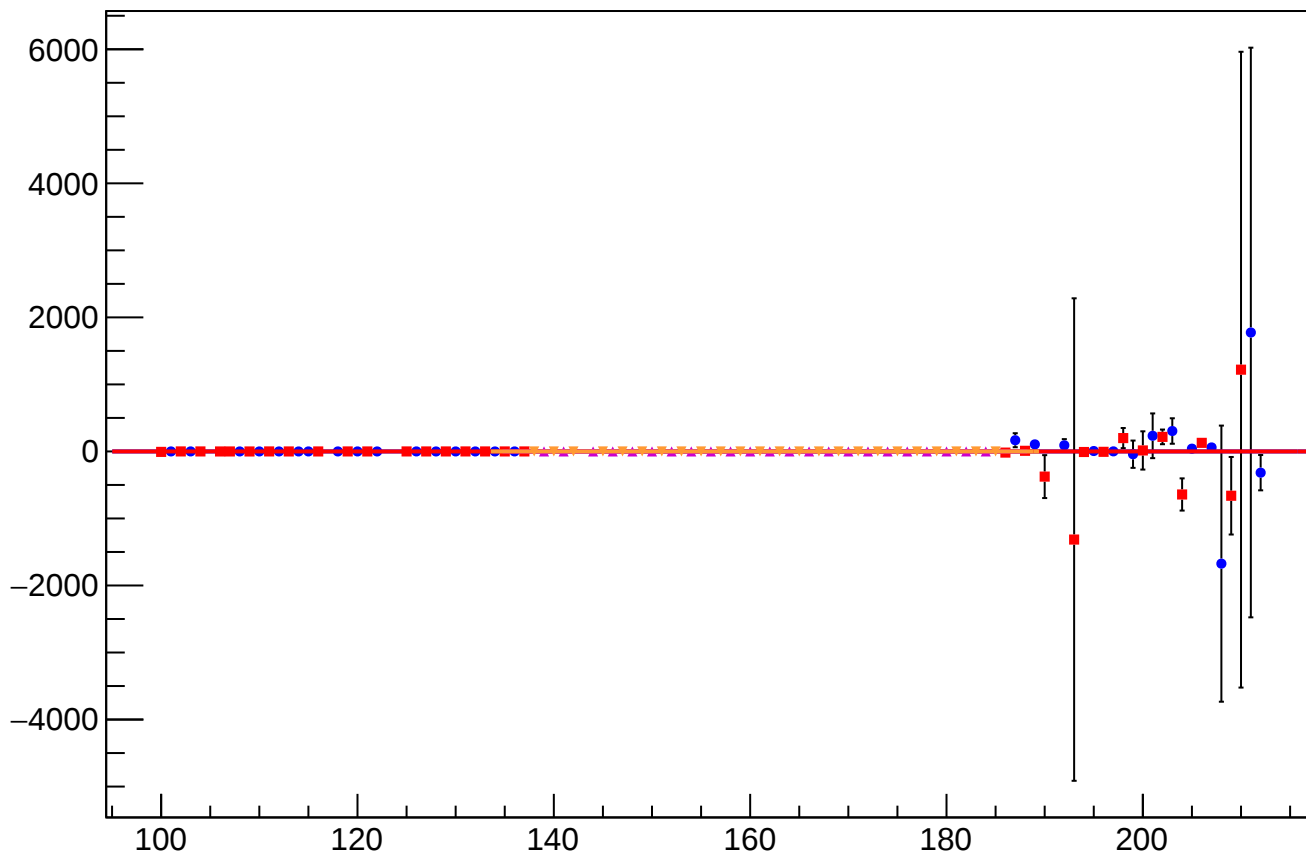
Right: 0.176+/-0.031 χ^2/NDF : 161.8/59

In: 0.040+/-0.017 χ^2/NDF : 96.3/51

Out: 0.068+/-0.017 χ^2/NDF : 154.4/54

All: 0.054+/-0.012 χ^2/NDF : 252.1/106

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 39.1/28

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 46.0/30

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

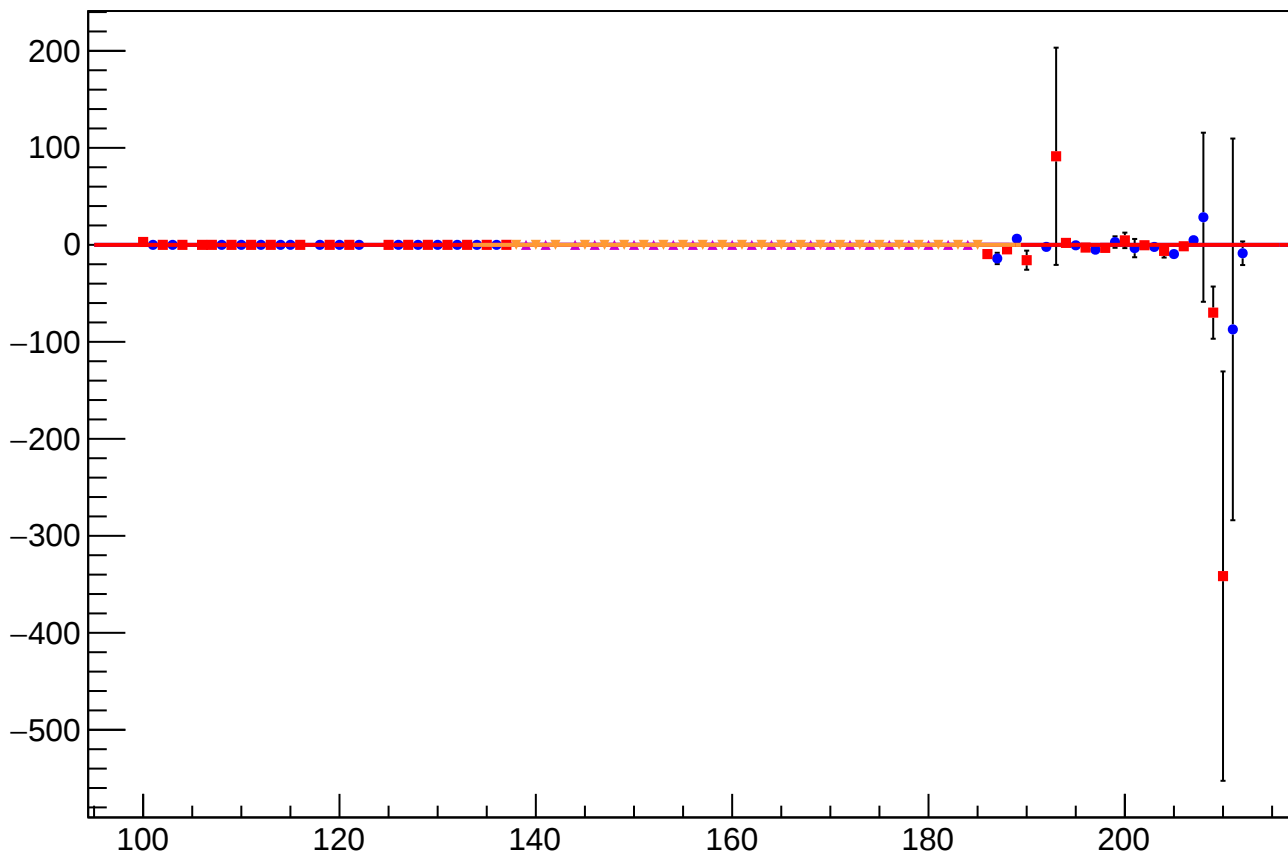
Right: -0.027 ± 0.020 χ^2/NDF : 86.0/59

In: 0.002 ± 0.014 χ^2/NDF : 89.5/51

Out: 0.005 ± 0.014 χ^2/NDF : 83.6/54

All: 0.004 ± 0.010 χ^2/NDF : 173.1/106

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 58.4/28

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.0/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 224.2/30

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 69.4/46

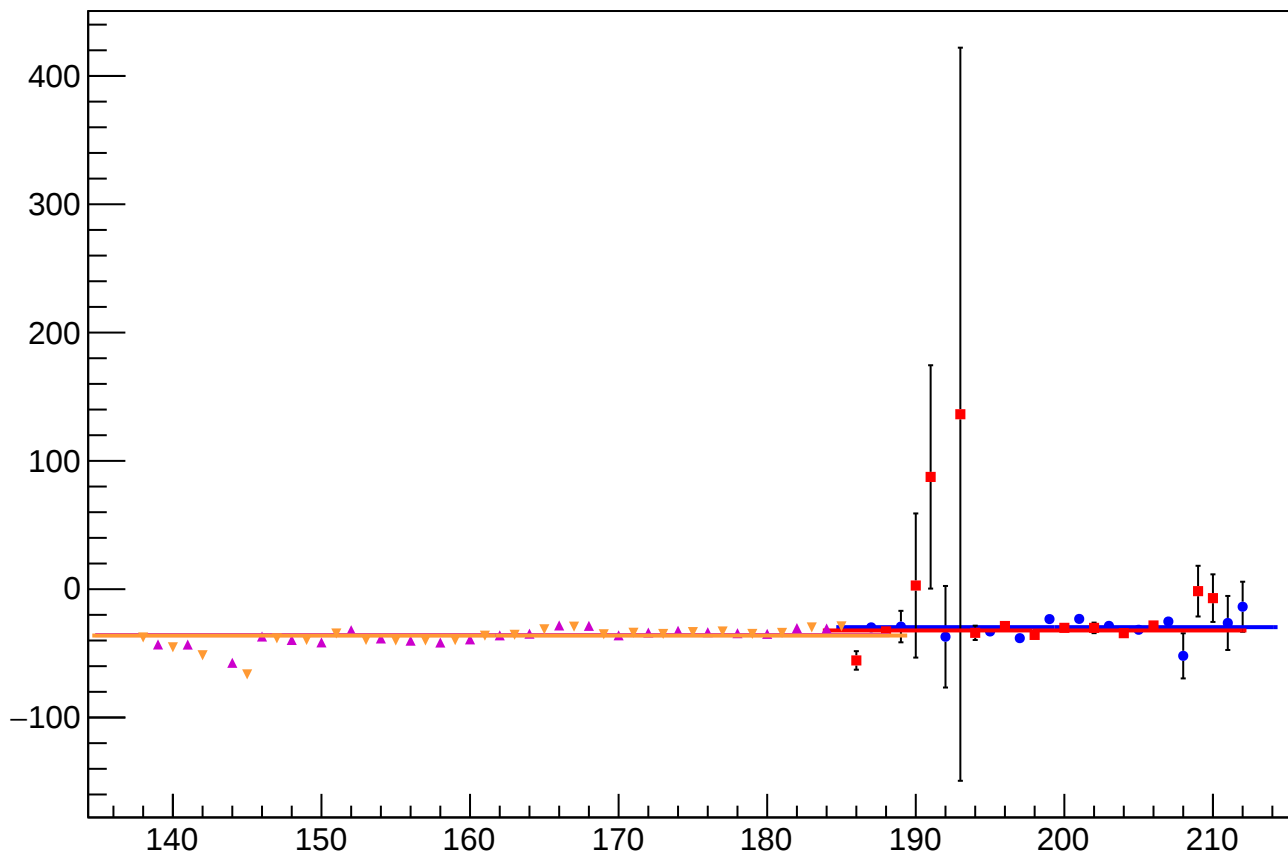
Right: -0.006 ± 0.001 χ^2/NDF : 282.7/59

In: -0.008 ± 0.001 χ^2/NDF : 98.2/51

Out: -0.008 ± 0.001 χ^2/NDF : 258.3/54

All: -0.008 ± 0.000 χ^2/NDF : 356.7/106

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.593 ± 0.857 χ^2/NDF : 26.4/12

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -32.155 ± 0.807 χ^2/NDF : 25.0/13

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

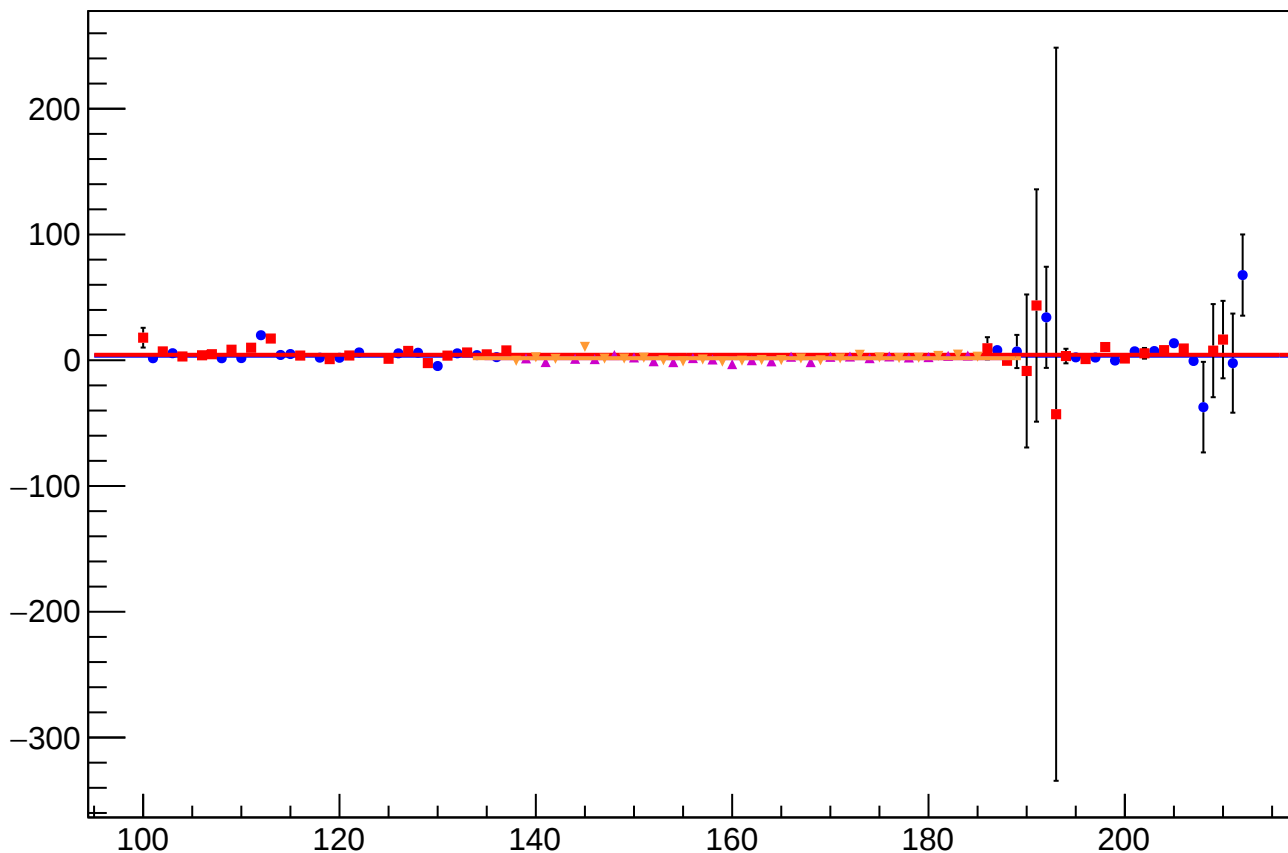
Right: -30.950 ± 0.587 χ^2/NDF : 56.1/26

In: -35.485 ± 0.187 χ^2/NDF : 930.2/35

Out: -35.908 ± 0.187 χ^2/NDF : 1162.8/37

All: -35.697 ± 0.132 χ^2/NDF : 2095.5/73

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.602 $\pm$ 0.217 χ^2 /NDF: 462.1/28

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.349 $\pm$ 0.221 χ^2 /NDF: 369.1/31

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

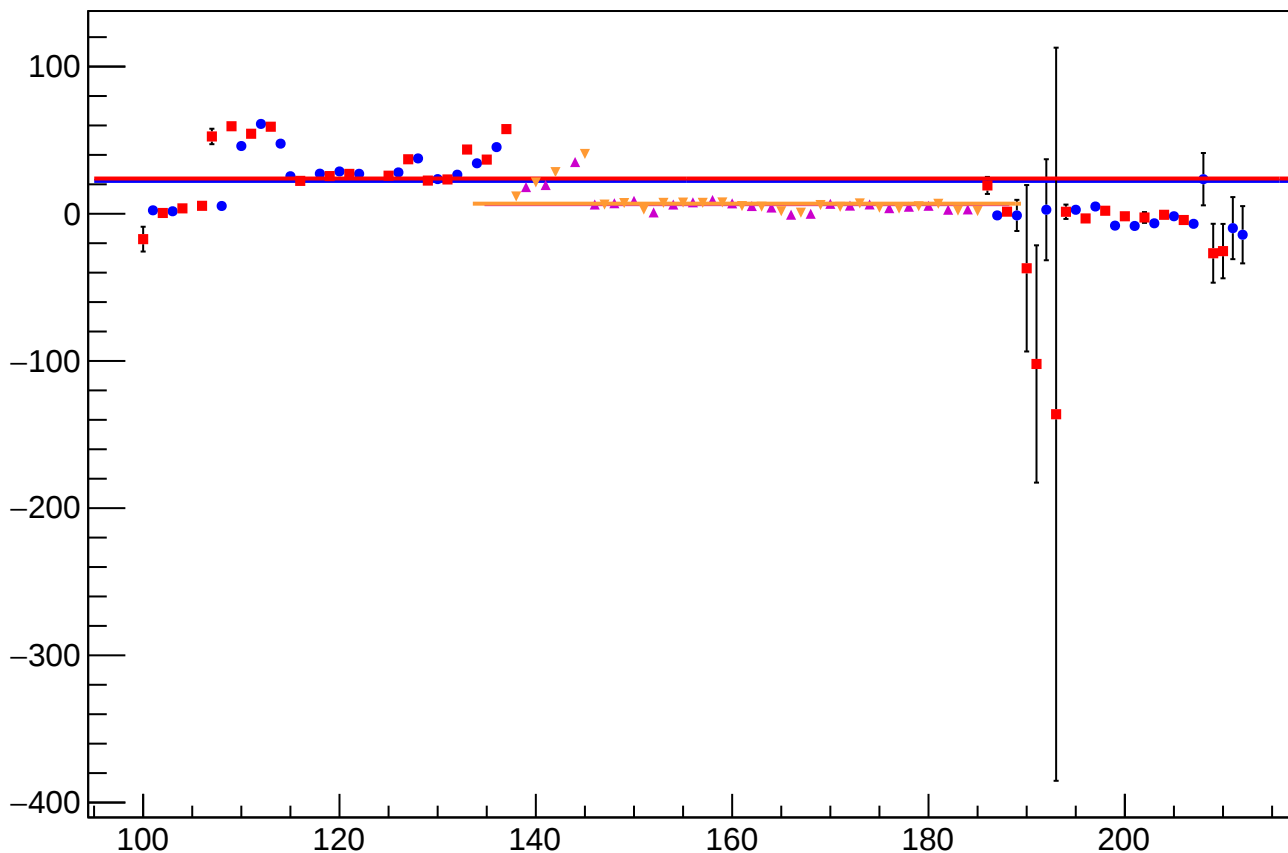
Right: 3.969 $\pm$ 0.155 χ^2 /NDF: 837.1/60

In: 2.274 $\pm$ 0.123 χ^2 /NDF:680.8/51

Out: 2.475 $\pm$ 0.123 χ^2 /NDF:640.2/55

All: 2.375 $\pm$ 0.087 χ^2 /NDF: 1322.4/107

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.325 ± 0.370 χ^2/NDF : 2812.0/28

Left Out: 6.866 ± 0.191 χ^2/NDF : 1295.7/23

Right Out: 23.946 ± 0.362 χ^2/NDF : 3297.2/31

Left In: 6.537 ± 0.190 χ^2/NDF : 1025.1/22

Left: 6.700 ± 0.135 χ^2/NDF : 2322.3/46

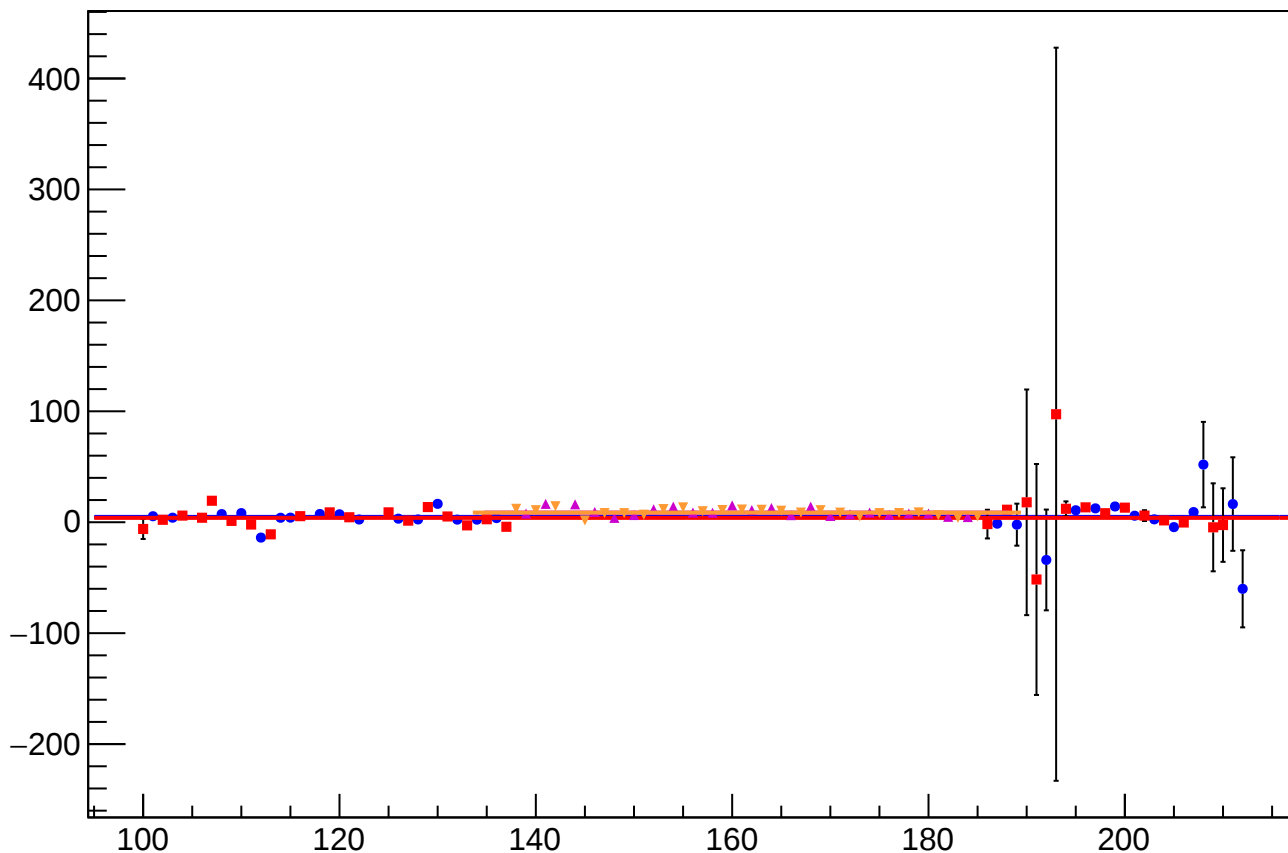
Right: 23.154 ± 0.259 χ^2/NDF : 6119.0/60

In: 9.844 ± 0.169 χ^2/NDF : 5277.6/51

Out: 10.602 ± 0.169 χ^2/NDF : 6334.8/55

All: 10.223 ± 0.120 χ^2/NDF : 11622.5/107

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.804 ± 0.250 χ^2/NDF : 576.3/28

Left Out: 8.695 ± 0.169 χ^2/NDF : 241.0/23

Right Out: 3.937 ± 0.254 χ^2/NDF : 589.2/31

Left In: 8.668 ± 0.170 χ^2/NDF : 436.7/22

Left: 8.681 ± 0.120 χ^2/NDF : 677.7/46

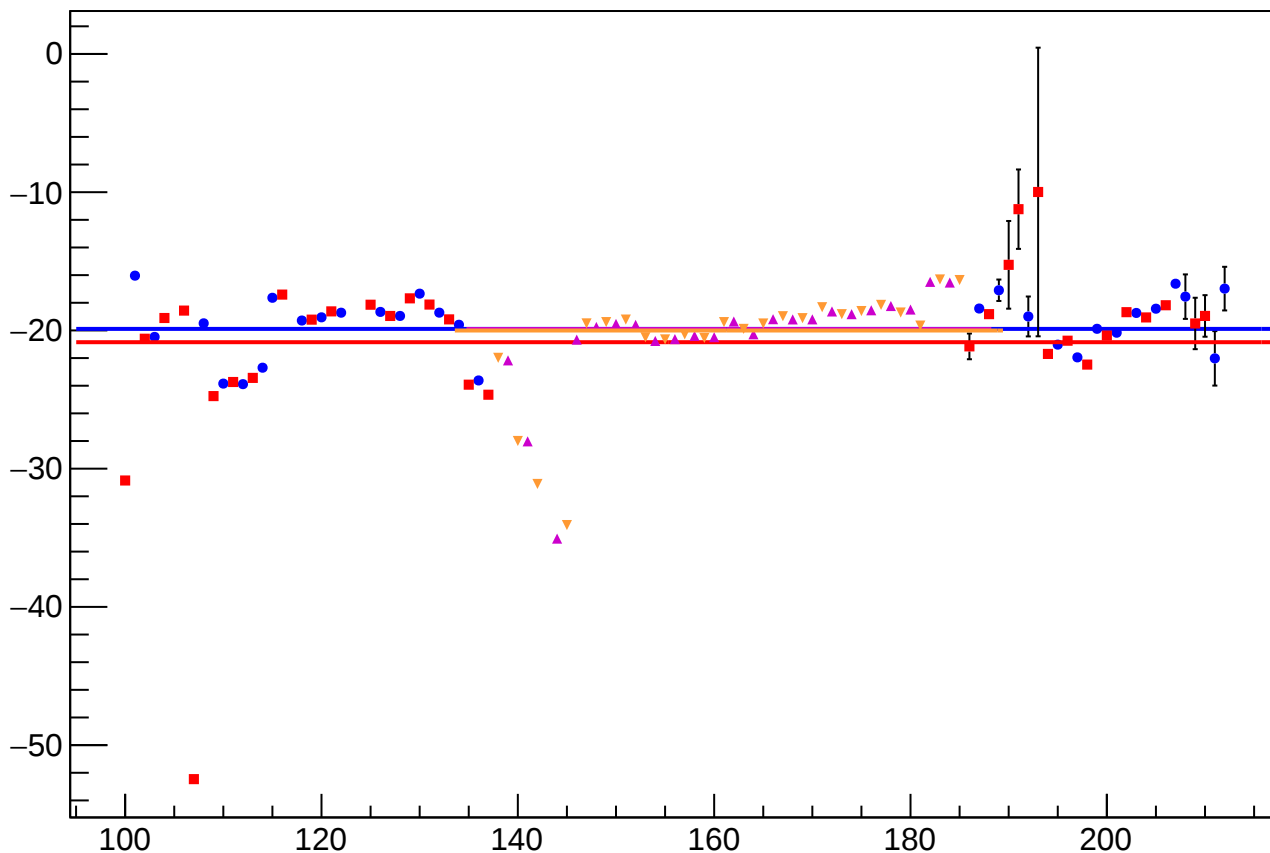
Right: 4.378 ± 0.178 χ^2/NDF : 1171.4/60

In: 7.445 ± 0.141 χ^2/NDF : 1176.2/51

Out: 7.237 ± 0.141 χ^2/NDF : 1073.0/55

All: 7.341 ± 0.099 χ^2/NDF : 2250.3/107

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.889 $\pm$ 0.015 χ^2 /NDF: 27147.7/28

Left Out: -20.006 $\pm$ 0.008 χ^2 /NDF:171763.9/23

Right Out: -20.852 $\pm$ 0.015 χ^2 /NDF: 95240.3/31

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

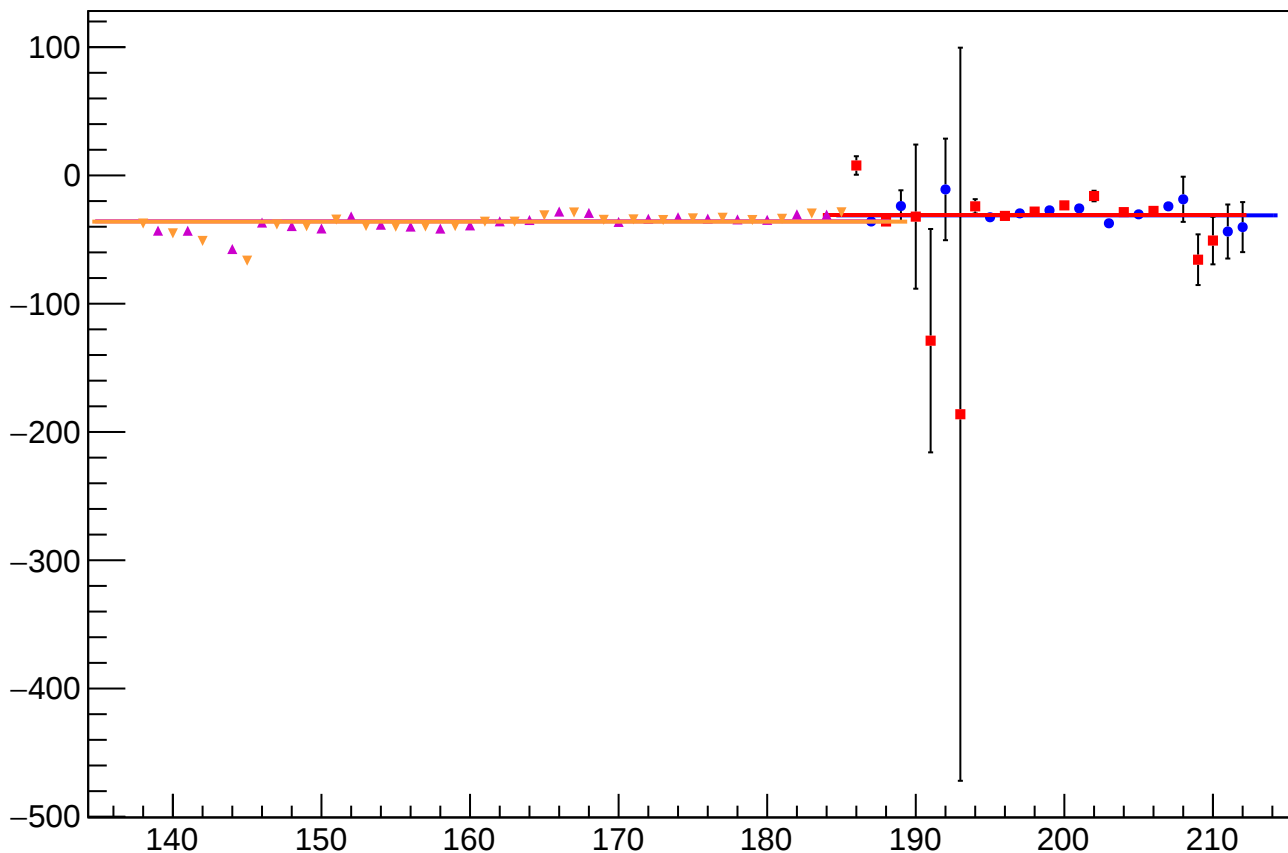
Right: -20.367 $\pm$ 0.011 χ^2 /NDF: 124477.2/60

In: -19.896 $\pm$ 0.007 χ^2 /NDF:171339.8/51

Out: -20.190 $\pm$ 0.007 χ^2 /NDF:269512.3/55

All: -20.042 $\pm$ 0.005 χ^2 /NDF: 441746.9/107

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.129 ± 0.859 $\chi^2/\text{NDF}: 28.6/12$

Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$

Right Out: -30.852 ± 0.809 $\chi^2/\text{NDF}: 76.2/13$

Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$

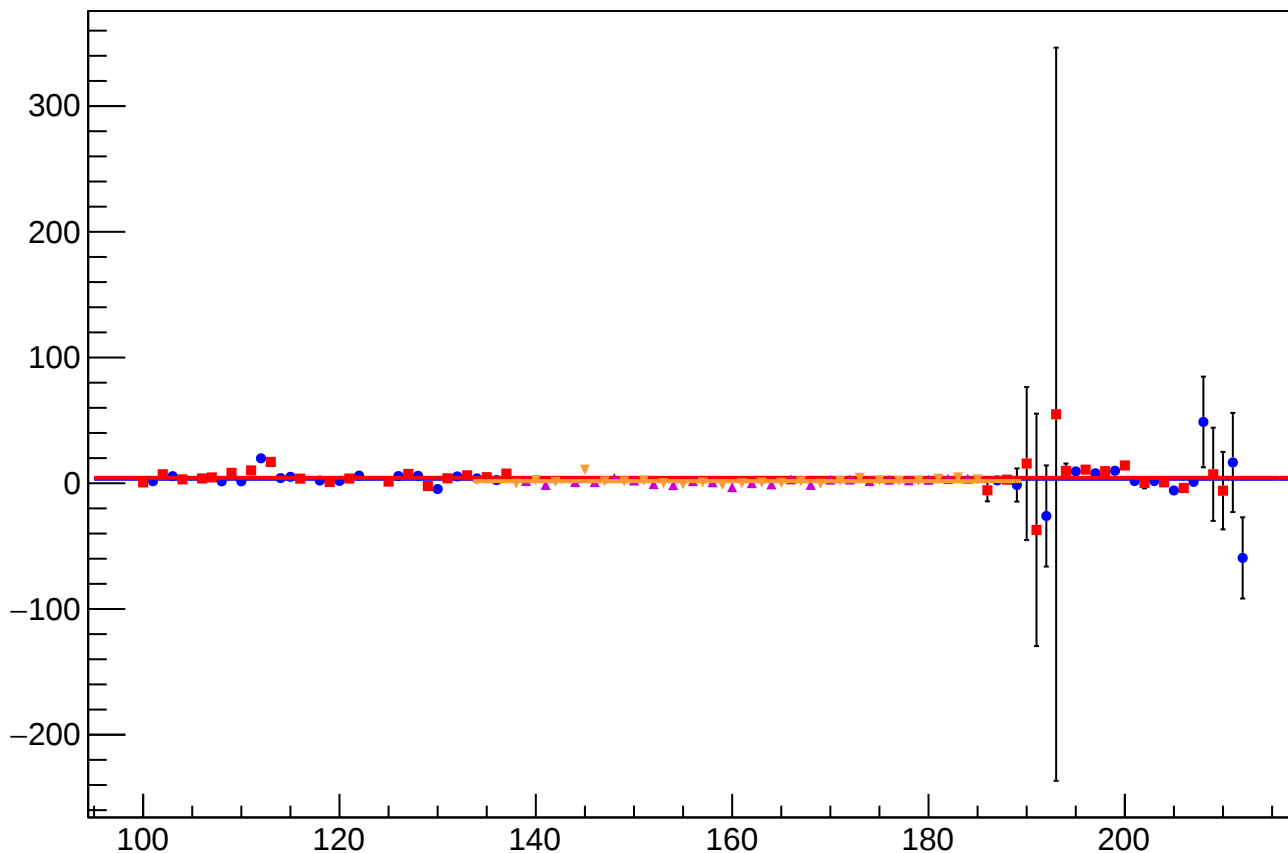
Right: -30.982 ± 0.589 $\chi^2/\text{NDF}: 104.9/26$

In: -35.548 ± 0.187 $\chi^2/\text{NDF}: 898.9/35$

Out: -35.755 ± 0.187 $\chi^2/\text{NDF}: 1236.3/37$

All: -35.651 ± 0.132 $\chi^2/\text{NDF}: 2135.8/73$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.567 $\pm$ 0.217 χ^2 /NDF: 461.5/28

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.321 $\pm$ 0.217 χ^2 /NDF: 378.4/31

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

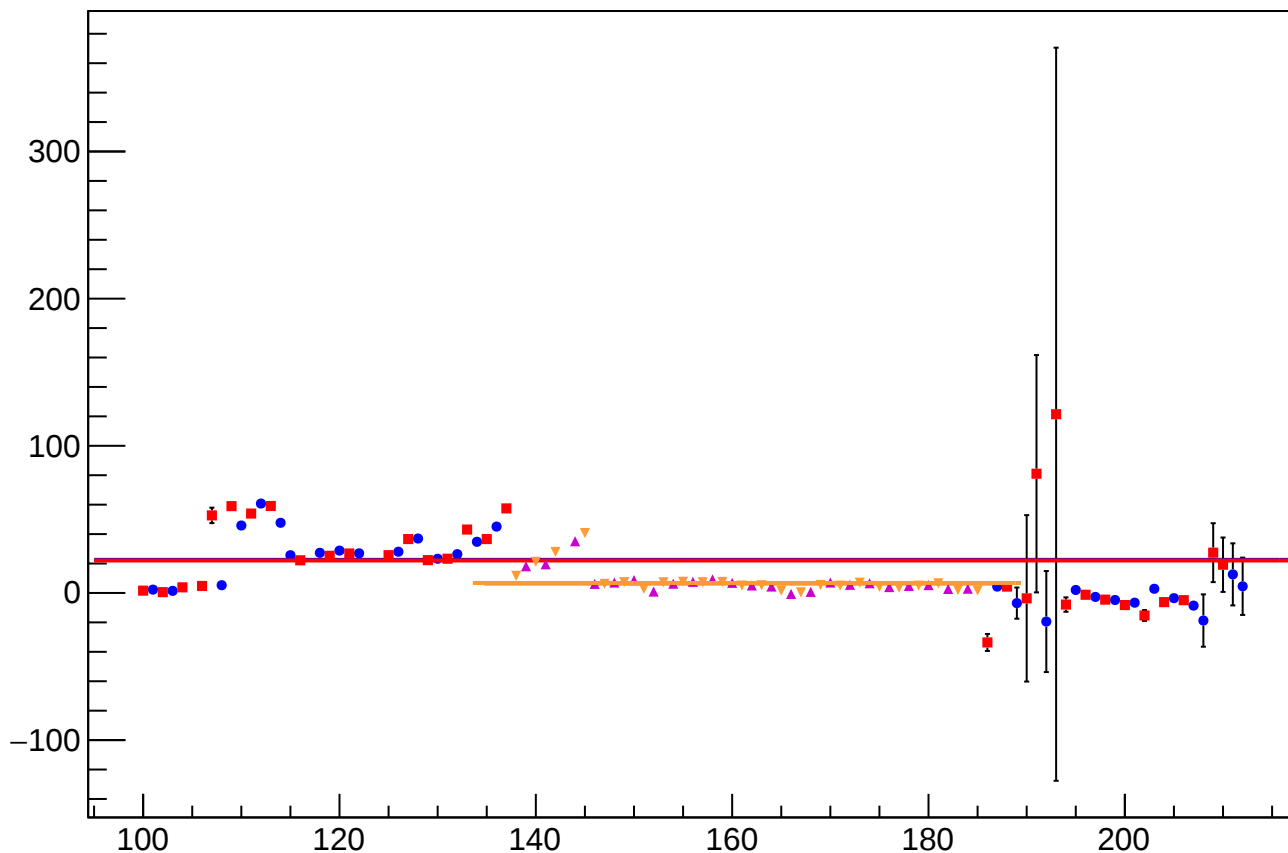
Right: 3.943 $\pm$ 0.153 χ^2 /NDF: 845.9/60

In: 2.306 $\pm$ 0.123 χ^2 /NDF:674.5/51

Out: 2.546 $\pm$ 0.122 χ^2 /NDF:644.4/55

All: 2.426 $\pm$ 0.087 χ^2 /NDF: 1320.9/107

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.483 $\pm$ 0.370 χ^2 /NDF: 2700.7/28

Left Out: 6.779 $\pm$ 0.191 χ^2 /NDF:1297.7/23

Right Out: 22.063 $\pm$ 0.349 χ^2 /NDF: 3659.3/31

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

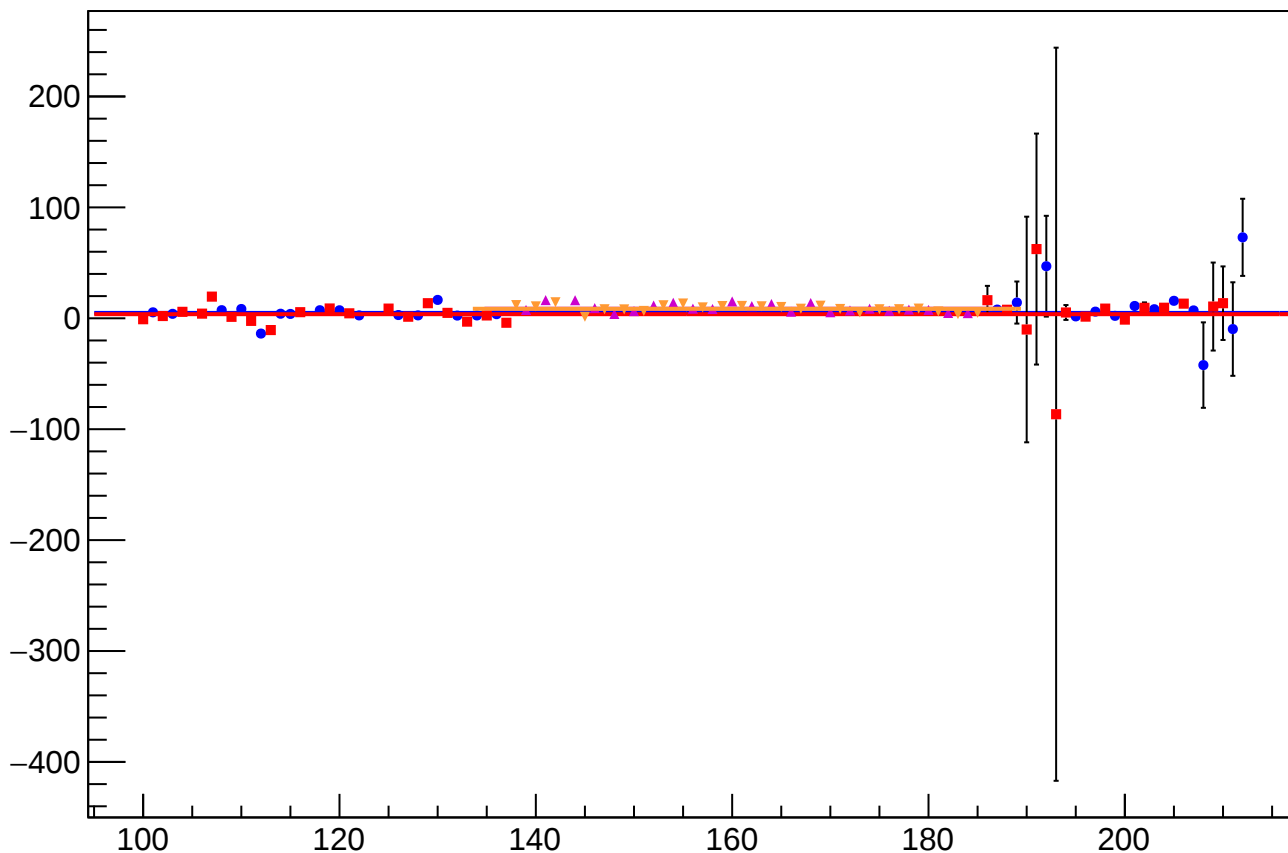
Right: 22.261 $\pm$ 0.254 χ^2 /NDF: 6360.7/60

In: 9.870 $\pm$ 0.169 χ^2 /NDF:5189.3/51

Out: 10.311 $\pm$ 0.168 χ^2 /NDF:6432.1/55

All: 10.092 $\pm$ 0.119 χ^2 /NDF: 11624.9/107

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.848 $\pm$ 0.250 χ^2 /NDF: 564.4/28

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF:245.5/23

Right Out: 3.698 $\pm$ 0.250 χ^2 /NDF: 589.1/31

Left In: 8.585 $\pm$ 0.170 χ^2 /NDF:441.8/22

Left: 8.585 $\pm$ 0.120 χ^2 /NDF: 687.3/46

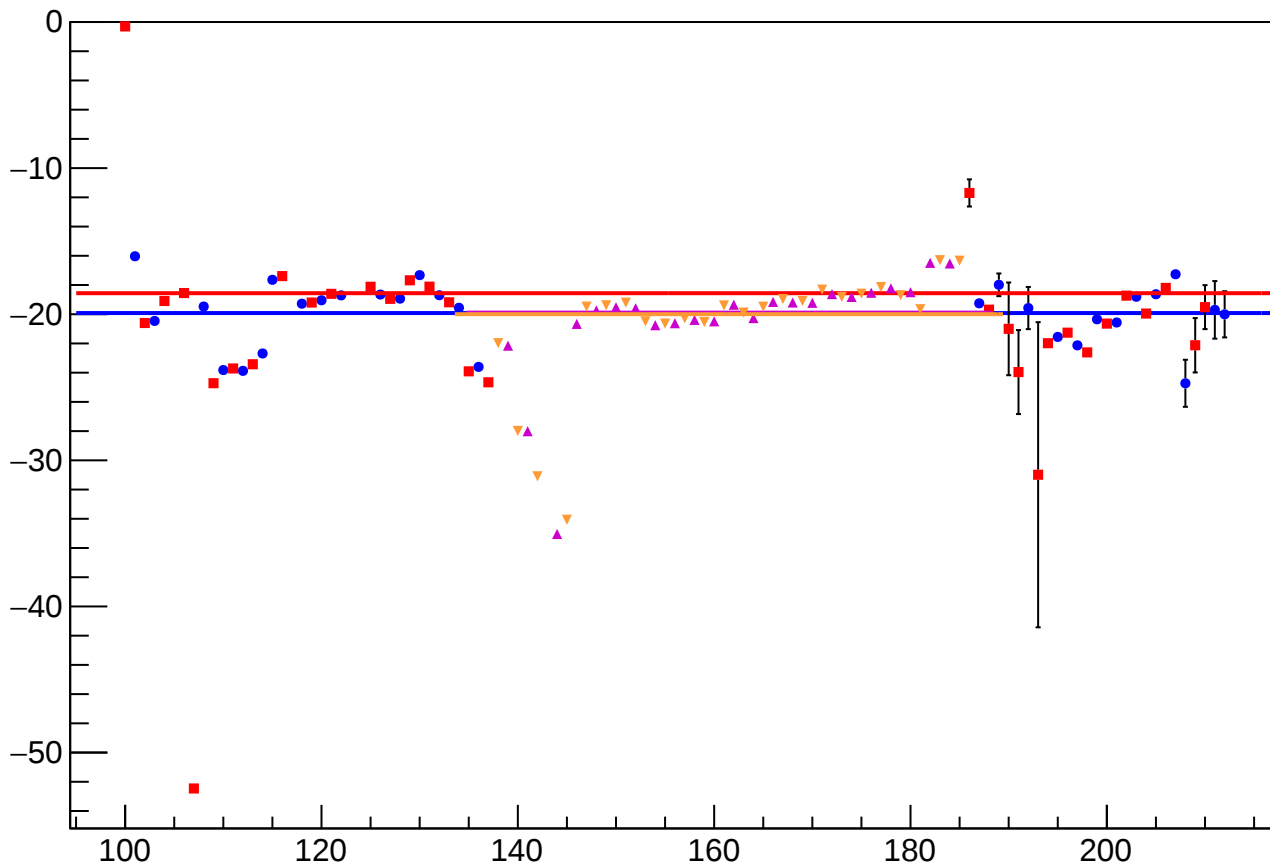
Right: 4.274 $\pm$ 0.177 χ^2 /NDF: 1164.0/60

In: 7.402 $\pm$ 0.141 χ^2 /NDF:1159.0/51

Out: 7.055 $\pm$ 0.140 χ^2 /NDF:1096.7/55

All: 7.228 $\pm$ 0.099 χ^2 /NDF: 2258.8/107

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.920 ± 0.015 $\chi^2/\text{NDF}: 27097.2/28$

Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$

Right Out: -18.559 ± 0.014 $\chi^2/\text{NDF}: 303728.2/31$

Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.944 ± 0.006 $\chi^2/\text{NDF}: 316093.4/46$

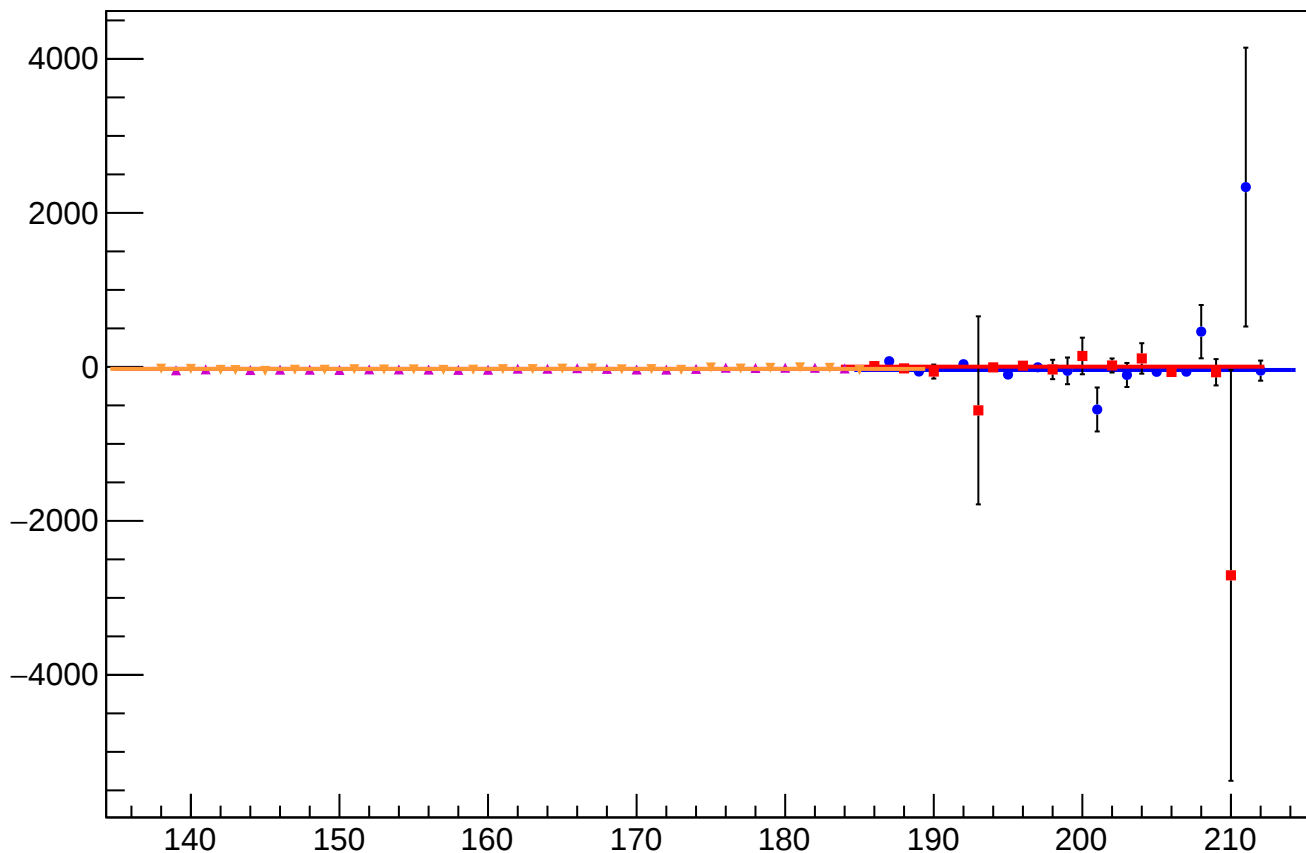
Right: -19.205 ± 0.010 $\chi^2/\text{NDF}: 335245.8/60$

In: -19.897 ± 0.007 $\chi^2/\text{NDF}: 171155.5/51$

Out: -19.655 ± 0.007 $\chi^2/\text{NDF}: 483603.9/55$

All: -19.775 ± 0.005 $\chi^2/\text{NDF}: 655373.2/107$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected

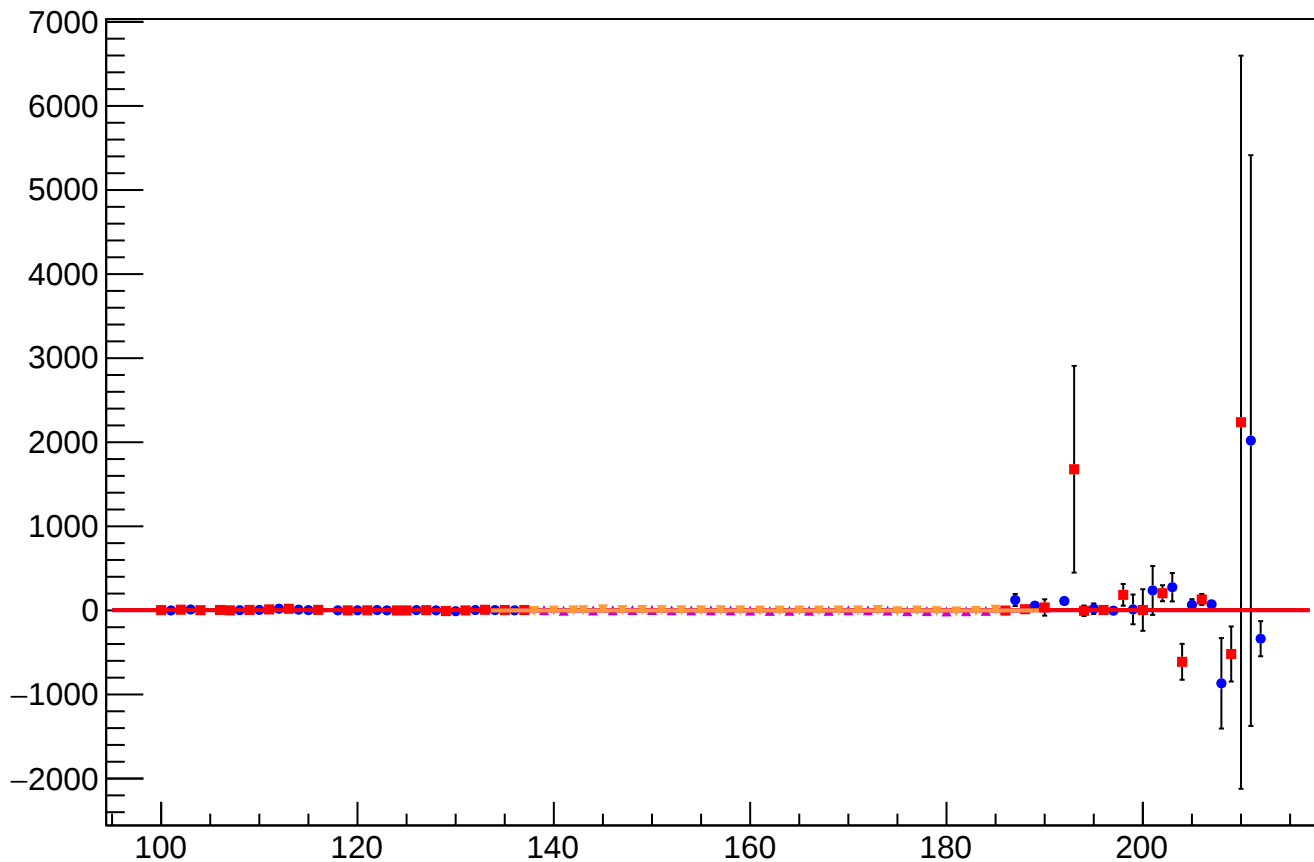


Right In: -39.962 ± 12.985 χ^2/NDF : 19.7/12
 Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24
 Right Out: 2.772 ± 8.111 χ^2/NDF : 6.8/12
 Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47
 Right: -9.222 ± 6.879 χ^2/NDF : 34.3/25
 In: -26.055 ± 0.195 χ^2/NDF : 3300.4/35
 Out: -25.868 ± 0.192 χ^2/NDF : 4177.3/37

All: -25.960 ± 0.137 χ^2/NDF : 7478.1/73

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.476 ± 0.315 χ^2/NDF : 319.2/29

Left Out: -0.654 ± 0.146 χ^2/NDF : 1320.8/24

Right Out: 3.715 ± 0.327 χ^2/NDF : 292.5/31

Left In: -0.863 ± 0.150 χ^2/NDF : 1066.5/22

Left: -0.756 ± 0.105 χ^2/NDF : 2388.3/47

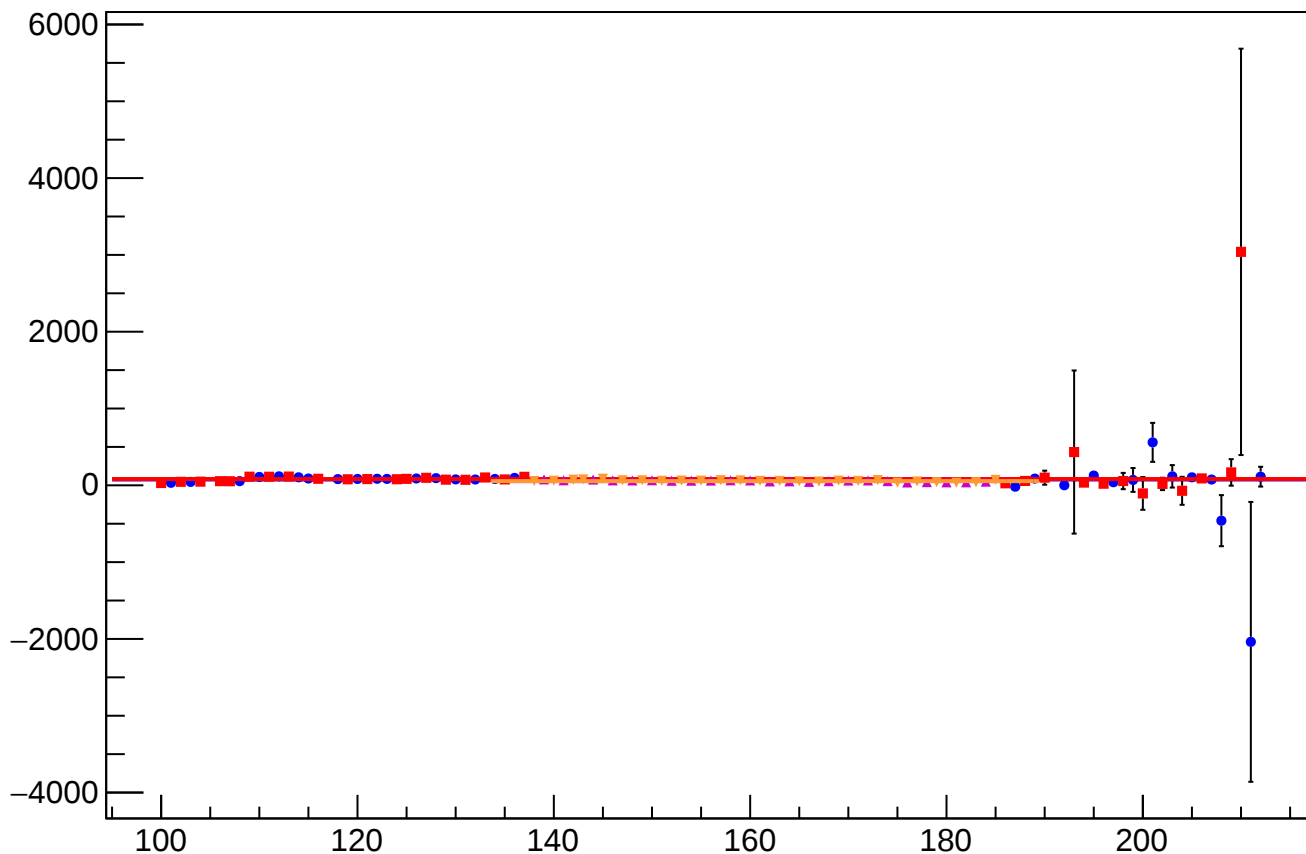
Right: 3.073 ± 0.227 χ^2/NDF : 619.2/61

In: -0.242 ± 0.136 χ^2/NDF : 1477.3/52

Out: 0.075 ± 0.133 χ^2/NDF : 1762.5/56

All: -0.081 ± 0.095 χ^2/NDF : 3242.6/109

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.532 $\pm$ 0.576 χ^2 /NDF: 2273.4/29

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.491 $\pm$ 0.590 χ^2 /NDF: 1634.1/31

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

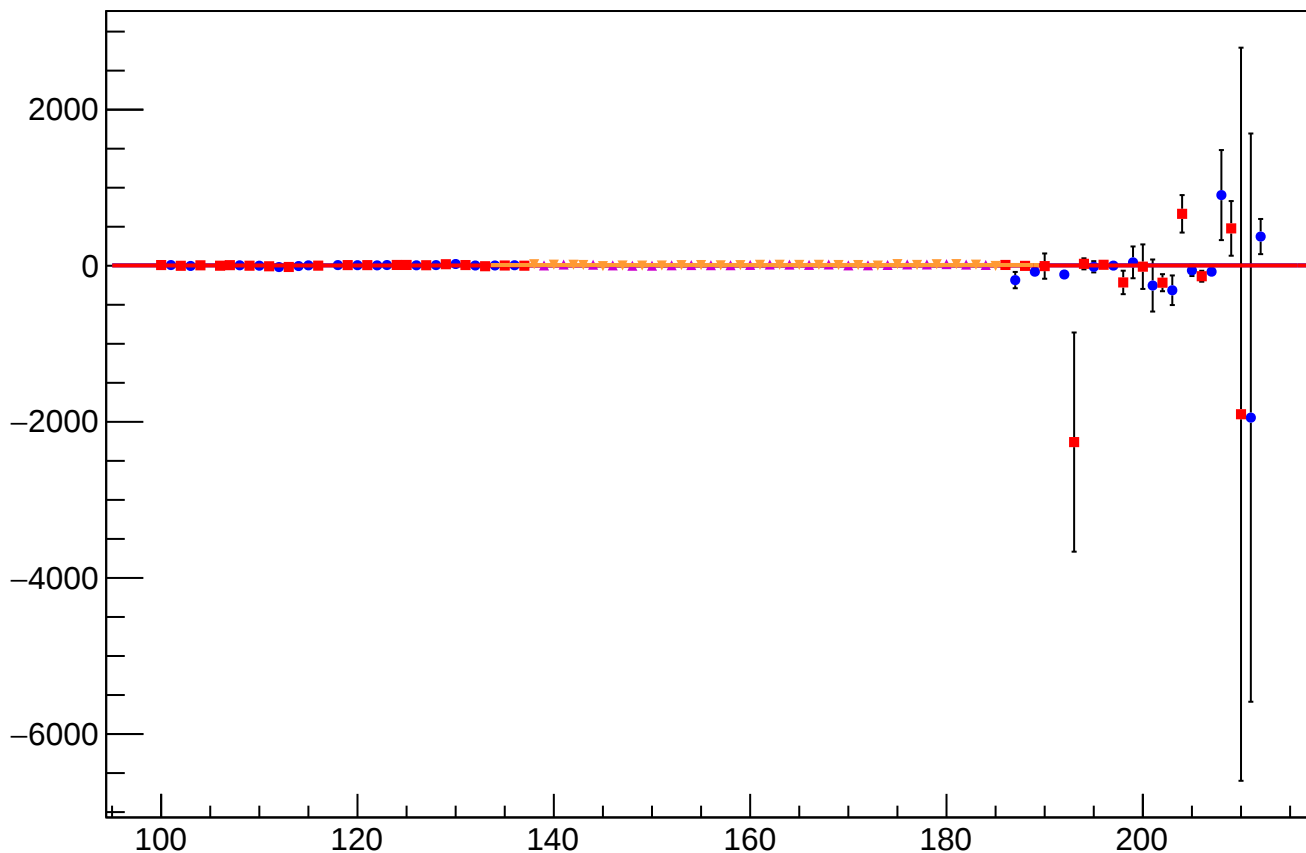
Right: 78.951 $\pm$ 0.412 χ^2 /NDF: 3943.6/61

In: 57.245 $\pm$ 0.183 χ^2 /NDF: 7223.1/52

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8021.2/56

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15246.3/109

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.407 $\pm$ 0.361 χ^2 /NDF: 410.1/29

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.580 $\pm$ 0.375 χ^2 /NDF: 444.1/31

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

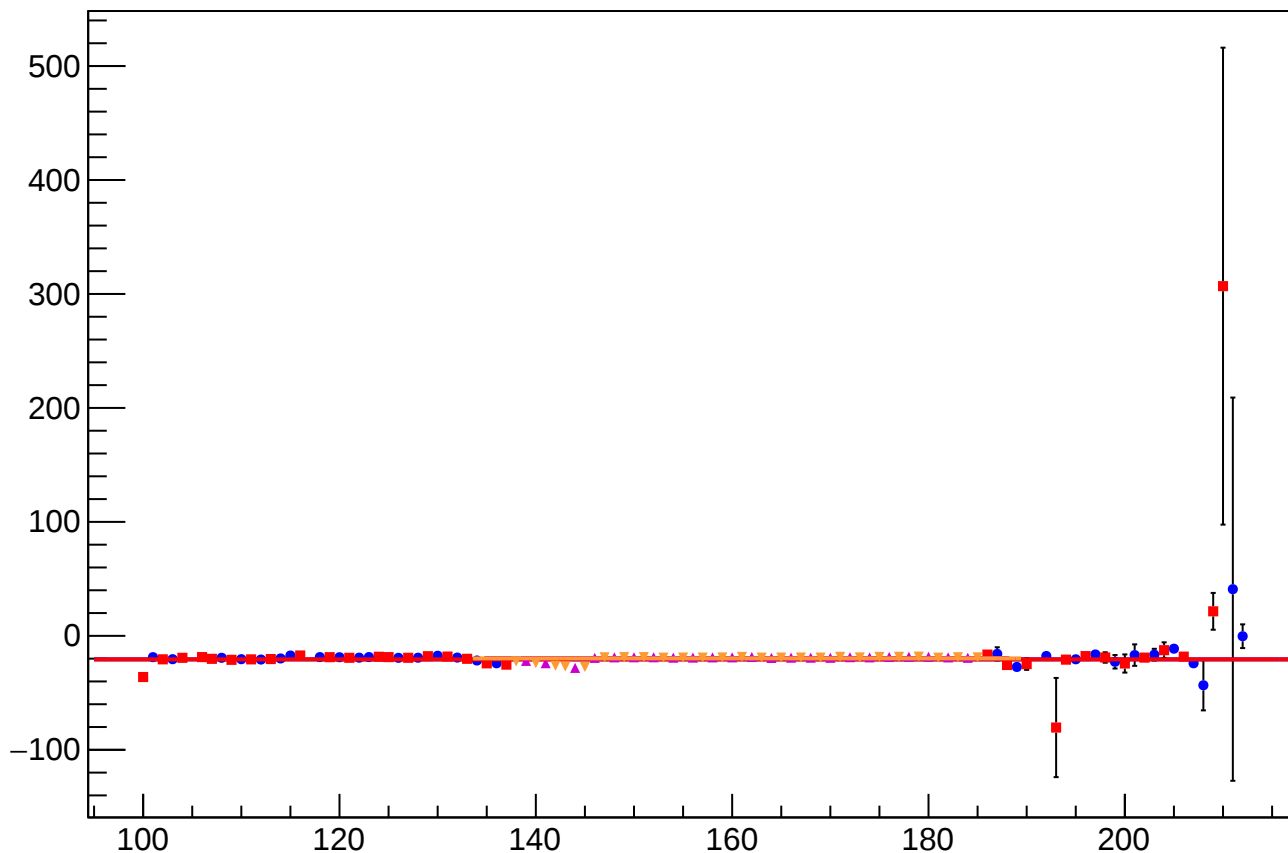
Right: 4.530 $\pm$ 0.260 χ^2 /NDF: 866.5/61

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1689.8/52

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2118.5/56

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3810.0/109

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12459.0/29

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.638 $\pm$ 0.019 χ^2 /NDF: 13819.1/31

Left In: -19.435 $\pm$ 0.008 χ^2 /NDF: 53170.9/22

Left: -19.603 $\pm$ 0.006 χ^2 /NDF: 145665.0/47

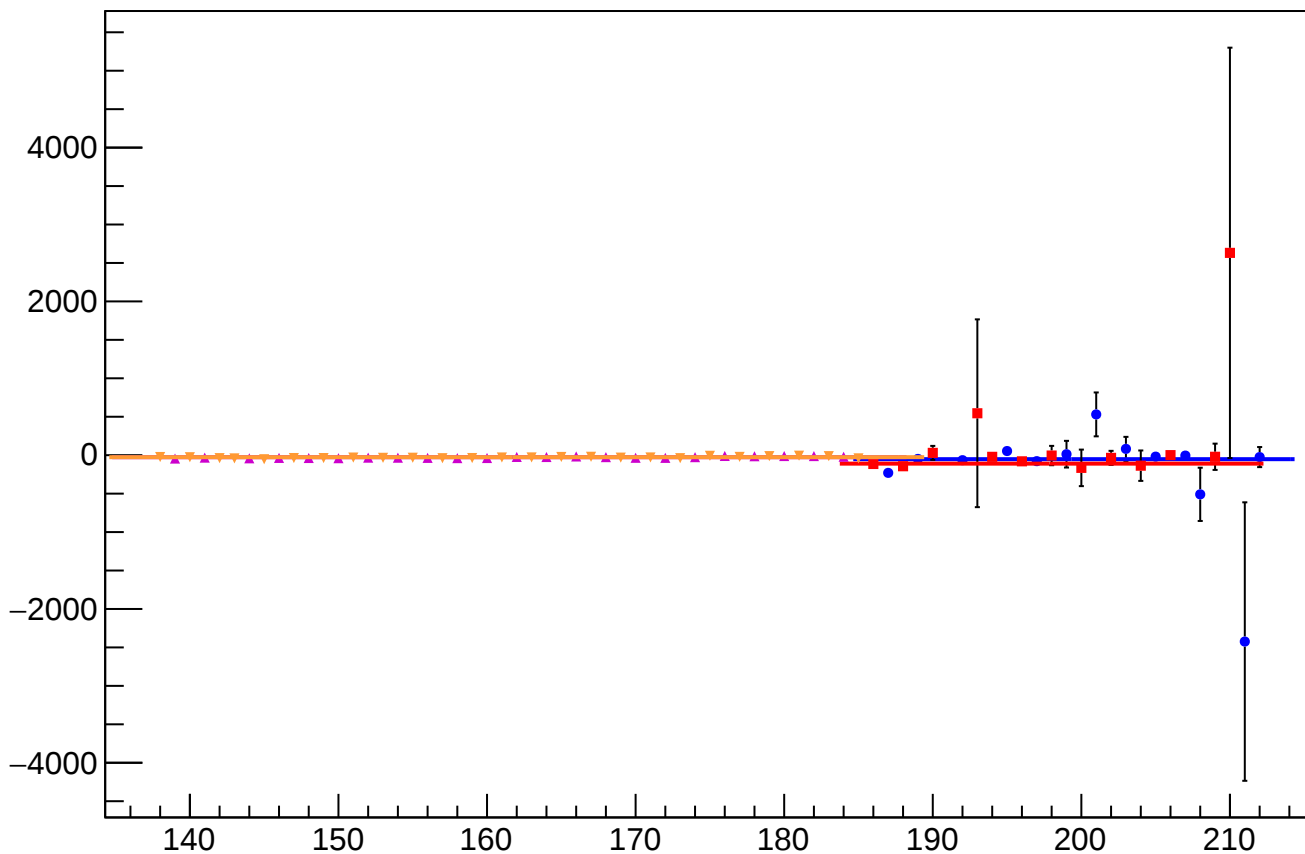
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26278.2/61

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68967.3/52

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107158.6/56

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176854.4/109

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected

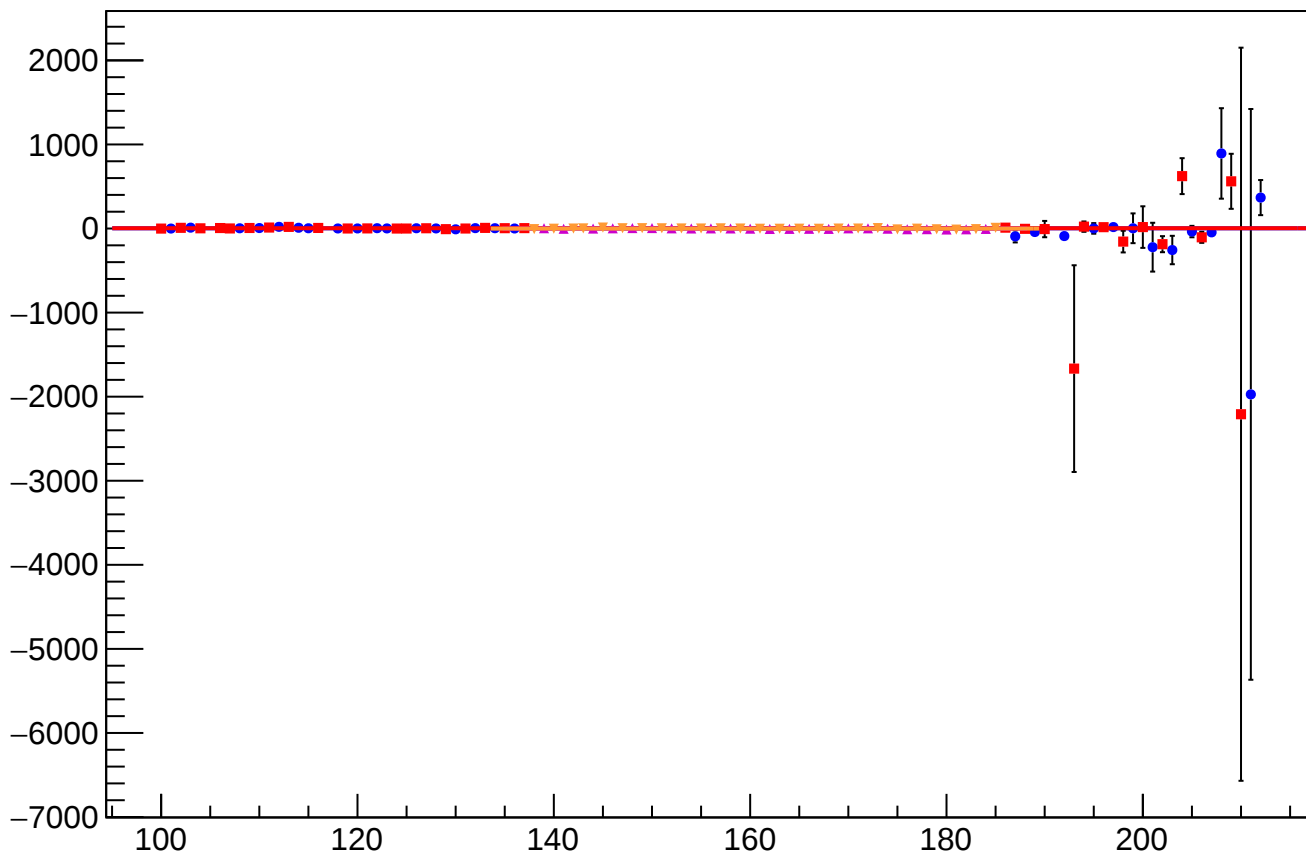


Right In: -51.840 ± 12.995 χ^2/NDF : 31.1/12
 Left Out: -25.899 ± 0.192 χ^2/NDF : 4127.5/24
 Right Out: -109.802 ± 8.117 χ^2/NDF : 16.9/12
 Left In: -26.046 ± 0.195 χ^2/NDF : 3246.7/22

Left: -25.971 ± 0.137 χ^2/NDF : 7374.6/47
 Right: -93.535 ± 6.884 χ^2/NDF : 62.2/25
 In: -26.052 ± 0.195 χ^2/NDF : 3281.7/35
 Out: -25.946 ± 0.192 χ^2/NDF : 4251.2/37

All: -25.998 ± 0.137 χ^2/NDF : 7533.1/73

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.439+/-0.315 χ^2/NDF : 311.6/29

Left Out: -0.596+/-0.146 χ^2/NDF : 1310.7/24

Right Out: 3.593+/-0.318 χ^2/NDF : 302.2/31

Left In: -0.795+/-0.151 χ^2/NDF : 1106.3/22

Left: -0.693+/-0.105 χ^2/NDF : 2417.9/47

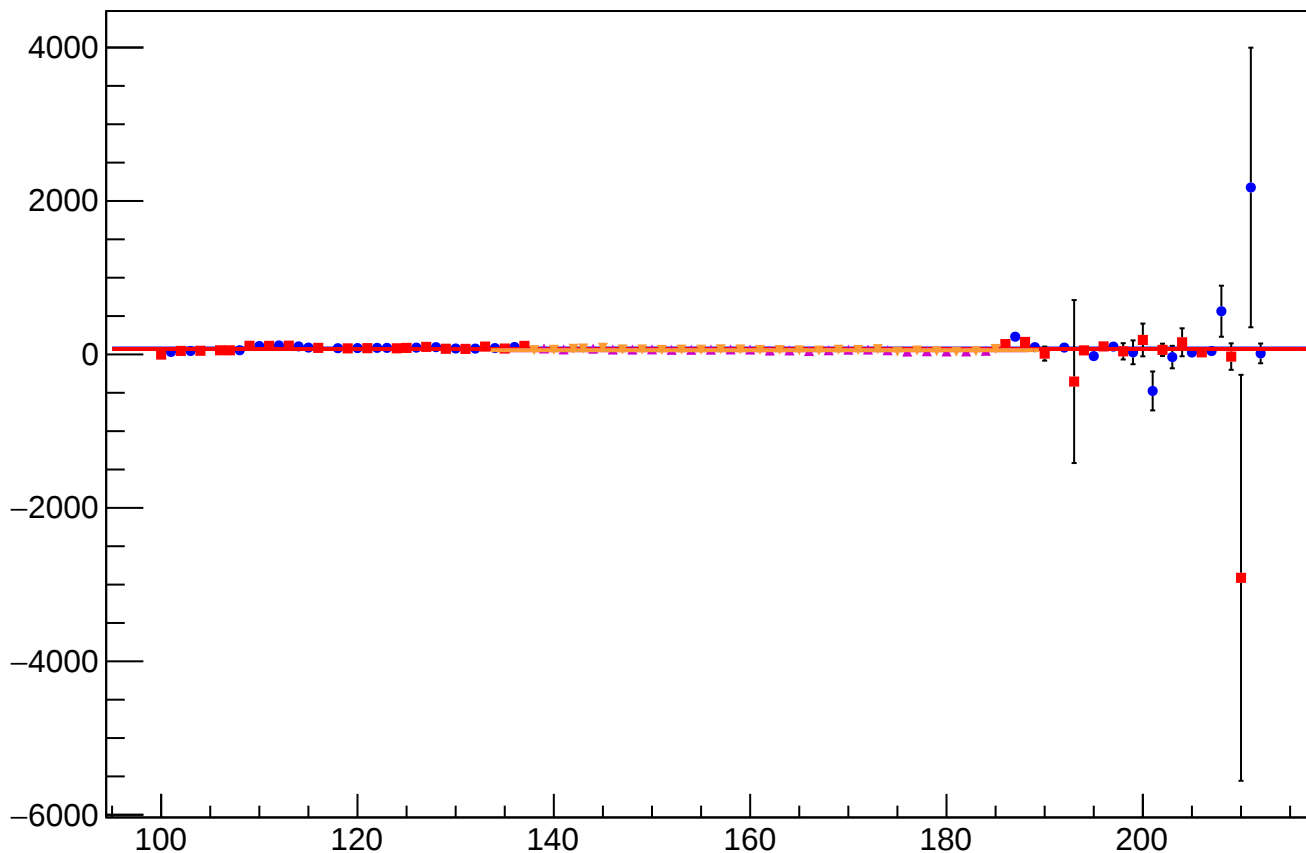
Right: 3.011+/-0.224 χ^2/NDF : 620.5/61

In: -0.193+/-0.136 χ^2/NDF : 1503.7/52

Out: 0.136+/-0.133 χ^2/NDF : 1756.2/56

All: -0.025+/-0.095 χ^2/NDF : 3262.9/109

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.709 $\pm$ 0.576 χ^2 /NDF: 2300.0/29

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.747 $\pm$ 0.549 χ^2 /NDF: 4494.0/31

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

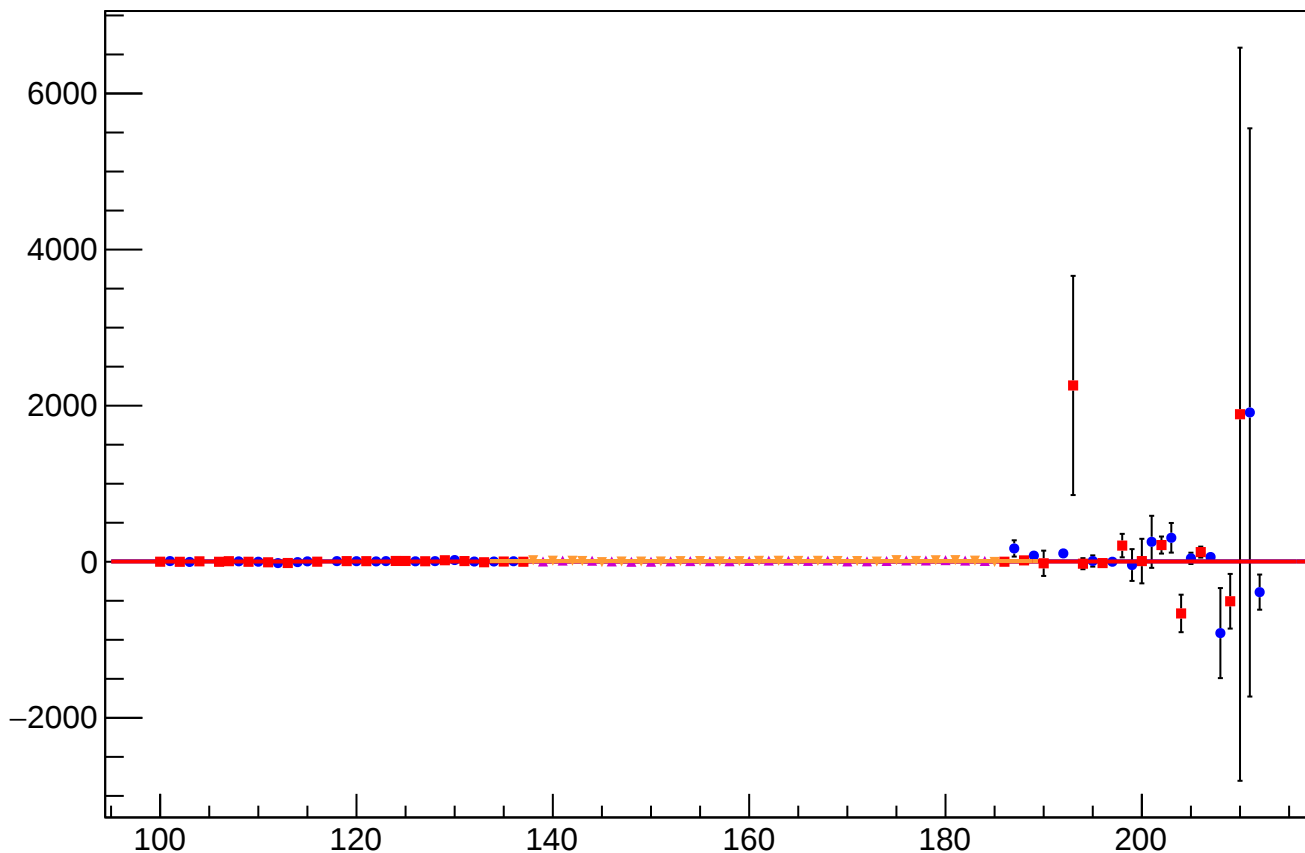
Right: 73.581 $\pm$ 0.397 χ^2 /NDF: 6850.1/61

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7227.9/52

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9778.2/56

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17009.6/109

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.444+/-0.361 χ^2/NDF : 404.2/29

Left Out: 9.675+/-0.168 χ^2/NDF :1441.3/24

Right Out: 3.283+/-0.365 χ^2/NDF : 446.5/31

Left In: 9.738+/-0.172 χ^2/NDF :1191.1/22

Left: 9.706+/-0.120 χ^2/NDF : 2632.6/47

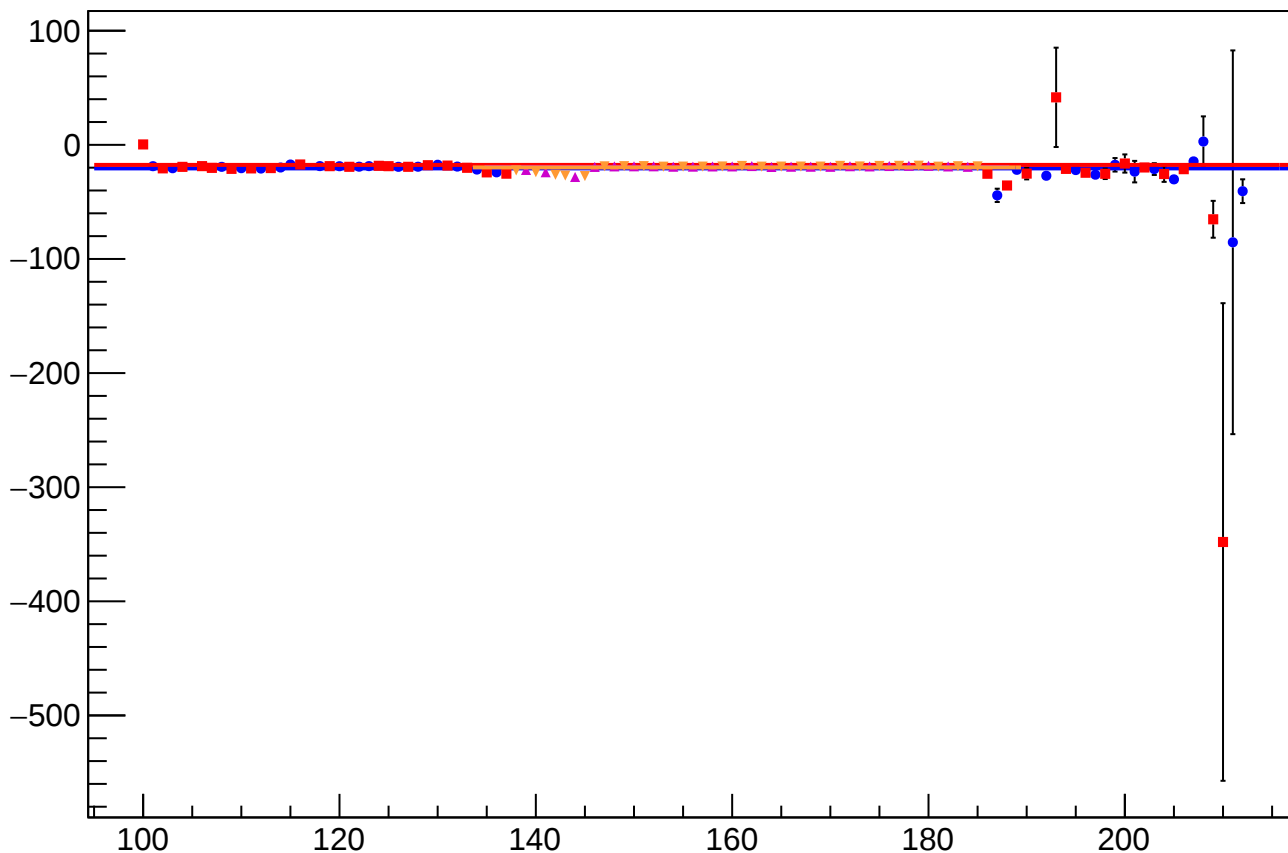
Right: 4.377+/-0.257 χ^2/NDF : 868.4/61

In: 8.945+/-0.155 χ^2/NDF :1710.6/52

Out: 8.562+/-0.153 χ^2/NDF :2140.5/56

All: 8.750+/-0.109 χ^2/NDF : 3854.2/109

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 $\chi^2/\text{NDF}: 12519.7/29$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.575 ± 0.018 $\chi^2/\text{NDF}: 178452.8/31$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

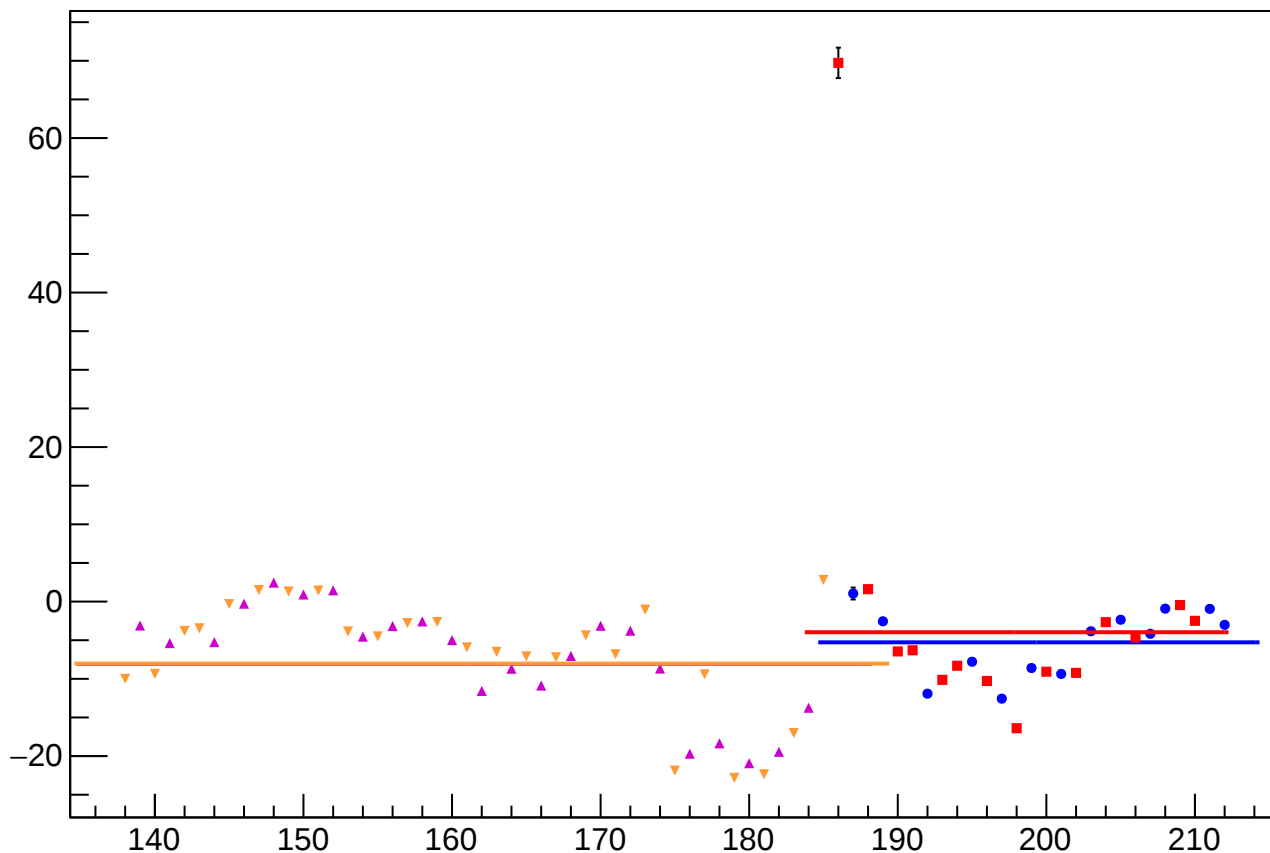
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204442.7/61$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68941.5/52$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282439.6/56$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351744.3/109$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

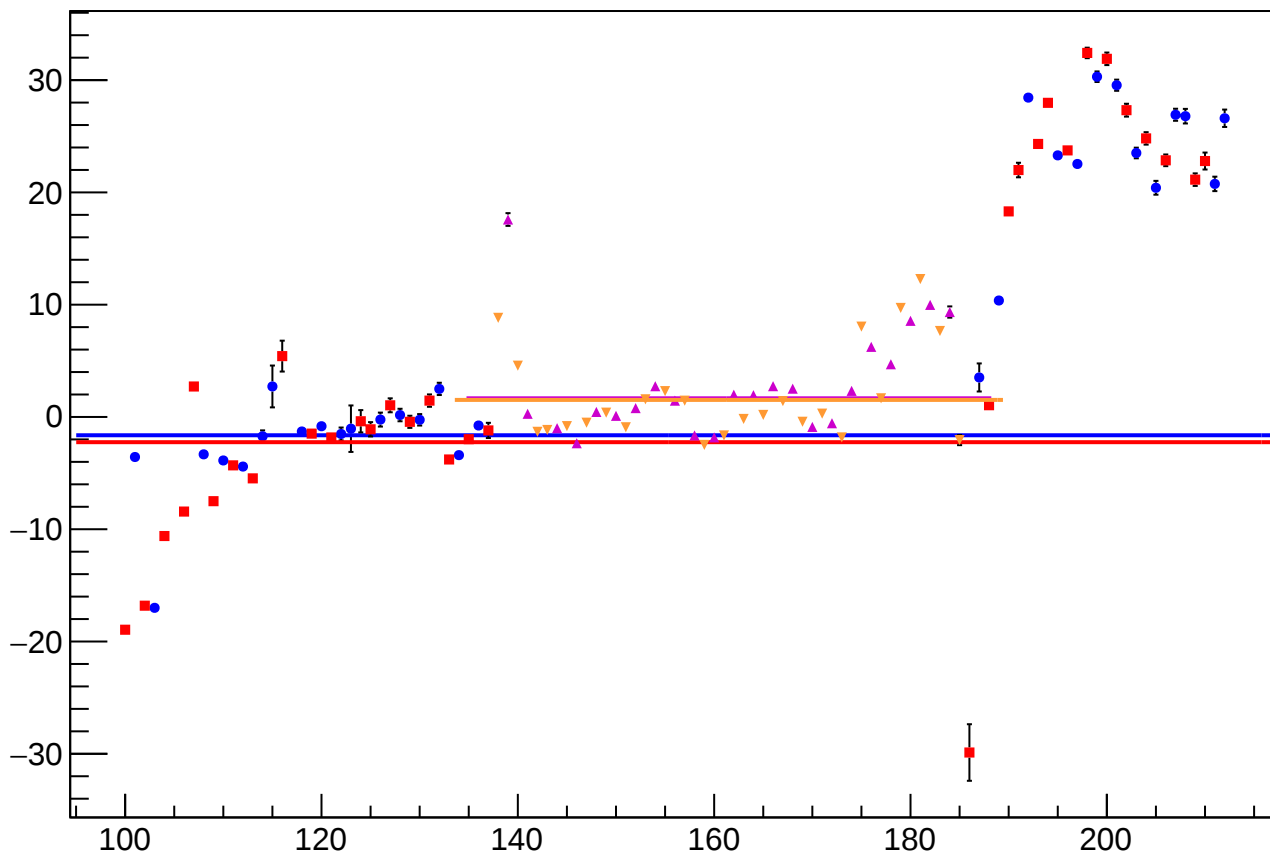


Right In: -5.275 ± 0.110 χ^2/NDF : 1398.7/12
 Left Out: -8.034 ± 0.070 χ^2/NDF : 12568.0/24
 Right Out: -3.966 ± 0.099 χ^2/NDF : 4099.3/13
 Left In: -8.078 ± 0.072 χ^2/NDF : 10541.6/22

Left: -8.055 ± 0.050 χ^2/NDF : 23109.8/47
 Right: -4.550 ± 0.074 χ^2/NDF : 5576.1/26
 In: -7.241 ± 0.060 χ^2/NDF : 12393.7/35
 Out: -6.668 ± 0.057 χ^2/NDF : 17791.3/38

All: -6.940 ± 0.042 χ^2/NDF : 30232.4/74

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.630 ± 0.051 χ^2/NDF : 47738.4/29

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -2.247 ± 0.054 χ^2/NDF : 56547.5/32

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

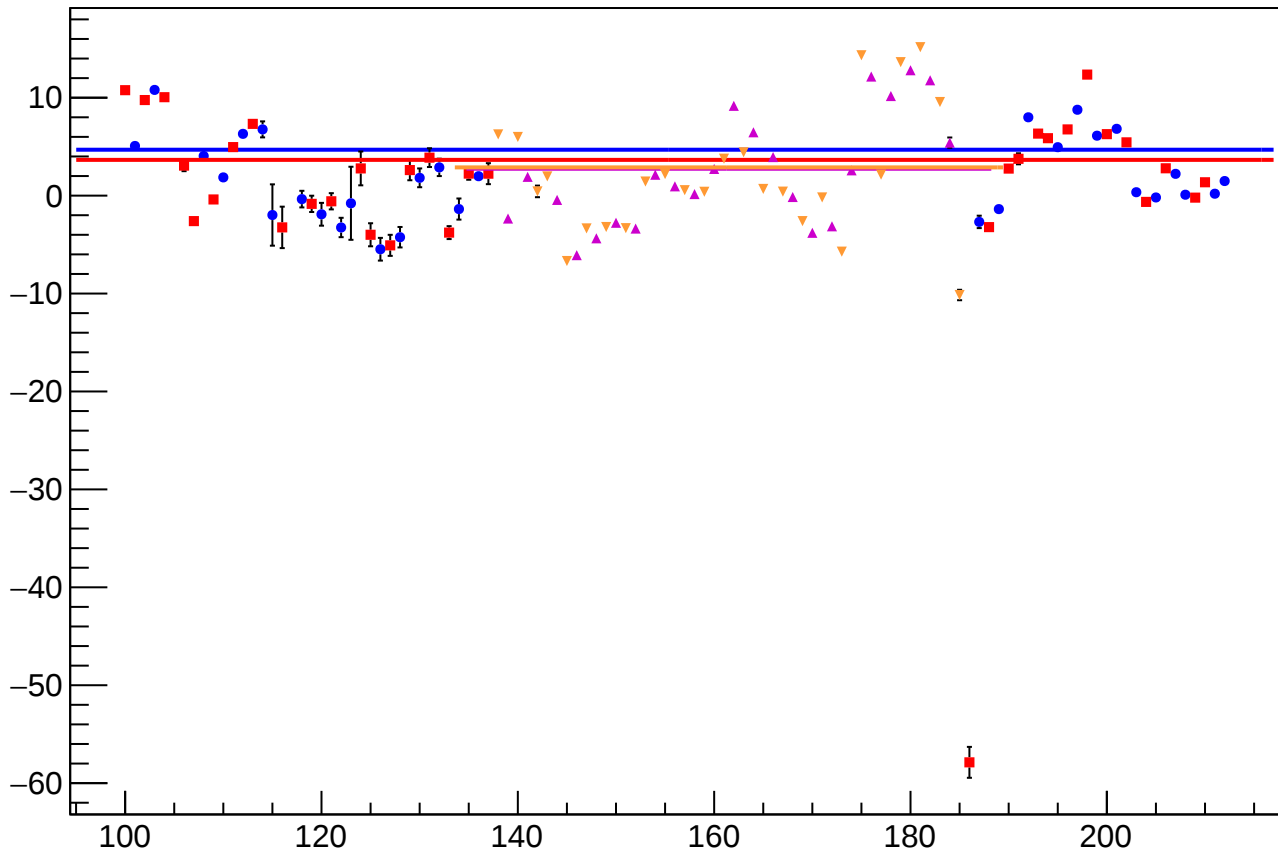
Right: -1.925 ± 0.037 χ^2/NDF : 104355.3/62

In: -0.149 ± 0.038 χ^2/NDF : 53635.3/52

Out: -0.394 ± 0.038 χ^2/NDF : 63831.6/57

All: -0.271 ± 0.027 χ^2/NDF : 117487.8/110

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.689 ± 0.068 $\chi^2/\text{NDF}: 3074.2/29$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 3.652 ± 0.064 $\chi^2/\text{NDF}: 7989.2/32$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

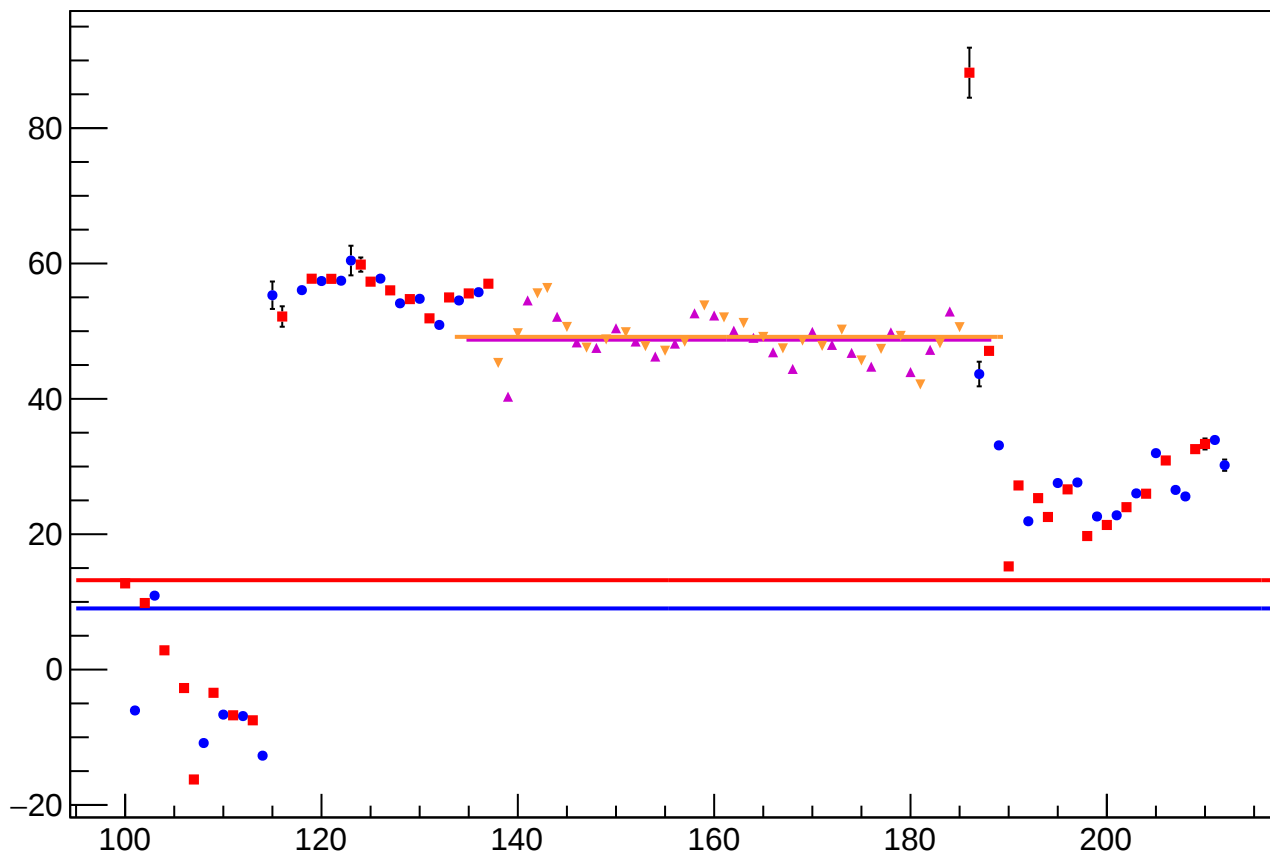
Right: 4.143 ± 0.047 $\chi^2/\text{NDF}: 11187.1/62$

In: 3.771 ± 0.049 $\chi^2/\text{NDF}: 10647.6/52$

Out: 3.303 ± 0.047 $\chi^2/\text{NDF}: 16947.4/57$

All: 3.528 ± 0.034 $\chi^2/\text{NDF}: 27642.1/110$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.035+/-0.060 χ^2/NDF : 135030.1/29

Left Out: 49.163+/-0.062 χ^2/NDF :2259.9/24

Right Out: 13.207+/-0.064 χ^2/NDF : 137253.7/32

Left In: 48.744+/-0.064 χ^2/NDF :2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

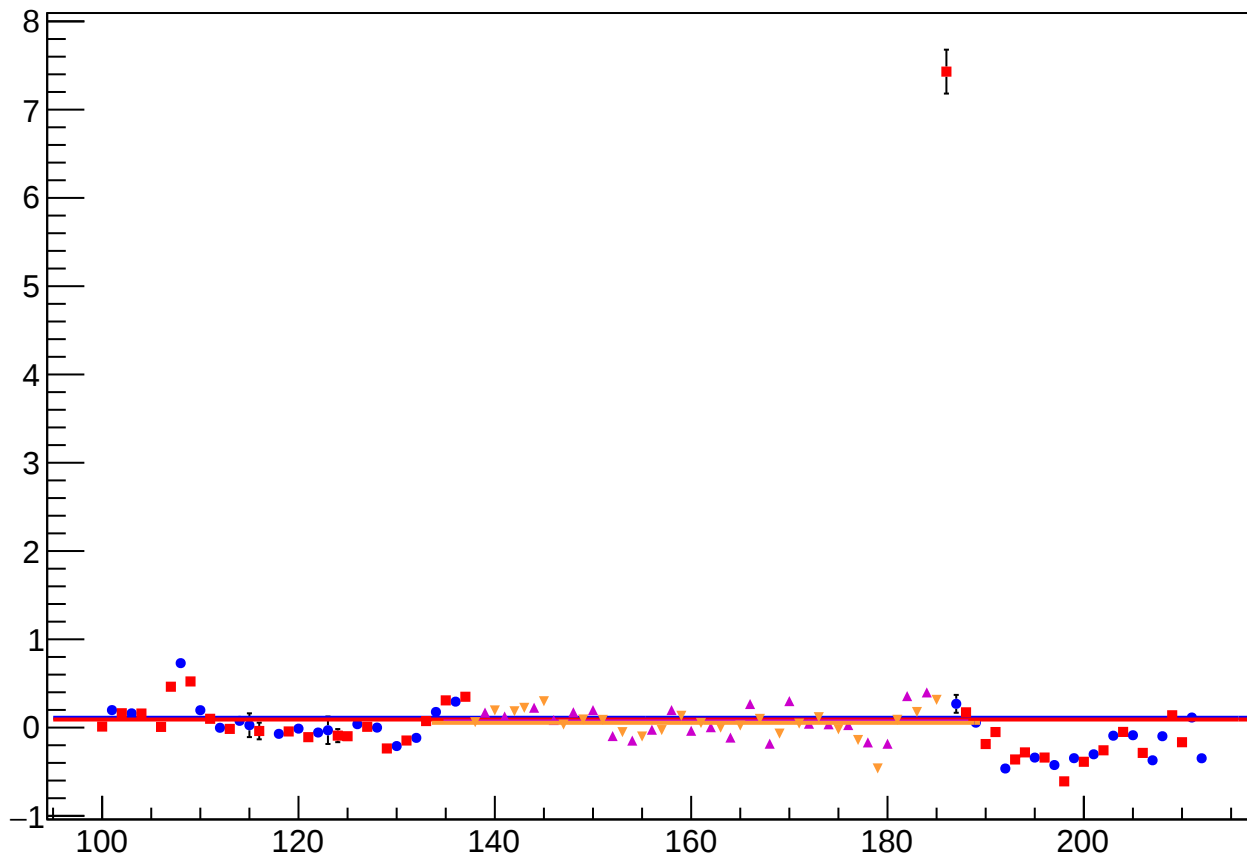
Right: 11.012+/-0.044 χ^2/NDF : 274554.7/62

In: 27.771+/-0.044 χ^2/NDF :341943.2/52

Out: 31.691+/-0.044 χ^2/NDF :304323.6/57

All: 29.710+/-0.031 χ^2/NDF : 650228.9/110

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.111+/-0.002 χ^2/NDF : 11711.1/29

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.091+/-0.002 χ^2/NDF : 10984.0/32

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

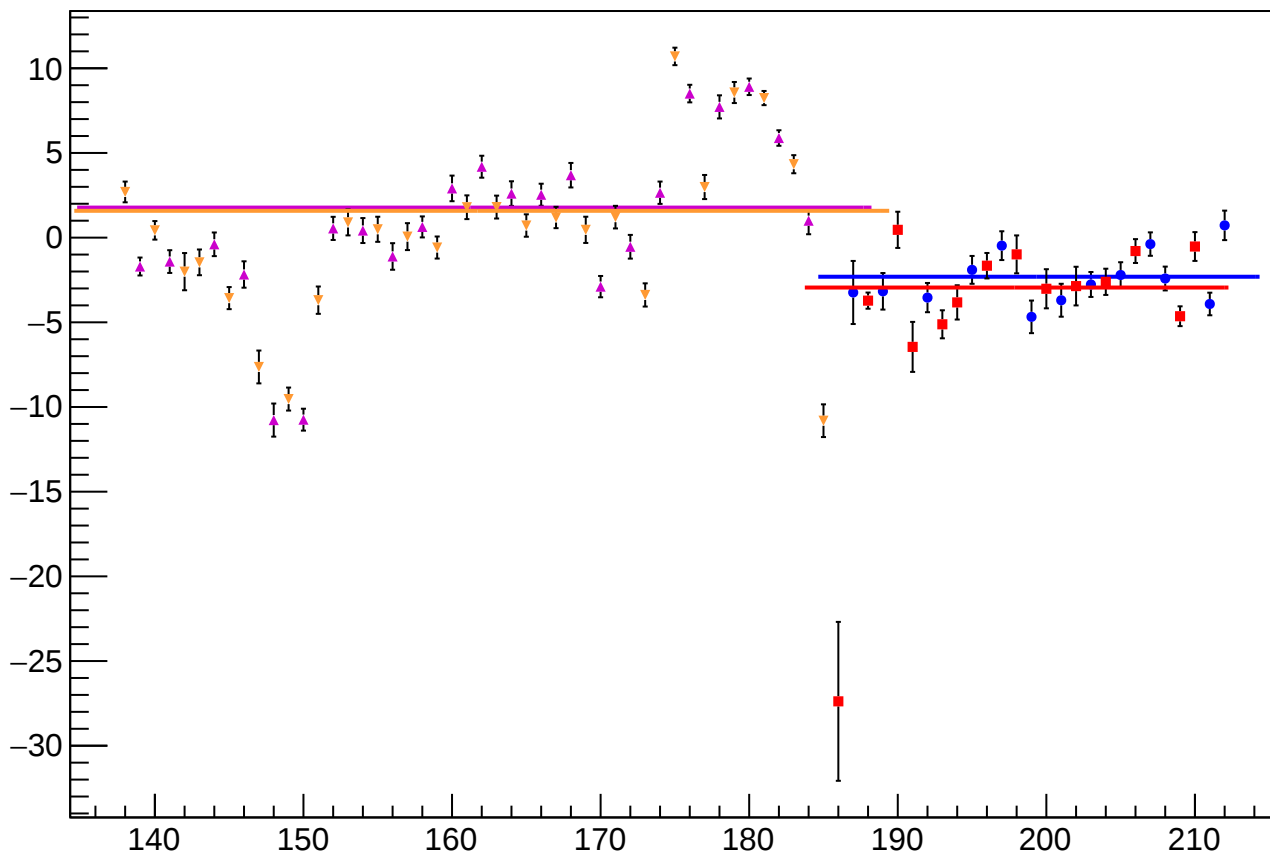
Right: 0.101+/-0.002 χ^2/NDF : 22728.6/62

In: 0.094+/-0.002 χ^2/NDF : 15061.7/52

Out: 0.076+/-0.002 χ^2/NDF : 13466.0/57

All: 0.085+/-0.001 χ^2/NDF : 28574.9/110

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.309 ± 0.231 χ^2/NDF : 42.1/12

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -2.946 ± 0.222 χ^2/NDF : 85.3/13

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

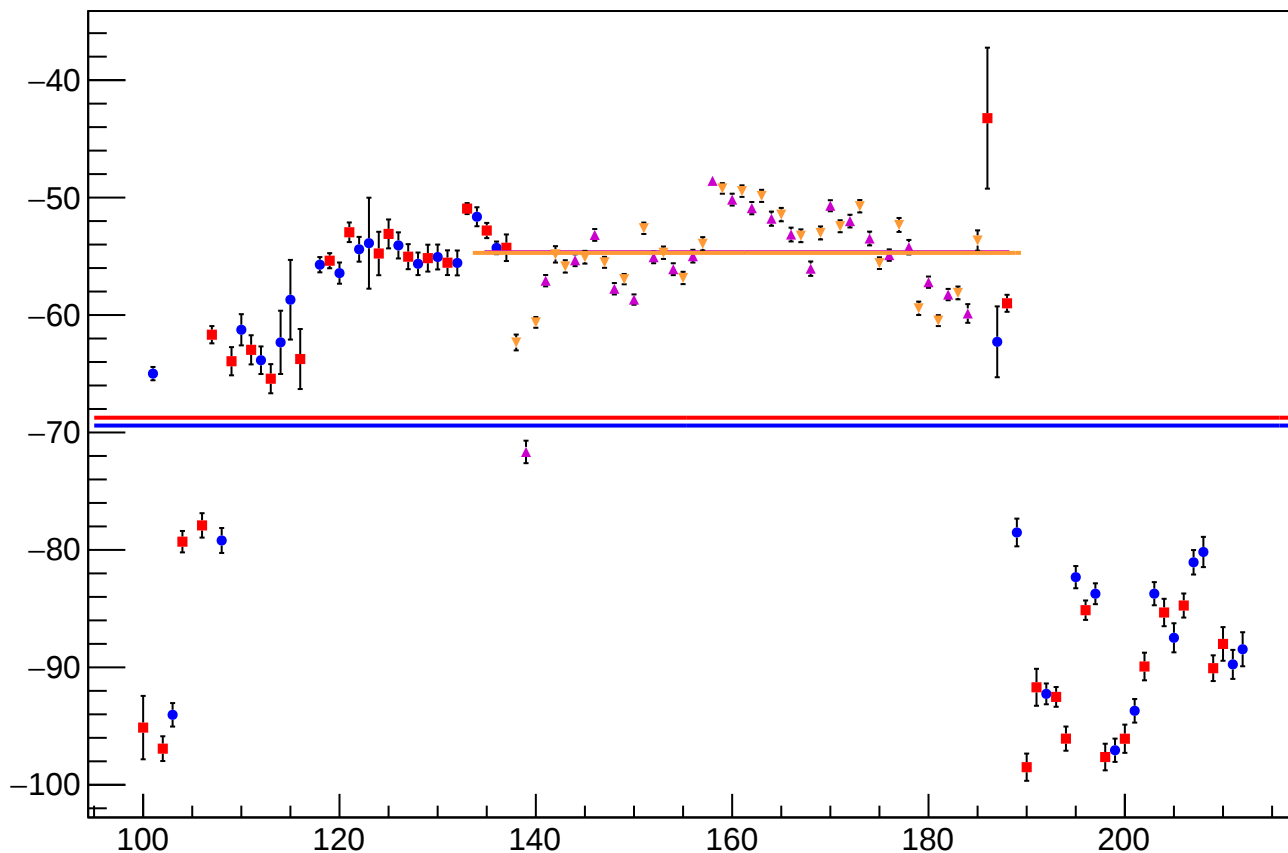
Right: -2.640 ± 0.160 χ^2/NDF : 131.3/26

In: 0.730 ± 0.117 χ^2/NDF : 1572.4/35

Out: 0.392 ± 0.114 χ^2/NDF : 1851.0/38

All: 0.557 ± 0.081 χ^2/NDF : 3427.7/74

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.411 ± 0.181 χ^2/NDF : 7322.6/29

Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24

Right Out: -68.742 ± 0.171 χ^2/NDF : 10311.9/32

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

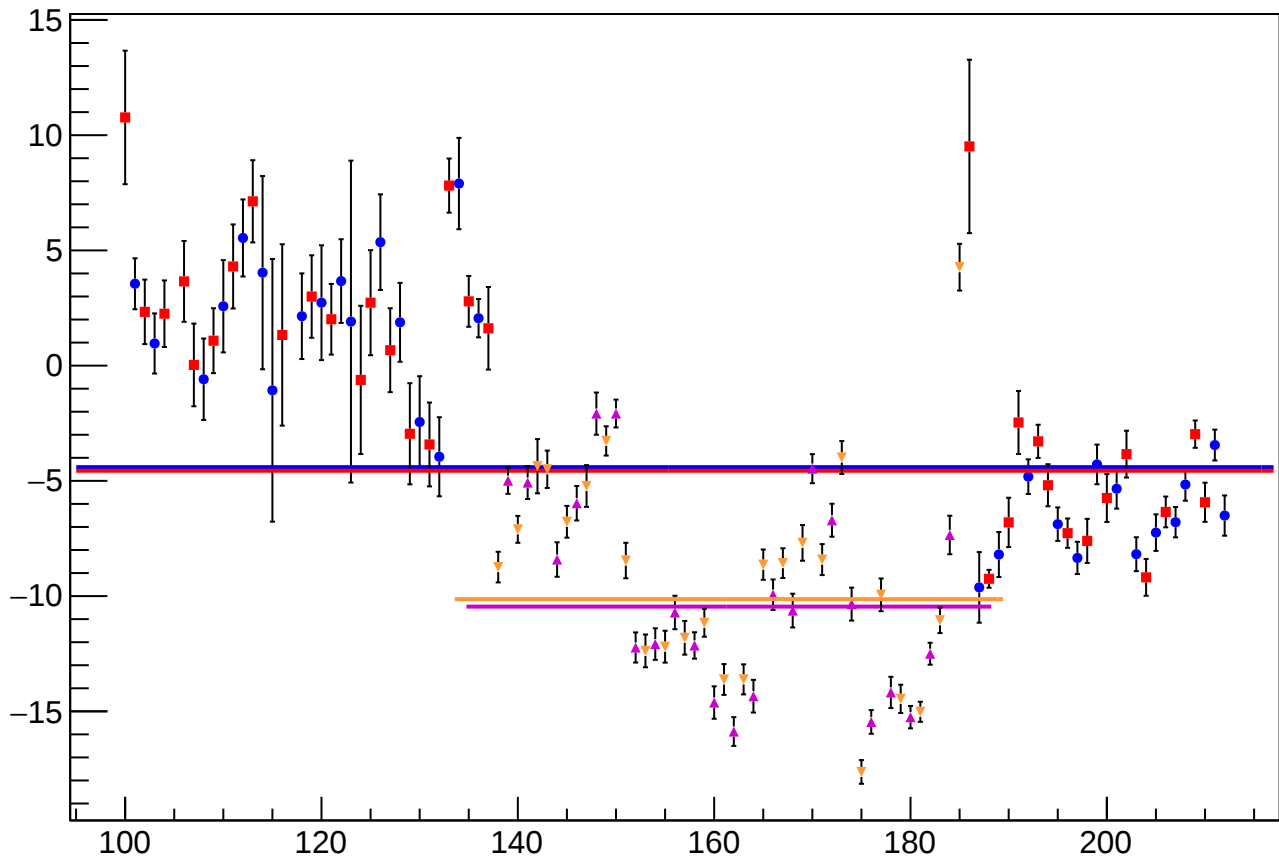
Right: -69.057 ± 0.124 χ^2/NDF : 17641.8/62

In: -58.622 ± 0.094 χ^2/NDF : 13264.8/52

Out: -58.597 ± 0.090 χ^2/NDF : 16325.0/57

All: -58.609 ± 0.065 χ^2/NDF : 29589.9/110

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.405 ± 0.191 χ^2/NDF : 435.0/29

Left Out: -10.131 ± 0.133 χ^2/NDF : 1055.4/24

Right Out: -4.560 ± 0.178 χ^2/NDF : 663.7/32

Left In: -10.456 ± 0.135 χ^2/NDF : 1002.7/22

Left: -10.291 ± 0.095 χ^2/NDF : 2061.1/47

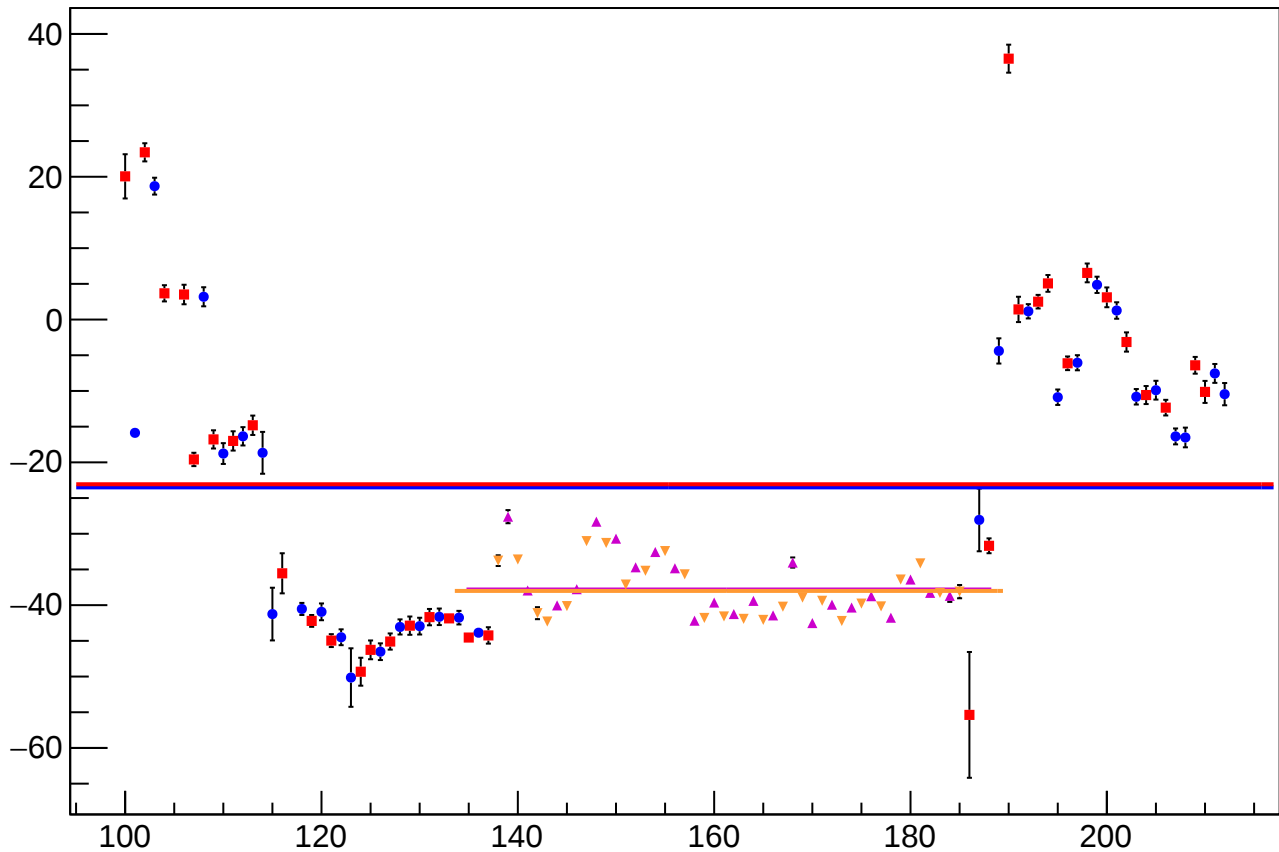
Right: -4.488 ± 0.131 χ^2/NDF : 1099.1/62

In: -8.454 ± 0.110 χ^2/NDF : 2106.1/52

Out: -8.146 ± 0.107 χ^2/NDF : 2346.3/57

All: -8.295 ± 0.077 χ^2/NDF : 4456.4/110

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.506 ± 0.206 $\chi^2/\text{NDF}: 8661.3/29$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -23.067 ± 0.198 $\chi^2/\text{NDF}: 11886.0/32$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

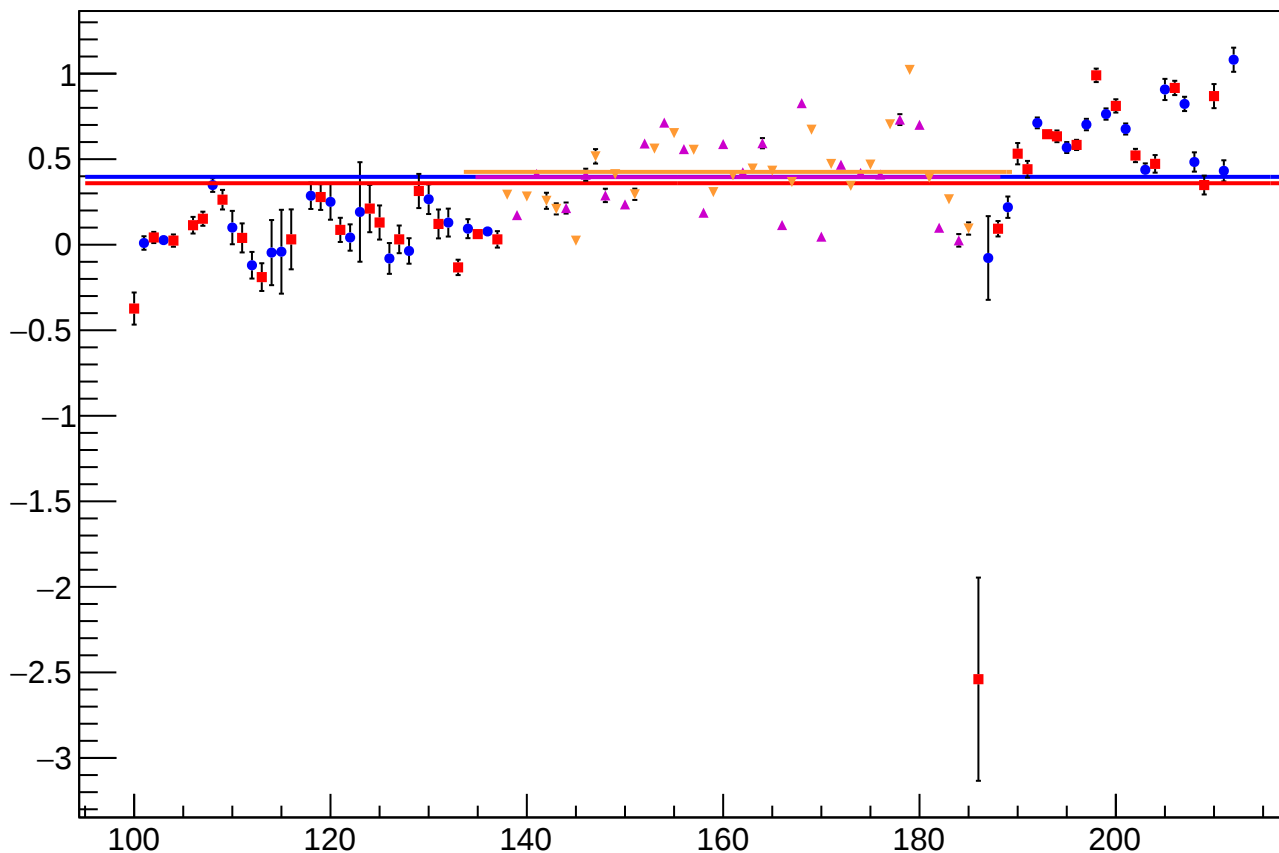
Right: -23.278 ± 0.143 $\chi^2/\text{NDF}: 20549.7/62$

In: -34.074 ± 0.105 $\chi^2/\text{NDF}: 13272.8/52$

Out: -34.062 ± 0.102 $\chi^2/\text{NDF}: 17011.4/57$

All: -34.068 ± 0.073 $\chi^2/\text{NDF}: 30284.2/110$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.397 $\pm$ 0.009 χ^2 /NDF: 1349.9/29

Left Out: 0.426 $\pm$ 0.005 χ^2 /NDF:1303.7/24

Right Out: 0.359 $\pm$ 0.008 χ^2 /NDF: 1627.9/32

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

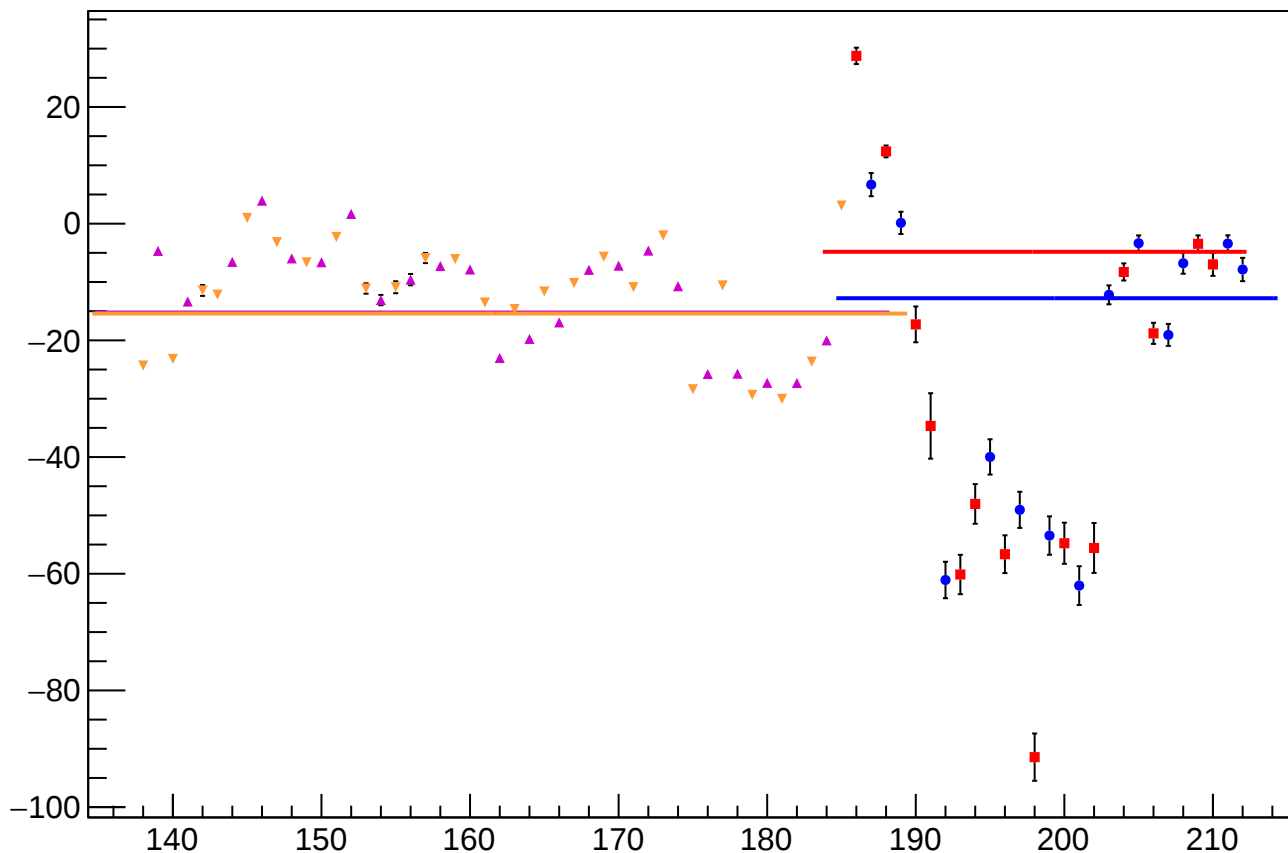
Right: 0.377 $\pm$ 0.006 χ^2 /NDF: 2987.5/62

In: 0.396 $\pm$ 0.005 χ^2 /NDF:3148.1/52

Out: 0.406 $\pm$ 0.005 χ^2 /NDF:2976.6/57

All: 0.401 $\pm$ 0.003 χ^2 /NDF: 6127.5/110

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.777 ± 0.550 $\chi^2/\text{NDF}: 1093.4/12$

Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$

Right Out: -4.821 ± 0.528 $\chi^2/\text{NDF}: 2453.8/13$

Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

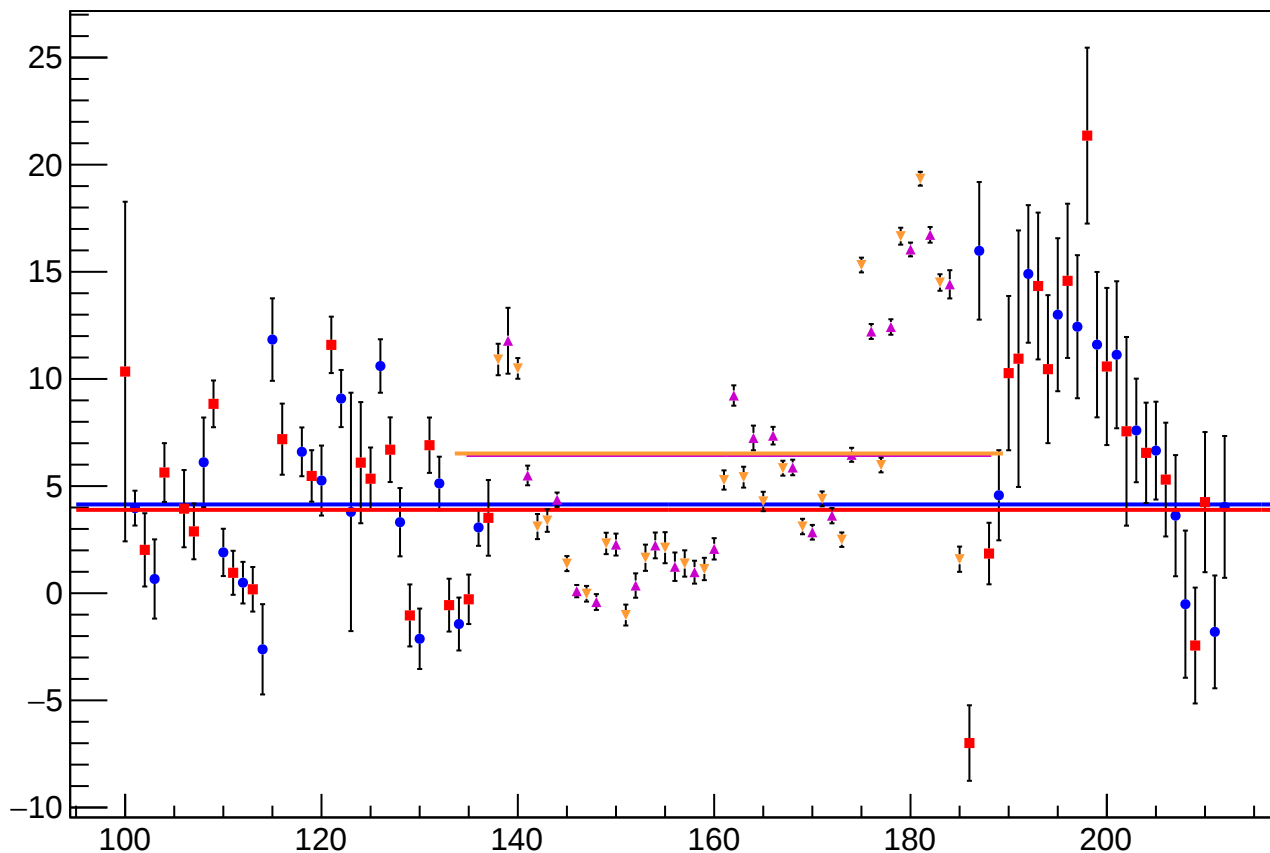
Right: -8.633 ± 0.381 $\chi^2/\text{NDF}: 3656.1/26$

In: -15.140 ± 0.105 $\chi^2/\text{NDF}: 9769.9/35$

Out: -15.007 ± 0.103 $\chi^2/\text{NDF}: 13350.5/38$

All: -15.073 ± 0.074 $\chi^2/\text{NDF}: 23121.2/74$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.143 $\pm$ 0.290 χ^2 /NDF: 193.7/29

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF: 4985.2/24

Right Out: 3.891 $\pm$ 0.290 χ^2 /NDF: 229.3/32

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

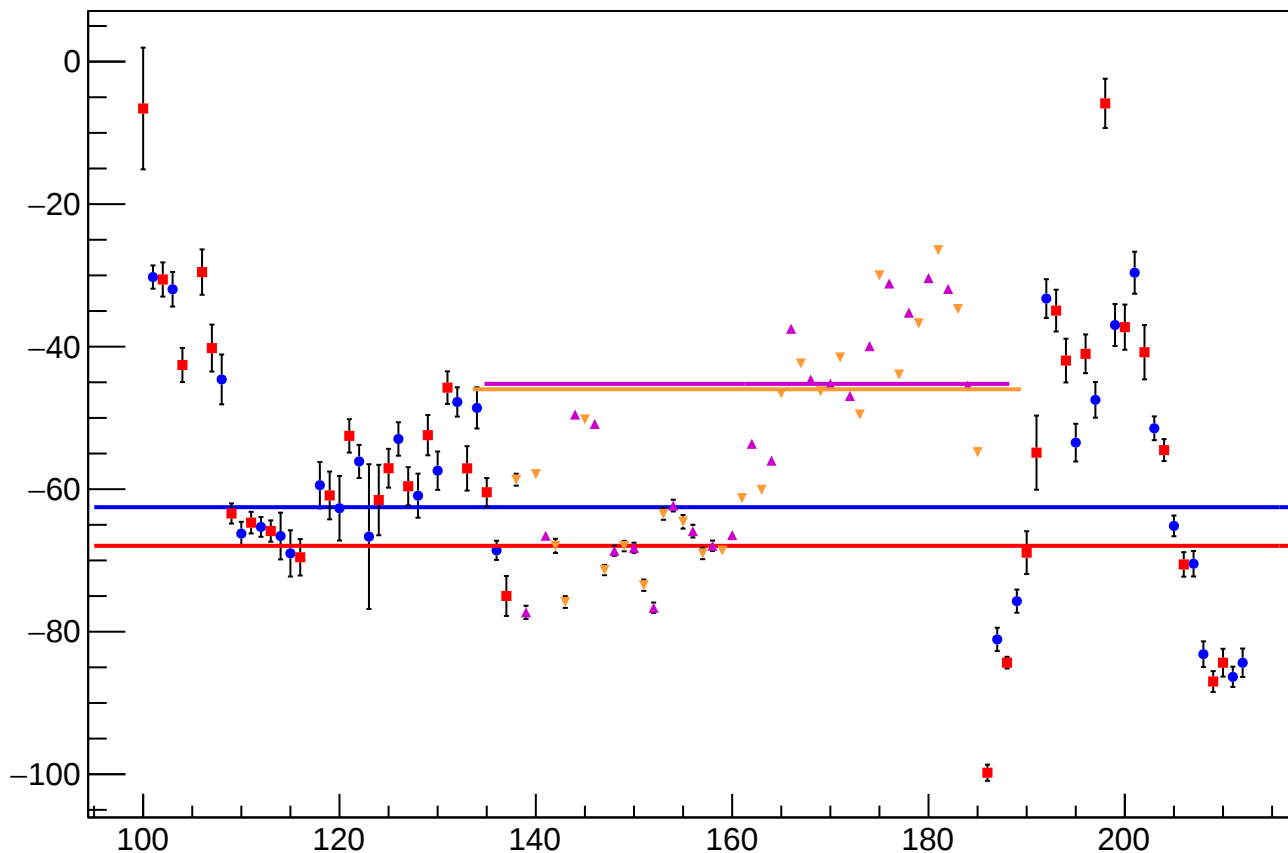
Right: 4.017 $\pm$ 0.205 χ^2 /NDF: 423.3/62

In: 6.265 $\pm$ 0.083 χ^2 /NDF: 4200.1/52

Out: 6.311 $\pm$ 0.082 χ^2 /NDF: 5290.0/57

All: 6.288 $\pm$ 0.058 χ^2 /NDF: 9490.2/110

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.528 ± 0.378 χ^2/NDF : 1872.8/29

Left Out: -45.982 ± 0.106 χ^2/NDF : 17360.1/24

Right Out: -67.948 ± 0.354 χ^2/NDF : 3154.4/32

Left In: -45.222 ± 0.107 χ^2/NDF : 15600.2/22

Left: -45.605 ± 0.075 χ^2/NDF : 32985.7/47

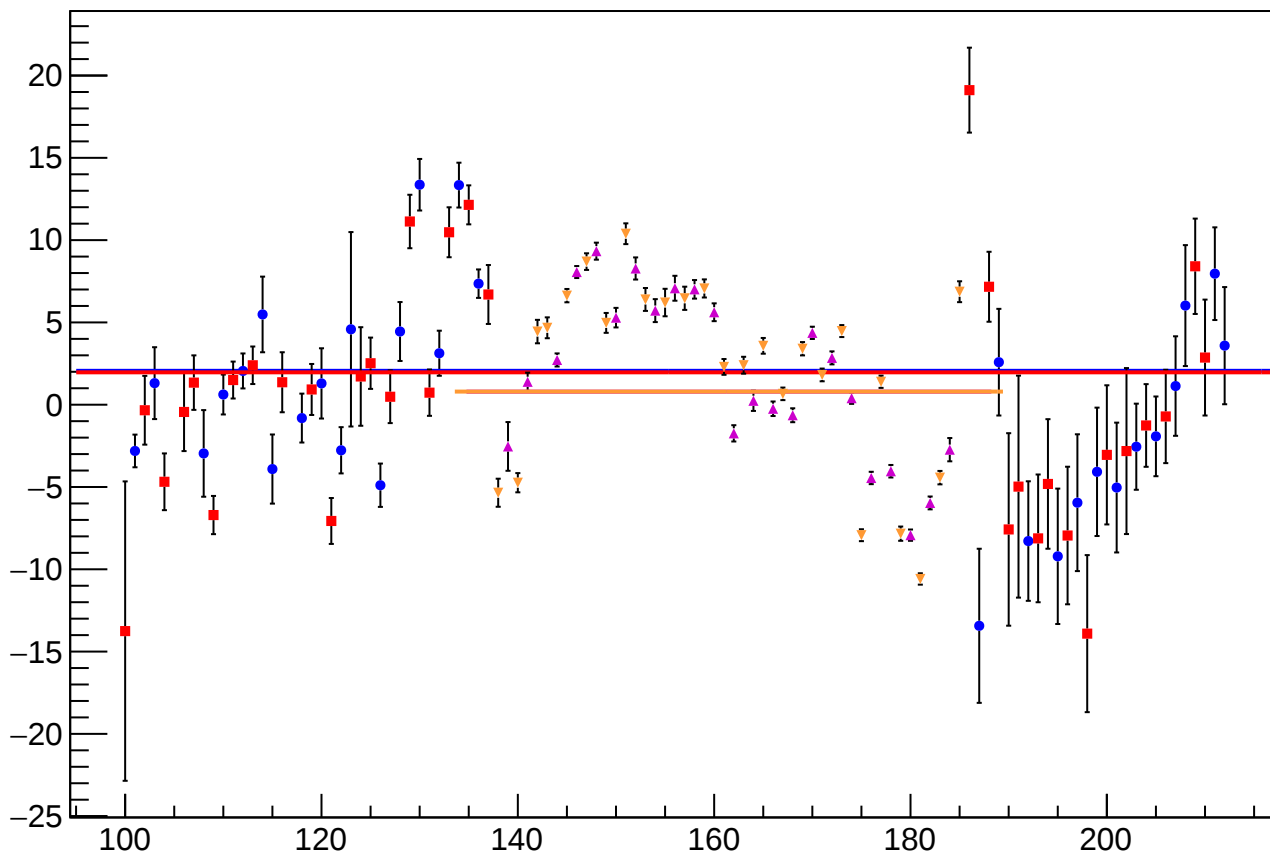
Right: -65.419 ± 0.258 χ^2/NDF : 5136.9/62

In: -46.509 ± 0.103 χ^2/NDF : 19412.0/52

Out: -47.801 ± 0.102 χ^2/NDF : 24053.8/57

All: -47.164 ± 0.072 χ^2/NDF : 43545.3/110

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.058 $\pm$ 0.326 χ^2 /NDF: 291.6/29

Left Out: 0.797 $\pm$ 0.096 χ^2 /NDF:3760.0/24

Right Out: 1.967 $\pm$ 0.331 χ^2 /NDF: 354.8/32

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

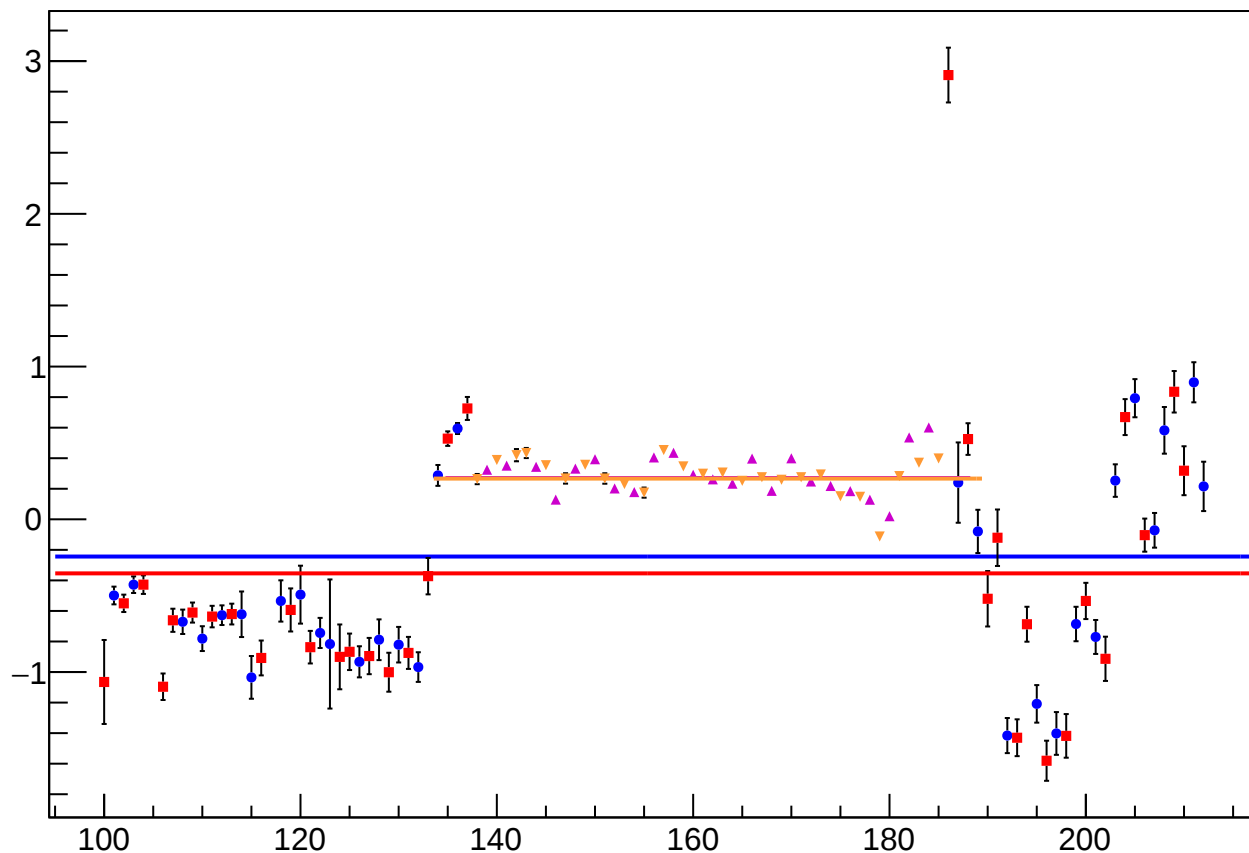
Right: 2.014 $\pm$ 0.232 χ^2 /NDF: 646.4/62

In: 0.895 $\pm$ 0.093 χ^2 /NDF:2998.0/52

Out: 0.888 $\pm$ 0.092 χ^2 /NDF:4126.3/57

All: 0.891 $\pm$ 0.065 χ^2 /NDF: 7124.2/110

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.244 ± 0.017 χ^2/NDF : 1439.9/29

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.354 ± 0.017 χ^2/NDF : 1677.6/32

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

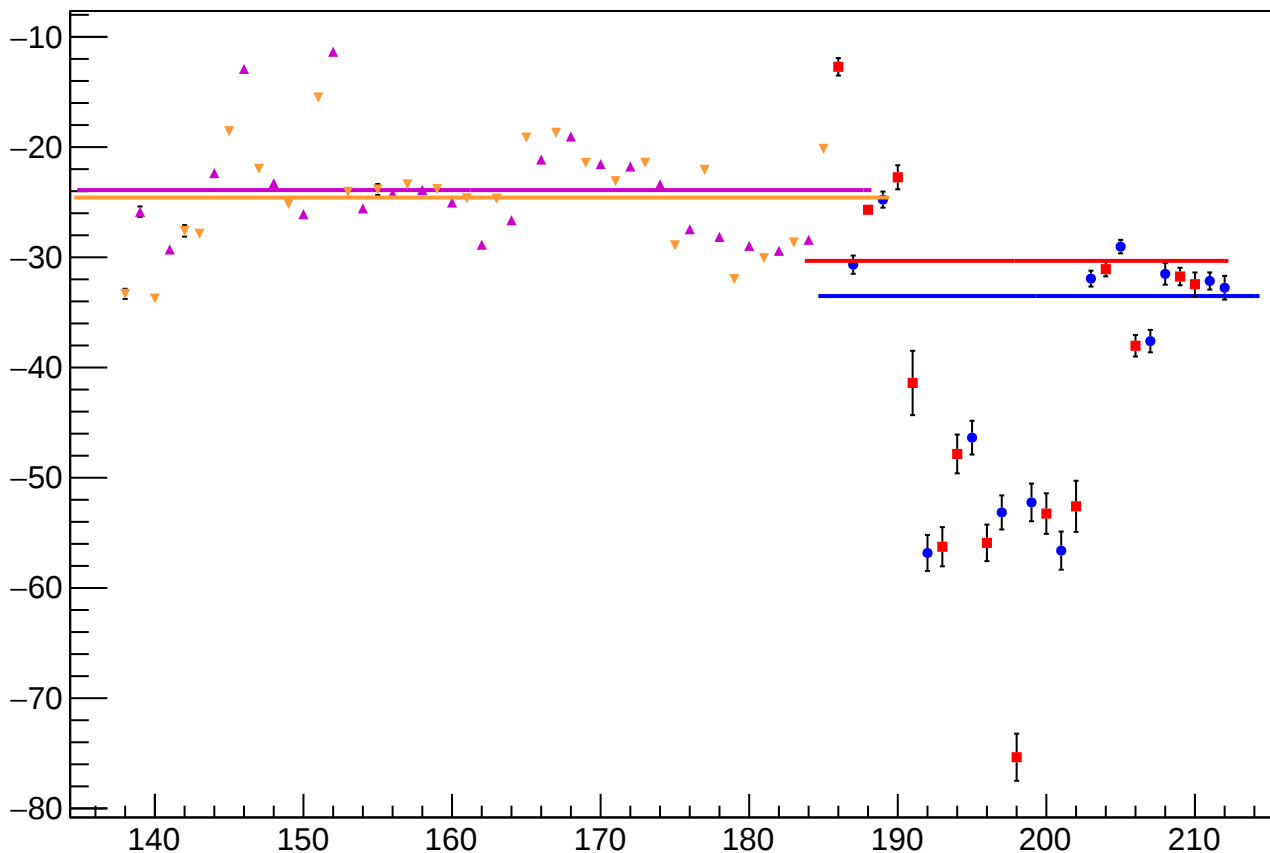
Right: -0.299 ± 0.012 χ^2/NDF : 3139.2/62

In: 0.237 ± 0.004 χ^2/NDF : 3293.6/52

Out: 0.227 ± 0.004 χ^2/NDF : 3666.4/57

All: 0.232 ± 0.003 χ^2/NDF : 6962.5/110

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.514 ± 0.264 χ^2/NDF : 970.4/12
 Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24
 Right Out: -30.322 ± 0.254 χ^2/NDF : 1983.0/13
 Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

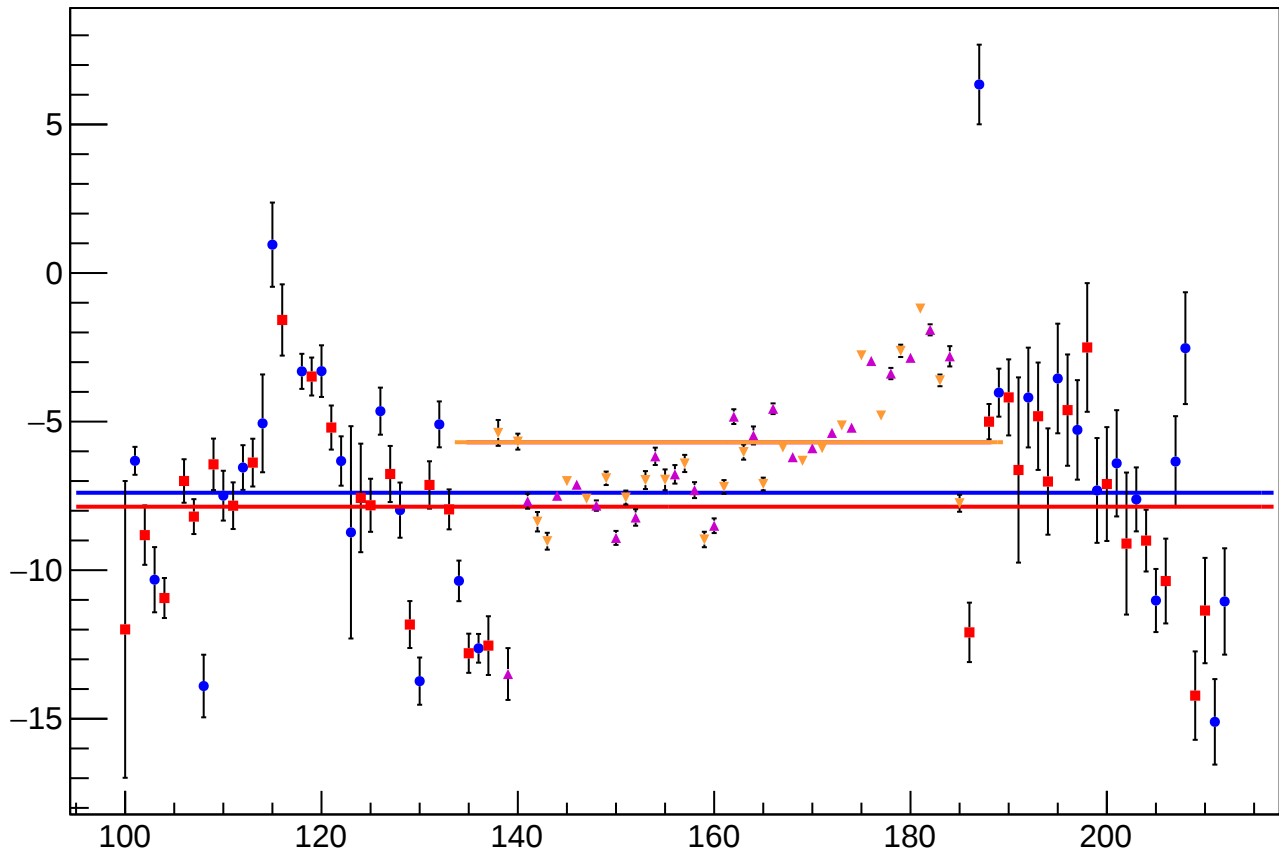
Right: -31.855 ± 0.183 χ^2/NDF : 3029.2/26

In: -24.247 ± 0.050 χ^2/NDF : 11400.8/35

Out: -24.800 ± 0.050 χ^2/NDF : 11065.1/38

All: -24.525 ± 0.035 χ^2/NDF : 22526.8/74

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.394 ± 0.168 χ^2/NDF : 565.6/29

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.864 ± 0.164 χ^2/NDF : 312.0/32

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

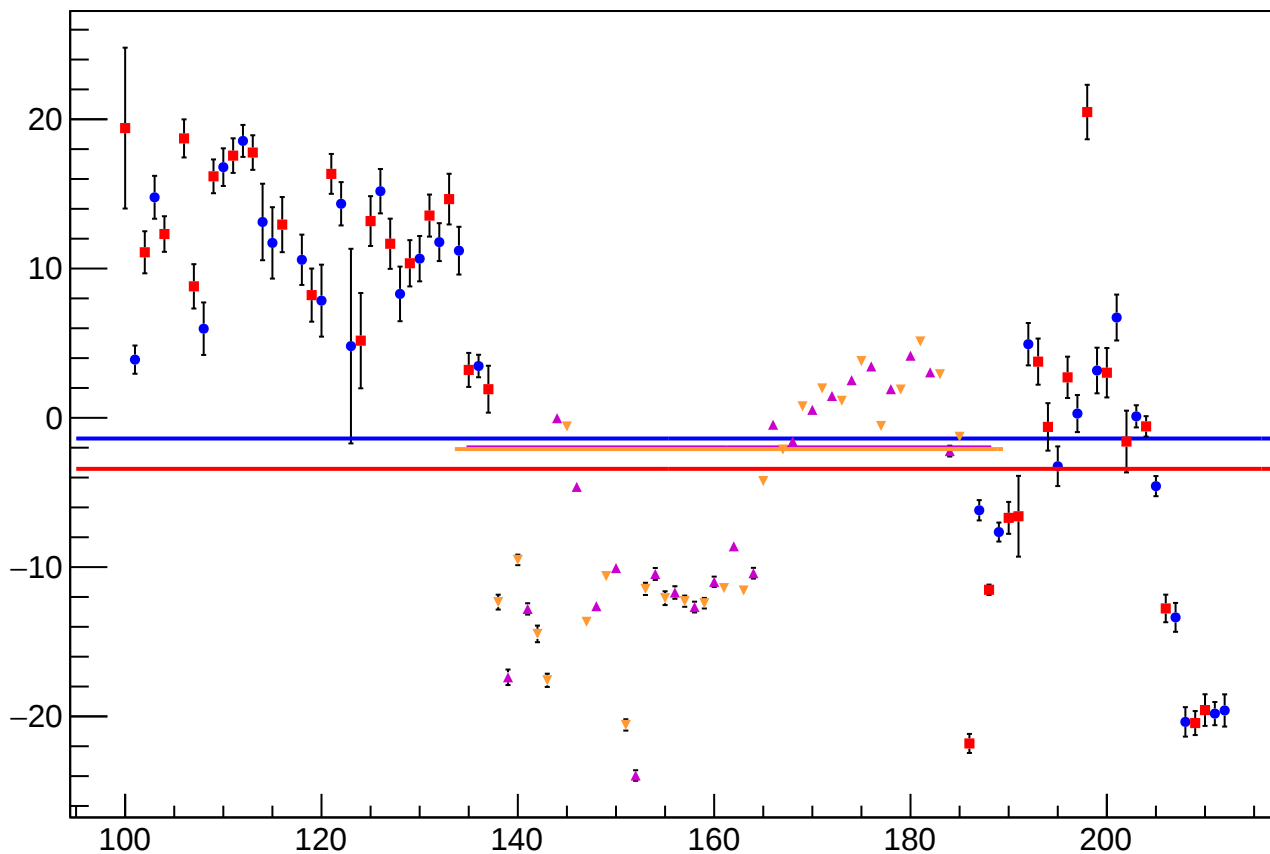
Right: -7.635 ± 0.117 χ^2/NDF : 881.6/62

In: -5.791 ± 0.040 χ^2/NDF : 2971.9/52

Out: -5.822 ± 0.040 χ^2/NDF : 2734.9/57

All: -5.806 ± 0.028 χ^2/NDF : 5707.1/110

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.386 ± 0.202 χ^2/NDF : 3003.6/29

Left Out: -2.092 ± 0.051 χ^2/NDF : 16305.3/24

Right Out: -3.418 ± 0.186 χ^2/NDF : 4964.2/32

Left In: -1.980 ± 0.051 χ^2/NDF : 15382.3/22

Left: -2.036 ± 0.036 χ^2/NDF : 31690.0/47

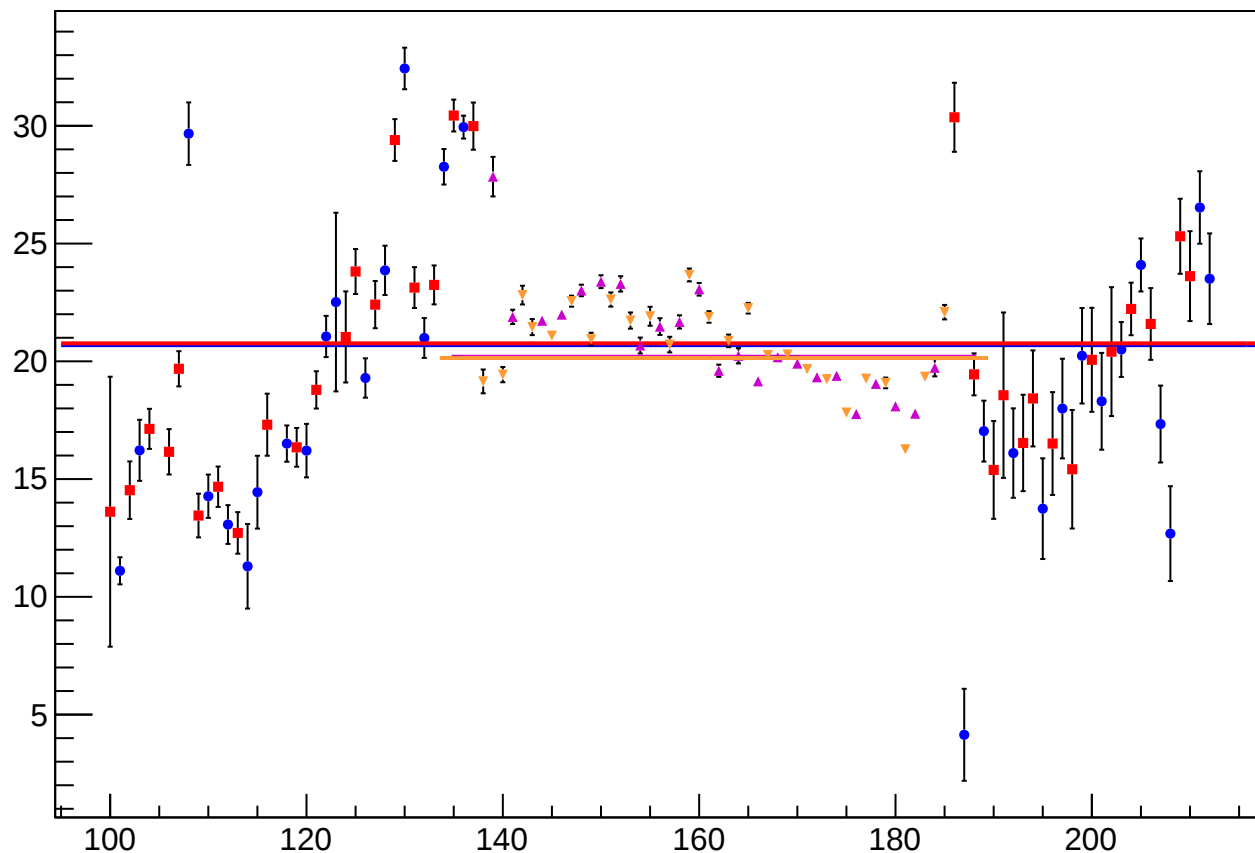
Right: -2.483 ± 0.137 χ^2/NDF : 8022.5/62

In: -1.944 ± 0.050 χ^2/NDF : 18394.0/52

Out: -2.186 ± 0.050 χ^2/NDF : 21316.6/57

All: -2.065 ± 0.035 χ^2/NDF : 39722.5/110

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.686 $\pm$ 0.191 χ^2 /NDF: 1357.1/29

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.764 $\pm$ 0.192 χ^2 /NDF: 800.4/32

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

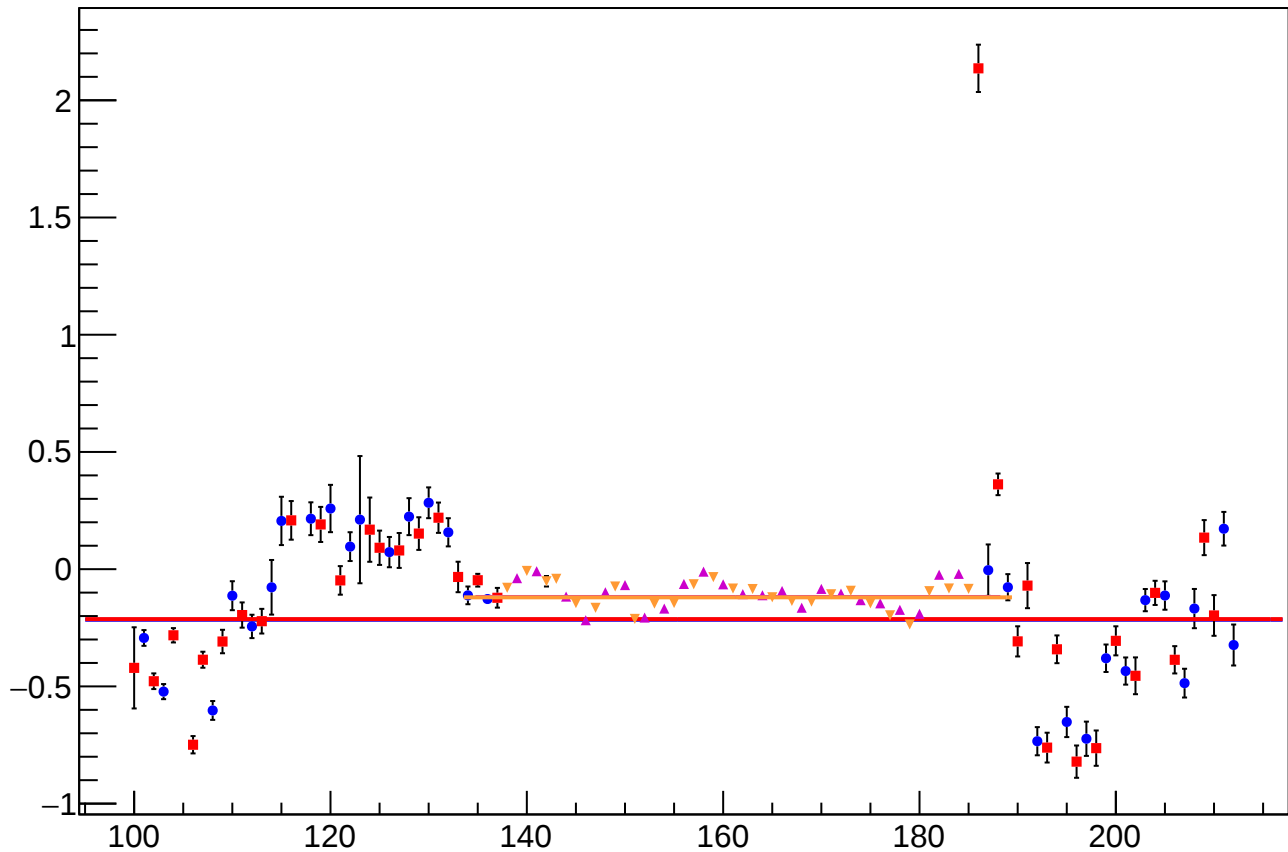
Right: 20.725 $\pm$ 0.135 χ^2 /NDF: 2157.6/62

In: 20.221 $\pm$ 0.045 χ^2 /NDF:2810.7/52

Out: 20.175 $\pm$ 0.045 χ^2 /NDF:2229.5/57

All: 20.198 $\pm$ 0.032 χ^2 /NDF: 5040.7/110

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.216 ± 0.009 $\chi^2/\text{NDF}: 729.0/29$

Left Out: -0.120 ± 0.002 $\chi^2/\text{NDF}: 530.4/24$

Right Out: -0.213 ± 0.009 $\chi^2/\text{NDF}: 1492.2/32$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 721.8/22$

Left: -0.119 ± 0.001 $\chi^2/\text{NDF}: 1252.4/47$

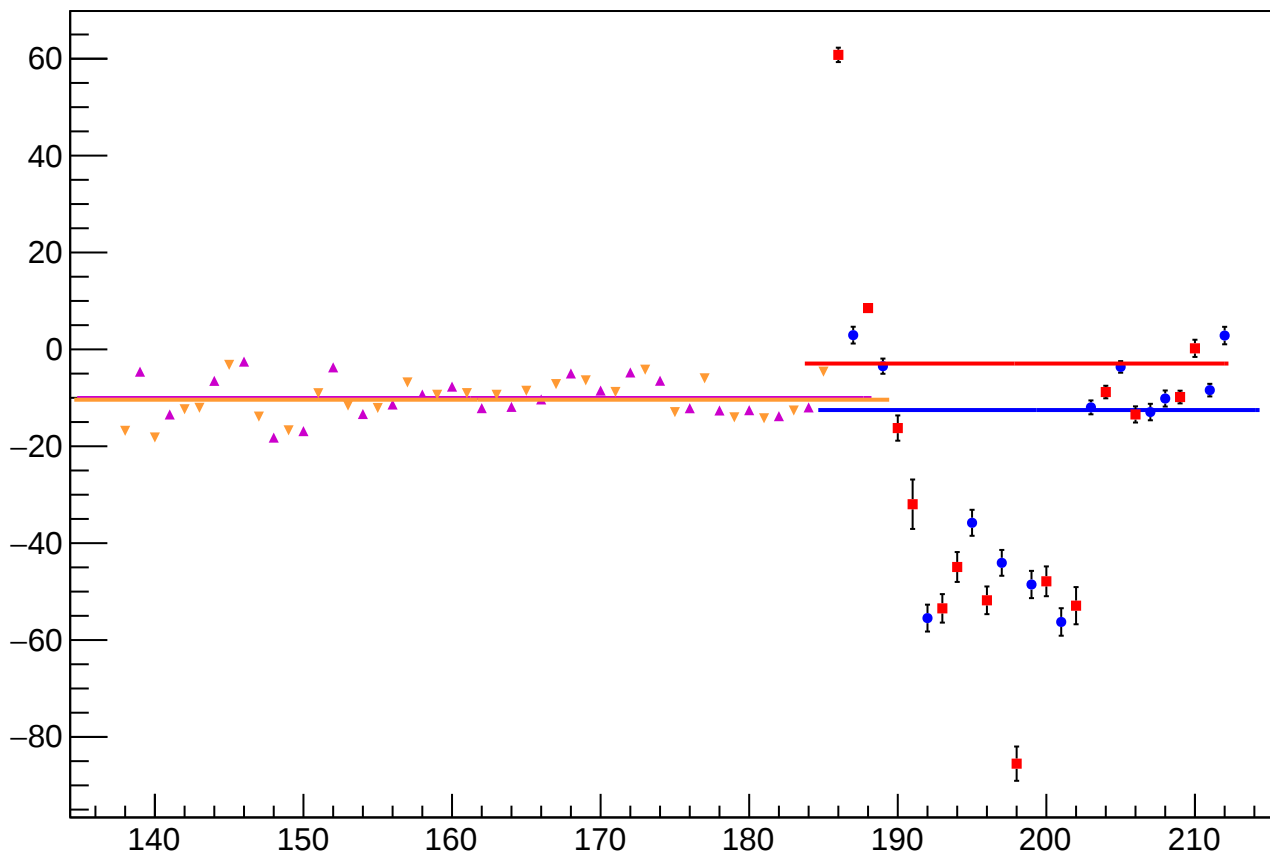
Right: -0.214 ± 0.007 $\chi^2/\text{NDF}: 2221.2/62$

In: -0.123 ± 0.002 $\chi^2/\text{NDF}: 1550.4/52$

Out: -0.125 ± 0.002 $\chi^2/\text{NDF}: 2117.6/57$

All: -0.124 ± 0.001 $\chi^2/\text{NDF}: 3668.3/110$

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.522 ± 0.488 $\chi^2/\text{NDF}: 1109.2/12$

Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$

Right Out: -2.925 ± 0.474 $\chi^2/\text{NDF}: 3865.8/13$

Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$

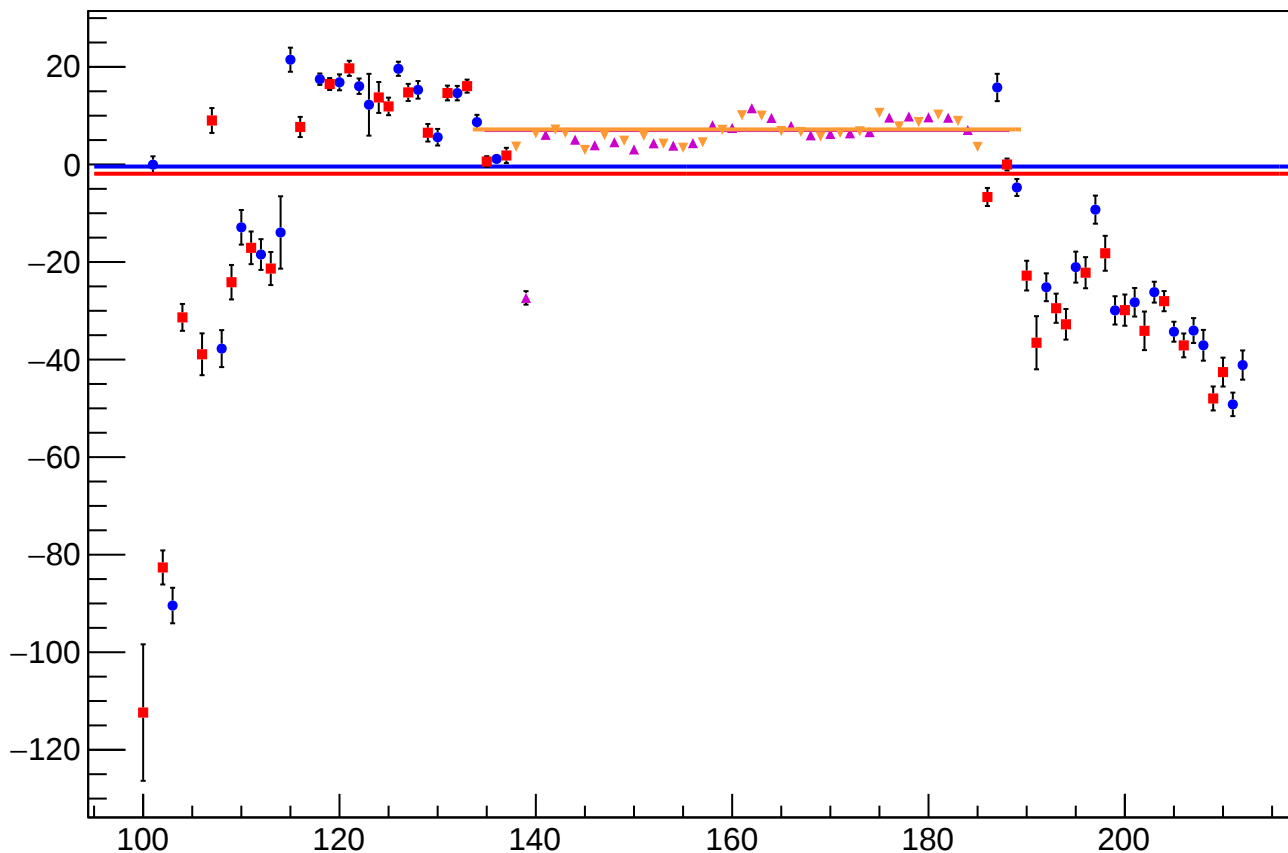
Right: -7.585 ± 0.340 $\chi^2/\text{NDF}: 5173.7/26$

In: -10.117 ± 0.088 $\chi^2/\text{NDF}: 2892.9/35$

Out: -10.143 ± 0.086 $\chi^2/\text{NDF}: 6216.8/38$

All: -10.130 ± 0.062 $\chi^2/\text{NDF}: 9109.8/74$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.429 ± 0.352 χ^2/NDF : 3400.9/29

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: -1.900 ± 0.362 χ^2/NDF : 3236.4/32

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

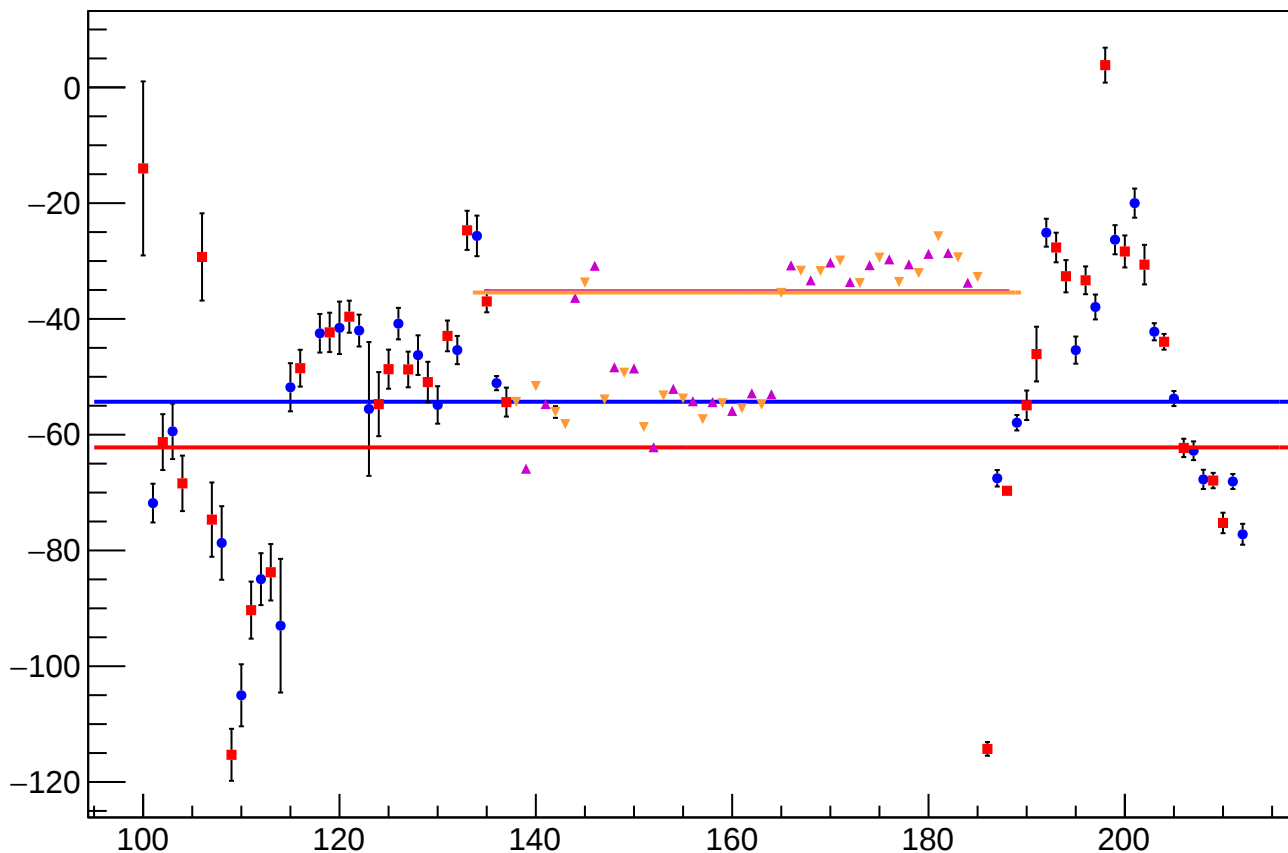
Right: -1.144 ± 0.252 χ^2/NDF : 6645.8/62

In: 6.735 ± 0.073 χ^2/NDF : 5369.0/52

Out: 6.825 ± 0.072 χ^2/NDF : 4758.4/57

All: 6.780 ± 0.051 χ^2/NDF : 10128.3/110

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected

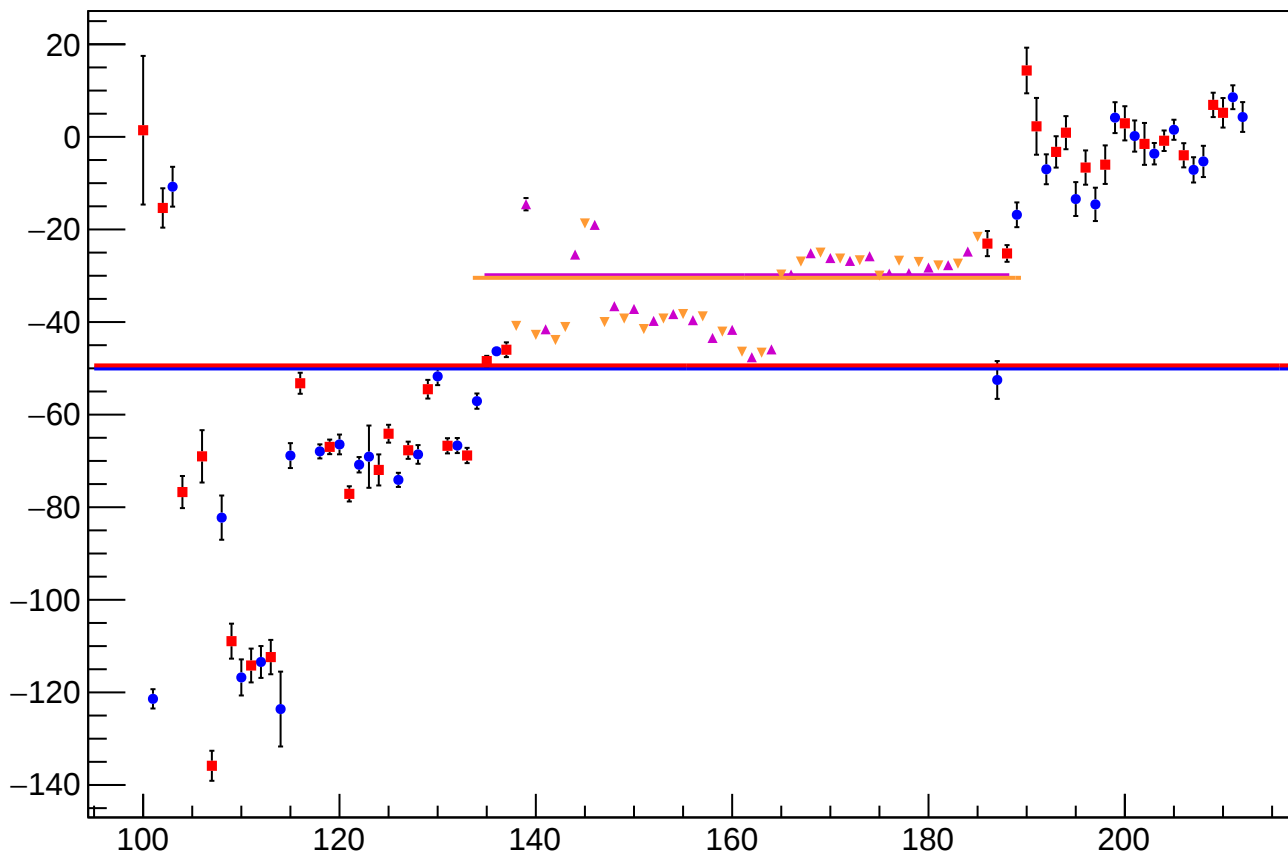


Right In: -54.310 $\pm$ 0.394 χ^2 /NDF: 1403.1/29
 Left Out: -35.434 $\pm$ 0.089 χ^2 /NDF:12782.8/24
 Right Out: -62.195 $\pm$ 0.374 χ^2 /NDF: 4225.3/32
 Left In: -35.229 $\pm$ 0.090 χ^2 /NDF:11602.9/22

Left: -35.333 $\pm$ 0.063 χ^2 /NDF: 24388.3/47
 Right: -58.461 $\pm$ 0.271 χ^2 /NDF: 5839.3/62
 In: -36.178 $\pm$ 0.088 χ^2 /NDF:15236.1/52
 Out: -36.871 $\pm$ 0.087 χ^2 /NDF:21862.4/57

All: -36.529 $\pm$ 0.062 χ^2 /NDF: 37130.1/110

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -50.029 ± 0.394 $\chi^2/\text{NDF}: 6112.5/29$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -49.369 ± 0.415 $\chi^2/\text{NDF}: 5567.3/32$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

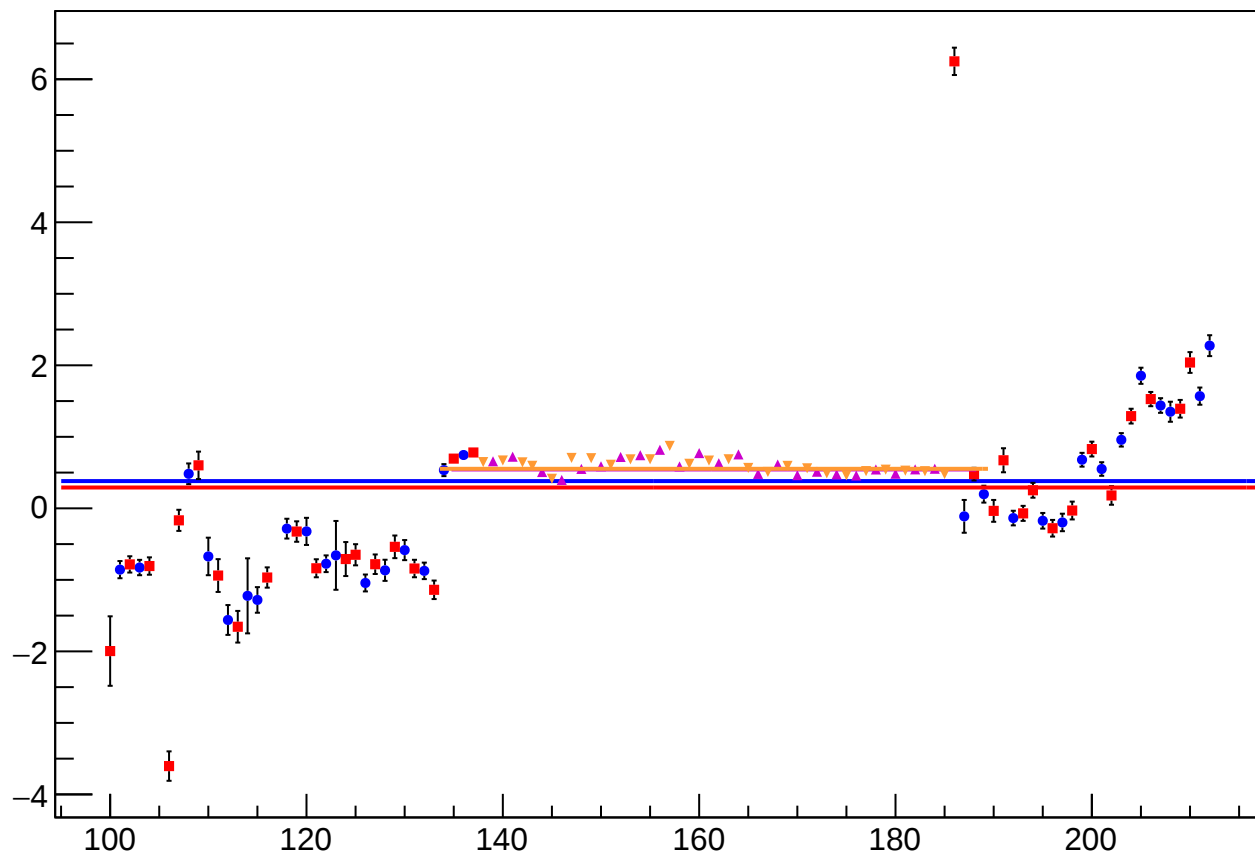
Right: -49.716 ± 0.286 $\chi^2/\text{NDF}: 11681.2/62$

In: -30.740 ± 0.081 $\chi^2/\text{NDF}: 15732.5/52$

Out: -31.150 ± 0.080 $\chi^2/\text{NDF}: 15732.3/57$

All: -30.947 ± 0.057 $\chi^2/\text{NDF}: 31477.7/110$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.381 $\pm$ 0.019 χ^2 /NDF: 1798.8/29

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.291 $\pm$ 0.020 χ^2 /NDF: 2864.0/32

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

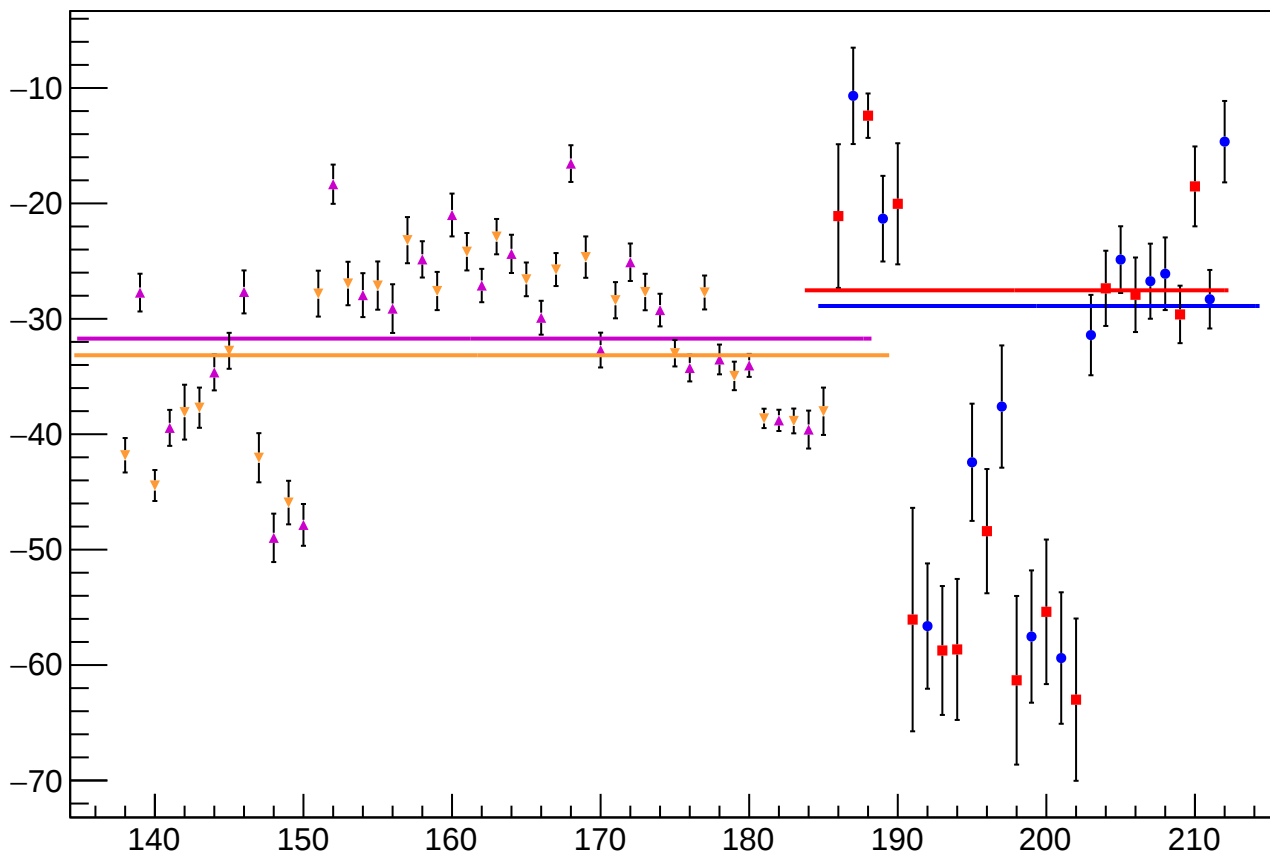
Right: 0.339 $\pm$ 0.014 χ^2 /NDF: 4673.2/62

In: 0.538 $\pm$ 0.004 χ^2 /NDF:2524.3/52

Out: 0.544 $\pm$ 0.004 χ^2 /NDF:3568.6/57

All: 0.541 $\pm$ 0.003 χ^2 /NDF: 6094.6/110

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -28.889 ± 1.035 χ^2/NDF : 132.8/12

Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24

Right Out: -27.531 ± 1.034 χ^2/NDF : 220.0/13

Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47

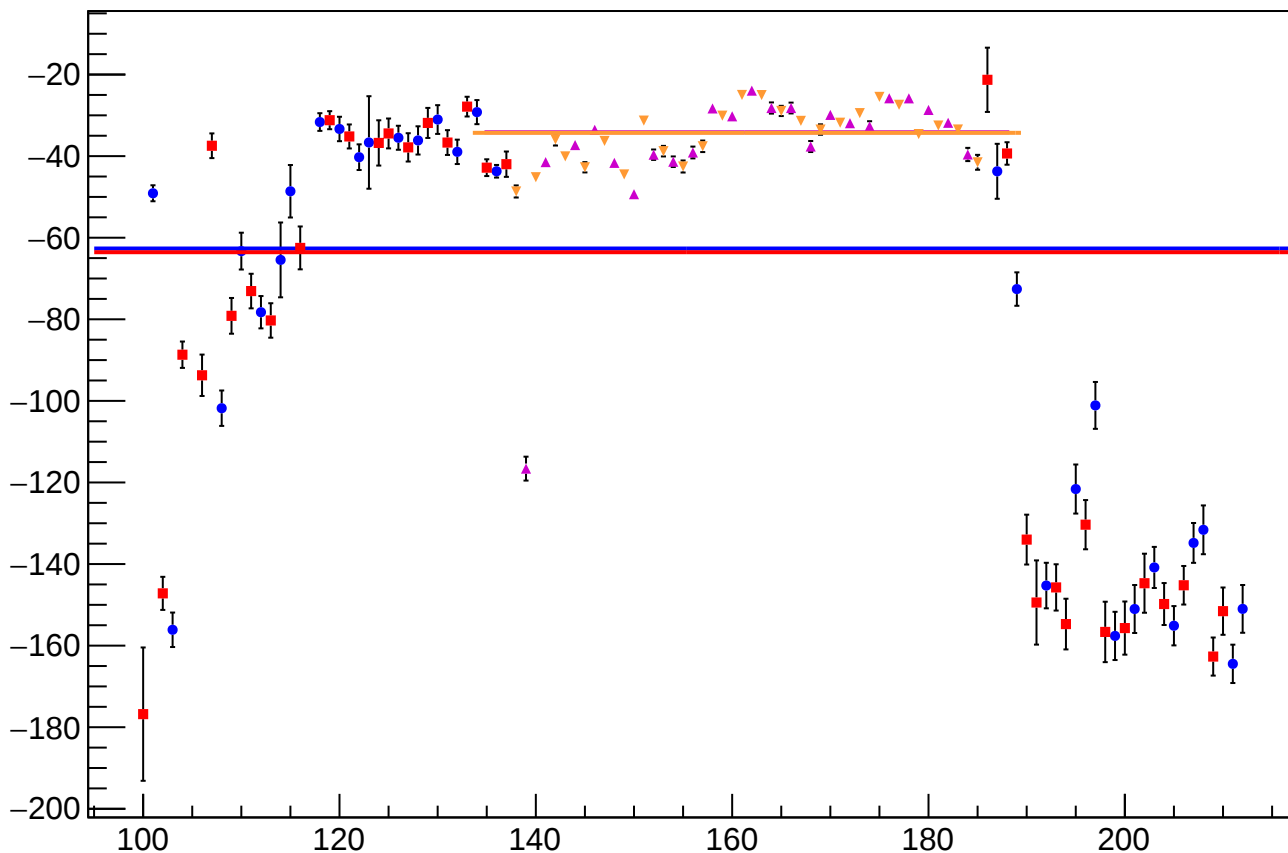
Right: -28.209 ± 0.732 χ^2/NDF : 353.6/26

In: -31.483 ± 0.296 χ^2/NDF : 681.9/35

Out: -32.719 ± 0.288 χ^2/NDF : 747.4/38

All: -32.118 ± 0.207 χ^2/NDF : 1438.2/74

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -62.647 ± 0.655 $\chi^2/\text{NDF}: 4074.6/29$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -63.553 ± 0.674 $\chi^2/\text{NDF}: 4244.9/32$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

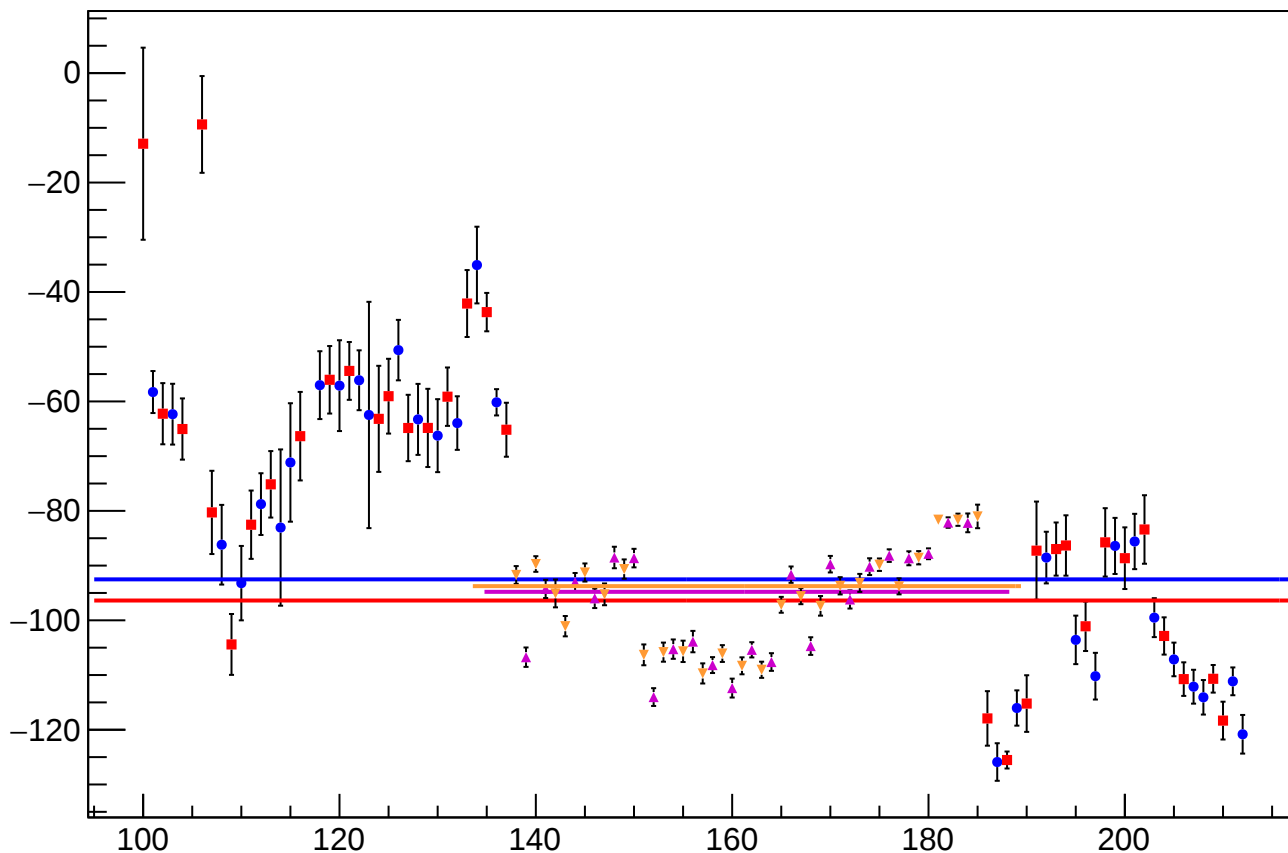
Right: -63.087 ± 0.470 $\chi^2/\text{NDF}: 8320.3/62$

In: -37.788 ± 0.234 $\chi^2/\text{NDF}: 7178.0/52$

Out: -37.613 ± 0.227 $\chi^2/\text{NDF}: 6609.4/57$

All: -37.698 ± 0.163 $\chi^2/\text{NDF}: 13787.6/110$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -92.517 ± 0.788 $\chi^2/\text{NDF}: 1000.2/29$

Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$

Right Out: -96.381 ± 0.774 $\chi^2/\text{NDF}: 1314.3/32$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

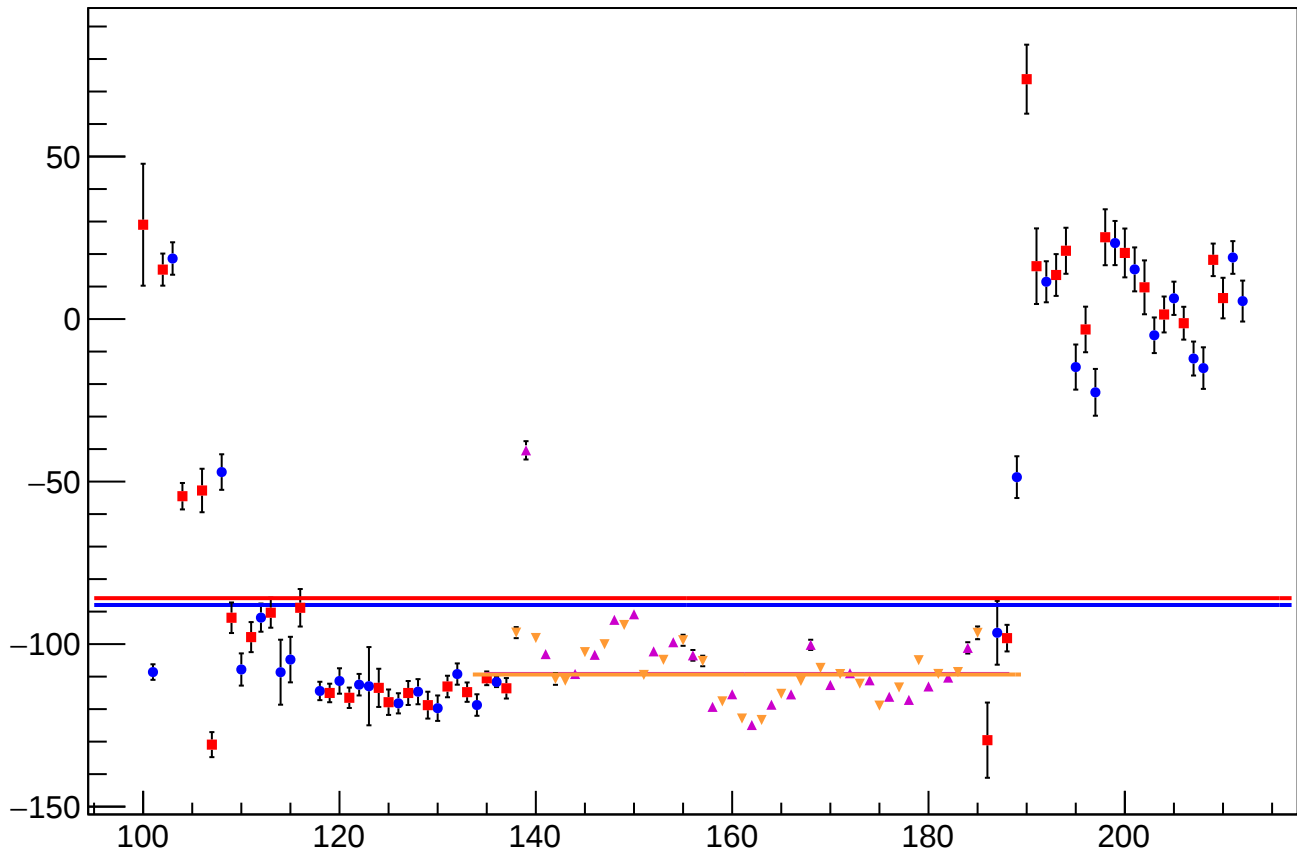
Right: -94.484 ± 0.552 $\chi^2/\text{NDF}: 2326.7/62$

In: -94.493 ± 0.287 $\chi^2/\text{NDF}: 1982.1/52$

Out: -94.100 ± 0.281 $\chi^2/\text{NDF}: 2207.4/57$

All: -94.293 ± 0.201 $\chi^2/\text{NDF}: 4190.5/110$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -87.964 ± 0.738 $\chi^2/\text{NDF}: 3927.8/29$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -85.864 ± 0.773 $\chi^2/\text{NDF}: 4092.2/32$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

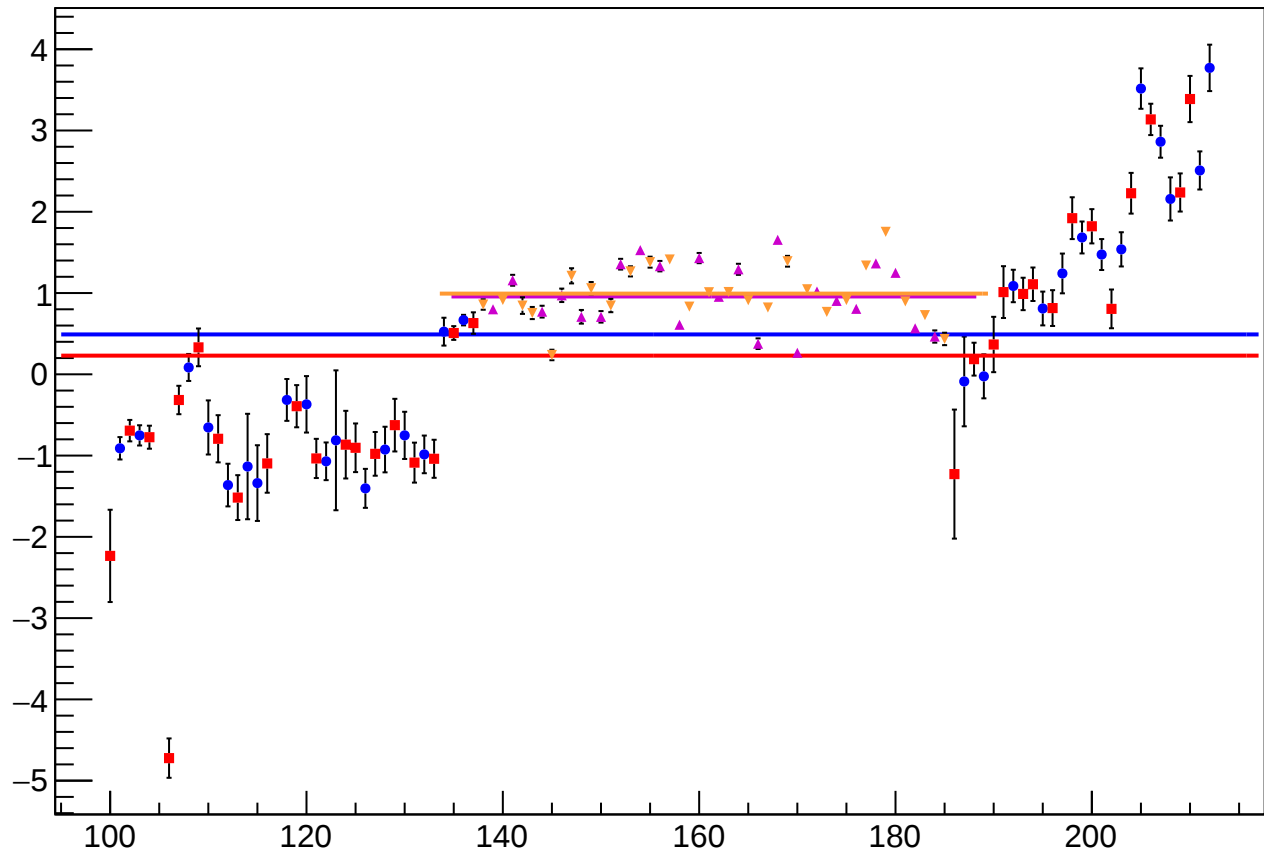
Right: -86.962 ± 0.534 $\chi^2/\text{NDF}: 8023.9/62$

In: -106.518 ± 0.262 $\chi^2/\text{NDF}: 6151.1/52$

Out: -106.774 ± 0.256 $\chi^2/\text{NDF}: 5741.8/57$

All: -106.649 ± 0.183 $\chi^2/\text{NDF}: 11893.4/110$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.491 $\pm$ 0.035 χ^2 /NDF: 1162.6/29

Left Out: 0.993 $\pm$ 0.012 χ^2 /NDF: 638.6/24

Right Out: 0.230 $\pm$ 0.036 χ^2 /NDF: 1414.8/32

Left In: 0.958 $\pm$ 0.013 χ^2 /NDF: 894.5/22

Left: 0.976 $\pm$ 0.009 χ^2 /NDF: 1537.0/47

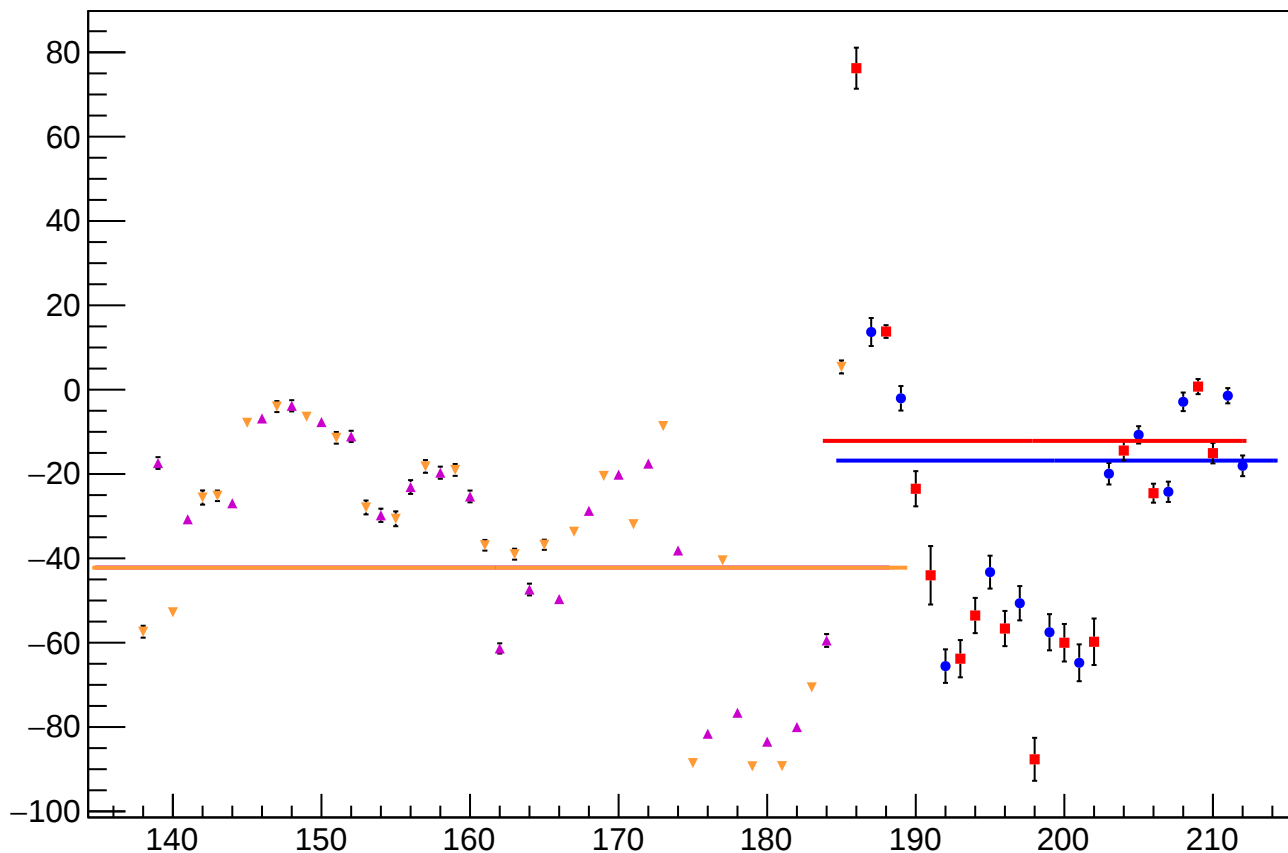
Right: 0.364 $\pm$ 0.025 χ^2 /NDF: 2604.0/62

In: 0.905 $\pm$ 0.012 χ^2 /NDF: 2212.4/52

Out: 0.913 $\pm$ 0.012 χ^2 /NDF: 2448.7/57

All: 0.909 $\pm$ 0.008 χ^2 /NDF: 4661.4/110

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



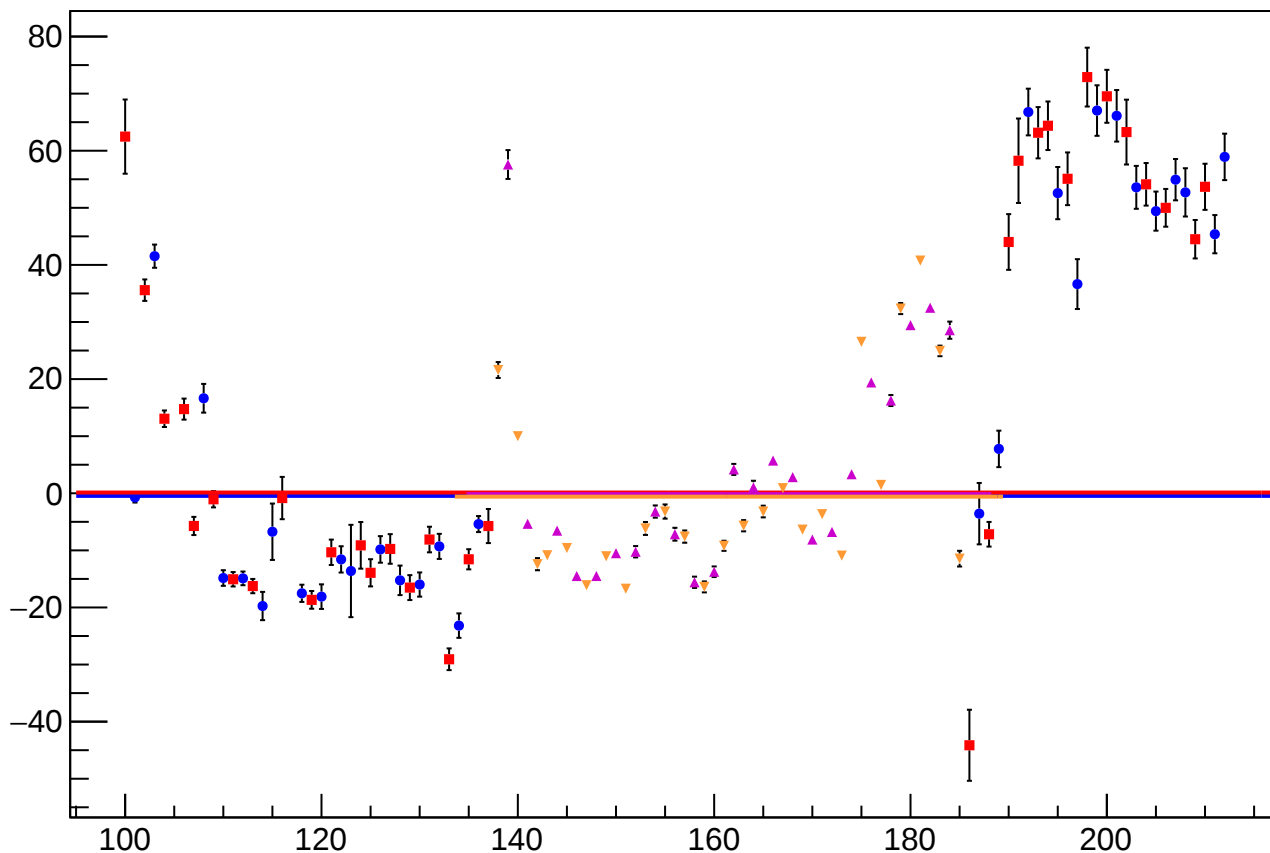
Right In: -16.820 $\pm$ 0.757 χ^2/NDF : 718.1/12
 Left Out: -42.213 $\pm$ 0.222 χ^2/NDF : 18309.1/24
 Right Out: -12.143 $\pm$ 0.765 χ^2/NDF : 1496.7/13
 Left In: -42.176 $\pm$ 0.227 χ^2/NDF : 14575.9/22

Left: -42.195 $\pm$ 0.159 χ^2/NDF : 32885.0/47
 Right: -14.508 $\pm$ 0.538 χ^2/NDF : 2233.6/26

In: -40.082 $\pm$ 0.217 χ^2/NDF : 16323.8/35
 Out: -39.878 $\pm$ 0.213 χ^2/NDF : 21229.9/38

All: -39.978 $\pm$ 0.152 χ^2/NDF : 37554.2/74

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.455 ± 0.401 χ^2/NDF : 3402.6/29

Left Out: -0.590 ± 0.174 χ^2/NDF : 8750.9/24

Right Out: 0.132 ± 0.398 χ^2/NDF : 3604.6/32

Left In: -0.142 ± 0.179 χ^2/NDF : 6862.5/22

Left: -0.372 ± 0.125 χ^2/NDF : 15616.6/47

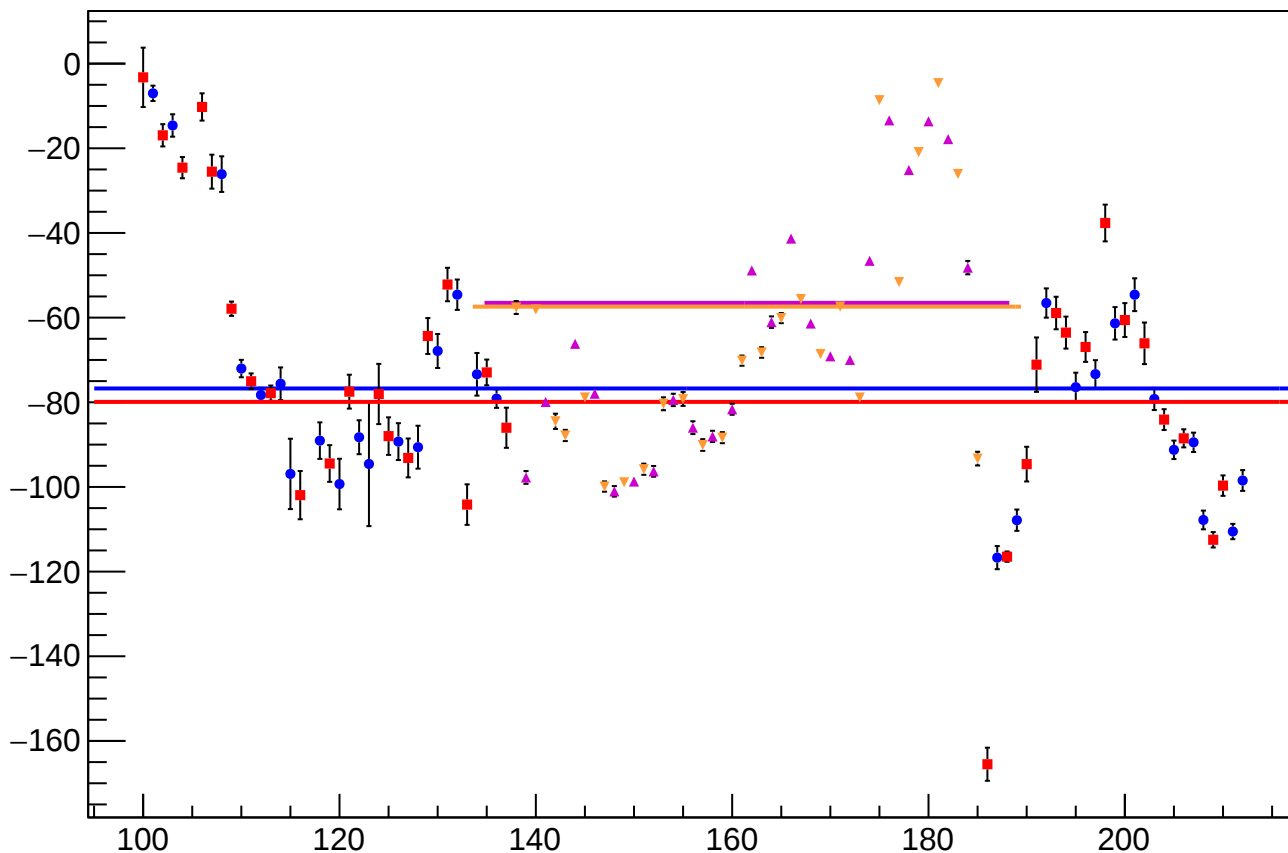
Right: -0.159 ± 0.283 χ^2/NDF : 7008.3/62

In: -0.194 ± 0.164 χ^2/NDF : 10265.6/52

Out: -0.474 ± 0.160 χ^2/NDF : 12358.3/57

All: -0.337 ± 0.114 χ^2/NDF : 22625.4/110

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -76.737 ± 0.520 $\chi^2/\text{NDF}: 3423.2/29$

Left Out: -57.413 ± 0.223 $\chi^2/\text{NDF}: 18604.1/24$

Right Out: -79.906 ± 0.496 $\chi^2/\text{NDF}: 4133.7/32$

Left In: -56.519 ± 0.227 $\chi^2/\text{NDF}: 16352.6/22$

Left: -56.974 ± 0.159 $\chi^2/\text{NDF}: 34964.5/47$

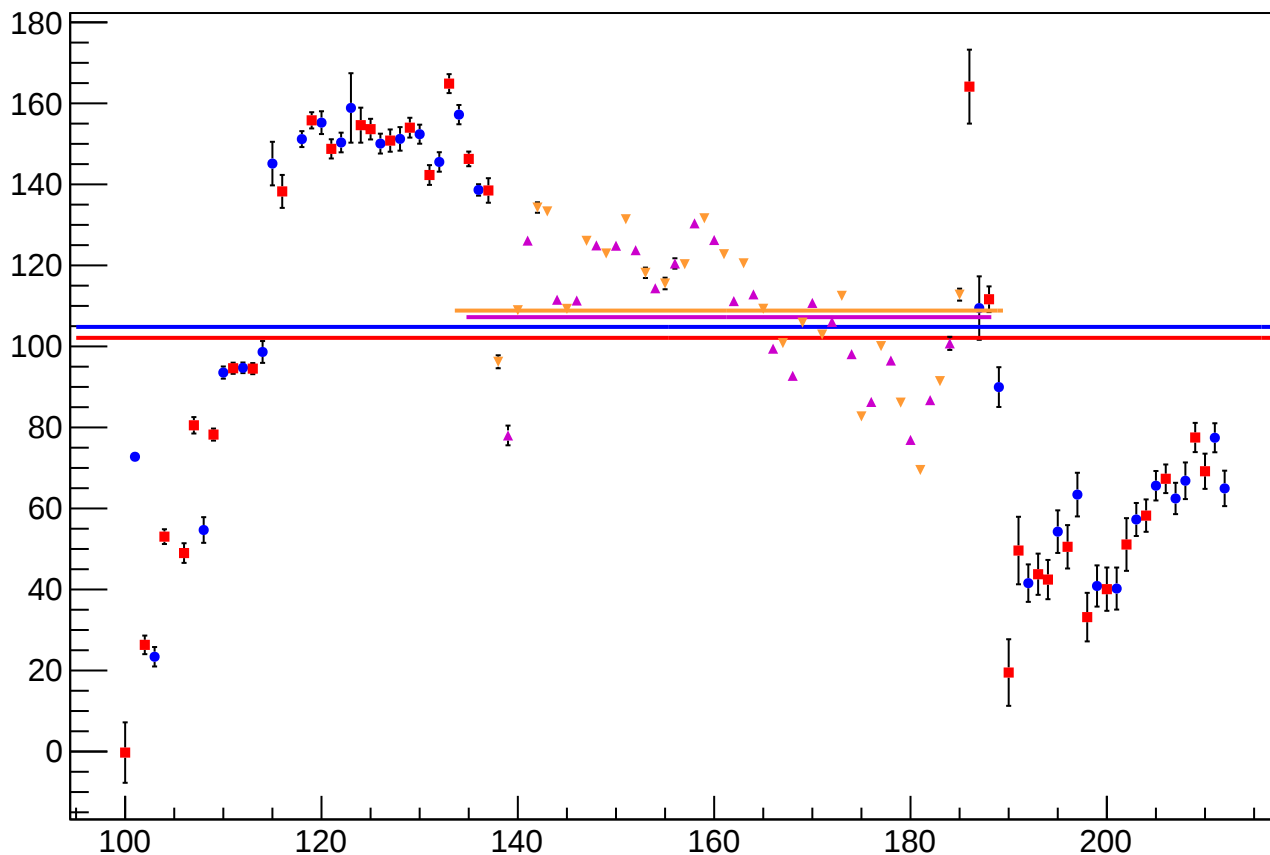
Right: -78.397 ± 0.359 $\chi^2/\text{NDF}: 7576.3/62$

In: -59.758 ± 0.208 $\chi^2/\text{NDF}: 21046.1/52$

Out: -61.204 ± 0.204 $\chi^2/\text{NDF}: 24449.2/57$

All: -60.497 ± 0.145 $\chi^2/\text{NDF}: 45520.0/110$

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 104.815 $\pm$ 0.456 χ^2 /NDF: 7275.2/29

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 102.114 $\pm$ 0.456 χ^2 /NDF: 8373.1/32

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

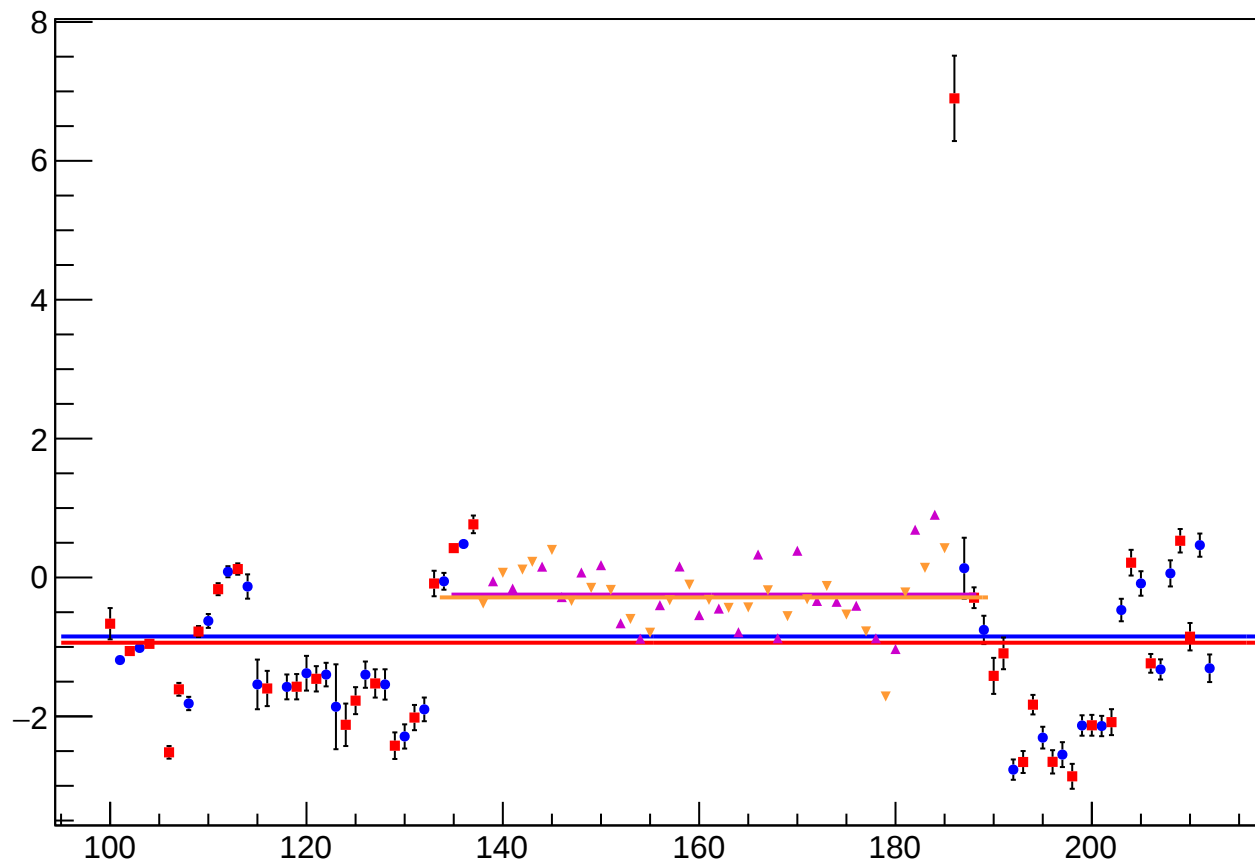
Right: 103.463 $\pm$ 0.323 χ^2 /NDF: 15665.8/62

In: 106.829 $\pm$ 0.185 χ^2 /NDF: 12863.7/52

Out: 107.784 $\pm$ 0.181 χ^2 /NDF: 15957.0/57

All: 107.317 $\pm$ 0.129 χ^2 /NDF: 28834.3/110

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.849 ± 0.023 χ^2/NDF : 1659.3/29

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.939 ± 0.022 χ^2/NDF : 2110.9/32

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

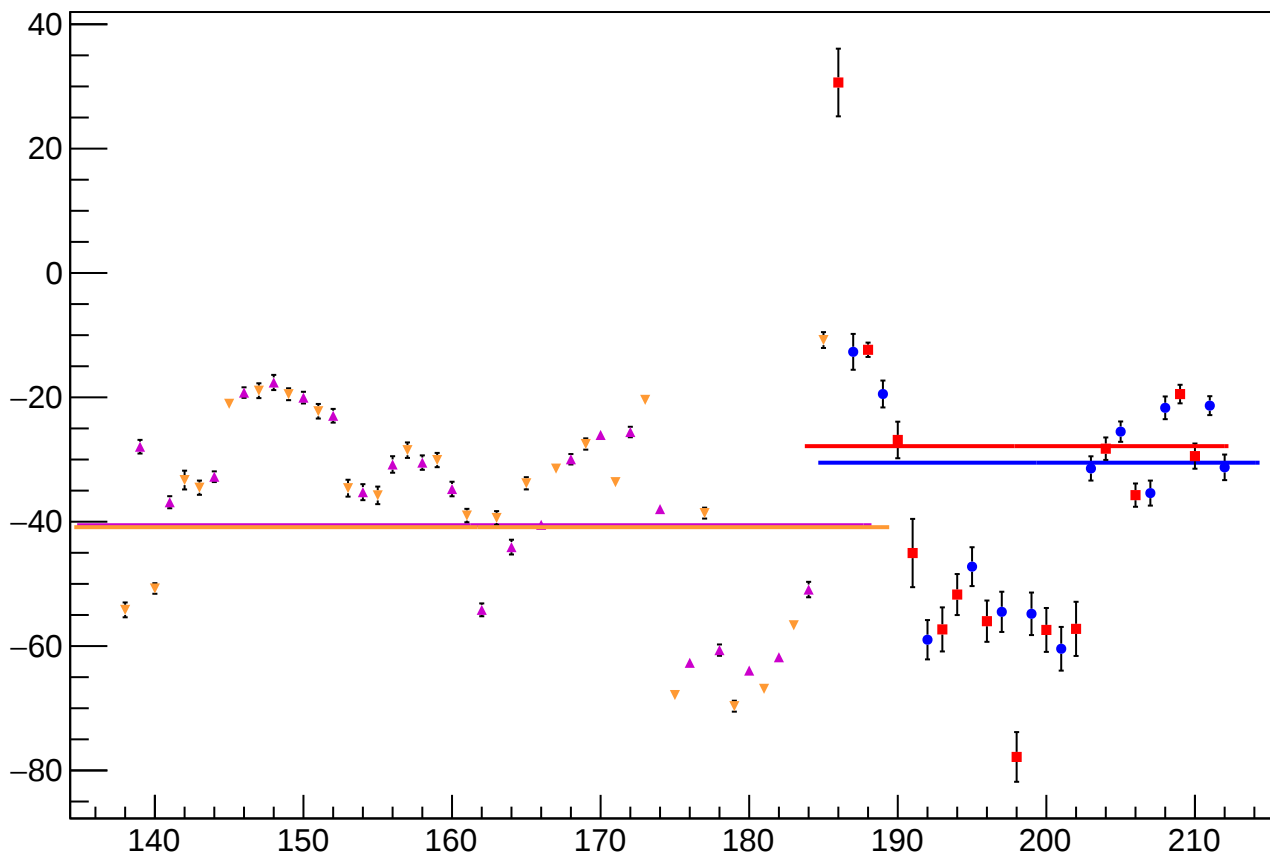
Right: -0.896 ± 0.016 χ^2/NDF : 3778.4/62

In: -0.333 ± 0.009 χ^2/NDF : 5057.6/52

Out: -0.385 ± 0.008 χ^2/NDF : 4937.8/57

All: -0.359 ± 0.006 χ^2/NDF : 10014.1/110

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.509 ± 0.614 $\chi^2/\text{NDF}: 427.4/12$

Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$

Right Out: -27.848 ± 0.611 $\chi^2/\text{NDF}: 820.6/13$

Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$

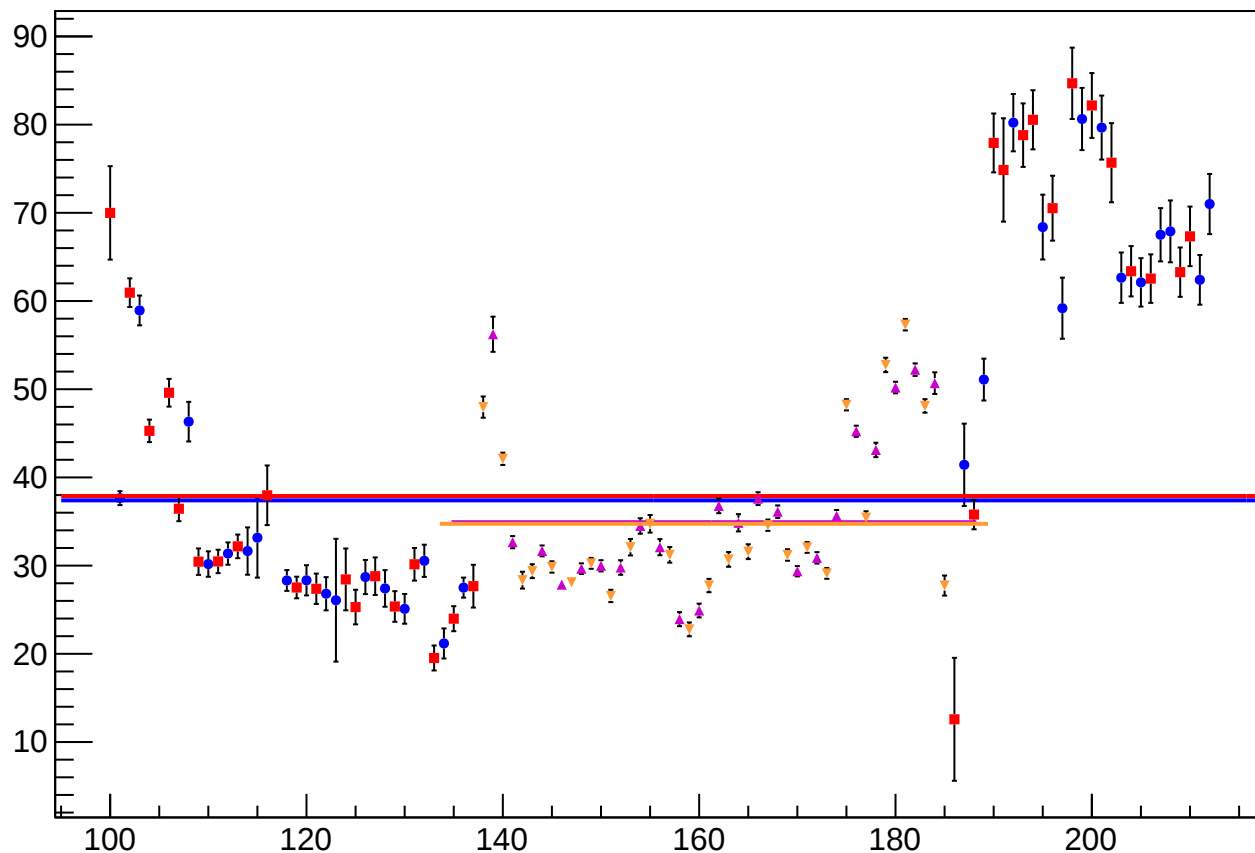
Right: -29.172 ± 0.433 $\chi^2/\text{NDF}: 1257.4/26$

In: -39.689 ± 0.181 $\chi^2/\text{NDF}: 7626.9/35$

Out: -39.775 ± 0.178 $\chi^2/\text{NDF}: 10359.5/38$

All: -39.733 ± 0.127 $\chi^2/\text{NDF}: 17986.5/74$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 37.398 $\pm$ 0.346 χ^2 /NDF: 1744.6/29

Left Out: 34.741 $\pm$ 0.147 χ^2 /NDF:3693.2/24

Right Out: 37.890 $\pm$ 0.346 χ^2 /NDF: 2165.7/32

Left In: 34.922 $\pm$ 0.152 χ^2 /NDF:2672.9/22

Left: 34.829 $\pm$ 0.106 χ^2 /NDF: 6366.8/47

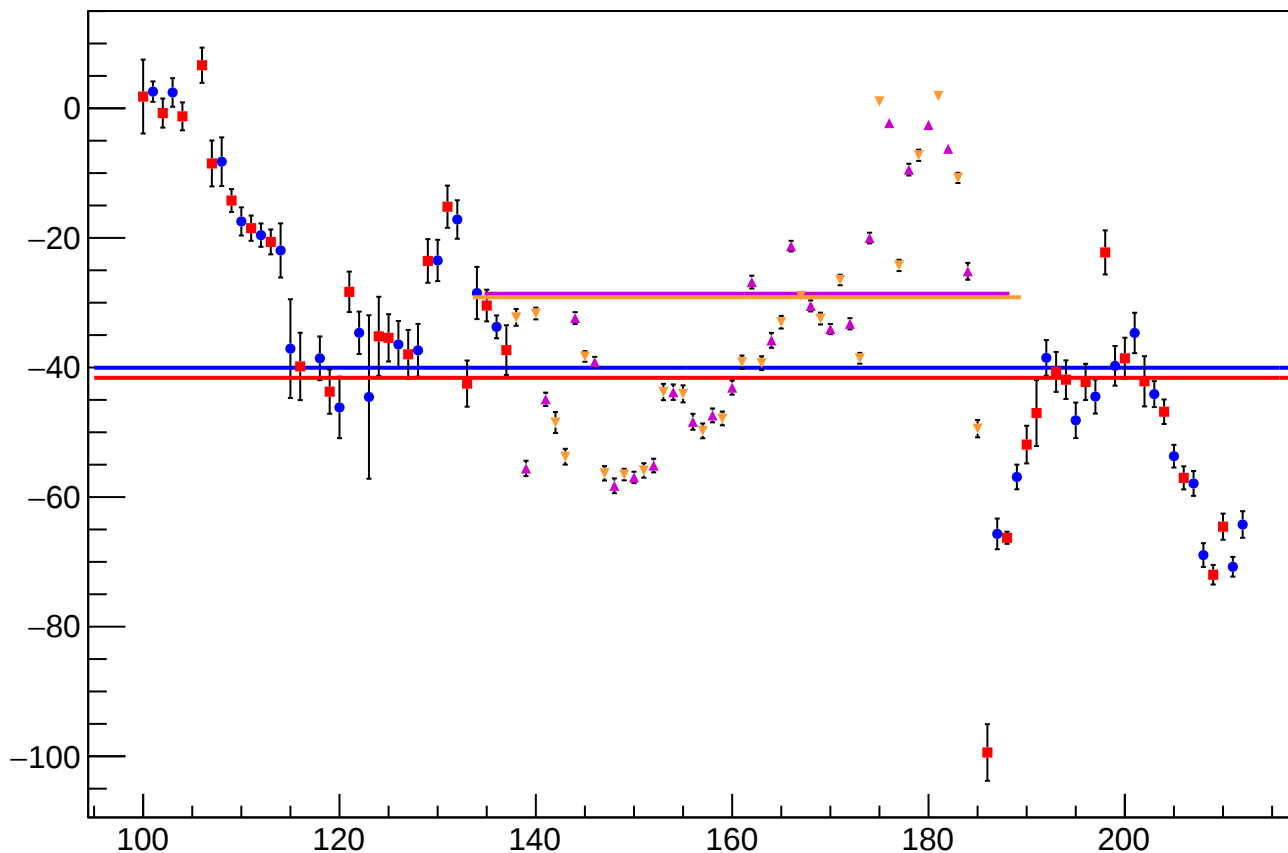
Right: 37.643 $\pm$ 0.245 χ^2 /NDF: 3911.4/62

In: 35.321 $\pm$ 0.139 χ^2 /NDF:4460.5/52

Out: 35.224 $\pm$ 0.136 χ^2 /NDF:5928.9/57

All: 35.272 $\pm$ 0.097 χ^2 /NDF: 10389.7/110

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -40.040 ± 0.442 $\chi^2/\text{NDF}: 2700.4/29$

Left Out: -29.163 ± 0.187 $\chi^2/\text{NDF}: 10126.0/24$

Right Out: -41.595 ± 0.421 $\chi^2/\text{NDF}: 3318.5/32$

Left In: -28.616 ± 0.190 $\chi^2/\text{NDF}: 9040.9/22$

Left: -28.894 ± 0.133 $\chi^2/\text{NDF}: 19171.1/47$

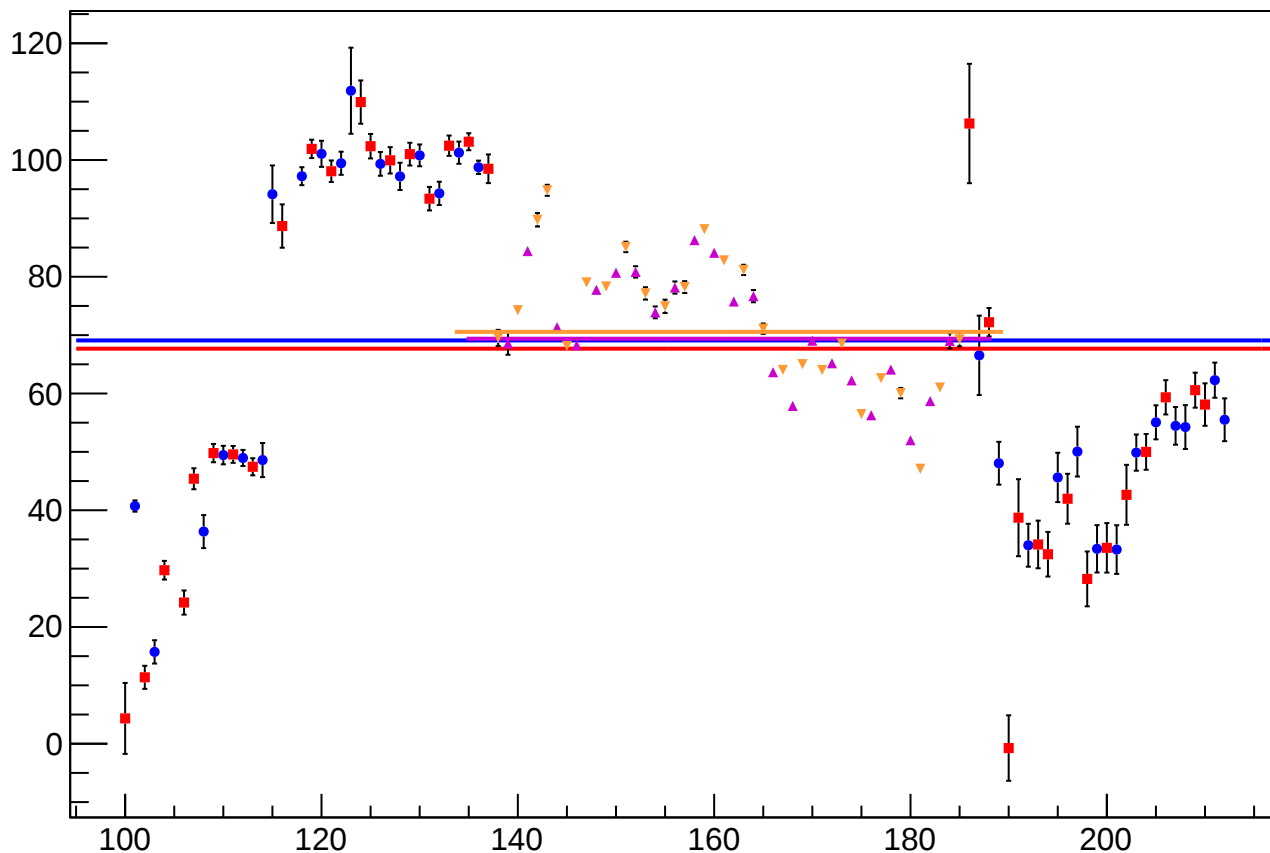
Right: -40.855 ± 0.305 $\chi^2/\text{NDF}: 6025.4/62$

In: -30.398 ± 0.174 $\chi^2/\text{NDF}: 12306.0/52$

Out: -31.211 ± 0.171 $\chi^2/\text{NDF}: 14172.5/57$

All: -30.813 ± 0.122 $\chi^2/\text{NDF}: 26489.6/110$

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 69.092 $\pm$ 0.395 χ^2 /NDF: 5179.1/29

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF:4589.1/24

Right Out: 67.678 $\pm$ 0.399 χ^2 /NDF: 6133.2/32

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

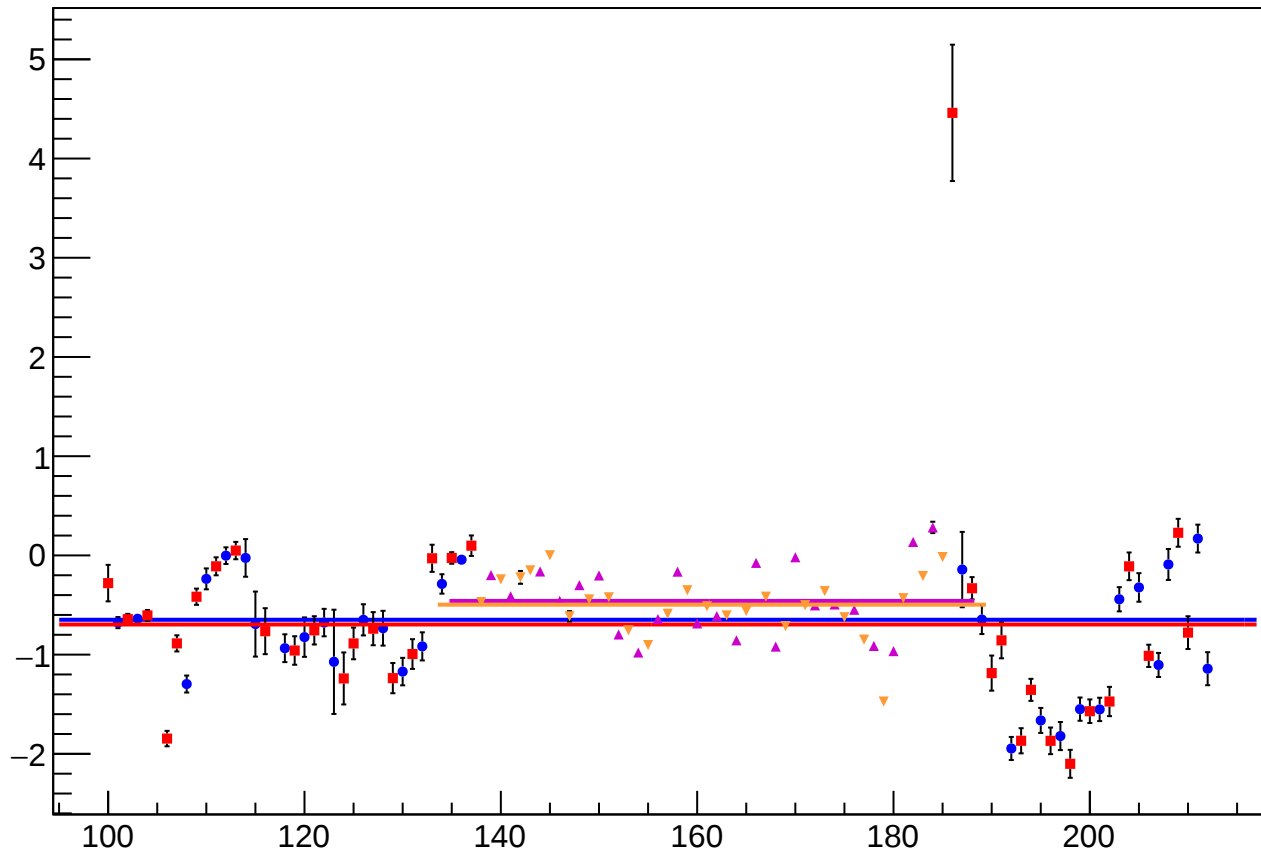
Right: 68.392 $\pm$ 0.281 χ^2 /NDF: 11318.7/62

In: 69.341 $\pm$ 0.156 χ^2 /NDF:8501.4/52

Out: 70.136 $\pm$ 0.153 χ^2 /NDF:10766.9/57

All: 69.746 $\pm$ 0.110 χ^2 /NDF: 19281.5/110

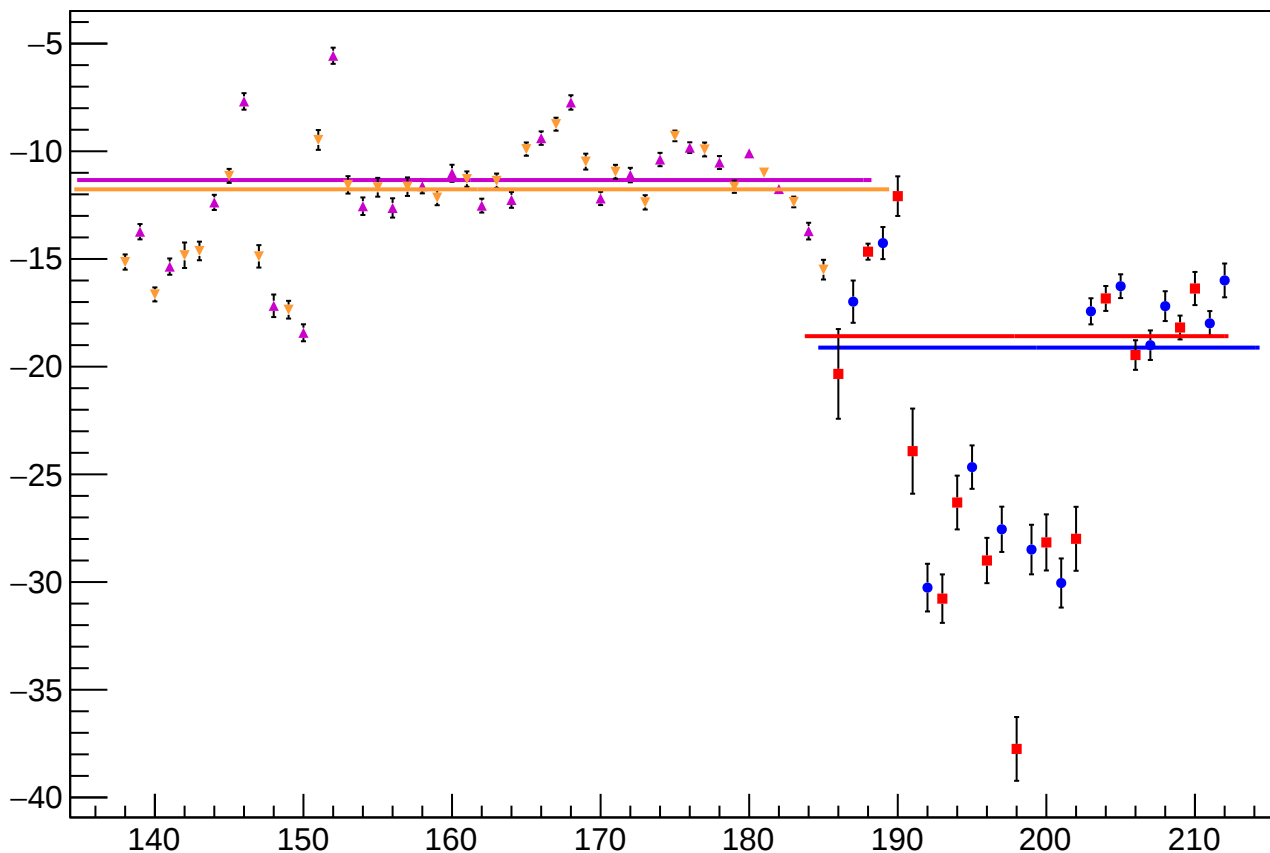
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.649 ± 0.019 χ^2/NDF : 802.4/29
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.696 ± 0.019 χ^2/NDF : 1121.9/32
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.673 ± 0.013 χ^2/NDF : 1927.5/62
 In: -0.485 ± 0.007 χ^2/NDF : 2844.5/52
 Out: -0.525 ± 0.007 χ^2/NDF : 2670.3/57
 All: -0.506 ± 0.005 χ^2/NDF : 5530.8/110

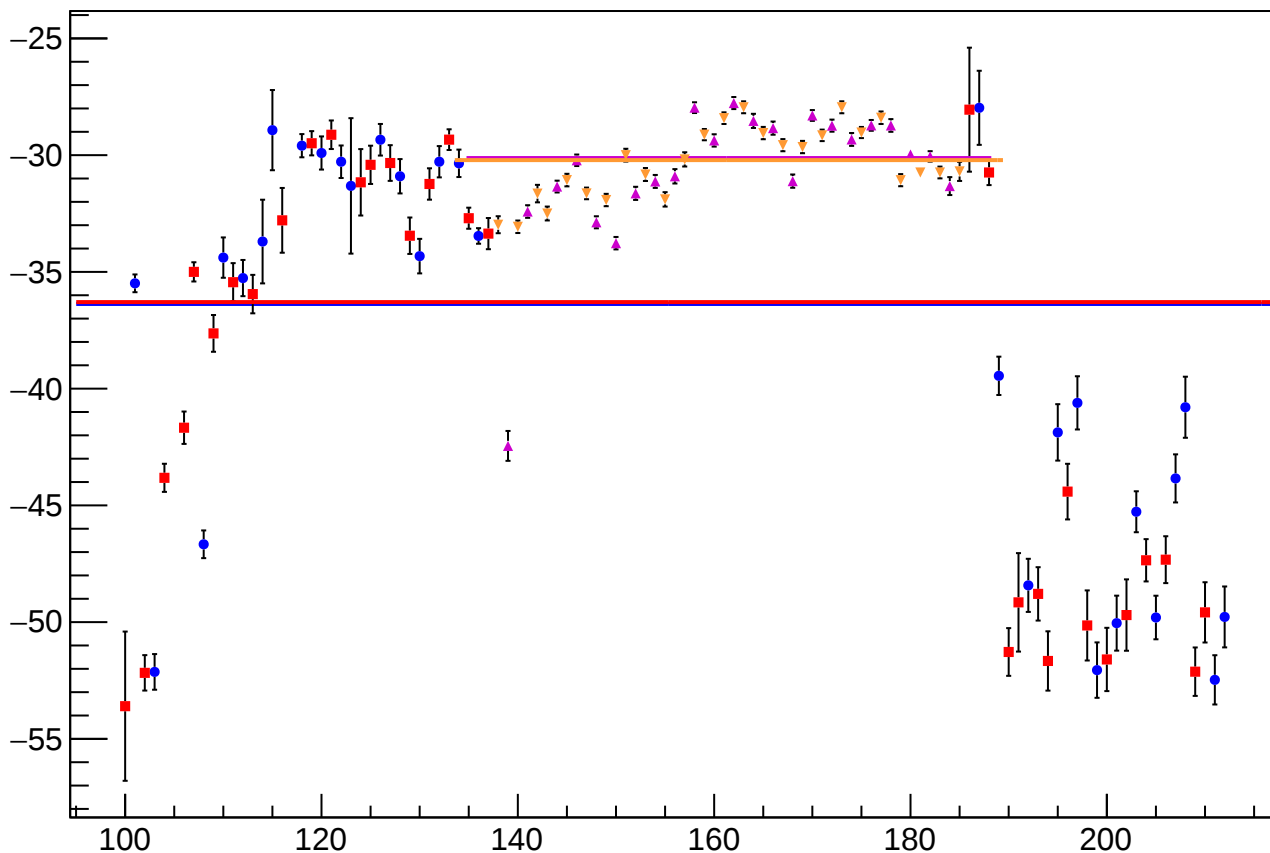
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.115 ± 0.213 $\chi^2/\text{NDF}: 463.3/12$
 Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$
 Right Out: -18.585 ± 0.210 $\chi^2/\text{NDF}: 703.9/13$
 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: -18.845 ± 0.149 $\chi^2/\text{NDF}: 1170.4/26$
 In: -12.055 ± 0.065 $\chi^2/\text{NDF}: 2940.4/35$
 Out: -12.394 ± 0.064 $\chi^2/\text{NDF}: 2686.3/38$
 All: -12.228 ± 0.045 $\chi^2/\text{NDF}: 5640.6/74$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -36.373 ± 0.136 $\chi^2/\text{NDF}: 2755.2/29$

Left Out: -30.212 ± 0.054 $\chi^2/\text{NDF}: 734.0/24$

Right Out: -36.293 ± 0.134 $\chi^2/\text{NDF}: 3116.0/32$

Left In: -30.124 ± 0.056 $\chi^2/\text{NDF}: 1226.2/22$

Left: -30.169 ± 0.039 $\chi^2/\text{NDF}: 1961.5/47$

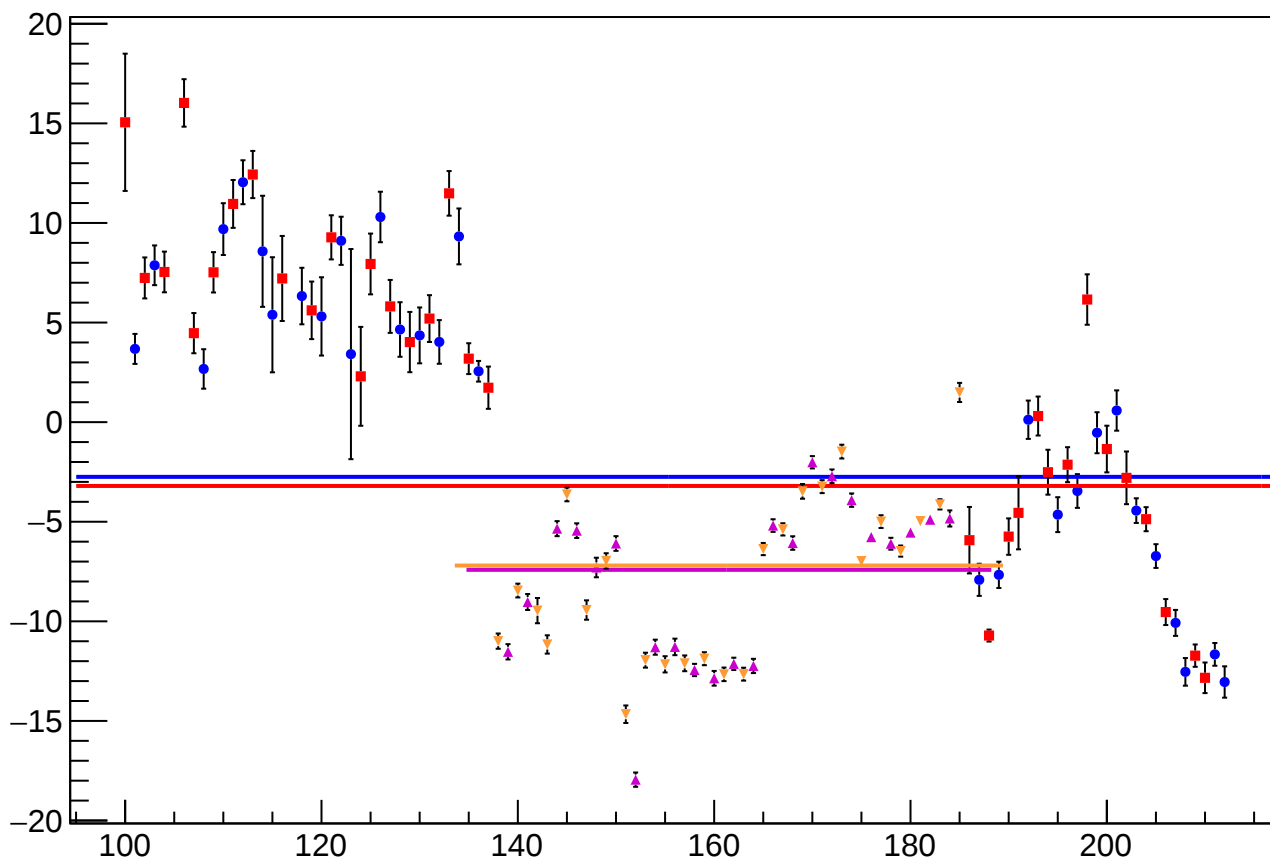
Right: -36.332 ± 0.095 $\chi^2/\text{NDF}: 5871.3/62$

In: -31.020 ± 0.051 $\chi^2/\text{NDF}: 5797.9/52$

Out: -31.060 ± 0.050 $\chi^2/\text{NDF}: 5627.3/57$

All: -31.040 ± 0.036 $\chi^2/\text{NDF}: 11425.5/110$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.747 ± 0.163 χ^2/NDF : 1963.9/29

Left Out: -7.199 ± 0.067 χ^2/NDF : 3037.3/24

Right Out: -3.203 ± 0.156 χ^2/NDF : 2811.5/32

Left In: -7.415 ± 0.068 χ^2/NDF : 3123.3/22

Left: -7.305 ± 0.048 χ^2/NDF : 6165.7/47

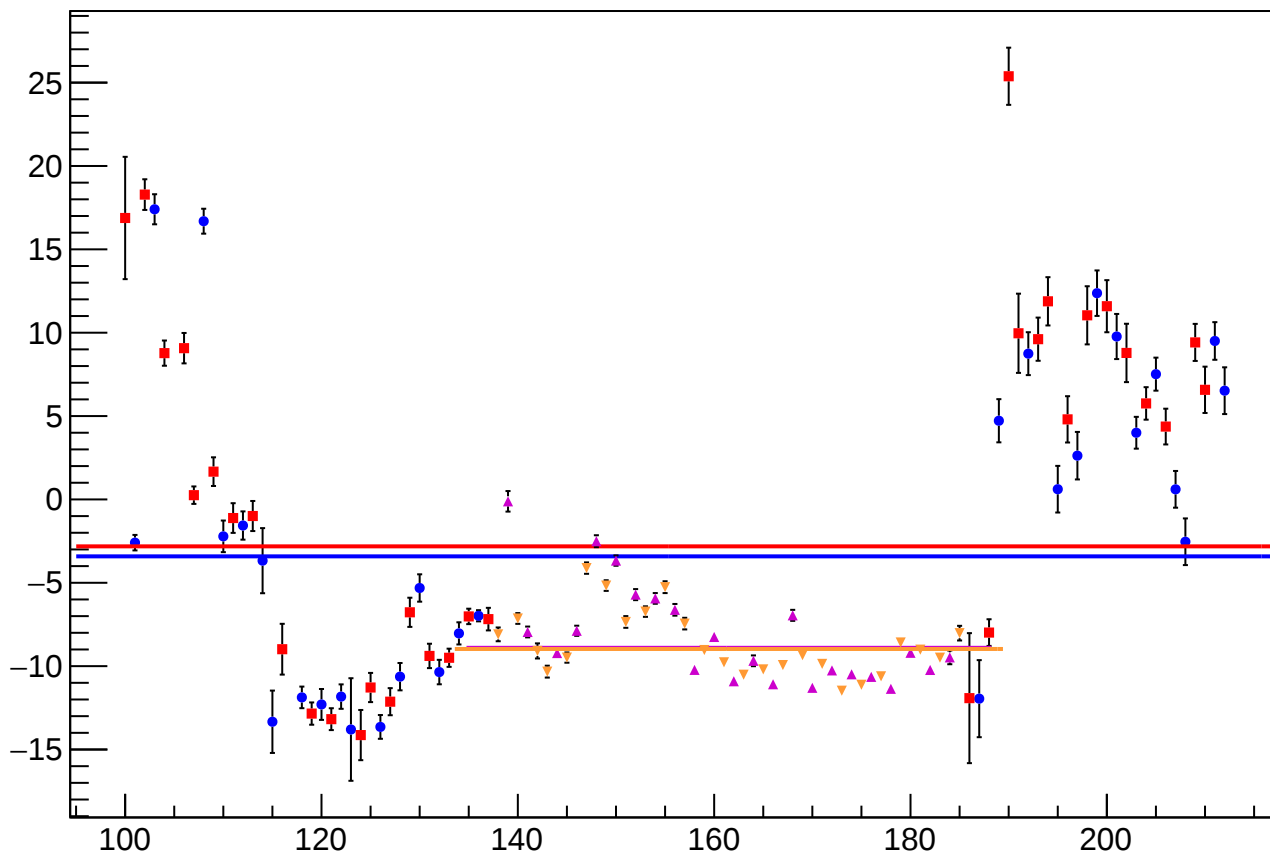
Right: -2.985 ± 0.113 χ^2/NDF : 4779.6/62

In: -6.724 ± 0.063 χ^2/NDF : 5787.7/52

Out: -6.577 ± 0.061 χ^2/NDF : 6404.5/57

All: -6.649 ± 0.044 χ^2/NDF : 12195.0/110

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.415 ± 0.154 χ^2/NDF : 3013.3/29

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -2.815 ± 0.155 χ^2/NDF : 3230.5/32

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

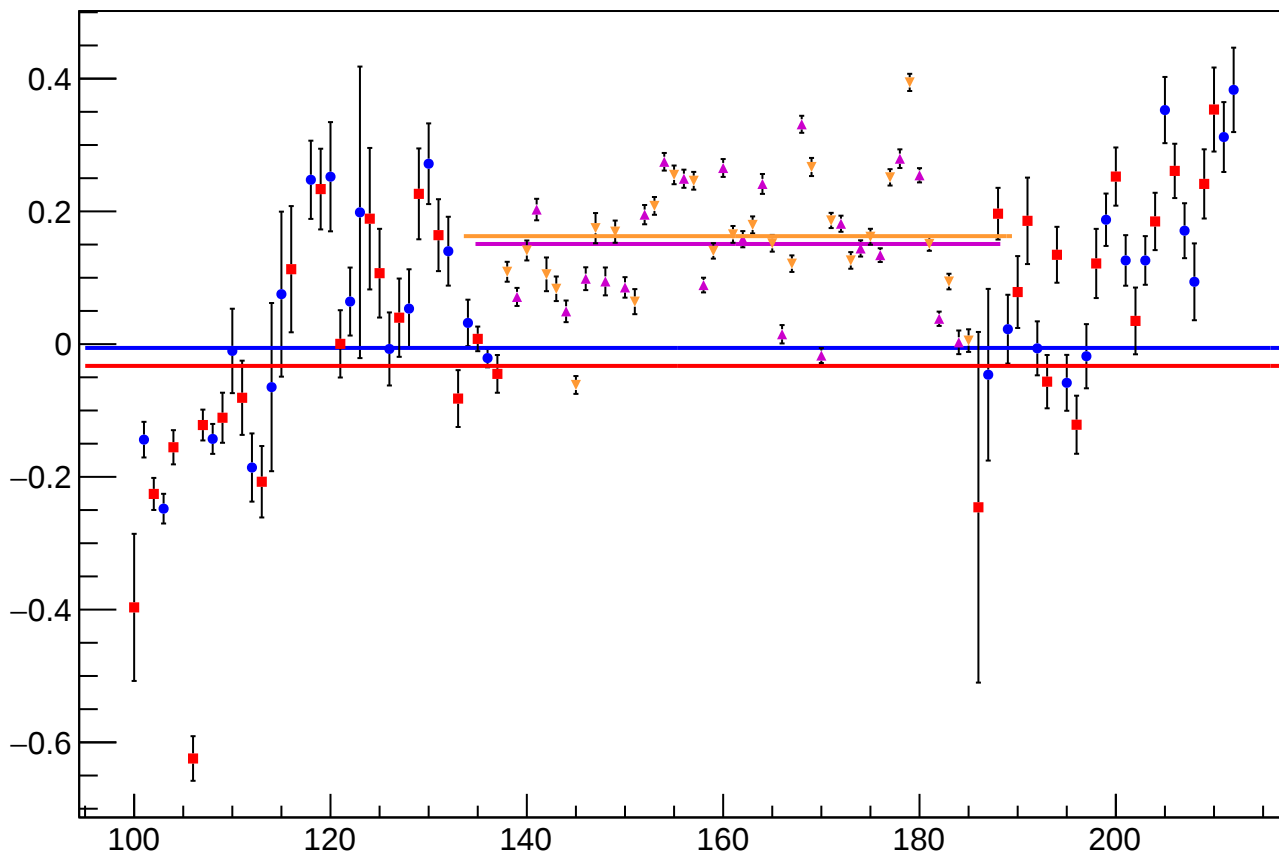
Right: -3.118 ± 0.109 χ^2/NDF : 6251.4/62

In: -8.139 ± 0.057 χ^2/NDF : 5645.9/52

Out: -8.168 ± 0.056 χ^2/NDF : 5473.4/57

All: -8.154 ± 0.040 χ^2/NDF : 11119.5/110

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.007 χ^2/NDF : 454.3/29

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.033 ± 0.007 χ^2/NDF : 769.1/32

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

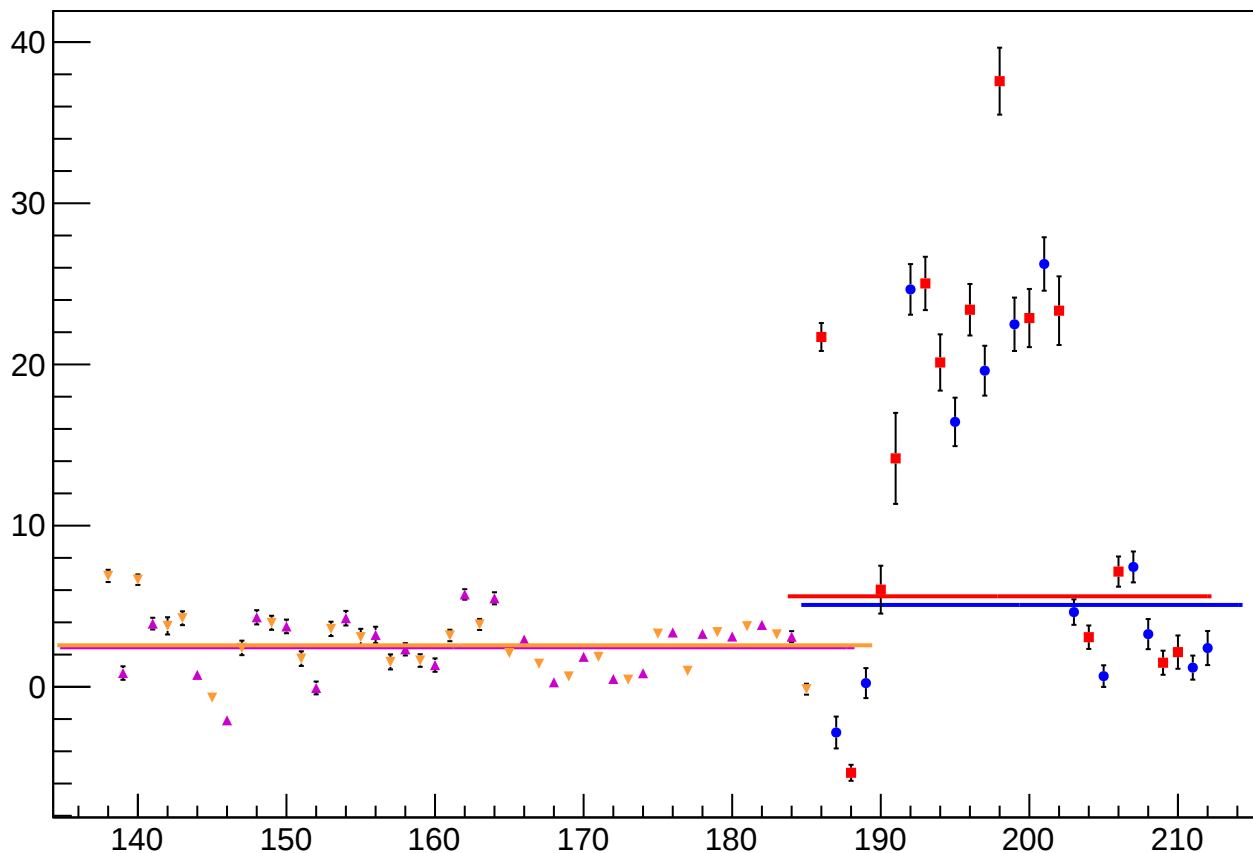
Right: -0.019 ± 0.005 χ^2/NDF : 1230.8/62

In: 0.130 ± 0.003 χ^2/NDF : 2169.0/52

Out: 0.137 ± 0.003 χ^2/NDF : 2453.2/57

All: 0.134 ± 0.002 χ^2/NDF : 4626.3/110

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.080 ± 0.278 $\chi^2/\text{NDF}: 752.1/12$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 5.616 ± 0.272 $\chi^2/\text{NDF}: 1624.8/13$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

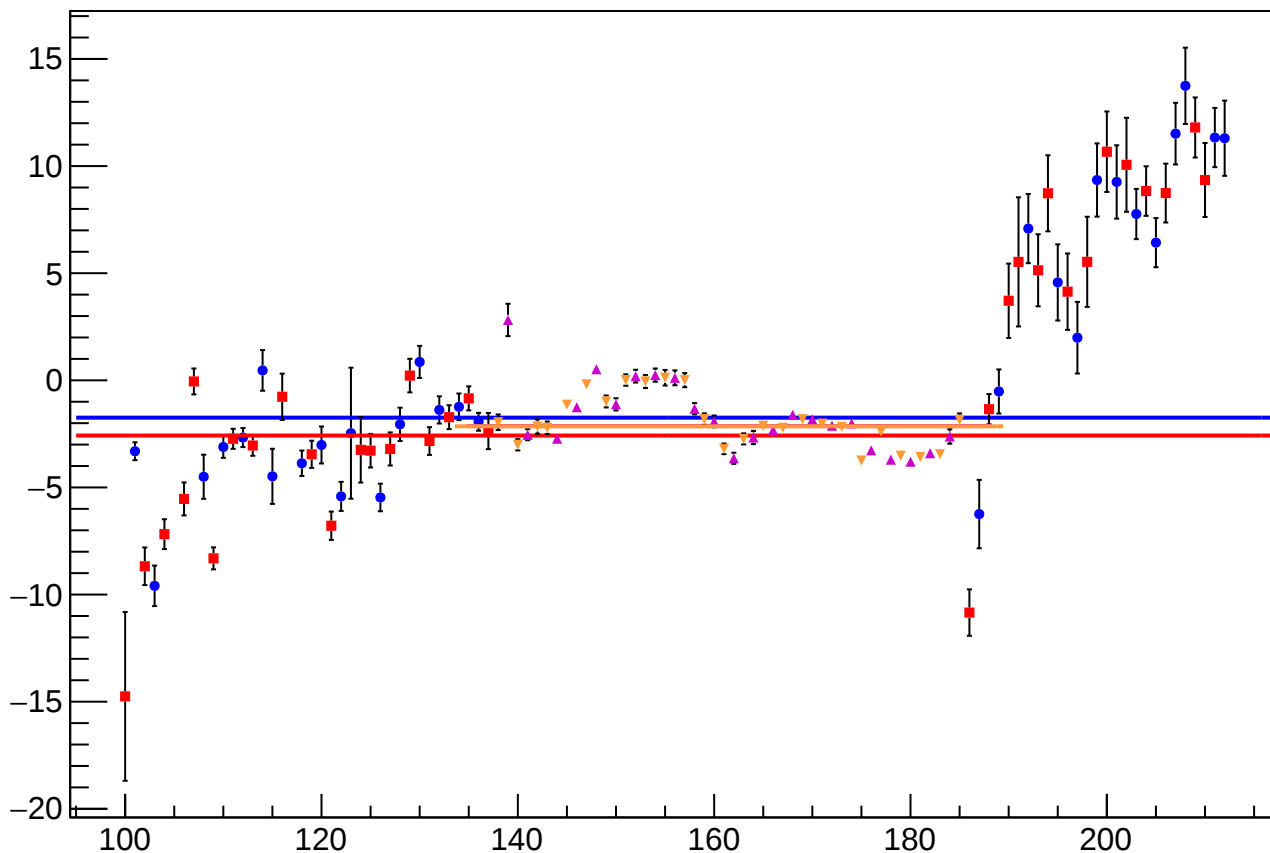
Right: 5.354 ± 0.194 $\chi^2/\text{NDF}: 2378.9/26$

In: 2.567 ± 0.058 $\chi^2/\text{NDF}: 1708.7/35$

Out: 2.710 ± 0.057 $\chi^2/\text{NDF}: 2612.1/38$

All: 2.640 ± 0.041 $\chi^2/\text{NDF}: 4323.9/74$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.742 ± 0.145 $\chi^2/\text{NDF}: 764.9/29$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -2.577 ± 0.143 $\chi^2/\text{NDF}: 904.1/32$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

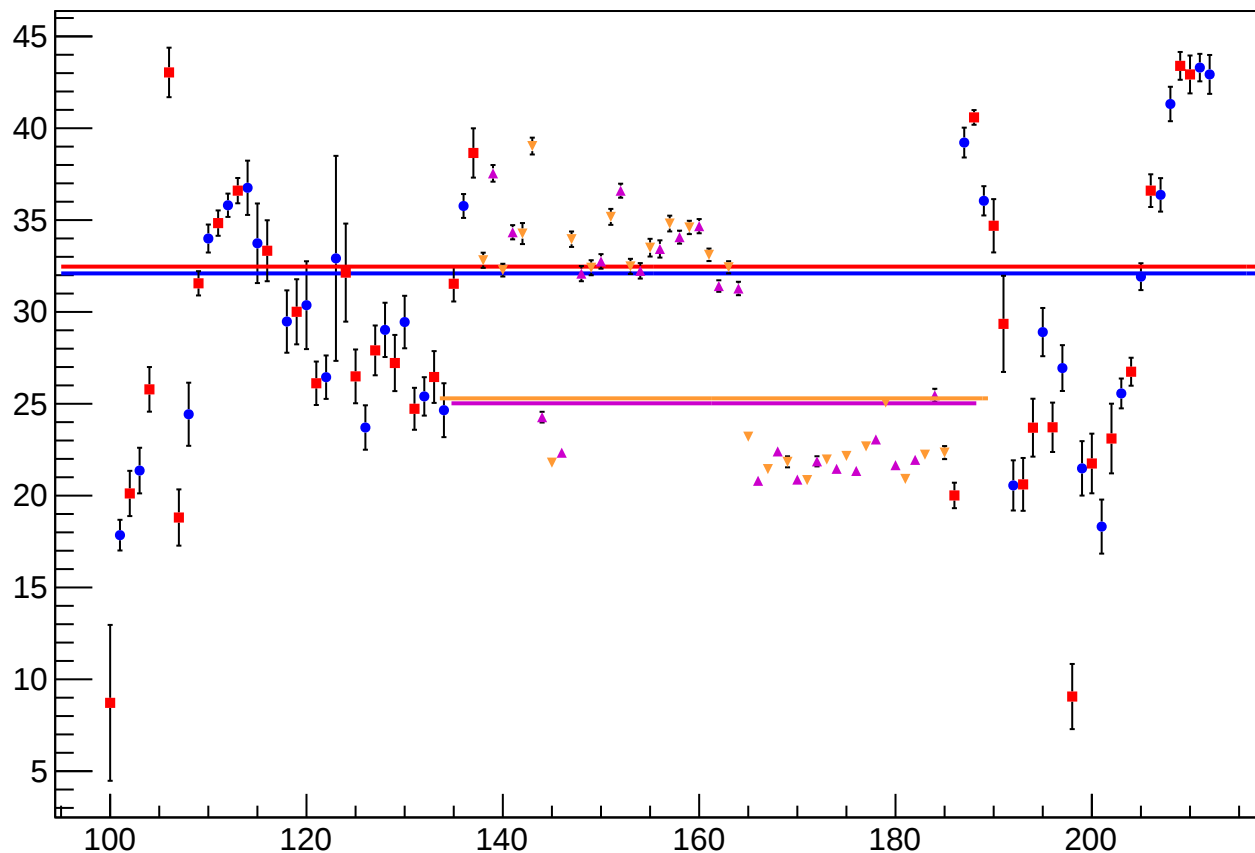
Right: -2.165 ± 0.102 $\chi^2/\text{NDF}: 1685.8/62$

In: -2.097 ± 0.046 $\chi^2/\text{NDF}: 1462.8/52$

Out: -2.189 ± 0.045 $\chi^2/\text{NDF}: 1485.7/57$

All: -2.143 ± 0.032 $\chi^2/\text{NDF}: 2950.5/110$

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.097 $\pm$ 0.189 χ^2 /NDF: 1464.6/29

Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF:8272.3/24

Right Out: 32.467 $\pm$ 0.177 χ^2 /NDF: 2020.9/32

Left In: 25.025 $\pm$ 0.060 χ^2 /NDF:7610.5/22

Left: 25.162 $\pm$ 0.042 χ^2 /NDF: 15893.3/47

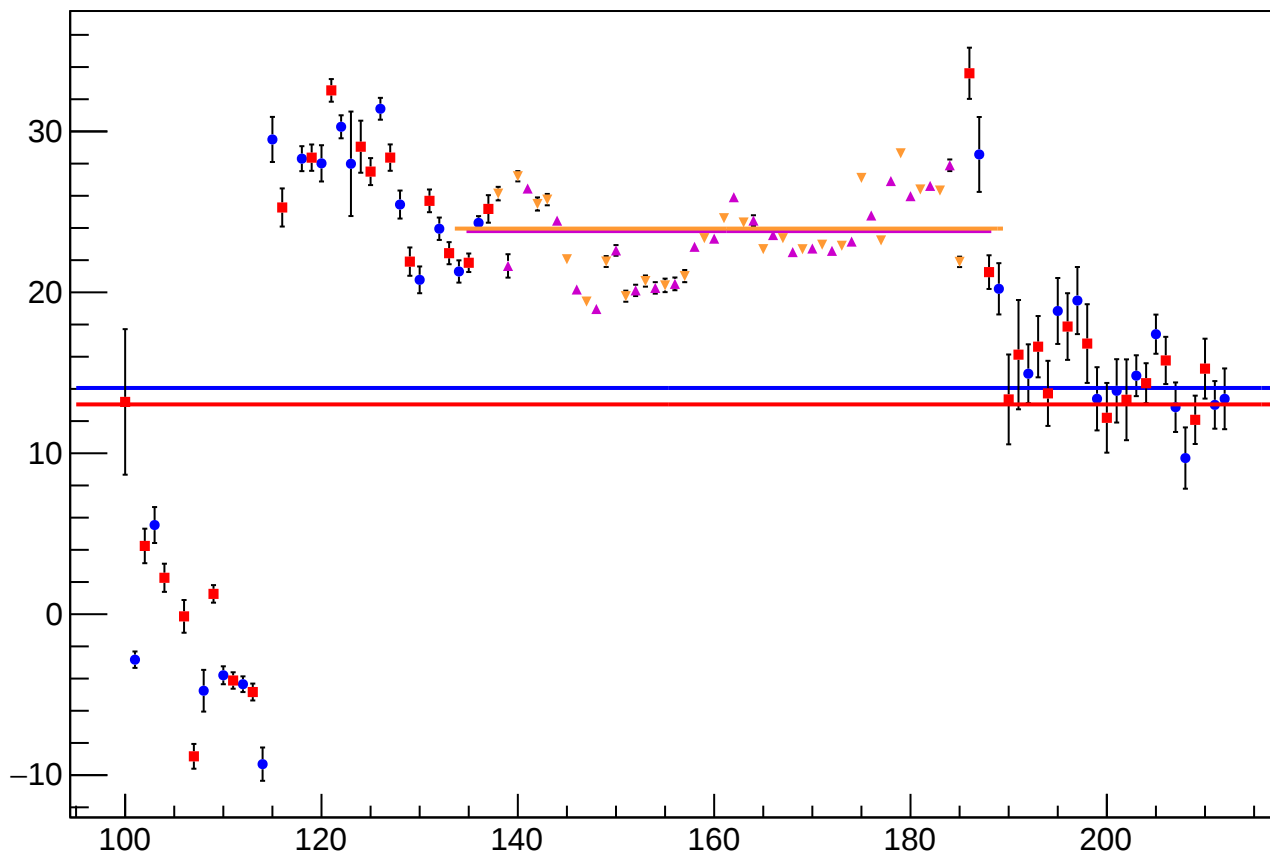
Right: 32.293 $\pm$ 0.129 χ^2 /NDF: 3487.5/62

In: 25.668 $\pm$ 0.057 χ^2 /NDF:10353.8/52

Out: 26.007 $\pm$ 0.056 χ^2 /NDF:11765.3/57

All: 25.840 $\pm$ 0.040 χ^2 /NDF: 22137.2/110

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.058 $\pm$ 0.162 χ^2 /NDF: 7357.4/29

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.037 $\pm$ 0.163 χ^2 /NDF: 7214.1/32

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

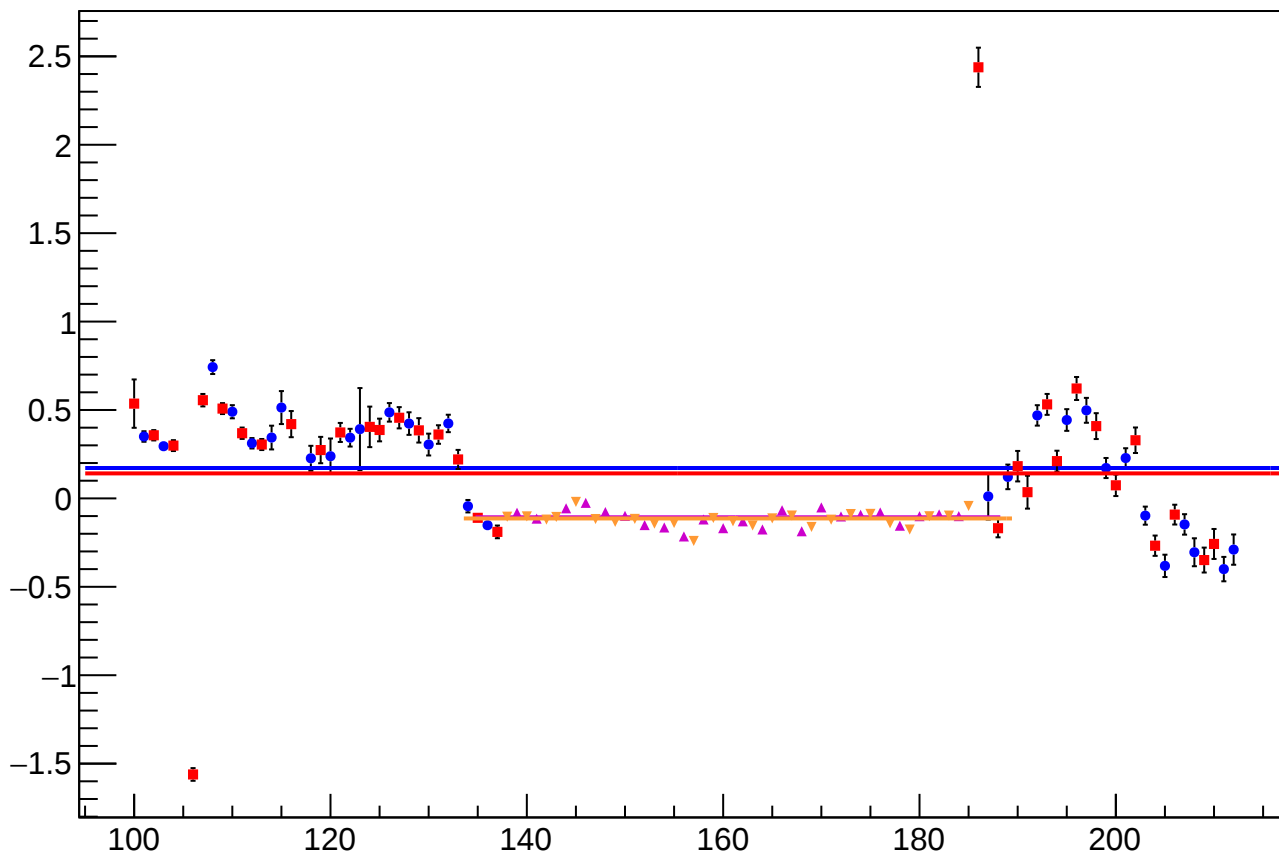
Right: 13.550 $\pm$ 0.115 χ^2 /NDF: 14591.2/62

In: 22.831 $\pm$ 0.051 χ^2 /NDF:12368.3/52

Out: 22.910 $\pm$ 0.051 χ^2 /NDF:13202.3/57

All: 22.872 $\pm$ 0.036 χ^2 /NDF: 25571.8/110

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.008 χ^2 /NDF: 1198.3/29

Left Out: -0.113 $\pm$ 0.002 χ^2 /NDF: 291.0/24

Right Out: 0.141 $\pm$ 0.008 χ^2 /NDF: 3739.3/32

Left In: -0.107 $\pm$ 0.002 χ^2 /NDF: 321.8/22

Left: -0.110 $\pm$ 0.002 χ^2 /NDF: 616.6/47

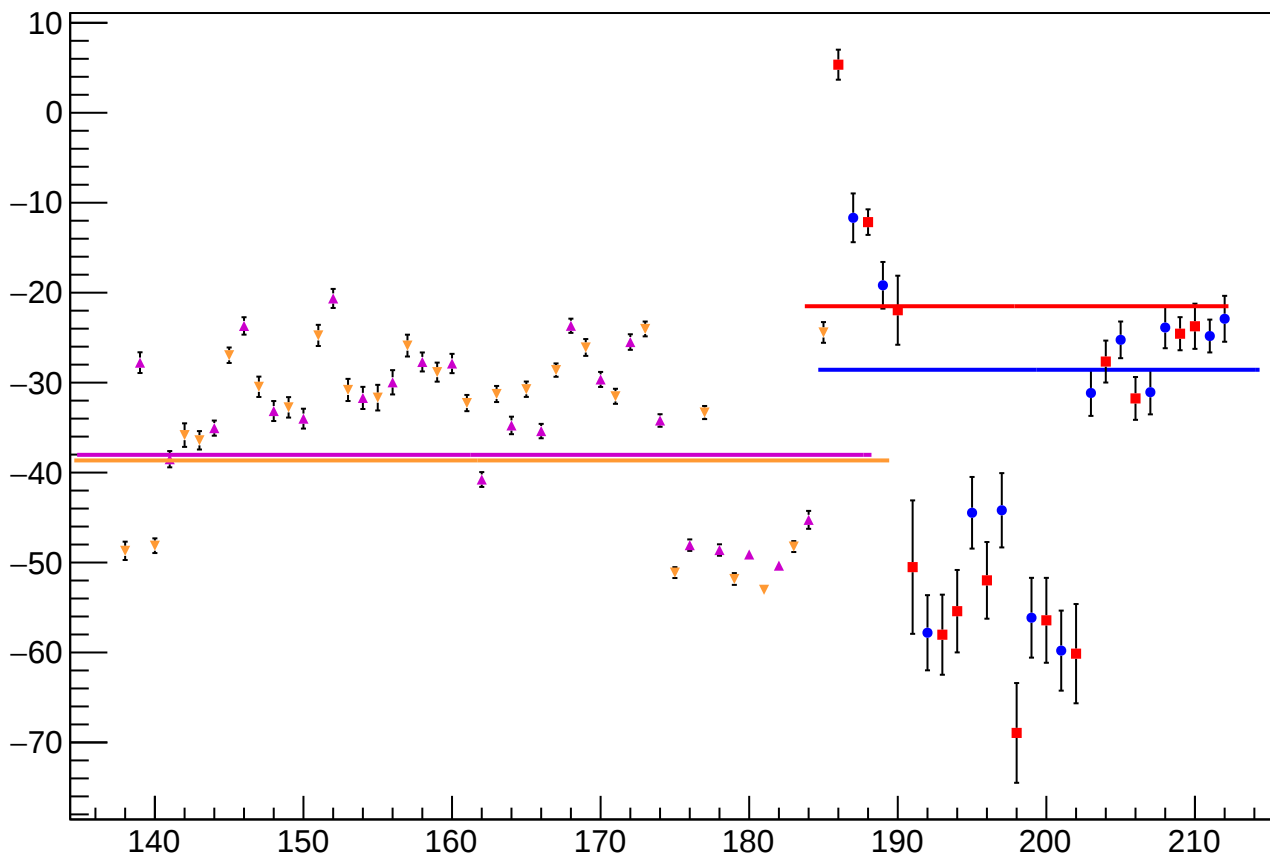
Right: 0.156 $\pm$ 0.006 χ^2 /NDF: 4944.5/62

In: -0.084 $\pm$ 0.002 χ^2 /NDF: 2552.2/52

Out: -0.093 $\pm$ 0.002 χ^2 /NDF: 4920.3/57

All: -0.089 $\pm$ 0.002 χ^2 /NDF: 7479.5/110

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected

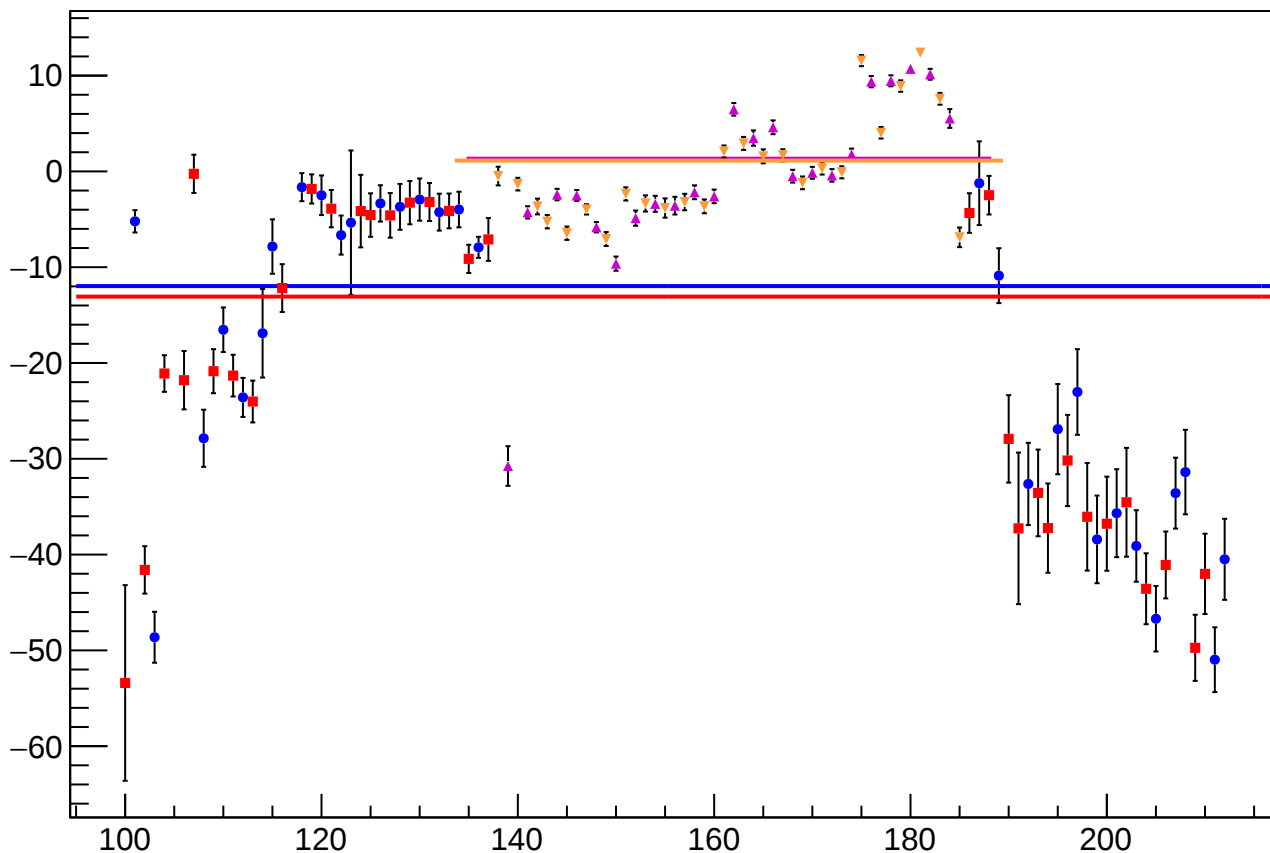


Right In: -28.571 ± 0.752 χ^2/NDF : 237.0/12
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -21.507 ± 0.704 χ^2/NDF : 696.5/13
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -24.804 ± 0.514 χ^2/NDF : 980.6/26
 In: -37.551 ± 0.169 χ^2/NDF : 3479.0/35
 Out: -37.715 ± 0.164 χ^2/NDF : 5334.5/38

All: -37.635 ± 0.118 χ^2/NDF : 8814.0/74

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.973 ± 0.429 χ^2/NDF : 961.4/29

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -13.070 ± 0.438 χ^2/NDF : 931.7/32

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

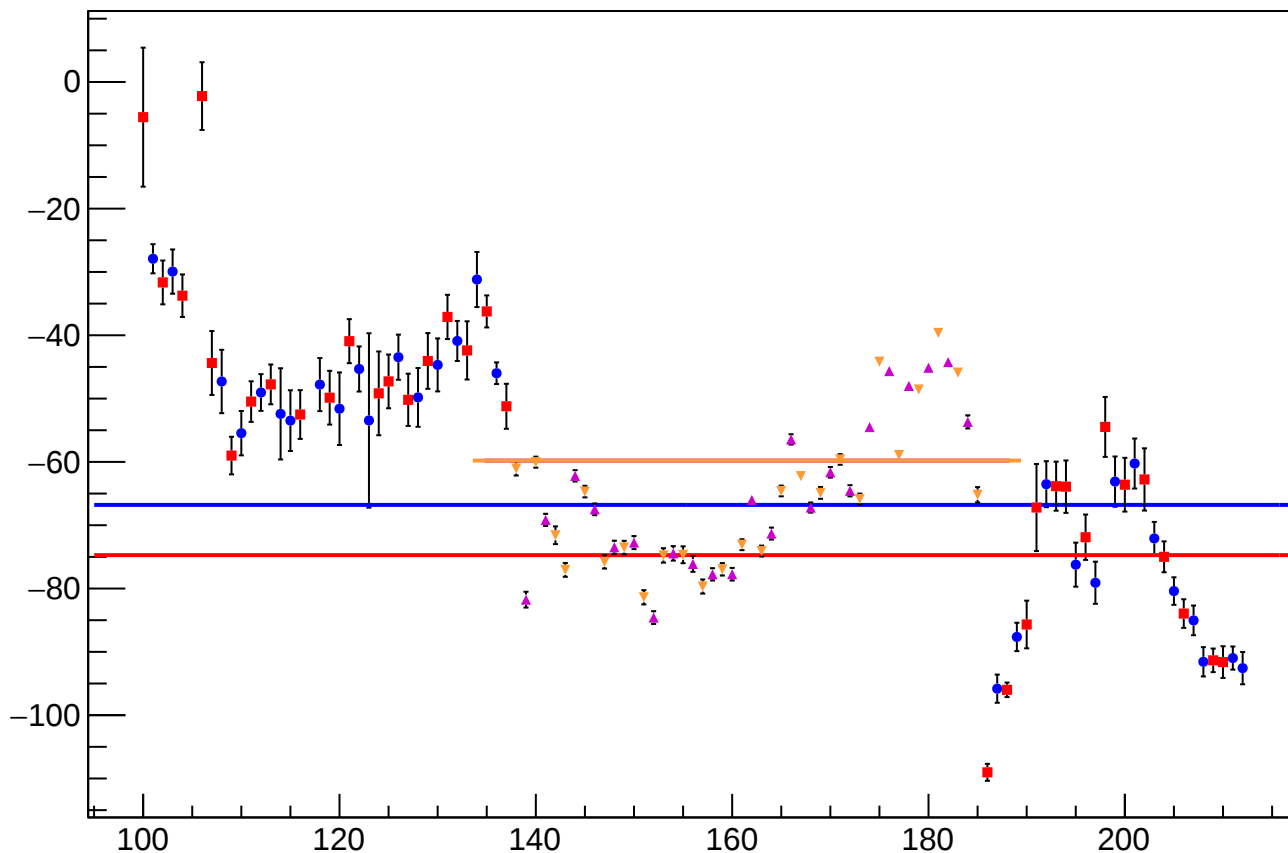
Right: -12.510 ± 0.306 χ^2/NDF : 1896.3/62

In: 0.051 ± 0.133 χ^2/NDF : 3879.1/52

Out: -0.120 ± 0.130 χ^2/NDF : 3690.9/57

All: -0.037 ± 0.093 χ^2/NDF : 7570.8/110

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.789 ± 0.544 $\chi^2/\text{NDF}: 1679.9/29$

Left Out: -59.789 ± 0.170 $\chi^2/\text{NDF}: 5837.7/24$

Right Out: -74.725 ± 0.507 $\chi^2/\text{NDF}: 2665.5/32$

Left In: -59.802 ± 0.173 $\chi^2/\text{NDF}: 5217.5/22$

Left: -59.795 ± 0.121 $\chi^2/\text{NDF}: 11055.3/47$

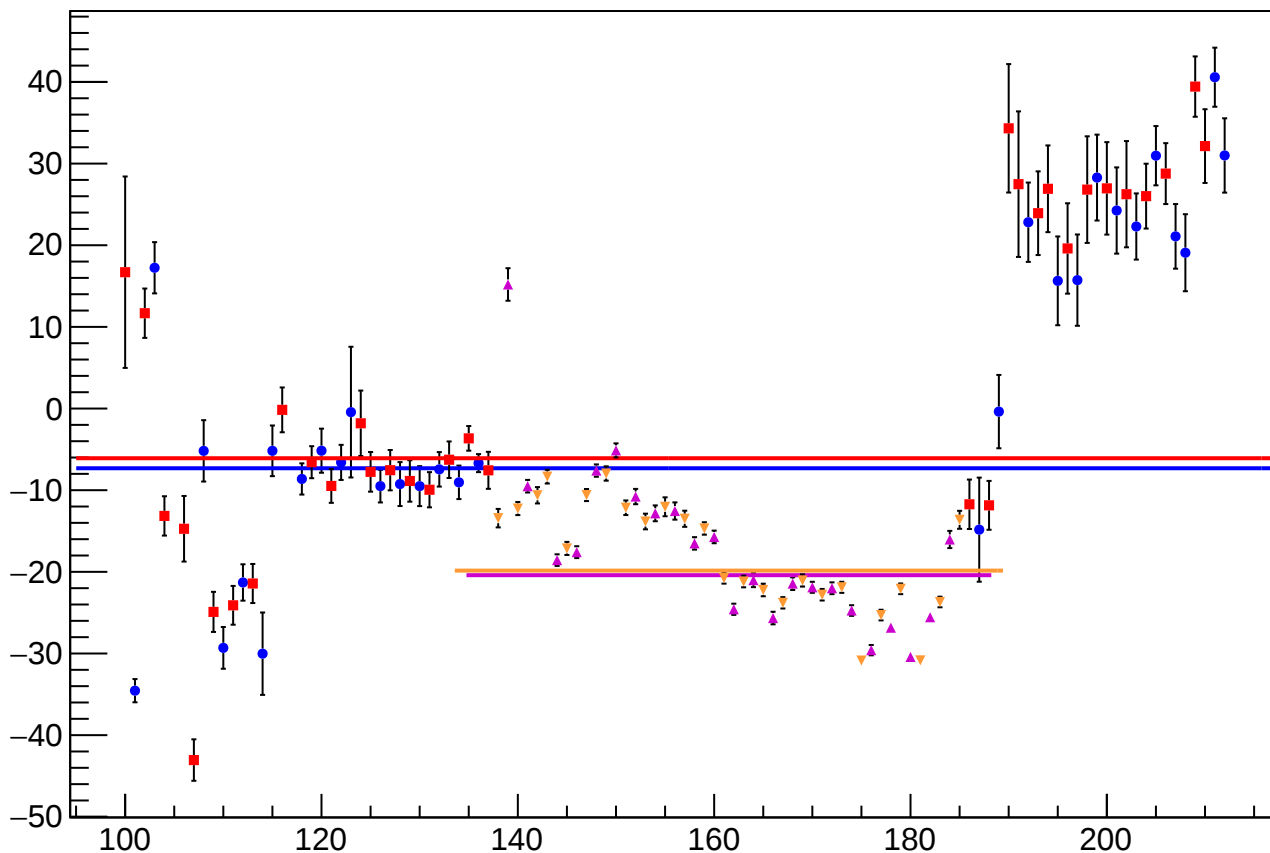
Right: -71.037 ± 0.371 $\chi^2/\text{NDF}: 4459.3/62$

In: -60.446 ± 0.165 $\chi^2/\text{NDF}: 7047.2/52$

Out: -61.301 ± 0.161 $\chi^2/\text{NDF}: 9283.9/57$

All: -60.884 ± 0.115 $\chi^2/\text{NDF}: 16344.8/110$

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected

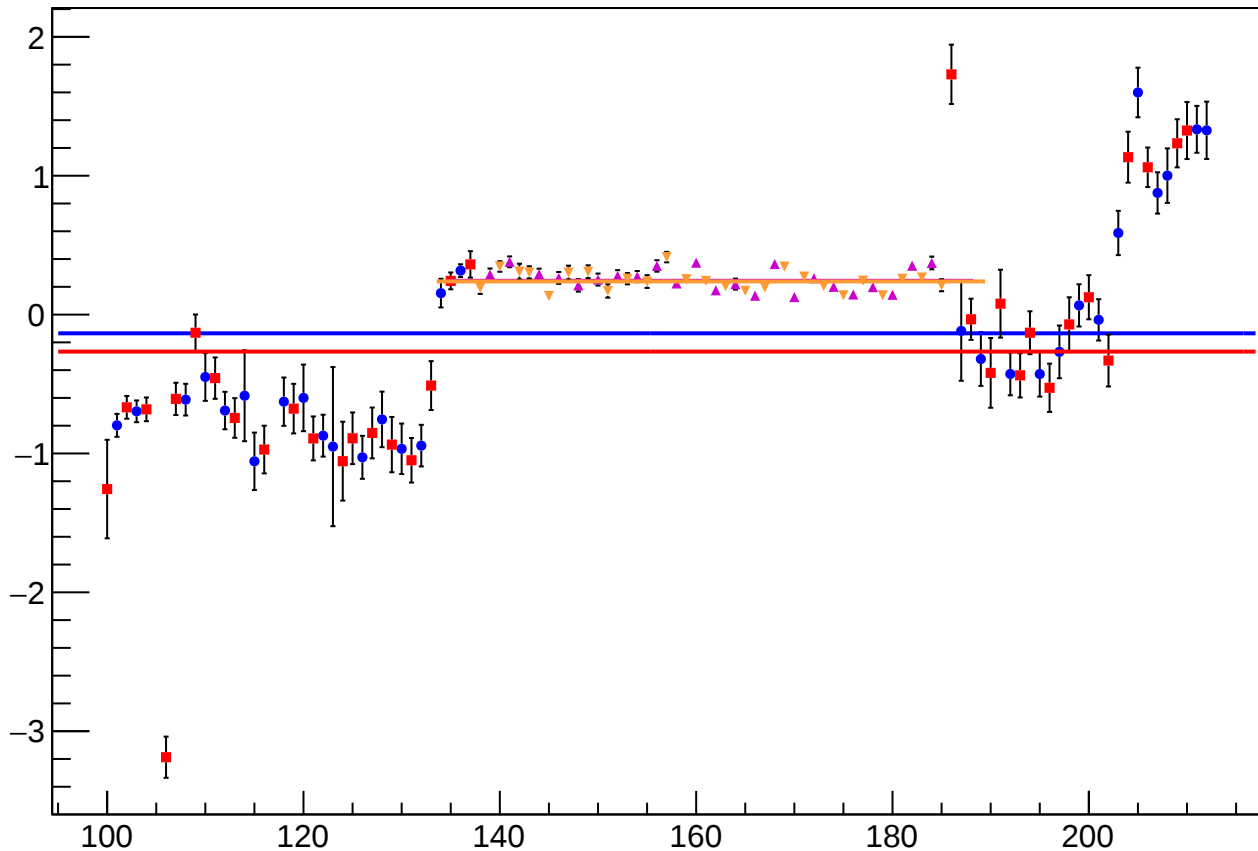


Right In: -7.313 ± 0.484 $\chi^2/\text{NDF}: 1220.4/29$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -6.085 ± 0.504 $\chi^2/\text{NDF}: 1040.2/32$
 Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$
 Right: -6.723 ± 0.349 $\chi^2/\text{NDF}: 2263.7/62$
 In: -19.168 ± 0.149 $\chi^2/\text{NDF}: 4185.3/52$
 Out: -18.688 ± 0.146 $\chi^2/\text{NDF}: 3655.3/57$

All: -18.923 ± 0.104 $\chi^2/\text{NDF}: 7845.9/110$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.024 χ^2/NDF : 740.8/29

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.267 ± 0.025 χ^2/NDF : 1067.2/32

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

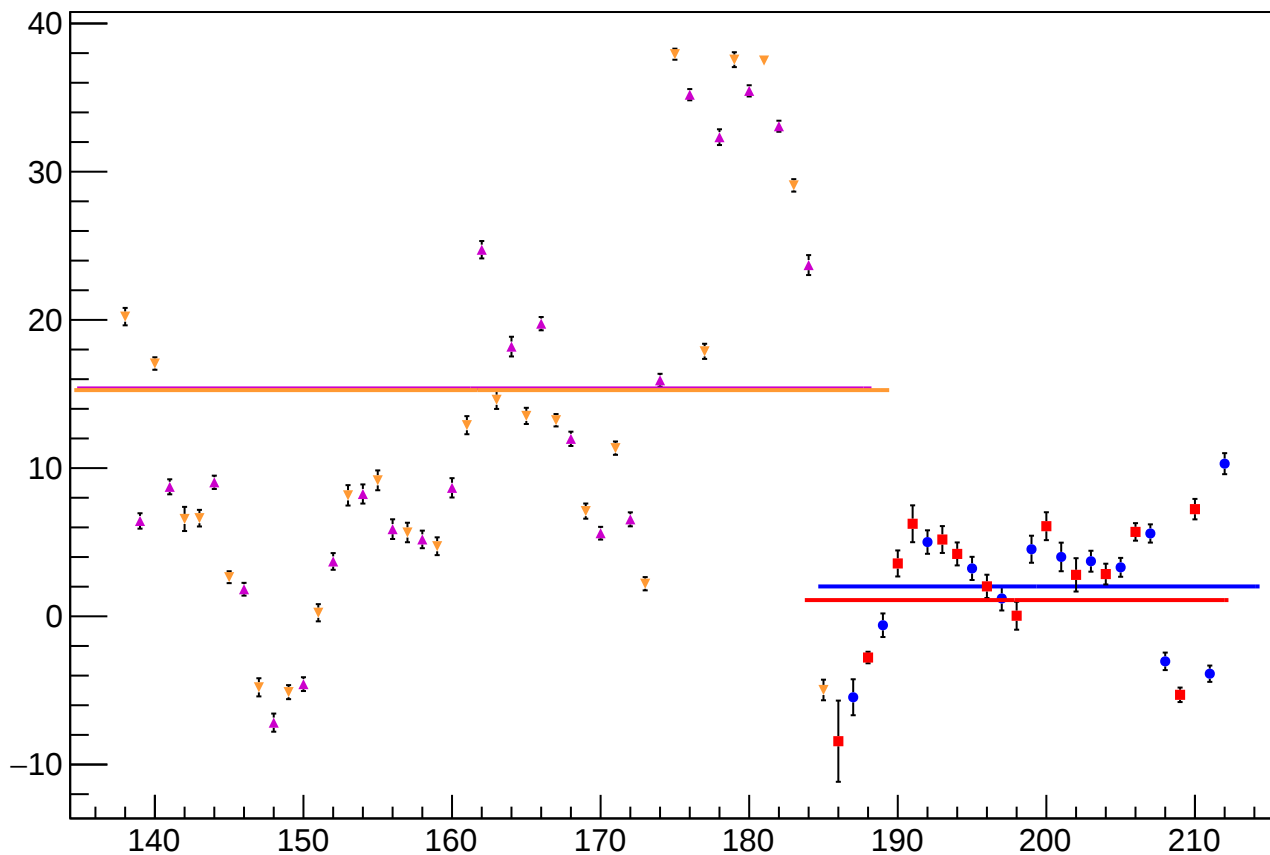
Right: -0.199 ± 0.017 χ^2/NDF : 1822.8/62

In: 0.212 ± 0.007 χ^2/NDF : 1108.0/52

Out: 0.200 ± 0.007 χ^2/NDF : 1553.3/57

All: 0.206 ± 0.005 χ^2/NDF : 2662.8/110

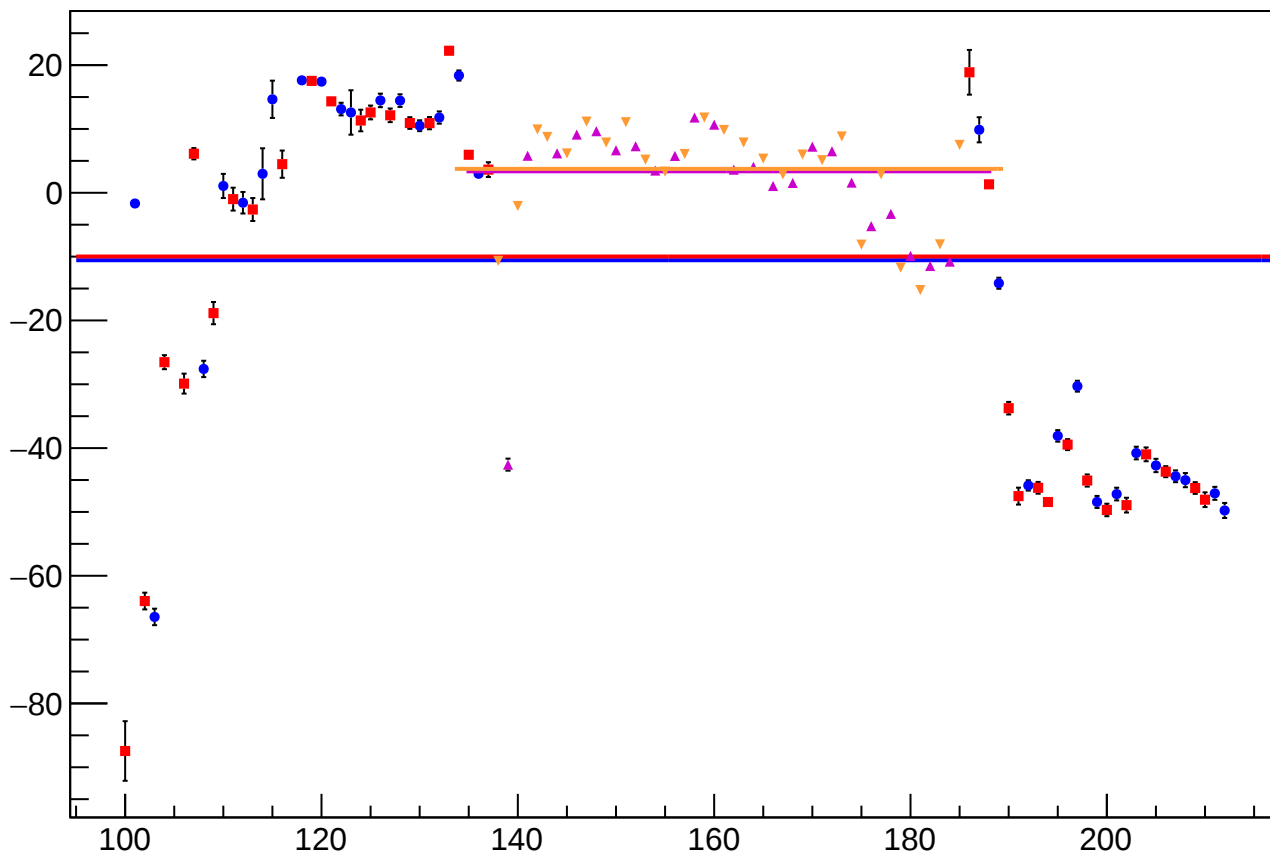
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.016 ± 0.202 $\chi^2/\text{NDF}: 446.2/12$
 Left Out: 15.263 ± 0.100 $\chi^2/\text{NDF}: 19175.2/24$
 Right Out: 1.095 ± 0.191 $\chi^2/\text{NDF}: 522.8/13$
 Left In: 15.377 ± 0.103 $\chi^2/\text{NDF}: 16268.9/22$

Left: 15.318 ± 0.072 $\chi^2/\text{NDF}: 35444.7/47$
 Right: 1.530 ± 0.139 $\chi^2/\text{NDF}: 980.1/26$
 In: 12.625 ± 0.092 $\chi^2/\text{NDF}: 20197.9/35$
 Out: 12.190 ± 0.089 $\chi^2/\text{NDF}: 24009.4/38$
 All: 12.401 ± 0.064 $\chi^2/\text{NDF}: 44218.9/74$

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -10.566 $\pm$ 0.170 χ^2 /NDF: 25326.2/29

Left Out: 3.746 $\pm$ 0.079 χ^2 /NDF: 9247.4/24

Right Out: -9.985 $\pm$ 0.163 χ^2 /NDF: 30304.0/32

Left In: 3.365 $\pm$ 0.081 χ^2 /NDF: 8527.0/22

Left: 3.561 $\pm$ 0.057 χ^2 /NDF: 17785.7/47

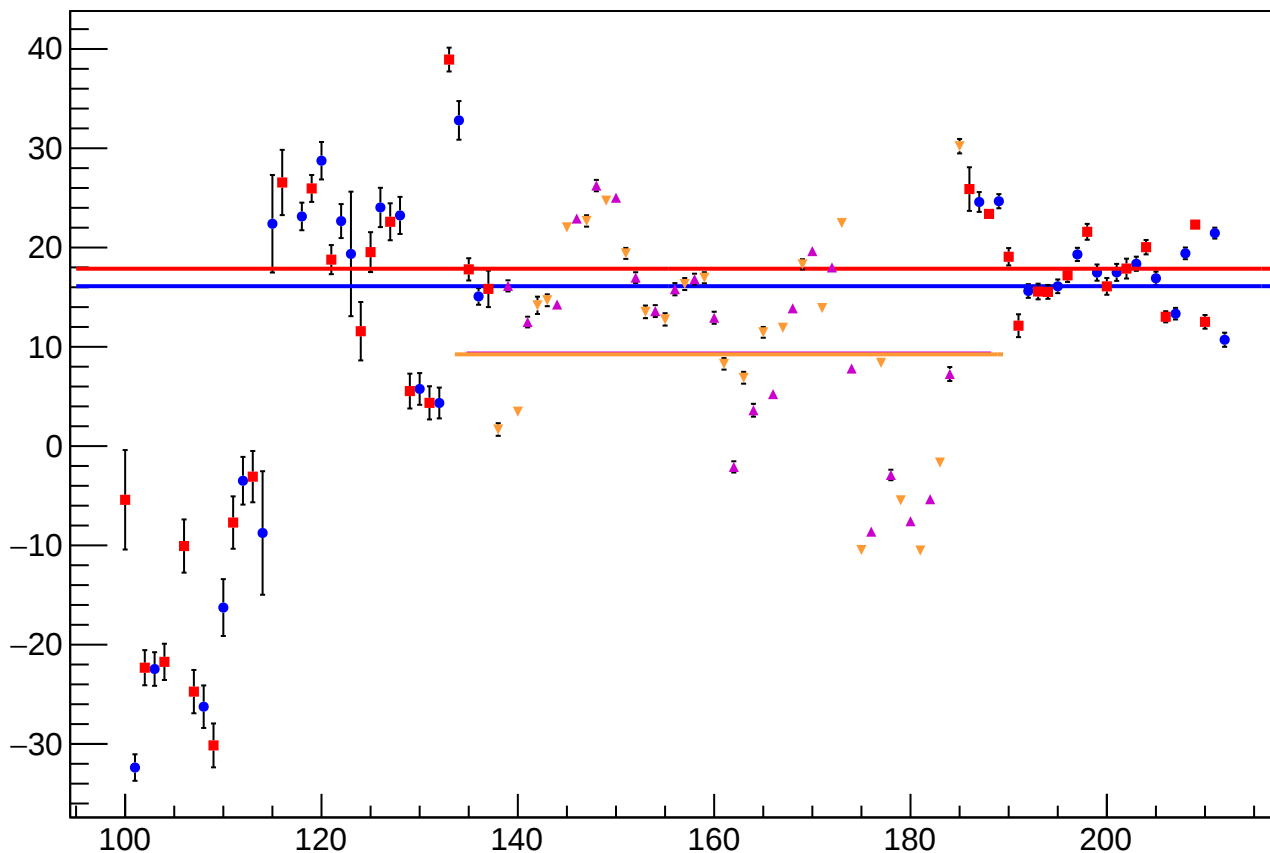
Right: -10.261 $\pm$ 0.118 χ^2 /NDF: 55636.2/62

In: 0.787 $\pm$ 0.073 χ^2 /NDF: 39294.6/52

Out: 1.136 $\pm$ 0.071 χ^2 /NDF: 45329.2/57

All: 0.968 $\pm$ 0.051 χ^2 /NDF: 84635.5/110

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 16.107 $\pm$ 0.173 χ^2 /NDF: 3193.7/29

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 17.868 $\pm$ 0.160 χ^2 /NDF: 3227.0/32

Left In: 9.328 $\pm$ 0.103 χ^2 /NDF:11968.5/22

Left: 9.284 $\pm$ 0.072 χ^2 /NDF: 25602.0/47

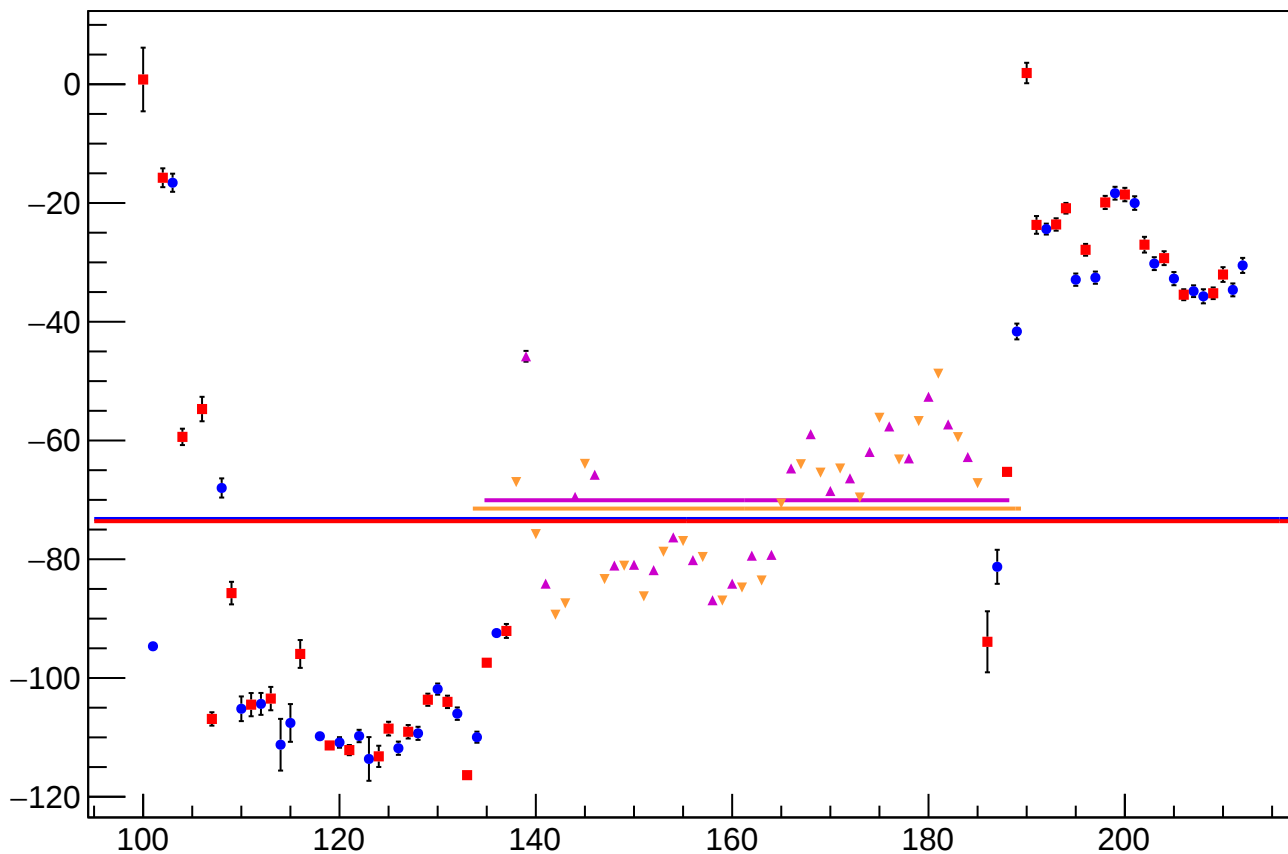
Right: 17.059 $\pm$ 0.118 χ^2 /NDF: 6476.4/62

In: 11.085 $\pm$ 0.088 χ^2 /NDF:16294.6/52

Out: 11.701 $\pm$ 0.085 χ^2 /NDF:18943.6/57

All: 11.404 $\pm$ 0.061 χ^2 /NDF: 35263.4/110

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -73.216+/-0.196 χ^2/NDF : 35193.1/29

Left Out: -71.465+/-0.089 χ^2/NDF : 16409.7/24

Right Out: -73.589+/-0.190 χ^2/NDF : 42512.3/32

Left In: -70.061+/-0.092 χ^2/NDF : 13058.5/22

Left: -70.782+/-0.064 χ^2/NDF : 29588.5/47

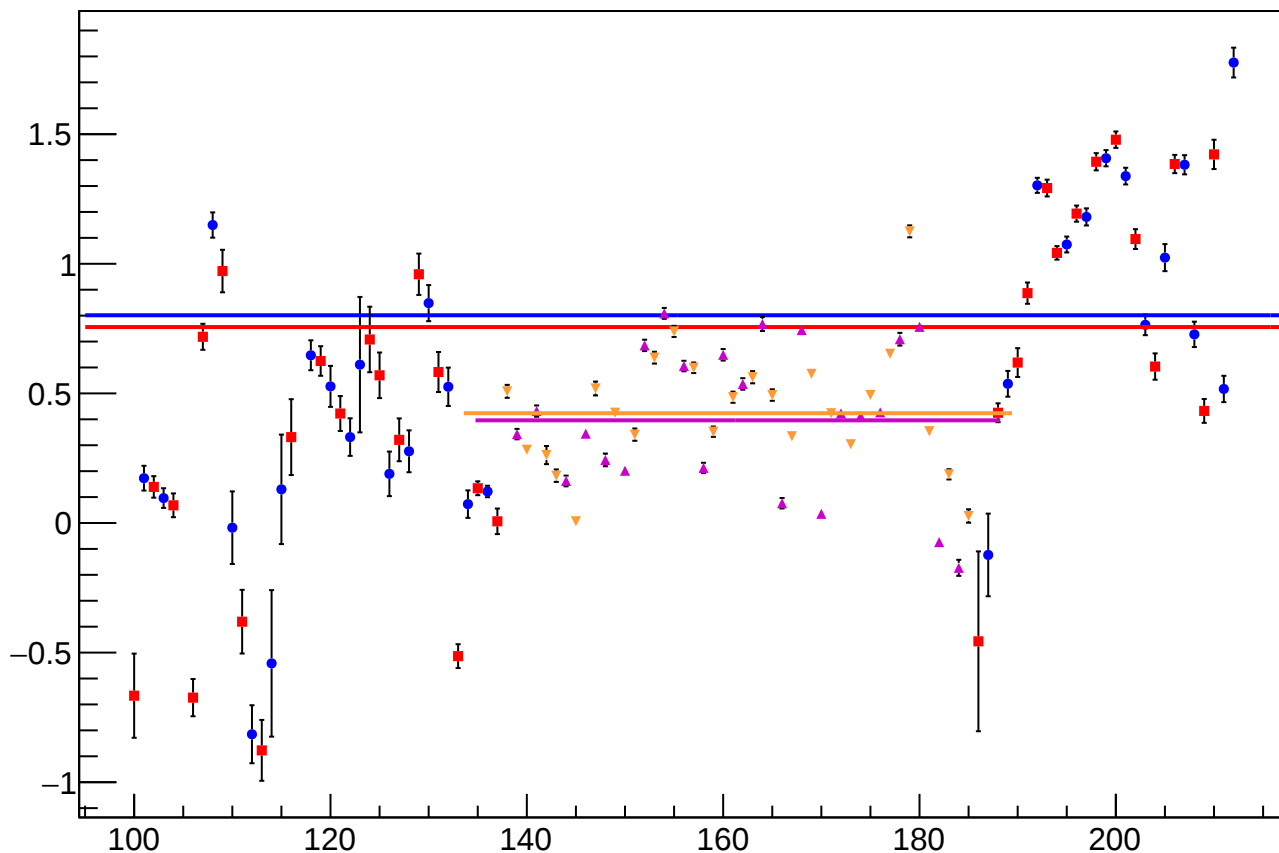
Right: -73.408+/-0.136 χ^2/NDF : 77707.2/62

In: -70.629+/-0.083 χ^2/NDF : 48464.5/52

Out: -71.849+/-0.081 χ^2/NDF : 59024.1/57

All: -71.256+/-0.058 χ^2/NDF : 107599.5/110

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.801 $\pm$ 0.008 χ^2 /NDF: 3957.2/29

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.756 $\pm$ 0.008 χ^2 /NDF: 5009.1/32

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

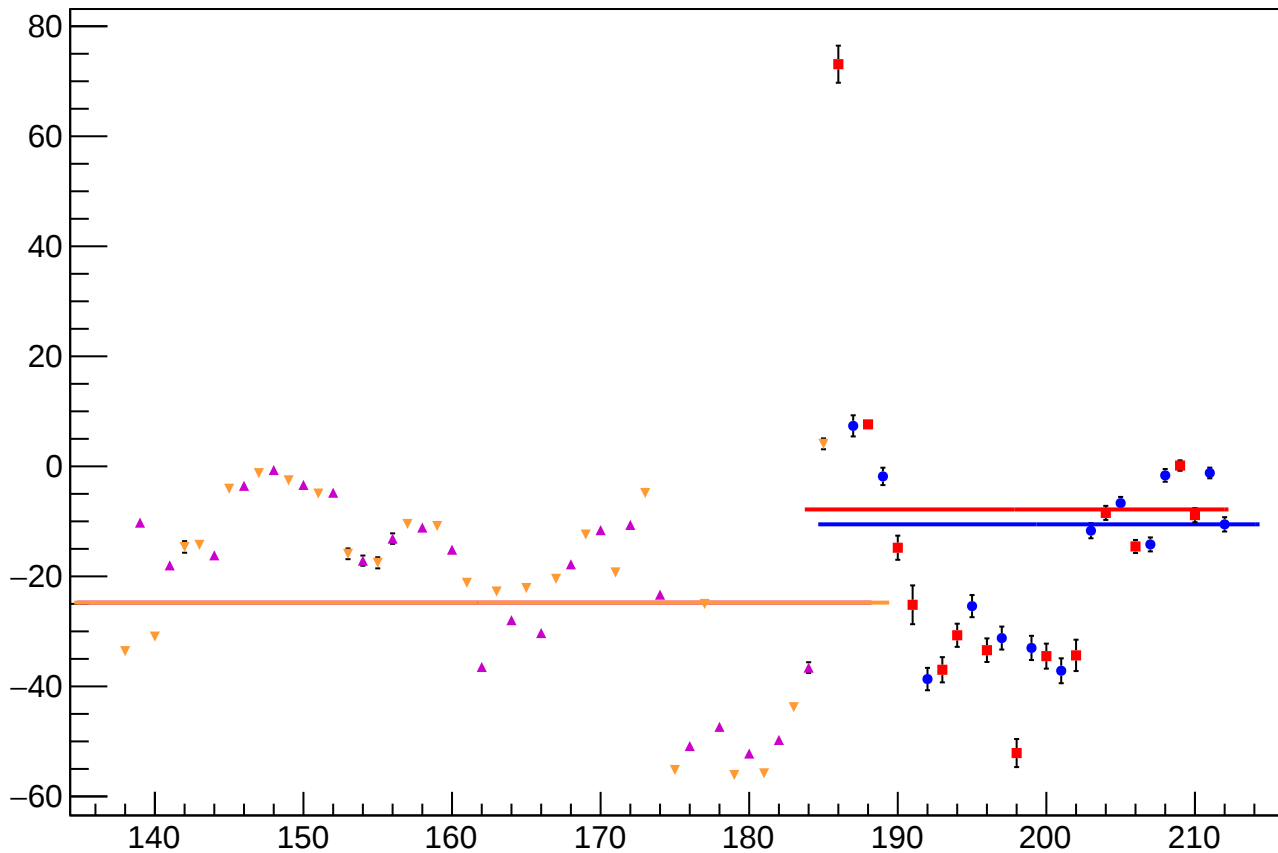
Right: 0.778 $\pm$ 0.006 χ^2 /NDF: 8981.3/62

In: 0.475 $\pm$ 0.004 χ^2 /NDF:9847.0/52

Out: 0.491 $\pm$ 0.004 χ^2 /NDF:9232.2/57

All: 0.483 $\pm$ 0.003 χ^2 /NDF: 19088.9/110

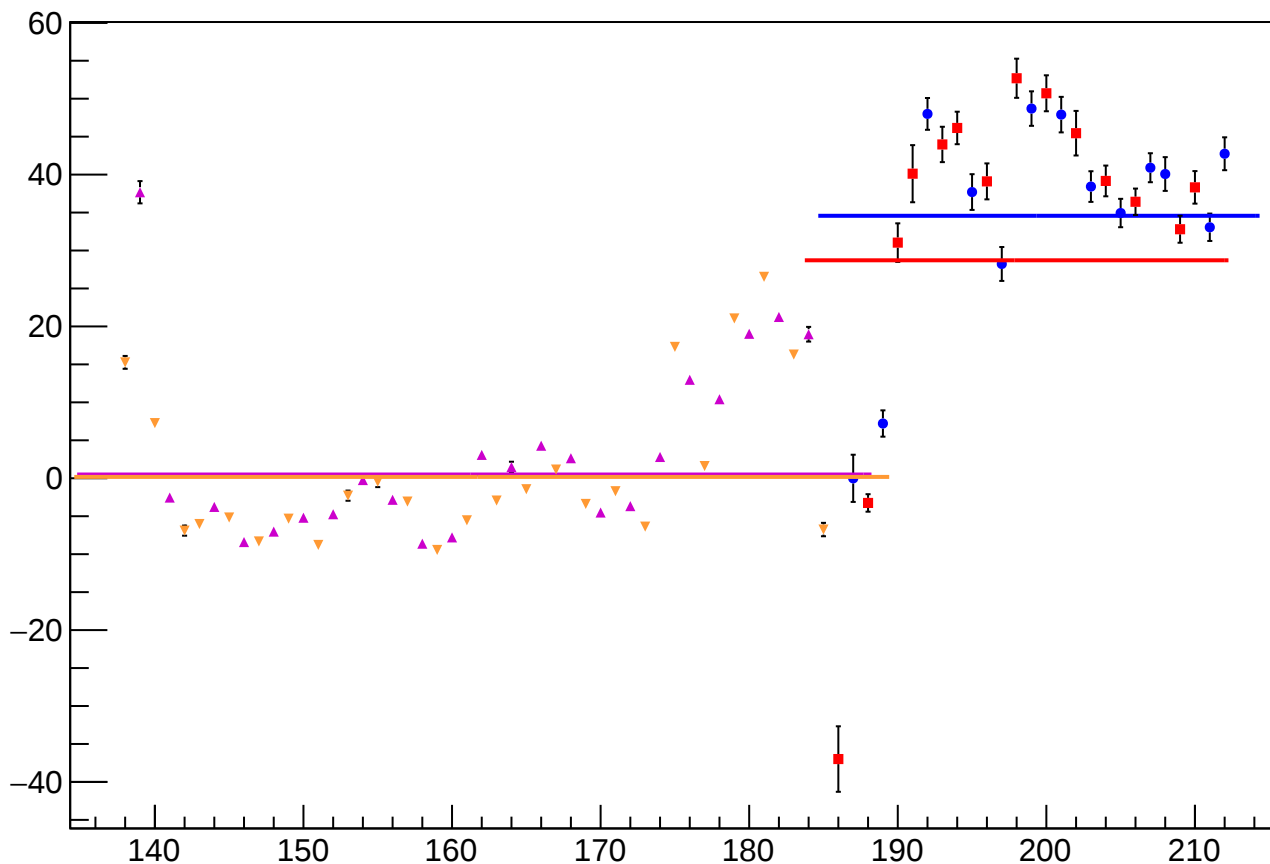
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.541 ± 0.405 $\chi^2/\text{NDF}: 874.2/12$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -7.834 ± 0.405 $\chi^2/\text{NDF}: 2035.8/13$
 Left In: -24.775 ± 0.143 $\chi^2/\text{NDF}: 14807.4/22$

Left: -24.772 ± 0.100 $\chi^2/\text{NDF}: 33126.2/47$
 Right: -9.191 ± 0.286 $\chi^2/\text{NDF}: 2932.4/26$
 In: -23.199 ± 0.135 $\chi^2/\text{NDF}: 16782.2/35$
 Out: -22.979 ± 0.132 $\chi^2/\text{NDF}: 21914.5/38$
 All: -23.087 ± 0.094 $\chi^2/\text{NDF}: 38698.1/74$

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 34.575 $\pm$ 0.582 χ^2 /NDF: 530.9/12

Left Out: 0.177 $\pm$ 0.109 χ^2 /NDF:8295.6/24

Right Out: 28.711 $\pm$ 0.562 χ^2 /NDF: 1416.4/13

Left In: 0.493 $\pm$ 0.112 χ^2 /NDF:6555.4/22

Left: 0.330 $\pm$ 0.078 χ^2 /NDF: 14855.0/47

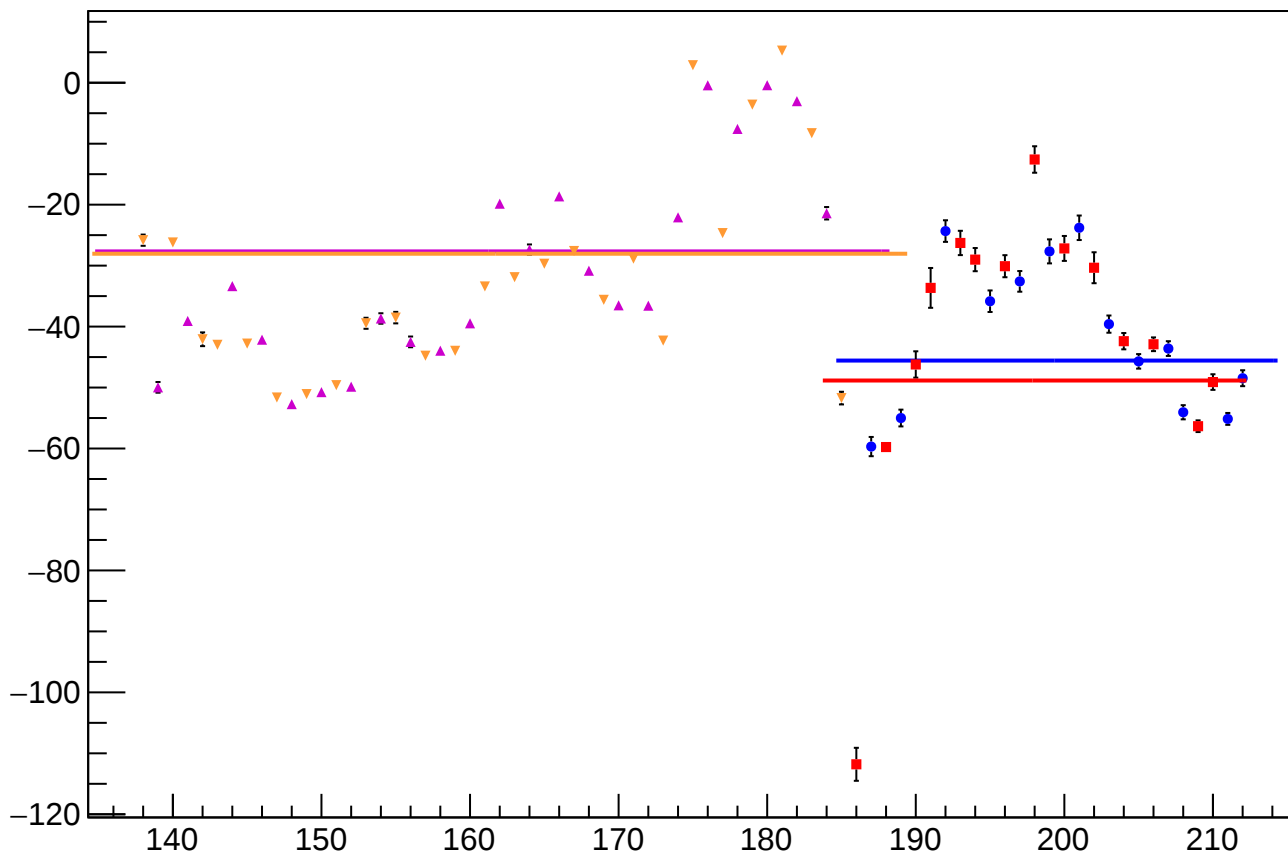
Right: 31.540 $\pm$ 0.404 χ^2 /NDF: 1999.7/26

In: 1.712 $\pm$ 0.110 χ^2 /NDF:10391.2/35

Out: 1.203 $\pm$ 0.107 χ^2 /NDF:12197.3/38

All: 1.449 $\pm$ 0.077 χ^2 /NDF: 22599.5/74

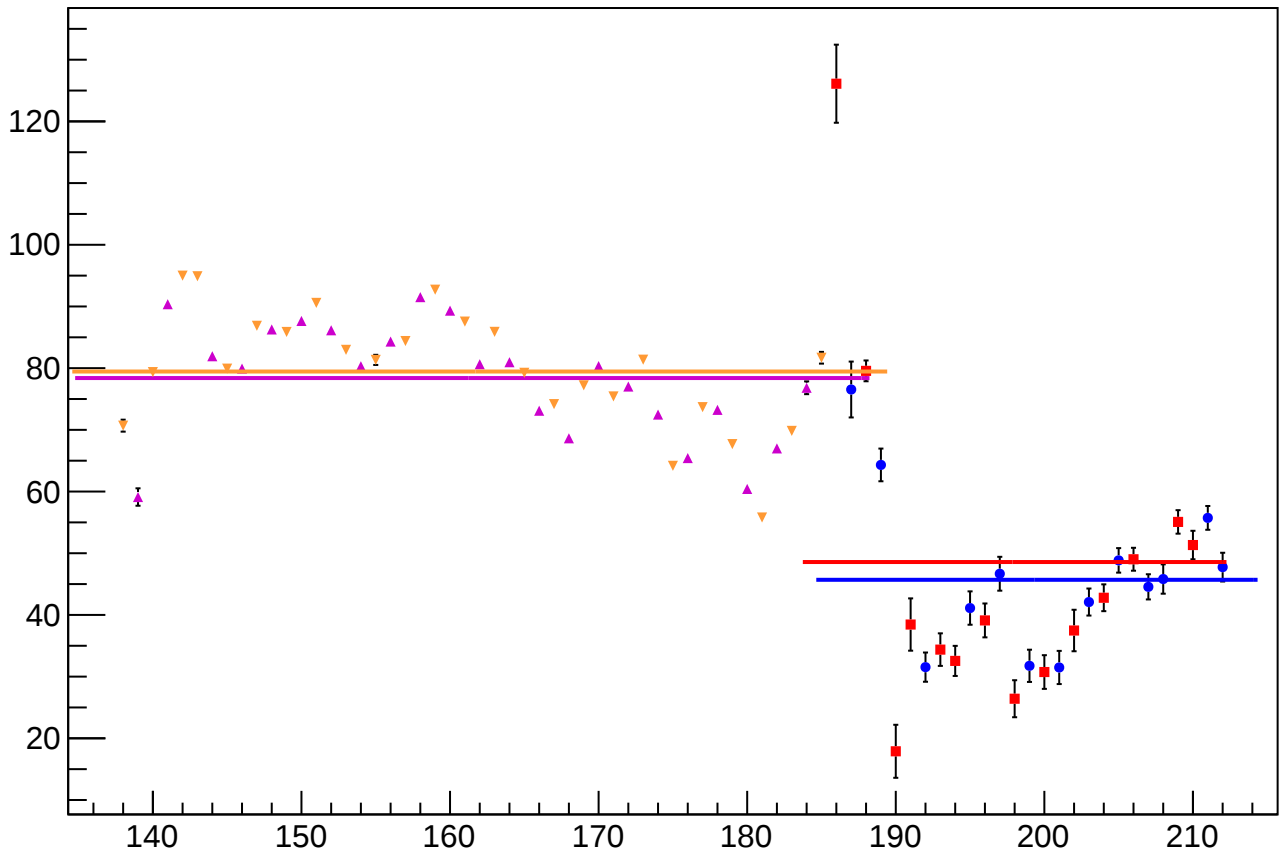
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -45.574 ± 0.387 χ^2/NDF : 734.7/12
 Left Out: -28.050 ± 0.140 χ^2/NDF : 17144.5/24
 Right Out: -48.846 ± 0.370 χ^2/NDF : 1748.9/13
 Left In: -27.666 ± 0.142 χ^2/NDF : 15003.2/22

Left: -27.862 ± 0.100 χ^2/NDF : 32151.3/47
 Right: -47.283 ± 0.267 χ^2/NDF : 2521.0/26
 In: -29.806 ± 0.134 χ^2/NDF : 17626.1/35
 Out: -30.653 ± 0.131 χ^2/NDF : 21659.8/38
 All: -30.238 ± 0.093 χ^2/NDF : 39306.3/74

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.694+/-0.666 χ^2/NDF : 224.3/12

Left Out: 79.456+/-0.123 χ^2/NDF : 6077.1/24

Right Out: 48.574+/-0.670 χ^2/NDF : 756.8/13

Left In: 78.396+/-0.127 χ^2/NDF : 4707.3/22

Left: 78.941+/-0.088 χ^2/NDF : 10820.4/47

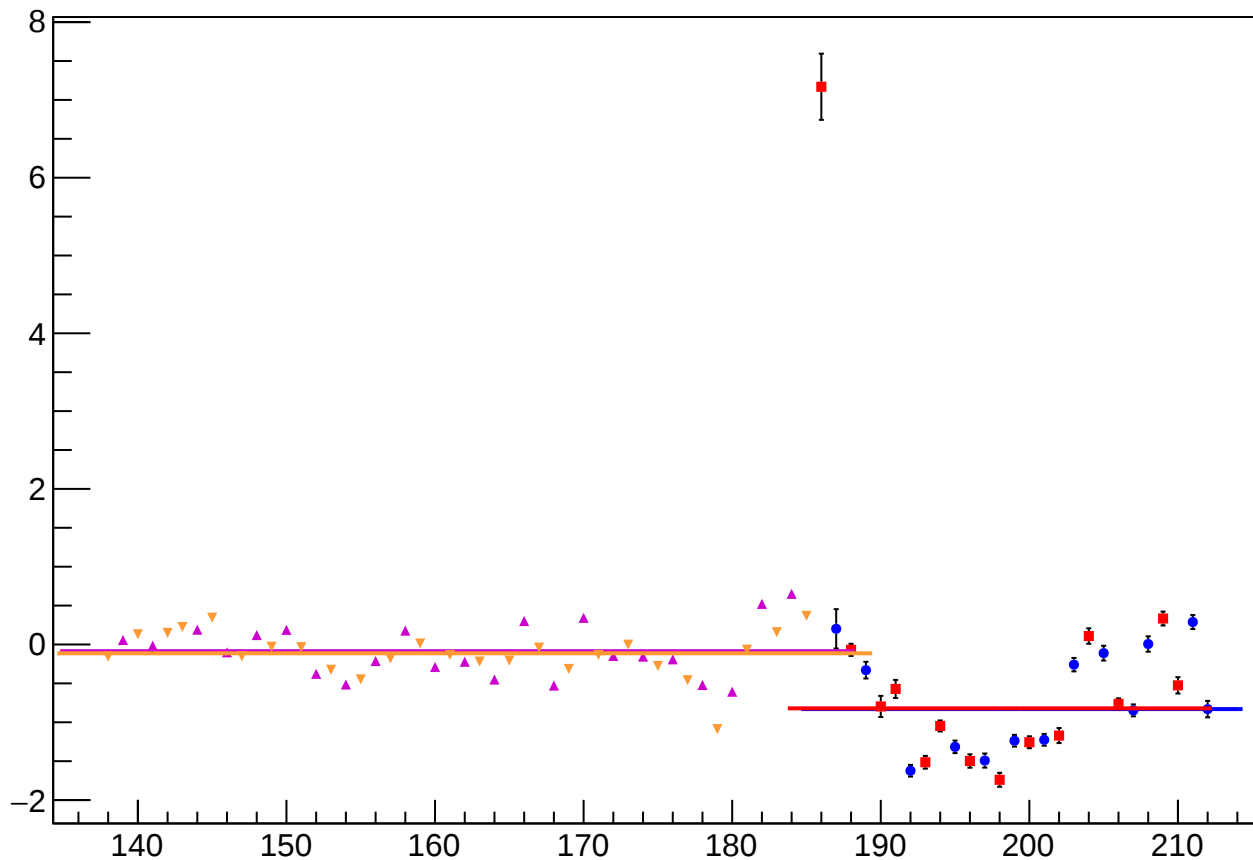
Right: 47.126+/-0.472 χ^2/NDF : 990.4/26

In: 77.253+/-0.125 χ^2/NDF : 7258.9/35

Out: 78.445+/-0.121 χ^2/NDF : 8890.6/38

All: 77.865+/-0.087 χ^2/NDF : 16196.6/74

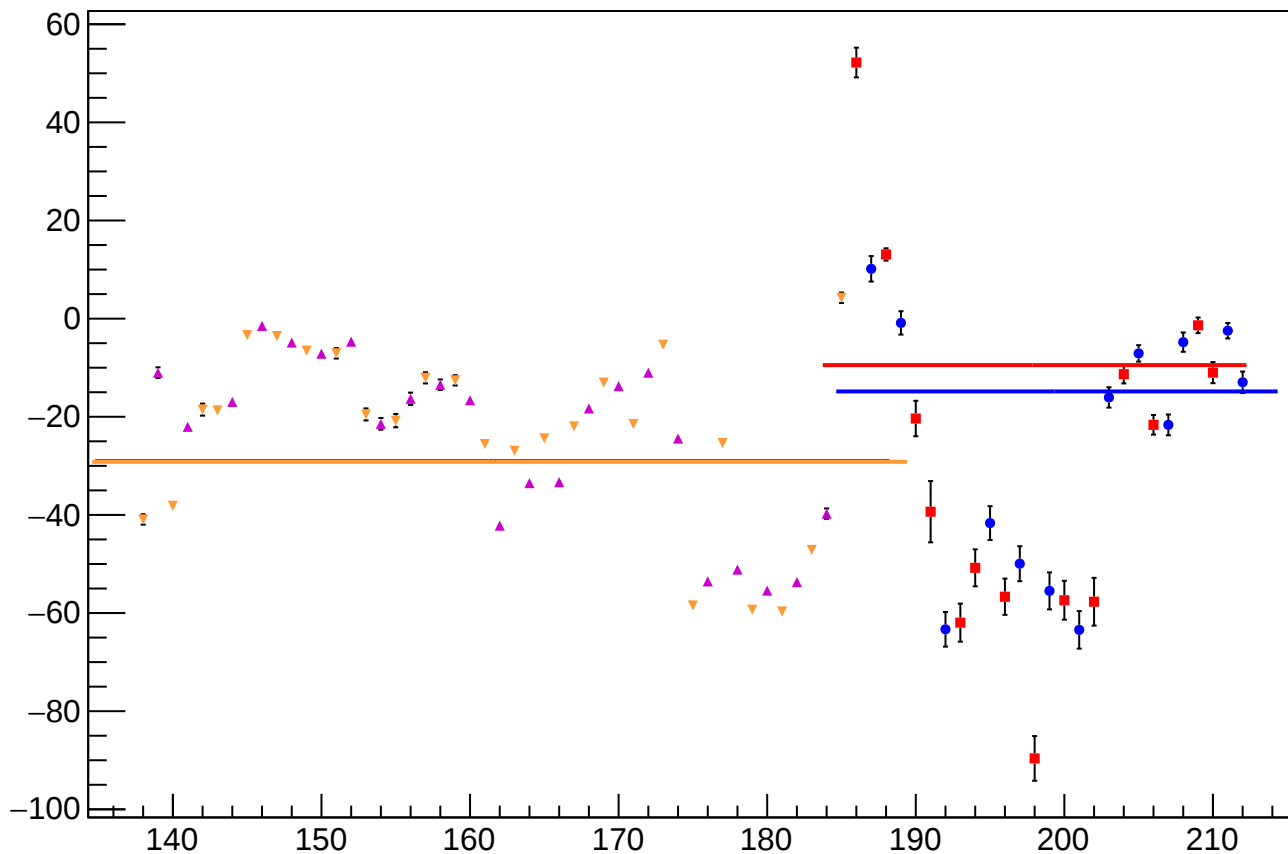
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.830 ± 0.025 χ^2/NDF : 623.1/12
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.821 ± 0.024 χ^2/NDF : 1006.7/13
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.826 ± 0.017 χ^2/NDF : 1629.9/26
 In: -0.125 ± 0.006 χ^2/NDF : 4614.2/35
 Out: -0.150 ± 0.006 χ^2/NDF : 4116.1/38
 All: -0.138 ± 0.004 χ^2/NDF : 8740.4/74

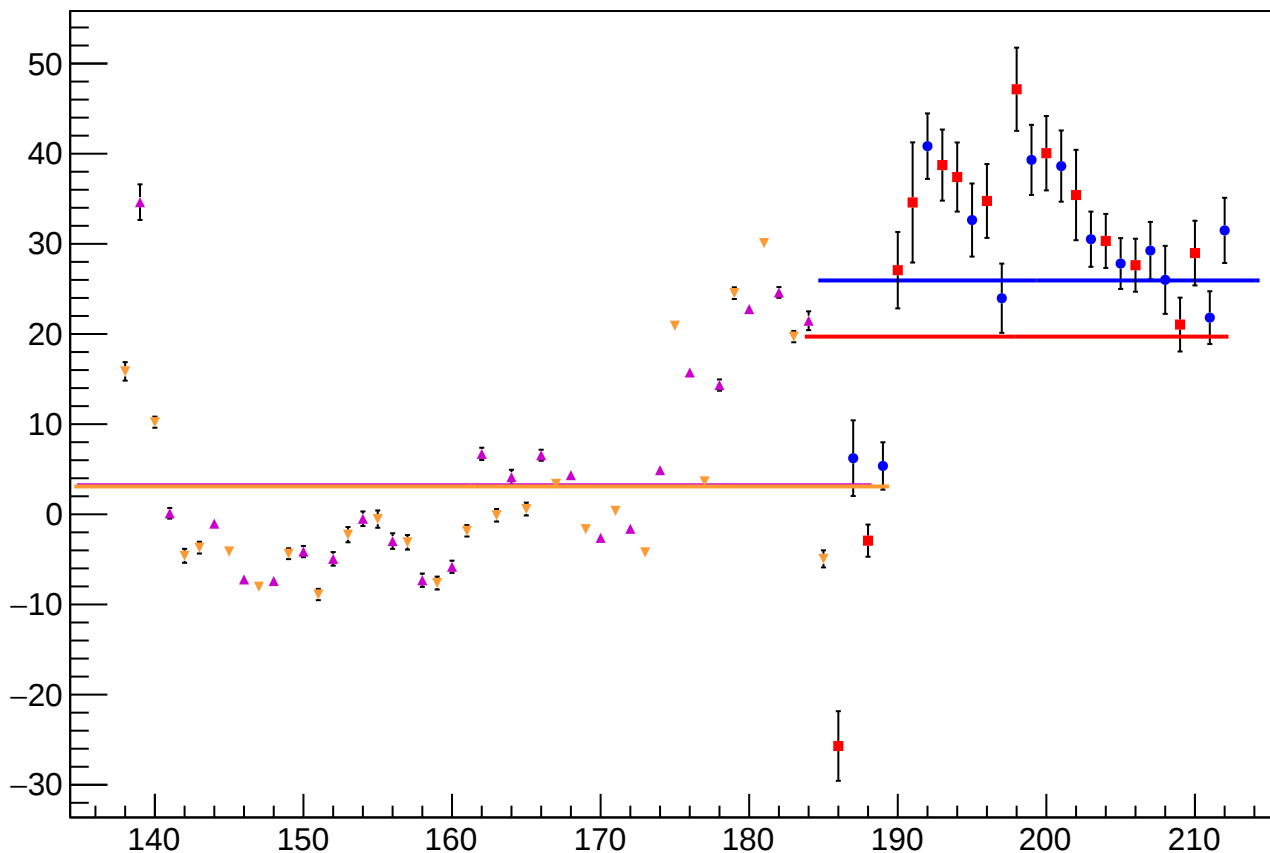
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.836 ± 0.647 $\chi^2/\text{NDF}: 870.5/12$
 Left Out: -29.180 ± 0.157 $\chi^2/\text{NDF}: 16912.2/24$
 Right Out: -9.473 ± 0.652 $\chi^2/\text{NDF}: 1854.7/13$
 Left In: -29.003 ± 0.160 $\chi^2/\text{NDF}: 13416.8/22$

Left: -29.093 ± 0.112 $\chi^2/\text{NDF}: 30329.6/47$
 Right: -12.173 ± 0.459 $\chi^2/\text{NDF}: 2759.4/26$
 In: -28.188 ± 0.155 $\chi^2/\text{NDF}: 14739.2/35$
 Out: -28.102 ± 0.152 $\chi^2/\text{NDF}: 19631.8/38$
 All: -28.144 ± 0.109 $\chi^2/\text{NDF}: 34371.2/74$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.939 $\pm$ 0.940 χ^2 /NDF: 133.5/12

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF:8084.1/24

Right Out: 19.710 $\pm$ 0.908 χ^2 /NDF: 461.4/13

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

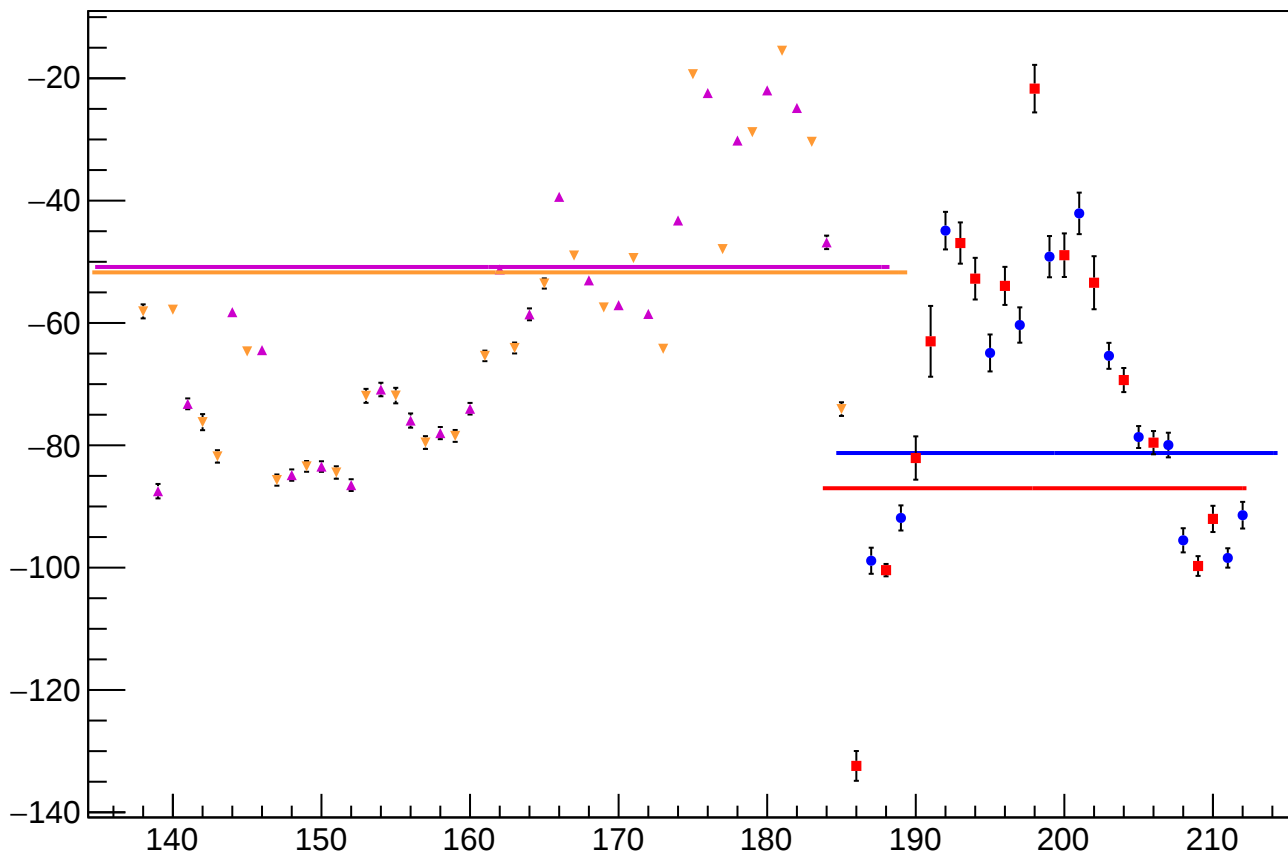
Right: 22.715 $\pm$ 0.653 χ^2 /NDF: 617.6/26

In: 3.628 $\pm$ 0.126 χ^2 /NDF:6944.4/35

Out: 3.397 $\pm$ 0.123 χ^2 /NDF:8874.5/38

All: 3.510 $\pm$ 0.088 χ^2 /NDF: 15820.7/74

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.261 $\pm$ 0.619 χ^2 /NDF: 790.7/12

Left Out: -51.729 $\pm$ 0.158 χ^2 /NDF:19538.0/24

Right Out: -87.019 $\pm$ 0.590 χ^2 /NDF: 1518.2/13

Left In: -50.844 $\pm$ 0.160 χ^2 /NDF:17272.0/22

Left: -51.293 $\pm$ 0.112 χ^2 /NDF: 36825.5/47

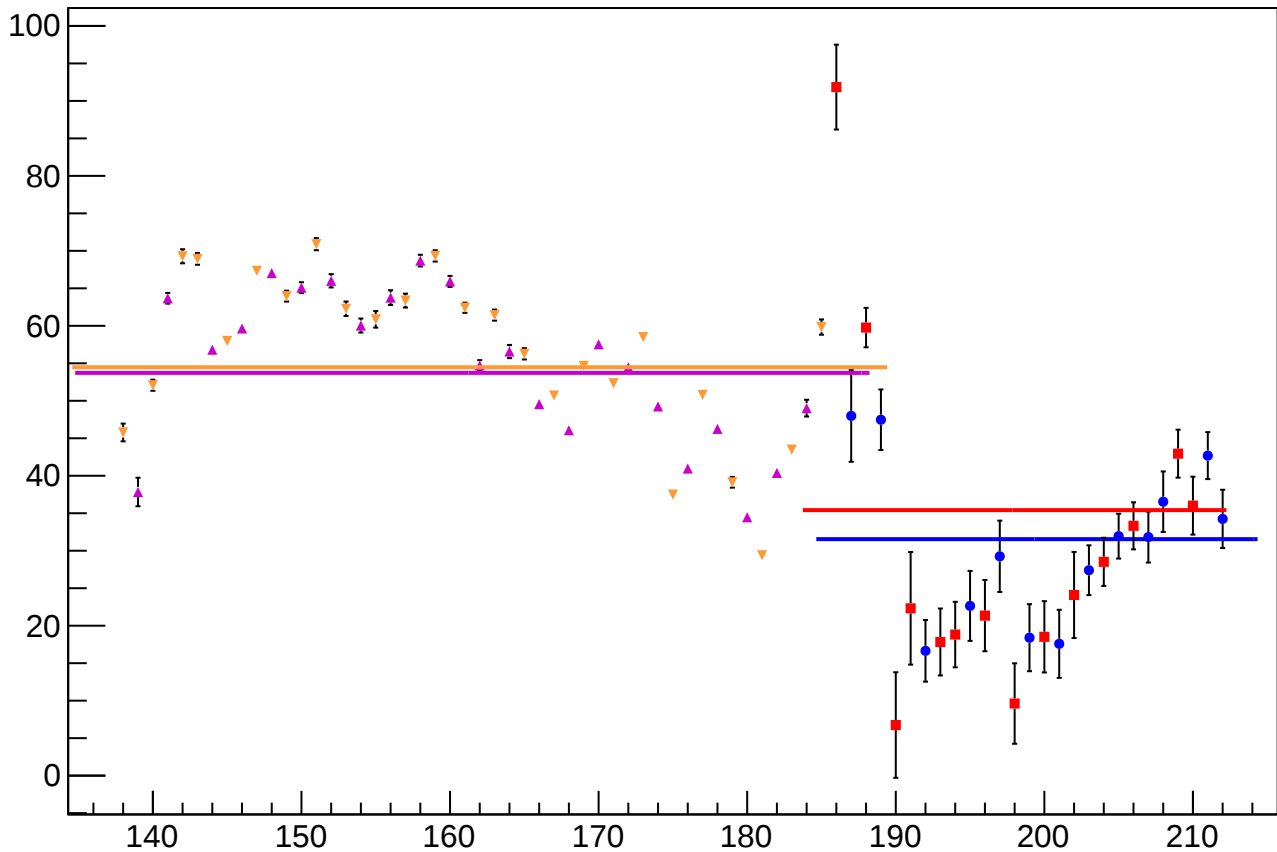
Right: -84.274 $\pm$ 0.427 χ^2 /NDF: 2354.2/26

In: -52.753 $\pm$ 0.155 χ^2 /NDF:20327.5/35

Out: -54.084 $\pm$ 0.153 χ^2 /NDF:24390.0/38

All: -53.429 $\pm$ 0.109 χ^2 /NDF: 44754.9/74

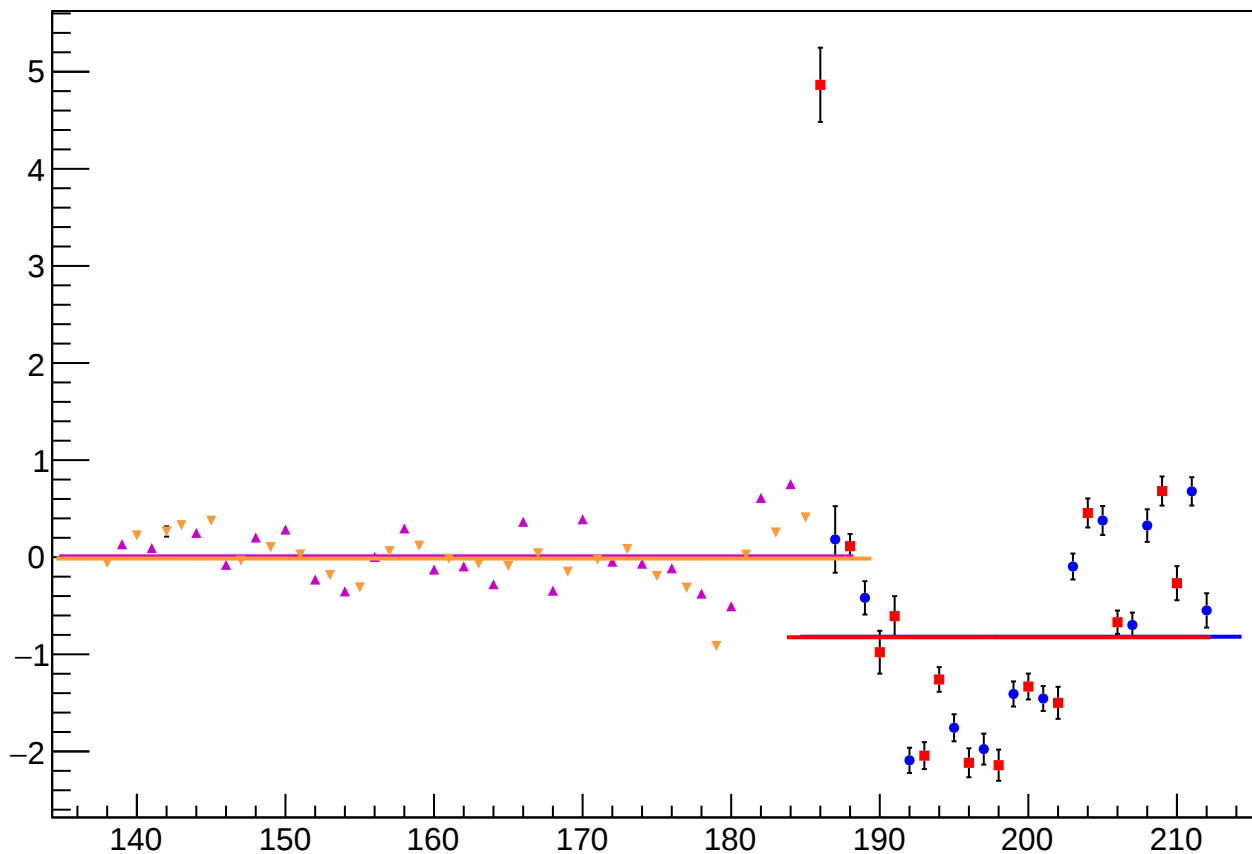
reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.545 ± 1.082 $\chi^2/\text{NDF}: 74.1/12$
 Left Out: 54.476 ± 0.140 $\chi^2/\text{NDF}: 6266.9/24$
 Right Out: 35.415 ± 1.096 $\chi^2/\text{NDF}: 293.6/13$
 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: 33.455 ± 0.770 $\chi^2/\text{NDF}: 374.1/26$
 In: 53.342 ± 0.142 $\chi^2/\text{NDF}: 5072.9/35$
 Out: 54.169 ± 0.139 $\chi^2/\text{NDF}: 6858.2/38$
 All: 53.764 ± 0.099 $\chi^2/\text{NDF}: 11948.4/74$

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.819 ± 0.041 χ^2/NDF : 502.7/12

Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24

Right Out: -0.824 ± 0.041 χ^2/NDF : 725.8/13

Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47

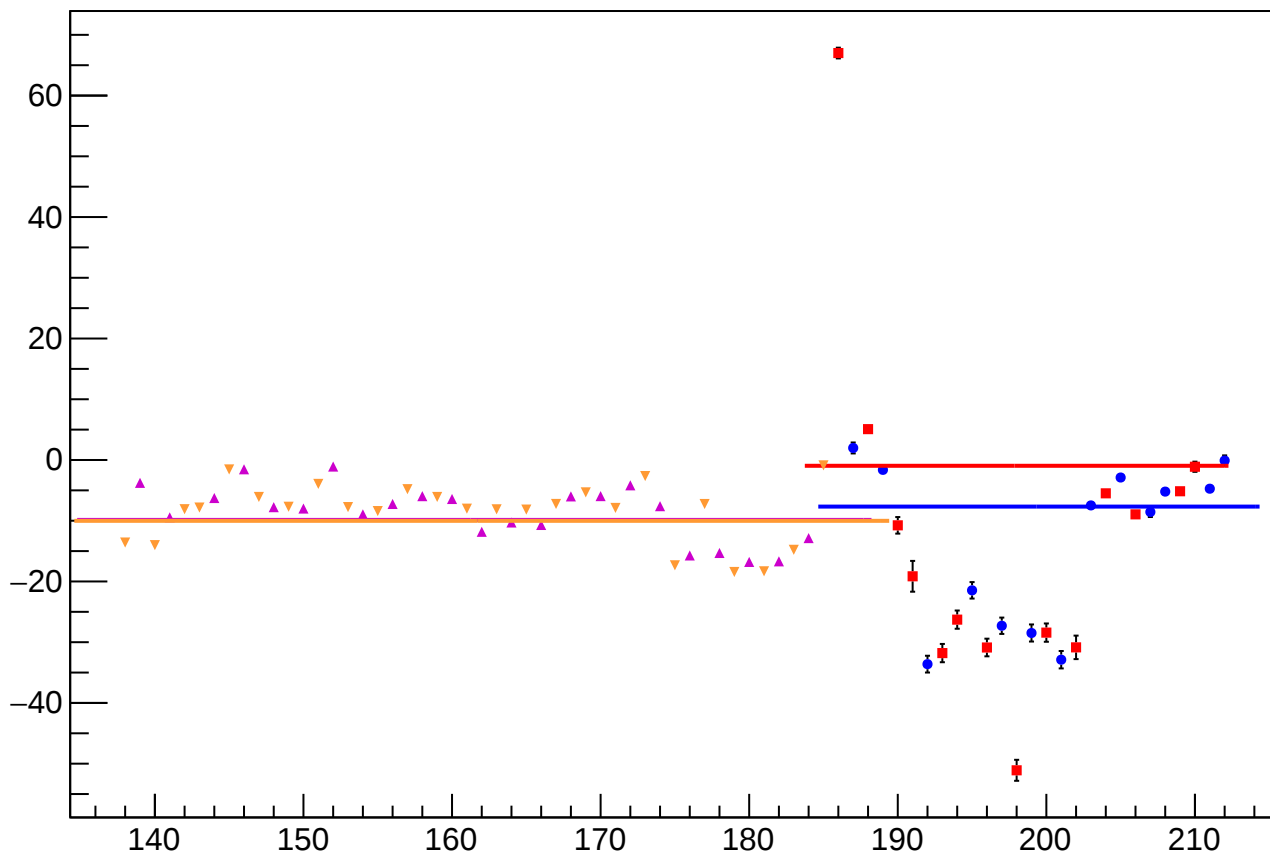
Right: -0.822 ± 0.029 χ^2/NDF : 1228.5/26

In: -0.011 ± 0.006 χ^2/NDF : 3117.9/35

Out: -0.033 ± 0.006 χ^2/NDF : 2762.7/38

All: -0.023 ± 0.005 χ^2/NDF : 5886.3/74

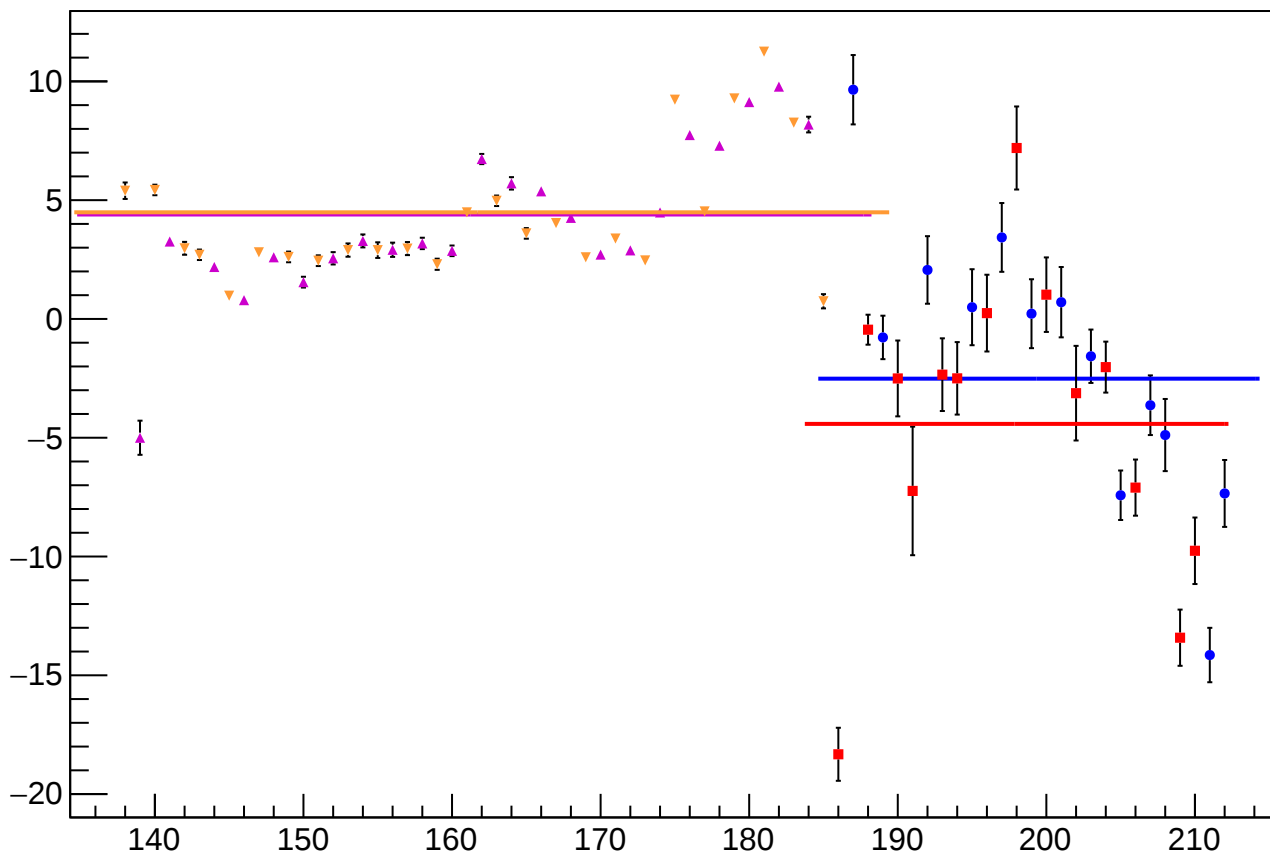
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.672 ± 0.244 $\chi^2/\text{NDF}: 1538.6/12$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: -0.954 ± 0.242 $\chi^2/\text{NDF}: 8915.5/13$
 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: -4.280 ± 0.172 $\chi^2/\text{NDF}: 10836.3/26$
 In: -9.772 ± 0.050 $\chi^2/\text{NDF}: 10961.2/35$
 Out: -9.636 ± 0.050 $\chi^2/\text{NDF}: 22813.8/38$
 All: -9.703 ± 0.035 $\chi^2/\text{NDF}: 33778.7/74$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.514 ± 0.353 χ^2/NDF : 253.2/12

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -4.418 ± 0.336 χ^2/NDF : 348.2/13

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

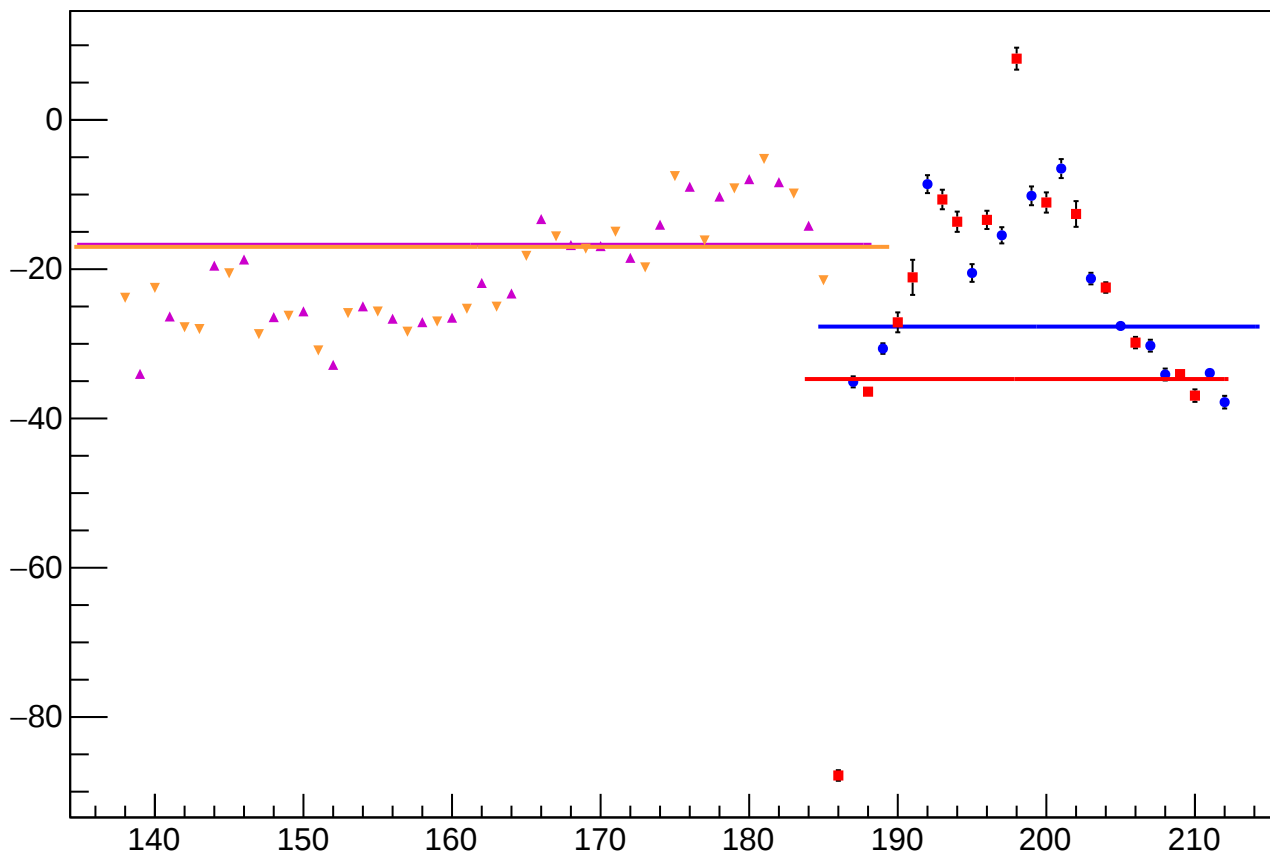
Right: -3.515 ± 0.243 χ^2/NDF : 616.6/26

In: 4.303 ± 0.041 χ^2/NDF : 4860.8/35

Out: 4.360 ± 0.040 χ^2/NDF : 5874.8/38

All: 4.332 ± 0.029 χ^2/NDF : 10736.6/74

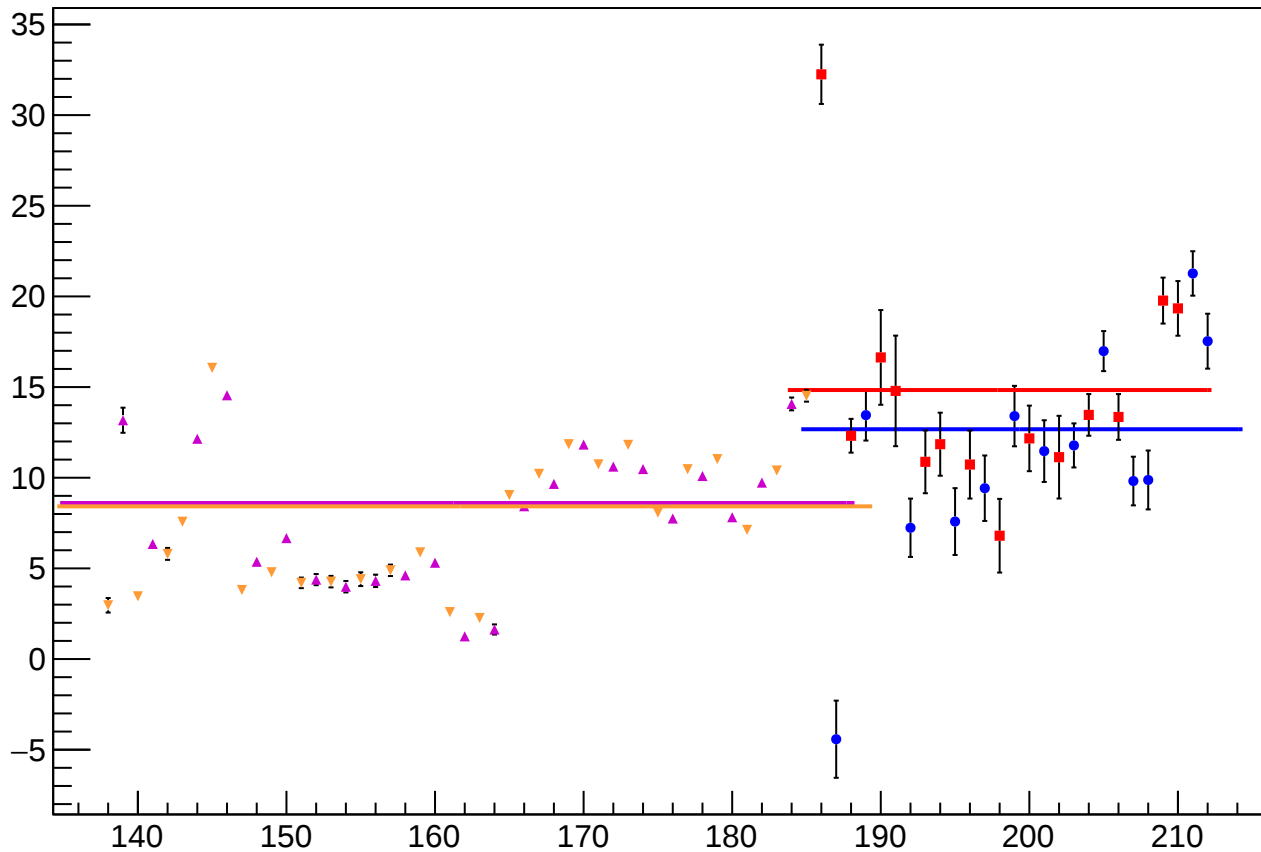
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -27.691 ± 0.233 $\chi^2/\text{NDF}: 1391.1/12$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -34.718 ± 0.217 $\chi^2/\text{NDF}: 8225.3/13$
 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: -31.450 ± 0.159 $\chi^2/\text{NDF}: 10103.2/26$
 In: -17.243 ± 0.050 $\chi^2/\text{NDF}: 22278.3/35$
 Out: -17.936 ± 0.050 $\chi^2/\text{NDF}: 36620.7/38$
 All: -17.594 ± 0.035 $\chi^2/\text{NDF}: 58995.1/74$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.674 ± 0.410 $\chi^2/\text{NDF}: 170.6/12$

Left Out: 8.422 ± 0.046 $\chi^2/\text{NDF}: 6470.1/24$

Right Out: 14.837 ± 0.411 $\chi^2/\text{NDF}: 181.5/13$

Left In: 8.606 ± 0.046 $\chi^2/\text{NDF}: 5504.2/22$

Left: 8.513 ± 0.032 $\chi^2/\text{NDF}: 11982.4/47$

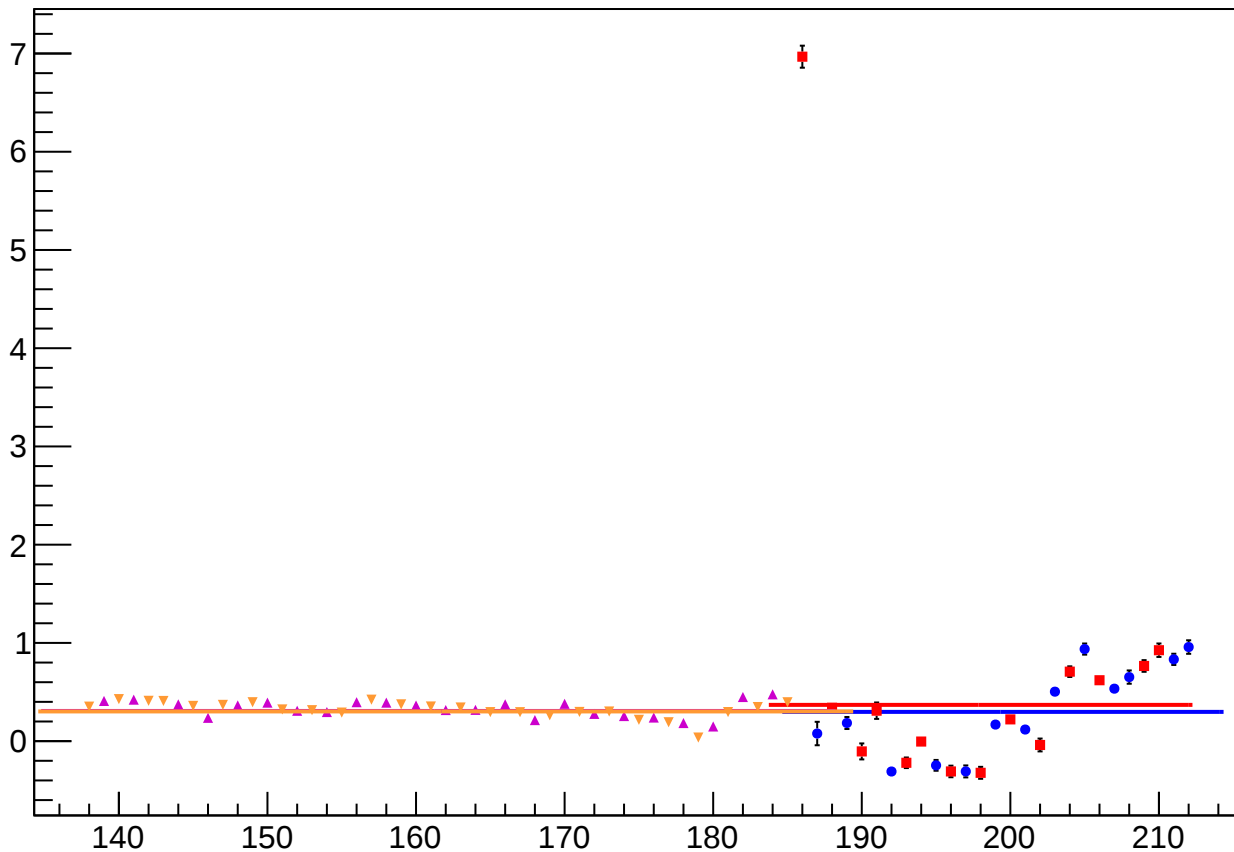
Right: 13.752 ± 0.290 $\chi^2/\text{NDF}: 366.0/26$

In: 8.658 ± 0.046 $\chi^2/\text{NDF}: 5772.1/35$

Out: 8.500 ± 0.045 $\chi^2/\text{NDF}: 6892.1/38$

All: 8.577 ± 0.032 $\chi^2/\text{NDF}: 12670.2/74$

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.298 ± 0.016 χ^2/NDF : 740.3/12

Left Out: 0.302 ± 0.002 χ^2/NDF : 1590.9/24

Right Out: 0.369 ± 0.016 χ^2/NDF : 4153.7/13

Left In: 0.307 ± 0.002 χ^2/NDF : 1699.5/22

Left: 0.305 ± 0.001 χ^2/NDF : 3293.0/47

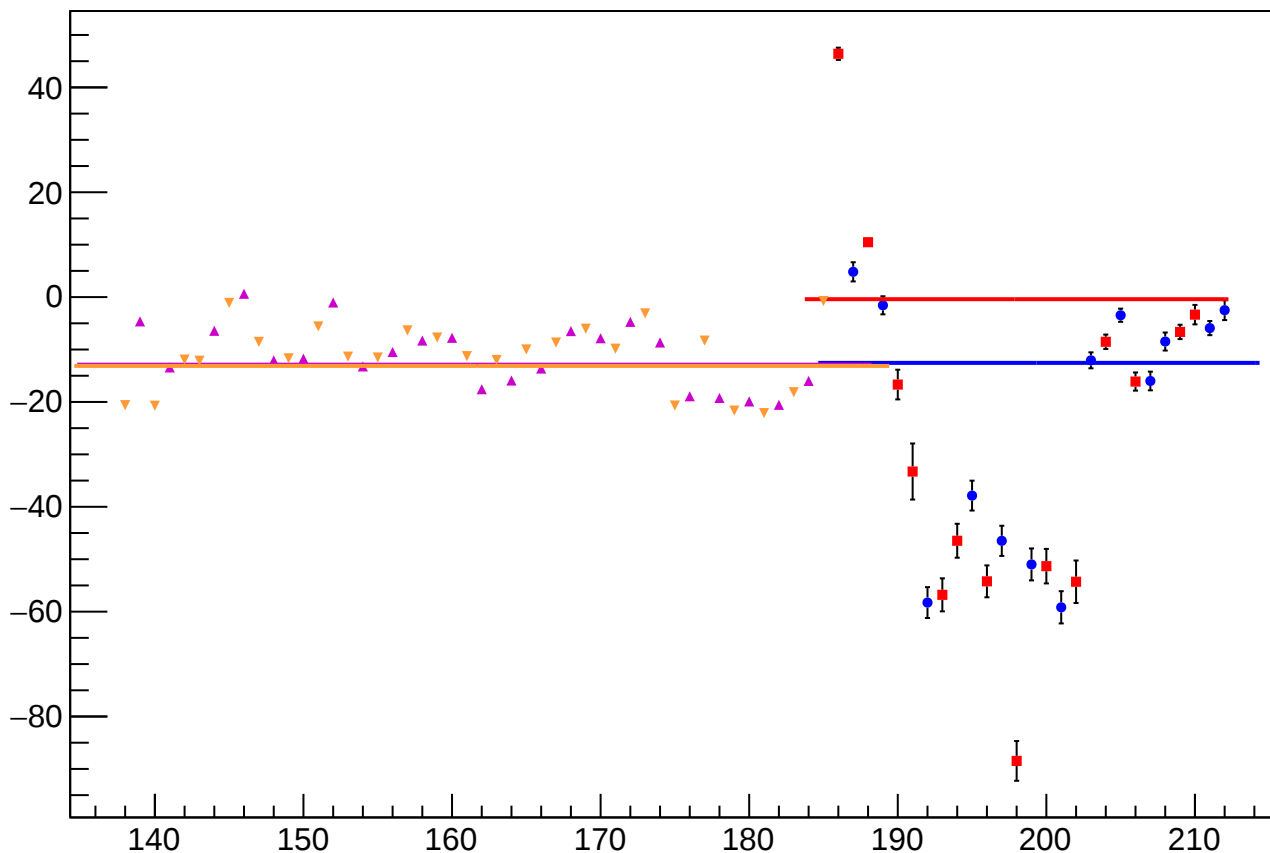
Right: 0.334 ± 0.011 χ^2/NDF : 4904.3/26

In: 0.307 ± 0.002 χ^2/NDF : 2440.2/35

Out: 0.304 ± 0.002 χ^2/NDF : 5762.4/38

All: 0.305 ± 0.001 χ^2/NDF : 8203.9/74

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.545 ± 0.516 $\chi^2/\text{NDF}: 1093.4/12$

Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$

Right Out: -0.399 ± 0.485 $\chi^2/\text{NDF}: 3749.3/13$

Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

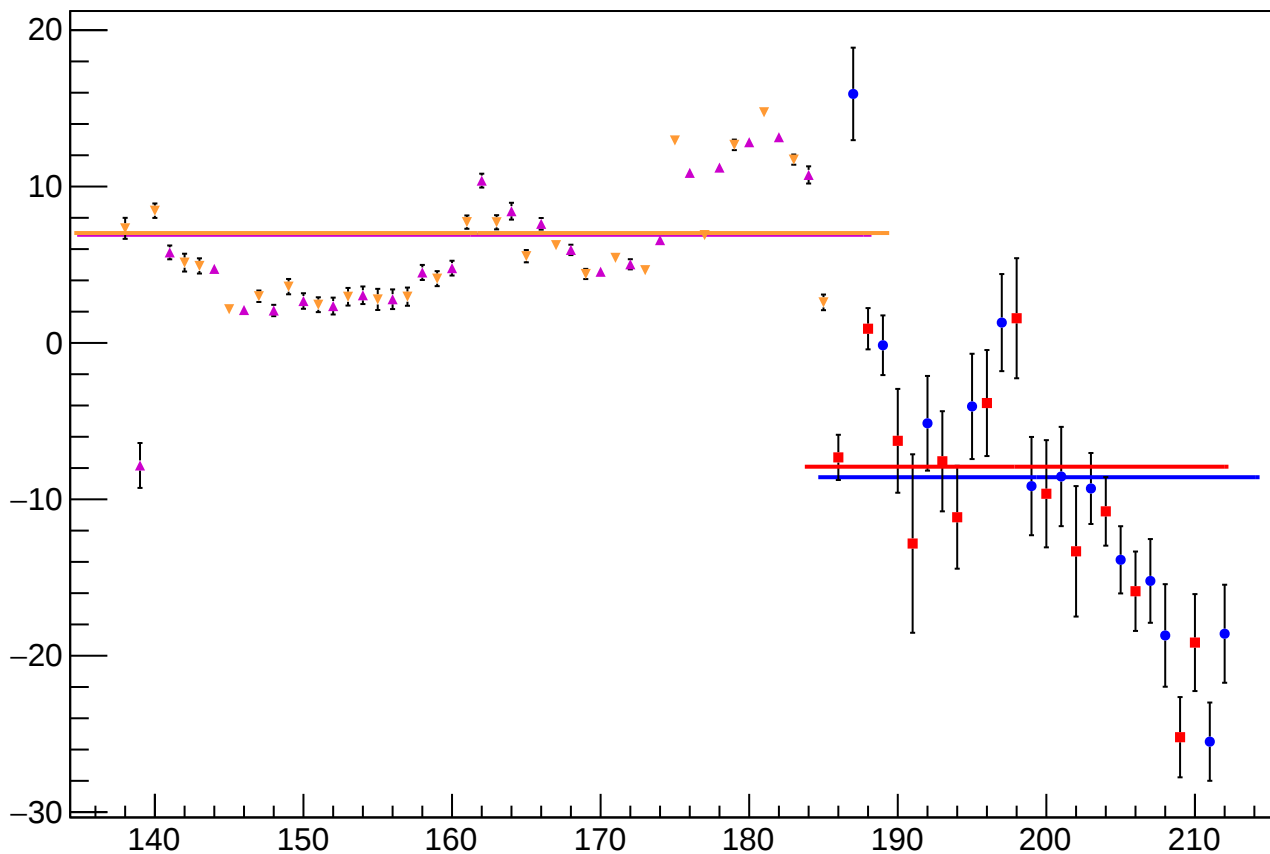
Right: -6.089 ± 0.353 $\chi^2/\text{NDF}: 5137.0/26$

In: -12.874 ± 0.094 $\chi^2/\text{NDF}: 5870.0/35$

Out: -12.667 ± 0.092 $\chi^2/\text{NDF}: 10391.9/38$

All: -12.769 ± 0.066 $\chi^2/\text{NDF}: 16264.3/74$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.586 ± 0.746 $\chi^2/\text{NDF}: 179.2/12$

Left Out: 7.028 ± 0.077 $\chi^2/\text{NDF}: 2665.3/24$

Right Out: -7.914 ± 0.662 $\chi^2/\text{NDF}: 126.5/13$

Left In: 6.914 ± 0.078 $\chi^2/\text{NDF}: 2428.2/22$

Left: 6.971 ± 0.055 $\chi^2/\text{NDF}: 5094.6/47$

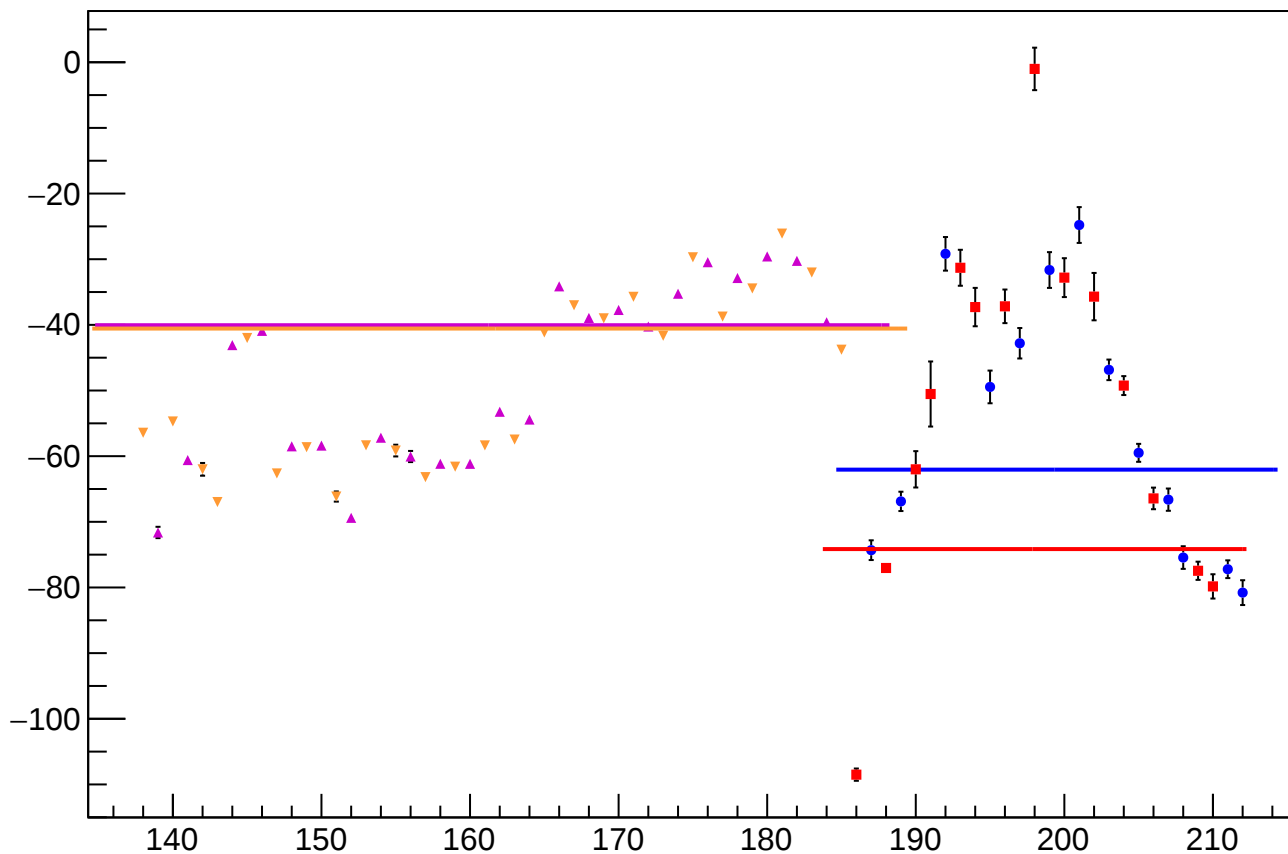
Right: -8.210 ± 0.495 $\chi^2/\text{NDF}: 306.1/26$

In: 6.748 ± 0.077 $\chi^2/\text{NDF}: 3034.2/35$

Out: 6.827 ± 0.077 $\chi^2/\text{NDF}: 3294.1/38$

All: 6.788 ± 0.054 $\chi^2/\text{NDF}: 6328.8/74$

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.051 ± 0.492 χ^2/NDF : 1037.2/12

Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24

Right Out: -74.151 ± 0.429 χ^2/NDF : 3173.2/13

Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47

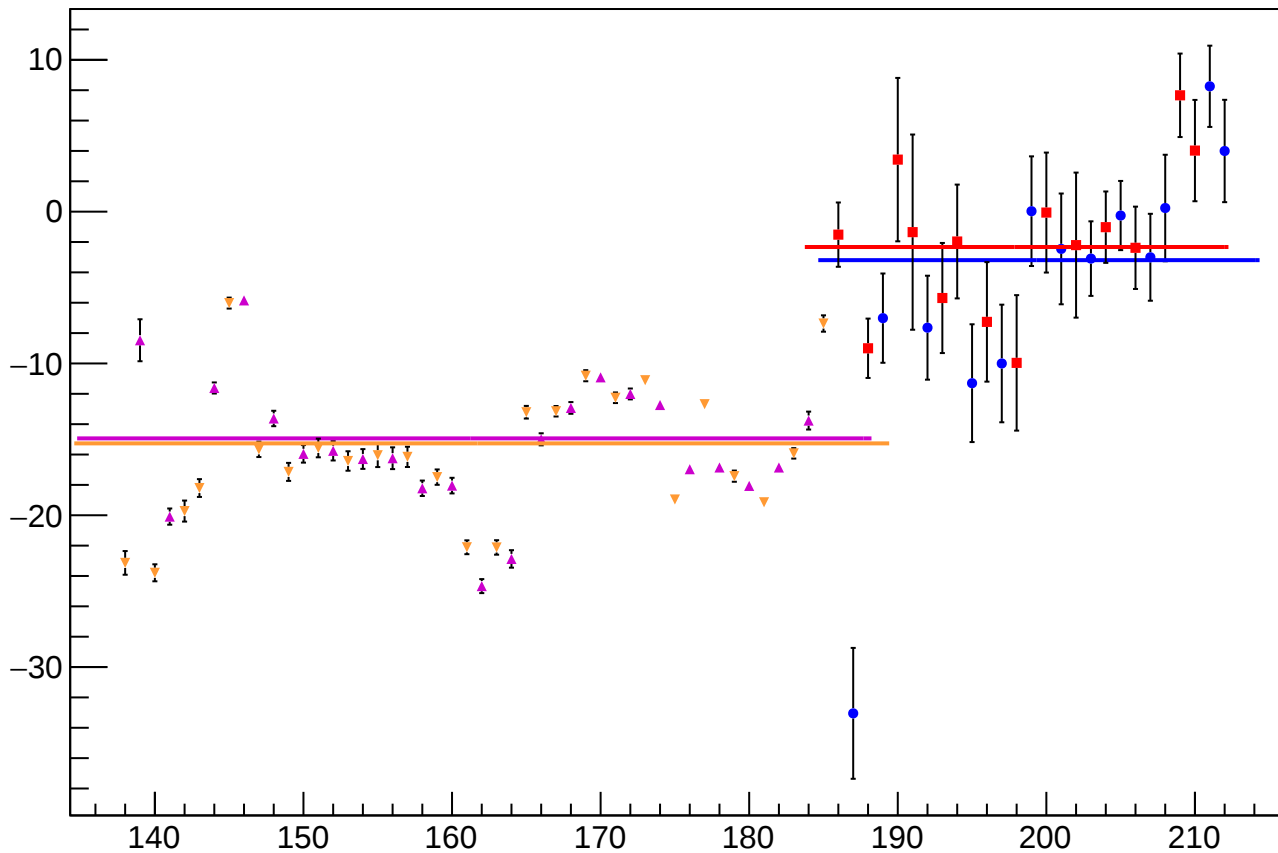
Right: -68.931 ± 0.323 χ^2/NDF : 4553.7/26

In: -40.854 ± 0.094 χ^2/NDF : 16888.3/35

Out: -42.125 ± 0.093 χ^2/NDF : 24659.3/38

All: -41.499 ± 0.066 χ^2/NDF : 41640.7/74

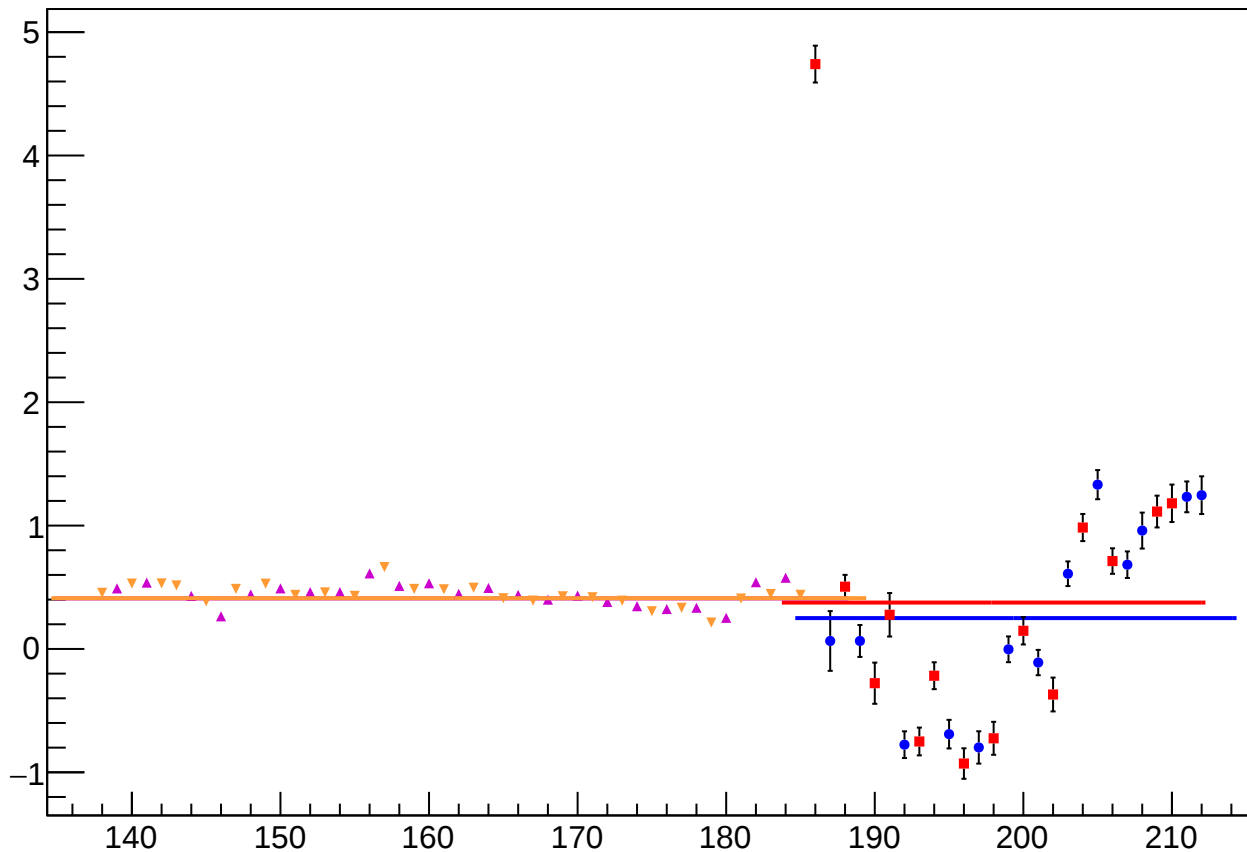
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.195 ± 0.867 $\chi^2/\text{NDF}: 85.1/12$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -2.329 ± 0.830 $\chi^2/\text{NDF}: 35.8/13$
 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: -2.743 ± 0.600 $\chi^2/\text{NDF}: 121.4/26$
 In: -14.820 ± 0.086 $\chi^2/\text{NDF}: 2466.2/35$
 Out: -15.128 ± 0.085 $\chi^2/\text{NDF}: 2871.7/38$
 All: -14.976 ± 0.061 $\chi^2/\text{NDF}: 5344.3/74$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.250 ± 0.033 χ^2/NDF : 481.4/12

Left Out: 0.411 ± 0.004 χ^2/NDF : 428.7/24

Right Out: 0.376 ± 0.033 χ^2/NDF : 1315.9/13

Left In: 0.409 ± 0.004 χ^2/NDF : 557.8/22

Left: 0.410 ± 0.003 χ^2/NDF : 986.7/47

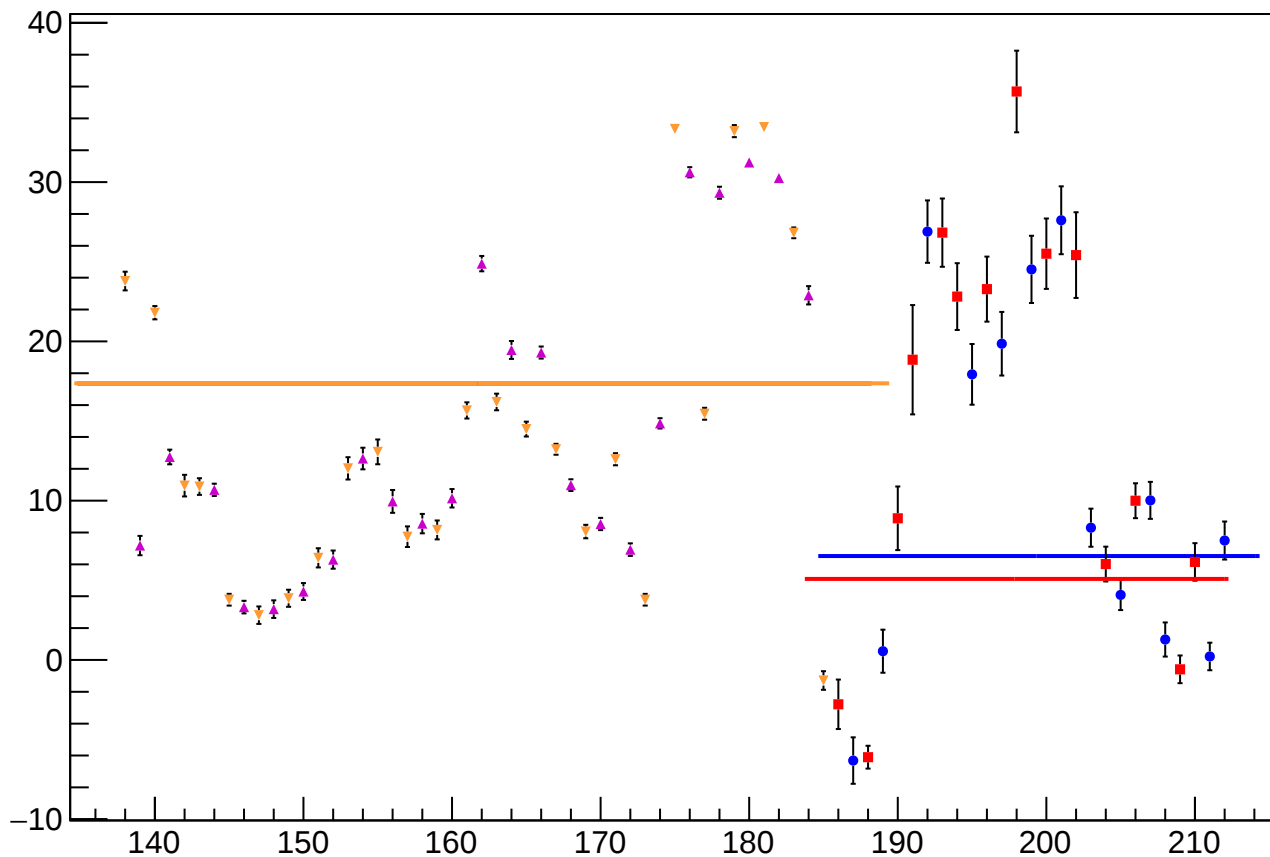
Right: 0.314 ± 0.023 χ^2/NDF : 1804.4/26

In: 0.407 ± 0.004 χ^2/NDF : 1061.6/35

Out: 0.411 ± 0.004 χ^2/NDF : 1745.7/38

All: 0.409 ± 0.003 χ^2/NDF : 2807.7/74

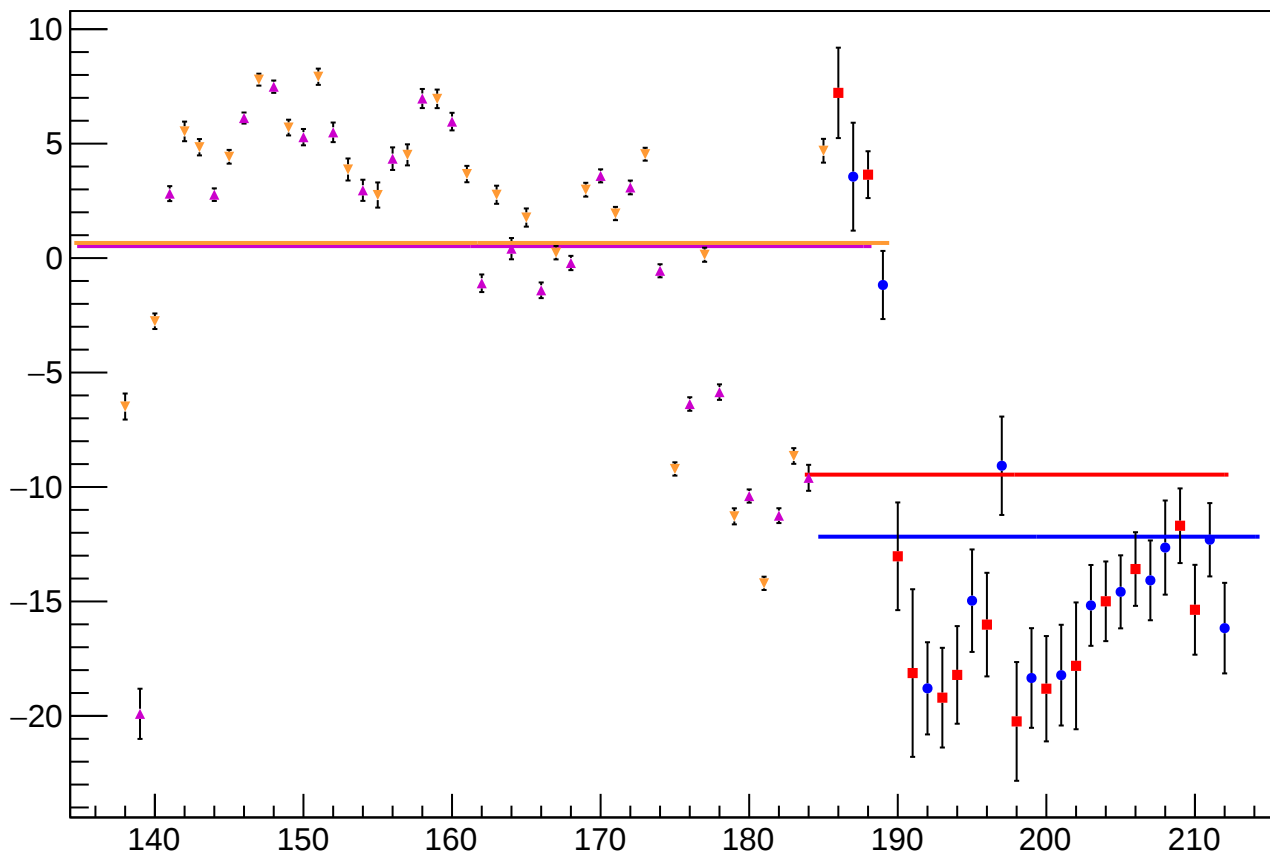
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.523+/-0.360 χ^2/NDF : 551.8/12
 Left Out: 17.367+/-0.087 χ^2/NDF :16337.6/24
 Right Out: 5.087+/-0.363 χ^2/NDF : 892.4/13
 Left In: 17.355+/-0.089 χ^2/NDF :12745.1/22

Left: 17.361+/-0.062 χ^2/NDF : 29082.8/47
 Right: 5.810+/-0.256 χ^2/NDF : 1452.0/26
 In: 16.734+/-0.086 χ^2/NDF :14148.9/35
 Out: 16.699+/-0.085 χ^2/NDF :18312.5/38
 All: 16.716+/-0.060 χ^2/NDF : 32461.4/74

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.171 ± 0.524 χ^2/NDF : 139.7/12

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -9.460 ± 0.505 χ^2/NDF : 359.1/13

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

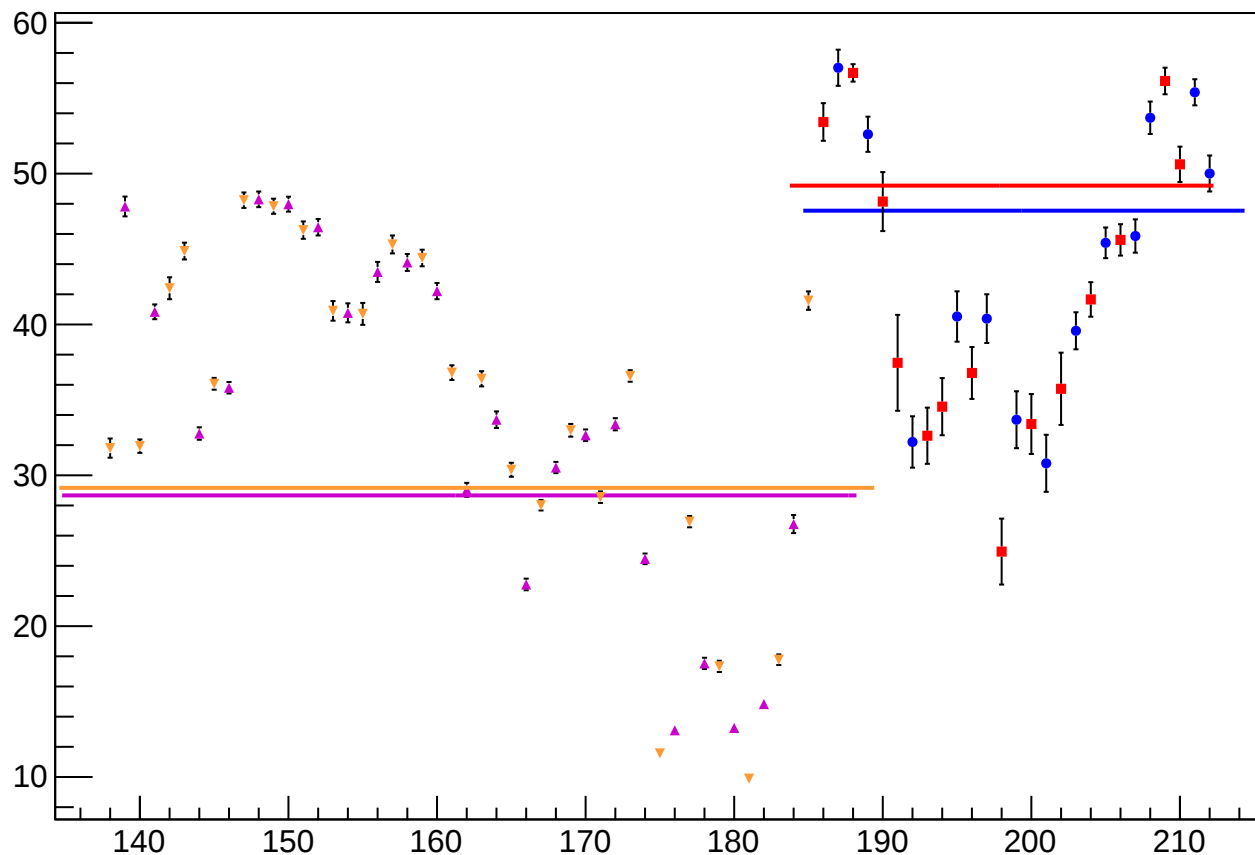
Right: -10.766 ± 0.364 χ^2/NDF : 512.6/26

In: 0.297 ± 0.070 χ^2/NDF : 7444.9/35

Out: 0.474 ± 0.069 χ^2/NDF : 9306.4/38

All: 0.387 ± 0.049 χ^2/NDF : 16754.6/74

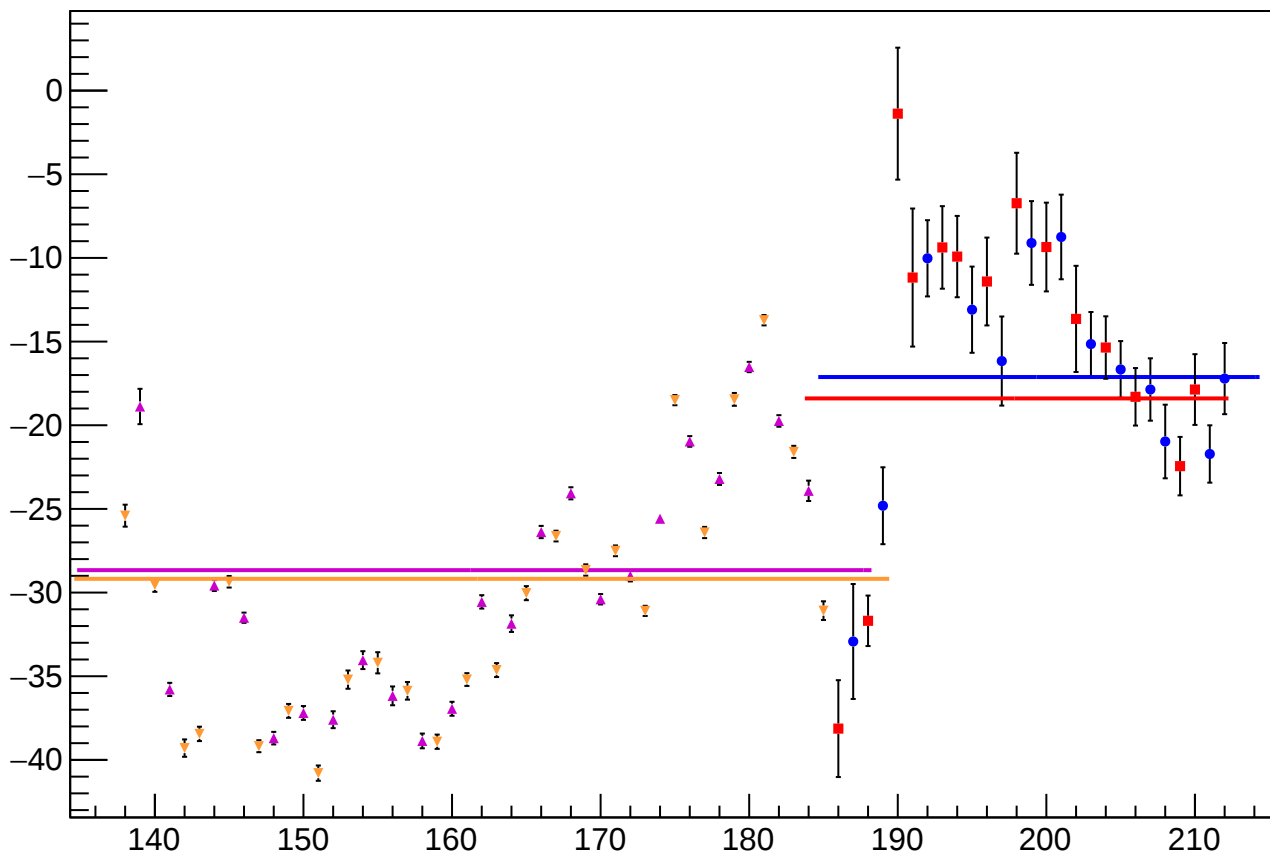
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 47.543 $\pm$ 0.344 χ^2 /NDF: 500.0/12
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 49.204 $\pm$ 0.329 χ^2 /NDF: 720.3/13
 Left In: 28.667 $\pm$ 0.089 χ^2 /NDF:16847.2/22

Left: 28.923 $\pm$ 0.063 χ^2 /NDF: 35838.1/47
 Right: 48.411 $\pm$ 0.238 χ^2 /NDF: 1232.5/26
 In: 29.852 $\pm$ 0.086 χ^2 /NDF:20162.2/35
 Out: 30.501 $\pm$ 0.085 χ^2 /NDF:23153.7/38
 All: 30.182 $\pm$ 0.060 χ^2 /NDF: 43344.7/74

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -17.118 ± 0.603 $\chi^2/\text{NDF}: 77.4/12$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -18.397 ± 0.610 $\chi^2/\text{NDF}: 215.3/13$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$

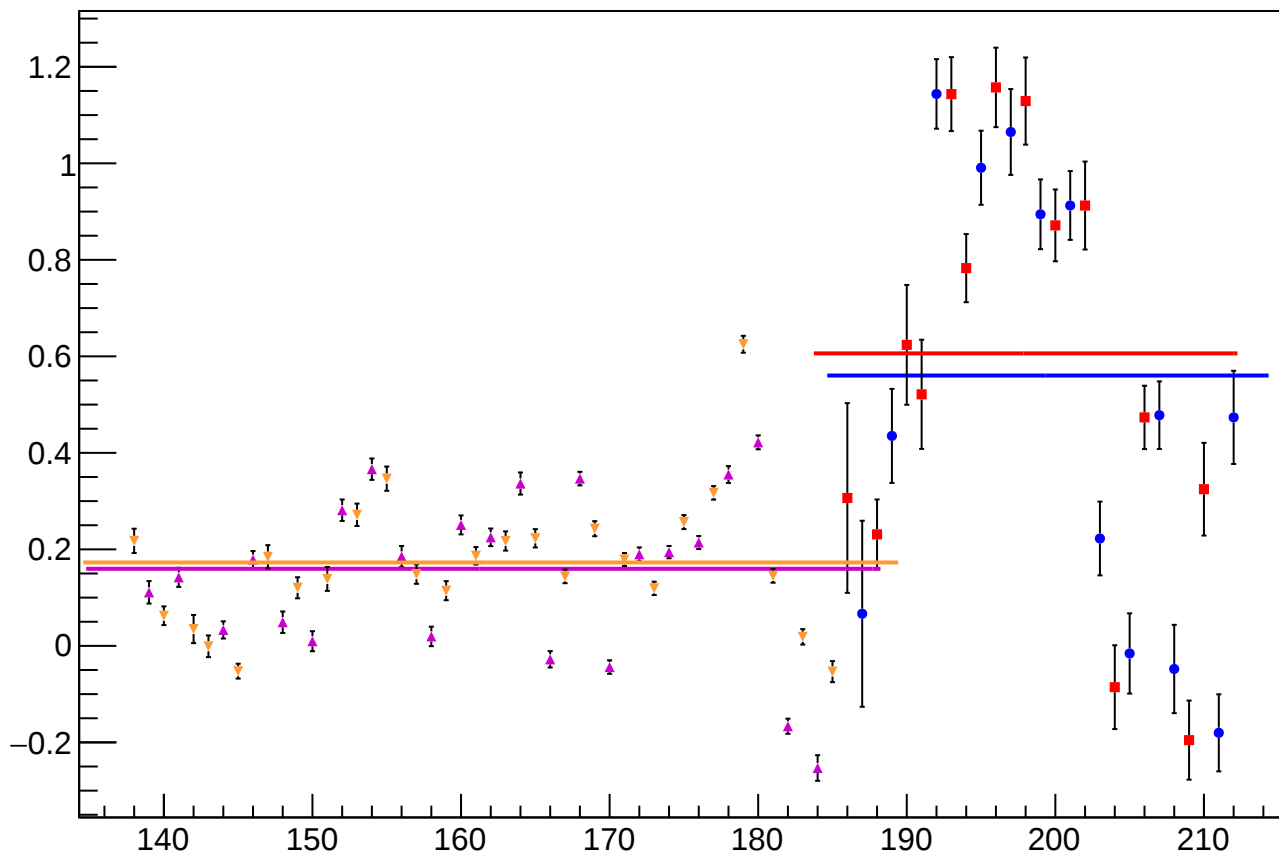
Right: -17.750 ± 0.429 $\chi^2/\text{NDF}: 294.9/26$

In: -28.461 ± 0.079 $\chi^2/\text{NDF}: 7107.8/35$

Out: -29.004 ± 0.078 $\chi^2/\text{NDF}: 9604.2/38$

All: -28.738 ± 0.055 $\chi^2/\text{NDF}: 16736.0/74$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.560 $\pm$ 0.023 χ^2 /NDF: 383.0/12

Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.5/24

Right Out: 0.606 $\pm$ 0.023 χ^2 /NDF: 359.4/13

Left In: 0.160 $\pm$ 0.004 χ^2 /NDF:2057.9/22

Left: 0.166 $\pm$ 0.003 χ^2 /NDF: 3542.9/47

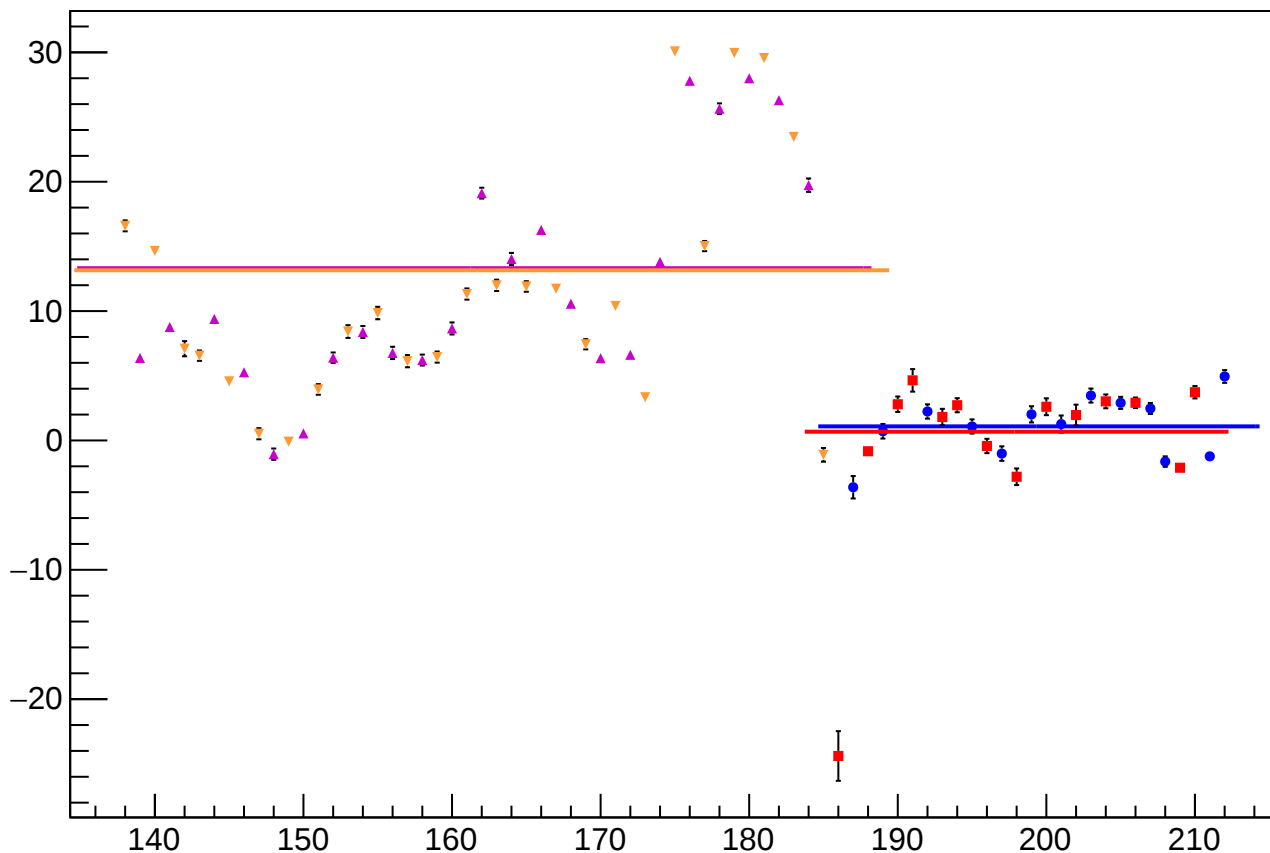
Right: 0.583 $\pm$ 0.016 χ^2 /NDF: 744.3/26

In: 0.170 $\pm$ 0.004 χ^2 /NDF:2739.9/35

Out: 0.183 $\pm$ 0.004 χ^2 /NDF:2190.3/38

All: 0.177 $\pm$ 0.003 χ^2 /NDF: 4937.5/74

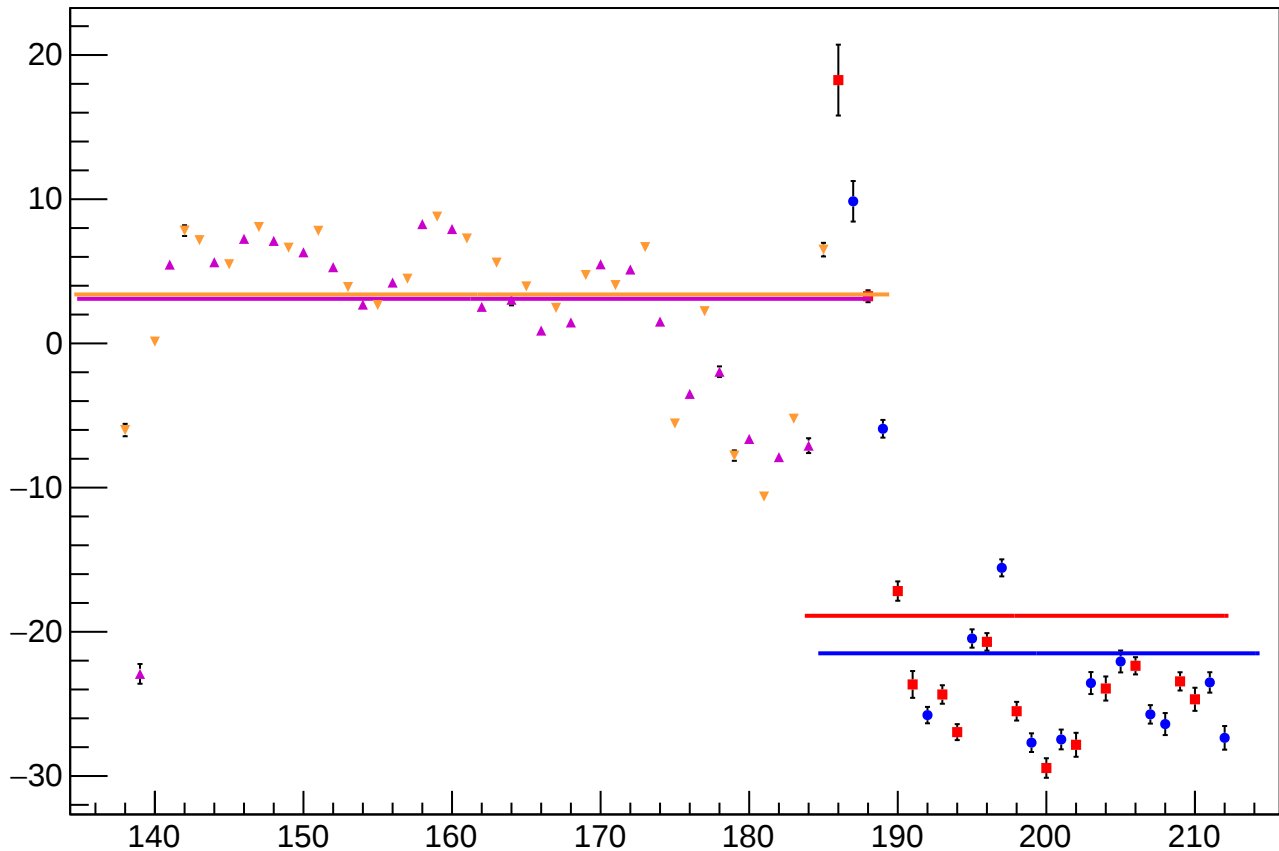
reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.087 $\pm$ 0.142 χ^2 /NDF: 238.5/12
 Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24
 Right Out: 0.675 $\pm$ 0.135 χ^2 /NDF: 452.4/13
 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: 0.870 $\pm$ 0.098 χ^2 /NDF: 695.2/26
 In: 10.533 $\pm$ 0.068 χ^2 /NDF:19938.9/35
 Out: 10.191 $\pm$ 0.066 χ^2 /NDF:24063.5/38
 All: 10.357 $\pm$ 0.047 χ^2 /NDF: 44015.5/74

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -21.492 ± 0.192 $\chi^2/\text{NDF}: 1620.0/12$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -18.888 ± 0.177 $\chi^2/\text{NDF}: 4051.2/13$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

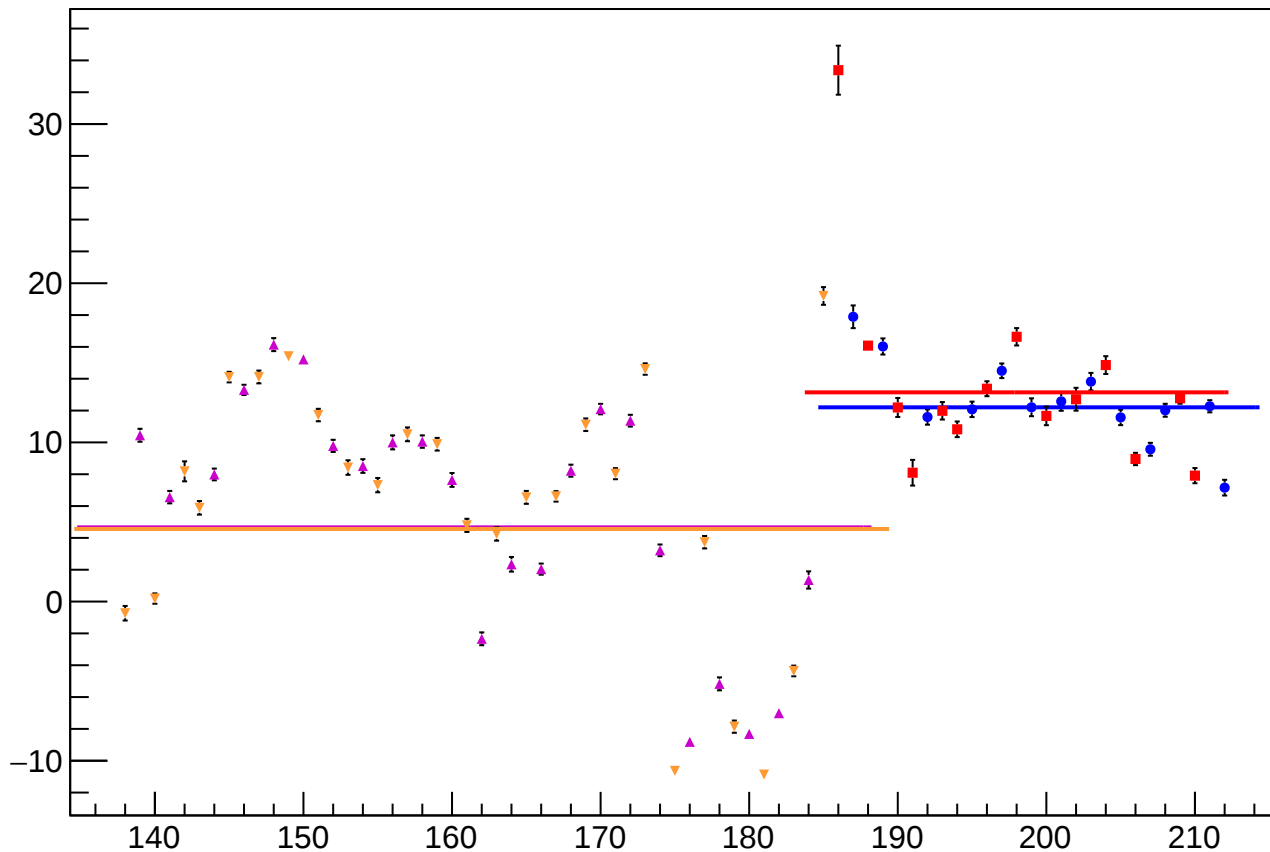
Right: -20.083 ± 0.130 $\chi^2/\text{NDF}: 5770.9/26$

In: 0.862 ± 0.058 $\chi^2/\text{NDF}: 23667.6/35$

Out: 1.200 ± 0.055 $\chi^2/\text{NDF}: 26508.4/38$

All: 1.038 ± 0.040 $\chi^2/\text{NDF}: 50193.8/74$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 12.204 $\pm$ 0.134 χ^2 /NDF: 305.0/12

Left Out: 4.561 $\pm$ 0.075 χ^2 /NDF:13592.1/24

Right Out: 13.145 $\pm$ 0.122 χ^2 /NDF: 700.7/13

Left In: 4.662 $\pm$ 0.077 χ^2 /NDF:11281.5/22

Left: 4.610 $\pm$ 0.054 χ^2 /NDF: 24874.4/47

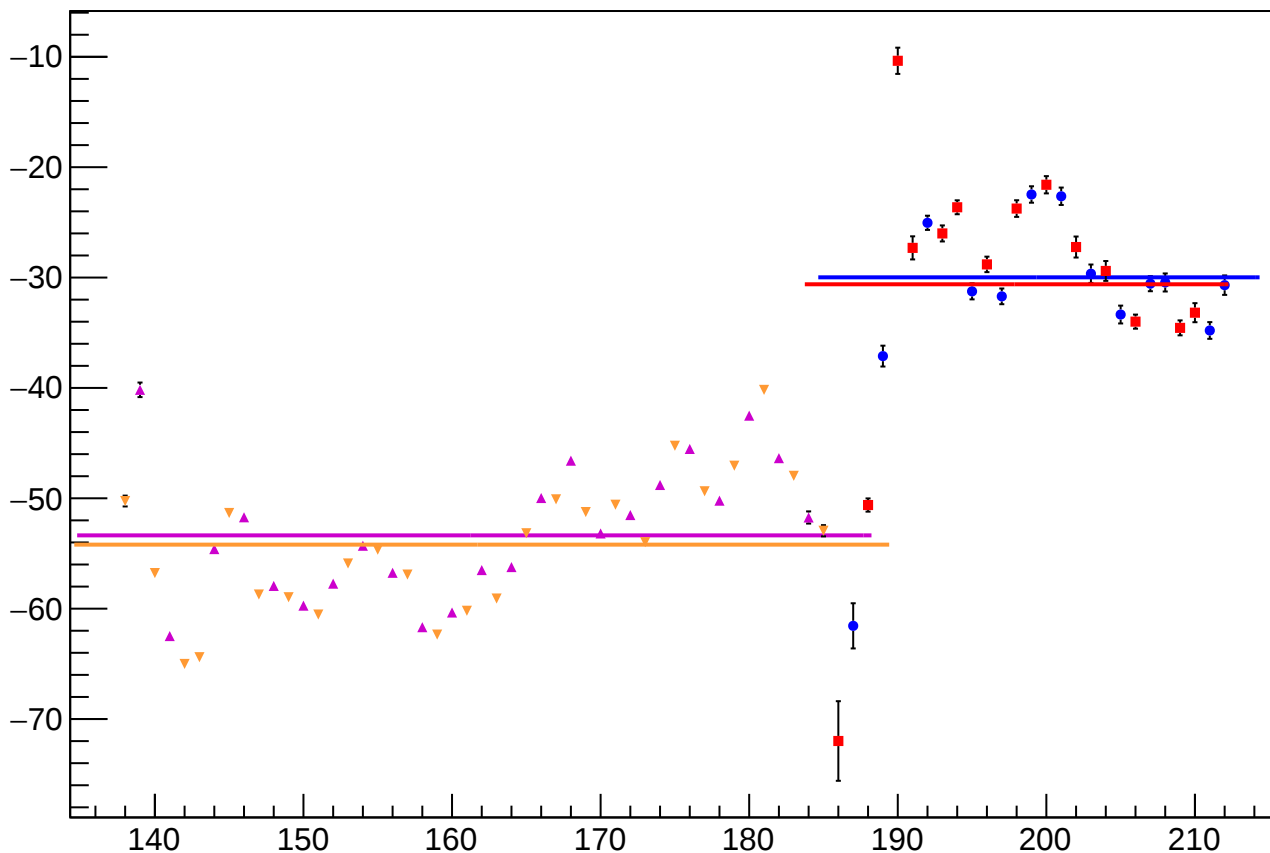
Right: 12.716 $\pm$ 0.090 χ^2 /NDF: 1032.6/26

In: 6.530 $\pm$ 0.067 χ^2 /NDF:13974.3/35

Out: 6.924 $\pm$ 0.064 χ^2 /NDF:17862.4/38

All: 6.734 $\pm$ 0.046 χ^2 /NDF: 31854.8/74

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -29.979 ± 0.220 $\chi^2/\text{NDF}: 610.9/12$

Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$

Right Out: -30.609 ± 0.210 $\chi^2/\text{NDF}: 2017.1/13$

Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

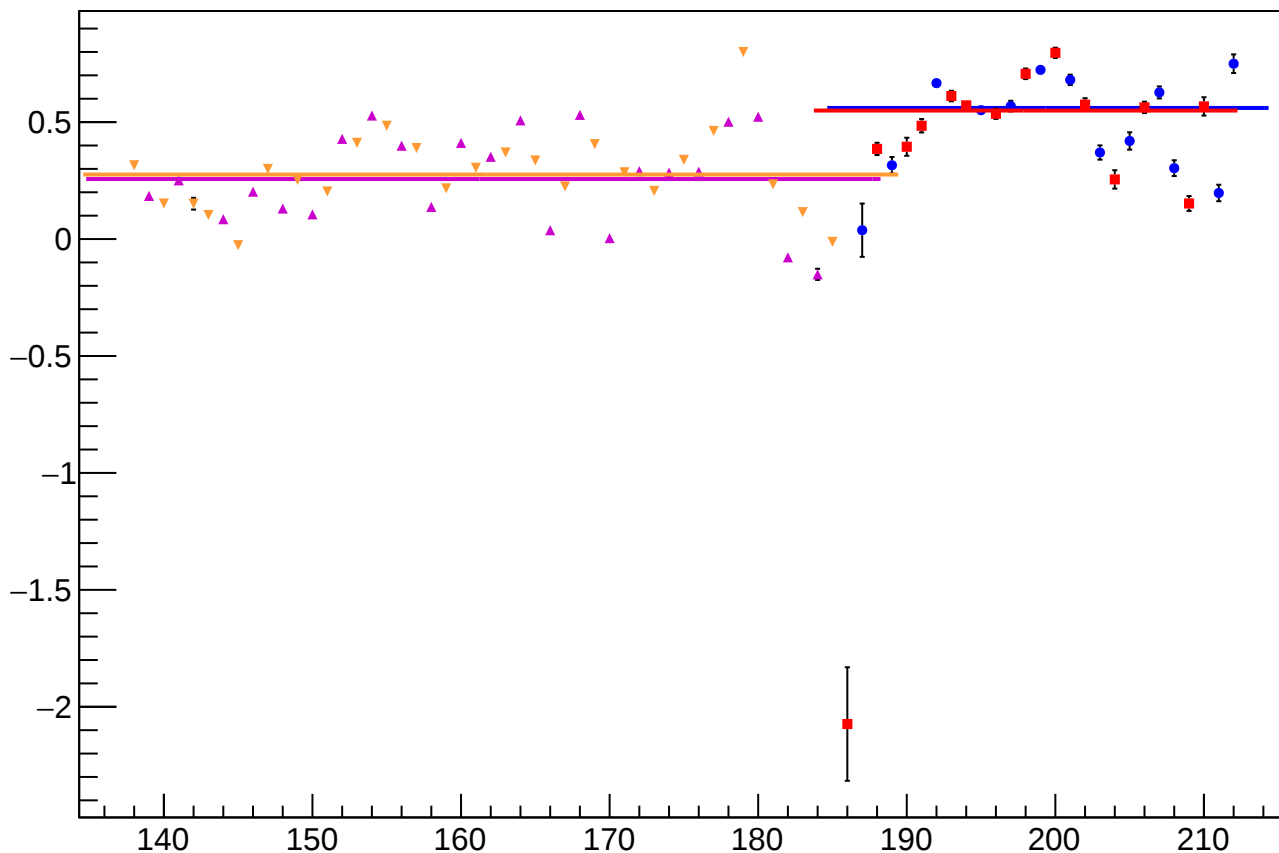
Right: -30.308 ± 0.152 $\chi^2/\text{NDF}: 2632.3/26$

In: -51.292 ± 0.065 $\chi^2/\text{NDF}: 17797.8/35$

Out: -52.060 ± 0.063 $\chi^2/\text{NDF}: 21921.6/38$

All: -51.688 ± 0.045 $\chi^2/\text{NDF}: 39790.5/74$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.561 ± 0.008 χ^2/NDF : 430.5/12

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.550 ± 0.007 χ^2/NDF : 574.9/13

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

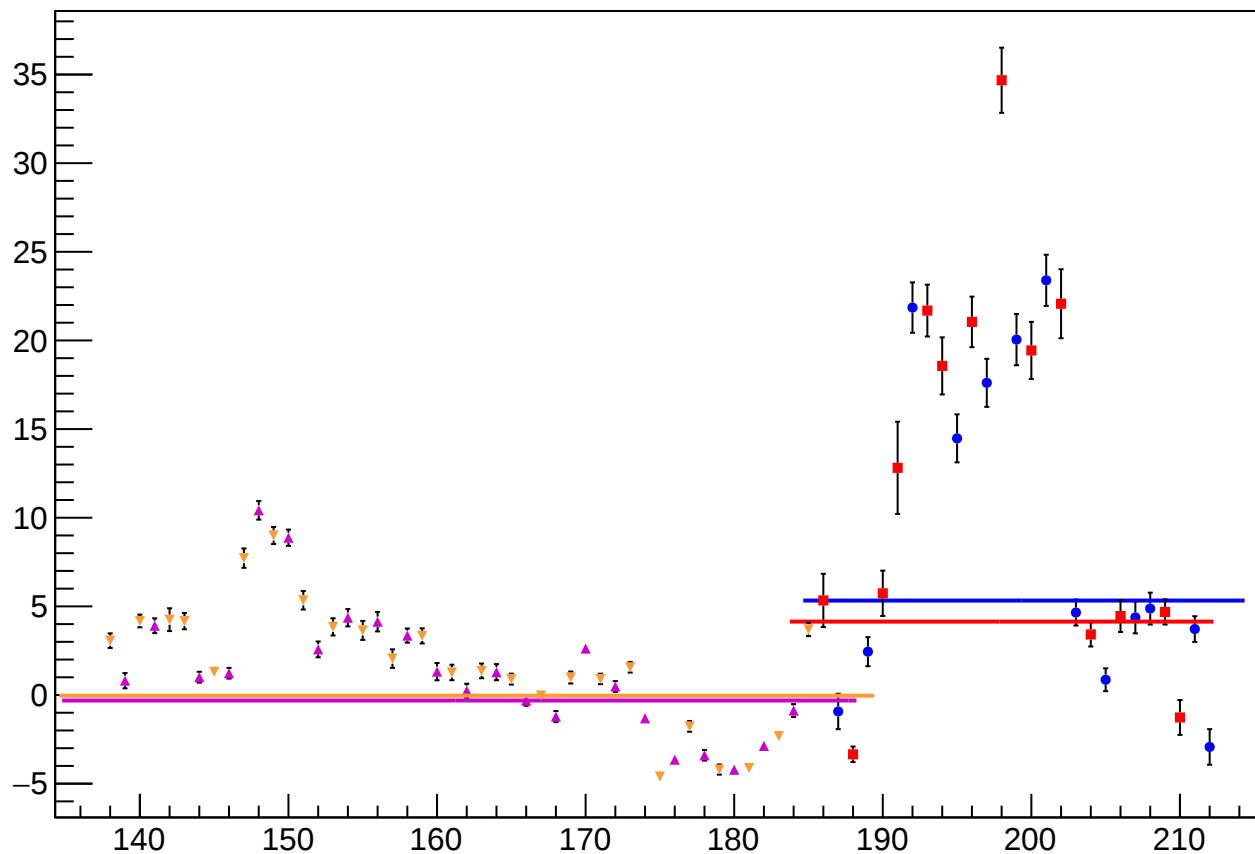
Right: 0.555 ± 0.005 χ^2/NDF : 1006.5/26

In: 0.300 ± 0.003 χ^2/NDF : 5416.4/35

Out: 0.318 ± 0.003 χ^2/NDF : 4444.5/38

All: 0.309 ± 0.002 χ^2/NDF : 9882.0/74

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.327 ± 0.261 $\chi^2/\text{NDF}: 698.0/12$

Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$

Right Out: 4.141 ± 0.257 $\chi^2/\text{NDF}: 1152.3/13$

Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$

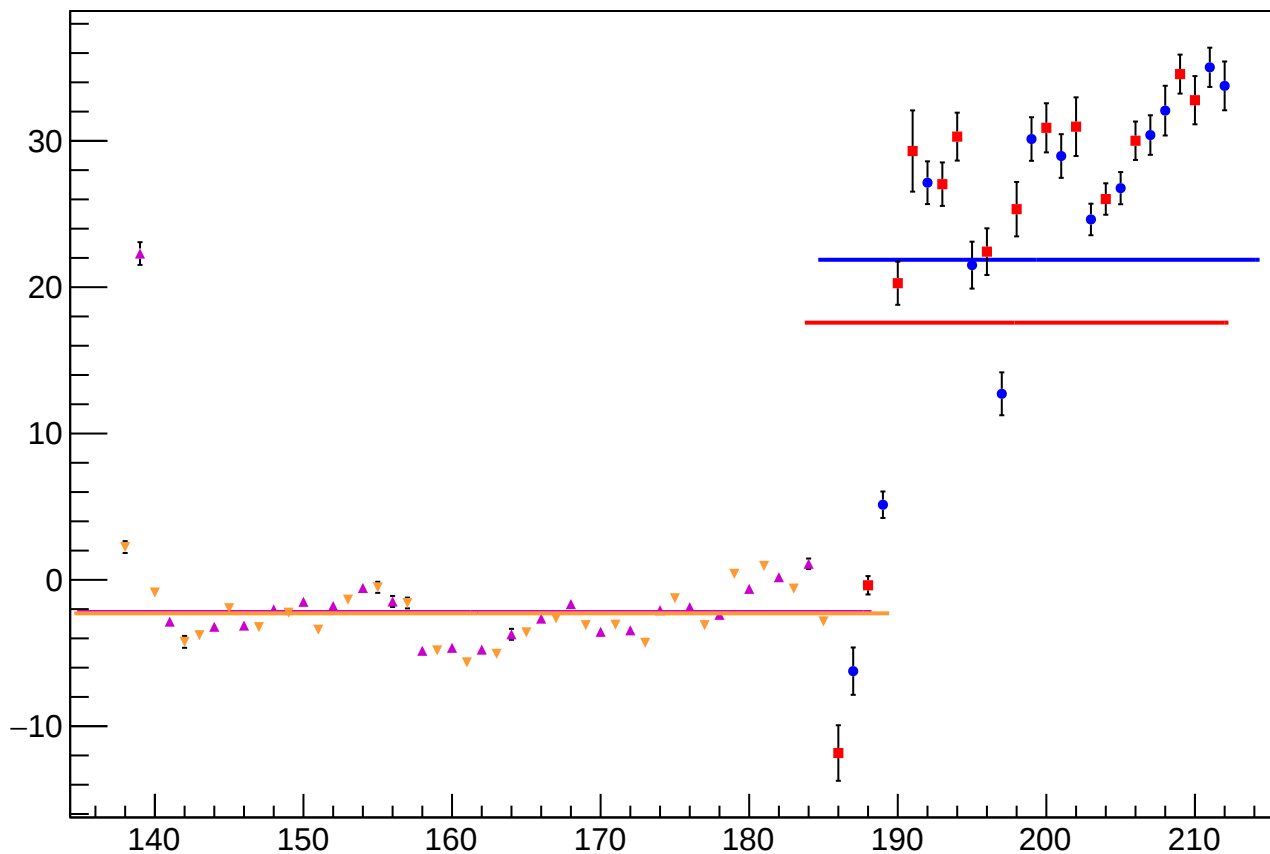
Right: 4.726 ± 0.183 $\chi^2/\text{NDF}: 1860.7/26$

In: 0.042 ± 0.065 $\chi^2/\text{NDF}: 3386.1/35$

Out: 0.221 ± 0.064 $\chi^2/\text{NDF}: 4037.1/38$

All: 0.133 ± 0.046 $\chi^2/\text{NDF}: 7427.0/74$

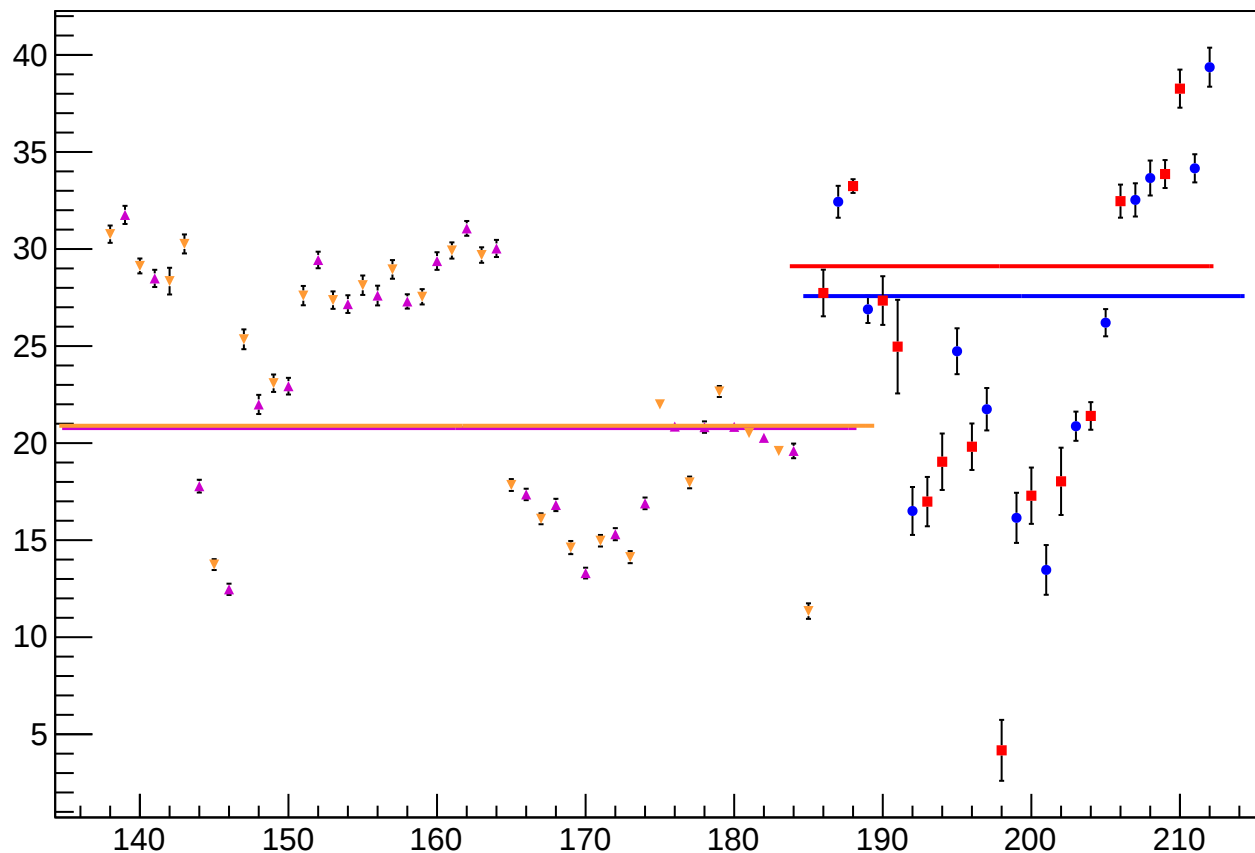
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 21.874 ± 0.370 $\chi^2/\text{NDF}: 998.4/12$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: 17.577 ± 0.356 $\chi^2/\text{NDF}: 1712.8/13$
 Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$
 Right: 19.645 ± 0.256 $\chi^2/\text{NDF}: 2781.3/26$
 In: -1.674 ± 0.054 $\chi^2/\text{NDF}: 6823.1/35$
 Out: -1.839 ± 0.054 $\chi^2/\text{NDF}: 5894.7/38$
 All: -1.758 ± 0.038 $\chi^2/\text{NDF}: 12722.5/74$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.575 ± 0.248 χ^2/NDF : 732.4/12

Left Out: 20.894 ± 0.067 χ^2/NDF : 6655.4/24

Right Out: 29.114 ± 0.231 χ^2/NDF : 965.2/13

Left In: 20.774 ± 0.068 χ^2/NDF : 5927.9/22

Left: 20.835 ± 0.047 χ^2/NDF : 12584.8/47

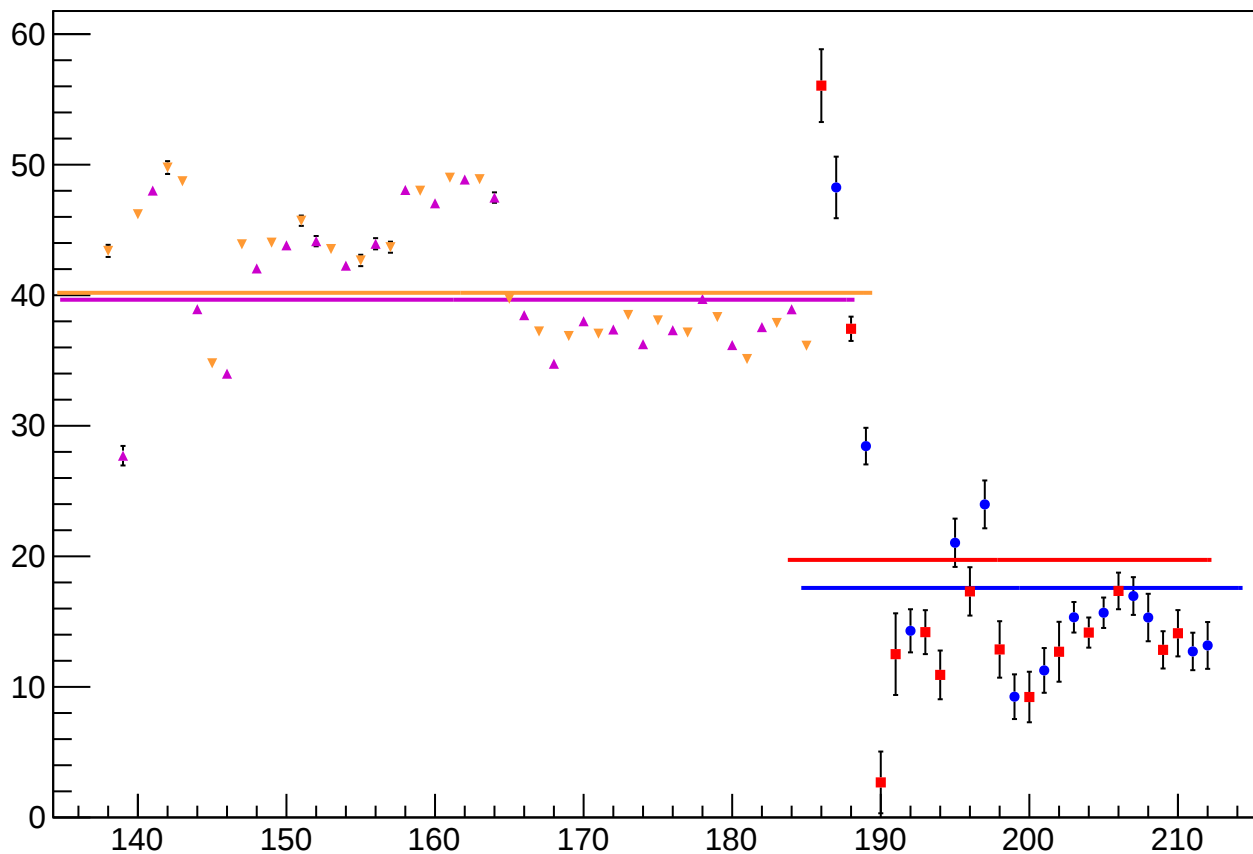
Right: 28.402 ± 0.169 χ^2/NDF : 1718.2/26

In: 21.242 ± 0.065 χ^2/NDF : 7357.8/35

Out: 21.529 ± 0.064 χ^2/NDF : 8793.0/38

All: 21.388 ± 0.046 χ^2/NDF : 16160.7/74

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 17.580 ± 0.431 χ^2/NDF : 311.8/12

Left Out: 40.186 ± 0.060 χ^2/NDF : 5932.7/24

Right Out: 19.728 ± 0.437 χ^2/NDF : 732.4/13

Left In: 39.655 ± 0.061 χ^2/NDF : 5298.6/22

Left: 39.925 ± 0.043 χ^2/NDF : 11269.2/47

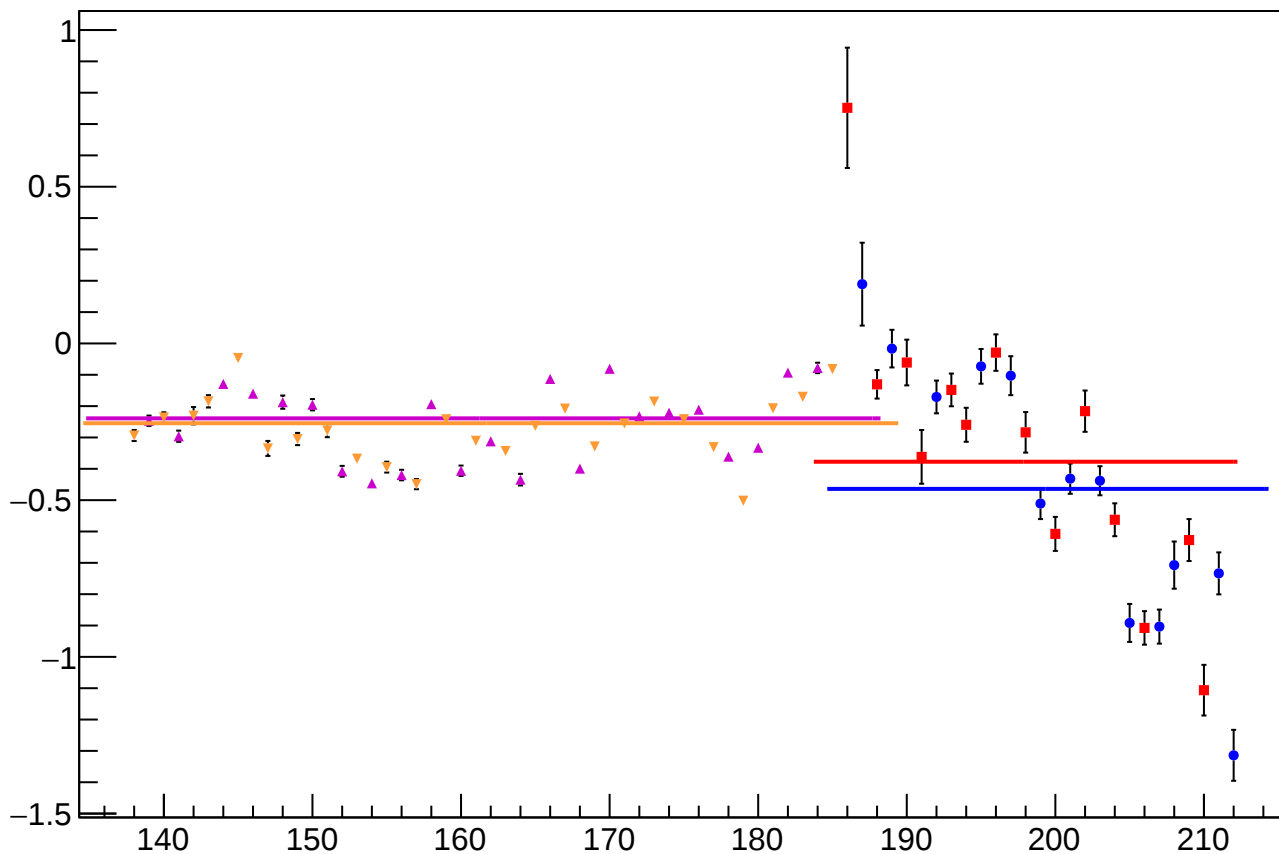
Right: 18.640 ± 0.307 χ^2/NDF : 1056.4/26

In: 39.216 ± 0.061 χ^2/NDF : 8175.8/35

Out: 39.803 ± 0.060 χ^2/NDF : 8815.2/38

All: 39.514 ± 0.043 χ^2/NDF : 17038.2/74

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.464 ± 0.016 χ^2/NDF : 448.0/12

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.377 ± 0.016 χ^2/NDF : 374.8/13

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

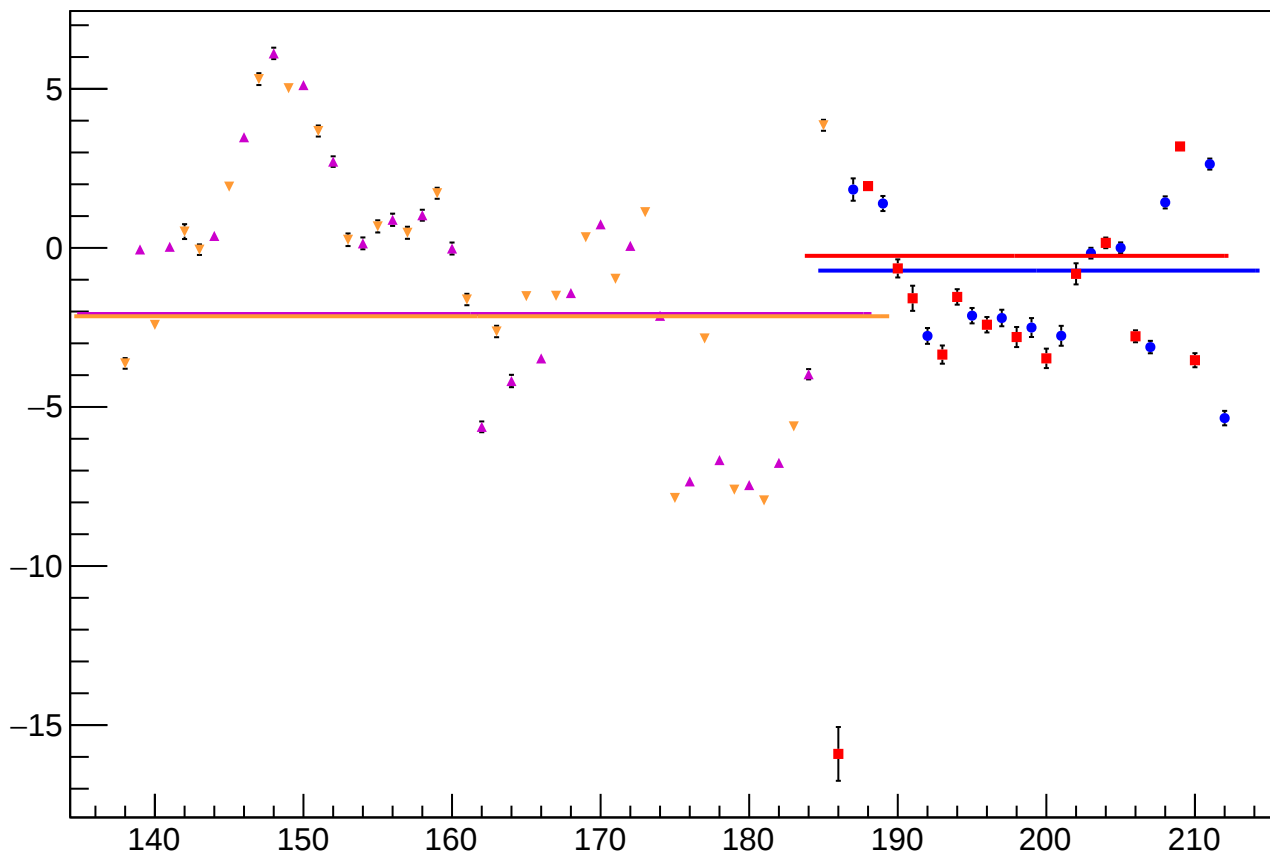
Right: -0.421 ± 0.012 χ^2/NDF : 836.9/26

In: -0.245 ± 0.003 χ^2/NDF : 2383.1/35

Out: -0.258 ± 0.003 χ^2/NDF : 1850.1/38

All: -0.252 ± 0.002 χ^2/NDF : 4243.7/74

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

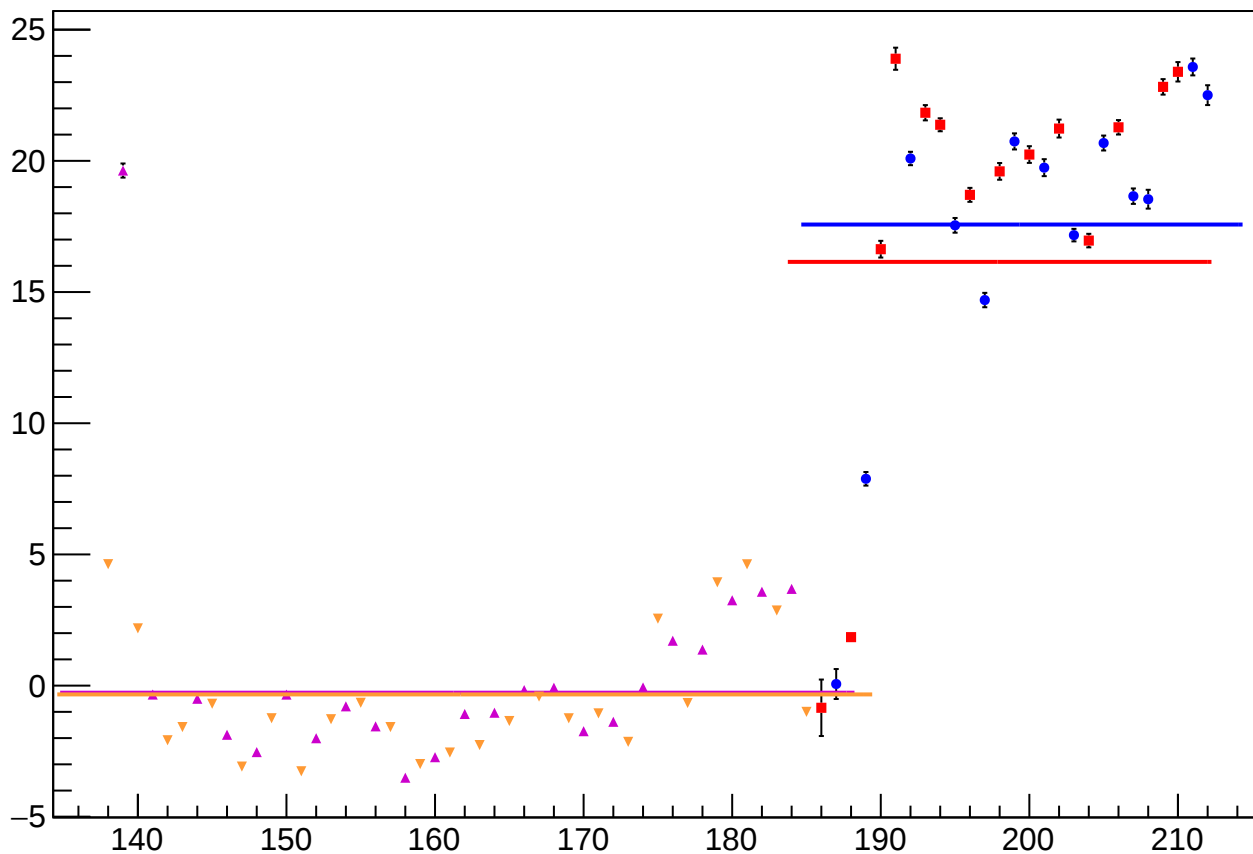


Right In: -0.713 ± 0.061 χ^2/NDF : 1440.0/12
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.249 ± 0.057 χ^2/NDF : 2042.4/13
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.468 ± 0.042 χ^2/NDF : 3513.2/26
 In: -1.865 ± 0.024 χ^2/NDF : 25113.2/35
 Out: -1.833 ± 0.023 χ^2/NDF : 27492.0/38

All: -1.849 ± 0.017 χ^2/NDF : 52606.1/74

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.573 ± 0.083 χ^2/NDF : 3360.3/12

Left Out: -0.335 ± 0.021 χ^2/NDF : 12596.1/24

Right Out: 16.150 ± 0.076 χ^2/NDF : 11113.0/13

Left In: -0.269 ± 0.021 χ^2/NDF : 13323.1/22

Left: -0.303 ± 0.015 χ^2/NDF : 25924.2/47

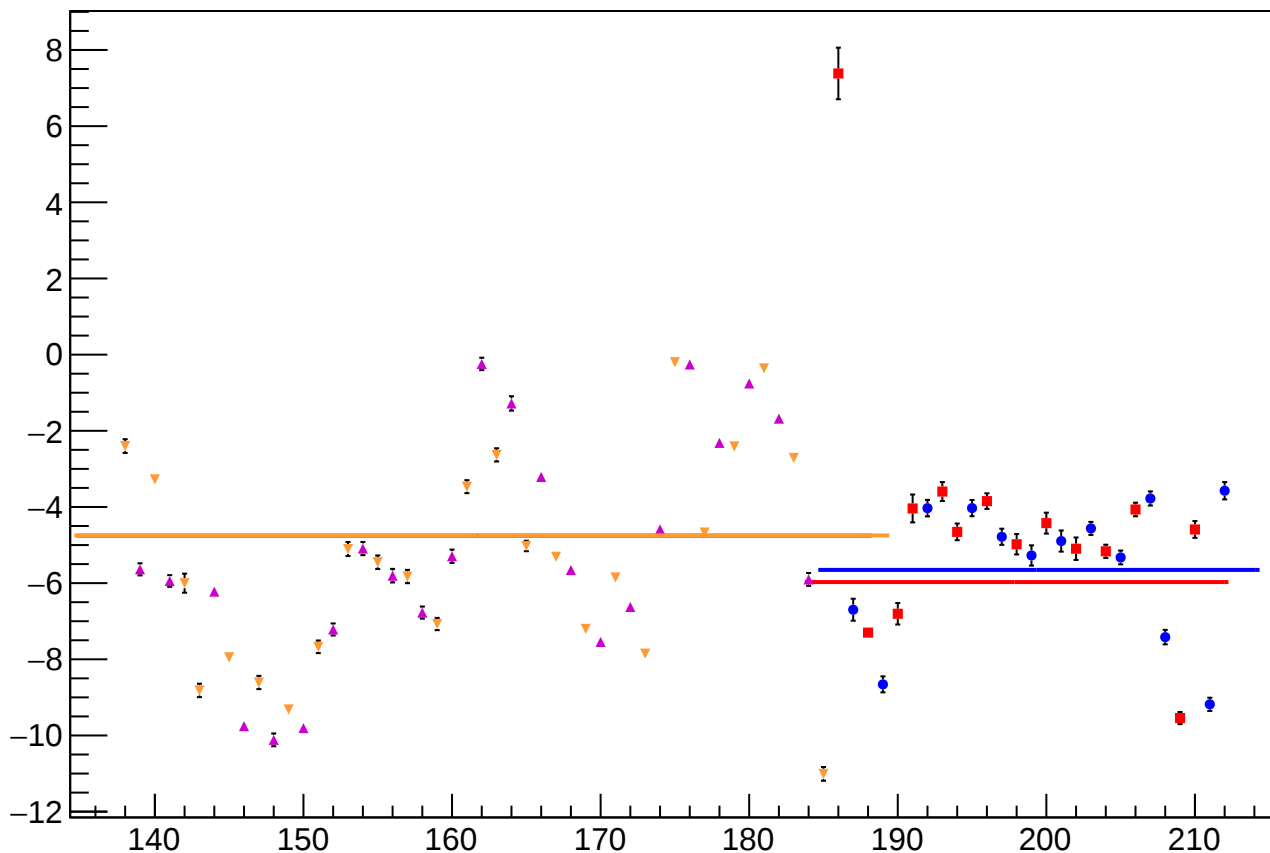
Right: 16.801 ± 0.056 χ^2/NDF : 14633.0/26

In: 0.800 ± 0.020 χ^2/NDF : 60164.4/35

Out: 0.786 ± 0.020 χ^2/NDF : 67325.0/38

All: 0.793 ± 0.014 χ^2/NDF : 127489.6/74

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



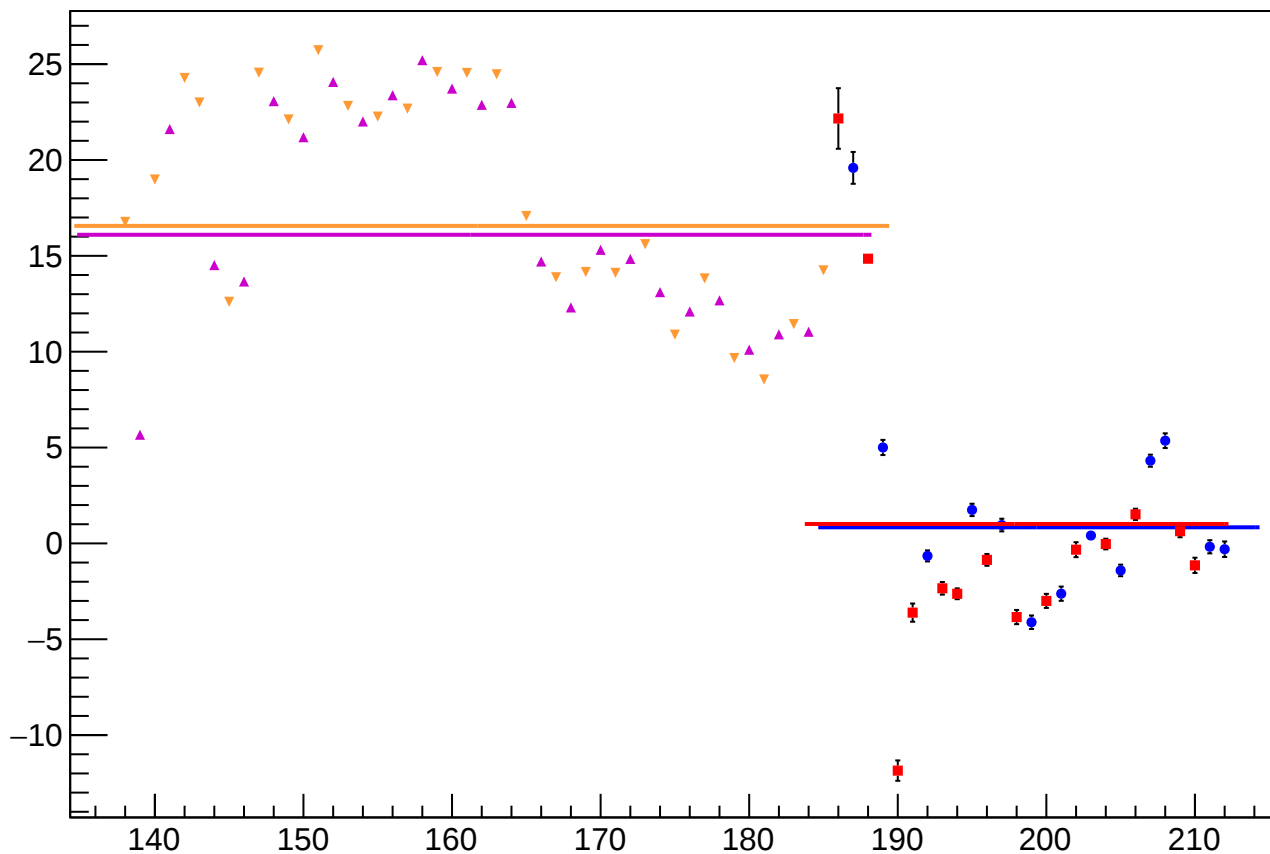
Right In: -5.652+/-0.058 χ^2/NDF : 1083.5/12
 Left Out: -4.748+/-0.026 χ^2/NDF :13289.8/24
 Right Out: -5.972+/-0.052 χ^2/NDF : 1611.1/13
 Left In: -4.753+/-0.026 χ^2/NDF :14119.2/22

Left: -4.751+/-0.018 χ^2/NDF : 27409.0/47
 Right: -5.829+/-0.039 χ^2/NDF : 2711.5/26

In: -4.906+/-0.024 χ^2/NDF :15404.0/35
 Out: -4.991+/-0.023 χ^2/NDF :15347.1/38

All: -4.950+/-0.017 χ^2/NDF : 30757.7/74

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.839 ± 0.095 $\chi^2/\text{NDF}: 1273.0/12$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 1.013 ± 0.091 $\chi^2/\text{NDF}: 5016.6/13$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

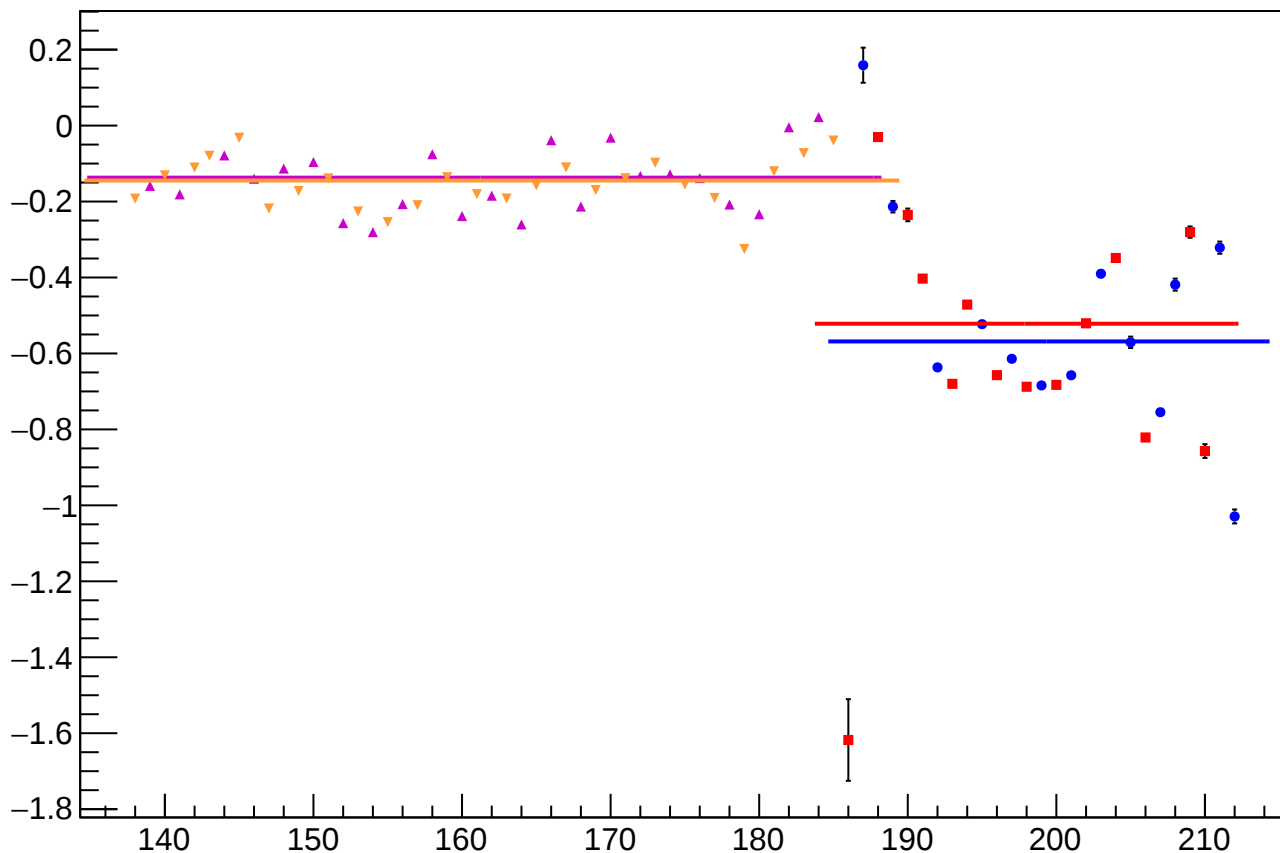
Right: 0.930 ± 0.066 $\chi^2/\text{NDF}: 6291.3/26$

In: 15.213 ± 0.023 $\chi^2/\text{NDF}: 67952.0/35$

Out: 15.617 ± 0.022 $\chi^2/\text{NDF}: 86333.6/38$

All: 15.419 ± 0.016 $\chi^2/\text{NDF}: 154444.3/74$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.568 ± 0.003 χ^2/NDF : 2638.4/12

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.522 ± 0.003 χ^2/NDF : 5178.7/13

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

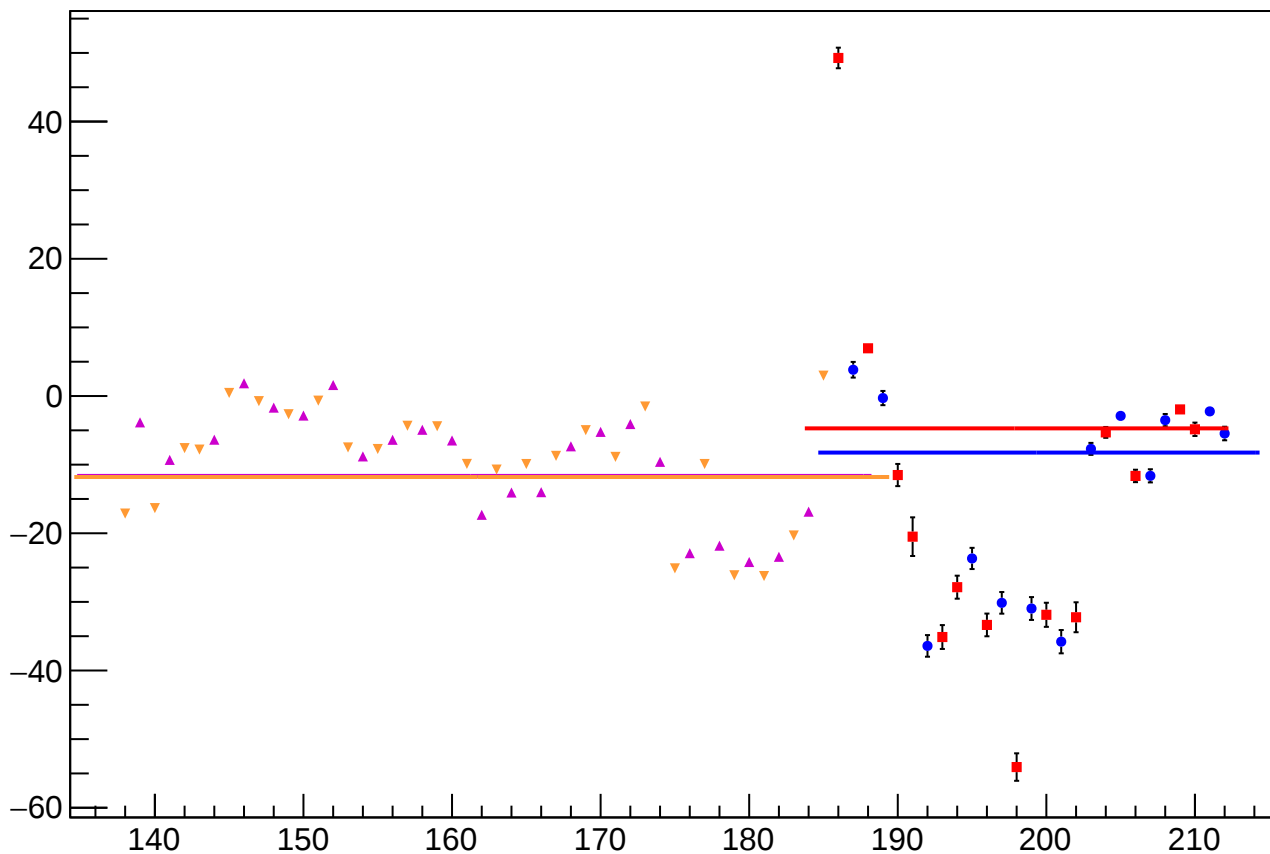
Right: -0.543 ± 0.002 χ^2/NDF : 7920.2/26

In: -0.177 ± 0.001 χ^2/NDF : 22987.3/35

Out: -0.183 ± 0.001 χ^2/NDF : 21958.8/38

All: -0.180 ± 0.001 χ^2/NDF : 44964.3/74

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.241 ± 0.287 χ^2/NDF : 1405.7/12
 Left Out: -11.801 ± 0.070 χ^2/NDF : 17308.2/24
 Right Out: -4.714 ± 0.288 χ^2/NDF : 3692.7/13
 Left In: -11.642 ± 0.072 χ^2/NDF : 14121.2/22

Left: -11.723 ± 0.050 χ^2/NDF : 31432.0/47

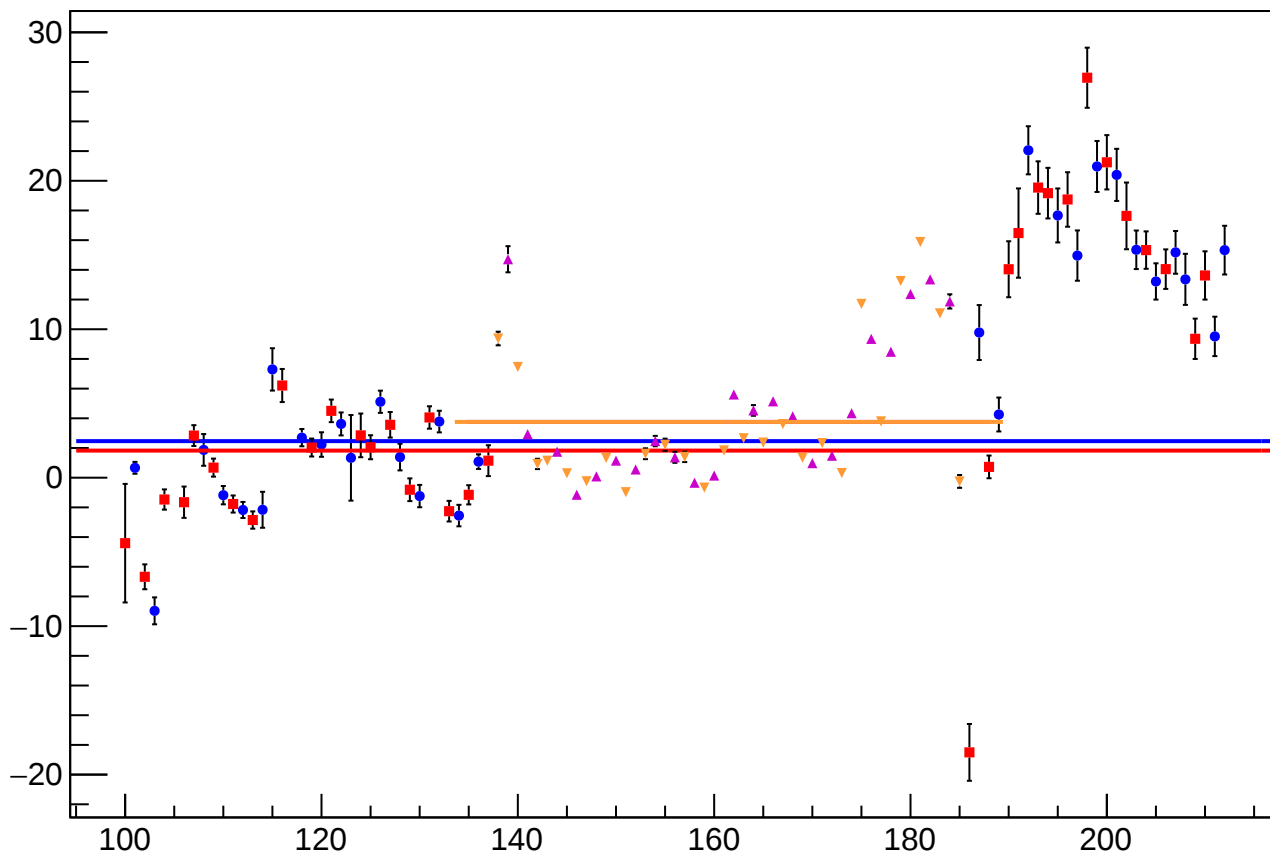
Right: -6.487 ± 0.203 χ^2/NDF : 5173.7/26

In: -11.442 ± 0.069 χ^2/NDF : 15659.3/35

Out: -11.404 ± 0.068 χ^2/NDF : 21571.4/38

All: -11.423 ± 0.049 χ^2/NDF : 37230.9/74

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.463 $\pm$ 0.158 χ^2 /NDF: 1306.2/29

Left Out: 3.757 $\pm$ 0.056 χ^2 /NDF: 7450.7/24

Right Out: 1.825 $\pm$ 0.160 χ^2 /NDF: 1426.0/32

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

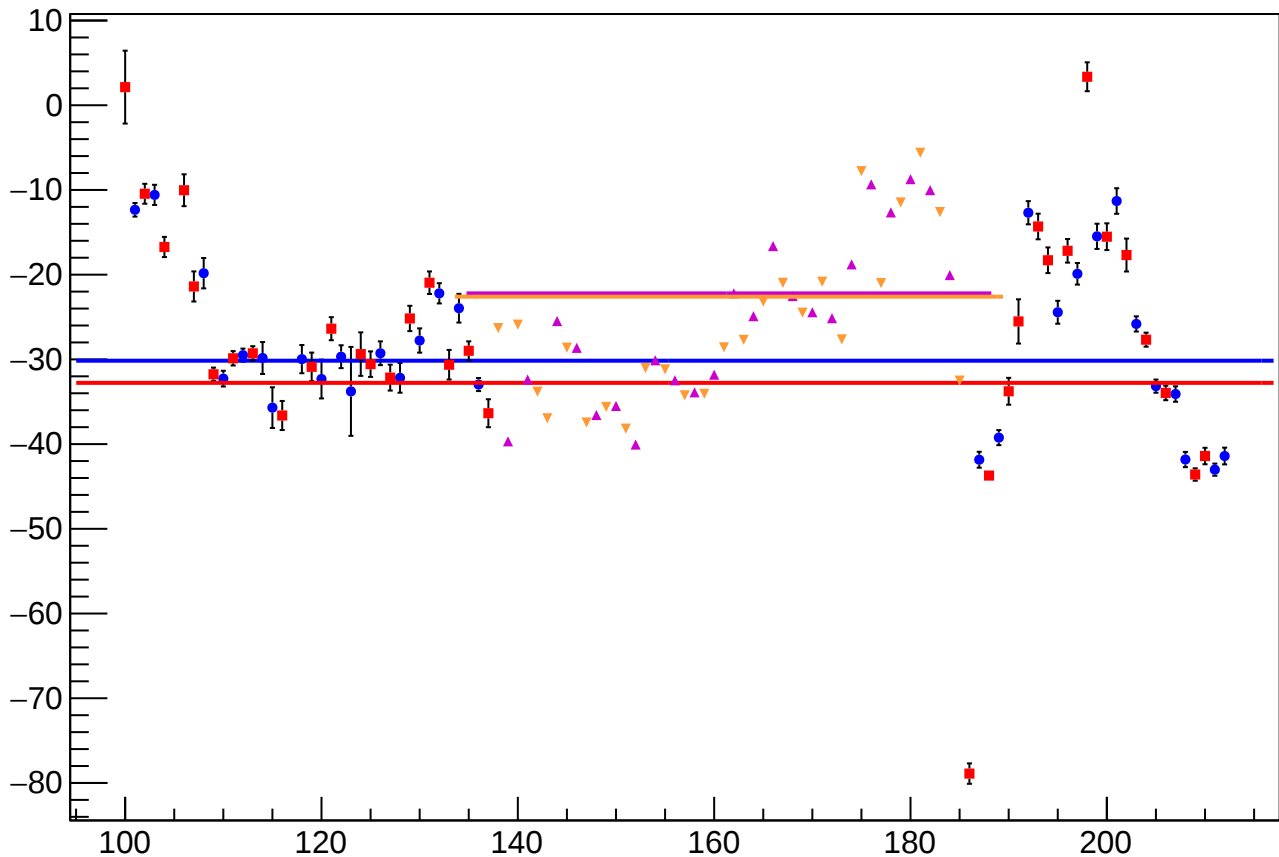
Right: 2.149 $\pm$ 0.112 χ^2 /NDF: 2740.3/62

In: 3.609 $\pm$ 0.053 χ^2 /NDF: 6995.3/52

Out: 3.550 $\pm$ 0.052 χ^2 /NDF: 9006.2/57

All: 3.579 $\pm$ 0.037 χ^2 /NDF: 16002.1/110

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -30.156 ± 0.203 χ^2/NDF : 2317.8/29

Left Out: -22.598 ± 0.071 χ^2/NDF : 19933.4/24

Right Out: -32.770 ± 0.196 χ^2/NDF : 4419.6/32

Left In: -22.209 ± 0.072 χ^2/NDF : 17627.4/22

Left: -22.406 ± 0.050 χ^2/NDF : 37575.6/47

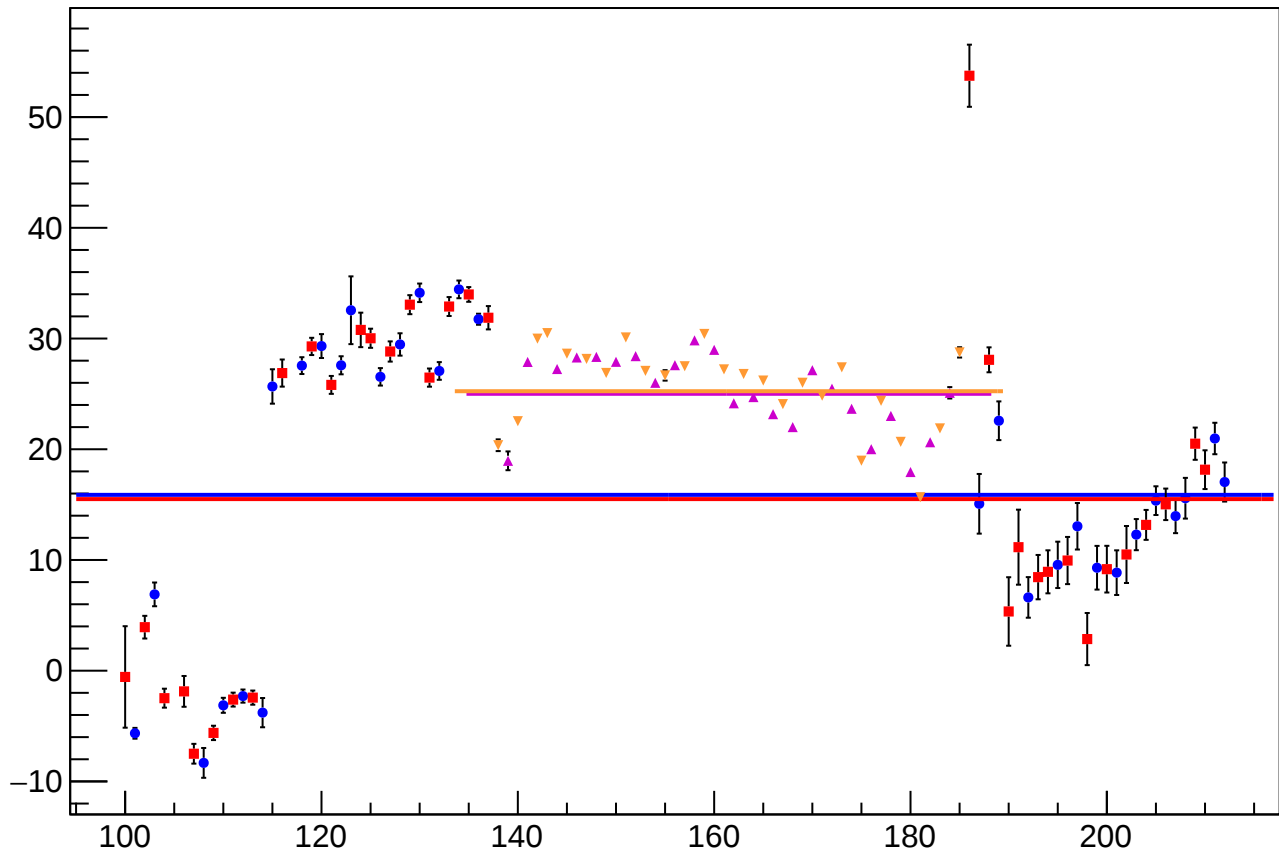
Right: -31.505 ± 0.141 χ^2/NDF : 6823.2/62

In: -23.090 ± 0.068 χ^2/NDF : 21310.5/52

Out: -23.765 ± 0.067 χ^2/NDF : 26728.3/57

All: -23.432 ± 0.047 χ^2/NDF : 48089.6/110

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.881 $\pm$ 0.179 χ^2 /NDF: 7639.6/29

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.498 $\pm$ 0.183 χ^2 /NDF: 7675.3/32

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

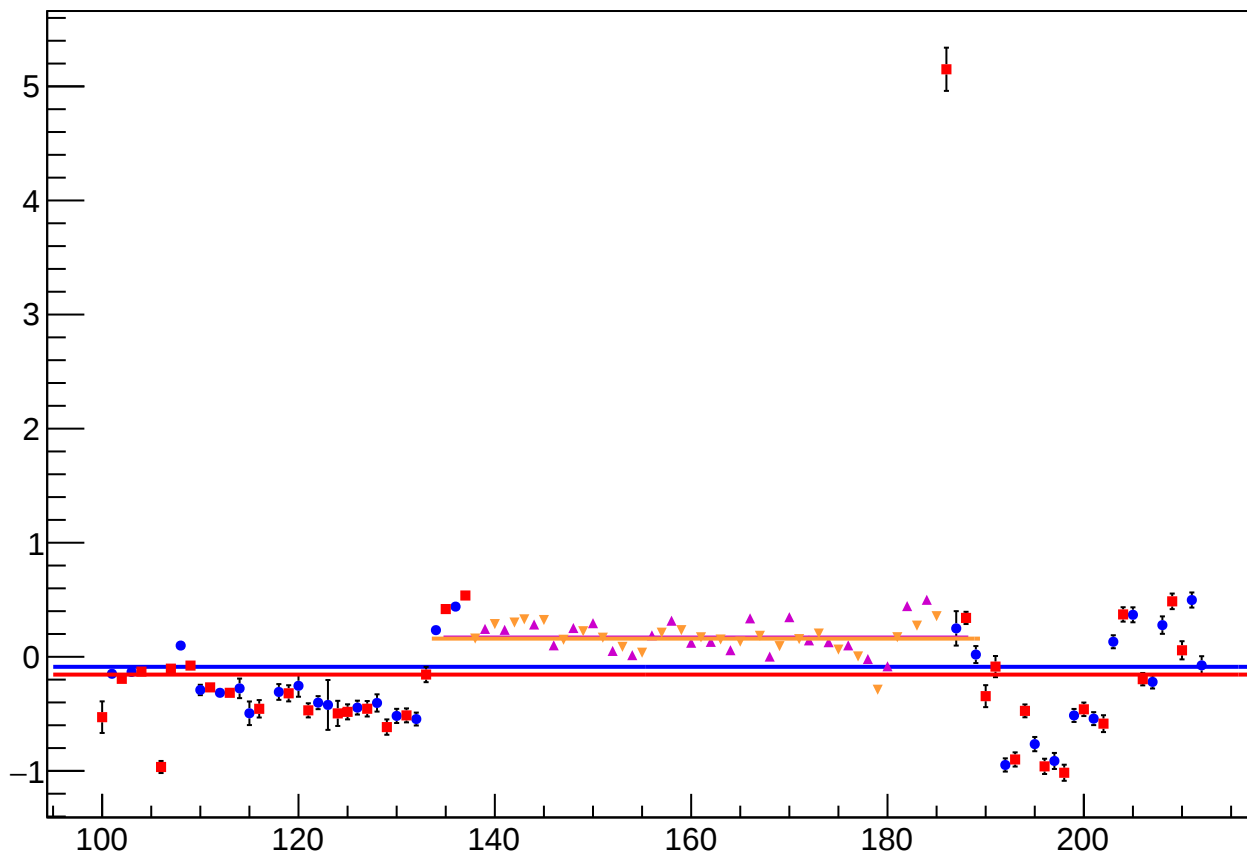
Right: 15.694 $\pm$ 0.128 χ^2 /NDF: 15317.2/62

In: 23.974 $\pm$ 0.060 χ^2 /NDF:12678.8/52

Out: 24.219 $\pm$ 0.059 χ^2 /NDF:14003.6/57

All: 24.098 $\pm$ 0.042 χ^2 /NDF: 26690.9/110

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.088 ± 0.009 χ^2/NDF : 1809.7/29

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.156 ± 0.009 χ^2/NDF : 2734.7/32

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

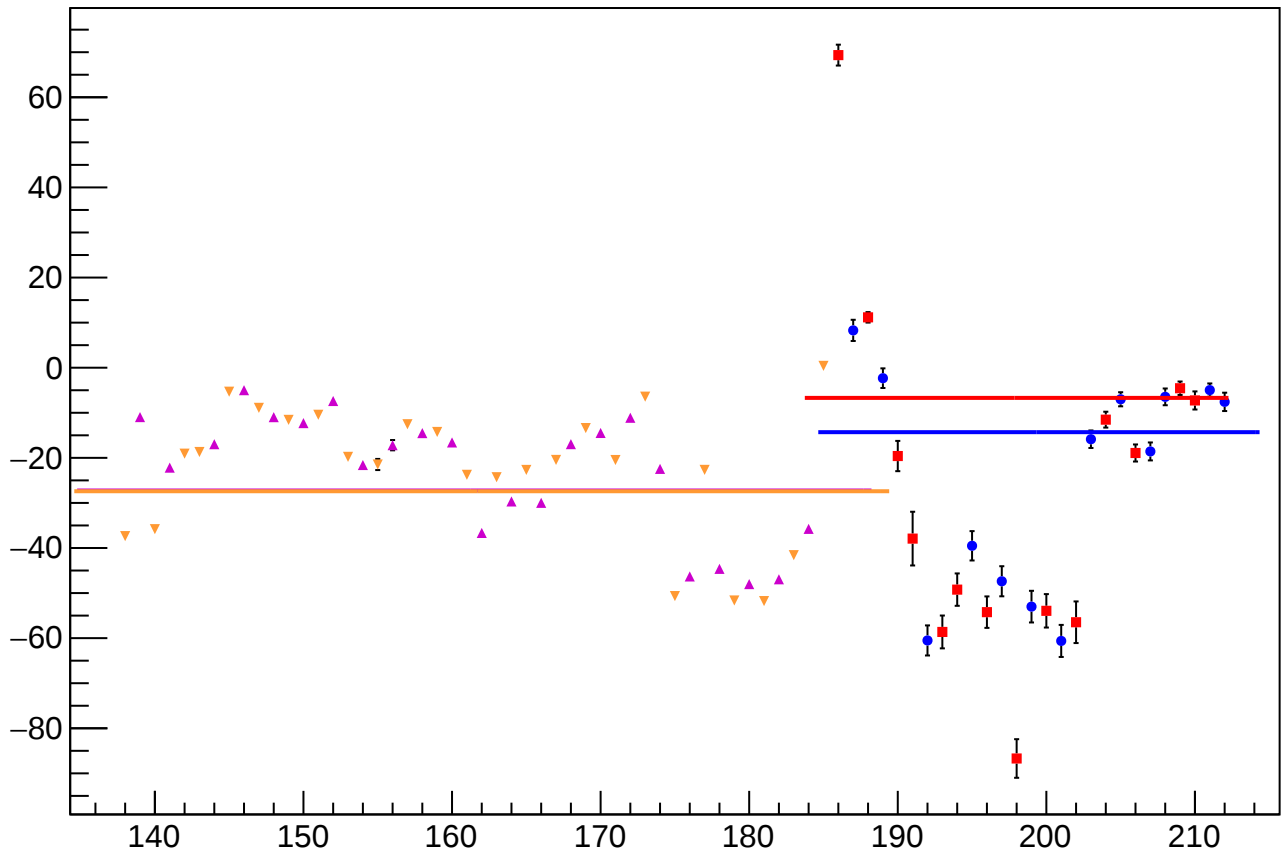
Right: -0.122 ± 0.006 χ^2/NDF : 4572.9/62

In: 0.145 ± 0.003 χ^2/NDF : 4964.9/52

Out: 0.130 ± 0.003 χ^2/NDF : 5709.4/57

All: 0.137 ± 0.002 χ^2/NDF : 10687.5/110

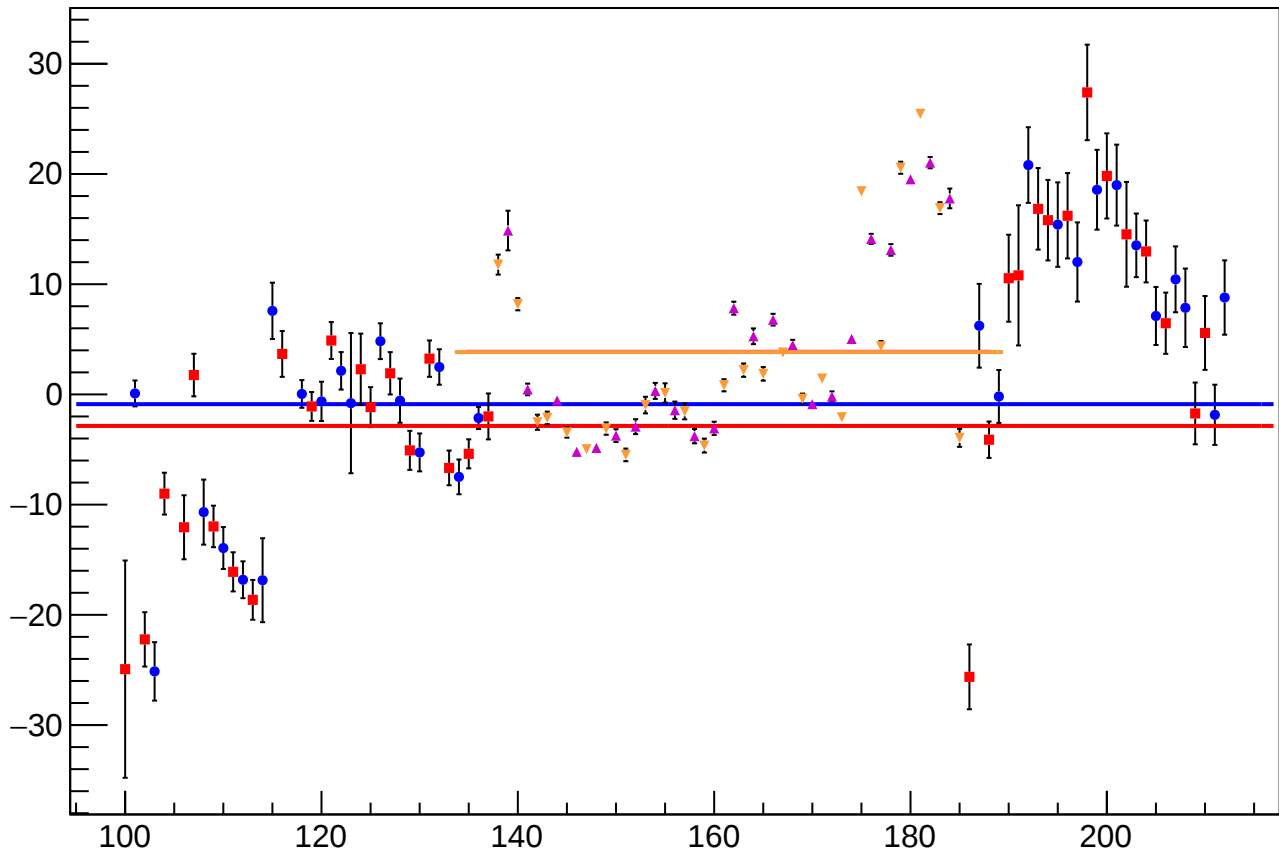
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.302 ± 0.604 $\chi^2/\text{NDF}: 859.4/12$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -6.696 ± 0.603 $\chi^2/\text{NDF}: 2563.7/13$
 Left In: -27.243 ± 0.139 $\chi^2/\text{NDF}: 11305.2/22$

Left: -27.327 ± 0.098 $\chi^2/\text{NDF}: 26156.4/47$
 Right: -10.493 ± 0.427 $\chi^2/\text{NDF}: 3502.6/26$
 In: -26.588 ± 0.136 $\chi^2/\text{NDF}: 12600.9/35$
 Out: -26.393 ± 0.133 $\chi^2/\text{NDF}: 18536.8/38$
 All: -26.489 ± 0.095 $\chi^2/\text{NDF}: 31138.7/74$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.884 ± 0.373 χ^2/NDF : 503.5/29

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -2.859 ± 0.381 χ^2/NDF : 617.4/32

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

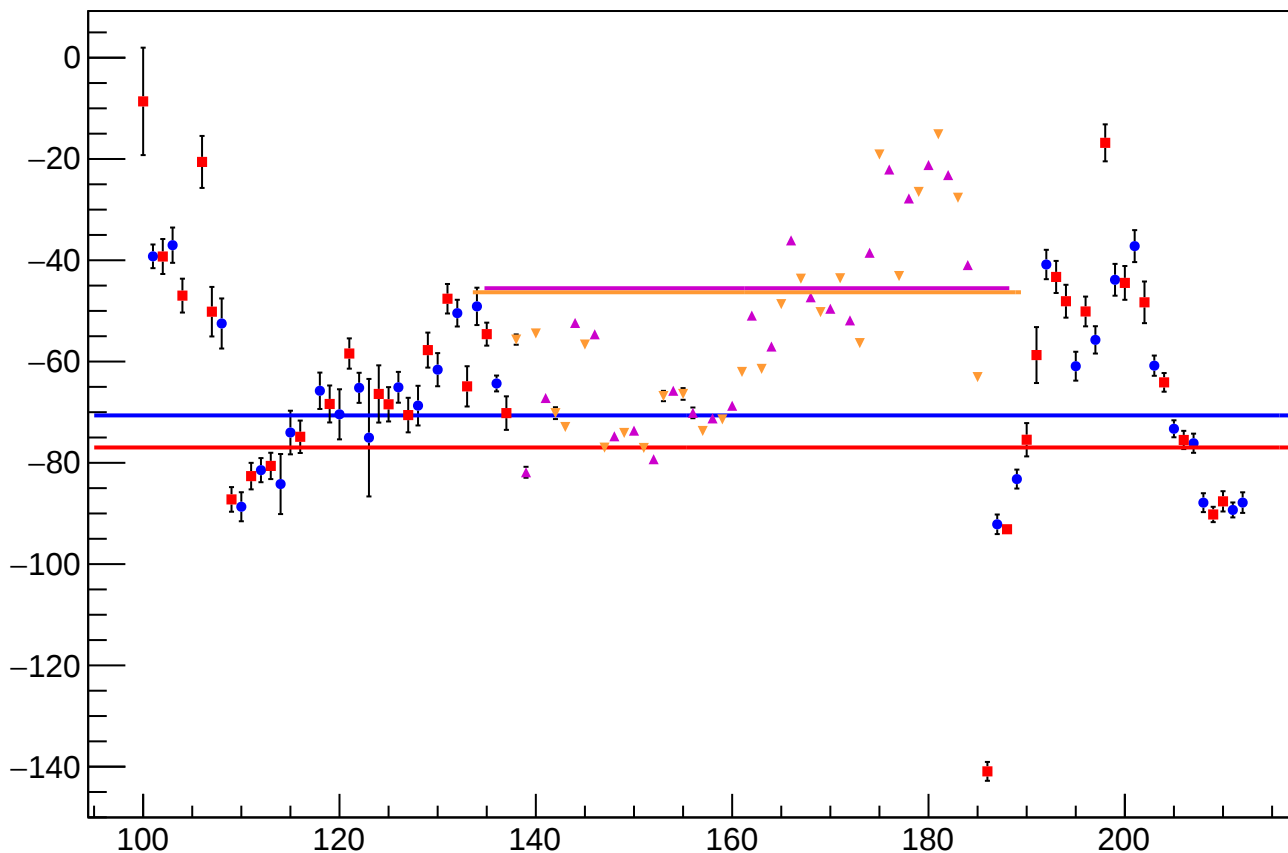
Right: -1.851 ± 0.266 χ^2/NDF : 1134.7/62

In: 3.478 ± 0.107 χ^2/NDF : 6076.7/52

Out: 3.331 ± 0.105 χ^2/NDF : 7843.0/57

All: 3.403 ± 0.075 χ^2/NDF : 13920.7/110

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -70.636 ± 0.455 χ^2/NDF : 1332.0/29

Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24

Right Out: -76.966 ± 0.441 χ^2/NDF : 3049.1/32

Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47

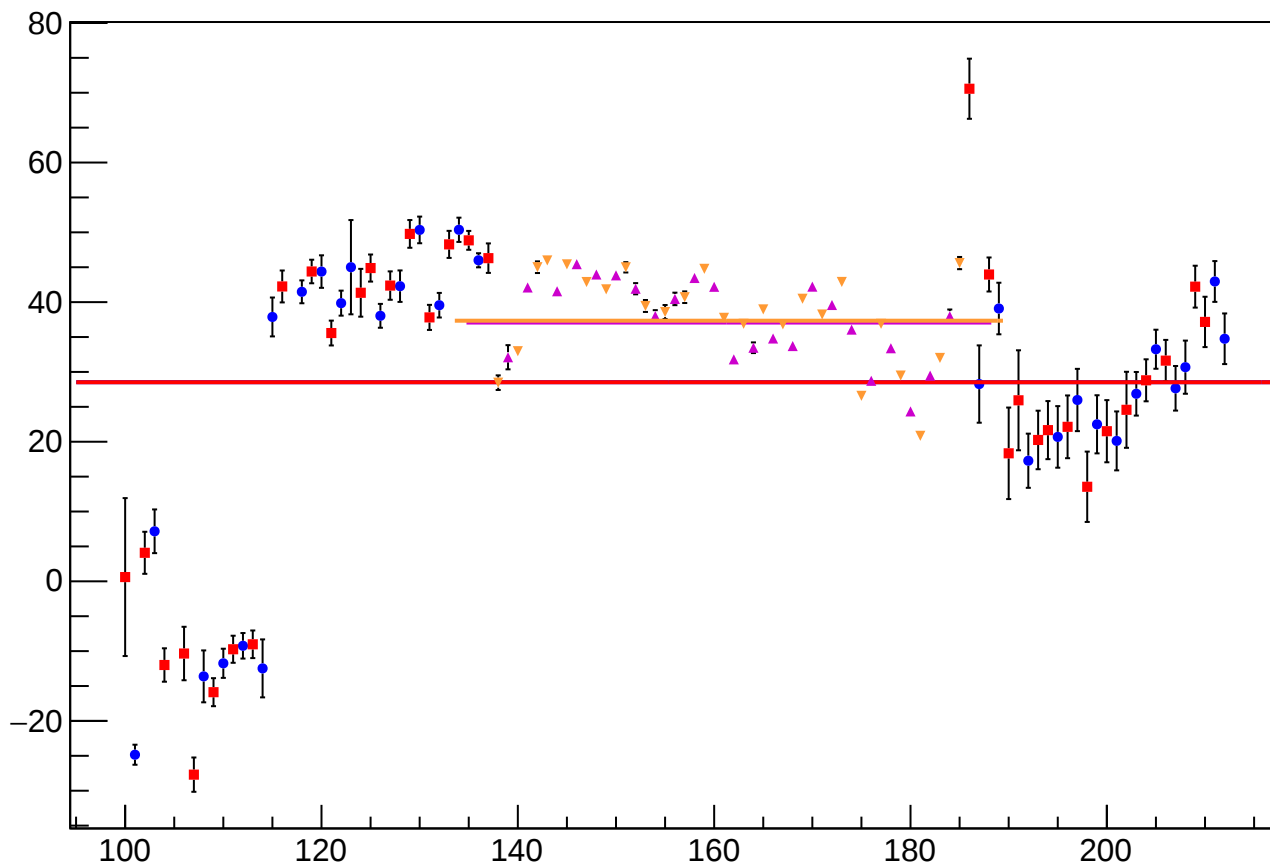
Right: -73.901 ± 0.317 χ^2/NDF : 4480.9/62

In: -47.684 ± 0.134 χ^2/NDF : 21638.3/52

Out: -49.048 ± 0.132 χ^2/NDF : 27581.8/57

All: -48.376 ± 0.094 χ^2/NDF : 49273.0/110

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.529 $\pm$ 0.419 χ^2 /NDF: 3368.2/29

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.523 $\pm$ 0.434 χ^2 /NDF: 3223.0/32

Left In: 37.074 $\pm$ 0.125 χ^2 /NDF:2397.3/22

Left: 37.209 $\pm$ 0.088 χ^2 /NDF: 5548.7/47

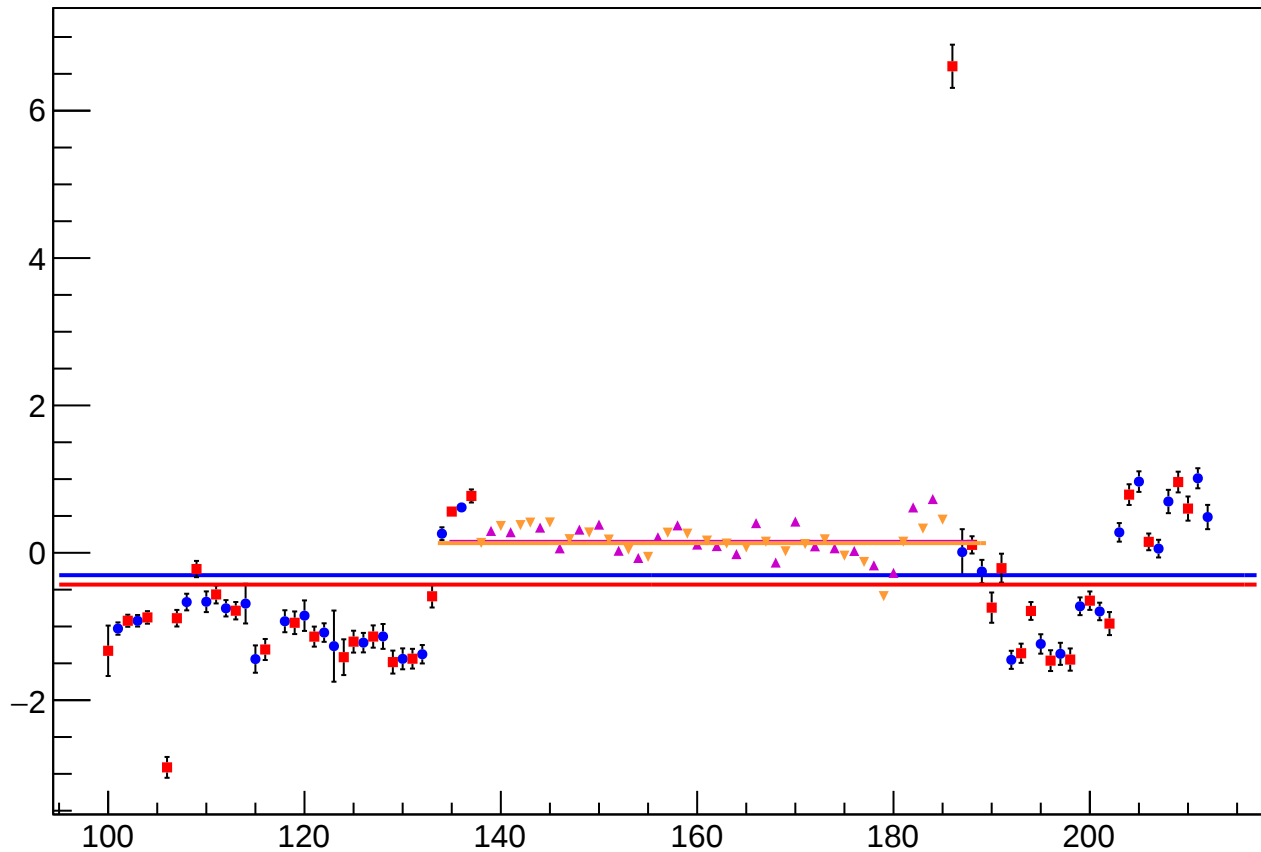
Right: 28.526 $\pm$ 0.302 χ^2 /NDF: 6591.3/62

In: 36.375 $\pm$ 0.120 χ^2 /NDF:6146.8/52

Out: 36.685 $\pm$ 0.118 χ^2 /NDF:6754.4/57

All: 36.532 $\pm$ 0.084 χ^2 /NDF: 12904.6/110

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.304 ± 0.021 χ^2/NDF : 1498.7/29

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.431 ± 0.021 χ^2/NDF : 2182.1/32

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

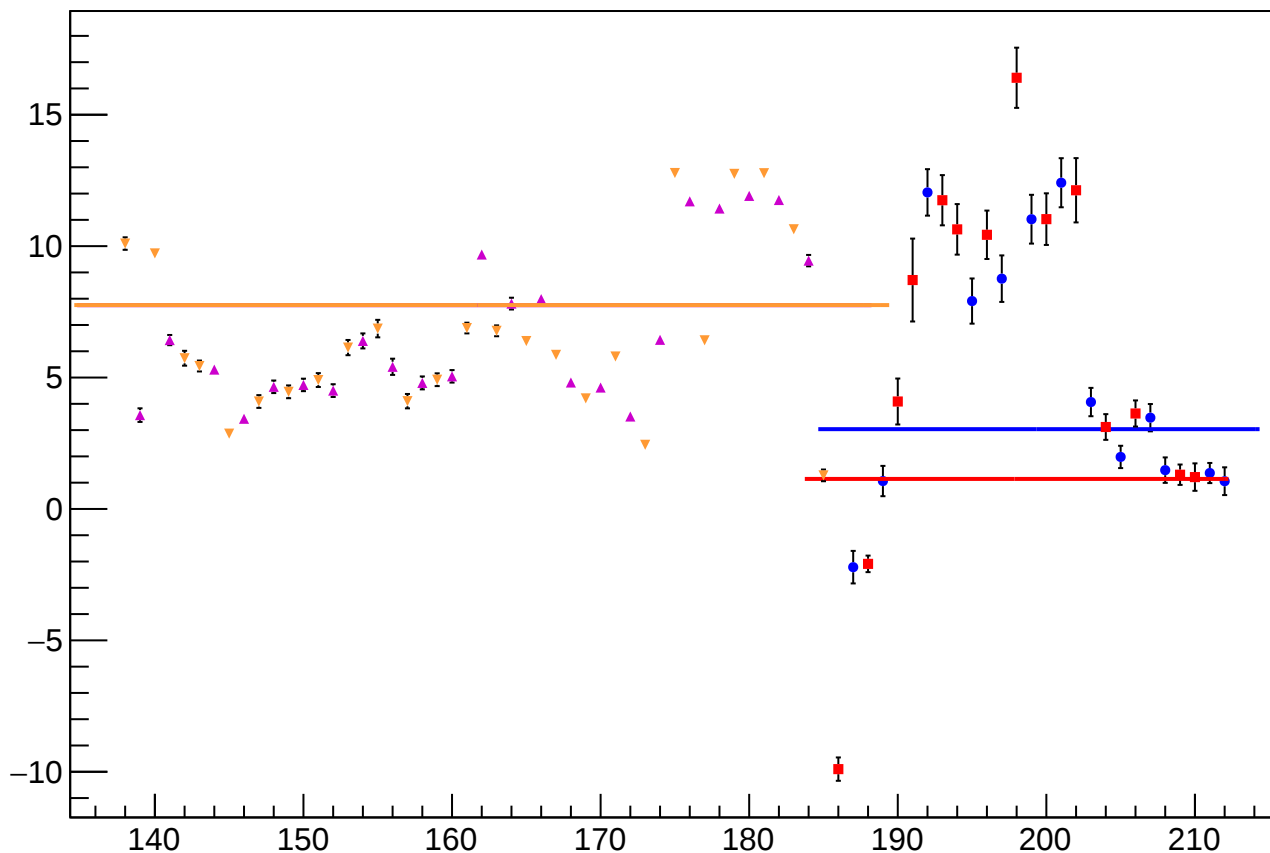
Right: -0.366 ± 0.015 χ^2/NDF : 3699.0/62

In: 0.117 ± 0.006 χ^2/NDF : 3735.5/52

Out: 0.095 ± 0.005 χ^2/NDF : 4254.4/57

All: 0.106 ± 0.004 χ^2/NDF : 7998.2/110

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.036 $\pm$ 0.160 χ^2 /NDF: 490.3/12

Left Out: 7.757 $\pm$ 0.034 χ^2 /NDF:11728.6/24

Right Out: 1.143 $\pm$ 0.156 χ^2 /NDF: 1481.2/13

Left In: 7.753 $\pm$ 0.035 χ^2 /NDF:8345.2/22

Left: 7.755 $\pm$ 0.025 χ^2 /NDF: 20073.8/47

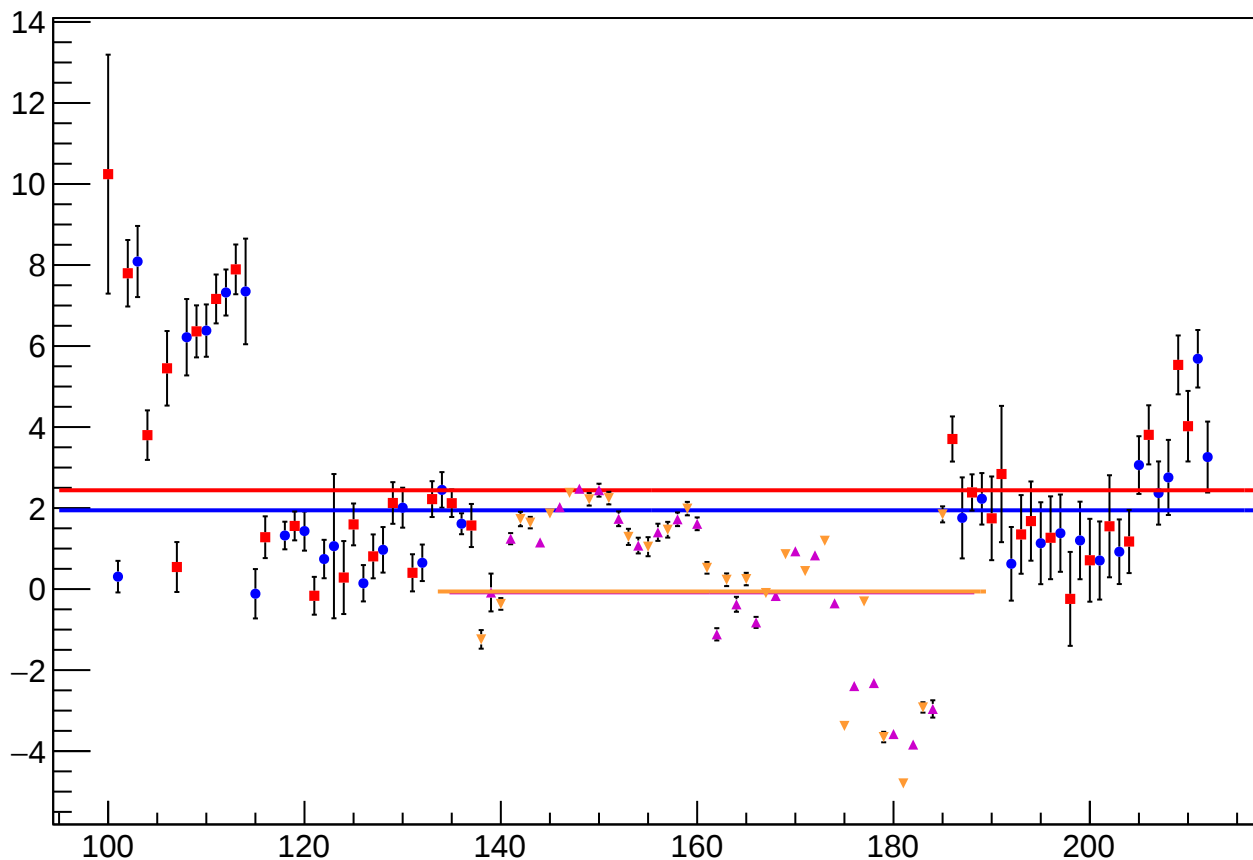
Right: 2.065 $\pm$ 0.111 χ^2 /NDF: 2043.6/26

In: 7.536 $\pm$ 0.034 χ^2 /NDF:9667.2/35

Out: 7.450 $\pm$ 0.034 χ^2 /NDF:14931.0/38

All: 7.492 $\pm$ 0.024 χ^2 /NDF: 24601.4/74

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.945 ± 0.105 $\chi^2/\text{NDF}: 334.7/29$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.439 ± 0.107 $\chi^2/\text{NDF}: 381.0/32$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

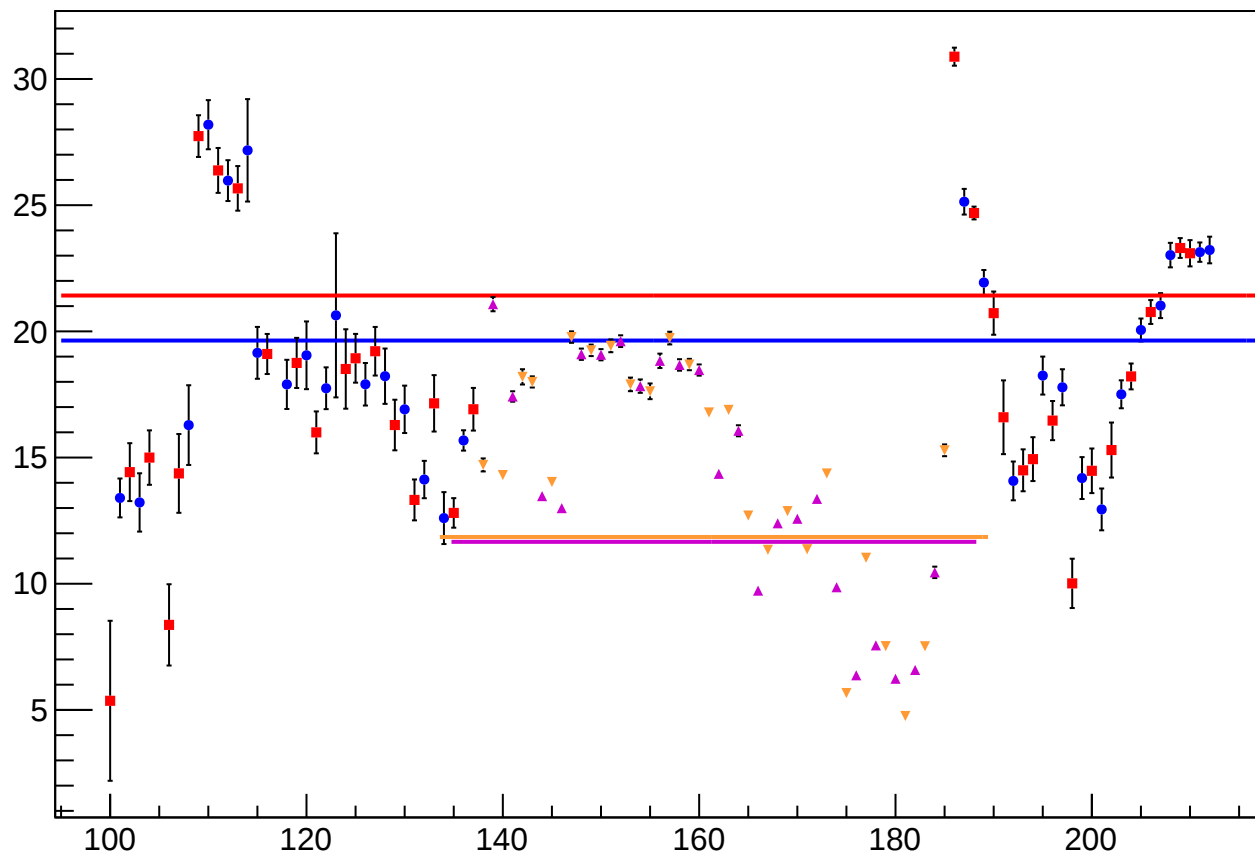
Right: 2.188 ± 0.075 $\chi^2/\text{NDF}: 726.6/62$

In: 0.057 ± 0.027 $\chi^2/\text{NDF}: 5662.9/52$

Out: 0.099 ± 0.027 $\chi^2/\text{NDF}: 6964.4/57$

All: 0.079 ± 0.019 $\chi^2/\text{NDF}: 12628.5/110$

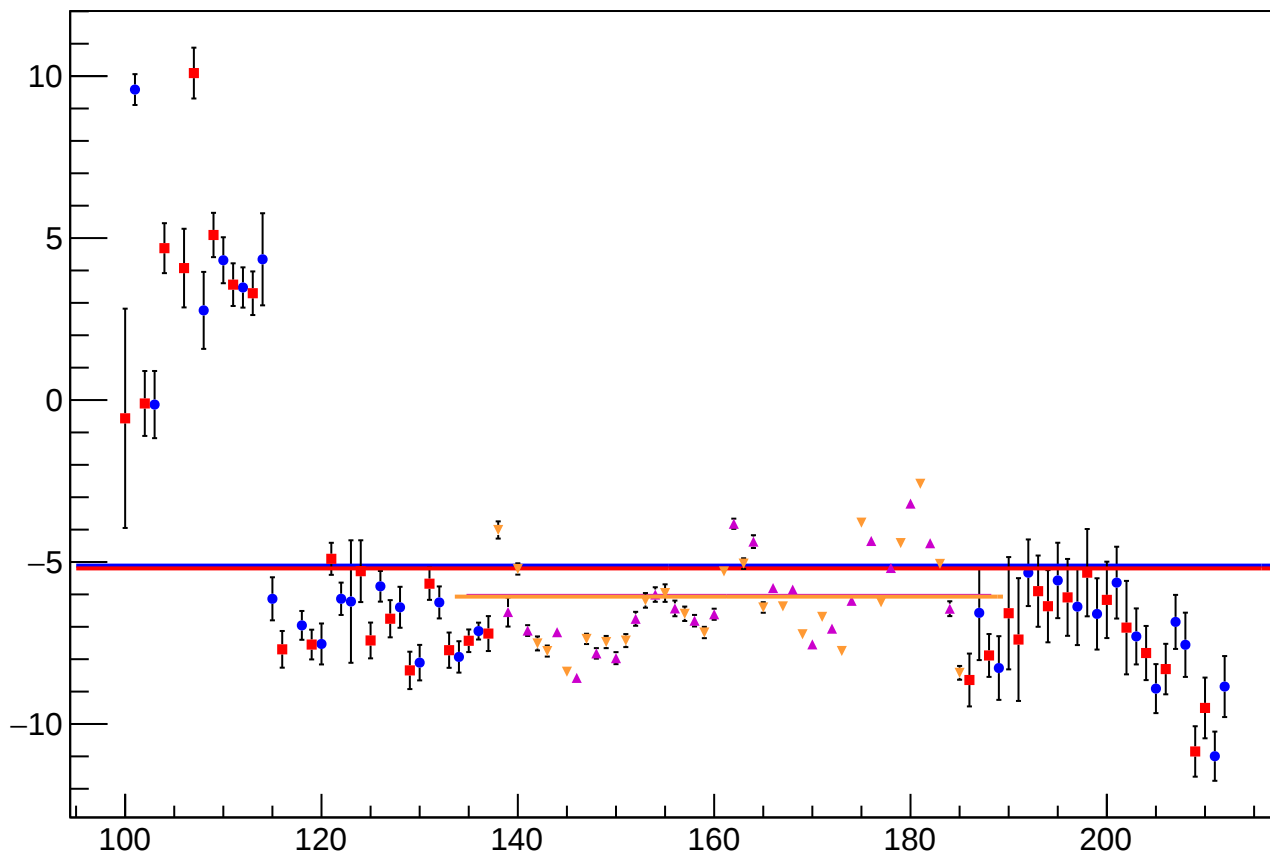
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.636 ± 0.124 $\chi^2/\text{NDF}: 985.6/29$
 Left Out: 11.853 ± 0.035 $\chi^2/\text{NDF}: 19149.4/24$
 Right Out: 21.420 ± 0.118 $\chi^2/\text{NDF}: 2106.7/32$
 Left In: 11.660 ± 0.035 $\chi^2/\text{NDF}: 16710.2/22$

Left: 11.758 ± 0.025 $\chi^2/\text{NDF}: 35874.9/47$
 Right: 20.573 ± 0.085 $\chi^2/\text{NDF}: 3201.1/62$
 In: 12.255 ± 0.034 $\chi^2/\text{NDF}: 21530.3/52$
 Out: 12.616 ± 0.033 $\chi^2/\text{NDF}: 27324.3/57$
 All: 12.439 ± 0.024 $\chi^2/\text{NDF}: 48912.2/110$

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.111 ± 0.117 $\chi^2/\text{NDF}: 1737.5/29$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -5.198 ± 0.122 $\chi^2/\text{NDF}: 1509.6/32$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

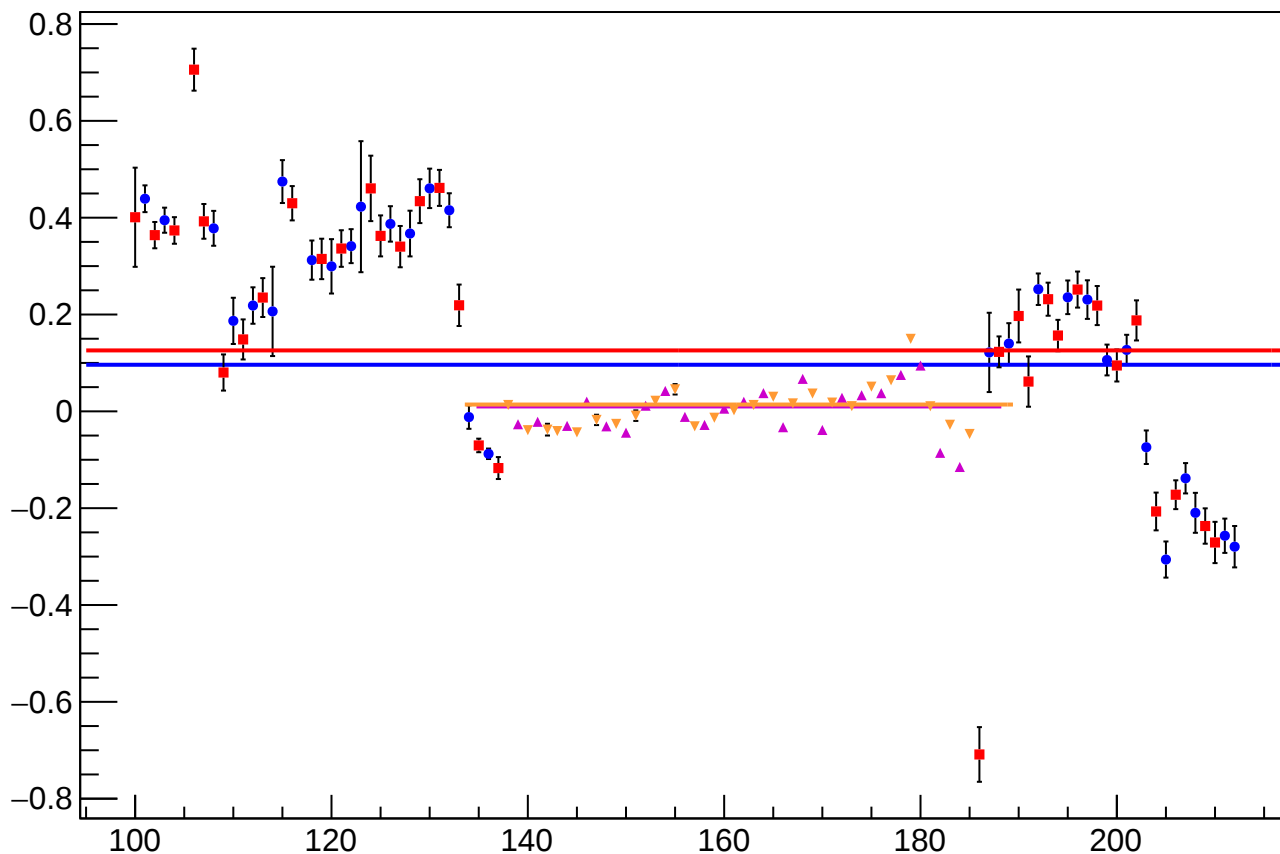
Right: -5.153 ± 0.085 $\chi^2/\text{NDF}: 3247.4/62$

In: -5.981 ± 0.031 $\chi^2/\text{NDF}: 4090.2/52$

Out: -6.015 ± 0.030 $\chi^2/\text{NDF}: 4229.4/57$

All: -5.998 ± 0.021 $\chi^2/\text{NDF}: 8320.2/110$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.096 $\pm$ 0.006 χ^2 /NDF: 1580.8/29

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.126 $\pm$ 0.006 χ^2 /NDF: 1668.1/32

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

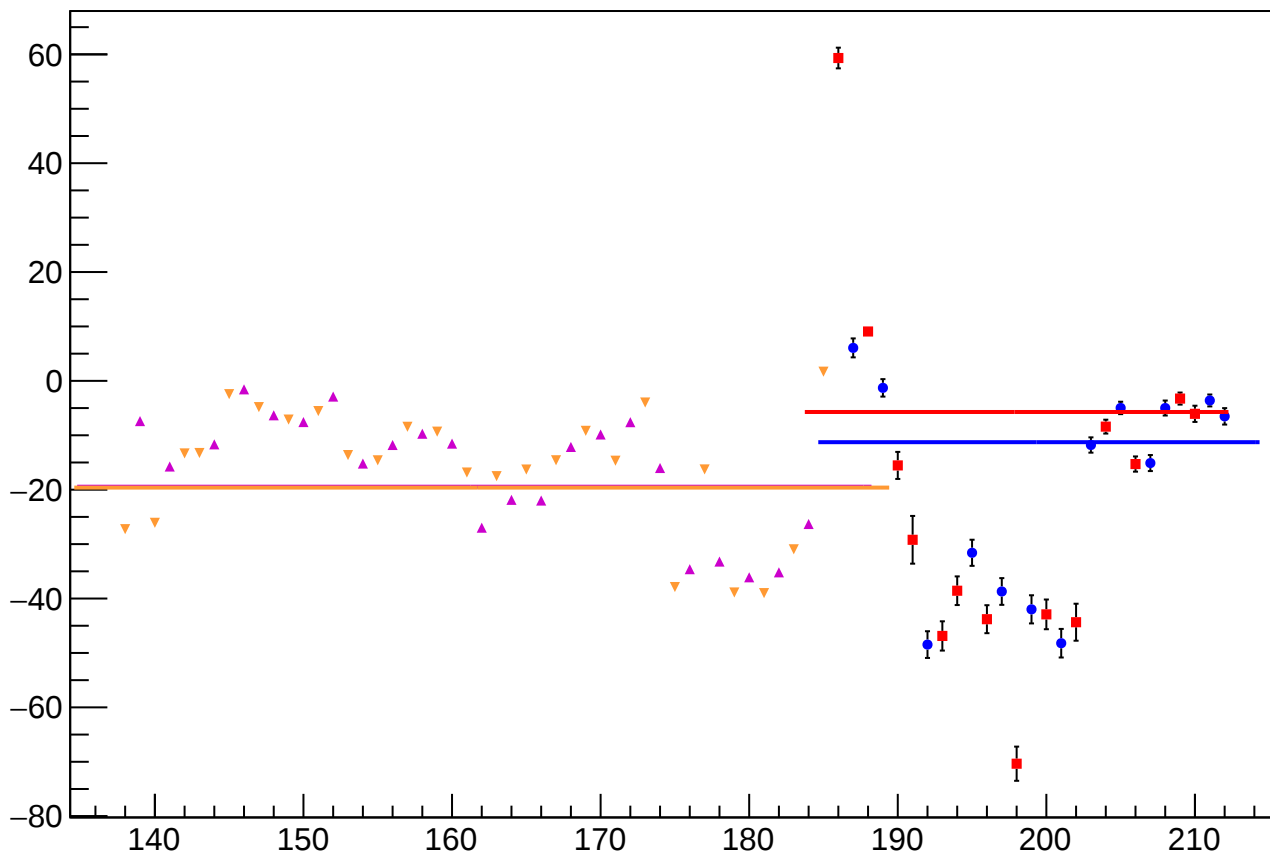
Right: 0.111 $\pm$ 0.004 χ^2 /NDF: 3261.5/62

In: 0.015 $\pm$ 0.001 χ^2 /NDF: 3003.6/52

Out: 0.020 $\pm$ 0.001 χ^2 /NDF: 2954.5/57

All: 0.018 $\pm$ 0.001 χ^2 /NDF: 5964.2/110

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.268 ± 0.445 $\chi^2/\text{NDF}: 1020.0/12$
 Left Out: -19.612 ± 0.103 $\chi^2/\text{NDF}: 15761.3/24$
 Right Out: -5.719 ± 0.446 $\chi^2/\text{NDF}: 2923.5/13$
 Left In: -19.450 ± 0.105 $\chi^2/\text{NDF}: 12283.1/22$

Left: -19.533 ± 0.074 $\chi^2/\text{NDF}: 28045.6/47$

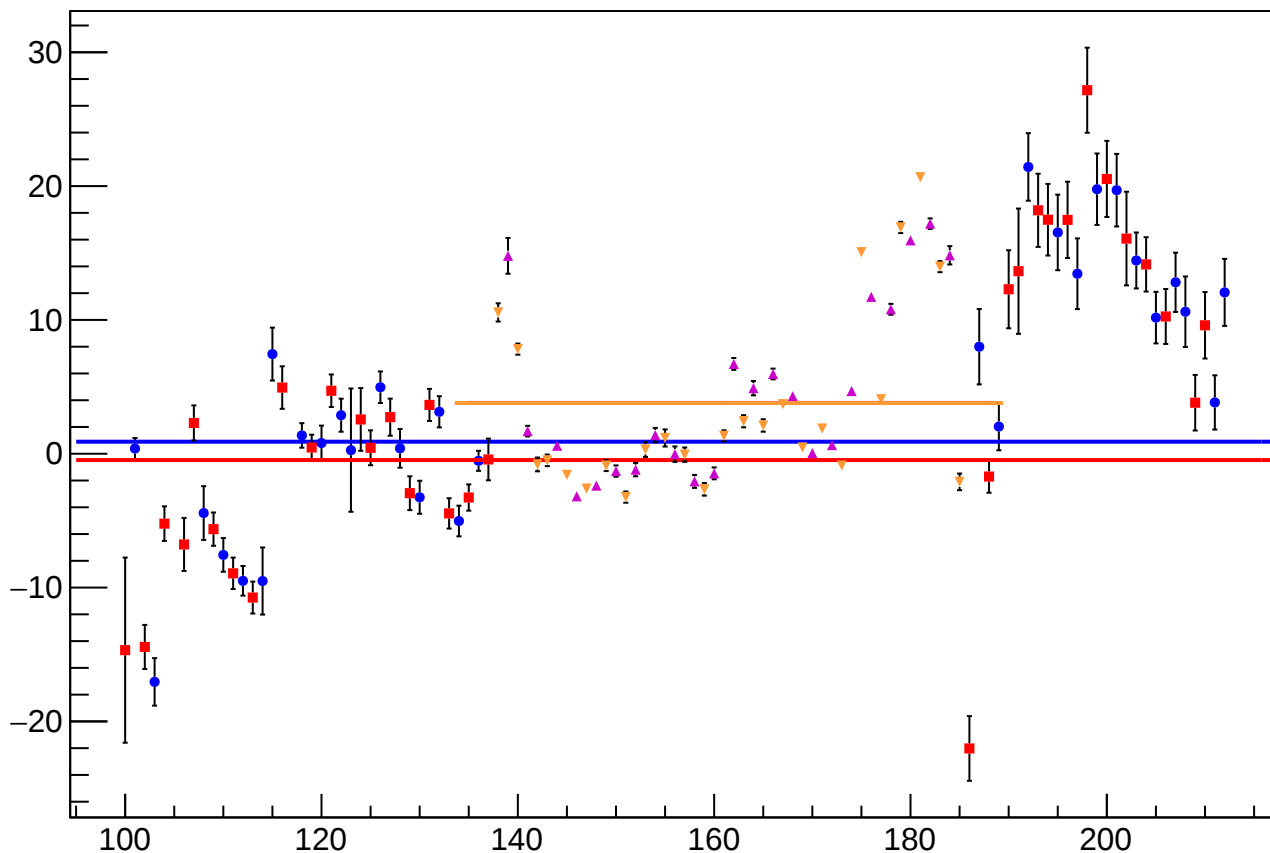
Right: -8.500 ± 0.315 $\chi^2/\text{NDF}: 4021.0/26$

In: -19.018 ± 0.102 $\chi^2/\text{NDF}: 13623.7/35$

Out: -18.906 ± 0.101 $\chi^2/\text{NDF}: 19606.2/38$

All: -18.961 ± 0.072 $\chi^2/\text{NDF}: 33230.5/74$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.901 ± 0.267 χ^2/NDF : 685.6/29

Left Out: 3.788 ± 0.082 χ^2/NDF : 7150.5/24

Right Out: -0.471 ± 0.272 χ^2/NDF : 814.3/32

Left In: 3.799 ± 0.084 χ^2/NDF : 5517.0/22

Left: 3.793 ± 0.059 χ^2/NDF : 12667.5/47

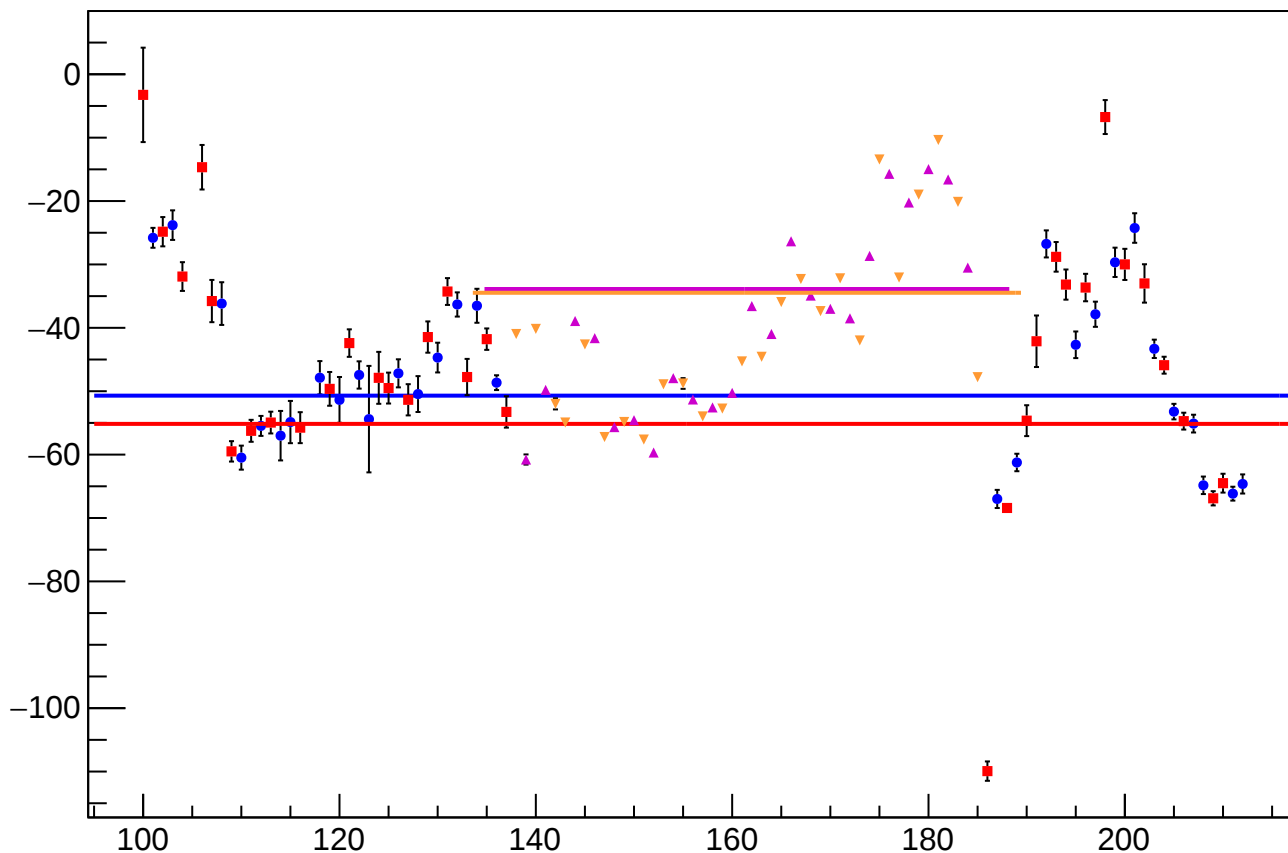
Right: 0.229 ± 0.190 χ^2/NDF : 1512.8/62

In: 3.540 ± 0.080 χ^2/NDF : 6310.1/52

Out: 3.433 ± 0.079 χ^2/NDF : 8189.4/57

All: 3.486 ± 0.056 χ^2/NDF : 14500.3/110

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -50.699+/-0.330 χ^2 /NDF: 1555.1/29

Left Out: -34.471+/-0.104 χ^2 /NDF: 20196.3/24

Right Out: -55.154+/-0.321 χ^2 /NDF: 3413.6/32

Left In: -33.875+/-0.105 χ^2 /NDF: 17638.7/22

Left: -34.177+/-0.074 χ^2 /NDF: 37851.2/47

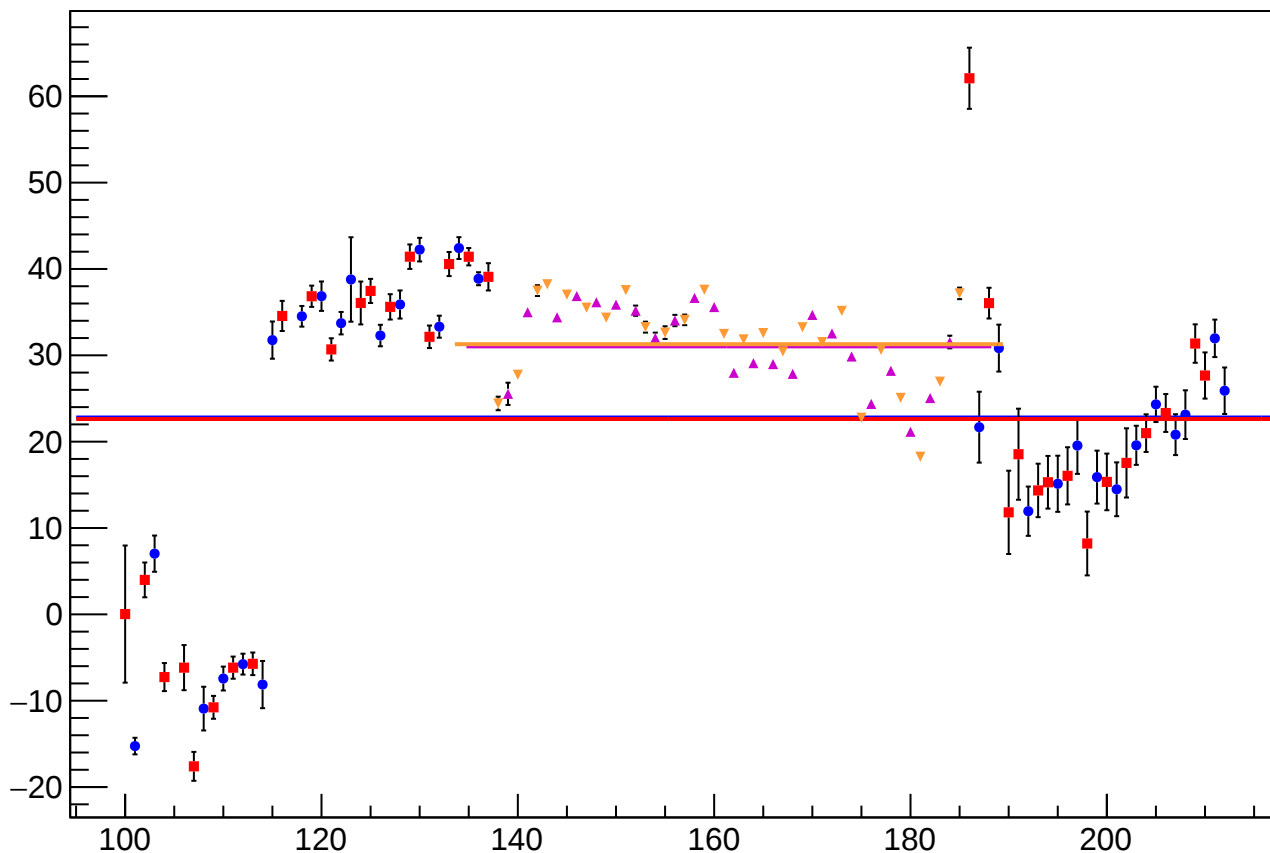
Right: -52.993+/-0.230 χ^2 /NDF: 5062.3/62

In: -35.426+/-0.100 χ^2 /NDF: 21547.5/52

Out: -36.437+/-0.099 χ^2 /NDF: 27373.6/57

All: -35.939+/-0.070 χ^2 /NDF: 48972.6/110

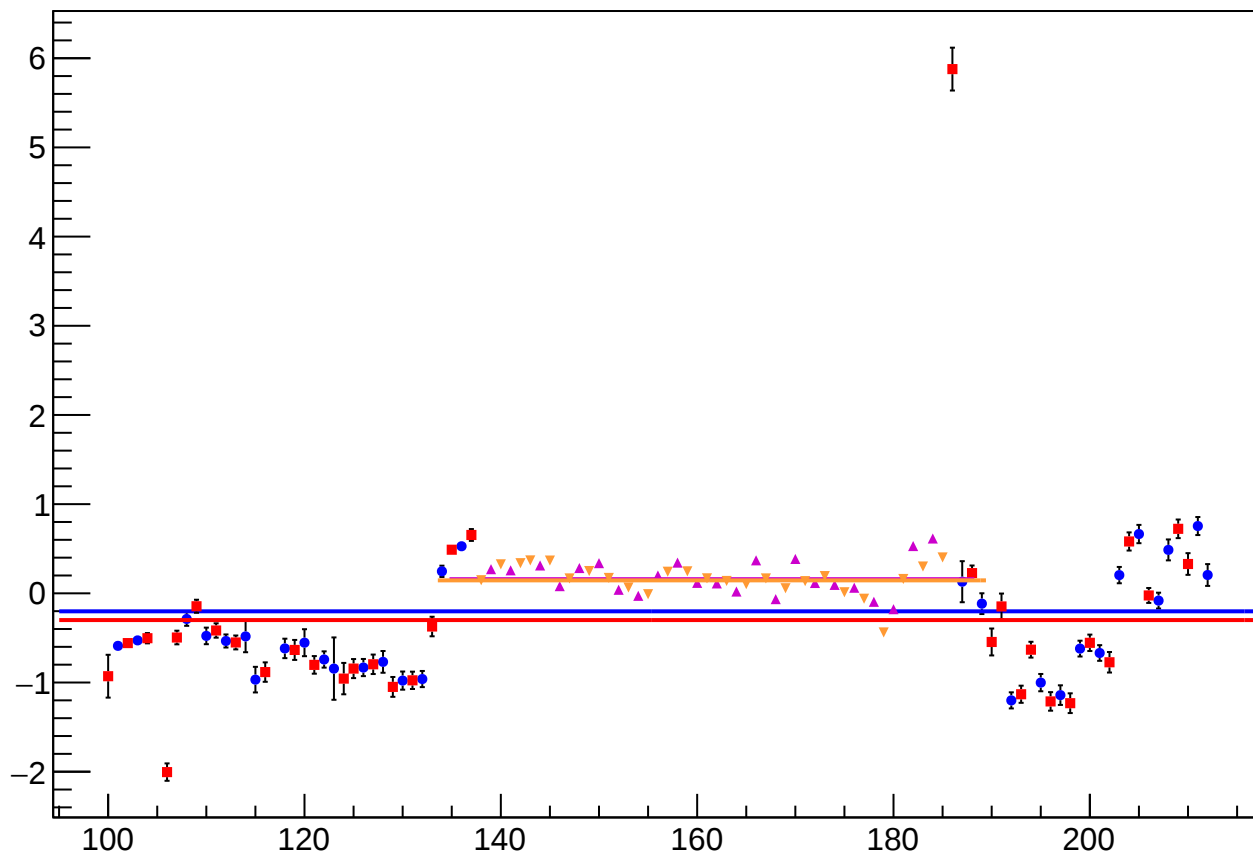
reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.796 $\pm$ 0.301 χ^2 /NDF: 4381.8/29
 Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24
 Right Out: 22.627 $\pm$ 0.310 χ^2 /NDF: 4277.3/32
 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: 22.714 $\pm$ 0.216 χ^2 /NDF: 8659.3/62
 In: 30.302 $\pm$ 0.090 χ^2 /NDF:7546.4/52
 Out: 30.581 $\pm$ 0.089 χ^2 /NDF:8338.6/57
 All: 30.444 $\pm$ 0.063 χ^2 /NDF: 15889.8/110

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.202 ± 0.015 χ^2/NDF : 1540.9/29

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.300 ± 0.015 χ^2/NDF : 2349.1/32

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

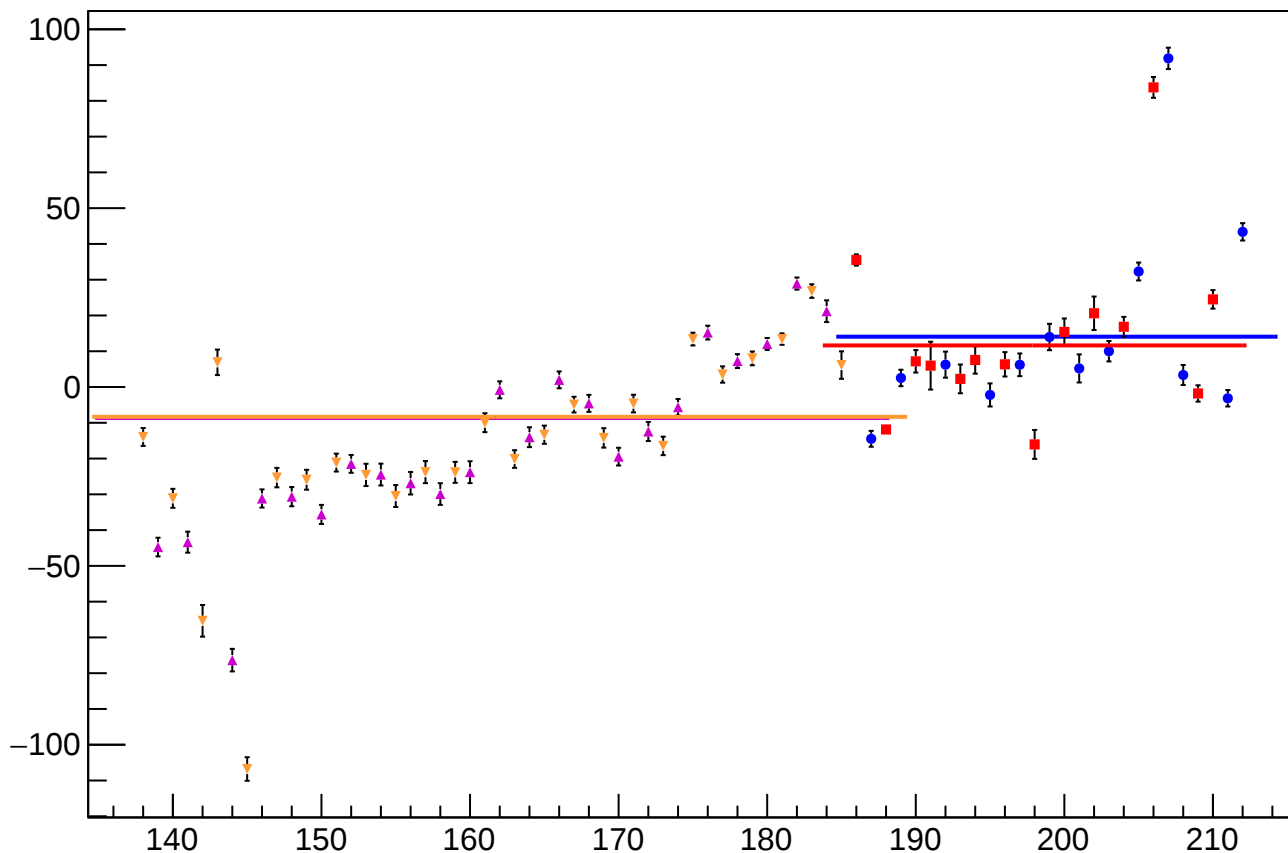
Right: -0.250 ± 0.011 χ^2/NDF : 3910.8/62

In: 0.132 ± 0.004 χ^2/NDF : 4079.7/52

Out: 0.114 ± 0.004 χ^2/NDF : 4713.5/57

All: 0.123 ± 0.003 χ^2/NDF : 8802.5/110

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.071 ± 0.771 $\chi^2/\text{NDF}: 1181.1/12$

Left Out: -8.332 ± 0.500 $\chi^2/\text{NDF}: 2226.2/24$

Right Out: 11.626 ± 0.680 $\chi^2/\text{NDF}: 1330.5/13$

Left In: -8.652 ± 0.507 $\chi^2/\text{NDF}: 2223.8/22$

Left: -8.490 ± 0.356 $\chi^2/\text{NDF}: 4450.2/47$

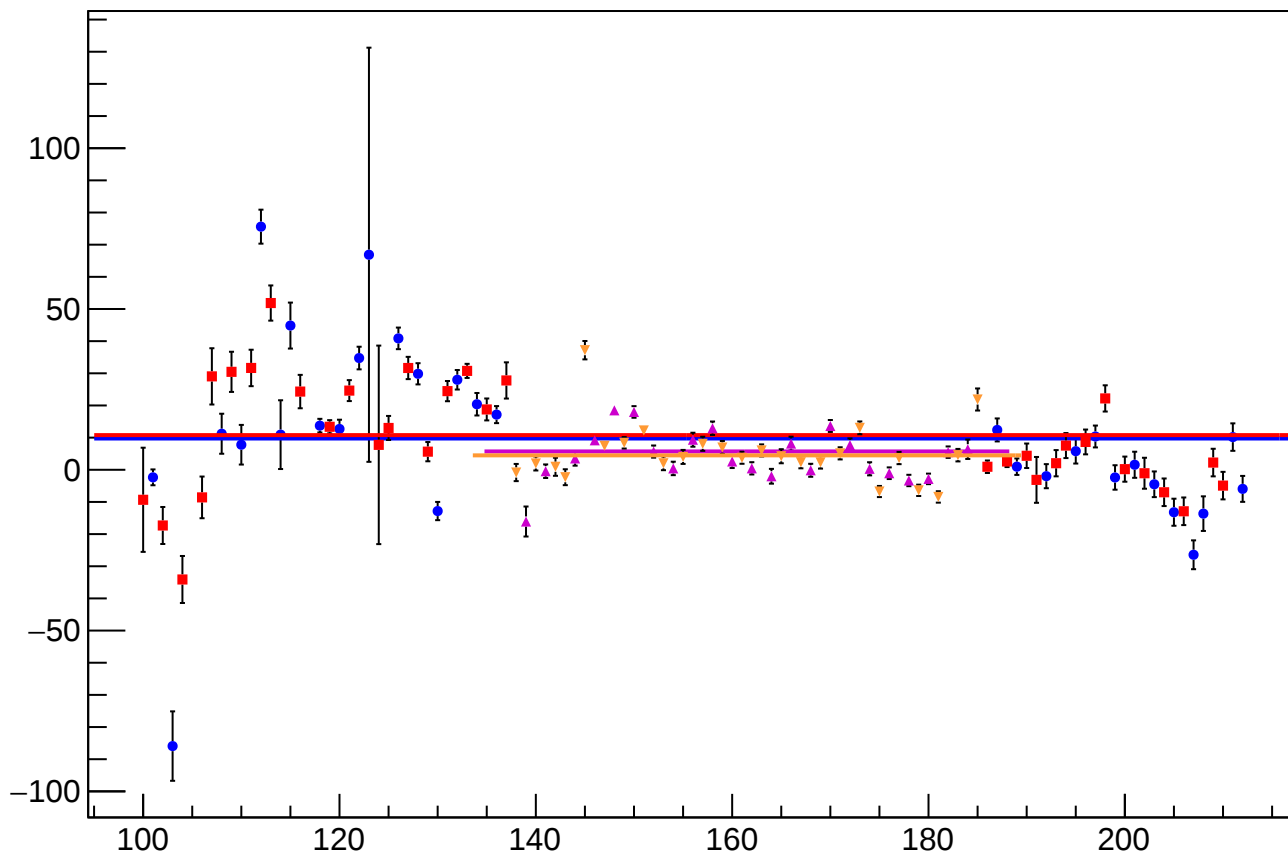
Right: 12.695 ± 0.510 $\chi^2/\text{NDF}: 2517.3/26$

In: -1.792 ± 0.424 $\chi^2/\text{NDF}: 4010.9/35$

Out: -1.331 ± 0.403 $\chi^2/\text{NDF}: 4116.6/38$

All: -1.549 ± 0.292 $\chi^2/\text{NDF}: 8128.1/74$

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.727 ± 0.665 χ^2/NDF : 756.8/29

Left Out: 4.484 ± 0.392 χ^2/NDF : 371.9/24

Right Out: 10.780 ± 0.631 χ^2/NDF : 485.5/32

Left In: 5.705 ± 0.404 χ^2/NDF : 324.1/22

Left: 5.076 ± 0.281 χ^2/NDF : 700.6/47

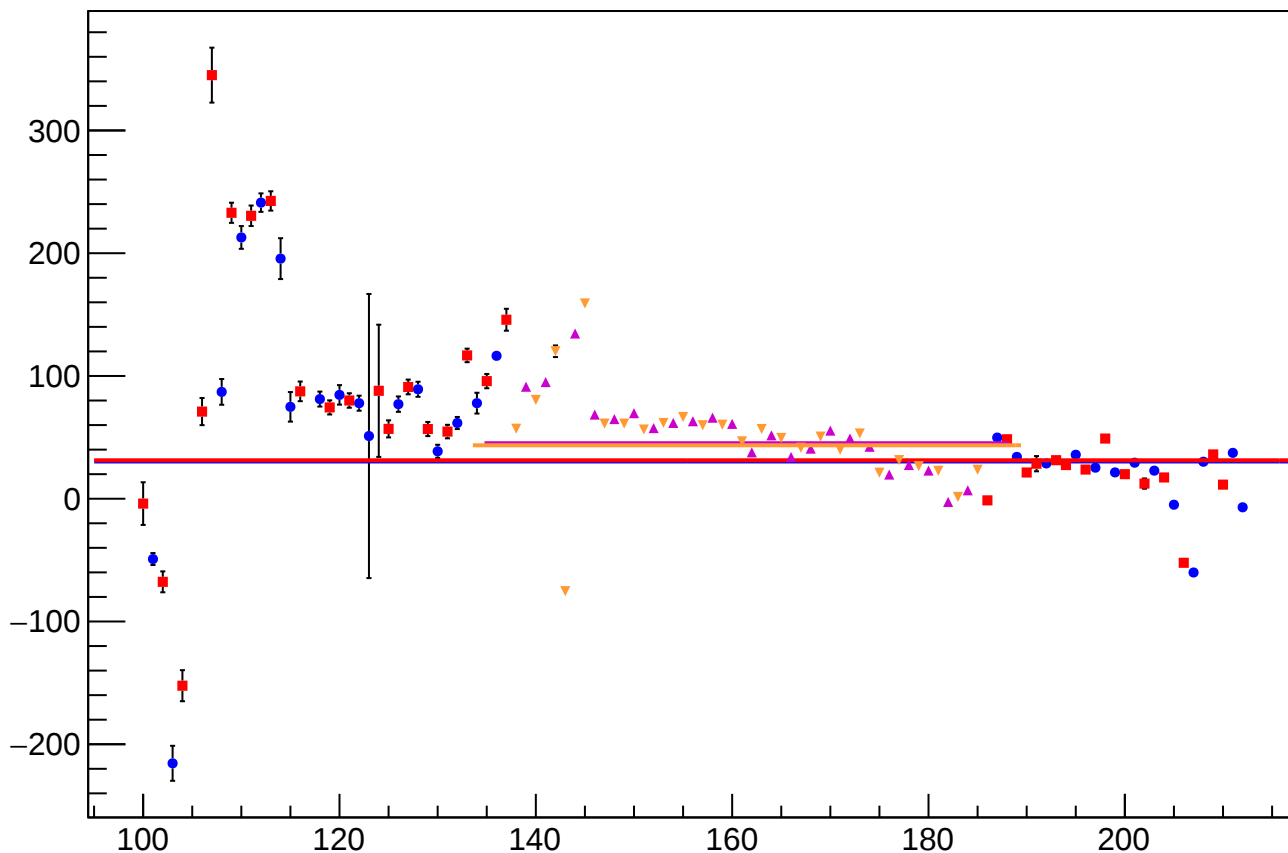
Right: 10.281 ± 0.458 χ^2/NDF : 1243.6/62

In: 6.789 ± 0.345 χ^2/NDF : 1107.5/52

Out: 6.236 ± 0.333 χ^2/NDF : 929.1/57

All: 6.503 ± 0.240 χ^2/NDF : 2037.9/110

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected

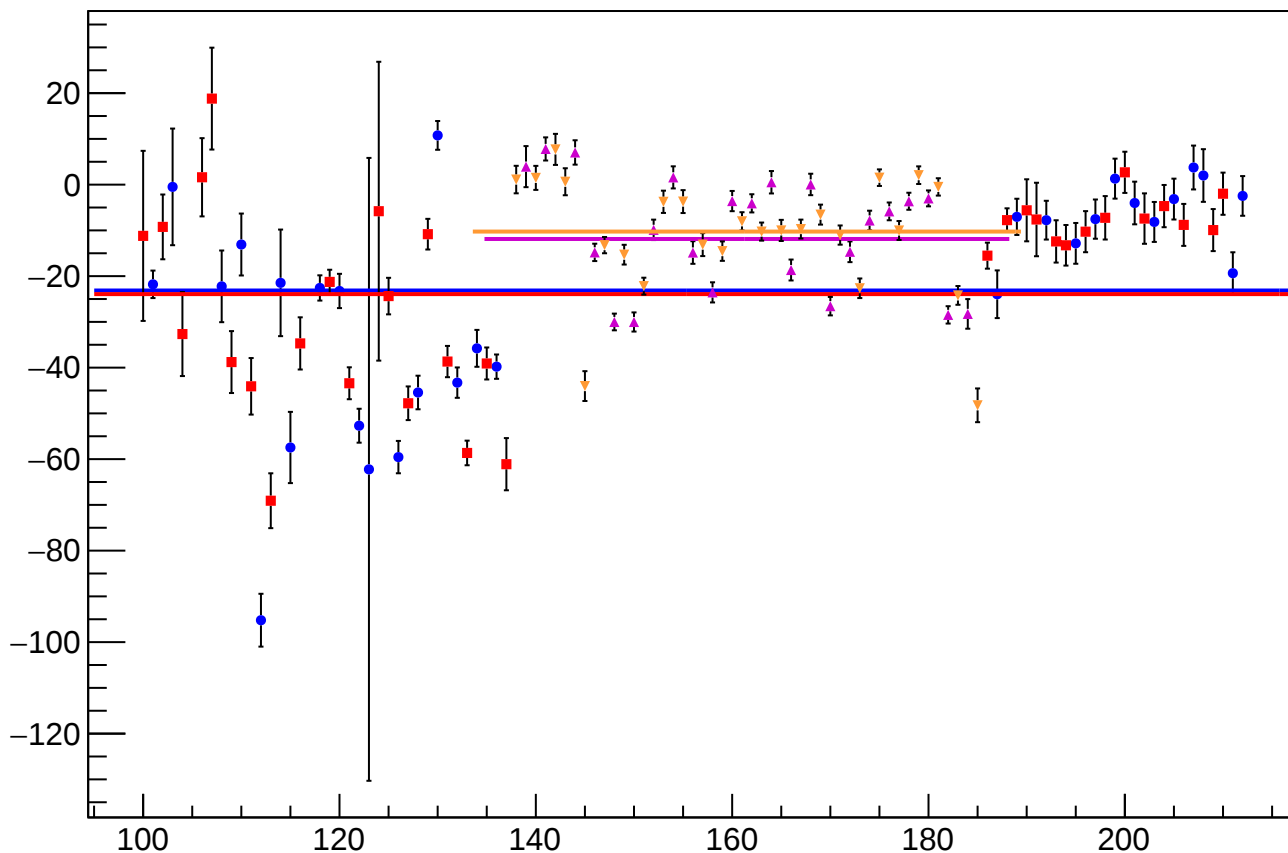


Right In: 30.354+/-0.651 χ^2/NDF : 4292.0/29
 Left Out: 43.524+/-0.498 χ^2/NDF : 3830.7/24
 Right Out: 31.315+/-0.557 χ^2/NDF : 5345.5/32
 Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47
 Right: 30.909+/-0.423 χ^2/NDF : 9638.7/62
 In: 39.643+/-0.399 χ^2/NDF : 7665.8/52
 Out: 38.099+/-0.372 χ^2/NDF : 9442.8/57

All: 38.817+/-0.272 χ^2/NDF : 17116.6/110

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.141 ± 0.774 $\chi^2/\text{NDF}: 791.8/29$

Left Out: -10.257 ± 0.444 $\chi^2/\text{NDF}: 552.4/24$

Right Out: -23.930 ± 0.762 $\chi^2/\text{NDF}: 638.4/32$

Left In: -11.877 ± 0.456 $\chi^2/\text{NDF}: 666.2/22$

Left: -11.046 ± 0.318 $\chi^2/\text{NDF}: 1225.1/47$

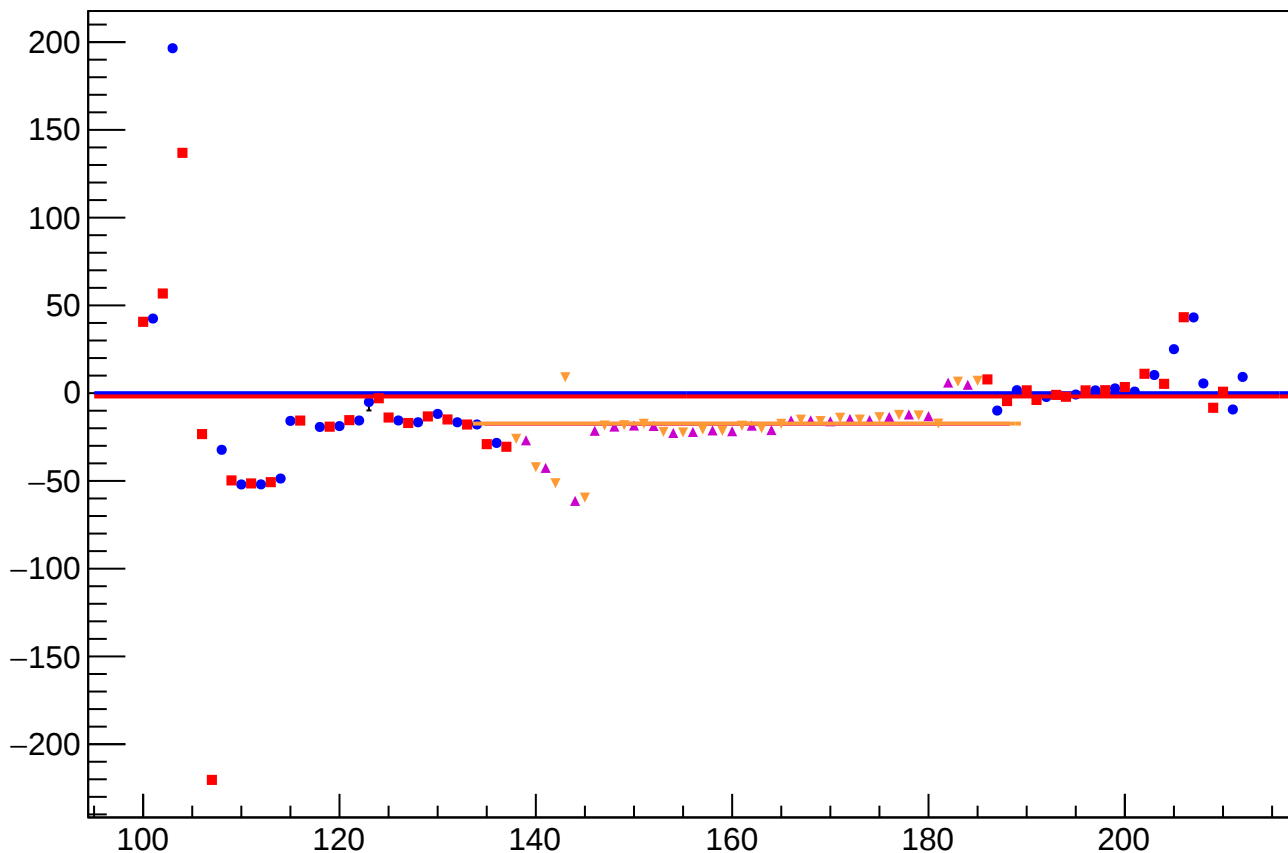
Right: -23.541 ± 0.543 $\chi^2/\text{NDF}: 1430.8/62$

In: -14.781 ± 0.393 $\chi^2/\text{NDF}: 1615.3/52$

Out: -13.727 ± 0.384 $\chi^2/\text{NDF}: 1431.3/57$

All: -14.241 ± 0.275 $\chi^2/\text{NDF}: 3050.3/110$

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.025 ± 0.036 χ^2/NDF : 677969.3/29

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.883 ± 0.035 χ^2/NDF : 672067.0/32

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

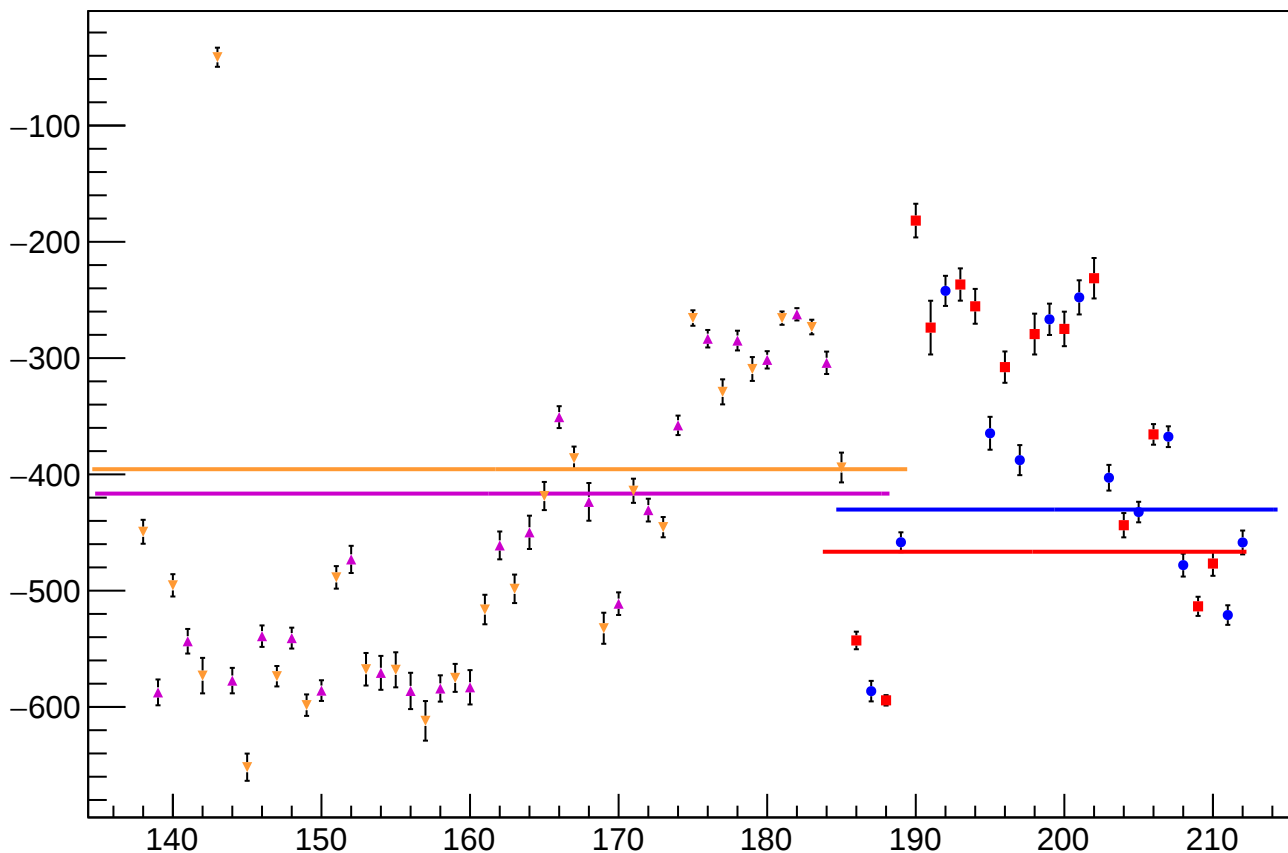
Right: -0.976 ± 0.025 χ^2/NDF : 1351380.9/62

In: -13.202 ± 0.018 χ^2/NDF : 1112420.0/52

Out: -13.481 ± 0.018 χ^2/NDF : 1140268.0/57

All: -13.344 ± 0.013 χ^2/NDF : 2252810.1/110

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -430.244 ± 2.873 $\chi^2/\text{NDF}: 1072.0/12$

Left Out: -395.547 ± 1.953 $\chi^2/\text{NDF}: 5946.5/24$

Right Out: -466.525 ± 2.620 $\chi^2/\text{NDF}: 2612.6/13$

Left In: -416.521 ± 2.005 $\chi^2/\text{NDF}: 3917.0/22$

Left: -405.762 ± 1.399 $\chi^2/\text{NDF}: 9919.7/47$

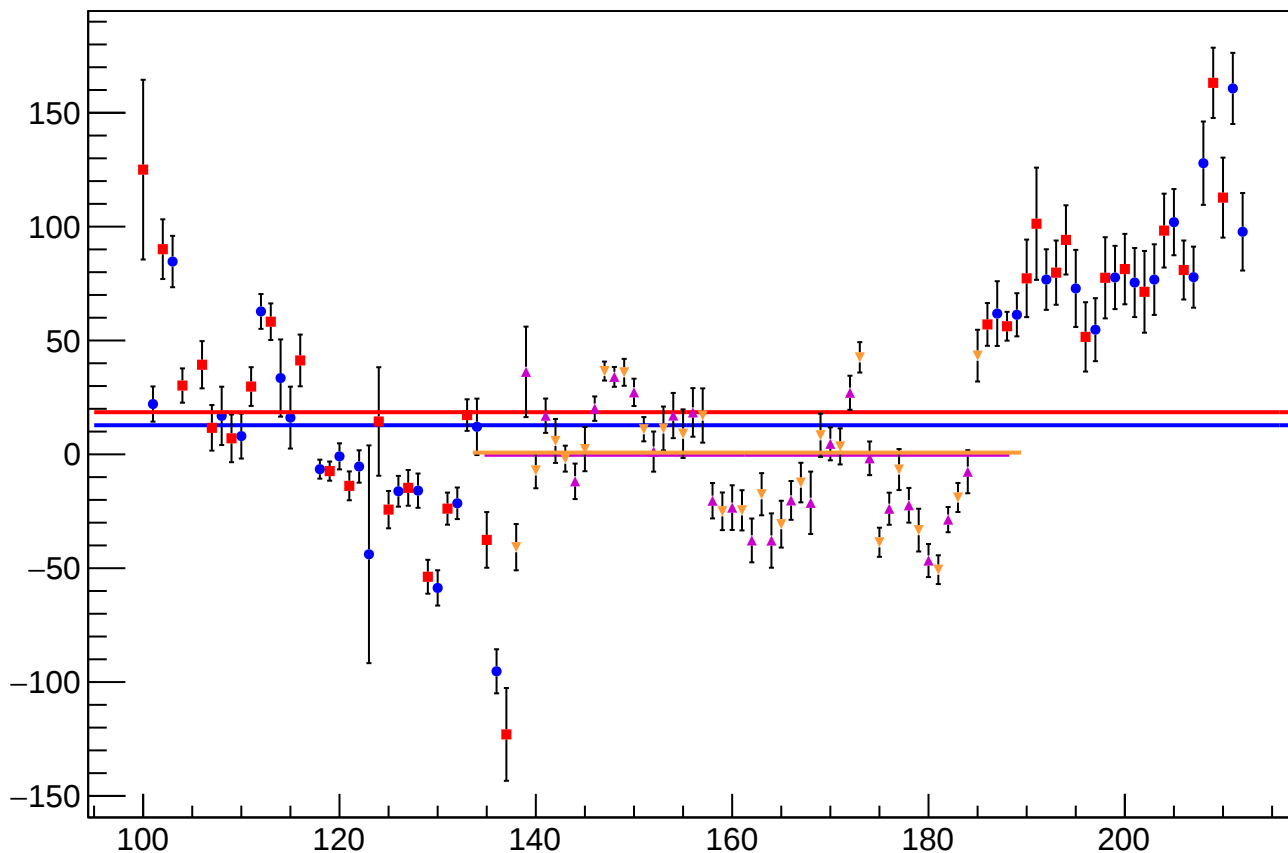
Right: -450.054 ± 1.936 $\chi^2/\text{NDF}: 3771.7/26$

In: -421.015 ± 1.644 $\chi^2/\text{NDF}: 5004.4/35$

Out: -420.911 ± 1.566 $\chi^2/\text{NDF}: 9030.9/38$

All: -420.961 ± 1.134 $\chi^2/\text{NDF}: 14035.2/74$

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.786 ± 1.729 χ^2/NDF : 742.8/29

Left Out: 0.767 ± 1.503 χ^2/NDF : 350.1/24

Right Out: 18.516 ± 1.679 χ^2/NDF : 708.5/32

Left In: -0.202 ± 1.575 χ^2/NDF : 260.8/22

Left: 0.305 ± 1.087 χ^2/NDF : 611.1/47

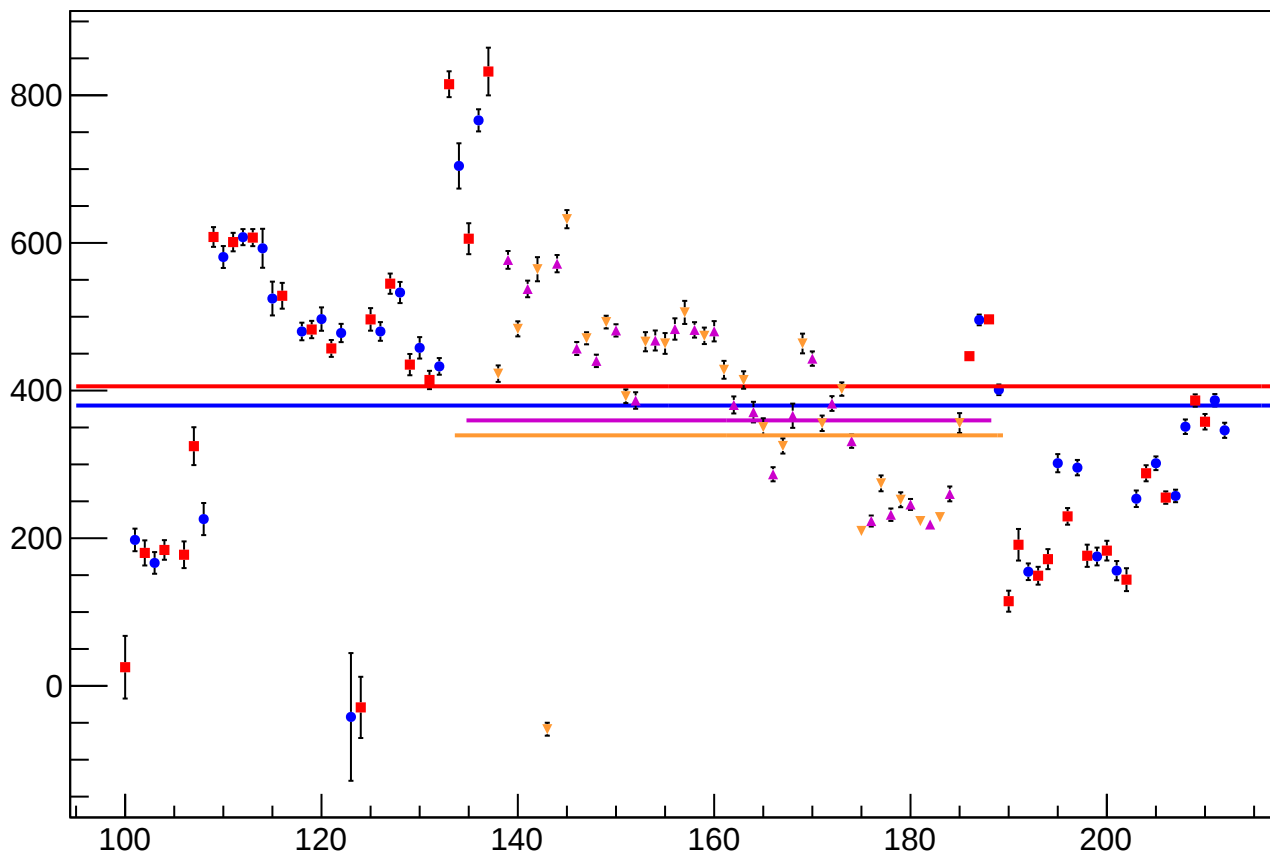
Right: 15.736 ± 1.205 χ^2/NDF : 1457.0/62

In: 5.688 ± 1.165 χ^2/NDF : 1034.5/52

Out: 8.662 ± 1.120 χ^2/NDF : 1120.6/57

All: 7.233 ± 0.807 χ^2/NDF : 2158.5/110

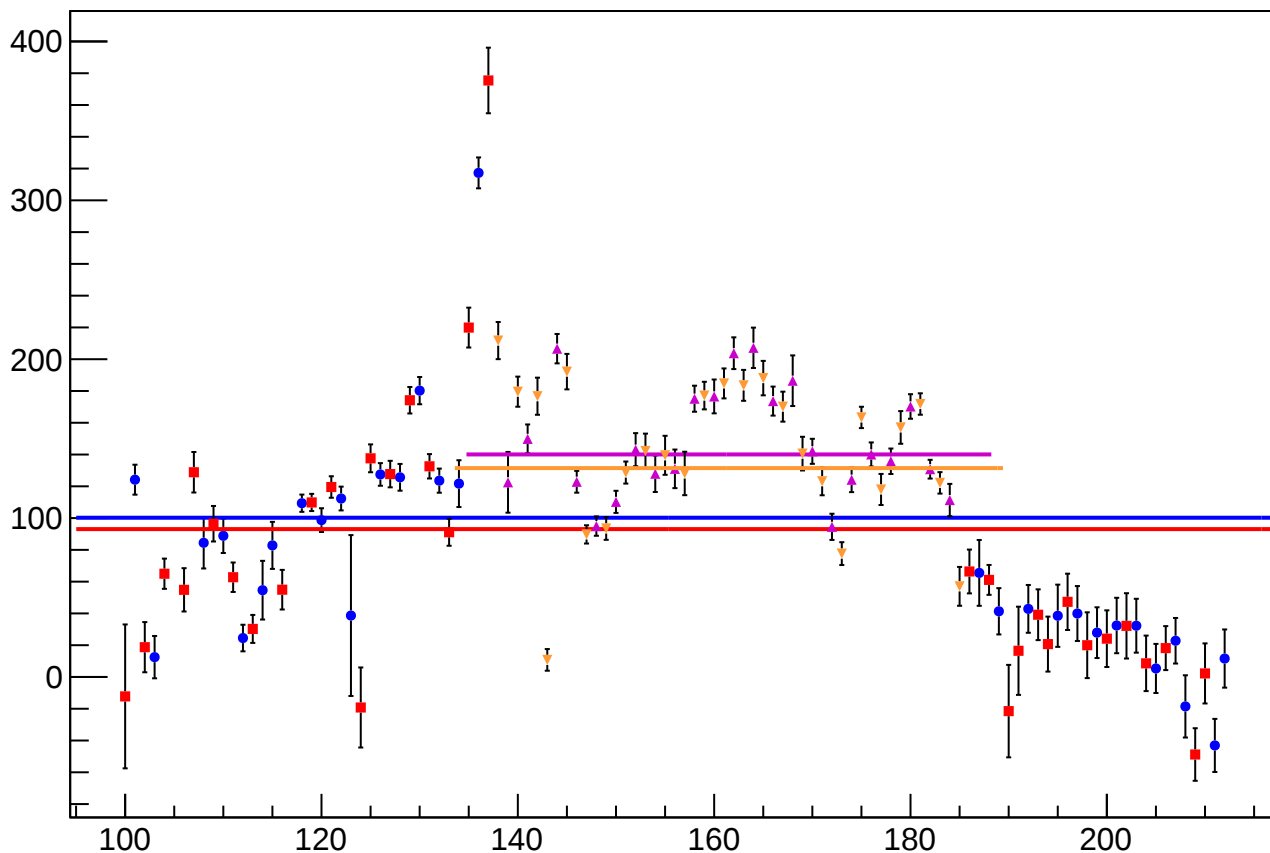
reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 379.735 $\pm$ 2.150 χ^2 /NDF: 4124.9/29
 Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF:5502.5/24
 Right Out: 405.768 $\pm$ 1.919 χ^2 /NDF: 6105.5/32
 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: 394.221 $\pm$ 1.432 χ^2 /NDF: 10312.1/62
 In: 368.960 $\pm$ 1.465 χ^2 /NDF:7570.3/52
 Out: 373.300 $\pm$ 1.372 χ^2 /NDF:12193.3/57
 All: 371.272 $\pm$ 1.002 χ^2 /NDF: 19768.3/110

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 100.230 ± 2.011 $\chi^2/\text{NDF}: 1076.9/29$

Left Out: 131.464 ± 1.728 $\chi^2/\text{NDF}: 809.3/24$

Right Out: 93.068 ± 1.972 $\chi^2/\text{NDF}: 881.0/32$

Left In: 140.069 ± 1.795 $\chi^2/\text{NDF}: 316.5/22$

Left: 135.602 ± 1.245 $\chi^2/\text{NDF}: 1137.8/47$

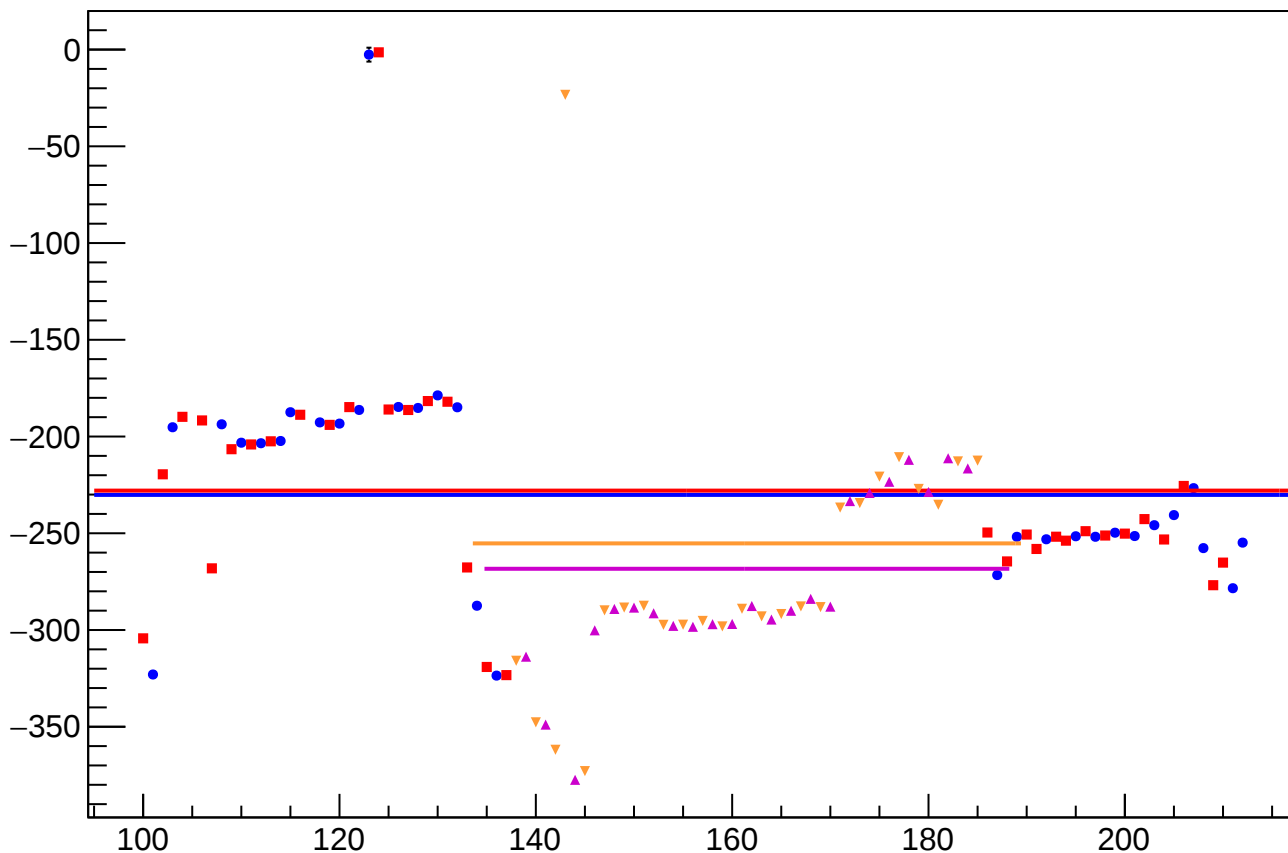
Right: 96.579 ± 1.408 $\chi^2/\text{NDF}: 1964.3/62$

In: 122.400 ± 1.339 $\chi^2/\text{NDF}: 1611.9/52$

Out: 114.791 ± 1.299 $\chi^2/\text{NDF}: 1904.8/57$

All: 118.481 ± 0.933 $\chi^2/\text{NDF}: 3533.3/110$

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -230.165 ± 0.107 $\chi^2/\text{NDF}: 173224.2/29$

Left Out: -255.232 ± 0.082 $\chi^2/\text{NDF}: 728016.7/24$

Right Out: -227.952 ± 0.102 $\chi^2/\text{NDF}: 155187.2/32$

Left In: -268.353 ± 0.084 $\chi^2/\text{NDF}: 262479.3/22$

Left: -261.661 ± 0.059 $\chi^2/\text{NDF}: 1003051.2/47$

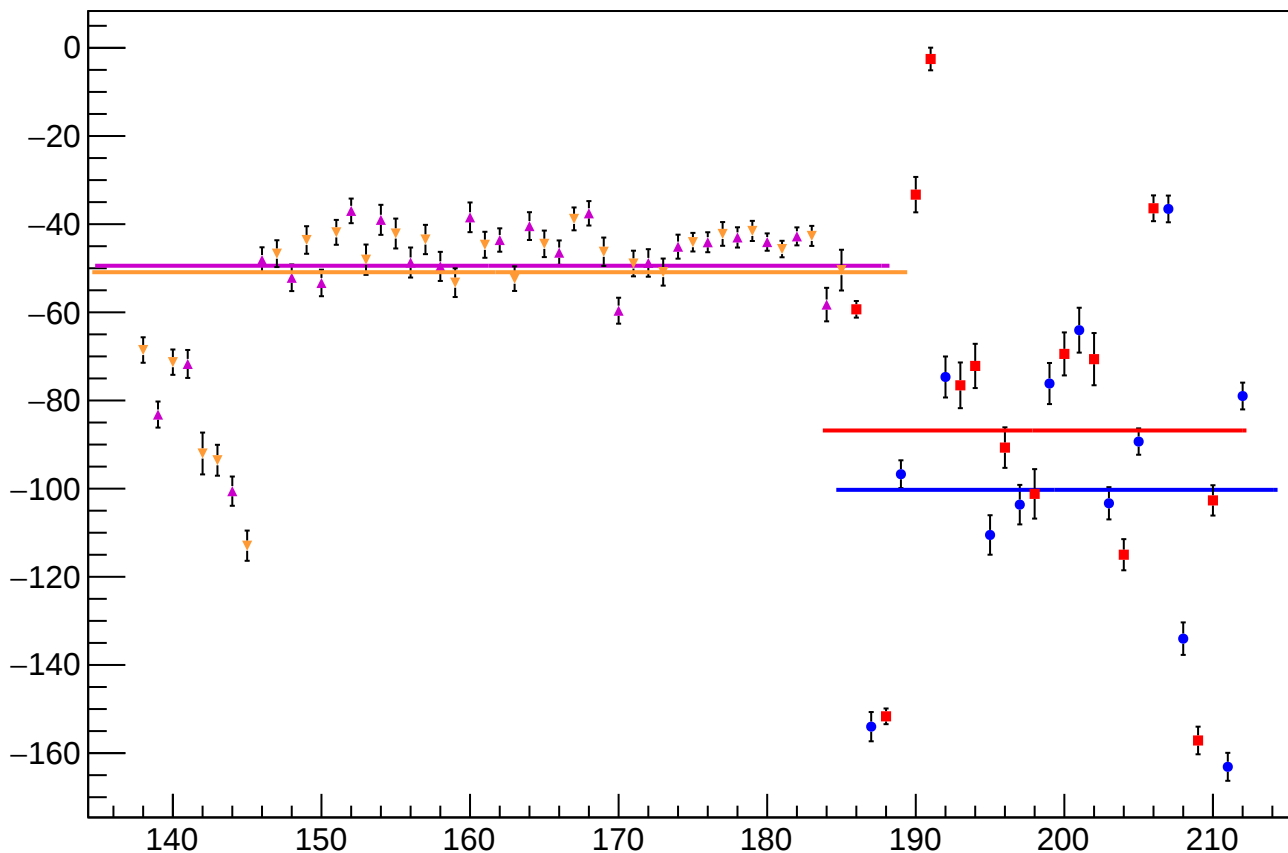
Right: -229.009 ± 0.074 $\chi^2/\text{NDF}: 328637.0/62$

In: -253.791 ± 0.066 $\chi^2/\text{NDF}: 515228.2/52$

Out: -244.508 ± 0.064 $\chi^2/\text{NDF}: 926753.0/57$

All: -249.012 ± 0.046 $\chi^2/\text{NDF}: 1452235.1/111$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -100.272 ± 1.001 $\chi^2/\text{NDF}: 1358.8/12$

Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$

Right Out: -86.805 ± 0.839 $\chi^2/\text{NDF}: 3718.3/13$

Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$

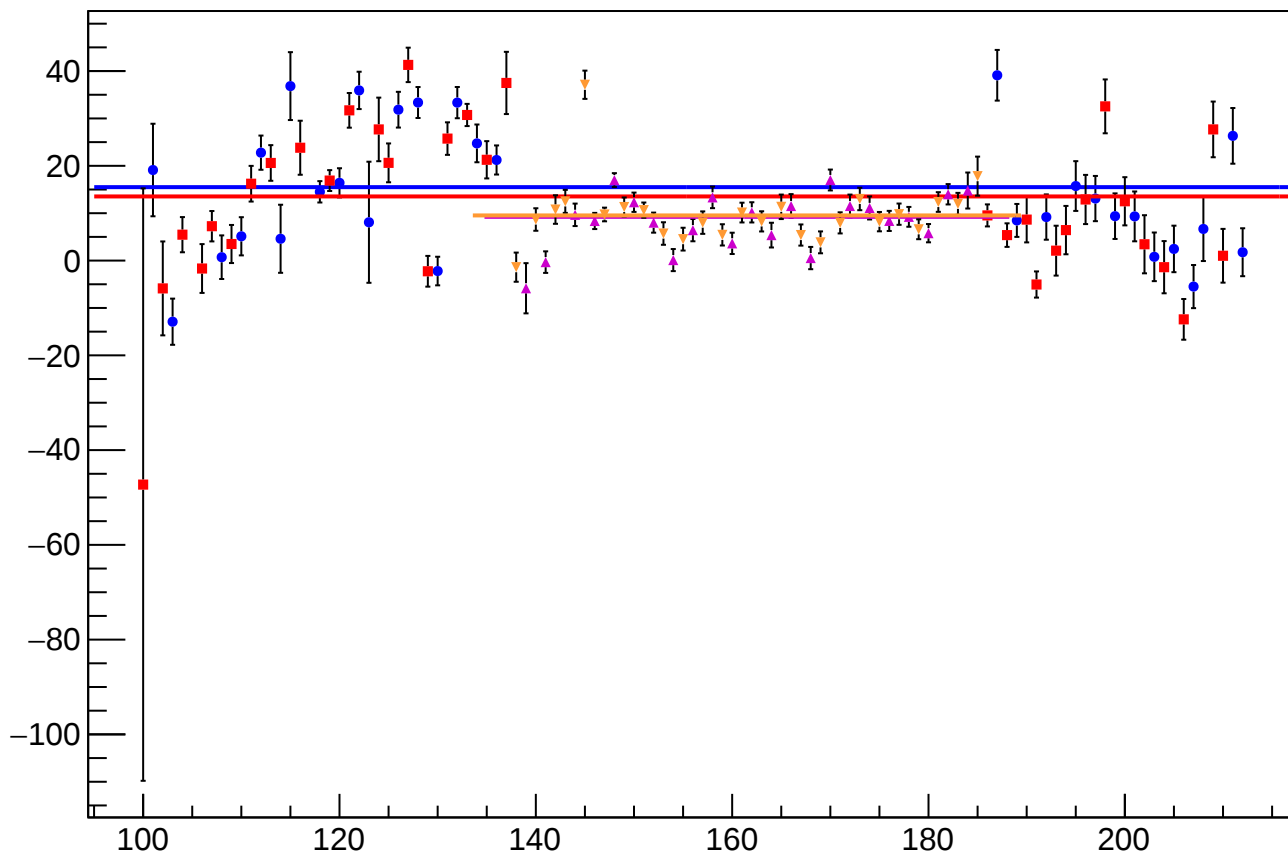
Right: -92.366 ± 0.643 $\chi^2/\text{NDF}: 5183.4/26$

In: -62.348 ± 0.504 $\chi^2/\text{NDF}: 3828.1/35$

Out: -62.308 ± 0.473 $\chi^2/\text{NDF}: 5728.4/38$

All: -62.327 ± 0.345 $\chi^2/\text{NDF}: 9556.5/74$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.501 $\pm$ 0.762 χ^2 /NDF: 292.5/29

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 13.537 $\pm$ 0.672 χ^2 /NDF: 370.9/32

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

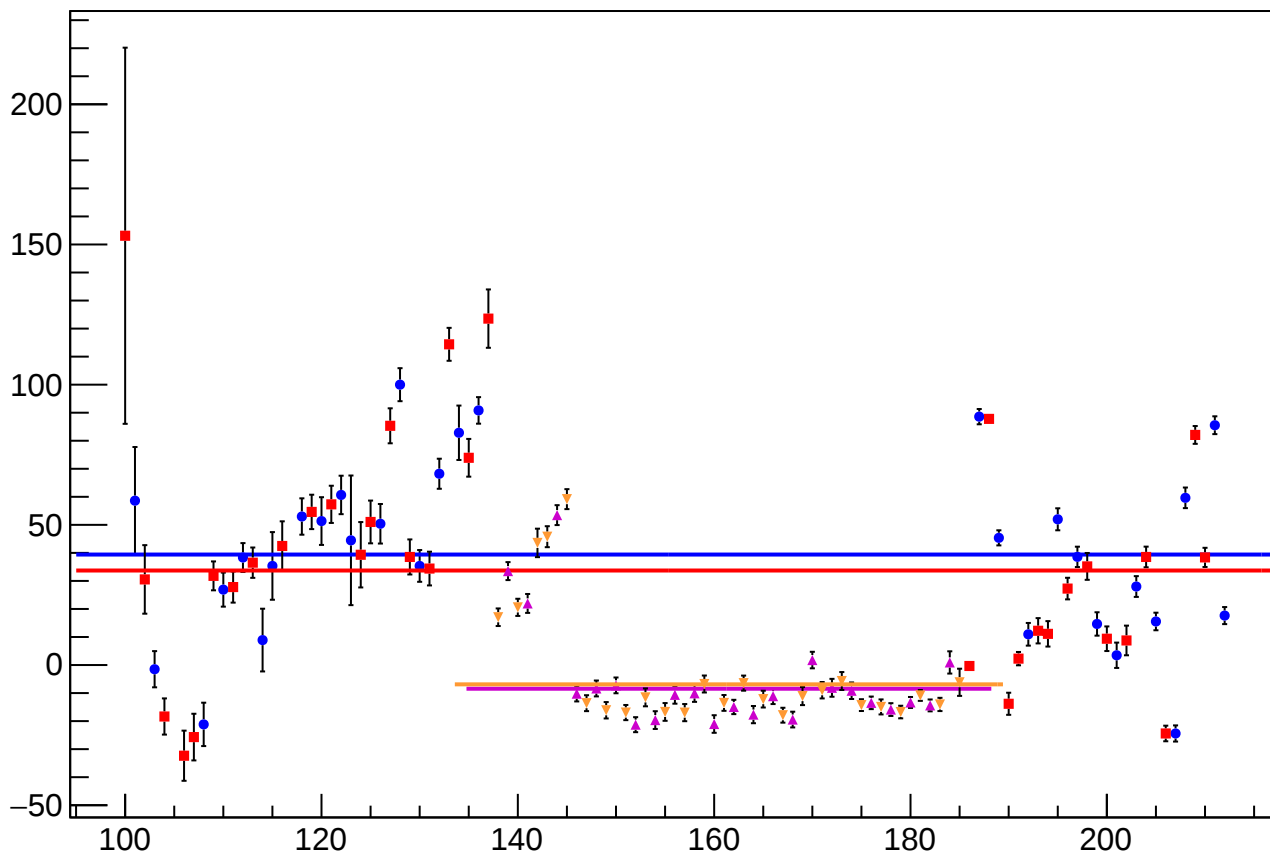
Right: 14.396 $\pm$ 0.504 χ^2 /NDF: 667.1/62

In: 10.916 $\pm$ 0.395 χ^2 /NDF:466.1/52

Out: 10.756 $\pm$ 0.371 χ^2 /NDF:529.9/57

All: 10.831 $\pm$ 0.271 χ^2 /NDF: 996.0/110

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 39.408 ± 0.813 $\chi^2/\text{NDF}: 1744.8/29$

Left Out: -6.888 ± 0.571 $\chi^2/\text{NDF}: 914.2/24$

Right Out: 33.714 ± 0.669 $\chi^2/\text{NDF}: 3596.1/32$

Left In: -8.451 ± 0.580 $\chi^2/\text{NDF}: 688.9/22$

Left: -7.658 ± 0.407 $\chi^2/\text{NDF}: 1606.8/47$

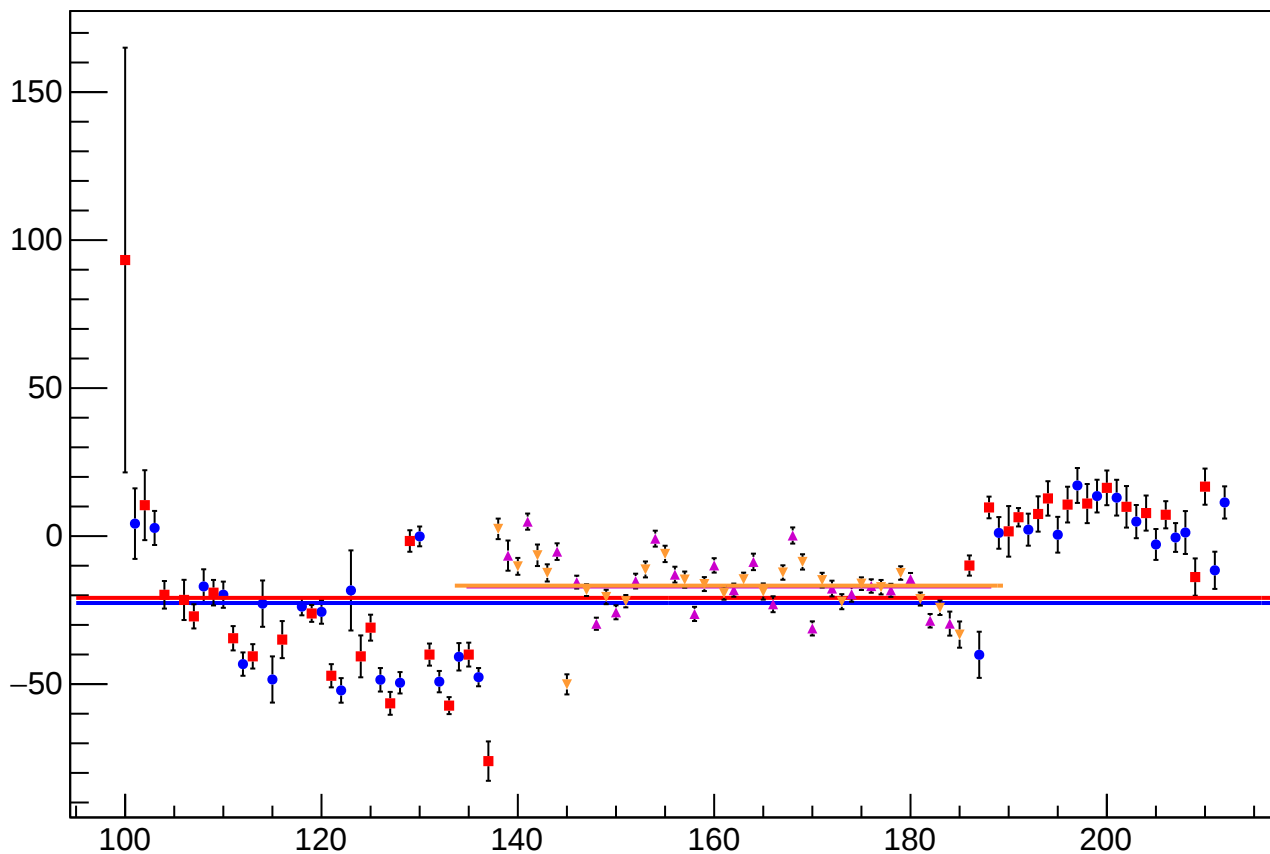
Right: 36.010 ± 0.517 $\chi^2/\text{NDF}: 5370.2/62$

In: 7.671 ± 0.472 $\chi^2/\text{NDF}: 4728.9/52$

Out: 10.235 ± 0.434 $\chi^2/\text{NDF}: 6642.8/57$

All: 9.060 ± 0.320 $\chi^2/\text{NDF}: 11387.7/110$

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -22.601 ± 0.875 $\chi^2/\text{NDF}: 689.8/29$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -20.868 ± 0.796 $\chi^2/\text{NDF}: 933.2/32$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

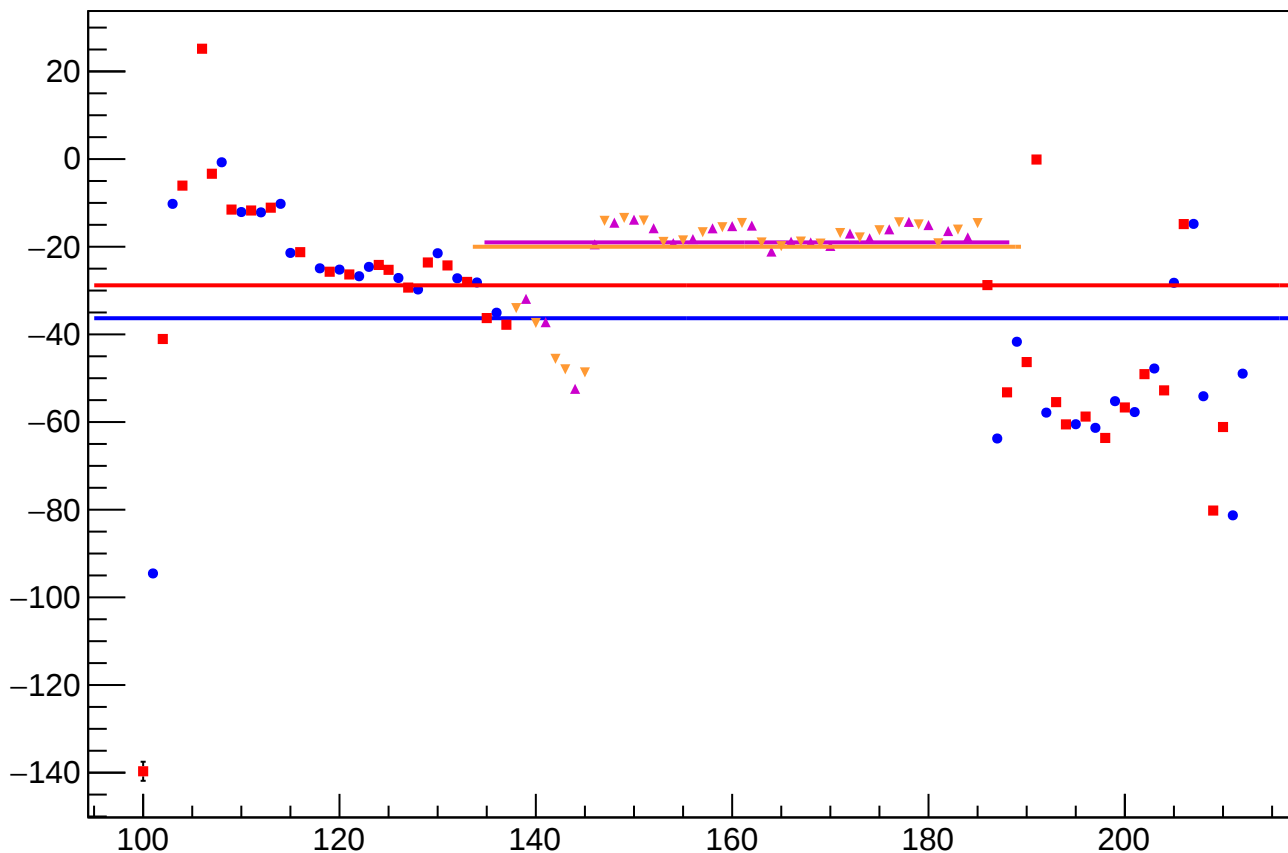
Right: -21.653 ± 0.589 $\chi^2/\text{NDF}: 1625.1/62$

In: -18.486 ± 0.448 $\chi^2/\text{NDF}: 1047.3/52$

Out: -17.925 ± 0.427 $\chi^2/\text{NDF}: 1175.6/57$

All: -18.192 ± 0.309 $\chi^2/\text{NDF}: 2223.8/110$

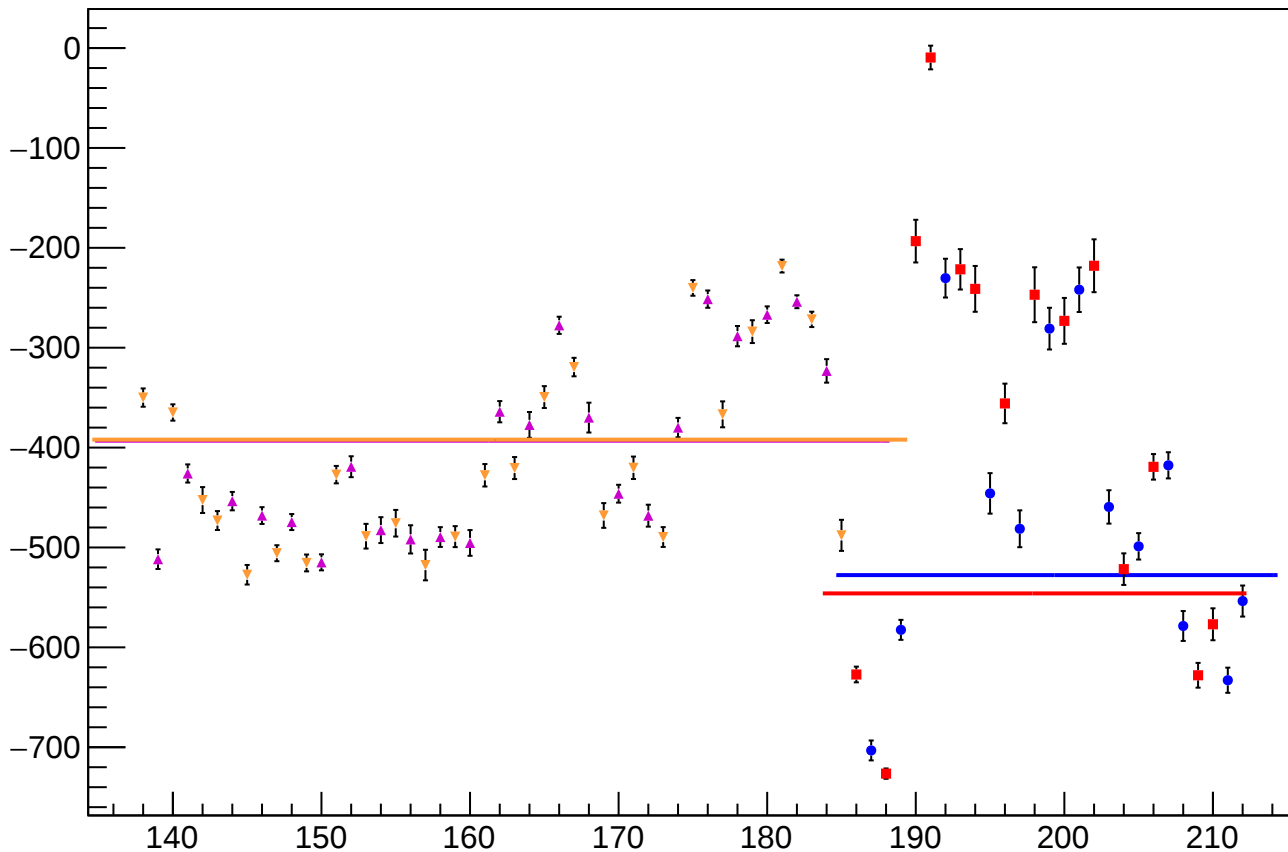
reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -36.312 $\pm$ 0.041 χ^2/NDF : 244747.0/29
 Left Out: -20.006 $\pm$ 0.023 χ^2/NDF :145623.8/24
 Right Out: -28.806 $\pm$ 0.036 χ^2/NDF : 459578.0/32
 Left In: -19.007 $\pm$ 0.024 χ^2/NDF :90873.3/22

Left: -19.514 $\pm$ 0.017 χ^2/NDF : 237400.2/47
 Right: -32.087 $\pm$ 0.027 χ^2/NDF : 722906.3/62
 In: -23.285 $\pm$ 0.021 χ^2/NDF :467692.0/52
 Out: -22.563 $\pm$ 0.020 χ^2/NDF :646658.8/57
 All: -22.907 $\pm$ 0.014 χ^2/NDF : 1114996.5/110

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -527.668 ± 4.002 $\chi^2/\text{NDF}: 1077.3/12$

Left Out: -392.054 ± 1.967 $\chi^2/\text{NDF}: 2717.2/24$

Right Out: -545.982 ± 3.247 $\chi^2/\text{NDF}: 4727.6/13$

Left In: -393.113 ± 2.006 $\chi^2/\text{NDF}: 2253.3/22$

Left: -392.573 ± 1.404 $\chi^2/\text{NDF}: 4970.6/47$

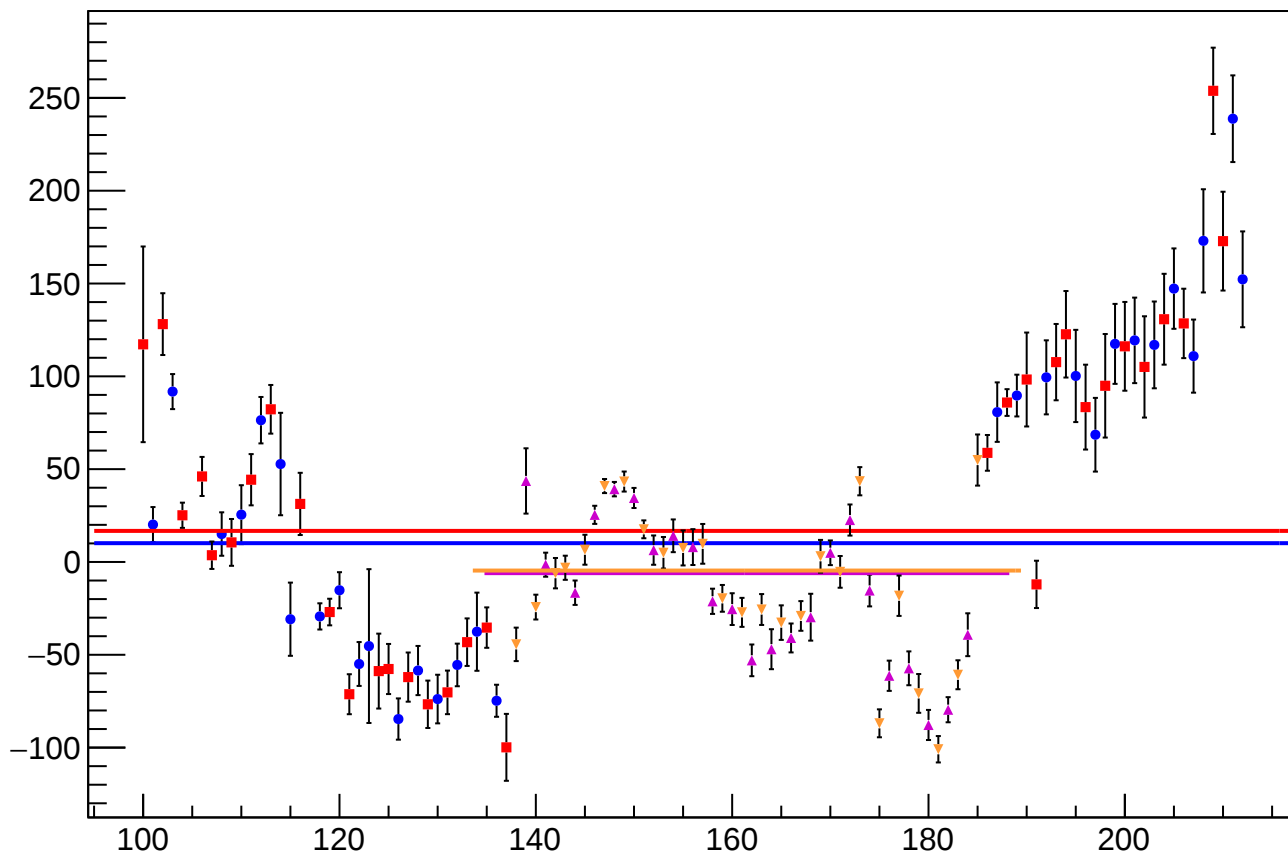
Right: -538.713 ± 2.522 $\chi^2/\text{NDF}: 5817.5/26$

In: -420.117 ± 1.793 $\chi^2/\text{NDF}: 4234.0/35$

Out: -433.362 ± 1.682 $\chi^2/\text{NDF}: 9088.8/38$

All: -427.162 ± 1.227 $\chi^2/\text{NDF}: 13351.9/74$

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.126+/-2.508 χ^2 /NDF: 863.3/29

Left Out: -4.624+/-1.462 χ^2 /NDF: 772.9/24

Right Out: 16.738+/-2.221 χ^2 /NDF: 876.7/32

Left In: -6.019+/-1.516 χ^2 /NDF: 654.1/22

Left: -5.296+/-1.053 χ^2 /NDF: 1427.4/47

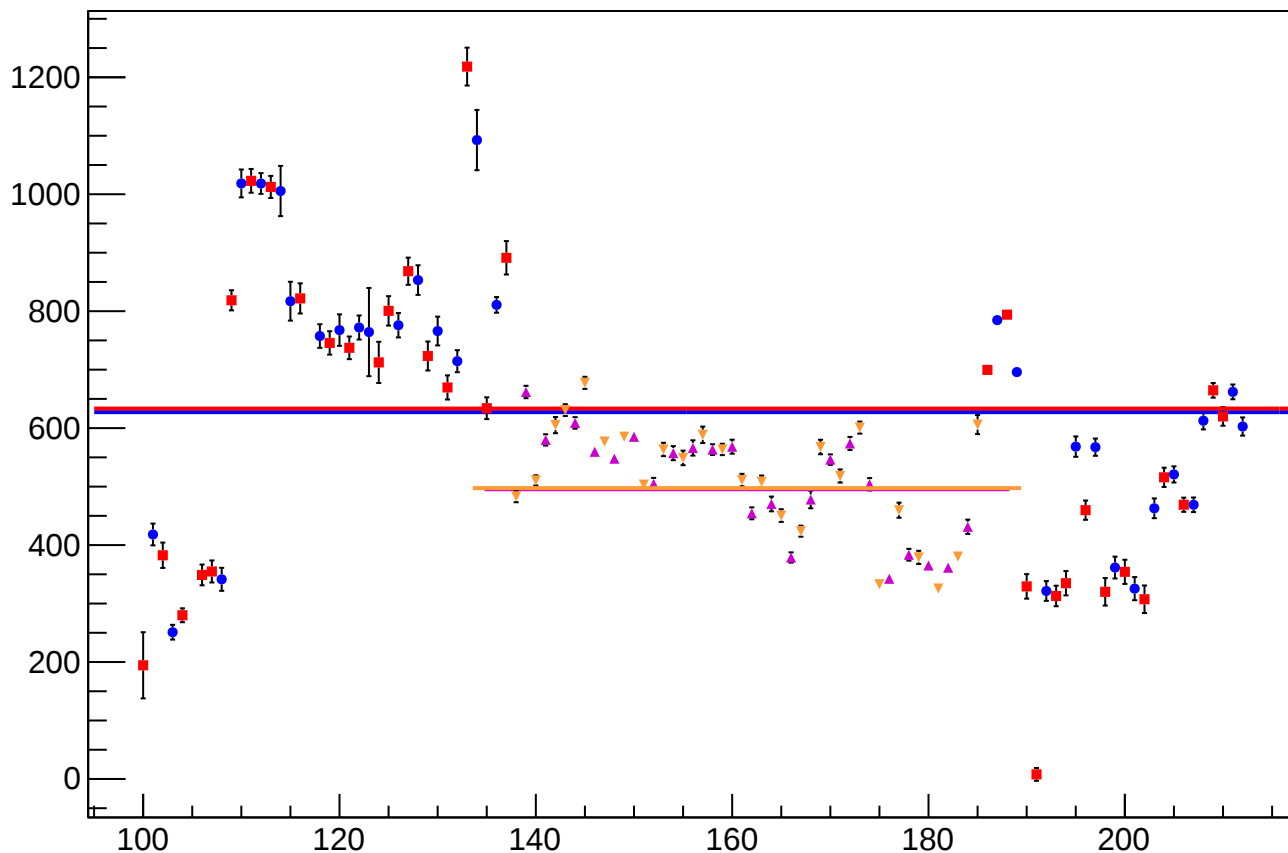
Right: 13.832+/-1.663 χ^2 /NDF: 1743.9/62

In: -1.698+/-1.298 χ^2 /NDF: 1547.8/52

Out: 1.835+/-1.221 χ^2 /NDF: 1714.1/57

All: 0.175+/-0.889 χ^2 /NDF: 3265.8/110

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 627.306+/-2.947 χ^2/NDF : 4222.9/29

Left Out: 497.381+/-1.966 χ^2/NDF :2614.6/24

Right Out: 633.477+/-2.398 χ^2/NDF : 9628.8/32

Left In: 495.454+/-1.992 χ^2/NDF :2253.8/22

Left: 496.430+/-1.399 χ^2/NDF : 4868.9/47

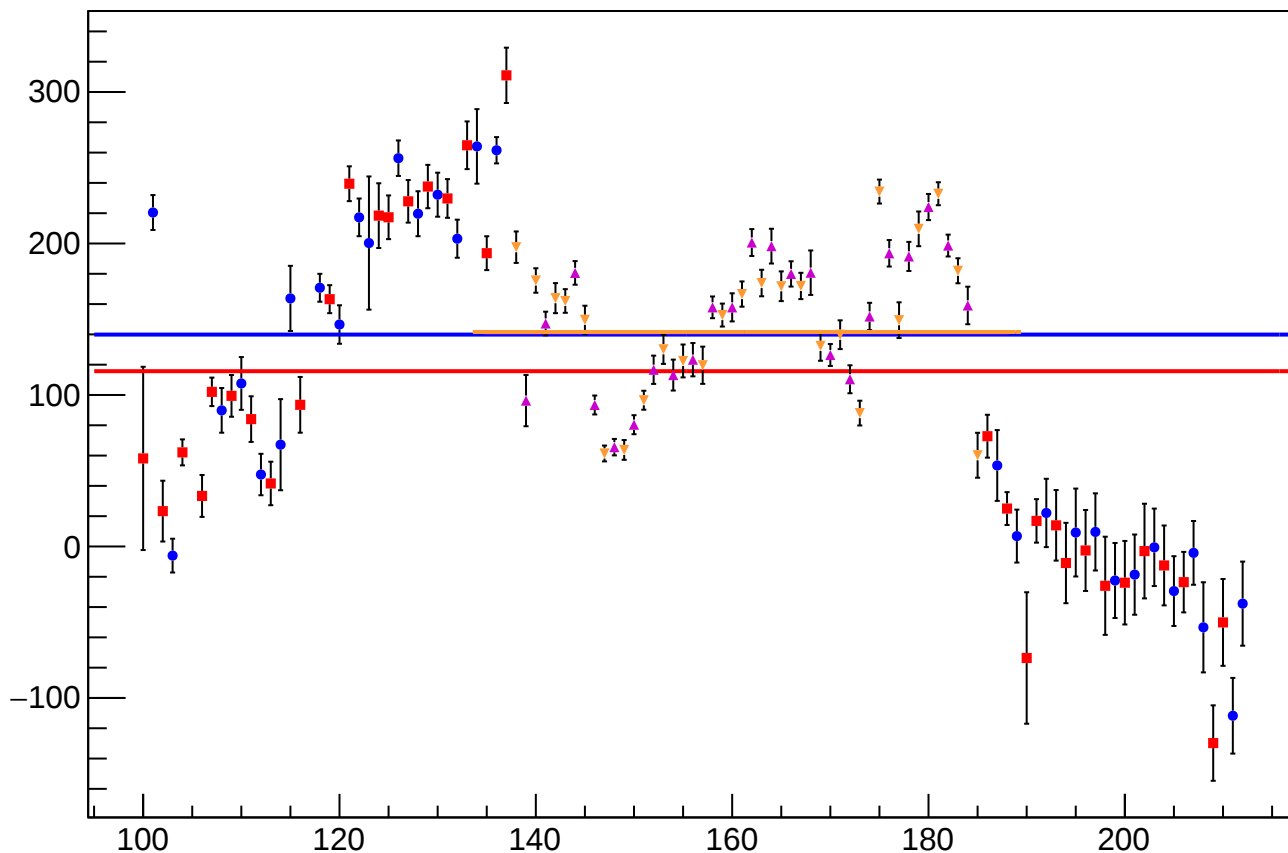
Right: 631.018+/-1.860 χ^2/NDF : 13854.4/62

In: 536.812+/-1.650 χ^2/NDF :7850.8/52

Out: 552.074+/-1.520 χ^2/NDF :14169.4/57

All: 545.068+/-1.118 χ^2/NDF : 22066.4/110

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 139.869 $\pm$ 2.917 χ^2 /NDF: 1295.8/29

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 115.712 $\pm$ 2.659 χ^2 /NDF: 1285.4/32

Left In: 141.360 $\pm$ 1.748 χ^2 /NDF:741.2/22

Left: 141.478 $\pm$ 1.218 χ^2 /NDF: 1700.8/47

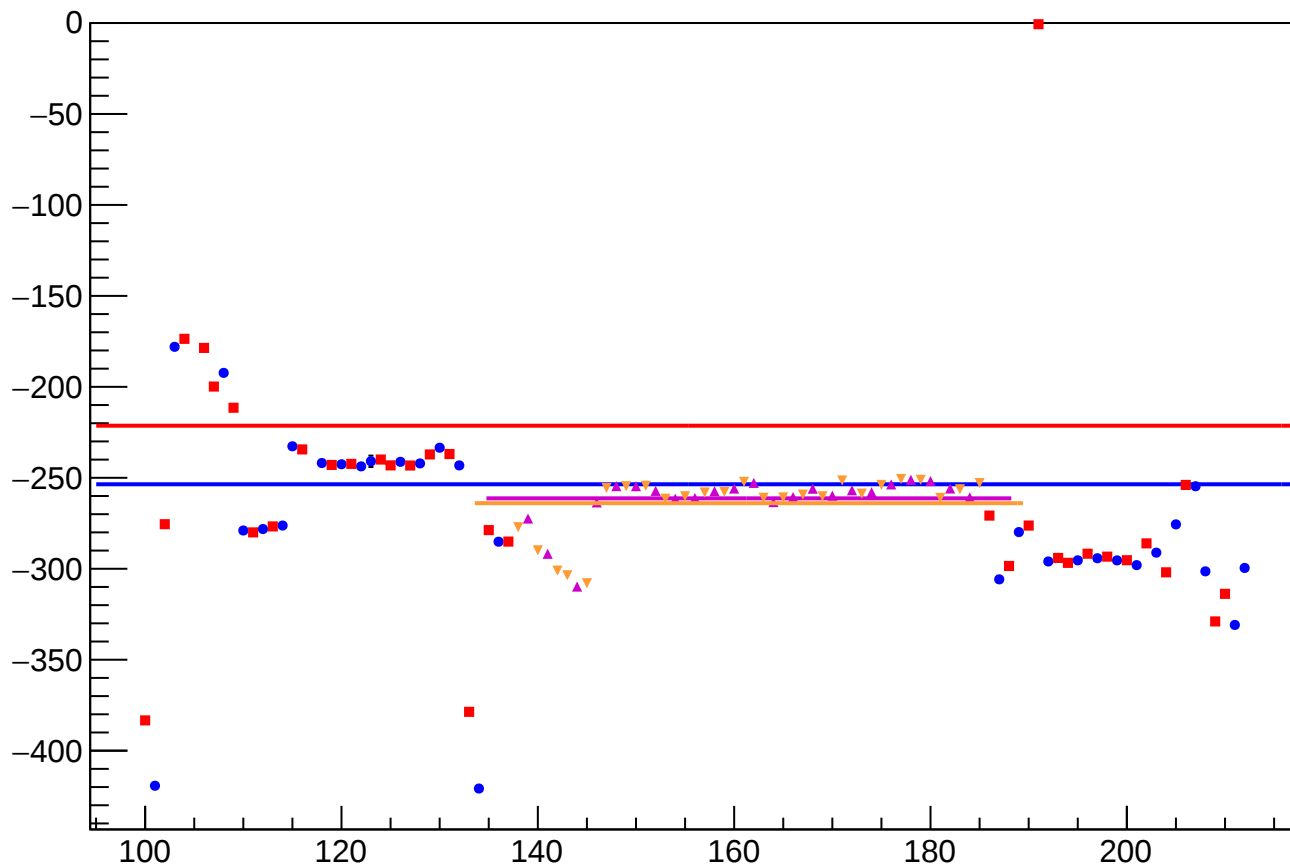
Right: 126.676 $\pm$ 1.965 χ^2 /NDF: 2618.7/62

In: 140.966 $\pm$ 1.499 χ^2 /NDF:2037.3/52

Out: 134.092 $\pm$ 1.431 χ^2 /NDF:2312.2/57

All: 137.370 $\pm$ 1.035 χ^2 /NDF: 4360.5/110

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -253.551+/-0.135 χ^2 /NDF: 202814.2/29

Left Out: -263.943+/-0.081 χ^2 /NDF:39085.0/24

Right Out: -221.360+/-0.122 χ^2 /NDF: 506787.2/32

Left In: -261.286+/-0.082 χ^2 /NDF:23348.4/22

Left: -262.627+/-0.058 χ^2 /NDF: 62963.4/47

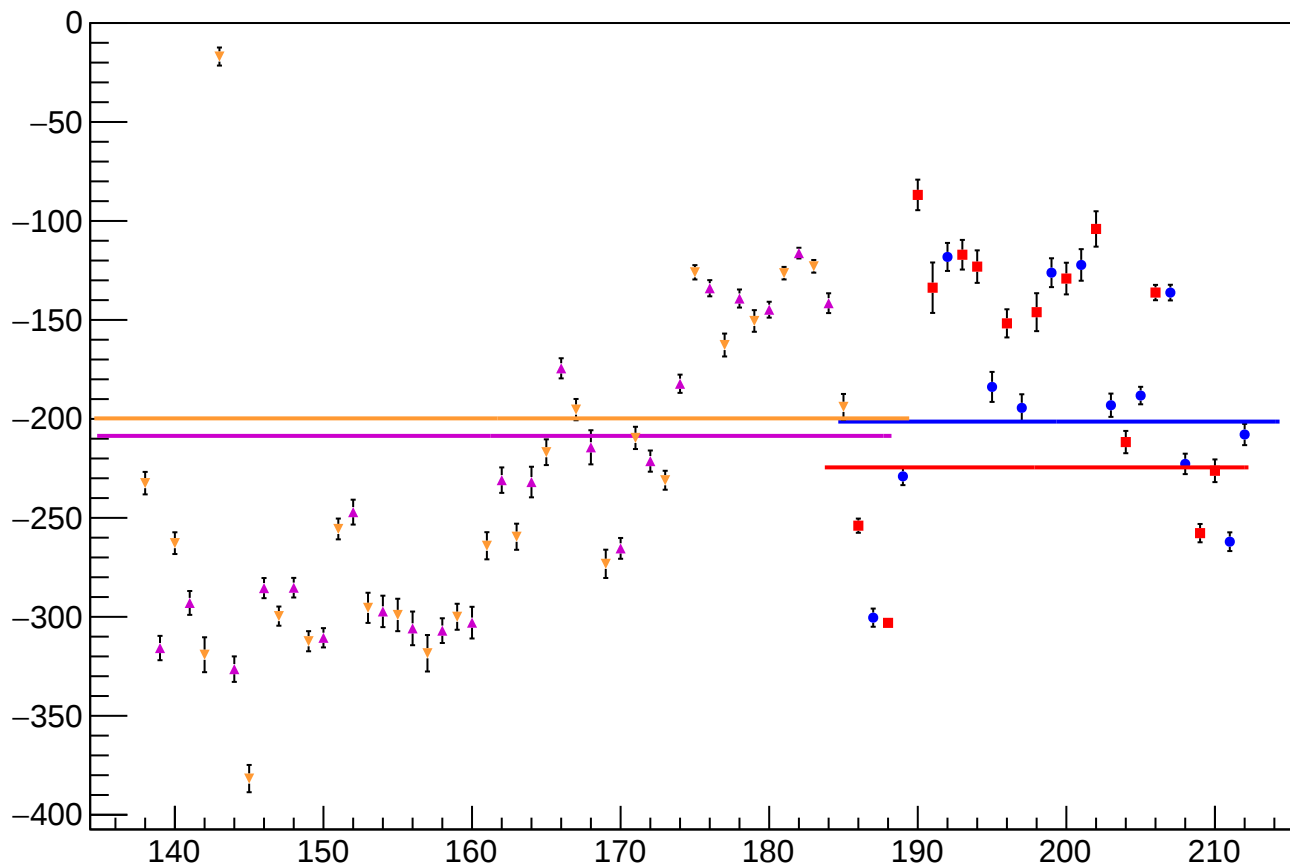
Right: -235.767+/-0.091 χ^2 /NDF: 740833.7/62

In: -259.211+/-0.070 χ^2 /NDF:228551.2/52

Out: -250.839+/-0.068 χ^2 /NDF:630408.8/57

All: -254.872+/-0.049 χ^2 /NDF: 866349.4/110

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -201.360 ± 1.487 $\chi^2/\text{NDF}: 1319.0/12$

Left Out: -199.741 ± 1.061 $\chi^2/\text{NDF}: 6361.5/24$

Right Out: -224.496 ± 1.354 $\chi^2/\text{NDF}: 2964.7/13$

Left In: -208.579 ± 1.082 $\chi^2/\text{NDF}: 4805.1/22$

Left: -204.073 ± 0.758 $\chi^2/\text{NDF}: 11200.6/47$

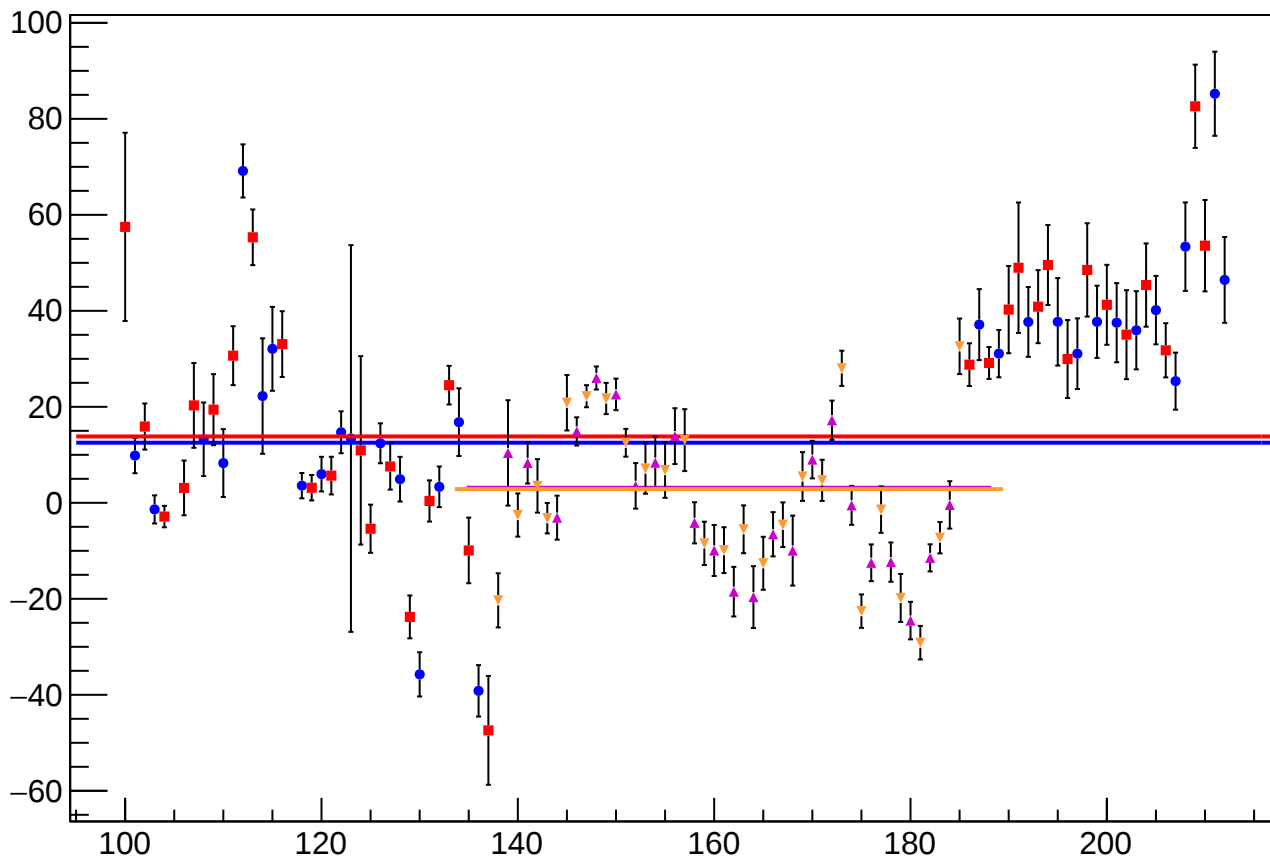
Right: -214.006 ± 1.001 $\chi^2/\text{NDF}: 4416.0/26$

In: -206.079 ± 0.875 $\chi^2/\text{NDF}: 6139.5/35$

Out: -209.159 ± 0.835 $\chi^2/\text{NDF}: 9533.2/38$

All: -207.691 ± 0.604 $\chi^2/\text{NDF}: 15679.3/74$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.527 $\pm$ 0.973 χ^2 /NDF: 561.3/29

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF: 419.8/24

Right Out: 13.829 $\pm$ 0.919 χ^2 /NDF: 513.1/32

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

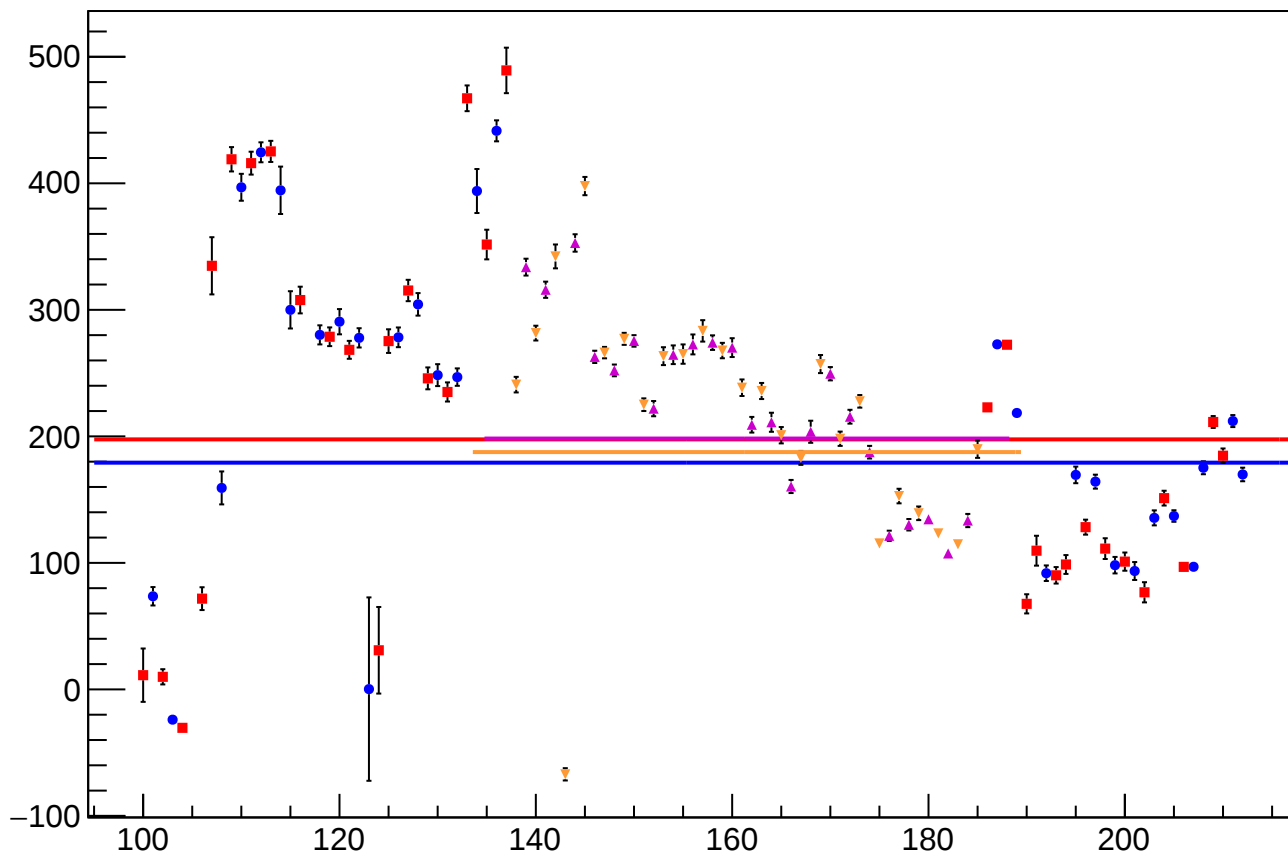
Right: 13.215 $\pm$ 0.668 χ^2 /NDF: 1075.3/62

In: 7.239 $\pm$ 0.643 χ^2 /NDF: 933.6/52

Out: 7.719 $\pm$ 0.612 χ^2 /NDF: 1012.4/57

All: 7.491 $\pm$ 0.443 χ^2 /NDF: 1946.3/110

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 179.212 $\pm$ 1.128 χ^2 /NDF: 8737.5/29

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 197.614 $\pm$ 1.005 χ^2 /NDF: 12144.7/32

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

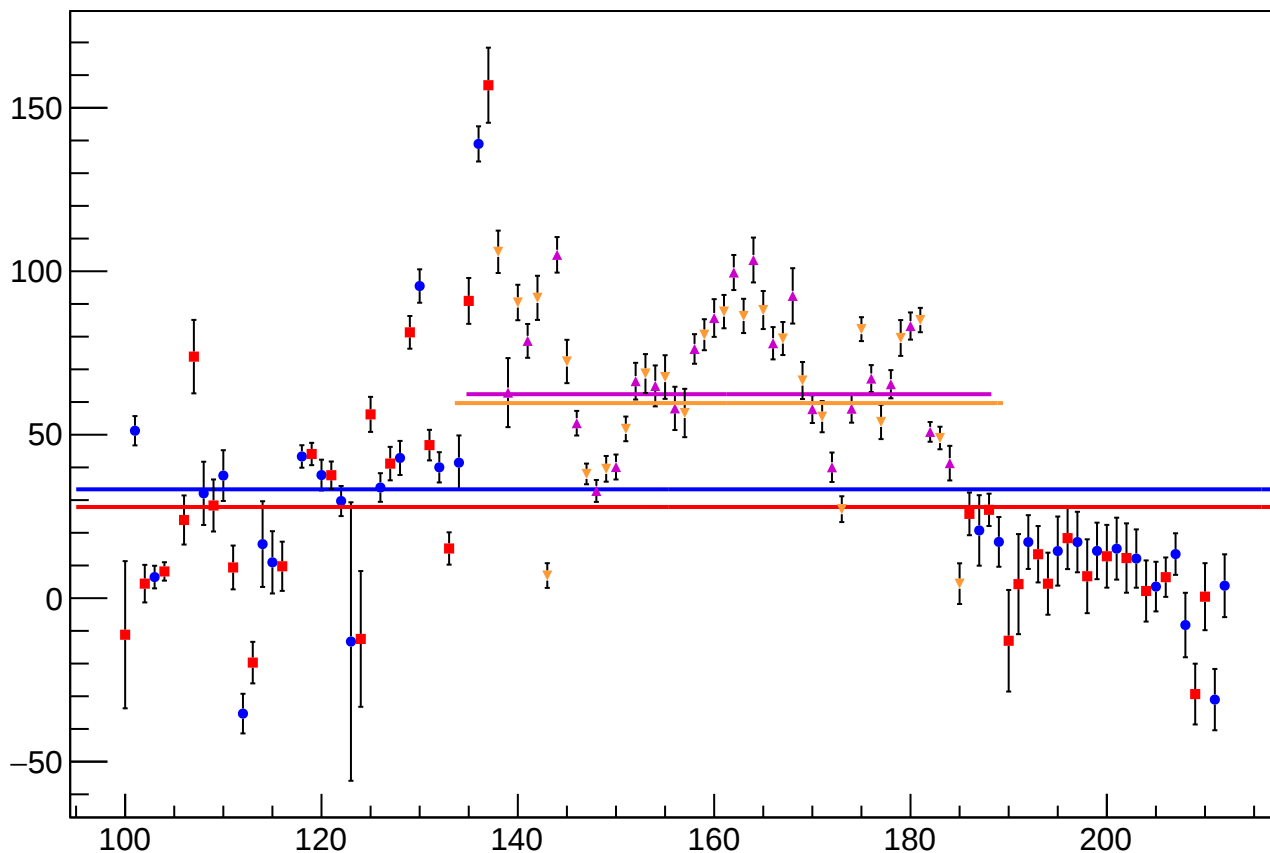
Right: 189.472 $\pm$ 0.751 χ^2 /NDF: 21030.5/62

In: 189.144 $\pm$ 0.781 χ^2 /NDF: 13401.9/52

Out: 192.883 $\pm$ 0.731 χ^2 /NDF: 19273.8/57

All: 191.136 $\pm$ 0.534 χ^2 /NDF: 32687.9/110

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 33.295 $\pm$ 1.134 χ^2 /NDF: 892.1/29

Left Out: 59.682 $\pm$ 0.941 χ^2 /NDF: 757.6/24

Right Out: 27.891 $\pm$ 1.095 χ^2 /NDF: 658.6/32

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

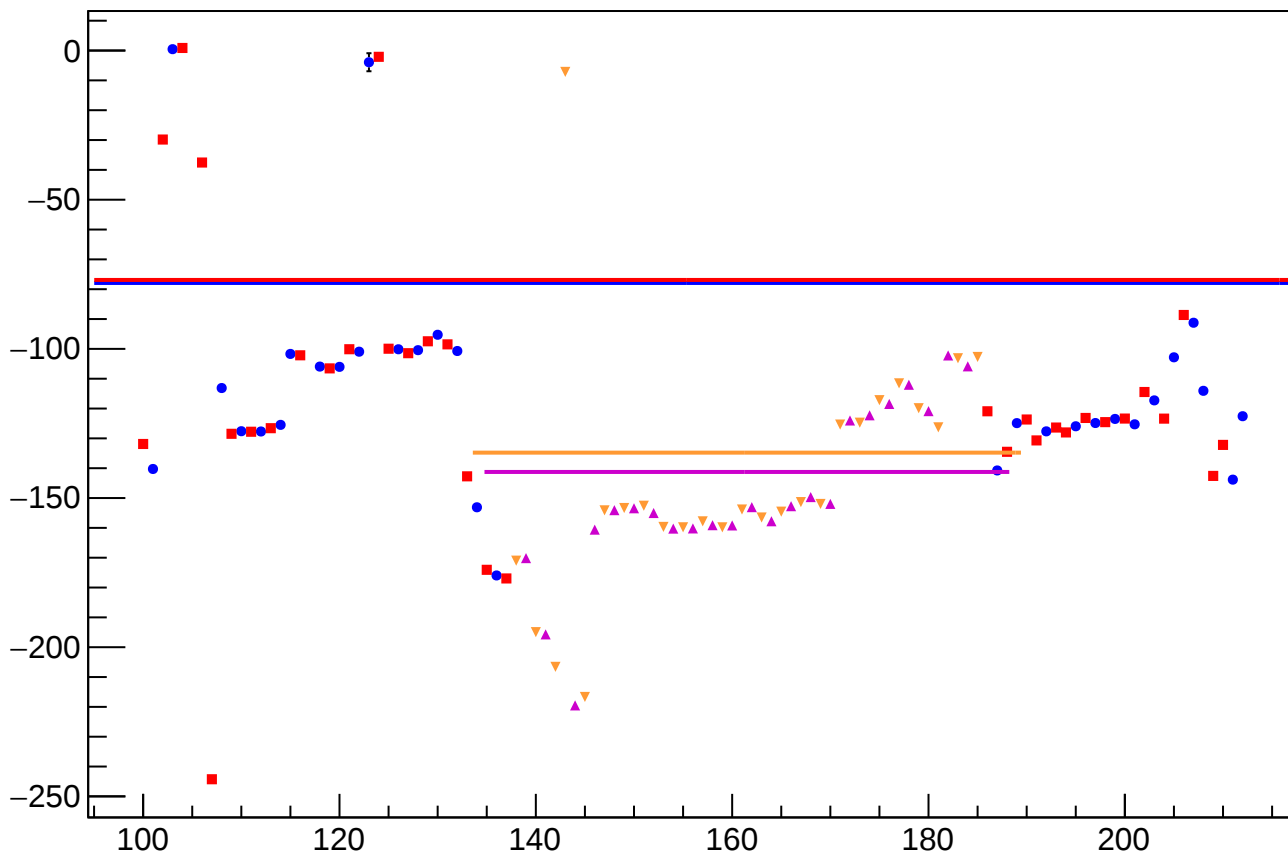
Right: 30.500 $\pm$ 0.788 χ^2 /NDF: 1562.4/62

In: 50.038 $\pm$ 0.739 χ^2 /NDF: 1677.5/52

Out: 46.187 $\pm$ 0.714 χ^2 /NDF: 1900.9/57

All: 48.046 $\pm$ 0.513 χ^2 /NDF: 3592.5/110

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -77.904 ± 0.051 $\chi^2/\text{NDF}: 1446713.8/29$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -76.897 ± 0.049 $\chi^2/\text{NDF}: 1433041.1/32$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

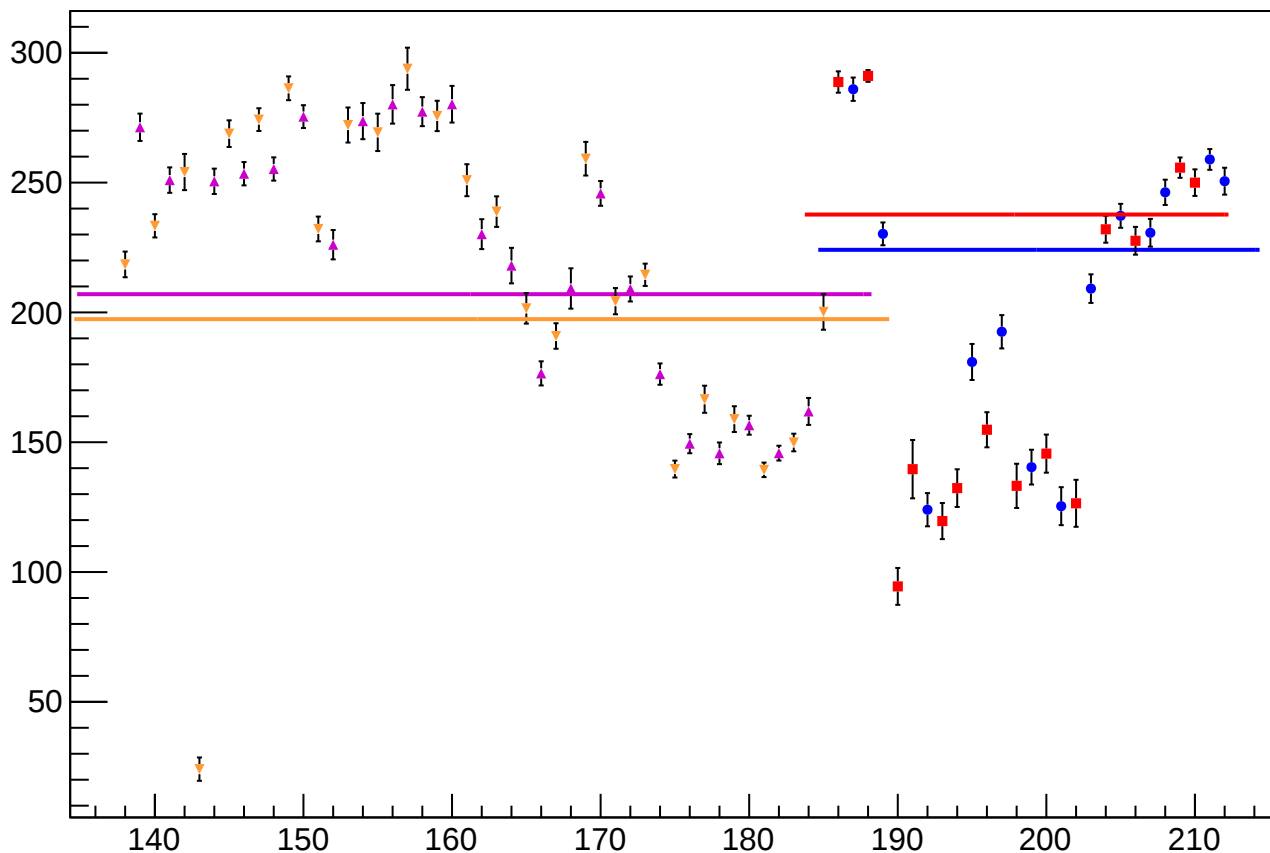
Right: -77.386 ± 0.035 $\chi^2/\text{NDF}: 2879958.1/62$

In: -113.104 ± 0.034 $\chi^2/\text{NDF}: 2663375.5/52$

Out: -108.750 ± 0.033 $\chi^2/\text{NDF}: 2998555.9/57$

All: -110.878 ± 0.024 $\chi^2/\text{NDF}: 5670434.6/111$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Left: 202.077 $\pm$ 0.690 χ^2/NDF : 7044.1/47

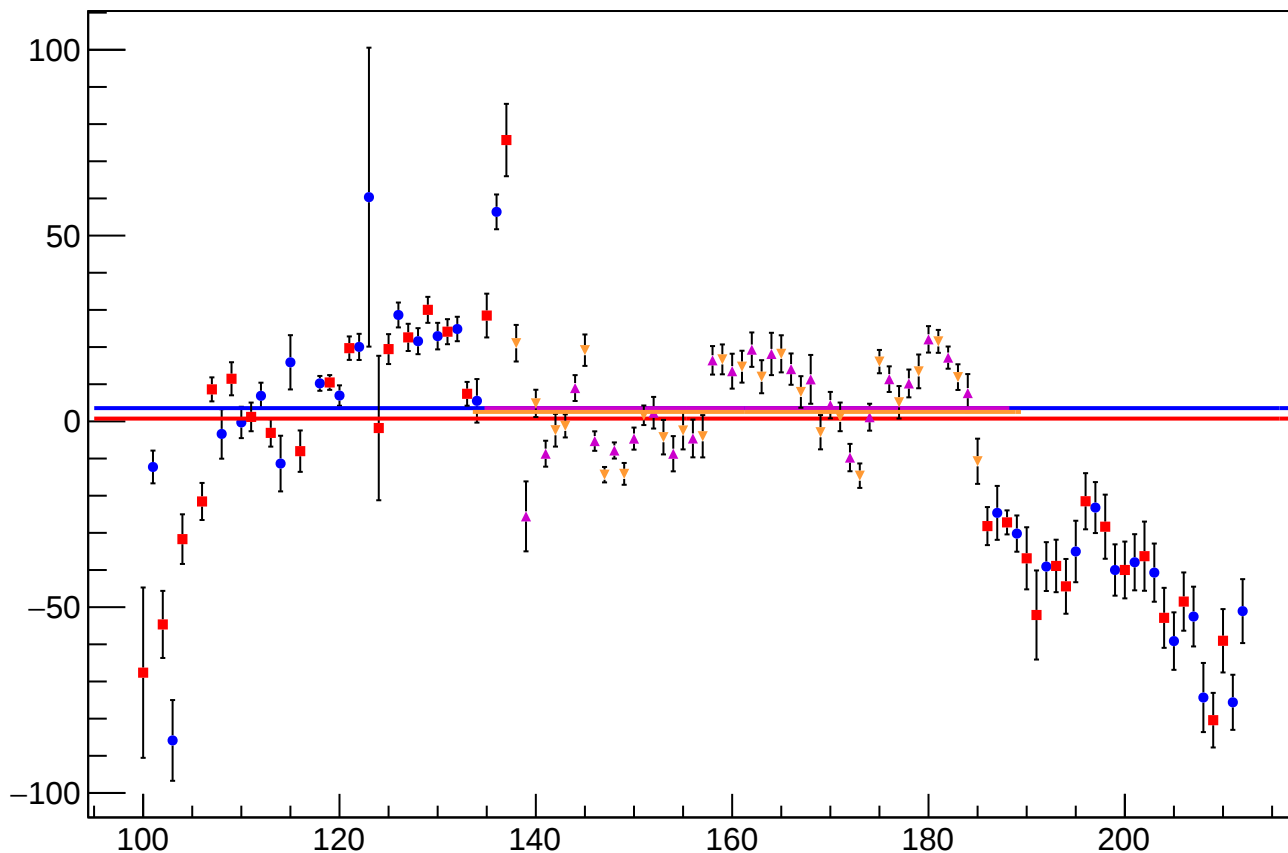
Right: 231.515 $\pm$ 0.985 χ^2/NDF : 3350.7/26

In: 212.397 $\pm$ 0.820 χ^2/NDF : 3682.3/35

Out: 211.198 $\pm$ 0.781 χ^2/NDF : 7310.1/38

All: 211.768 $\pm$ 0.565 χ^2/NDF : 10993.5/74

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.567 ± 0.849 χ^2/NDF : 991.0/29

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: 0.750 ± 0.813 χ^2/NDF : 961.0/32

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

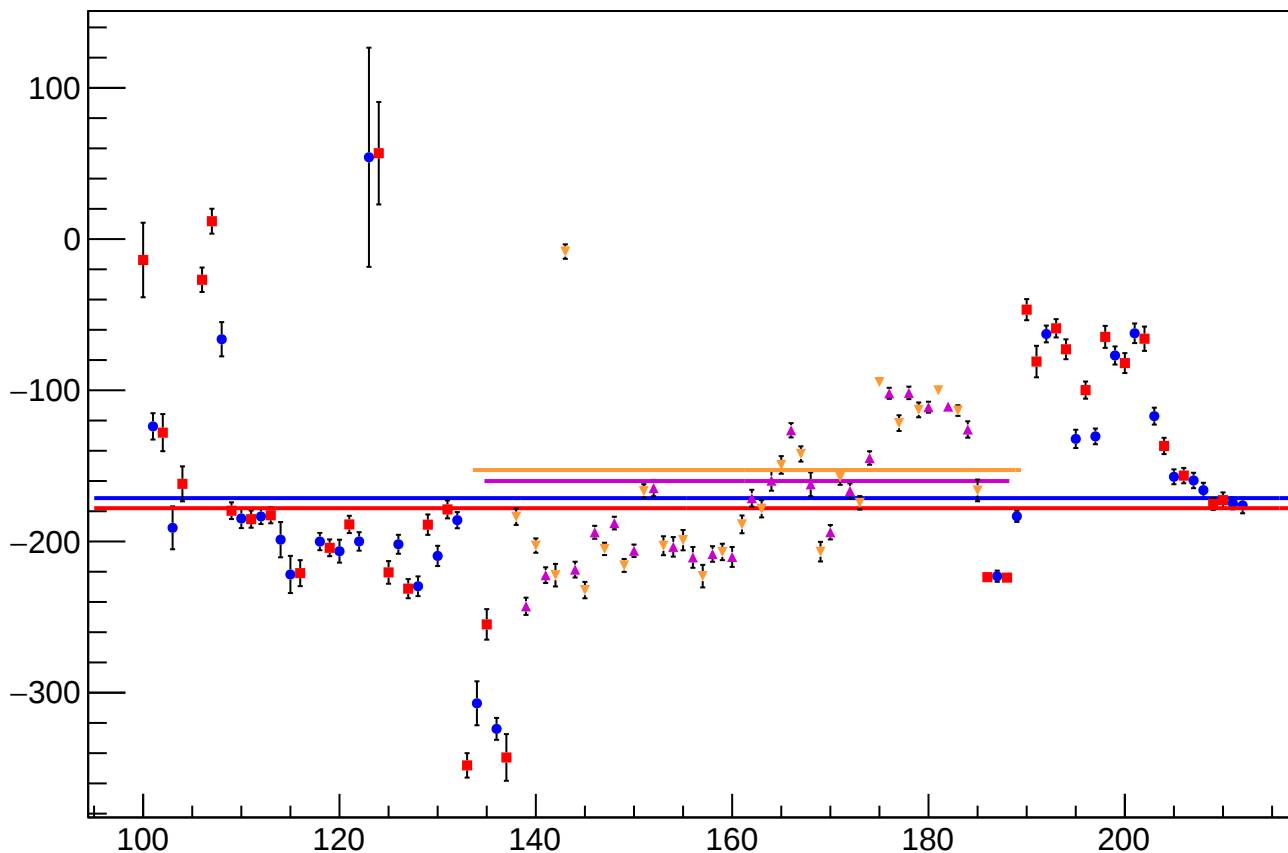
Right: 2.098 ± 0.587 χ^2/NDF : 1957.7/62

In: 3.563 ± 0.572 χ^2/NDF : 1183.0/52

Out: 1.732 ± 0.548 χ^2/NDF : 1239.1/57

All: 2.608 ± 0.396 χ^2/NDF : 2427.4/110

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.321 ± 1.081 χ^2/NDF : 2233.7/29

Left Out: -152.738 ± 0.967 χ^2/NDF : 3077.8/24

Right Out: -177.985 ± 0.963 χ^2/NDF : 4580.1/32

Left In: -160.021 ± 0.989 χ^2/NDF : 2024.4/22

Left: -156.299 ± 0.691 χ^2/NDF : 5129.9/47

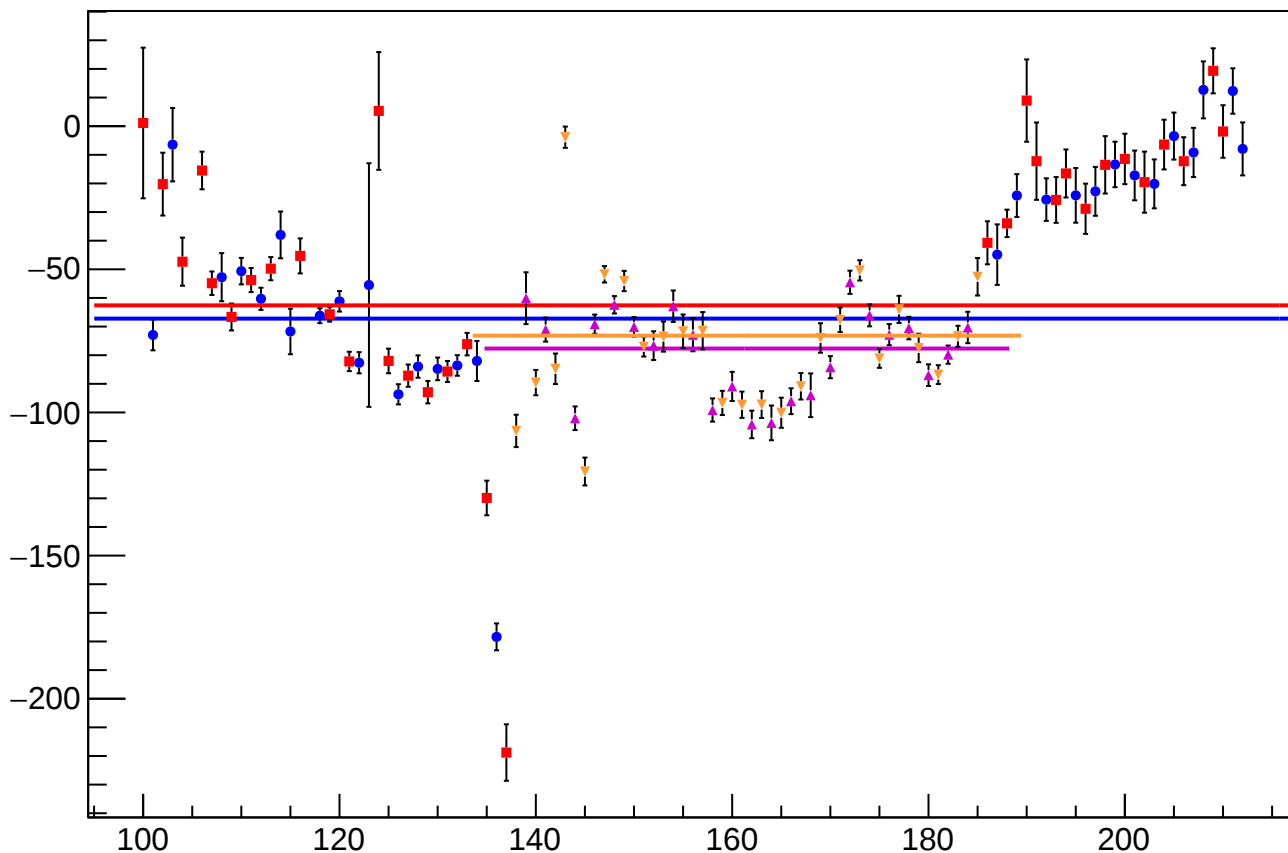
Right: -175.035 ± 0.719 χ^2/NDF : 6834.9/62

In: -165.169 ± 0.730 χ^2/NDF : 4317.6/52

Out: -165.409 ± 0.682 χ^2/NDF : 8000.0/57

All: -165.297 ± 0.498 χ^2/NDF : 12317.6/110

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -67.220 ± 0.985 χ^2/NDF : 1292.6/29

Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24

Right Out: -62.592 ± 0.953 χ^2/NDF : 1147.3/32

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

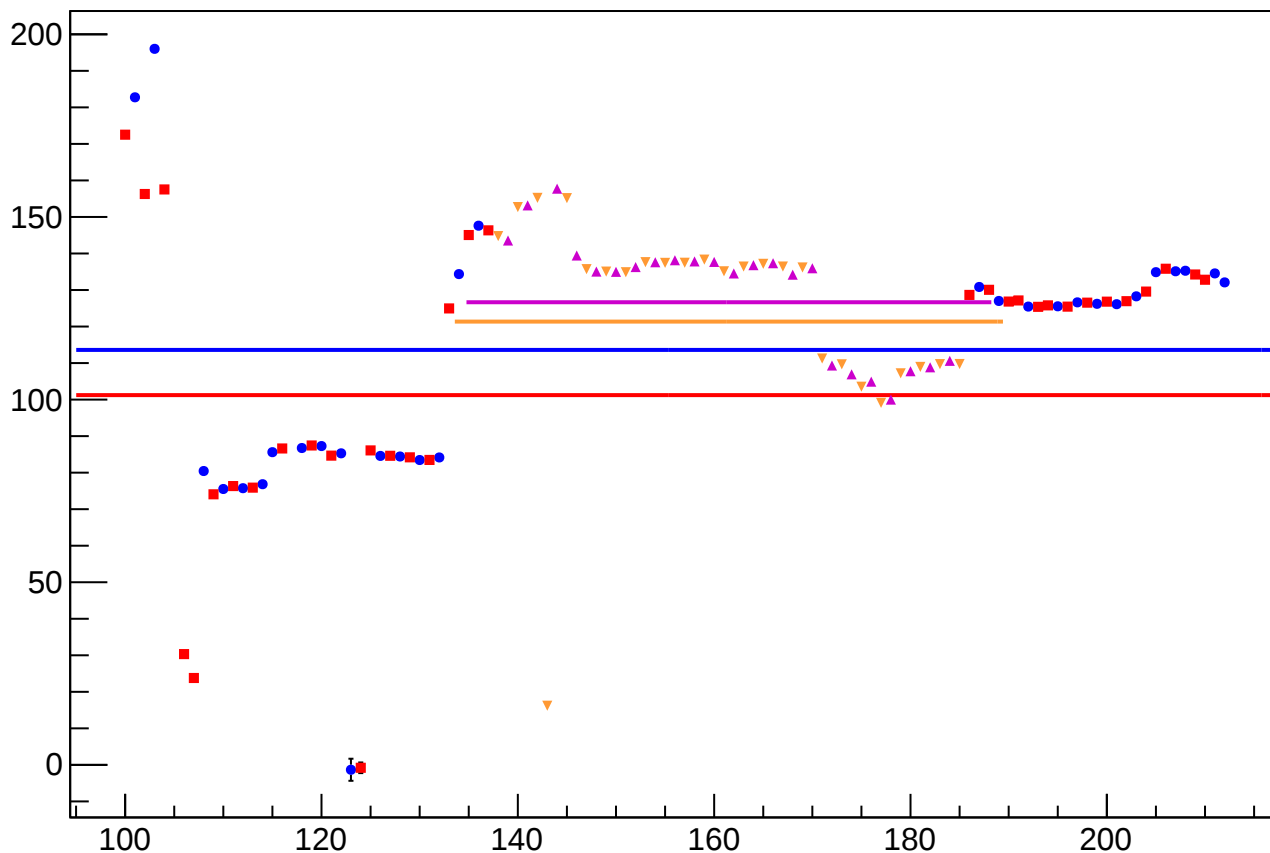
Right: -64.828 ± 0.685 χ^2/NDF : 2451.4/62

In: -73.022 ± 0.658 χ^2/NDF : 1603.4/52

Out: -68.470 ± 0.635 χ^2/NDF : 2004.4/57

All: -70.666 ± 0.457 χ^2/NDF : 3632.6/110

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 113.602 $\pm$ 0.055 χ^2 /NDF: 324354.5/29

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 101.227 $\pm$ 0.050 χ^2 /NDF: 595275.6/32

Left In: 126.653 $\pm$ 0.041 χ^2 /NDF: 163046.1/22

Left: 123.954 $\pm$ 0.029 χ^2 /NDF: 653496.6/47

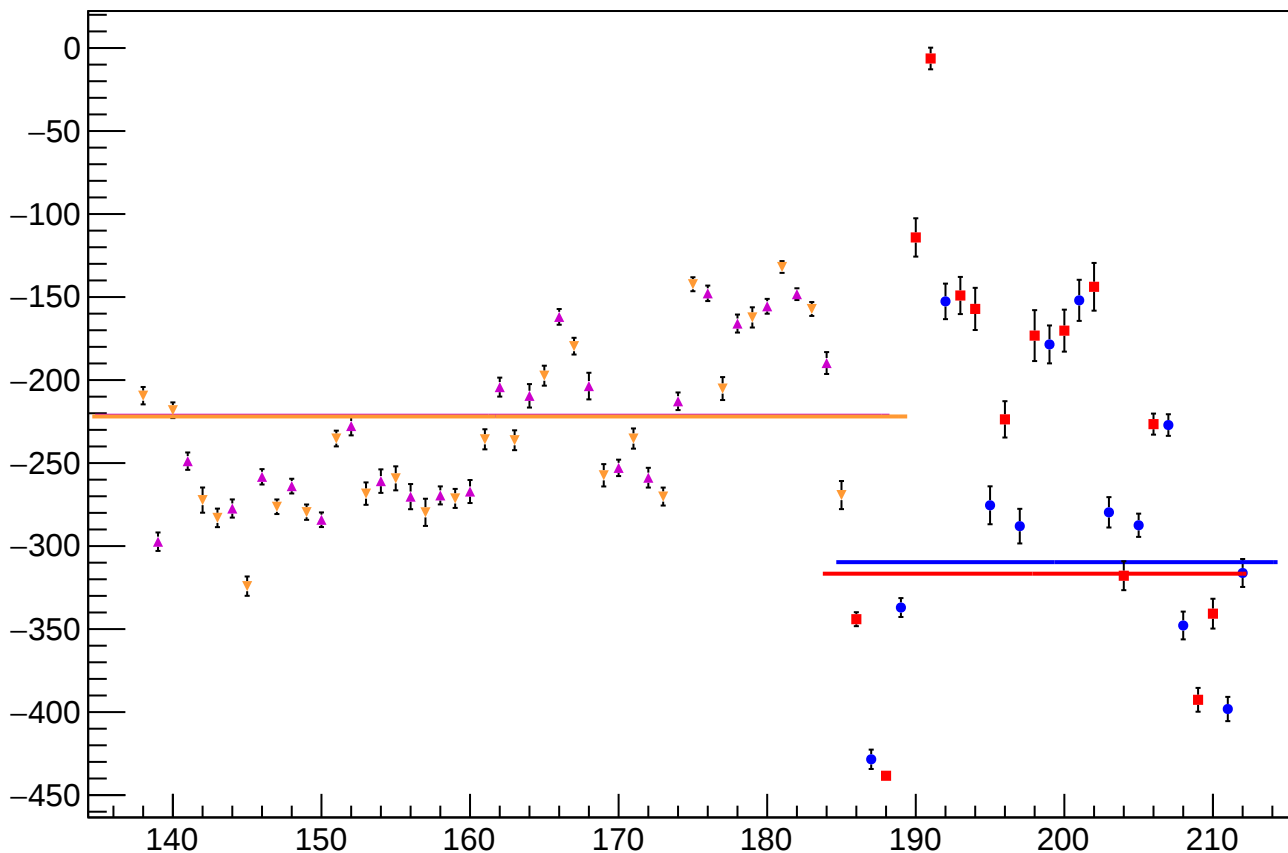
Right: 106.901 $\pm$ 0.037 χ^2 /NDF: 947210.0/62

In: 121.961 $\pm$ 0.033 χ^2 /NDF: 523690.2/52

Out: 113.515 $\pm$ 0.031 χ^2 /NDF: 1174410.6/57

All: 117.557 $\pm$ 0.023 χ^2 /NDF: 1732523.6/110

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -309.682 $\pm$ 2.219 χ^2 /NDF: 1310.6/12

Left Out: -221.934 $\pm$ 1.084 χ^2 /NDF: 2578.4/24

Right Out: -316.633 $\pm$ 1.814 χ^2 /NDF: 5365.3/13

Left In: -221.483 $\pm$ 1.102 χ^2 /NDF: 2149.8/22

Left: -221.712 $\pm$ 0.773 χ^2 /NDF: 4728.2/47

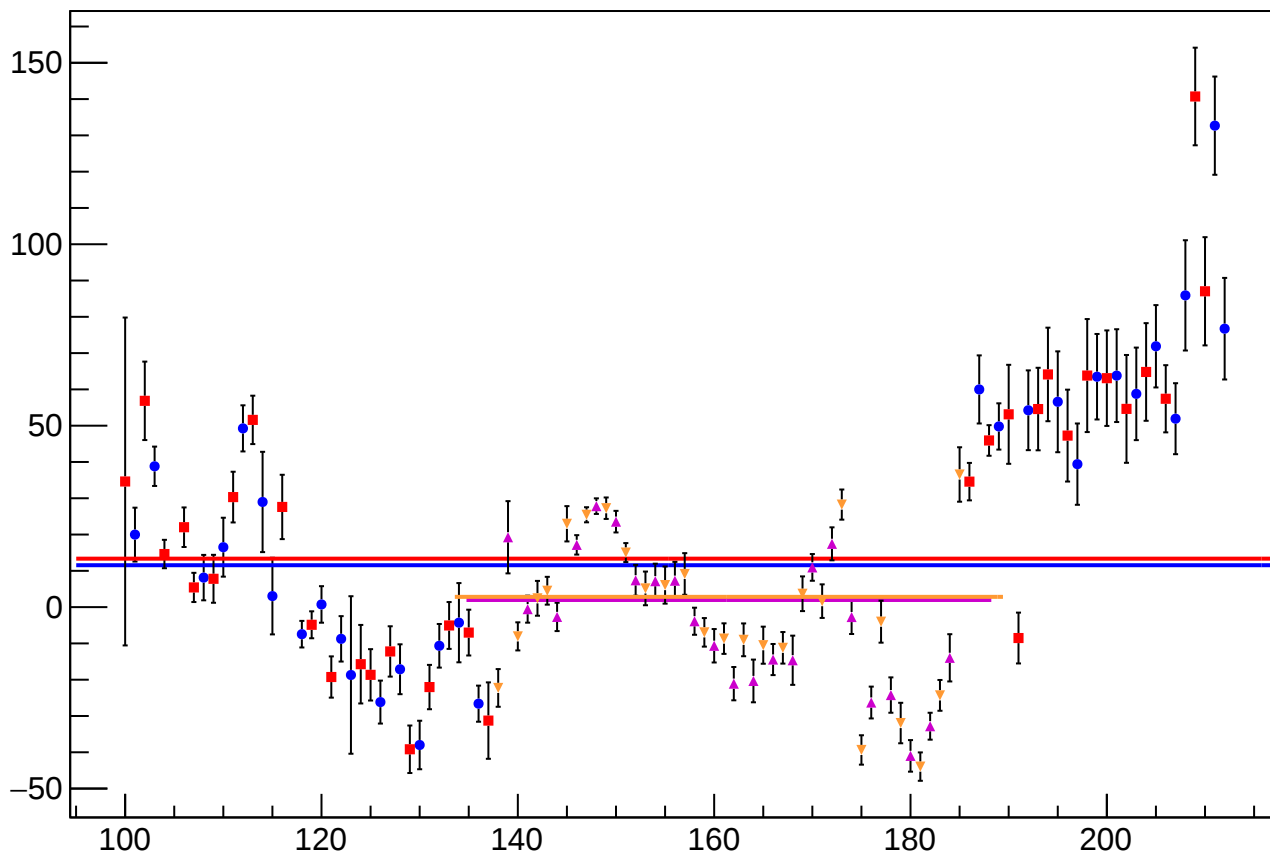
Right: -313.848 $\pm$ 1.404 χ^2 /NDF: 6681.8/26

In: -238.943 $\pm$ 0.987 χ^2 /NDF: 4728.0/35

Out: -246.864 $\pm$ 0.931 χ^2 /NDF: 9951.2/38

All: -243.136 $\pm$ 0.677 χ^2 /NDF: 14713.3/74

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.549+/-1.371 χ^2/NDF : 611.4/29

Left Out: 2.832+/-0.807 χ^2/NDF : 686.9/24

Right Out: 13.356+/-1.203 χ^2/NDF : 612.2/32

Left In: 1.969+/-0.835 χ^2/NDF : 589.1/22

Left: 2.415+/-0.580 χ^2/NDF : 1276.5/47

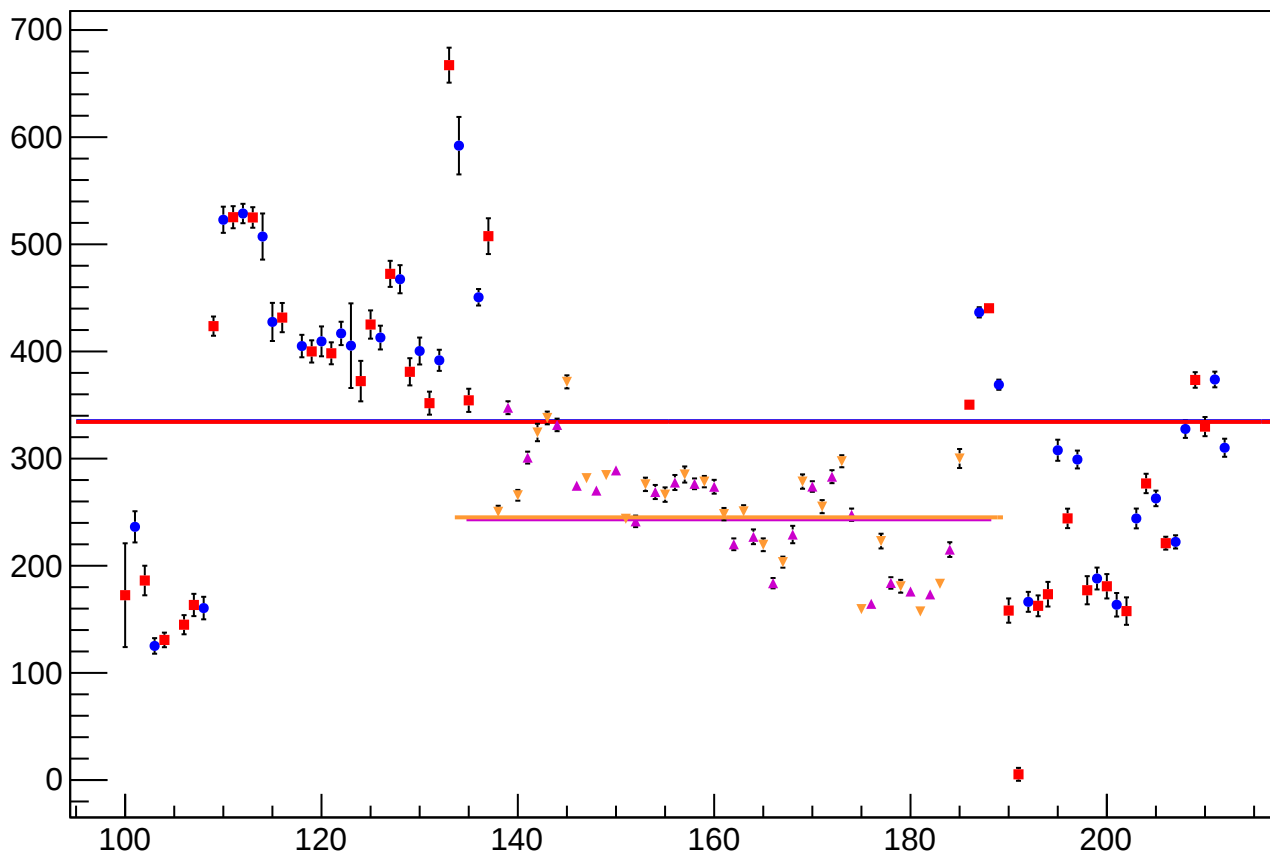
Right: 12.570+/-0.904 χ^2/NDF : 1224.7/62

In: 4.560+/-0.713 χ^2/NDF : 1236.1/52

Out: 6.097+/-0.670 χ^2/NDF : 1351.9/57

All: 5.376+/-0.488 χ^2/NDF : 2590.5/110

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 334.943 $\pm$ 1.633 χ^2 /NDF: 4474.1/29

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 334.257 $\pm$ 1.330 χ^2 /NDF: 10097.4/32

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

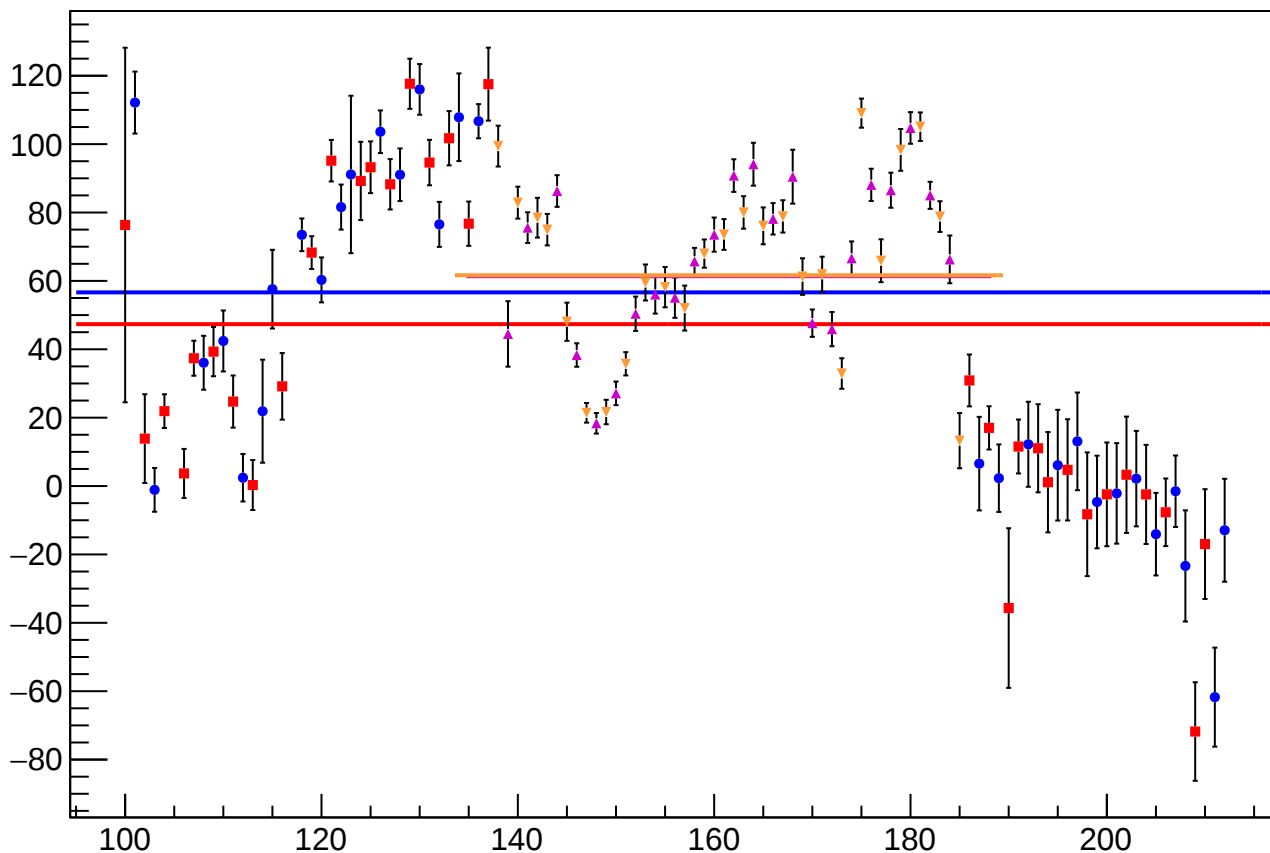
Right: 334.530 $\pm$ 1.031 χ^2 /NDF: 14571.7/62

In: 271.728 $\pm$ 0.909 χ^2 /NDF:8882.4/52

Out: 280.651 $\pm$ 0.839 χ^2 /NDF:15393.7/57

All: 276.542 $\pm$ 0.617 χ^2 /NDF: 24328.1/110

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 56.642 ± 1.591 $\chi^2/\text{NDF}: 795.1/29$

Left Out: 61.647 ± 0.936 $\chi^2/\text{NDF}: 871.5/24$

Right Out: 47.348 ± 1.436 $\chi^2/\text{NDF}: 786.1/32$

Left In: 61.375 ± 0.961 $\chi^2/\text{NDF}: 699.7/22$

Left: 61.515 ± 0.671 $\chi^2/\text{NDF}: 1571.3/47$

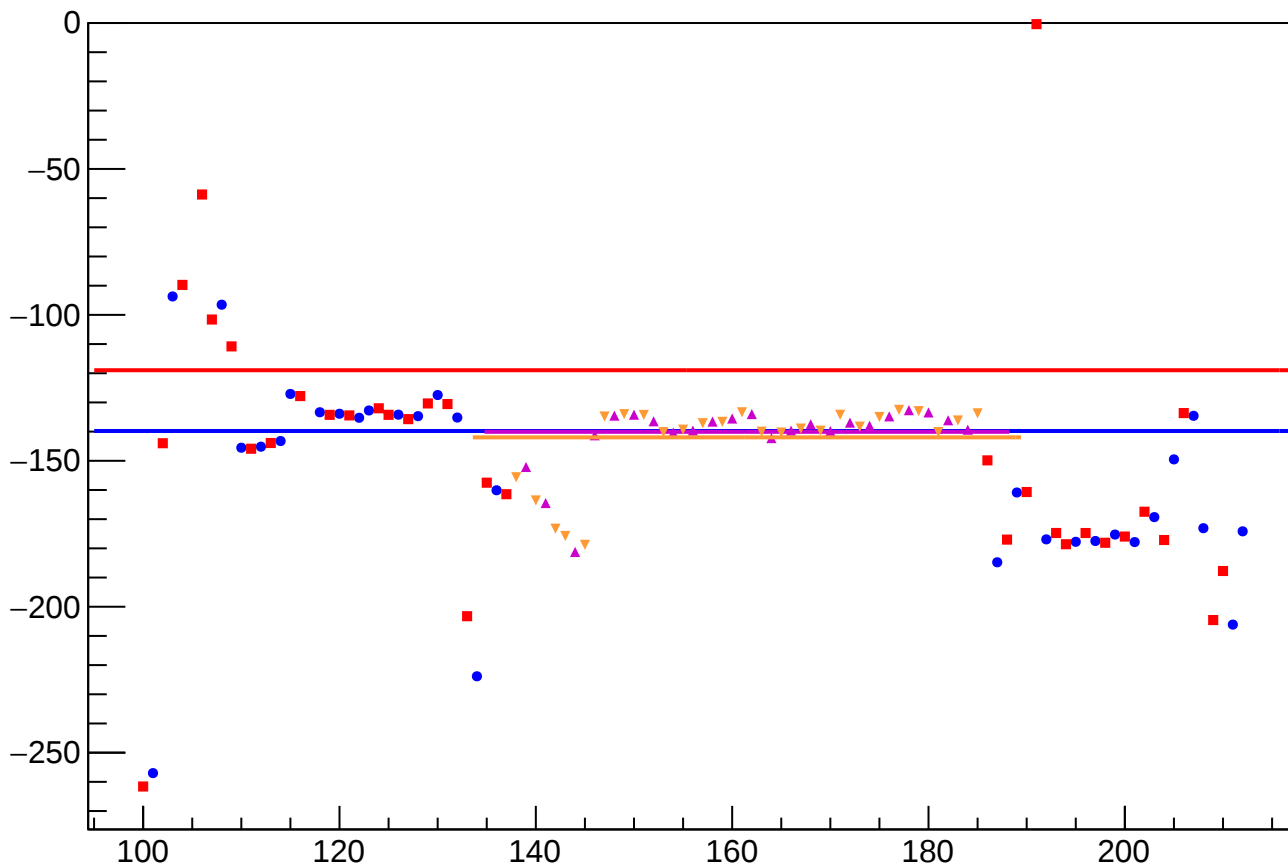
Right: 51.520 ± 1.066 $\chi^2/\text{NDF}: 1599.9/62$

In: 60.110 ± 0.823 $\chi^2/\text{NDF}: 1501.2/52$

Out: 57.383 ± 0.784 $\chi^2/\text{NDF}: 1727.2/57$

All: 58.681 ± 0.568 $\chi^2/\text{NDF}: 3234.1/110$

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -139.785 ± 0.075 $\chi^2/\text{NDF}: 248326.6/29$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -118.964 ± 0.067 $\chi^2/\text{NDF}: 634103.8/32$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

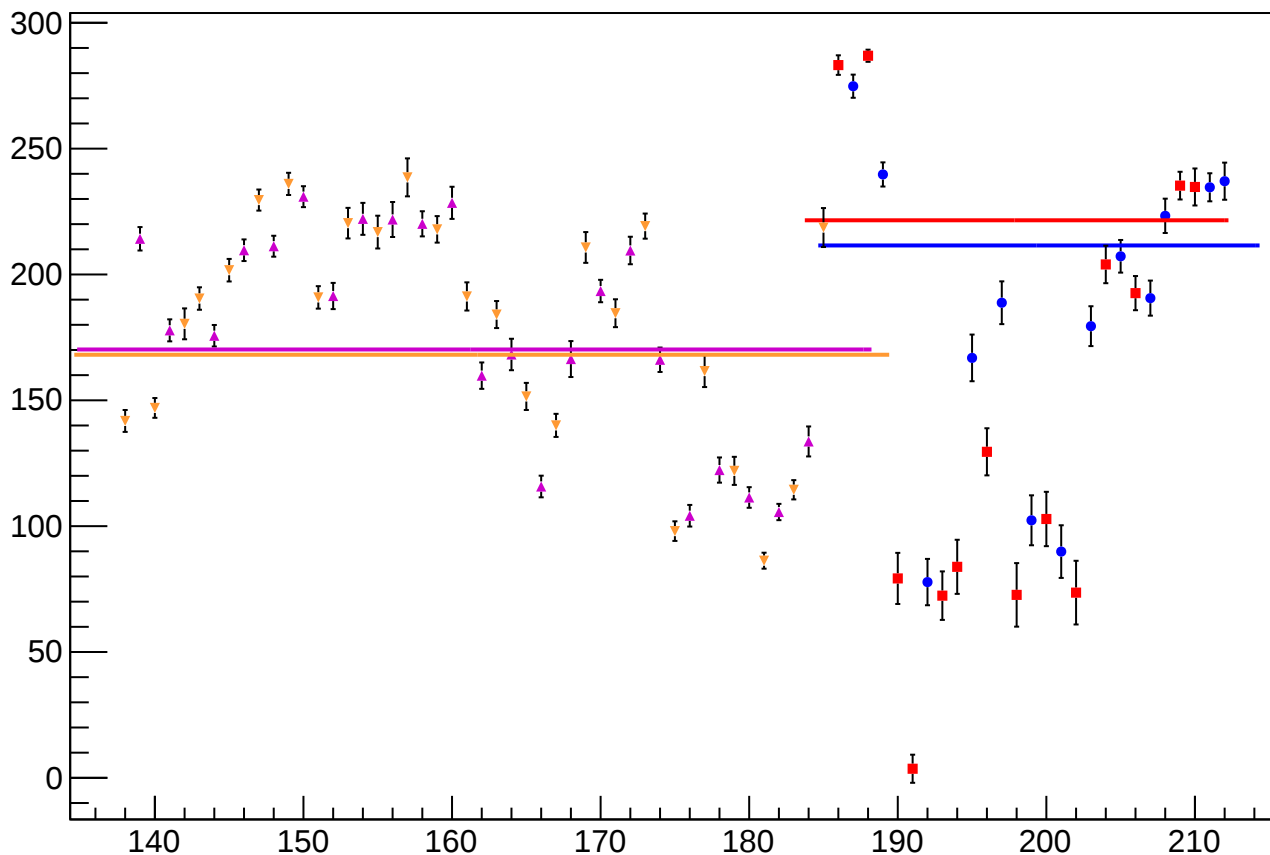
Right: -128.165 ± 0.050 $\chi^2/\text{NDF}: 925312.5/62$

In: -139.993 ± 0.039 $\chi^2/\text{NDF}: 296367.8/52$

Out: -134.860 ± 0.037 $\chi^2/\text{NDF}: 796207.2/57$

All: -137.328 ± 0.027 $\chi^2/\text{NDF}: 1101755.0/111$

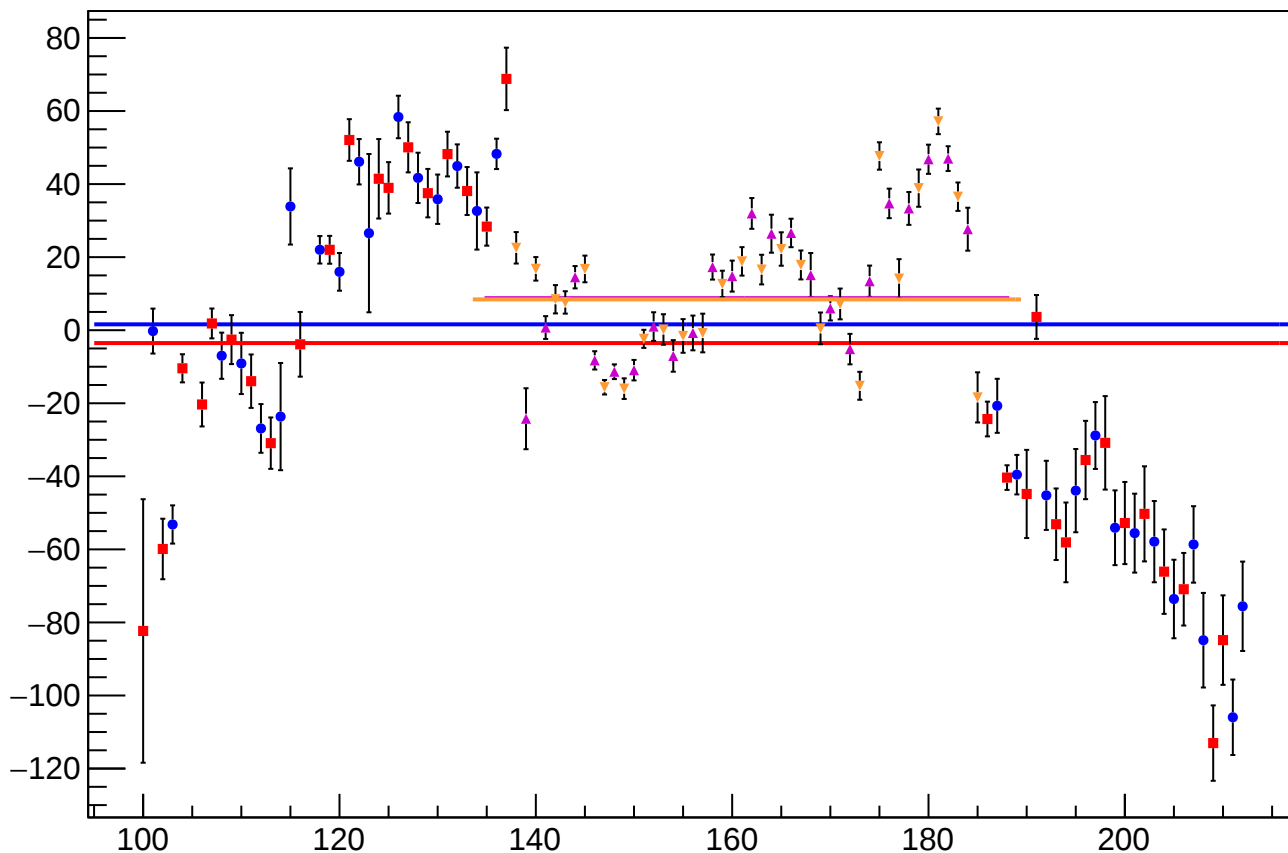
reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 211.532 ± 1.891 $\chi^2/\text{NDF}: 779.4/12$
 Left Out: 168.106 ± 0.970 $\chi^2/\text{NDF}: 2468.8/24$
 Right Out: 221.529 ± 1.537 $\chi^2/\text{NDF}: 3636.8/13$
 Left In: 170.198 ± 0.995 $\chi^2/\text{NDF}: 2024.5/22$

Left: 169.125 ± 0.695 $\chi^2/\text{NDF}: 4495.5/47$
 Right: 217.552 ± 1.193 $\chi^2/\text{NDF}: 4433.0/26$
 In: 179.166 ± 0.881 $\chi^2/\text{NDF}: 3178.0/35$
 Out: 183.327 ± 0.820 $\chi^2/\text{NDF}: 6969.4/38$
 All: 181.394 ± 0.600 $\chi^2/\text{NDF}: 10159.4/74$

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.604 ± 1.300 $\chi^2/\text{NDF}: 1056.2/29$

Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$

Right Out: -3.517 ± 1.144 $\chi^2/\text{NDF}: 1074.1/32$

Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$

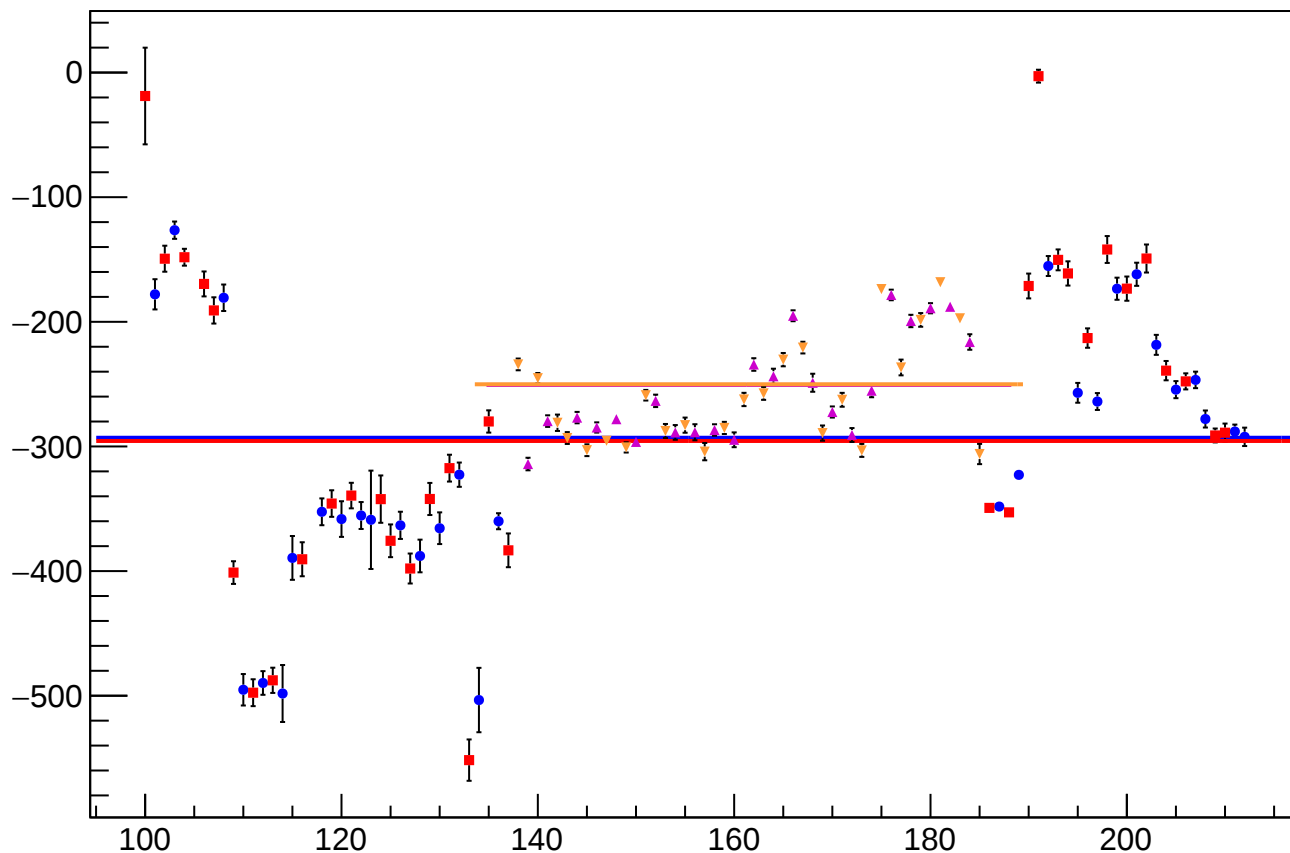
Right: -1.282 ± 0.859 $\chi^2/\text{NDF}: 2139.0/62$

In: 6.950 ± 0.655 $\chi^2/\text{NDF}: 1705.7/52$

Out: 4.989 ± 0.614 $\chi^2/\text{NDF}: 1903.9/57$

All: 5.906 ± 0.448 $\chi^2/\text{NDF}: 3614.3/110$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -293.019+/-1.442 χ^2/NDF : 3131.9/29

Left Out: -250.119+/-0.972 χ^2/NDF :2246.9/24

Right Out: -295.595+/-1.166 χ^2/NDF : 8111.4/32

Left In: -250.628+/-0.990 χ^2/NDF :1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

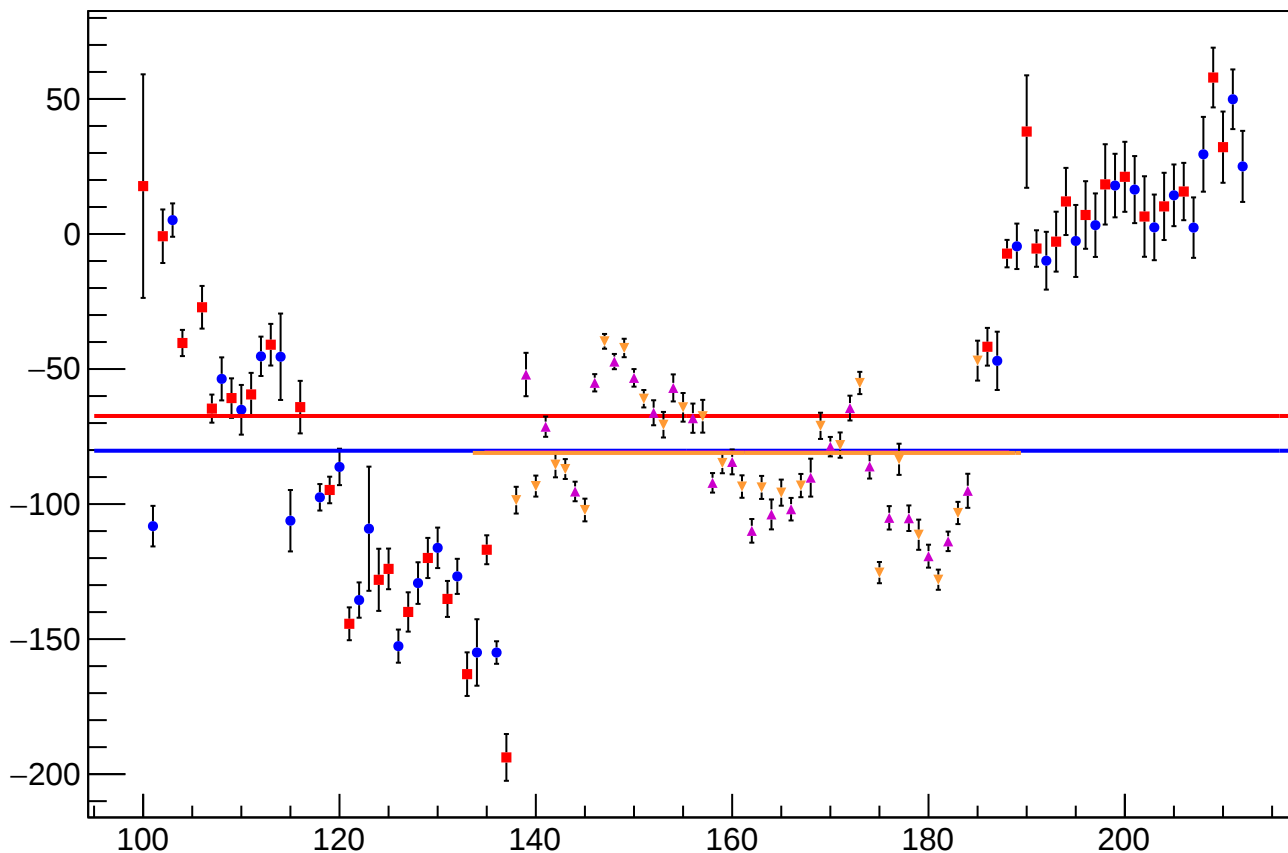
Right: -294.576+/-0.907 χ^2/NDF : 11245.3/62

In: -264.213+/-0.816 χ^2/NDF :5656.2/52

Out: -268.768+/-0.747 χ^2/NDF :11255.4/57

All: -266.693+/-0.551 χ^2/NDF : 16928.6/110

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -80.250 ± 1.509 $\chi^2/\text{NDF}: 1732.5/29$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -67.384 ± 1.369 $\chi^2/\text{NDF}: 1850.3/32$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

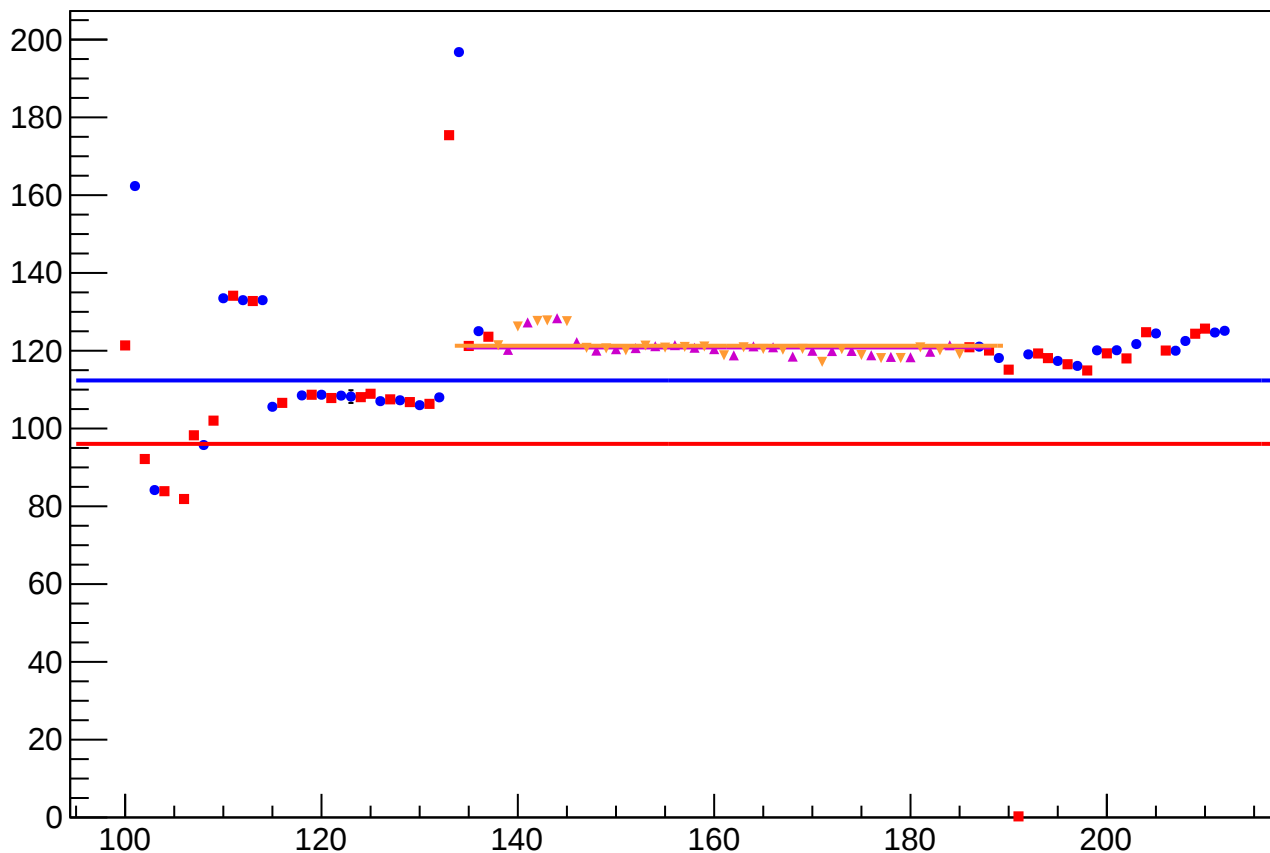
Right: -73.196 ± 1.014 $\chi^2/\text{NDF}: 3622.6/62$

In: -80.687 ± 0.755 $\chi^2/\text{NDF}: 2425.7/52$

Out: -77.300 ± 0.718 $\chi^2/\text{NDF}: 2835.6/57$

All: -78.909 ± 0.520 $\chi^2/\text{NDF}: 5271.9/110$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.358 $\pm$ 0.069 χ^2 /NDF: 80001.0/29

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 96.053 $\pm$ 0.062 χ^2 /NDF: 369034.8/32

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

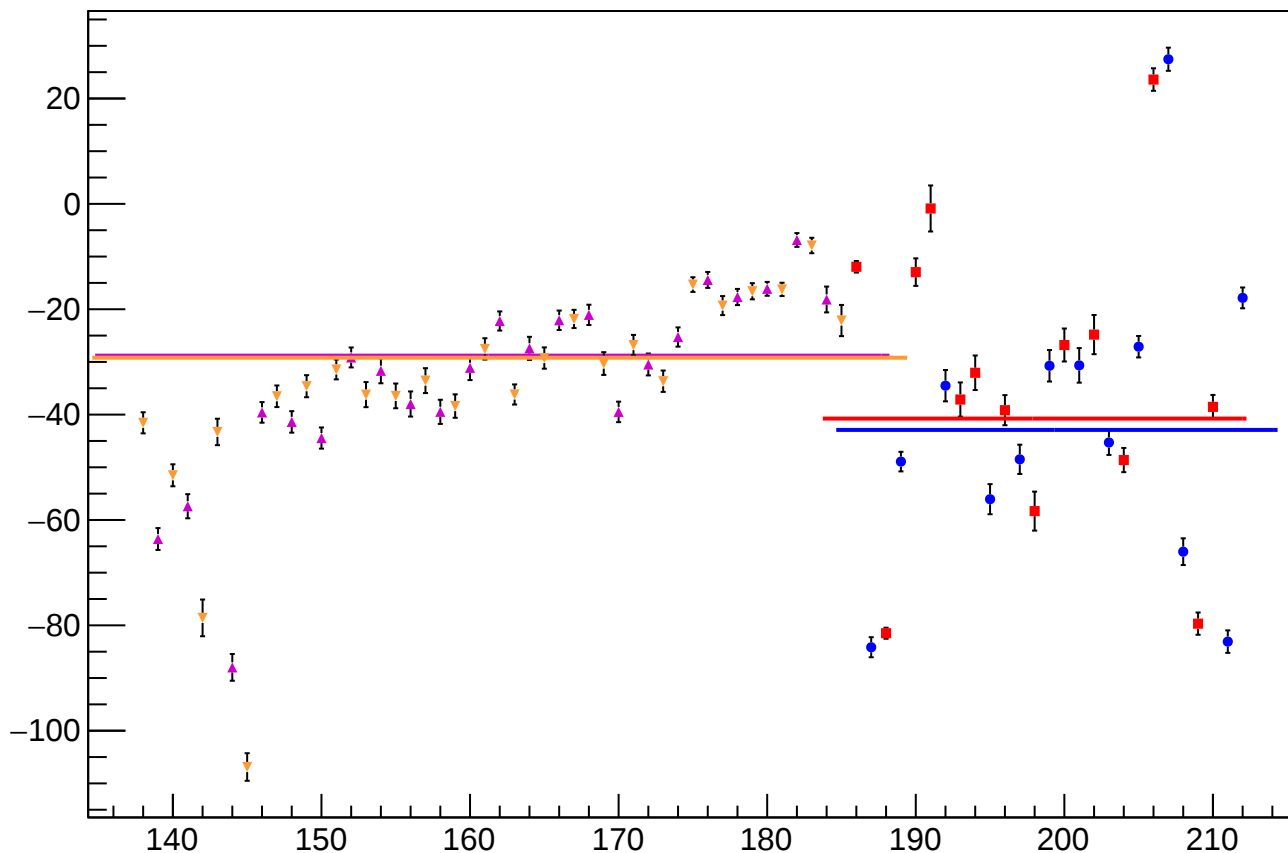
Right: 103.243 $\pm$ 0.046 χ^2 /NDF: 479845.4/62

In: 118.674 $\pm$ 0.035 χ^2 /NDF: 94480.1/52

Out: 113.788 $\pm$ 0.034 χ^2 /NDF: 491561.2/57

All: 116.125 $\pm$ 0.024 χ^2 /NDF: 596145.6/110

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -42.905 ± 0.646 $\chi^2/\text{NDF}: 2228.0/12$

Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$

Right Out: -40.752 ± 0.549 $\chi^2/\text{NDF}: 3720.3/13$

Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$

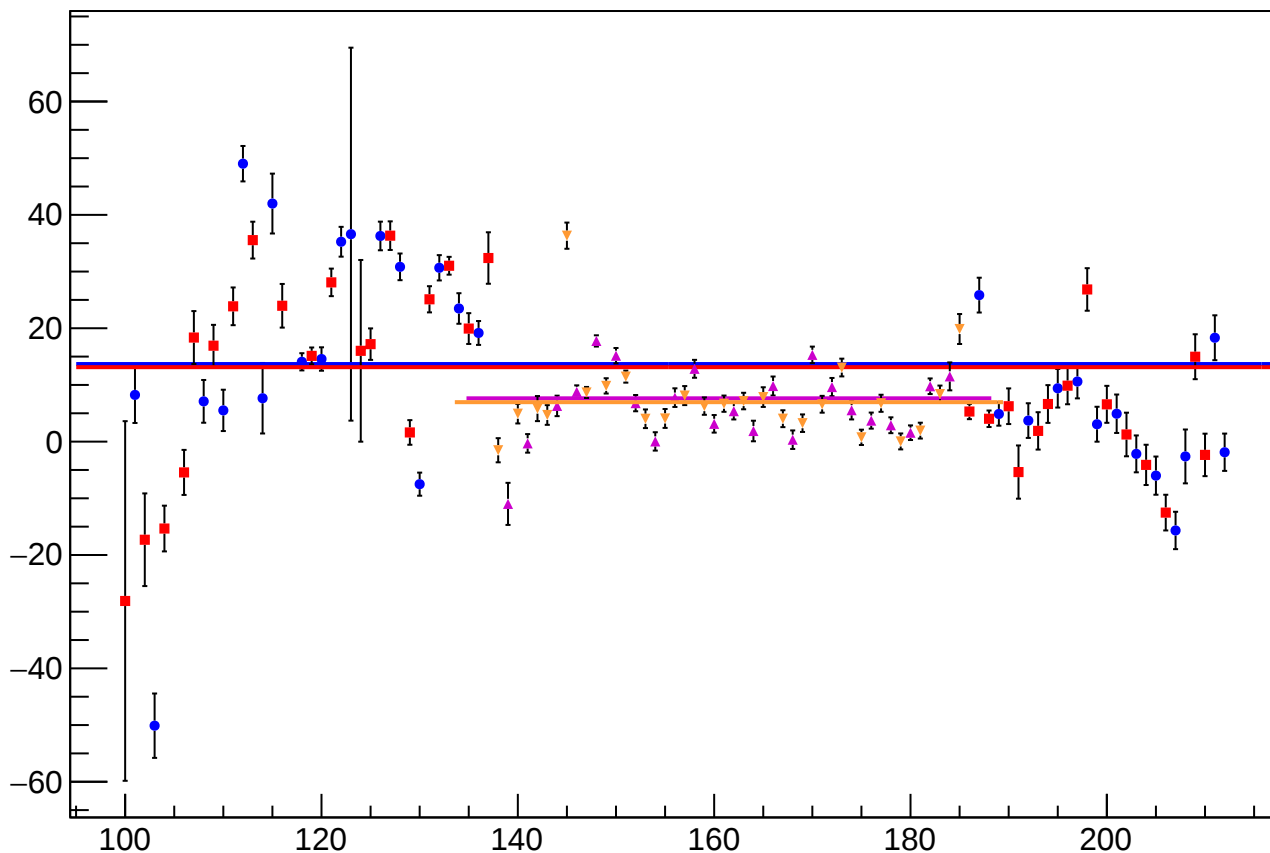
Right: -41.654 ± 0.418 $\chi^2/\text{NDF}: 5954.7/26$

In: -32.648 ± 0.337 $\chi^2/\text{NDF}: 4337.9/35$

Out: -33.057 ± 0.317 $\chi^2/\text{NDF}: 5897.0/38$

All: -32.865 ± 0.231 $\chi^2/\text{NDF}: 10235.6/74$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.686 $\pm$ 0.523 χ^2 /NDF: 918.8/29

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 13.133 $\pm$ 0.476 χ^2 /NDF: 734.4/32

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

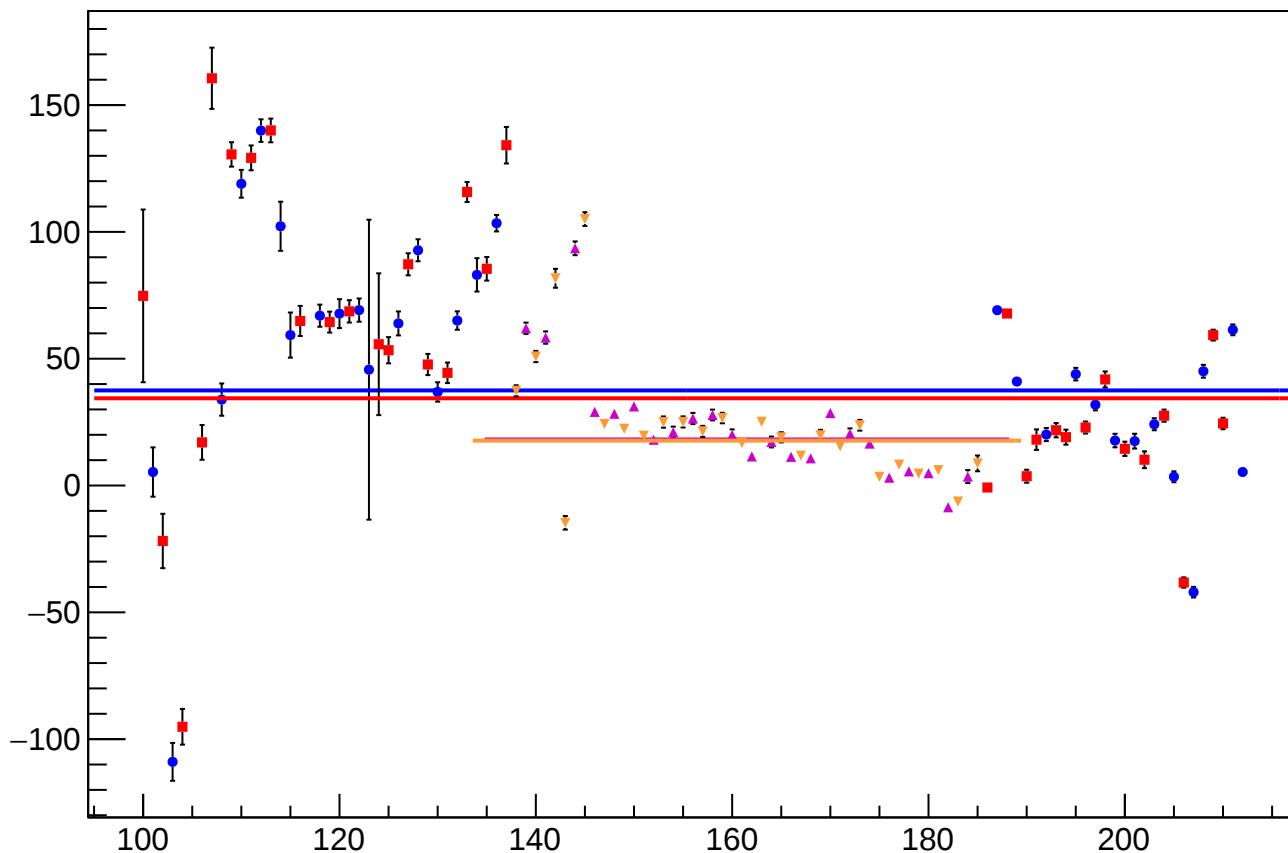
Right: 13.383 $\pm$ 0.352 χ^2 /NDF: 1653.8/62

In: 9.236 $\pm$ 0.269 χ^2 /NDF:1354.8/52

Out: 8.738 $\pm$ 0.256 χ^2 /NDF:1175.3/57

All: 8.975 $\pm$ 0.185 χ^2 /NDF: 2531.9/110

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 37.494+/-0.536 χ^2/NDF : 4733.4/29

Left Out: 17.705+/-0.387 χ^2/NDF : 2432.2/24

Right Out: 34.396+/-0.441 χ^2/NDF : 7767.9/32

Left In: 18.150+/-0.393 χ^2/NDF : 2339.4/22

Left: 17.924+/-0.276 χ^2/NDF : 4772.2/47

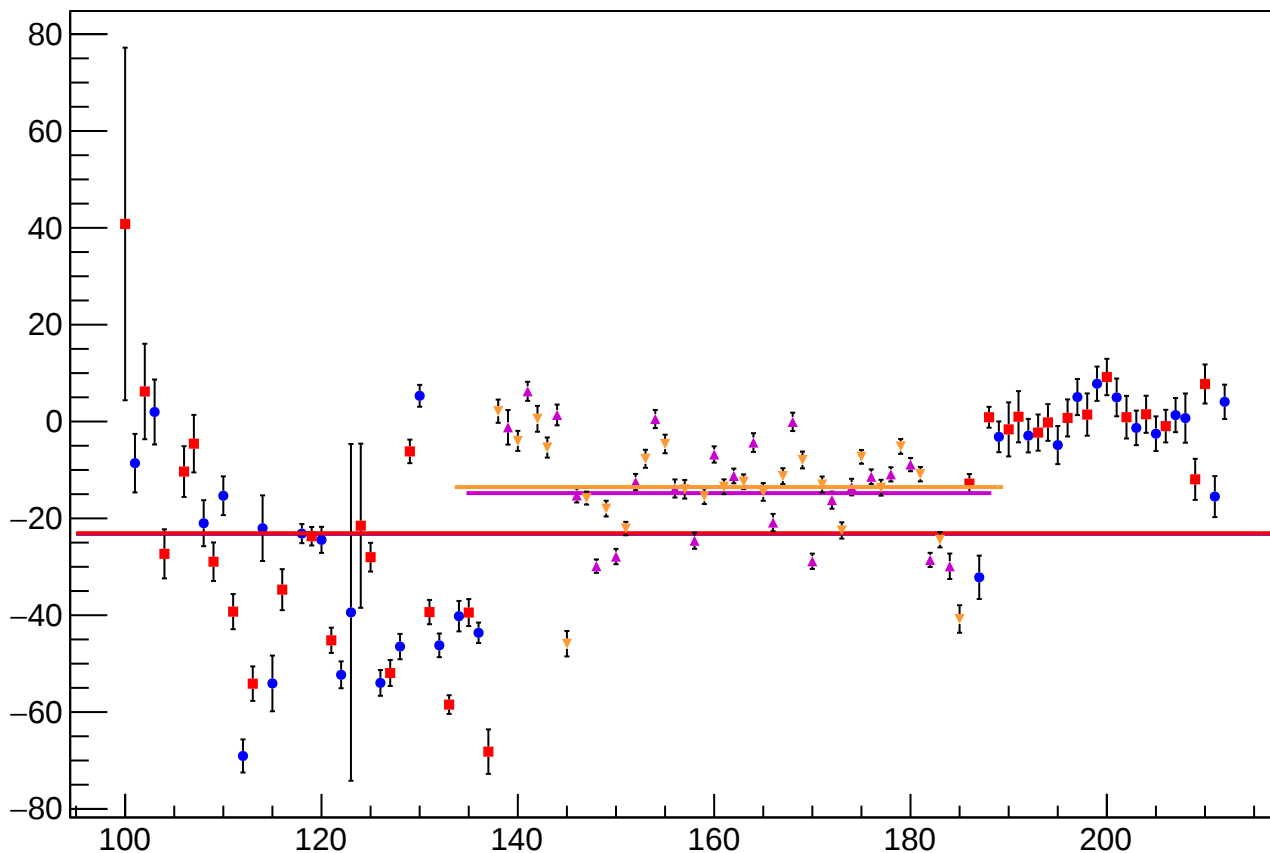
Right: 35.647+/-0.340 χ^2/NDF : 12521.3/62

In: 24.909+/-0.317 χ^2/NDF : 7921.1/52

Out: 24.971+/-0.291 χ^2/NDF : 11008.9/57

All: 24.943+/-0.214 χ^2/NDF : 18930.1/110

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.179 ± 0.606 $\chi^2/\text{NDF}: 1418.9/29$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -23.084 ± 0.574 $\chi^2/\text{NDF}: 1459.6/32$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

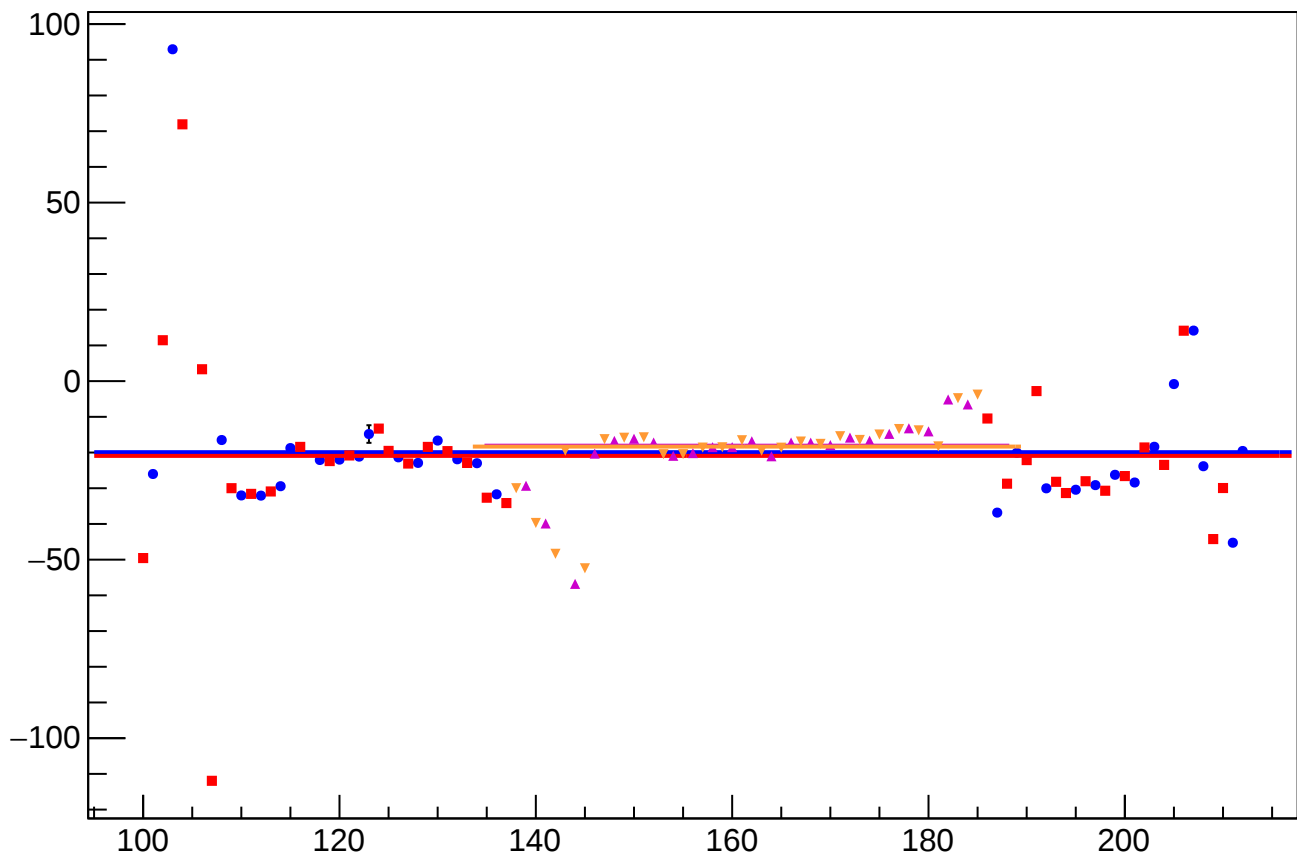
Right: -23.129 ± 0.417 $\chi^2/\text{NDF}: 2878.5/62$

In: -16.916 ± 0.306 $\chi^2/\text{NDF}: 2400.1/52$

Out: -16.056 ± 0.295 $\chi^2/\text{NDF}: 2236.2/57$

All: -16.471 ± 0.212 $\chi^2/\text{NDF}: 4640.4/110$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.900+/-0.029 χ^2/NDF : 612070.7/29

Left Out: -18.334+/-0.016 χ^2/NDF : 284152.1/24

Right Out: -20.938+/-0.028 χ^2/NDF : 578097.0/32

Left In: -18.083+/-0.016 χ^2/NDF : 241949.5/22

Left: -18.211+/-0.011 χ^2/NDF : 526224.9/47

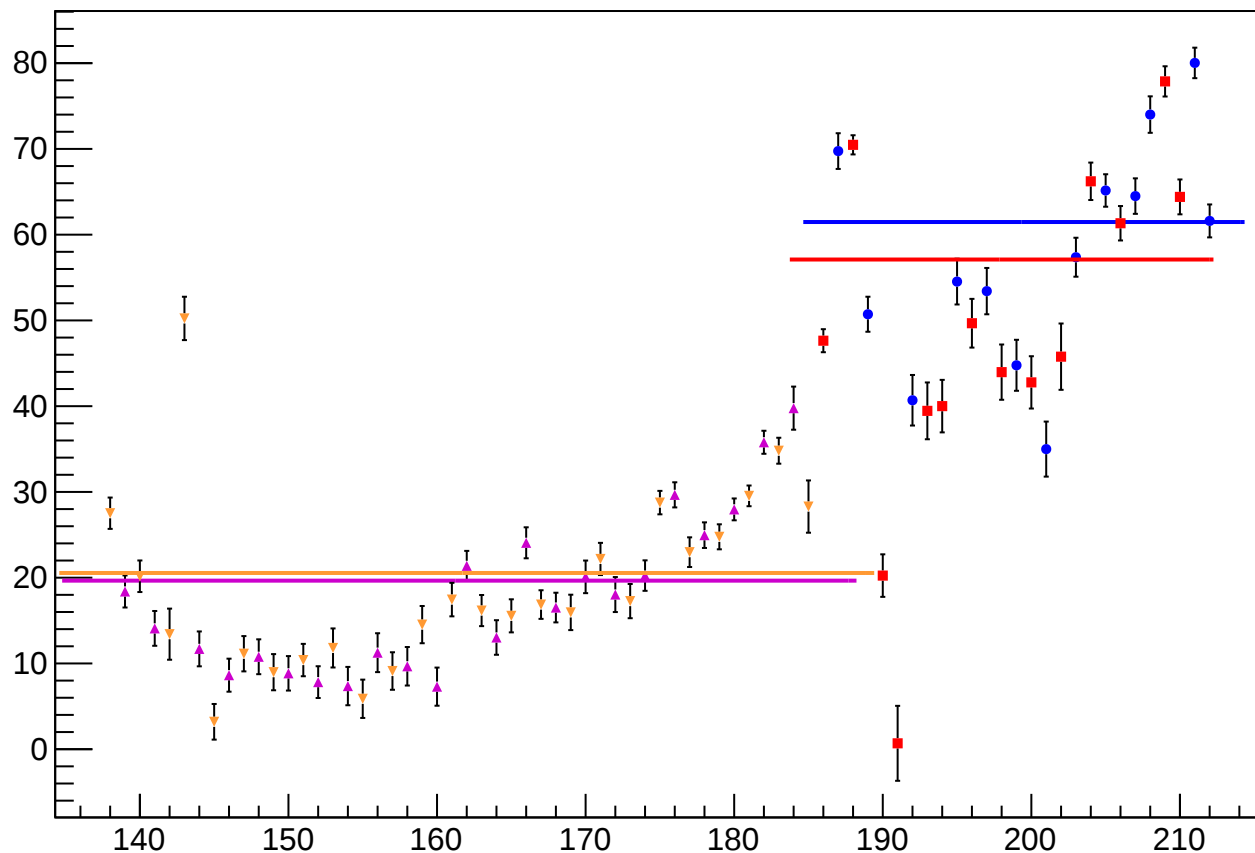
Right: -20.438+/-0.020 χ^2/NDF : 1190837.6/62

In: -18.514+/-0.014 χ^2/NDF : 857045.8/52

Out: -18.972+/-0.014 χ^2/NDF : 868865.7/57

All: -18.748+/-0.010 χ^2/NDF : 1726452.9/110

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 61.476 $\pm$ 0.622 χ^2 /NDF: 361.2/12

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF:626.4/24

Right Out: 57.102 $\pm$ 0.560 χ^2 /NDF: 867.5/13

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

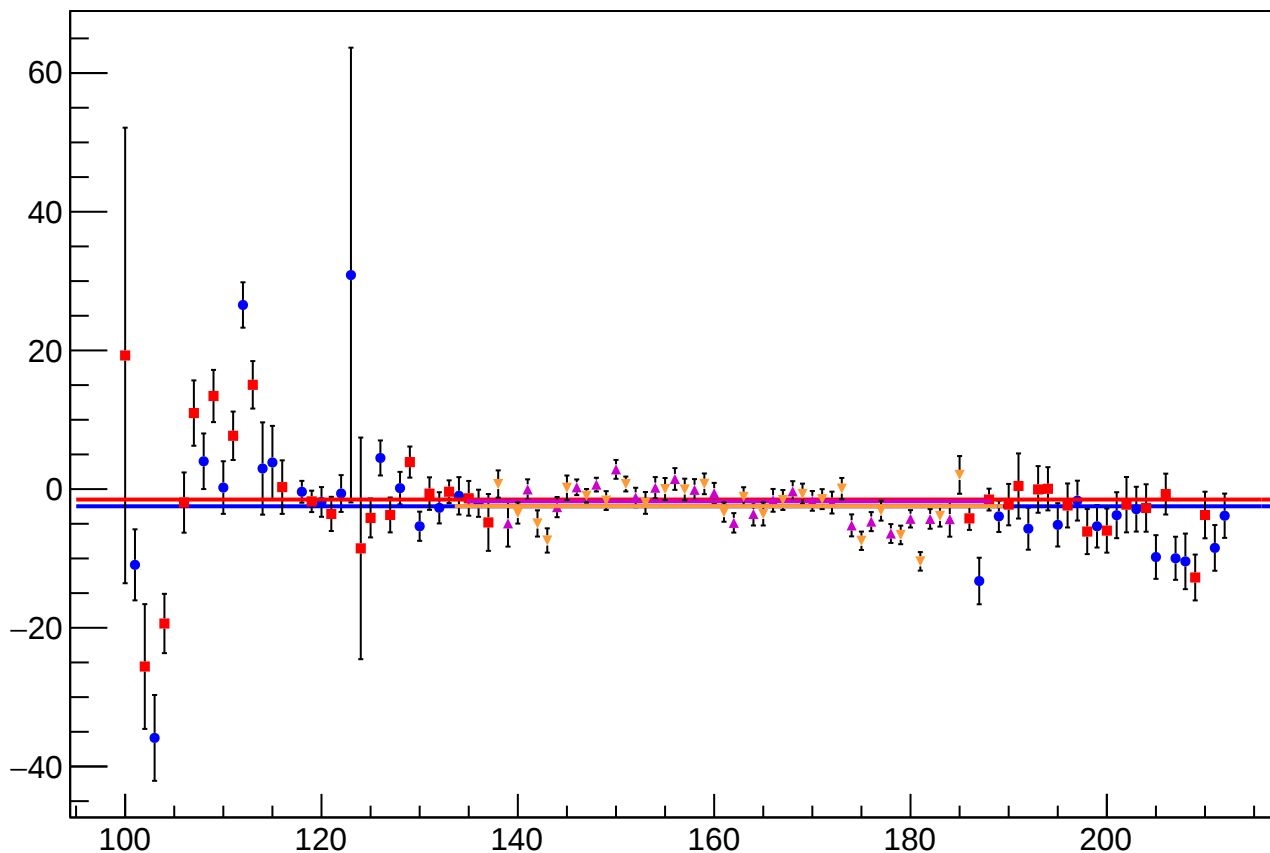
Right: 59.063 $\pm$ 0.416 χ^2 /NDF: 1256.0/26

In: 31.049 $\pm$ 0.324 χ^2 /NDF:4225.6/35

Out: 31.772 $\pm$ 0.311 χ^2 /NDF:4441.1/38

All: 31.426 $\pm$ 0.224 χ^2 /NDF: 8669.3/74

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.477 ± 0.524 χ^2/NDF : 162.6/29

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.506 ± 0.490 χ^2/NDF : 107.6/32

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

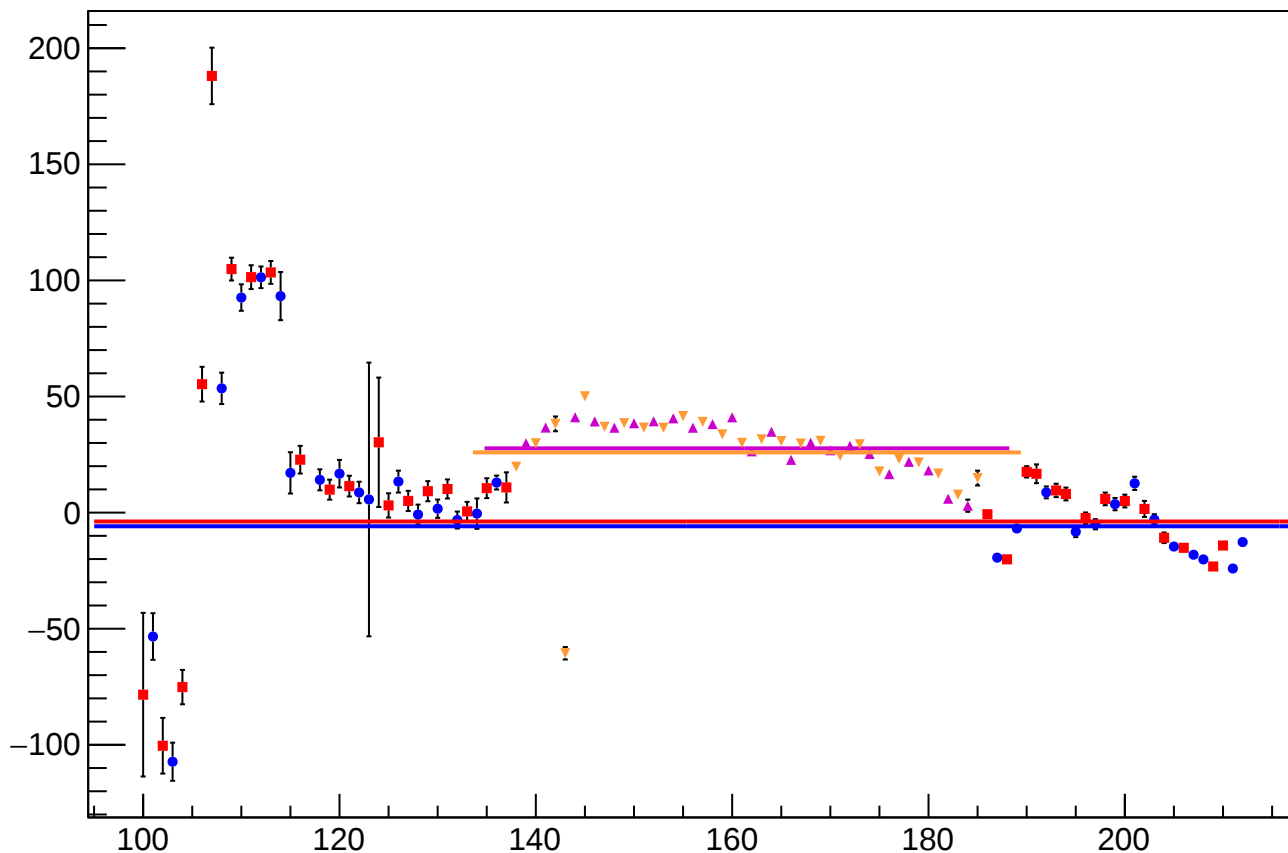
Right: -1.959 ± 0.358 χ^2/NDF : 272.0/62

In: -1.937 ± 0.262 χ^2/NDF : 231.5/52

Out: -2.206 ± 0.251 χ^2/NDF : 216.3/57

All: -2.077 ± 0.181 χ^2/NDF : 448.3/110

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.885 ± 0.526 χ^2/NDF : 1655.1/29

Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24

Right Out: -3.821 ± 0.458 χ^2/NDF : 2637.6/32

Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47

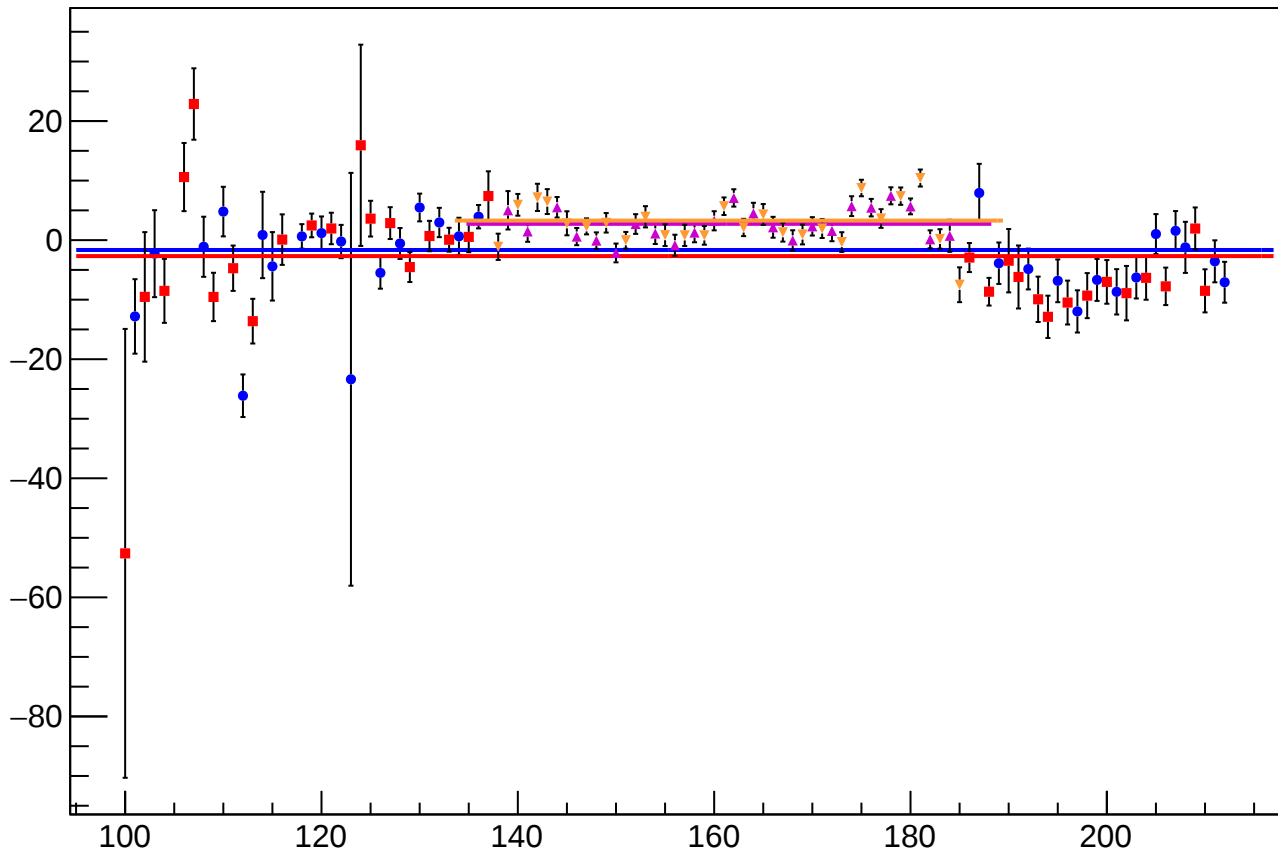
Right: -4.711 ± 0.345 χ^2/NDF : 4301.4/62

In: 16.227 ± 0.307 χ^2/NDF : 5145.1/52

Out: 14.091 ± 0.289 χ^2/NDF : 6892.2/57

All: 15.094 ± 0.210 χ^2/NDF : 12063.1/110

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.655 ± 0.602 χ^2/NDF : 106.7/29

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -2.681 ± 0.583 χ^2/NDF : 107.9/32

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

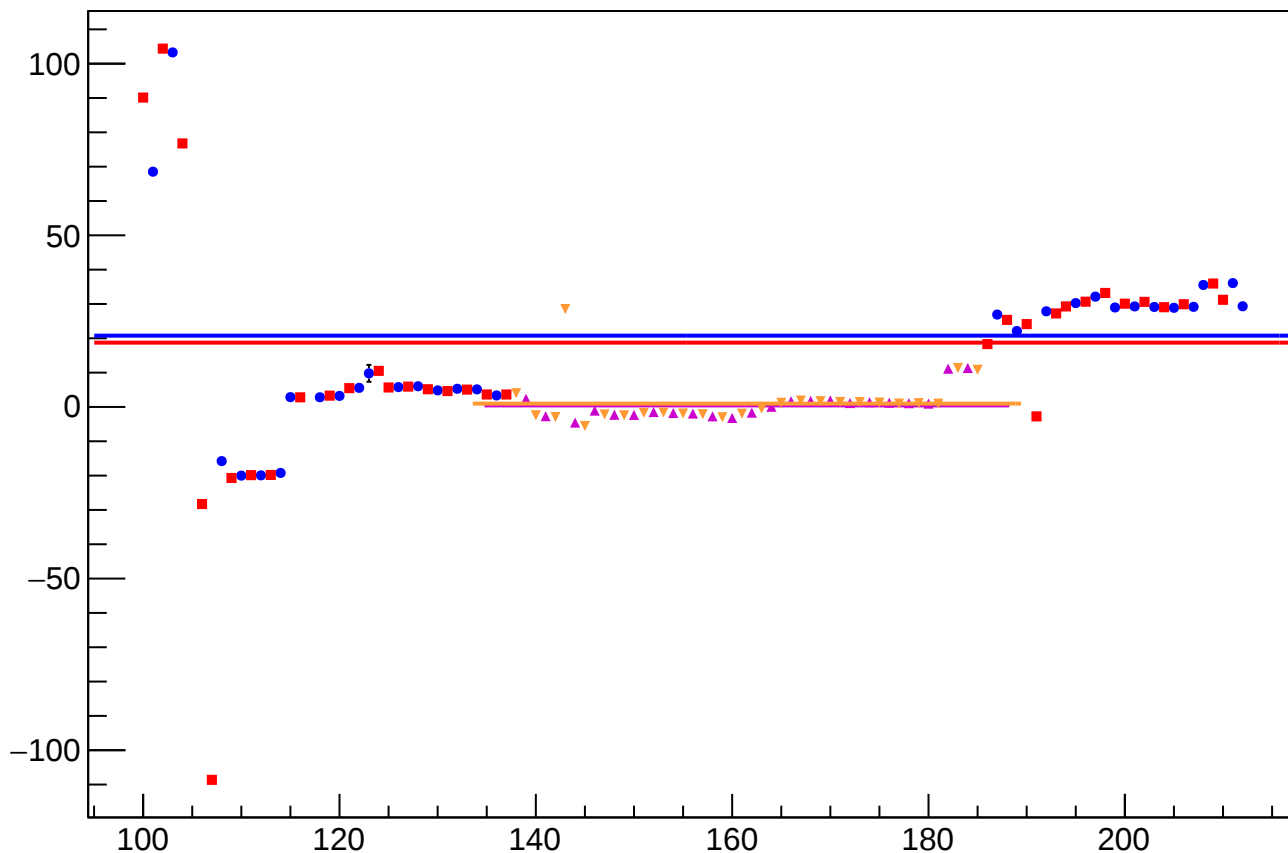
Right: -2.185 ± 0.419 χ^2/NDF : 216.0/62

In: 1.670 ± 0.297 χ^2/NDF : 211.4/52

Out: 1.825 ± 0.288 χ^2/NDF : 289.3/57

All: 1.750 ± 0.207 χ^2/NDF : 500.9/110

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 20.771 $\pm$ 0.028 χ^2 /NDF: 508466.7/29

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF: 117391.3/24

Right Out: 18.738 $\pm$ 0.027 χ^2 /NDF: 740393.0/32

Left In: 0.451 $\pm$ 0.015 χ^2 /NDF: 50699.8/22

Left: 0.719 $\pm$ 0.011 χ^2 /NDF: 168685.3/47

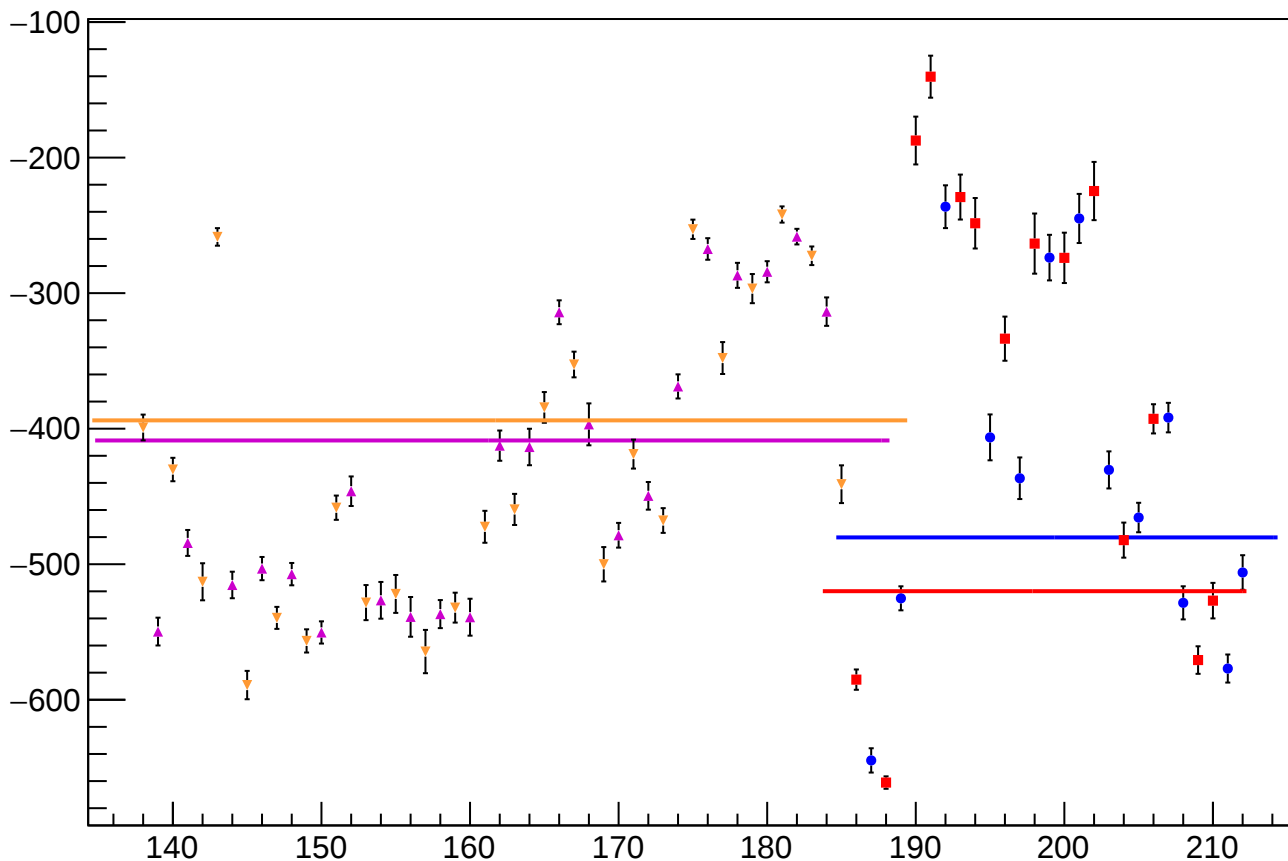
Right: 19.727 $\pm$ 0.020 χ^2 /NDF: 1251523.5/62

In: 5.127 $\pm$ 0.014 χ^2 /NDF: 958211.8/52

Out: 5.135 $\pm$ 0.013 χ^2 /NDF: 1177584.1/57

All: 5.131 $\pm$ 0.009 χ^2 /NDF: 2135796.0/110

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -480.224+/-3.373 χ^2/NDF : 1135.8/12

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -519.894+/-2.886 χ^2/NDF : 3296.8/13

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

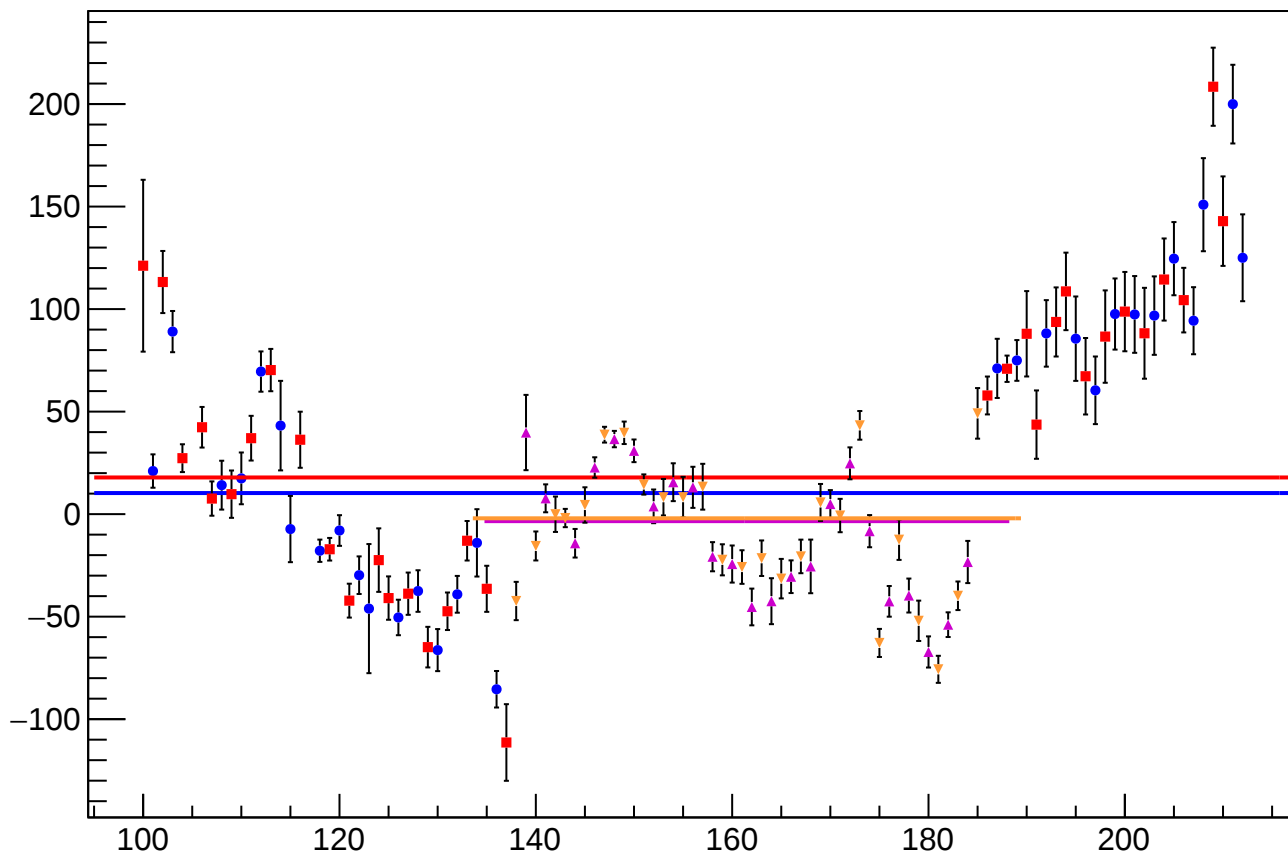
Right: -503.123+/-2.193 χ^2/NDF : 4512.5/26

In: -427.015+/-1.707 χ^2/NDF : 4533.2/35

Out: -431.888+/-1.585 χ^2/NDF : 8400.9/38

All: -429.631+/-1.162 χ^2/NDF : 12938.6/74

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.281+/-2.094 χ^2/NDF : 839.7/29

Left Out: -2.037+/-1.424 χ^2/NDF : 563.8/24

Right Out: 17.881+/-1.944 χ^2/NDF : 823.8/32

Left In: -3.420+/-1.520 χ^2/NDF : 451.0/22

Left: -2.683+/-1.039 χ^2/NDF : 1015.2/47

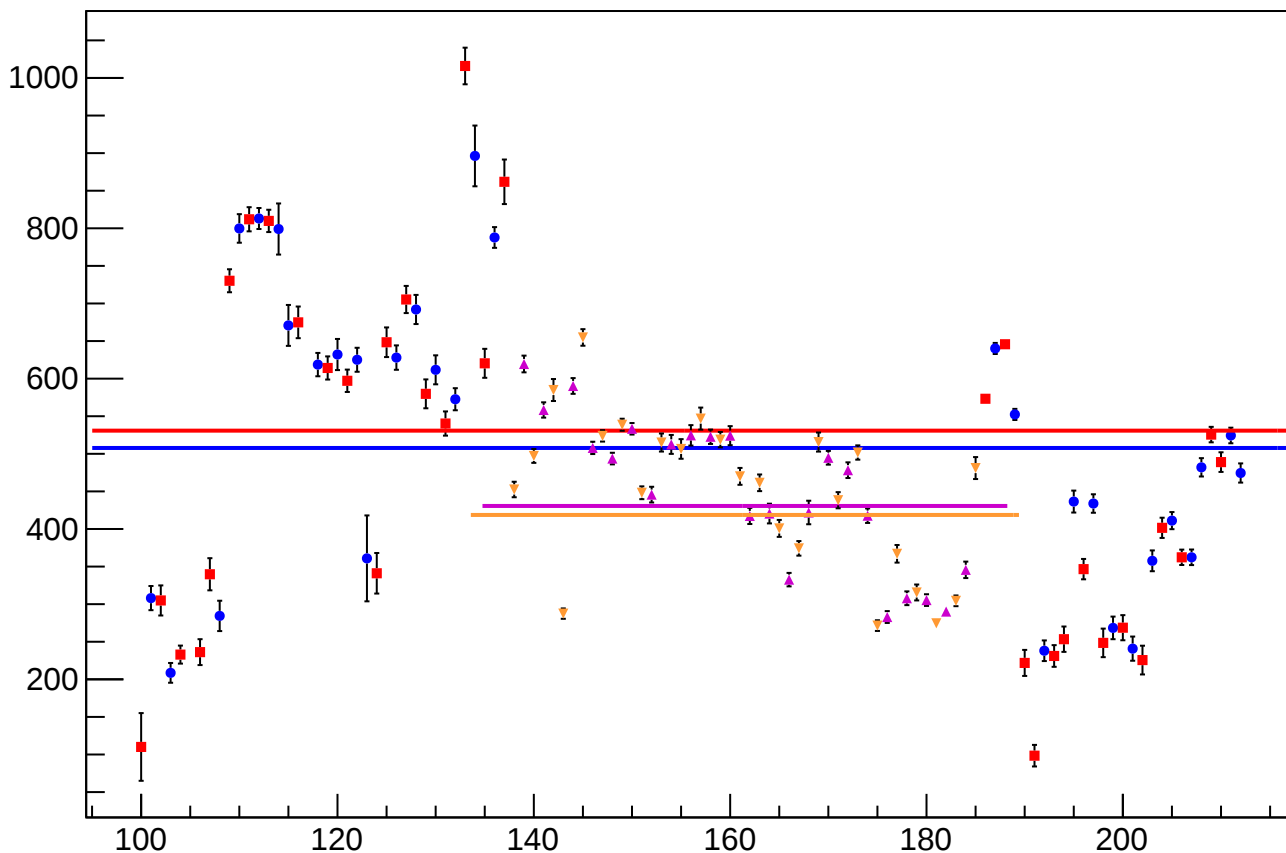
Right: 14.363+/-1.425 χ^2/NDF : 1670.5/62

In: 1.308+/-1.230 χ^2/NDF : 1318.7/52

Out: 4.921+/-1.149 χ^2/NDF : 1455.9/57

All: 3.238+/-0.840 χ^2/NDF : 2779.2/110

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 507.783 $\pm$ 2.511 χ^2 /NDF: 4197.5/29

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 530.829 $\pm$ 2.127 χ^2 /NDF: 7087.8/32

Left In: 430.640 $\pm$ 1.971 χ^2 /NDF:2850.6/22

Left: 424.457 $\pm$ 1.370 χ^2 /NDF: 6166.1/47

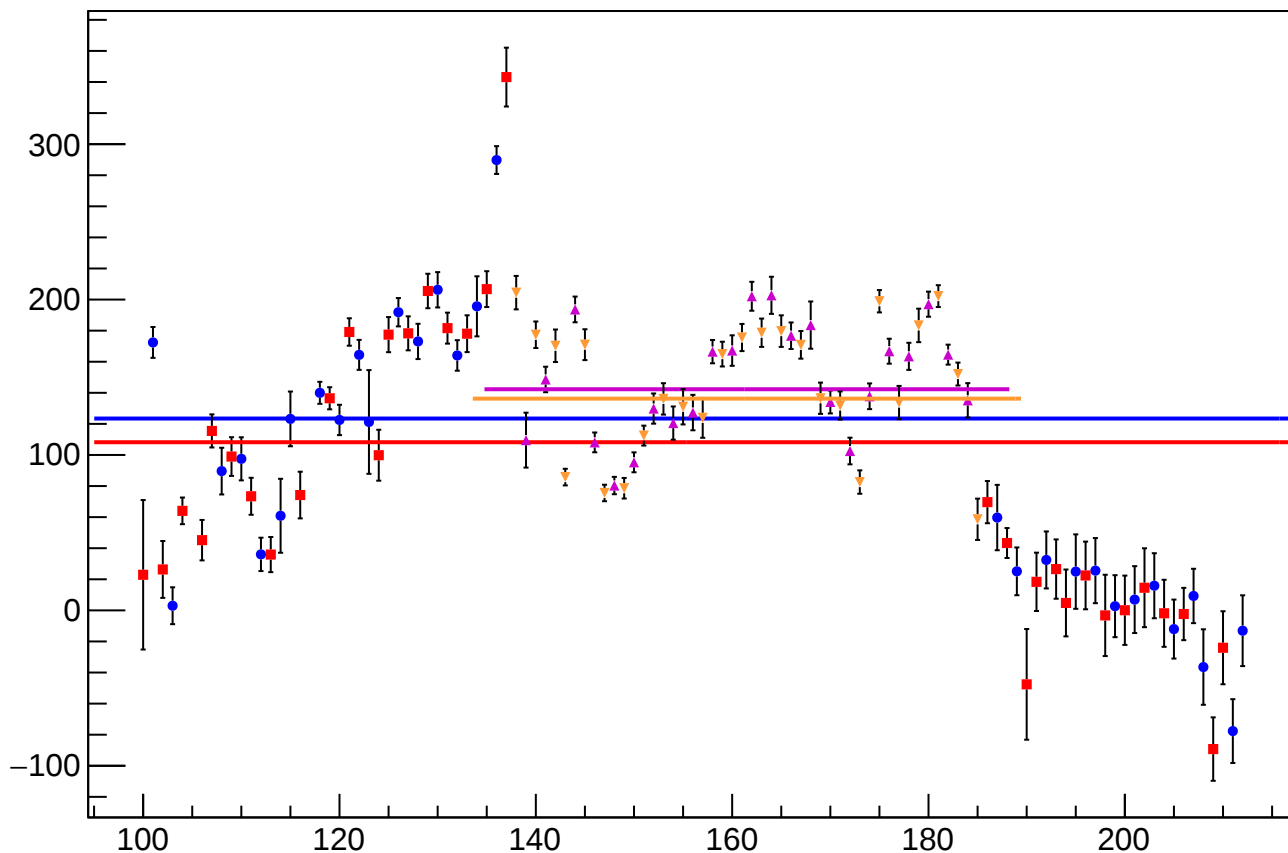
Right: 521.200 $\pm$ 1.623 χ^2 /NDF: 11334.4/62

In: 460.046 $\pm$ 1.550 χ^2 /NDF:7632.2/52

Out: 468.596 $\pm$ 1.419 χ^2 /NDF:11927.1/57

All: 464.698 $\pm$ 1.047 χ^2 /NDF: 19575.8/110

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 123.443 $\pm$ 2.439 χ^2/NDF : 1212.6/29

Left Out: 136.258 $\pm$ 1.651 χ^2/NDF : 758.3/24

Right Out: 108.204 $\pm$ 2.310 χ^2/NDF : 1083.1/32

Left In: 142.296 $\pm$ 1.745 χ^2/NDF : 459.8/22

Left: 139.111 $\pm$ 1.199 χ^2/NDF : 1224.4/47

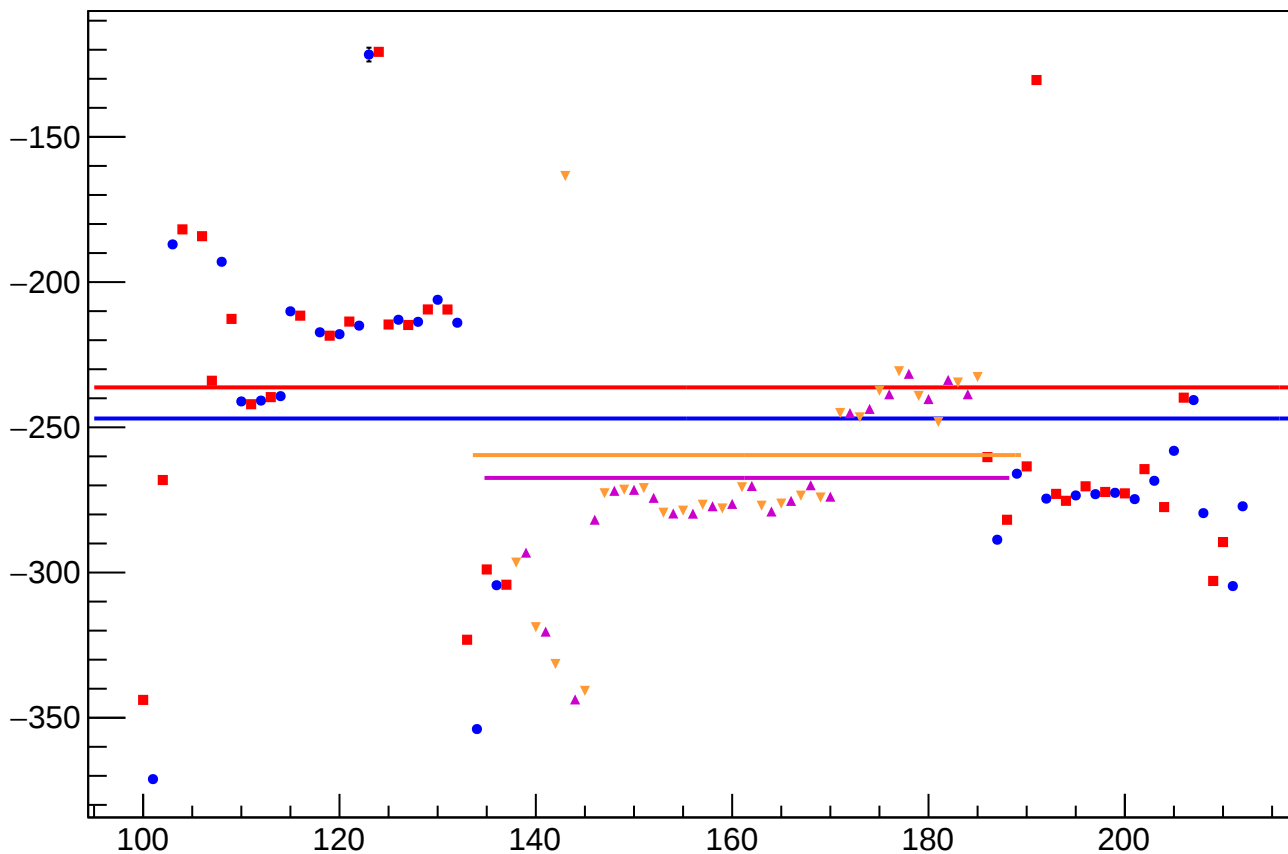
Right: 115.409 $\pm$ 1.677 χ^2/NDF : 2316.2/62

In: 135.914 $\pm$ 1.419 χ^2/NDF : 1711.9/52

Out: 126.771 $\pm$ 1.343 χ^2/NDF : 1939.0/57

All: 131.092 $\pm$ 0.975 χ^2/NDF : 3672.8/110

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -246.962+/-0.121 χ^2 /NDF: 169378.9/29

Left Out: -259.557+/-0.079 χ^2 /NDF:238235.2/24

Right Out: -236.250+/-0.113 χ^2 /NDF: 181667.5/32

Left In: -267.417+/-0.082 χ^2 /NDF:98035.5/22

Left: -263.361+/-0.057 χ^2 /NDF: 341051.4/47

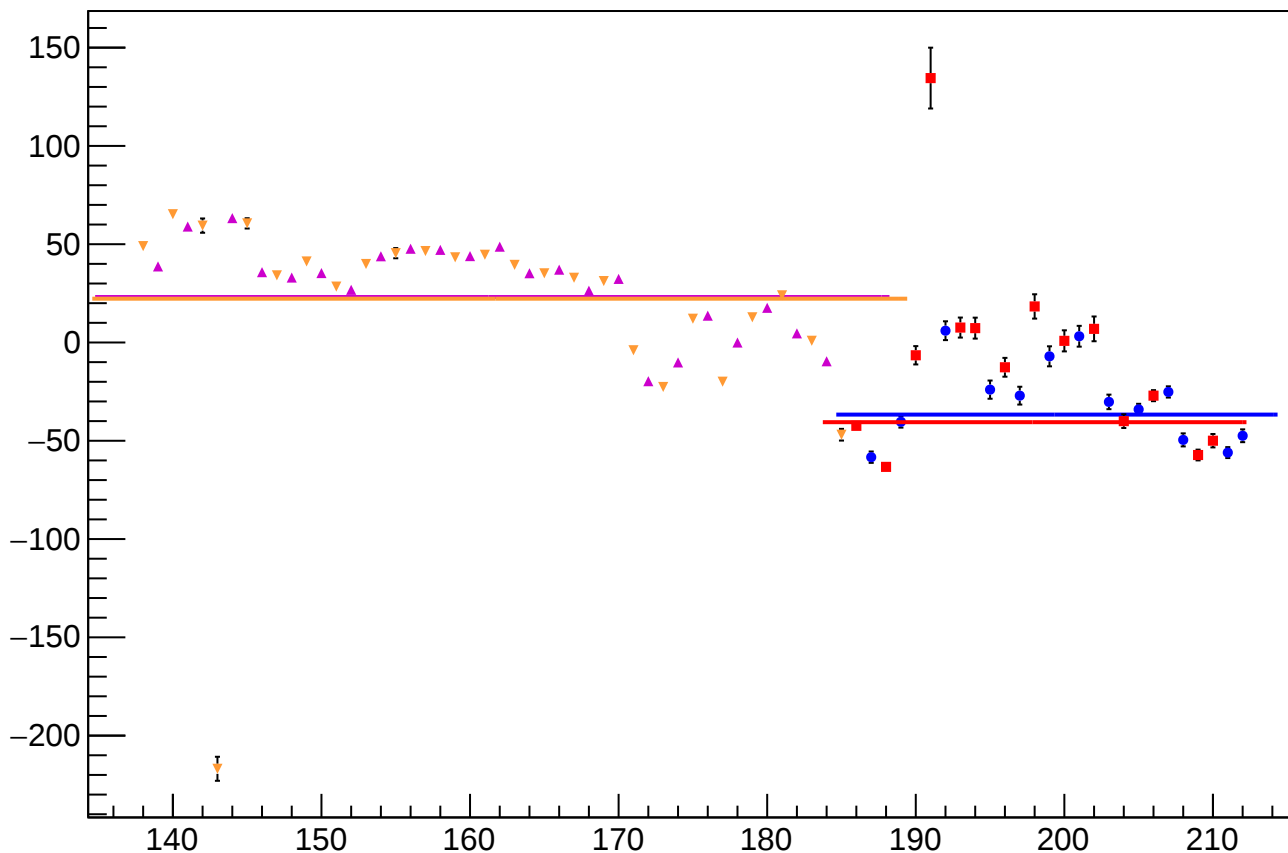
Right: -241.231+/-0.083 χ^2 /NDF: 355238.4/62

In: -261.016+/-0.068 χ^2 /NDF:287044.1/52

Out: -251.877+/-0.065 χ^2 /NDF:448518.8/57

All: -256.244+/-0.047 χ^2 /NDF: 745079.4/110

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -36.686 ± 0.963 χ^2/NDF : 334.0/12

Left Out: 22.279 ± 0.399 χ^2/NDF : 5171.0/24

Right Out: -40.546 ± 0.839 χ^2/NDF : 873.3/13

Left In: 23.136 ± 0.401 χ^2/NDF : 2744.7/22

Left: 22.705 ± 0.283 χ^2/NDF : 7918.0/47

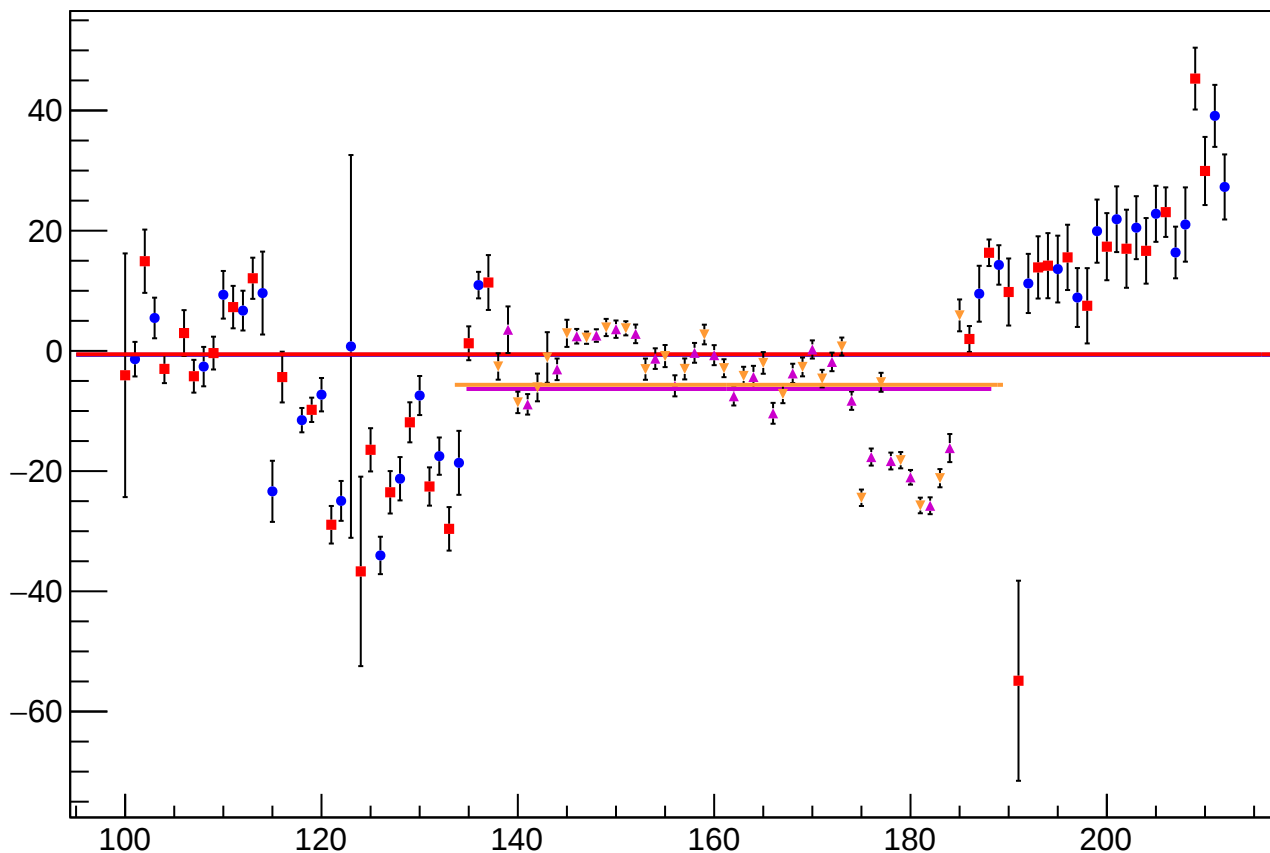
Right: -38.879 ± 0.633 χ^2/NDF : 1216.4/26

In: 14.276 ± 0.371 χ^2/NDF : 6367.4/35

Out: 10.711 ± 0.360 χ^2/NDF : 10615.0/38

All: 12.443 ± 0.258 χ^2/NDF : 17029.9/74

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.649 ± 0.680 χ^2/NDF : 575.9/29

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -0.567 ± 0.629 χ^2/NDF : 601.5/32

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

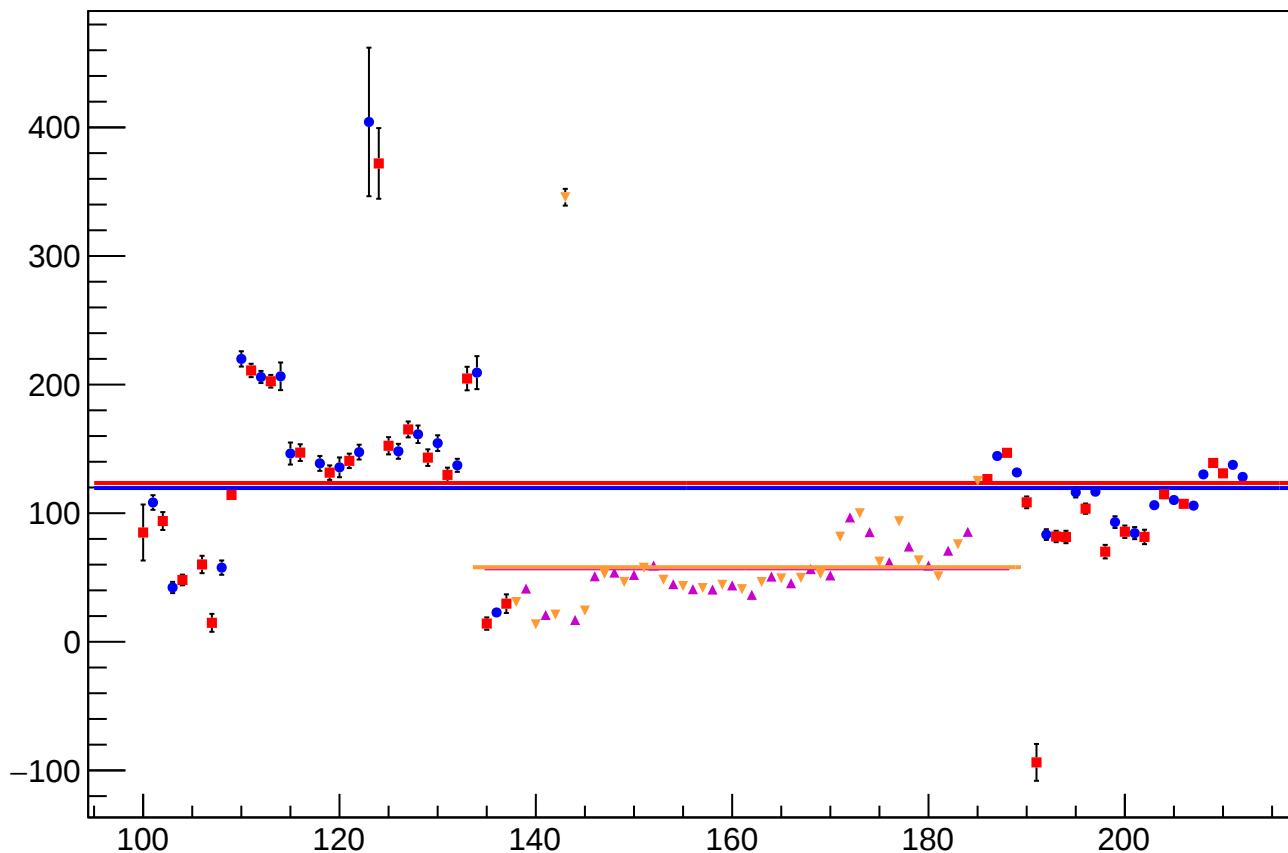
Right: -0.605 ± 0.462 χ^2/NDF : 1177.4/62

In: -5.301 ± 0.290 χ^2/NDF : 1416.0/52

Out: -4.622 ± 0.282 χ^2/NDF : 1547.2/57

All: -4.951 ± 0.202 χ^2/NDF : 2966.0/110

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 119.553 $\pm$ 0.755 χ^2 /NDF: 2568.7/29

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 123.493 $\pm$ 0.641 χ^2 /NDF: 3251.3/32

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

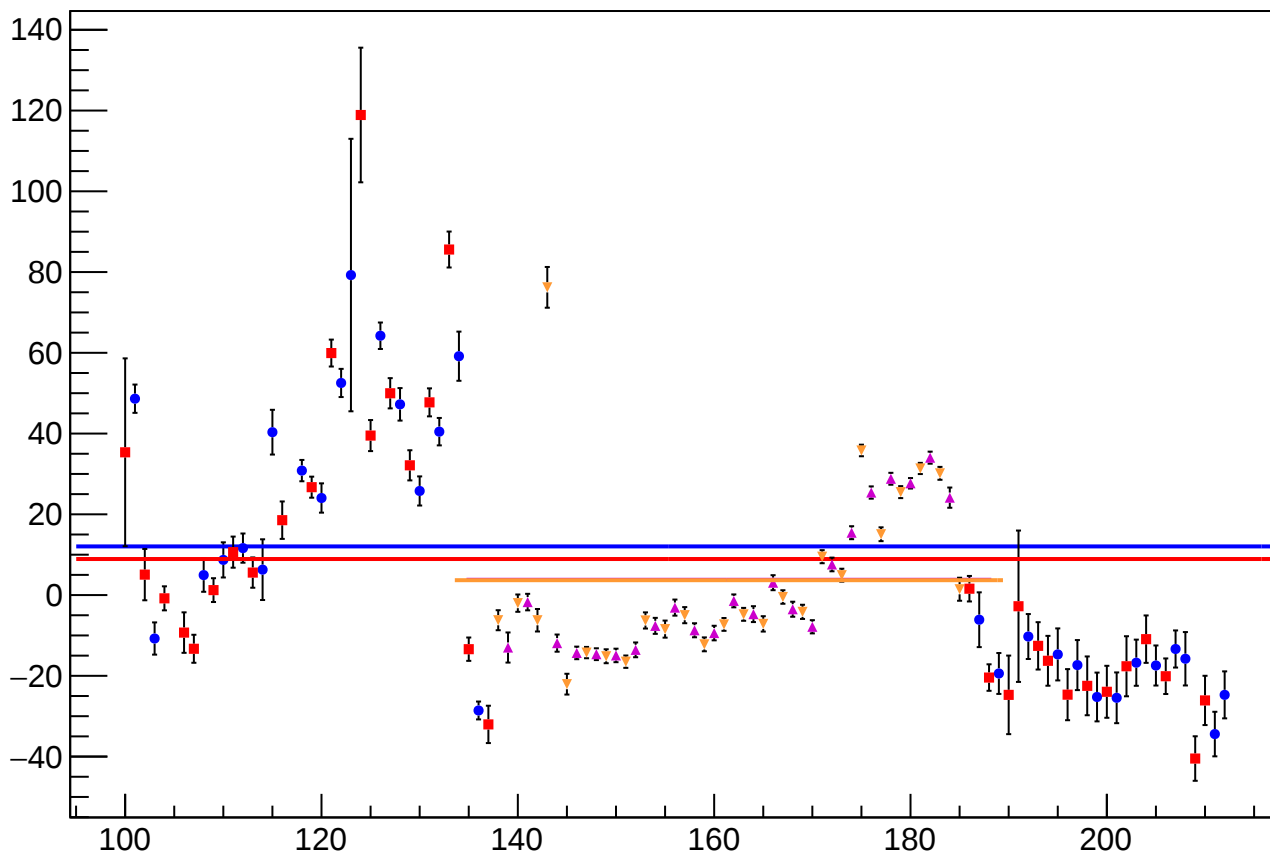
Right: 121.842 $\pm$ 0.489 χ^2 /NDF: 5835.9/62

In: 70.793 $\pm$ 0.353 χ^2 /NDF:9710.3/52

Out: 76.204 $\pm$ 0.338 χ^2 /NDF:15420.9/57

All: 73.616 $\pm$ 0.244 χ^2 /NDF: 25253.7/110

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.051+/-0.782 χ^2/NDF : 1578.0/29

Left Out: 3.684+/-0.357 χ^2/NDF :2541.7/24

Right Out: 8.929+/-0.745 χ^2/NDF : 1566.3/32

Left In: 3.786+/-0.362 χ^2/NDF :2198.8/22

Left: 3.734+/-0.254 χ^2/NDF : 4740.5/47

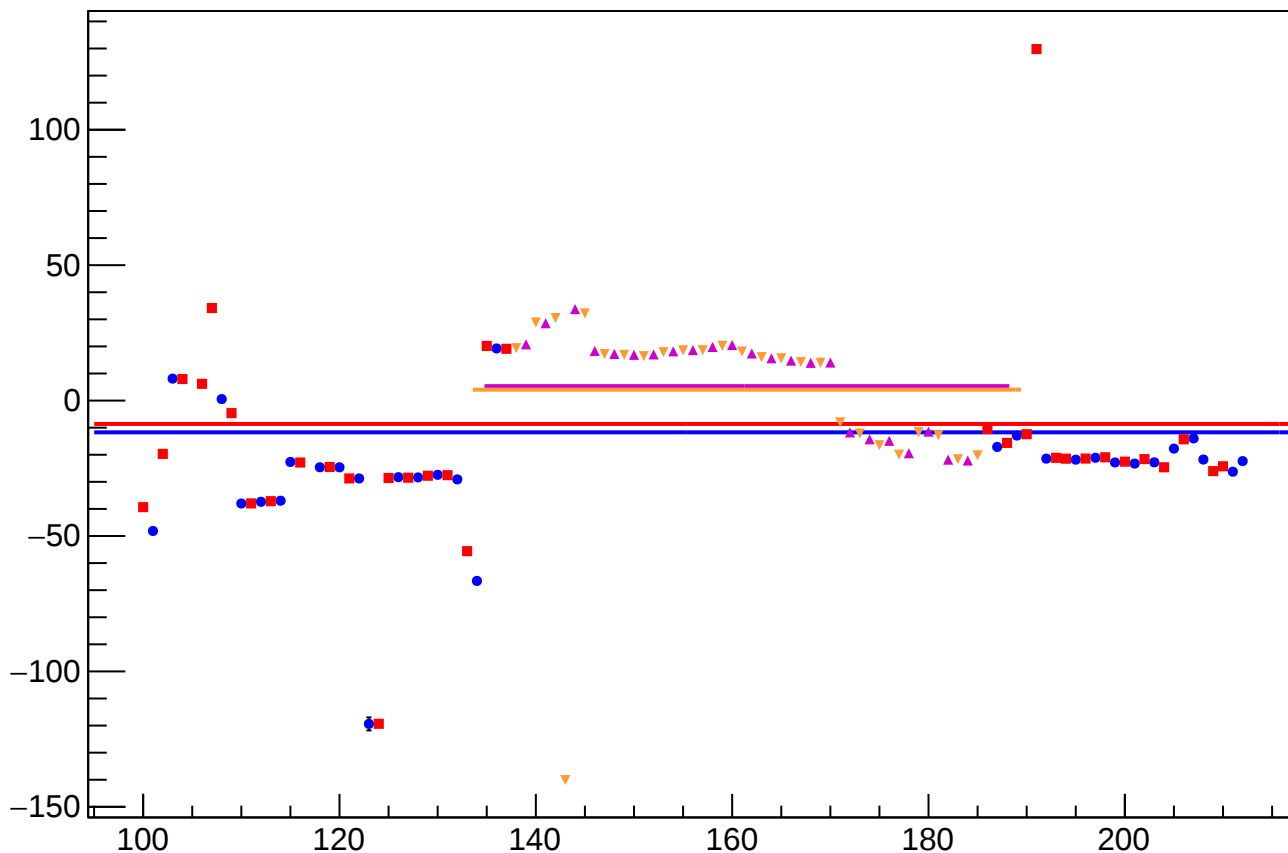
Right: 10.414+/-0.540 χ^2/NDF : 3152.6/62

In: 5.241+/-0.328 χ^2/NDF :3868.7/52

Out: 4.663+/-0.322 χ^2/NDF :4148.3/57

All: 4.946+/-0.230 χ^2/NDF : 8018.6/110

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -11.722+/-0.036 χ^2/NDF : 303691.4/29

Left Out: 4.026+/-0.016 χ^2/NDF :1383143.9/24

Right Out: -8.629+/-0.036 χ^2/NDF : 395198.4/32

Left In: 5.335+/-0.016 χ^2/NDF :1077818.8/22

Left: 4.678+/-0.012 χ^2/NDF : 2464153.9/47

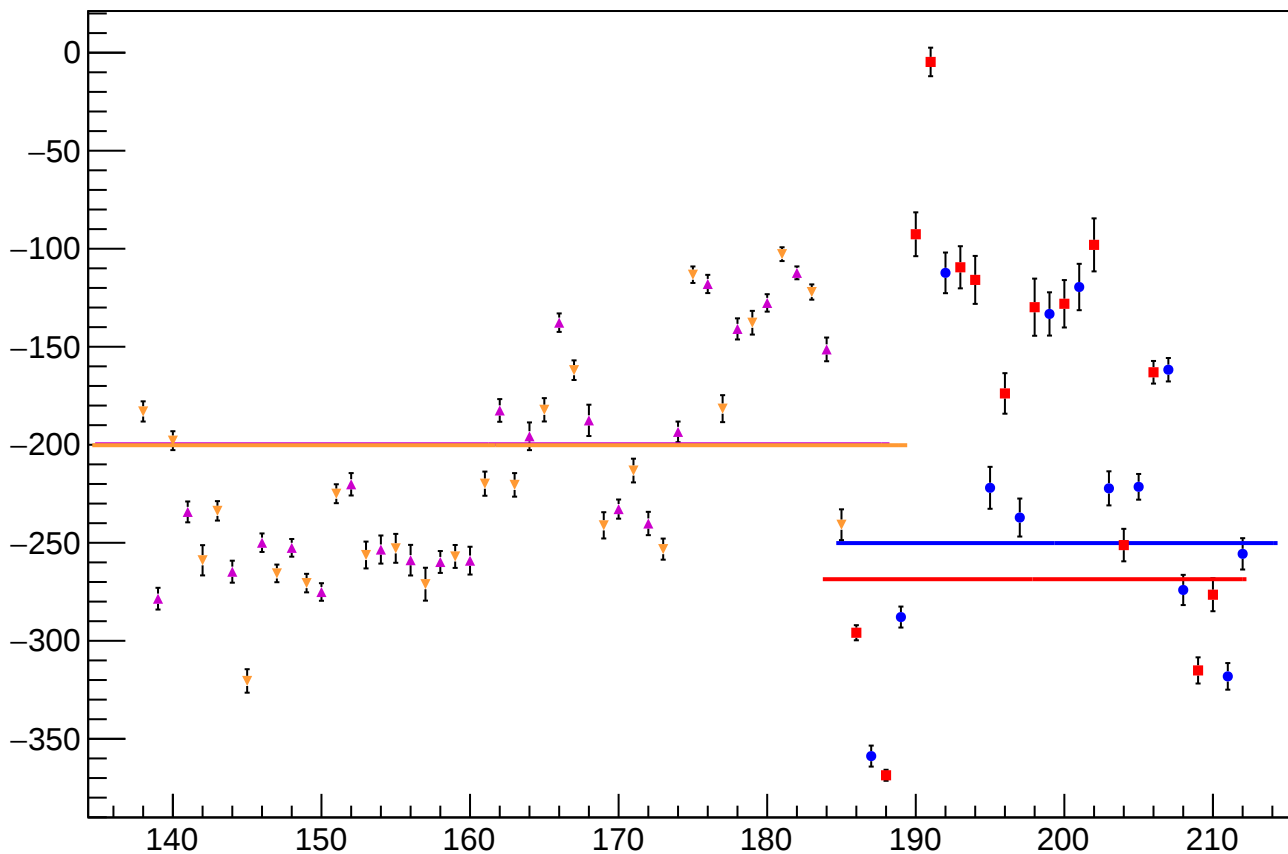
Right: -10.143+/-0.025 χ^2/NDF : 702574.0/62

In: 2.452+/-0.015 χ^2/NDF :1563845.4/52

Out: 1.823+/-0.015 χ^2/NDF :1882427.0/57

All: 2.135+/-0.011 χ^2/NDF : 3447159.4/110

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -250.152 $\pm$ 2.074 χ^2/NDF : 1239.4/12

Left Out: -200.228 $\pm$ 1.078 χ^2/NDF :3225.0/24

Right Out: -268.574 $\pm$ 1.706 χ^2/NDF : 4108.7/13

Left In: -199.739 $\pm$ 1.097 χ^2/NDF :2968.0/22

Left: -199.988 $\pm$ 0.769 χ^2/NDF : 6193.2/47

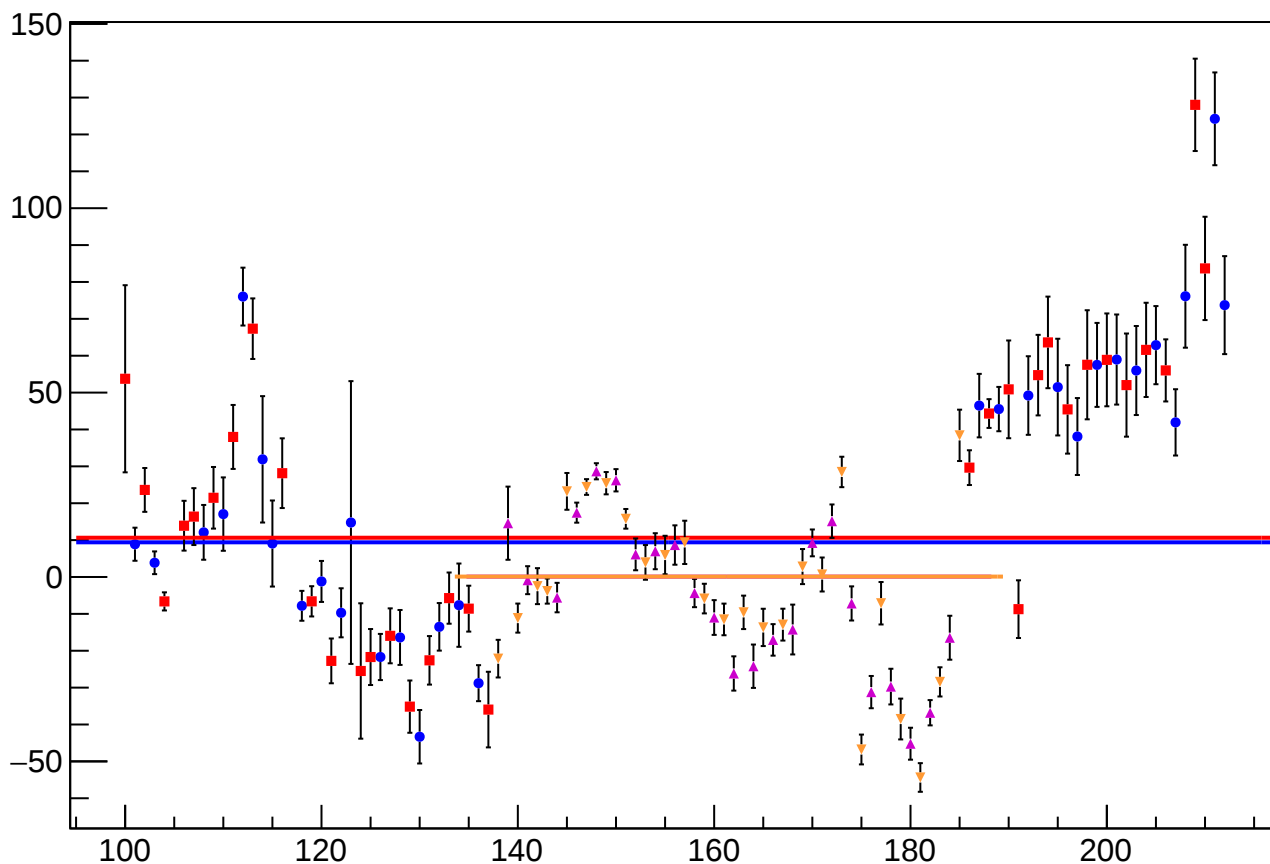
Right: -261.137 $\pm$ 1.318 χ^2/NDF : 5395.2/26

In: -210.767 $\pm$ 0.970 χ^2/NDF :4669.1/35

Out: -219.720 $\pm$ 0.911 χ^2/NDF :8480.4/38

All: -215.522 $\pm$ 0.664 χ^2/NDF : 13194.8/74

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.401 ± 1.304 χ^2/NDF : 577.3/29

Left Out: 0.109 ± 0.807 χ^2/NDF : 831.2/24

Right Out: 10.646 ± 1.183 χ^2/NDF : 648.8/32

Left In: 0.097 ± 0.838 χ^2/NDF : 715.5/22

Left: 0.103 ± 0.581 χ^2/NDF : 1546.7/47

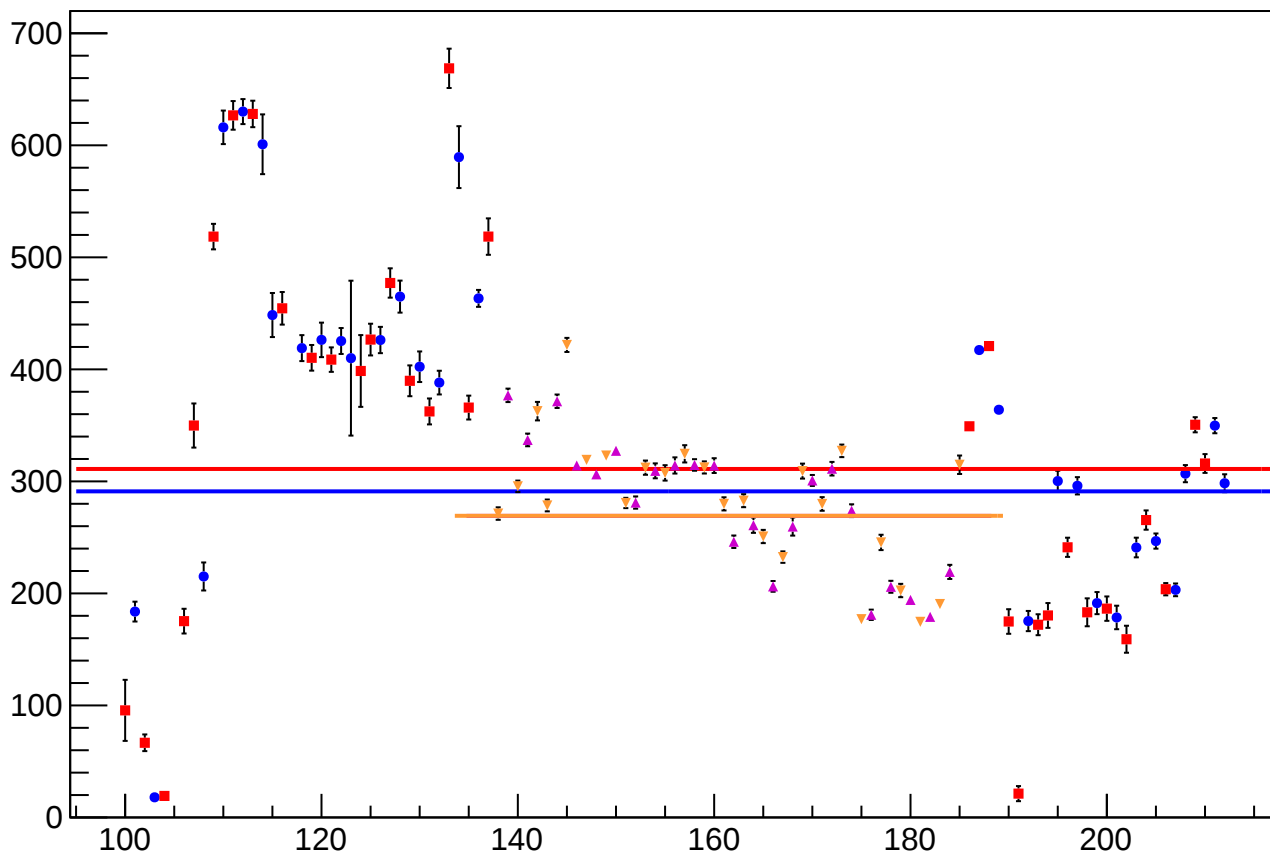
Right: 10.084 ± 0.876 χ^2/NDF : 1226.6/62

In: 2.815 ± 0.705 χ^2/NDF : 1328.8/52

Out: 3.455 ± 0.667 χ^2/NDF : 1534.2/57

All: 3.153 ± 0.484 χ^2/NDF : 2863.4/110

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 291.095 $\pm$ 1.502 χ^2 /NDF: 9592.4/29

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 311.086 $\pm$ 1.255 χ^2 /NDF: 14395.9/32

Left In: 269.191 $\pm$ 1.091 χ^2 /NDF:3170.2/22

Left: 269.235 $\pm$ 0.767 χ^2 /NDF: 6316.9/47

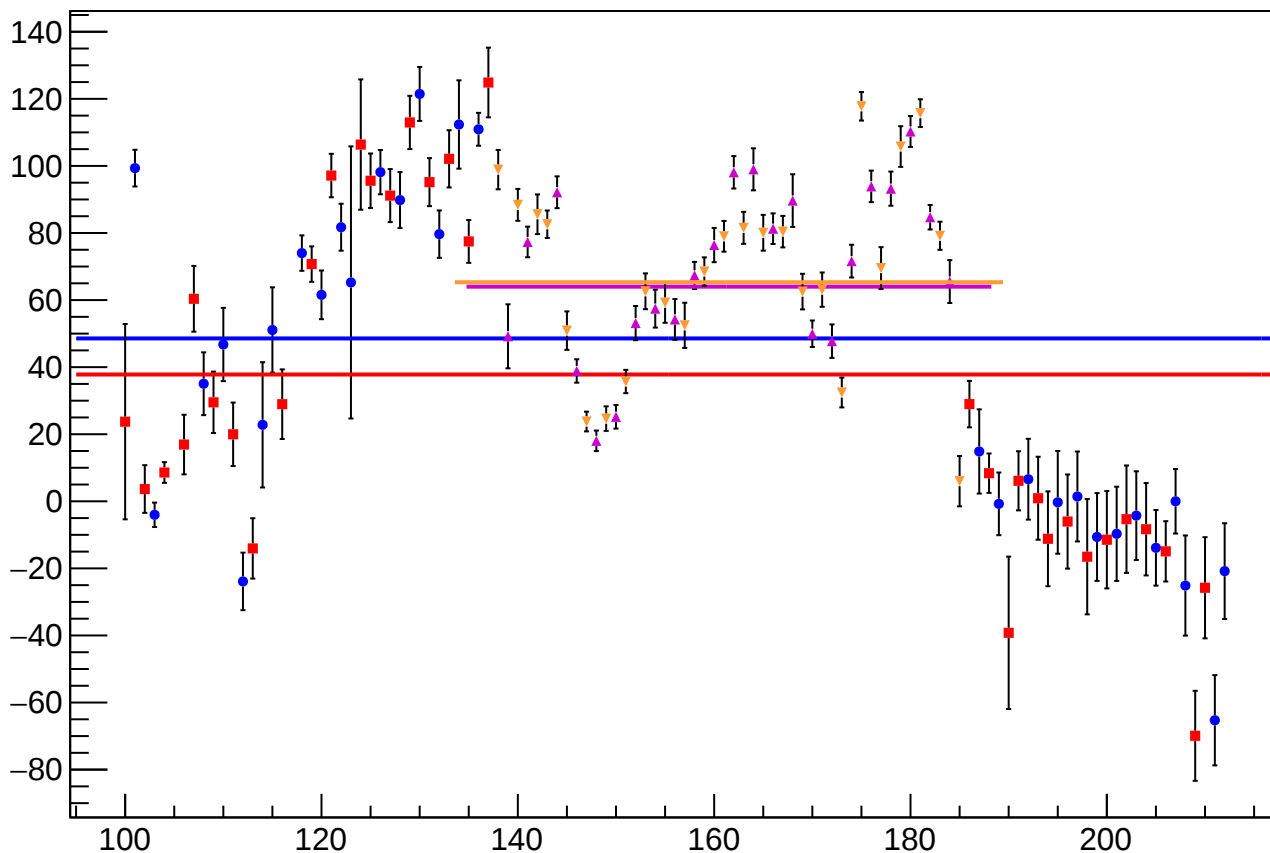
Right: 302.868 $\pm$ 0.963 χ^2 /NDF: 24092.8/62

In: 276.756 $\pm$ 0.882 χ^2 /NDF:12902.0/52

Out: 287.028 $\pm$ 0.817 χ^2 /NDF:18181.7/57

All: 282.284 $\pm$ 0.600 χ^2 /NDF: 31156.6/110

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 48.562 ± 1.521 χ^2/NDF : 1086.2/29

Left Out: 65.323 ± 0.935 χ^2/NDF : 1007.1/24

Right Out: 37.808 ± 1.427 χ^2/NDF : 951.1/32

Left In: 63.999 ± 0.963 χ^2/NDF : 799.5/22

Left: 64.681 ± 0.671 χ^2/NDF : 1807.5/47

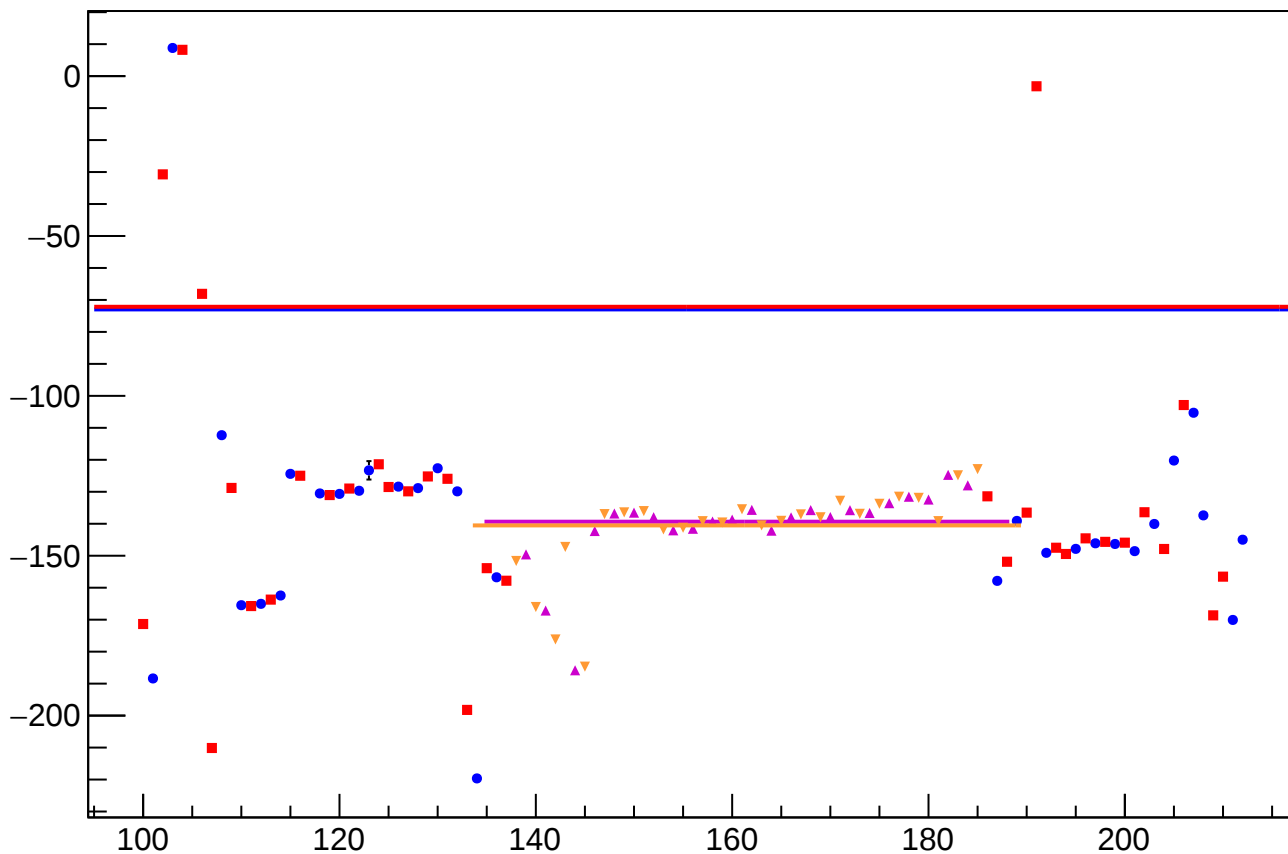
Right: 42.842 ± 1.041 χ^2/NDF : 2063.9/62

In: 59.584 ± 0.814 χ^2/NDF : 1959.2/52

Out: 57.064 ± 0.782 χ^2/NDF : 2218.3/57

All: 58.274 ± 0.564 χ^2/NDF : 4182.5/110

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -72.962 ± 0.062 $\chi^2/\text{NDF}: 1585222.6/29$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -72.143 ± 0.060 $\chi^2/\text{NDF}: 1425128.6/32$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

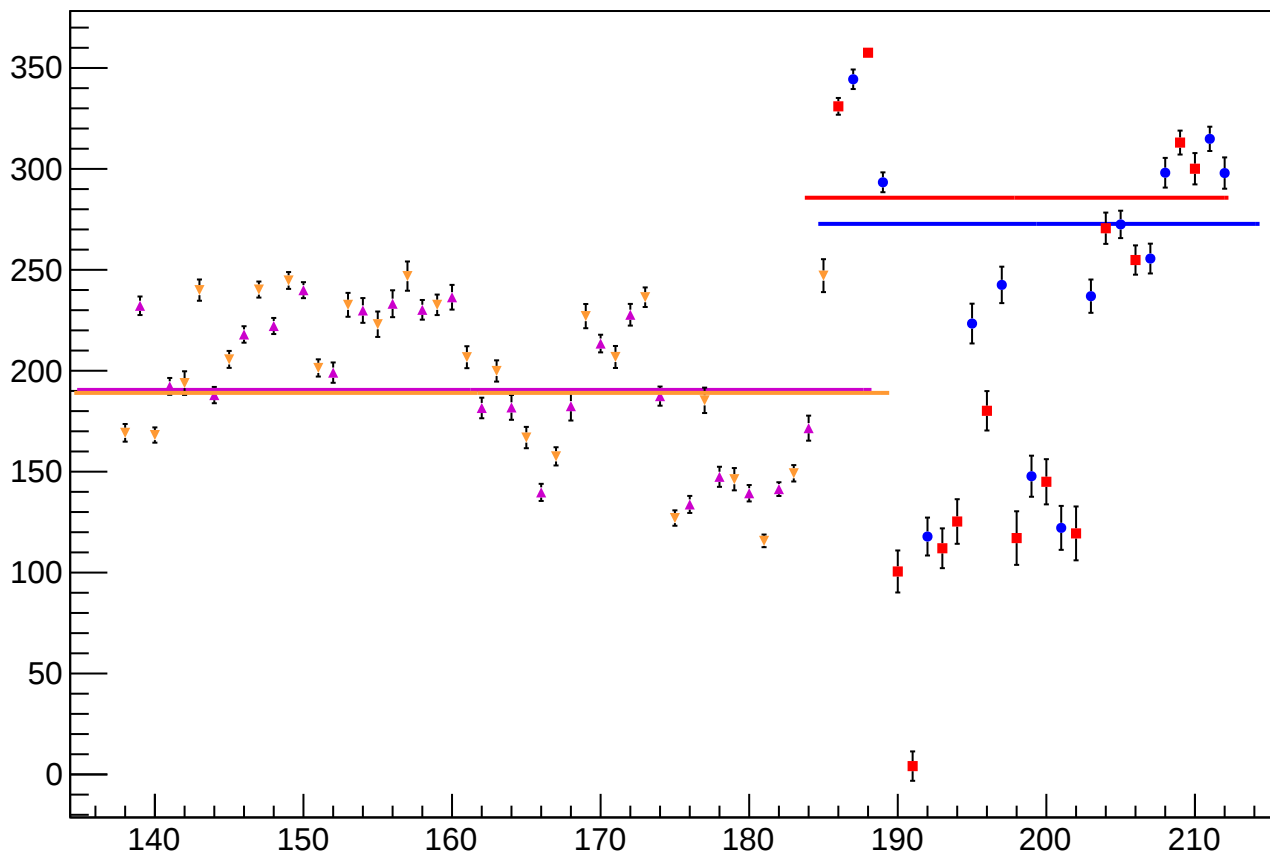
Right: -72.542 ± 0.043 $\chi^2/\text{NDF}: 3010441.0/62$

In: -116.391 ± 0.036 $\chi^2/\text{NDF}: 2400464.8/52$

Out: -116.401 ± 0.036 $\chi^2/\text{NDF}: 2333405.9/57$

All: -116.396 ± 0.026 $\chi^2/\text{NDF}: 4733870.7/111$

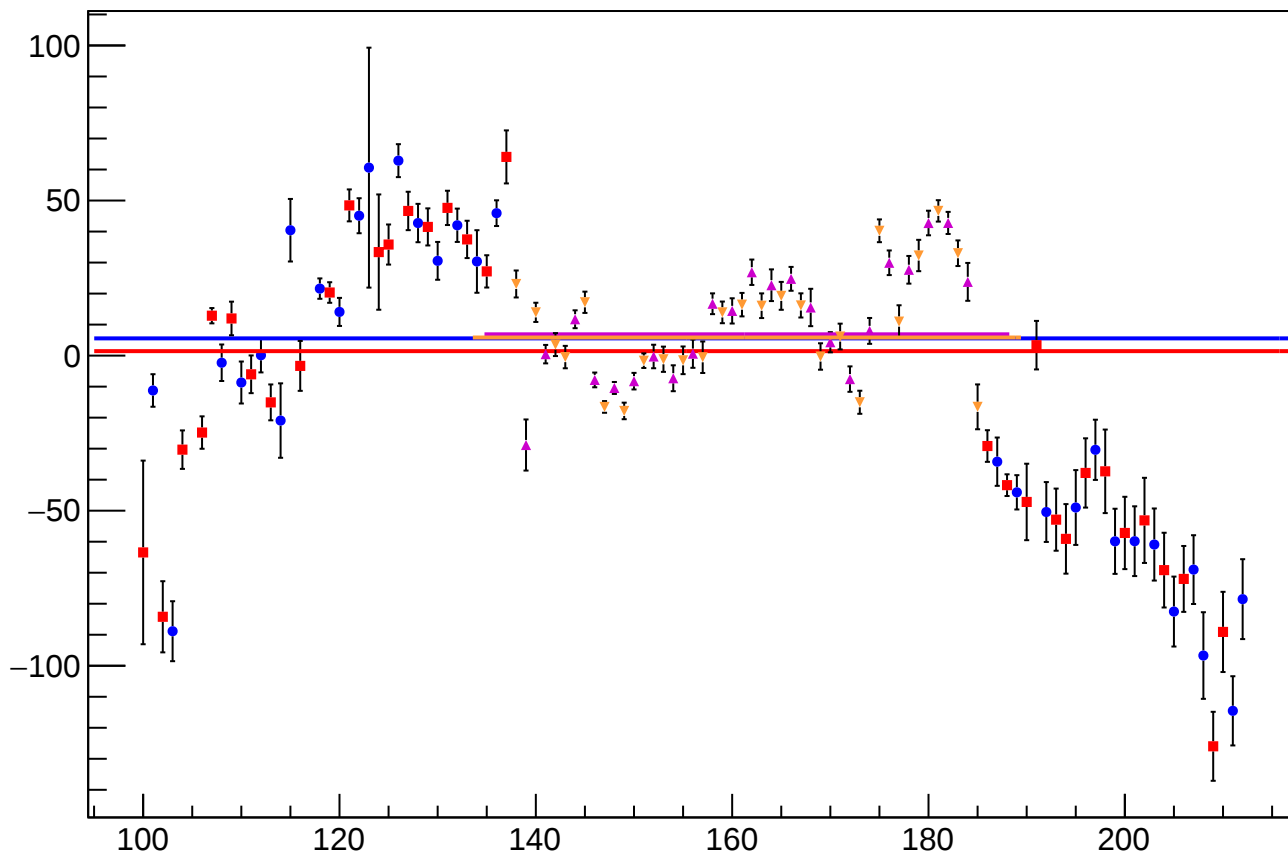
reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 272.766 $\pm$ 1.986 χ^2 /NDF: 982.9/12
 Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24
 Right Out: 285.722 $\pm$ 1.635 χ^2 /NDF: 3913.3/13
 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: 280.490 $\pm$ 1.262 χ^2 /NDF: 4921.5/26
 In: 206.484 $\pm$ 0.875 χ^2 /NDF:3777.9/35
 Out: 213.670 $\pm$ 0.825 χ^2 /NDF:8501.7/38
 All: 210.288 $\pm$ 0.600 χ^2 /NDF: 12315.3/74

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.556 ± 1.242 χ^2/NDF : 1122.3/29

Left Out: 5.834 ± 0.712 χ^2/NDF : 652.2/24

Right Out: 1.442 ± 1.066 χ^2/NDF : 1162.7/32

Left In: 6.862 ± 0.736 χ^2/NDF : 522.7/22

Left: 6.331 ± 0.512 χ^2/NDF : 1176.0/47

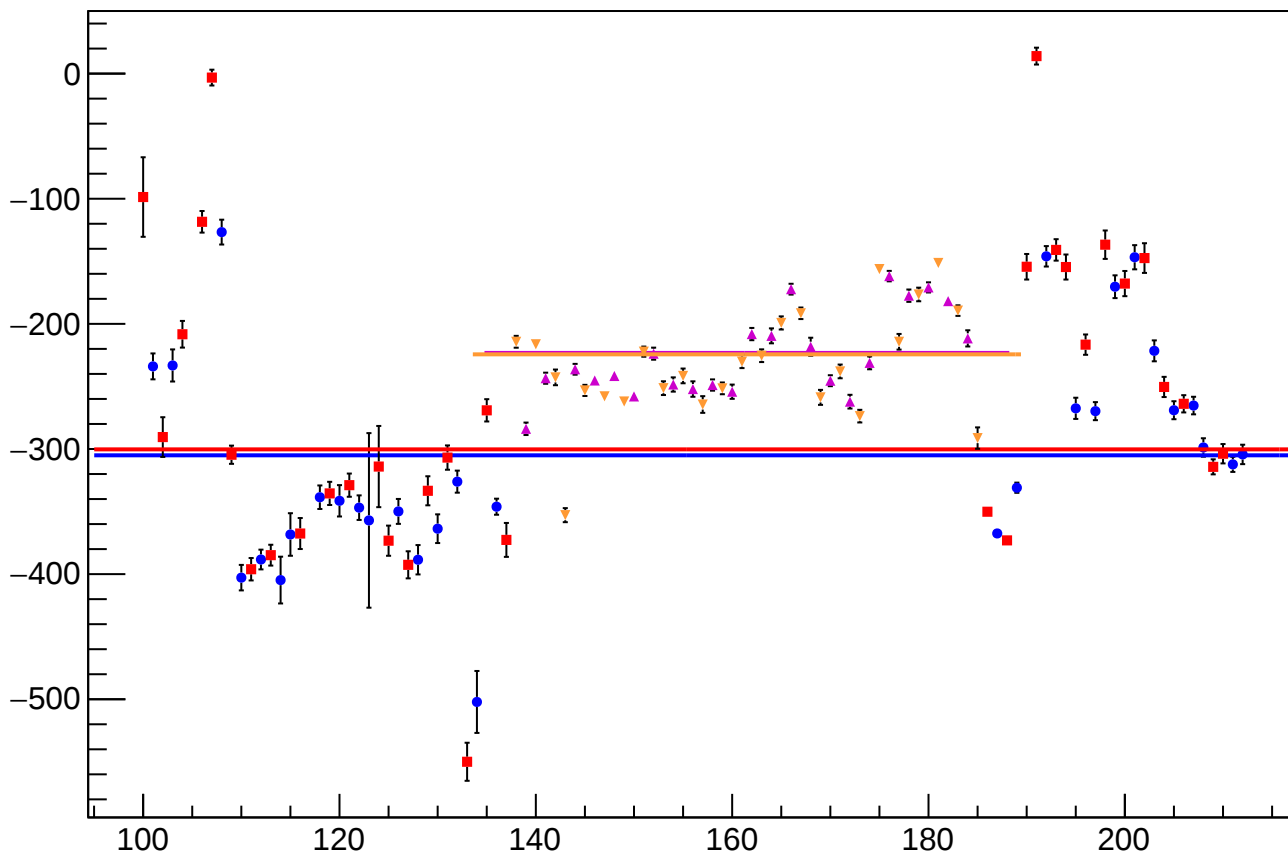
Right: 3.188 ± 0.809 χ^2/NDF : 2291.3/62

In: 6.522 ± 0.633 χ^2/NDF : 1645.9/52

Out: 4.479 ± 0.592 χ^2/NDF : 1826.7/57

All: 5.432 ± 0.433 χ^2/NDF : 3478.1/110

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -305.052+/-1.473 χ^2/NDF : 2250.5/29

Left Out: -224.364+/-0.956 χ^2/NDF :2103.2/24

Right Out: -300.299+/-1.196 χ^2/NDF : 8664.7/32

Left In: -223.223+/-0.969 χ^2/NDF :1269.3/22

Left: -223.801+/-0.681 χ^2/NDF : 3373.2/47

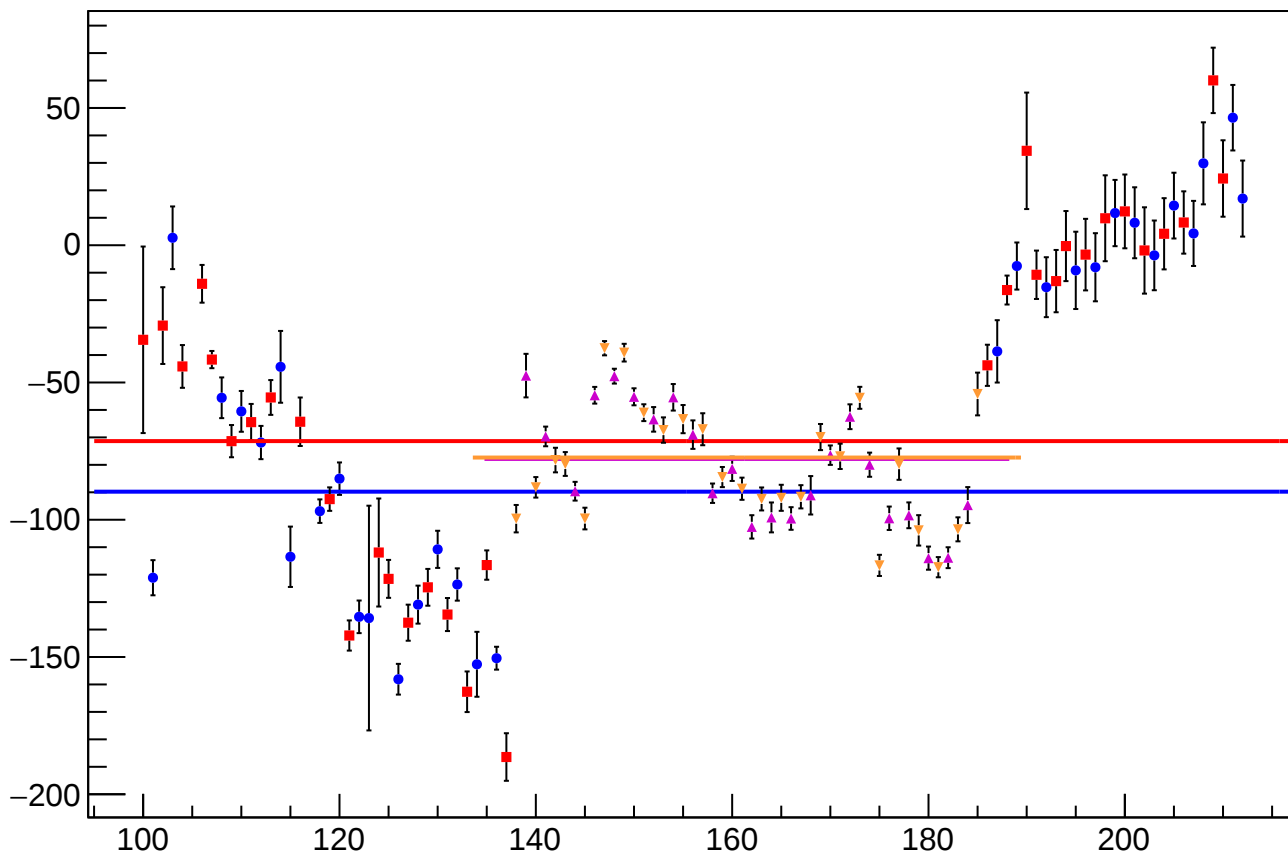
Right: -302.187+/-0.929 χ^2/NDF : 10921.5/62

In: -247.934+/-0.810 χ^2/NDF :5672.6/52

Out: -253.957+/-0.747 χ^2/NDF :13226.6/57

All: -251.188+/-0.549 χ^2/NDF : 18929.0/110

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -89.775 ± 1.441 $\chi^2/\text{NDF}: 1484.2/29$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -71.351 ± 1.276 $\chi^2/\text{NDF}: 1728.1/32$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

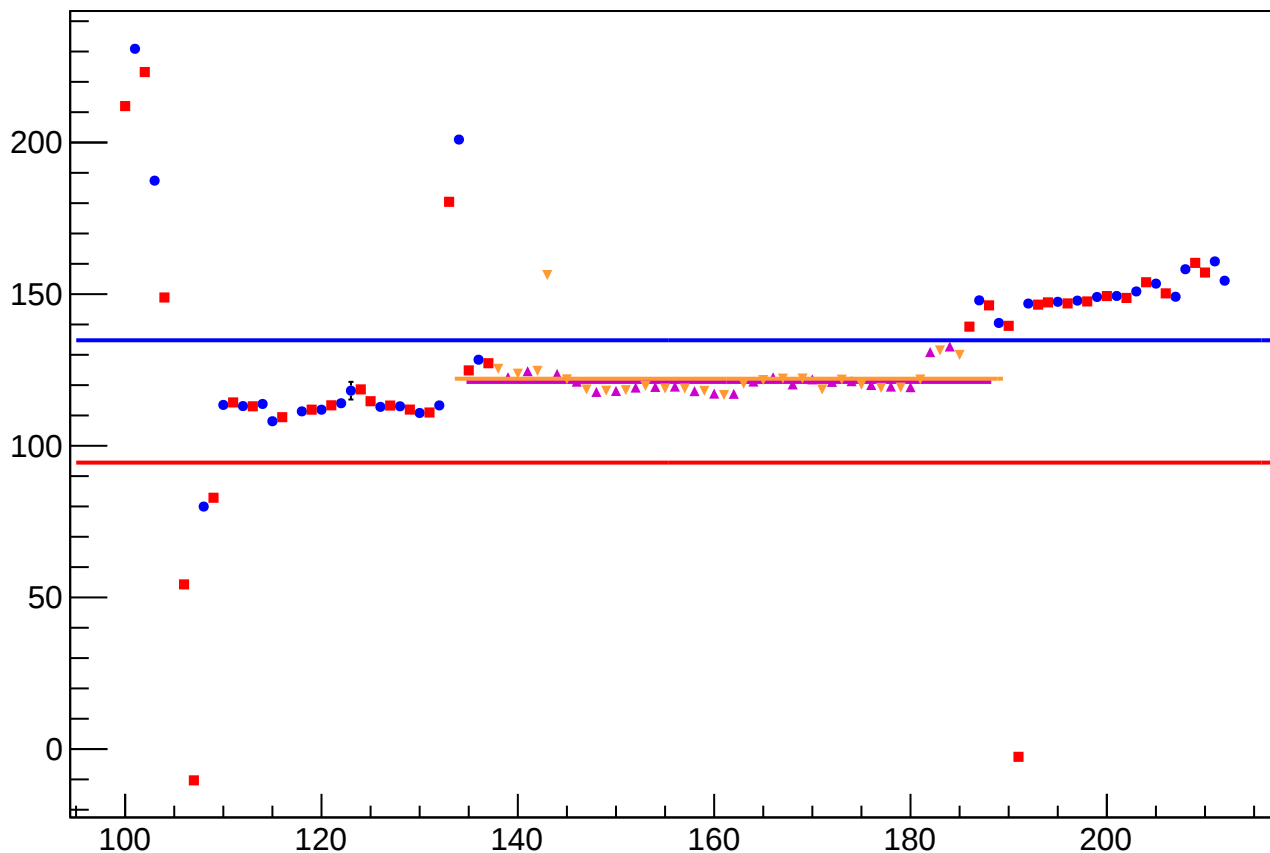
Right: -79.448 ± 0.956 $\chi^2/\text{NDF}: 3303.8/62$

In: -80.912 ± 0.731 $\chi^2/\text{NDF}: 2157.9/52$

Out: -75.573 ± 0.694 $\chi^2/\text{NDF}: 2589.8/57$

All: -78.102 ± 0.503 $\chi^2/\text{NDF}: 4775.8/110$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 134.790 $\pm$ 0.073 χ^2 /NDF: 209374.2/29

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 94.459 $\pm$ 0.062 χ^2 /NDF: 1154148.3/32

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

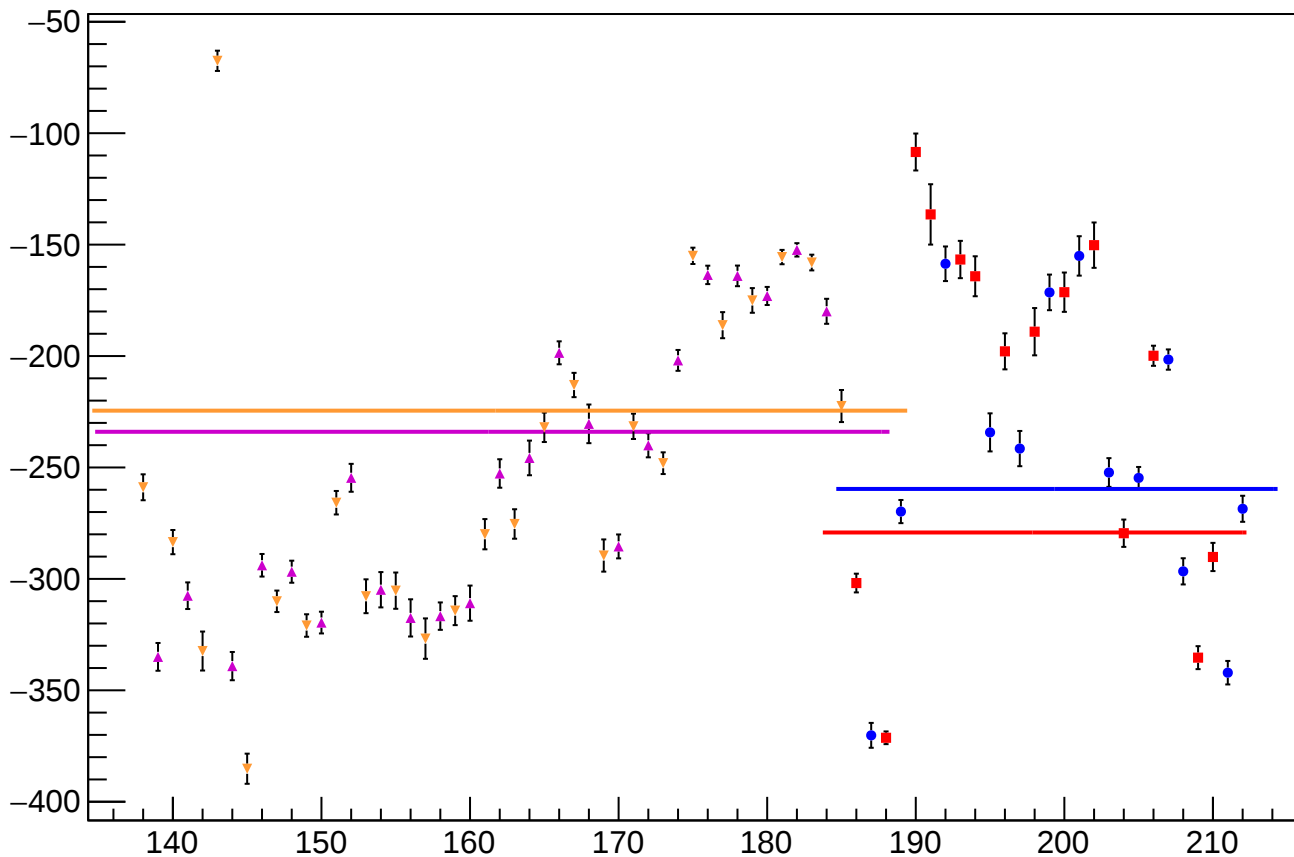
Right: 111.296 $\pm$ 0.047 χ^2 /NDF: 1542022.7/62

In: 124.204 $\pm$ 0.035 χ^2 /NDF:244695.3/52

Out: 114.099 $\pm$ 0.033 χ^2 /NDF:1327434.1/57

All: 118.903 $\pm$ 0.024 χ^2 /NDF: 1616139.6/110

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -259.635+/-1.686 χ^2/NDF : 1292.2/12

Left Out: -224.501+/-1.079 χ^2/NDF : 4870.6/24

Right Out: -279.175+/-1.559 χ^2/NDF : 2899.6/13

Left In: -233.988+/-1.109 χ^2/NDF : 3538.4/22

Left: -229.116+/-0.773 χ^2/NDF : 8446.6/47

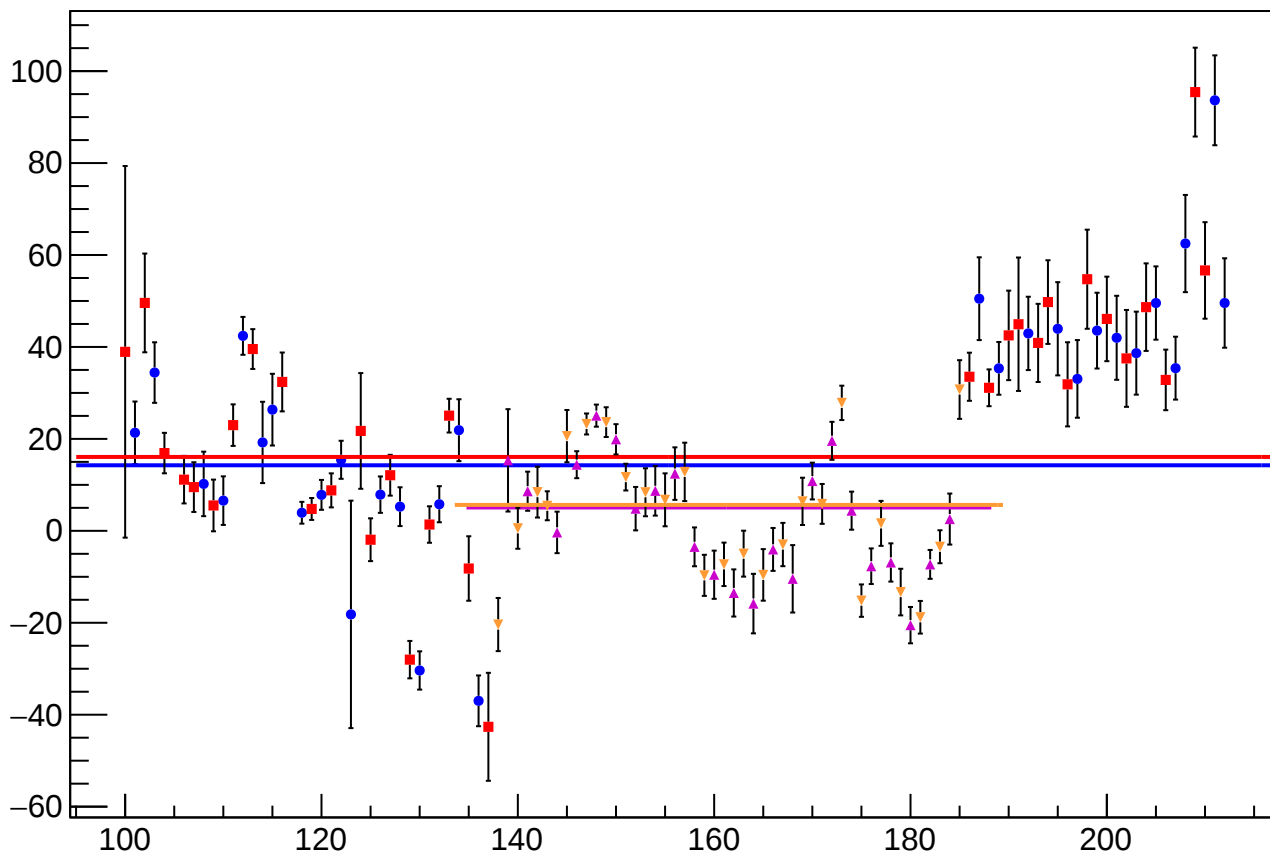
Right: -270.167+/-1.145 χ^2/NDF : 4264.2/26

In: -241.727+/-0.926 χ^2/NDF : 4992.1/35

Out: -242.202+/-0.887 χ^2/NDF : 8601.4/38

All: -241.975+/-0.641 χ^2/NDF : 13593.6/74

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.259 $\pm$ 0.997 χ^2 /NDF: 515.5/29

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 16.072 $\pm$ 0.952 χ^2 /NDF: 460.6/32

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

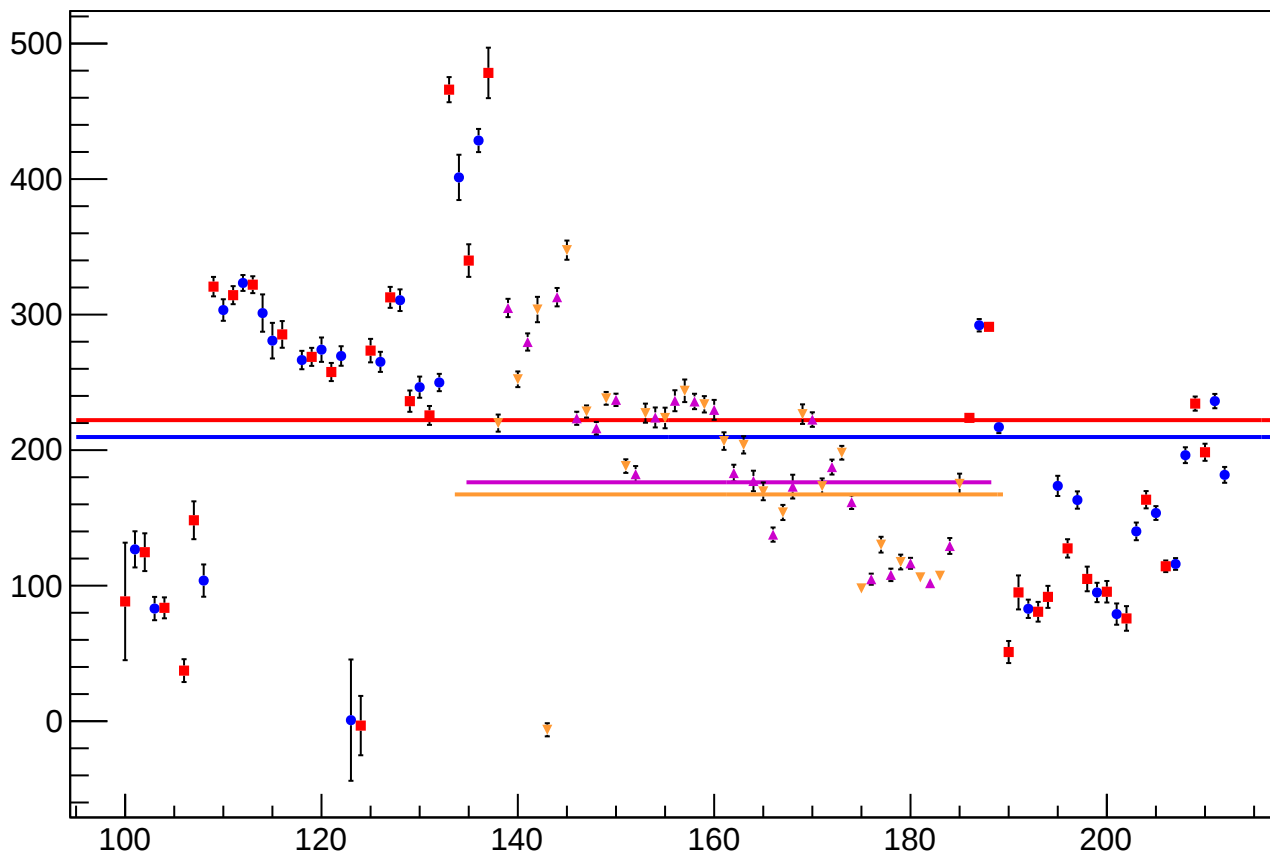
Right: 15.207 $\pm$ 0.688 χ^2 /NDF: 977.9/62

In: 9.043 $\pm$ 0.655 χ^2 /NDF:803.4/52

Out: 10.133 $\pm$ 0.625 χ^2 /NDF:842.7/57

All: 9.614 $\pm$ 0.452 χ^2 /NDF: 1647.6/110

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 209.664 $\pm$ 1.253 χ^2 /NDF: 4243.9/29

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 222.134 $\pm$ 1.125 χ^2 /NDF: 6590.6/32

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

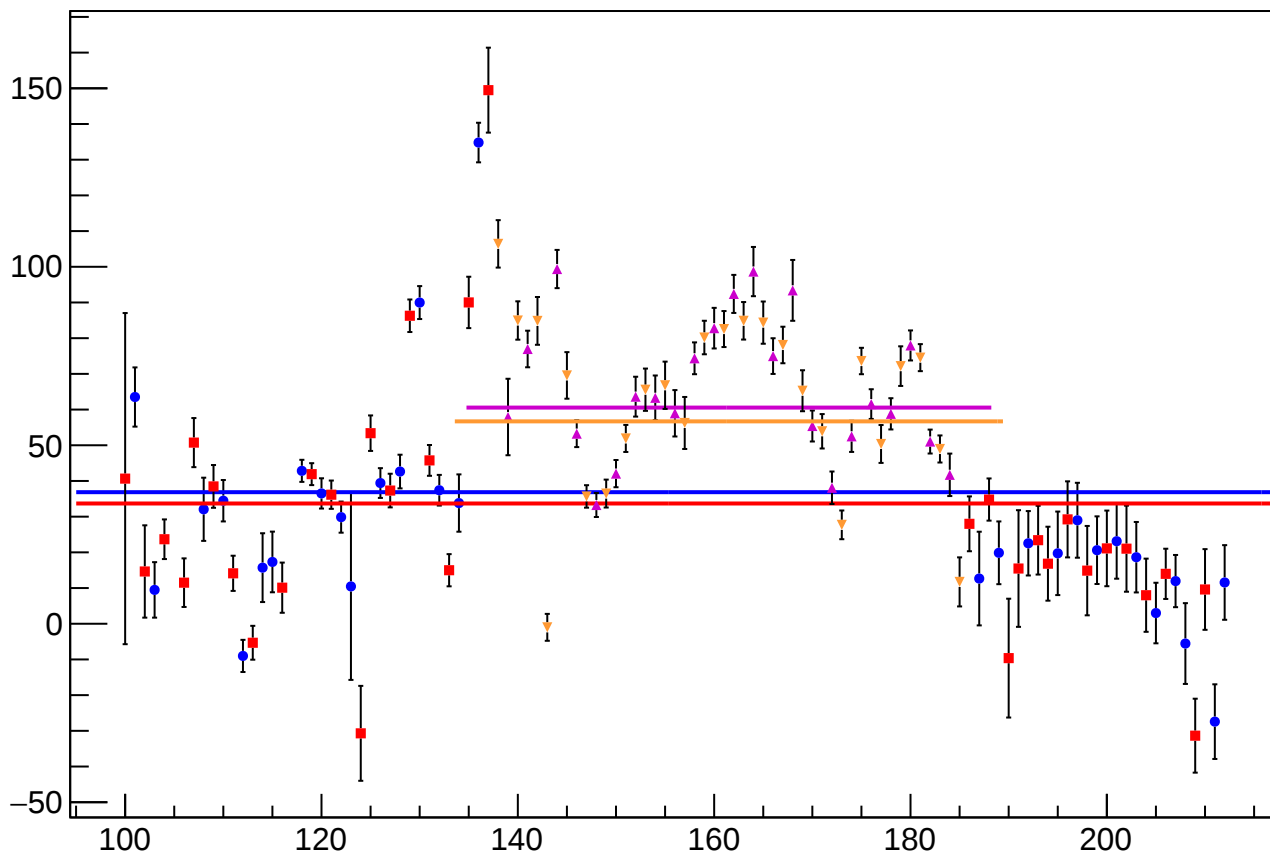
Right: 216.572 $\pm$ 0.837 χ^2 /NDF: 10889.3/62

In: 190.885 $\pm$ 0.829 χ^2 /NDF:7812.5/52

Out: 193.684 $\pm$ 0.780 χ^2 /NDF:12277.8/57

All: 192.370 $\pm$ 0.568 χ^2 /NDF: 20096.4/110

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.858 $\pm$ 1.155 χ^2 /NDF: 696.6/29

Left Out: 56.695 $\pm$ 0.952 χ^2 /NDF: 690.4/24

Right Out: 33.688 $\pm$ 1.115 χ^2 /NDF: 554.4/32

Left In: 60.555 $\pm$ 0.990 χ^2 /NDF: 335.6/22

Left: 58.548 $\pm$ 0.686 χ^2 /NDF: 1034.0/47

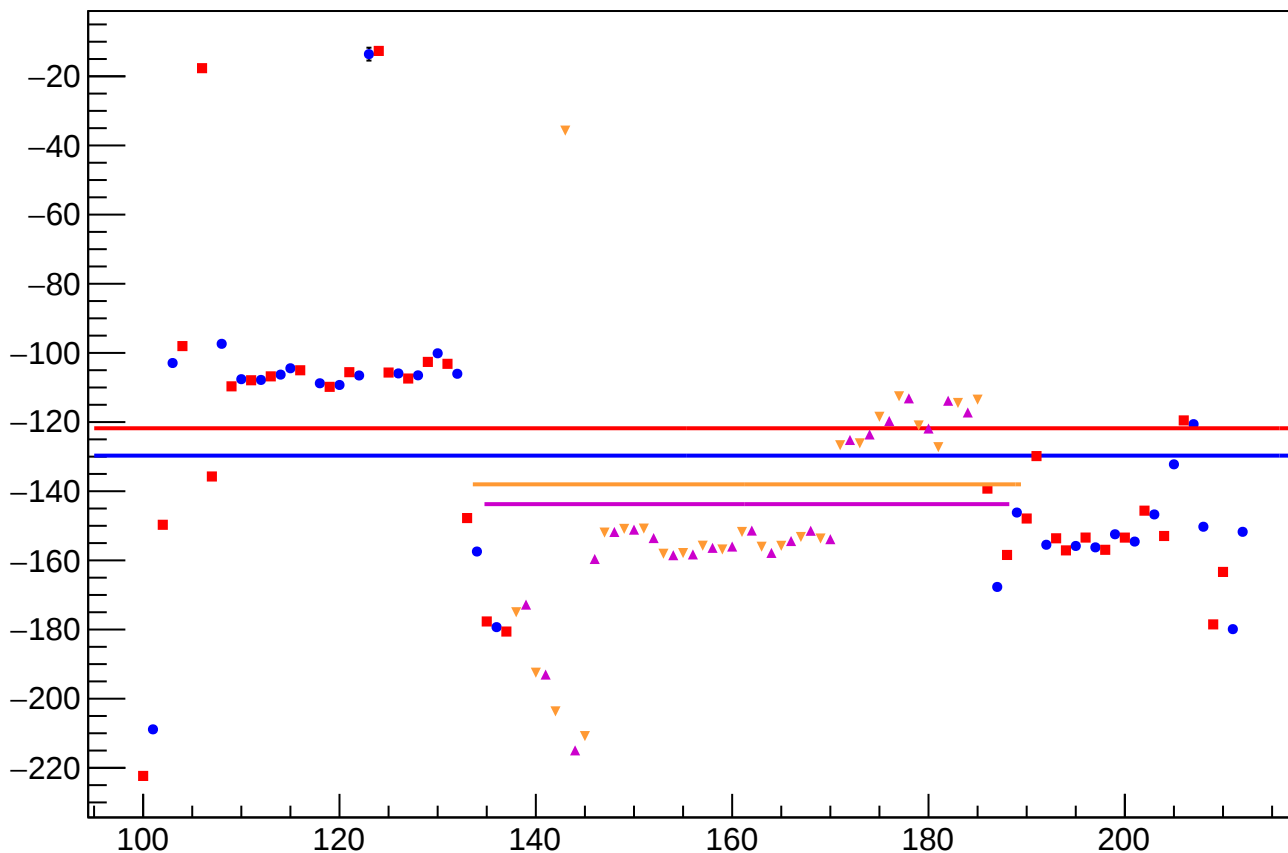
Right: 35.218 $\pm$ 0.802 χ^2 /NDF: 1254.9/62

In: 50.512 $\pm$ 0.752 χ^2 /NDF: 1275.0/52

Out: 46.997 $\pm$ 0.724 χ^2 /NDF: 1491.2/57

All: 48.688 $\pm$ 0.521 χ^2 /NDF: 2777.5/110

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -129.704+/-0.061 χ^2 /NDF: 221286.8/29

Left Out: -138.008+/-0.045 χ^2 /NDF:565767.2/24

Right Out: -121.791+/-0.058 χ^2 /NDF: 475816.8/32

Left In: -143.735+/-0.046 χ^2 /NDF:258408.3/22

Left: -140.811+/-0.032 χ^2 /NDF: 832055.2/47

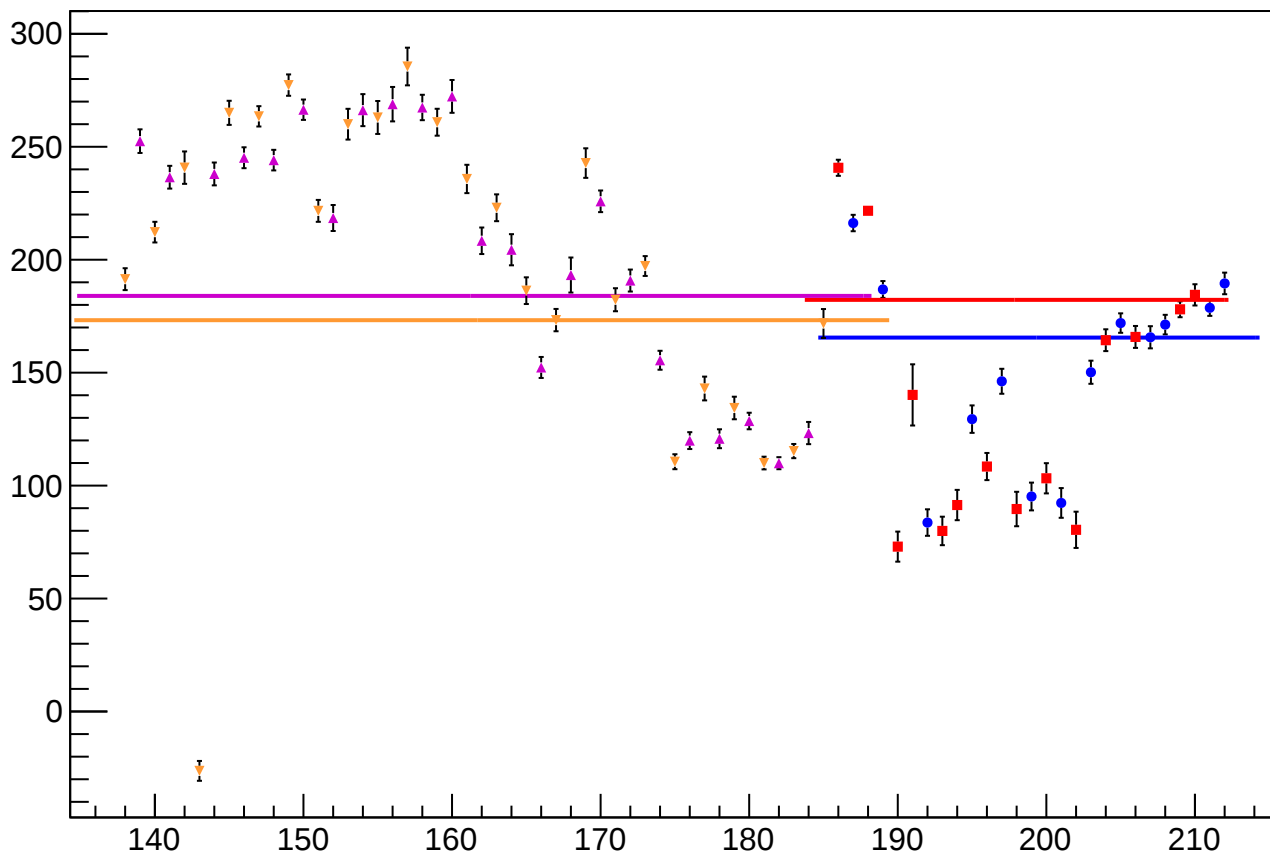
Right: -125.517+/-0.042 χ^2 /NDF: 705874.3/62

In: -138.684+/-0.037 χ^2 /NDF:513046.8/52

Out: -131.890+/-0.036 χ^2 /NDF:1090307.9/57

All: -135.168+/-0.026 χ^2 /NDF: 1620918.0/111

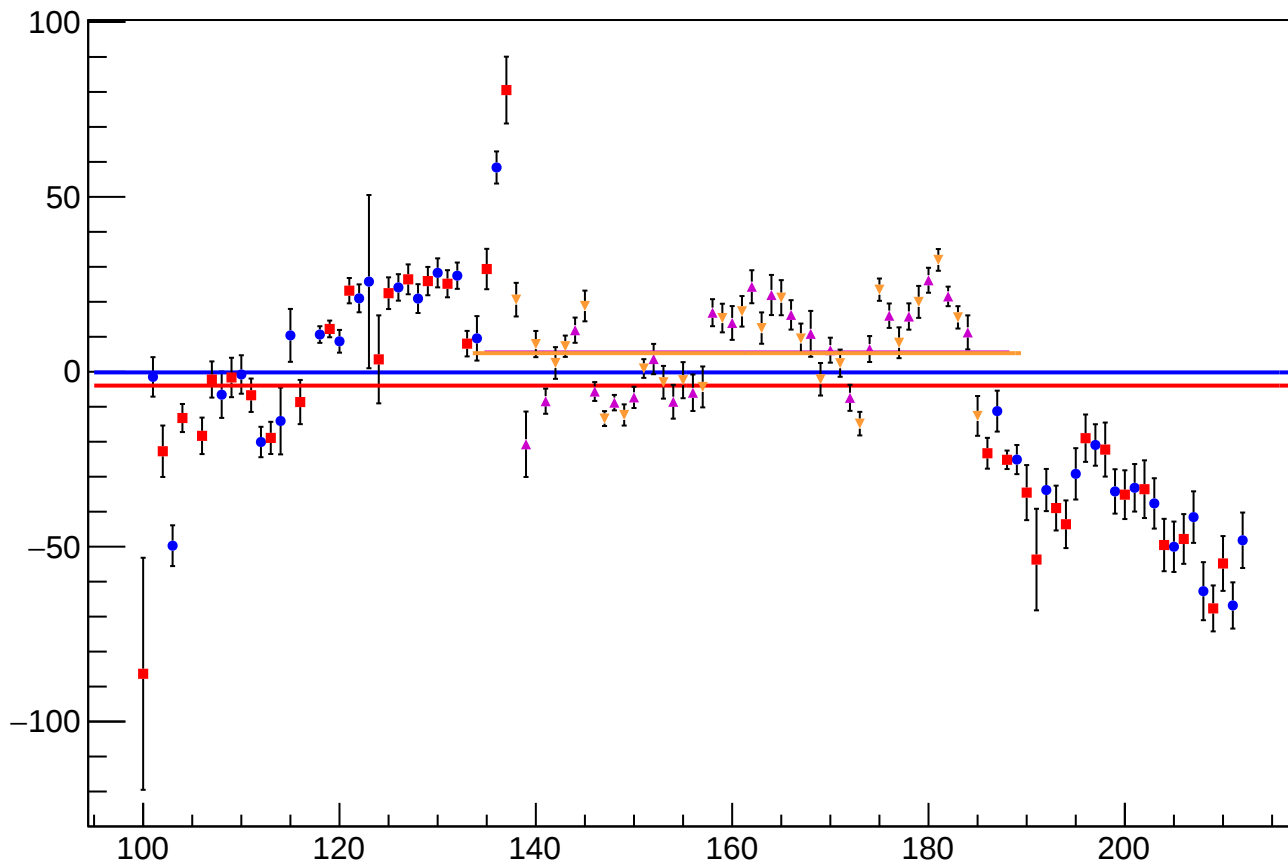
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 165.531 $\pm$ 1.296 χ^2 /NDF: 776.6/12
 Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF: 5846.0/24
 Right Out: 182.230 $\pm$ 1.165 χ^2 /NDF: 2068.3/13
 Left In: 183.984 $\pm$ 0.991 χ^2 /NDF: 3613.7/22

Left: 178.467 $\pm$ 0.692 χ^2 /NDF: 9520.1/47
 Right: 174.766 $\pm$ 0.866 χ^2 /NDF: 2936.8/26
 In: 177.174 $\pm$ 0.787 χ^2 /NDF: 4518.3/35
 Out: 176.895 $\pm$ 0.743 χ^2 /NDF: 7949.7/38
 All: 177.027 $\pm$ 0.540 χ^2 /NDF: 12468.0/74

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.183 ± 0.920 χ^2/NDF : 941.5/29

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -3.954 ± 0.870 χ^2/NDF : 887.0/32

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

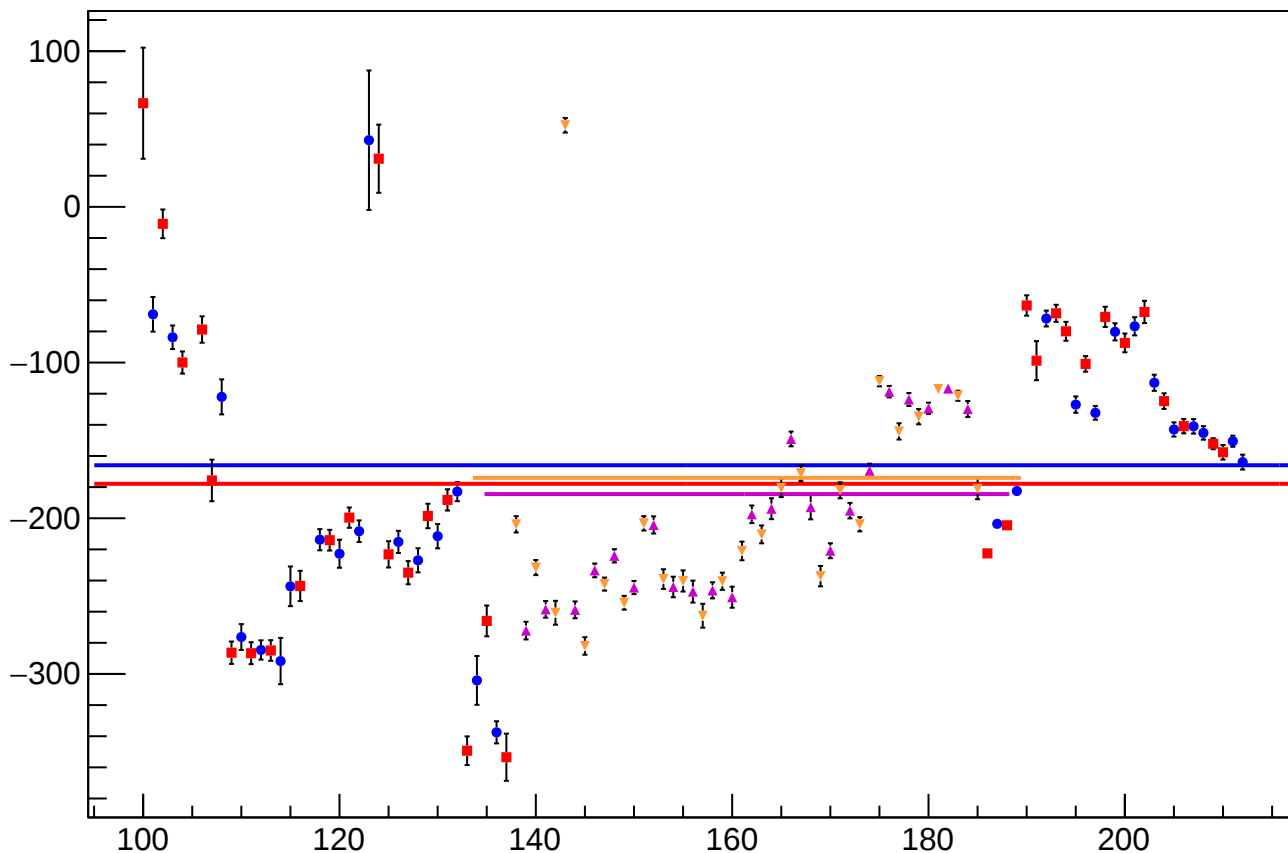
Right: -2.174 ± 0.632 χ^2/NDF : 1837.4/62

In: 3.135 ± 0.595 χ^2/NDF : 1220.2/52

Out: 1.383 ± 0.567 χ^2/NDF : 1297.9/57

All: 2.216 ± 0.411 χ^2/NDF : 2522.7/110

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -165.958 ± 1.025 χ^2/NDF : 3140.2/29

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -177.875 ± 0.894 χ^2/NDF : 4983.4/32

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

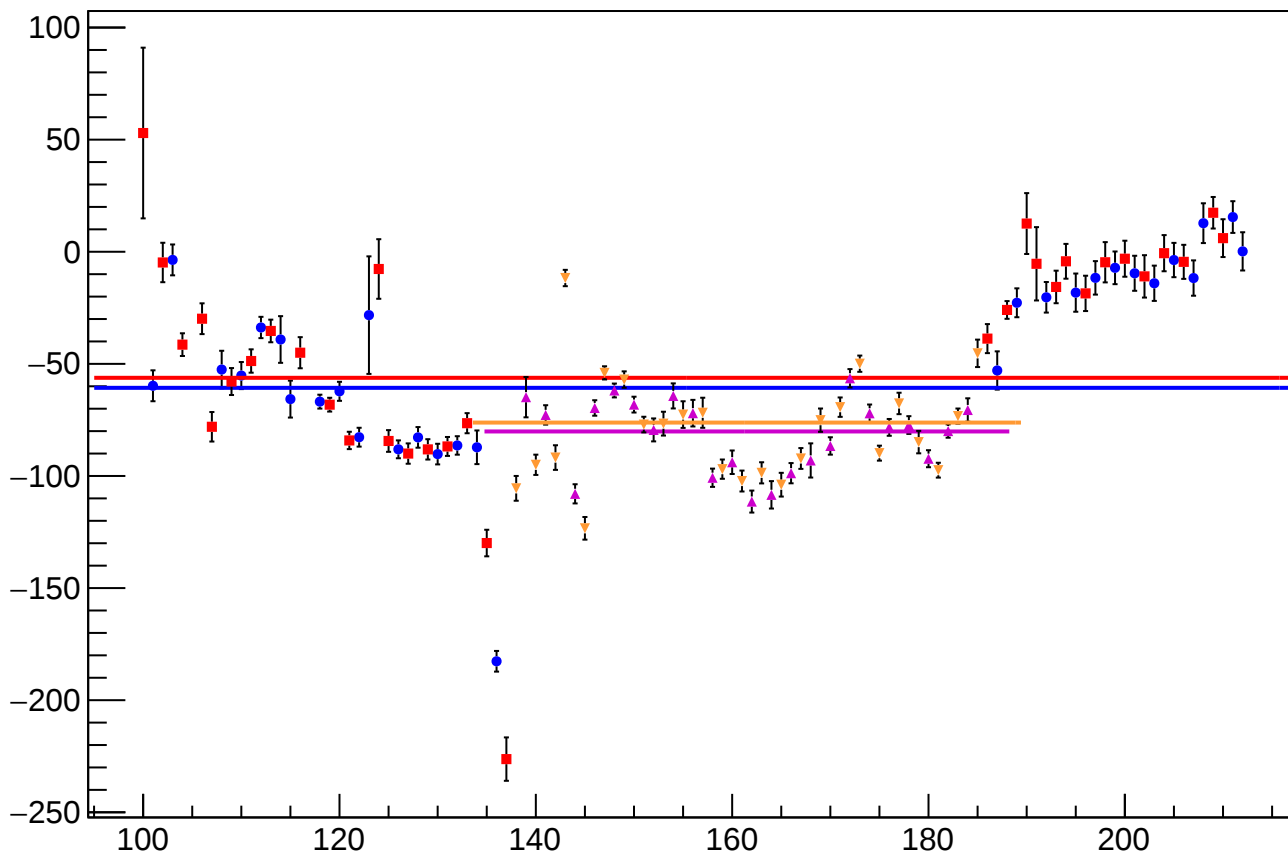
Right: -172.721 ± 0.674 χ^2/NDF : 8200.4/62

In: -175.519 ± 0.712 χ^2/NDF : 6360.3/52

Out: -176.124 ± 0.658 χ^2/NDF : 10435.0/57

All: -175.846 ± 0.483 χ^2/NDF : 16795.7/110

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -60.688 ± 1.070 $\chi^2/\text{NDF}: 1602.4/29$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -56.217 ± 1.032 $\chi^2/\text{NDF}: 1412.1/32$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

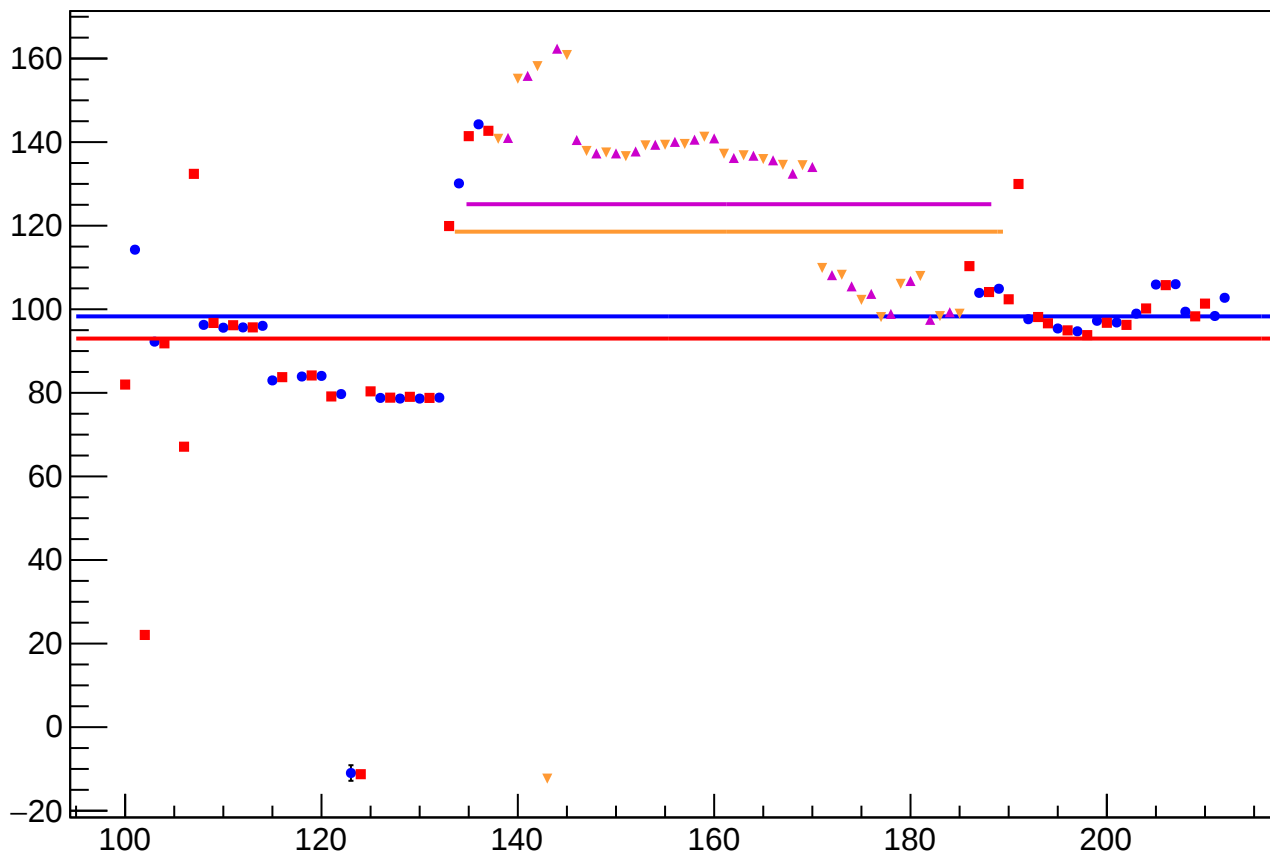
Right: -58.371 ± 0.743 $\chi^2/\text{NDF}: 3023.6/62$

In: -72.202 ± 0.684 $\chi^2/\text{NDF}: 2081.3/52$

Out: -68.028 ± 0.659 $\chi^2/\text{NDF}: 2434.6/57$

All: -70.039 ± 0.475 $\chi^2/\text{NDF}: 4535.3/110$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.297 $\pm$ 0.054 χ^2 /NDF: 96224.4/29

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 92.990 $\pm$ 0.051 χ^2 /NDF: 243930.9/32

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

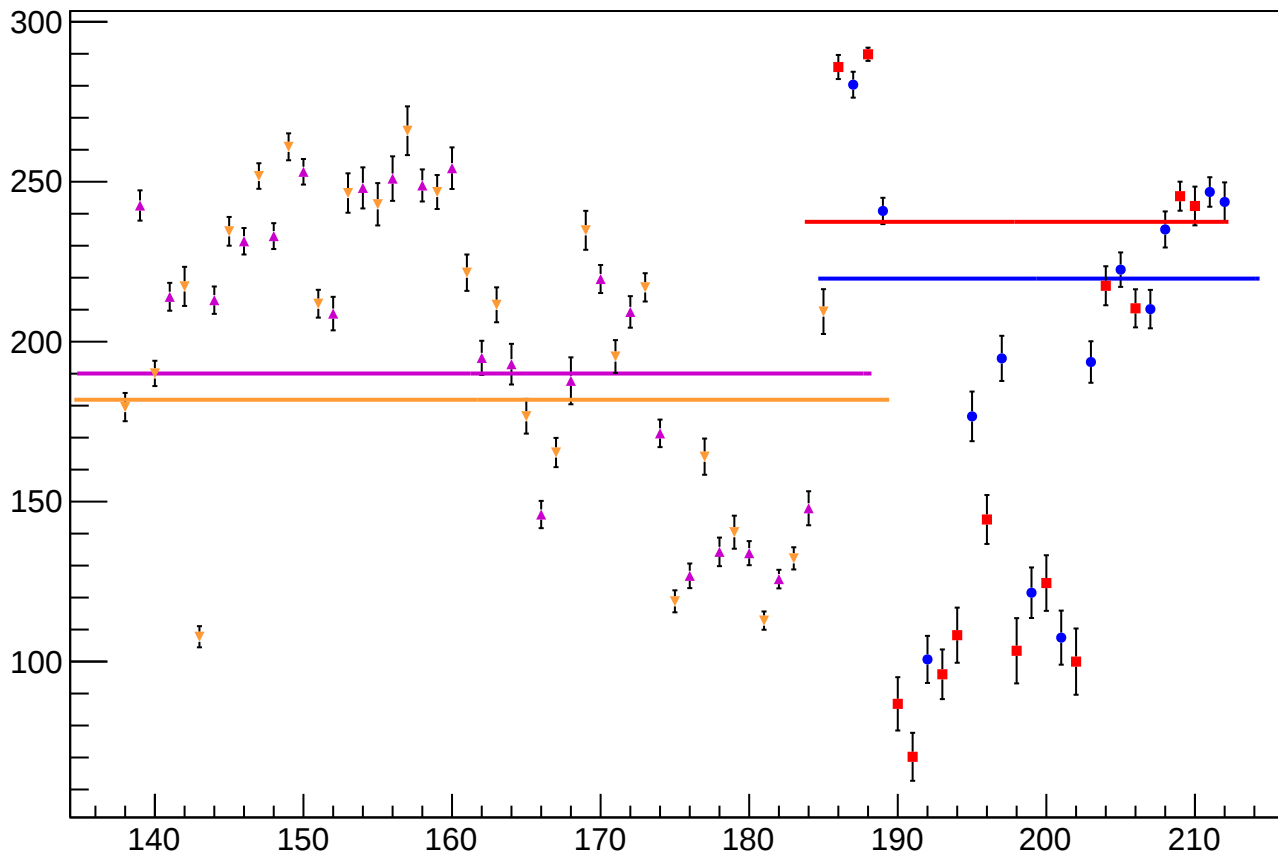
Right: 95.484 $\pm$ 0.037 χ^2 /NDF: 345337.4/62

In: 115.161 $\pm$ 0.033 χ^2 /NDF: 474308.3/52

Out: 108.570 $\pm$ 0.032 χ^2 /NDF: 1128598.5/57

All: 111.751 $\pm$ 0.023 χ^2 /NDF: 1623894.1/110

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 219.719 $\pm$ 1.588 χ^2 /NDF: 962.7/12

Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF: 3303.4/24

Right Out: 237.465 $\pm$ 1.352 χ^2 /NDF: 2888.3/13

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

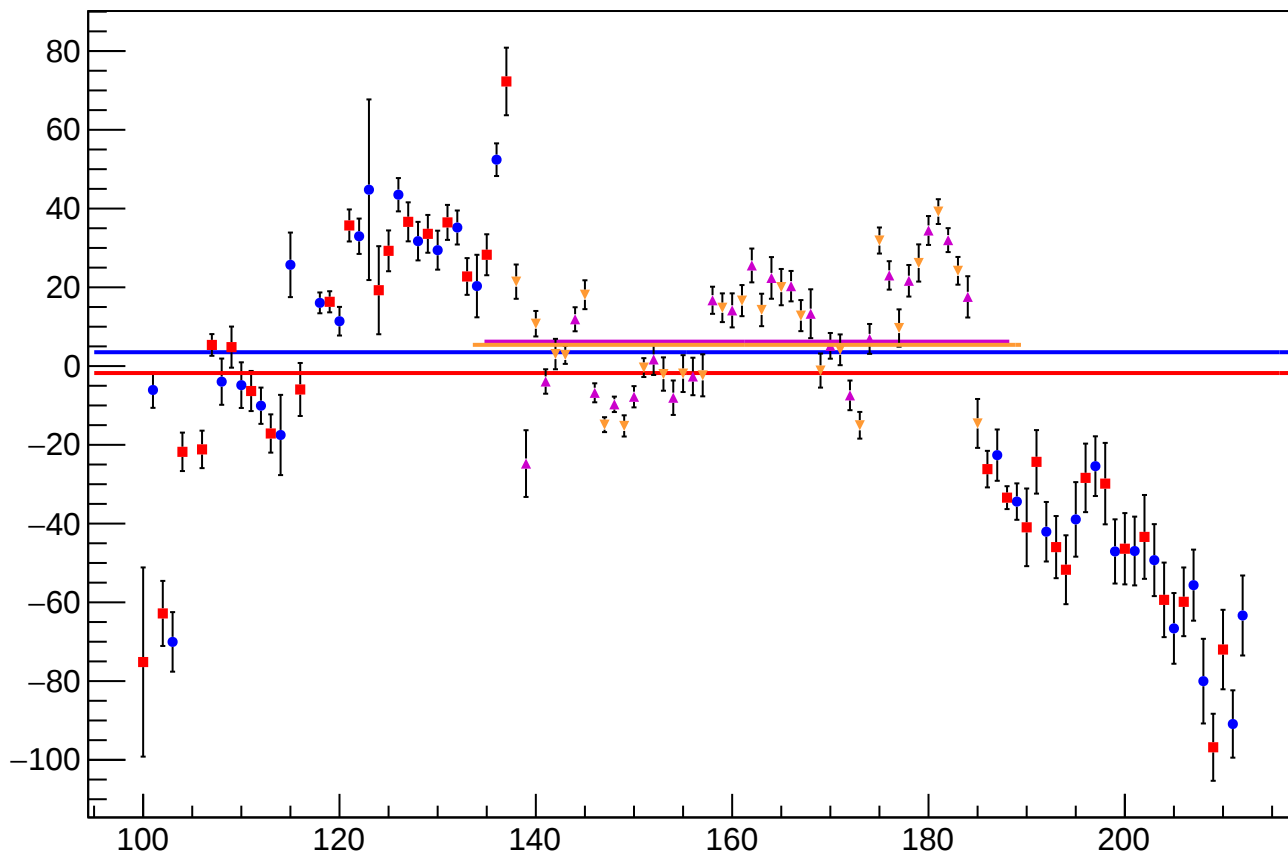
Right: 230.007 $\pm$ 1.030 χ^2 /NDF: 3923.4/26

In: 197.900 $\pm$ 0.817 χ^2 /NDF: 3657.7/35

Out: 199.271 $\pm$ 0.757 χ^2 /NDF: 7353.1/38

All: 198.638 $\pm$ 0.555 χ^2 /NDF: 11012.3/74

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.520 ± 1.028 $\chi^2/\text{NDF}: 1133.2/29$

Left Out: 5.394 ± 0.688 $\chi^2/\text{NDF}: 526.5/24$

Right Out: -1.769 ± 0.928 $\chi^2/\text{NDF}: 1155.2/32$

Left In: 6.206 ± 0.732 $\chi^2/\text{NDF}: 407.5/22$

Left: 5.775 ± 0.501 $\chi^2/\text{NDF}: 934.7/47$

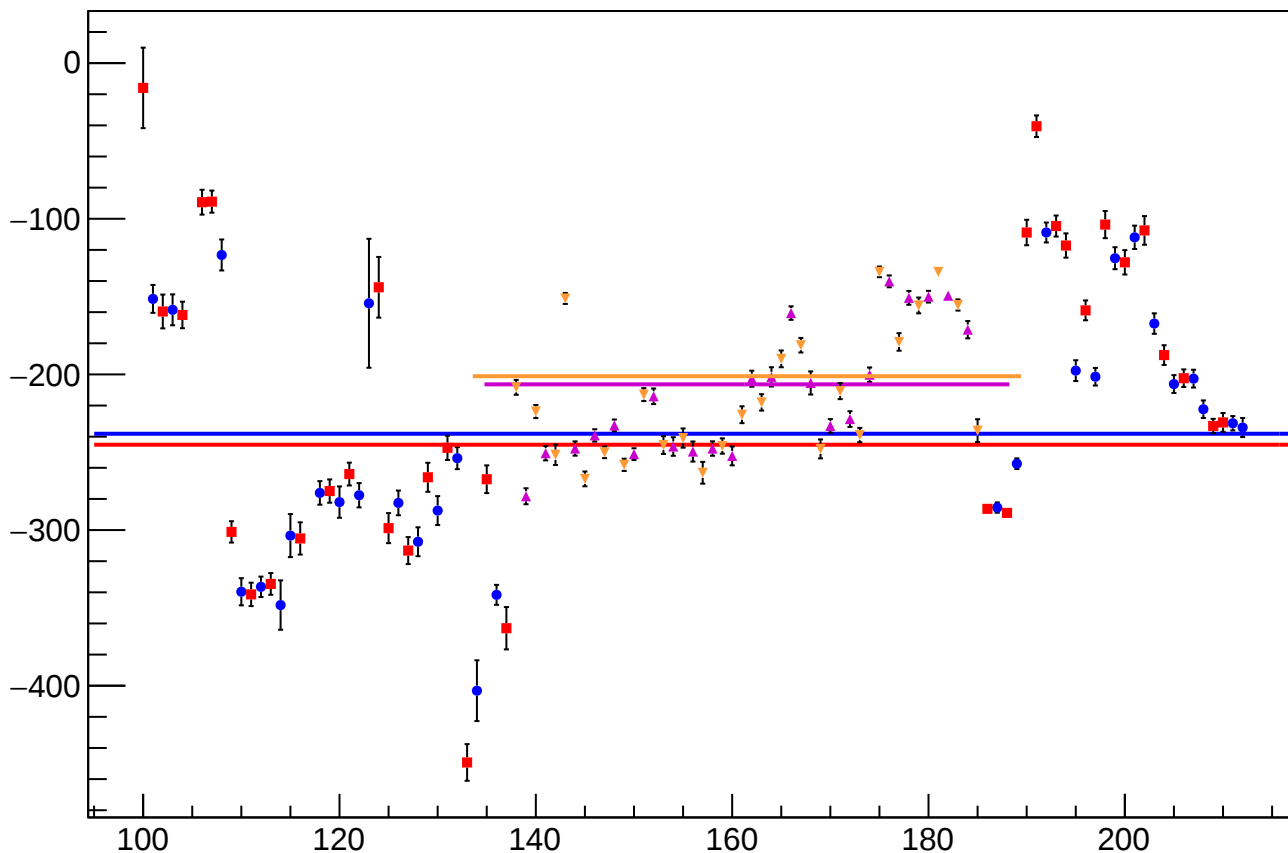
Right: 0.606 ± 0.689 $\chi^2/\text{NDF}: 2303.0/62$

In: 5.303 ± 0.596 $\chi^2/\text{NDF}: 1545.2/52$

Out: 2.853 ± 0.553 $\chi^2/\text{NDF}: 1720.1/57$

All: 3.986 ± 0.405 $\chi^2/\text{NDF}: 3274.5/110$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -238.121+/-1.204 χ^2/NDF : 2703.5/29

Left Out: -201.144+/-0.918 χ^2/NDF : 2488.8/24

Right Out: -245.173+/-1.006 χ^2/NDF : 5835.3/32

Left In: -206.379+/-0.950 χ^2/NDF : 2111.6/22

Left: -203.672+/-0.660 χ^2/NDF : 4616.1/47

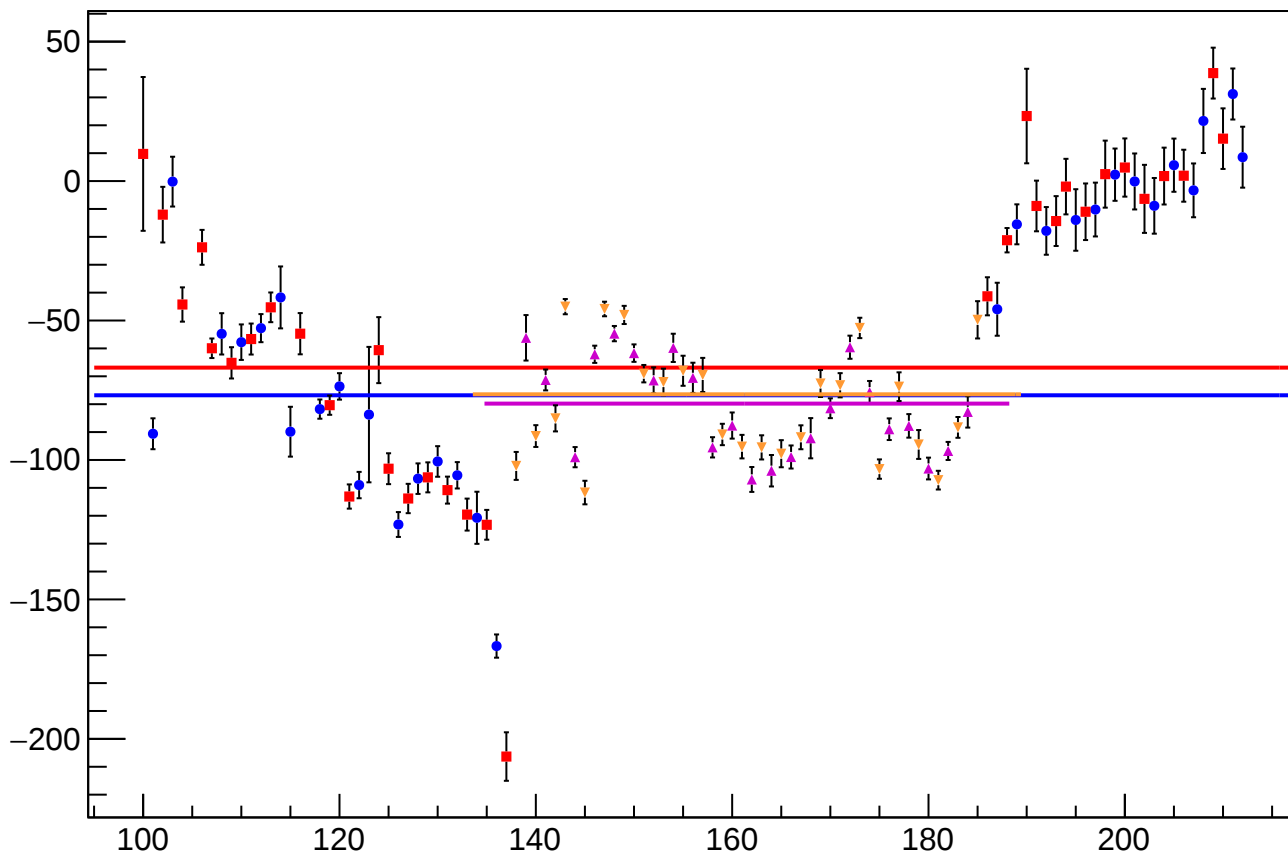
Right: -242.274+/-0.772 χ^2/NDF : 8559.0/62

In: -218.552+/-0.746 χ^2/NDF : 5243.6/52

Out: -221.146+/-0.678 χ^2/NDF : 9369.5/57

All: -219.972+/-0.502 χ^2/NDF : 14619.7/110

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -76.807 ± 1.197 $\chi^2/\text{NDF}: 1656.9/29$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -66.889 ± 1.106 $\chi^2/\text{NDF}: 1661.8/32$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

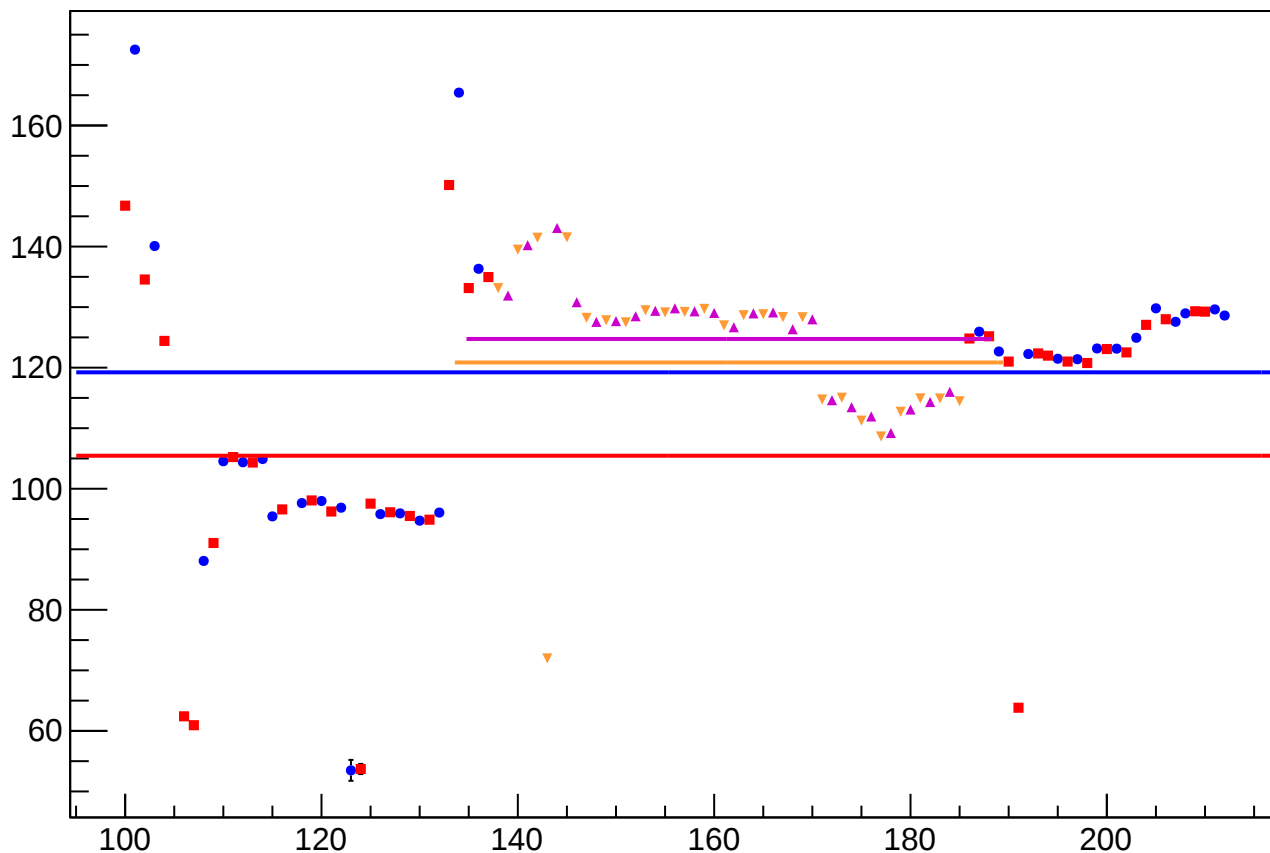
Right: -71.458 ± 0.812 $\chi^2/\text{NDF}: 3355.8/62$

In: -78.807 ± 0.687 $\chi^2/\text{NDF}: 2073.3/52$

Out: -73.191 ± 0.646 $\chi^2/\text{NDF}: 2492.5/57$

All: -75.827 ± 0.471 $\chi^2/\text{NDF}: 4601.2/110$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 119.227 $\pm$ 0.061 χ^2 /NDF: 110902.3/29

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF: 182759.1/24

Right Out: 105.452 $\pm$ 0.054 χ^2 /NDF: 248340.6/32

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

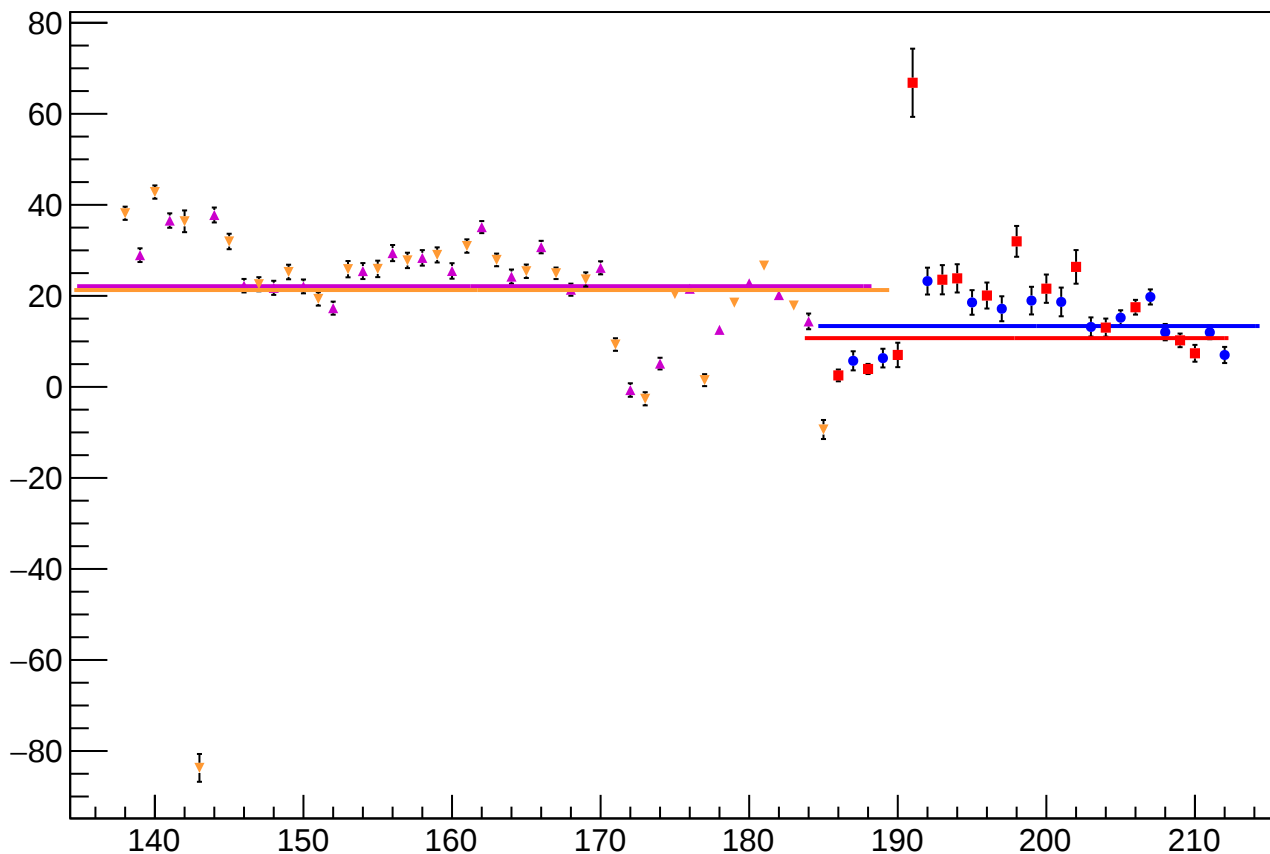
Right: 111.490 $\pm$ 0.041 χ^2 /NDF: 387466.7/62

In: 123.141 $\pm$ 0.033 χ^2 /NDF: 167912.2/52

Out: 115.780 $\pm$ 0.031 χ^2 /NDF: 485079.7/57

All: 119.241 $\pm$ 0.023 χ^2 /NDF: 679231.3/110

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.370 $\pm$ 0.569 χ^2 /NDF: 78.4/12

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 10.716 $\pm$ 0.533 χ^2 /NDF: 271.6/13

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

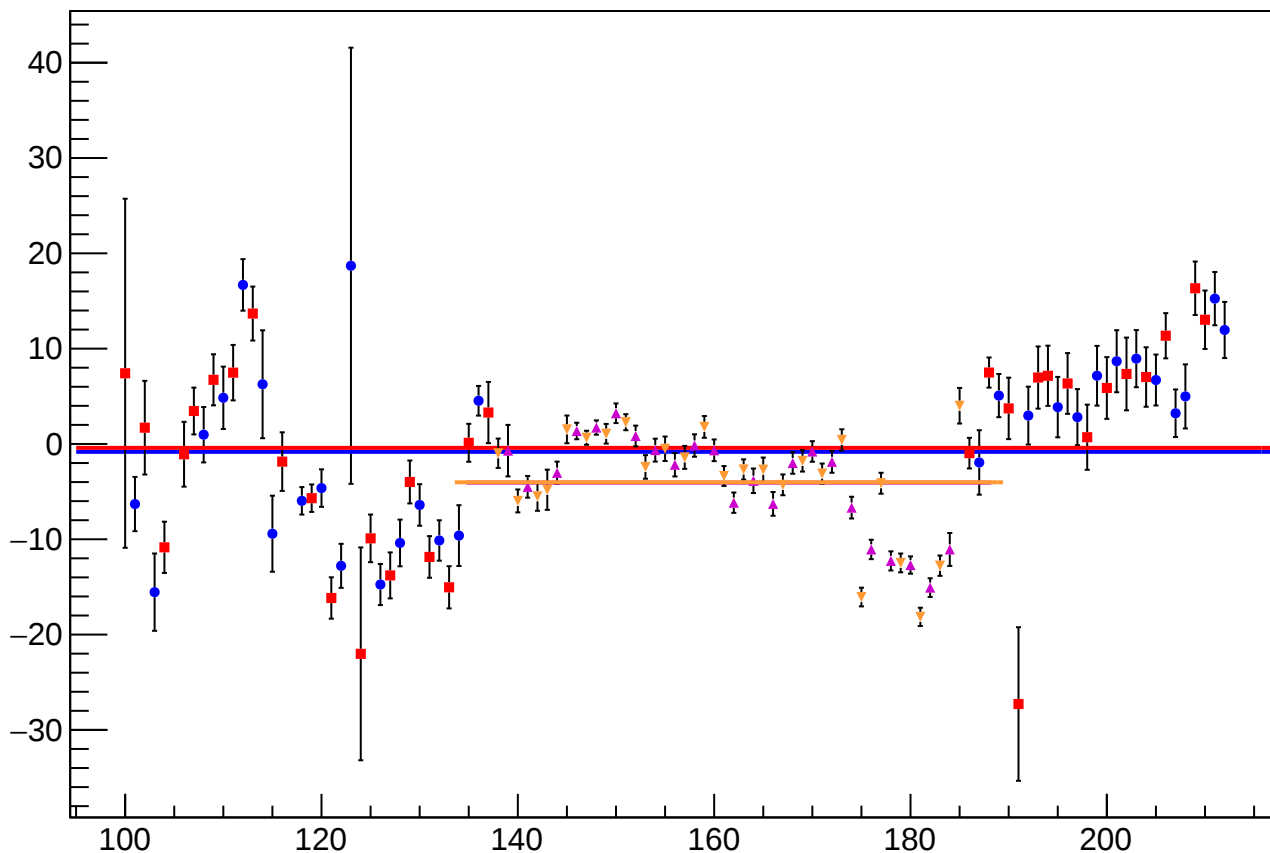
Right: 11.956 $\pm$ 0.389 χ^2 /NDF: 361.5/26

In: 20.365 $\pm$ 0.255 χ^2 /NDF:1167.9/35

Out: 18.964 $\pm$ 0.250 χ^2 /NDF:3179.1/38

All: 19.649 $\pm$ 0.178 χ^2 /NDF: 4362.4/74

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.826 ± 0.475 $\chi^2/\text{NDF}: 317.9/29$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -0.408 ± 0.453 $\chi^2/\text{NDF}: 393.9/32$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

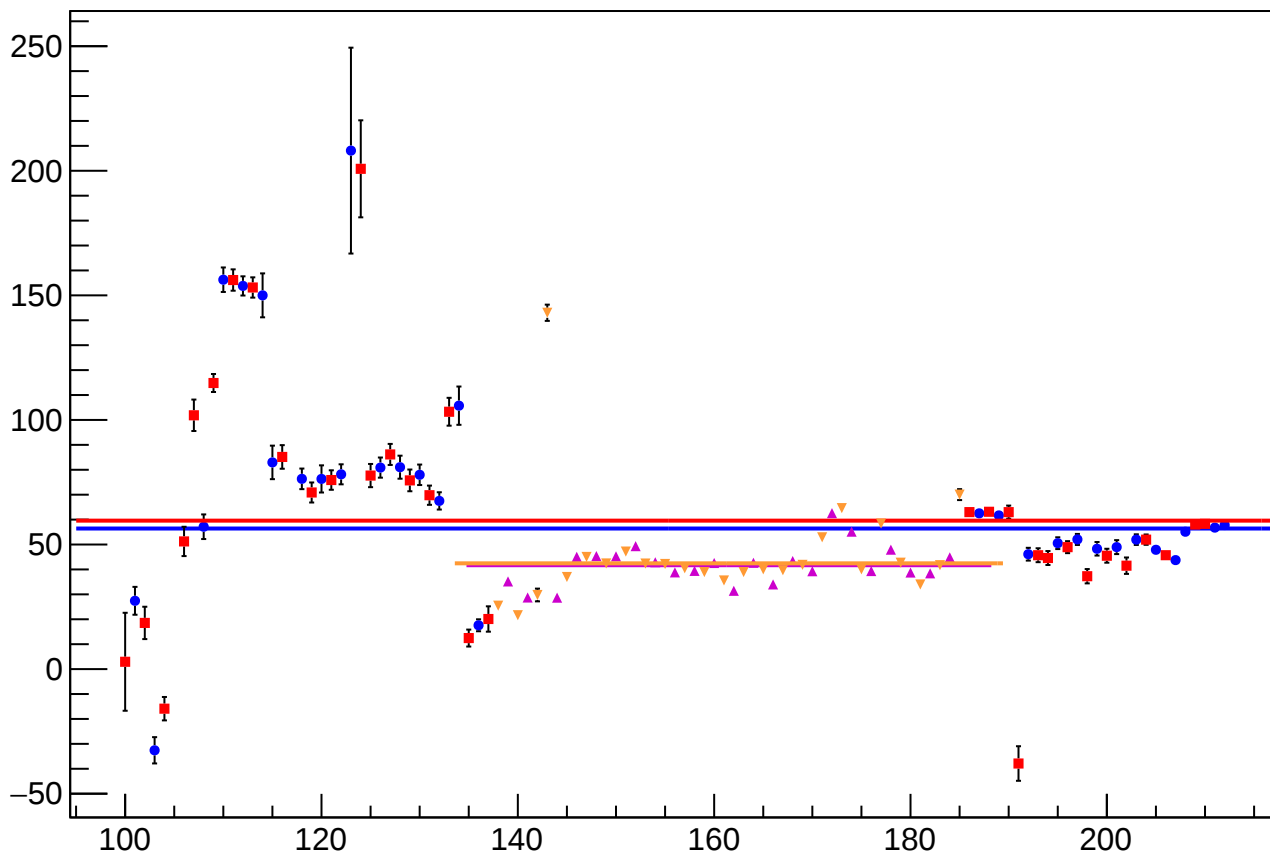
Right: -0.607 ± 0.328 $\chi^2/\text{NDF}: 712.2/62$

In: -3.453 ± 0.206 $\chi^2/\text{NDF}: 932.8/52$

Out: -3.316 ± 0.200 $\chi^2/\text{NDF}: 1179.2/57$

All: -3.383 ± 0.143 $\chi^2/\text{NDF}: 2112.2/110$

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.422 ± 0.480 χ^2/NDF : 2135.1/29

Left Out: 42.452 ± 0.282 χ^2/NDF : 2016.0/24

Right Out: 59.585 ± 0.432 χ^2/NDF : 2629.5/32

Left In: 41.695 ± 0.284 χ^2/NDF : 630.2/22

Left: 42.077 ± 0.200 χ^2/NDF : 2649.8/47

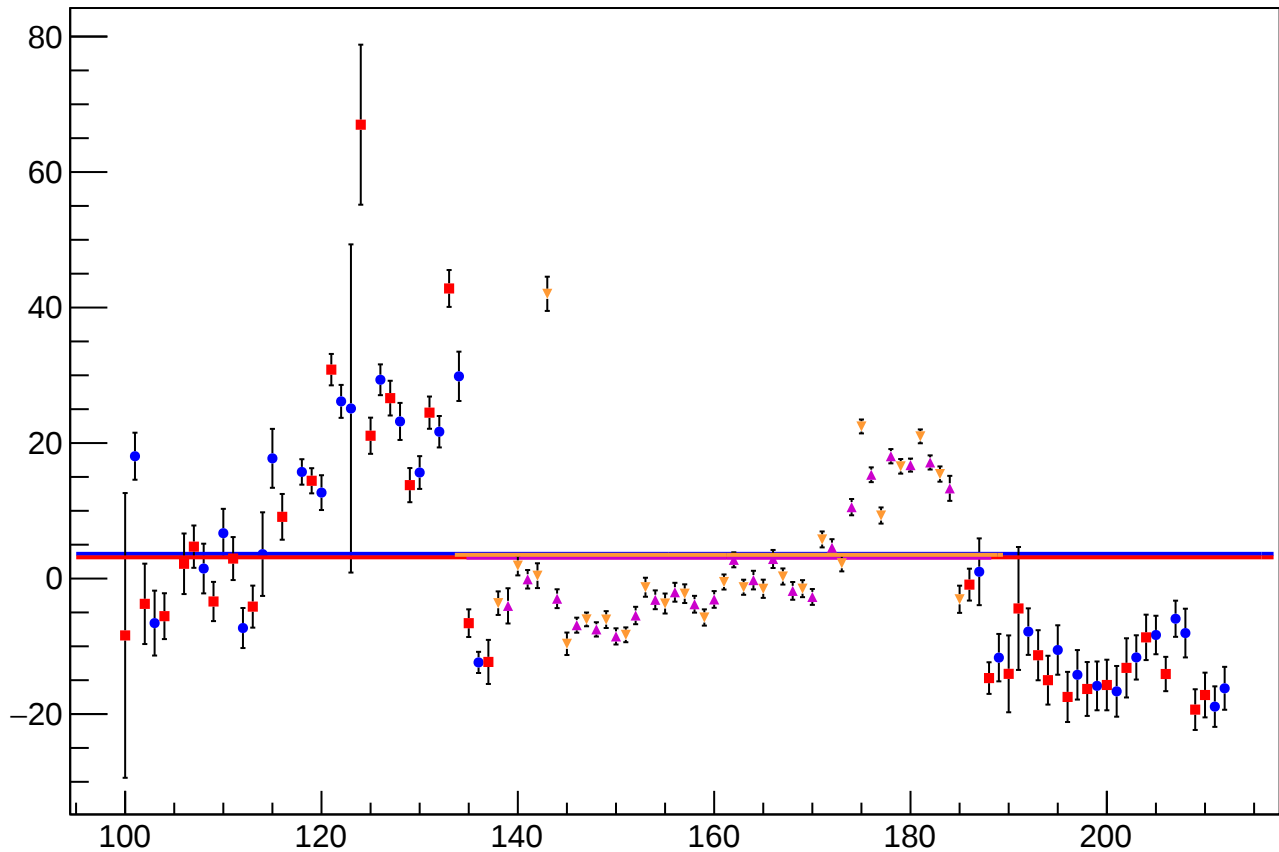
Right: 58.170 ± 0.321 χ^2/NDF : 4788.6/62

In: 45.512 ± 0.245 χ^2/NDF : 3461.6/52

Out: 47.569 ± 0.236 χ^2/NDF : 5748.4/57

All: 46.576 ± 0.170 χ^2/NDF : 9246.6/110

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Left: 3.297 +/- 0.180 χ^2/NDF : 2958.4/47

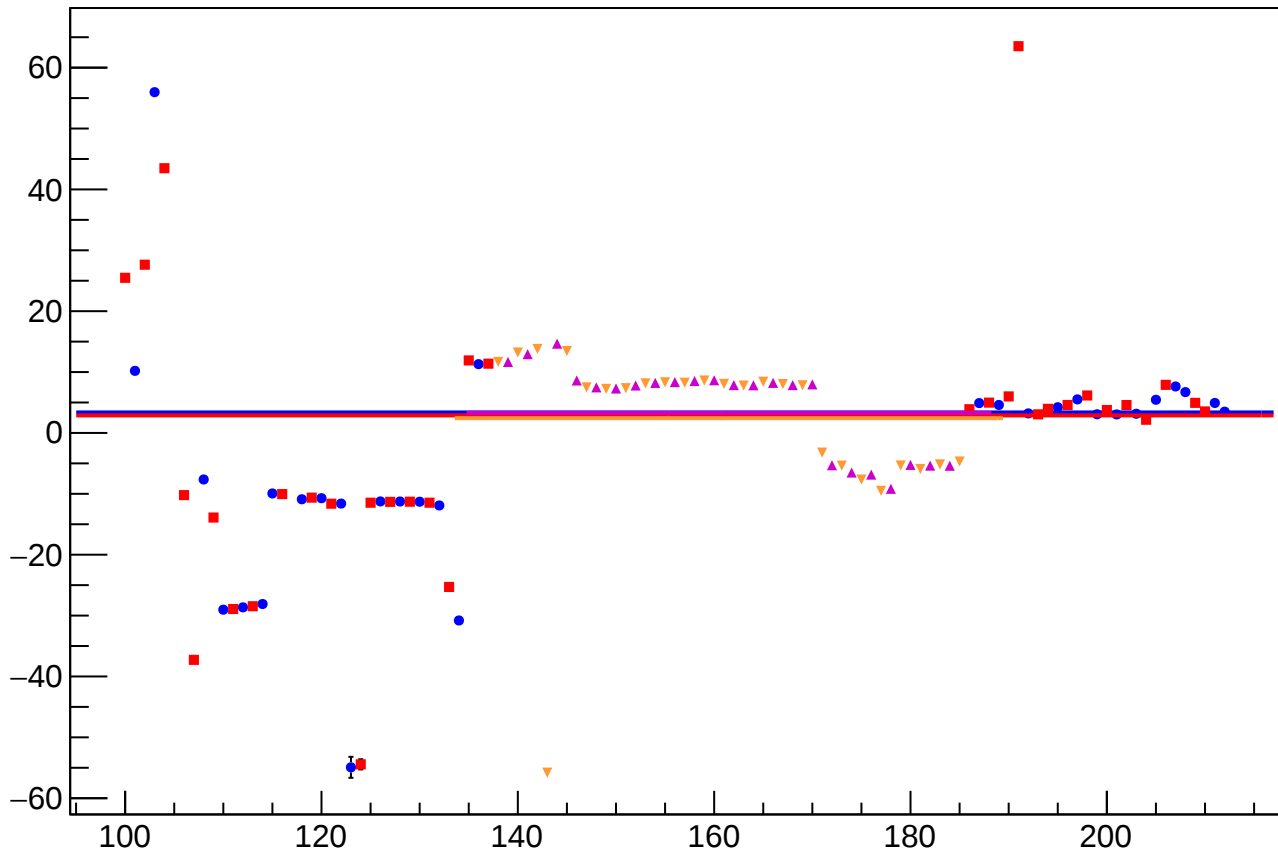
Right: 3.387 +/- 0.380 χ^2/NDF : 1971.7/62

In: 3.186 +/- 0.232 χ^2/NDF : 2162.5/52

Out: 3.437 +/- 0.228 χ^2/NDF : 2767.0/57

All: 3.314 +/- 0.163 χ^2/NDF : 4930.1/110

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.367 $\pm$ 0.025 χ^2 /NDF: 362398.1/29

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.879 $\pm$ 0.025 χ^2 /NDF: 434499.5/32

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

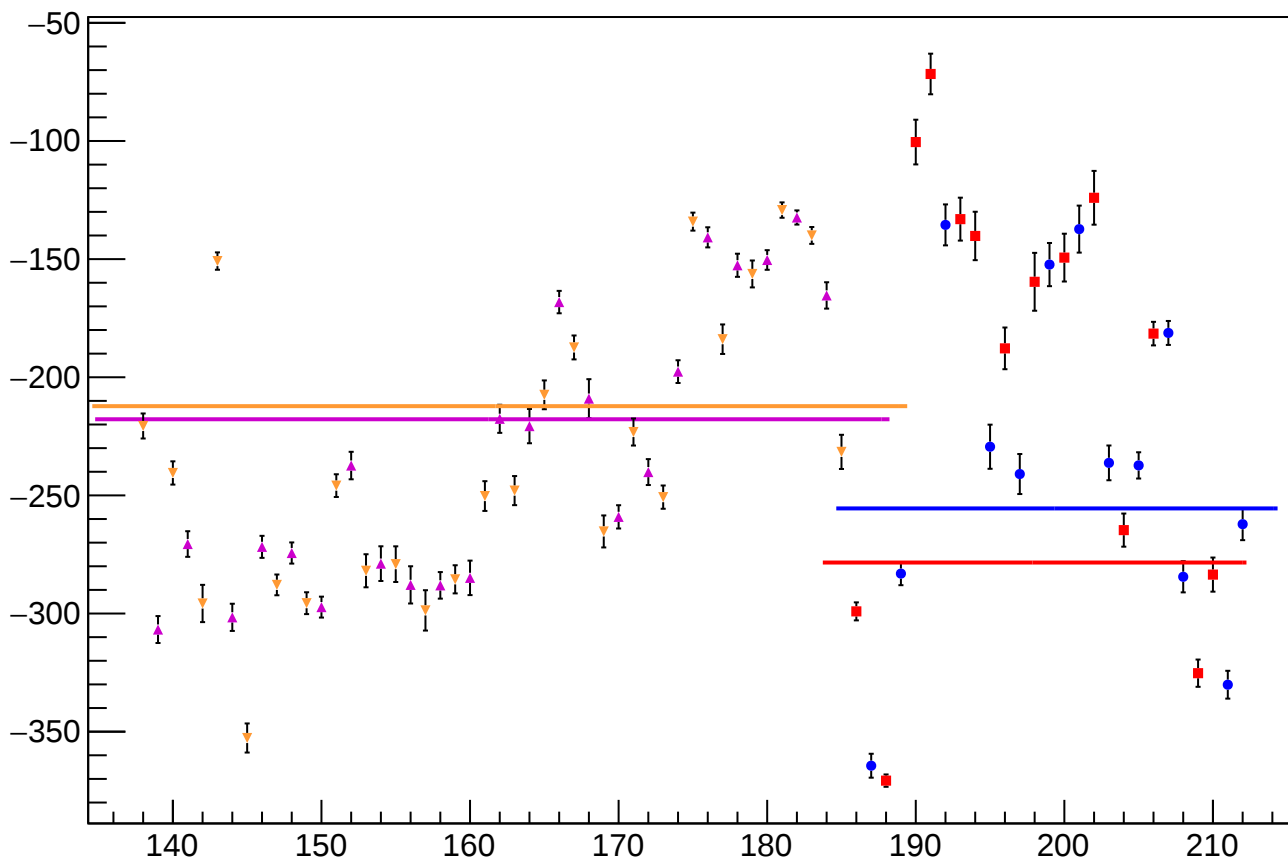
Right: 3.120 $\pm$ 0.018 χ^2 /NDF: 797086.0/62

In: 3.306 $\pm$ 0.011 χ^2 /NDF: 766729.0/52

Out: 2.505 $\pm$ 0.010 χ^2 /NDF: 1051152.8/57

All: 2.902 $\pm$ 0.007 χ^2 /NDF: 1820765.8/110

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -255.516+/-1.811 χ^2 /NDF: 1378.5/12

Left Out: -212.231+/-1.029 χ^2 /NDF:3875.4/24

Right Out: -278.416+/-1.564 χ^2 /NDF: 3643.2/13

Left In: -217.779+/-1.067 χ^2 /NDF:3448.9/22

Left: -214.906+/-0.741 χ^2 /NDF: 7338.3/47

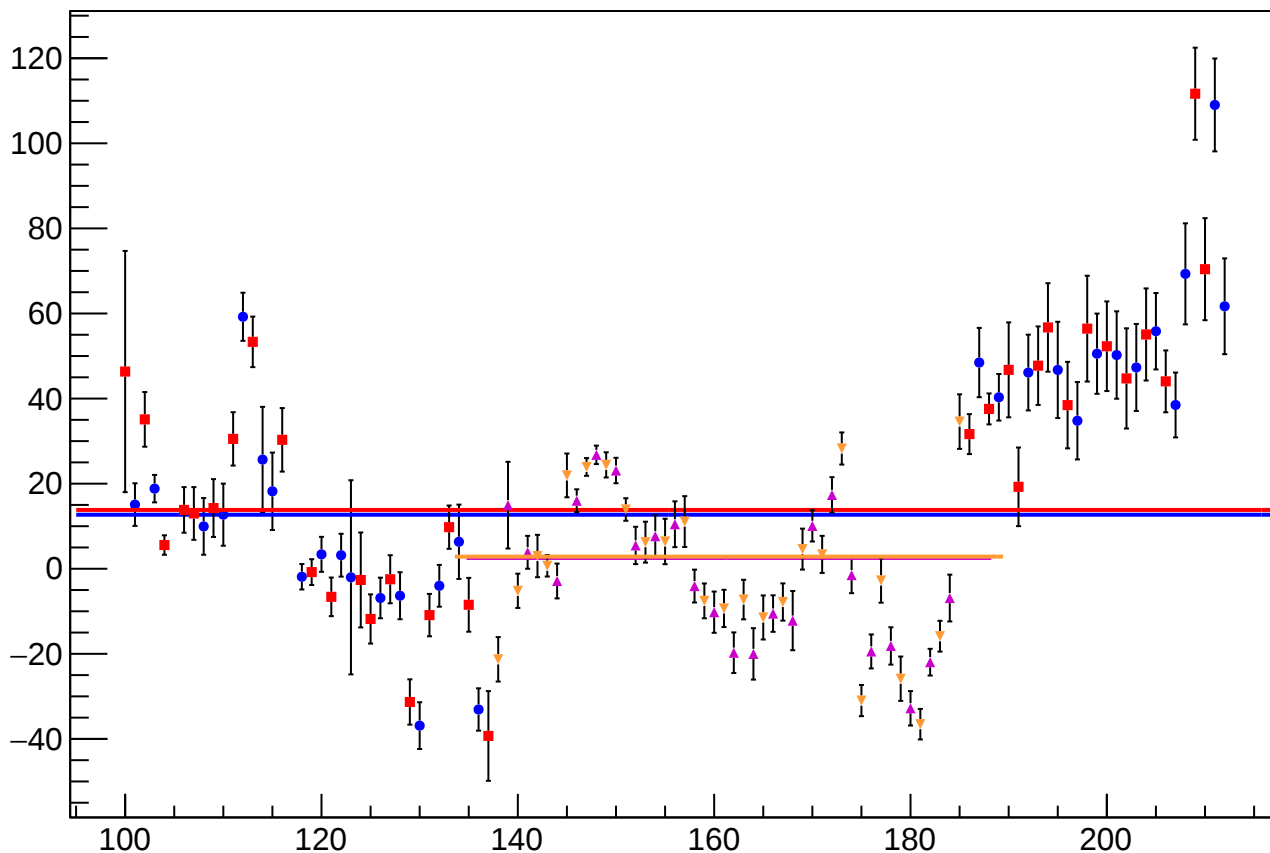
Right: -268.631+/-1.184 χ^2 /NDF: 5113.3/26

In: -227.499+/-0.919 χ^2 /NDF:5149.8/35

Out: -232.230+/-0.860 χ^2 /NDF:8767.7/38

All: -230.022+/-0.628 χ^2 /NDF: 13931.5/74

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.698 $\pm$ 1.112 χ^2 /NDF: 581.6/29

Left Out: 2.848 $\pm$ 0.775 χ^2 /NDF:582.1/24

Right Out: 13.826 $\pm$ 1.009 χ^2 /NDF: 560.3/32

Left In: 2.540 $\pm$ 0.822 χ^2 /NDF:473.6/22

Left: 2.703 $\pm$ 0.564 χ^2 /NDF: 1055.8/47

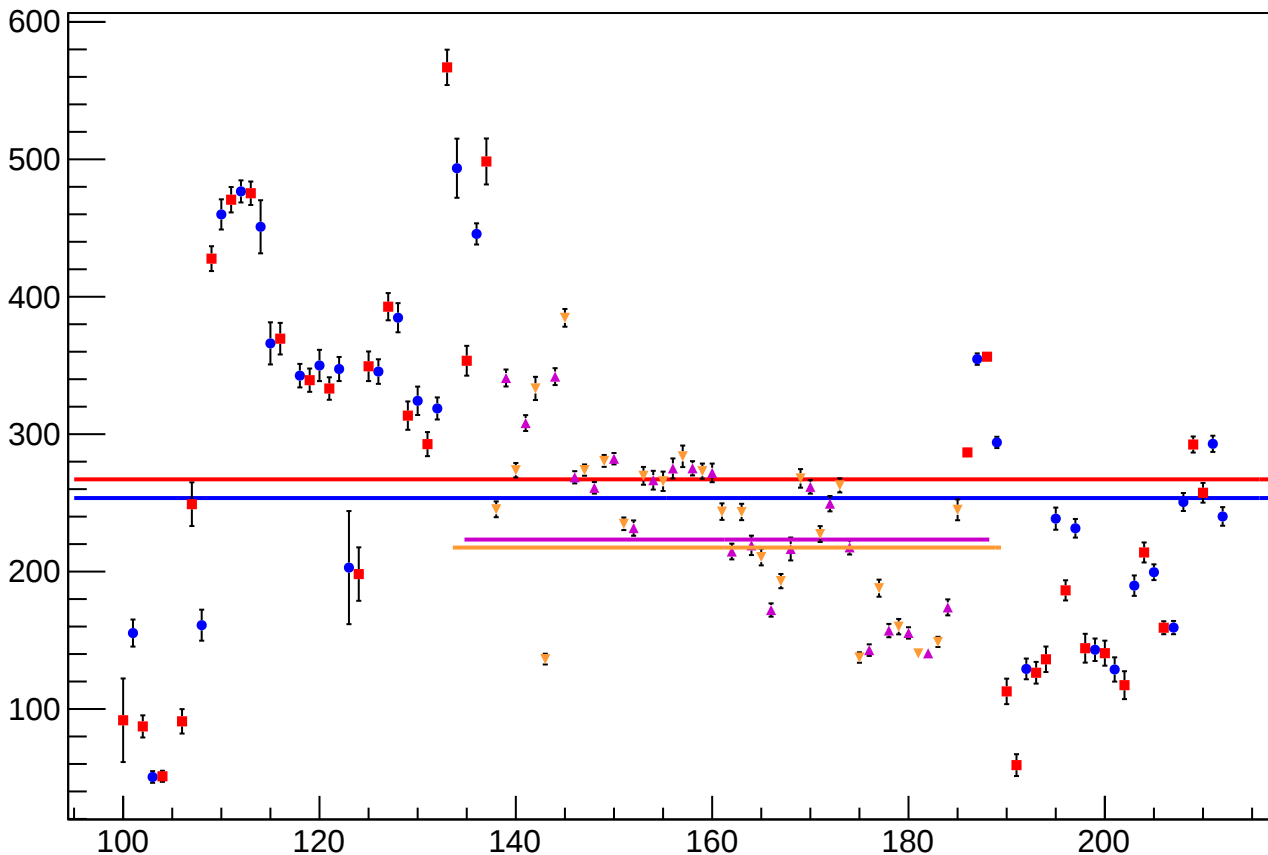
Right: 13.317 $\pm$ 0.747 χ^2 /NDF: 1142.5/62

In: 6.132 $\pm$ 0.661 χ^2 /NDF:1109.2/52

Out: 6.919 $\pm$ 0.614 χ^2 /NDF:1216.9/57

All: 6.554 $\pm$ 0.450 χ^2 /NDF: 2326.8/110

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 253.513 $\pm$ 1.325 χ^2 /NDF: 7117.8/29

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF: 3769.5/24

Right Out: 267.117 $\pm$ 1.131 χ^2 /NDF: 11051.8/32

Left In: 223.309 $\pm$ 1.062 χ^2 /NDF: 3378.0/22

Left: 220.314 $\pm$ 0.740 χ^2 /NDF: 7163.0/47

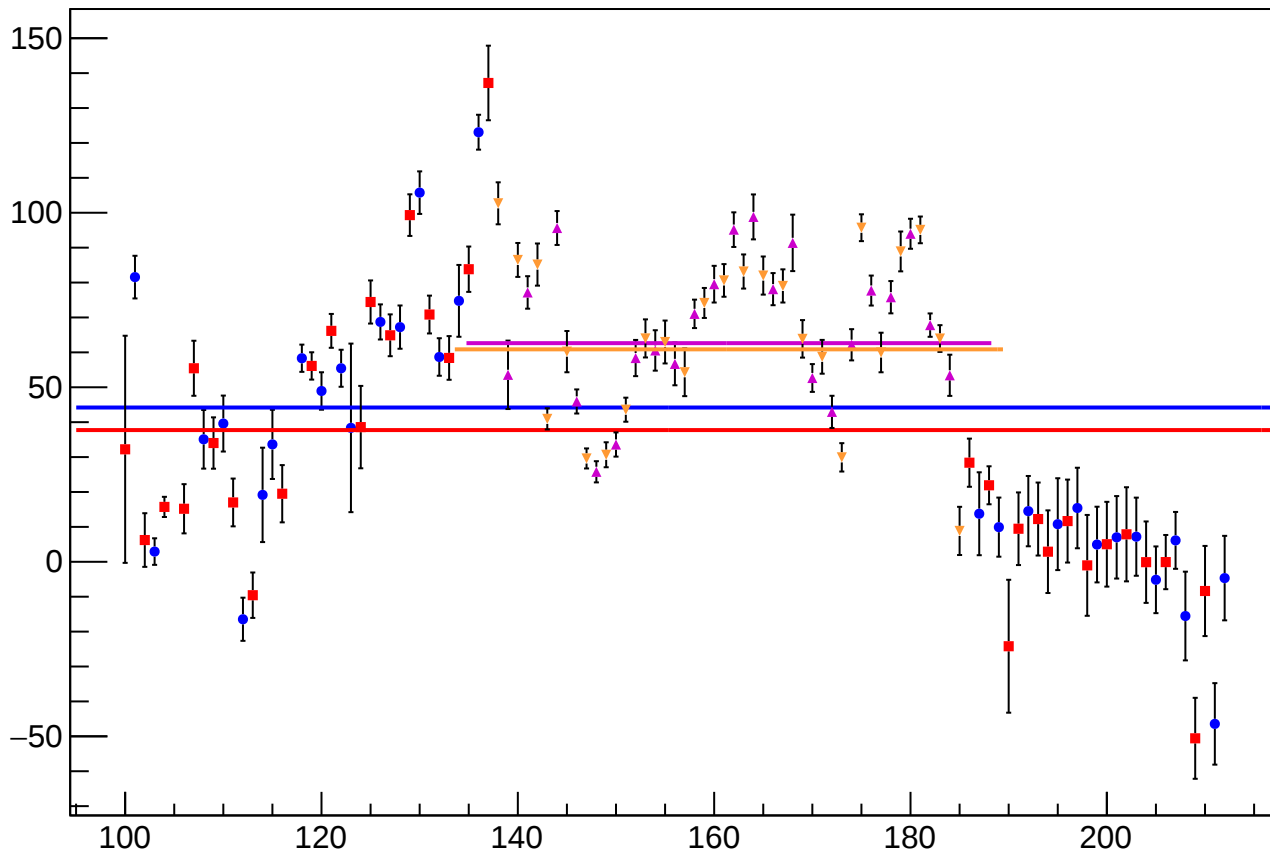
Right: 261.383 $\pm$ 0.860 χ^2 /NDF: 18230.6/62

In: 235.125 $\pm$ 0.829 χ^2 /NDF: 10812.3/52

Out: 240.048 $\pm$ 0.762 χ^2 /NDF: 15872.1/57

All: 237.791 $\pm$ 0.561 χ^2 /NDF: 26703.5/110

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 44.201 $\pm$ 1.295 χ^2 /NDF: 906.0/29

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 37.737 $\pm$ 1.207 χ^2 /NDF: 733.4/32

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

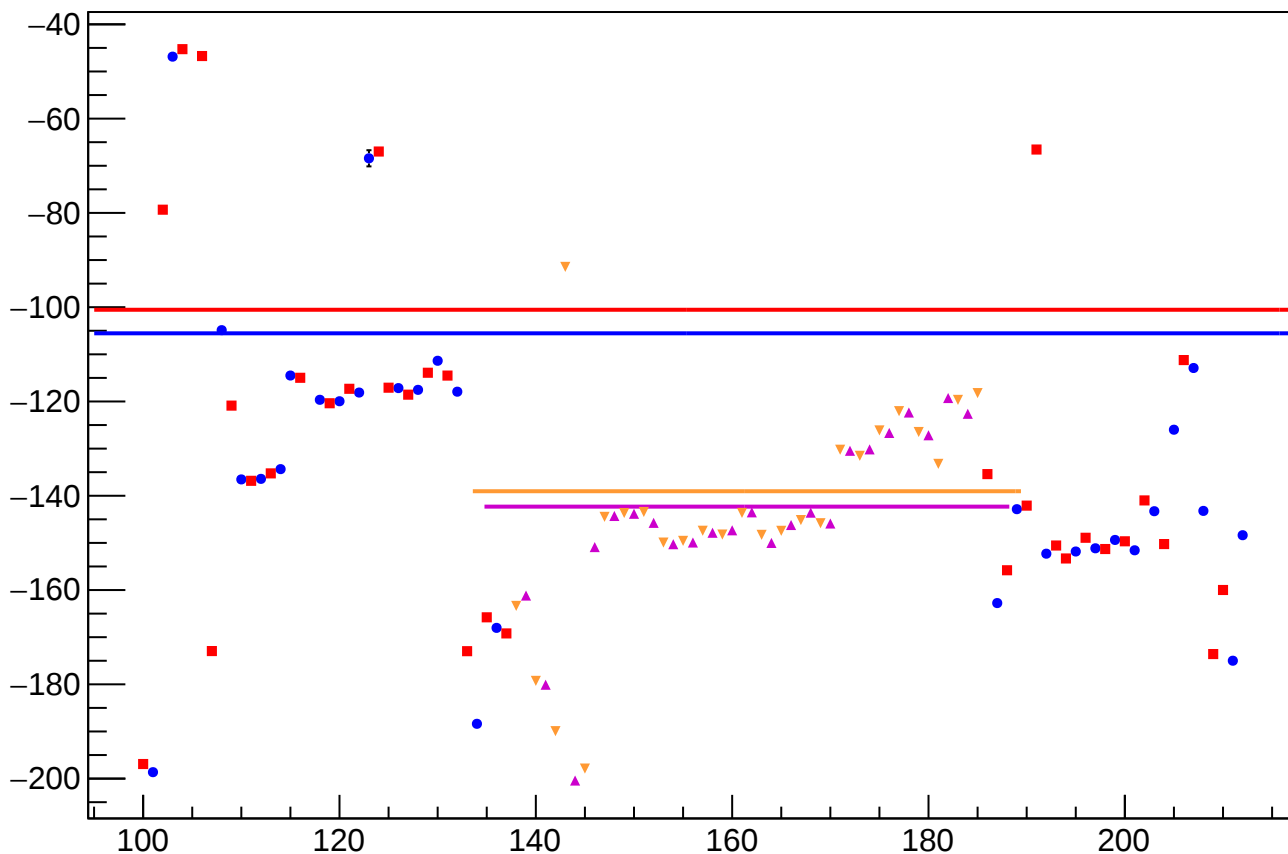
Right: 40.742 $\pm$ 0.883 χ^2 /NDF: 1652.7/62

In: 56.256 $\pm$ 0.762 χ^2 /NDF: 1553.9/52

Out: 52.643 $\pm$ 0.720 χ^2 /NDF: 1701.5/57

All: 54.346 $\pm$ 0.523 χ^2 /NDF: 3267.2/110

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -105.541 ± 0.058 $\chi^2/\text{NDF}: 722128.4/29$

Left Out: -139.040 ± 0.043 $\chi^2/\text{NDF}: 258113.4/24$

Right Out: -100.545 ± 0.055 $\chi^2/\text{NDF}: 757317.0/32$

Left In: -142.305 ± 0.044 $\chi^2/\text{NDF}: 143351.8/22$

Left: -140.627 ± 0.031 $\chi^2/\text{NDF}: 404285.9/47$

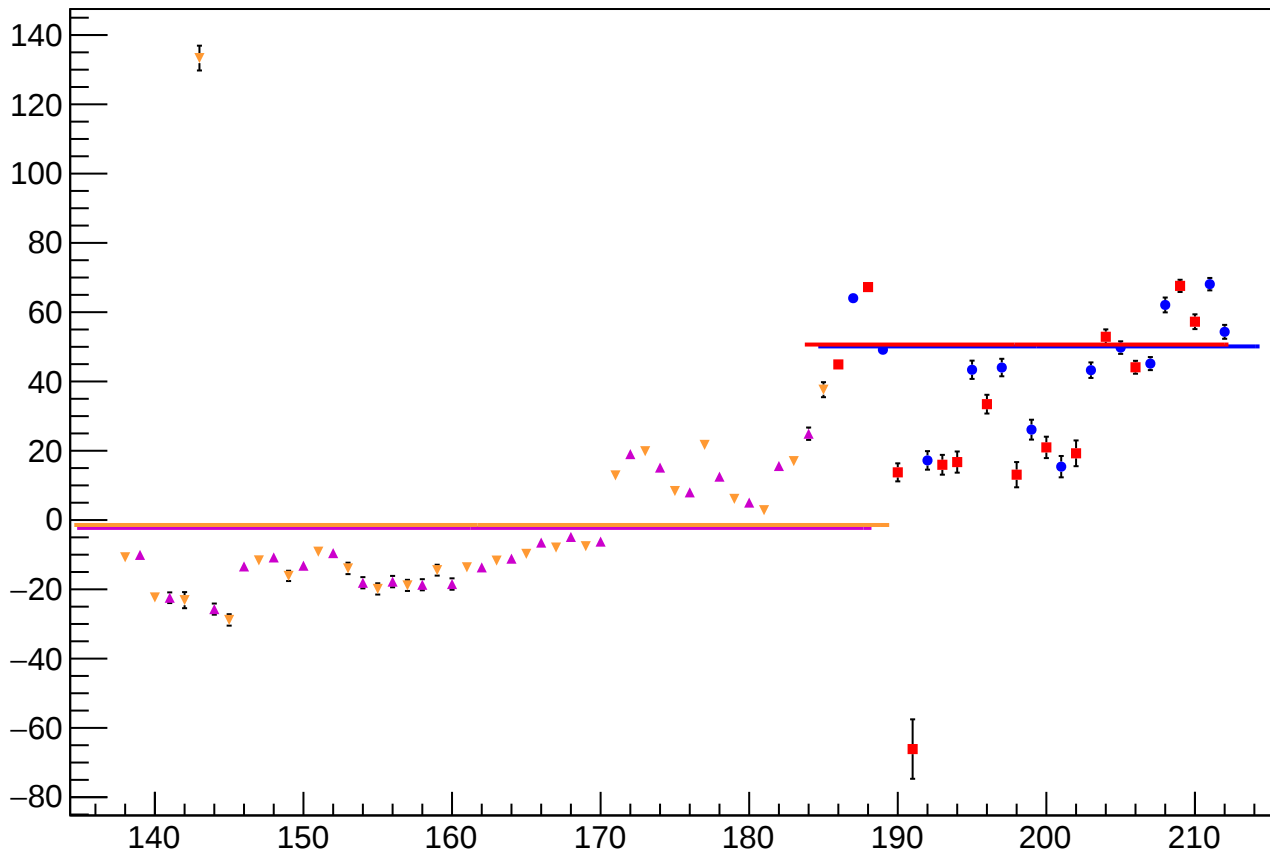
Right: -102.907 ± 0.040 $\chi^2/\text{NDF}: 1483398.4/62$

In: -128.759 ± 0.035 $\chi^2/\text{NDF}: 1121803.0/52$

Out: -124.369 ± 0.034 $\chi^2/\text{NDF}: 1322729.2/57$

All: -126.481 ± 0.024 $\chi^2/\text{NDF}: 2452683.5/111$

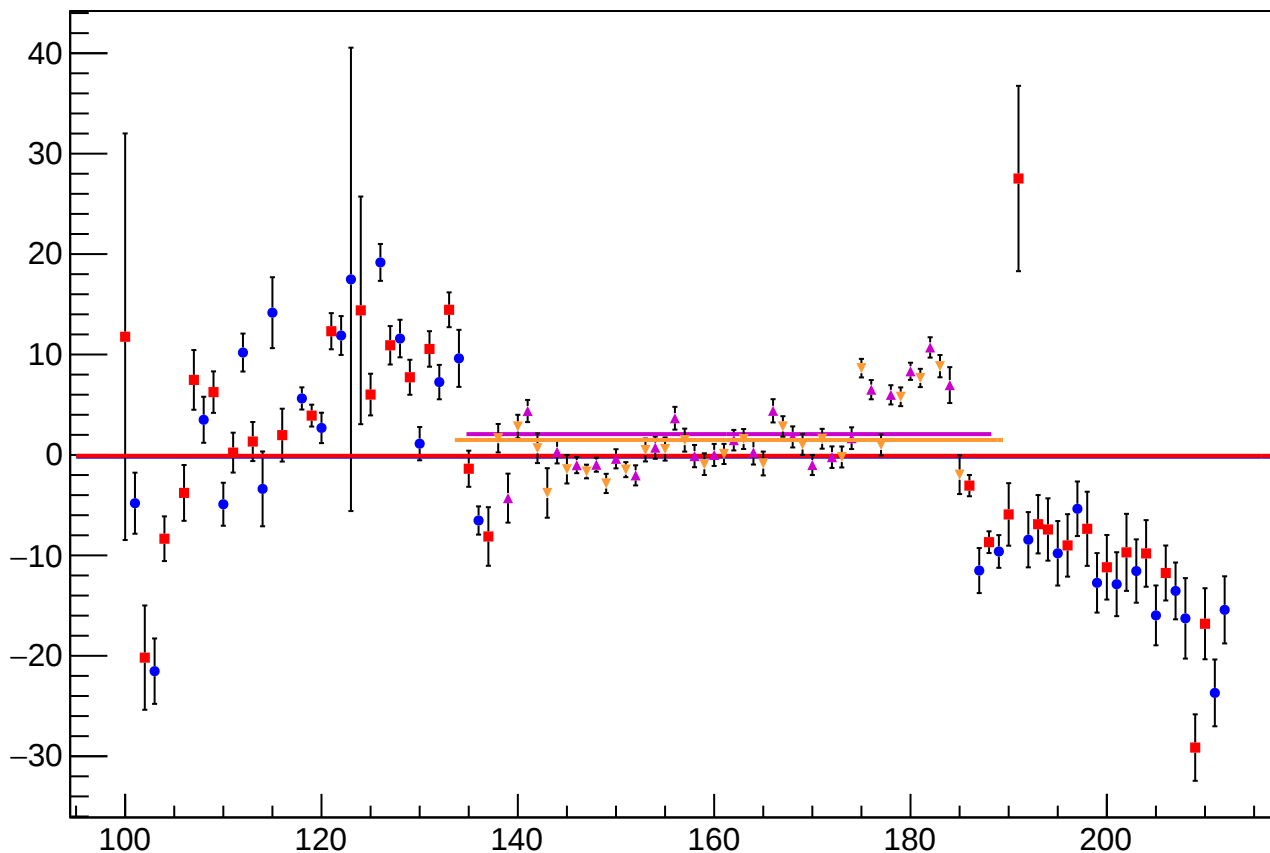
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 50.115 $\pm$ 0.558 χ^2 /NDF: 613.0/12
 Left Out: -1.427 $\pm$ 0.268 χ^2 /NDF:4339.0/24
 Right Out: 50.657 $\pm$ 0.455 χ^2 /NDF: 1585.5/13
 Left In: -2.270 $\pm$ 0.271 χ^2 /NDF:2521.6/22

Left: -1.844 $\pm$ 0.190 χ^2 /NDF: 6865.5/47
 Right: 50.440 $\pm$ 0.352 χ^2 /NDF: 2199.0/26
 In: 7.721 $\pm$ 0.244 χ^2 /NDF:10274.8/35
 Out: 11.967 $\pm$ 0.231 χ^2 /NDF:15664.2/38
 All: 9.959 $\pm$ 0.167 χ^2 /NDF: 26099.2/74

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.172 ± 0.401 χ^2/NDF : 638.1/29

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: -0.084 ± 0.371 χ^2/NDF : 537.9/32

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

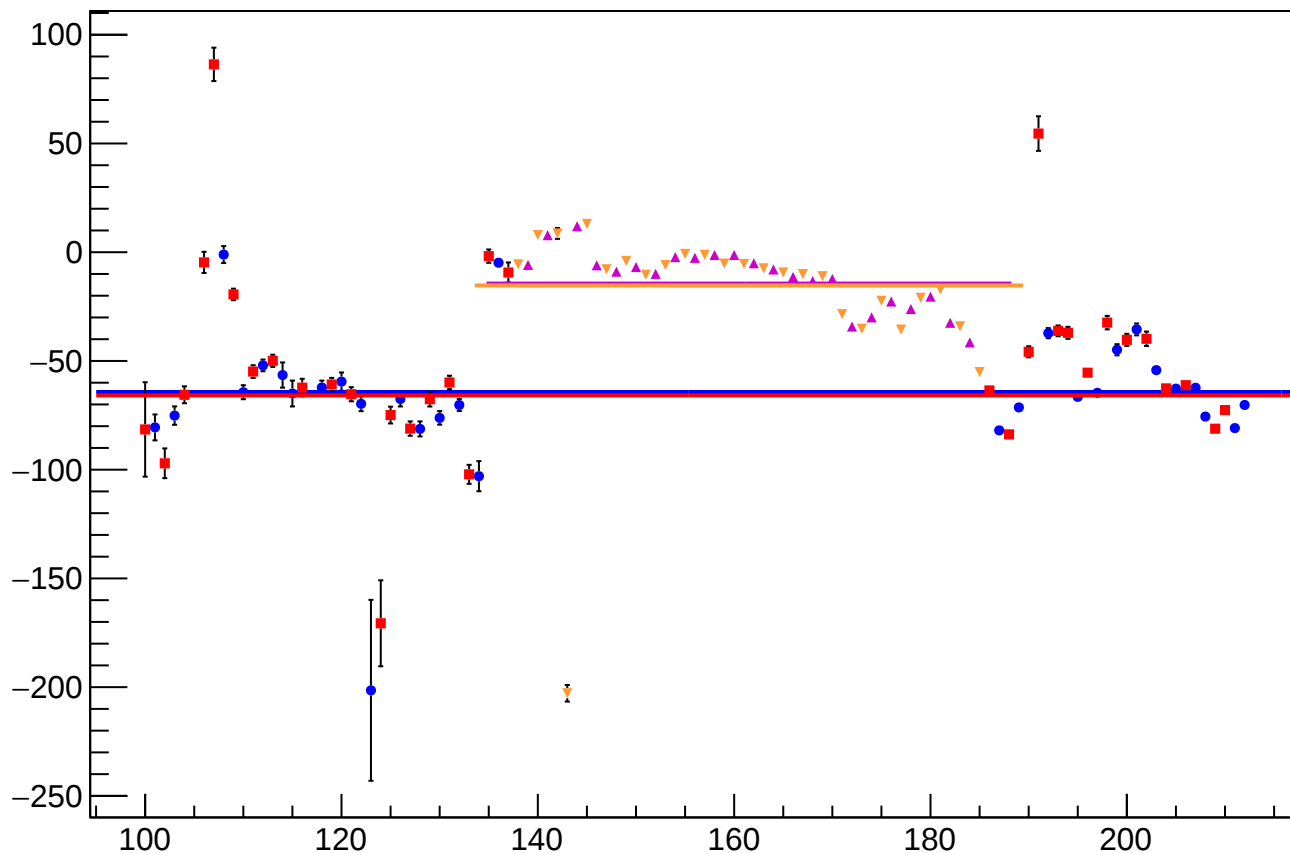
Right: -0.125 ± 0.272 χ^2/NDF : 1176.0/62

In: 1.572 ± 0.190 χ^2/NDF : 937.0/52

Out: 1.108 ± 0.183 χ^2/NDF : 810.7/57

All: 1.331 ± 0.132 χ^2/NDF : 1750.8/110

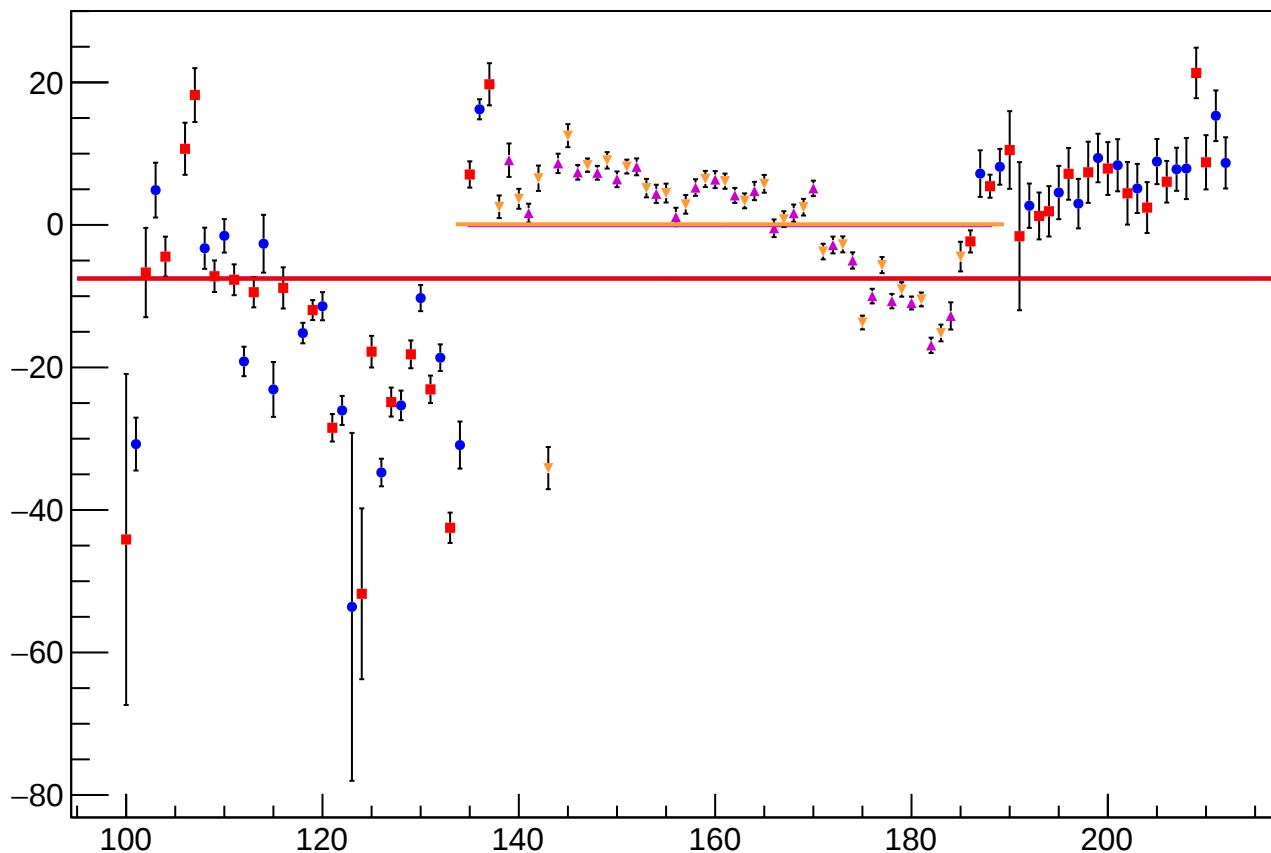
reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.279 ± 0.437 $\chi^2/\text{NDF}: 1863.7/29$
 Left Out: -15.279 ± 0.267 $\chi^2/\text{NDF}: 4820.1/24$
 Right Out: -65.828 ± 0.352 $\chi^2/\text{NDF}: 3396.5/32$
 Left In: -14.406 ± 0.269 $\chi^2/\text{NDF}: 2032.4/22$

Left: -14.846 ± 0.189 $\chi^2/\text{NDF}: 6857.8/47$
 Right: -65.219 ± 0.274 $\chi^2/\text{NDF}: 5267.8/62$
 In: -28.102 ± 0.229 $\chi^2/\text{NDF}: 13328.3/52$
 Out: -33.712 ± 0.213 $\chi^2/\text{NDF}: 21307.4/57$
 All: -31.117 ± 0.156 $\chi^2/\text{NDF}: 34957.6/110$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -7.515 ± 0.465 $\chi^2/\text{NDF}: 1142.4/29$

Left Out: 0.087 ± 0.238 $\chi^2/\text{NDF}: 1172.3/24$

Right Out: -7.531 ± 0.445 $\chi^2/\text{NDF}: 1092.4/32$

Left In: -0.044 ± 0.243 $\chi^2/\text{NDF}: 1028.2/22$

Left: 0.023 ± 0.170 $\chi^2/\text{NDF}: 2200.6/47$

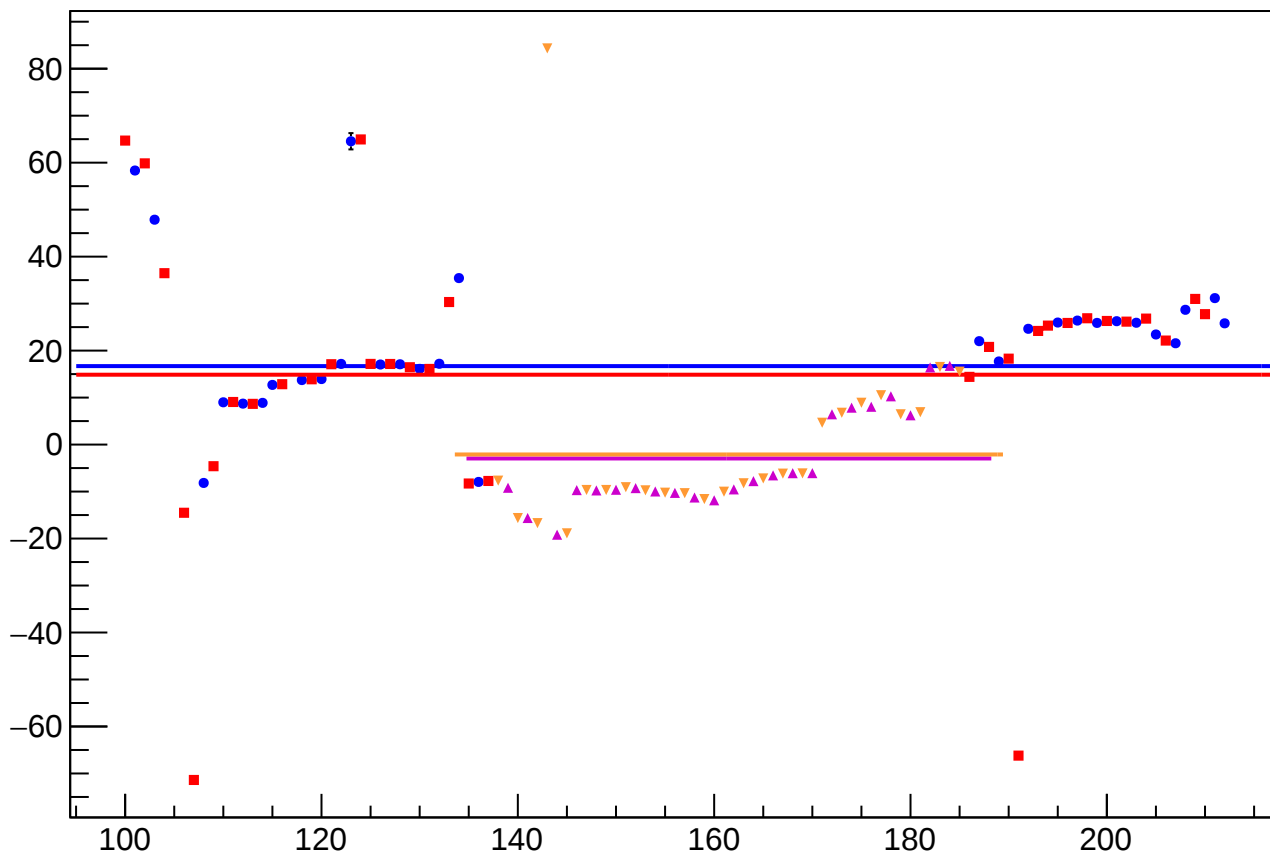
Right: -7.523 ± 0.321 $\chi^2/\text{NDF}: 2234.8/62$

In: -1.650 ± 0.215 $\chi^2/\text{NDF}: 2373.6/52$

Out: -1.612 ± 0.210 $\chi^2/\text{NDF}: 2492.7/57$

All: -1.630 ± 0.150 $\chi^2/\text{NDF}: 4866.4/110$

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 16.701+/-0.023 χ^2/NDF : 486136.0/29

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 14.870+/-0.023 χ^2/NDF : 763434.0/32

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

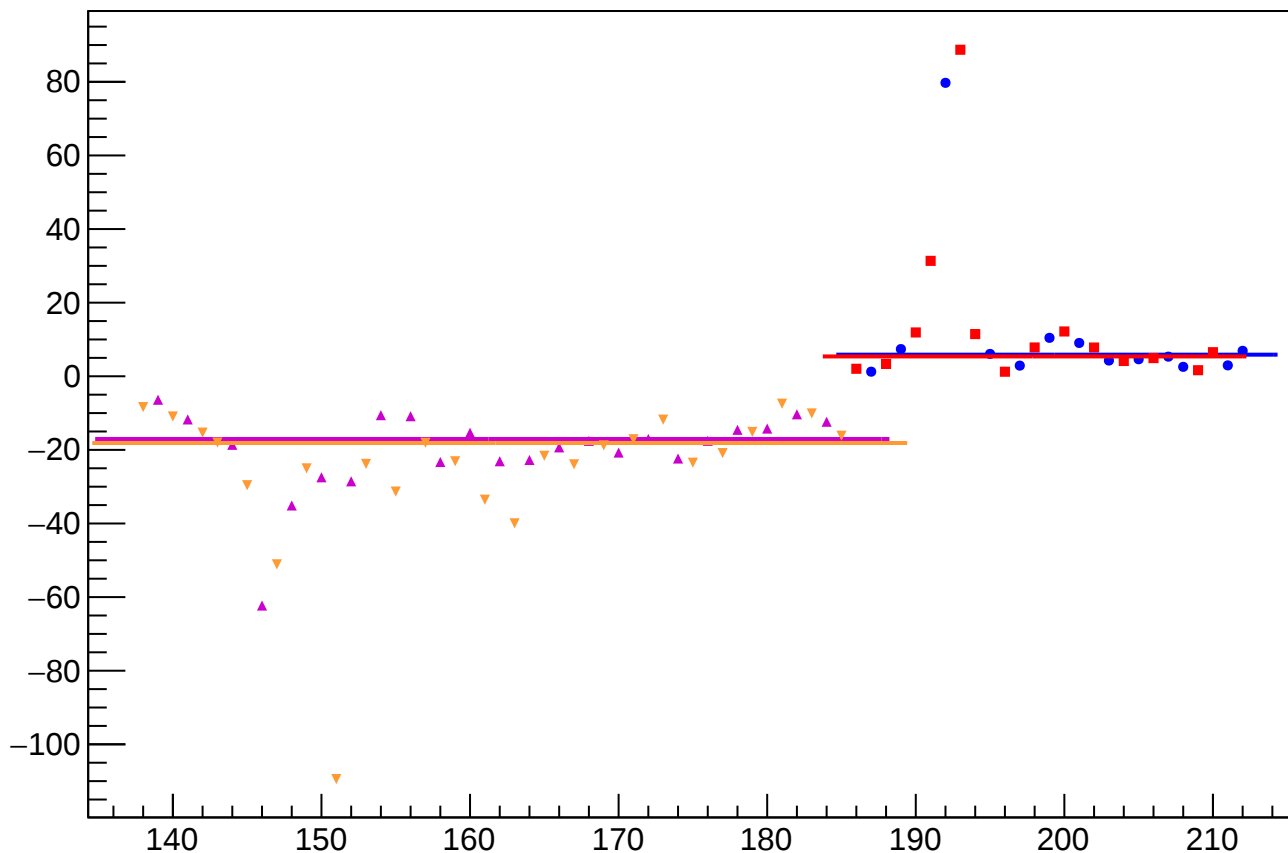
Right: 15.770+/-0.016 χ^2/NDF : 1252801.4/62

In: 0.707+/-0.010 χ^2/NDF : 1844728.9/52

Out: 1.112+/-0.010 χ^2/NDF : 2314388.6/57

All: 0.912+/-0.007 χ^2/NDF : 4159957.4/110

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.871 ± 0.053 $\chi^2/\text{NDF}: 26285.3/12$

Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$

Right Out: 5.388 ± 0.052 $\chi^2/\text{NDF}: 26820.0/13$

Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$

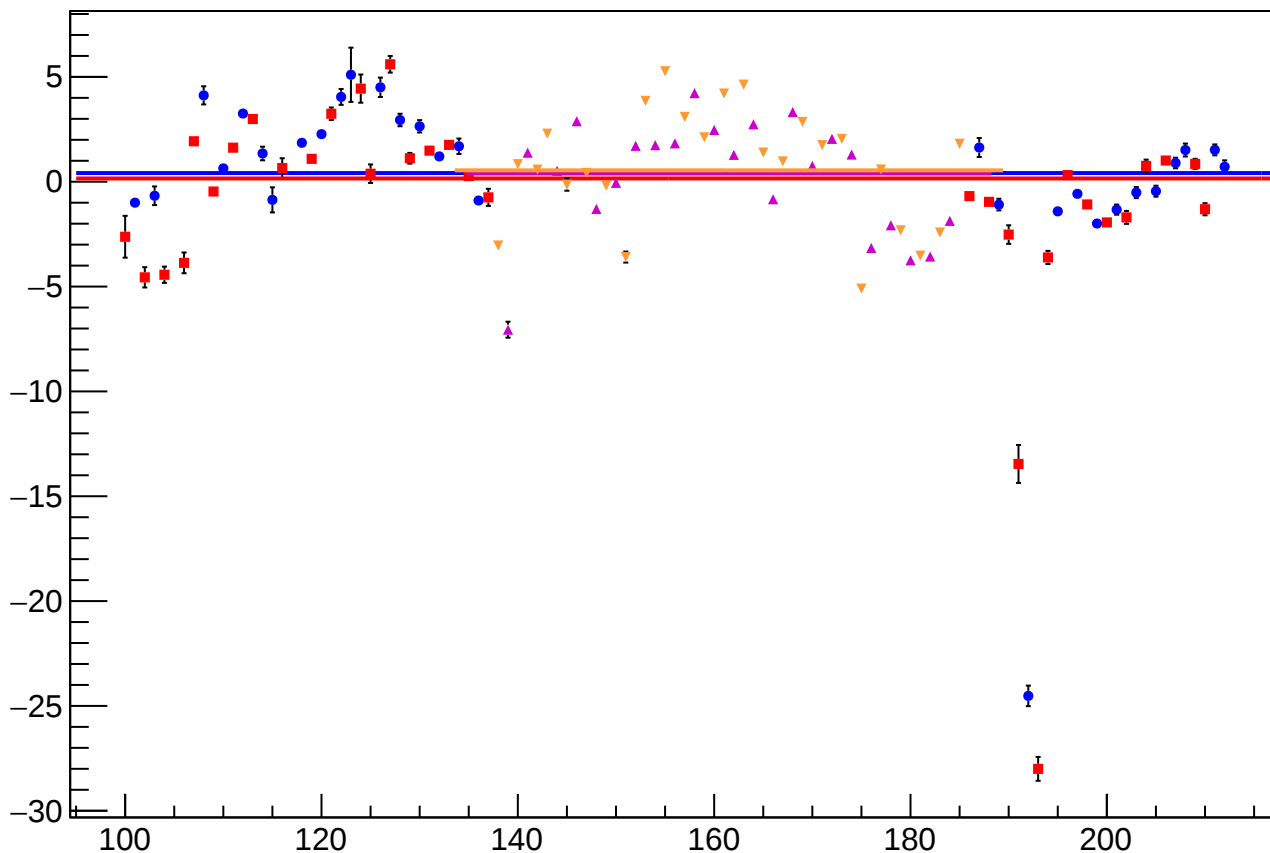
Right: 5.626 ± 0.037 $\chi^2/\text{NDF}: 53148.2/26$

In: -9.137 ± 0.031 $\chi^2/\text{NDF}: 194769.5/35$

Out: -9.659 ± 0.031 $\chi^2/\text{NDF}: 246896.7/38$

All: -9.396 ± 0.022 $\chi^2/\text{NDF}: 441807.5/74$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.414 $\pm$ 0.047 χ^2 /NDF: 3860.4/29

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF: 7085.3/24

Right Out: 0.157 $\pm$ 0.045 χ^2 /NDF: 4298.6/32

Left In: 0.397 $\pm$ 0.031 χ^2 /NDF: 6235.6/22

Left: 0.466 $\pm$ 0.022 χ^2 /NDF: 13331.6/47

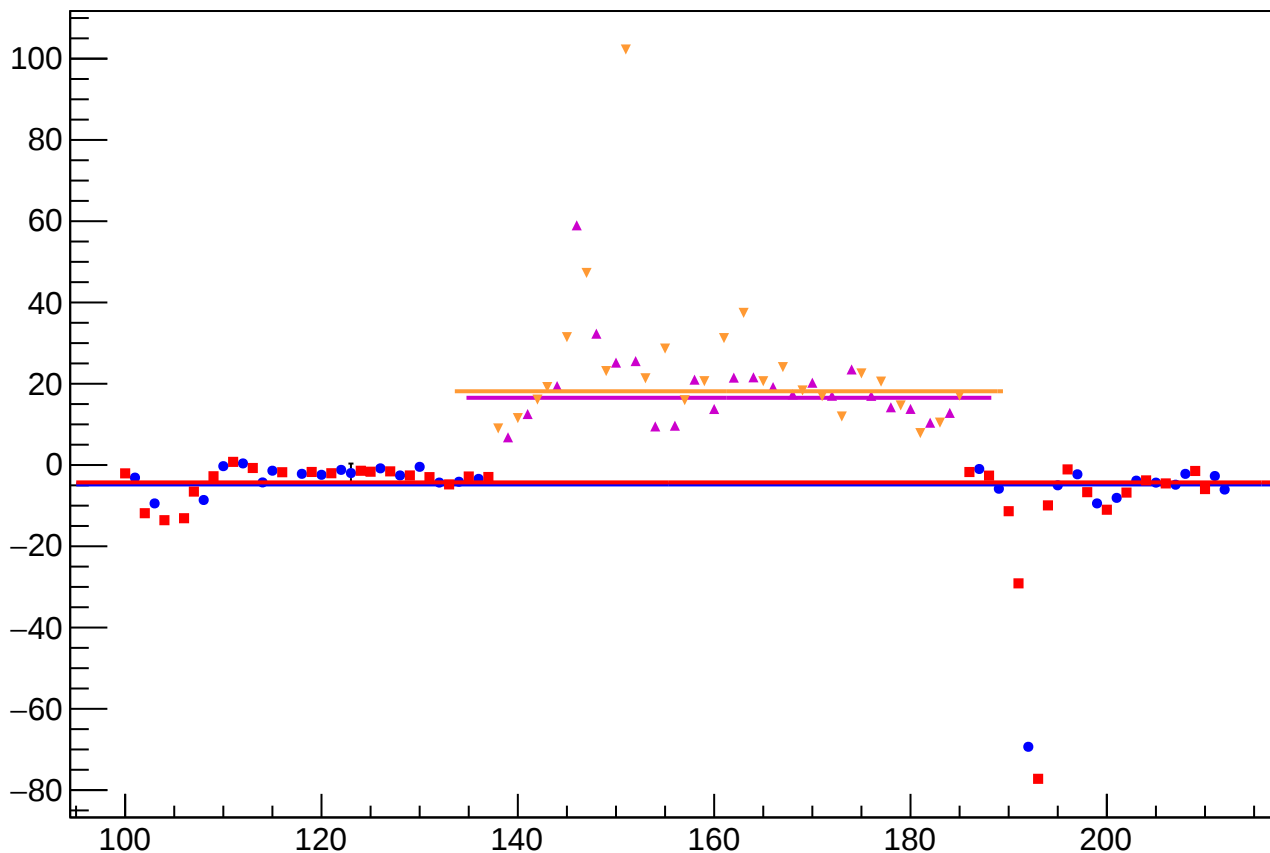
Right: 0.279 $\pm$ 0.032 χ^2 /NDF: 8174.8/62

In: 0.402 $\pm$ 0.026 χ^2 /NDF: 10096.1/52

Out: 0.410 $\pm$ 0.026 χ^2 /NDF: 11432.9/57

All: 0.406 $\pm$ 0.018 χ^2 /NDF: 21529.1/110

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.783 ± 0.045 $\chi^2/\text{NDF}: 27241.3/29$

Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$

Right Out: -4.277 ± 0.042 $\chi^2/\text{NDF}: 28231.1/32$

Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$

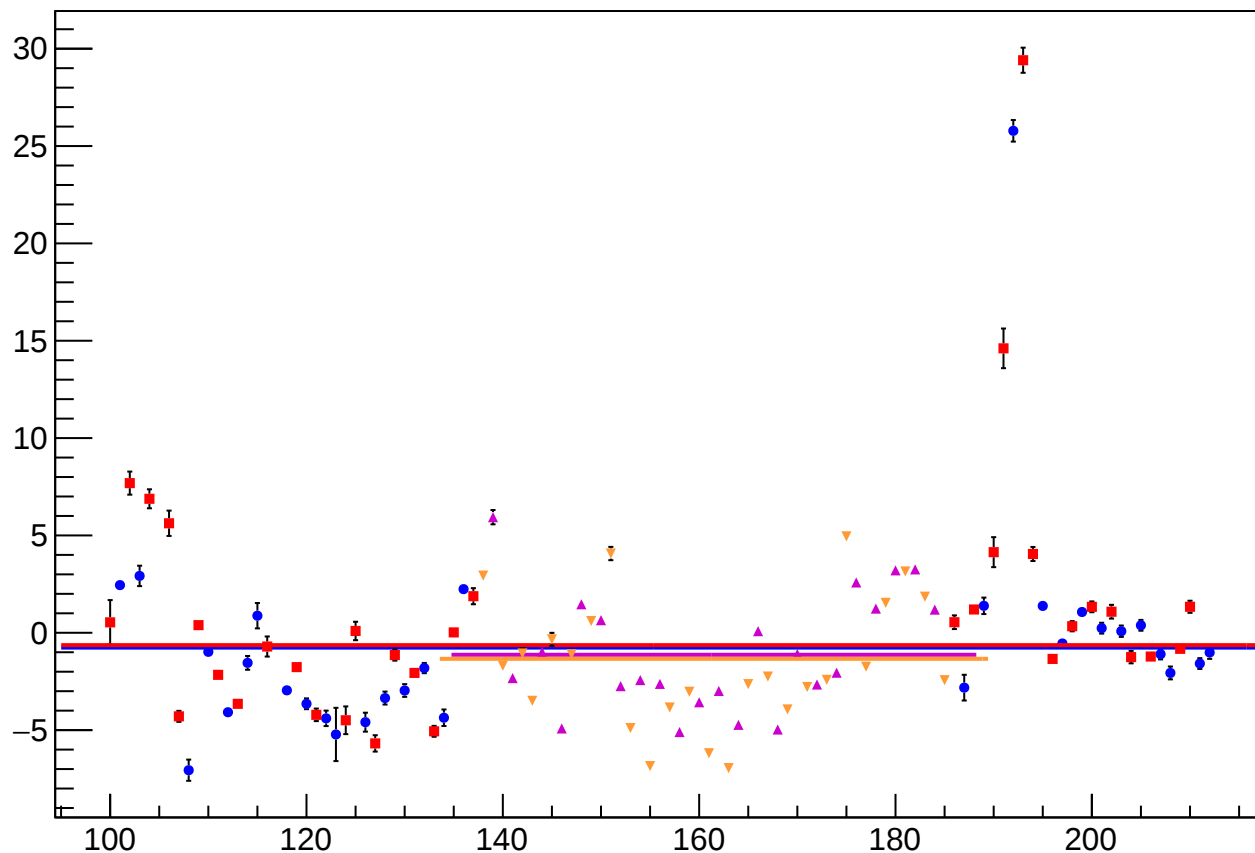
Right: -4.514 ± 0.031 $\chi^2/\text{NDF}: 55540.0/62$

In: 7.708 ± 0.029 $\chi^2/\text{NDF}: 200247.7/52$

Out: 7.744 ± 0.029 $\chi^2/\text{NDF}: 258782.7/57$

All: 7.726 ± 0.020 $\chi^2/\text{NDF}: 459031.2/110$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.761 ± 0.054 χ^2/NDF : 3941.6/29

Left Out: -1.338 ± 0.036 χ^2/NDF : 7943.1/24

Right Out: -0.634 ± 0.052 χ^2/NDF : 4516.4/32

Left In: -1.129 ± 0.034 χ^2/NDF : 6740.3/22

Left: -1.228 ± 0.025 χ^2/NDF : 14701.0/47

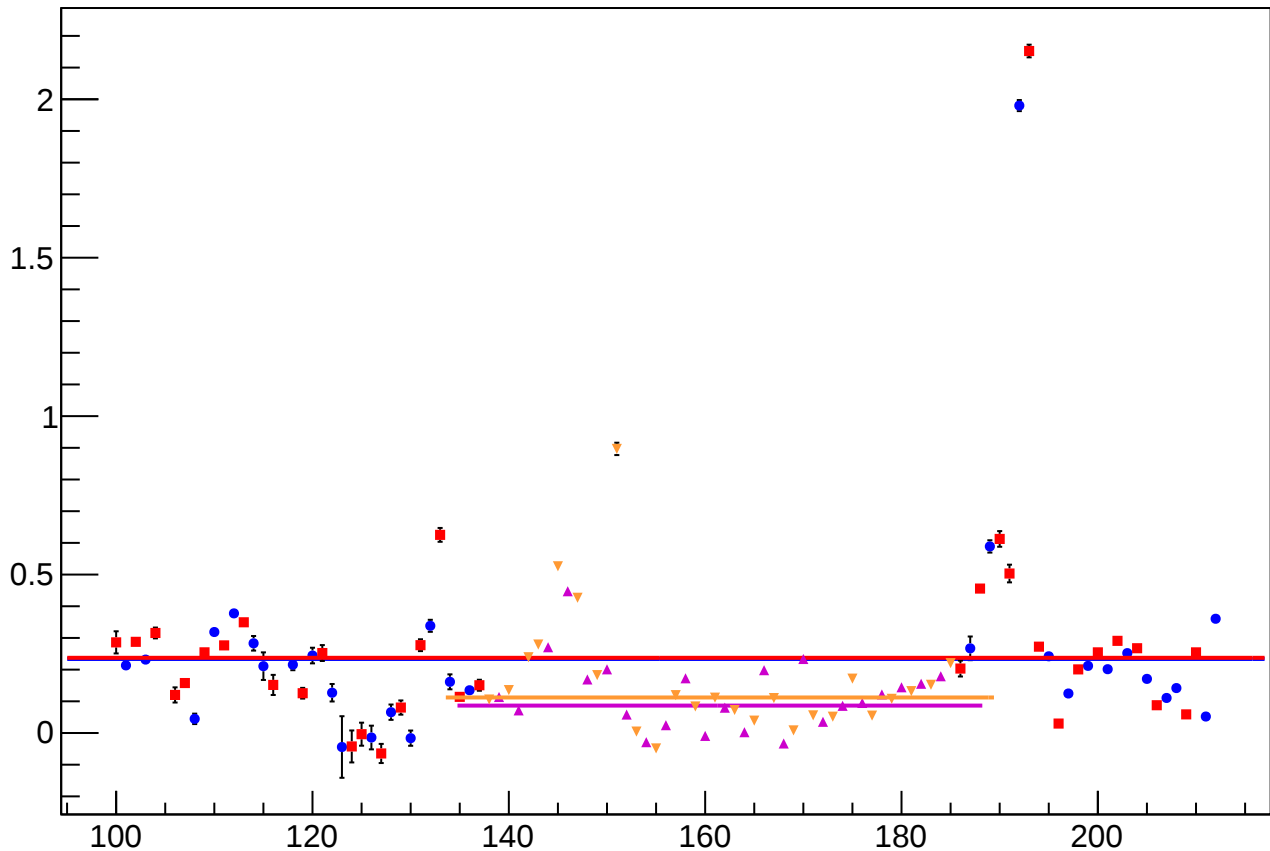
Right: -0.695 ± 0.037 χ^2/NDF : 8460.9/62

In: -1.024 ± 0.029 χ^2/NDF : 10715.2/52

Out: -1.109 ± 0.029 χ^2/NDF : 12584.2/57

All: -1.066 ± 0.021 χ^2/NDF : 23303.6/110

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.234 $\pm$ 0.002 χ^2 /NDF: 11698.1/29

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF: 4503.9/24

Right Out: 0.237 $\pm$ 0.002 χ^2 /NDF: 12110.2/32

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

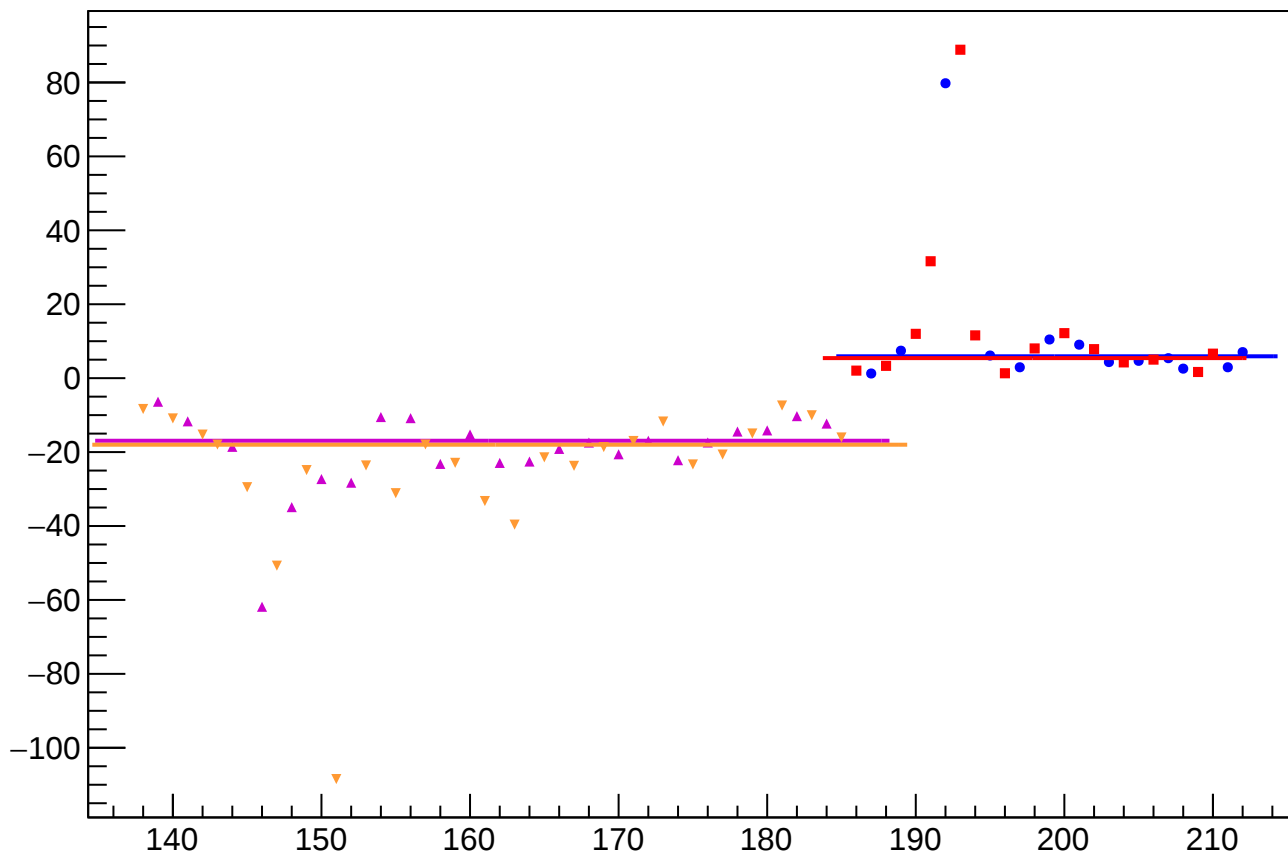
Right: 0.236 $\pm$ 0.002 χ^2 /NDF: 23809.4/62

In: 0.128 $\pm$ 0.001 χ^2 /NDF: 18080.4/52

Out: 0.152 $\pm$ 0.001 χ^2 /NDF: 18564.5/57

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 36814.3/110

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.916 $\pm$ 0.052 χ^2 /NDF: 26501.8/12

Left Out: -18.005 $\pm$ 0.039 χ^2 /NDF: 88391.0/24

Right Out: 5.426 $\pm$ 0.052 χ^2 /NDF: 27178.4/13

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

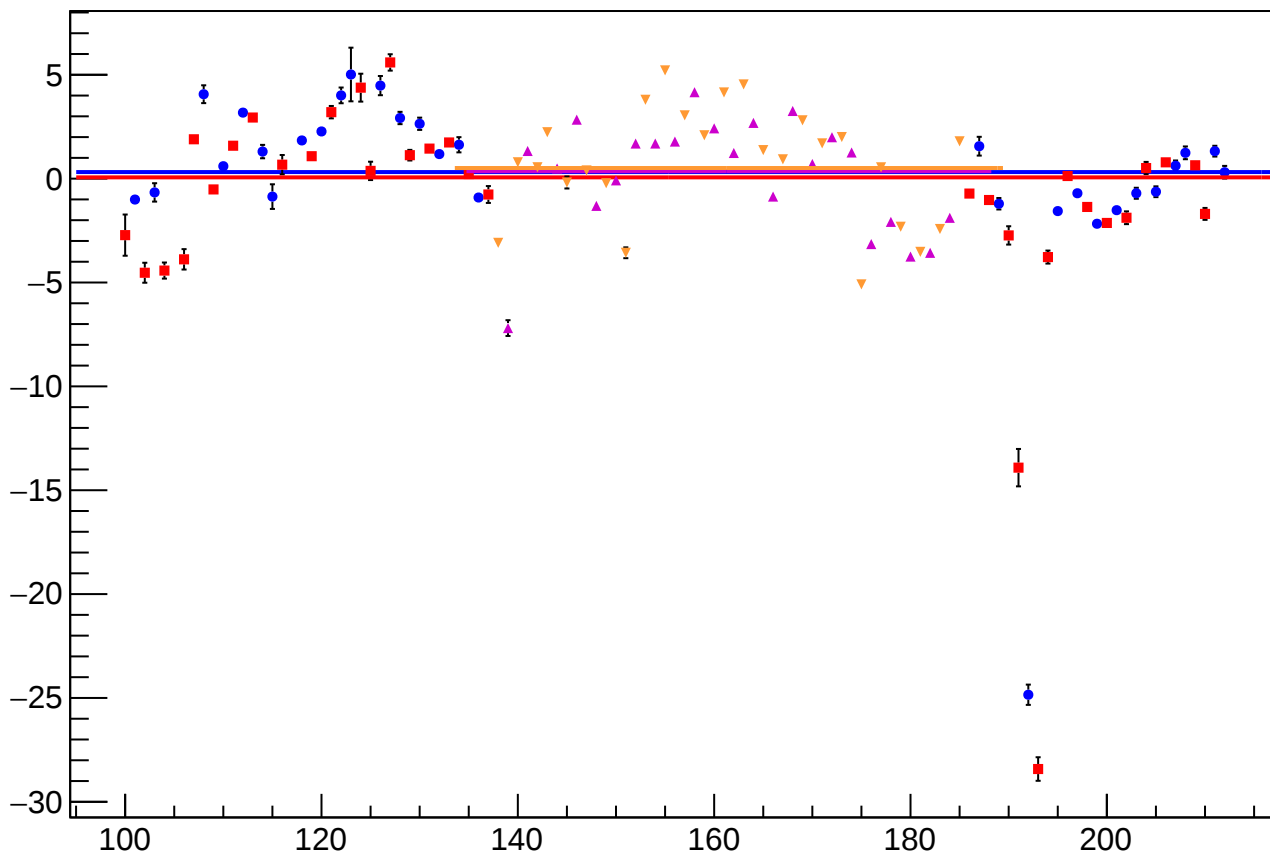
Right: 5.667 $\pm$ 0.037 χ^2 /NDF: 53724.8/26

In: -9.078 $\pm$ 0.031 χ^2 /NDF: 195511.7/35

Out: -9.571 $\pm$ 0.031 χ^2 /NDF: 247921.5/38

All: -9.323 $\pm$ 0.022 χ^2 /NDF: 443561.0/74

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.317 ± 0.047 $\chi^2/\text{NDF}: 3985.2/29$

Left Out: 0.511 ± 0.032 $\chi^2/\text{NDF}: 7070.4/24$

Right Out: 0.061 ± 0.044 $\chi^2/\text{NDF}: 4467.3/32$

Left In: 0.360 ± 0.031 $\chi^2/\text{NDF}: 6221.1/22$

Left: 0.432 ± 0.022 $\chi^2/\text{NDF}: 13303.2/47$

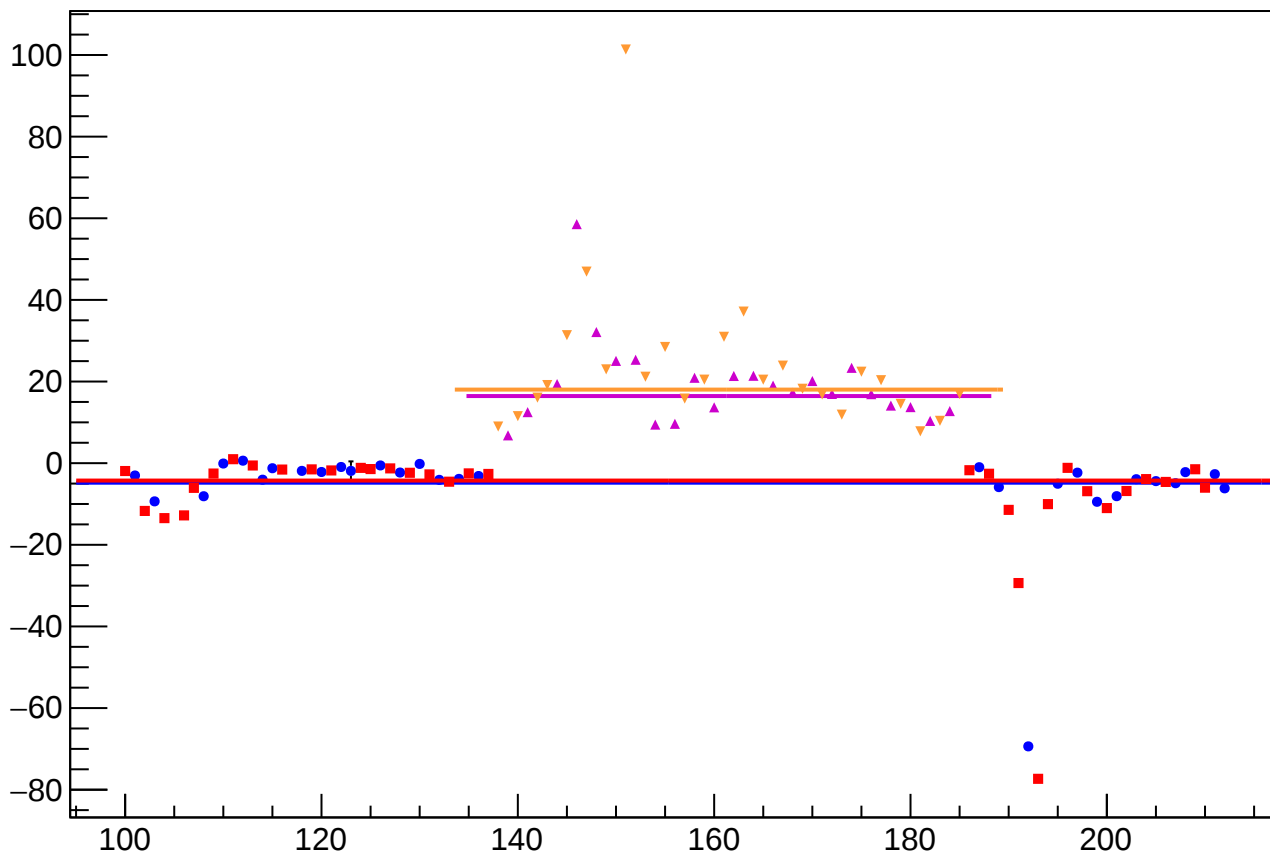
Right: 0.183 ± 0.032 $\chi^2/\text{NDF}: 8468.2/62$

In: 0.347 ± 0.026 $\chi^2/\text{NDF}: 10206.9/52$

Out: 0.357 ± 0.026 $\chi^2/\text{NDF}: 11605.0/57$

All: 0.352 ± 0.018 $\chi^2/\text{NDF}: 21812.0/110$

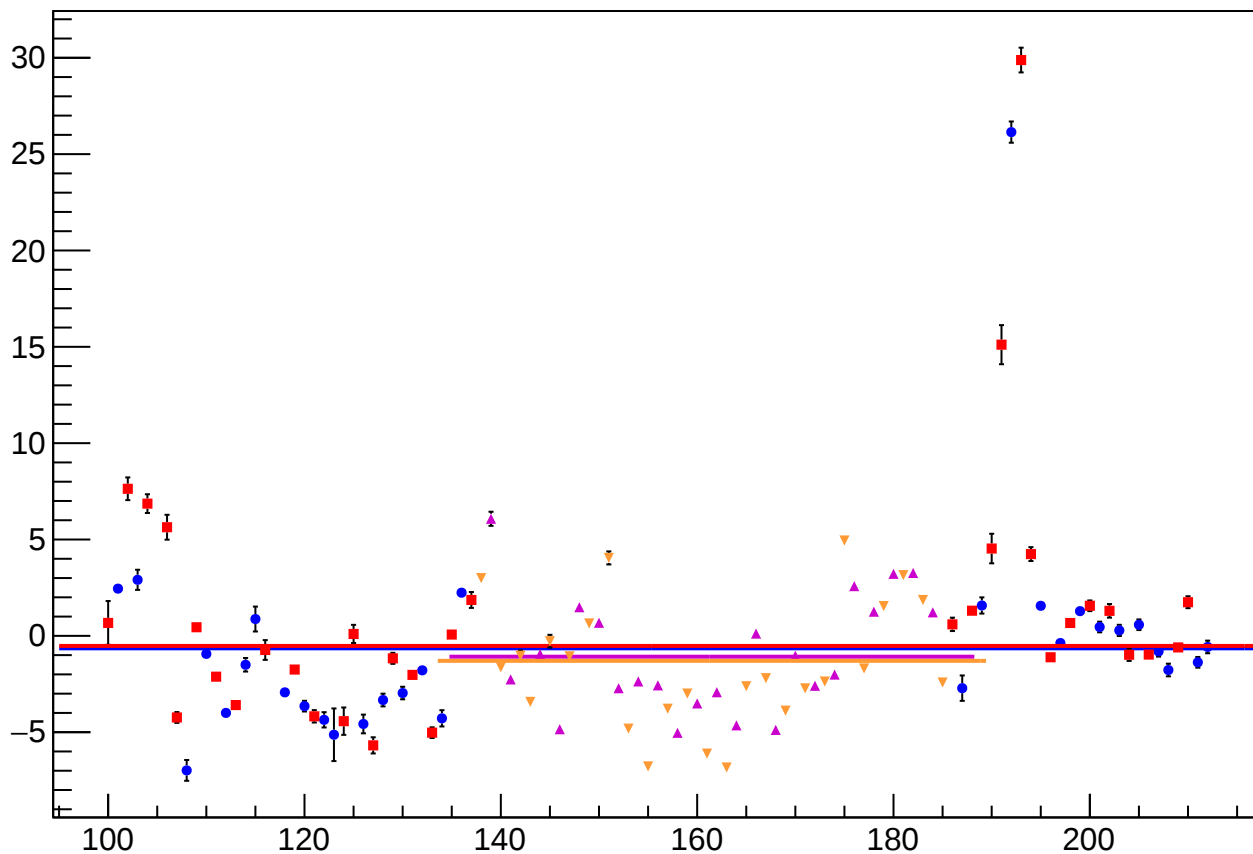
reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.780 ± 0.045 $\chi^2/\text{NDF}: 27564.5/29$
 Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$
 Right Out: -4.260 ± 0.042 $\chi^2/\text{NDF}: 28698.4/32$
 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: -4.502 ± 0.031 $\chi^2/\text{NDF}: 56335.0/62$
 In: 7.674 ± 0.029 $\chi^2/\text{NDF}: 200608.2/52$
 Out: 7.689 ± 0.028 $\chi^2/\text{NDF}: 259305.5/57$
 All: 7.682 ± 0.020 $\chi^2/\text{NDF}: 459913.8/110$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.647 ± 0.054 $\chi^2/\text{NDF}: 4044.7/29$

Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$

Right Out: -0.523 ± 0.051 $\chi^2/\text{NDF}: 4680.2/32$

Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$

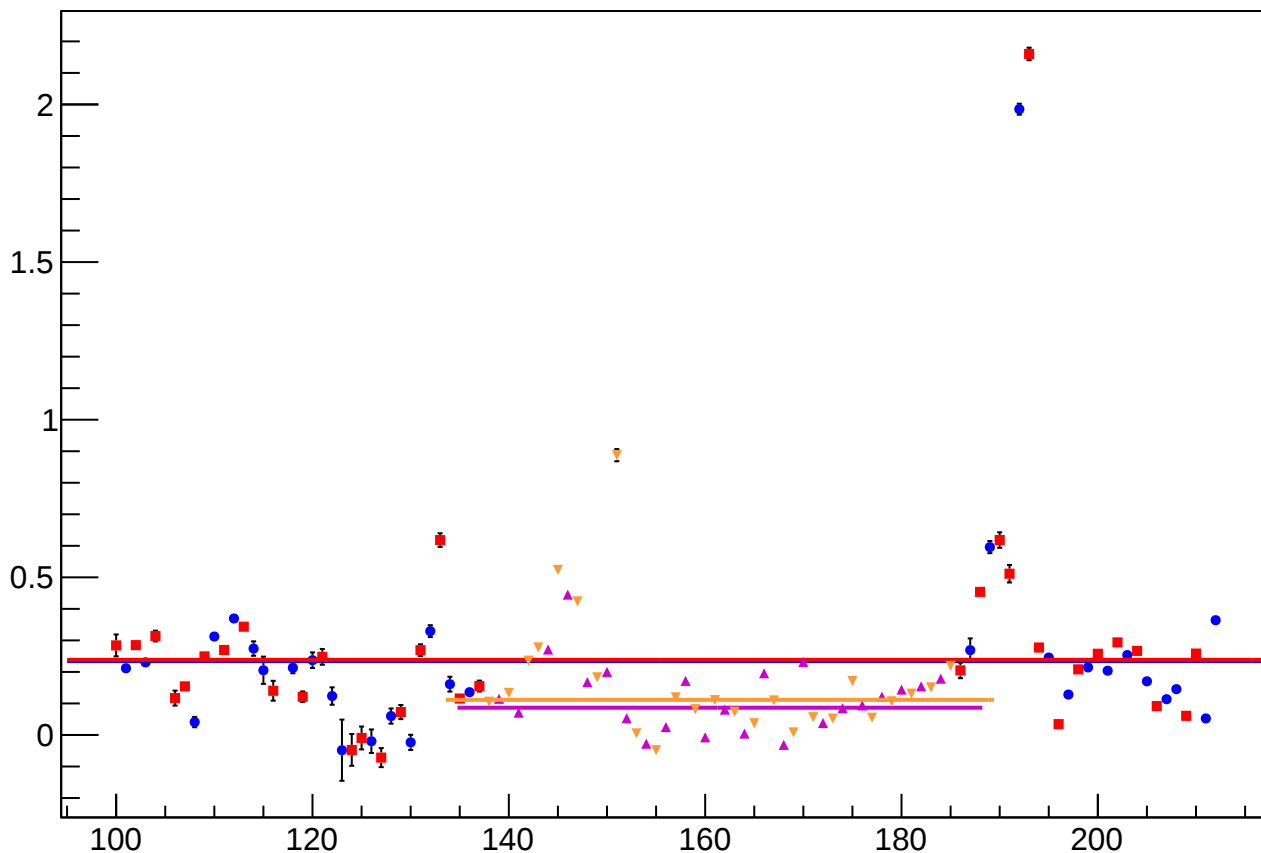
Right: -0.582 ± 0.037 $\chi^2/\text{NDF}: 8727.7/62$

In: -0.958 ± 0.029 $\chi^2/\text{NDF}: 10815.6/52$

Out: -1.046 ± 0.029 $\chi^2/\text{NDF}: 12758.3/57$

All: -1.001 ± 0.020 $\chi^2/\text{NDF}: 23578.6/110$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.234 $\pm$ 0.002 χ^2 /NDF: 11824.2/29

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.238 $\pm$ 0.002 χ^2 /NDF: 12237.8/32

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

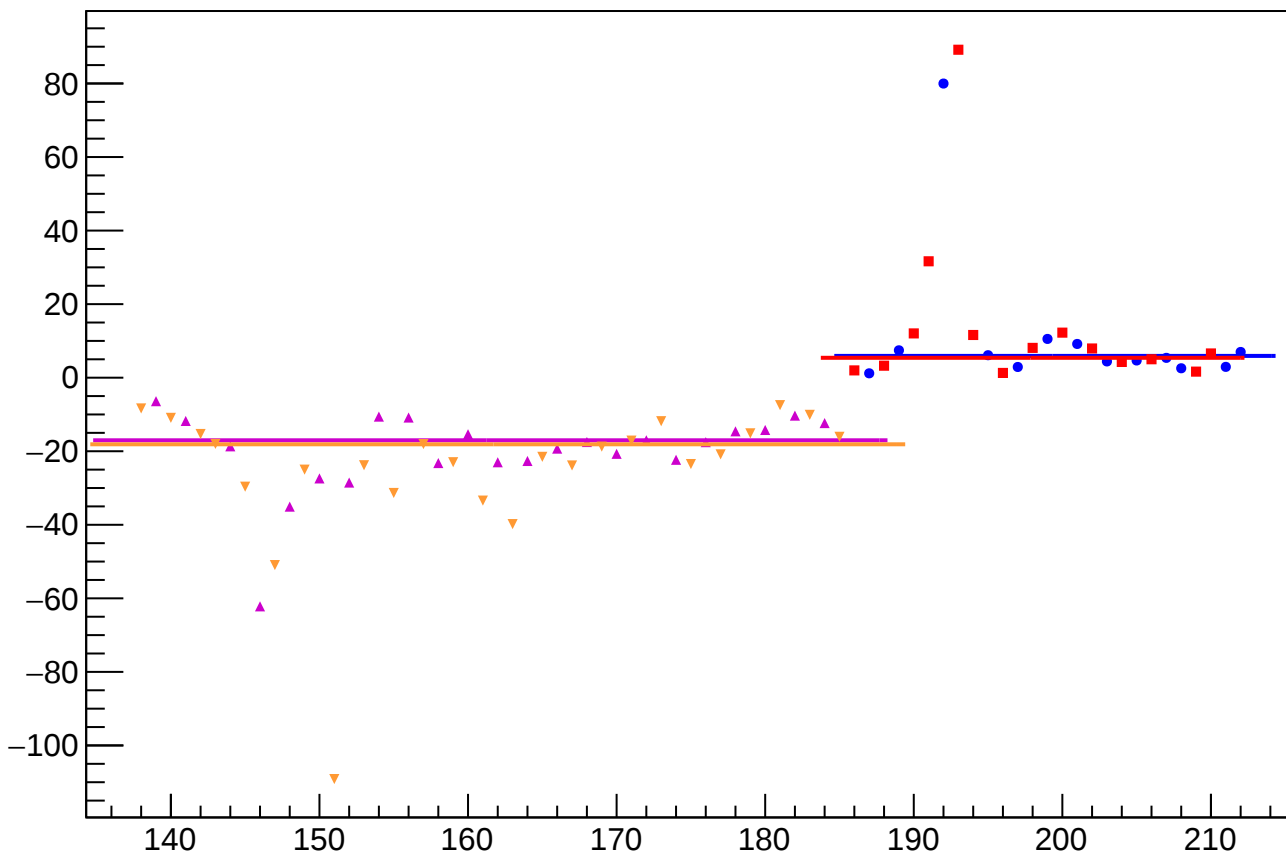
Right: 0.236 $\pm$ 0.002 χ^2 /NDF: 24063.5/62

In: 0.128 $\pm$ 0.001 χ^2 /NDF:18230.5/52

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:18763.7/57

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 37161.1/110

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.924+/-0.053 χ^2/NDF : 26490.4/12

Left Out: -18.112+/-0.039 χ^2/NDF : 88529.7/24

Right Out: 5.408+/-0.052 χ^2/NDF : 27194.3/13

Left In: -17.024+/-0.038 χ^2/NDF : 44141.8/22

Left: -17.557+/-0.027 χ^2/NDF : 133072.9/47

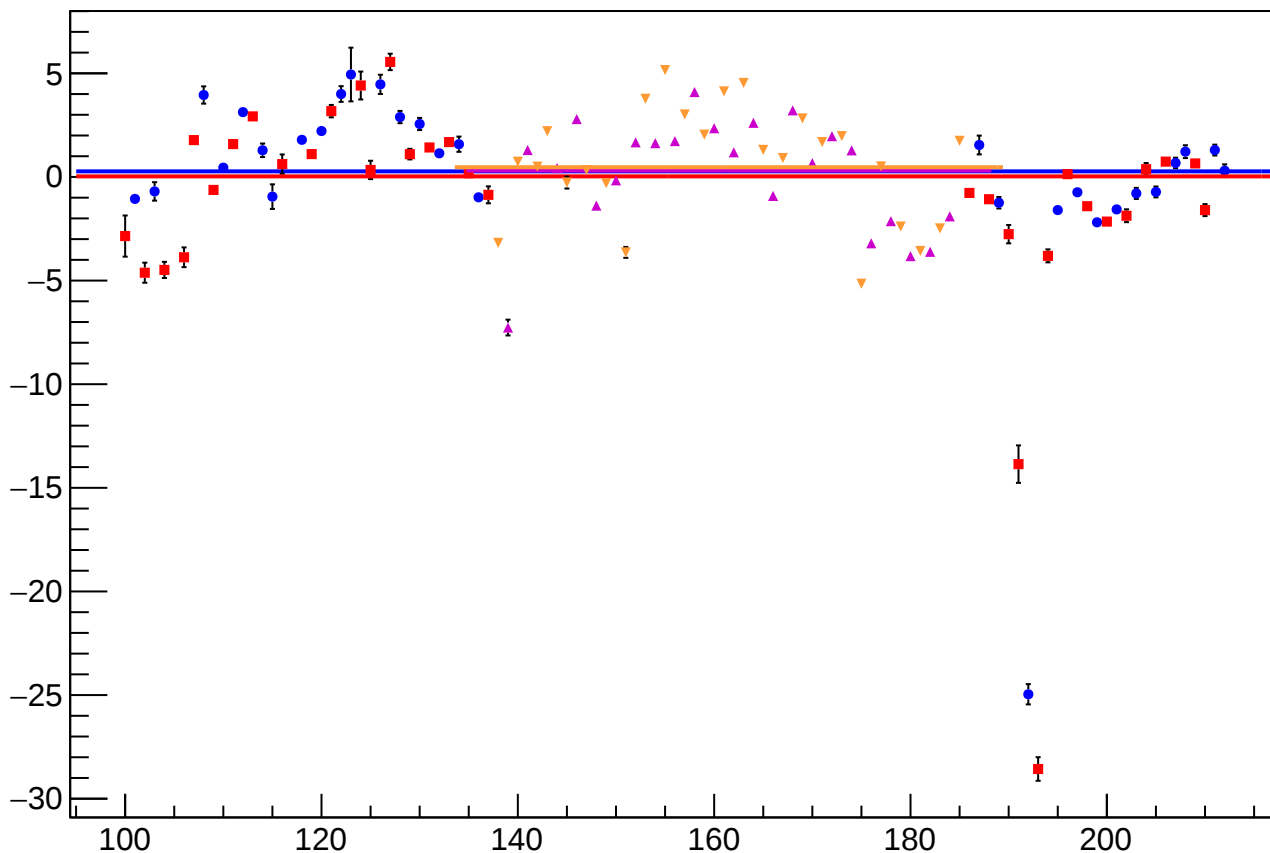
Right: 5.661+/-0.037 χ^2/NDF : 53733.7/26

In: -9.164+/-0.031 χ^2/NDF : 195207.5/35

Out: -9.648+/-0.031 χ^2/NDF : 247920.2/38

All: -9.405+/-0.022 χ^2/NDF : 443249.9/74

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.270 $\pm$ 0.047 χ^2 /NDF: 3973.7/29

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF: 7093.0/24

Right Out: 0.028 $\pm$ 0.045 χ^2 /NDF: 4454.5/32

Left In: 0.311 $\pm$ 0.031 χ^2 /NDF: 6183.1/22

Left: 0.386 $\pm$ 0.022 χ^2 /NDF: 13288.8/47

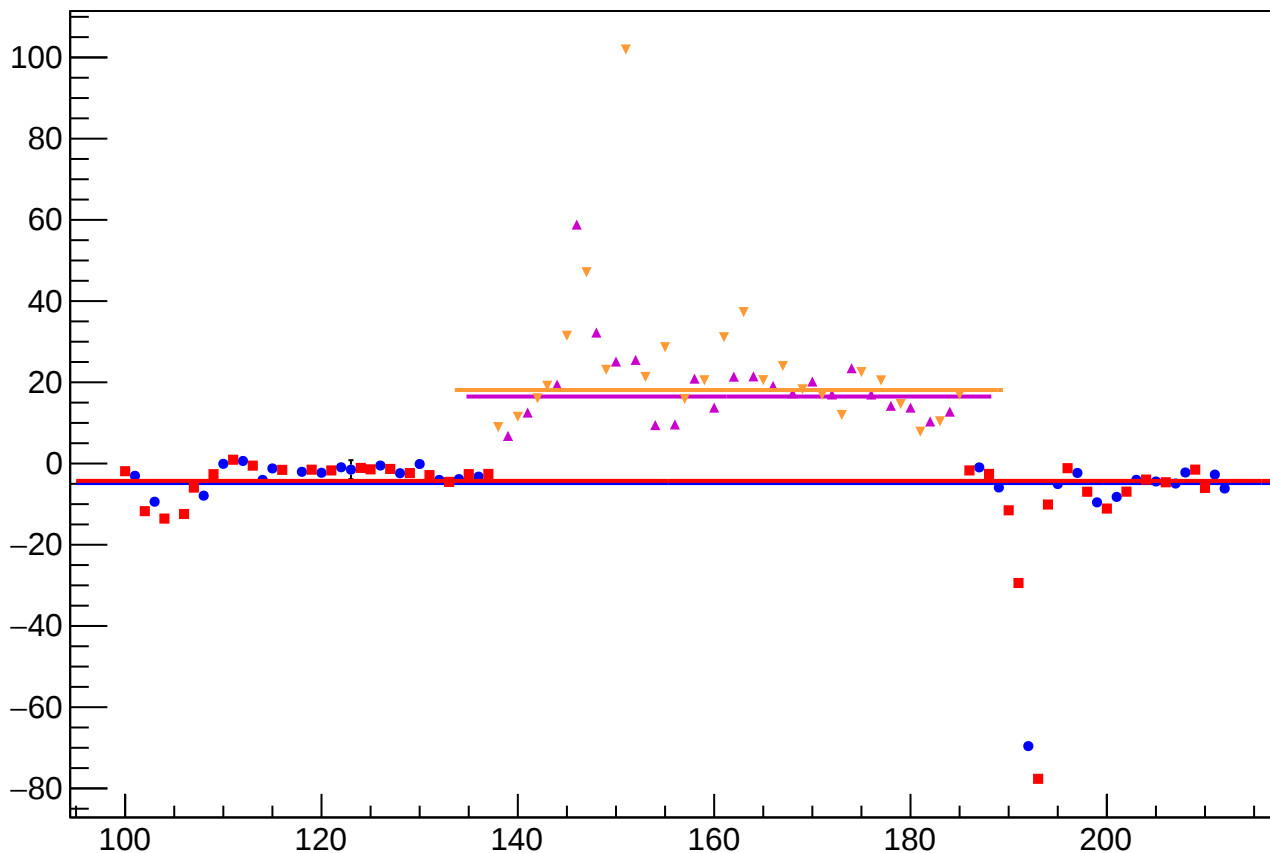
Right: 0.143 $\pm$ 0.032 χ^2 /NDF: 8442.2/62

In: 0.299 $\pm$ 0.026 χ^2 /NDF: 10157.3/52

Out: 0.317 $\pm$ 0.026 χ^2 /NDF: 11611.7/57

All: 0.308 $\pm$ 0.018 χ^2 /NDF: 21769.3/110

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.812 ± 0.045 $\chi^2/\text{NDF}: 27555.9/29$

Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$

Right Out: -4.272 ± 0.042 $\chi^2/\text{NDF}: 28705.0/32$

Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$

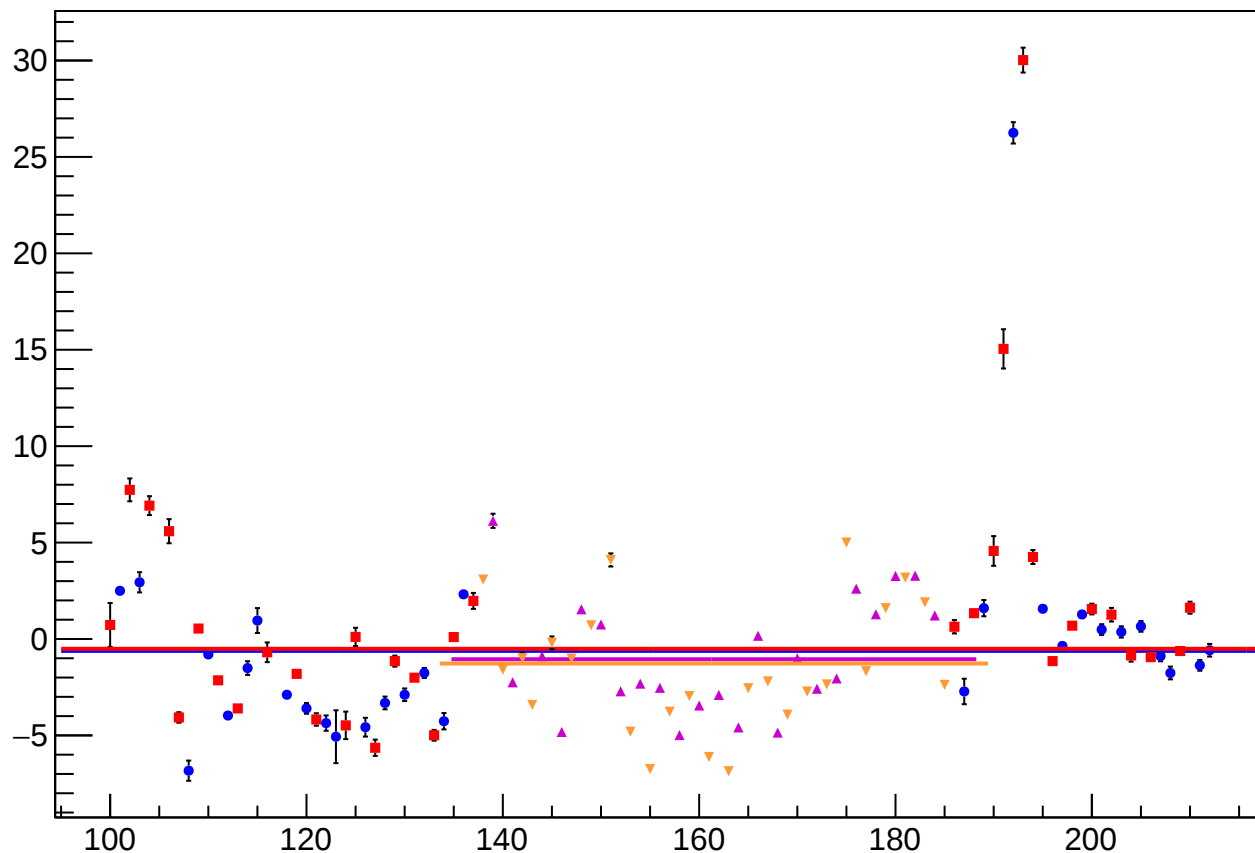
Right: -4.523 ± 0.031 $\chi^2/\text{NDF}: 56338.1/62$

In: 7.720 ± 0.029 $\chi^2/\text{NDF}: 200313.7/52$

Out: 7.719 ± 0.029 $\chi^2/\text{NDF}: 259343.6/57$

All: 7.720 ± 0.020 $\chi^2/\text{NDF}: 459657.3/110$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

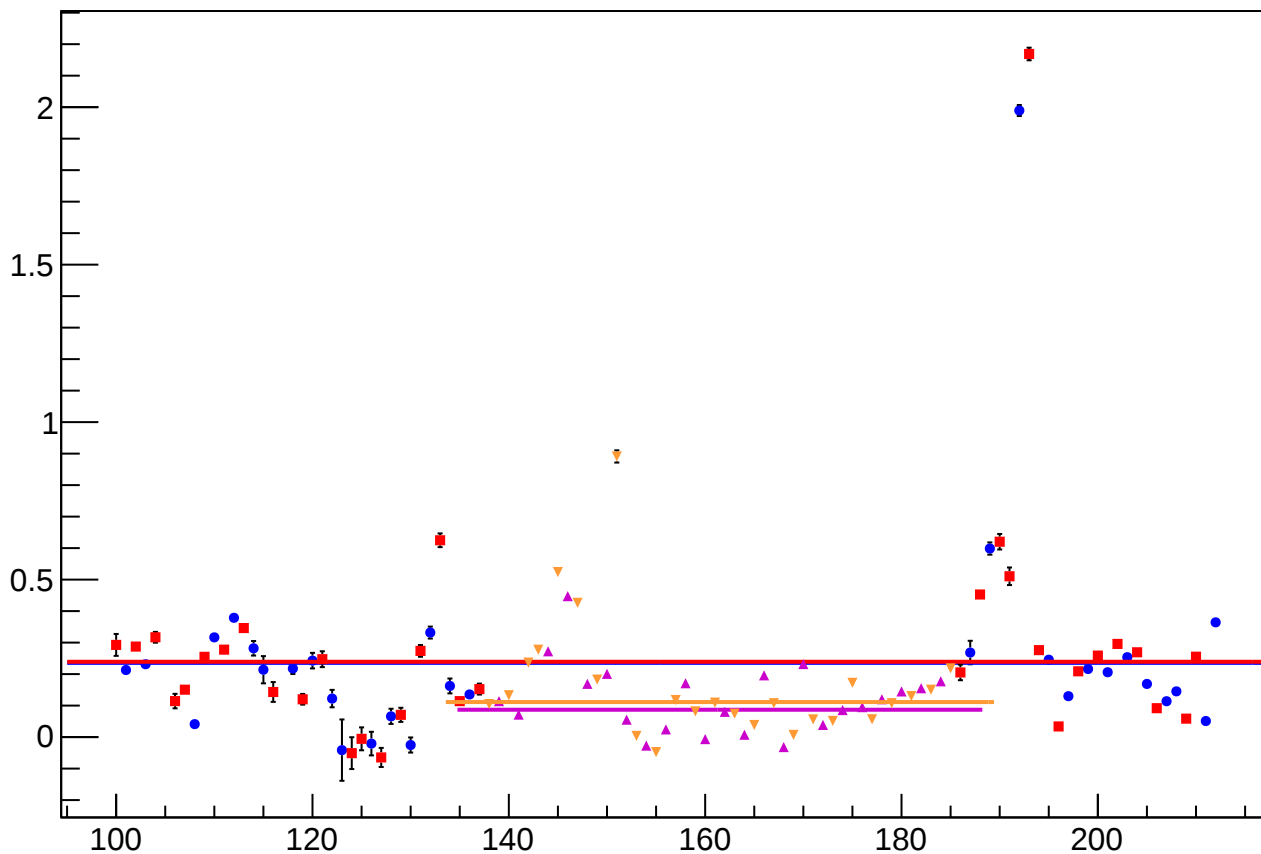


Right In: -0.616 ± 0.054 $\chi^2/\text{NDF}: 4037.1/29$
 Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$
 Right Out: -0.509 ± 0.052 $\chi^2/\text{NDF}: 4669.5/32$
 Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$
 Right: -0.560 ± 0.037 $\chi^2/\text{NDF}: 8708.6/62$
 In: -0.927 ± 0.029 $\chi^2/\text{NDF}: 10756.9/52$
 Out: -1.025 ± 0.029 $\chi^2/\text{NDF}: 12768.7/57$

All: -0.975 ± 0.021 $\chi^2/\text{NDF}: 23531.2/110$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.236 $\pm$ 0.002 χ^2 /NDF: 11819.8/29

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4474.5/24

Right Out: 0.239 $\pm$ 0.002 χ^2 /NDF: 12256.3/32

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3598.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8197.1/47

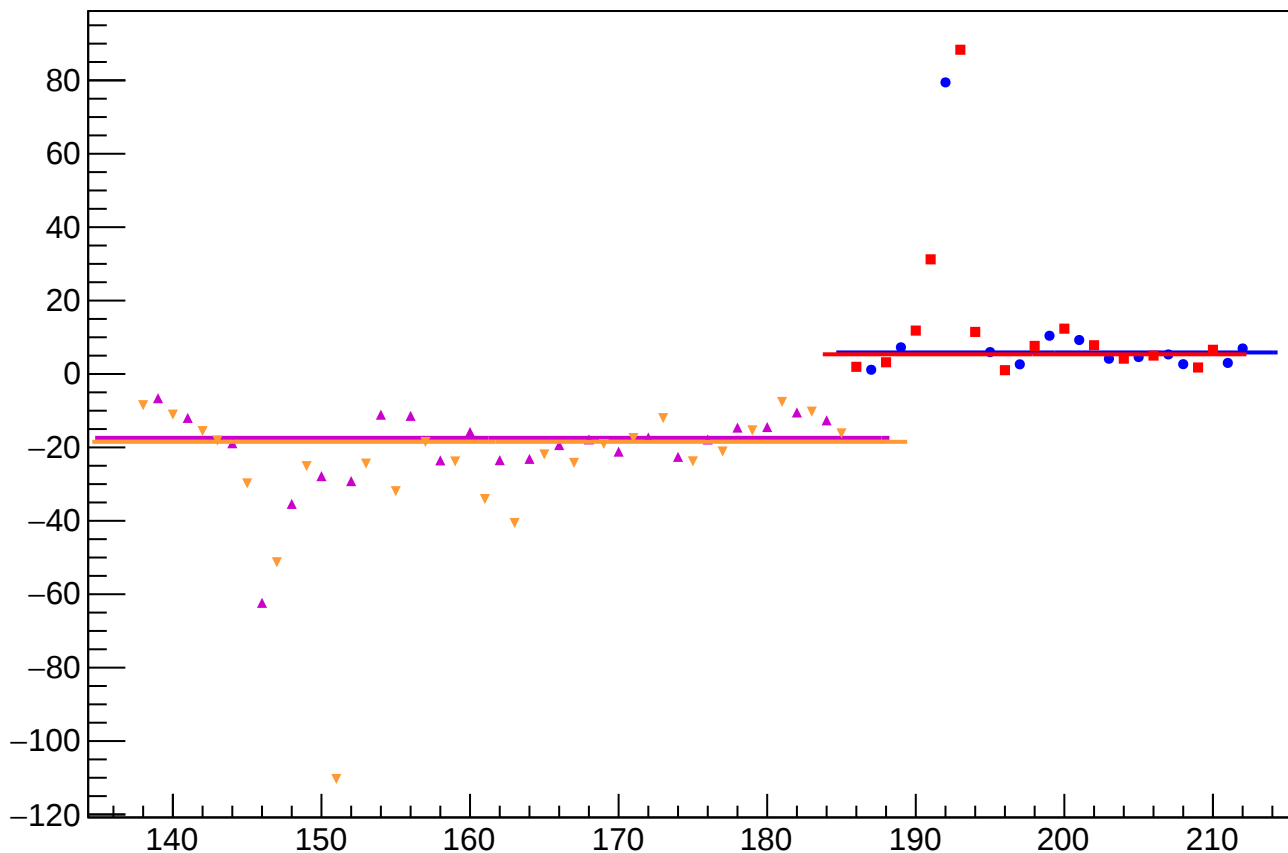
Right: 0.237 $\pm$ 0.002 χ^2 /NDF: 24077.2/62

In: 0.129 $\pm$ 0.001 χ^2 /NDF:18207.1/52

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:18771.7/57

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 37139.0/110

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.869+/-0.053 χ^2/NDF : 26016.4/12

Left Out: -18.479+/-0.040 χ^2/NDF : 87883.4/24

Right Out: 5.365+/-0.052 χ^2/NDF : 26608.3/13

Left In: -17.393+/-0.039 χ^2/NDF : 43178.9/22

Left: -17.926+/-0.028 χ^2/NDF : 131443.9/47

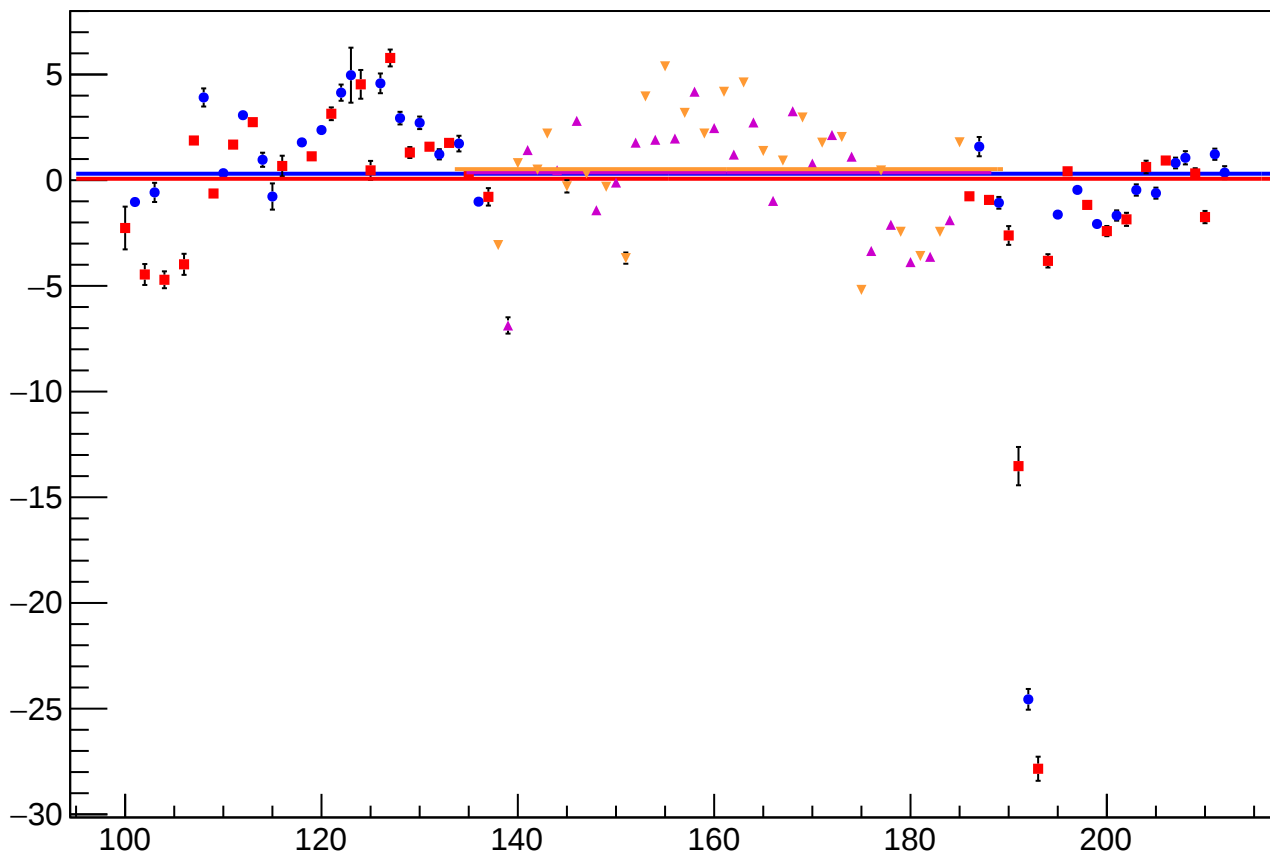
Right: 5.612+/-0.037 χ^2/NDF : 52670.8/26

In: -9.243+/-0.031 χ^2/NDF : 194099.7/35

Out: -9.697+/-0.032 χ^2/NDF : 247355.5/38

All: -9.469+/-0.022 χ^2/NDF : 441559.1/74

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.305 $\pm$ 0.048 χ^2 /NDF: 3835.8/29

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF:7055.1/24

Right Out: 0.067 $\pm$ 0.045 χ^2 /NDF: 4300.6/32

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

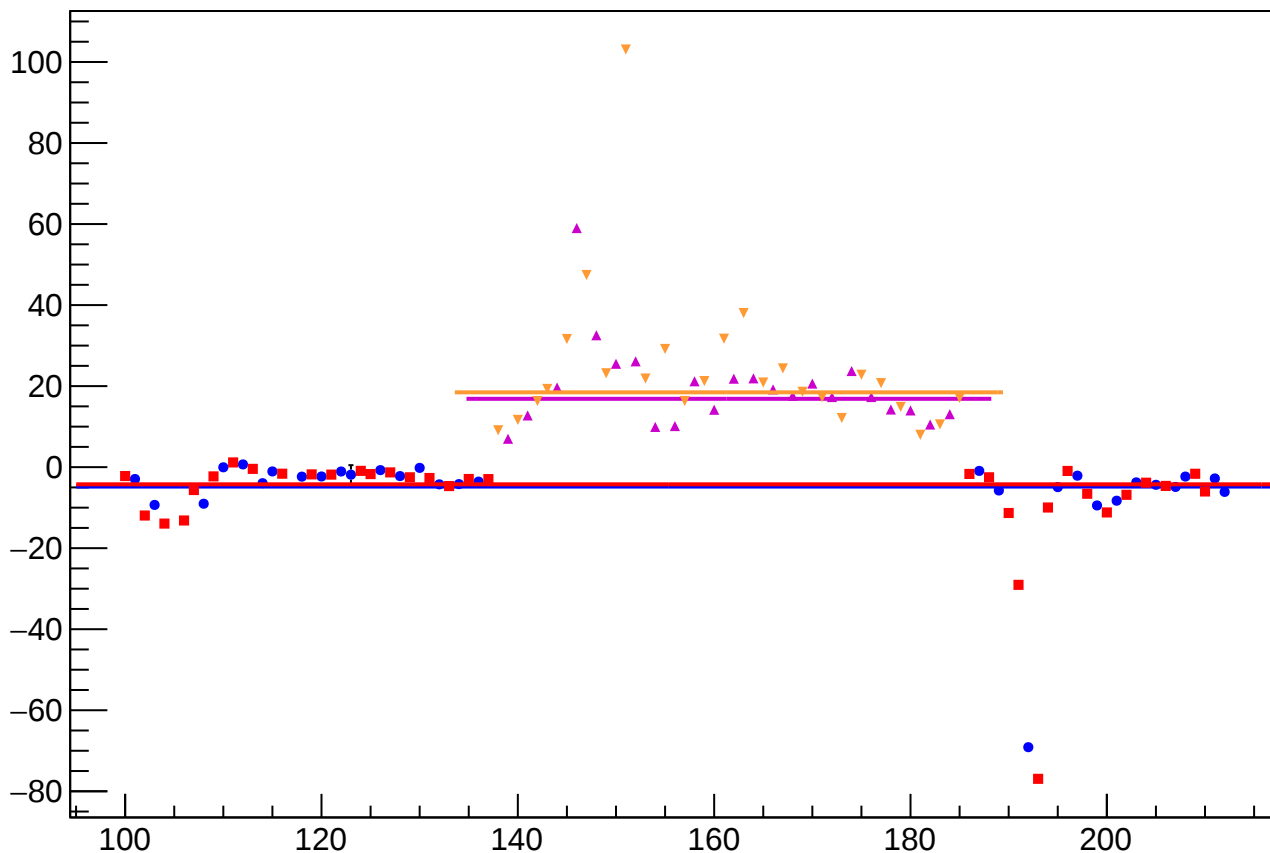
Right: 0.180 $\pm$ 0.033 χ^2 /NDF: 8149.6/62

In: 0.351 $\pm$ 0.026 χ^2 /NDF:10054.5/52

Out: 0.364 $\pm$ 0.027 χ^2 /NDF:11421.7/57

All: 0.357 $\pm$ 0.019 χ^2 /NDF: 21476.4/110

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.792 ± 0.045 $\chi^2/\text{NDF}: 27045.7/29$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -4.238 ± 0.042 $\chi^2/\text{NDF}: 28148.6/32$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

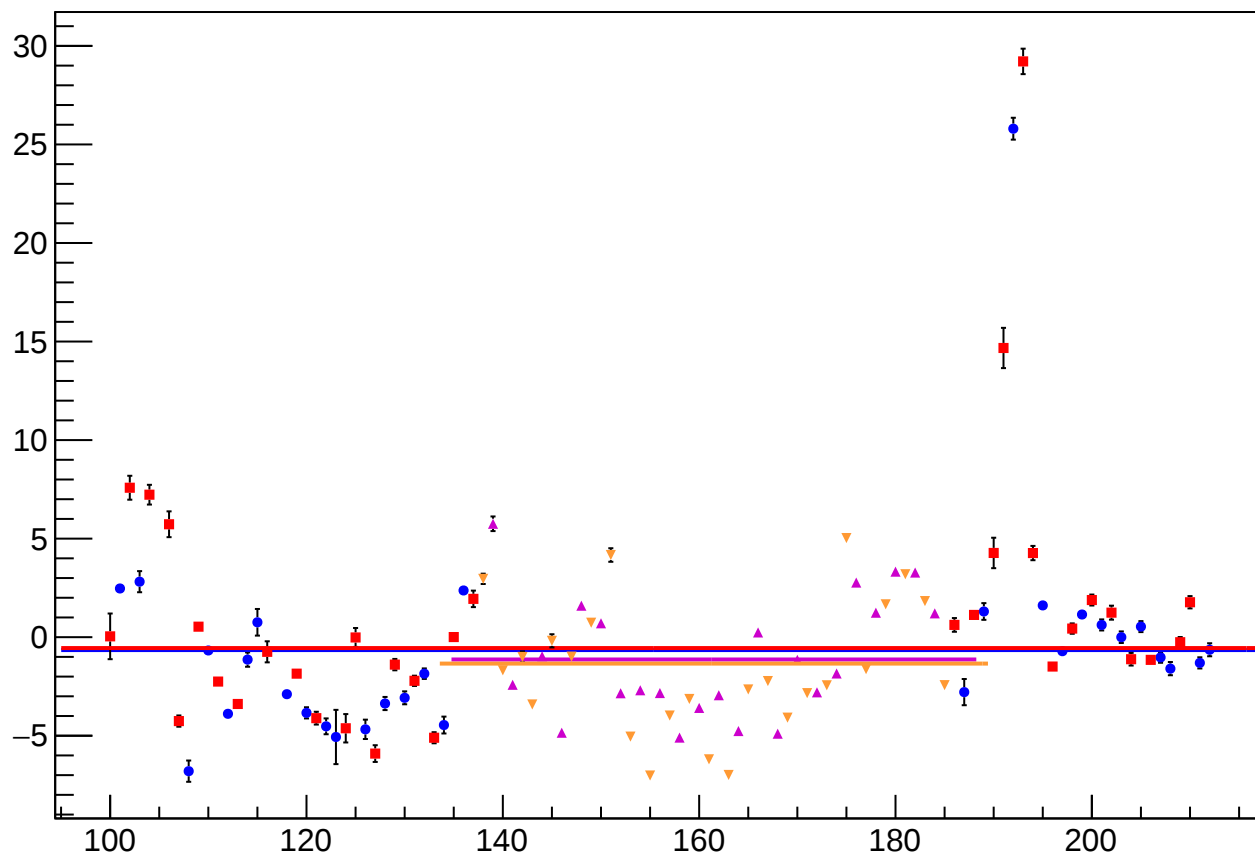
Right: -4.495 ± 0.031 $\chi^2/\text{NDF}: 55274.2/62$

In: 7.779 ± 0.029 $\chi^2/\text{NDF}: 199163.5/52$

Out: 7.756 ± 0.029 $\chi^2/\text{NDF}: 258249.2/57$

All: 7.768 ± 0.021 $\chi^2/\text{NDF}: 457413.0/110$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.654 ± 0.055 $\chi^2/\text{NDF}: 3915.5/29$

Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$

Right Out: -0.552 ± 0.052 $\chi^2/\text{NDF}: 4527.5/32$

Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$

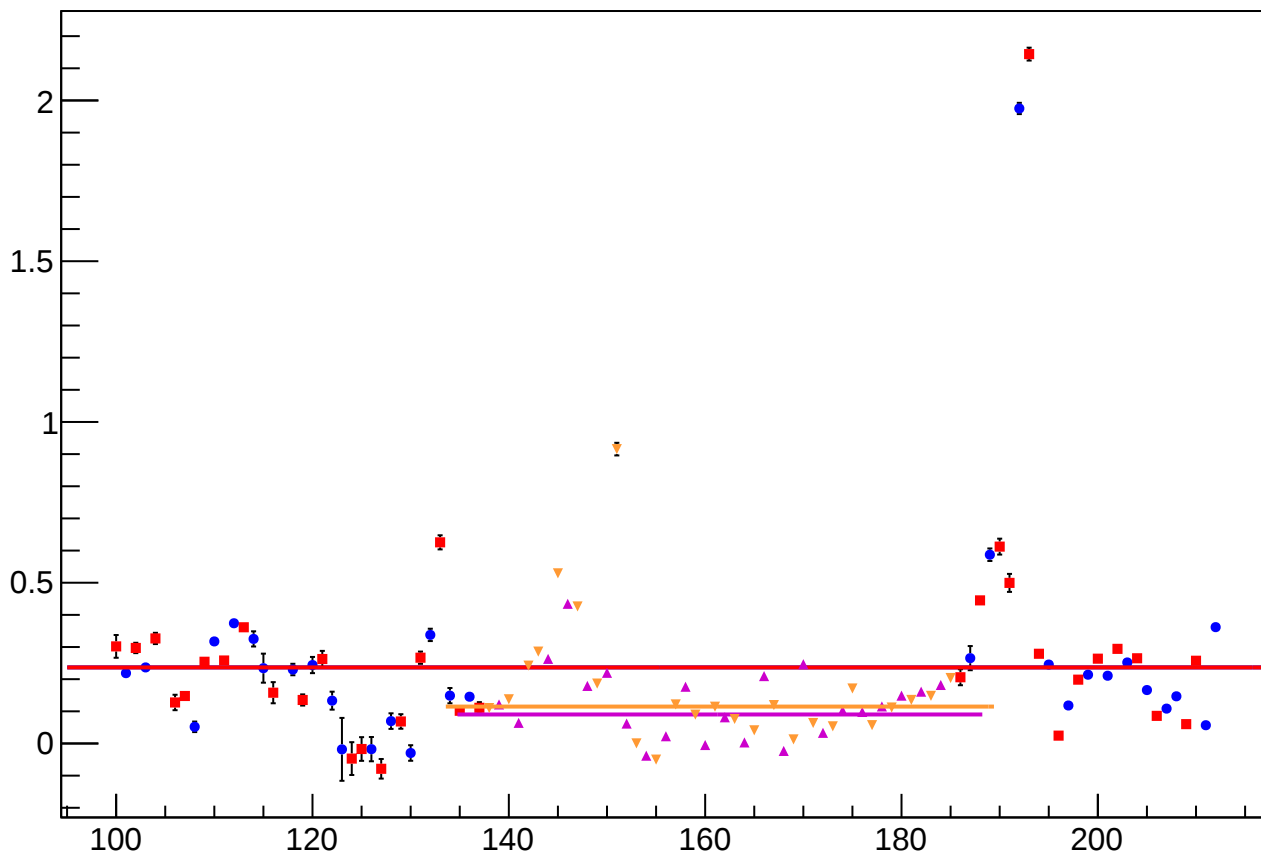
Right: -0.601 ± 0.038 $\chi^2/\text{NDF}: 8444.8/62$

In: -0.994 ± 0.029 $\chi^2/\text{NDF}: 10678.4/52$

Out: -1.082 ± 0.030 $\chi^2/\text{NDF}: 12586.7/57$

All: -1.037 ± 0.021 $\chi^2/\text{NDF}: 23269.6/110$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.237 $\pm$ 0.002 χ^2 /NDF: 11557.3/29

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.237 $\pm$ 0.002 χ^2 /NDF: 12103.5/32

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

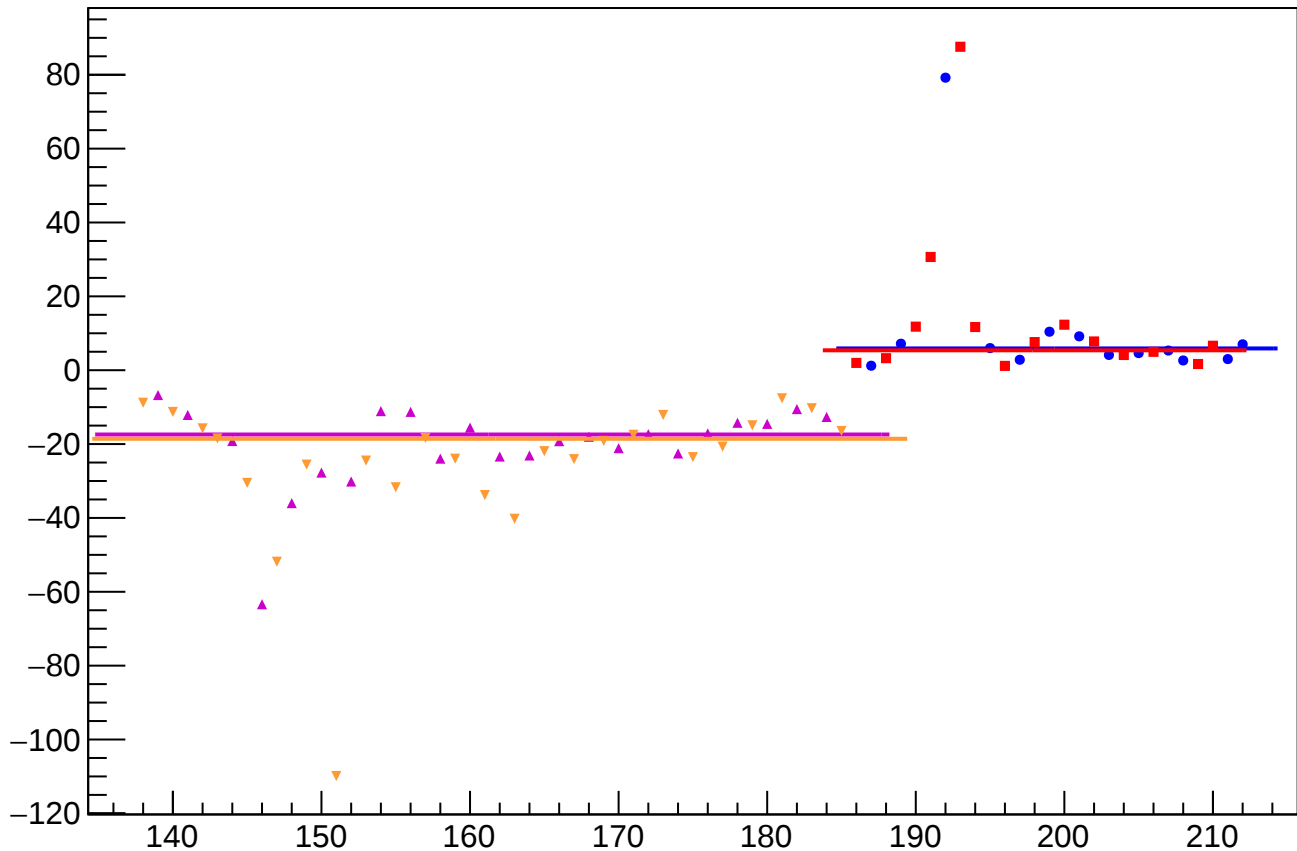
Right: 0.237 $\pm$ 0.002 χ^2 /NDF: 23660.9/62

In: 0.133 $\pm$ 0.001 χ^2 /NDF:17858.9/52

Out: 0.154 $\pm$ 0.001 χ^2 /NDF:18332.8/57

All: 0.143 $\pm$ 0.001 χ^2 /NDF: 36327.4/110

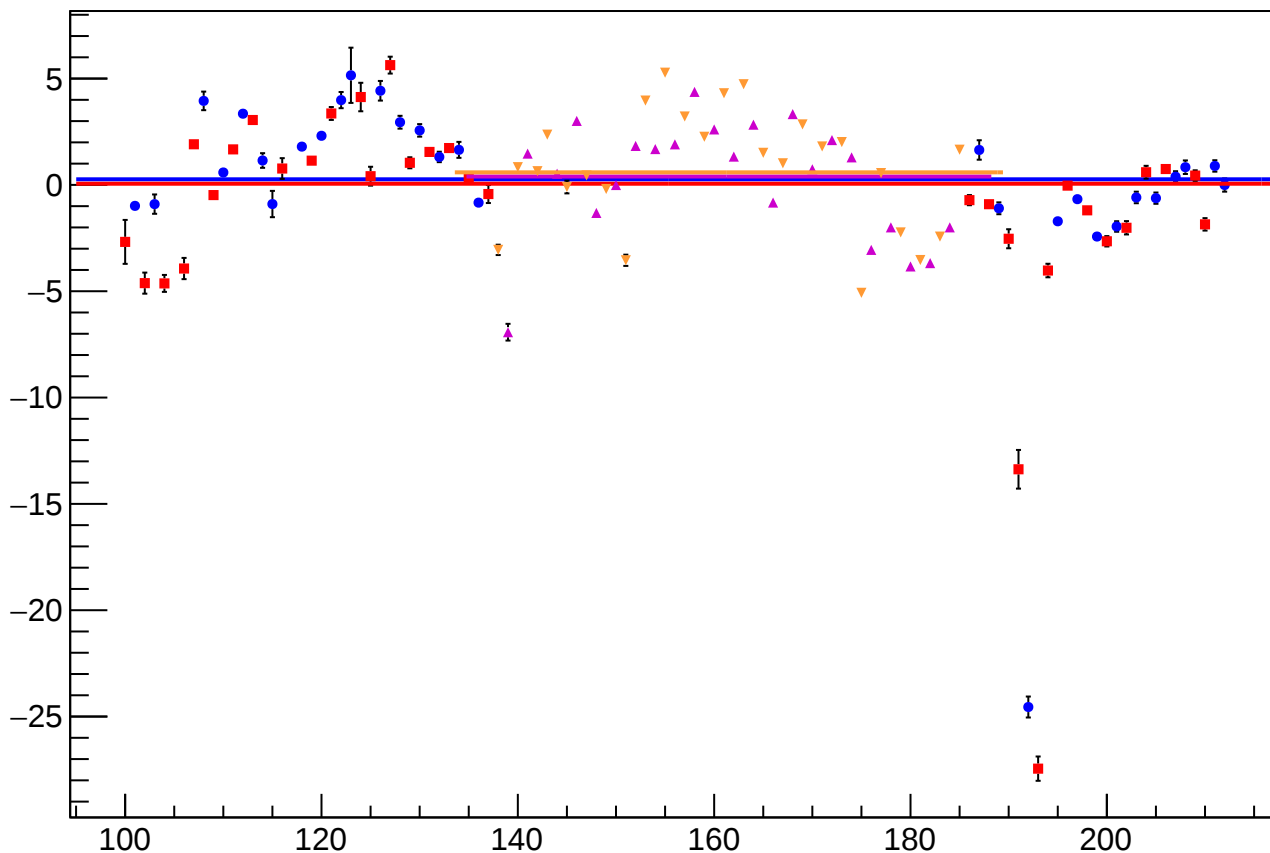
reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.896 $\pm$ 0.054 χ^2 /NDF: 25529.1/12
 Left Out: -18.566 $\pm$ 0.040 χ^2 /NDF: 86389.6/24
 Right Out: 5.390 $\pm$ 0.053 χ^2 /NDF: 25986.7/13
 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: 5.638 $\pm$ 0.038 χ^2 /NDF: 51561.0/26
 In: -9.283 $\pm$ 0.032 χ^2 /NDF: 191737.0/35
 Out: -9.775 $\pm$ 0.032 χ^2 /NDF: 243360.8/38
 All: -9.528 $\pm$ 0.022 χ^2 /NDF: 435217.6/74

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.263+/-0.048 χ^2/NDF : 3867.2/29

Left Out: 0.591+/-0.033 χ^2/NDF : 6796.5/24

Right Out: 0.055+/-0.046 χ^2/NDF : 4257.9/32

Left In: 0.394+/-0.032 χ^2/NDF : 6059.8/22

Left: 0.488+/-0.023 χ^2/NDF : 12874.6/47

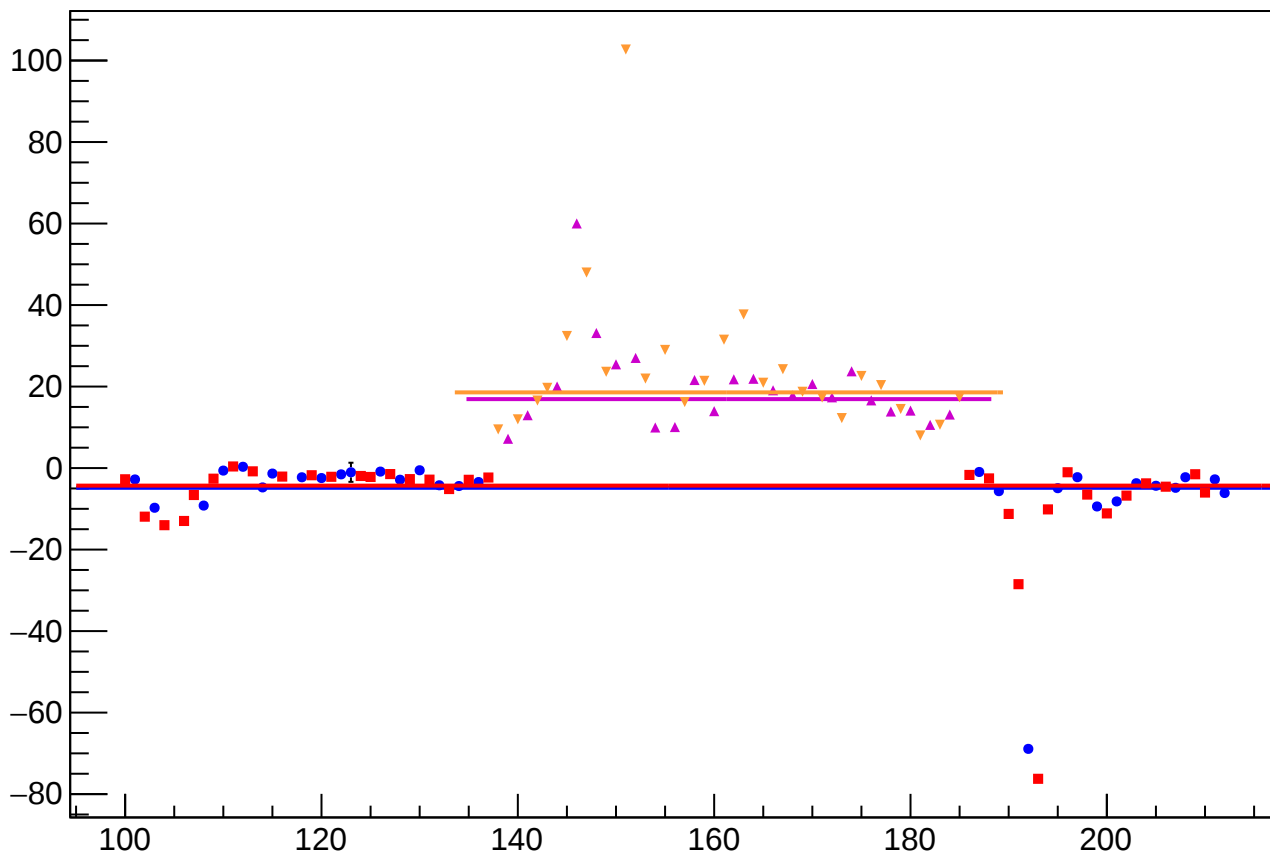
Right: 0.154+/-0.033 χ^2/NDF : 8134.9/62

In: 0.354+/-0.026 χ^2/NDF : 9932.1/52

Out: 0.406+/-0.027 χ^2/NDF : 11143.9/57

All: 0.380+/-0.019 χ^2/NDF : 21077.9/110

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.834 ± 0.046 $\chi^2/\text{NDF}: 26382.7/29$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -4.305 ± 0.043 $\chi^2/\text{NDF}: 27290.0/32$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

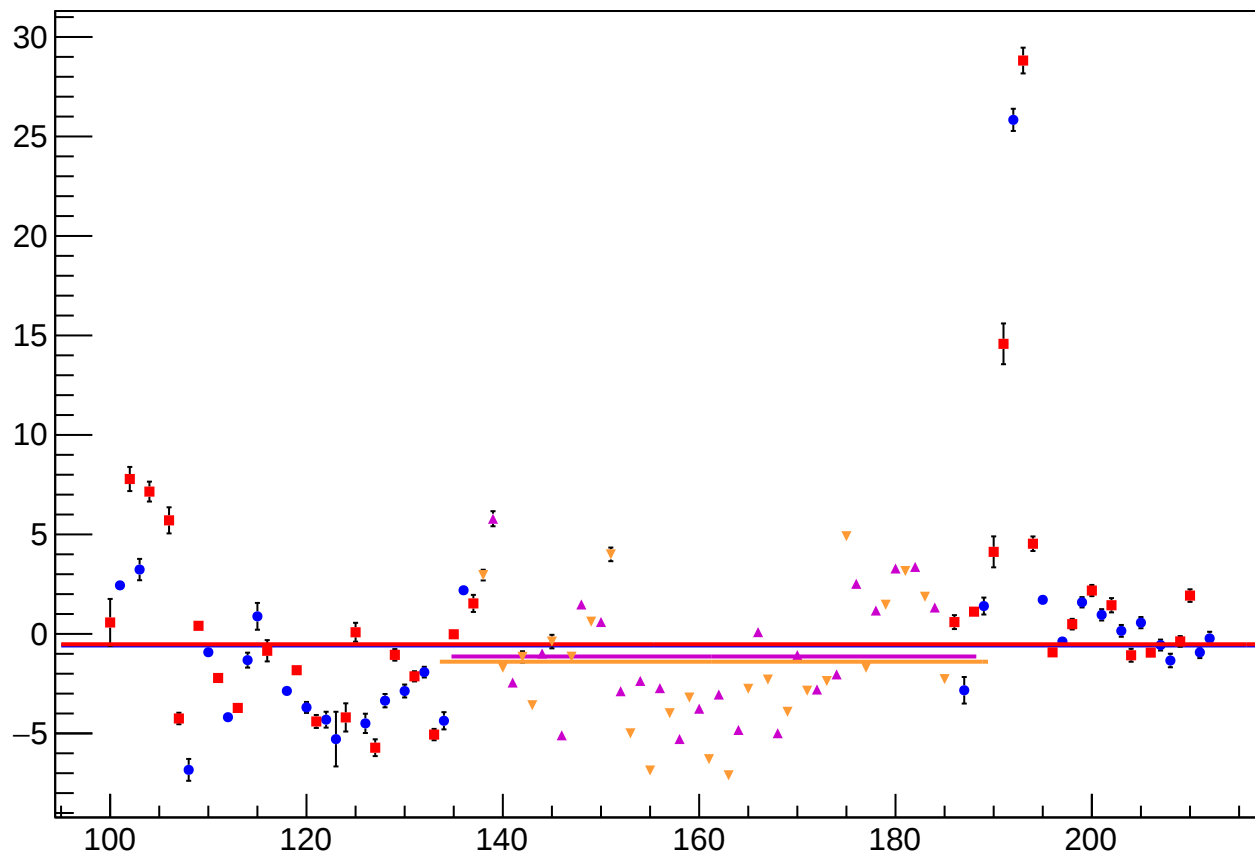
Right: -4.551 ± 0.031 $\chi^2/\text{NDF}: 53743.8/62$

In: 7.831 ± 0.030 $\chi^2/\text{NDF}: 197135.7/52$

Out: 7.838 ± 0.029 $\chi^2/\text{NDF}: 254833.3/57$

All: 7.834 ± 0.021 $\chi^2/\text{NDF}: 451969.1/110$

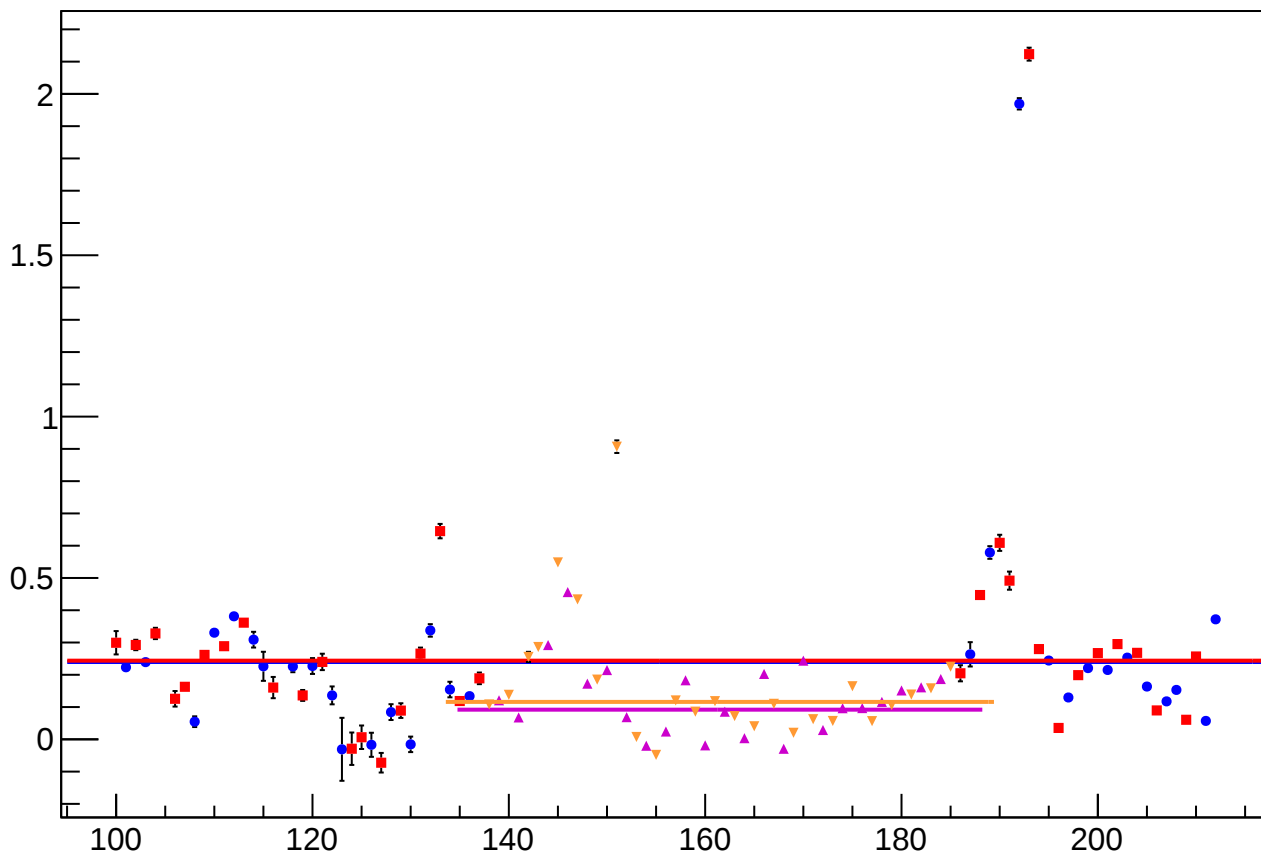
reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.581+/-0.055 χ^2/NDF : 3906.4/29
 Left Out: -1.396+/-0.037 χ^2/NDF : 7651.5/24
 Right Out: -0.520+/-0.053 χ^2/NDF : 4469.8/32
 Left In: -1.135+/-0.035 χ^2/NDF : 6597.7/22

Left: -1.259+/-0.025 χ^2/NDF : 14275.6/47
 Right: -0.549+/-0.038 χ^2/NDF : 8376.8/62
 In: -0.975+/-0.030 χ^2/NDF : 10575.4/52
 Out: -1.111+/-0.030 χ^2/NDF : 12304.7/57
 All: -1.042+/-0.021 χ^2/NDF : 22890.4/110

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.240 ± 0.002 $\chi^2/\text{NDF}: 11297.7/29$

Left Out: 0.116 ± 0.002 $\chi^2/\text{NDF}: 4463.0/24$

Right Out: 0.244 ± 0.002 $\chi^2/\text{NDF}: 11590.8/32$

Left In: 0.092 ± 0.002 $\chi^2/\text{NDF}: 3631.4/22$

Left: 0.103 ± 0.001 $\chi^2/\text{NDF}: 8207.3/47$

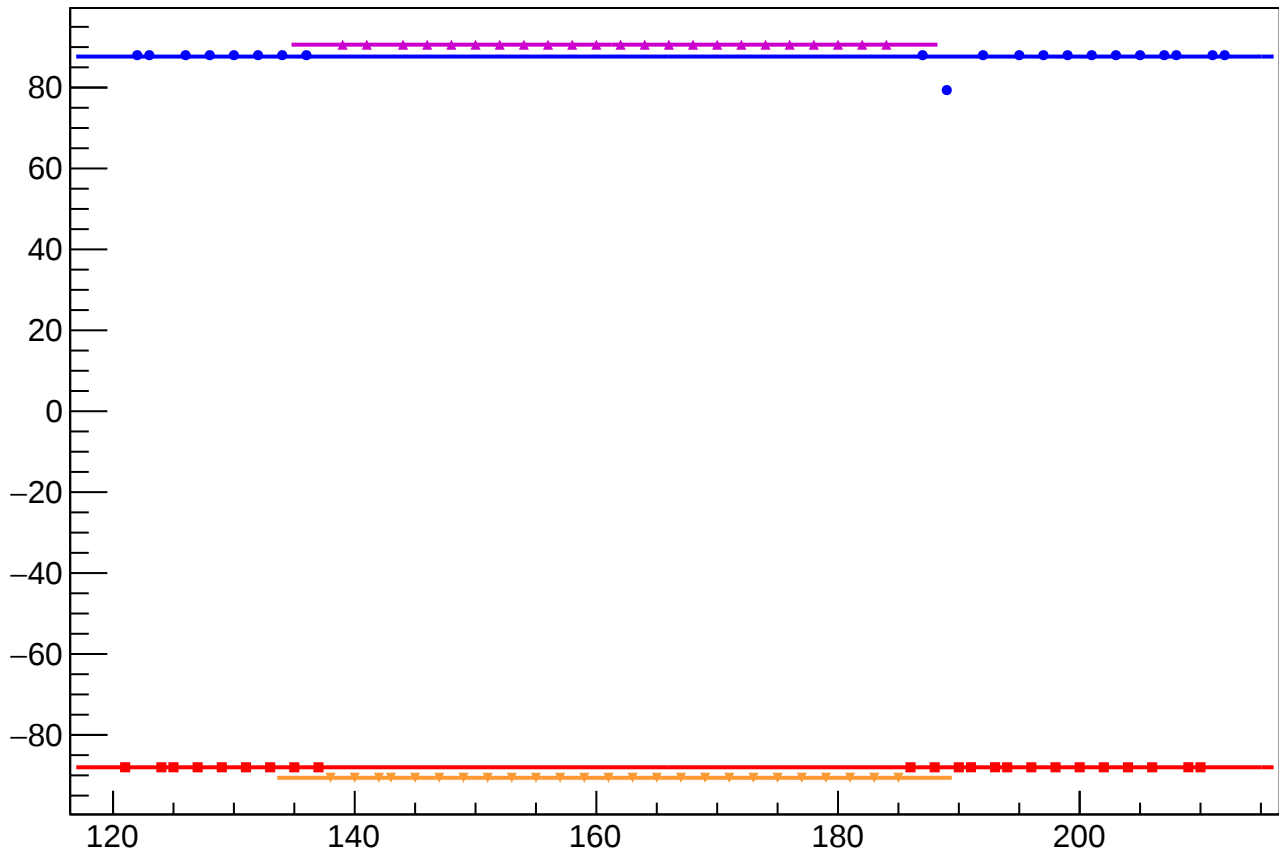
Right: 0.242 ± 0.002 $\chi^2/\text{NDF}: 22890.0/62$

In: 0.134 ± 0.001 $\chi^2/\text{NDF}: 17536.3/52$

Out: 0.157 ± 0.001 $\chi^2/\text{NDF}: 17980.4/57$

All: 0.145 ± 0.001 $\chi^2/\text{NDF}: 35660.7/110$

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.660+/-0.000

χ^2/NDF : 3646407389000388314517020444983296.0/20

Left Out: -90.599+/-0.000

χ^2/NDF : 6053403.0/24

Right Out: -88.001+/-0.000

χ^2/NDF : 985104.3/22

Left In: 90.599+/-0.000

χ^2/NDF : 5932436.0/22

Left: -2.410+/-0.000 χ^2/NDF : 30521213250005045

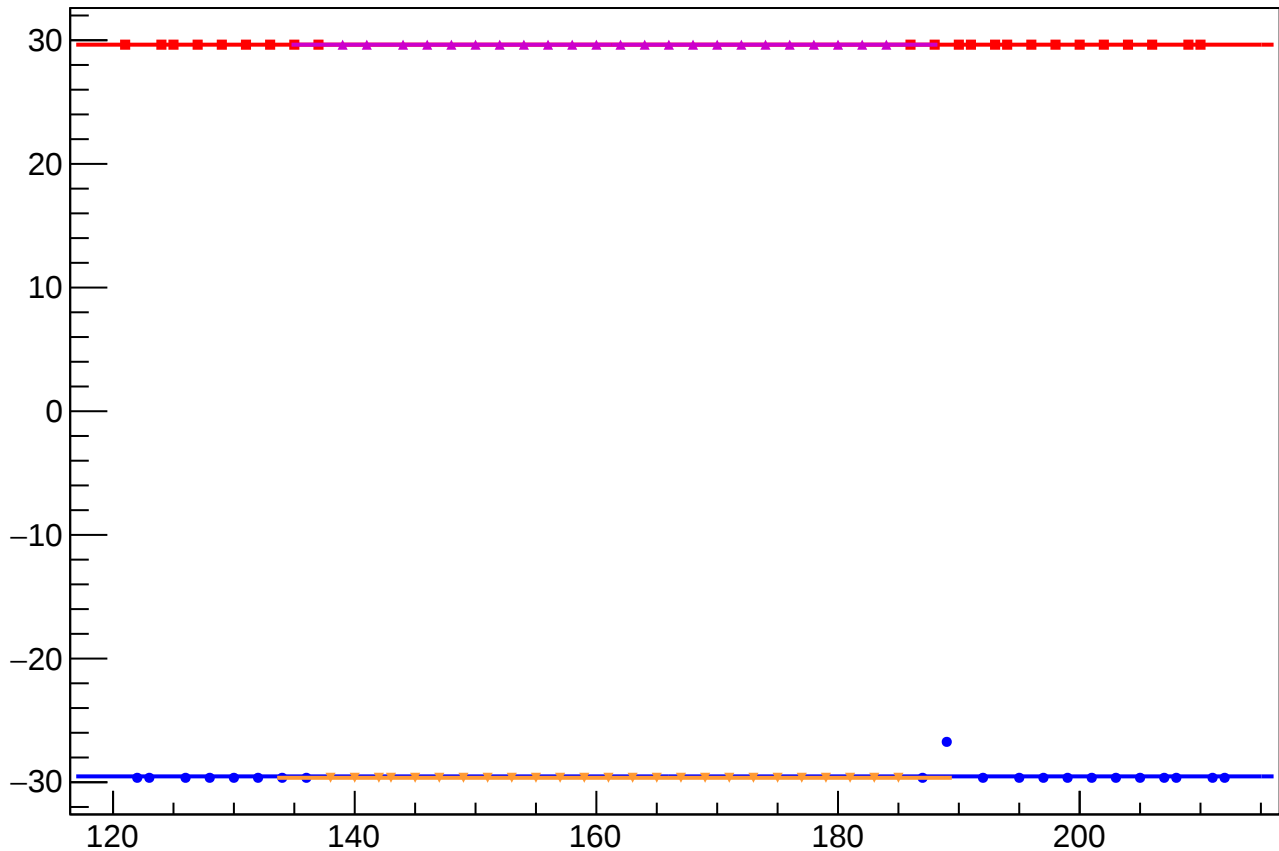
Right: -0.136+/-0.000 χ^2/NDF : 1994486686393559

In: 89.375+/-0.000 χ^2/NDF : 101621216564065217

Out: -89.551+/-0.000 χ^2/NDF : 5204168294038147

All: -1.478+/-0.000 χ^2/NDF : 5047396977477

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.526+/-0.000

χ^2/NDF : 413685126520820016320911572467712.0/20

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

Right Out: 29.641+/-0.000

χ^2/NDF : 1431385.0/22

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

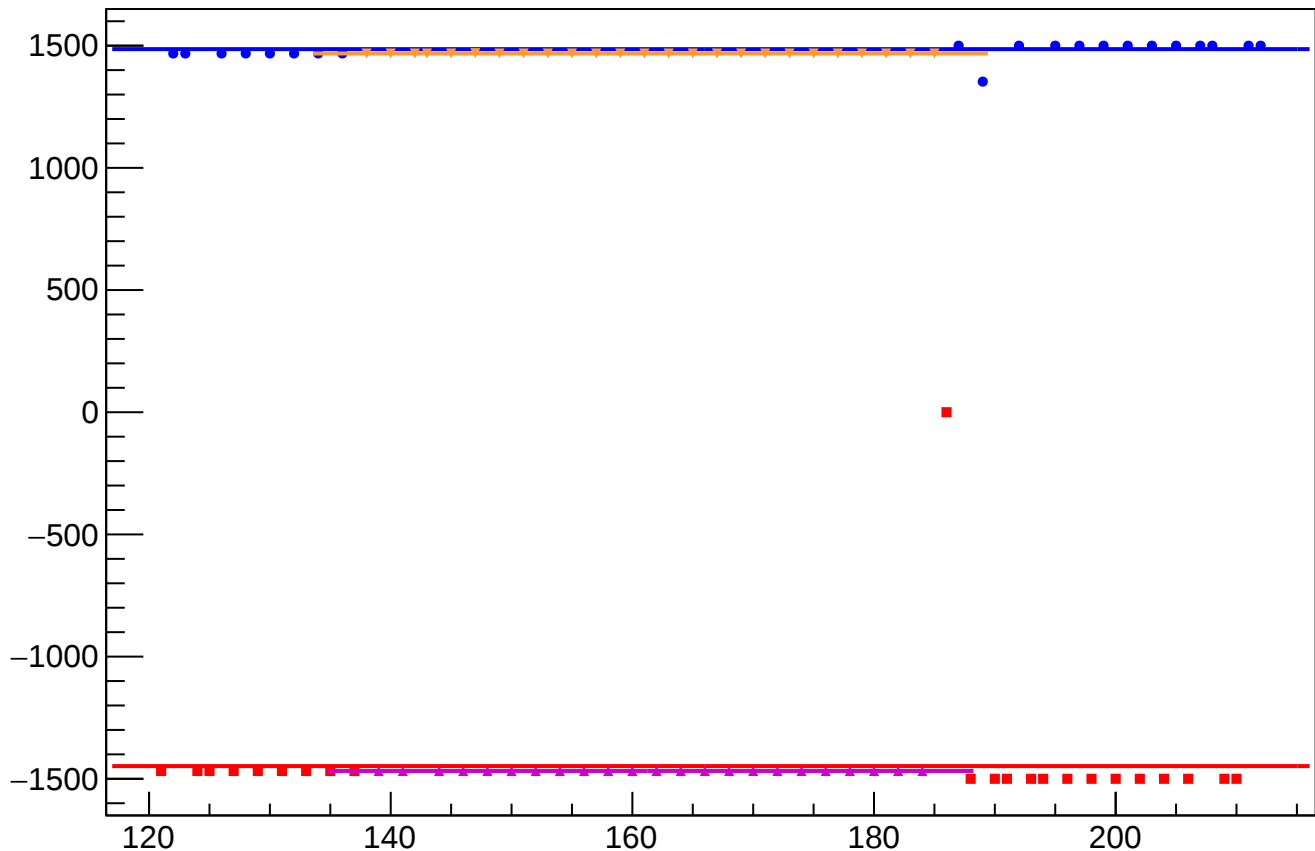
Right: 0.046+/-0.000 χ^2/NDF : 22627462847233377

In: 4.994+/-0.000 χ^2/NDF : 2641309237203915593

Out: -5.721+/-0.000 χ^2/NDF : 27083921591333500

All: -0.447+/-0.000 χ^2/NDF : 5530658071349

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1485.805+/-0.000

χ^2/NDF : 1189988754553235024551673705105719296.0/20

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1448.027+/-0.000

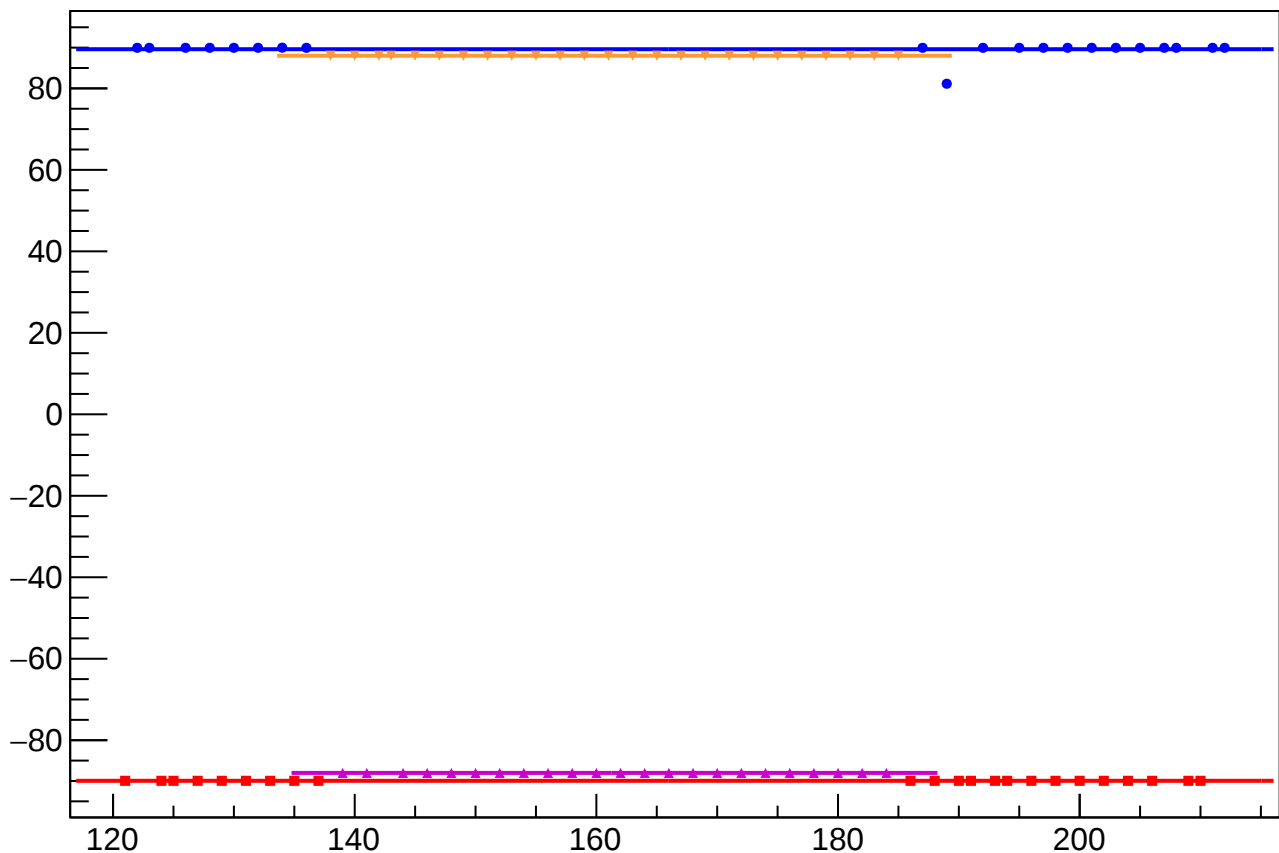
χ^2/NDF : 82333973523480609799864837496046092288.0/22

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

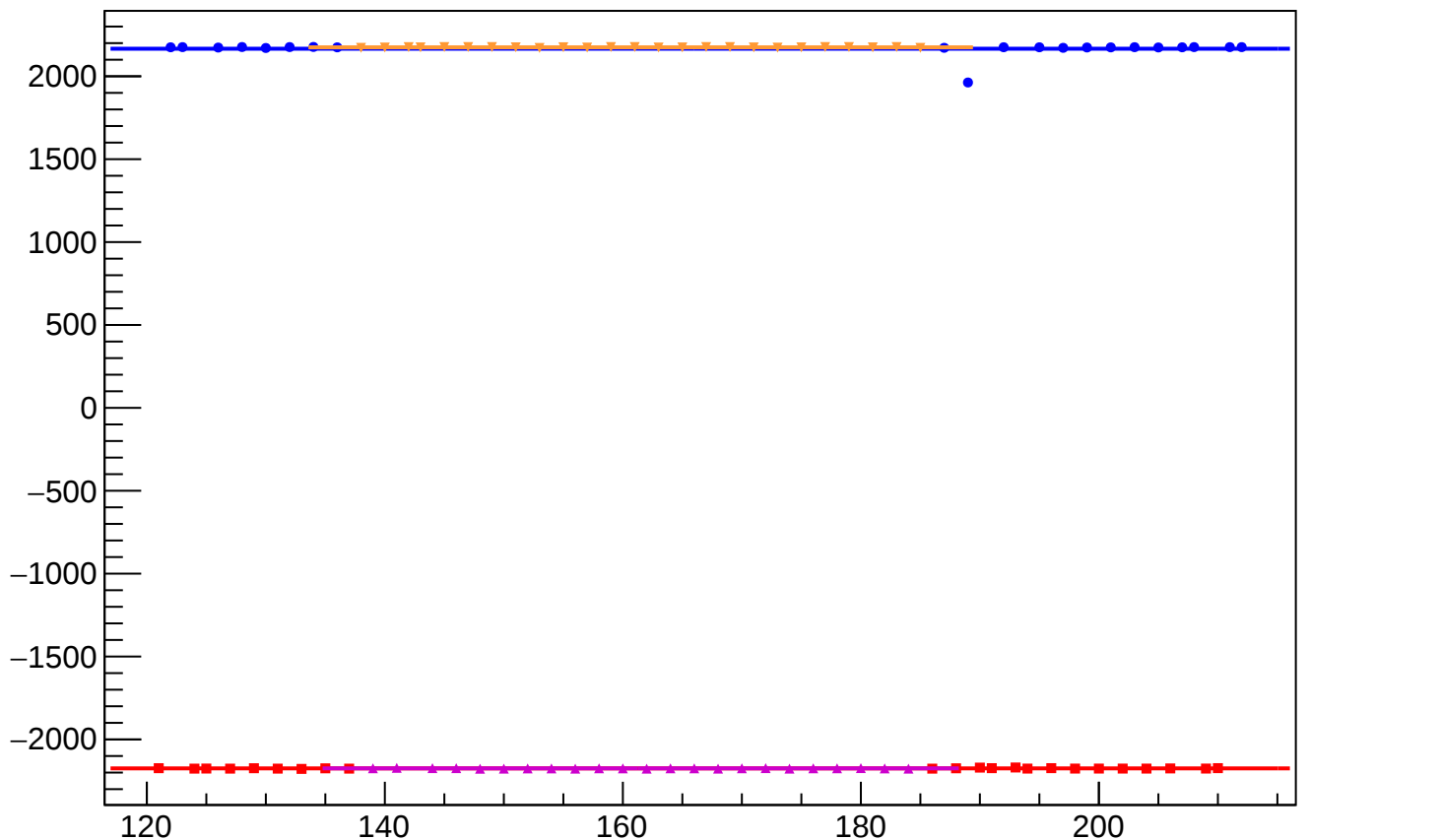
All: 31.039+/-0.000 χ^2/NDF : 1366001801830

Phi_FG_mean vs Slug, Sign Corrected



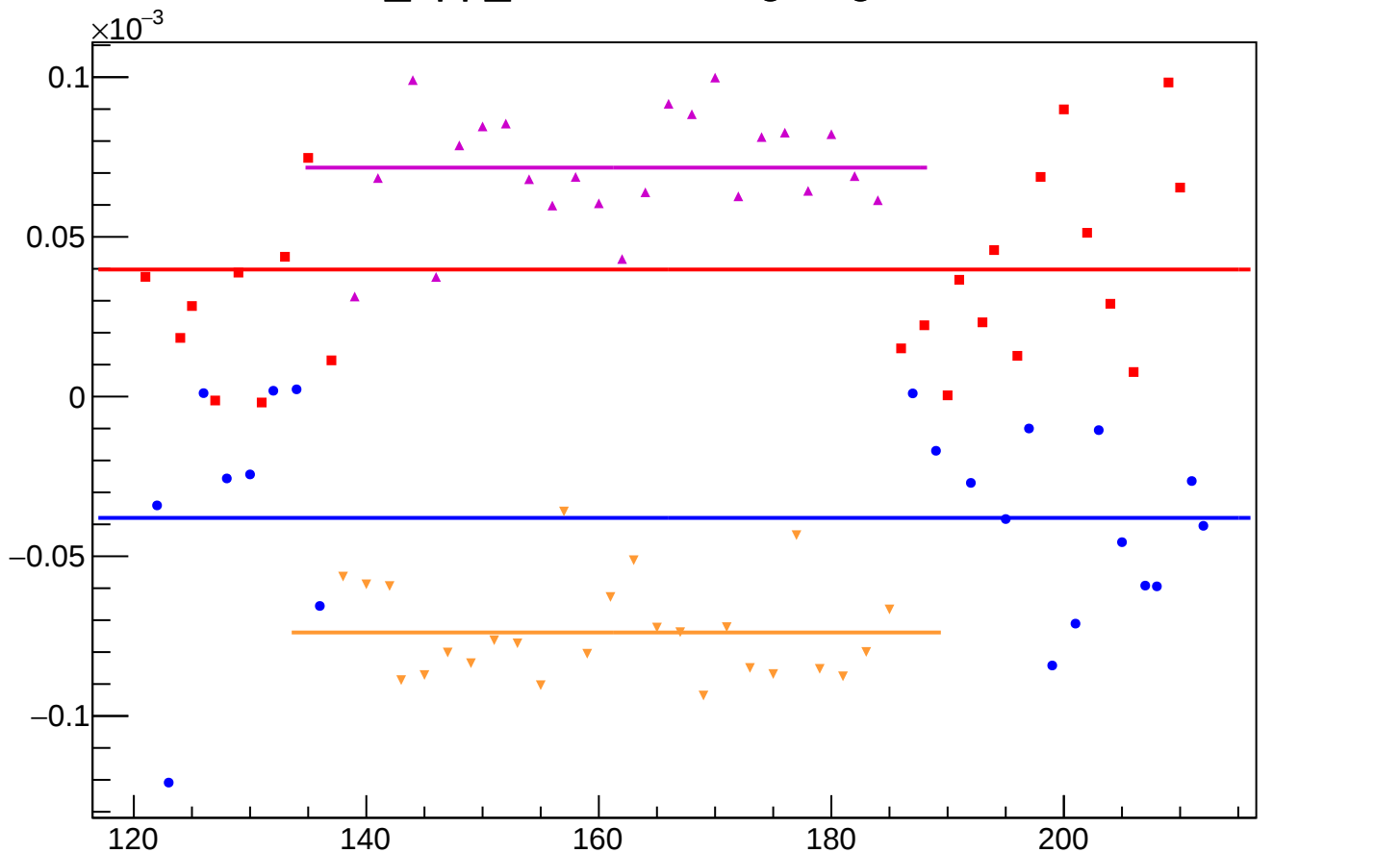
Right In: 89.612+/-0.000	χ^2/NDF : 3811032122239518195235529414410240.0/20	Left: 2.342+/-0.000	χ^2/NDF : 288085769312401978
Left Out: 88.021+/-0.000	χ^2/NDF : 5326388.8/24	Right: -0.139+/-0.000	χ^2/NDF : 2084268036015932
Right Out: -89.959+/-0.000	χ^2/NDF : 3738064.7/22	In: -14.026+/-0.000	χ^2/NDF : 23807317218706775
Left In: -88.021+/-0.000	χ^2/NDF : 6084099.2/22	Out: 16.206+/-0.000	χ^2/NDF : 24412764303775099
		All: 1.325+/-0.000	χ^2/NDF : 49660644714930

HALLA_p_mean vs Slug, Sign Corrected



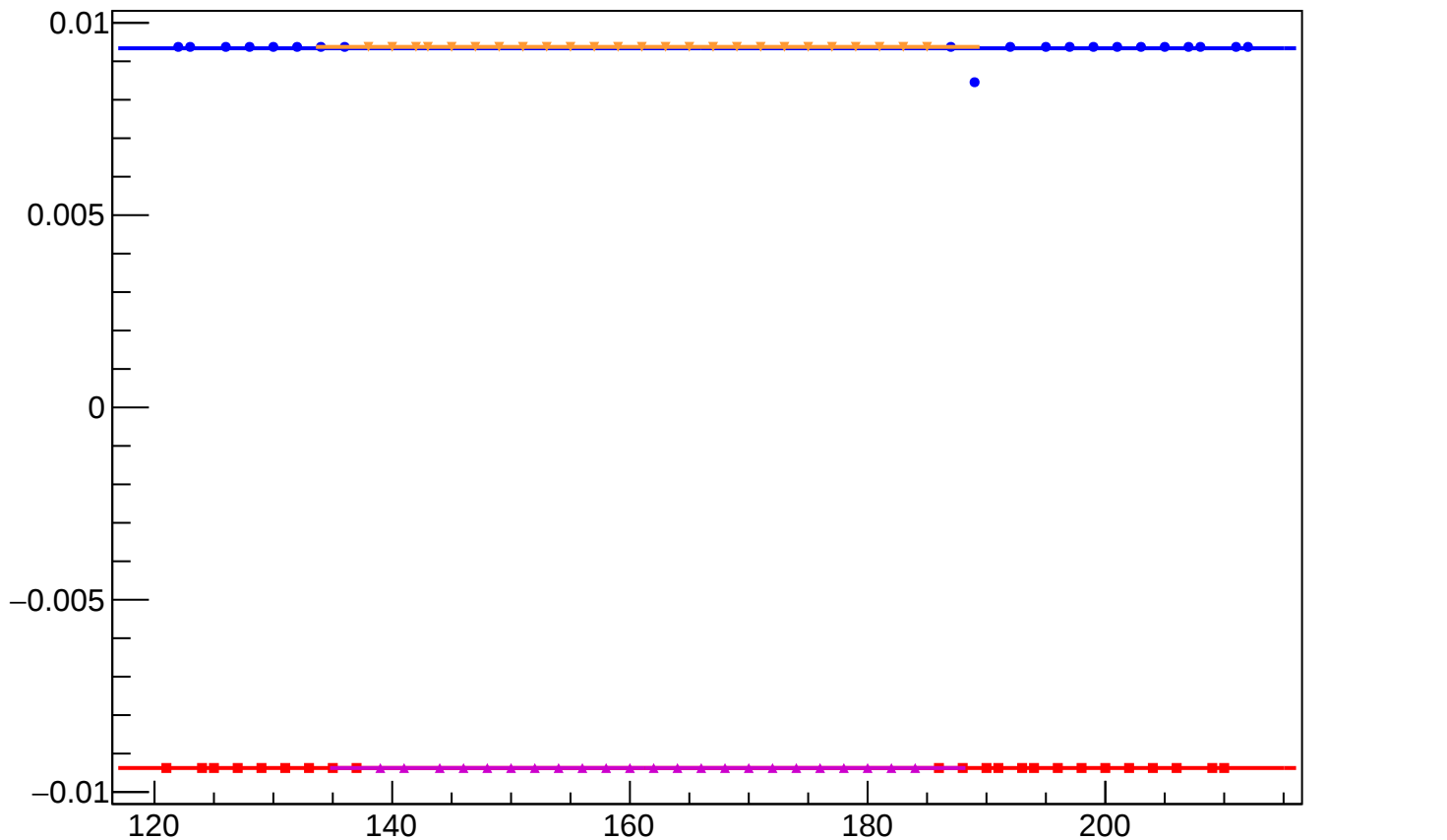
Right In: 2166.236 $\pm$ 0.000 χ^2 /NDF: 2204062754163880645705584828003385344.0/20
 Left Out: 2174.622 $\pm$ 0.000 χ^2 /NDF: 5110578135476093110874911595823104.0/24
 Right Out: -2174.693 $\pm$ 0.000 χ^2 /NDF: 4832102084460551502582441840738304.0/22
 Left In: -2174.539 $\pm$ 0.000 χ^2 /NDF: 3400742562425168967494665391570944.0/22
 All: 32.775 $\pm$ 0.000 χ^2 /NDF: 2976907069510

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000	$\chi^2/\text{NDF}: 811985771508963850846208.0/20$	Left: -0.000 ± 0.000	$\chi^2/\text{NDF}: 20702696564433151$
Left Out: -0.000 ± 0.000	$\chi^2/\text{NDF}: 450400934180541069000704.0/24$	Right: 0.000 ± 0.000	$\chi^2/\text{NDF}: 58354730333065219$
Right Out: 0.000 ± 0.000	$\chi^2/\text{NDF}: 1115927539054143097274368.0/22$	In: 0.000 ± 0.000	$\chi^2/\text{NDF}: 1044593737018515560$
Left In: 0.000 ± 0.000	$\chi^2/\text{NDF}: 562166279020739416817664.0/22$	Out: -0.000 ± 0.000	$\chi^2/\text{NDF}: 11518556593645146$
	All: -0.000 ± 0.000		$\chi^2/\text{NDF}: 2656148776600$

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41384285007505429255684096.0/20

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2263608990108369

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.002+/-0.000

χ^2/NDF : 264231627529645582

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/22

Out: 0.002+/-0.000

χ^2/NDF : 270942477357900679

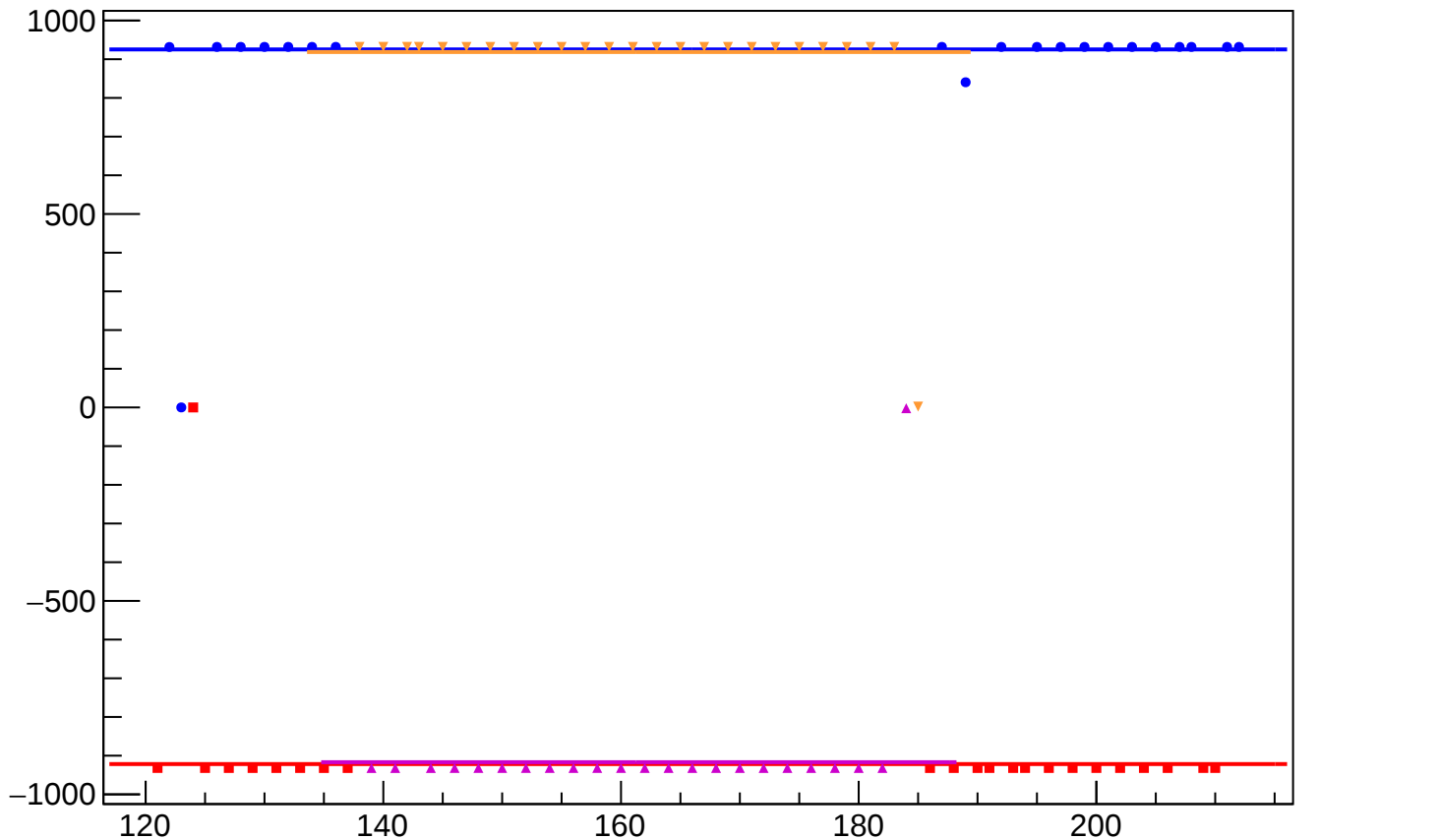
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: 0.000+/-0.000

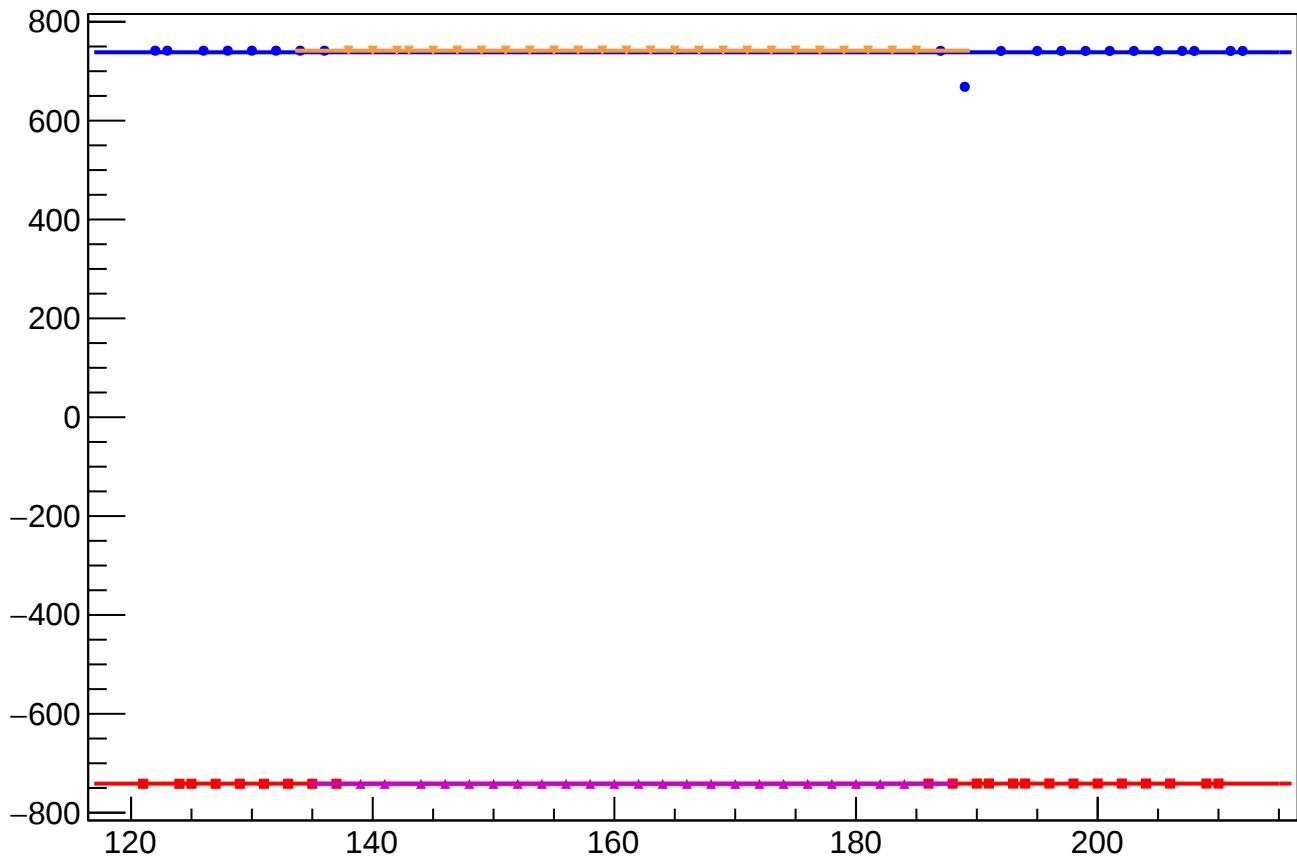
χ^2/NDF : 55327667162882

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



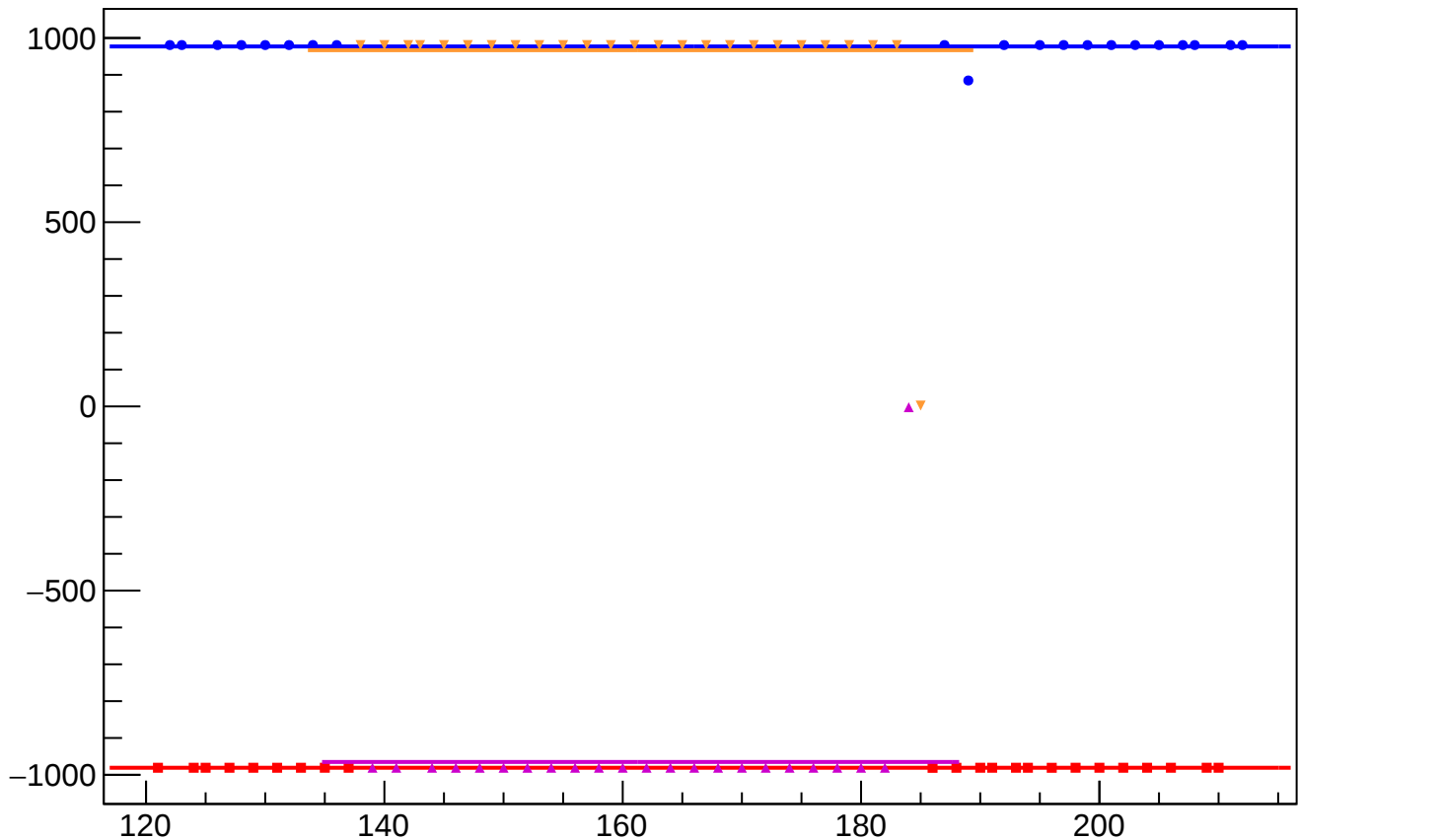
Right In: 925.302+/-0.000 χ^2/NDF : 3843383083951428489807843014331072512.0/20
 Left Out: 918.645+/-0.000 χ^2/NDF : 23003498704056084939752432521336324096.0/24
 Right Out: -921.702+/-0.000 χ^2/NDF : 12022932745873685744751418781858791424.0/22
 Left In: -916.890+/-0.000 χ^2/NDF : 2466789491747623125028694438888133632.0/22
 All: 15.811+/-0.000 χ^2/NDF : 5400953312909

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 738.298+/-0.000 χ^2/NDF : 258719711850411744730847640022941696.0/20
 Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24
 Right Out: -741.167+/-0.000 χ^2/NDF : 57514526033067242425574829850624.0/22
 Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22
 All: 11.171+/-0.000 χ^2/NDF : 3459955566589

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.018+/-0.000

χ^2/NDF : 453087079706721168430659337715712000.0/20

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.819+/-0.000

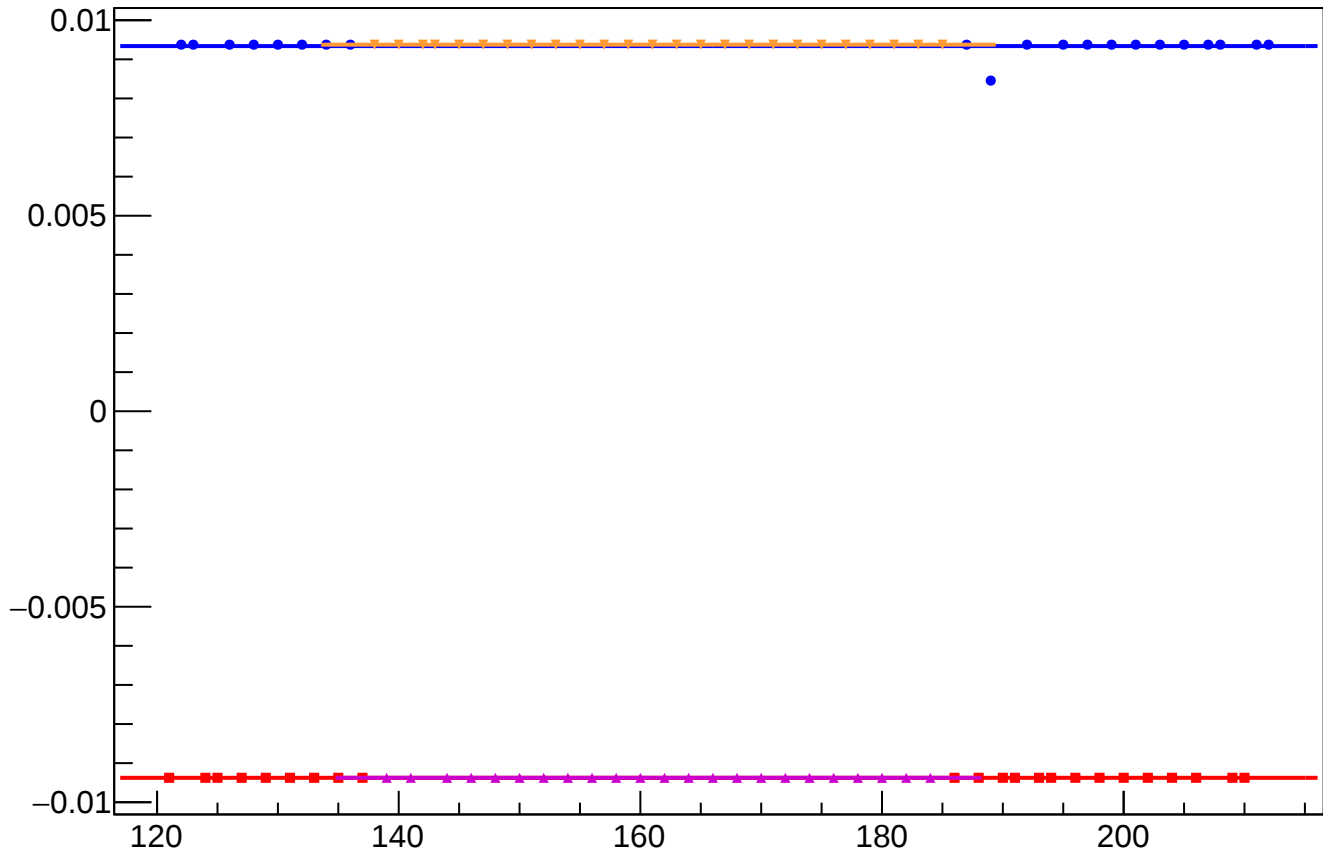
χ^2/NDF : 3430426565835985262295061102592.0/22

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 15.083+/-0.000 χ^2/NDF : 6001585255197

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41384285007505429255684096.0/20

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/22

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 : 2263608990108369

In: -0.002+/-0.000

χ^2/NDF : 264231627529645582

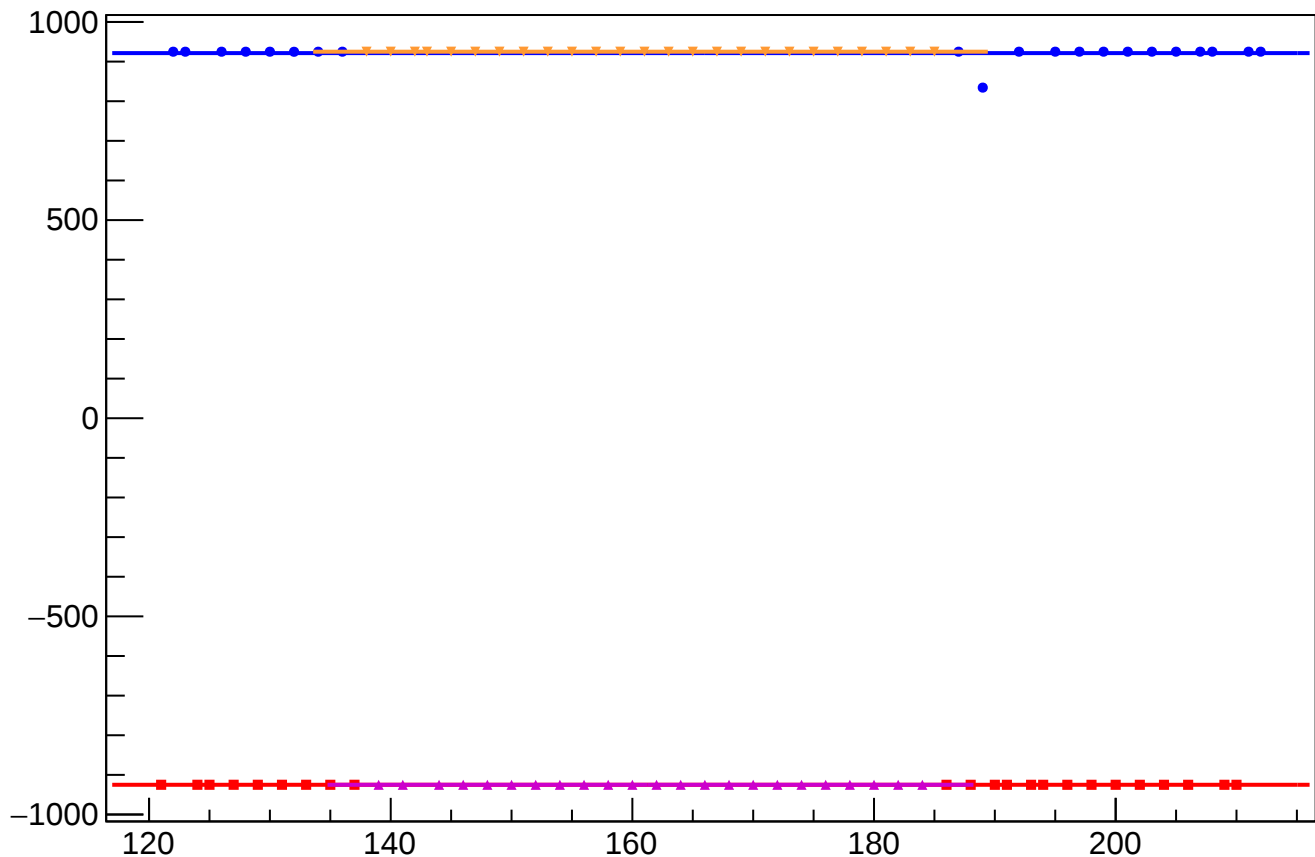
Out: 0.002+/-0.000

χ^2/NDF : 270942477357900679

All: 0.000+/-0.000

χ^2/NDF : 55327667162882

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 921.418+/-0.000

χ^2/NDF : 402583329260500179653343148194660352.0/20

Left Out: 924.983+/-0.000

χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -924.998+/-0.000

χ^2/NDF : 886728503900539774525983686656.0/22

Left In: -924.983+/-0.000

χ^2/NDF : 888539224321534960792212865024.0/22

Left: 24.610+/-0.000 χ^2/NDF : 31814082693920915

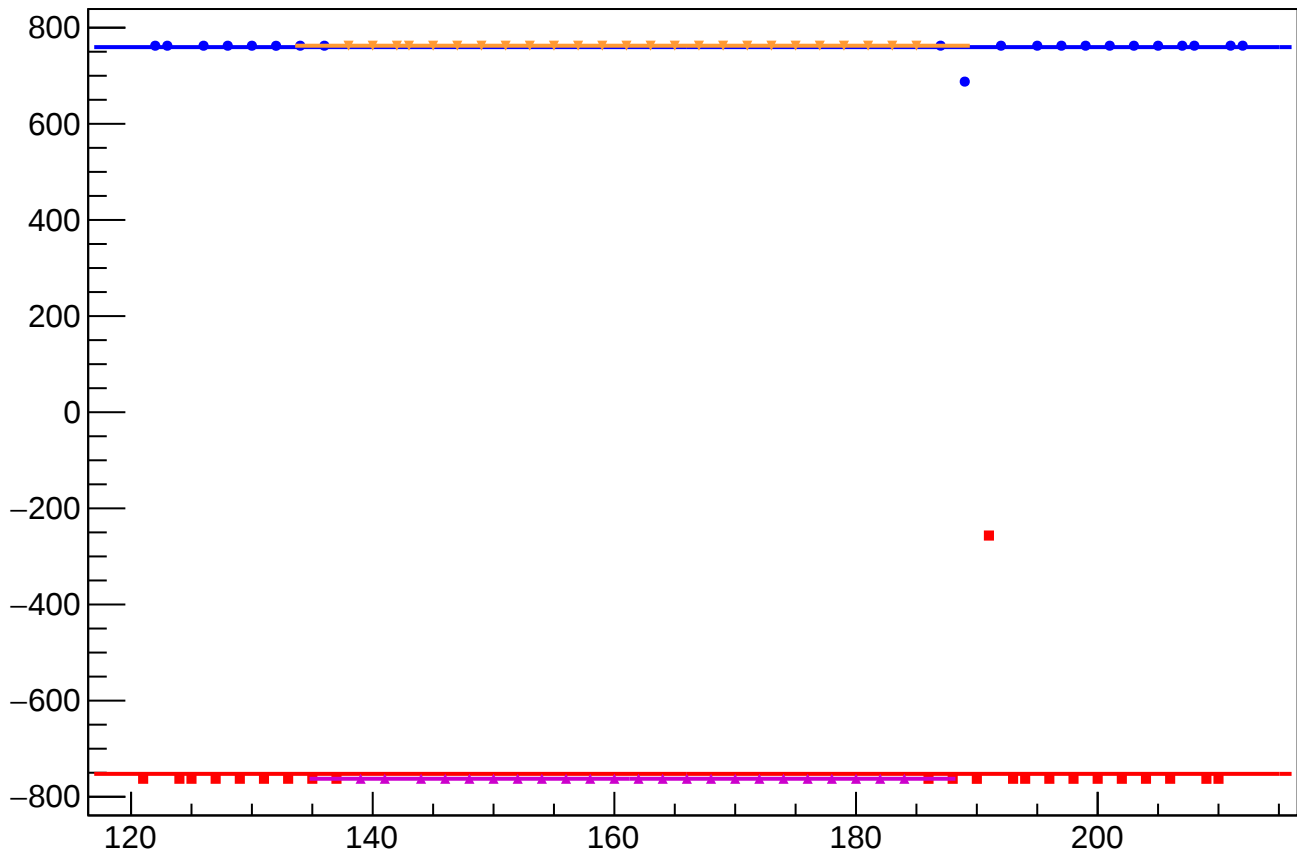
Right: -1.433+/-0.000 χ^2/NDF : 2203631655998107

In: -155.848+/-0.000 χ^2/NDF : 2572261379845190

Out: 178.519+/-0.000 χ^2/NDF : 2637601018223897

All: 13.934+/-0.000 χ^2/NDF : 5386074463043

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 759.575+/-0.000

χ^2/NDF : 273433017952428467723136544333103104.0/20

Left Out: 762.518+/-0.000

χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -752.351+/-0.000

χ^2/NDF : 6522504740318365482614808908125962240.0/22

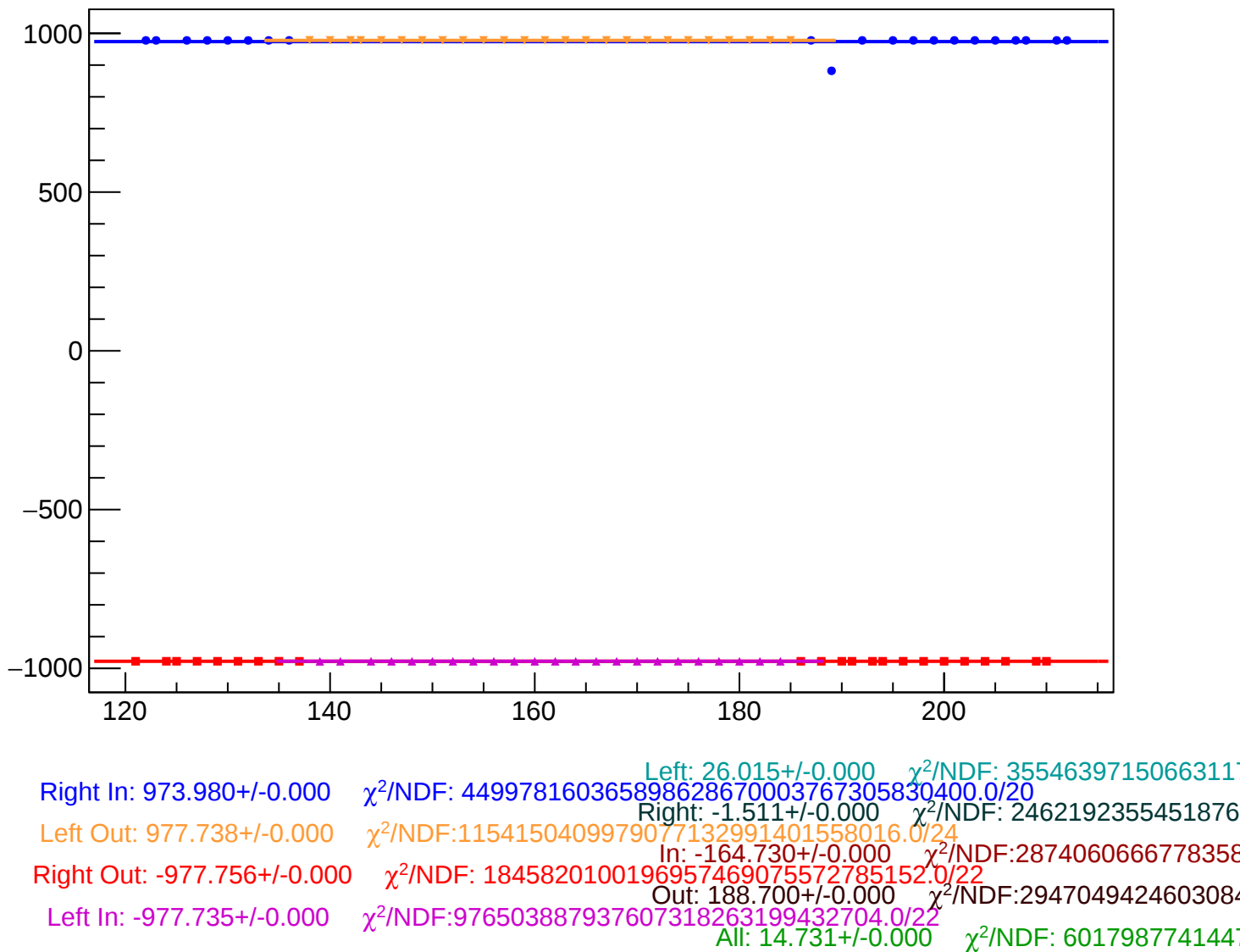
Left In: -762.519+/-0.000

χ^2/NDF : 629058355419214408155297480704.0/22

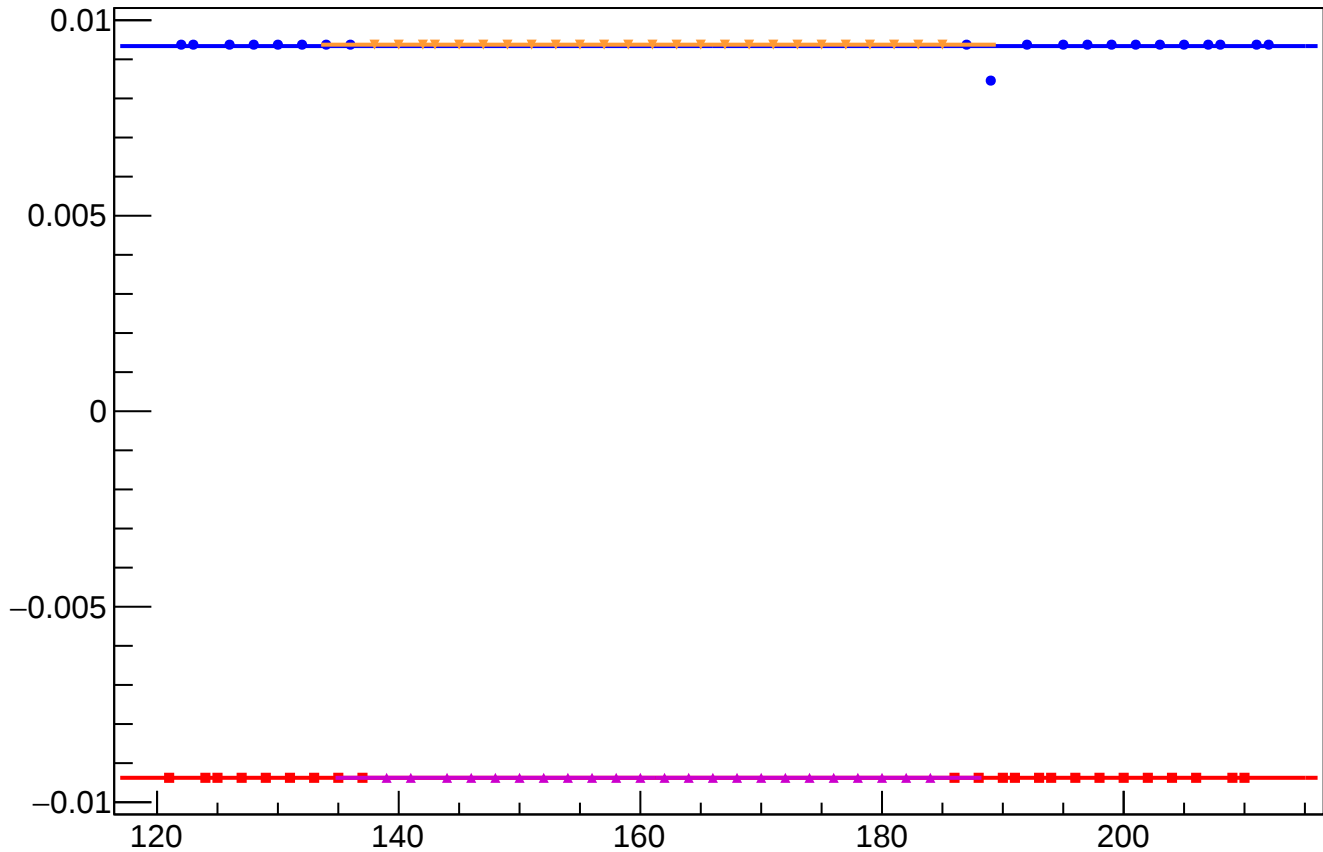
All: 13.571+/-0.000

χ^2/NDF : 3646466702169

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000

χ^2 /NDF: 41384285007505429255684096.0/20

Left Out: 0.009 $\pm$ 0.000

χ^2 /NDF: 0.1/24

Right Out: -0.009 $\pm$ 0.000

χ^2 /NDF: 0.1/22

Left In: -0.009 $\pm$ 0.000

χ^2 /NDF: 0.1/22

Left: 0.000 $\pm$ 0.000

χ^2 /NDF: 326809514411447718

Right: -0.000 $\pm$ 0.000

χ^2 /NDF: 2263608990108369

In: -0.002 $\pm$ 0.000

χ^2 /NDF: 264231627529645582

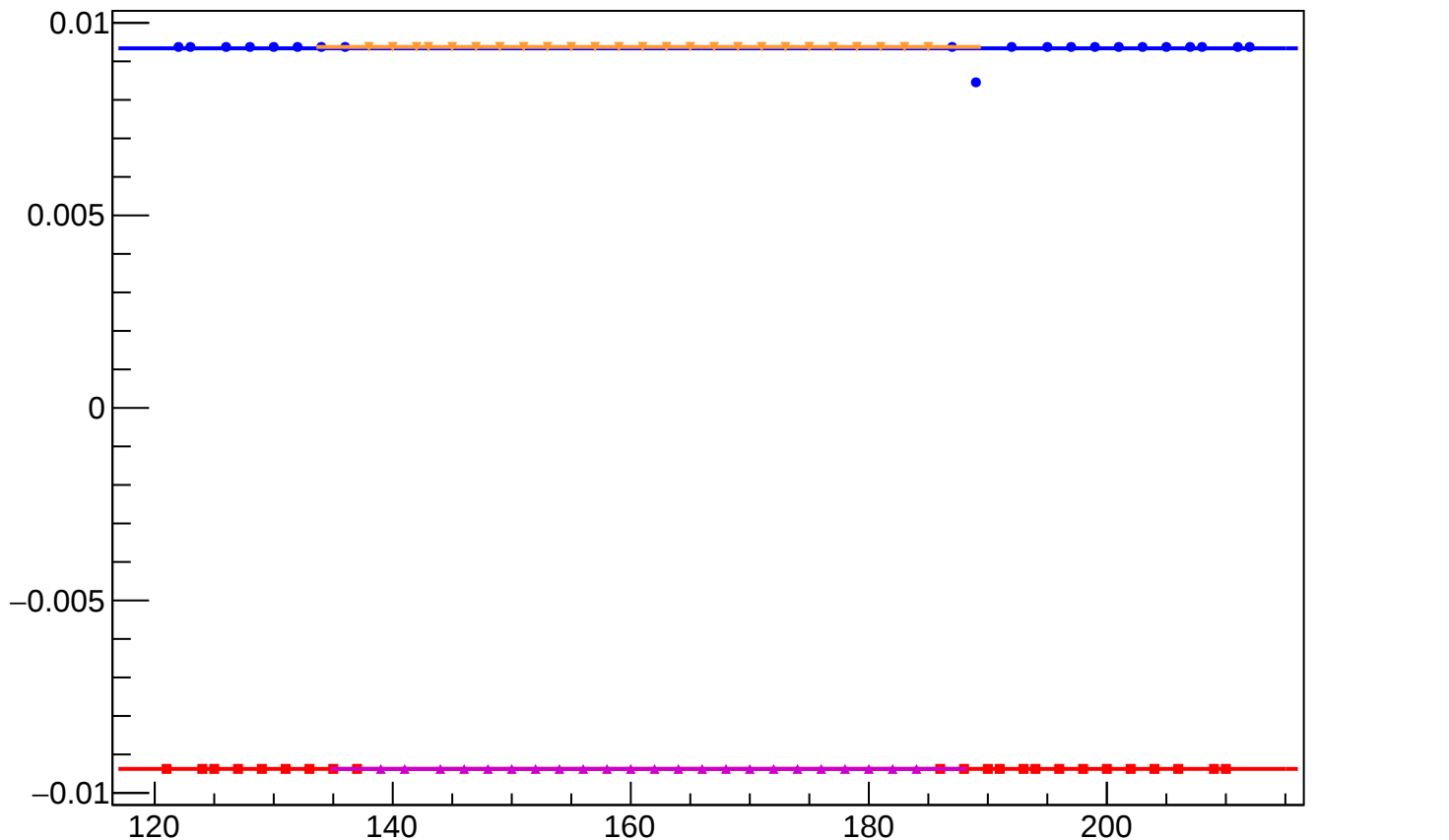
Out: 0.002 $\pm$ 0.000

χ^2 /NDF: 270942477357900679

All: 0.000 $\pm$ 0.000

χ^2 /NDF: 55327667162882

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41384285007505429255684096.0/20

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/22

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 : 2263608990108369

In: -0.002+/-0.000

χ^2/NDF : 264231627529645582

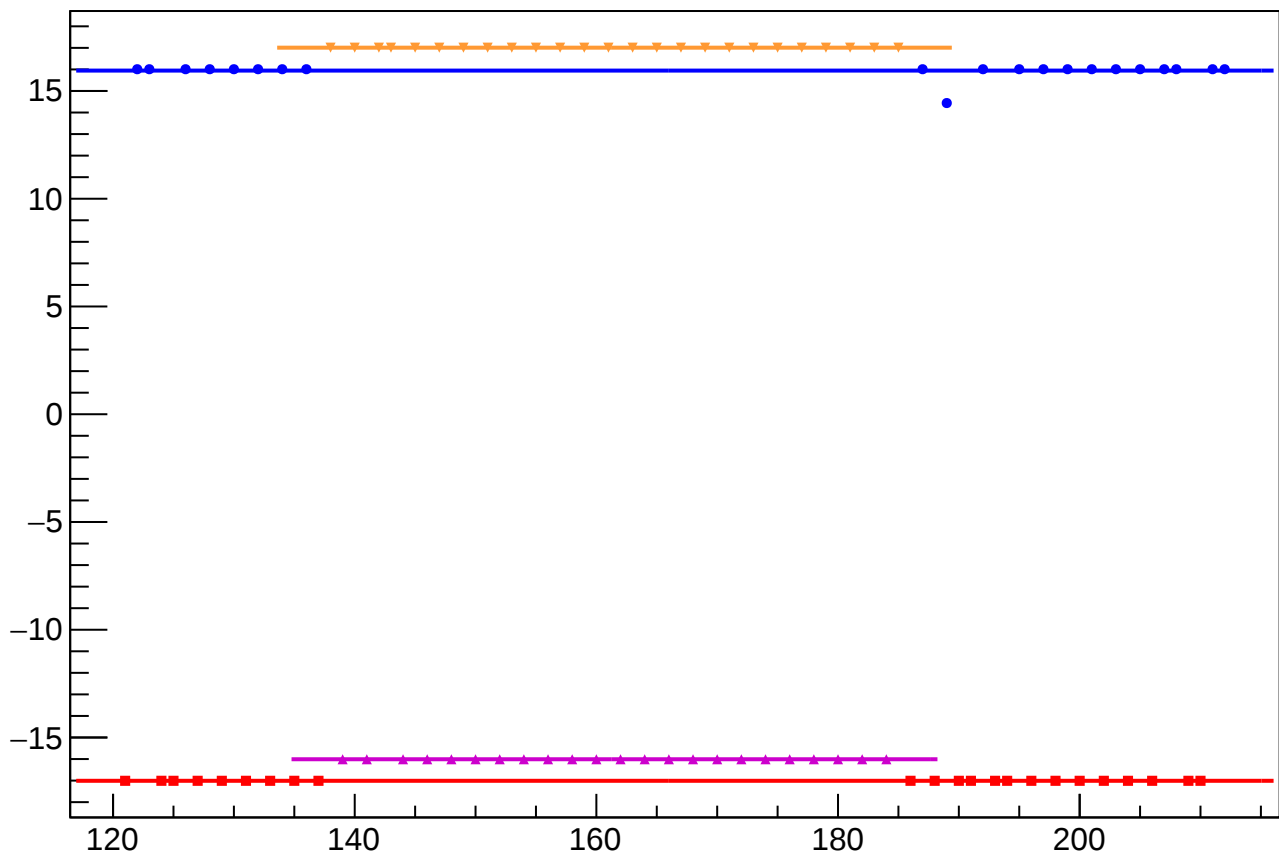
Out: 0.002+/-0.000

χ^2/NDF : 270942477357900679

All: 0.000+/-0.000

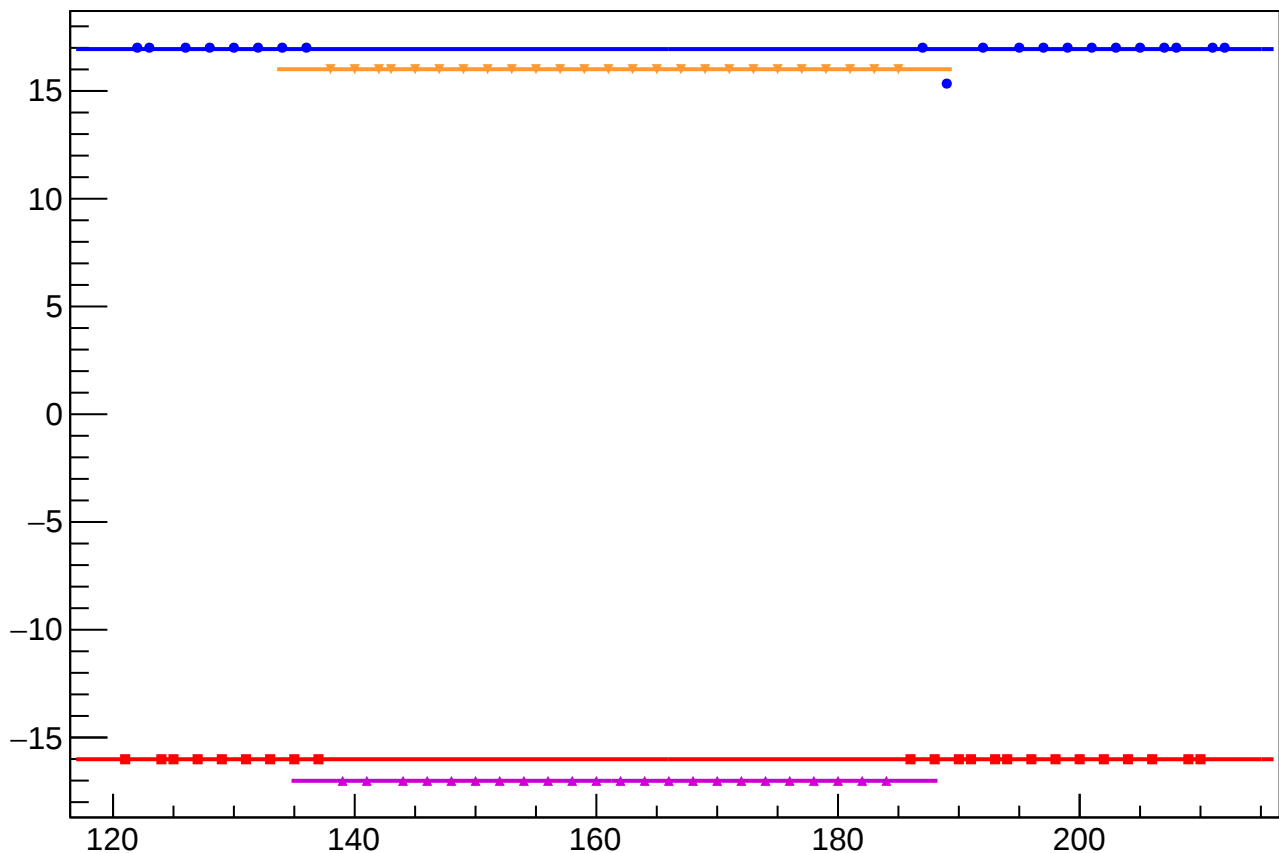
χ^2/NDF : 55327667162882

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



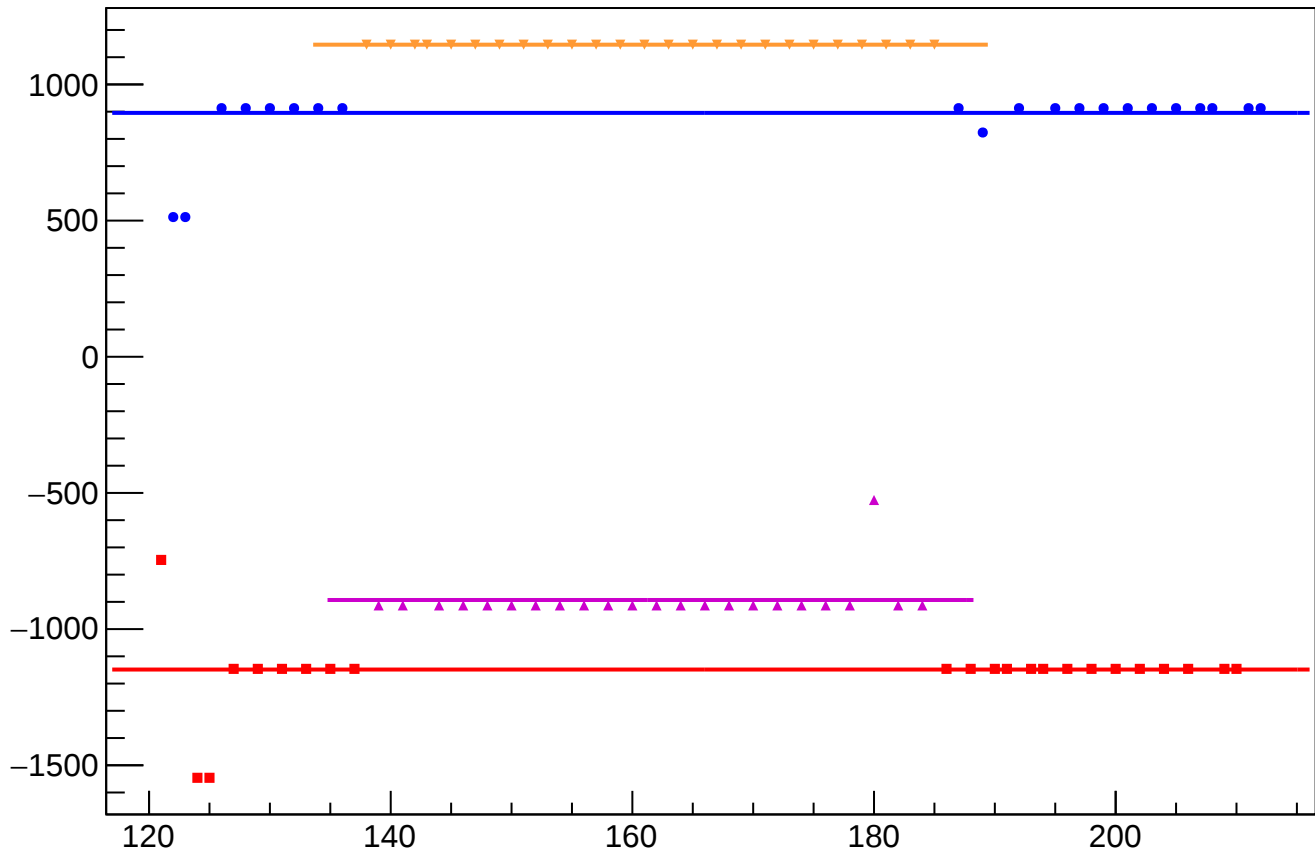
Right In: 15.946 $\pm$ 0.000 χ^2 /NDF: 120579679716264652590370380578816.0/20
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 16739364759151873221459968.0/22
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: 0.291 $\pm$ 0.000 χ^2 /NDF: 16358403061453

IGL1I00OD16_16_mean vs Slug, Sign Corrected



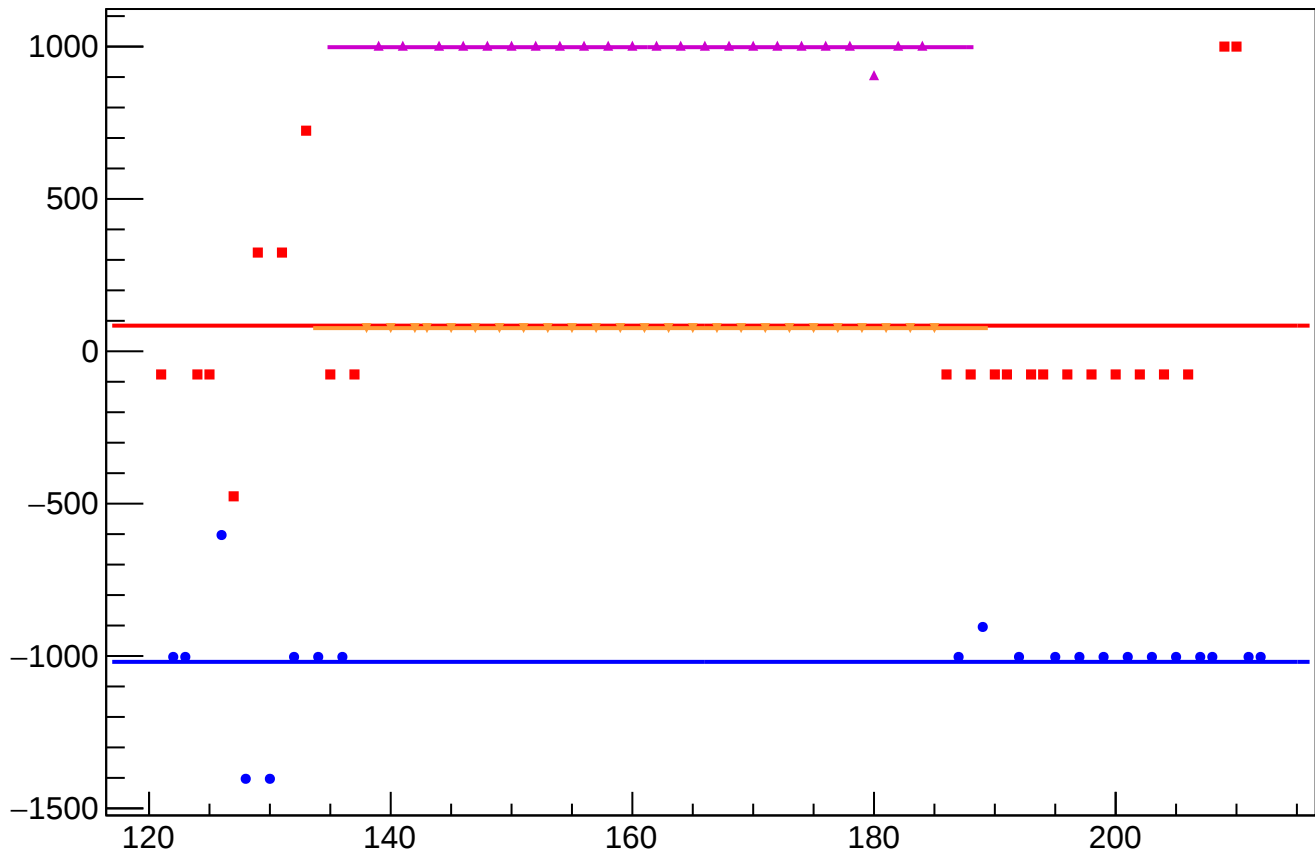
Right In: 16.944+/-0.000	χ^2/NDF : 136228603722375205749811620872192.0/20	Left: 0.042+/-0.000	χ^2/NDF : 994312337700629058
Left Out: 16.009+/-0.000	χ^2/NDF : 89740.8/24	Right: 0.473+/-0.000	χ^2/NDF : 70189797250719942
Right Out: -16.009+/-0.000	χ^2/NDF : 248257.7/22	In: -2.658+/-0.000	χ^2/NDF : 860664833584361318
Left In: -17.009+/-0.000	χ^2/NDF : 115033472633445654986752.0/22	Out: 2.992+/-0.000	χ^2/NDF : 786066078998289991
		All: 0.221+/-0.000	χ^2/NDF : 16964914909487

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Left: 153.574+/-0.000 χ^2/NDF : 3878499194076111
 Right In: 895.542+/-0.000 χ^2/NDF : 7214856072287733164750300960559988736.0/20
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right: -126.077+/-0.000 χ^2/NDF : 27210326118719
 In: -148.034+/-0.000 χ^2/NDF : 2433949483307011
 Right Out: -1148.486+/-0.000 χ^2/NDF : 13752743033818143538377068393497886720.0/22
 Out: 220.186+/-0.000 χ^2/NDF : 4071170152408036
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 38.937+/-0.000 χ^2/NDF : 6718819997785

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1019.218+/-0.000

χ^2/NDF : 23352225669452507252068251611028258816.0/20

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: 84.184+/-0.000

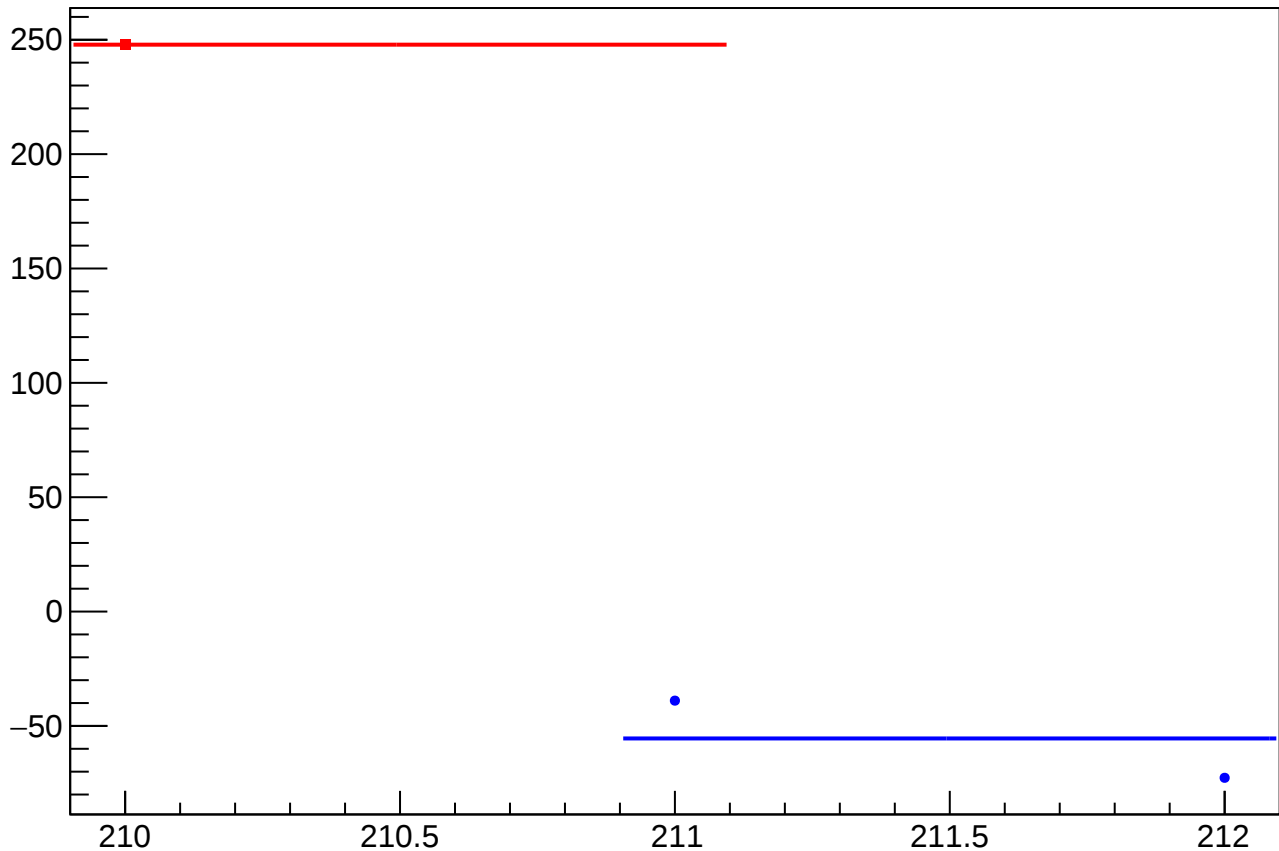
χ^2/NDF : 184075657657983320267883731273664954368.0/22

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

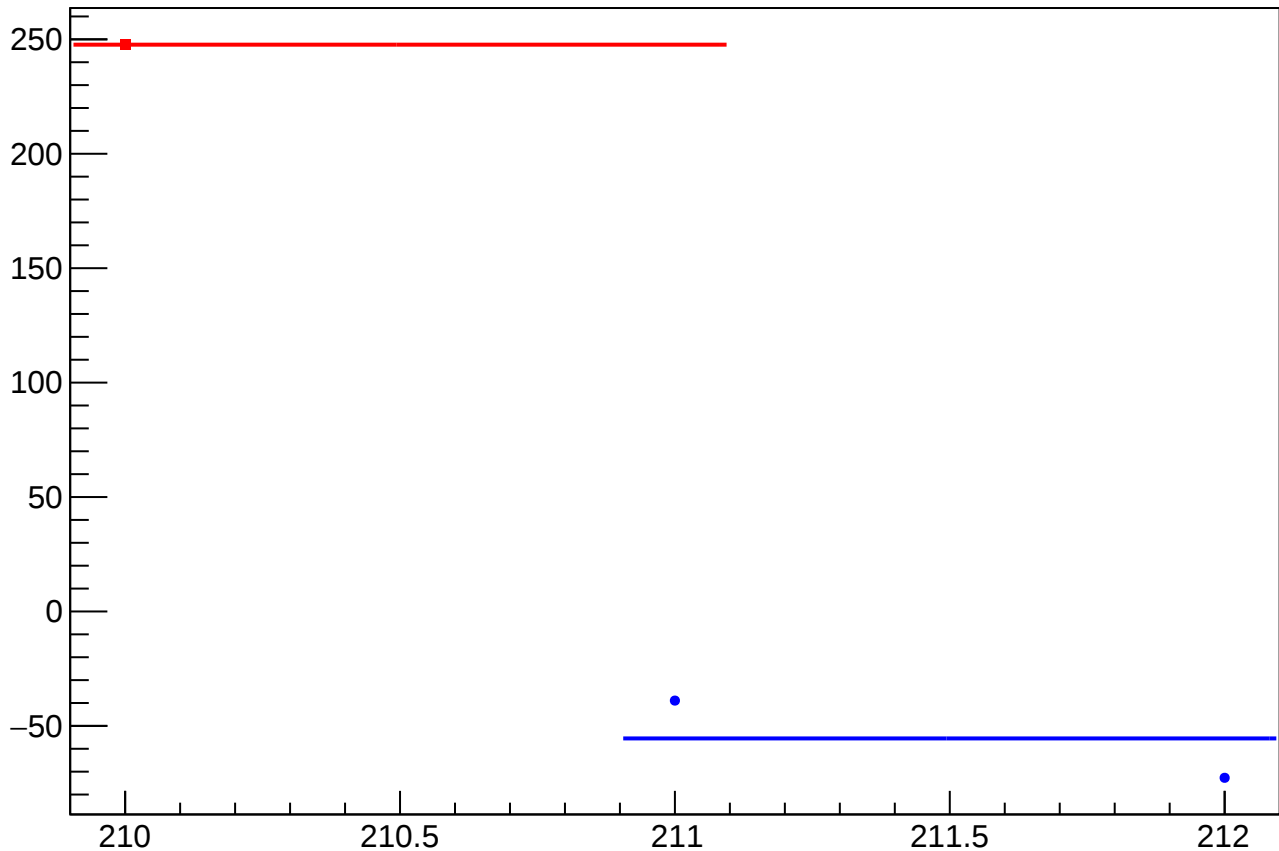
All: 117.905+/-0.000 χ^2/NDF : 328779456026

RTPPITA1CNT_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
Right: 42.461+/-0.000 χ^2/NDF : 4529059662824299
Right In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1
Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
Right Out: 247.863+/-0.000 χ^2/NDF : 58161.1/0
In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1
Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
All: 42.461+/-0.000 χ^2/NDF : 4529059662824299

RTPPITA2CNT_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
Right In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1
Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
Right Out: 247.671+/-0.000 χ^2/NDF : 58161.1/0
Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1
Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
All: 42.399+/-0.000 χ^2/NDF : 4523378759533439