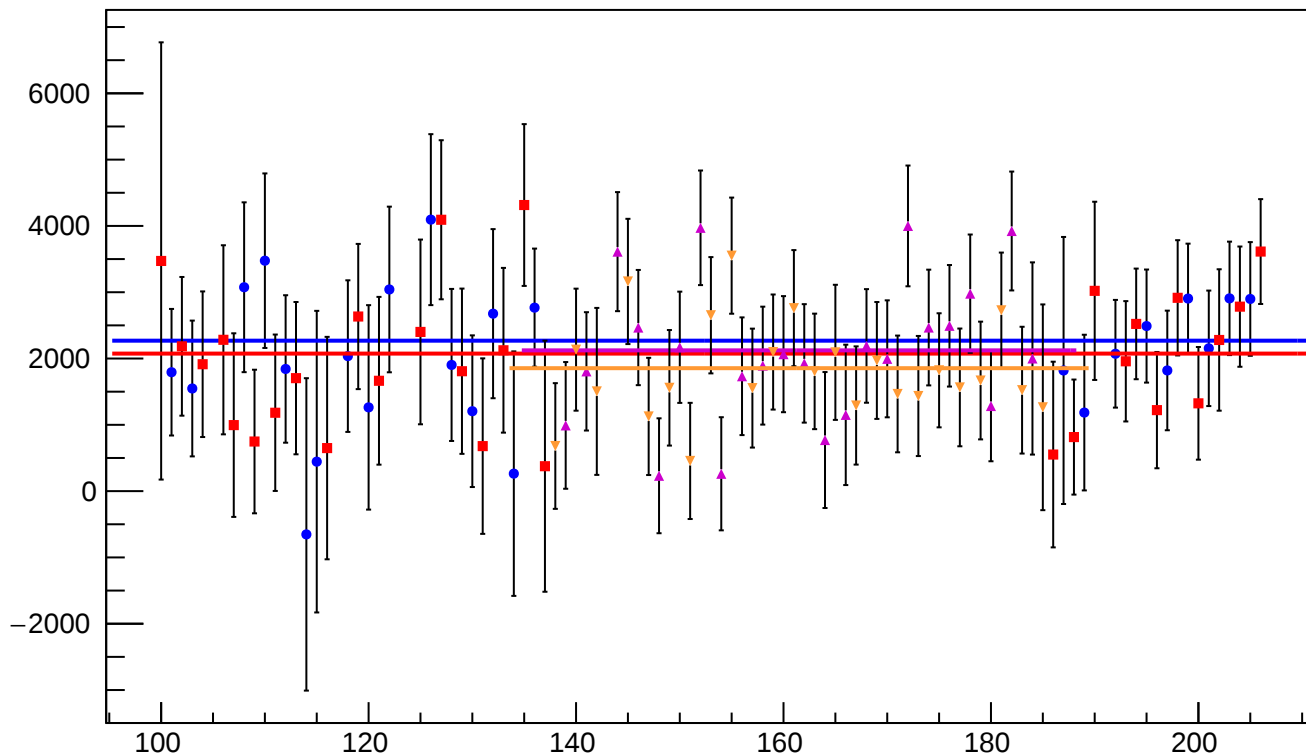


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2269.220+/-217.511

Left Out: 1854.267+/-187.405

Right Out: 2074.382+/-205.149

Left In: 2123.138+/-188.684

χ^2/NDF : 12.7/24

χ^2/NDF : 15.1/23

χ^2/NDF : 23.5/28

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2166.107+/-149.241

In: 2185.864+/-142.530

Out: 1954.396+/-138.364

All: 2066.698+/-99.278

χ^2/NDF : 48.1/46

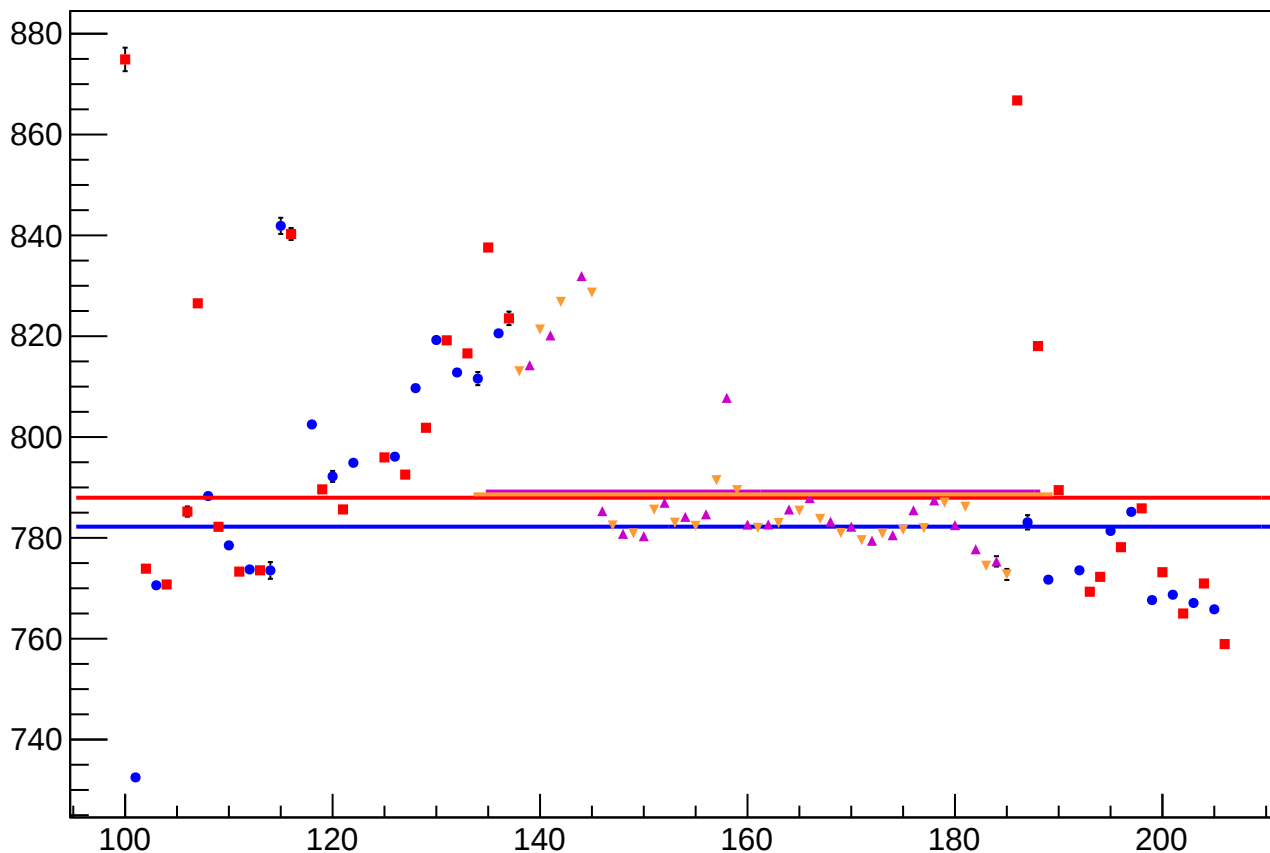
χ^2/NDF : 36.6/53

χ^2/NDF : 45.0/47

χ^2/NDF : 39.2/52

χ^2/NDF : 85.6/100

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 782.225 $\pm$ 0.154 χ^2 /NDF: 19891.1/24

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

Right Out: 787.968 $\pm$ 0.145 χ^2 /NDF: 28455.8/28

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

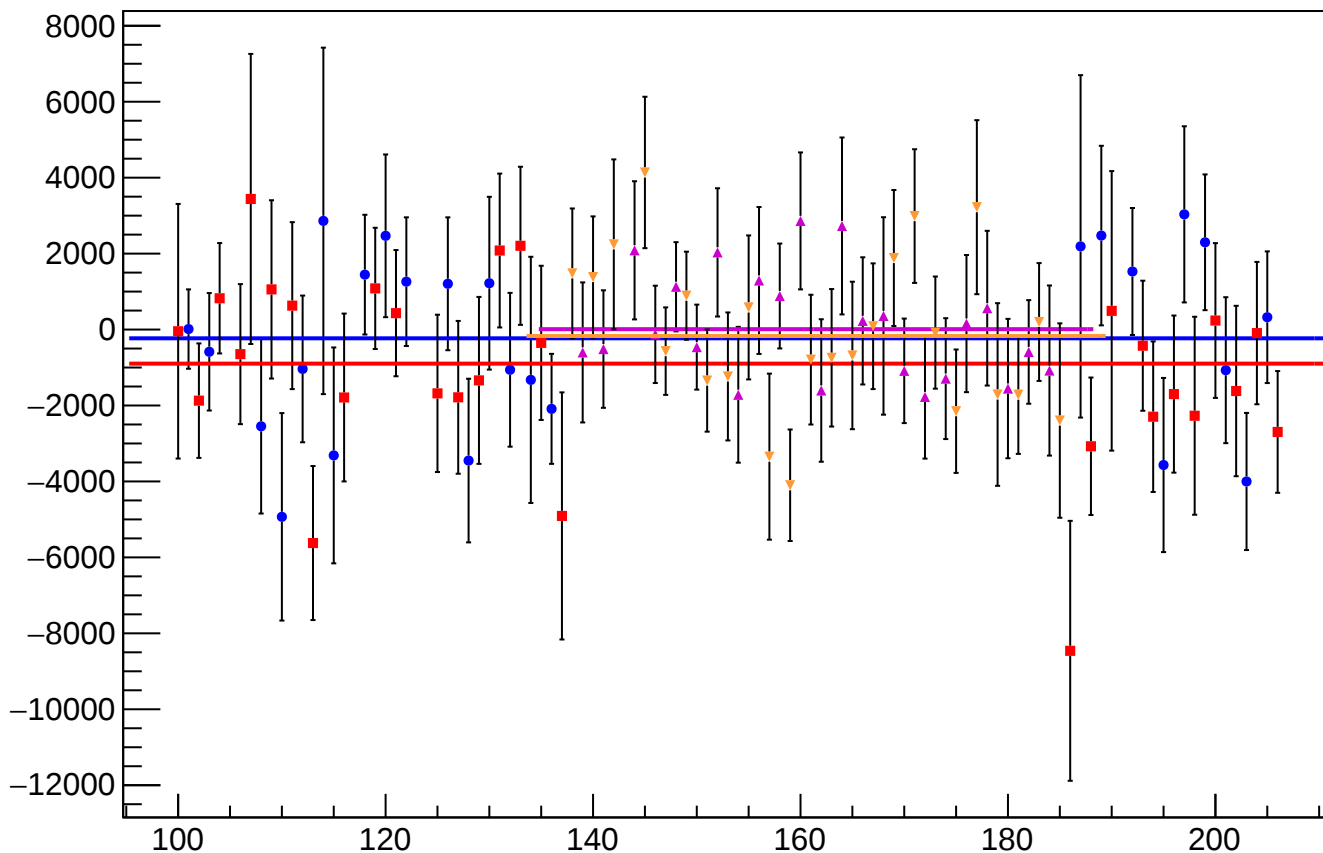
Right: 785.264 $\pm$ 0.106 χ^2 /NDF: 49084.9/53

In: 786.196 $\pm$ 0.101 χ^2 /NDF:32402.8/47

Out: 788.329 $\pm$ 0.098 χ^2 /NDF:39945.2/52

All: 787.294 $\pm$ 0.070 χ^2 /NDF: 72578.5/100

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -230.591 $\pm$ 383.467 χ^2 /NDF: 28.1/24

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

Right Out: -897.258 $\pm$ 377.764 χ^2 /NDF: 27.8/28

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

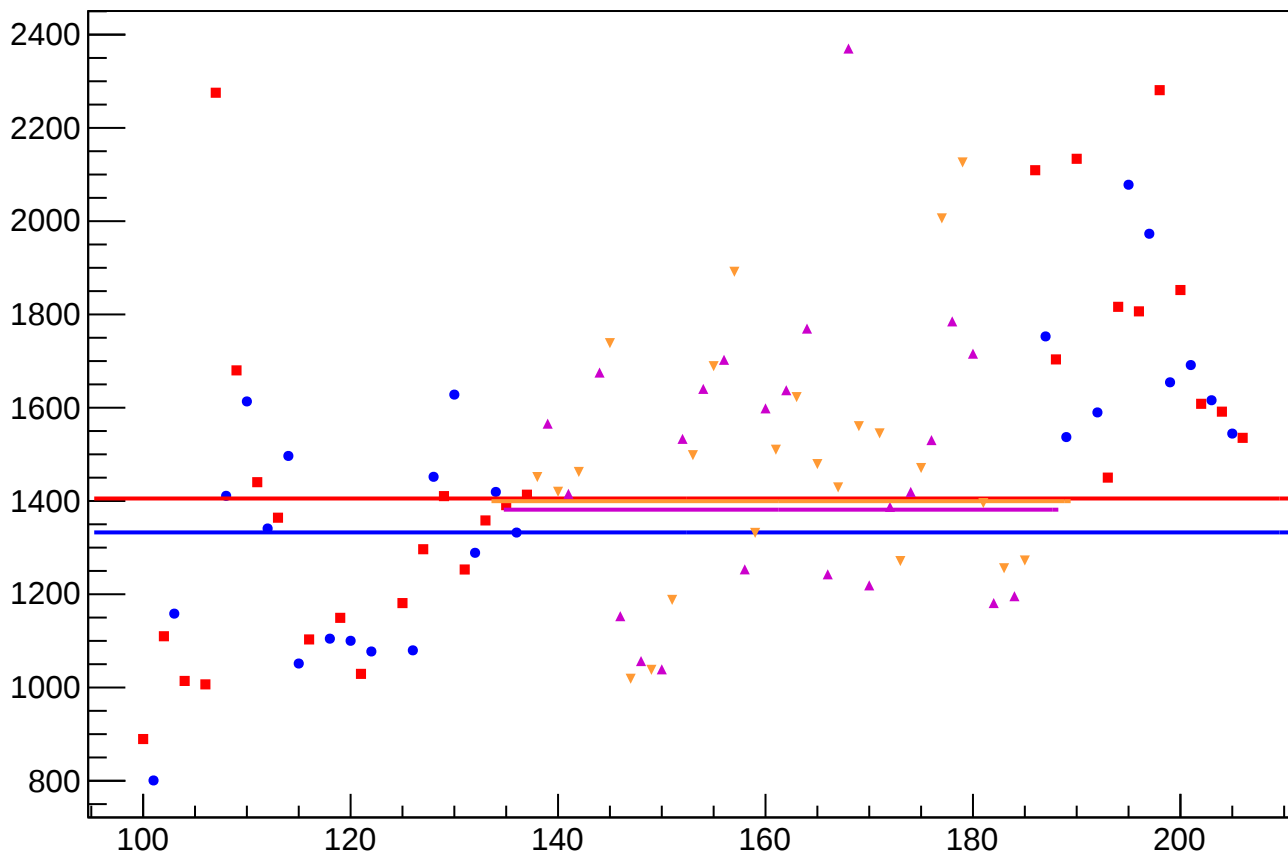
Right: -568.919 $\pm$ 269.113 χ^2 /NDF: 57.4/53

In: -95.075 $\pm$ 253.481 χ^2 /NDF:42.5/47

Out: -495.427 $\pm$ 252.876 χ^2 /NDF:59.9/52

All: -295.729 $\pm$ 179.024 χ^2 /NDF: 103.6/100

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1332.602 $\pm$ 0.271 χ^2 /NDF: 1440914.1/24

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

Right Out: 1405.332 $\pm$ 0.267 χ^2 /NDF: 1478717.1/28

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

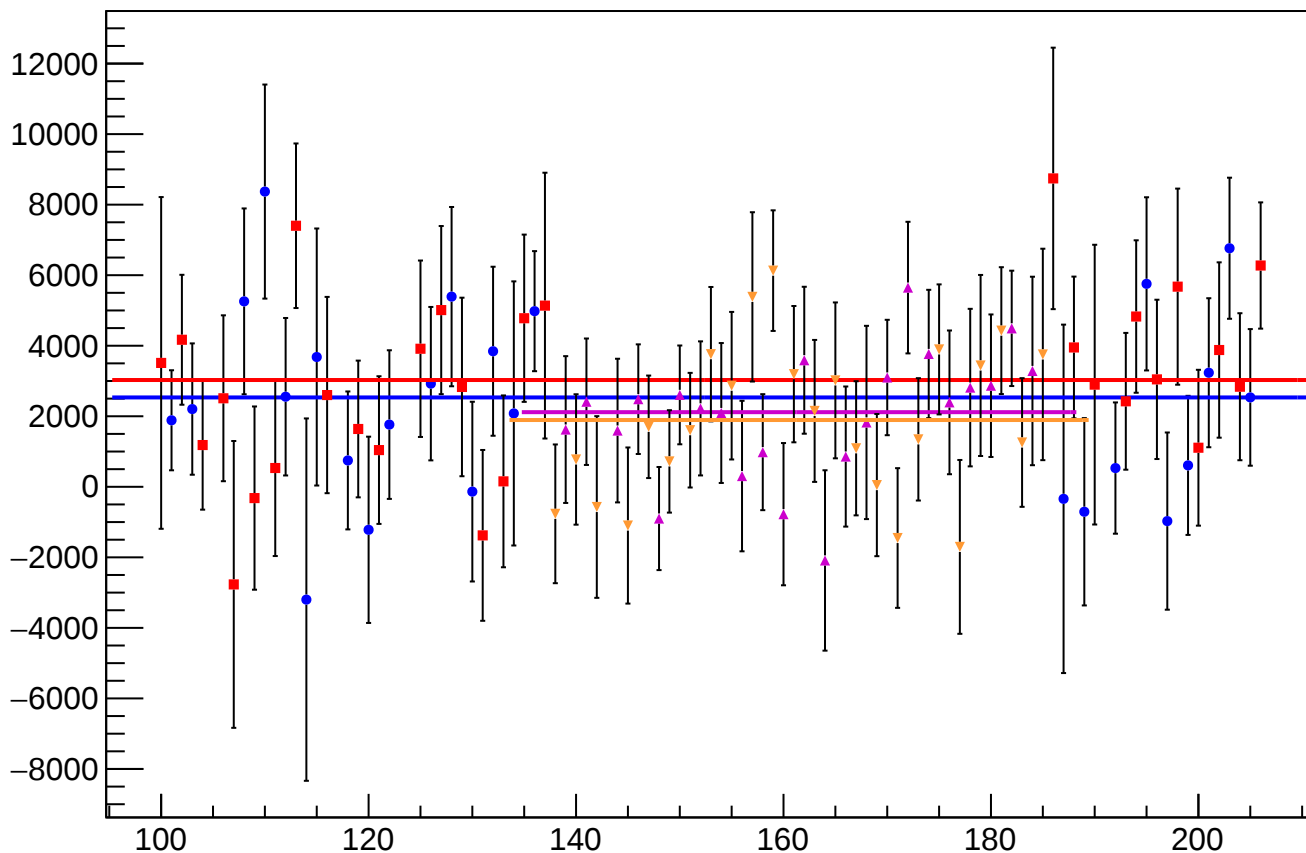
Right: 1369.512 $\pm$ 0.190 χ^2 /NDF: 2956142.6/53

In: 1360.054 $\pm$ 0.179 χ^2 /NDF: 2735606.8/47

Out: 1402.161 $\pm$ 0.179 χ^2 /NDF: 2598097.5/52

All: 1381.158 $\pm$ 0.127 χ^2 /NDF: 5361364.2/100

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2533.891 $\pm$ 452.367 χ^2 /NDF: 26.3/24

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

Right Out: 3027.828 $\pm$ 439.676 χ^2 /NDF: 25.9/28

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

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

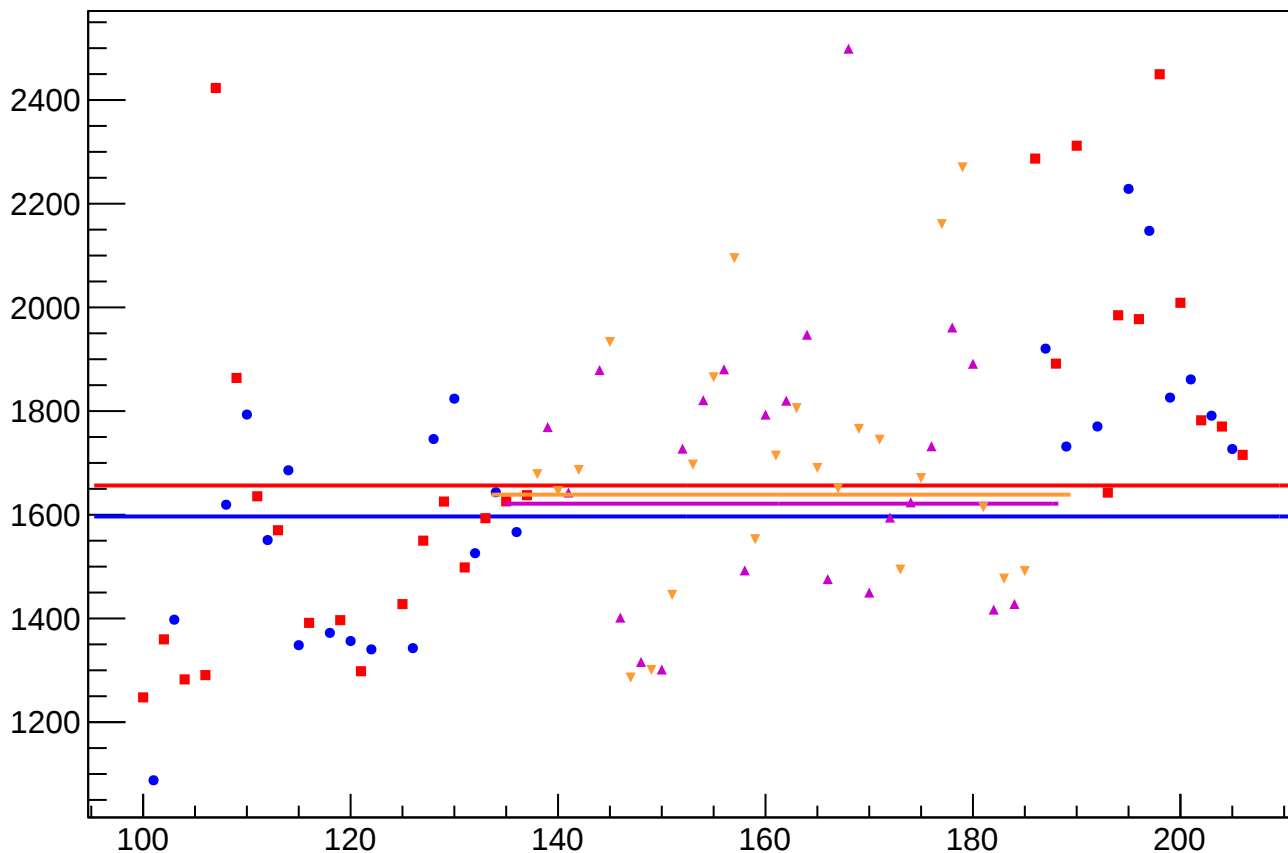
Right: 2787.885 $\pm$ 315.289 χ^2 /NDF: 52.9/53

In: 2295.806 $\pm$ 296.676 χ^2 /NDF: 45.6/47

Out: 2399.931 $\pm$ 293.786 χ^2 /NDF: 55.6/52

All: 2348.378 $\pm$ 208.752 χ^2 /NDF: 101.2/100

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1596.739 $\pm$ 0.320 χ^2 /NDF: 770960.2/24

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

Right Out: 1656.476 $\pm$ 0.311 χ^2 /NDF: 882771.2/28

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

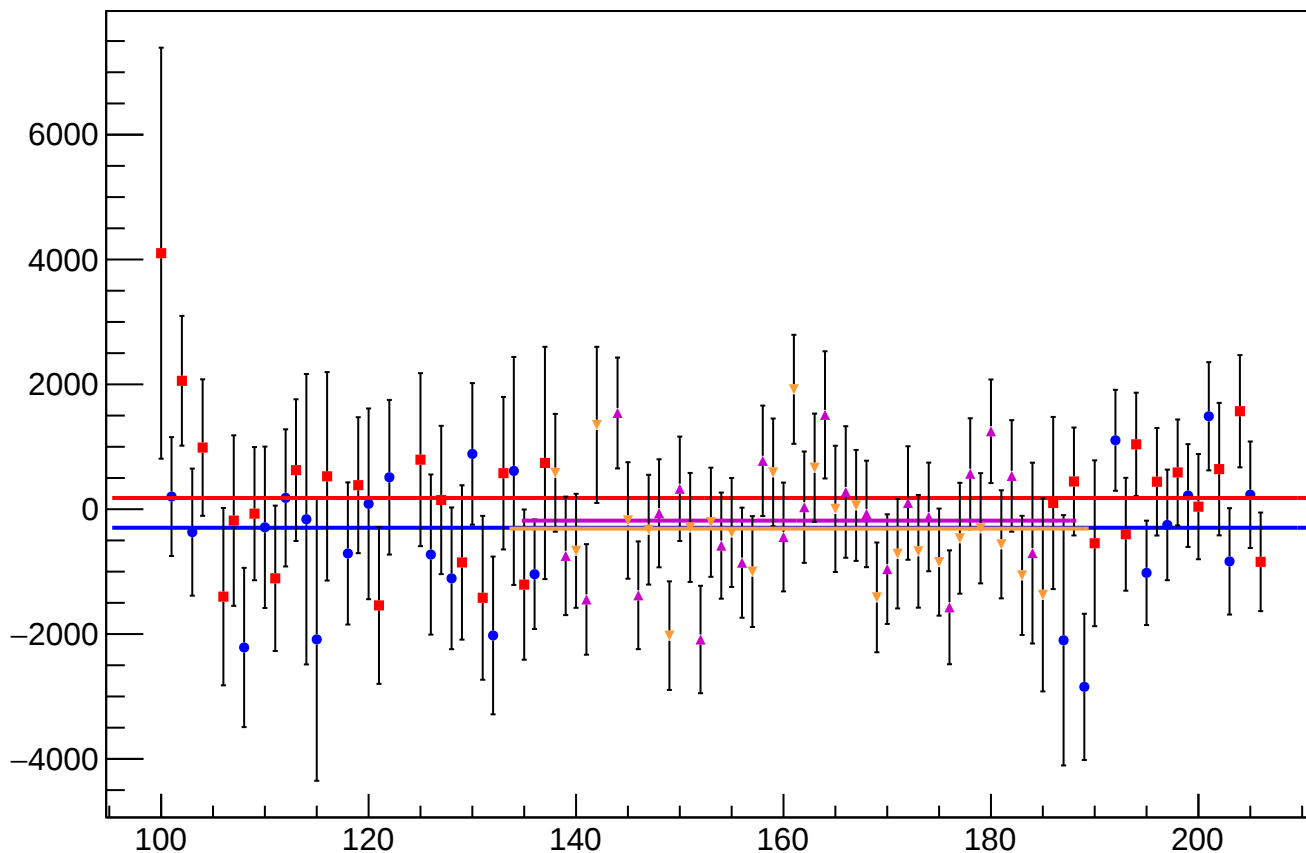
Right: 1627.457 $\pm$ 0.223 χ^2 /NDF: 1671665.5/53

In: 1610.803 $\pm$ 0.210 χ^2 /NDF: 1549662.2/47

Out: 1646.695 $\pm$ 0.208 χ^2 /NDF: 1556465.8/52

All: 1628.925 $\pm$ 0.148 χ^2 /NDF: 3120907.9/100

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -297.201 $\pm$ 215.695 χ^2 /NDF: 23.2/24

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

Right Out: 179.937 $\pm$ 203.224 χ^2 /NDF: 20.3/28

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

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

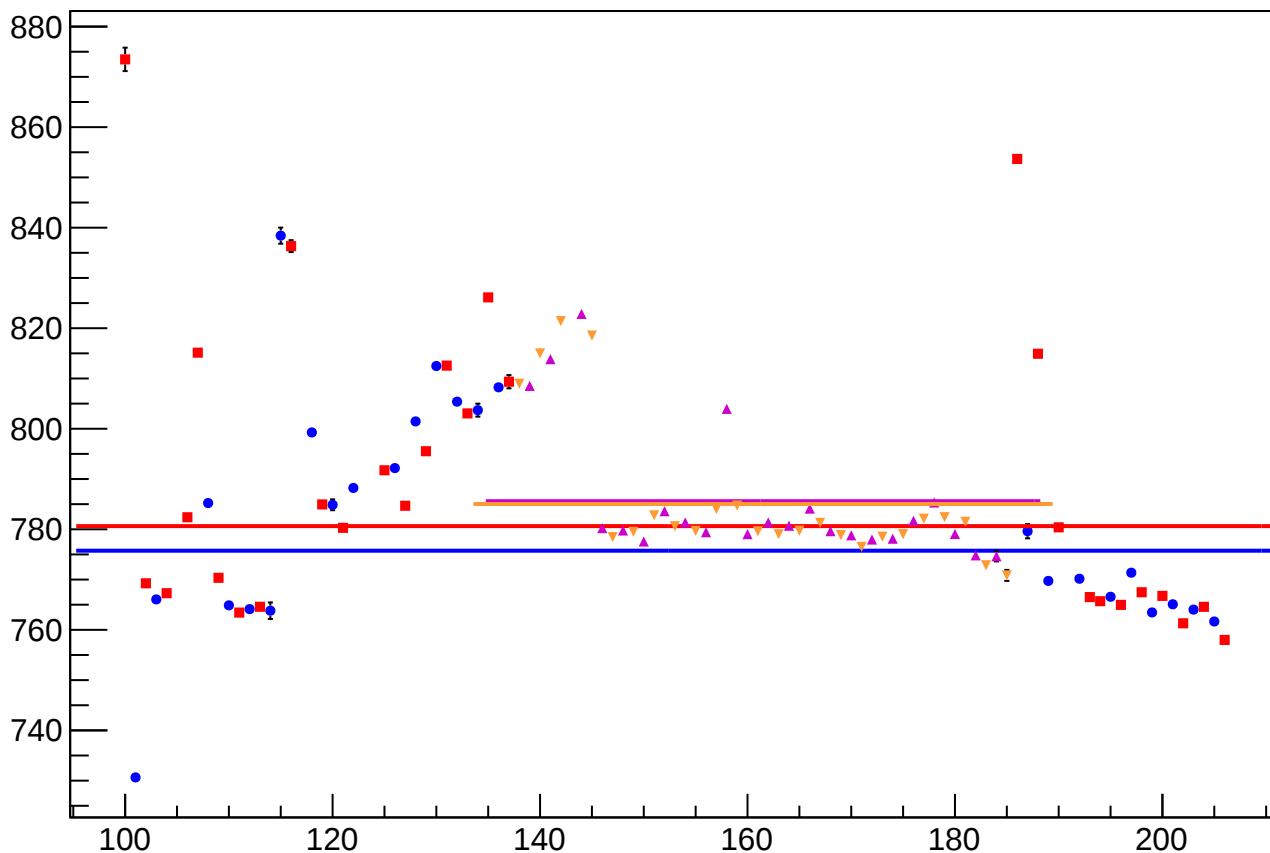
Right: -44.440 $\pm$ 147.913 χ^2 /NDF: 46.2/53

In: -232.188 $\pm$ 141.645 χ^2 /NDF:49.5/47

Out: -86.273 $\pm$ 137.423 χ^2 /NDF:43.5/52

All: -157.024 $\pm$ 98.631 χ^2 /NDF: 93.6/100

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 775.744+/-0.153 χ^2/NDF : 17736.9/24

Left Out: 785.031+/-0.132 χ^2/NDF : 9367.9/23

Right Out: 780.633+/-0.144 χ^2/NDF : 26846.7/28

Left In: 785.592+/-0.133 χ^2/NDF : 9373.7/22

Left: 785.309+/-0.094 χ^2/NDF : 18750.6/46

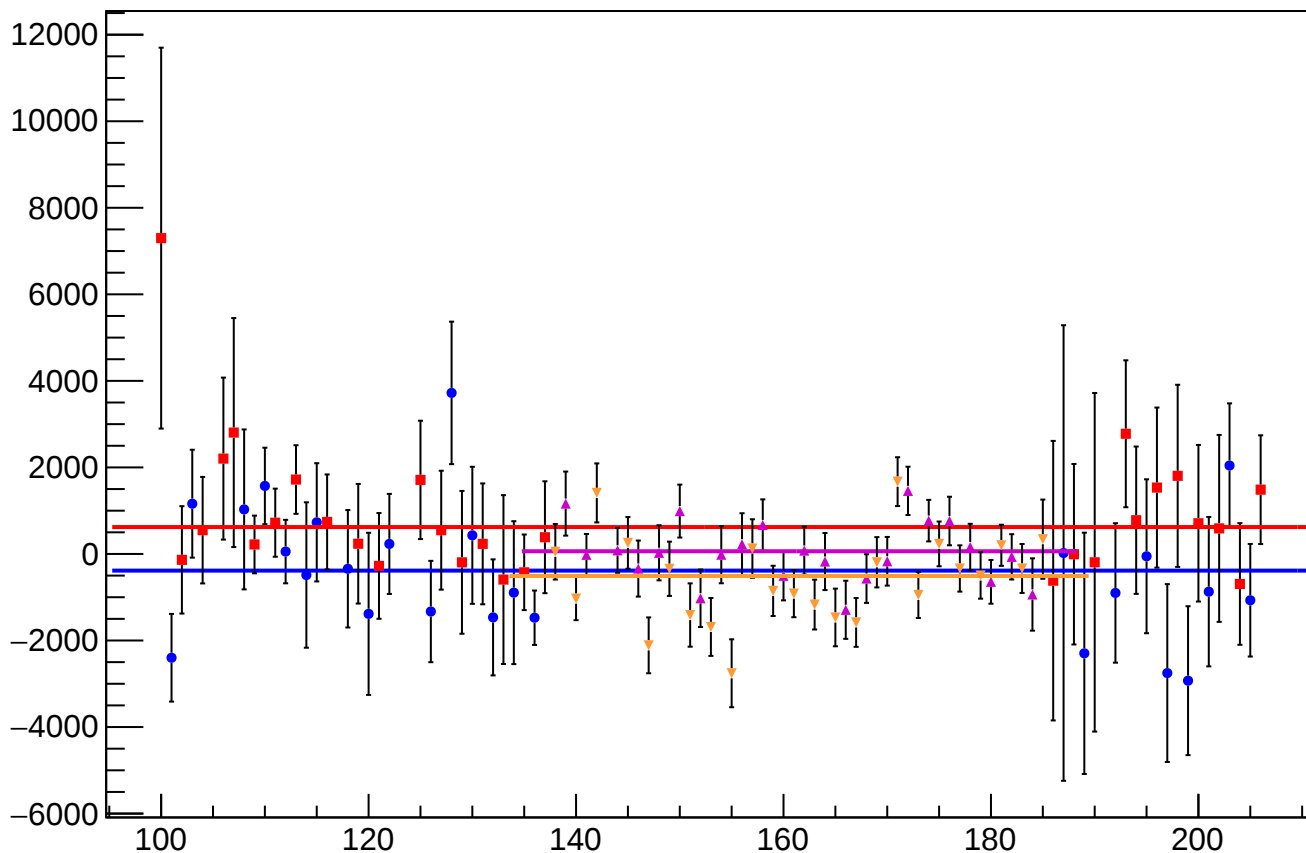
Right: 778.334+/-0.105 χ^2/NDF : 45128.0/53

In: 781.345+/-0.100 χ^2/NDF : 29482.1/47

Out: 783.020+/-0.097 χ^2/NDF : 36722.9/52

All: 782.208+/-0.070 χ^2/NDF : 66349.0/100

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -384.842 $\pm$ 255.482 χ^2/NDF : 30.8/24

Left Out: -509.311 $\pm$ 121.190 χ^2/NDF : 60.5/23

Right Out: 621.991 $\pm$ 245.099 χ^2/NDF : 13.6/28

Left In: 62.768 $\pm$ 122.045 χ^2/NDF : 28.8/22

Left: -225.283 $\pm$ 85.995 χ^2/NDF : 100.4/46

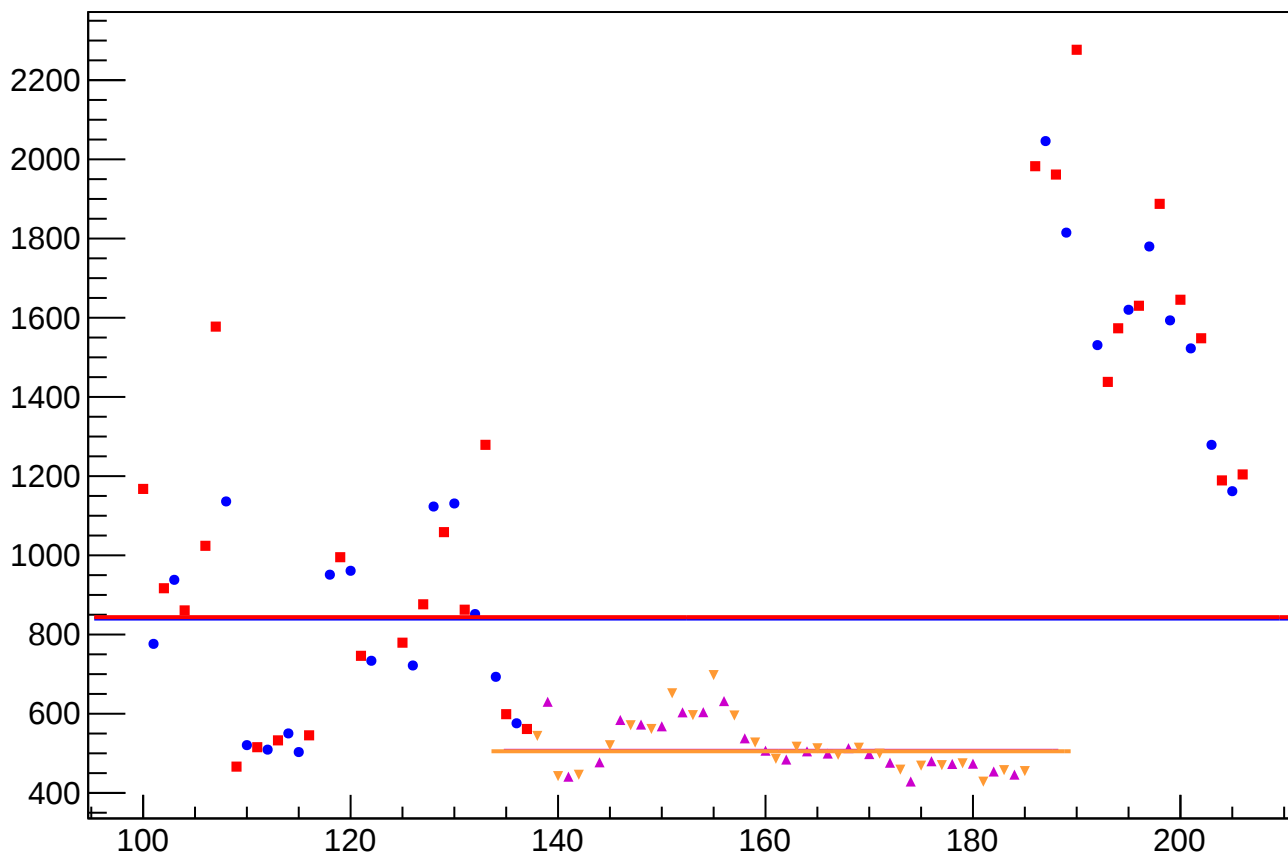
Right: 139.449 $\pm$ 176.868 χ^2/NDF : 52.5/53

In: -20.399 $\pm$ 110.125 χ^2/NDF : 62.1/47

Out: -287.061 $\pm$ 108.636 χ^2/NDF : 91.3/52

All: -155.546 $\pm$ 77.338 χ^2/NDF : 156.3/100

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 840.328+/-0.181 χ^2/NDF : 4000960.6/24

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

Right Out: 843.877+/-0.173 χ^2/NDF : 5512123.0/28

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

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

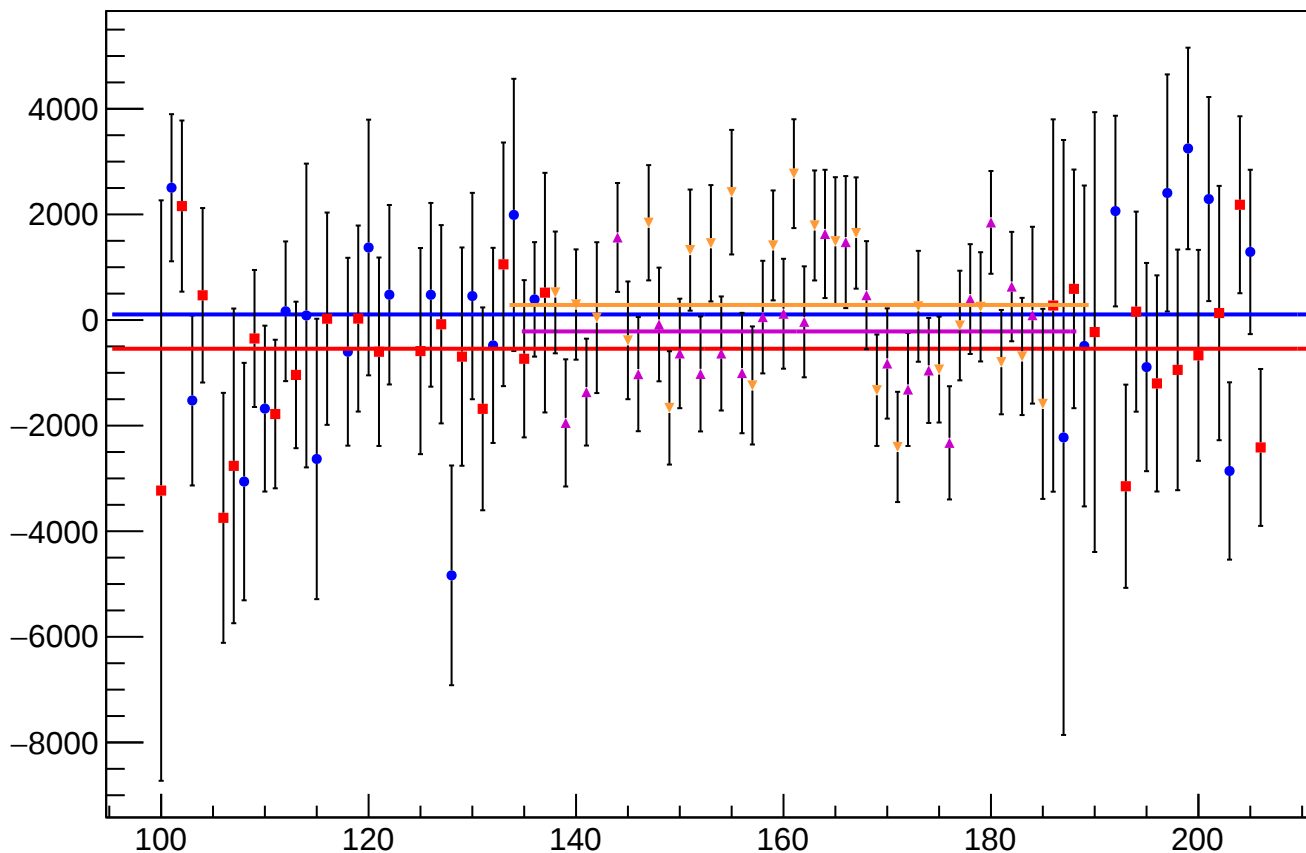
Right: 842.176+/-0.125 χ^2/NDF : 9513284.6/53

In: 568.429+/-0.078 χ^2/NDF : 7219500.2/47

Out: 571.751+/-0.077 χ^2/NDF : 9065868.6/52

All: 570.112+/-0.055 χ^2/NDF : 16286291.3/100

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 105.816 ± 365.150 χ^2/NDF : 25.6/24

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

Right Out: -543.728 ± 353.470 χ^2/NDF : 14.7/28

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

Left: 35.874 ± 159.089 χ^2/NDF : 65.2/46

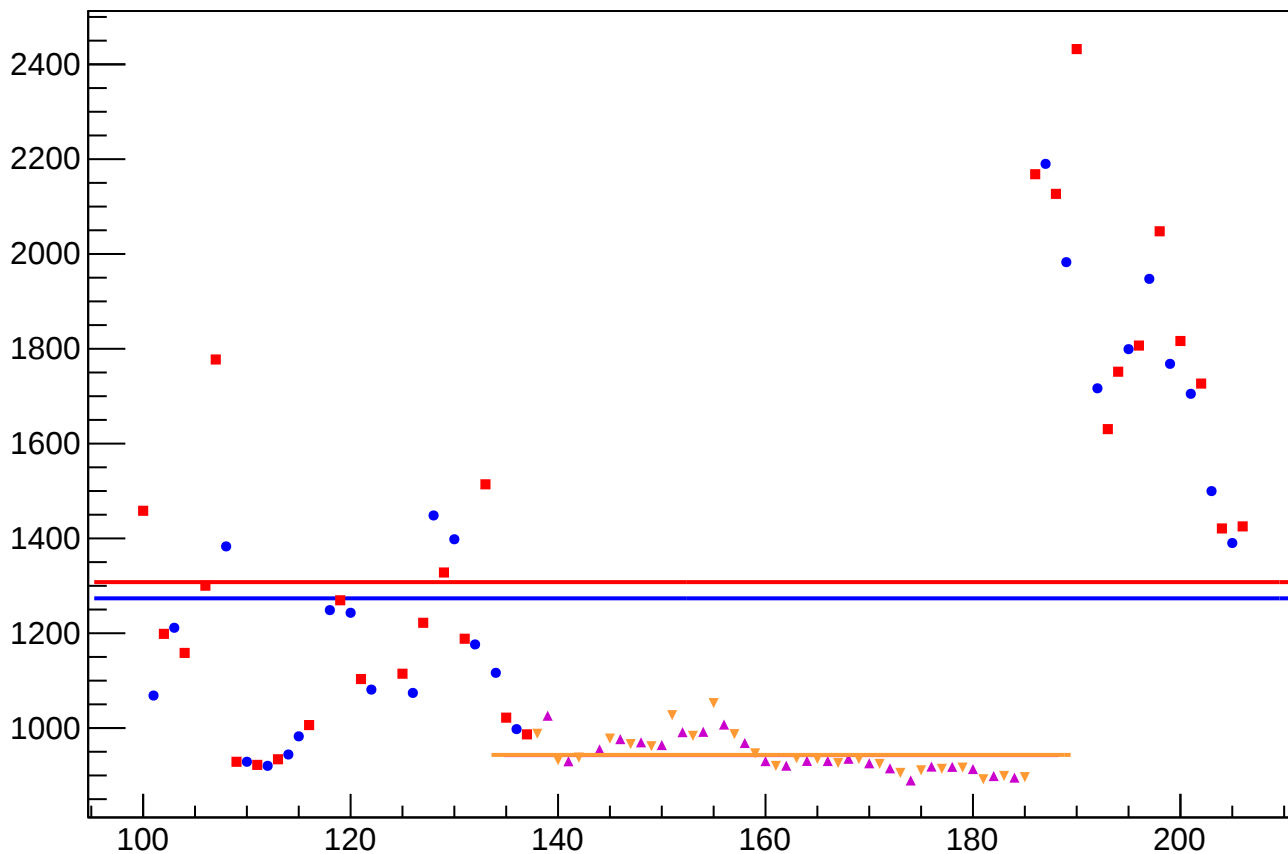
Right: -229.511 ± 253.970 χ^2/NDF : 42.0/53

In: -127.182 ± 191.925 χ^2/NDF : 50.6/47

Out: 47.078 ± 189.434 χ^2/NDF : 56.9/52

All: -38.914 ± 134.822 χ^2/NDF : 107.9/100

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1273.622 $\pm$ 0.258 χ^2/NDF : 1443672.1/24

Left Out: 943.351 $\pm$ 0.159 χ^2/NDF :60365.2/23

Right Out: 1307.828 $\pm$ 0.250 χ^2/NDF : 2011519.1/28

Left In: 942.927 $\pm$ 0.160 χ^2/NDF :48402.9/22

Left: 943.140 $\pm$ 0.112 χ^2/NDF : 108771.7/46

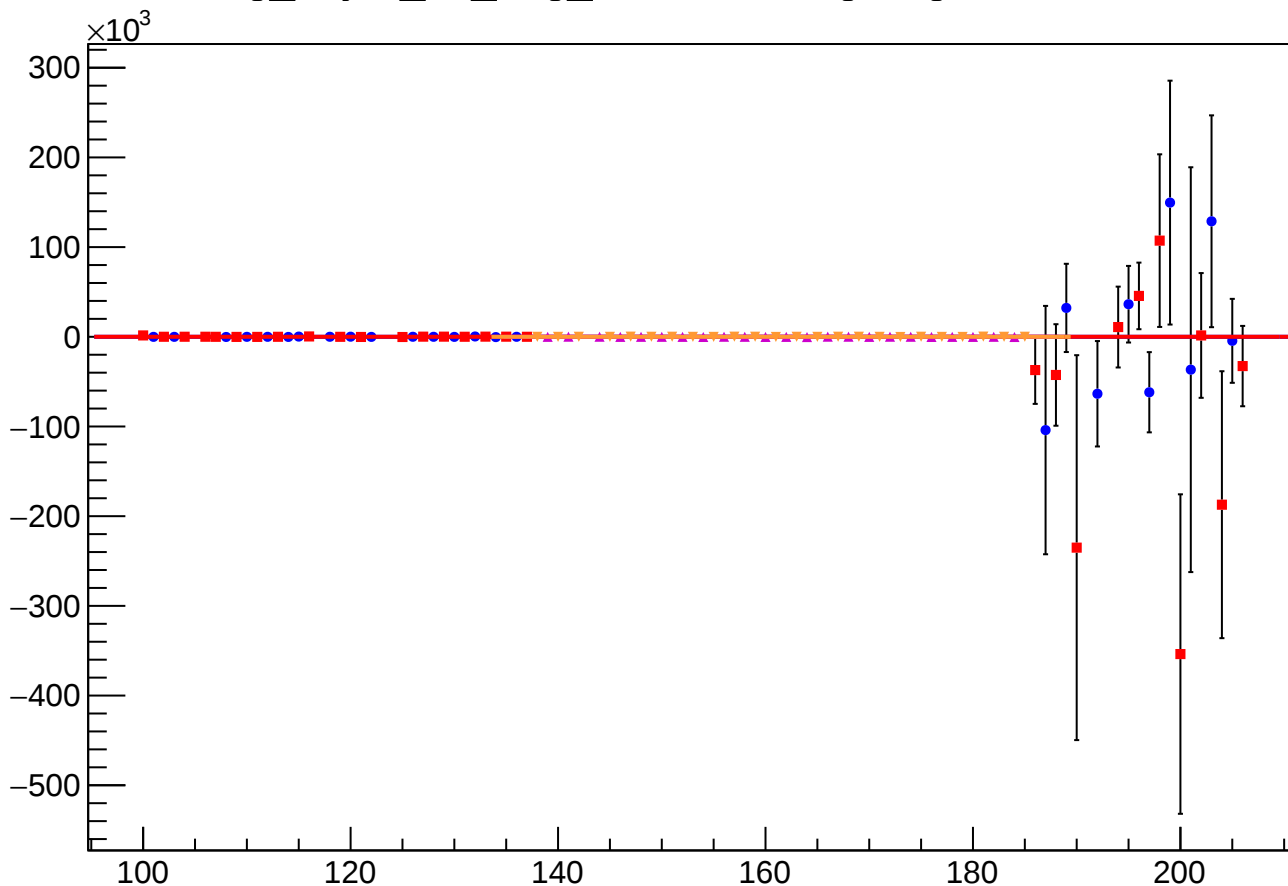
Right: 1291.281 $\pm$ 0.180 χ^2/NDF : 3464251.8/53

In: 1034.285 $\pm$ 0.136 χ^2/NDF :2679281.3/47

Out: 1048.035 $\pm$ 0.134 χ^2/NDF :3587622.6/52

All: 1041.250 $\pm$ 0.095 χ^2/NDF : 6272104.0/100

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.557 $\pm$ 30.032 χ^2 /NDF: 23.2/24

Left Out: 3.710 $\pm$ 21.467 χ^2 /NDF:22.4/23

Right Out: 31.726 $\pm$ 30.492 χ^2 /NDF: 28.4/27

Left In: -22.931 $\pm$ 21.584 χ^2 /NDF:22.5/22

Left: -9.538 $\pm$ 15.221 χ^2 /NDF: 45.7/46

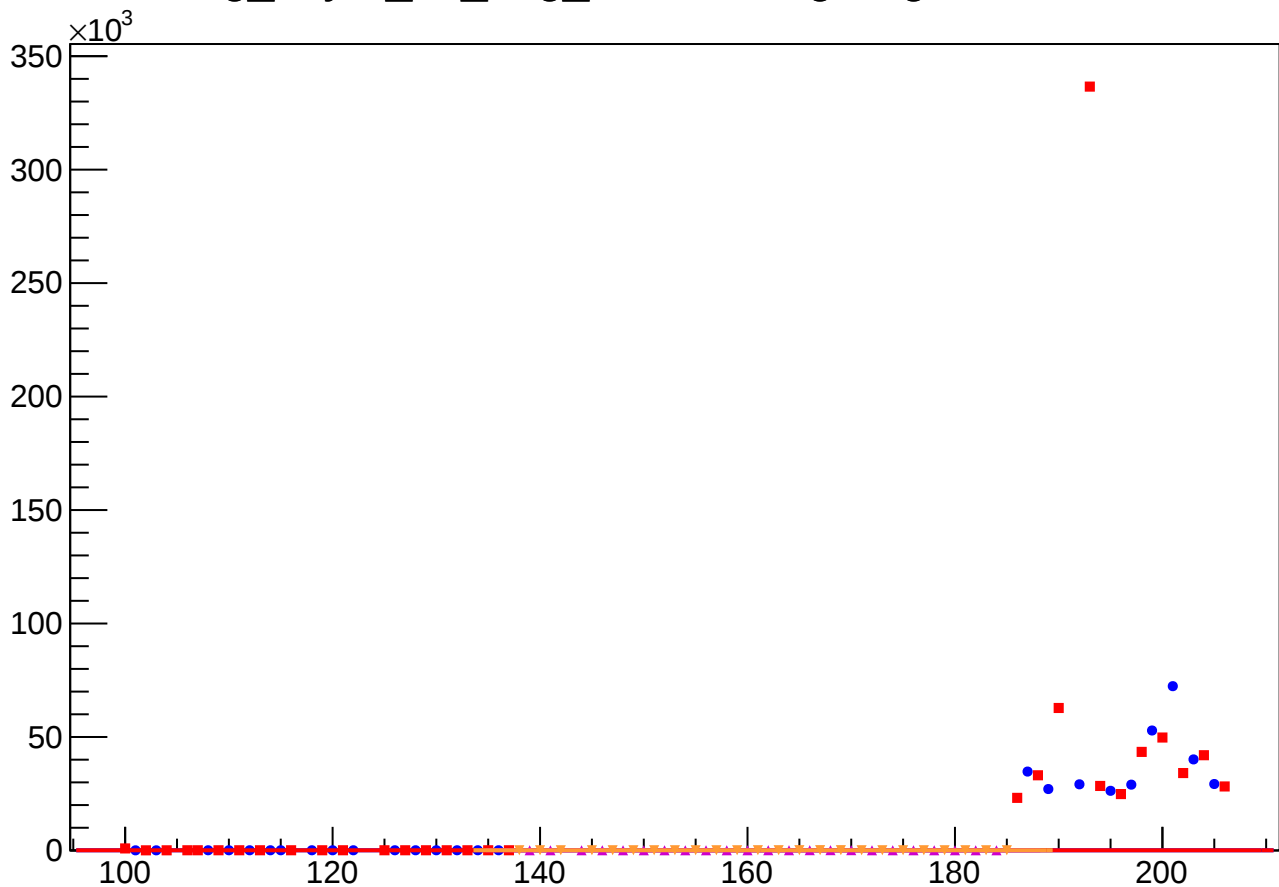
Right: 7.726 $\pm$ 21.397 χ^2 /NDF: 52.8/52

In: -20.420 $\pm$ 17.527 χ^2 /NDF:45.7/47

Out: 12.995 $\pm$ 17.553 χ^2 /NDF:51.4/51

All: -3.737 $\pm$ 12.403 χ^2 /NDF: 98.9/99

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.118 $\pm$ 0.021 χ^2 /NDF: 4864296.6/24

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

Right Out: 79.455 $\pm$ 0.022 χ^2 /NDF: 5795031.1/28

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

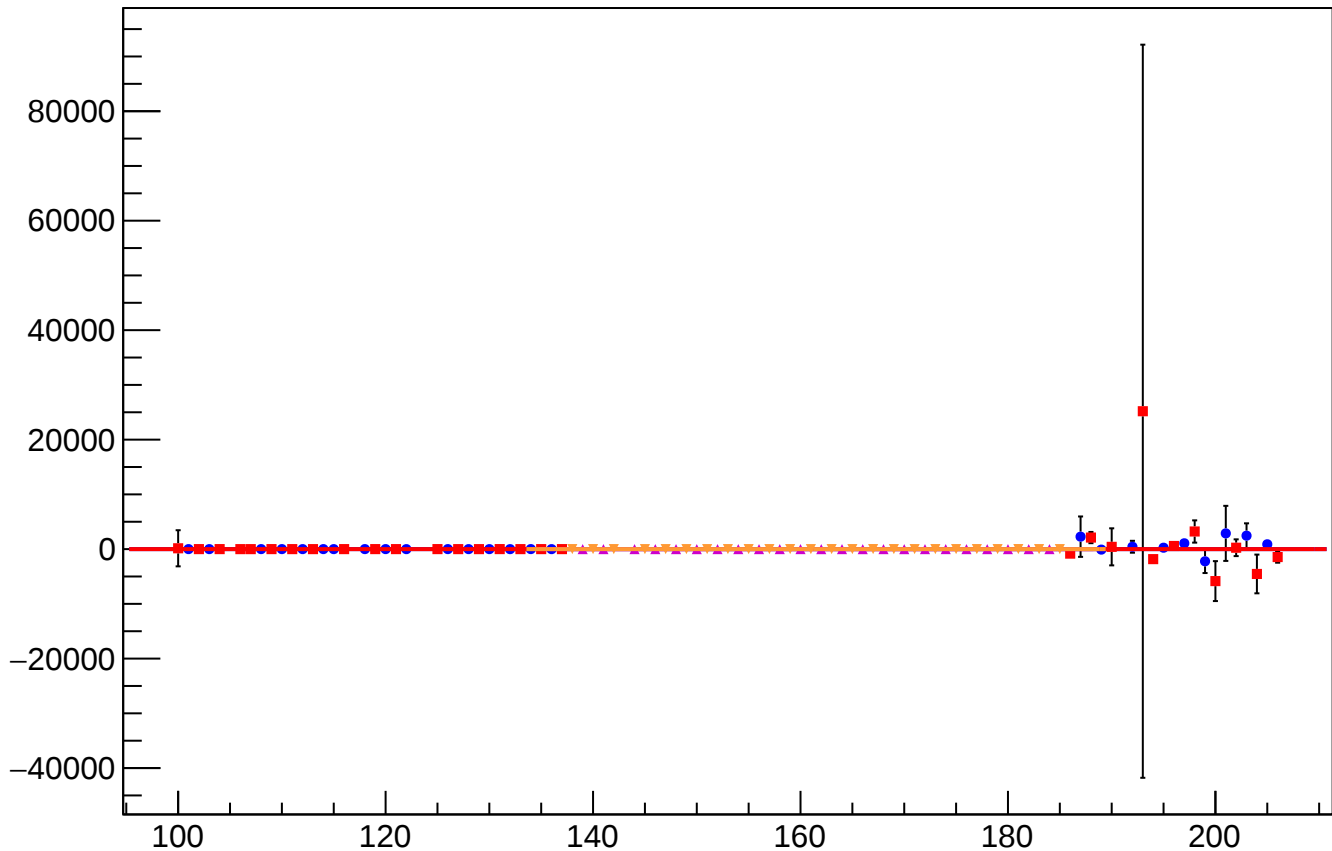
Right: 77.761 $\pm$ 0.015 χ^2 /NDF: 10671483.7/53

In: 85.005 $\pm$ 0.012 χ^2 /NDF: 5638386.7/47

Out: 86.300 $\pm$ 0.012 χ^2 /NDF: 6412038.8/52

All: 85.651 $\pm$ 0.009 χ^2 /NDF: 12055870.9/100

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289 ± 0.502 χ^2/NDF : 27.1/24

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

Right Out: 0.038 ± 0.525 χ^2/NDF : 29.0/28

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

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

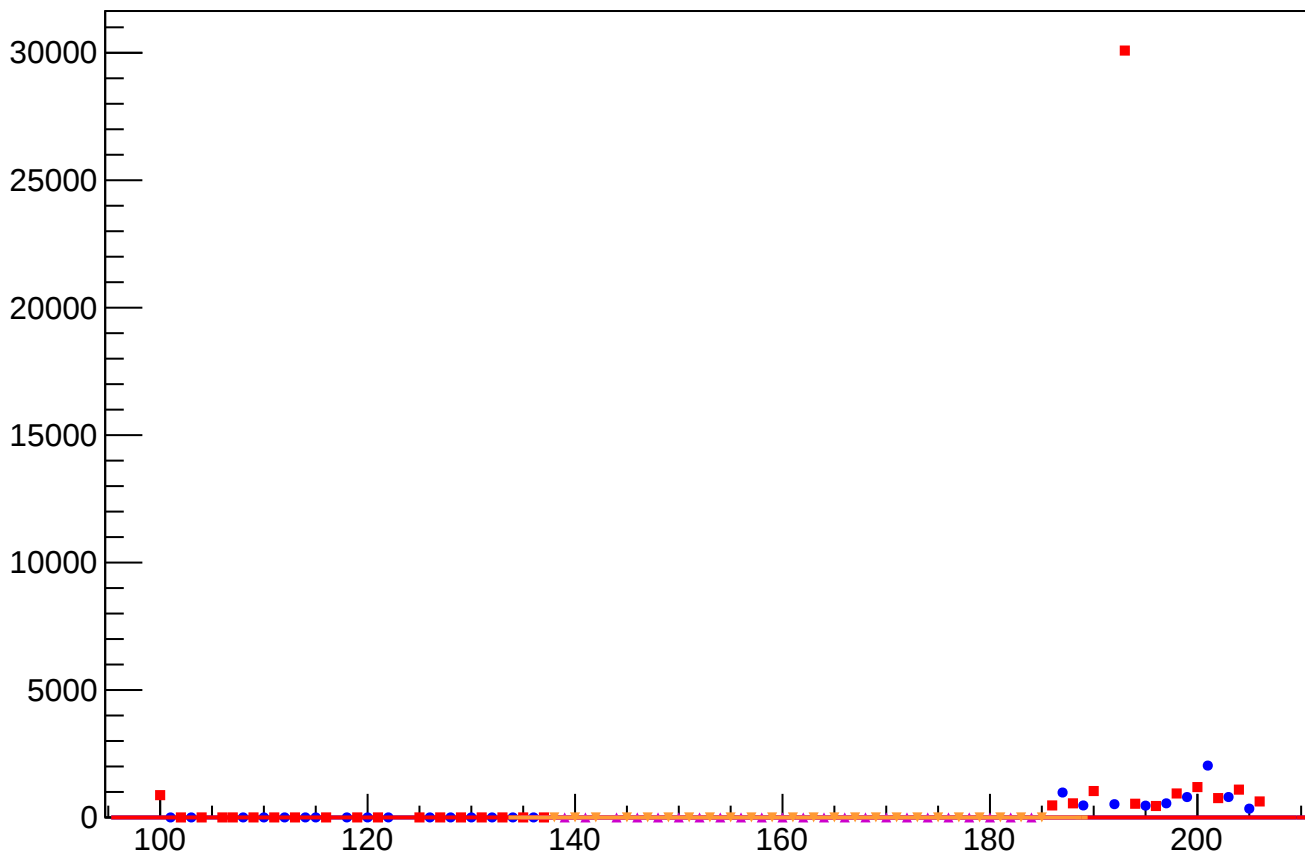
Right: -0.133 ± 0.363 χ^2/NDF : 56.4/53

In: -0.433 ± 0.306 χ^2/NDF : 53.6/47

Out: 0.096 ± 0.306 χ^2/NDF : 50.4/52

All: -0.168 ± 0.217 χ^2/NDF : 105.5/100

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 4357019.3/24

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

Right Out: 1.260+/-0.000 χ^2/NDF : 5924913.8/28

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

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

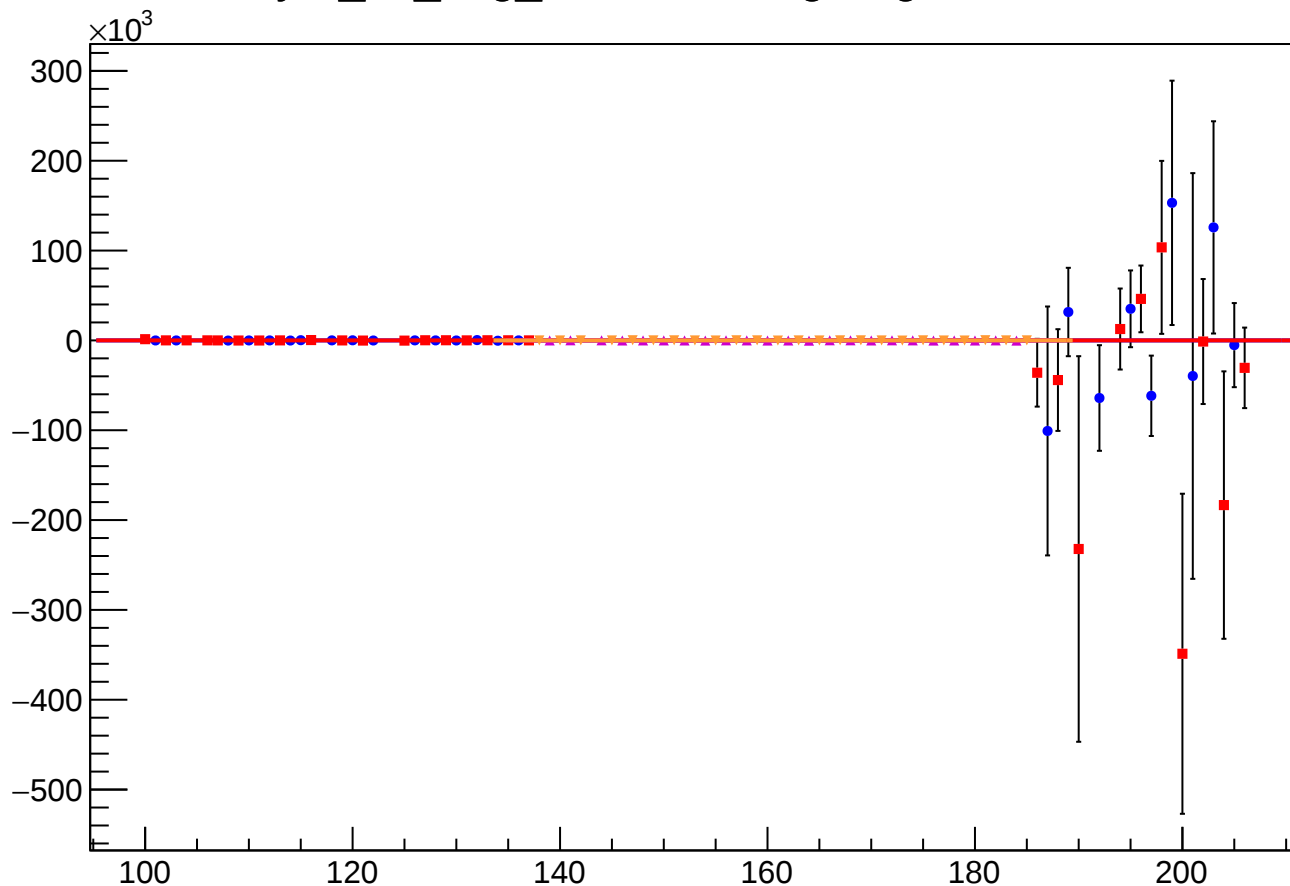
Right: 1.204+/-0.000 χ^2/NDF : 10325517.9/53

In: 1.341+/-0.000 χ^2/NDF : 5801947.9/47

Out: 1.358+/-0.000 χ^2/NDF : 7017600.1/52

All: 1.350+/-0.000 χ^2/NDF : 12822546.0/100

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.495+/-30.040 χ^2/NDF : 23.4/24

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

Right Out: 32.007+/-30.500 χ^2/NDF : 28.1/27

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

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

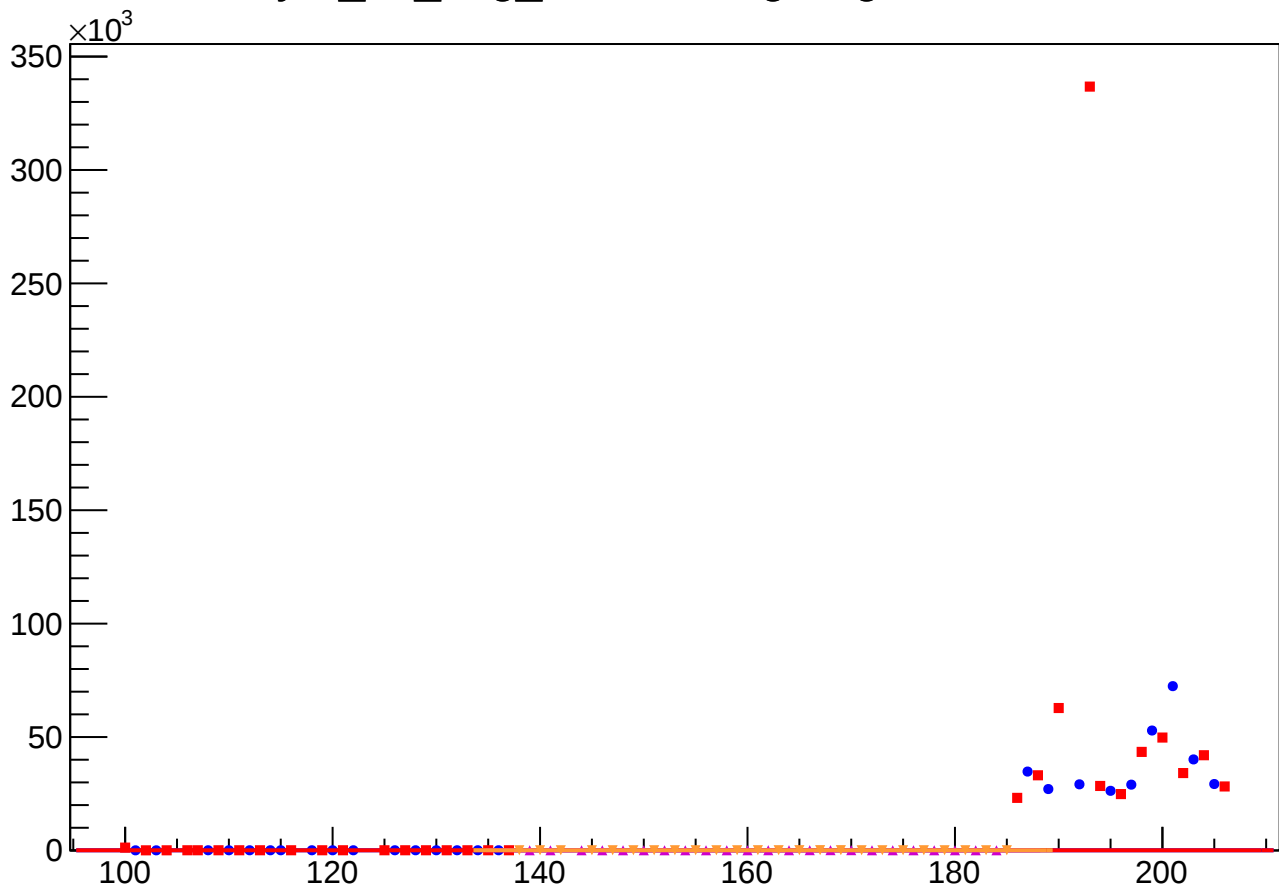
Right: 8.403+/-21.402 χ^2/NDF : 52.6/52

In: -19.737+/-17.532 χ^2/NDF :45.8/47

Out: 12.946+/-17.559 χ^2/NDF :50.8/51

All: -3.420+/-12.407 χ^2/NDF : 98.2/99

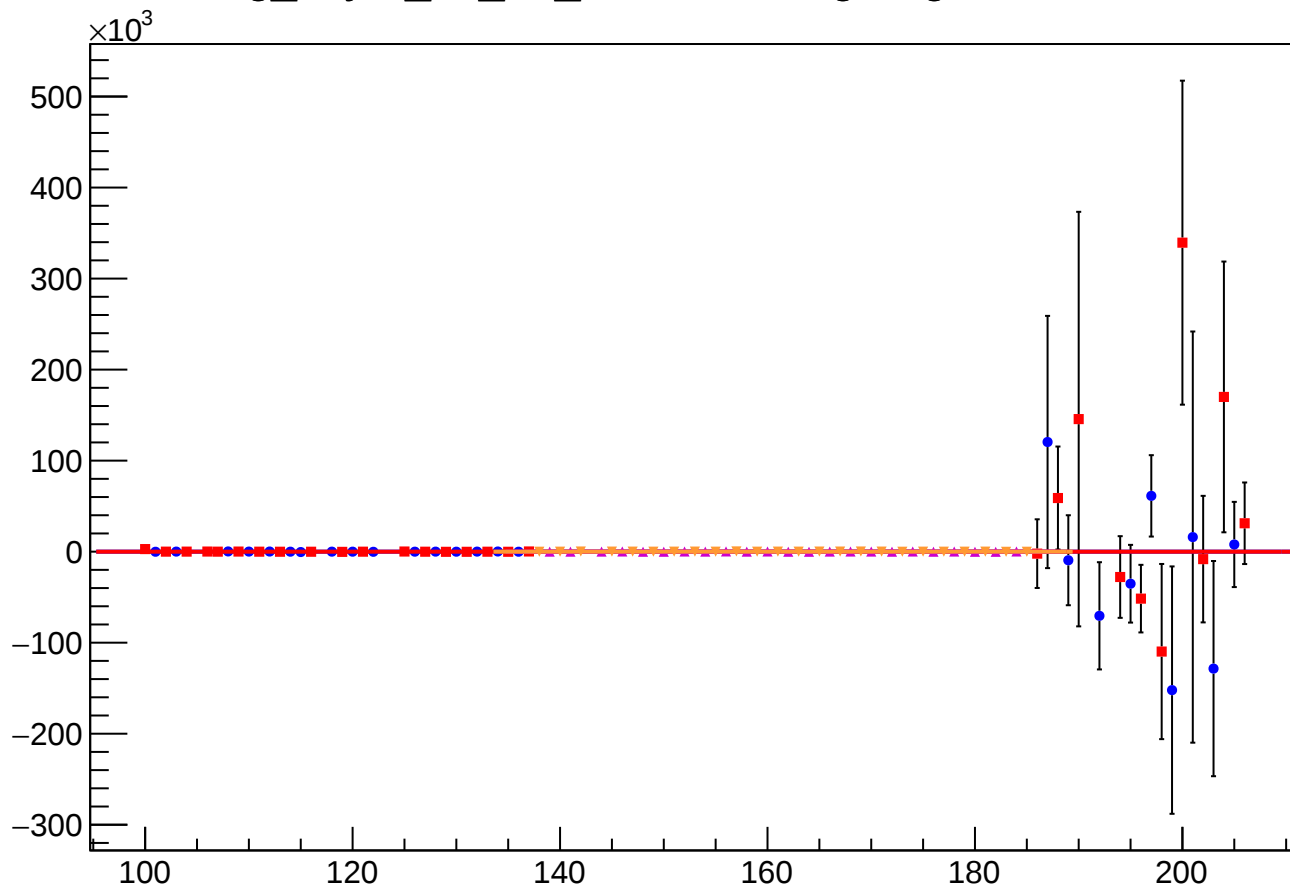
asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.138 $\pm$ 0.021 χ^2 /NDF: 4864426.4/24
 Left Out: 89.719 $\pm$ 0.015 χ^2 /NDF: 467023.5/23
 Right Out: 79.458 $\pm$ 0.022 χ^2 /NDF: 5801656.3/28
 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: 77.773 $\pm$ 0.015 χ^2 /NDF: 10678112.8/53
 In: 85.029 $\pm$ 0.012 χ^2 /NDF: 5639519.3/47
 Out: 86.318 $\pm$ 0.012 χ^2 /NDF: 6420007.4/52
 All: 85.673 $\pm$ 0.009 χ^2 /NDF: 12064925.8/100

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.095 ± 30.012 $\chi^2/\text{NDF}: 21.3/24$

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

Right Out: -25.785 ± 30.473 $\chi^2/\text{NDF}: 23.3/27$

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

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

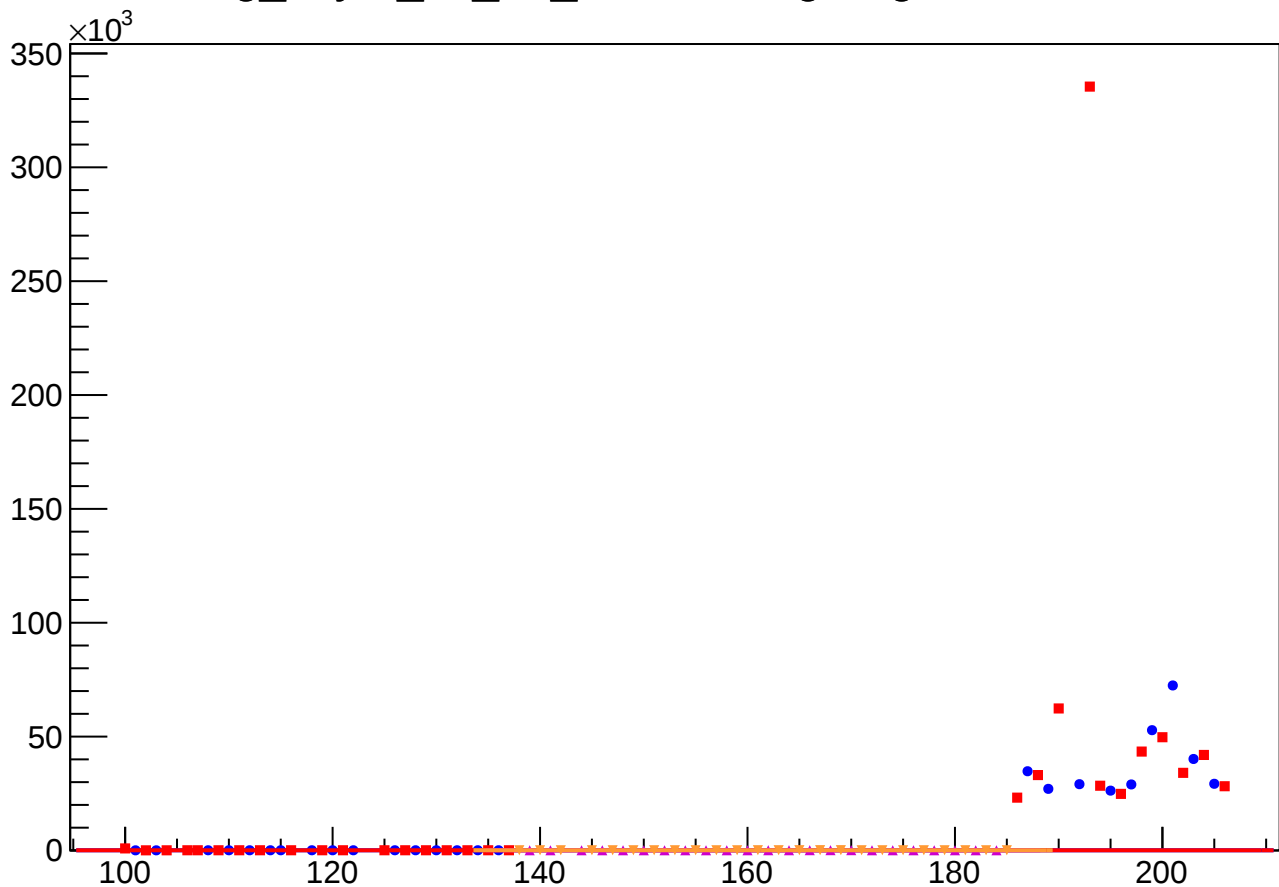
Right: -8.587 ± 21.383 $\chi^2/\text{NDF}: 45.2/52$

In: 31.374 ± 17.528 $\chi^2/\text{NDF}: 53.6/47$

Out: 1.652 ± 17.552 $\chi^2/\text{NDF}: 41.7/51$

All: 16.533 ± 12.403 $\chi^2/\text{NDF}: 96.8/99$

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.069 $\pm$ 0.021 χ^2 /NDF: 4863542.8/24

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

Right Out: 79.406 $\pm$ 0.022 χ^2 /NDF: 5794312.7/28

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

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

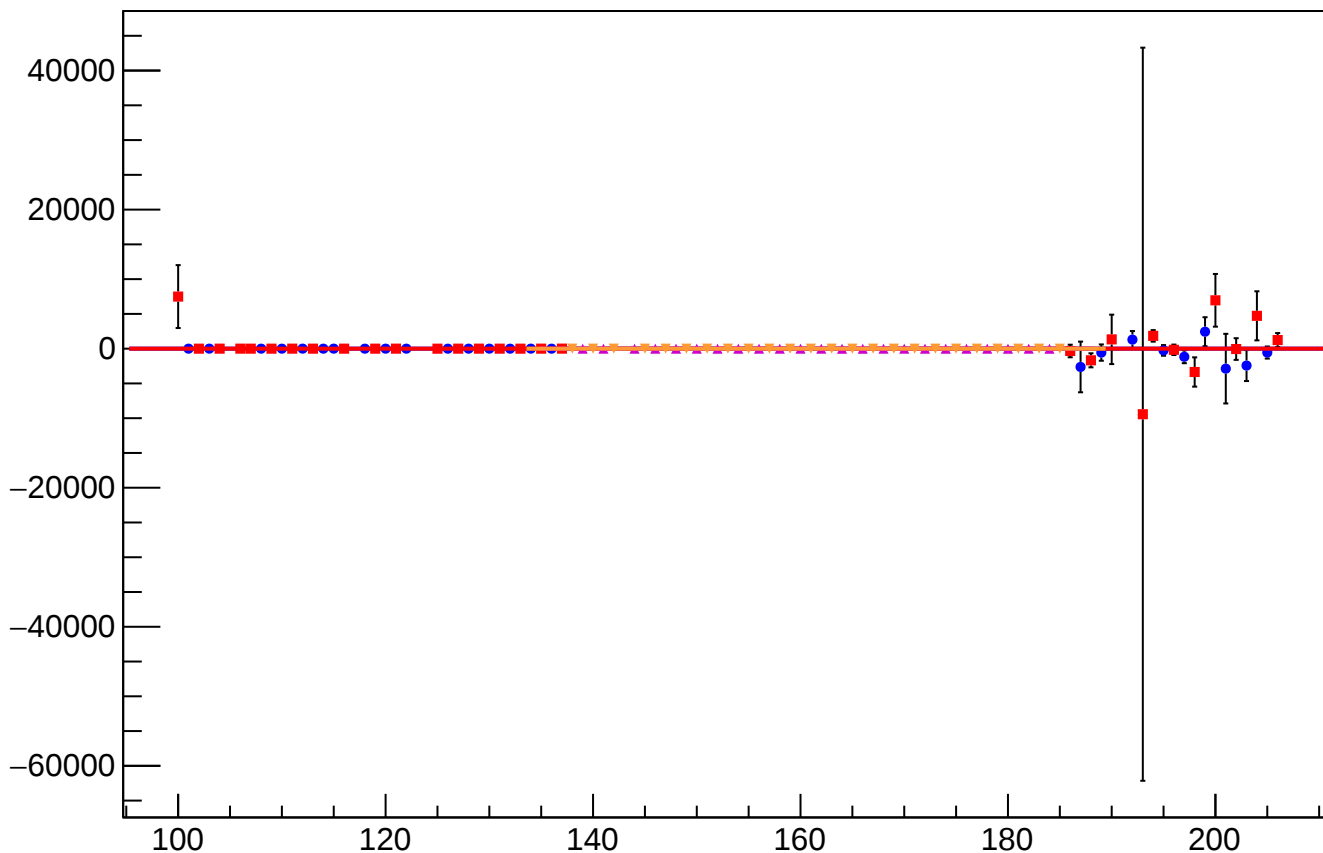
Right: 77.712 $\pm$ 0.015 χ^2 /NDF: 10670032.6/53

In: 85.003 $\pm$ 0.012 χ^2 /NDF: 5643546.1/47

Out: 86.293 $\pm$ 0.012 χ^2 /NDF: 6412261.1/52

All: 85.647 $\pm$ 0.009 χ^2 /NDF: 12061214.6/100

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.891 ± 0.531 $\chi^2/\text{NDF}: 18.8/24$

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

Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 30.7/28$

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

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

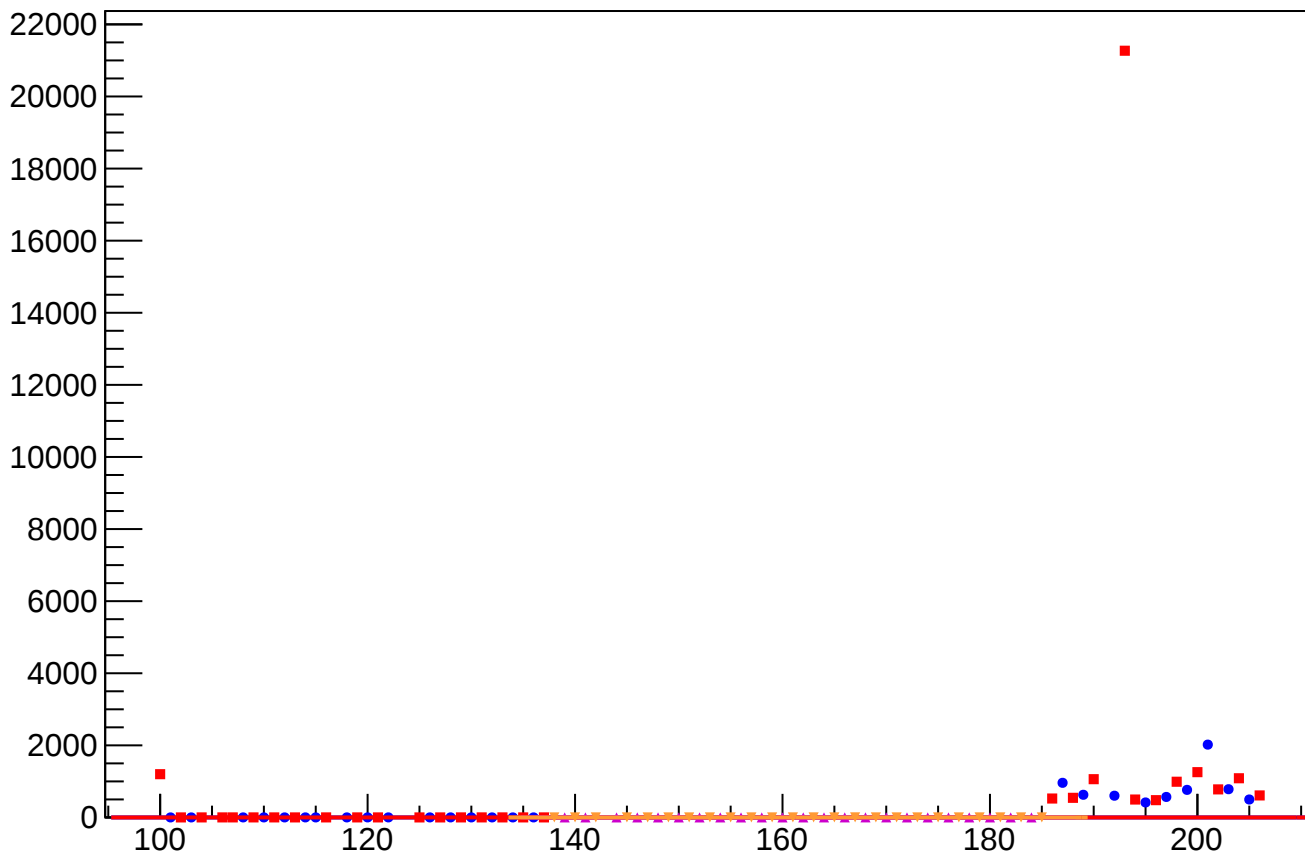
Right: 0.628 ± 0.382 $\chi^2/\text{NDF}: 50.0/53$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 41.3/47$

Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 53.0/52$

All: 0.024 ± 0.224 $\chi^2/\text{NDF}: 95.5/100$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 4654182.9/24

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

Right Out: 1.317+/-0.000 χ^2/NDF : 5888852.6/28

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

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

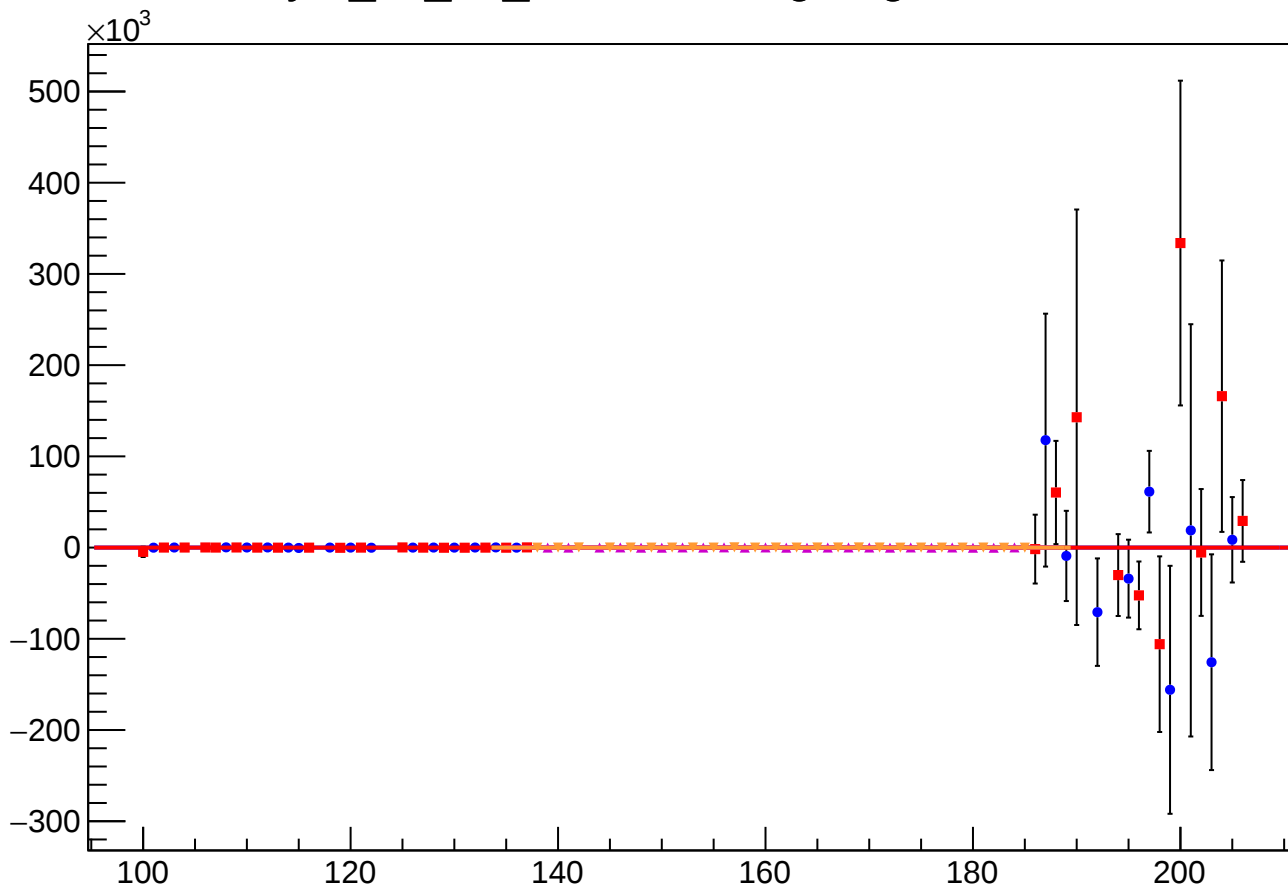
Right: 1.274+/-0.000 χ^2/NDF : 10566375.4/53

In: 1.381+/-0.000 χ^2/NDF :5939888.1/47

Out: 1.418+/-0.000 χ^2/NDF :7147807.1/52

All: 1.400+/-0.000 χ^2/NDF : 13101398.4/100

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.389 $\pm$ 30.020 χ^2 /NDF: 21.1/24

Left Out: 15.770 $\pm$ 21.479 χ^2 /NDF:17.1/23

Right Out: -26.395 $\pm$ 30.482 χ^2 /NDF: 23.4/27

Left In: 43.905 $\pm$ 21.600 χ^2 /NDF:31.1/22

Left: 29.758 $\pm$ 15.231 χ^2 /NDF: 49.0/46

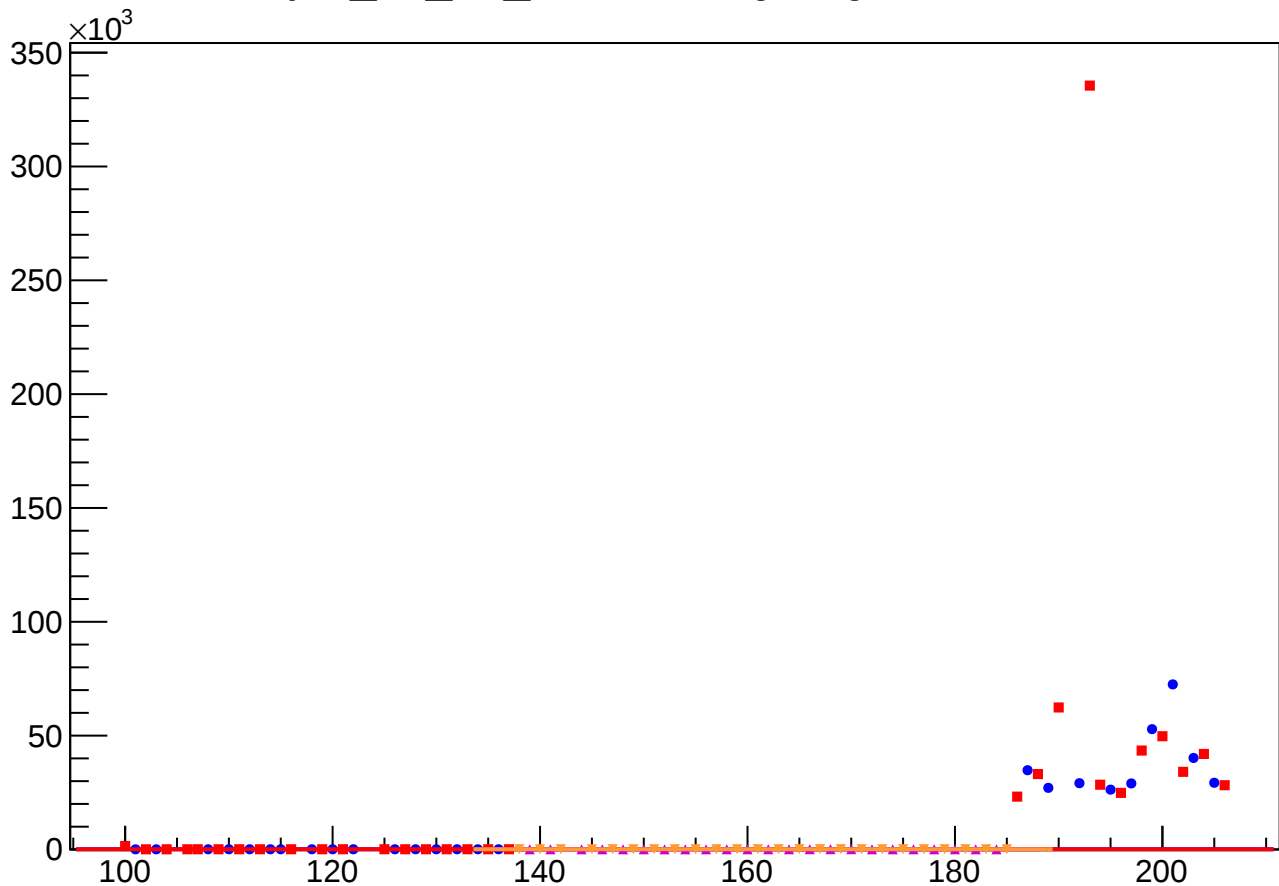
Right: -9.246 $\pm$ 21.389 χ^2 /NDF: 45.1/52

In: 31.449 $\pm$ 17.533 χ^2 /NDF:53.2/47

Out: 1.780 $\pm$ 17.558 χ^2 /NDF:41.7/51

All: 16.635 $\pm$ 12.407 χ^2 /NDF: 96.3/99

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.090 $\pm$ 0.021 χ^2 /NDF: 4863712.6/24

Left Out: 89.740 $\pm$ 0.015 χ^2 /NDF: 465842.6/23

Right Out: 79.403 $\pm$ 0.022 χ^2 /NDF: 5803654.2/28

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

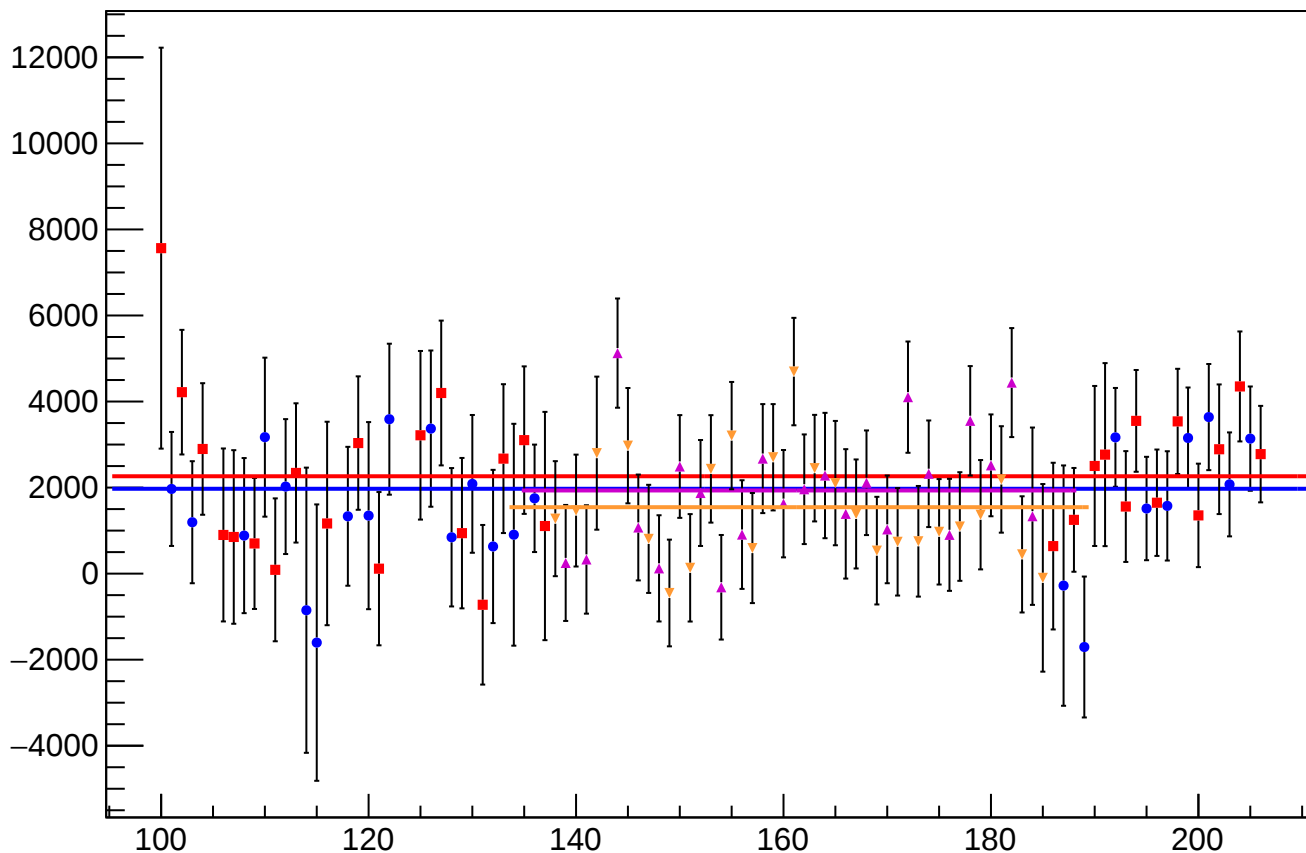
Right: 77.721 $\pm$ 0.015 χ^2 /NDF: 10679363.3/53

In: 85.027 $\pm$ 0.012 χ^2 /NDF: 5644618.2/47

Out: 86.310 $\pm$ 0.012 χ^2 /NDF: 6423174.5/52

All: 85.668 $\pm$ 0.009 χ^2 /NDF: 12073136.9/100

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1972.218 $\pm$ 305.825 χ^2 /NDF: 16.8/24

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

Right Out: 2263.177 $\pm$ 286.038 χ^2 /NDF: 22.1/29

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

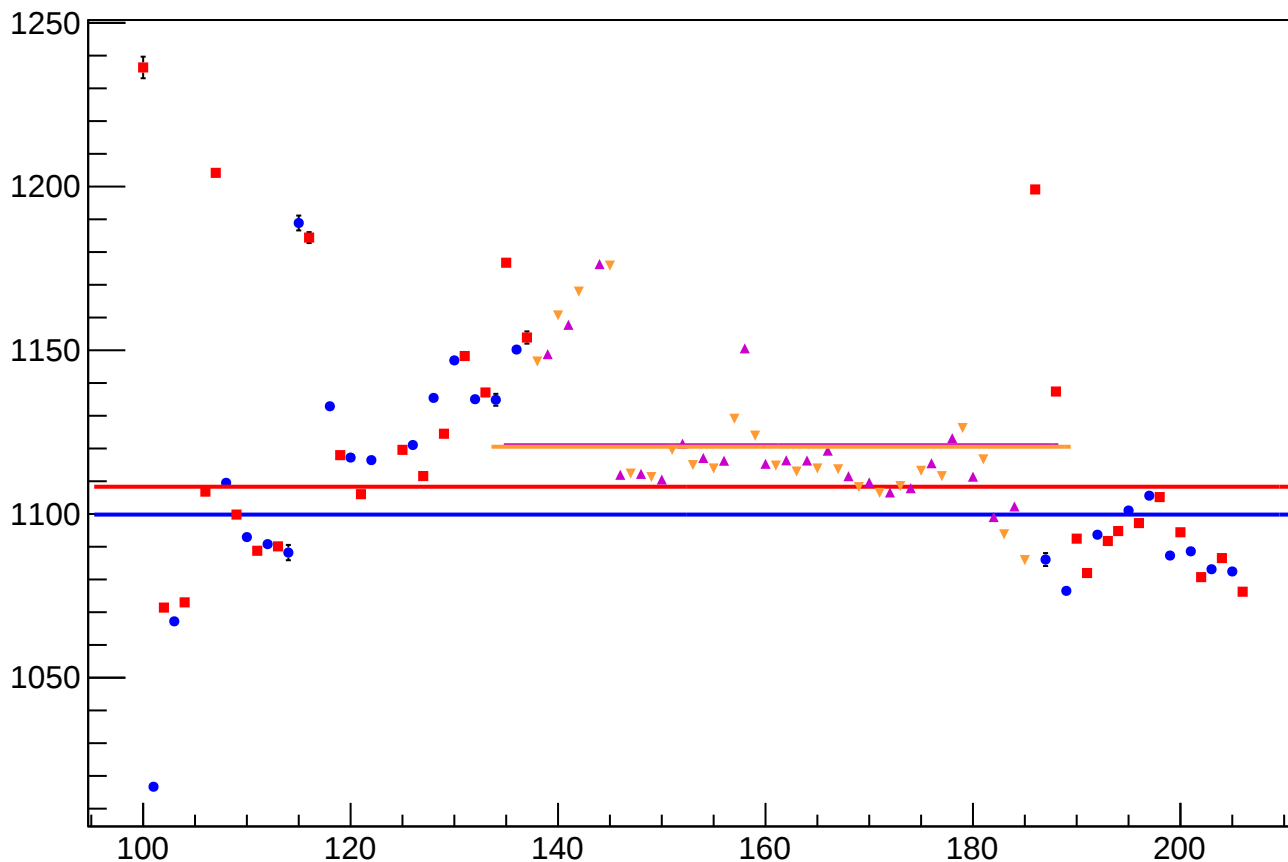
Right: 2127.413 $\pm$ 208.905 χ^2 /NDF: 39.3/54

In: 1950.035 $\pm$ 201.562 χ^2 /NDF:43.8/47

Out: 1877.935 $\pm$ 194.895 χ^2 /NDF:45.4/53

All: 1912.773 $\pm$ 140.109 χ^2 /NDF: 89.3/101

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1099.816 $\pm$ 0.216 χ^2 /NDF: 20927.8/24

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

Right Out: 1108.326 $\pm$ 0.202 χ^2 /NDF: 26574.8/29

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

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

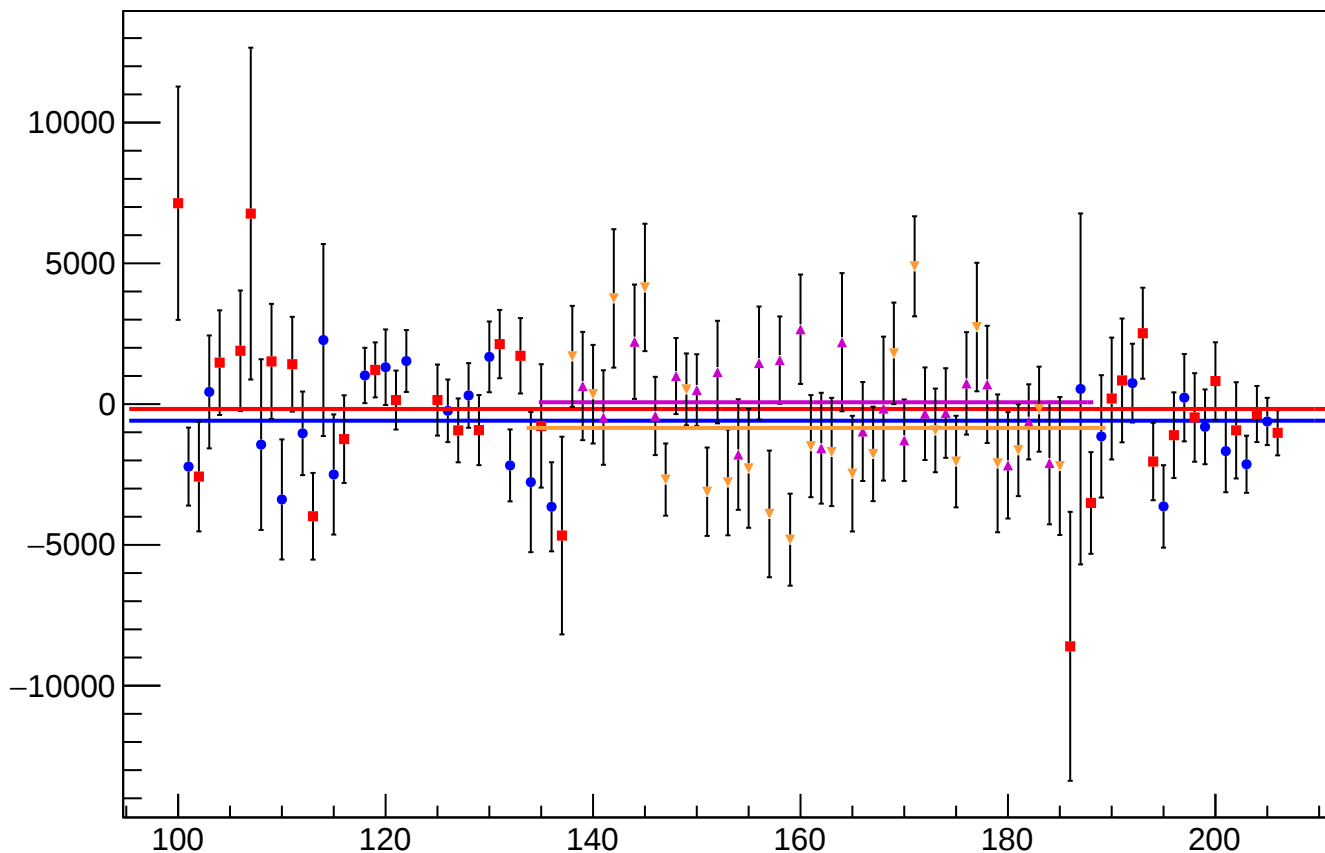
Right: 1104.355 $\pm$ 0.148 χ^2 /NDF: 48328.5/54

In: 1111.793 $\pm$ 0.143 χ^2 /NDF:35992.7/47

Out: 1114.871 $\pm$ 0.138 χ^2 /NDF:38782.2/53

All: 1113.384 $\pm$ 0.099 χ^2 /NDF: 75016.0/101

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -589.592 ± 280.494 $\chi^2/\text{NDF}: 32.0/24$

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

Right Out: -171.657 ± 269.428 $\chi^2/\text{NDF}: 39.9/29$

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

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

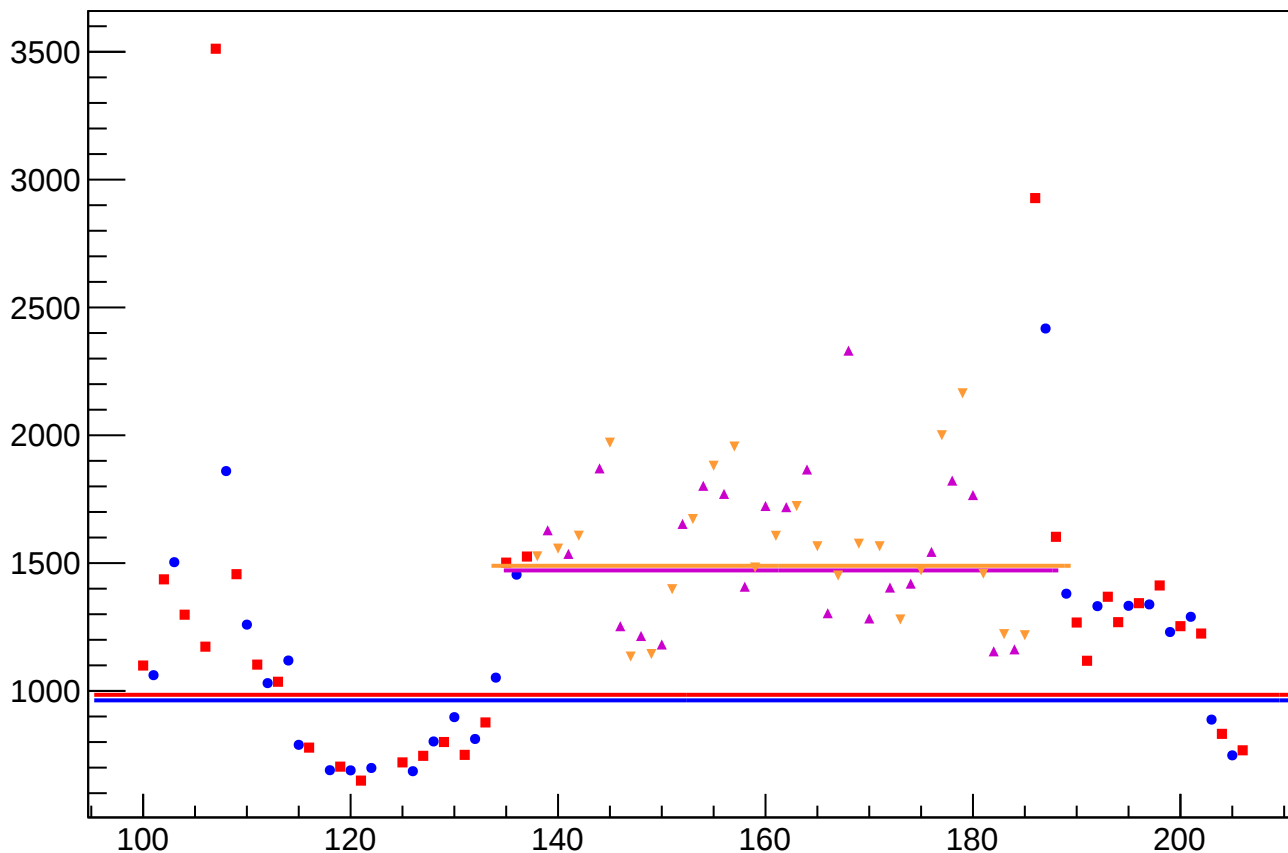
Right: -372.218 ± 194.309 $\chi^2/\text{NDF}: 73.0/54$

In: -340.998 ± 220.979 $\chi^2/\text{NDF}: 46.2/47$

Out: -412.426 ± 215.952 $\chi^2/\text{NDF}: 85.3/53$

All: -377.534 ± 154.448 $\chi^2/\text{NDF}: 131.6/101$

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 963.086+/-0.198 χ^2/NDF : 2026635.9/24

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

Right Out: 984.831+/-0.191 χ^2/NDF : 2914061.5/29

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

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

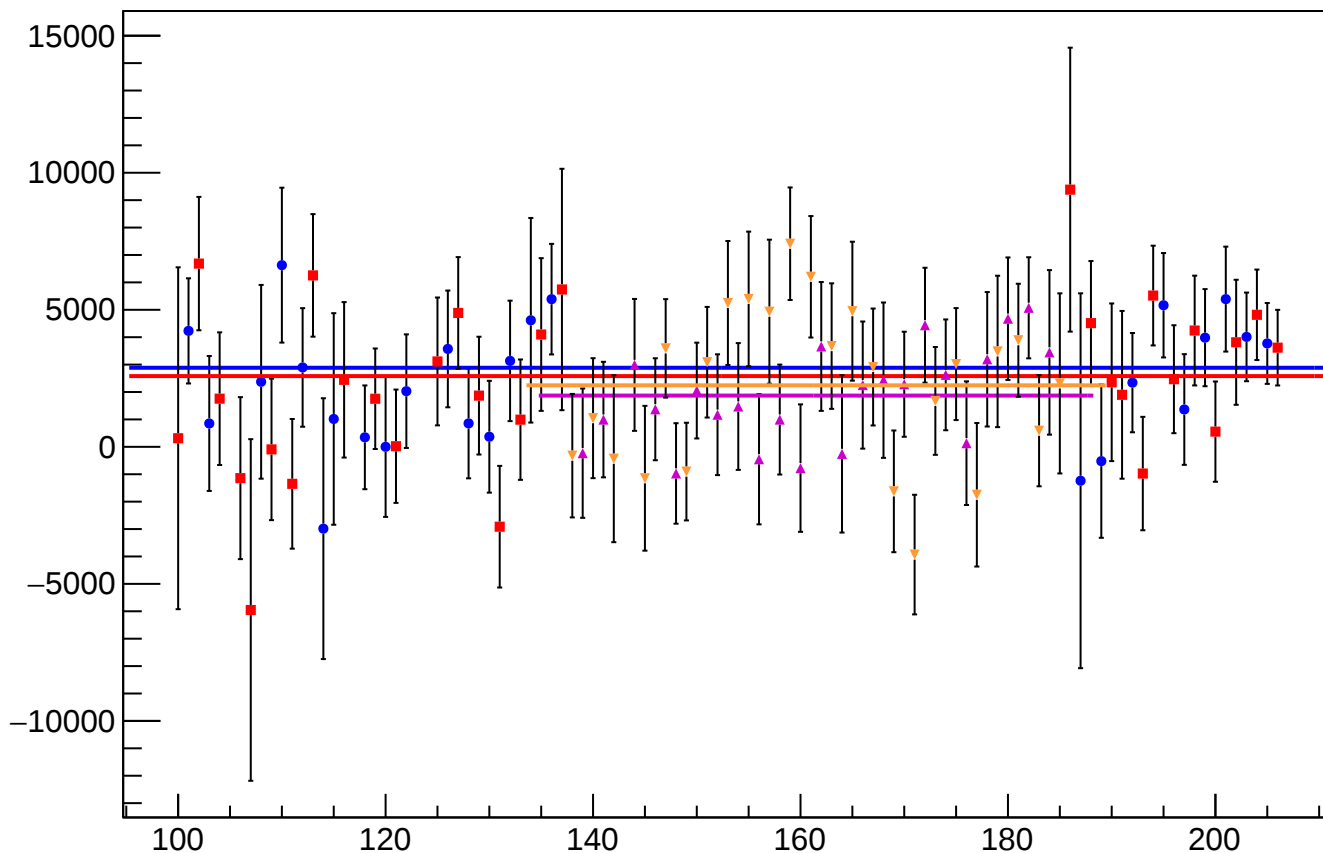
Right: 974.396+/-0.137 χ^2/NDF : 4946948.7/54

In: 1155.909+/-0.156 χ^2/NDF :5623471.9/47

Out: 1165.287+/-0.153 χ^2/NDF :6432457.7/53

All: 1160.706+/-0.109 χ^2/NDF : 12057772.1/100

asym_usl_mean vs Slug, Sign Corrected



Right In: 2884.717+/-435.446 χ^2/NDF : 19.2/24

Left Out: 2244.415+/-456.474 χ^2/NDF : 38.6/23

Right Out: 2580.819+/-414.905 χ^2/NDF : 36.4/29

Left In: 1869.792+/-455.465 χ^2/NDF : 14.9/22

Left: 2056.689+/-322.419 χ^2/NDF : 53.8/46

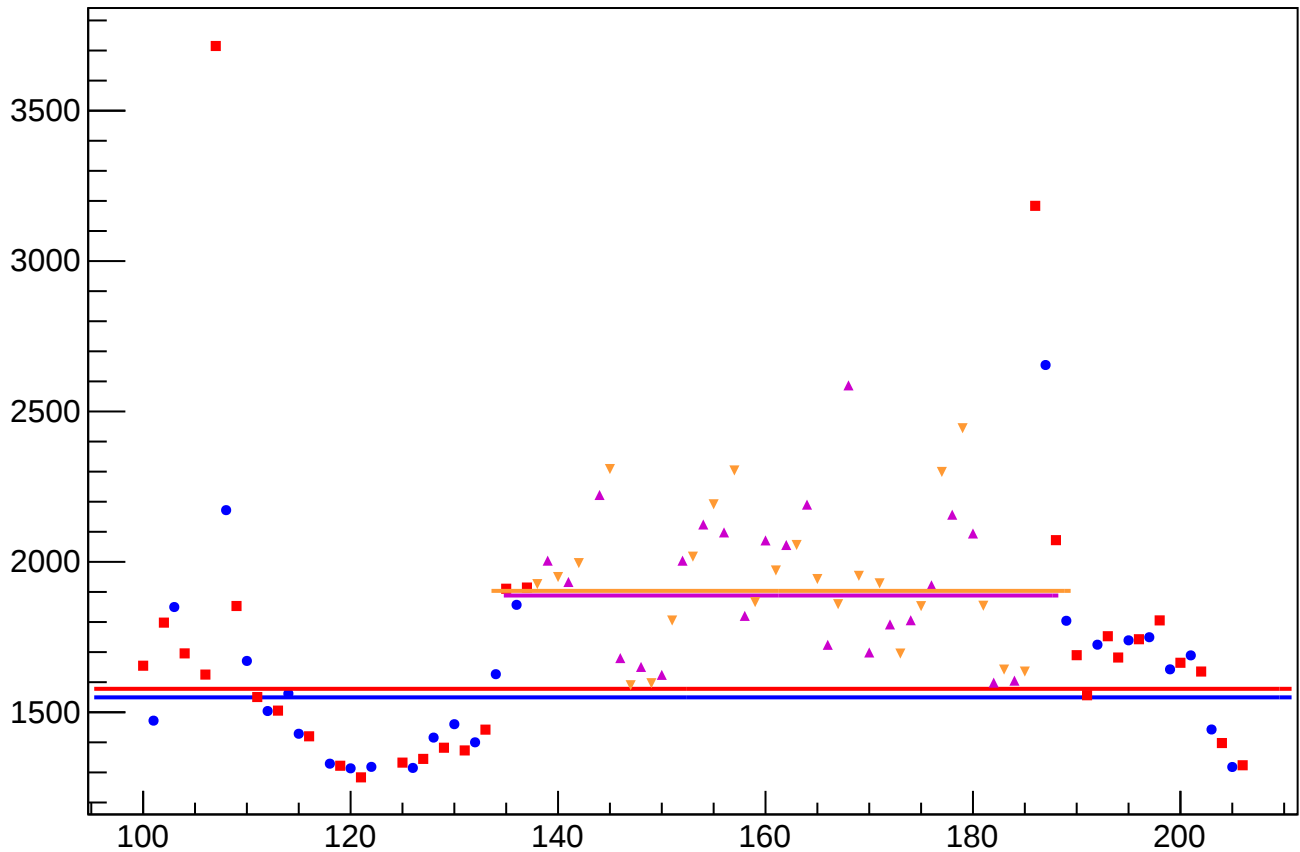
Right: 2725.432+/-300.381 χ^2/NDF : 55.9/54

In: 2400.049+/-314.746 χ^2/NDF : 36.7/47

Out: 2428.629+/-307.029 χ^2/NDF : 75.3/53

All: 2414.694+/-219.780 χ^2/NDF : 112.0/101

asym_usl_rms vs Slug, Sign Corrected



Right In: 1549.550+/-0.308 χ^2/NDF : 465198.3/24

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

Right Out: 1577.951+/-0.293 χ^2/NDF : 946340.8/29

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

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

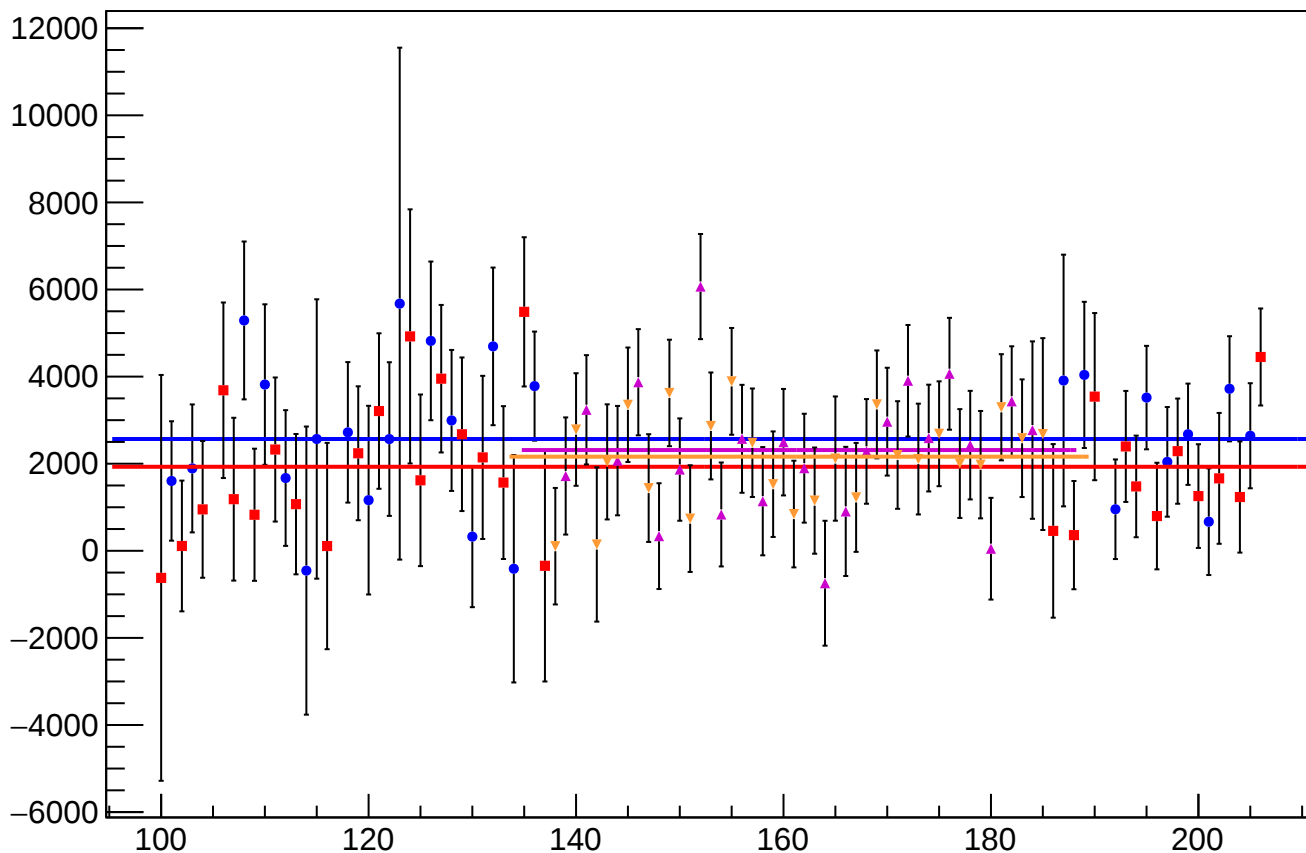
Right: 1564.436+/-0.212 χ^2/NDF : 1415998.5/54

In: 1711.231+/-0.223 χ^2/NDF : 1547162.1/47

Out: 1725.267+/-0.217 χ^2/NDF : 1965451.8/53

All: 1718.423+/-0.155 χ^2/NDF : 3514651.7/100

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2567.288+/-306.370 χ^2/NDF : 19.6/25

Left Out: 2161.427+/-257.518 χ^2/NDF : 15.1/24

Right Out: 1929.635+/-287.389 χ^2/NDF : 22.7/29

Left In: 2313.505+/-264.429 χ^2/NDF : 31.3/22

Left: 2235.453+/-184.488 χ^2/NDF : 46.5/47

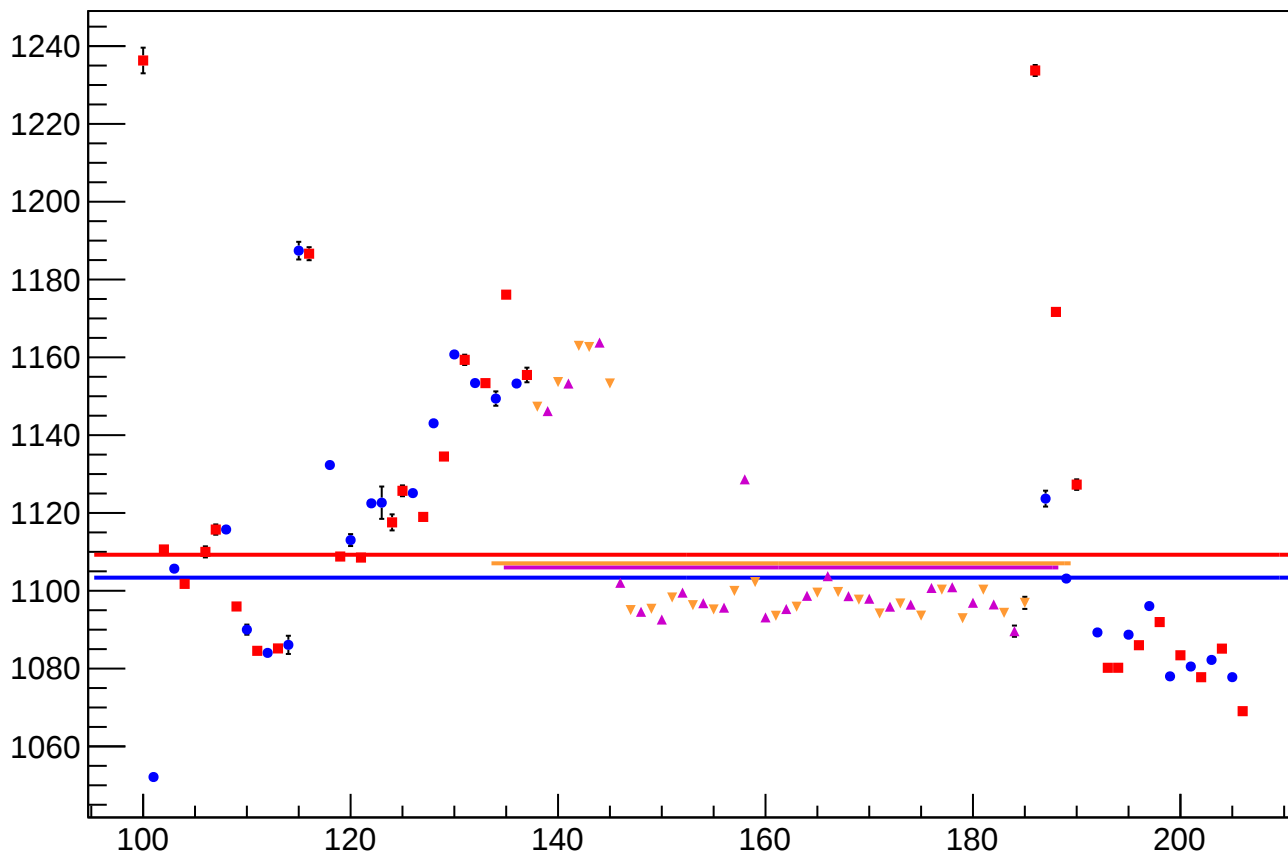
Right: 2228.099+/-209.604 χ^2/NDF : 44.6/55

In: 2421.849+/-200.179 χ^2/NDF : 51.2/48

Out: 2058.200+/-191.787 χ^2/NDF : 38.2/54

All: 2232.242+/-138.485 χ^2/NDF : 91.1/103

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1103.374 $\pm$ 0.217 χ^2 /NDF: 18924.3/25

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

Right Out: 1109.260 $\pm$ 0.203 χ^2 /NDF: 33287.6/29

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

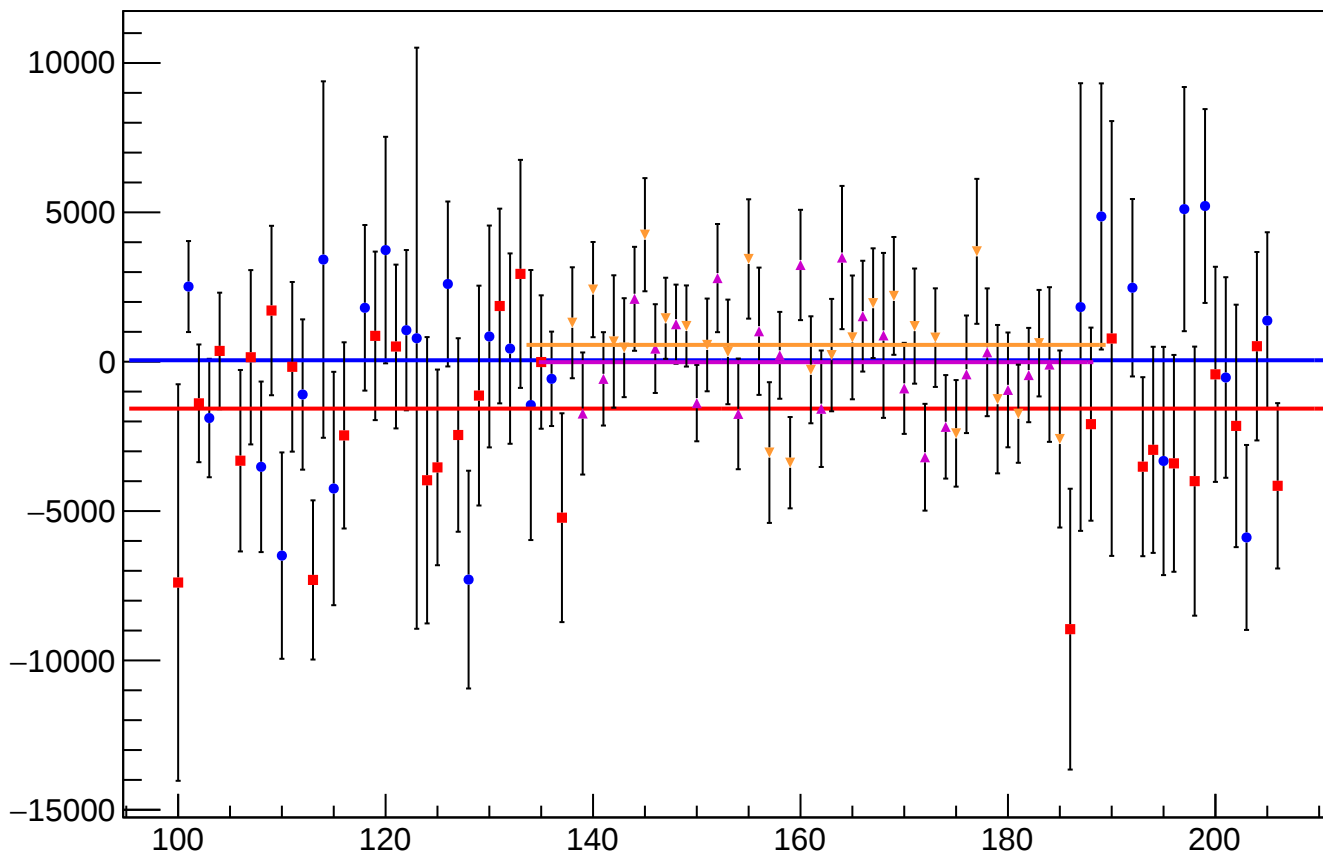
Right: 1106.505 $\pm$ 0.148 χ^2 /NDF: 52604.6/55

In: 1104.877 $\pm$ 0.142 χ^2 /NDF: 30559.7/48

Out: 1108.038 $\pm$ 0.136 χ^2 /NDF: 48528.4/54

All: 1106.525 $\pm$ 0.098 χ^2 /NDF: 79348.1/103

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 48.516 ± 574.347 χ^2/NDF : 27.8/25

Left Out: 563.282 ± 360.901 χ^2/NDF : 26.8/24

Right Out: -1570.004 ± 566.103 χ^2/NDF : 20.0/29

Left In: -15.520 ± 366.854 χ^2/NDF : 20.1/22

Left: 278.615 ± 257.275 χ^2/NDF : 48.2/47

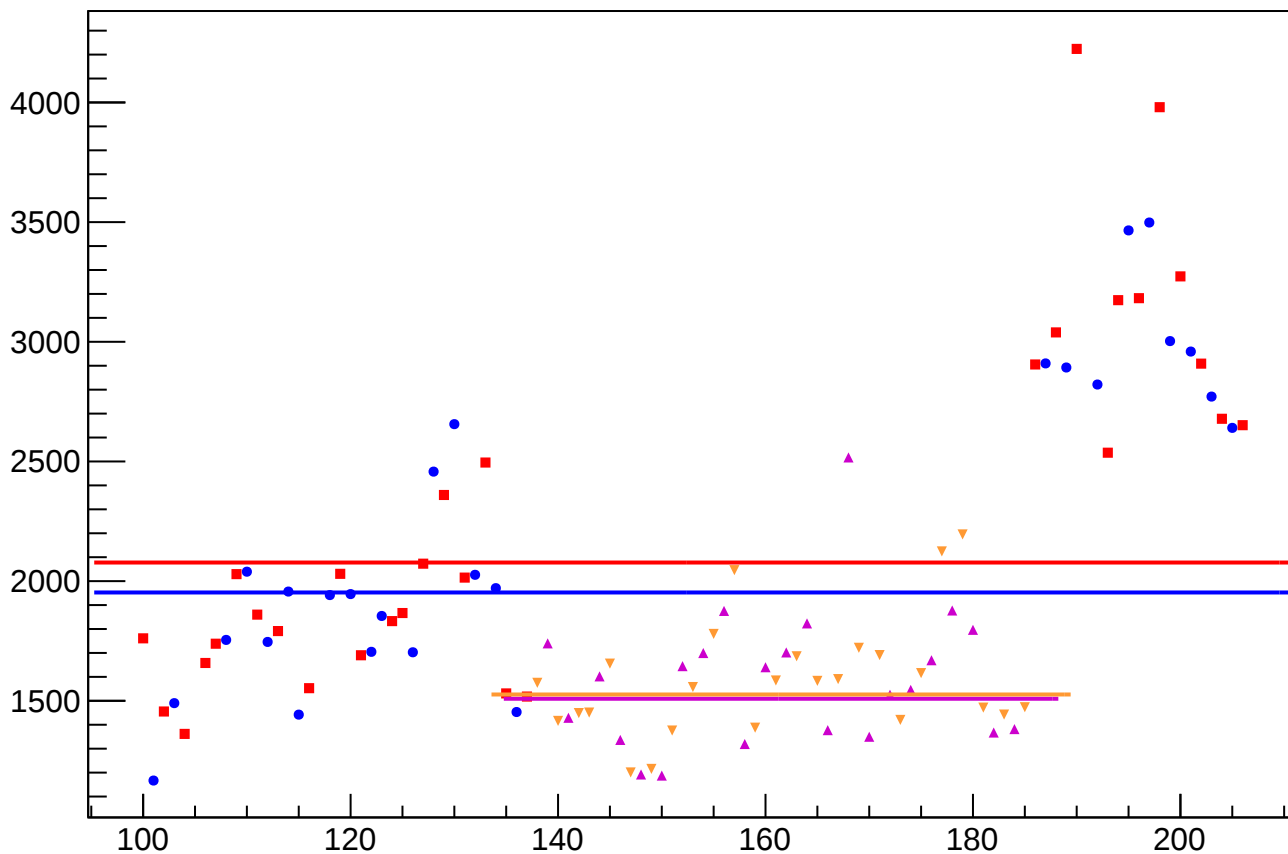
Right: -772.443 ± 403.178 χ^2/NDF : 51.9/55

In: 3.035 ± 309.169 χ^2/NDF : 48.0/48

Out: -53.195 ± 304.319 χ^2/NDF : 56.9/54

All: -25.524 ± 216.880 χ^2/NDF : 104.9/103

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1952.607+/-0.406

χ^2/NDF : 2573639.9/25

Left Out: 1526.391+/-0.255

χ^2/NDF : 753714.4/24

Right Out: 2077.759+/-0.400

χ^2/NDF : 2559556.8/29

Left In: 1508.581+/-0.259

χ^2/NDF : 931684.8/22

Left: 1517.632+/-0.182

χ^2/NDF : 1687794.7/47

Right: 2016.088+/-0.285

χ^2/NDF : 5181364.3/55

In: 1637.243+/-0.219

χ^2/NDF : 4354314.6/48

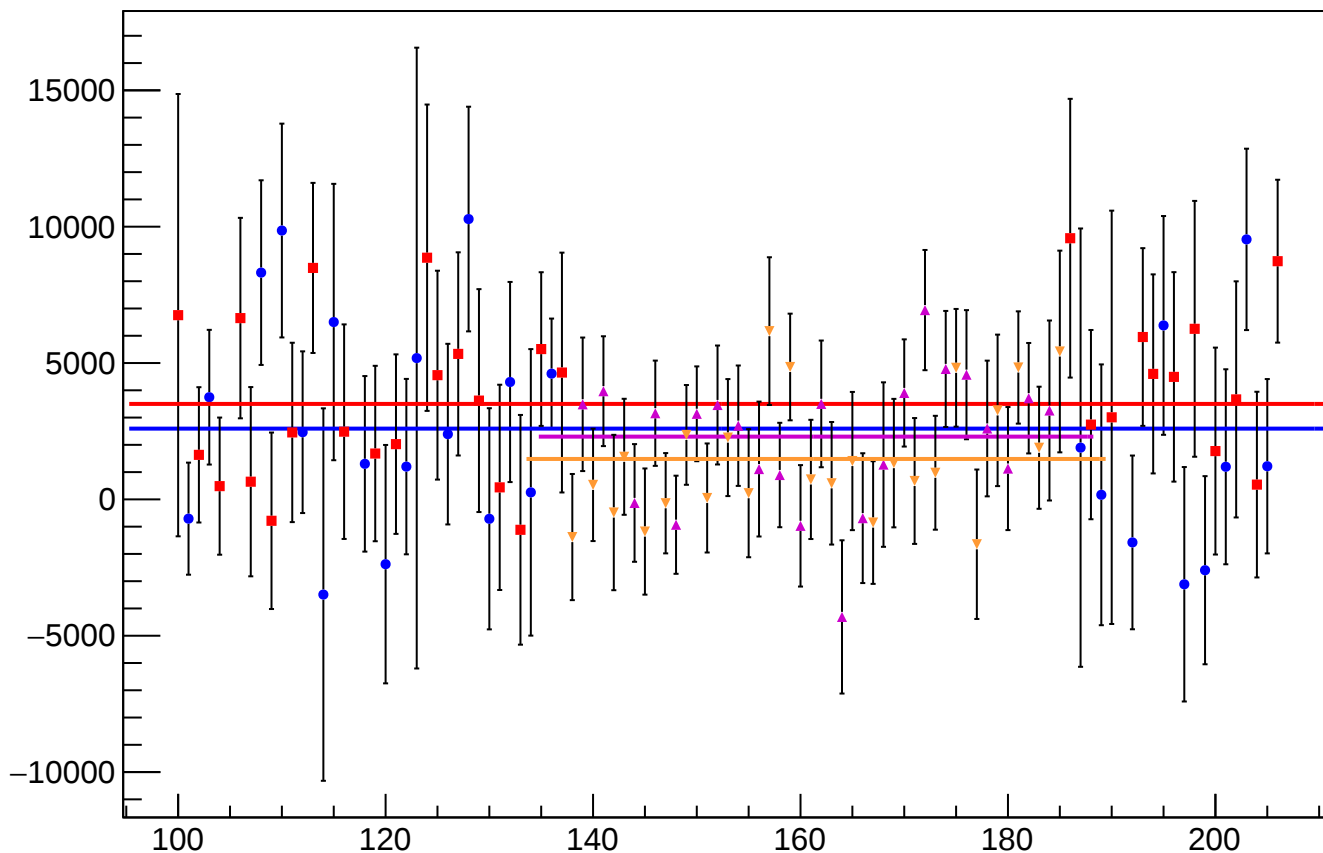
Out: 1685.725+/-0.215

χ^2/NDF : 4662244.0/54

All: 1661.867+/-0.153

χ^2/NDF : 9041538.2/100

asym_usr_mean vs Slug, Sign Corrected



Right In: 2594.891 $\pm$ 678.610 χ^2 /NDF: 29.3/25

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

Right Out: 3500.581 $\pm$ 657.078 χ^2 /NDF: 18.8/29

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

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

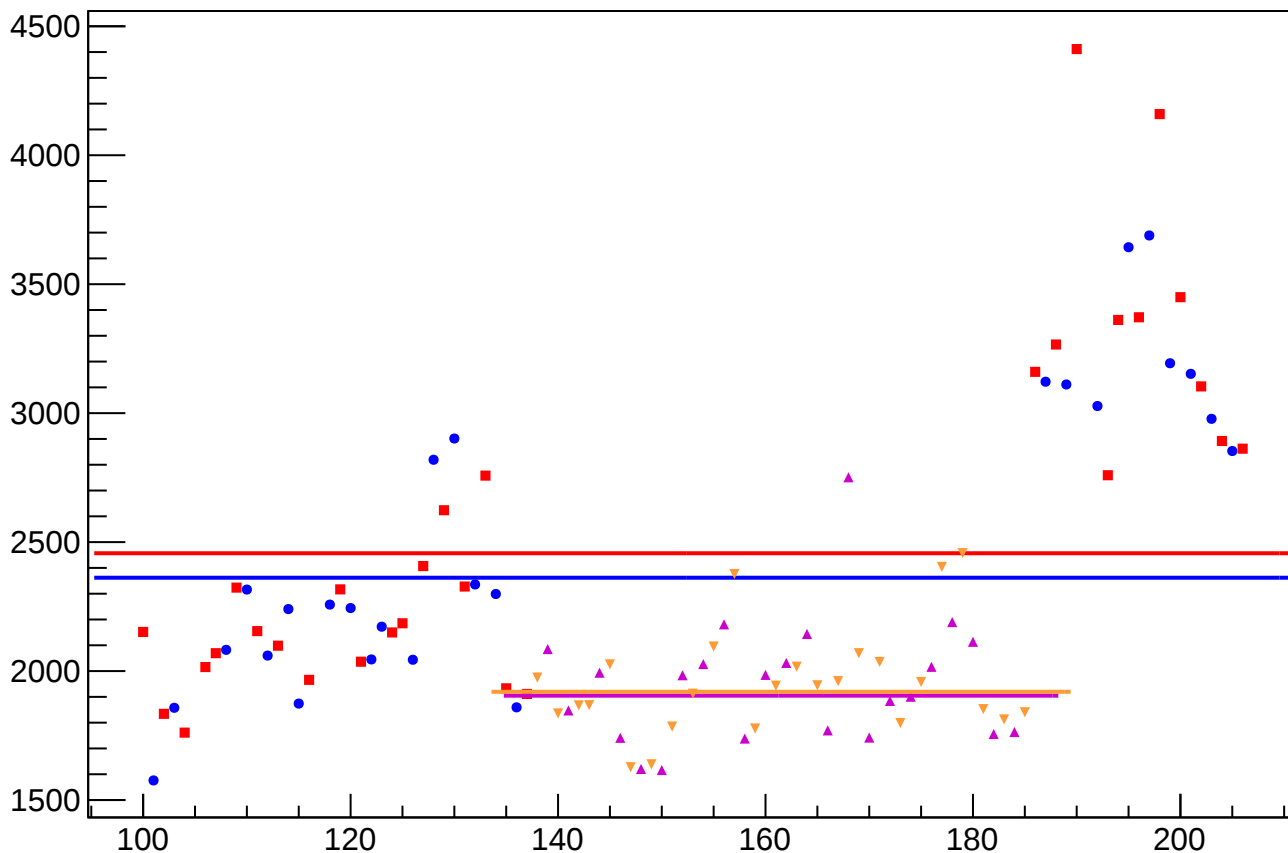
Right: 3062.332 $\pm$ 472.053 χ^2 /NDF: 49.1/55

In: 2393.430 $\pm$ 380.220 χ^2 /NDF:54.3/48

Out: 2126.695 $\pm$ 371.268 χ^2 /NDF:46.2/54

All: 2256.886 $\pm$ 265.635 χ^2 /NDF: 100.7/103

asym_usr_rms vs Slug, Sign Corrected



Right In: 2361.957+/-0.480 χ^2/NDF : 1534823.3/25

Left Out: 1919.732+/-0.318 χ^2/NDF : 366218.1/24

Right Out: 2456.882+/-0.465 χ^2/NDF : 1629876.6/29

Left In: 1904.629+/-0.325 χ^2/NDF : 447350.7/22

Left: 1912.331+/-0.227 χ^2/NDF : 814672.9/47

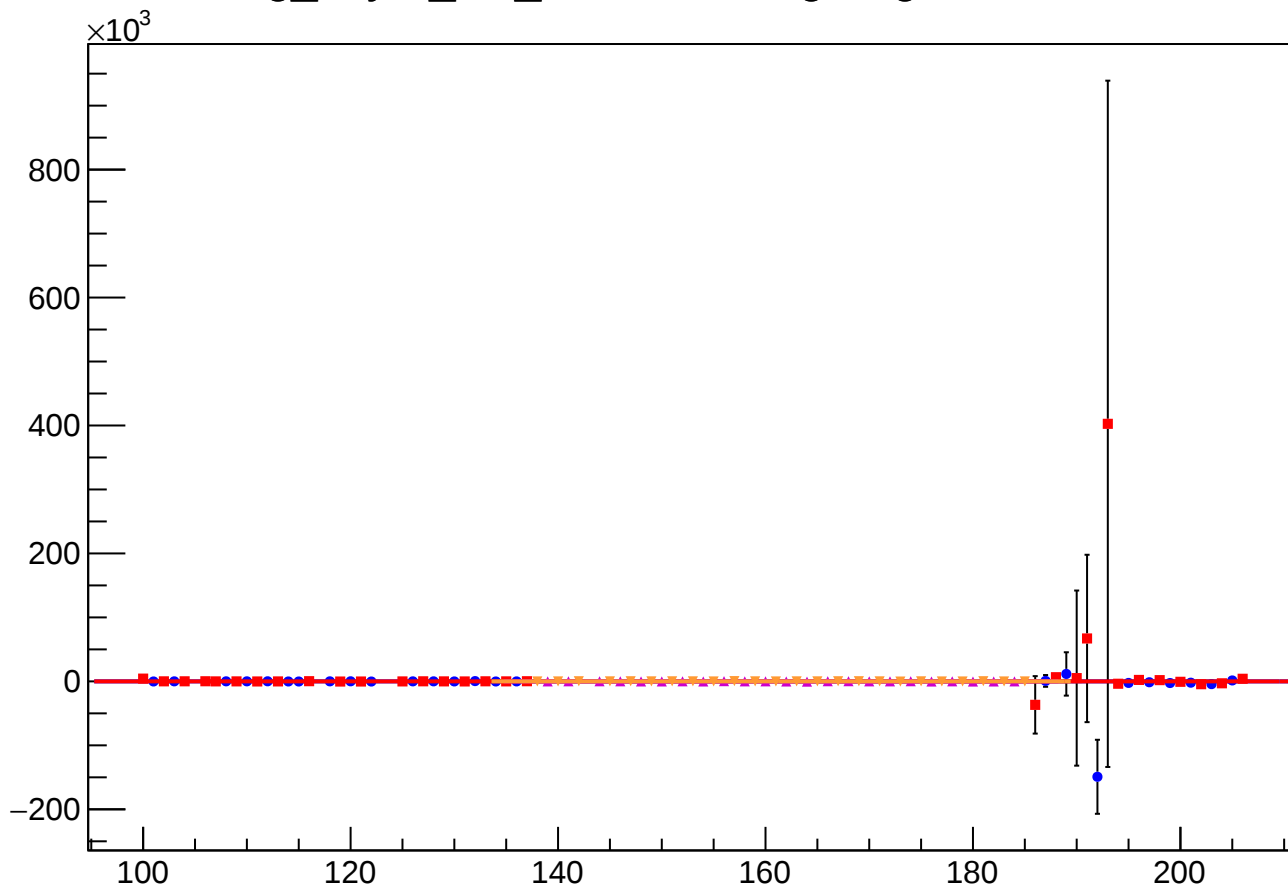
Right: 2410.950+/-0.334 χ^2/NDF : 3184897.4/55

In: 2048.197+/-0.269 χ^2/NDF : 2605358.0/48

Out: 2091.221+/-0.263 χ^2/NDF : 2905946.4/54

All: 2070.221+/-0.188 χ^2/NDF : 5524413.5/100

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -1.614 ± 36.763 $\chi^2/\text{NDF}: 25.4/24$

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

Right Out: 1.830 ± 36.747 $\chi^2/\text{NDF}: 19.5/29$

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

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

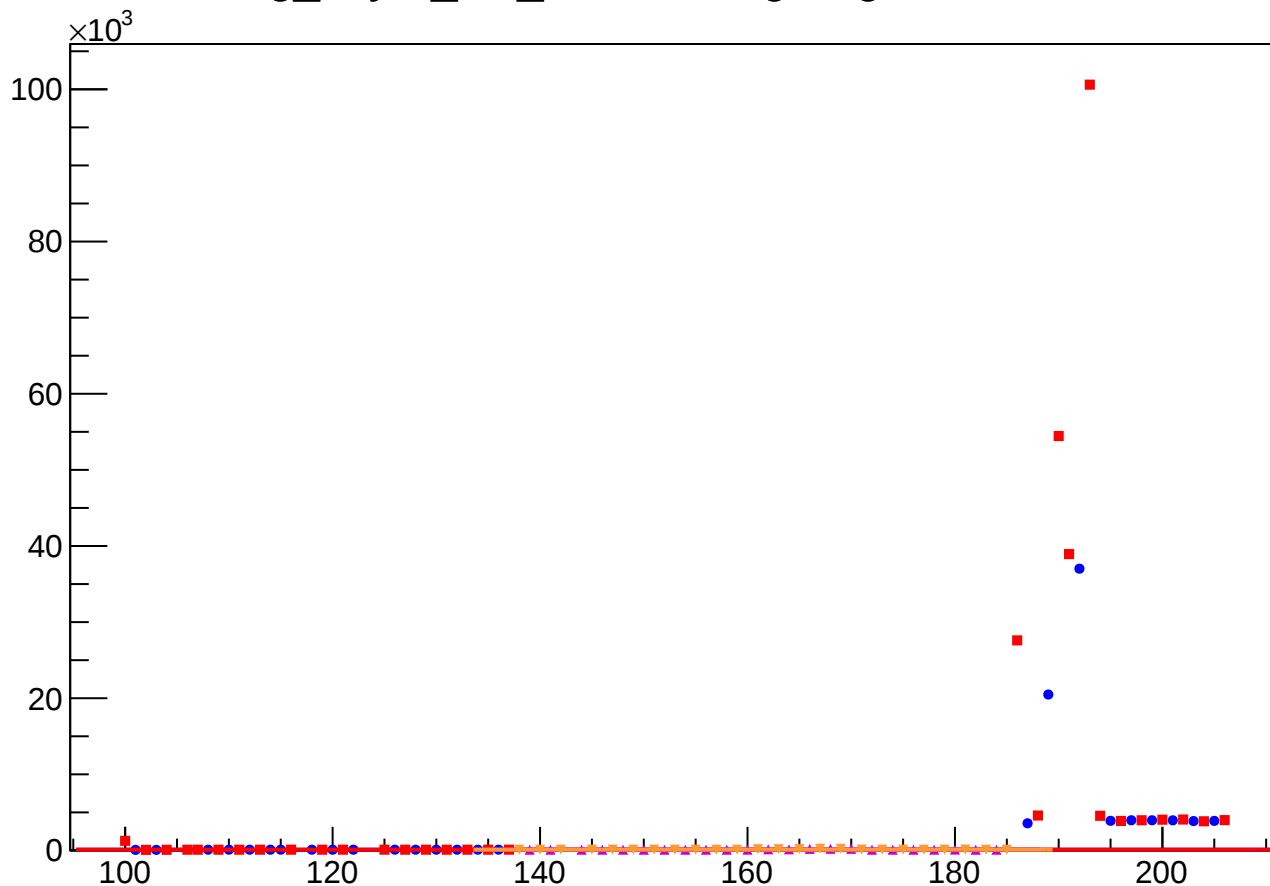
Right: 0.109 ± 25.990 $\chi^2/\text{NDF}: 44.8/54$

In: 15.830 ± 21.413 $\chi^2/\text{NDF}: 62.1/47$

Out: 8.734 ± 21.365 $\chi^2/\text{NDF}: 55.4/53$

All: 12.274 ± 15.124 $\chi^2/\text{NDF}: 117.6/101$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 95.765 $\pm$ 0.026 χ^2 /NDF: 11180968.5/24

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

Right Out: 98.228 $\pm$ 0.026 χ^2 /NDF: 12431916.1/29

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

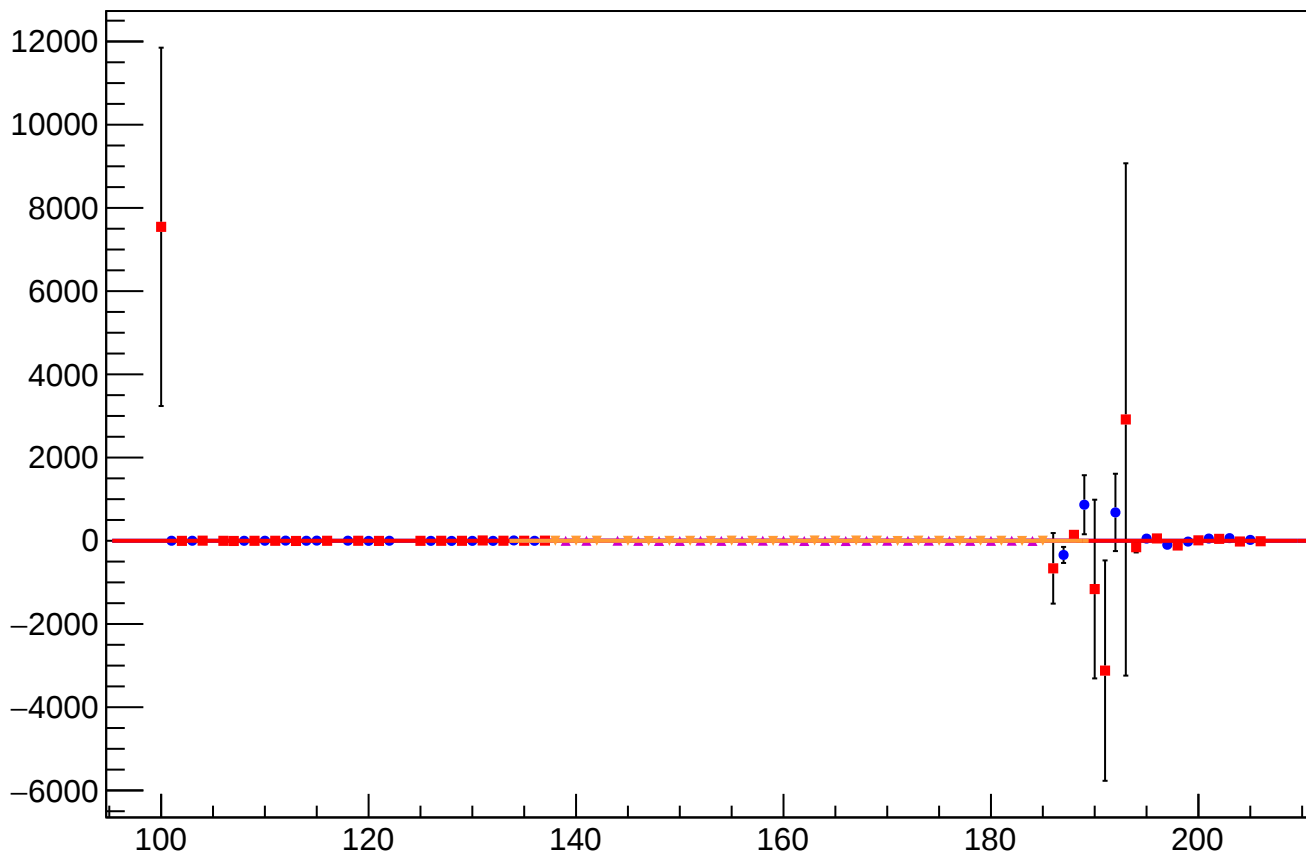
Right: 96.997 $\pm$ 0.018 χ^2 /NDF: 23617372.9/54

In: 103.633 $\pm$ 0.015 χ^2 /NDF: 12810632.0/47

Out: 104.736 $\pm$ 0.015 χ^2 /NDF: 13961669.2/53

All: 104.186 $\pm$ 0.011 χ^2 /NDF: 26774961.6/100

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.395+/-0.617 χ^2/NDF : 19.2/24

Left Out: -0.534+/-0.475 χ^2/NDF : 30.5/23

Right Out: -0.347+/-0.644 χ^2/NDF : 29.7/29

Left In: -0.067+/-0.485 χ^2/NDF : 25.0/22

Left: -0.306+/-0.339 χ^2/NDF : 56.0/46

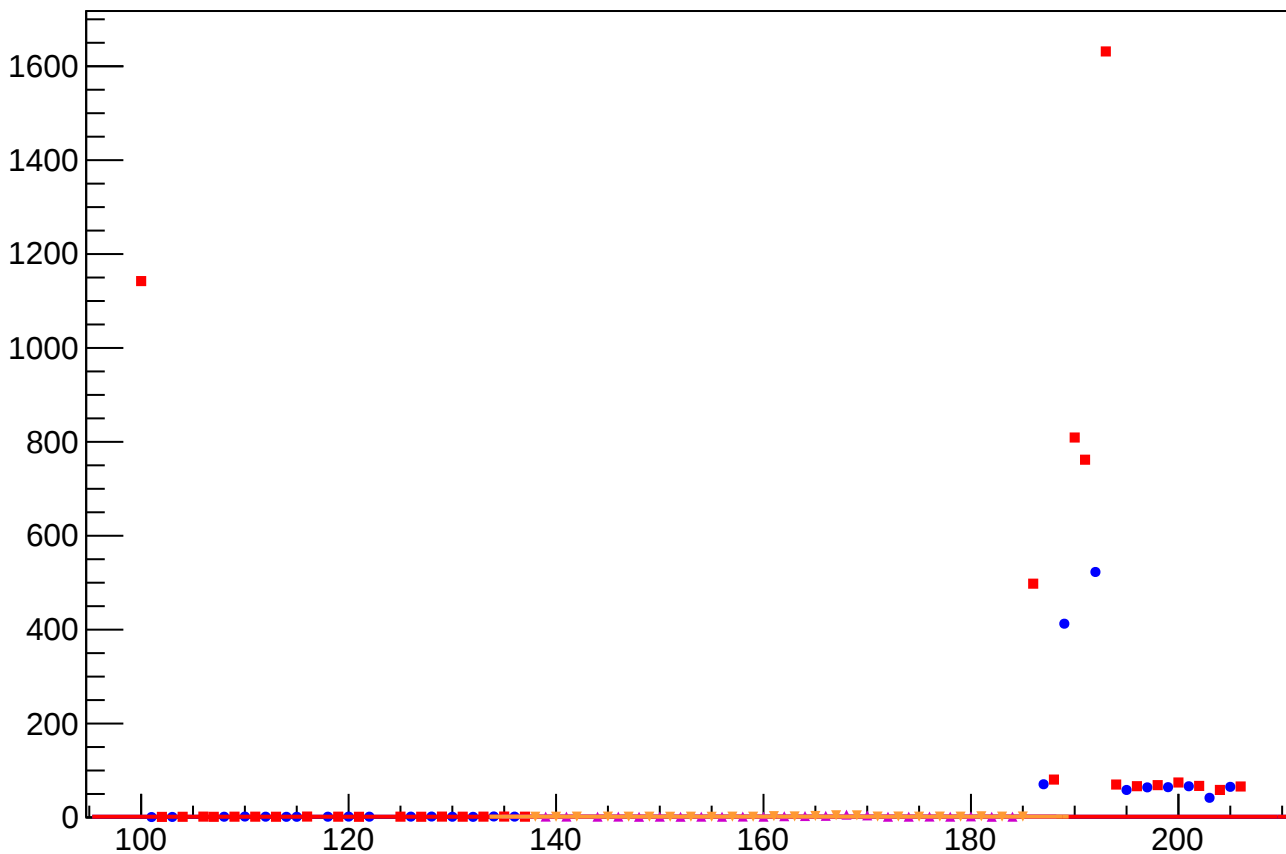
Right: 0.040+/-0.445 χ^2/NDF : 49.6/54

In: 0.109+/-0.381 χ^2/NDF : 44.6/47

Out: -0.468+/-0.382 χ^2/NDF : 60.3/53

All: -0.179+/-0.270 χ^2/NDF : 106.0/101

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.446+/-0.000 χ^2/NDF : 9718957.0/24

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

Right Out: 1.584+/-0.000 χ^2/NDF : 10943010.6/29

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

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

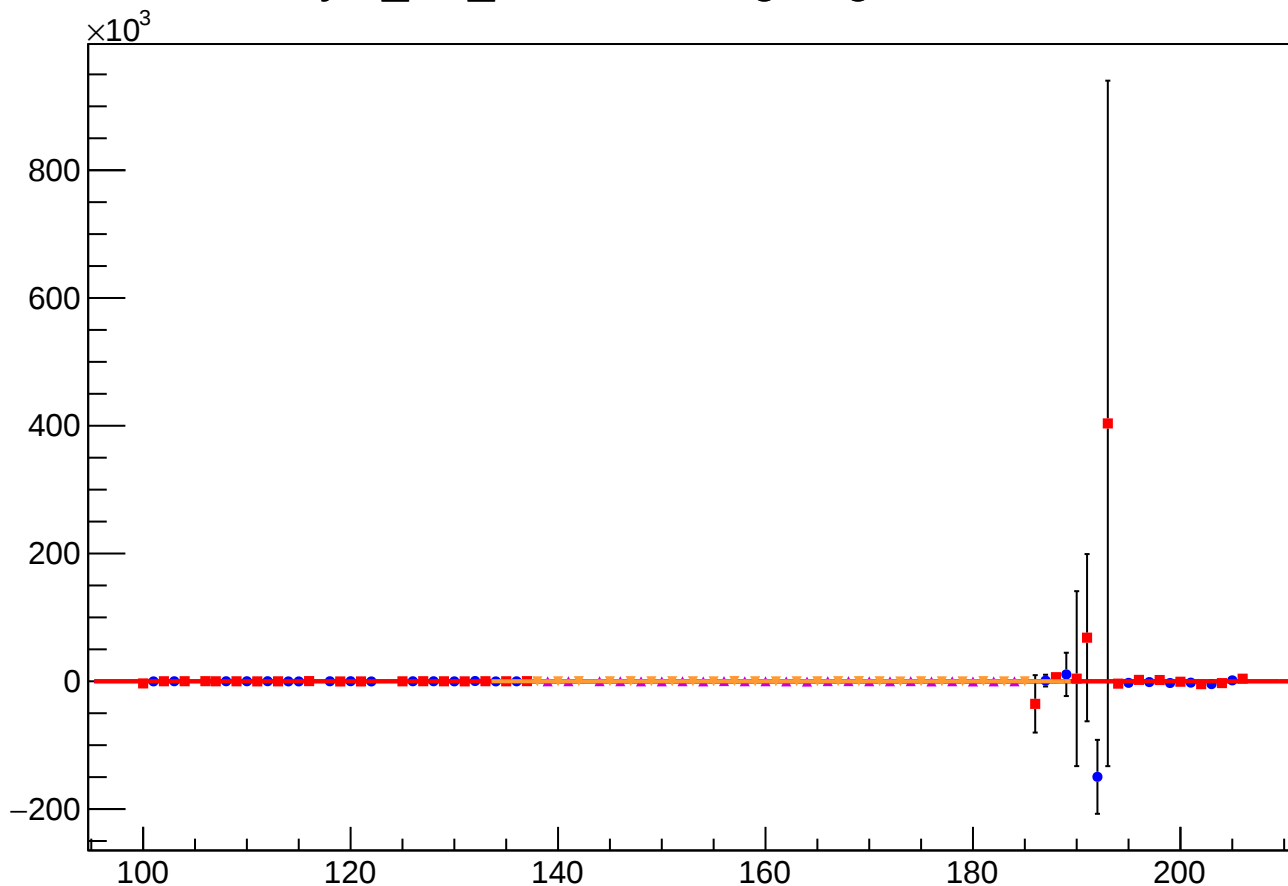
Right: 1.512+/-0.000 χ^2/NDF : 20710353.9/54

In: 1.666+/-0.000 χ^2/NDF :12054073.0/47

Out: 1.705+/-0.000 χ^2/NDF :12651977.4/53

All: 1.686+/-0.000 χ^2/NDF : 24716507.7/101

asym_dsl_mean vs Slug, Sign Corrected



Right In: -1.326 ± 36.773 χ^2/NDF : 25.6/24

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

Right Out: 1.595 ± 36.757 χ^2/NDF : 18.9/29

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

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

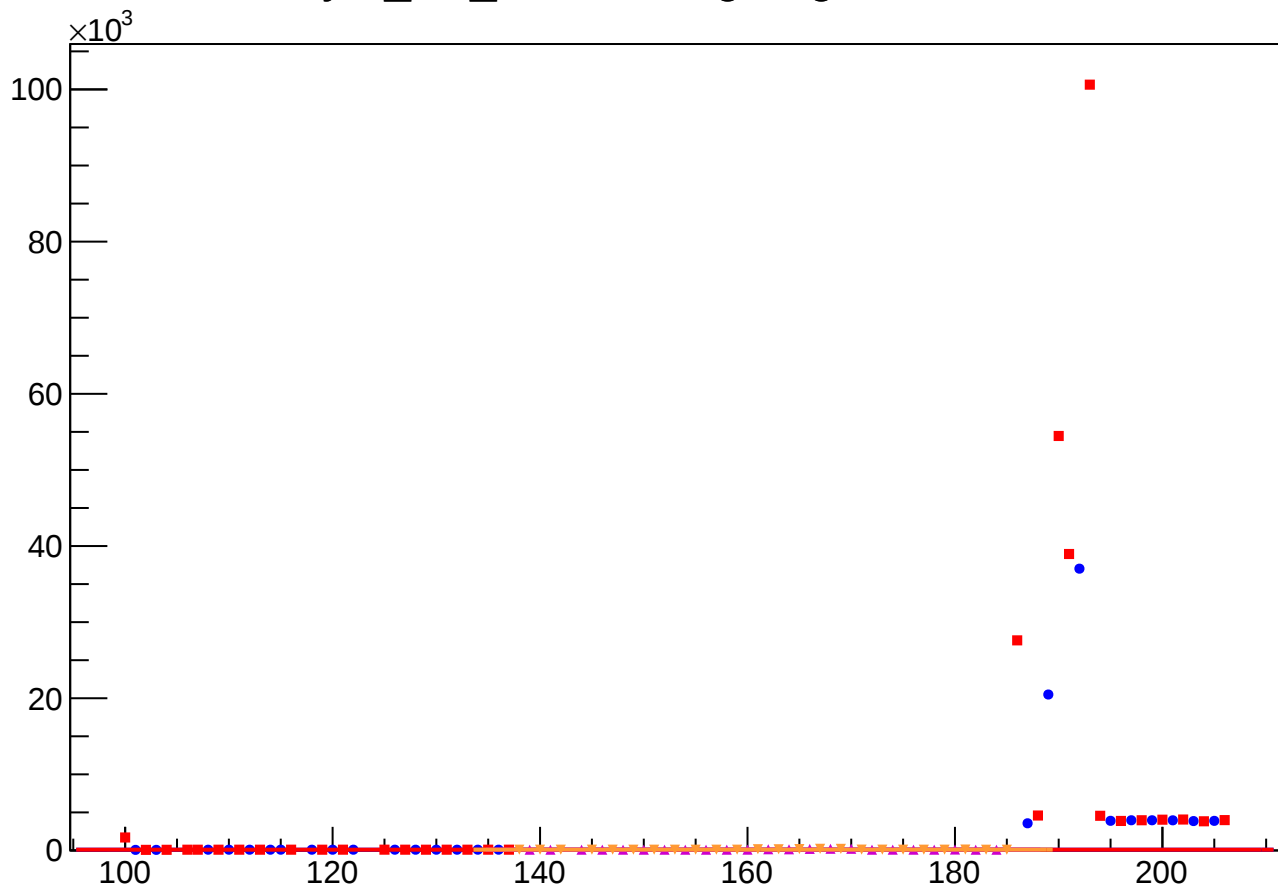
Right: 0.135 ± 25.997 χ^2/NDF : 44.5/54

In: 16.274 ± 21.420 χ^2/NDF : 61.7/47

Out: 9.110 ± 21.372 χ^2/NDF : 54.7/53

All: 12.684 ± 15.129 χ^2/NDF : 116.4/101

asym_dsl_rms vs Slug, Sign Corrected



Right In: 95.790 $\pm$ 0.026 χ^2 /NDF: 11180961.4/24

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

Right Out: 98.237 $\pm$ 0.026 χ^2 /NDF: 12437194.6/29

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

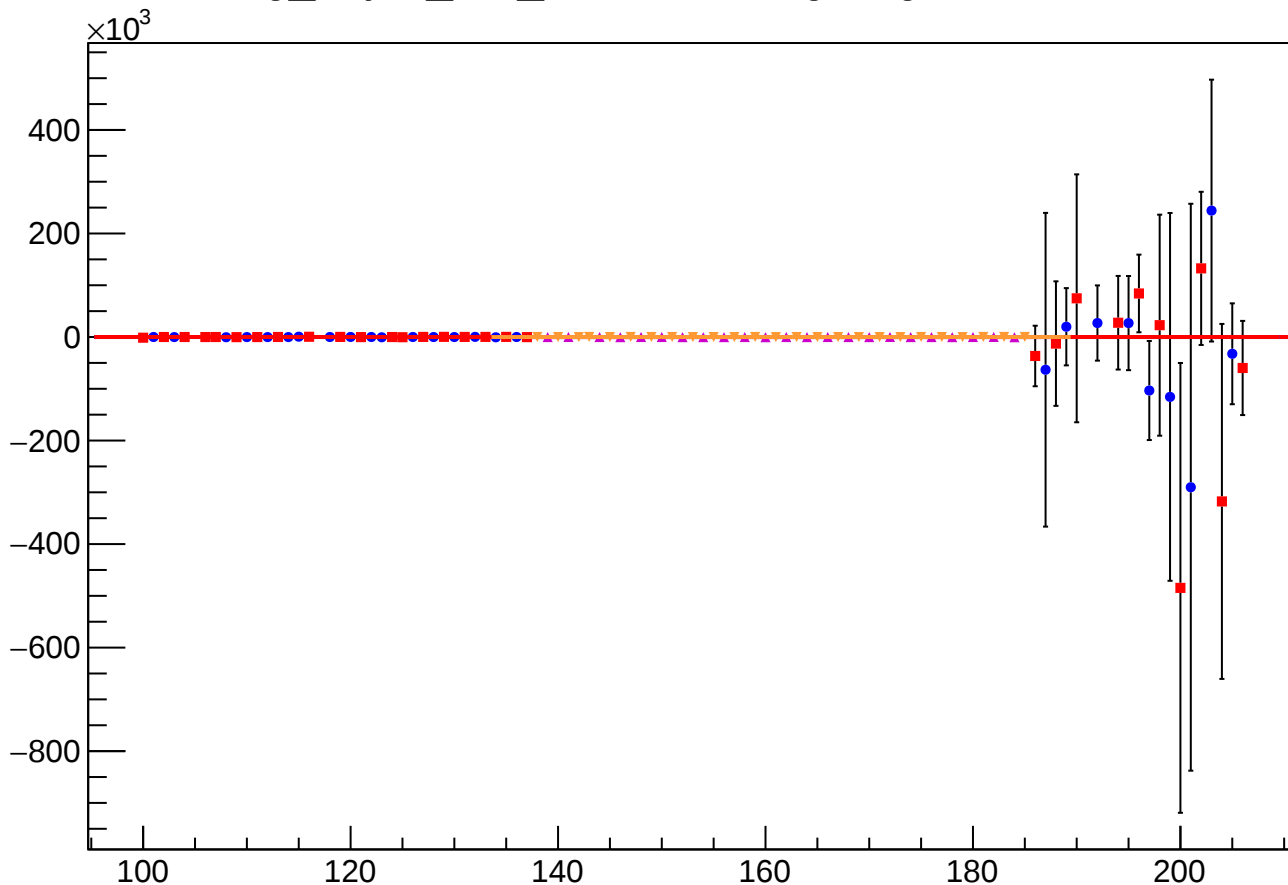
Right: 97.014 $\pm$ 0.018 χ^2 /NDF: 23622586.0/54

In: 103.661 $\pm$ 0.015 χ^2 /NDF: 12811993.7/47

Out: 104.759 $\pm$ 0.015 χ^2 /NDF: 13968697.5/53

All: 104.211 $\pm$ 0.011 χ^2 /NDF: 26783325.8/100

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.801 ± 46.841 χ^2/NDF : 17.4/25

Left Out: -12.829 ± 32.063 χ^2/NDF : 12.0/24

Right Out: 53.389 ± 47.775 χ^2/NDF : 20.6/28

Left In: -65.335 ± 32.944 χ^2/NDF : 19.3/22

Left: -38.371 ± 22.977 χ^2/NDF : 32.6/47

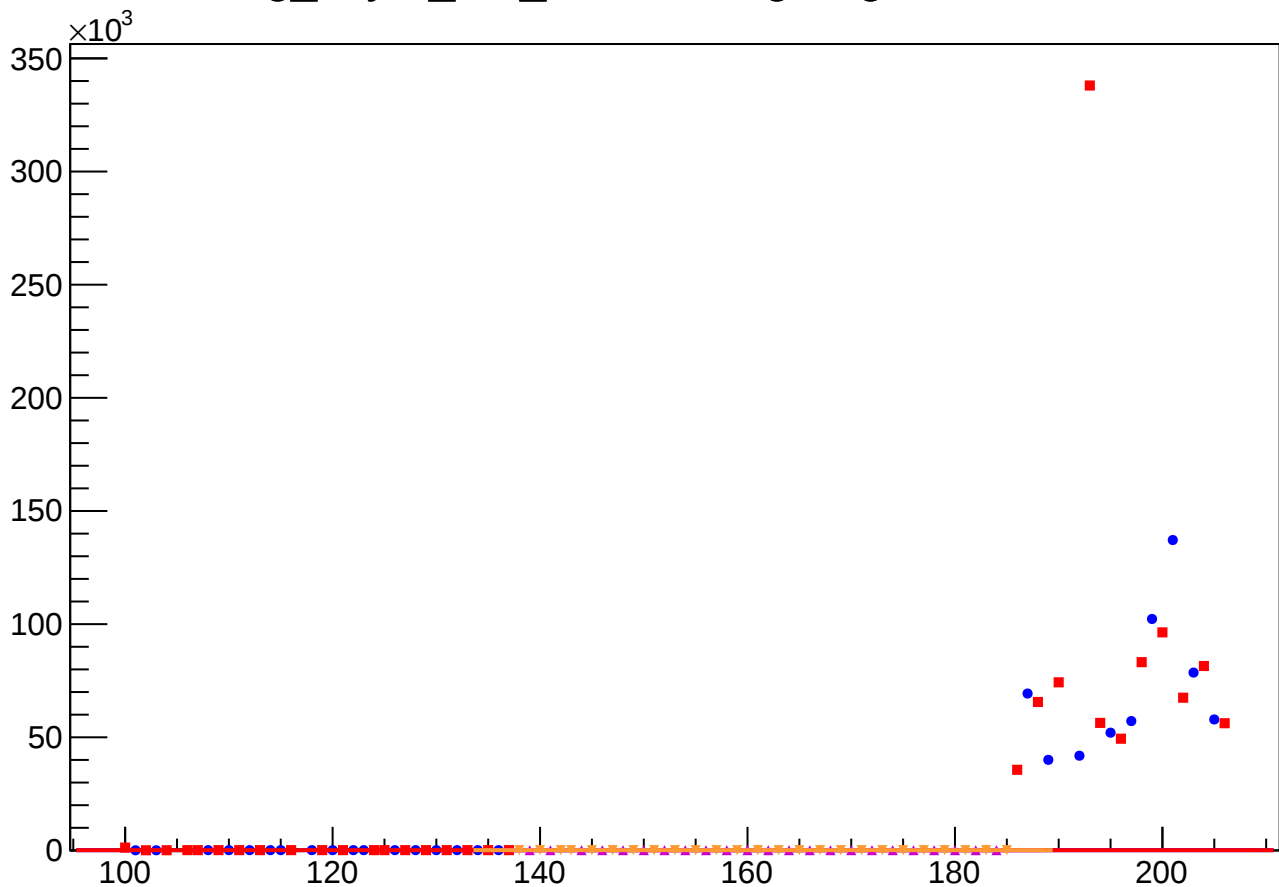
Right: 12.503 ± 33.447 χ^2/NDF : 39.4/54

In: -52.582 ± 26.947 χ^2/NDF : 37.1/48

Out: 7.734 ± 26.623 χ^2/NDF : 33.9/53

All: -22.060 ± 18.939 χ^2/NDF : 73.6/102

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.853 $\pm$ 0.033 χ^2 /NDF: 5201990.2/25

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

Right Out: 124.836 $\pm$ 0.034 χ^2 /NDF: 6059831.0/29

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

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

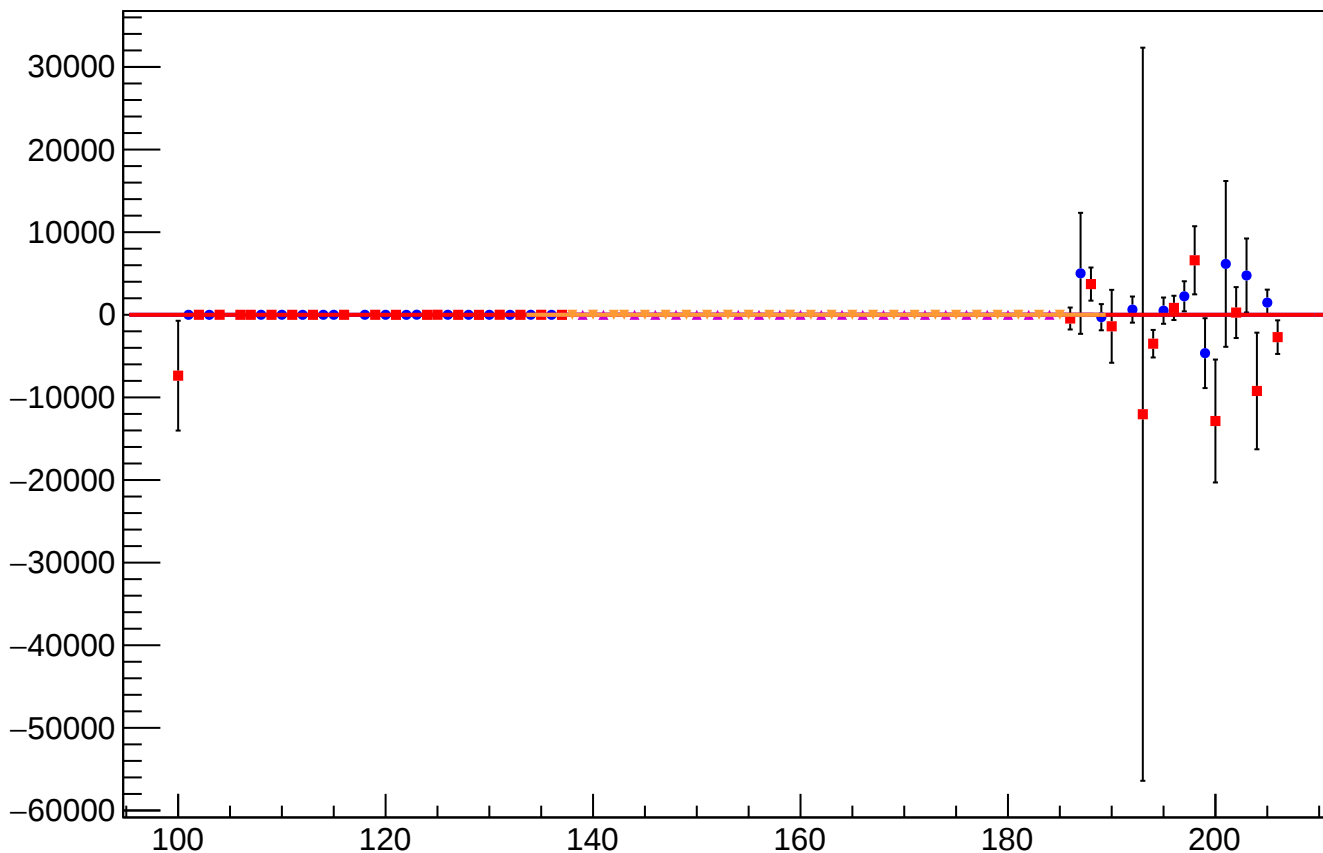
Right: 121.276 $\pm$ 0.024 χ^2 /NDF: 11283608.6/55

In: 131.202 $\pm$ 0.019 χ^2 /NDF:5445218.0/48

Out: 133.813 $\pm$ 0.019 χ^2 /NDF:6162696.1/54

All: 132.523 $\pm$ 0.013 χ^2 /NDF: 11617420.6/10

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.718 ± 0.810 χ^2/NDF : 18.1/25

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

Right Out: -0.639 ± 0.852 χ^2/NDF : 32.2/29

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

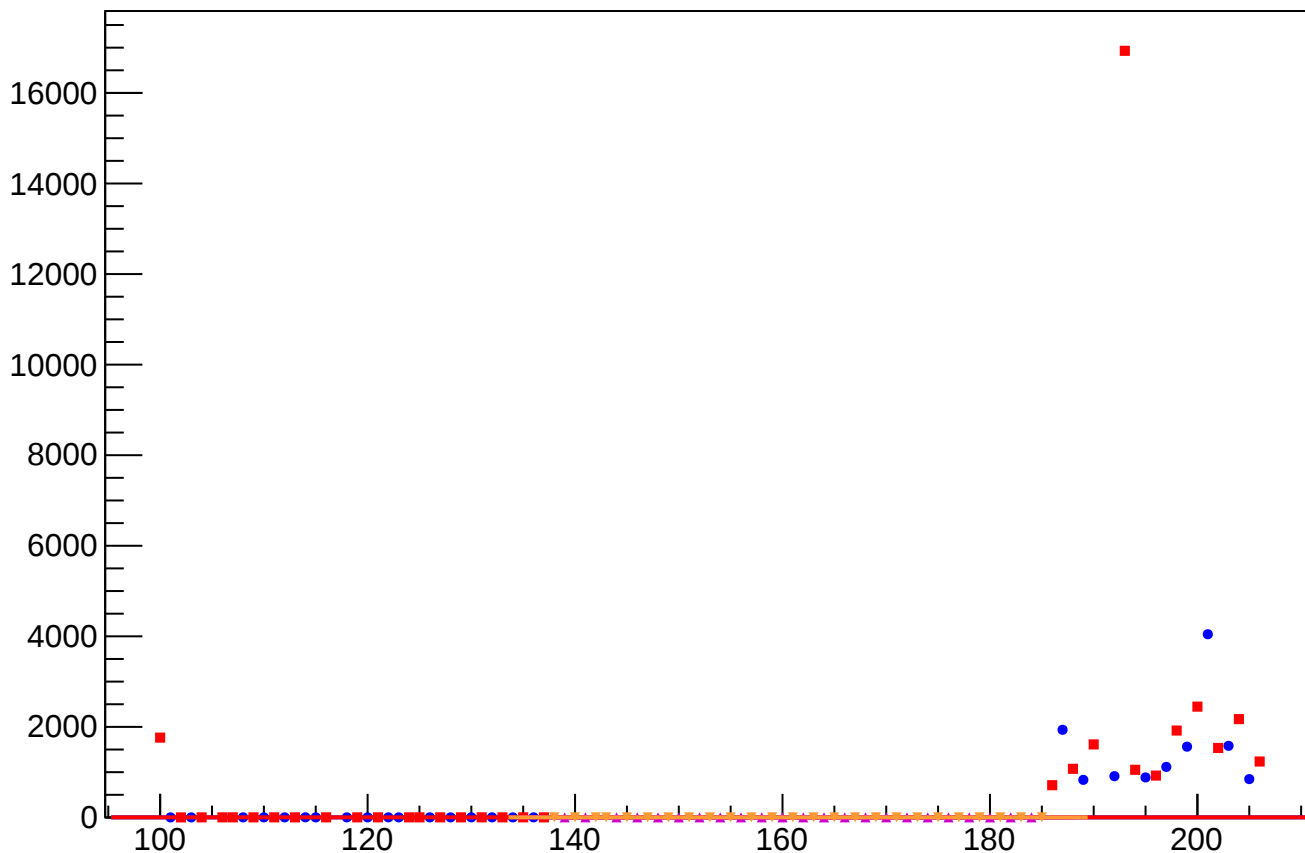
Right: -0.680 ± 0.587 χ^2/NDF : 50.3/55

In: -0.051 ± 0.471 χ^2/NDF : 39.8/48

Out: 0.139 ± 0.475 χ^2/NDF : 62.4/54

All: 0.043 ± 0.334 χ^2/NDF : 102.2/103

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867+/-0.001 χ^2/NDF : 4629576.0/25

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

Right Out: 2.065+/-0.001 χ^2/NDF : 5881033.5/29

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

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

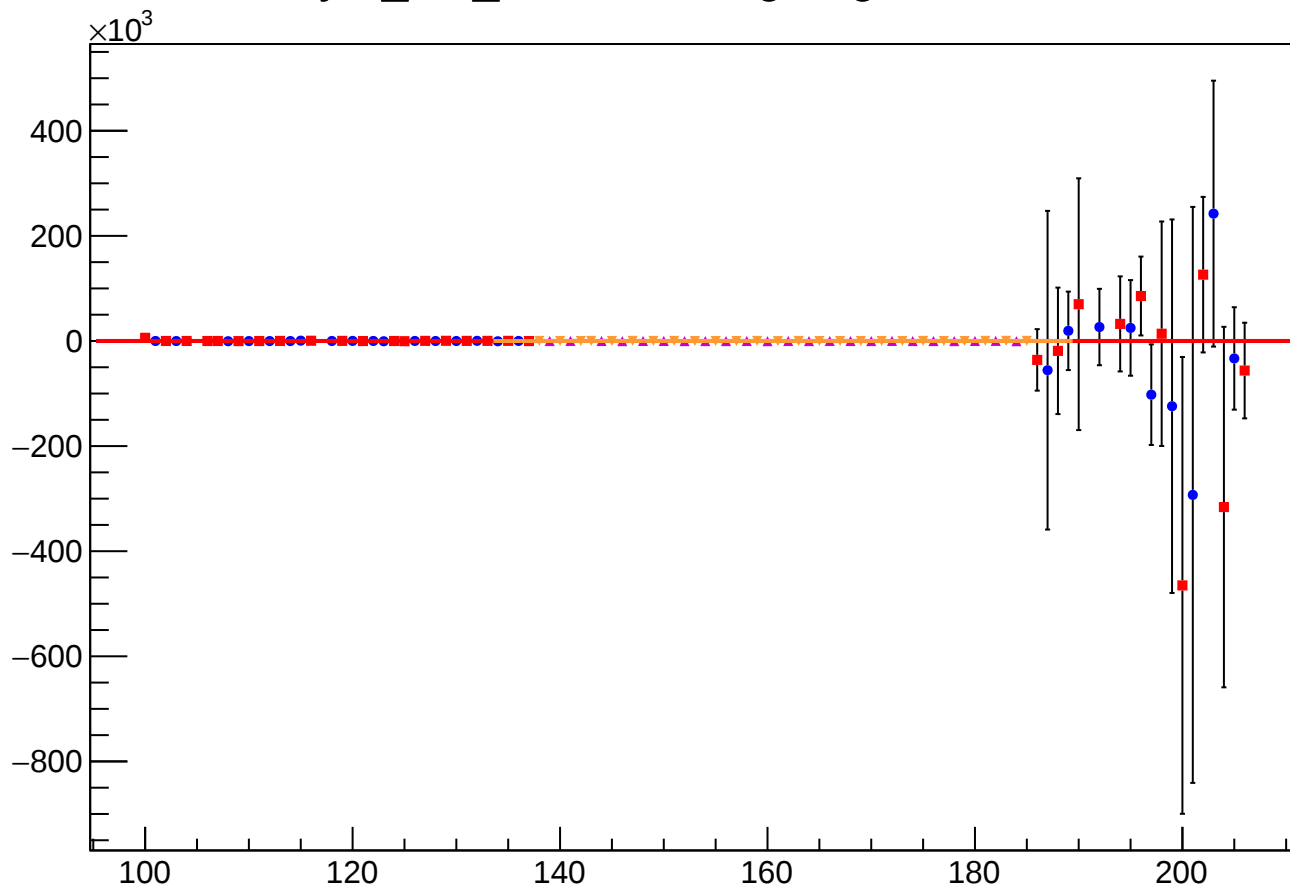
Right: 1.961+/-0.000 χ^2/NDF : 10567666.5/55

In: 2.082+/-0.000 χ^2/NDF : 5355309.4/48

Out: 2.201+/-0.000 χ^2/NDF : 6329468.7/54

All: 2.141+/-0.000 χ^2/NDF : 11747265.9/103

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.064 ± 46.854 χ^2/NDF : 17.4/25

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

Right Out: 54.292 ± 47.789 χ^2/NDF : 21.1/28

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

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

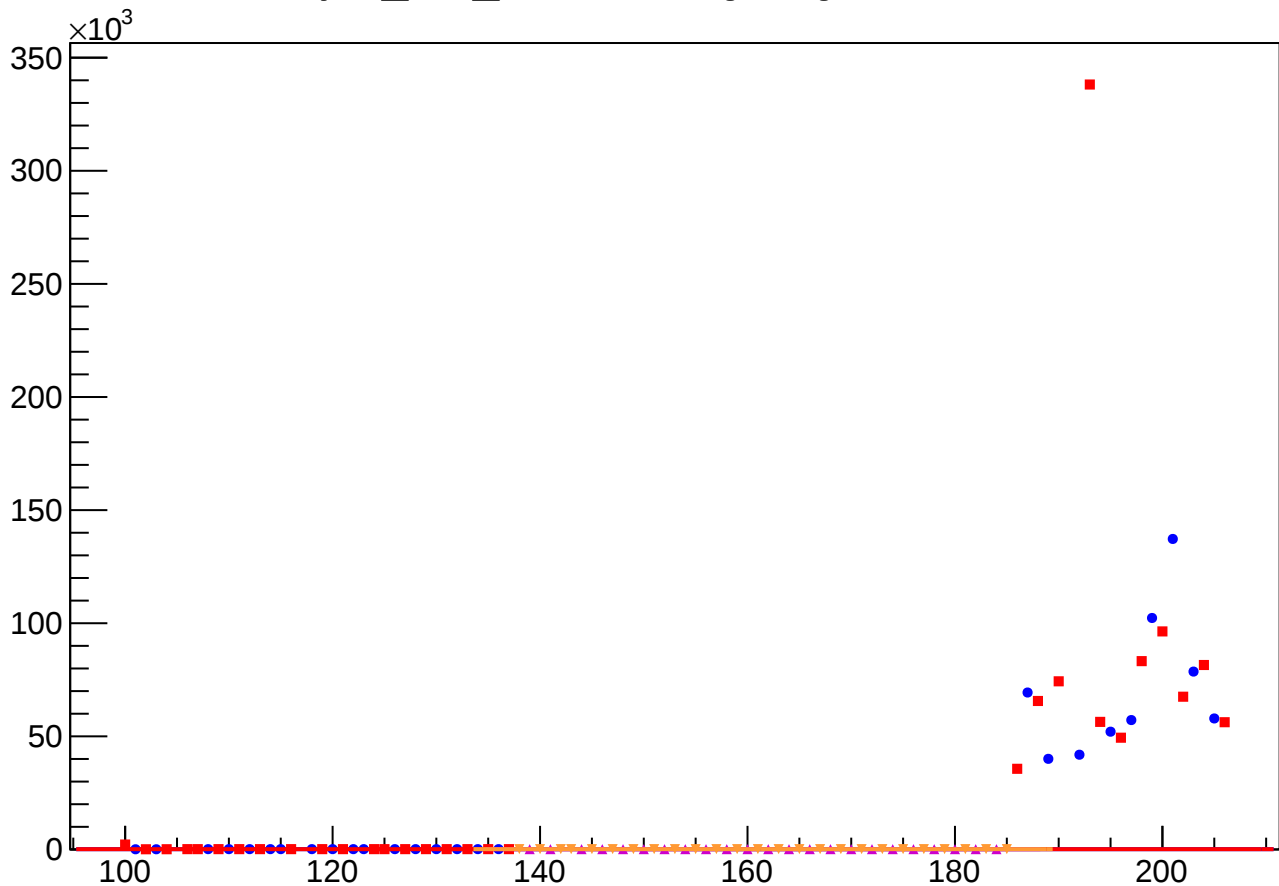
Right: 13.830 ± 33.456 χ^2/NDF : 39.9/54

In: -51.938 ± 26.954 χ^2/NDF : 37.2/48

Out: 7.632 ± 26.631 χ^2/NDF : 34.3/53

All: -21.793 ± 18.944 χ^2/NDF : 74.0/102

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.885 $\pm$ 0.033 χ^2 /NDF: 5202136.7/25

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

Right Out: 124.825 $\pm$ 0.034 χ^2 /NDF: 6070507.8/29

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

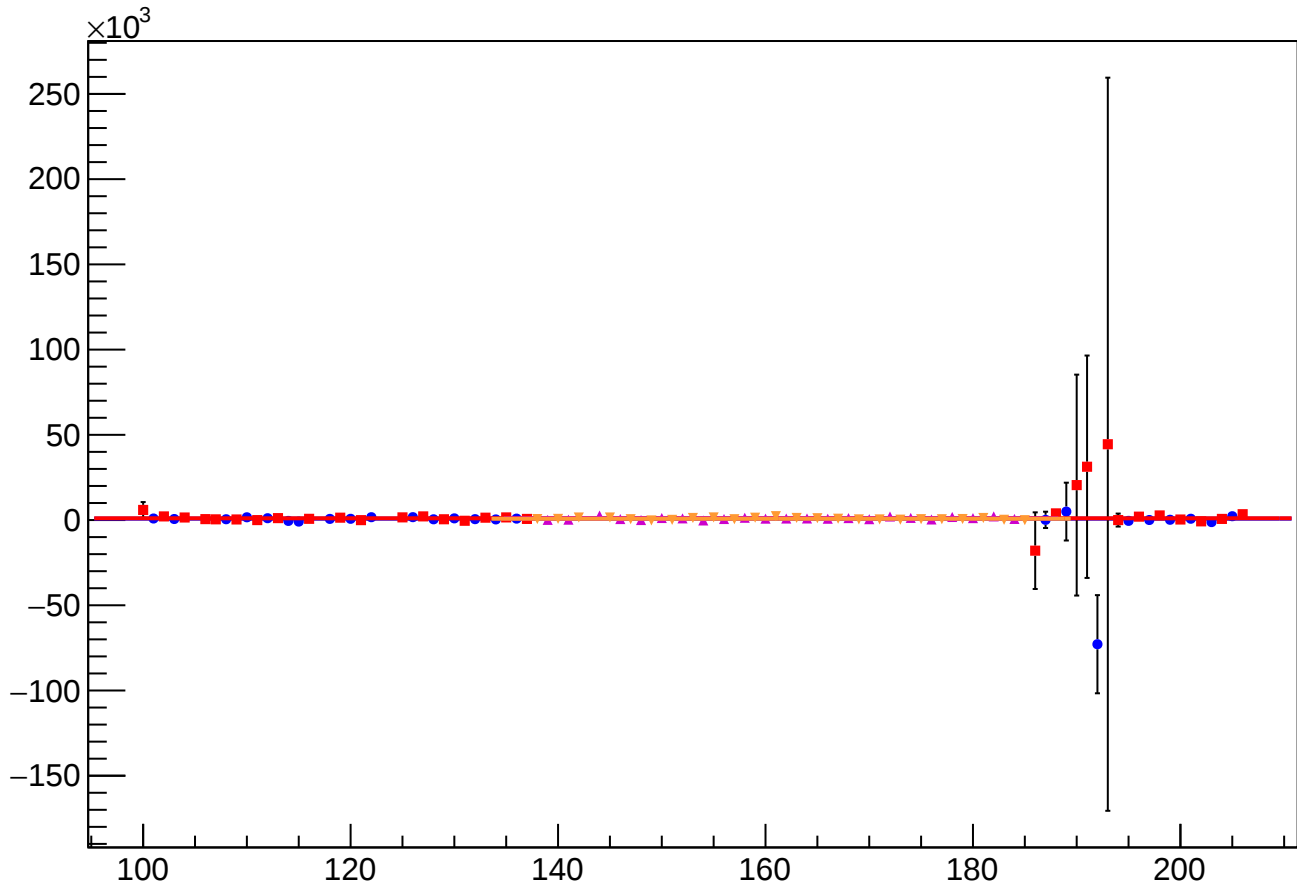
Right: 121.286 $\pm$ 0.024 χ^2 /NDF: 11294153.2/55

In: 131.238 $\pm$ 0.019 χ^2 /NDF: 5445400.0/48

Out: 133.836 $\pm$ 0.019 χ^2 /NDF: 6174093.1/54

All: 132.553 $\pm$ 0.013 χ^2 /NDF: 11628899.1/10

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 811.141 $\pm$ 210.744 χ^2 /NDF: 13.6/24

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

Right Out: 1037.077 $\pm$ 207.292 χ^2 /NDF: 18.7/29

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

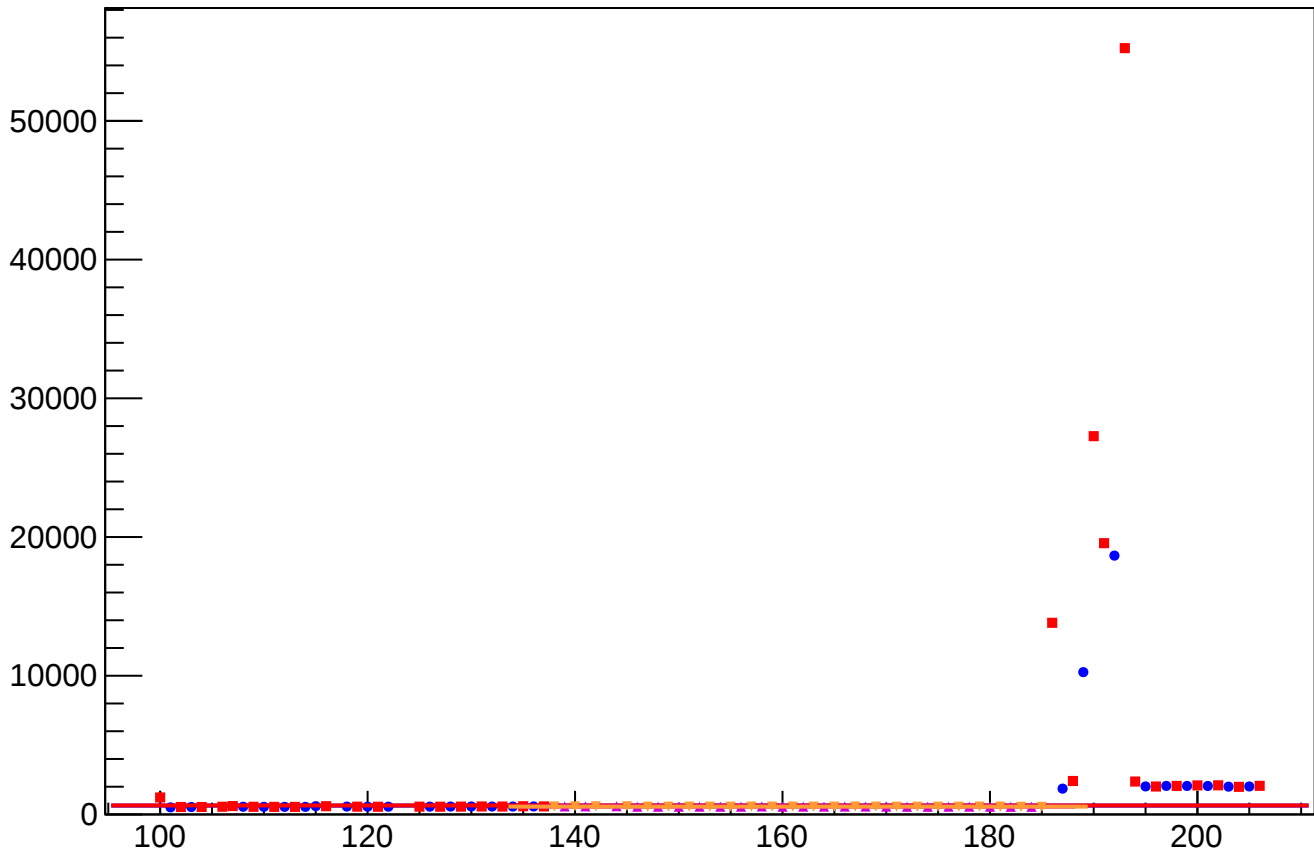
Right: 925.974 $\pm$ 147.783 χ^2 /NDF: 32.9/54

In: 926.934 $\pm$ 113.636 χ^2 /NDF:41.5/47

Out: 858.890 $\pm$ 112.566 χ^2 /NDF:39.0/53

All: 892.590 $\pm$ 79.972 χ^2 /NDF: 80.6/101

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 638.401+/-0.149 χ^2/NDF : 6410865.1/24

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

Right Out: 649.036+/-0.147 χ^2/NDF : 7187105.7/29

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

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

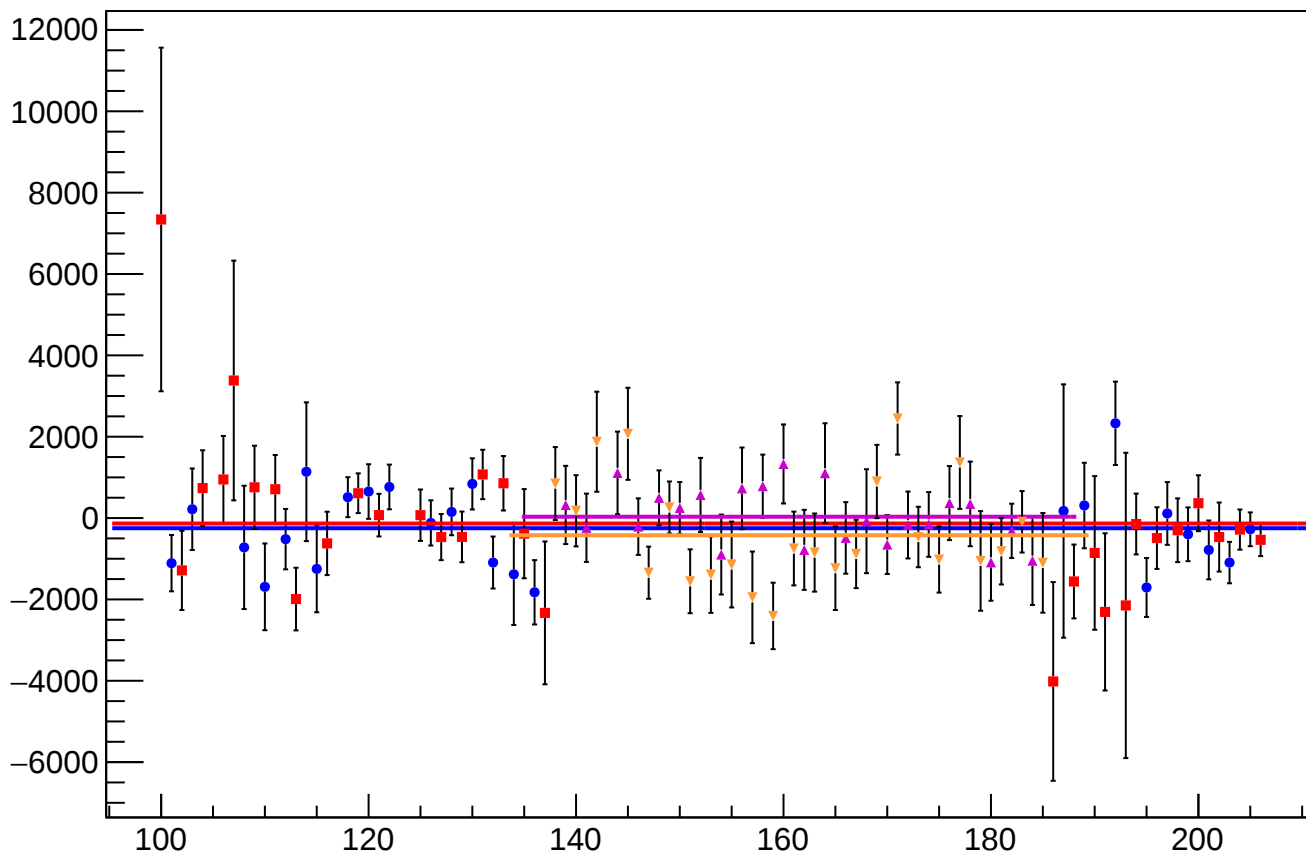
Right: 643.806+/-0.104 χ^2/NDF : 13600559.3/54

In: 585.904+/-0.080 χ^2/NDF : 6595057.4/47

Out: 589.177+/-0.080 χ^2/NDF : 7433217.4/53

All: 587.556+/-0.057 χ^2/NDF : 14029112.2/100

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -250.052 $\pm$ 141.427 χ^2 /NDF: 37.3/24

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

Right Out: -134.390 $\pm$ 138.521 χ^2 /NDF: 35.5/29

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

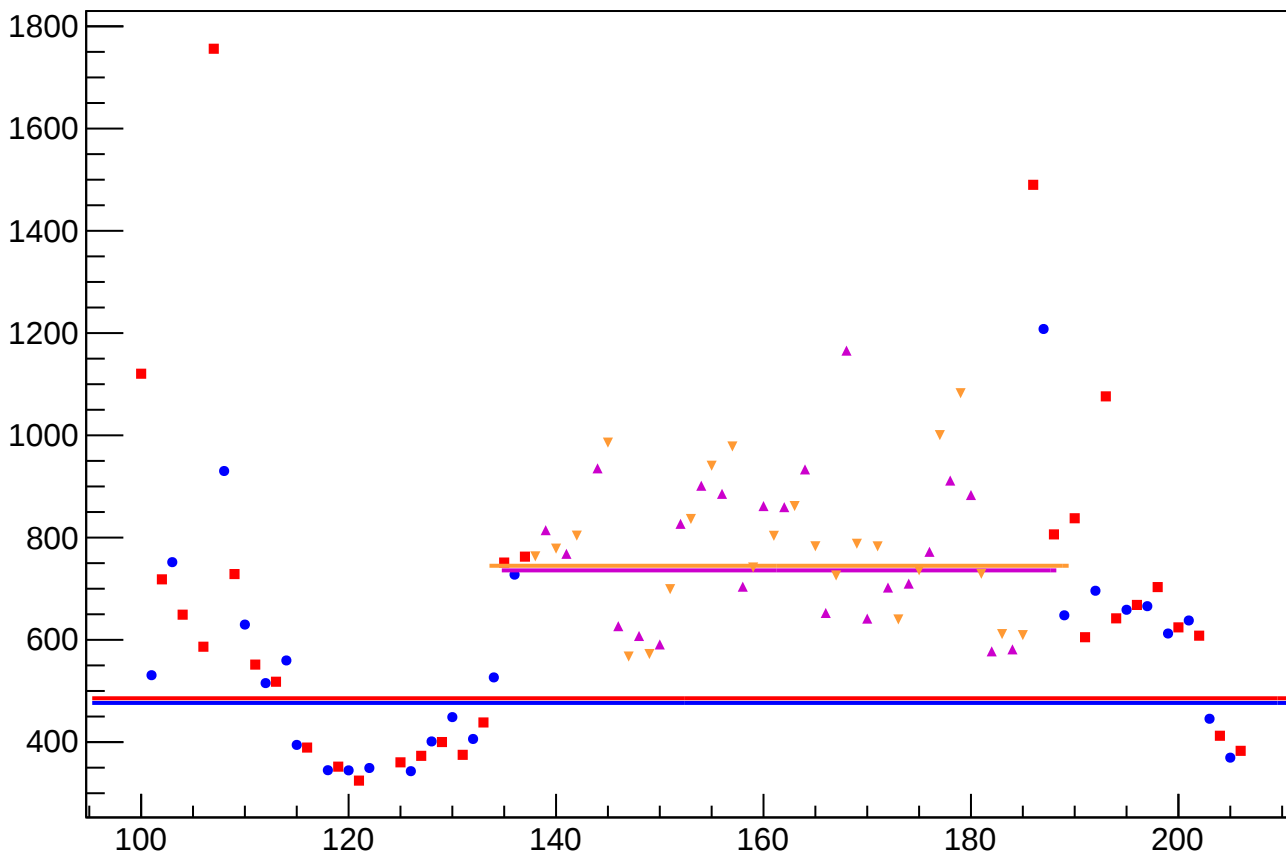
Right: -191.020 $\pm$ 98.961 χ^2 /NDF: 73.2/54

In: -141.813 $\pm$ 111.073 χ^2 /NDF:51.0/47

Out: -241.164 $\pm$ 109.915 χ^2 /NDF:80.3/53

All: -192.009 $\pm$ 78.128 χ^2 /NDF: 131.8/101

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 476.628 $\pm$ 0.100 χ^2 /NDF: 1941779.7/24

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

Right Out: 485.731 $\pm$ 0.098 χ^2 /NDF: 2919402.7/29

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

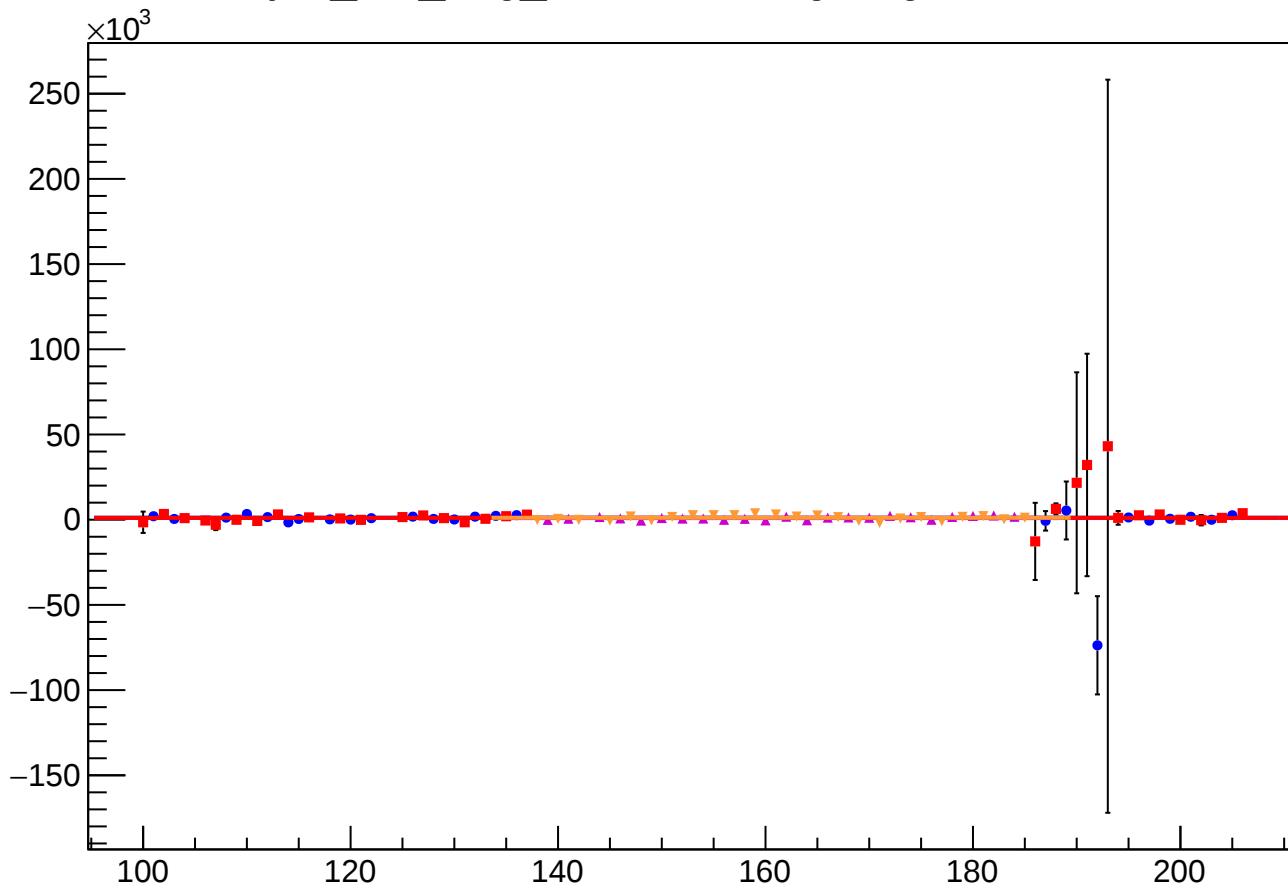
Right: 481.274 $\pm$ 0.070 χ^2 /NDF: 4865410.6/54

In: 575.961 $\pm$ 0.079 χ^2 /NDF:5621890.0/47

Out: 581.722 $\pm$ 0.078 χ^2 /NDF:6521425.6/53

All: 578.872 $\pm$ 0.055 χ^2 /NDF: 12146034.0/100

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1165.092 $\pm$ 282.675 χ^2 /NDF: 19.9/24

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

Right Out: 1059.159 $\pm$ 280.415 χ^2 /NDF: 29.8/29

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

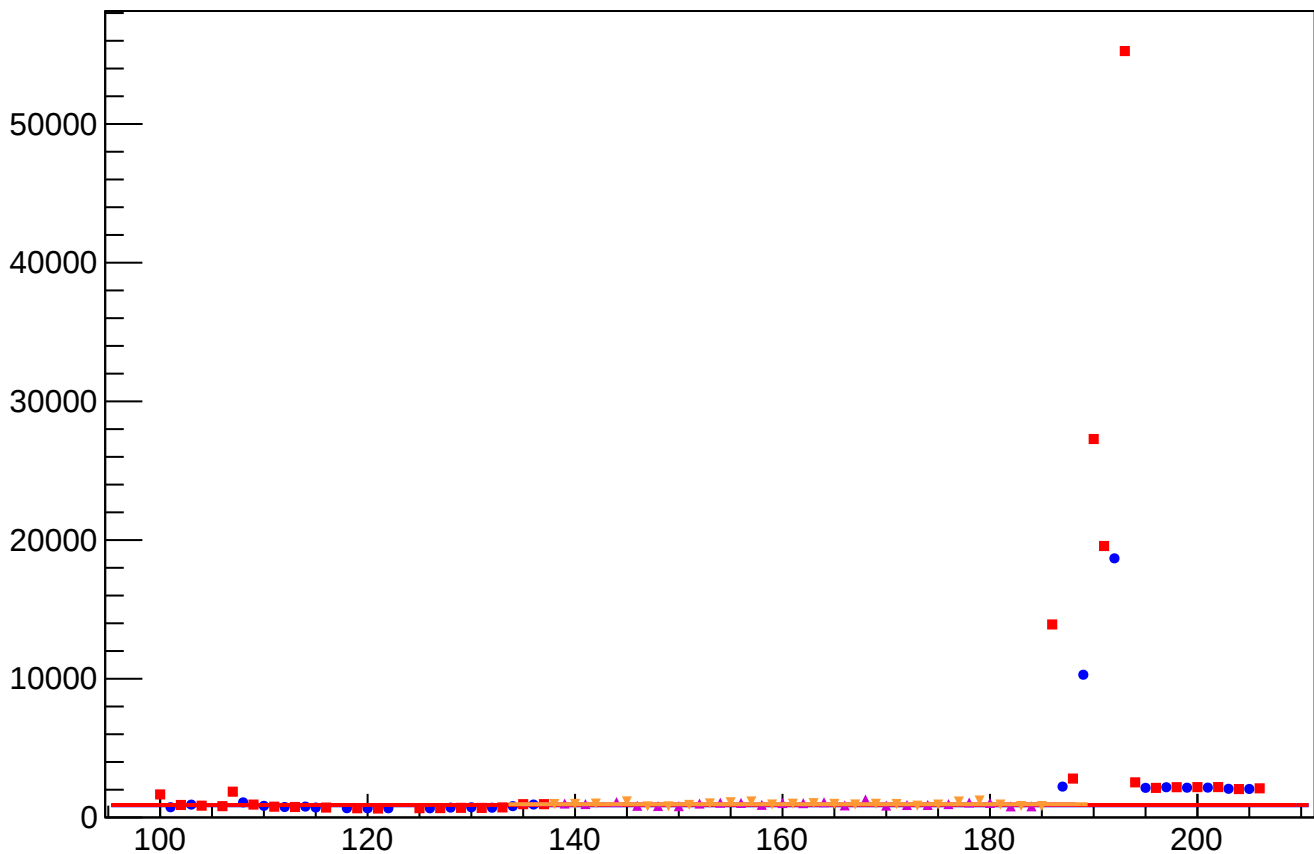
Right: 1111.701 $\pm$ 199.077 χ^2 /NDF: 49.7/54

In: 1029.903 $\pm$ 177.620 χ^2 /NDF:35.1/47

Out: 1106.446 $\pm$ 177.292 χ^2 /NDF:68.7/53

All: 1068.245 $\pm$ 125.480 χ^2 /NDF: 103.9/101

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 878.999 $\pm$ 0.200 χ^2 /NDF: 5409911.2/24

Left Out: 954.333 $\pm$ 0.162 χ^2 /NDF: 460147.5/23

Right Out: 897.768 $\pm$ 0.198 χ^2 /NDF: 6342586.0/29

Left In: 946.573 $\pm$ 0.161 χ^2 /NDF: 501366.9/22

Left: 950.444 $\pm$ 0.114 χ^2 /NDF: 962667.1/46

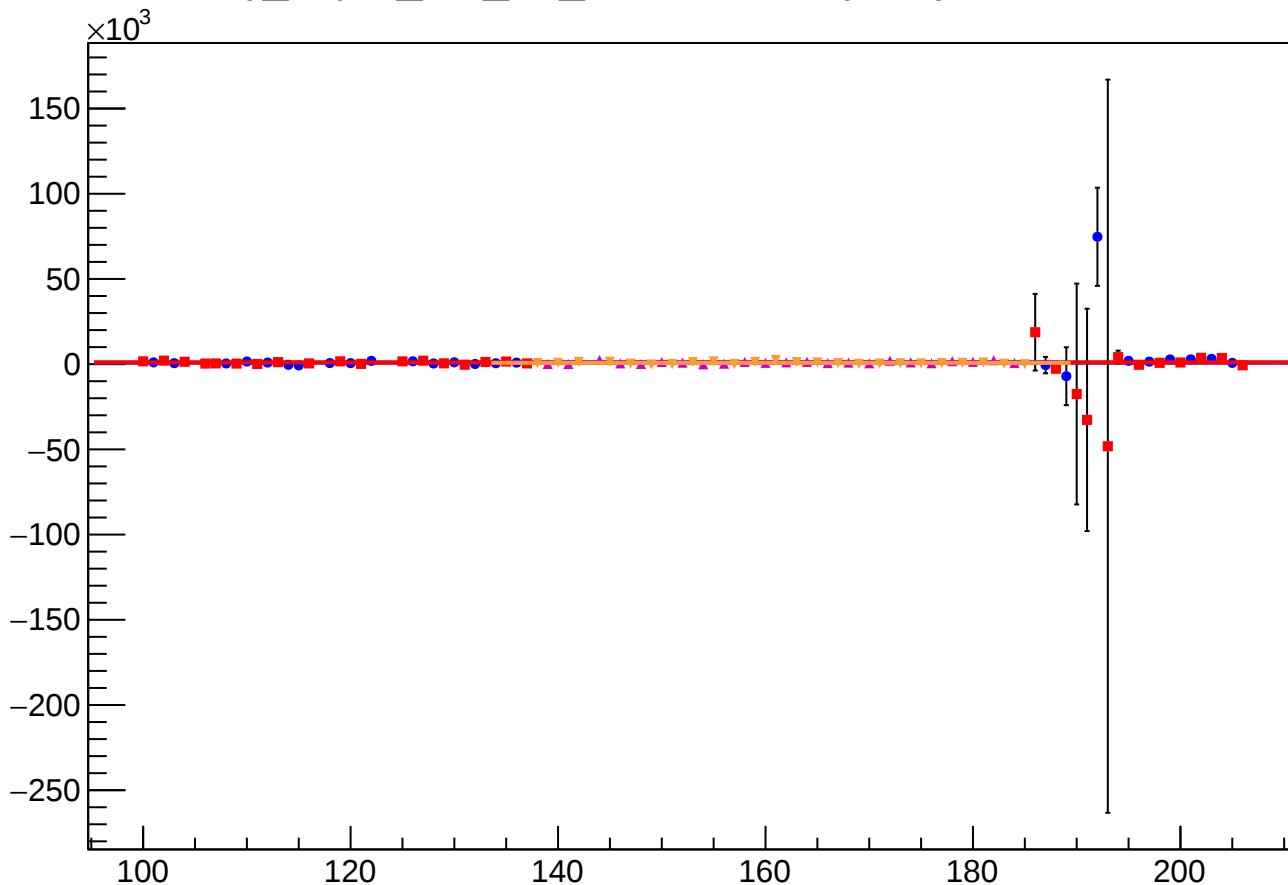
Right: 888.459 $\pm$ 0.141 χ^2 /NDF: 11756941.6/54

In: 919.893 $\pm$ 0.126 χ^2 /NDF: 5980444.7/47

Out: 931.722 $\pm$ 0.125 χ^2 /NDF: 6851583.3/53

All: 925.818 $\pm$ 0.089 χ^2 /NDF: 12836471.8/10

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 912.796 ± 210.606 χ^2/NDF : 15.7/24

Left Out: 757.642 ± 133.942 χ^2/NDF : 21.0/23

Right Out: 1017.996 ± 202.677 χ^2/NDF : 18.8/29

Left In: 958.517 ± 134.824 χ^2/NDF : 26.8/22

Left: 857.420 ± 95.022 χ^2/NDF : 49.0/46

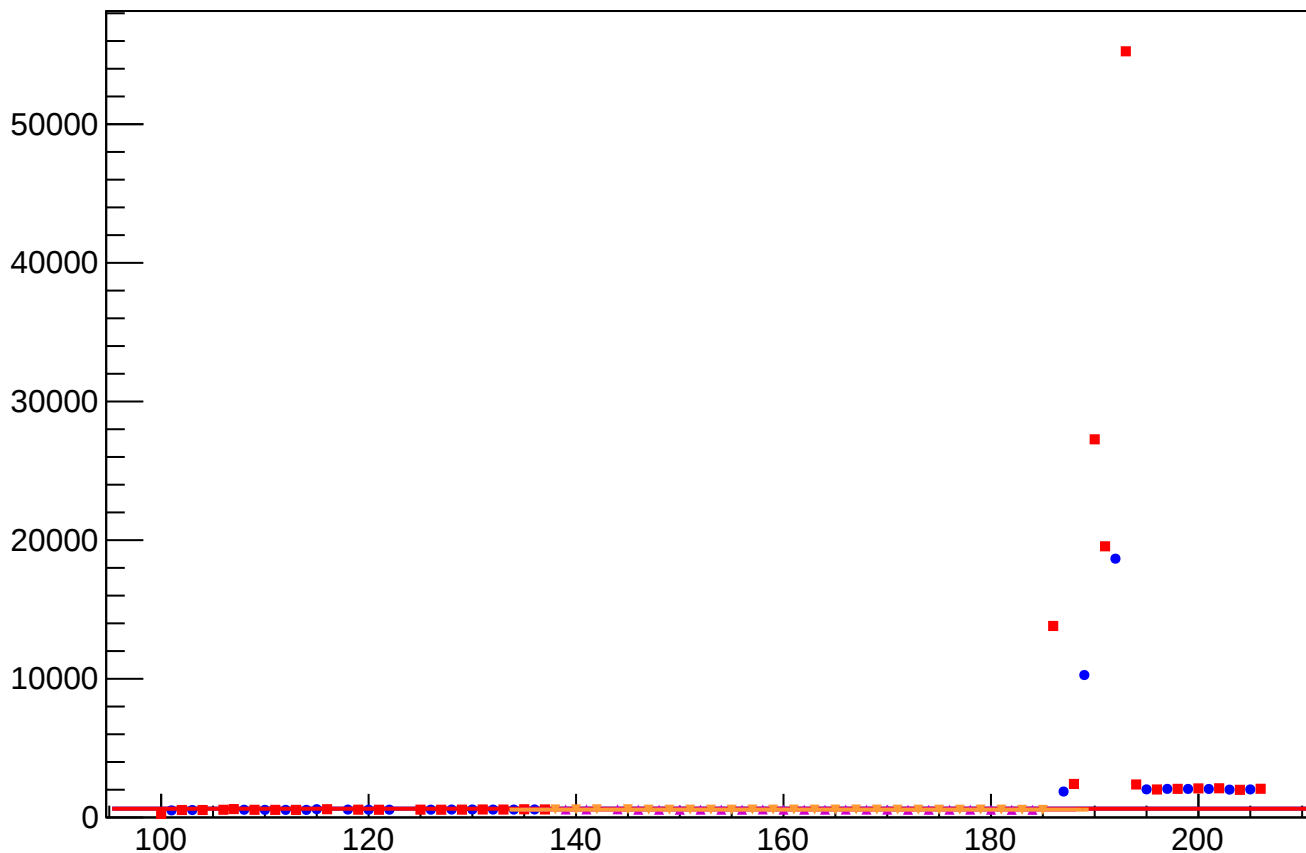
Right: 967.414 ± 146.037 χ^2/NDF : 34.6/54

In: 945.226 ± 113.550 χ^2/NDF : 42.5/47

Out: 836.785 ± 111.745 χ^2/NDF : 41.0/53

All: 890.137 ± 79.646 χ^2/NDF : 84.0/101

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 637.806+/-0.149 χ^2/NDF : 6421628.9/24

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

Right Out: 629.708+/-0.143 χ^2/NDF : 7488527.4/29

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

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

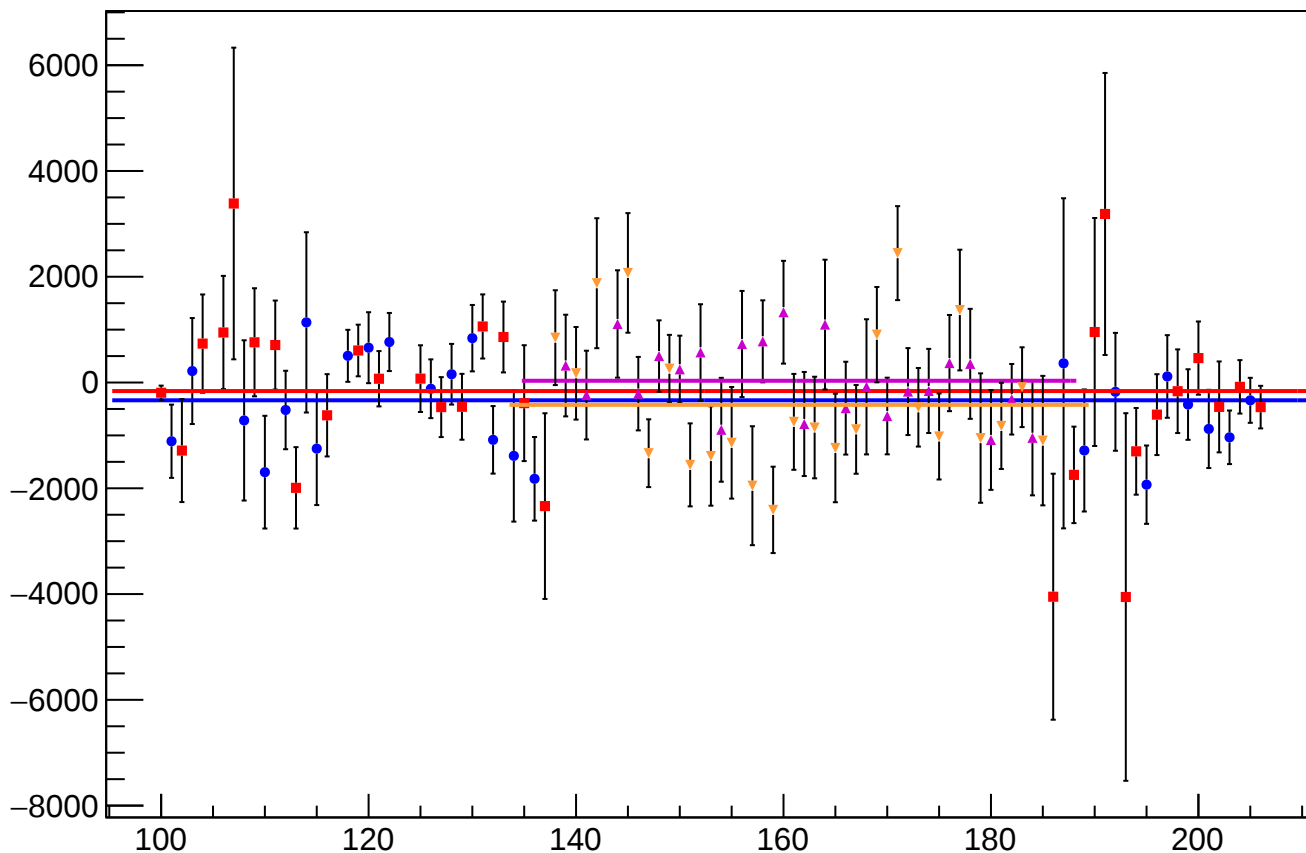
Right: 633.602+/-0.103 χ^2/NDF : 13911691.6/54

In: 585.408+/-0.080 χ^2/NDF : 6605369.5/47

Out: 583.747+/-0.079 χ^2/NDF : 7645833.7/53

All: 584.564+/-0.056 χ^2/NDF : 14251420.5/100

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -336.039 ± 142.509 $\chi^2/\text{NDF}: 32.1/24$

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

Right Out: -161.221 ± 97.072 $\chi^2/\text{NDF}: 36.7/29$

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

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

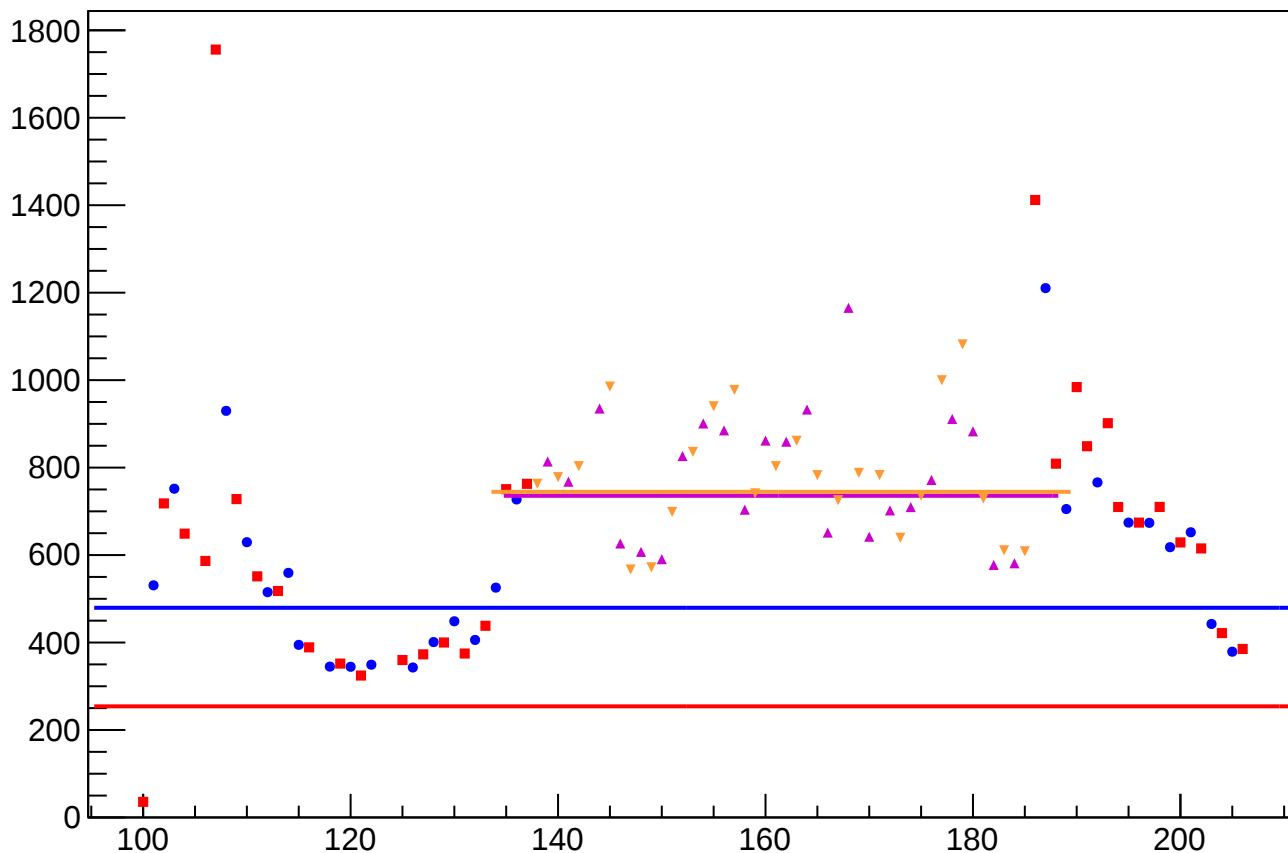
Right: -216.627 ± 80.228 $\chi^2/\text{NDF}: 69.9/54$

In: -193.094 ± 111.576 $\chi^2/\text{NDF}: 46.8/47$

Out: -219.781 ± 85.496 $\chi^2/\text{NDF}: 81.6/53$

All: -209.908 ± 67.864 $\chi^2/\text{NDF}: 128.5/101$

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 479.452 $\pm$ 0.101 χ^2/NDF : 2026110.6/24

Left Out: 744.597 $\pm$ 0.128 χ^2/NDF : 1009604.0/23

Right Out: 254.080 $\pm$ 0.069 χ^2/NDF : 13814224.5/29

Left In: 735.543 $\pm$ 0.127 χ^2/NDF : 1105222.3/22

Left: 740.040 $\pm$ 0.090 χ^2/NDF : 2117358.1/46

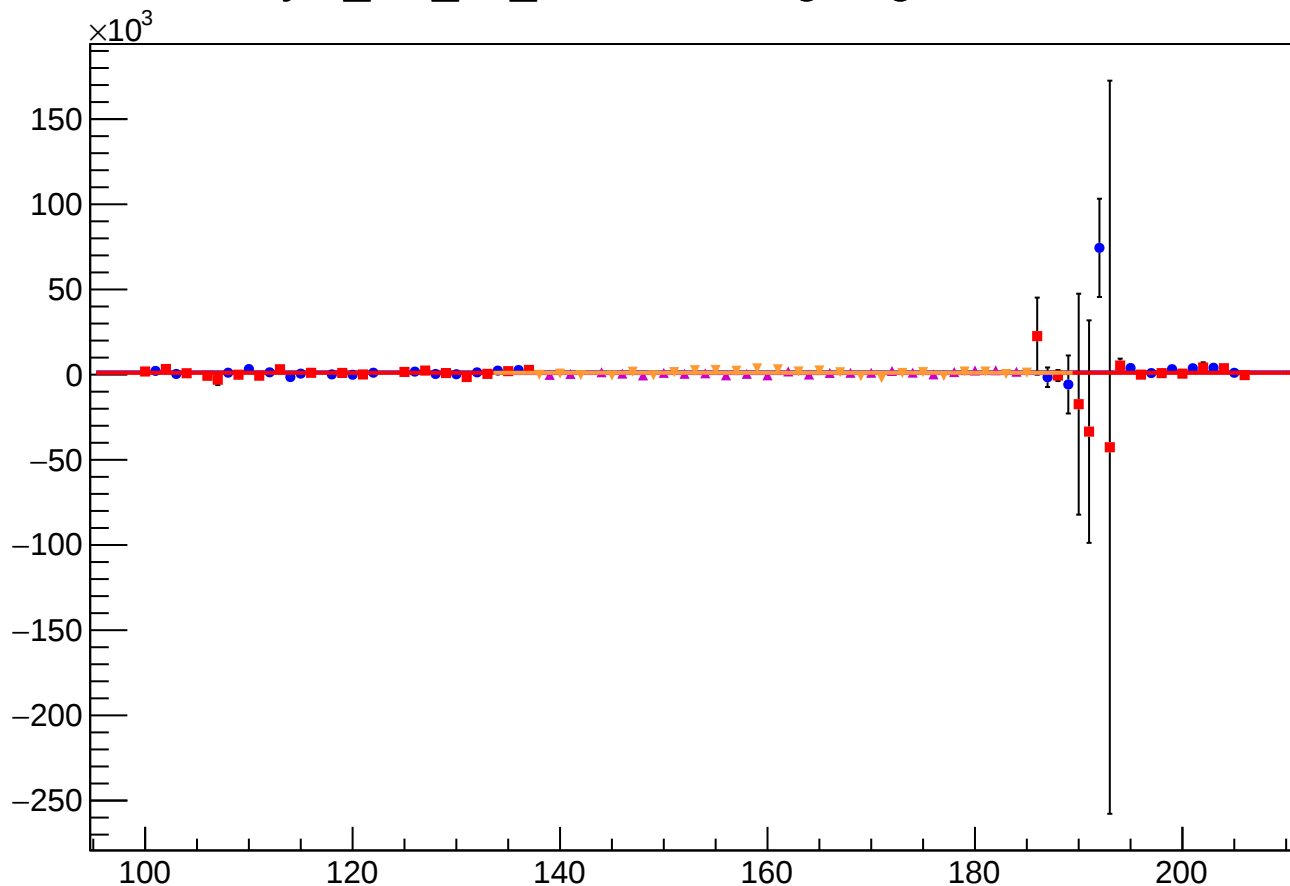
Right: 325.508 $\pm$ 0.057 χ^2/NDF : 19257036.6/54

In: 578.560 $\pm$ 0.079 χ^2/NDF : 5630802.4/47

Out: 364.093 $\pm$ 0.060 χ^2/NDF : 26277300.1/53

All: 443.434 $\pm$ 0.048 χ^2/NDF : 36563824.9/100

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1327.426 $\pm$ 282.563 χ^2/NDF : 23.0/24

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

Right Out: 1075.557 $\pm$ 269.513 χ^2/NDF : 28.0/29

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

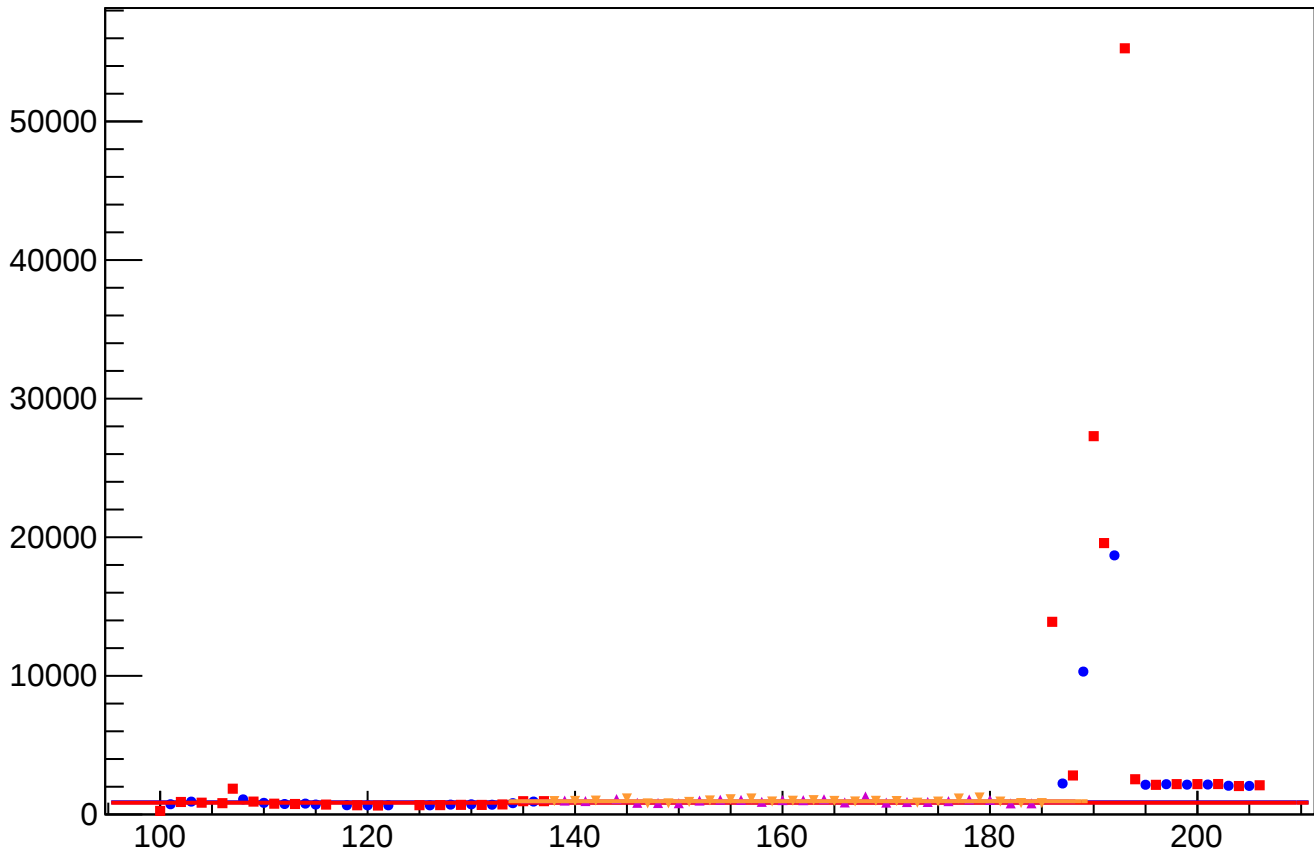
Right: 1195.541 $\pm$ 195.025 χ^2/NDF : 51.4/54

In: 1084.633 $\pm$ 177.532 χ^2/NDF : 39.3/47

Out: 1092.758 $\pm$ 174.379 χ^2/NDF : 66.3/53

All: 1088.768 $\pm$ 124.404 χ^2/NDF : 105.6/101

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 878.284+/-0.200 χ^2/NDF : 5426386.8/24

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

Right Out: 846.110+/-0.191 χ^2/NDF : 7132971.4/29

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

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

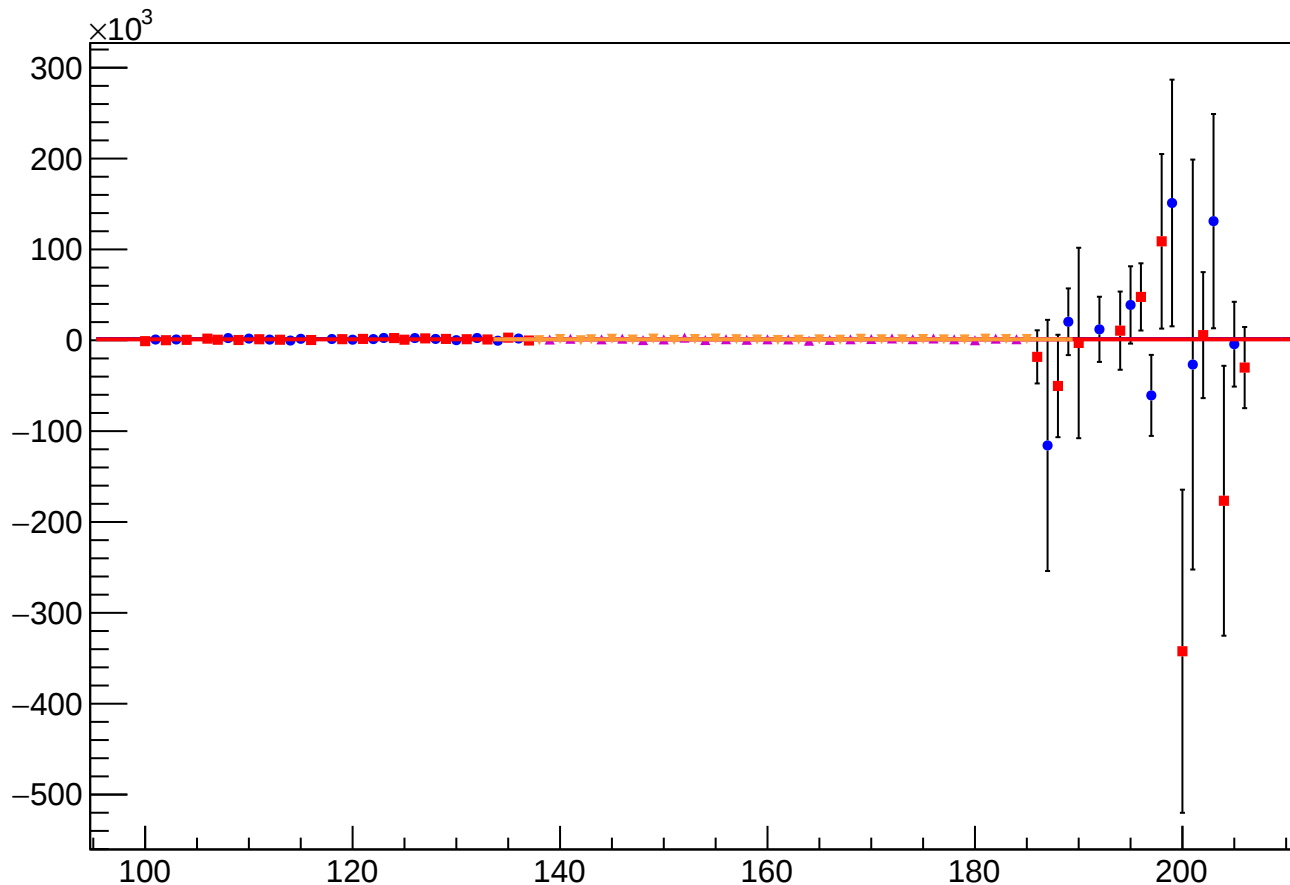
Right: 861.437+/-0.138 χ^2/NDF : 12572936.0/54

In: 919.294+/-0.126 χ^2/NDF : 5997434.9/47

Out: 908.707+/-0.123 χ^2/NDF : 7778759.8/53

All: 913.905+/-0.088 χ^2/NDF : 13779814.6/10

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.018 $\pm$ 218.583 χ^2 /NDF: 19.0/25

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

Right Out: 1039.529 $\pm$ 212.062 χ^2 /NDF: 23.3/28

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

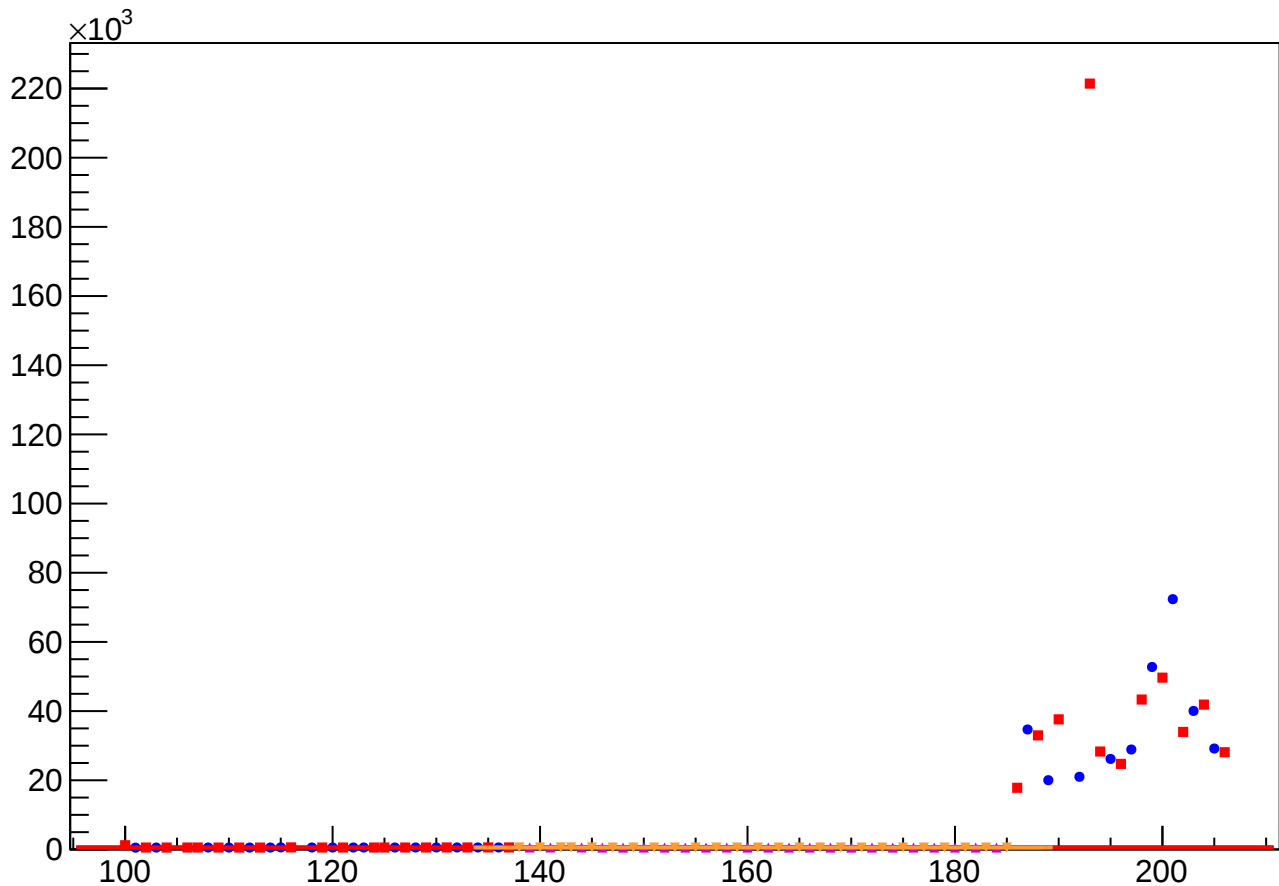
Right: 1177.951 $\pm$ 152.204 χ^2 /NDF: 43.2/54

In: 1178.307 $\pm$ 113.722 χ^2 /NDF:49.7/48

Out: 1064.344 $\pm$ 110.639 χ^2 /NDF:38.5/53

All: 1119.760 $\pm$ 79.301 χ^2 /NDF: 88.7/102

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 567.451 $\pm$ 0.155 χ^2 /NDF: 4482062.1/25

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

Right Out: 569.683 $\pm$ 0.150 χ^2 /NDF: 5483307.9/29

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

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

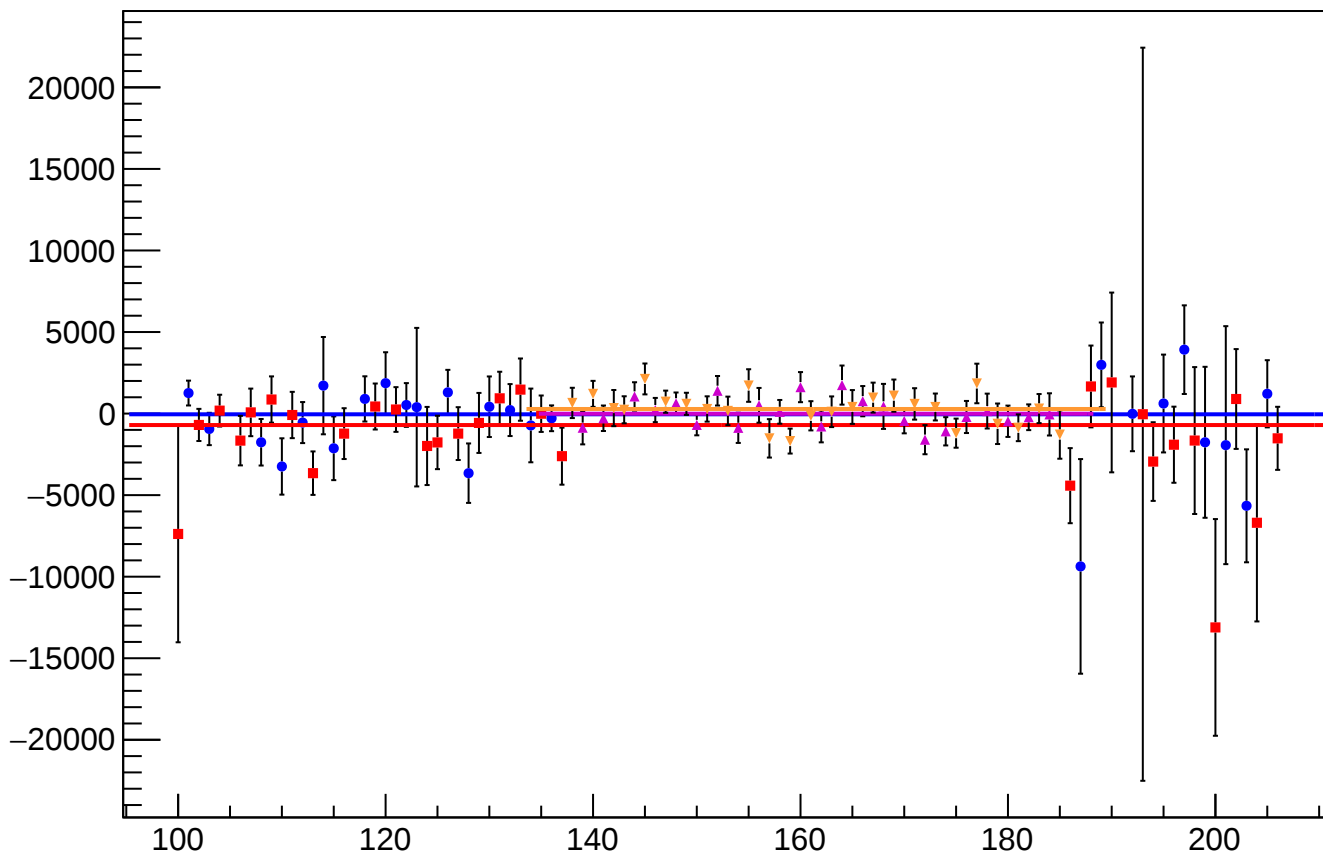
Right: 568.601 $\pm$ 0.108 χ^2 /NDF: 9965477.4/55

In: 559.806 $\pm$ 0.080 χ^2 /NDF:4496626.2/48

Out: 560.841 $\pm$ 0.078 χ^2 /NDF:5502838.0/54

All: 560.338 $\pm$ 0.056 χ^2 /NDF: 9999549.3/103

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -44.203 ± 312.002 $\chi^2/\text{NDF}: 25.8/25$

Left Out: 281.875 ± 180.423 $\chi^2/\text{NDF}: 26.7/24$

Right Out: -703.028 ± 312.634 $\chi^2/\text{NDF}: 24.6/29$

Left In: -8.211 ± 183.382 $\chi^2/\text{NDF}: 20.2/22$

Left: 139.190 ± 128.612 $\chi^2/\text{NDF}: 48.2/47$

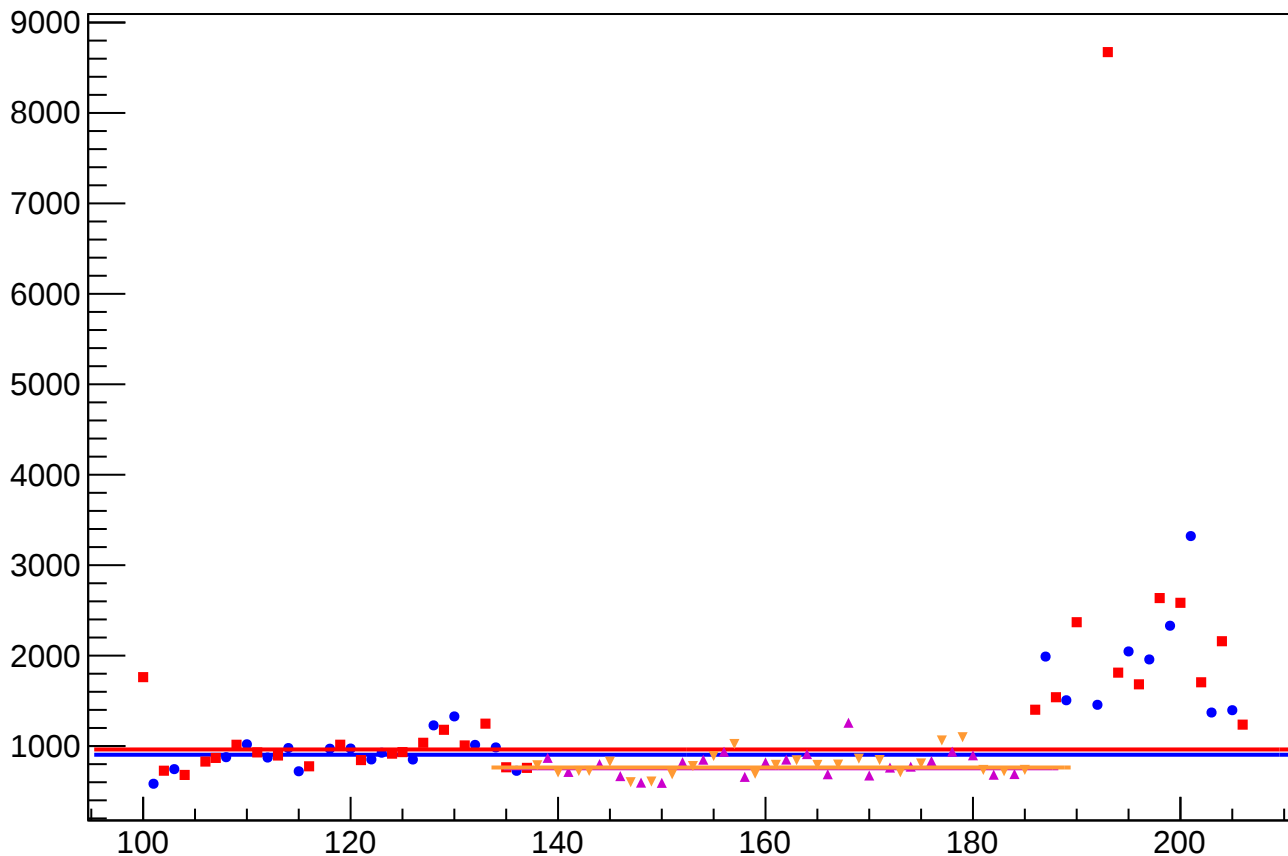
Right: -372.949 ± 220.842 $\chi^2/\text{NDF}: 52.6/55$

In: -17.452 ± 158.096 $\chi^2/\text{NDF}: 46.0/48$

Out: 35.804 ± 156.268 $\chi^2/\text{NDF}: 58.8/54$

All: 9.486 ± 111.139 $\chi^2/\text{NDF}: 104.8/103$

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 904.146 $\pm$ 0.221 χ^2 /NDF: 2159160.4/25

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

Right Out: 962.502 $\pm$ 0.221 χ^2 /NDF: 2174787.8/29

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

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

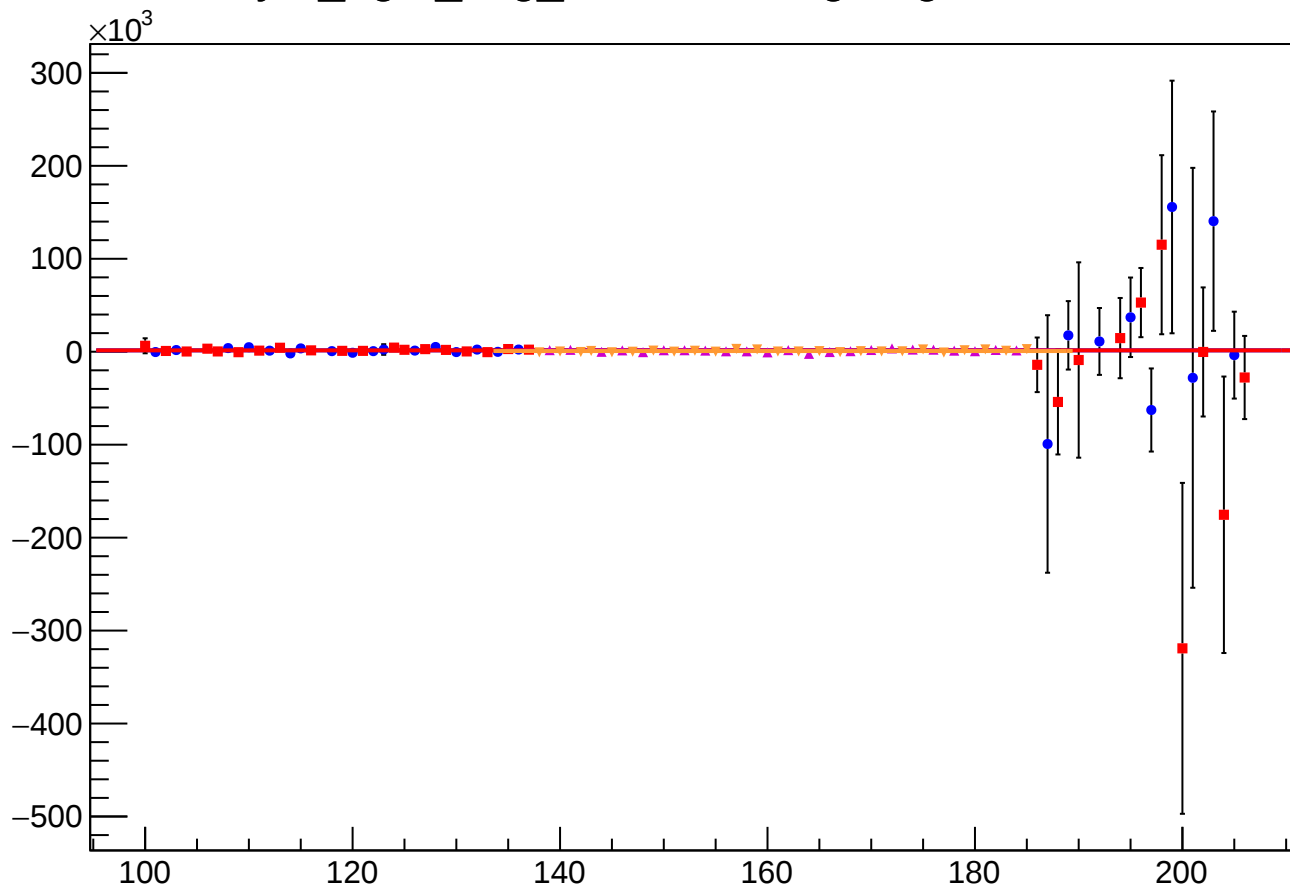
Right: 933.265 $\pm$ 0.156 χ^2 /NDF: 4368860.3/55

In: 792.625 $\pm$ 0.112 χ^2 /NDF: 3434786.1/48

Out: 812.908 $\pm$ 0.110 χ^2 /NDF: 3538919.6/54

All: 802.884 $\pm$ 0.079 χ^2 /NDF: 6990356.7/103

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1500.685 $\pm$ 402.562 χ^2 /NDF: 23.4/25

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

Right Out: 1485.657 $\pm$ 400.599 χ^2 /NDF: 21.8/28

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

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

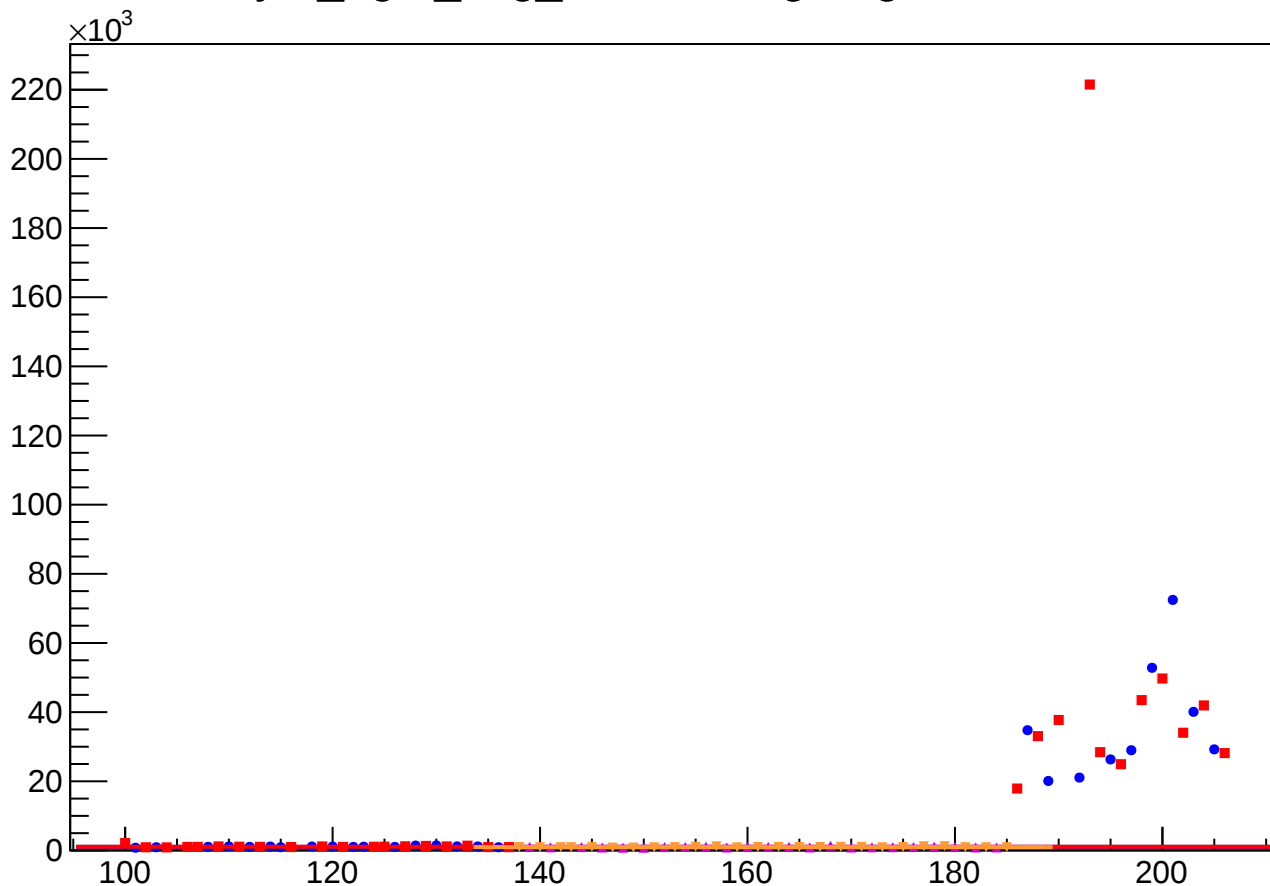
Right: 1493.134 $\pm$ 283.958 χ^2 /NDF: 45.1/54

In: 1217.183 $\pm$ 199.746 χ^2 /NDF:49.4/48

Out: 919.190 $\pm$ 196.529 χ^2 /NDF:45.9/53

All: 1065.768 $\pm$ 140.091 χ^2 /NDF: 96.4/102

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1035.064 $\pm$ 0.285 χ^2 /NDF: 4658930.6/25

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

Right Out: 1073.106 $\pm$ 0.283 χ^2 /NDF: 5482472.3/29

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

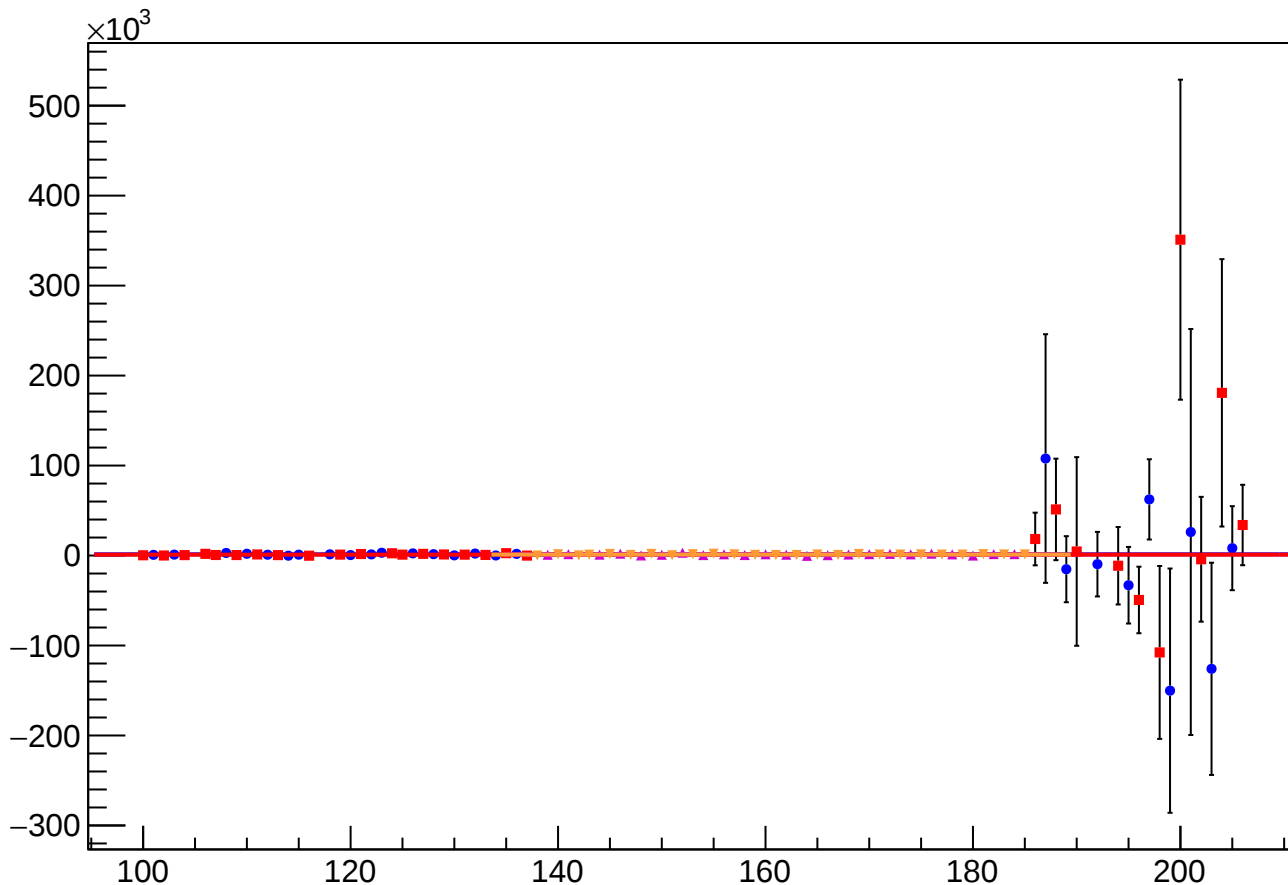
Right: 1054.178 $\pm$ 0.201 χ^2 /NDF: 10150376.8/55

In: 974.443 $\pm$ 0.141 χ^2 /NDF: 5162493.0/48

Out: 988.935 $\pm$ 0.139 χ^2 /NDF: 5961693.3/54

All: 981.807 $\pm$ 0.099 χ^2 /NDF: 11129535.4/100

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.578 $\pm$ 218.838 χ^2 /NDF: 17.9/25

Left Out: 1087.627 $\pm$ 129.821 χ^2 /NDF:14.9/24

Right Out: 966.131 $\pm$ 208.597 χ^2 /NDF: 22.5/28

Left In: 1189.481 $\pm$ 133.313 χ^2 /NDF:32.2/22

Left: 1137.202 $\pm$ 93.008 χ^2 /NDF: 47.4/47

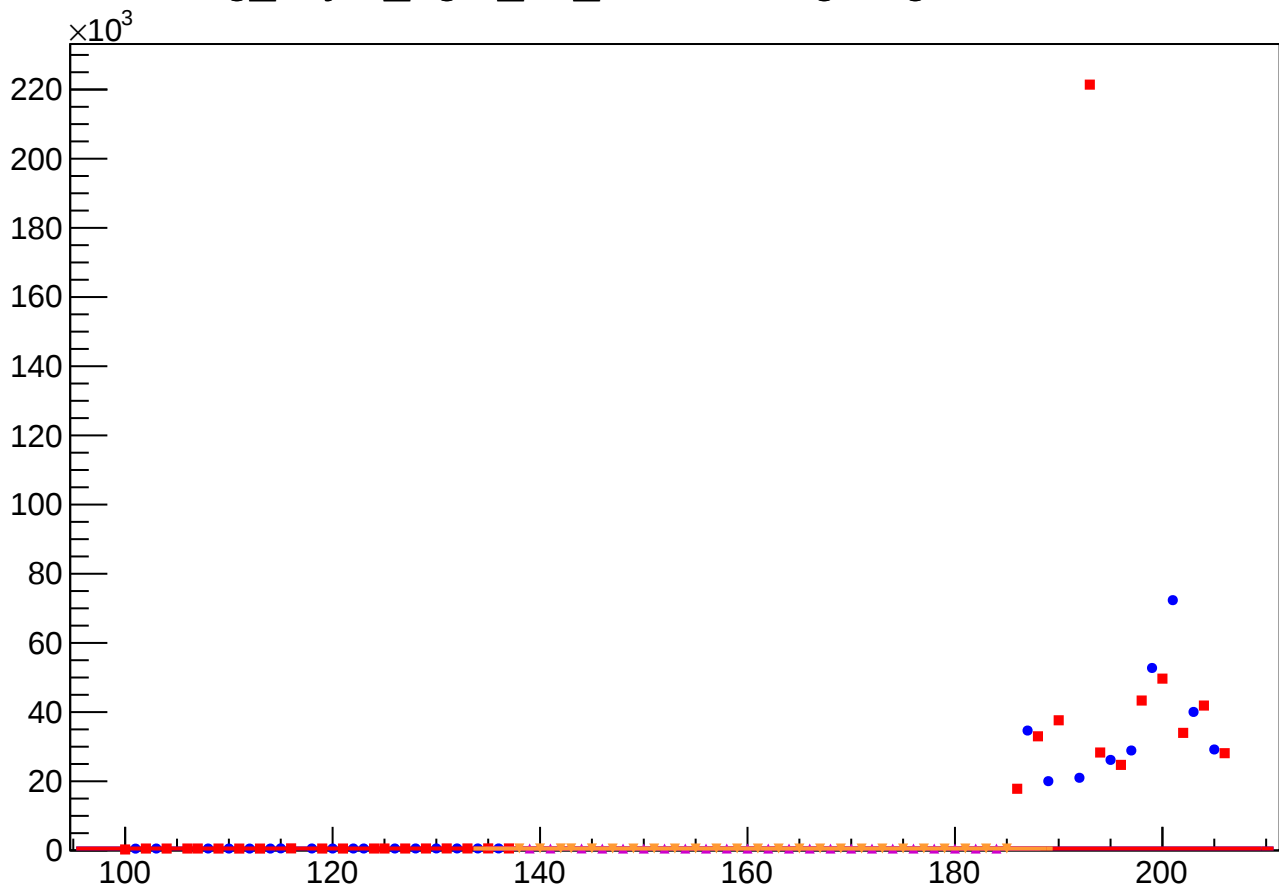
Right: 1146.293 $\pm$ 150.991 χ^2 /NDF: 41.9/54

In: 1231.460 $\pm$ 113.851 χ^2 /NDF:50.4/48

Out: 1053.706 $\pm$ 110.219 χ^2 /NDF:37.7/53

All: 1139.703 $\pm$ 79.190 χ^2 /NDF: 89.3/102

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 568.112 $\pm$ 0.155 χ^2 /NDF: 4482262.4/25

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

Right Out: 558.678 $\pm$ 0.148 χ^2 /NDF: 5570968.7/29

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

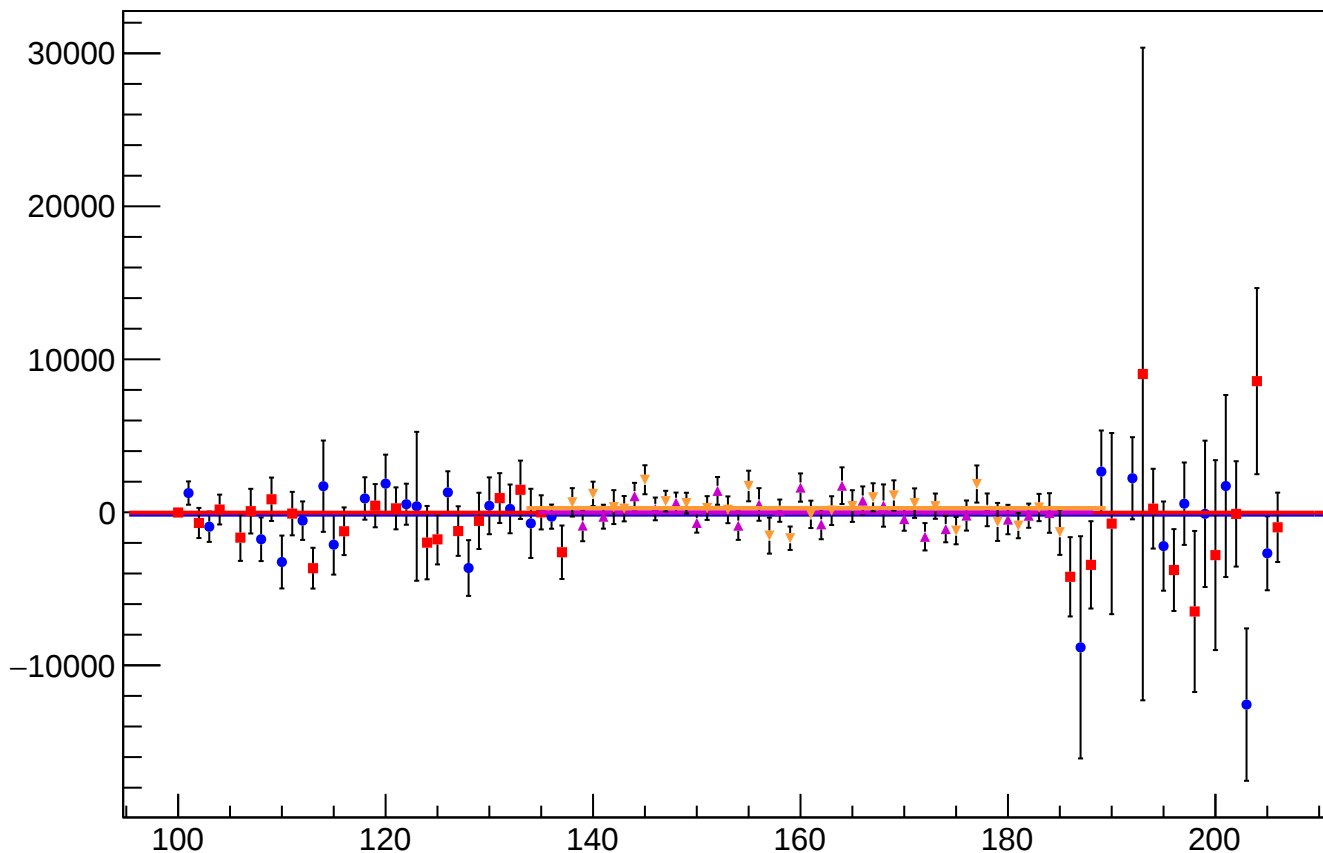
Right: 563.169 $\pm$ 0.107 χ^2 /NDF: 10055178.6/55

In: 560.443 $\pm$ 0.081 χ^2 /NDF: 4496907.3/48

Out: 558.261 $\pm$ 0.078 χ^2 /NDF: 5585765.0/54

All: 559.316 $\pm$ 0.056 χ^2 /NDF: 10083051.5/100

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -152.665 ± 314.507 χ^2/NDF : 28.3/25

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

Right Out: -22.806 ± 38.927 χ^2/NDF : 26.0/29

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

Left: 139.424 ± 128.663 χ^2/NDF : 48.2/47

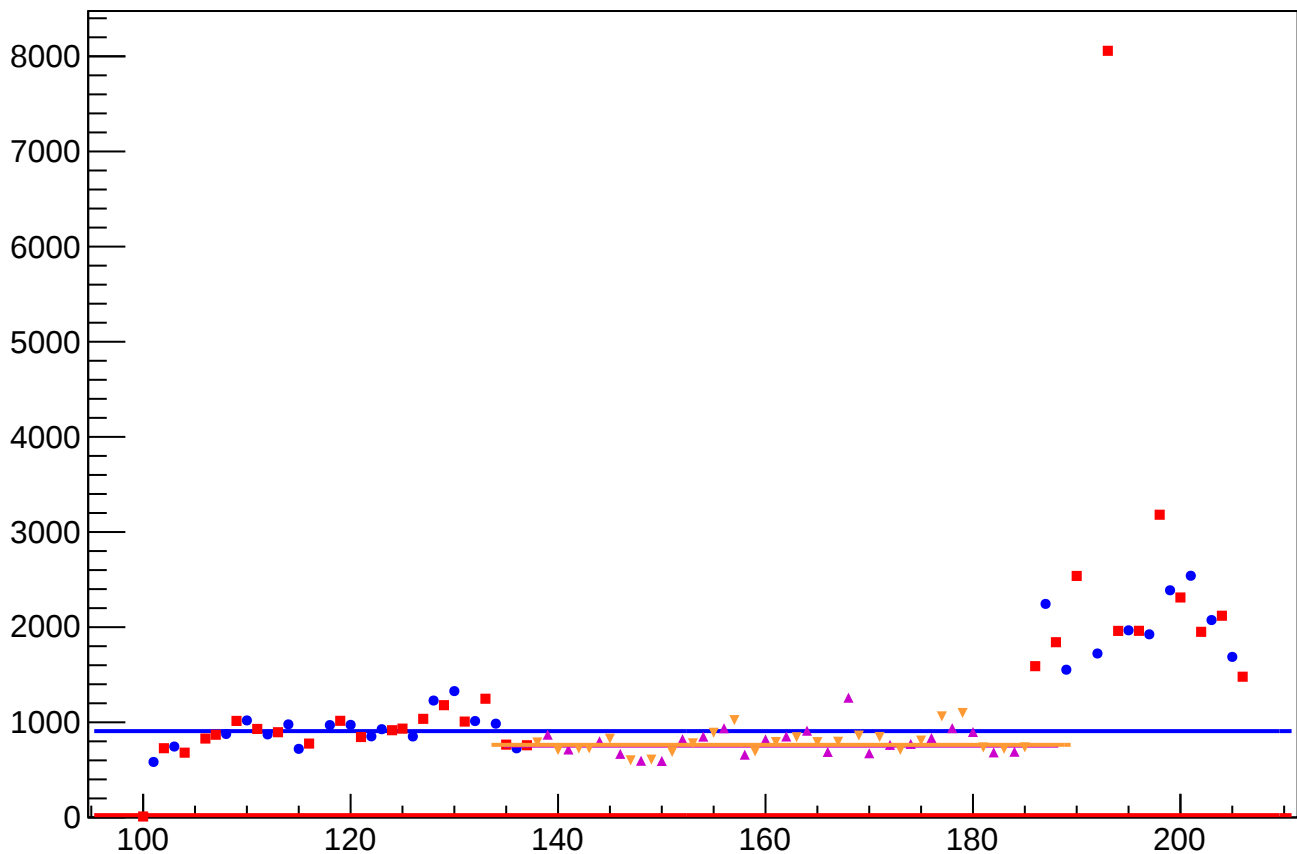
Right: -24.765 ± 38.632 χ^2/NDF : 54.5/55

In: -44.214 ± 158.478 χ^2/NDF : 48.6/48

Out: -9.283 ± 38.052 χ^2/NDF : 55.5/54

All: -11.187 ± 37.000 χ^2/NDF : 104.2/103

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 907.506+/-0.222 χ^2/NDF : 2317730.1/25

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

Right Out: 24.468+/-0.028 χ^2/NDF : 20506278.2/29

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

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

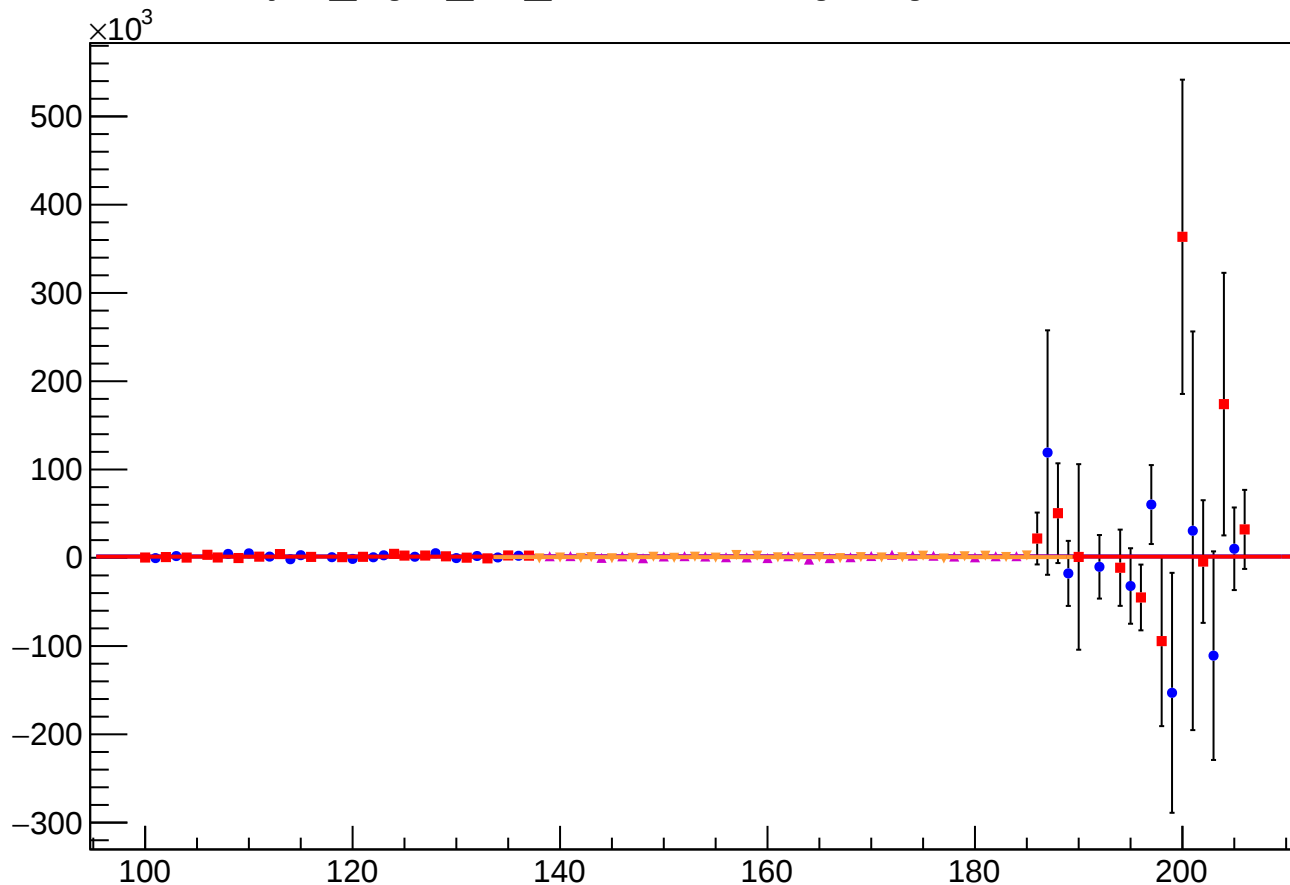
Right: 37.791+/-0.027 χ^2/NDF : 38352497.9/55

In: 793.337+/-0.112 χ^2/NDF : 3602513.2/48

Out: 57.311+/-0.027 χ^2/NDF : 53288230.4/54

All: 97.431+/-0.026 χ^2/NDF : 97679158.9/103

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1516.587 $\pm$ 402.785 χ^2 /NDF: 23.5/25

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

Right Out: 1290.696 $\pm$ 376.580 χ^2 /NDF: 22.2/28

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

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

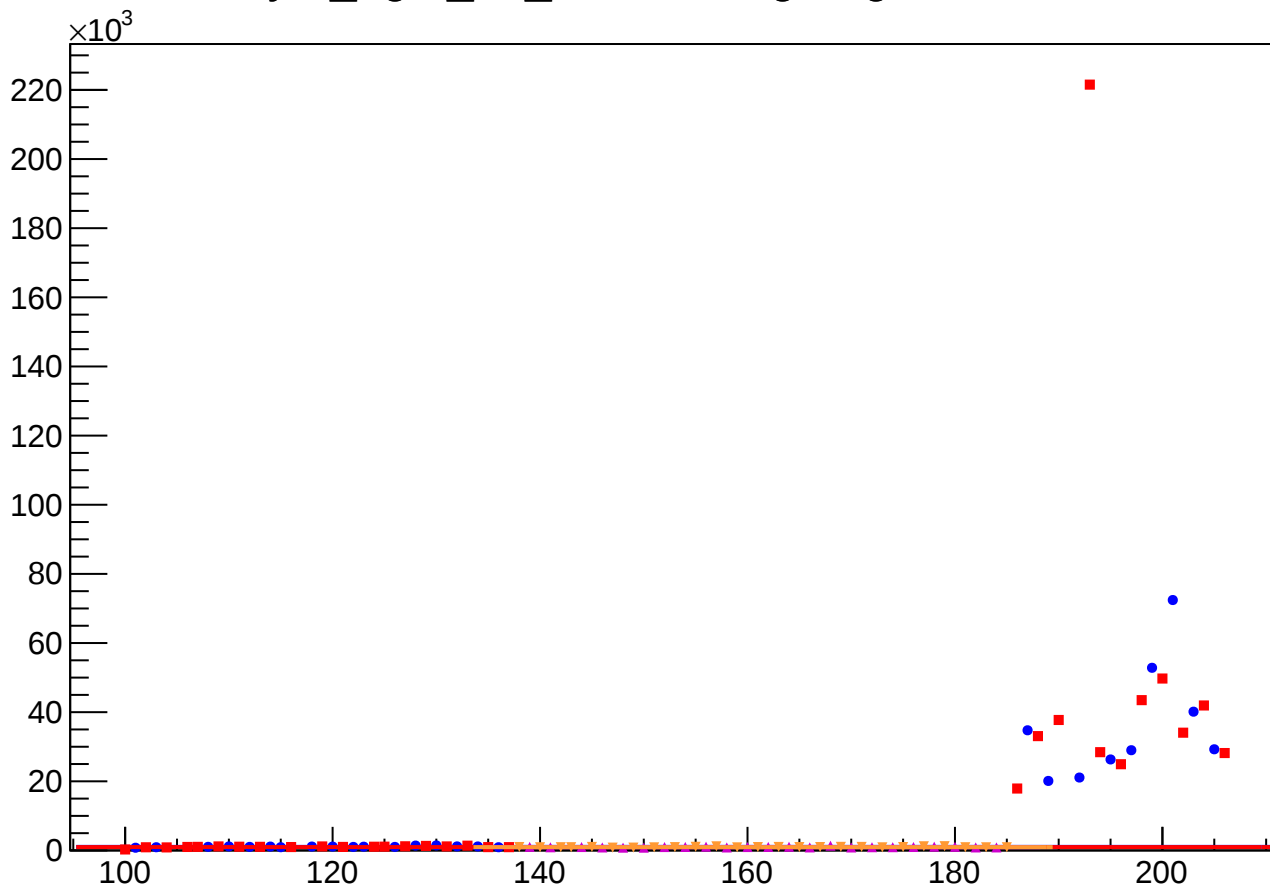
Right: 1396.055 $\pm$ 275.080 χ^2 /NDF: 45.8/54

In: 1260.090 $\pm$ 199.880 χ^2 /NDF:48.3/48

Out: 887.576 $\pm$ 193.566 χ^2 /NDF:44.0/53

All: 1067.856 $\pm$ 139.051 χ^2 /NDF: 94.0/102

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1035.644+/-0.285 χ^2/NDF : 4659516.1/25

Left Out: 962.776+/-0.160 χ^2/NDF : 362837.8/24

Right Out: 977.630+/-0.266 χ^2/NDF : 6354710.1/29

Left In: 955.331+/-0.163 χ^2/NDF : 443068.5/22

Left: 959.128+/-0.114 χ^2/NDF : 806973.3/47

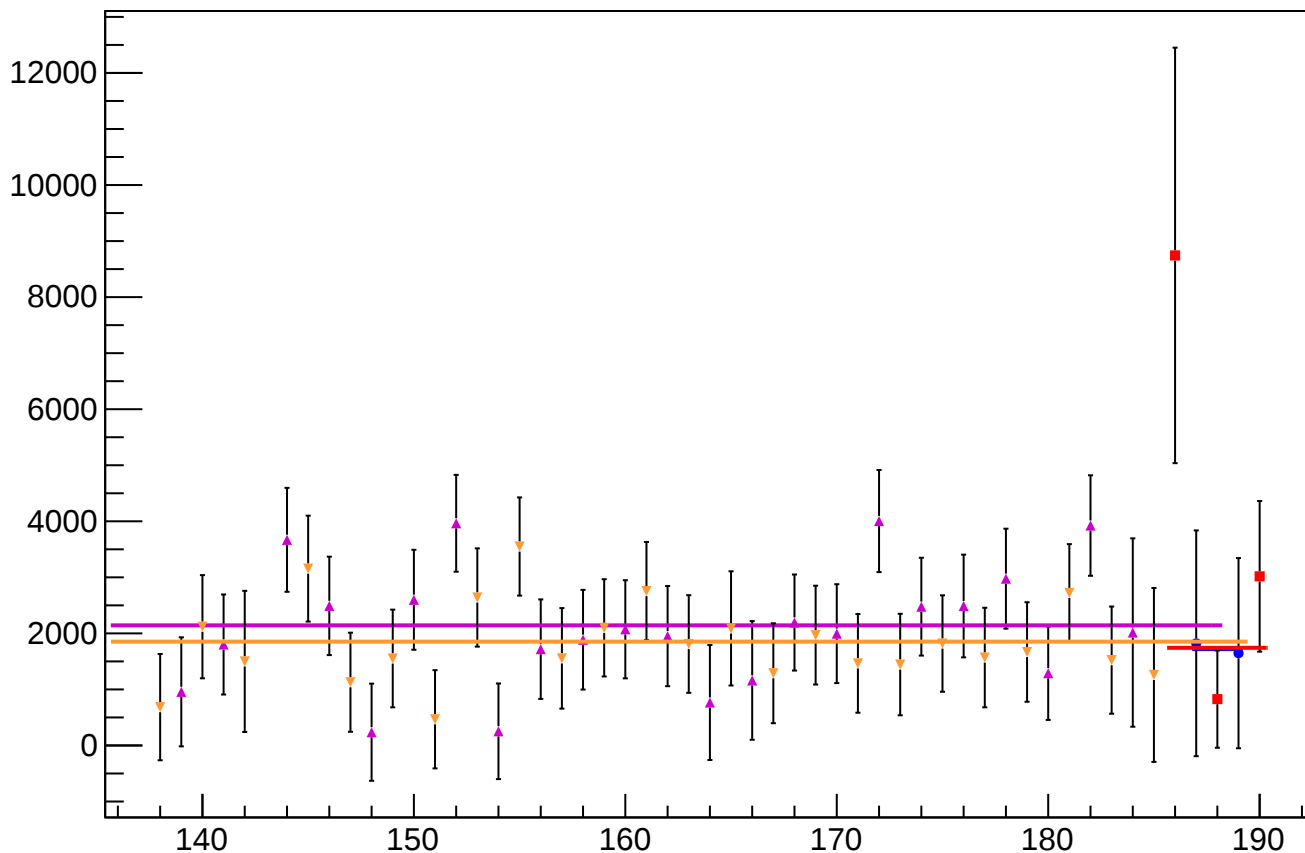
Right: 1004.688+/-0.195 χ^2/NDF : 11036365.6/55

In: 975.109+/-0.141 χ^2/NDF : 5162520.4/48

Out: 966.701+/-0.137 χ^2/NDF : 6719837.2/54

All: 970.770+/-0.098 χ^2/NDF : 11884183.9/10

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

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

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

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

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

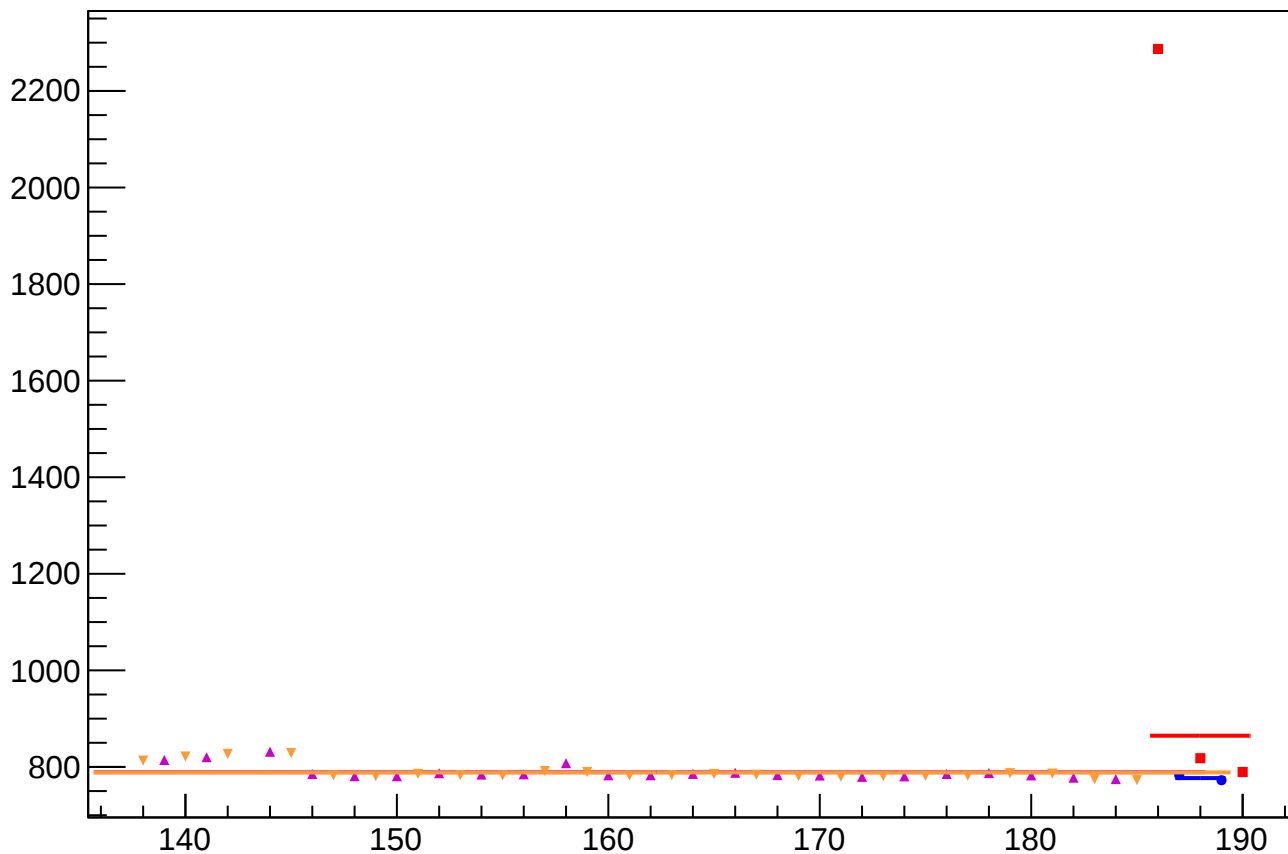
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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

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

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

cor_asym_us_avg_rms vs Slug, Sign Corrected



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

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

Right Out: 864.658 ± 0.506 χ^2/NDF : 306489.7/2

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

Left: 788.914 ± 0.094 χ^2/NDF : 22367.7/46

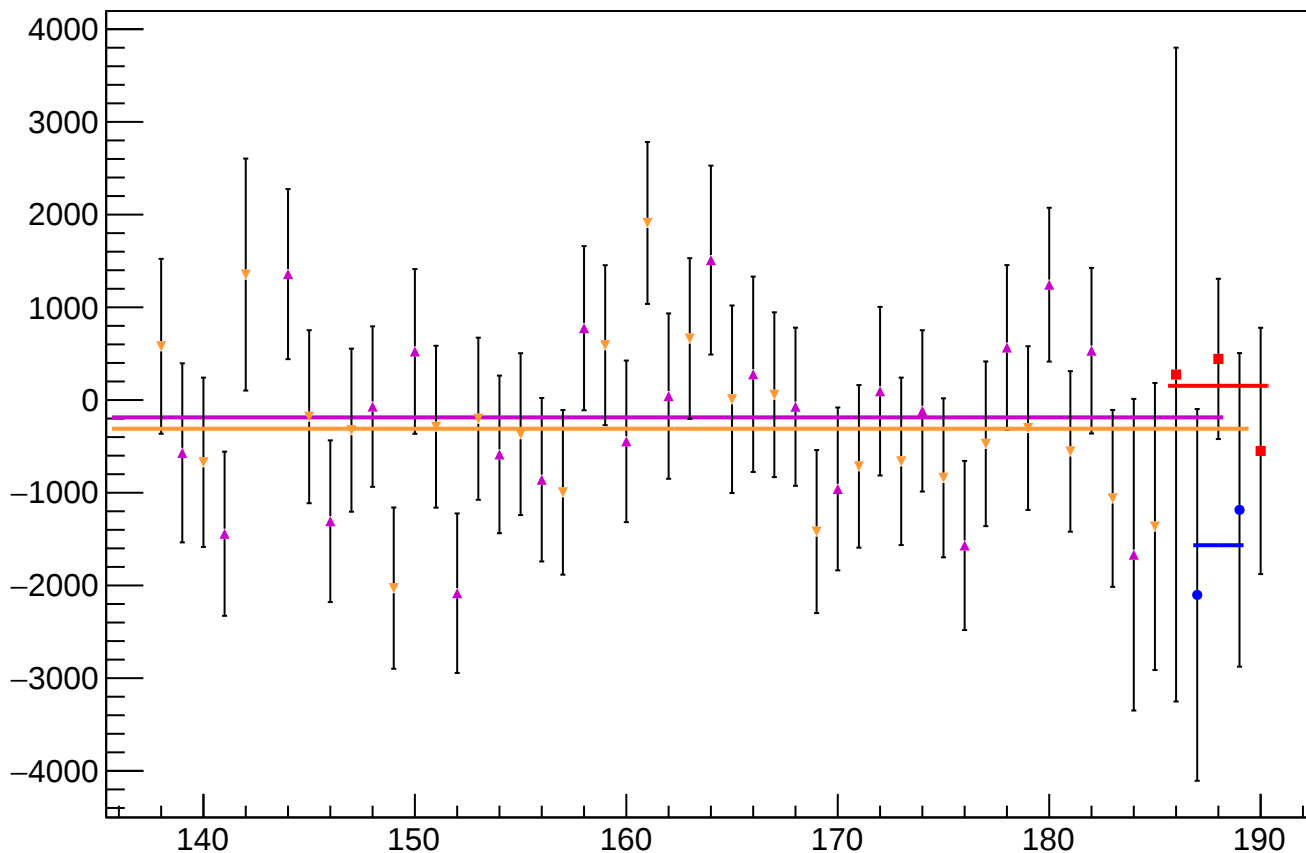
Right: 844.207 ± 0.443 χ^2/NDF : 313539.0/4

In: 788.918 ± 0.133 χ^2/NDF : 11068.4/24

Out: 793.541 ± 0.128 χ^2/NDF : 339118.2/26

All: 791.315 ± 0.092 χ^2/NDF : 350812.6/51

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

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

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

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

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

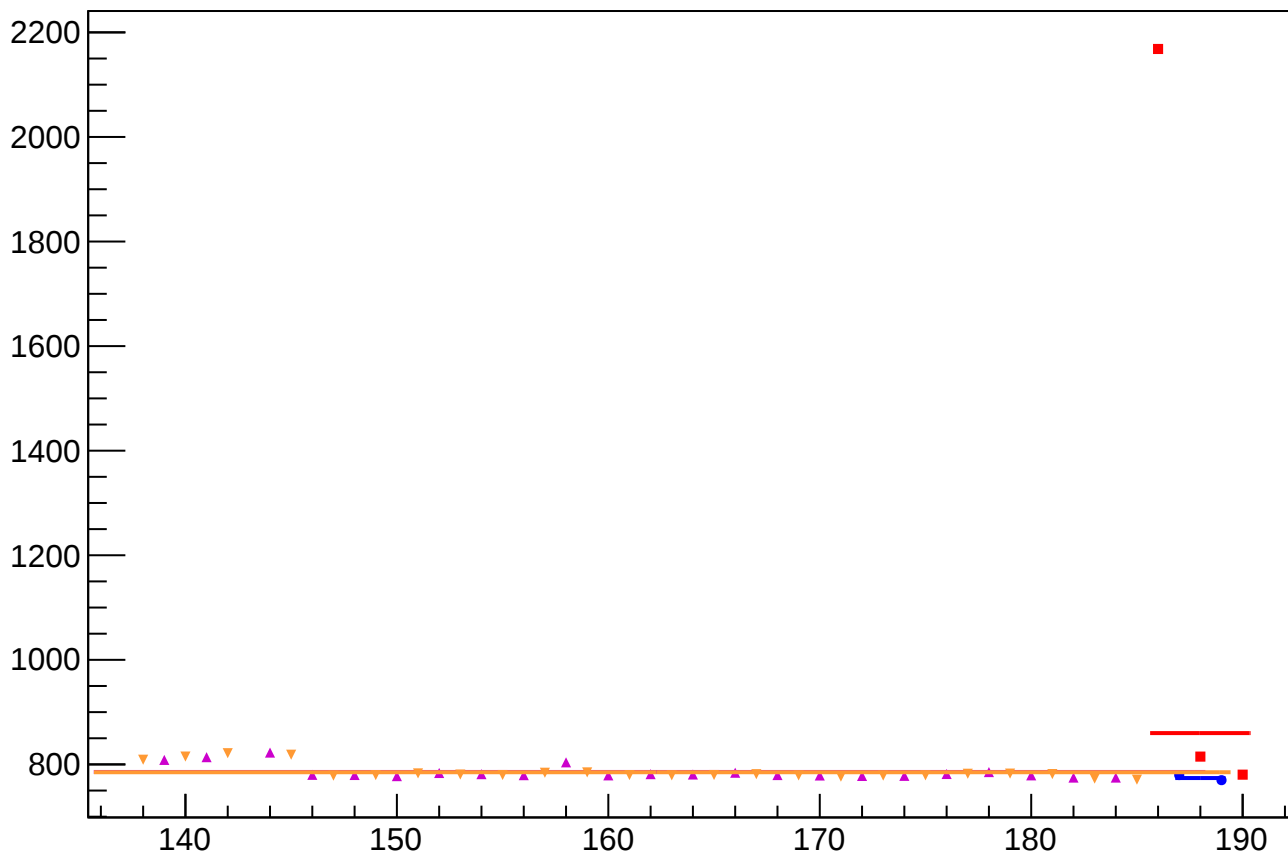
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

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

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

cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 773.922 $\pm$ 0.914 χ^2 /NDF: 27.7/1

Left Out: 785.050 $\pm$ 0.132 χ^2 /NDF: 9365.3/23

Right Out: 859.900 $\pm$ 0.502 χ^2 /NDF: 287948.2/2

Left In: 785.562 $\pm$ 0.134 χ^2 /NDF: 9033.0/22

Left: 785.302 $\pm$ 0.094 χ^2 /NDF: 18405.7/46

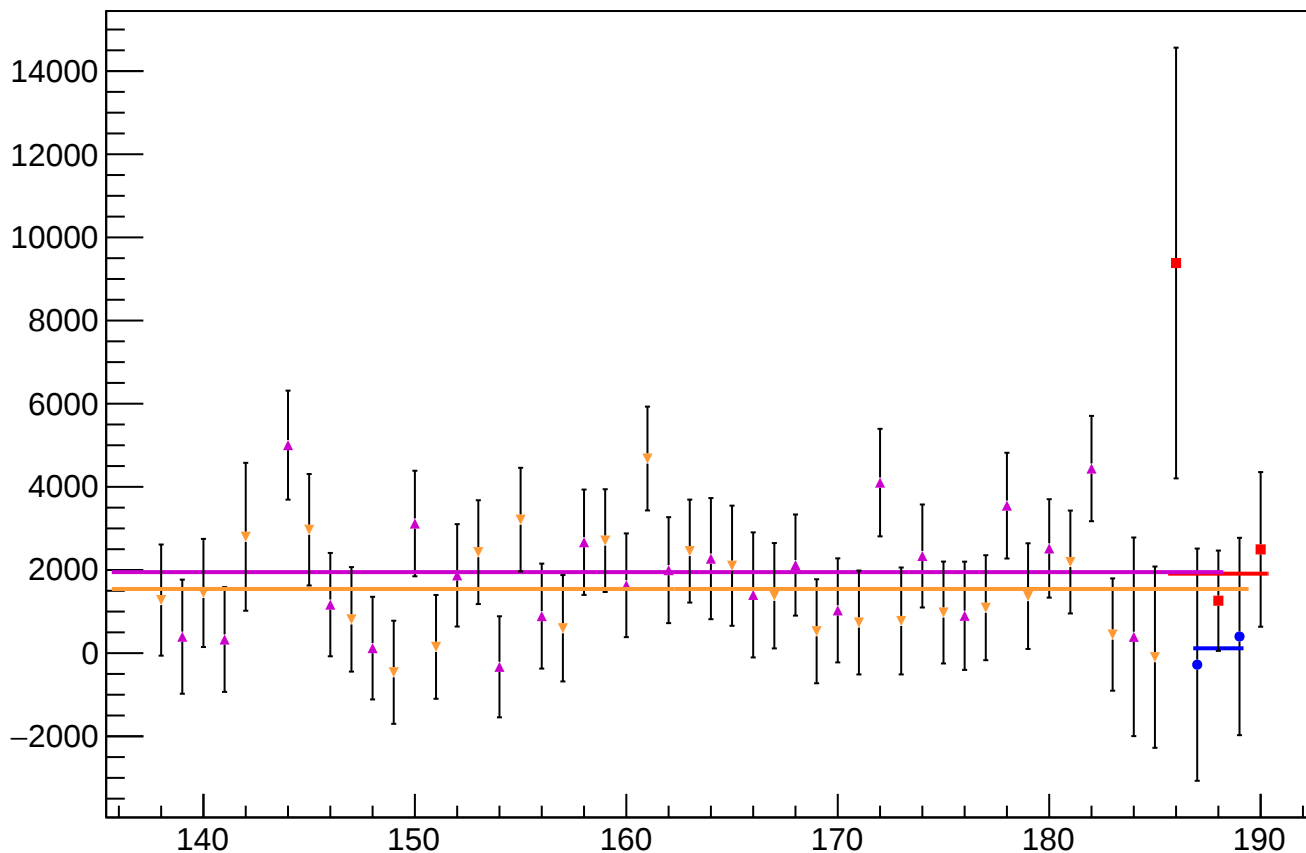
Right: 839.990 $\pm$ 0.440 χ^2 /NDF: 294774.5/4

In: 785.318 $\pm$ 0.132 χ^2 /NDF: 9219.5/24

Out: 789.888 $\pm$ 0.128 χ^2 /NDF: 318126.2/26

All: 787.688 $\pm$ 0.092 χ^2 /NDF: 327963.5/51

cor_asym_usl_mean vs Slug, Sign Corrected



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

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

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

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

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

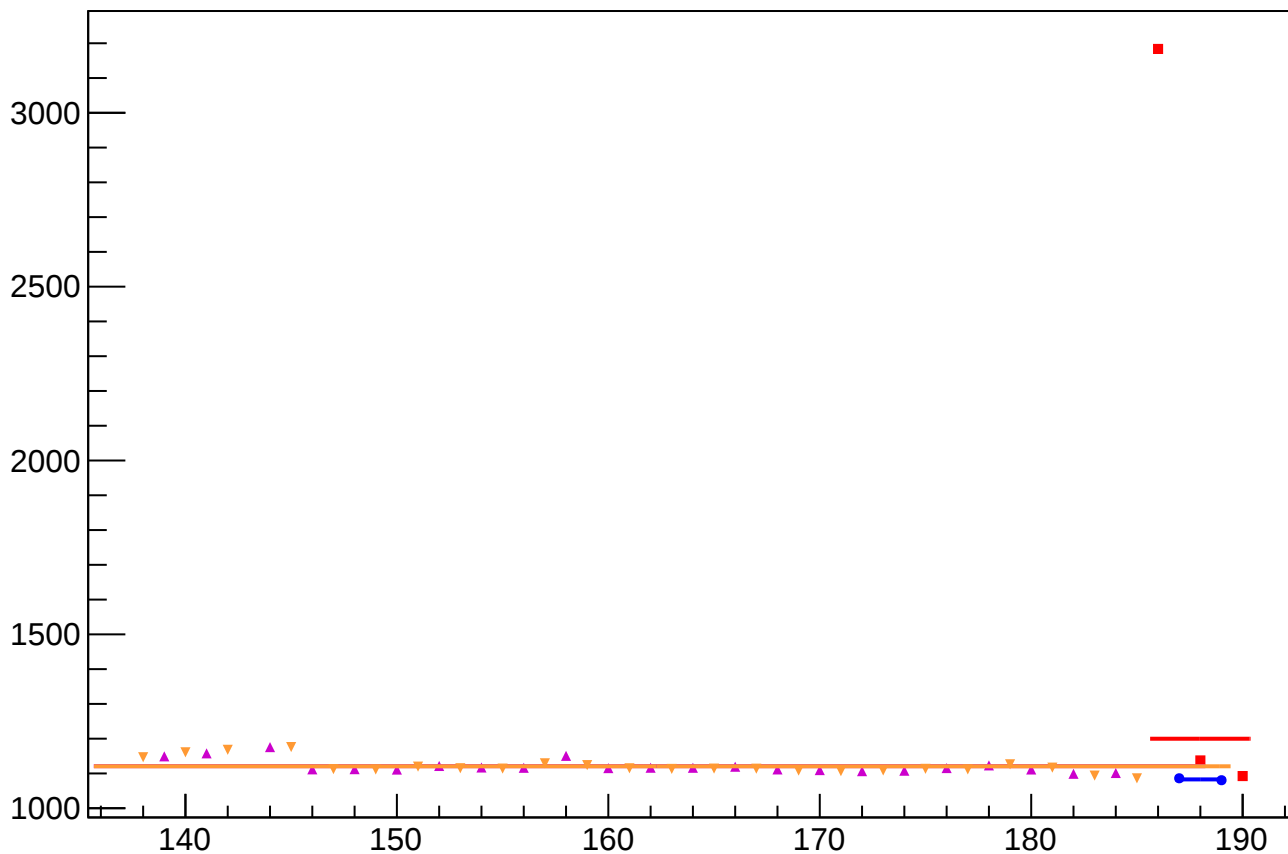
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

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

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

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1082.866 $\pm$ 1.279 χ^2 /NDF: 4.6/1

Left Out: 1120.578 $\pm$ 0.188 χ^2 /NDF:10264.0/23

Right Out: 1199.844 $\pm$ 0.702 χ^2 /NDF: 305356.1/2

Left In: 1120.977 $\pm$ 0.191 χ^2 /NDF:9259.6/22

Left: 1120.775 $\pm$ 0.134 χ^2 /NDF: 19525.9/46

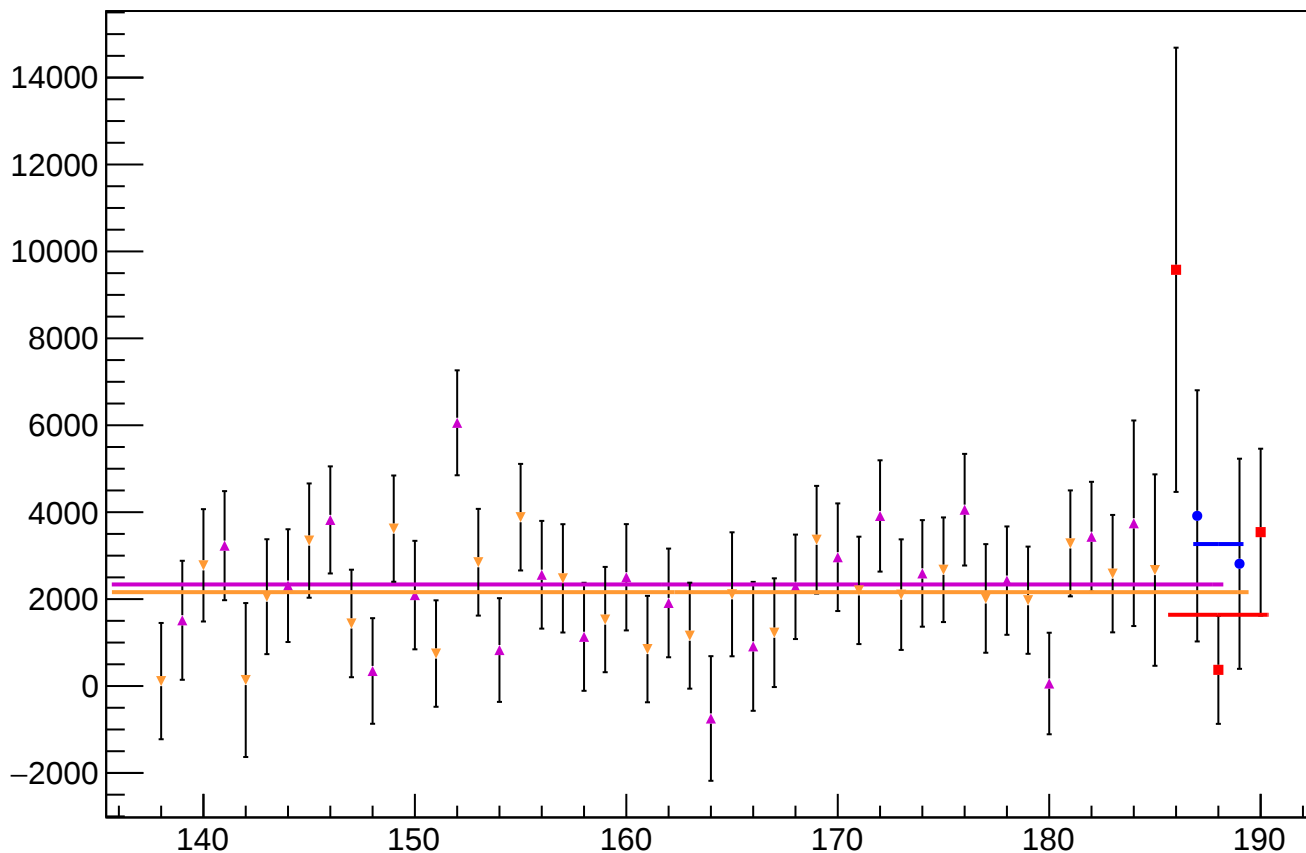
Right: 1172.741 $\pm$ 0.616 χ^2 /NDF: 311788.3/4

In: 1120.146 $\pm$ 0.189 χ^2 /NDF:10132.9/24

Out: 1125.893 $\pm$ 0.182 χ^2 /NDF:327503.8/26

All: 1123.129 $\pm$ 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

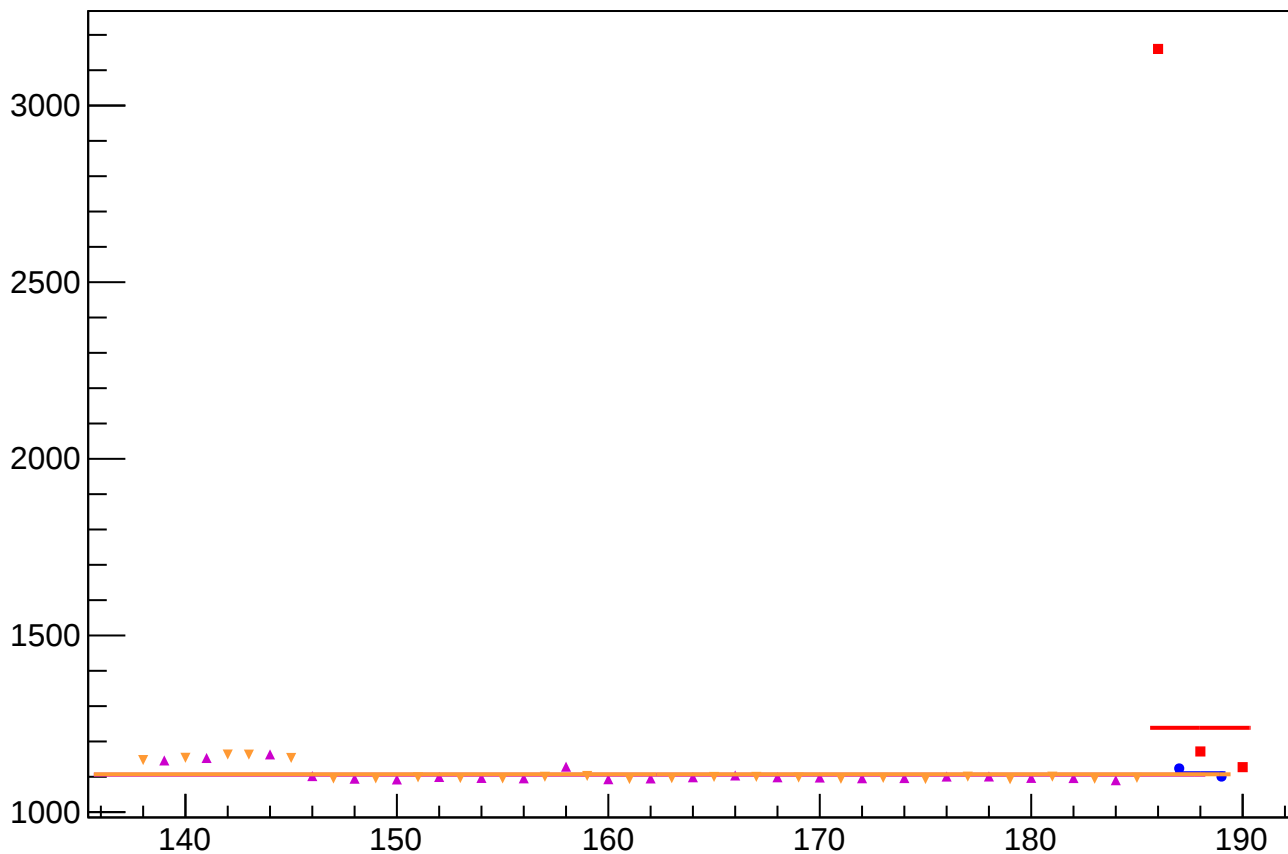
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

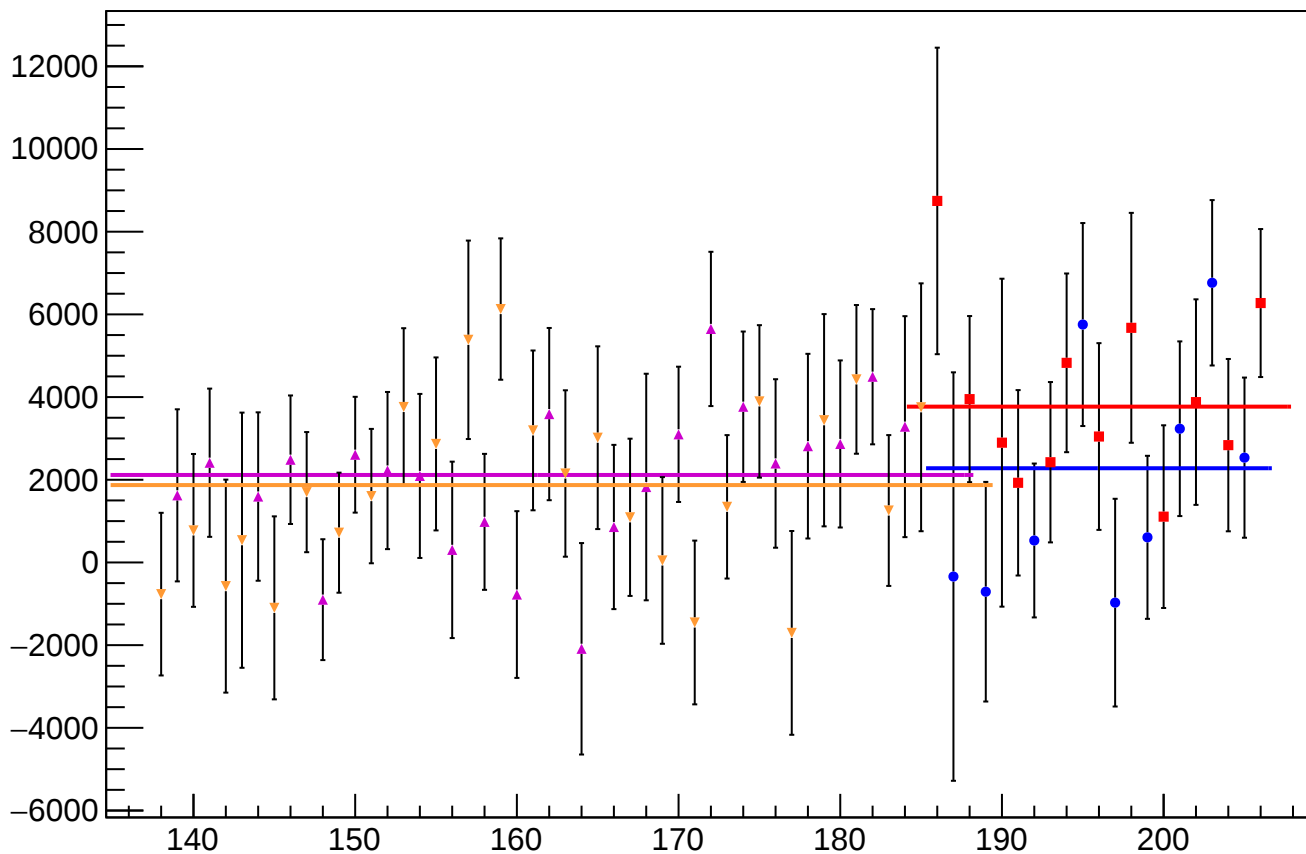
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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: 2278.760 $\pm$ 746.672 χ^2 /NDF: 12.1/8

Left Out: 1871.638 $\pm$ 391.684 χ^2 /NDF:26.1/24

Right Out: 3768.708 $\pm$ 659.748 χ^2 /NDF: 7.4/11

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

Left: 1993.467 $\pm$ 277.425 χ^2 /NDF: 45.1/47

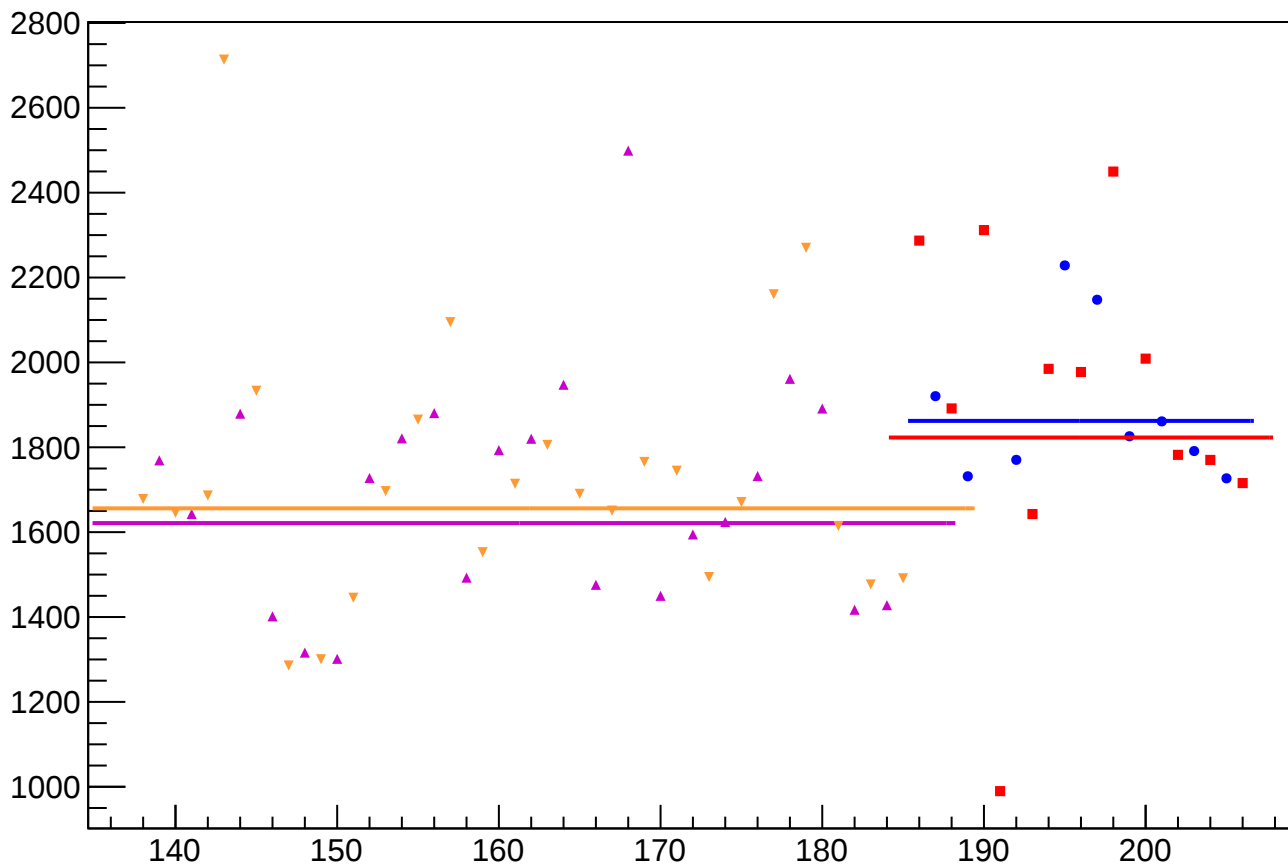
Right: 3115.470 $\pm$ 494.402 χ^2 /NDF: 21.7/20

In: 2151.397 $\pm$ 347.768 χ^2 /NDF:30.9/31

Out: 2366.031 $\pm$ 336.800 χ^2 /NDF:39.7/36

All: 2262.152 $\pm$ 241.938 χ^2 /NDF: 70.8/68

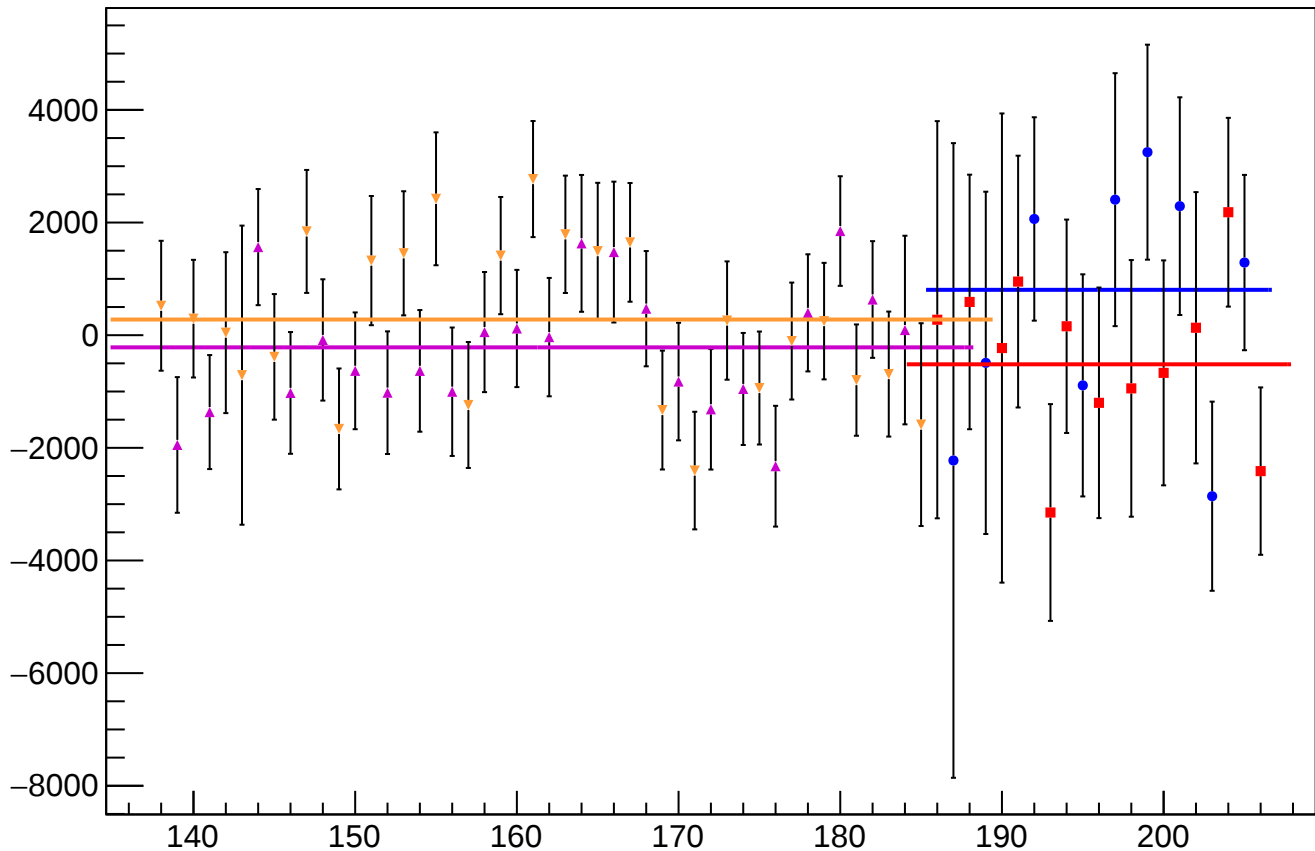
asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1862.189 $\pm$ 0.528 χ^2 /NDF: 93310.3/8
 Left Out: 1656.119 $\pm$ 0.277 χ^2 /NDF: 910573.4/24
 Right Out: 1822.986 $\pm$ 0.467 χ^2 /NDF: 502848.0/11
 Left In: 1621.417 $\pm$ 0.278 χ^2 /NDF: 775310.1/22

Left: 1638.826 $\pm$ 0.196 χ^2 /NDF: 1693706.9/47
 Right: 1840.174 $\pm$ 0.350 χ^2 /NDF: 599254.5/20
 In: 1673.648 $\pm$ 0.246 χ^2 /NDF: 1031469.1/31
 Out: 1699.606 $\pm$ 0.238 χ^2 /NDF: 1508020.3/36
 All: 1687.043 $\pm$ 0.171 χ^2 /NDF: 2545239.5/68

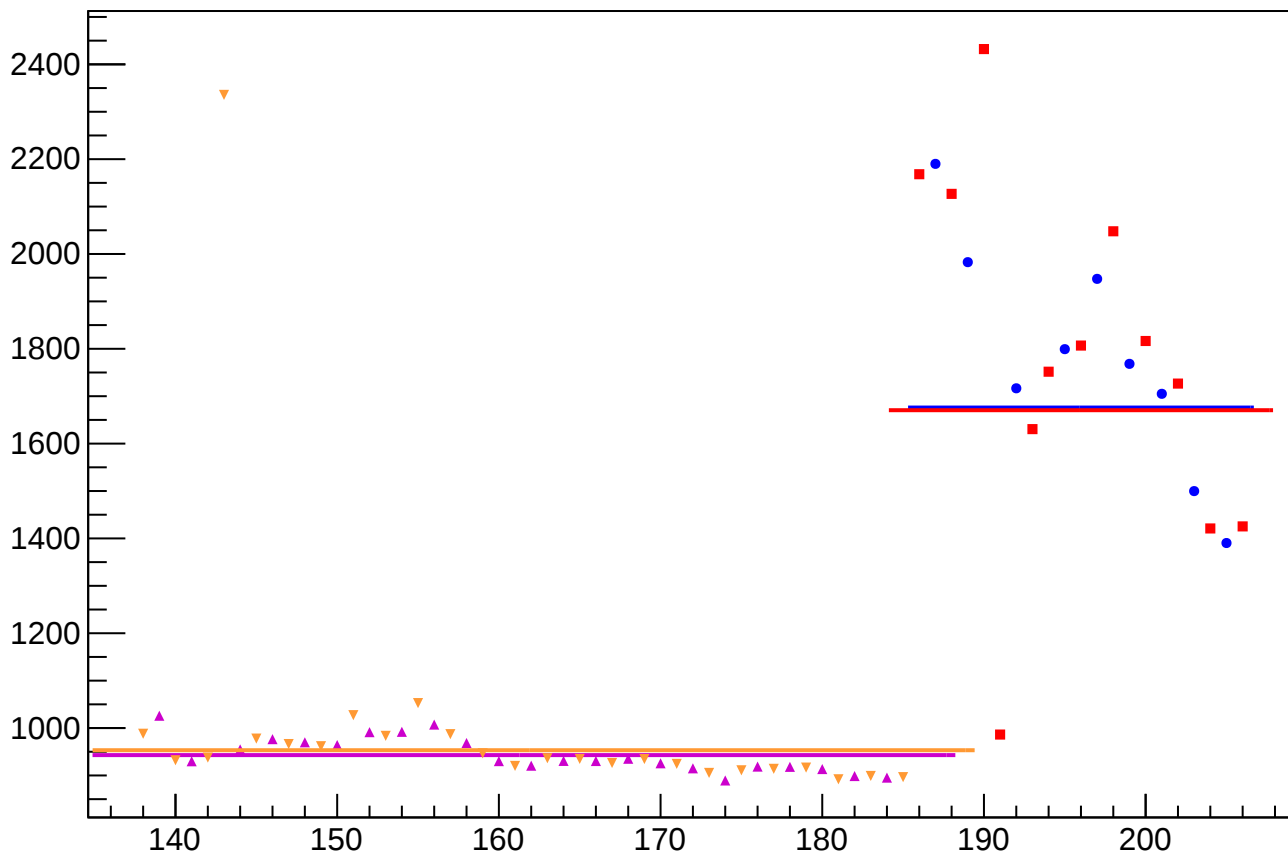
asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 805.475 ± 672.414 $\chi^2/\text{NDF}: 9.3/8$
 Left Out: 278.090 ± 223.581 $\chi^2/\text{NDF}: 38.4/24$
 Right Out: -517.032 ± 603.459 $\chi^2/\text{NDF}: 7.2/11$
 Left In: -216.121 ± 225.600 $\chi^2/\text{NDF}: 24.4/22$

Left: 33.207 ± 158.805 $\chi^2/\text{NDF}: 65.2/47$
 Right: 72.954 ± 449.116 $\chi^2/\text{NDF}: 18.6/20$
 In: -112.759 ± 213.883 $\chi^2/\text{NDF}: 35.8/31$
 Out: 182.118 ± 209.654 $\chi^2/\text{NDF}: 47.1/36$
 All: 37.624 ± 149.721 $\chi^2/\text{NDF}: 83.9/68$

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1676.054+/-0.475 χ^2/NDF : 169633.5/8

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

Right Out: 1670.460+/-0.427 χ^2/NDF : 554495.3/11

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

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

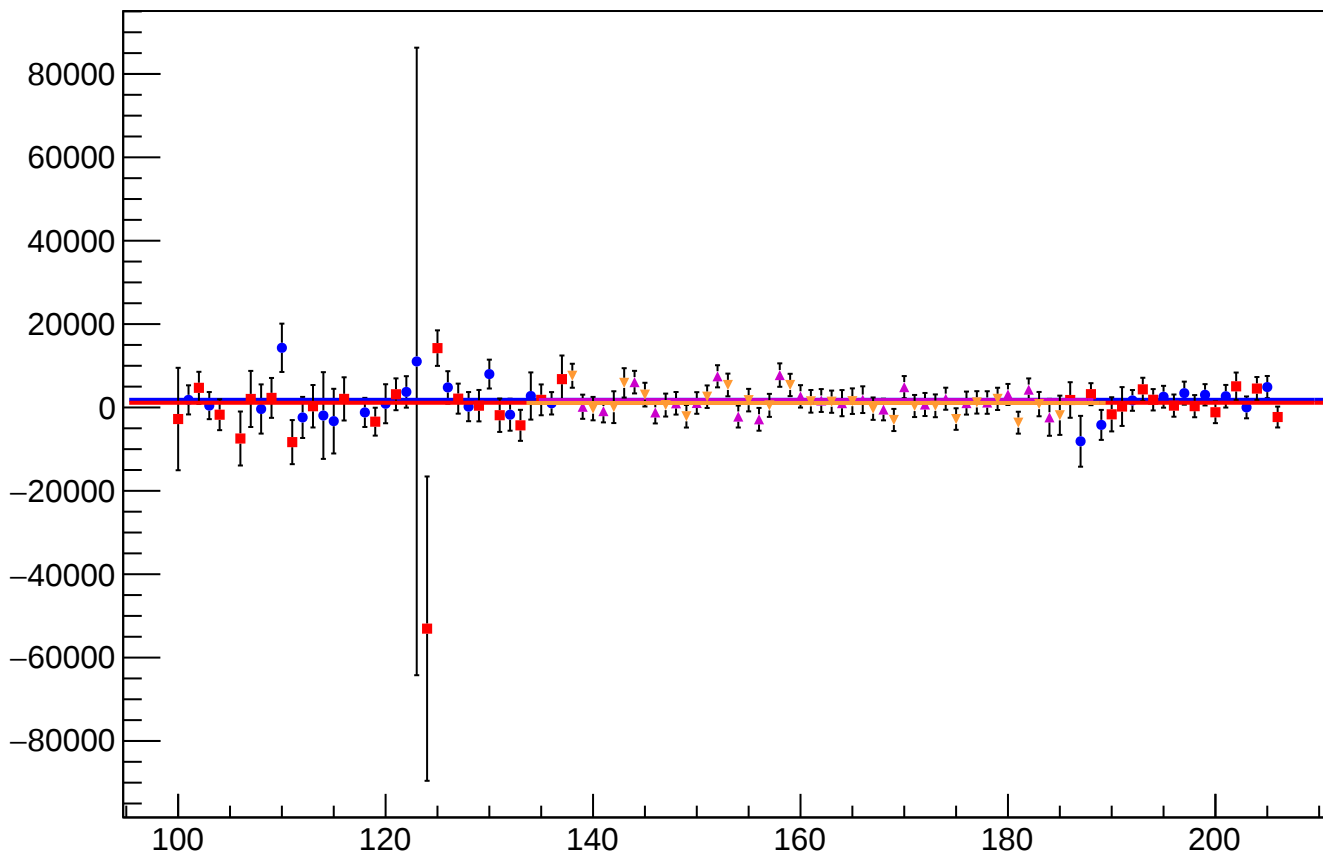
Right: 1672.956+/-0.318 χ^2/NDF : 724205.4/20

In: 1017.102+/-0.151 χ^2/NDF : 2354962.1/31

Out: 1039.792+/-0.148 χ^2/NDF : 3645044.8/36

All: 1028.674+/-0.106 χ^2/NDF : 6011486.5/68

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1837.933+/-692.118 χ^2/NDF : 20.3/25

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

Right Out: 1126.282+/-653.147 χ^2/NDF : 32.5/30

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

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

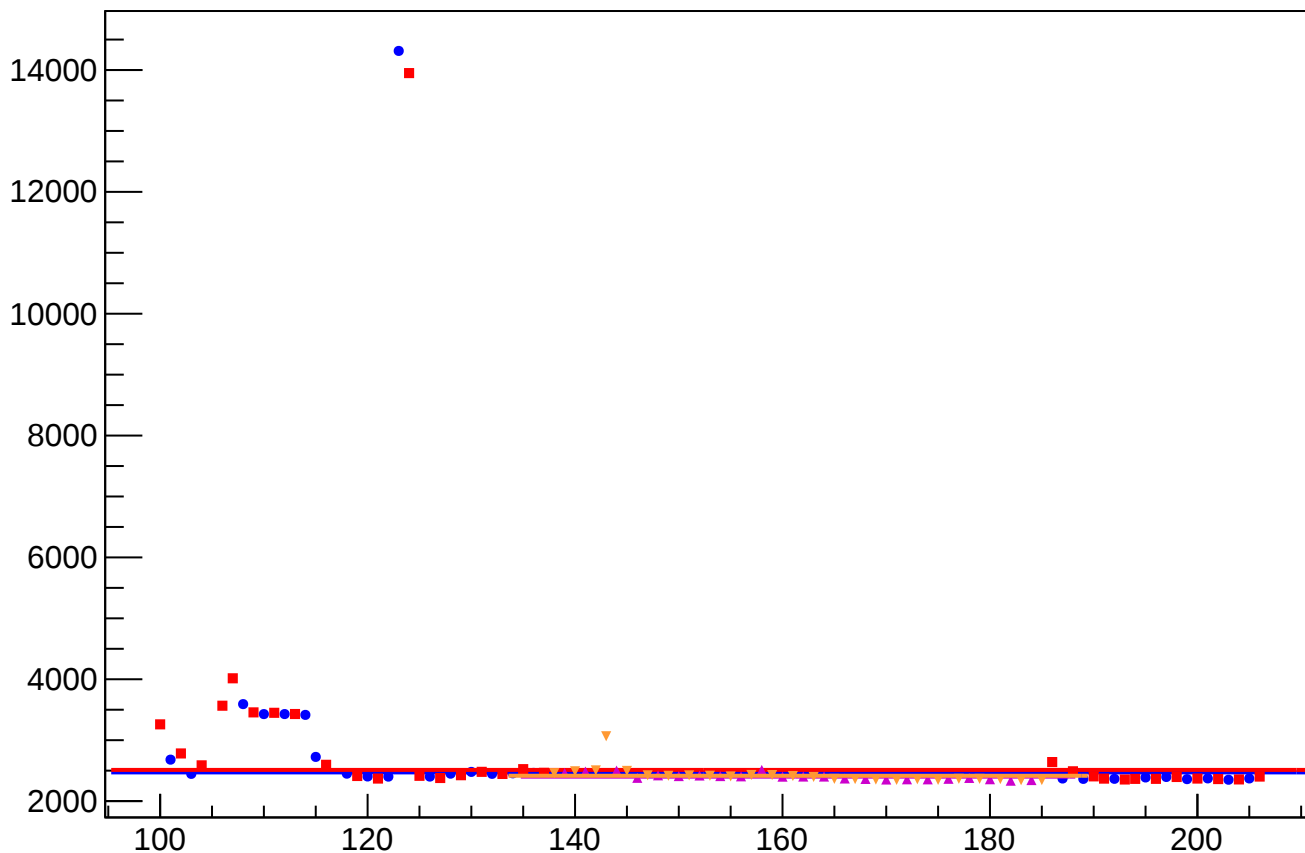
Right: 1461.508+/-475.024 χ^2/NDF : 53.4/56

In: 1801.987+/-442.688 χ^2/NDF : 44.4/48

Out: 1098.655+/-426.877 χ^2/NDF : 56.1/55

All: 1437.536+/-307.285 χ^2/NDF : 101.8/104

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2471.124+/-0.489 χ^2/NDF : 302327.5/25

Left Out: 2416.019+/-0.399 χ^2/NDF : 82636.1/24

Right Out: 2512.040+/-0.462 χ^2/NDF : 632089.8/30

Left In: 2401.422+/-0.407 χ^2/NDF : 13747.6/22

Left: 2408.873+/-0.285 χ^2/NDF : 97039.6/47

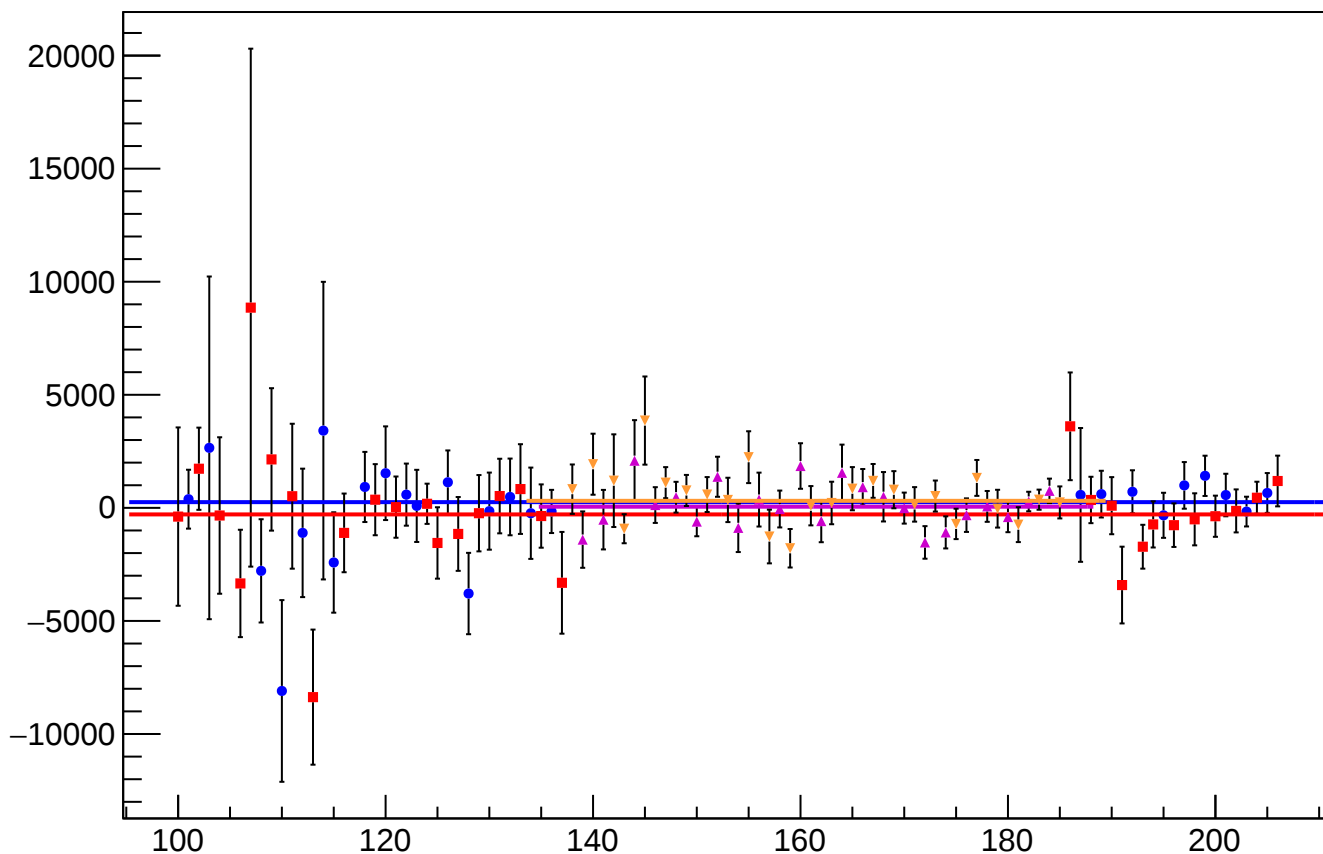
Right: 2492.767+/-0.336 χ^2/NDF : 938114.5/56

In: 2429.937+/-0.313 χ^2/NDF : 328061.3/48

Out: 2457.035+/-0.302 χ^2/NDF : 739487.5/55

All: 2443.979+/-0.217 χ^2/NDF : 1071431.9/10

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 253.046 $\pm$ 252.151 χ^2 /NDF: 18.2/25

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

Right Out: -289.882 $\pm$ 242.442 χ^2 /NDF: 27.6/30

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

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

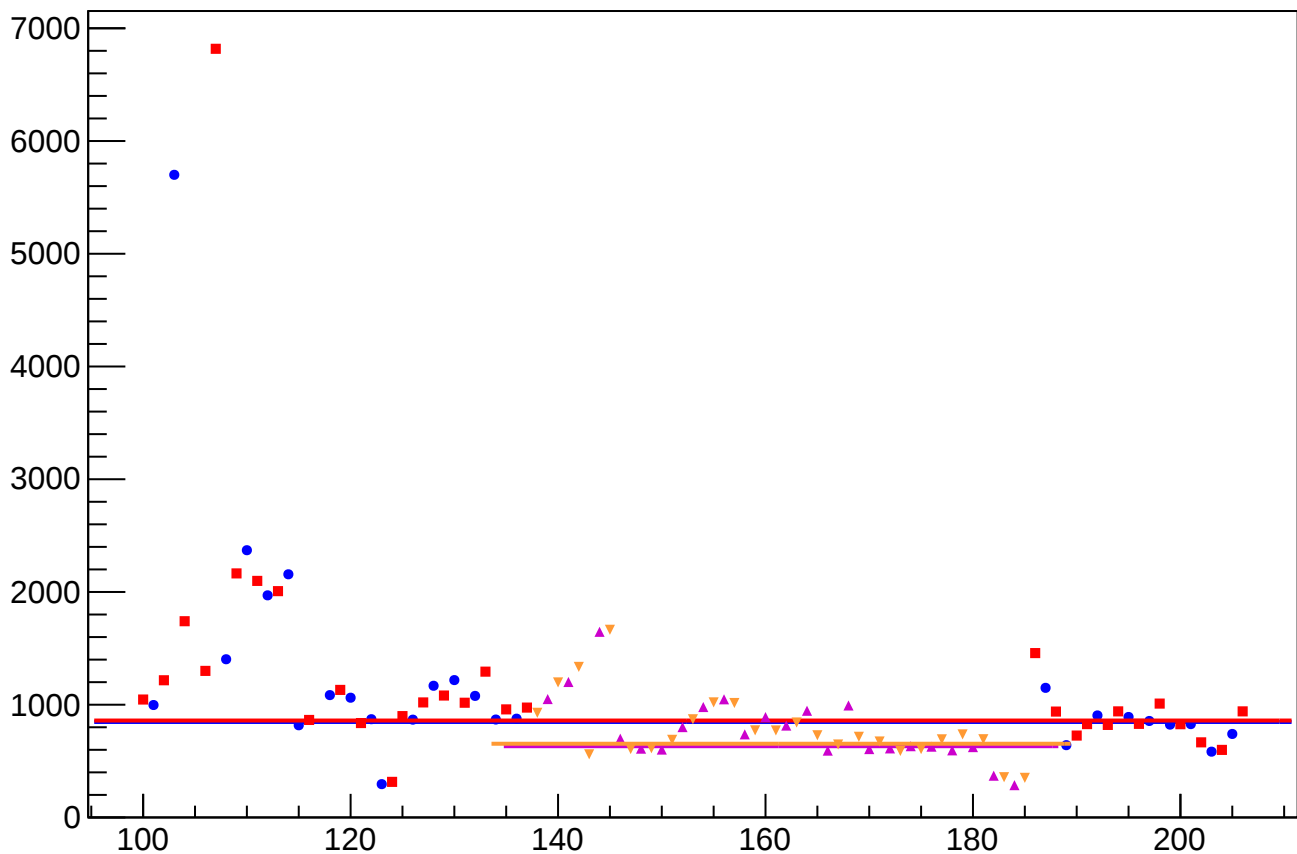
Right: -29.072 $\pm$ 174.764 χ^2 /NDF: 48.1/56

In: 110.221 $\pm$ 136.142 χ^2 /NDF:42.5/48

Out: 127.574 $\pm$ 133.918 χ^2 /NDF:61.6/55

All: 119.041 $\pm$ 95.471 χ^2 /NDF: 104.0/104

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 846.949 $\pm$ 0.178 χ^2 /NDF: 2616751.5/25

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

Right Out: 859.752 $\pm$ 0.171 χ^2 /NDF: 3331877.4/30

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

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

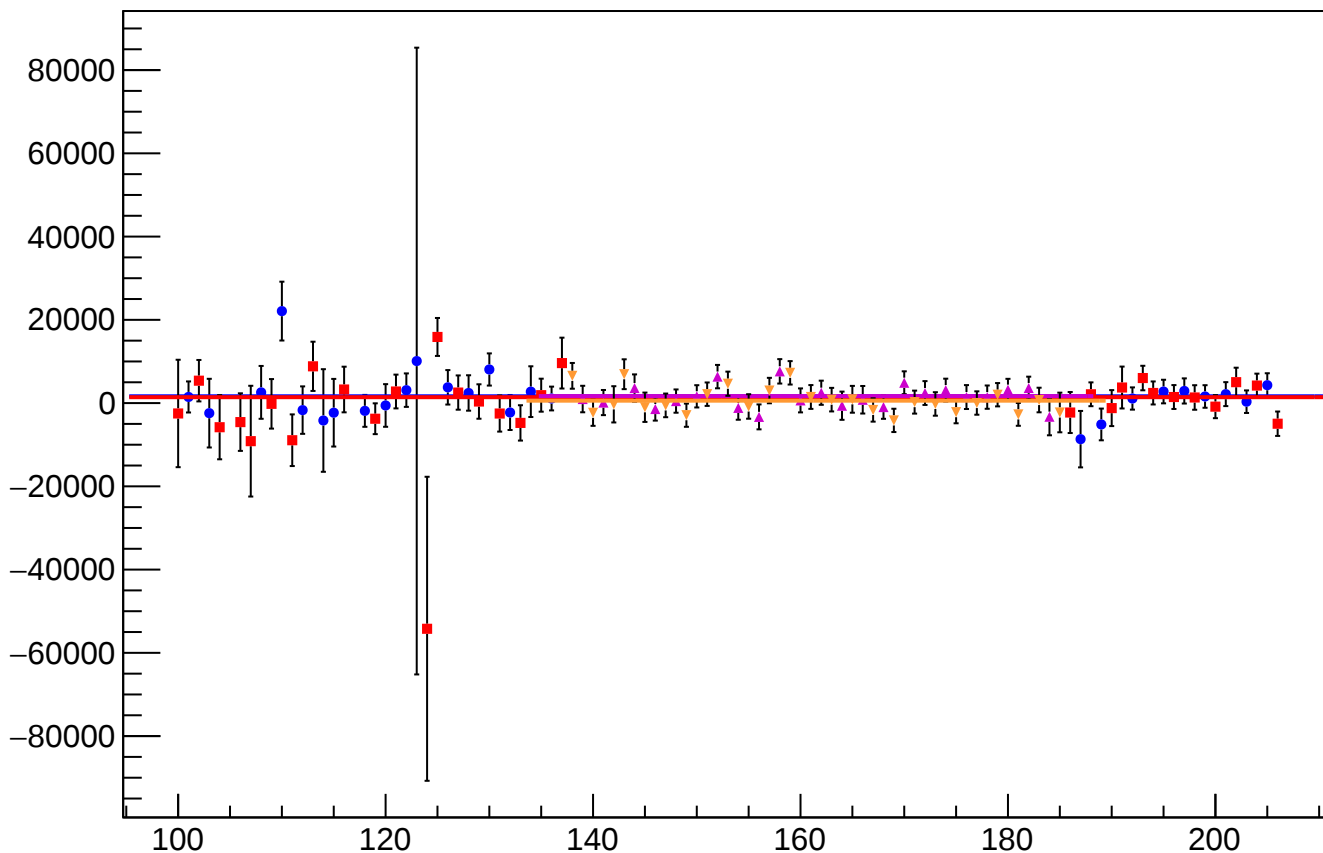
Right: 853.602 $\pm$ 0.124 χ^2 /NDF: 5951308.1/56

In: 694.699 $\pm$ 0.096 χ^2 /NDF: 7588798.6/48

Out: 716.641 $\pm$ 0.095 χ^2 /NDF: 7589454.5/55

All: 705.851 $\pm$ 0.068 χ^2 /NDF: 15204655.6/100

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1634.005 $\pm$ 762.803 χ^2 /NDF: 21.6/25

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

Right Out: 1417.065 $\pm$ 726.252 χ^2 /NDF: 38.1/30

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

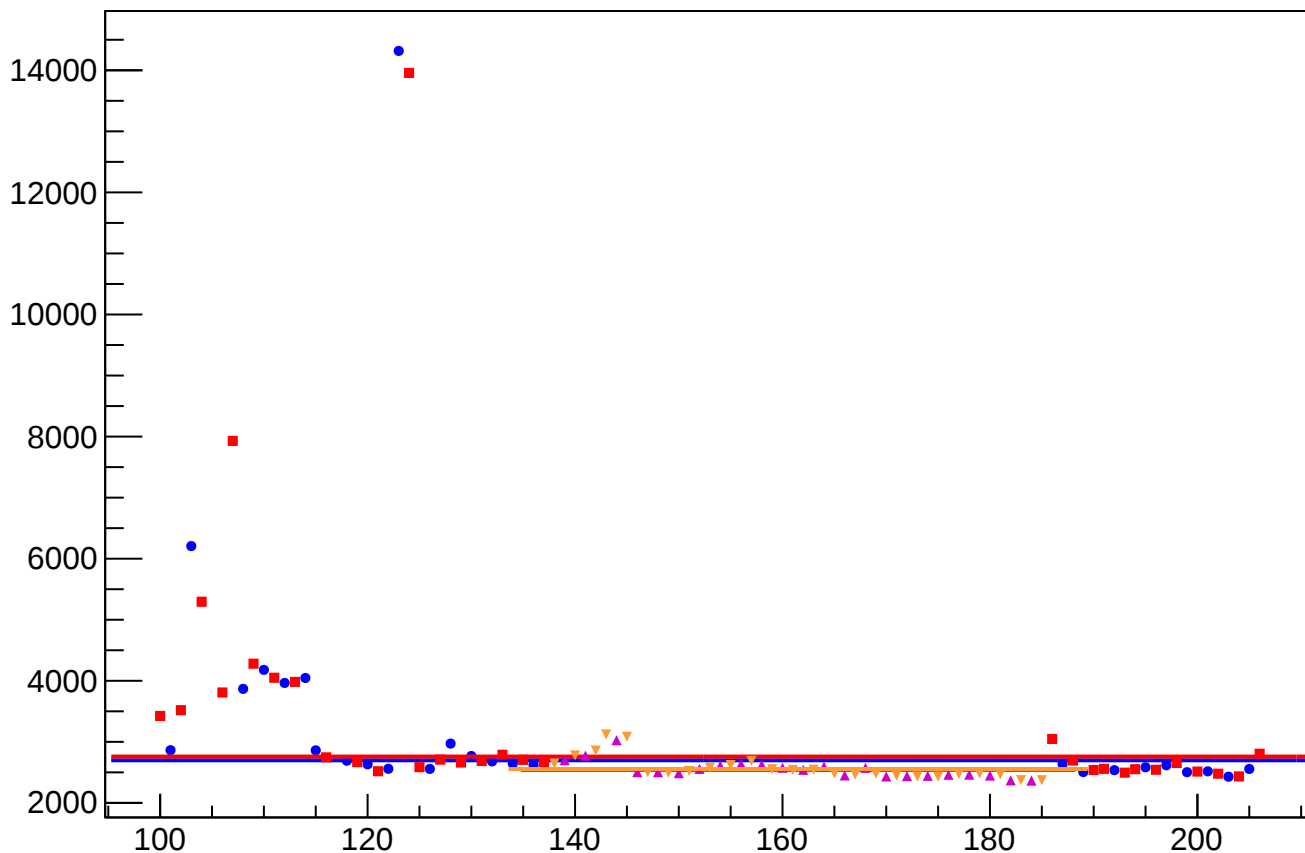
Right: 1520.213 $\pm$ 525.985 χ^2 /NDF: 59.7/56

In: 1661.795 $\pm$ 476.456 χ^2 /NDF: 39.8/48

Out: 918.184 $\pm$ 461.262 χ^2 /NDF: 64.2/55

All: 1277.943 $\pm$ 331.403 χ^2 /NDF: 105.2/104

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2697.813+/-0.539 χ^2/NDF : 768398.4/25

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

Right Out: 2758.933+/-0.514 χ^2/NDF : 1234221.4/30

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

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

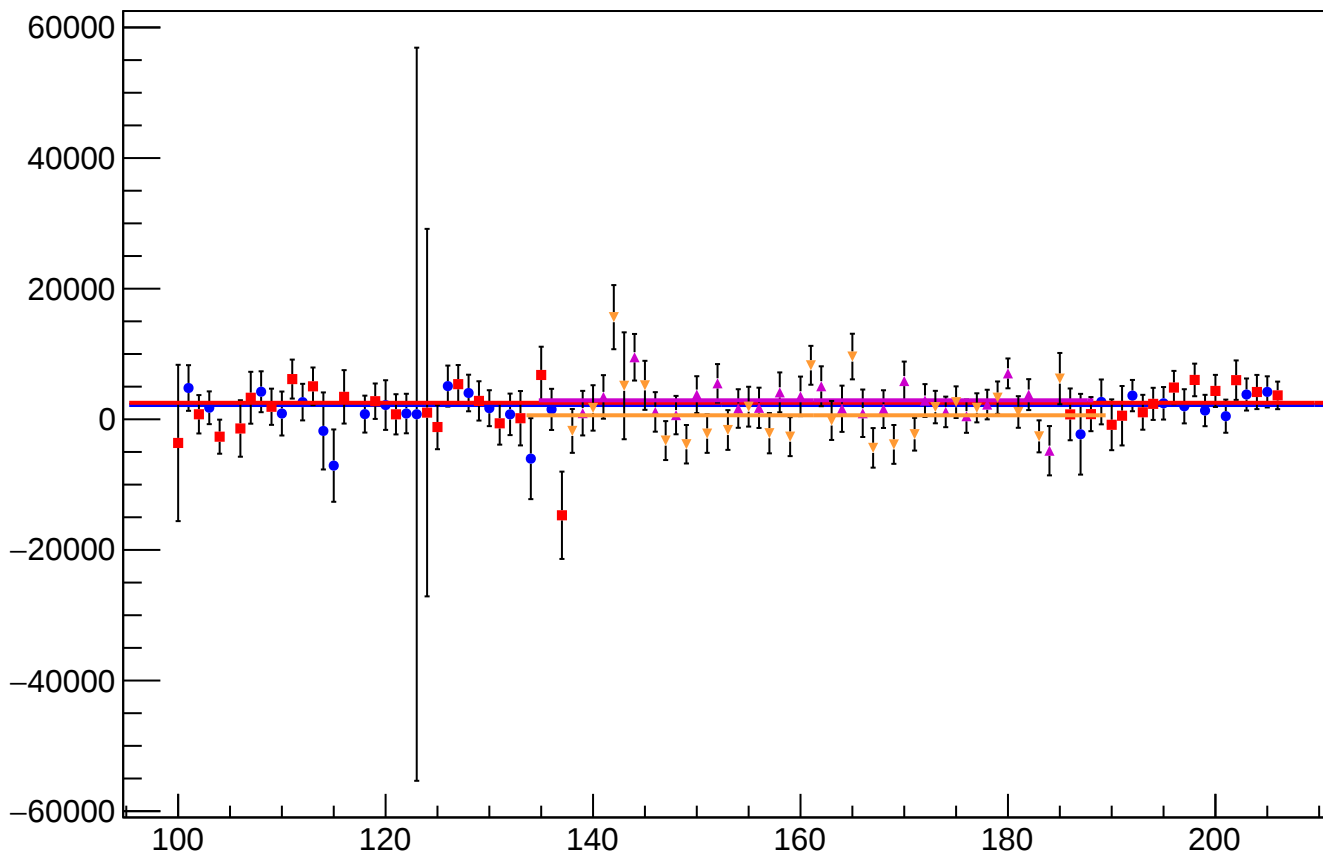
Right: 2729.872+/-0.372 χ^2/NDF : 2009355.0/56

In: 2602.172+/-0.337 χ^2/NDF :914709.5/48

Out: 2637.430+/-0.326 χ^2/NDF :1482793.7/55

All: 2620.372+/-0.234 χ^2/NDF : 2403156.9/100

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2187.433+/-600.416 χ^2/NDF : 10.8/25

Left Out: 614.867+/-591.148 χ^2/NDF : 45.2/24

Right Out: 2526.411+/-560.540 χ^2/NDF : 26.4/30

Left In: 2909.108+/-599.673 χ^2/NDF : 17.4/22

Left: 1745.562+/-420.986 χ^2/NDF : 70.0/47

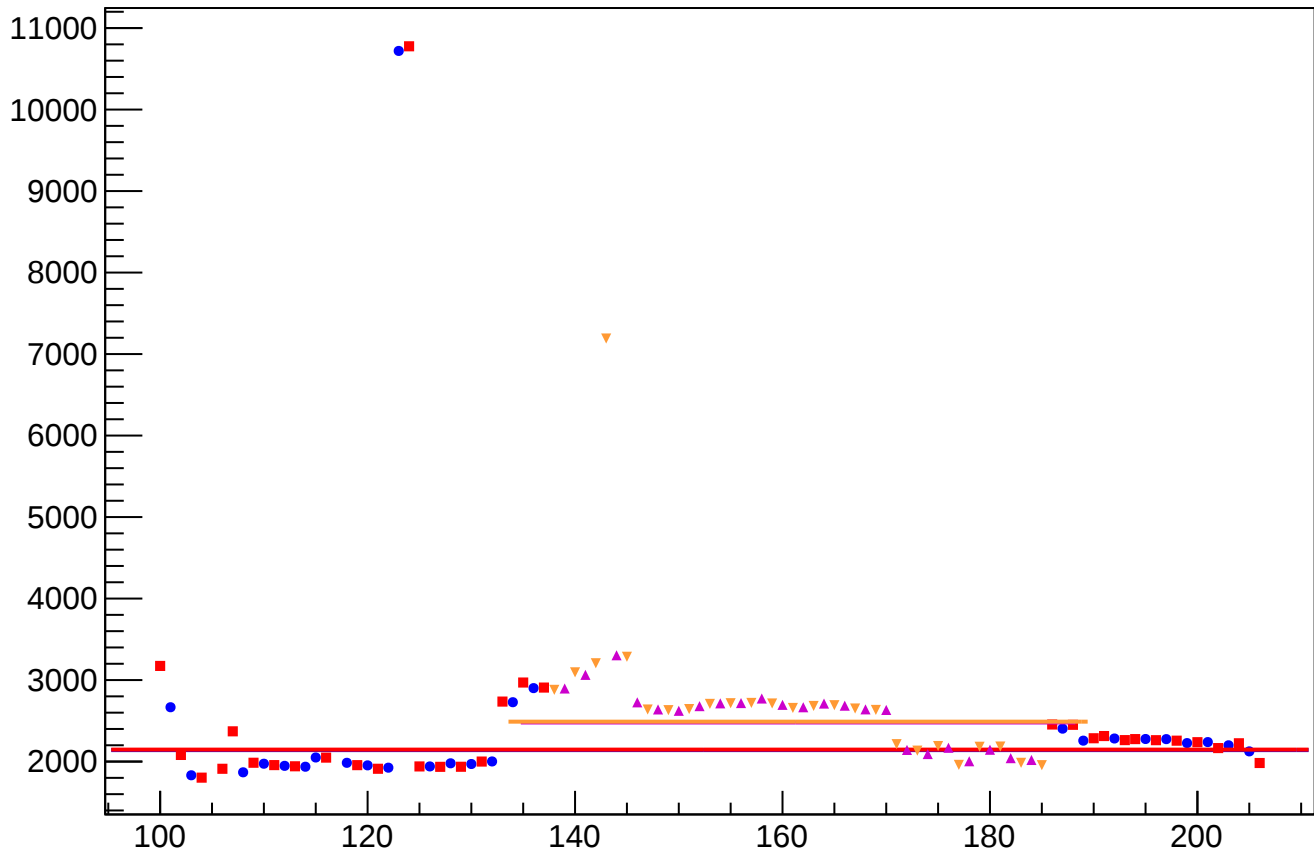
Right: 2368.552+/-409.734 χ^2/NDF : 37.4/56

In: 2548.717+/-424.295 χ^2/NDF : 28.9/48

Out: 1621.406+/-406.752 χ^2/NDF : 77.1/55

All: 2065.494+/-293.623 χ^2/NDF : 108.5/104

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2140.507+/-0.425 χ^2/NDF : 367965.9/25

Left Out: 2489.577+/-0.418 χ^2/NDF : 1364203.3/24

Right Out: 2146.520+/-0.396 χ^2/NDF : 547033.7/30

Left In: 2479.348+/-0.424 χ^2/NDF : 668398.2/22

Left: 2484.536+/-0.298 χ^2/NDF : 2032896.6/47

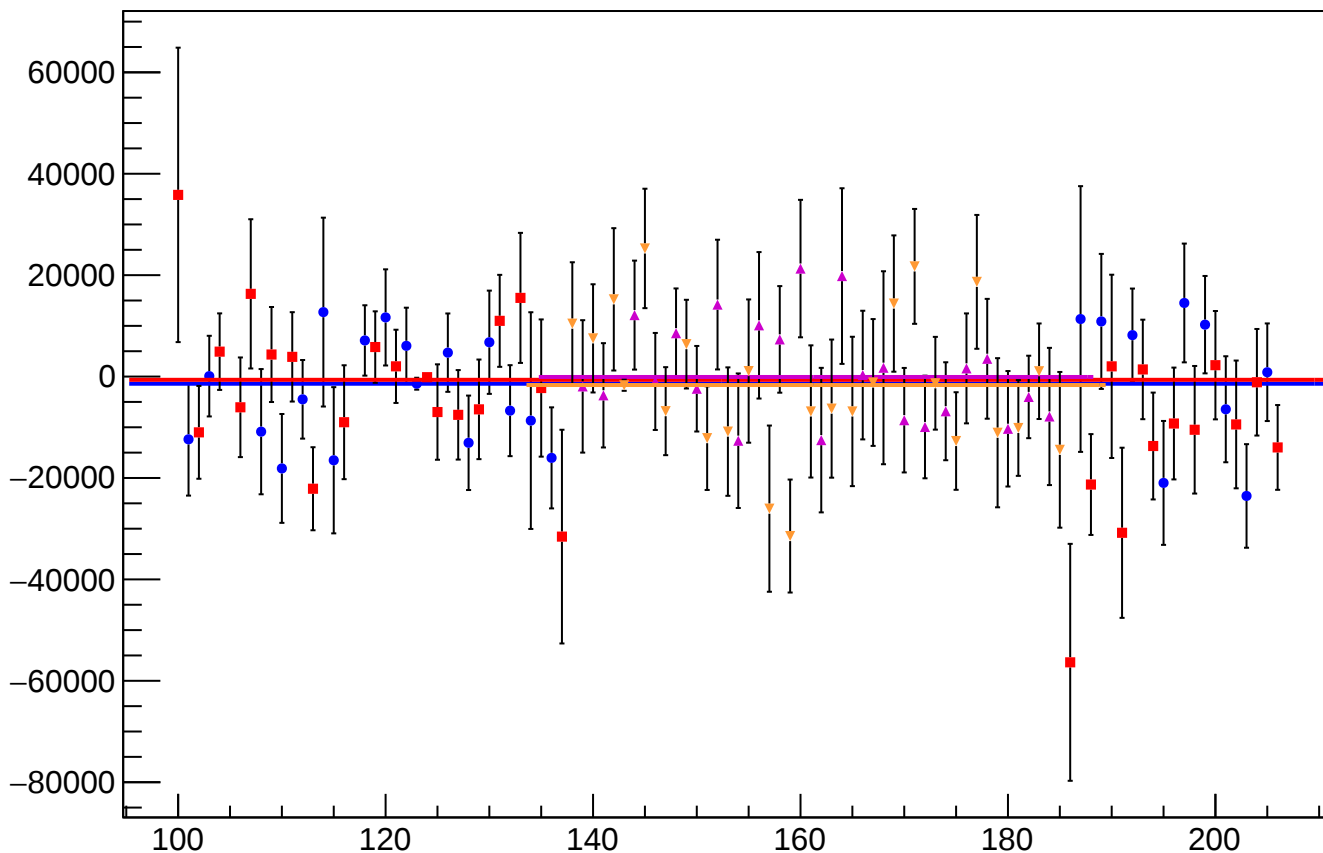
Right: 2143.720+/-0.290 χ^2/NDF : 915106.8/56

In: 2310.137+/-0.300 χ^2/NDF : 1355243.6/48

Out: 2308.937+/-0.288 χ^2/NDF : 2265900.4/55

All: 2309.512+/-0.208 χ^2/NDF : 3621152.4/100

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1411.891+/-1014.119 χ^2/NDF : 28.8/25

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

Right Out: -638.159+/-680.540 χ^2/NDF : 40.5/30

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

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

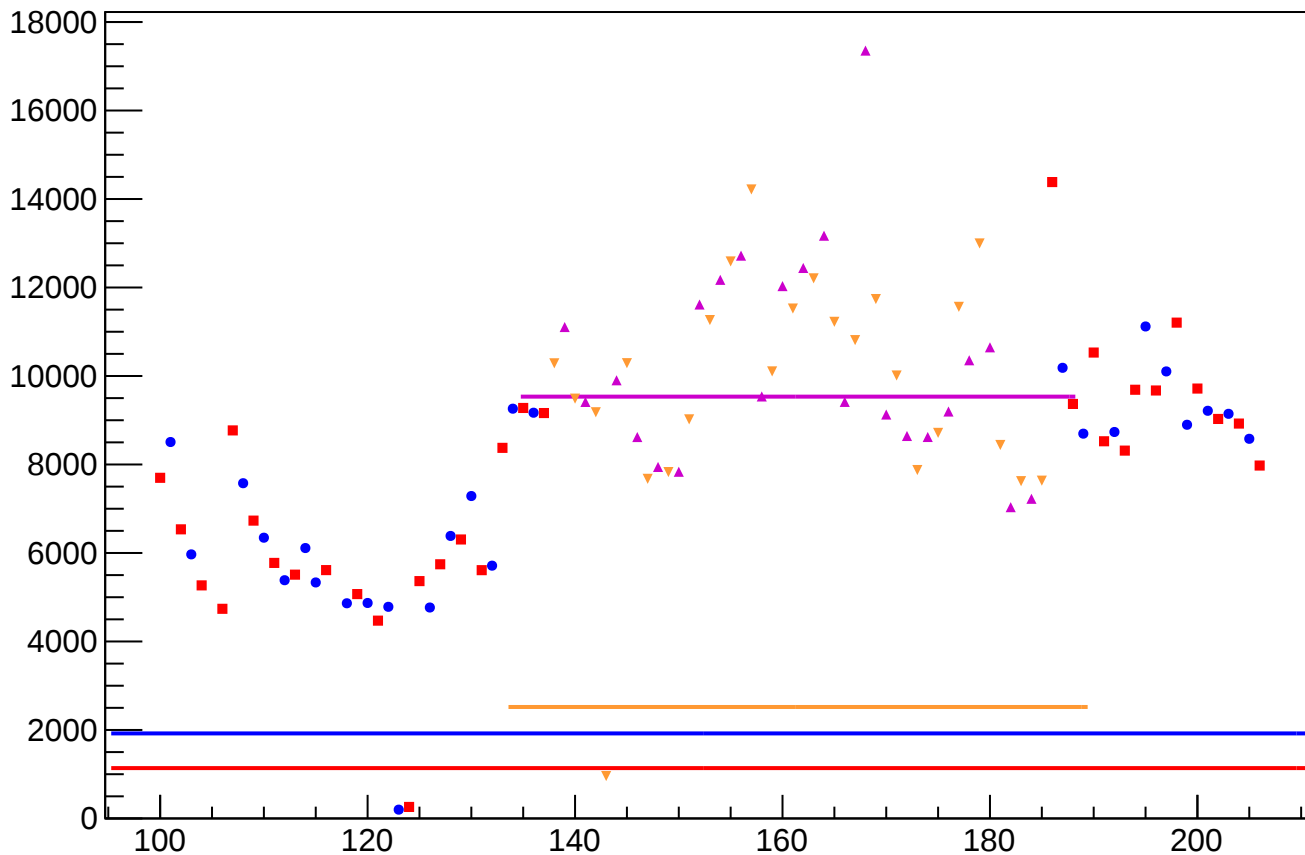
Right: -878.404+/-565.094 χ^2/NDF : 69.6/56

In: -1200.043+/-929.959 χ^2/NDF : 42.8/48

Out: -966.426+/-561.371 χ^2/NDF : 73.6/55

All: -1028.820+/-480.596 χ^2/NDF : 116.5/104

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1922.007+/-0.717

χ^2/NDF : 18578638.6/25

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

Right: 1381.507+/-0.400 χ^2/NDF : 43656418.4/56

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

In: 3132.934+/-0.658 χ^2/NDF : 37819640.6/48

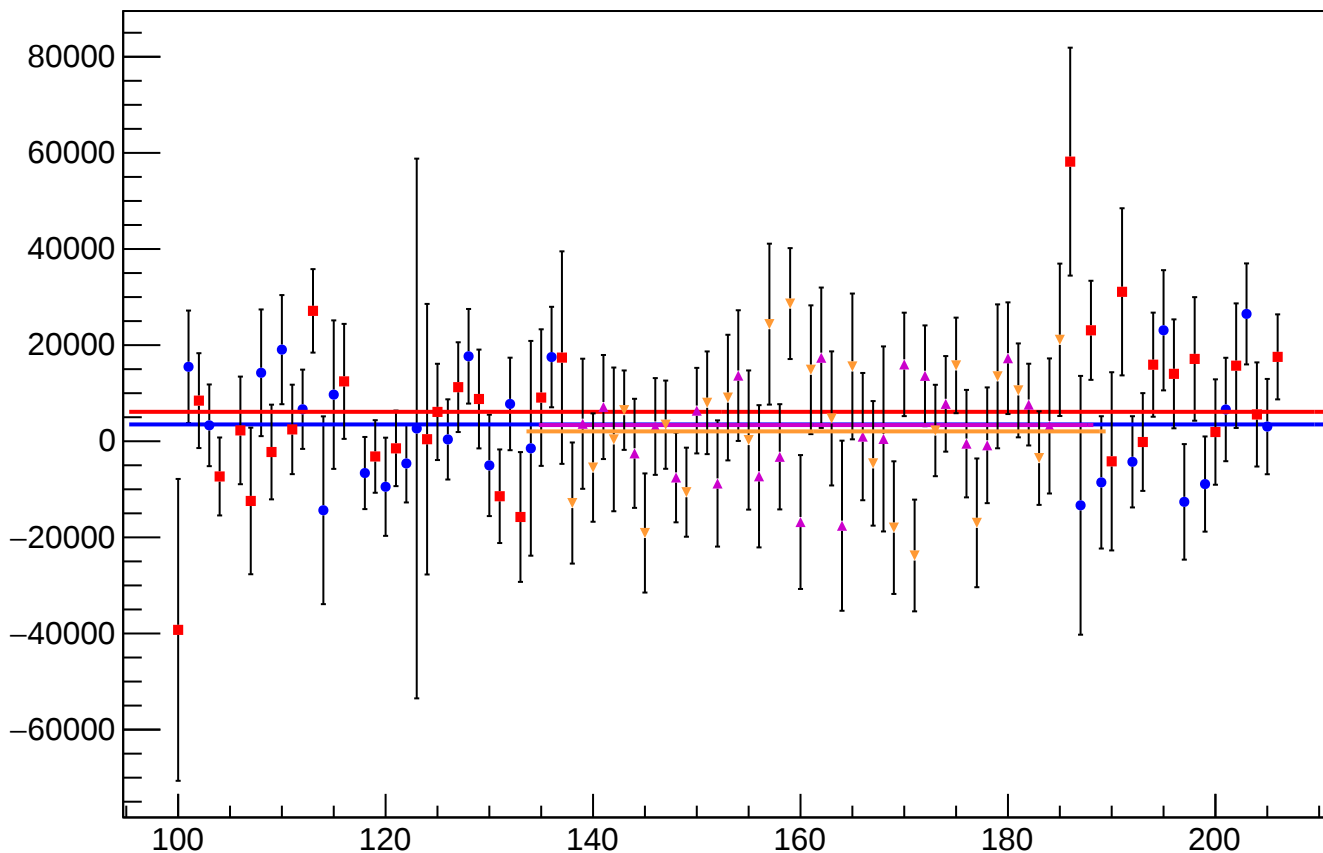
Out: 1579.494+/-0.397 χ^2/NDF : 50528732.8/55

Right Out: 1138.105+/-0.481 χ^2/NDF : 24253815.1/30

Left In: 9533.563+/-1.649 χ^2/NDF : 1316640.0/22

All: 1994.379+/-0.340 χ^2/NDF : 92438639.9/131

asym_atl2_mean vs Slug, Sign Corrected



Right In: 3499.901+/-2114.039 χ^2/NDF : 26.6/25

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

Right Out: 6123.633+/-1981.145 χ^2/NDF : 37.2/30

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

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

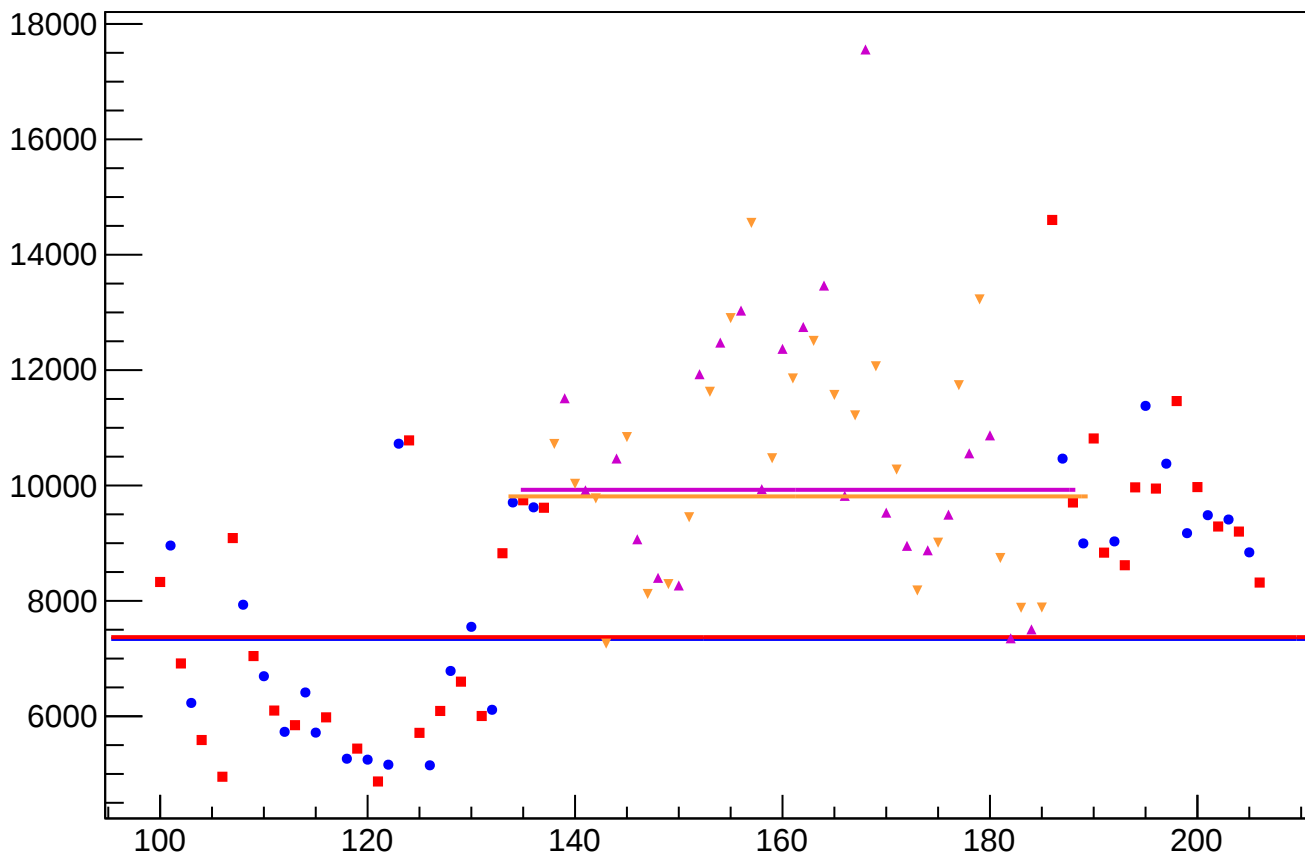
Right: 4896.821+/-1445.581 χ^2/NDF : 64.7/56

In: 3444.597+/-1593.027 χ^2/NDF :39.7/48

Out: 4419.772+/-1510.255 χ^2/NDF :69.7/55

All: 3958.176+/-1096.005 χ^2/NDF : 109.6/104

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7340.375+/-1.495 χ^2/NDF : 1596563.8/25

Left Out: 9811.053+/-1.650 χ^2/NDF : 1213831.0/24

Right Out: 7371.324+/-1.401 χ^2/NDF : 2014545.7/30

Left In: 9925.337+/-1.713 χ^2/NDF : 1211554.7/22

Left: 9866.039+/-1.189 χ^2/NDF : 2427693.8/47

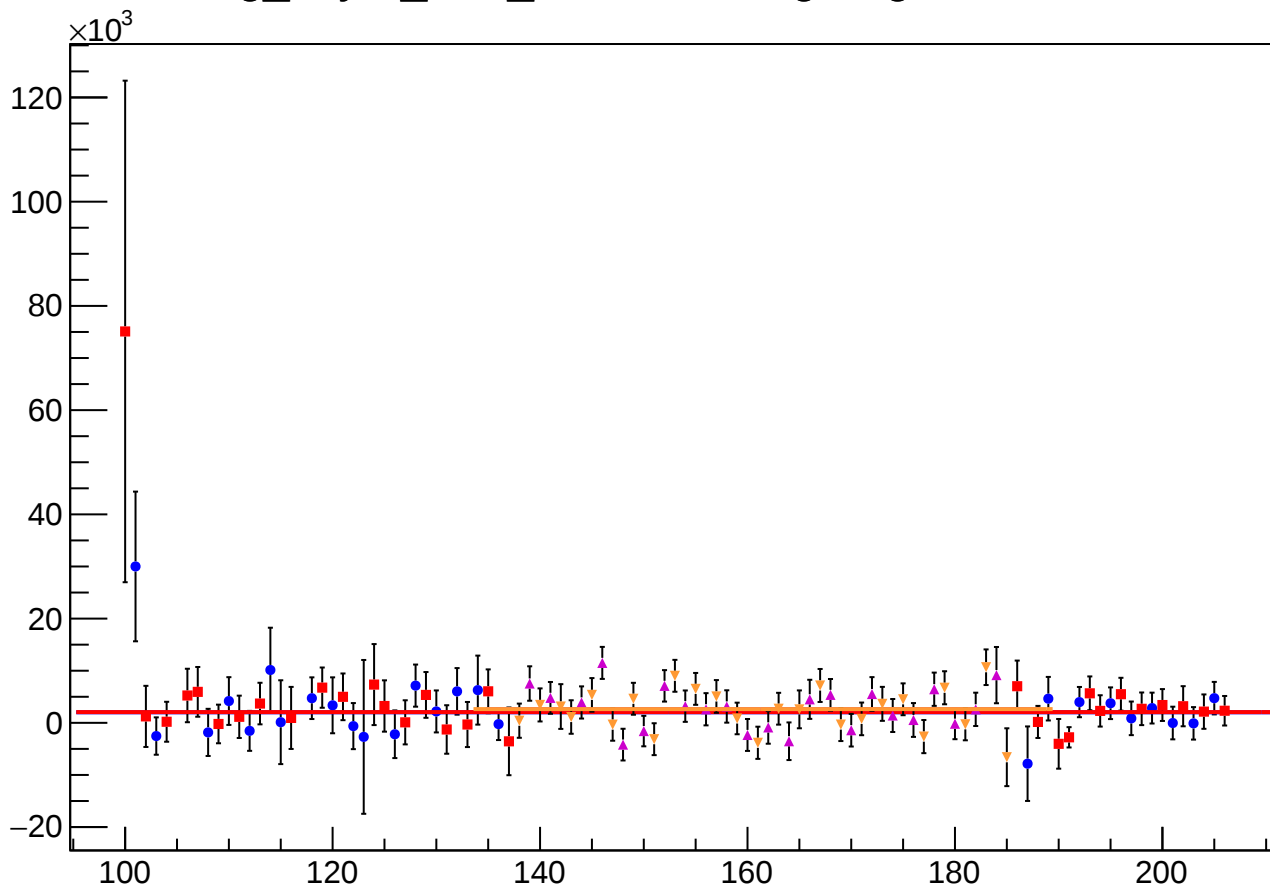
Right: 7356.854+/-1.022 χ^2/NDF : 3611337.8/56

In: 8457.508+/-1.126 χ^2/NDF : 4100426.4/48

Out: 8393.199+/-1.068 χ^2/NDF : 4498920.3/55

All: 8423.638+/-0.775 χ^2/NDF : 8601063.3/10

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2017.158+/-789.848 χ^2/NDF : 18.4/25

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

Right Out: 2058.794+/-686.730 χ^2/NDF : 21.9/30

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

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

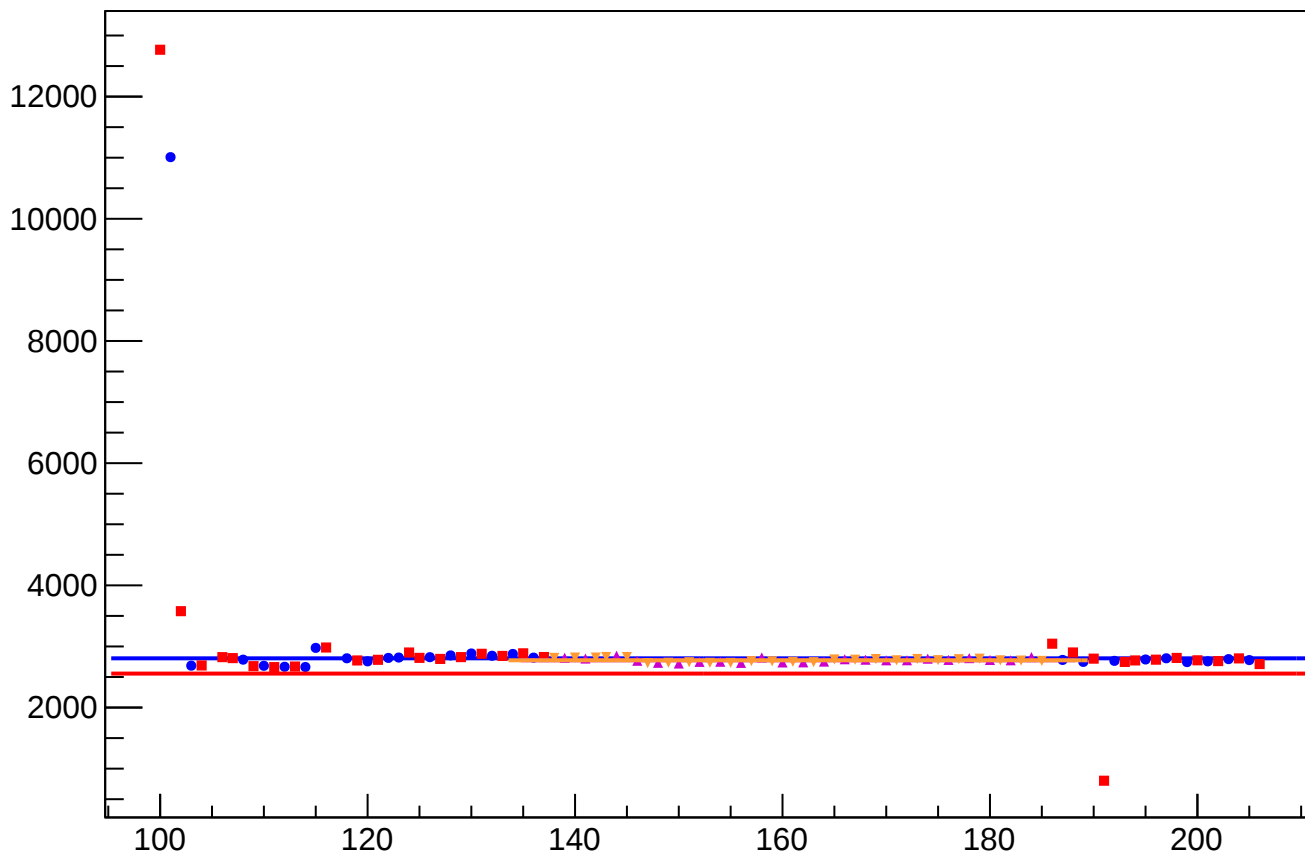
Right: 2040.869+/-518.241 χ^2/NDF : 40.3/56

In: 2381.018+/-508.516 χ^2/NDF : 54.0/48

Out: 2364.878+/-470.578 χ^2/NDF : 57.3/55

All: 2372.324+/-345.383 χ^2/NDF : 111.3/104

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2805.691+/-0.559 χ^2/NDF : 664468.8/25

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

Right Out: 2555.902+/-0.486 χ^2/NDF : 1994008.4/30

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

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

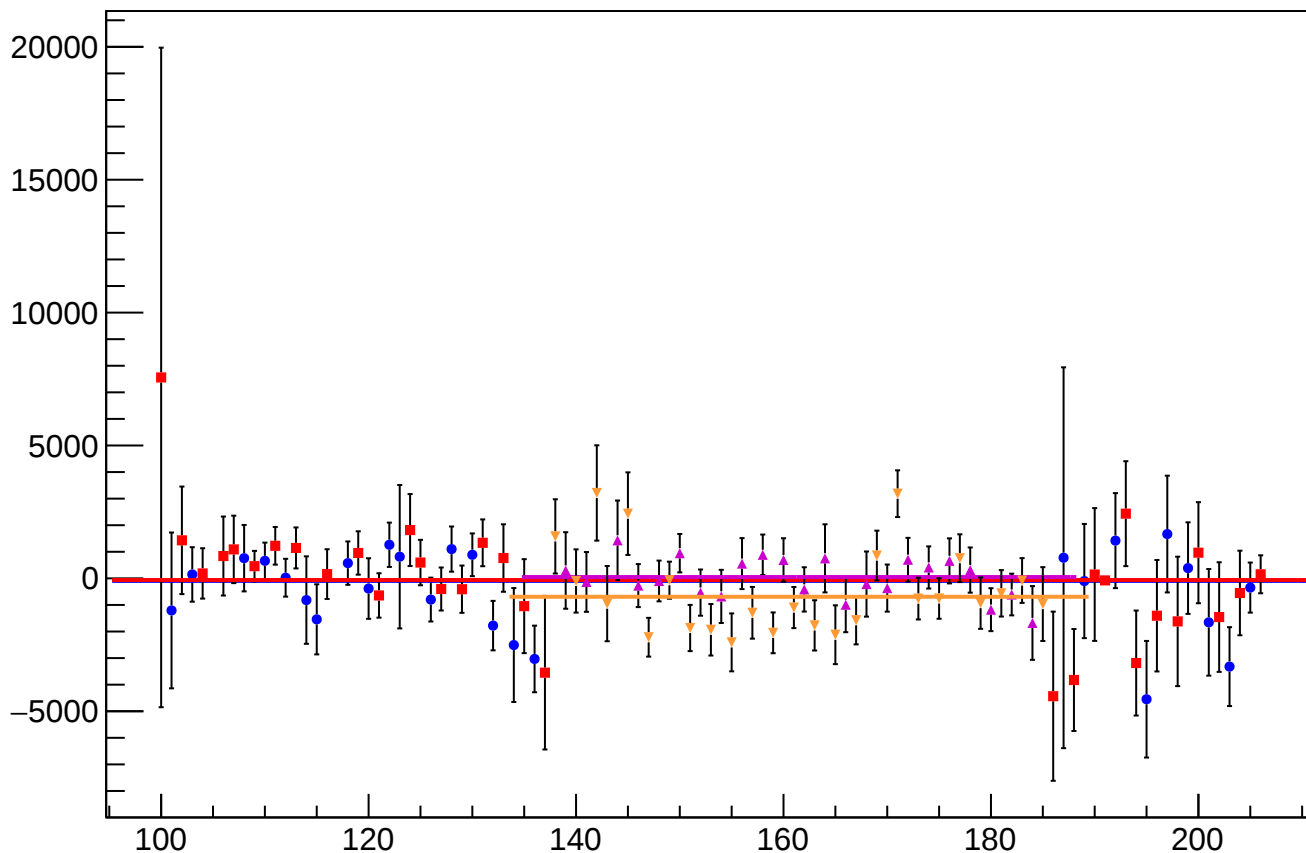
Right: 2663.437+/-0.366 χ^2/NDF : 2772392.2/56

In: 2787.157+/-0.360 χ^2/NDF : 671335.0/48

Out: 2671.438+/-0.333 χ^2/NDF : 2105347.0/55

All: 2724.820+/-0.244 χ^2/NDF : 2832473.8/10

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -94.492 ± 222.815 $\chi^2/\text{NDF}: 32.0/25$

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

Right Out: -62.628 ± 37.823 $\chi^2/\text{NDF}: 30.2/30$

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

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

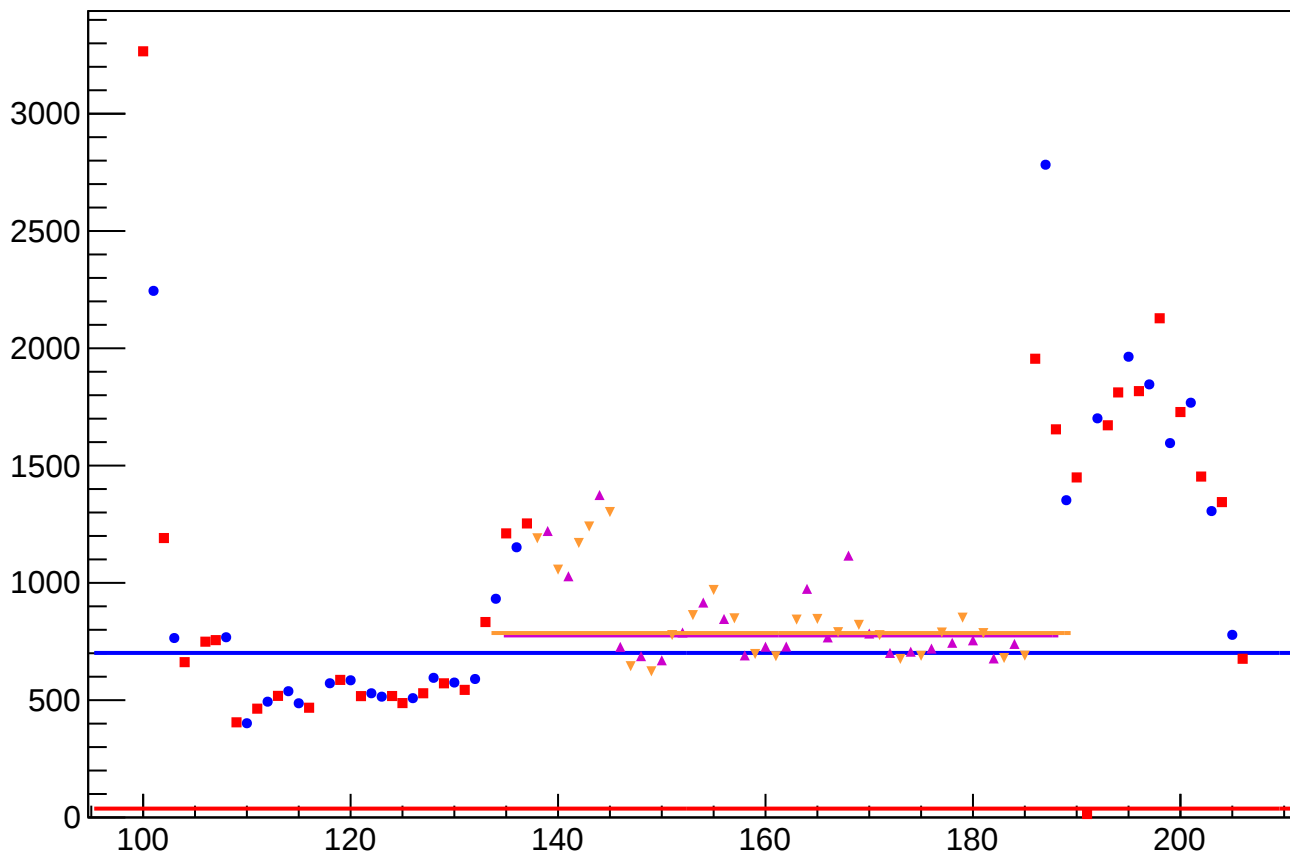
Right: -63.520 ± 37.289 $\chi^2/\text{NDF}: 62.2/56$

In: -10.971 ± 144.216 $\chi^2/\text{NDF}: 45.9/48$

Out: -87.319 ± 37.074 $\chi^2/\text{NDF}: 97.0/55$

All: -82.586 ± 35.907 $\chi^2/\text{NDF}: 143.2/104$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 701.371+/-0.158 χ^2/NDF : 5492605.2/25

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

Right Out: 37.734+/-0.027 χ^2/NDF : 26872225.3/30

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

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

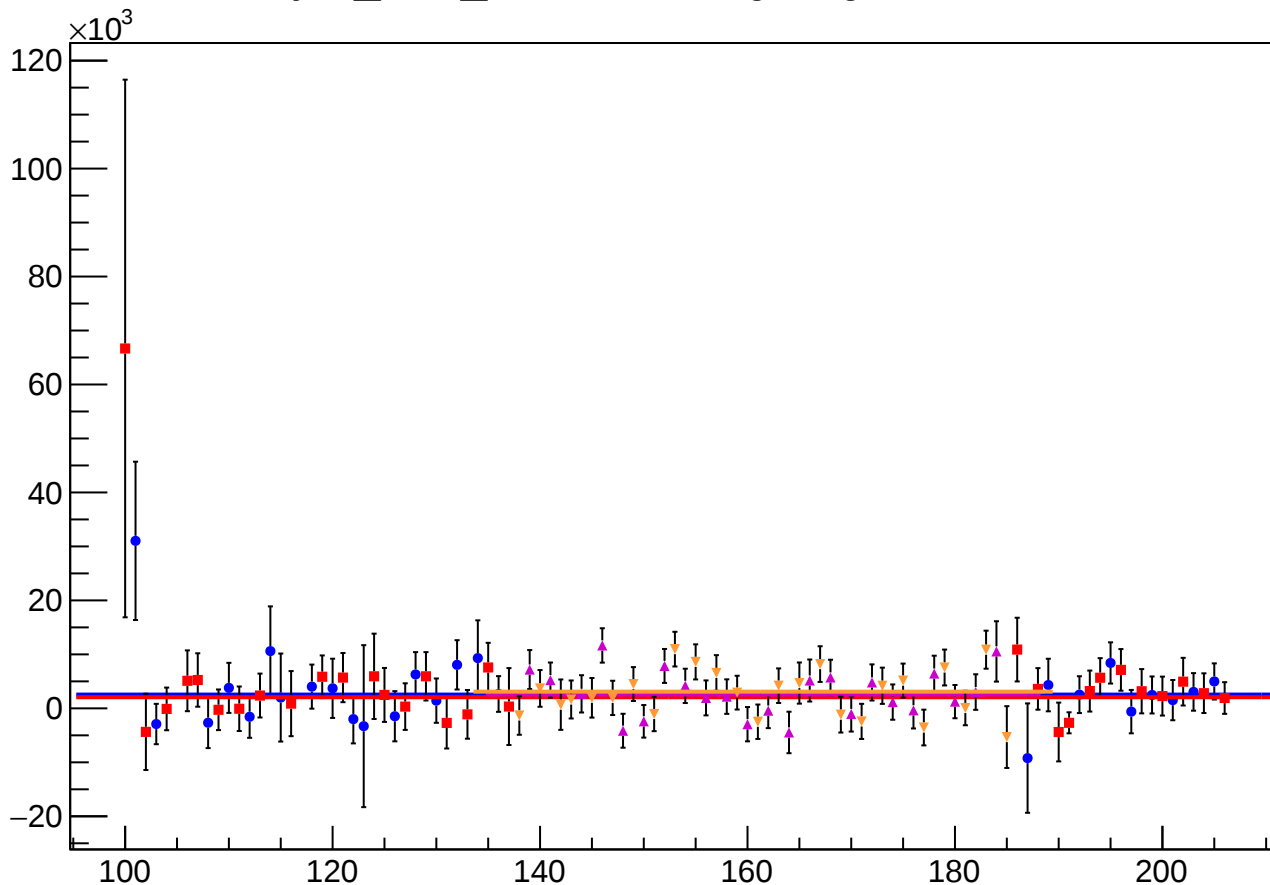
Right: 56.321+/-0.026 χ^2/NDF : 49609941.4/56

In: 744.695+/-0.102 χ^2/NDF :6679500.4/48

Out: 67.059+/-0.026 χ^2/NDF :58806411.6/55

All: 109.067+/-0.025 χ^2/NDF : 106905324.0/100

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2550.645+/-866.751 χ^2/NDF : 19.7/25

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

Right Out: 2057.571+/-747.306 χ^2/NDF : 23.0/30

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

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

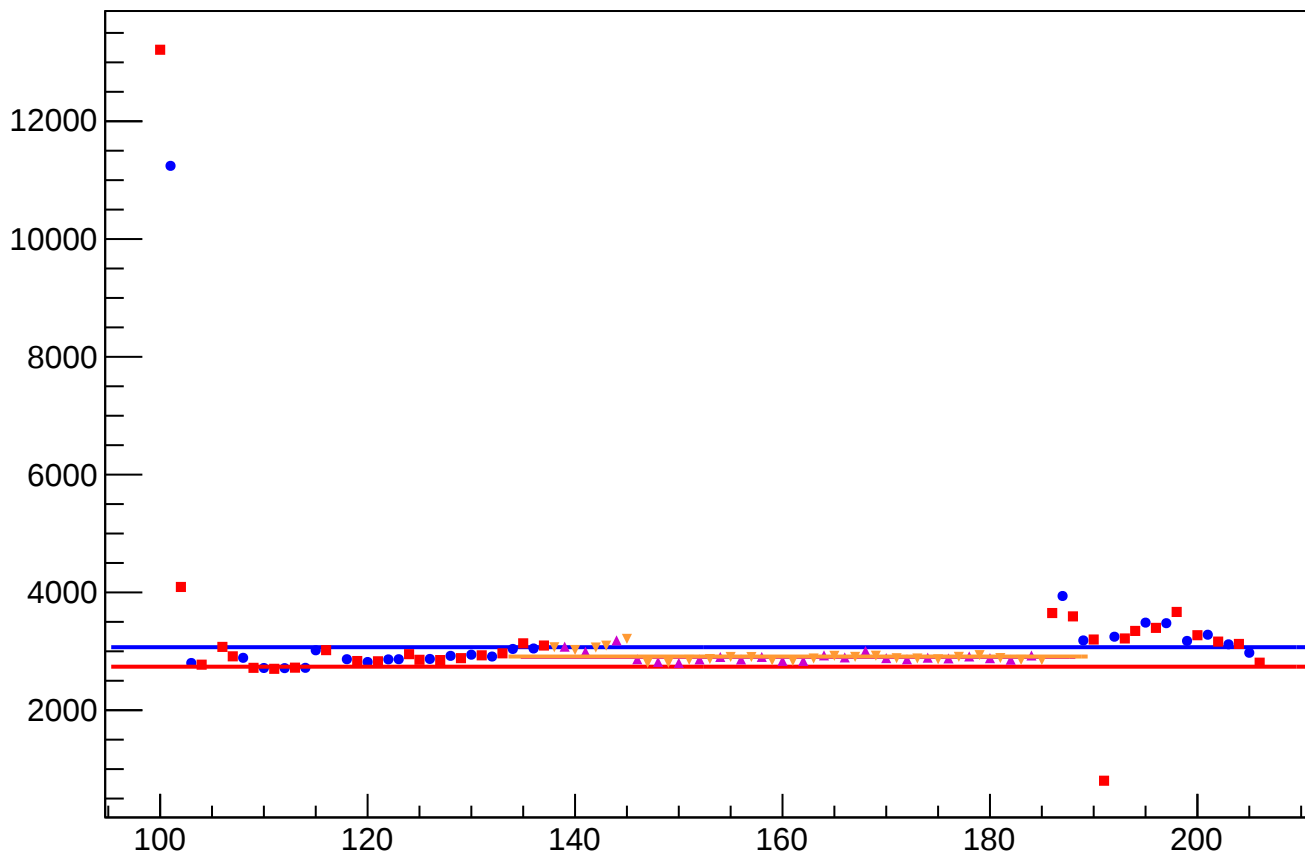
Right: 2267.817+/-565.982 χ^2/NDF : 42.9/56

In: 2564.351+/-542.592 χ^2/NDF : 55.4/48

Out: 2626.129+/-502.344 χ^2/NDF : 62.7/55

All: 2597.616+/-368.619 χ^2/NDF : 118.1/104

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3069.979+/-0.613 χ^2/NDF : 766745.8/25

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

Right Out: 2738.874+/-0.528 χ^2/NDF : 2682012.7/30

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

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

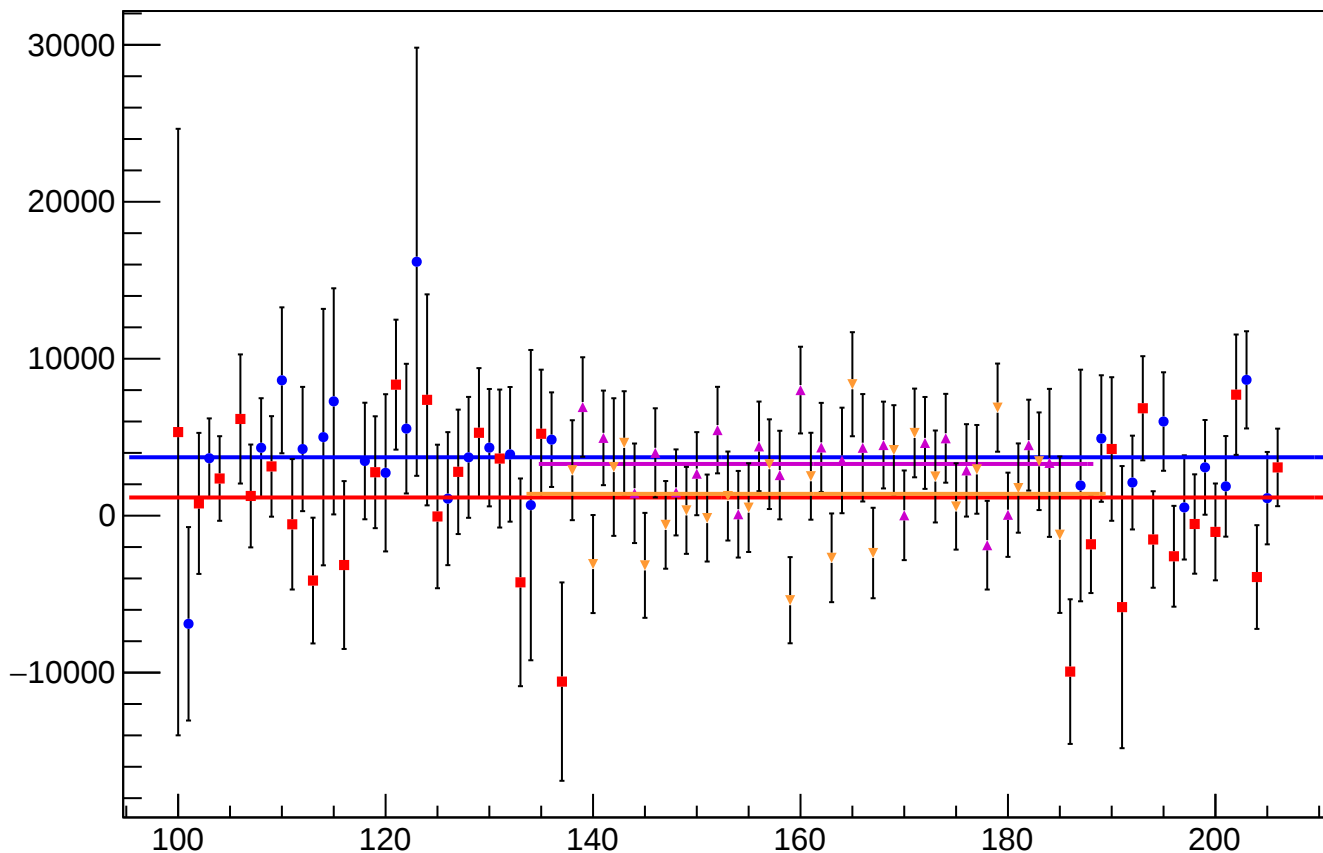
Right: 2880.057+/-0.400 χ^2/NDF : 3616169.7/56

In: 2968.686+/-0.384 χ^2/NDF :840501.7/48

Out: 2833.346+/-0.355 χ^2/NDF :2776968.9/55

All: 2895.811+/-0.261 χ^2/NDF : 3684472.9/10

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3720.888 $\pm$ 748.957 χ^2 /NDF: 11.7/25

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

Right Out: 1159.311 $\pm$ 687.409 χ^2 /NDF: 34.9/30

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

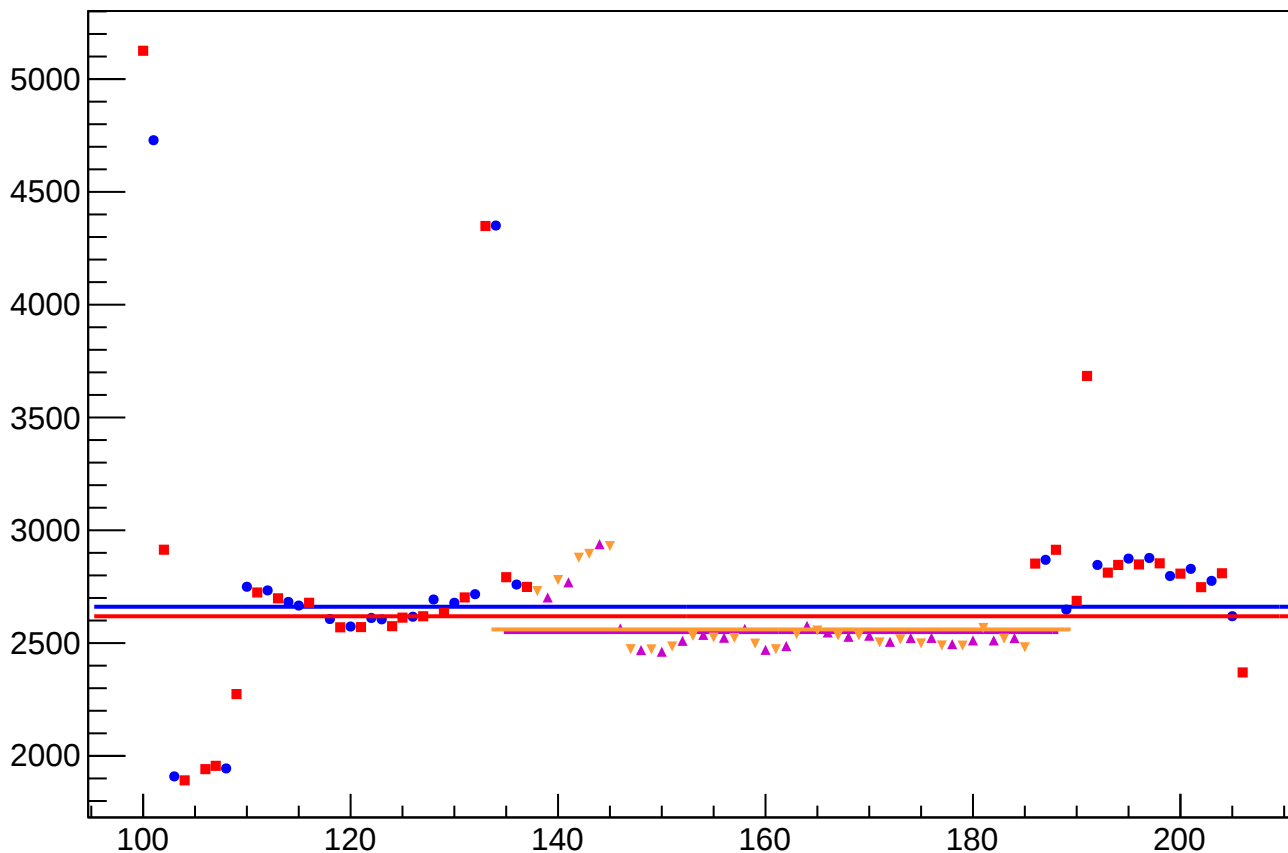
Right: 2330.538 $\pm$ 506.435 χ^2 /NDF: 53.0/56

In: 3465.064 $\pm$ 472.970 χ^2 /NDF:26.8/48

Out: 1291.062 $\pm$ 450.534 χ^2 /NDF:64.1/55

All: 2325.277 $\pm$ 326.219 χ^2 /NDF: 102.0/104

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2661.079+/-0.530 χ^2/NDF : 607610.2/25

Left Out: 2560.531+/-0.422 χ^2/NDF : 86771.4/24

Right Out: 2618.874+/-0.486 χ^2/NDF : 619514.2/30

Left In: 2548.870+/-0.431 χ^2/NDF : 55266.2/22

Left: 2554.831+/-0.302 χ^2/NDF : 142411.2/47

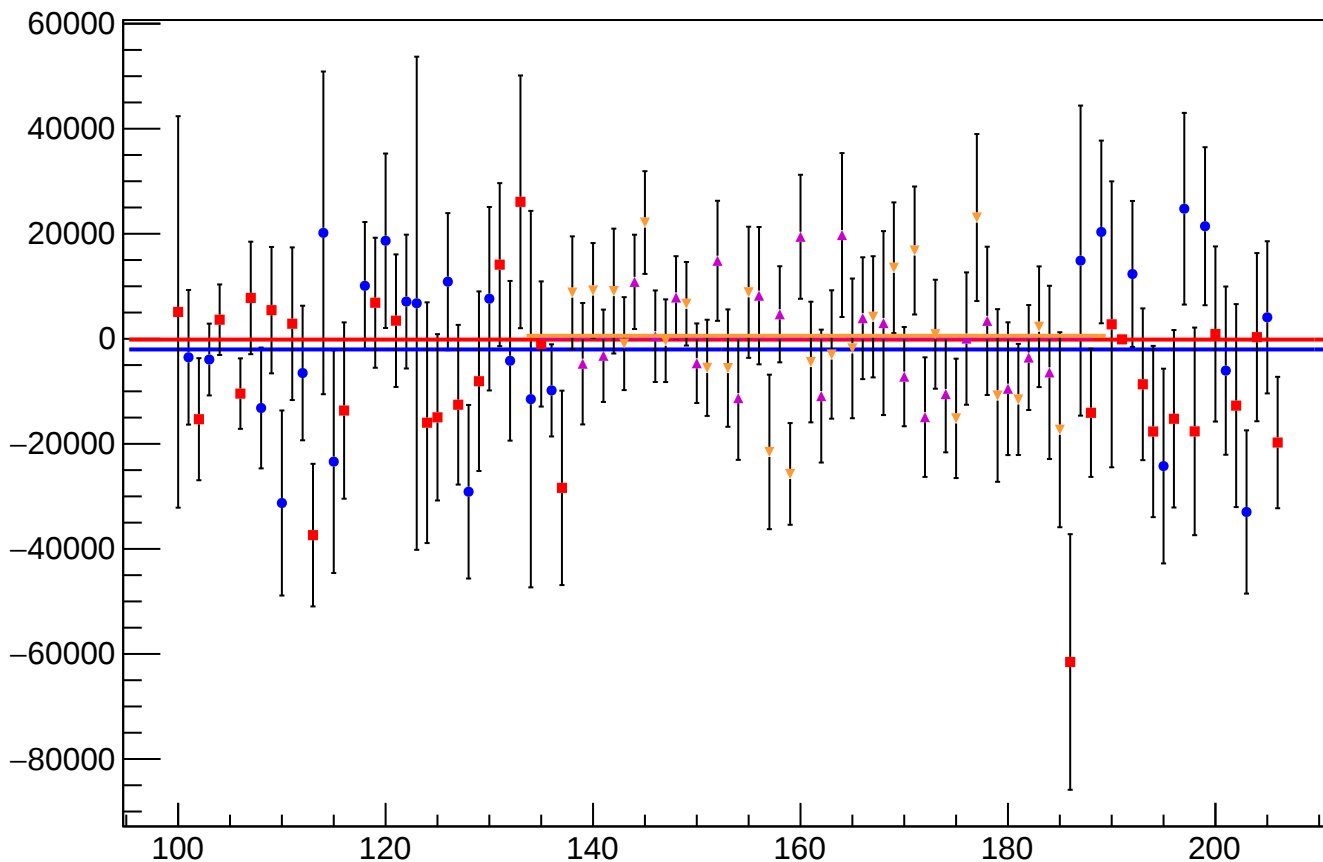
Right: 2638.171+/-0.358 χ^2/NDF : 1230571.7/56

In: 2593.619+/-0.334 χ^2/NDF : 689865.9/48

Out: 2585.593+/-0.319 χ^2/NDF : 714503.8/55

All: 2589.411+/-0.231 χ^2/NDF : 1404671.7/10

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -2026.132 $\pm$ 2791.104 χ^2 /NDF: 26.7/25

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

Right Out: -145.766 $\pm$ 194.943 χ^2 /NDF: 34.0/30

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

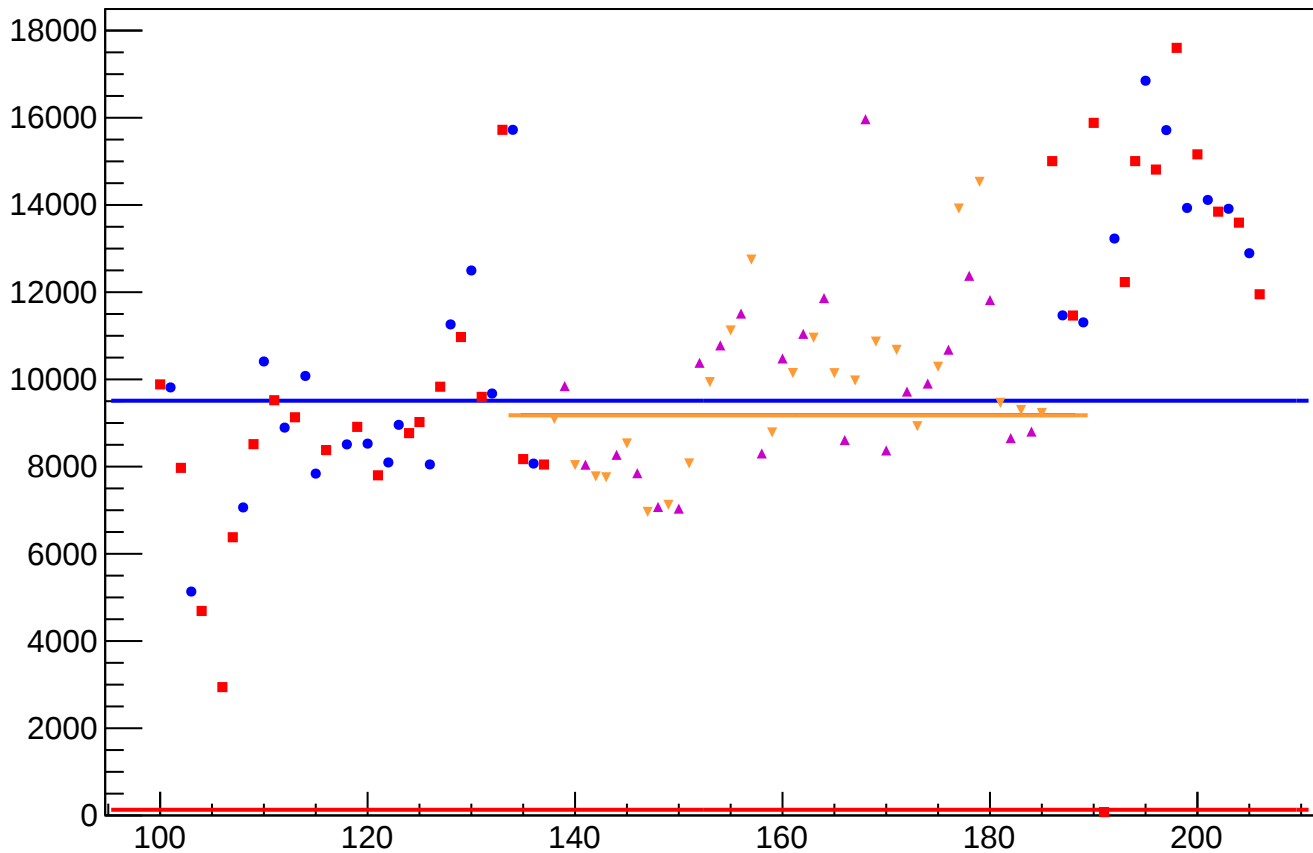
Right: -154.895 $\pm$ 194.469 χ^2 /NDF: 61.2/56

In: -627.807 $\pm$ 1748.315 χ^2 /NDF:42.8/48

Out: -140.091 $\pm$ 194.171 χ^2 /NDF:62.4/55

All: -146.034 $\pm$ 192.984 χ^2 /NDF: 105.2/104

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 9511.194+/-1.974

χ^2/NDF : 2526214.4/25

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right: 176.034+/-0.138

χ^2/NDF : 53587826.4/56

Right Out: 130.495+/-0.138

χ^2/NDF : 28579608.8/30

In: 9310.710+/-1.236

χ^2/NDF : 3779666.3/48

Out: 201.982+/-0.137

χ^2/NDF : 63793302.6/55

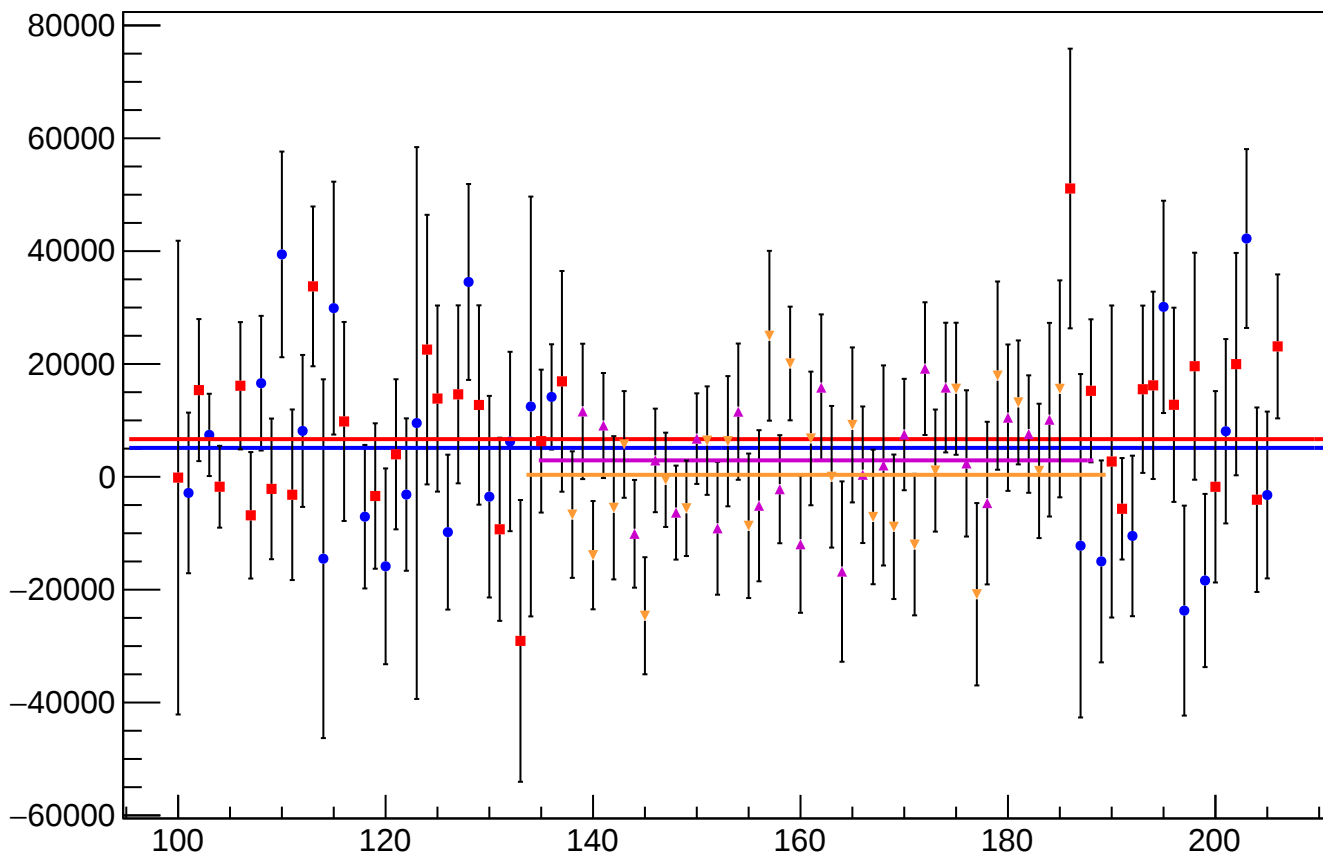
Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

All: 312.967+/-0.136

χ^2/NDF : 121199753.7/1

asym_atr2_mean vs Slug, Sign Corrected



Right In: 5128.007 $\pm$ 2923.280 χ^2/NDF : 29.7/25

Left Out: 355.717 $\pm$ 2281.682 χ^2/NDF : 26.2/24

Right Out: 6679.459 $\pm$ 2575.087 χ^2/NDF : 23.2/30

Left In: 2918.356 $\pm$ 2338.461 χ^2/NDF : 14.9/22

Left: 1605.548 $\pm$ 1633.097 χ^2/NDF : 41.8/47

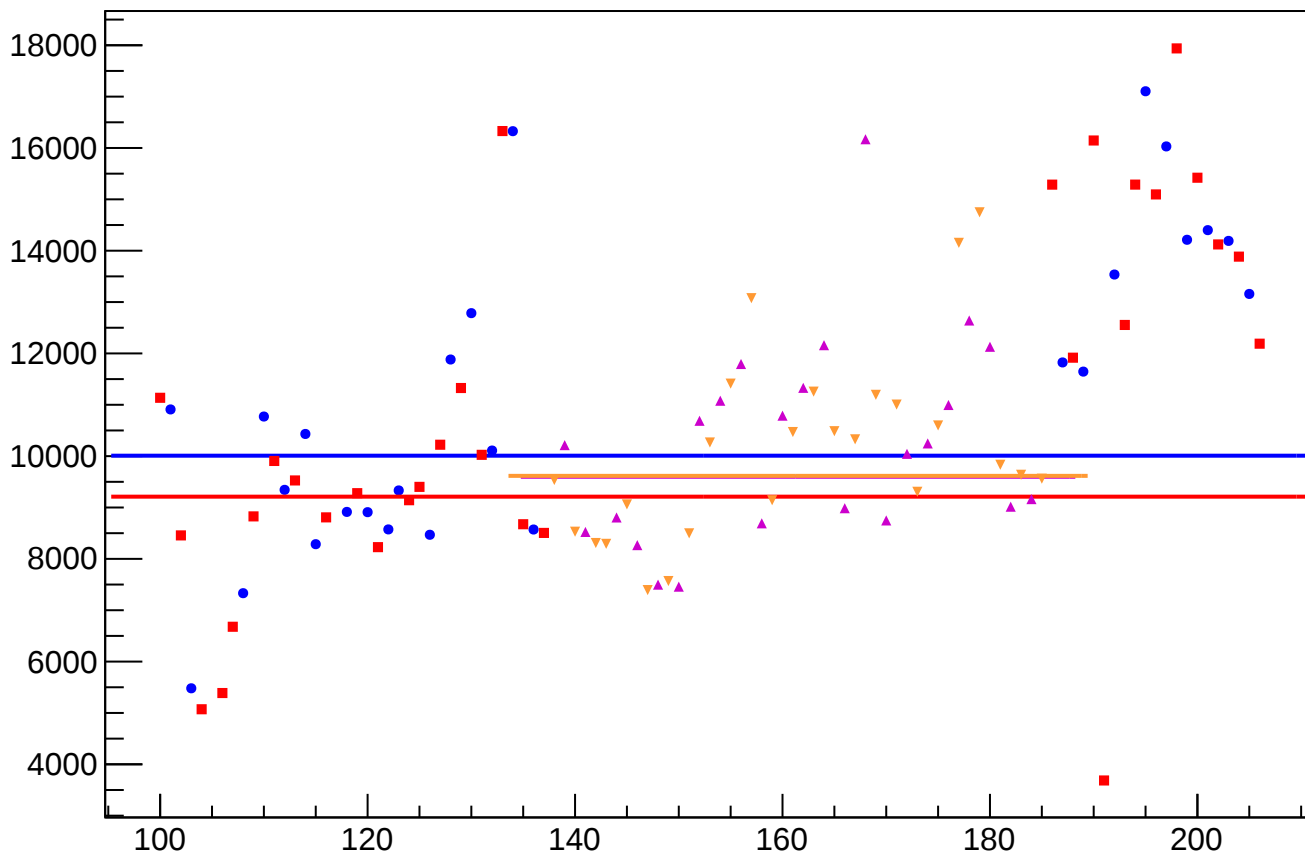
Right: 6001.589 $\pm$ 1932.300 χ^2/NDF : 53.0/56

In: 3780.586 $\pm$ 1826.081 χ^2/NDF : 45.0/48

Out: 3136.951 $\pm$ 1707.747 χ^2/NDF : 52.8/55

All: 3437.240 $\pm$ 1247.297 χ^2/NDF : 97.8/104

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10008.874+/-2.067

χ^2/NDF : 2313899.5/25

Left Out: 9616.245+/-1.613

χ^2/NDF : 1011665.6/24

Right Out: 9211.211+/-1.821

χ^2/NDF : 3962431.9/30

Left In: 9598.531+/-1.654

χ^2/NDF : 1082171.6/22

Left: 9607.606+/-1.155

χ^2/NDF : 2093896.0/47

Right: 9559.718+/-1.366

χ^2/NDF : 6360181.8/56

In: 9758.651+/-1.291

χ^2/NDF : 3420101.6/48

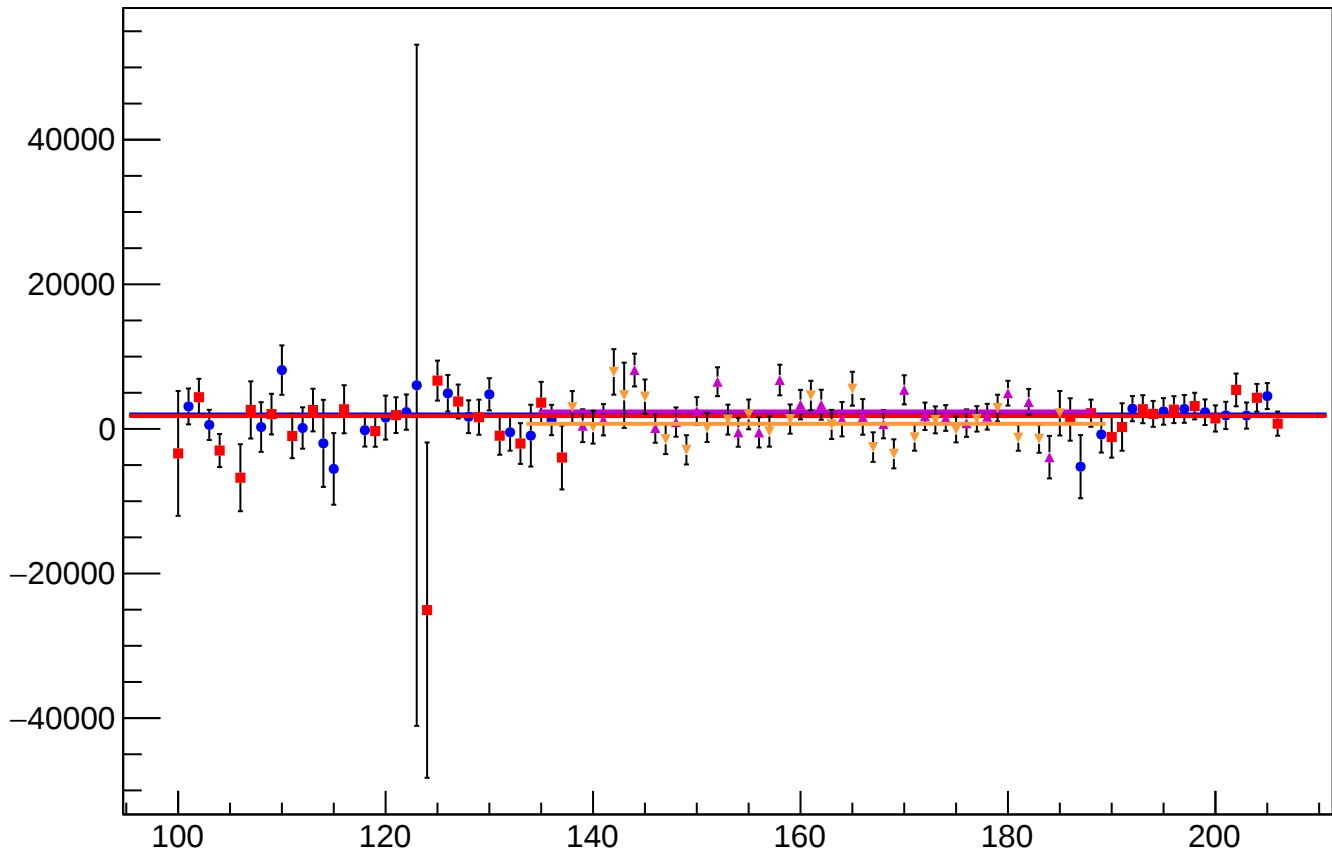
Out: 9438.102+/-1.208

χ^2/NDF : 5001816.8/55

All: 9587.652+/-0.882

χ^2/NDF : 8454794.3/10

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1996.976+/-469.418 χ^2/NDF : 19.2/25

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

Right Out: 1789.381+/-442.167 χ^2/NDF : 28.3/30

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

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

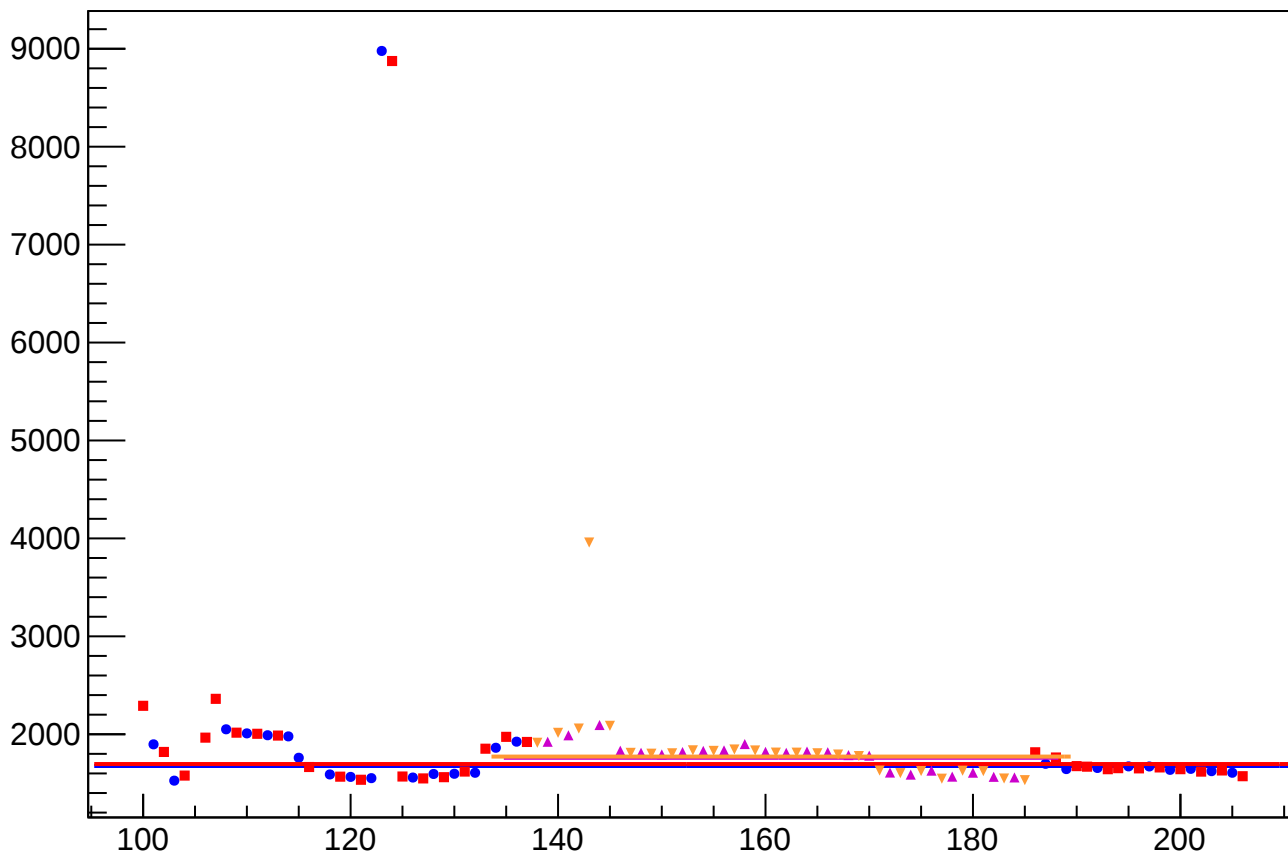
Right: 1886.978+/-321.862 χ^2/NDF : 47.7/56

In: 2227.303+/-314.432 χ^2/NDF : 53.6/48

Out: 1218.440+/-303.516 χ^2/NDF : 66.3/55

All: 1705.055+/-218.375 χ^2/NDF : 125.3/104

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1676.017+/-0.332 χ^2/NDF : 207134.5/25

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

Right Out: 1695.984+/-0.312 χ^2/NDF : 436450.2/30

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

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

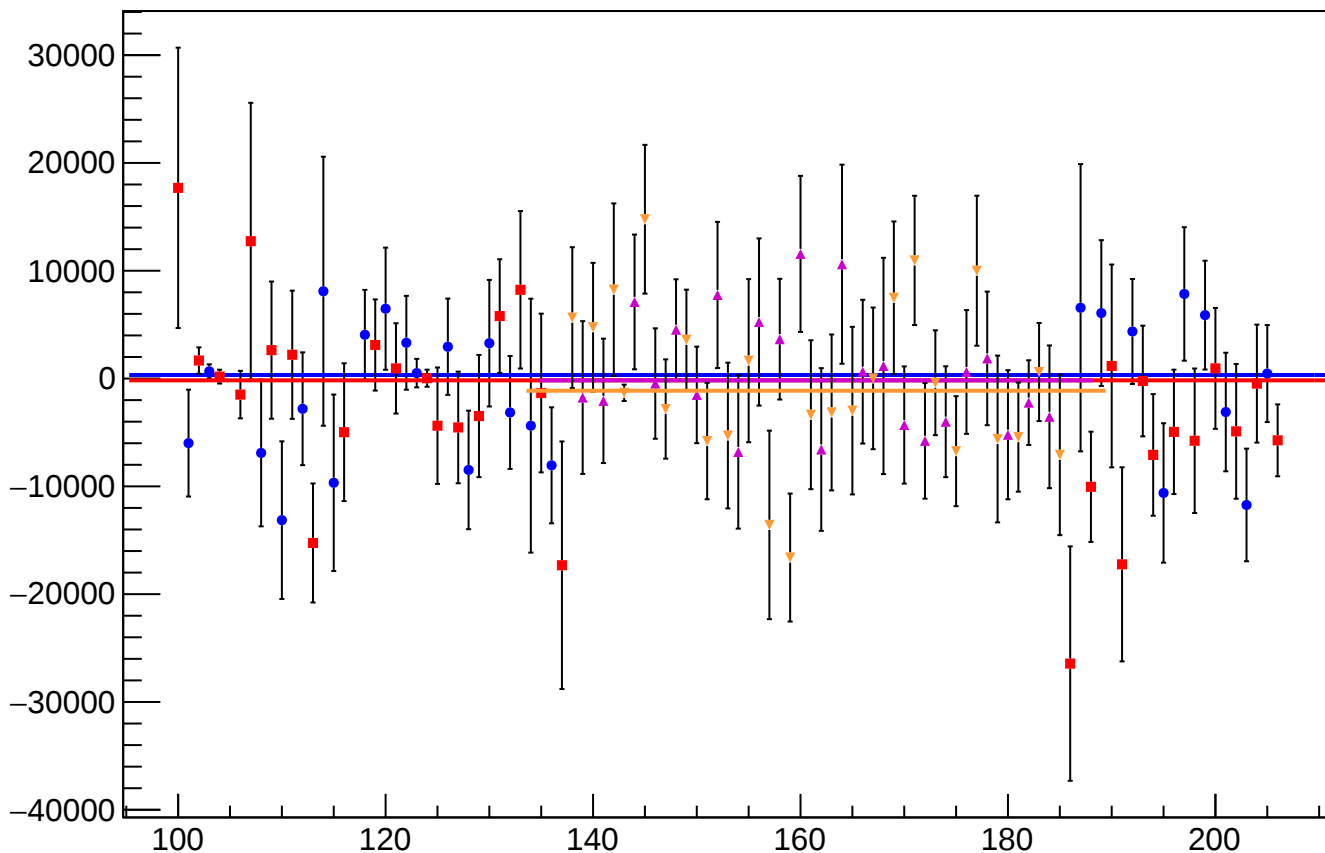
Right: 1686.616+/-0.227 χ^2/NDF : 645505.7/56

In: 1722.098+/-0.222 χ^2/NDF : 456984.2/48

Out: 1736.133+/-0.214 χ^2/NDF : 1170283.0/55

All: 1729.370+/-0.154 χ^2/NDF : 1629331.9/100

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 331.375 ± 519.945 $\chi^2/\text{NDF}: 30.2/25$

Left Out: -1129.807 ± 647.600 $\chi^2/\text{NDF}: 31.5/24$

Right Out: -165.293 ± 419.231 $\chi^2/\text{NDF}: 40.9/30$

Left In: -168.182 ± 1232.411 $\chi^2/\text{NDF}: 14.2/22$

Left: -921.734 ± 573.272 $\chi^2/\text{NDF}: 46.1/47$

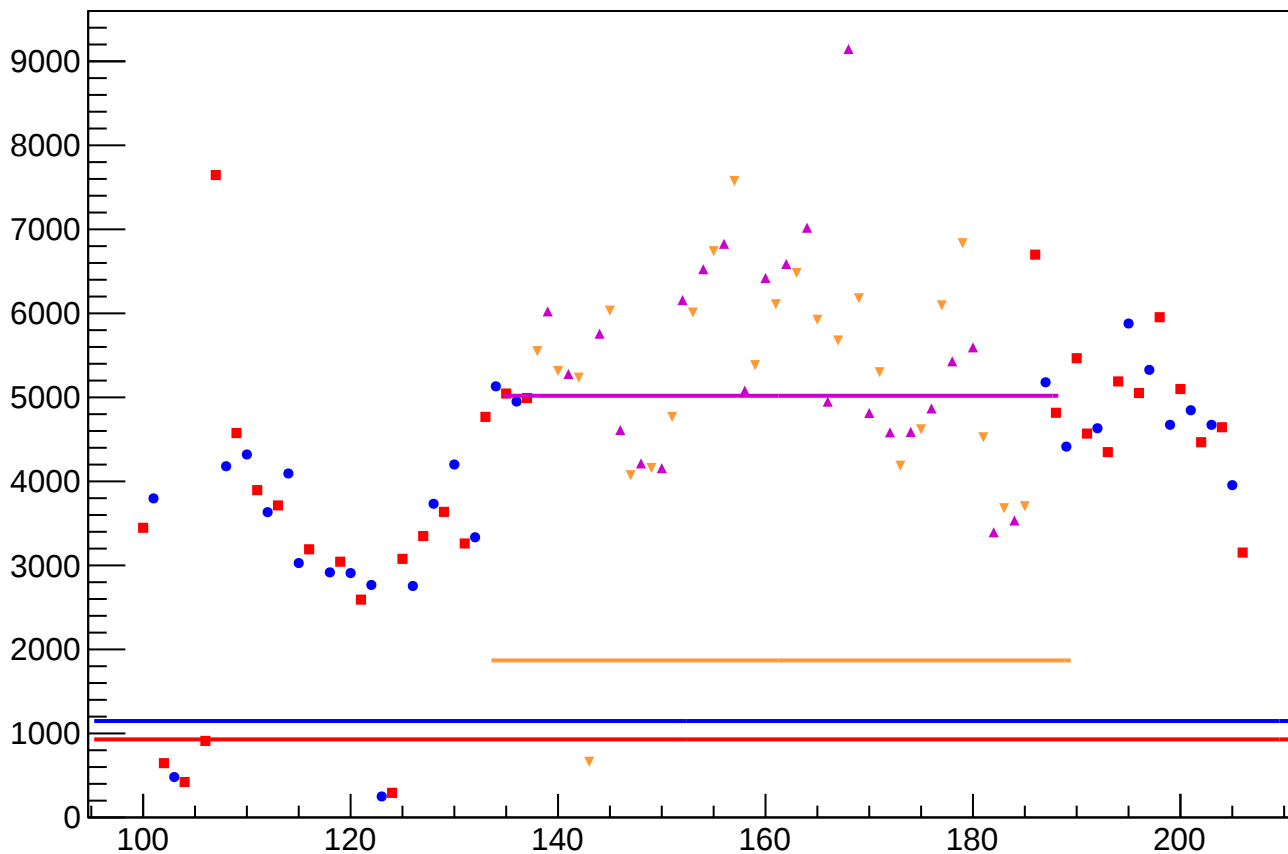
Right: 30.386 ± 326.360 $\chi^2/\text{NDF}: 71.7/56$

In: 255.892 ± 479.056 $\chi^2/\text{NDF}: 44.5/48$

Out: -450.130 ± 351.926 $\chi^2/\text{NDF}: 74.0/55$

All: -202.662 ± 283.620 $\chi^2/\text{NDF}: 119.9/104$

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1147.760+/-0.368

χ^2/NDF : 15928695.9/25

Left Out: 1868.983+/-0.458

χ^2/NDF : 19852416.6/24

Right Out: 929.374+/-0.296

χ^2/NDF : 19273837.1/30

Left In: 5019.114+/-0.871

χ^2/NDF : 1569031.9/22

Left: 2550.597+/-0.405

χ^2/NDF : 31661059.7/47

Right: 1015.414+/-0.231

χ^2/NDF : 35416352.7/56

In: 1732.716+/-0.339

χ^2/NDF : 34251079.9/48

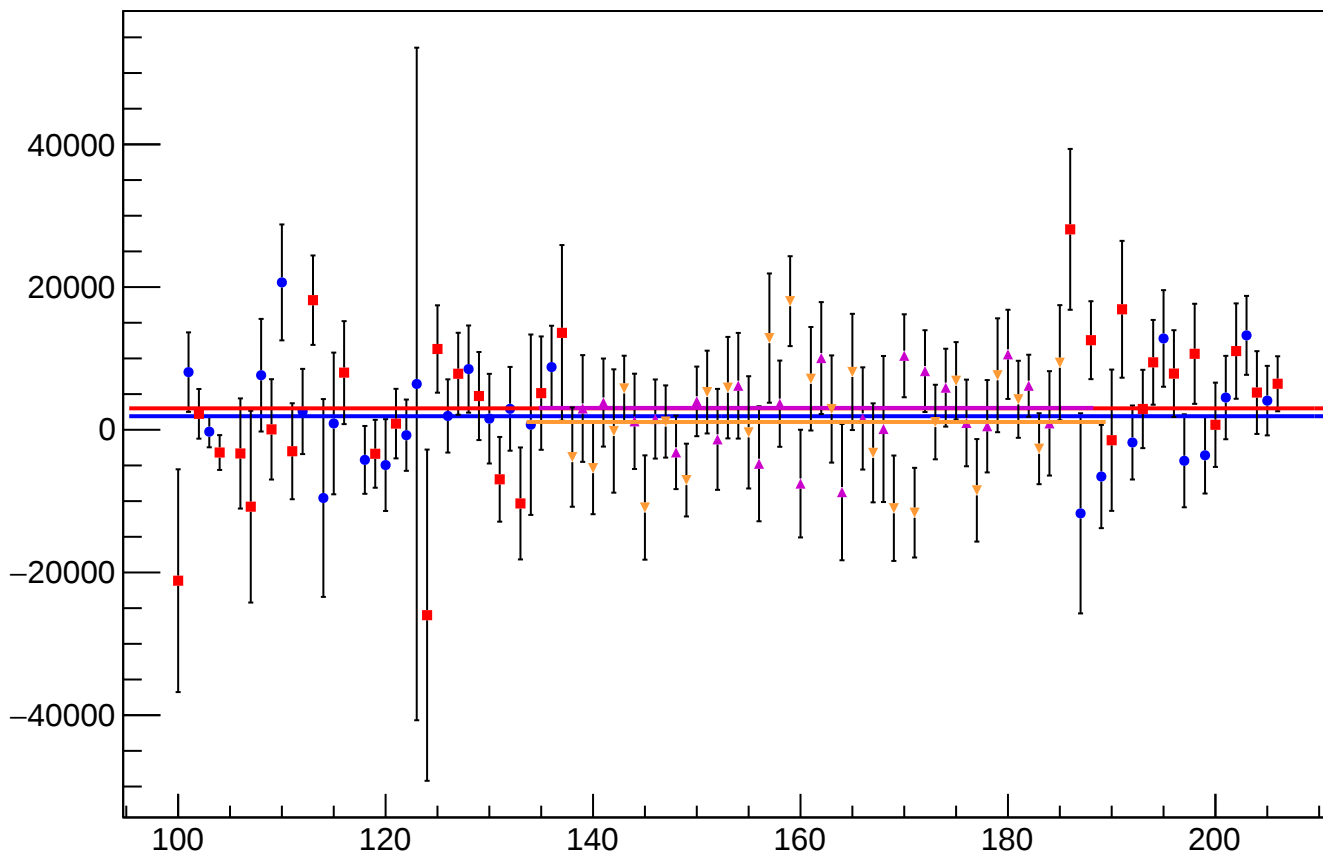
Out: 1206.856+/-0.249

χ^2/NDF : 42093168.2/55

All: 1391.176+/-0.201

χ^2/NDF : 77909448.7/1

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1900.865+/-1100.639 χ^2/NDF : 26.5/25

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

Right Out: 3004.996+/-1041.476 χ^2/NDF : 46.5/30

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

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

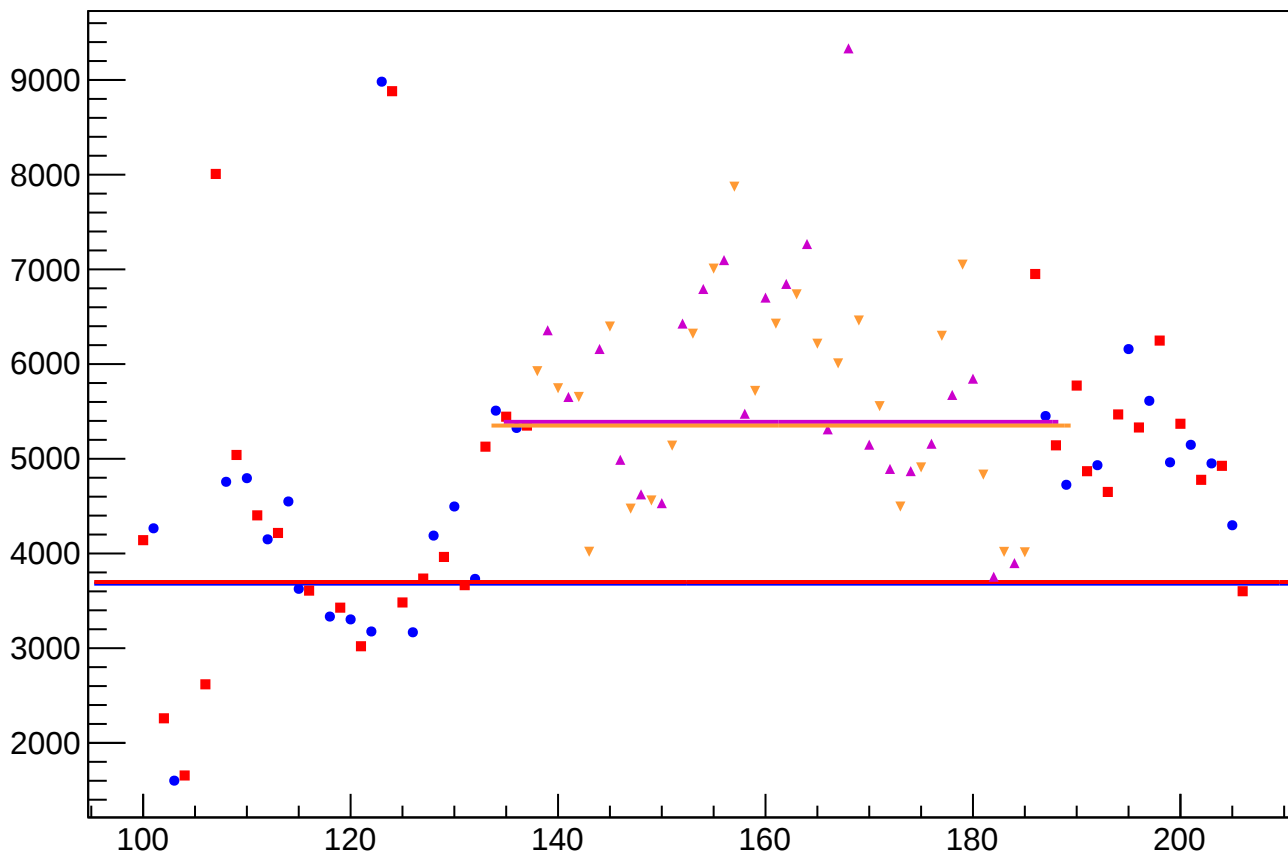
Right: 2483.402+/-756.486 χ^2/NDF : 73.4/56

In: 2378.985+/-844.853 χ^2/NDF : 39.5/48

Out: 2238.975+/-806.108 χ^2/NDF : 79.8/55

All: 2305.696+/-583.221 χ^2/NDF : 119.3/104

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3681.661 $\pm$ 0.778 χ^2 /NDF: 3268695.6/25

Left Out: 5350.804 $\pm$ 0.900 χ^2 /NDF: 1241497.9/24

Right Out: 3698.990 $\pm$ 0.729 χ^2 /NDF: 3863358.4/30

Left In: 5389.724 $\pm$ 0.932 χ^2 /NDF: 1309863.0/22

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

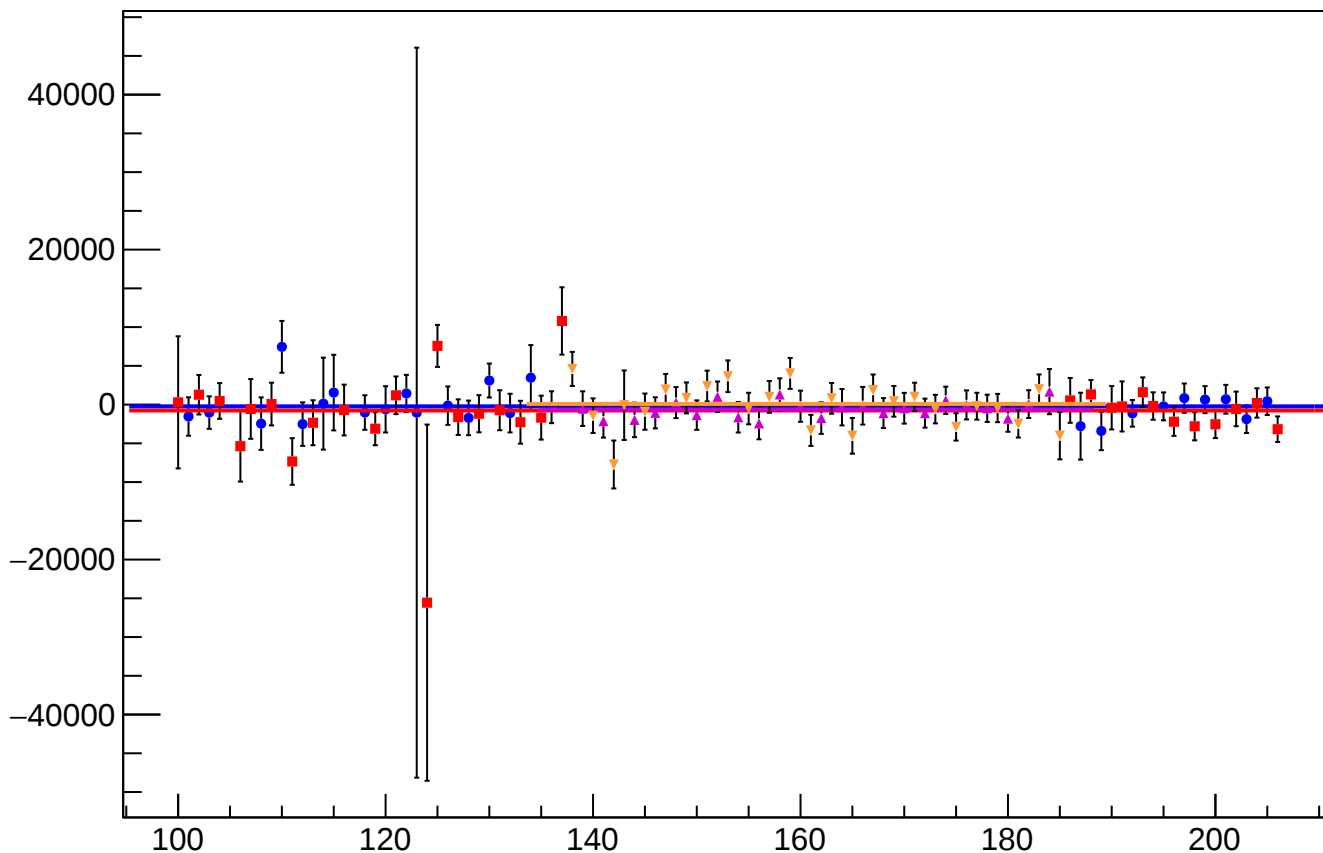
Right: 3690.886 $\pm$ 0.532 χ^2 /NDF: 7132318.0/56

In: 4383.308 $\pm$ 0.597 χ^2 /NDF: 6557195.7/48

Out: 4353.615 $\pm$ 0.567 χ^2 /NDF: 7137378.1/55

All: 4367.680 $\pm$ 0.411 χ^2 /NDF: 13695874.1/111

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -225.287 ± 462.772 χ^2/NDF : 15.3/25

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -756.951 ± 435.842 χ^2/NDF : 35.7/30

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

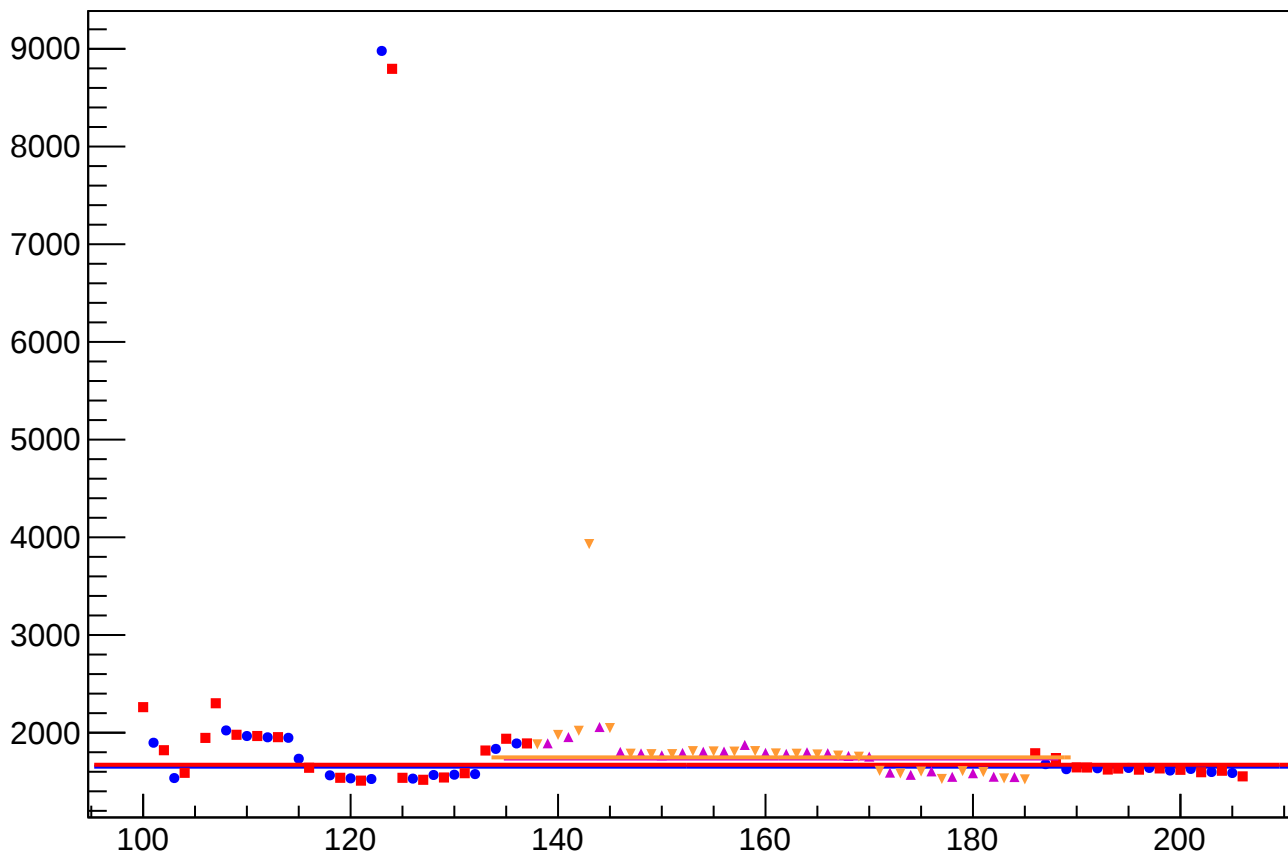
Right: -507.038 ± 317.280 χ^2/NDF : 51.6/56

In: -453.974 ± 310.050 χ^2/NDF : 21.9/48

Out: -311.197 ± 299.222 χ^2/NDF : 73.7/55

All: -380.049 ± 215.308 χ^2/NDF : 95.7/104

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1652.339+/-0.327 χ^2/NDF : 205337.1/25

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1671.992+/-0.308 χ^2/NDF : 432082.3/30

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

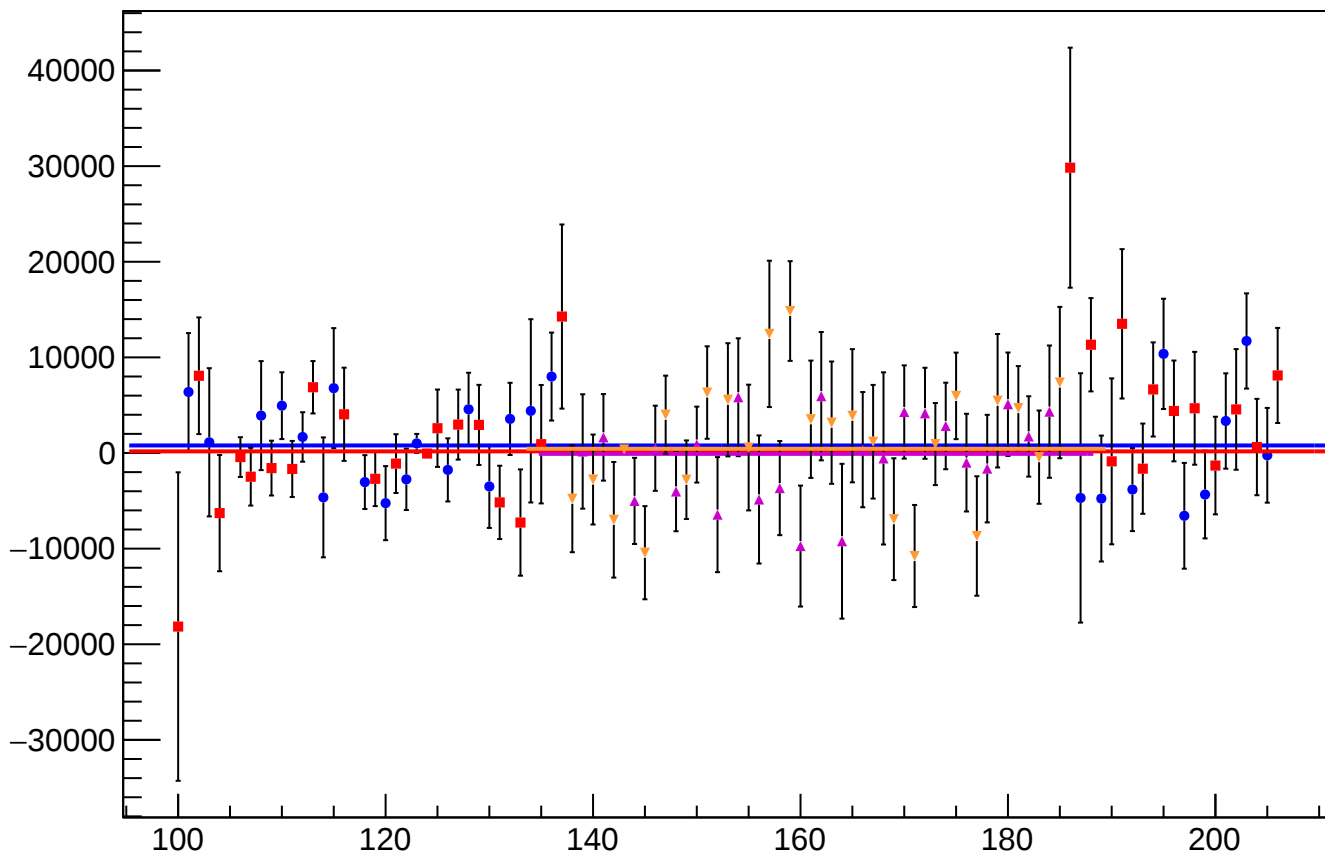
Right: 1662.772+/-0.224 χ^2/NDF : 639334.3/56

In: 1698.193+/-0.219 χ^2/NDF : 447733.3/48

Out: 1711.744+/-0.211 χ^2/NDF : 1161922.3/55

All: 1705.215+/-0.152 χ^2/NDF : 1611635.5/100

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 788.736 ± 657.246 $\chi^2/\text{NDF}: 28.5/25$

Left Out: 442.187 ± 440.335 $\chi^2/\text{NDF}: 33.9/24$

Right Out: 172.181 ± 349.107 $\chi^2/\text{NDF}: 41.1/30$

Left In: -88.508 ± 1094.838 $\chi^2/\text{NDF}: 13.4/22$

Left: 368.296 ± 408.531 $\chi^2/\text{NDF}: 47.5/47$

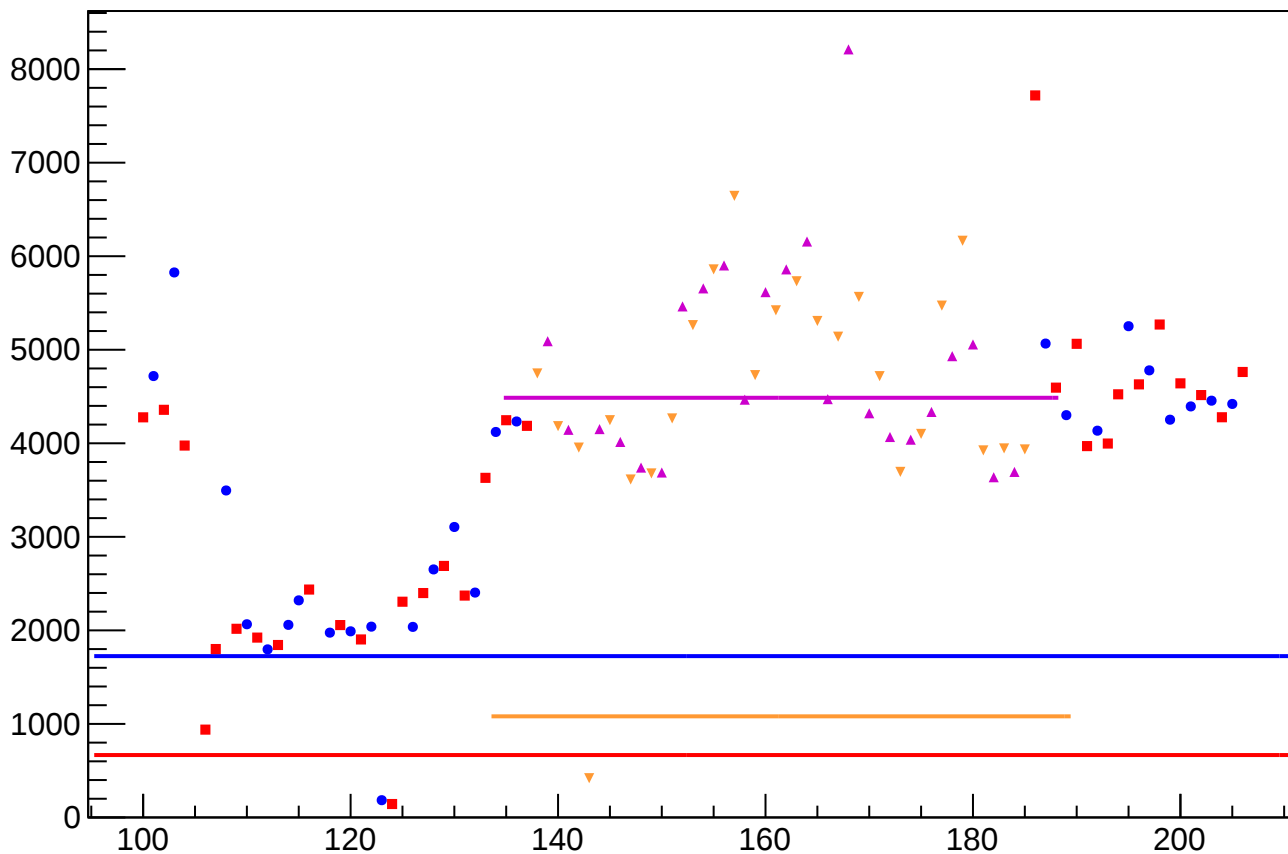
Right: 307.855 ± 308.312 $\chi^2/\text{NDF}: 70.3/56$

In: 556.346 ± 563.506 $\chi^2/\text{NDF}: 42.4/48$

Out: 276.393 ± 273.562 $\chi^2/\text{NDF}: 75.2/55$

All: 329.788 ± 246.095 $\chi^2/\text{NDF}: 117.8/104$

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1724.734 $\pm$ 0.465

χ^2 /NDF: 12033295.9/25

Left Out: 1081.004 $\pm$ 0.311

χ^2 /NDF: 24456244.2/24

Right Out: 667.194 $\pm$ 0.247

χ^2 /NDF: 22374360.9/30

Left In: 4486.570 $\pm$ 0.774

χ^2 /NDF: 1181598.1/22

Left: 1555.179 $\pm$ 0.289

χ^2 /NDF: 42294704.7/47

Right: 899.908 $\pm$ 0.218

χ^2 /NDF: 38446281.7/56

In: 2456.369 $\pm$ 0.398

χ^2 /NDF: 22570396.7/48

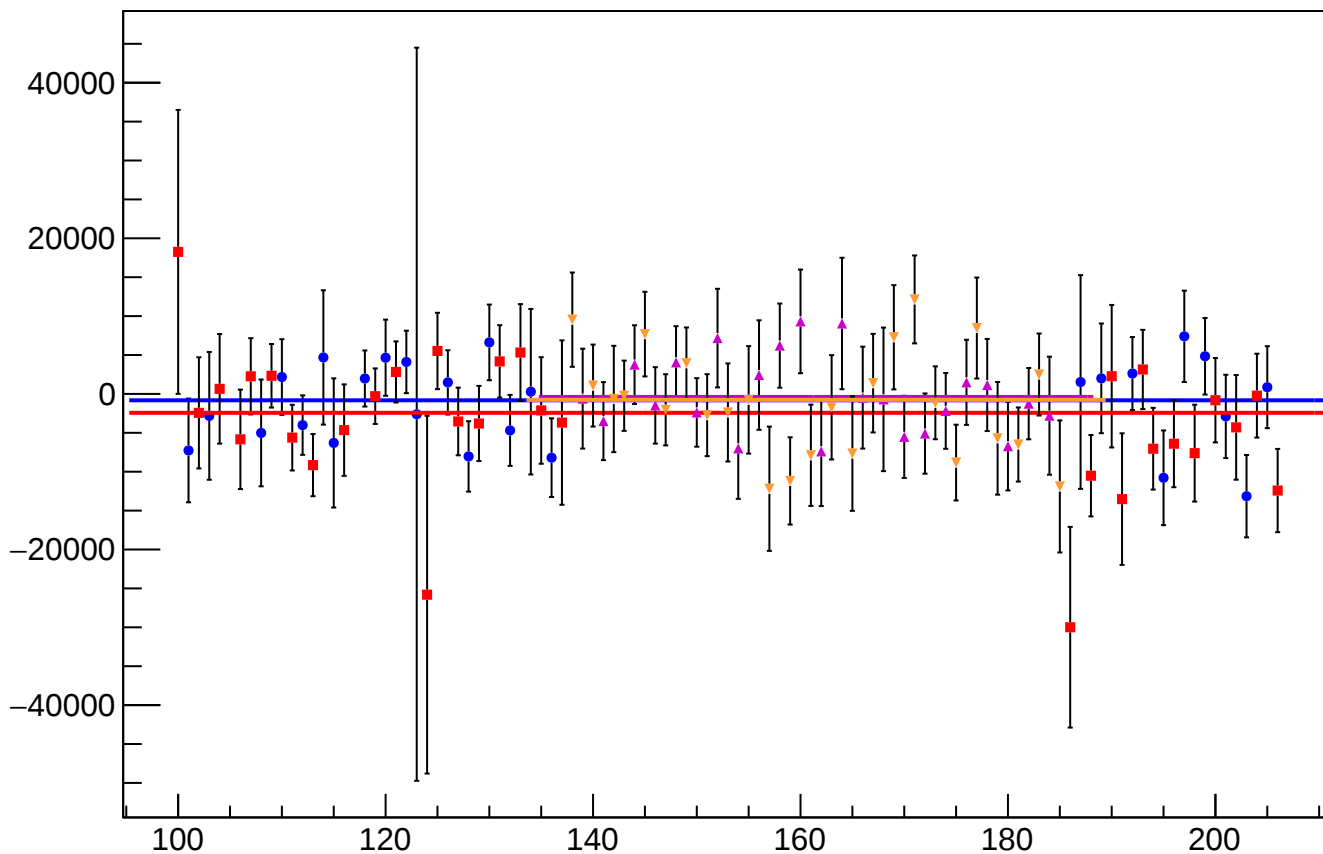
Out: 826.909 $\pm$ 0.193

χ^2 /NDF: 47915184.7/55

All: 1137.689 $\pm$ 0.174

χ^2 /NDF: 84019279.0/103

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -821.755+/-1054.586 χ^2/NDF : 27.1/25

Left Out: -766.008+/-1147.372 χ^2/NDF :29.9/24

Right Out: -2429.858+/-986.390 χ^2/NDF : 33.0/30

Left In: -388.944+/-1186.300 χ^2/NDF :14.2/22

Left: -583.764+/-824.733 χ^2/NDF : 44.2/47

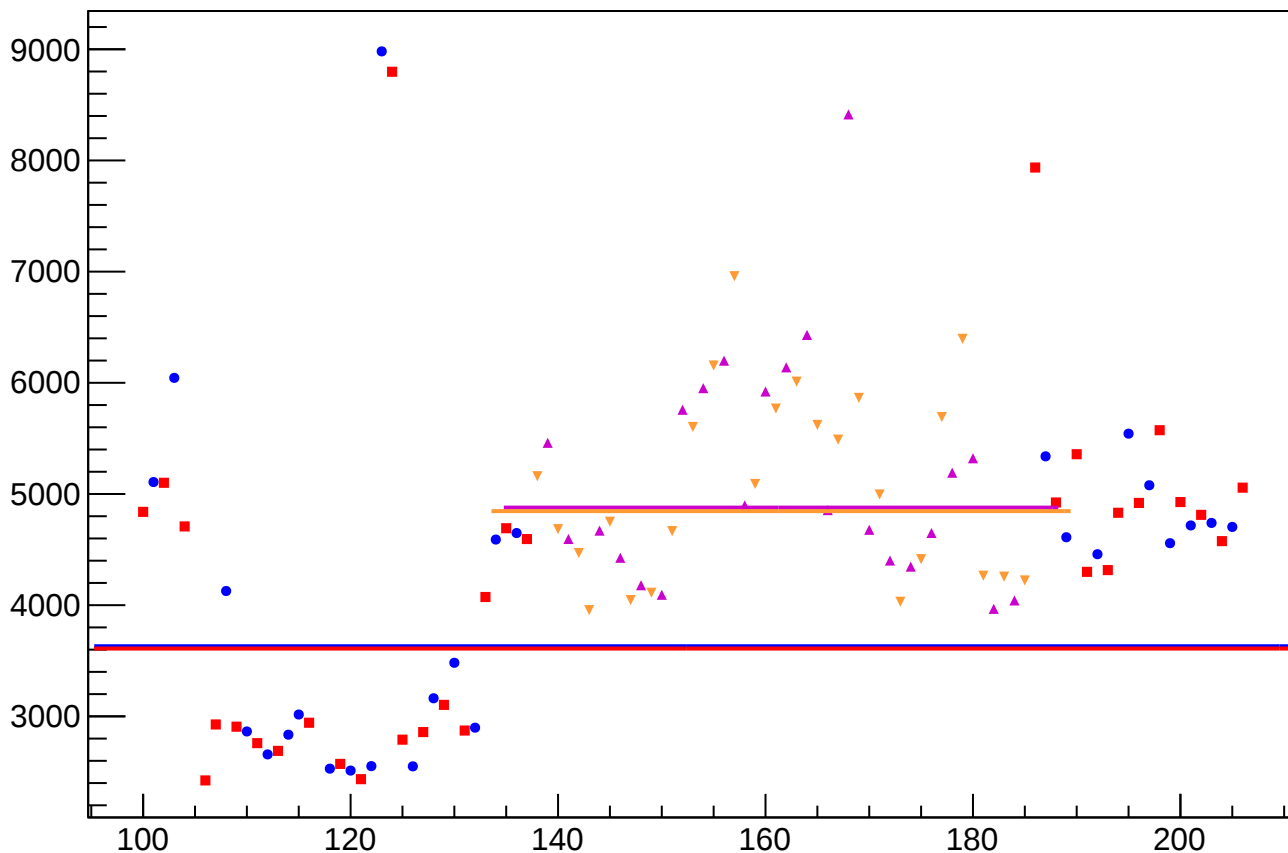
Right: -1679.479+/-720.386 χ^2/NDF : 61.3/56

In: -630.701+/-788.175 χ^2/NDF :41.3/48

Out: -1722.752+/-747.979 χ^2/NDF :64.2/55

All: -1205.283+/-542.555 χ^2/NDF : 106.5/104

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3630.685 $\pm$ 0.746 χ^2 /NDF: 2034432.9/25

Left Out: 4845.779 $\pm$ 0.811 χ^2 /NDF: 909173.9/24

Right Out: 3609.733 $\pm$ 0.691 χ^2 /NDF: 2576640.0/30

Left In: 4877.456 $\pm$ 0.839 χ^2 /NDF: 958623.2/22

Left: 4861.089 $\pm$ 0.583 χ^2 /NDF: 1868533.9/47

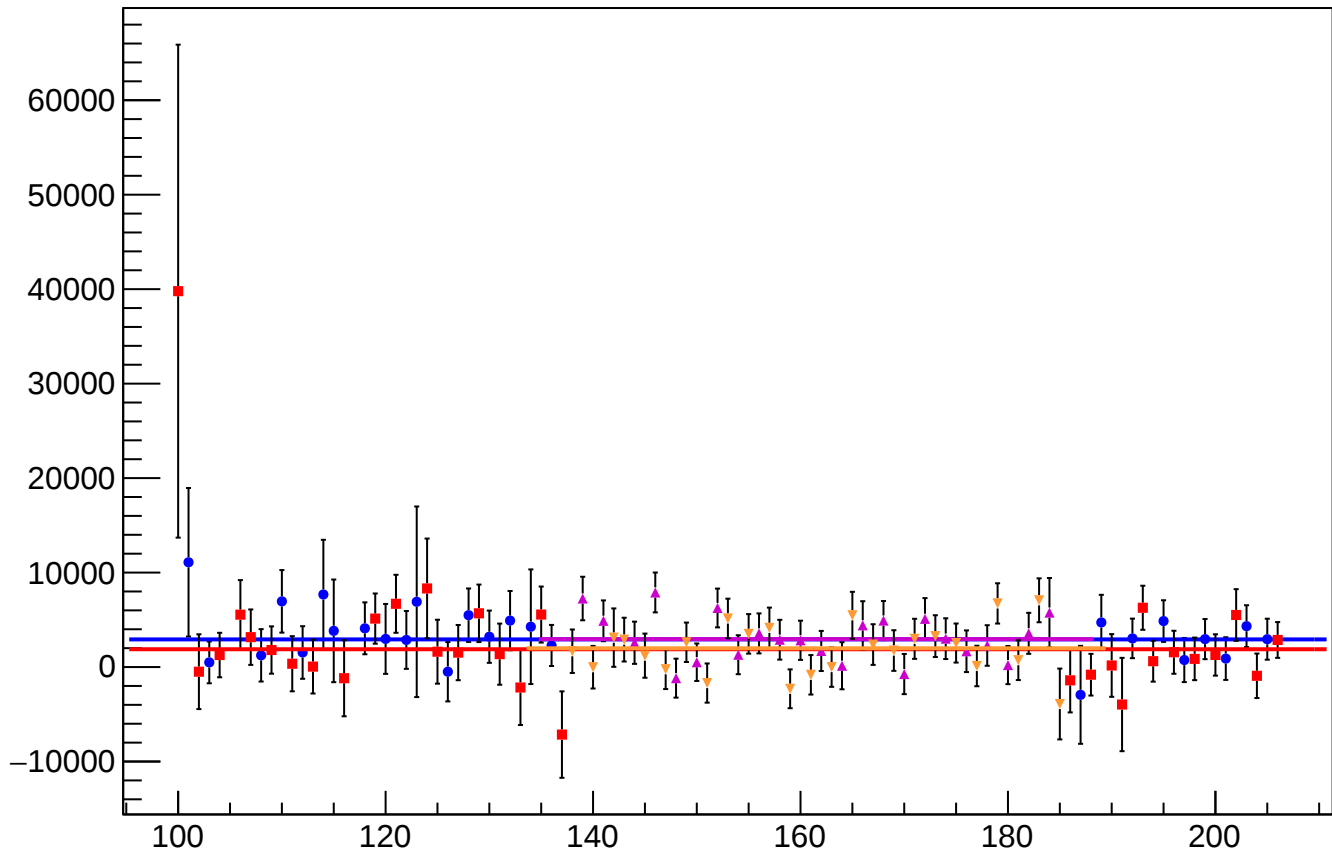
Right: 3619.420 $\pm$ 0.507 χ^2 /NDF: 4611497.4/56

In: 4181.039 $\pm$ 0.557 χ^2 /NDF: 4227004.0/48

Out: 4129.822 $\pm$ 0.526 χ^2 /NDF: 4830259.1/55

All: 4153.964 $\pm$ 0.383 χ^2 /NDF: 9061727.4/10

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2926.851+/-553.883 χ^2/NDF : 12.5/25

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1884.561+/-511.027 χ^2/NDF : 30.3/30

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

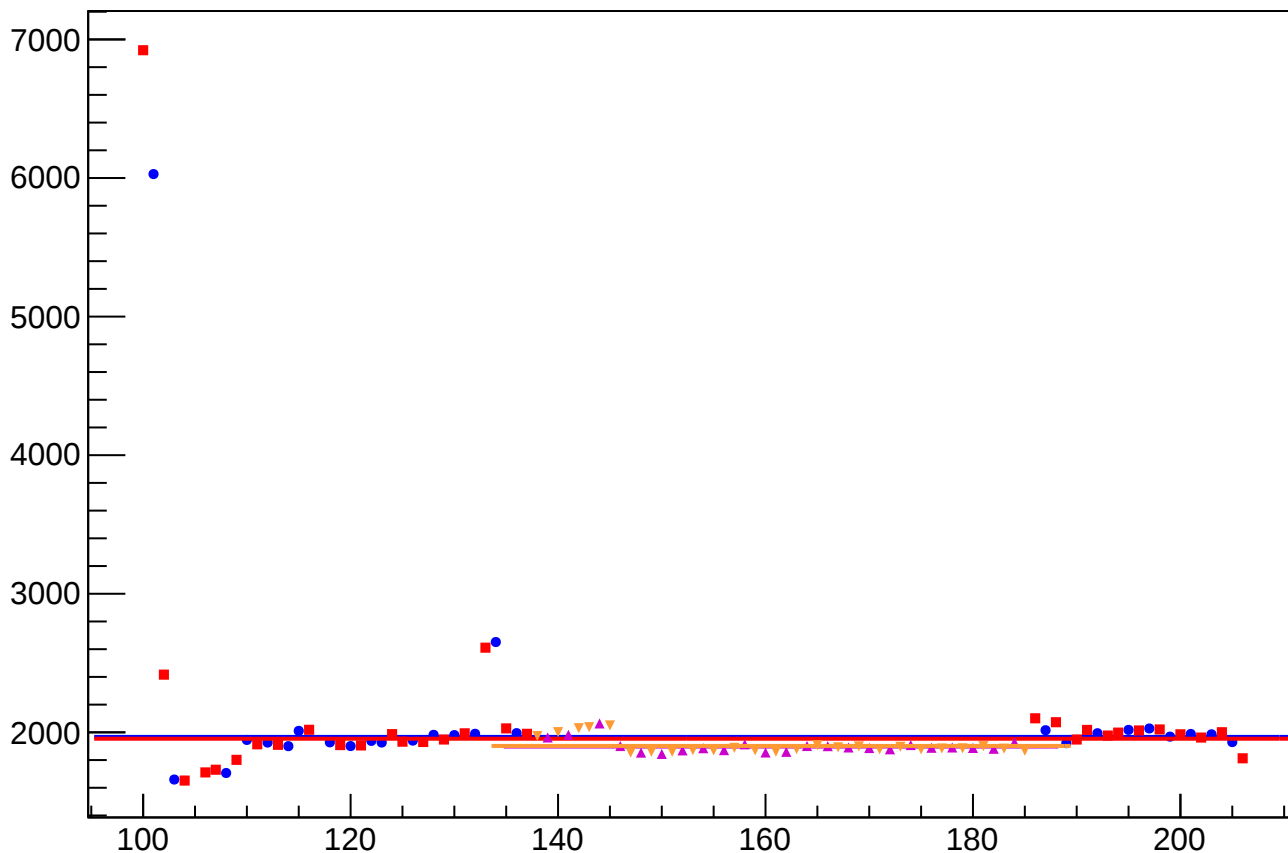
Right: 2363.828+/-375.589 χ^2/NDF : 44.7/56

In: 2944.210+/-351.375 χ^2/NDF : 40.9/48

Out: 1942.153+/-334.816 χ^2/NDF : 62.7/55

All: 2419.014+/-242.394 χ^2/NDF : 107.9/104

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1967.033+/-0.392 χ^2/NDF : 622434.2/25

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1953.938+/-0.361 χ^2/NDF : 247232.1/30

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

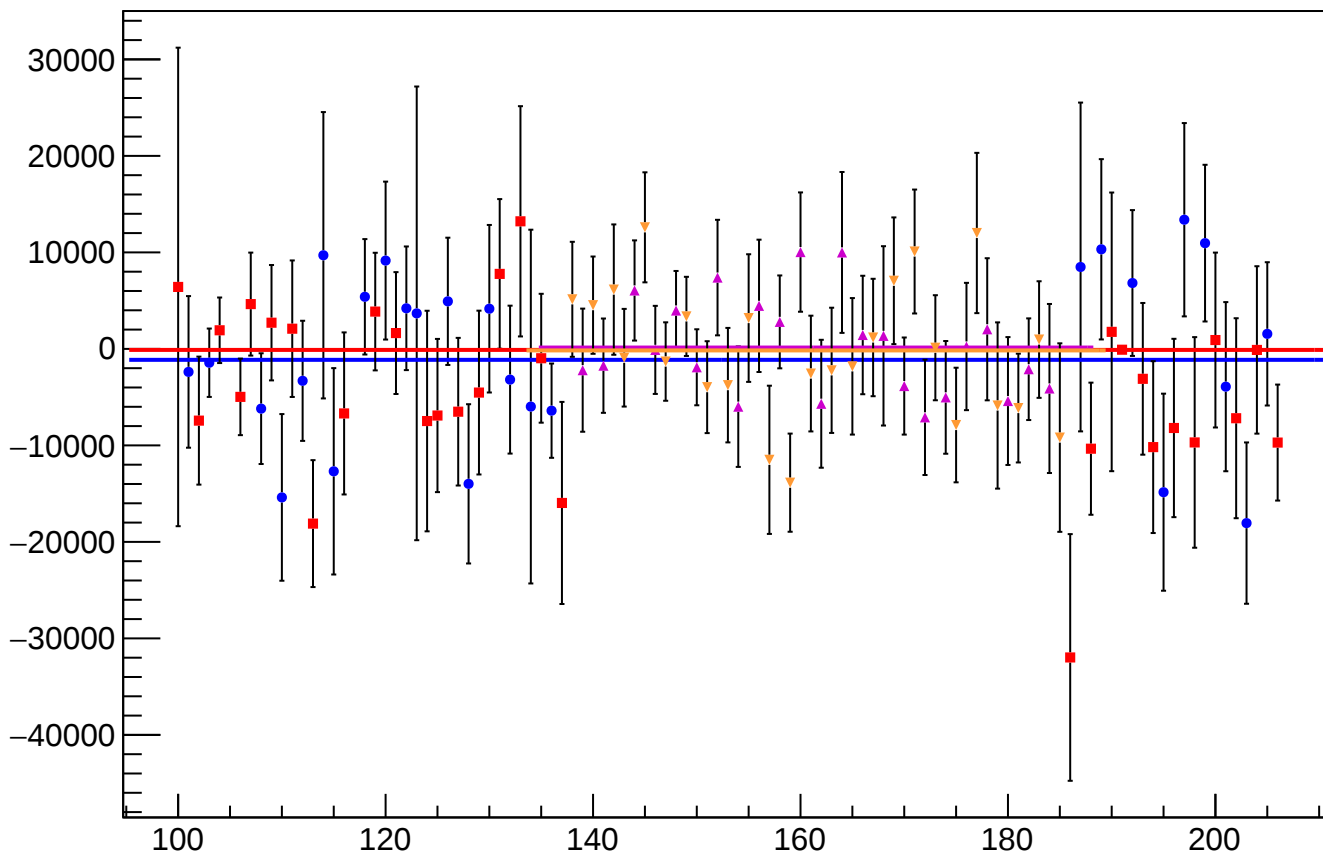
Right: 1959.952+/-0.265 χ^2/NDF : 870270.8/56

In: 1925.457+/-0.248 χ^2/NDF : 662472.5/48

Out: 1924.257+/-0.237 χ^2/NDF : 289537.9/55

All: 1924.828+/-0.171 χ^2/NDF : 952022.7/104

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -1134.376 ± 1453.488 $\chi^2/\text{NDF}: 27.2/25$

Left Out: -157.539 ± 1165.844 $\chi^2/\text{NDF}: 29.5/24$

Right Out: -106.075 ± 109.551 $\chi^2/\text{NDF}: 34.1/30$

Left In: 139.000 ± 1190.889 $\chi^2/\text{NDF}: 14.7/22$

Left: -12.420 ± 833.090 $\chi^2/\text{NDF}: 44.2/47$

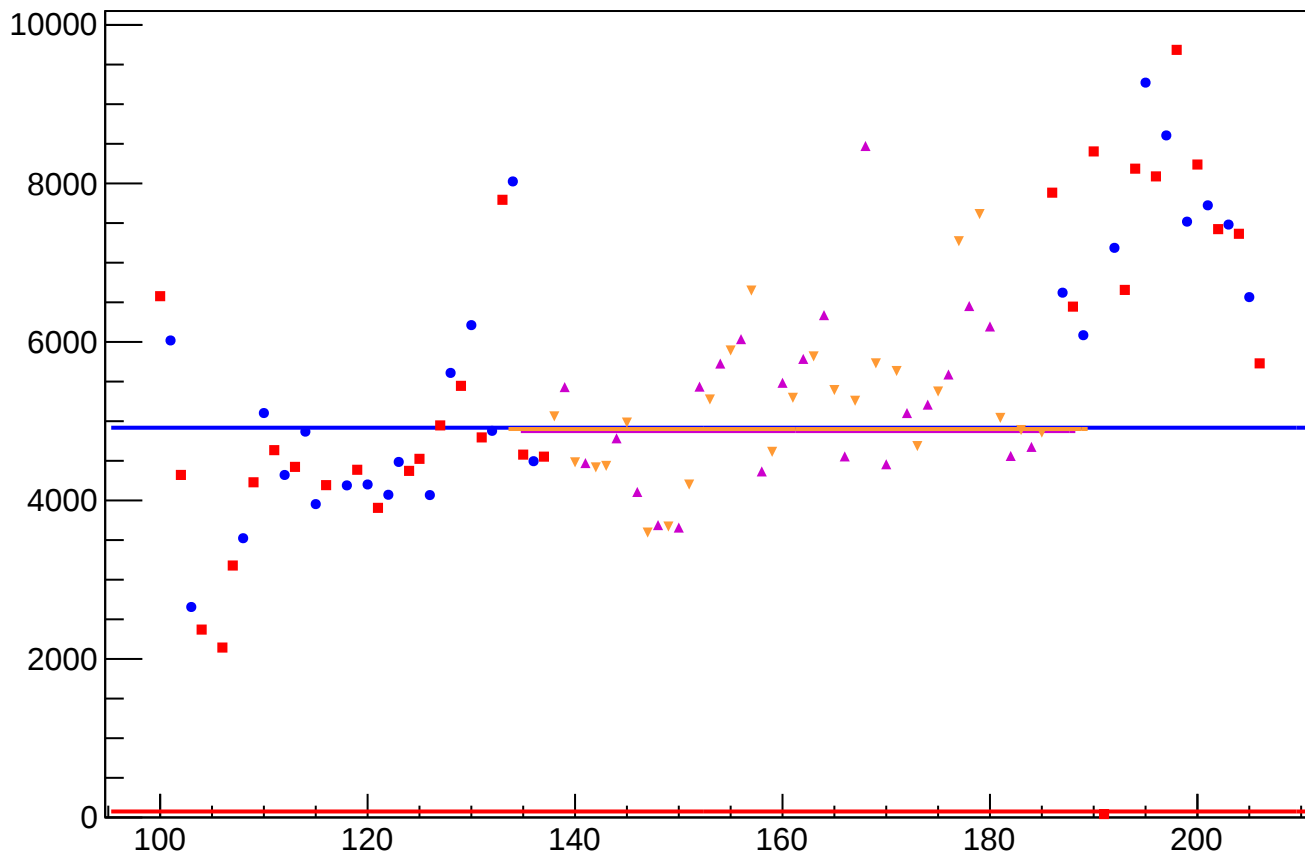
Right: -111.884 ± 109.242 $\chi^2/\text{NDF}: 61.8/56$

In: -372.471 ± 921.178 $\chi^2/\text{NDF}: 42.4/48$

Out: -106.526 ± 109.071 $\chi^2/\text{NDF}: 63.6/55$

All: -110.203 ± 108.314 $\chi^2/\text{NDF}: 106.0/104$

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4917.793+/-1.028 χ^2/NDF : 2816615.4/25

Left Out: 4901.357+/-0.824 χ^2/NDF : 1136916.0/24

Right Out: 75.373+/-0.077 χ^2/NDF : 28604980.9/30

Left In: 4875.112+/-0.842 χ^2/NDF : 1229198.0/22

Left: 4888.513+/-0.589 χ^2/NDF : 2366610.1/47

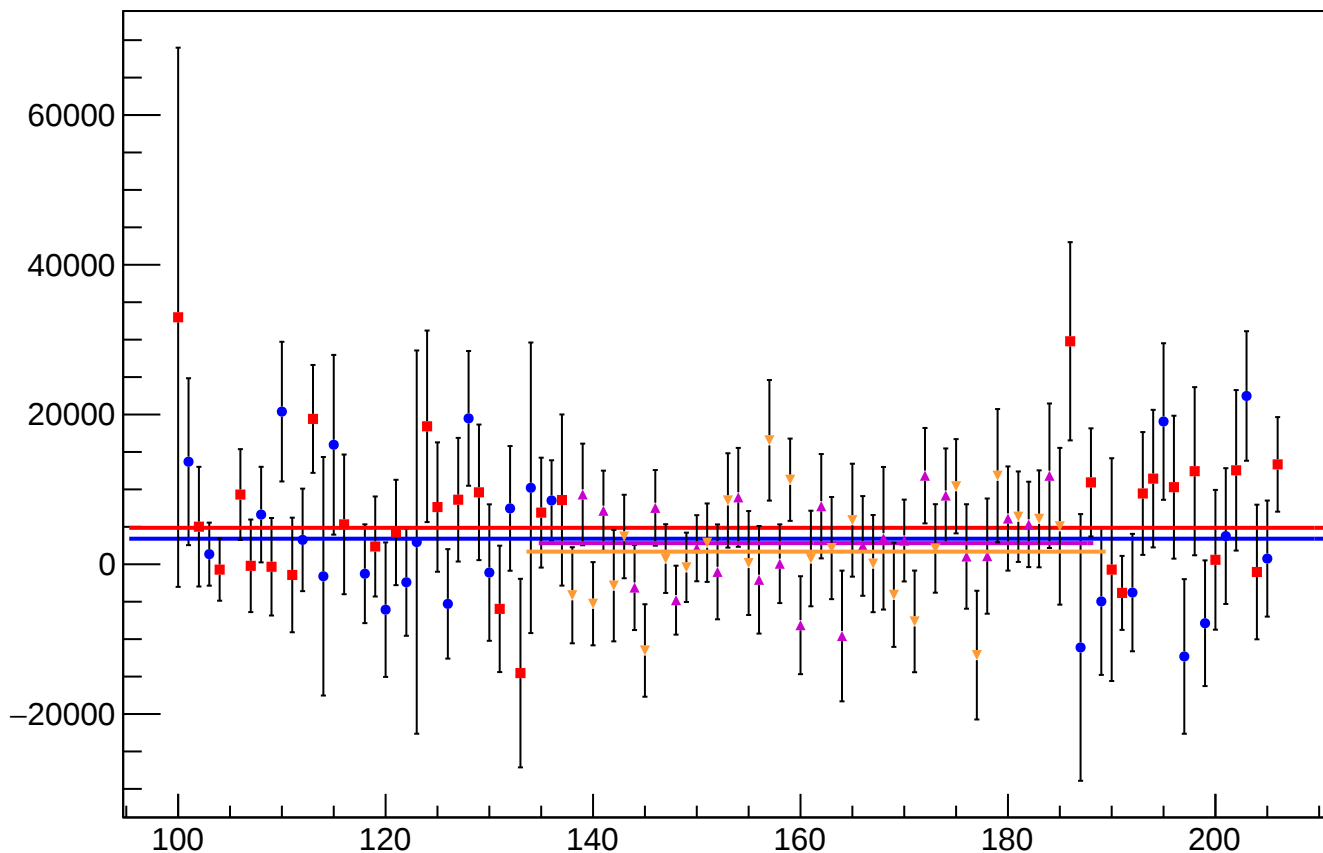
Right: 102.727+/-0.077 χ^2/NDF : 53495129.2/56

In: 4892.255+/-0.651 χ^2/NDF : 4046845.3/48

Out: 117.613+/-0.077 χ^2/NDF : 63712441.5/55

All: 183.626+/-0.077 χ^2/NDF : 120747382.6/100

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3414.389+/-1603.841 χ^2/NDF : 27.8/25

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 4868.030+/-1402.533 χ^2/NDF : 27.1/30

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

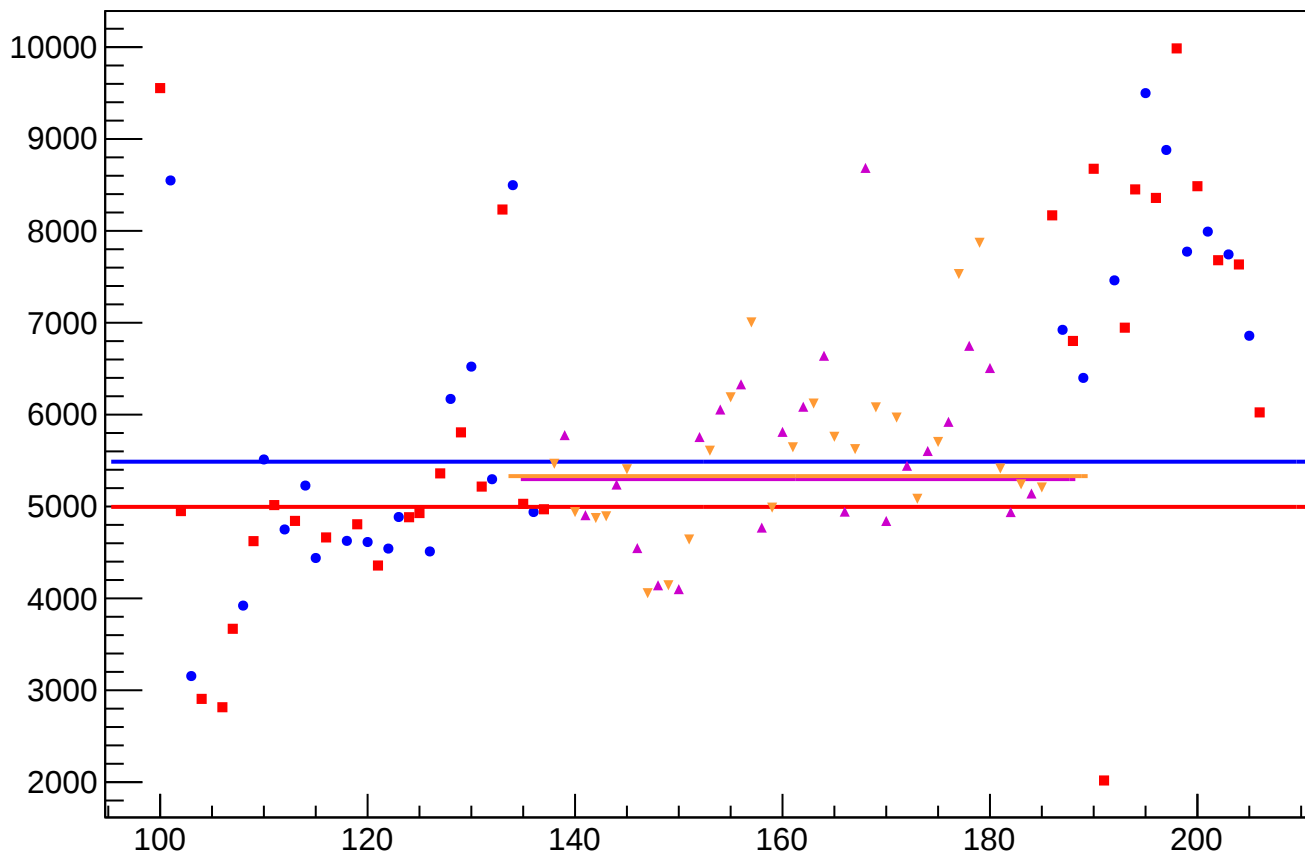
Right: 4238.112+/-1055.784 χ^2/NDF : 55.4/56

In: 3055.612+/-1004.449 χ^2/NDF : 45.9/48

Out: 3109.512+/-937.986 χ^2/NDF : 55.4/55

All: 3084.404+/-685.549 χ^2/NDF : 101.3/104

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5487.777 $\pm$ 1.134 χ^2/NDF : 2323903.8/25

Left Out: 5330.725 $\pm$ 0.892 χ^2/NDF : 868061.7/24

Right Out: 4995.952 $\pm$ 0.988 χ^2/NDF : 3866814.4/30

Left In: 5298.329 $\pm$ 0.911 χ^2/NDF : 956021.6/22

Left: 5314.867 $\pm$ 0.637 χ^2/NDF : 1824728.8/47

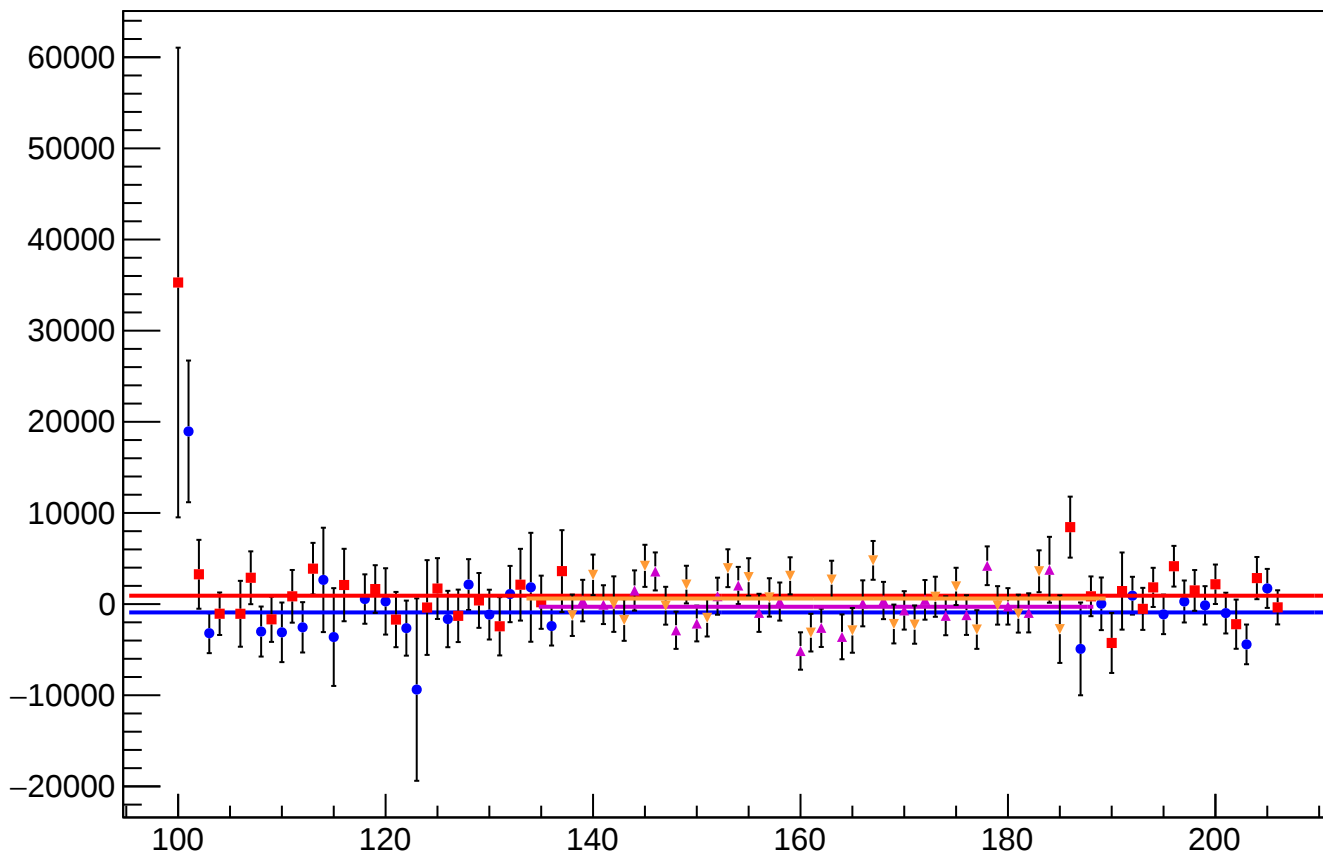
Right: 5208.152 $\pm$ 0.745 χ^2/NDF : 6297646.4/56

In: 5372.635 $\pm$ 0.710 χ^2/NDF : 3296885.5/48

Out: 5180.357 $\pm$ 0.662 χ^2/NDF : 4798125.8/55

All: 5269.760 $\pm$ 0.484 χ^2/NDF : 8134222.8/100

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -913.156+/-546.676 χ^2/NDF : 19.5/25

Left Out: 612.314+/-438.264 χ^2/NDF : 32.7/24

Right Out: 921.259+/-503.866 χ^2/NDF : 22.2/30

Left In: -293.009+/-449.575 χ^2/NDF : 23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

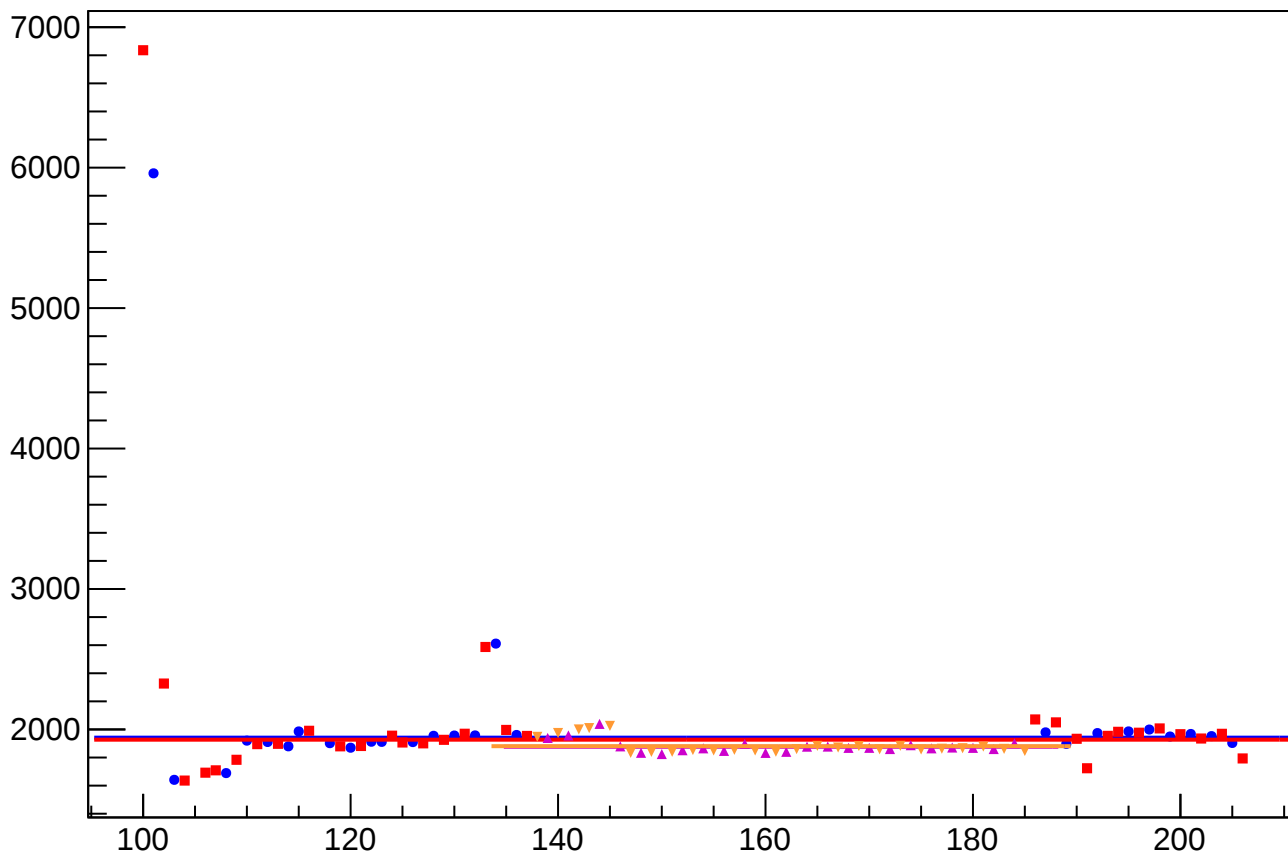
Right: 78.681+/-370.499 χ^2/NDF : 47.8/56

In: -543.208+/-347.237 χ^2/NDF : 43.9/48

Out: 745.378+/-330.678 χ^2/NDF : 55.1/55

All: 132.542+/-239.464 χ^2/NDF : 106.3/104

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1941.550+/-0.387 χ^2/NDF : 620802.8/25

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1927.101+/-0.356 χ^2/NDF : 245124.0/30

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

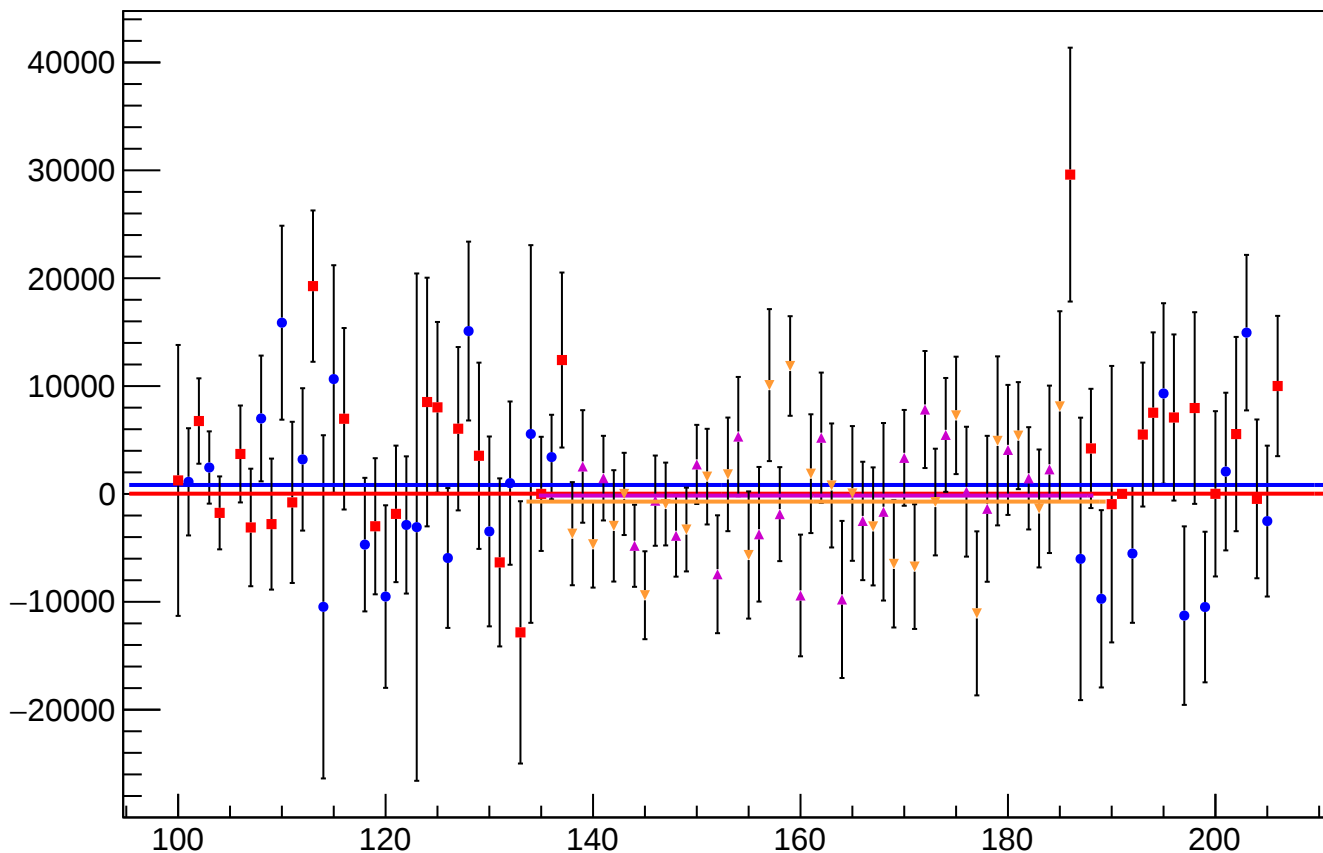
Right: 1933.730+/-0.262 χ^2/NDF : 866682.9/56

In: 1902.855+/-0.246 χ^2/NDF : 658099.6/48

Out: 1900.771+/-0.234 χ^2/NDF : 283402.1/55

All: 1901.762+/-0.169 χ^2/NDF : 941539.5/104

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 832.456 ± 1331.972 $\chi^2/\text{NDF}: 25.9/25$

Left Out: -707.785 ± 1017.719 $\chi^2/\text{NDF}: 27.1/24$

Right Out: 24.573 ± 85.796 $\chi^2/\text{NDF}: 32.4/30$

Left In: -150.495 ± 1053.655 $\chi^2/\text{NDF}: 16.9/22$

Left: -438.806 ± 732.011 $\chi^2/\text{NDF}: 44.2/47$

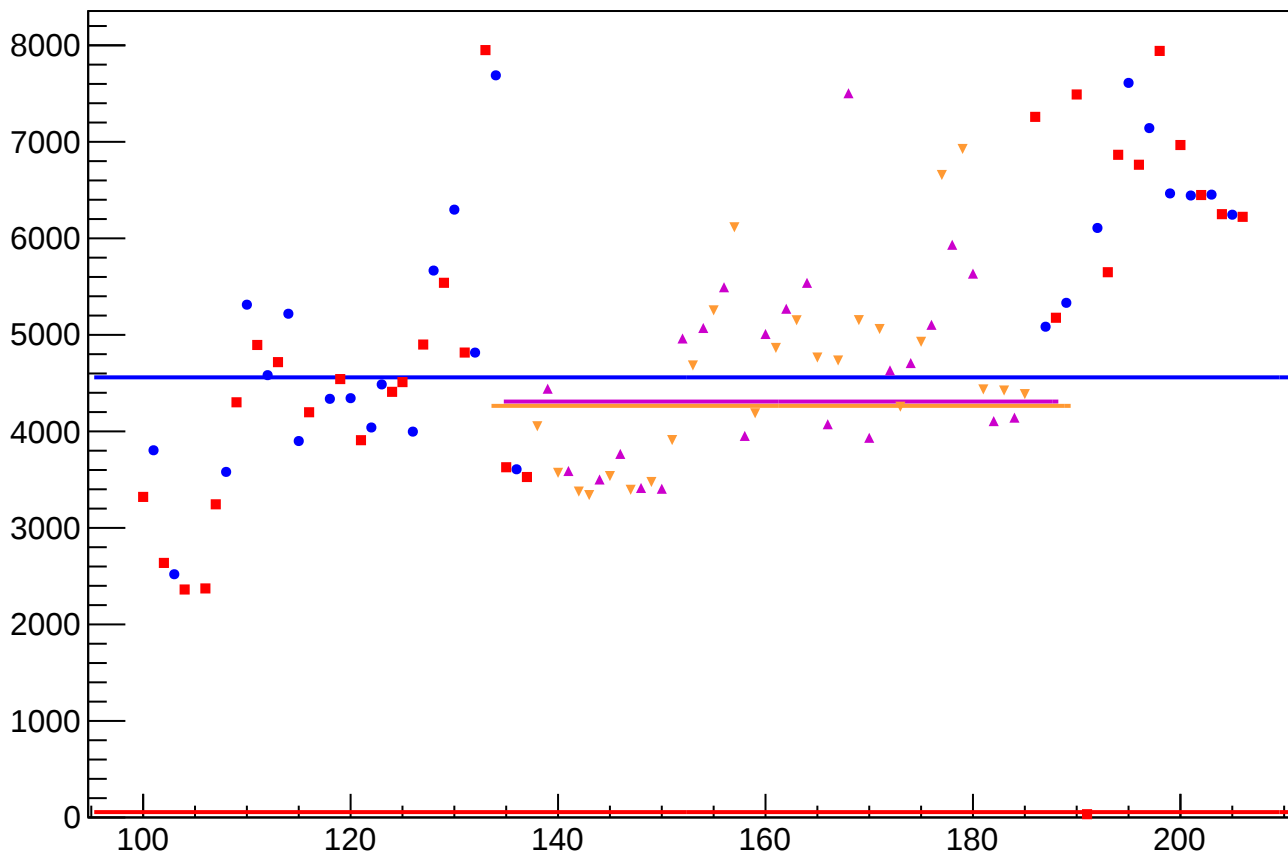
Right: 27.911 ± 85.619 $\chi^2/\text{NDF}: 58.7/56$

In: 227.845 ± 826.362 $\chi^2/\text{NDF}: 43.1/48$

Out: 19.405 ± 85.493 $\chi^2/\text{NDF}: 60.1/55$

All: 21.613 ± 85.039 $\chi^2/\text{NDF}: 103.3/104$

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4559.879+/-0.942 χ^2/NDF : 2333550.3/25

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 55.405+/-0.061 χ^2/NDF : 28776814.0/30

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

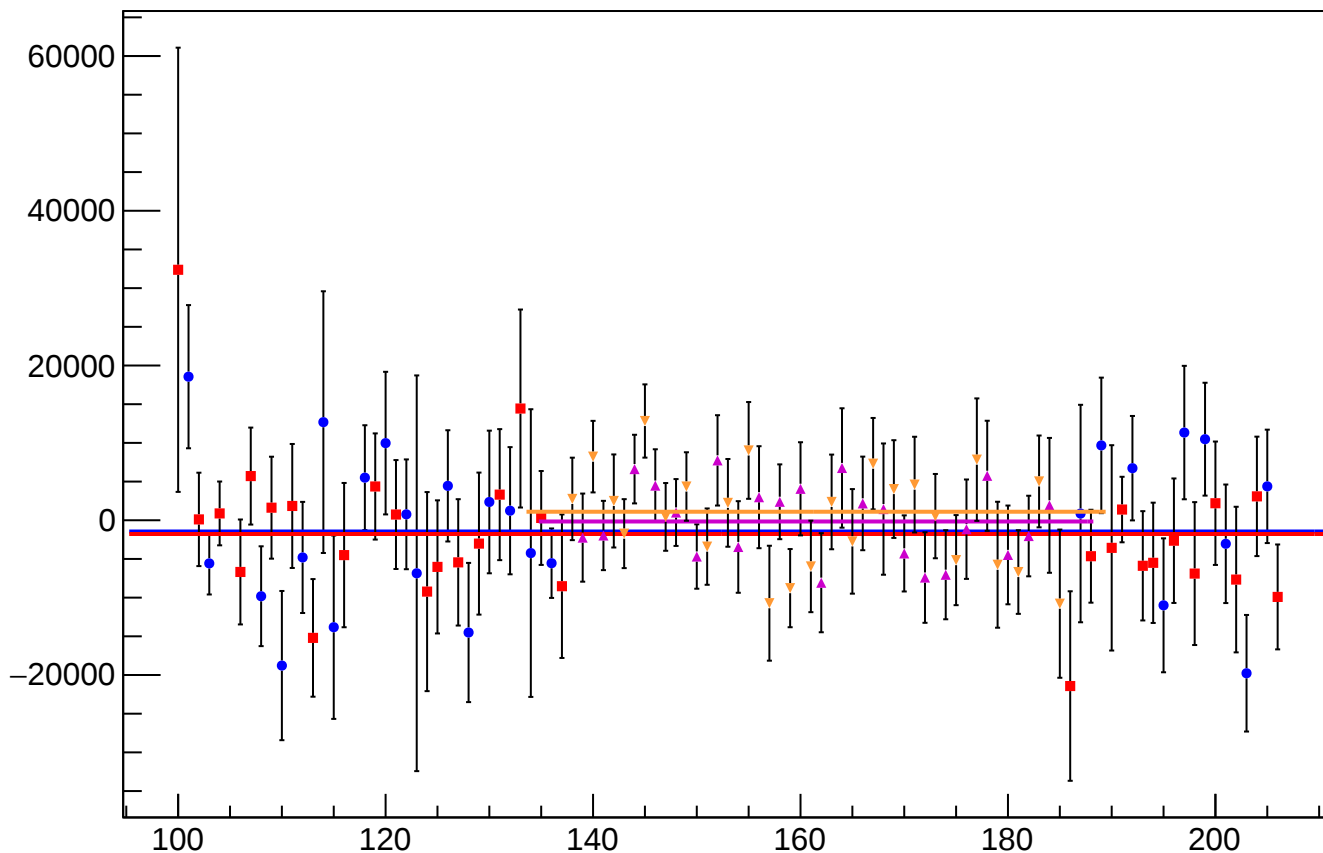
Right: 74.017+/-0.061 χ^2/NDF : 53889092.3/56

In: 4405.585+/-0.584 χ^2/NDF : 3682314.5/48

Out: 85.107+/-0.060 χ^2/NDF : 64099116.1/55

All: 130.861+/-0.060 χ^2/NDF : 121872888.6/100

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1452.951 ± 1502.406 $\chi^2/\text{NDF}: 35.1/25$

Left Out: 1102.204 ± 1126.663 $\chi^2/\text{NDF}: 28.6/24$

Right Out: -1775.559 ± 1319.876 $\chi^2/\text{NDF}: 18.6/30$

Left In: -158.683 ± 1161.507 $\chi^2/\text{NDF}: 15.5/22$

Left: 490.957 ± 808.709 $\chi^2/\text{NDF}: 44.7/47$

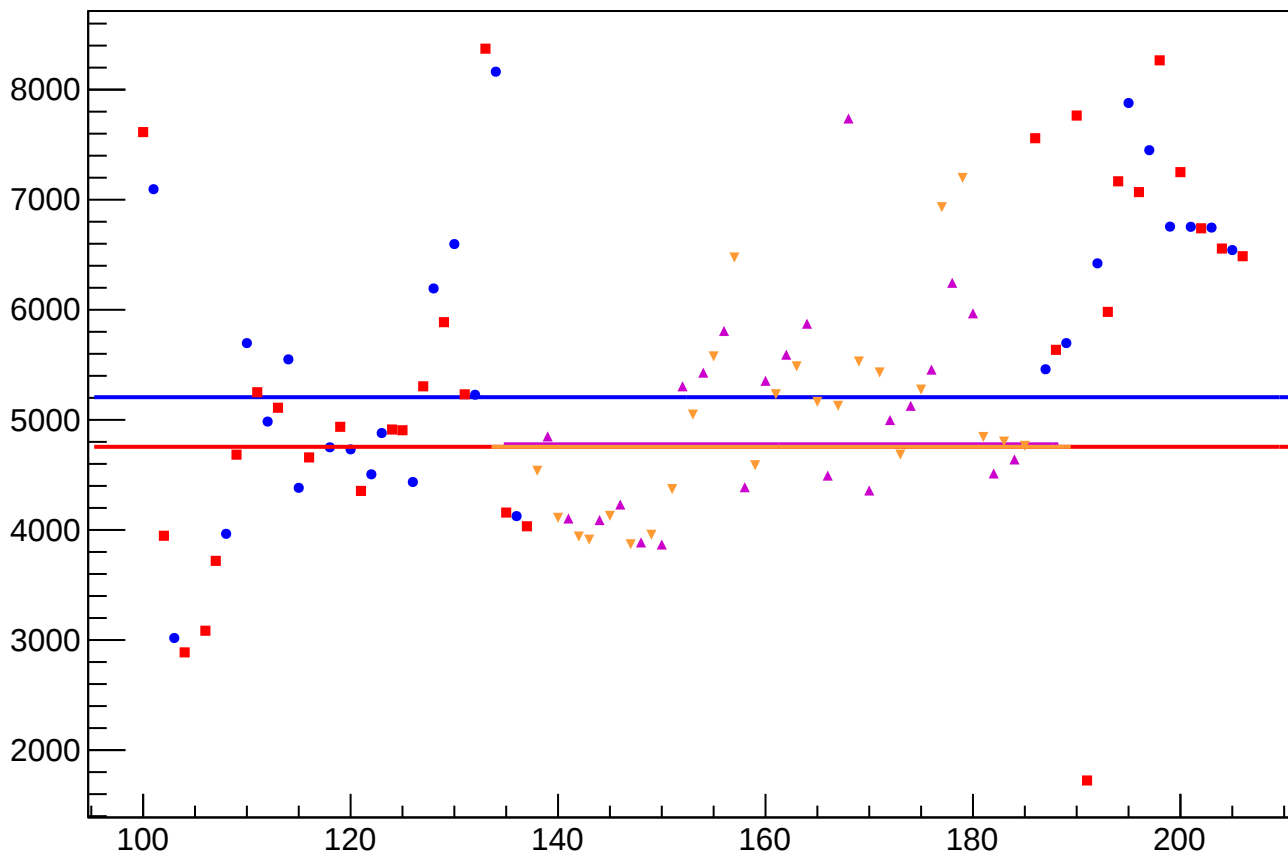
Right: -1635.033 ± 991.582 $\chi^2/\text{NDF}: 53.7/56$

In: -642.859 ± 918.918 $\chi^2/\text{NDF}: 51.1/48$

Out: -110.818 ± 856.919 $\chi^2/\text{NDF}: 49.9/55$

All: -358.286 ± 626.706 $\chi^2/\text{NDF}: 101.2/104$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5206.003+/-1.062

χ^2/NDF : 1780588.0/25

Left Out: 4755.383+/-0.797

χ^2/NDF : 953328.0/24

Right Out: 4755.213+/-0.930

χ^2/NDF : 3429918.2/30

Left In: 4777.831+/-0.821

χ^2/NDF : 950291.2/22

Left: 4766.265+/-0.572

χ^2/NDF : 1904004.1/47

Right: 4950.822+/-0.700

χ^2/NDF : 5312430.6/56

In: 4938.007+/-0.650

χ^2/NDF : 2832551.4/48

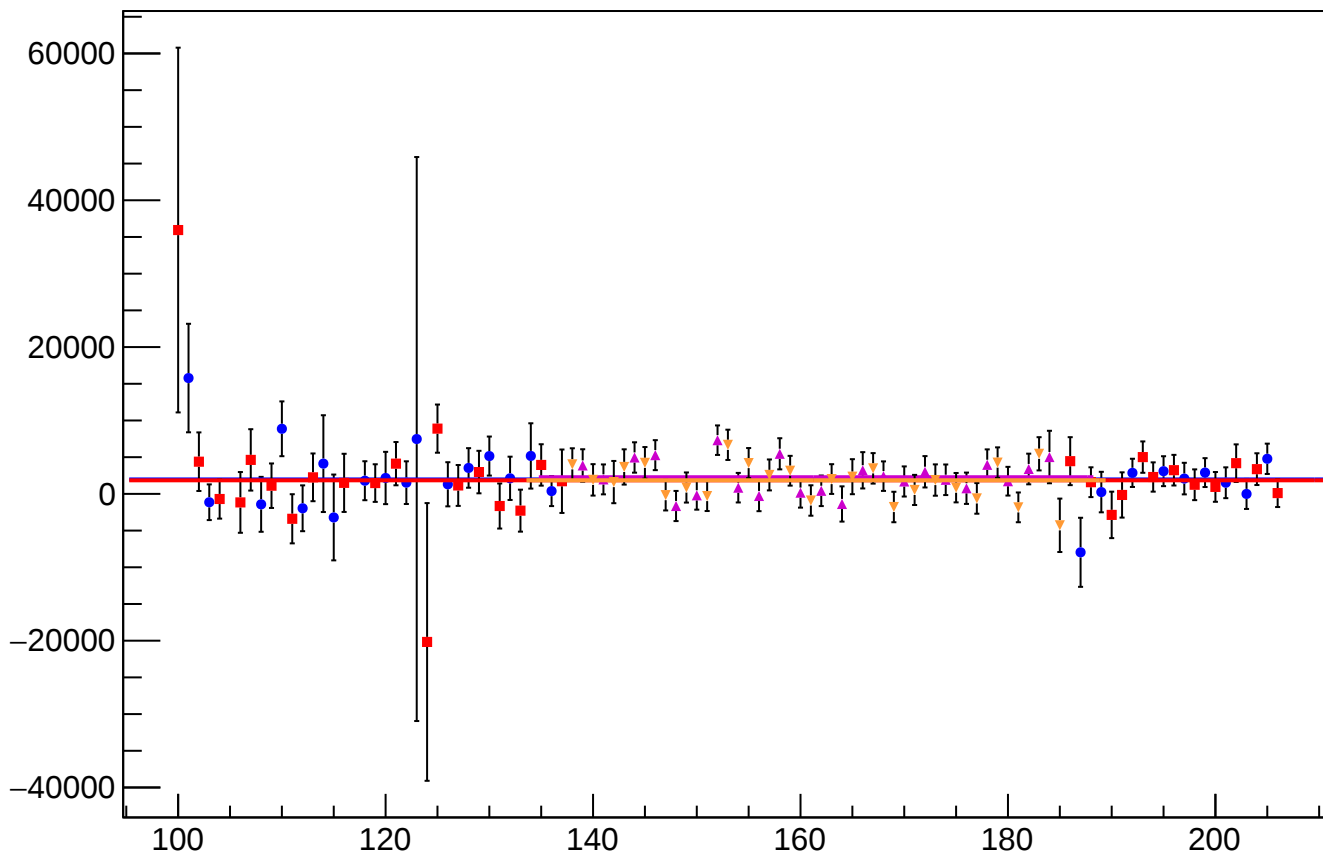
Out: 4755.311+/-0.605

χ^2/NDF : 4383246.2/55

All: 4840.158+/-0.443

χ^2/NDF : 7258138.6/10

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1967.624 $\pm$ 535.877 χ^2 /NDF: 23.3/25

Left Out: 1856.570 $\pm$ 430.977 χ^2 /NDF:30.0/24

Right Out: 1848.238 $\pm$ 496.900 χ^2 /NDF: 25.8/30

Left In: 2268.464 $\pm$ 441.710 χ^2 /NDF:26.9/22

Left: 2057.452 $\pm$ 308.471 χ^2 /NDF: 57.3/47

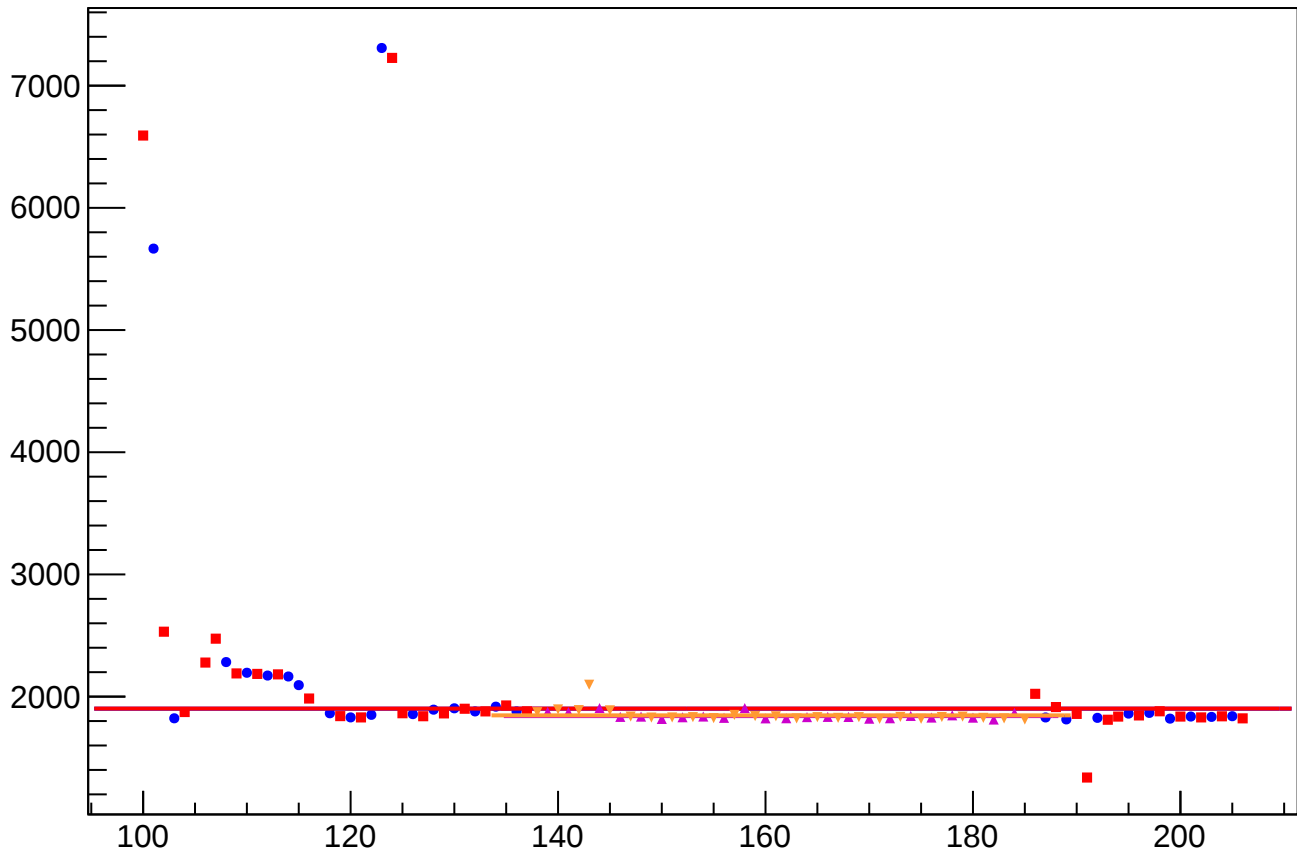
Right: 1903.432 $\pm$ 364.362 χ^2 /NDF: 49.1/56

In: 2146.757 $\pm$ 340.845 χ^2 /NDF:50.3/48

Out: 1852.993 $\pm$ 325.577 χ^2 /NDF:55.8/55

All: 1993.148 $\pm$ 235.430 χ^2 /NDF: 106.5/104

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1901.001+/-0.379 χ^2/NDF : 633004.6/25

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1902.044+/-0.351 χ^2/NDF : 472725.0/30

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

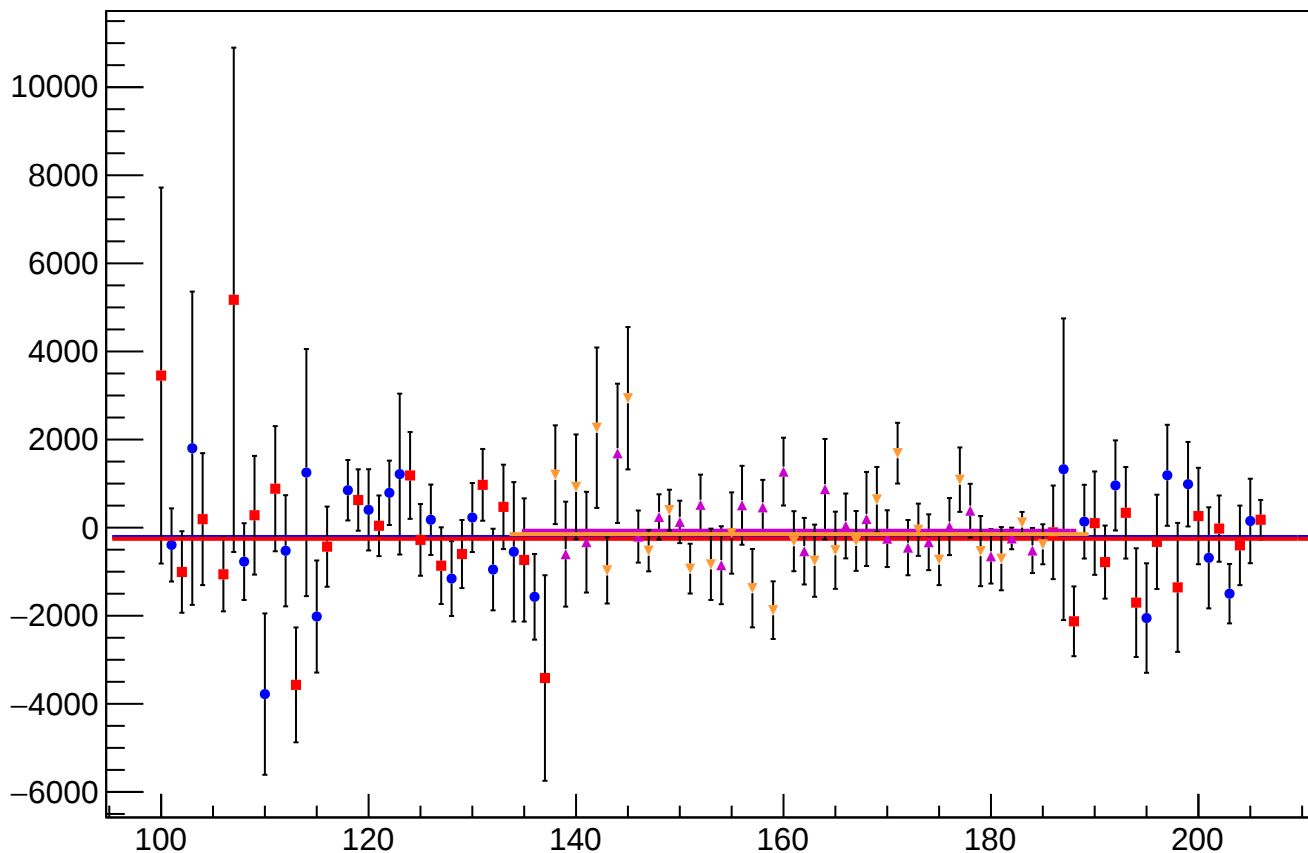
Right: 1901.562+/-0.258 χ^2/NDF : 1105733.7/56

In: 1865.001+/-0.241 χ^2/NDF : 654903.9/48

Out: 1870.404+/-0.230 χ^2/NDF : 514236.8/55

All: 1867.826+/-0.166 χ^2/NDF : 1169403.4/100

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -212.832 ± 195.389 χ^2/NDF : 27.6/25

Left Out: -146.999 ± 121.984 χ^2/NDF : 37.7/24

Right Out: -253.487 ± 168.342 χ^2/NDF : 29.7/30

Left In: -70.340 ± 126.373 χ^2/NDF : 12.3/22

Left: -110.024 ± 87.766 χ^2/NDF : 50.1/47

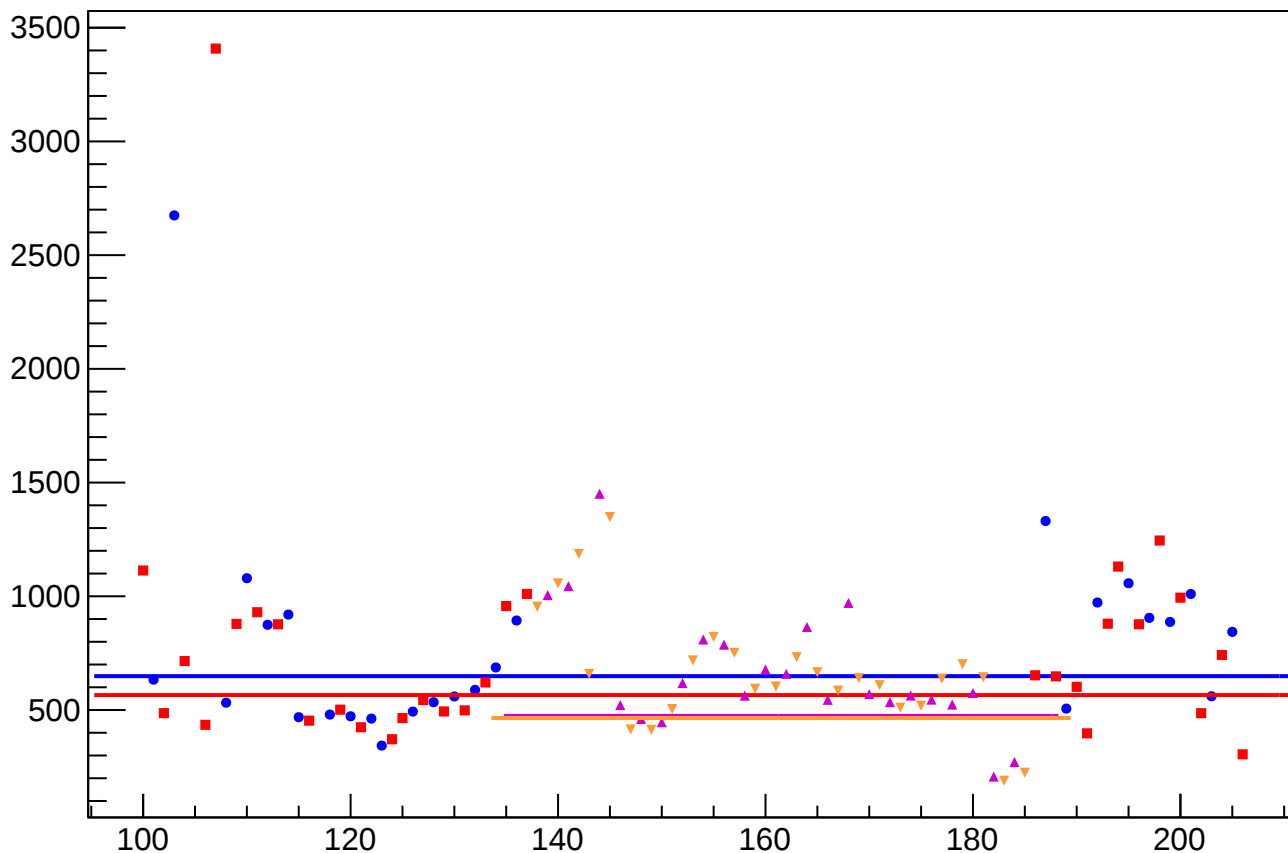
Right: -236.166 ± 127.535 χ^2/NDF : 57.2/56

In: -112.367 ± 106.113 χ^2/NDF : 40.2/48

Out: -183.662 ± 98.777 χ^2/NDF : 67.6/55

All: -150.564 ± 72.300 χ^2/NDF : 108.1/104

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 648.905+/-0.138 χ^2/NDF : 2666501.4/25

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 565.674+/-0.119 χ^2/NDF : 3866401.1/30

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

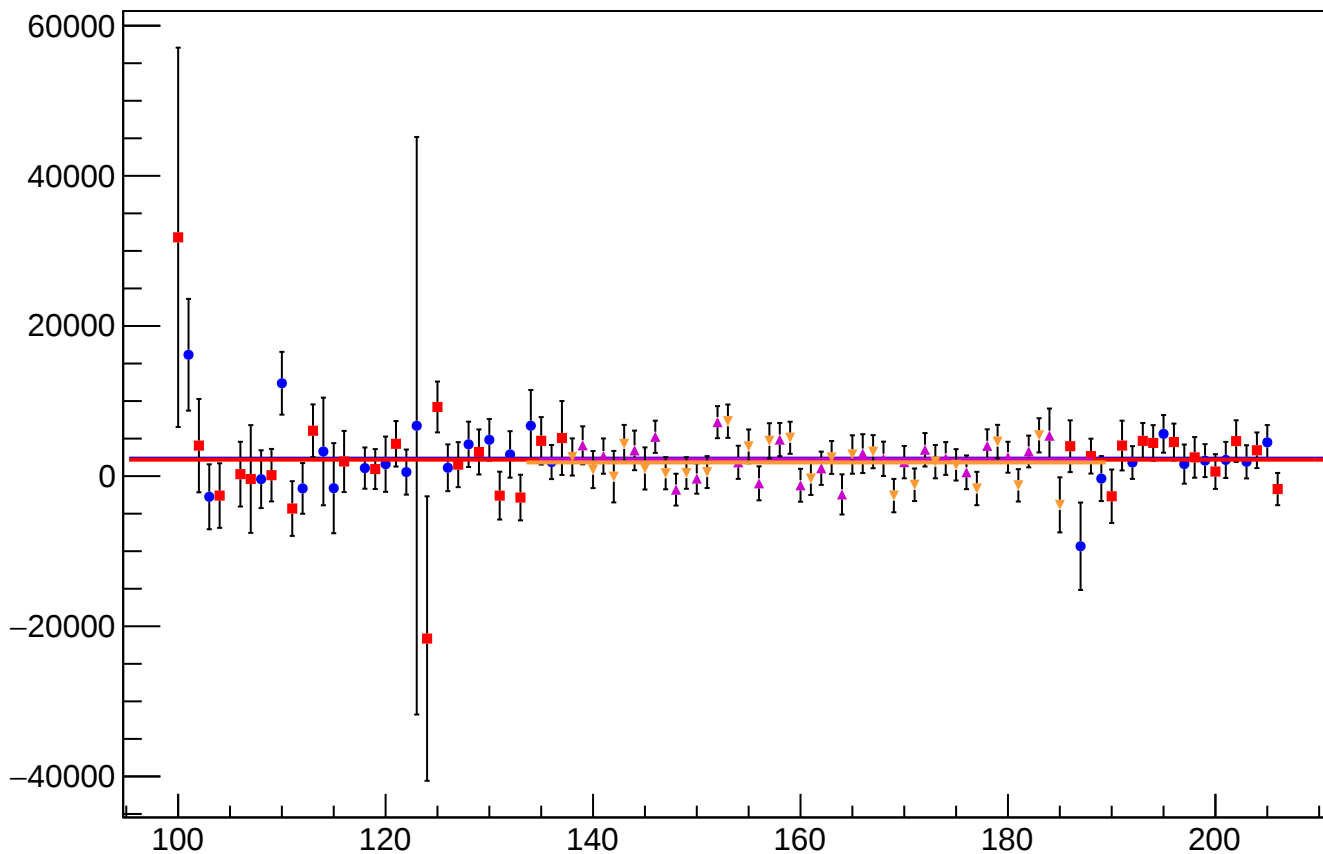
Right: 601.134+/-0.090 χ^2/NDF : 6741190.8/56

In: 525.771+/-0.075 χ^2/NDF : 9966153.1/48

Out: 499.714+/-0.070 χ^2/NDF : 11420813.0/55

All: 511.811+/-0.051 χ^2/NDF : 21451577.6/100

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2328.899 $\pm$ 601.192 χ^2 /NDF: 23.5/25

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 2195.393 $\pm$ 561.482 χ^2 /NDF: 30.8/30

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

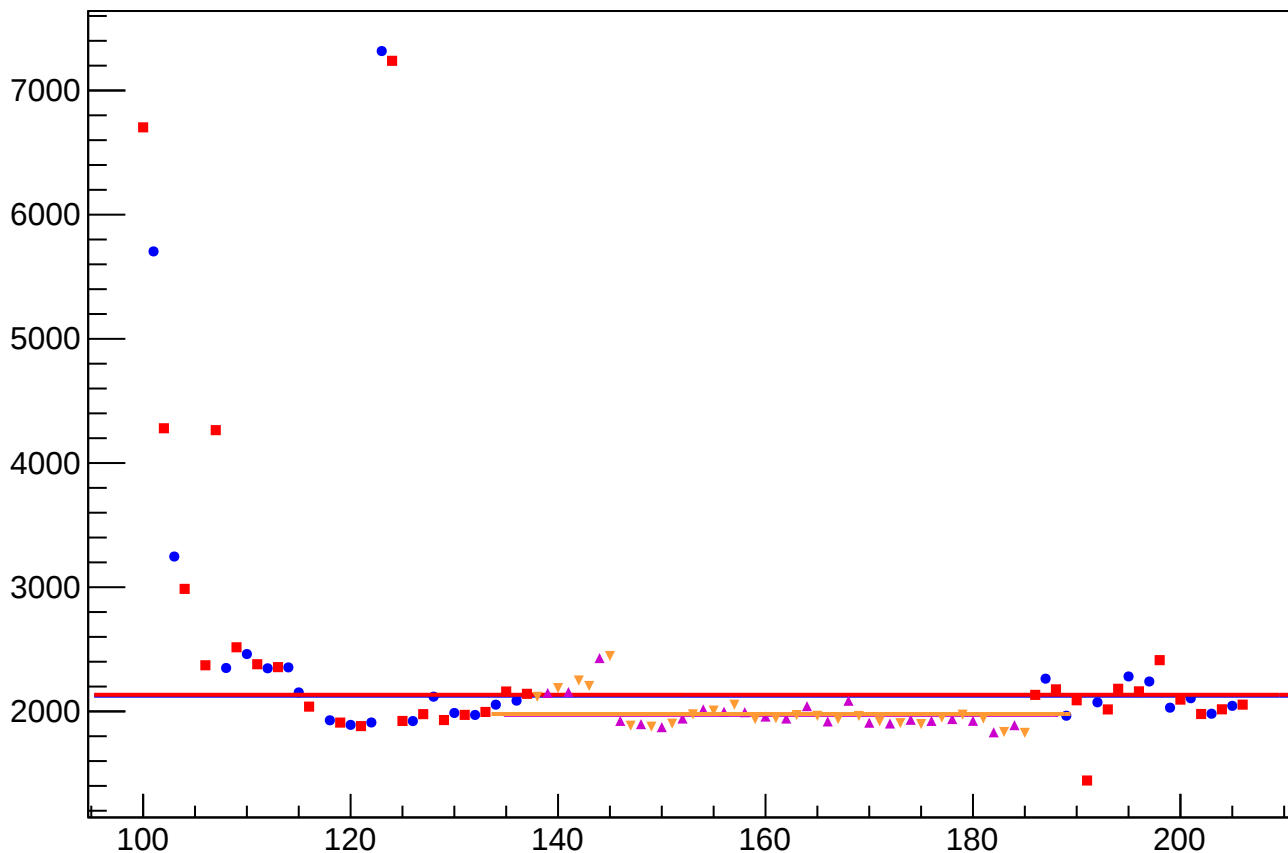
Right: 2257.592 $\pm$ 410.349 χ^2 /NDF: 54.3/56

In: 2254.421 $\pm$ 372.247 χ^2 /NDF:48.8/48

Out: 1974.243 $\pm$ 357.075 χ^2 /NDF:63.2/55

All: 2108.506 $\pm$ 257.687 χ^2 /NDF: 112.3/104

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2126.383+/-0.425 χ^2/NDF : 746645.9/25

Left Out: 1978.997+/-0.327 χ^2/NDF :139299.8/24

Right Out: 2133.968+/-0.397 χ^2/NDF : 941538.2/30

Left In: 1972.166+/-0.335 χ^2/NDF :116452.5/22

Left: 1975.665+/-0.234 χ^2/NDF : 255965.0/47

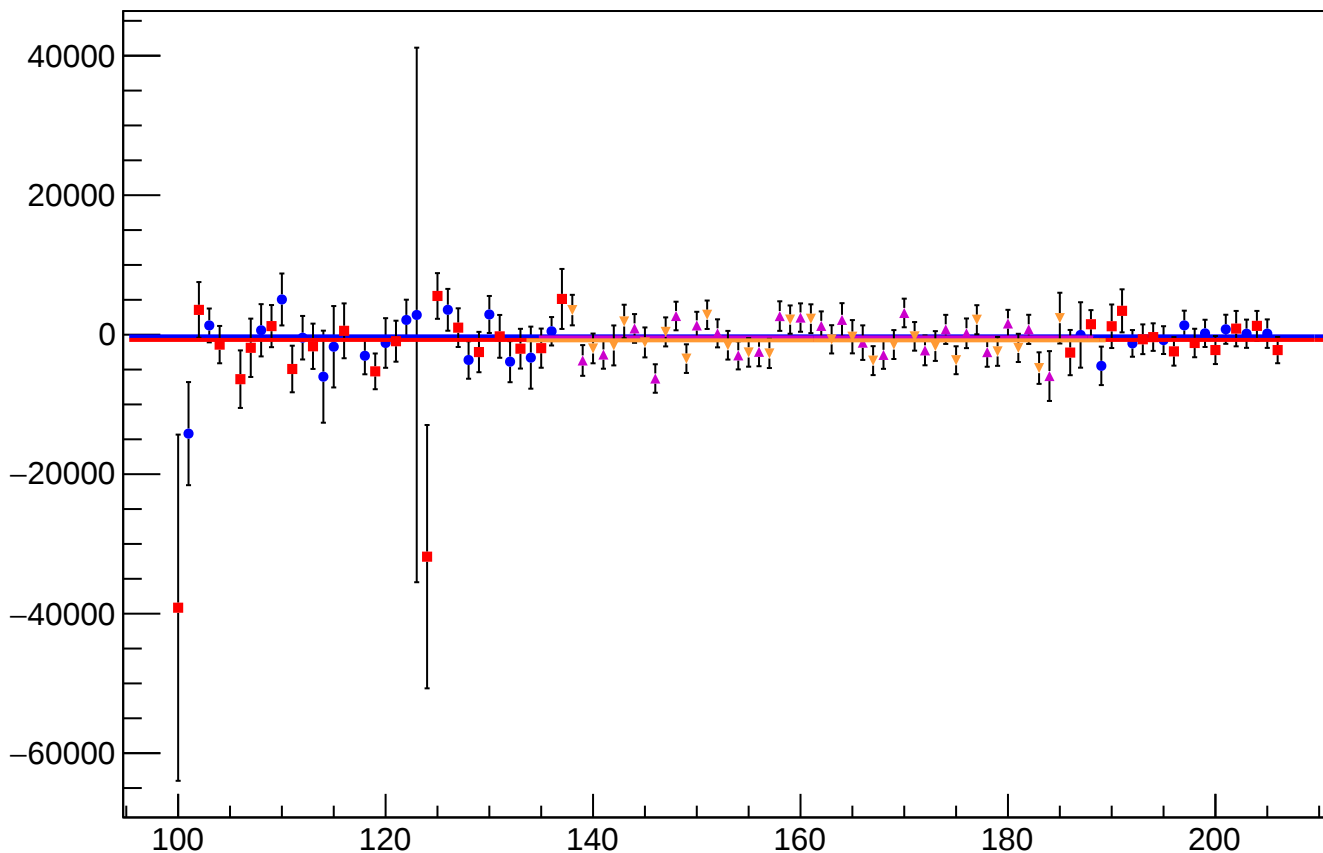
Right: 2130.434+/-0.290 χ^2/NDF : 1688354.1/56

In: 2031.291+/-0.263 χ^2/NDF :944246.8/48

Out: 2041.673+/-0.252 χ^2/NDF :1171576.2/55

All: 2036.698+/-0.182 χ^2/NDF : 2116633.2/100

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -239.905 $\pm$ 532.387 χ^2 /NDF: 19.1/25

Left Out: -808.436 $\pm$ 430.304 χ^2 /NDF:27.9/24

Right Out: -749.550 $\pm$ 493.525 χ^2 /NDF: 27.2/30

Left In: -398.797 $\pm$ 441.246 χ^2 /NDF:34.4/22

Left: -608.759 $\pm$ 308.066 χ^2 /NDF: 62.8/47

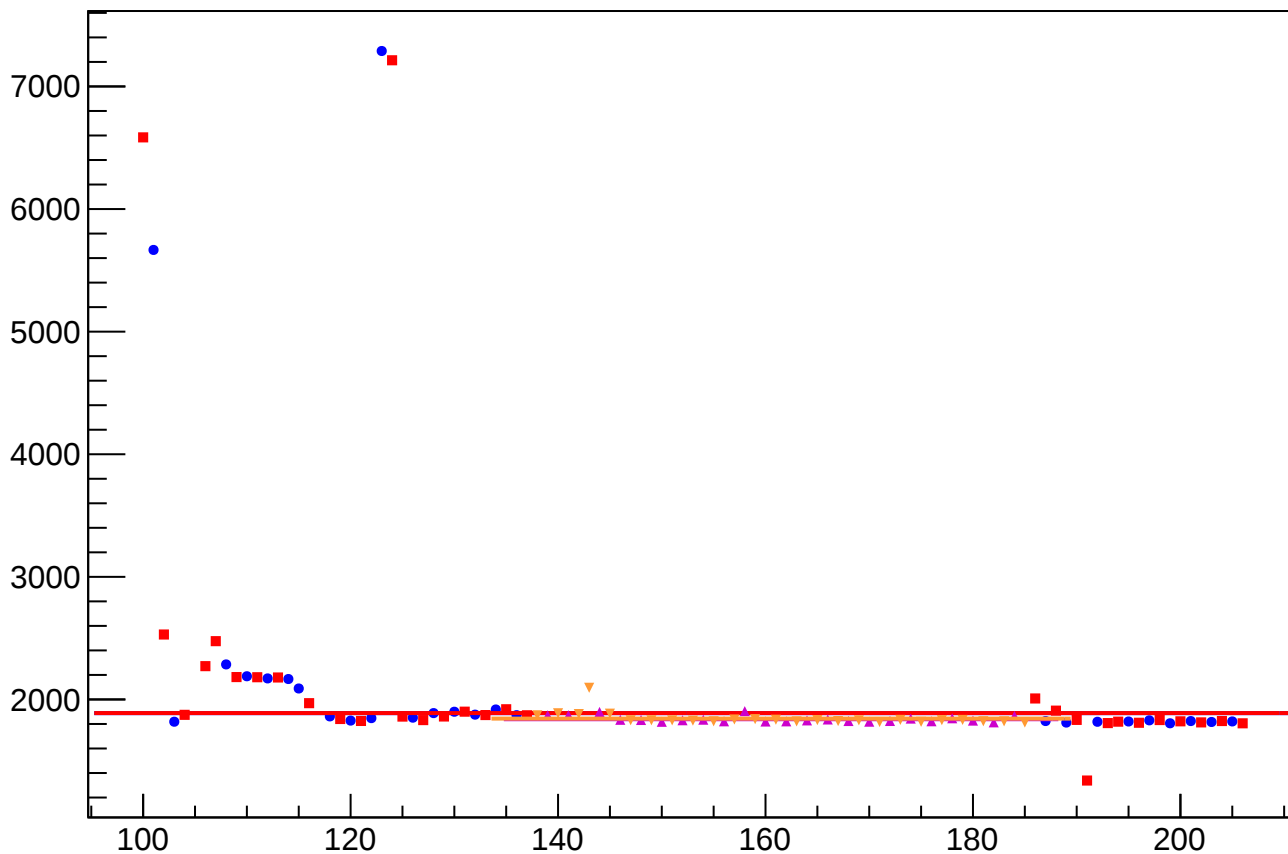
Right: -514.006 $\pm$ 361.935 χ^2 /NDF: 46.7/56

In: -334.096 $\pm$ 339.730 χ^2 /NDF:53.5/48

Out: -783.004 $\pm$ 324.334 χ^2 /NDF:55.1/55

All: -568.951 $\pm$ 234.593 χ^2 /NDF: 109.5/104

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1888.263+/-0.376 χ^2/NDF : 642403.8/25

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1888.911+/-0.349 χ^2/NDF : 480101.5/30

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

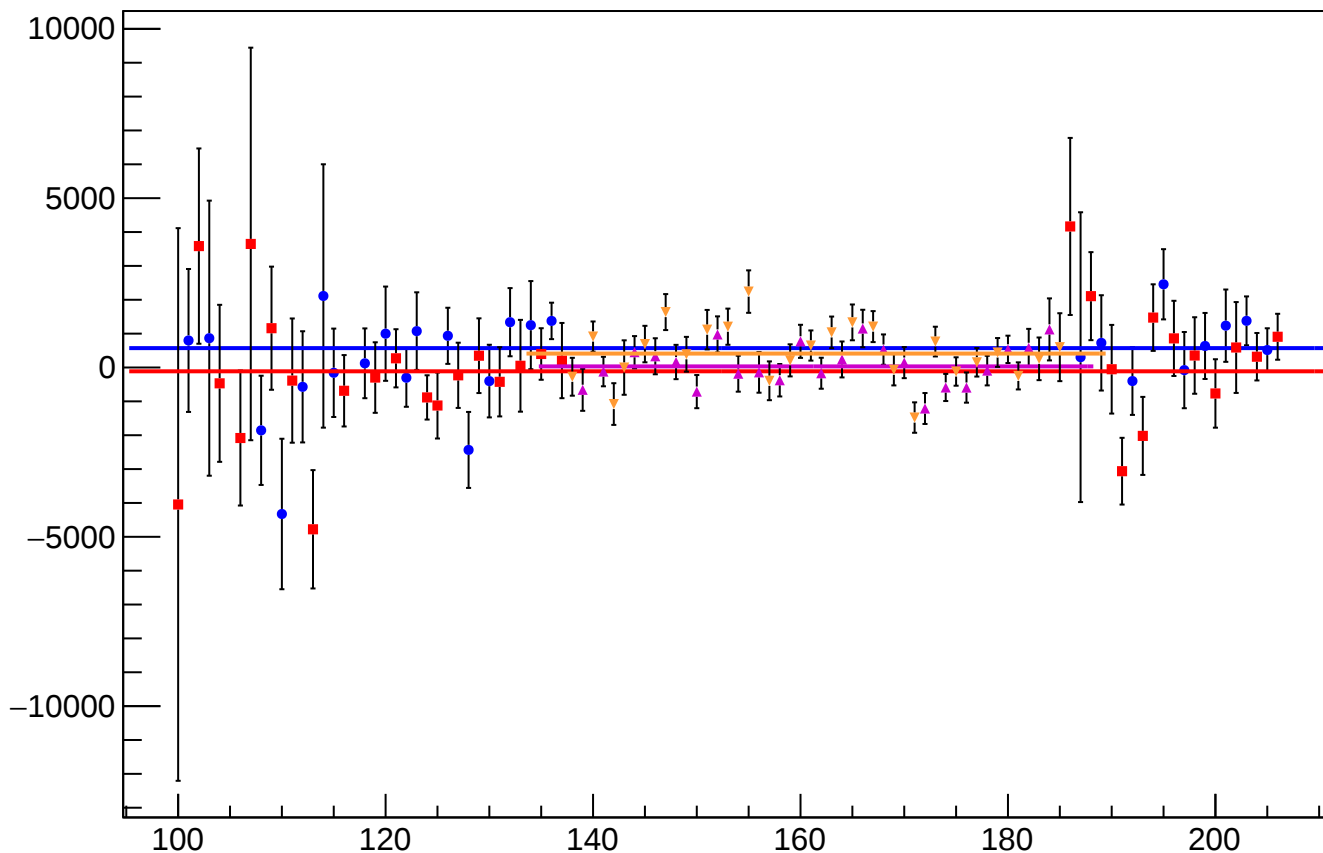
Right: 1888.611+/-0.256 χ^2/NDF : 1122507.0/56

In: 1858.830+/-0.240 χ^2/NDF : 659051.2/48

Out: 1863.252+/-0.229 χ^2/NDF : 516484.5/55

All: 1861.144+/-0.166 χ^2/NDF : 1175713.0/10

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 572.188 $\pm$ 207.726 χ^2 /NDF: 27.1/25

Left Out: 411.072 $\pm$ 100.456 χ^2 /NDF:61.2/24

Right Out: -112.515 $\pm$ 197.953 χ^2 /NDF: 38.9/30

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

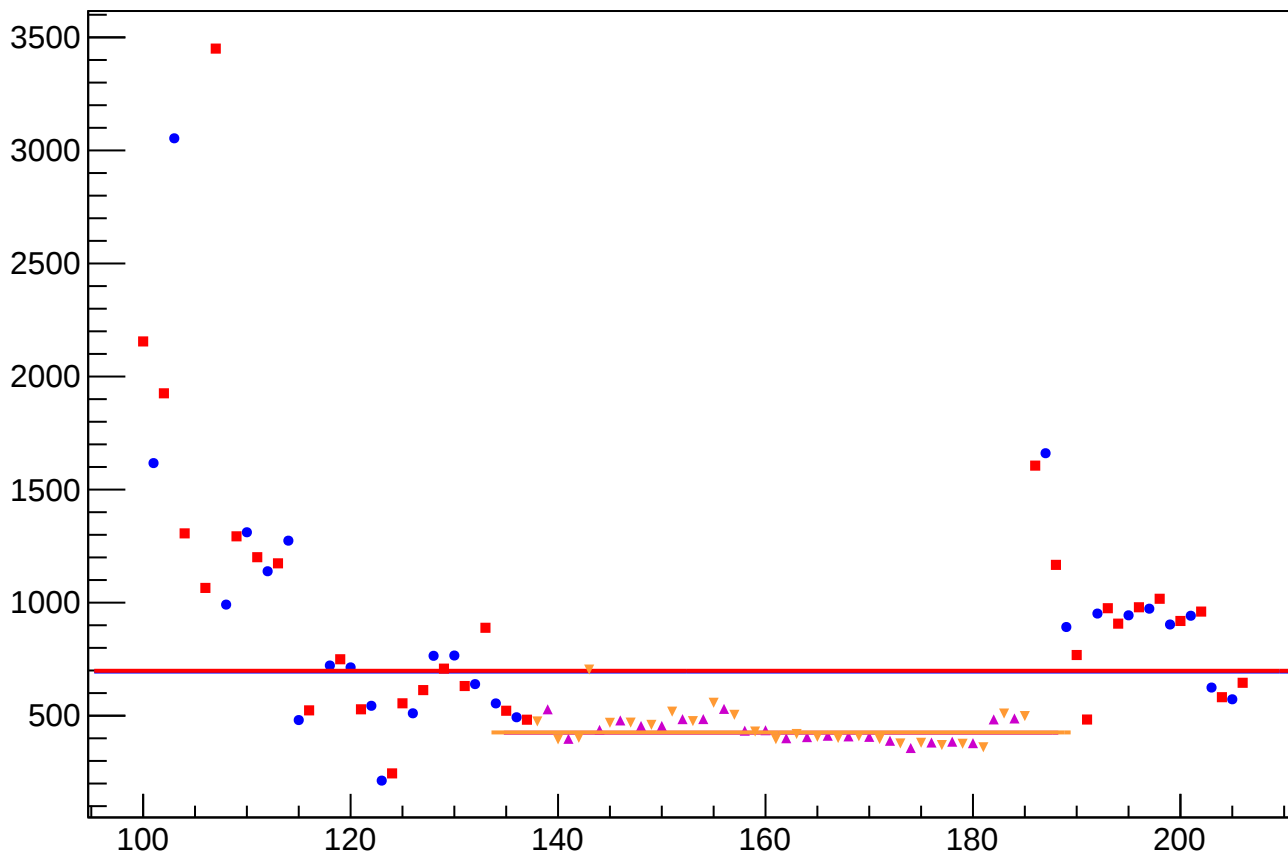
Right: 213.350 $\pm$ 143.304 χ^2 /NDF: 71.8/56

In: 137.979 $\pm$ 91.849 χ^2 /NDF:65.3/48

Out: 303.846 $\pm$ 89.581 χ^2 /NDF:105.7/55

All: 222.985 $\pm$ 64.130 χ^2 /NDF: 172.6/104

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 695.332 $\pm$ 0.147 χ^2 /NDF: 3167030.6/25

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 698.637 $\pm$ 0.140 χ^2 /NDF: 4320831.7/30

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

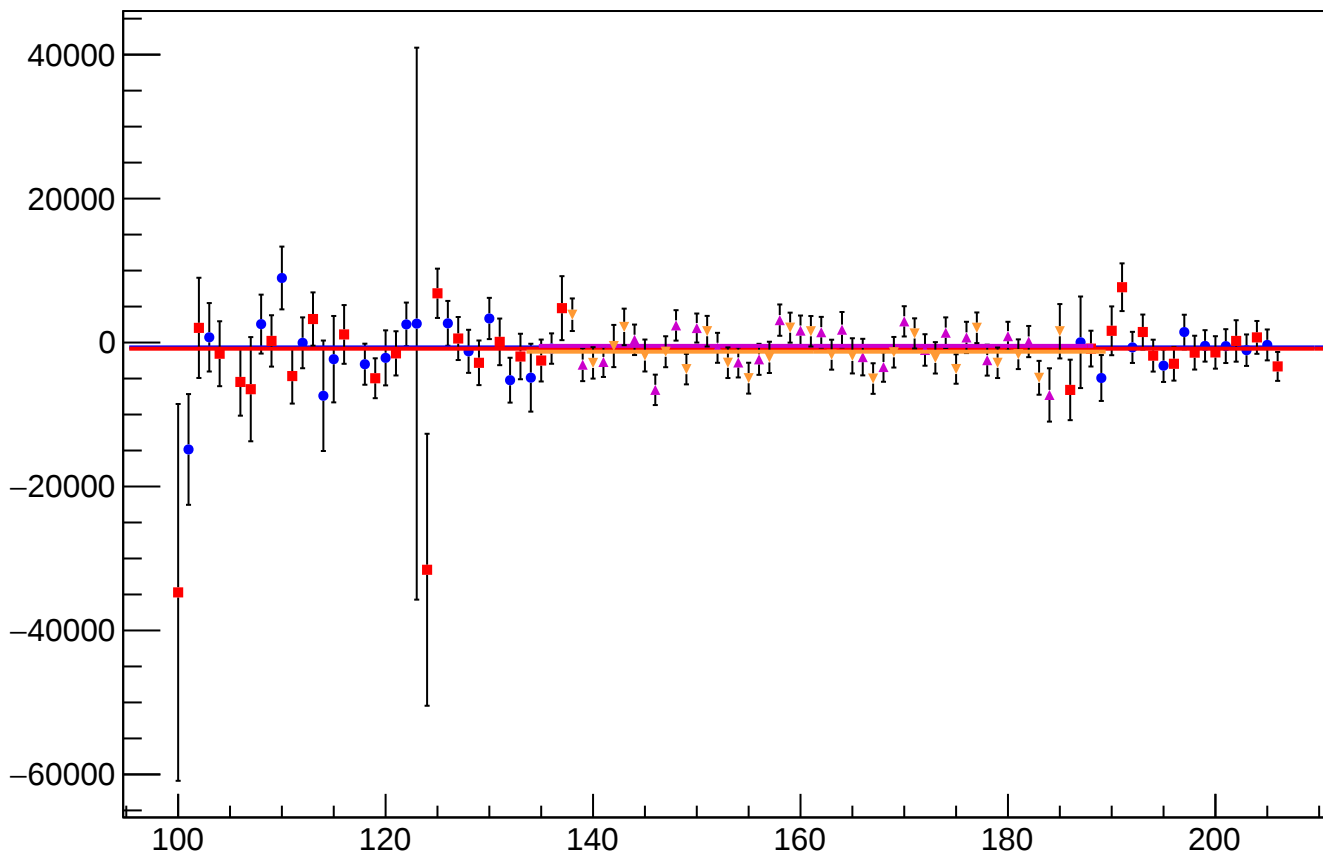
Right: 697.064 $\pm$ 0.101 χ^2 /NDF: 7488127.5/56

In: 477.562 $\pm$ 0.065 χ^2 /NDF: 6290922.4/48

Out: 481.855 $\pm$ 0.063 χ^2 /NDF: 8070178.7/55

All: 479.762 $\pm$ 0.045 χ^2 /NDF: 14363341.1/100

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -674.321+/-594.392 χ^2/NDF : 21.8/25

Left Out: -1267.885+/-443.219 χ^2/NDF : 30.8/24

Right Out: -852.763+/-558.051 χ^2/NDF : 31.8/30

Left In: -462.599+/-453.947 χ^2/NDF : 32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

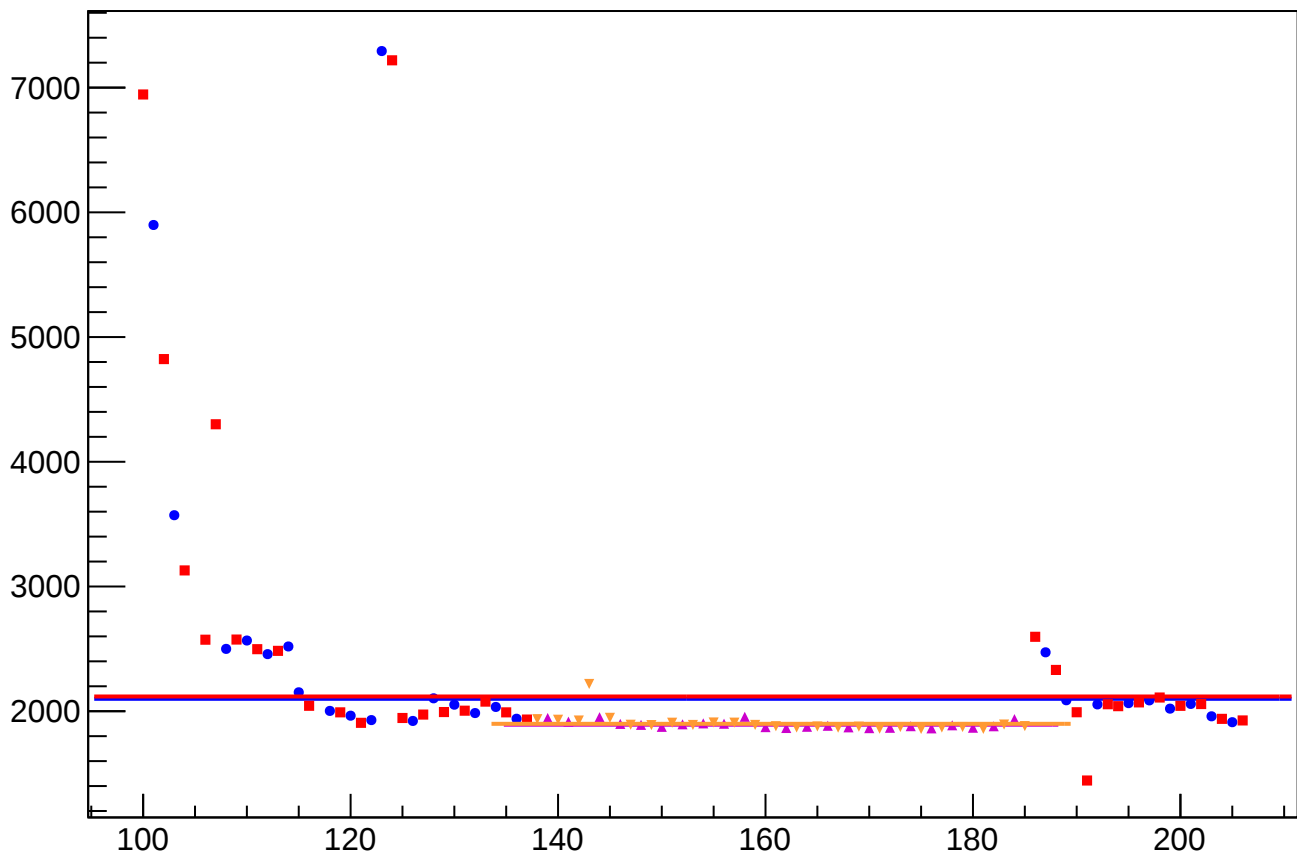
Right: -769.163+/-406.843 χ^2/NDF : 53.7/56

In: -540.596+/-360.768 χ^2/NDF : 54.5/48

Out: -1107.315+/-347.071 χ^2/NDF : 63.0/55

All: -834.918+/-250.118 χ^2/NDF : 118.7/104

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2099.571+/-0.420 χ^2/NDF : 852572.8/25

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2118.080+/-0.395 χ^2/NDF : 1090972.8/30

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

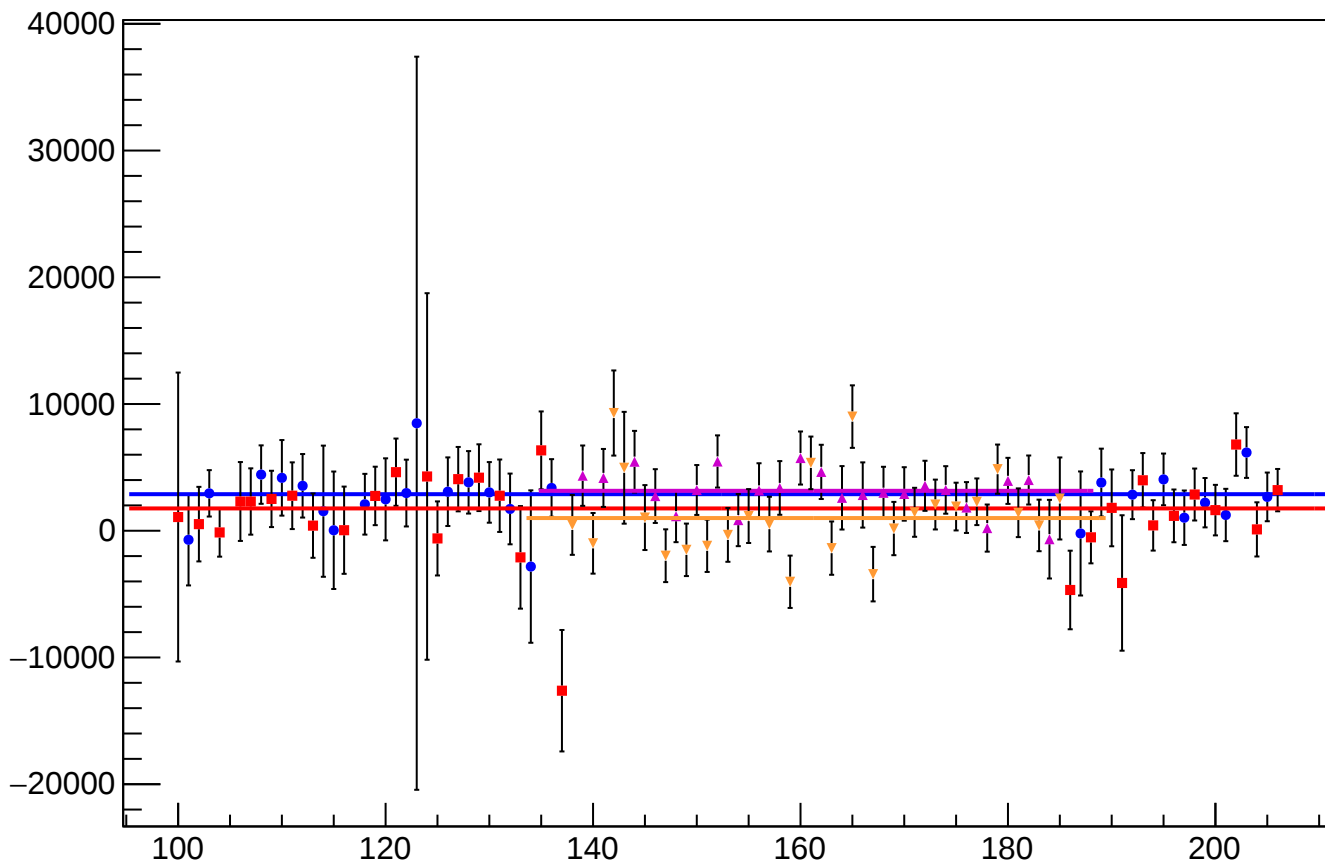
Right: 2109.408+/-0.288 χ^2/NDF : 1944576.4/56

In: 1968.273+/-0.255 χ^2/NDF : 1014500.5/48

Out: 1983.717+/-0.245 χ^2/NDF : 1318731.4/55

All: 1976.294+/-0.177 χ^2/NDF : 2335135.3/100

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2884.992 $\pm$ 494.832 χ^2 /NDF: 8.6/25

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1760.528 $\pm$ 459.596 χ^2 /NDF: 32.2/30

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

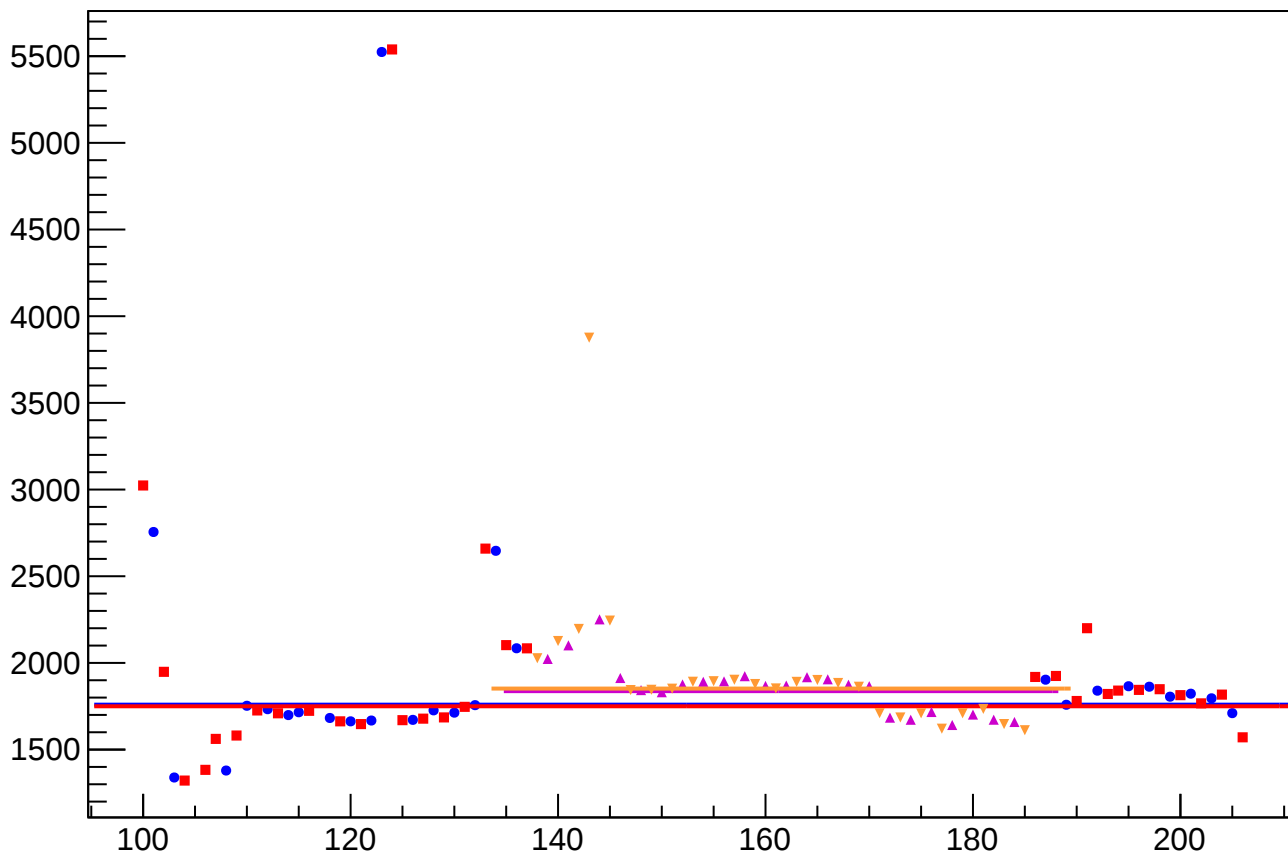
Right: 2281.303 $\pm$ 336.752 χ^2 /NDF: 43.6/56

In: 3032.890 $\pm$ 329.288 χ^2 /NDF:20.6/48

Out: 1360.251 $\pm$ 316.023 χ^2 /NDF:78.2/55

All: 2162.204 $\pm$ 228.007 χ^2 /NDF: 112.3/104

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1759.146 $\pm$ 0.350 χ^2 /NDF: 461550.5/25

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF:648954.2/24

Right Out: 1749.785 $\pm$ 0.325 χ^2 /NDF: 546654.9/30

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

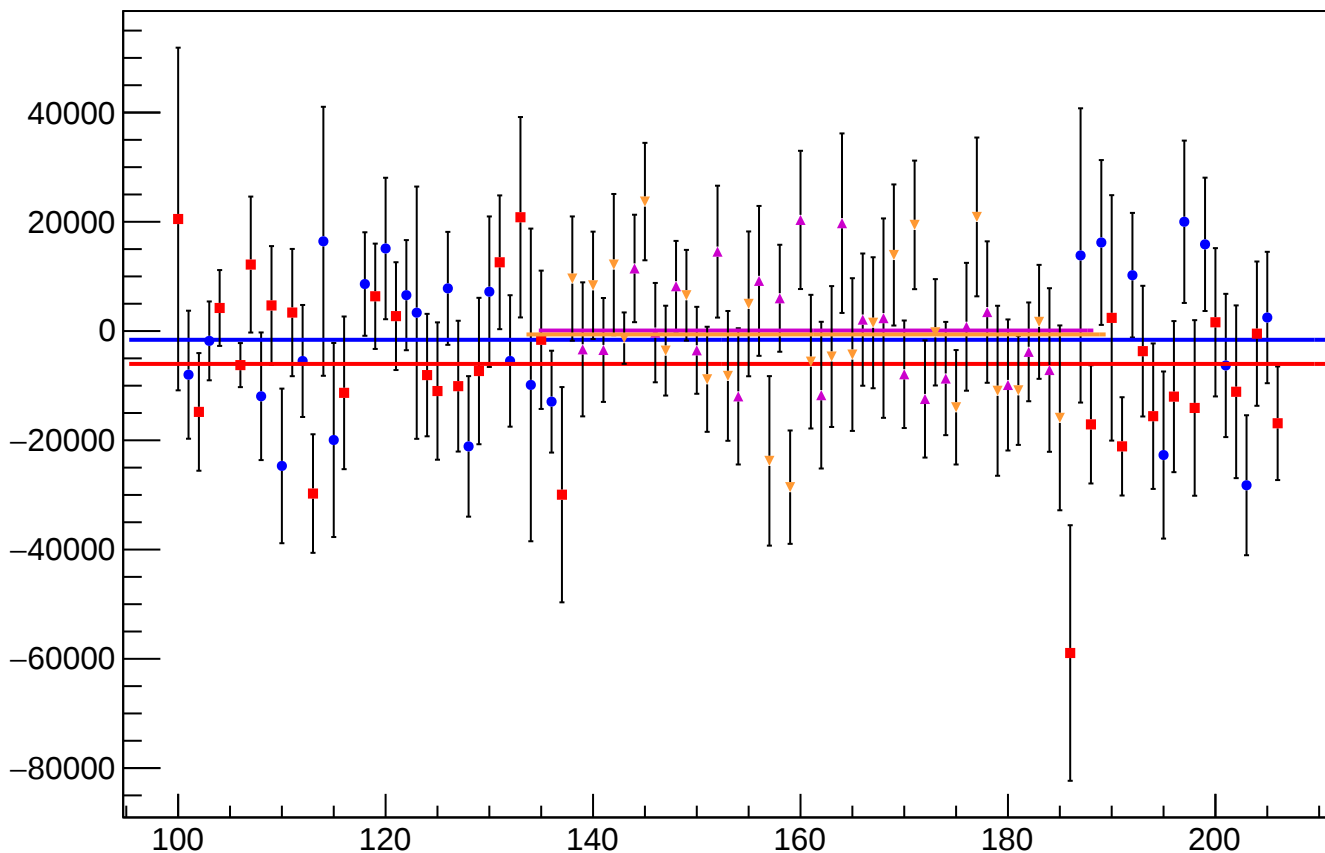
Right: 1754.120 $\pm$ 0.238 χ^2 /NDF: 1008589.8/56

In: 1802.608 $\pm$ 0.233 χ^2 /NDF:689755.6/48

Out: 1803.650 $\pm$ 0.223 χ^2 /NDF:1247720.1/55

All: 1803.150 $\pm$ 0.161 χ^2 /NDF: 1937486.0/100

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -1601.231+/-2424.894 χ^2/NDF : 27.6/25

Left Out: -619.372+/-2069.686 χ^2/NDF :30.1/24

Right Out: -6016.792+/-1942.747 χ^2/NDF : 32.8/30

Left In: 93.334+/-2293.826 χ^2/NDF :14.6/22

Left: -299.532+/-1536.638 χ^2/NDF : 44.8/47

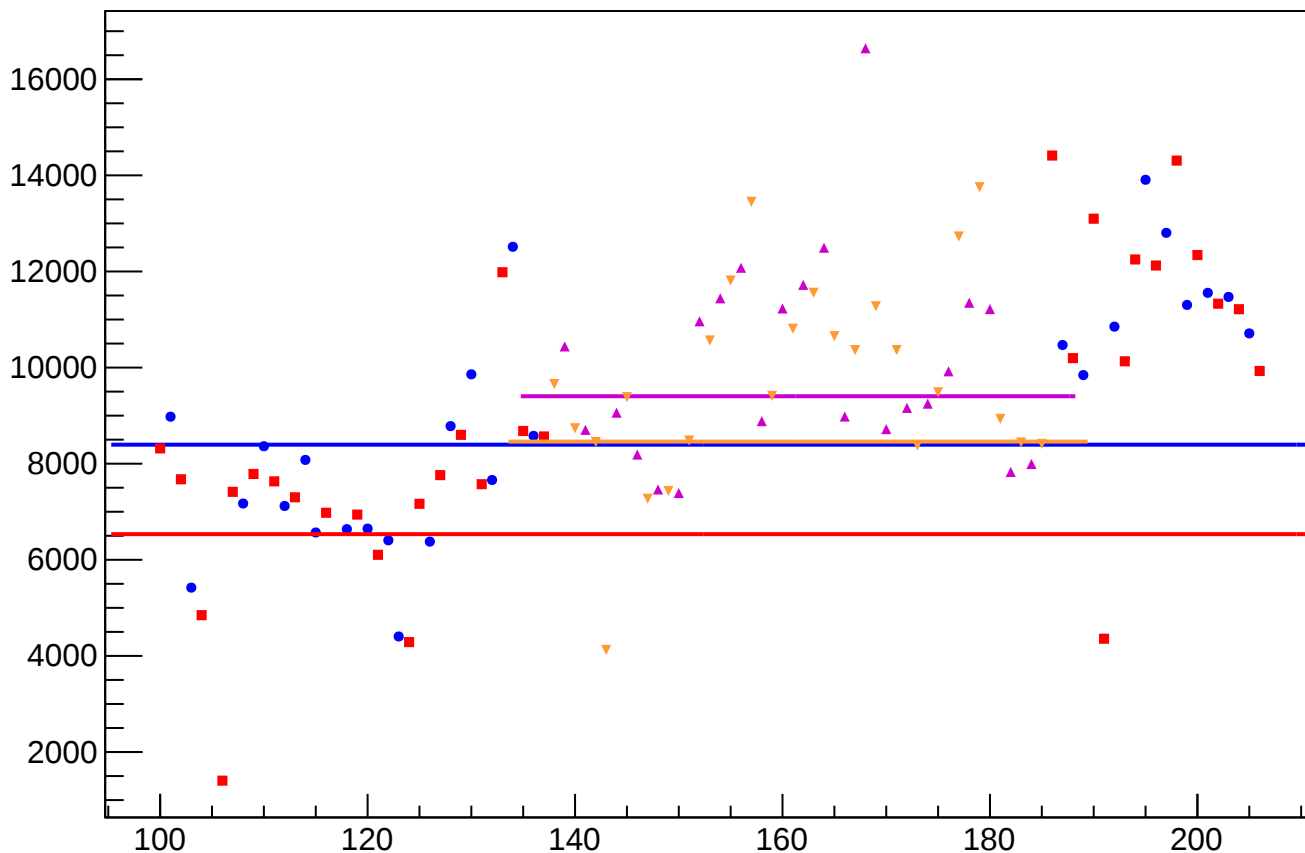
Right: -4290.580+/-1516.166 χ^2/NDF : 62.5/56

In: -706.917+/-1666.389 χ^2/NDF :42.5/48

Out: -3488.667+/-1416.481 χ^2/NDF :66.6/55

All: -2321.818+/-1079.257 χ^2/NDF : 110.7/10

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8395.628+/-1.715

χ^2/NDF : 1790234.1/25

Left Out: 8459.960+/-1.463

χ^2/NDF : 3087200.5/24

Right Out: 6533.635+/-1.374

χ^2/NDF : 6982637.3/30

Left In: 9403.481+/-1.622

χ^2/NDF : 1142646.9/22

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

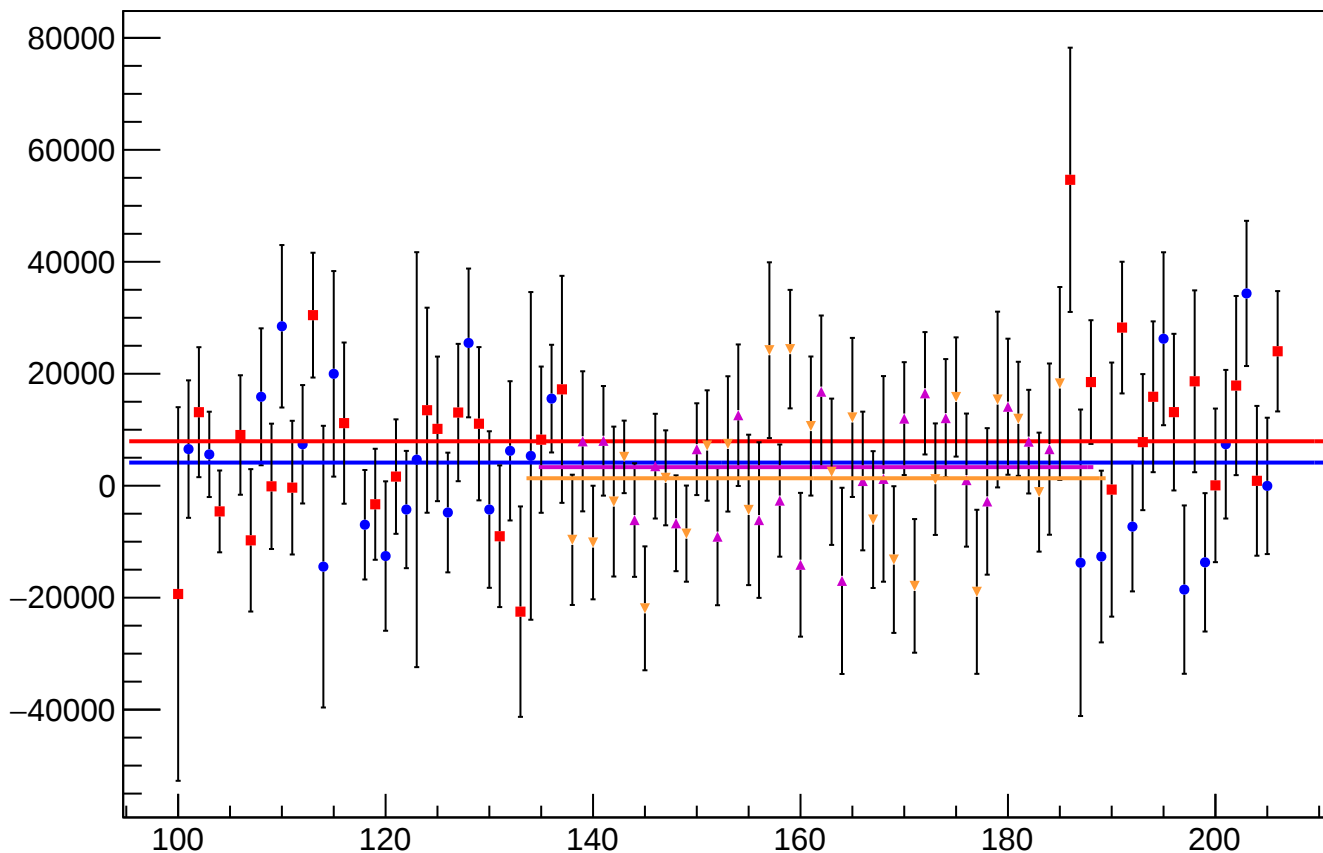
Right: 7261.560+/-1.072 χ^2/NDF : 9491098.2/56

In: 8927.527+/-1.178 χ^2/NDF : 3115216.6/48

Out: 7435.917+/-1.002 χ^2/NDF : 10990857.4/55

All: 8061.596+/-0.763 χ^2/NDF : 15036358.4/100

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 4132.484+/-2506.178 χ^2/NDF : 28.4/25

Left Out: 1332.828+/-2213.733 χ^2/NDF : 28.0/24

Right Out: 7936.906+/-2283.881 χ^2/NDF : 29.6/30

Left In: 3316.909+/-2344.543 χ^2/NDF : 13.7/22

Left: 2267.978+/-1609.604 χ^2/NDF : 42.2/47

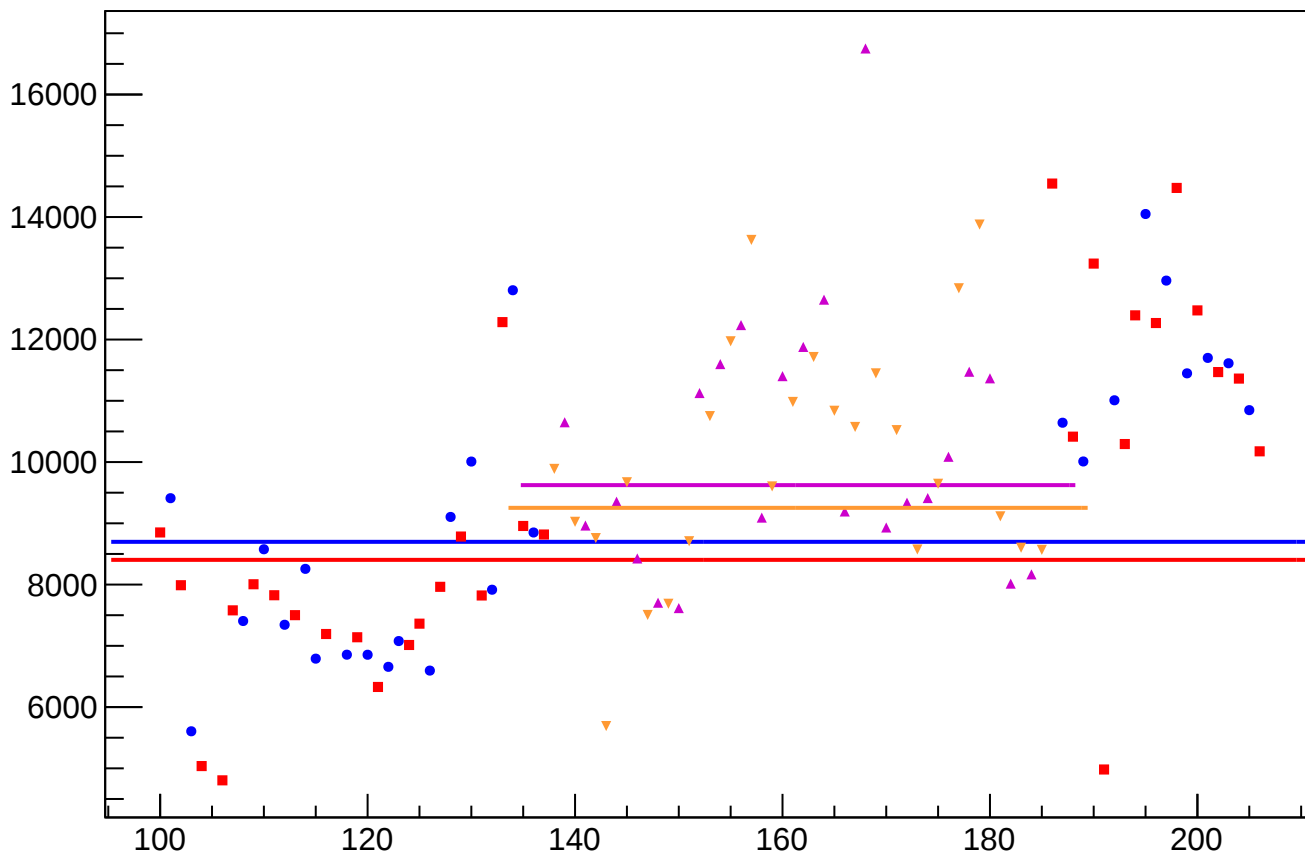
Right: 6210.872+/-1688.077 χ^2/NDF : 59.3/56

In: 3697.550+/-1712.134 χ^2/NDF : 42.2/48

Out: 4531.891+/-1589.566 χ^2/NDF : 62.0/55

All: 4145.651+/-1164.916 χ^2/NDF : 104.3/104

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 8697.836 $\pm$ 1.772 χ^2 /NDF: 1617007.0/25

Left Out: 9252.712 $\pm$ 1.565 χ^2 /NDF: 1597668.9/24

Right Out: 8403.499 $\pm$ 1.615 χ^2 /NDF: 2455421.7/30

Left In: 9623.485 $\pm$ 1.658 χ^2 /NDF: 1069924.0/22

Left: 9427.467 $\pm$ 1.138 χ^2 /NDF: 2694036.4/47

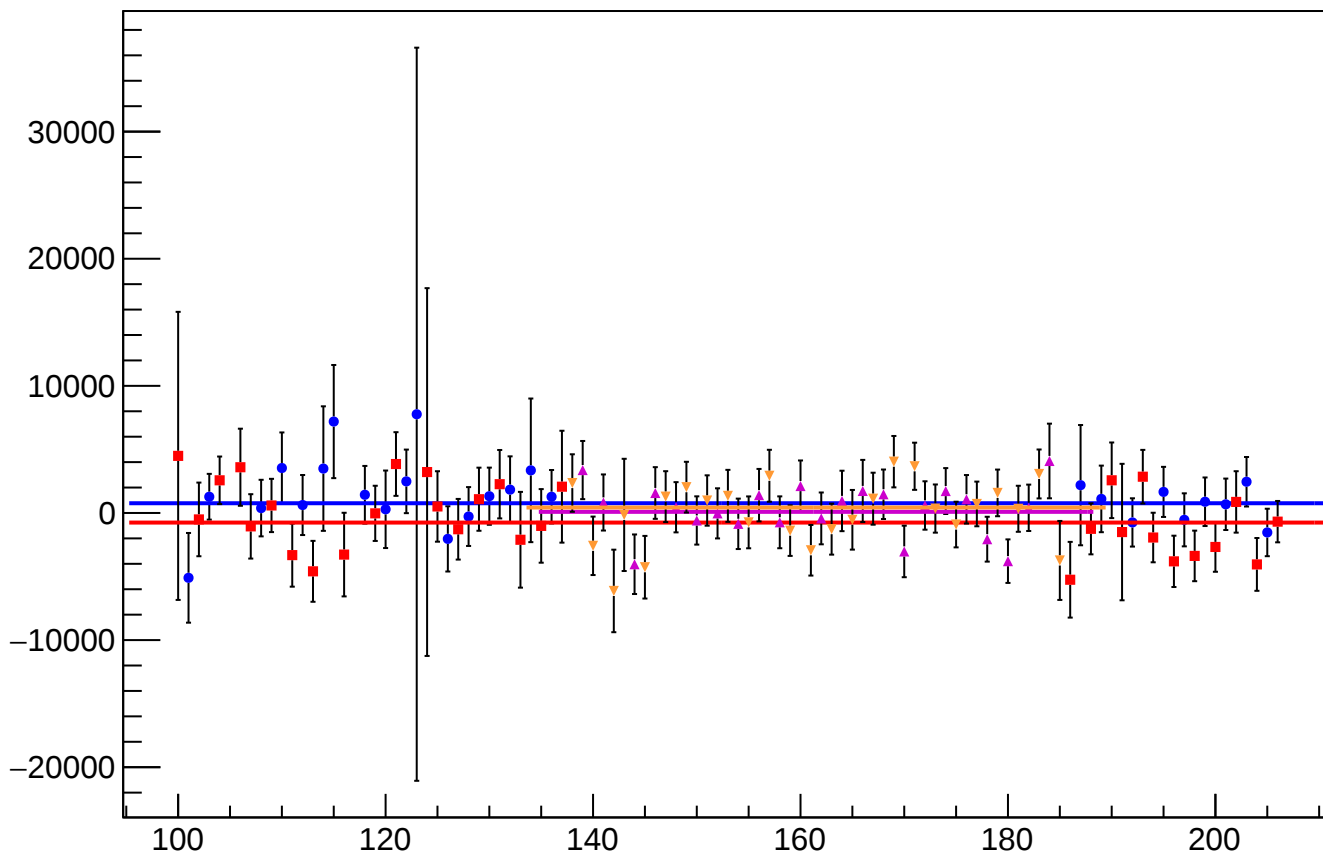
Right: 8537.024 $\pm$ 1.194 χ^2 /NDF: 4087501.2/56

In: 9191.462 $\pm$ 1.211 χ^2 /NDF: 2832432.5/48

Out: 8841.303 $\pm$ 1.124 χ^2 /NDF: 4195674.6/55

All: 9003.394 $\pm$ 0.824 χ^2 /NDF: 7073037.8/100

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 765.791 ± 475.838 $\chi^2/\text{NDF}: 12.4/25$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -755.150 ± 442.961 $\chi^2/\text{NDF}: 31.1/30$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

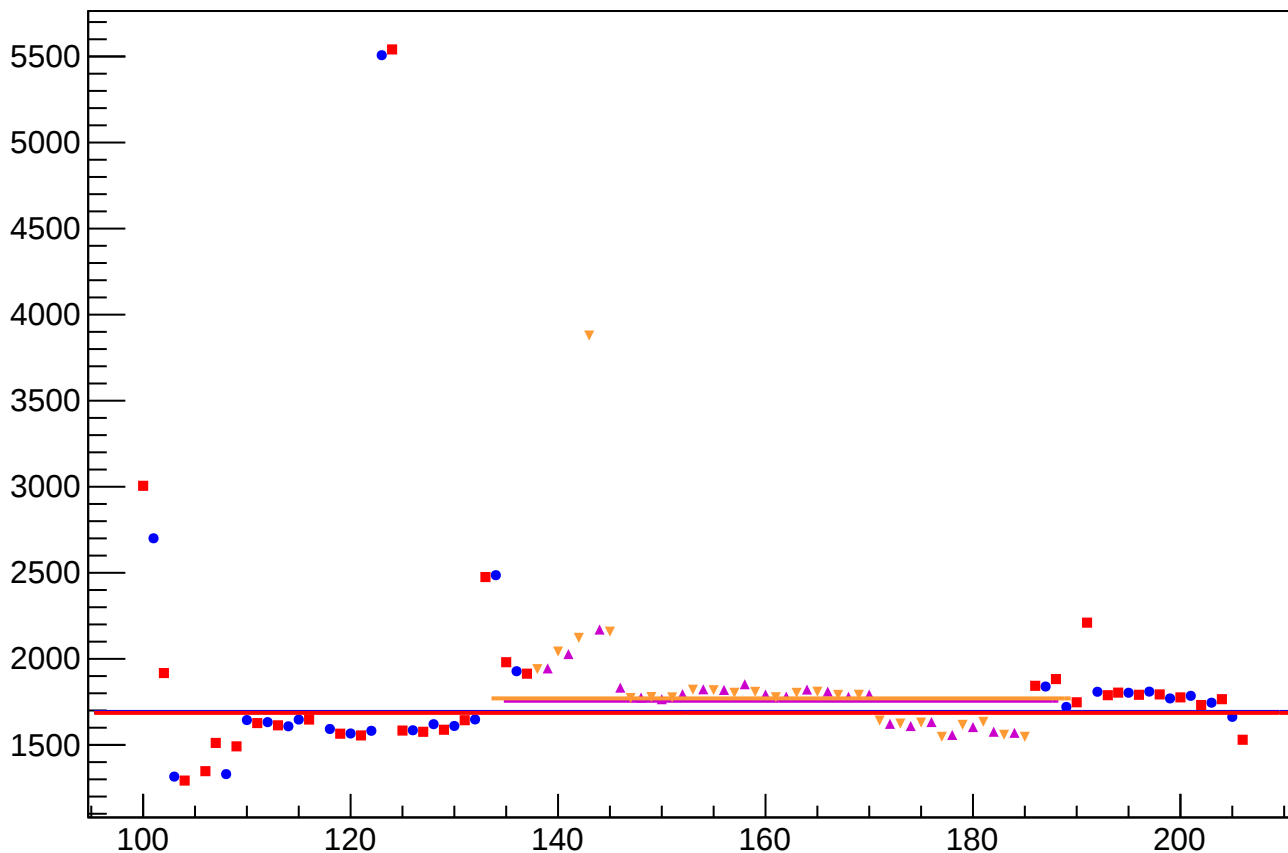
Right: -49.034 ± 324.221 $\chi^2/\text{NDF}: 49.0/56$

In: 386.572 ± 315.707 $\chi^2/\text{NDF}: 34.5/48$

Out: -126.242 ± 303.386 $\chi^2/\text{NDF}: 63.6/55$

All: 119.963 ± 218.753 $\chi^2/\text{NDF}: 99.5/104$

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1691.675 $\pm$ 0.336 χ^2 /NDF: 457662.1/25

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1686.289 $\pm$ 0.313 χ^2 /NDF: 555668.3/30

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

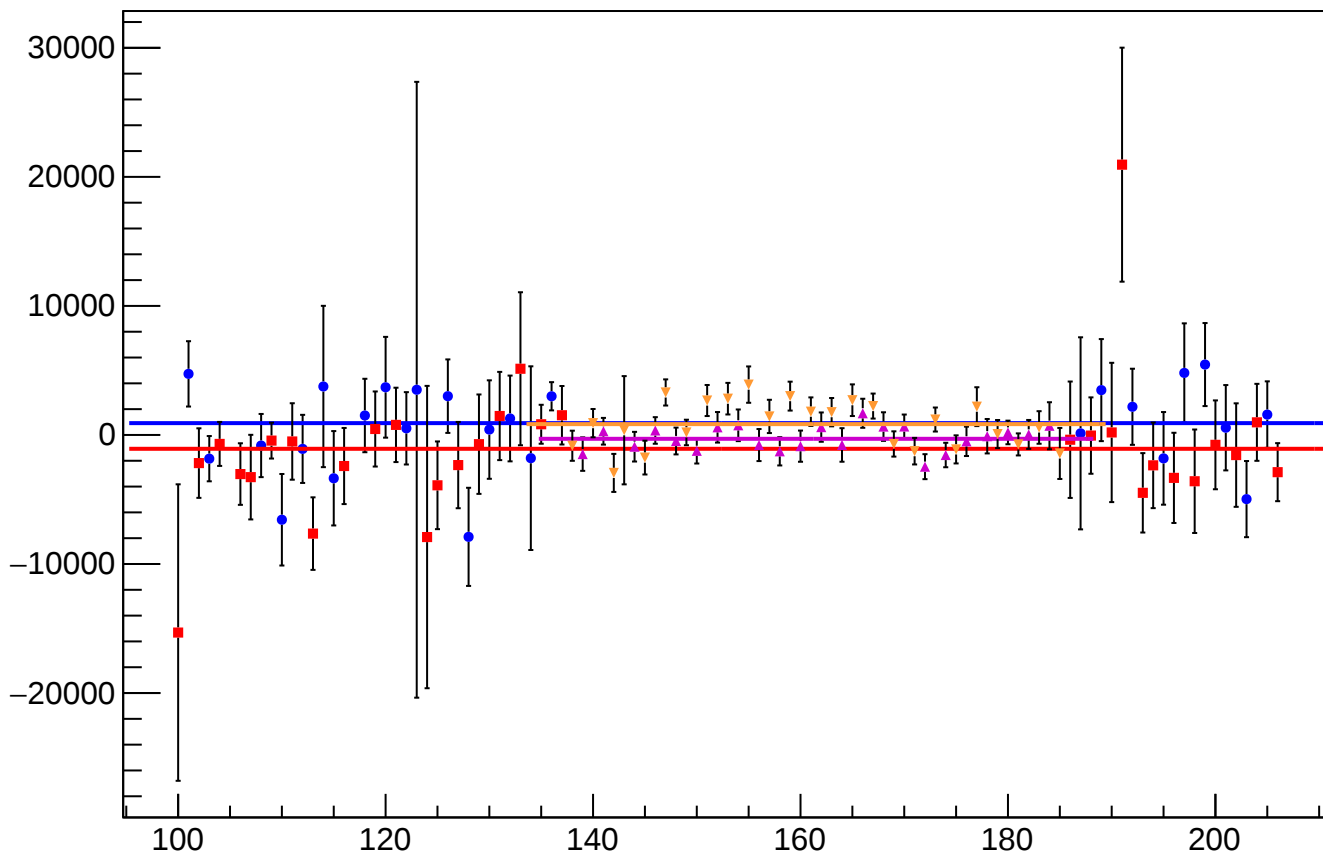
Right: 1688.790 $\pm$ 0.229 χ^2 /NDF: 1013467.7/56

In: 1728.033 $\pm$ 0.223 χ^2 /NDF: 701597.9/48

Out: 1730.935 $\pm$ 0.215 χ^2 /NDF: 1293474.7/55

All: 1729.542 $\pm$ 0.155 χ^2 /NDF: 1995160.5/100

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 916.844 $\pm$ 551.046 χ^2 /NDF: 30.4/25

Left Out: 839.344 $\pm$ 230.465 χ^2 /NDF:54.4/24

Right Out: -1072.707 $\pm$ 507.978 χ^2 /NDF: 24.7/30

Left In: -298.801 $\pm$ 231.400 χ^2 /NDF:18.3/22

Left: 272.574 $\pm$ 163.293 χ^2 /NDF: 84.9/47

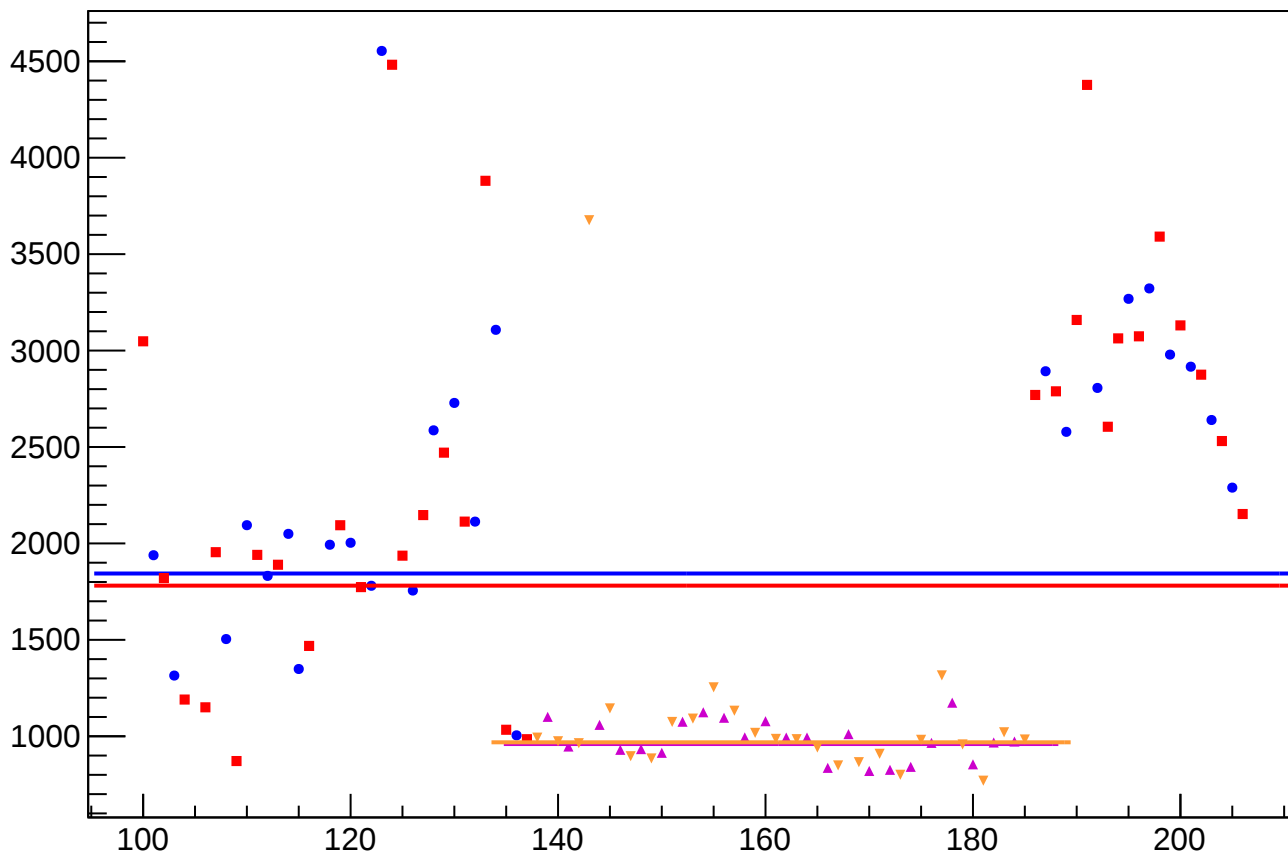
Right: -158.709 $\pm$ 373.494 χ^2 /NDF: 62.1/56

In: -116.570 $\pm$ 213.352 χ^2 /NDF:52.9/48

Out: 512.957 $\pm$ 209.875 χ^2 /NDF:90.8/55

All: 203.365 $\pm$ 149.618 χ^2 /NDF: 148.1/104

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1843.980+/-0.390 χ^2/NDF : 3345061.8/25

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1781.078+/-0.359 χ^2/NDF : 4908949.7/30

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

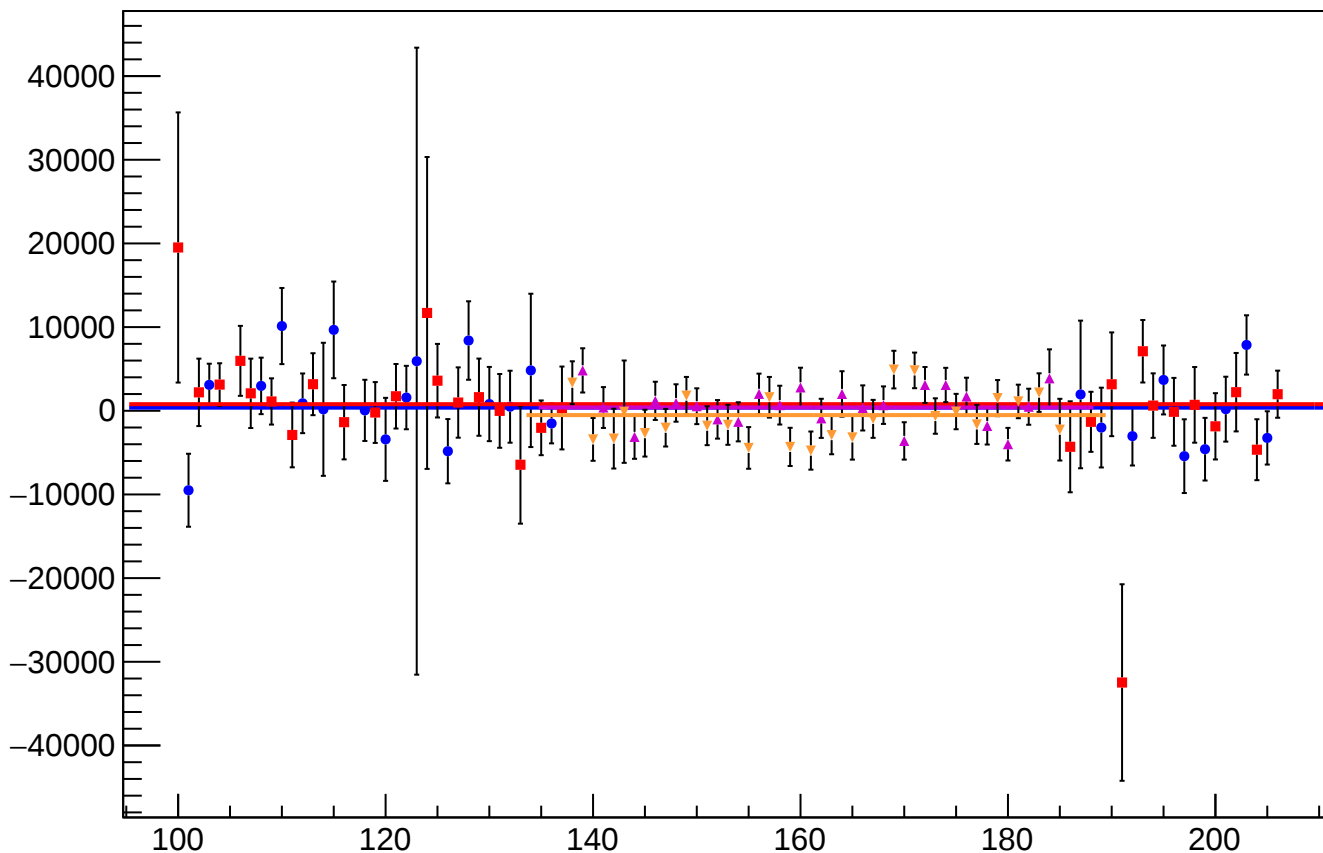
Right: 1809.975+/-0.264 χ^2/NDF : 8268099.5/56

In: 1092.347+/-0.151 χ^2/NDF : 8093485.1/48

Out: 1107.383+/-0.148 χ^2/NDF : 10544511.2/55

All: 1099.988+/-0.106 χ^2/NDF : 18643044.4/131

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 372.489+/-784.216 χ^2/NDF : 31.6/25

Left Out: -517.719+/-481.486 χ^2/NDF :34.0/24

Right Out: 789.496+/-731.756 χ^2/NDF : 23.5/30

Left In: 397.398+/-485.048 χ^2/NDF :21.8/22

Left: -63.533+/-341.714 χ^2/NDF : 57.7/47

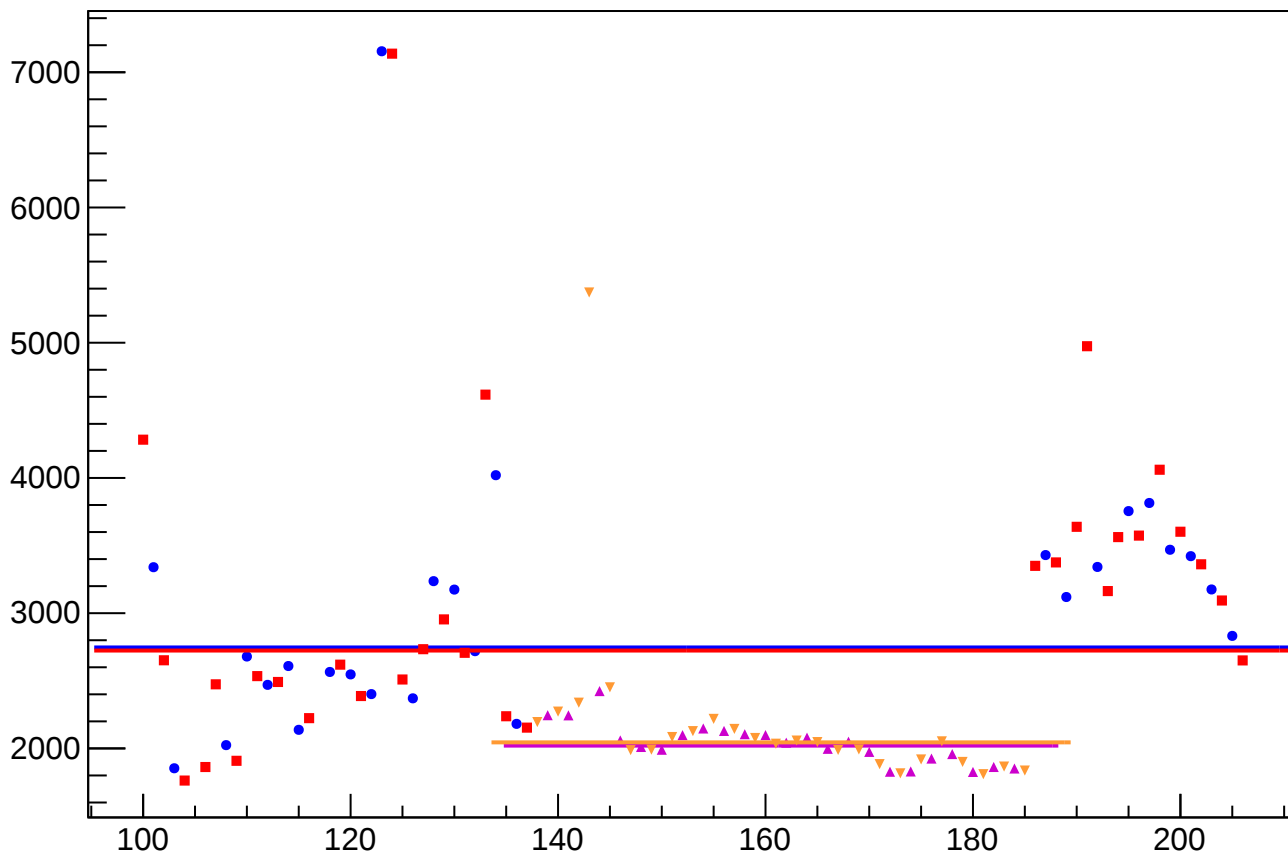
Right: 595.406+/-535.015 χ^2/NDF : 55.2/56

In: 390.506+/-412.518 χ^2/NDF :53.4/48

Out: -122.760+/-402.225 χ^2/NDF :59.8/55

All: 127.389+/-287.986 χ^2/NDF : 114.0/104

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2746.509 $\pm$ 0.555 χ^2 /NDF: 1161550.5/25

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2723.797 $\pm$ 0.517 χ^2 /NDF: 1713834.4/30

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

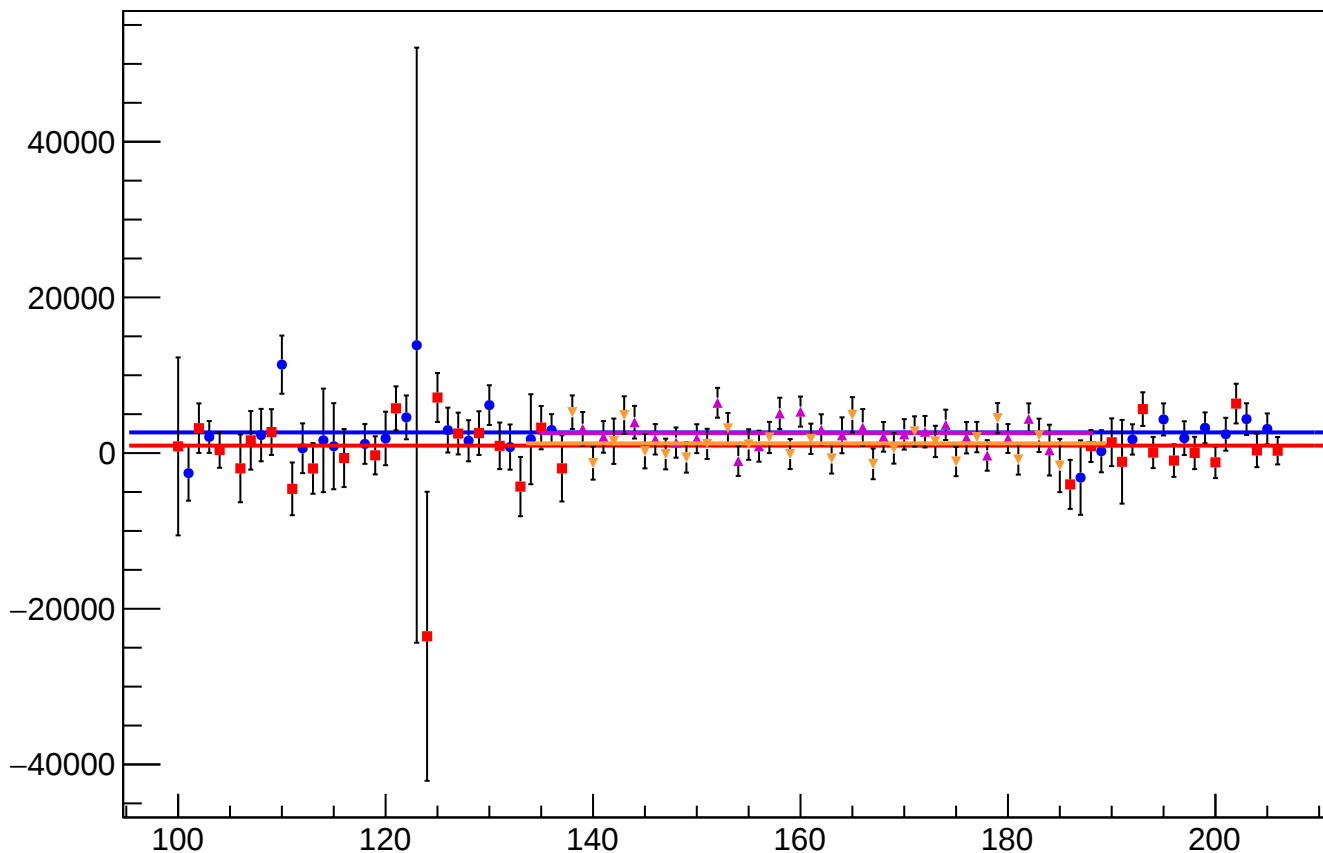
Right: 2734.368 $\pm$ 0.378 χ^2 /NDF: 2876281.7/56

In: 2221.607 $\pm$ 0.292 χ^2 /NDF: 2573845.7/48

Out: 2249.898 $\pm$ 0.284 χ^2 /NDF: 3704539.6/55

All: 2236.110 $\pm$ 0.204 χ^2 /NDF: 6283207.2/100

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2656.776 $\pm$ 522.171 χ^2 /NDF: 15.8/25

Left Out: 1249.917 $\pm$ 412.486 χ^2 /NDF:23.0/24

Right Out: 961.612 $\pm$ 490.314 χ^2 /NDF: 32.0/30

Left In: 2586.937 $\pm$ 421.510 χ^2 /NDF:17.5/22

Left: 1903.961 $\pm$ 294.810 χ^2 /NDF: 45.6/47

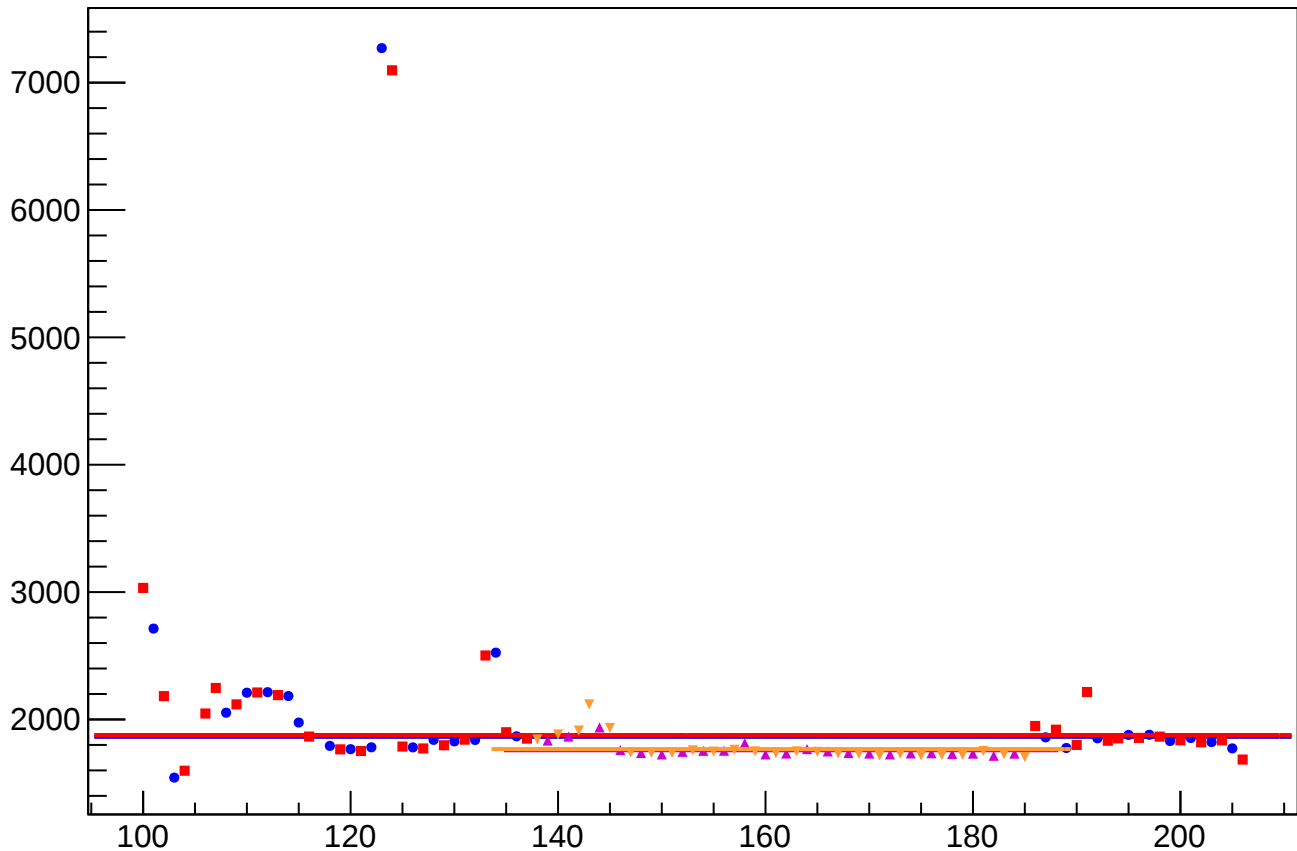
Right: 1755.911 $\pm$ 357.436 χ^2 /NDF: 53.5/56

In: 2614.491 $\pm$ 327.985 χ^2 /NDF:33.3/48

Out: 1130.435 $\pm$ 315.645 χ^2 /NDF:55.2/55

All: 1844.021 $\pm$ 227.432 χ^2 /NDF: 99.2/104

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1863.663+/-0.369 χ^2/NDF : 298677.7/25

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1877.825+/-0.346 χ^2/NDF : 409071.4/30

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

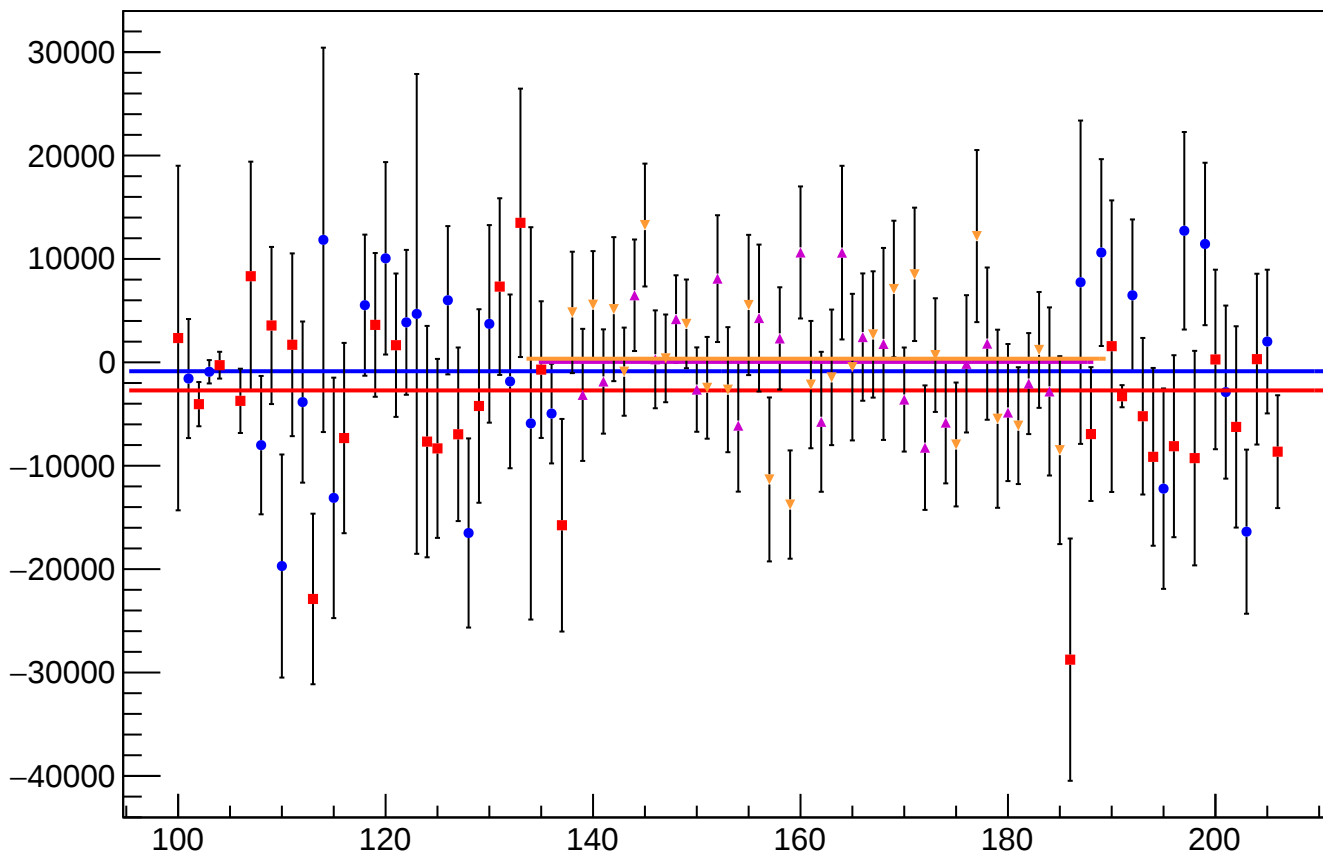
Right: 1871.194+/-0.253 χ^2/NDF : 708531.3/56

In: 1799.734+/-0.232 χ^2/NDF : 377996.7/48

Out: 1813.268+/-0.223 χ^2/NDF : 546069.6/55

All: 1806.762+/-0.161 χ^2/NDF : 925834.9/104

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -860.628 ± 930.980 $\chi^2/\text{NDF}: 26.4/25$

Left Out: 351.227 ± 1170.051 $\chi^2/\text{NDF}: 27.8/24$

Right Out: -2717.174 ± 680.160 $\chi^2/\text{NDF}: 27.8/30$

Left In: 40.618 ± 1207.491 $\chi^2/\text{NDF}: 16.0/22$

Left: 200.813 ± 840.276 $\chi^2/\text{NDF}: 43.9/47$

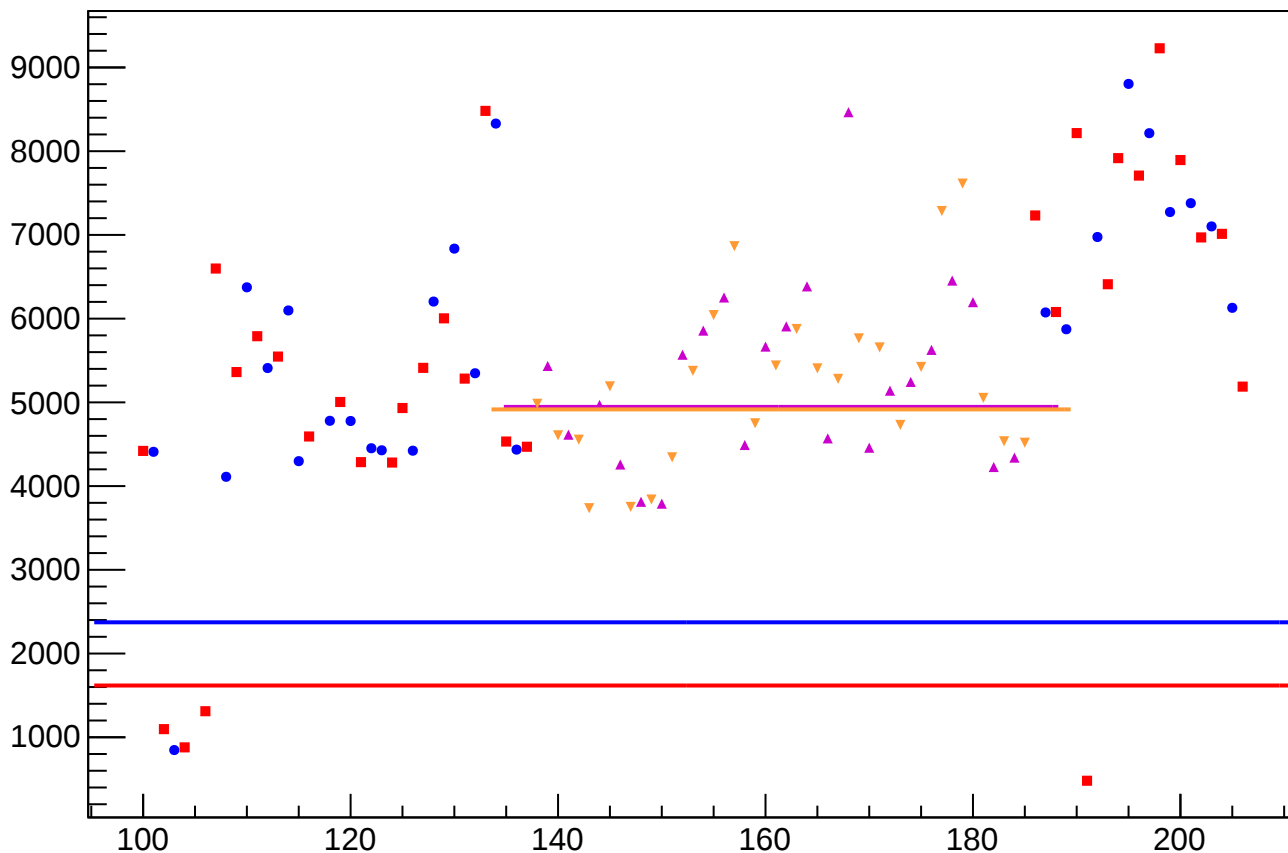
Right: -2071.086 ± 549.203 $\chi^2/\text{NDF}: 56.8/56$

In: -524.623 ± 737.285 $\chi^2/\text{NDF}: 42.8/48$

Out: -1942.187 ± 588.026 $\chi^2/\text{NDF}: 60.8/55$

All: -1391.054 ± 459.719 $\chi^2/\text{NDF}: 105.8/104$

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2372.983+/-0.658

χ^2/NDF : 12708549.3/25

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 1880.781+/-0.388

χ^2/NDF : 31280129.0/56

Right Out: 1618.065+/-0.481

χ^2/NDF : 17714161.7/30

In: 3332.194+/-0.521

χ^2/NDF : 19591602.8/48

Out: 2450.992+/-0.416

χ^2/NDF : 30775787.3/55

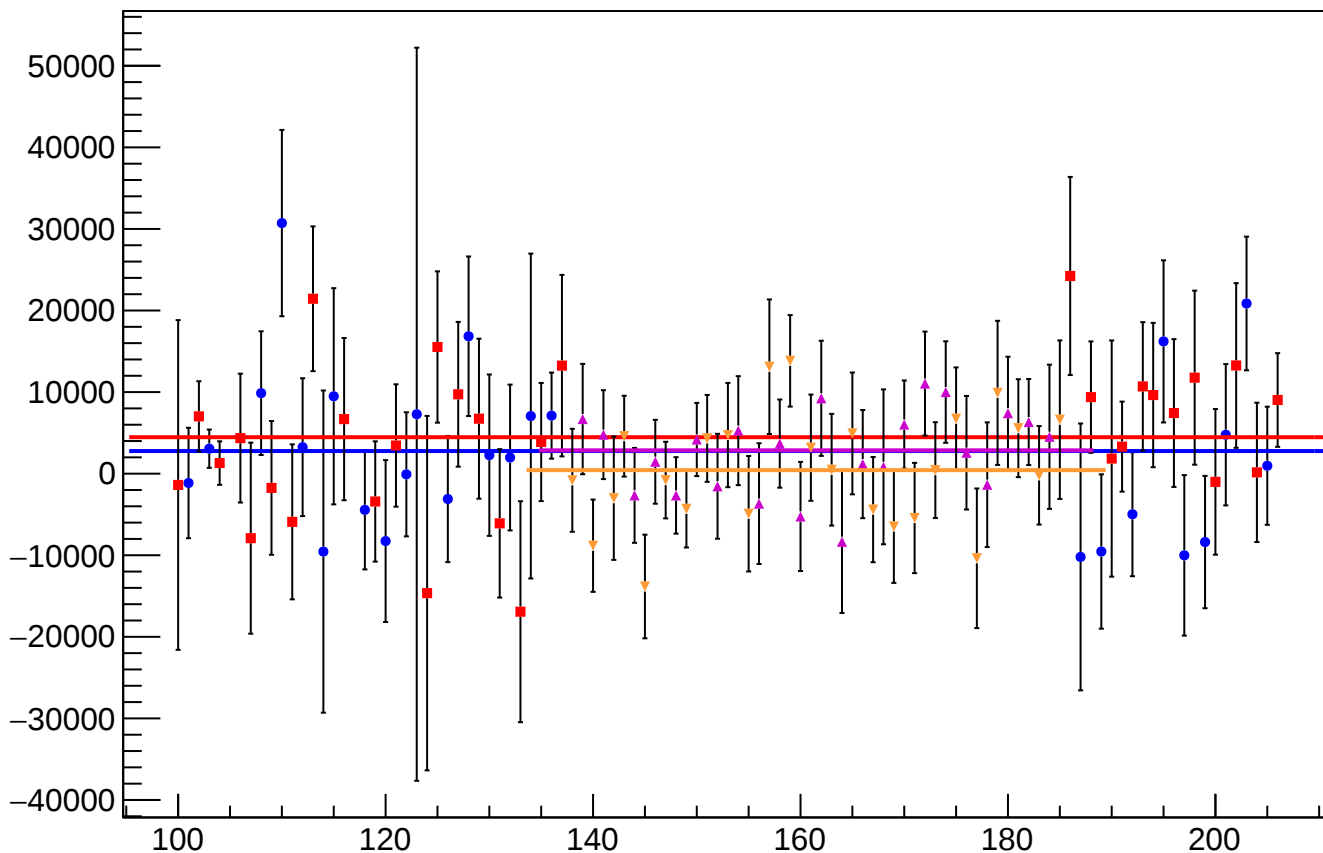
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2793.593+/-0.325

χ^2/NDF : 52113622.4/1

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2773.656 $\pm$ 1412.375 χ^2/NDF : 27.4/25

Left Out: 430.860 $\pm$ 1258.273 χ^2/NDF : 27.1/24

Right Out: 4470.674 $\pm$ 1325.918 χ^2/NDF : 23.5/30

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

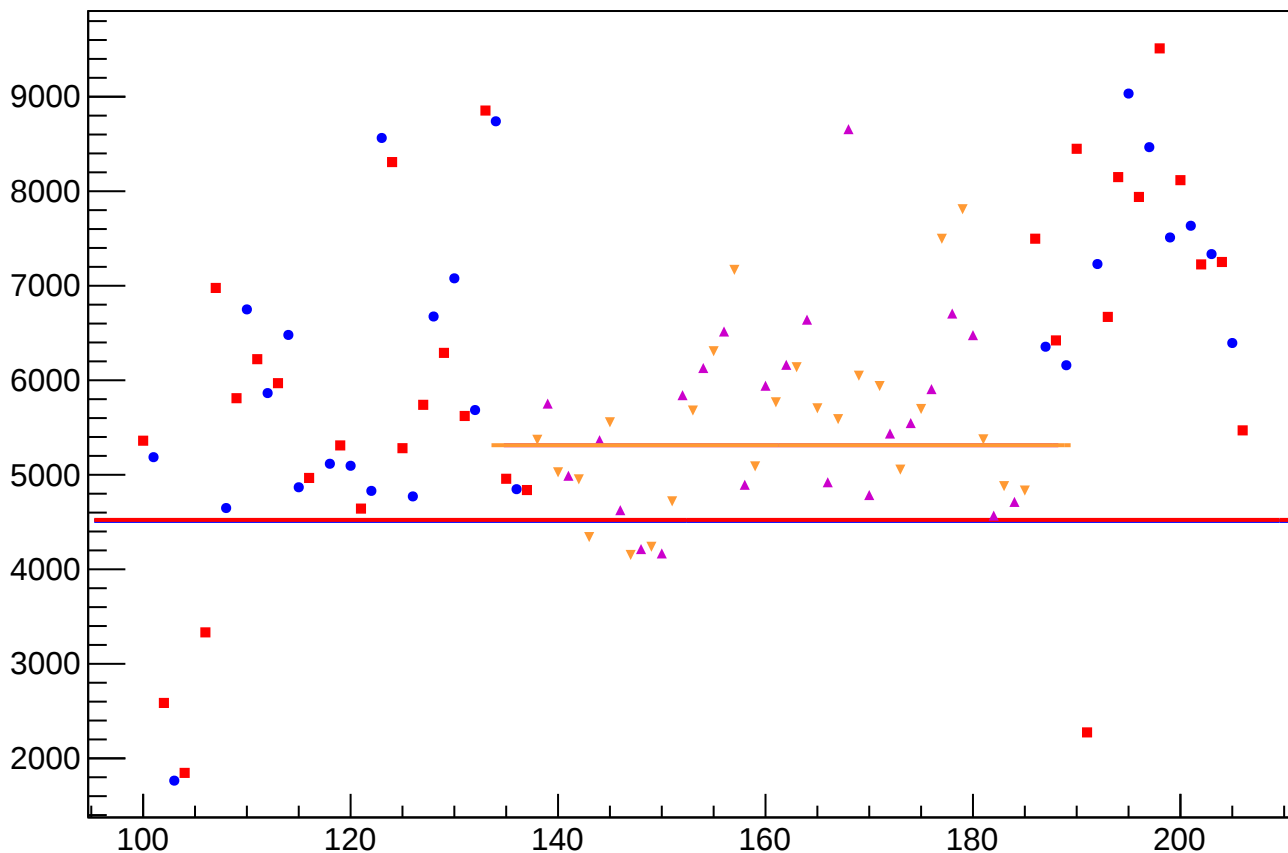
Right: 3675.692 $\pm$ 966.686 χ^2/NDF : 51.6/56

In: 2820.790 $\pm$ 953.435 χ^2/NDF : 40.2/48

Out: 2345.092 $\pm$ 912.711 χ^2/NDF : 55.5/55

All: 2572.565 $\pm$ 659.311 χ^2/NDF : 95.9/104

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4512.121+/-0.999 χ^2/NDF : 5308869.1/25

Left Out: 5313.008+/-0.890 χ^2/NDF : 894369.8/24

Right Out: 4522.766+/-0.933 χ^2/NDF : 5869727.2/30

Left In: 5312.861+/-0.914 χ^2/NDF : 957400.7/22

Left: 5312.937+/-0.637 χ^2/NDF : 1851770.5/47

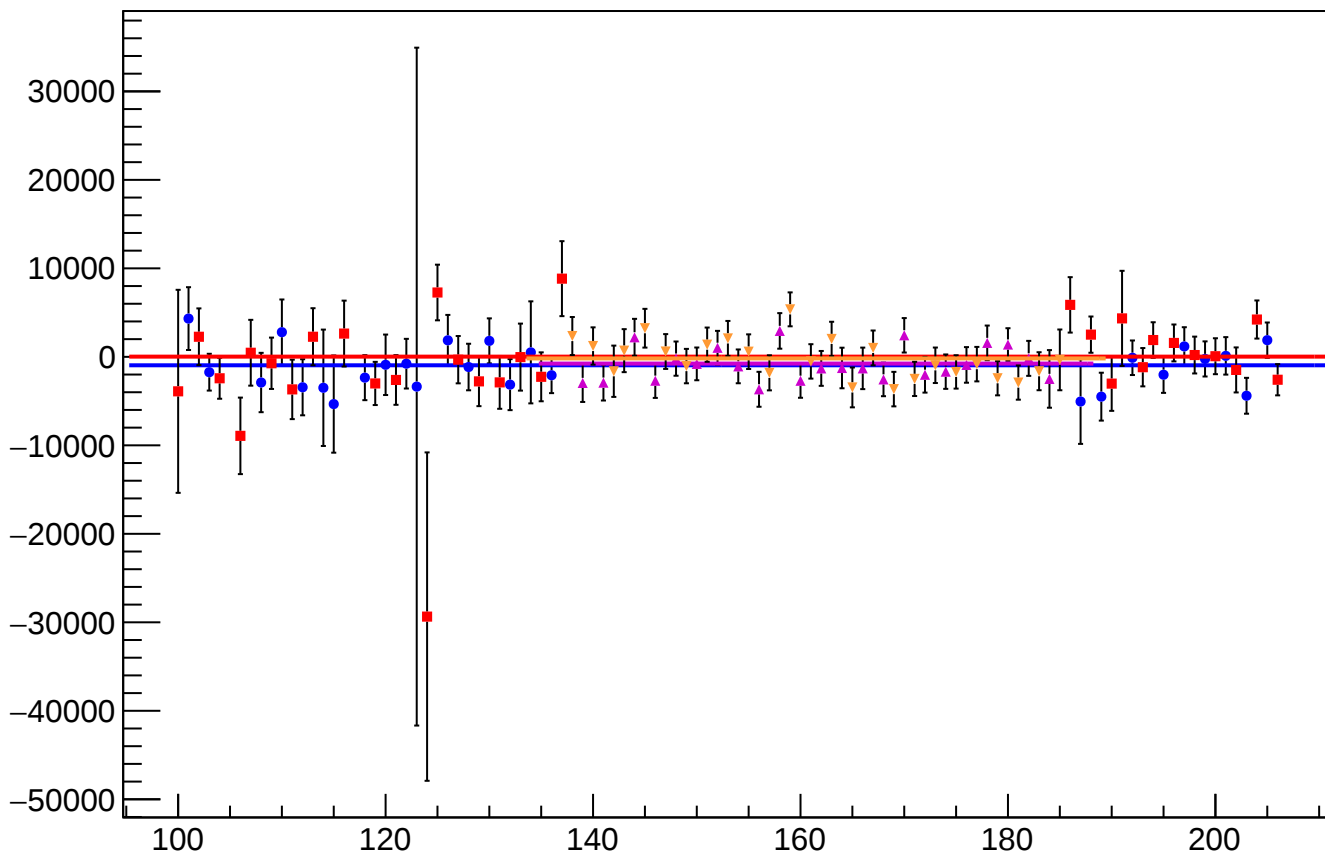
Right: 4517.803+/-0.682 χ^2/NDF : 11178656.9/56

In: 4947.962+/-0.674 χ^2/NDF : 6616173.7/48

Out: 4936.764+/-0.644 χ^2/NDF : 7139683.1/55

All: 4942.107+/-0.466 χ^2/NDF : 13756001.1/101

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -954.481 ± 521.519 $\chi^2/\text{NDF}: 17.7/25$

Left Out: -179.794 ± 410.976 $\chi^2/\text{NDF}: 29.3/24$

Right Out: 24.330 ± 490.001 $\chi^2/\text{NDF}: 40.2/30$

Left In: -759.753 ± 419.905 $\chi^2/\text{NDF}: 20.3/22$

Left: -463.542 ± 293.710 $\chi^2/\text{NDF}: 50.5/47$

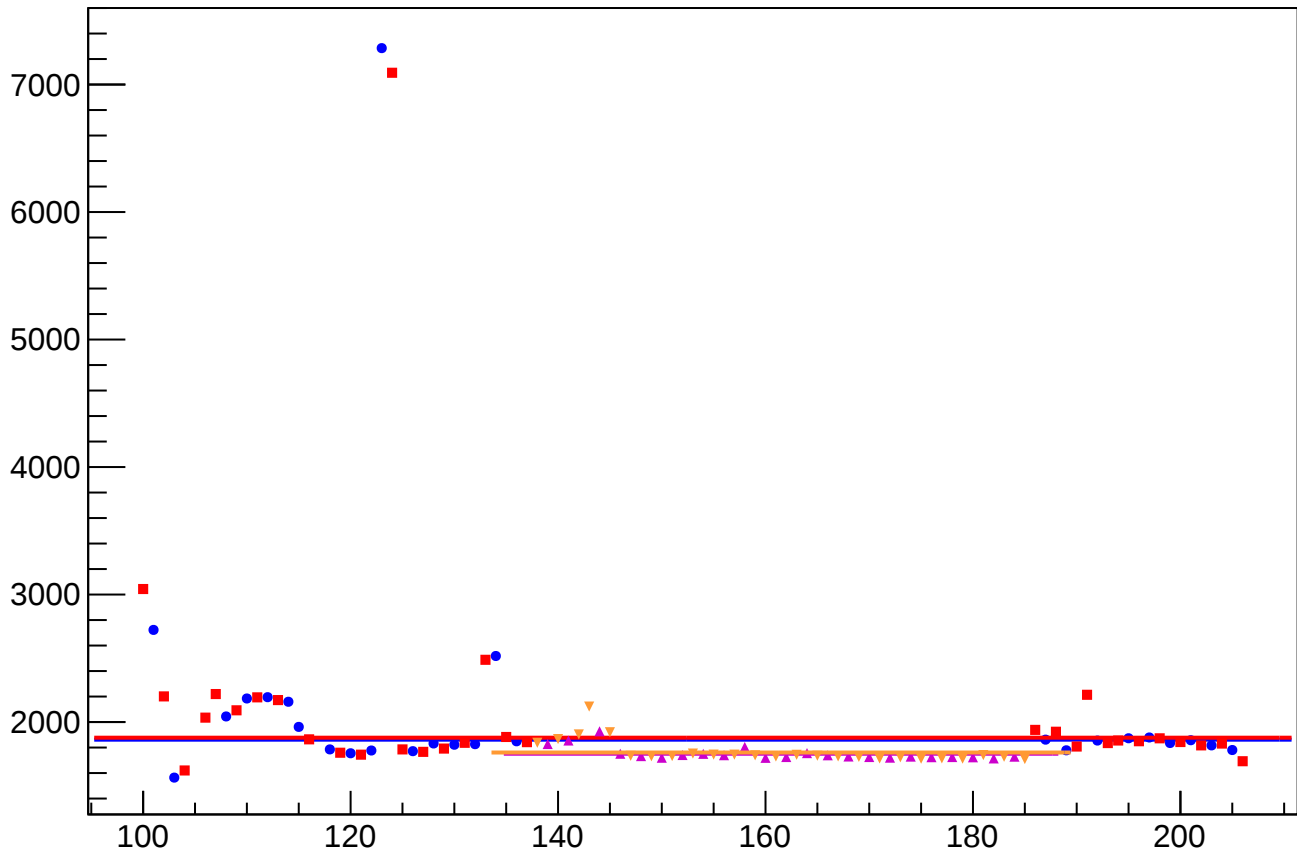
Right: -434.606 ± 357.106 $\chi^2/\text{NDF}: 59.7/56$

In: -836.341 ± 327.066 $\chi^2/\text{NDF}: 38.1/48$

Out: -95.499 ± 314.884 $\chi^2/\text{NDF}: 69.5/55$

All: -451.866 ± 226.841 $\chi^2/\text{NDF}: 110.2/104$

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1861.763 $\pm$ 0.369 χ^2 /NDF: 288230.9/25

Left Out: 1761.091 $\pm$ 0.291 χ^2 /NDF: 77468.5/24

Right Out: 1877.315 $\pm$ 0.346 χ^2 /NDF: 394358.3/30

Left In: 1751.418 $\pm$ 0.297 χ^2 /NDF: 28578.7/22

Left: 1756.358 $\pm$ 0.208 χ^2 /NDF: 106589.3/47

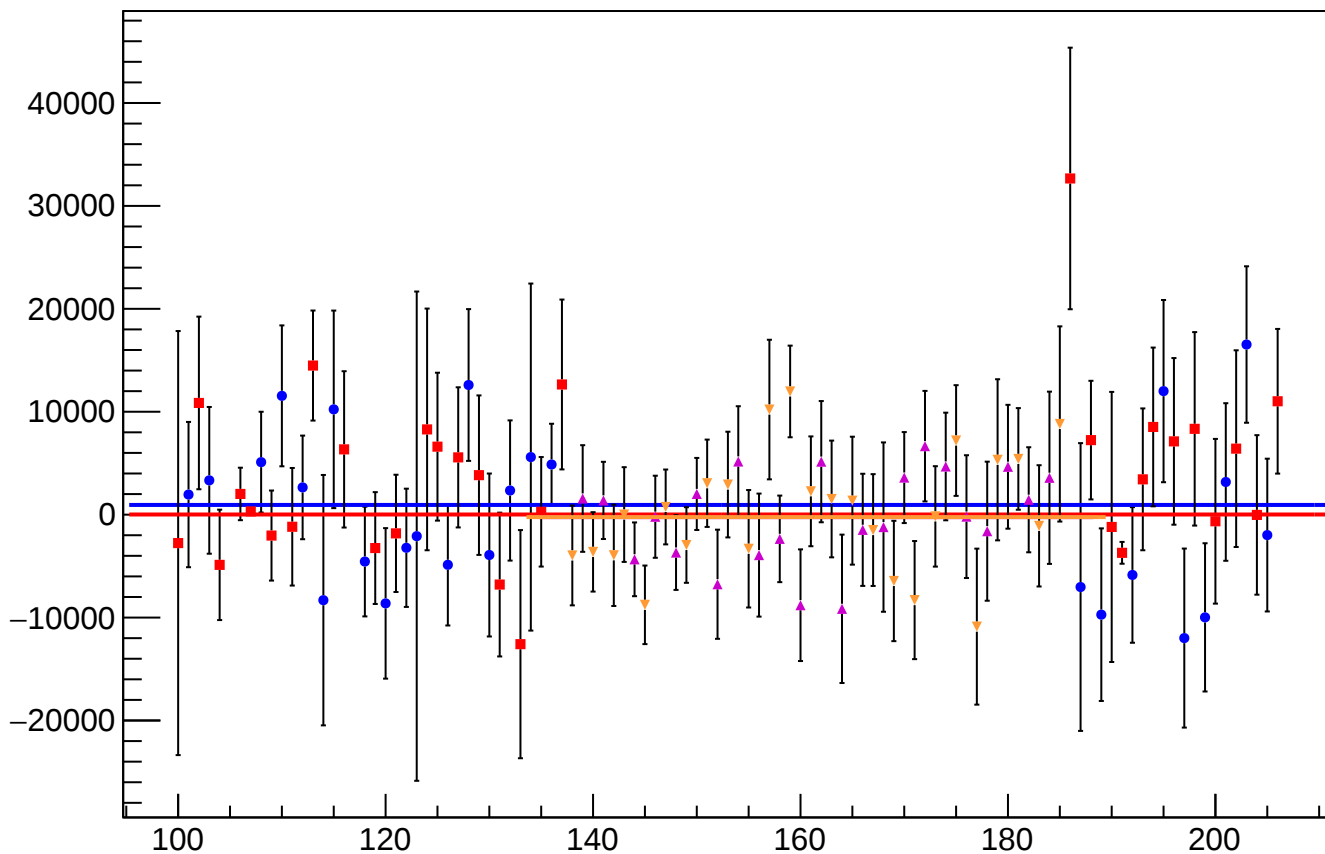
Right: 1870.029 $\pm$ 0.252 χ^2 /NDF: 683534.5/56

In: 1794.817 $\pm$ 0.231 χ^2 /NDF: 371130.5/48

Out: 1809.126 $\pm$ 0.223 χ^2 /NDF: 537934.7/55

All: 1802.245 $\pm$ 0.160 χ^2 /NDF: 911052.3/104

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 944.936 ± 1363.287 χ^2/NDF : 26.7/25

Left Out: -235.806 ± 1005.144 χ^2/NDF : 28.9/24

Right Out: 15.847 ± 411.099 χ^2/NDF : 45.6/30

Left In: -239.224 ± 1028.883 χ^2/NDF : 15.3/22

Left: -237.475 ± 718.990 χ^2/NDF : 44.2/47

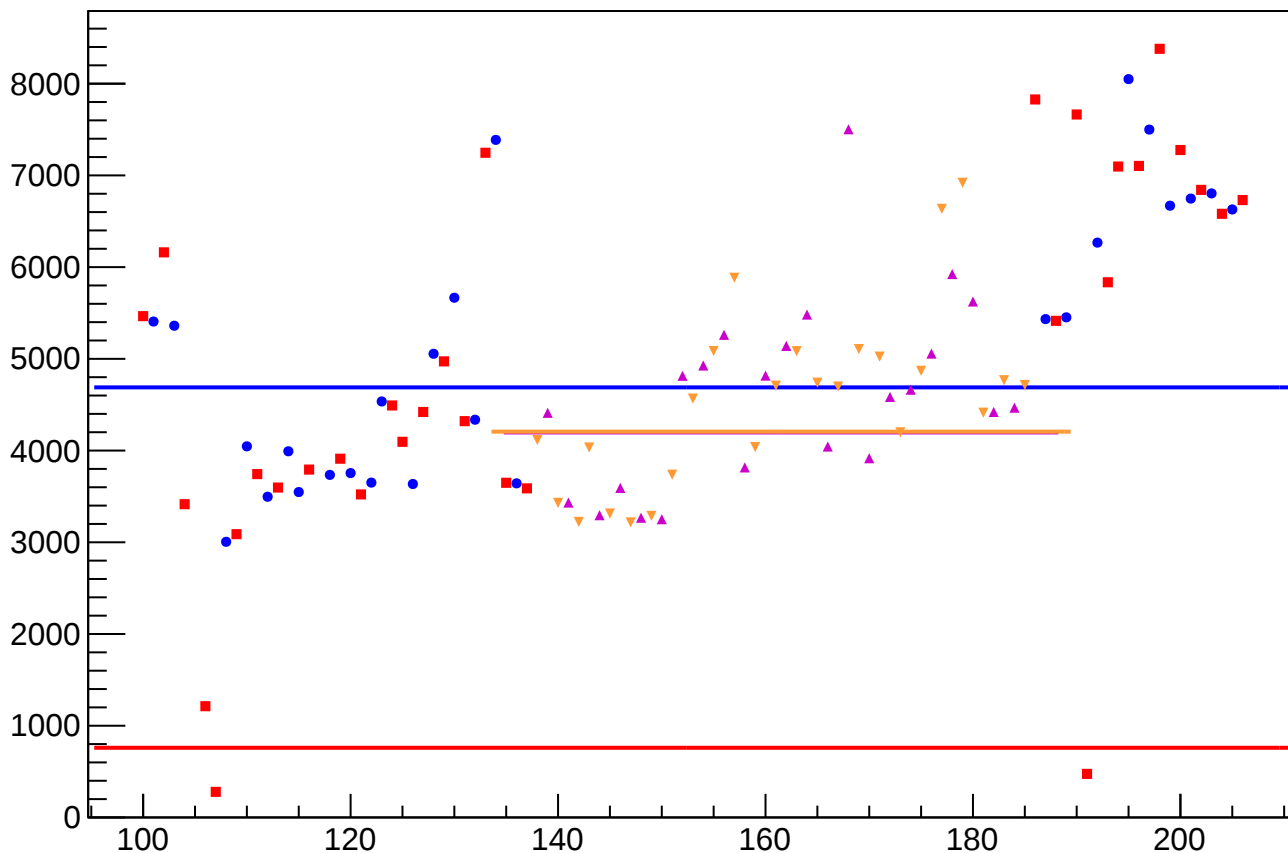
Right: 93.289 ± 393.593 χ^2/NDF : 72.7/56

In: 190.494 ± 821.247 χ^2/NDF : 42.5/48

Out: -20.217 ± 380.504 χ^2/NDF : 74.5/55

All: 17.023 ± 345.247 χ^2/NDF : 117.0/104

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4688.987 $\pm$ 0.964

χ^2 /NDF: 2118912.8/25

Left Out: 4206.076 $\pm$ 0.711

χ^2 /NDF: 1442269.3/24

Right Out: 759.705 $\pm$ 0.291

χ^2 /NDF: 22754966.9/30

Left In: 4197.267 $\pm$ 0.728

χ^2 /NDF: 1471012.9/22

Left: 4201.775 $\pm$ 0.508 χ^2 /NDF: 2913357.2/47

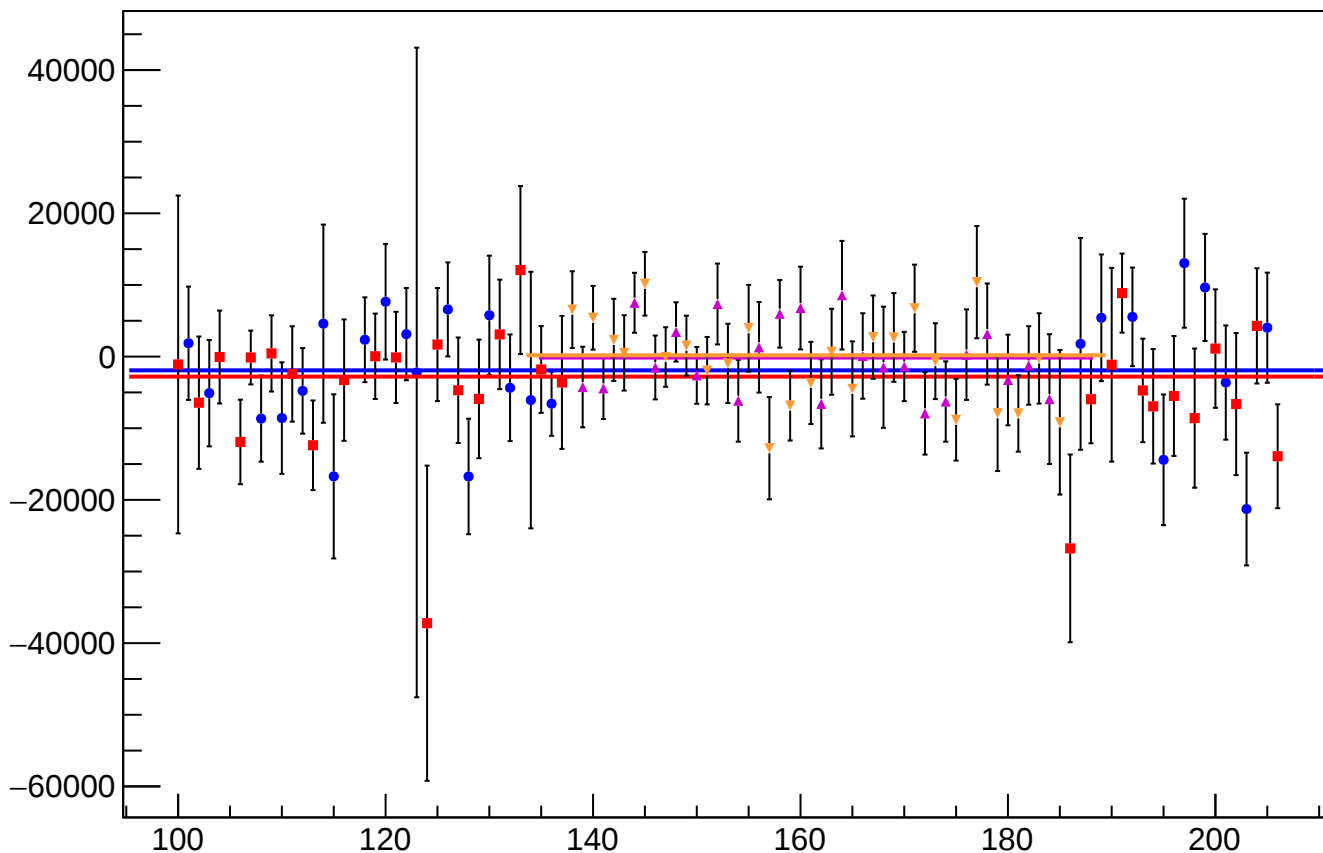
Right: 1087.222 $\pm$ 0.278 χ^2 /NDF: 40103324.6/56

In: 4375.707 $\pm$ 0.581 χ^2 /NDF: 3755695.8/48

Out: 1253.589 $\pm$ 0.269 χ^2 /NDF: 44340219.8/55

All: 1805.364 $\pm$ 0.244 χ^2 /NDF: 71892947.4/100

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1918.354 ± 1505.664 χ^2/NDF : 29.9/25

Left Out: 189.721 ± 1106.851 χ^2/NDF : 25.0/24

Right Out: -2795.679 ± 1300.763 χ^2/NDF : 24.0/30

Left In: -137.477 ± 1129.656 χ^2/NDF : 18.6/22

Left: 29.458 ± 790.601 χ^2/NDF : 43.6/47

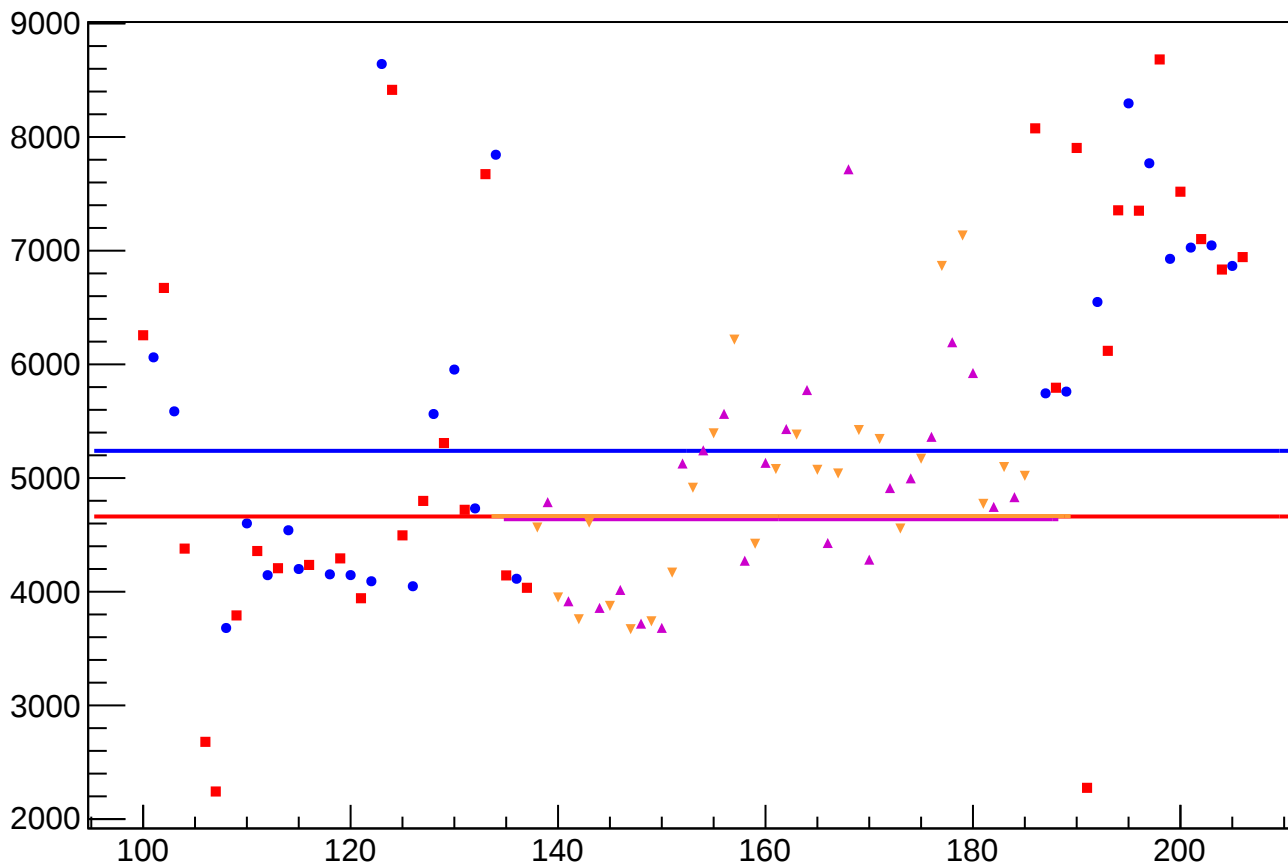
Right: -2420.731 ± 984.313 χ^2/NDF : 54.0/56

In: -778.889 ± 903.607 χ^2/NDF : 49.4/48

Out: -1064.082 ± 842.969 χ^2/NDF : 52.0/55

All: -931.375 ± 616.392 χ^2/NDF : 101.4/104

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5239.288+/-1.065

χ^2/NDF : 1564231.6/25

Left: 4651.983+/-0.559 χ^2/NDF : 2083072.1/47

Right: 4907.378+/-0.694 χ^2/NDF : 5524793.0/56

Left Out: 4665.620+/-0.783

χ^2/NDF : 1017235.0/24

In: 4854.421+/-0.639 χ^2/NDF : 2833682.3/48

Right Out: 4661.820+/-0.916

χ^2/NDF : 3791470.1/30

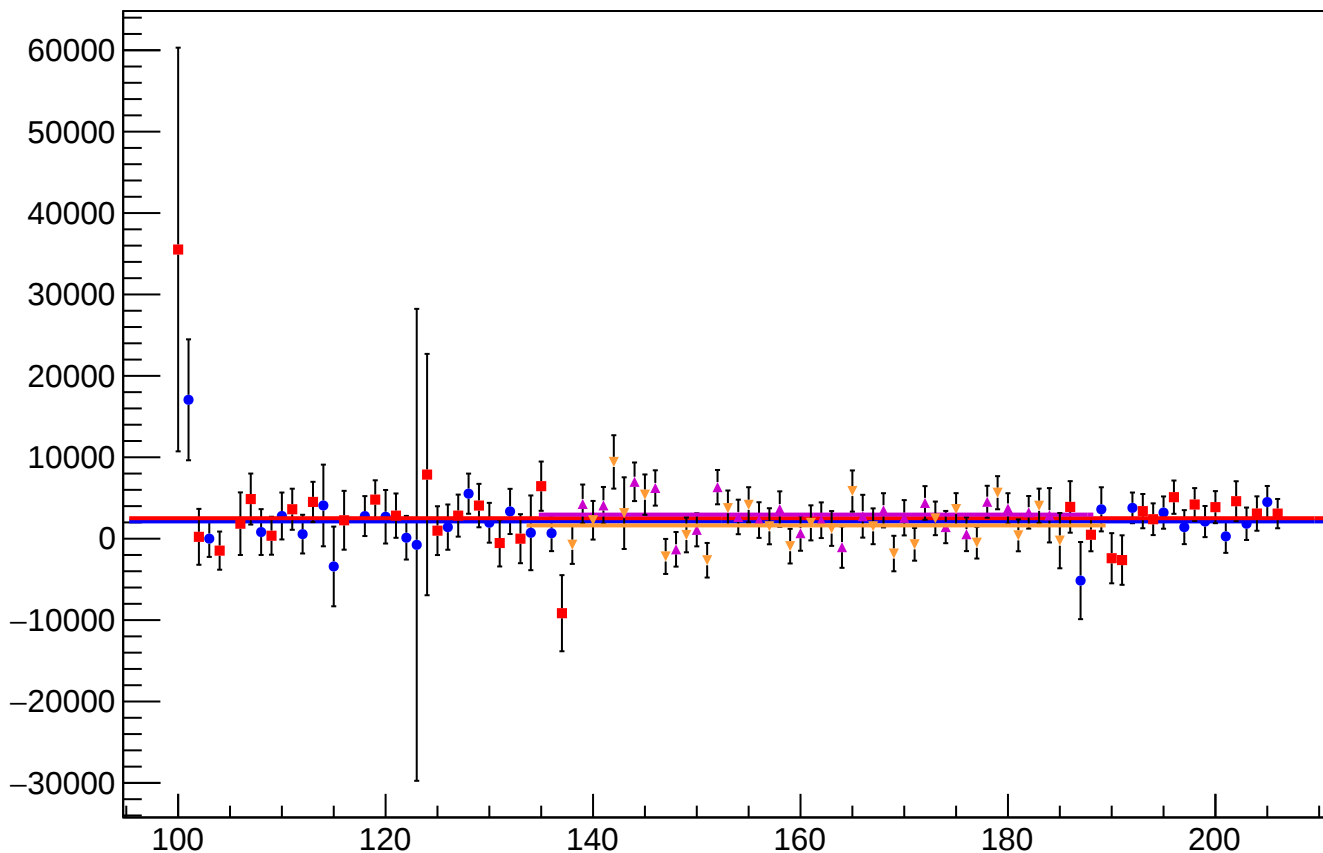
Out: 4664.016+/-0.595 χ^2/NDF : 4808715.0/55

Left In: 4637.777+/-0.799

χ^2/NDF : 1065217.2/22

All: 4752.441+/-0.435 χ^2/NDF : 7689959.8/10

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2121.635+/-503.901 χ^2/NDF : 16.6/25

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2514.956+/-465.669 χ^2/NDF : 29.3/30

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

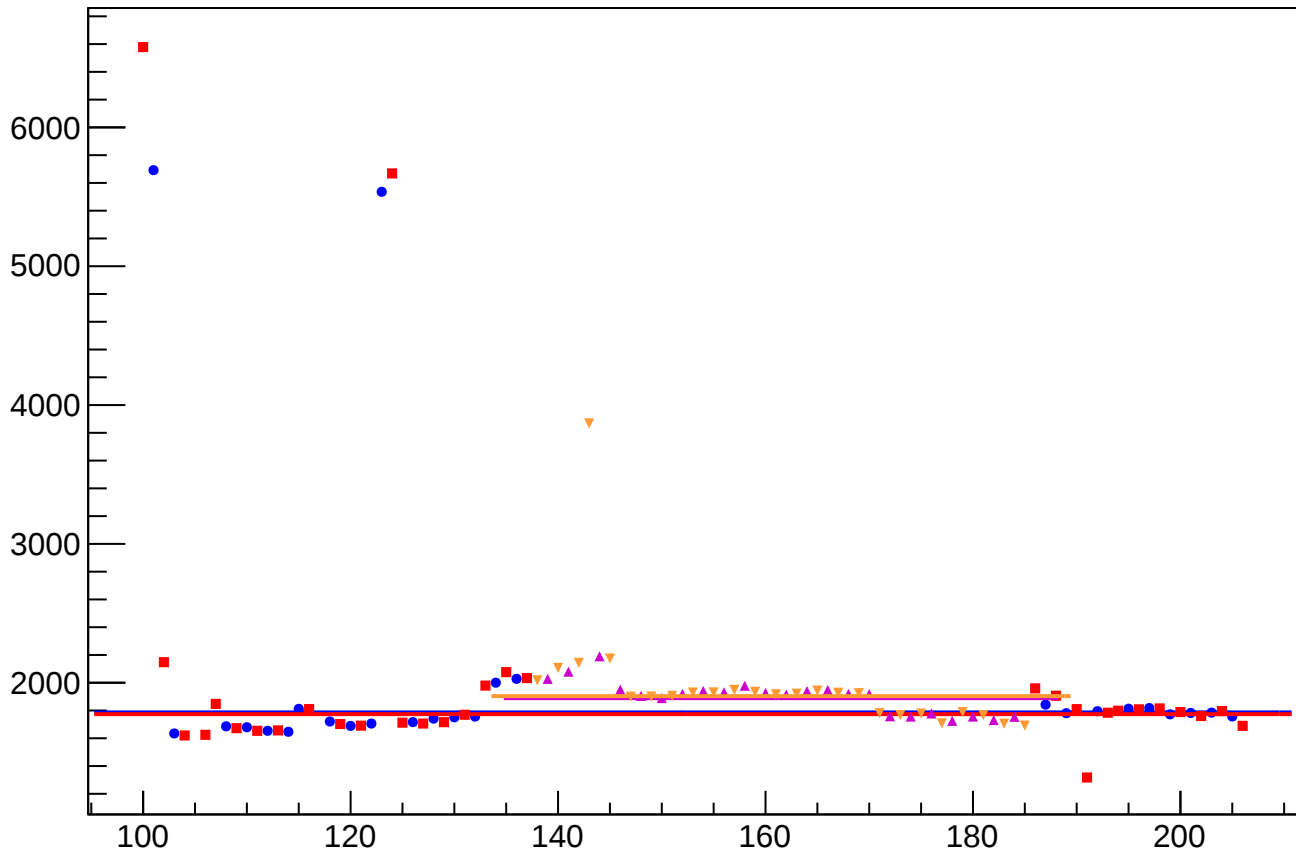
Right: 2333.781+/-341.996 χ^2/NDF : 46.2/56

In: 2583.896+/-337.165 χ^2/NDF : 38.5/48

Out: 2054.465+/-322.498 χ^2/NDF : 66.6/55

All: 2307.415+/-233.053 χ^2/NDF : 106.4/104

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1786.289+/-0.356 χ^2/NDF : 646340.9/25

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1773.712+/-0.328 χ^2/NDF : 373544.8/30

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

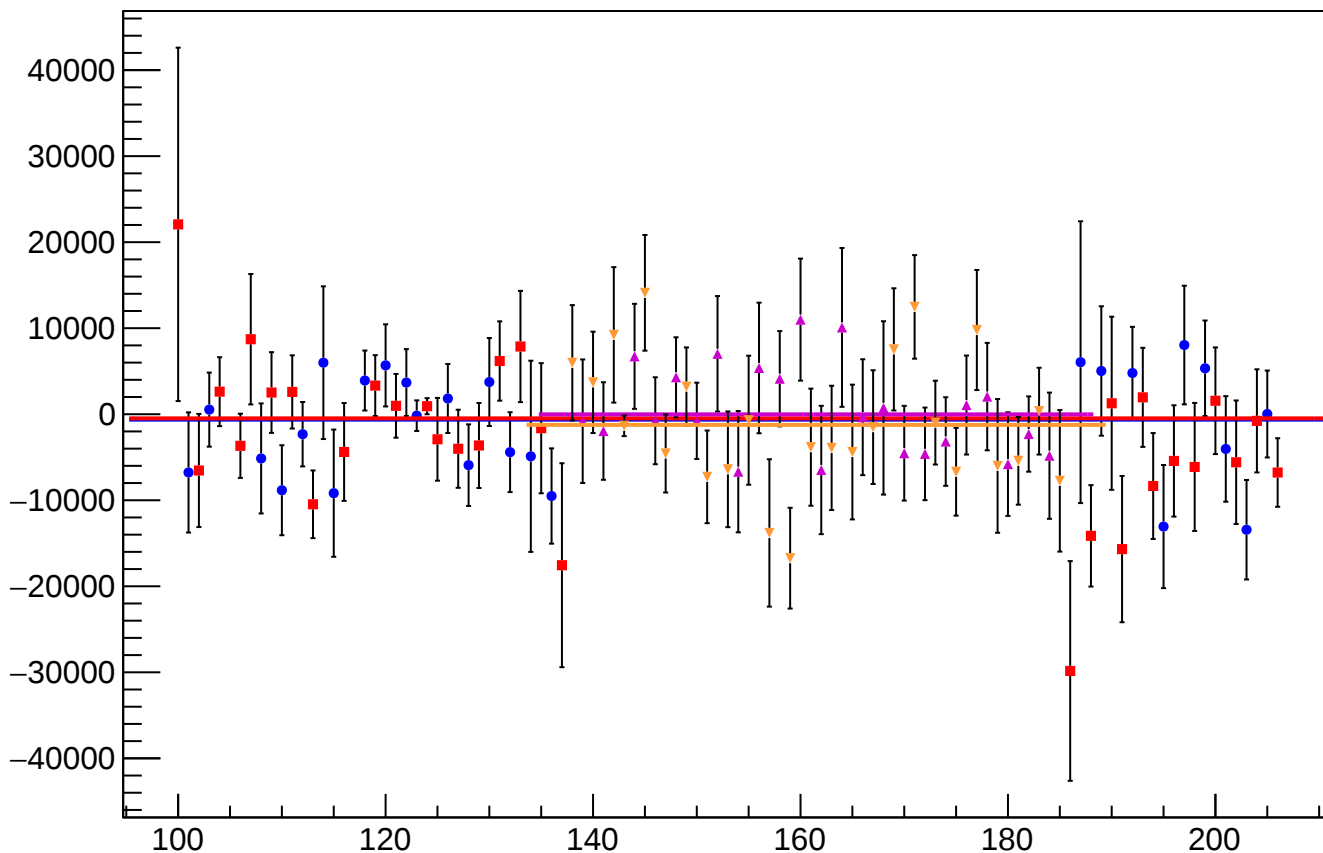
Right: 1779.485+/-0.241 χ^2/NDF : 1020559.6/56

In: 1842.975+/-0.238 χ^2/NDF : 818585.9/48

Out: 1841.105+/-0.228 χ^2/NDF : 996383.4/55

All: 1841.997+/-0.165 χ^2/NDF : 1815001.5/100

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -629.626 ± 911.660 $\chi^2/\text{NDF}: 29.1/25$

Left Out: -1239.833 ± 865.201 $\chi^2/\text{NDF}: 33.9/24$

Right Out: -479.603 ± 675.554 $\chi^2/\text{NDF}: 43.4/30$

Left In: -15.863 ± 1243.317 $\chi^2/\text{NDF}: 13.2/22$

Left: -840.501 ± 710.172 $\chi^2/\text{NDF}: 47.8/47$

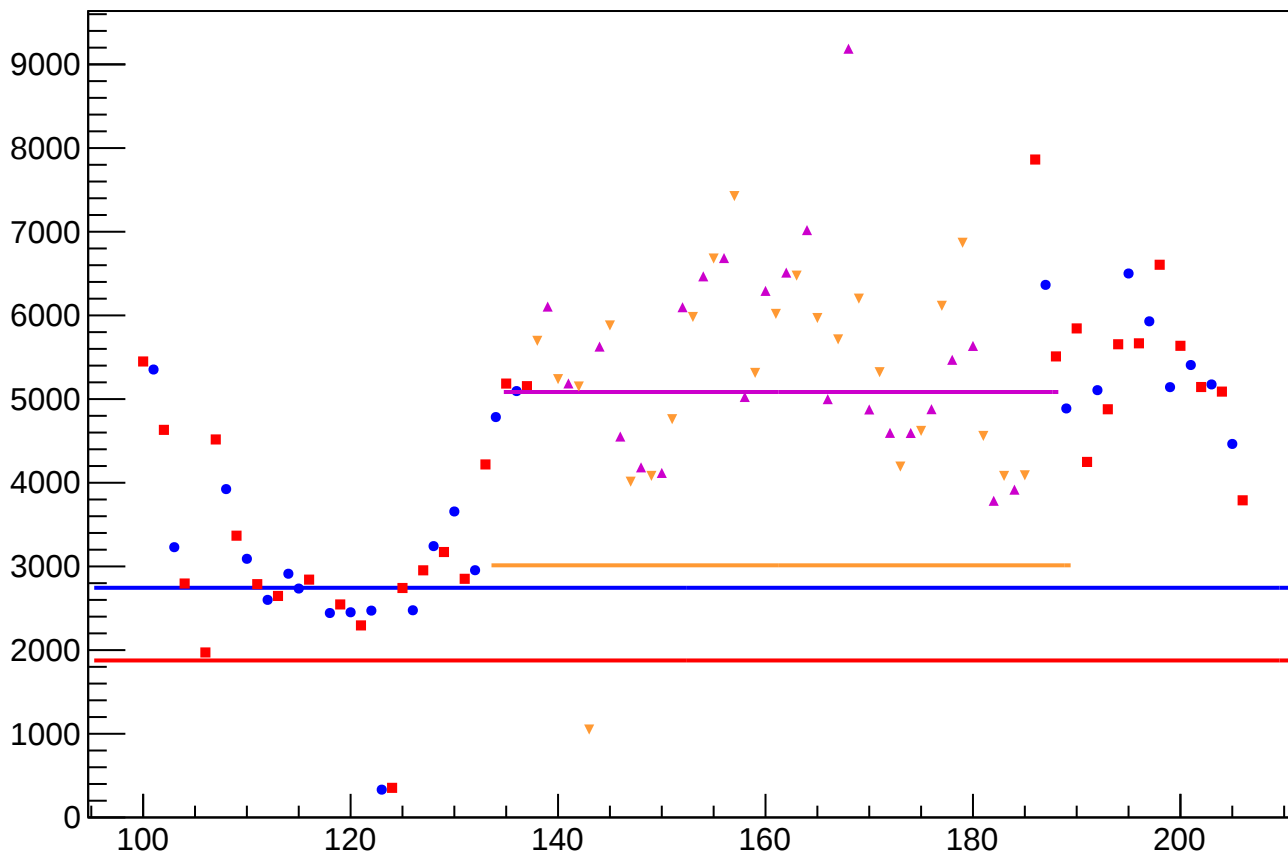
Right: -532.781 ± 542.775 $\chi^2/\text{NDF}: 72.5/56$

In: -415.019 ± 735.197 $\chi^2/\text{NDF}: 42.5/48$

Out: -767.540 ± 532.468 $\chi^2/\text{NDF}: 77.8/55$

All: -646.250 ± 431.245 $\chi^2/\text{NDF}: 120.5/104$

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2744.701 $\pm$ 0.645

χ^2 /NDF: 7584855.5/25

Left: 3689.075 $\pm$ 0.502 χ^2 /NDF: 17314385.8/47

Right: 2184.062 $\pm$ 0.384 χ^2 /NDF: 23190634.1/56

Left Out: 3013.268 $\pm$ 0.612

χ^2 /NDF: 12270753.9/24

In: 3562.882 $\pm$ 0.520 χ^2 /NDF: 13495445.7/48

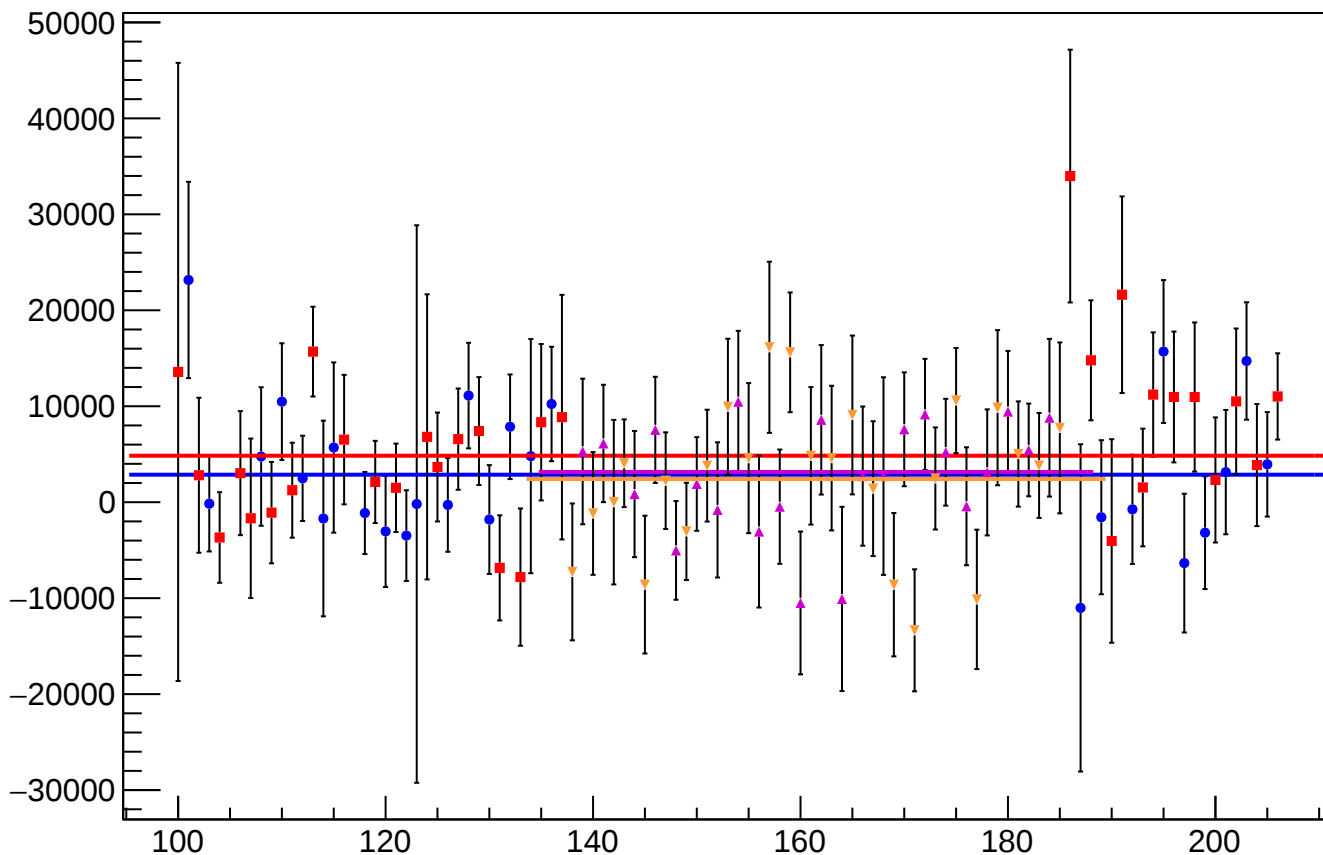
Right Out: 1876.214 $\pm$ 0.478 χ^2 /NDF: 14434092.5/30

Out: 2306.873 $\pm$ 0.377 χ^2 /NDF: 28850823.4/55

Left In: 5084.645 $\pm$ 0.879 χ^2 /NDF: 1303587.7/22

All: 2739.021 $\pm$ 0.305 χ^2 /NDF: 46175125.3/100

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2866.421+/-1217.663 χ^2/NDF : 26.5/25

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 4844.158+/-1135.072 χ^2/NDF : 36.7/30

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

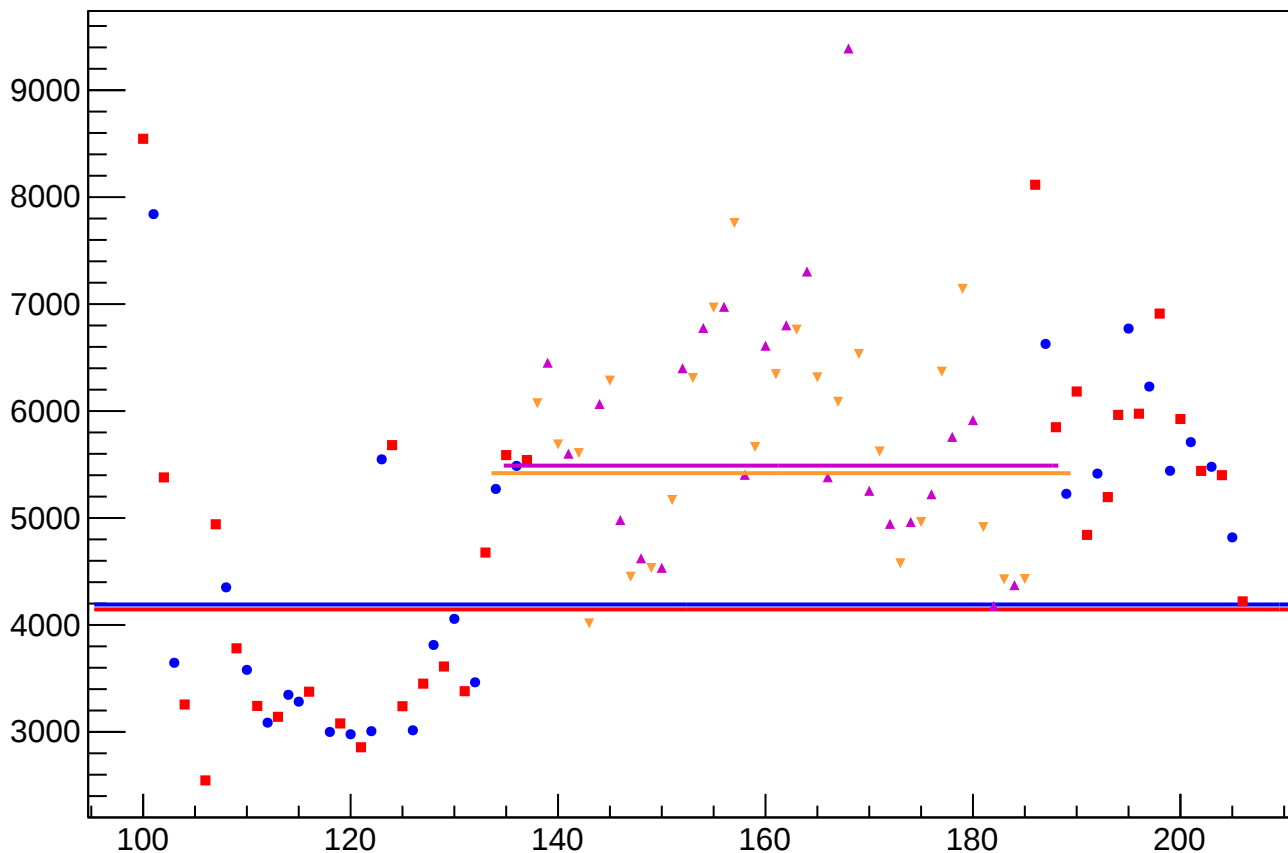
Right: 3924.631+/-830.281 χ^2/NDF : 64.6/56

In: 2996.516+/-900.373 χ^2/NDF : 42.0/48

Out: 3781.840+/-851.140 χ^2/NDF : 68.6/55

All: 3411.235+/-618.520 χ^2/NDF : 111.0/104

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4191.353+/-0.861 χ^2/NDF : 1984594.1/25

Left Out: 5419.305+/-0.910 χ^2/NDF : 1109972.1/24

Right Out: 4145.339+/-0.795 χ^2/NDF : 2421059.2/30

Left In: 5489.885+/-0.946 χ^2/NDF : 1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

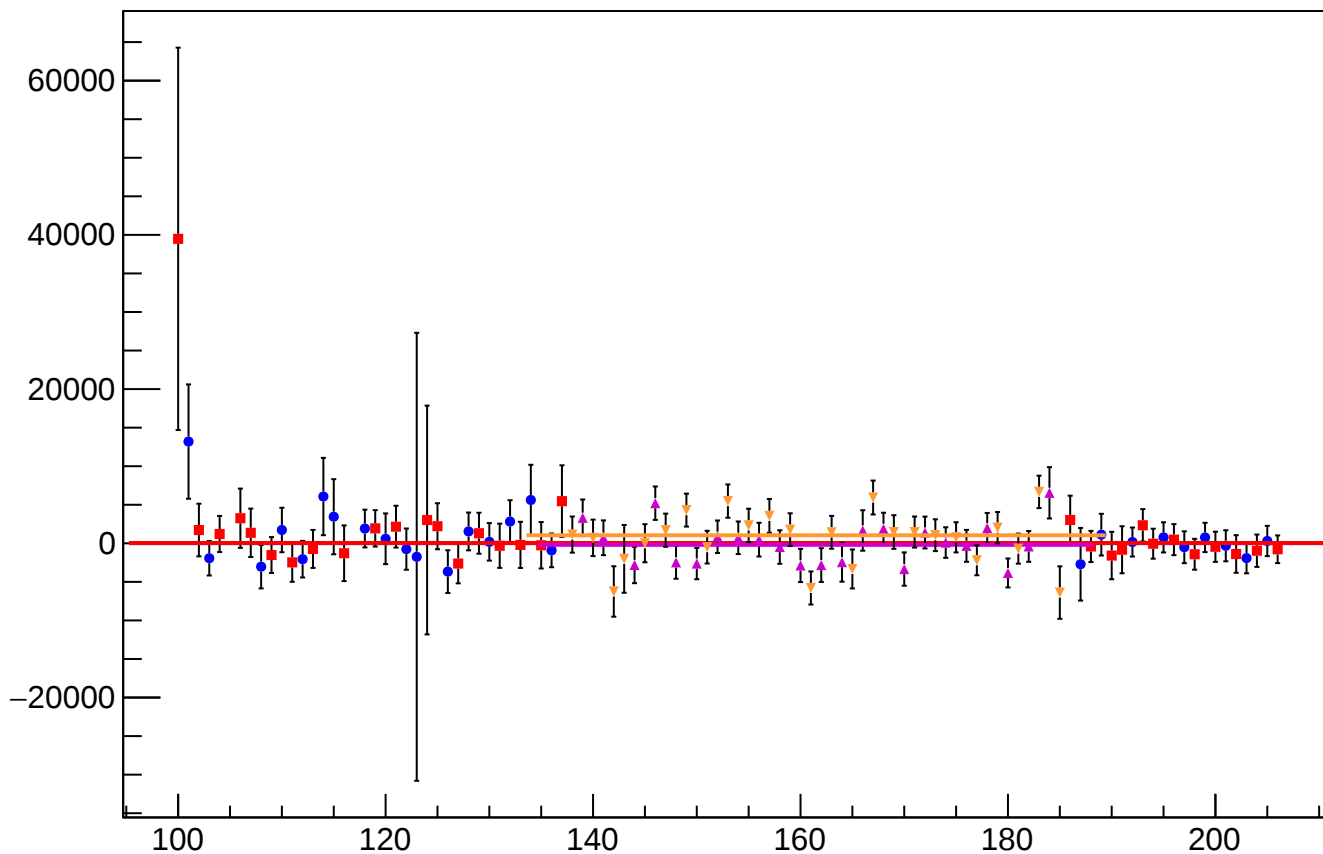
Right: 4166.515+/-0.584 χ^2/NDF : 4407194.9/56

In: 4779.908+/-0.637 χ^2/NDF : 4079852.4/48

Out: 4697.009+/-0.599 χ^2/NDF : 4643007.0/55

All: 4735.908+/-0.436 χ^2/NDF : 8731858.2/10

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 28.248+/-501.356 χ^2/NDF : 15.6/25

Left Out: 1041.262+/-446.249 χ^2/NDF : 48.6/24

Right Out: 39.112+/-463.623 χ^2/NDF : 14.0/30

Left In: -191.966+/-453.055 χ^2/NDF : 30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

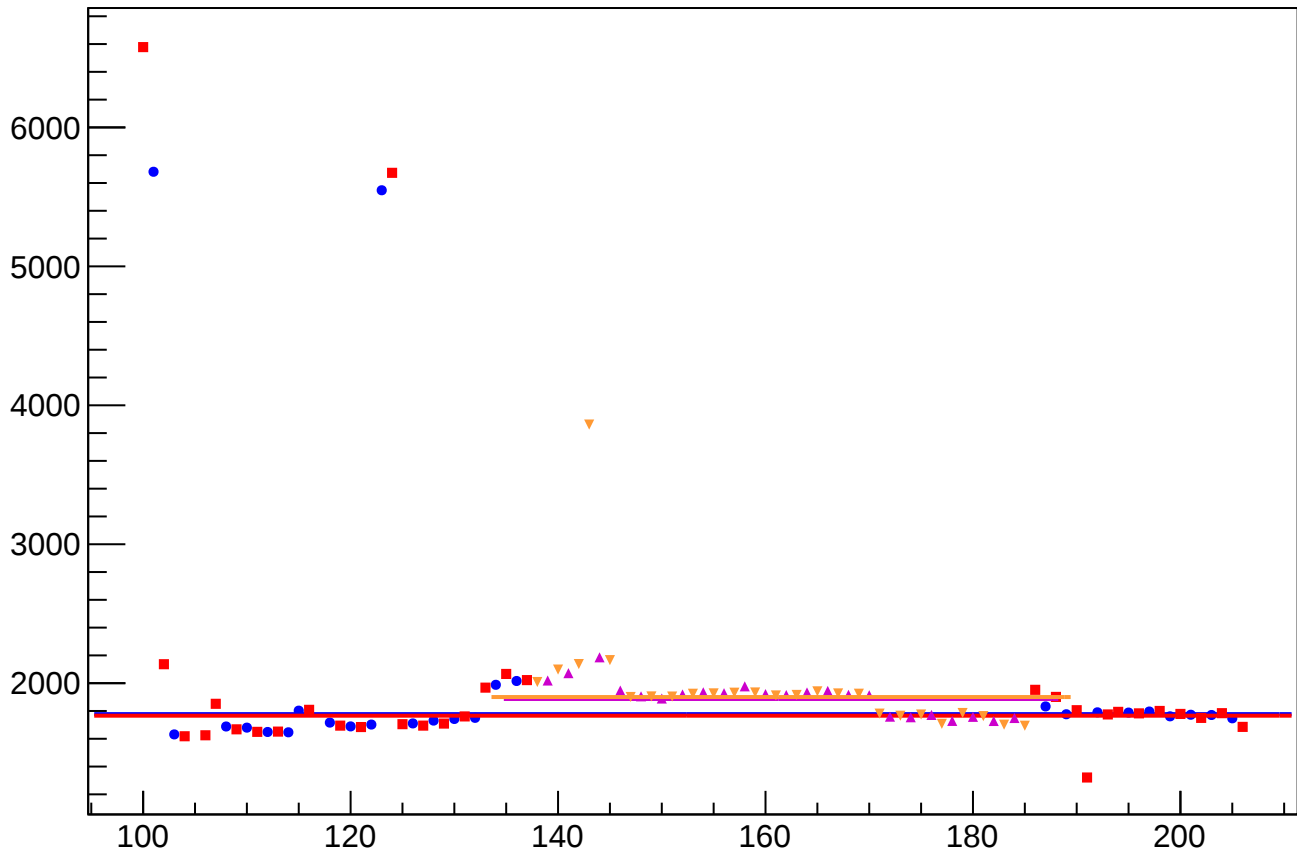
Right: 34.104+/-340.390 χ^2/NDF : 29.7/56

In: -92.975+/-336.141 χ^2/NDF : 45.7/48

Out: 559.315+/-321.512 χ^2/NDF : 65.0/55

All: 247.672+/-232.343 χ^2/NDF : 112.7/104

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1777.380+/-0.355 χ^2/NDF : 644226.5/25

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1766.137+/-0.327 χ^2/NDF : 369798.9/30

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

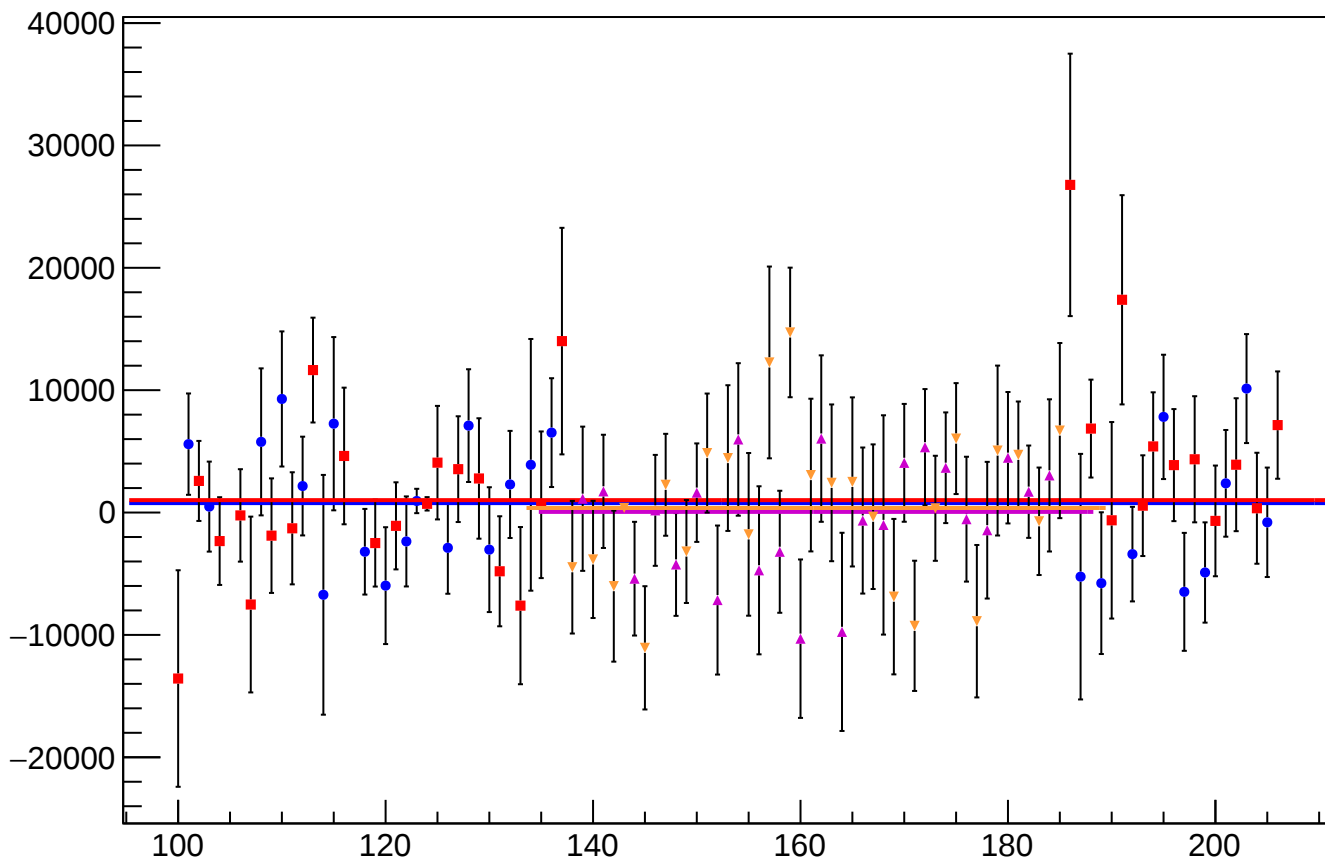
Right: 1771.302+/-0.240 χ^2/NDF : 1014569.2/56

In: 1837.381+/-0.238 χ^2/NDF : 819784.0/48

Out: 1835.564+/-0.227 χ^2/NDF : 994907.8/55

All: 1836.431+/-0.164 χ^2/NDF : 1814722.4/100

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 770.628+/-679.907 χ^2/NDF : 28.9/25

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 1013.236+/-462.561 χ^2/NDF : 36.4/30

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

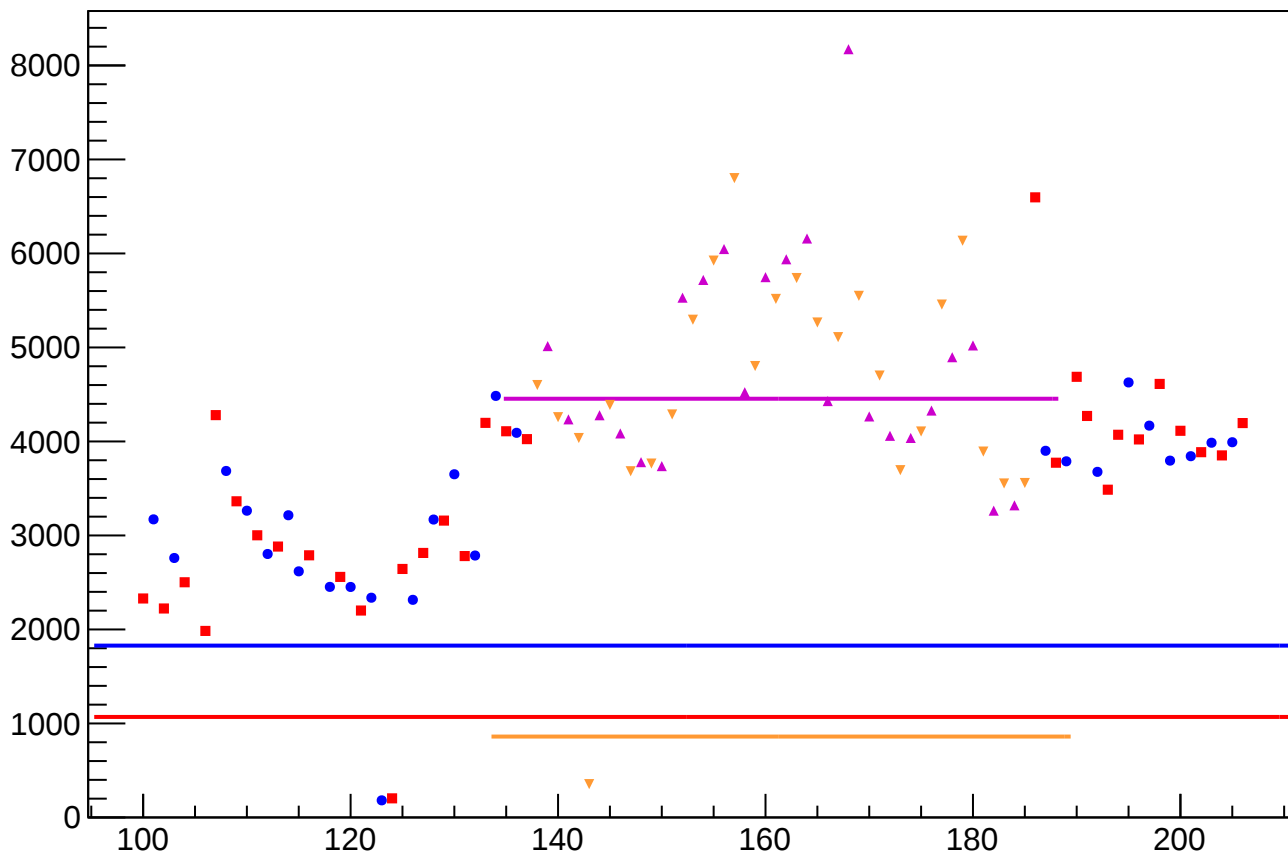
Right: 936.475+/-382.445 χ^2/NDF : 65.3/56

In: 569.617+/-576.863 χ^2/NDF :43.7/48

Out: 632.821+/-294.576 χ^2/NDF :68.3/55

All: 619.748+/-262.350 χ^2/NDF : 112.1/104

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1828.123+/-0.481 χ^2/NDF : 11337272.9/25

Left Out: 860.545+/-0.270 χ^2/NDF : 26340106.5/24

Right Out: 1069.252+/-0.327 χ^2/NDF : 19188645.4/30

Left In: 4454.402+/-0.771 χ^2/NDF : 1349758.1/22

Left: 1253.867+/-0.255 χ^2/NDF : 47056303.3/47

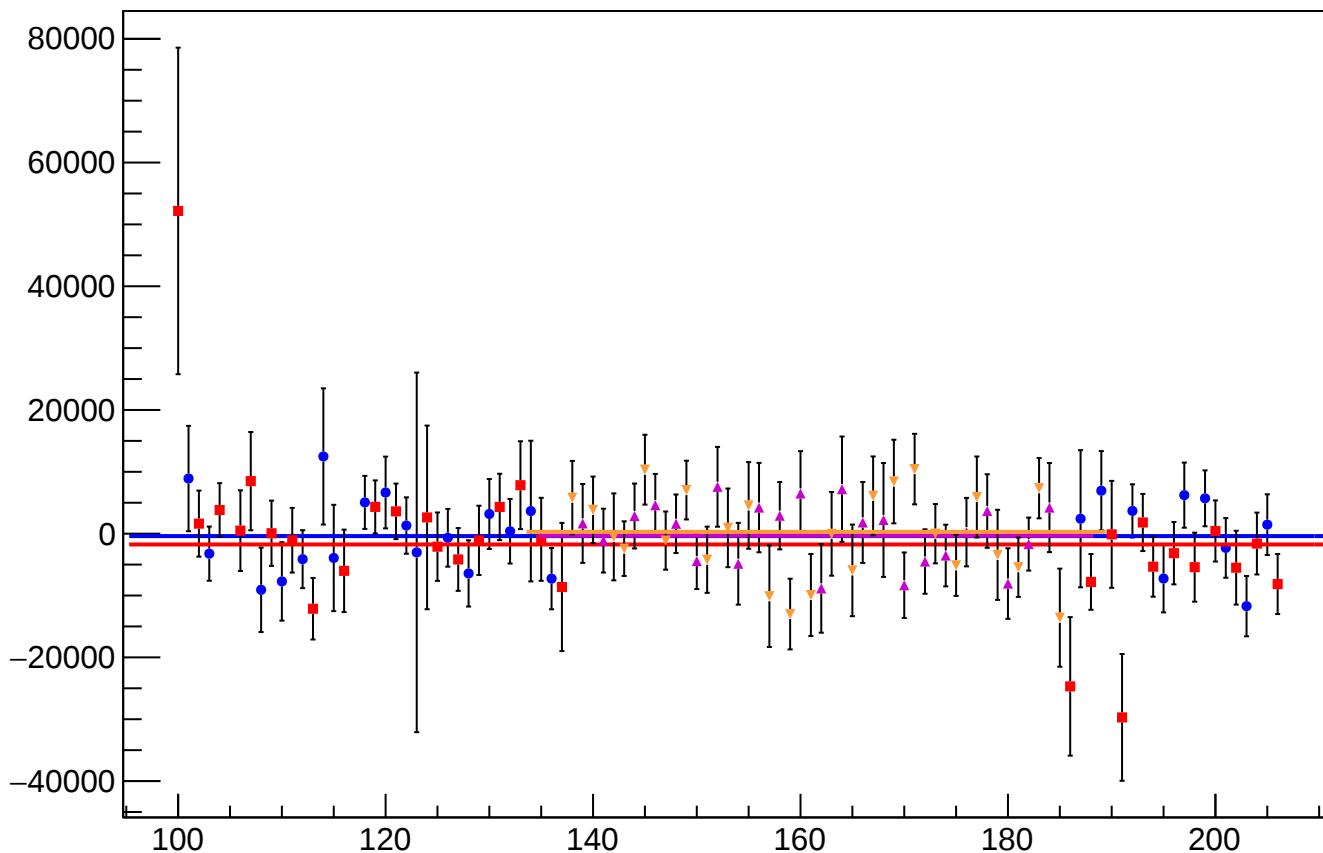
Right: 1309.360+/-0.270 χ^2/NDF : 32229126.5/56

In: 2563.860+/-0.408 χ^2/NDF : 21046786.9/48

Out: 945.189+/-0.208 χ^2/NDF : 45770783.3/55

All: 1279.980+/-0.186 χ^2/NDF : 79307723.4/103

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -389.365 ± 1089.906 χ^2/NDF : 26.7/25

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -1746.465 ± 1023.316 χ^2/NDF : 37.7/30

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

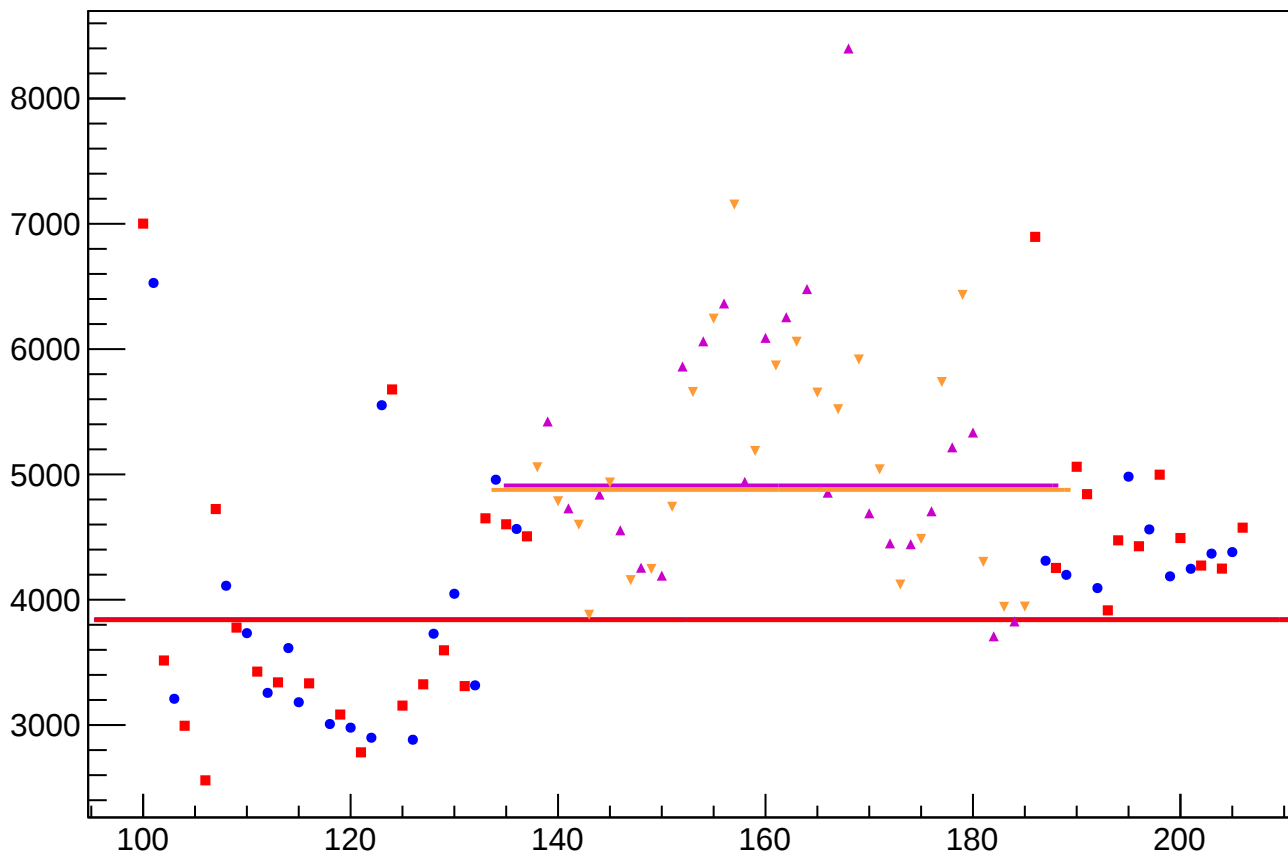
Right: -1110.636 ± 746.025 χ^2/NDF : 65.2/56

In: -363.561 ± 805.585 χ^2/NDF : 41.4/48

Out: -851.913 ± 766.060 χ^2/NDF : 71.8/55

All: -620.010 ± 555.134 χ^2/NDF : 113.4/104

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3843.724 $\pm$ 0.771 χ^2 /NDF: 884704.4/25

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF: 972528.1/24

Right Out: 3837.005 $\pm$ 0.718 χ^2 /NDF: 1123655.7/30

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

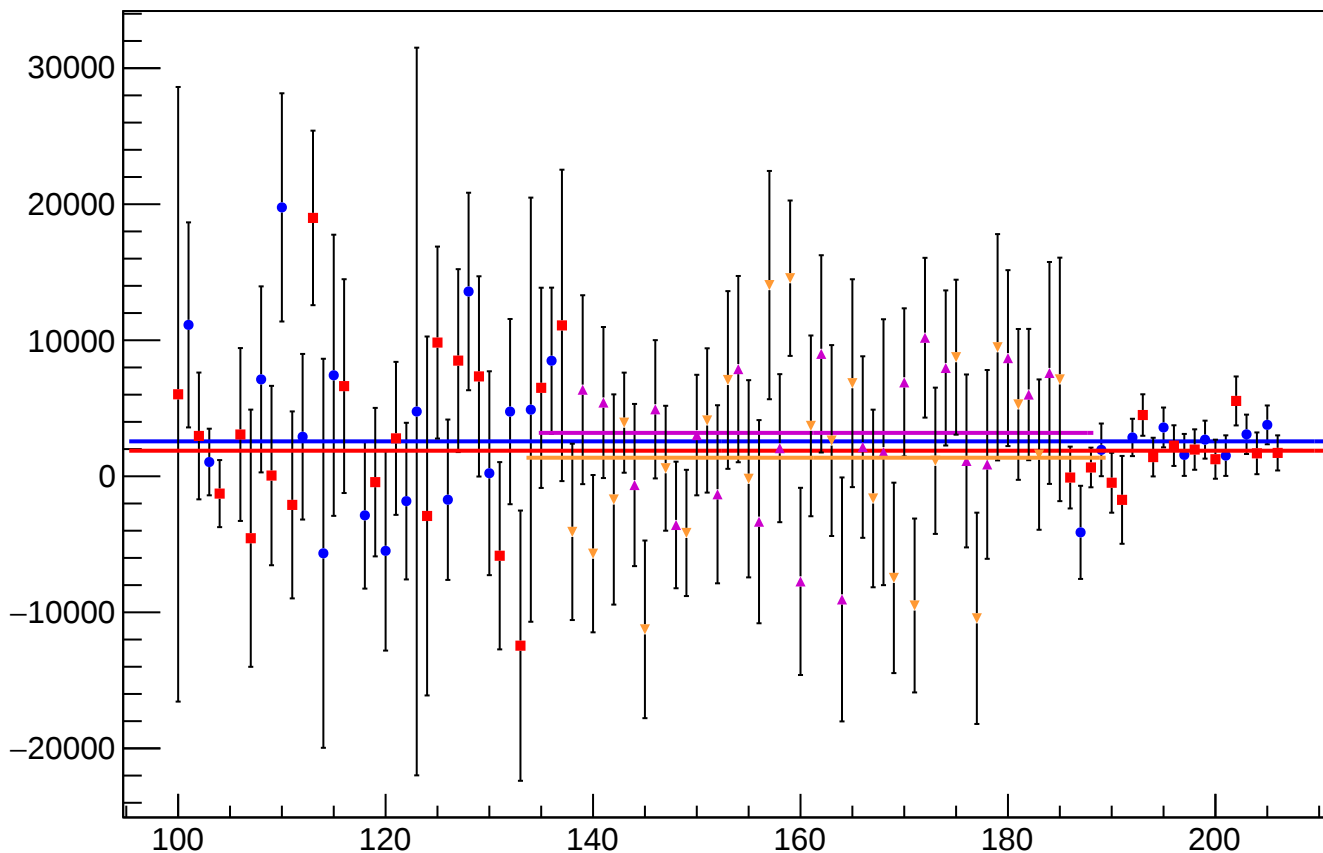
Right: 3840.127 $\pm$ 0.525 χ^2 /NDF: 2008400.8/56

In: 4328.175 $\pm$ 0.570 χ^2 /NDF: 2798840.2/48

Out: 4290.013 $\pm$ 0.539 χ^2 /NDF: 3009677.7/55

All: 4308.052 $\pm$ 0.392 χ^2 /NDF: 5810884.5/10

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2568.560+/-489.533 χ^2/NDF : 20.2/25

Left Out: 1365.082+/-1206.268 χ^2/NDF :28.0/24

Right Out: 1880.106+/-441.423 χ^2/NDF : 29.0/30

Left In: 3191.160+/-1270.021 χ^2/NDF :14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

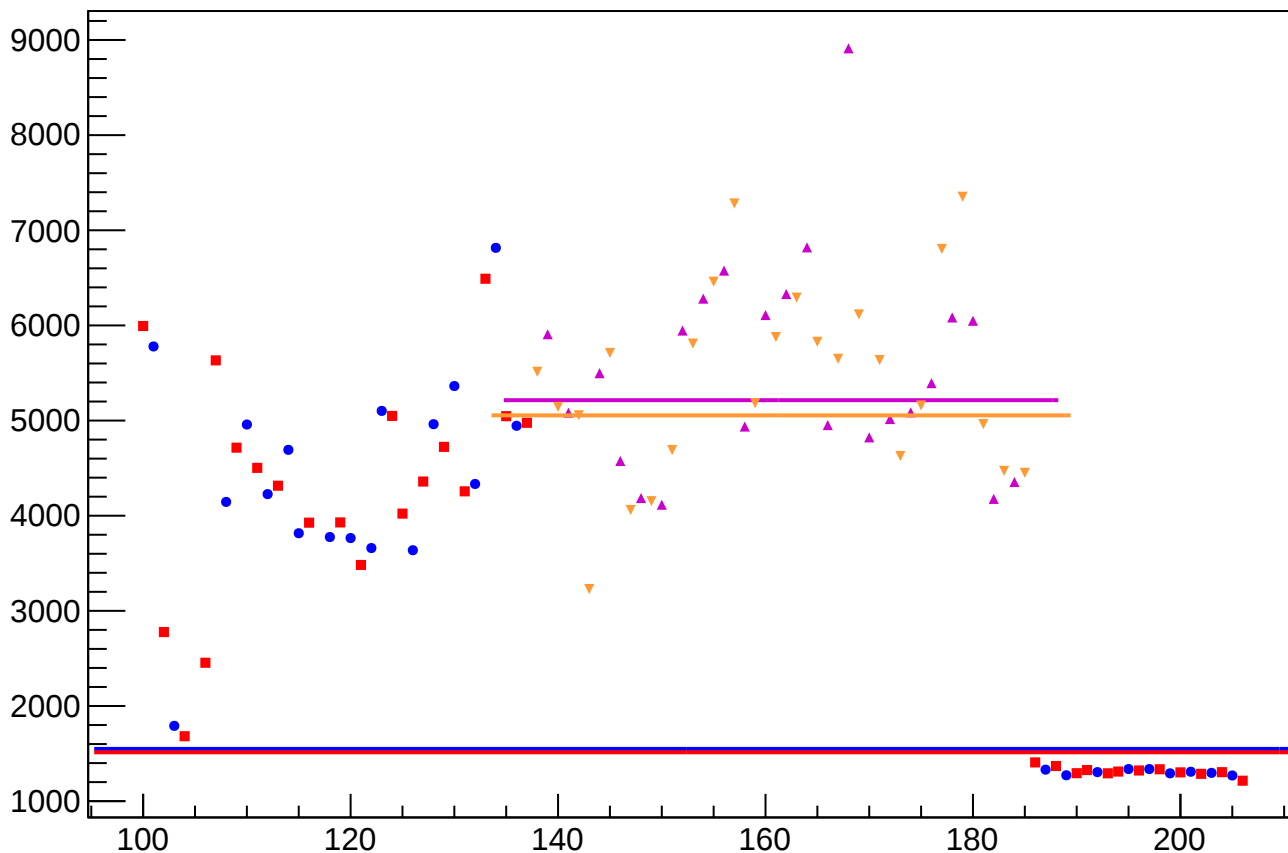
Right: 2188.850+/-327.826 χ^2/NDF : 50.3/56

In: 2649.097+/-456.775 χ^2/NDF :34.4/48

Out: 1819.283+/-414.539 χ^2/NDF :57.1/55

All: 2194.059+/-306.972 χ^2/NDF : 93.3/104

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1548.983 $\pm$ 0.346 χ^2 /NDF: 5698319.1/25

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF: 1437224.7/24

Right Out: 1513.553 $\pm$ 0.312 χ^2 /NDF: 5746095.3/30

Left In: 5214.120 $\pm$ 0.898 χ^2 /NDF: 1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

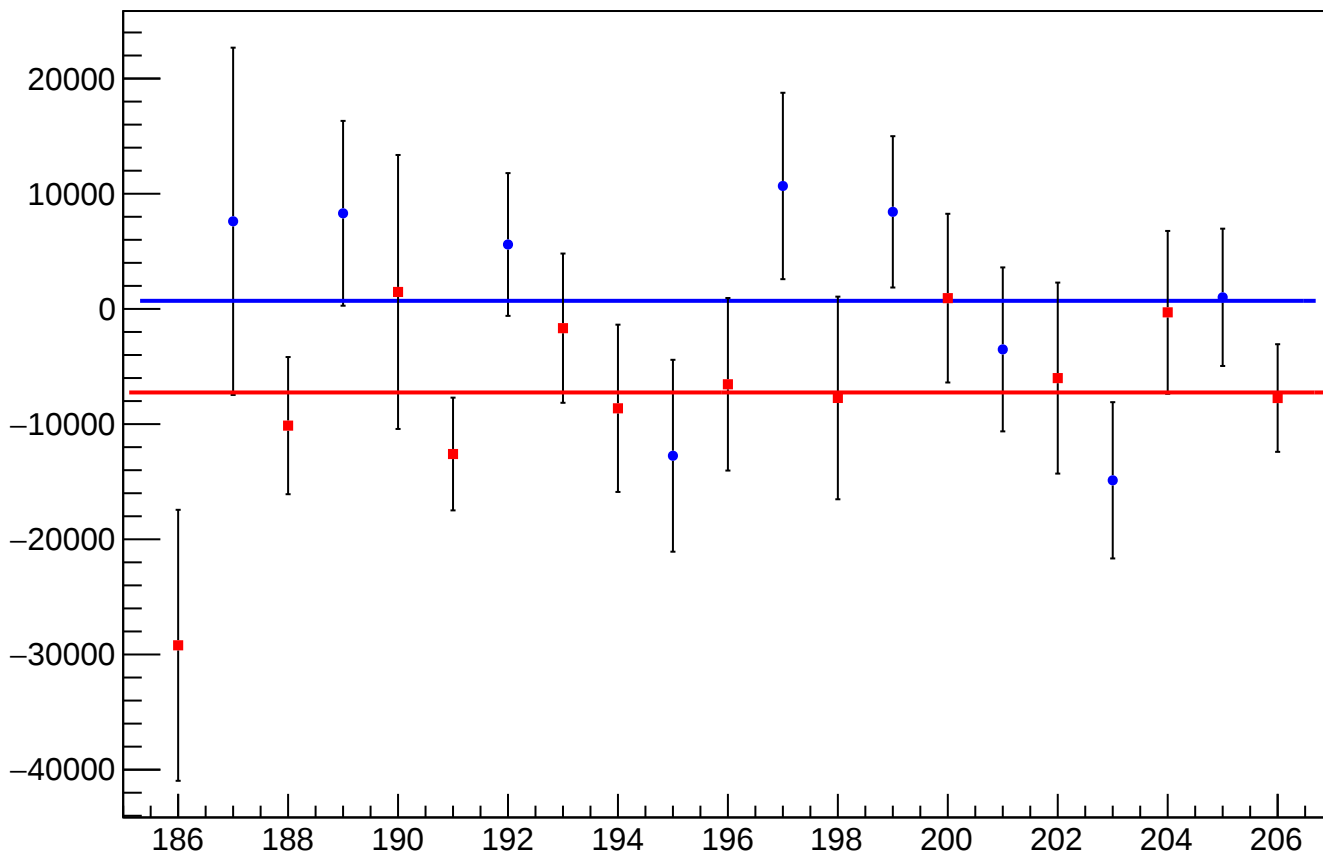
Right: 1529.426 $\pm$ 0.232 χ^2 /NDF: 11450197.5/56

In: 2023.084 $\pm$ 0.323 χ^2 /NDF: 21252886.8/48

Out: 1931.058 $\pm$ 0.293 χ^2 /NDF: 22387069.0/55

All: 1972.583 $\pm$ 0.217 χ^2 /NDF: 43684504.8/103

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 703.276+/-2436.346 χ^2/NDF : 12.9/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -7251.852+/-1973.248 χ^2/NDF : 8.5/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

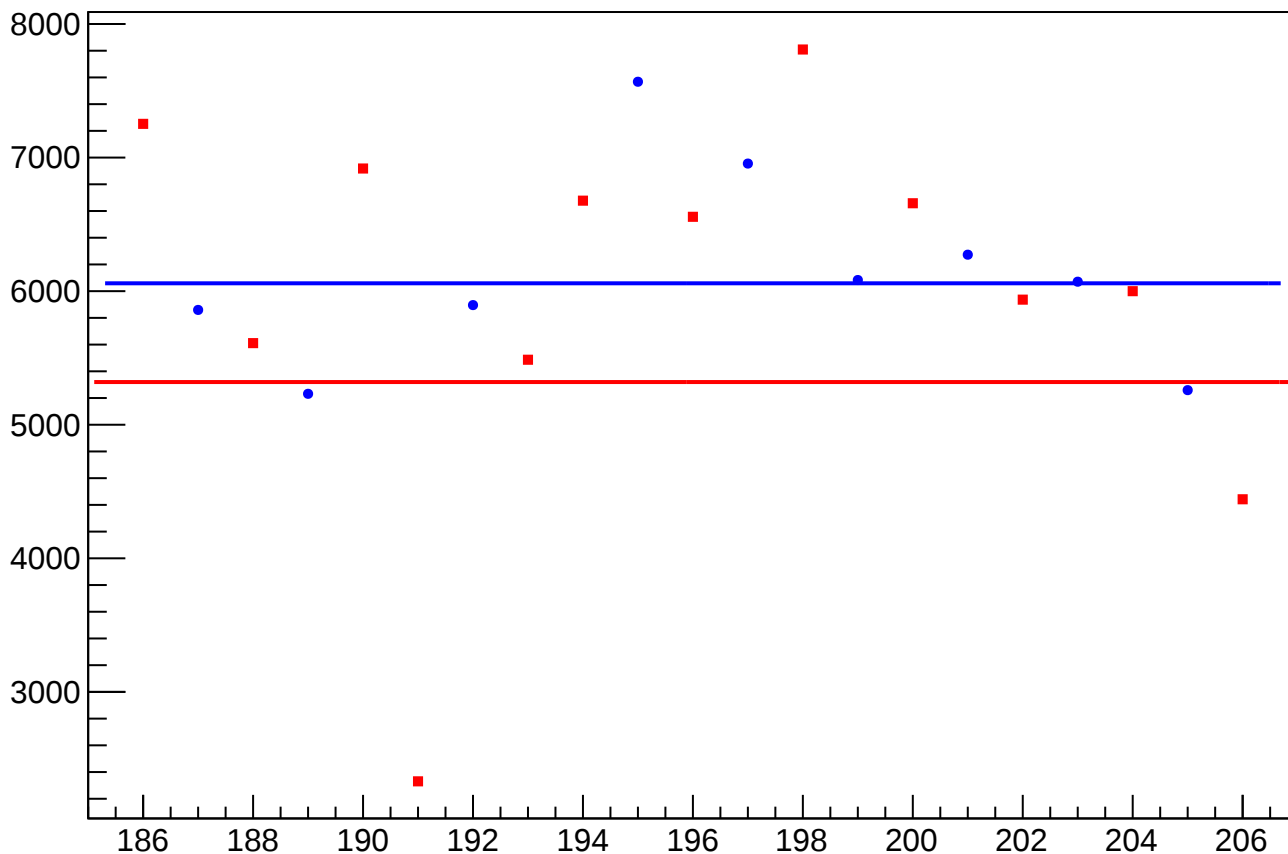
Right: -4100.626+/-1533.399 χ^2/NDF : 27.8/20

In: 703.276+/-2436.346 χ^2/NDF : 12.9/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -4100.626+/-1533.399 χ^2/NDF : 27.8/20

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 6058.836+/-1.723 χ^2/NDF : 151045.8/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5319.633+/-1.395 χ^2/NDF : 1294076.0/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

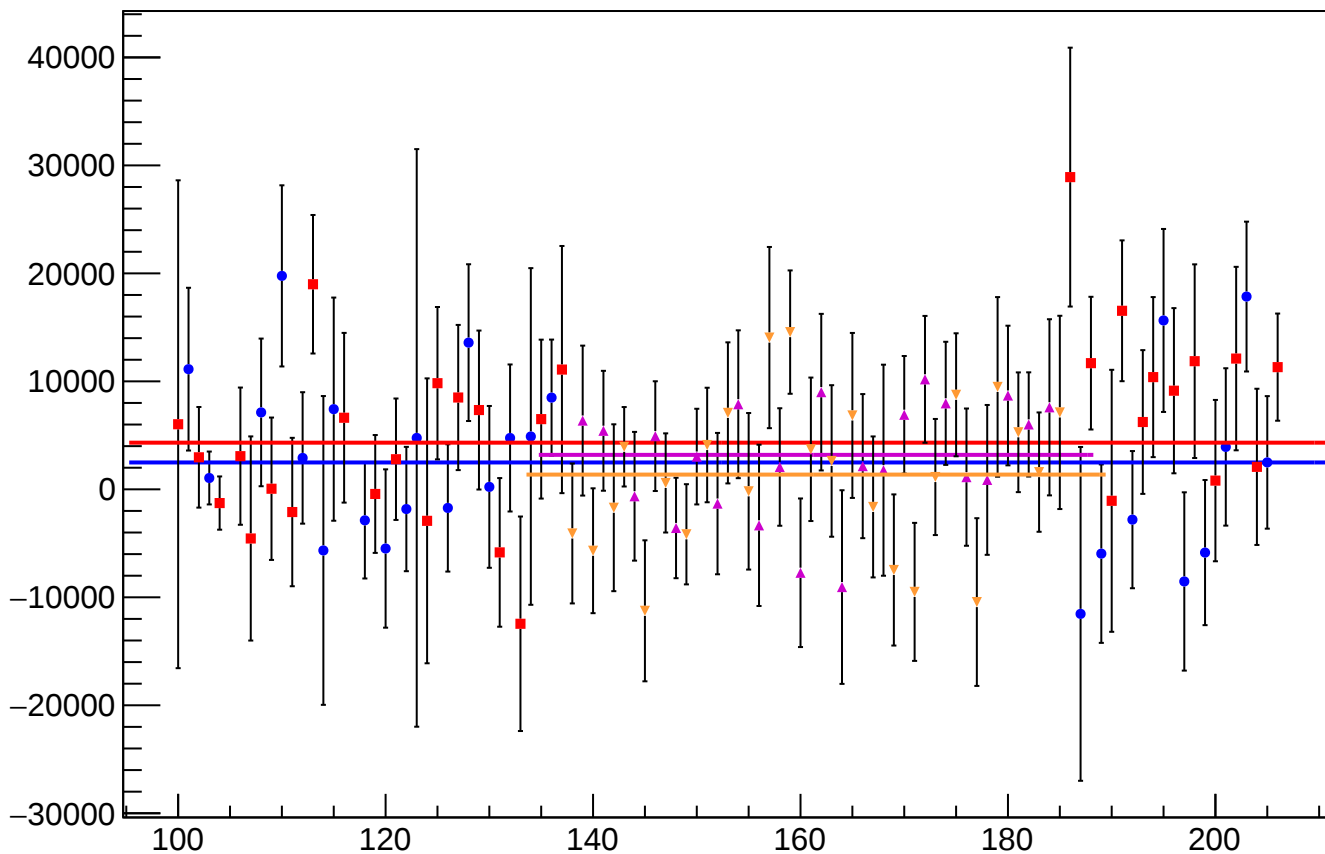
Right: 5612.450+/-1.084 χ^2/NDF : 1556301.8/20

In: 6058.836+/-1.723 χ^2/NDF : 151045.8/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5612.450+/-1.084 χ^2/NDF : 1556301.8/20

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2488.160+/-1257.639 χ^2/NDF : 27.2/25

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 4321.137+/-1156.490 χ^2/NDF : 34.9/30

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

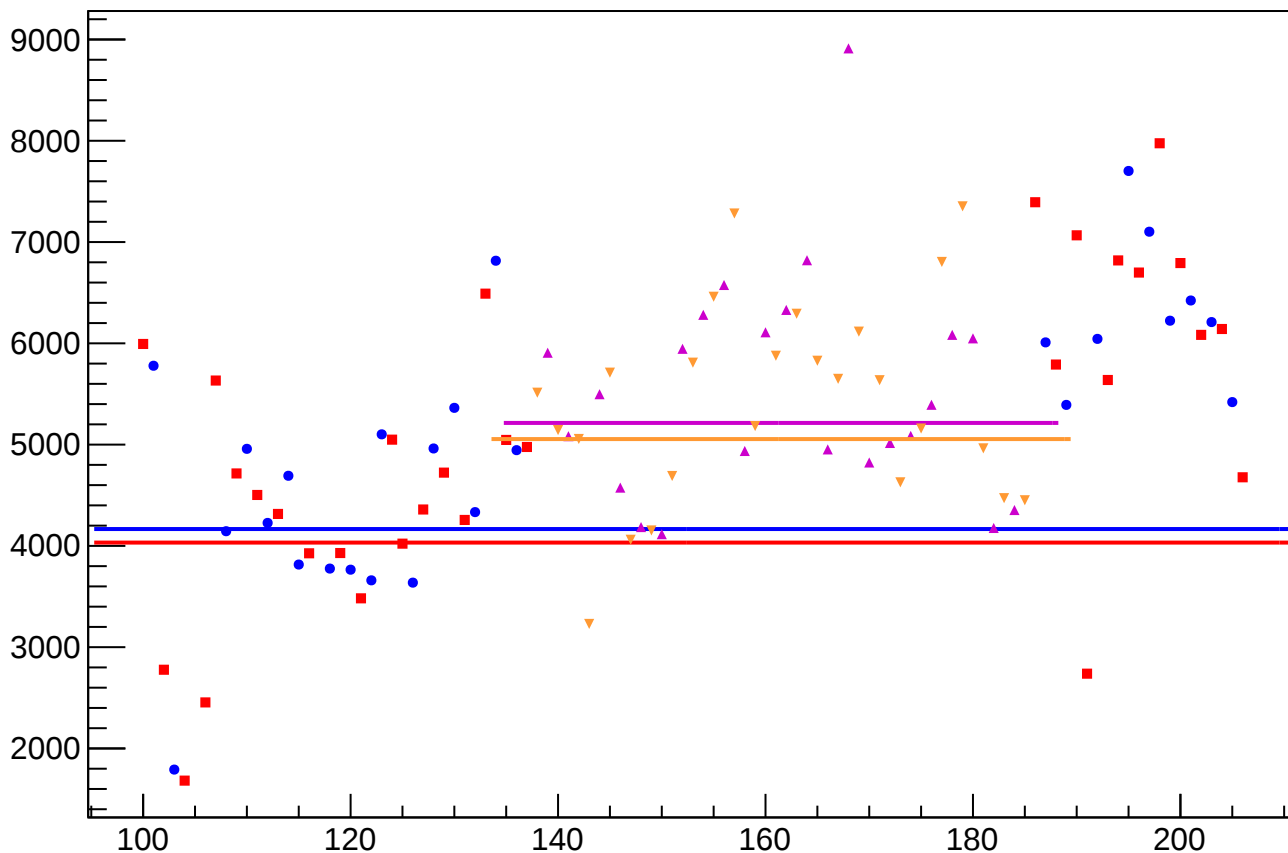
Right: 3481.313+/-851.278 χ^2/NDF : 63.3/56

In: 2836.216+/-893.631 χ^2/NDF : 41.4/48

Out: 2905.358+/-834.805 χ^2/NDF : 66.0/55

All: 2873.138+/-610.033 χ^2/NDF : 107.3/104

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4166.473+/-0.889

χ^2/NDF : 3707000.6/25

Left Out: 5054.711+/-0.853

χ^2/NDF : 1437224.7/24

Right Out: 4032.680+/-0.812

χ^2/NDF : 4618557.2/30

Left In: 5214.120+/-0.898

χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618

χ^2/NDF : 2506291.2/47

Right: 4093.553+/-0.600

χ^2/NDF : 8337895.1/56

In: 4685.155+/-0.632

χ^2/NDF : 5446649.6/48

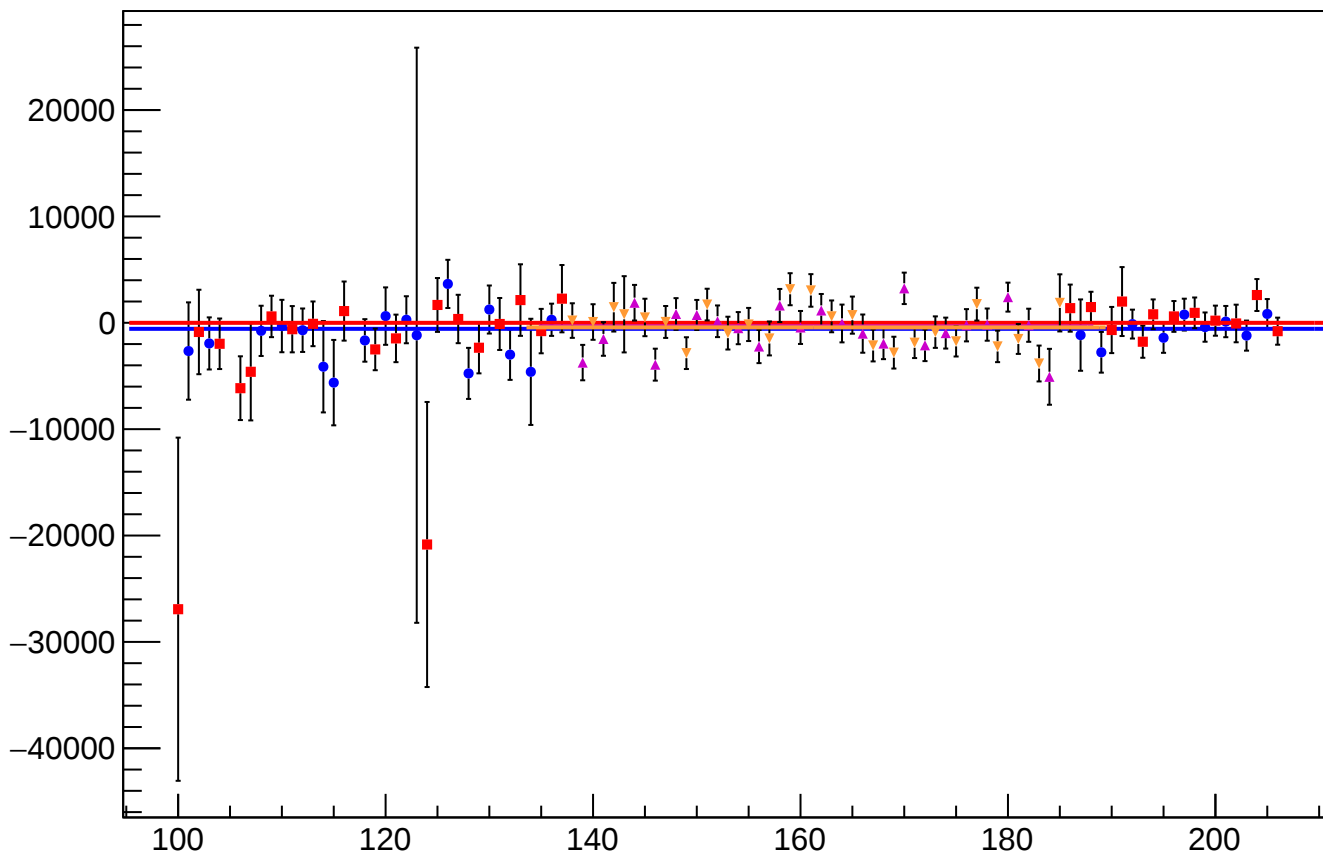
Out: 4518.876+/-0.588

χ^2/NDF : 6808510.6/55

All: 4596.084+/-0.431

χ^2/NDF : 12292253.5/1

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -568.252+/-389.807 χ^2/NDF : 16.7/25

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -4.300+/-362.925 χ^2/NDF : 23.7/30

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

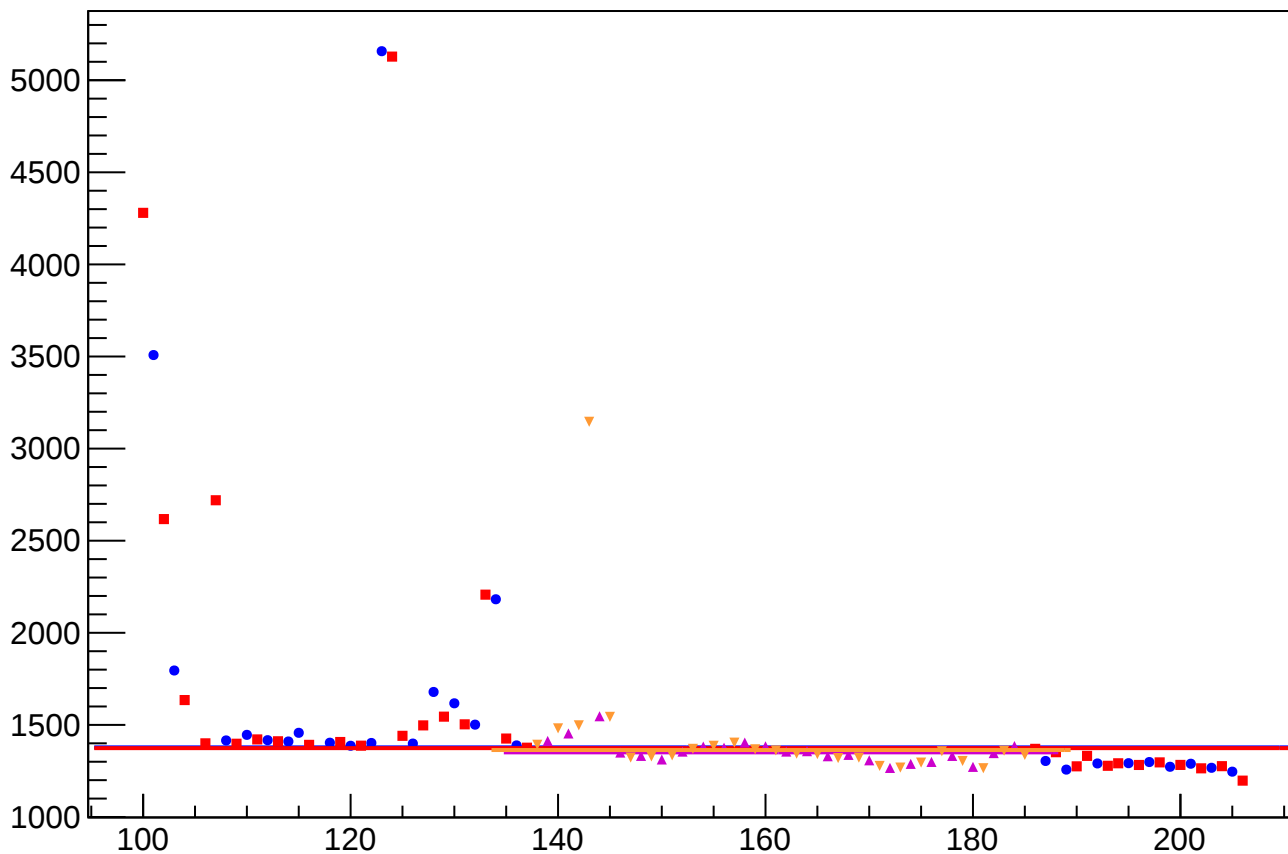
Right: -266.162+/-265.622 χ^2/NDF : 41.5/56

In: -435.594+/-249.335 χ^2/NDF : 50.7/48

Out: -244.412+/-240.251 χ^2/NDF : 57.5/55

All: -336.457+/-173.005 χ^2/NDF : 108.5/104

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1377.977+/-0.276 χ^2/NDF : 725717.0/25

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1373.836+/-0.257 χ^2/NDF : 862013.7/30

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

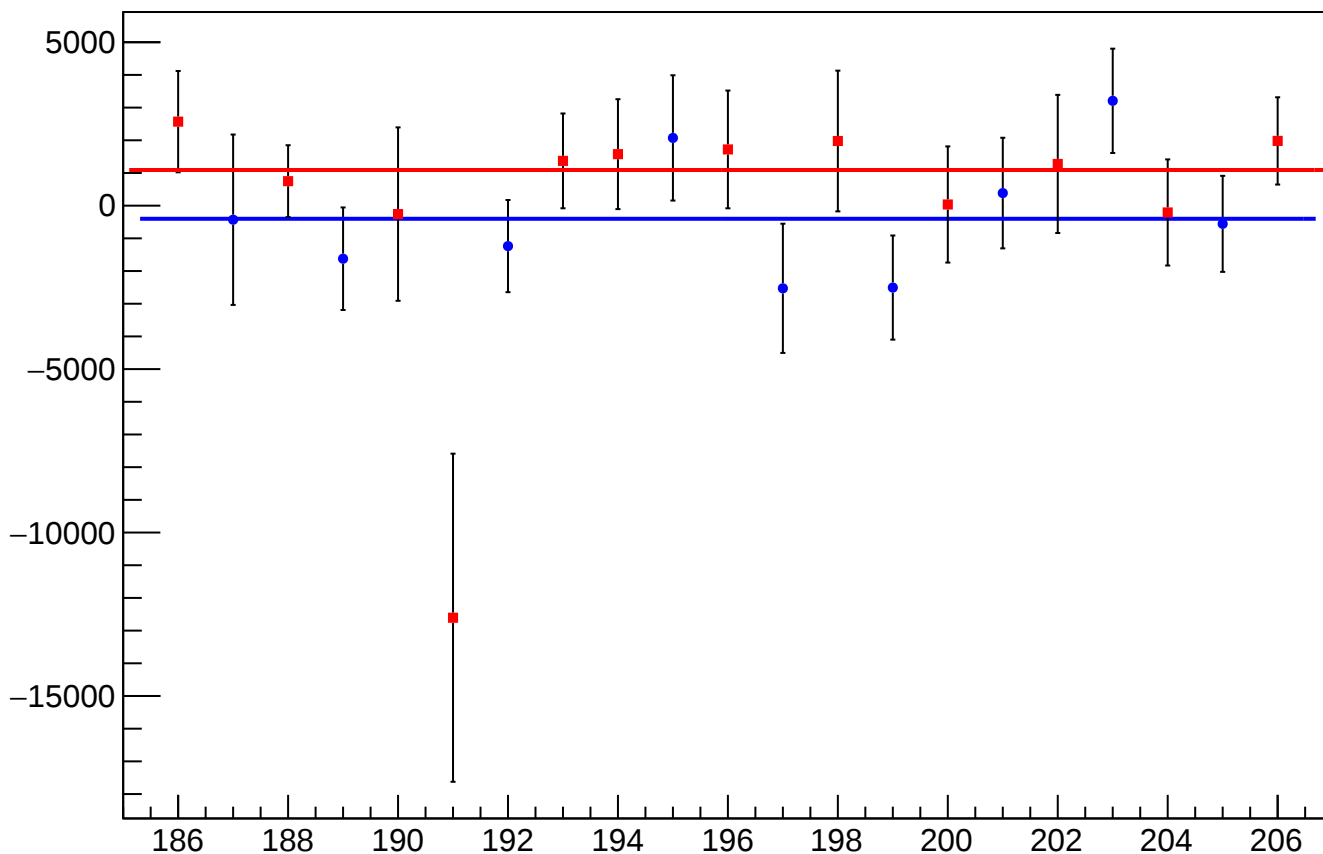
Right: 1375.759+/-0.188 χ^2/NDF : 1587851.6/56

In: 1361.983+/-0.176 χ^2/NDF : 798559.7/48

Out: 1368.064+/-0.170 χ^2/NDF : 1438140.8/55

All: 1365.136+/-0.122 χ^2/NDF : 2237317.2/100

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -401.283+/-560.338 χ^2/NDF : 10.9/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1091.282+/-484.504 χ^2/NDF : 10.6/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

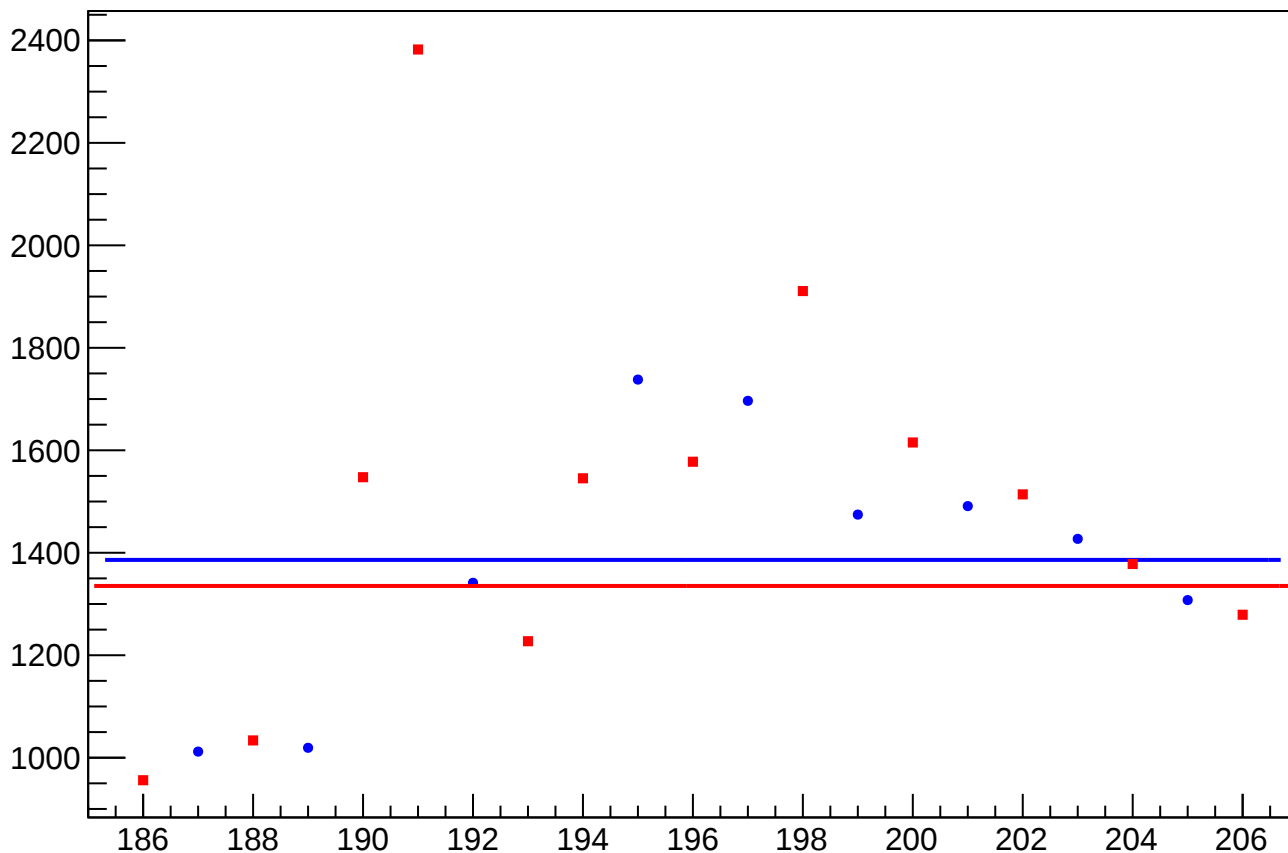
Right: 452.761+/-366.497 χ^2/NDF : 25.5/20

In: -401.283+/-560.338 χ^2/NDF : 10.9/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 452.761+/-366.497 χ^2/NDF : 25.5/20

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1386.076+/-0.396 χ^2/NDF : 290217.6/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1335.239+/-0.343 χ^2/NDF : 660359.6/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

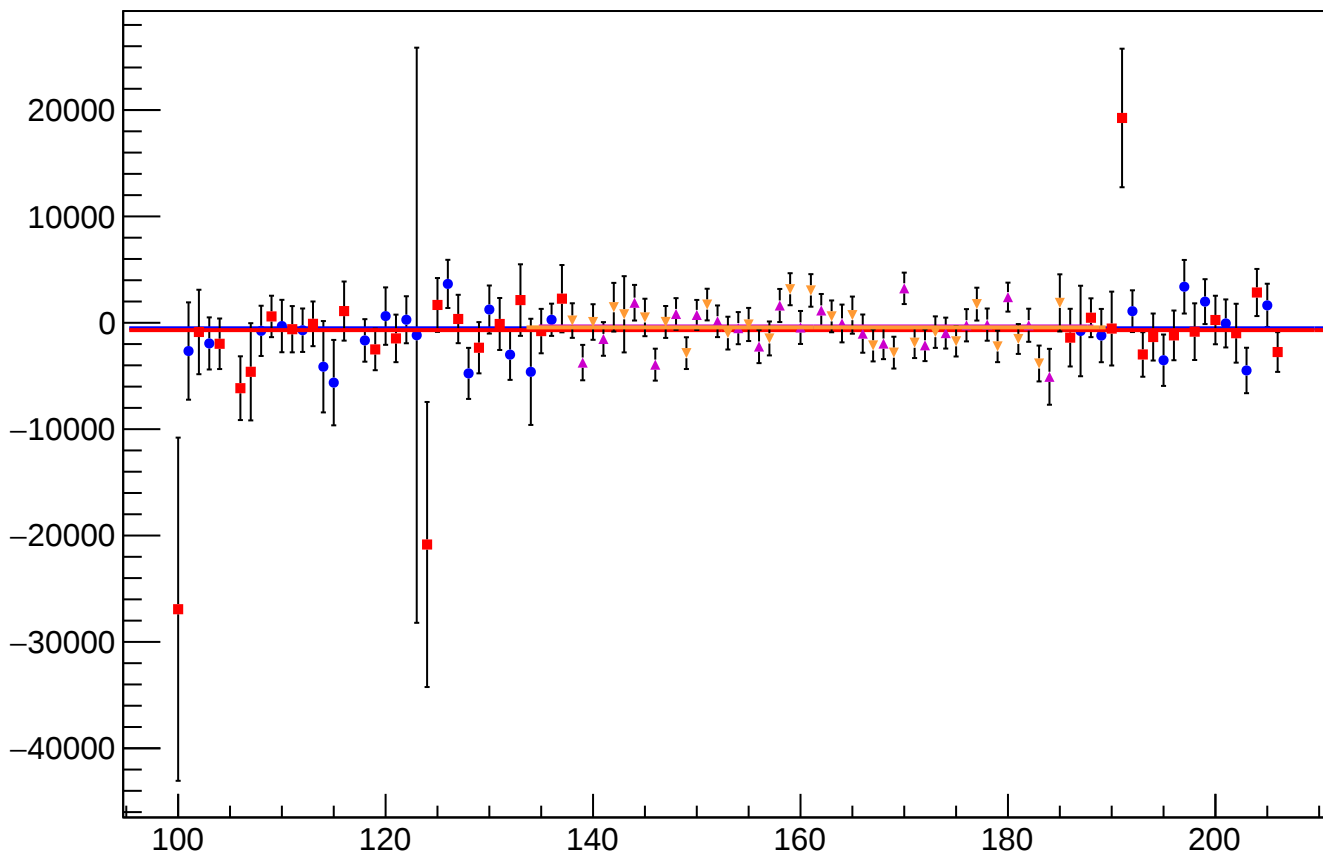
Right: 1356.987+/-0.259 χ^2/NDF : 959997.1/20

In: 1386.076+/-0.396 χ^2/NDF : 290217.6/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1356.987+/-0.259 χ^2/NDF : 959997.1/20

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -517.428+/-476.068 χ^2/NDF : 23.4/25

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -689.206+/-450.735 χ^2/NDF : 29.5/30

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

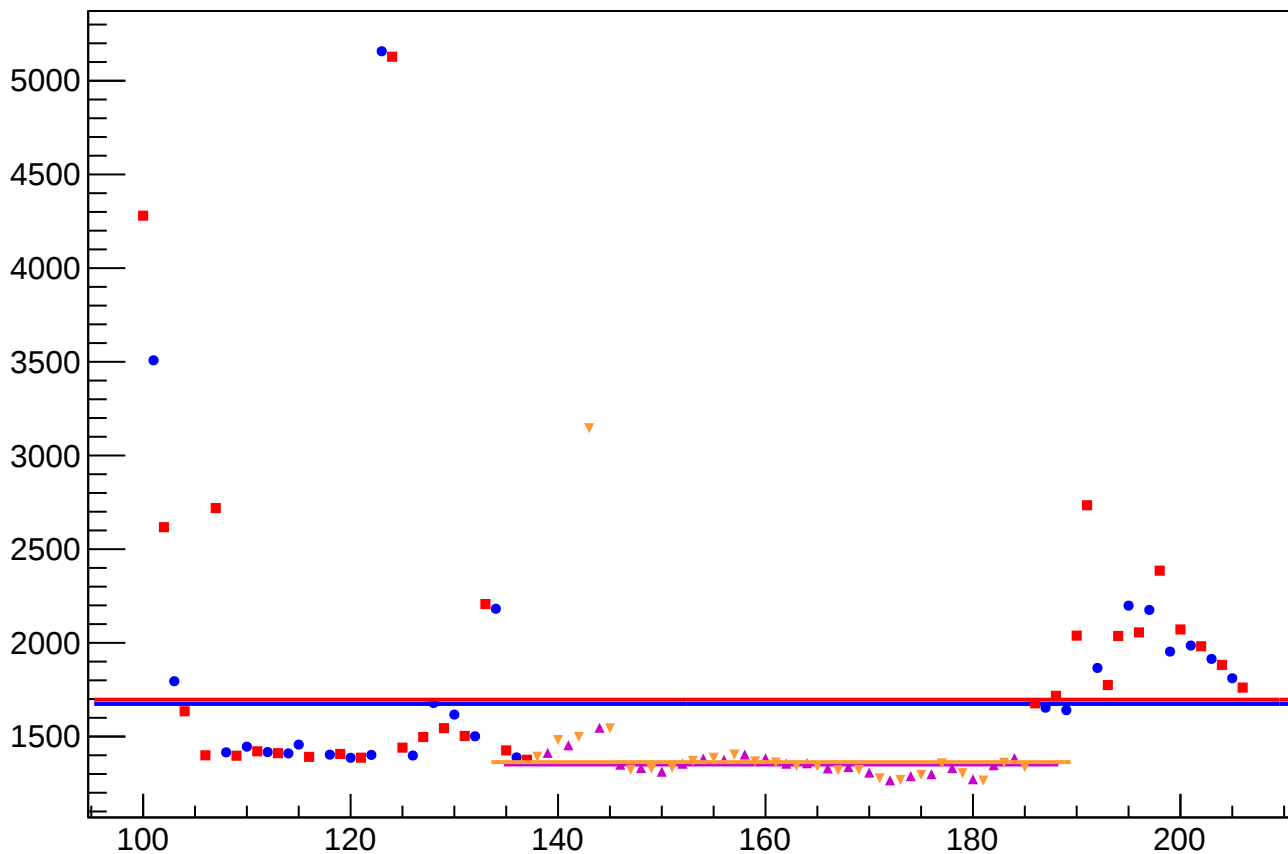
Right: -608.009+/-327.307 χ^2/NDF : 53.0/56

In: -398.806+/-268.061 χ^2/NDF : 57.3/48

Out: -518.199+/-261.221 χ^2/NDF : 62.8/55

All: -460.045+/-187.082 χ^2/NDF : 120.2/104

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1674.034+/-0.337 χ^2/NDF : 969411.5/25

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1696.634+/-0.319 χ^2/NDF : 1183462.6/30

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

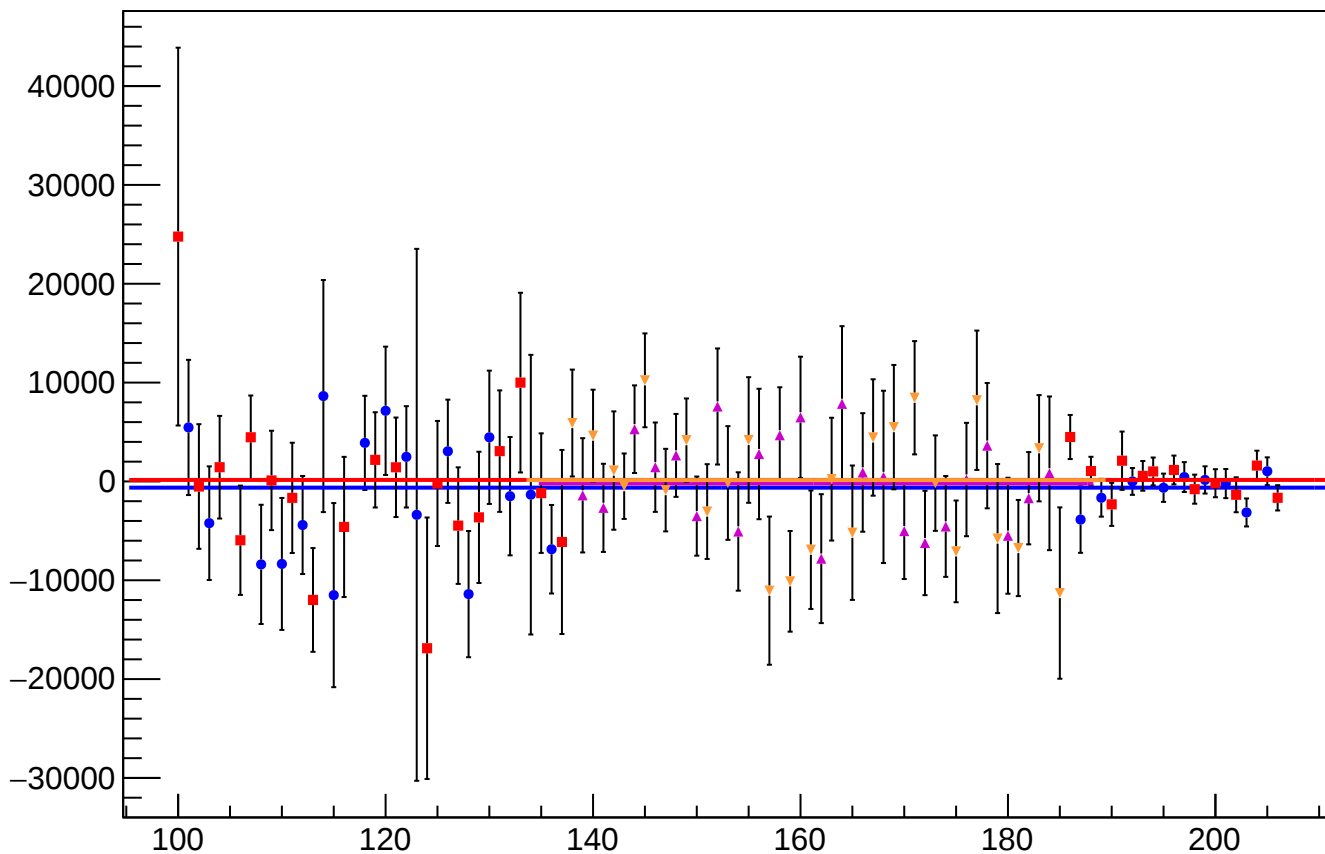
Right: 1685.951+/-0.231 χ^2/NDF : 2155250.8/56

In: 1453.356+/-0.190 χ^2/NDF : 1665805.8/48

Out: 1475.432+/-0.185 χ^2/NDF : 2483994.0/55

All: 1464.679+/-0.132 χ^2/NDF : 4156757.2/100

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -629.939 ± 484.673 χ^2/NDF : 22.2/25

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: 151.179 ± 435.109 χ^2/NDF : 25.6/30

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

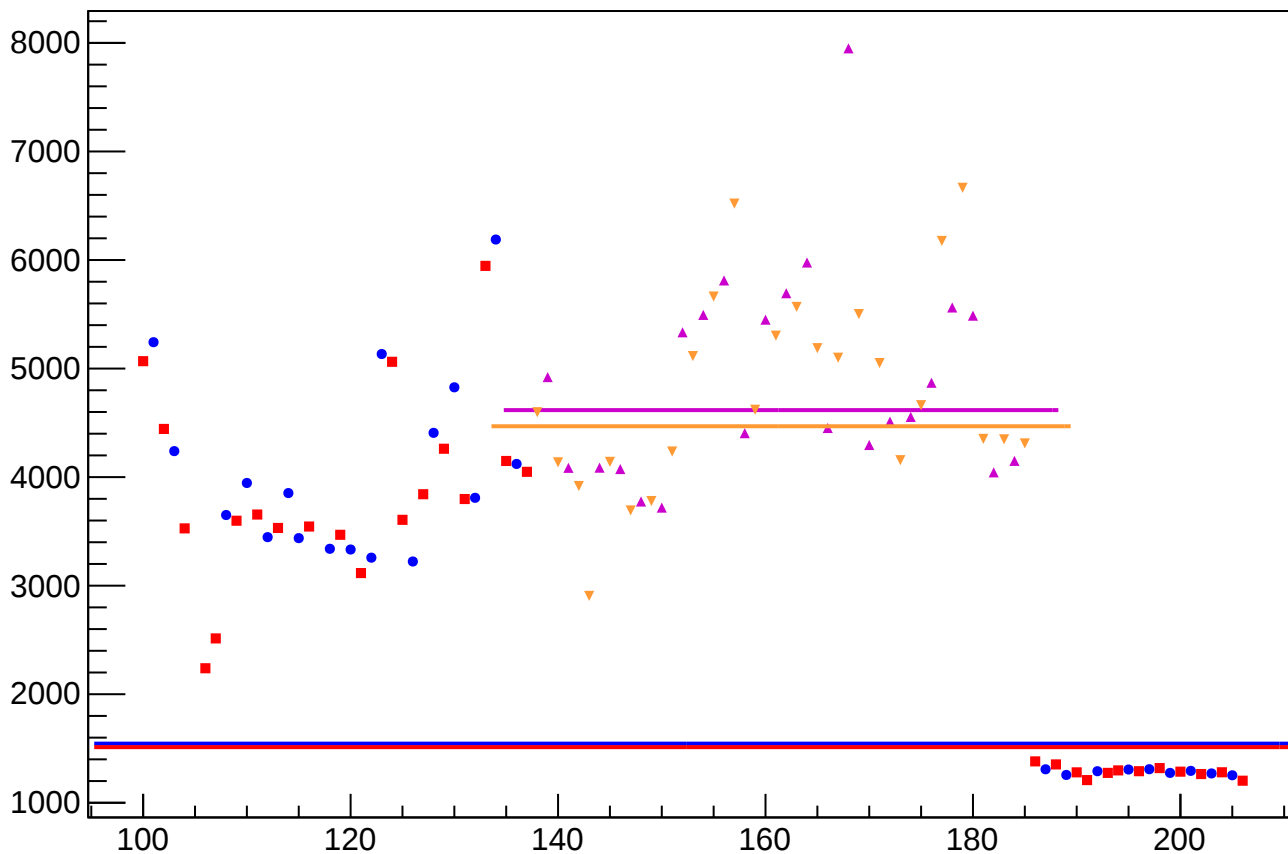
Right: -197.410 ± 323.778 χ^2/NDF : 49.2/56

In: -562.509 ± 445.028 χ^2/NDF : 37.1/48

Out: 148.459 ± 402.819 χ^2/NDF : 53.7/55

All: -171.718 ± 298.646 χ^2/NDF : 92.2/104

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1544.652 $\pm$ 0.343 χ^2 /NDF: 5447518.4/25

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF:1380601.0/24

Right Out: 1512.238 $\pm$ 0.307 χ^2 /NDF: 5397317.8/30

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

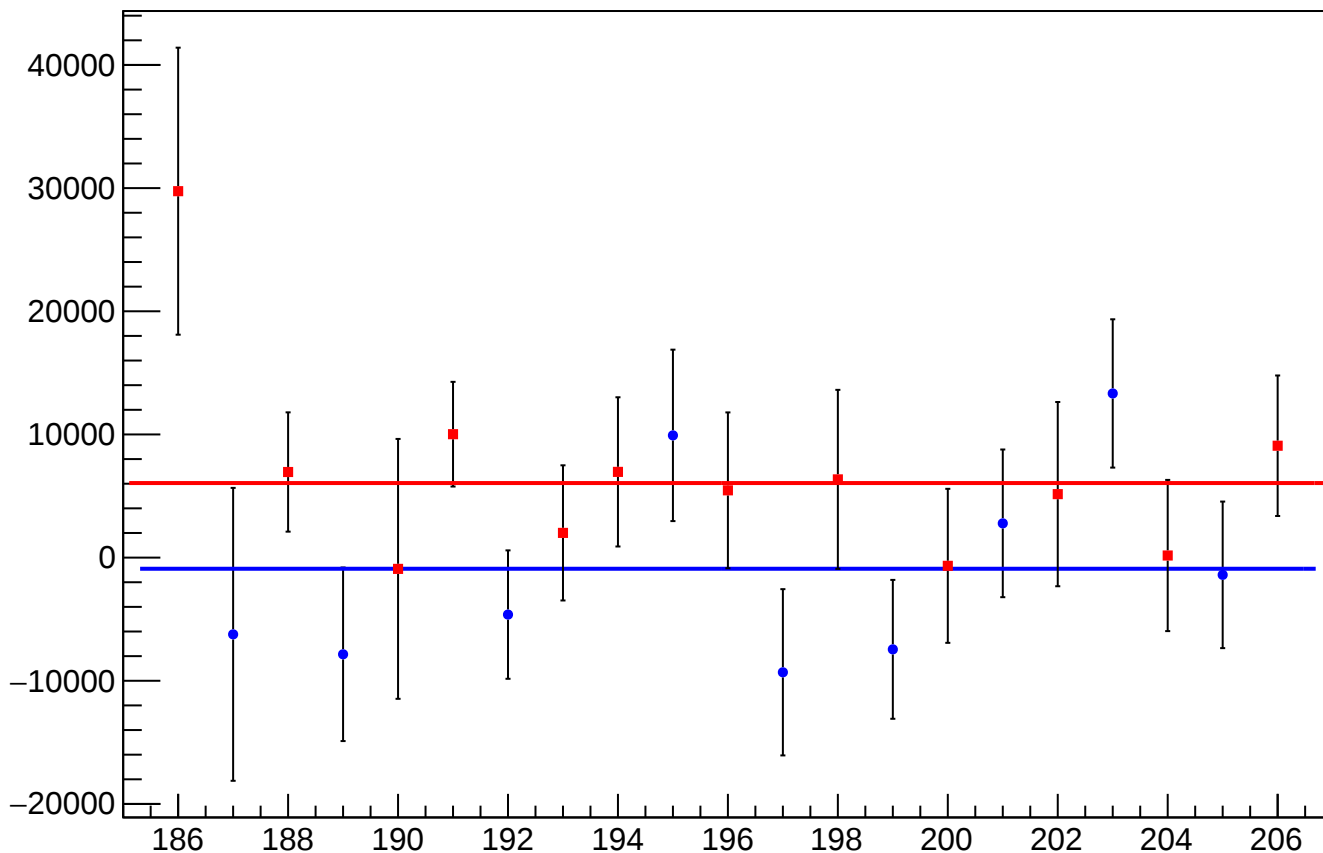
Right: 1526.689 $\pm$ 0.229 χ^2 /NDF: 10849793.6/56

In: 2026.755 $\pm$ 0.315 χ^2 /NDF:19059179.3/48

Out: 1934.069 $\pm$ 0.285 χ^2 /NDF:19976211.5/55

All: 1975.773 $\pm$ 0.211 χ^2 /NDF: 39083108.9/1

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -904.841+/-2123.751 χ^2/NDF : 13.0/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 6053.642+/-1769.234 χ^2/NDF : 8.4/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

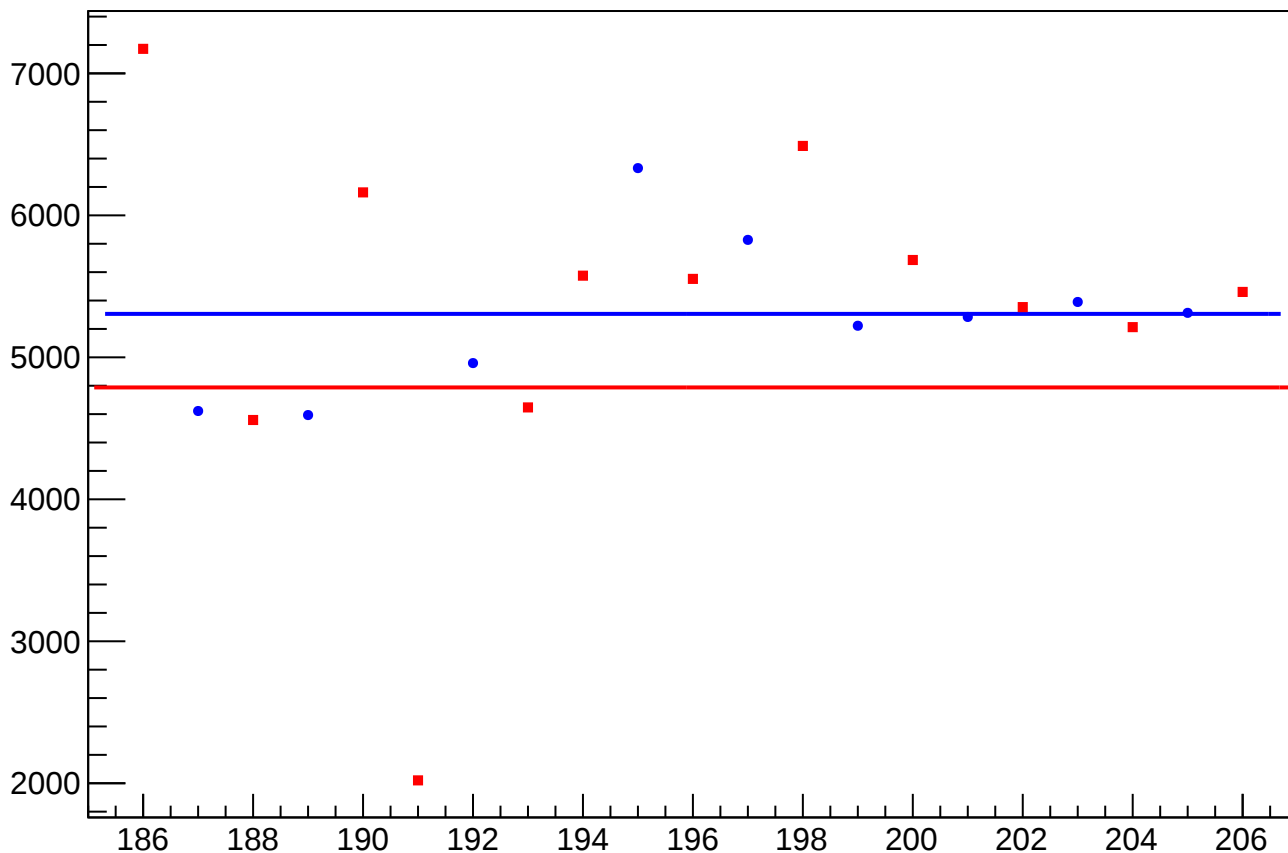
Right: 3202.868+/-1359.339 χ^2/NDF : 27.7/20

In: -904.841+/-2123.751 χ^2/NDF : 13.0/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 3202.868+/-1359.339 χ^2/NDF : 27.7/20

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5306.031+/-1.502 χ^2/NDF : 92231.3/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4787.976+/-1.251 χ^2/NDF : 1234325.6/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

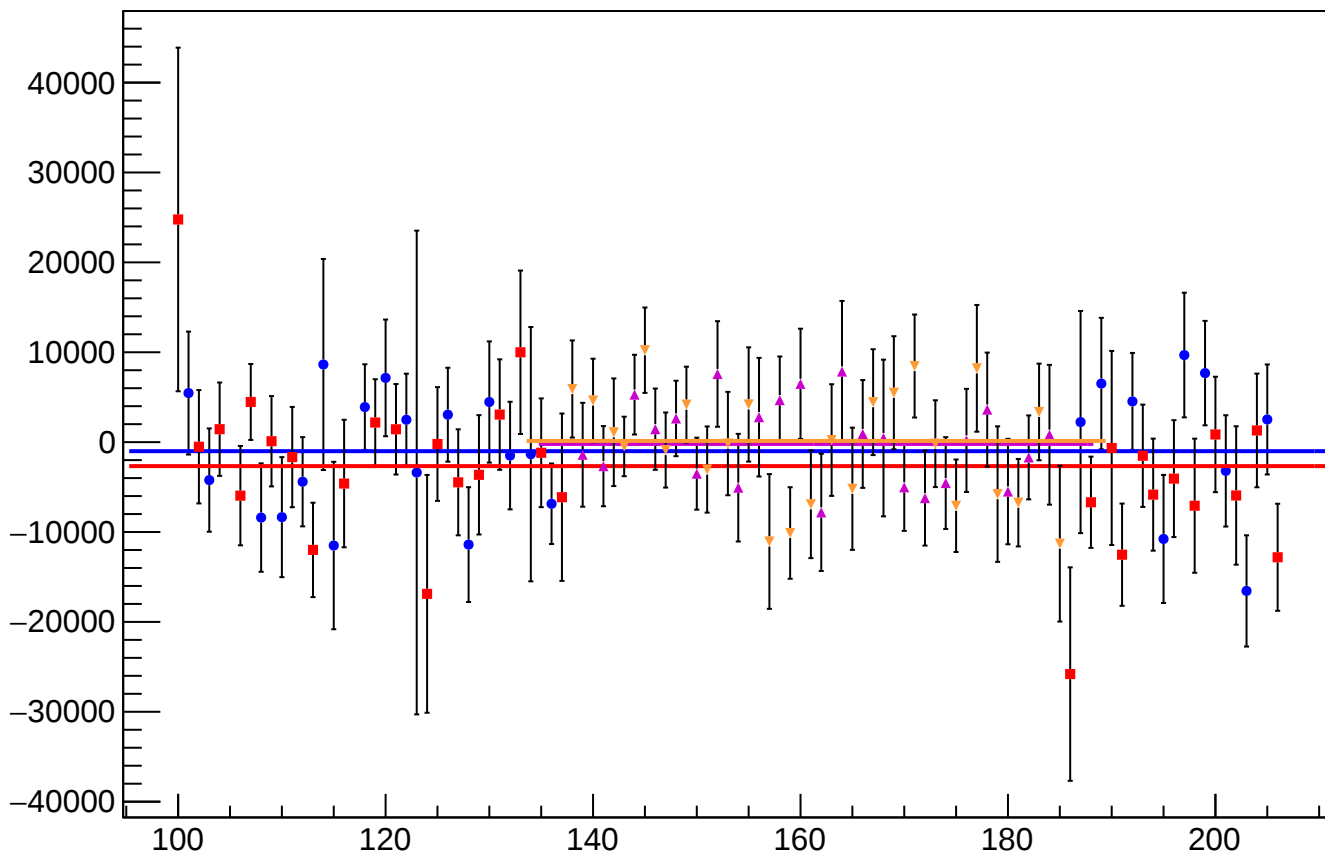
Right: 5000.214+/-0.961 χ^2/NDF : 1396808.9/20

In: 5306.031+/-1.502 χ^2/NDF : 92231.3/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5000.214+/-0.961 χ^2/NDF : 1396808.9/20

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1005.082 ± 1247.269 $\chi^2/\text{NDF}: 30.5/25$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -2668.379 ± 1116.899 $\chi^2/\text{NDF}: 27.6/30$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

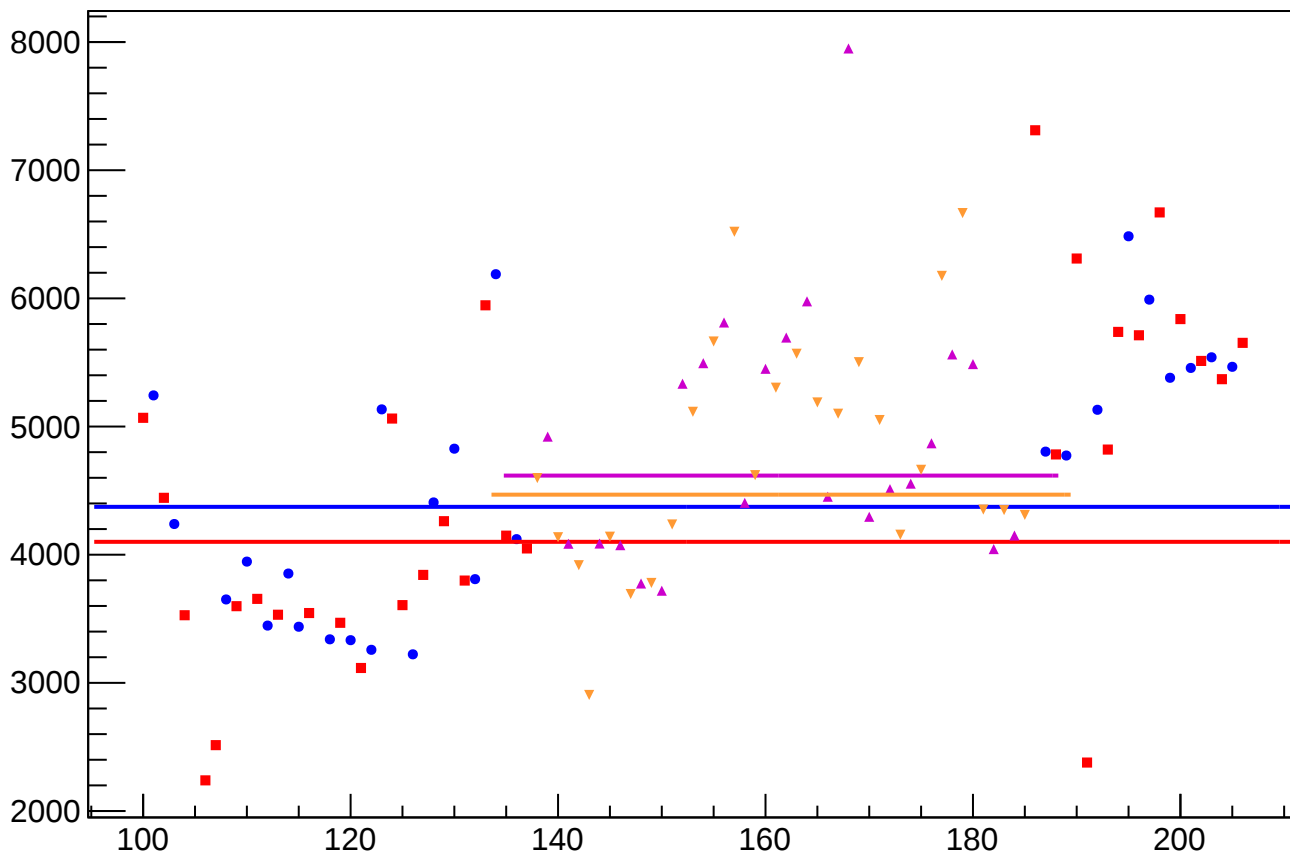
Right: -1928.174 ± 832.054 $\chi^2/\text{NDF}: 59.1/56$

In: -560.725 ± 834.772 $\chi^2/\text{NDF}: 45.5/48$

Out: -1202.255 ± 770.969 $\chi^2/\text{NDF}: 59.0/55$

All: -906.940 ± 566.372 $\chi^2/\text{NDF}: 104.8/104$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4373.413 $\pm$ 0.882 χ^2 /NDF: 1157792.9/25

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF: 1380601.0/24

Right Out: 4100.458 $\pm$ 0.785 χ^2 /NDF: 2315879.5/30

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

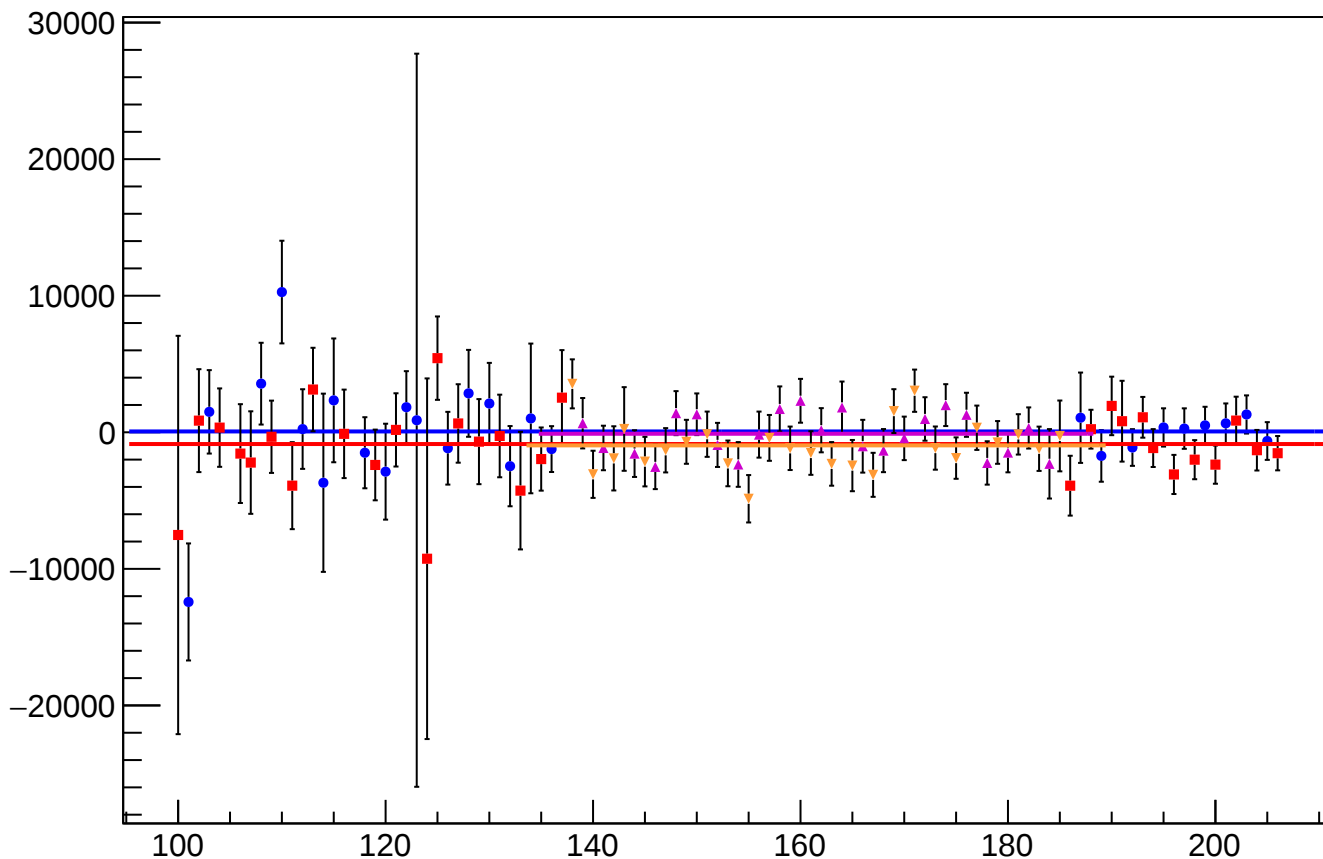
Right: 4221.120 $\pm$ 0.586 χ^2 /NDF: 3527116.0/56

In: 4508.048 $\pm$ 0.590 χ^2 /NDF: 2199607.3/48

Out: 4292.038 $\pm$ 0.544 χ^2 /NDF: 3810901.9/55

All: 4391.166 $\pm$ 0.400 χ^2 /NDF: 6082973.7/100

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 62.437 ± 418.759 $\chi^2/\text{NDF}: 25.5/25$

Left Out: -958.410 ± 339.496 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -859.862 ± 384.909 $\chi^2/\text{NDF}: 22.6/30$

Left In: -107.512 ± 343.663 $\chi^2/\text{NDF}: 19.5/22$

Left: -538.150 ± 241.520 $\chi^2/\text{NDF}: 51.1/47$

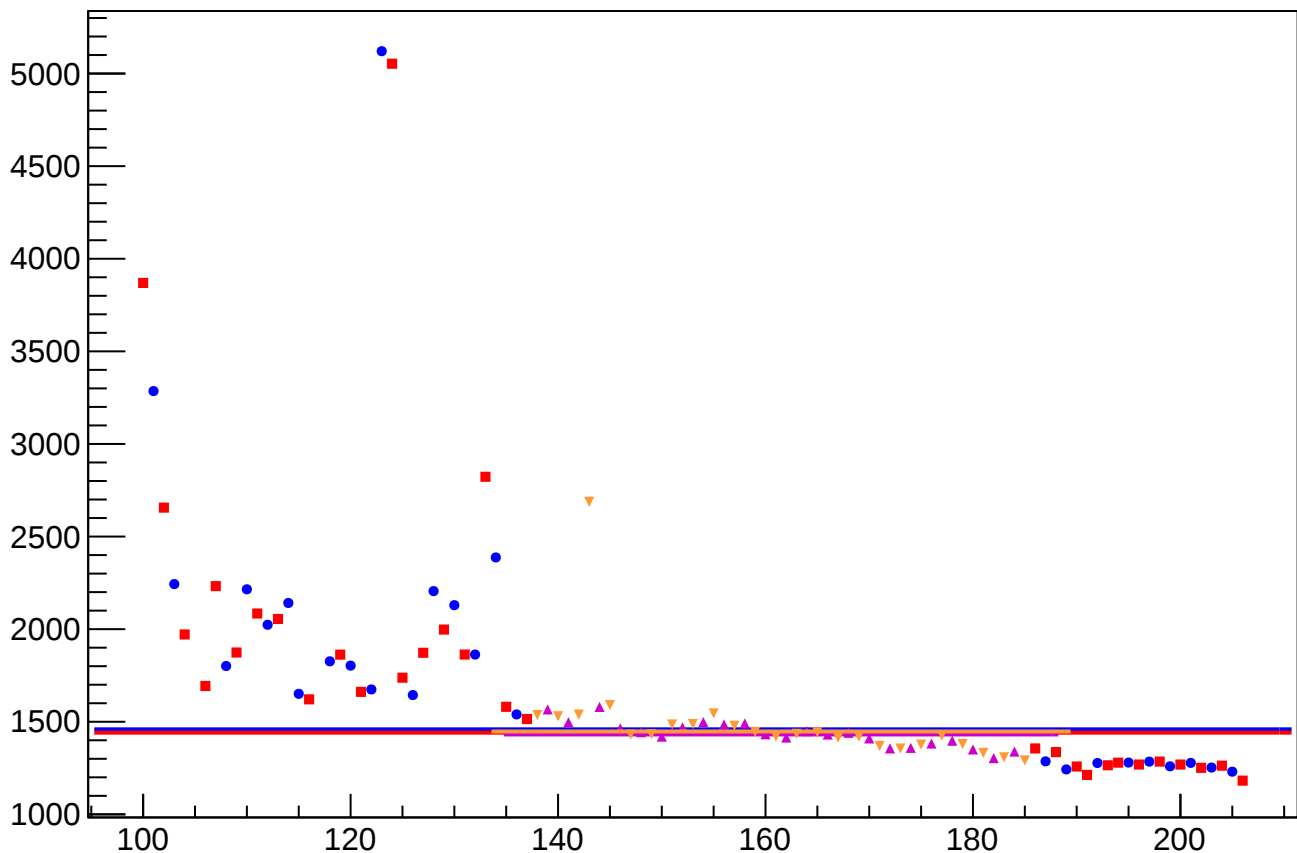
Right: -437.490 ± 283.385 $\chi^2/\text{NDF}: 50.8/56$

In: -39.116 ± 265.656 $\chi^2/\text{NDF}: 45.1/48$

Out: -915.290 ± 254.610 $\chi^2/\text{NDF}: 51.2/55$

All: -495.798 ± 183.817 $\chi^2/\text{NDF}: 101.9/104$

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1459.136+/-0.296 χ^2/NDF : 1434529.8/25

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1441.066+/-0.272 χ^2/NDF : 1565215.5/30

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

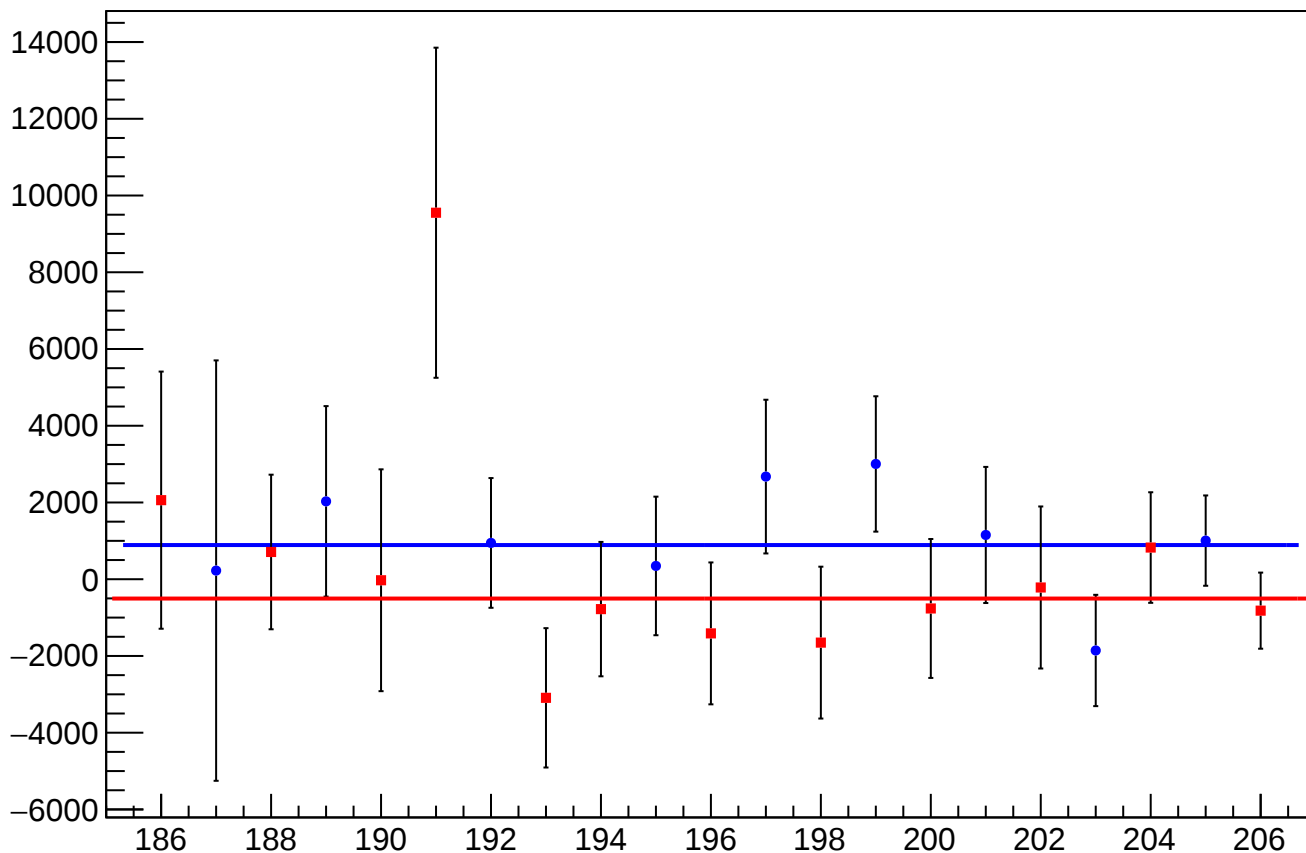
Right: 1449.341+/-0.200 χ^2/NDF : 3001763.8/56

In: 1442.595+/-0.188 χ^2/NDF : 1514882.0/48

Out: 1444.715+/-0.180 χ^2/NDF : 1984789.8/55

All: 1443.700+/-0.130 χ^2/NDF : 3499738.2/100

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 890.624+/-583.404 χ^2/NDF : 6.2/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -503.770+/-518.877 χ^2/NDF : 10.1/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

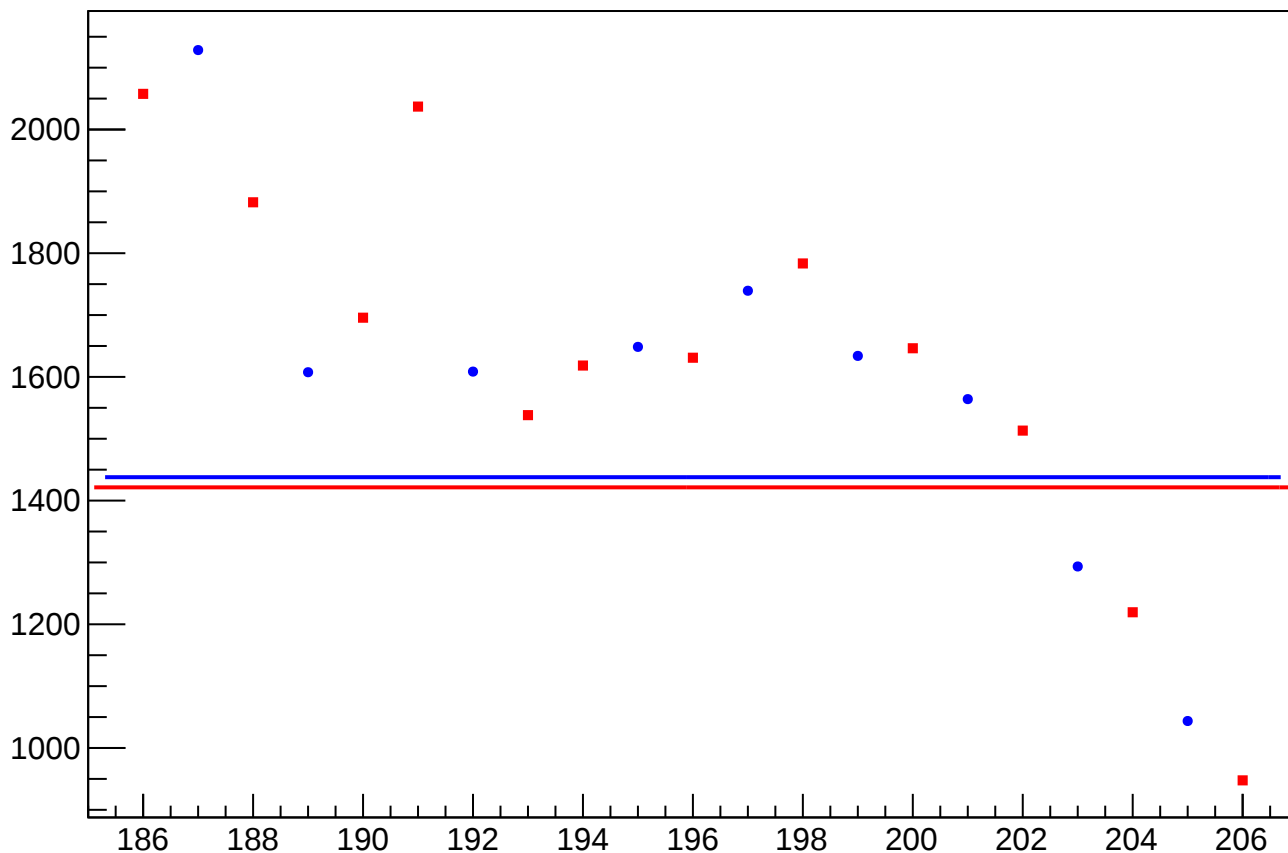
Right: 112.078+/-387.716 χ^2/NDF : 19.4/20

In: 890.624+/-583.404 χ^2/NDF : 6.2/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 112.078+/-387.716 χ^2/NDF : 19.4/20

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1437.844+/-0.413 χ^2/NDF : 413149.1/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1421.407+/-0.367 χ^2/NDF : 892334.8/11

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

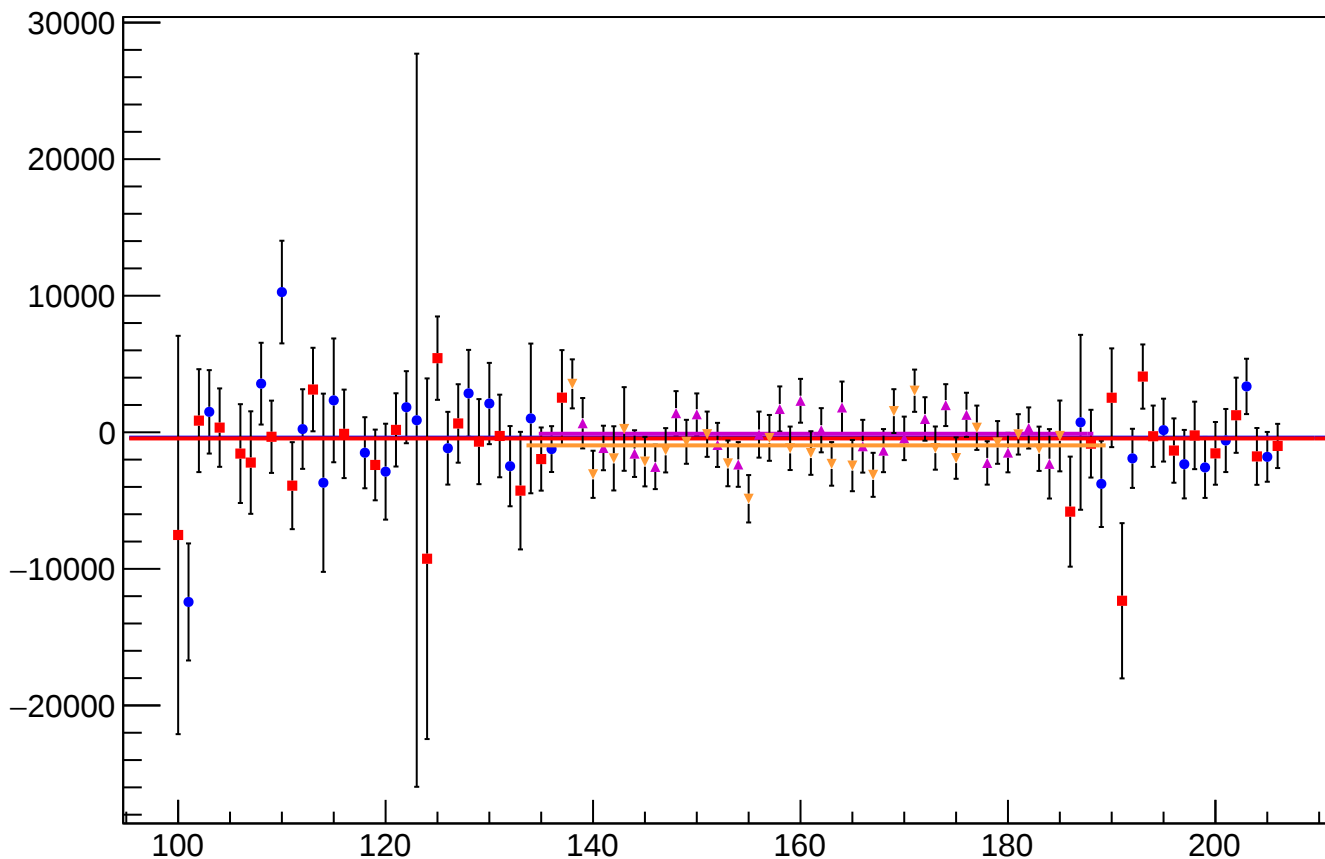
Right: 1428.666+/-0.274 χ^2/NDF : 1306370.3/20

In: 1437.844+/-0.413 χ^2/NDF : 413149.1/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1428.666+/-0.274 χ^2/NDF : 1306370.3/20

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -391.356 ± 543.718 χ^2/NDF : 30.1/25

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -450.852 ± 510.631 χ^2/NDF : 22.0/30

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

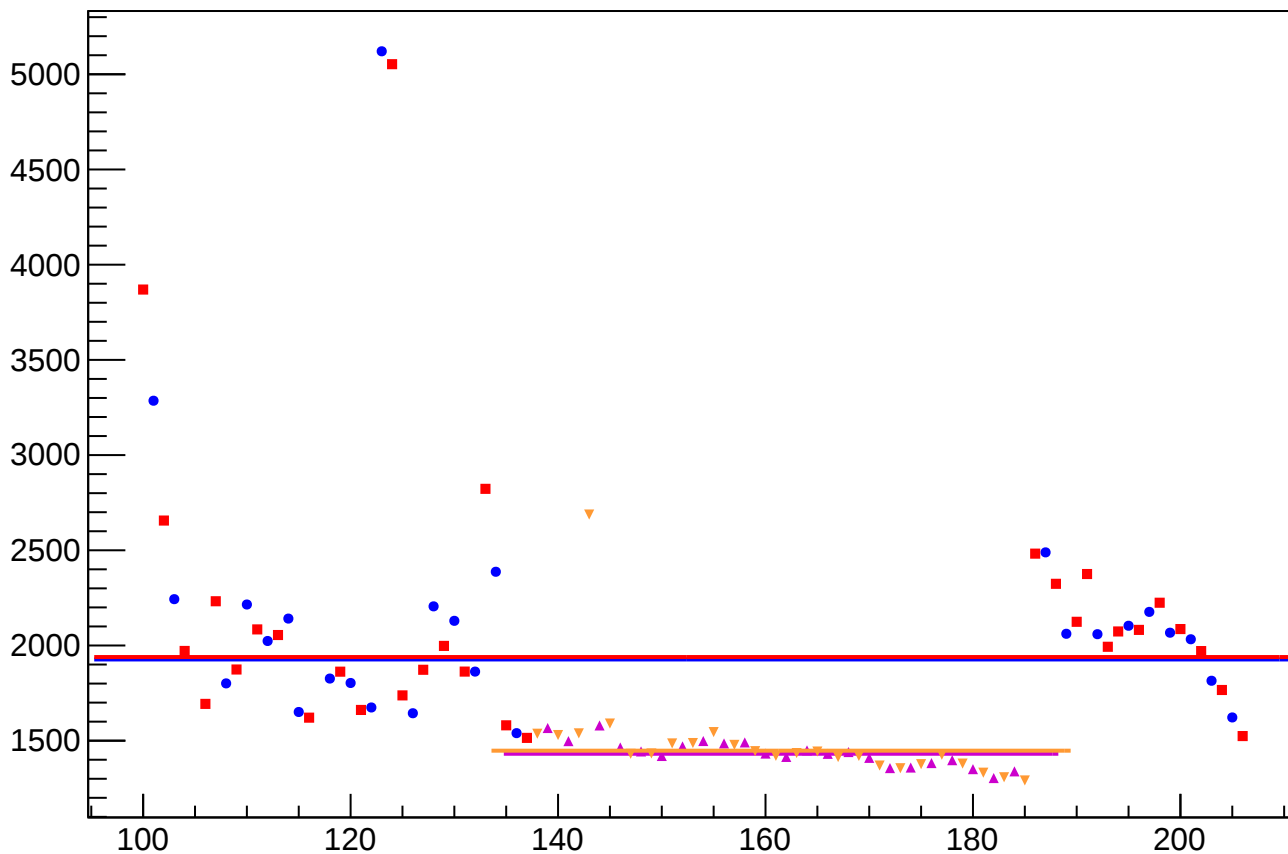
Right: -422.969 ± 372.218 χ^2/NDF : 52.1/56

In: -188.538 ± 290.500 χ^2/NDF : 49.7/48

Out: -802.826 ± 282.714 χ^2/NDF : 51.2/55

All: -504.024 ± 202.606 χ^2/NDF : 103.3/104

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1926.641 $\pm$ 0.384 χ^2 /NDF: 602580.9/25

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF:419254.7/24

Right Out: 1939.291 $\pm$ 0.361 χ^2 /NDF: 762465.5/30

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

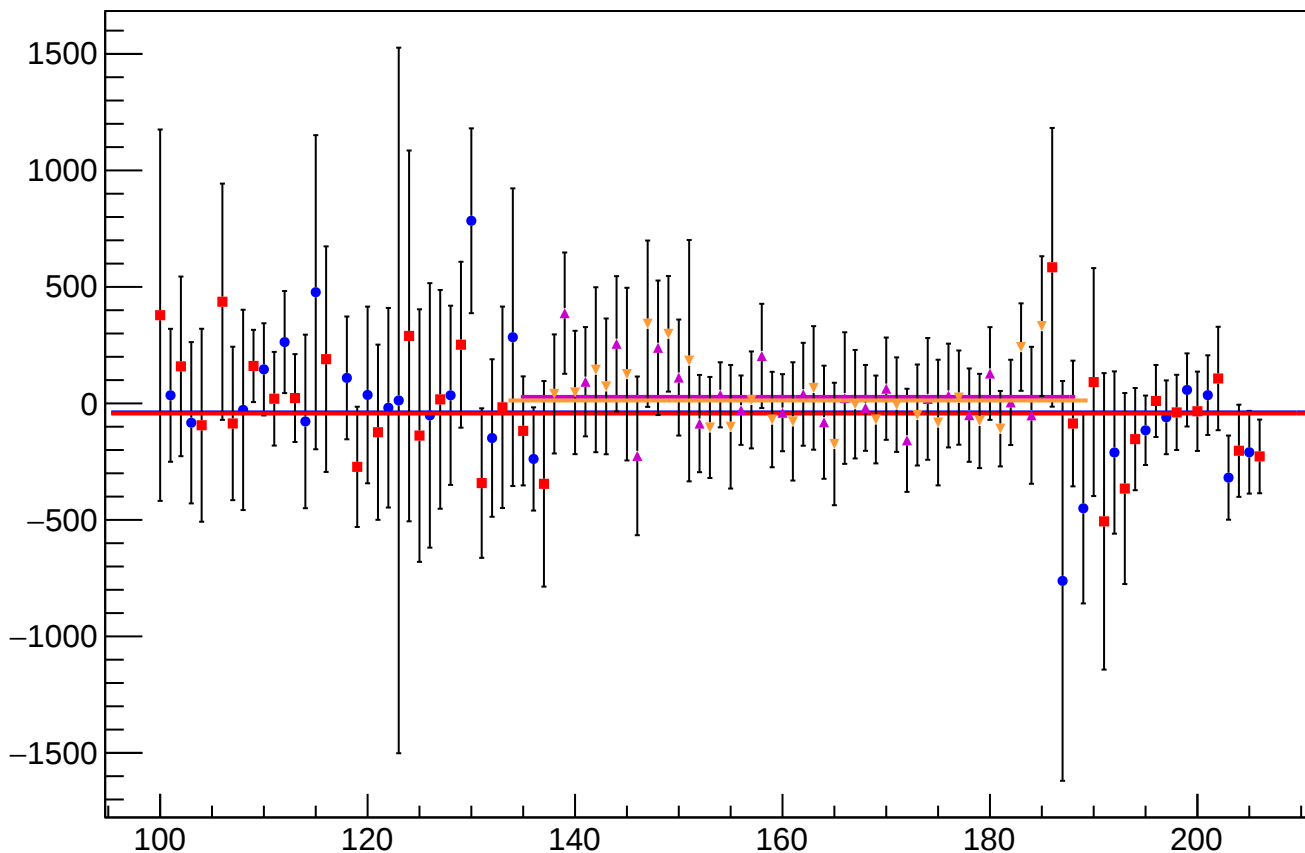
Right: 1933.363 $\pm$ 0.263 χ^2 /NDF: 1365621.5/56

In: 1572.812 $\pm$ 0.205 χ^2 /NDF:1863064.5/48

Out: 1598.291 $\pm$ 0.200 χ^2 /NDF:2467926.6/55

All: 1585.897 $\pm$ 0.143 χ^2 /NDF: 4338892.9/100

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -38.734 ± 50.342 $\chi^2/\text{NDF}: 15.5/25$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -43.358 ± 46.908 $\chi^2/\text{NDF}: 12.0/30$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

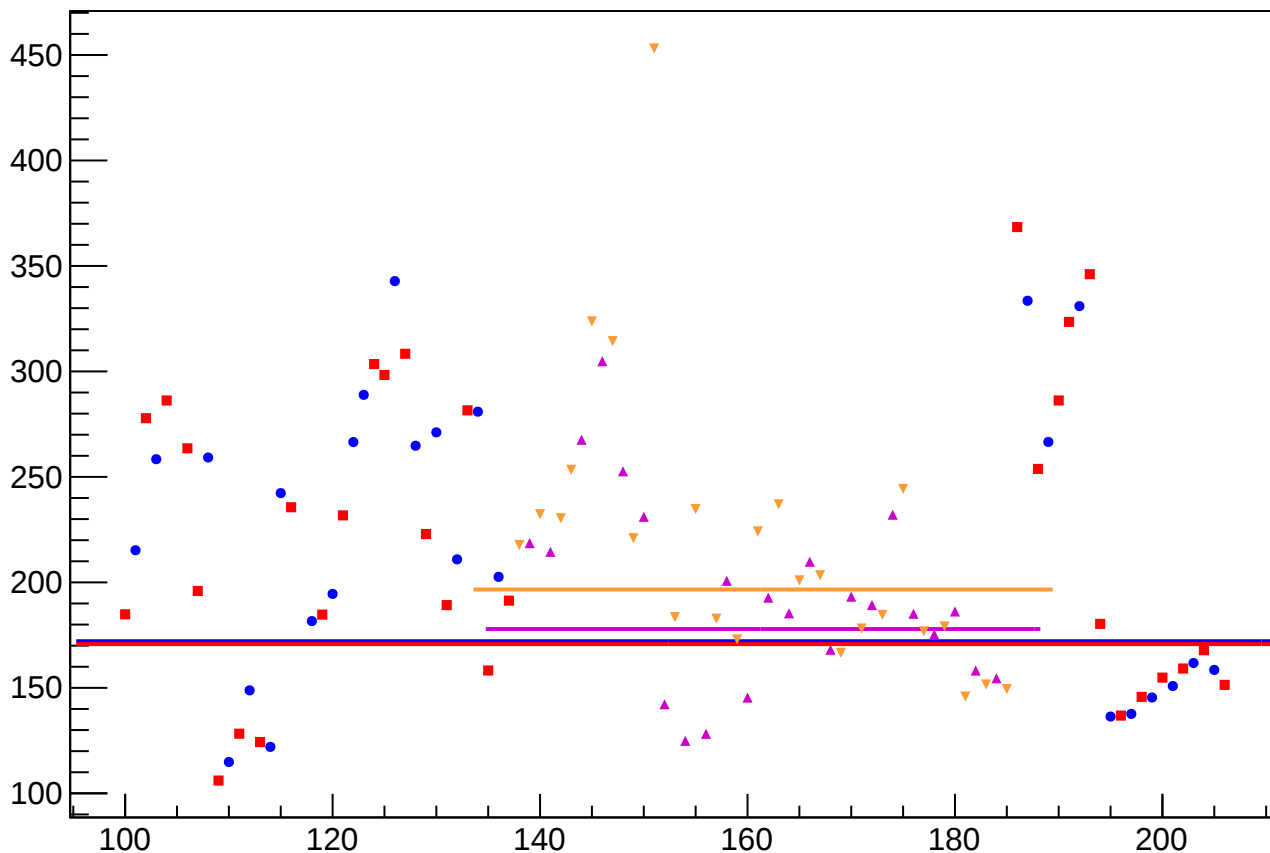
Right: -41.209 ± 34.319 $\chi^2/\text{NDF}: 27.5/56$

In: -1.334 ± 33.351 $\chi^2/\text{NDF}: 23.0/48$

Out: -15.712 ± 33.372 $\chi^2/\text{NDF}: 20.4/55$

All: -8.519 ± 23.590 $\chi^2/\text{NDF}: 43.5/104$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.099 $\pm$ 0.036 χ^2 /NDF: 2073145.6/25

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 170.734 $\pm$ 0.033 χ^2 /NDF: 2773915.4/30

Left In: 177.878 $\pm$ 0.031 χ^2 /NDF:1644086.7/22

Left: 186.646 $\pm$ 0.023 χ^2 /NDF: 3603390.3/47

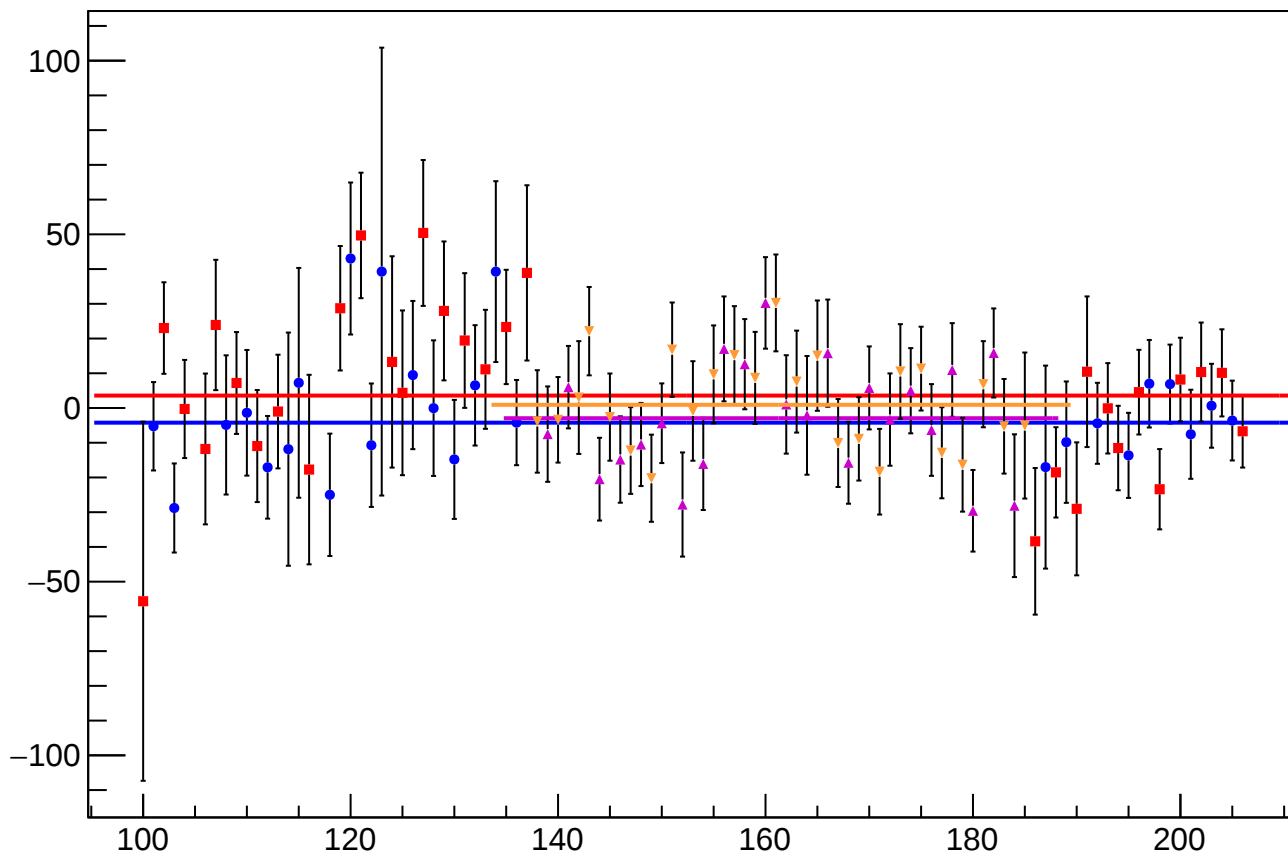
Right: 171.369 $\pm$ 0.024 χ^2 /NDF: 4847847.8/56

In: 175.342 $\pm$ 0.024 χ^2 /NDF:3732018.4/48

Out: 183.519 $\pm$ 0.024 χ^2 /NDF:4868207.7/55

All: 179.428 $\pm$ 0.017 χ^2 /NDF: 8660304.3/104

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223 ± 3.077 $\chi^2/\text{NDF}: 18.2/25$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 3.579 ± 2.862 $\chi^2/\text{NDF}: 44.6/30$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

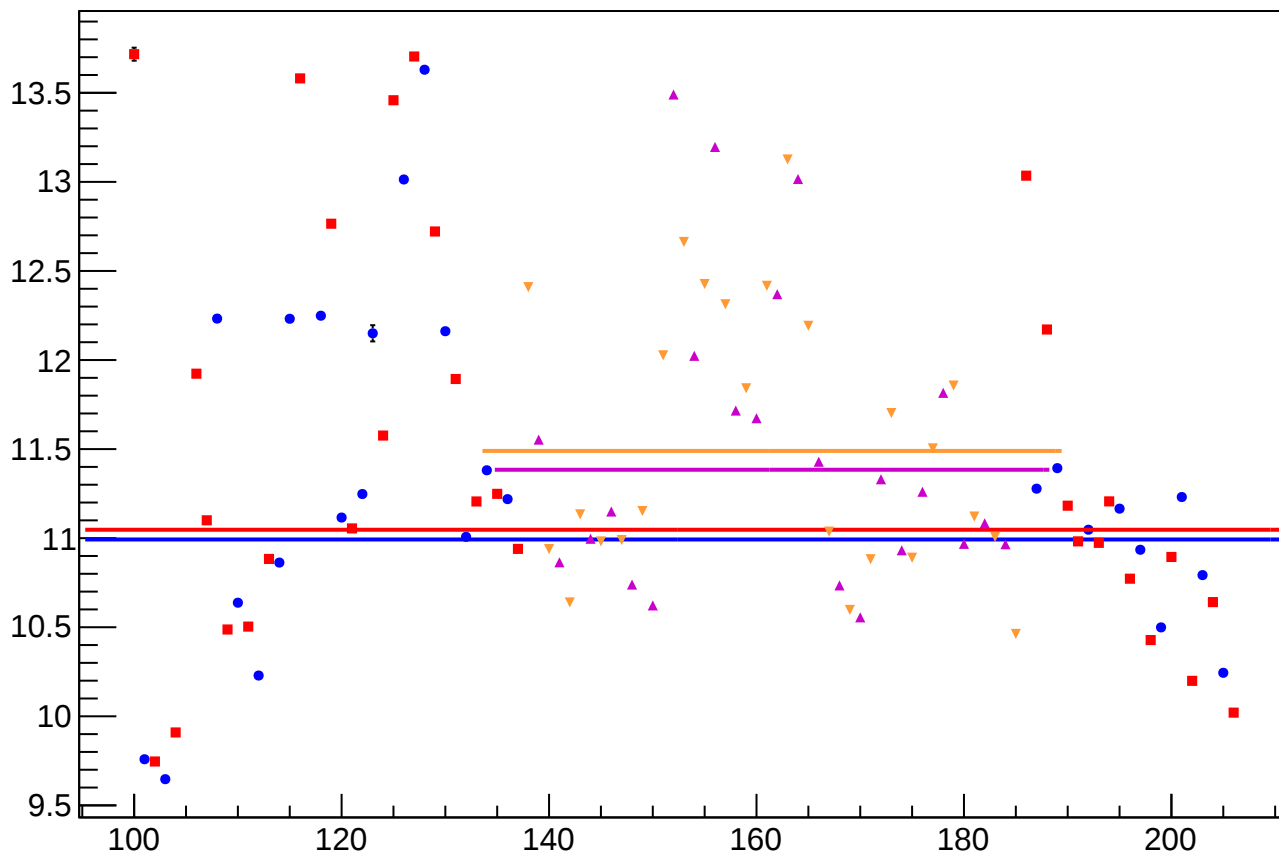
Right: -0.040 ± 2.096 $\chi^2/\text{NDF}: 66.2/56$

In: -3.509 ± 2.048 $\chi^2/\text{NDF}: 49.3/48$

Out: 2.170 ± 1.963 $\chi^2/\text{NDF}: 69.1/55$

All: -0.548 ± 1.417 $\chi^2/\text{NDF}: 122.4/104$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.993 $\pm$ 0.002 χ^2 /NDF: 148824.5/25

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 11.047 $\pm$ 0.002 χ^2 /NDF: 222500.8/30

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

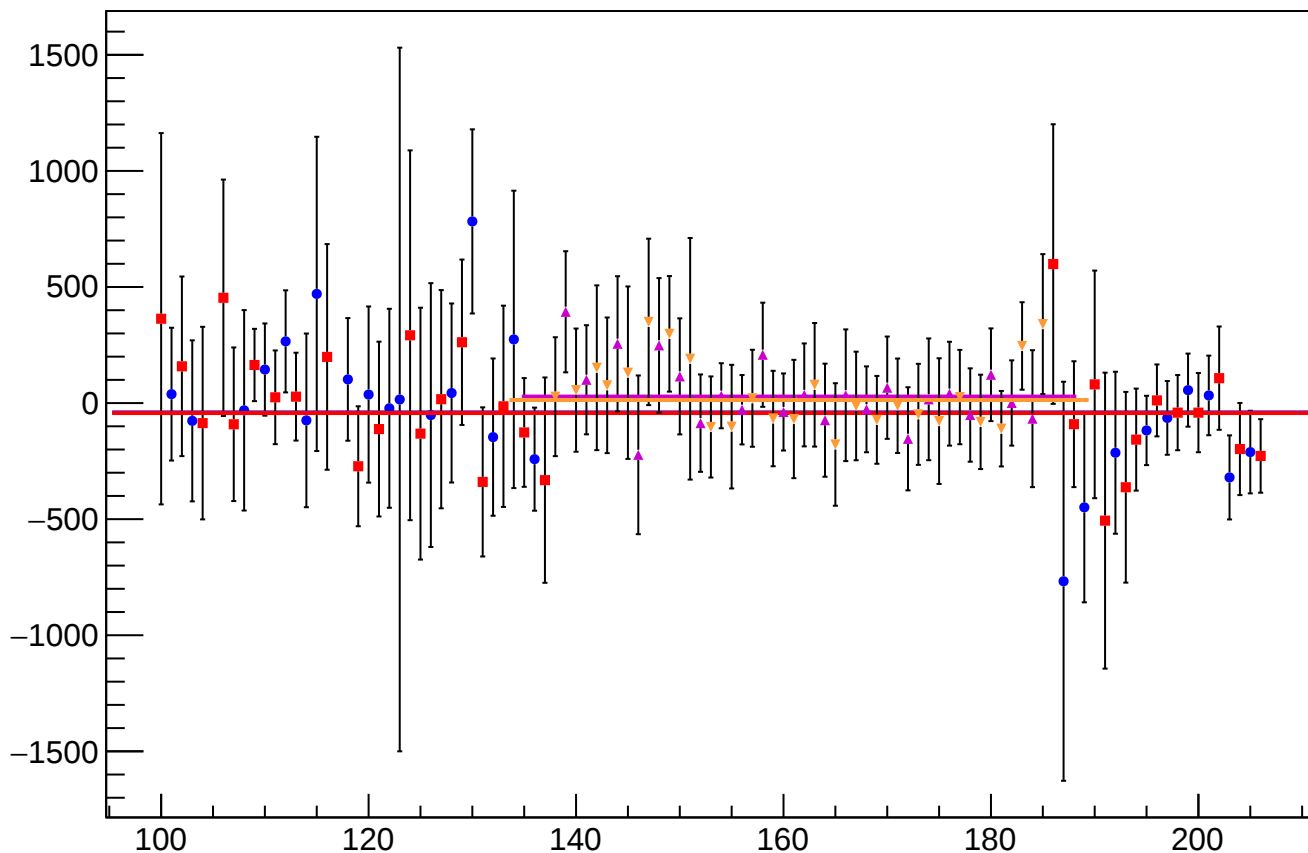
Right: 11.022 $\pm$ 0.001 χ^2 /NDF: 371663.4/56

In: 11.211 $\pm$ 0.001 χ^2 /NDF:316648.4/48

Out: 11.282 $\pm$ 0.001 χ^2 /NDF:380225.8/55

All: 11.248 $\pm$ 0.001 χ^2 /NDF: 698130.7/104

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -40.293 ± 50.472 χ^2/NDF : 15.4/25

Left Out: 13.323 ± 47.662 χ^2/NDF : 7.9/24

Right Out: -42.881 ± 47.035 χ^2/NDF : 12.2/30

Left In: 28.050 ± 44.681 χ^2/NDF : 6.6/22

Left: 21.161 ± 32.597 χ^2/NDF : 14.6/47

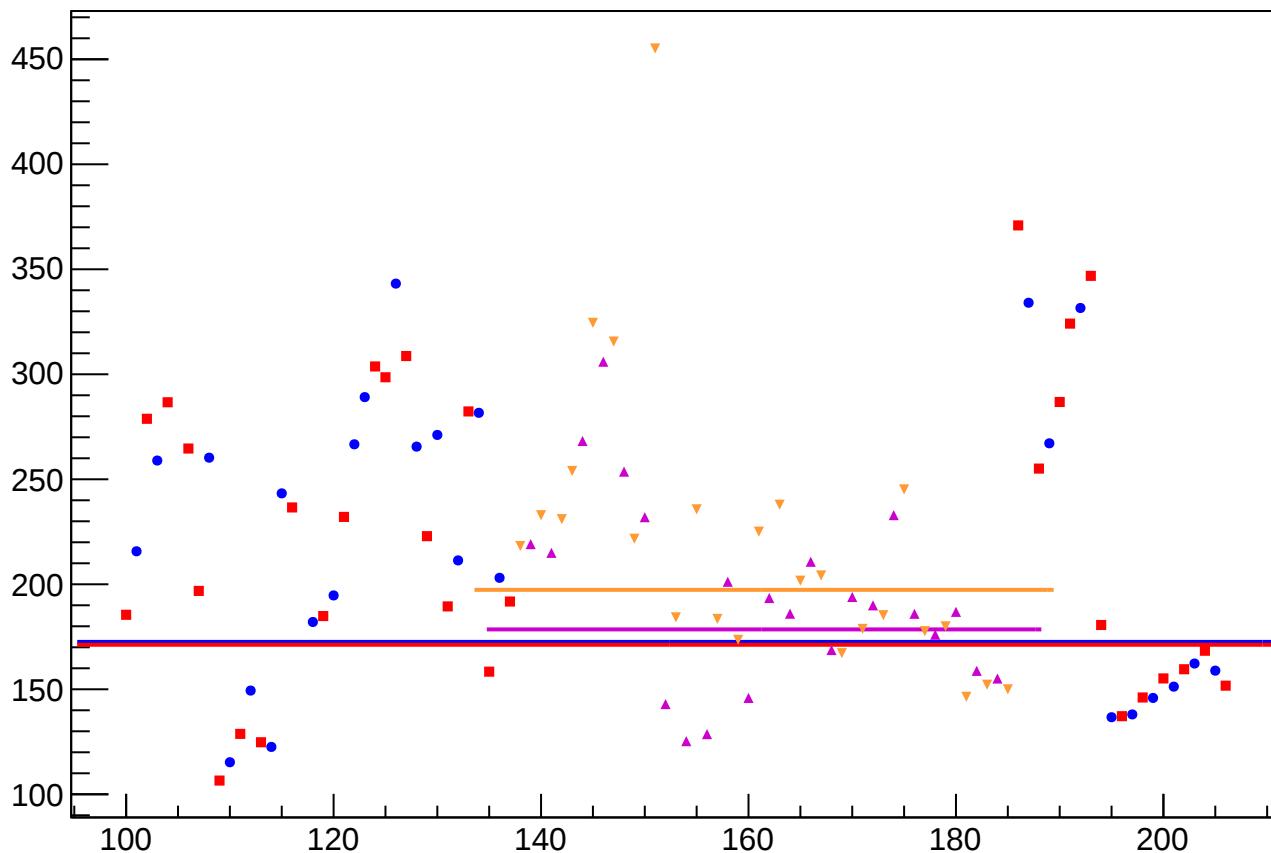
Right: -41.678 ± 34.410 χ^2/NDF : 27.6/56

In: -1.978 ± 33.455 χ^2/NDF : 23.1/48

Out: -15.152 ± 33.478 χ^2/NDF : 20.7/55

All: -8.560 ± 23.665 χ^2/NDF : 43.9/104

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.564 $\pm$ 0.036 χ^2 /NDF: 2067862.4/25

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 171.207 $\pm$ 0.033 χ^2 /NDF: 2770280.3/30

Left In: 178.512 $\pm$ 0.032 χ^2 /NDF:1642304.1/22

Left: 187.326 $\pm$ 0.023 χ^2 /NDF: 3599509.2/47

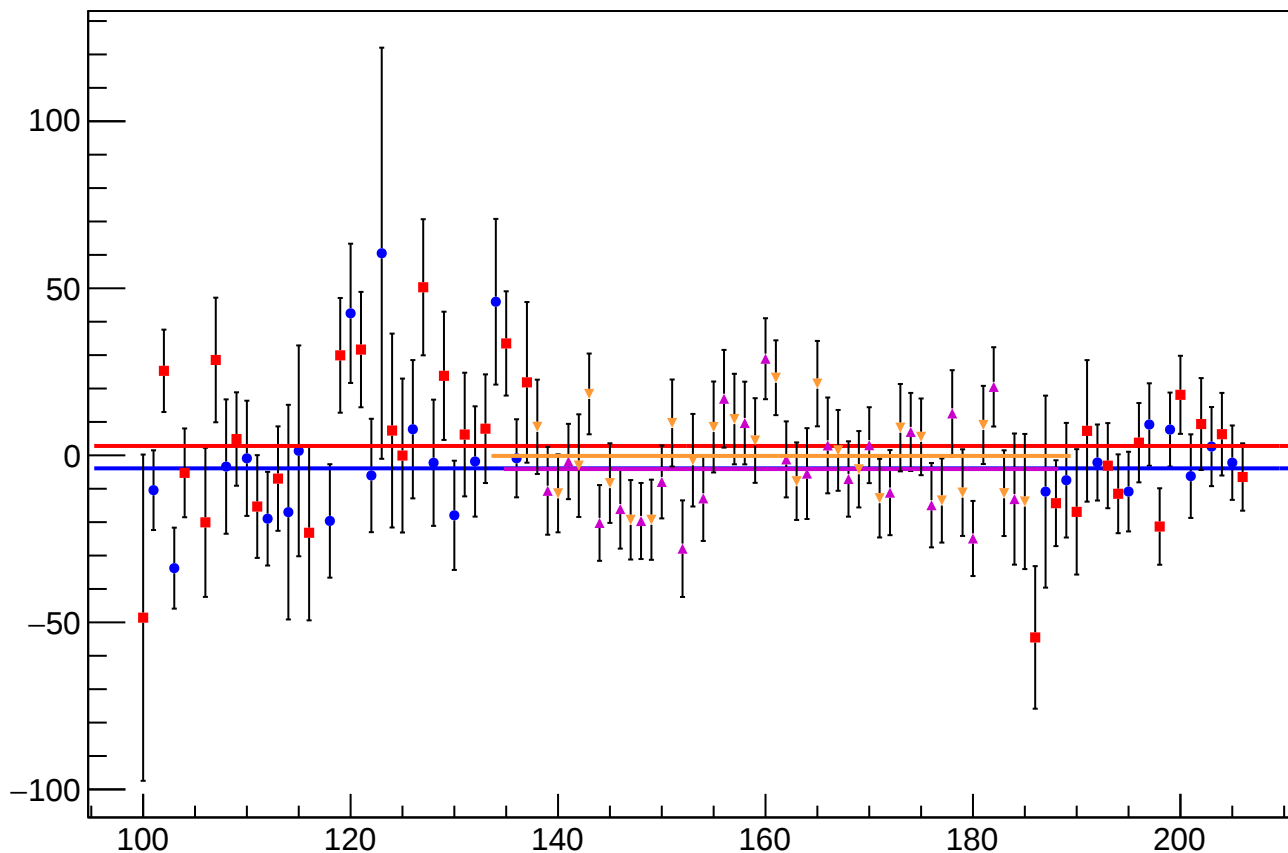
Right: 171.838 $\pm$ 0.024 χ^2 /NDF: 4838915.9/56

In: 175.899 $\pm$ 0.024 χ^2 /NDF:3725741.3/48

Out: 184.108 $\pm$ 0.024 χ^2 /NDF:4866070.2/55

All: 180.000 $\pm$ 0.017 χ^2 /NDF: 8651984.6/104

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.895 ± 2.969 $\chi^2/\text{NDF}: 22.9/25$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 2.809 ± 2.770 $\chi^2/\text{NDF}: 46.3/30$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

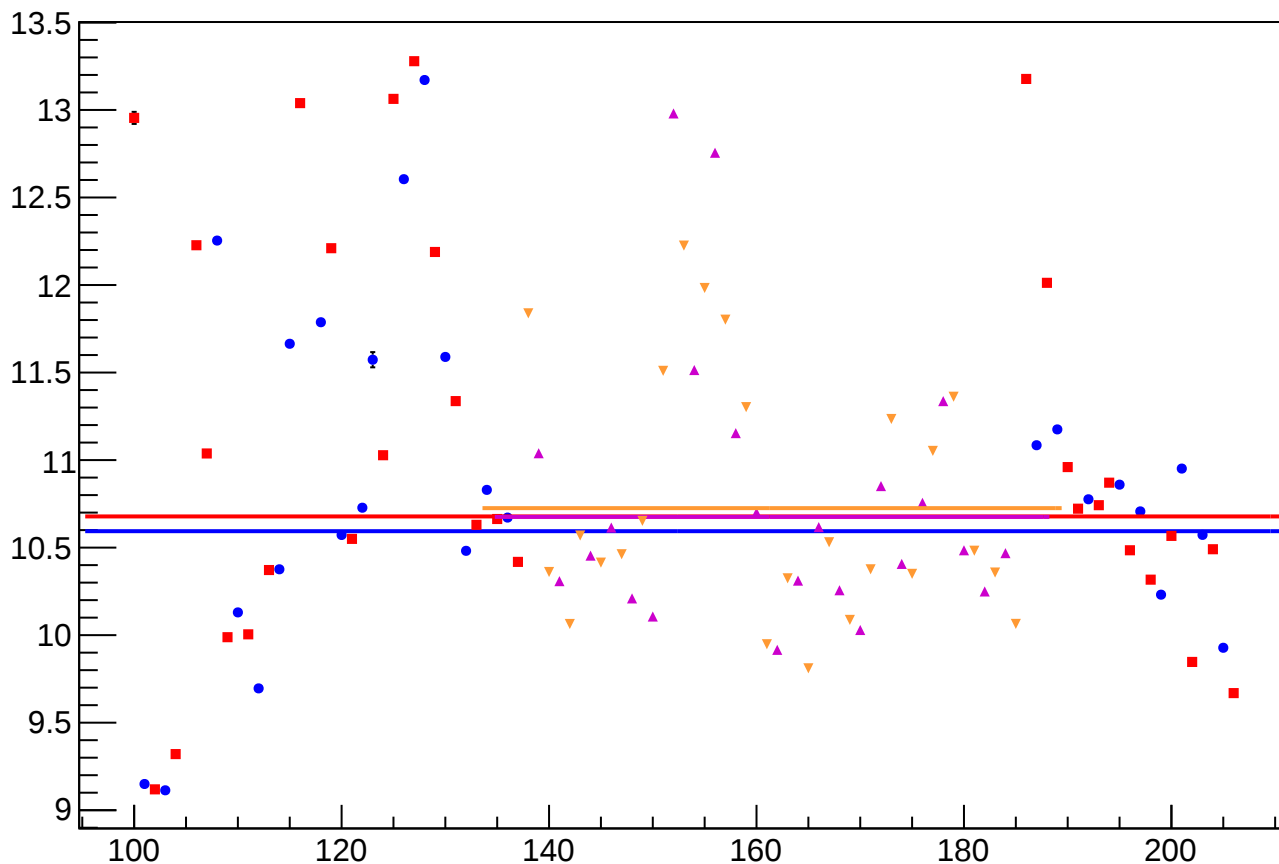
Right: -0.311 ± 2.026 $\chi^2/\text{NDF}: 71.9/56$

In: -4.016 ± 1.946 $\chi^2/\text{NDF}: 54.5/48$

Out: 1.179 ± 1.864 $\chi^2/\text{NDF}: 71.3/55$

All: -1.307 ± 1.346 $\chi^2/\text{NDF}: 129.5/104$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.594 $\pm$ 0.002 χ^2 /NDF: 174721.7/25

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.678 $\pm$ 0.002 χ^2 /NDF: 259329.6/30

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

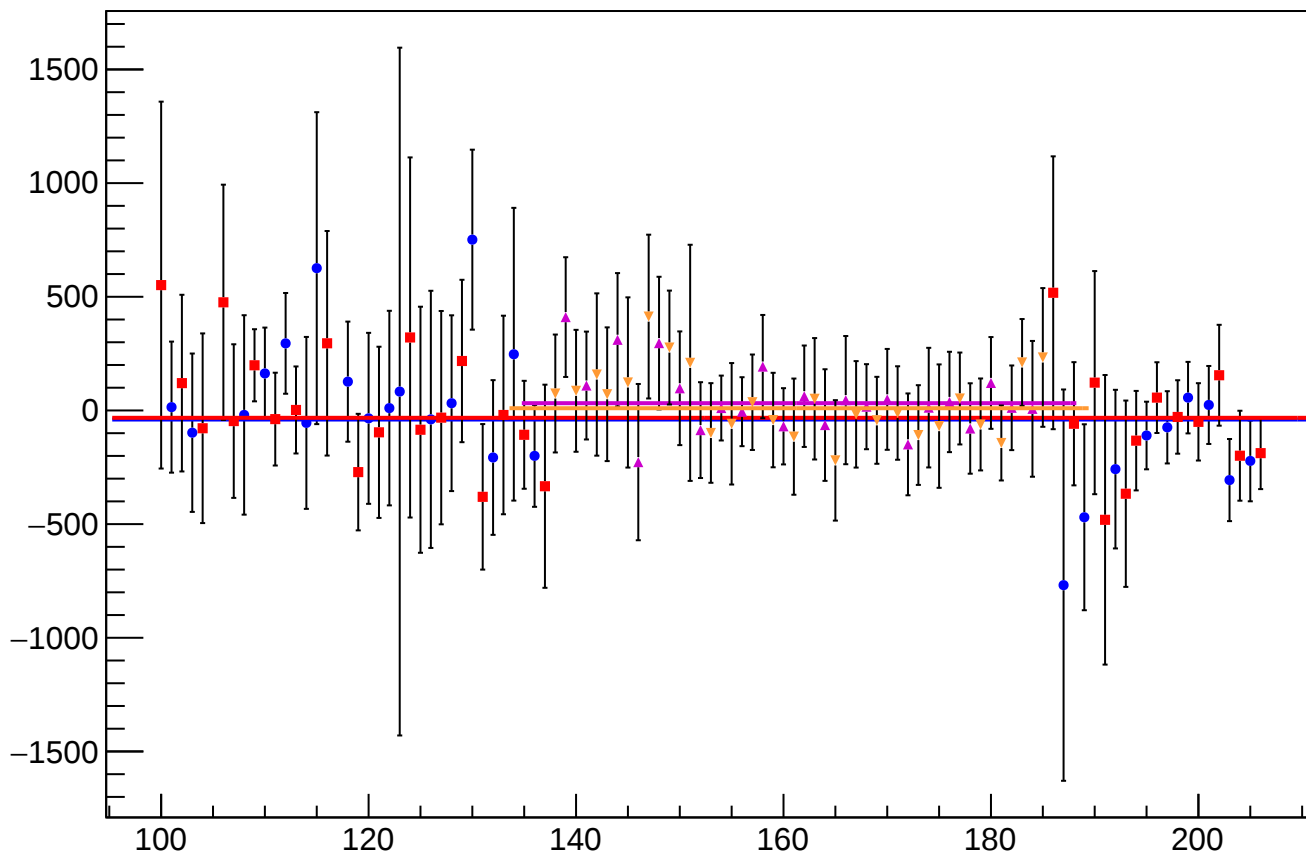
Right: 10.639 $\pm$ 0.001 χ^2 /NDF: 434912.3/56

In: 10.640 $\pm$ 0.001 χ^2 /NDF:321520.5/48

Out: 10.704 $\pm$ 0.001 χ^2 /NDF:391819.9/55

All: 10.674 $\pm$ 0.001 χ^2 /NDF: 714455.5/104

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -39.902 ± 50.565 χ^2/NDF : 15.9/25

Left Out: 9.801 ± 47.979 χ^2/NDF : 7.5/24

Right Out: -32.367 ± 47.204 χ^2/NDF : 12.6/30

Left In: 31.989 ± 45.038 χ^2/NDF : 7.2/22

Left: 21.596 ± 32.837 χ^2/NDF : 14.8/47

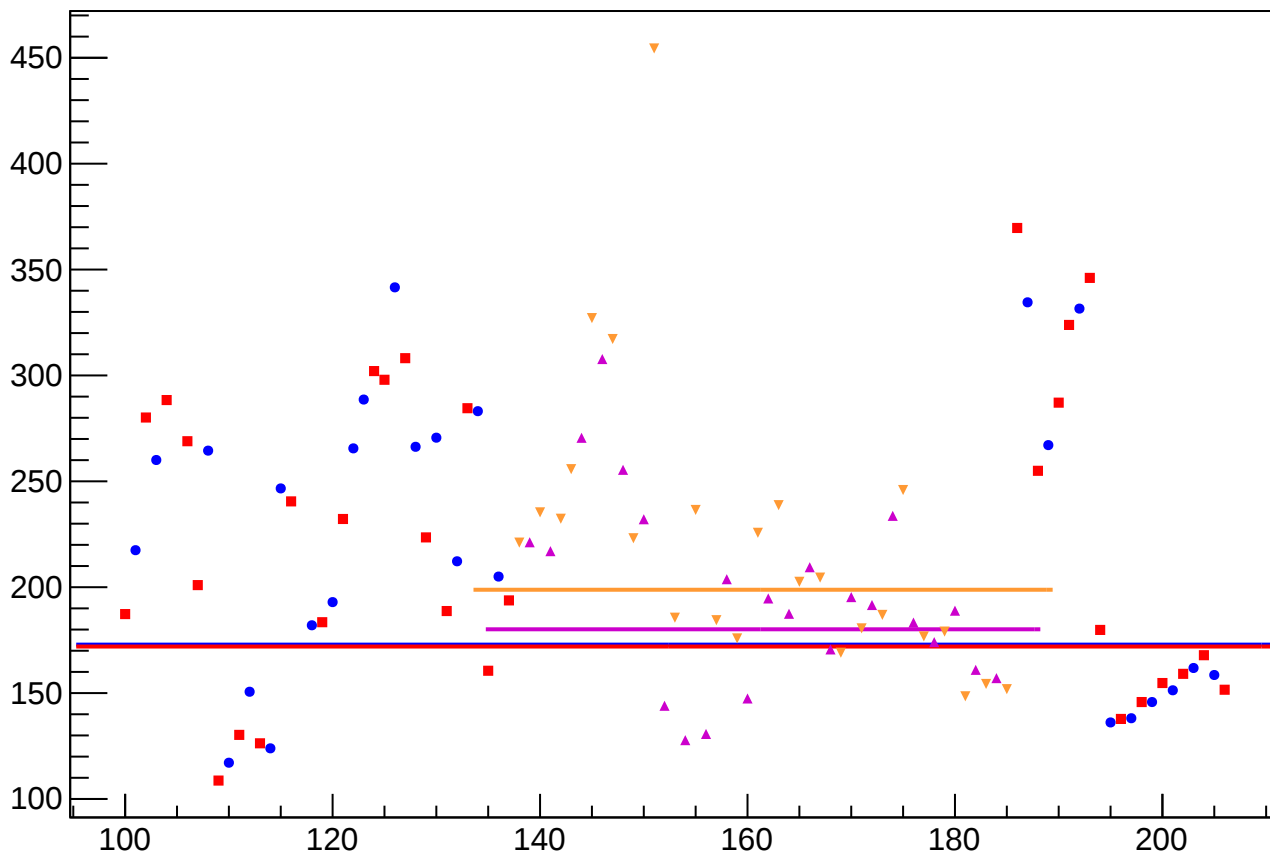
Right: -35.876 ± 34.505 χ^2/NDF : 28.6/56

In: 0.186 ± 33.632 χ^2/NDF : 24.2/48

Out: -11.626 ± 33.649 χ^2/NDF : 20.6/55

All: -5.717 ± 23.787 χ^2/NDF : 44.9/104

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.883 $\pm$ 0.036 χ^2 /NDF: 2066548.4/25

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 171.983 $\pm$ 0.033 χ^2 /NDF: 2728415.4/30

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

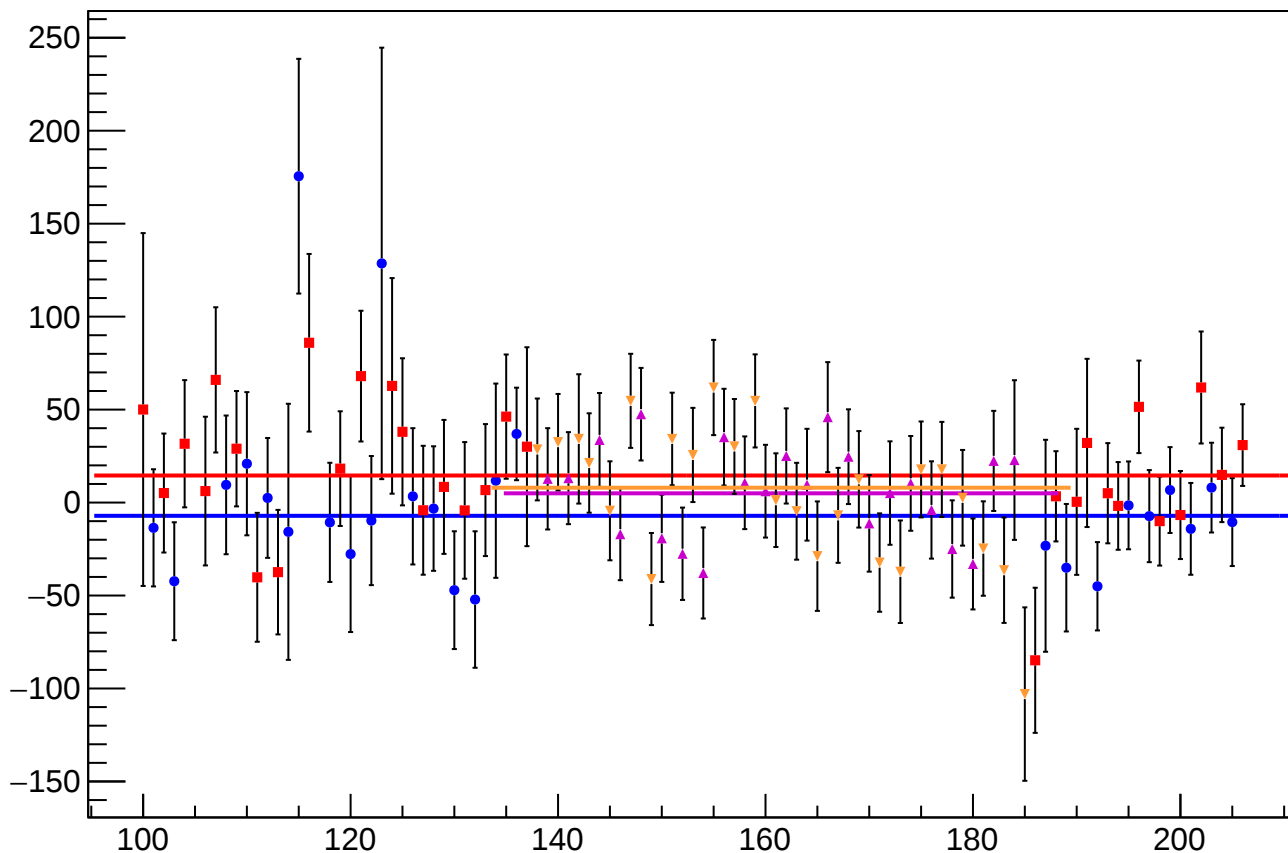
Right: 172.402 $\pm$ 0.024 χ^2 /NDF: 4795302.3/56

In: 176.920 $\pm$ 0.024 χ^2 /NDF:3683254.7/48

Out: 185.173 $\pm$ 0.024 χ^2 /NDF:4809031.2/55

All: 181.045 $\pm$ 0.017 χ^2 /NDF: 8552475.8/104

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -7.128 ± 6.202 $\chi^2/\text{NDF}: 22.8/25$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 14.554 ± 5.760 $\chi^2/\text{NDF}: 29.3/30$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

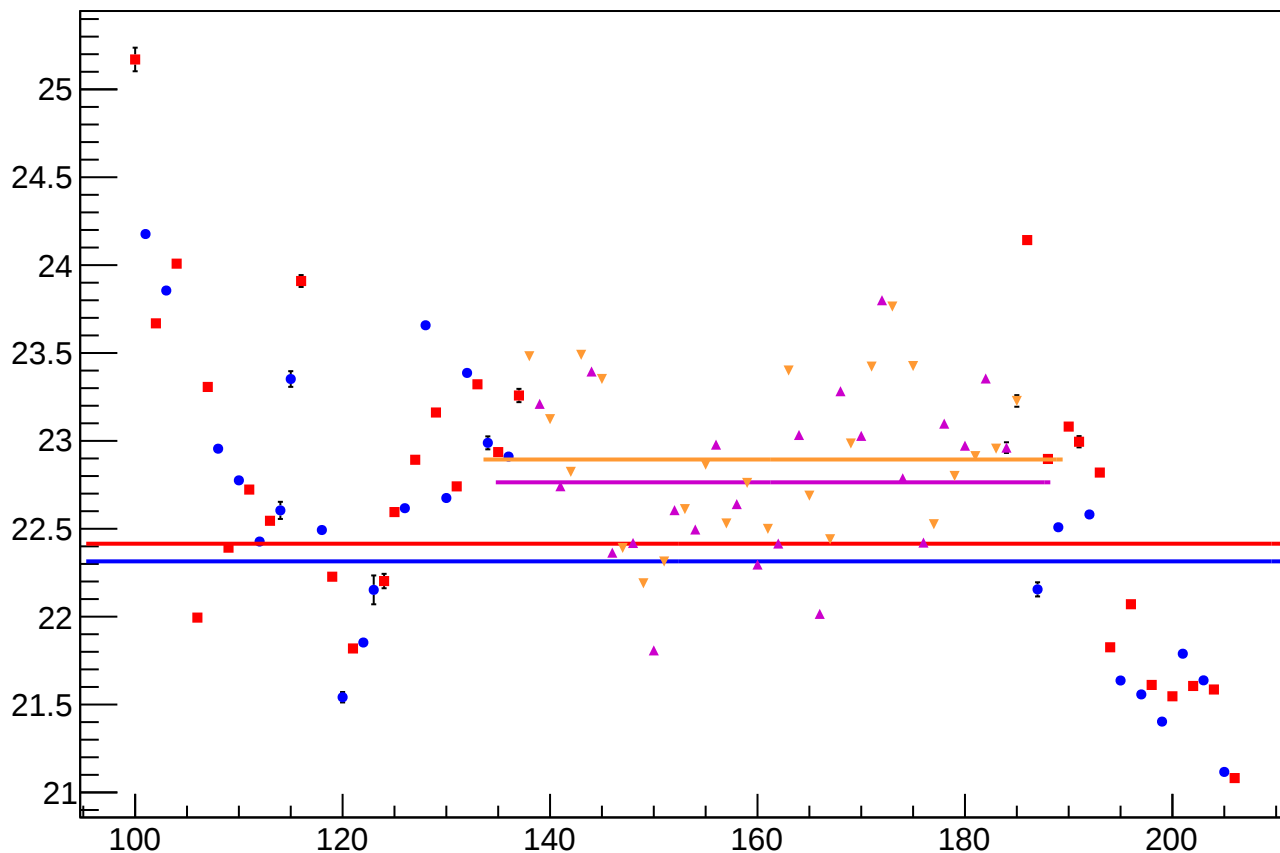
Right: 4.513 ± 4.220 $\chi^2/\text{NDF}: 58.6/56$

In: -0.294 ± 4.092 $\chi^2/\text{NDF}: 45.4/48$

Out: 11.016 ± 3.911 $\chi^2/\text{NDF}: 67.4/55$

All: 5.616 ± 2.827 $\chi^2/\text{NDF}: 116.8/104$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.315 ± 0.004 χ^2/NDF : 35669.2/25

Left Out: 22.894 ± 0.004 χ^2/NDF : 13070.5/24

Right Out: 22.415 ± 0.004 χ^2/NDF : 40497.1/30

Left In: 22.764 ± 0.004 χ^2/NDF : 14665.7/22

Left: 22.831 ± 0.003 χ^2/NDF : 28317.3/47

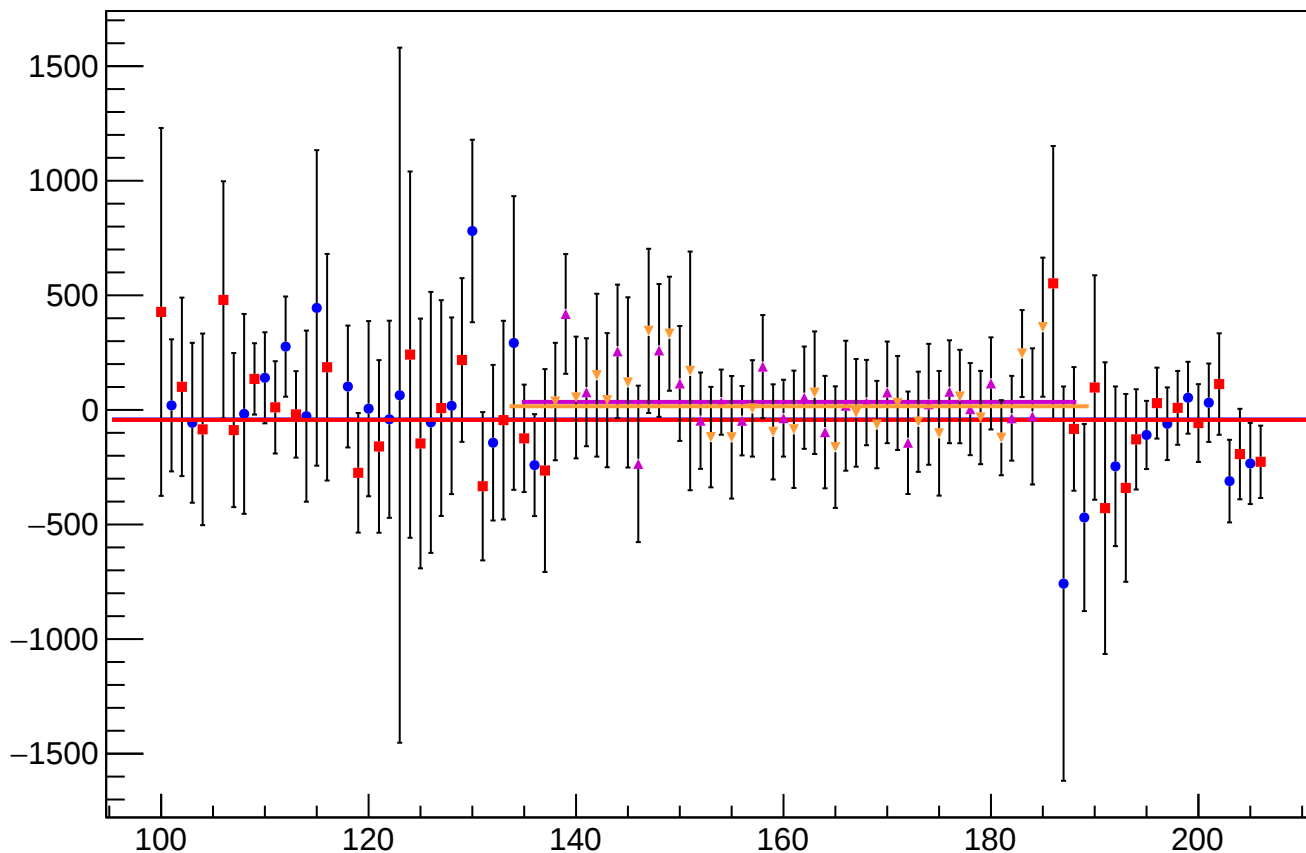
Right: 22.369 ± 0.003 χ^2/NDF : 76447.8/56

In: 22.569 ± 0.003 χ^2/NDF : 56273.2/48

Out: 22.673 ± 0.003 χ^2/NDF : 61026.6/55

All: 22.623 ± 0.002 χ^2/NDF : 117983.6/104

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -41.802 ± 50.417 χ^2/NDF : 15.6/25

Left Out: 15.904 ± 47.898 χ^2/NDF : 8.4/24

Right Out: -43.557 ± 46.990 χ^2/NDF : 10.8/30

Left In: 34.919 ± 44.971 χ^2/NDF : 6.6/22

Left: 26.010 ± 32.785 χ^2/NDF : 15.1/47

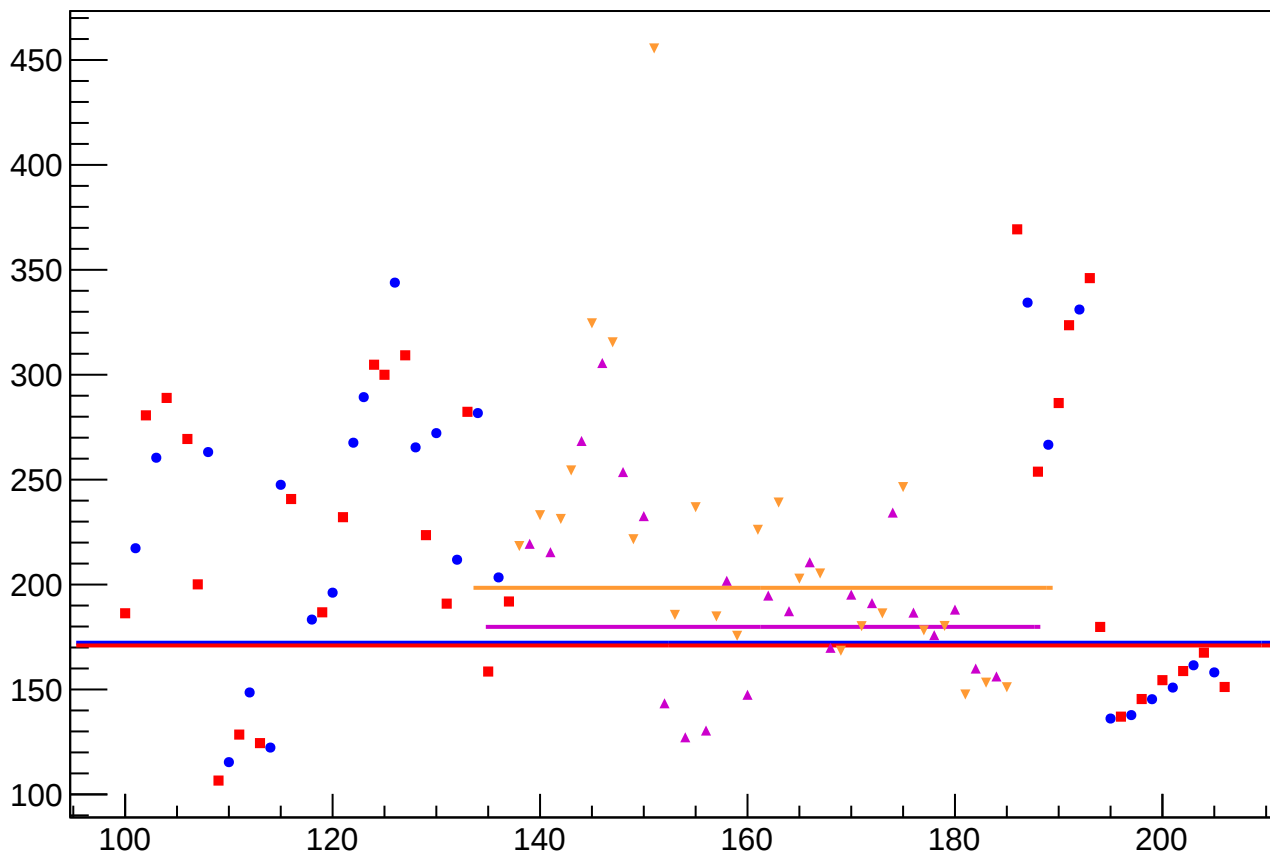
Right: -42.741 ± 34.375 χ^2/NDF : 26.4/56

In: 0.925 ± 33.560 χ^2/NDF : 23.4/48

Out: -14.396 ± 33.543 χ^2/NDF : 20.0/55

All: -6.739 ± 23.725 χ^2/NDF : 43.6/104

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.279+/-0.036 χ^2/NDF : 2097267.4/25

Left Out: 198.450+/-0.034 χ^2/NDF : 1761433.9/24

Right Out: 170.974+/-0.033 χ^2/NDF : 2797861.8/30

Left In: 179.839+/-0.032 χ^2/NDF : 1588834.3/22

Left: 188.558+/-0.023 χ^2/NDF : 3510745.5/47

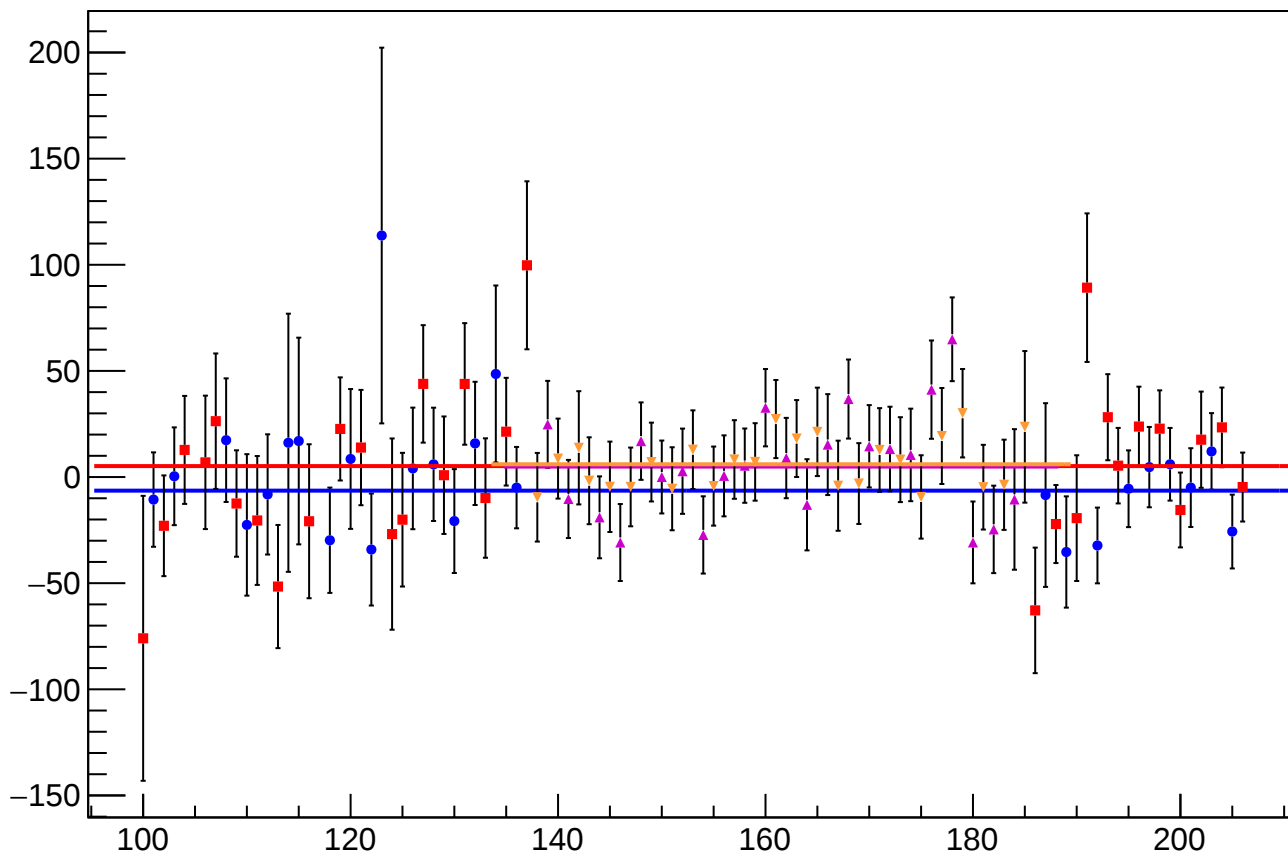
Right: 171.581+/-0.024 χ^2/NDF : 4895847.0/56

In: 176.489+/-0.024 χ^2/NDF : 3711143.8/48

Out: 184.449+/-0.024 χ^2/NDF : 4894654.8/55

All: 180.471+/-0.017 χ^2/NDF : 8662071.9/104

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.407 $\pm$ 4.741 χ^2 /NDF: 14.9/25

Left Out: 6.020 $\pm$ 4.017 χ^2 /NDF:8.1/24

Right Out: 5.160 $\pm$ 4.413 χ^2 /NDF: 41.1/30

Left In: 4.943 $\pm$ 4.108 χ^2 /NDF:34.8/22

Left: 5.494 $\pm$ 2.872 χ^2 /NDF: 43.0/47

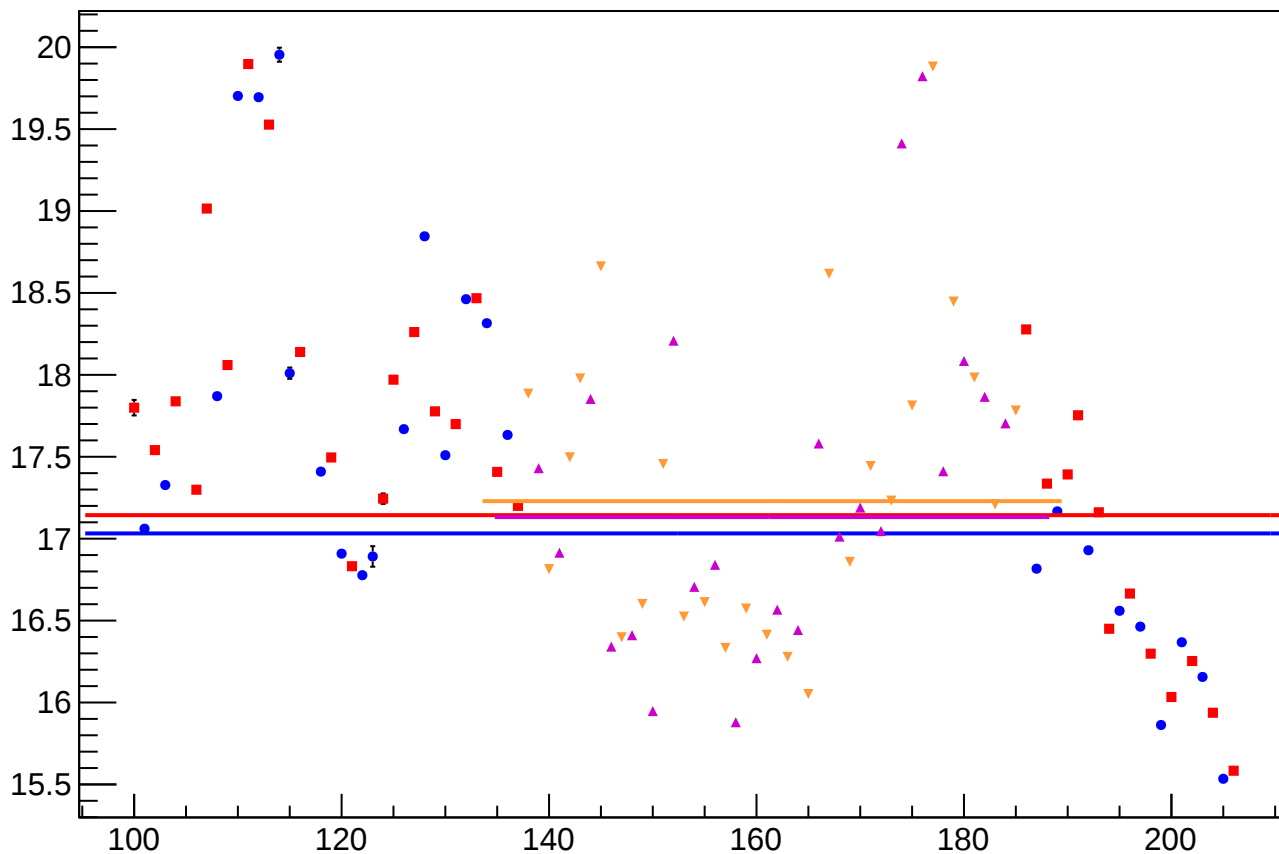
Right: -0.210 $\pm$ 3.230 χ^2 /NDF: 59.2/56

In: 0.076 $\pm$ 3.104 χ^2 /NDF:53.0/48

Out: 5.630 $\pm$ 2.971 χ^2 /NDF:49.3/55

All: 2.976 $\pm$ 2.146 χ^2 /NDF: 104.0/104

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.032 $\pm$ 0.003 χ^2 /NDF: 93100.8/25

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 17.144 $\pm$ 0.003 χ^2 /NDF: 105453.4/30

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

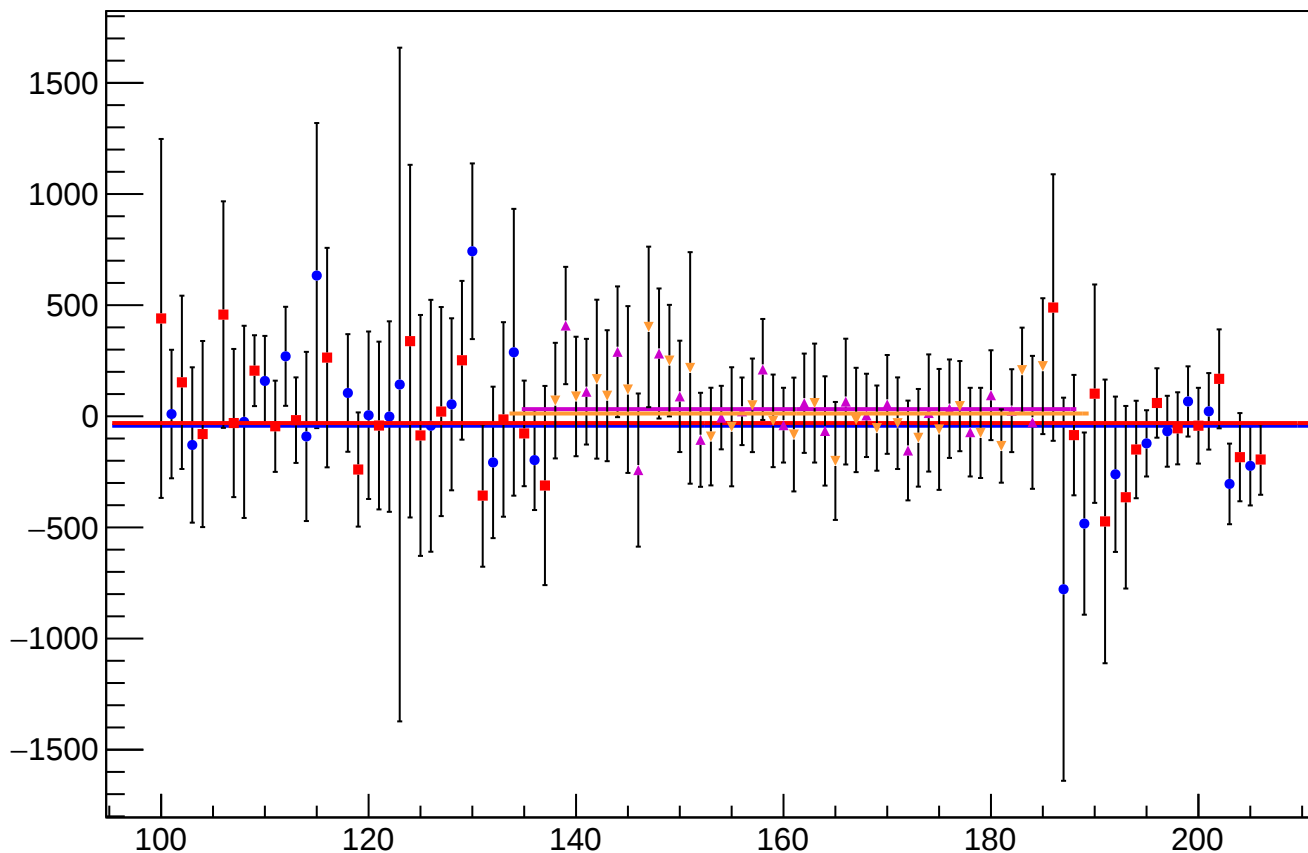
Right: 17.092 $\pm$ 0.002 χ^2 /NDF: 199147.5/56

In: 17.089 $\pm$ 0.002 χ^2 /NDF:197603.9/48

Out: 17.190 $\pm$ 0.002 χ^2 /NDF:204488.4/55

All: 17.142 $\pm$ 0.002 χ^2 /NDF: 403204.3/104

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -42.467 ± 50.716 χ^2/NDF : 15.7/25

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -30.431 ± 47.322 χ^2/NDF : 12.2/30

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

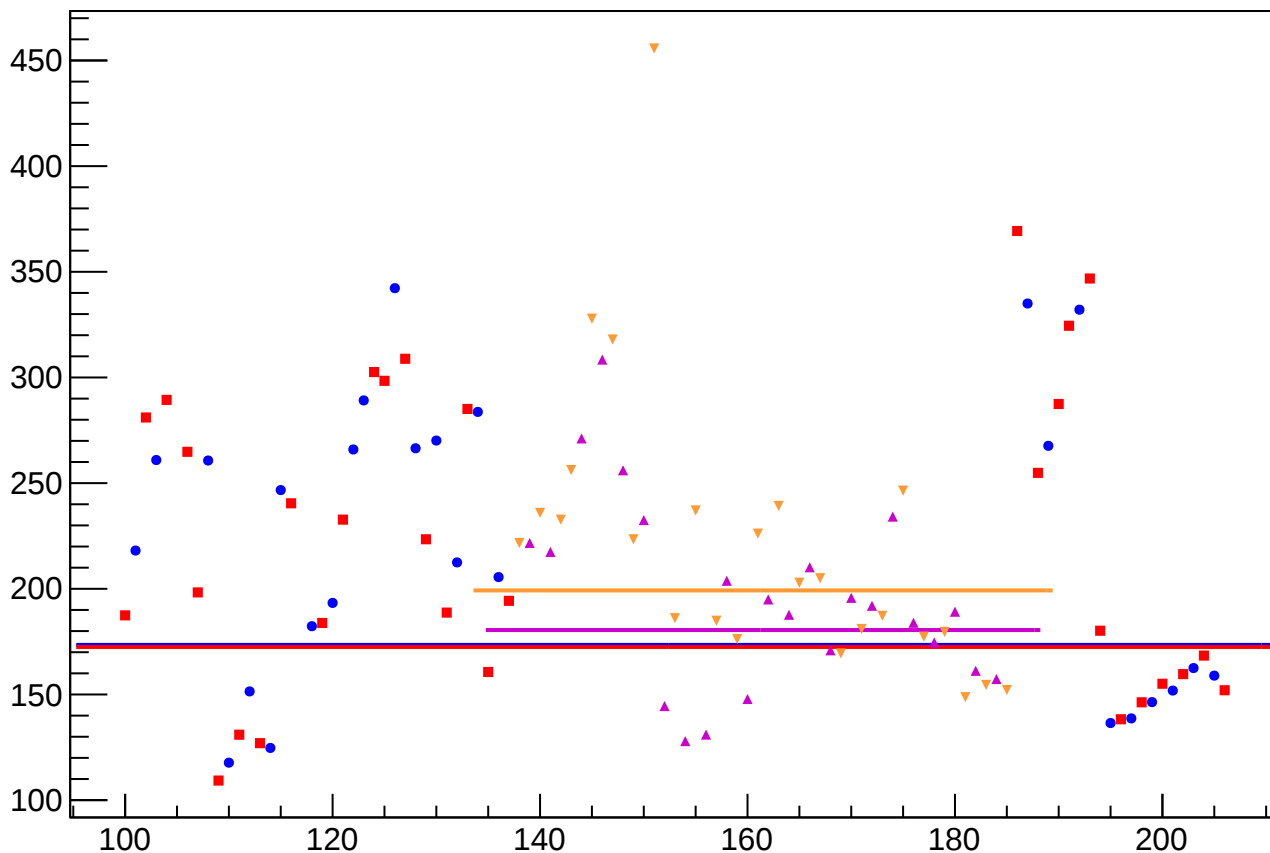
Right: -36.033 ± 34.599 χ^2/NDF : 27.9/56

In: -0.820 ± 33.715 χ^2/NDF : 23.8/48

Out: -9.322 ± 33.729 χ^2/NDF : 19.4/55

All: -5.069 ± 23.845 χ^2/NDF : 43.3/104

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.464 $\pm$ 0.036 χ^2 /NDF: 2048451.7/25

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 172.486 $\pm$ 0.033 χ^2 /NDF: 2704520.0/30

Left In: 180.494 $\pm$ 0.032 χ^2 /NDF:1593784.1/22

Left: 189.274 $\pm$ 0.023 χ^2 /NDF: 3519511.1/47

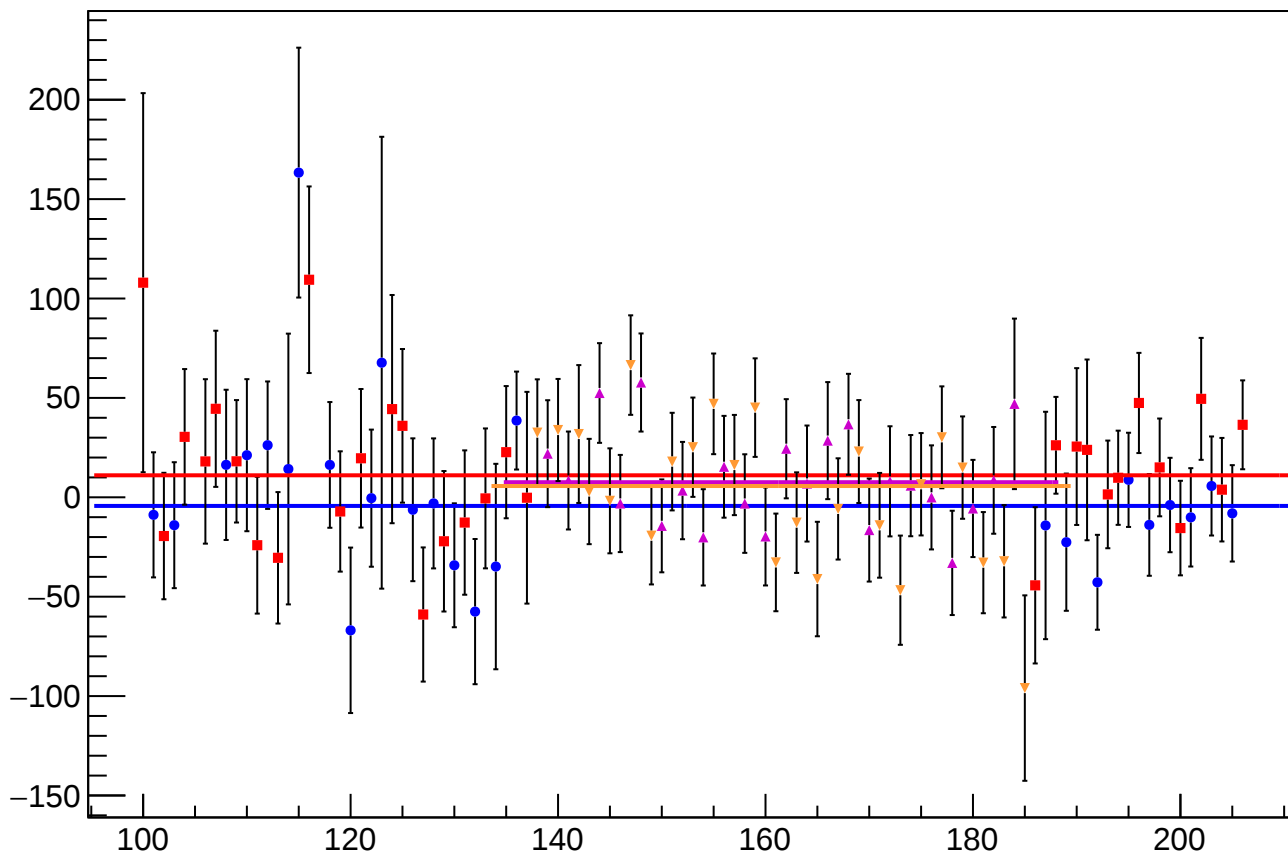
Right: 172.941 $\pm$ 0.024 χ^2 /NDF: 4753368.9/56

In: 177.387 $\pm$ 0.024 χ^2 /NDF:3663680.9/48

Out: 185.649 $\pm$ 0.024 χ^2 /NDF:4783157.4/55

All: 181.516 $\pm$ 0.017 χ^2 /NDF: 8506871.2/104

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.340 ± 6.230 χ^2/NDF : 22.1/25

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 11.067 ± 5.775 χ^2/NDF : 26.2/30

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

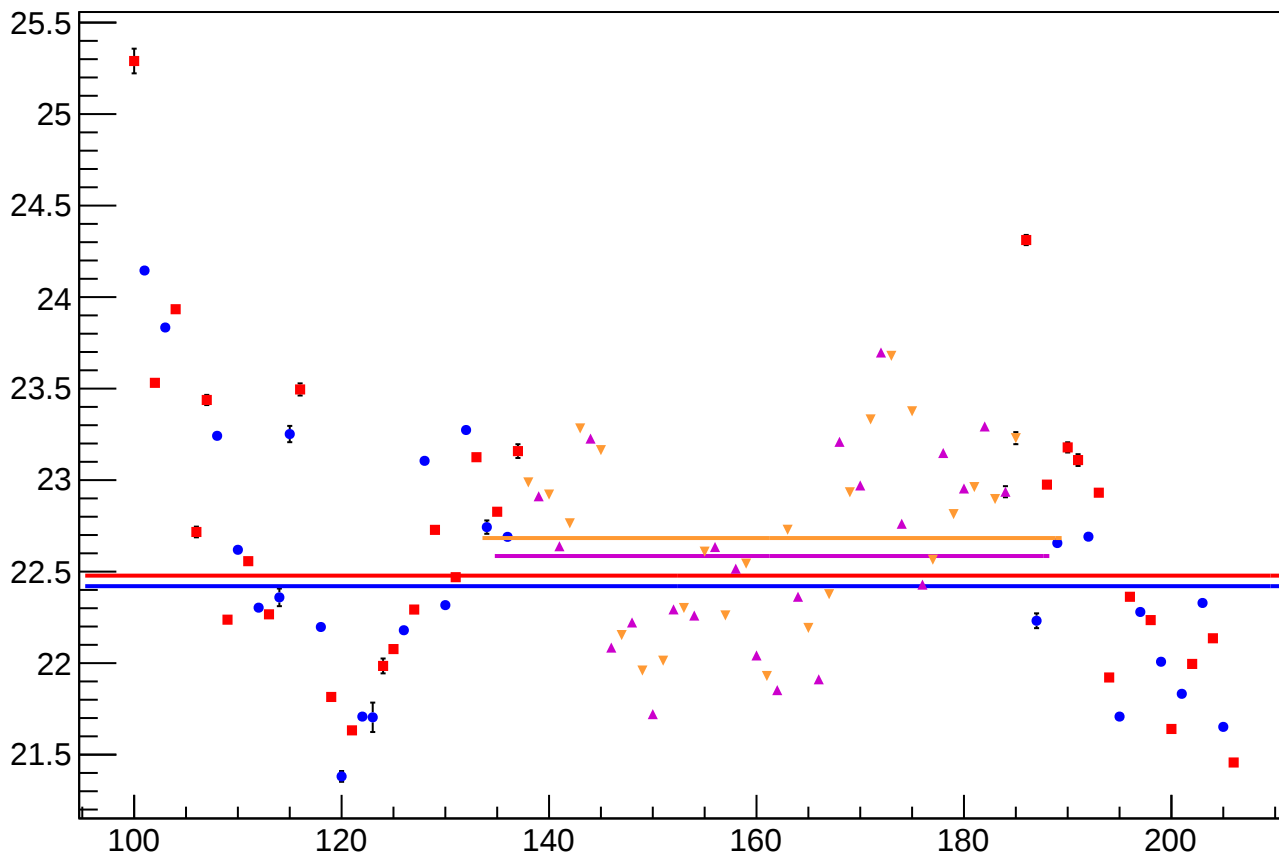
Right: 3.947 ± 4.235 χ^2/NDF : 51.5/56

In: 2.472 ± 4.081 χ^2/NDF : 42.5/48

Out: 8.128 ± 3.896 χ^2/NDF : 63.0/55

All: 5.431 ± 2.818 χ^2/NDF : 106.5/104

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.421+/-0.004 χ^2/NDF : 22061.4/25

Left Out: 22.683+/-0.004 χ^2/NDF : 16318.1/24

Right Out: 22.478+/-0.004 χ^2/NDF : 29473.4/30

Left In: 22.585+/-0.004 χ^2/NDF : 18087.5/22

Left: 22.635+/-0.003 χ^2/NDF : 34743.7/47

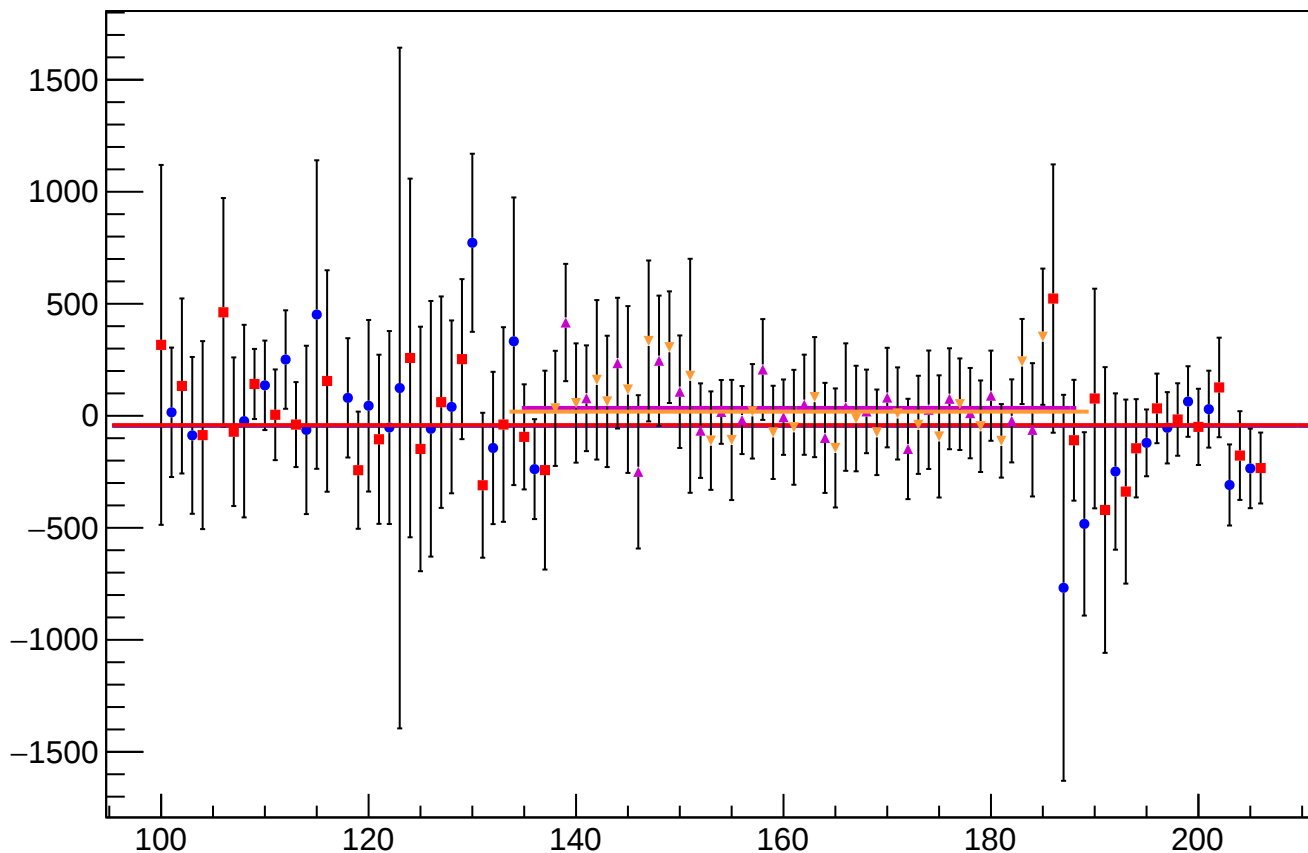
Right: 22.451+/-0.003 χ^2/NDF : 51626.6/56

In: 22.515+/-0.003 χ^2/NDF : 40947.2/48

Out: 22.590+/-0.003 χ^2/NDF : 47169.7/55

All: 22.554+/-0.002 χ^2/NDF : 88474.3/104

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -44.447 ± 50.569 $\chi^2/\text{NDF}: 15.3/25$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -41.675 ± 47.109 $\chi^2/\text{NDF}: 10.3/30$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

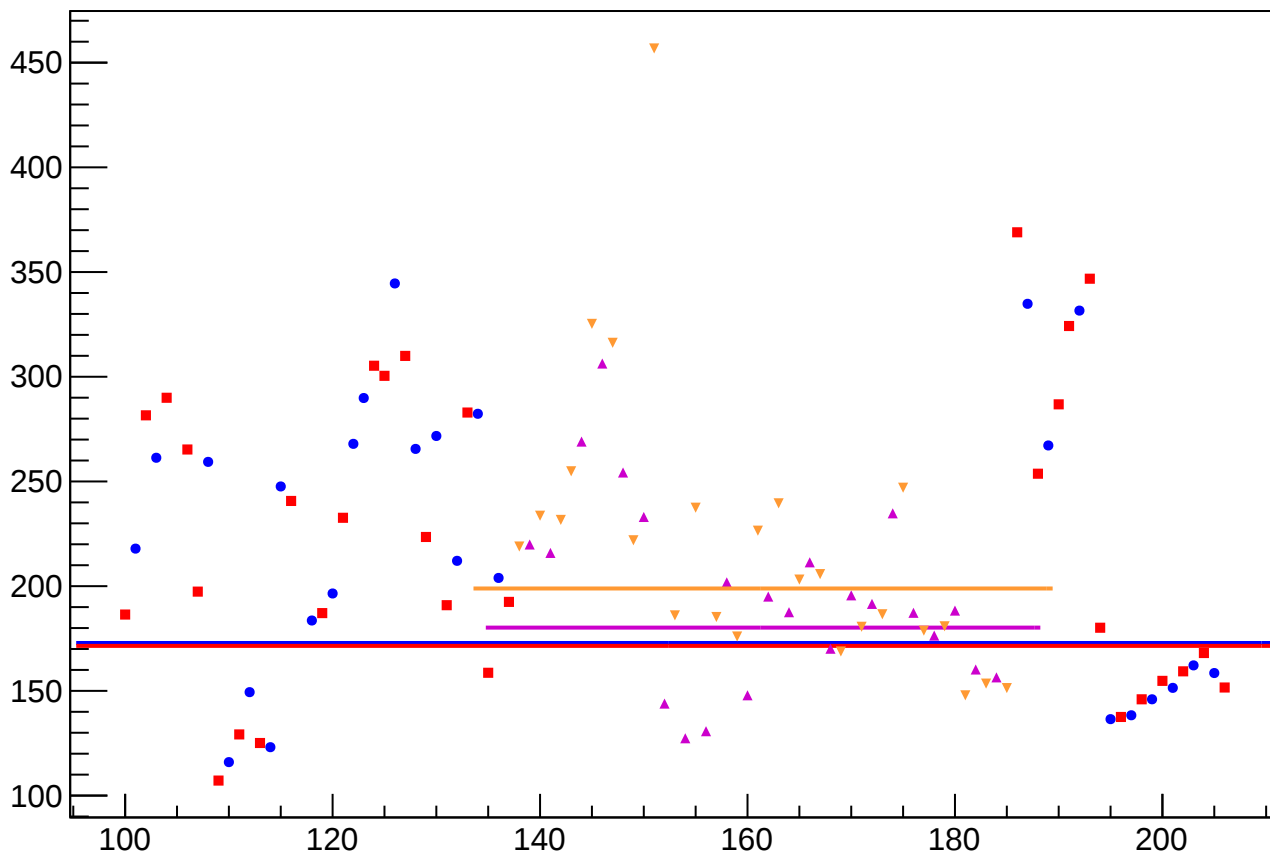
Right: -42.963 ± 34.470 $\chi^2/\text{NDF}: 25.7/56$

In: -0.138 ± 33.643 $\chi^2/\text{NDF}: 23.0/48$

Out: -12.090 ± 33.624 $\chi^2/\text{NDF}: 18.7/55$

All: -6.118 ± 23.782 $\chi^2/\text{NDF}: 41.8/104$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.866 $\pm$ 0.036 χ^2 /NDF: 2078572.1/25

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 171.485 $\pm$ 0.033 χ^2 /NDF: 2773025.5/30

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

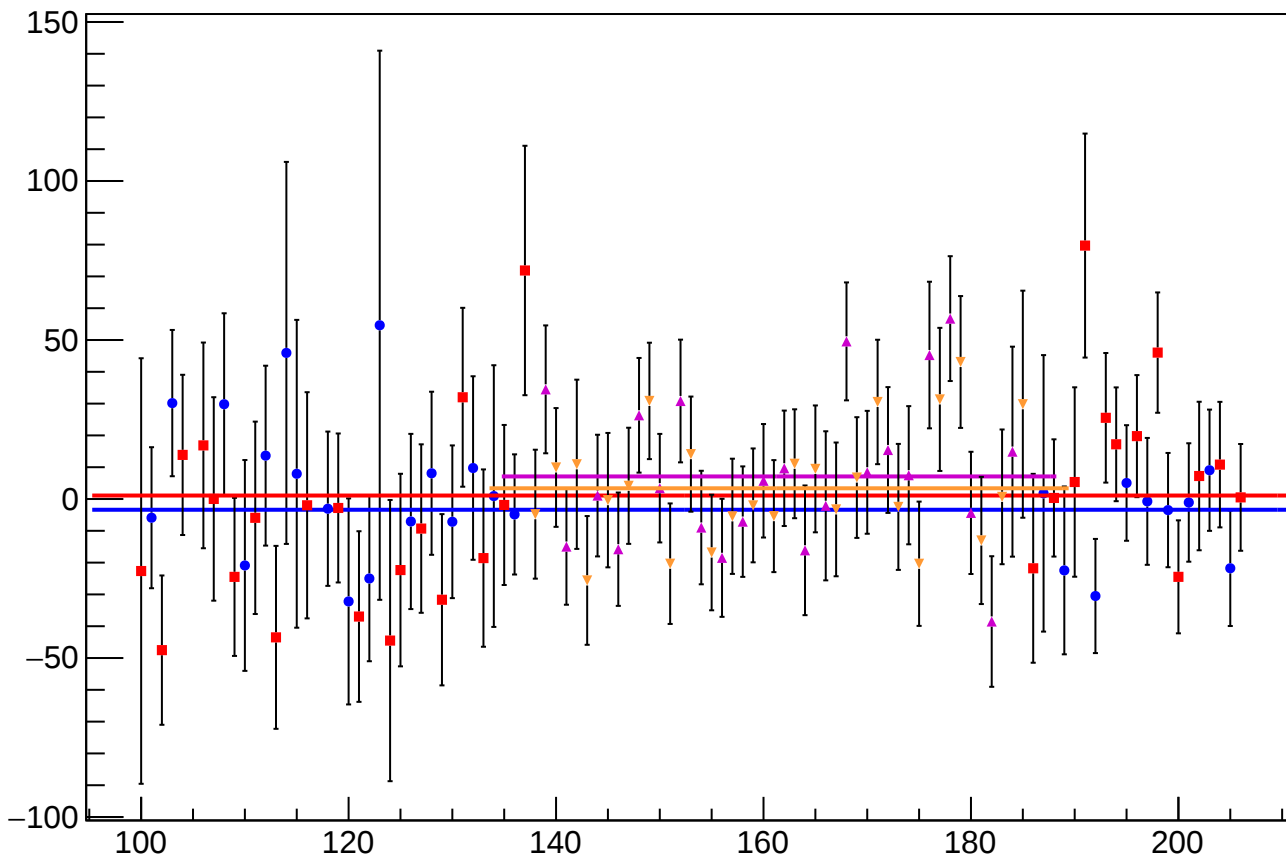
Right: 172.127 $\pm$ 0.024 χ^2 /NDF: 4852396.8/56

In: 176.958 $\pm$ 0.024 χ^2 /NDF:3691069.1/48

Out: 184.929 $\pm$ 0.024 χ^2 /NDF:4867539.3/55

All: 180.946 $\pm$ 0.017 χ^2 /NDF: 8614779.0/104

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.378 ± 4.778 $\chi^2/\text{NDF}: 11.8/25$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 1.096 ± 4.436 $\chi^2/\text{NDF}: 35.6/30$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

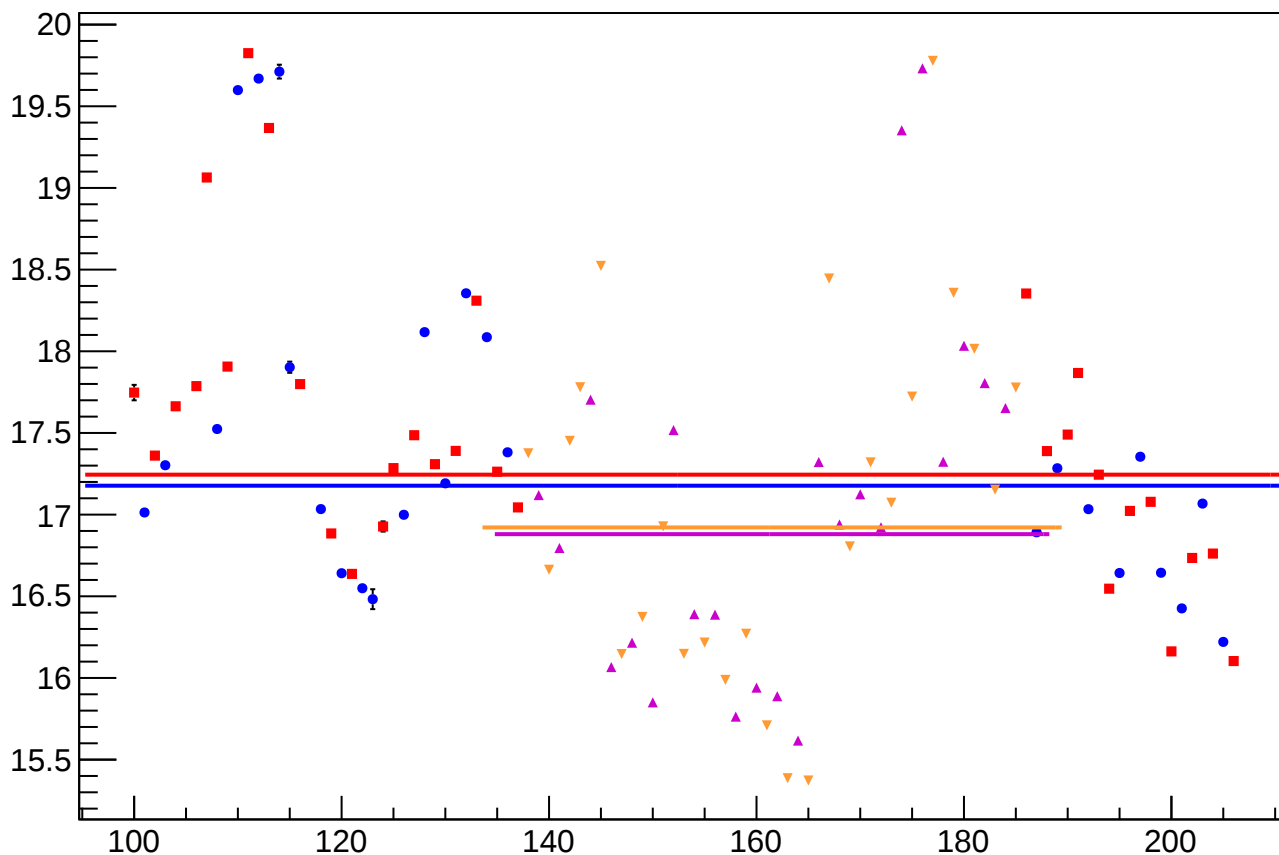
Right: -0.975 ± 3.251 $\chi^2/\text{NDF}: 47.8/56$

In: 2.722 ± 3.088 $\chi^2/\text{NDF}: 47.1/48$

Out: 2.366 ± 2.949 $\chi^2/\text{NDF}: 54.5/55$

All: 2.536 ± 2.133 $\chi^2/\text{NDF}: 101.6/104$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.177 $\pm$ 0.003 χ^2 /NDF: 52665.0/25

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.245 $\pm$ 0.003 χ^2 /NDF: 65848.4/30

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

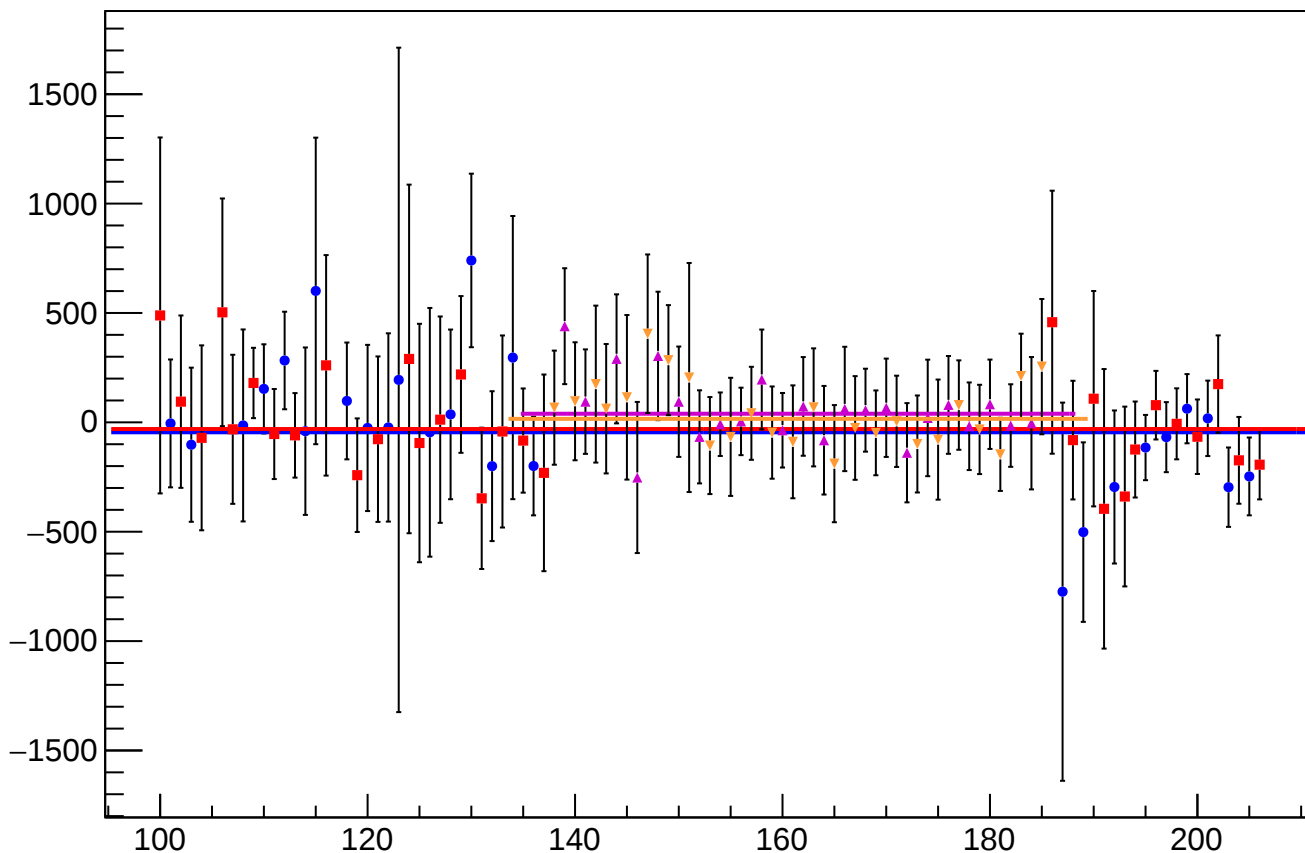
Right: 17.213 $\pm$ 0.002 χ^2 /NDF: 118728.5/56

In: 17.004 $\pm$ 0.002 χ^2 /NDF:178889.1/48

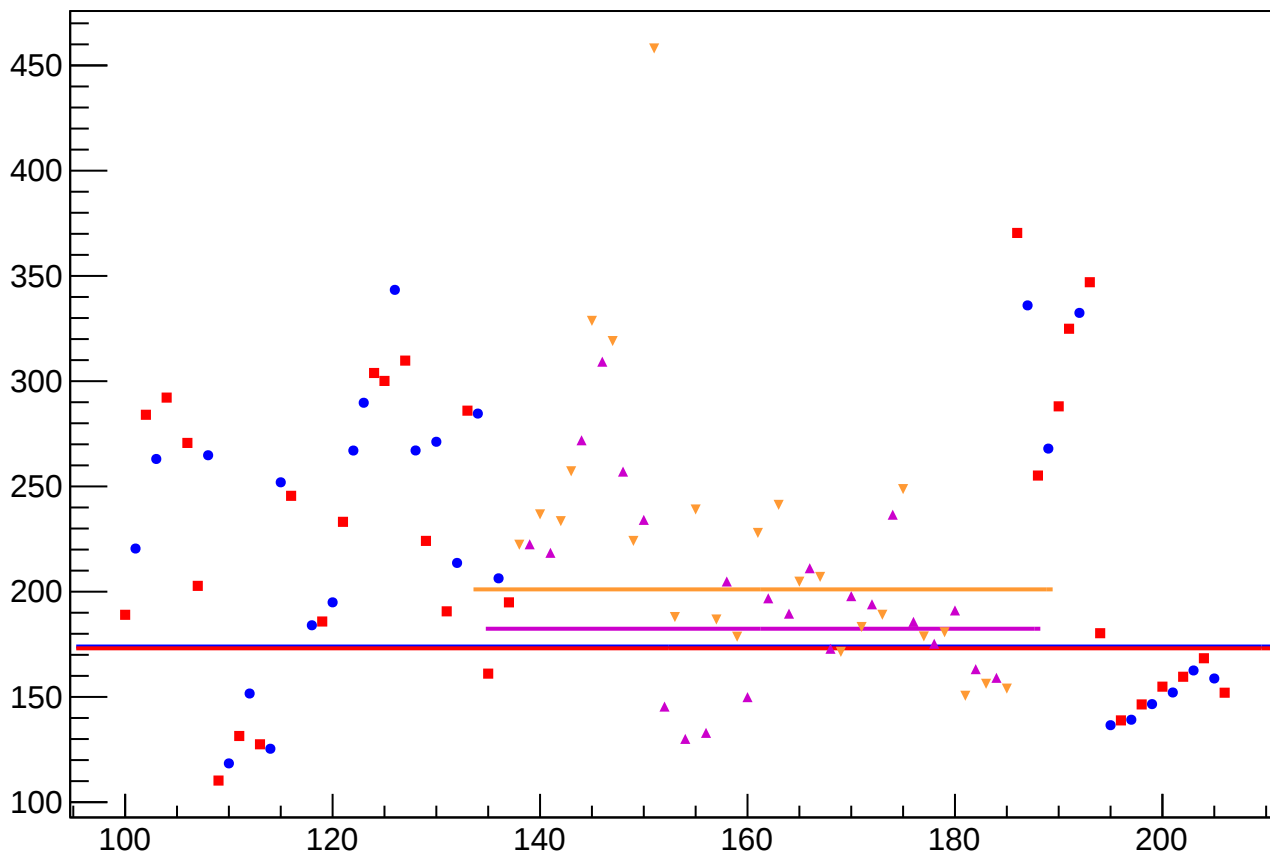
Out: 17.064 $\pm$ 0.002 χ^2 /NDF:210764.7/55

All: 17.036 $\pm$ 0.002 χ^2 /NDF: 390047.4/104

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.946 $\pm$ 0.036 χ^2 /NDF: 2063939.2/25

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 173.089 $\pm$ 0.034 χ^2 /NDF: 2715275.7/30

Left In: 182.396 $\pm$ 0.032 χ^2 /NDF:1548907.7/22

Left: 191.161 $\pm$ 0.023 χ^2 /NDF: 3437793.2/47

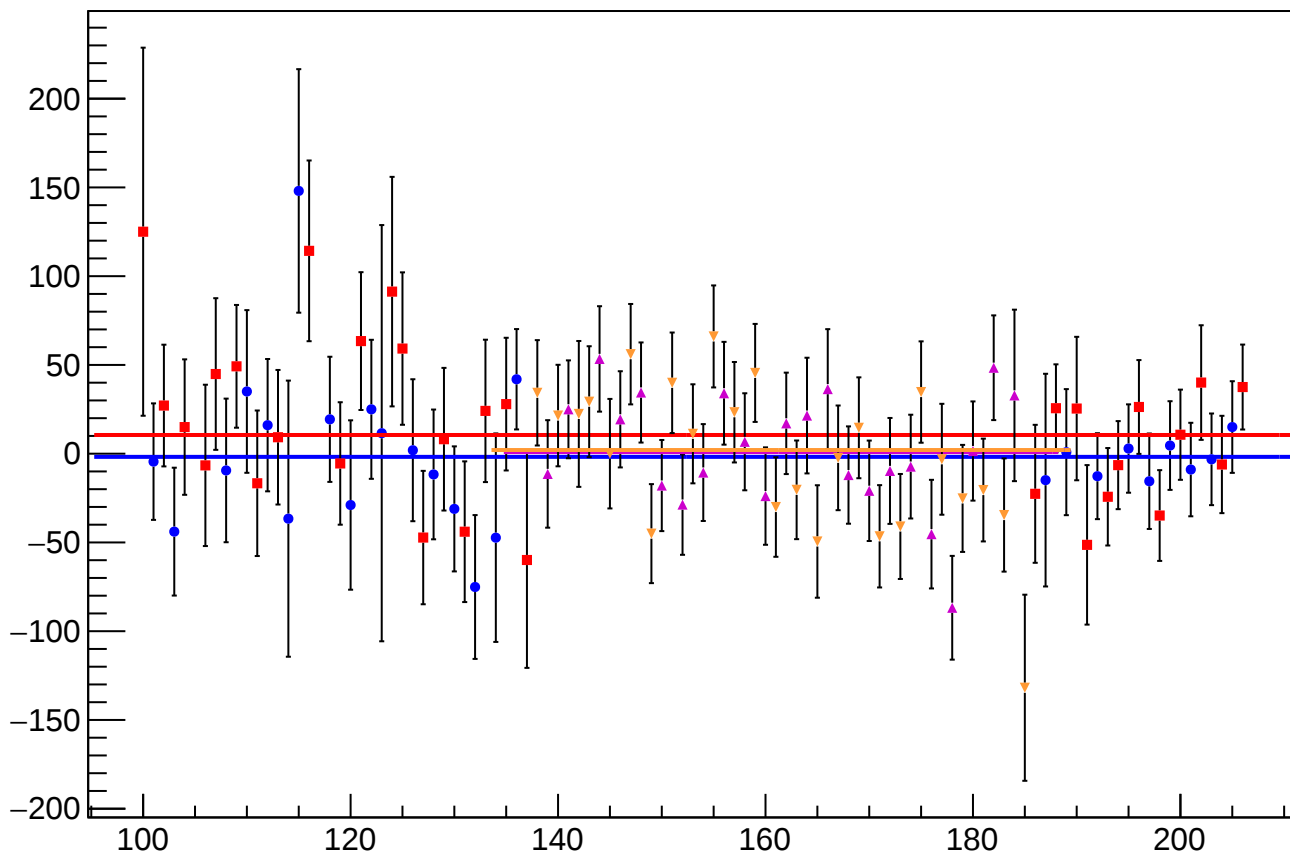
Right: 173.488 $\pm$ 0.025 χ^2 /NDF: 4779518.2/56

In: 178.634 $\pm$ 0.024 χ^2 /NDF:3643464.0/48

Out: 186.794 $\pm$ 0.024 χ^2 /NDF:4786702.3/55

All: 182.715 $\pm$ 0.017 χ^2 /NDF: 8487978.1/104

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.787 ± 6.741 χ^2/NDF : 16.6/25

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 10.535 ± 6.209 χ^2/NDF : 30.1/30

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

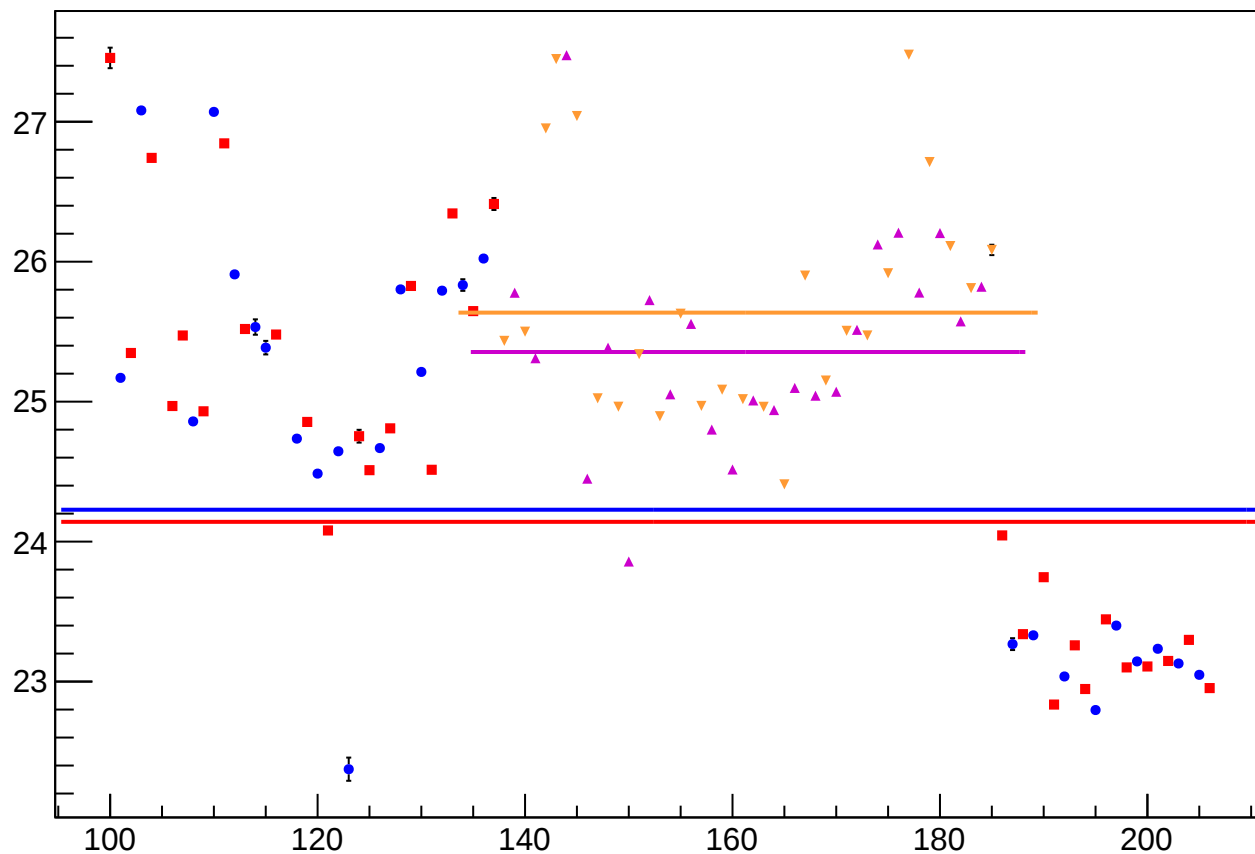
Right: 4.880 ± 4.567 χ^2/NDF : 48.5/56

In: -0.303 ± 4.511 χ^2/NDF : 43.7/48

Out: 6.128 ± 4.303 χ^2/NDF : 70.6/55

All: 3.064 ± 3.114 χ^2/NDF : 115.4/104

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.228 $\pm$ 0.005 χ^2 /NDF: 76399.0/25

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24

Right Out: 24.141 $\pm$ 0.004 χ^2 /NDF: 75216.4/30

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

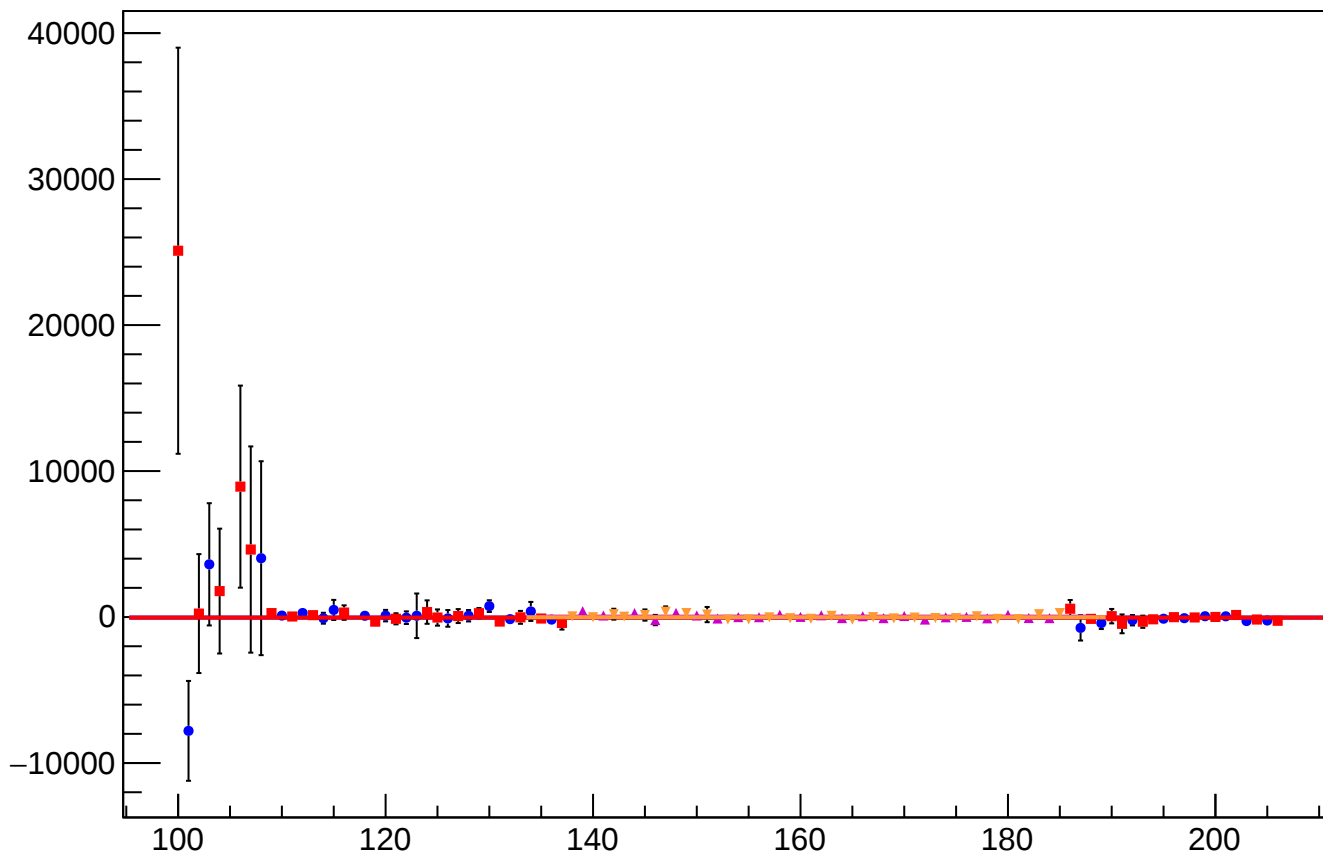
Right: 24.181 $\pm$ 0.003 χ^2 /NDF: 151794.0/56

In: 24.850 $\pm$ 0.003 χ^2 /NDF:137030.8/48

Out: 24.918 $\pm$ 0.003 χ^2 /NDF:170584.2/55

All: 24.886 $\pm$ 0.002 χ^2 /NDF: 307851.0/104

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -36.572 ± 53.565 χ^2/NDF : 20.0/25

Left Out: -12.820 ± 48.216 χ^2/NDF : 7.9/24

Right Out: -37.990 ± 50.793 χ^2/NDF : 17.7/30

Left In: 26.836 ± 45.876 χ^2/NDF : 7.5/22

Left: 7.994 ± 33.236 χ^2/NDF : 15.7/47

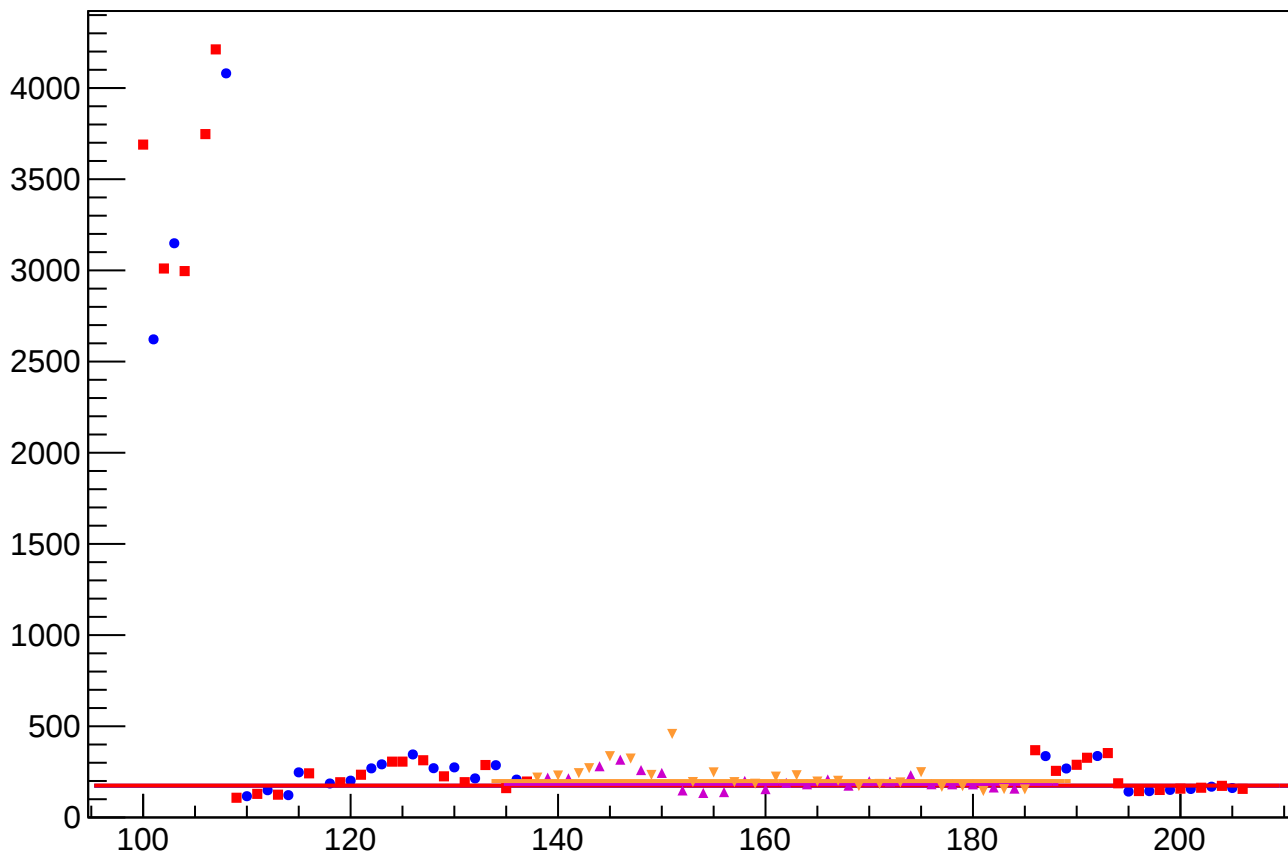
Right: -37.319 ± 36.857 χ^2/NDF : 37.7/56

In: 0.006 ± 34.843 χ^2/NDF : 28.3/48

Out: -24.750 ± 34.969 χ^2/NDF : 25.7/55

All: -12.328 ± 24.682 χ^2/NDF : 54.2/104

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.817 $\pm$ 0.038 χ^2 /NDF: 4475570.4/25

Left Out: 199.536 $\pm$ 0.034 χ^2 /NDF:1880548.8/24

Right Out: 174.794 $\pm$ 0.036 χ^2 /NDF: 5334942.9/30

Left In: 184.031 $\pm$ 0.032 χ^2 /NDF:1423454.3/22

Left: 191.398 $\pm$ 0.024 χ^2 /NDF: 3412539.0/47

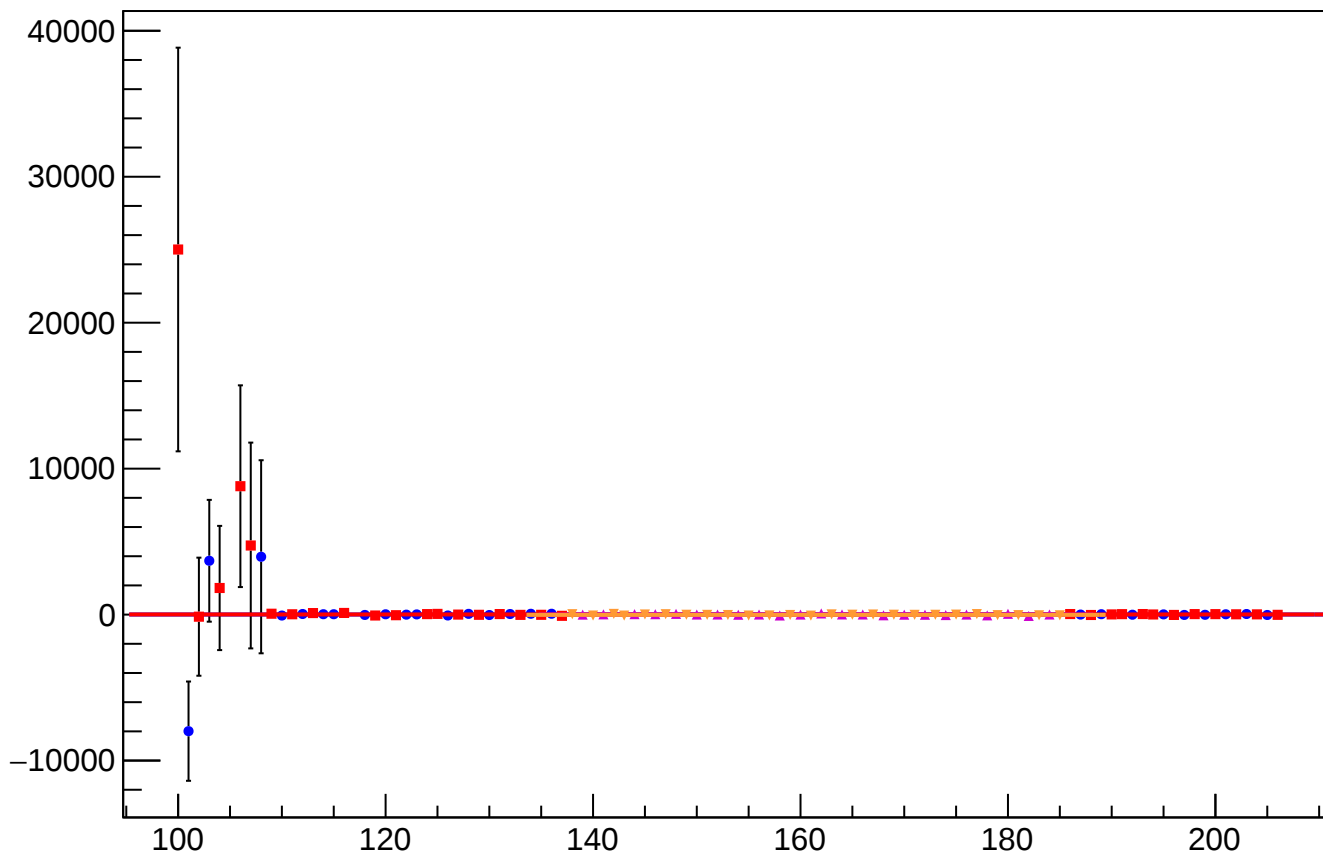
Right: 174.332 $\pm$ 0.026 χ^2 /NDF: 9810864.0/56

In: 179.709 $\pm$ 0.025 χ^2 /NDF:5940979.0/48

Out: 187.808 $\pm$ 0.025 χ^2 /NDF:7465096.2/55

All: 183.744 $\pm$ 0.017 χ^2 /NDF: 13459909.2/10

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.451+/-8.150 χ^2/NDF : 23.6/25

Left Out: -17.580+/-6.694 χ^2/NDF :22.3/24

Right Out: 11.162+/-7.625 χ^2/NDF : 30.0/30

Left In: 1.038+/-6.880 χ^2/NDF :32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

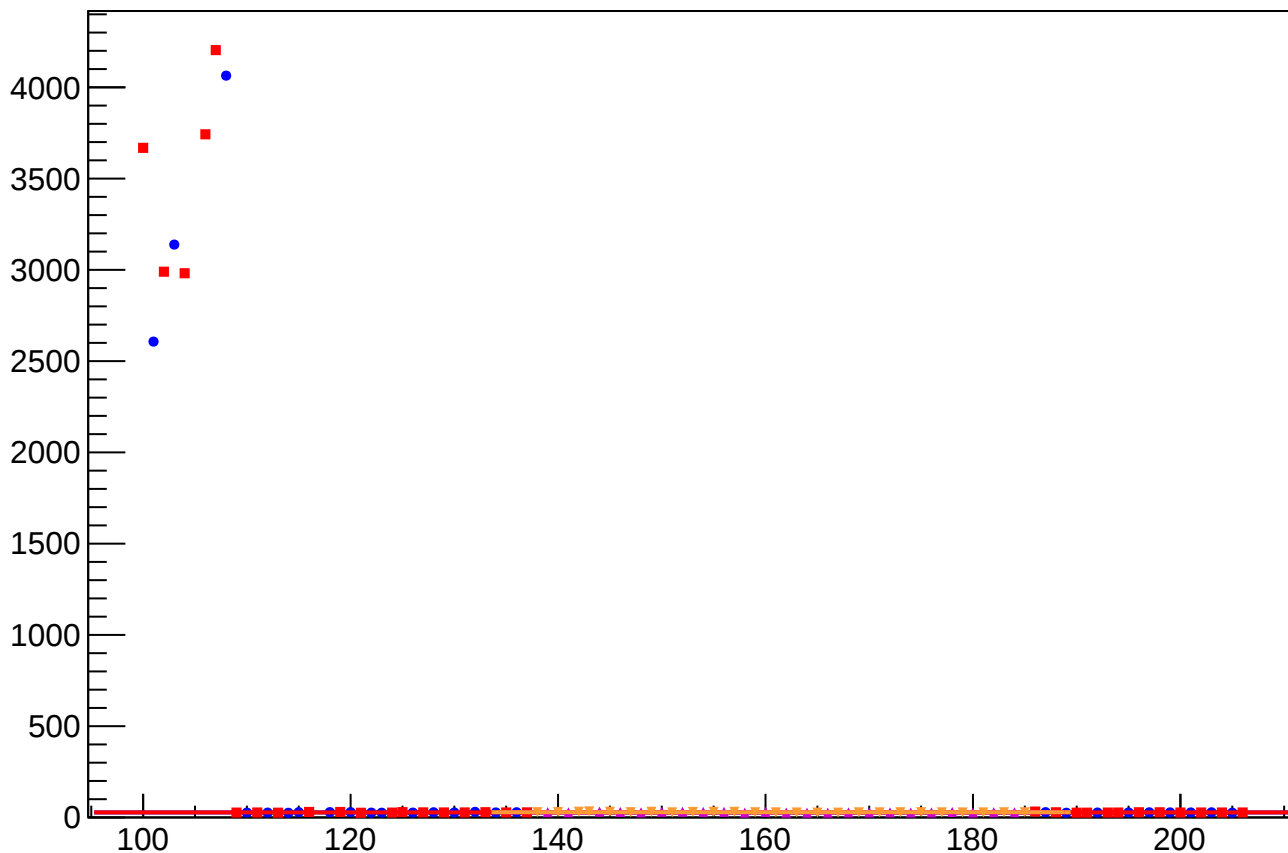
Right: 8.963+/-5.568 χ^2/NDF : 53.8/56

In: 3.290+/-5.257 χ^2/NDF :56.3/48

Out: -5.070+/-5.030 χ^2/NDF :60.4/55

All: -1.074+/-3.635 χ^2/NDF : 118.0/104

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.555+/-0.006 χ^2/NDF : 3040148.6/25

Left Out: 28.691+/-0.005 χ^2/NDF : 110483.8/24

Right Out: 27.594+/-0.005 χ^2/NDF : 3503326.8/30

Left In: 28.673+/-0.005 χ^2/NDF : 124751.4/22

Left: 28.682+/-0.003 χ^2/NDF : 235242.3/47

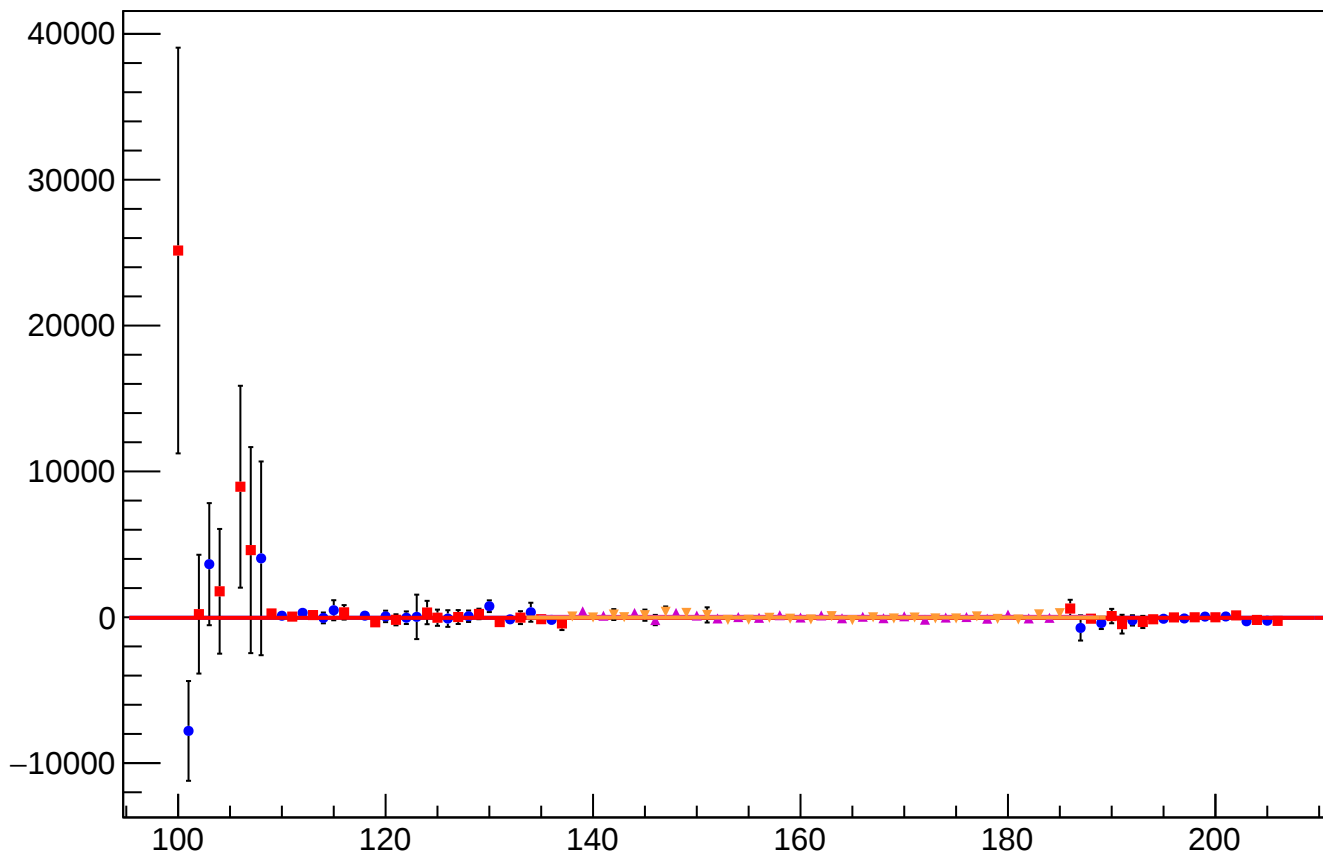
Right: 27.576+/-0.004 χ^2/NDF : 6543499.1/56

In: 28.208+/-0.004 χ^2/NDF : 3186847.5/48

Out: 28.213+/-0.004 χ^2/NDF : 3637185.0/55

All: 28.211+/-0.003 χ^2/NDF : 6824033.6/104

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -34.429+/-53.398 χ^2/NDF : 20.2/25

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: -39.404+/-50.650 χ^2/NDF : 18.3/30

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

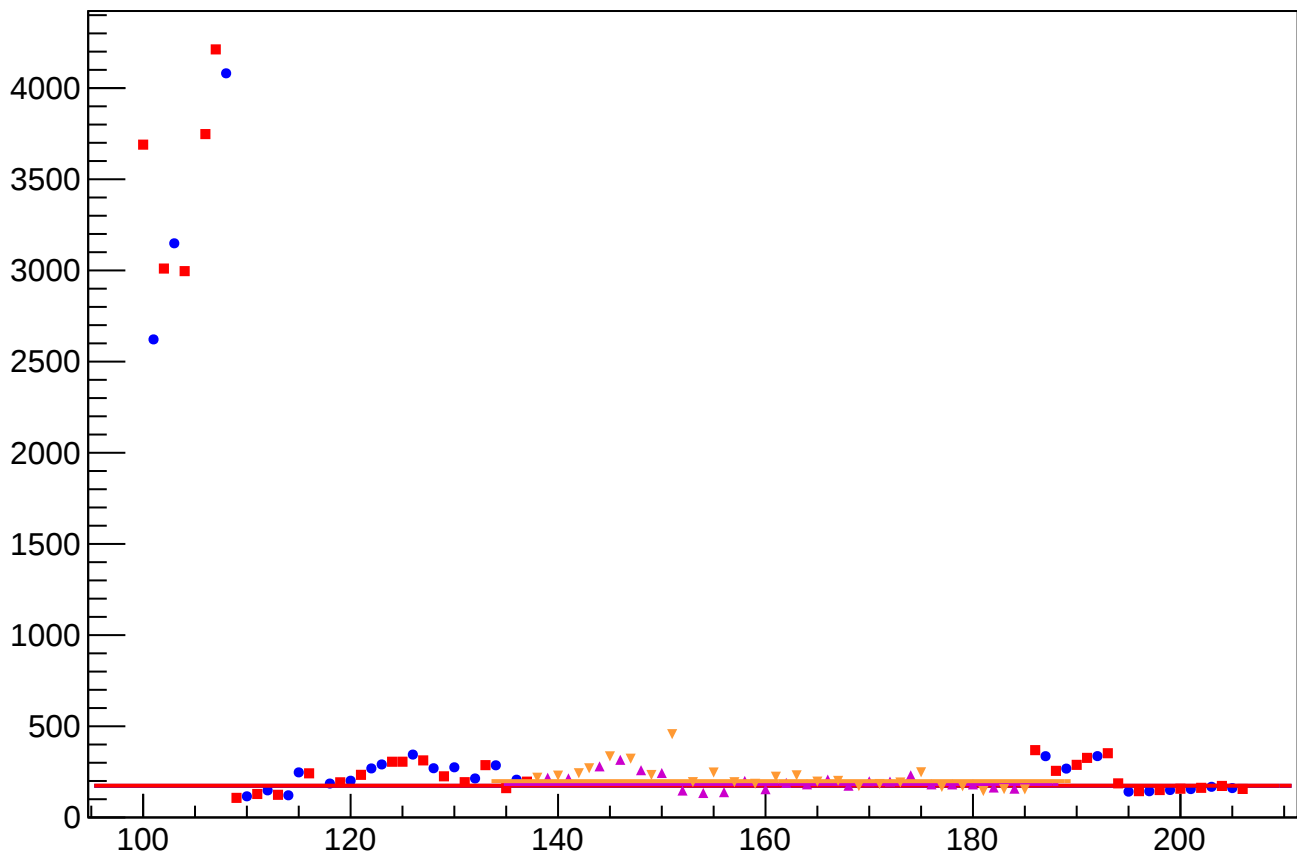
Right: -37.047+/-36.748 χ^2/NDF : 38.5/56

In: 0.979+/-34.757 χ^2/NDF : 28.8/48

Out: -26.828+/-34.882 χ^2/NDF : 27.1/55

All: -12.875+/-24.621 χ^2/NDF : 56.2/104

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.222 $\pm$ 0.038 χ^2 /NDF: 4488793.1/25

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 174.243 $\pm$ 0.036 χ^2 /NDF: 5352125.5/30

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

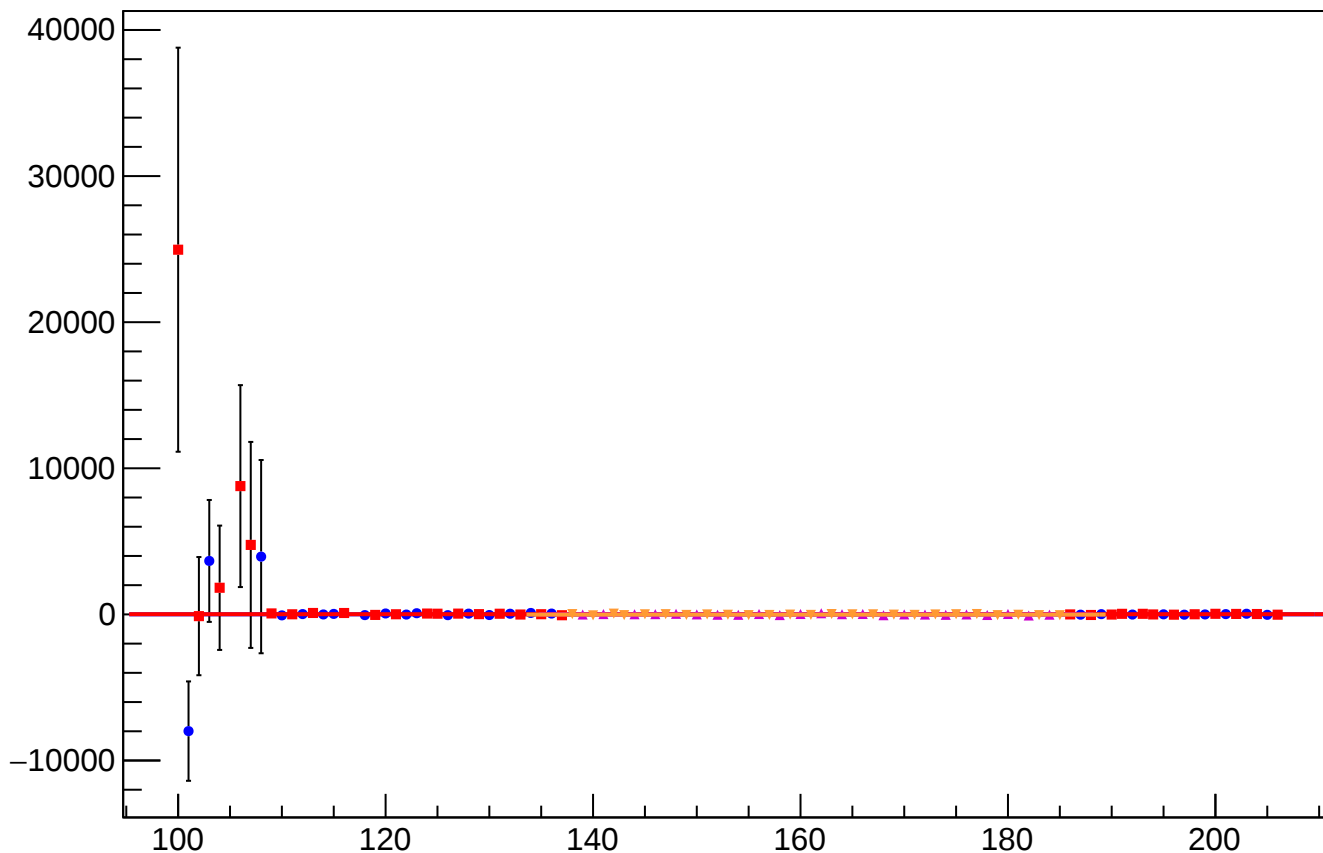
Right: 173.759 $\pm$ 0.026 χ^2 /NDF: 9841303.3/56

In: 179.242 $\pm$ 0.025 χ^2 /NDF:5955794.8/48

Out: 187.307 $\pm$ 0.025 χ^2 /NDF:7485585.1/55

All: 183.260 $\pm$ 0.017 χ^2 /NDF: 13495036.3/100

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.085+/-8.131 χ^2/NDF : 27.2/25

Left Out: -15.006+/-6.723 χ^2/NDF : 17.5/24

Right Out: 14.280+/-7.615 χ^2/NDF : 26.4/30

Left In: -0.702+/-6.909 χ^2/NDF : 26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

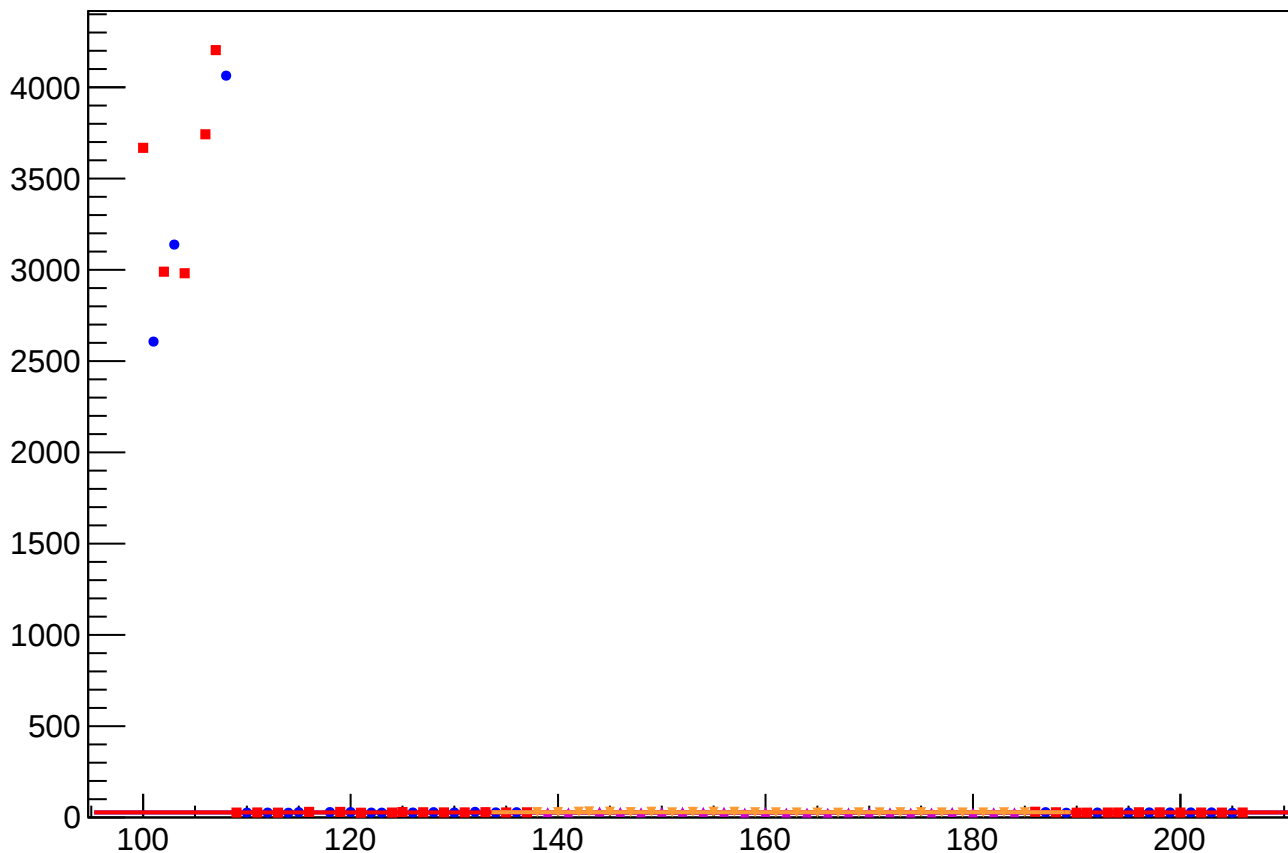
Right: 9.516+/-5.558 χ^2/NDF : 54.5/56

In: 1.305+/-5.265 χ^2/NDF : 53.8/48

Out: -2.178+/-5.040 χ^2/NDF : 52.2/55

All: -0.512+/-3.641 χ^2/NDF : 106.2/104

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.486 $\pm$ 0.006 χ^2 /NDF: 3045571.6/25

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF:121973.8/24

Right Out: 27.558 $\pm$ 0.005 χ^2 /NDF: 3503622.2/30

Left In: 28.792 $\pm$ 0.005 χ^2 /NDF:129393.1/22

Left: 28.803 $\pm$ 0.003 χ^2 /NDF: 251375.8/47

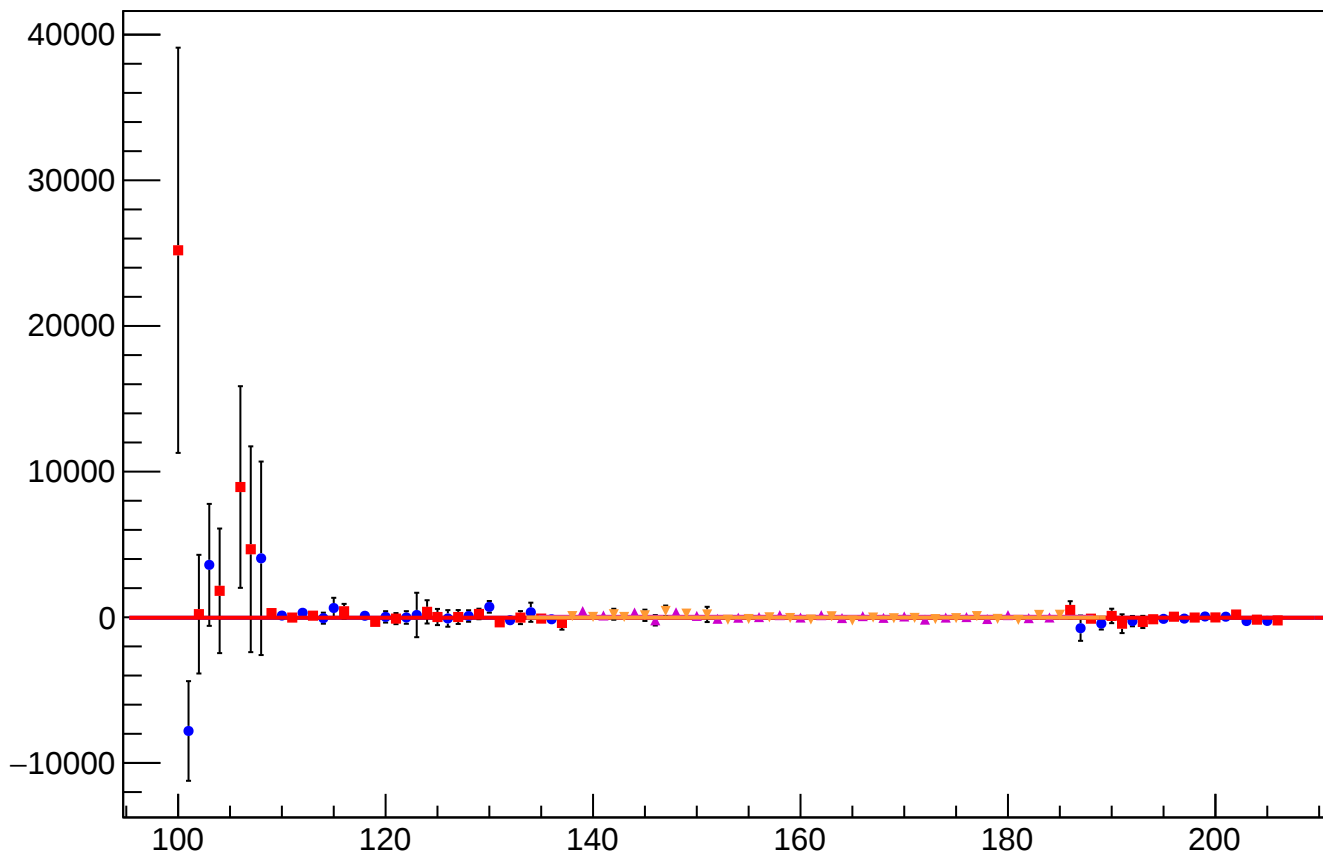
Right: 27.524 $\pm$ 0.004 χ^2 /NDF: 6549276.2/56

In: 28.245 $\pm$ 0.004 χ^2 /NDF:3204930.3/48

Out: 28.263 $\pm$ 0.004 χ^2 /NDF:3656111.1/55

All: 28.254 $\pm$ 0.003 χ^2 /NDF: 6861053.8/104

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -36.440 $\pm$ 53.774 χ^2 /NDF: 20.5/25

Left Out: -15.548 $\pm$ 48.688 χ^2 /NDF: 8.0/24

Right Out: -30.333 $\pm$ 51.033 χ^2 /NDF: 17.4/30

Left In: 31.170 $\pm$ 46.359 χ^2 /NDF: 8.2/22

Left: 8.955 $\pm$ 33.574 χ^2 /NDF: 16.6/47

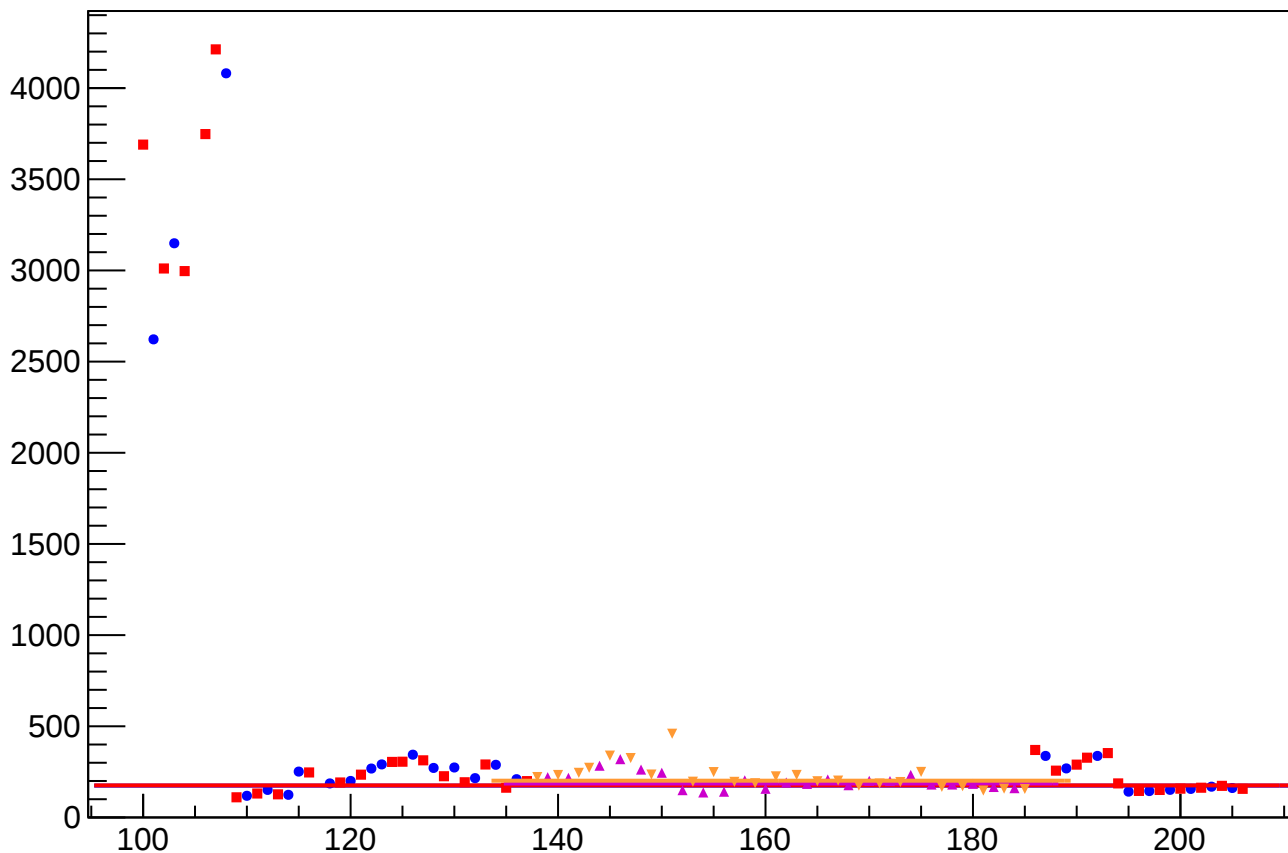
Right: -33.227 $\pm$ 37.017 χ^2 /NDF: 37.8/56

In: 2.344 $\pm$ 35.112 χ^2 /NDF: 29.6/48

Out: -22.593 $\pm$ 35.227 χ^2 /NDF: 25.4/55

All: -10.084 $\pm$ 24.869 χ^2 /NDF: 55.2/104

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.565+/-0.038 χ^2/NDF : 4457058.4/25

Left Out: 201.600+/-0.034 χ^2/NDF : 1857453.2/24

Right Out: 175.796+/-0.036 χ^2/NDF : 5292813.4/30

Left In: 186.107+/-0.033 χ^2/NDF : 1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

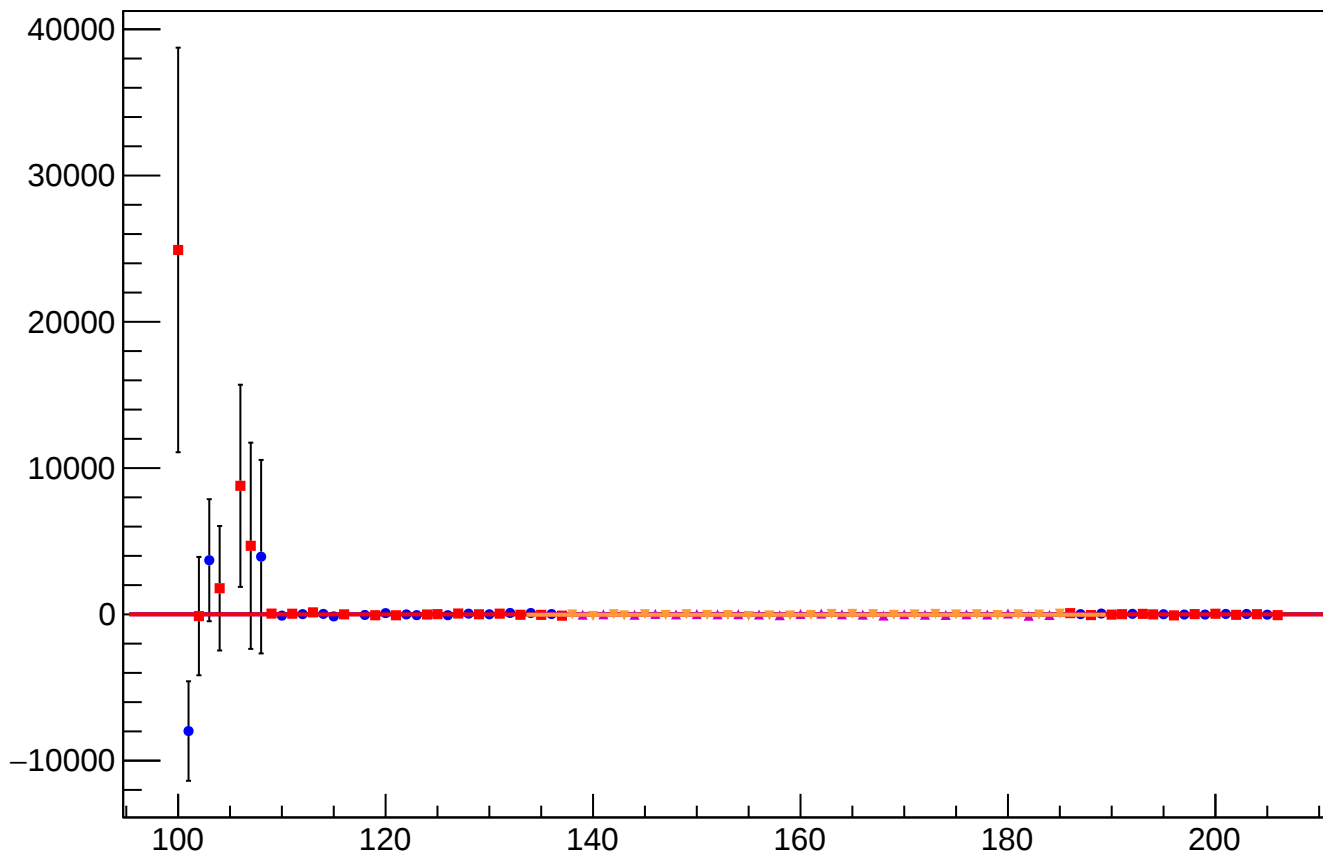
Right: 175.213+/-0.026 χ^2/NDF : 9750423.3/56

In: 181.186+/-0.025 χ^2/NDF : 5901240.1/48

Out: 189.304+/-0.025 χ^2/NDF : 7417949.0/55

All: 185.232+/-0.018 χ^2/NDF : 13372474.0/100

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.885+/-9.923 χ^2/NDF : 23.6/25

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: 0.596+/-9.278 χ^2/NDF : 34.5/30

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

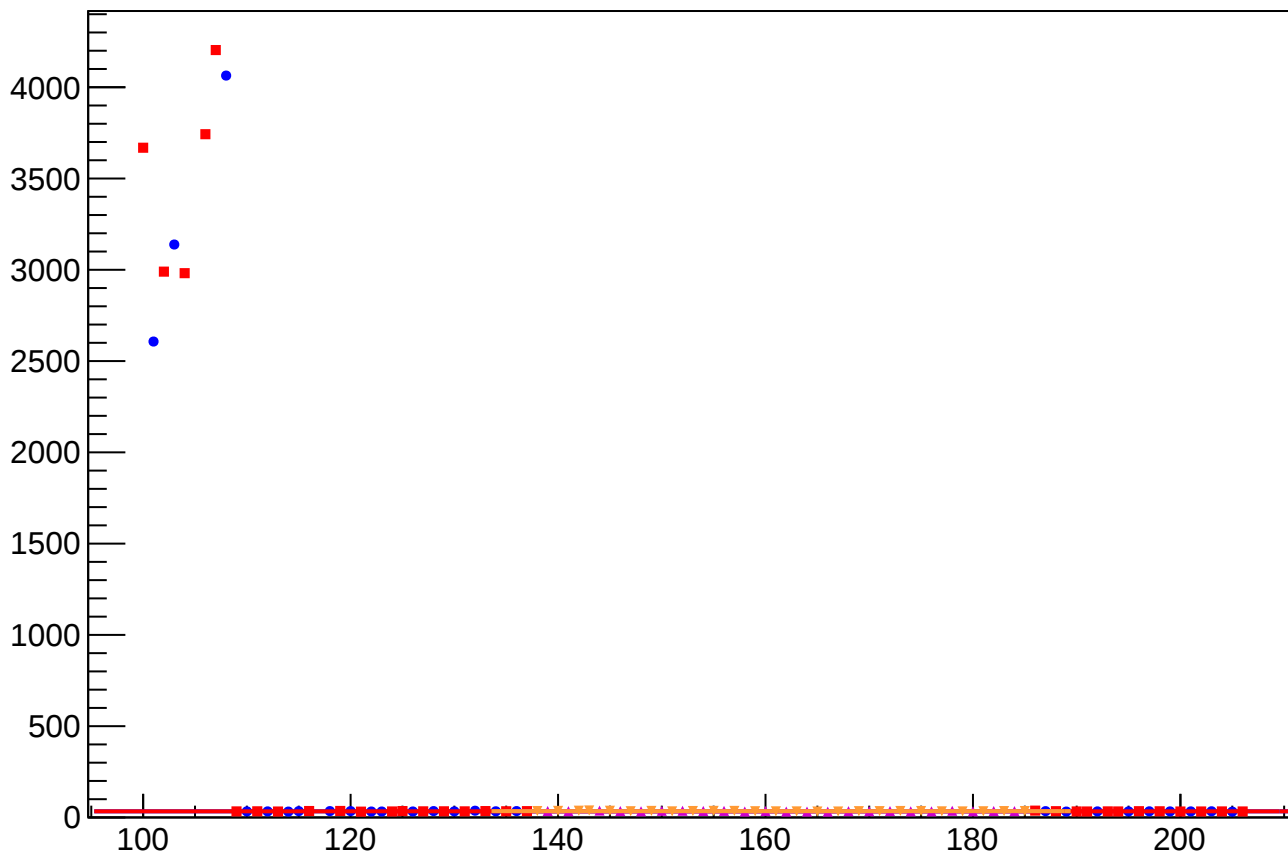
Right: 4.929+/-6.777 χ^2/NDF : 58.6/56

In: 0.547+/-6.370 χ^2/NDF : 46.2/48

Out: -13.050+/-6.087 χ^2/NDF : 64.1/55

All: -6.561+/-4.401 χ^2/NDF : 112.7/104

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.567 $\pm$ 0.007 χ^2 /NDF: 3017570.8/25

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.623 $\pm$ 0.007 χ^2 /NDF: 3467551.3/30

Left In: 34.685 $\pm$ 0.006 χ^2 /NDF: 60315.2/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 118335.7/47

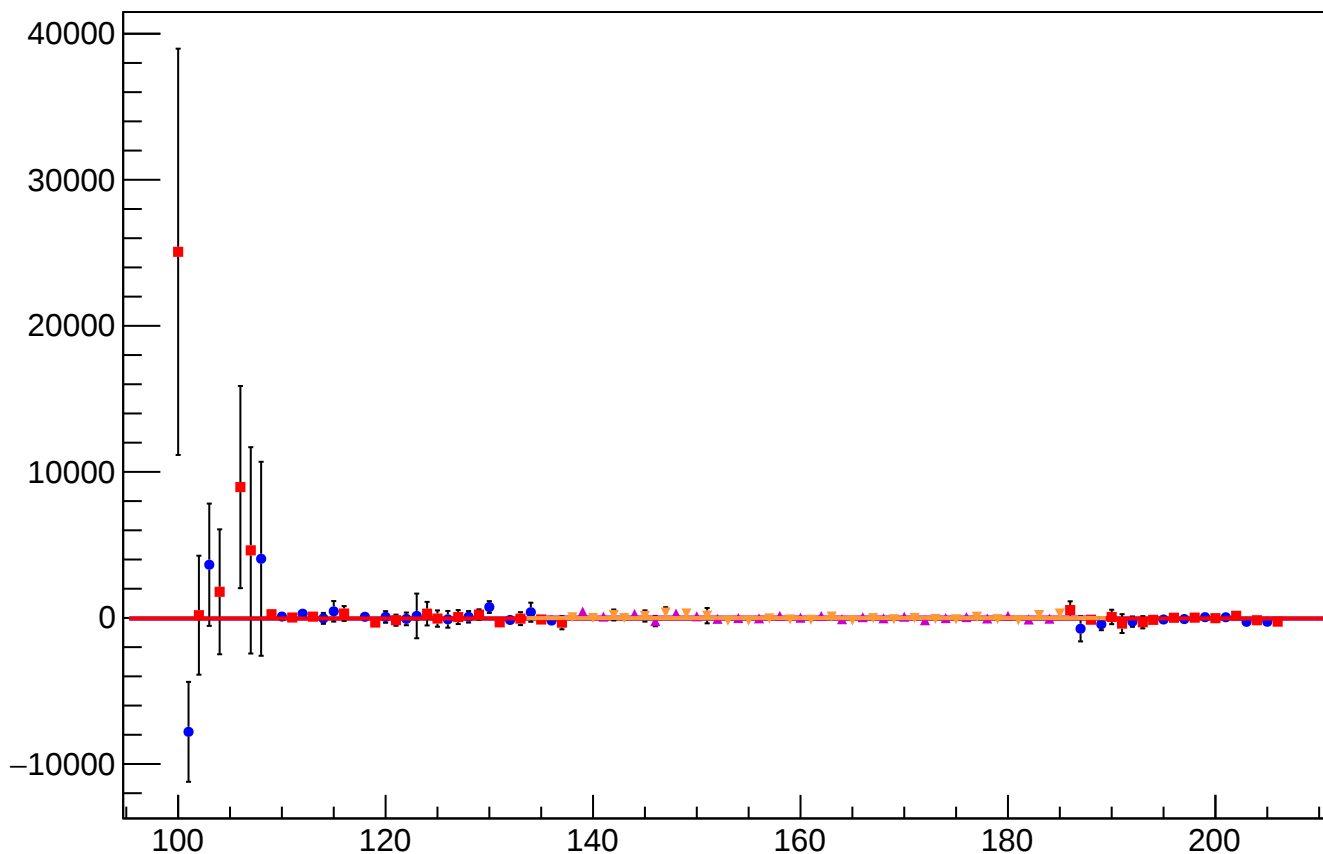
Right: 33.597 $\pm$ 0.005 χ^2 /NDF: 6485155.7/56

In: 34.224 $\pm$ 0.005 χ^2 /NDF: 3092810.9/48

Out: 34.188 $\pm$ 0.004 χ^2 /NDF: 3538513.4/55

All: 34.205 $\pm$ 0.003 χ^2 /NDF: 6631358.9/104

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -40.101 ± 53.612 χ^2/NDF : 20.2/25

Left Out: -8.916 ± 48.615 χ^2/NDF : 8.6/24

Right Out: -36.562 ± 50.833 χ^2/NDF : 16.3/30

Left In: 34.127 ± 46.296 χ^2/NDF : 7.4/22

Left: 13.656 ± 33.526 χ^2/NDF : 16.5/47

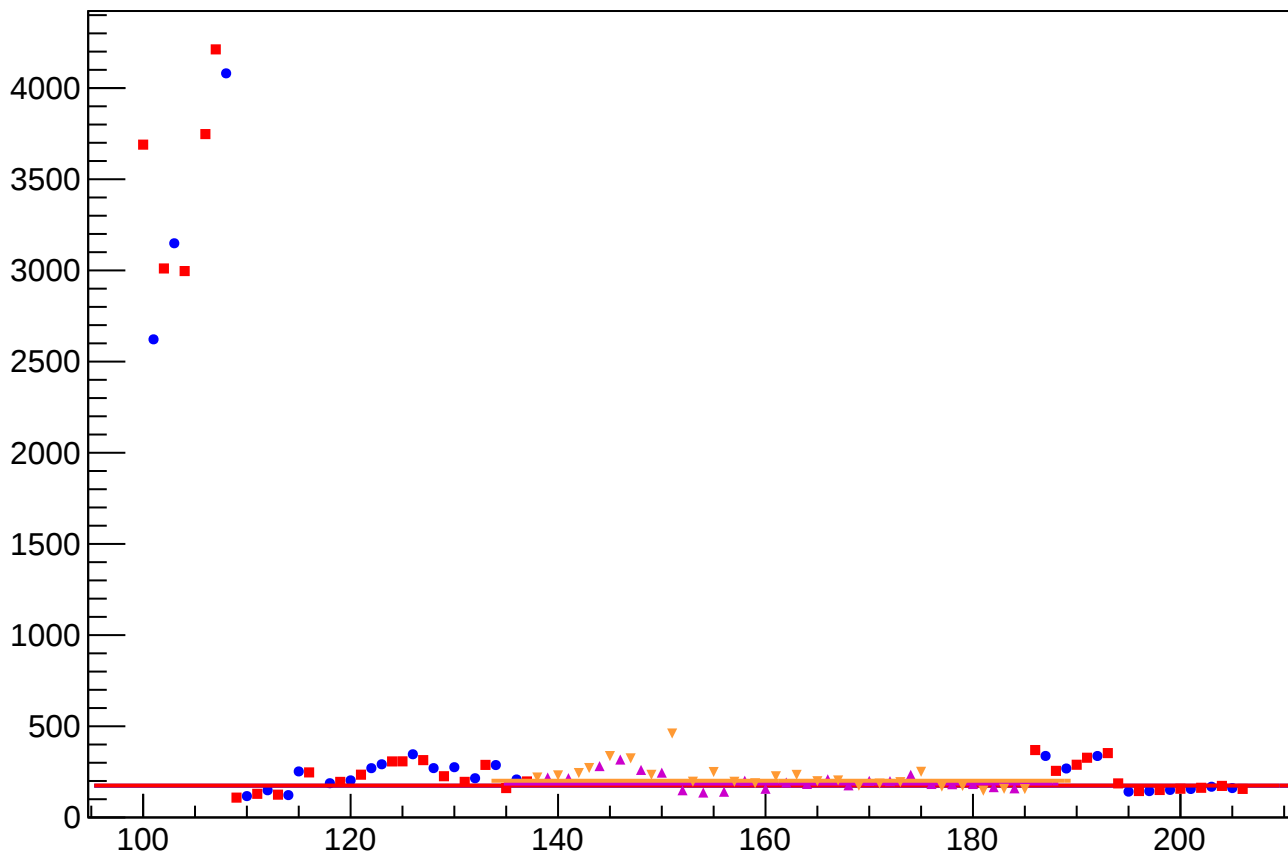
Right: -38.237 ± 36.888 χ^2/NDF : 36.5/56

In: 2.419 ± 35.040 χ^2/NDF : 28.7/48

Out: -22.123 ± 35.134 χ^2/NDF : 25.0/55

All: -9.819 ± 24.810 χ^2/NDF : 54.0/104

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.930 $\pm$ 0.038 χ^2 /NDF: 4486420.9/25

Left Out: 201.296 $\pm$ 0.034 χ^2 /NDF:1851134.1/24

Right Out: 174.923 $\pm$ 0.036 χ^2 /NDF: 5341665.9/30

Left In: 185.854 $\pm$ 0.033 χ^2 /NDF:1381771.9/22

Left: 193.198 $\pm$ 0.024 χ^2 /NDF: 3338733.9/47

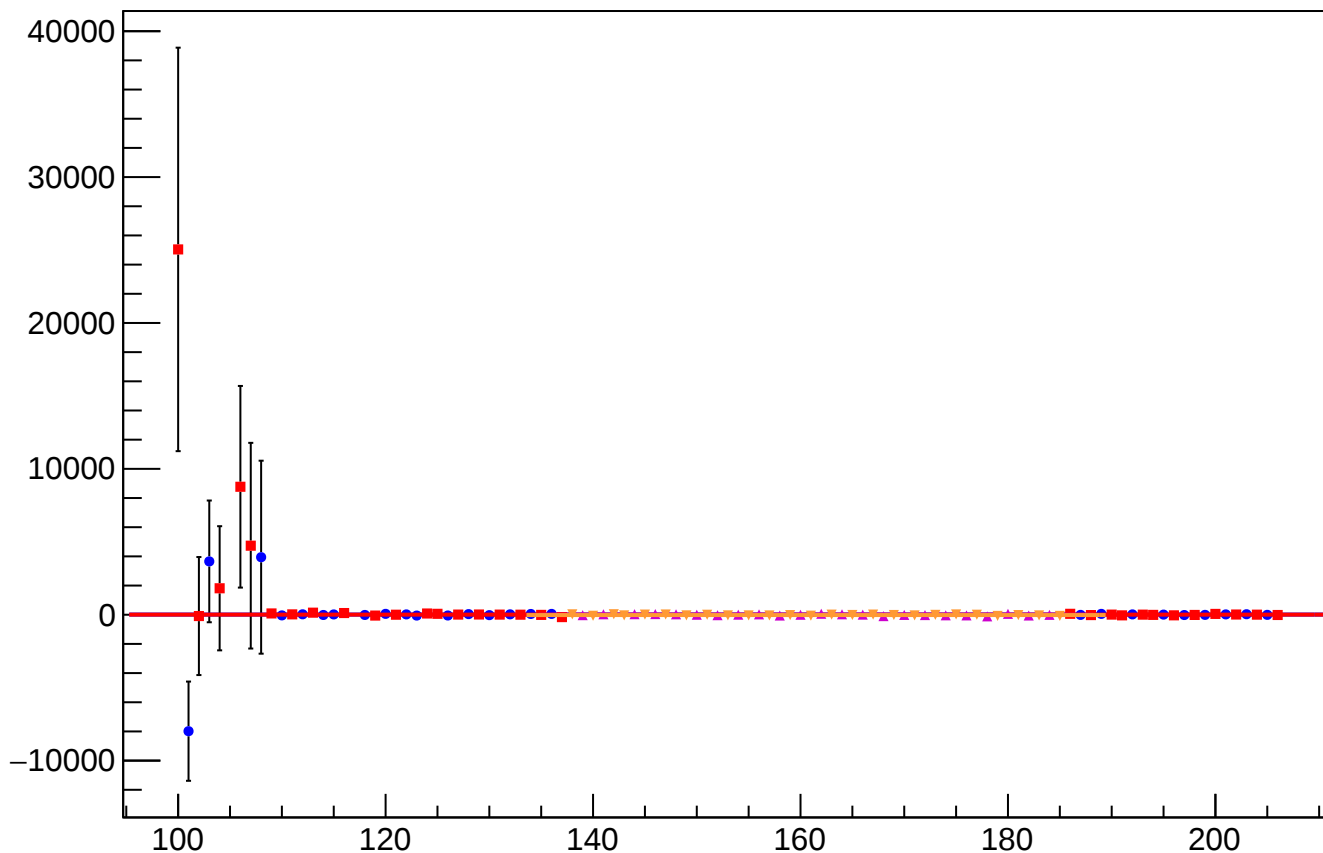
Right: 174.453 $\pm$ 0.026 χ^2 /NDF: 9828447.8/56

In: 180.761 $\pm$ 0.025 χ^2 /NDF:5924860.7/48

Out: 188.698 $\pm$ 0.025 χ^2 /NDF:7473979.1/55

All: 184.718 $\pm$ 0.018 χ^2 /NDF: 13450012.2/100

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.393+/-8.986 χ^2/NDF : 18.1/25

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 7.372+/-8.404 χ^2/NDF : 37.3/30

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

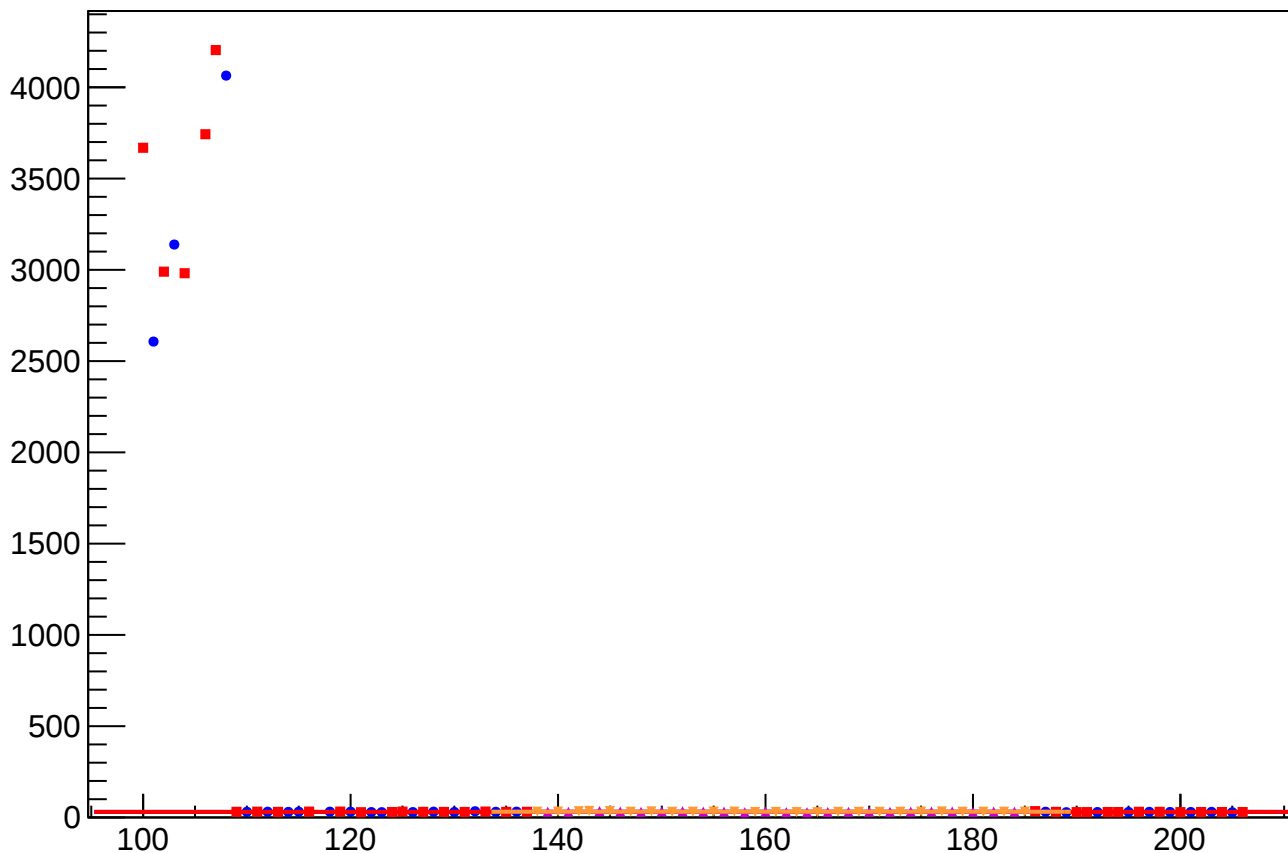
Right: 9.248+/-6.138 χ^2/NDF : 55.5/56

In: 1.231+/-5.780 χ^2/NDF : 58.6/48

Out: -9.788+/-5.528 χ^2/NDF : 63.4/55

All: -4.524+/-3.995 χ^2/NDF : 123.9/104

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.386 $\pm$ 0.006 χ^2 /NDF: 3034551.0/25

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.431 $\pm$ 0.006 χ^2 /NDF: 3483907.8/30

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

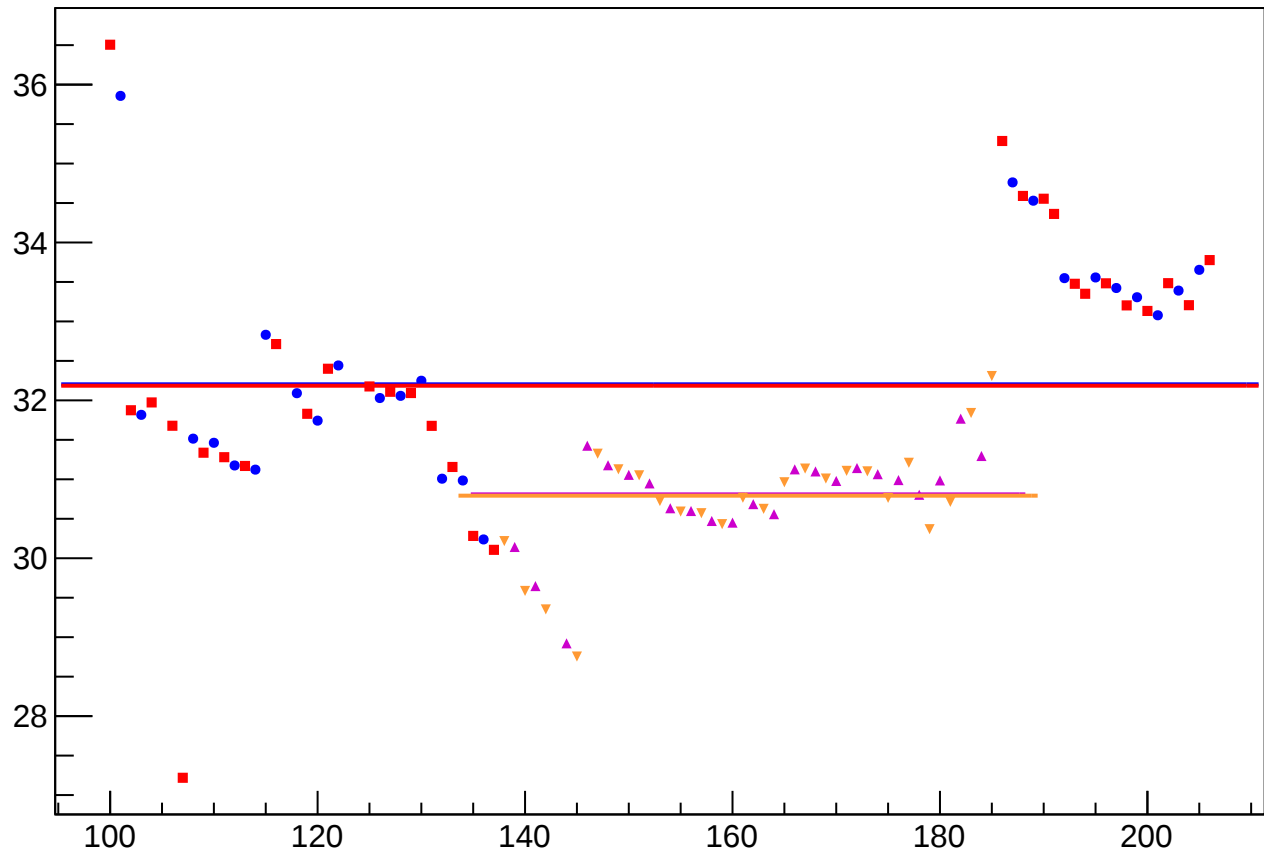
Right: 30.410 $\pm$ 0.004 χ^2 /NDF: 6518484.9/56

In: 31.030 $\pm$ 0.004 χ^2 /NDF:3140047.1/48

Out: 31.027 $\pm$ 0.004 χ^2 /NDF:3584094.1/55

All: 31.028 $\pm$ 0.003 χ^2 /NDF: 6724141.4/104

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.203+/-0.000 χ^2/NDF : 2400595222.1/24

Left Out: 30.793+/-0.000 χ^2/NDF : 1007261340.7/23

Right Out: 32.186+/-0.000 χ^2/NDF : 2332287518.2/29

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000 χ^2/NDF : 1829591088.1/46

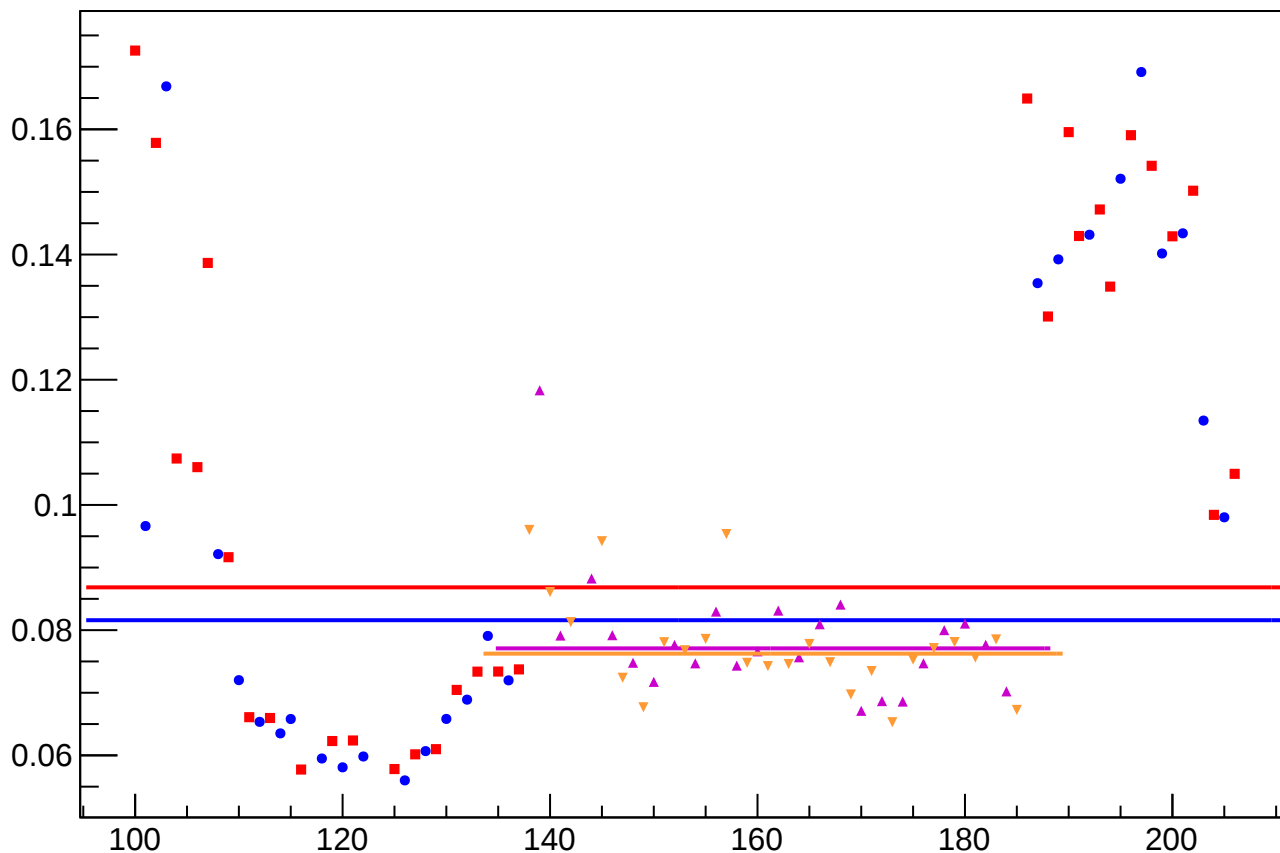
Right: 32.194+/-0.000 χ^2/NDF : 4733129904.2/54

In: 31.330+/-0.000 χ^2/NDF : 5159209858.6/47

Out: 31.310+/-0.000 χ^2/NDF : 5327000388.6/53

All: 31.320+/-0.000 χ^2/NDF : 10487133101.8

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.082+/-0.000 χ^2/NDF : 3068612.5/24

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.087+/-0.000 χ^2/NDF : 3605774.3/29

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

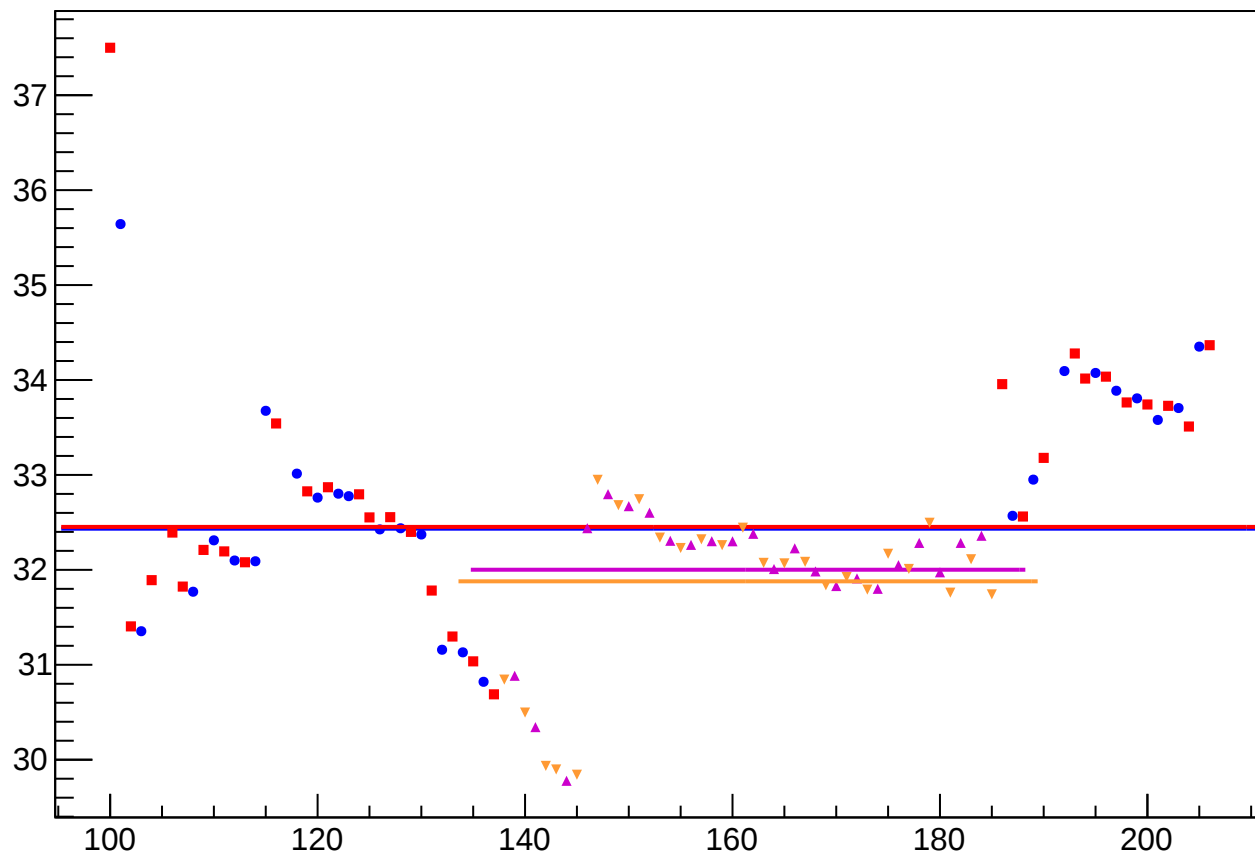
Right: 0.084+/-0.000 χ^2/NDF : 6718720.4/54

In: 0.079+/-0.000 χ^2/NDF : 3434769.4/47

Out: 0.080+/-0.000 χ^2/NDF : 4113249.1/53

All: 0.079+/-0.000 χ^2/NDF : 7556559.2/101

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.434+/-0.000 χ^2/NDF : 1328655740.7/25

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.452+/-0.000 χ^2/NDF : 862401173.5/29

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

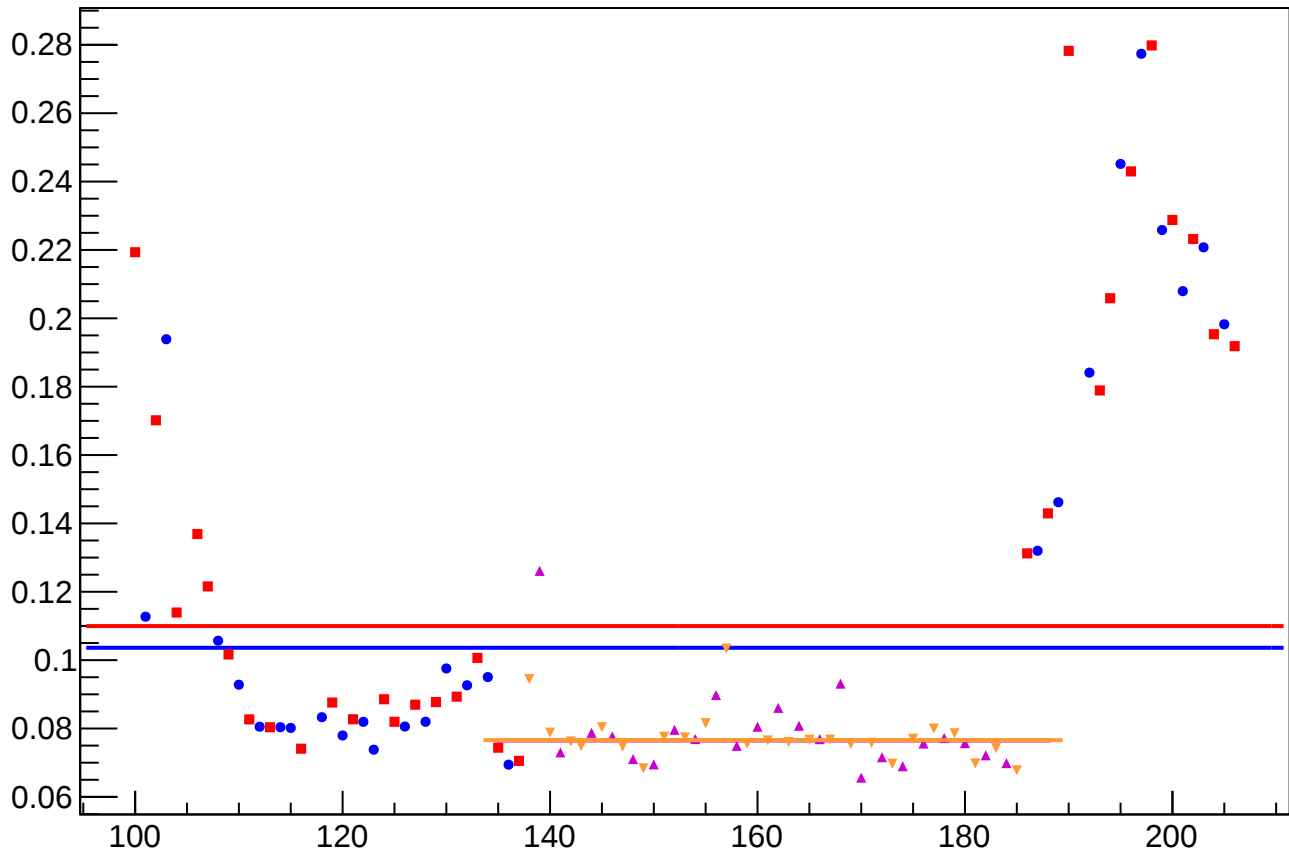
Right: 32.443+/-0.000 χ^2/NDF : 2191223038.2/55

In: 32.110+/-0.000 χ^2/NDF : 2869339569.9/48

Out: 32.023+/-0.000 χ^2/NDF : 3075237012.4/54

All: 32.066+/-0.000 χ^2/NDF : 5959058501.4/131

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.104+/-0.000 χ^2/NDF : 4186167.3/25

Left Out: 0.077+/-0.000 χ^2/NDF : 209648.5/24

Right Out: 0.110+/-0.000 χ^2/NDF : 4376815.9/29

Left In: 0.076+/-0.000 χ^2/NDF : 432563.3/22

Left: 0.077+/-0.000 χ^2/NDF : 642235.6/47

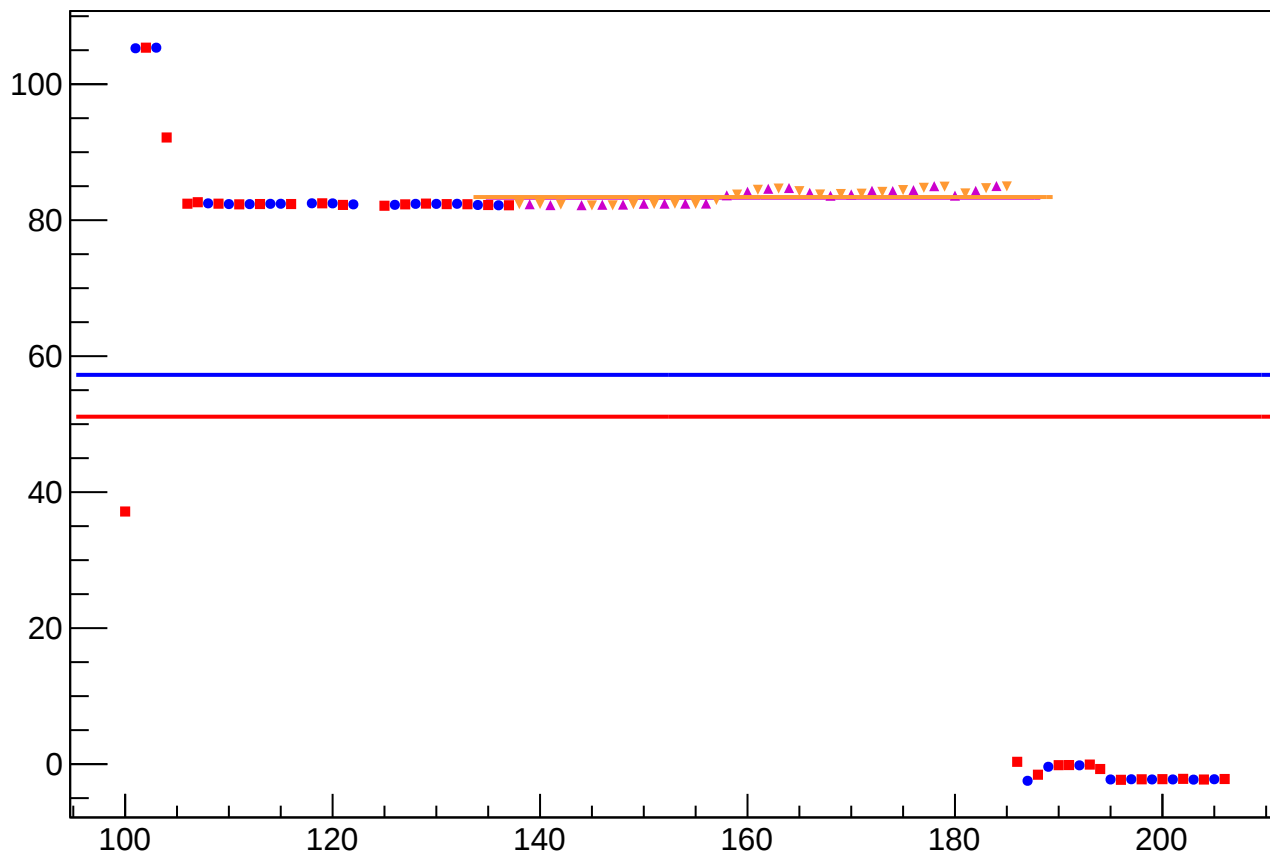
Right: 0.107+/-0.000 χ^2/NDF : 8600938.7/55

In: 0.083+/-0.000 χ^2/NDF : 5638645.6/48

Out: 0.085+/-0.000 χ^2/NDF : 6190053.4/54

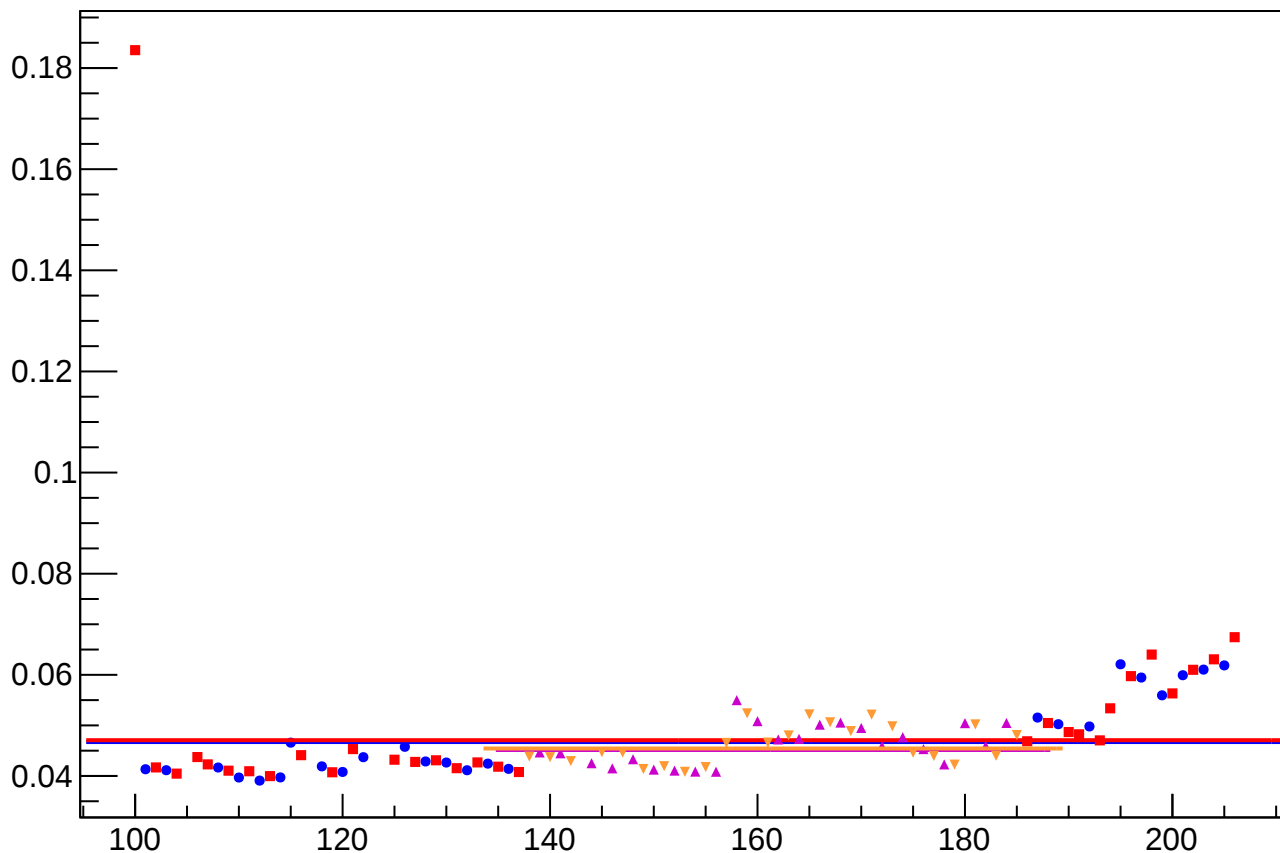
All: 0.084+/-0.000 χ^2/NDF : 11838288.1/103

yield_dsl_mean vs Slug, Sign Corrected



Right In: 57.251+/-0.000 χ^2/NDF : 9973917414782.0/24
 Left Out: 83.402+/-0.000 χ^2/NDF : 8756634444.3/23
 Right Out: 51.099+/-0.000 χ^2/NDF : 11528413992773.5/29
 Left In: 83.309+/-0.000 χ^2/NDF : 8421247810.9/22
 Left: 83.355+/-0.000 χ^2/NDF : 17213898269.1/46
 Right: 53.975+/-0.000 χ^2/NDF : 21615661070841.2/46
 In: 72.801+/-0.000 χ^2/NDF : 12260240133942.0/47
 Out: 69.320+/-0.000 χ^2/NDF : 15306966756374.3/50
 All: 71.014+/-0.000 χ^2/NDF : 2765388422199.1/46

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047+/-0.000 χ^2/NDF : 675380.7/24

Left Out: 0.045+/-0.000 χ^2/NDF :206685.9/23

Right Out: 0.047+/-0.000 χ^2/NDF : 842763.5/29

Left In: 0.045+/-0.000 χ^2/NDF :242885.4/22

Left: 0.045+/-0.000 χ^2/NDF : 450258.5/46

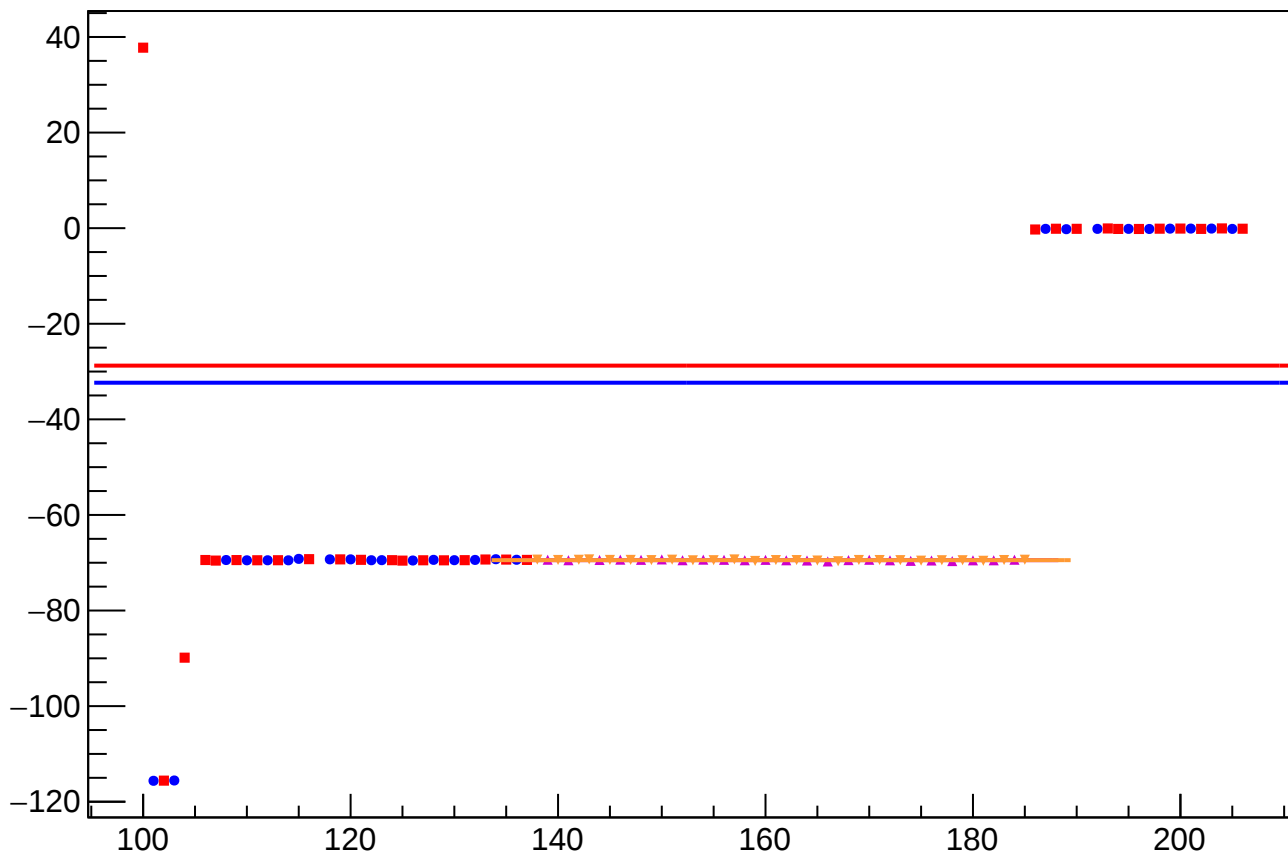
Right: 0.047+/-0.000 χ^2/NDF : 1518951.0/54

In: 0.046+/-0.000 χ^2/NDF :934725.3/47

Out: 0.046+/-0.000 χ^2/NDF :1069015.8/53

All: 0.046+/-0.000 χ^2/NDF : 2005736.6/101

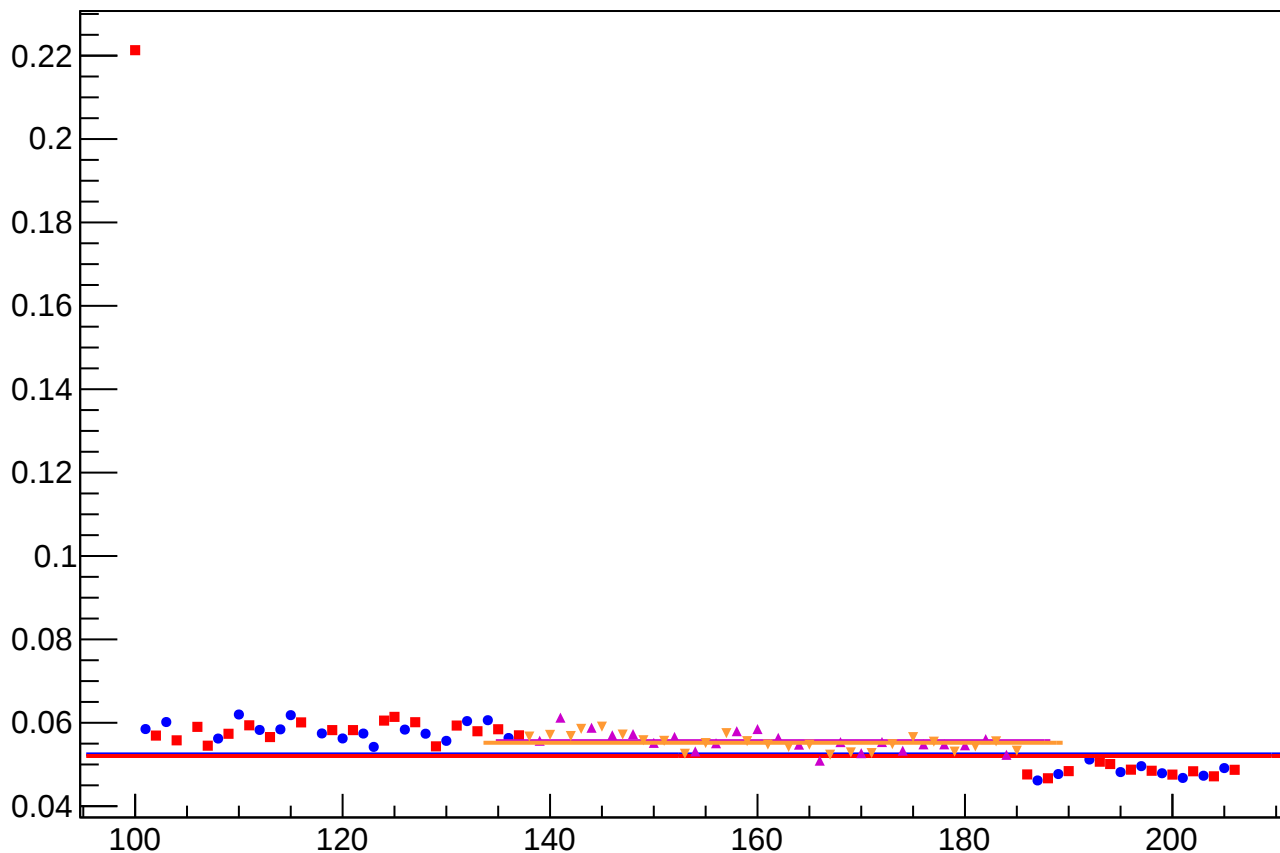
yield_dsr_mean vs Slug, Sign Corrected



Right In: -32.336+/-0.000 χ^2/NDF : 7140412491236.6/25
 Left Out: -69.461+/-0.000 χ^2/NDF : 49572401.9/24
 Right Out: -28.760+/-0.000 χ^2/NDF : 7325679650625.8/29
 Left In: -69.458+/-0.000 χ^2/NDF : 52798704.3/22

Left: -69.460+/-0.000 χ^2/NDF : 102399164.0/47
 Right: -30.413+/-0.000 χ^2/NDF : 14497447303567.4
 In: -52.545+/-0.000 χ^2/NDF : 10562174744669.6/4
 Out: -50.075+/-0.000 χ^2/NDF : 11926088942045.6/
 All: -51.245+/-0.000 χ^2/NDF : 225204316660

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 225400.9/25

Left Out: 0.055+/-0.000 χ^2/NDF : 38761.8/24

Right Out: 0.052+/-0.000 χ^2/NDF : 322744.9/29

Left In: 0.056+/-0.000 χ^2/NDF : 52190.5/22

Left: 0.055+/-0.000 χ^2/NDF : 91784.6/47

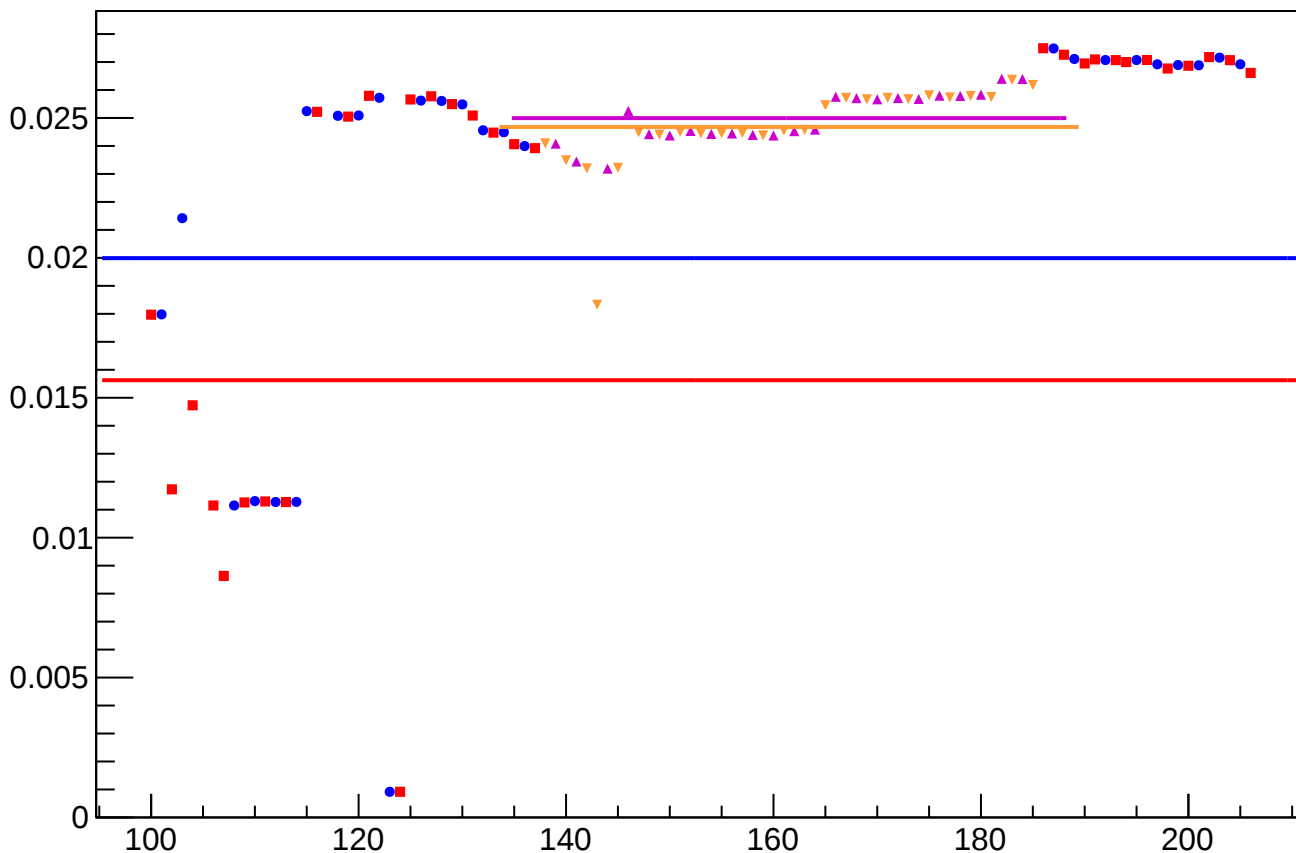
Right: 0.052+/-0.000 χ^2/NDF : 548847.3/55

In: 0.054+/-0.000 χ^2/NDF : 327759.2/48

Out: 0.054+/-0.000 χ^2/NDF : 417398.8/54

All: 0.054+/-0.000 χ^2/NDF : 747266.9/103

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.020+/-0.000

χ^2/NDF : 178294484077.2/25

Left: 0.025+/-0.000 χ^2/NDF : 12284812437.7/47

Right: 0.017+/-0.000 χ^2/NDF : 601161002458.5/56

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

In: 0.023+/-0.000 χ^2/NDF : 216617950691.0/48

Right Out: 0.016+/-0.000

χ^2/NDF : 396330384962.0/30

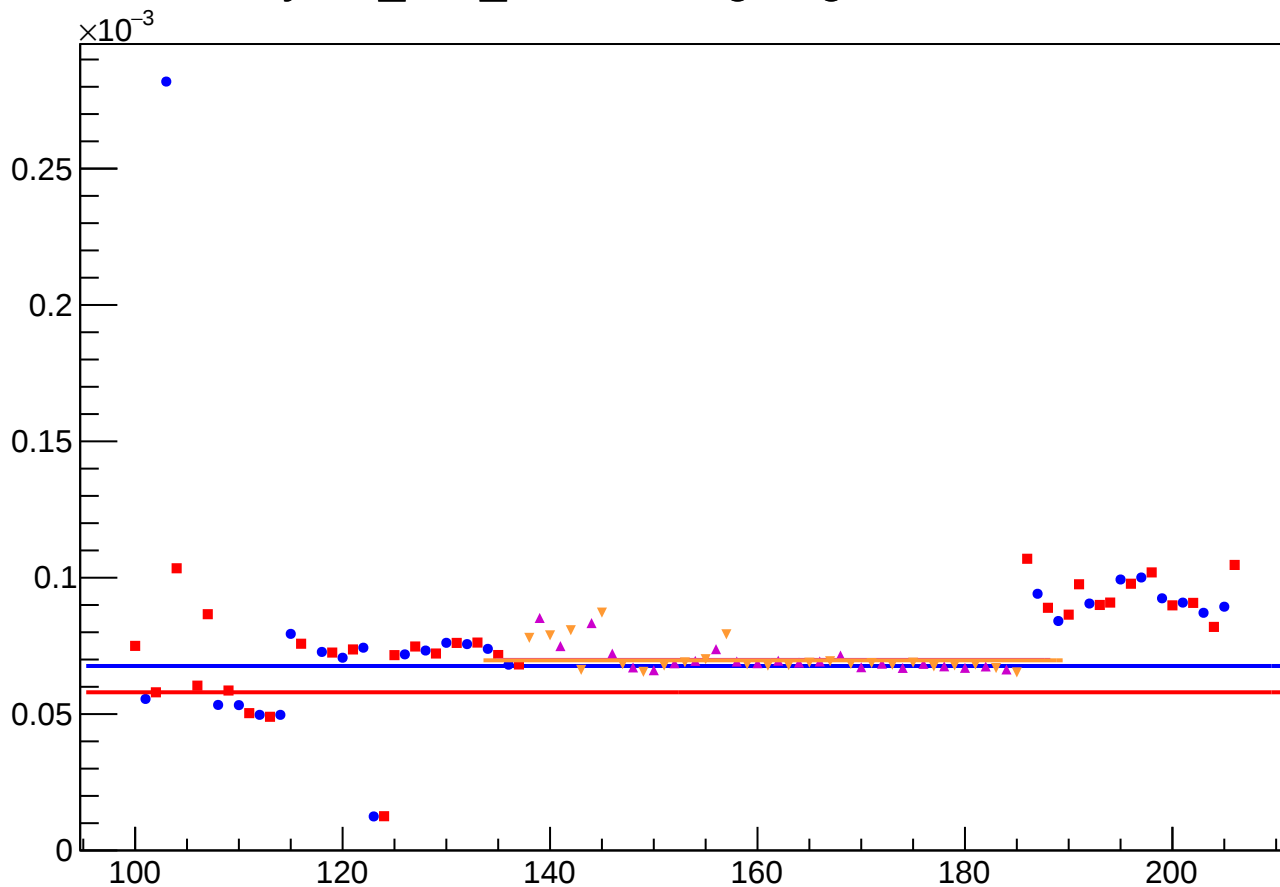
Out: 0.020+/-0.000 χ^2/NDF : 549281897937.5/55

Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000 χ^2/NDF : 786635683333.4

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3259531.3/25

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 6705716.0/30

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

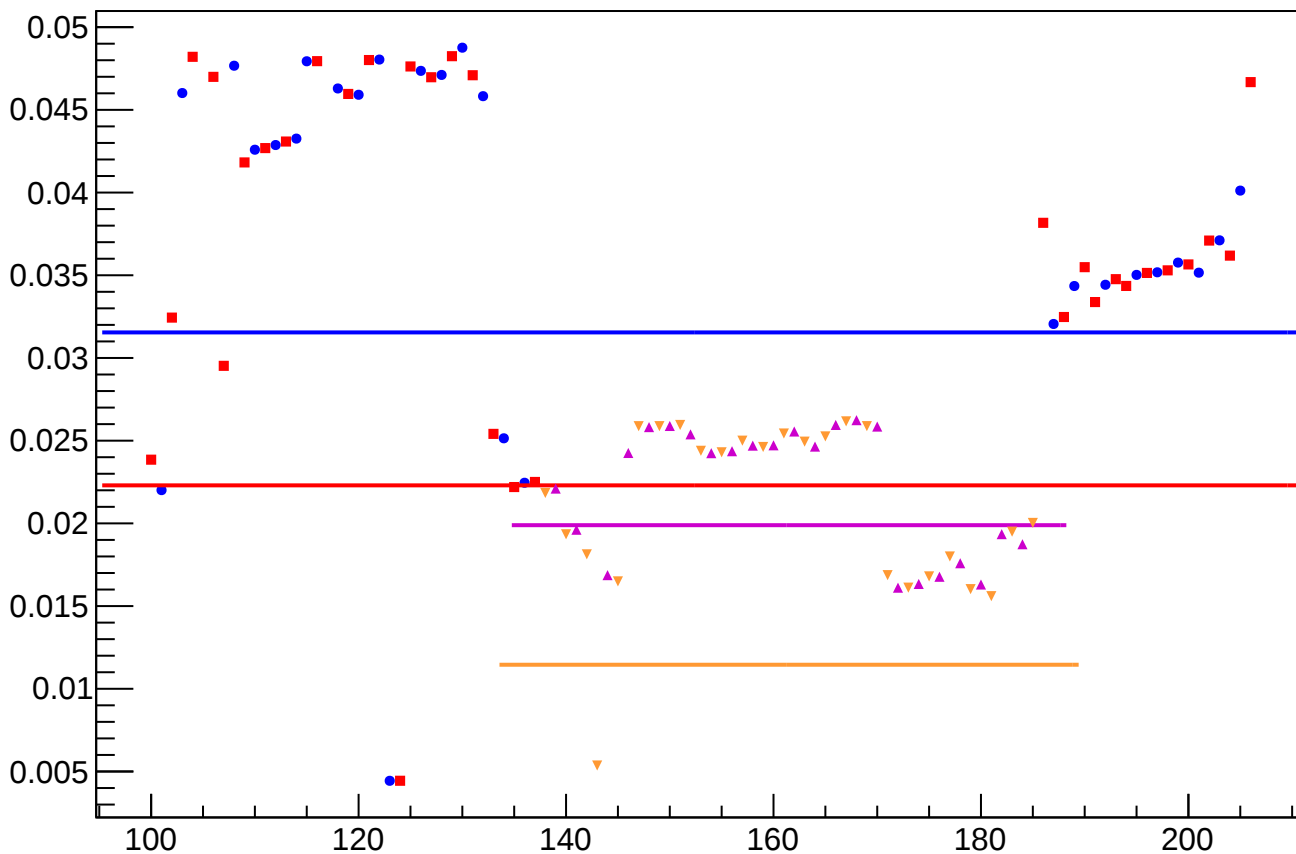
Right: 0.000+/-0.000 χ^2/NDF : 10224417.1/56

In: 0.000+/-0.000 χ^2/NDF :3402945.3/48

Out: 0.000+/-0.000 χ^2/NDF :7344426.6/55

All: 0.000+/-0.000 χ^2/NDF : 10892603.9/104

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 21409774990.6/25

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.026+/-0.000

χ^2/NDF : 70214689529.7/56

Right Out: 0.022+/-0.000

χ^2/NDF : 44280788675.8/30

In: 0.023+/-0.000

χ^2/NDF : 34882356474.3/48

Out: 0.013+/-0.000

χ^2/NDF : 98176290863.5/55

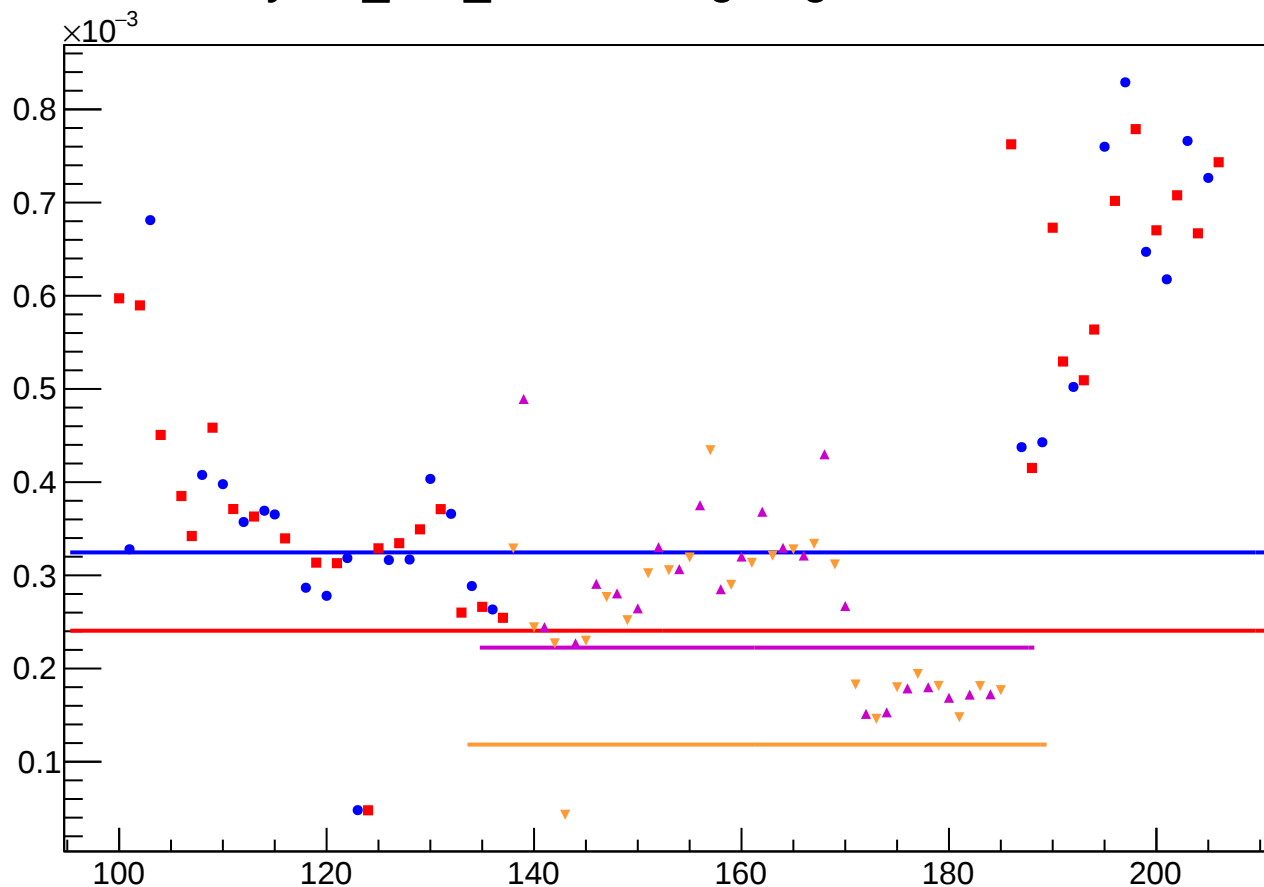
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 155875978300.3

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5937157.1/25

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11972573.7/30

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

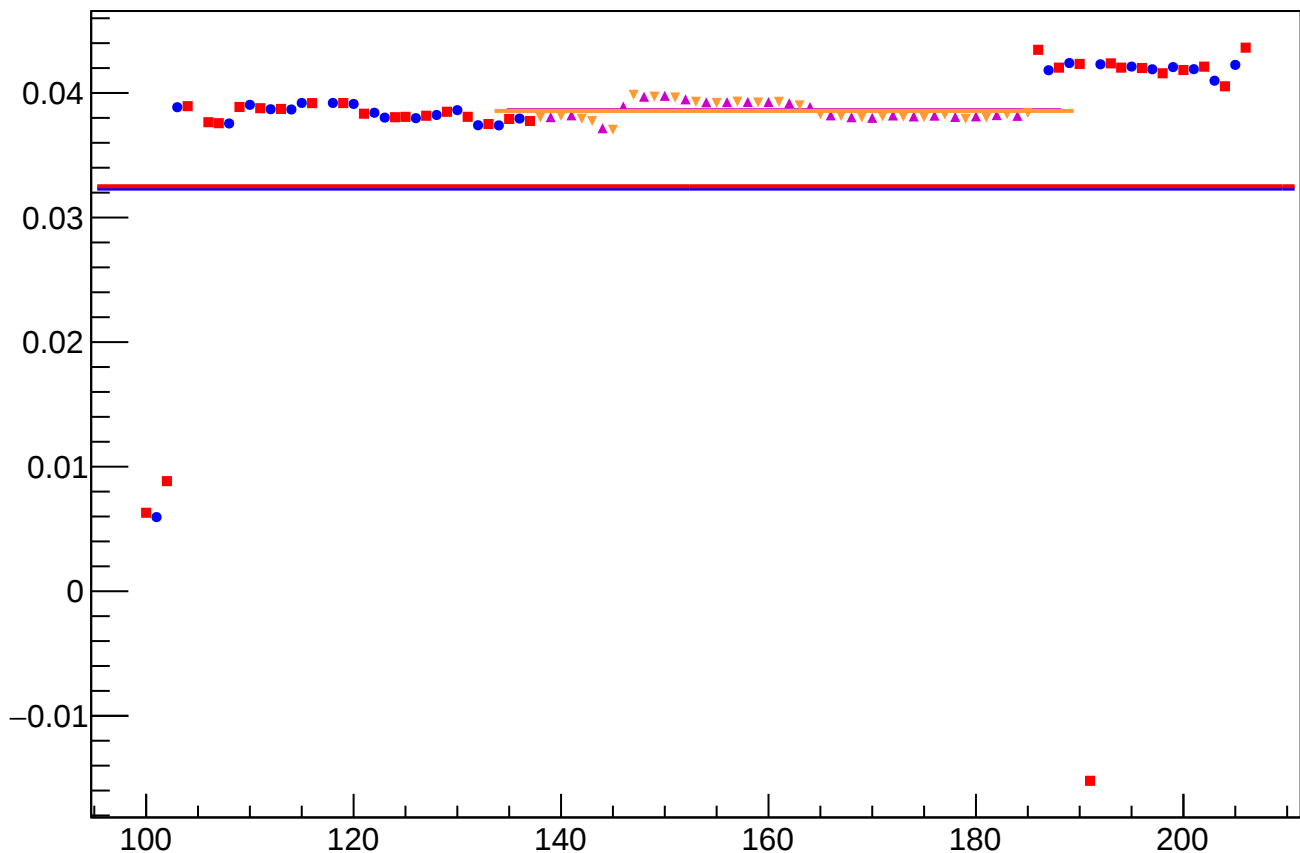
Right: 0.000+/-0.000 χ^2/NDF : 18656678.6/56

In: 0.000+/-0.000 χ^2/NDF :10603685.6/48

Out: 0.000+/-0.000 χ^2/NDF :28988556.7/55

All: 0.000+/-0.000 χ^2/NDF : 45647643.7/104

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 111567903890.7/25

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.032+/-0.000

χ^2/NDF : 292609237671.4/56

Right Out: 0.033+/-0.000

χ^2/NDF : 181029816564.9/30

In: 0.036+/-0.000

χ^2/NDF : 126931764920.5/48

Out: 0.036+/-0.000

χ^2/NDF : 196418532253.9/55

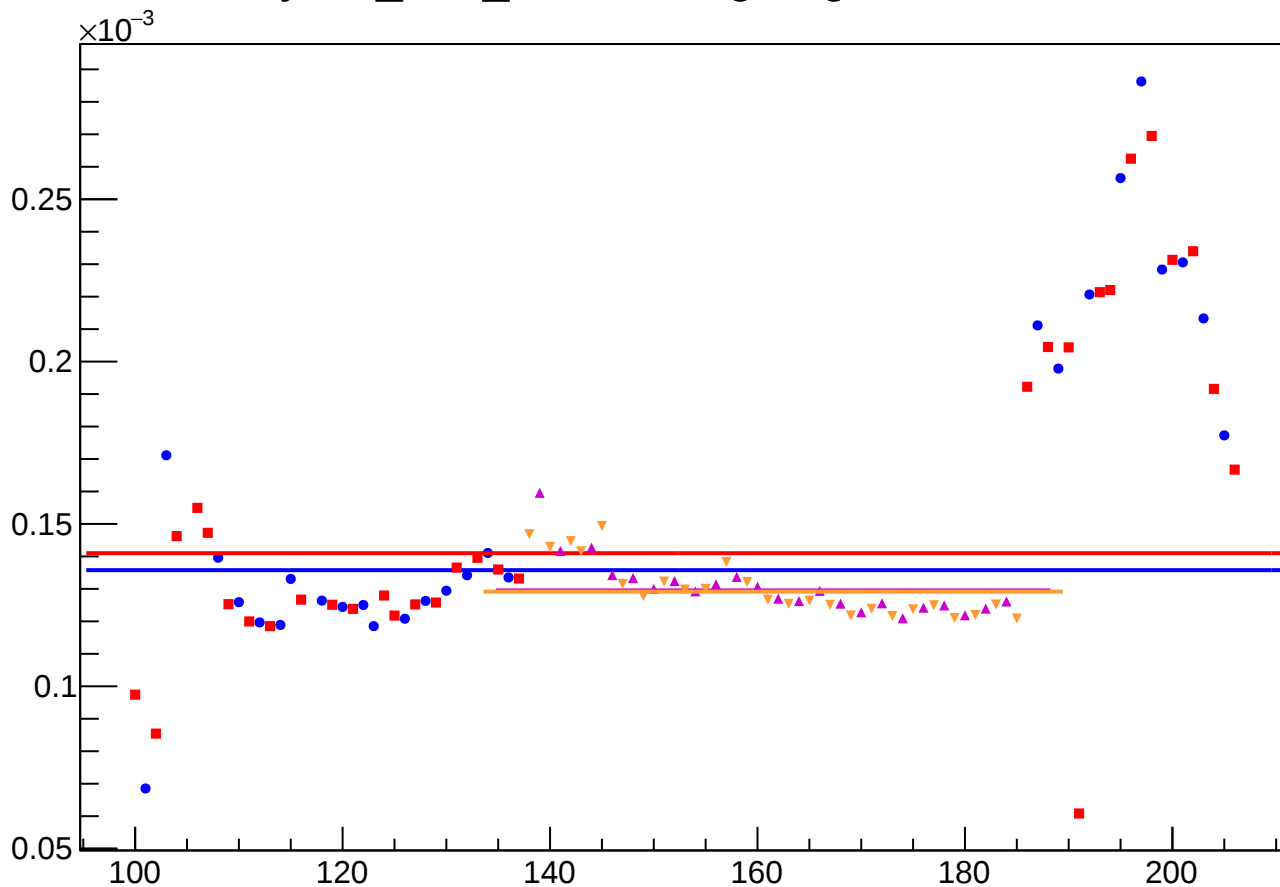
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.036+/-0.000

χ^2/NDF : 323350358028.6

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 3176252.1/25

Left Out: 0.000+/-0.000

χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000

χ^2/NDF : 3074281.1/30

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 : 6267525.4/56

In: 0.000+/-0.000

χ^2/NDF :3320227.1/48

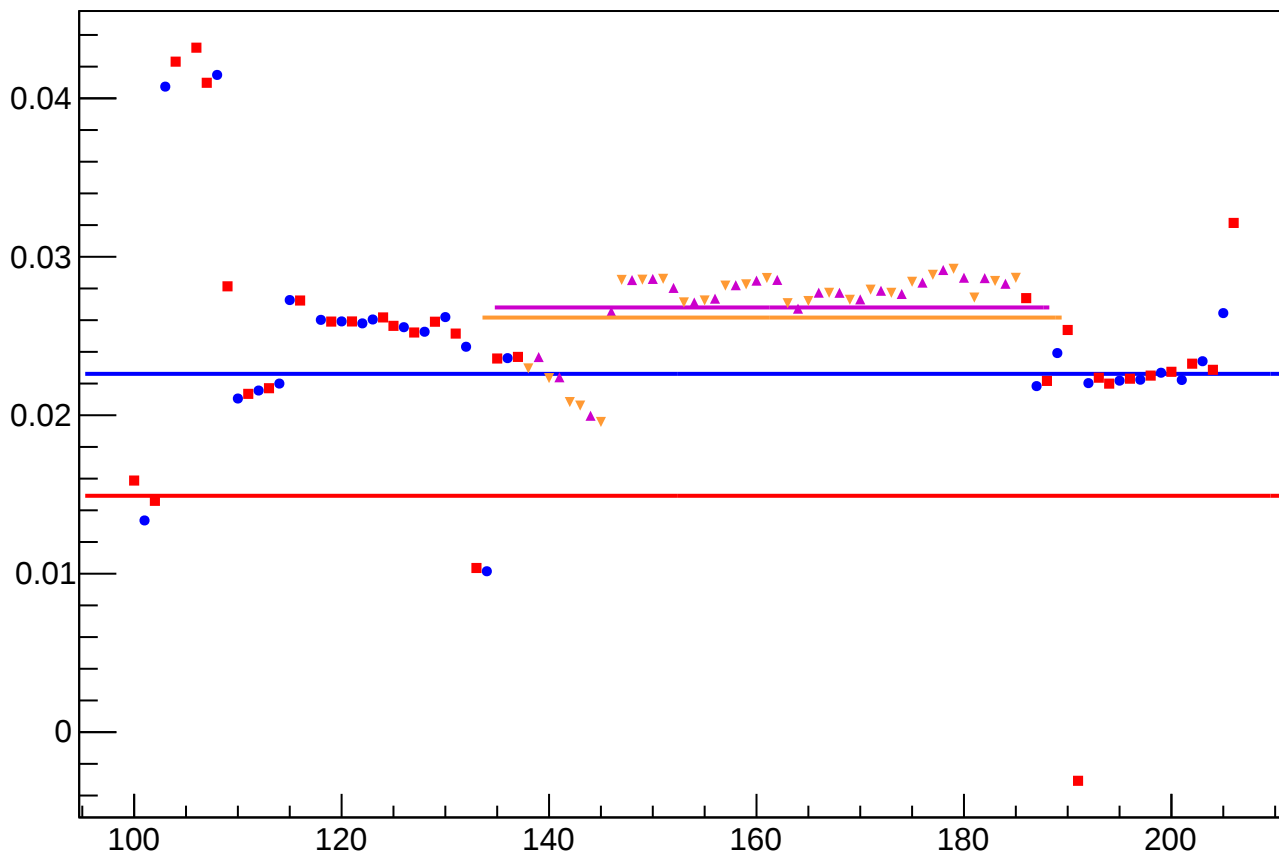
Out: 0.000+/-0.000

χ^2/NDF :3318518.1/55

All: 0.000+/-0.000

χ^2/NDF : 6643994.1/104

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4268854720.8/25

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.015+/-0.000 χ^2/NDF : 31542624087.9/30

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

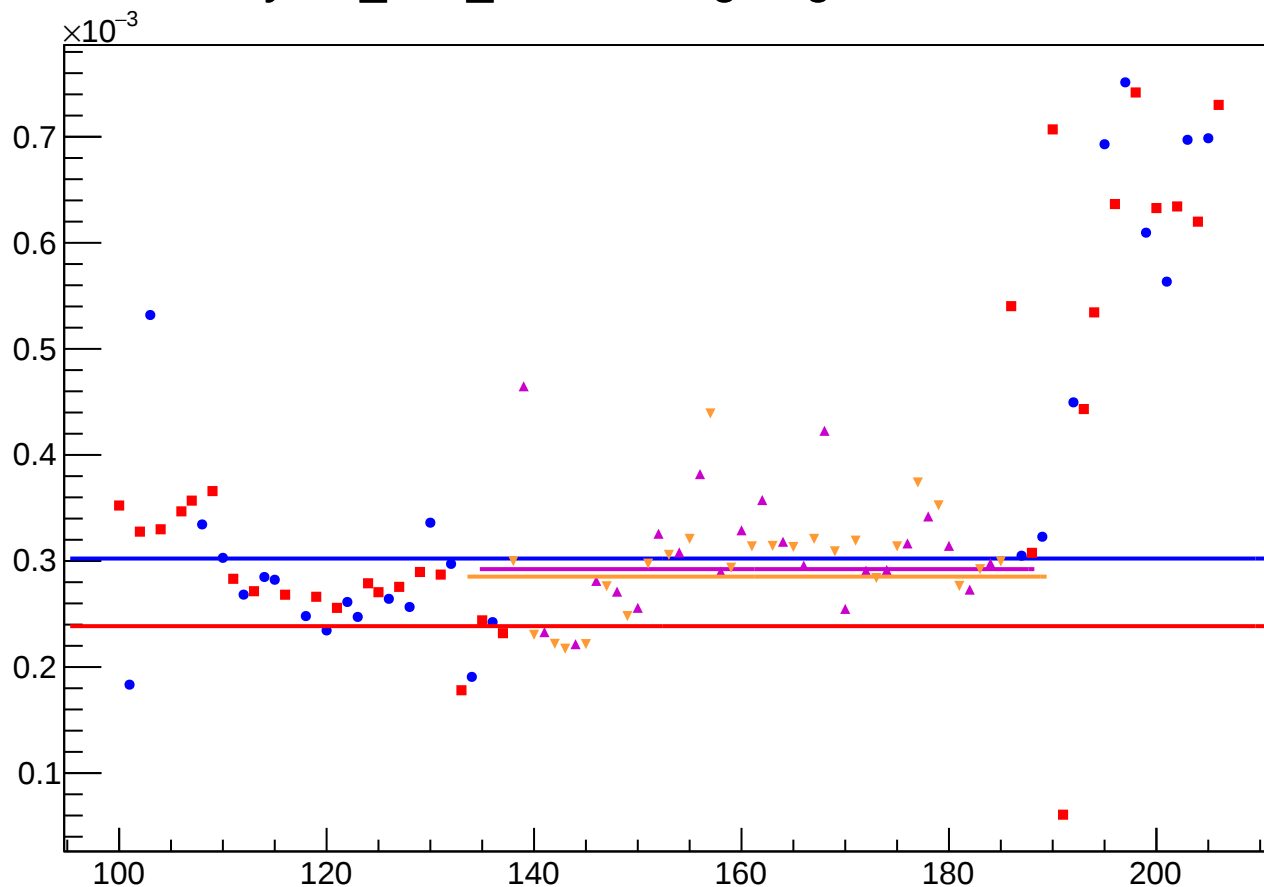
Right: 0.018+/-0.000 χ^2/NDF : 39710515942.7/56

In: 0.025+/-0.000 χ^2/NDF : 6808276034.5/48

Out: 0.021+/-0.000 χ^2/NDF : 45073276048.0/55

All: 0.023+/-0.000 χ^2/NDF : 54682640245.7/100

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3948377.6/25

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 8939526.7/30

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

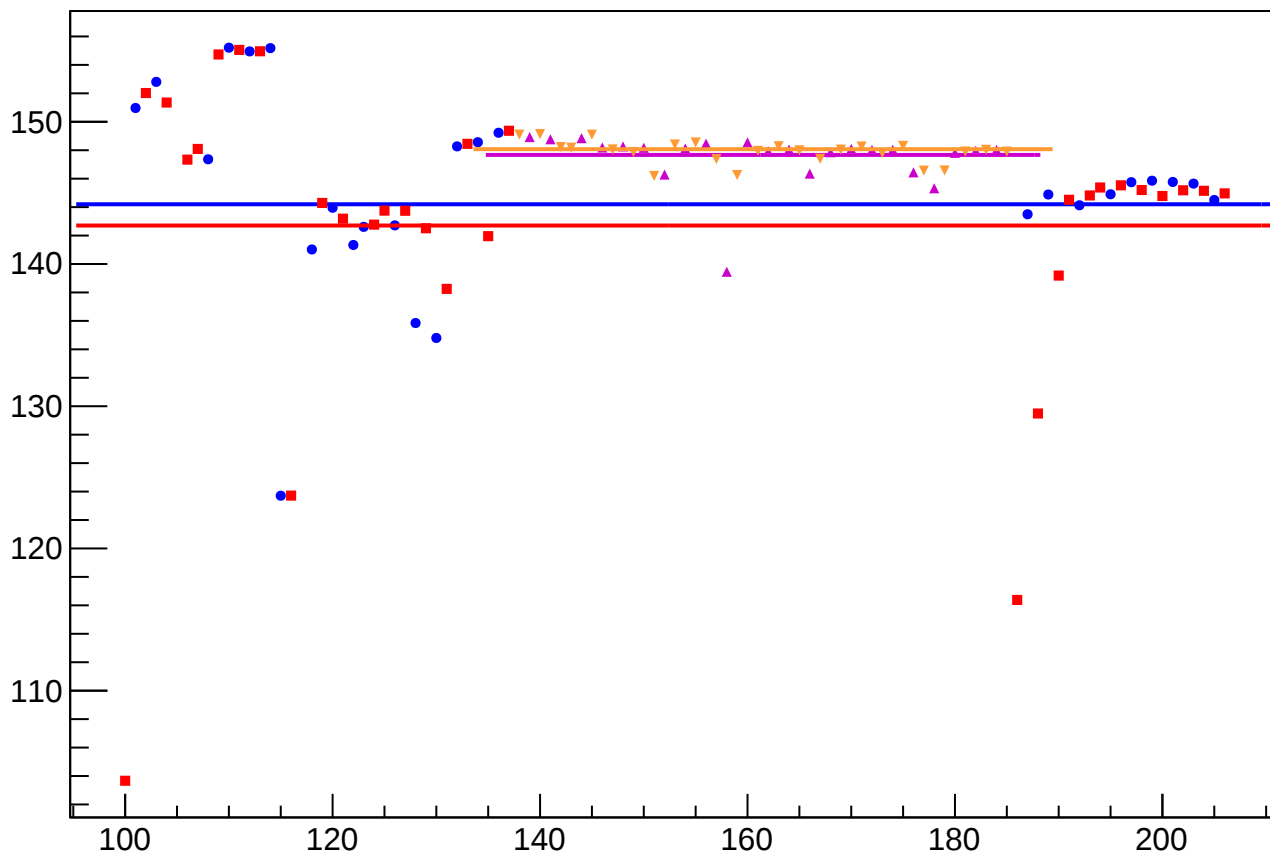
Right: 0.000+/-0.000 χ^2/NDF : 13423141.1/56

In: 0.000+/-0.000 χ^2/NDF :4860842.2/48

Out: 0.000+/-0.000 χ^2/NDF :10148682.4/55

All: 0.000+/-0.000 χ^2/NDF : 15339980.6/104

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.201+/-0.000

χ^2/NDF : 3485512770.6/25

Left Out: 148.073+/-0.000

χ^2/NDF : 65614067.4/24

Right Out: 142.706+/-0.000

χ^2/NDF : 7407260585.5/30

Left In: 147.670+/-0.000

χ^2/NDF : 345222604.4/22

Left: 147.879+/-0.000

χ^2/NDF : 418091602.5/47

Right: 143.399+/-0.000

χ^2/NDF : 10988818164.4/56

In: 146.001+/-0.000

χ^2/NDF : 4331481437.8/48

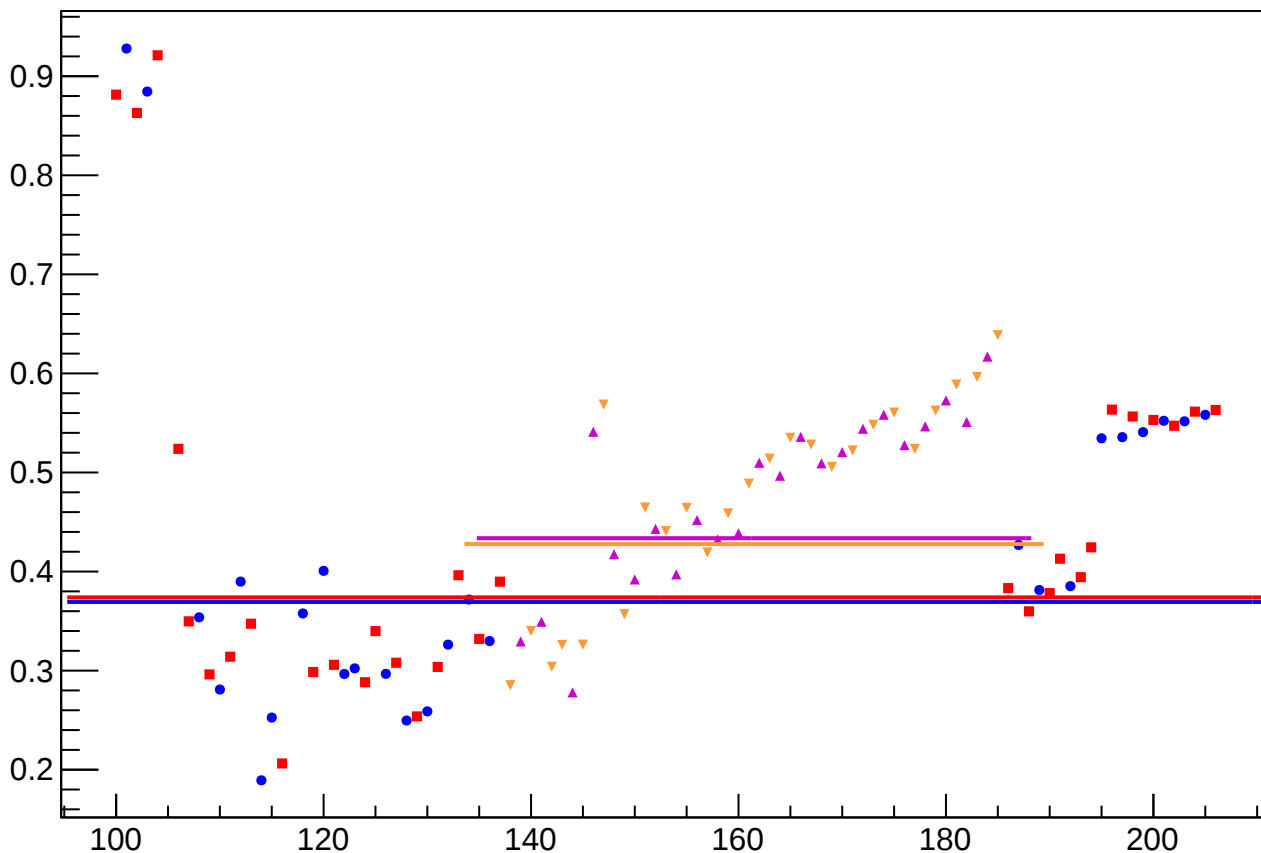
Out: 145.389+/-0.000

χ^2/NDF : 8809392348.5/55

All: 145.679+/-0.000

χ^2/NDF : 13173780025.0/100

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.369 $\pm$ 0.000 χ^2 /NDF: 2538372.0/25

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.374 $\pm$ 0.000 χ^2 /NDF: 2536452.8/30

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

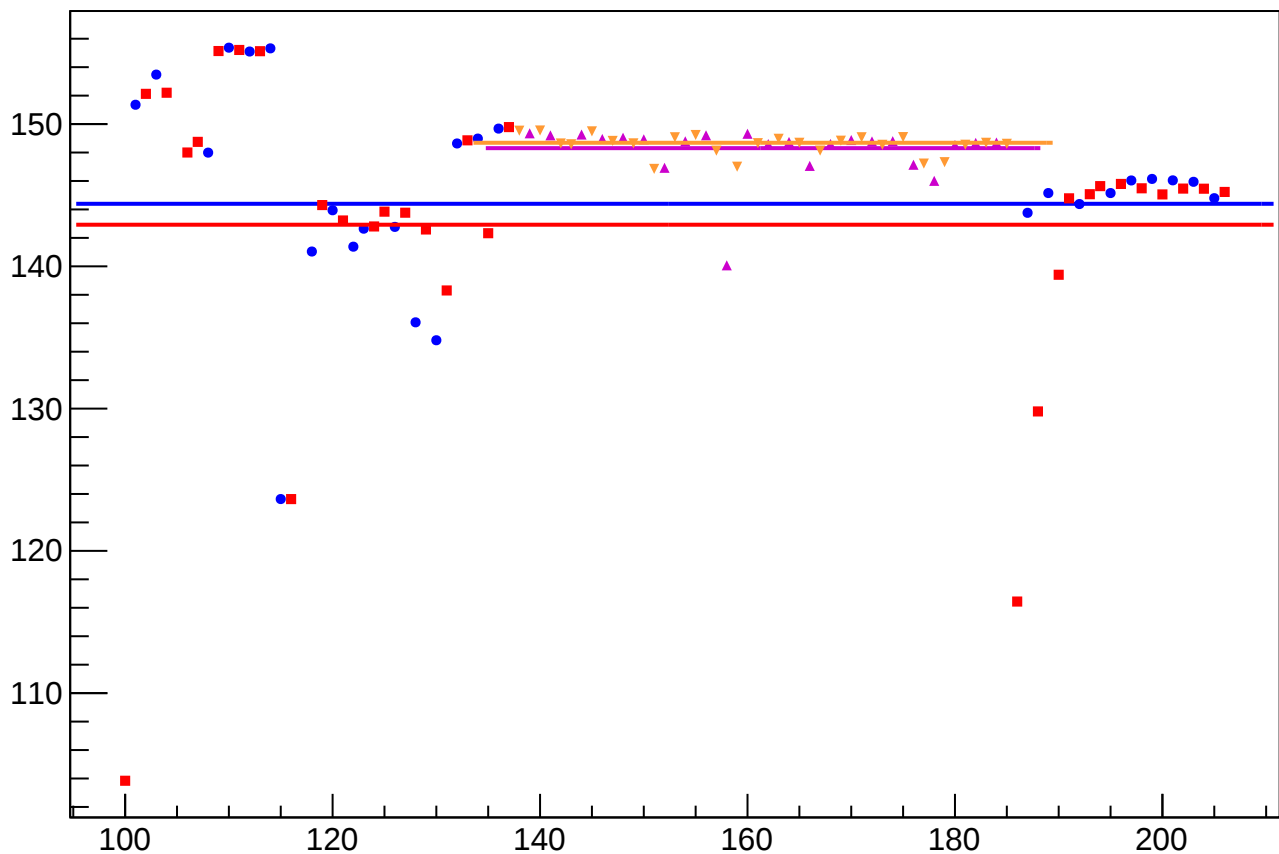
Right: 0.372 $\pm$ 0.000 χ^2 /NDF: 5076611.1/56

In: 0.403 $\pm$ 0.000 χ^2 /NDF:4378595.3/48

Out: 0.401 $\pm$ 0.000 χ^2 /NDF:4701895.2/55

All: 0.402 $\pm$ 0.000 χ^2 /NDF: 9081134.3/104

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.396 $\pm$ 0.000 χ^2 /NDF: 3534179270.1/25

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 142.926 $\pm$ 0.000 χ^2 /NDF: 7355680999.8/30

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

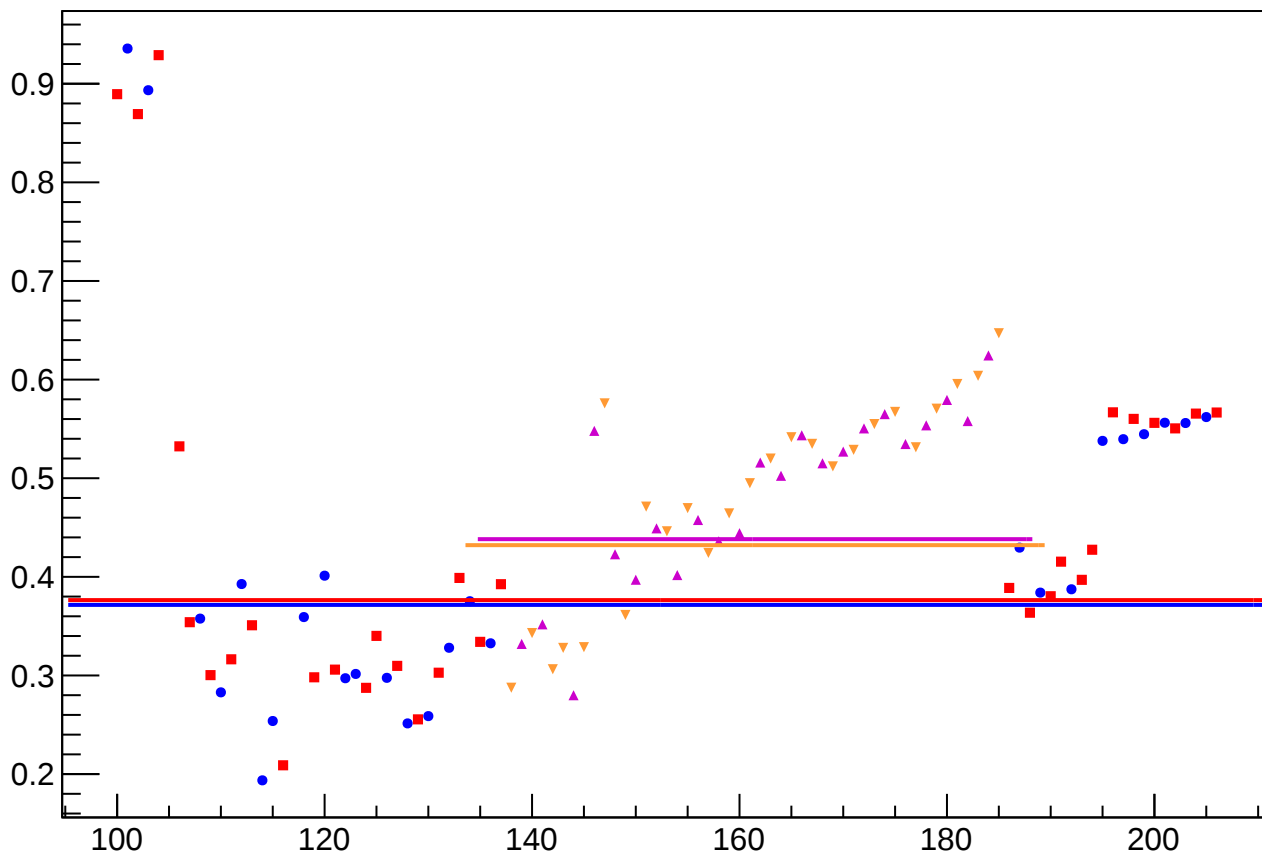
Right: 143.608 $\pm$ 0.000 χ^2 /NDF: 10981740848.9/56

In: 146.417 $\pm$ 0.000 χ^2 /NDF: 4493424606.5/48

Out: 145.794 $\pm$ 0.000 χ^2 /NDF: 8921348378.5/55

All: 146.088 $\pm$ 0.000 χ^2 /NDF: 13448263763.

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.372 $\pm$ 0.000 χ^2 /NDF: 2545771.4/25

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.376 $\pm$ 0.000 χ^2 /NDF: 2540147.9/30

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

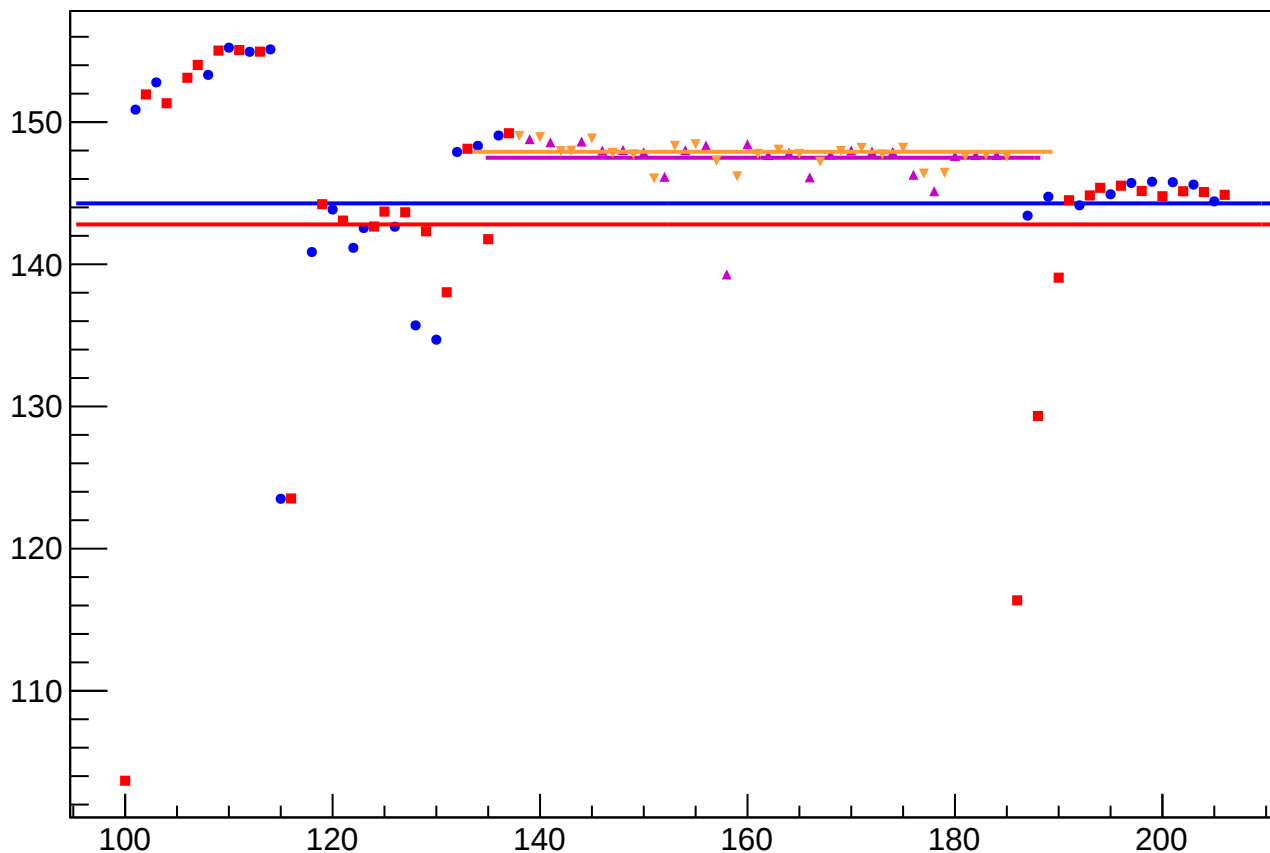
Right: 0.374 $\pm$ 0.000 χ^2 /NDF: 5087921.5/56

In: 0.406 $\pm$ 0.000 χ^2 /NDF:4431025.3/48

Out: 0.404 $\pm$ 0.000 χ^2 /NDF:4752245.3/55

All: 0.405 $\pm$ 0.000 χ^2 /NDF: 9183851.6/104

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.283 $\pm$ 0.000 χ^2 /NDF: 3692611411.3/25

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 142.804 $\pm$ 0.000 χ^2 /NDF: 7784178641.4/30

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

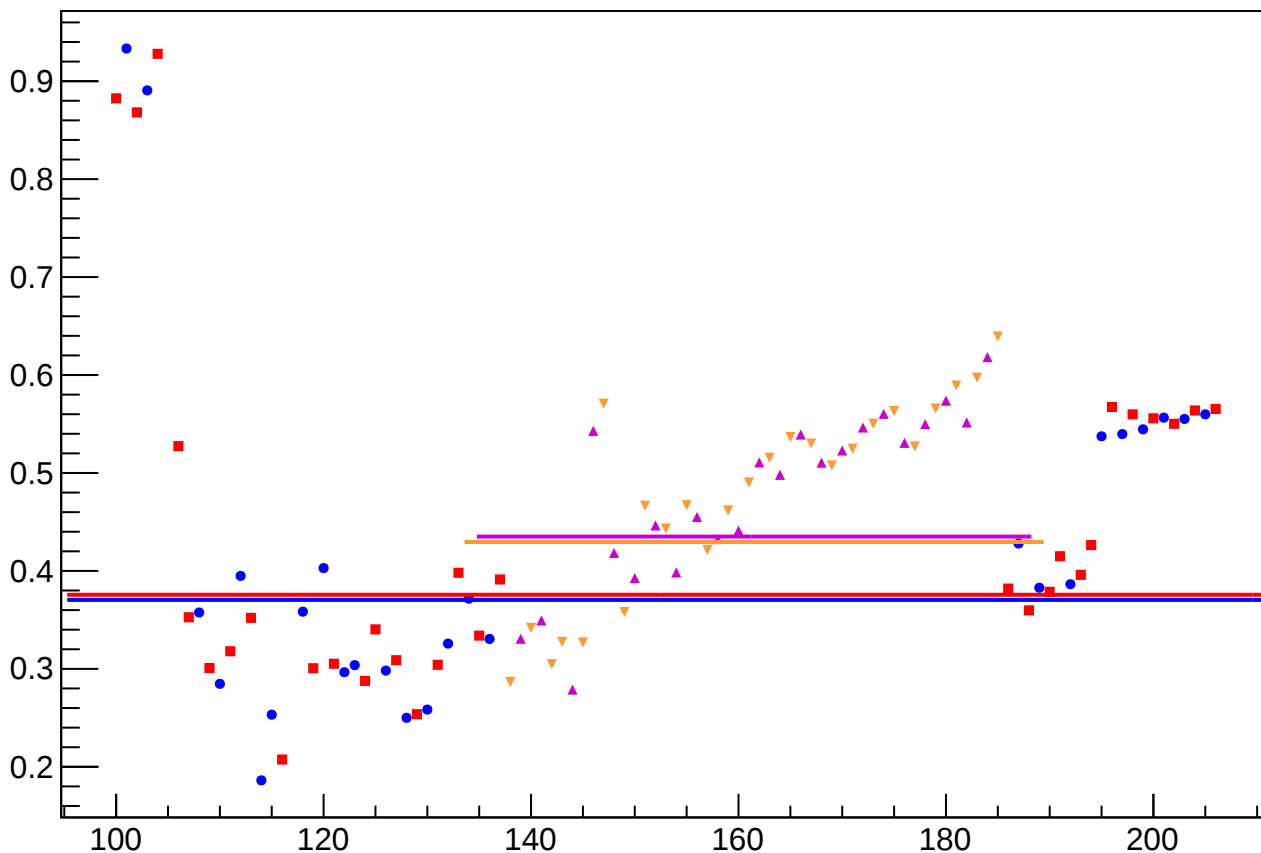
Right: 143.490 $\pm$ 0.000 χ^2 /NDF: 11570157555.0/56

In: 145.950 $\pm$ 0.000 χ^2 /NDF: 4462234986.6/48

Out: 145.358 $\pm$ 0.000 χ^2 /NDF: 9048465091.8/55

All: 145.638 $\pm$ 0.000 χ^2 /NDF: 13541201140.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.370 $\pm$ 0.000 χ^2 /NDF: 2568850.6/25

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.376 $\pm$ 0.000 χ^2 /NDF: 2540192.0/30

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

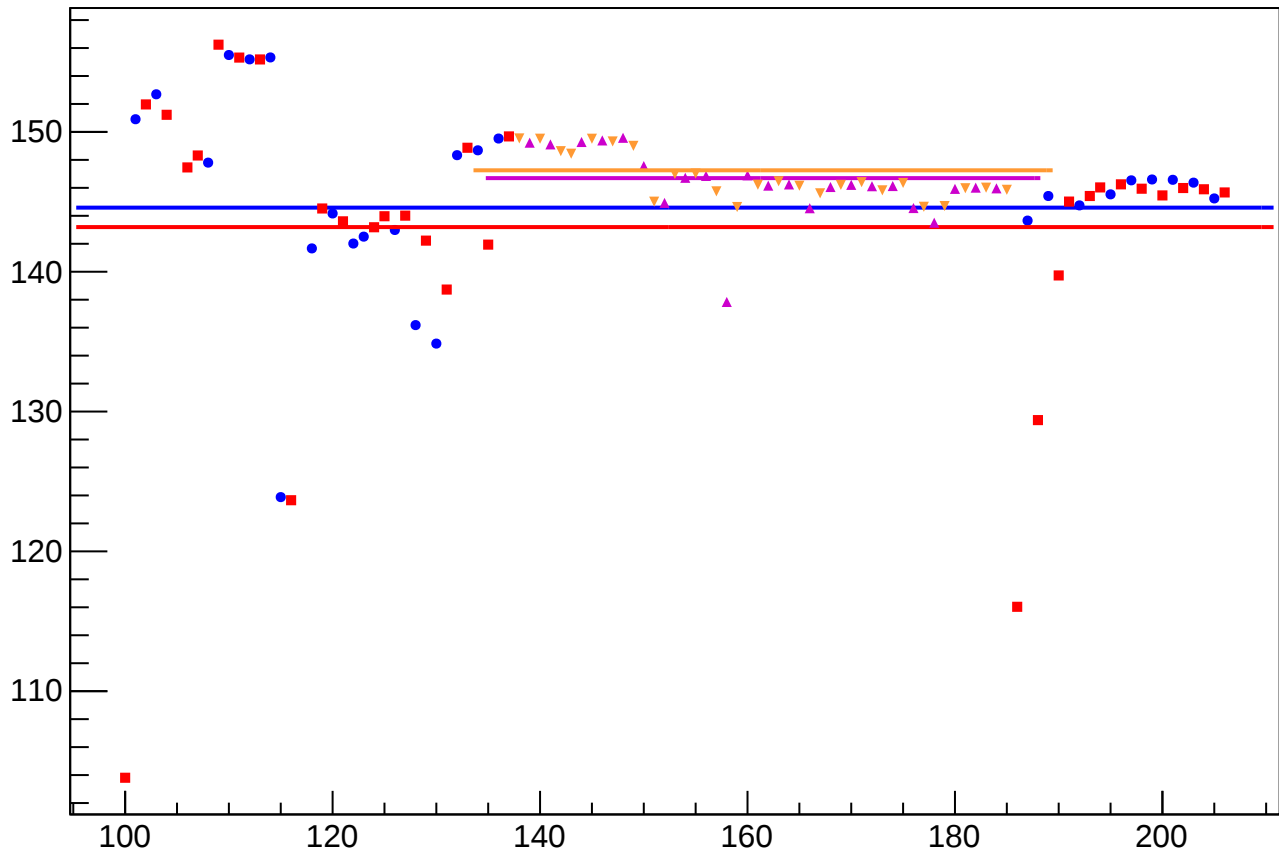
Right: 0.373 $\pm$ 0.000 χ^2 /NDF: 5111372.0/56

In: 0.404 $\pm$ 0.000 χ^2 /NDF:4416637.5/48

Out: 0.403 $\pm$ 0.000 χ^2 /NDF:4702893.3/55

All: 0.403 $\pm$ 0.000 χ^2 /NDF: 9119865.2/104

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.585 ± 0.000 χ^2/NDF : 3216551846.1/25

Left Out: 147.255 ± 0.000 χ^2/NDF : 262138049.8/24

Right Out: 143.194 ± 0.000 χ^2/NDF : 7121492346.4/30

Left In: 146.695 ± 0.000 χ^2/NDF : 557896803.1/22

Left: 146.984 ± 0.000 χ^2/NDF : 833217060.4/47

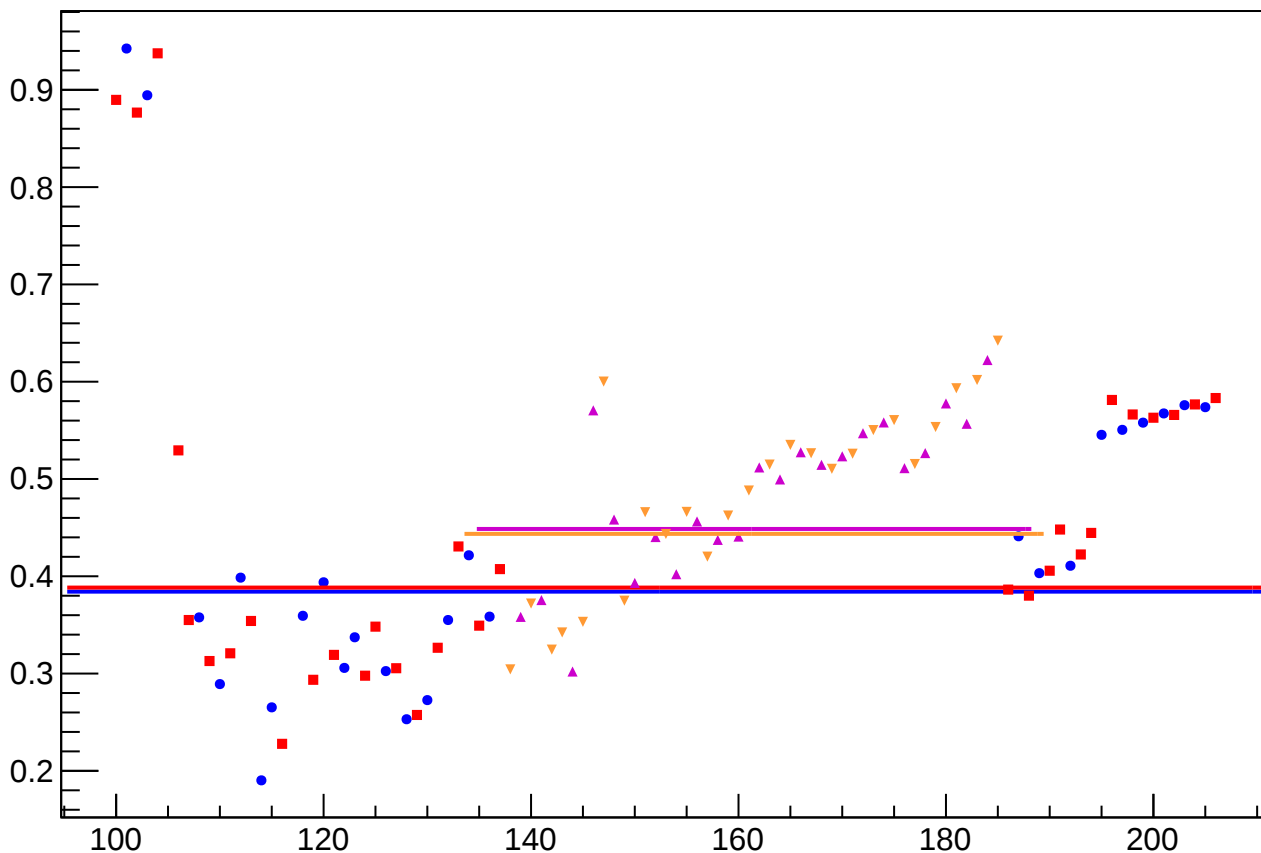
Right: 143.837 ± 0.000 χ^2/NDF : 10414966323.2/56

In: 145.693 ± 0.000 χ^2/NDF : 3947136007.0/48

Out: 145.238 ± 0.000 χ^2/NDF : 8096850071.0/55

All: 145.453 ± 0.000 χ^2/NDF : 12060883643.0/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.384 $\pm$ 0.000 χ^2 /NDF: 2506695.9/25

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1483434.7/24

Right Out: 0.388 $\pm$ 0.000 χ^2 /NDF: 2480868.3/30

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

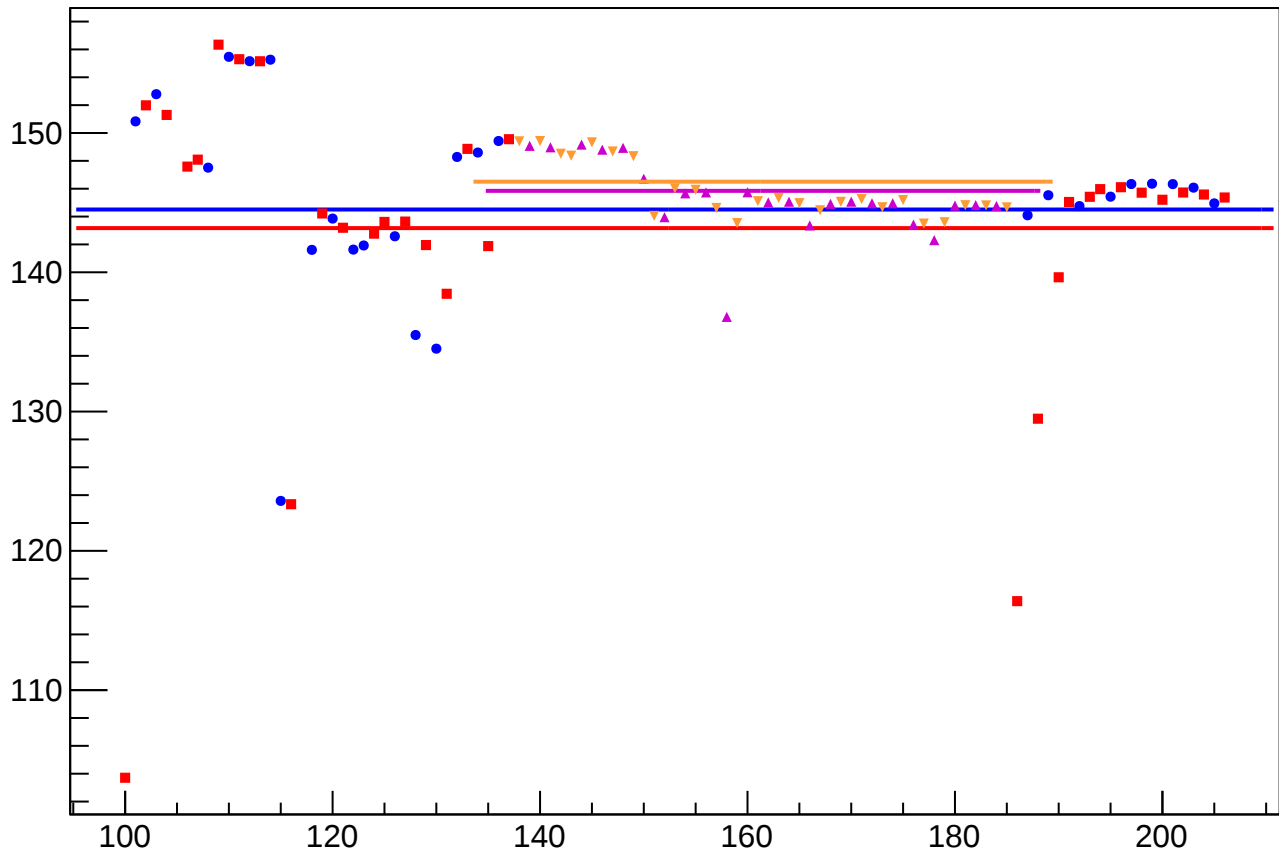
Right: 0.386 $\pm$ 0.000 χ^2 /NDF: 4988945.3/56

In: 0.418 $\pm$ 0.000 χ^2 /NDF:3961255.9/48

Out: 0.416 $\pm$ 0.000 χ^2 /NDF:4227867.5/55

All: 0.417 $\pm$ 0.000 χ^2 /NDF: 8189681.6/104

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.506 ± 0.000 $\chi^2/\text{NDF}: 3327942582.0/25$

Left Out: 146.505 ± 0.000 $\chi^2/\text{NDF}: 401688176.3/24$

Right Out: 143.171 ± 0.000 $\chi^2/\text{NDF}: 7075195614.5/30$

Left In: 145.847 ± 0.000 $\chi^2/\text{NDF}: 694764545.6/22$

Left: 146.187 ± 0.000 $\chi^2/\text{NDF}: 1114638549.0/47$

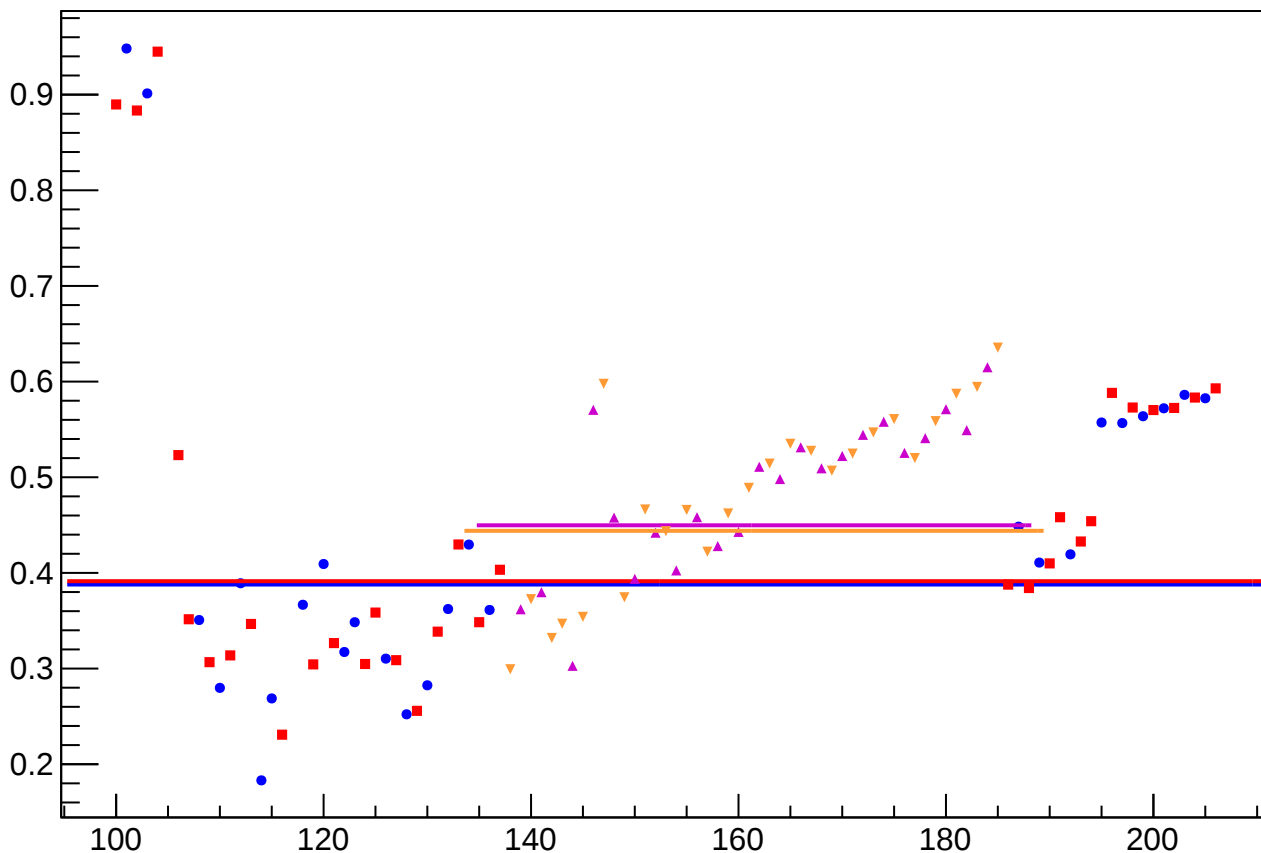
Right: 143.787 ± 0.000 $\chi^2/\text{NDF}: 10472458050.7/56$

In: 145.216 ± 0.000 $\chi^2/\text{NDF}: 4091356336.1/48$

Out: 144.863 ± 0.000 $\chi^2/\text{NDF}: 7952427922.2/55$

All: 145.030 ± 0.000 $\chi^2/\text{NDF}: 12053824418.0/100$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.388 $\pm$ 0.000 χ^2 /NDF: 2552499.1/25

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.391 $\pm$ 0.000 χ^2 /NDF: 2511833.9/30

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

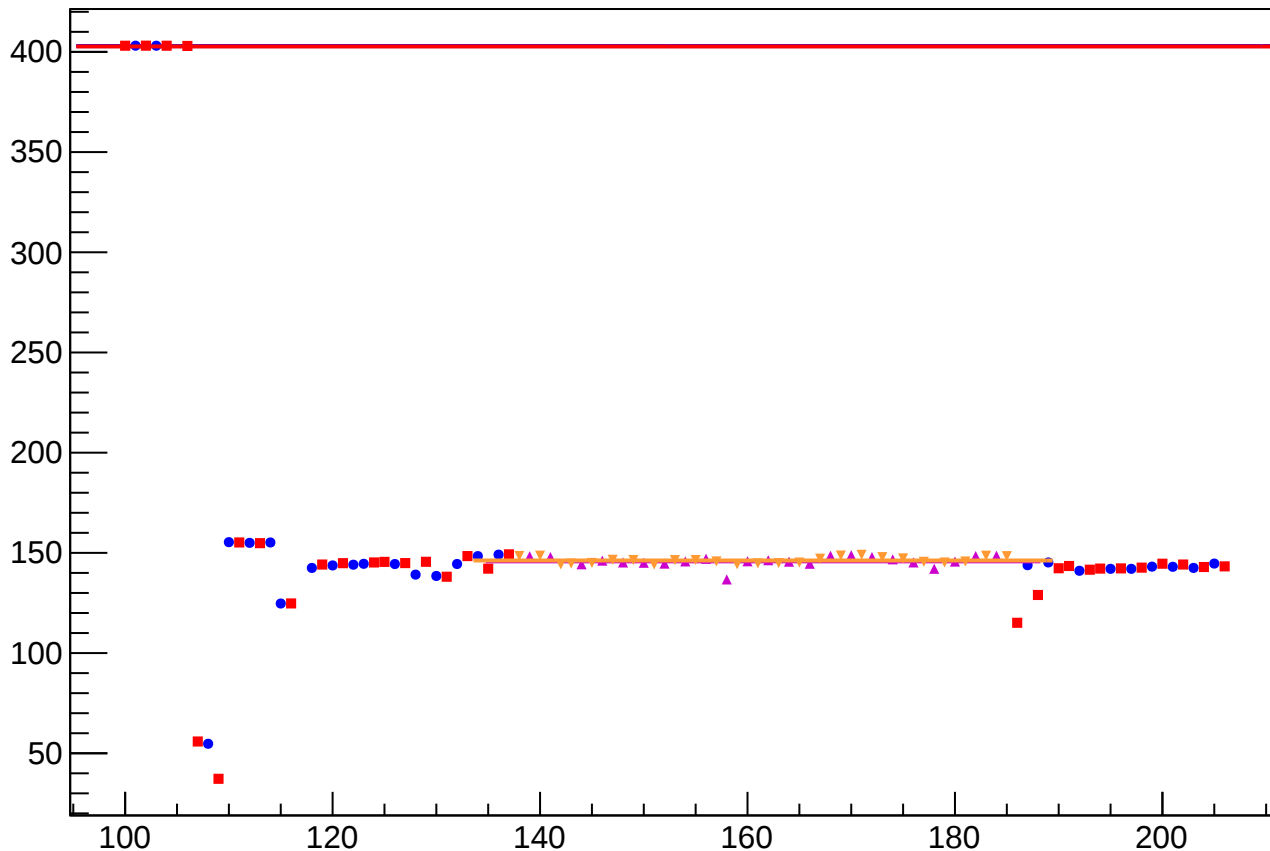
Right: 0.390 $\pm$ 0.000 χ^2 /NDF: 5065275.3/56

In: 0.421 $\pm$ 0.000 χ^2 /NDF:3950756.7/48

Out: 0.418 $\pm$ 0.000 χ^2 /NDF:4212432.1/55

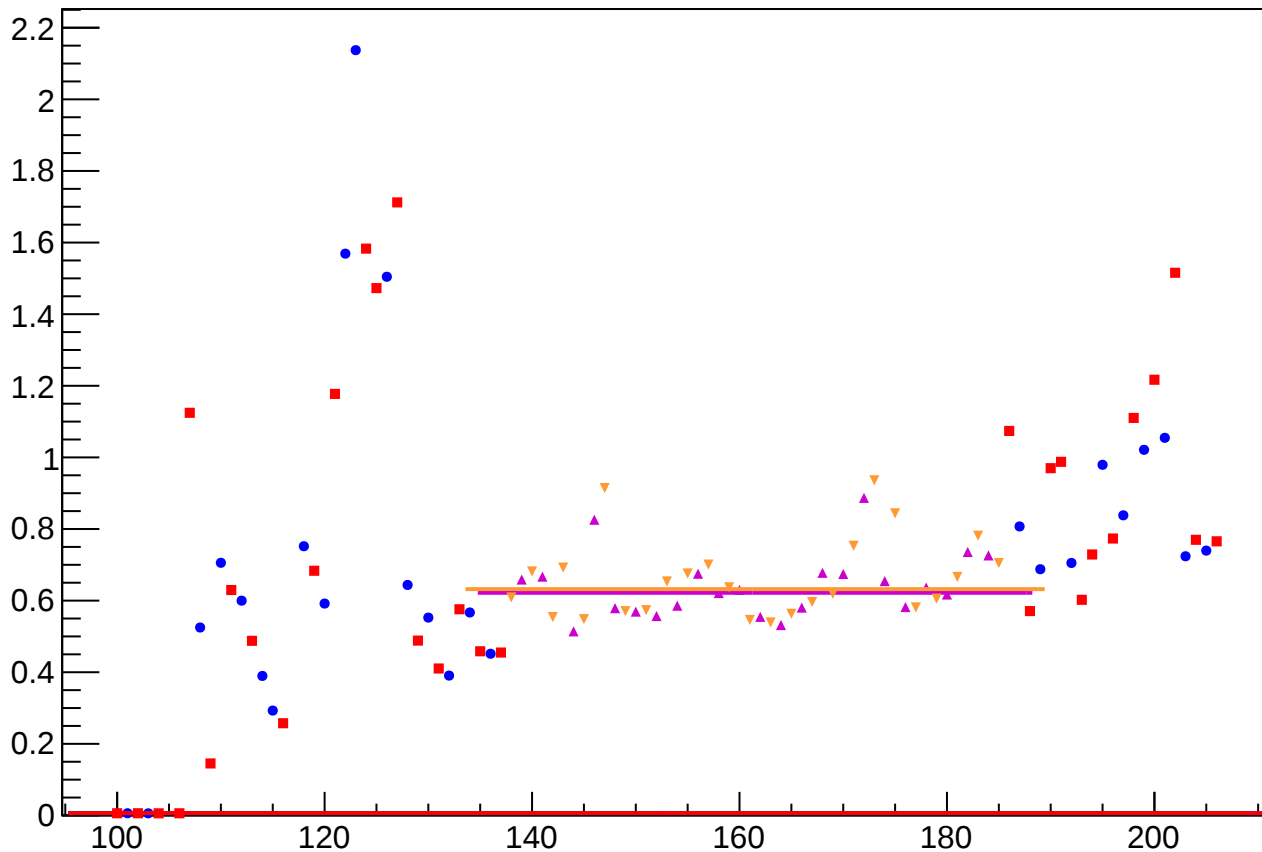
All: 0.419 $\pm$ 0.000 χ^2 /NDF: 8164244.1/104

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.895 $\pm$ 0.000	χ^2 /NDF: 1602598668020.5/25	Left: 145.990 $\pm$ 0.000	χ^2 /NDF: 297342055.1/47
Left Out: 146.205 $\pm$ 0.000	χ^2 /NDF: 86658381.3/24	Right: 402.801 $\pm$ 0.000	χ^2 /NDF: 5456577516850.4
Right Out: 402.718 $\pm$ 0.000	χ^2 /NDF: 3853461916413.9/30	In: 402.602 $\pm$ 0.000	χ^2 /NDF: 3951485658118.3/48
Left In: 145.773 $\pm$ 0.000	χ^2 /NDF: 207332354.9/22	Out: 402.456 $\pm$ 0.000	χ^2 /NDF: 6221354260466.3/5
		All: 402.525 $\pm$ 0.000	χ^2 /NDF: 101731895507

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 18930653.6/25

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 22343439.7/30

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

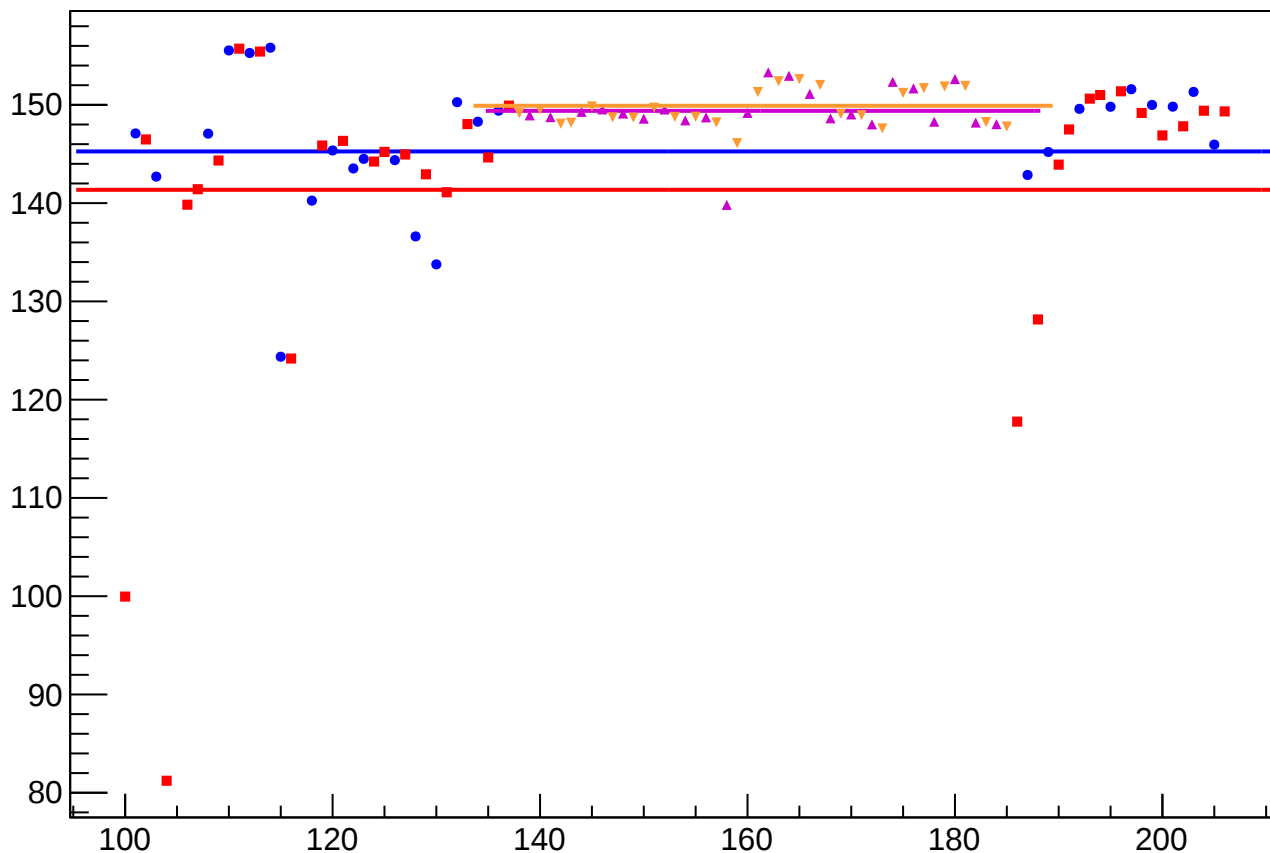
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 41274118.3/56

In: 0.007 $\pm$ 0.000 χ^2 /NDF:46244433.6/48

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:51121094.2/55

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 97365570.9/104

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.259 $\pm$ 0.000

χ^2/NDF : 1300461954.6/25

Left: 149.657 $\pm$ 0.000

χ^2/NDF : 606930259.3/47

Right: 143.039 $\pm$ 0.000

χ^2/NDF : 4721399527.4/56

Left Out: 149.906 $\pm$ 0.000

χ^2/NDF : 163261802.4/24

In: 148.167 $\pm$ 0.000

χ^2/NDF : 1978141571.6/48

Right Out: 141.355 $\pm$ 0.000

χ^2/NDF : 3247439380.4/30

Out: 146.987 $\pm$ 0.000

χ^2/NDF : 4681713069.7/55

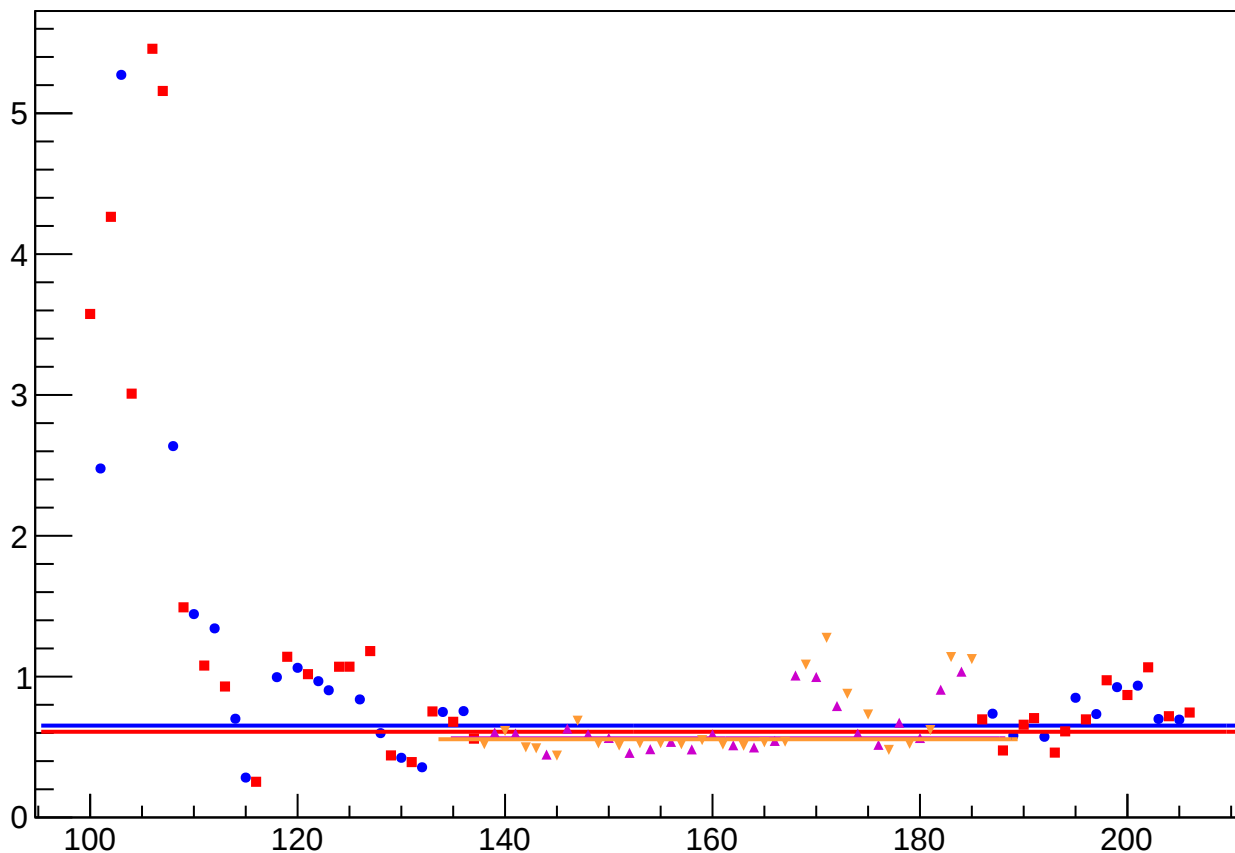
Left In: 149.391 $\pm$ 0.000

χ^2/NDF : 437129920.4/22

All: 147.538 $\pm$ 0.000

χ^2/NDF : 6710099344.7

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.652 $\pm$ 0.000 χ^2 /NDF: 3946528.8/25

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.608 $\pm$ 0.000 χ^2 /NDF: 5545697.2/30

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

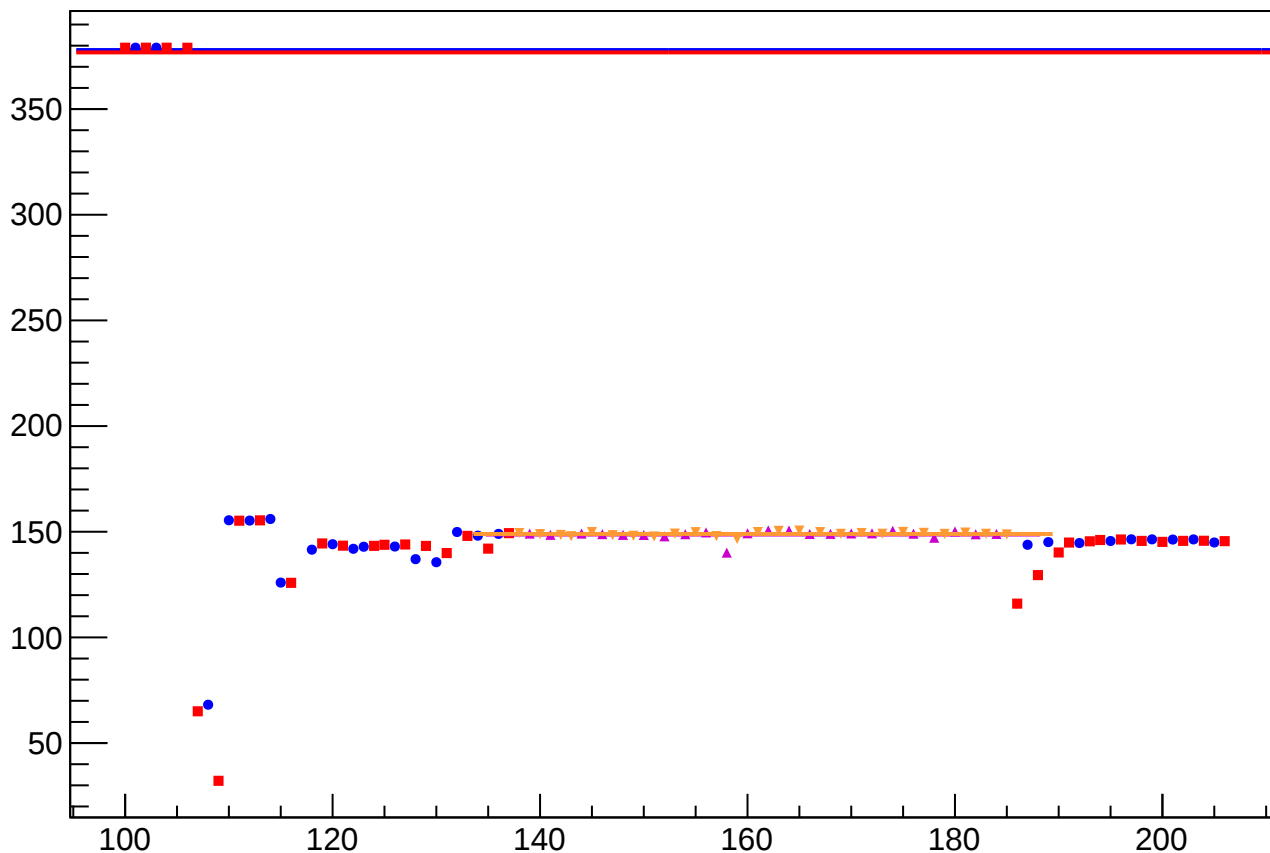
Right: 0.627 $\pm$ 0.000 χ^2 /NDF: 9535857.4/56

In: 0.589 $\pm$ 0.000 χ^2 /NDF:5486710.0/48

Out: 0.574 $\pm$ 0.000 χ^2 /NDF:7416946.3/55

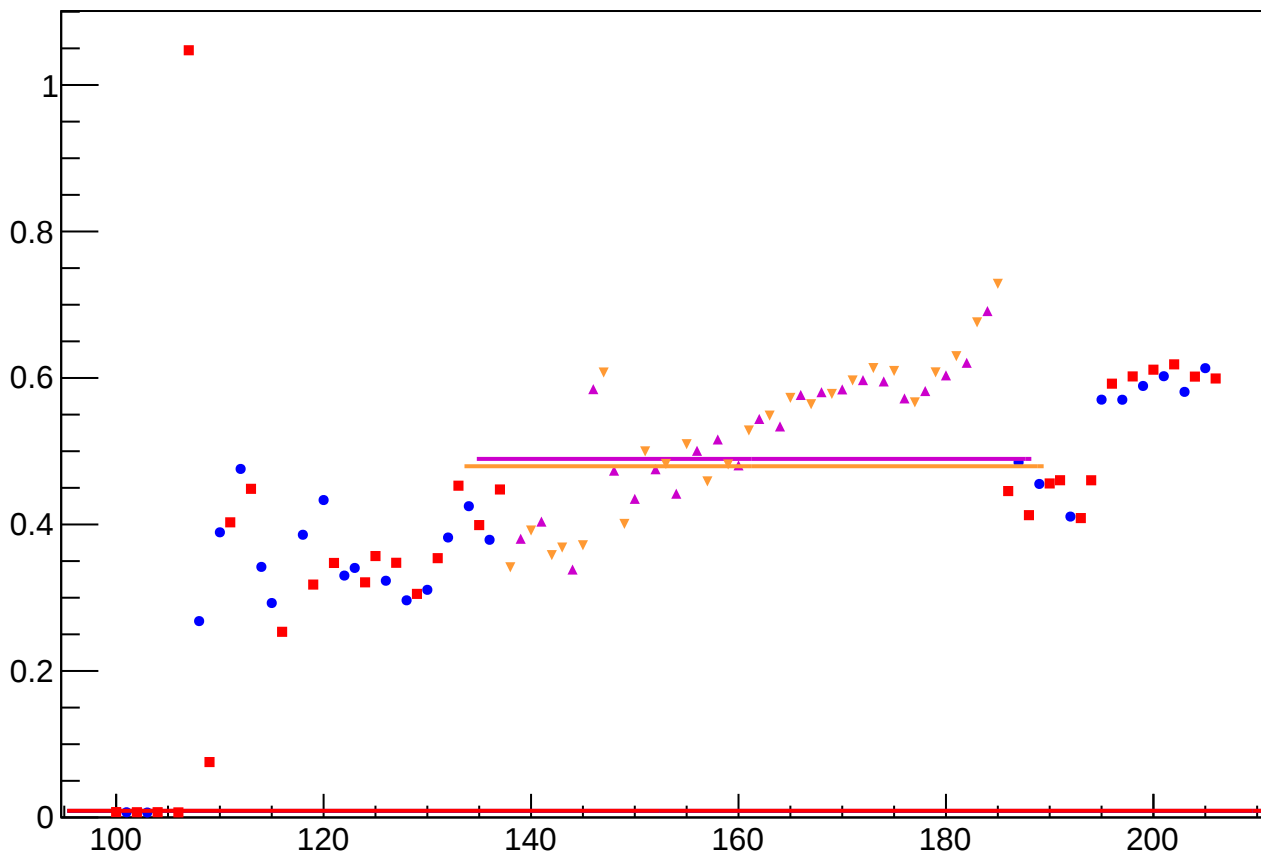
All: 0.581 $\pm$ 0.000 χ^2 /NDF: 12920445.3/104

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.922 $\pm$ 0.000	χ^2 /NDF: 3625964109470.2/25	Left: 148.820 $\pm$ 0.000	χ^2 /NDF: 320306424.2/47
Left Out: 148.946 $\pm$ 0.000	χ^2 /NDF: 63974844.7/24	Right: 377.336 $\pm$ 0.000	χ^2 /NDF: 13589461279768.0
Right Out: 376.823 $\pm$ 0.000	χ^2 /NDF: 9954917498976.6/30	In: 376.743 $\pm$ 0.000	χ^2 /NDF: 7228790638748.2/48
Left In: 148.683 $\pm$ 0.000	χ^2 /NDF: 253848207.3/22	Out: 375.707 $\pm$ 0.000	χ^2 /NDF: 13823264274042.7
		All: 376.191 $\pm$ 0.000	χ^2 /NDF: 210597252758.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 21436721.8/25

Left Out: 0.479+/-0.000 χ^2/NDF :1518765.9/24

Right Out: 0.009+/-0.000 χ^2/NDF : 24518816.4/30

Left In: 0.490+/-0.000 χ^2/NDF :1090532.3/22

Left: 0.484+/-0.000 χ^2/NDF : 2616511.3/47

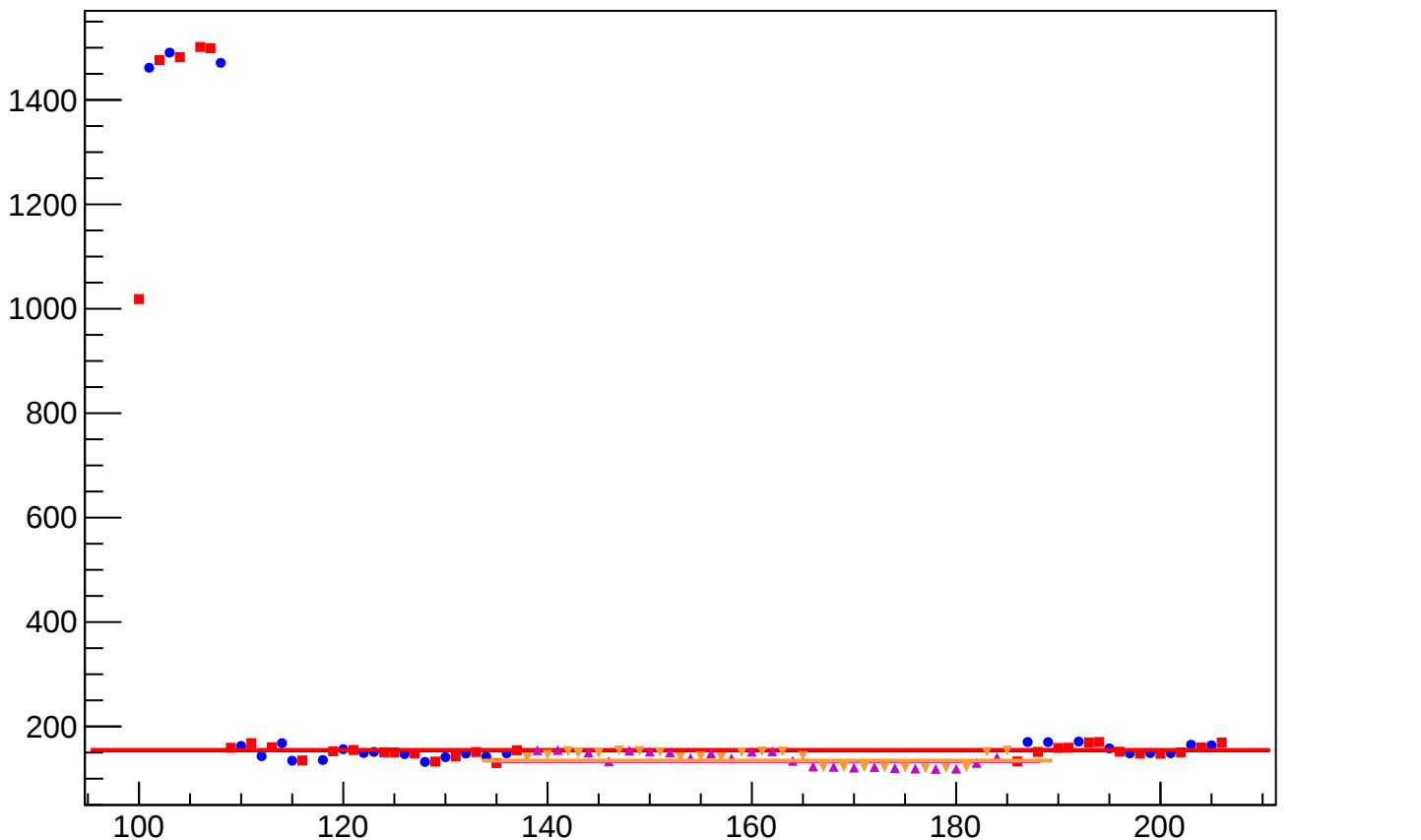
Right: 0.009+/-0.000 χ^2/NDF : 45955992.6/56

In: 0.011+/-0.000 χ^2/NDF :54193594.6/48

Out: 0.011+/-0.000 χ^2/NDF :59001349.6/55

All: 0.011+/-0.000 χ^2/NDF : 113194946.2/104

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.127+/-0.000 χ^2/NDF : 25668659010.1/25

Left Out: 134.585+/-0.000 χ^2/NDF : 4387324151.1/24

Right Out: 155.111+/-0.000 χ^2/NDF : 34996471228.6/30

Left In: 133.309+/-0.000 χ^2/NDF : 4353039408.6/22

Left: 133.958+/-0.000 χ^2/NDF : 8759337937.7/47

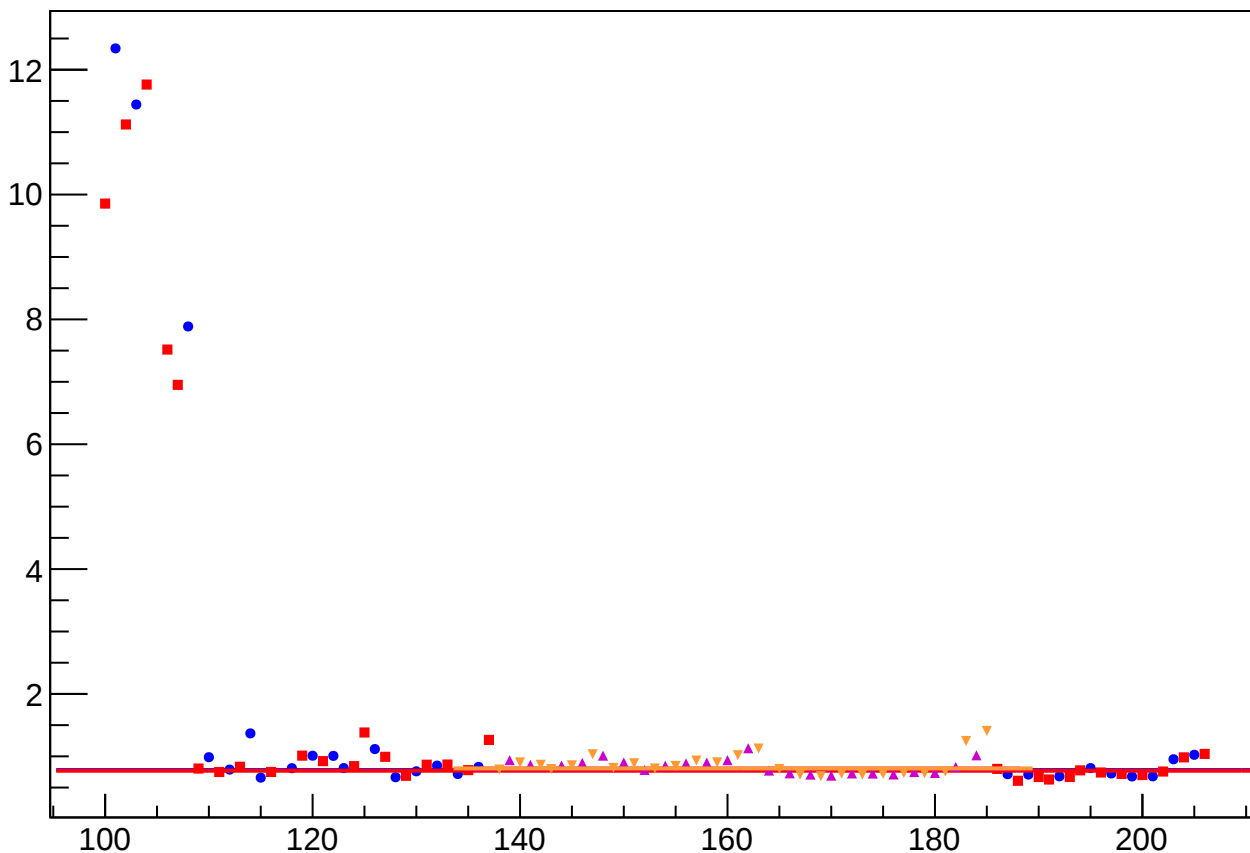
Right: 154.668+/-0.000 χ^2/NDF : 60673108755.8/56

In: 141.533+/-0.000 χ^2/NDF : 33950382145.1/48

Out: 143.511+/-0.000 χ^2/NDF : 43733512919.3/55

All: 142.572+/-0.000 χ^2/NDF : 77761861523.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.780 $\pm$ 0.000 χ^2 /NDF: 2953267.1/25

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF:704181.3/24

Right Out: 0.771 $\pm$ 0.000 χ^2 /NDF: 3299804.1/30

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

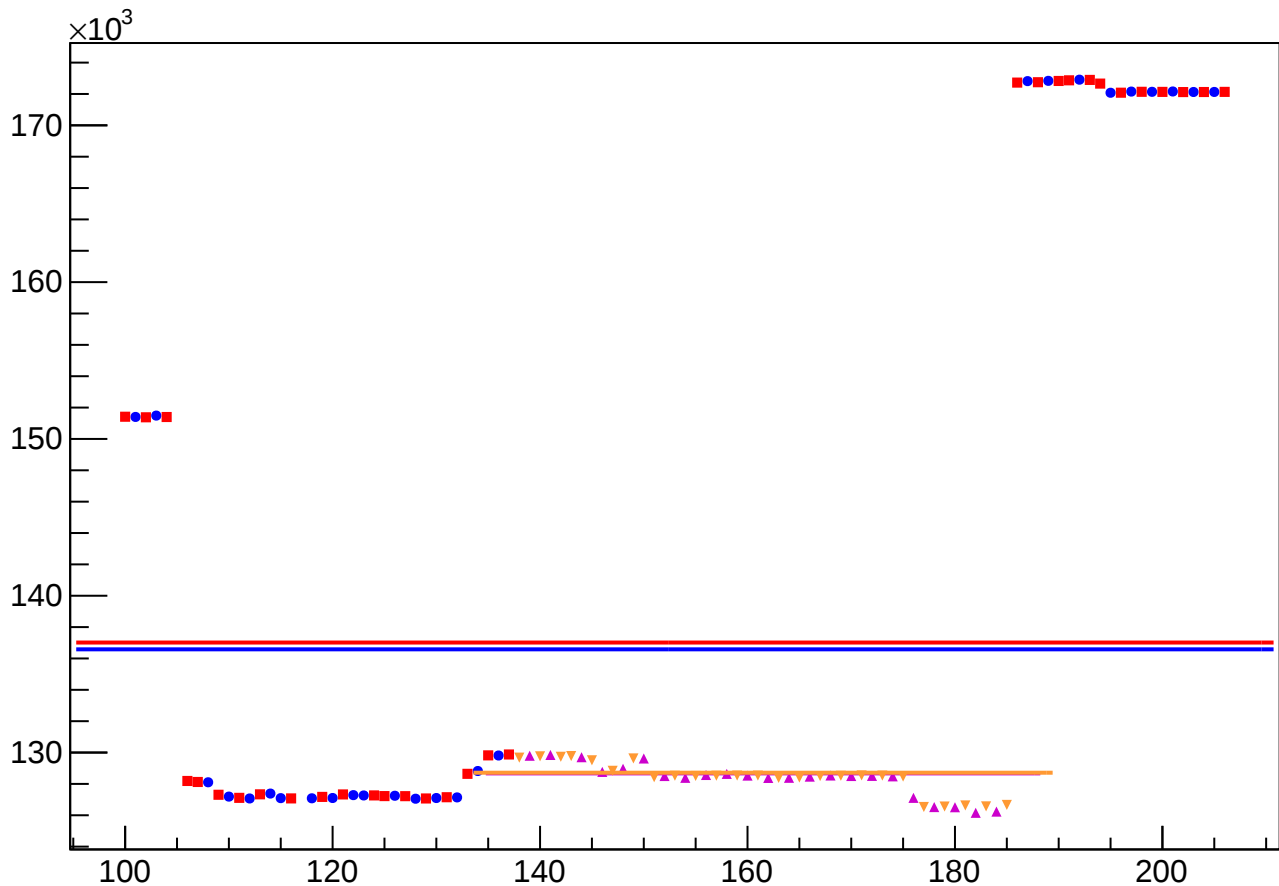
Right: 0.775 $\pm$ 0.000 χ^2 /NDF: 6254435.1/56

In: 0.795 $\pm$ 0.000 χ^2 /NDF:3444203.5/48

Out: 0.791 $\pm$ 0.000 χ^2 /NDF:4030953.3/55

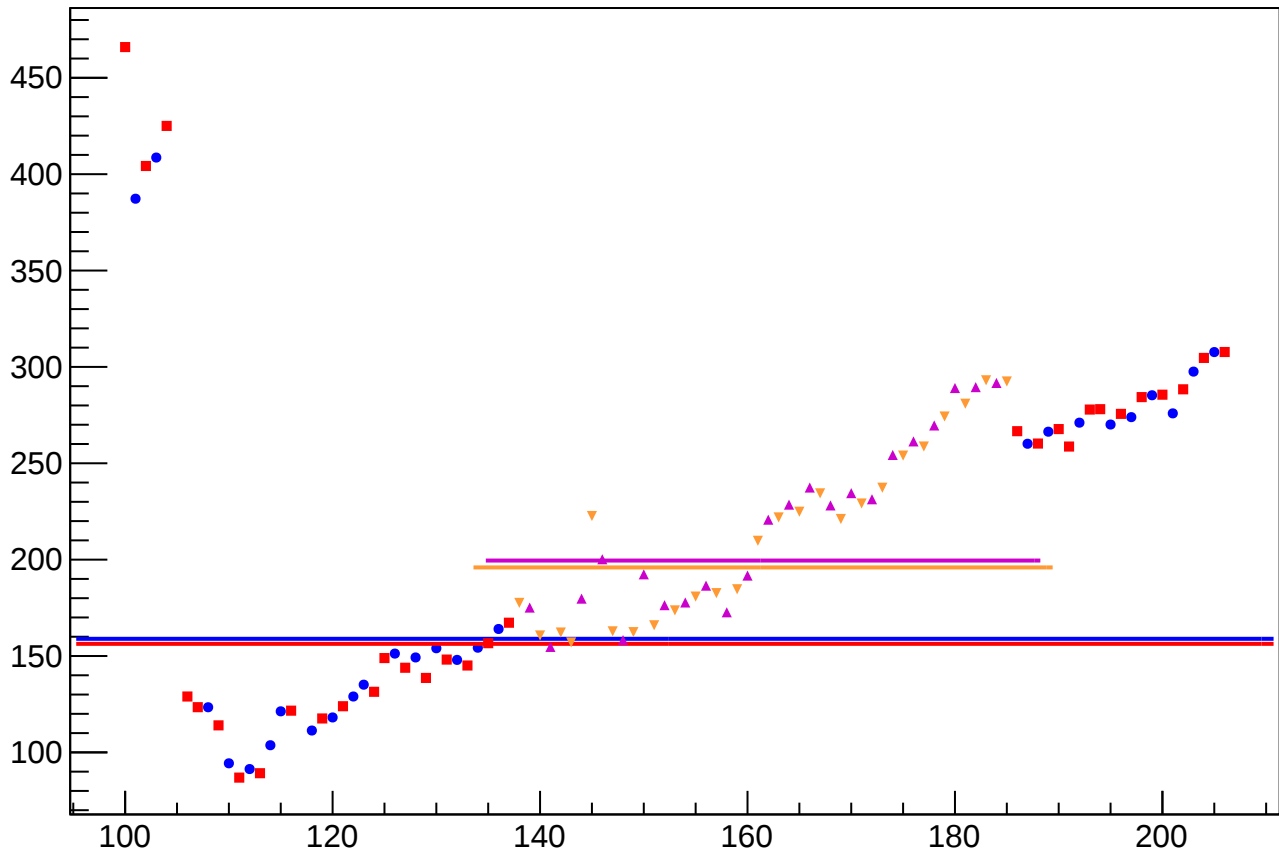
All: 0.793 $\pm$ 0.000 χ^2 /NDF: 7475715.6/104

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 136581.882 $\pm$ 0.049 χ^2 /NDF: 131298166413.7/25
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 137015.579 $\pm$ 0.045 χ^2 /NDF: 163078799239.1/30
 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: 136817.738 $\pm$ 0.033 χ^2 /NDF: 294419440920.2
 In: 132606.594 $\pm$ 0.035 χ^2 /NDF: 144693120720.2
 Out: 133019.288 $\pm$ 0.032 χ^2 /NDF: 179850390739.1
 All: 132826.773 $\pm$ 0.024 χ^2 /NDF: 324619346.0

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 158.930 $\pm$ 0.035 χ^2 /NDF: 4424879.4/25

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 156.315 $\pm$ 0.032 χ^2 /NDF: 5494150.6/30

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

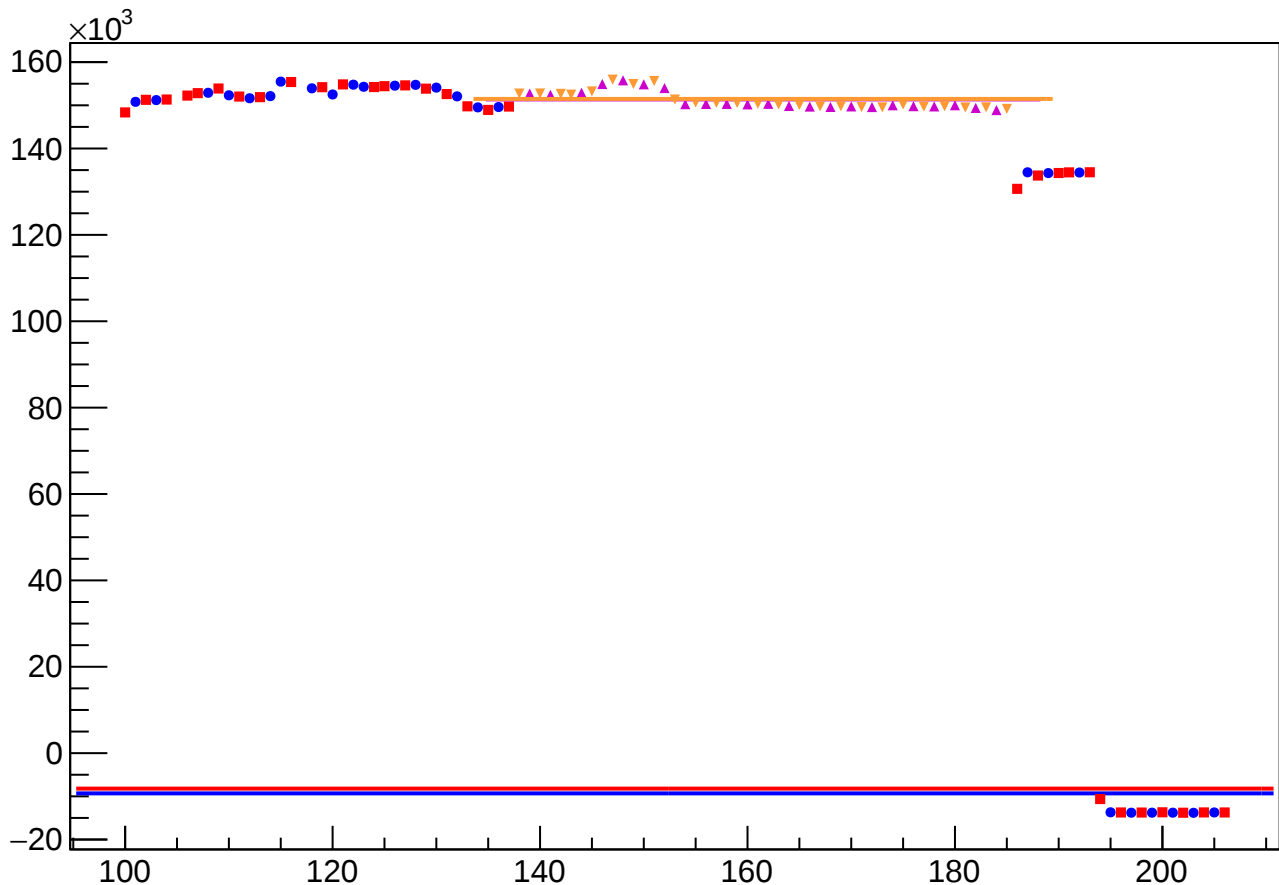
Right: 157.508 $\pm$ 0.023 χ^2 /NDF: 9922119.0/56

In: 179.330 $\pm$ 0.024 χ^2 /NDF:6288071.5/48

Out: 175.401 $\pm$ 0.023 χ^2 /NDF:7559453.5/55

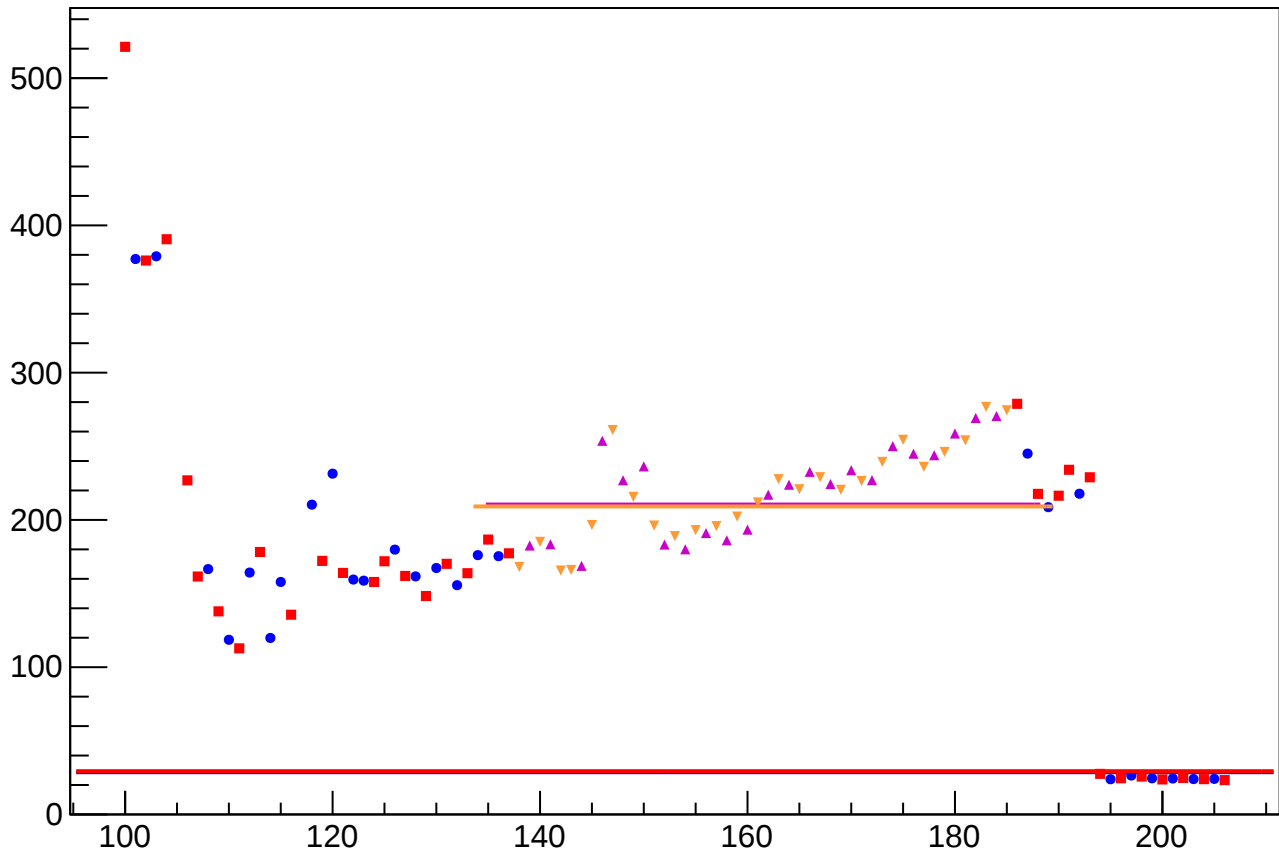
All: 177.234 $\pm$ 0.017 χ^2 /NDF: 13861273.2/10

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -9311.188 $\pm$ 0.011 χ^2 /NDF: 5810547054226.5/25
 Left Out: 151480.339 $\pm$ 0.049 χ^2 /NDF: 1483692735.3/24
 Right Out: -8209.051 $\pm$ 0.011 χ^2 /NDF: 7136822968950.3/30
 Left In: 151362.440 $\pm$ 0.051 χ^2 /NDF: 1426782789.9/22
 Left: 151423.440 $\pm$ 0.036 χ^2 /NDF: 2913216467.1/24
 Right: -8750.414 $\pm$ 0.008 χ^2 /NDF: 1295242290134.7/24
 In: -2154.601 $\pm$ 0.011 χ^2 /NDF: 15212785124613.7/24
 Out: -859.162 $\pm$ 0.011 χ^2 /NDF: 17077963991382.4/24
 All: -1494.970 $\pm$ 0.008 χ^2 /NDF: 3229806085.7/24

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.689 $\pm$ 0.008 χ^2 /NDF: 11311382.6/25

Left Out: 209.156 $\pm$ 0.035 χ^2 /NDF: 710094.9/24

Right Out: 29.373 $\pm$ 0.008 χ^2 /NDF: 13453965.8/30

Left In: 210.431 $\pm$ 0.036 χ^2 /NDF: 684015.0/22

Left: 209.771 $\pm$ 0.025 χ^2 /NDF: 1394750.9/47

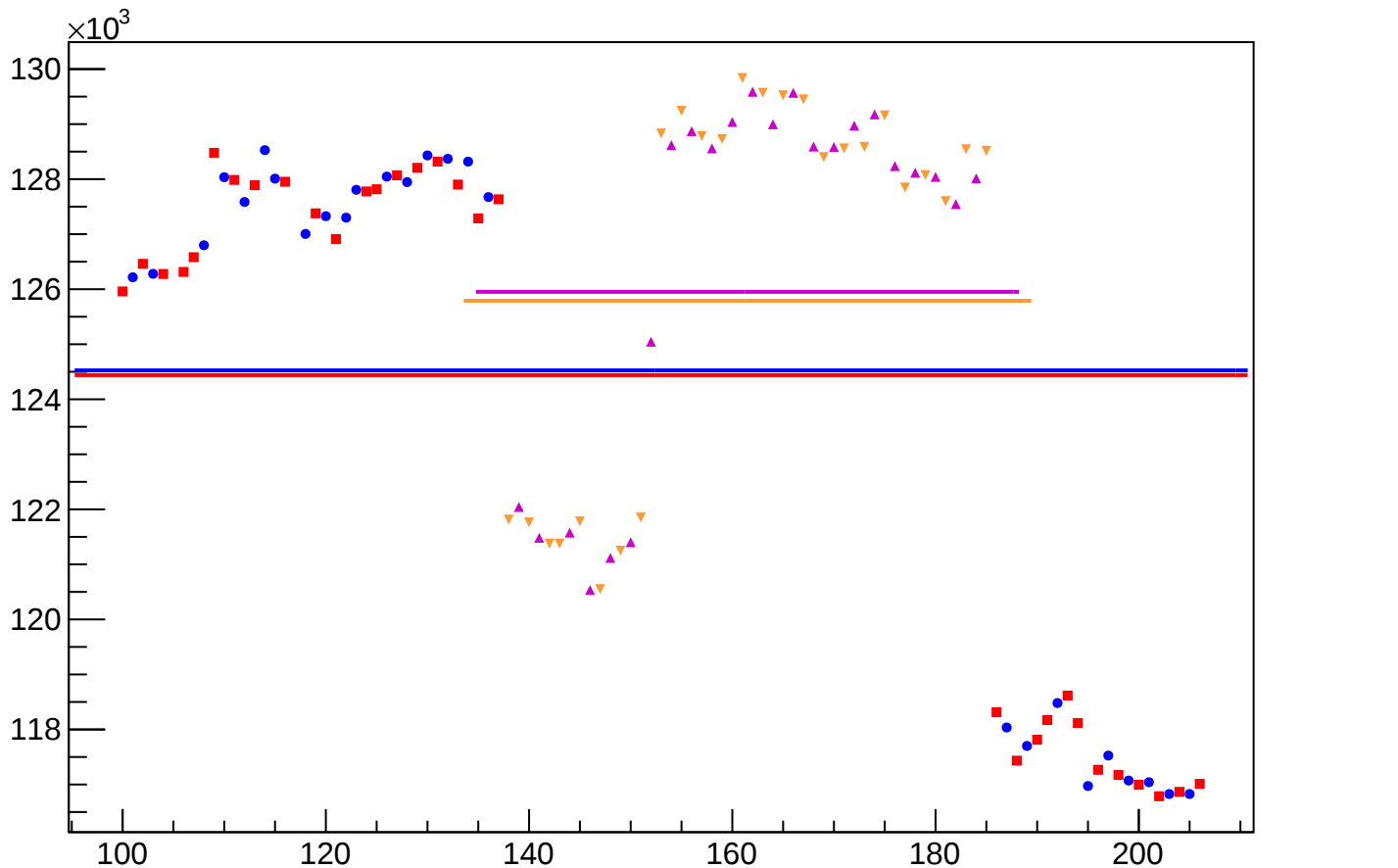
Right: 29.037 $\pm$ 0.005 χ^2 /NDF: 24769241.8/56

In: 36.784 $\pm$ 0.008 χ^2 /NDF: 36050949.1/48

Out: 37.648 $\pm$ 0.008 χ^2 /NDF: 39360823.2/55

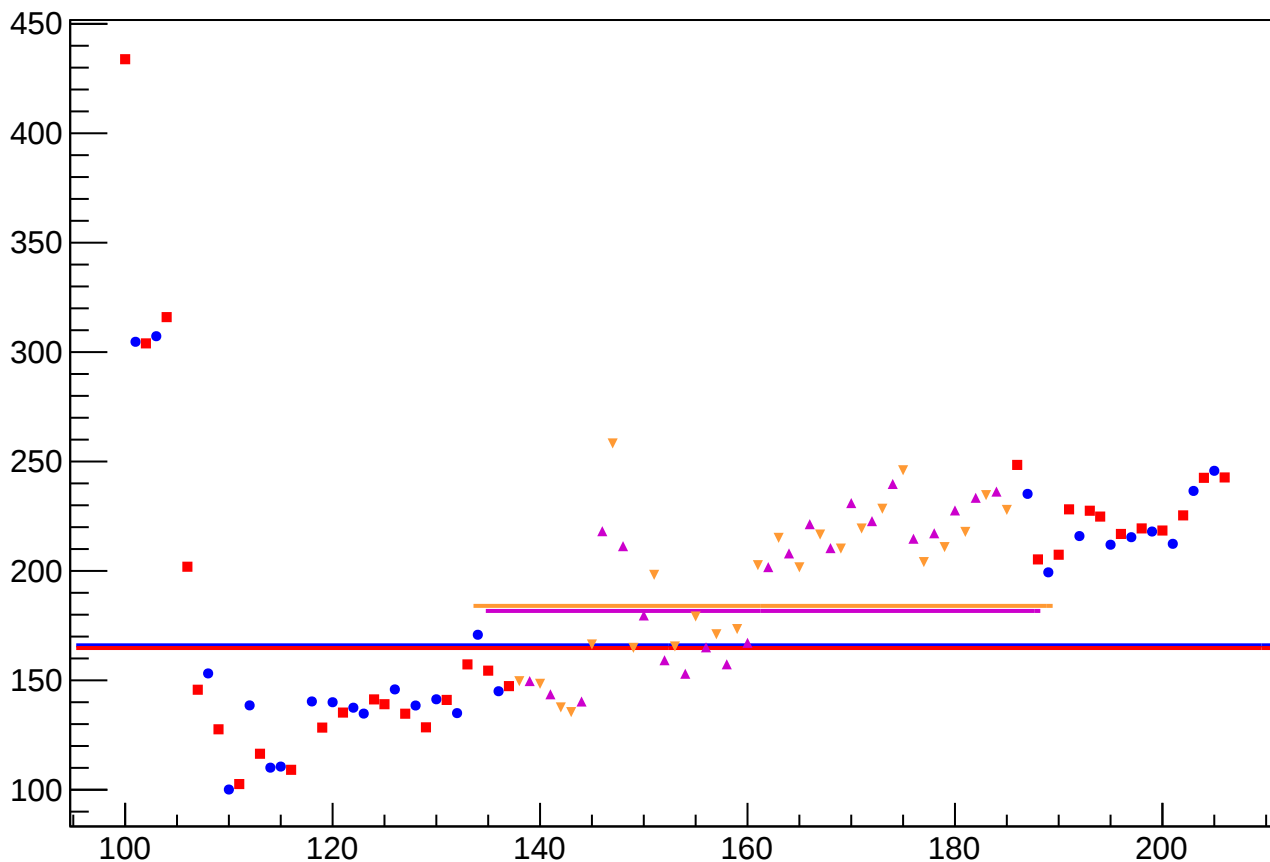
All: 37.224 $\pm$ 0.005 χ^2 /NDF: 75418274.4/104

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124525.387 $\pm$ 0.049	χ^2 /NDF: 9839962596.1/25	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6/25
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 124478.758 $\pm$ 0.033	χ^2 /NDF: 21336067587.9/24
Right Out: 124438.843 $\pm$ 0.045	χ^2 /NDF: 11494396937.8/30	In: 125299.149 $\pm$ 0.033	χ^2 /NDF: 16149135736.3/30
Left In: 125952.447 $\pm$ 0.045	χ^2 /NDF: 5841800367.5/22	Out: 125129.824 $\pm$ 0.031	χ^2 /NDF: 18700398597.9/22
		All: 125210.668 $\pm$ 0.023	χ^2 /NDF: 348633864.0/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 166.003 $\pm$ 0.034 χ^2 /NDF: 1950673.1/25

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 164.765 $\pm$ 0.032 χ^2 /NDF: 2625859.1/30

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

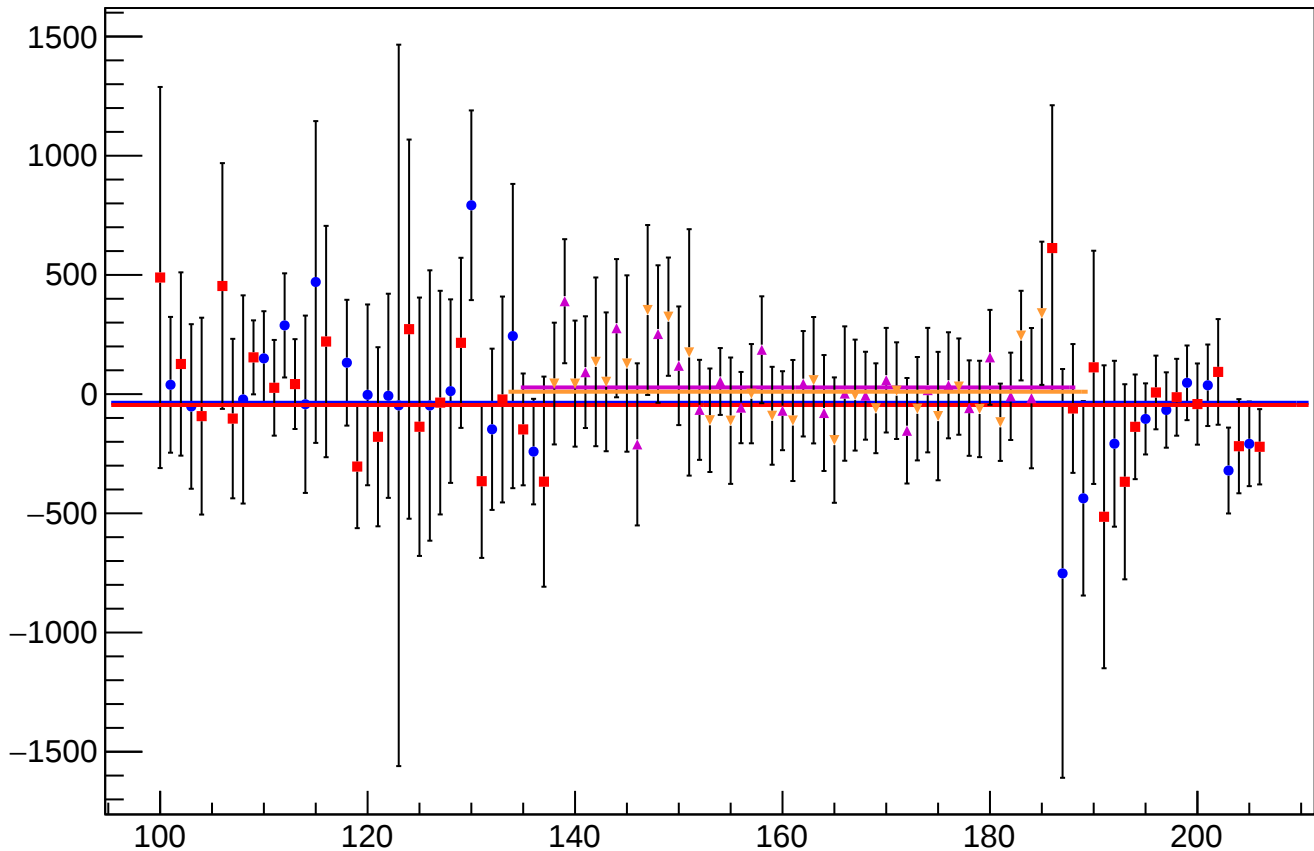
Right: 165.336 $\pm$ 0.023 χ^2 /NDF: 4577231.4/56

In: 174.522 $\pm$ 0.023 χ^2 /NDF: 3180105.2/48

Out: 174.616 $\pm$ 0.022 χ^2 /NDF: 3940115.8/55

All: 174.571 $\pm$ 0.016 χ^2 /NDF: 7120229.6/104

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -36.263 $\pm$ 50.310 χ^2/NDF : 15.7/25

Left Out: 10.078 $\pm$ 47.488 χ^2/NDF : 8.5/24

Right Out: -45.491 $\pm$ 46.920 χ^2/NDF : 12.7/30

Left In: 28.050 $\pm$ 44.573 χ^2/NDF : 7.0/22

Left: 19.632 $\pm$ 32.499 χ^2/NDF : 15.5/47

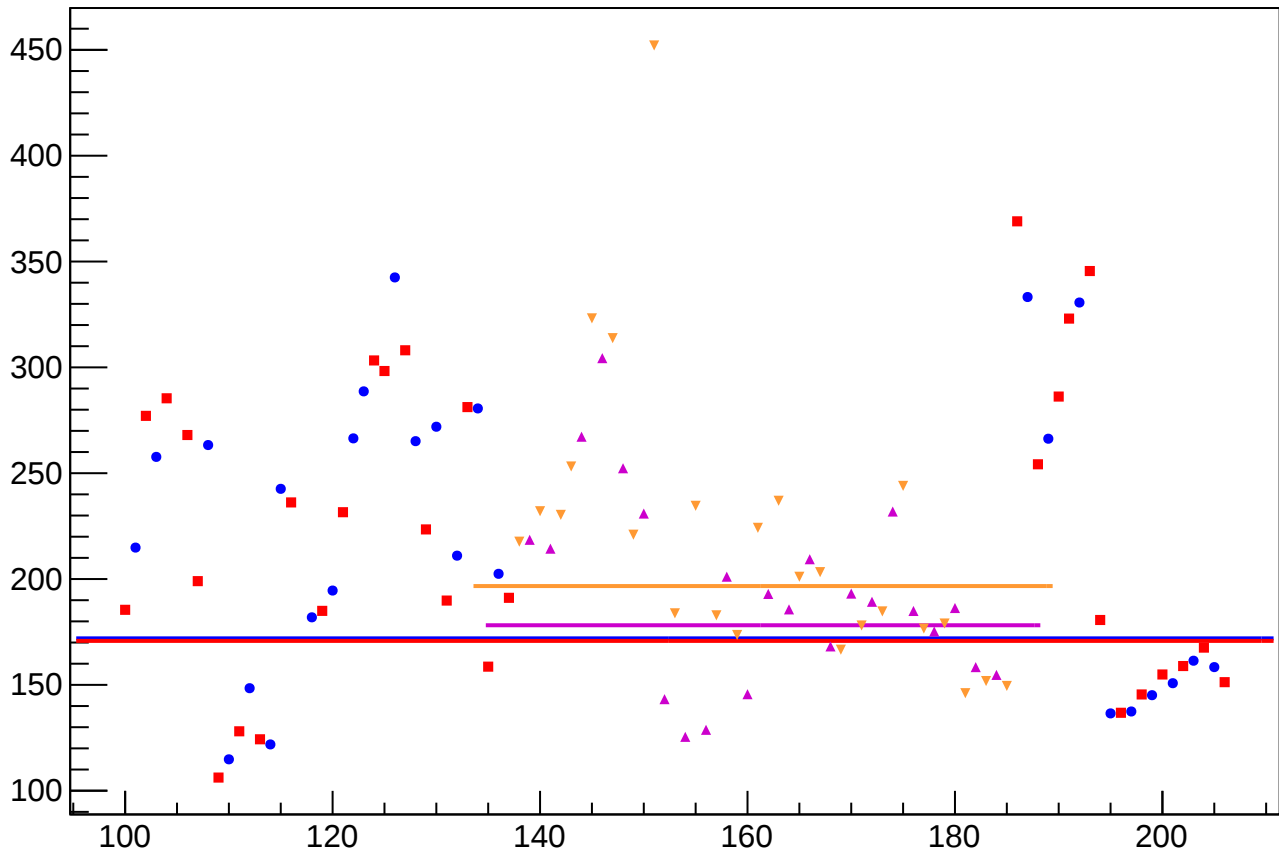
Right: -41.198 $\pm$ 34.313 χ^2/NDF : 28.4/56

In: -0.232 $\pm$ 33.363 χ^2/NDF : 23.6/48

Out: -18.041 $\pm$ 33.377 χ^2/NDF : 21.8/55

All: -9.133 $\pm$ 23.596 χ^2/NDF : 45.6/104

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 171.970 $\pm$ 0.036 χ^2 /NDF: 2081114.0/25

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 170.779 $\pm$ 0.033 χ^2 /NDF: 2779929.7/30

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

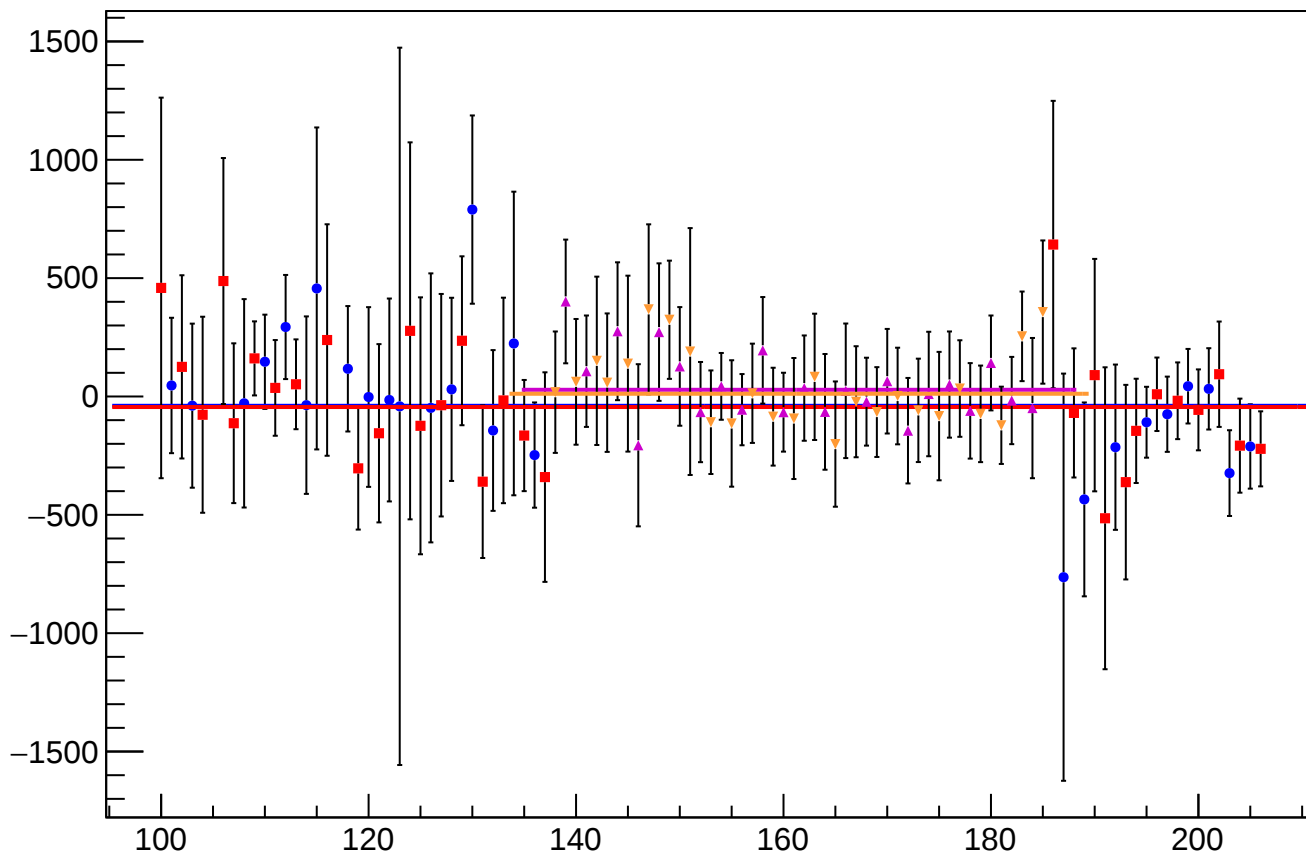
Right: 171.333 $\pm$ 0.024 χ^2 /NDF: 4861642.7/56

In: 175.441 $\pm$ 0.024 χ^2 /NDF:3717075.2/48

Out: 183.575 $\pm$ 0.024 χ^2 /NDF:4863736.4/55

All: 179.506 $\pm$ 0.017 χ^2 /NDF: 8640222.3/104

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -39.338 ± 50.556 χ^2/NDF : 15.7/25

Left Out: 11.479 ± 47.819 χ^2/NDF : 8.8/24

Right Out: -44.543 ± 47.156 χ^2/NDF : 12.9/30

Left In: 28.280 ± 44.863 χ^2/NDF : 7.1/22

Left: 20.415 ± 32.718 χ^2/NDF : 16.0/47

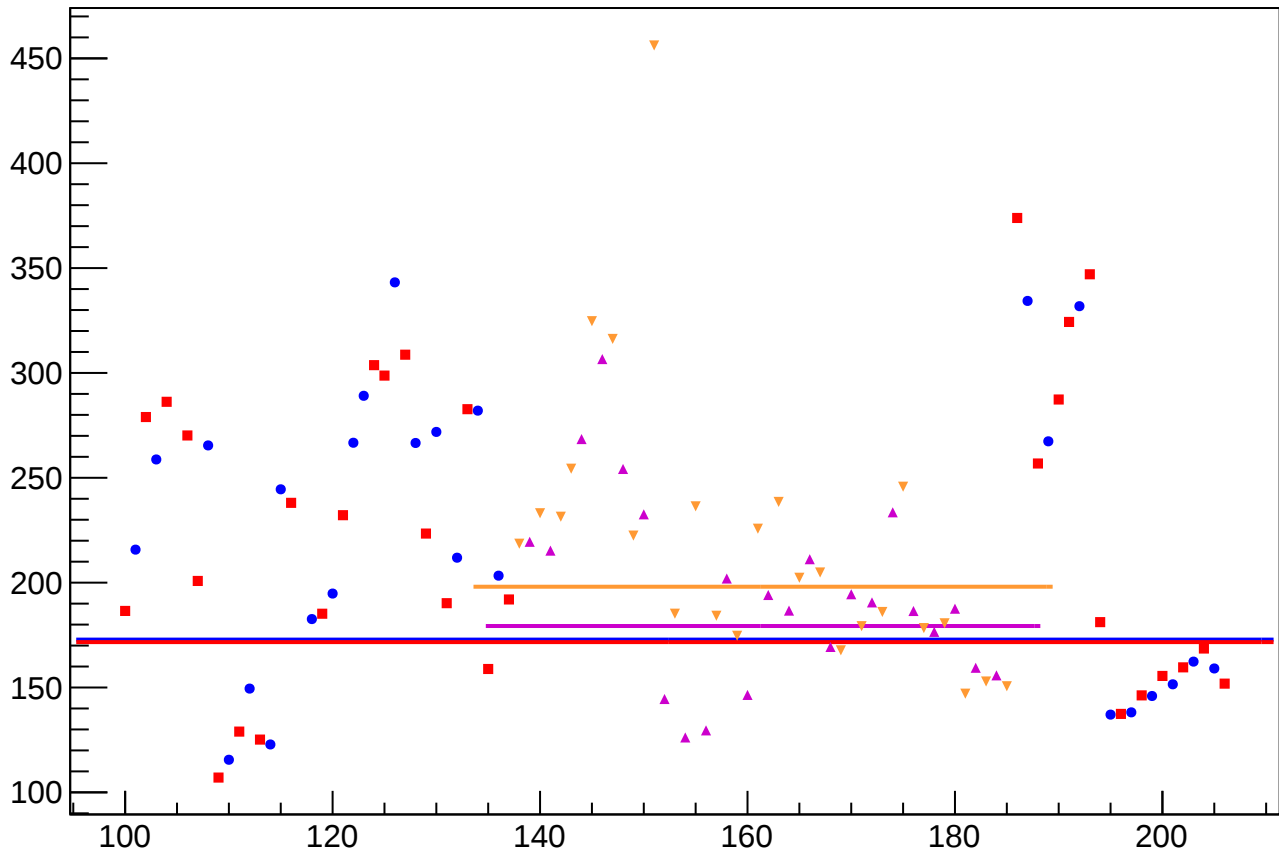
Right: -42.121 ± 34.484 χ^2/NDF : 28.6/56

In: -1.509 ± 33.556 χ^2/NDF : 23.8/48

Out: -16.923 ± 33.576 χ^2/NDF : 22.4/55

All: -9.212 ± 23.735 χ^2/NDF : 46.3/104

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 172.841 $\pm$ 0.036 χ^2 /NDF: 2071753.8/25

Left Out: 198.059 $\pm$ 0.034 χ^2 /NDF:1778526.5/24

Right Out: 171.650 $\pm$ 0.033 χ^2 /NDF: 2775338.1/30

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

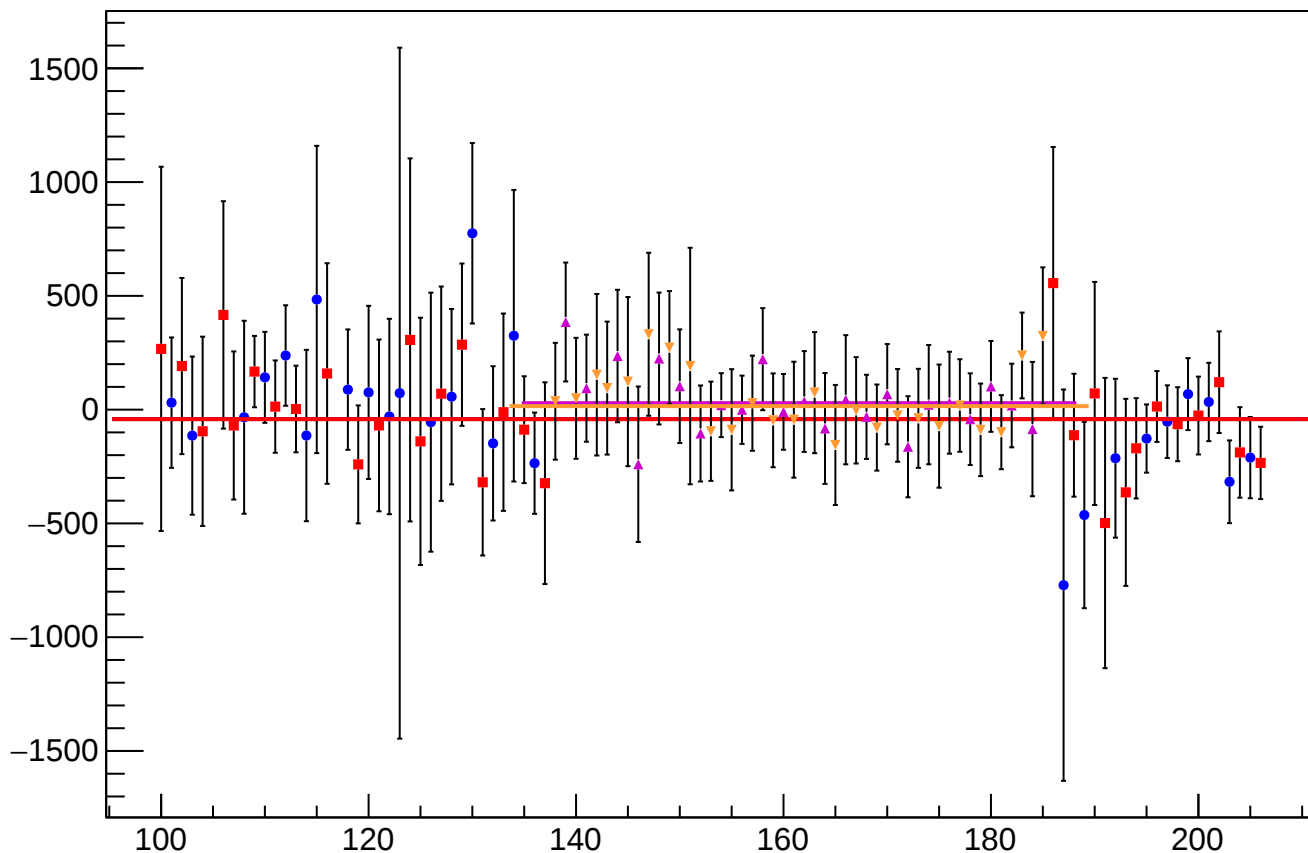
Right: 172.204 $\pm$ 0.024 χ^2 /NDF: 4847685.5/56

In: 176.468 $\pm$ 0.024 χ^2 /NDF:3708418.6/48

Out: 184.670 $\pm$ 0.024 χ^2 /NDF:4863124.5/55

All: 180.566 $\pm$ 0.017 χ^2 /NDF: 8631254.1/104

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -41.420 ± 50.633 $\chi^2/\text{NDF}: 15.3/25$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -41.709 ± 47.164 $\chi^2/\text{NDF}: 11.6/30$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

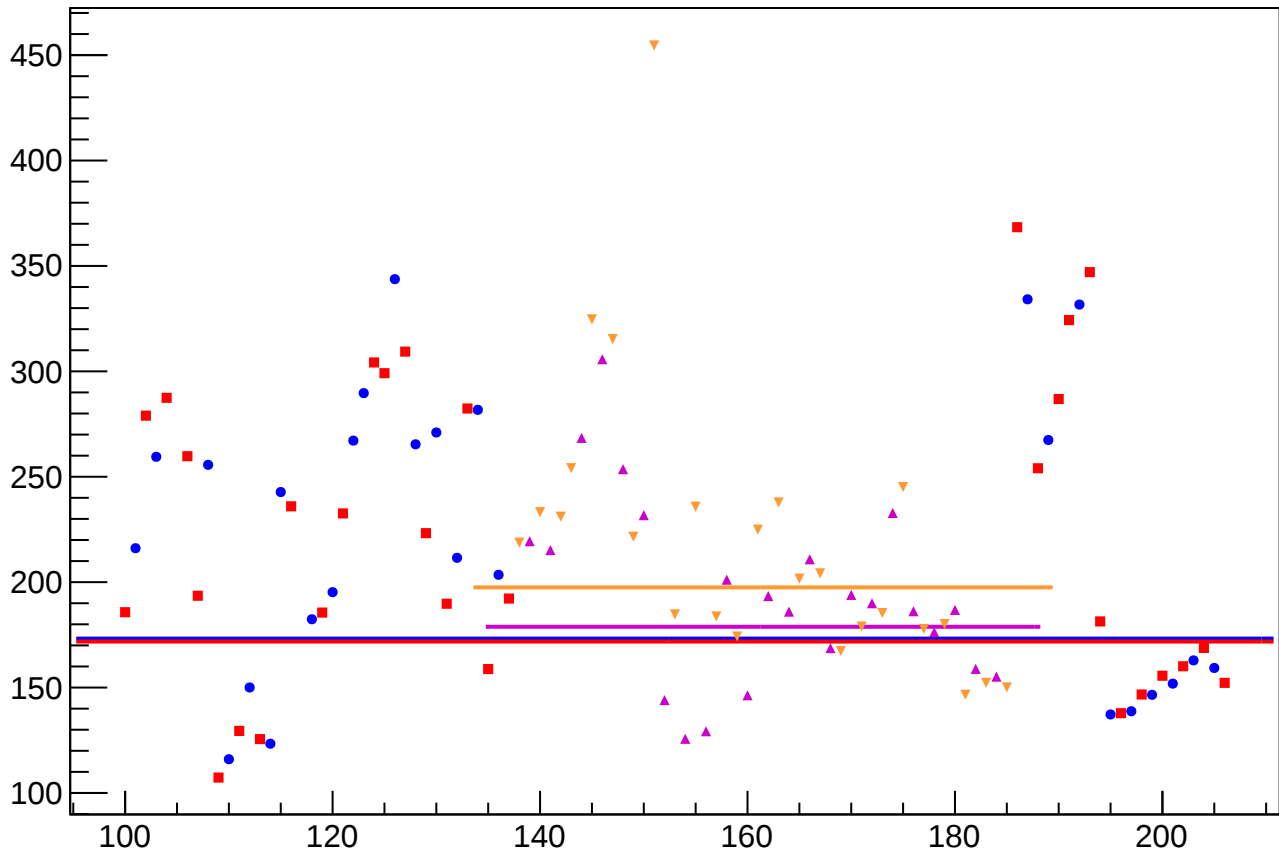
Right: -41.575 ± 34.511 $\chi^2/\text{NDF}: 26.9/56$

In: -2.284 ± 33.528 $\chi^2/\text{NDF}: 22.7/48$

Out: -13.456 ± 33.536 $\chi^2/\text{NDF}: 19.3/55$

All: -7.869 ± 23.711 $\chi^2/\text{NDF}: 42.1/104$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 173.219 $\pm$ 0.036 χ^2 /NDF: 2040778.4/25

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF:1784225.5/24

Right Out: 171.820 $\pm$ 0.033 χ^2 /NDF: 2730187.6/30

Left In: 178.836 $\pm$ 0.032 χ^2 /NDF:1622266.9/22

Left: 187.585 $\pm$ 0.023 χ^2 /NDF: 3569877.1/47

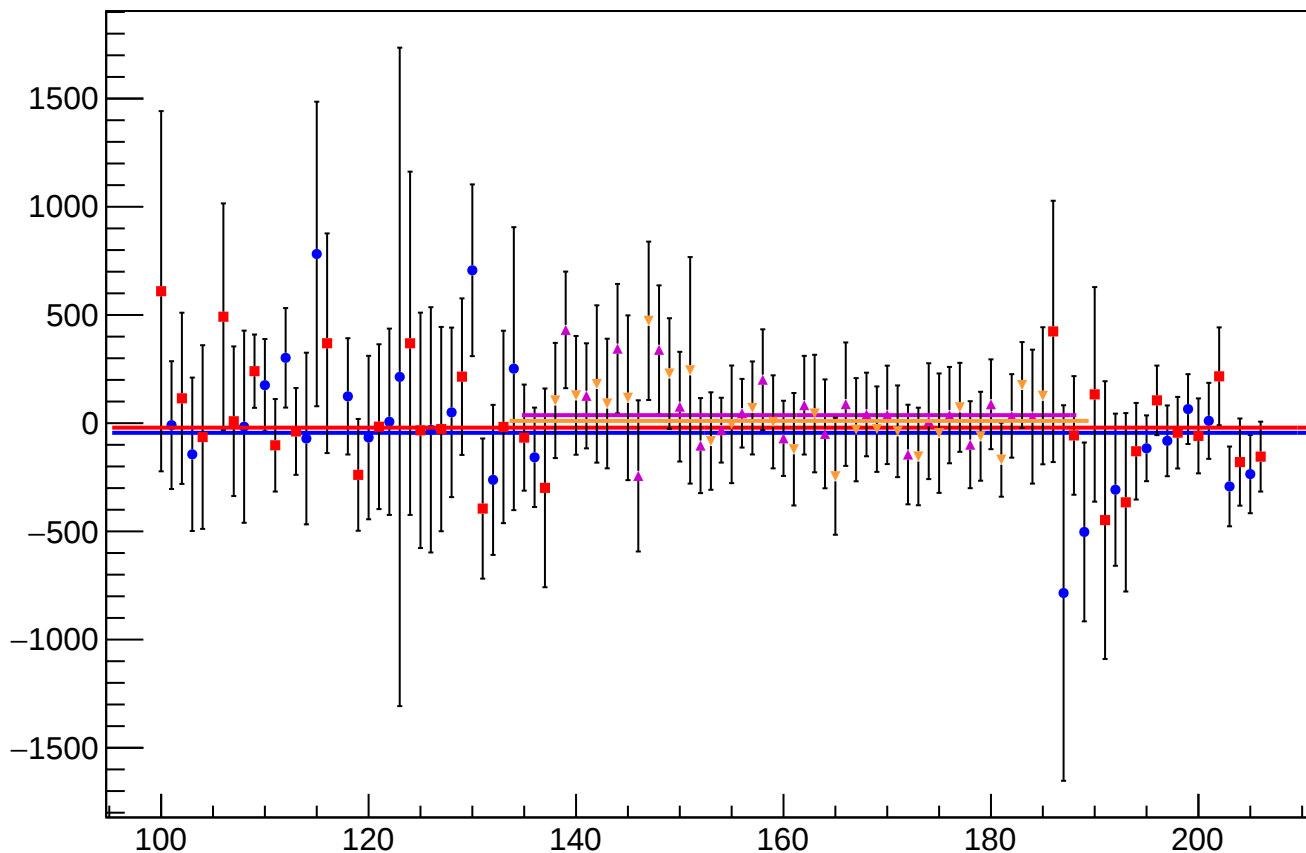
Right: 172.470 $\pm$ 0.024 χ^2 /NDF: 4771783.7/56

In: 176.373 $\pm$ 0.024 χ^2 /NDF:3676866.1/48

Out: 184.530 $\pm$ 0.024 χ^2 /NDF:4808193.3/55

All: 180.450 $\pm$ 0.017 χ^2 /NDF: 8544232.6/104

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -44.501 ± 51.792 χ^2/NDF : 16.0/25

Left Out: 10.534 ± 49.197 χ^2/NDF : 7.5/24

Right Out: -20.690 ± 48.480 χ^2/NDF : 13.0/30

Left In: 37.000 ± 46.358 χ^2/NDF : 7.9/22

Left: 24.553 ± 33.739 χ^2/NDF : 15.5/47

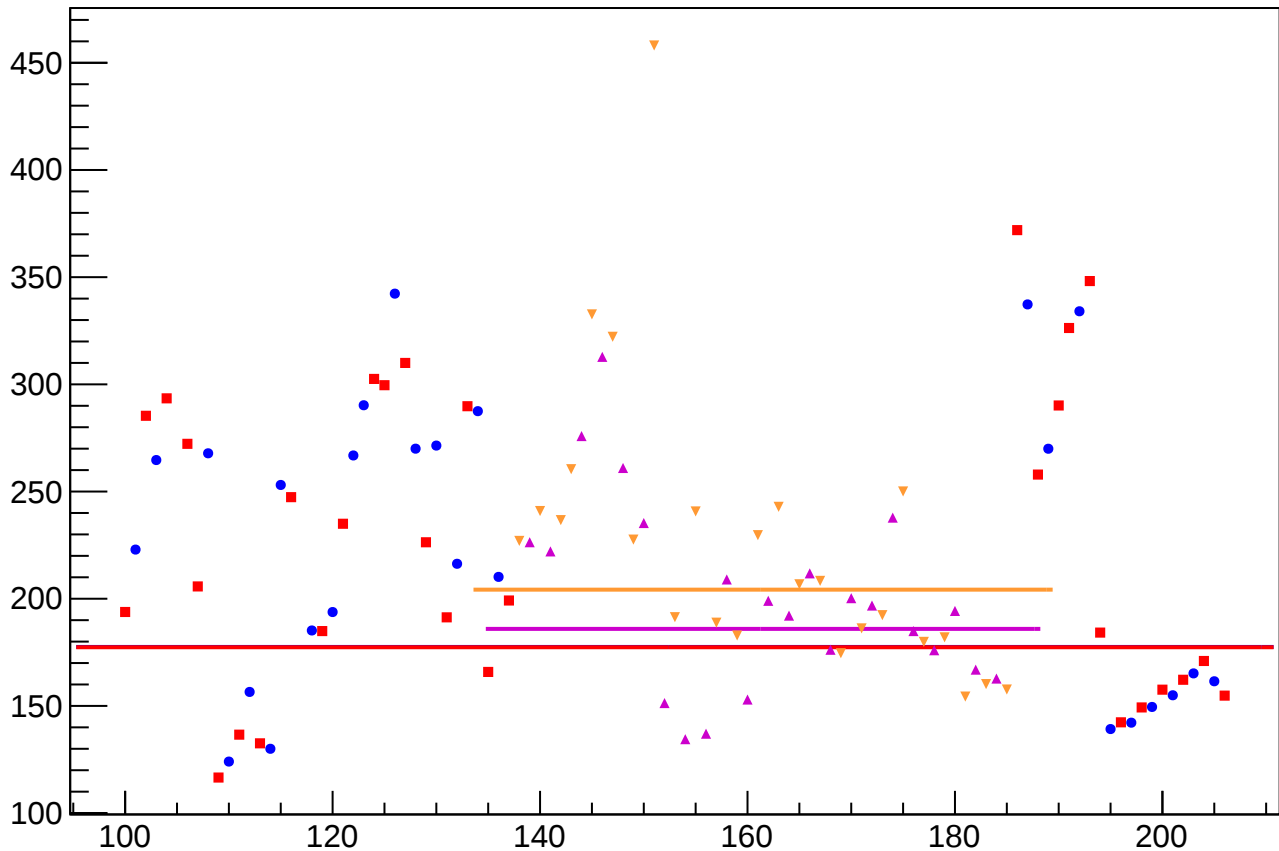
Right: -31.810 ± 35.394 χ^2/NDF : 29.2/56

In: 0.748 ± 34.542 χ^2/NDF : 25.3/48

Out: -5.307 ± 34.531 χ^2/NDF : 20.7/55

All: -2.280 ± 24.421 χ^2/NDF : 46.0/104

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 177.506 $\pm$ 0.037 χ^2 /NDF: 1965329.9/25

Left Out: 204.236 $\pm$ 0.035 χ^2 /NDF:1675666.0/24

Right Out: 177.371 $\pm$ 0.034 χ^2 /NDF: 2545893.8/30

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

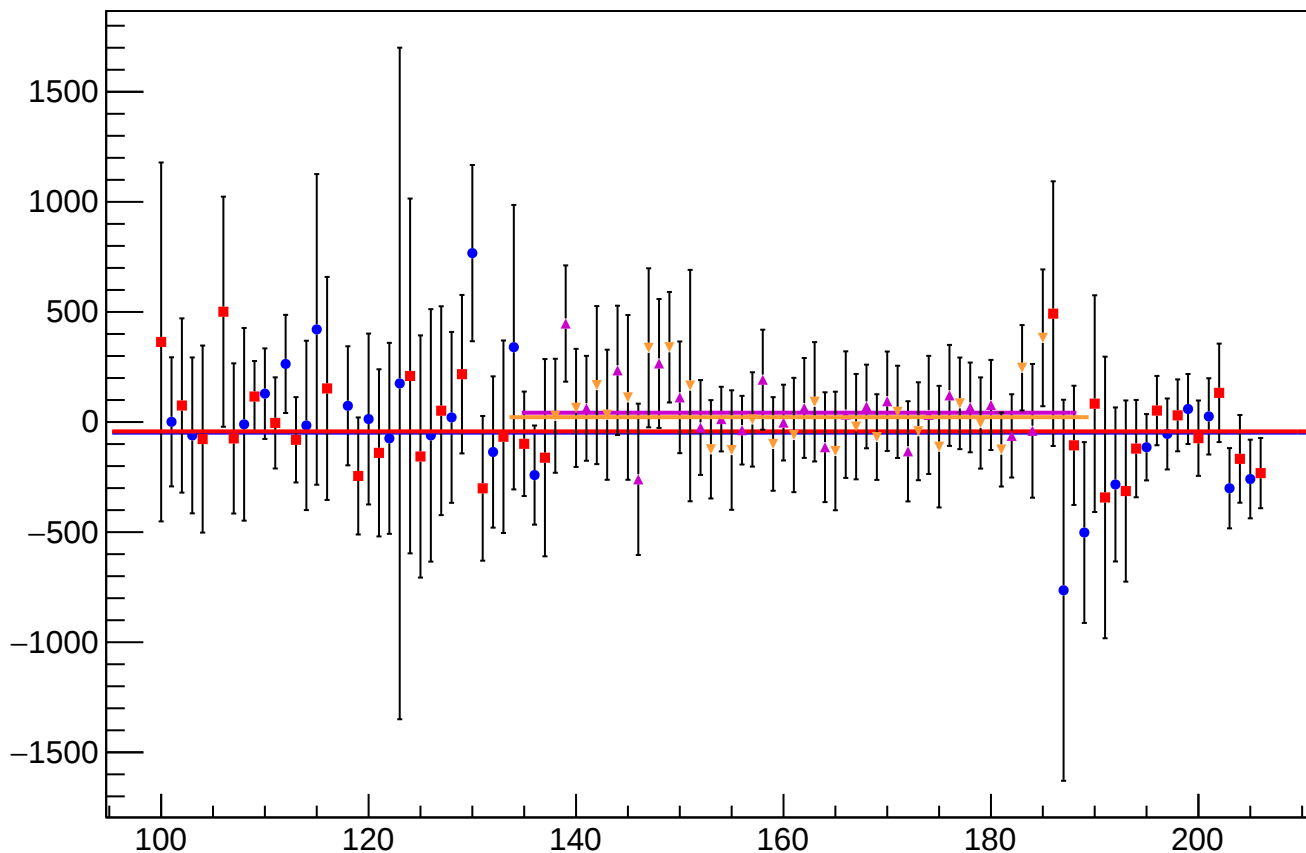
Right: 177.434 $\pm$ 0.025 χ^2 /NDF: 4511231.0/56

In: 182.184 $\pm$ 0.024 χ^2 /NDF:3454780.7/48

Out: 190.606 $\pm$ 0.024 χ^2 /NDF:4524133.6/55

All: 186.396 $\pm$ 0.017 χ^2 /NDF: 8038387.8/104

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -48.091 $\pm$ 51.137 χ^2 /NDF: 15.3/25

Left Out: 22.189 $\pm$ 48.738 χ^2 /NDF:8.4/24

Right Out: -42.456 $\pm$ 47.708 χ^2 /NDF: 9.4/30

Left In: 42.446 $\pm$ 45.861 χ^2 /NDF:6.7/22

Left: 32.933 $\pm$ 33.399 χ^2 /NDF: 15.2/47

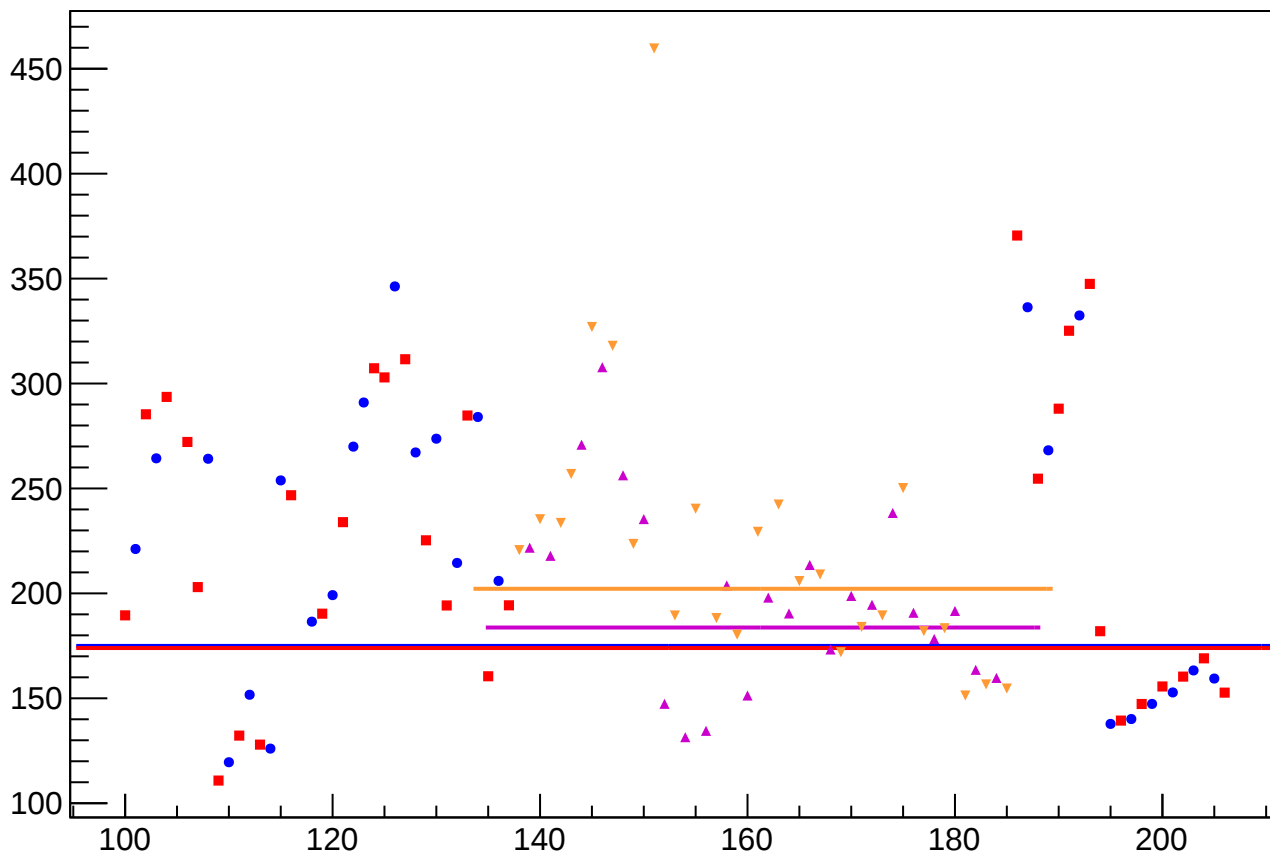
Right: -45.078 $\pm$ 34.884 χ^2 /NDF: 24.7/56

In: 2.088 $\pm$ 34.142 χ^2 /NDF:23.8/48

Out: -10.824 $\pm$ 34.093 χ^2 /NDF:18.7/55

All: -4.377 $\pm$ 24.125 χ^2 /NDF: 42.5/104

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 174.959 $\pm$ 0.036 χ^2 /NDF: 2048062.6/25

Left Out: 202.186 $\pm$ 0.034 χ^2 /NDF:1696571.9/24

Right Out: 173.957 $\pm$ 0.034 χ^2 /NDF: 2709043.8/30

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

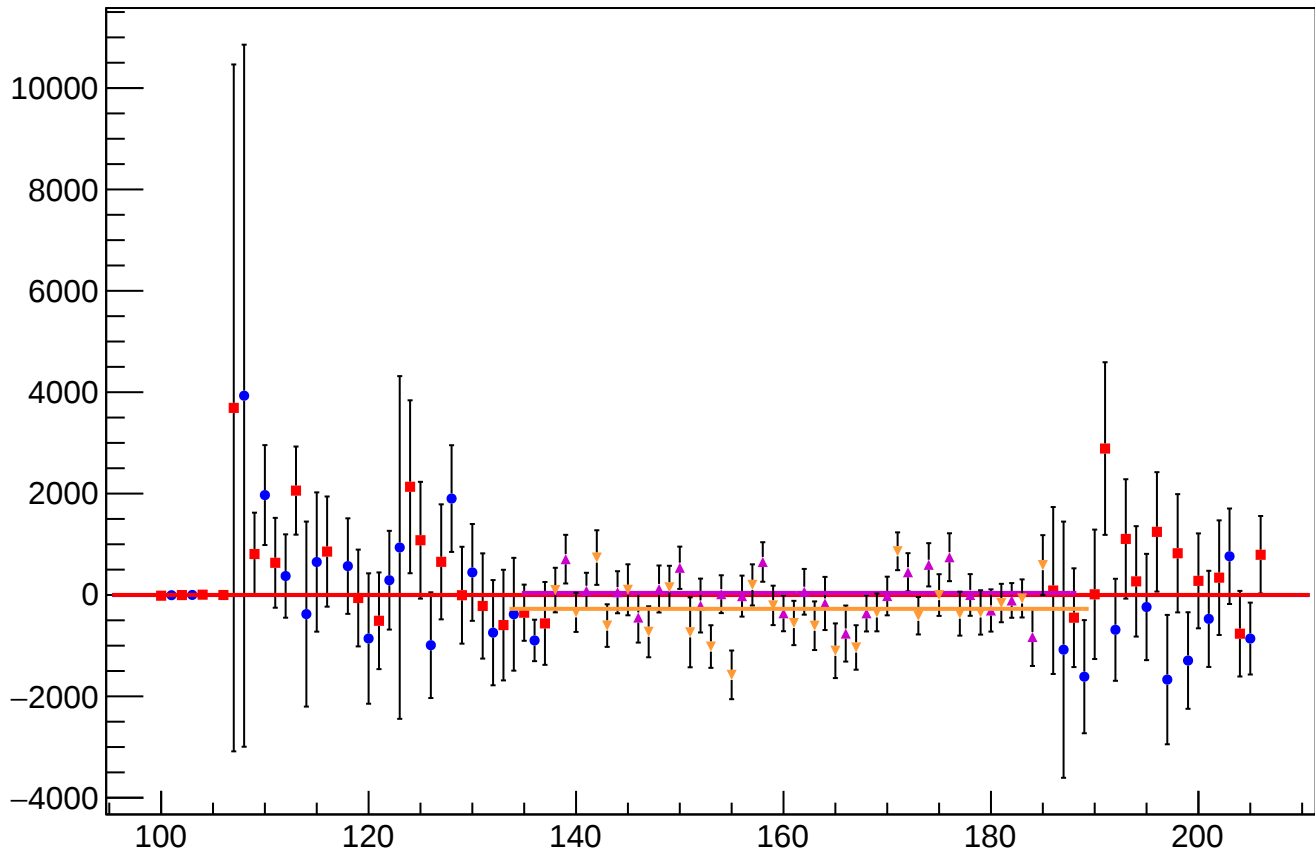
Right: 174.423 $\pm$ 0.025 χ^2 /NDF: 4757517.4/56

In: 179.822 $\pm$ 0.024 χ^2 /NDF:3576616.2/48

Out: 187.770 $\pm$ 0.024 χ^2 /NDF:4748258.6/55

All: 183.801 $\pm$ 0.017 χ^2 /NDF: 8379148.6/104

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.560 ± 2.251 χ^2/NDF : 25.6/25

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.748 ± 2.111 χ^2/NDF : 25.9/30

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

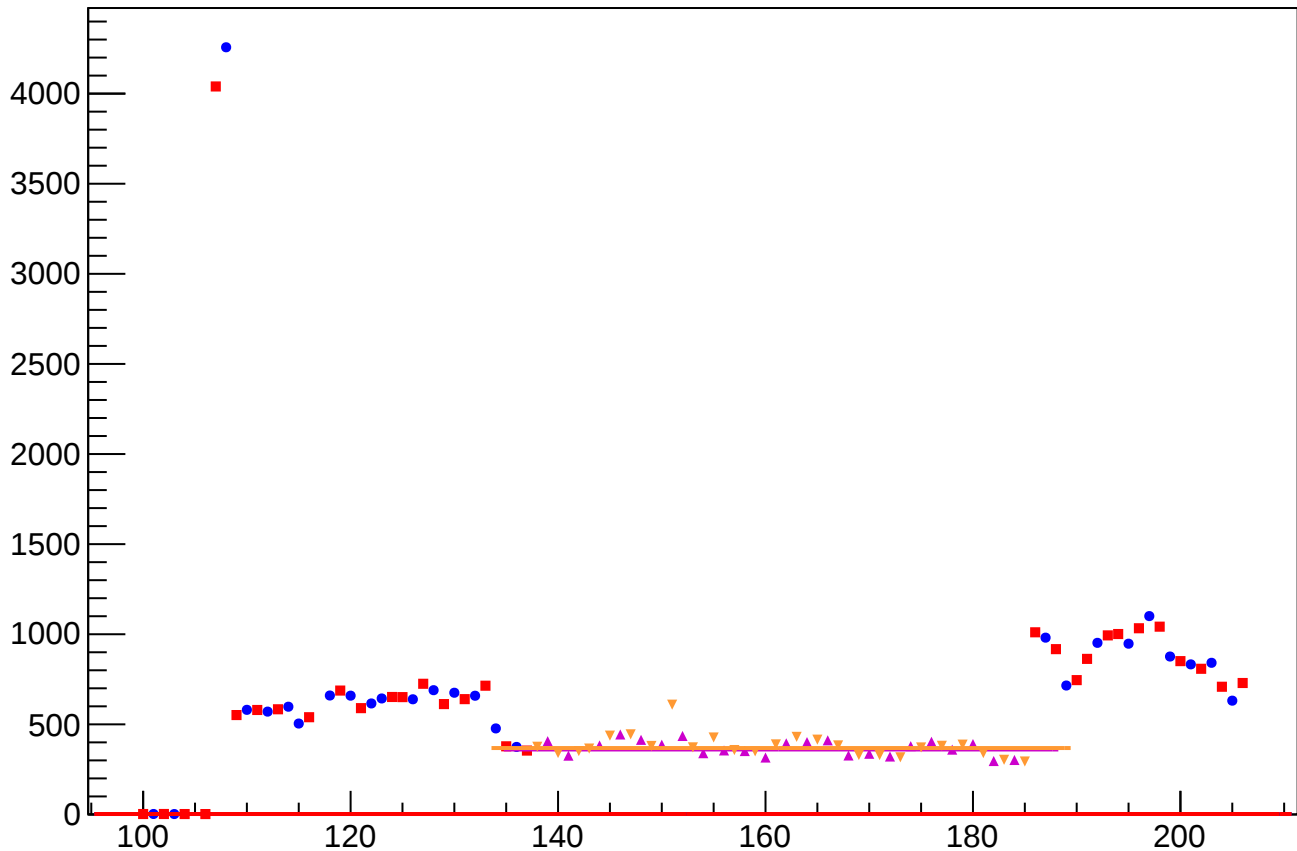
Right: -0.332 ± 1.540 χ^2/NDF : 52.1/56

In: -1.532 ± 2.251 χ^2/NDF : 46.0/48

Out: 0.586 ± 2.110 χ^2/NDF : 74.2/55

All: -0.405 ± 1.539 χ^2/NDF : 120.7/104

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.493+/-0.002 χ^2/NDF : 23050800.6/25

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.477+/-0.001 χ^2/NDF : 26879535.6/30

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

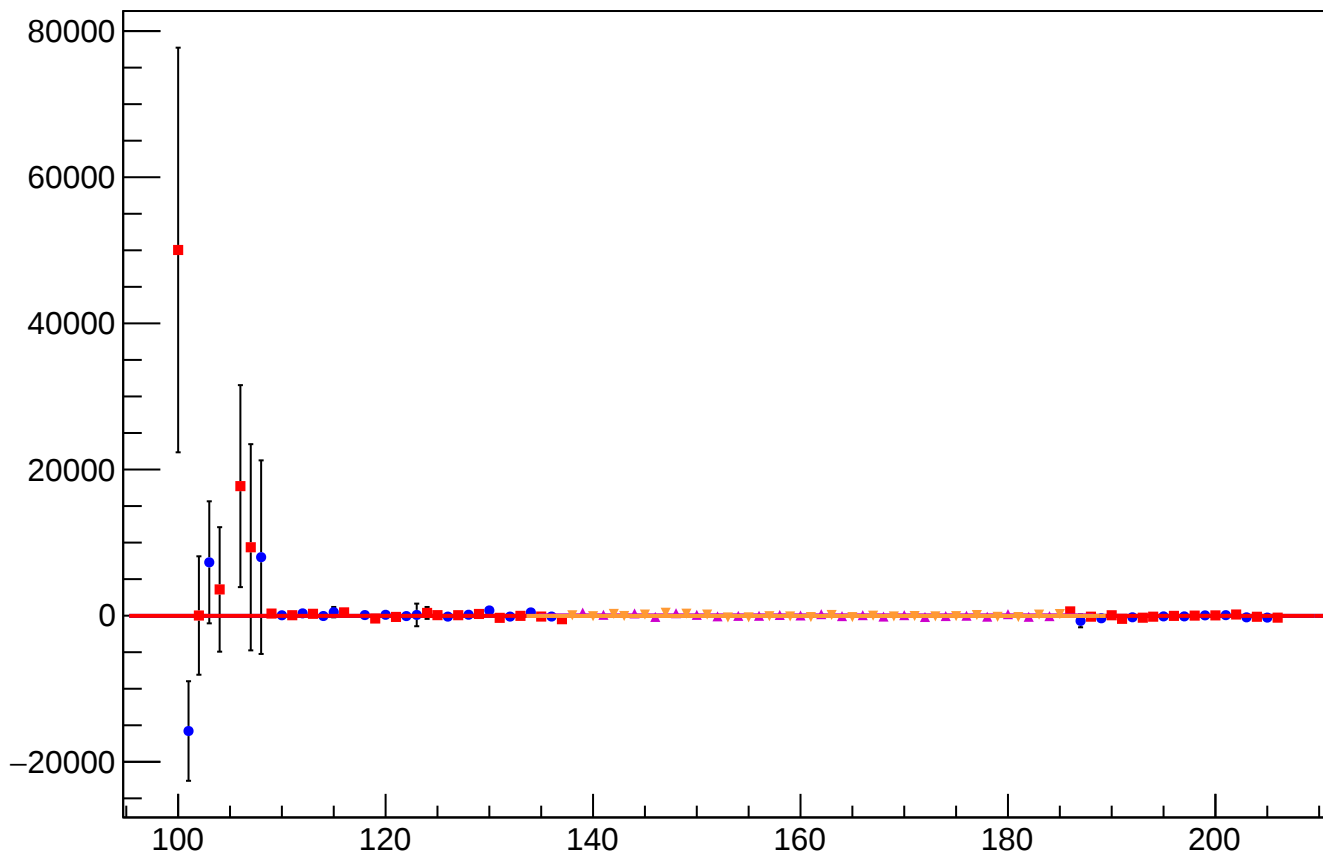
Right: 2.484+/-0.001 χ^2/NDF : 49930391.6/56

In: 2.730+/-0.002 χ^2/NDF : 56967895.9/48

Out: 2.693+/-0.001 χ^2/NDF : 62988711.5/55

All: 2.710+/-0.001 χ^2/NDF : 119956899.4/104

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -30.195 ± 56.212 χ^2/NDF : 18.8/25

Left Out: -39.036 ± 49.576 χ^2/NDF : 9.1/24

Right Out: -24.662 ± 53.289 χ^2/NDF : 20.0/30

Left In: 28.062 ± 48.032 χ^2/NDF : 9.6/22

Left: -4.426 ± 34.497 χ^2/NDF : 19.7/47

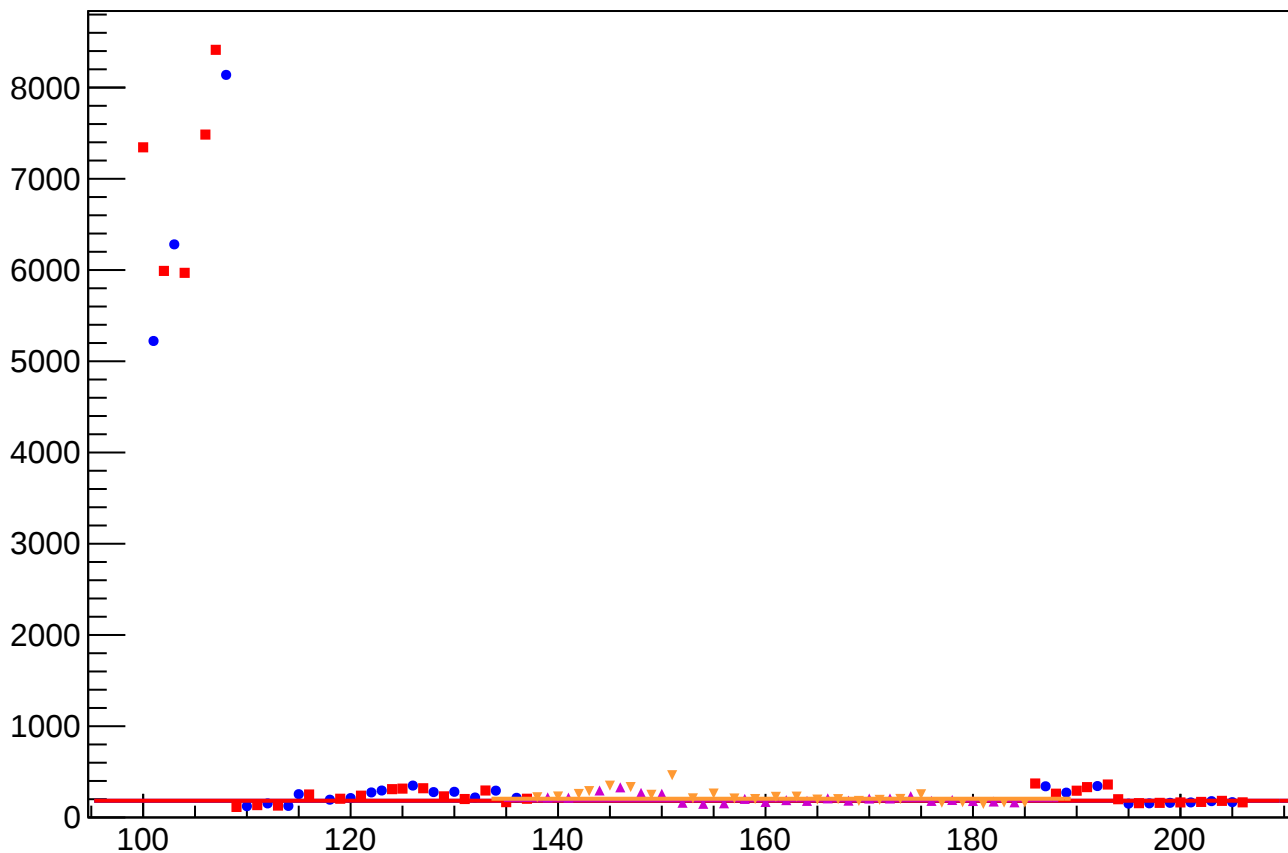
Right: -27.281 ± 38.673 χ^2/NDF : 38.8/56

In: 3.476 ± 36.516 χ^2/NDF : 29.0/48

Out: -32.367 ± 36.297 χ^2/NDF : 29.2/55

All: -14.553 ± 25.743 χ^2/NDF : 58.7/104

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 182.378+/-0.040 χ^2/NDF : 4494809.0/25

Left Out: 205.114+/-0.035 χ^2/NDF :1957484.4/24

Right Out: 183.464+/-0.038 χ^2/NDF : 5354367.0/30

Left In: 193.616+/-0.034 χ^2/NDF :1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

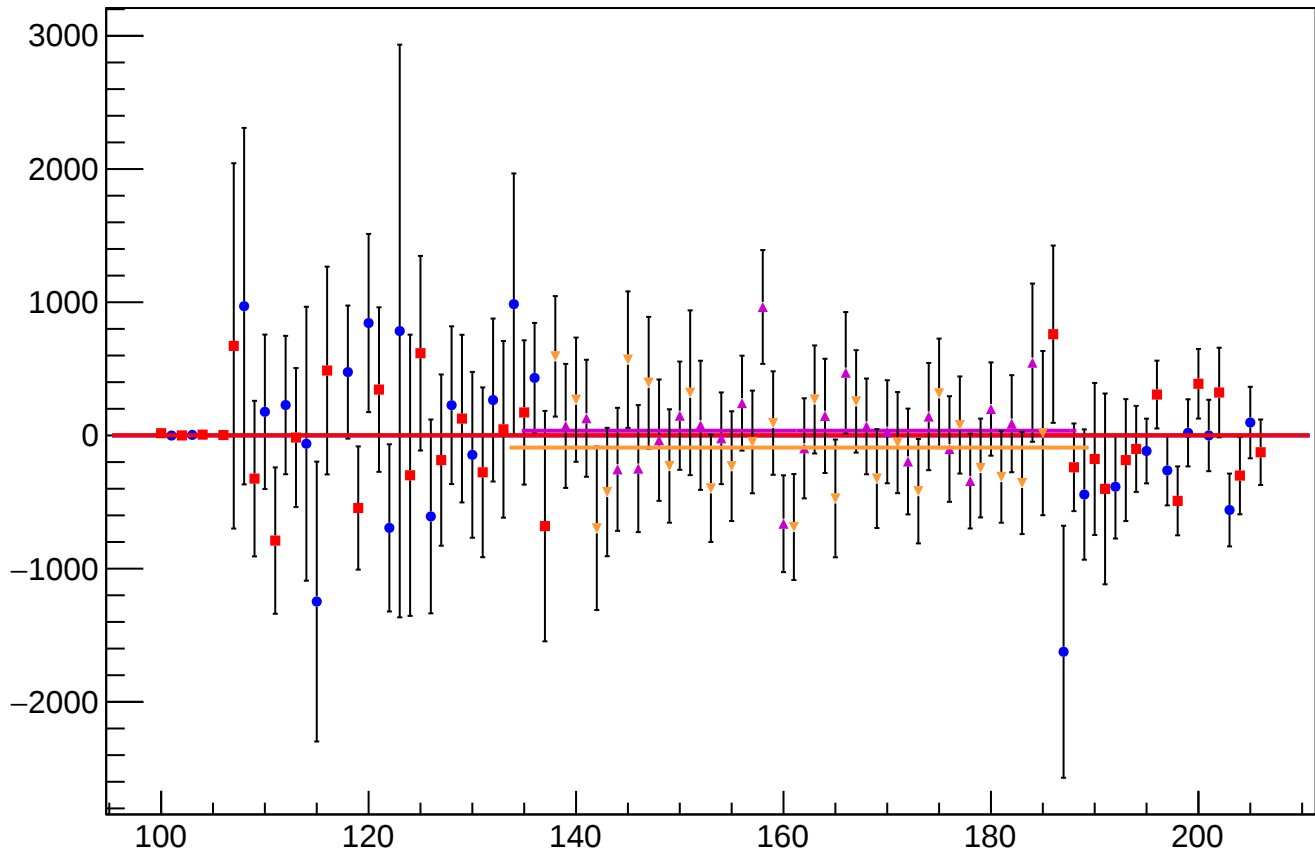
Right: 182.950+/-0.027 χ^2/NDF : 9849569.1/56

In: 188.874+/-0.026 χ^2/NDF :5720484.0/48

Out: 195.069+/-0.026 χ^2/NDF :7488807.5/55

All: 191.990+/-0.018 χ^2/NDF : 13238253.6/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.195 ± 1.736 $\chi^2/\text{NDF}: 20.4/25$

Left Out: -90.945 ± 84.079 $\chi^2/\text{NDF}: 16.4/24$

Right Out: 1.313 ± 1.622 $\chi^2/\text{NDF}: 21.3/30$

Left In: 35.488 ± 84.382 $\chi^2/\text{NDF}: 13.4/22$

Left: -27.956 ± 59.560 $\chi^2/\text{NDF}: 31.0/47$

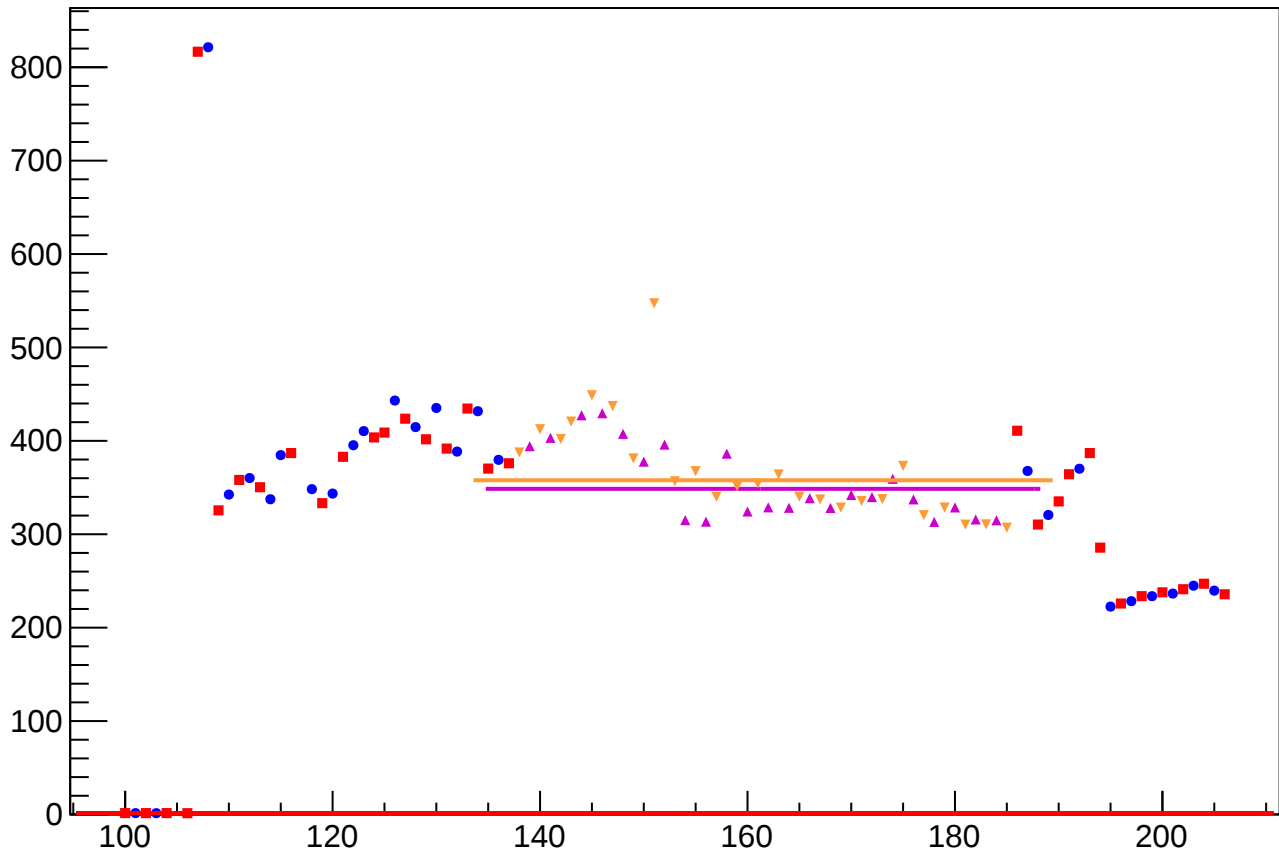
Right: 0.611 ± 1.185 $\chi^2/\text{NDF}: 42.1/56$

In: -0.179 ± 1.736 $\chi^2/\text{NDF}: 34.0/48$

Out: 1.279 ± 1.622 $\chi^2/\text{NDF}: 38.9/55$

All: 0.599 ± 1.185 $\chi^2/\text{NDF}: 73.4/104$

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.526 $\pm$ 0.001 χ^2 /NDF: 23267420.3/25

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF:547036.5/24

Right Out: 1.528 $\pm$ 0.001 χ^2 /NDF: 26575471.3/30

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

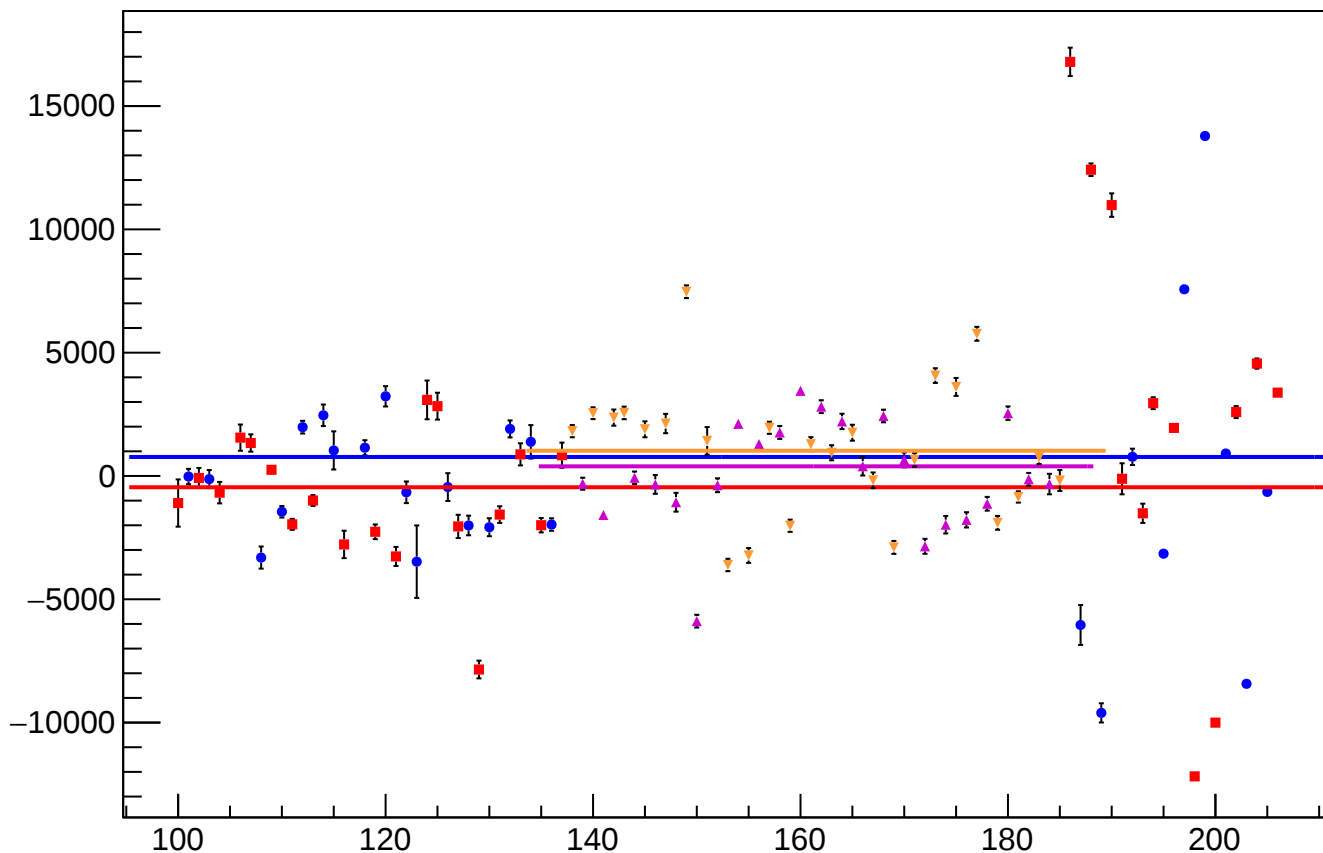
Right: 1.527 $\pm$ 0.001 χ^2 /NDF: 49842892.7/56

In: 1.673 $\pm$ 0.001 χ^2 /NDF:57453028.1/48

Out: 1.661 $\pm$ 0.001 χ^2 /NDF:63020554.3/55

All: 1.667 $\pm$ 0.001 χ^2 /NDF: 120473638.7/104

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 770.515+/-55.810 χ^2/NDF : 10839.2/25

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: -456.540+/-51.559 χ^2/NDF : 13208.9/30

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

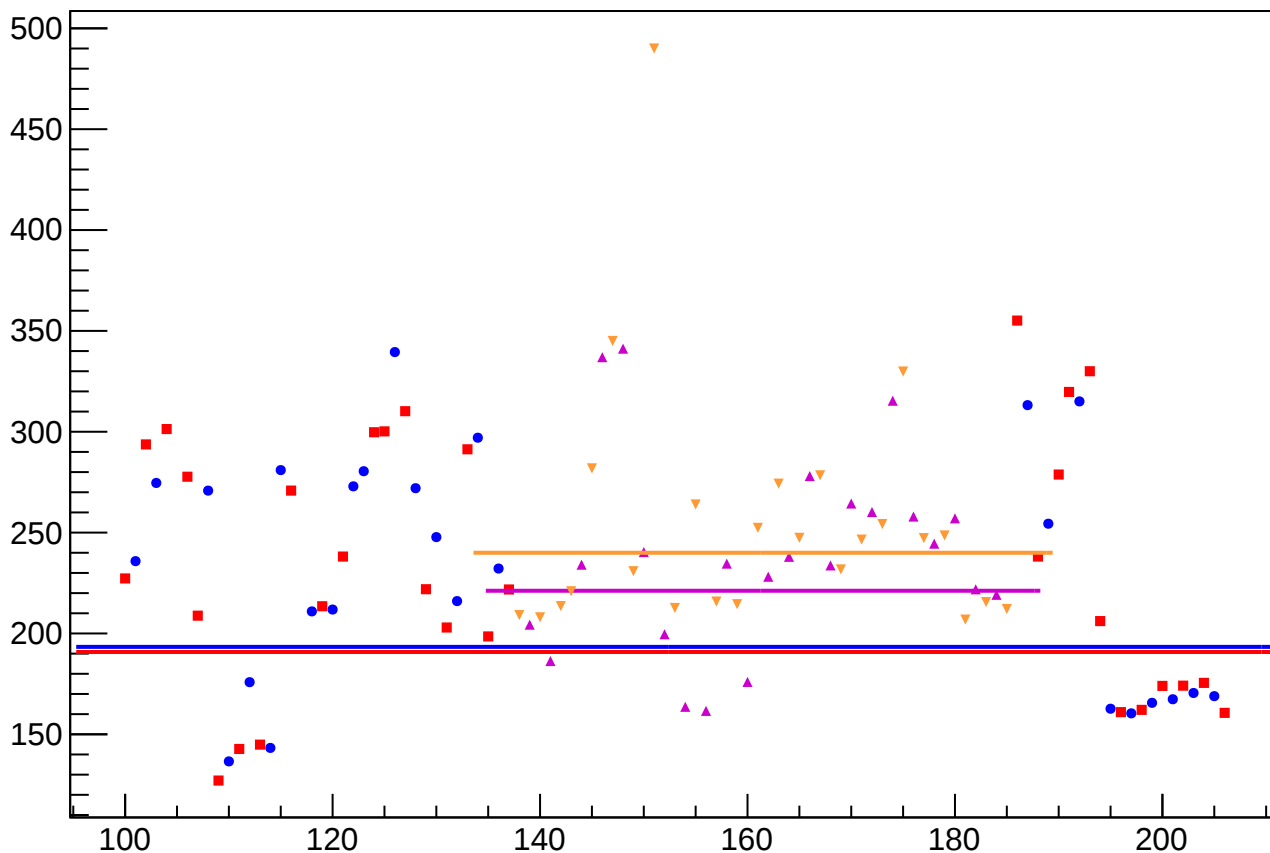
Right: 108.480+/-37.872 χ^2/NDF : 24308.9/56

In: 577.358+/-39.149 χ^2/NDF : 12447.7/48

Out: 205.131+/-38.339 χ^2/NDF : 15886.7/55

All: 387.350+/-27.392 χ^2/NDF : 28380.5/104

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 193.351+/-0.039 χ^2/NDF : 1450212.4/25

Left Out: 240.019+/-0.041 χ^2/NDF :1002427.9/24

Right Out: 190.818+/-0.036 χ^2/NDF : 2050485.7/30

Left In: 221.173+/-0.039 χ^2/NDF :1342517.8/22

Left: 230.192+/-0.028 χ^2/NDF : 2457612.6/47

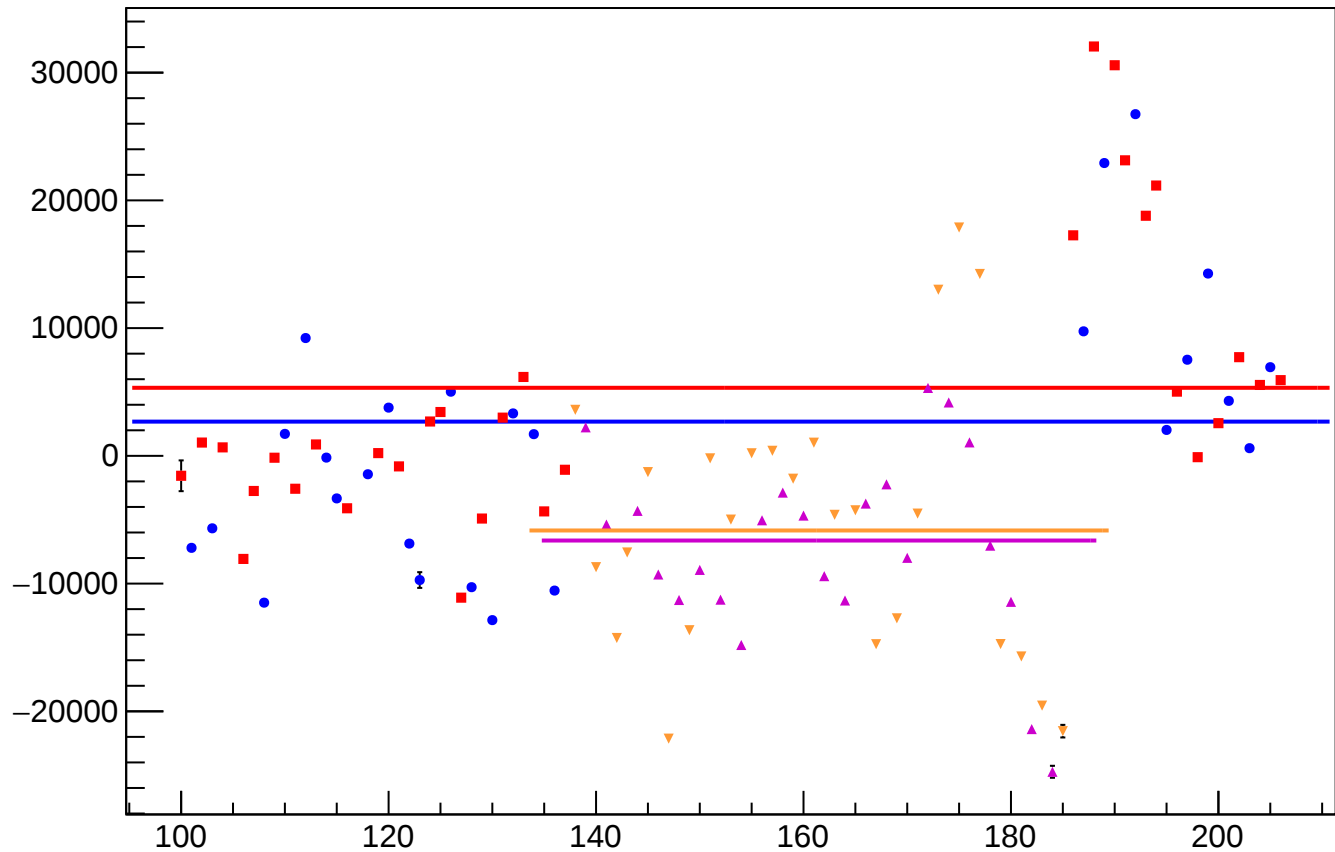
Right: 191.984+/-0.027 χ^2/NDF : 3502921.0/56

In: 207.483+/-0.028 χ^2/NDF :3045189.2/48

Out: 212.815+/-0.027 χ^2/NDF :3867174.2/55

All: 210.204+/-0.019 χ^2/NDF : 6931301.9/104

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 2679.912+/-37.306 χ^2/NDF : 77967.2/25

Left Out: -5841.615+/-35.848 χ^2/NDF : 63397.3/24

Right Out: 5327.795+/-34.404 χ^2/NDF : 101442.6/30

Left In: -6628.388+/-37.160 χ^2/NDF : 21738.0/22

Left: -6220.862+/-25.800 χ^2/NDF : 85367.5/47

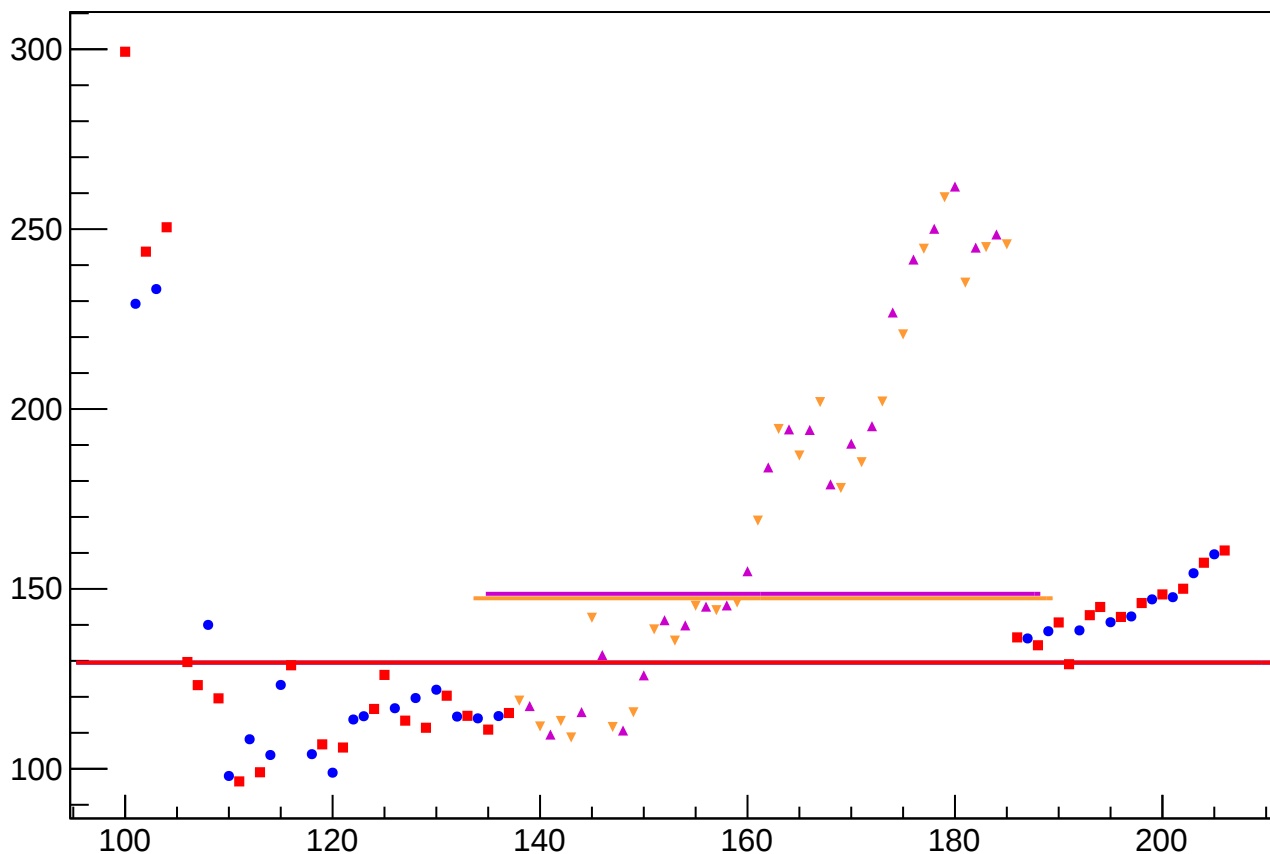
Right: 4110.857+/-25.291 χ^2/NDF : 182132.3/56

In: -1992.491+/-26.328 χ^2/NDF : 130955.3/48

Out: -27.407+/-24.822 χ^2/NDF : 215375.7/55

All: -952.147+/-18.061 χ^2/NDF : 349280.4/100

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.519+/-0.026 χ^2/NDF : 924292.3/25

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 129.545+/-0.024 χ^2/NDF : 1070549.9/30

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

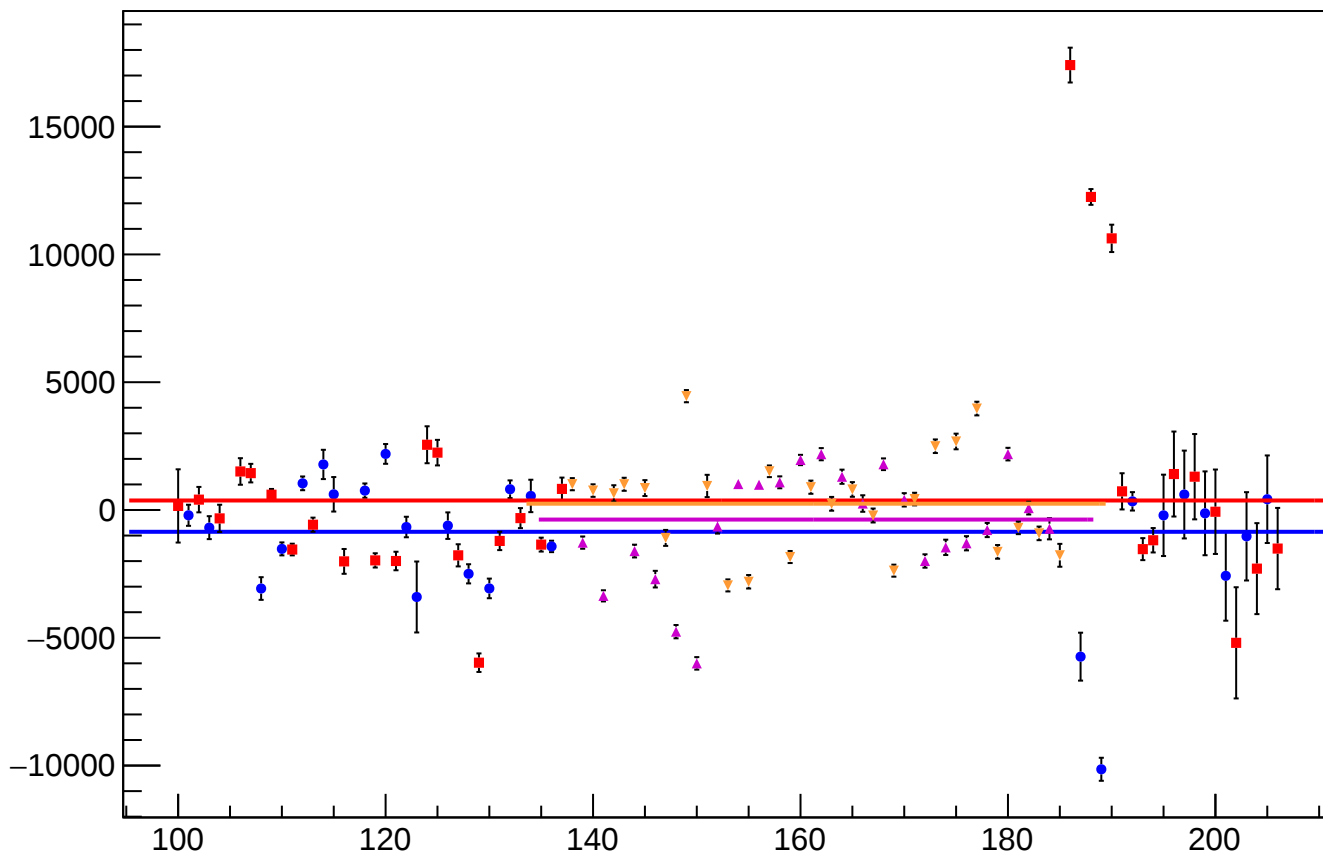
Right: 129.533+/-0.018 χ^2/NDF : 1994842.8/56

In: 139.118+/-0.019 χ^2/NDF : 3603610.5/48

Out: 138.104+/-0.018 χ^2/NDF : 3845814.2/55

All: 138.581+/-0.013 χ^2/NDF : 7450996.2/104

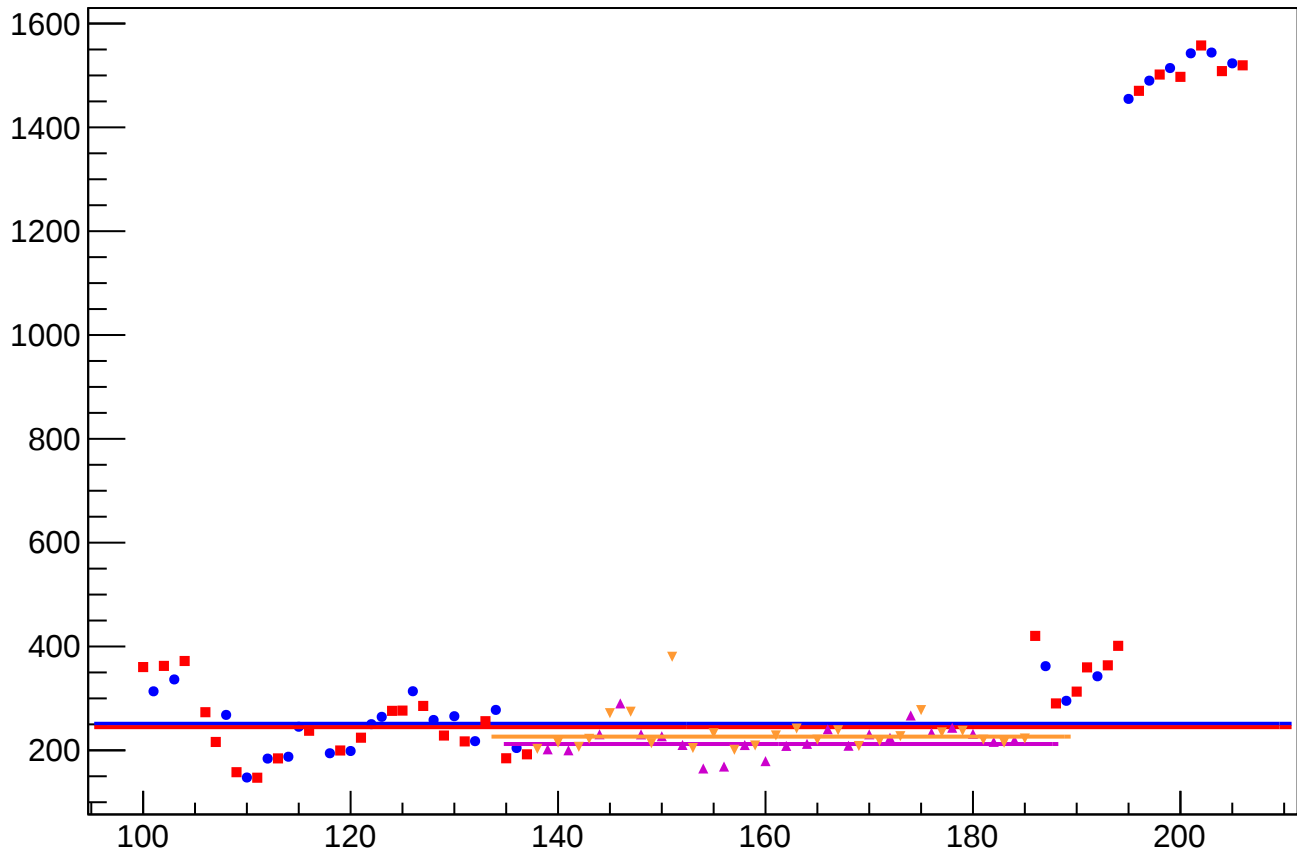
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -853.136 $\pm$ 84.221 χ^2 /NDF: 762.0/25
 Left Out: 246.120 $\pm$ 53.492 χ^2 /NDF:1354.8/24
 Right Out: 371.899 $\pm$ 75.013 χ^2 /NDF: 3171.1/30
 Left In: -374.465 $\pm$ 51.892 χ^2 /NDF:1798.3/22

Left: -73.589 $\pm$ 37.246 χ^2 /NDF: 3222.4/47
 Right: -170.009 $\pm$ 56.016 χ^2 /NDF: 4051.1/56
 In: -506.180 $\pm$ 44.180 χ^2 /NDF:2583.7/48
 Out: 288.520 $\pm$ 43.552 χ^2 /NDF:4527.8/55
 All: -103.149 $\pm$ 31.016 χ^2 /NDF: 7275.5/104

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 251.141+/-0.060 χ^2/NDF : 7716364.2/25

Left Out: 226.376+/-0.038 χ^2/NDF : 521770.1/24

Right Out: 244.584+/-0.053 χ^2/NDF : 8269172.6/30

Left In: 212.145+/-0.037 χ^2/NDF : 591698.6/22

Left: 219.044+/-0.026 χ^2/NDF : 1186390.8/47

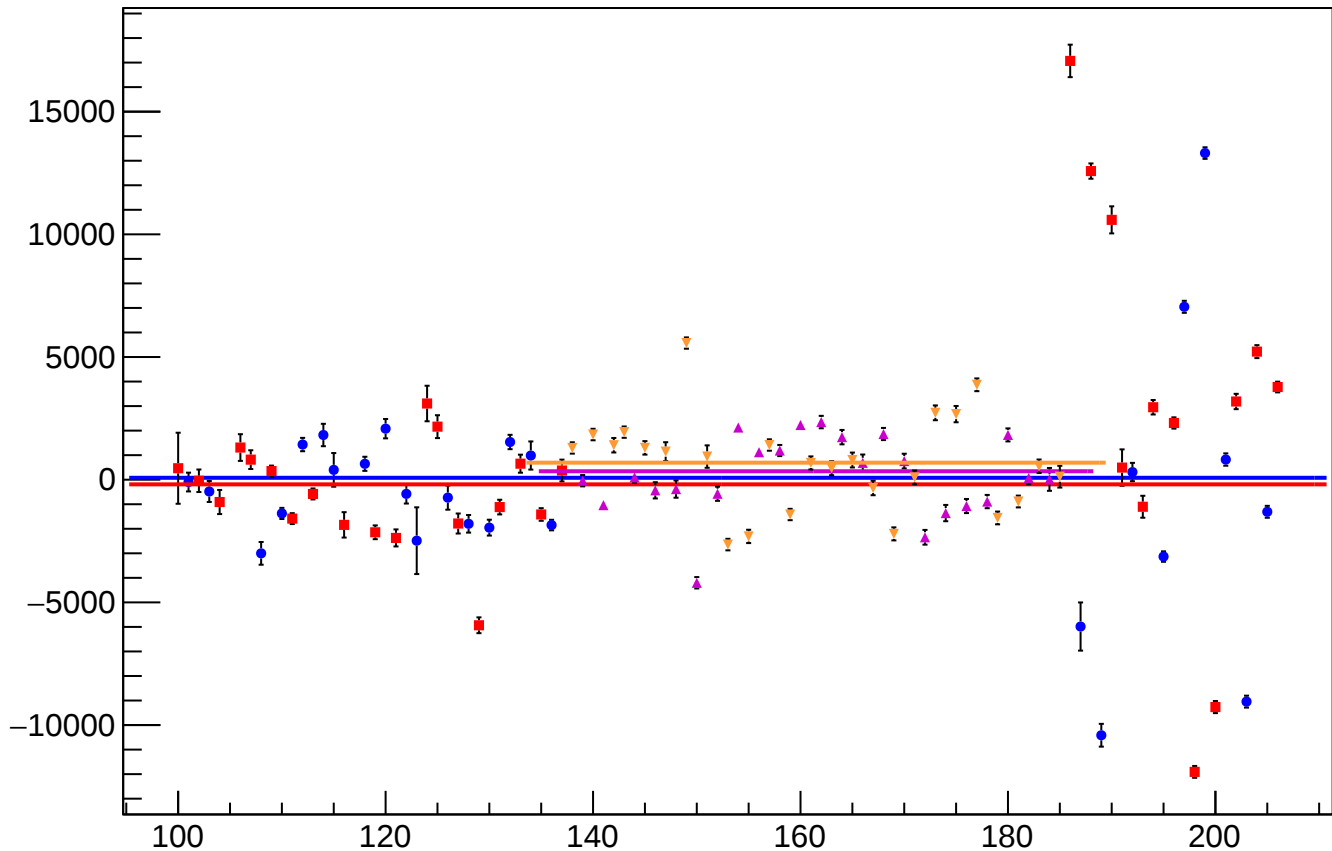
Right: 247.485+/-0.040 χ^2/NDF : 15992297.1/56

In: 222.875+/-0.031 χ^2/NDF : 8618854.4/48

Out: 232.514+/-0.031 χ^2/NDF : 8869062.6/55

All: 227.763+/-0.022 χ^2/NDF : 17536190.3/100

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 77.916 $\pm$ 62.089 χ^2/NDF : 6536.0/25

Left Out: 694.326 $\pm$ 54.246 χ^2/NDF :1422.1/24

Right Out: -189.776 $\pm$ 57.946 χ^2/NDF : 8128.4/30

Left In: 344.578 $\pm$ 52.954 χ^2/NDF :985.0/22

Left: 515.236 $\pm$ 37.893 χ^2/NDF : 2428.4/47

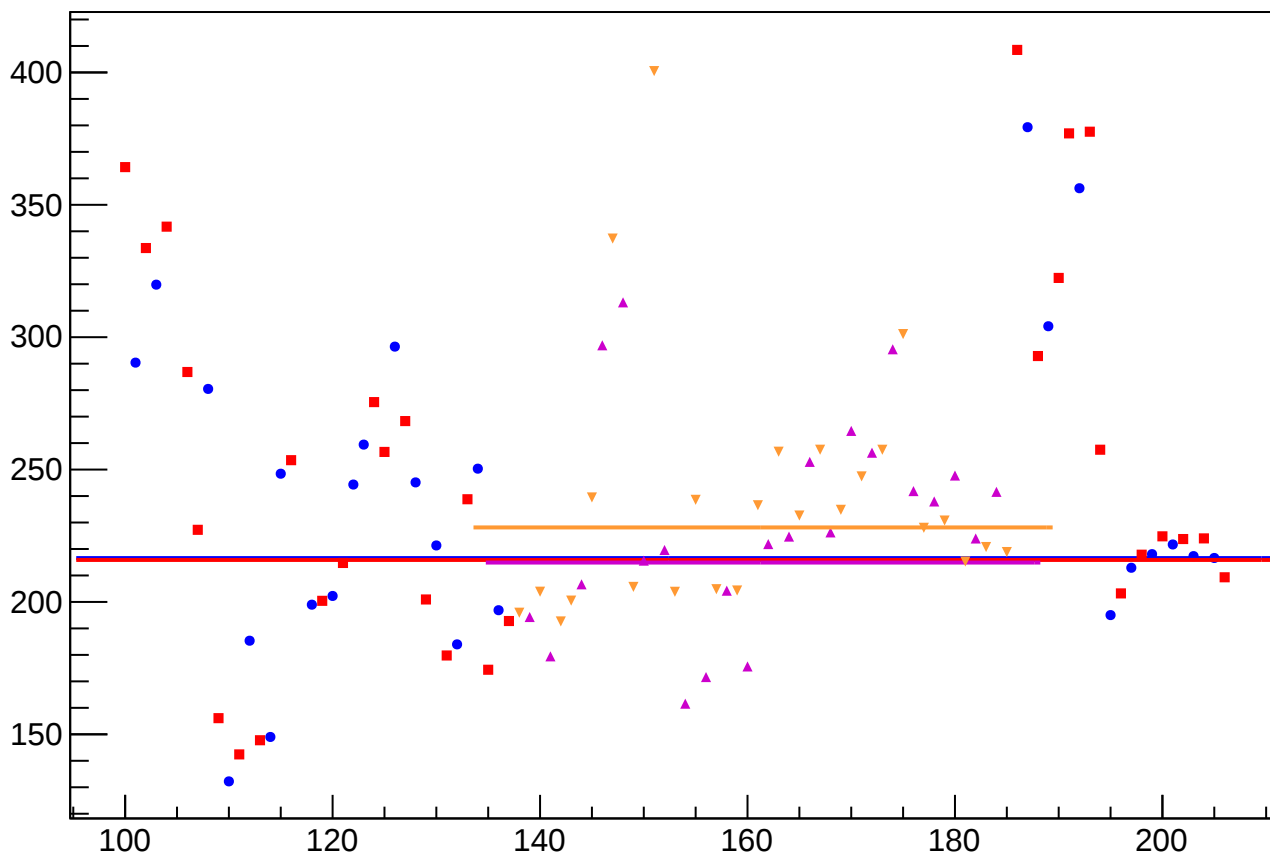
Right: -65.159 $\pm$ 42.363 χ^2/NDF : 14674.3/56

In: 232.287 $\pm$ 40.290 χ^2/NDF :7531.7/48

Out: 281.393 $\pm$ 39.601 χ^2/NDF :9674.5/55

All: 257.264 $\pm$ 28.243 χ^2/NDF : 17207.0/104

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.560 $\pm$ 0.044 χ^2 /NDF: 1143829.6/25

Left Out: 228.144 $\pm$ 0.038 χ^2 /NDF: 828399.3/24

Right Out: 215.868 $\pm$ 0.041 χ^2 /NDF: 1821519.6/30

Left In: 214.878 $\pm$ 0.037 χ^2 /NDF: 1037509.6/22

Left: 221.351 $\pm$ 0.027 χ^2 /NDF: 1927151.4/47

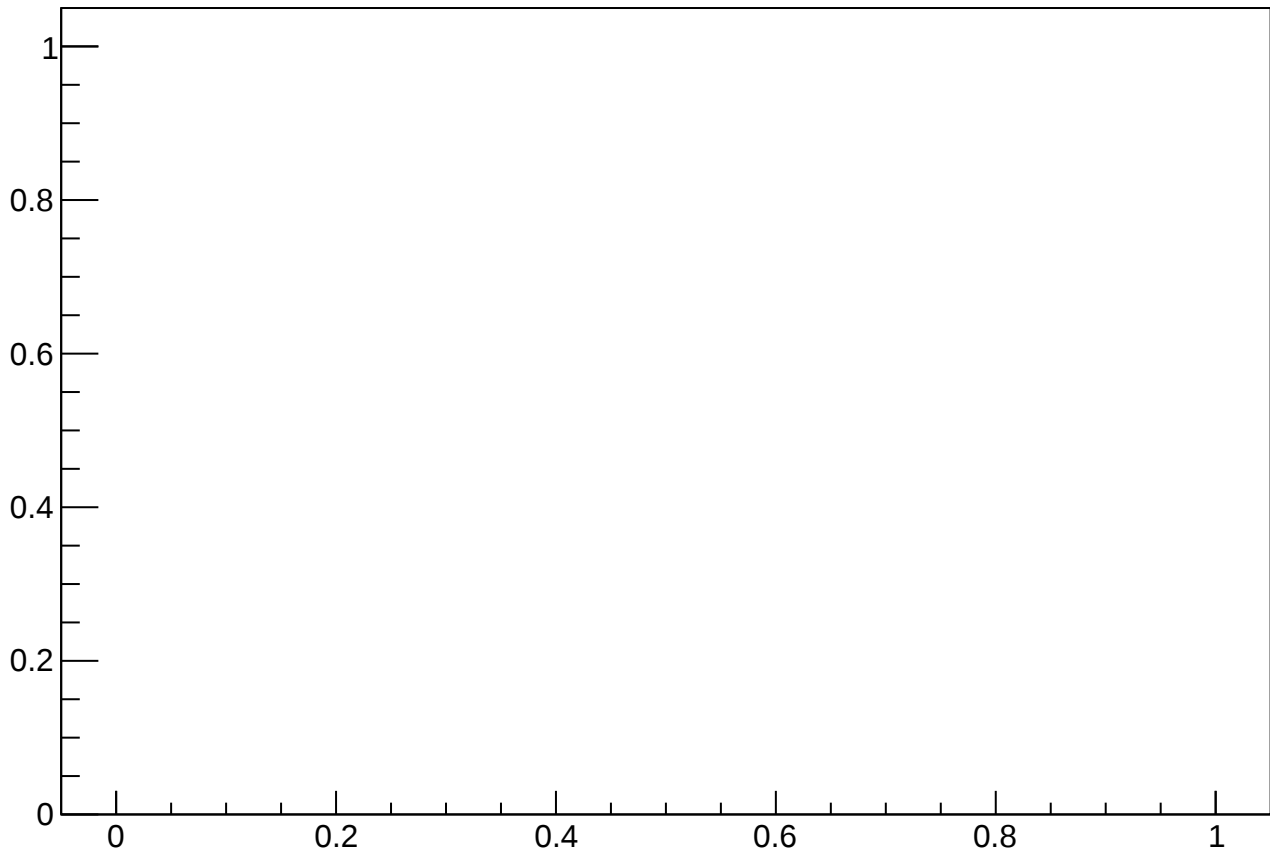
Right: 216.190 $\pm$ 0.030 χ^2 /NDF: 2965481.7/56

In: 215.586 $\pm$ 0.028 χ^2 /NDF: 2182188.3/48

Out: 222.410 $\pm$ 0.028 χ^2 /NDF: 2697751.9/55

All: 219.057 $\pm$ 0.020 χ^2 /NDF: 4909122.6/104

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

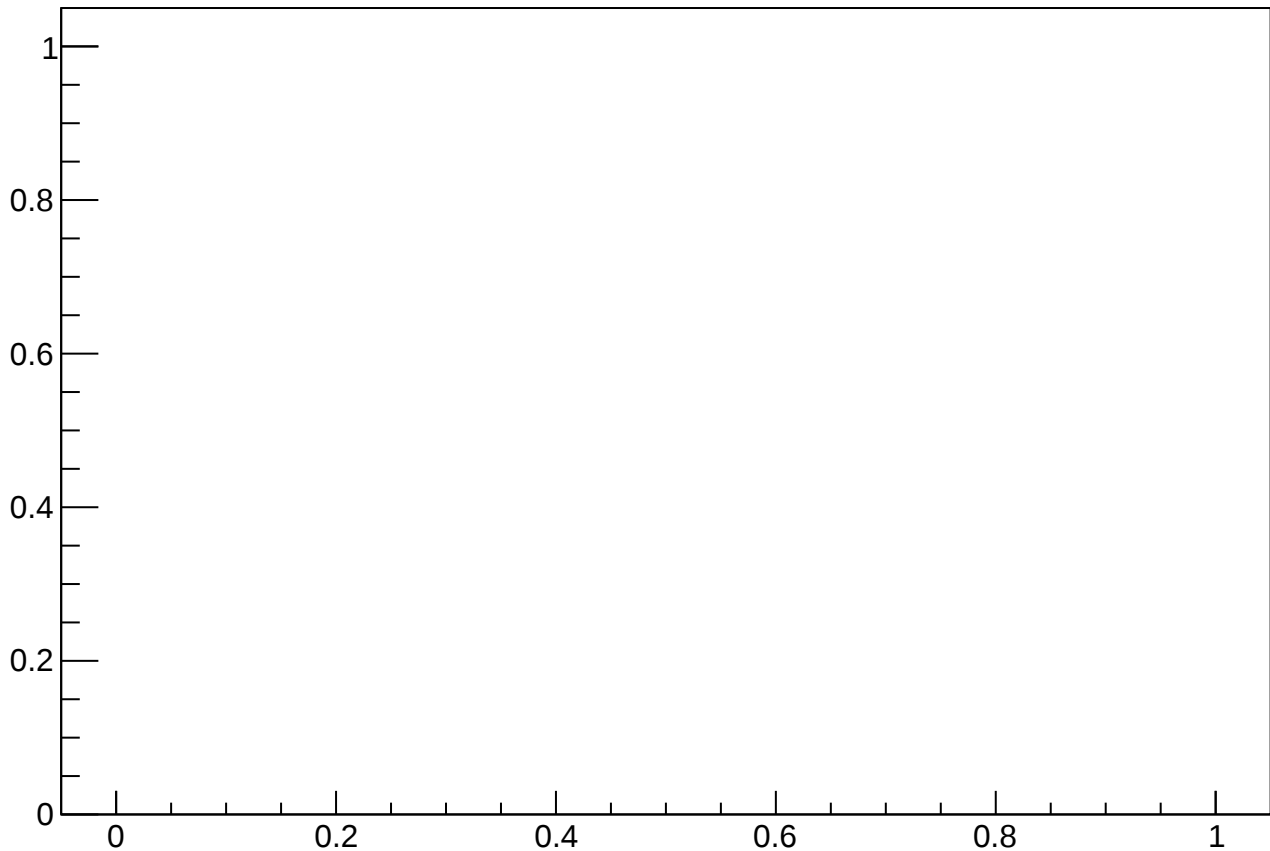
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

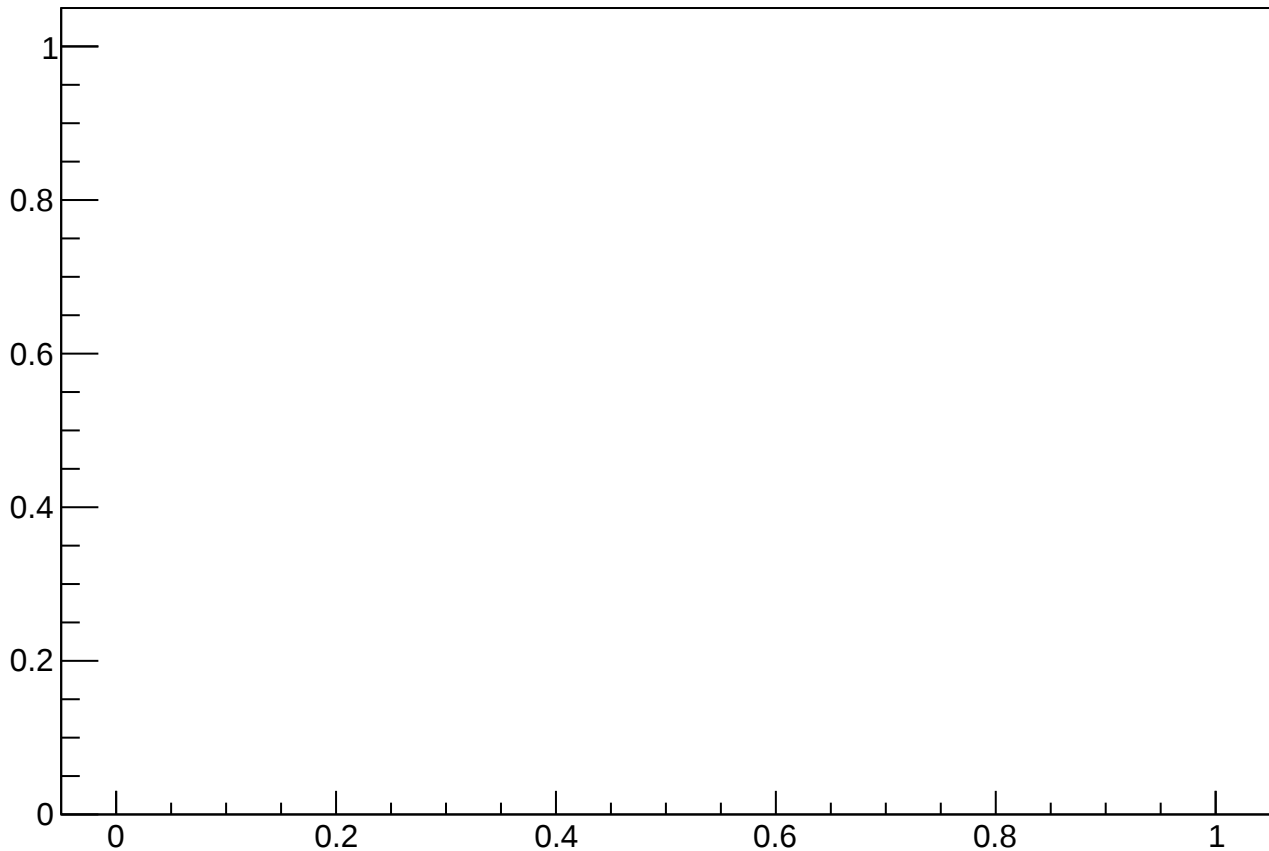
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

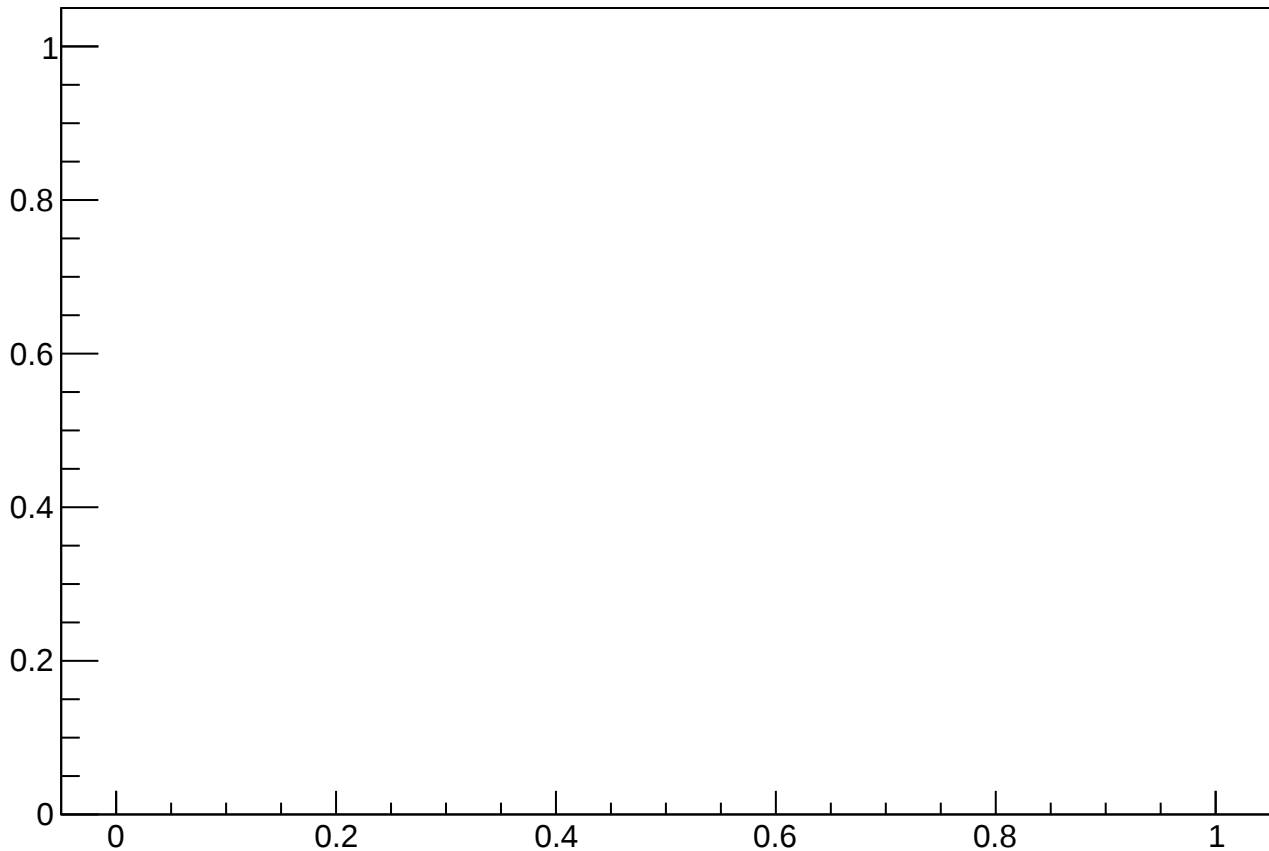
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

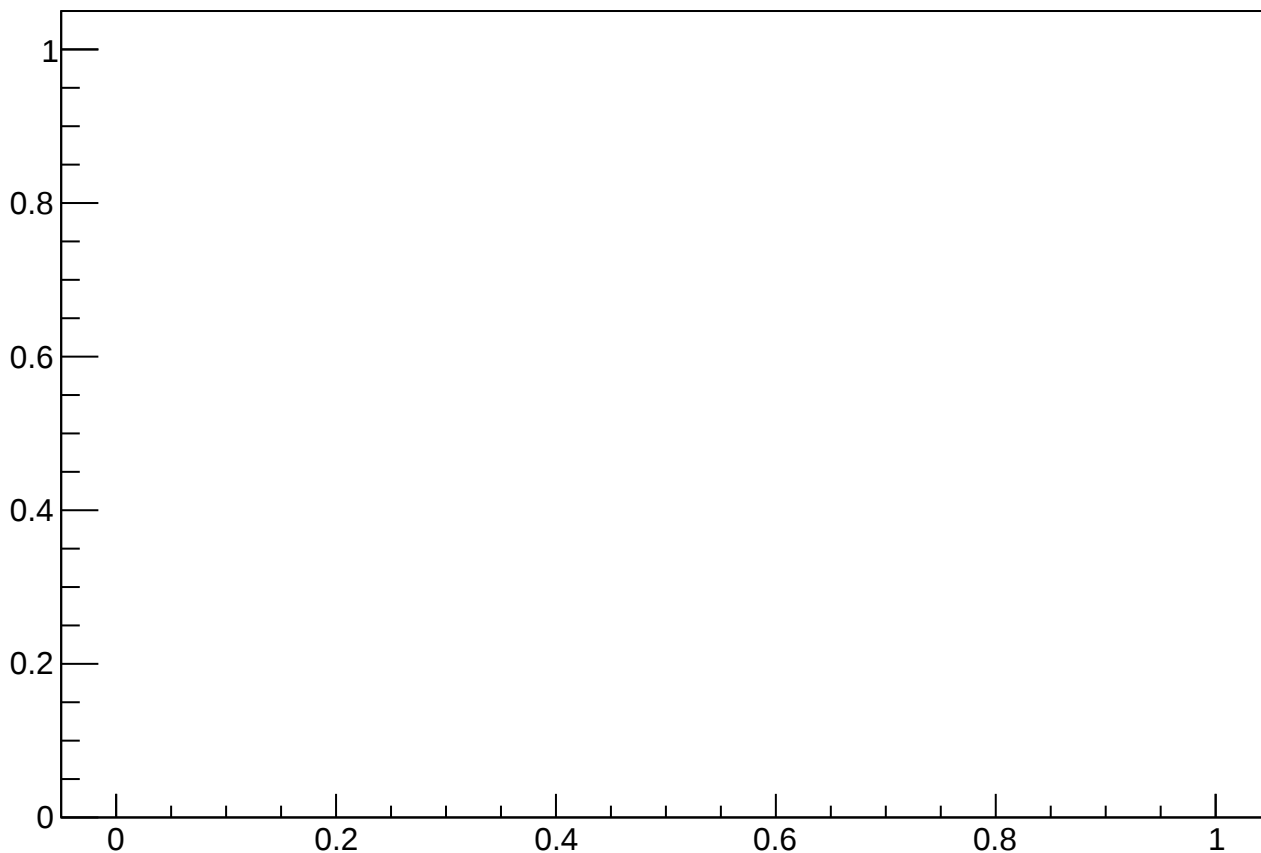
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

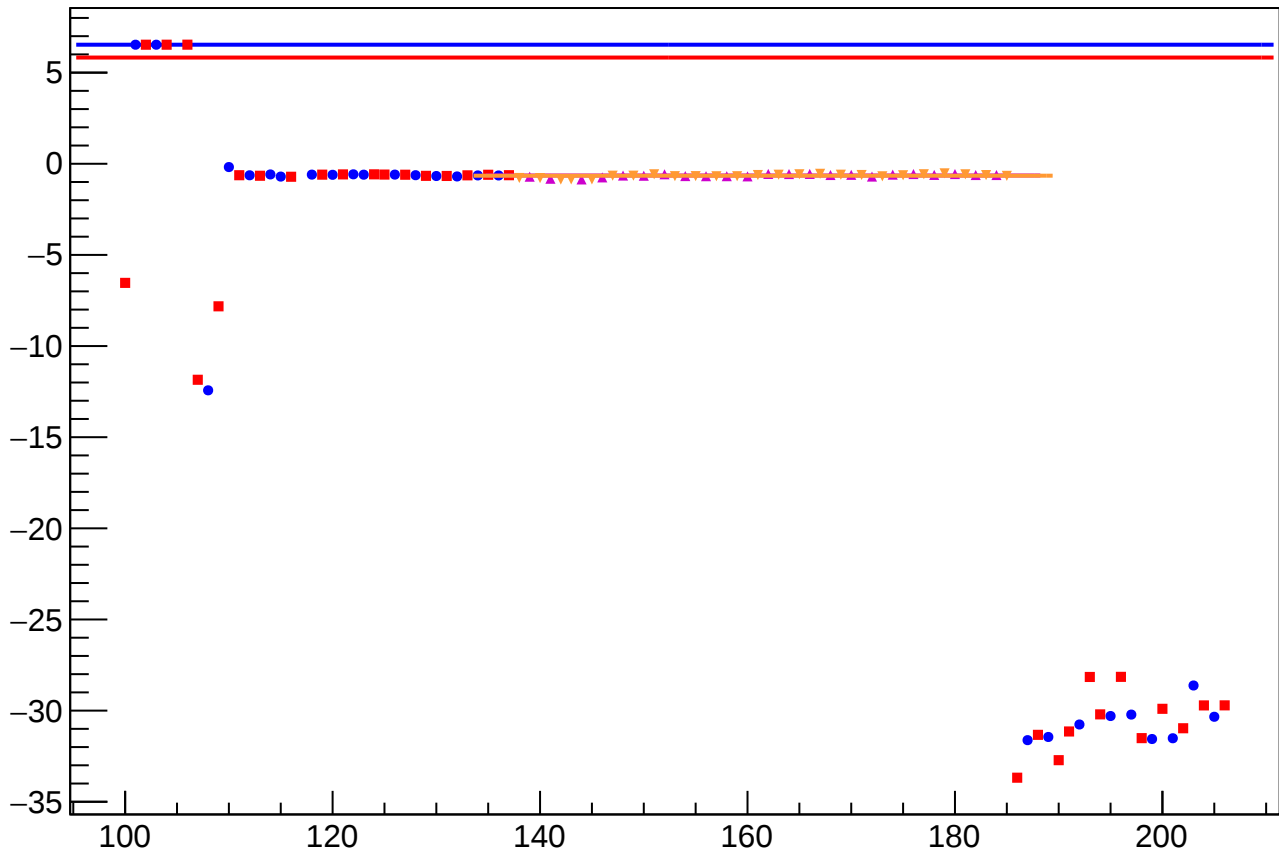
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 128036096043.8/25

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962464842936.0/30

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

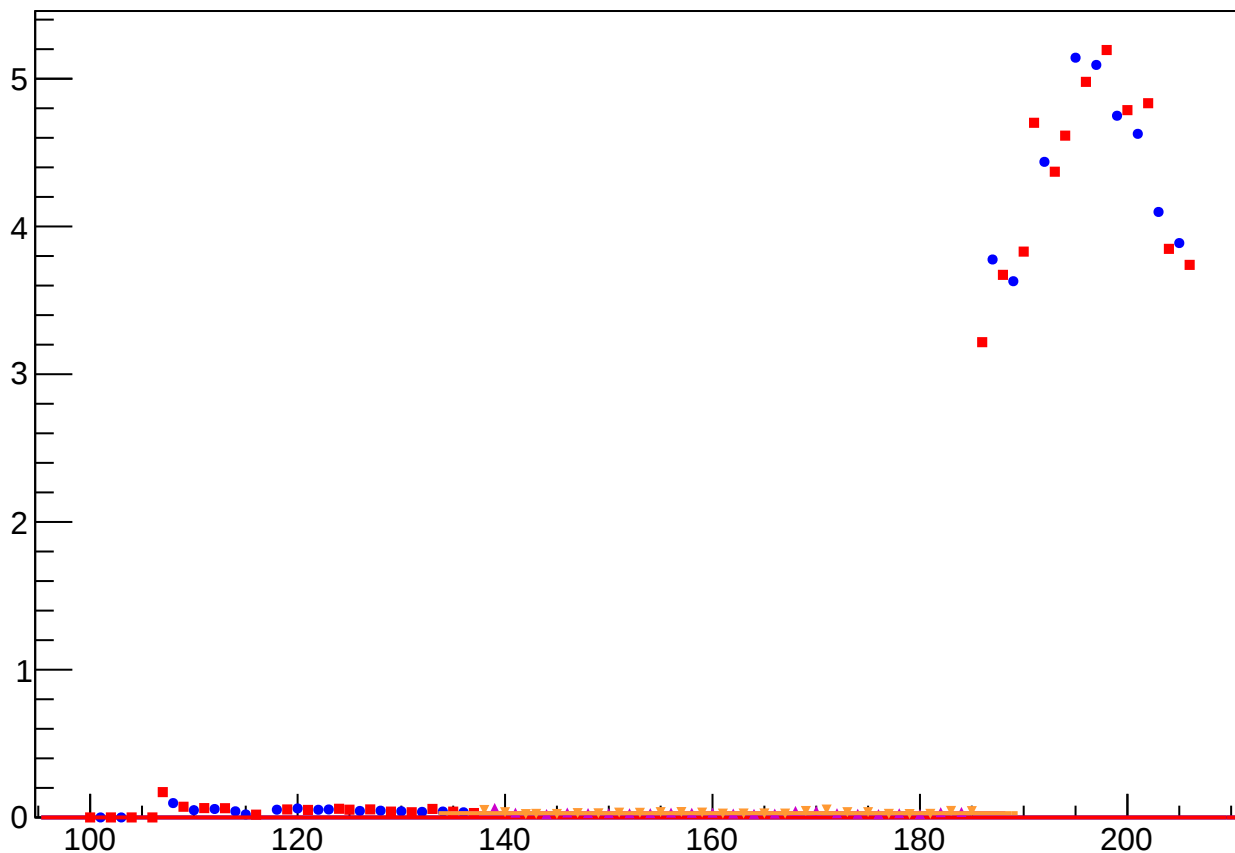
Right: 6.155+/-0.000 χ^2/NDF : 776094465363794.5/47

In: 6.530+/-0.000 χ^2/NDF : 962154671239.8/48

Out: 5.826+/-0.000 χ^2/NDF : 756673481721355.5/47

All: 6.153+/-0.000 χ^2/NDF : 77762789722120.0/94

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 21129244.1/25

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24905472.9/30

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

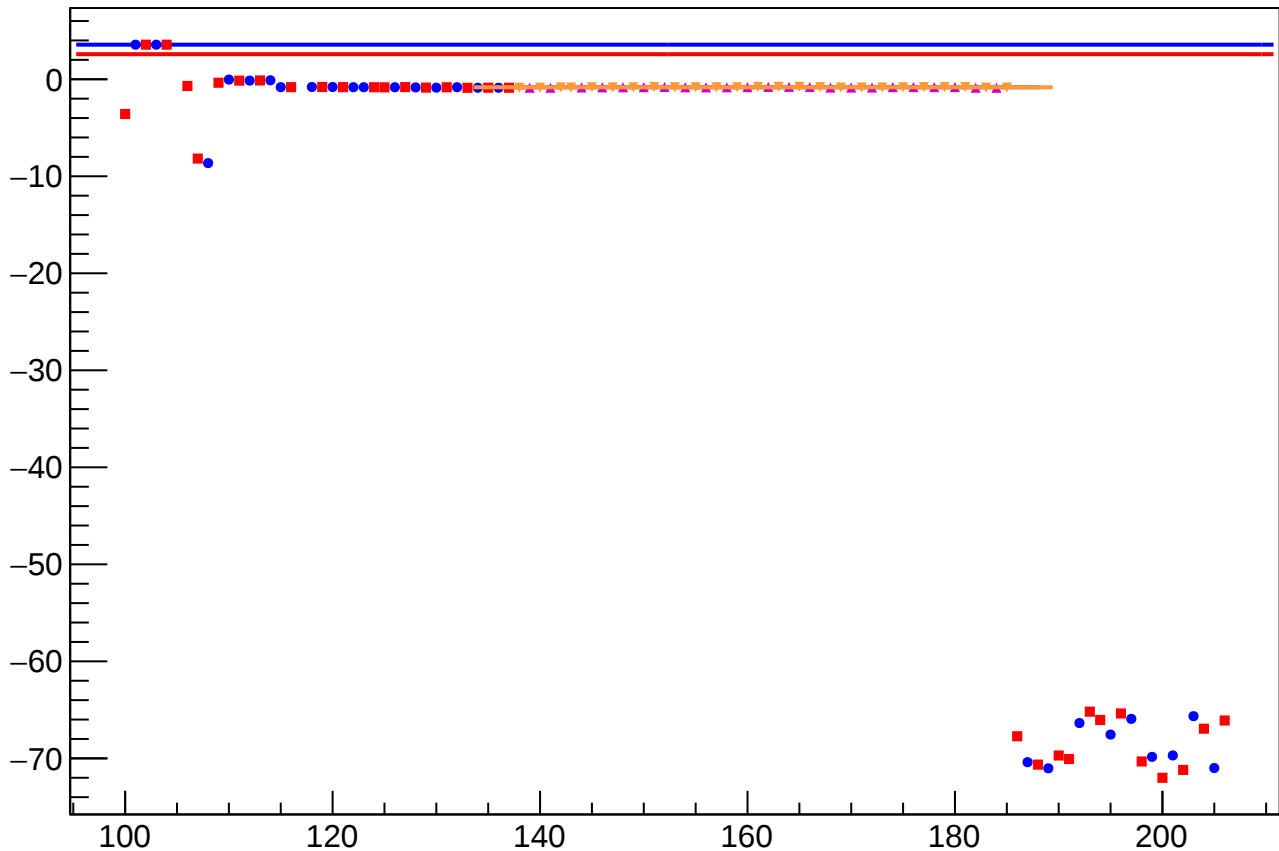
Right: 0.000+/-0.000 χ^2/NDF : 46034964.5/56

In: 0.000+/-0.000 χ^2/NDF :49307035.3/48

Out: 0.000+/-0.000 χ^2/NDF :54873497.2/55

All: 0.000+/-0.000 χ^2/NDF : 104180958.0/104

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 502805309674.3/25

Left Out: -0.827+/-0.000 χ^2/NDF : 170052639.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253530529791773.5/30

Left In: -0.827+/-0.000 χ^2/NDF : 174130375.4/22

Left: -0.827+/-0.000 χ^2/NDF : 344237775.5/47

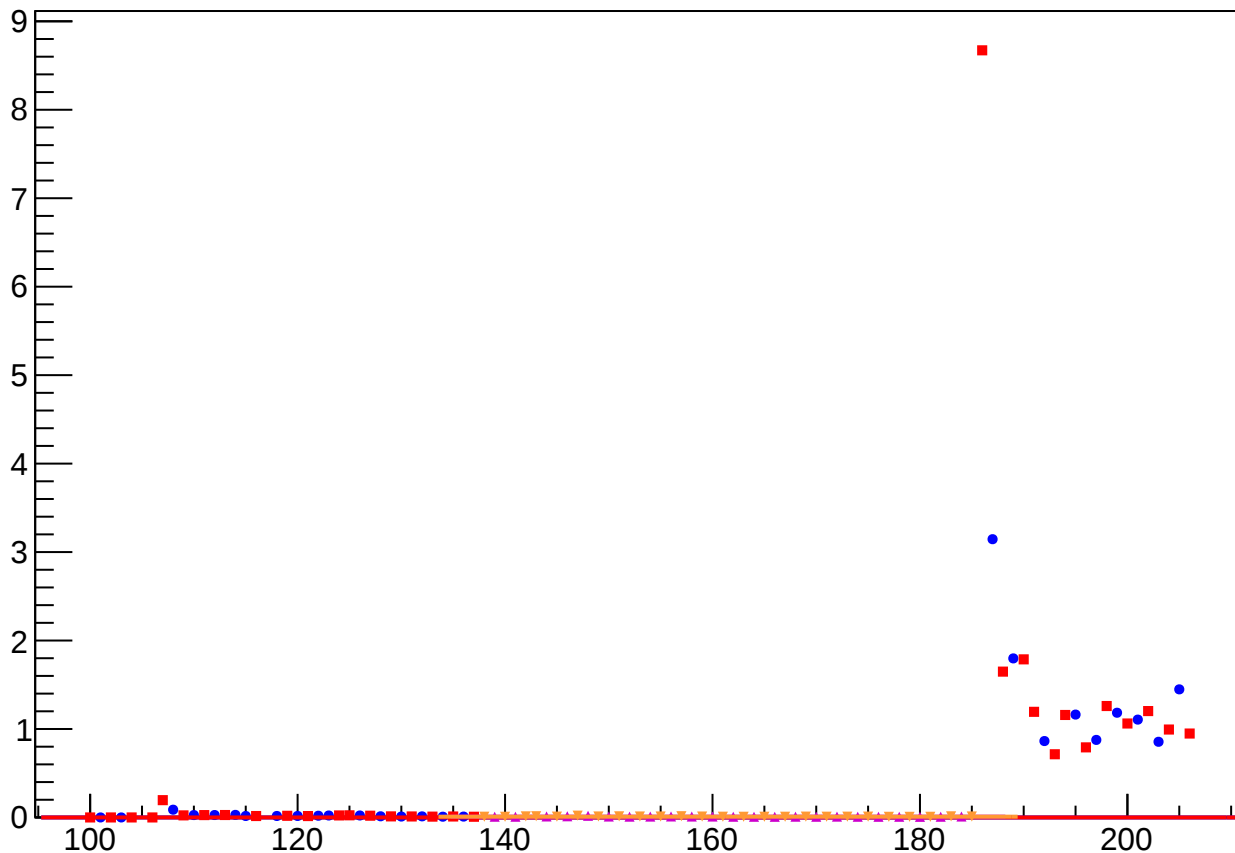
Right: 3.040+/-0.000 χ^2/NDF : 1382304487837242.1

In: 3.560+/-0.000 χ^2/NDF : 4183365508014.2/48

Out: 2.581+/-0.000 χ^2/NDF : 1255761430097836.2

All: 3.038+/-0.000 χ^2/NDF : 13880290475496

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19834526.1/25

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23048229.3/30

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

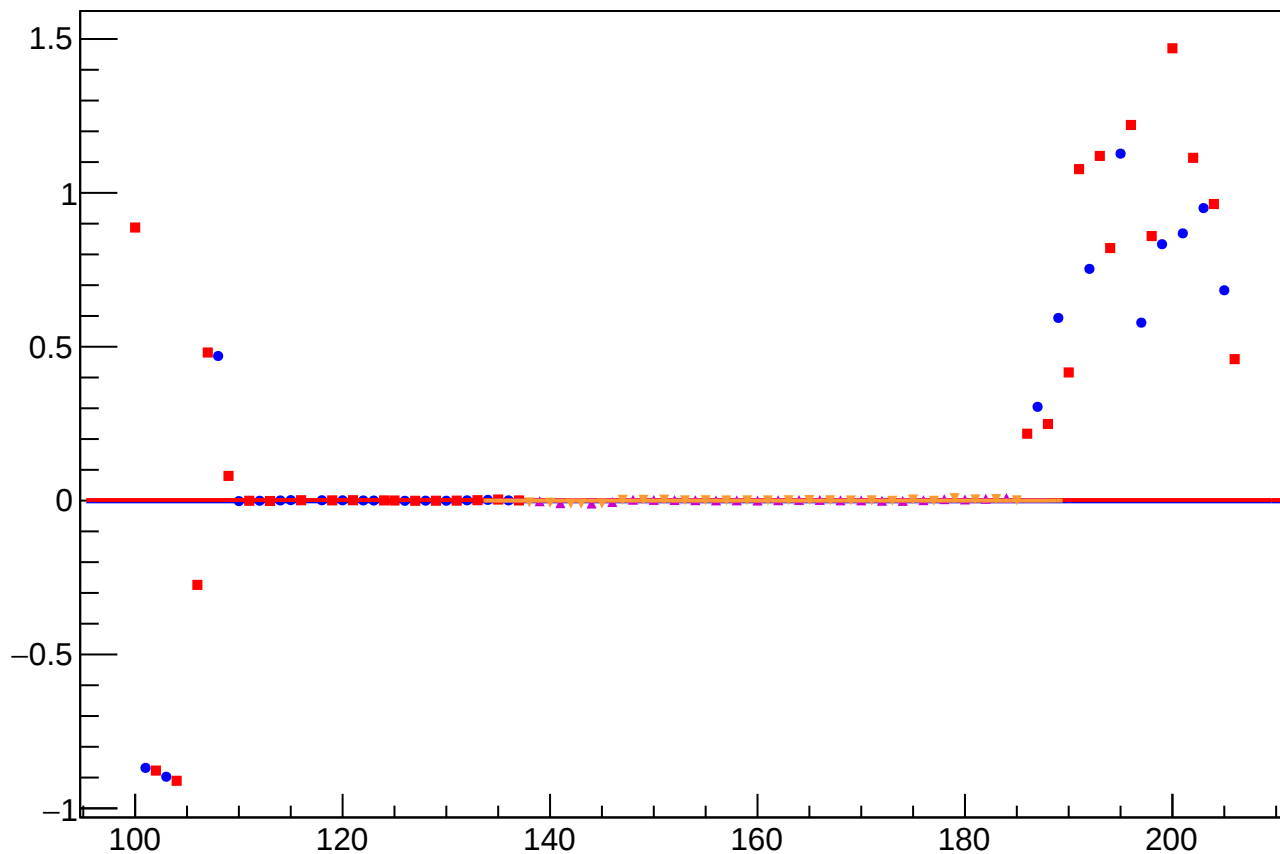
Right: 0.000+/-0.000 χ^2/NDF : 42883028.5/56

In: 0.000+/-0.000 χ^2/NDF :49631645.0/48

Out: 0.000+/-0.000 χ^2/NDF :54566331.6/55

All: 0.000+/-0.000 χ^2/NDF : 104198753.5/104

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796394005.6/25

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3043668263.6/30

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 : 12854210842.6/56

In: -0.000+/-0.000

χ^2/NDF : 9909301903.8/48

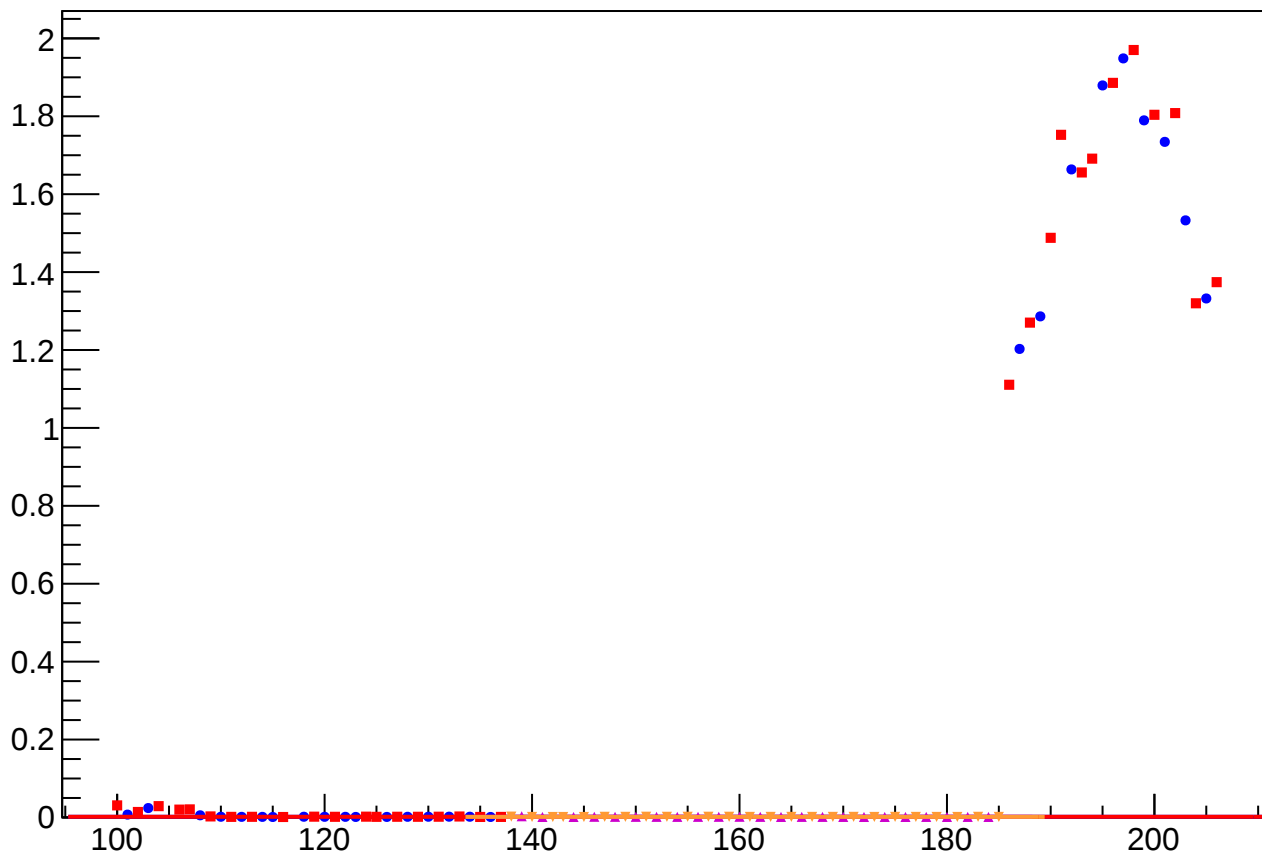
Out: 0.000+/-0.000

χ^2/NDF : 3199906318.6/55

All: 0.000+/-0.000

χ^2/NDF : 13109579796.0/1

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 14164136.4/25

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 18559890.6/30

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

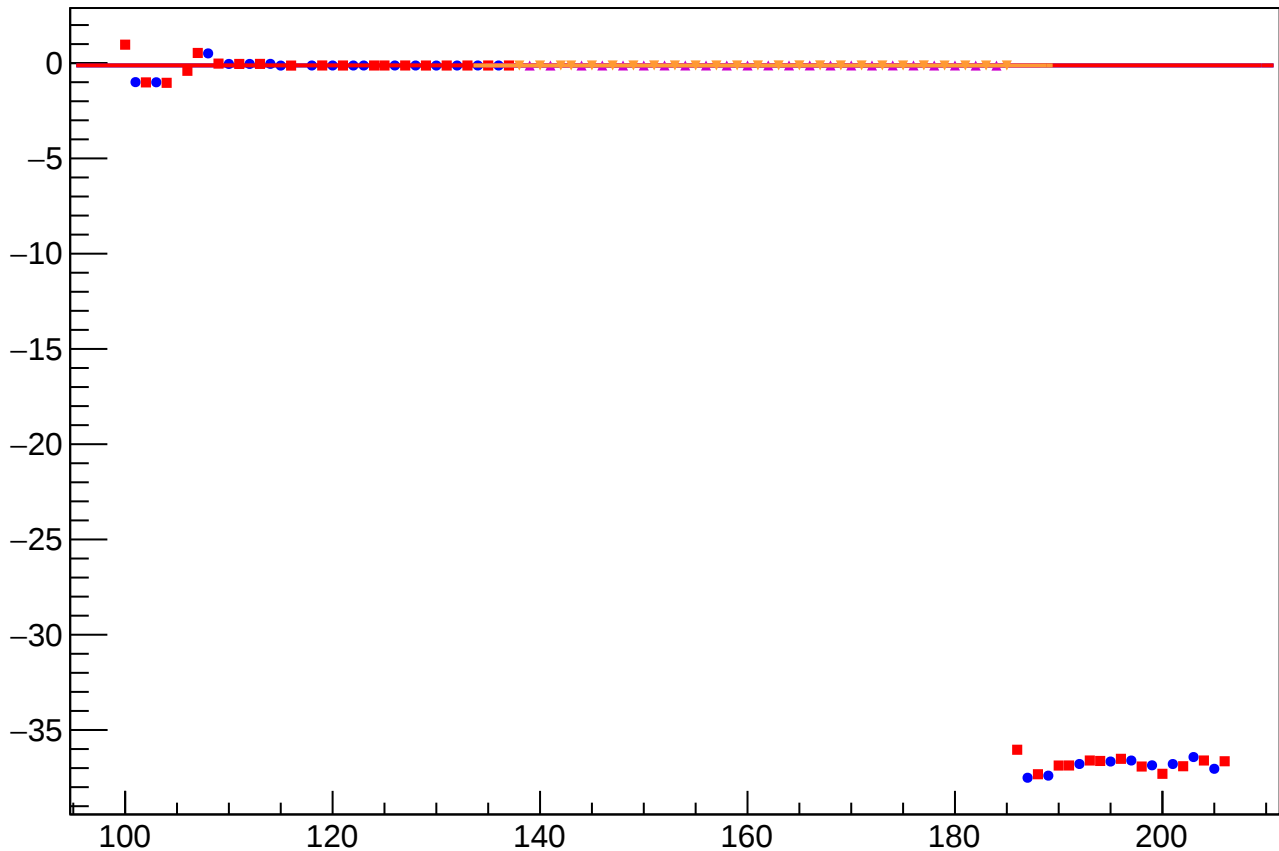
Right: 0.002+/-0.000 χ^2/NDF : 32732082.3/56

In: 0.002+/-0.000 χ^2/NDF :14876335.0/48

Out: 0.002+/-0.000 χ^2/NDF :19235629.5/55

All: 0.002+/-0.000 χ^2/NDF : 34112584.2/104

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 57370203601.4/25

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.116+/-0.000 χ^2/NDF : 68419030463.0/30

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

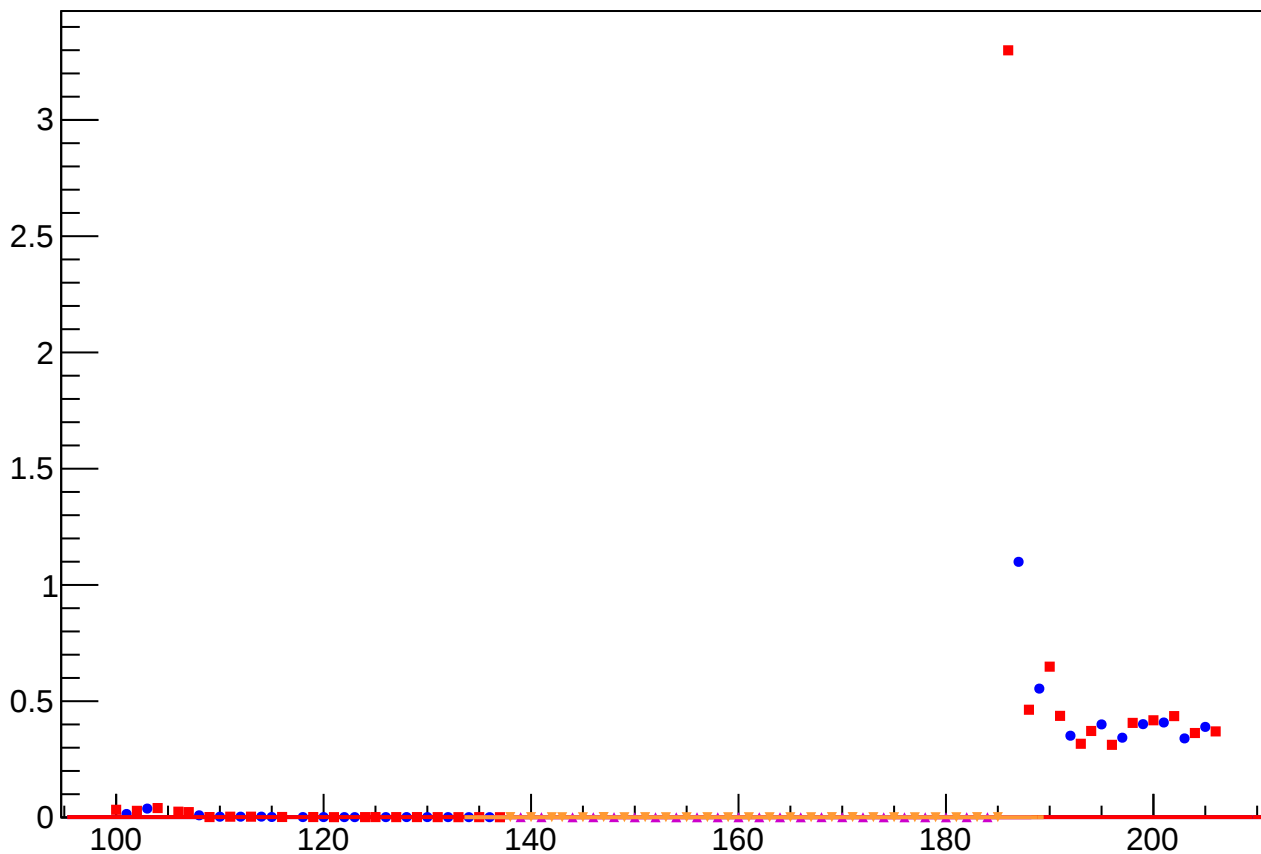
Right: -0.119+/-0.000 χ^2/NDF : 125810440685.4/56

In: -0.121+/-0.000 χ^2/NDF : 57423389103.9/48

Out: -0.121+/-0.000 χ^2/NDF : 68515734512.2/55

All: -0.121+/-0.000 χ^2/NDF : 125940003549.7

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 14595627.1/25

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 18510883.3/30

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

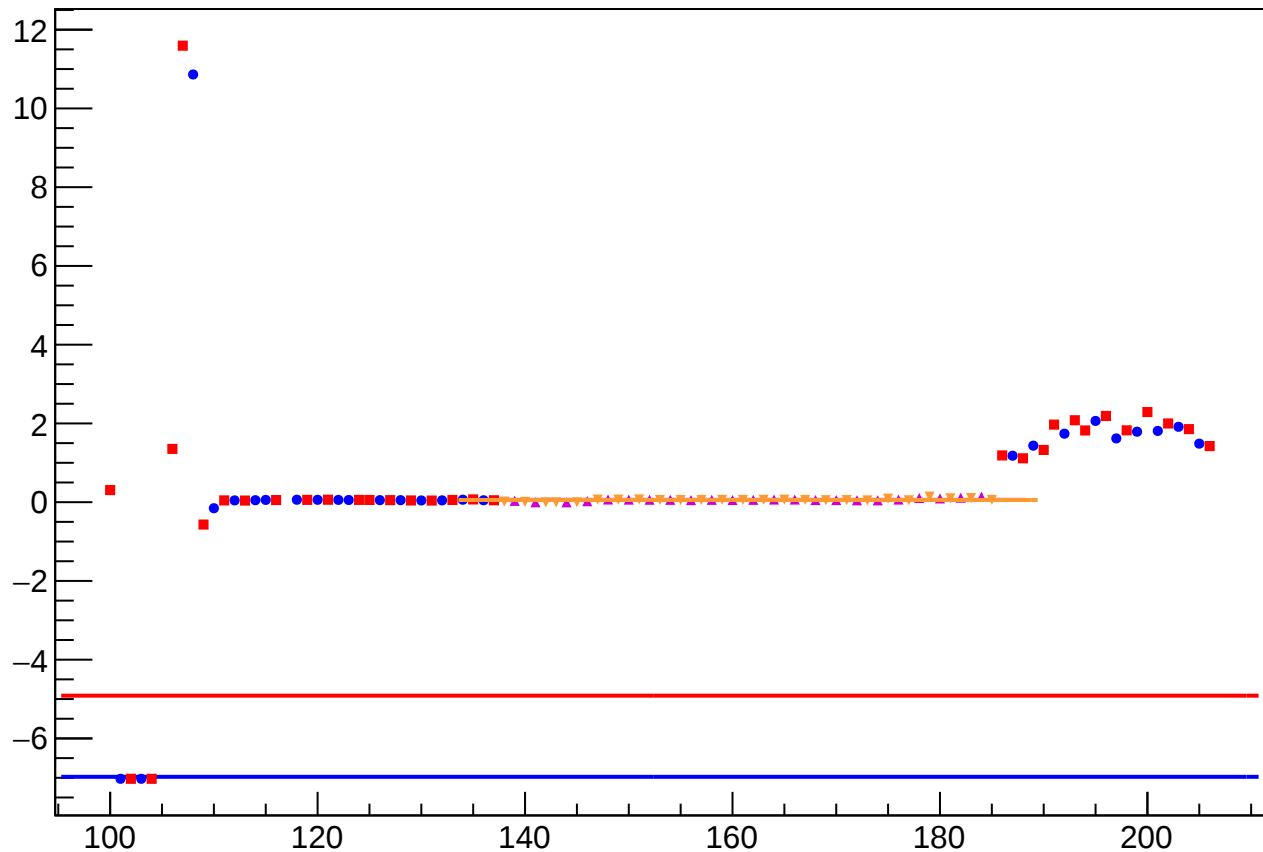
Right: 0.002+/-0.000 χ^2/NDF : 33106533.6/56

In: 0.001+/-0.000 χ^2/NDF :16717260.0/48

Out: 0.001+/-0.000 χ^2/NDF :21054038.8/55

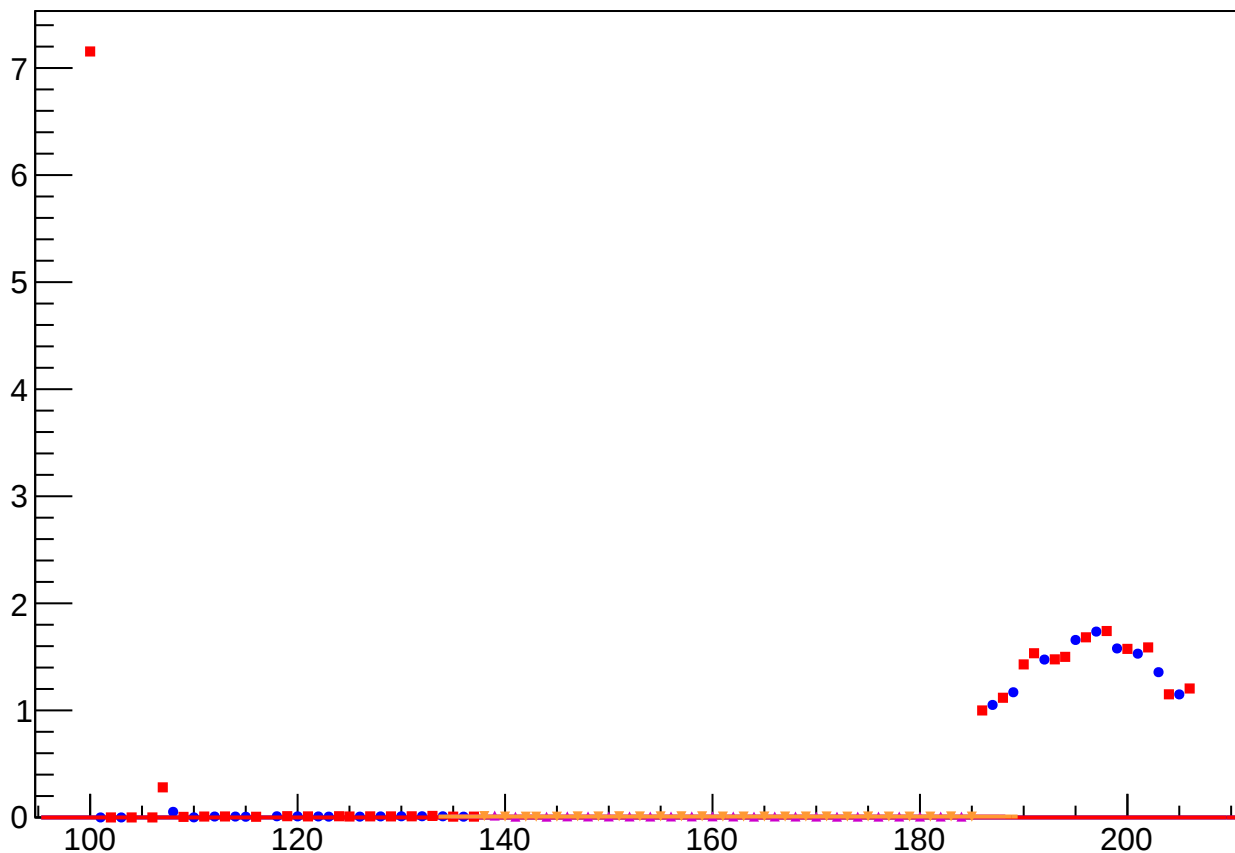
All: 0.001+/-0.000 χ^2/NDF : 37773386.2/104

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8762677947672.5/25
 Left Out: 0.055+/-0.000 χ^2/NDF : 243733184.3/24
 Right Out: -4.914+/-0.000 χ^2/NDF : 365348716267241.5/30
 Left In: 0.059+/-0.000 χ^2/NDF : 178713649.9/22
 Left: 0.057+/-0.000 χ^2/NDF : 423872259.5/47
 Right: -5.900+/-0.000 χ^2/NDF : 430303607495045.8
 In: -6.925+/-0.000 χ^2/NDF : 17605204270248.0/48
 Out: -4.879+/-0.000 χ^2/NDF : 370175402522760.0/47
 All: -5.858+/-0.000 χ^2/NDF : 4435815704728.0/100

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20491396.2/25

Left Out: 0.009+/-0.000 χ^2/NDF :513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24322559.4/30

Left In: 0.009+/-0.000 χ^2/NDF :636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

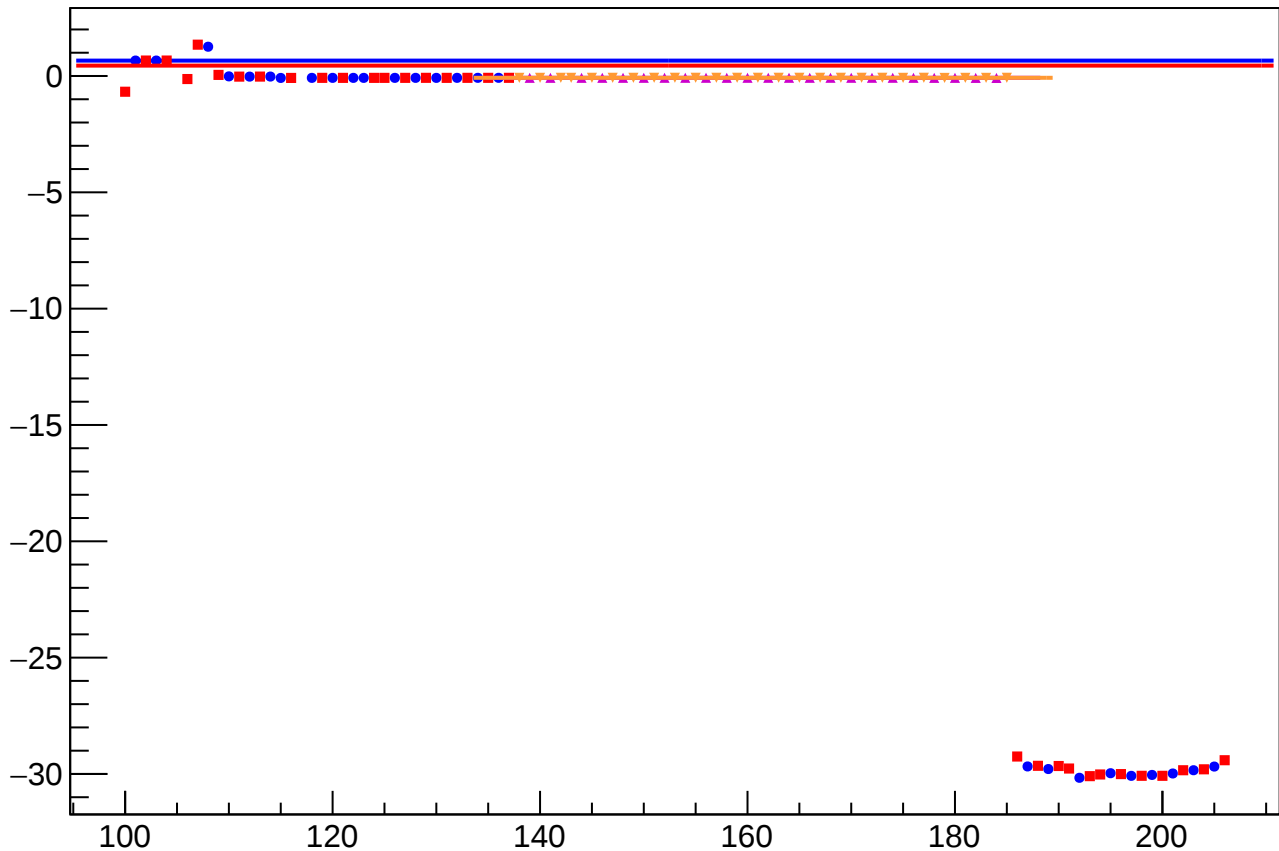
Right: 0.000+/-0.000 χ^2/NDF : 44814257.6/56

In: 0.000+/-0.000 χ^2/NDF :48127982.2/48

Out: 0.000+/-0.000 χ^2/NDF :53350313.2/55

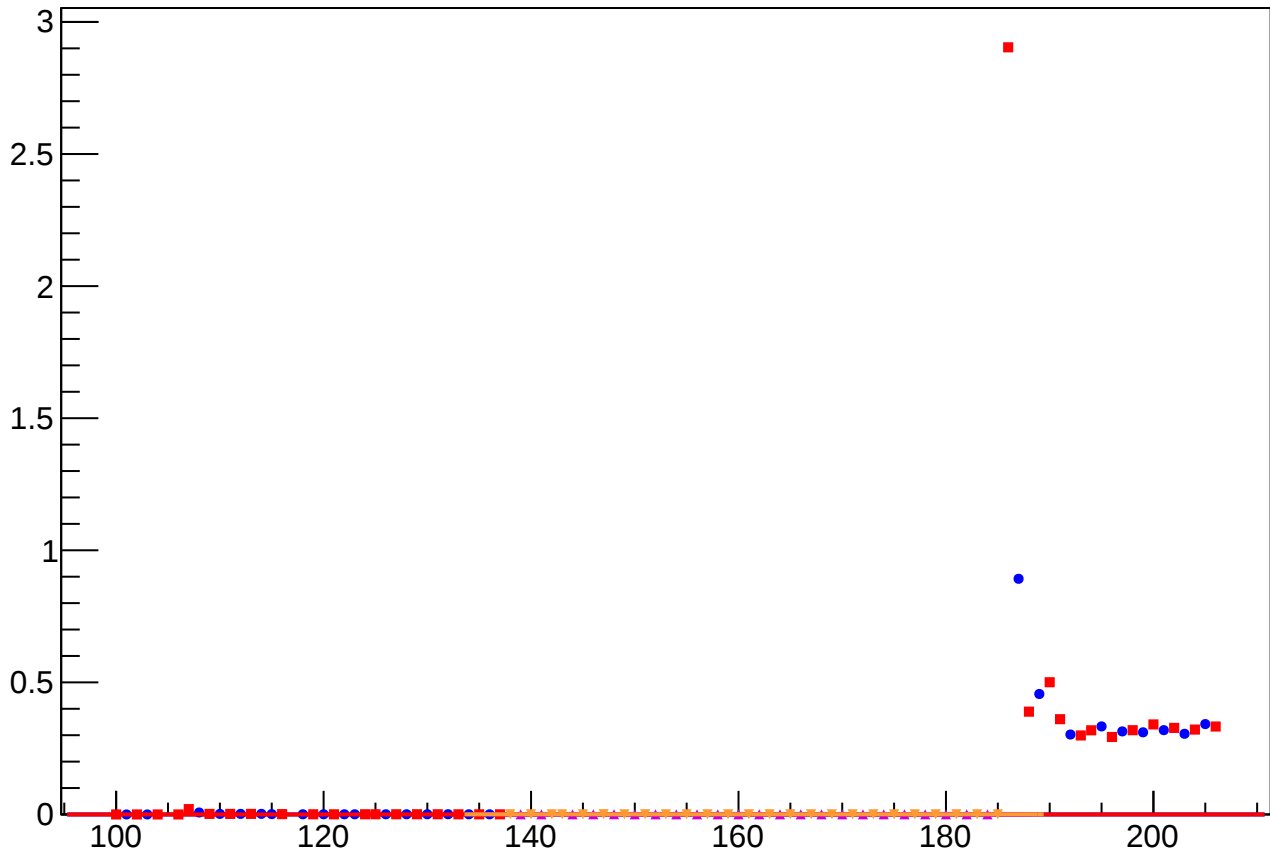
All: 0.000+/-0.000 χ^2/NDF : 101478779.5/104

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5638612811685.2/25	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 : 474046665638446.2
Right Out: 0.446+/-0.000	χ^2/NDF : 405478812104000.3/30	In: 0.647+/-0.000	χ^2/NDF : 33898553121687.5/48
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420673377603362.1/5
		All: 0.537+/-0.000	χ^2/NDF : 51609663142211

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 21955468.1/25

Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24866208.1/30

Left In: 0.001+/-0.000 χ^2/NDF :355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

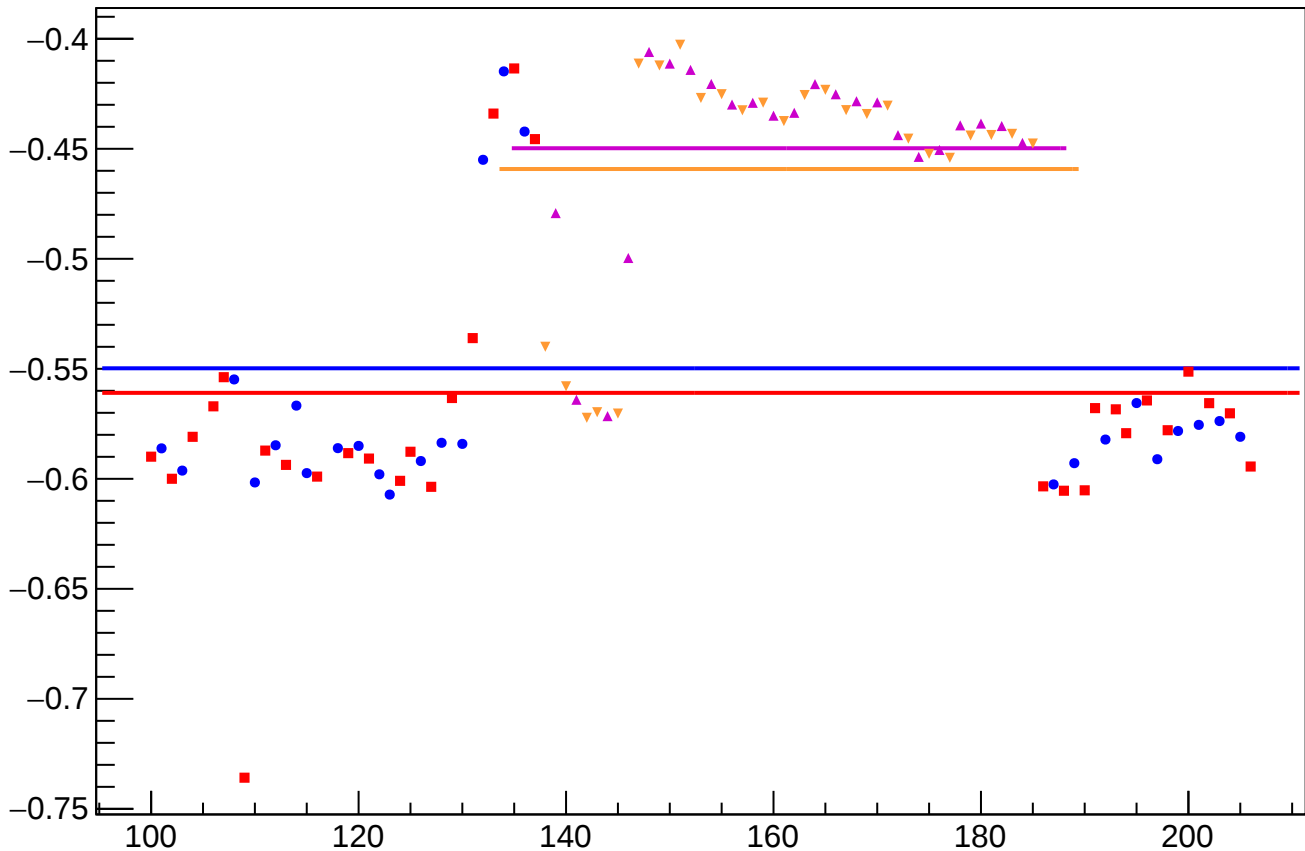
Right: 0.000+/-0.000 χ^2/NDF : 46821682.5/56

In: 0.000+/-0.000 χ^2/NDF :52933715.9/48

Out: 0.000+/-0.000 χ^2/NDF :57579875.3/55

All: 0.000+/-0.000 χ^2/NDF : 110513989.0/104

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.550+/-0.000 χ^2/NDF : 48073733.6/25

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.561+/-0.000 χ^2/NDF : 65637300.0/30

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

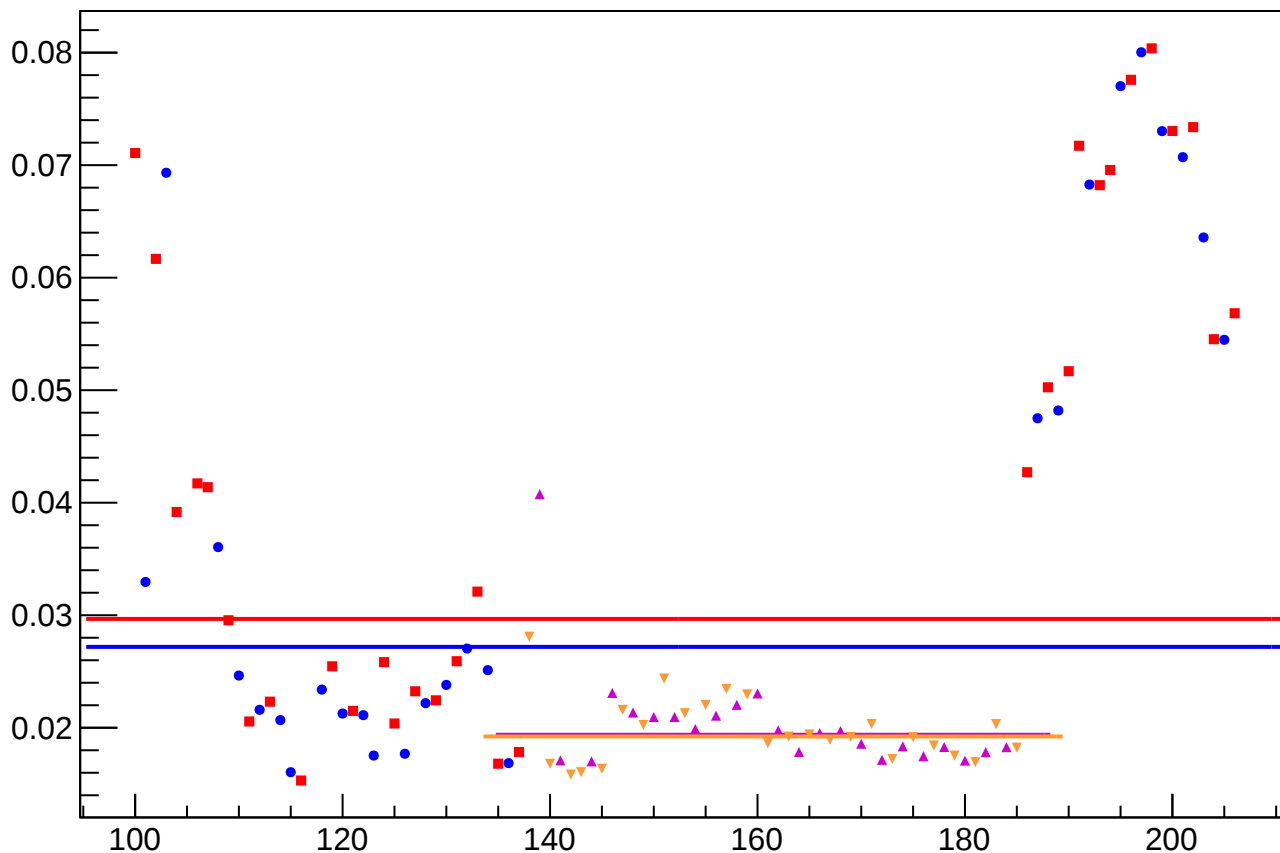
Right: -0.555+/-0.000 χ^2/NDF : 114448565.1/56

In: -0.474+/-0.000 χ^2/NDF : 214080470.6/48

Out: -0.482+/-0.000 χ^2/NDF : 274225730.5/55

All: -0.478+/-0.000 χ^2/NDF : 490165869.4/100

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 5816928.8/25

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.030+/-0.000 χ^2/NDF : 6452183.2/30

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

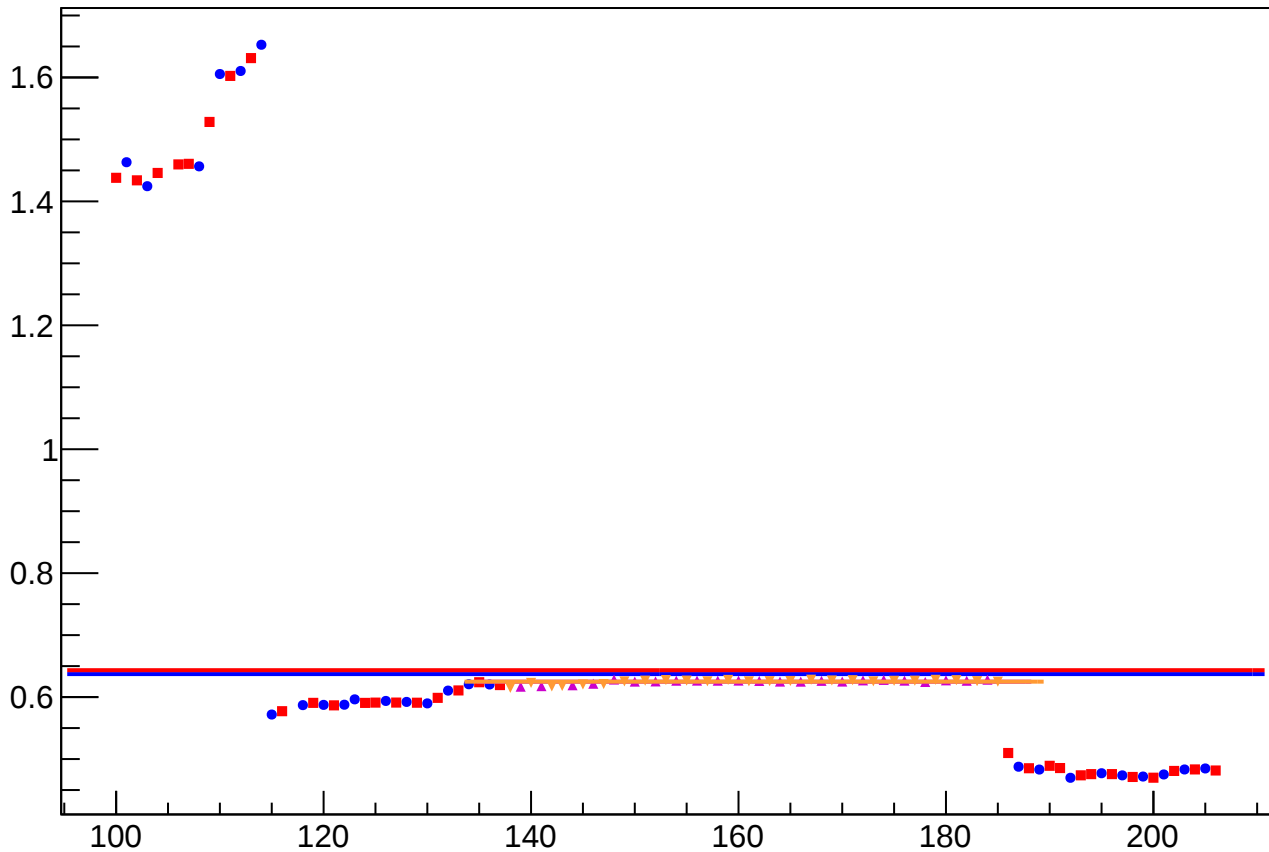
Right: 0.028+/-0.000 χ^2/NDF : 12342142.3/56

In: 0.021+/-0.000 χ^2/NDF : 7569344.1/48

Out: 0.022+/-0.000 χ^2/NDF : 8952137.3/55

All: 0.021+/-0.000 χ^2/NDF : 16527669.4/104

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.637 $\pm$ 0.000 χ^2 /NDF: 4929050703.8/25

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.643 $\pm$ 0.000 χ^2 /NDF: 6048627339.8/30

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1135039.4/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2577573.3/47

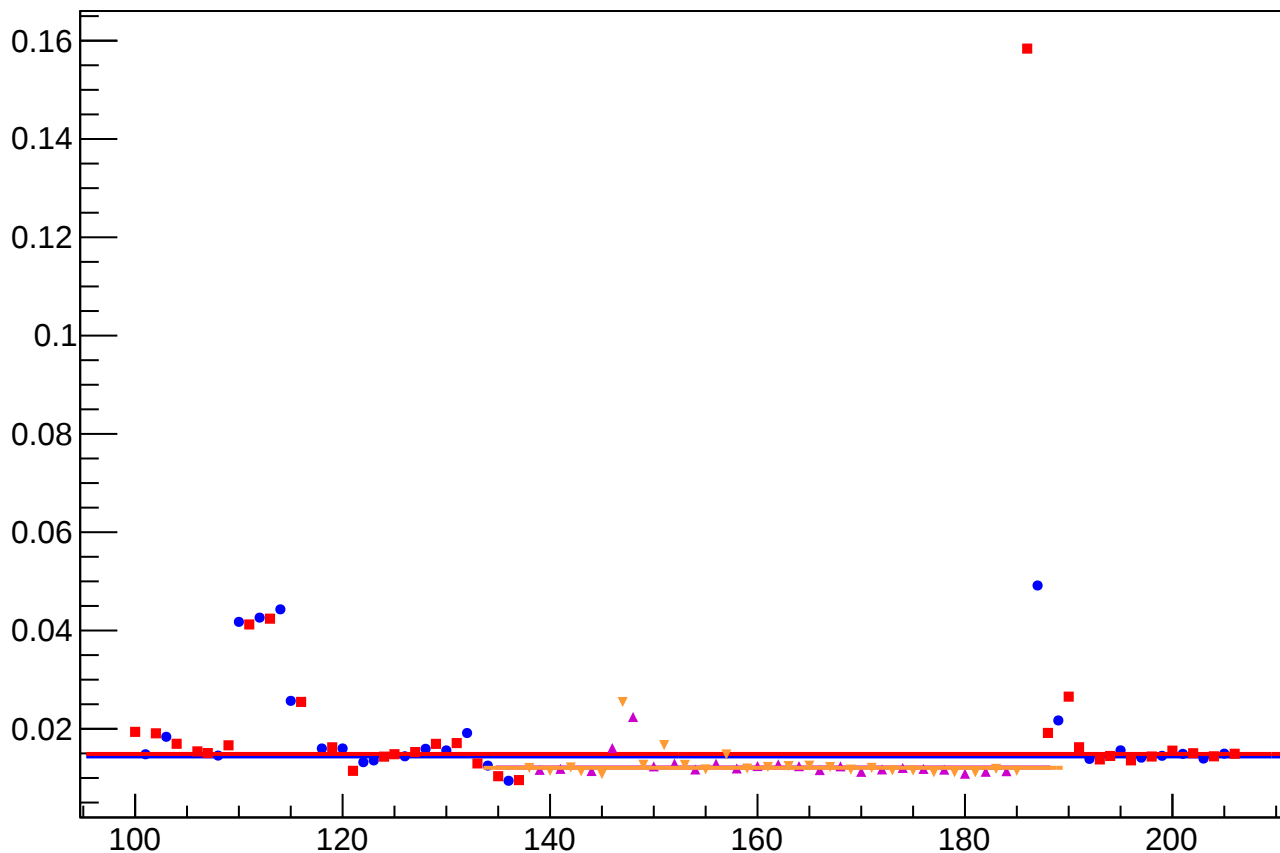
Right: 0.640 $\pm$ 0.000 χ^2 /NDF: 10978820565.3/56

In: 0.629 $\pm$ 0.000 χ^2 /NDF:4935834063.6/48

Out: 0.631 $\pm$ 0.000 χ^2 /NDF:6063804648.0/55

All: 0.630 $\pm$ 0.000 χ^2 /NDF: 11000048705.5/102

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1645470.6/25

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2073759.0/30

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

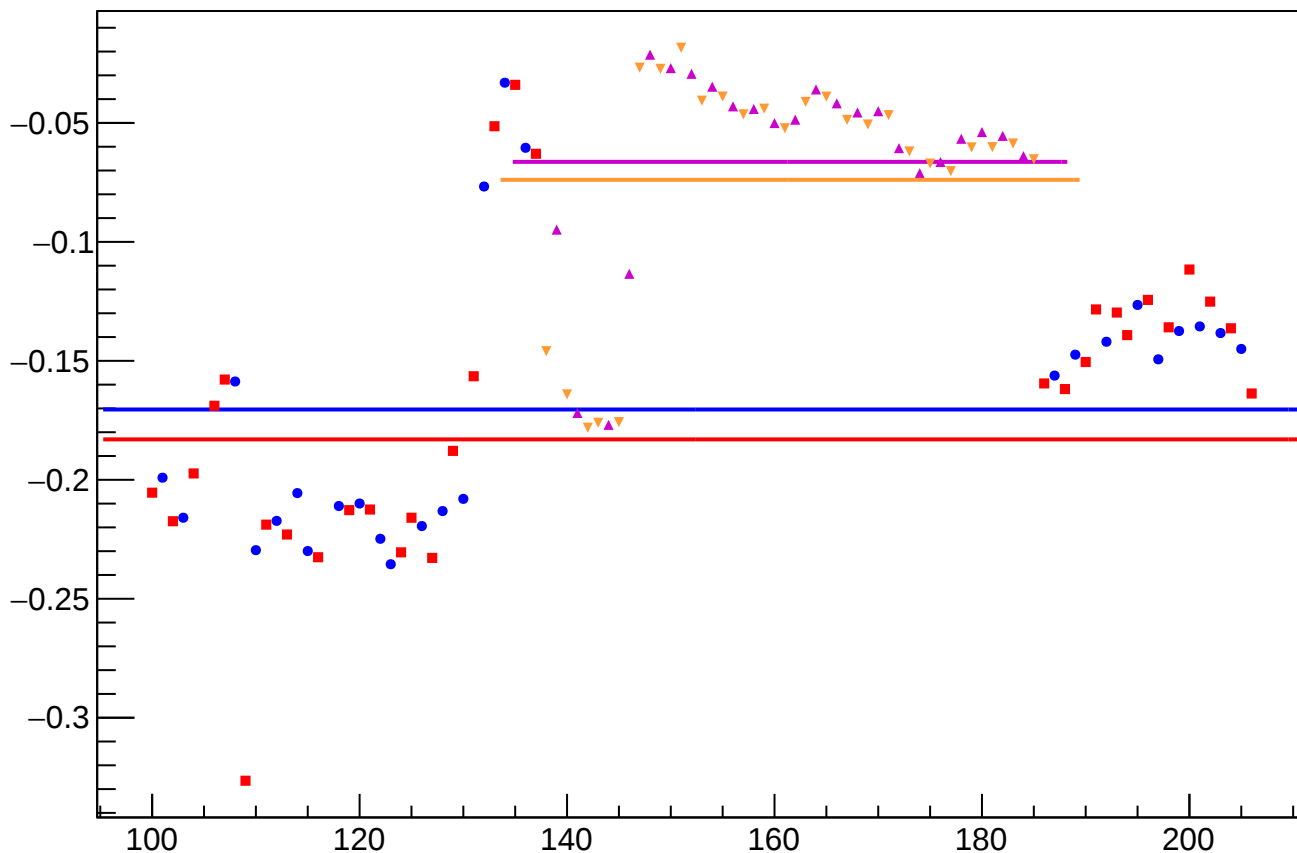
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3733947.7/56

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2511416.9/48

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3366304.2/55

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5880745.8/104

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.170+/-0.000 χ^2/NDF : 68370302.9/25

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.183+/-0.000 χ^2/NDF : 85890993.6/30

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

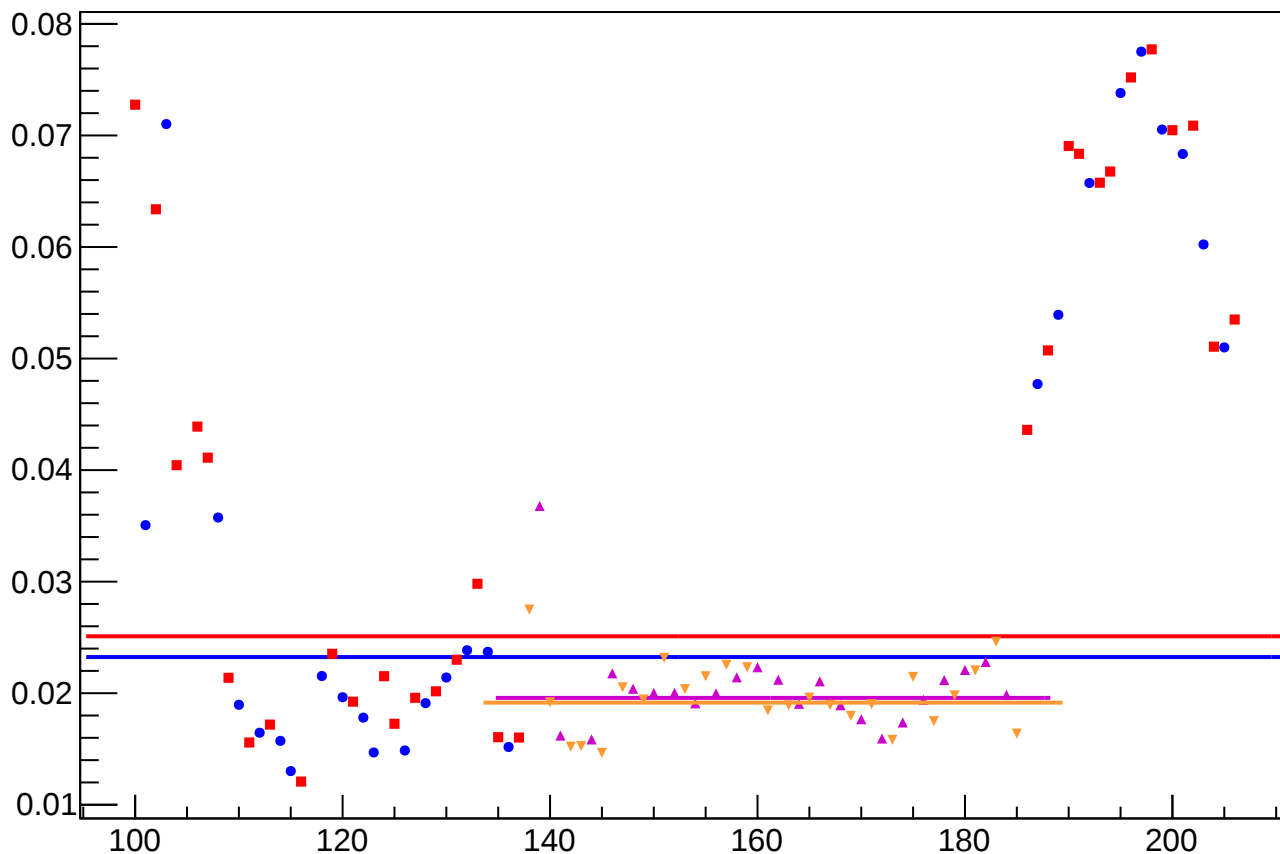
Right: -0.177+/-0.000 χ^2/NDF : 155477594.5/56

In: -0.097+/-0.000 χ^2/NDF : 262630312.5/48

Out: -0.104+/-0.000 χ^2/NDF : 327754050.8/55

All: -0.100+/-0.000 χ^2/NDF : 591760503.6/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 6760179.4/25

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.025+/-0.000 χ^2/NDF : 7840302.6/30

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

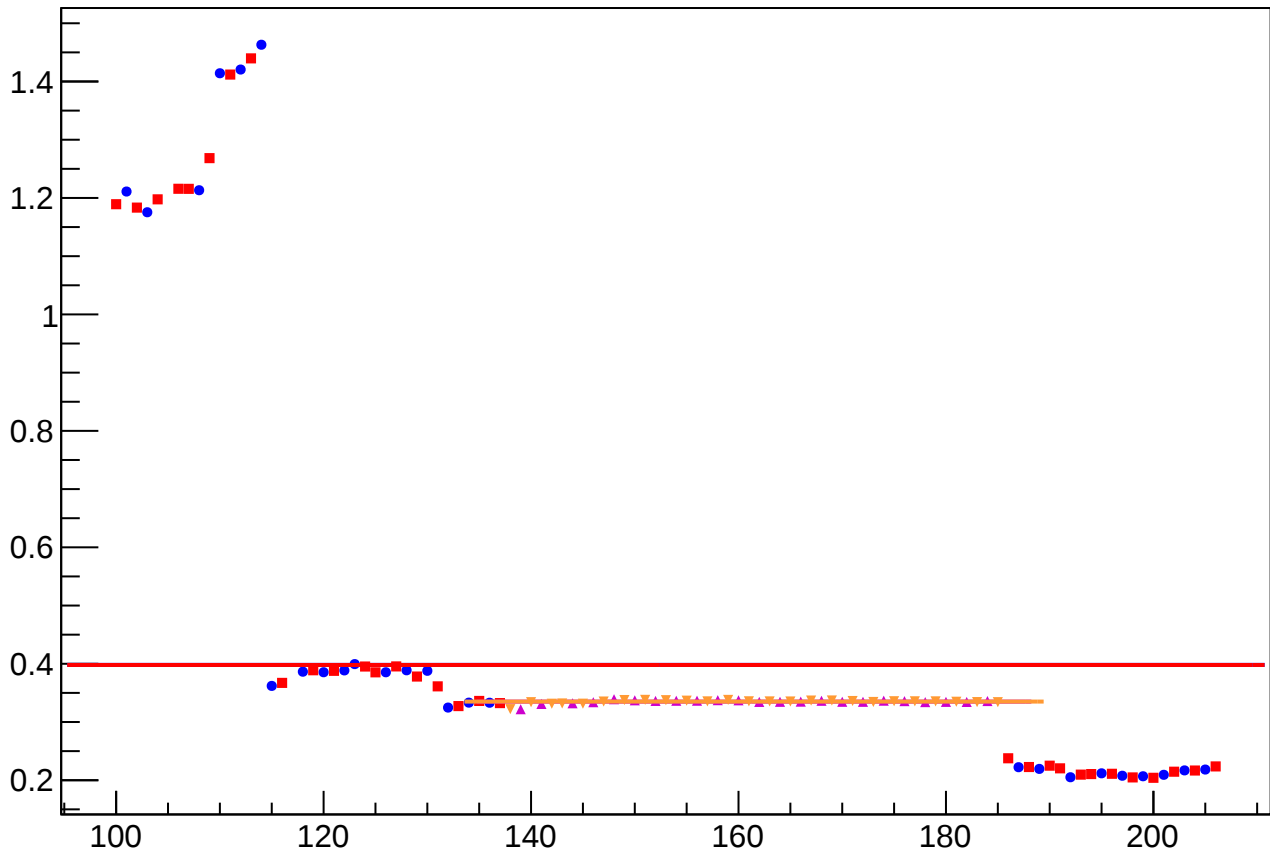
Right: 0.024+/-0.000 χ^2/NDF : 14654016.9/56

In: 0.021+/-0.000 χ^2/NDF : 7703337.0/48

Out: 0.021+/-0.000 χ^2/NDF : 9278332.3/55

All: 0.021+/-0.000 χ^2/NDF : 16982673.7/104

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.398+/-0.000 χ^2/NDF : 7288282984.5/25

Left Out: 0.335+/-0.000 χ^2/NDF : 1153956.7/24

Right Out: 0.398+/-0.000 χ^2/NDF : 8528404288.5/30

Left In: 0.335+/-0.000 χ^2/NDF : 1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

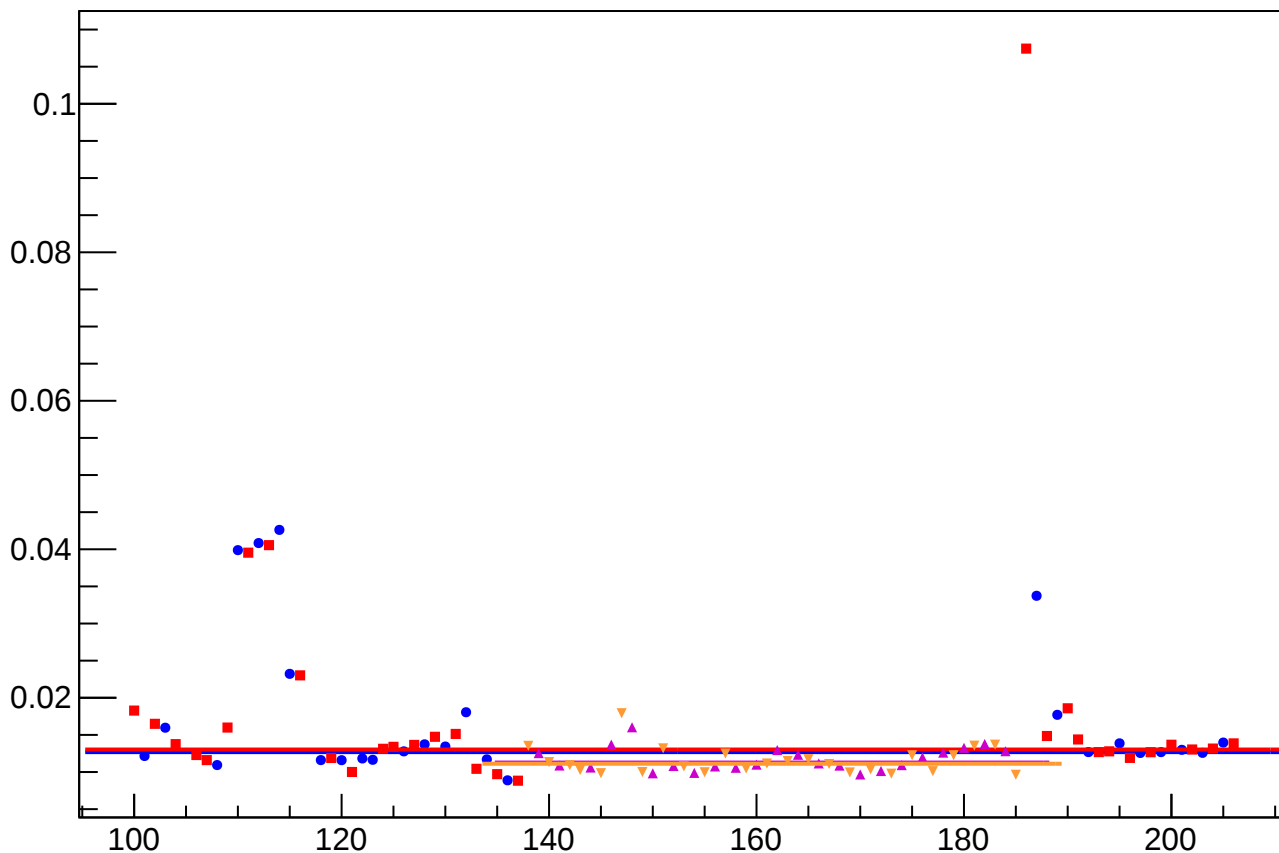
Right: 0.398+/-0.000 χ^2/NDF : 15816688087.8/56

In: 0.357+/-0.000 χ^2/NDF : 7473992410.6/48

Out: 0.357+/-0.000 χ^2/NDF : 8728369374.0/55

All: 0.357+/-0.000 χ^2/NDF : 16202362078.6/112

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1524254.6/25

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1940293.0/30

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

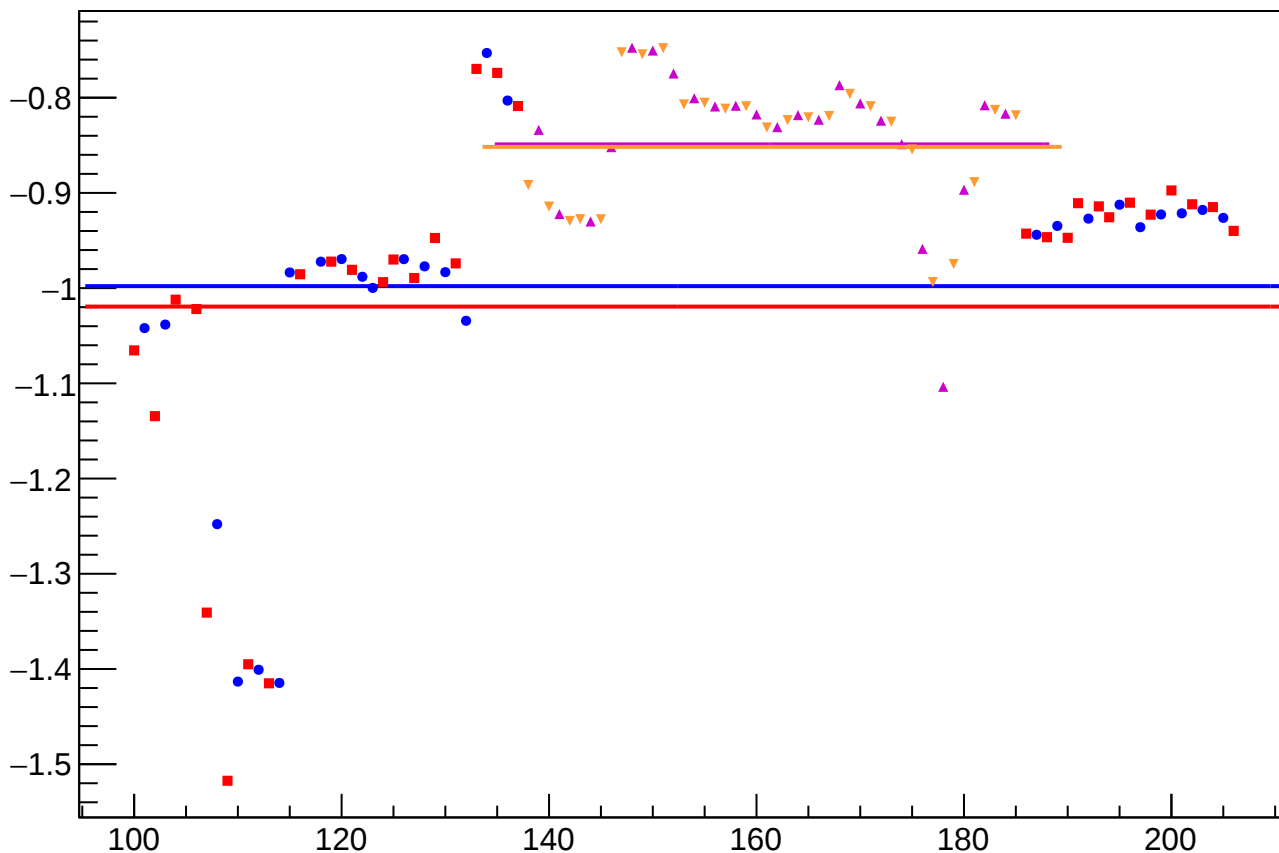
Right: 0.013+/-0.000 χ^2/NDF : 3473642.5/56

In: 0.012+/-0.000 χ^2/NDF : 2209949.8/48

Out: 0.012+/-0.000 χ^2/NDF : 2917076.8/55

All: 0.012+/-0.000 χ^2/NDF : 5127137.4/104

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.998 $\pm$ 0.000 χ^2 /NDF: 402256314.2/25

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189276591.7/24

Right Out: -1.019 $\pm$ 0.000 χ^2 /NDF: 556834044.4/30

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256438306.8/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445849768.4/47

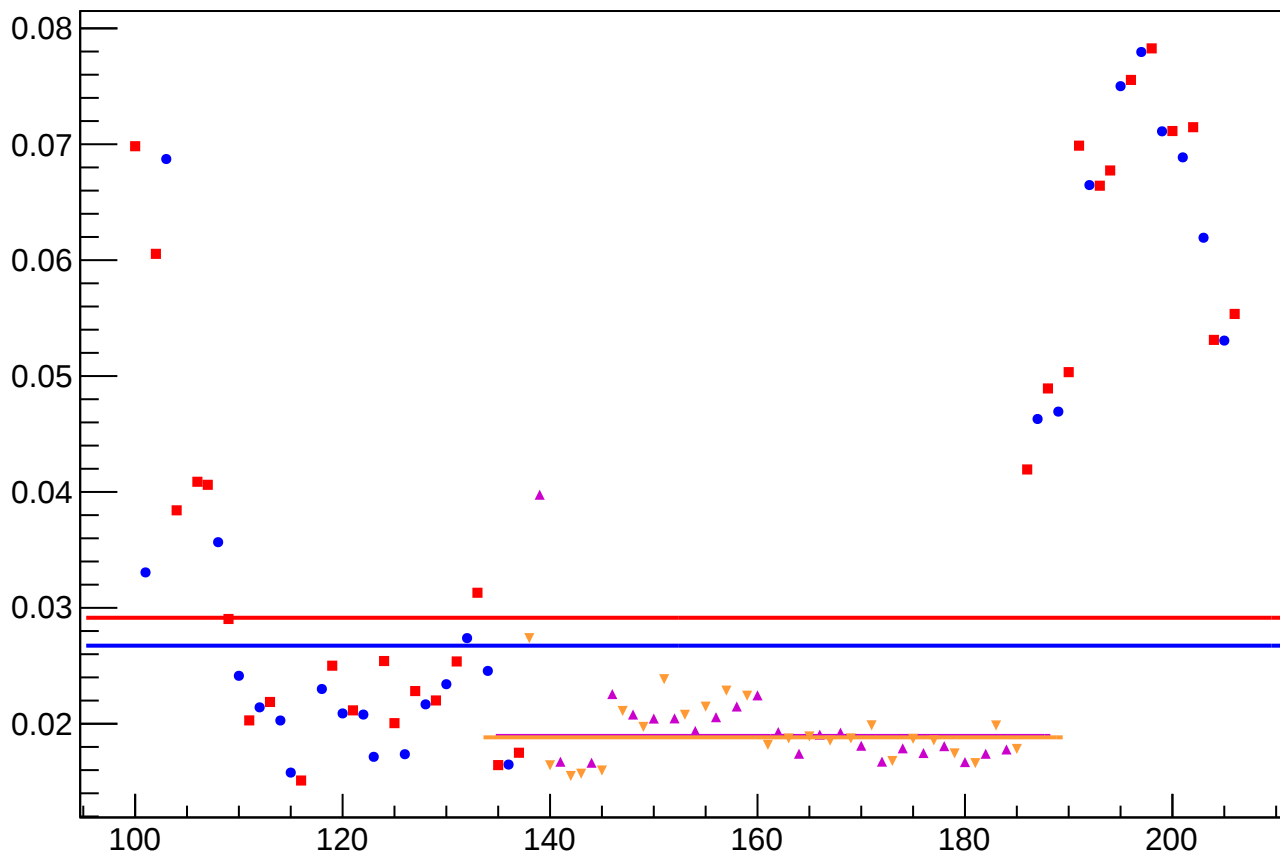
Right: -1.009 $\pm$ 0.000 χ^2 /NDF: 961916170.7/56

In: -0.885 $\pm$ 0.000 χ^2 /NDF:865433935.9/48

Out: -0.890 $\pm$ 0.000 χ^2 /NDF:1013860464.2/55

All: -0.887 $\pm$ 0.000 χ^2 /NDF: 1879997490.7/1

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.000 χ^2 /NDF: 5788569.4/25

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490084.5/24

Right Out: 0.029 $\pm$ 0.000 χ^2 /NDF: 6388586.4/30

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:645048.1/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1135735.6/47

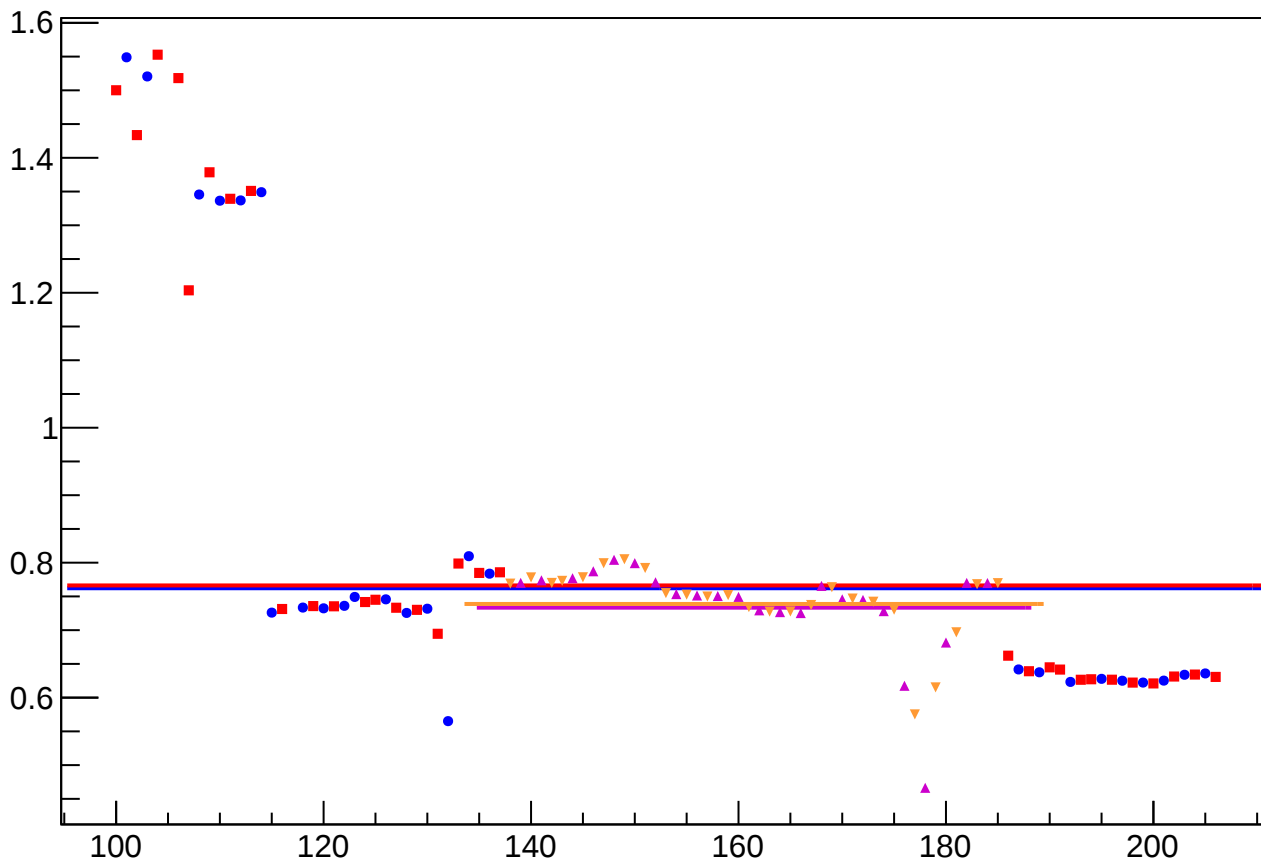
Right: 0.028 $\pm$ 0.000 χ^2 /NDF: 12248323.2/56

In: 0.021 $\pm$ 0.000 χ^2 /NDF:7565184.8/48

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:8904565.4/55

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 16476700.1/104

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.762 $\pm$ 0.000 χ^2 /NDF: 3375496236.9/25

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333086309.0/24

Right Out: 0.766 $\pm$ 0.000 χ^2 /NDF: 3760823417.6/30

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

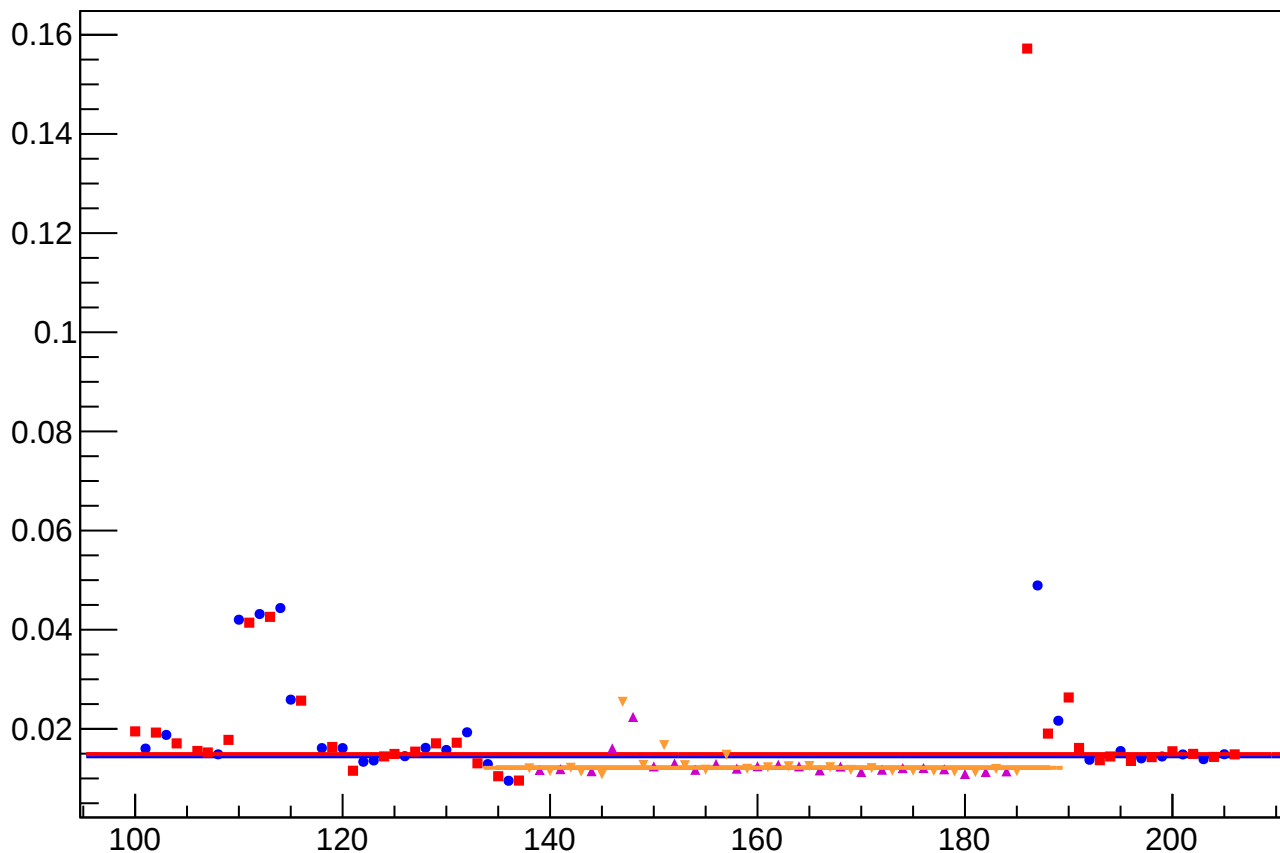
Right: 0.764 $\pm$ 0.000 χ^2 /NDF: 7136813113.1/56

In: 0.743 $\pm$ 0.000 χ^2 /NDF:3976359507.2/48

Out: 0.748 $\pm$ 0.000 χ^2 /NDF:4123890661.2/55

All: 0.745 $\pm$ 0.000 χ^2 /NDF: 8102600744.2/10

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1645790.3/25

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2078143.0/30

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

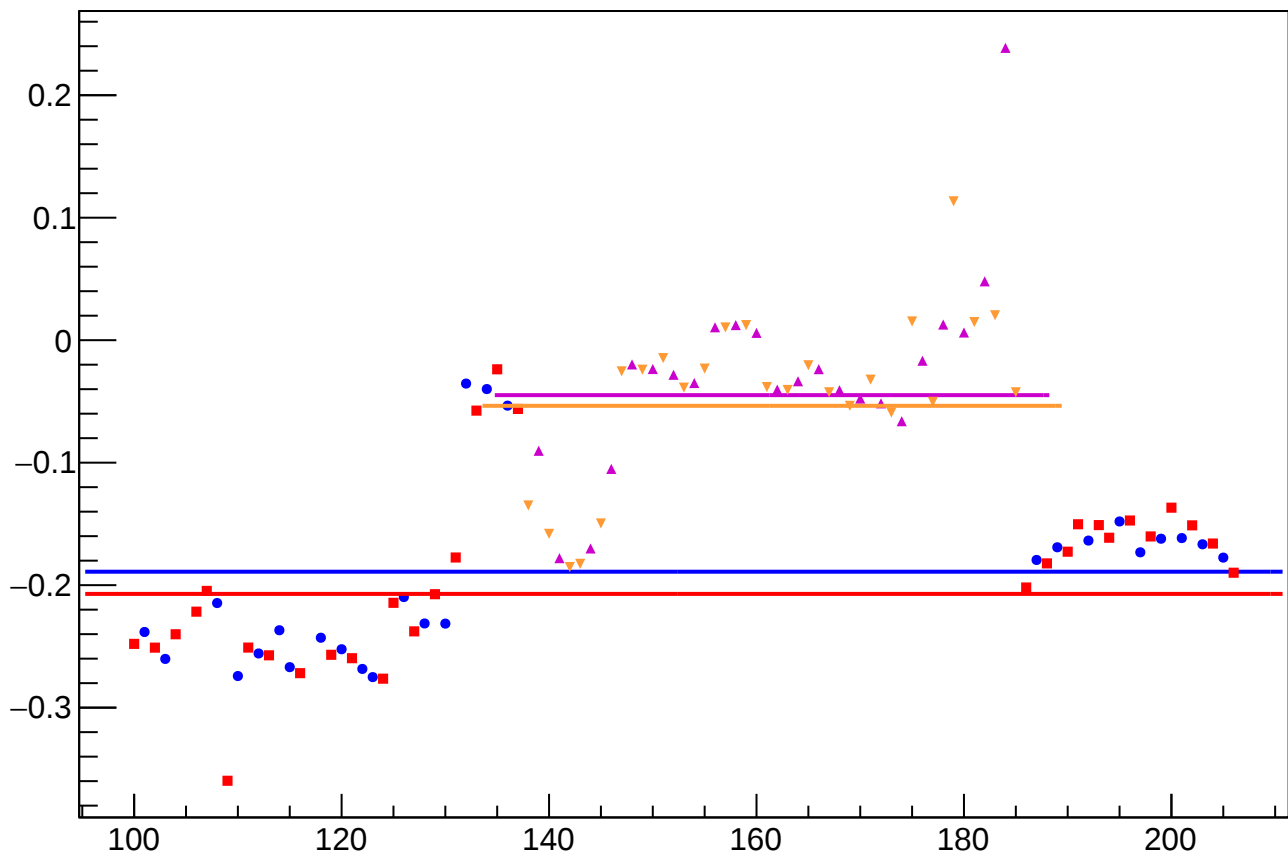
Right: 0.015+/-0.000 χ^2/NDF : 3735302.1/56

In: 0.013+/-0.000 χ^2/NDF : 2510768.5/48

Out: 0.013+/-0.000 χ^2/NDF : 3328095.3/55

All: 0.013+/-0.000 χ^2/NDF : 5841717.6/104

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.189 ± 0.000 χ^2/NDF : 106882758.7/25

Left Out: -0.054 ± 0.000 χ^2/NDF : 167879648.0/24

Right Out: -0.207 ± 0.000 χ^2/NDF : 113821170.2/30

Left In: -0.045 ± 0.000 χ^2/NDF : 127324000.1/22

Left: -0.049 ± 0.000 χ^2/NDF : 296677486.5/47

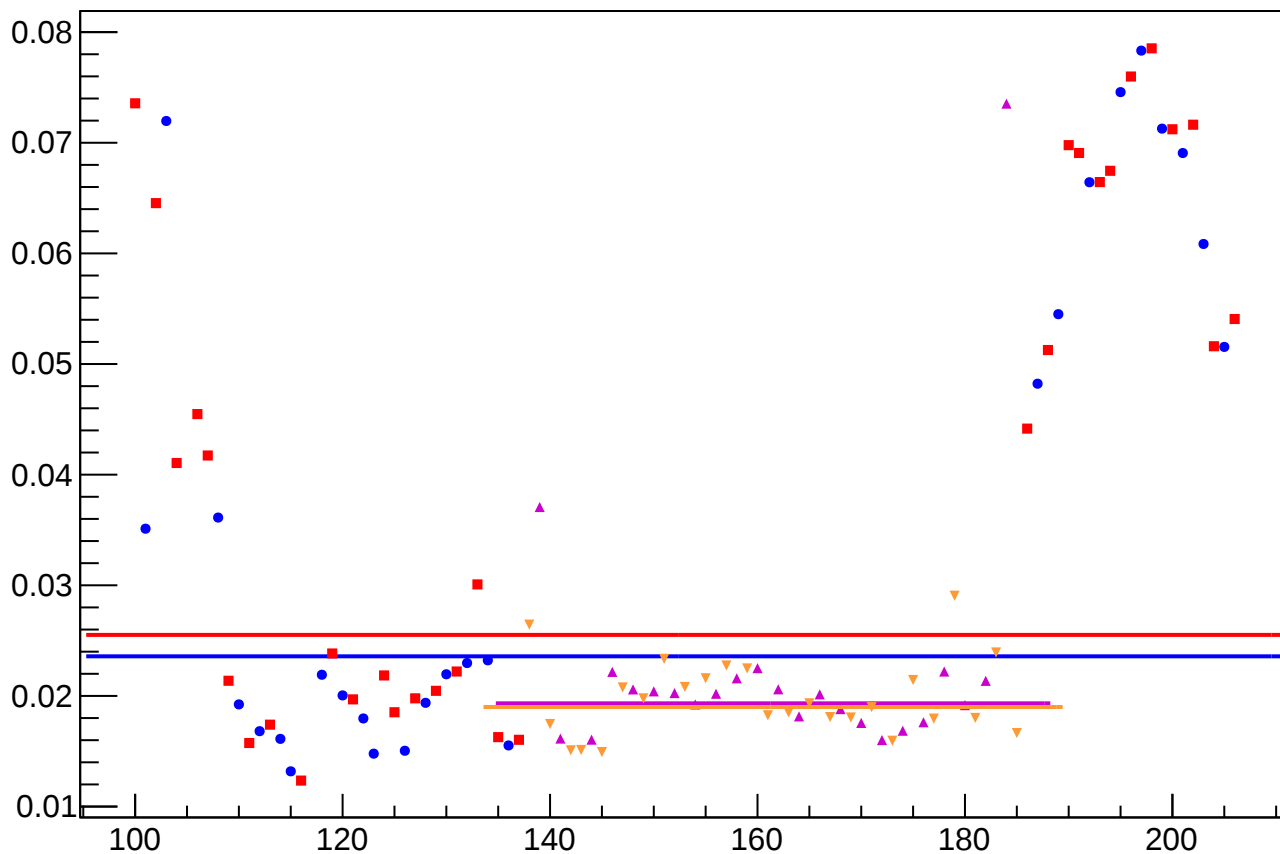
Right: -0.198 ± 0.000 χ^2/NDF : 223163625.0/56

In: -0.086 ± 0.000 χ^2/NDF : 455961599.5/48

Out: -0.095 ± 0.000 χ^2/NDF : 540107782.5/55

All: -0.091 ± 0.000 χ^2/NDF : 998225836.2/10

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 6709951.3/25

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 699267.5/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 7792071.3/30

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 892810.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1596405.3/47

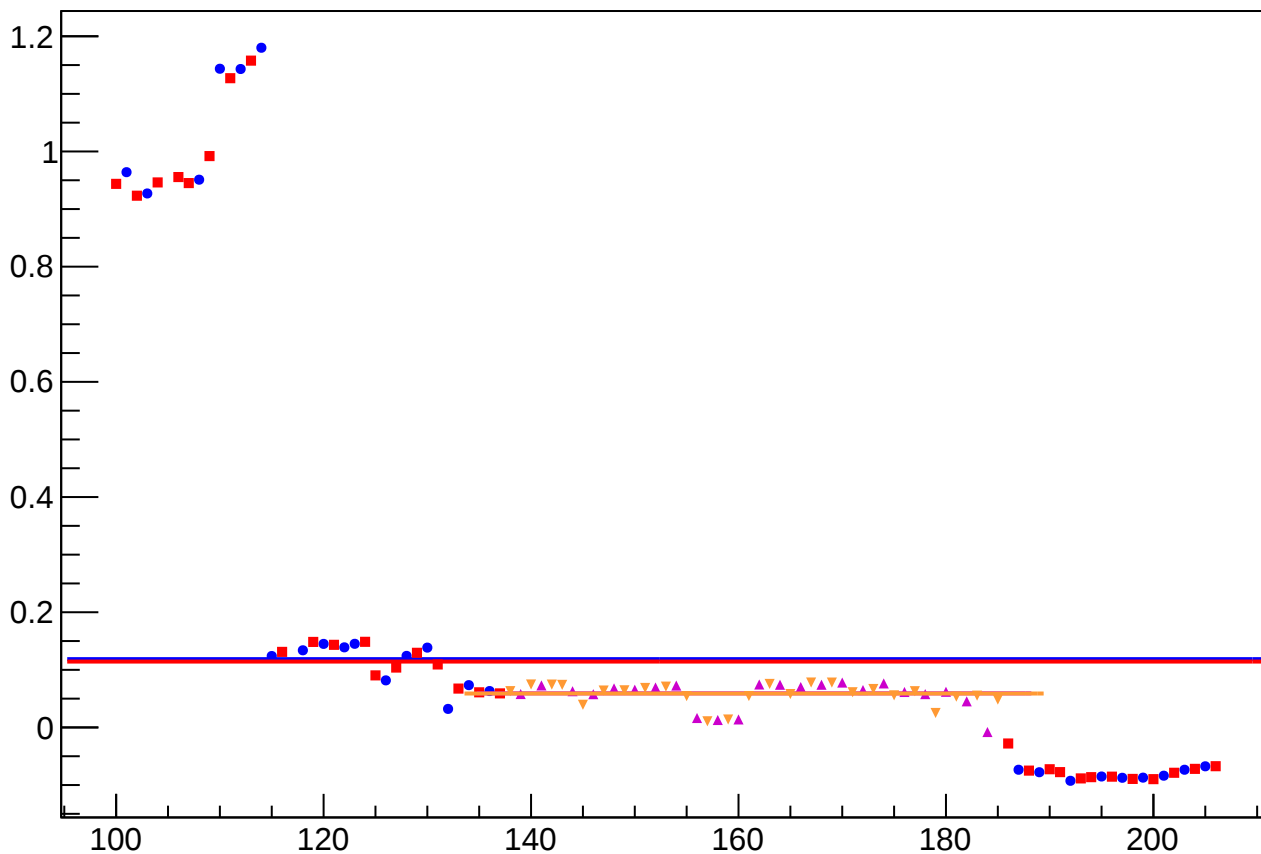
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 14558217.3/56

In: 0.021 $\pm$ 0.000 χ^2 /NDF: 7988370.9/48

Out: 0.021 $\pm$ 0.000 χ^2 /NDF: 9423248.0/55

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 17414030.6/104

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.119 ± 0.000

$\chi^2/\text{NDF}: 7845703049.8/25$

Left: 0.059 ± 0.000 $\chi^2/\text{NDF}: 105549886.8/47$

Right: 0.116 ± 0.000 $\chi^2/\text{NDF}: 16830071257.4/56$

Left Out: 0.059 ± 0.000

$\chi^2/\text{NDF}: 46902918.4/24$

In: 0.080 ± 0.000 $\chi^2/\text{NDF}: 8072330816.2/48$

Out: 0.079 ± 0.000 $\chi^2/\text{NDF}: 9188019055.3/55$

Right Out: 0.114 ± 0.000

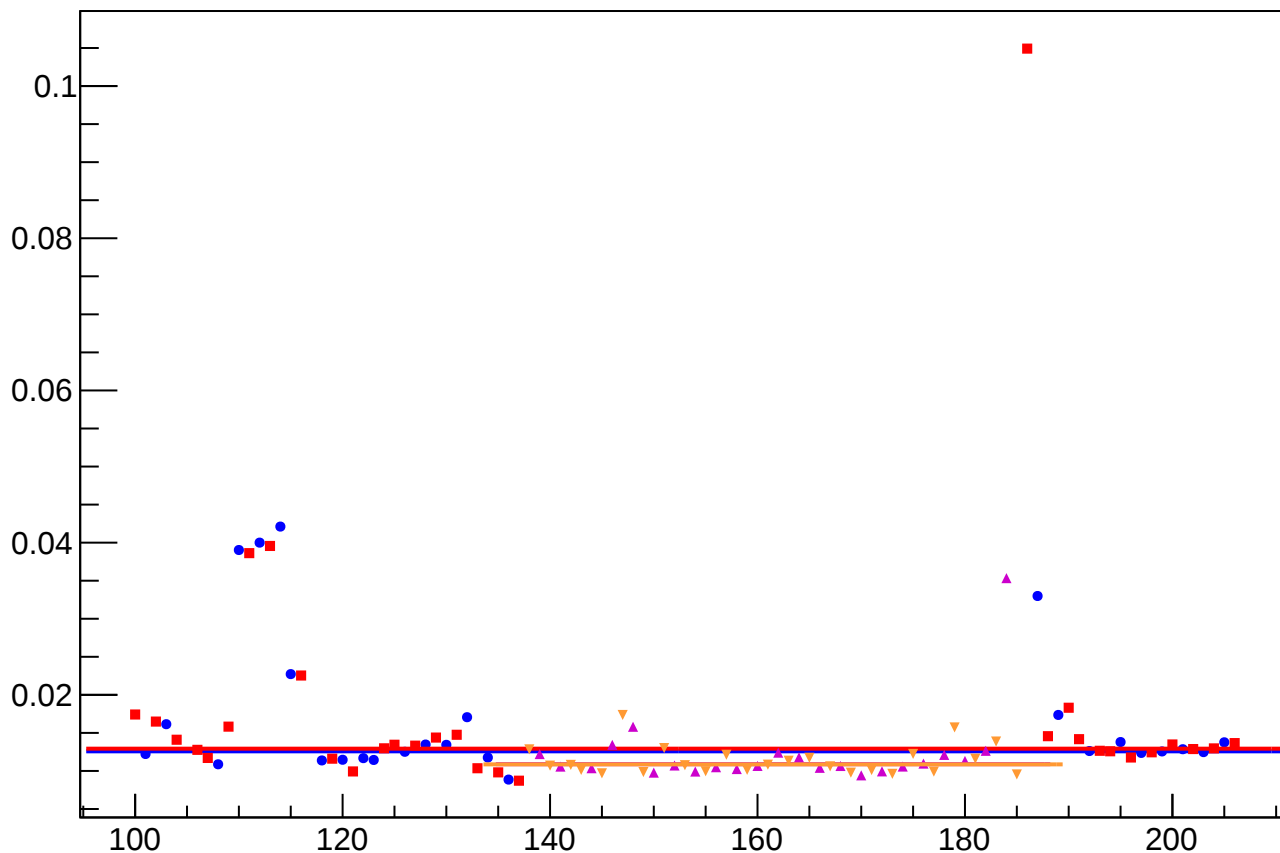
$\chi^2/\text{NDF}: 8983692294.2/30$

Left In: 0.059 ± 0.000

$\chi^2/\text{NDF}: 58640898.5/22$

All: 0.079 ± 0.000 $\chi^2/\text{NDF}: 17260524189.3/100$

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1489356.0/25

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1896598.3/30

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

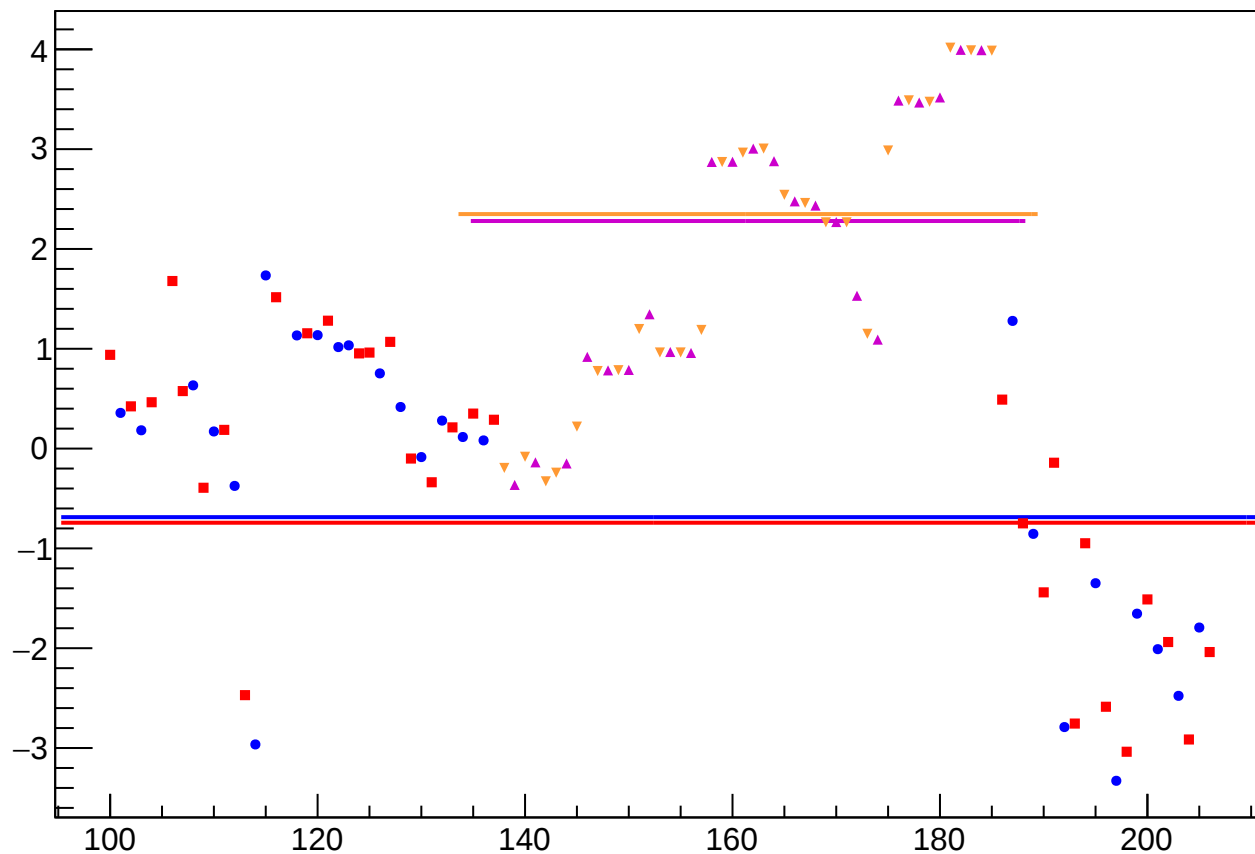
Right: 0.013+/-0.000 χ^2/NDF : 3395213.9/56

In: 0.011+/-0.000 χ^2/NDF : 2289750.7/48

Out: 0.012+/-0.000 χ^2/NDF : 2937140.1/55

All: 0.012+/-0.000 χ^2/NDF : 5229898.4/104

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.687 ± 0.000 $\chi^2/\text{NDF}: 5931748856.8/25$

Left Out: 2.349 ± 0.000 $\chi^2/\text{NDF}: 63600066268.3/24$

Right Out: -0.743 ± 0.000 $\chi^2/\text{NDF}: 7585115836.5/30$

Left In: 2.280 ± 0.000 $\chi^2/\text{NDF}: 61444254541.3/22$

Left: 2.314 ± 0.000 $\chi^2/\text{NDF}: 125168787170.9/47$

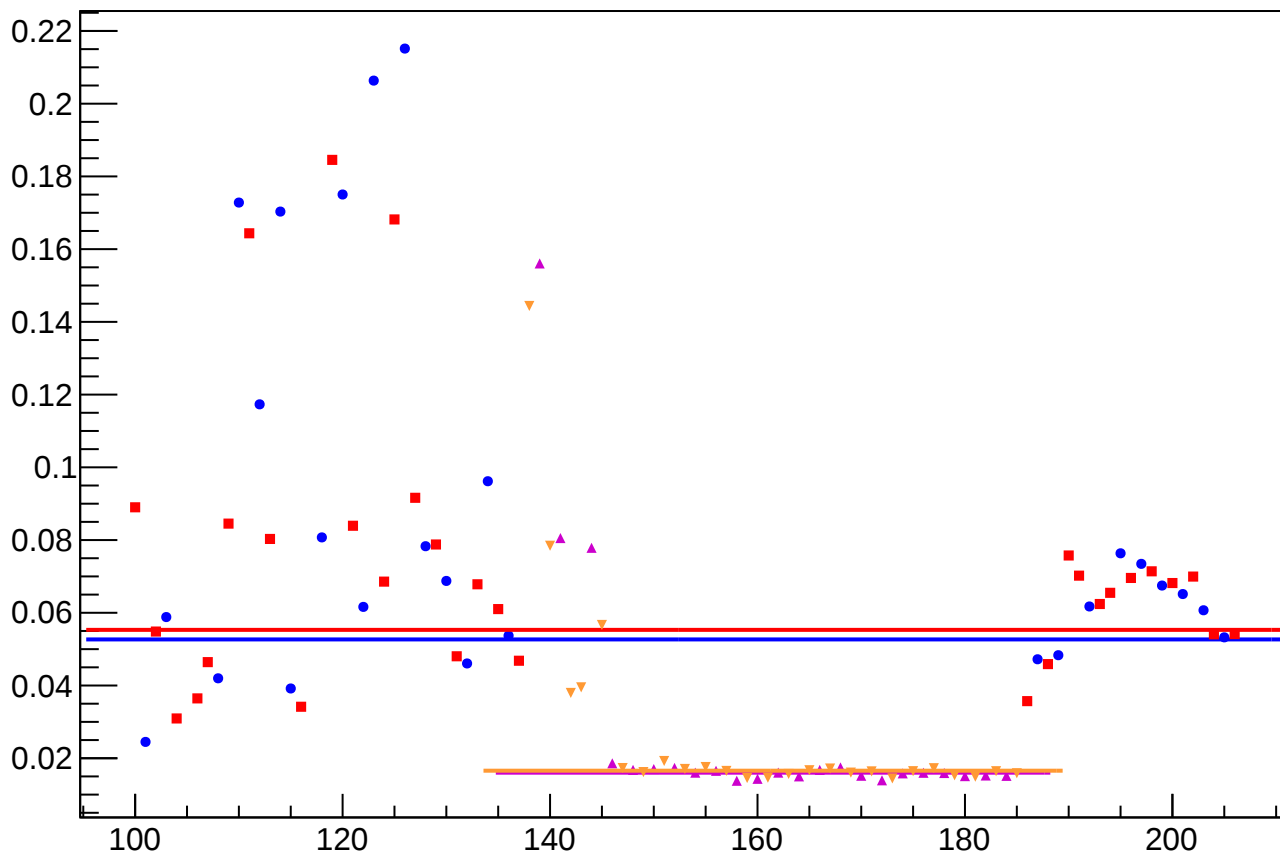
Right: -0.717 ± 0.000 $\chi^2/\text{NDF}: 13522309282.7/56$

In: 2.104 ± 0.000 $\chi^2/\text{NDF}: 94595825374.1/48$

Out: 2.140 ± 0.000 $\chi^2/\text{NDF}: 104238705894.6/55$

All: 2.122 ± 0.000 $\chi^2/\text{NDF}: 198870304426.5$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.053+/-0.000 χ^2/NDF : 3459092.8/25

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2838047.8/30

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

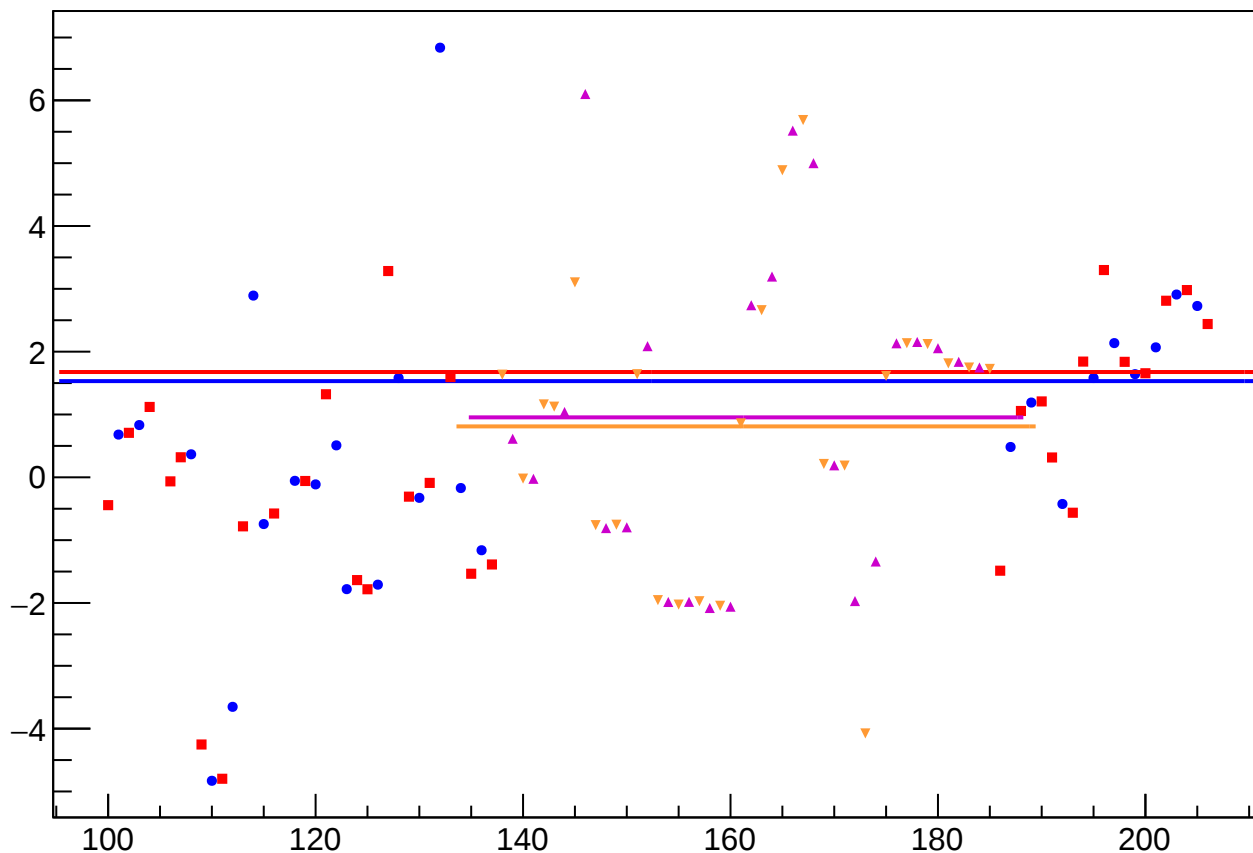
Right: 0.054+/-0.000 χ^2/NDF : 6321234.6/56

In: 0.018+/-0.000 χ^2/NDF : 14226590.0/48

Out: 0.019+/-0.000 χ^2/NDF : 15830448.6/55

All: 0.019+/-0.000 χ^2/NDF : 30111524.8/104

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.531 $\pm$ 0.000

χ^2/NDF : 30171918431.6/25

Left: 0.883 $\pm$ 0.000 χ^2/NDF : 1083260277372.9/47

Right: 1.609 $\pm$ 0.000 χ^2/NDF : 63661679206.5/56

Left Out: 0.810 $\pm$ 0.000

χ^2/NDF : 507583198570.2/24

In: 1.057 $\pm$ 0.000 χ^2/NDF : 610057744845.5/48

Right Out: 1.676 $\pm$ 0.000

χ^2/NDF : 33279154545.4/30

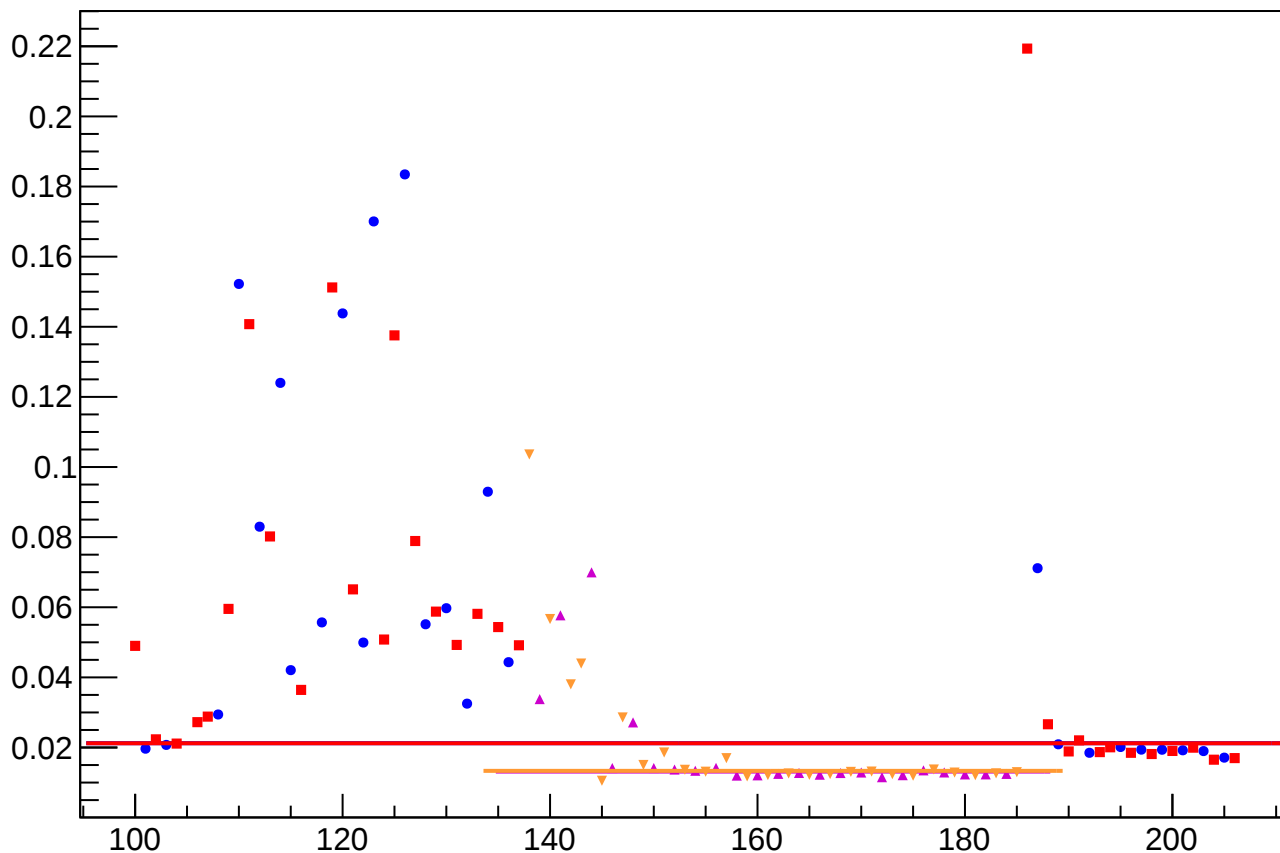
Out: 0.987 $\pm$ 0.000 χ^2/NDF : 553870321038.1/55

Left In: 0.954 $\pm$ 0.000

χ^2/NDF : 574792794608.3/22

All: 1.022 $\pm$ 0.000 χ^2/NDF : 1164189955921.0

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 3798925.6/25

Left Out: 0.013+/-0.000 χ^2/NDF : 2829070.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5030573.7/30

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

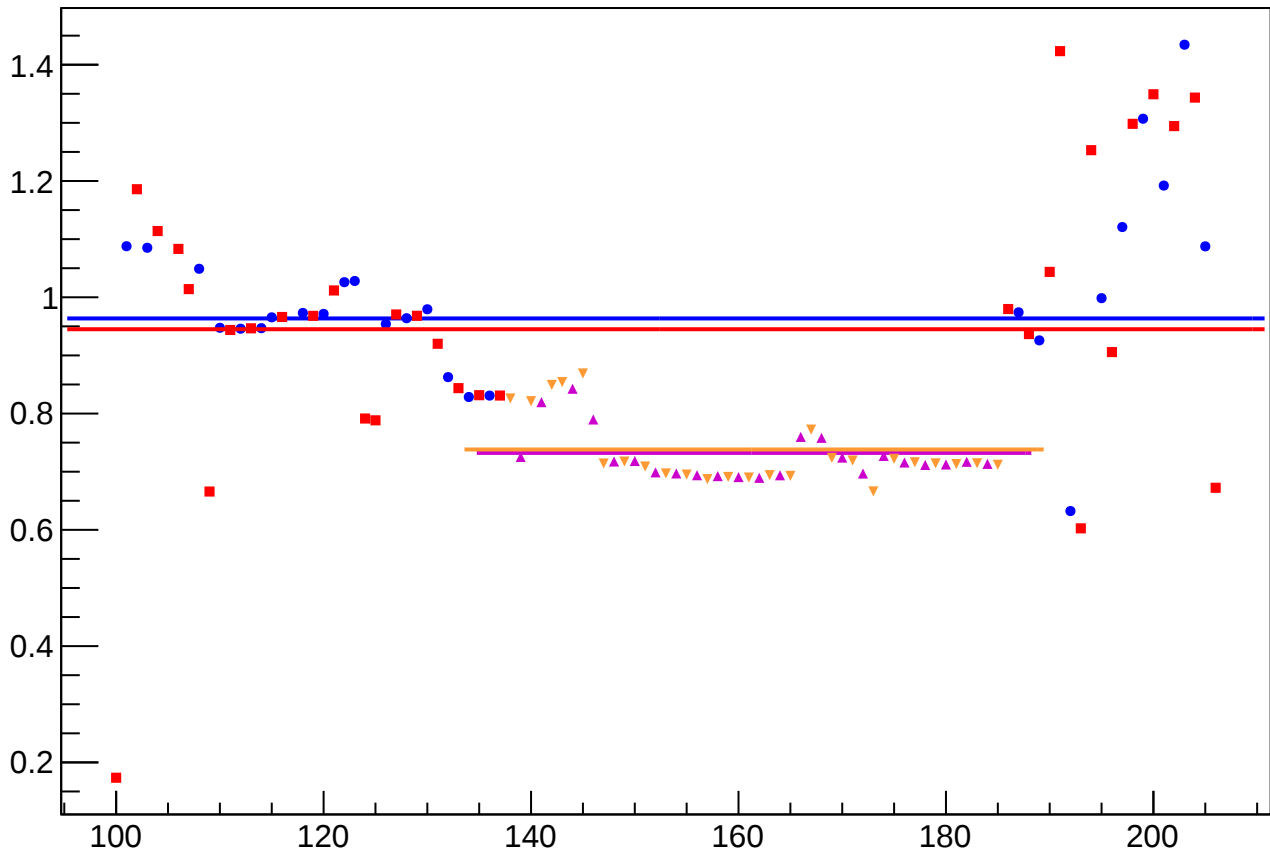
Right: 0.021+/-0.000 χ^2/NDF : 8829509.7/56

In: 0.015+/-0.000 χ^2/NDF : 7772346.3/48

Out: 0.015+/-0.000 χ^2/NDF : 10008059.2/55

All: 0.015+/-0.000 χ^2/NDF : 17794404.0/104

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.964 ± 0.000 $\chi^2/\text{NDF}: 577056122.4/25$

Left Out: 0.738 ± 0.000 $\chi^2/\text{NDF}: 310610047.7/24$

Right Out: 0.945 ± 0.000 $\chi^2/\text{NDF}: 1053030723.5/30$

Left In: 0.732 ± 0.000 $\chi^2/\text{NDF}: 170806298.1/22$

Left: 0.735 ± 0.000 $\chi^2/\text{NDF}: 482865670.9/47$

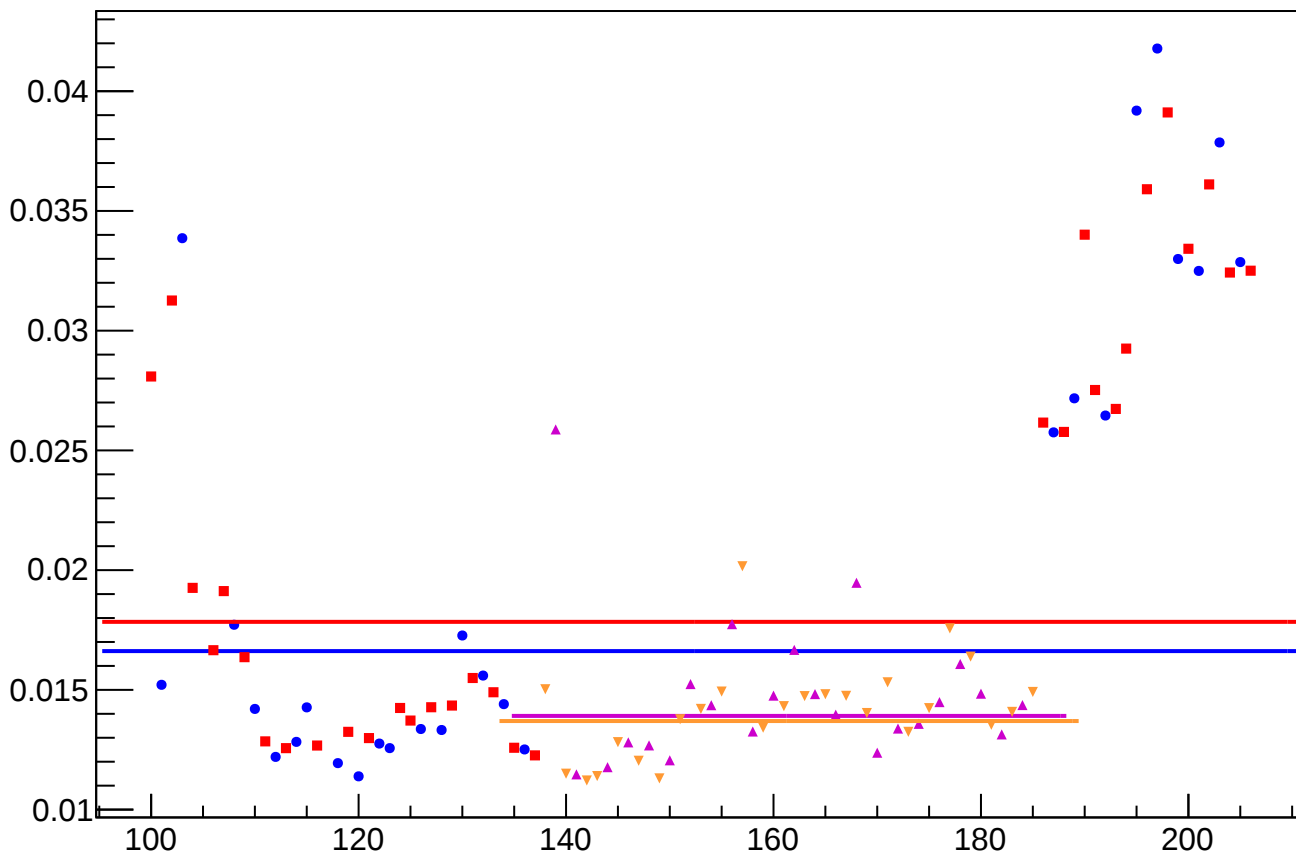
Right: 0.954 ± 0.000 $\chi^2/\text{NDF}: 1636357702.5/56$

In: 0.804 ± 0.000 $\chi^2/\text{NDF}: 2073970668.9/48$

Out: 0.800 ± 0.000 $\chi^2/\text{NDF}: 2474582398.6/55$

All: 0.802 ± 0.000 $\chi^2/\text{NDF}: 4549215267.3/100$

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 4010532.2/25

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.018+/-0.000 χ^2/NDF : 4044009.9/30

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

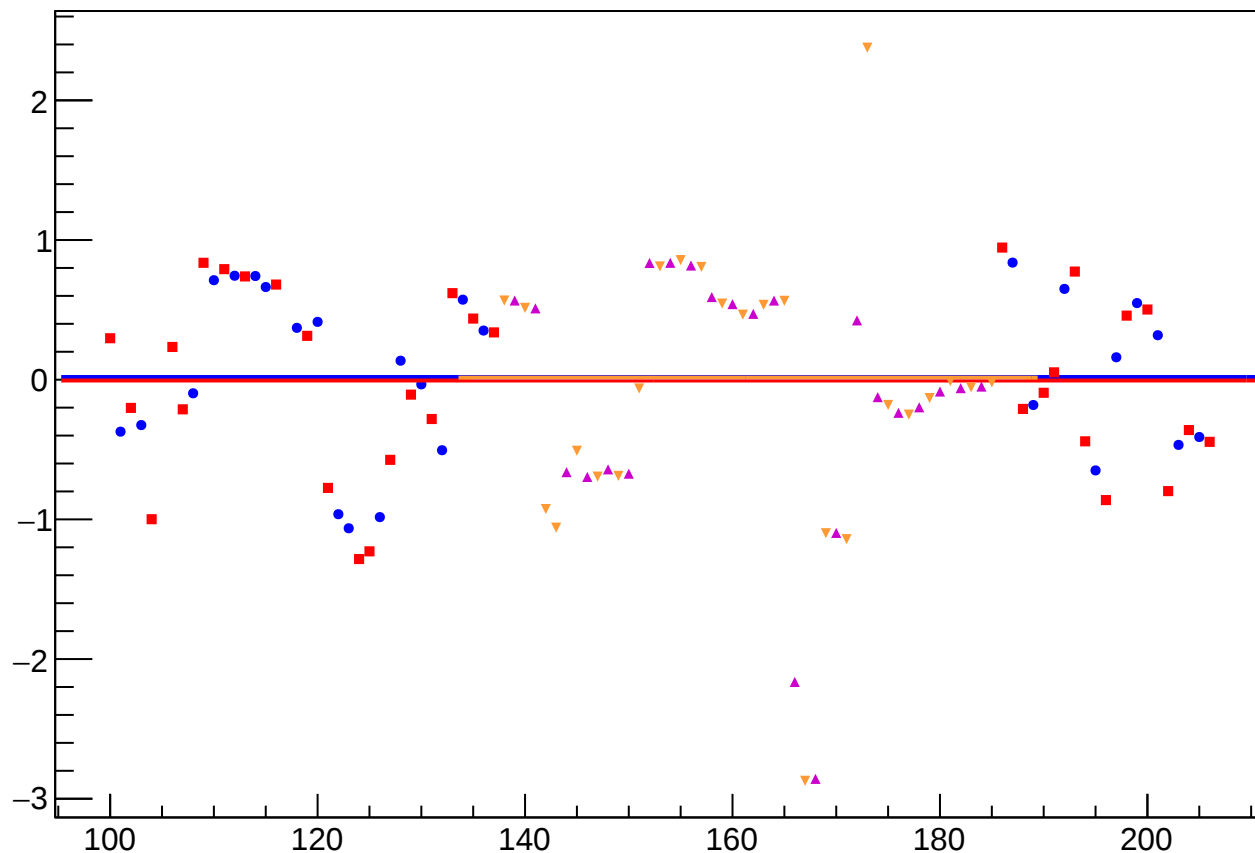
Right: 0.017+/-0.000 χ^2/NDF : 8108937.9/56

In: 0.015+/-0.000 χ^2/NDF : 5168302.7/48

Out: 0.015+/-0.000 χ^2/NDF : 5466159.4/55

All: 0.015+/-0.000 χ^2/NDF : 10638988.5/104

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 17884895088.9/25

Left Out: 0.015+/-0.000 χ^2/NDF : 96087835995.8/24

Right Out: -0.006+/-0.000 χ^2/NDF : 29550168559.7/30

Left In: 0.013+/-0.000 χ^2/NDF : 79445696658.6/22

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

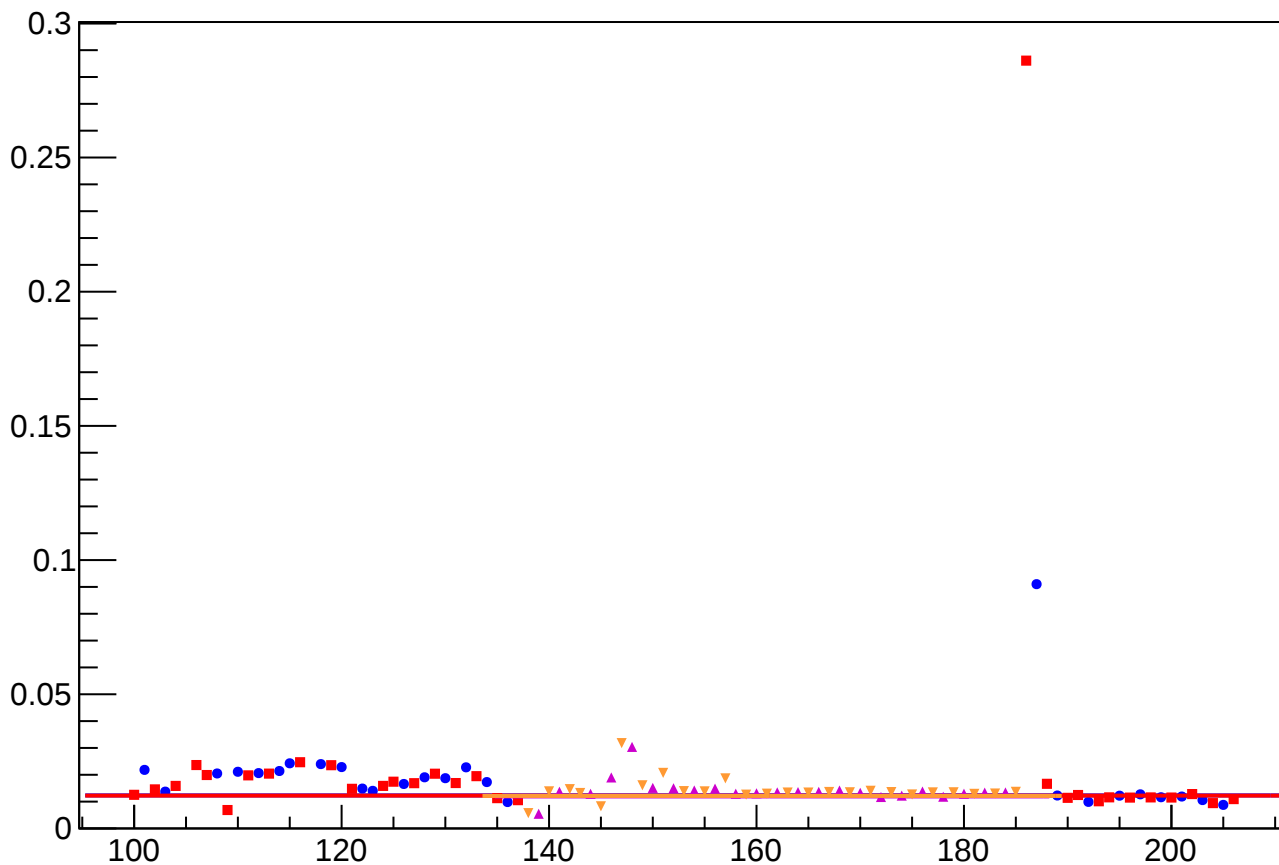
Right: 0.006+/-0.000 χ^2/NDF : 47458599021.5/56

In: 0.015+/-0.000 χ^2/NDF : 97332187040.5/48

Out: 0.006+/-0.000 χ^2/NDF : 125657647308.6/55

All: 0.011+/-0.000 χ^2/NDF : 222998140788.8

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2199157.1/25

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2682442.7/30

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

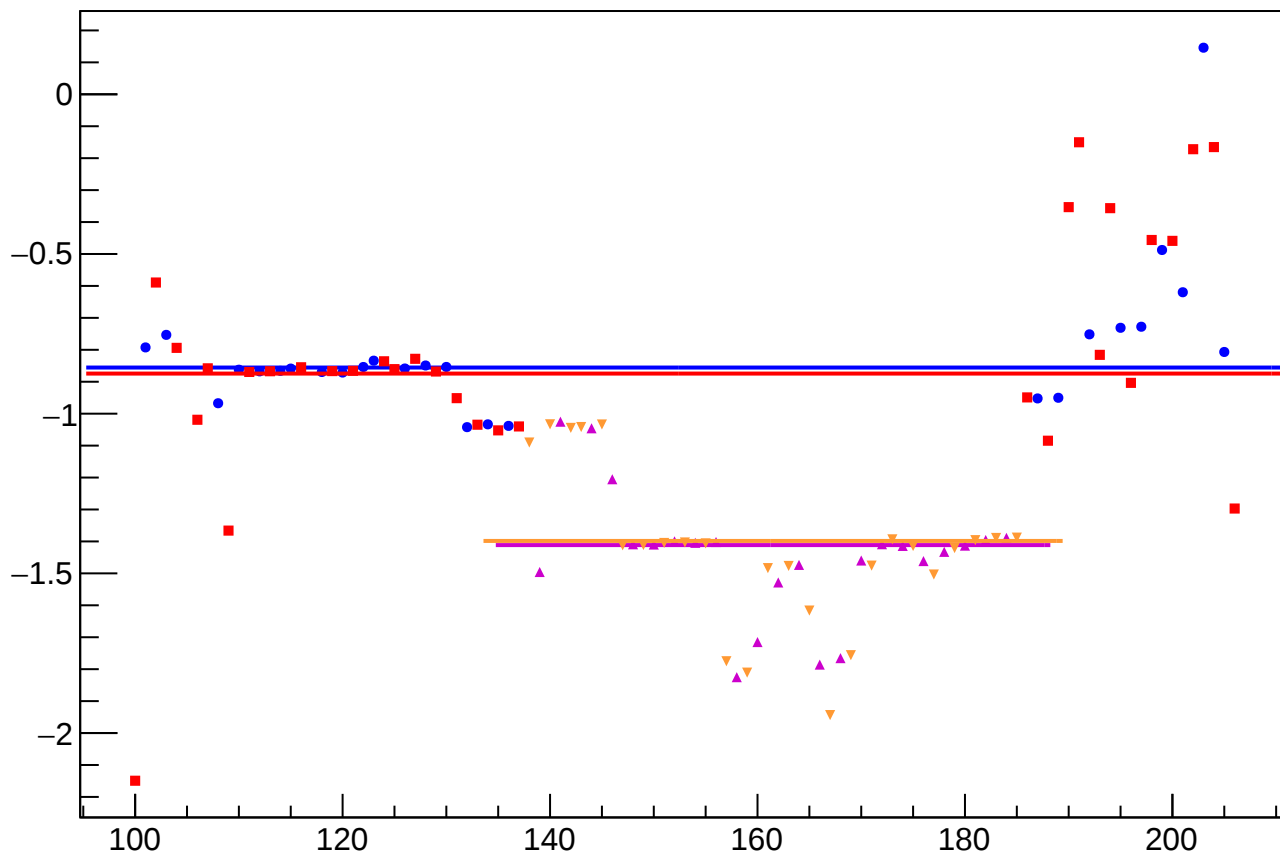
Right: 0.012+/-0.000 χ^2/NDF : 4882086.1/56

In: 0.012+/-0.000 χ^2/NDF :5318383.2/48

Out: 0.012+/-0.000 χ^2/NDF :5791603.5/55

All: 0.012+/-0.000 χ^2/NDF : 11111299.3/104

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.856 ± 0.000 $\chi^2/\text{NDF}: 168609339.5/25$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.874 ± 0.000 $\chi^2/\text{NDF}: 394002918.5/30$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

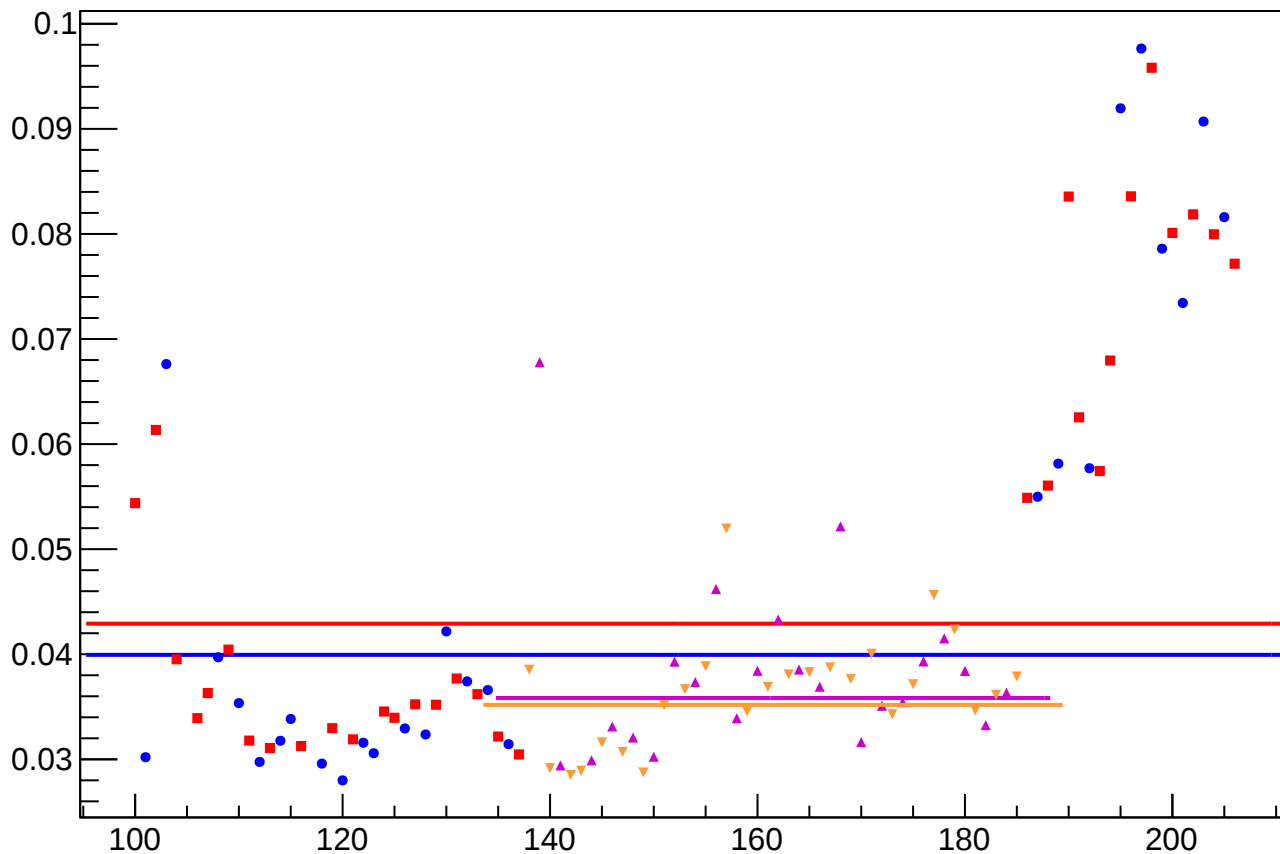
Right: -0.865 ± 0.000 $\chi^2/\text{NDF}: 563762675.2/56$

In: -1.219 ± 0.000 $\chi^2/\text{NDF}: 1960406624.8/48$

Out: -1.223 ± 0.000 $\chi^2/\text{NDF}: 2323932866.3/55$

All: -1.221 ± 0.000 $\chi^2/\text{NDF}: 4284447574.9/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.040 $\pm$ 0.000 χ^2 /NDF: 3669899.1/25

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:597886.0/24

Right Out: 0.043 $\pm$ 0.000 χ^2 /NDF: 3545849.6/30

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:890993.5/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1494255.9/47

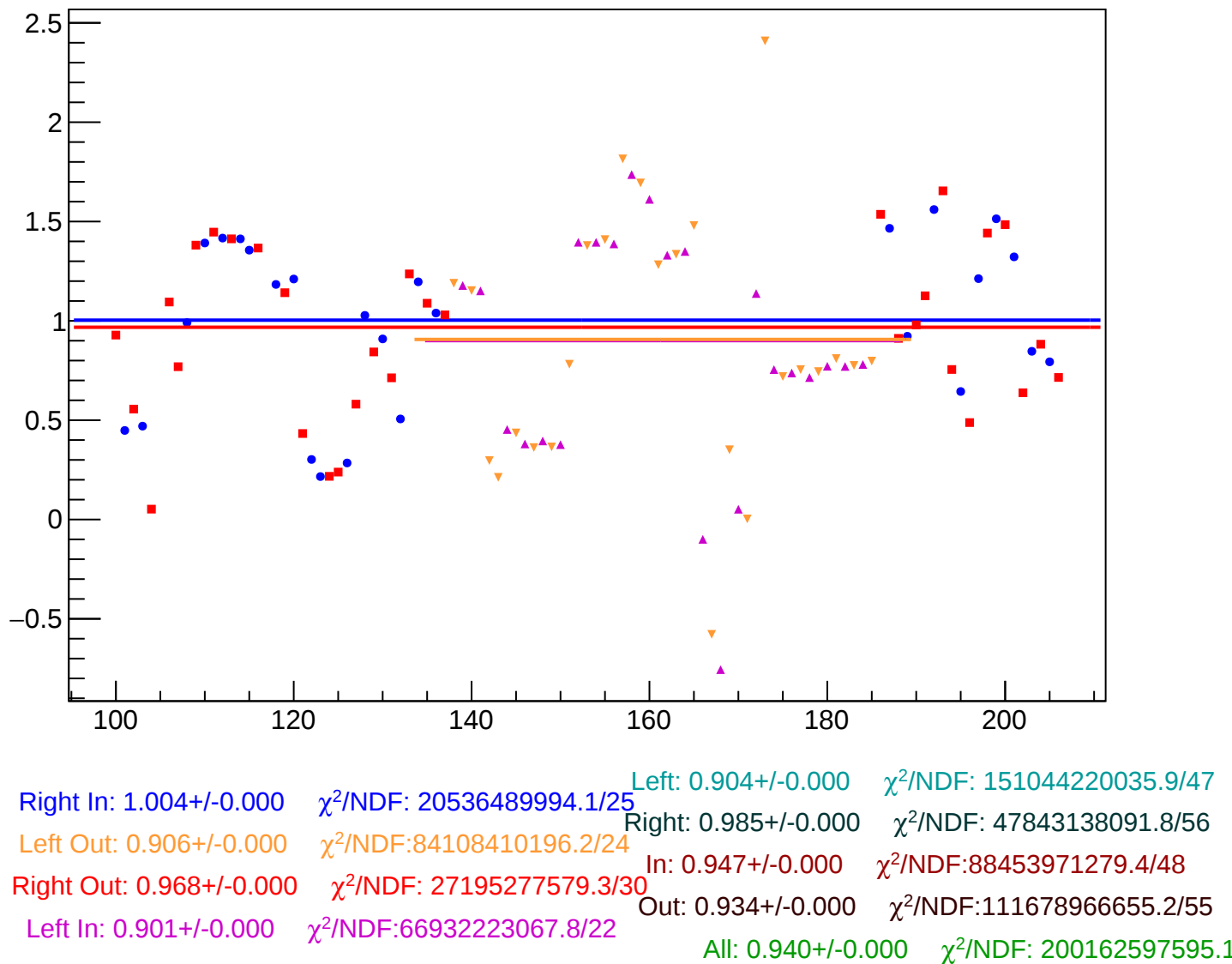
Right: 0.041 $\pm$ 0.000 χ^2 /NDF: 7272441.3/56

In: 0.037 $\pm$ 0.000 χ^2 /NDF:4700362.6/48

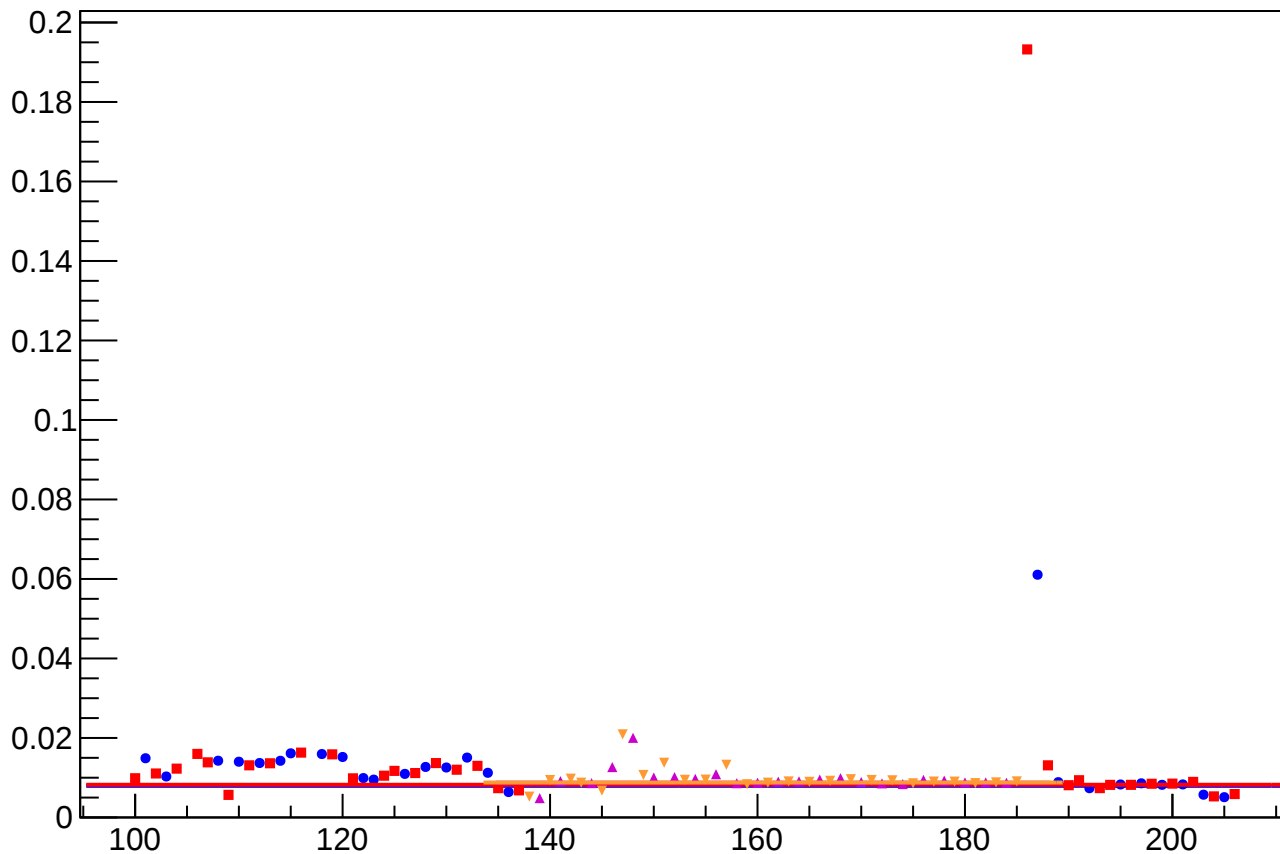
Out: 0.038 $\pm$ 0.000 χ^2 /NDF:4664014.3/55

All: 0.038 $\pm$ 0.000 χ^2 /NDF: 9369412.2/104

yield_bpm12Y_mean vs Slug, Sign Corrected



yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2721172.8/25

Left Out: 0.009+/-0.000 χ^2/NDF : 1698526.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3114642.1/30

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

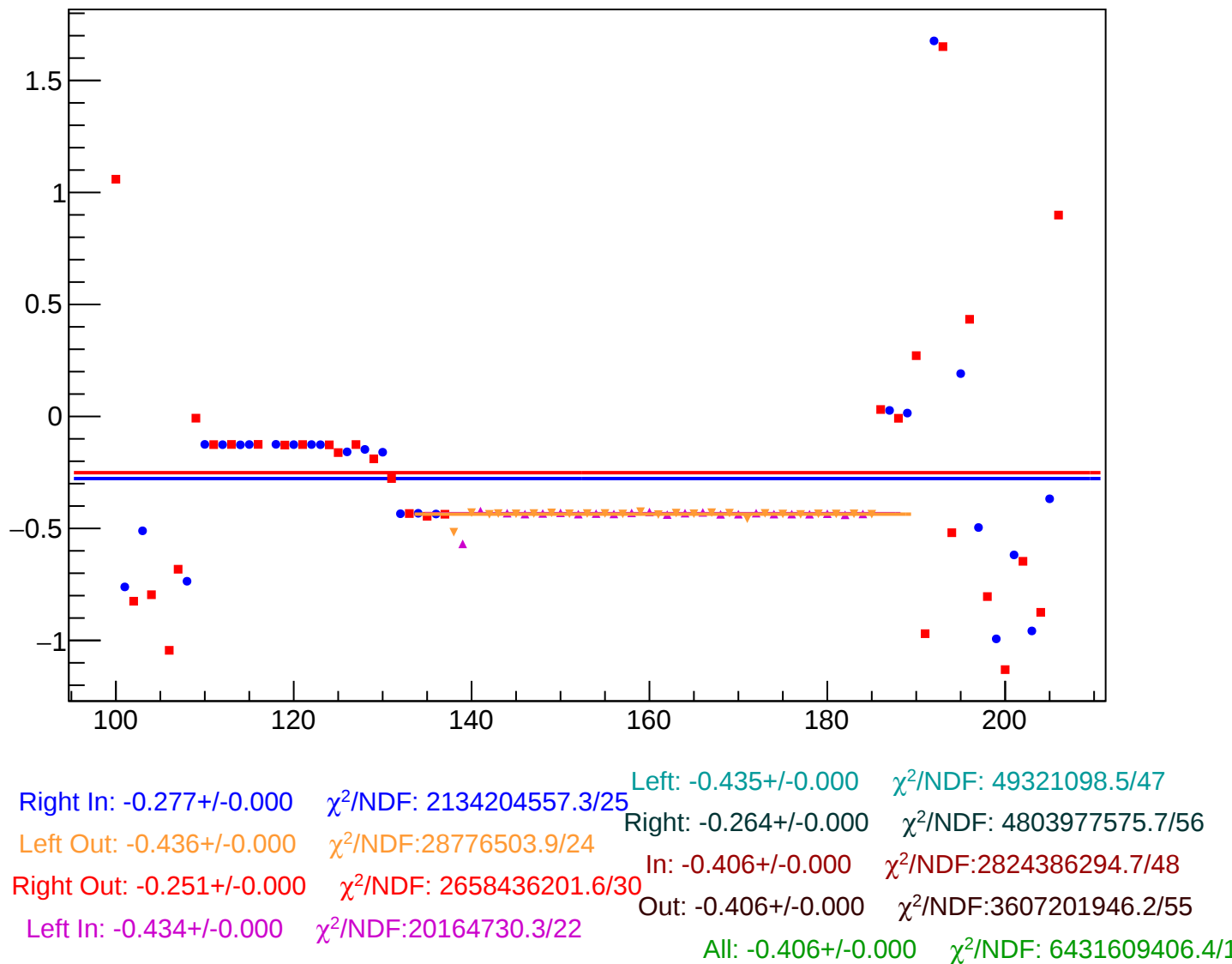
Right: 0.008+/-0.000 χ^2/NDF : 5848241.8/56

In: 0.008+/-0.000 χ^2/NDF : 4503993.1/48

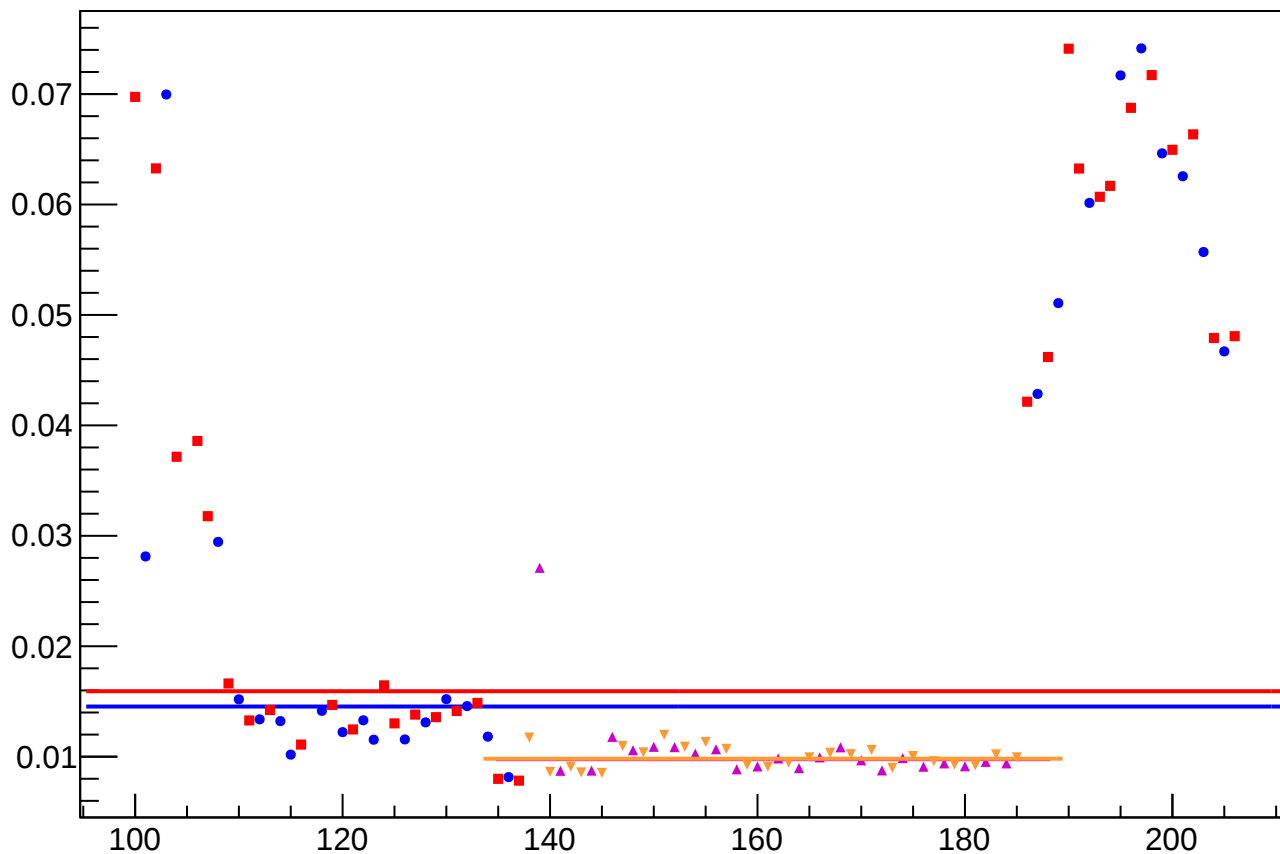
Out: 0.009+/-0.000 χ^2/NDF : 4875670.6/55

All: 0.008+/-0.000 χ^2/NDF : 9387527.9/104

yield_bpm16X_mean vs Slug, Sign Corrected



yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2/NDF : 8972192.4/25

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :271172.3/24

Right Out: 0.016 $\pm$ 0.000 χ^2/NDF : 10613999.7/30

Left In: 0.010 $\pm$ 0.000 χ^2/NDF :786577.8/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 1058038.1/47

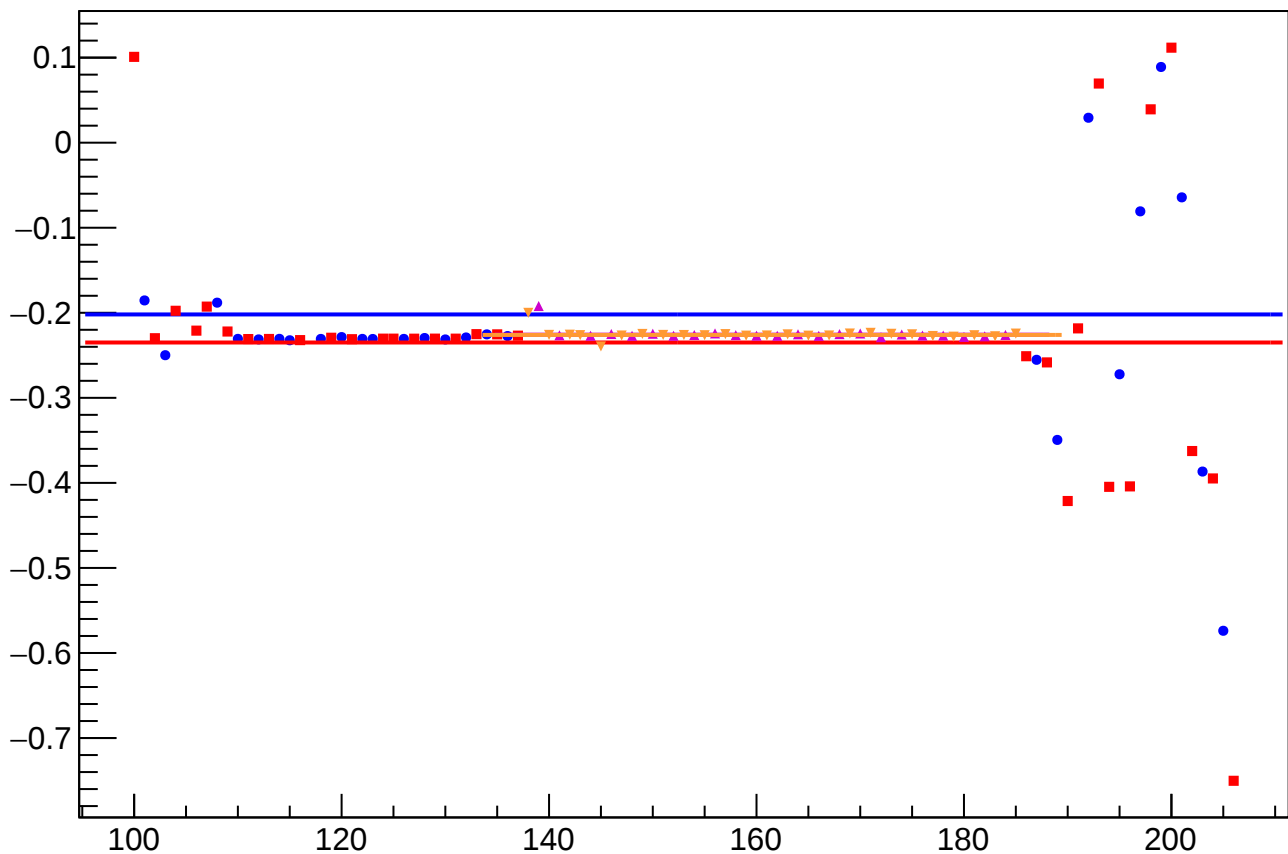
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 19648907.8/56

In: 0.011 $\pm$ 0.000 χ^2/NDF :11001538.5/48

Out: 0.011 $\pm$ 0.000 χ^2/NDF :12890255.4/55

All: 0.011 $\pm$ 0.000 χ^2/NDF : 23899577.0/104

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.202+/-0.000

χ^2/NDF : 7647089190.3/25

Left: -0.226+/-0.000

χ^2/NDF : 34951372.2/47

Left Out: -0.226+/-0.000

χ^2/NDF : 21207366.3/24

Right: -0.219+/-0.000

χ^2/NDF : 21371558664.8/56

Right Out: -0.235+/-0.000

χ^2/NDF : 13480422348.4/30

In: -0.216+/-0.000

χ^2/NDF : 7804364109.7/48

Out: -0.230+/-0.000

χ^2/NDF : 13523763945.1/55

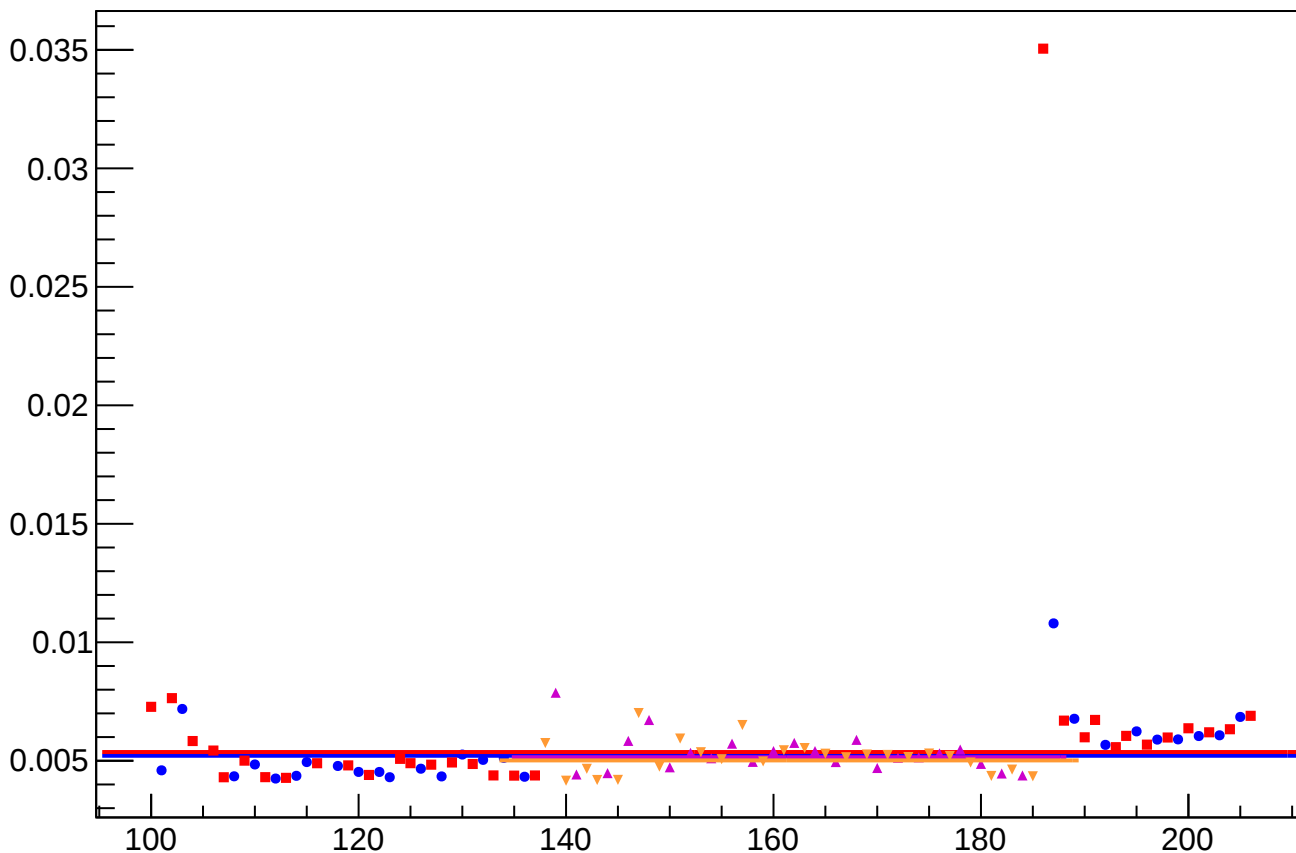
Left In: -0.226+/-0.000

χ^2/NDF : 13717302.5/22

All: -0.223+/-0.000

χ^2/NDF : 21430735957.5/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 693063.7/25

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1256489.5/30

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

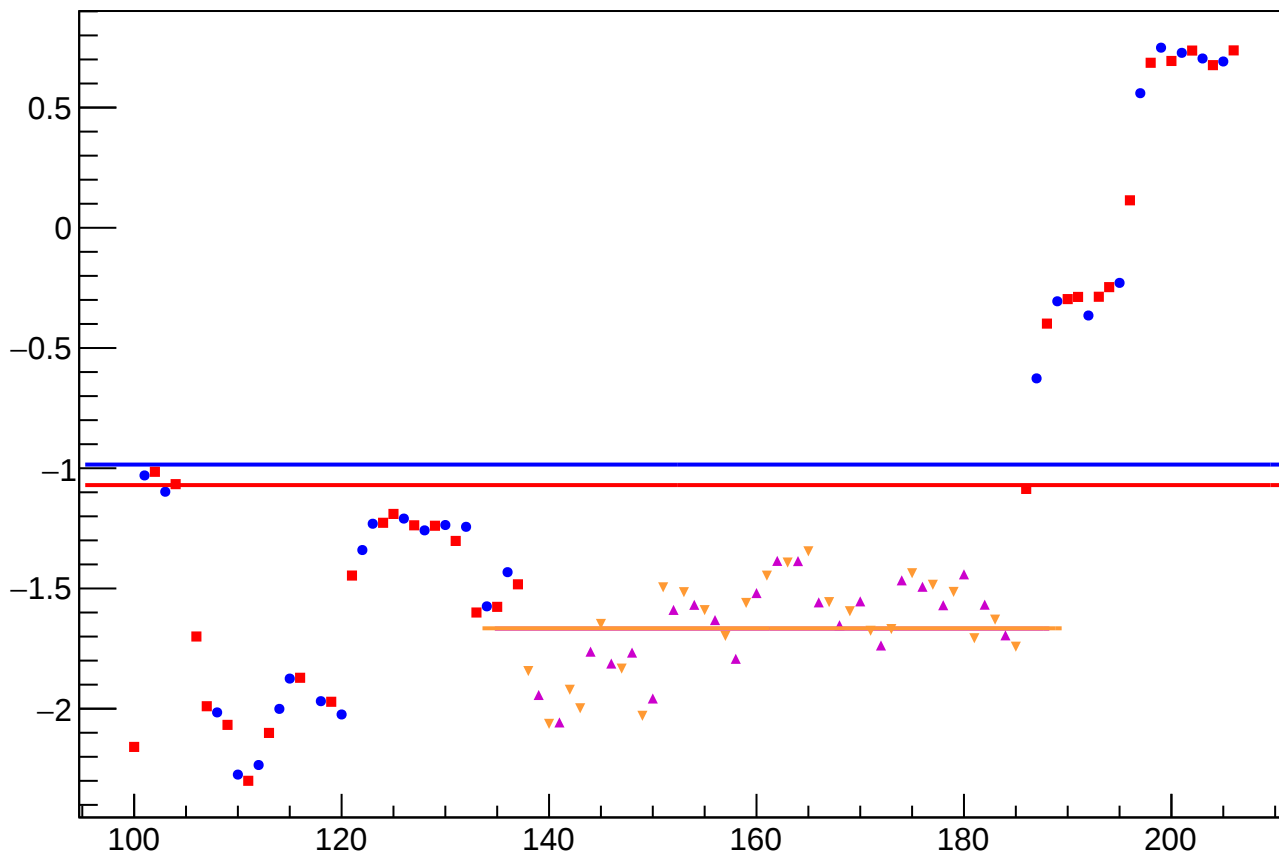
Right: 0.005+/-0.000 χ^2/NDF : 1960582.5/56

In: 0.005+/-0.000 χ^2/NDF : 1199104.8/48

Out: 0.005+/-0.000 χ^2/NDF : 1858499.5/55

All: 0.005+/-0.000 χ^2/NDF : 3057887.2/104

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.985 ± 0.000

$\chi^2/\text{NDF}: 162193337877.7/25$

Left: -1.666 ± 0.000

$\chi^2/\text{NDF}: 32983827631.4/47$

Left Out: -1.666 ± 0.000

$\chi^2/\text{NDF}: 18368038680.8/24$

Right: -1.032 ± 0.000

$\chi^2/\text{NDF}: 364609385336.0/56$

Right Out: -1.070 ± 0.000

$\chi^2/\text{NDF}: 201641560046.2/30$

In: -1.449 ± 0.000

$\chi^2/\text{NDF}: 238224142272.3/48$

Out: -1.458 ± 0.000

$\chi^2/\text{NDF}: 274527590308.2/55$

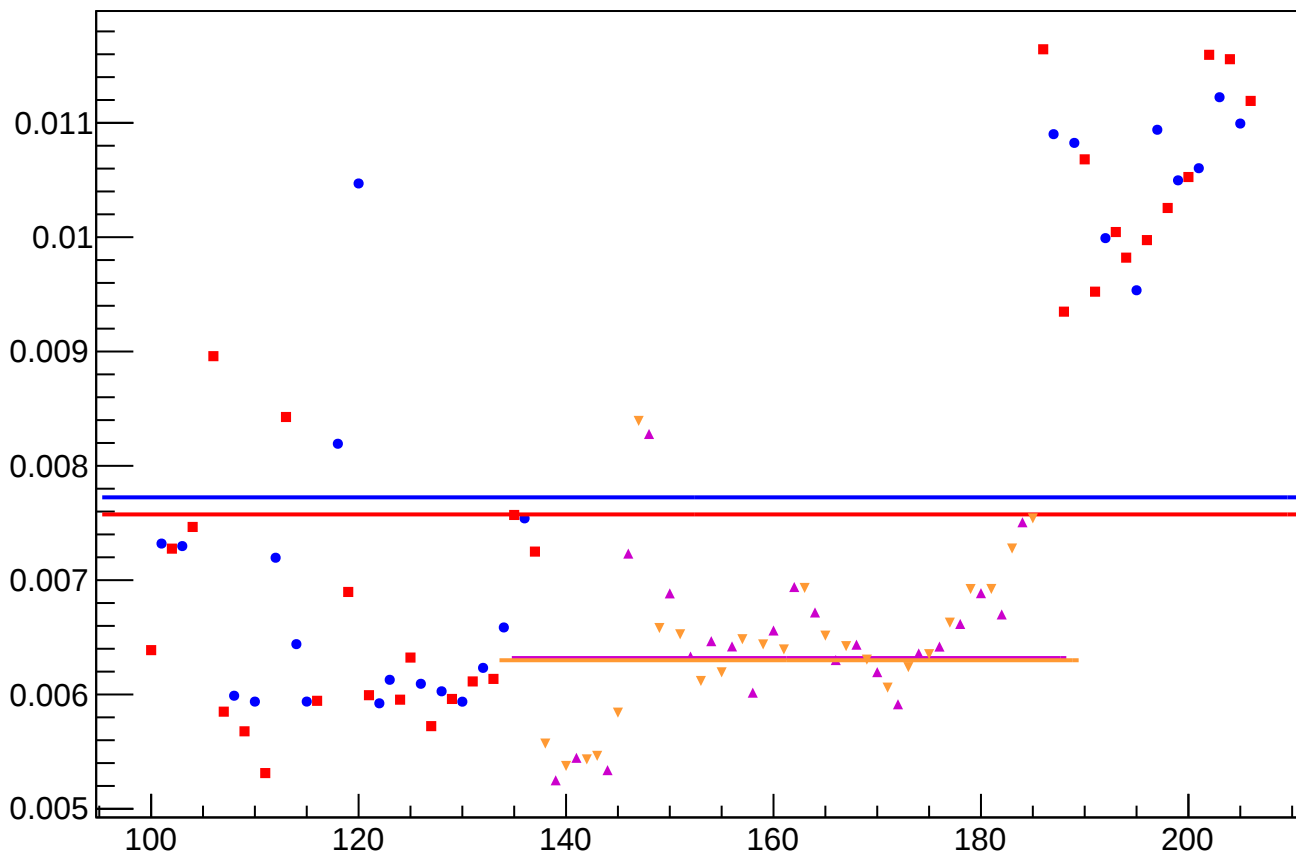
Left In: -1.667 ± 0.000

$\chi^2/\text{NDF}: 14615453869.3/22$

All: -1.454 ± 0.000

$\chi^2/\text{NDF}: 512778254029.4$

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1426807.7/25

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1913384.5/30

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

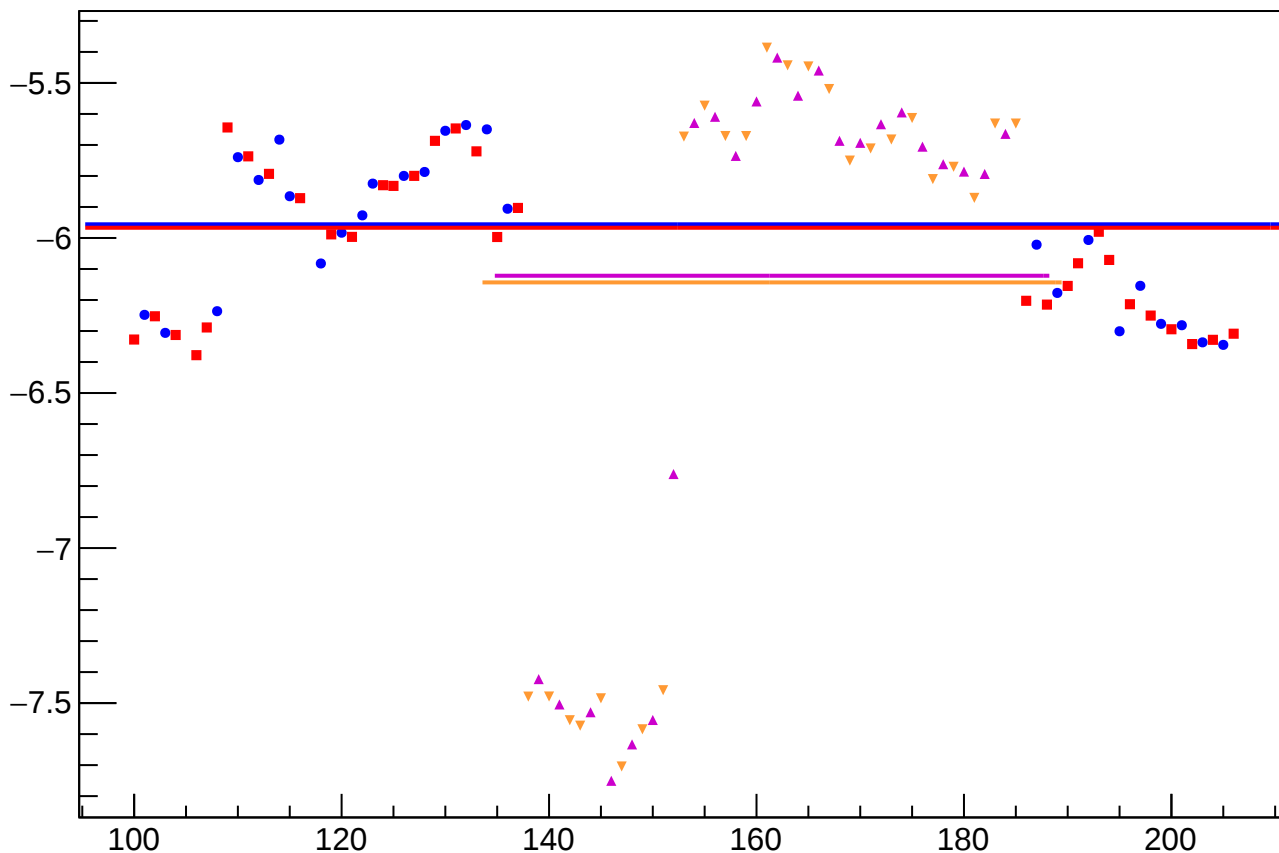
Right: 0.008+/-0.000 χ^2/NDF : 3344939.4/56

In: 0.007+/-0.000 χ^2/NDF :2282646.5/48

Out: 0.007+/-0.000 χ^2/NDF :2726309.2/55

All: 0.007+/-0.000 χ^2/NDF : 5009319.1/104

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.956+/-0.000

χ^2/NDF : 14489103800.6/25

Left: -6.133+/-0.000

χ^2/NDF : 345689393988.1/47

Left Out: -6.143+/-0.000

χ^2/NDF : 185721259239.3/24

Right: -5.962+/-0.000

χ^2/NDF : 30855010149.6/56

Right Out: -5.967+/-0.000

χ^2/NDF : 16350328651.2/30

In: -6.041+/-0.000

χ^2/NDF : 177732696299.1/48

Out: -6.053+/-0.000

χ^2/NDF : 206155668894.5/55

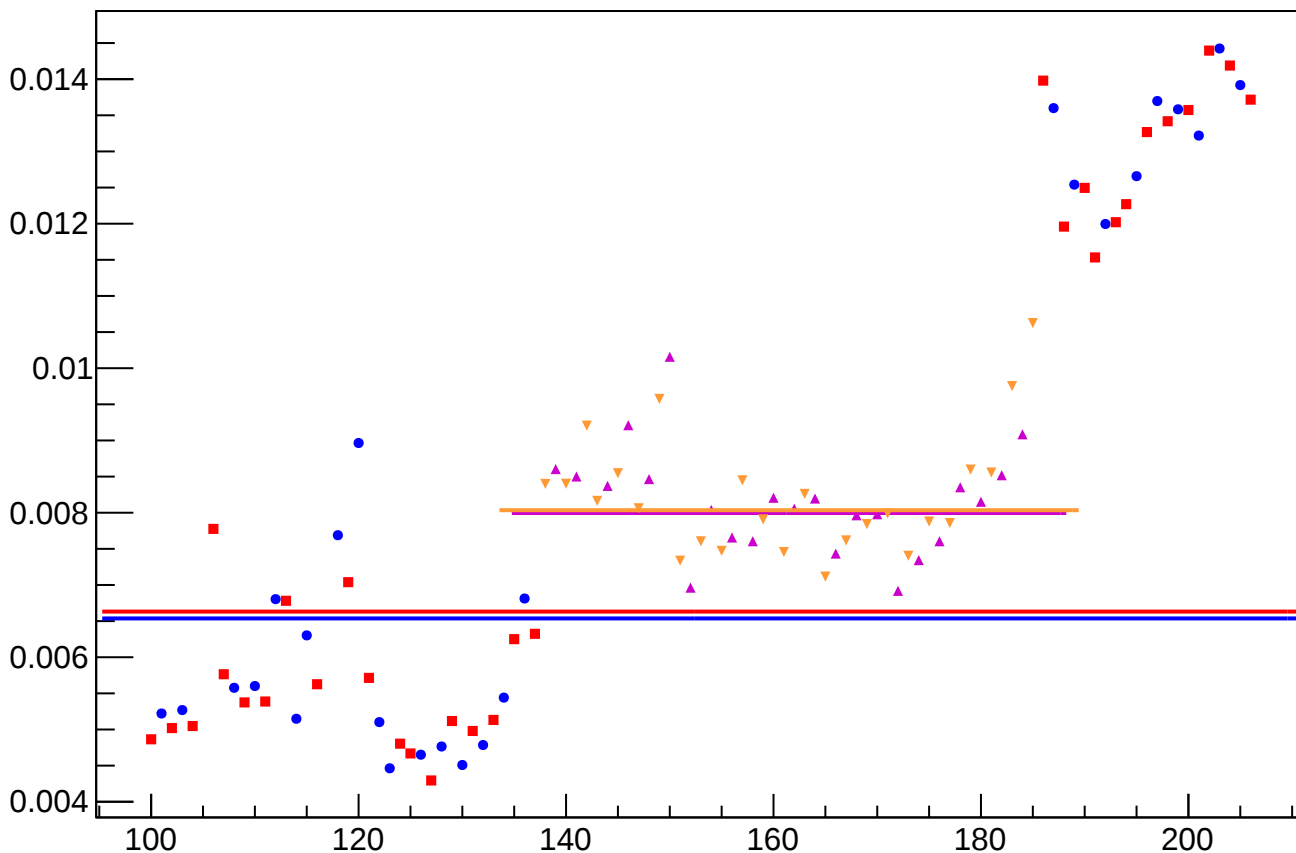
Left In: -6.122+/-0.000

χ^2/NDF : 159909473006.6/22

All: -6.047+/-0.000

χ^2/NDF : 383926829411.4

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4002119.9/25

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4729155.4/30

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

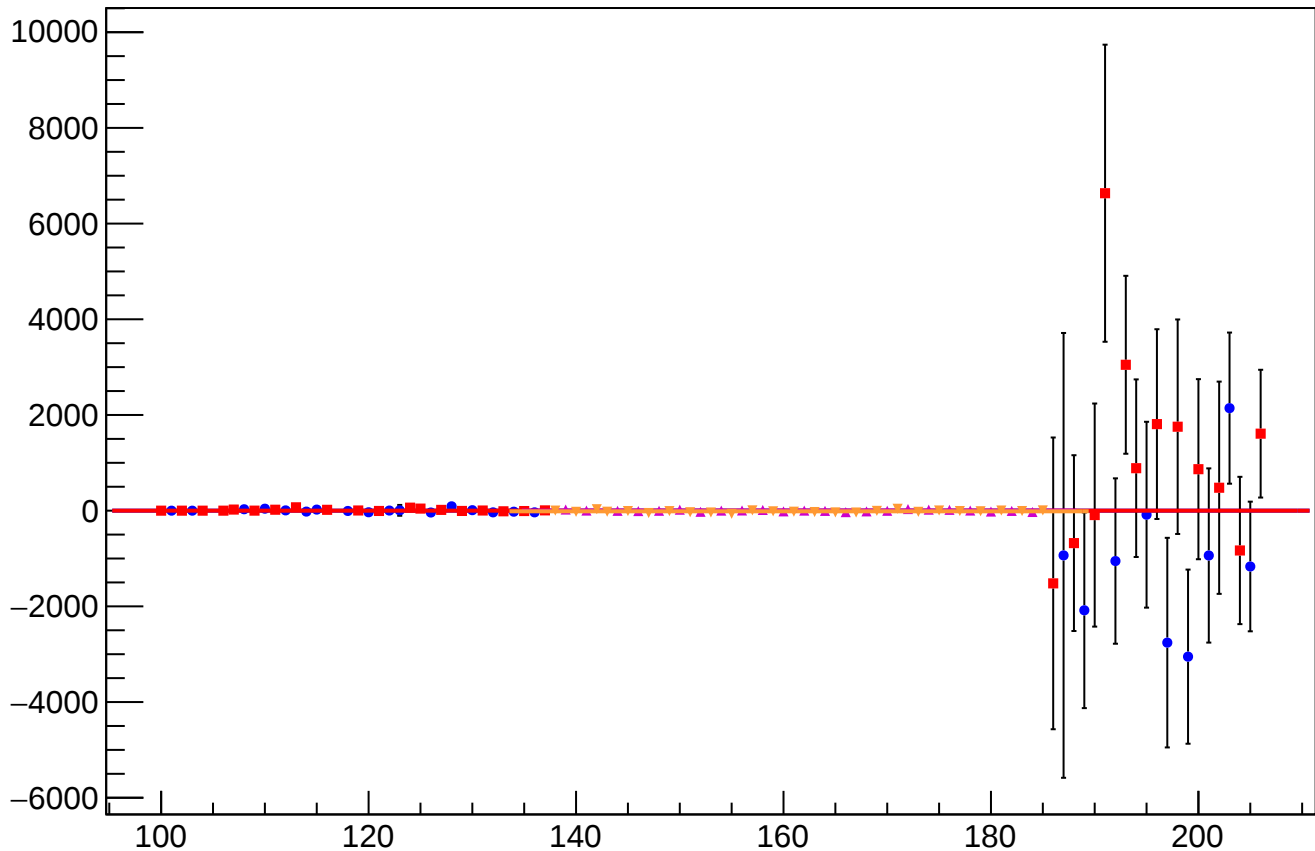
Right: 0.007+/-0.000 χ^2/NDF : 8733541.1/56

In: 0.007+/-0.000 χ^2/NDF :4738277.2/48

Out: 0.007+/-0.000 χ^2/NDF :5452523.6/55

All: 0.007+/-0.000 χ^2/NDF : 10191360.7/104

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 25.0/25$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 26.3/30$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

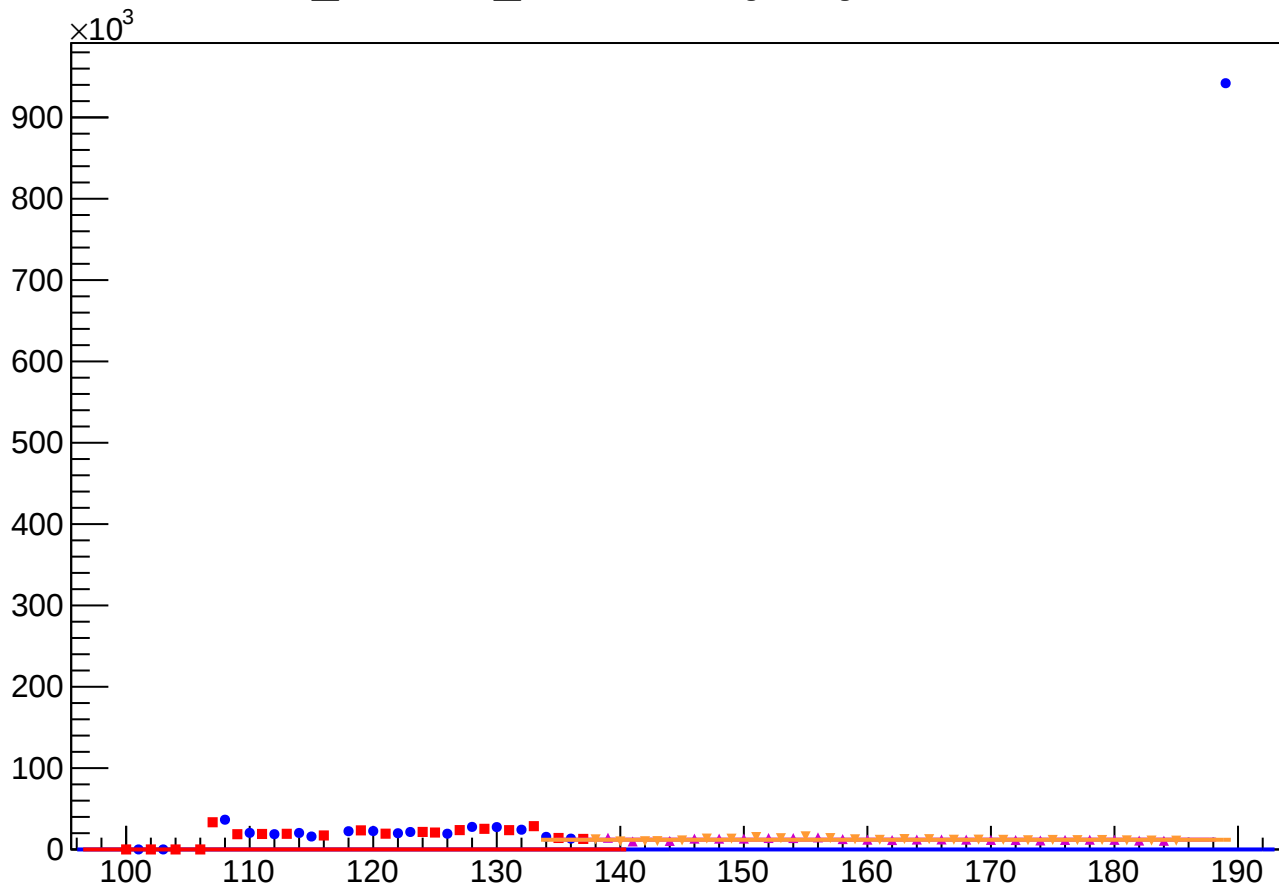
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 51.7/56$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 53.7/48$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 107.9/55$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 162.1/104$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.640 $\pm$ 0.012 χ^2 /NDF: 10982766.4/17

Left Out: 11909.835 $\pm$ 1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11056055.0/18

Left In: 12064.321 $\pm$ 2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125 $\pm$ 1.425 χ^2 /NDF: 850831.6/47

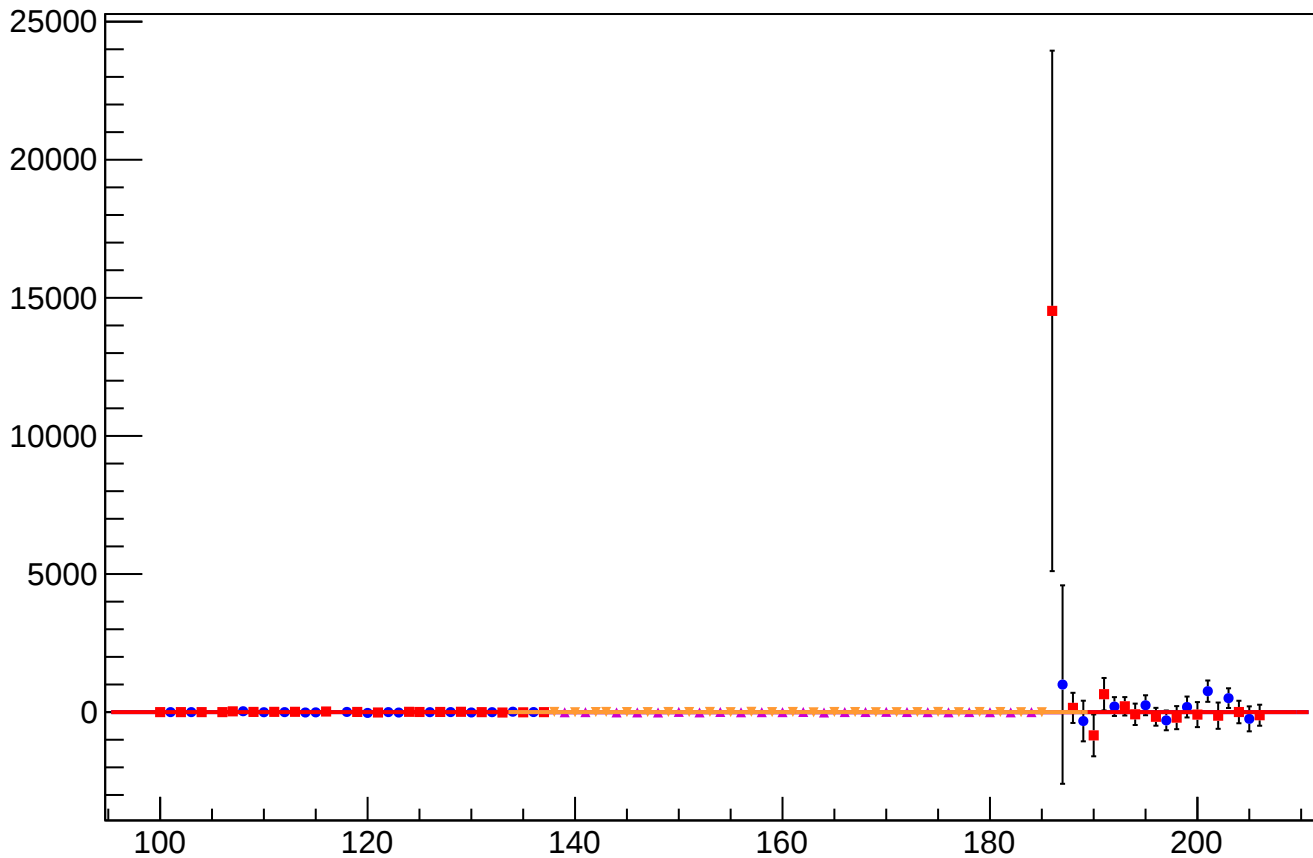
Right: 18.463 $\pm$ 0.008 χ^2 /NDF: 22039209.8/36

In: 19.069 $\pm$ 0.012 χ^2 /NDF: 45733258.4/40

Out: 18.704 $\pm$ 0.011 χ^2 /NDF: 47698495.9/43

All: 18.873 $\pm$ 0.008 χ^2 /NDF: 93432232.0/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 22.8/25

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF: 17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 24.7/30

Left In: -0.843 $\pm$ 1.043 χ^2 /NDF: 35.7/22

Left: 0.443 $\pm$ 0.730 χ^2 /NDF: 56.5/47

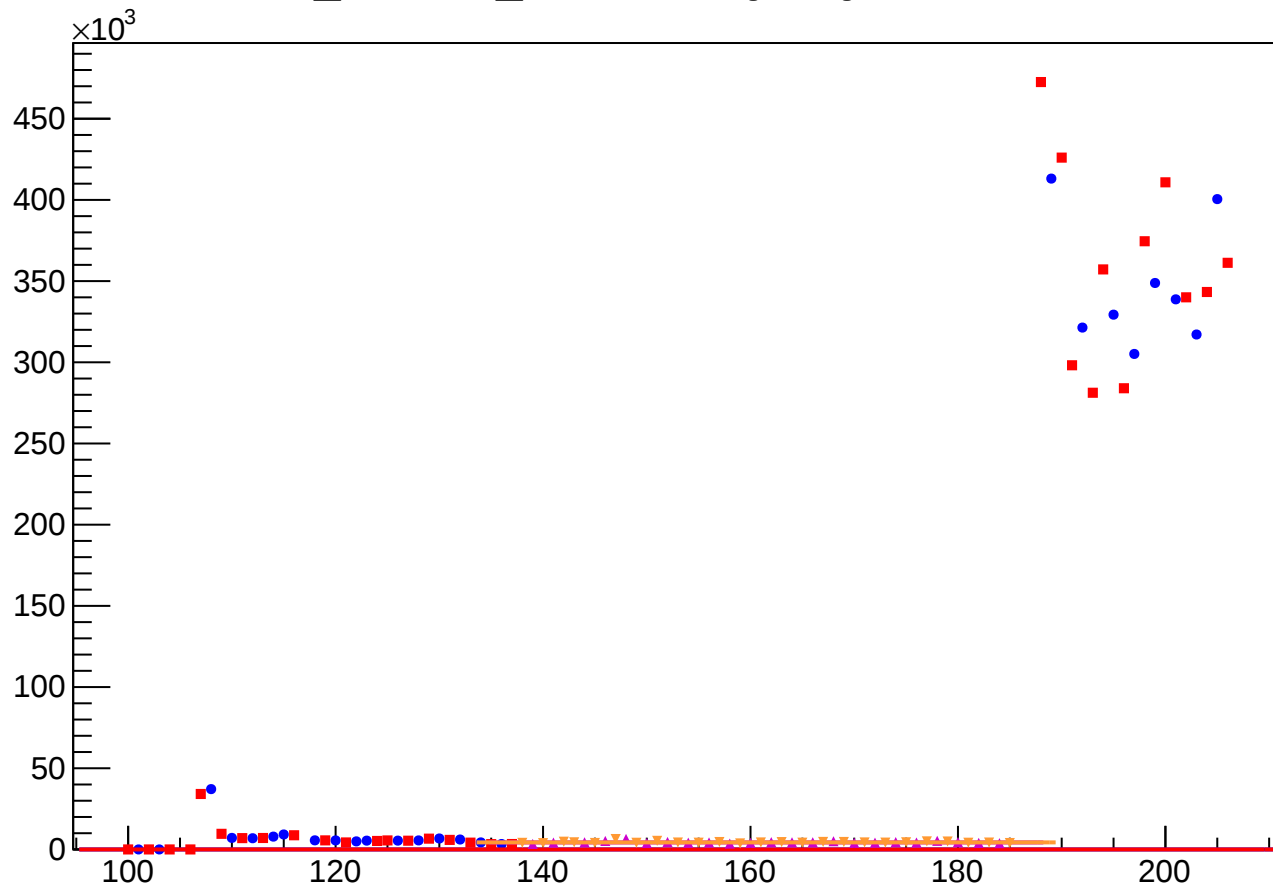
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 48.9/56

In: 0.001 $\pm$ 0.009 χ^2 /NDF: 59.1/48

Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 45.3/55

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 105.8/104

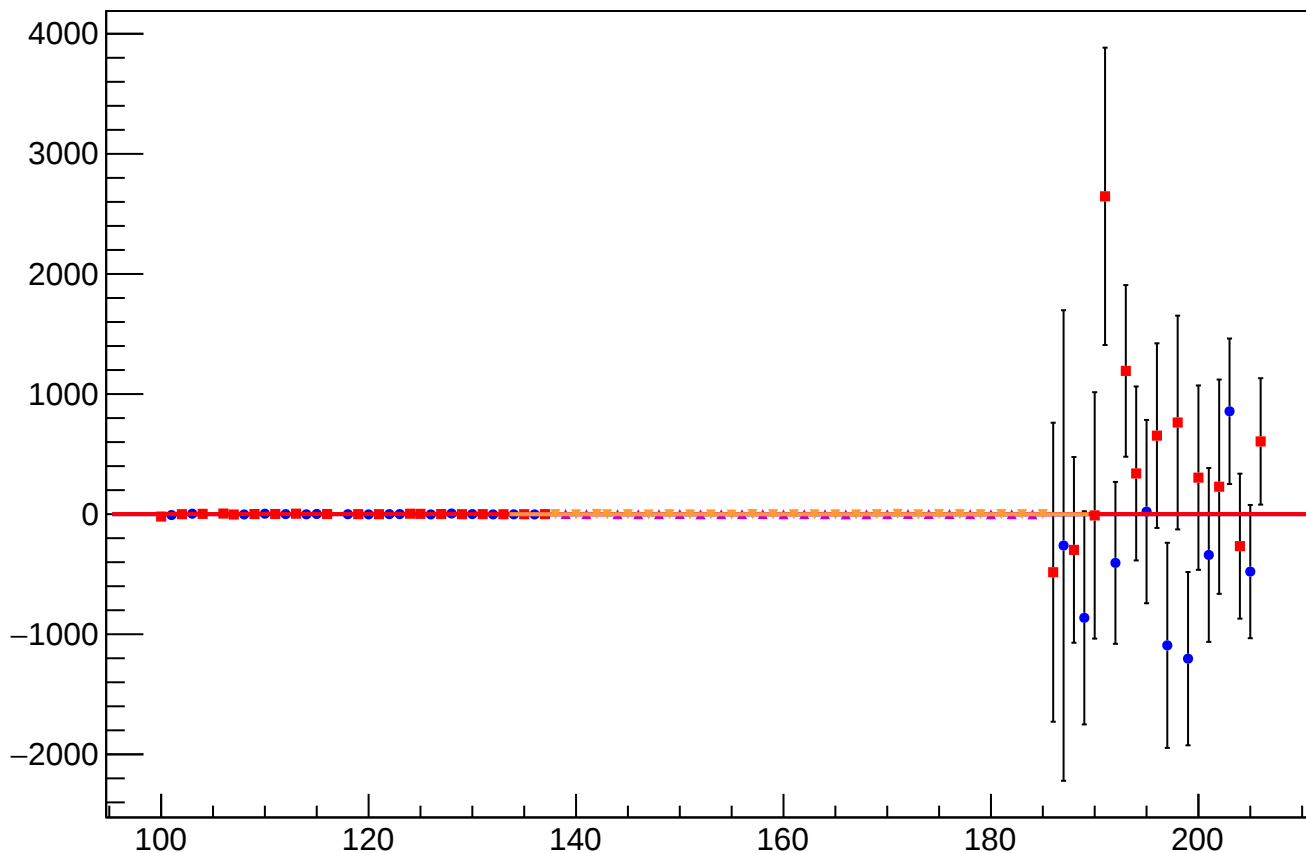
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 ± 0.007 χ^2/NDF : 22815708.1/24
 Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24
 Right Out: 9.855 ± 0.006 χ^2/NDF : 25899222.3/29
 Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47
 Right: 9.895 ± 0.004 χ^2/NDF : 48715018.2/54
 In: 10.274 ± 0.007 χ^2/NDF : 57411717.2/47
 Out: 10.167 ± 0.006 χ^2/NDF : 62428929.2/54
 All: 10.217 ± 0.004 χ^2/NDF : 119840790.2/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.703 ± 0.485 χ^2/NDF : 31.2/25

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.762 ± 0.502 χ^2/NDF : 22.8/30

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

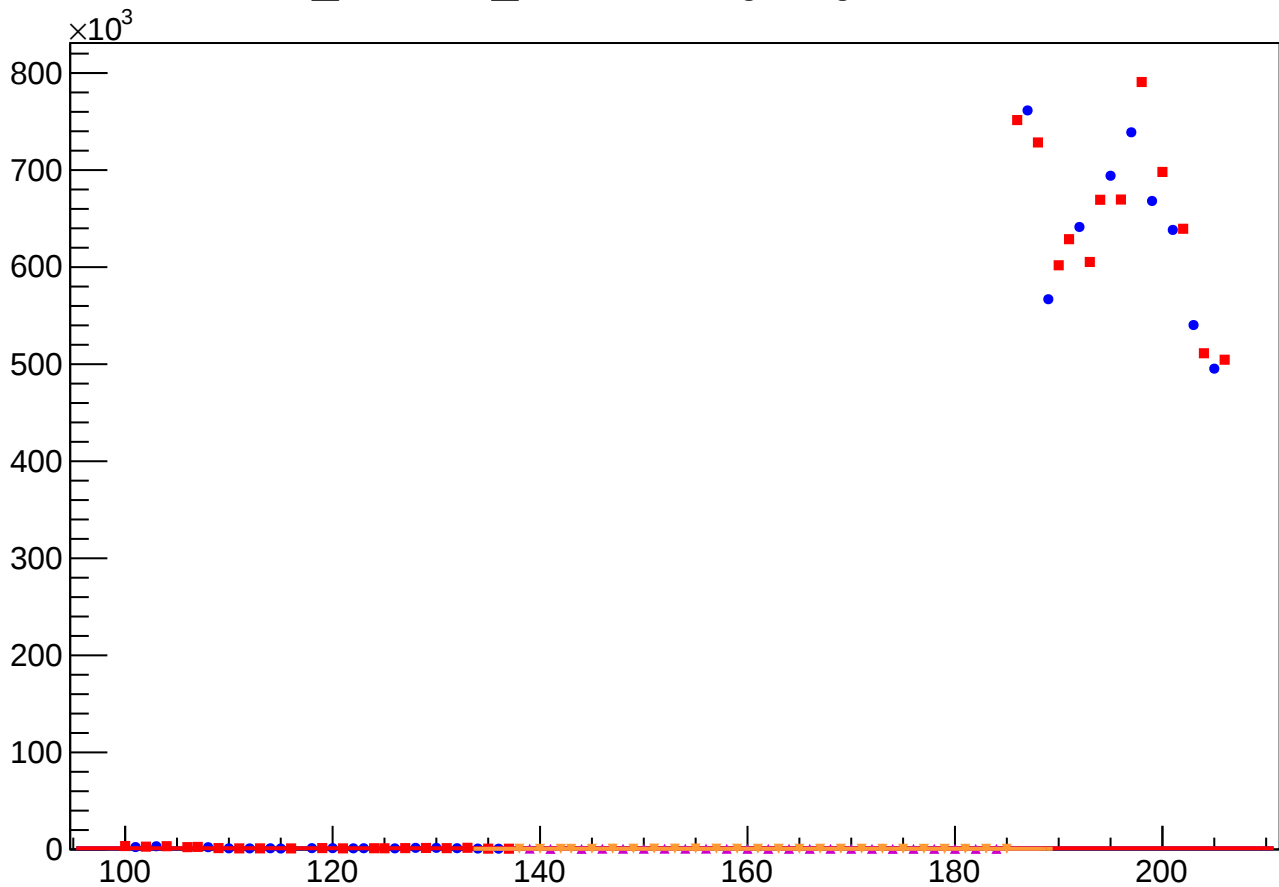
Right: 0.004 ± 0.349 χ^2/NDF : 58.4/56

In: -0.059 ± 0.161 χ^2/NDF : 62.4/48

Out: -0.626 ± 0.156 χ^2/NDF : 89.7/55

All: -0.350 ± 0.112 χ^2/NDF : 158.5/104

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1166.586 $\pm$ 0.343 χ^2/NDF : 14068568.1/25

Left Out: 700.797 $\pm$ 0.116 χ^2/NDF : 392521.4/24

Right Out: 1252.399 $\pm$ 0.355 χ^2/NDF : 17394789.0/30

Left In: 706.950 $\pm$ 0.120 χ^2/NDF : 338177.1/22

Left: 703.766 $\pm$ 0.084 χ^2/NDF : 732052.1/47

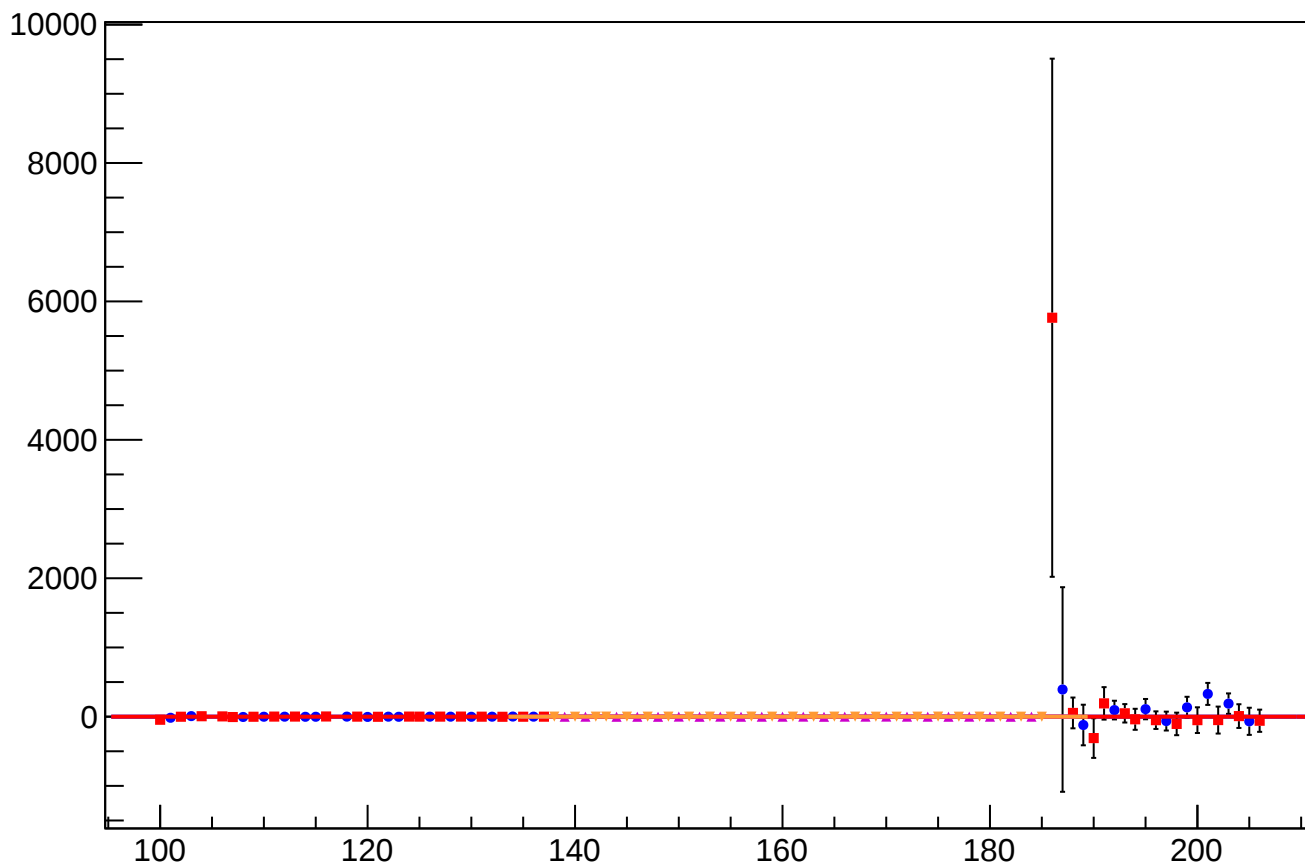
Right: 1208.008 $\pm$ 0.247 χ^2/NDF : 31493578.6/56

In: 757.304 $\pm$ 0.114 χ^2/NDF : 16006155.9/48

Out: 754.150 $\pm$ 0.110 χ^2/NDF : 19967704.7/55

All: 755.684 $\pm$ 0.079 χ^2/NDF : 35974257.3/103

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.057 ± 0.271 χ^2/NDF : 29.2/25

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.245 ± 0.265 χ^2/NDF : 26.0/30

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

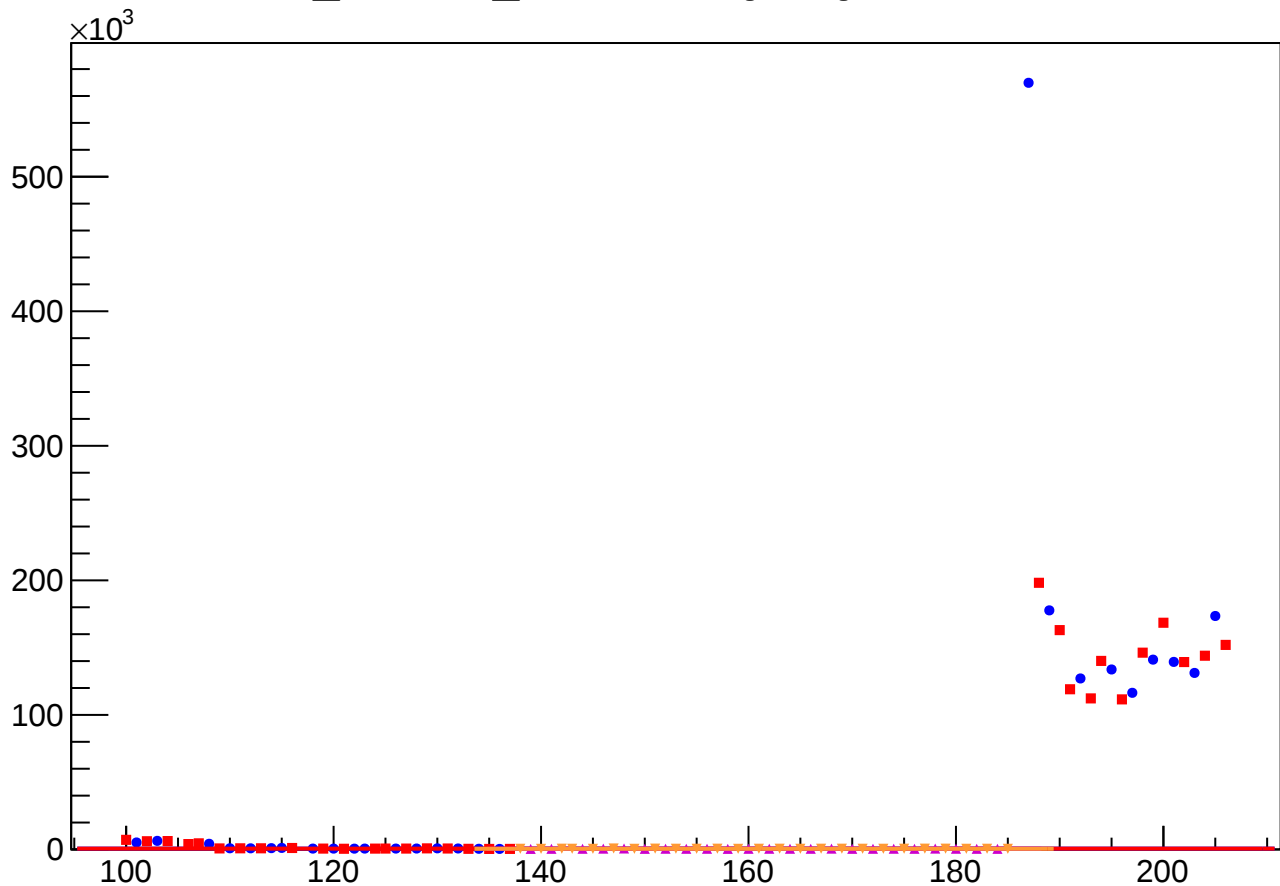
Right: -0.153 ± 0.189 χ^2/NDF : 55.5/56

In: -0.105 ± 0.114 χ^2/NDF : 64.2/48

Out: 0.151 ± 0.111 χ^2/NDF : 46.3/55

All: 0.026 ± 0.080 χ^2/NDF : 113.1/104

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 611.785 $\pm$ 0.191 χ^2/NDF : 15340310.6/25

Left Out: 522.416 $\pm$ 0.087 χ^2/NDF : 331573.1/24

Right Out: 603.374 $\pm$ 0.187 χ^2/NDF : 18335977.4/29

Left In: 519.909 $\pm$ 0.089 χ^2/NDF : 444746.3/22

Left: 521.193 $\pm$ 0.062 χ^2/NDF : 776728.3/47

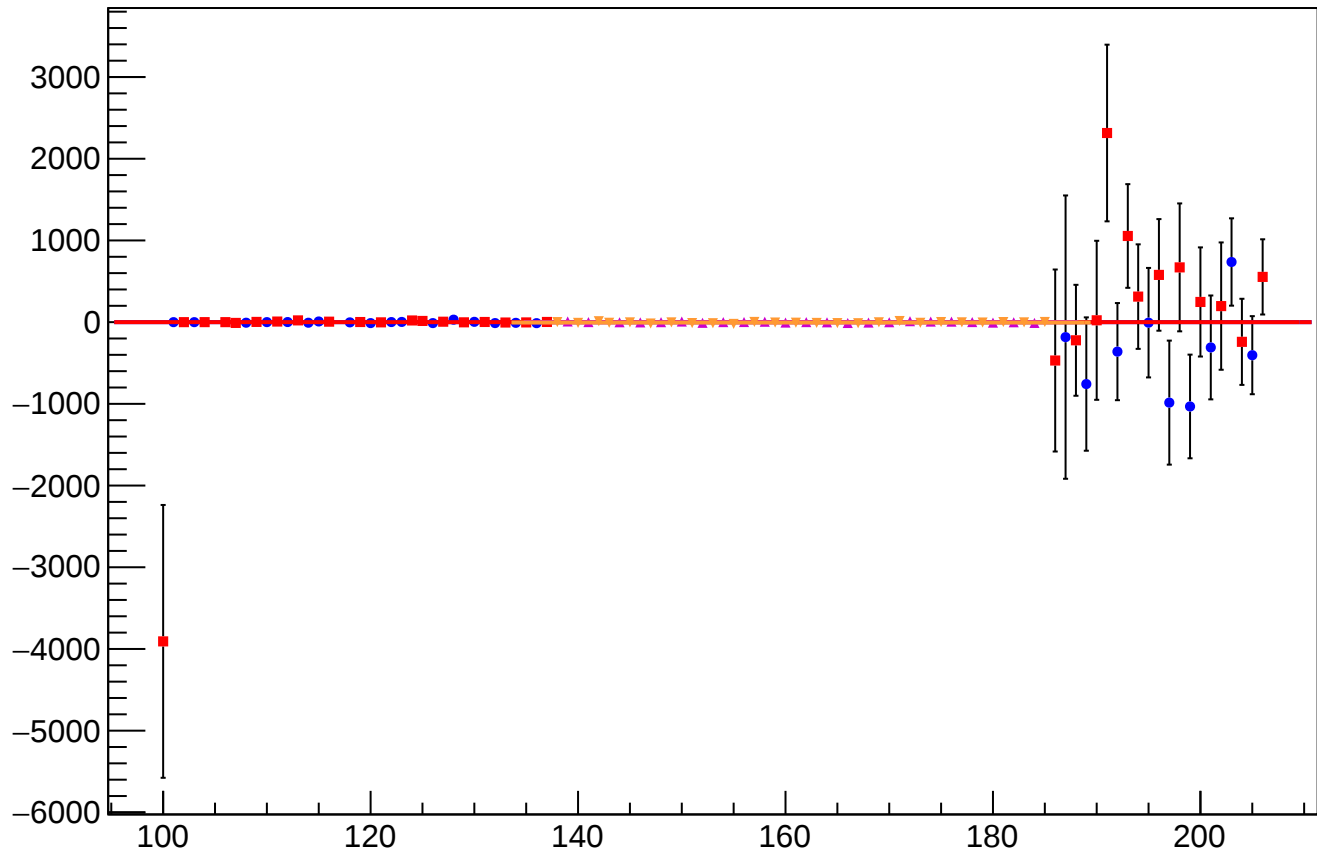
Right: 607.490 $\pm$ 0.134 χ^2/NDF : 33677275.2/55

In: 536.175 $\pm$ 0.081 χ^2/NDF : 15974848.3/48

Out: 536.680 $\pm$ 0.079 χ^2/NDF : 18821503.0/54

All: 536.434 $\pm$ 0.056 χ^2/NDF : 34796371.5/10

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 $\chi^2/\text{NDF}: 24.1/25$

Left Out: -4.474 ± 0.956 $\chi^2/\text{NDF}: 58.2/24$

Right Out: 0.027 ± 0.020 $\chi^2/\text{NDF}: 28.0/30$

Left In: 0.193 ± 0.990 $\chi^2/\text{NDF}: 29.2/22$

Left: -2.224 ± 0.688 $\chi^2/\text{NDF}: 99.0/47$

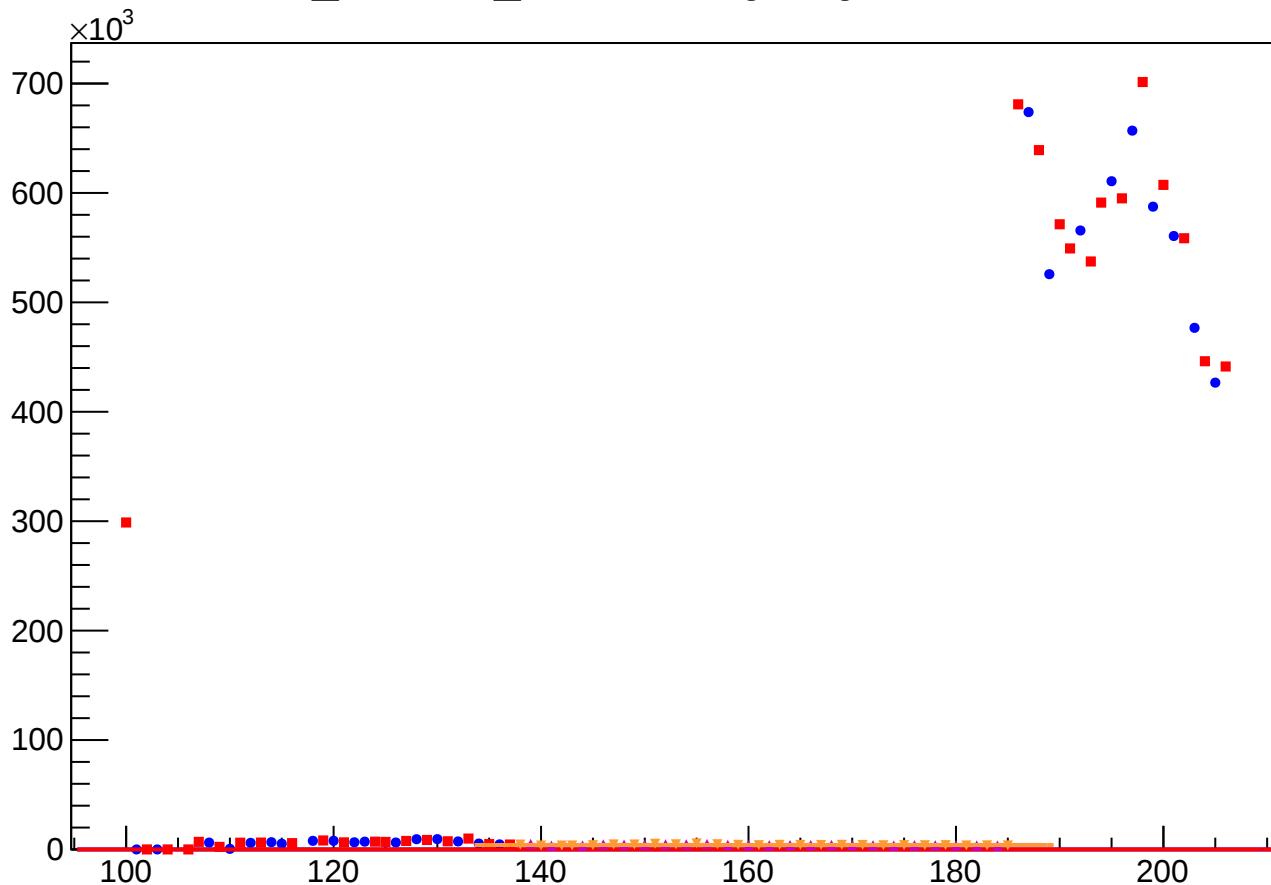
Right: 0.004 ± 0.014 $\chi^2/\text{NDF}: 54.9/56$

In: -0.022 ± 0.021 $\chi^2/\text{NDF}: 53.3/48$

Out: 0.025 ± 0.020 $\chi^2/\text{NDF}: 108.4/55$

All: 0.003 ± 0.014 $\chi^2/\text{NDF}: 164.3/104$

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.340+/-0.015 χ^2/NDF : 22874575.3/25

Left Out: 4074.257+/-0.676 χ^2/NDF : 416916.0/24

Right Out: 17.273+/-0.014 χ^2/NDF : 26683658.8/30

Left In: 4113.744+/-0.700 χ^2/NDF : 354965.8/22

Left: 4093.298+/-0.486 χ^2/NDF : 773528.6/47

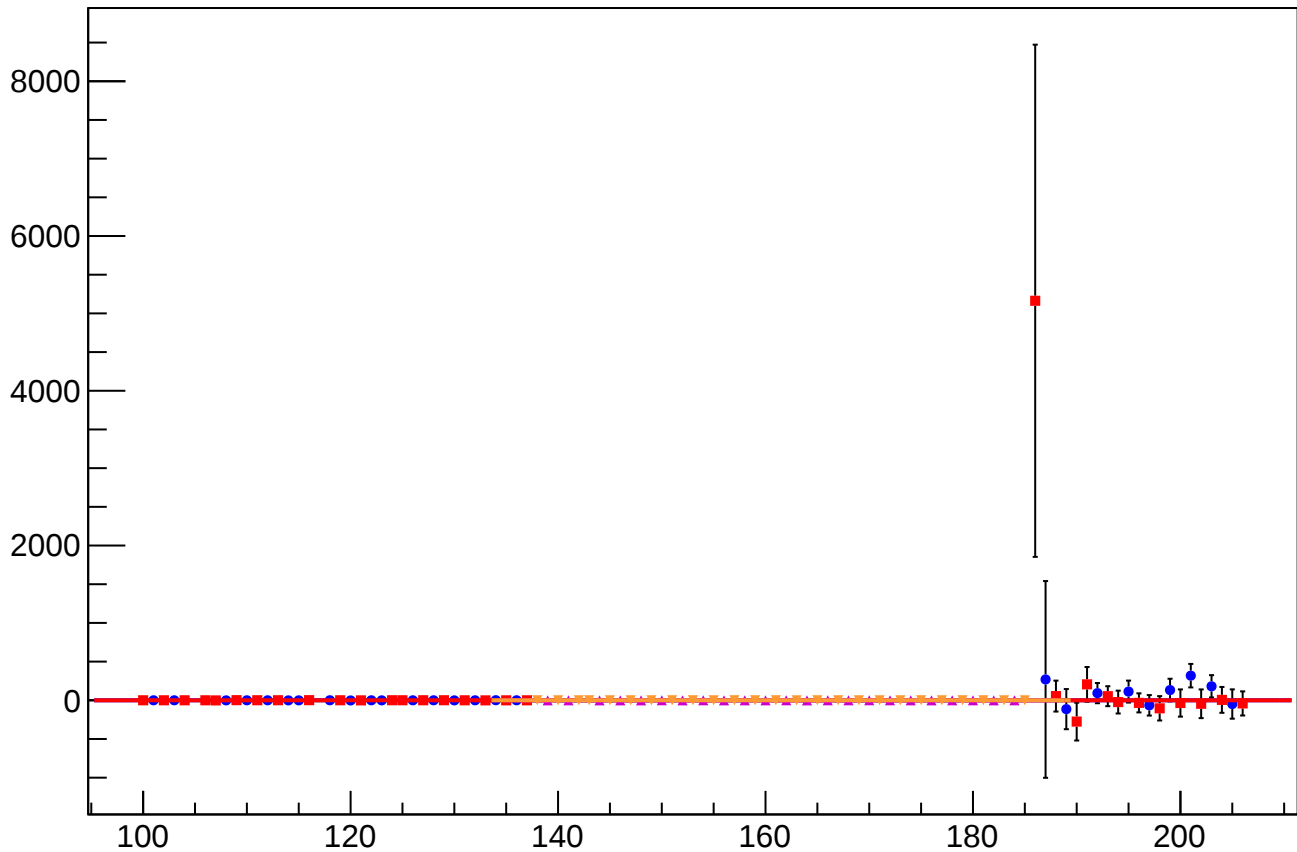
Right: 17.305+/-0.010 χ^2/NDF : 49558245.3/56

In: 19.146+/-0.015 χ^2/NDF : 57443740.7/48

Out: 19.010+/-0.014 χ^2/NDF : 63136556.0/55

All: 19.074+/-0.010 χ^2/NDF : 120580342.0/10

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 23.8/25

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 23.6/30

Left In: -0.075 $\pm$ 0.078 χ^2 /NDF:34.8/22

Left: 0.041 $\pm$ 0.055 χ^2 /NDF: 55.8/47

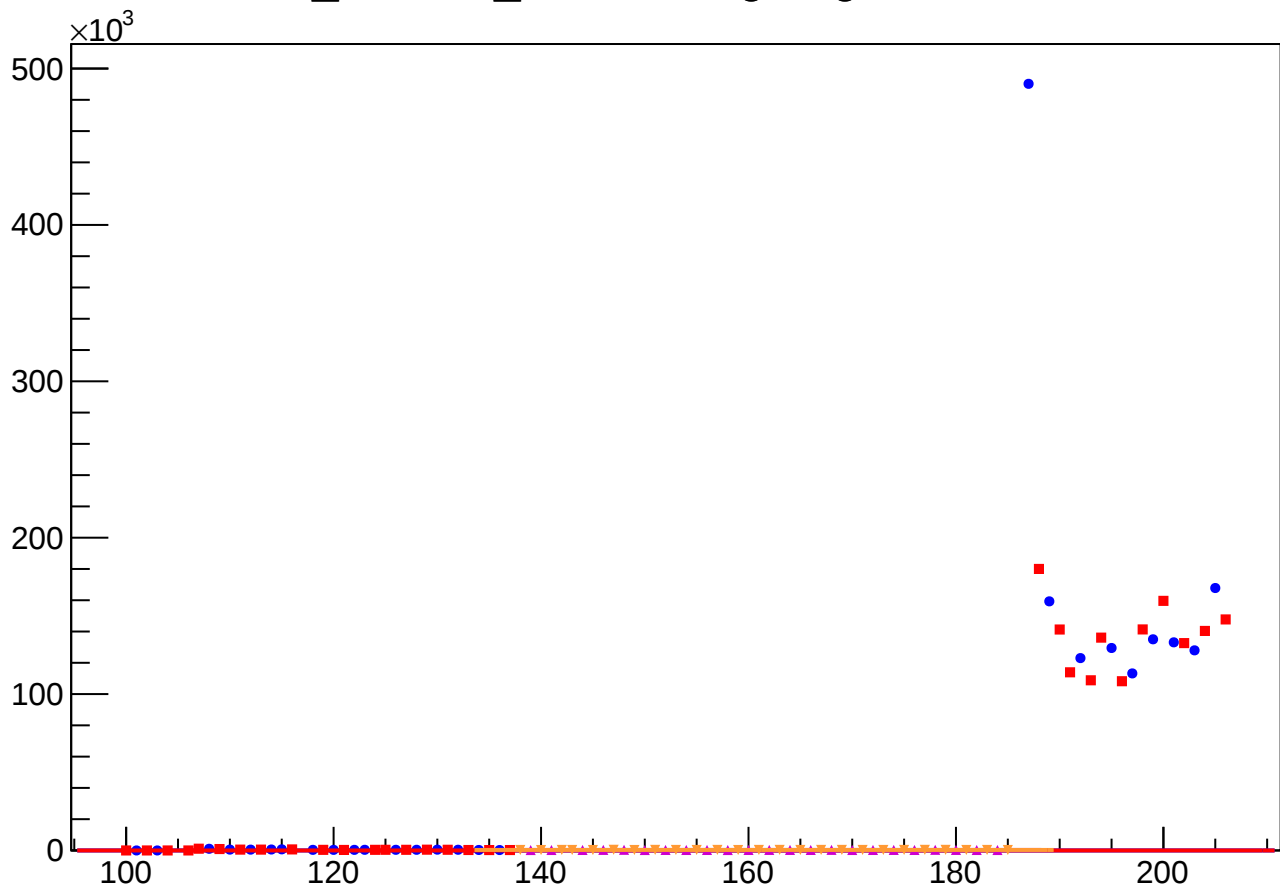
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 47.5/56

In: 0.000 $\pm$ 0.002 χ^2 /NDF:59.5/48

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:44.3/55

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 103.9/104

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2/NDF : 23198624.4/25

Left Out: 325.469 $\pm$ 0.054 χ^2/NDF : 350046.8/24

Right Out: 1.728 $\pm$ 0.001 χ^2/NDF : 25662898.9/29

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

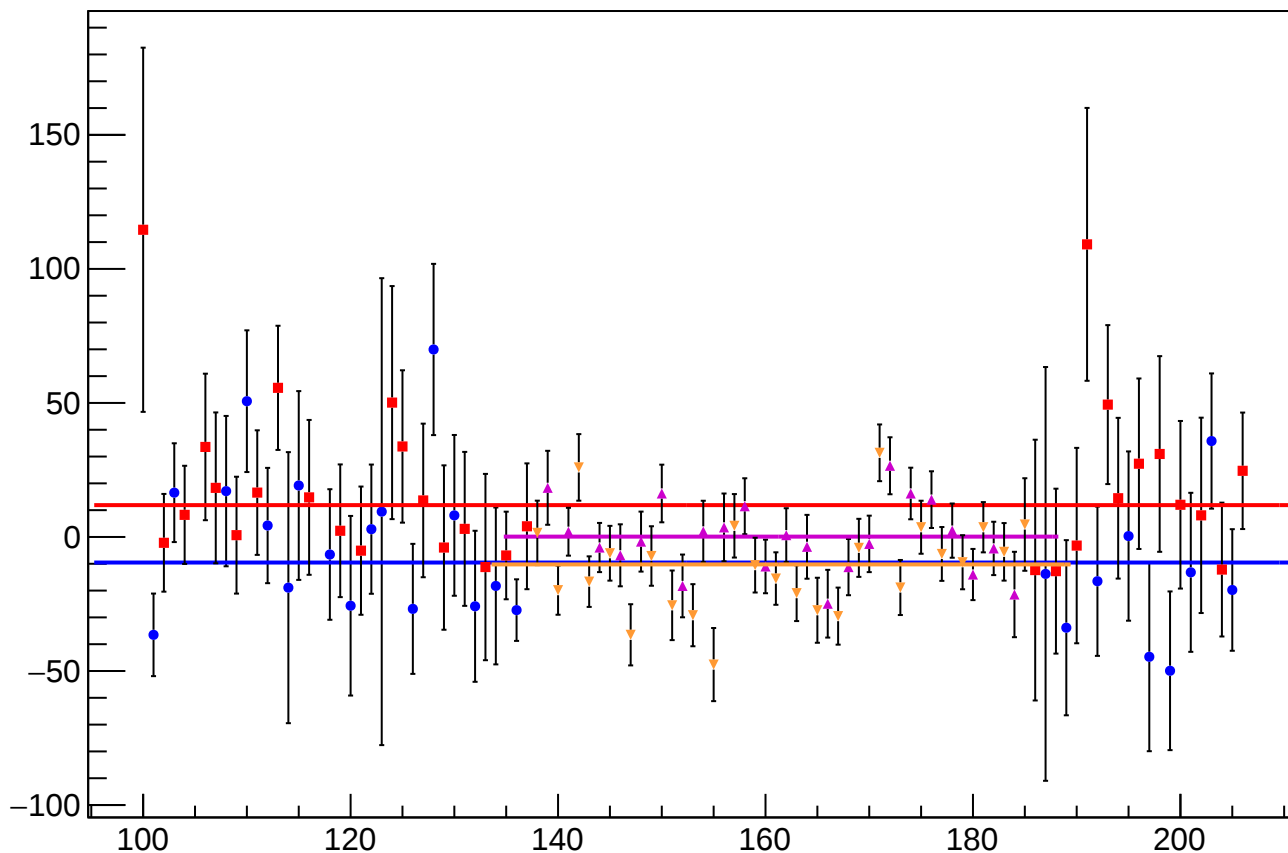
Right: 1.714 $\pm$ 0.001 χ^2/NDF : 48861750.5/55

In: 1.914 $\pm$ 0.001 χ^2/NDF : 57602051.0/48

Out: 1.937 $\pm$ 0.001 χ^2/NDF : 61970706.9/54

All: 1.926 $\pm$ 0.001 χ^2/NDF : 119572895.9/103

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -9.536 ± 4.912 χ^2/NDF : 29.7/25

Left Out: -10.235 ± 2.167 χ^2/NDF : 58.0/24

Right Out: 11.881 ± 4.824 χ^2/NDF : 19.9/30

Left In: 0.130 ± 2.242 χ^2/NDF : 29.8/22

Left: -5.230 ± 1.558 χ^2/NDF : 98.9/47

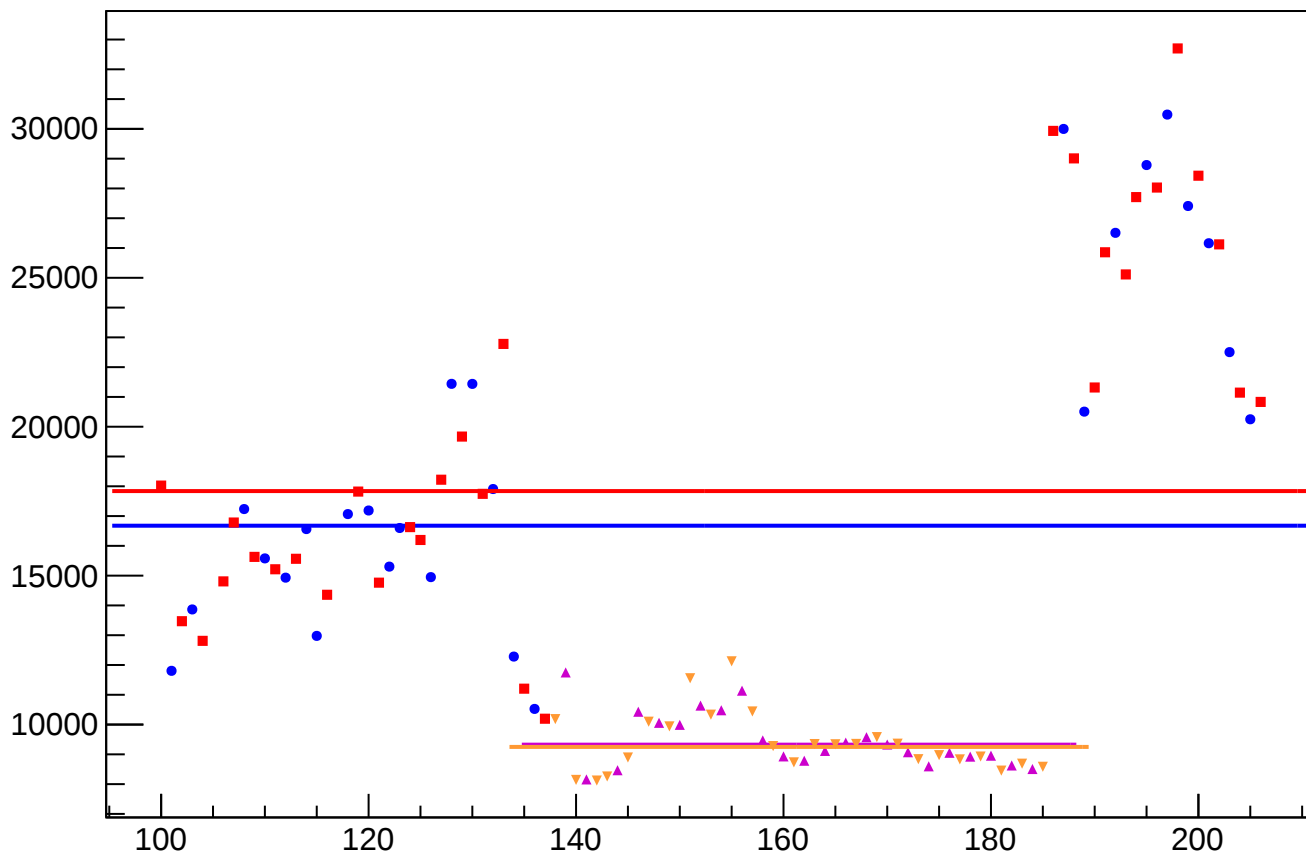
Right: 1.365 ± 3.442 χ^2/NDF : 59.2/56

In: -1.537 ± 2.040 χ^2/NDF : 62.7/48

Out: -6.523 ± 1.976 χ^2/NDF : 95.3/55

All: -4.108 ± 1.419 χ^2/NDF : 161.2/104

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16676.657+/-3.473 χ^2/NDF : 2582704.9/25

Left Out: 9249.358+/-1.532 χ^2/NDF : 332003.4/24

Right Out: 17839.216+/-3.411 χ^2/NDF : 2753747.7/30

Left In: 9325.112+/-1.585 χ^2/NDF : 280927.7/22

Left: 9285.937+/-1.102 χ^2/NDF : 614111.7/47

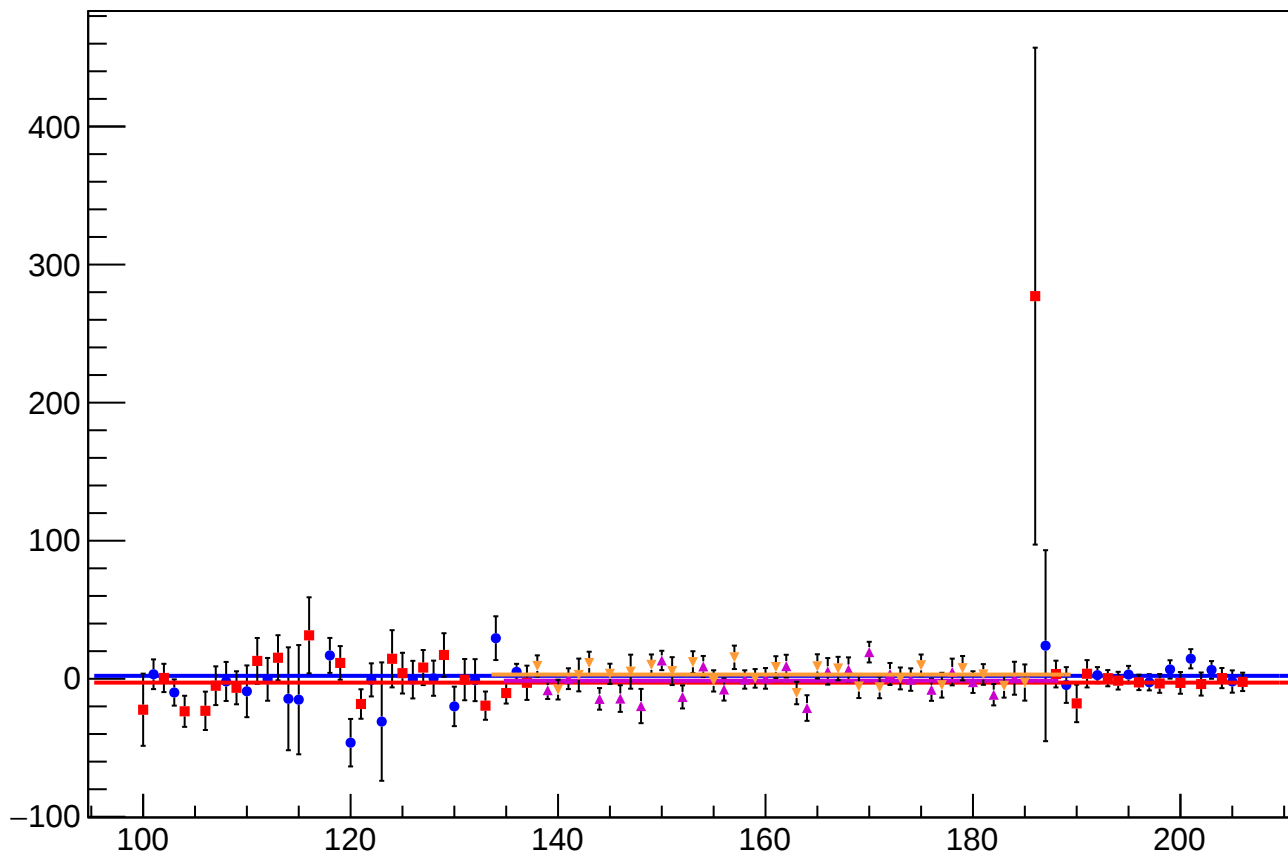
Right: 17268.399+/-2.434 χ^2/NDF : 5393480.6/56

In: 10592.873+/-1.442 χ^2/NDF : 6571242.7/48

Out: 10691.170+/-1.398 χ^2/NDF : 8362299.9/55

All: 10643.570+/-1.004 χ^2/NDF : 14935938.2

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.131 ± 1.897 $\chi^2/\text{NDF}: 23.5/25$

Left Out: 3.062 ± 1.659 $\chi^2/\text{NDF}: 18.3/24$

Right Out: -2.778 ± 1.767 $\chi^2/\text{NDF}: 25.5/30$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

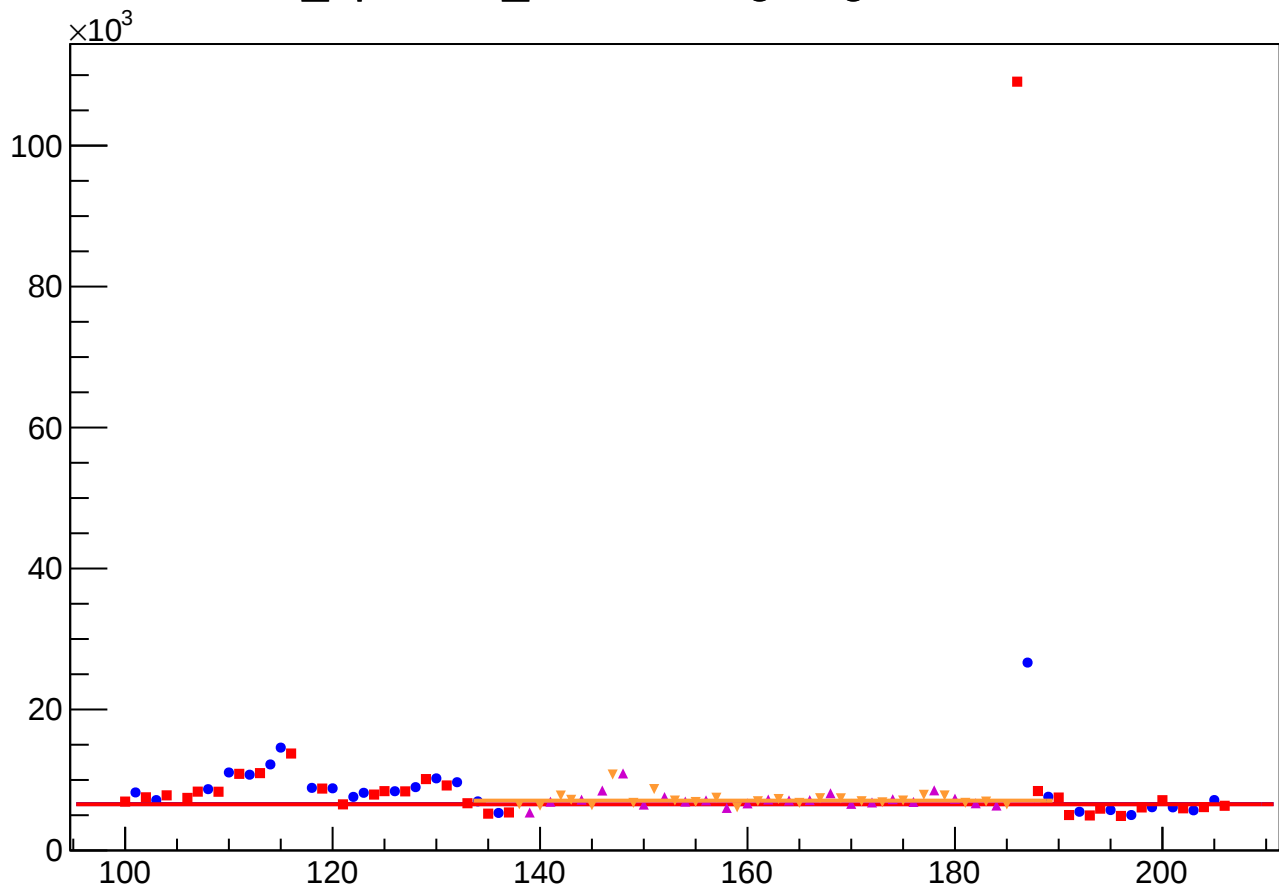
Right: -0.498 ± 1.293 $\chi^2/\text{NDF}: 52.6/56$

In: 0.169 ± 1.263 $\chi^2/\text{NDF}: 60.8/48$

Out: 0.326 ± 1.209 $\chi^2/\text{NDF}: 49.6/55$

All: 0.250 ± 0.874 $\chi^2/\text{NDF}: 110.4/104$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6576.991 $\pm$ 1.342 χ^2/NDF : 1512545.7/25

Left Out: 7066.826 $\pm$ 1.173 χ^2/NDF : 387449.8/24

Right Out: 6554.334 $\pm$ 1.249 χ^2/NDF : 2101636.0/30

Left In: 7000.532 $\pm$ 1.197 χ^2/NDF : 550029.3/22

Left: 7034.358 $\pm$ 0.838 χ^2/NDF : 939043.5/47

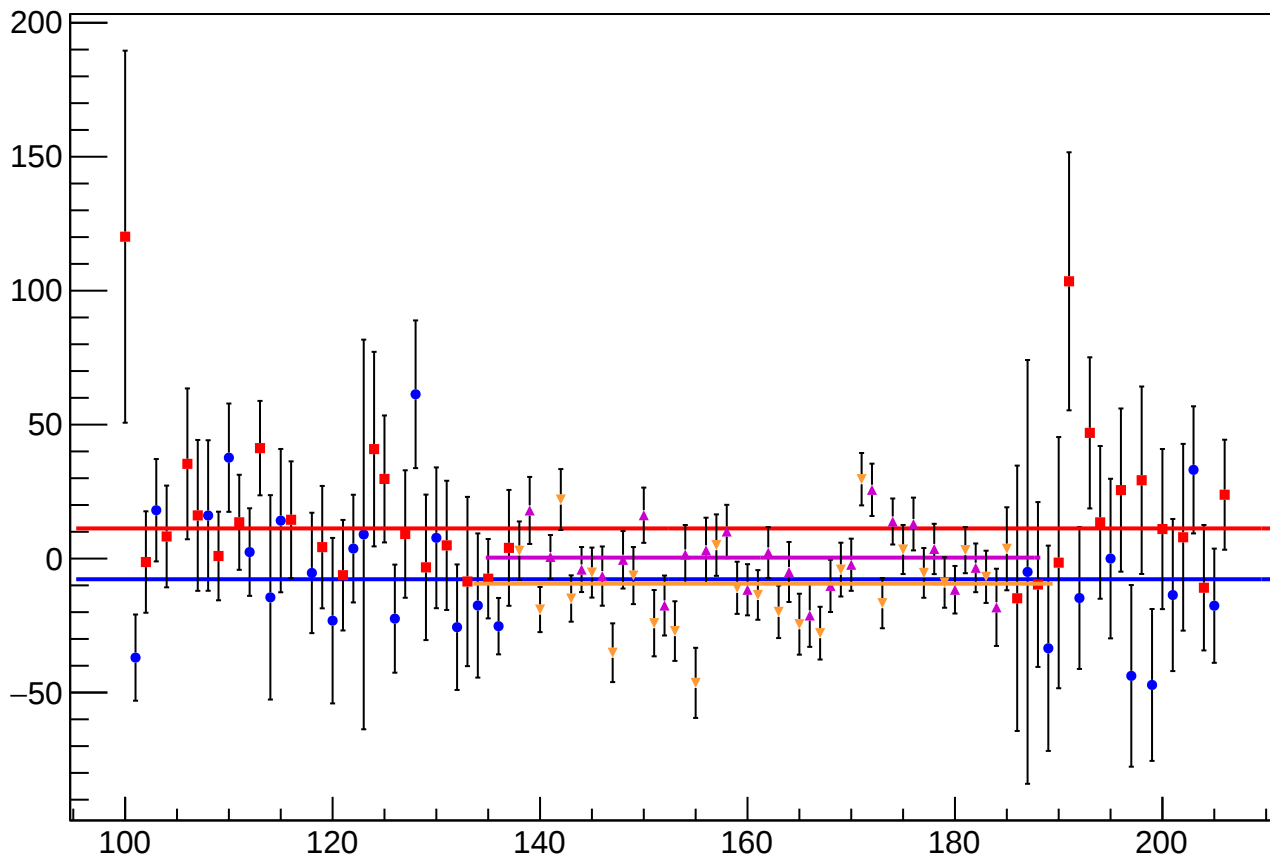
Right: 6564.856 $\pm$ 0.914 χ^2/NDF : 3614334.5/56

In: 6812.755 $\pm$ 0.893 χ^2/NDF : 2118057.8/48

Out: 6826.698 $\pm$ 0.855 χ^2/NDF : 2578530.1/55

All: 6820.031 $\pm$ 0.618 χ^2/NDF : 4696715.0/100

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.713 $\pm$ 4.471 χ^2/NDF : 30.1/25

Left Out: -9.376 $\pm$ 2.018 χ^2/NDF : 58.4/24

Right Out: 11.258 $\pm$ 4.357 χ^2/NDF : 19.4/30

Left In: 0.353 $\pm$ 2.092 χ^2/NDF : 29.6/22

Left: -4.688 $\pm$ 1.452 χ^2/NDF : 99.3/47

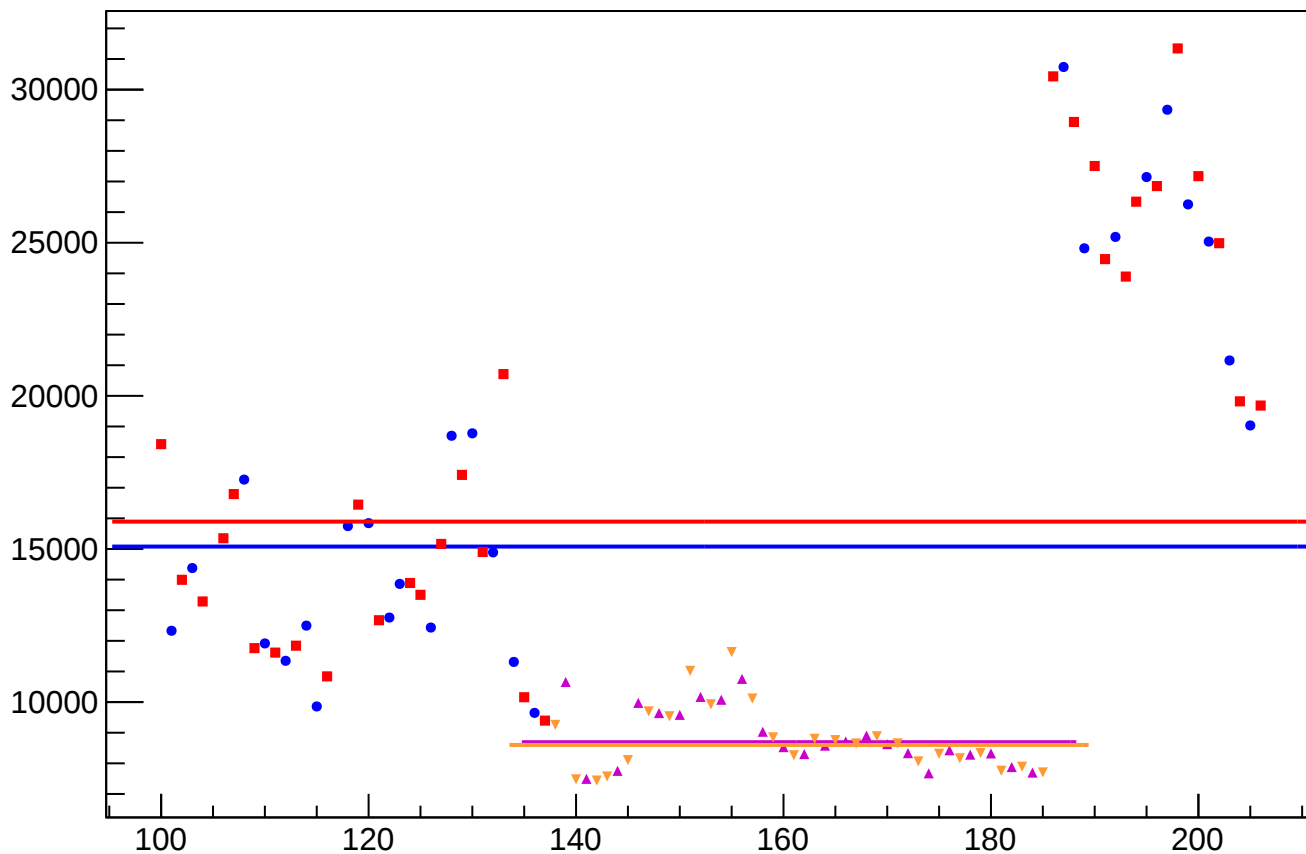
Right: 2.017 $\pm$ 3.121 χ^2/NDF : 58.8/56

In: -1.095 $\pm$ 1.895 χ^2/NDF : 62.4/48

Out: -5.733 $\pm$ 1.831 χ^2/NDF : 96.3/55

All: -3.494 $\pm$ 1.317 χ^2/NDF : 161.8/104

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15078.867 ± 3.162 $\chi^2/\text{NDF}: 2960713.9/25$

Left Out: 8600.457 ± 1.427 $\chi^2/\text{NDF}: 438229.4/24$

Right Out: 15893.414 ± 3.081 $\chi^2/\text{NDF}: 3474648.8/30$

Left In: 8690.209 ± 1.479 $\chi^2/\text{NDF}: 370834.1/22$

Left: 8643.707 ± 1.027 $\chi^2/\text{NDF}: 810970.4/47$

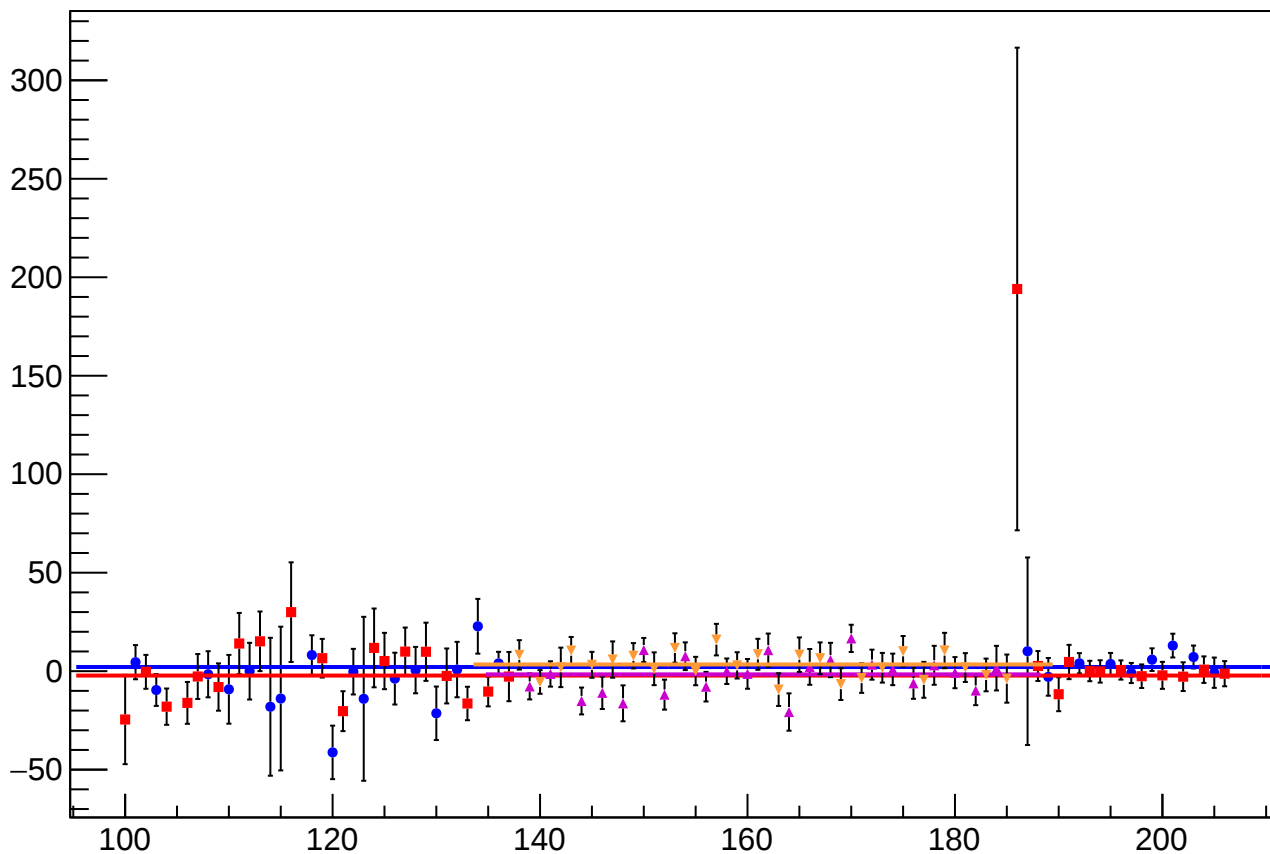
Right: 15496.656 ± 2.207 $\chi^2/\text{NDF}: 6469403.7/56$

In: 9837.684 ± 1.340 $\chi^2/\text{NDF}: 6680957.9/48$

Out: 9888.114 ± 1.295 $\chi^2/\text{NDF}: 8526034.8/55$

All: 9863.766 ± 0.931 $\chi^2/\text{NDF}: 15207725.2/111$

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.104 ± 1.690 χ^2/NDF : 25.0/25

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -2.224 ± 1.559 χ^2/NDF : 26.0/30

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

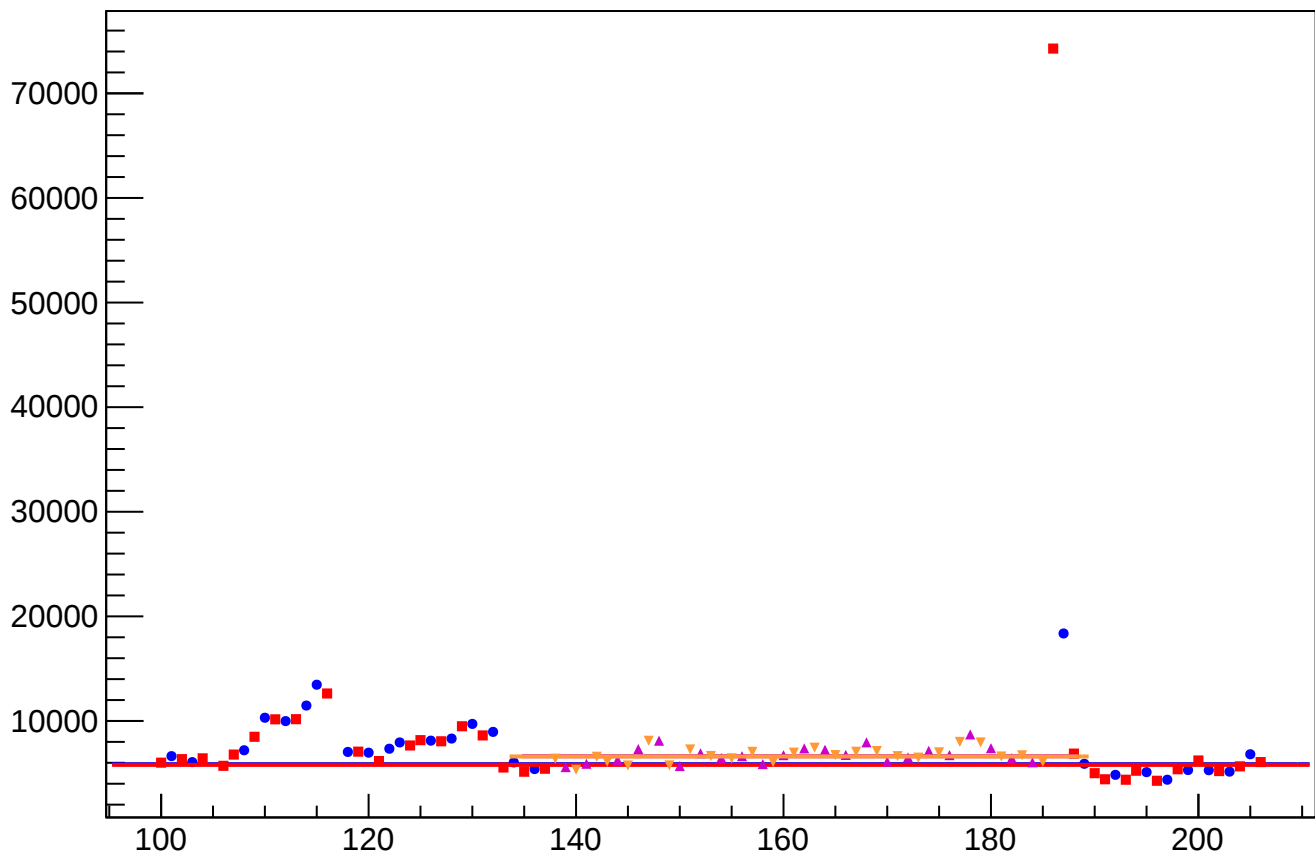
Right: -0.235 ± 1.146 χ^2/NDF : 54.5/56

In: 0.135 ± 1.162 χ^2/NDF : 61.0/48

Out: 0.606 ± 1.099 χ^2/NDF : 49.4/55

All: 0.384 ± 0.798 χ^2/NDF : 110.5/104

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5870.442 $\pm$ 1.195 χ^2/NDF : 1486051.5/25

Left Out: 6607.100 $\pm$ 1.096 χ^2/NDF : 398416.1/24

Right Out: 5803.686 $\pm$ 1.102 χ^2/NDF : 2132974.5/30

Left In: 6628.653 $\pm$ 1.131 χ^2/NDF : 430282.2/22

Left: 6617.543 $\pm$ 0.787 χ^2/NDF : 828885.6/47

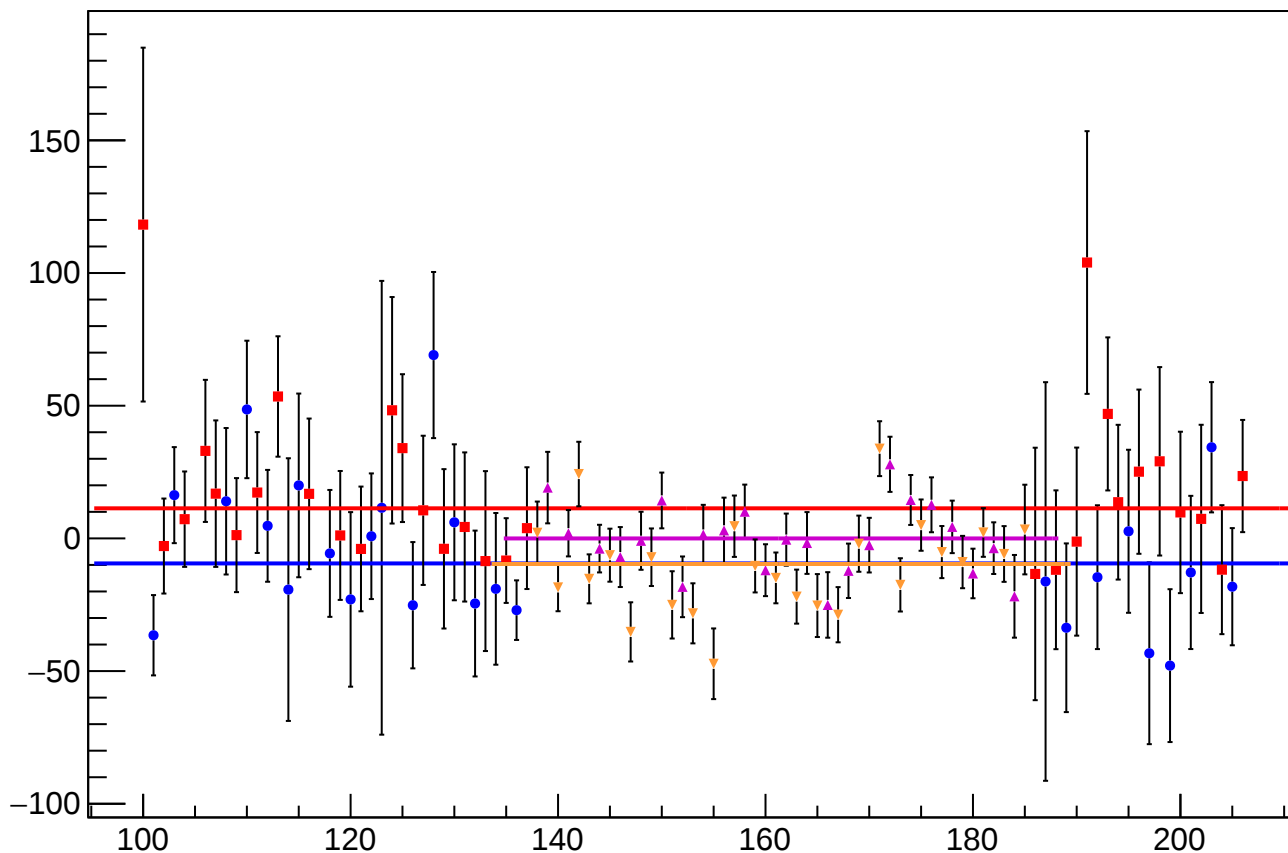
Right: 5834.371 $\pm$ 0.810 χ^2/NDF : 3620712.0/56

In: 6270.499 $\pm$ 0.821 χ^2/NDF : 2128724.6/48

Out: 6207.556 $\pm$ 0.777 χ^2/NDF : 2798459.0/55

All: 6237.295 $\pm$ 0.565 χ^2/NDF : 4930281.6/10

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.432 ± 4.806 $\chi^2/\text{NDF}: 29.4/25$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 11.331 ± 4.720 $\chi^2/\text{NDF}: 19.8/30$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

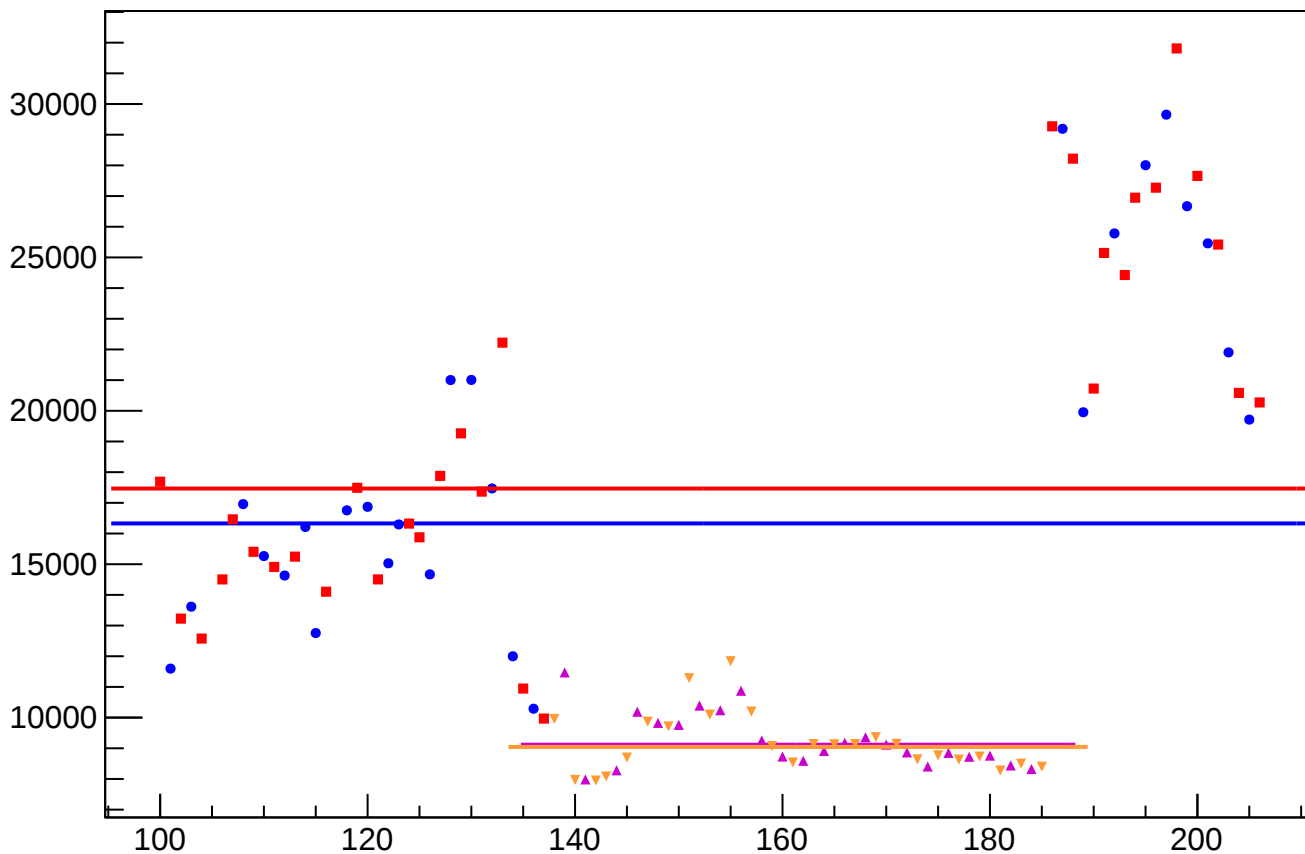
Right: 1.137 ± 3.367 $\chi^2/\text{NDF}: 58.7/56$

In: -1.640 ± 1.994 $\chi^2/\text{NDF}: 63.2/48$

Out: -6.131 ± 1.933 $\chi^2/\text{NDF}: 96.0/55$

All: -3.956 ± 1.388 $\chi^2/\text{NDF}: 161.8/104$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16329.054+/-3.398 χ^2/NDF : 2547147.0/25

Left Out: 9043.485+/-1.498 χ^2/NDF : 328192.2/24

Right Out: 17467.163+/-3.337 χ^2/NDF : 2707269.6/30

Left In: 9116.921+/-1.550 χ^2/NDF : 277594.8/22

Left: 9078.947+/-1.077 χ^2/NDF : 606947.8/47

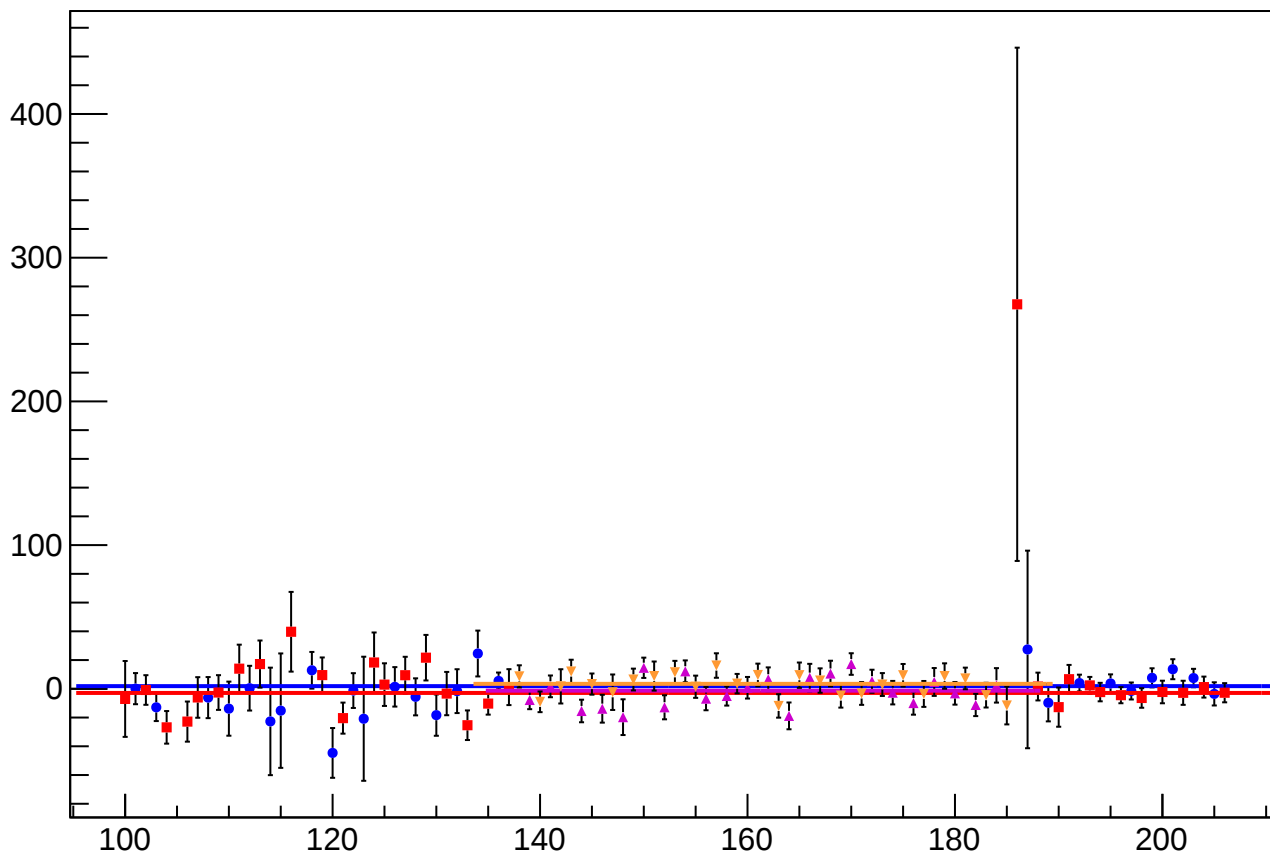
Right: 16908.404+/-2.381 χ^2/NDF : 5311516.1/56

In: 10358.968+/-1.410 χ^2/NDF : 6553402.8/48

Out: 10455.830+/-1.366 χ^2/NDF : 8338521.0/55

All: 10408.924+/-0.981 χ^2/NDF : 14894356.9/108

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.858 ± 1.904 χ^2/NDF : 23.4/25

Left Out: 3.439 ± 1.666 χ^2/NDF : 18.9/24

Right Out: -2.880 ± 1.774 χ^2/NDF : 30.9/30

Left In: -1.291 ± 1.701 χ^2/NDF : 36.5/22

Left: 1.123 ± 1.190 χ^2/NDF : 59.4/47

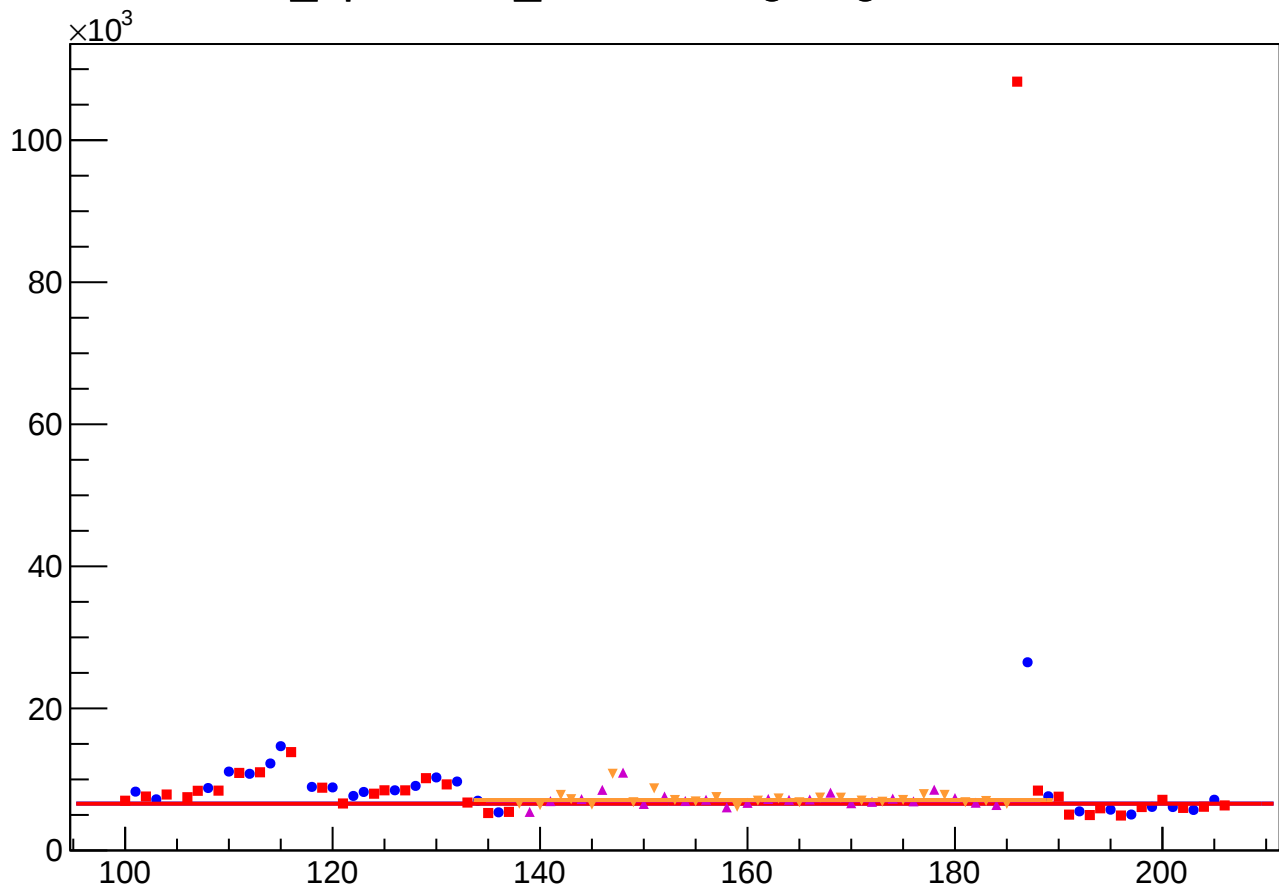
Right: -0.679 ± 1.298 χ^2/NDF : 57.6/56

In: 0.106 ± 1.269 χ^2/NDF : 61.5/48

Out: 0.477 ± 1.214 χ^2/NDF : 56.5/55

All: 0.300 ± 0.877 χ^2/NDF : 118.0/104

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6601.589 $\pm$ 1.347 χ^2/NDF : 1520961.7/25

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6581.364 $\pm$ 1.254 χ^2/NDF : 2107109.8/30

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

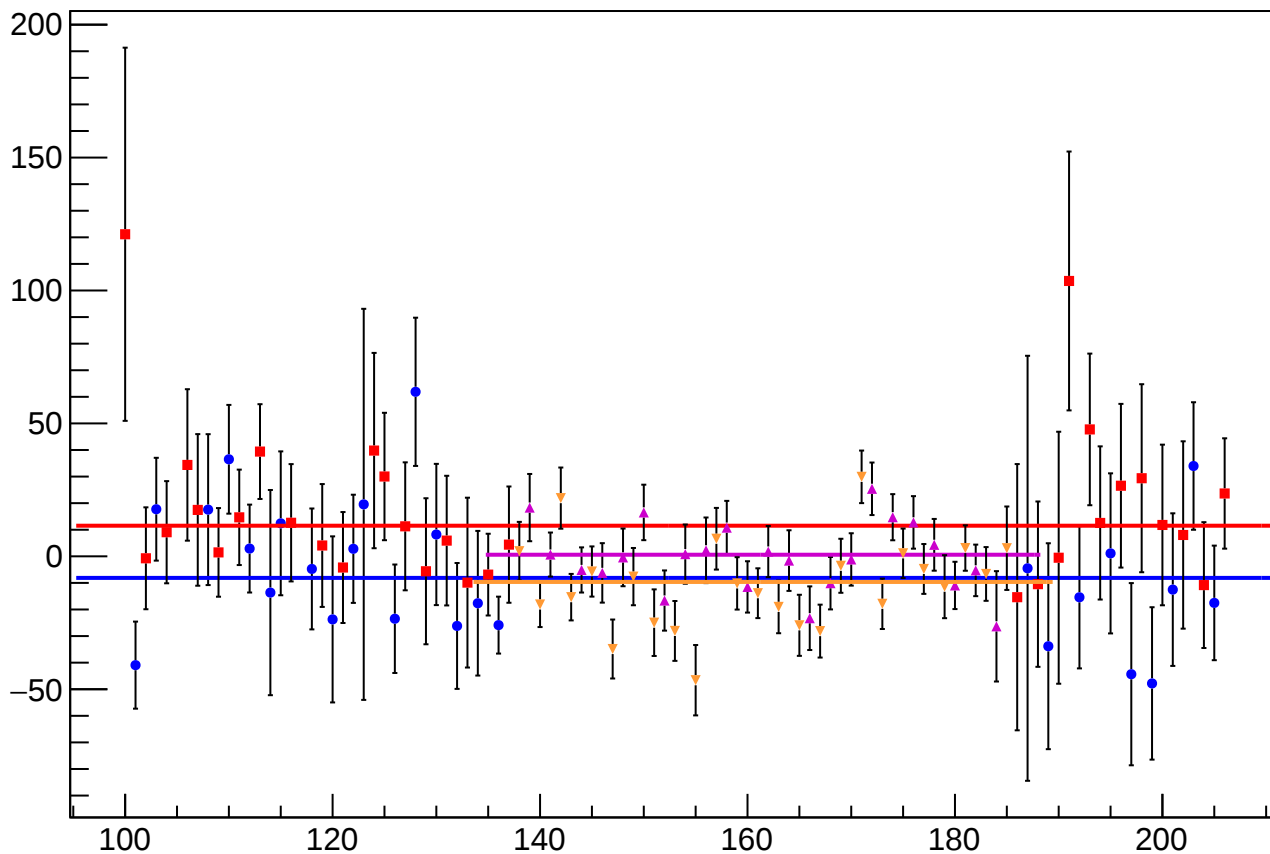
Right: 6590.759 $\pm$ 0.918 χ^2/NDF : 3628192.3/56

In: 6841.959 $\pm$ 0.897 χ^2/NDF : 2119276.4/48

Out: 6856.225 $\pm$ 0.859 χ^2/NDF : 2580054.7/55

All: 6849.403 $\pm$ 0.620 χ^2/NDF : 4699463.1/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -8.115 ± 4.529 χ^2/NDF : 30.8/25

Left Out: -9.640 ± 2.057 χ^2/NDF : 57.6/24

Right Out: 11.517 ± 4.416 χ^2/NDF : 18.5/30

Left In: 0.599 ± 2.135 χ^2/NDF : 29.7/22

Left: -4.710 ± 1.481 χ^2/NDF : 99.2/47

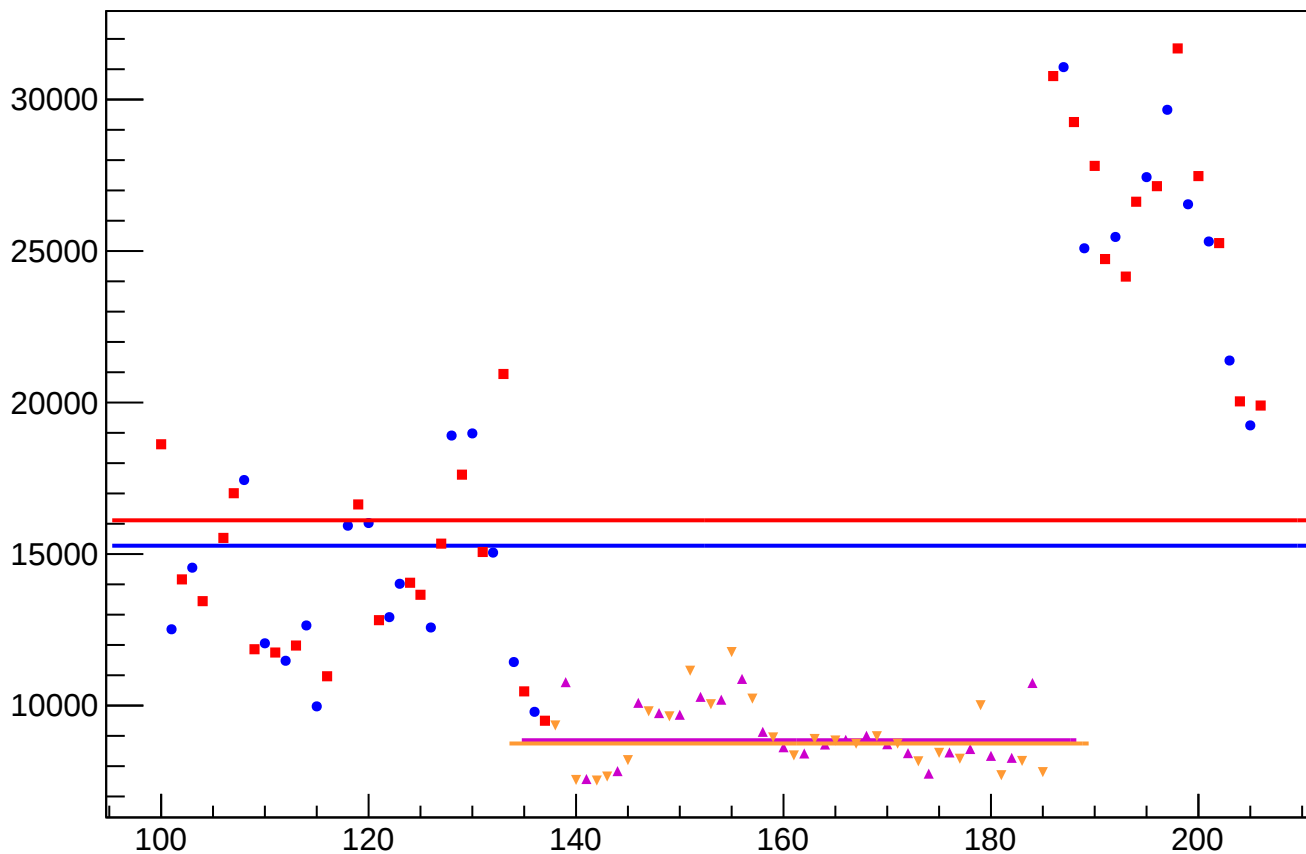
Right: 1.950 ± 3.162 χ^2/NDF : 58.9/56

In: -0.985 ± 1.931 χ^2/NDF : 63.5/48

Out: -5.867 ± 1.865 χ^2/NDF : 95.0/55

All: -3.512 ± 1.341 χ^2/NDF : 161.7/104

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15275.515 $\pm$ 3.203 χ^2 /NDF: 2941595.2/25

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF: 463394.1/24

Right Out: 16113.605 $\pm$ 3.123 χ^2 /NDF: 3439563.5/30

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

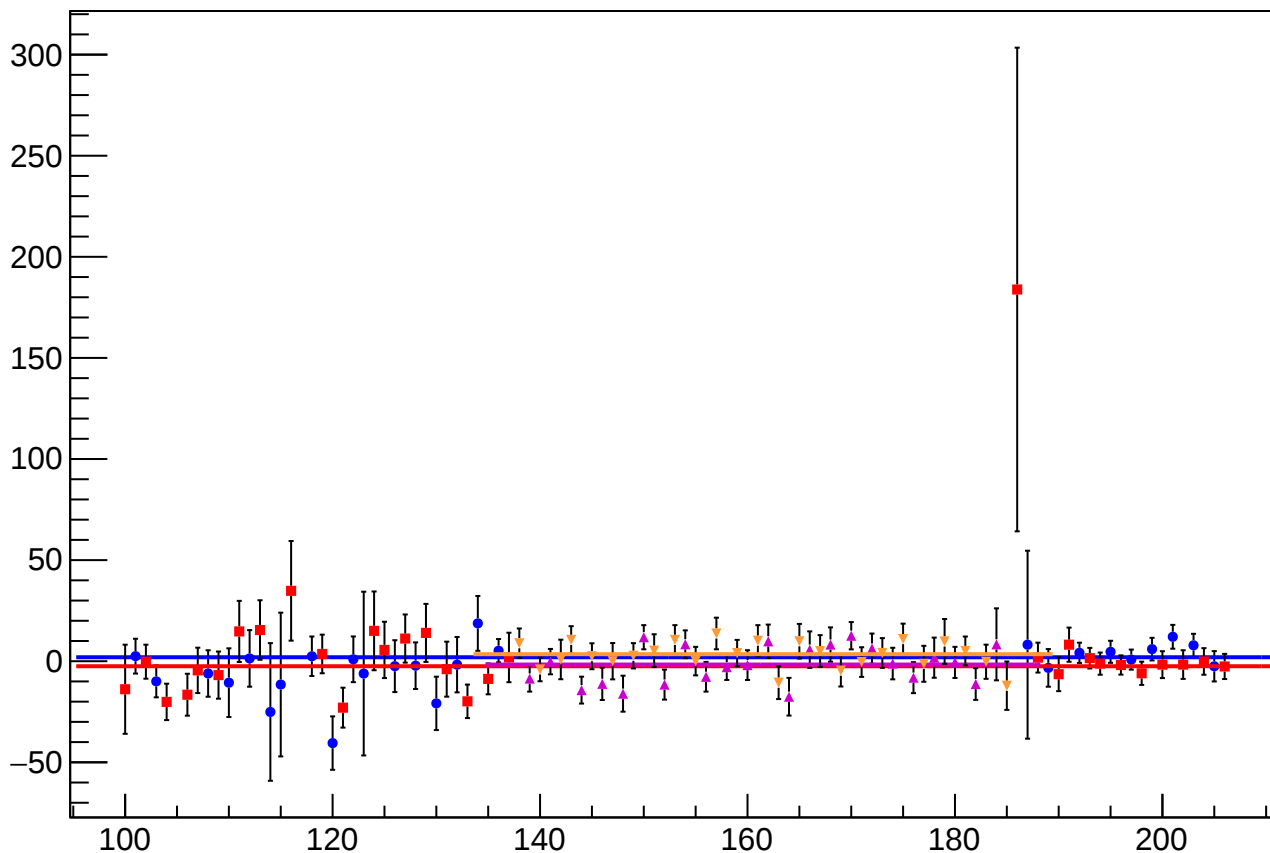
Right: 15705.160 $\pm$ 2.236 χ^2 /NDF: 6416265.6/56

In: 10022.812 $\pm$ 1.366 χ^2 /NDF: 6596929.7/48

Out: 10061.822 $\pm$ 1.319 χ^2 /NDF: 8474228.4/55

All: 10042.999 $\pm$ 0.949 χ^2 /NDF: 15071580.4

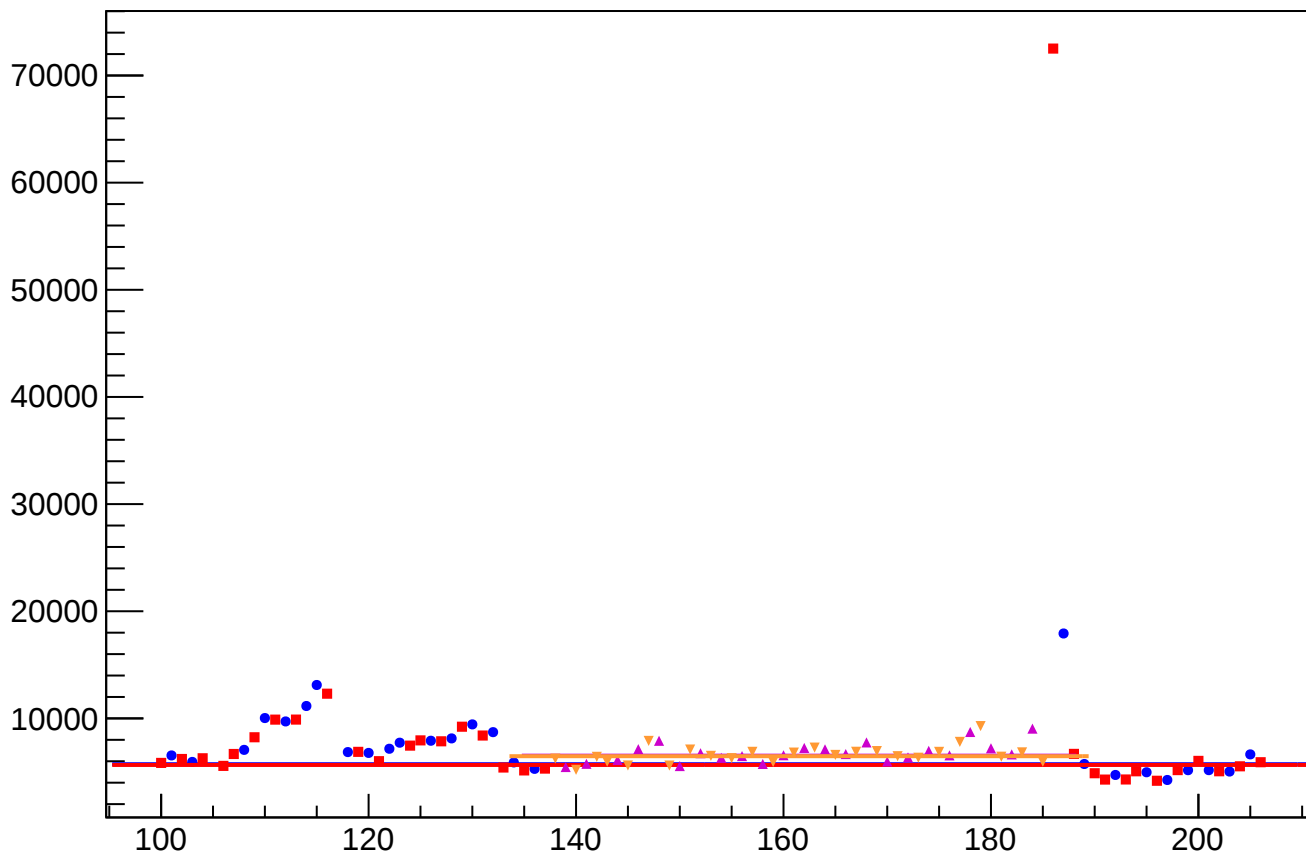
diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.960 ± 1.649 χ^2/NDF : 25.4/25
Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24
Right Out: -2.483 ± 1.520 χ^2/NDF : 30.8/30
Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47
Right: -0.442 ± 1.117 χ^2/NDF : 60.0/56
In: 0.082 ± 1.140 χ^2/NDF : 61.6/48
Out: 0.487 ± 1.076 χ^2/NDF : 54.2/55
All: 0.296 ± 0.783 χ^2/NDF : 115.8/104

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5723.115 $\pm$ 1.166 χ^2/NDF : 1492945.5/25

Left Out: 6471.976 $\pm$ 1.078 χ^2/NDF : 490282.9/24

Right Out: 5655.997 $\pm$ 1.075 χ^2/NDF : 2123625.2/30

Left In: 6521.975 $\pm$ 1.116 χ^2/NDF : 480034.7/22

Left: 6496.112 $\pm$ 0.775 χ^2/NDF : 971356.4/47

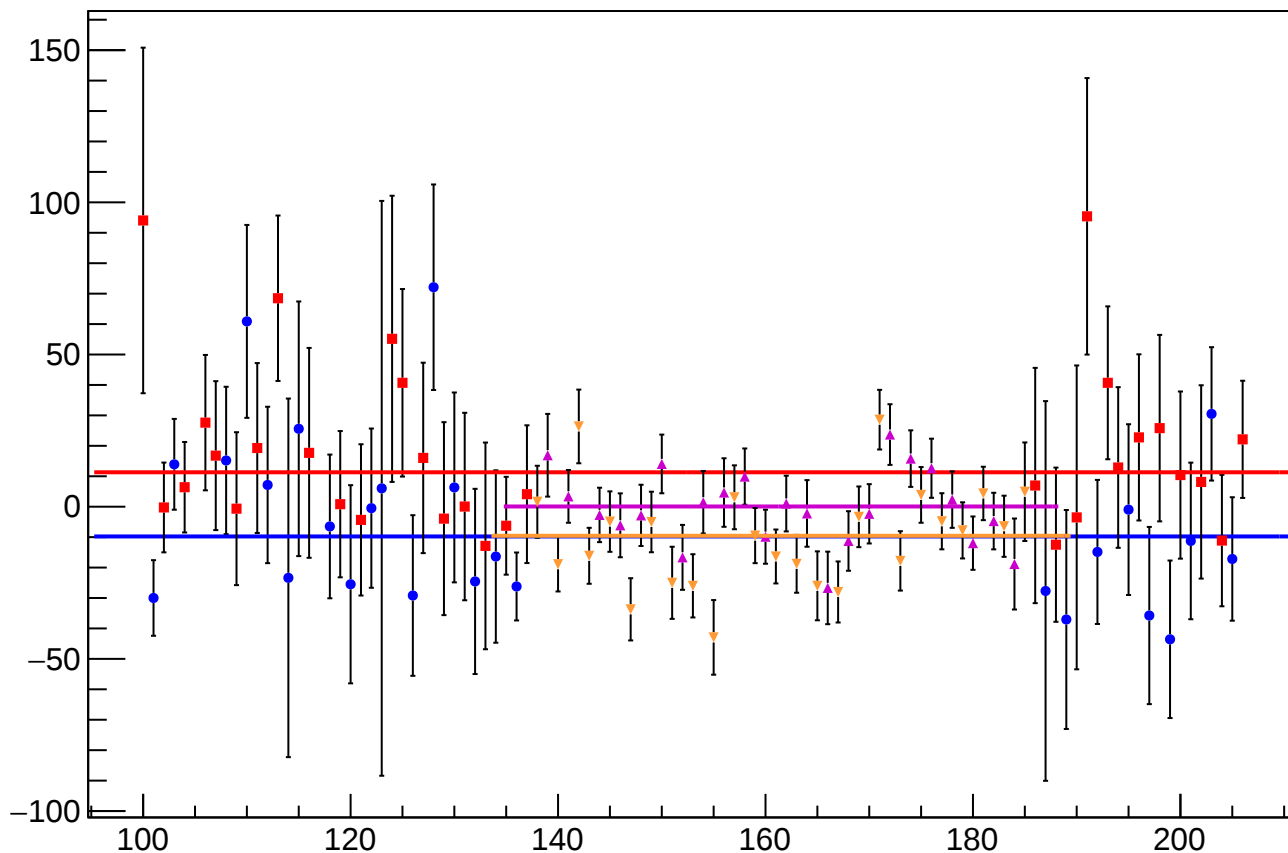
Right: 5686.831 $\pm$ 0.790 χ^2/NDF : 3618362.7/56

In: 6140.050 $\pm$ 0.806 χ^2/NDF : 2218073.7/48

Out: 6062.770 $\pm$ 0.761 χ^2/NDF : 2901324.0/55

All: 6099.191 $\pm$ 0.553 χ^2/NDF : 5124257.6/100

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.776 ± 4.620 $\chi^2/\text{NDF}: 28.8/25$

Left Out: -9.554 ± 2.012 $\chi^2/\text{NDF}: 59.5/24$

Right Out: 11.305 ± 4.540 $\chi^2/\text{NDF}: 20.4/30$

Left In: 0.072 ± 2.073 $\chi^2/\text{NDF}: 29.8/22$

Left: -4.885 ± 1.444 $\chi^2/\text{NDF}: 100.5/47$

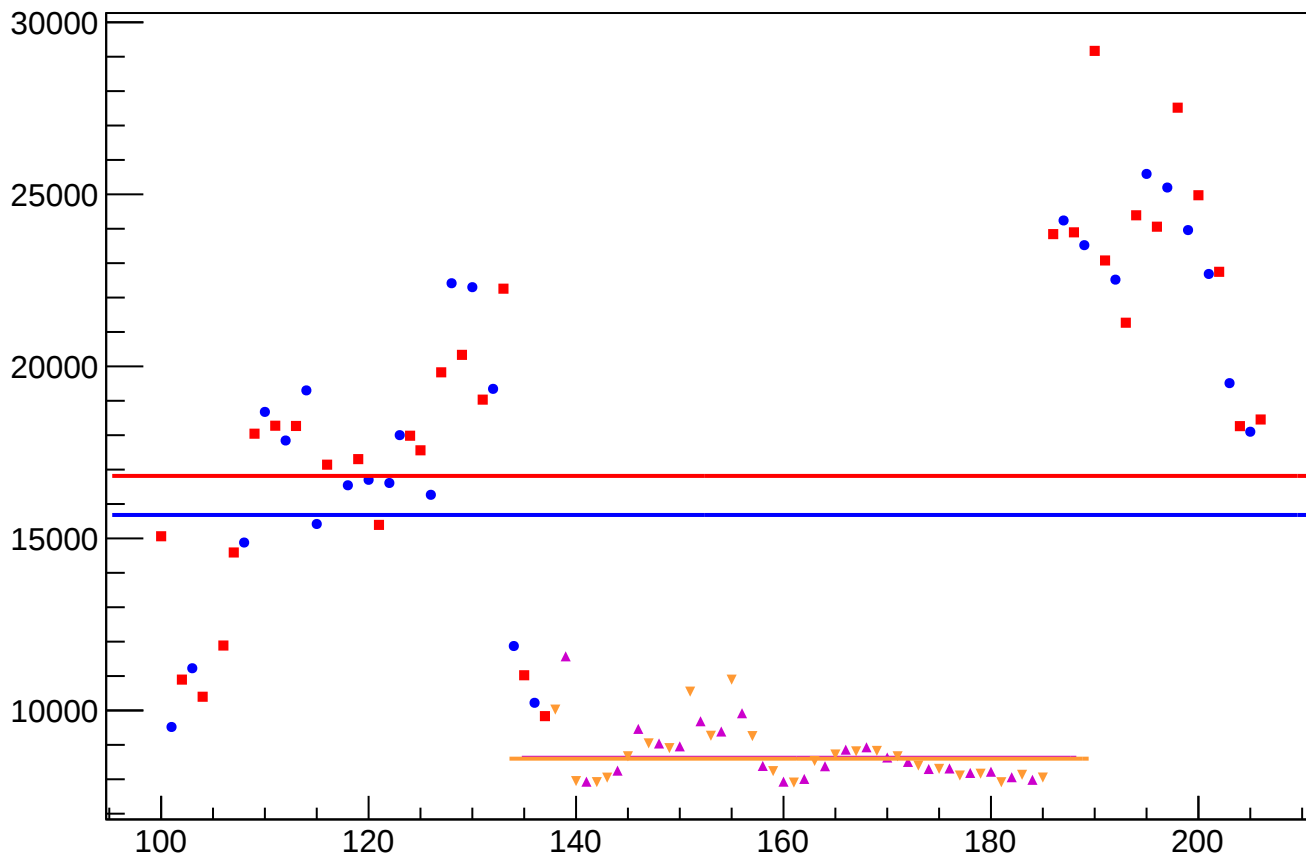
Right: 0.949 ± 3.238 $\chi^2/\text{NDF}: 59.7/56$

In: -1.578 ± 1.891 $\chi^2/\text{NDF}: 62.4/48$

Out: -6.131 ± 1.839 $\chi^2/\text{NDF}: 97.5/55$

All: -3.918 ± 1.319 $\chi^2/\text{NDF}: 162.9/104$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15681.746 $\pm$ 3.267 χ^2 /NDF: 2640857.6/25

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF:249070.5/24

Right Out: 16816.625 $\pm$ 3.211 χ^2 /NDF: 2657495.3/30

Left In: 8625.233 $\pm$ 1.466 χ^2 /NDF:237310.9/22

Left: 8611.717 $\pm$ 1.021 χ^2 /NDF: 486546.6/47

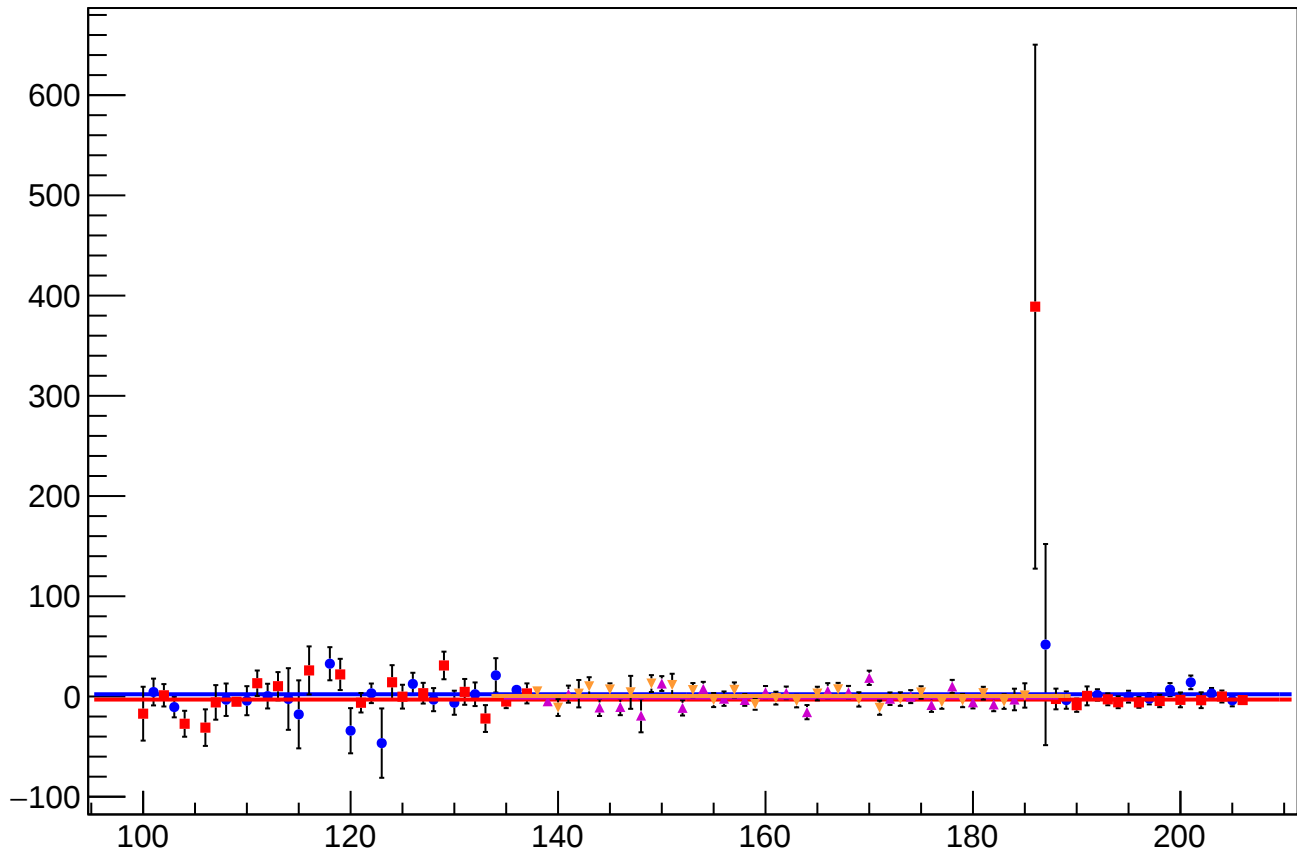
Right: 16259.109 $\pm$ 2.290 χ^2 /NDF: 5359737.2/56

In: 9807.392 $\pm$ 1.337 χ^2 /NDF:6761546.4/48

Out: 9947.546 $\pm$ 1.301 χ^2 /NDF:8382975.6/55

All: 9879.417 $\pm$ 0.932 χ^2 /NDF: 15150167.0/103

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.224 ± 1.715 $\chi^2/\text{NDF}: 20.0/25$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -3.057 ± 1.524 $\chi^2/\text{NDF}: 27.6/30$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

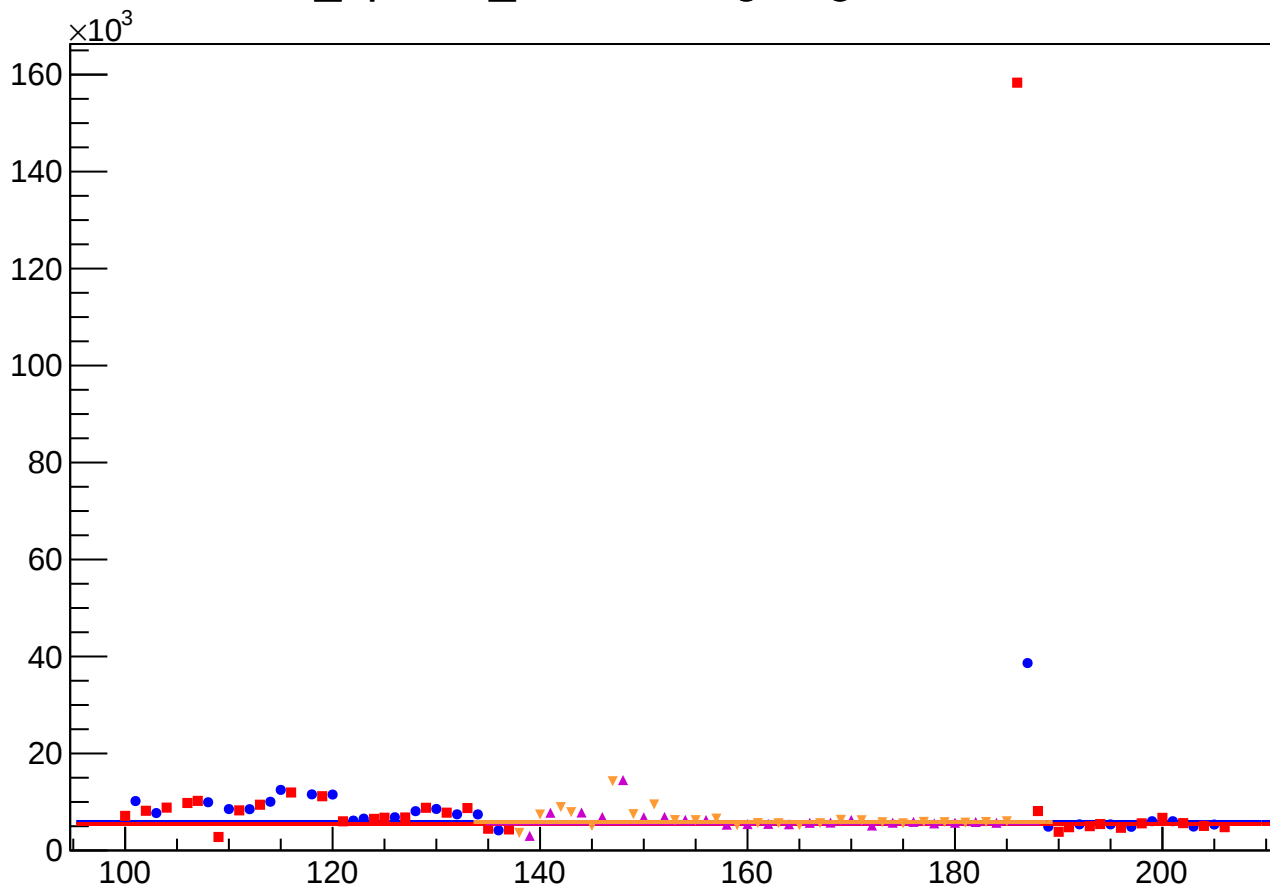
Right: -0.726 ± 1.139 $\chi^2/\text{NDF}: 52.9/56$

In: 0.255 ± 1.082 $\chi^2/\text{NDF}: 54.8/48$

Out: -1.135 ± 1.038 $\chi^2/\text{NDF}: 50.0/55$

All: -0.469 ± 0.749 $\chi^2/\text{NDF}: 105.6/104$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5873.024 $\pm$ 1.213 χ^2/NDF : 1975886.0/25

Left Out: 5860.605 $\pm$ 1.002 χ^2/NDF : 1690049.2/24

Right Out: 5459.476 $\pm$ 1.078 χ^2/NDF : 3435727.3/30

Left In: 5571.330 $\pm$ 0.987 χ^2/NDF : 2162788.3/22

Left: 5713.698 $\pm$ 0.703 χ^2/NDF : 3895130.2/47

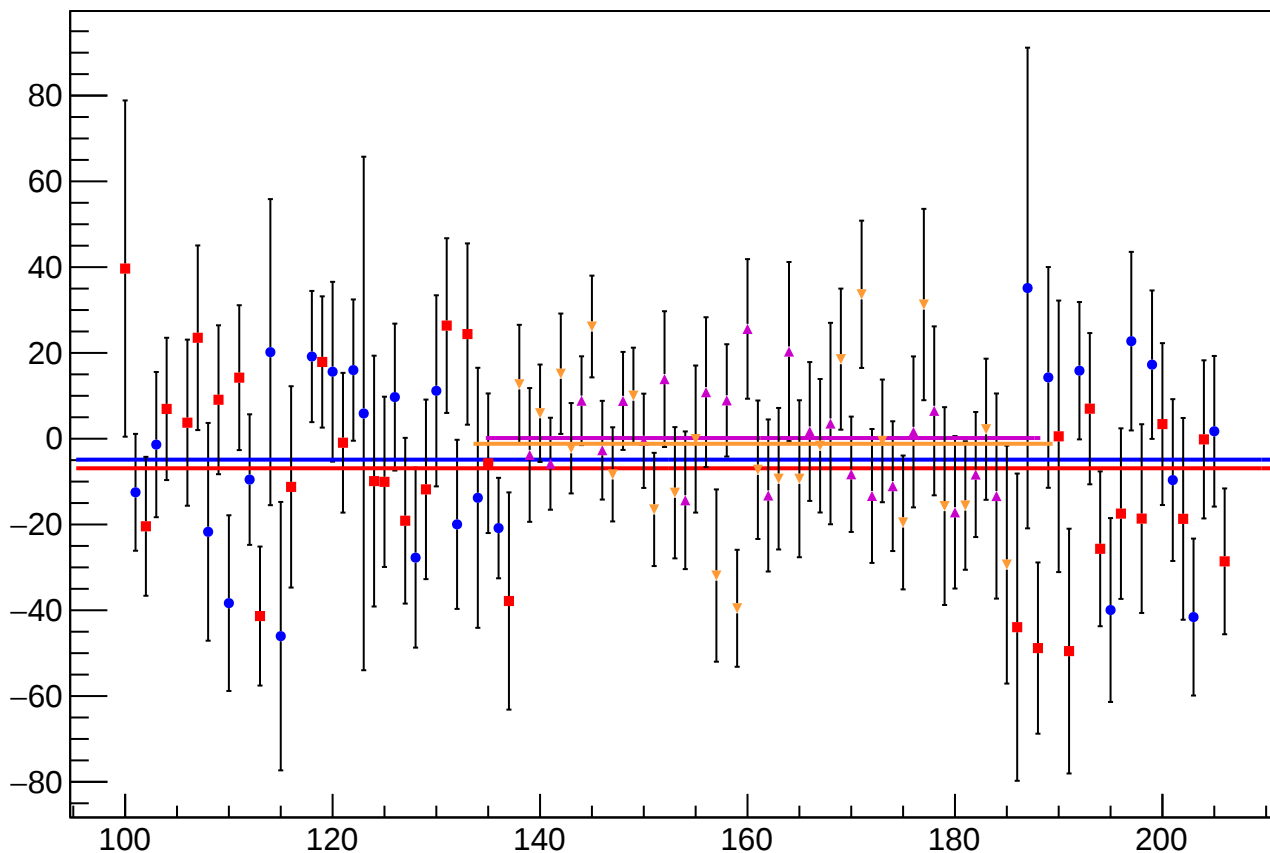
Right: 5641.981 $\pm$ 0.806 χ^2/NDF : 5476593.4/56

In: 5691.526 $\pm$ 0.765 χ^2/NDF : 4175913.5/48

Out: 5674.546 $\pm$ 0.734 χ^2/NDF : 5200051.9/55

All: 5682.681 $\pm$ 0.530 χ^2/NDF : 9376221.8/10

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.880 ± 3.761 χ^2/NDF : 28.9/25

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -6.897 ± 3.547 χ^2/NDF : 34.0/30

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

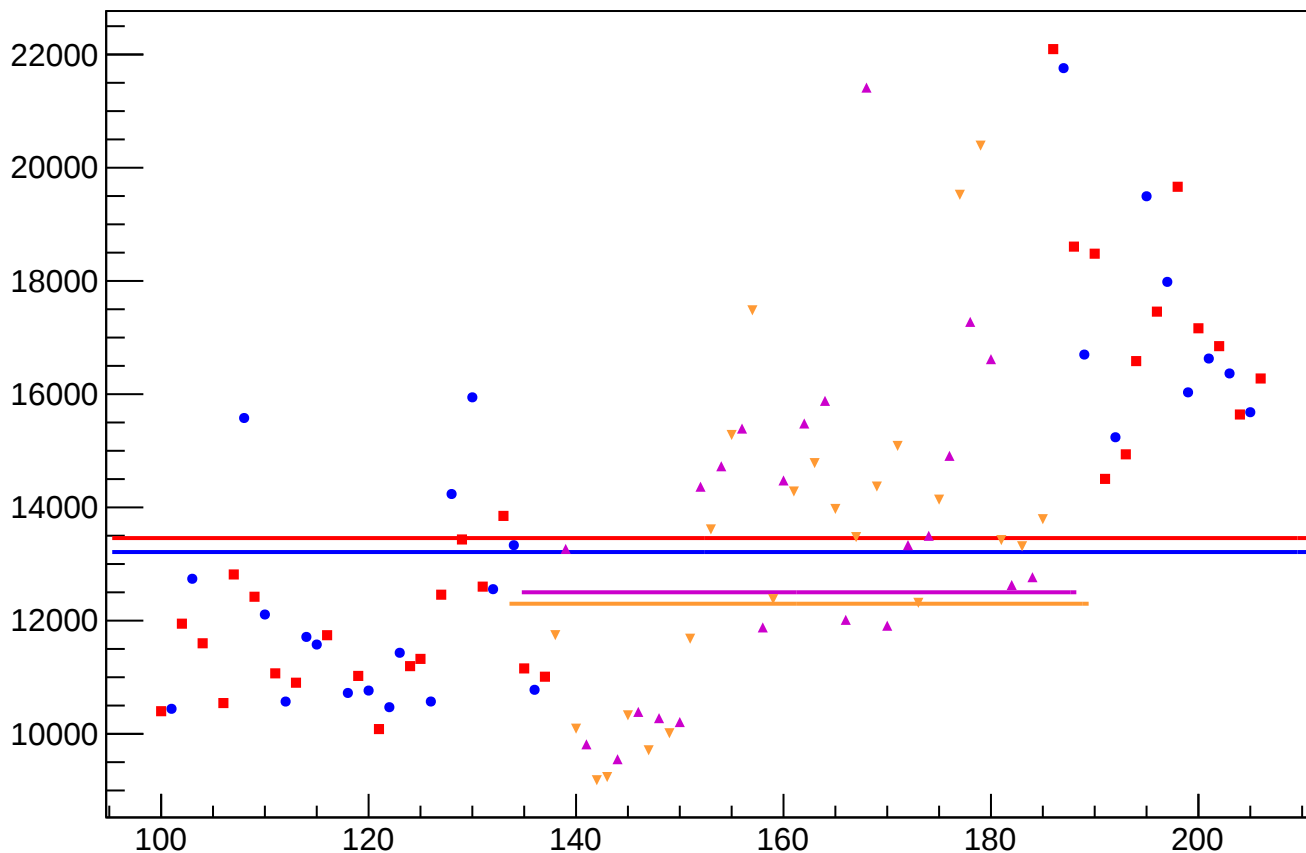
Right: -5.948 ± 2.580 χ^2/NDF : 63.0/56

In: -1.848 ± 2.373 χ^2/NDF : 41.4/48

Out: -3.509 ± 2.263 χ^2/NDF : 69.3/55

All: -2.718 ± 1.638 χ^2/NDF : 111.0/104

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13211.642 $\pm$ 2.659

χ^2 /NDF: 1095248.8/25

Left: 12395.720 $\pm$ 1.498 χ^2 /NDF: 2868458.0/47

Right: 13342.180 $\pm$ 1.825 χ^2 /NDF: 2367190.6/56

Left Out: 12298.676 $\pm$ 2.078

χ^2 /NDF: 1506026.8/24

In: 12783.724 $\pm$ 1.678 χ^2 /NDF: 2496150.9/48

Right Out: 13458.297 $\pm$ 2.508

χ^2 /NDF: 1267388.9/30

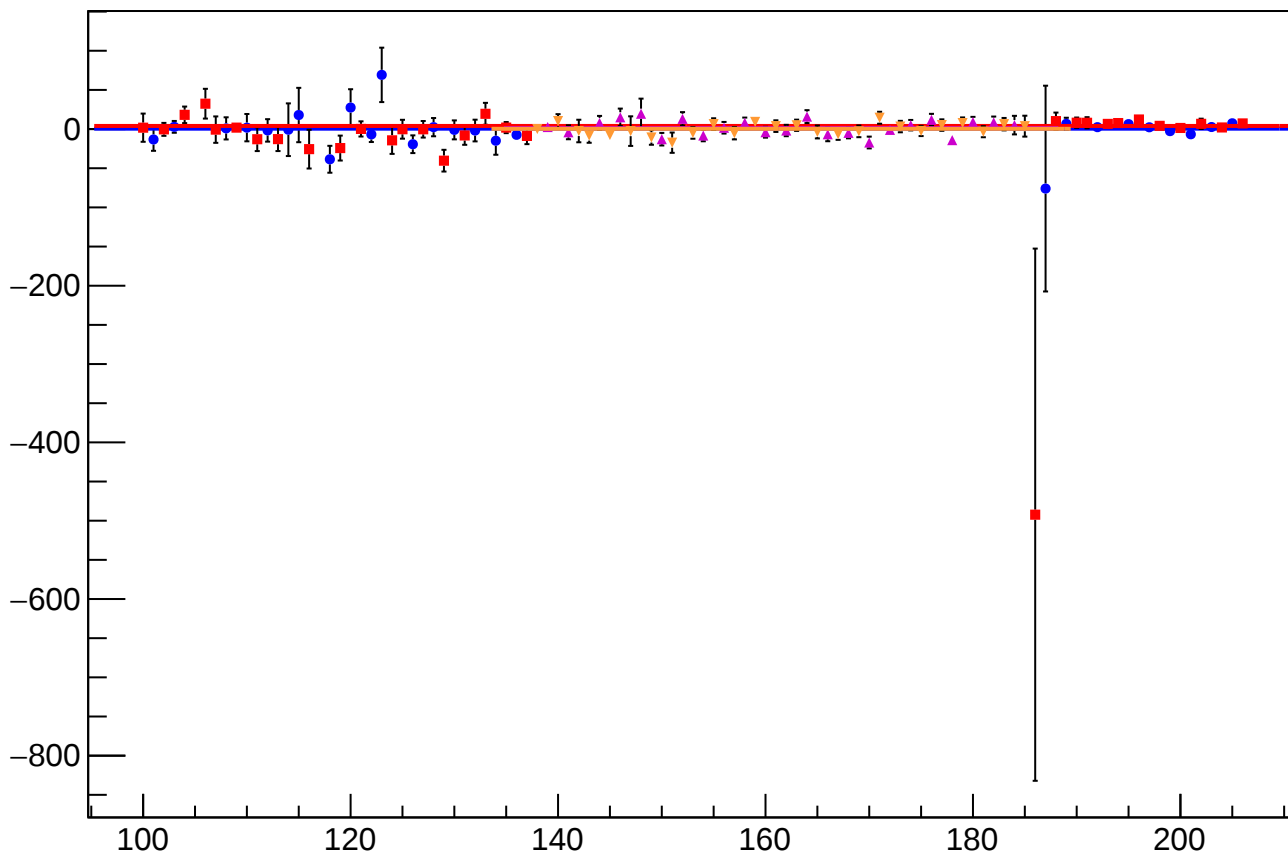
Out: 12770.698 $\pm$ 1.600 χ^2 /NDF: 2900167.6/55

Left In: 12500.795 $\pm$ 2.162

χ^2 /NDF: 1357889.1/22

All: 12776.903 $\pm$ 1.158 χ^2 /NDF: 5396350.1/131

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.518 $\pm$ 1.470 χ^2/NDF : 26.7/25

Left Out: 0.353 $\pm$ 1.433 χ^2/NDF : 19.1/24

Right Out: 3.992 $\pm$ 1.346 χ^2/NDF : 35.1/30

Left In: 1.165 $\pm$ 1.371 χ^2/NDF : 33.6/22

Left: 0.777 $\pm$ 0.991 χ^2/NDF : 52.9/47

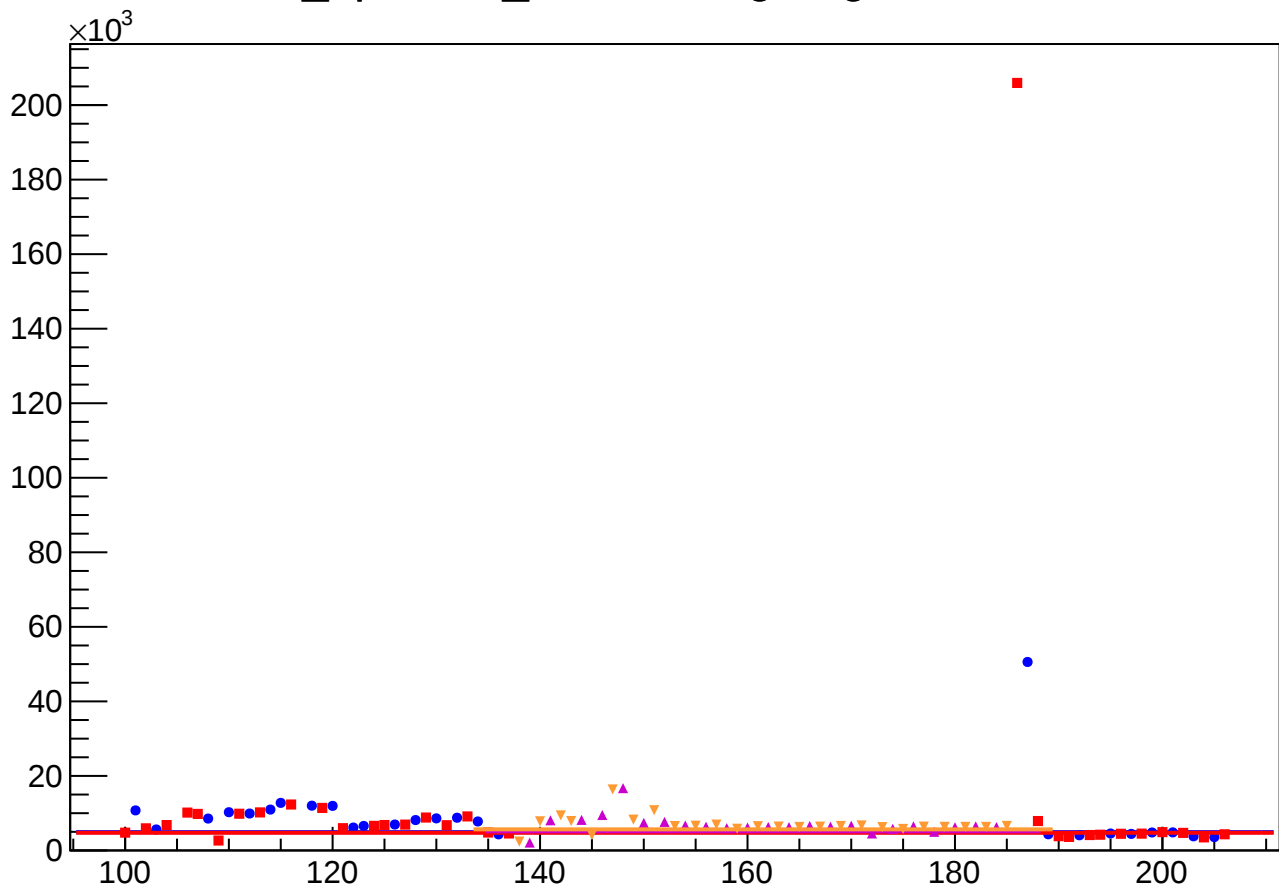
Right: 2.408 $\pm$ 0.993 χ^2/NDF : 64.9/56

In: 0.864 $\pm$ 1.003 χ^2/NDF : 60.4/48

Out: 2.287 $\pm$ 0.981 χ^2/NDF : 57.7/55

All: 1.591 $\pm$ 0.701 χ^2/NDF : 119.1/104

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4909.858 ± 1.040 $\chi^2/\text{NDF}: 2990512.6/25$

Left Out: 5659.441 ± 1.014 $\chi^2/\text{NDF}: 4128583.6/24$

Right Out: 4743.337 ± 0.952 $\chi^2/\text{NDF}: 3725508.4/30$

Left In: 5137.772 ± 0.970 $\chi^2/\text{NDF}: 5495609.7/22$

Left: 5387.078 ± 0.701 $\chi^2/\text{NDF}: 9762498.7/47$

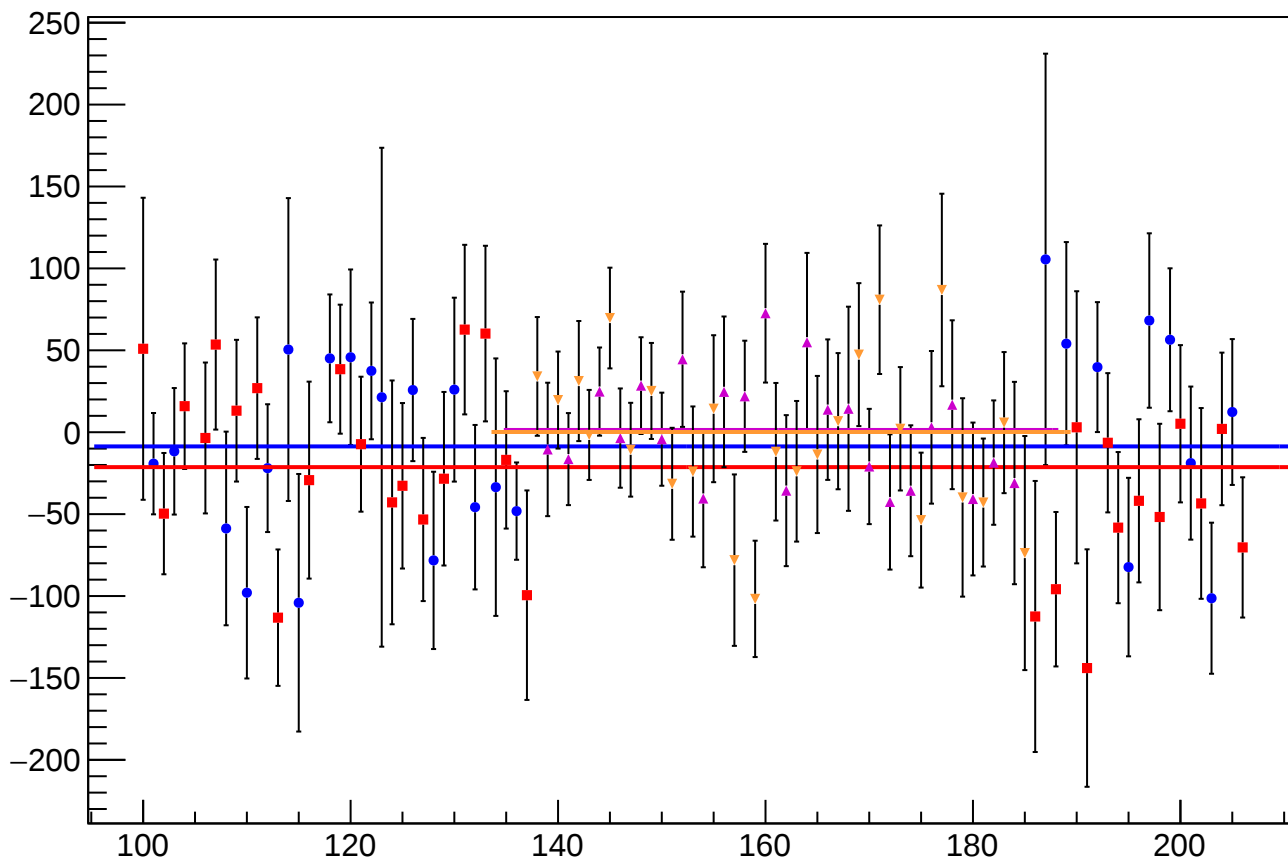
Right: 4819.274 ± 0.702 $\chi^2/\text{NDF}: 6729972.8/56$

In: 5031.753 ± 0.709 $\chi^2/\text{NDF}: 8511818.2/48$

Out: 5172.734 ± 0.694 $\chi^2/\text{NDF}: 8288110.3/55$

All: 5103.776 ± 0.496 $\chi^2/\text{NDF}: 16820117.8/100$

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -8.665 ± 9.360 χ^2/NDF : 28.8/25

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -21.312 ± 8.840 χ^2/NDF : 30.5/30

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

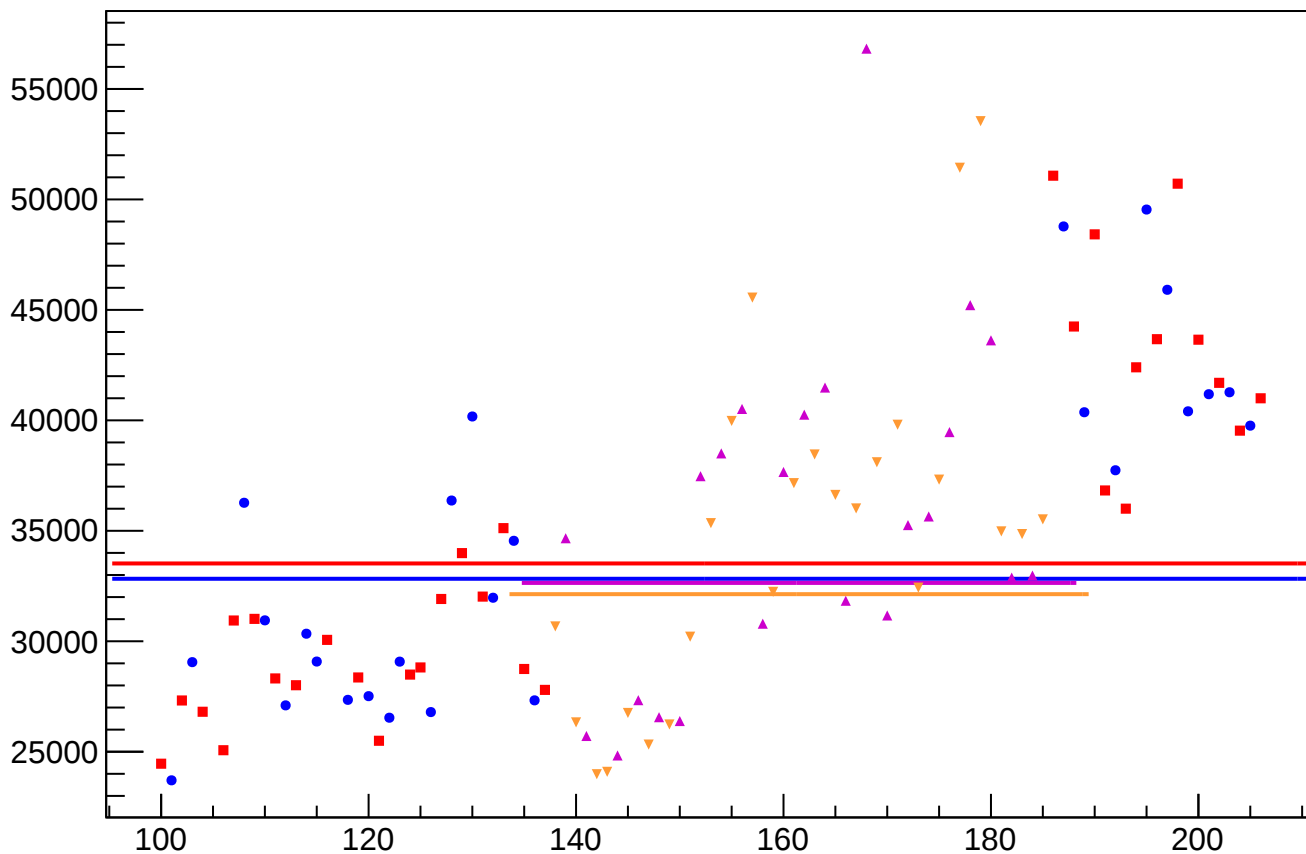
Right: -15.350 ± 6.427 χ^2/NDF : 60.2/56

In: -2.858 ± 6.077 χ^2/NDF : 42.8/48

Out: -9.091 ± 5.799 χ^2/NDF : 65.1/55

All: -6.120 ± 4.195 χ^2/NDF : 108.4/104

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 32828.857+/-6.618

χ^2/NDF : 1150348.4/25

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

Right Out: 33522.191+/-6.250

χ^2/NDF : 1302473.2/30

Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

Left: 32376.774+/-3.916 χ^2/NDF : 2946456.2/47

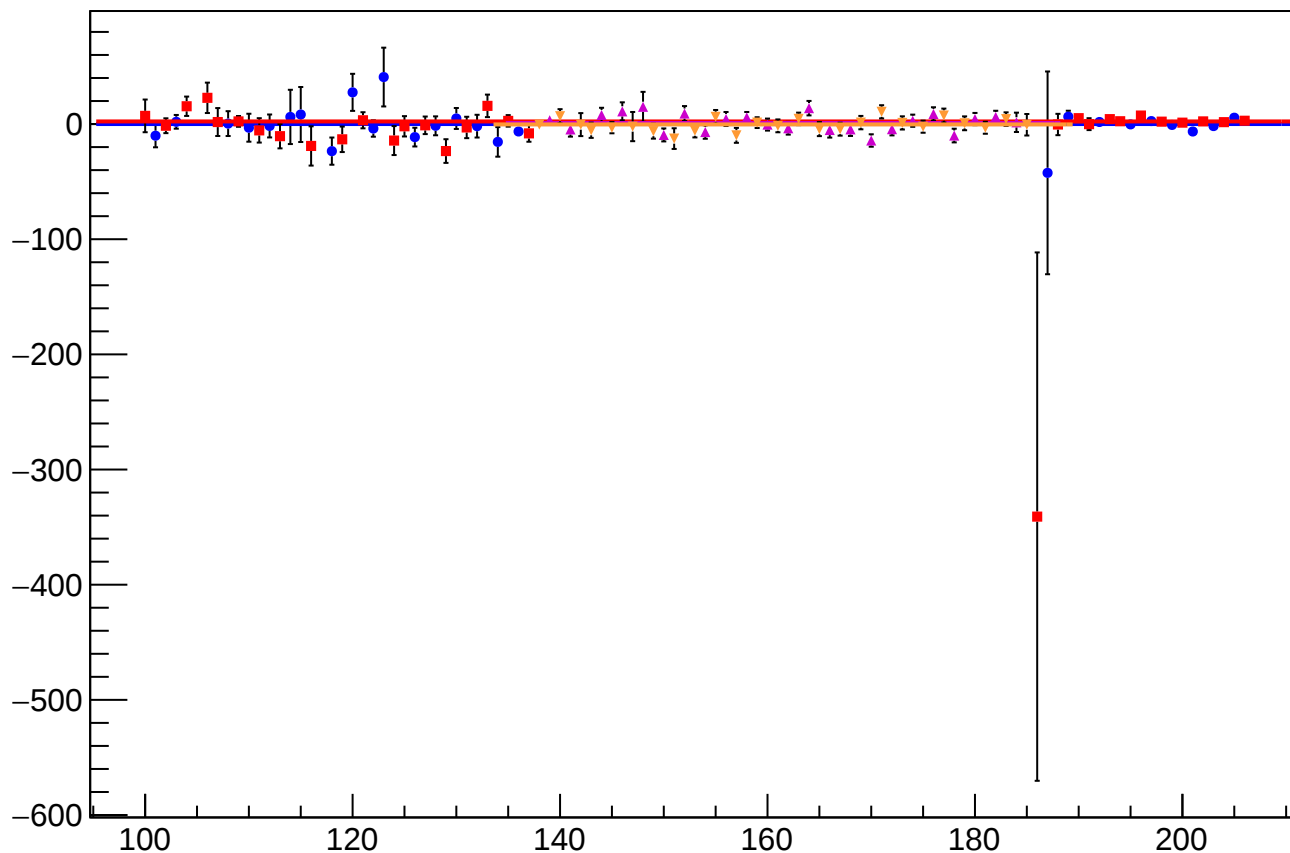
Right: 33195.328+/-4.544 χ^2/NDF : 2458622.3/56

In: 32720.286+/-4.297 χ^2/NDF : 2552976.0/48

Out: 32730.464+/-4.100 χ^2/NDF : 2870718.6/55

All: 32725.613+/-2.967 χ^2/NDF : 5423697.5/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.948 χ^2/NDF : 31.5/25

Left Out: -0.312 $\pm$ 1.172 χ^2/NDF : 17.6/24

Right Out: 2.276 $\pm$ 0.887 χ^2/NDF : 29.7/30

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

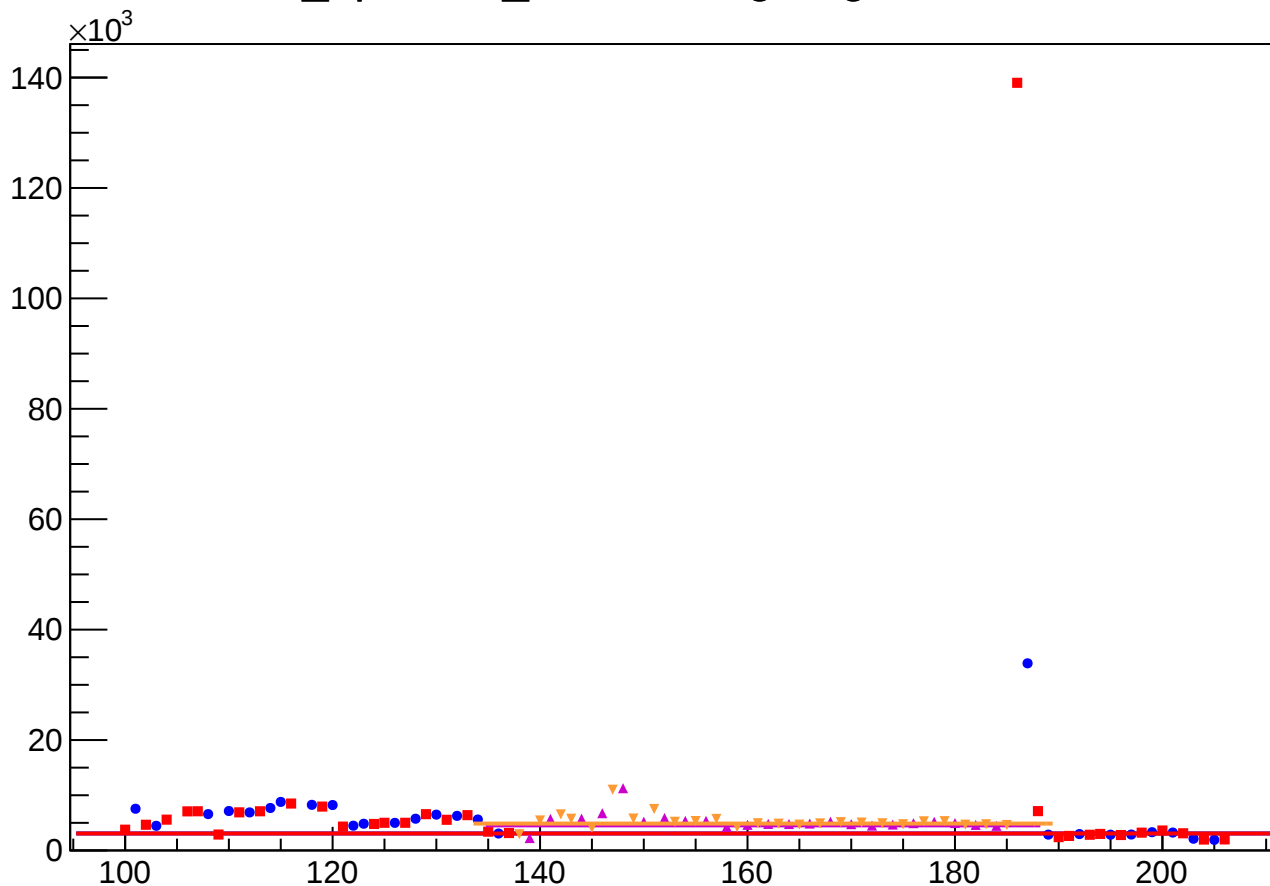
Right: 1.221 $\pm$ 0.648 χ^2/NDF : 64.3/56

In: 0.379 $\pm$ 0.729 χ^2/NDF : 68.1/48

Out: 1.333 $\pm$ 0.707 χ^2/NDF : 50.5/55

All: 0.871 $\pm$ 0.508 χ^2/NDF : 119.4/104

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3082.045 ± 0.670 $\chi^2/\text{NDF}: 4164294.3/25$

Left Out: 4868.567 ± 0.829 $\chi^2/\text{NDF}: 1511151.0/24$

Right Out: 3069.816 ± 0.627 $\chi^2/\text{NDF}: 4976328.6/30$

Left In: 4544.337 ± 0.808 $\chi^2/\text{NDF}: 2634314.4/22$

Left: 4702.320 ± 0.578 $\chi^2/\text{NDF}: 4223993.0/47$

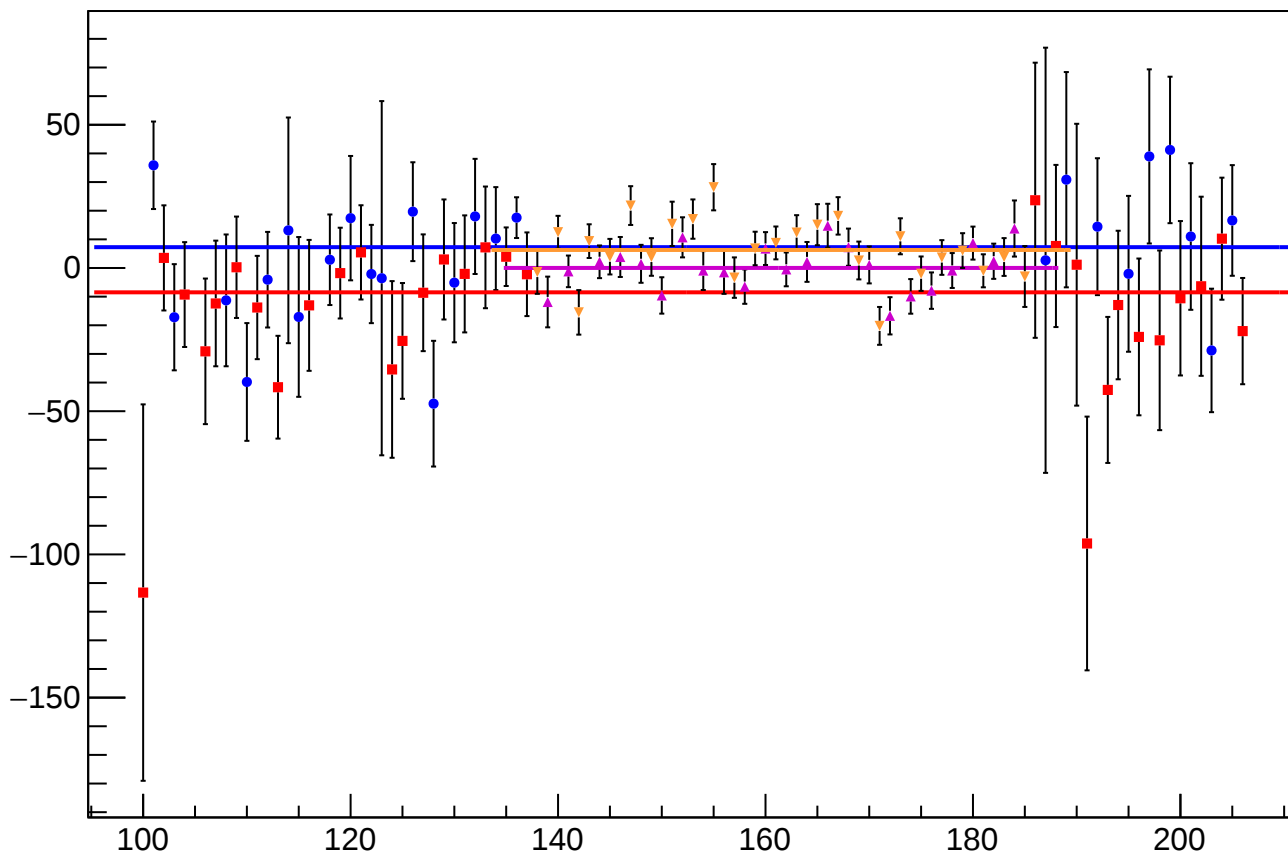
Right: 3075.522 ± 0.458 $\chi^2/\text{NDF}: 9140800.4/56$

In: 3678.423 ± 0.516 $\chi^2/\text{NDF}: 8739783.8/48$

Out: 3724.798 ± 0.500 $\chi^2/\text{NDF}: 9484723.6/55$

All: 3702.333 ± 0.359 $\chi^2/\text{NDF}: 18228675.3/100$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 7.270 ± 3.707 $\chi^2/\text{NDF}: 29.0/25$

Left Out: 6.296 ± 1.310 $\chi^2/\text{NDF}: 56.5/24$

Right Out: -8.498 ± 3.745 $\chi^2/\text{NDF}: 20.9/30$

Left In: 0.020 ± 1.353 $\chi^2/\text{NDF}: 29.9/22$

Left: 3.259 ± 0.941 $\chi^2/\text{NDF}: 97.5/47$

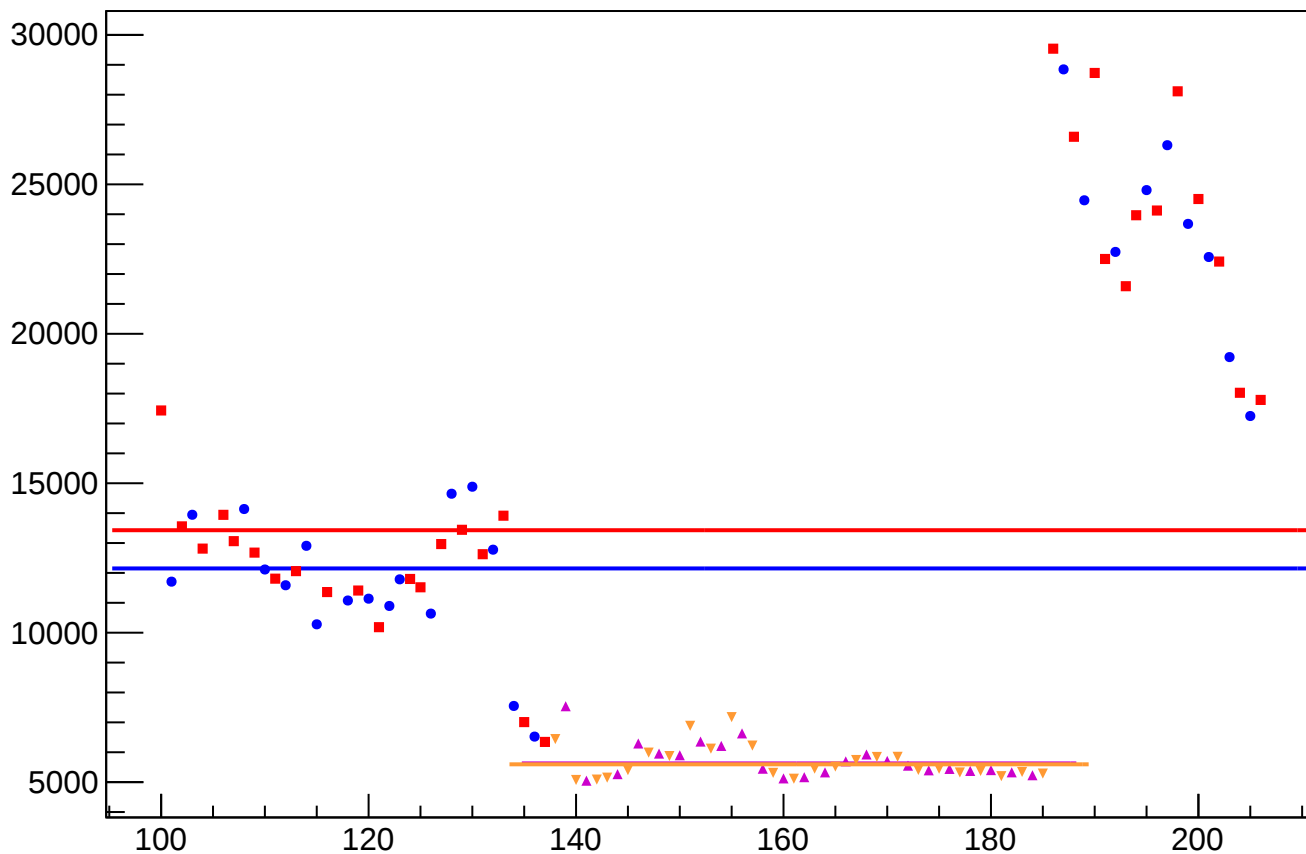
Right: -0.534 ± 2.634 $\chi^2/\text{NDF}: 58.8/56$

In: 0.873 ± 1.271 $\chi^2/\text{NDF}: 62.3/48$

Out: 4.682 ± 1.237 $\chi^2/\text{NDF}: 91.3/55$

All: 2.830 ± 0.886 $\chi^2/\text{NDF}: 158.2/104$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12149.724 $\pm$ 2.621 χ^2 /NDF: 4199780.5/25

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF: 283998.1/24

Right Out: 13428.564 $\pm$ 2.648 χ^2 /NDF: 4377736.7/30

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

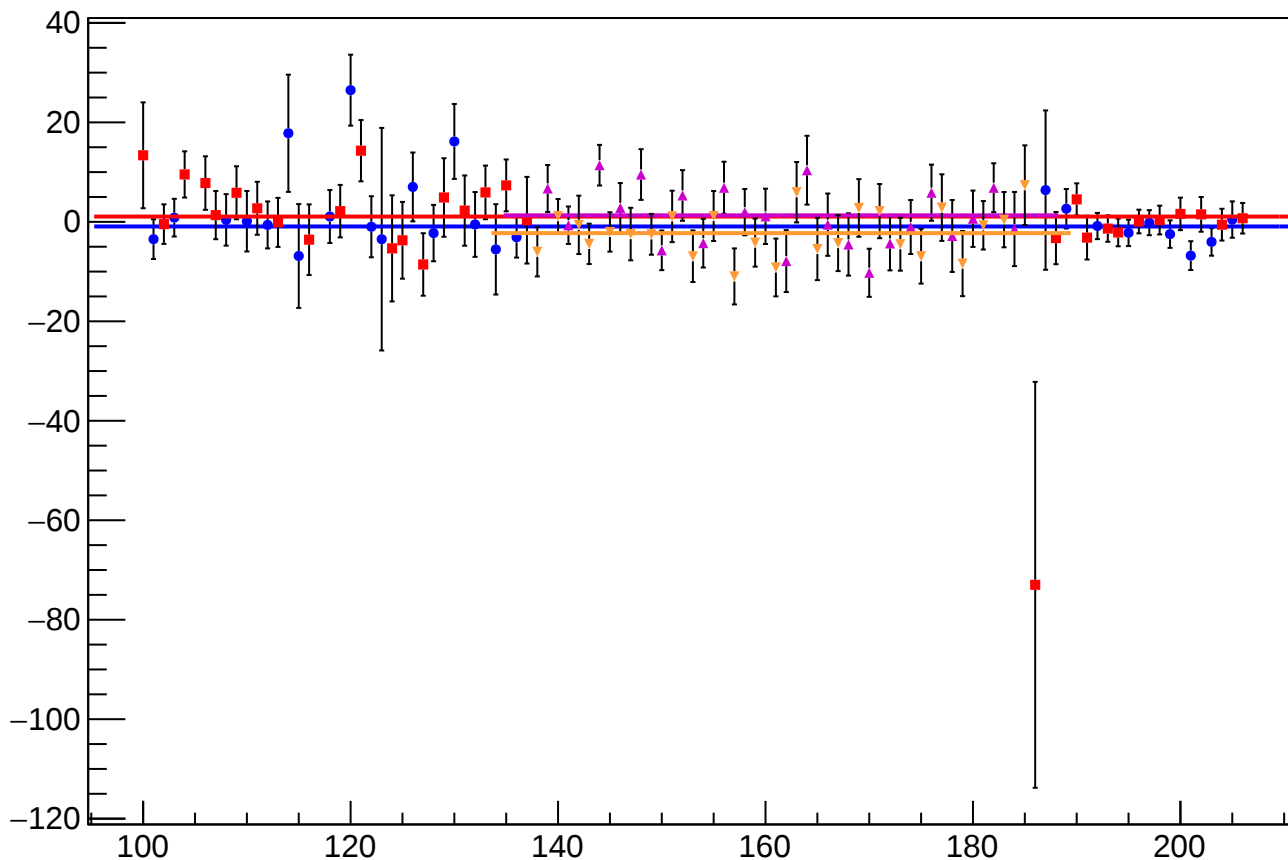
Right: 12782.622 $\pm$ 1.863 χ^2 /NDF: 8695340.4/56

In: 6394.256 $\pm$ 0.899 χ^2 /NDF: 9943864.2/48

Out: 6450.615 $\pm$ 0.874 χ^2 /NDF: 12457020.9/55

All: 6423.208 $\pm$ 0.627 χ^2 /NDF: 22402905.1/100

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.930 $\pm$ 0.825 χ^2/NDF : 32.7/25

Left Out: -2.268 $\pm$ 1.029 χ^2/NDF : 15.4/24

Right Out: 1.064 $\pm$ 0.769 χ^2/NDF : 26.8/30

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

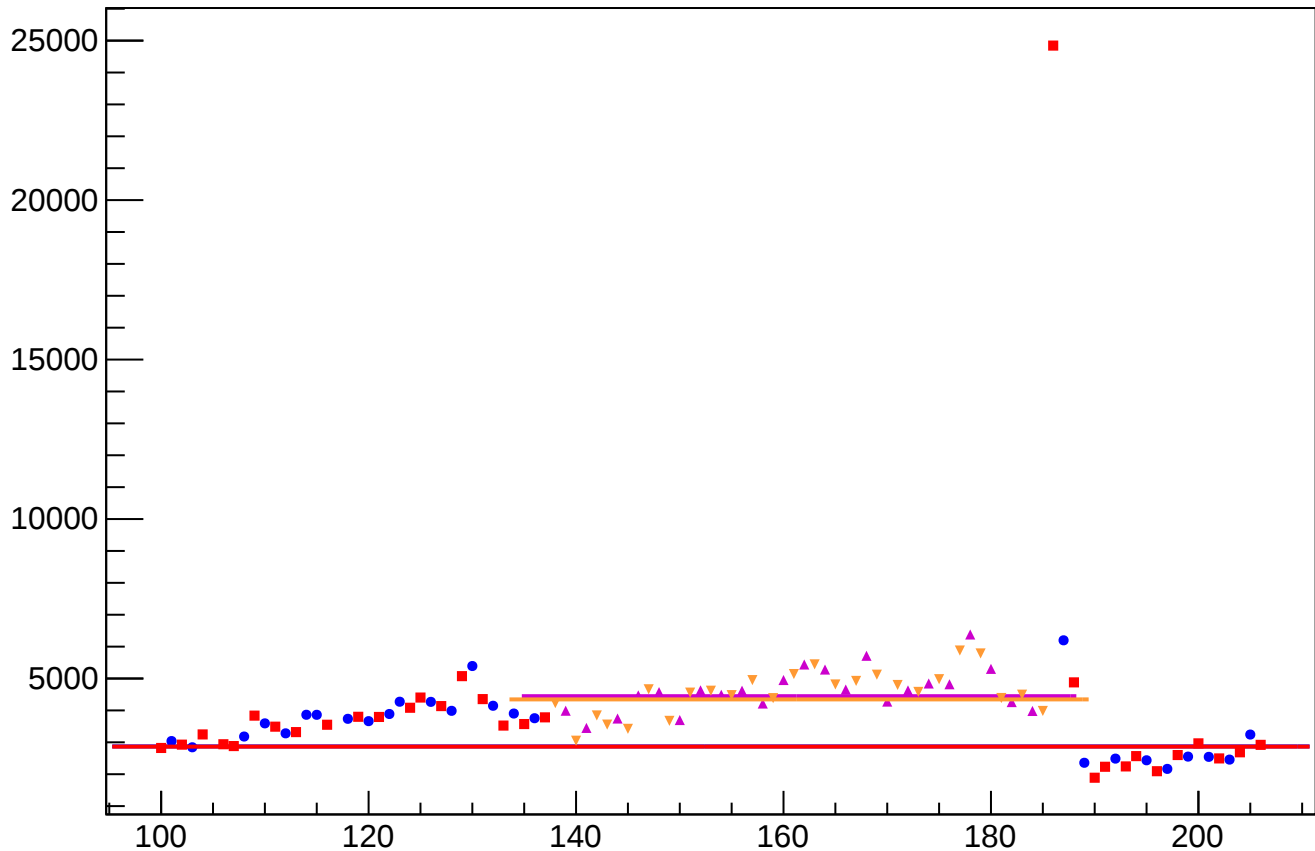
Right: 0.137 $\pm$ 0.562 χ^2/NDF : 62.6/56

In: -0.104 $\pm$ 0.655 χ^2/NDF : 66.2/48

Out: -0.128 $\pm$ 0.616 χ^2/NDF : 48.9/55

All: -0.117 $\pm$ 0.449 χ^2/NDF : 115.1/104

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2871.552+/-0.583 χ^2/NDF : 1293575.5/25

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 2864.487+/-0.544 χ^2/NDF : 2264459.1/30

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

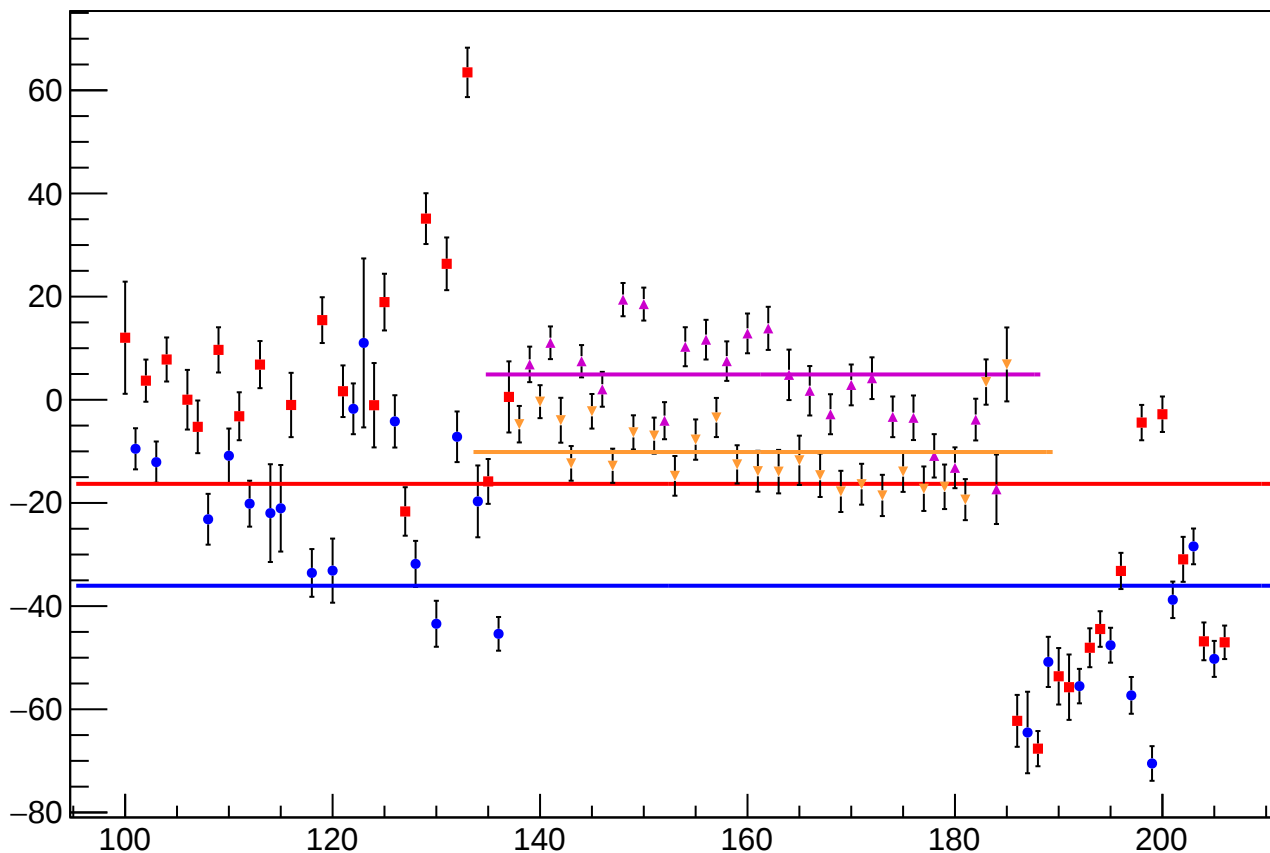
Right: 2867.771+/-0.398 χ^2/NDF : 3558113.2/56

In: 3453.427+/-0.463 χ^2/NDF : 4691476.1/48

Out: 3394.558+/-0.436 χ^2/NDF : 5922478.2/55

All: 3422.195+/-0.317 χ^2/NDF : 10622532.4/101

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -36.047 ± 0.864 χ^2/NDF : 507.4/25

Left Out: -10.125 ± 0.775 χ^2/NDF : 67.9/24

Right Out: -16.298 ± 0.802 χ^2/NDF : 1474.9/30

Left In: 4.911 ± 0.797 χ^2/NDF : 127.9/22

Left: -2.814 ± 0.556 χ^2/NDF : 378.7/47

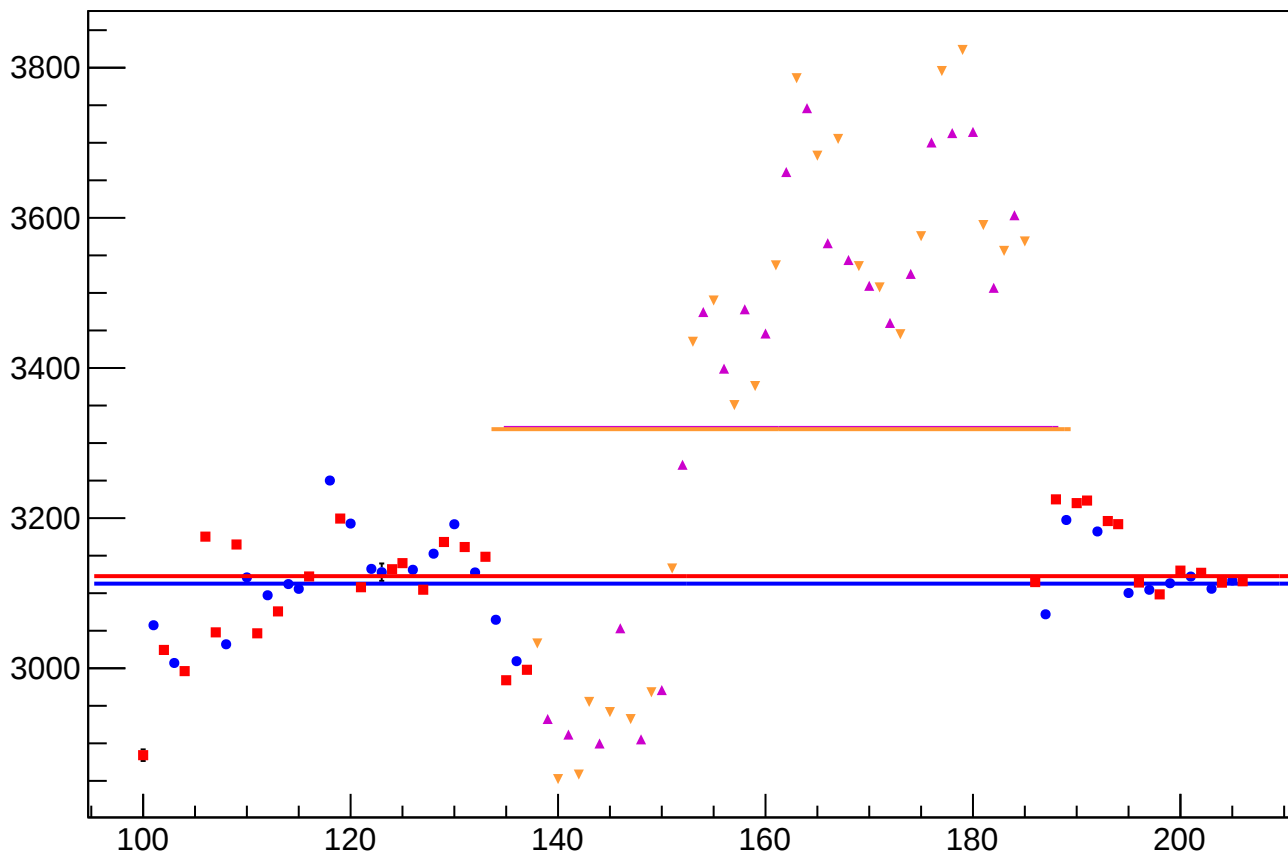
Right: -25.435 ± 0.588 χ^2/NDF : 2263.0/56

In: -13.920 ± 0.586 χ^2/NDF : 1849.1/48

Out: -13.108 ± 0.557 χ^2/NDF : 1573.5/55

All: -13.494 ± 0.404 χ^2/NDF : 3423.6/104

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3112.735 $\pm$ 0.611 χ^2 /NDF: 9000.1/25

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3122.711 $\pm$ 0.567 χ^2 /NDF: 13750.9/30

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

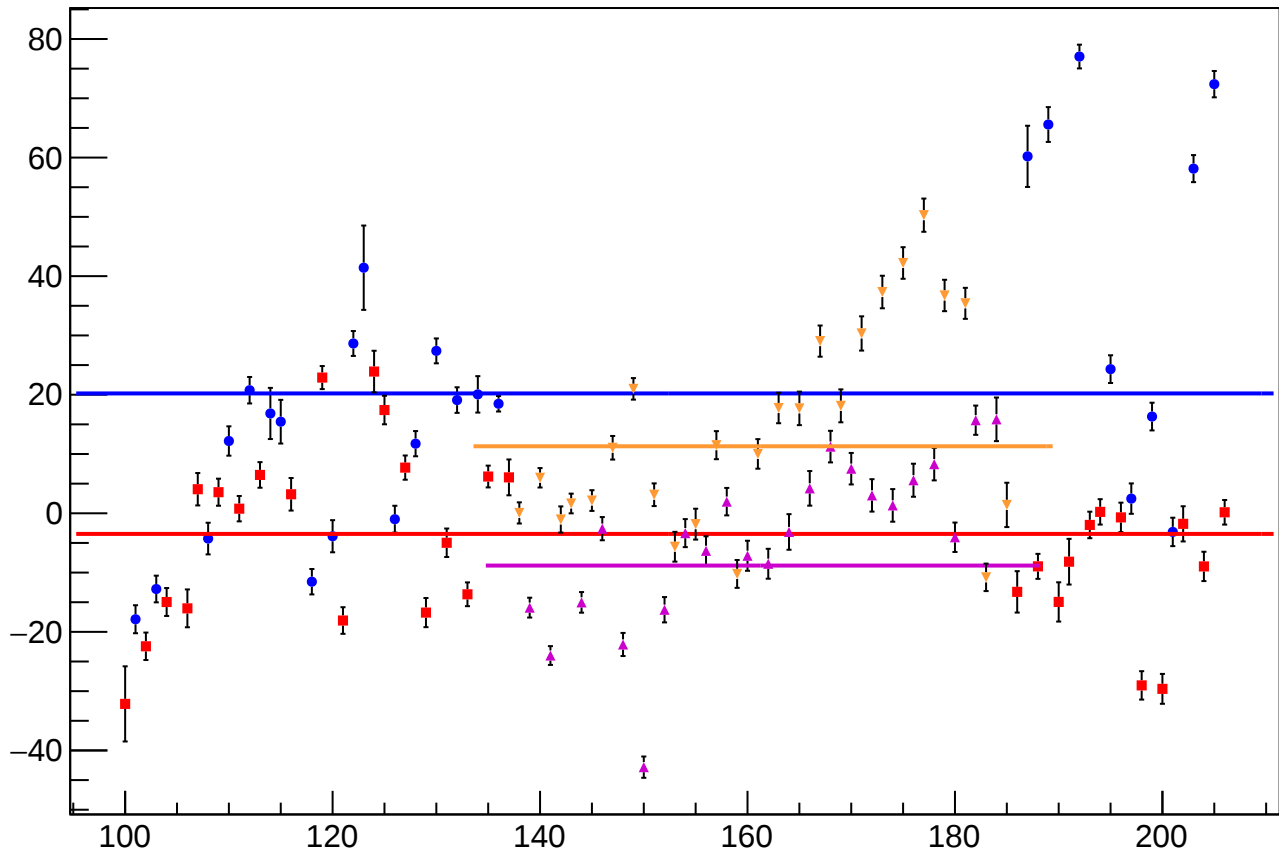
Right: 3118.096 $\pm$ 0.416 χ^2 /NDF: 22894.2/56

In: 3224.799 $\pm$ 0.414 χ^2 /NDF:358904.0/48

Out: 3223.878 $\pm$ 0.394 χ^2 /NDF:413067.1/55

All: 3224.315 $\pm$ 0.286 χ^2 /NDF: 771973.7/104

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 20.217 ± 0.464 $\chi^2/\text{NDF}: 3092.8/25$

Left Out: 11.305 ± 0.454 $\chi^2/\text{NDF}: 1144.3/24$

Right Out: -3.478 ± 0.438 $\chi^2/\text{NDF}: 923.1/30$

Left In: -8.815 ± 0.475 $\chi^2/\text{NDF}: 942.2/22$

Left: 1.711 ± 0.328 $\chi^2/\text{NDF}: 3023.6/47$

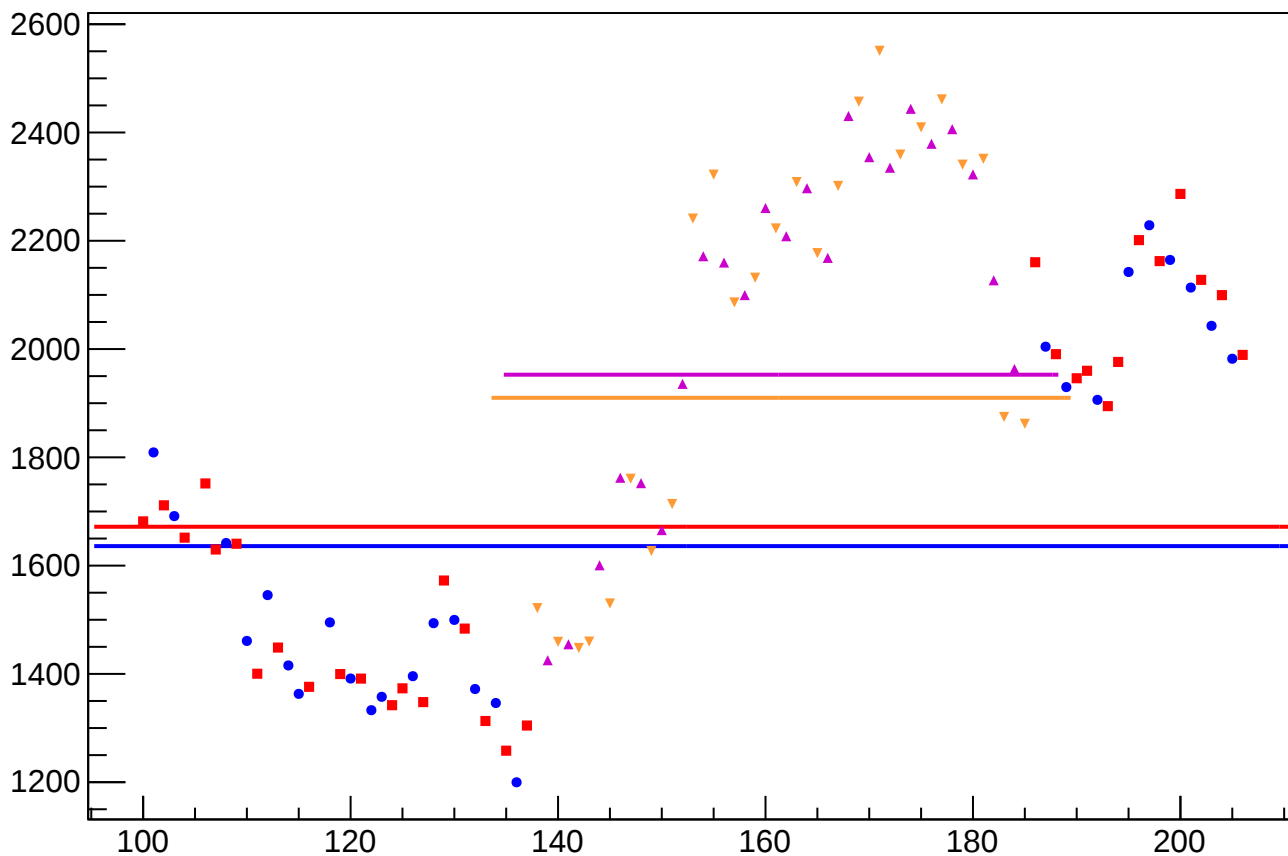
Right: 7.686 ± 0.318 $\chi^2/\text{NDF}: 5396.0/56$

In: 6.057 ± 0.332 $\chi^2/\text{NDF}: 5945.7/48$

Out: 3.648 ± 0.315 $\chi^2/\text{NDF}: 2617.0/55$

All: 4.790 ± 0.229 $\chi^2/\text{NDF}: 8590.4/104$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1636.019 $\pm$ 0.328 χ^2 /NDF: 982421.8/25

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1671.816 $\pm$ 0.310 χ^2 /NDF: 1076584.3/30

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

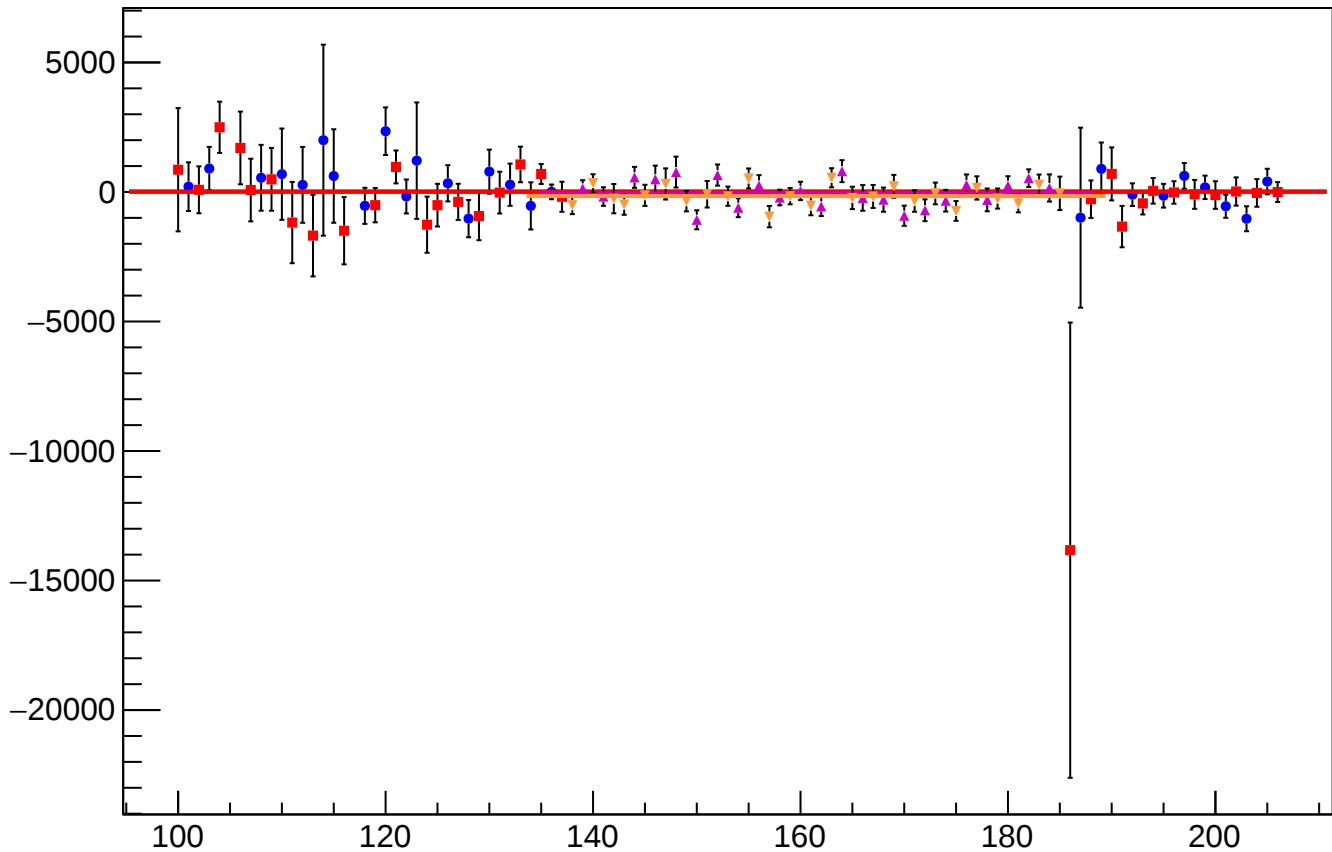
Right: 1654.950 $\pm$ 0.225 χ^2 /NDF: 2065306.2/56

In: 1790.441 $\pm$ 0.235 χ^2 /NDF:2502270.5/48

Out: 1786.604 $\pm$ 0.223 χ^2 /NDF:2761299.8/55

All: 1788.422 $\pm$ 0.162 χ^2 /NDF: 5263710.8/10

asym_sam1_mean vs Slug, Sign Corrected



Right In: 16.326 ± 124.871 χ^2/NDF : 22.6/25

Left Out: -157.242 ± 80.796 χ^2/NDF : 22.0/24

Right Out: 8.792 ± 120.346 χ^2/NDF : 29.9/30

Left In: -58.934 ± 82.584 χ^2/NDF : 38.5/22

Left: -109.164 ± 57.753 χ^2/NDF : 61.3/47

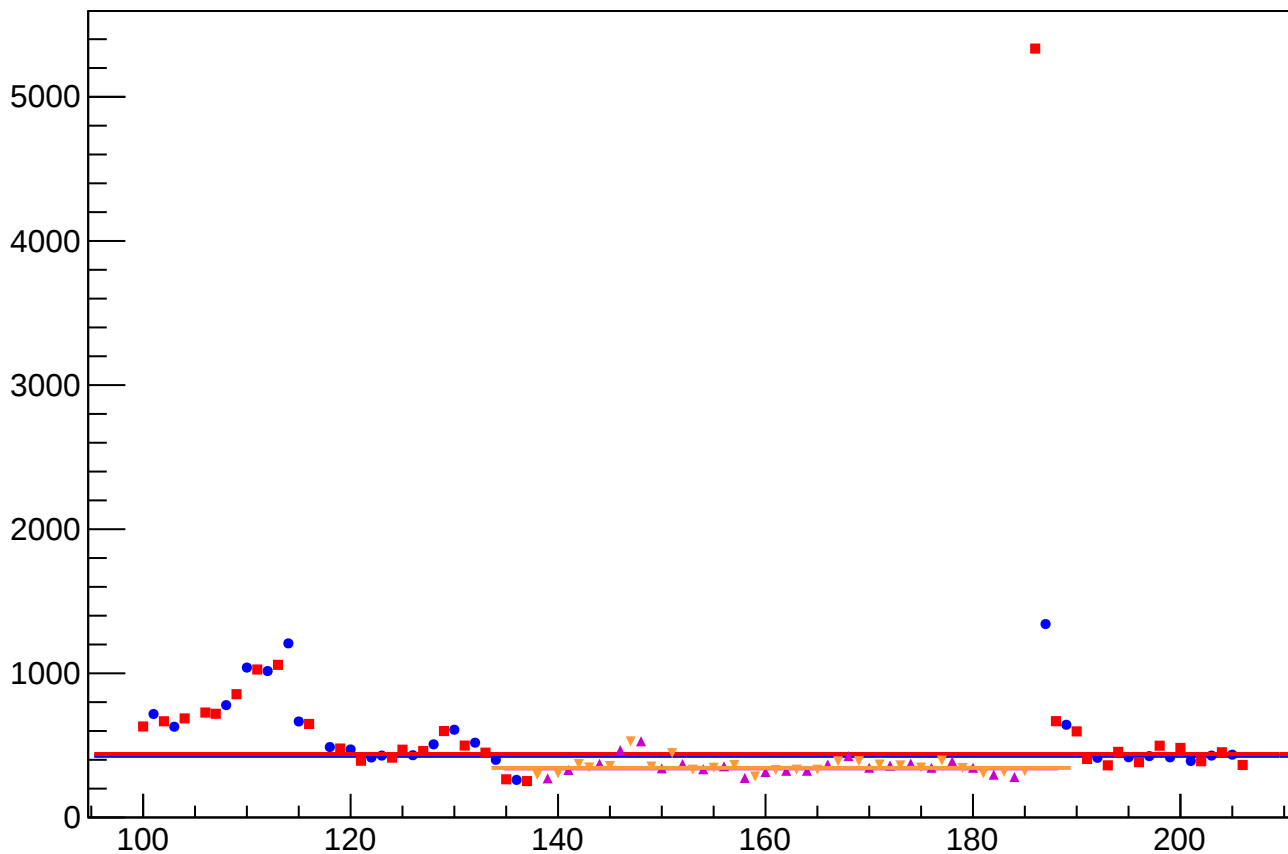
Right: 12.420 ± 86.653 χ^2/NDF : 52.4/56

In: -36.033 ± 68.883 χ^2/NDF : 61.4/48

Out: -105.657 ± 67.080 χ^2/NDF : 53.2/55

All: -71.767 ± 48.058 χ^2/NDF : 115.1/104

asym_sam1_rms vs Slug, Sign Corrected



Right In: 427.476+/-0.088 χ^2/NDF : 2252716.2/25

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 440.282+/-0.085 χ^2/NDF : 3146716.2/30

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

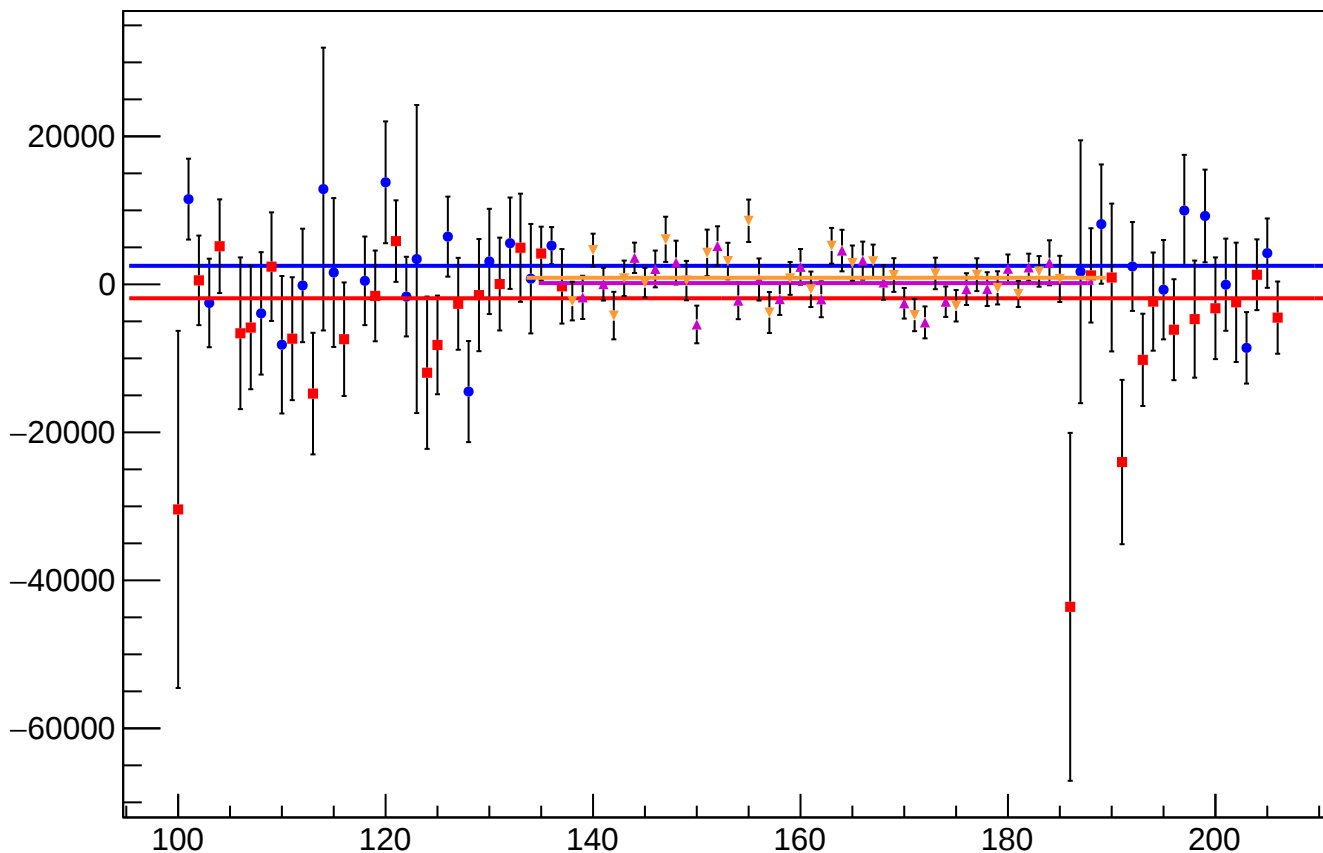
Right: 434.115+/-0.061 χ^2/NDF : 5410338.1/56

In: 367.228+/-0.049 χ^2/NDF : 3646600.9/48

Out: 373.781+/-0.047 χ^2/NDF : 4572109.8/55

All: 370.591+/-0.034 χ^2/NDF : 8227999.6/104

asym_sam2_mean vs Slug, Sign Corrected



Right In: 2505.346 $\pm$ 1194.397 χ^2 /NDF: 25.0/25

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -1879.719 $\pm$ 1204.040 χ^2 /NDF: 25.2/30

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

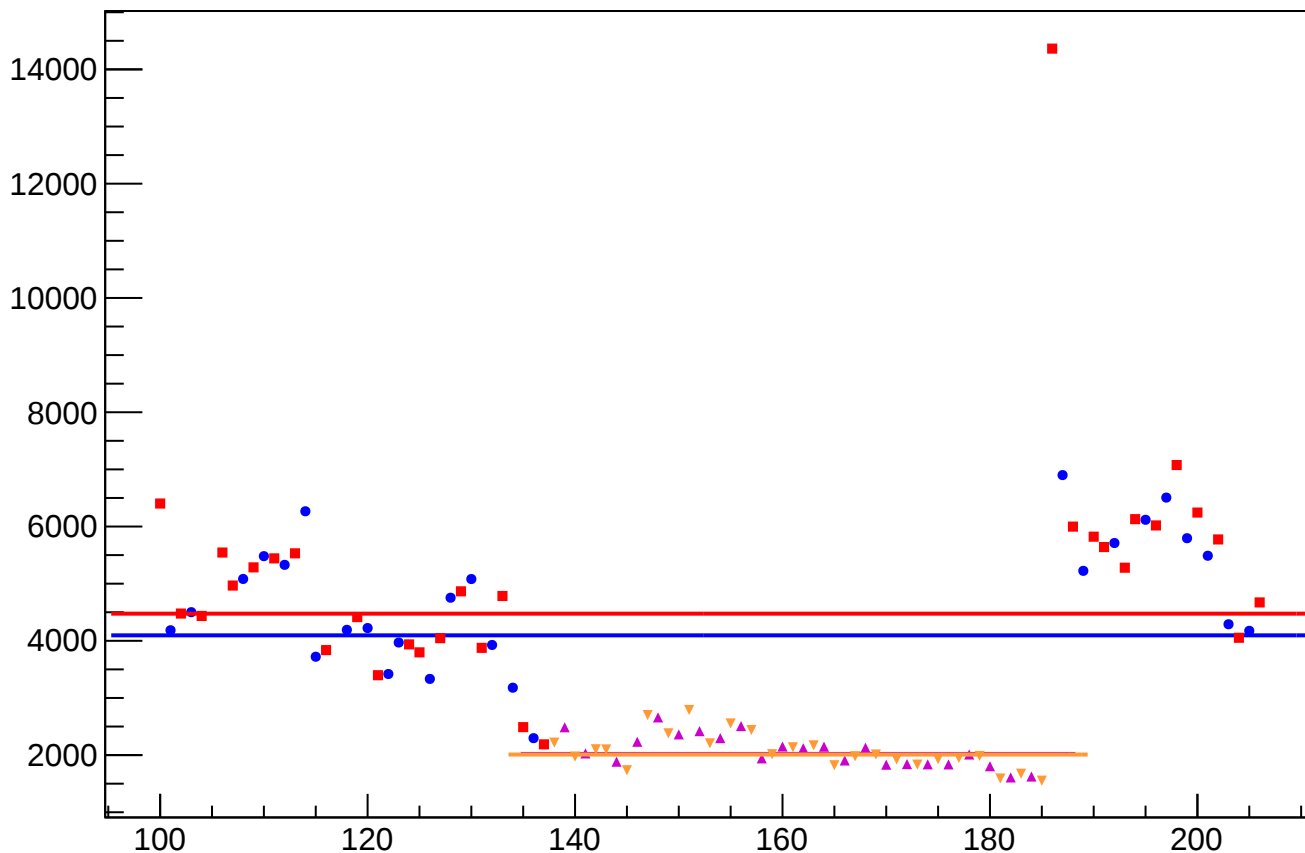
Right: 330.444 $\pm$ 847.955 χ^2 /NDF: 56.9/56

In: 506.206 $\pm$ 451.802 χ^2 /NDF:61.5/48

Out: 519.692 $\pm$ 440.459 χ^2 /NDF:67.7/55

All: 513.120 $\pm$ 315.385 χ^2 /NDF: 129.2/104

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4095.865 $\pm$ 0.845 χ^2 /NDF: 2222480.4/25

Left Out: 2009.631 $\pm$ 0.335 χ^2 /NDF: 709977.6/24

Right Out: 4475.348 $\pm$ 0.851 χ^2 /NDF: 2496333.9/30

Left In: 2020.365 $\pm$ 0.345 χ^2 /NDF: 573483.0/22

Left: 2014.833 $\pm$ 0.240 χ^2 /NDF: 1283959.2/47

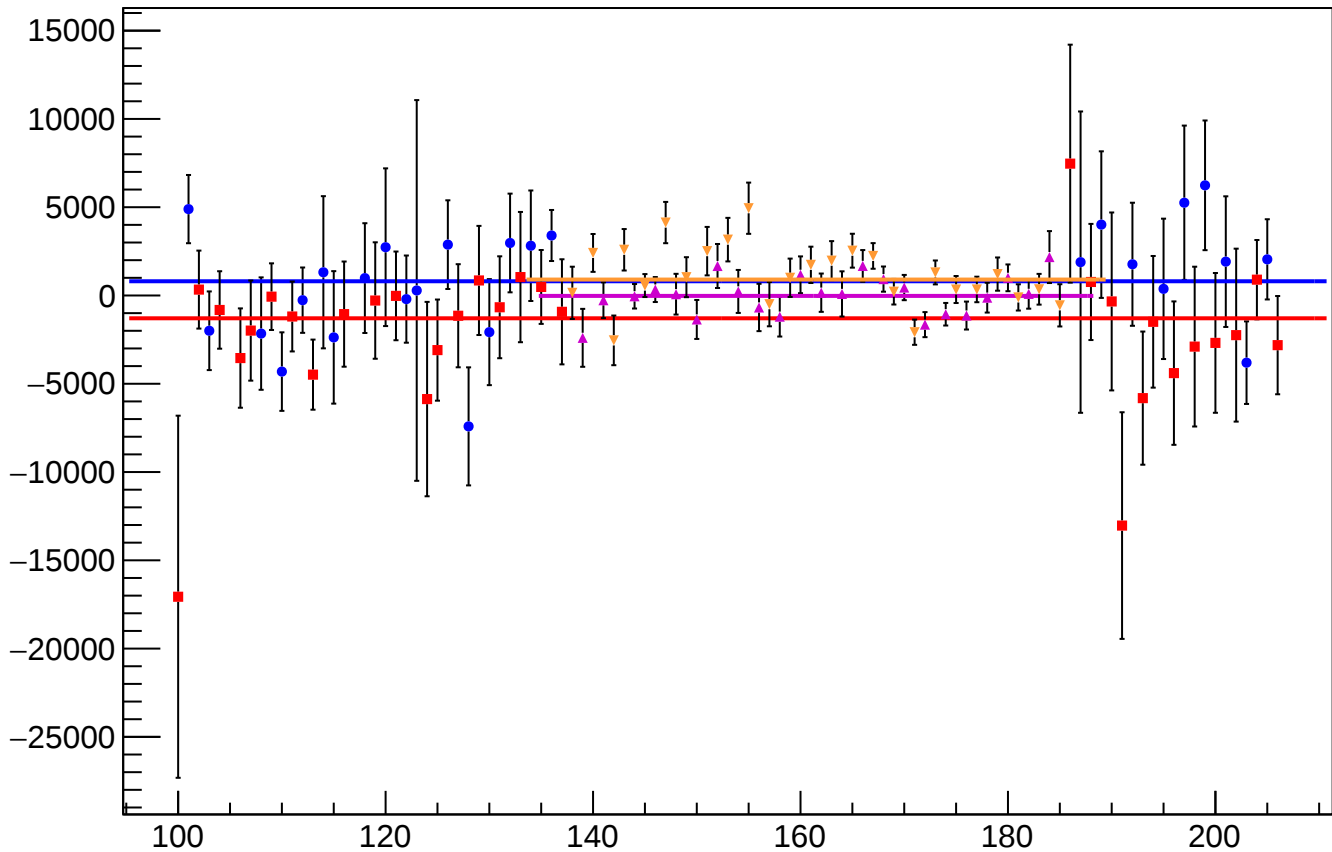
Right: 4284.080 $\pm$ 0.600 χ^2 /NDF: 4818948.5/56

In: 2317.342 $\pm$ 0.319 χ^2 /NDF: 7971017.7/48

Out: 2339.599 $\pm$ 0.311 χ^2 /NDF: 10471412.3/55

All: 2328.753 $\pm$ 0.223 χ^2 /NDF: 18444918.6/102

asym_sam3_mean vs Slug, Sign Corrected



Right In: 805.712 $\pm$ 544.406 χ^2 /NDF: 33.7/25

Left Out: 902.091 $\pm$ 185.850 χ^2 /NDF: 63.5/24

Right Out: -1291.836 $\pm$ 526.996 χ^2 /NDF: 18.8/30

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

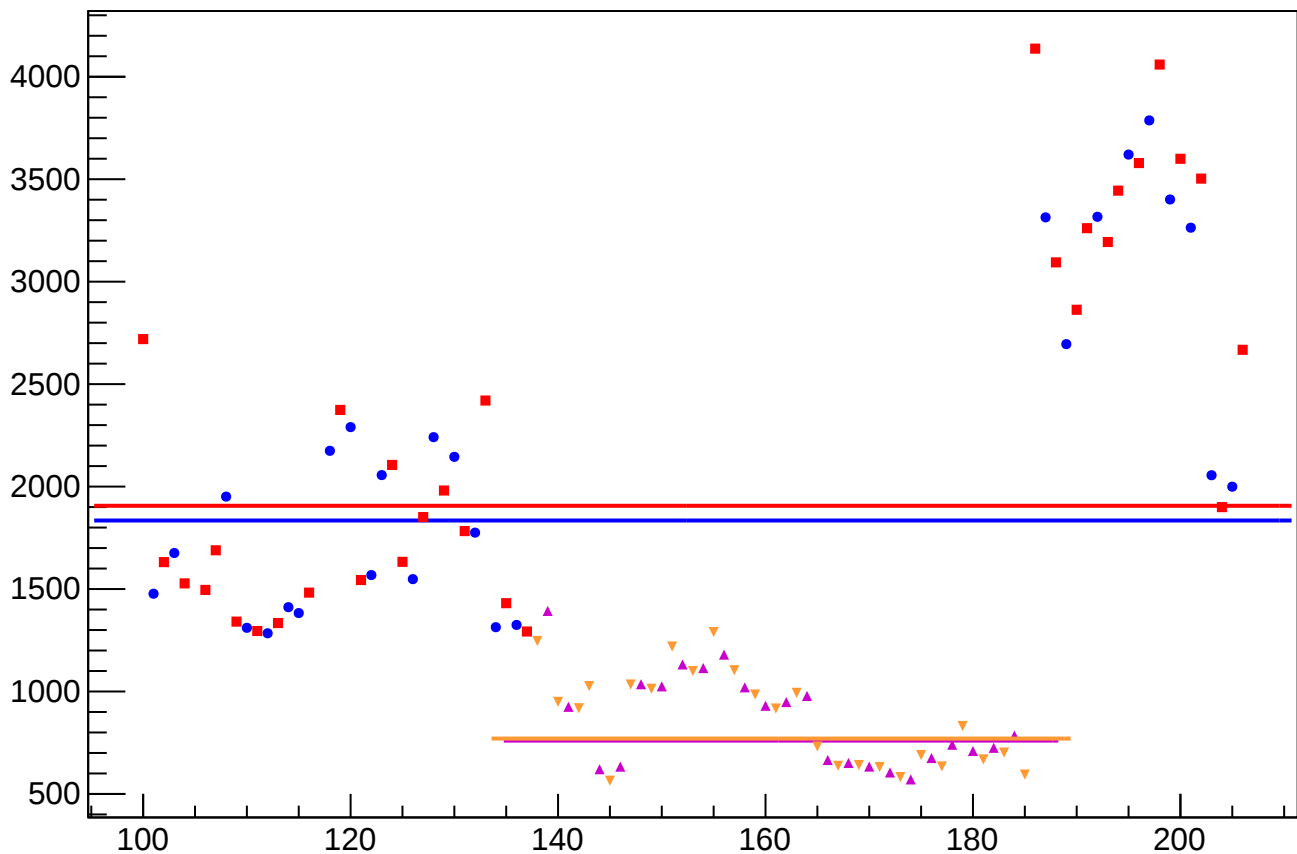
Right: -277.137 $\pm$ 378.648 χ^2 /NDF: 60.2/56

In: 64.939 $\pm$ 177.818 χ^2 /NDF: 64.0/48

Out: 659.417 $\pm$ 175.270 χ^2 /NDF: 97.7/55

All: 366.467 $\pm$ 124.826 χ^2 /NDF: 167.4/104

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1834.511 $\pm$ 0.385 χ^2 /NDF: 2868960.2/25

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF: 2287655.1/24

Right Out: 1906.302 $\pm$ 0.373 χ^2 /NDF: 3804637.5/30

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

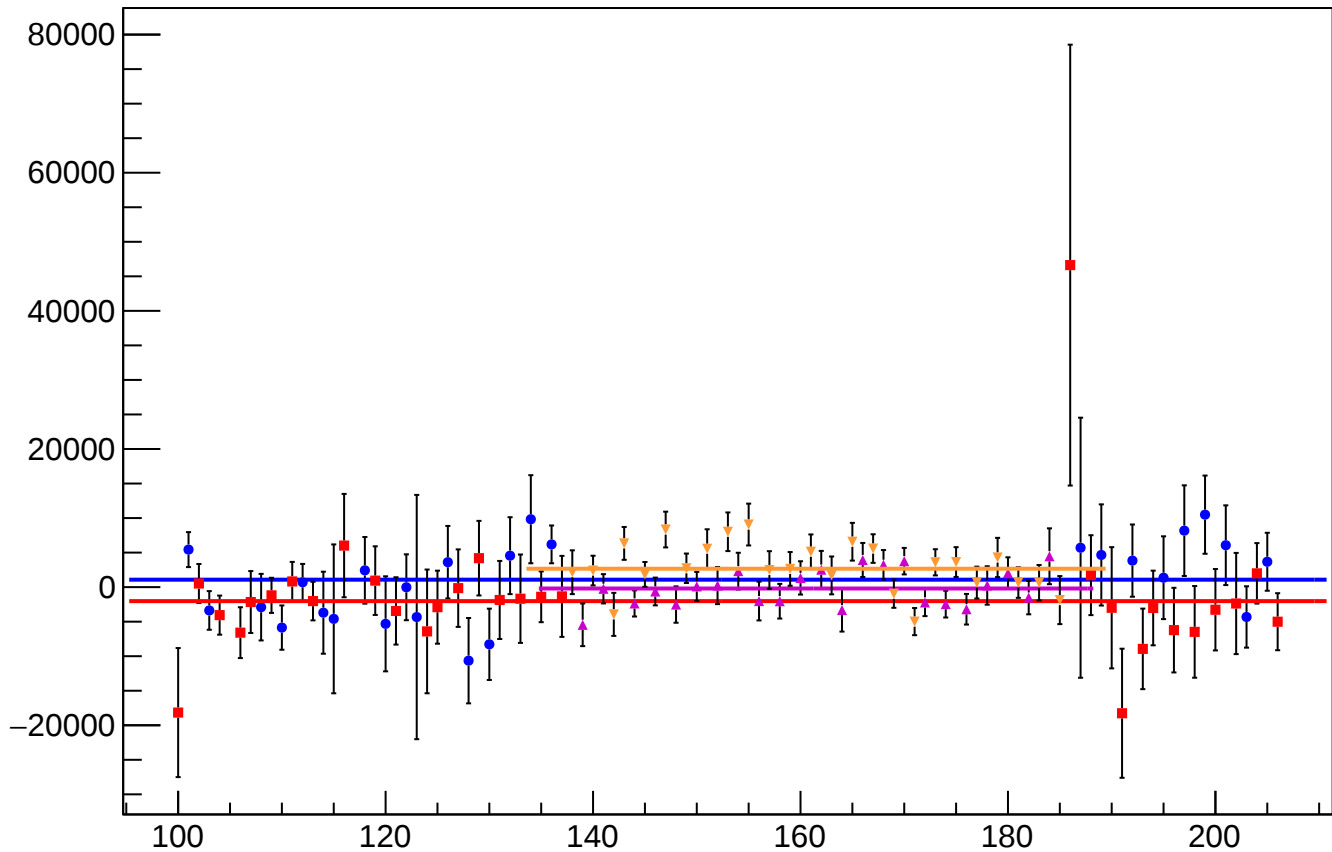
Right: 1871.573 $\pm$ 0.268 χ^2 /NDF: 6691552.5/56

In: 874.949 $\pm$ 0.126 χ^2 /NDF: 11811164.6/48

Out: 895.973 $\pm$ 0.124 χ^2 /NDF: 14357406.7/55

All: 885.613 $\pm$ 0.088 χ^2 /NDF: 26182752.2/10

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1079.078+/-883.297 χ^2/NDF : 32.9/25

Left Out: 2665.587+/-479.773 χ^2/NDF : 49.2/24

Right Out: -2026.135+/-818.315 χ^2/NDF : 19.9/30

Left In: -199.371+/-492.082 χ^2/NDF : 25.8/22

Left: 1269.388+/-343.520 χ^2/NDF : 92.4/47

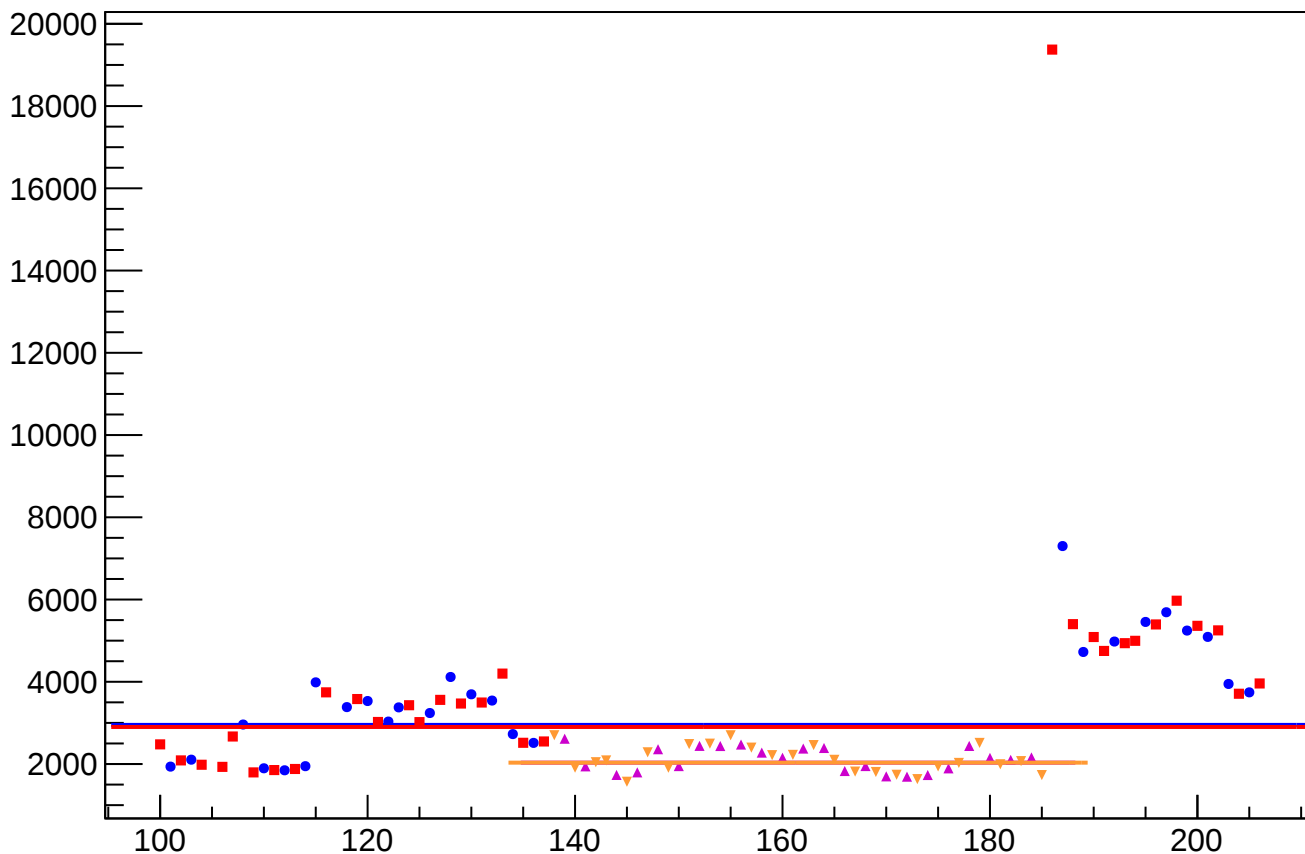
Right: -591.939+/-600.296 χ^2/NDF : 59.4/56

In: 103.429+/-429.876 χ^2/NDF : 60.3/48

Out: 1465.404+/-413.884 χ^2/NDF : 93.6/55

All: 810.221+/-298.153 χ^2/NDF : 159.0/104

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2951.370 $\pm$ 0.625 χ^2 /NDF: 3364148.6/25

Left Out: 2033.337 $\pm$ 0.339 χ^2 /NDF: 824062.2/24

Right Out: 2901.253 $\pm$ 0.579 χ^2 /NDF: 4866409.6/30

Left In: 2032.655 $\pm$ 0.348 χ^2 /NDF: 652763.7/22

Left: 2033.004 $\pm$ 0.243 χ^2 /NDF: 1476827.9/47

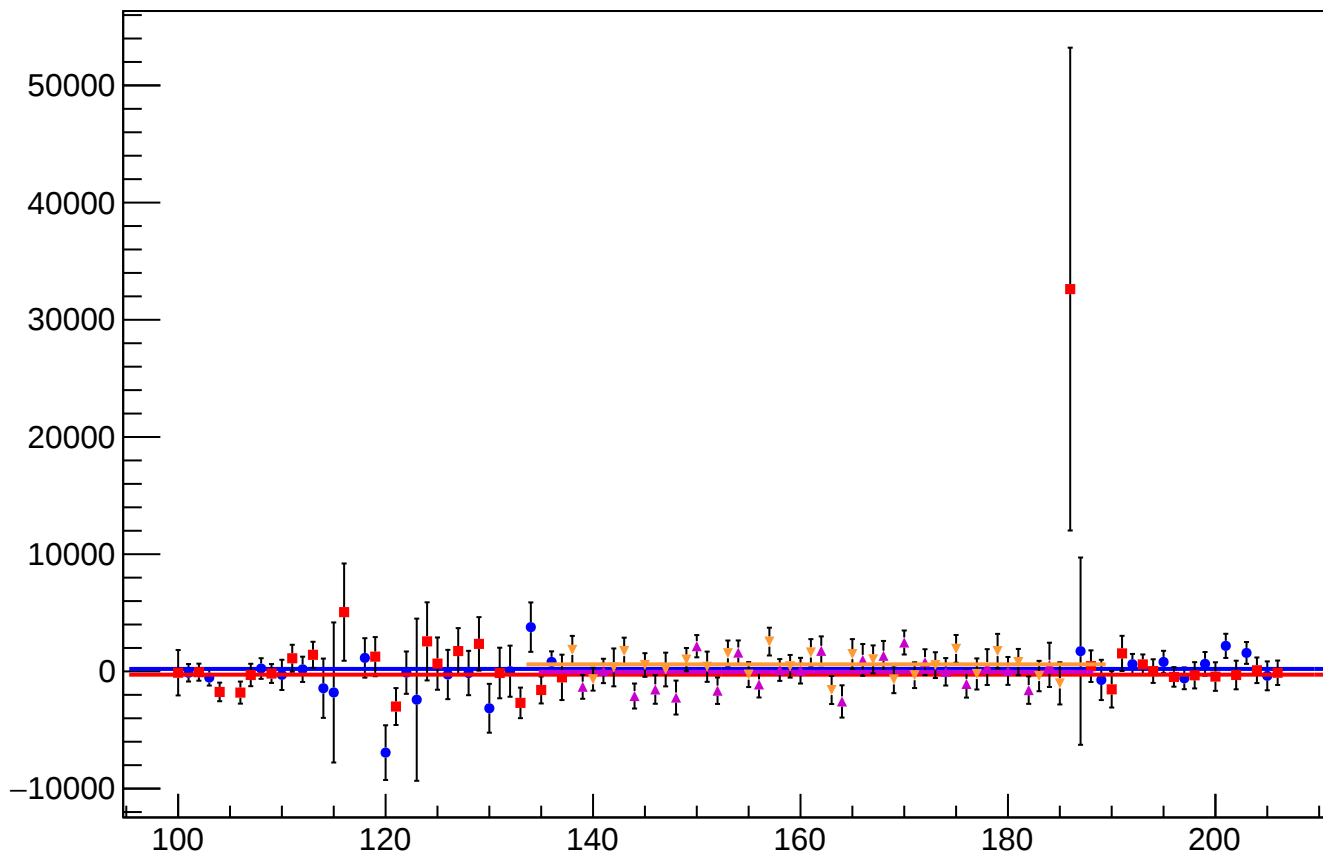
Right: 2924.400 $\pm$ 0.424 χ^2 /NDF: 8234023.1/56

In: 2250.251 $\pm$ 0.304 χ^2 /NDF: 5668070.4/48

Out: 2255.357 $\pm$ 0.293 χ^2 /NDF: 7364754.5/55

All: 2252.901 $\pm$ 0.211 χ^2 /NDF: 13032971.4/111

asym_sam5_mean vs Slug, Sign Corrected



Right In: 211.146 $\pm$ 236.997 χ^2 /NDF: 25.8/25

Left Out: 600.005 $\pm$ 234.968 χ^2 /NDF:18.5/24

Right Out: -277.901 $\pm$ 215.253 χ^2 /NDF: 29.8/30

Left In: -41.559 $\pm$ 240.807 χ^2 /NDF:36.4/22

Left: 287.096 $\pm$ 168.174 χ^2 /NDF: 58.5/47

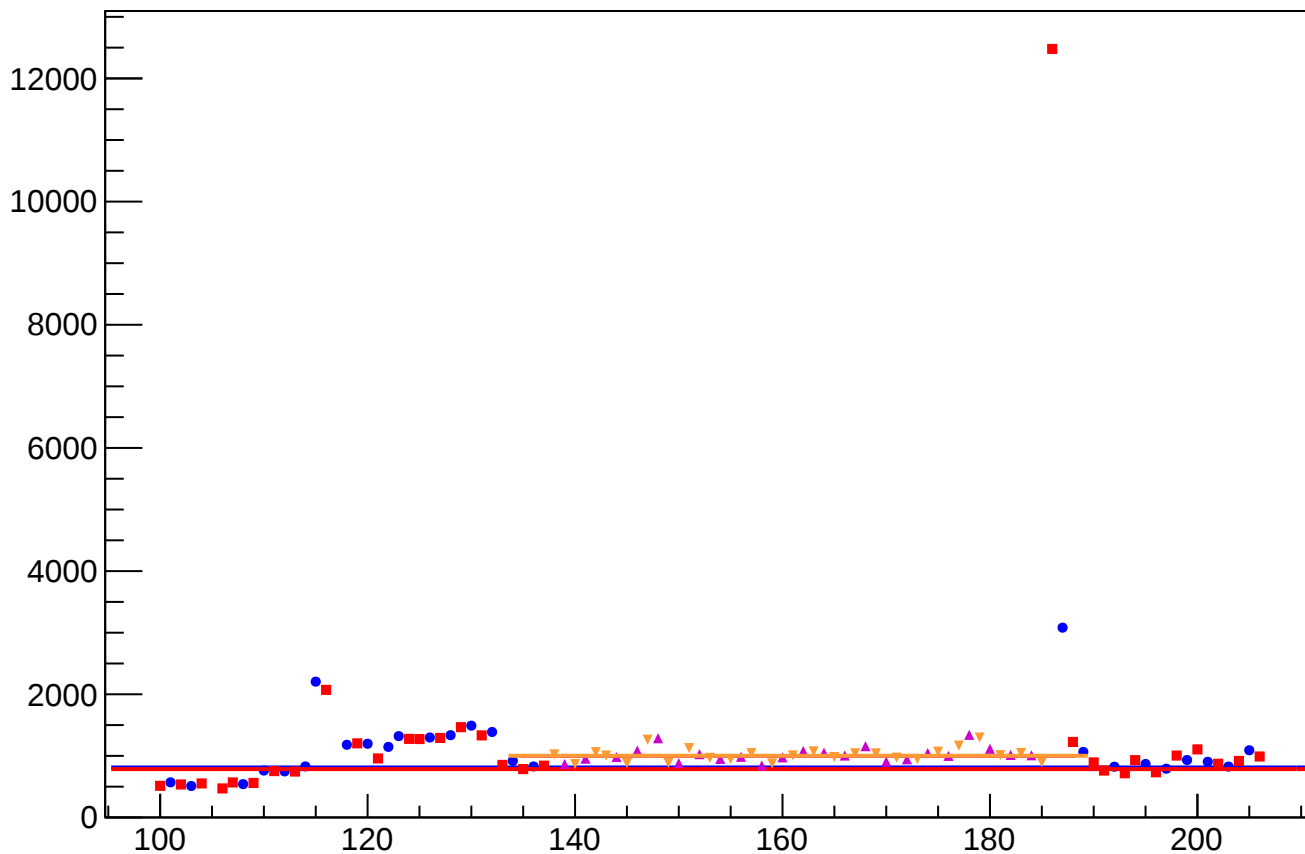
Right: -56.837 $\pm$ 159.341 χ^2 /NDF: 58.0/56

In: 86.808 $\pm$ 168.913 χ^2 /NDF:62.7/48

Out: 122.682 $\pm$ 158.720 χ^2 /NDF:55.9/55

All: 105.860 $\pm$ 115.668 χ^2 /NDF: 118.7/104

asym_sam5_rms vs Slug, Sign Corrected



Right In: 811.602 $\pm$ 0.168 χ^2 /NDF: 2117197.3/25

Left Out: 1001.472 $\pm$ 0.166 χ^2 /NDF: 370299.3/24

Right Out: 784.840 $\pm$ 0.152 χ^2 /NDF: 3122946.7/30

Left In: 998.050 $\pm$ 0.170 χ^2 /NDF: 404656.2/22

Left: 999.803 $\pm$ 0.119 χ^2 /NDF: 775162.3/47

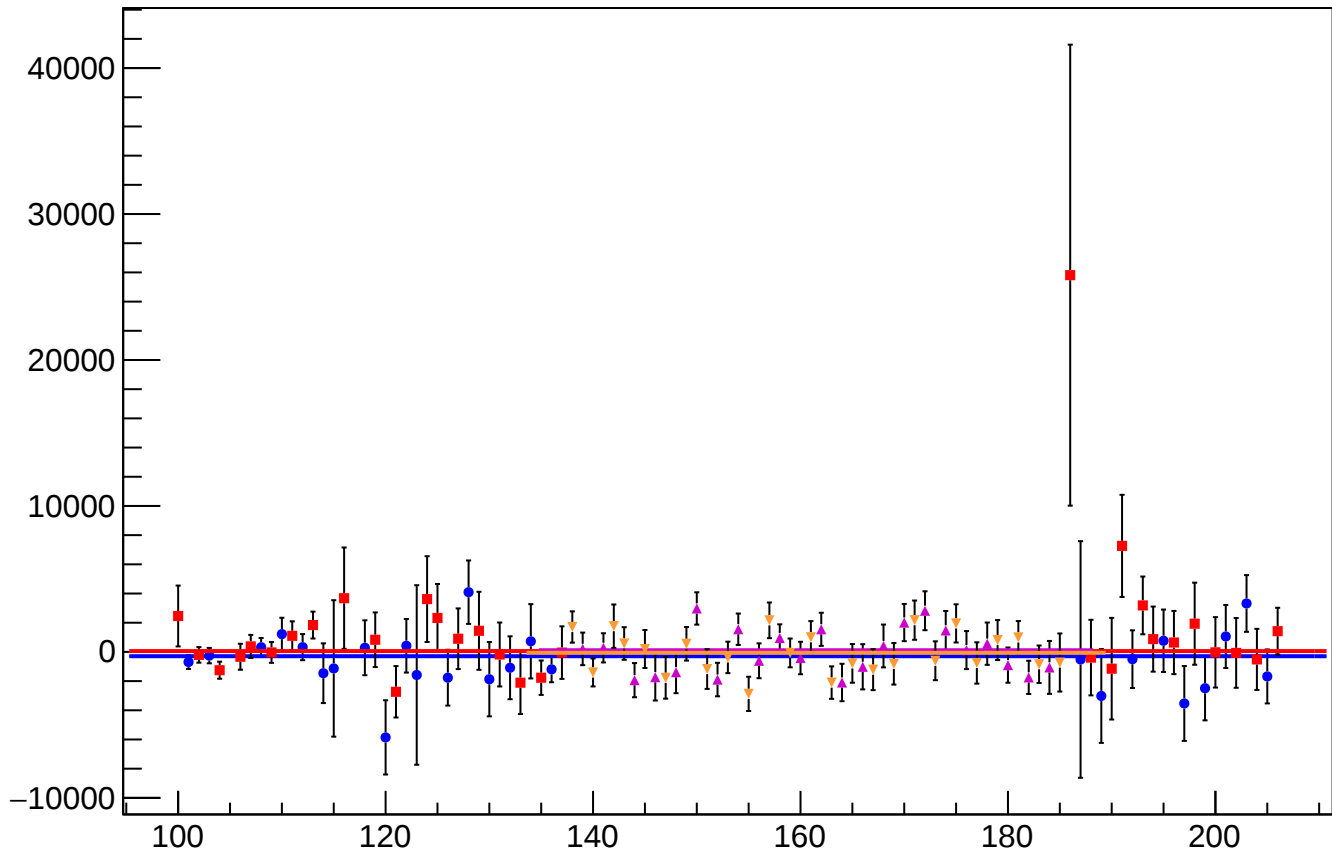
Right: 796.937 $\pm$ 0.113 χ^2 /NDF: 5254118.5/56

In: 903.340 $\pm$ 0.119 χ^2 /NDF: 3130893.5/48

Out: 883.688 $\pm$ 0.112 χ^2 /NDF: 4417560.1/55

All: 892.903 $\pm$ 0.082 χ^2 /NDF: 7562830.6/104

asym_sam6_mean vs Slug, Sign Corrected



Right In: -295.106 ± 238.161 χ^2/NDF : 23.8/25

Left Out: -59.827 ± 246.503 χ^2/NDF : 31.0/24

Right Out: 56.879 ± 232.022 χ^2/NDF : 32.9/30

Left In: 112.398 ± 255.409 χ^2/NDF : 34.9/22

Left: 23.230 ± 177.369 χ^2/NDF : 66.1/47

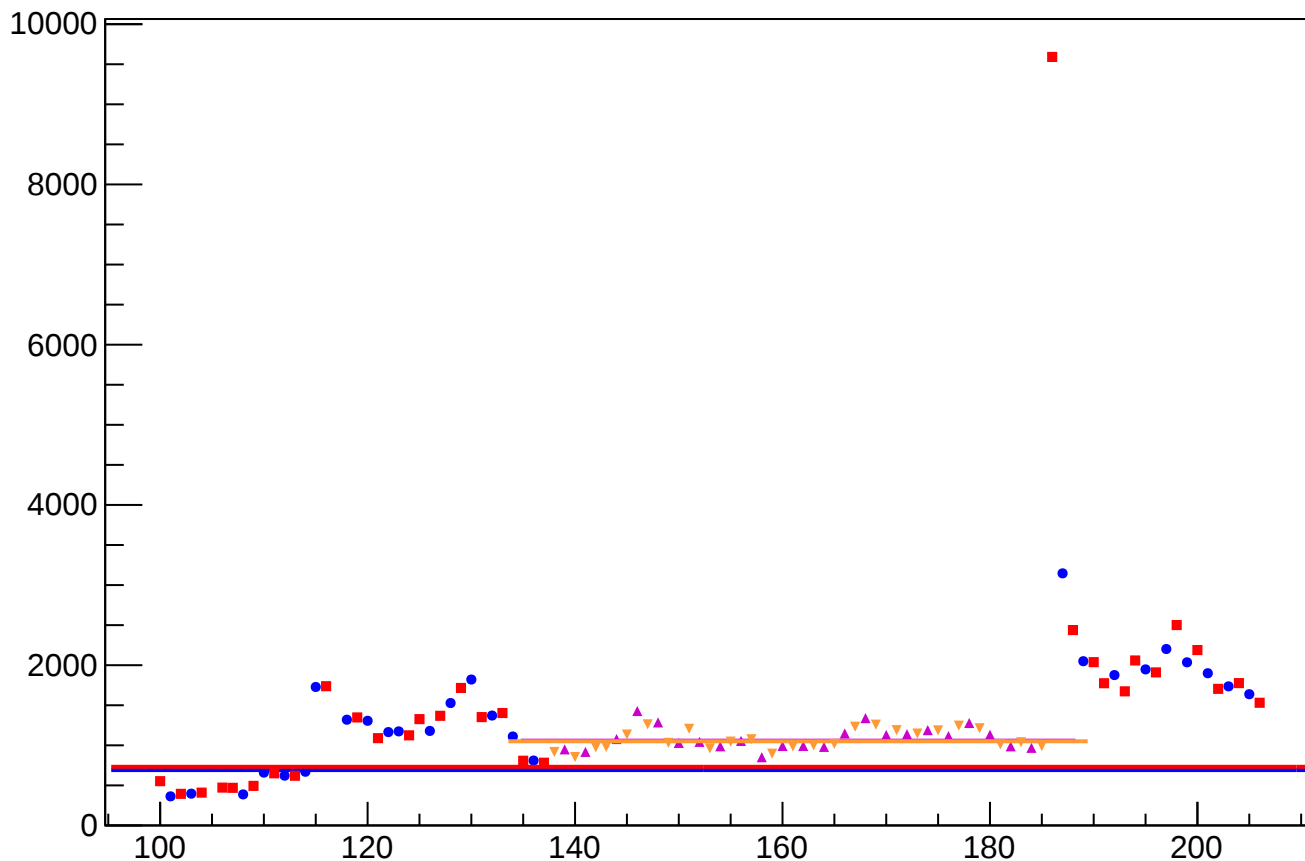
Right: -114.519 ± 166.192 χ^2/NDF : 57.8/56

In: -105.577 ± 174.184 χ^2/NDF : 60.0/48

Out: 2.054 ± 168.952 χ^2/NDF : 64.0/55

All: -50.121 ± 121.275 χ^2/NDF : 124.2/104

asym_sam6_rms vs Slug, Sign Corrected



Right In: 691.245+/-0.168 χ^2/NDF : 8869594.7/25

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 732.052+/-0.164 χ^2/NDF : 10093820.8/30

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

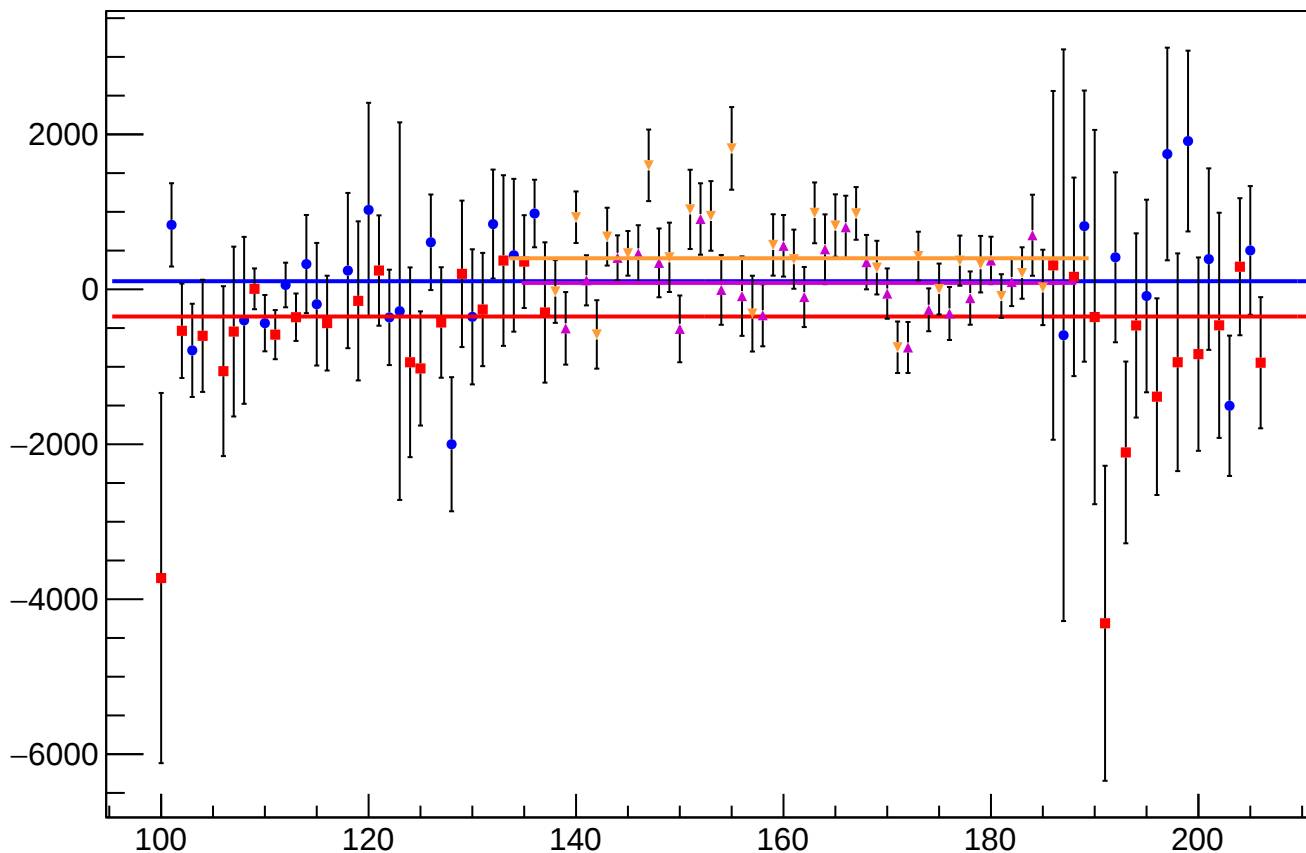
Right: 712.182+/-0.118 χ^2/NDF : 18993540.0/56

In: 861.867+/-0.123 χ^2/NDF : 11605220.2/48

Out: 881.718+/-0.119 χ^2/NDF : 12348440.5/55

All: 872.095+/-0.086 χ^2/NDF : 23967045.4/10

asym_sam7_mean vs Slug, Sign Corrected



Right In: 104.857 $\pm$ 134.522 χ^2/NDF : 27.5/25

Left Out: 400.988 $\pm$ 74.546 χ^2/NDF : 52.1/24

Right Out: -350.980 $\pm$ 122.250 χ^2/NDF : 17.4/30

Left In: 82.890 $\pm$ 76.904 χ^2/NDF : 29.0/22

Left: 246.889 $\pm$ 53.526 χ^2/NDF : 89.9/47

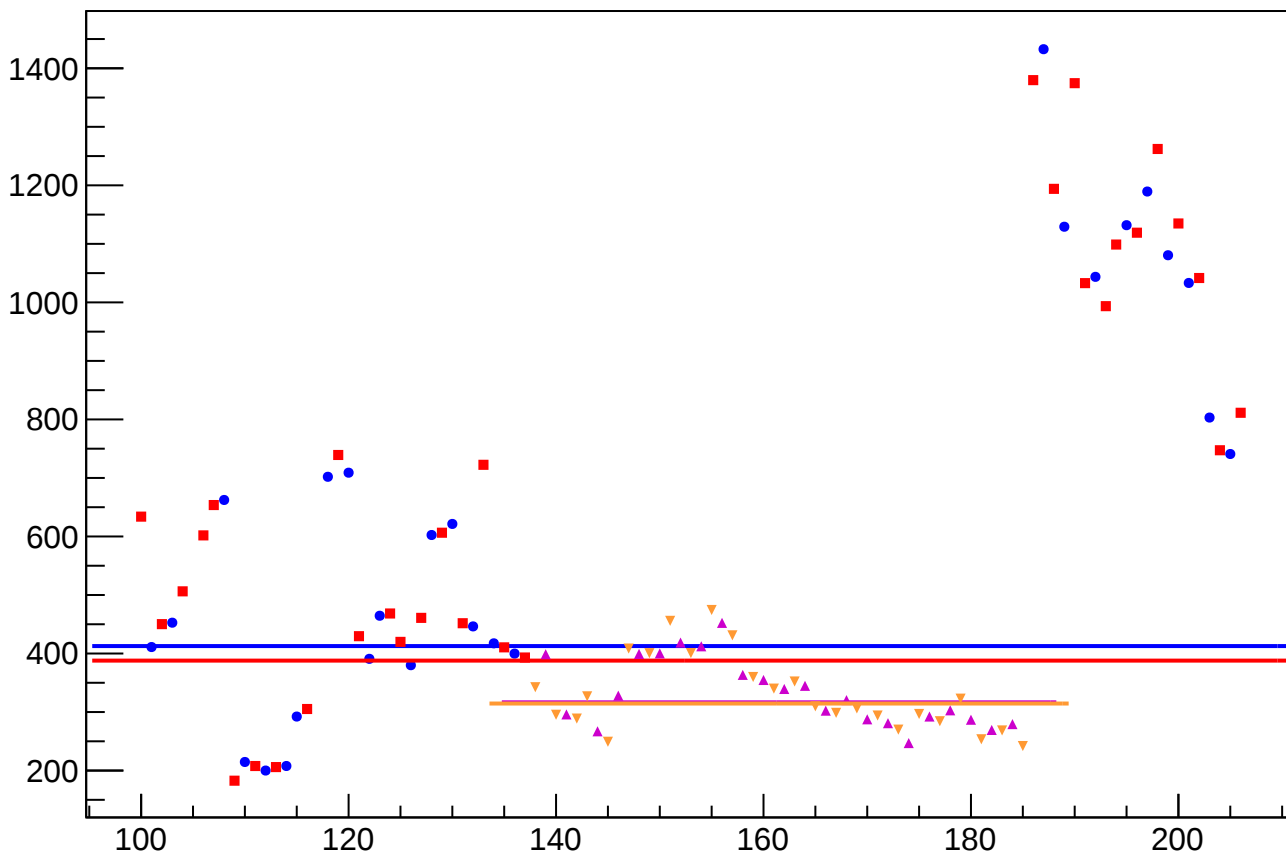
Right: -144.799 $\pm$ 90.472 χ^2/NDF : 51.1/56

In: 88.300 $\pm$ 66.764 χ^2/NDF : 56.5/48

Out: 197.165 $\pm$ 63.647 χ^2/NDF : 97.0/55

All: 145.334 $\pm$ 46.068 χ^2/NDF : 154.9/104

asym_sam7_rms vs Slug, Sign Corrected



Right In: 412.724+/-0.095 χ^2/NDF : 6902257.1/25

Left Out: 314.538+/-0.053 χ^2/NDF : 1112445.6/24

Right Out: 387.888+/-0.086 χ^2/NDF : 9827545.8/30

Left In: 316.647+/-0.054 χ^2/NDF : 920874.0/22

Left: 315.560+/-0.038 χ^2/NDF : 2034094.8/47

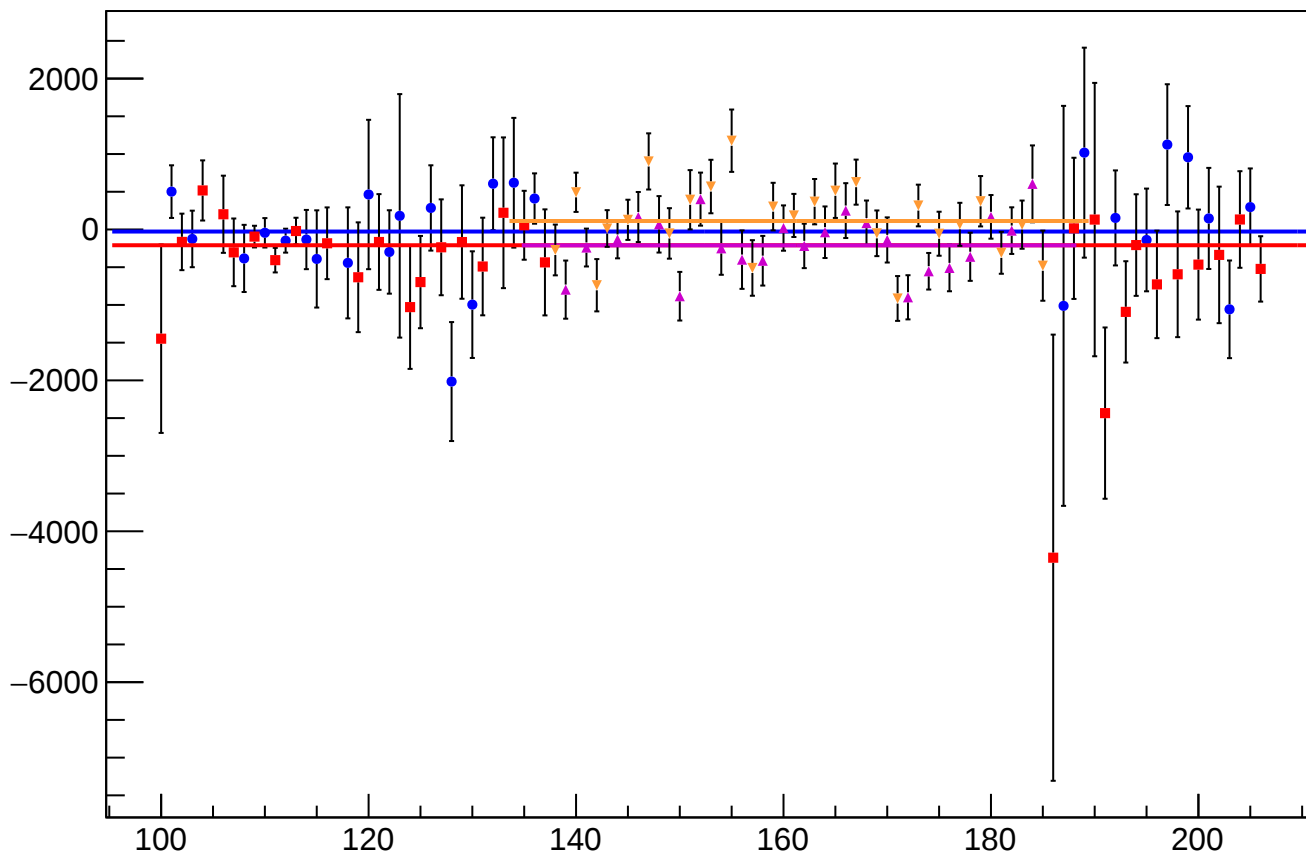
Right: 399.121+/-0.064 χ^2/NDF : 16767140.3/56

In: 340.312+/-0.047 χ^2/NDF : 8592031.3/48

Out: 334.420+/-0.045 χ^2/NDF : 11464827.7/55

All: 337.225+/-0.033 χ^2/NDF : 20065021.1/10

asym_sam8_mean vs Slug, Sign Corrected



Right In: -27.294 ± 84.795 χ^2/NDF : 24.7/25

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -208.905 ± 72.576 χ^2/NDF : 20.4/30

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

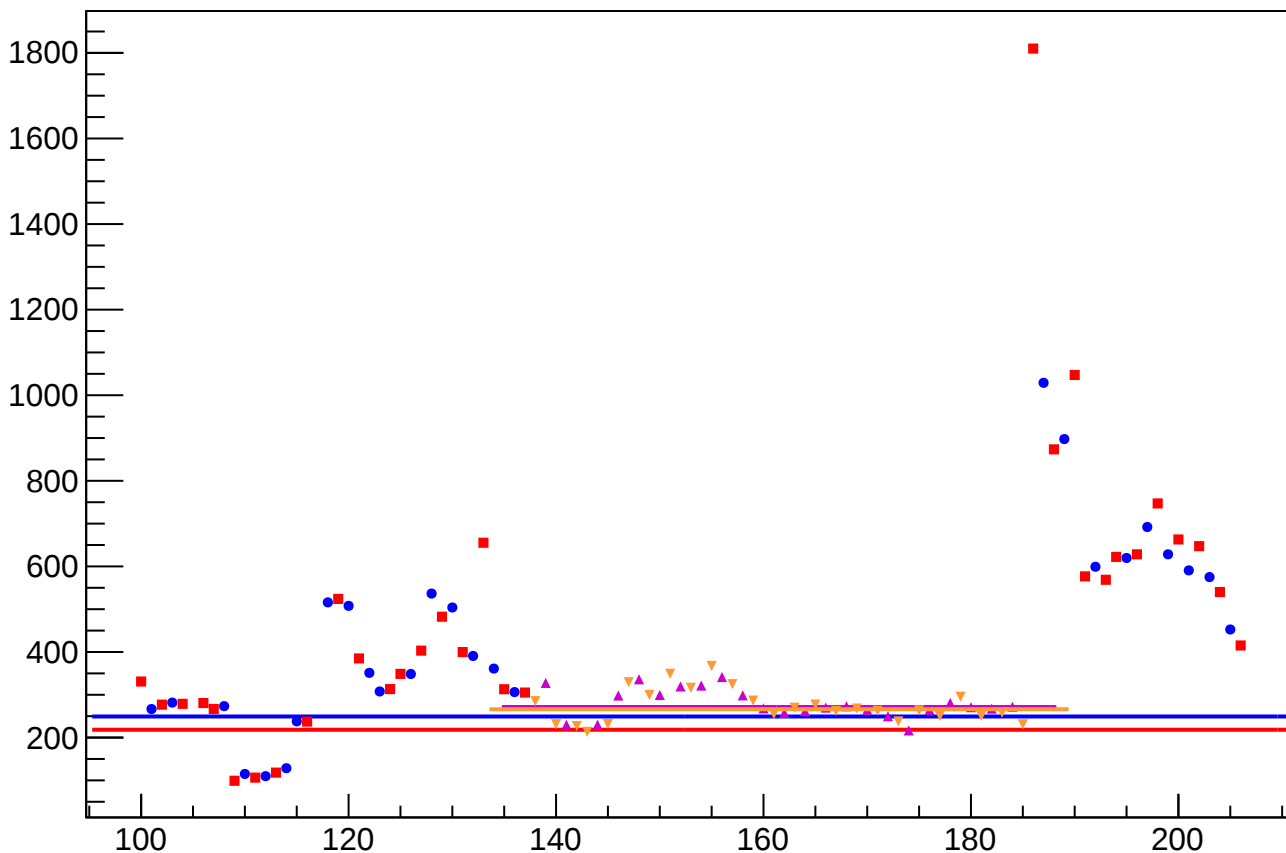
Right: -132.116 ± 55.138 χ^2/NDF : 47.7/56

In: -141.993 ± 51.841 χ^2/NDF : 56.8/48

Out: -24.867 ± 47.422 χ^2/NDF : 80.8/55

All: -78.225 ± 34.990 χ^2/NDF : 140.3/104

asym_sam8_rms vs Slug, Sign Corrected



Right In: 249.276+/-0.060 χ^2/NDF : 8359981.0/25

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 218.315+/-0.051 χ^2/NDF : 11845263.1/30

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

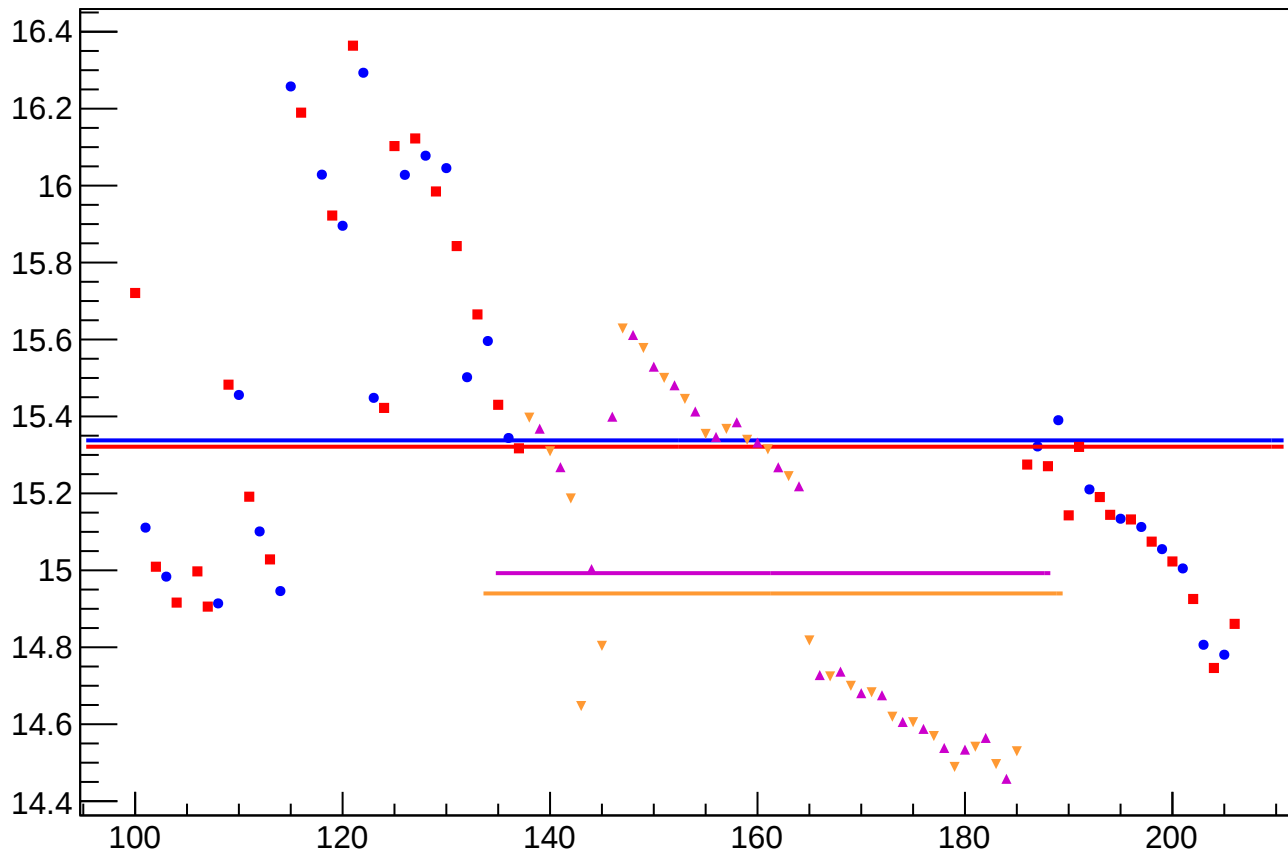
Right: 231.406+/-0.039 χ^2/NDF : 20359141.7/56

In: 263.140+/-0.037 χ^2/NDF : 8967234.1/48

Out: 245.760+/-0.034 χ^2/NDF : 12993980.9/55

All: 253.678+/-0.025 χ^2/NDF : 22083595.7/100

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.338 +/- 0.000 χ^2/NDF : 12623923749.2/25

Left Out: 14.940 +/- 0.000 χ^2/NDF : 24199653913.9/24

Right Out: 15.321 +/- 0.000 χ^2/NDF : 13397977916.2/30

Left In: 14.993 +/- 0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965 +/- 0.000 χ^2/NDF : 46444749587.5/47

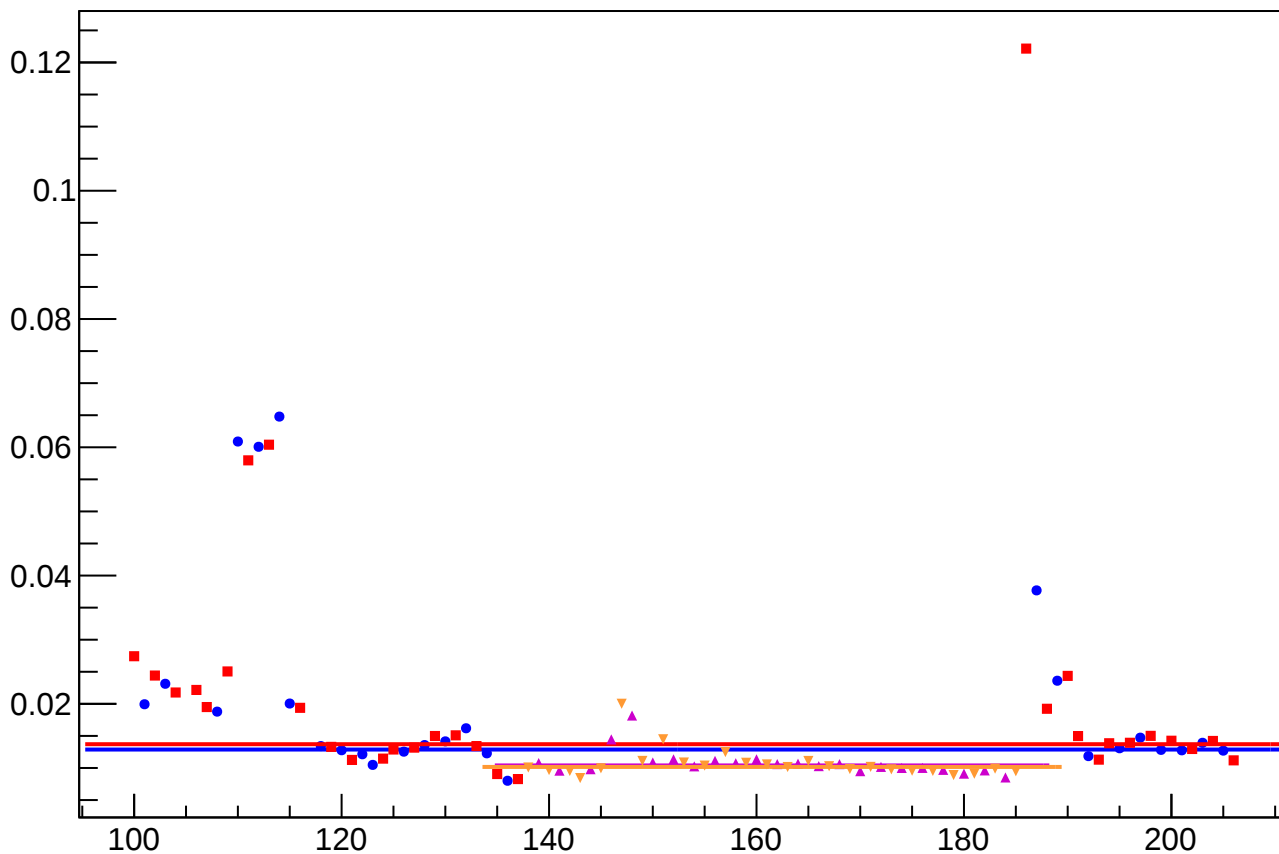
Right: 15.330 +/- 0.000 χ^2/NDF : 26031032883.0/56

In: 15.098 +/- 0.000 χ^2/NDF : 40183667054.0/48

Out: 15.050 +/- 0.000 χ^2/NDF : 44610984160.8/55

All: 15.073 +/- 0.000 χ^2/NDF : 85059030223.1

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2493490.1/25

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 3087238.7/30

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

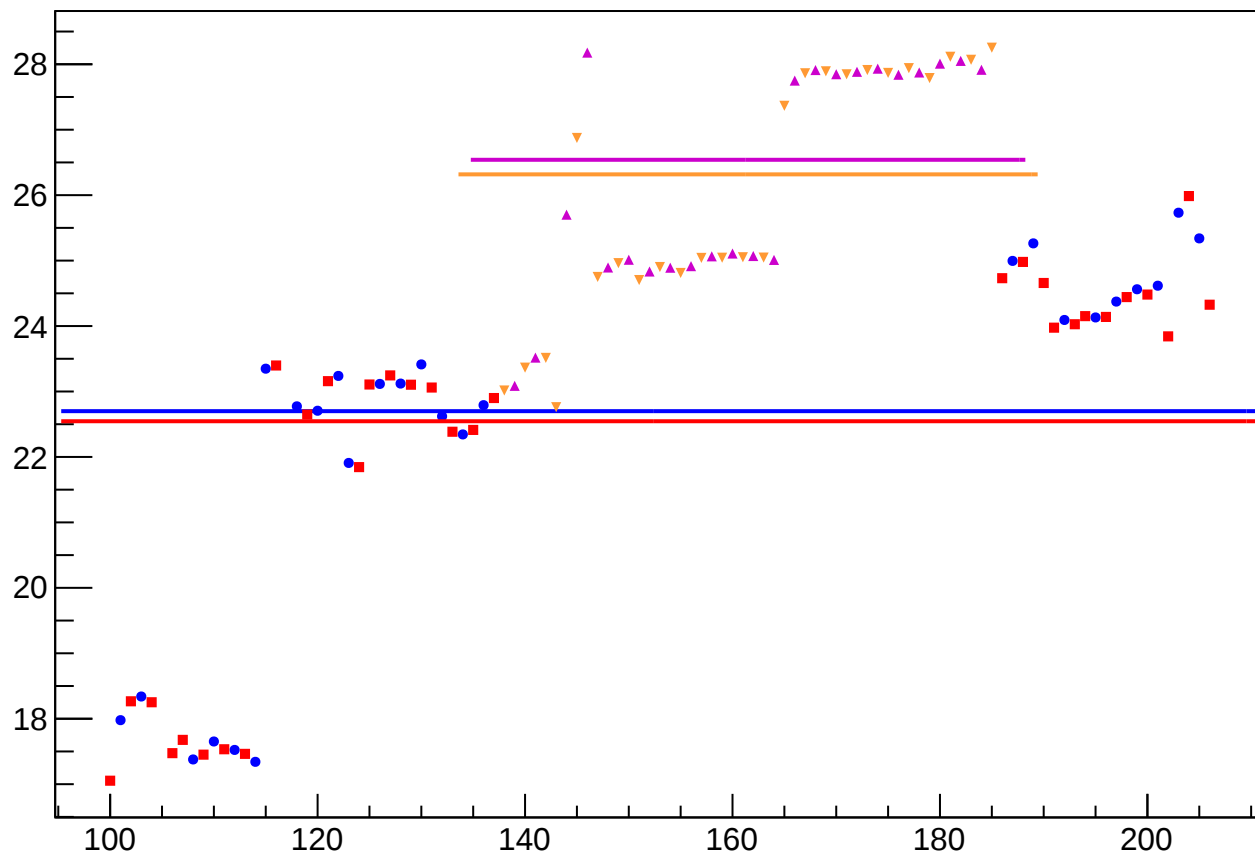
Right: 0.013+/-0.000 χ^2/NDF : 5627305.4/56

In: 0.011+/-0.000 χ^2/NDF : 3608416.9/48

Out: 0.011+/-0.000 χ^2/NDF : 5015049.9/55

All: 0.011+/-0.000 χ^2/NDF : 8623674.4/104

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.699+/-0.000

χ^2/NDF : 1281506029.5/25

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Right: 22.625+/-0.000

χ^2/NDF : 2784265832.2/56

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

In: 25.686+/-0.000

χ^2/NDF : 8840803765.6/48

Right Out: 22.546+/-0.000

χ^2/NDF : 1498495290.8/30

Out: 25.568+/-0.000

χ^2/NDF : 10202520981.4/55

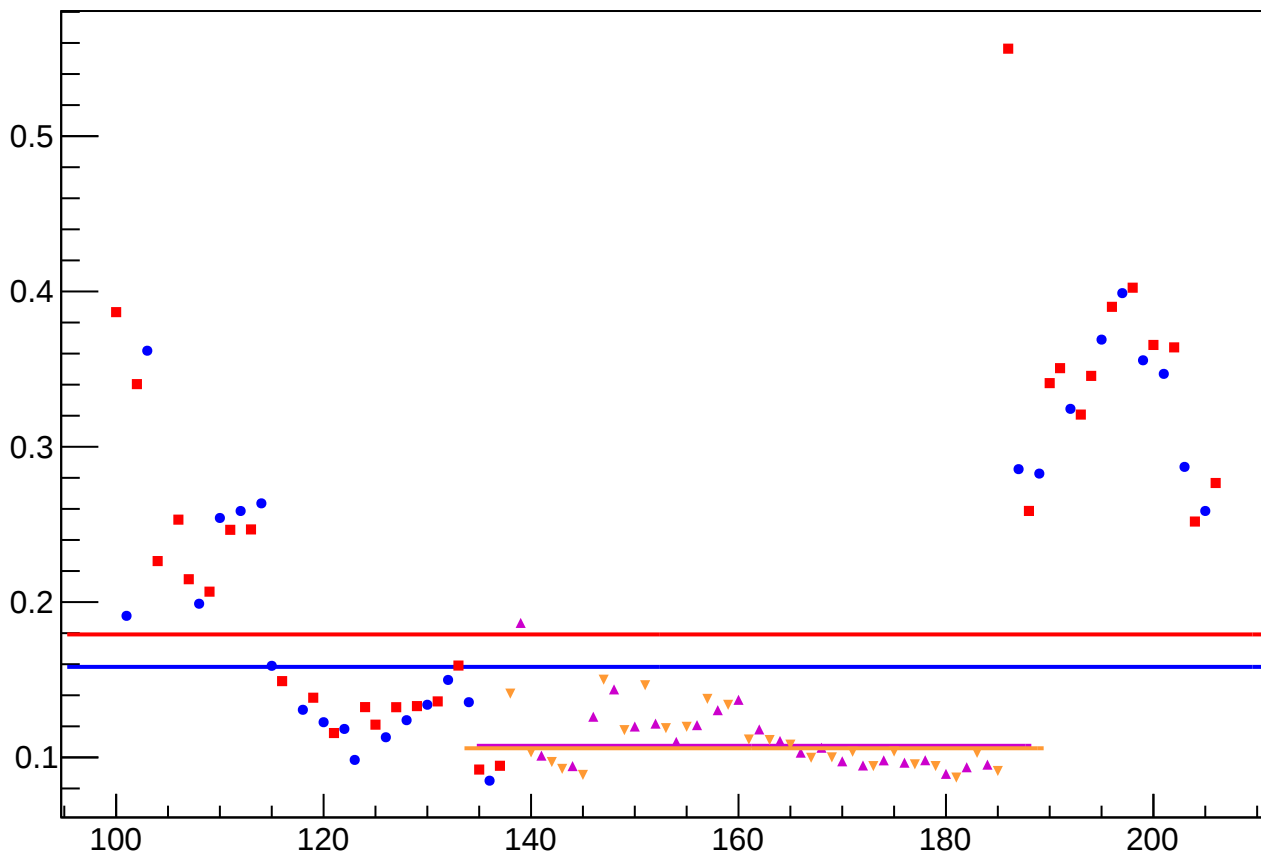
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.625+/-0.000

χ^2/NDF : 19055295254.4

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.158+/-0.000 χ^2/NDF : 5348582.8/25

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.179+/-0.000 χ^2/NDF : 5632150.9/30

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

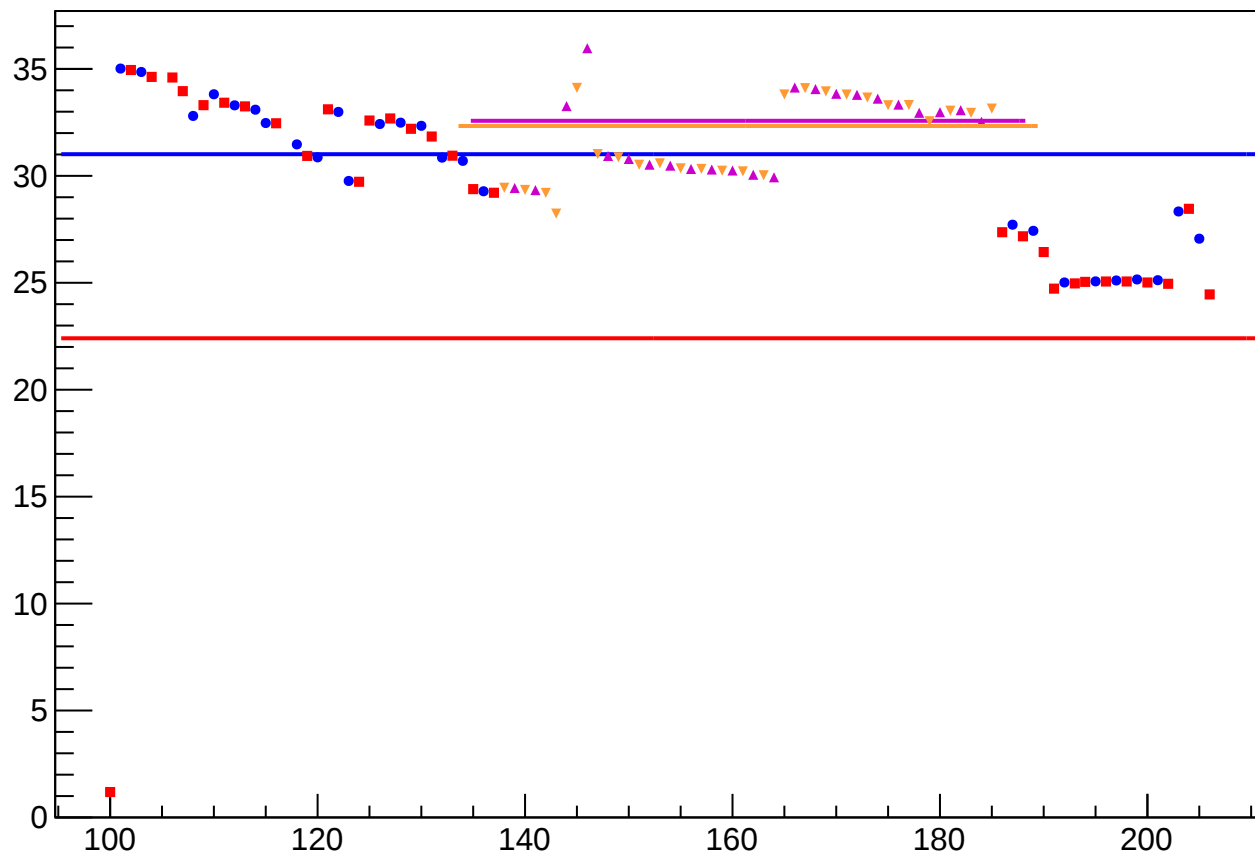
Right: 0.168+/-0.000 χ^2/NDF : 11137884.7/56

In: 0.119+/-0.000 χ^2/NDF : 7607586.5/48

Out: 0.120+/-0.000 χ^2/NDF : 9377258.0/55

All: 0.120+/-0.000 χ^2/NDF : 16989687.2/104

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.012 $\pm$ 0.000

χ^2 /NDF: 5462033424.1/25

Left: 32.450 $\pm$ 0.000

χ^2 /NDF: 24766521375.8/47

Left Out: 32.331 $\pm$ 0.000

χ^2 /NDF: 12850475096.2/24

Right: 25.917 $\pm$ 0.000

χ^2 /NDF: 274849981234.3/56

Right Out: 22.406 $\pm$ 0.000

χ^2 /NDF: 232100712057.5/30

In: 32.296 $\pm$ 0.000

χ^2 /NDF: 18964146285.8/48

Out: 30.033 $\pm$ 0.000

χ^2 /NDF: 338362928209.9/55

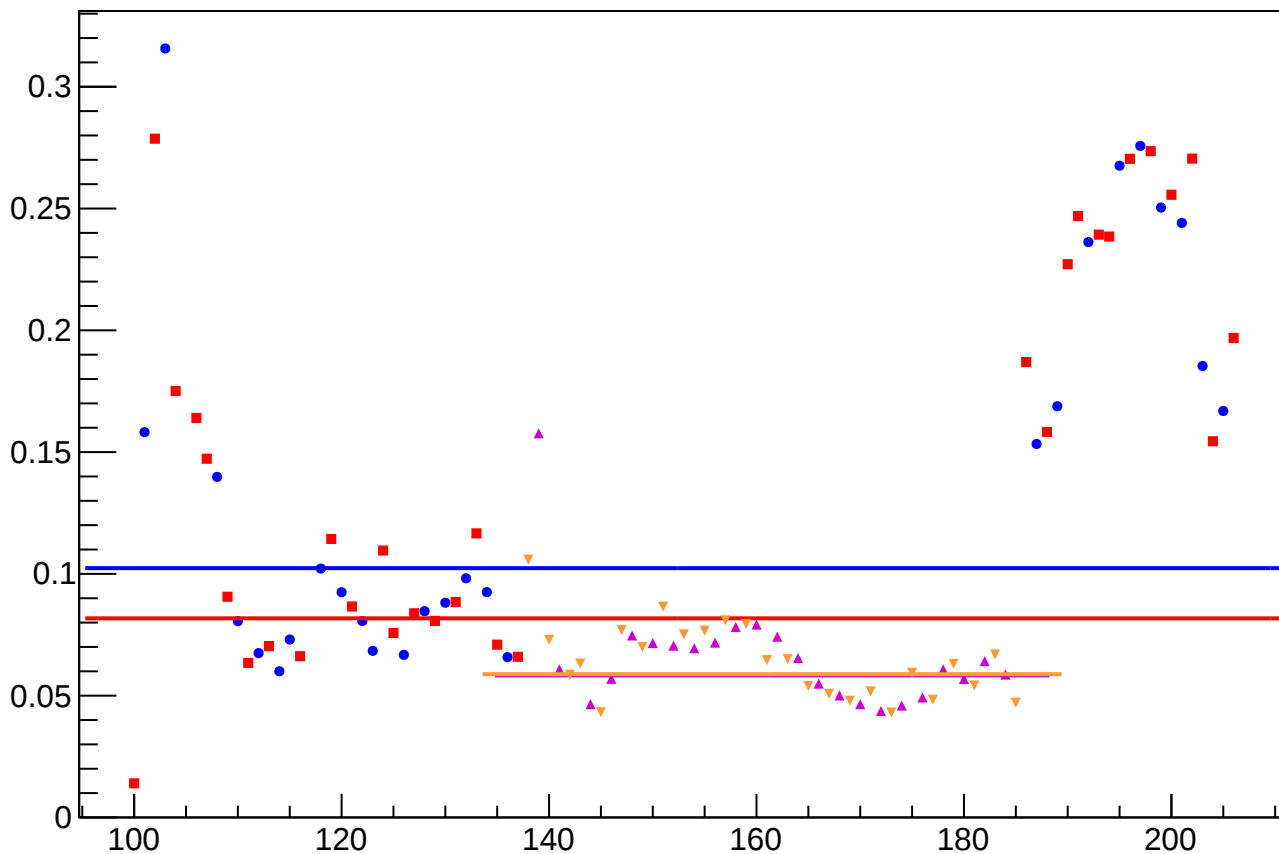
Left In: 32.574 $\pm$ 0.000

χ^2 /NDF: 11797772603.7/22

All: 31.102 $\pm$ 0.000

χ^2 /NDF: 370209725461.0/100

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.102 $\pm$ 0.000 χ^2/NDF : 5300541.6/25

Left Out: 0.059 $\pm$ 0.000 χ^2/NDF :1402605.2/24

Right Out: 0.082 $\pm$ 0.000 χ^2/NDF : 10623091.7/30

Left In: 0.058 $\pm$ 0.000 χ^2/NDF :1525476.4/22

Left: 0.059 $\pm$ 0.000 χ^2/NDF : 2929140.7/47

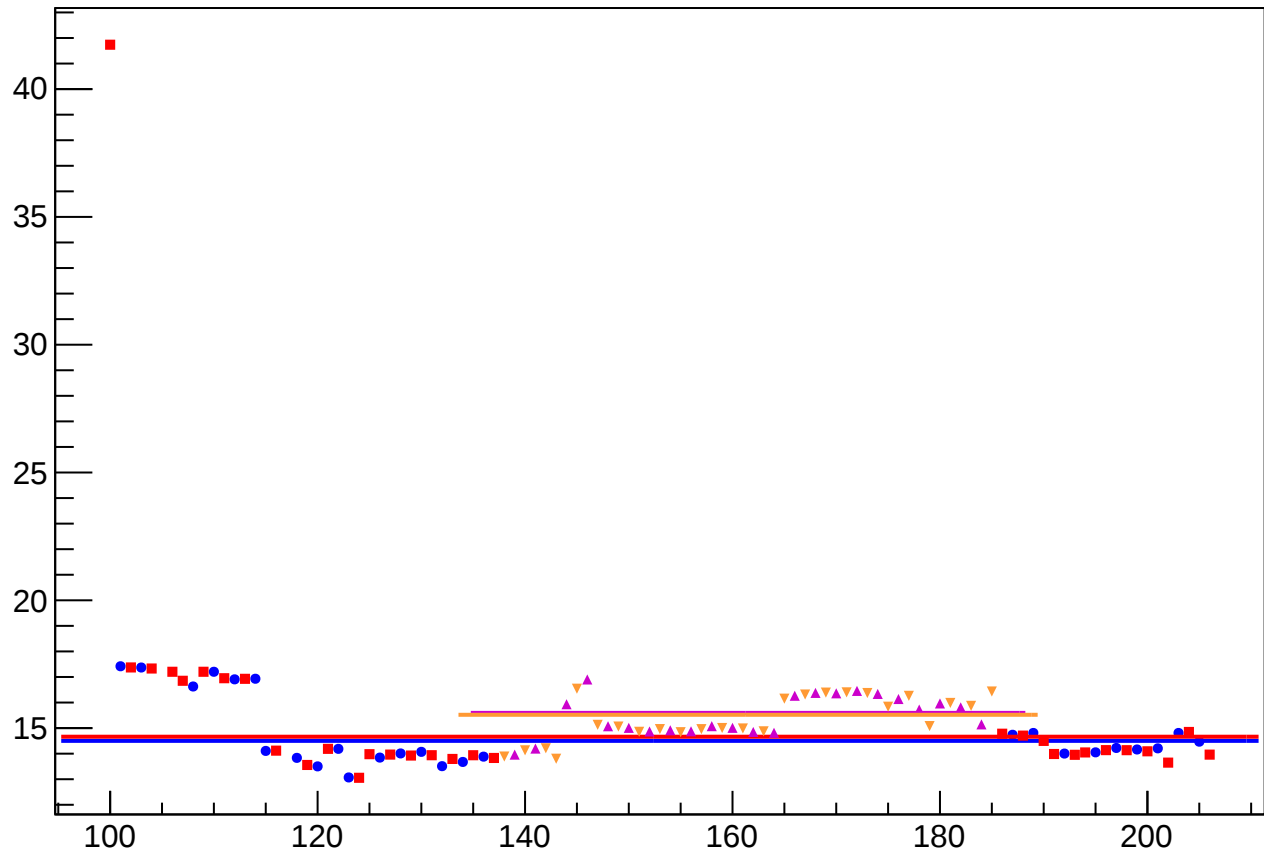
Right: 0.090 $\pm$ 0.000 χ^2/NDF : 16350880.6/56

In: 0.066 $\pm$ 0.000 χ^2/NDF :9536196.3/48

Out: 0.064 $\pm$ 0.000 χ^2/NDF :13022334.4/55

All: 0.065 $\pm$ 0.000 χ^2/NDF : 22579267.7/104

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.501+/-0.000 χ^2/NDF : 1502317456.4/25

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.663+/-0.000 χ^2/NDF : 1969872407.1/30

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

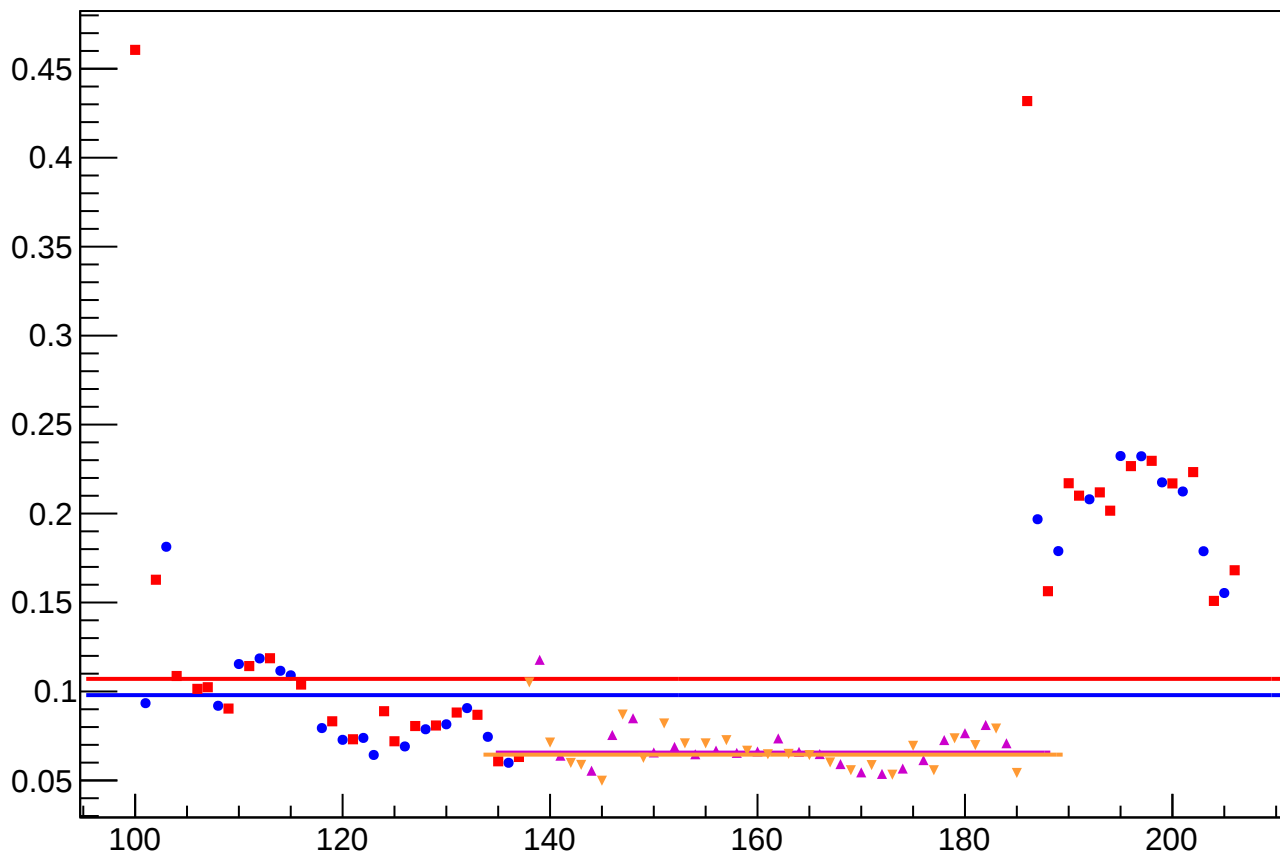
Right: 14.581+/-0.000 χ^2/NDF : 3485528490.7/56

In: 15.346+/-0.000 χ^2/NDF : 4349837902.9/48

Out: 15.340+/-0.000 χ^2/NDF : 5144642758.1/55

All: 15.343+/-0.000 χ^2/NDF : 9494568691.9/103

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.098 $\pm$ 0.000 χ^2 /NDF: 4557713.4/25

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF:761552.3/24

Right Out: 0.107 $\pm$ 0.000 χ^2 /NDF: 4978081.2/30

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

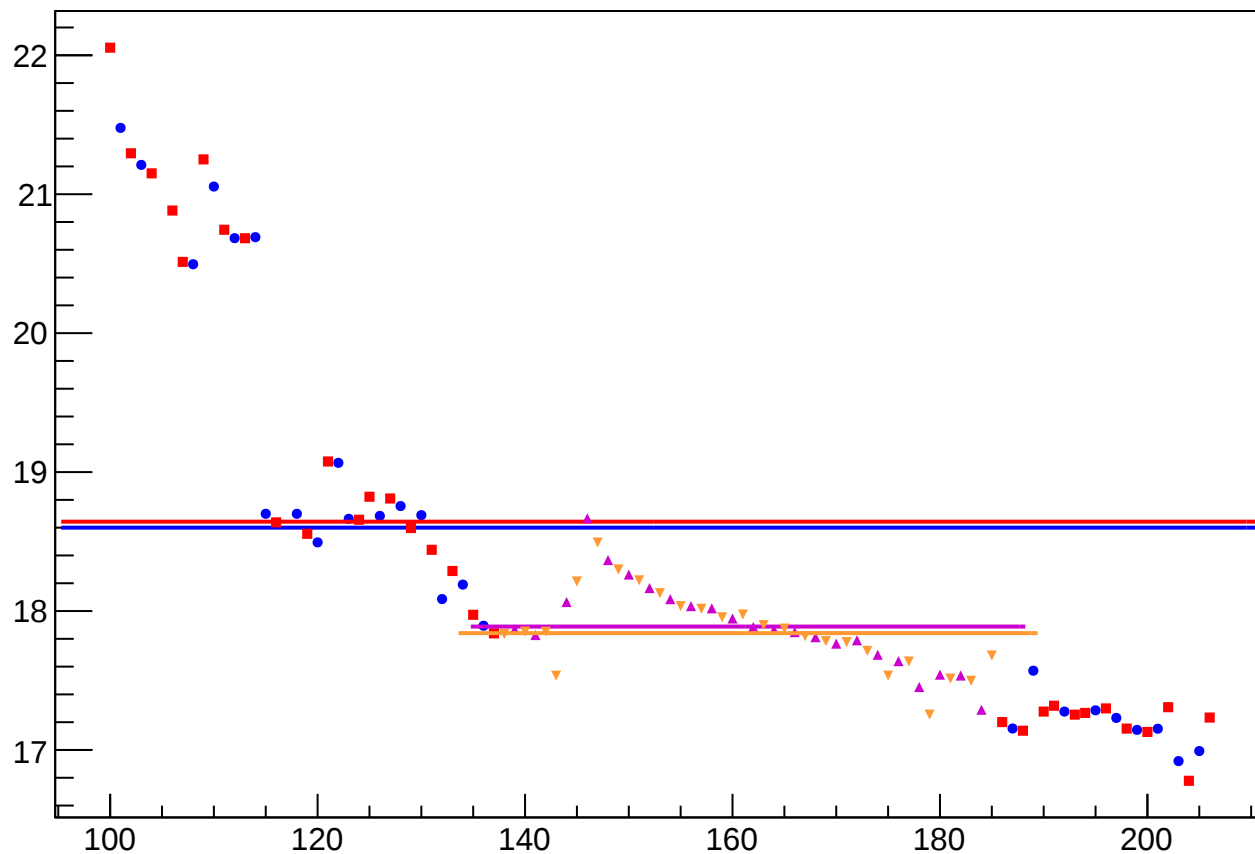
Right: 0.102 $\pm$ 0.000 χ^2 /NDF: 9620019.9/56

In: 0.073 $\pm$ 0.000 χ^2 /NDF:6906388.7/48

Out: 0.073 $\pm$ 0.000 χ^2 /NDF:8613668.7/55

All: 0.073 $\pm$ 0.000 χ^2 /NDF: 15521161.4/104

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.600+/-0.000

χ^2/NDF : 28999208473.6/25

Left: 17.864+/-0.000

χ^2/NDF : 2506375288.6/47

Left Out: 17.841+/-0.000

χ^2/NDF : 1283287989.7/24

Right: 18.623+/-0.000

χ^2/NDF : 61283448941.6/56

Right Out: 18.643+/-0.000

χ^2/NDF : 32273974031.9/30

In: 18.159+/-0.000

χ^2/NDF : 33548904515.3/48

Out: 18.149+/-0.000

χ^2/NDF : 38155620328.8/55

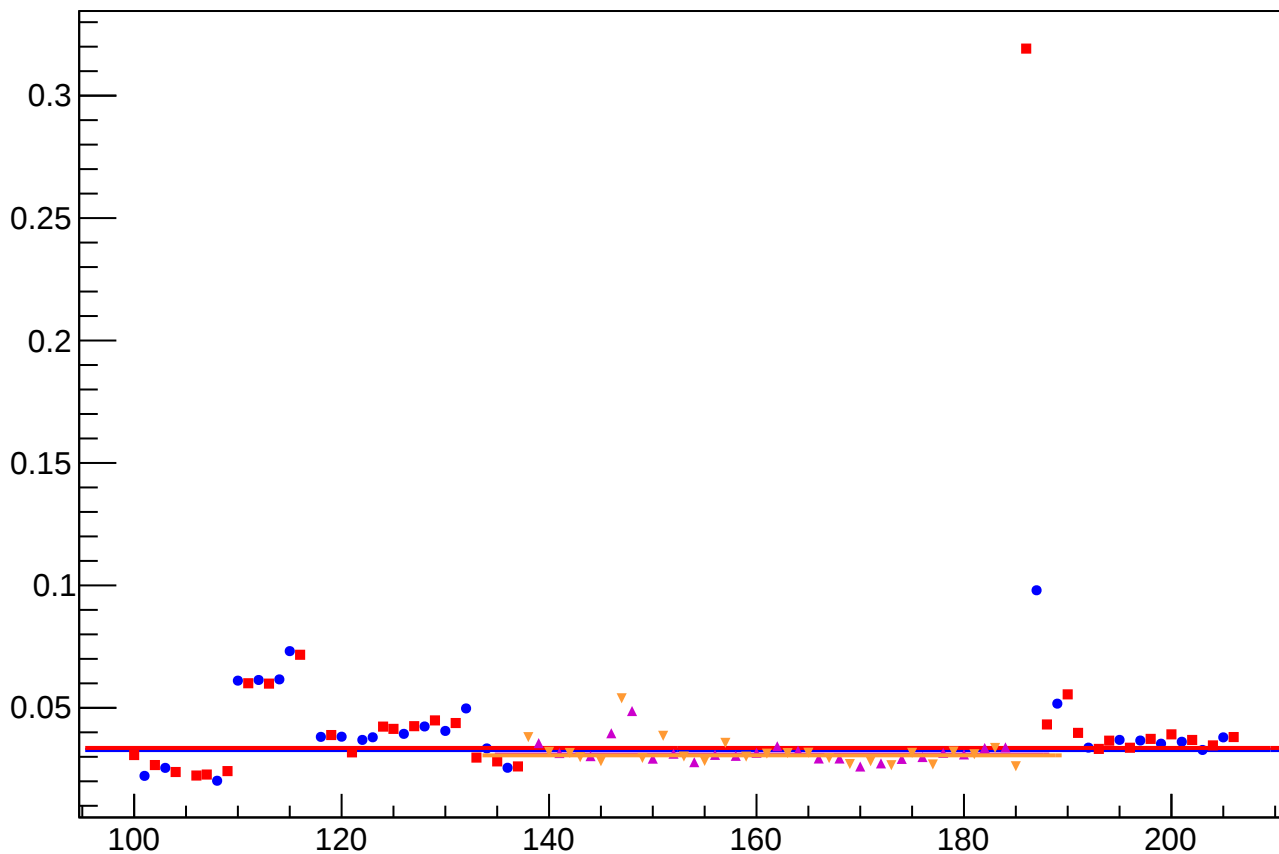
Left In: 17.888+/-0.000

χ^2/NDF : 1203002311.3/22

All: 18.154+/-0.000

χ^2/NDF : 71706112409.2

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.033 $\pm$ 0.000 χ^2 /NDF: 1720809.8/25

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.034 $\pm$ 0.000 χ^2 /NDF: 2158724.6/30

Left In: 0.031 $\pm$ 0.000 χ^2 /NDF:453524.6/22

Left: 0.031 $\pm$ 0.000 χ^2 /NDF: 1045553.8/47

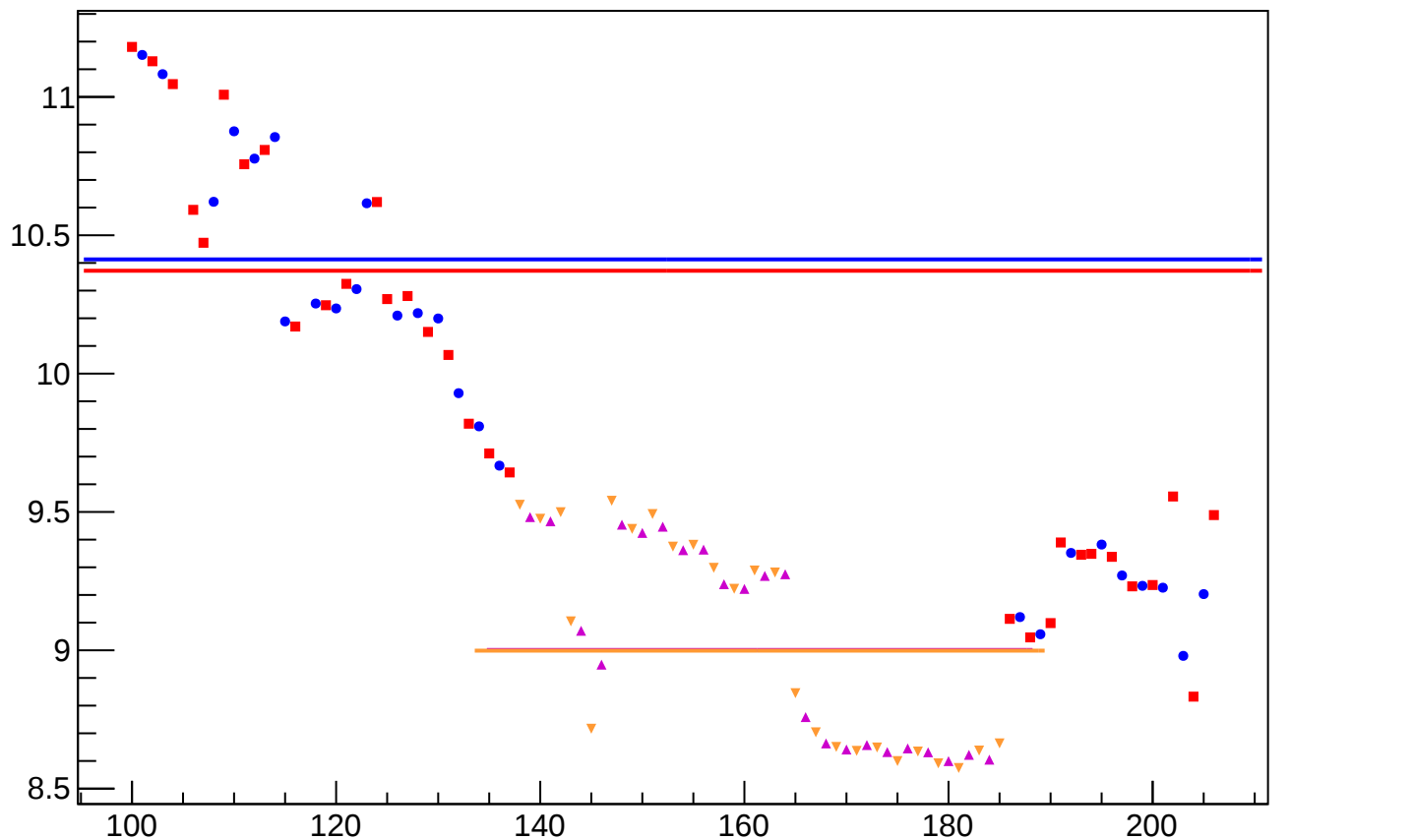
Right: 0.033 $\pm$ 0.000 χ^2 /NDF: 3887963.8/56

In: 0.032 $\pm$ 0.000 χ^2 /NDF:2219740.9/48

Out: 0.032 $\pm$ 0.000 χ^2 /NDF:2879505.0/55

All: 0.032 $\pm$ 0.000 χ^2 /NDF: 5099977.1/104

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.413+/-0.000 χ^2/NDF : 13554882853.1/25

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.372+/-0.000 χ^2/NDF : 12838773266.1/30

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

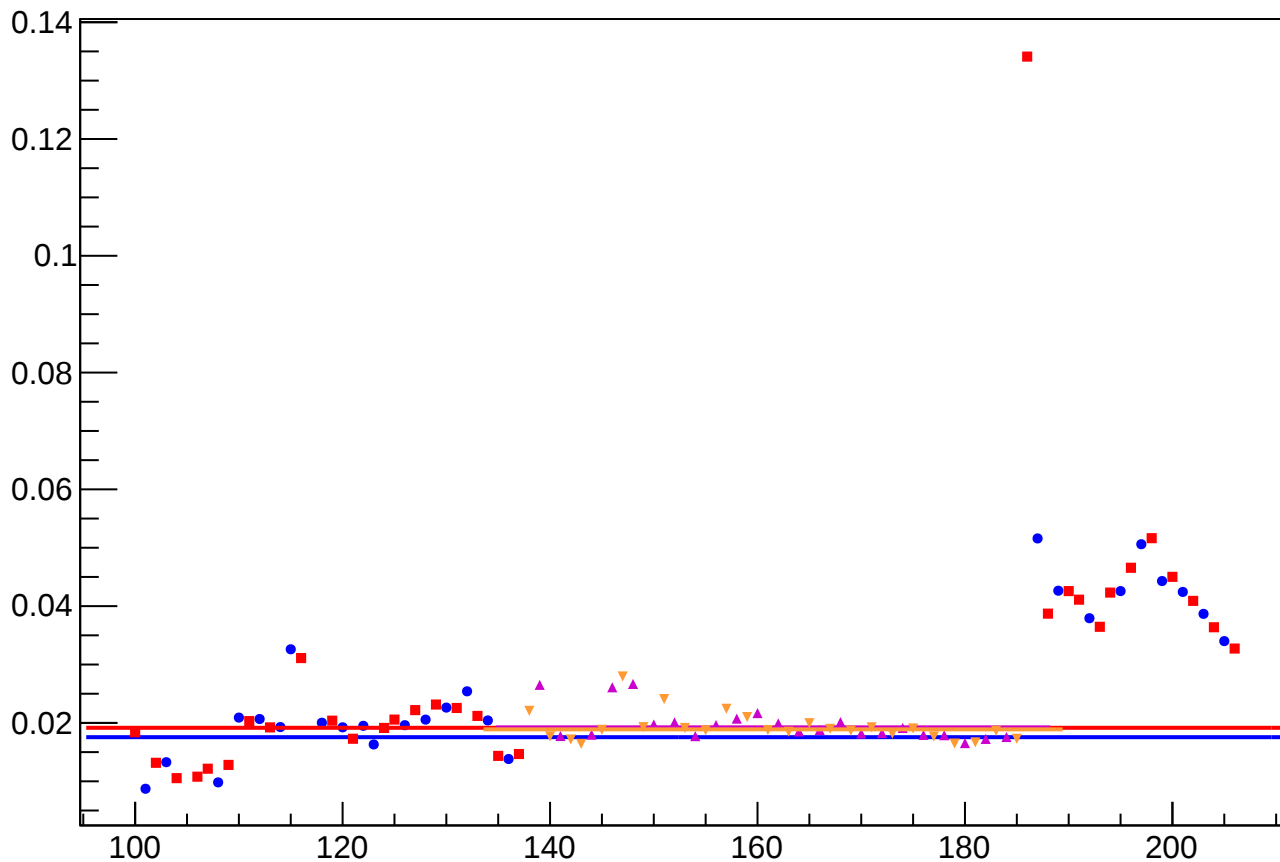
Right: 10.392+/-0.000 χ^2/NDF : 26418716589.6/56

In: 9.580+/-0.000 χ^2/NDF : 53819800016.2/48

Out: 9.533+/-0.000 χ^2/NDF : 53671345071.2/55

All: 9.555+/-0.000 χ^2/NDF : 107573637033.1

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 6045472.7/25

Left Out: 0.019+/-0.000 χ^2/NDF :428169.5/24

Right Out: 0.019+/-0.000 χ^2/NDF : 6506060.7/30

Left In: 0.019+/-0.000 χ^2/NDF :481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

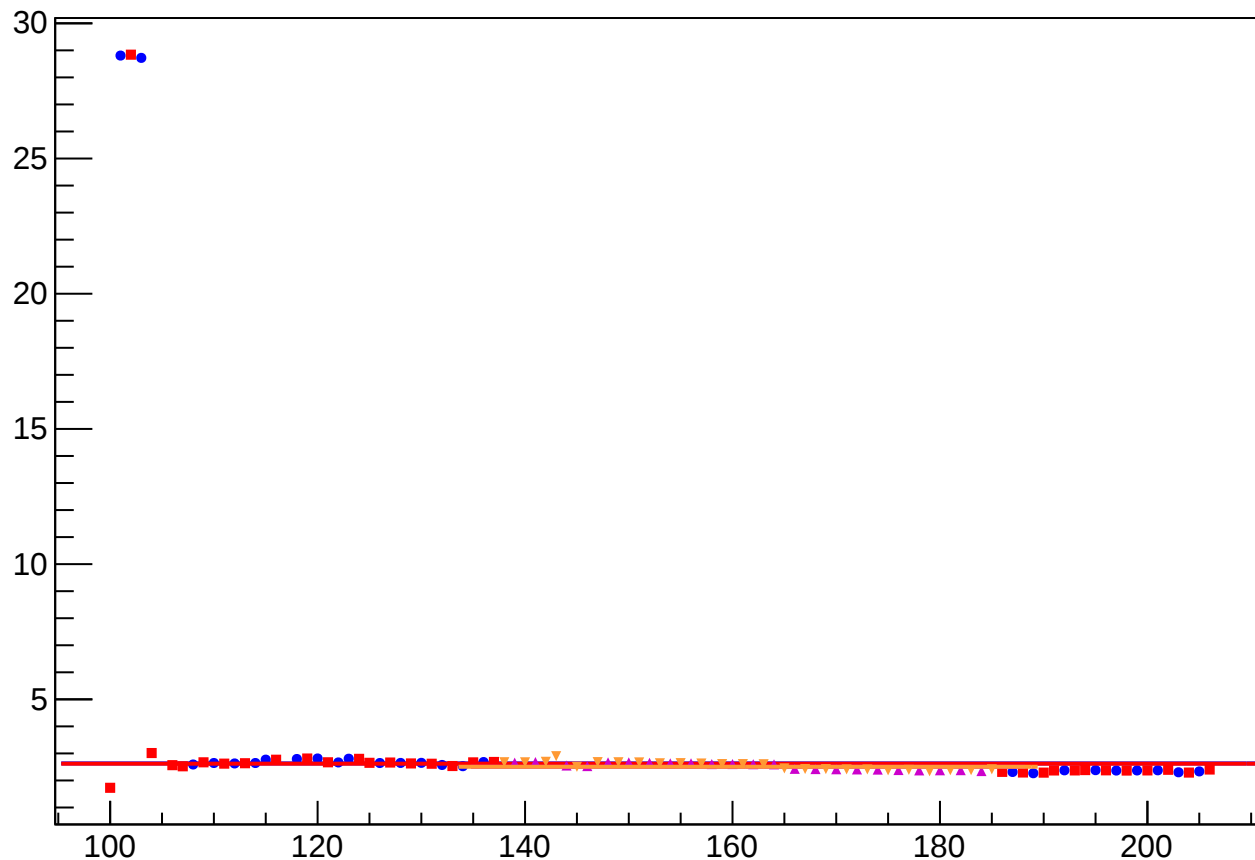
Right: 0.018+/-0.000 χ^2/NDF : 12628555.8/56

In: 0.019+/-0.000 χ^2/NDF :6624797.2/48

Out: 0.019+/-0.000 χ^2/NDF :6936855.0/55

All: 0.019+/-0.000 χ^2/NDF : 13577429.0/104

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.631+/-0.000

χ^2/NDF : 177709374510.9/25

Left: 2.506+/-0.000 χ^2/NDF : 107174595641.7/47

Right: 2.625+/-0.000 χ^2/NDF : 266523812876.5/56

Left Out: 2.507+/-0.000

χ^2/NDF : 64277969186.7/24

In: 2.544+/-0.000 χ^2/NDF : 236810927355.0/48

Right Out: 2.620+/-0.000

χ^2/NDF : 88733184501.7/30

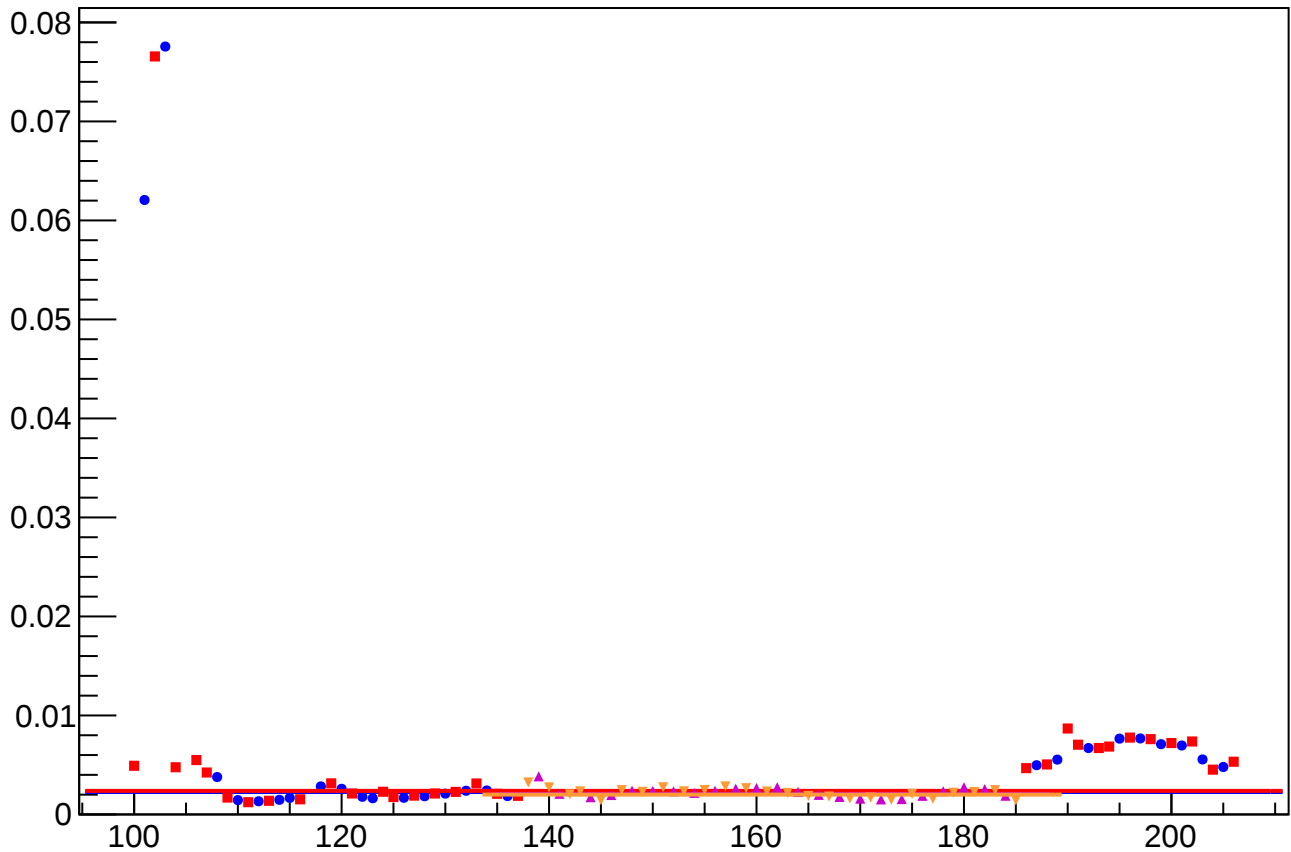
Out: 2.542+/-0.000 χ^2/NDF : 167527015122.7/55

Left In: 2.505+/-0.000

χ^2/NDF : 42893630742.5/22

All: 2.543+/-0.000 χ^2/NDF : 404359503130.7

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 8311694.0/25

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 9170240.7/30

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

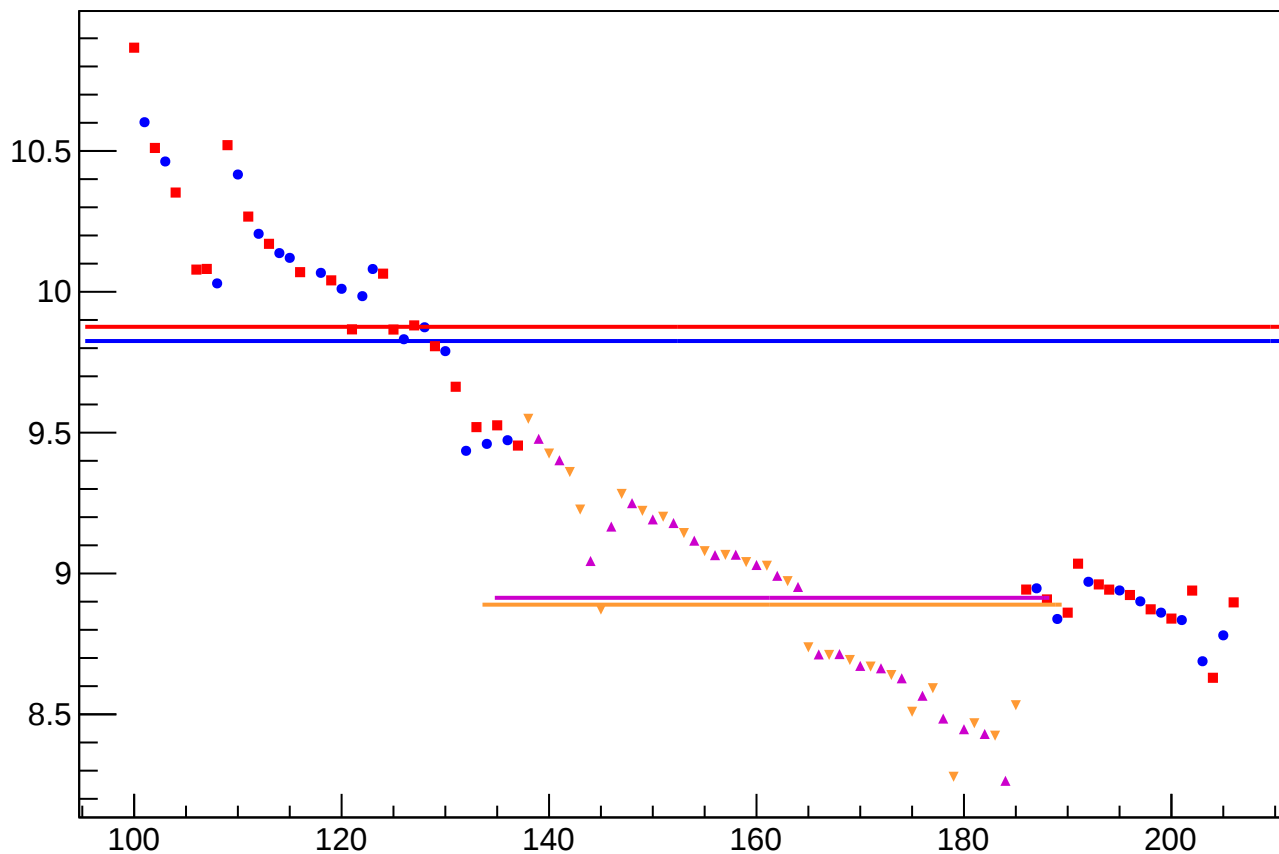
Right: 0.002+/-0.000 χ^2/NDF : 17501409.9/56

In: 0.002+/-0.000 χ^2/NDF :9705659.1/48

Out: 0.002+/-0.000 χ^2/NDF :10952969.6/55

All: 0.002+/-0.000 χ^2/NDF : 20658683.9/104

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.825+/-0.000

χ^2/NDF : 52957227936.3/25

Left: 8.901+/-0.000

χ^2/NDF : 63312247922.6/47

Left Out: 8.889+/-0.000

χ^2/NDF : 34704694045.9/24

Right: 9.852+/-0.000

χ^2/NDF : 115519757546.0/56

Right Out: 9.876+/-0.000

χ^2/NDF : 62281741855.9/30

In: 9.258+/-0.000

χ^2/NDF : 190771465439.1/48

Out: 9.248+/-0.000

χ^2/NDF : 239427939629.2/55

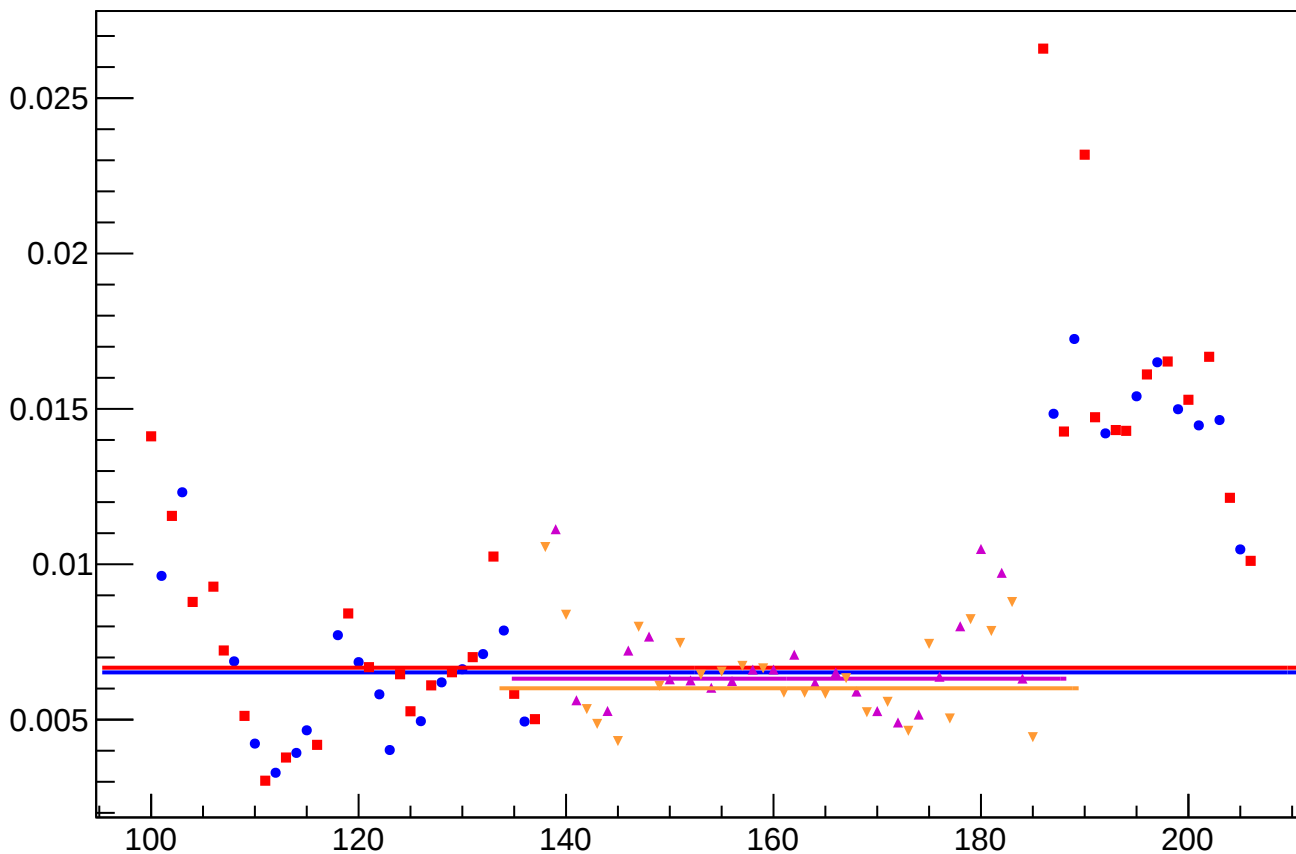
Left In: 8.914+/-0.000

χ^2/NDF : 28497227562.7/22

All: 9.253+/-0.000

χ^2/NDF : 430229554368.8

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 5500187.5/25

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1312525.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 7193667.6/30

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1087051.3/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2435218.5/47

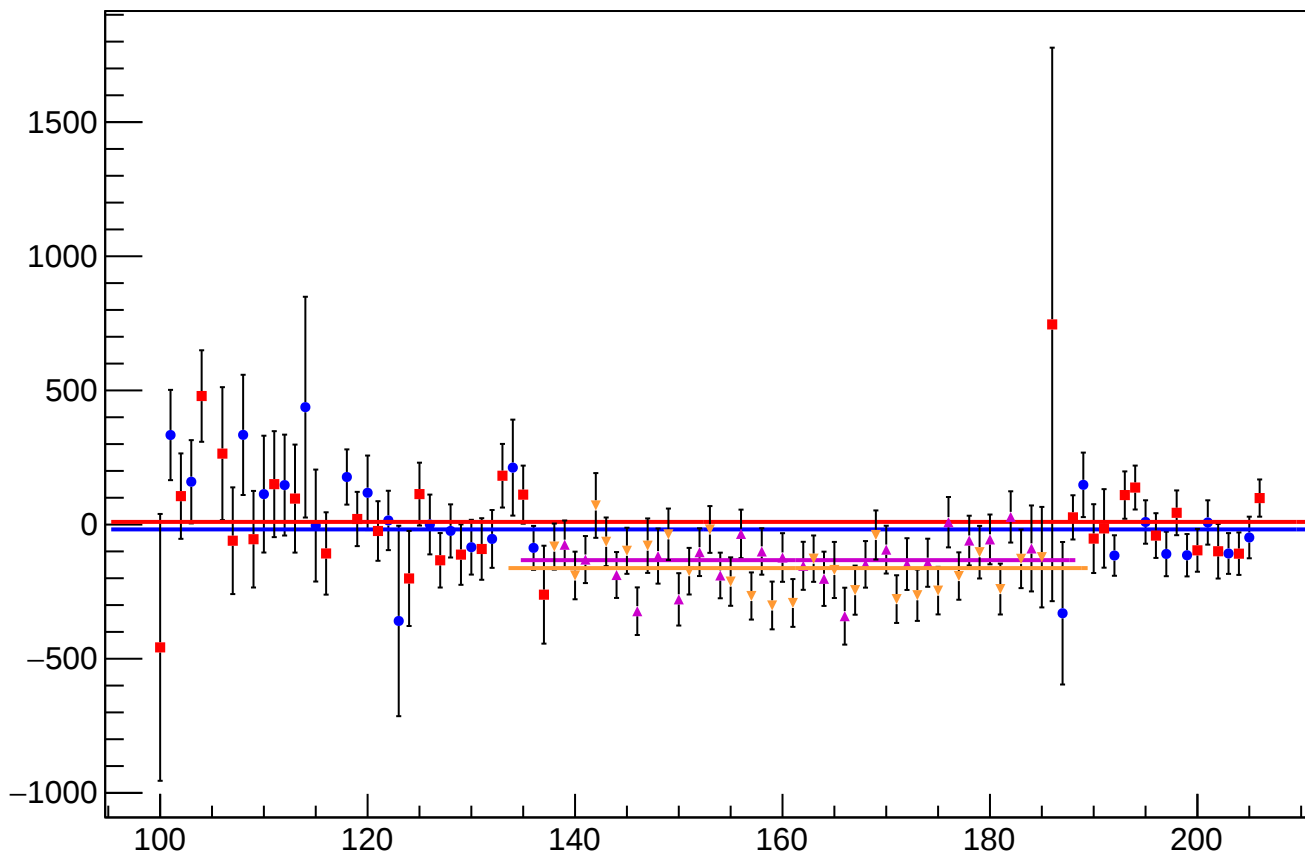
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 12698922.2/56

In: 0.006 $\pm$ 0.000 χ^2 /NDF:6597958.7/48

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:8634686.3/55

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 15245017.0/104

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -18.008 ± 21.521 $\chi^2/\text{NDF}: 28.4/25$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: 9.978 ± 20.381 $\chi^2/\text{NDF}: 34.7/30$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

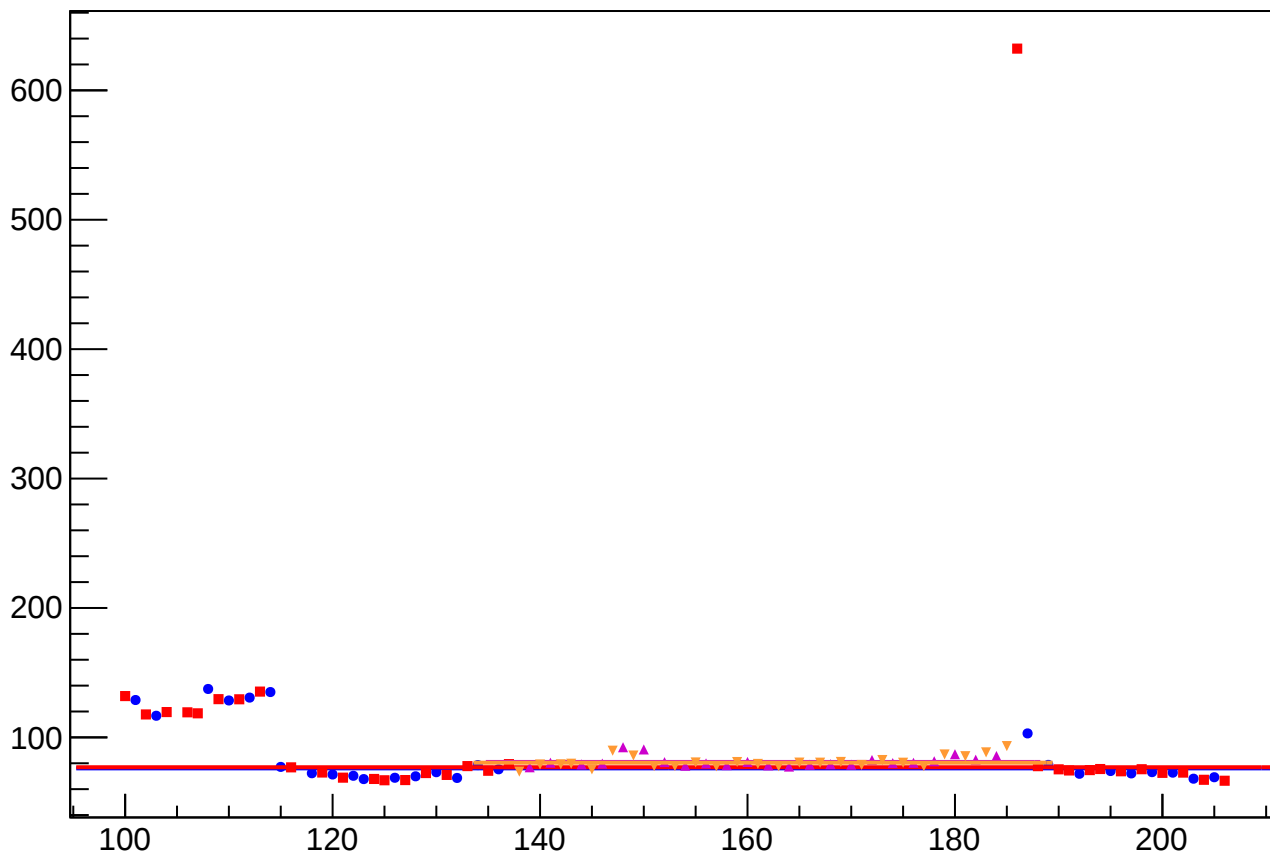
Right: -3.254 ± 14.798 $\chi^2/\text{NDF}: 64.1/56$

In: -81.194 ± 14.411 $\chi^2/\text{NDF}: 64.8/48$

Out: -83.276 ± 13.797 $\chi^2/\text{NDF}: 99.0/55$

All: -82.281 ± 9.966 $\chi^2/\text{NDF}: 163.9/104$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 76.060 $\pm$ 0.015 χ^2 /NDF: 927466.9/25

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 76.926 $\pm$ 0.014 χ^2 /NDF: 1642014.1/30

Left In: 81.014 $\pm$ 0.014 χ^2 /NDF: 72250.2/22

Left: 80.727 $\pm$ 0.010 χ^2 /NDF: 163039.2/47

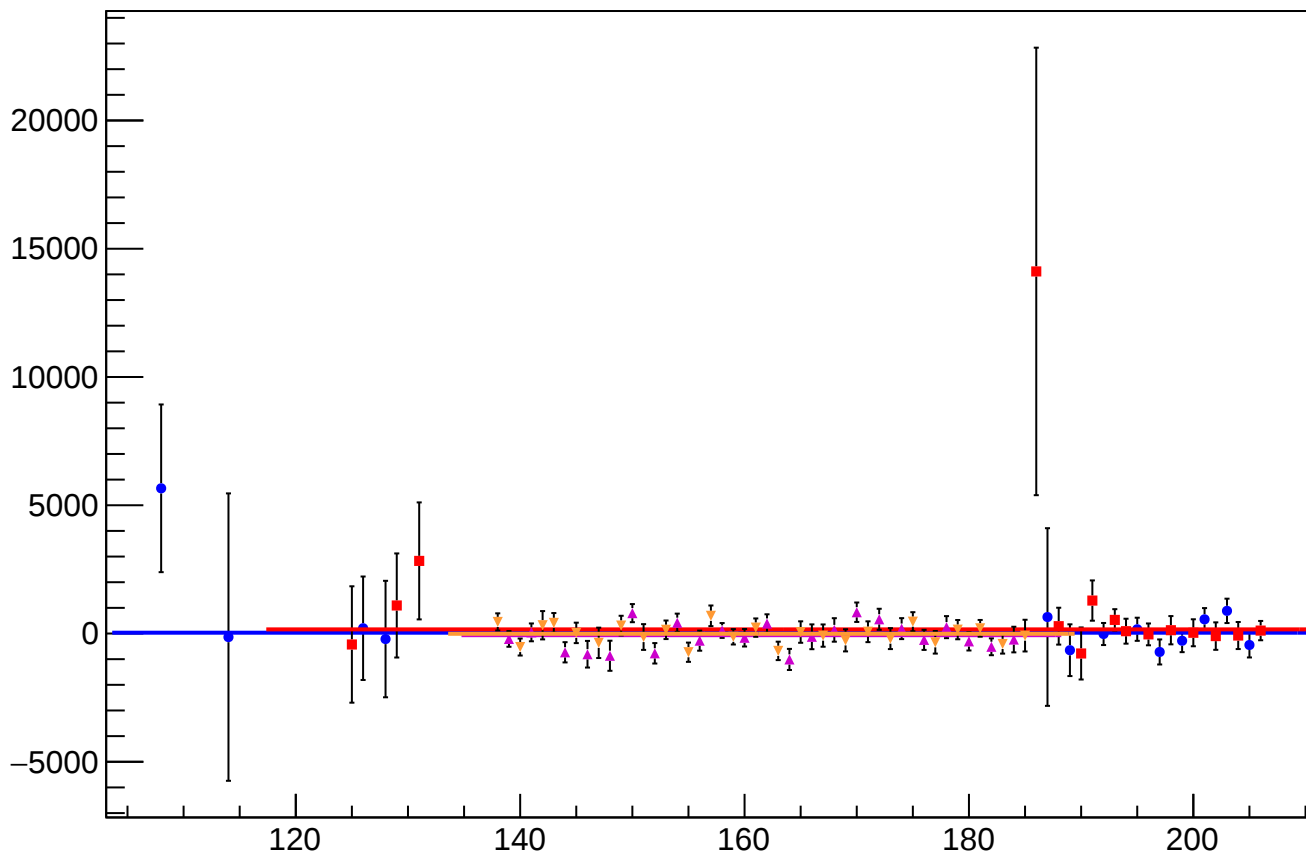
Right: 76.516 $\pm$ 0.010 χ^2 /NDF: 2571187.3/56

In: 78.793 $\pm$ 0.010 χ^2 /NDF: 1058172.6/48

Out: 78.840 $\pm$ 0.010 χ^2 /NDF: 1764515.7/55

All: 78.817 $\pm$ 0.007 χ^2 /NDF: 2822699.4/104

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: 31.823 ± 168.811 χ^2/NDF : 12.0/12

Left Out: -10.486 ± 78.391 χ^2/NDF : 22.5/24

Right Out: 161.463 ± 154.855 χ^2/NDF : 8.7/14

Left In: -64.591 ± 80.047 χ^2/NDF : 37.4/22

Left: -36.973 ± 56.007 χ^2/NDF : 60.2/47

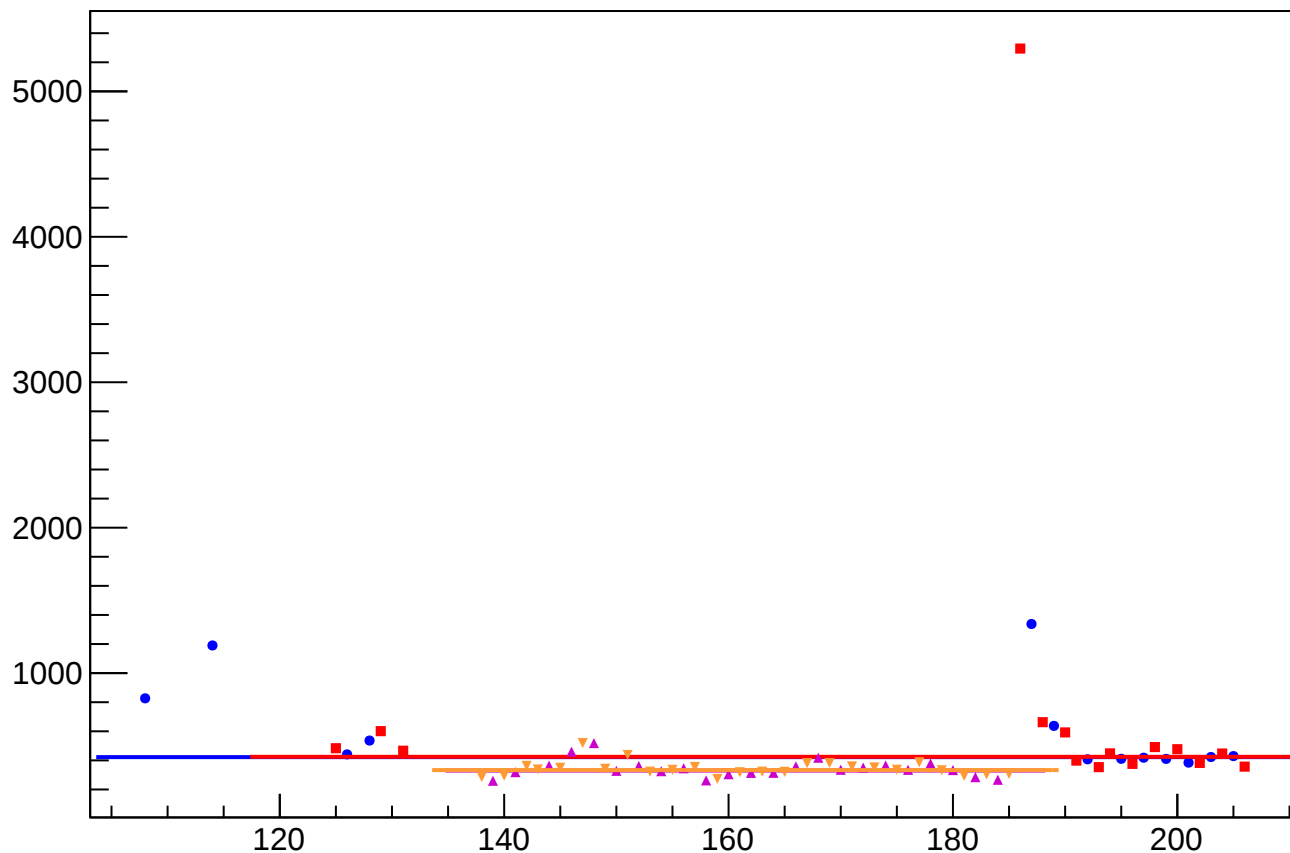
Right: 102.222 ± 114.115 χ^2/NDF : 21.0/27

In: -46.892 ± 72.327 χ^2/NDF : 49.7/35

Out: 24.589 ± 69.940 χ^2/NDF : 32.2/39

All: -9.953 ± 50.278 χ^2/NDF : 82.4/75

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 422.383+/-0.119 χ^2/NDF : 324640.7/12

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 424.630+/-0.109 χ^2/NDF : 1134947.4/14

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

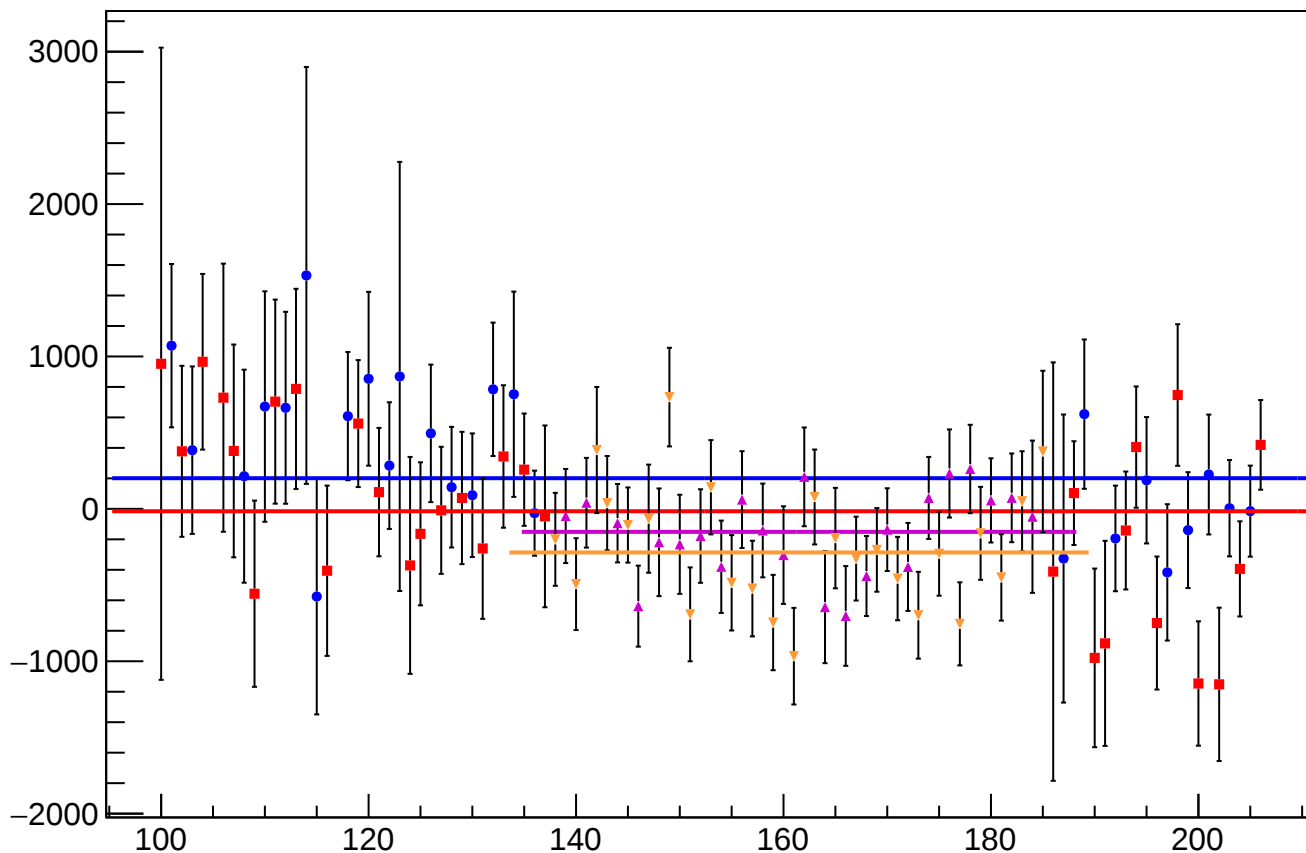
Right: 423.603+/-0.081 χ^2/NDF : 1459780.5/27

In: 346.947+/-0.051 χ^2/NDF : 1609786.6/35

Out: 351.877+/-0.049 χ^2/NDF : 2281644.7/39

All: 349.495+/-0.036 χ^2/NDF : 3896233.3/75

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 201.130 $\pm$ 88.734 χ^2 /NDF: 17.8/25

Left Out: -286.030 $\pm$ 61.095 χ^2 /NDF:36.6/24

Right Out: -15.679 $\pm$ 85.271 χ^2 /NDF: 40.1/30

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

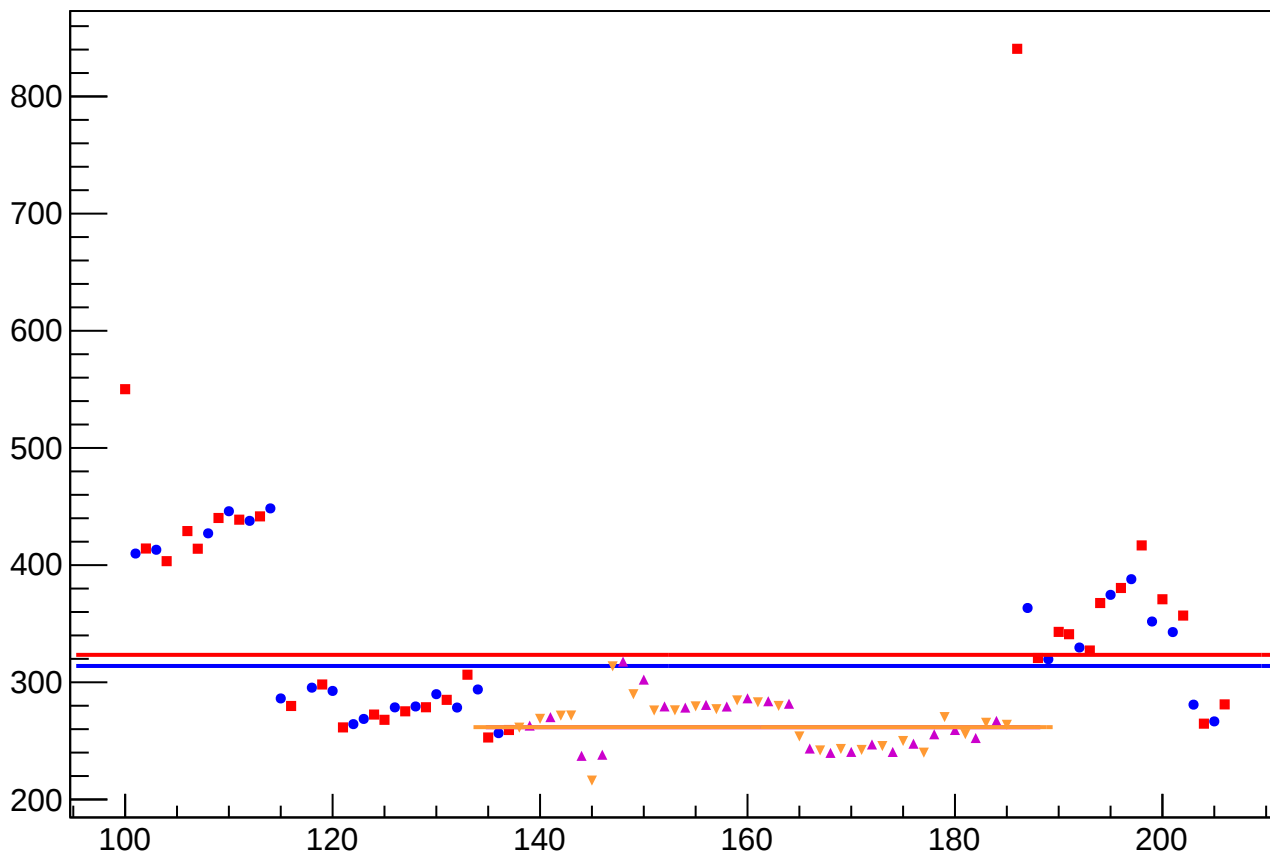
Right: 88.413 $\pm$ 61.483 χ^2 /NDF: 61.0/56

In: -33.386 $\pm$ 51.270 χ^2 /NDF:46.9/48

Out: -194.325 $\pm$ 49.663 χ^2 /NDF:83.3/55

All: -116.417 $\pm$ 35.672 χ^2 /NDF: 135.3/104

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 313.935+/-0.063 χ^2/NDF : 723461.8/25

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 323.423+/-0.060 χ^2/NDF : 1211814.9/30

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

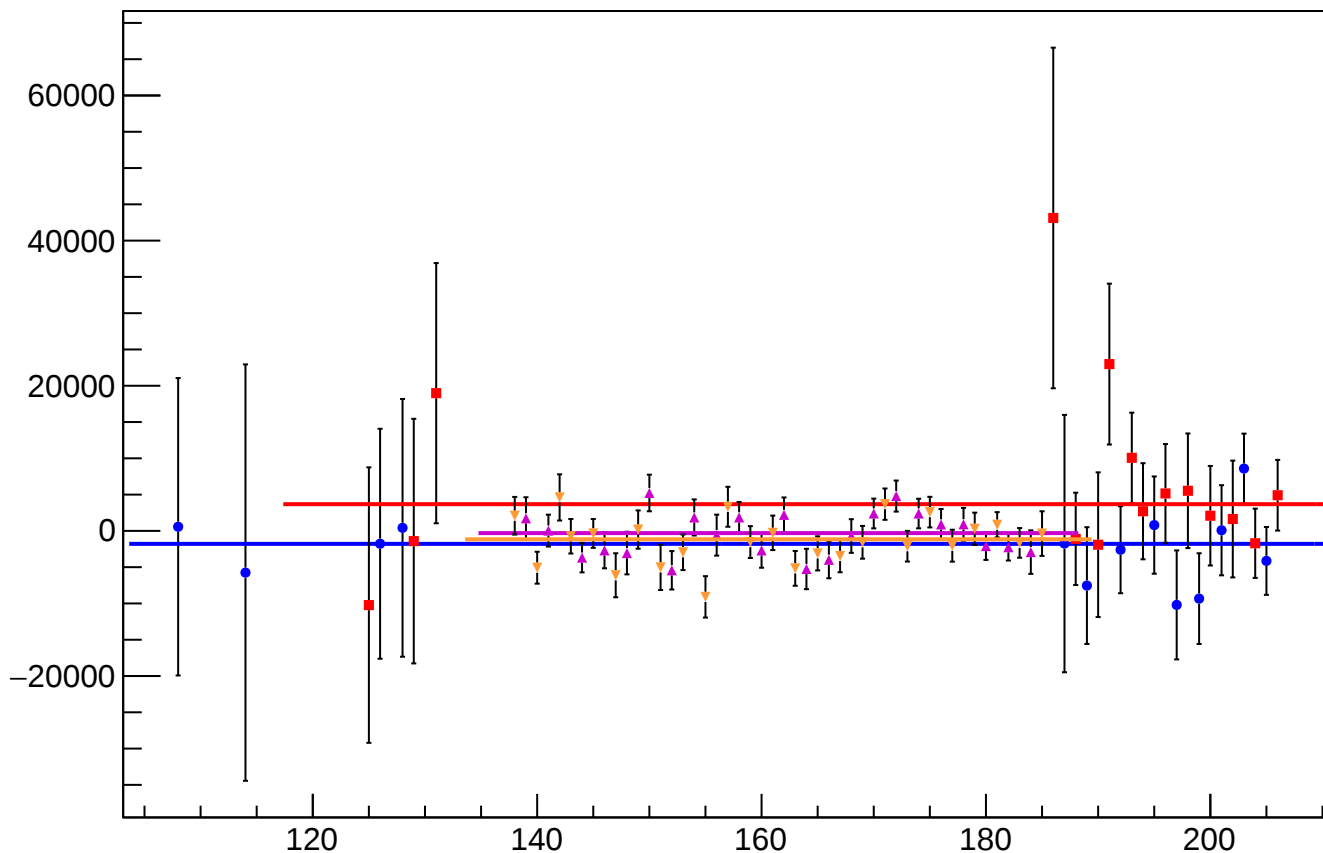
Right: 318.868+/-0.043 χ^2/NDF : 1947164.2/56

In: 279.097+/-0.036 χ^2/NDF : 1414518.1/48

Out: 282.651+/-0.035 χ^2/NDF : 2137000.2/55

All: 280.931+/-0.025 χ^2/NDF : 3556477.7/104

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -1787.334 $\pm$ 2051.792 χ^2 /NDF: 8.4/12

Left Out: -1161.443 $\pm$ 469.036 χ^2 /NDF:38.8/24

Right Out: 3680.224 $\pm$ 1949.484 χ^2 /NDF: 10.7/14

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

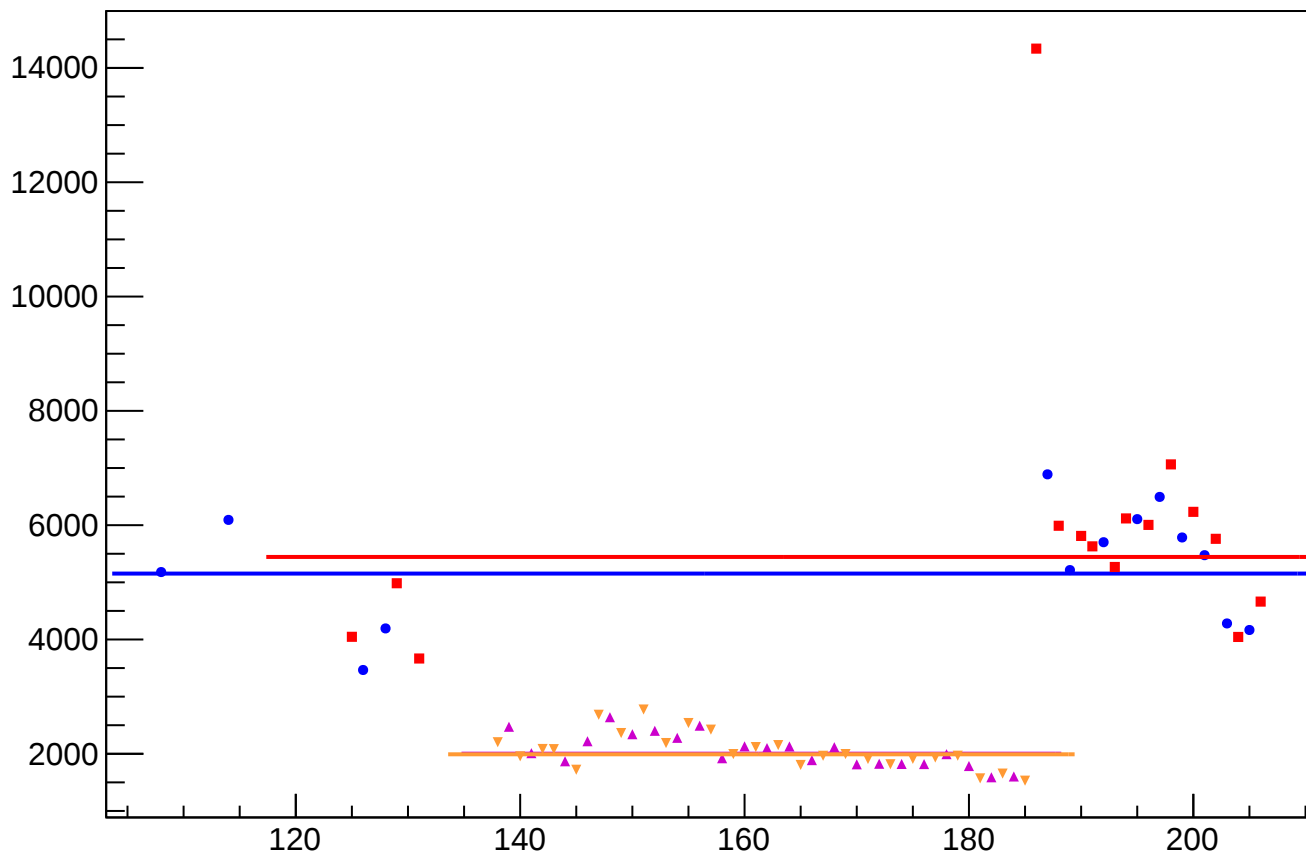
Right: 1086.154 $\pm$ 1413.278 χ^2 /NDF: 22.9/27

In: -382.468 $\pm$ 470.867 χ^2 /NDF:44.3/35

Out: -896.513 $\pm$ 456.023 χ^2 /NDF:55.3/39

All: -647.721 $\pm$ 327.579 χ^2 /NDF: 100.2/75

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5153.196+/-1.451 χ^2/NDF : 351423.8/12

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5444.216+/-1.378 χ^2/NDF : 710213.7/14

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

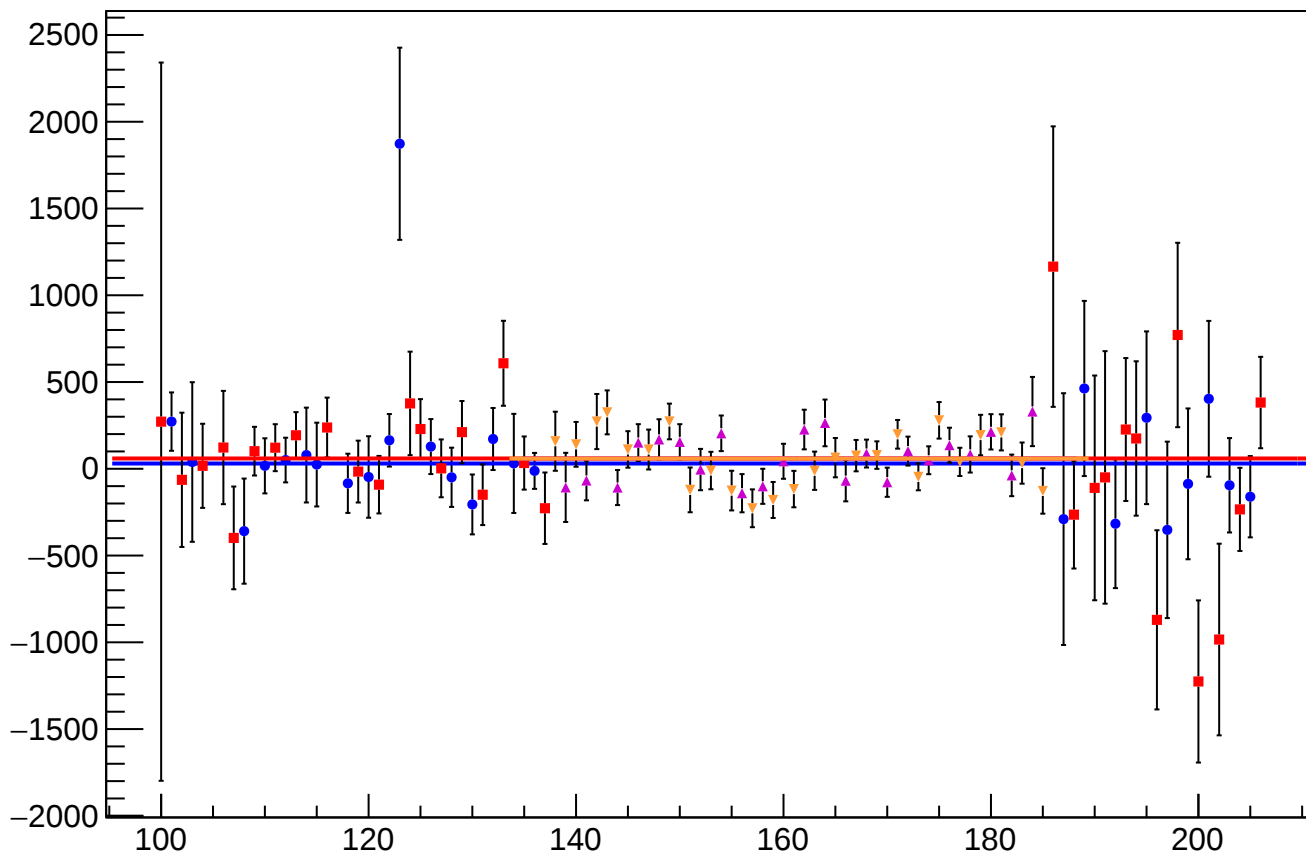
Right: 5306.143+/-0.999 χ^2/NDF : 1082783.3/27

In: 2168.106+/-0.333 χ^2/NDF : 5406006.6/35

Out: 2180.054+/-0.322 χ^2/NDF : 7368142.2/39

All: 2174.271+/-0.232 χ^2/NDF : 12774813.3/71

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 30.397 ± 41.230 χ^2/NDF : 23.7/25

Left Out: 58.983 ± 21.137 χ^2/NDF : 46.9/24

Right Out: 59.416 ± 40.500 χ^2/NDF : 39.8/30

Left In: 59.235 ± 21.921 χ^2/NDF : 29.4/22

Left: 59.104 ± 15.216 χ^2/NDF : 76.3/47

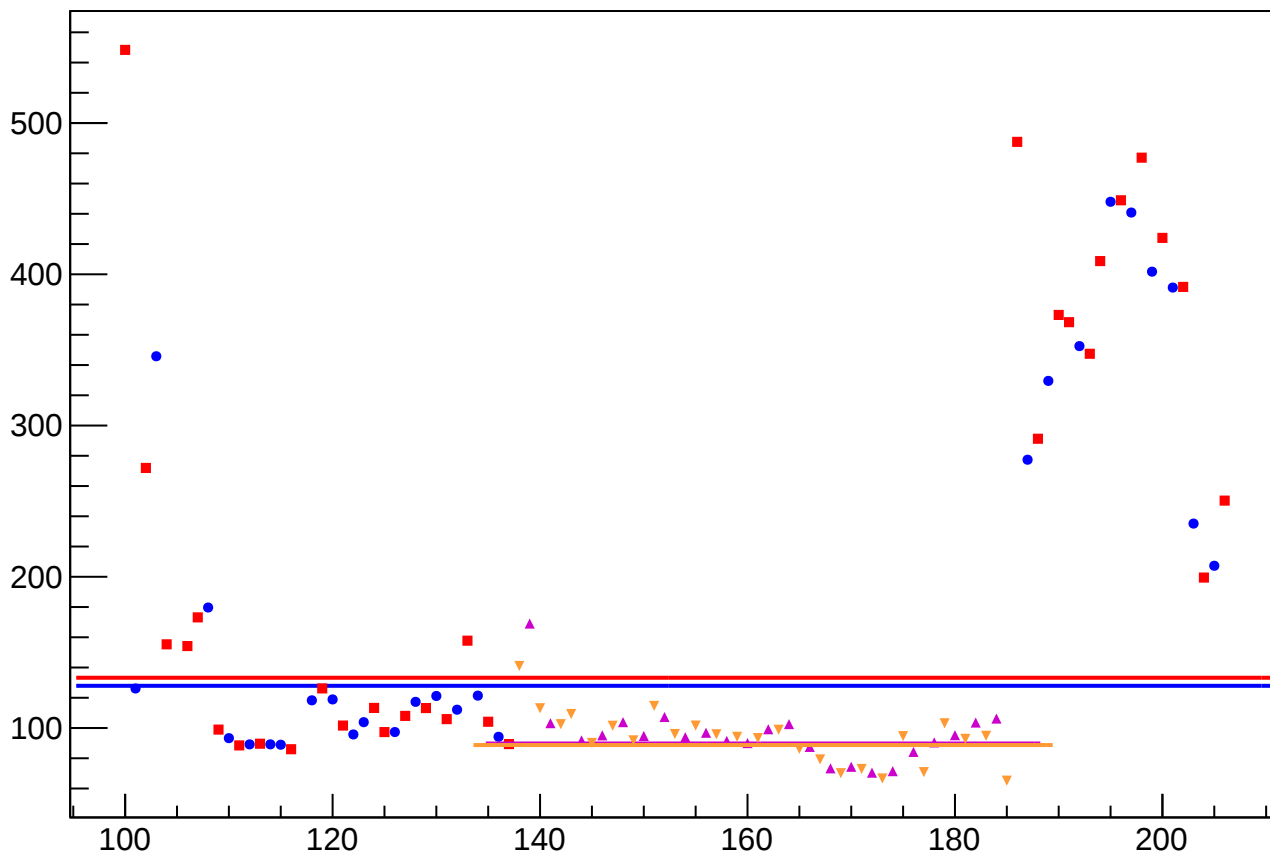
Right: 45.166 ± 28.893 χ^2/NDF : 63.8/56

In: 52.879 ± 19.355 χ^2/NDF : 53.5/48

Out: 59.075 ± 18.739 χ^2/NDF : 86.7/55

All: 56.078 ± 13.463 χ^2/NDF : 140.2/104

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 127.909 $\pm$ 0.029 χ^2 /NDF: 6036548.2/25

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF: 1079338.8/24

Right Out: 133.239 $\pm$ 0.029 χ^2 /NDF: 7616186.2/30

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

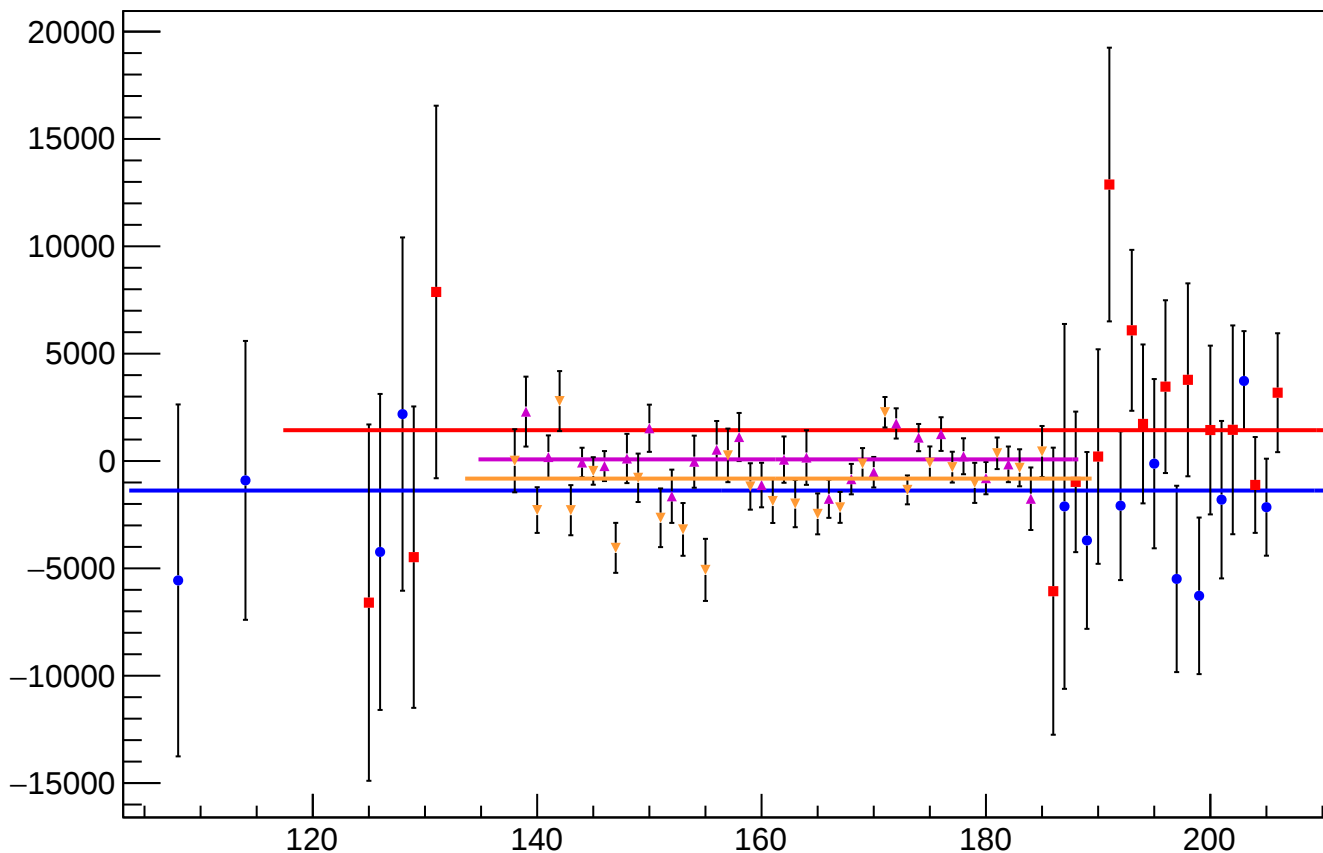
Right: 130.622 $\pm$ 0.020 χ^2 /NDF: 13669744.7/56

In: 98.172 $\pm$ 0.014 χ^2 /NDF: 8256864.3/48

Out: 98.273 $\pm$ 0.013 χ^2 /NDF: 10592402.6/55

All: 98.224 $\pm$ 0.010 χ^2 /NDF: 18849294.8/104

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -1375.669 $\pm$ 1068.120 χ^2 /NDF: 8.7/12

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: 1435.441 $\pm$ 1041.344 χ^2 /NDF: 11.1/14

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

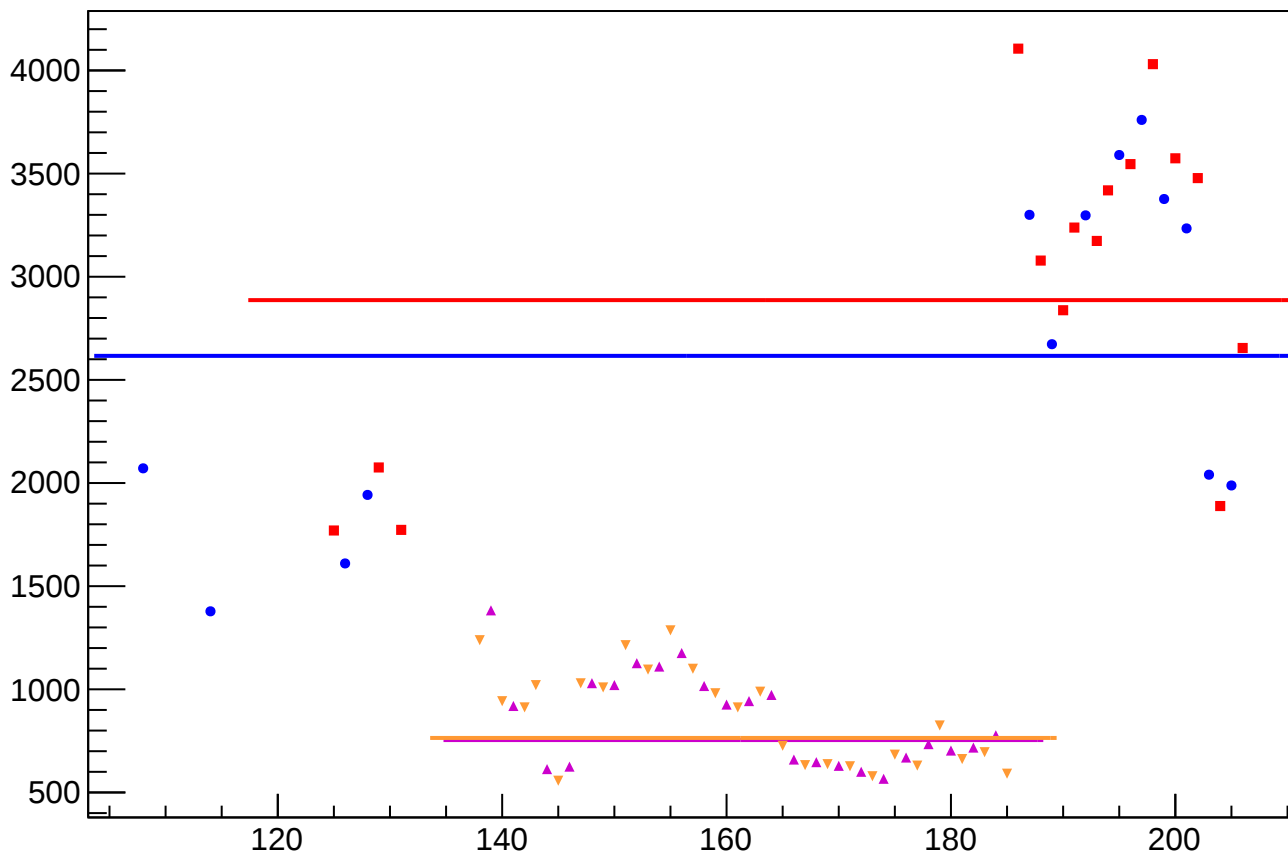
Right: 65.561 $\pm$ 745.628 χ^2 /NDF: 23.4/27

In: 33.183 $\pm$ 183.865 χ^2 /NDF:38.8/35

Out: -750.291 $\pm$ 181.636 χ^2 /NDF:83.8/39

All: -363.331 $\pm$ 129.217 χ^2 /NDF: 131.8/75

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2616.470+/-0.755 χ^2/NDF : 905564.3/12

Left Out: 764.280+/-0.130 χ^2/NDF : 2315985.8/24

Right Out: 2886.633+/-0.736 χ^2/NDF : 916678.4/14

Left In: 754.027+/-0.132 χ^2/NDF : 2013386.7/22

Left: 759.214+/-0.093 χ^2/NDF : 4332425.4/47

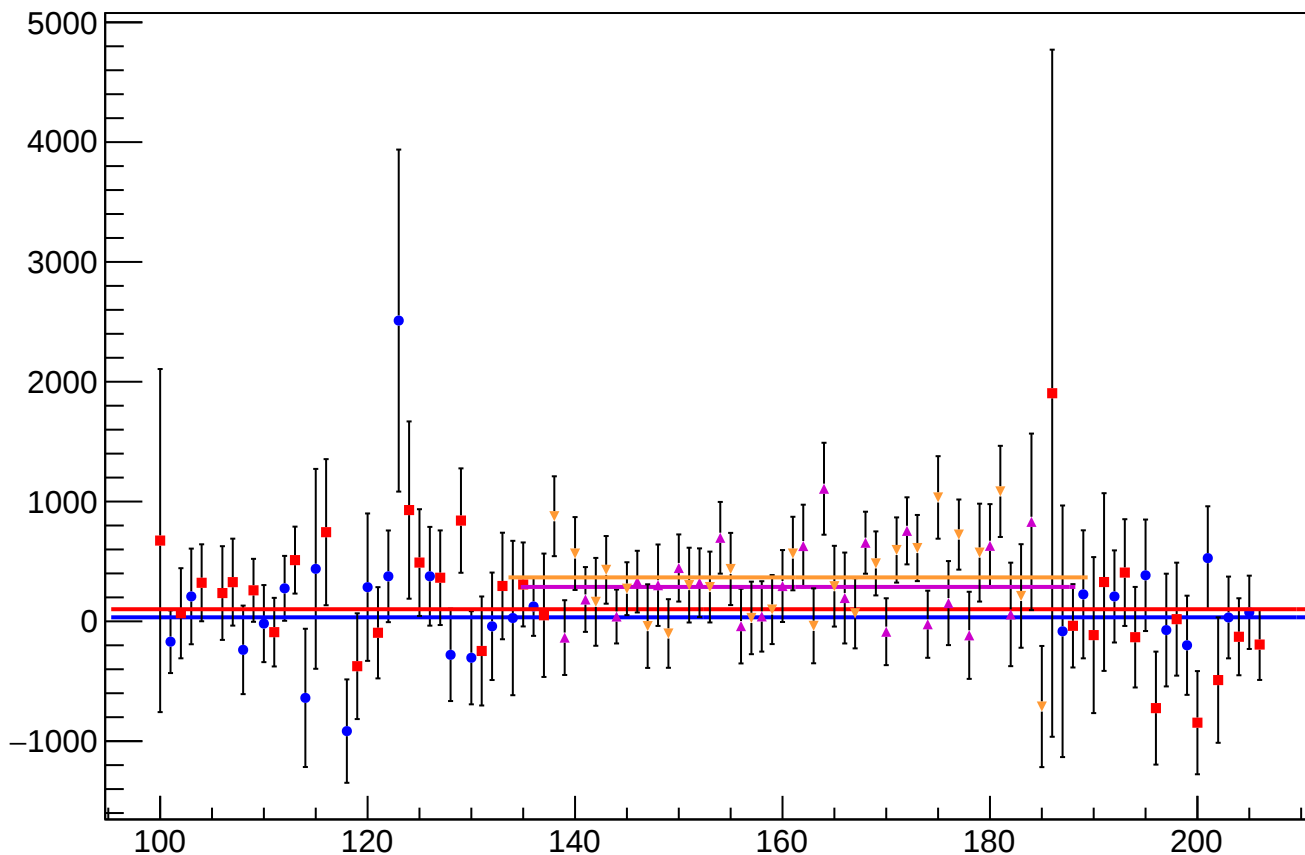
Right: 2754.980+/-0.527 χ^2/NDF : 1887841.7/27

In: 809.214+/-0.130 χ^2/NDF : 8819508.6/35

Out: 828.850+/-0.128 χ^2/NDF : 11287534.8/39

All: 819.152+/-0.091 χ^2/NDF : 20118587.9/75

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 33.689+/-77.791 χ^2/NDF : 17.5/25

Left Out: 367.028+/-61.943 χ^2/NDF : 28.2/24

Right Out: 101.230+/-72.856 χ^2/NDF : 25.4/30

Left In: 287.246+/-64.141 χ^2/NDF : 23.9/22

Left: 328.527+/-44.557 χ^2/NDF : 52.9/47

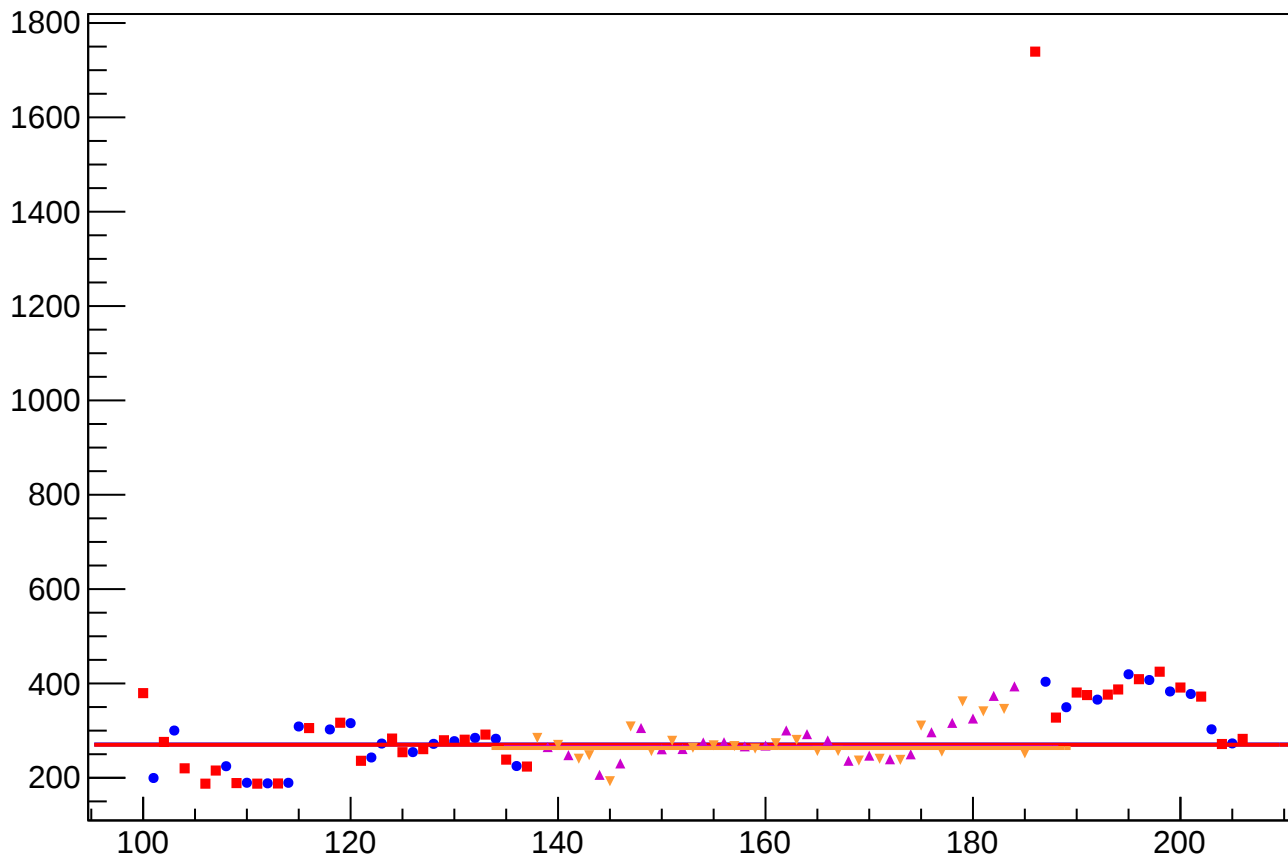
Right: 69.670+/-53.176 χ^2/NDF : 43.2/56

In: 184.630+/-49.488 χ^2/NDF : 47.7/48

Out: 255.506+/-47.192 χ^2/NDF : 61.3/55

All: 221.750+/-34.153 χ^2/NDF : 110.1/104

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 270.607 $\pm$ 0.055 χ^2 /NDF: 1512528.3/25

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 270.072 $\pm$ 0.052 χ^2 /NDF: 2388440.7/30

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

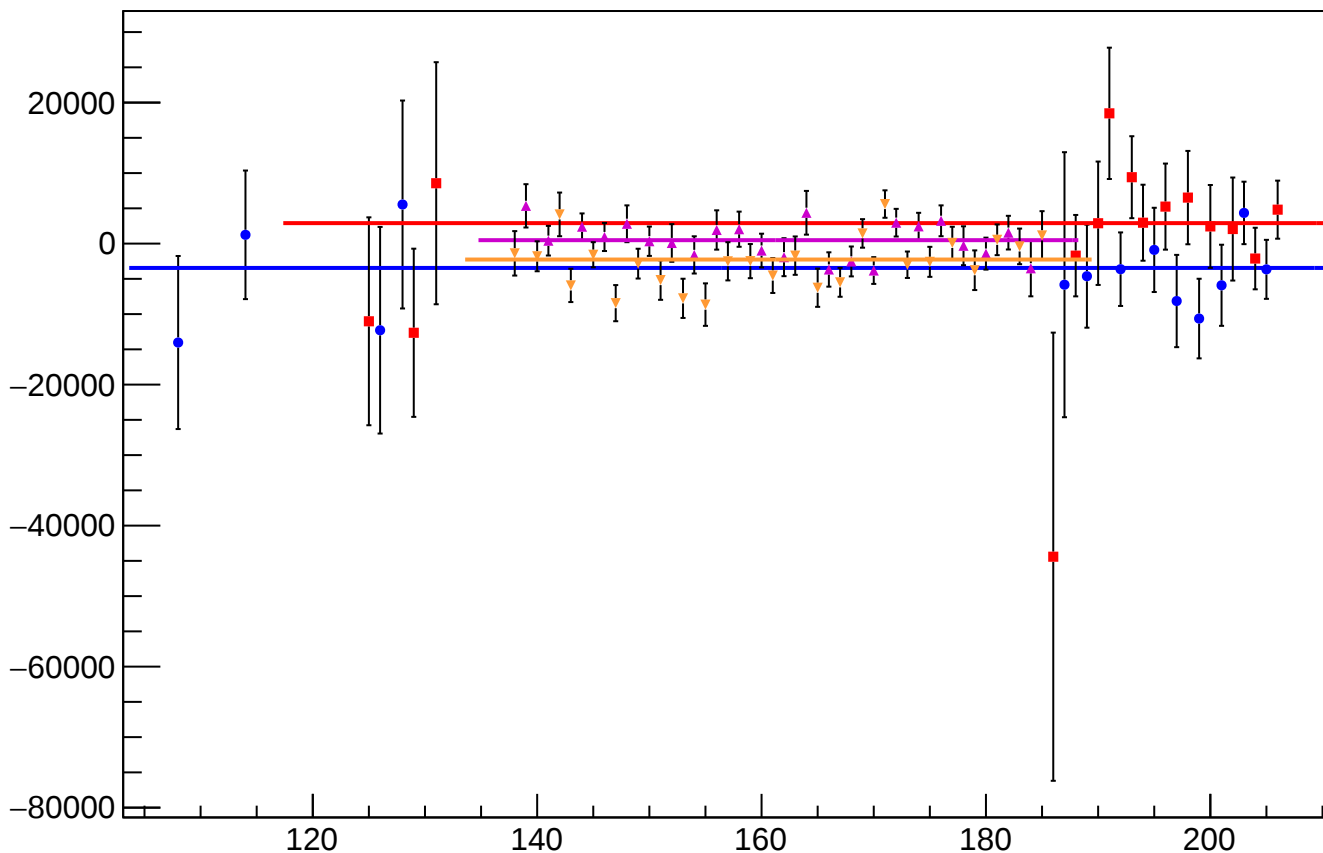
Right: 270.322 $\pm$ 0.038 χ^2 /NDF: 3901019.4/56

In: 267.223 $\pm$ 0.035 χ^2 /NDF: 2127910.1/48

Out: 266.027 $\pm$ 0.033 χ^2 /NDF: 3041287.4/55

All: 266.597 $\pm$ 0.024 χ^2 /NDF: 5169810.1/104

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -3452.023 ± 1803.860 χ^2/NDF : 7.4/12

Left Out: -2260.196 ± 475.336 χ^2/NDF : 52.3/24

Right Out: 2902.867 ± 1706.389 χ^2/NDF : 11.6/14

Left In: 485.590 ± 487.465 χ^2/NDF : 24.8/22

Left: -921.890 ± 340.321 χ^2/NDF : 93.4/47

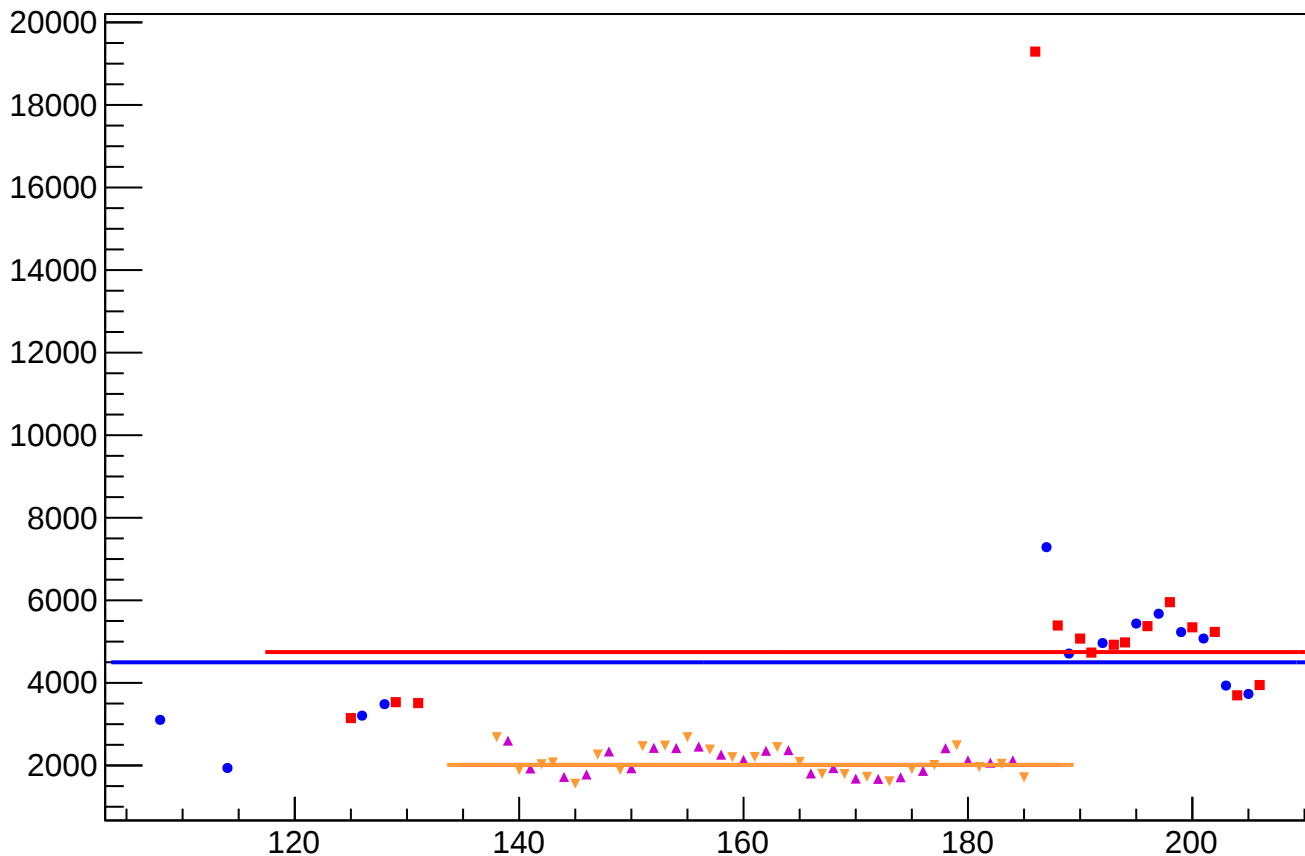
Right: -98.255 ± 1239.626 χ^2/NDF : 25.6/27

In: 217.609 ± 470.585 χ^2/NDF : 36.6/35

Out: -1888.408 ± 457.902 χ^2/NDF : 72.4/39

All: -864.164 ± 328.178 χ^2/NDF : 119.3/75

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4498.626+/-1.276 χ^2/NDF : 537391.4/12

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4746.666+/-1.207 χ^2/NDF : 814805.0/14

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

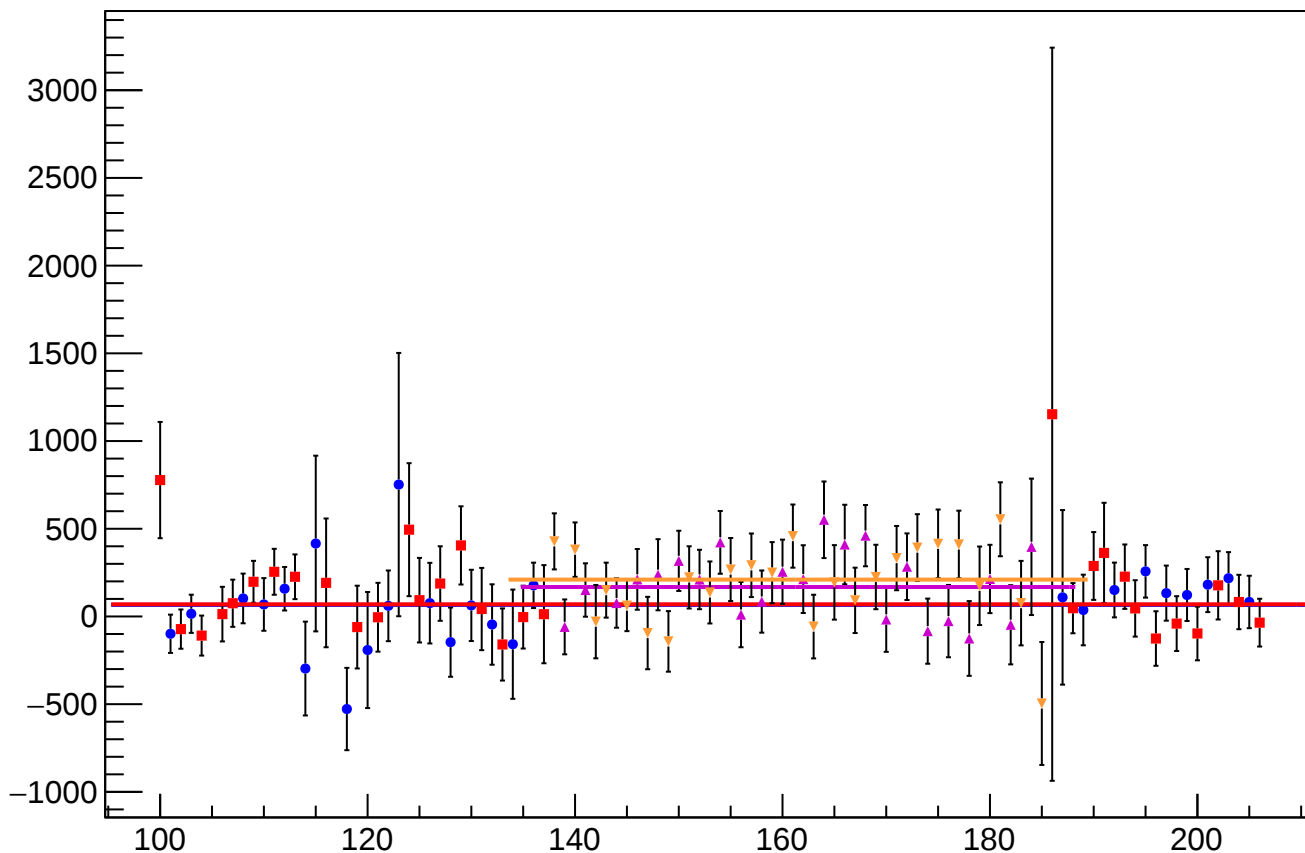
Right: 4629.528+/-0.877 χ^2/NDF : 1372153.3/27

In: 2182.392+/-0.333 χ^2/NDF : 4737809.6/35

Out: 2210.875+/-0.324 χ^2/NDF : 6409912.2/39

All: 2197.023+/-0.232 χ^2/NDF : 11151485.3/71

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 66.036+/-33.548 χ^2/NDF : 19.8/25

Left Out: 210.086+/-37.093 χ^2/NDF :27.5/24

Right Out: 69.157+/-30.719 χ^2/NDF : 26.8/30

Left In: 167.822+/-38.718 χ^2/NDF :21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

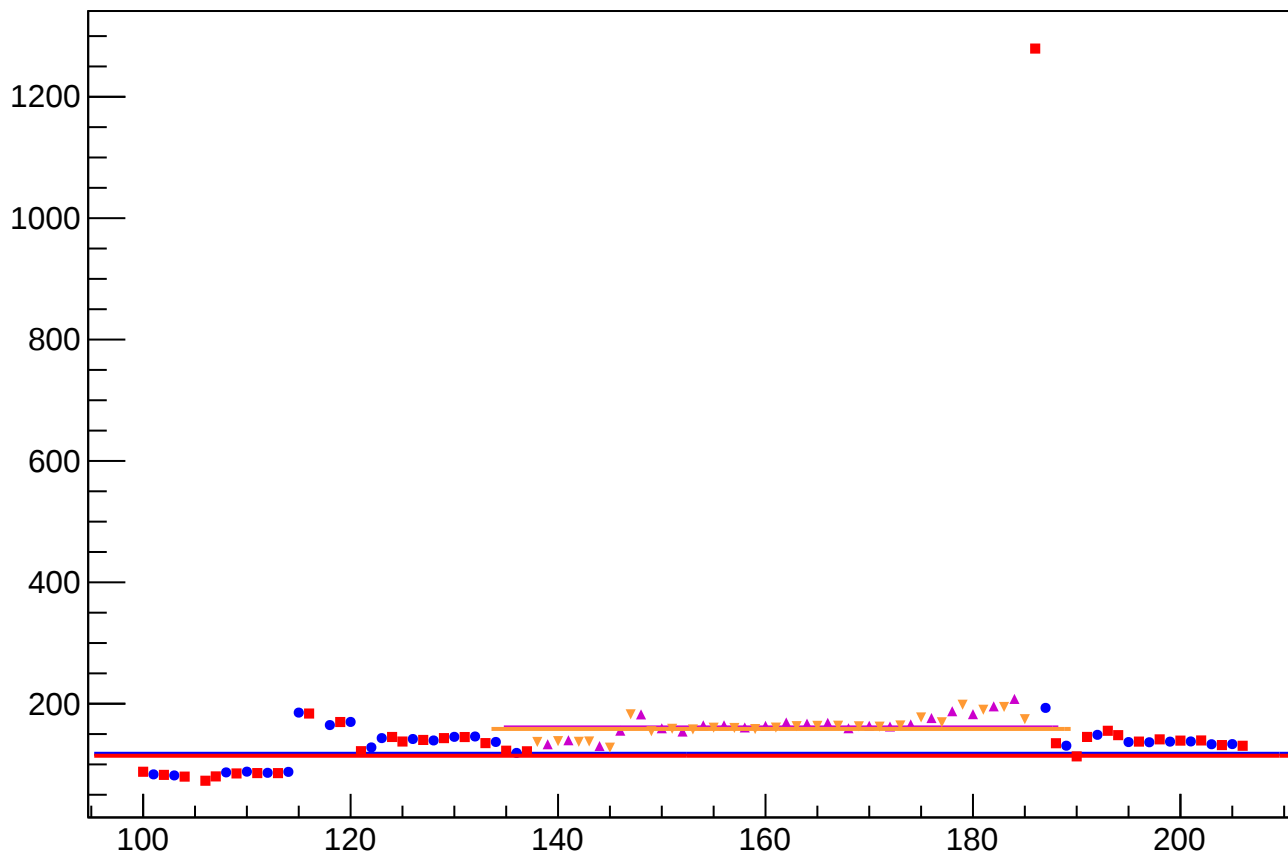
Right: 67.734+/-22.656 χ^2/NDF : 46.7/56

In: 109.685+/-25.354 χ^2/NDF :44.9/48

Out: 126.489+/-23.659 χ^2/NDF :62.9/55

All: 118.668+/-17.298 χ^2/NDF : 108.1/104

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 117.515 $\pm$ 0.024 χ^2 /NDF: 1344615.0/25

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 114.284 $\pm$ 0.022 χ^2 /NDF: 2402220.7/30

Left In: 160.947 $\pm$ 0.027 χ^2 /NDF: 379713.4/22

Left: 159.640 $\pm$ 0.019 χ^2 /NDF: 818385.9/47

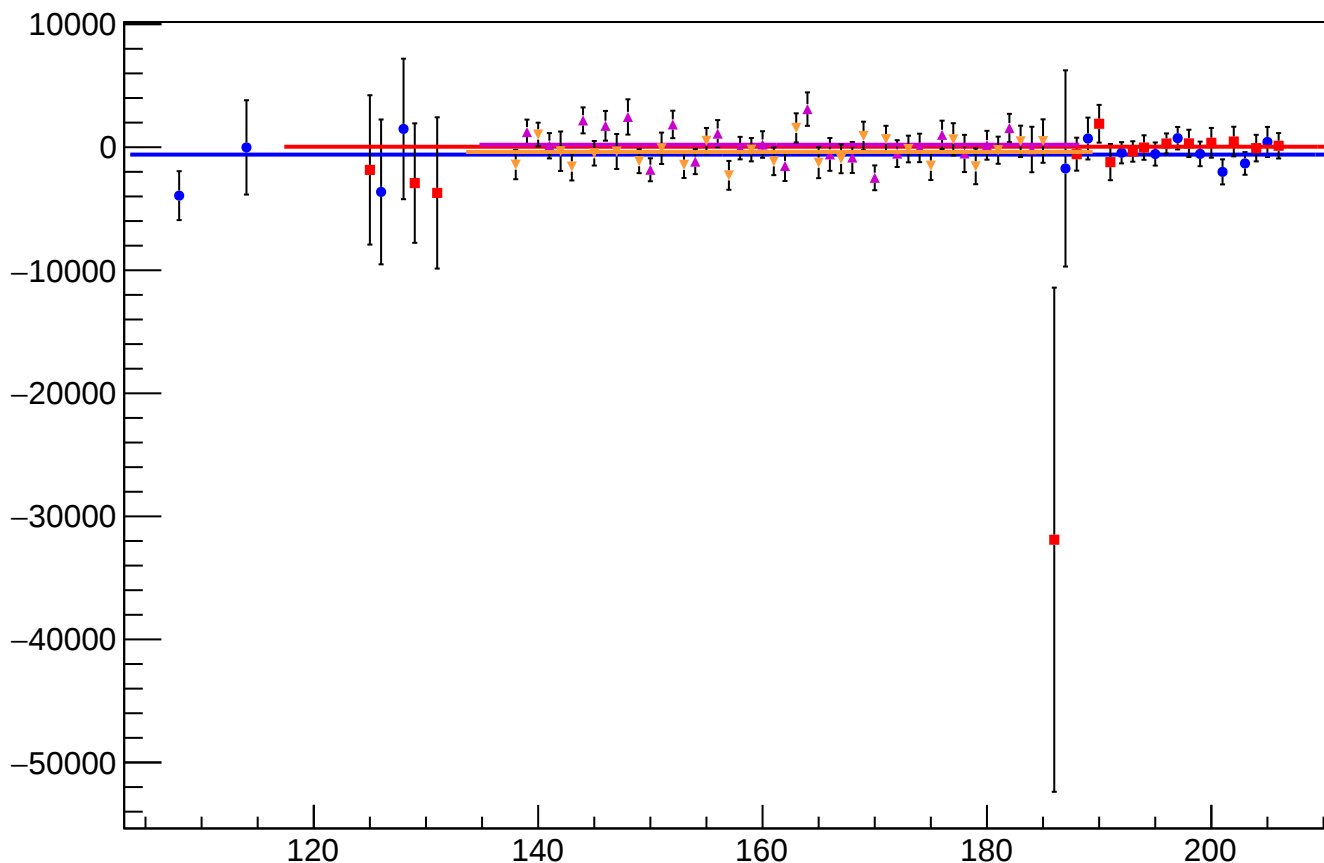
Right: 115.757 $\pm$ 0.016 χ^2 /NDF: 3756928.5/56

In: 136.140 $\pm$ 0.018 χ^2 /NDF: 3161785.9/48

Out: 132.247 $\pm$ 0.017 χ^2 /NDF: 4517706.7/55

All: 134.059 $\pm$ 0.012 χ^2 /NDF: 7704694.8/104

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -599.054+/-348.442 χ^2/NDF : 9.2/12

Left Out: -385.018+/-231.833 χ^2/NDF :18.1/24

Right Out: 40.192+/-324.866 χ^2/NDF : 6.3/14

Left In: 202.234+/-237.460 χ^2/NDF :35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

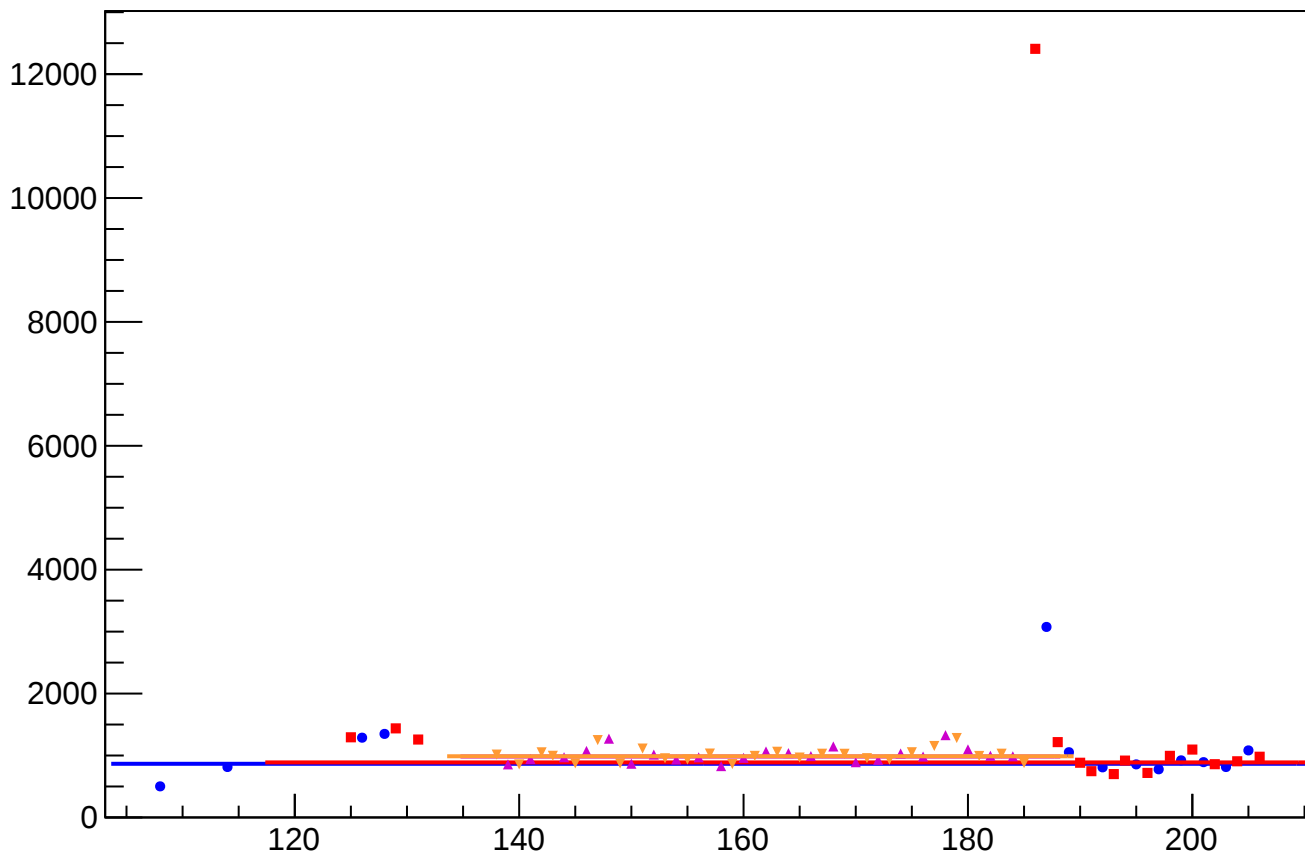
Right: -257.075+/-237.613 χ^2/NDF : 17.3/27

In: -51.886+/-196.226 χ^2/NDF :48.3/35

Out: -241.542+/-188.709 χ^2/NDF :25.5/39

All: -150.416+/-136.017 χ^2/NDF : 74.3/75

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 866.318+/-0.246 χ^2/NDF : 374171.1/12

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 888.637+/-0.230 χ^2/NDF : 1097508.9/14

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

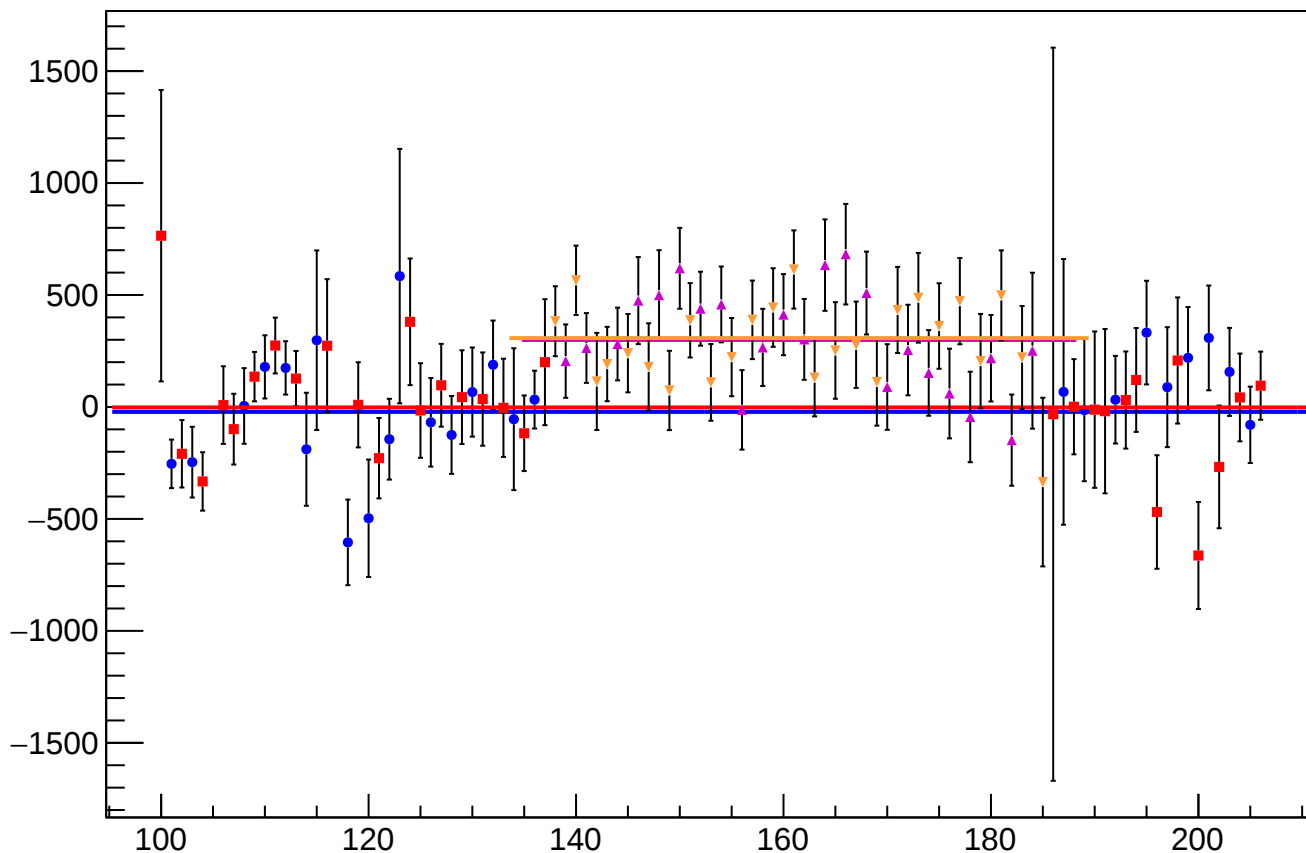
Right: 878.258+/-0.168 χ^2/NDF : 1476069.7/27

In: 946.605+/-0.139 χ^2/NDF : 945937.4/35

Out: 954.385+/-0.133 χ^2/NDF : 1598107.8/39

All: 950.647+/-0.096 χ^2/NDF : 2545678.6/75

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -21.956 ± 37.078 χ^2/NDF : 35.2/25

Left Out: 307.487 ± 37.278 χ^2/NDF : 20.7/24

Right Out: -2.157 ± 34.380 χ^2/NDF : 36.6/30

Left In: 299.192 ± 39.009 χ^2/NDF : 28.5/22

Left: 303.528 ± 26.951 χ^2/NDF : 49.3/47

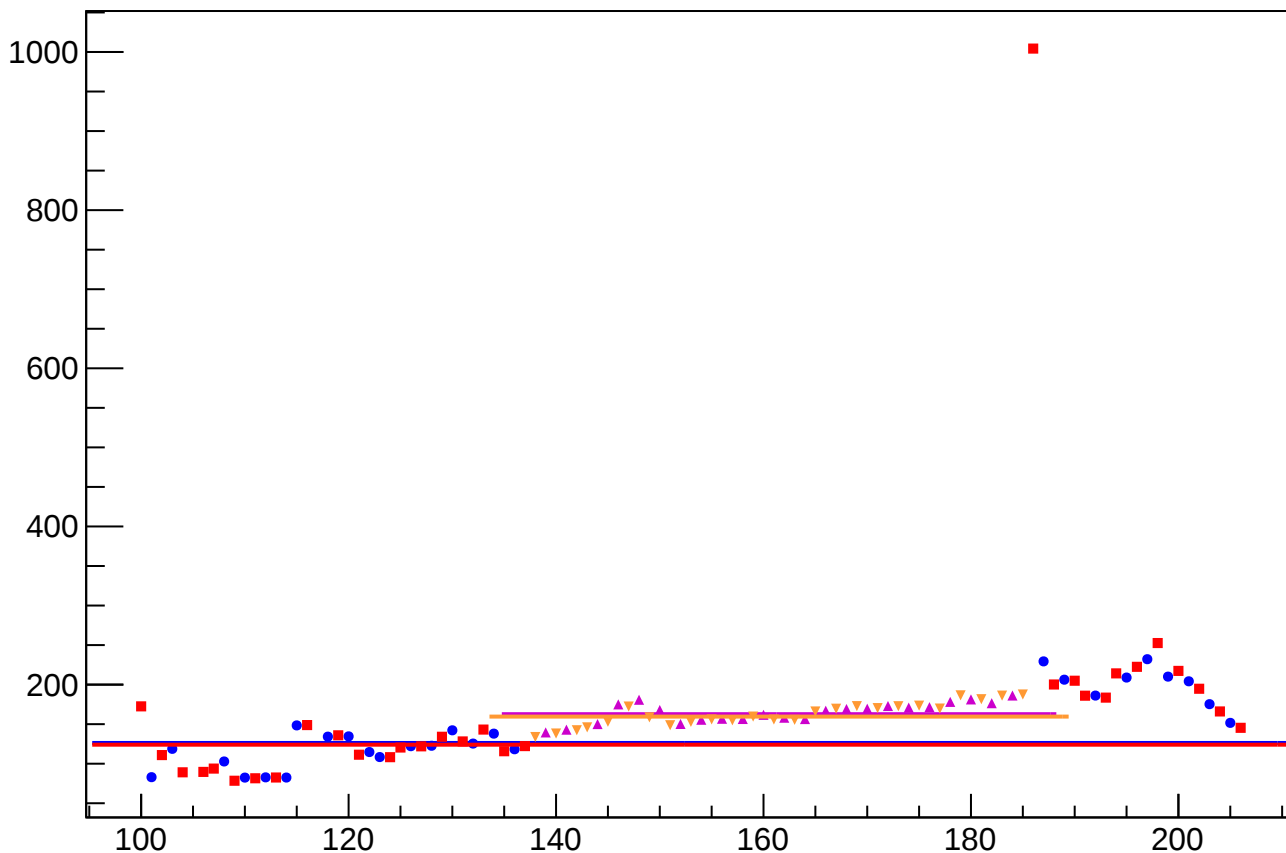
Right: -11.310 ± 25.210 χ^2/NDF : 72.0/56

In: 130.473 ± 26.875 χ^2/NDF : 99.3/48

Out: 140.165 ± 25.273 χ^2/NDF : 94.6/55

All: 135.617 ± 18.411 χ^2/NDF : 194.0/104

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 126.217 $\pm$ 0.026 χ^2 /NDF: 2534664.7/25

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF: 287744.2/24

Right Out: 124.043 $\pm$ 0.024 χ^2 /NDF: 3926413.7/30

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF: 199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

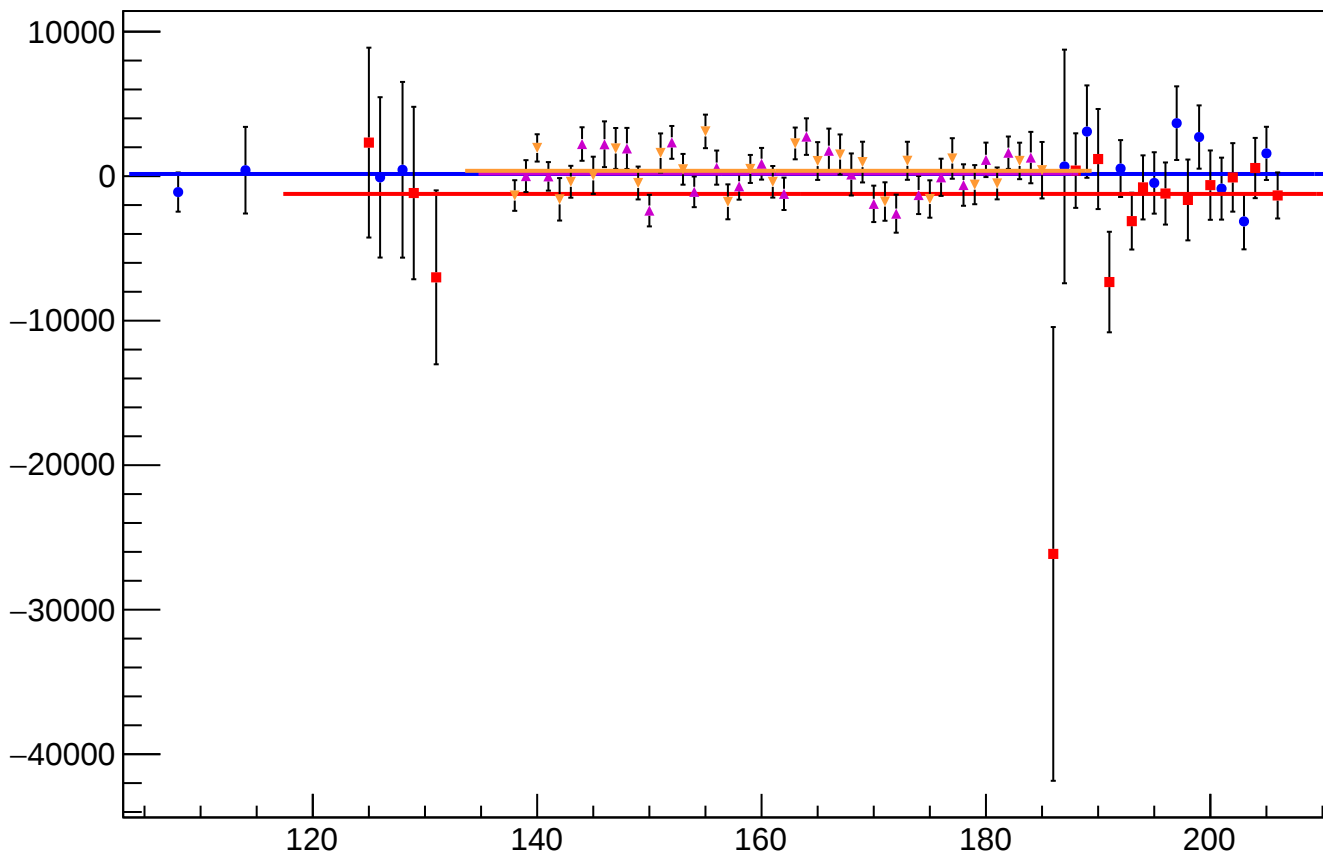
Right: 125.048 $\pm$ 0.018 χ^2 /NDF: 6464776.5/56

In: 143.489 $\pm$ 0.019 χ^2 /NDF: 3648536.3/48

Out: 140.372 $\pm$ 0.018 χ^2 /NDF: 5195688.0/55

All: 141.835 $\pm$ 0.013 χ^2 /NDF: 8858505.4/104

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 151.053+/-638.845 χ^2/NDF : 8.8/12

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -1228.863+/-677.069 χ^2/NDF : 9.7/14

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

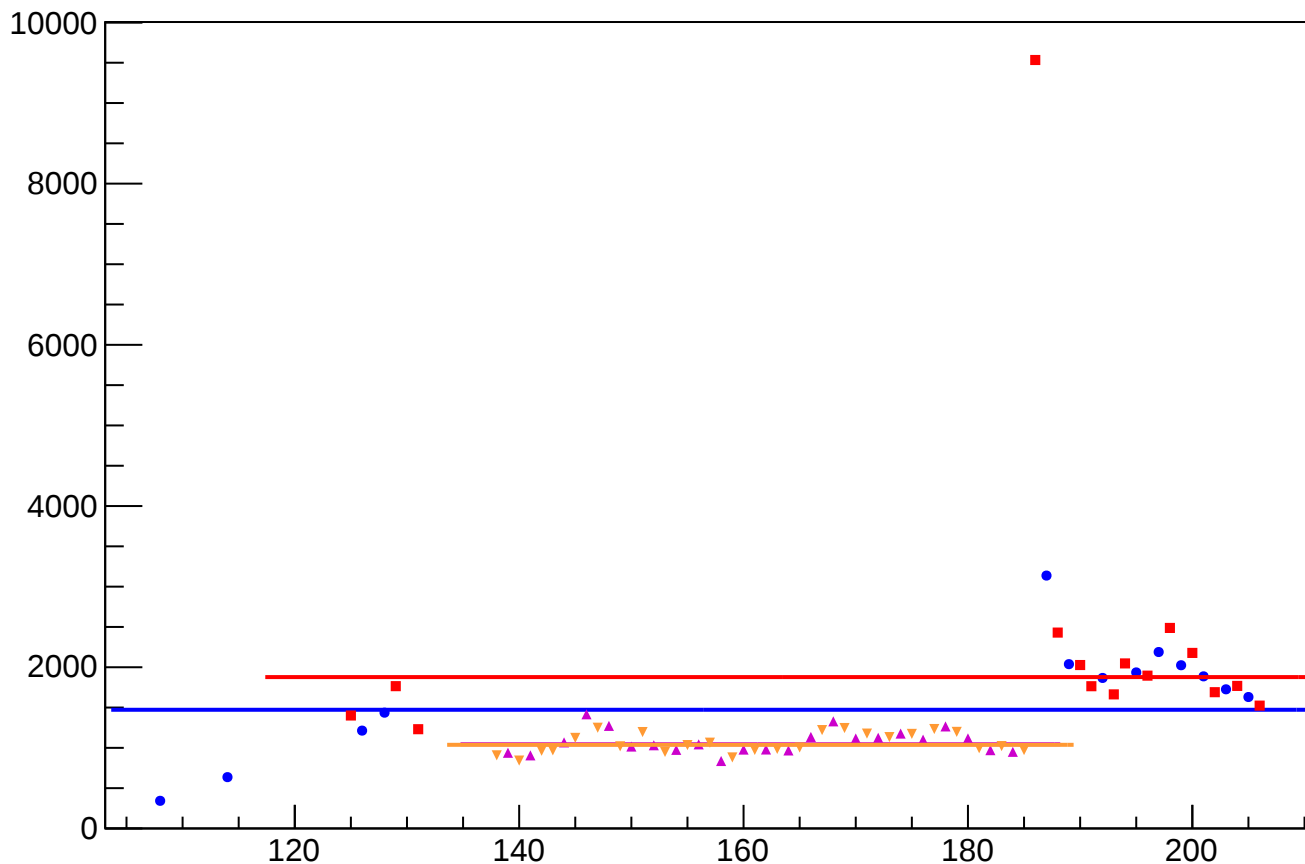
Right: -498.855+/-464.657 χ^2/NDF : 20.7/27

In: 178.783+/-234.629 χ^2/NDF :45.3/35

Out: 186.861+/-229.150 χ^2/NDF :45.1/39

All: 182.917+/-163.936 χ^2/NDF : 90.4/75

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1472.410+/-0.452 χ^2/NDF : 2278813.2/12

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1877.911+/-0.479 χ^2/NDF : 886006.3/14

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

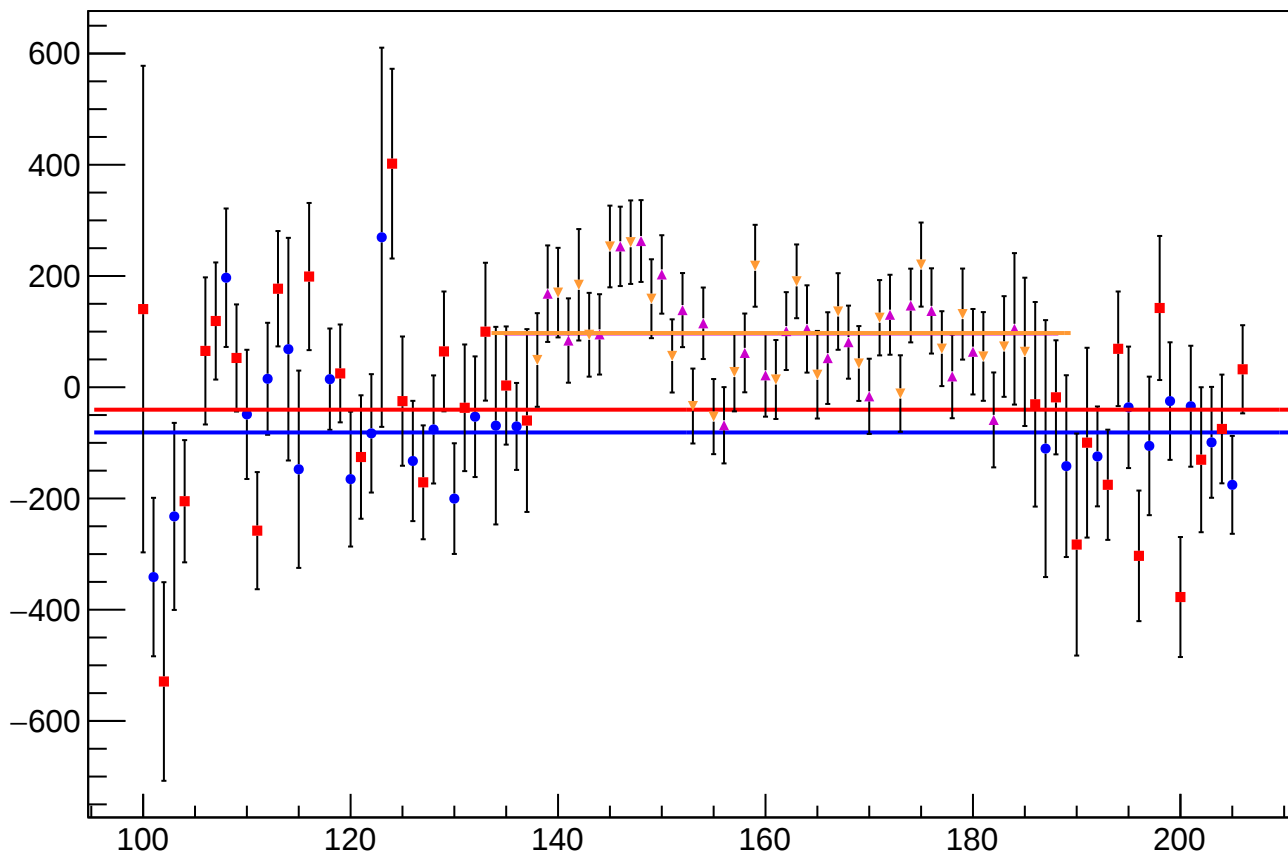
Right: 1663.392+/-0.329 χ^2/NDF : 3544329.0/27

In: 1102.432+/-0.166 χ^2/NDF : 3597515.0/35

Out: 1133.932+/-0.162 χ^2/NDF : 4108199.6/39

All: 1118.554+/-0.116 χ^2/NDF : 7724163.8/75

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -81.307 ± 22.535 $\chi^2/\text{NDF}: 17.5/25$

Left Out: 97.445 ± 14.880 $\chi^2/\text{NDF}: 36.0/24$

Right Out: -40.358 ± 20.834 $\chi^2/\text{NDF}: 60.4/30$

Left In: 96.704 ± 15.369 $\chi^2/\text{NDF}: 29.2/22$

Left: 97.087 ± 10.690 $\chi^2/\text{NDF}: 65.2/47$

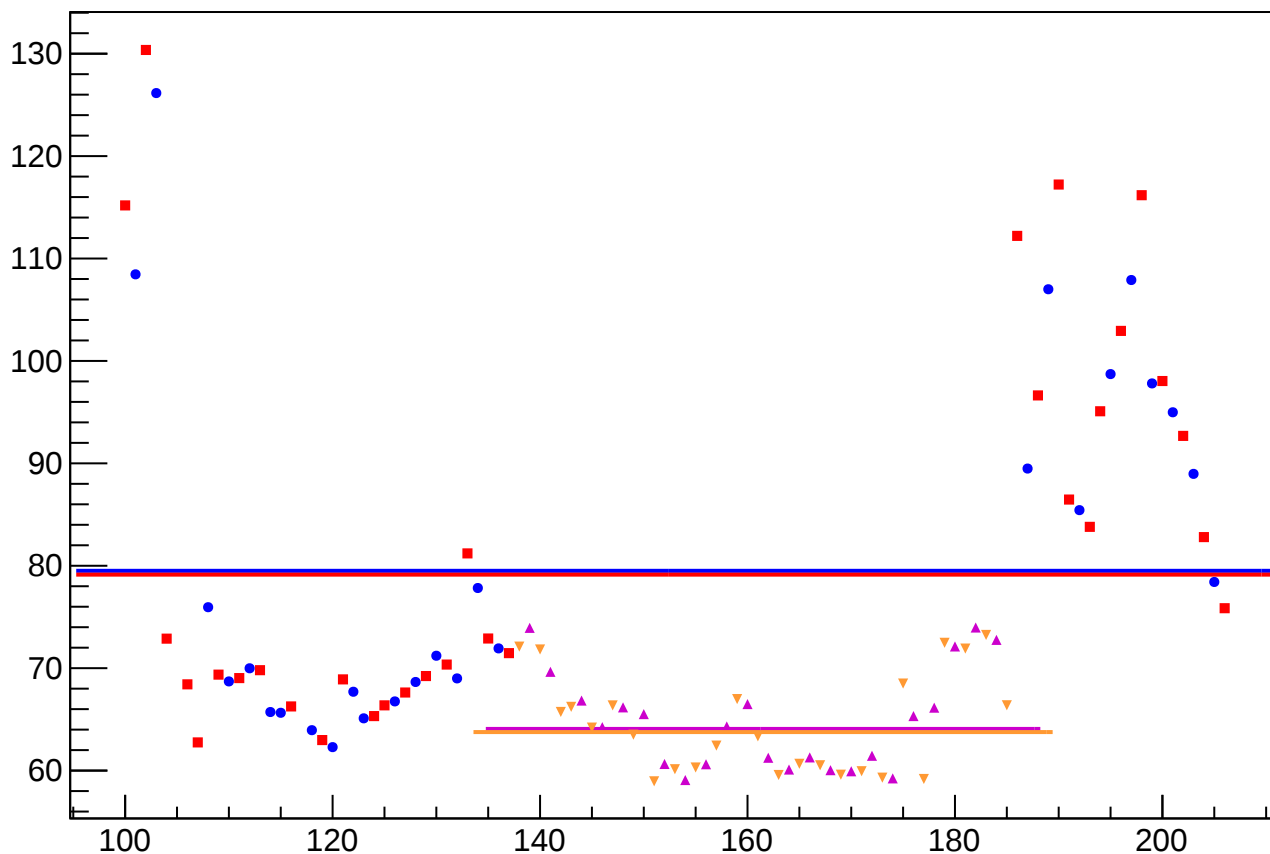
Right: -59.228 ± 15.298 $\chi^2/\text{NDF}: 79.7/56$

In: 40.191 ± 12.697 $\chi^2/\text{NDF}: 89.3/48$

Out: 50.896 ± 12.109 $\chi^2/\text{NDF}: 125.4/55$

All: 45.797 ± 8.763 $\chi^2/\text{NDF}: 215.1/104$

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 79.506 $\pm$ 0.016 χ^2 /NDF: 879986.8/25

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF:192803.8/24

Right Out: 79.134 $\pm$ 0.015 χ^2 /NDF: 1094746.3/30

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

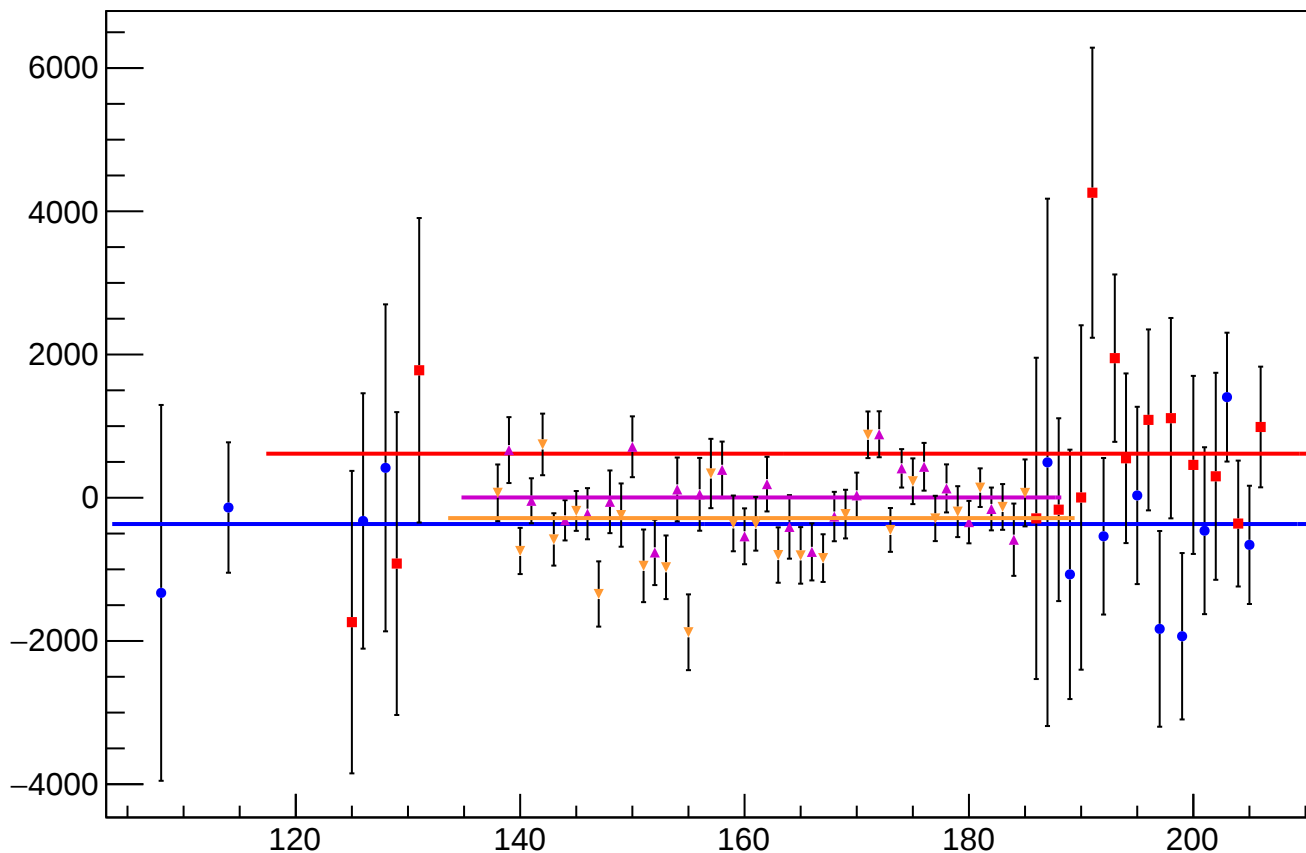
Right: 79.306 $\pm$ 0.011 χ^2 /NDF: 1975027.3/56

In: 68.970 $\pm$ 0.009 χ^2 /NDF:1685262.9/48

Out: 68.954 $\pm$ 0.009 χ^2 /NDF:2008670.2/55

All: 68.961 $\pm$ 0.006 χ^2 /NDF: 3693934.6/104

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -366.988 ± 343.687 $\chi^2/\text{NDF}: 7.6/12$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 615.284 ± 346.916 $\chi^2/\text{NDF}: 9.0/14$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

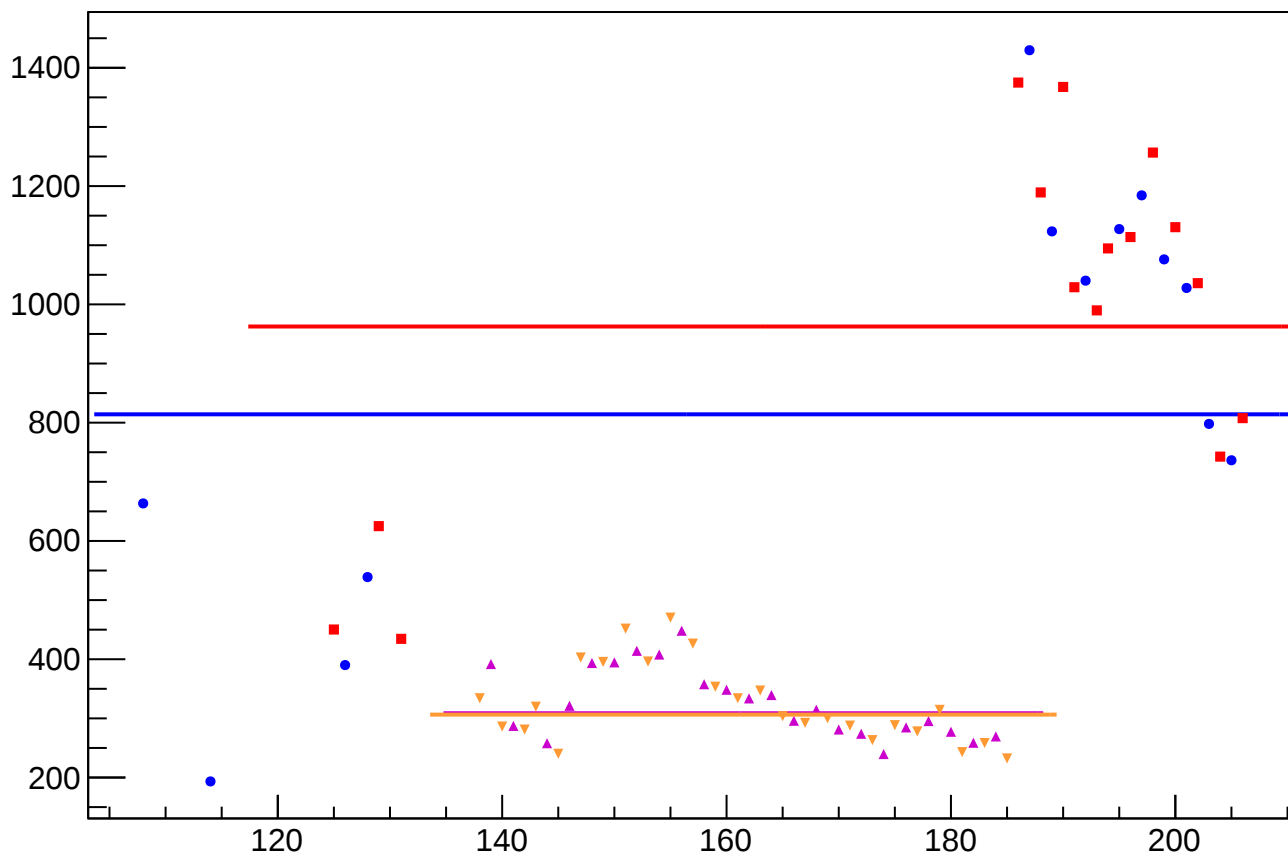
Right: 119.556 ± 244.157 $\chi^2/\text{NDF}: 20.7/27$

In: -12.865 ± 73.354 $\chi^2/\text{NDF}: 41.1/35$

Out: -246.427 ± 71.185 $\chi^2/\text{NDF}: 70.5/39$

All: -133.151 ± 51.085 $\chi^2/\text{NDF}: 116.8/75$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 814.110+/-0.243 χ^2/NDF : 1744733.5/12

Left Out: 306.363+/-0.051 χ^2/NDF : 1215669.9/24

Right Out: 962.584+/-0.245 χ^2/NDF : 859156.5/14

Left In: 308.727+/-0.053 χ^2/NDF : 1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

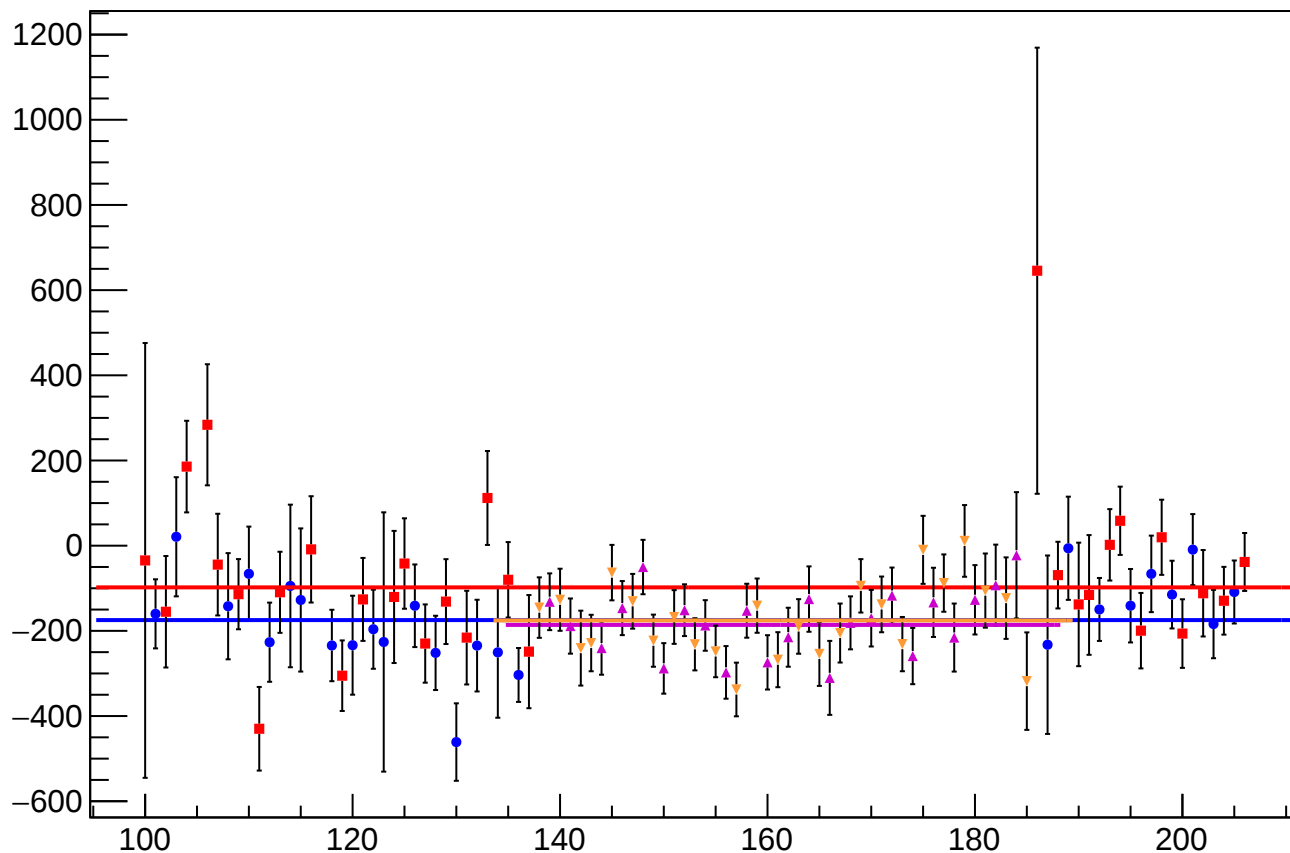
Right: 887.653+/-0.173 χ^2/NDF : 2788771.7/27

In: 331.749+/-0.052 χ^2/NDF : 6875267.4/35

Out: 333.993+/-0.050 χ^2/NDF : 8929722.0/39

All: 332.904+/-0.036 χ^2/NDF : 15805953.3/75

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -174.717 $\pm$ 18.967 χ^2 /NDF: 29.0/25

Left Out: -175.471 $\pm$ 13.846 χ^2 /NDF:34.6/24

Right Out: -97.902 $\pm$ 17.996 χ^2 /NDF: 54.8/30

Left In: -186.047 $\pm$ 14.315 χ^2 /NDF:23.6/22

Left: -180.583 $\pm$ 9.952 χ^2 /NDF: 58.5/47

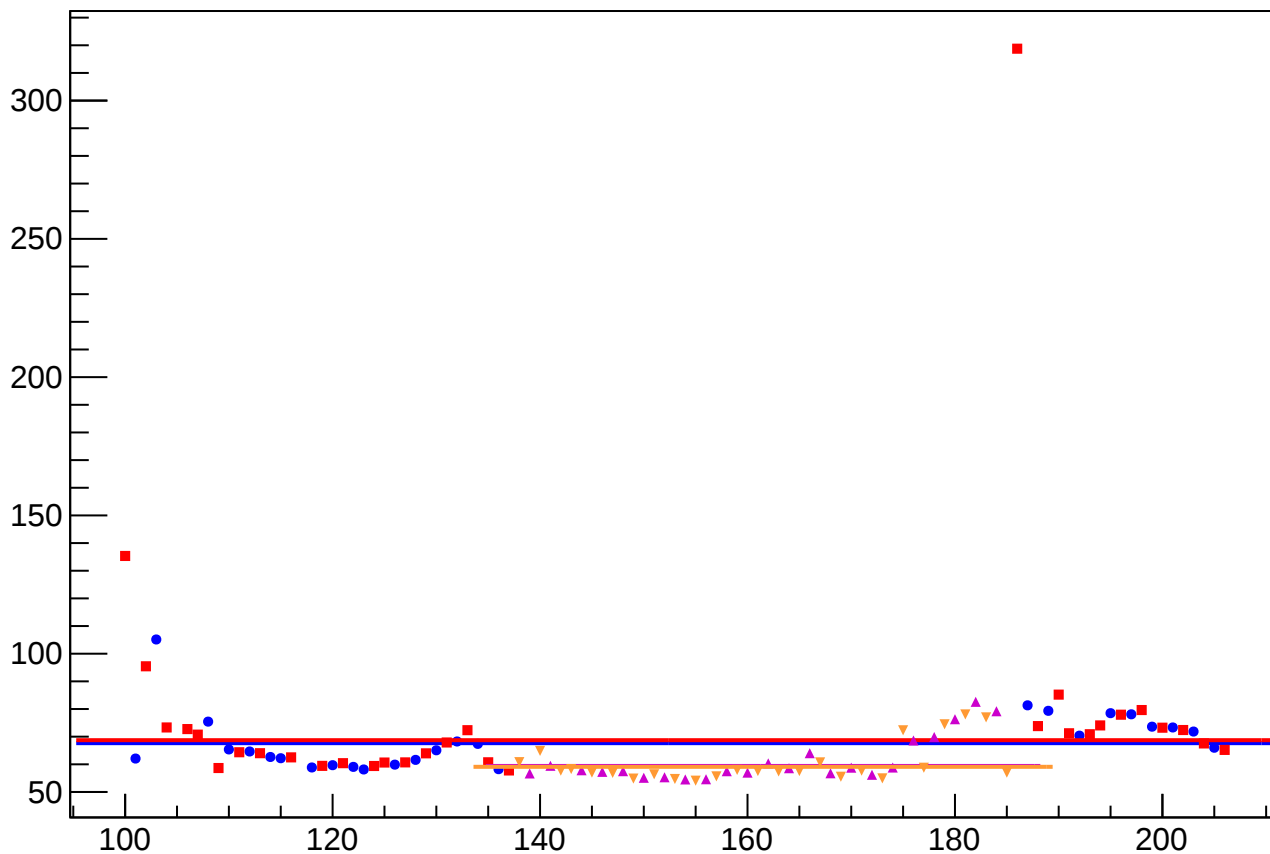
Right: -134.293 $\pm$ 13.055 χ^2 /NDF: 92.4/56

In: -181.935 $\pm$ 11.426 χ^2 /NDF:52.8/48

Out: -146.628 $\pm$ 10.974 χ^2 /NDF:101.1/55

All: -163.568 $\pm$ 7.915 χ^2 /NDF: 158.8/104

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.650 $\pm$ 0.013 χ^2 /NDF: 401362.3/25

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.727 $\pm$ 0.013 χ^2 /NDF: 845260.4/30

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

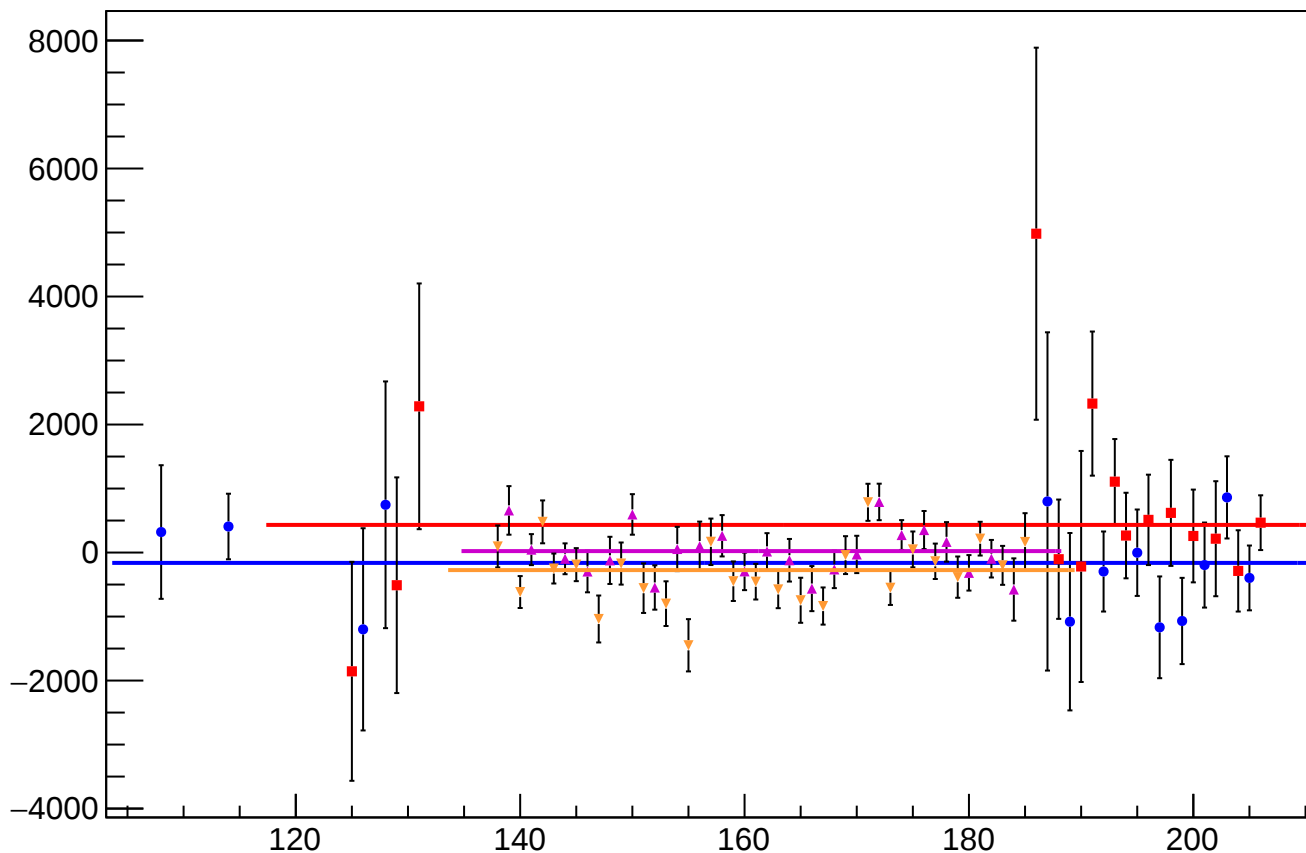
Right: 68.217 $\pm$ 0.009 χ^2 /NDF: 1250014.2/56

In: 62.401 $\pm$ 0.008 χ^2 /NDF: 1014887.7/48

Out: 62.679 $\pm$ 0.008 χ^2 /NDF: 1574617.7/55

All: 62.546 $\pm$ 0.006 χ^2 /NDF: 2590123.6/104

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -161.672 ± 207.644 $\chi^2/\text{NDF}: 8.9/12$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 431.885 ± 211.410 $\chi^2/\text{NDF}: 11.3/14$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

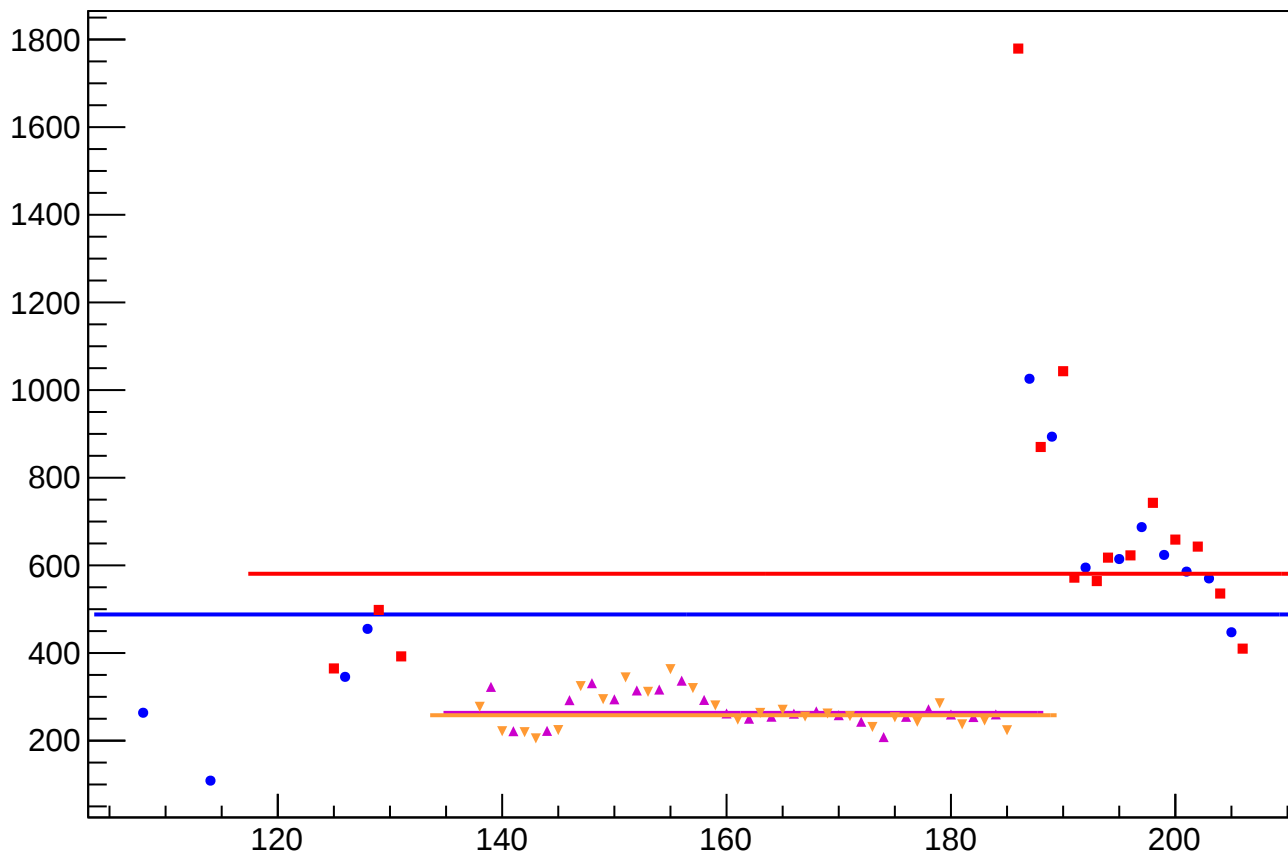
Right: 129.772 ± 148.140 $\chi^2/\text{NDF}: 24.3/27$

In: 6.804 ± 60.849 $\chi^2/\text{NDF}: 38.6/35$

Out: -220.162 ± 58.431 $\chi^2/\text{NDF}: 75.5/39$

All: -111.278 ± 42.146 $\chi^2/\text{NDF}: 121.3/75$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 488.001+/-0.147 χ^2/NDF : 1883887.7/12

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 580.859+/-0.149 χ^2/NDF : 1172552.0/14

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

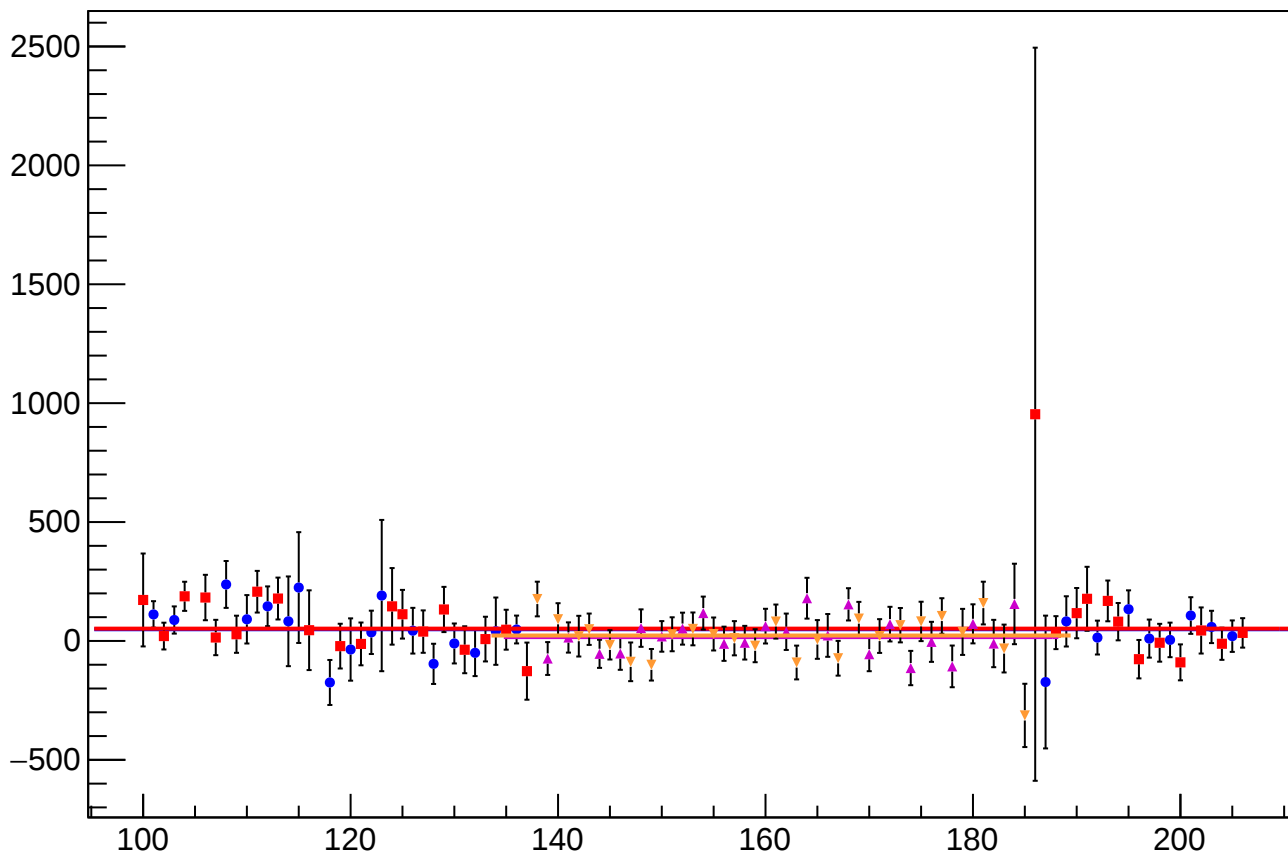
Right: 533.596+/-0.105 χ^2/NDF : 3252832.9/27

In: 282.685+/-0.043 χ^2/NDF : 4608607.2/35

Out: 282.700+/-0.041 χ^2/NDF : 6204495.9/39

All: 282.693+/-0.030 χ^2/NDF : 10813103.1/75

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 49.168 $\pm$ 16.733 χ^2 /NDF: 21.7/25

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 51.775 $\pm$ 15.589 χ^2 /NDF: 30.1/30

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

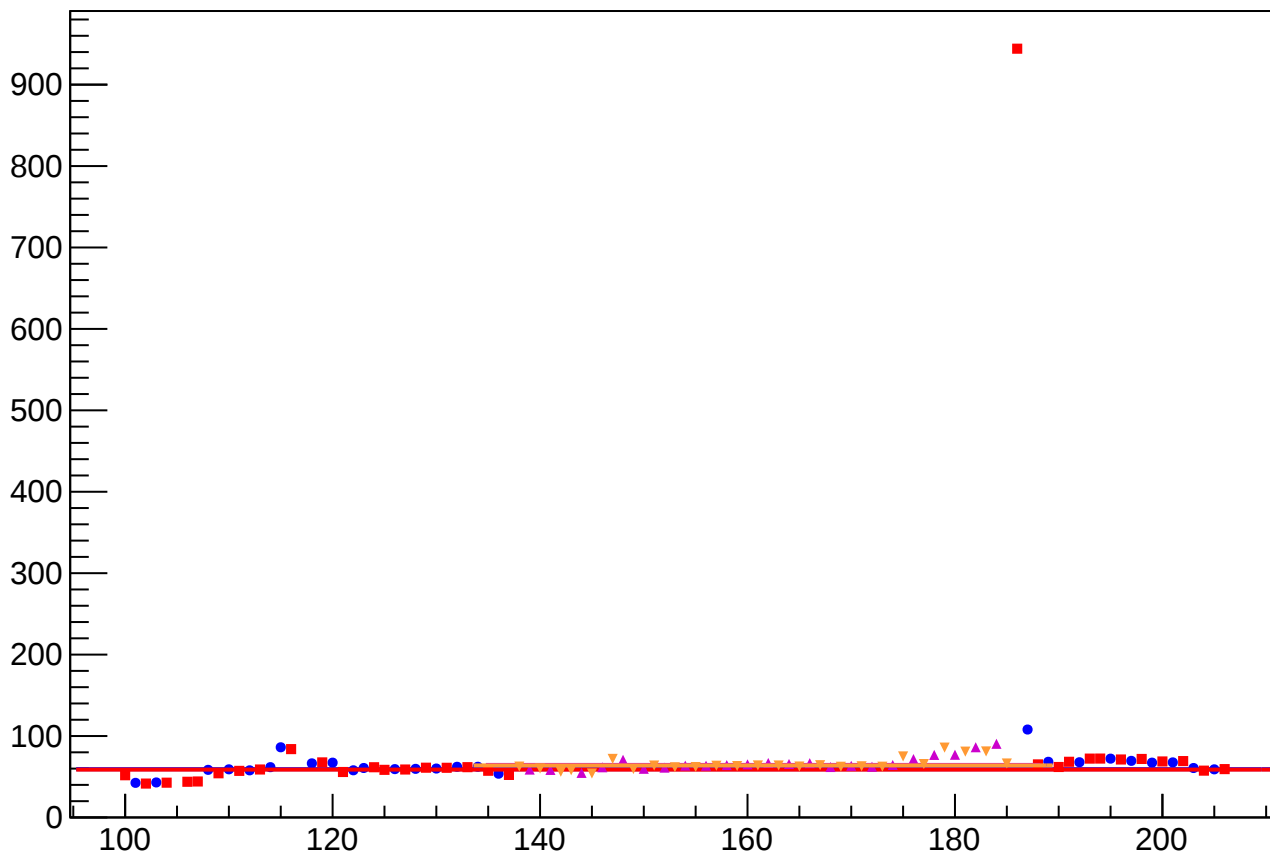
Right: 50.564 $\pm$ 11.406 χ^2 /NDF: 51.8/56

In: 31.456 $\pm$ 11.383 χ^2 /NDF:47.1/48

Out: 36.736 $\pm$ 10.797 χ^2 /NDF:60.8/55

All: 34.236 $\pm$ 7.834 χ^2 /NDF: 108.1/104

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.274 $\pm$ 0.012 χ^2 /NDF: 650879.5/25

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF:395410.4/24

Right Out: 58.769 $\pm$ 0.011 χ^2 /NDF: 1494017.5/30

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

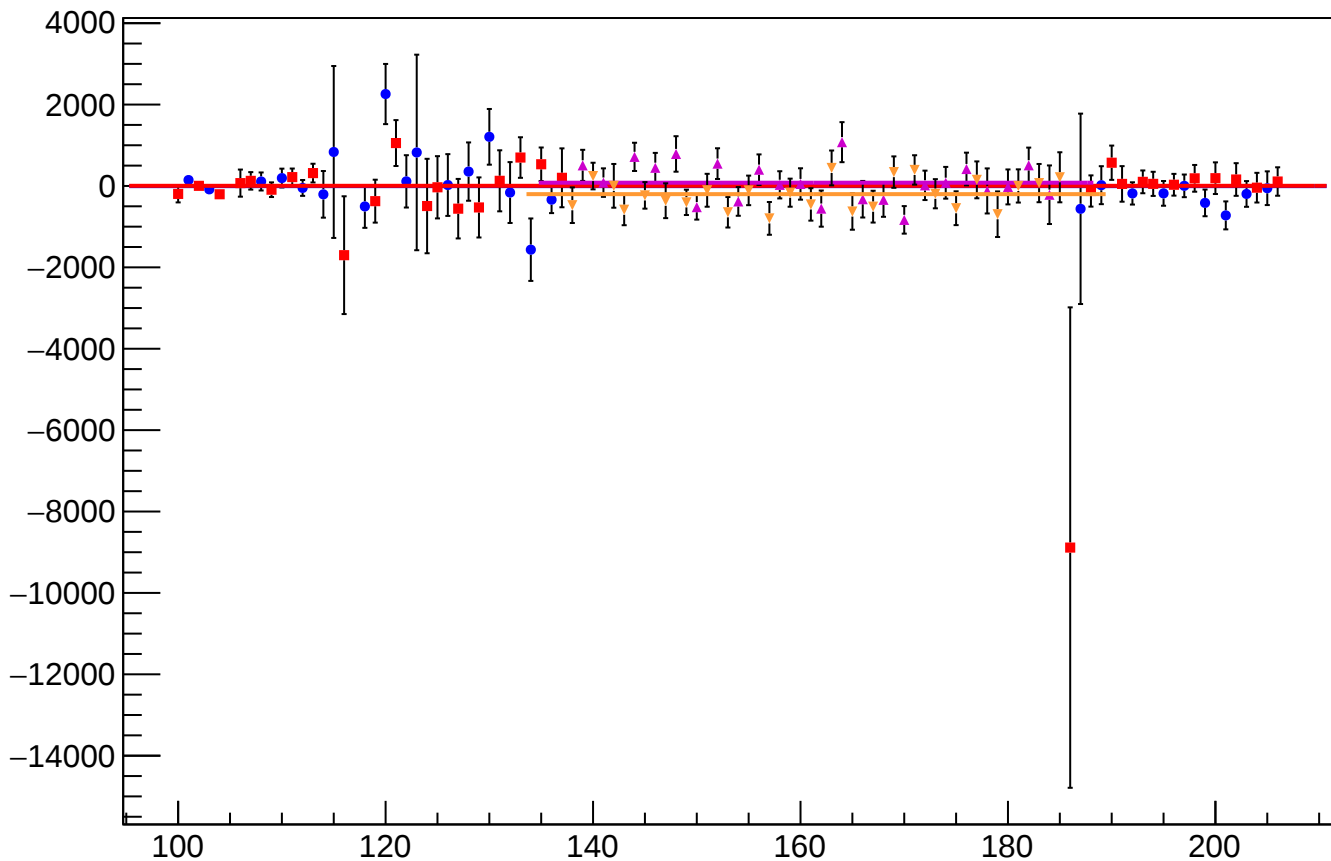
Right: 59.003 $\pm$ 0.008 χ^2 /NDF: 2145873.6/56

In: 62.087 $\pm$ 0.008 χ^2 /NDF:1126628.9/48

Out: 61.449 $\pm$ 0.008 χ^2 /NDF:2003060.5/55

All: 61.751 $\pm$ 0.006 χ^2 /NDF: 3133001.1/104

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: -4.458 ± 47.055 χ^2/NDF : 31.7/25

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 3.802 ± 47.363 χ^2/NDF : 24.2/30

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

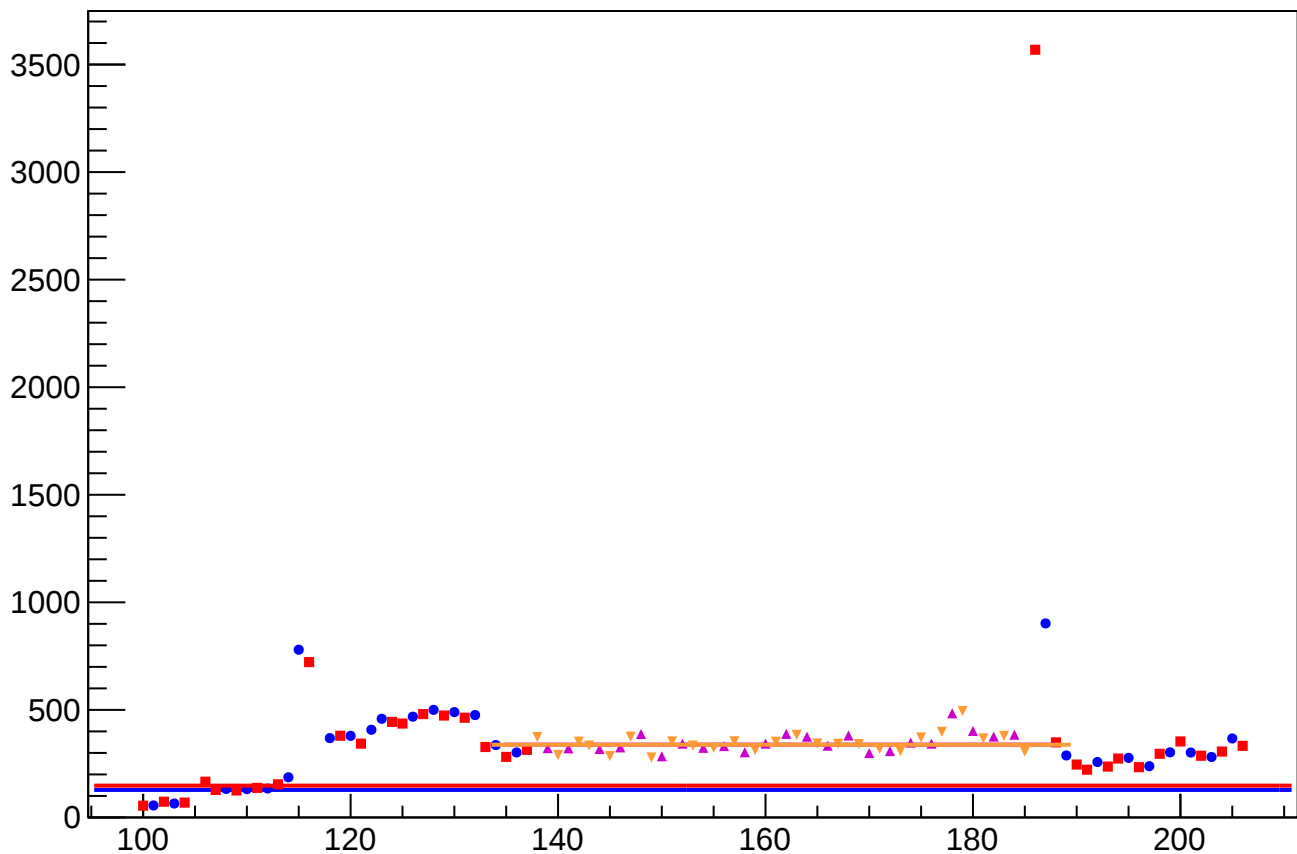
Right: -0.355 ± 33.381 χ^2/NDF : 55.9/56

In: 16.544 ± 40.785 χ^2/NDF : 65.9/48

Out: -49.820 ± 40.696 χ^2/NDF : 48.7/55

All: -16.711 ± 28.808 χ^2/NDF : 116.0/104

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 127.939+/-0.033

χ^2/NDF : 10441485.0/25

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

Right: 137.861+/-0.024 χ^2/NDF : 20812639.3/56

Left Out: 338.130+/-0.056

χ^2/NDF : 498601.7/24

In: 180.325+/-0.029 χ^2/NDF : 20845360.1/48

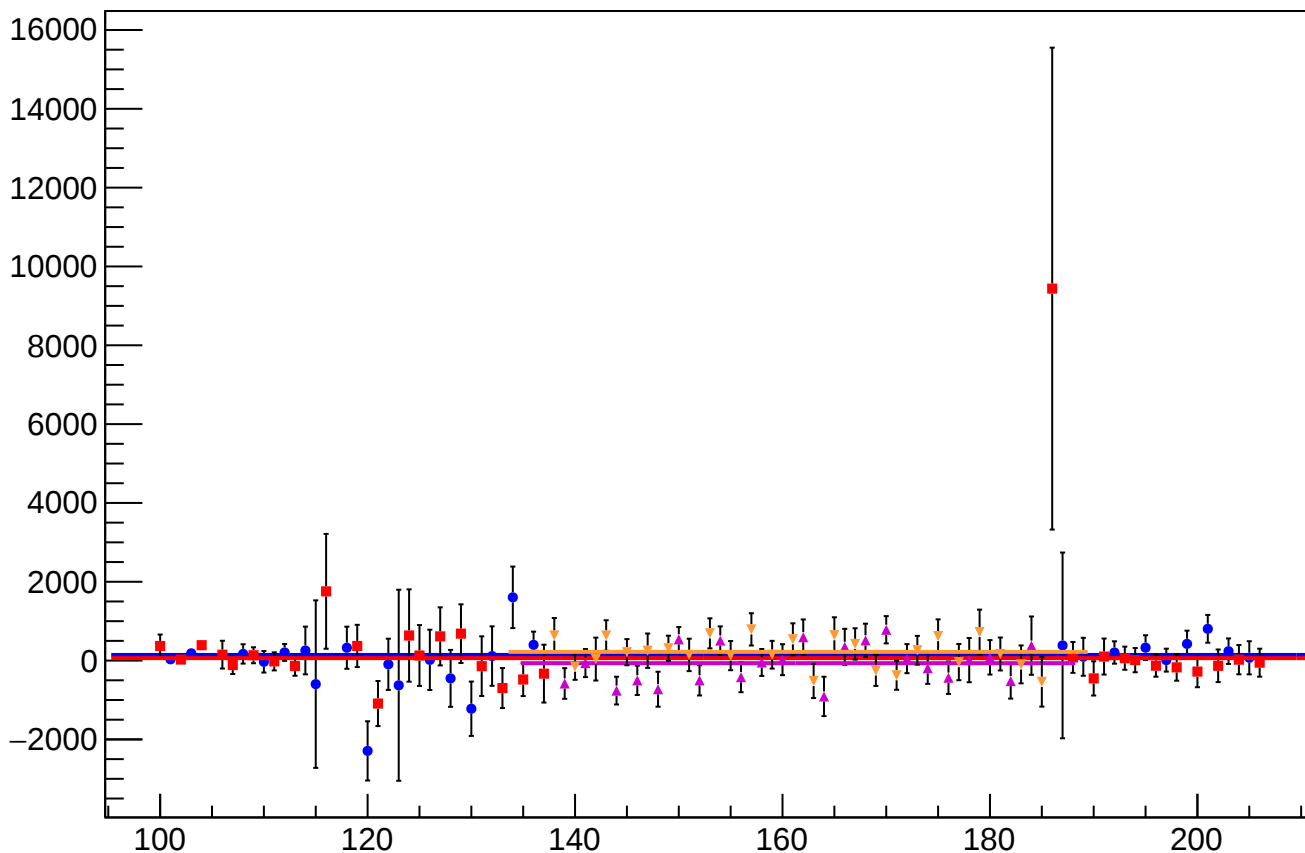
Right Out: 147.914+/-0.033 χ^2/NDF : 10192130.1/30

Out: 197.697+/-0.029 χ^2/NDF : 19133388.8/55

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

All: 189.030+/-0.020 χ^2/NDF : 40160578.1/10

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 142.706 $\pm$ 55.777 χ^2 /NDF: 26.3/25

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 62.373 $\pm$ 52.891 χ^2 /NDF: 27.5/30

Left In: -65.510 $\pm$ 83.319 χ^2 /NDF:34.0/22

Left: 81.798 $\pm$ 58.085 χ^2 /NDF: 59.7/47

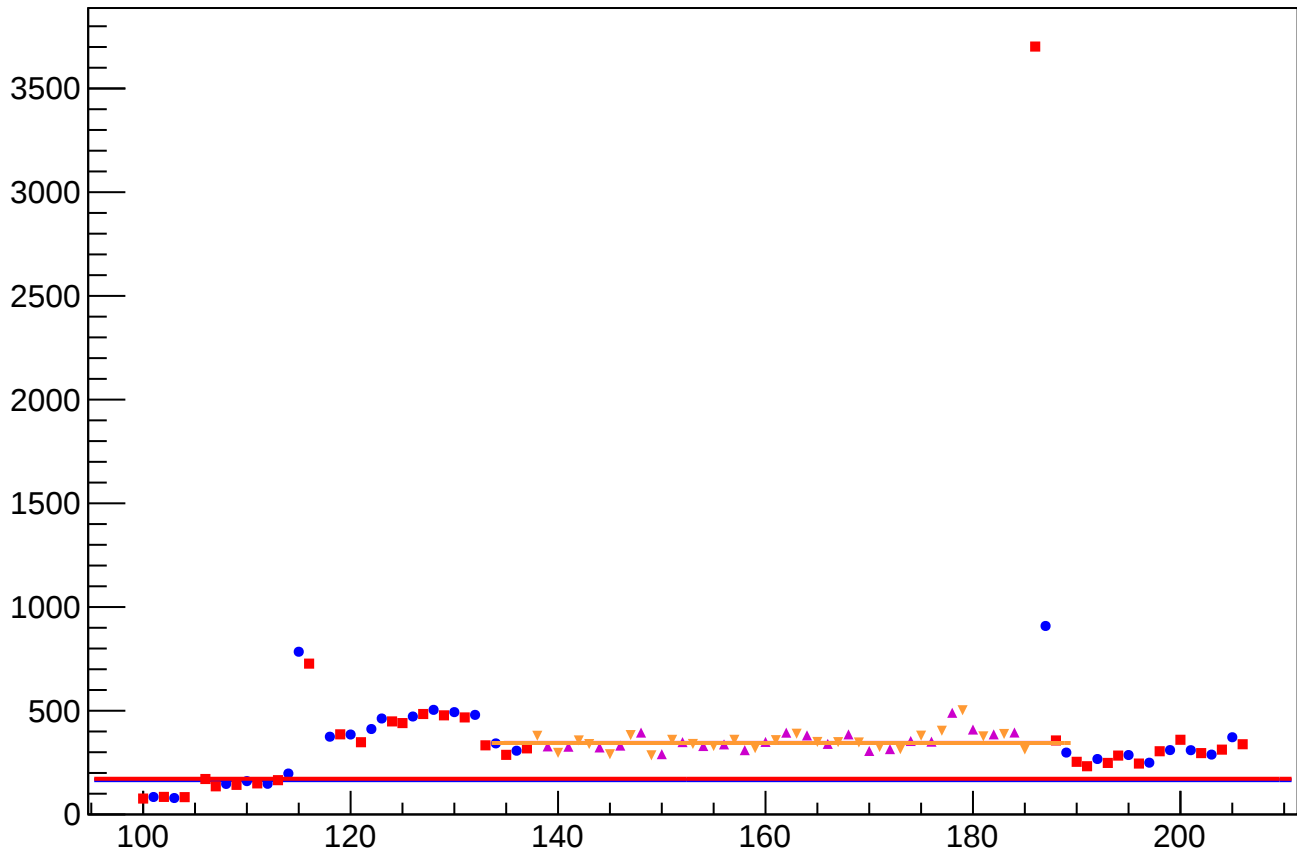
Right: 100.407 $\pm$ 38.379 χ^2 /NDF: 55.0/56

In: 78.270 $\pm$ 46.350 χ^2 /NDF:64.6/48

Out: 109.800 $\pm$ 44.289 χ^2 /NDF:49.9/55

All: 94.752 $\pm$ 32.021 χ^2 /NDF: 114.8/104

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 165.287 $\pm$ 0.039 χ^2 /NDF: 7964521.7/25

Left Out: 344.506 $\pm$ 0.057 χ^2 /NDF: 488323.4/24

Right Out: 172.101 $\pm$ 0.037 χ^2 /NDF: 8569613.0/30

Left In: 345.039 $\pm$ 0.059 χ^2 /NDF: 427381.3/22

Left: 344.765 $\pm$ 0.041 χ^2 /NDF: 915746.8/47

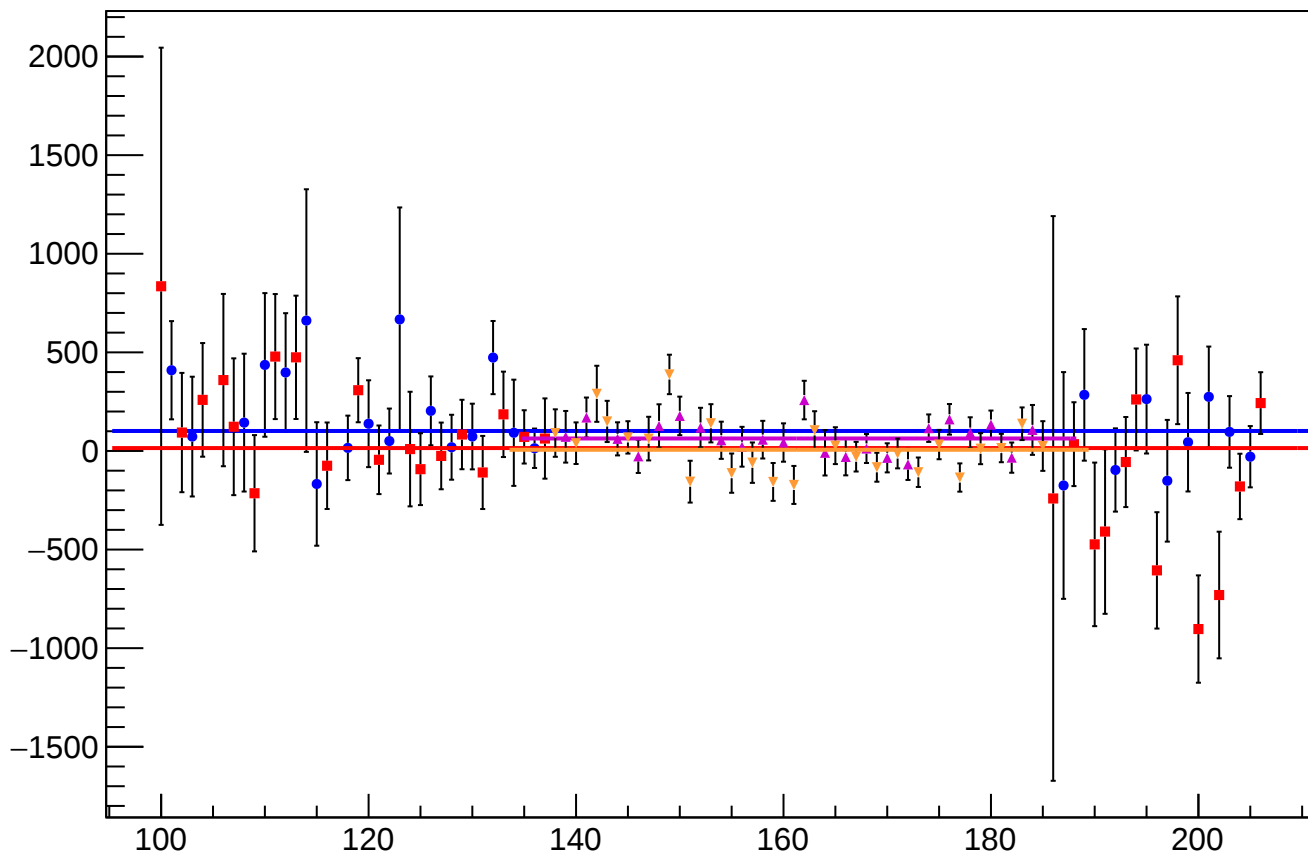
Right: 168.875 $\pm$ 0.027 χ^2 /NDF: 16549854.6/56

In: 220.914 $\pm$ 0.033 χ^2 /NDF: 14819933.4/48

Out: 223.620 $\pm$ 0.031 χ^2 /NDF: 15408091.1/55

All: 222.329 $\pm$ 0.023 χ^2 /NDF: 30231588.6/100

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 101.339 $\pm$ 41.726 χ^2 /NDF: 15.3/25

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 14.676 $\pm$ 41.209 χ^2 /NDF: 42.3/30

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

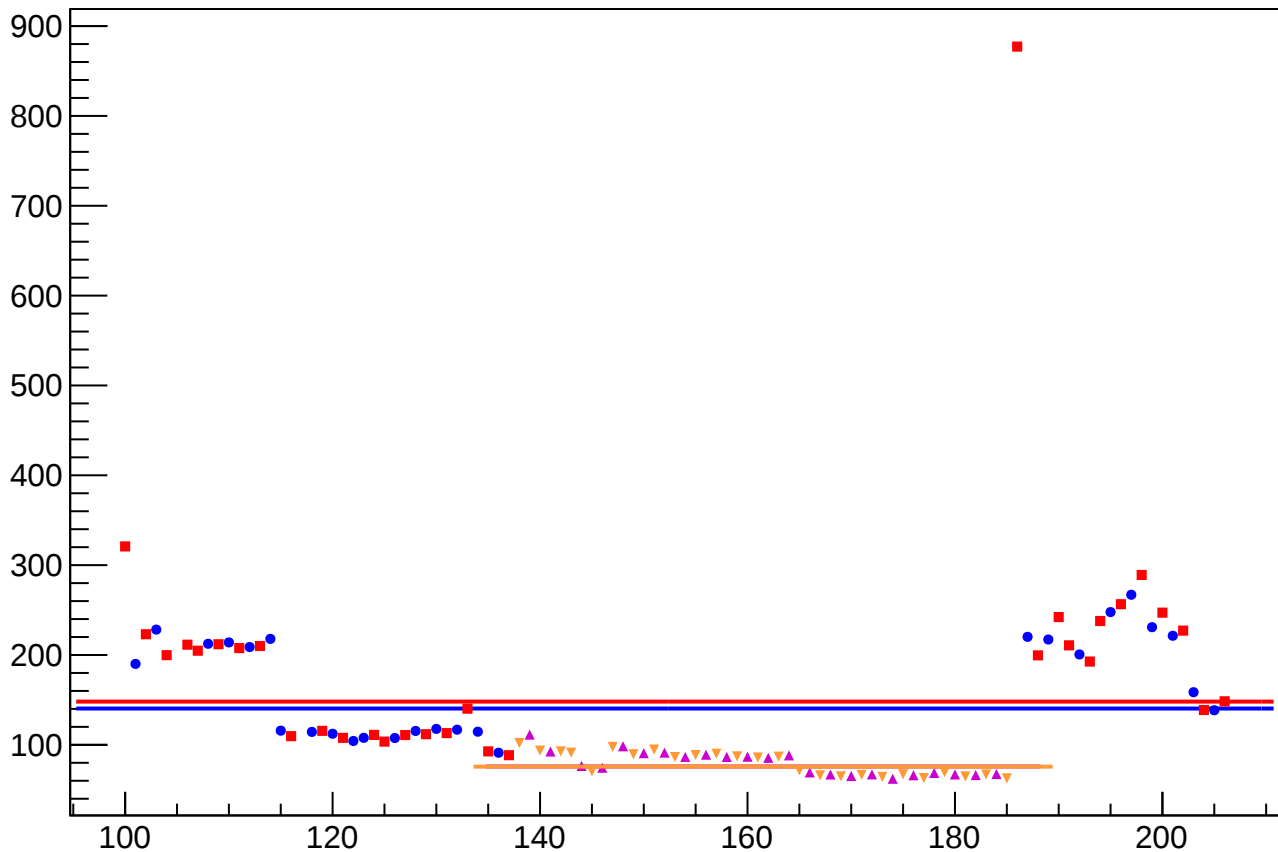
Right: 57.468 $\pm$ 29.320 χ^2 /NDF: 59.8/56

In: 69.501 $\pm$ 16.871 χ^2 /NDF:35.8/48

Out: 7.395 $\pm$ 16.426 χ^2 /NDF:88.3/55

All: 37.617 $\pm$ 11.769 χ^2 /NDF: 131.1/104

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.409 $\pm$ 0.030 χ^2 /NDF: 2864344.5/25

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF: 937821.8/24

Right Out: 148.123 $\pm$ 0.029 χ^2 /NDF: 3874063.3/30

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

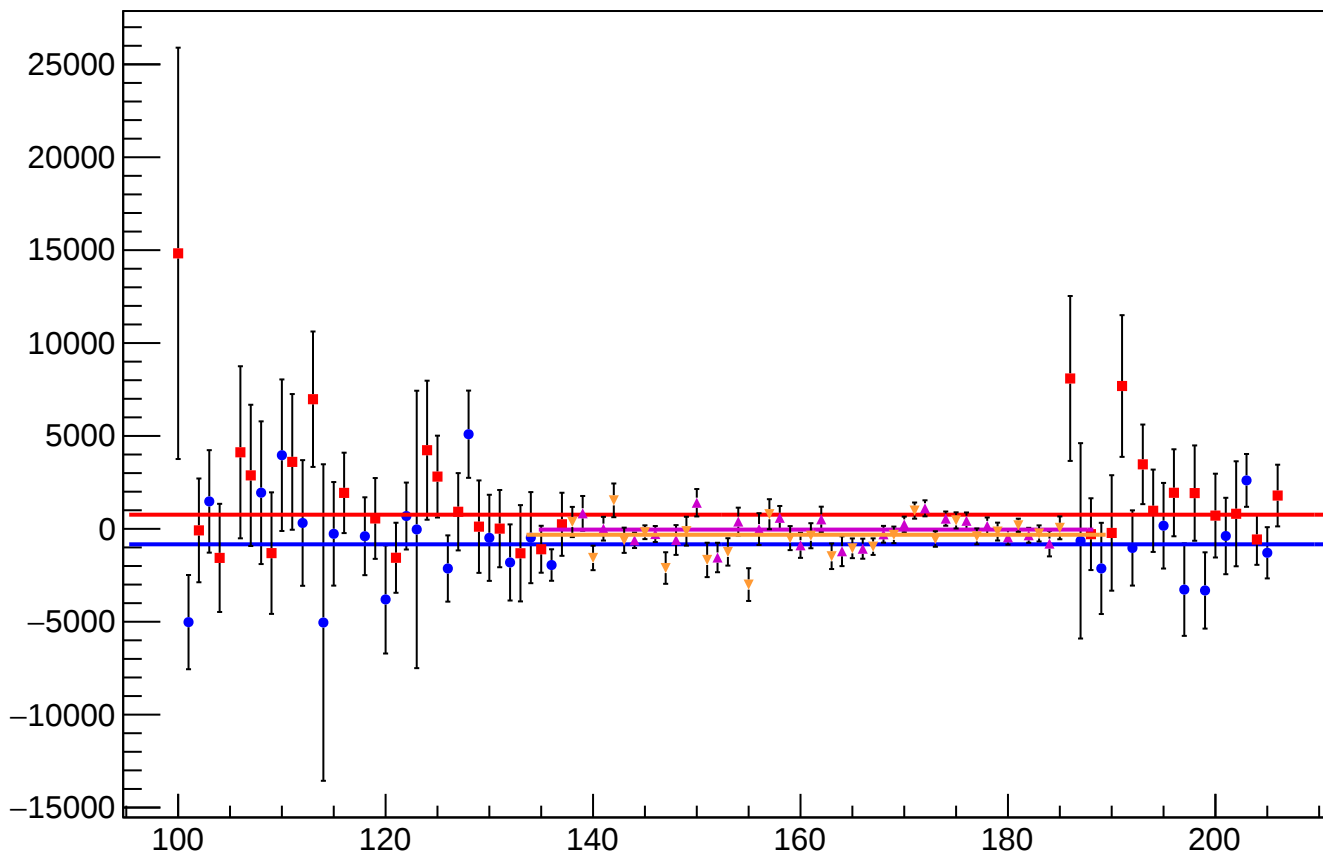
Right: 144.314 $\pm$ 0.021 χ^2 /NDF: 6773008.7/56

In: 86.455 $\pm$ 0.012 χ^2 /NDF: 7693392.9/48

Out: 87.242 $\pm$ 0.012 χ^2 /NDF: 10001518.5/55

All: 86.859 $\pm$ 0.008 χ^2 /NDF: 17697148.8/104

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -832.635 $\pm$ 405.422 χ^2 /NDF: 25.4/25

Left Out: -318.064 $\pm$ 108.014 χ^2 /NDF:50.0/24

Right Out: 761.697 $\pm$ 414.760 χ^2 /NDF: 23.6/30

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

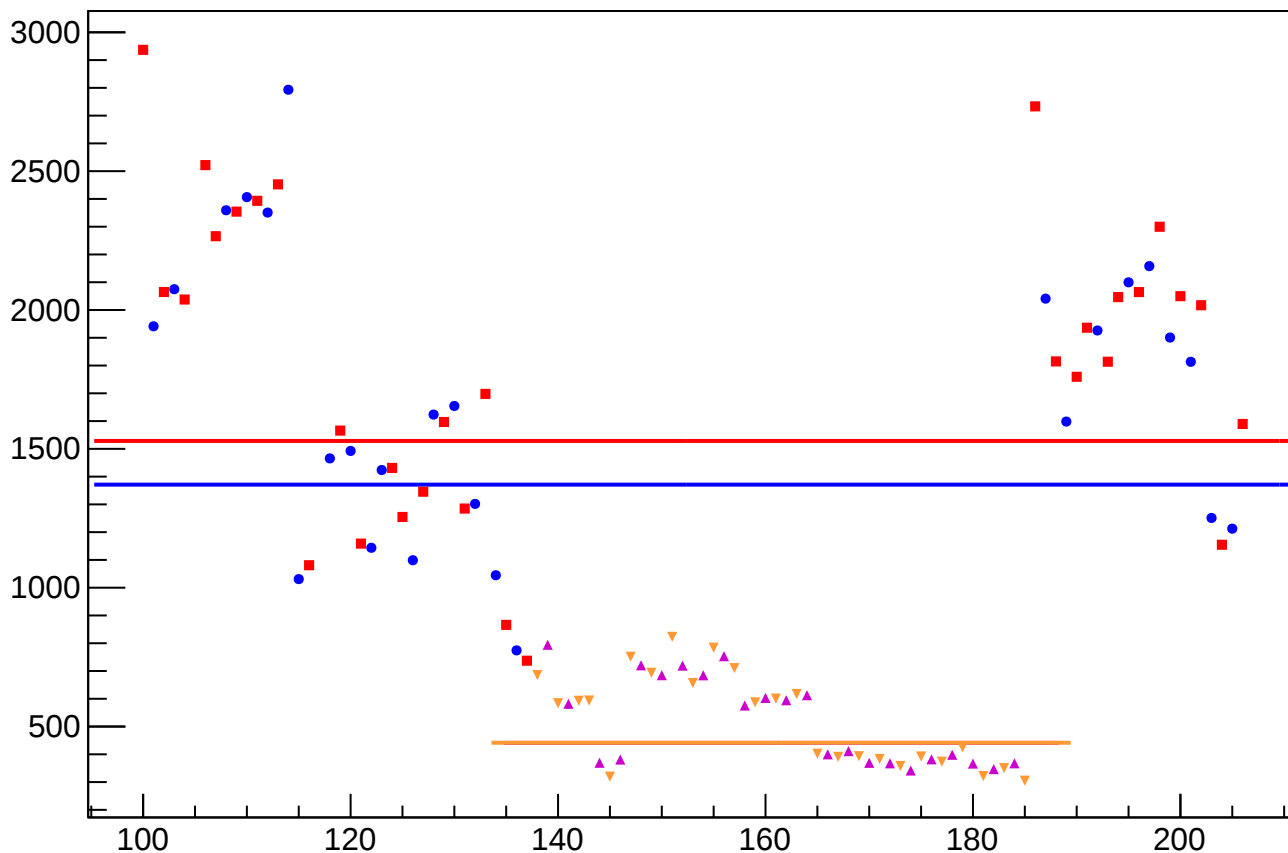
Right: -53.618 $\pm$ 289.921 χ^2 /NDF: 56.5/56

In: -95.022 $\pm$ 106.389 χ^2 /NDF:63.6/48

Out: -249.485 $\pm$ 104.527 χ^2 /NDF:79.9/55

All: -173.617 $\pm$ 74.561 χ^2 /NDF: 144.7/104

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1371.133+/-0.287 χ^2/NDF : 2779285.5/25

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1528.473+/-0.293 χ^2/NDF : 2910757.9/30

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

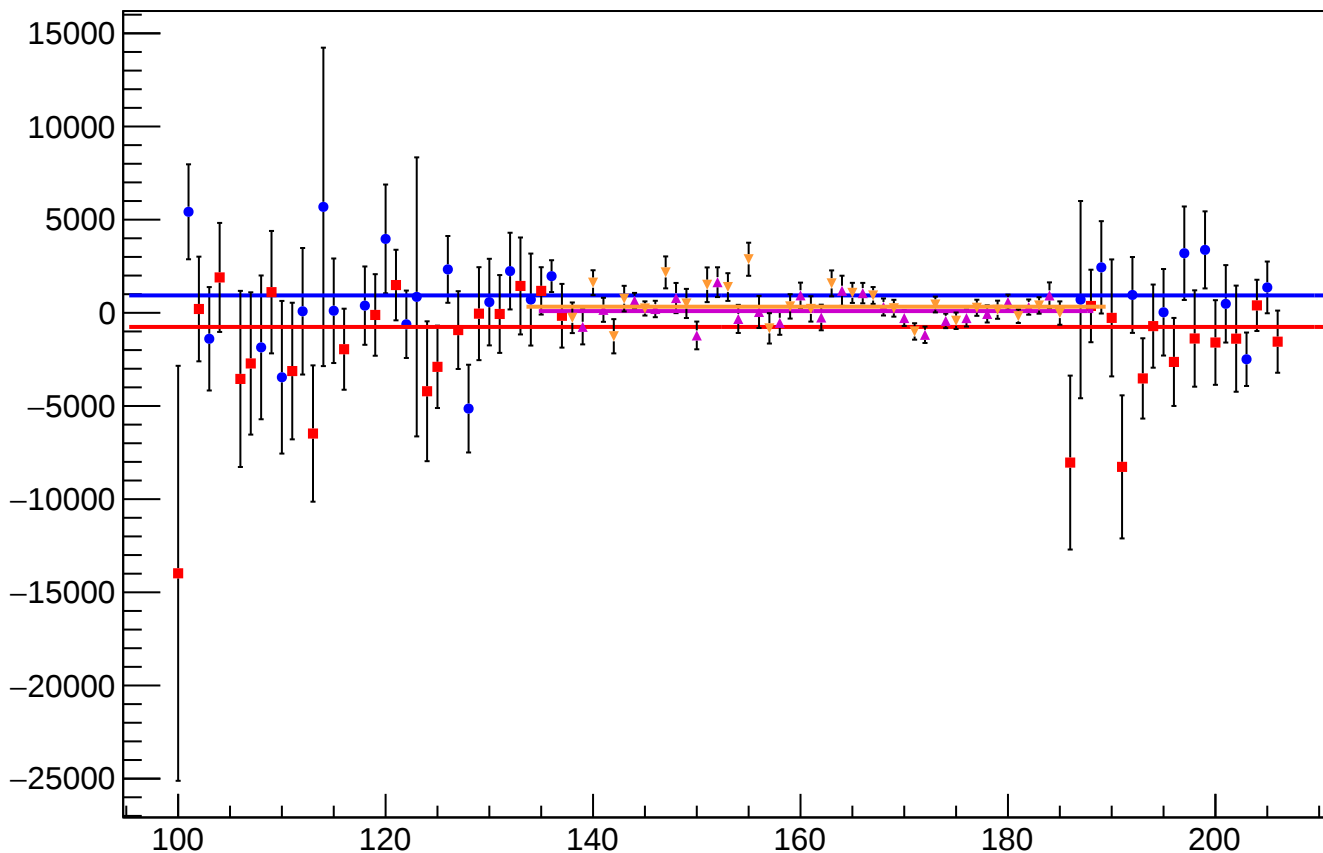
Right: 1448.011+/-0.205 χ^2/NDF : 5837228.1/56

In: 505.058+/-0.075 χ^2/NDF : 15178246.3/48

Out: 510.710+/-0.074 χ^2/NDF : 18939530.7/55

All: 507.934+/-0.053 χ^2/NDF : 34120649.1/10

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 934.569 $\pm$ 408.076 χ^2 /NDF: 25.6/25

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF:47.7/24

Right Out: -757.529 $\pm$ 417.405 χ^2 /NDF: 23.2/30

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

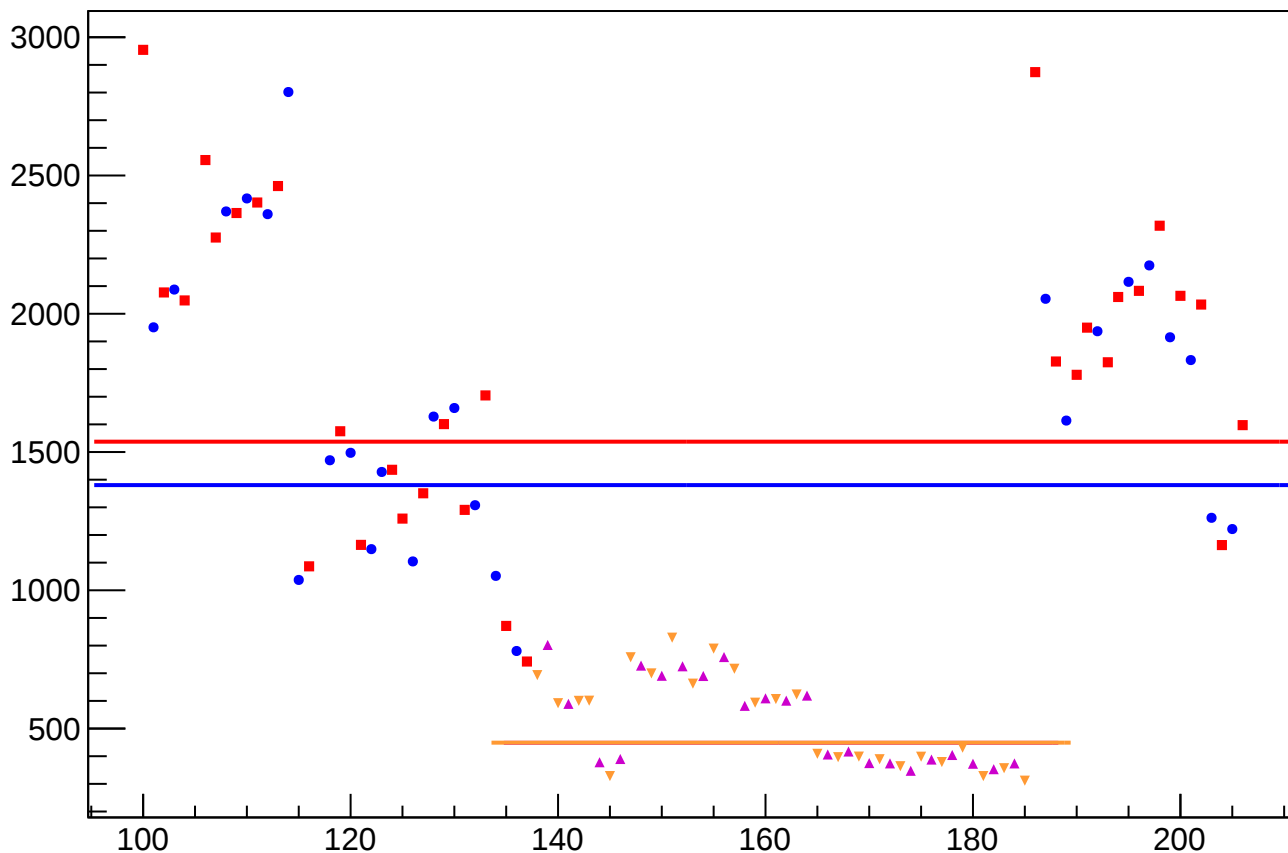
Right: 107.640 $\pm$ 291.796 χ^2 /NDF: 57.1/56

In: 152.202 $\pm$ 107.970 χ^2 /NDF:62.9/48

Out: 258.463 $\pm$ 106.068 χ^2 /NDF:77.2/55

All: 206.277 $\pm$ 75.665 χ^2 /NDF: 140.6/104

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1380.402+/-0.289 χ^2/NDF : 2771110.6/25

Left Out: 449.016+/-0.078 χ^2/NDF : 3090476.2/24

Right Out: 1537.452+/-0.295 χ^2/NDF : 2930493.4/30

Left In: 448.307+/-0.079 χ^2/NDF : 2537376.0/22

Left: 448.669+/-0.055 χ^2/NDF : 5627893.2/47

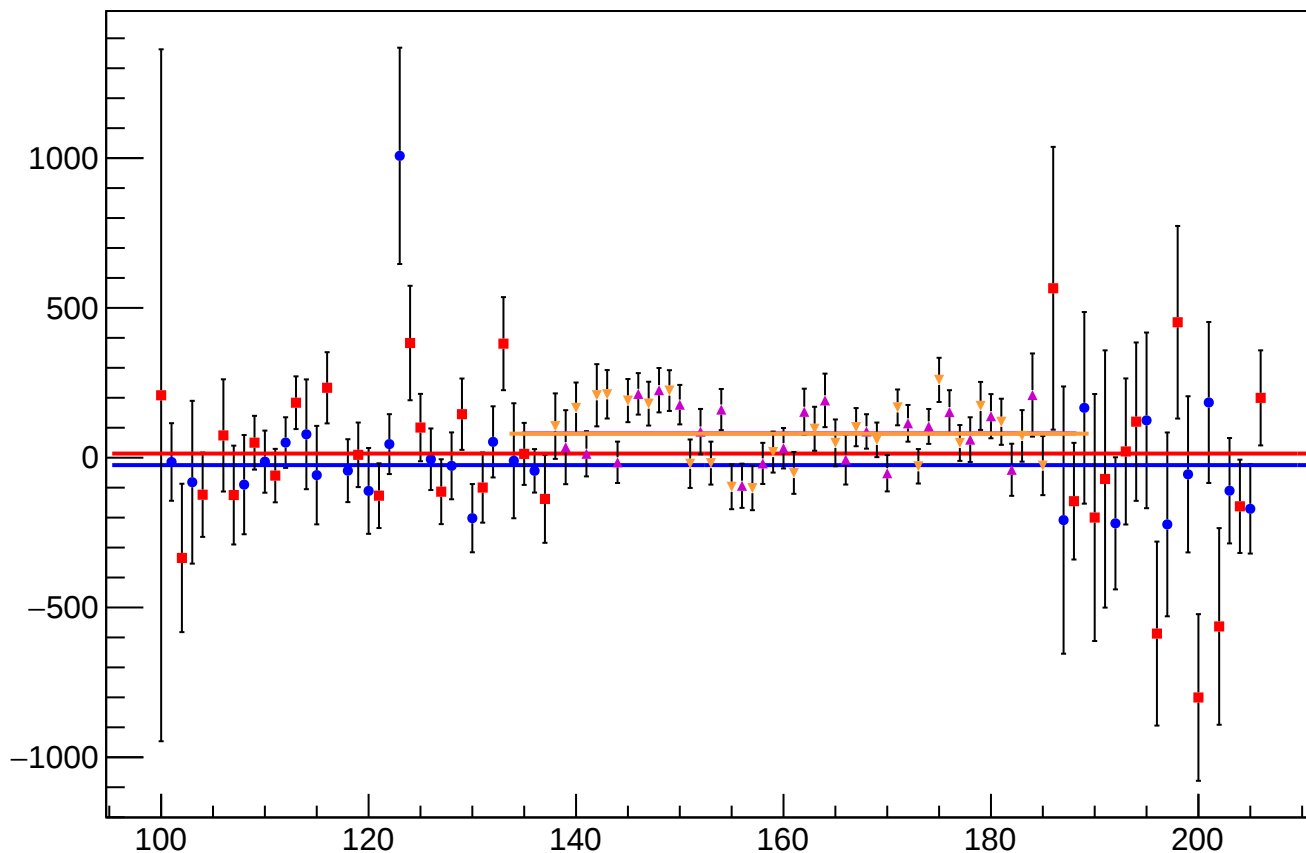
Right: 1457.153+/-0.206 χ^2/NDF : 5846370.1/56

In: 513.557+/-0.076 χ^2/NDF : 15012457.3/48

Out: 519.301+/-0.075 χ^2/NDF : 18742218.9/55

All: 516.480+/-0.054 χ^2/NDF : 33757556.1/10

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -24.782 ± 27.115 $\chi^2/\text{NDF}: 17.2/25$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 13.788 ± 26.102 $\chi^2/\text{NDF}: 50.5/30$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

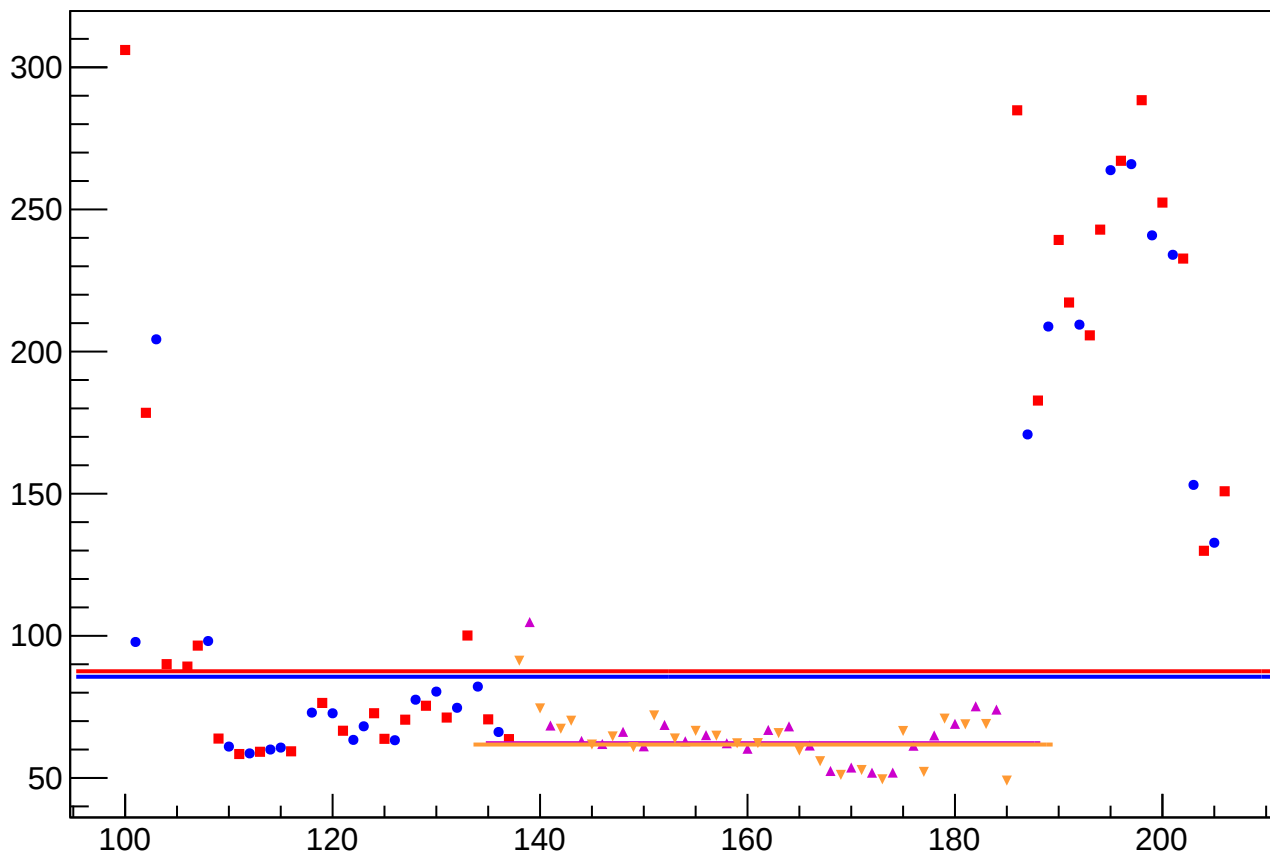
Right: -4.763 ± 18.805 $\chi^2/\text{NDF}: 68.7/56$

In: 56.066 ± 13.196 $\chi^2/\text{NDF}: 64.1/48$

Out: 64.364 ± 12.737 $\chi^2/\text{NDF}: 103.9/55$

All: 60.362 ± 9.164 $\chi^2/\text{NDF}: 168.3/104$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 85.609 $\pm$ 0.019 χ^2/NDF : 5475644.0/25

Left Out: 61.761 $\pm$ 0.010 χ^2/NDF : 645535.0/24

Right Out: 87.536 $\pm$ 0.018 χ^2/NDF : 6914230.5/30

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

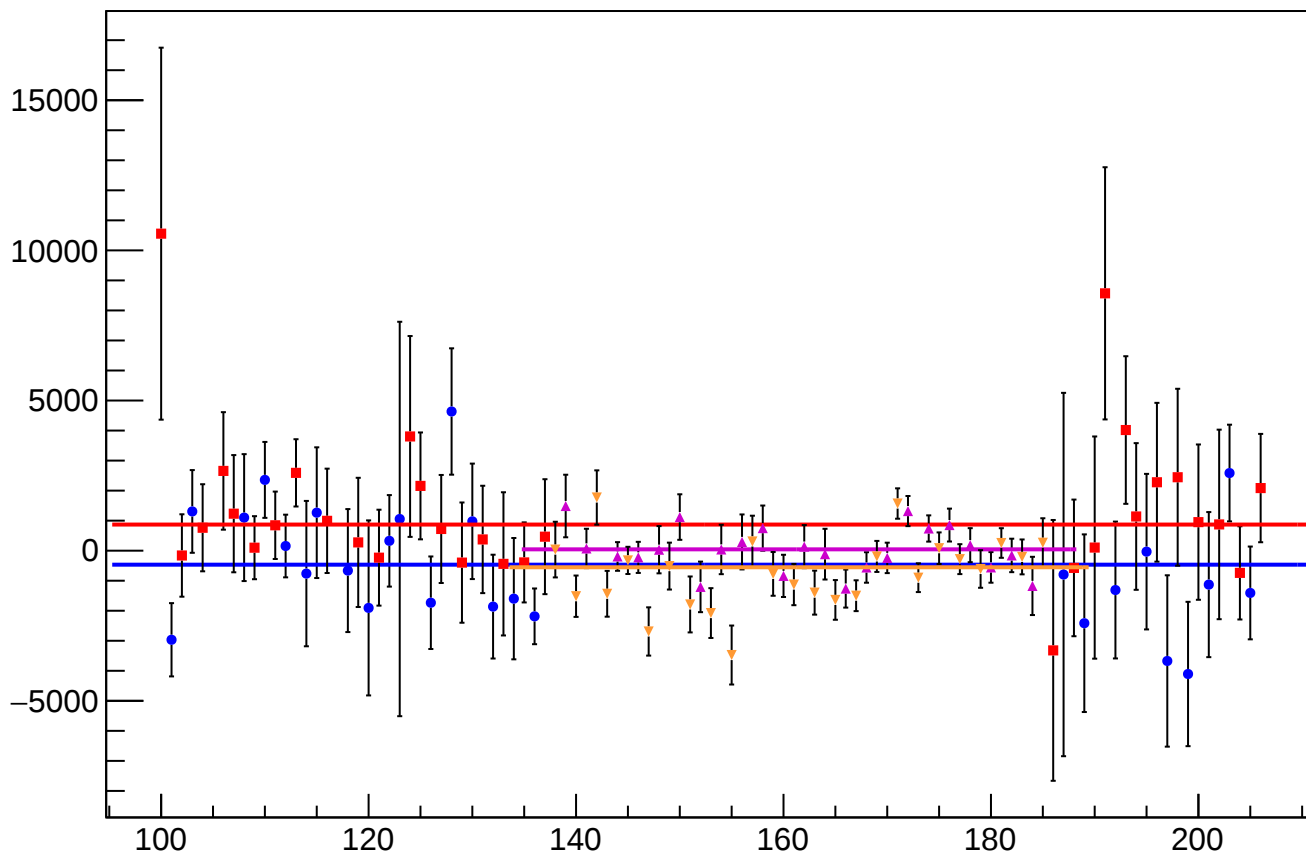
Right: 86.609 $\pm$ 0.013 χ^2/NDF : 12395117.3/56

In: 67.782 $\pm$ 0.009 χ^2/NDF : 7199492.6/48

Out: 67.899 $\pm$ 0.009 χ^2/NDF : 9045632.7/55

All: 67.843 $\pm$ 0.006 χ^2/NDF : 16245205.5/104

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -466.166 ± 341.530 $\chi^2/\text{NDF}: 32.7/25$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 869.822 ± 329.278 $\chi^2/\text{NDF}: 18.9/30$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

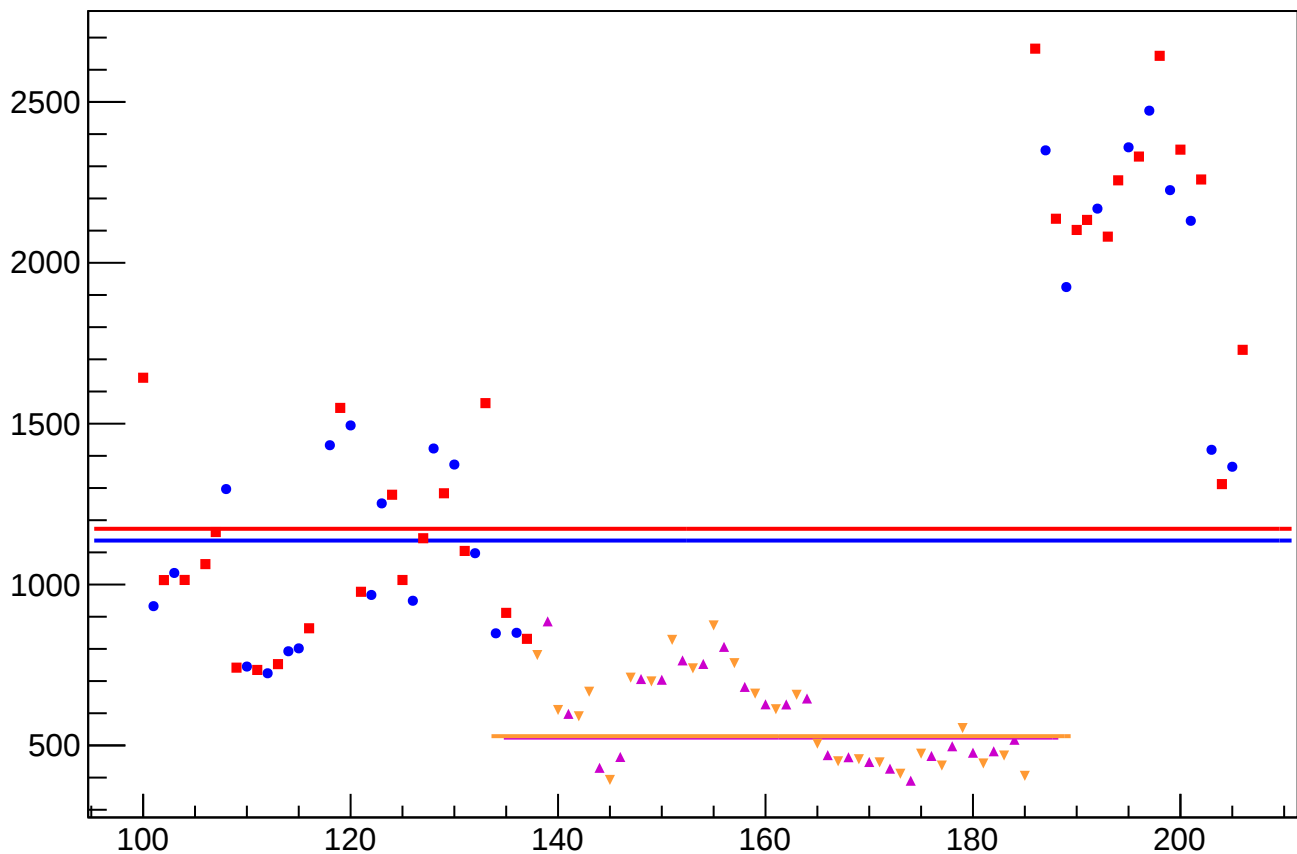
Right: 226.220 ± 237.048 $\chi^2/\text{NDF}: 59.5/56$

In: -19.272 ± 120.756 $\chi^2/\text{NDF}: 64.2/48$

Out: -368.374 ± 118.477 $\chi^2/\text{NDF}: 100.4/55$

All: -197.149 ± 84.570 $\chi^2/\text{NDF}: 168.9/104$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1136.740+/-0.241 χ^2/NDF : 3467777.3/25

Left Out: 528.736+/-0.090 χ^2/NDF : 1983697.7/24

Right Out: 1173.294+/-0.233 χ^2/NDF : 4602221.2/30

Left In: 524.268+/-0.091 χ^2/NDF : 1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

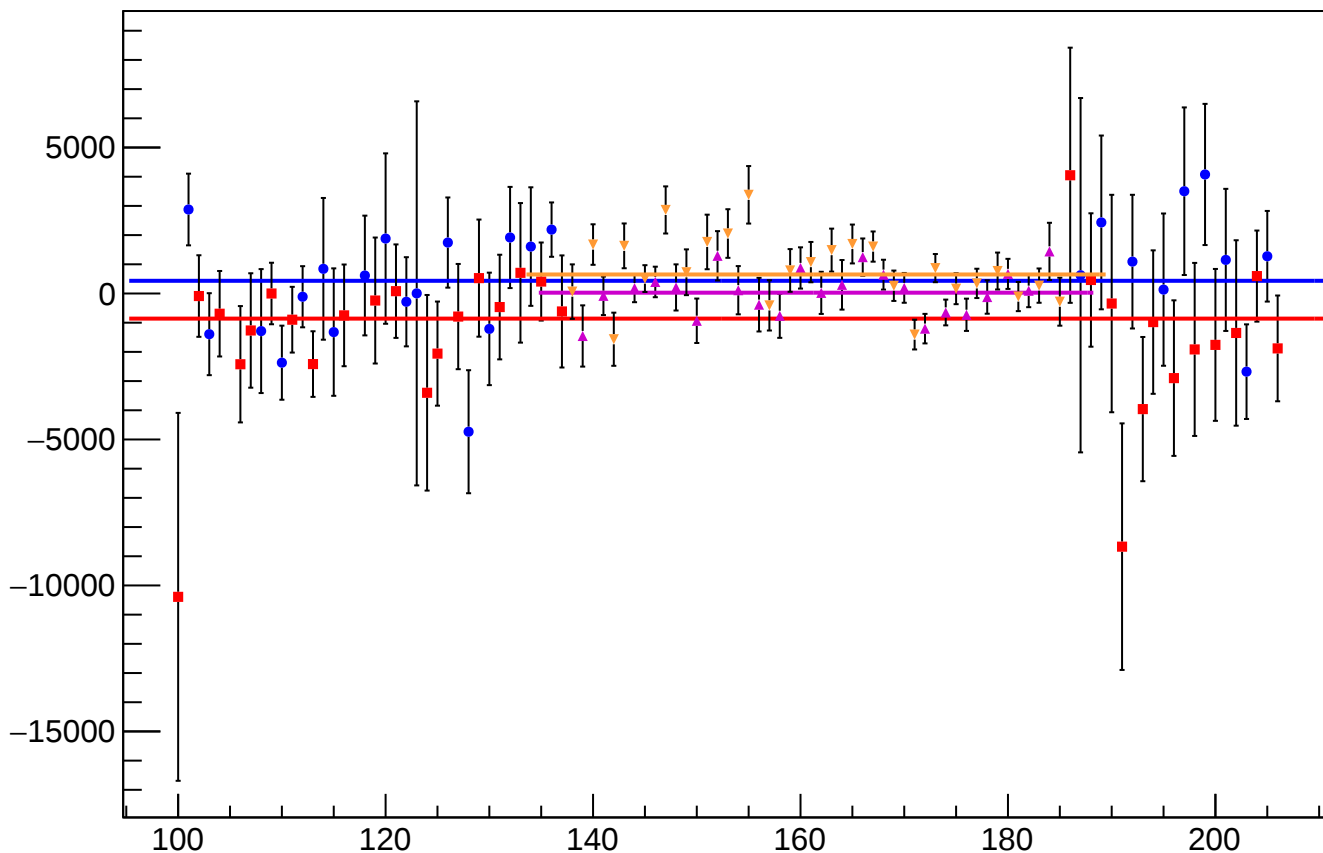
Right: 1155.684+/-0.168 χ^2/NDF : 8081871.9/56

In: 600.836+/-0.085 χ^2/NDF : 10811934.8/48

Out: 612.181+/-0.084 χ^2/NDF : 13257300.5/55

All: 606.617+/-0.060 χ^2/NDF : 24078230.3/10

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 434.750 $\pm$ 343.173 χ^2/NDF : 32.7/25

Left Out: 651.560 $\pm$ 127.961 χ^2/NDF : 61.1/24

Right Out: -860.229 $\pm$ 330.970 χ^2/NDF : 17.8/30

Left In: 27.483 $\pm$ 130.127 χ^2/NDF : 28.5/22

Left: 344.758 $\pm$ 91.238 χ^2/NDF : 101.2/47

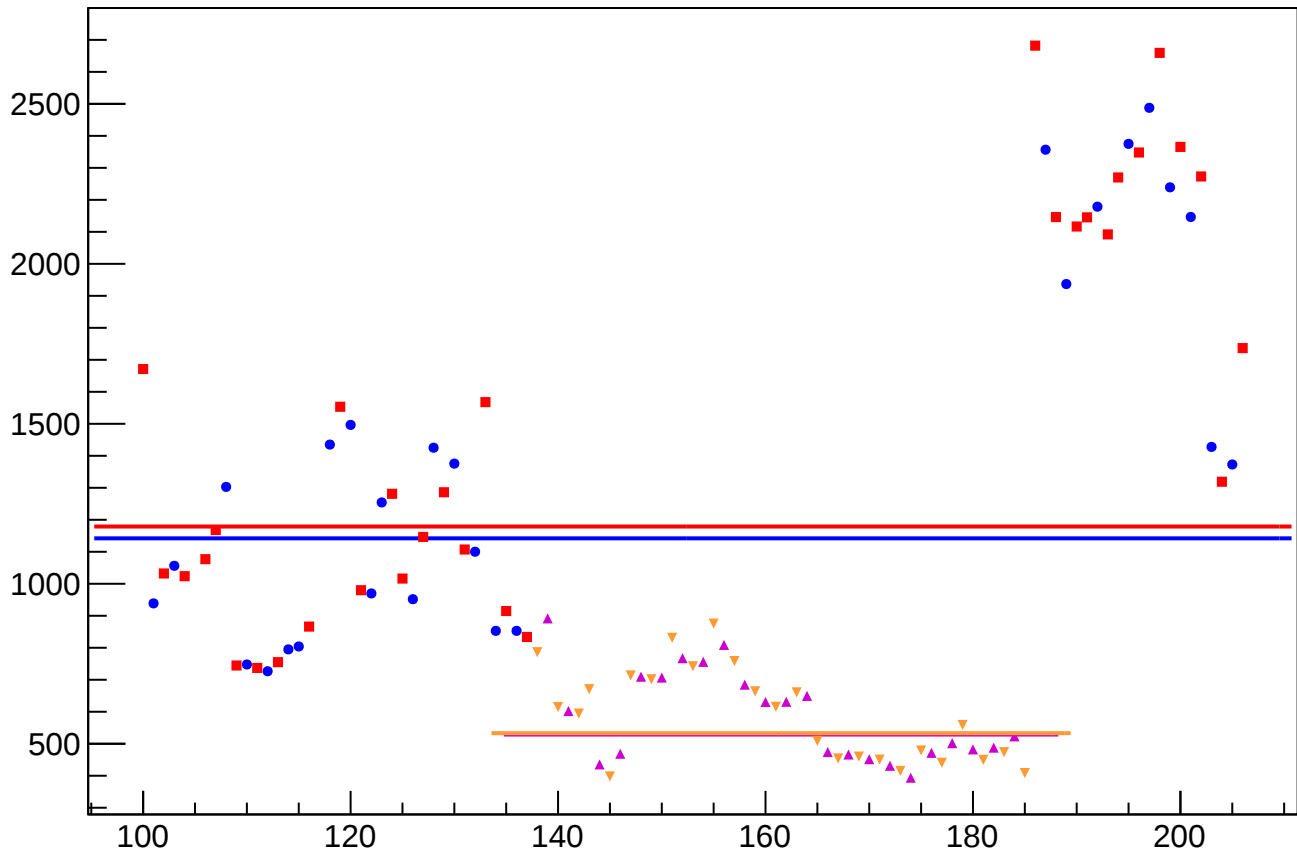
Right: -236.171 $\pm$ 238.228 χ^2/NDF : 58.0/56

In: 78.680 $\pm$ 121.673 χ^2/NDF : 62.4/48

Out: 454.967 $\pm$ 119.351 χ^2/NDF : 97.1/55

All: 270.448 $\pm$ 85.203 χ^2/NDF : 164.4/104

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1142.012 $\pm$ 0.243 χ^2 /NDF: 3475958.6/25

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF: 1951536.4/24

Right Out: 1178.926 $\pm$ 0.234 χ^2 /NDF: 4612009.2/30

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

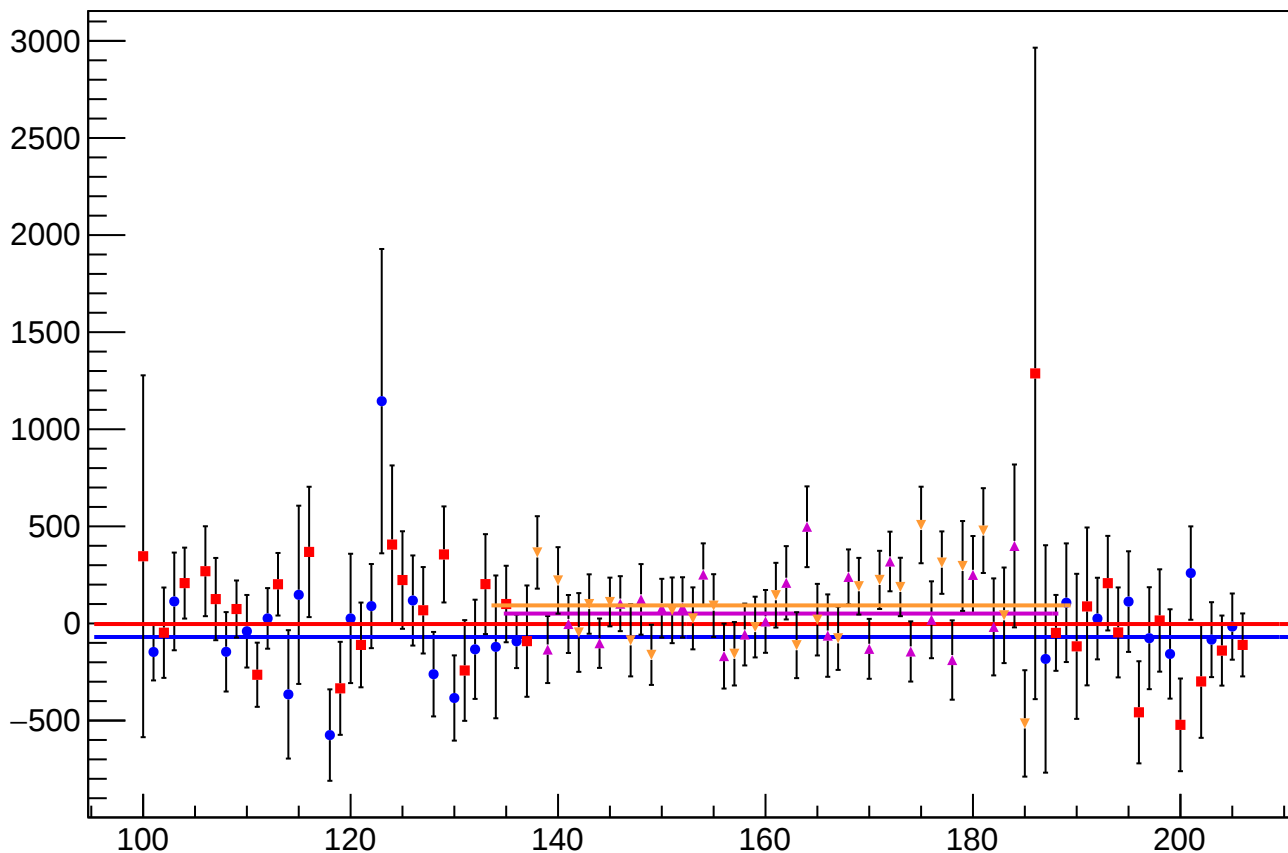
Right: 1161.137 $\pm$ 0.168 χ^2 /NDF: 8099956.9/56

In: 605.793 $\pm$ 0.086 χ^2 /NDF: 10749587.9/48

Out: 617.049 $\pm$ 0.084 χ^2 /NDF: 13189294.0/55

All: 611.529 $\pm$ 0.060 χ^2 /NDF: 23947603.8/10

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -69.820 ± 43.901 $\chi^2/\text{NDF}: 16.8/25$

Left Out: 92.994 ± 34.054 $\chi^2/\text{NDF}: 29.4/24$

Right Out: -3.005 ± 41.242 $\chi^2/\text{NDF}: 28.3/30$

Left In: 50.896 ± 35.280 $\chi^2/\text{NDF}: 23.5/22$

Left: 72.689 ± 24.502 $\chi^2/\text{NDF}: 53.6/47$

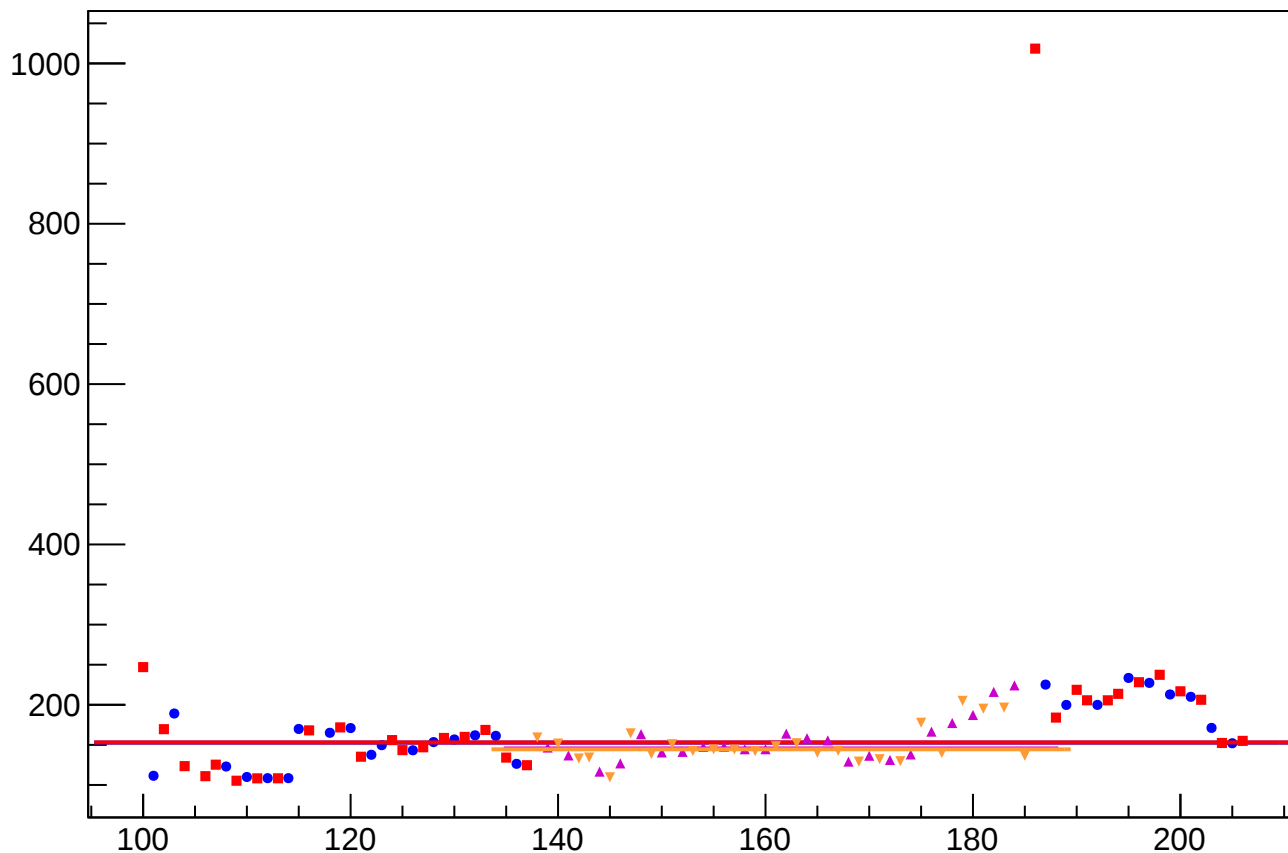
Right: -34.327 ± 30.059 $\chi^2/\text{NDF}: 46.3/56$

In: 3.528 ± 27.500 $\chi^2/\text{NDF}: 44.8/48$

Out: 54.076 ± 26.259 $\chi^2/\text{NDF}: 60.9/55$

All: 29.969 ± 18.992 $\chi^2/\text{NDF}: 107.5/104$

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 152.824 $\pm$ 0.031 χ^2 /NDF: 1451925.5/25

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 153.056 $\pm$ 0.029 χ^2 /NDF: 2263971.0/30

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

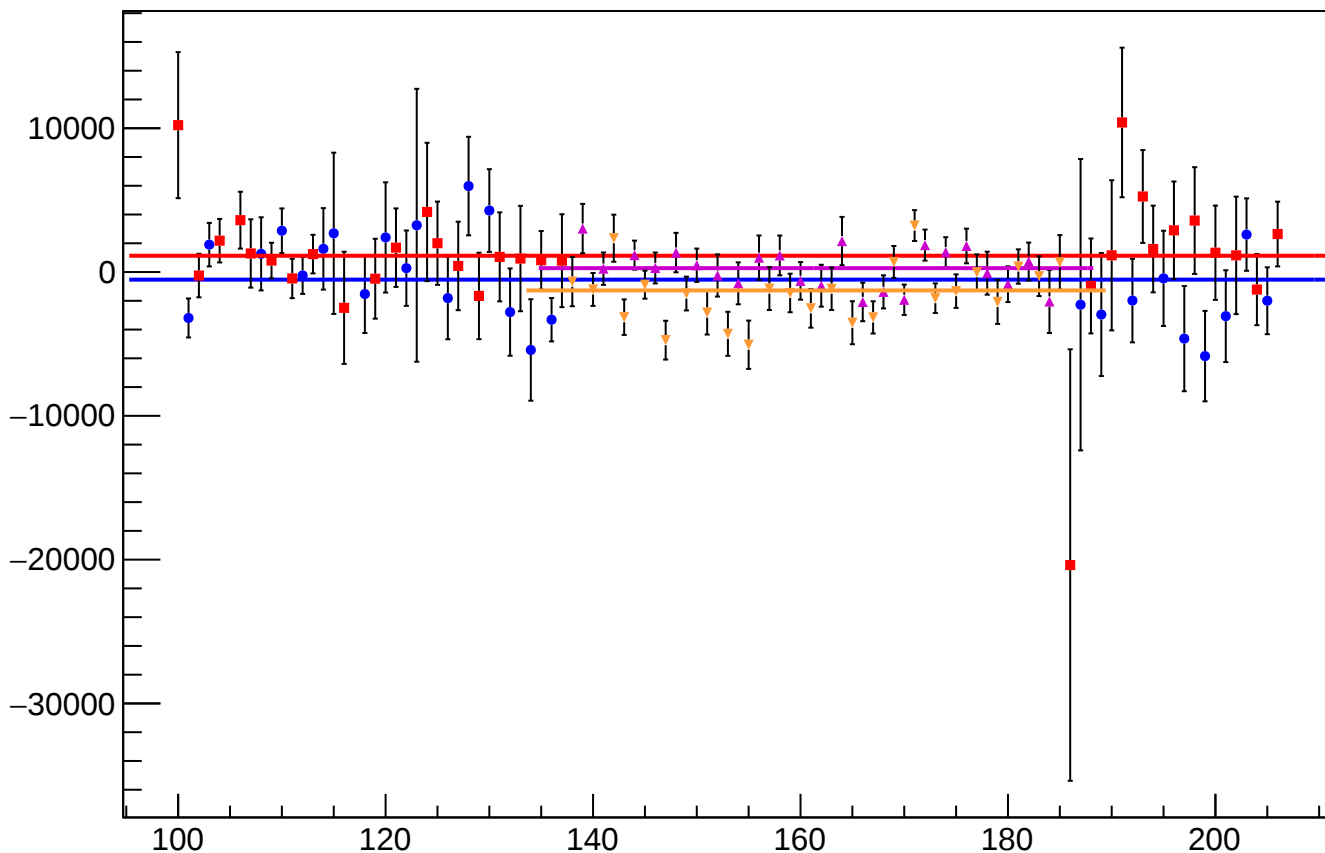
Right: 152.947 $\pm$ 0.021 χ^2 /NDF: 3715926.0/56

In: 148.395 $\pm$ 0.019 χ^2 /NDF: 2128959.8/48

Out: 147.954 $\pm$ 0.019 χ^2 /NDF: 2985938.6/55

All: 148.164 $\pm$ 0.013 χ^2 /NDF: 5115167.7/104

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -527.982 ± 470.360 $\chi^2/\text{NDF}: 33.5/25$

Left Out: -1279.328 ± 259.299 $\chi^2/\text{NDF}: 55.9/24$

Right Out: 1132.512 ± 431.919 $\chi^2/\text{NDF}: 19.5/30$

Left In: 269.952 ± 266.245 $\chi^2/\text{NDF}: 24.3/22$

Left: -525.161 ± 185.759 $\chi^2/\text{NDF}: 97.6/47$

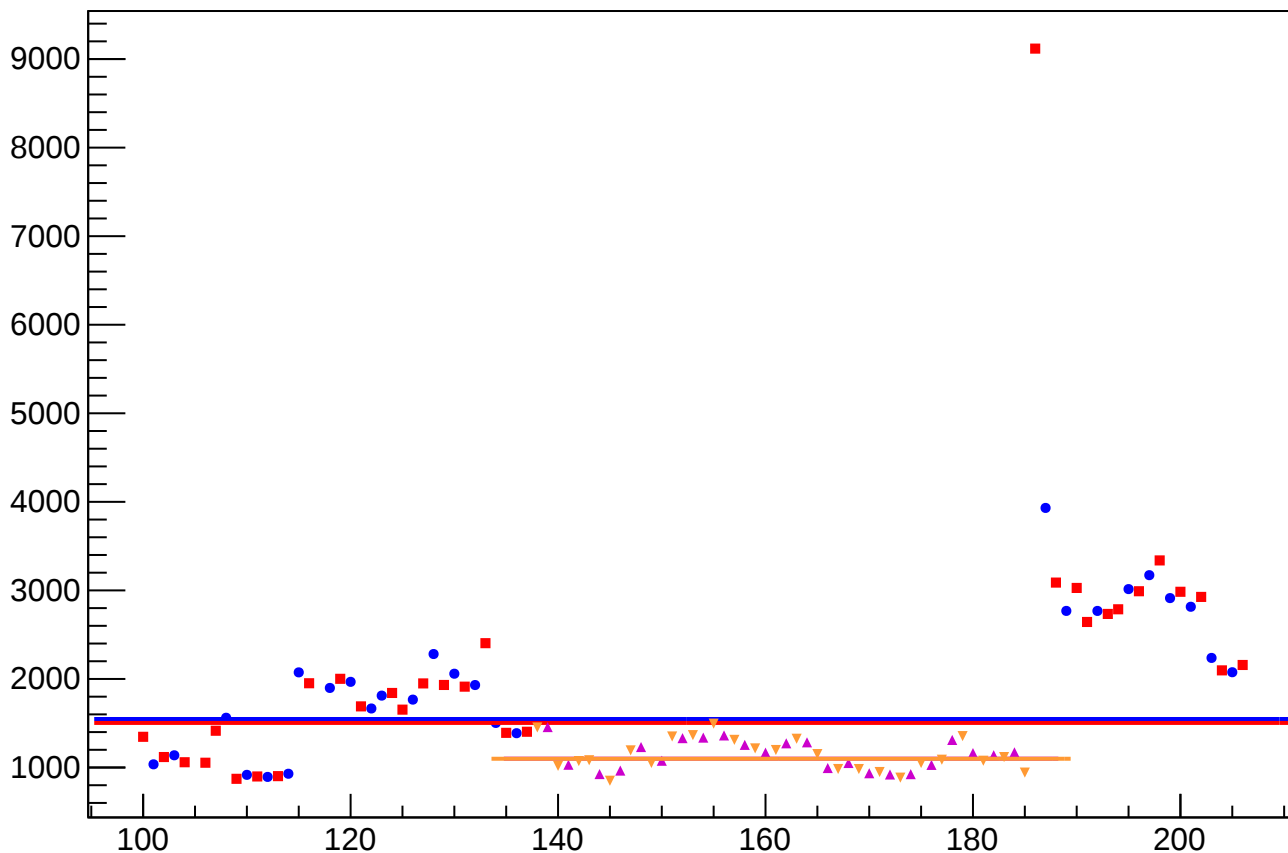
Right: 372.882 ± 318.136 $\chi^2/\text{NDF}: 59.7/56$

In: 76.327 ± 231.701 $\chi^2/\text{NDF}: 59.9/48$

Out: -640.365 ± 222.313 $\chi^2/\text{NDF}: 98.4/55$

All: -296.831 ± 160.415 $\chi^2/\text{NDF}: 163.3/104$

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1547.870+/-0.333 χ^2/NDF : 4035412.5/25

Left Out: 1098.909+/-0.183 χ^2/NDF : 824328.7/24

Right Out: 1503.487+/-0.305 χ^2/NDF : 5784783.2/30

Left In: 1099.585+/-0.188 χ^2/NDF : 679896.1/22

Left: 1099.238+/-0.131 χ^2/NDF : 1504231.4/47

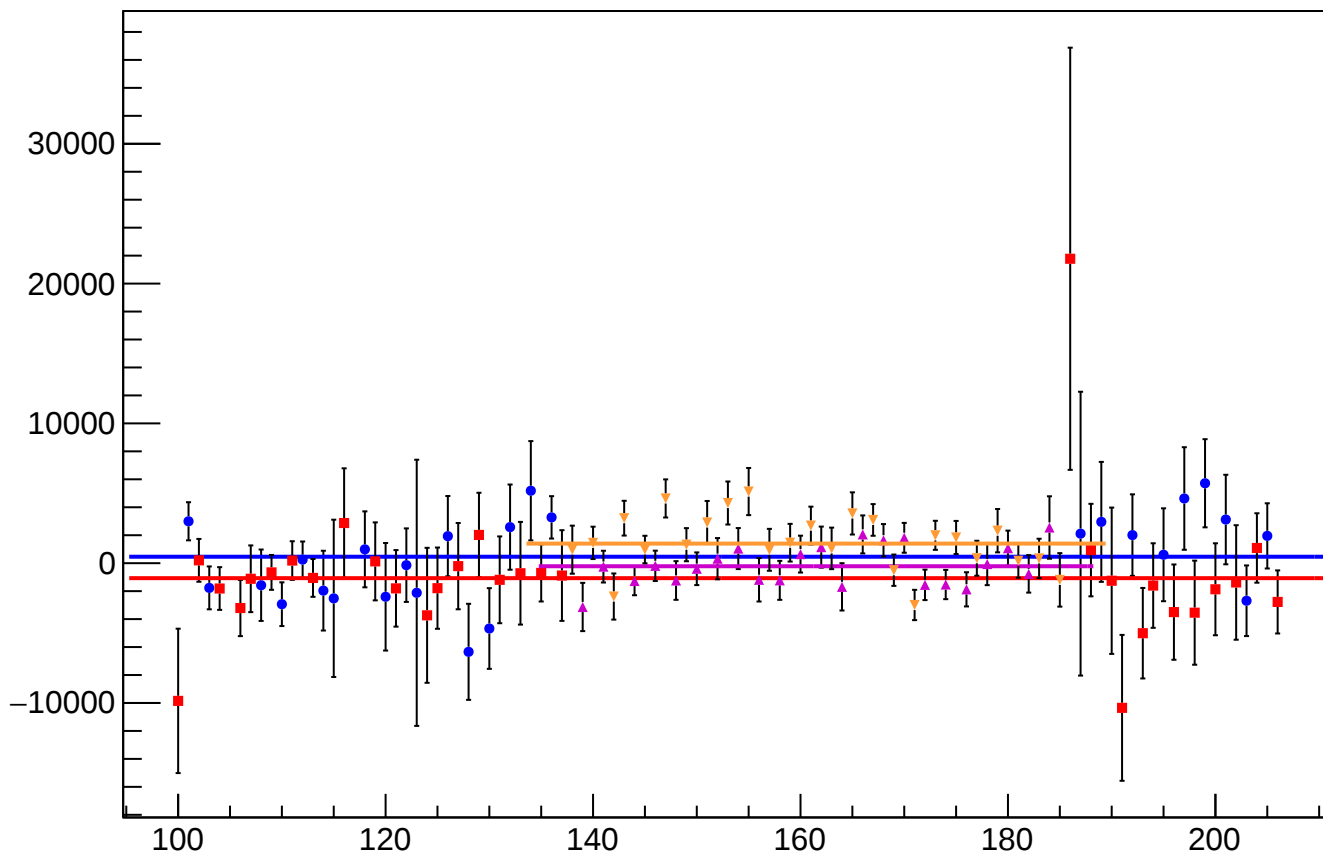
Right: 1523.791+/-0.225 χ^2/NDF : 9829856.5/56

In: 1208.365+/-0.164 χ^2/NDF : 6091150.2/48

Out: 1206.093+/-0.157 χ^2/NDF : 7899026.3/55

All: 1207.182+/-0.113 χ^2/NDF : 13990276.6/112

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 461.974+/-473.085 χ^2/NDF : 33.1/25

Left Out: 1400.458+/-261.804 χ^2/NDF :52.2/24

Right Out: -1071.236+/-434.814 χ^2/NDF : 18.4/30

Left In: -219.393+/-268.852 χ^2/NDF :25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

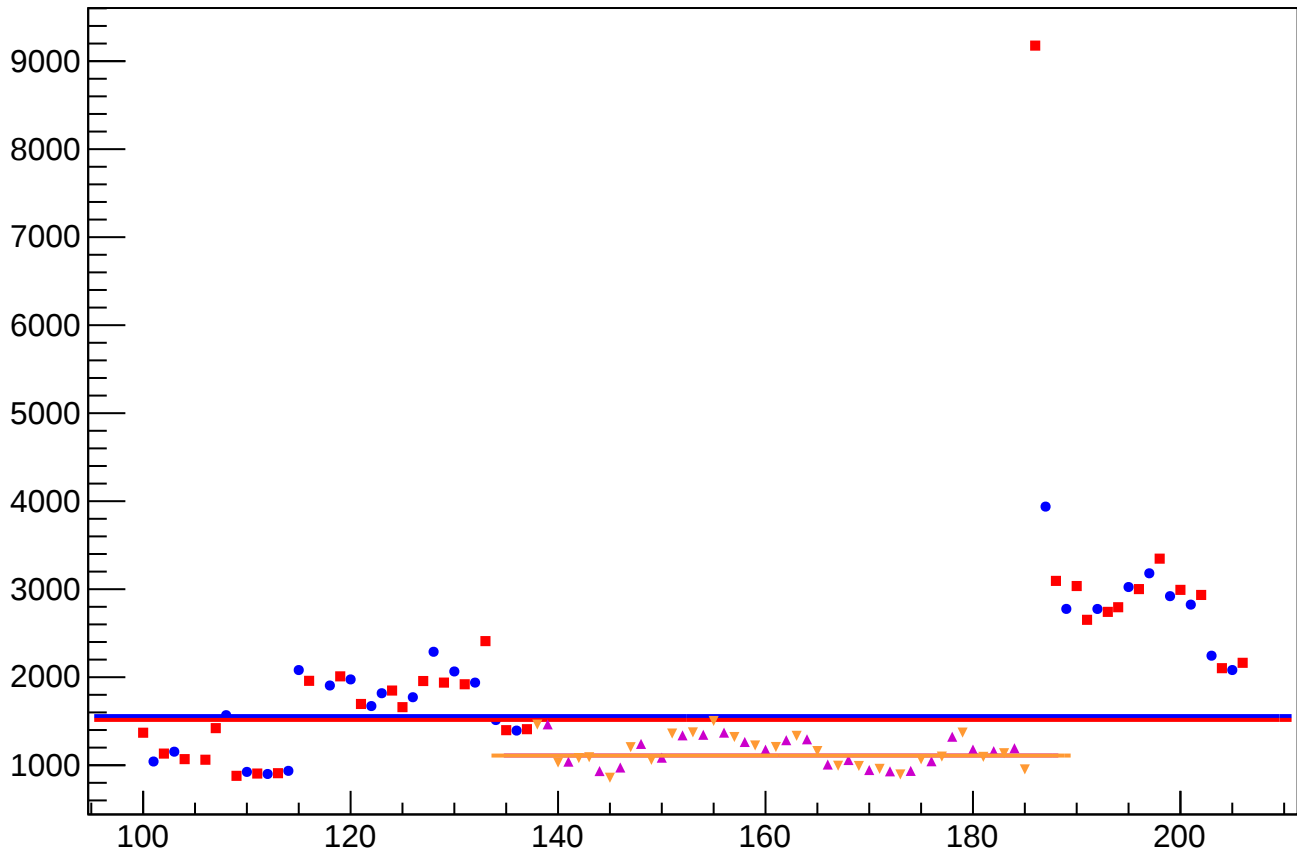
Right: -369.147+/-320.136 χ^2/NDF : 57.1/56

In: -53.058+/-233.744 χ^2/NDF :59.7/48

Out: 742.809+/-224.286 χ^2/NDF :94.3/55

All: 361.302+/-161.835 χ^2/NDF : 160.0/104

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1558.214+/-0.335 χ^2/NDF : 3998353.2/25

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1514.885+/-0.307 χ^2/NDF : 5733034.9/30

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

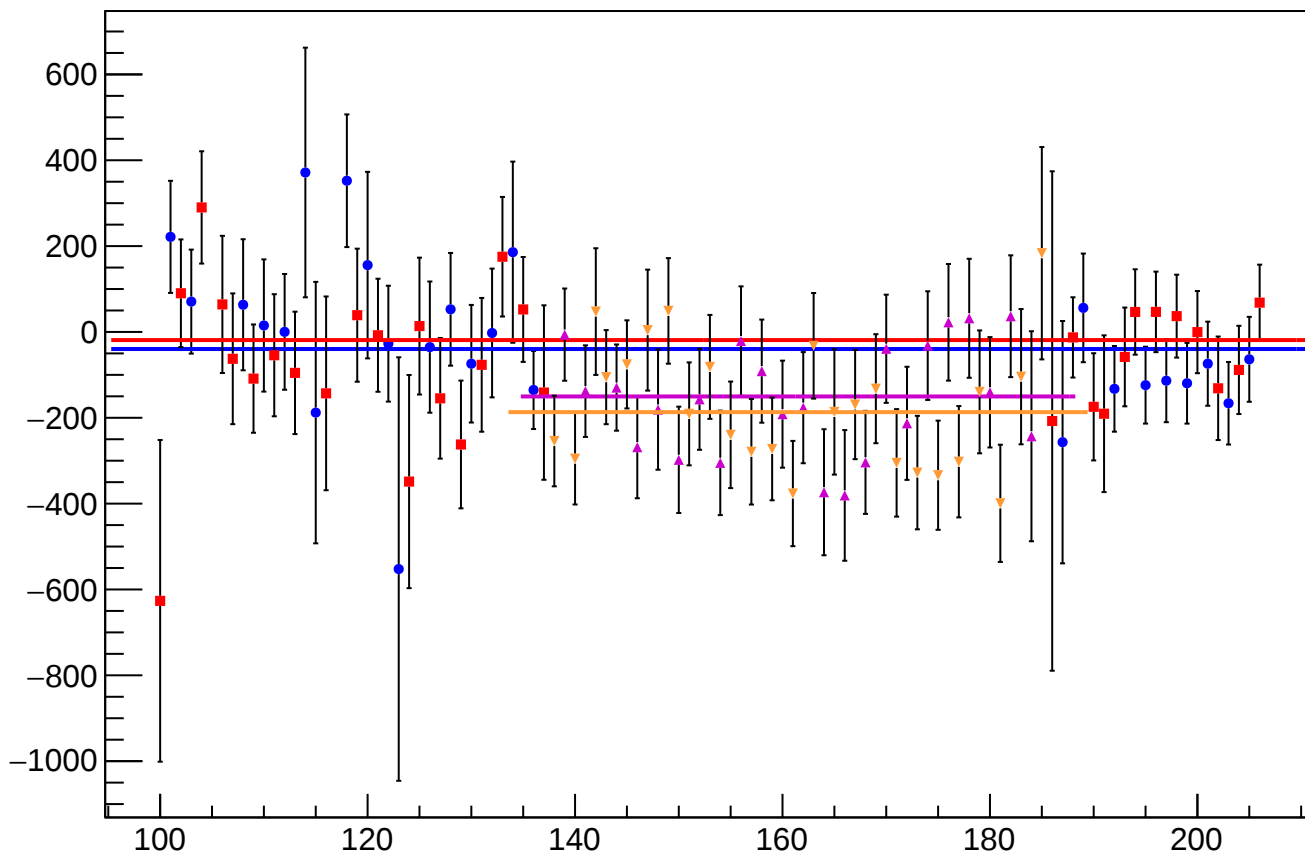
Right: 1534.726+/-0.226 χ^2/NDF : 9740482.4/56

In: 1219.827+/-0.165 χ^2/NDF : 6021991.0/48

Out: 1217.554+/-0.159 χ^2/NDF : 7819453.5/55

All: 1218.643+/-0.114 χ^2/NDF : 13841543.0/112

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -39.797 ± 25.096 $\chi^2/\text{NDF}: 25.1/25$

Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$

Right Out: -18.950 ± 23.338 $\chi^2/\text{NDF}: 25.1/30$

Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$

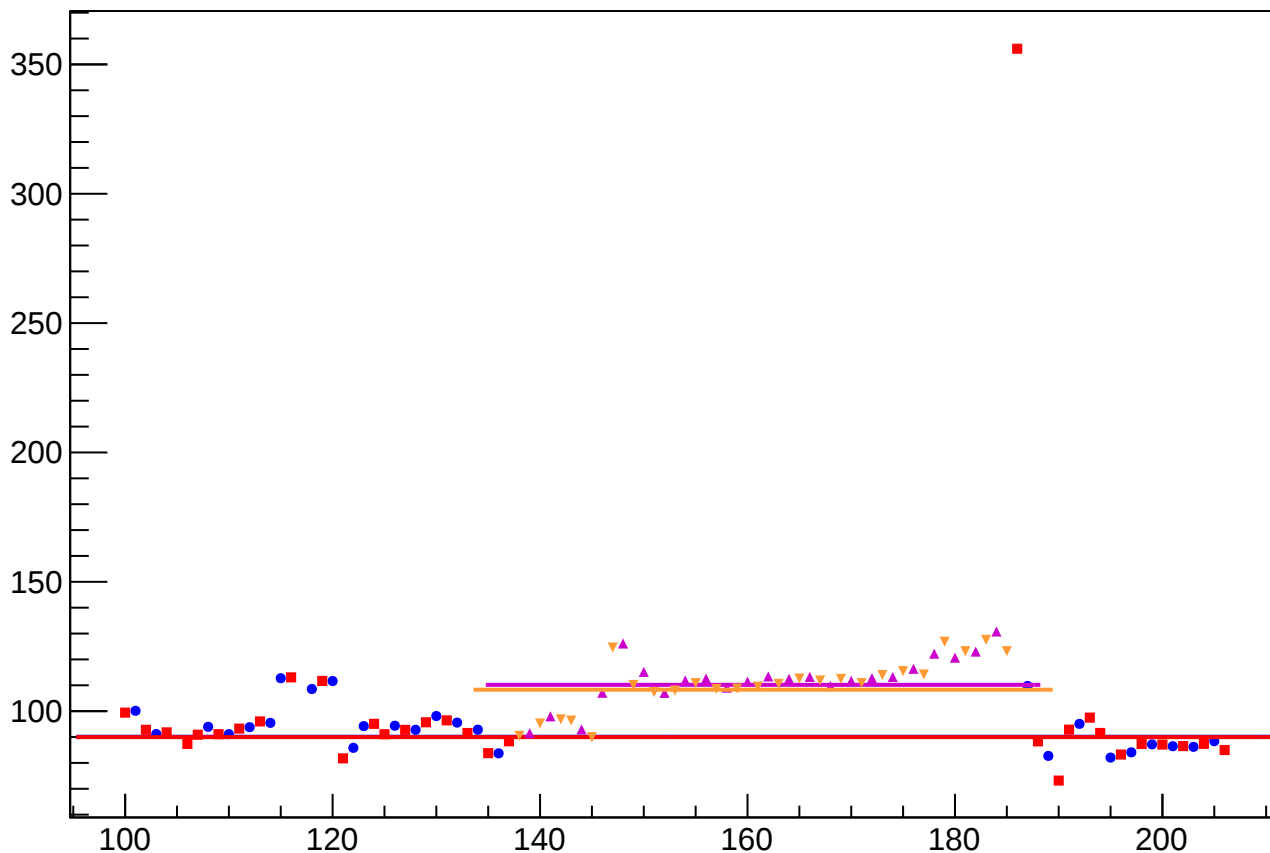
Right: -28.618 ± 17.090 $\chi^2/\text{NDF}: 50.5/56$

In: -92.165 ± 18.204 $\chi^2/\text{NDF}: 54.9/48$

Out: -96.108 ± 17.157 $\chi^2/\text{NDF}: 75.4/55$

All: -94.253 ± 12.485 $\chi^2/\text{NDF}: 130.4/104$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 90.112 $\pm$ 0.018 χ^2 /NDF: 153014.1/25

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 89.962 $\pm$ 0.017 χ^2 /NDF: 577458.9/30

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

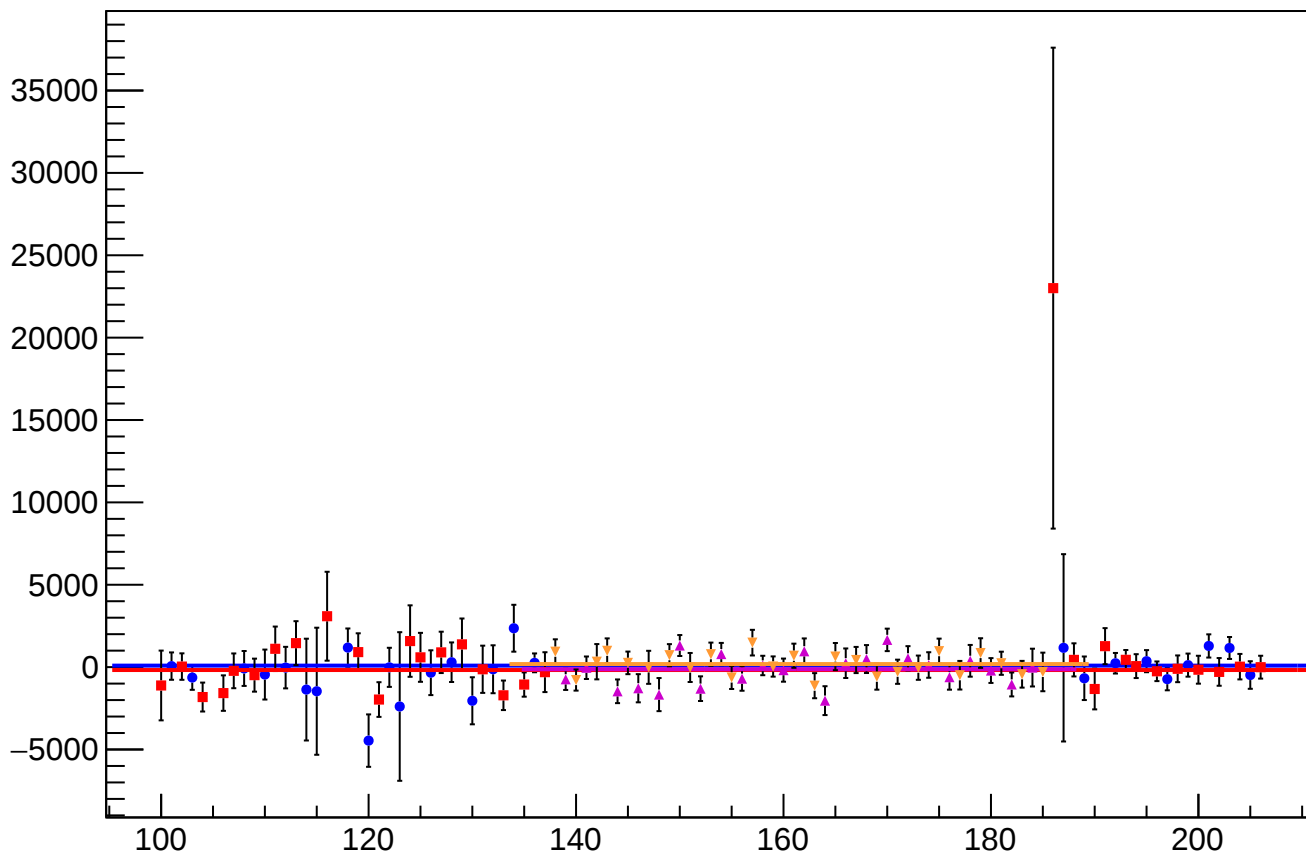
Right: 90.032 $\pm$ 0.012 χ^2 /NDF: 730511.3/56

In: 99.618 $\pm$ 0.013 χ^2 /NDF: 1005537.6/48

Out: 98.384 $\pm$ 0.012 χ^2 /NDF: 1474825.7/55

All: 98.965 $\pm$ 0.009 χ^2 /NDF: 2485229.1/104

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: 90.757+/-187.884 χ^2/NDF : 23.9/25

Left Out: 185.392+/-153.683 χ^2/NDF : 18.4/24

Right Out: -176.691+/-174.563 χ^2/NDF : 27.1/30

Left In: -128.782+/-157.155 χ^2/NDF : 36.2/22

Left: 31.814+/-109.877 χ^2/NDF : 56.6/47

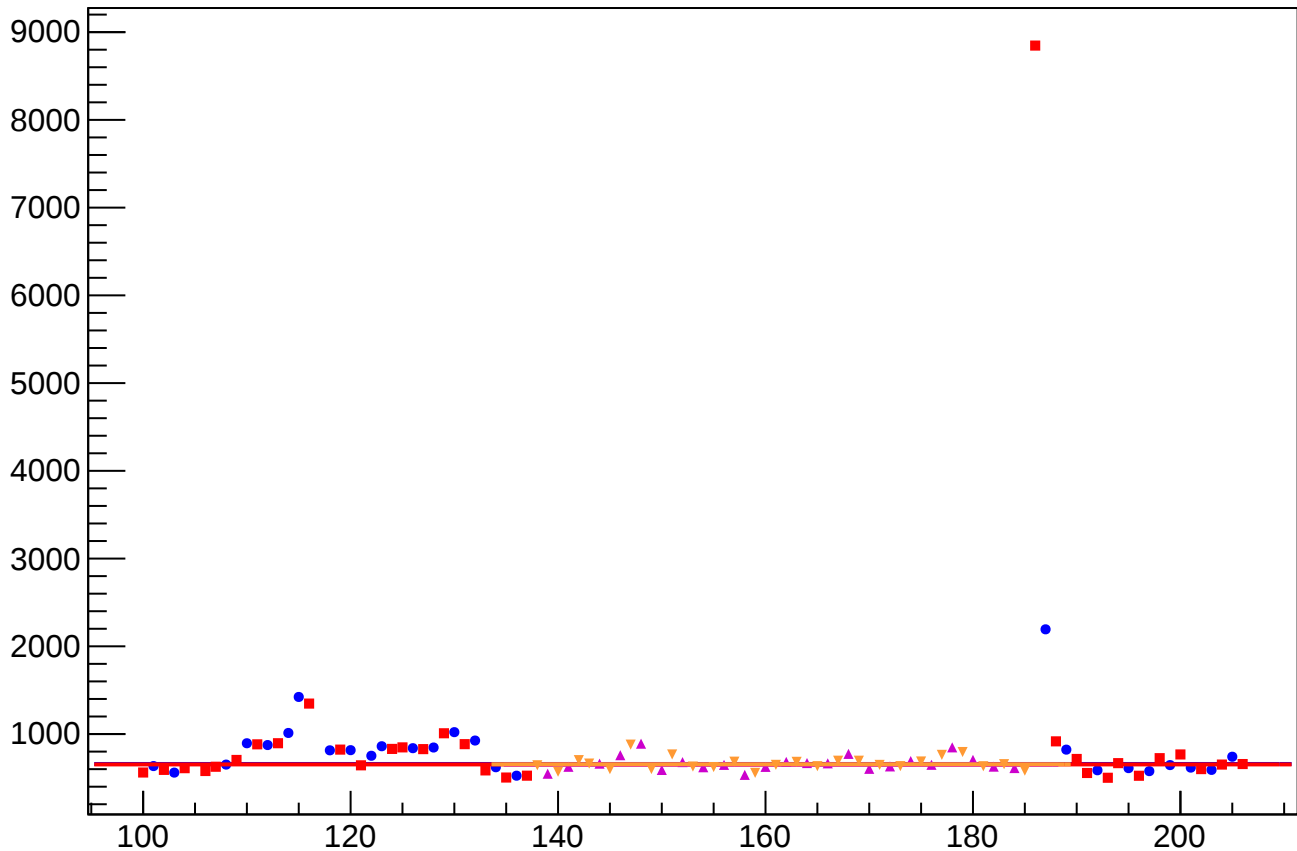
Right: -52.784+/-127.885 χ^2/NDF : 52.1/56

In: -38.410+/-120.545 χ^2/NDF : 60.9/48

Out: 27.290+/-115.350 χ^2/NDF : 47.9/55

All: -4.114+/-83.341 χ^2/NDF : 109.0/104

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 658.874+/-0.133 χ^2/NDF : 1000575.3/25

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 653.894+/-0.123 χ^2/NDF : 1765691.0/30

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

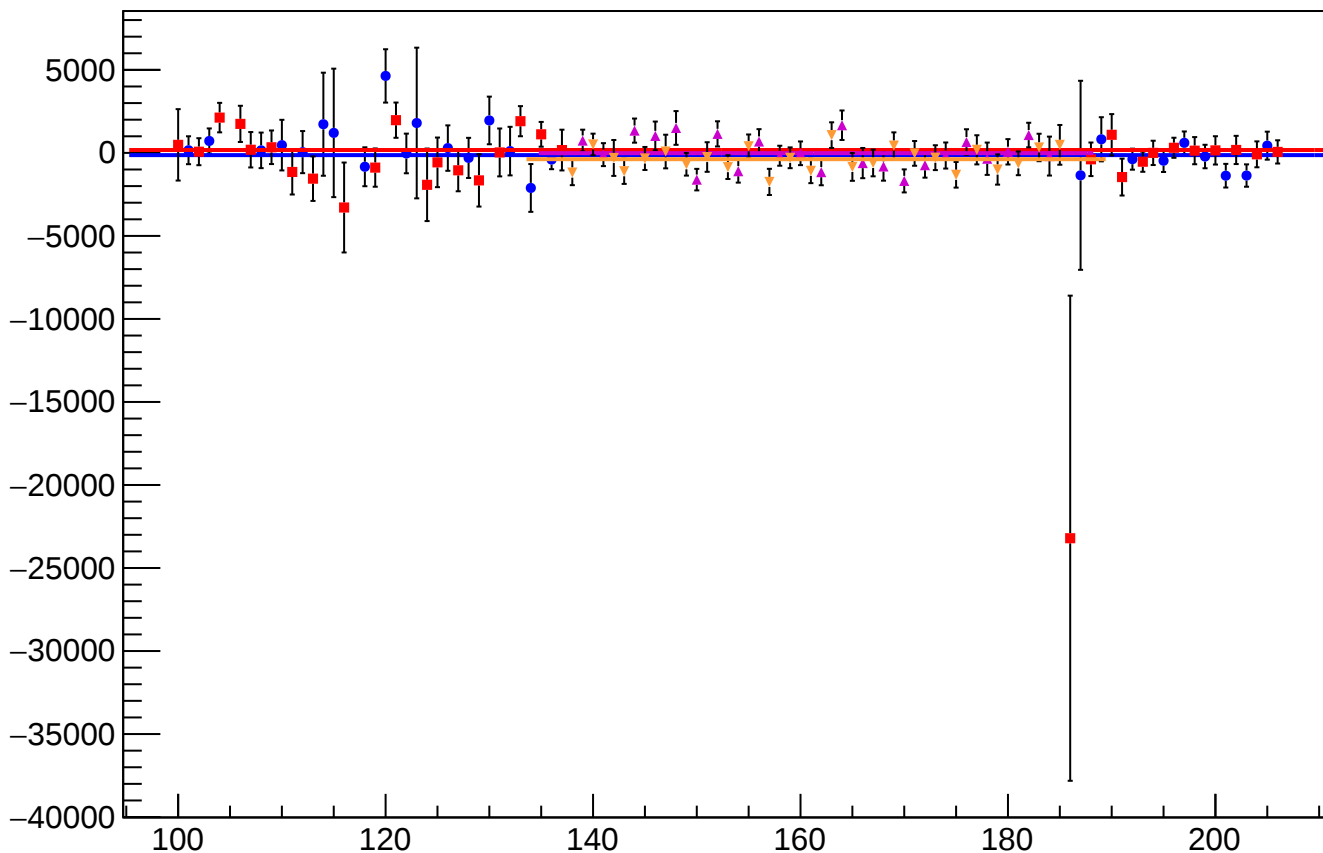
Right: 656.201+/-0.090 χ^2/NDF : 2767020.4/56

In: 654.172+/-0.085 χ^2/NDF : 1468820.4/48

Out: 654.604+/-0.082 χ^2/NDF : 2133099.6/55

All: 654.398+/-0.059 χ^2/NDF : 3601933.5/104

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -133.956 ± 189.806 χ^2/NDF : 24.8/25

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 173.469 ± 176.443 χ^2/NDF : 30.8/30

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

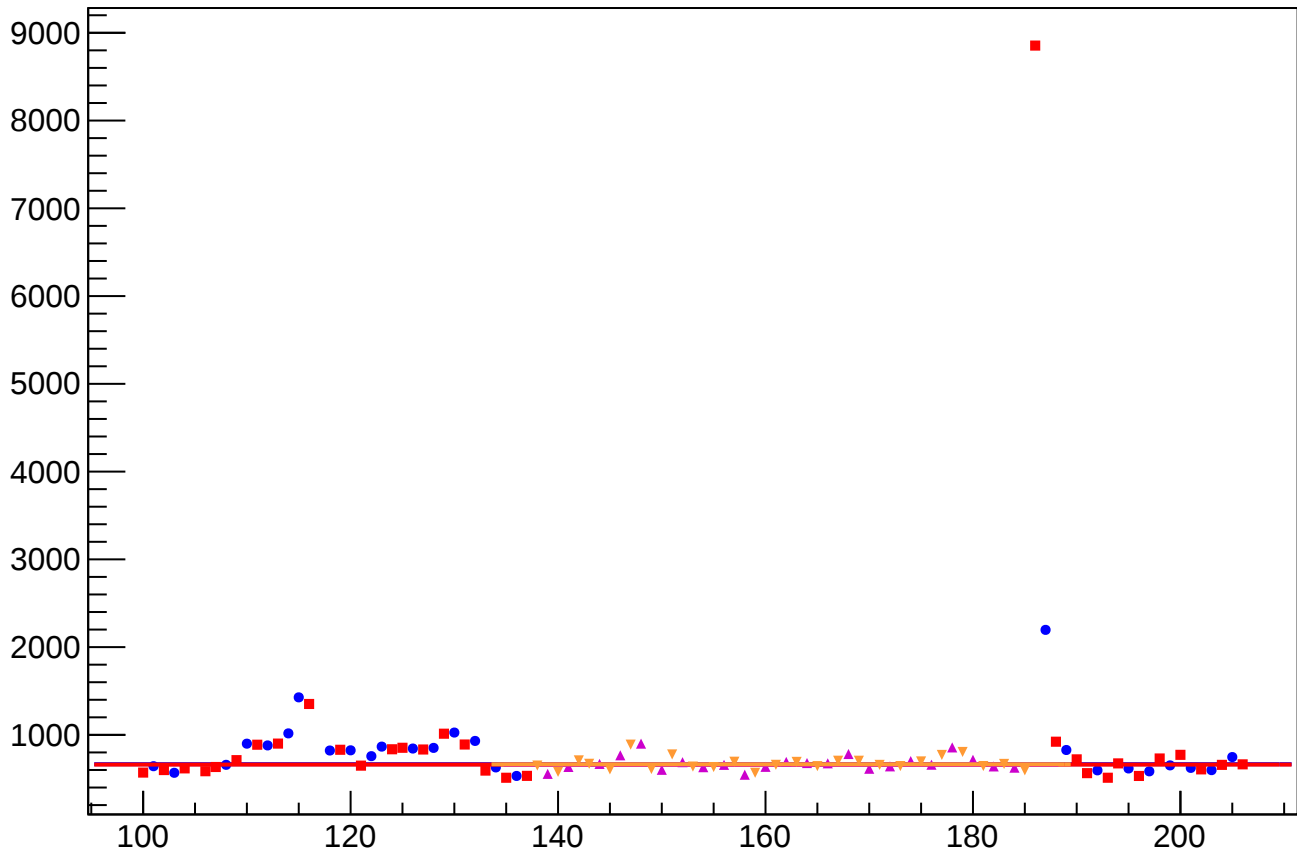
Right: 30.959 ± 129.230 χ^2/NDF : 57.0/56

In: -64.103 ± 122.116 χ^2/NDF : 62.2/48

Out: -137.062 ± 116.826 χ^2/NDF : 55.2/55

All: -102.197 ± 84.417 χ^2/NDF : 117.6/104

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 666.058+/-0.134 χ^2/NDF : 978163.7/25

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 661.527+/-0.125 χ^2/NDF : 1729280.3/30

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

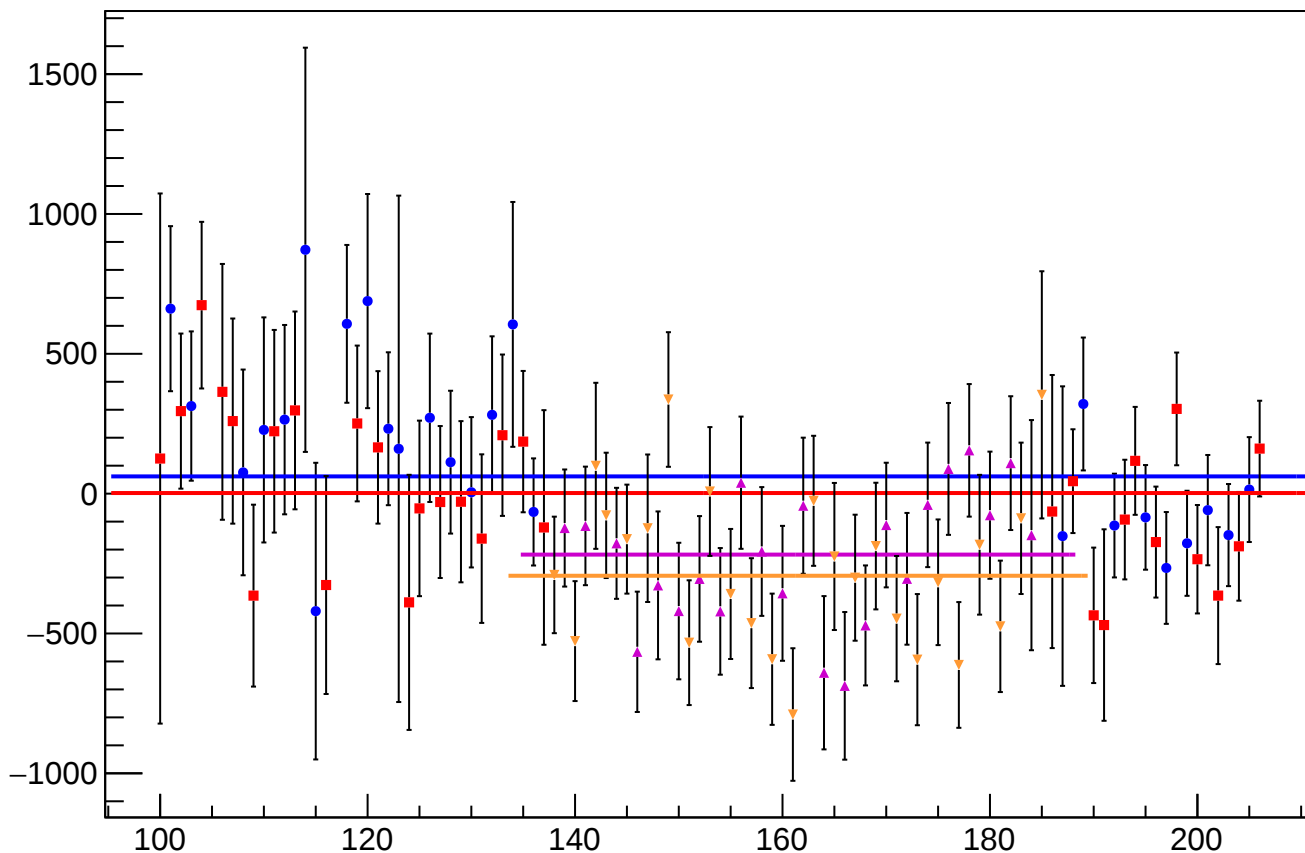
Right: 663.628+/-0.091 χ^2/NDF : 2708055.4/56

In: 663.030+/-0.086 χ^2/NDF : 1428212.7/48

Out: 663.350+/-0.083 χ^2/NDF : 2086714.1/55

All: 663.197+/-0.060 χ^2/NDF : 3514934.0/104

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 61.667 ± 50.701 χ^2/NDF : 26.5/25

Left Out: -293.590 ± 47.203 χ^2/NDF : 30.3/24

Right Out: 2.188 ± 47.565 χ^2/NDF : 28.1/30

Left In: -217.964 ± 48.819 χ^2/NDF : 21.3/22

Left: -257.050 ± 33.934 χ^2/NDF : 52.9/47

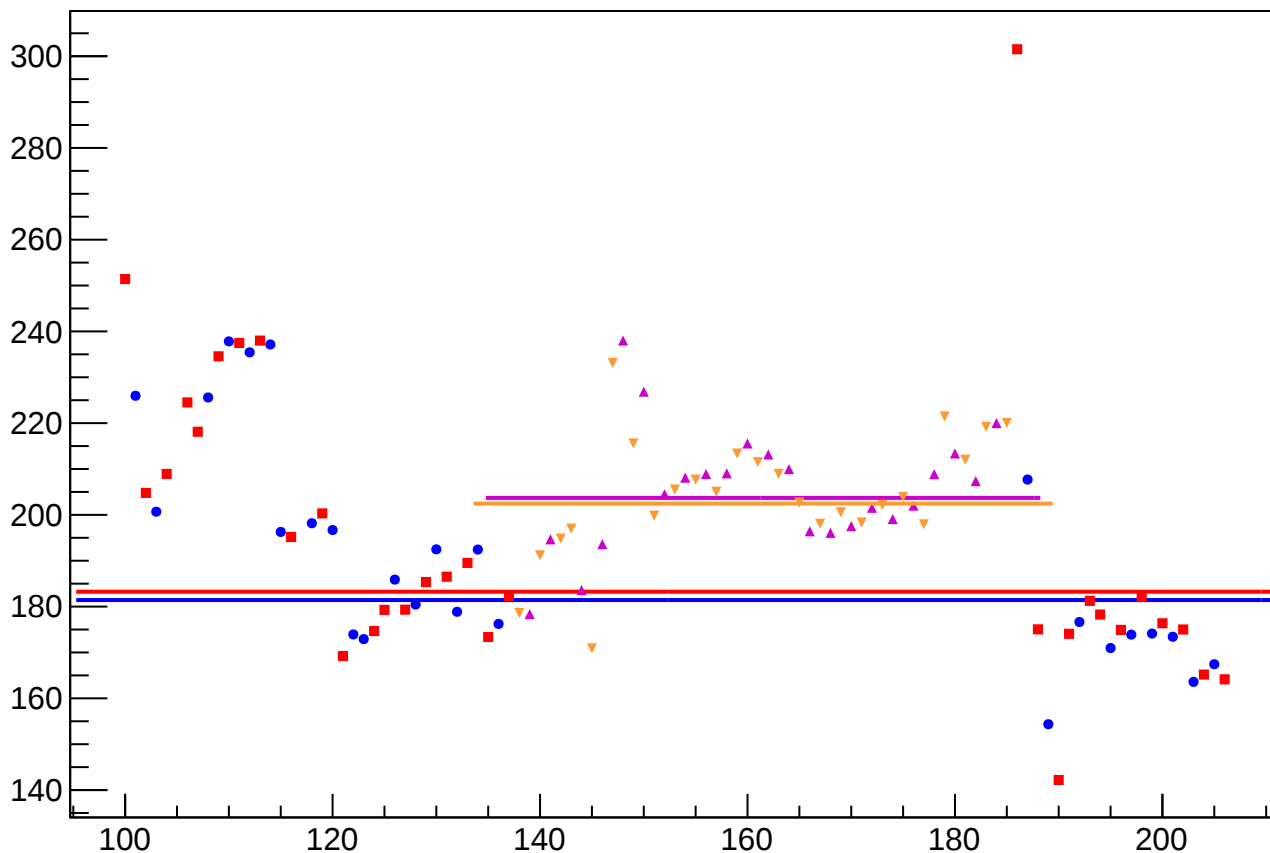
Right: 30.031 ± 34.689 χ^2/NDF : 55.4/56

In: -83.434 ± 35.167 χ^2/NDF : 63.6/48

Out: -146.830 ± 33.505 χ^2/NDF : 77.9/55

All: -116.666 ± 24.258 χ^2/NDF : 143.2/104

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 181.429 $\pm$ 0.036 χ^2 /NDF: 284902.4/25

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 183.249 $\pm$ 0.034 χ^2 /NDF: 466951.4/30

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

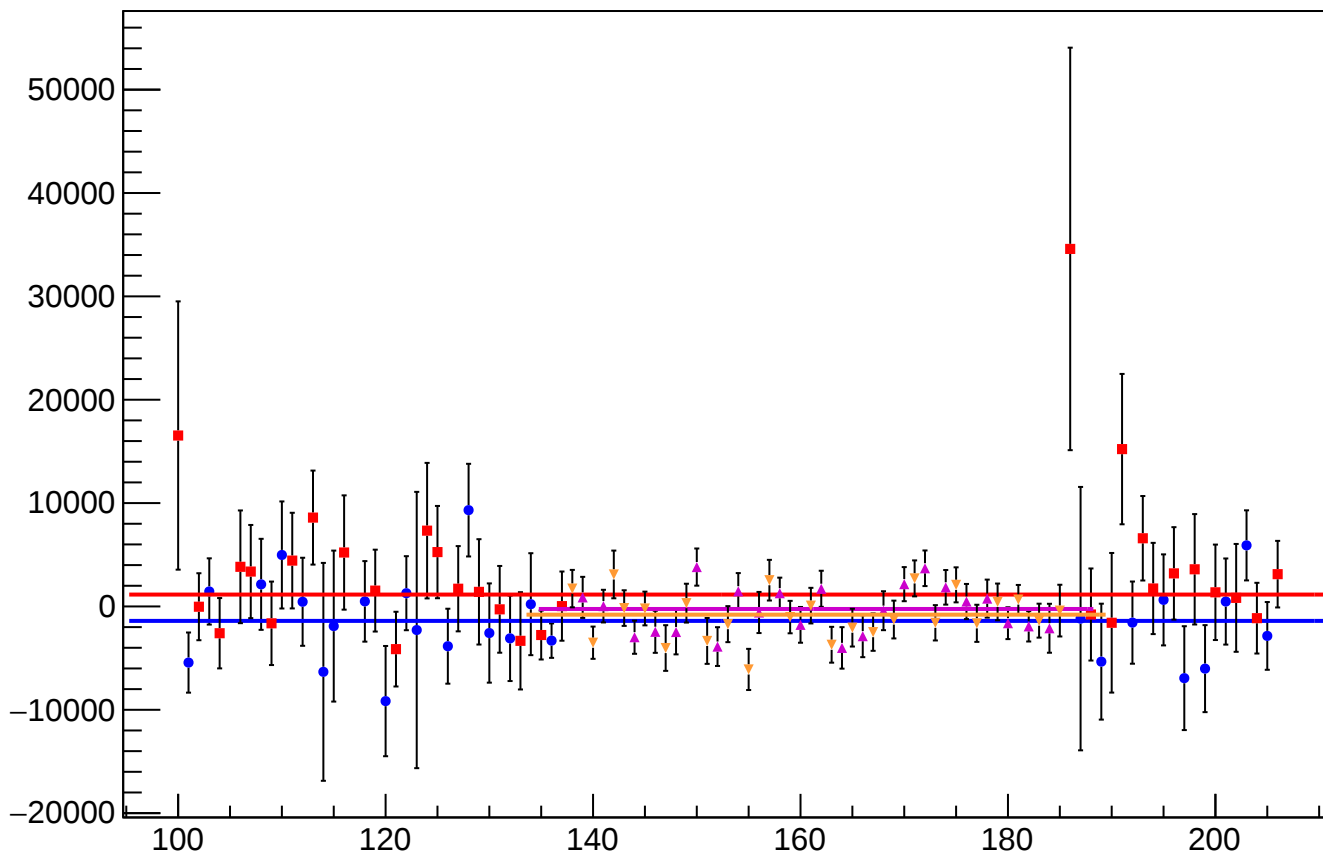
Right: 182.397 $\pm$ 0.025 χ^2 /NDF: 753225.3/56

In: 192.985 $\pm$ 0.025 χ^2 /NDF:621325.7/48

Out: 192.927 $\pm$ 0.024 χ^2 /NDF:789879.3/55

All: 192.955 $\pm$ 0.017 χ^2 /NDF: 1411207.8/104

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1398.657 ± 769.832 $\chi^2/\text{NDF}: 24.2/25$

Left Out: -796.528 ± 357.851 $\chi^2/\text{NDF}: 35.7/24$

Right Out: 1148.827 ± 767.923 $\chi^2/\text{NDF}: 25.3/30$

Left In: -245.102 ± 369.846 $\chi^2/\text{NDF}: 35.7/22$

Left: -529.902 ± 257.175 $\chi^2/\text{NDF}: 72.6/47$

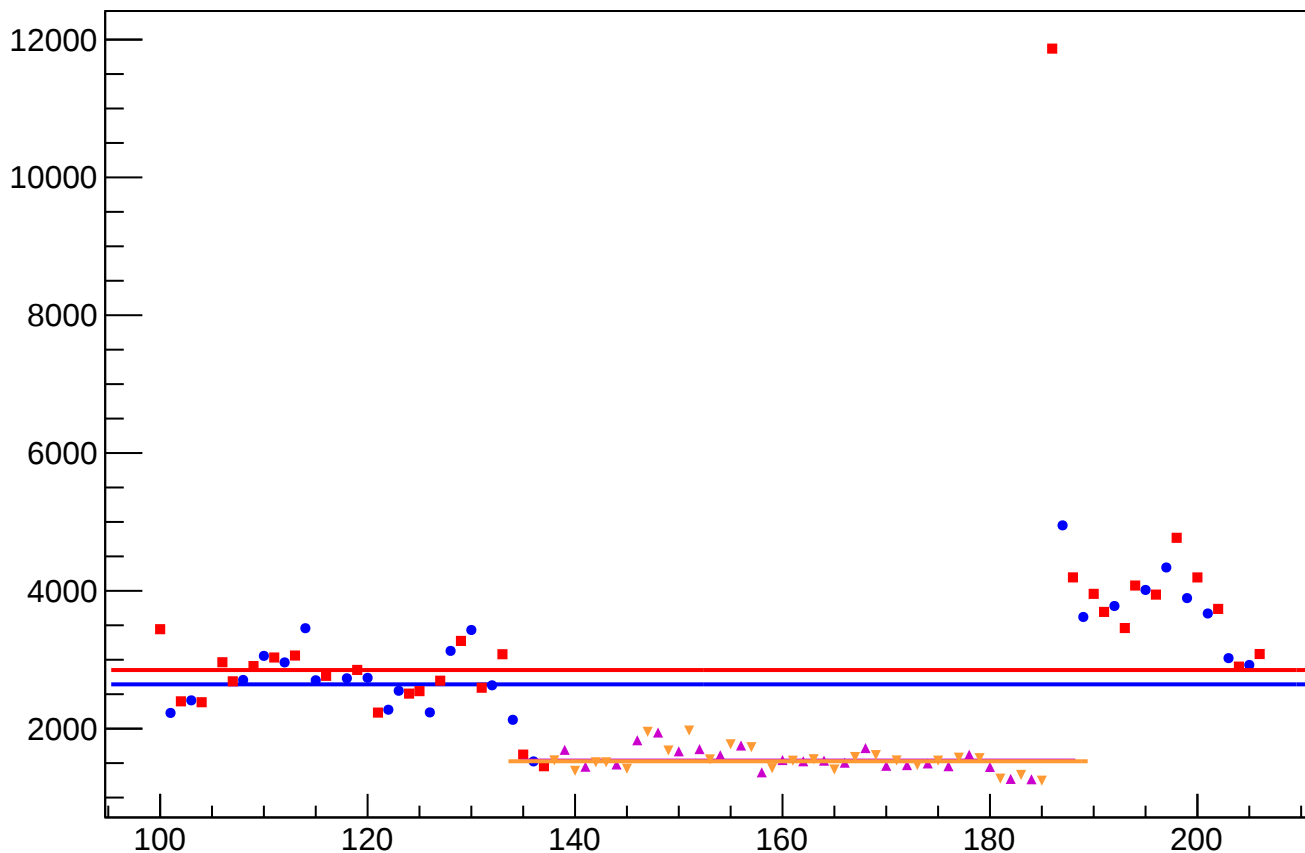
Right: -121.752 ± 543.677 $\chi^2/\text{NDF}: 55.0/56$

In: -461.423 ± 333.370 $\chi^2/\text{NDF}: 61.7/48$

Out: -449.454 ± 324.362 $\chi^2/\text{NDF}: 66.3/55$

All: -455.274 ± 232.478 $\chi^2/\text{NDF}: 128.0/104$

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2642.978+/-0.544 χ^2/NDF : 2186112.6/25

Left Out: 1526.712+/-0.253 χ^2/NDF : 394892.7/24

Right Out: 2850.468+/-0.543 χ^2/NDF : 2587175.3/30

Left In: 1536.538+/-0.262 χ^2/NDF : 350373.3/22

Left: 1531.463+/-0.182 χ^2/NDF : 745995.2/47

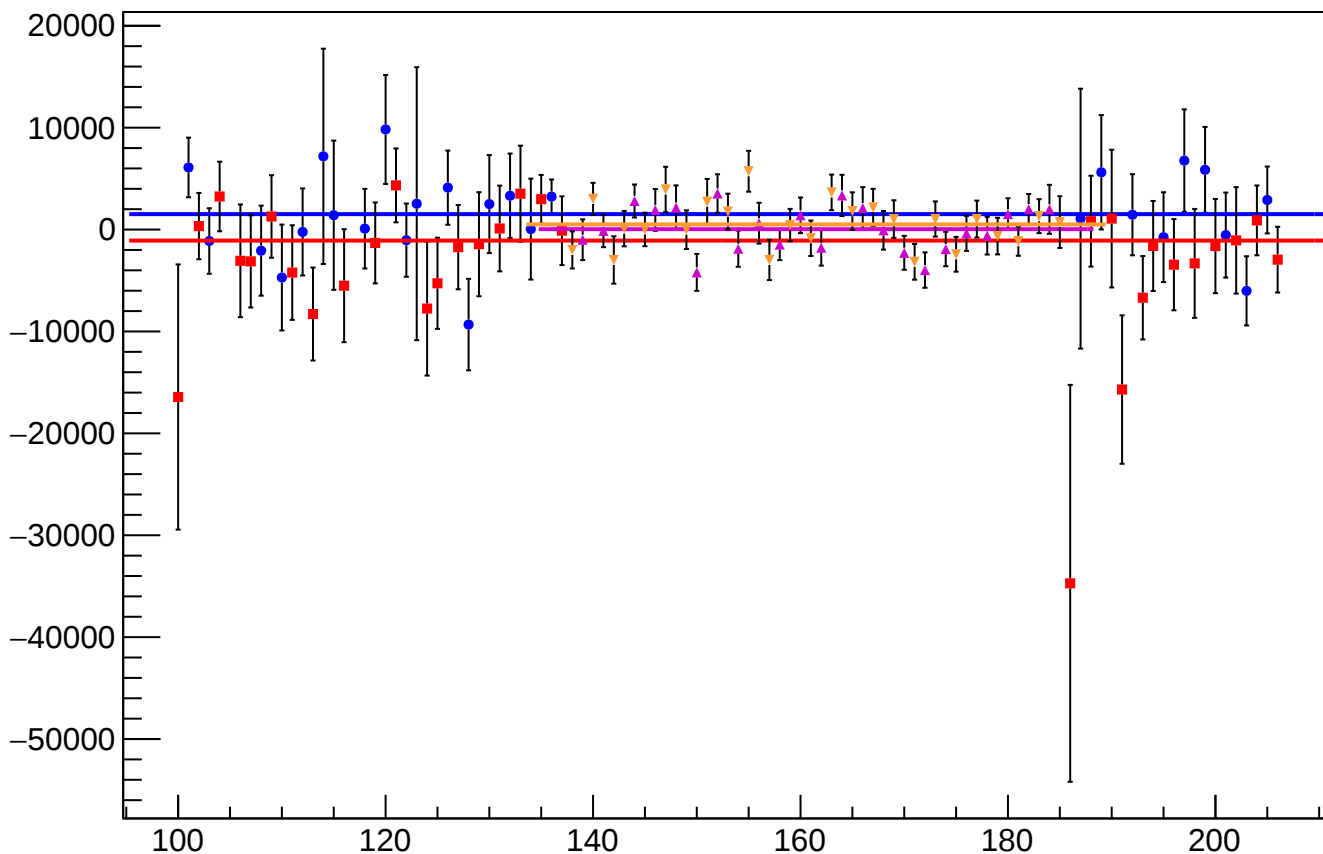
Right: 2746.981+/-0.384 χ^2/NDF : 4846112.9/56

In: 1744.023+/-0.236 χ^2/NDF : 5893113.6/48

Out: 1762.885+/-0.229 χ^2/NDF : 7864823.6/55

All: 1753.712+/-0.164 χ^2/NDF : 13761226.2/103

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1515.640+/-772.523 χ^2/NDF : 24.7/25

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -1079.845+/-770.329 χ^2/NDF : 26.0/30

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

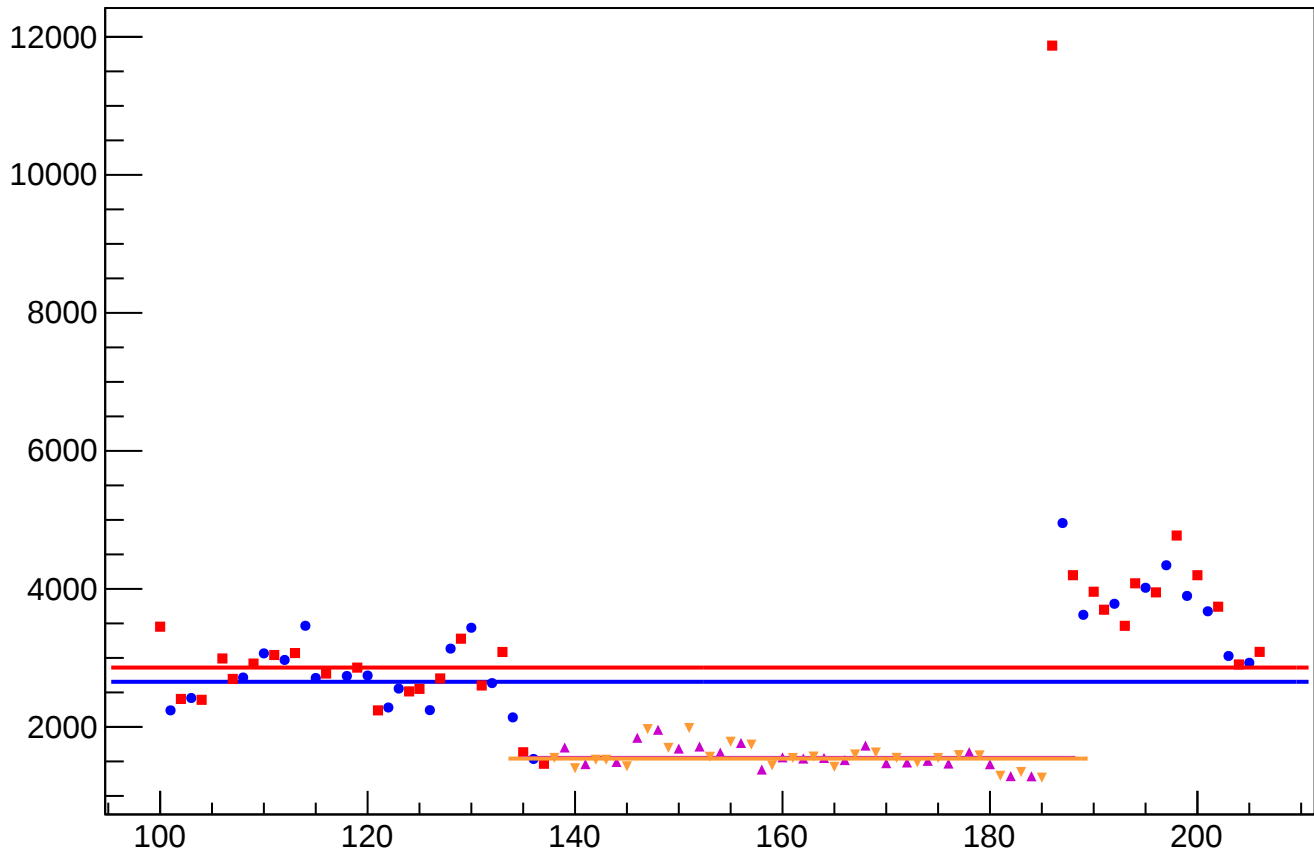
Right: 214.207+/-545.479 χ^2/NDF : 56.4/56

In: 319.357+/-336.087 χ^2/NDF : 61.3/48

Out: 221.839+/-327.014 χ^2/NDF : 64.8/55

All: 269.264+/-234.375 χ^2/NDF : 126.2/104

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2653.954+/-0.546 χ^2/NDF : 2156760.8/25

Left Out: 1541.258+/-0.255 χ^2/NDF : 382045.4/24

Right Out: 2860.461+/-0.545 χ^2/NDF : 2562073.5/30

Left In: 1551.063+/-0.264 χ^2/NDF : 338898.9/22

Left: 1546.000+/-0.184 χ^2/NDF : 721657.1/47

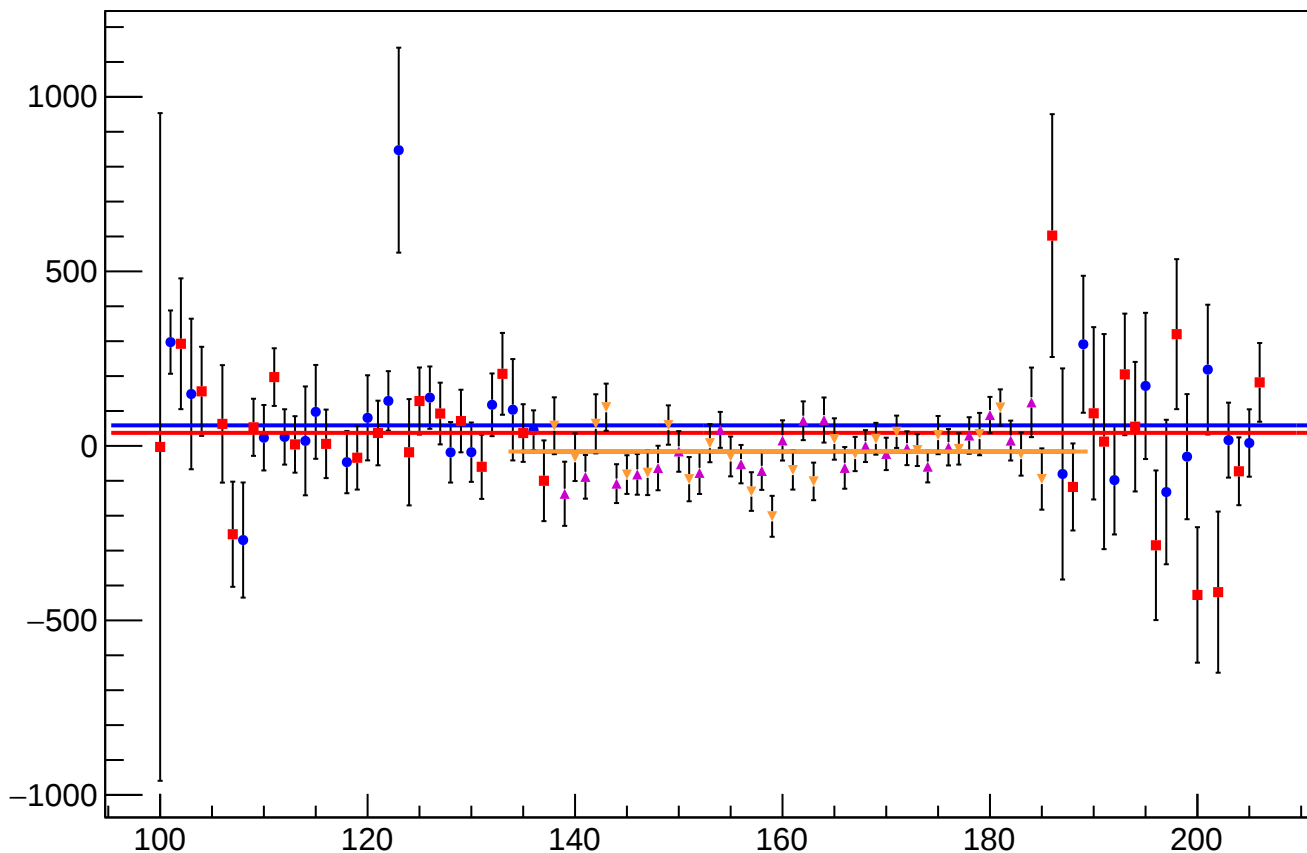
Right: 2757.501+/-0.386 χ^2/NDF : 4790495.2/56

In: 1759.806+/-0.238 χ^2/NDF : 5800484.4/48

Out: 1778.992+/-0.231 χ^2/NDF : 7752542.4/55

All: 1769.662+/-0.166 χ^2/NDF : 13556374.7/103

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 58.809+/-21.594 χ^2/NDF : 29.0/25

Left Out: -16.049+/-11.340 χ^2/NDF :39.7/24

Right Out: 37.374+/-21.270 χ^2/NDF : 39.0/30

Left In: -16.162+/-11.649 χ^2/NDF :25.2/22

Left: -16.104+/-8.126 χ^2/NDF : 64.9/47

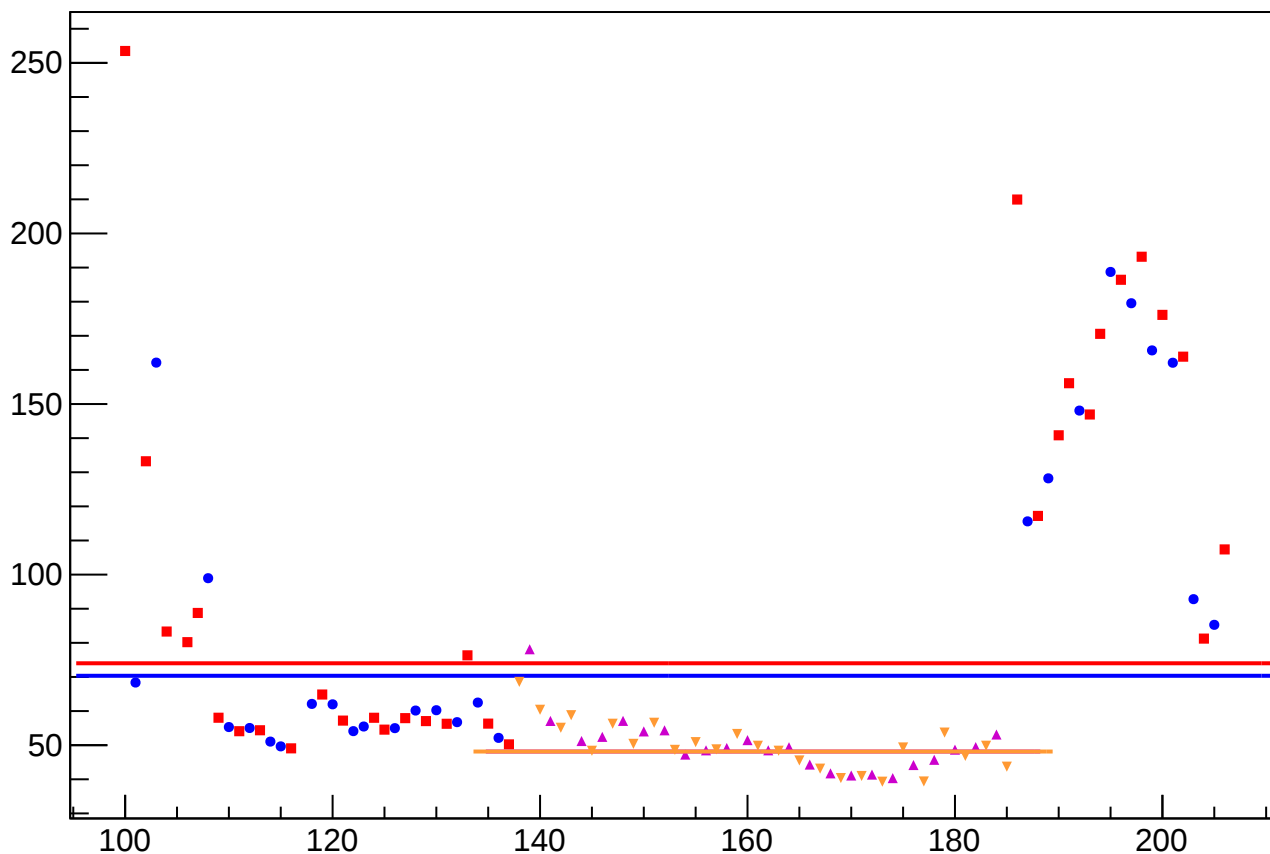
Right: 47.929+/-15.153 χ^2/NDF : 68.6/56

In: 0.739+/-10.253 χ^2/NDF :63.6/48

Out: -4.225+/-10.007 χ^2/NDF :83.6/55

All: -1.803+/-7.161 χ^2/NDF : 147.3/104

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 70.344+/-0.015 χ^2/NDF : 4202310.3/25

Left Out: 48.141+/-0.008 χ^2/NDF : 655250.3/24

Right Out: 74.009+/-0.015 χ^2/NDF : 5255142.8/30

Left In: 48.139+/-0.008 χ^2/NDF : 575025.5/22

Left: 48.140+/-0.006 χ^2/NDF : 1230275.9/47

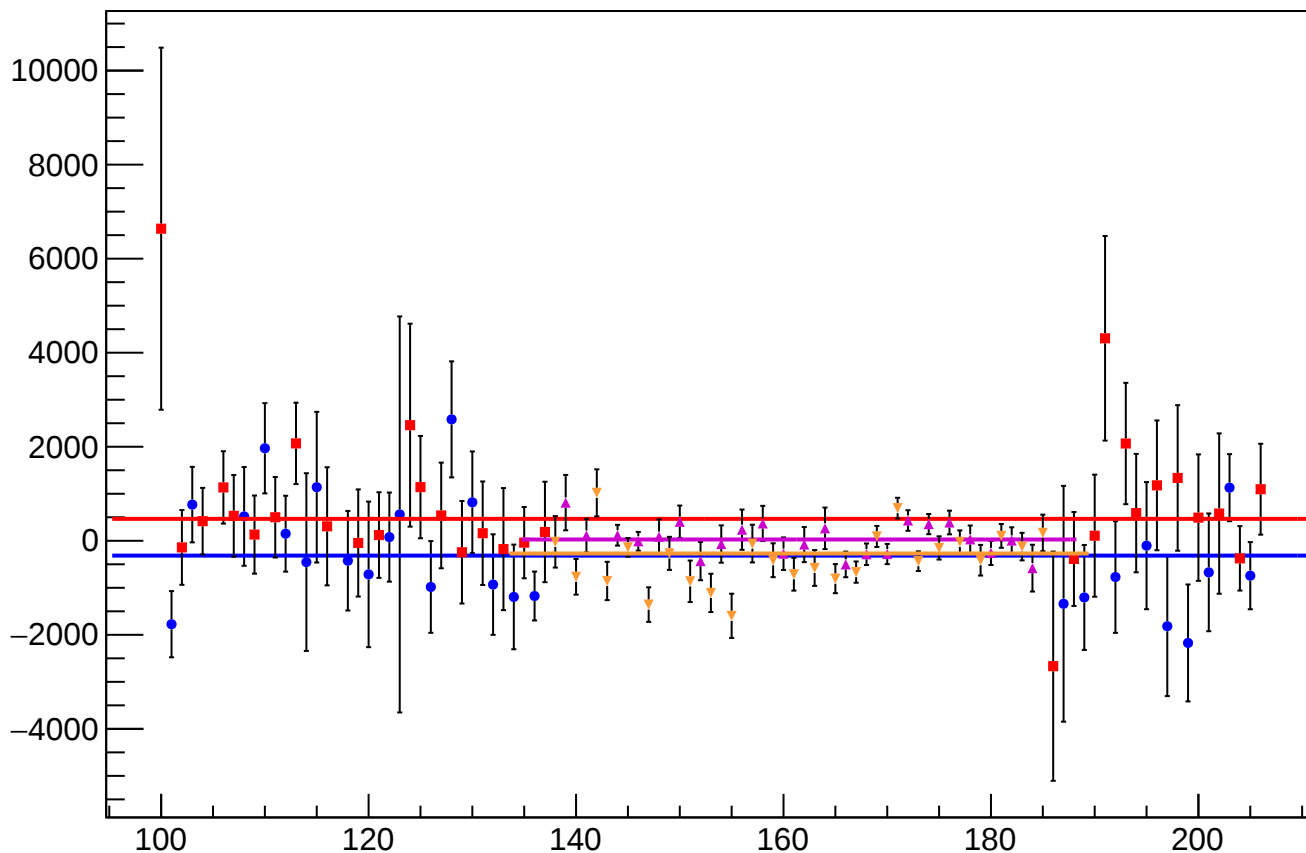
Right: 72.204+/-0.011 χ^2/NDF : 9486706.9/56

In: 53.145+/-0.007 χ^2/NDF : 6415356.5/48

Out: 53.866+/-0.007 χ^2/NDF : 8214013.8/55

All: 53.514+/-0.005 χ^2/NDF : 14634443.8/104

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -315.306 ± 195.831 χ^2/NDF : 33.4/25

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 466.334 ± 187.675 χ^2/NDF : 20.0/30

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

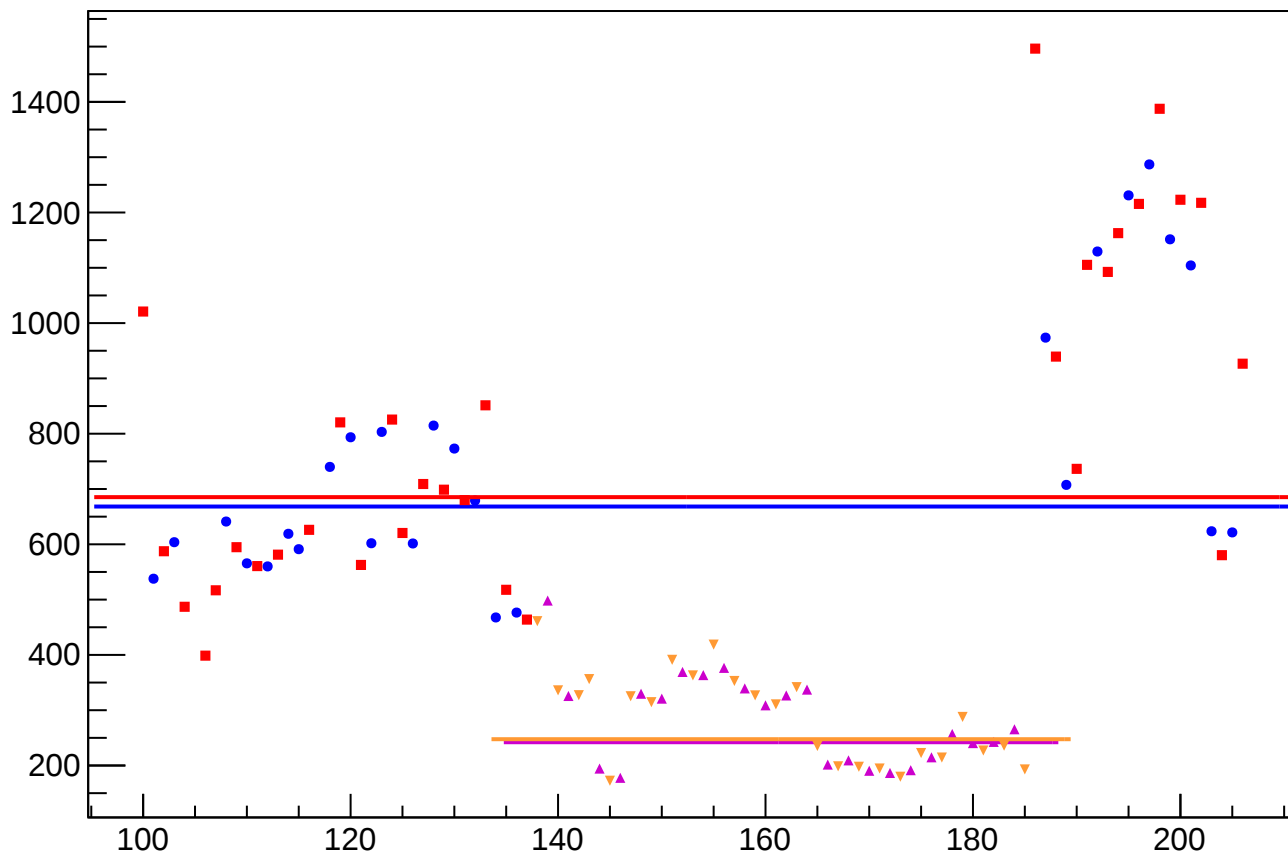
Right: 92.131 ± 135.498 χ^2/NDF : 61.7/56

In: -2.514 ± 57.743 χ^2/NDF : 61.3/48

Out: -201.546 ± 57.304 χ^2/NDF : 104.1/55

All: -102.790 ± 40.674 χ^2/NDF : 171.3/104

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 668.304+/-0.138 χ^2/NDF : 2163579.5/25

Left Out: 247.570+/-0.043 χ^2/NDF : 2780931.0/24

Right Out: 685.295+/-0.133 χ^2/NDF : 3260563.1/30

Left In: 242.117+/-0.043 χ^2/NDF : 2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47

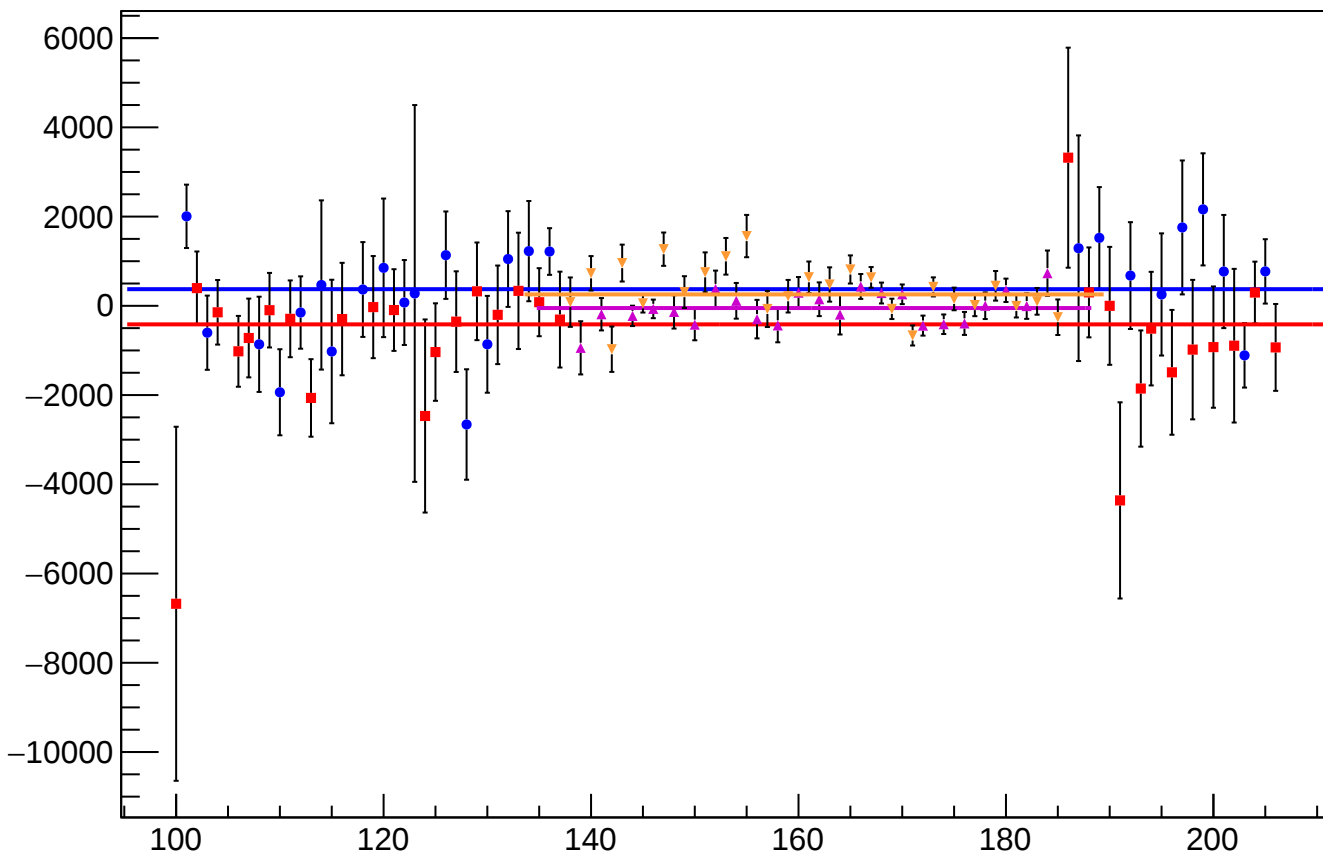
Right: 677.161+/-0.096 χ^2/NDF : 5431990.9/56

In: 279.171+/-0.041 χ^2/NDF : 13278632.5/48

Out: 288.379+/-0.041 χ^2/NDF : 15906981.2/55

All: 283.810+/-0.029 χ^2/NDF : 29211236.6/100

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 373.164 $\pm$ 197.679 χ^2/NDF : 35.3/25

Left Out: 255.995 $\pm$ 61.418 χ^2/NDF : 63.6/24

Right Out: -415.615 $\pm$ 189.773 χ^2/NDF : 20.4/30

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

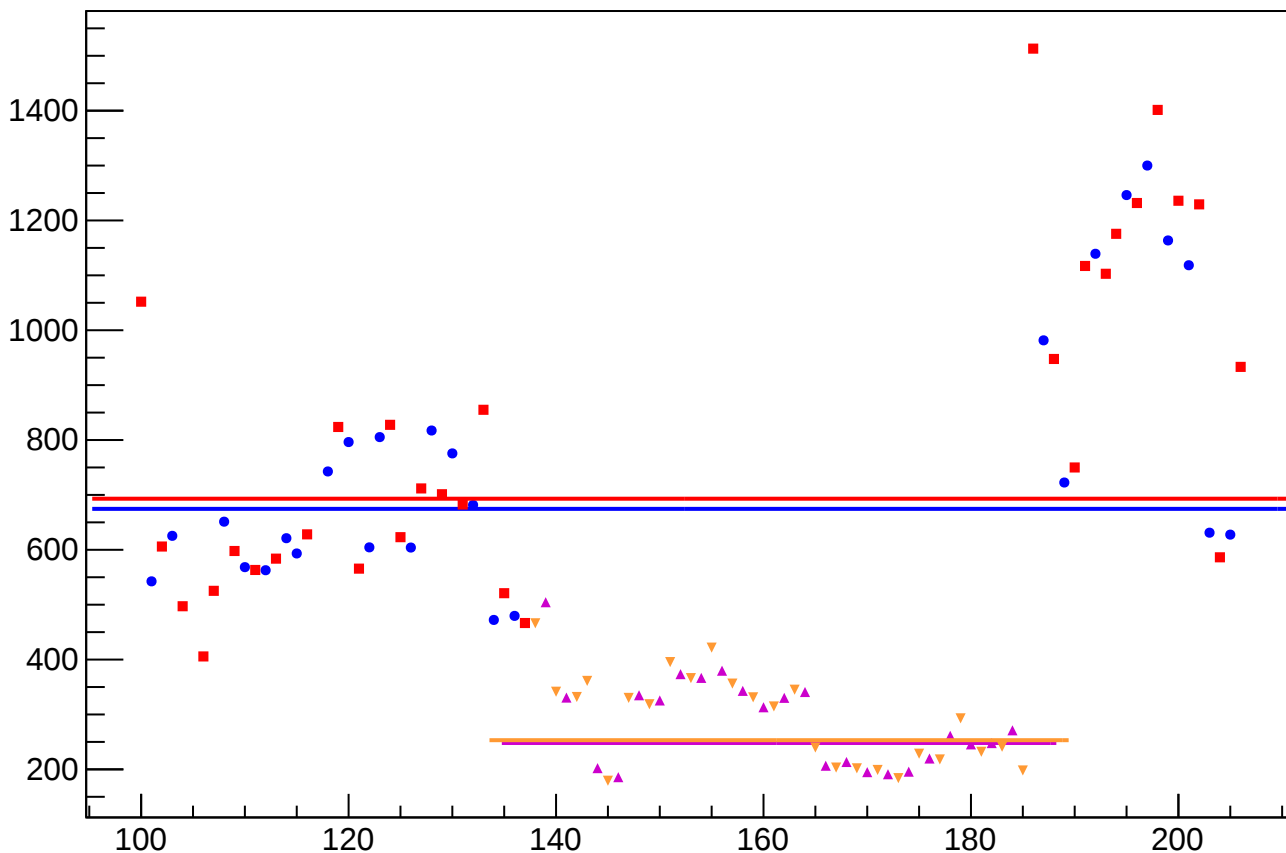
Right: -37.313 $\pm$ 136.899 χ^2/NDF : 64.0/56

In: -12.191 $\pm$ 58.968 χ^2/NDF : 67.0/48

Out: 192.318 $\pm$ 58.434 χ^2/NDF : 95.4/55

All: 90.994 $\pm$ 41.507 χ^2/NDF : 168.5/104

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 674.578+/-0.140 χ^2/NDF : 2170390.4/25

Left Out: 253.137+/-0.043 χ^2/NDF : 2665975.8/24

Right Out: 693.084+/-0.134 χ^2/NDF : 3233580.9/30

Left In: 248.069+/-0.044 χ^2/NDF : 2343295.0/22

Left: 250.618+/-0.031 χ^2/NDF : 5016040.5/47

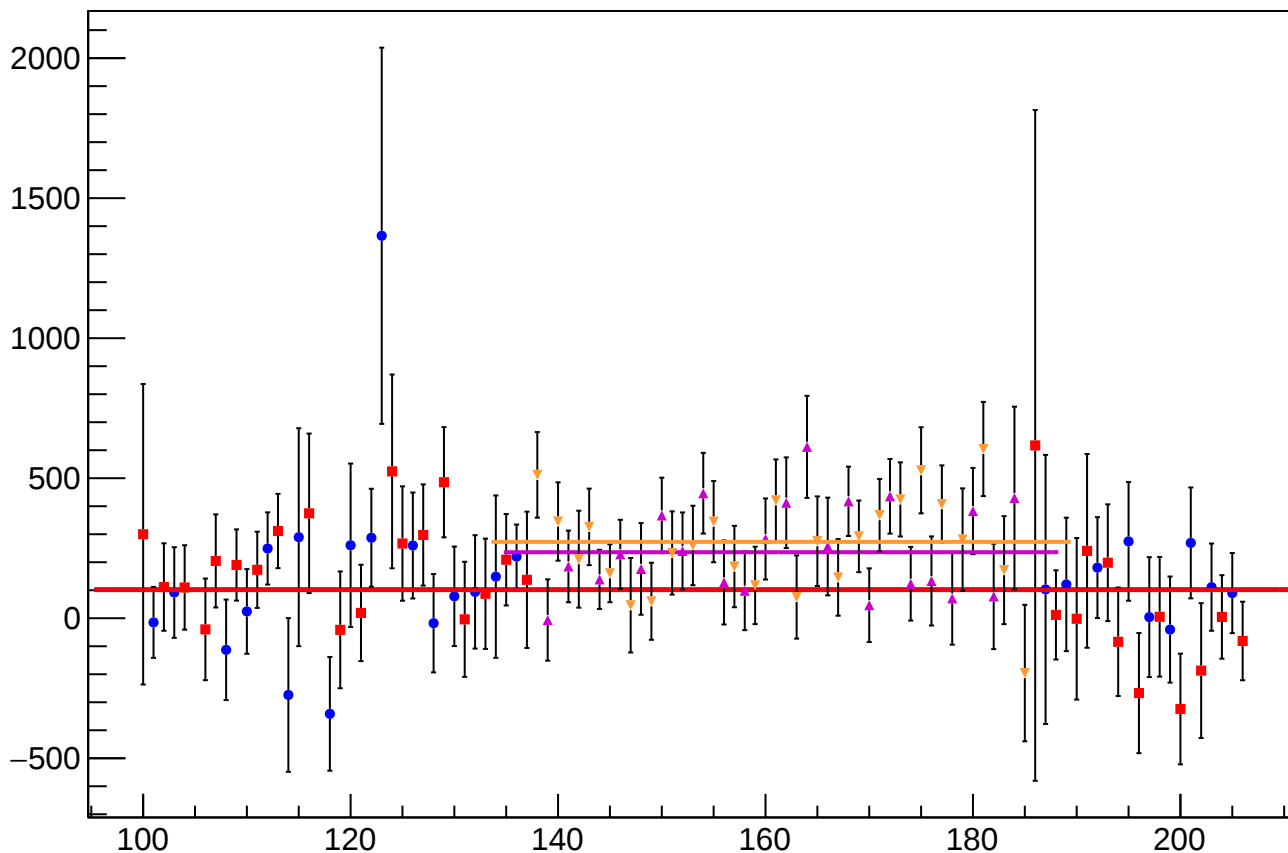
Right: 684.208+/-0.097 χ^2/NDF : 5413092.1/56

In: 286.022+/-0.042 χ^2/NDF : 12995607.6/48

Out: 294.849+/-0.041 χ^2/NDF : 15629236.4/55

All: 290.476+/-0.029 χ^2/NDF : 28647458.6/10

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 103.278+/-36.008 χ^2/NDF : 20.3/25

Left Out: 272.684+/-29.221 χ^2/NDF :27.4/24

Right Out: 100.441+/-33.670 χ^2/NDF : 27.2/30

Left In: 235.801+/-30.232 χ^2/NDF :24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

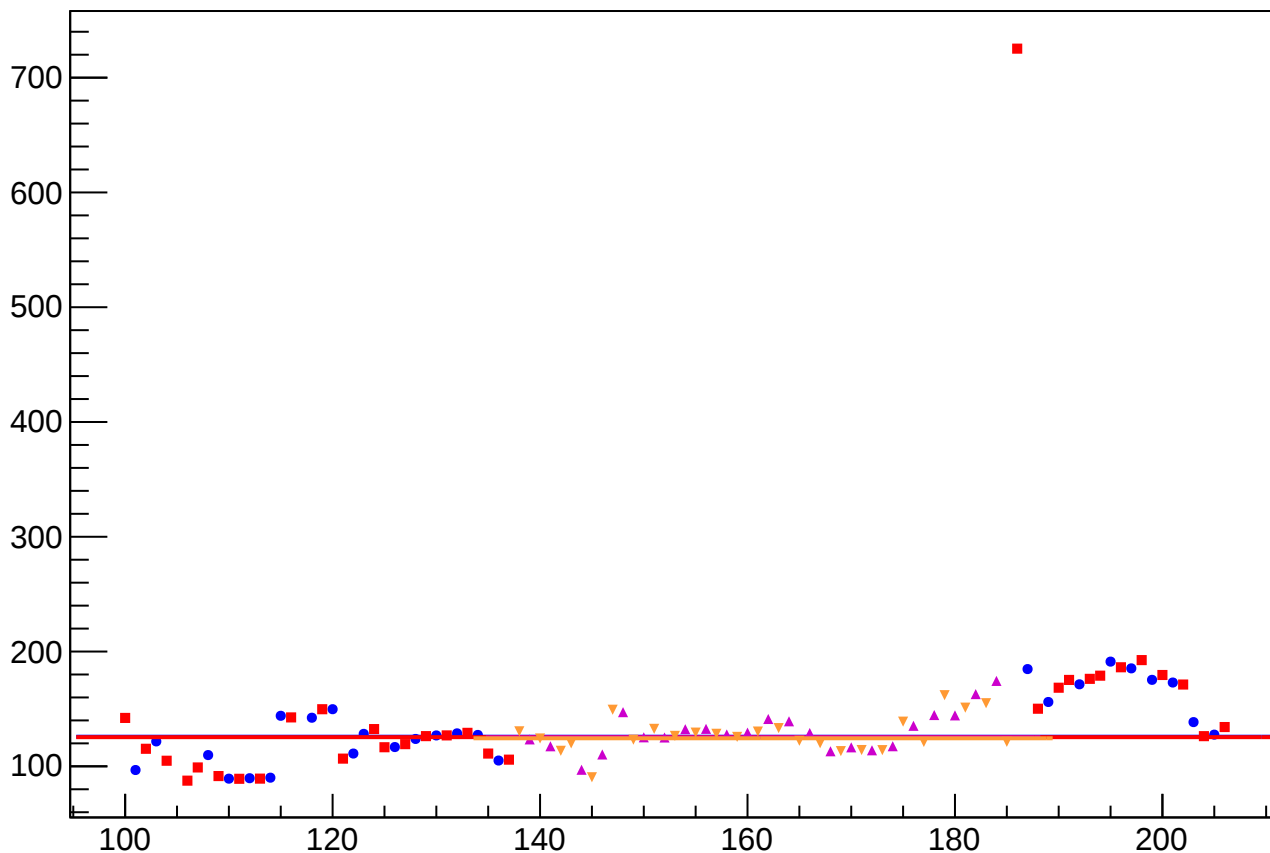
Right: 101.764+/-24.593 χ^2/NDF : 47.5/56

In: 181.009+/-23.153 χ^2/NDF :52.9/48

Out: 198.685+/-22.069 χ^2/NDF :69.5/55

All: 190.271+/-15.975 χ^2/NDF : 122.7/104

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 125.792 $\pm$ 0.025 χ^2 /NDF: 1347121.7/25

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 125.402 $\pm$ 0.024 χ^2 /NDF: 2209737.3/30

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

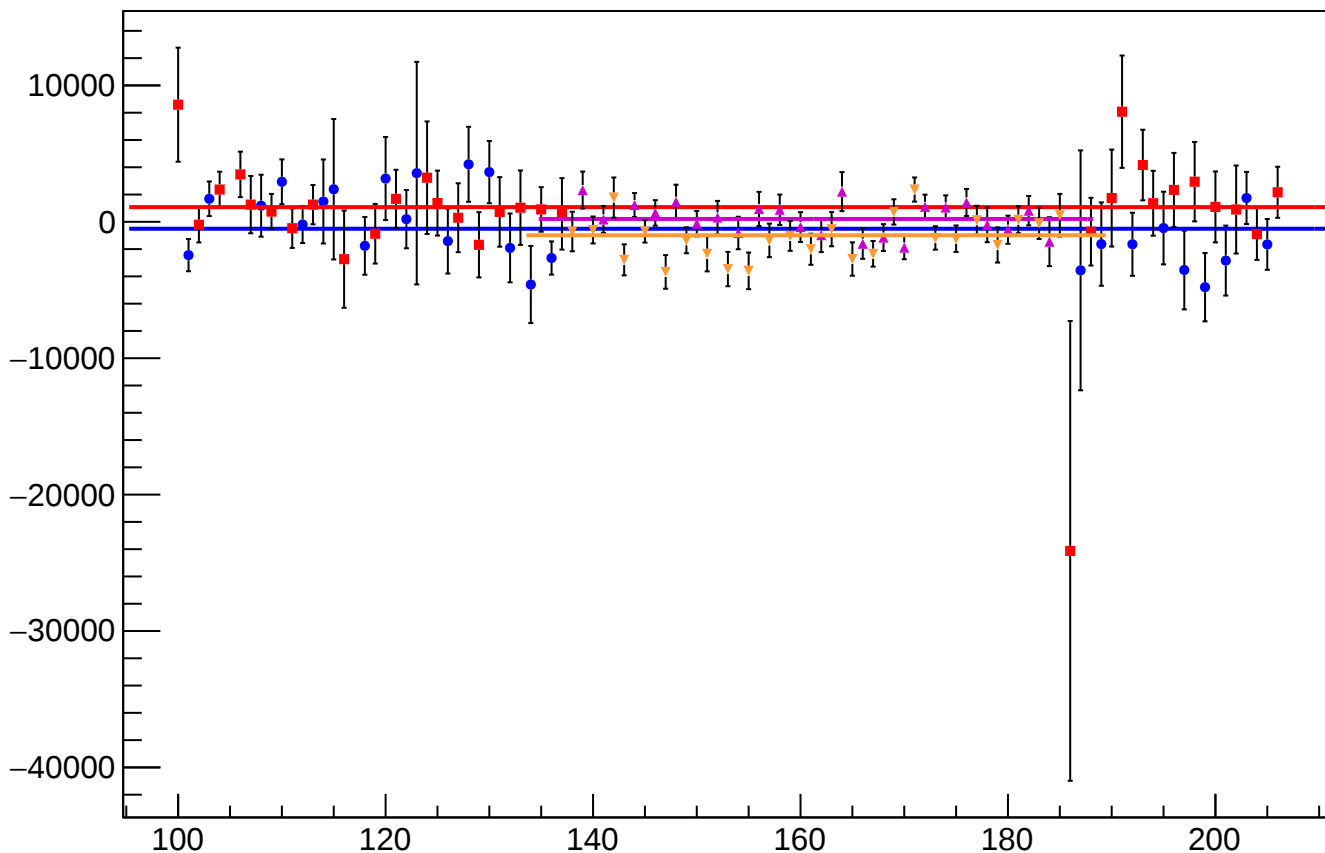
Right: 125.584 $\pm$ 0.017 χ^2 /NDF: 3556984.4/56

In: 125.448 $\pm$ 0.016 χ^2 /NDF: 1848821.8/48

Out: 124.847 $\pm$ 0.016 χ^2 /NDF: 2750422.1/55

All: 125.133 $\pm$ 0.011 χ^2 /NDF: 4599950.0/104

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -507.773+/-406.579 χ^2/NDF : 32.6/25

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 1078.961+/-379.154 χ^2/NDF : 21.5/30

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

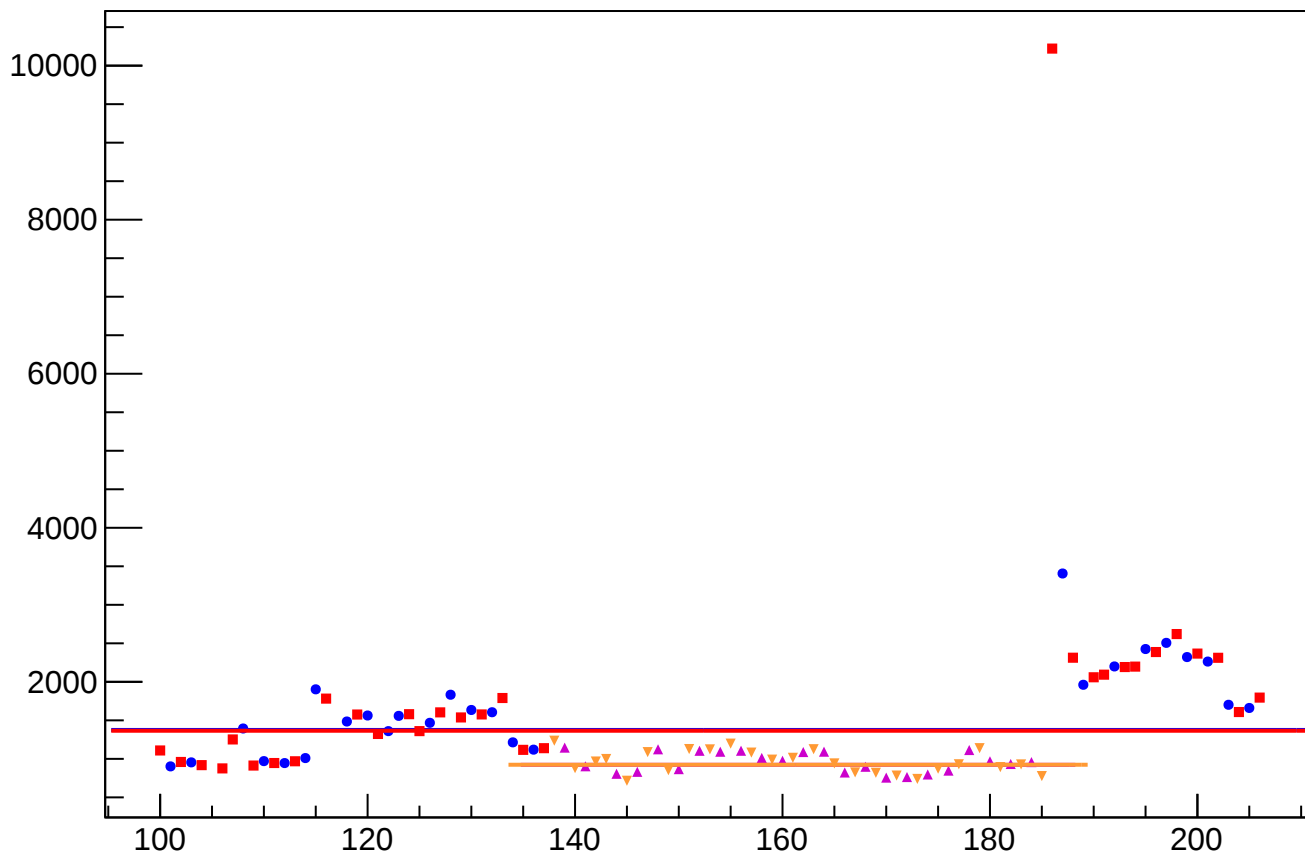
Right: 340.909+/-277.291 χ^2/NDF : 62.2/56

In: 44.760+/-195.721 χ^2/NDF : 60.7/48

Out: -470.510+/-189.002 χ^2/NDF : 90.9/55

All: -221.871+/-135.958 χ^2/NDF : 155.2/104

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1375.198+/-0.287 χ^2/NDF : 2803769.1/25

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1365.124+/-0.268 χ^2/NDF : 4076631.4/30

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

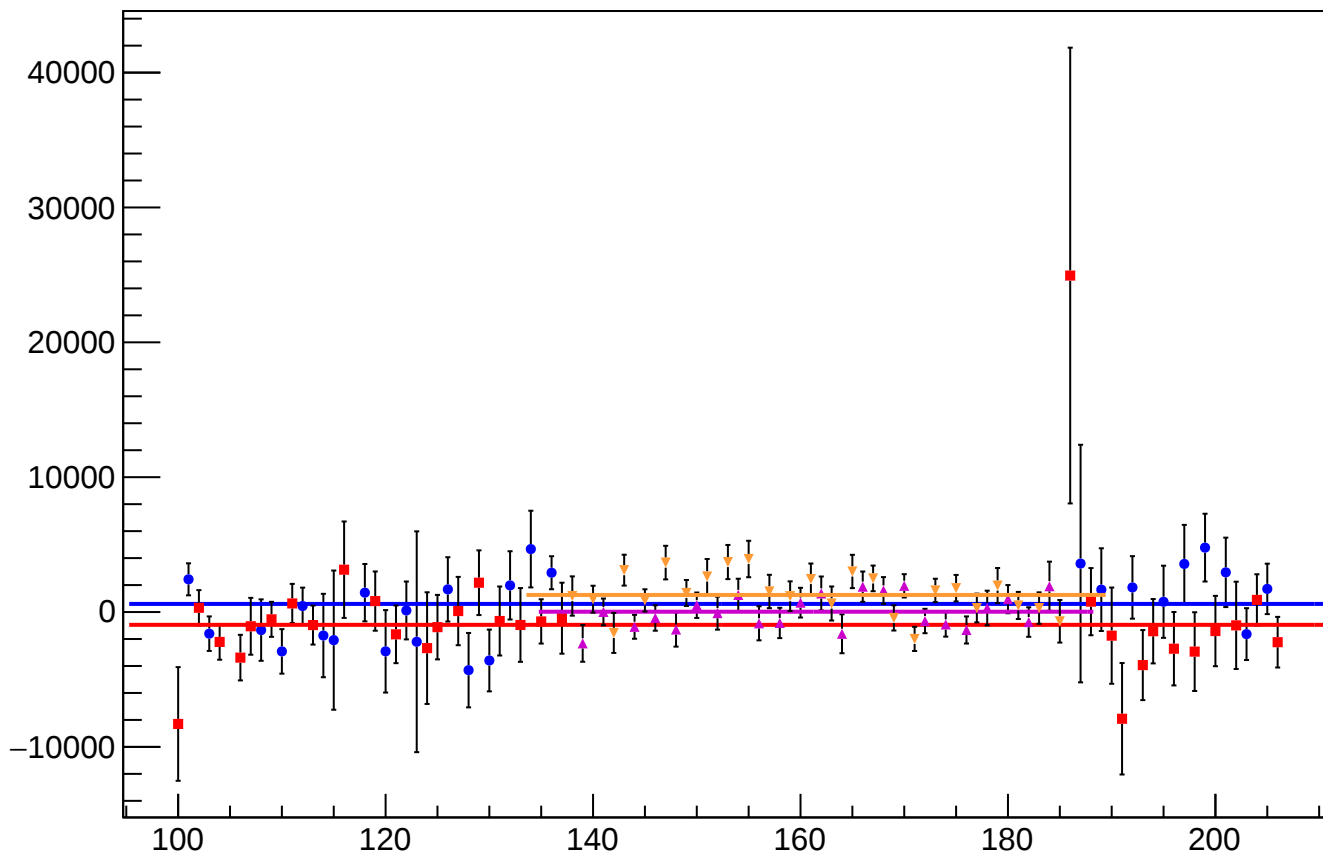
Right: 1369.810+/-0.196 χ^2/NDF : 6881057.2/56

In: 1027.209+/-0.138 χ^2/NDF : 5345516.6/48

Out: 1033.302+/-0.134 χ^2/NDF : 6957701.4/55

All: 1030.362+/-0.096 χ^2/NDF : 12304221.1/111

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 602.317+/-408.406 χ^2/NDF : 32.6/25

Left Out: 1267.344+/-220.133 χ^2/NDF :44.9/24

Right Out: -949.353+/-381.006 χ^2/NDF : 21.8/30

Left In: 23.478+/-225.490 χ^2/NDF :27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

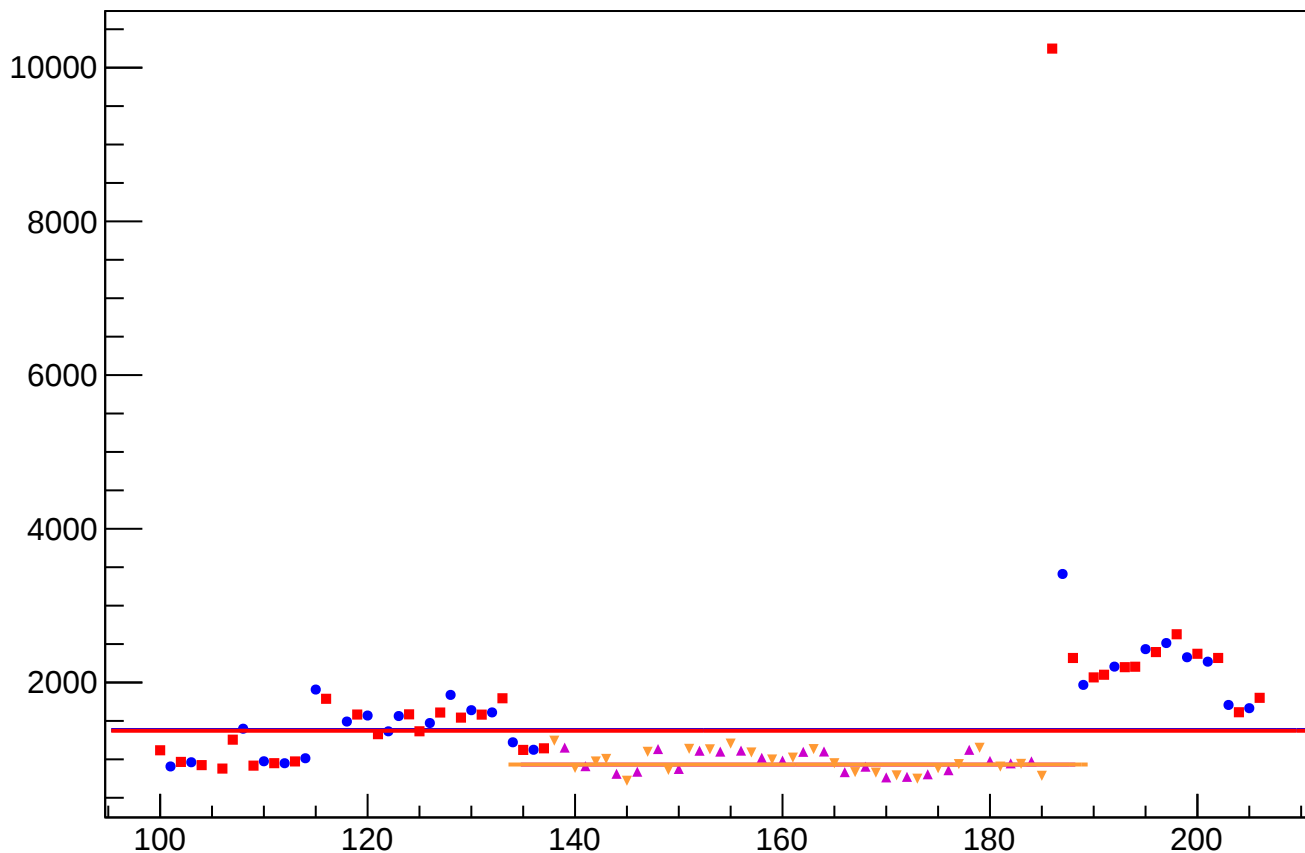
Right: -227.310+/-278.595 χ^2/NDF : 62.2/56

In: 158.707+/-197.401 χ^2/NDF :61.3/48

Out: 712.568+/-190.606 χ^2/NDF :92.1/55

All: 445.334+/-137.118 χ^2/NDF : 157.5/104

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1381.910+/-0.289 χ^2/NDF : 2787460.0/25

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1372.184+/-0.269 χ^2/NDF : 4054383.4/30

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

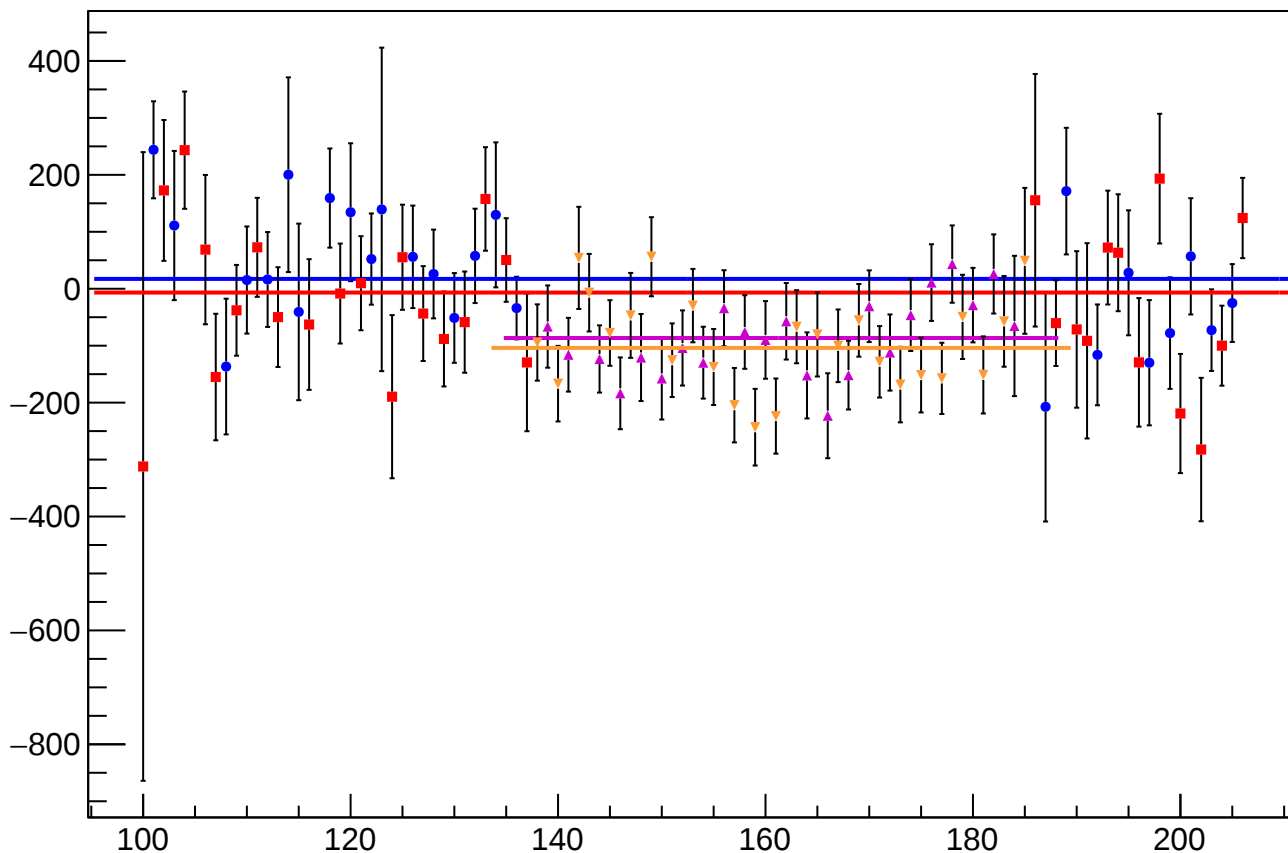
Right: 1376.710+/-0.197 χ^2/NDF : 6842449.9/56

In: 1036.720+/-0.140 χ^2/NDF : 5276212.3/48

Out: 1042.738+/-0.135 χ^2/NDF : 6878660.3/55

All: 1039.834+/-0.097 χ^2/NDF : 12155834.5/101

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 17.277 ± 18.371 $\chi^2/\text{NDF}: 27.6/25$

Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$

Right Out: -6.719 ± 17.614 $\chi^2/\text{NDF}: 41.4/30$

Left In: -86.542 ± 14.120 $\chi^2/\text{NDF}: 21.4/22$

Left: -95.520 ± 9.811 $\chi^2/\text{NDF}: 52.1/47$

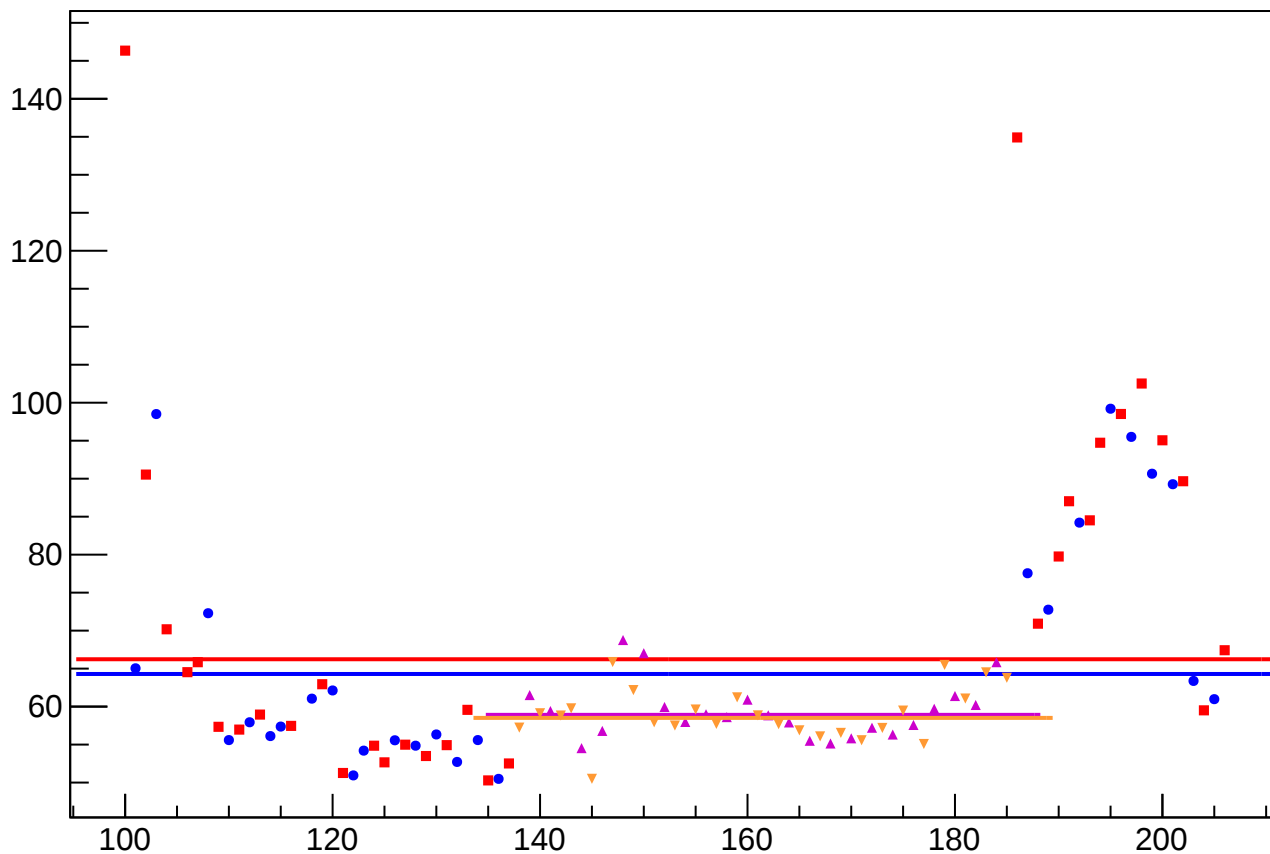
Right: 4.775 ± 12.714 $\chi^2/\text{NDF}: 69.9/56$

In: -47.987 ± 11.195 $\chi^2/\text{NDF}: 69.1/48$

Out: -67.463 ± 10.786 $\chi^2/\text{NDF}: 90.4/55$

All: -58.088 ± 7.767 $\chi^2/\text{NDF}: 161.1/104$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.293+/-0.013 χ^2/NDF : 1242256.4/25

Left Out: 58.513+/-0.010 χ^2/NDF :123221.6/24

Right Out: 66.232+/-0.012 χ^2/NDF : 1642518.6/30

Left In: 58.913+/-0.010 χ^2/NDF :109968.0/22

Left: 58.706+/-0.007 χ^2/NDF : 234021.7/47

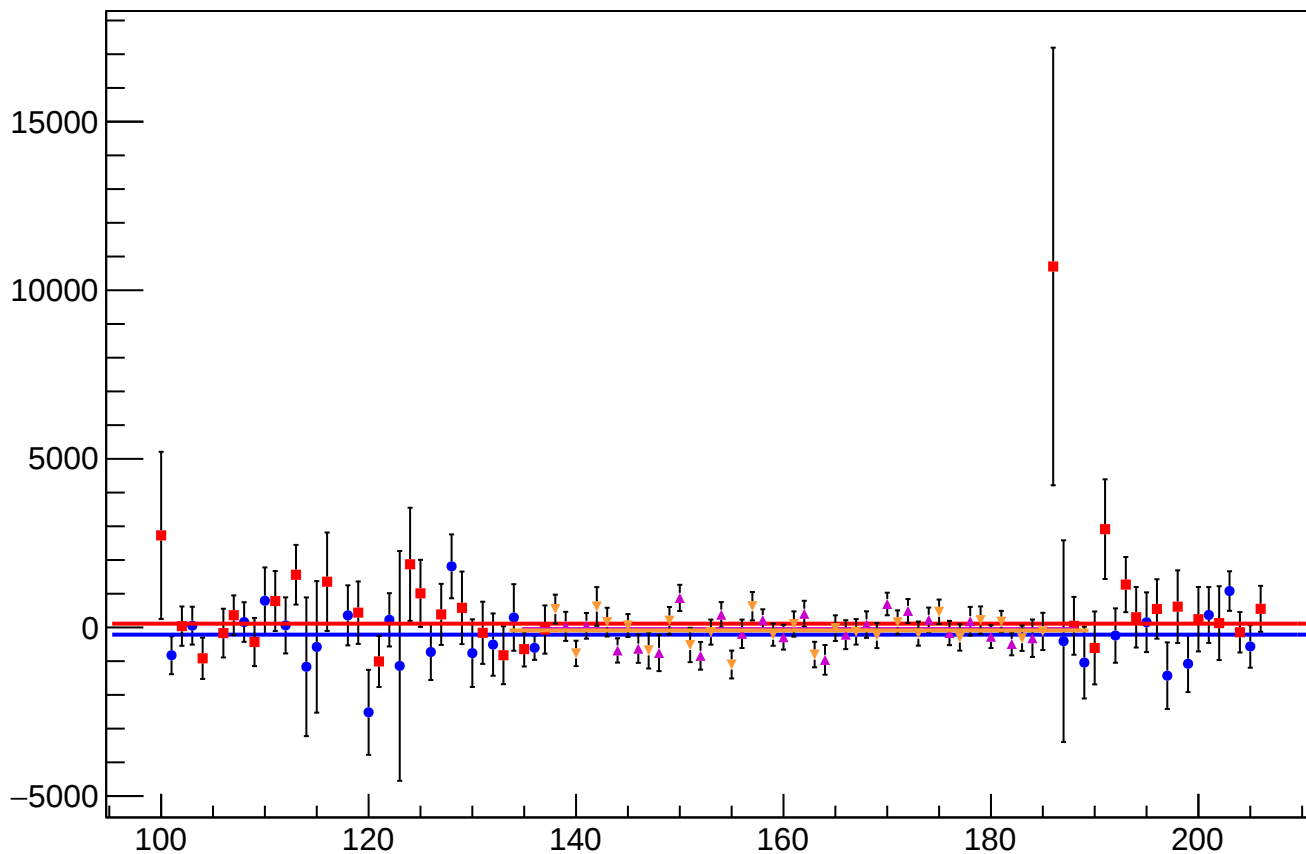
Right: 65.303+/-0.009 χ^2/NDF : 2896376.1/56

In: 60.911+/-0.008 χ^2/NDF :1460052.6/48

Out: 61.407+/-0.008 χ^2/NDF :2005806.9/55

All: 61.168+/-0.005 χ^2/NDF : 3467893.0/104

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -213.286 ± 153.329 χ^2/NDF : 23.2/25

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 112.166 ± 149.751 χ^2/NDF : 26.7/30

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

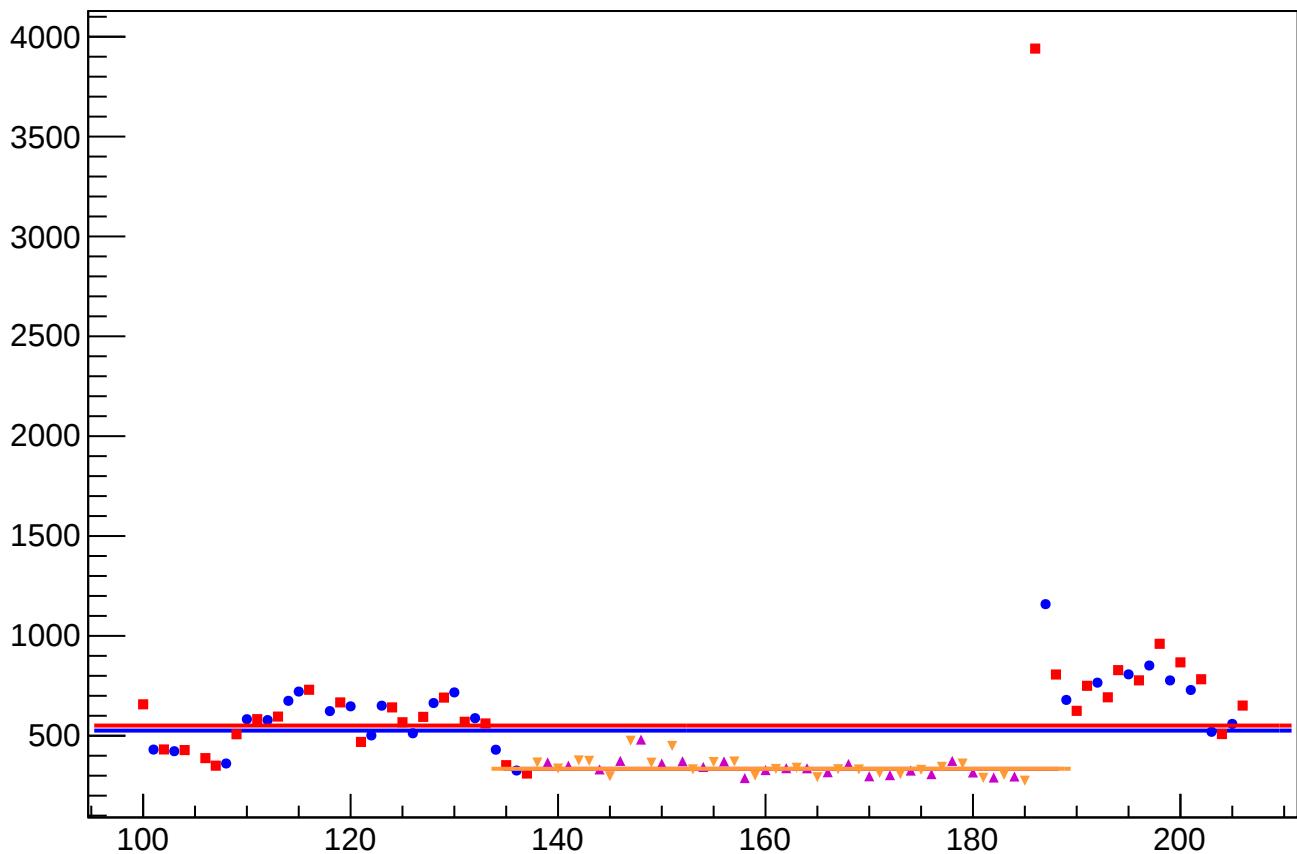
Right: -46.718 ± 107.133 χ^2/NDF : 52.2/56

In: -84.329 ± 71.307 χ^2/NDF : 59.4/48

Out: -44.380 ± 69.566 χ^2/NDF : 55.8/55

All: -63.861 ± 49.795 χ^2/NDF : 115.4/104

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 525.821+/-0.108 χ^2/NDF : 2181646.6/25

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 551.055+/-0.106 χ^2/NDF : 2974166.0/30

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

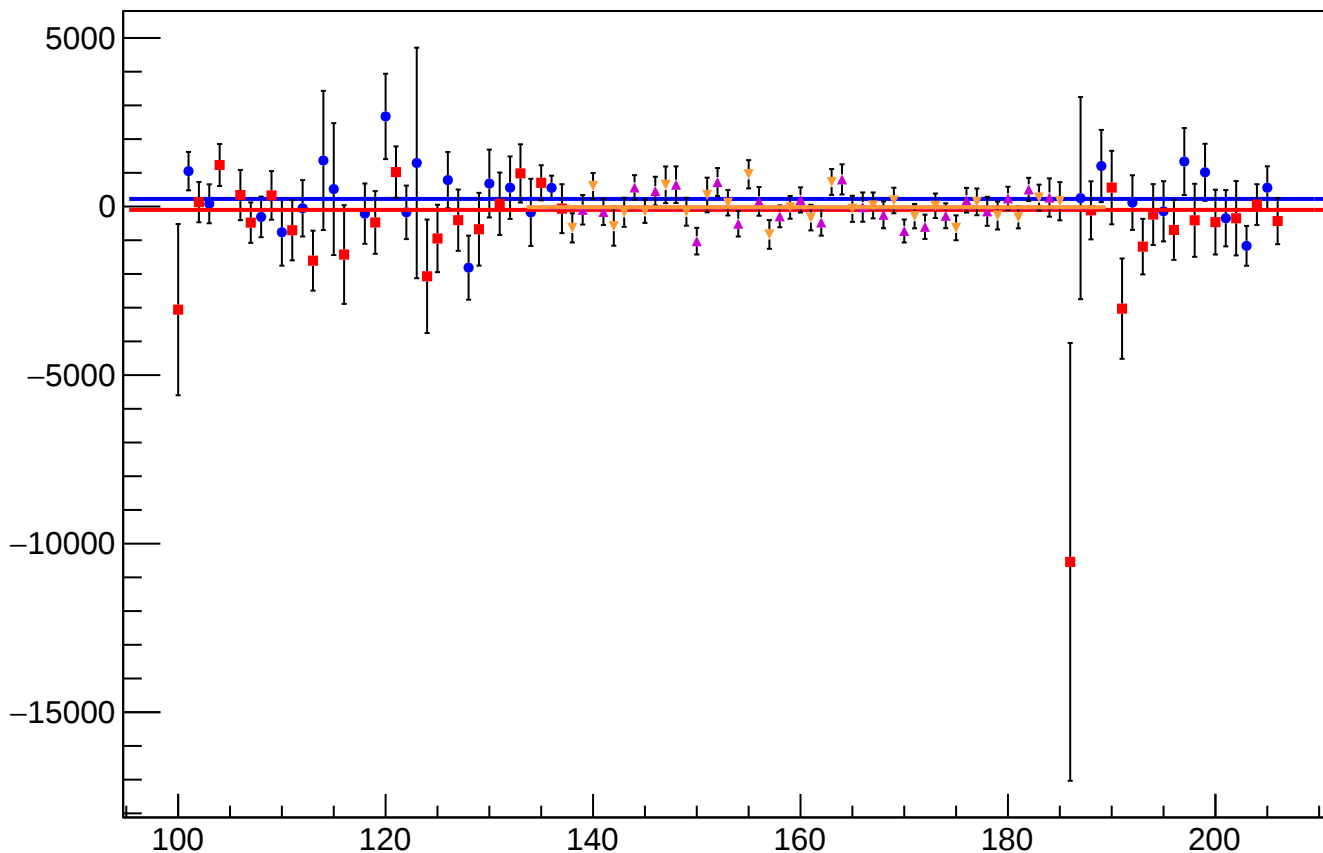
Right: 538.736+/-0.076 χ^2/NDF : 5183537.0/56

In: 375.602+/-0.050 χ^2/NDF : 5028306.3/48

Out: 381.428+/-0.049 χ^2/NDF : 6737872.3/55

All: 378.587+/-0.035 χ^2/NDF : 11773017.9/10

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 225.634+/-154.912 χ^2/NDF : 24.5/25

Left Out: -20.895+/-79.812 χ^2/NDF :27.2/24

Right Out: -99.369+/-151.323 χ^2/NDF : 29.7/30

Left In: -31.800+/-81.839 χ^2/NDF :34.0/22

Left: -26.211+/-57.139 χ^2/NDF : 61.3/47

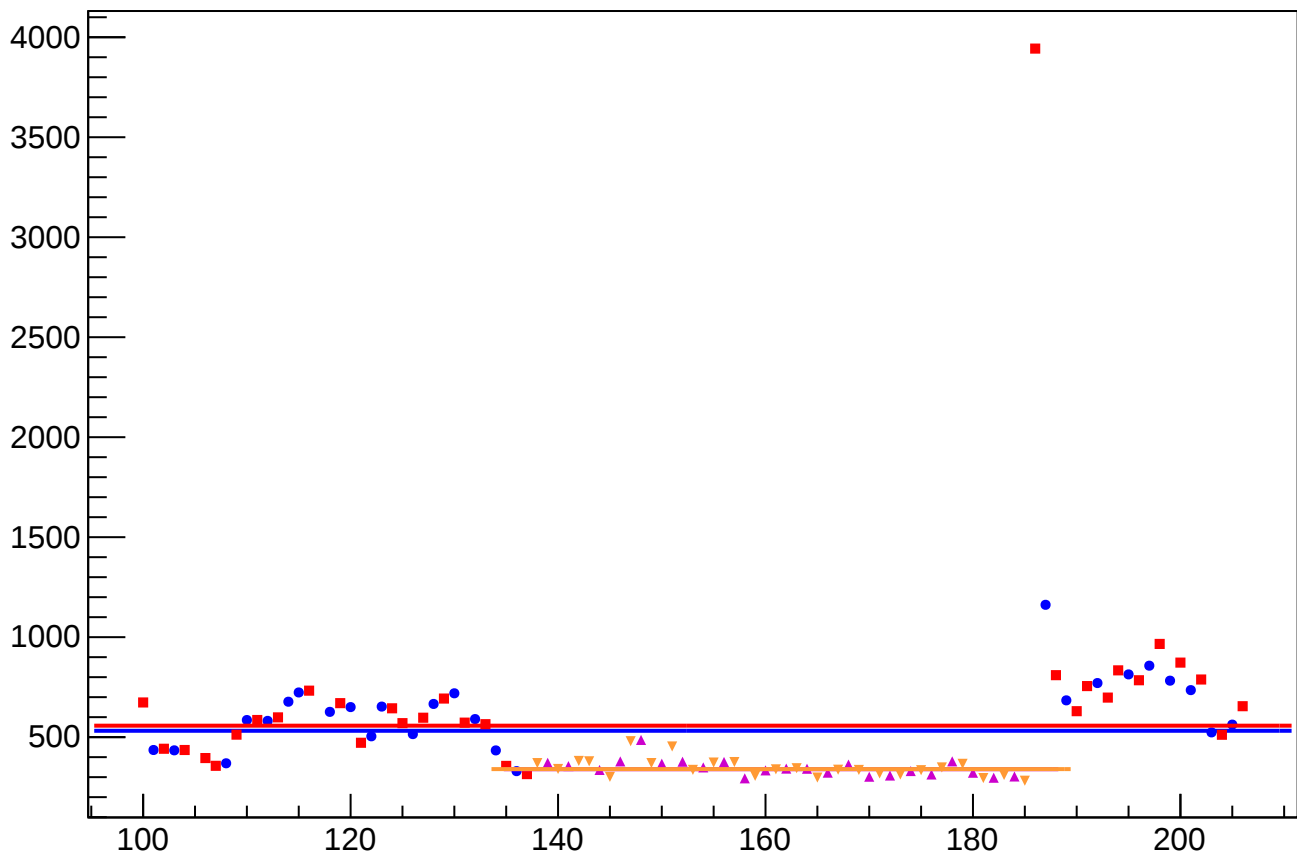
Right: 59.324+/-108.248 χ^2/NDF : 56.5/56

In: 24.371+/-72.362 χ^2/NDF :60.7/48

Out: -37.974+/-70.595 χ^2/NDF :57.2/55

All: -7.572+/-50.531 χ^2/NDF : 118.2/104

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 531.920 $\pm$ 0.110 χ^2 /NDF: 2125727.2/25

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 557.425 $\pm$ 0.107 χ^2 /NDF: 2909916.4/30

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

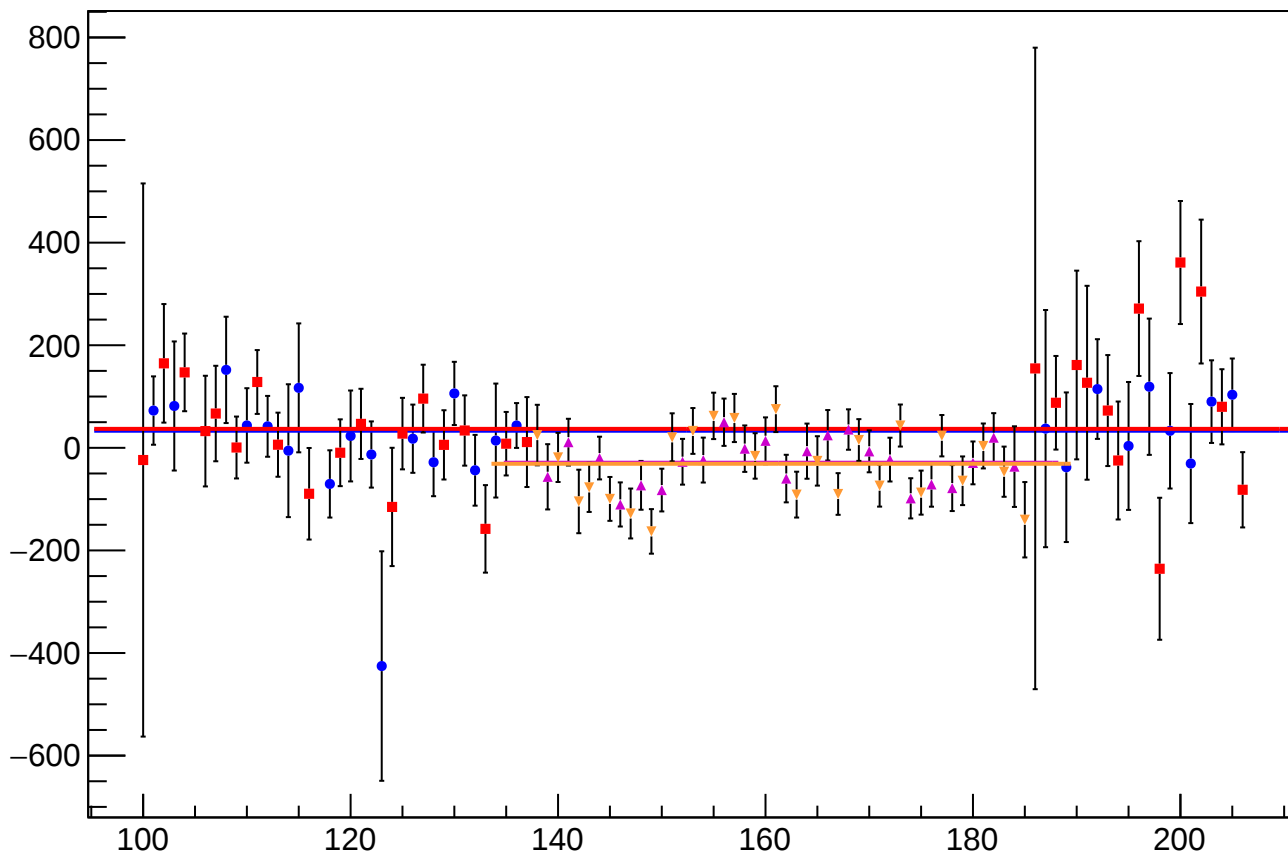
Right: 544.971 $\pm$ 0.077 χ^2 /NDF: 5063384.6/56

In: 381.580 $\pm$ 0.051 χ^2 /NDF: 4914940.6/48

Out: 387.505 $\pm$ 0.050 χ^2 /NDF: 6602038.5/55

All: 384.616 $\pm$ 0.036 χ^2 /NDF: 11523849.5/100

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 33.368 $\pm$ 15.950 χ^2 /NDF: 16.4/25

Left Out: -31.063 $\pm$ 9.170 χ^2 /NDF:52.6/24

Right Out: 36.966 $\pm$ 15.370 χ^2 /NDF: 39.5/30

Left In: -29.055 $\pm$ 9.449 χ^2 /NDF:22.4/22

Left: -30.089 $\pm$ 6.581 χ^2 /NDF: 75.1/47

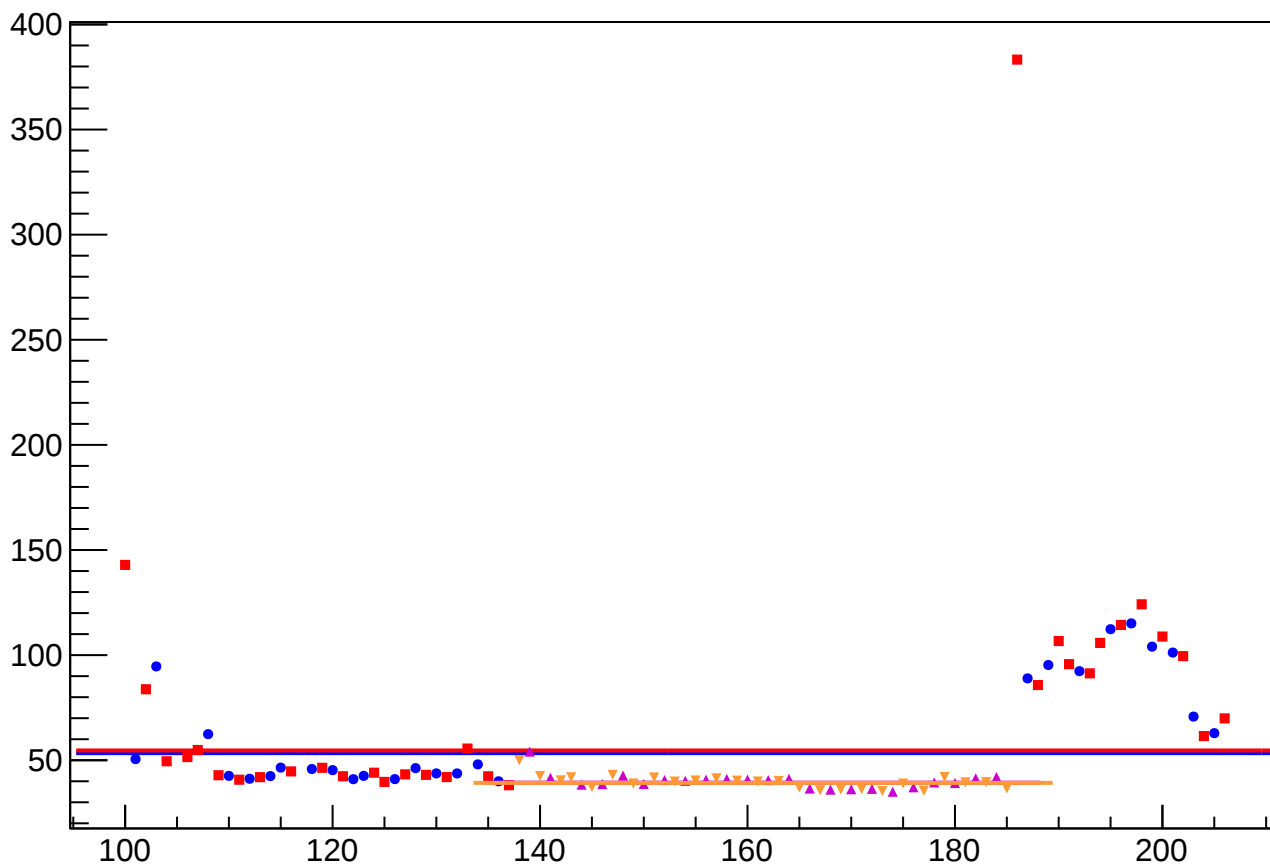
Right: 35.233 $\pm$ 11.067 χ^2 /NDF: 56.0/56

In: -12.837 $\pm$ 8.130 χ^2 /NDF:50.2/48

Out: -13.205 $\pm$ 7.875 χ^2 /NDF:106.5/55

All: -13.027 $\pm$ 5.656 χ^2 /NDF: 156.7/104

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 53.375+/-0.011 χ^2 /NDF: 3164864.5/25

Left Out: 39.235+/-0.006 χ^2 /NDF:201960.7/24

Right Out: 54.653+/-0.011 χ^2 /NDF: 4318430.5/30

Left In: 39.338+/-0.007 χ^2 /NDF:215671.3/22

Left: 39.285+/-0.005 χ^2 /NDF: 417755.0/47

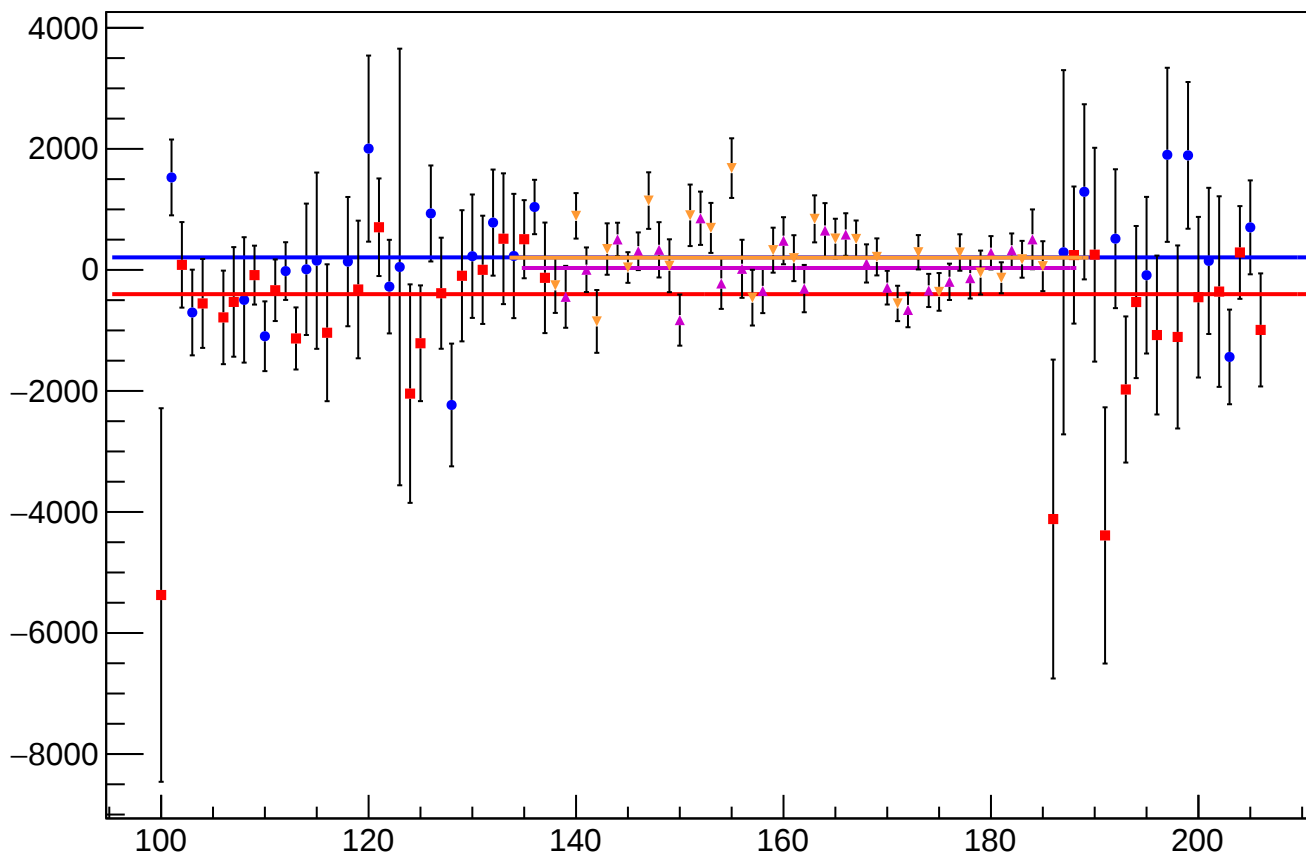
Right: 54.037+/-0.008 χ^2 /NDF: 7489957.1/56

In: 42.985+/-0.006 χ^2 /NDF:4527033.6/48

Out: 43.282+/-0.006 χ^2 /NDF:6004667.3/55

All: 43.138+/-0.004 χ^2 /NDF: 10533080.6/104

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 207.108 $\pm$ 168.858 χ^2 /NDF: 33.0/25

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -400.628 $\pm$ 160.969 χ^2 /NDF: 22.1/30

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

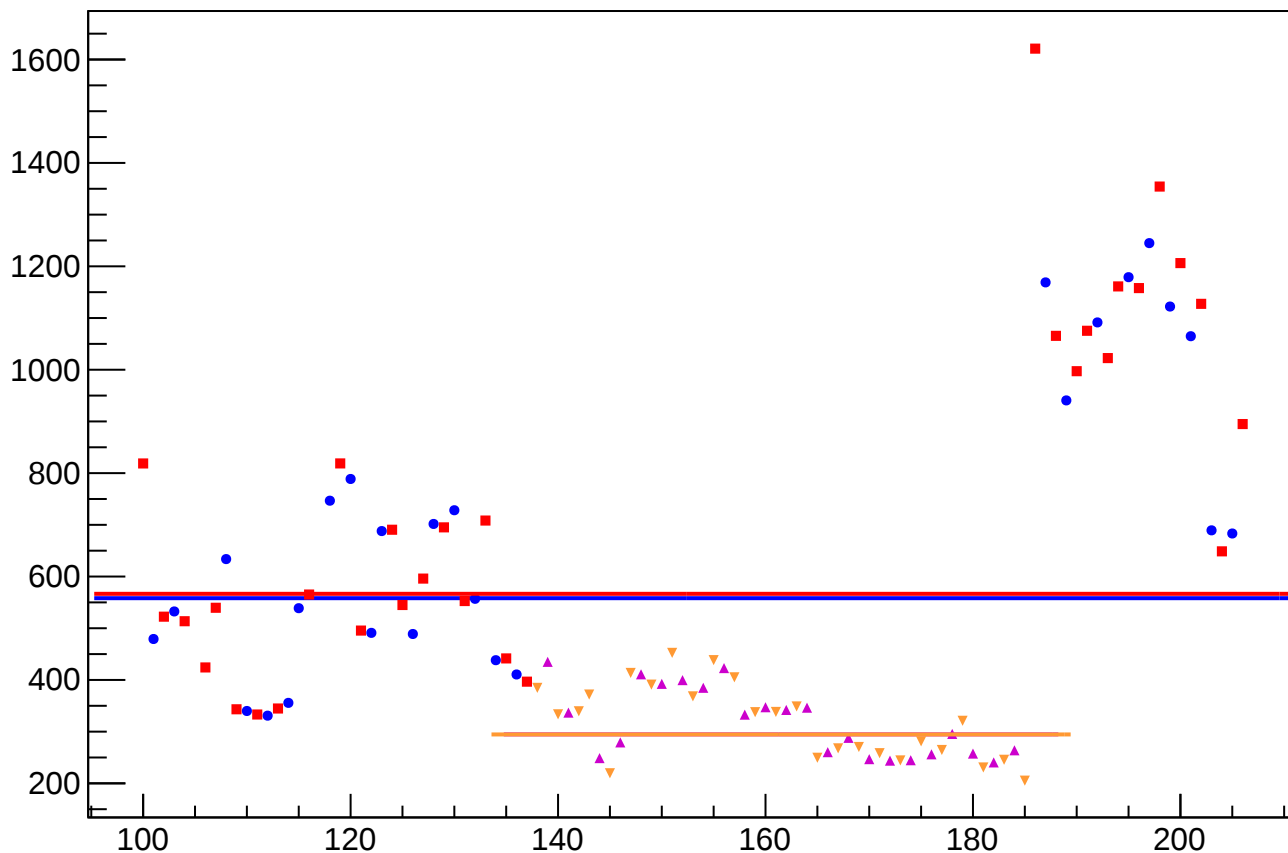
Right: -111.288 $\pm$ 116.512 χ^2 /NDF: 61.9/56

In: 58.620 $\pm$ 66.308 χ^2 /NDF:67.3/48

Out: 105.490 $\pm$ 64.521 χ^2 /NDF:78.7/55

All: 82.695 $\pm$ 46.242 χ^2 /NDF: 146.2/104

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 558.127+/-0.119 χ^2/NDF : 3798657.9/25

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 566.577+/-0.114 χ^2/NDF : 5262791.8/30

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

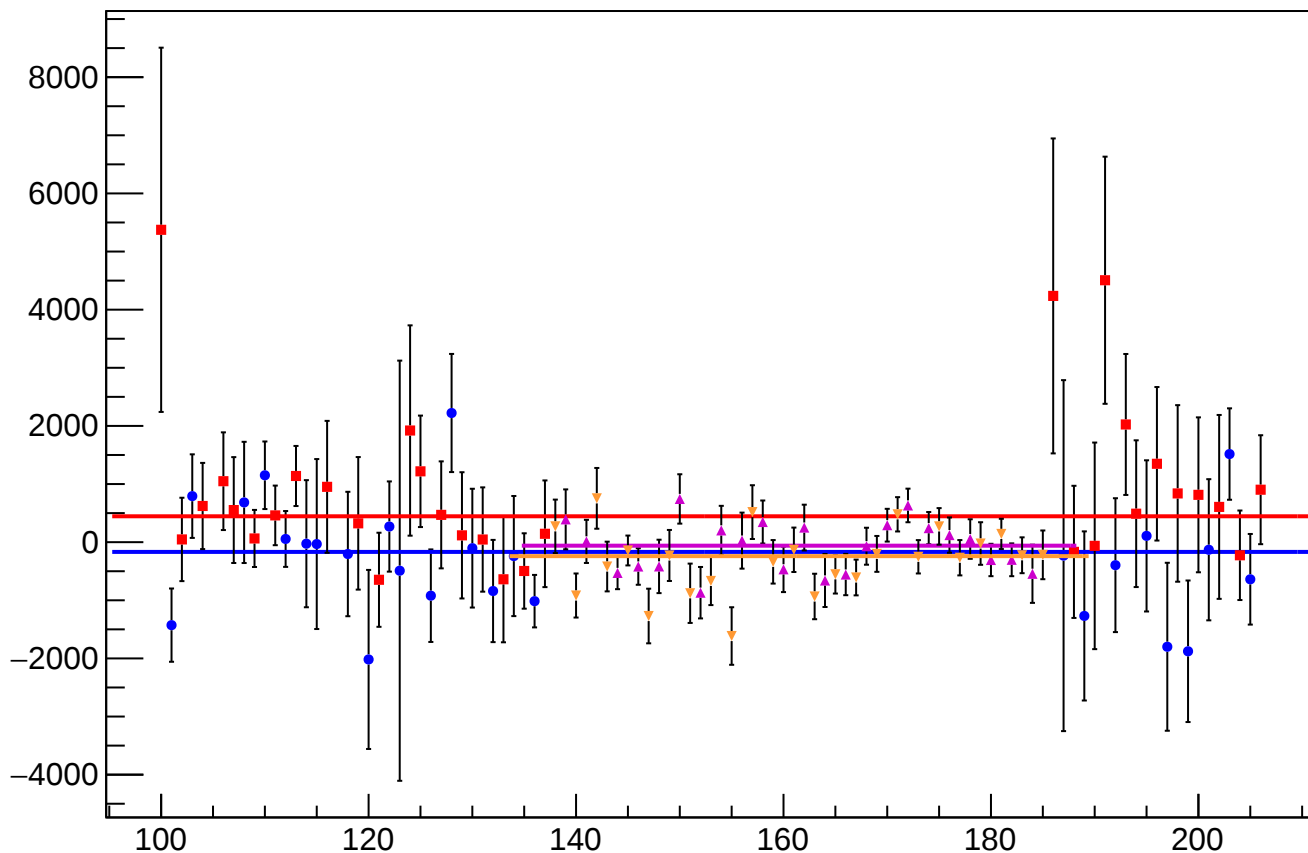
Right: 562.554+/-0.082 χ^2/NDF : 9064073.9/56

In: 335.340+/-0.047 χ^2/NDF : 9212189.4/48

Out: 338.289+/-0.046 χ^2/NDF : 11735887.0/55

All: 336.855+/-0.033 χ^2/NDF : 20950109.5/100

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -167.536 $\pm$ 169.858 χ^2 /NDF: 33.0/25

Left Out: -240.357 $\pm$ 71.100 χ^2 /NDF:42.9/24

Right Out: 445.333 $\pm$ 162.474 χ^2 /NDF: 21.9/30

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

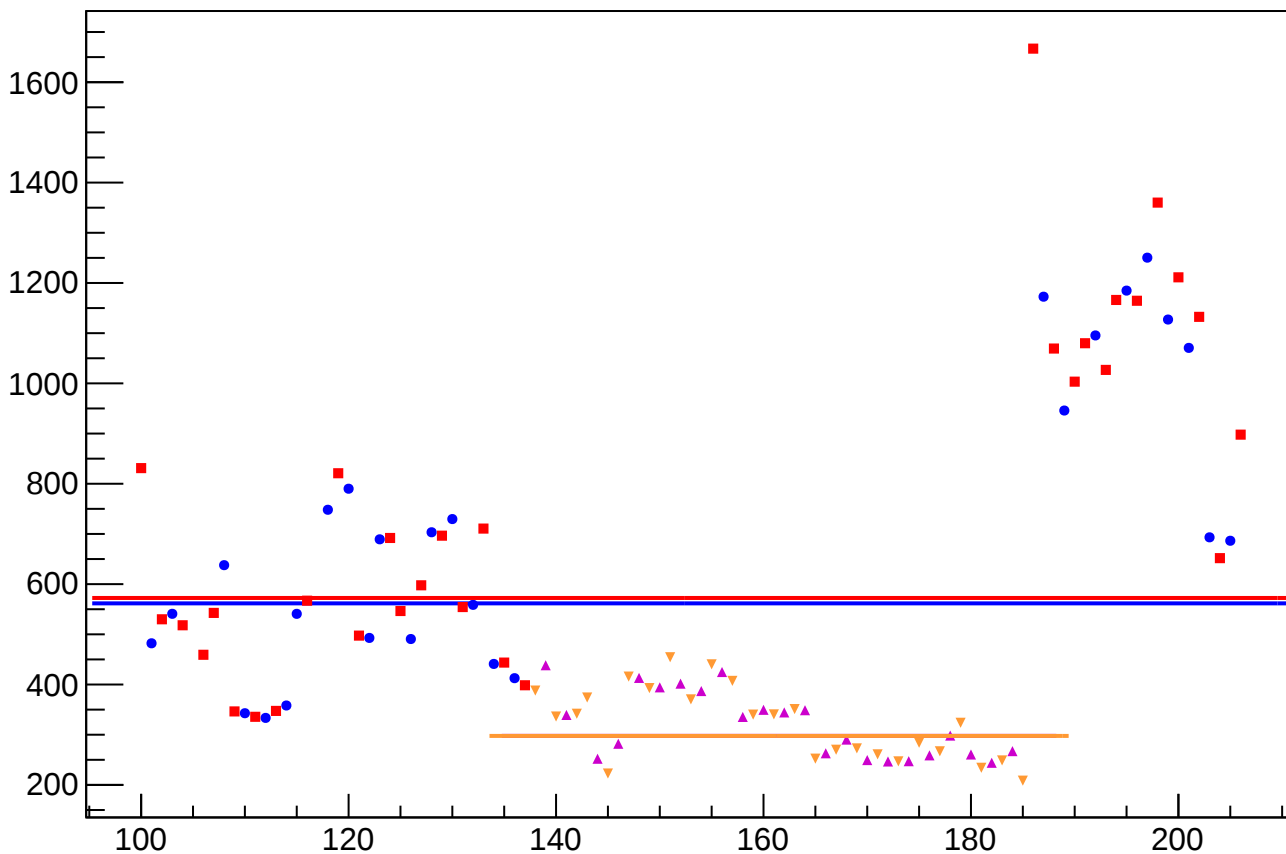
Right: 152.509 $\pm$ 117.410 χ^2 /NDF: 61.7/56

In: -76.962 $\pm$ 66.904 χ^2 /NDF:64.2/48

Out: -130.150 $\pm$ 65.137 χ^2 /NDF:79.8/55

All: -104.268 $\pm$ 46.671 χ^2 /NDF: 144.3/104

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 561.692 $\pm$ 0.120 χ^2/NDF : 3779923.8/25

Left Out: 297.613 $\pm$ 0.050 χ^2/NDF : 1637757.8/24

Right Out: 572.448 $\pm$ 0.115 χ^2/NDF : 5209067.7/30

Left In: 297.699 $\pm$ 0.051 χ^2/NDF : 1266306.2/22

Left: 297.655 $\pm$ 0.036 χ^2/NDF : 2904065.4/47

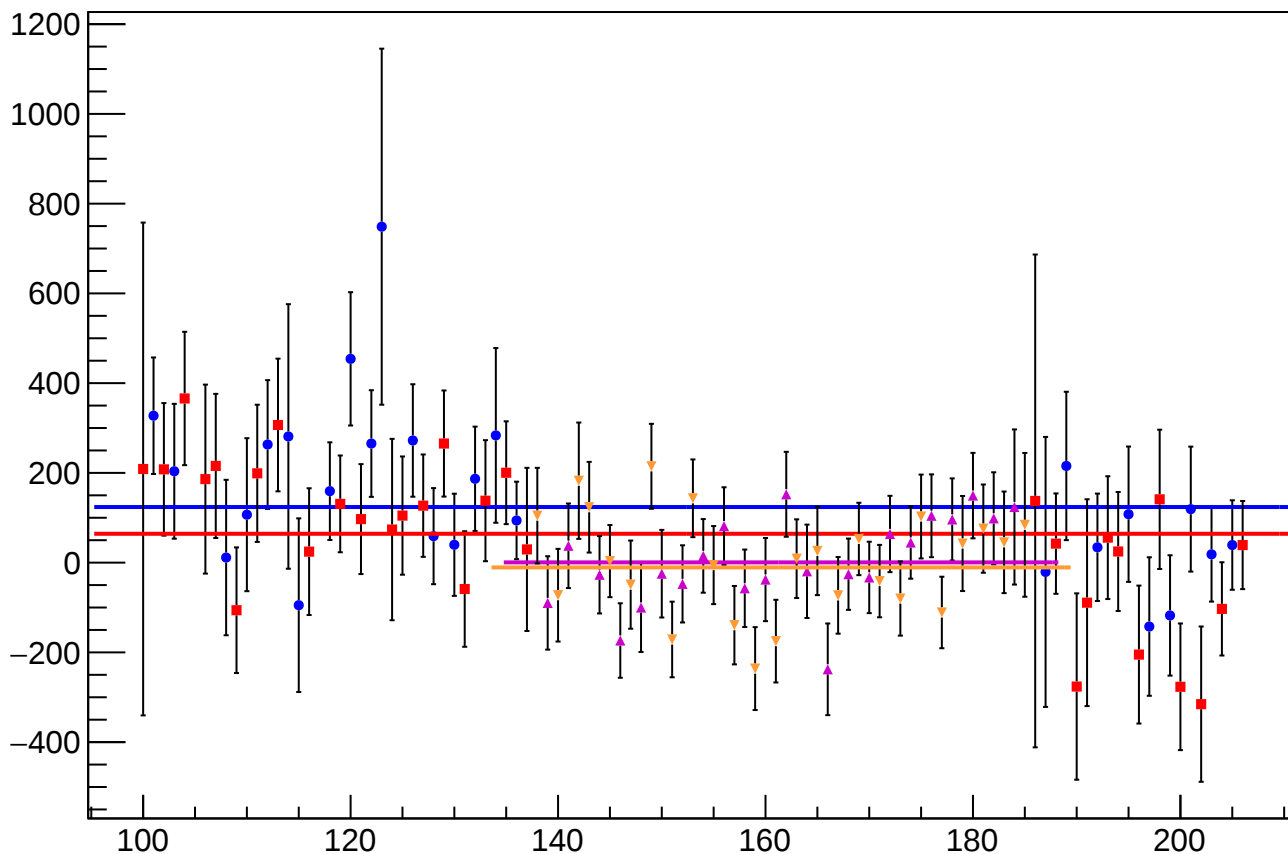
Right: 567.309 $\pm$ 0.083 χ^2/NDF : 8993179.3/56

In: 338.656 $\pm$ 0.047 χ^2/NDF : 9127788.5/48

Out: 341.785 $\pm$ 0.046 χ^2/NDF : 11649811.7/55

All: 340.262 $\pm$ 0.033 χ^2/NDF : 20779847.0/103

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 123.926 $\pm$ 26.454 χ^2 /NDF: 27.1/25

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 64.317 $\pm$ 25.403 χ^2 /NDF: 37.7/30

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

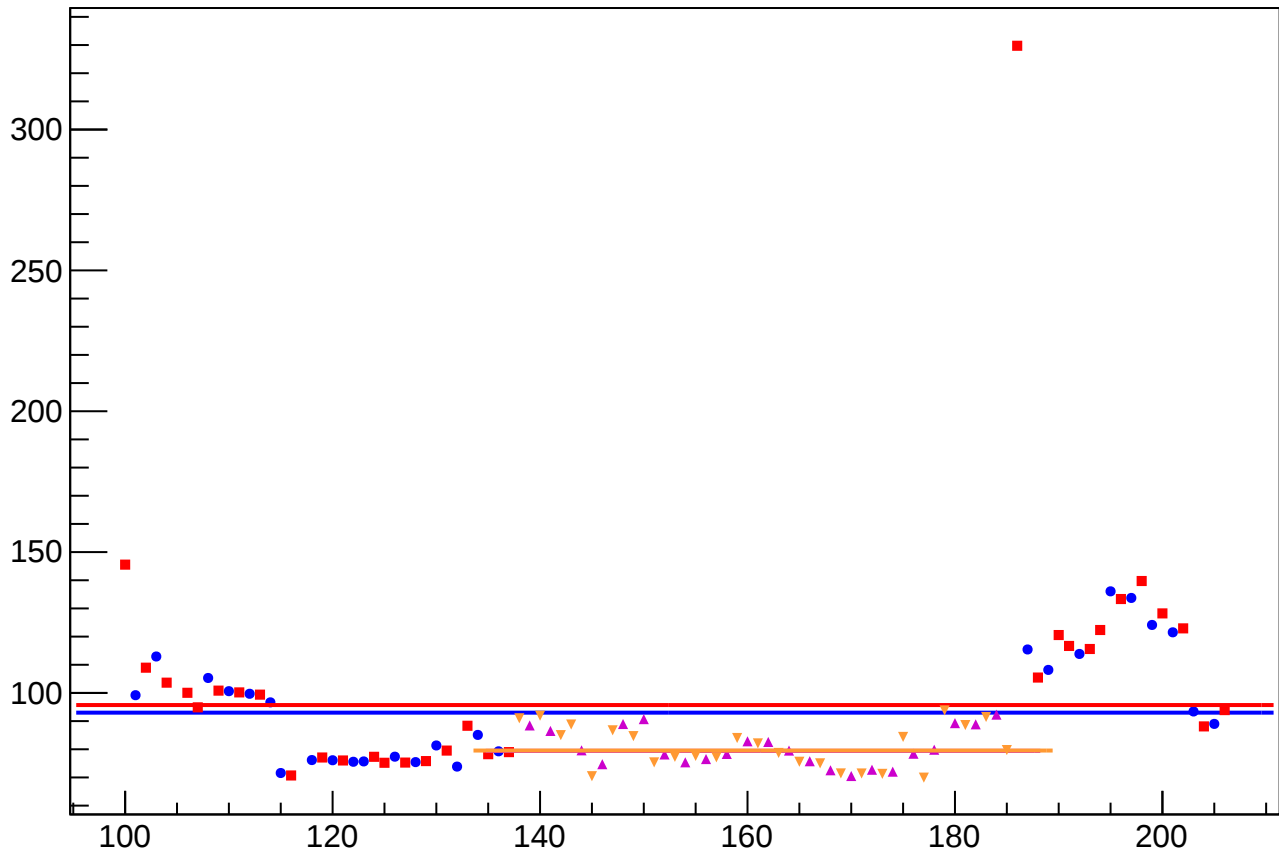
Right: 92.914 $\pm$ 18.323 χ^2 /NDF: 67.4/56

In: 42.818 $\pm$ 15.481 χ^2 /NDF:65.1/48

Out: 15.521 $\pm$ 15.012 χ^2 /NDF:79.7/55

All: 28.750 $\pm$ 10.777 χ^2 /NDF: 146.4/104

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 93.002 $\pm$ 0.019 χ^2 /NDF: 1003470.3/25

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF:309075.2/24

Right Out: 95.702 $\pm$ 0.018 χ^2 /NDF: 1499951.8/30

Left In: 79.436 $\pm$ 0.013 χ^2 /NDF:212440.1/22

Left: 79.495 $\pm$ 0.009 χ^2 /NDF: 521552.2/47

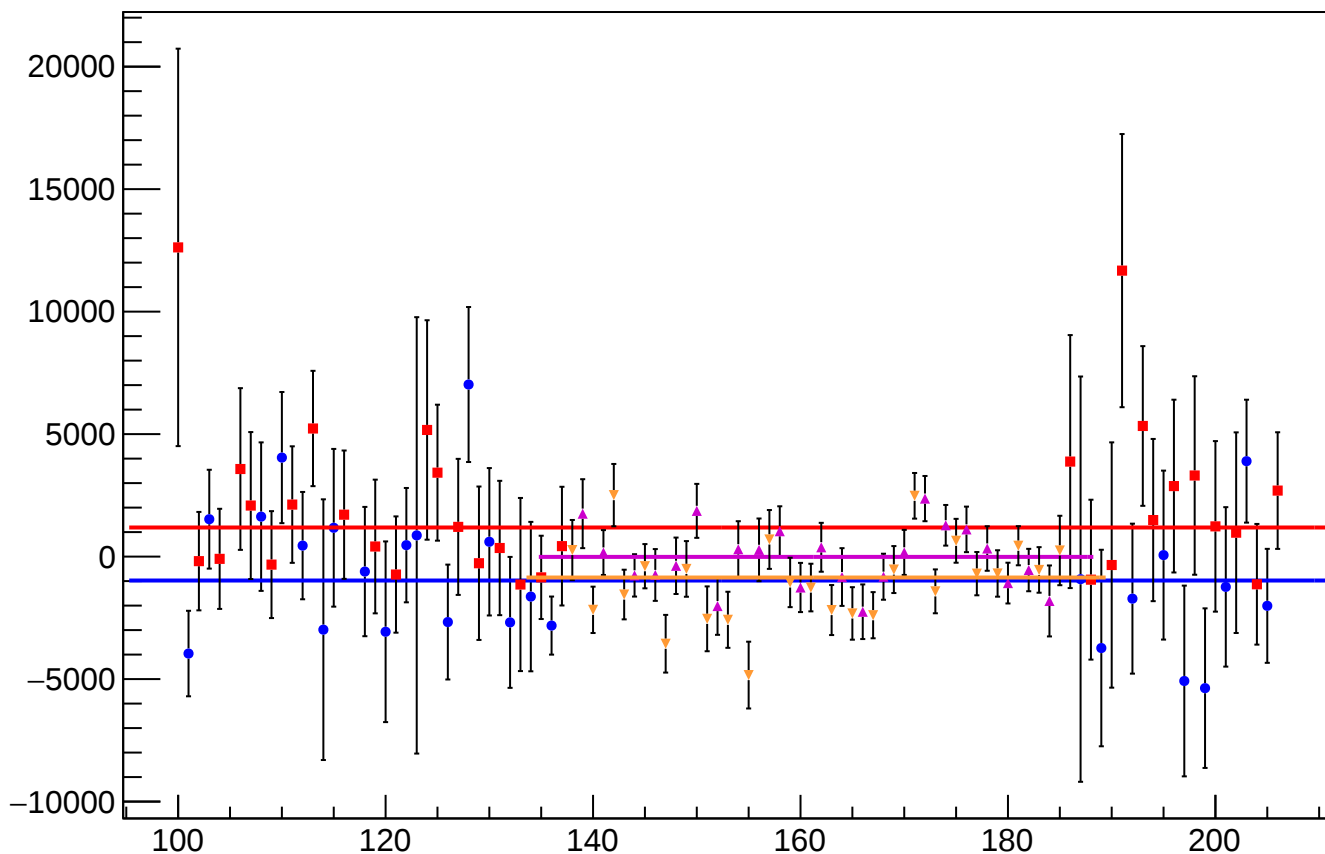
Right: 94.407 $\pm$ 0.013 χ^2 /NDF: 2514268.5/56

In: 84.082 $\pm$ 0.011 χ^2 /NDF:1561707.7/48

Out: 85.192 $\pm$ 0.011 χ^2 /NDF:2335173.0/55

All: 84.654 $\pm$ 0.008 χ^2 /NDF: 3902177.9/104

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -976.235+/-513.471 χ^2/NDF : 28.1/25

Left Out: -854.130+/-204.090 χ^2/NDF : 56.0/24

Right Out: 1188.281+/-507.378 χ^2/NDF : 19.3/30

Left In: -11.687+/-210.073 χ^2/NDF : 31.2/22

Left: -445.076+/-146.383 χ^2/NDF : 95.5/47

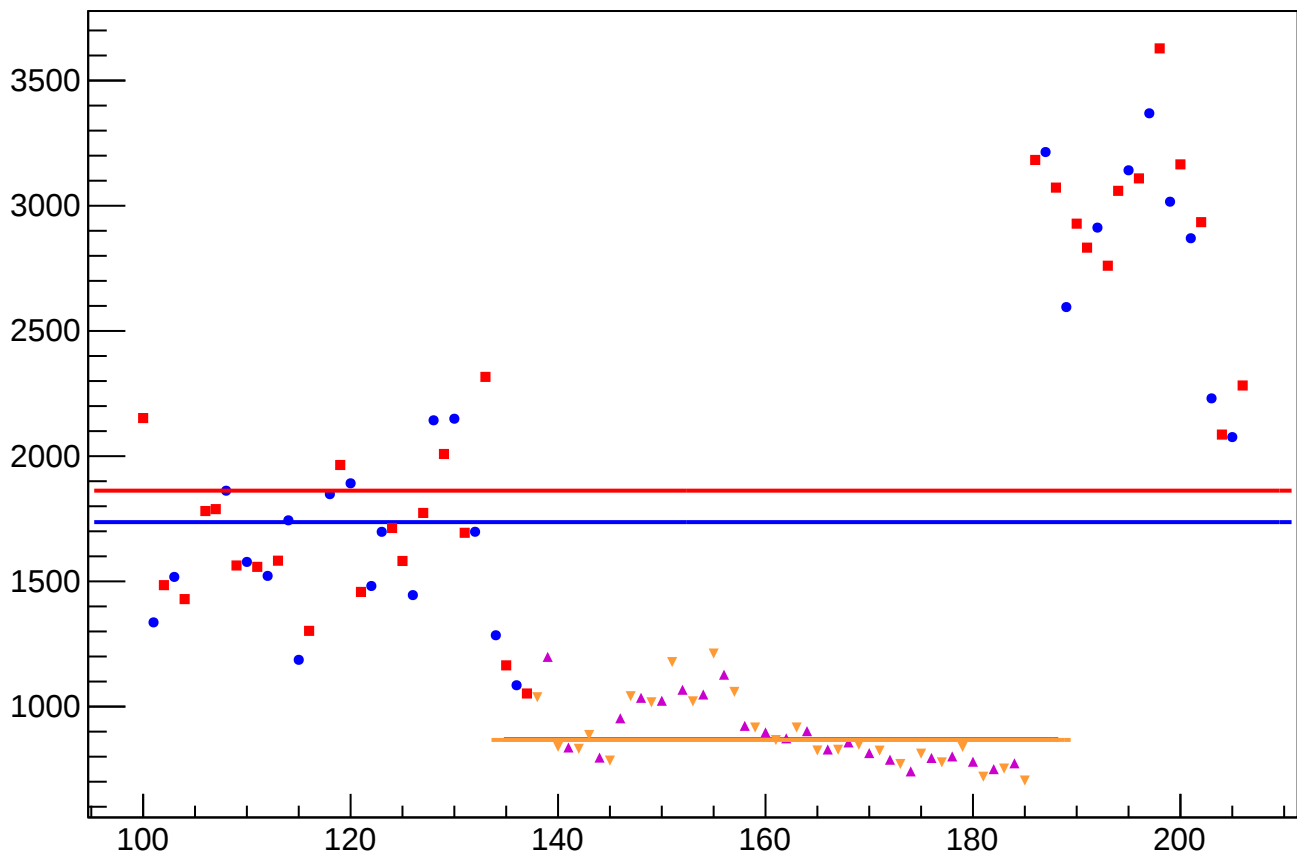
Right: 118.943+/-360.905 χ^2/NDF : 56.3/56

In: -149.986+/-194.430 χ^2/NDF : 62.3/48

Out: -569.689+/-189.346 χ^2/NDF : 89.2/55

All: -365.397+/-135.650 χ^2/NDF : 153.9/104

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1736.607 $\pm$ 0.363 χ^2 /NDF: 2803367.3/25

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1862.318 $\pm$ 0.359 χ^2 /NDF: 3142826.5/30

Left In: 869.569 $\pm$ 0.149 χ^2 /NDF: 582301.2/22

Left: 868.192 $\pm$ 0.104 χ^2 /NDF: 1244180.7/47

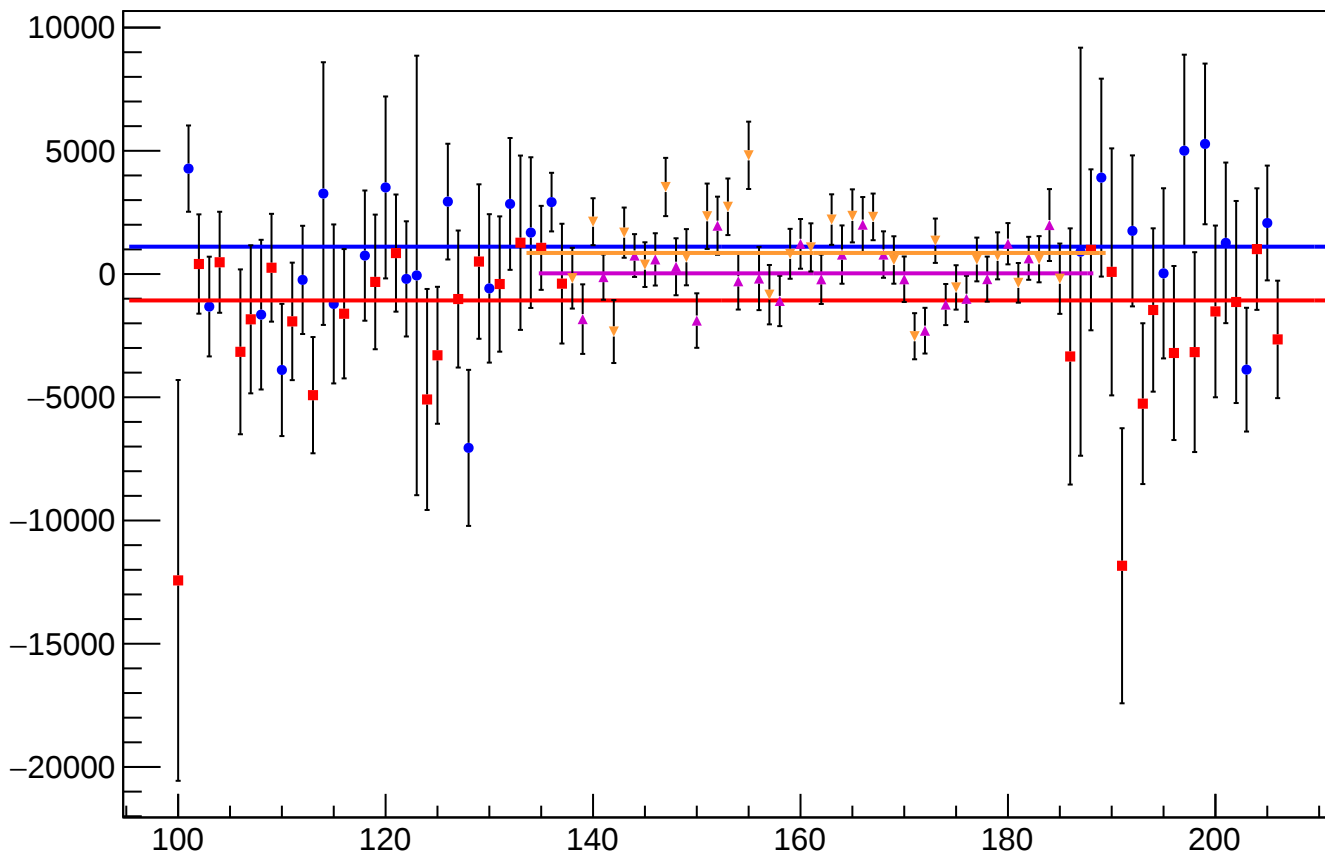
Right: 1800.213 $\pm$ 0.255 χ^2 /NDF: 6006848.5/56

In: 993.887 $\pm$ 0.137 χ^2 /NDF: 8270632.1/48

Out: 1005.523 $\pm$ 0.134 χ^2 /NDF: 10430545.8/55

All: 999.859 $\pm$ 0.096 χ^2 /NDF: 18704854.8/10

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1110.214 $\pm$ 514.400 χ^2/NDF : 28.6/25

Left Out: 855.664 $\pm$ 205.047 χ^2/NDF : 54.1/24

Right Out: -1071.136 $\pm$ 508.362 χ^2/NDF : 19.1/30

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

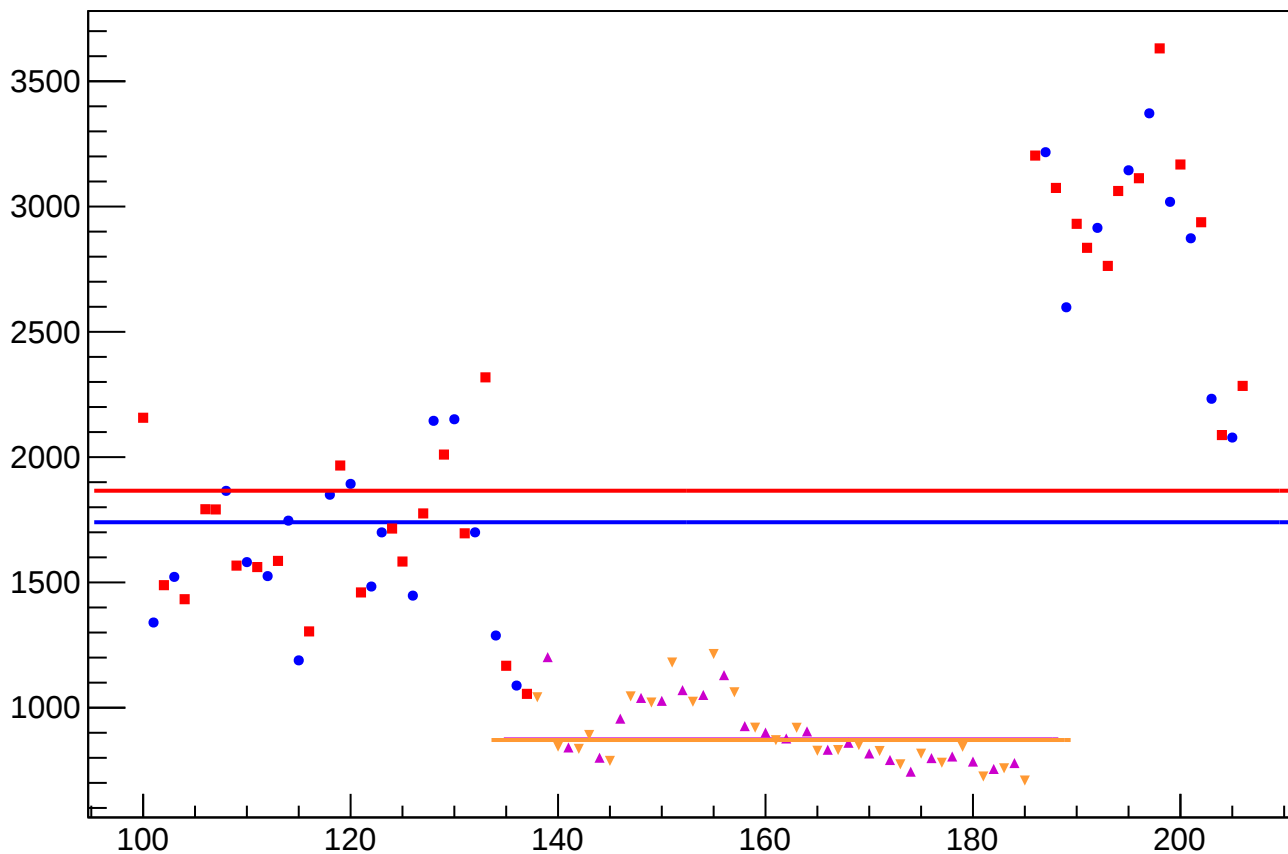
Right: 6.660 $\pm$ 361.582 χ^2/NDF : 56.8/56

In: 184.377 $\pm$ 195.242 χ^2/NDF : 62.1/48

Out: 586.056 $\pm$ 190.161 χ^2/NDF : 85.5/55

All: 390.512 $\pm$ 136.225 χ^2/NDF : 149.8/104

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1740.177+/-0.364 χ^2/NDF : 2792799.0/25

Left Out: 871.109+/-0.145 χ^2/NDF : 651751.1/24

Right Out: 1865.943+/-0.359 χ^2/NDF : 3134777.8/30

Left In: 873.675+/-0.149 χ^2/NDF : 573822.5/22

Left: 872.355+/-0.104 χ^2/NDF : 1225725.6/47

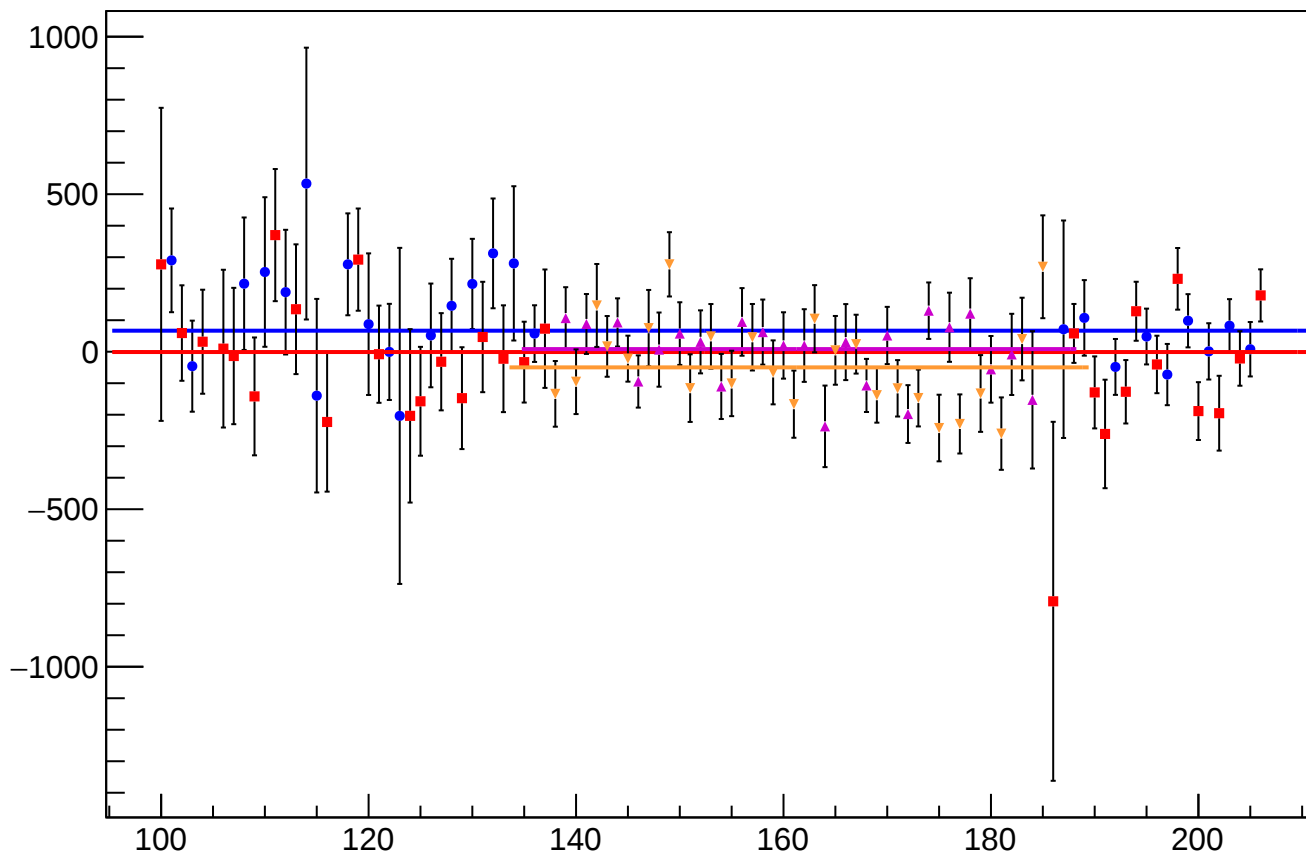
Right: 1803.803+/-0.256 χ^2/NDF : 5988058.9/56

In: 998.504+/-0.138 χ^2/NDF : 8224083.6/48

Out: 1010.312+/-0.134 χ^2/NDF : 10374053.0/55

All: 1004.563+/-0.096 χ^2/NDF : 18601890.7/100

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 66.732 ± 25.375 $\chi^2/\text{NDF}: 16.9/25$

Left Out: -49.717 ± 20.580 $\chi^2/\text{NDF}: 39.4/24$

Right Out: -1.006 ± 24.151 $\chi^2/\text{NDF}: 38.2/30$

Left In: 8.343 ± 21.271 $\chi^2/\text{NDF}: 22.0/22$

Left: -21.646 ± 14.791 $\chi^2/\text{NDF}: 65.3/47$

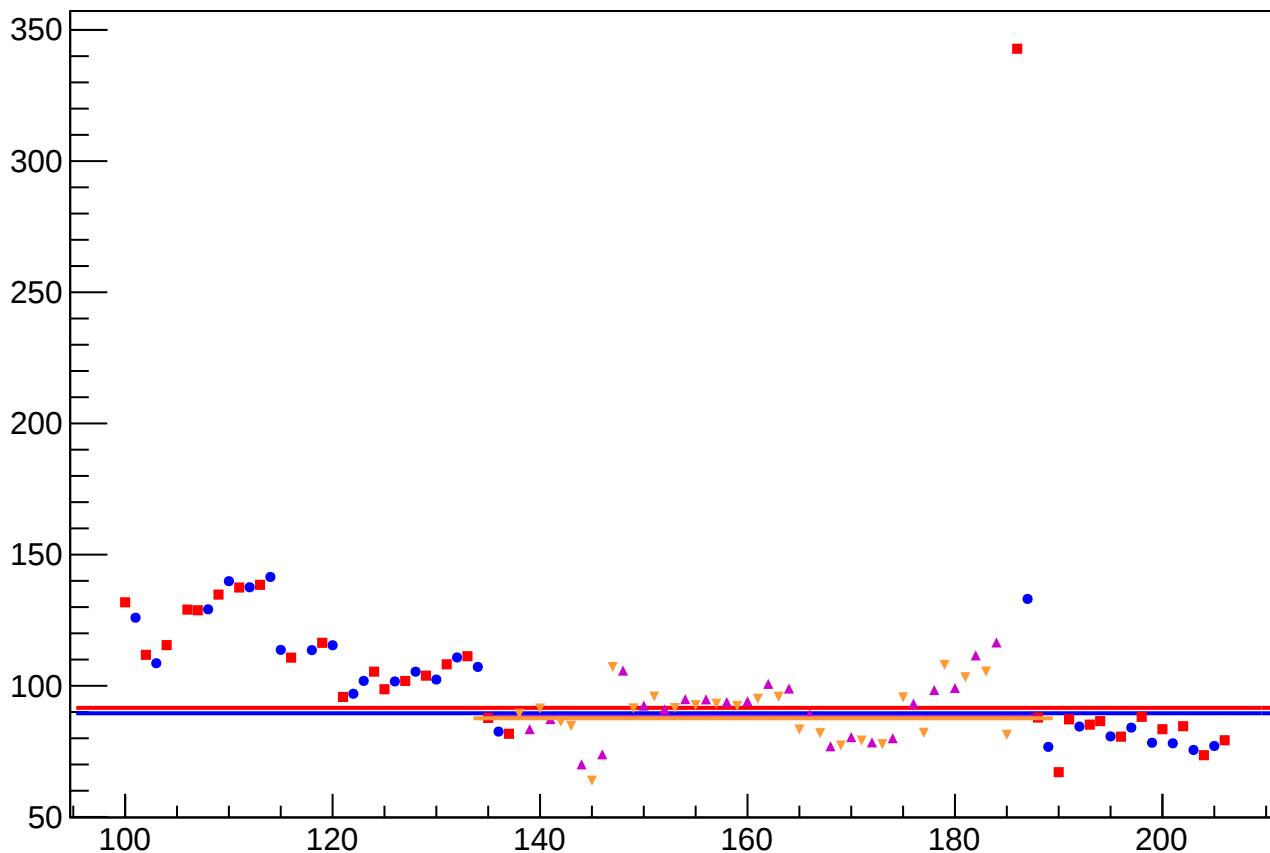
Right: 31.189 ± 17.494 $\chi^2/\text{NDF}: 58.9/56$

In: 32.440 ± 16.301 $\chi^2/\text{NDF}: 42.0/48$

Out: -29.225 ± 15.664 $\chi^2/\text{NDF}: 80.0/55$

All: 0.378 ± 11.295 $\chi^2/\text{NDF}: 129.5/104$

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 89.533+/-0.018 χ^2/NDF : 883926.2/25

Left Out: 87.625+/-0.015 χ^2/NDF : 554690.7/24

Right Out: 91.592+/-0.017 χ^2/NDF : 1329468.6/30

Left In: 88.032+/-0.015 χ^2/NDF : 523710.9/22

Left: 87.822+/-0.010 χ^2/NDF : 1078779.2/47

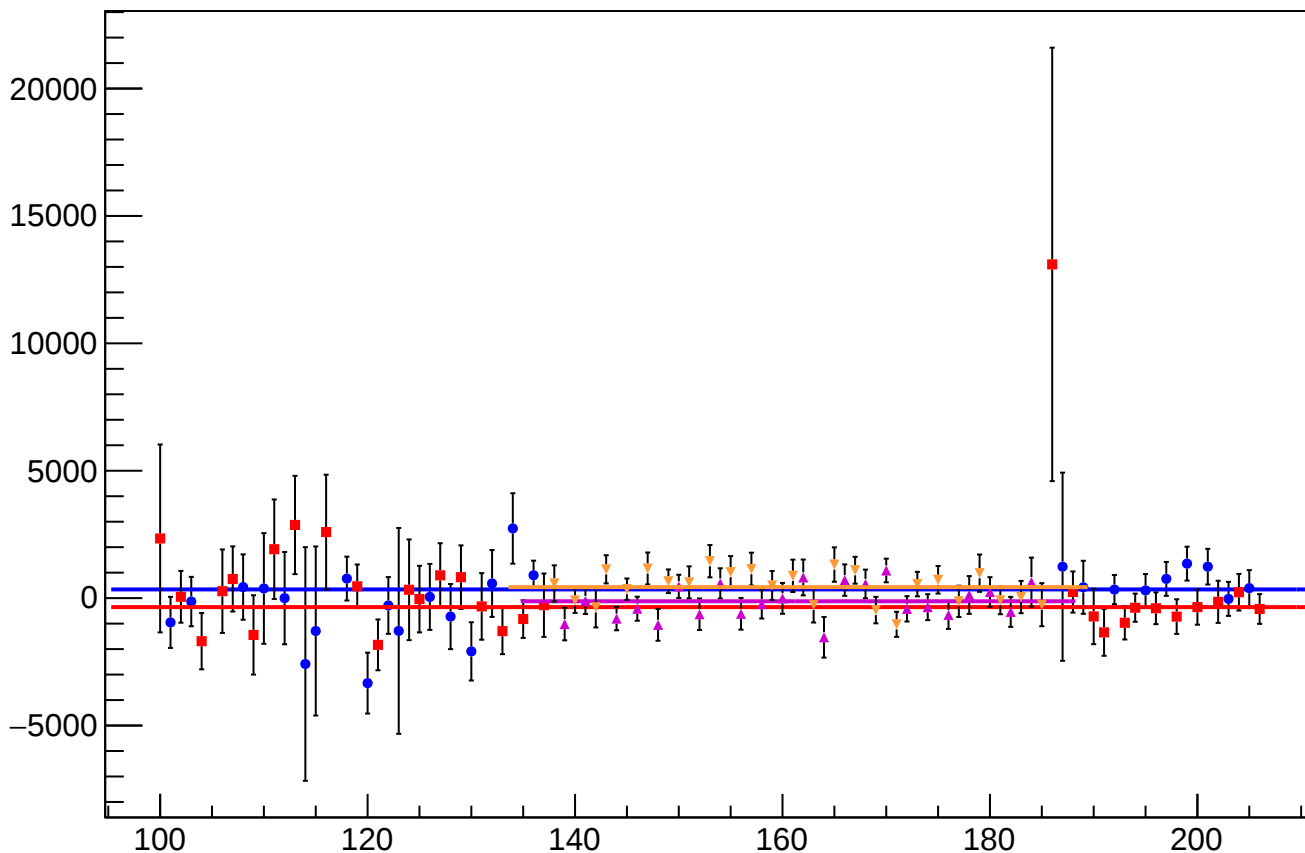
Right: 90.613+/-0.012 χ^2/NDF : 2220300.0/56

In: 88.652+/-0.012 χ^2/NDF : 1411747.1/48

Out: 89.294+/-0.011 χ^2/NDF : 1915406.4/55

All: 88.986+/-0.008 χ^2/NDF : 3328767.9/104

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 342.041 $\pm$ 183.732 χ^2 /NDF: 26.8/25

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -352.428 $\pm$ 168.801 χ^2 /NDF: 22.3/30

Left In: -123.017 $\pm$ 118.849 χ^2 /NDF:29.3/22

Left: 161.753 $\pm$ 82.905 χ^2 /NDF: 70.9/47

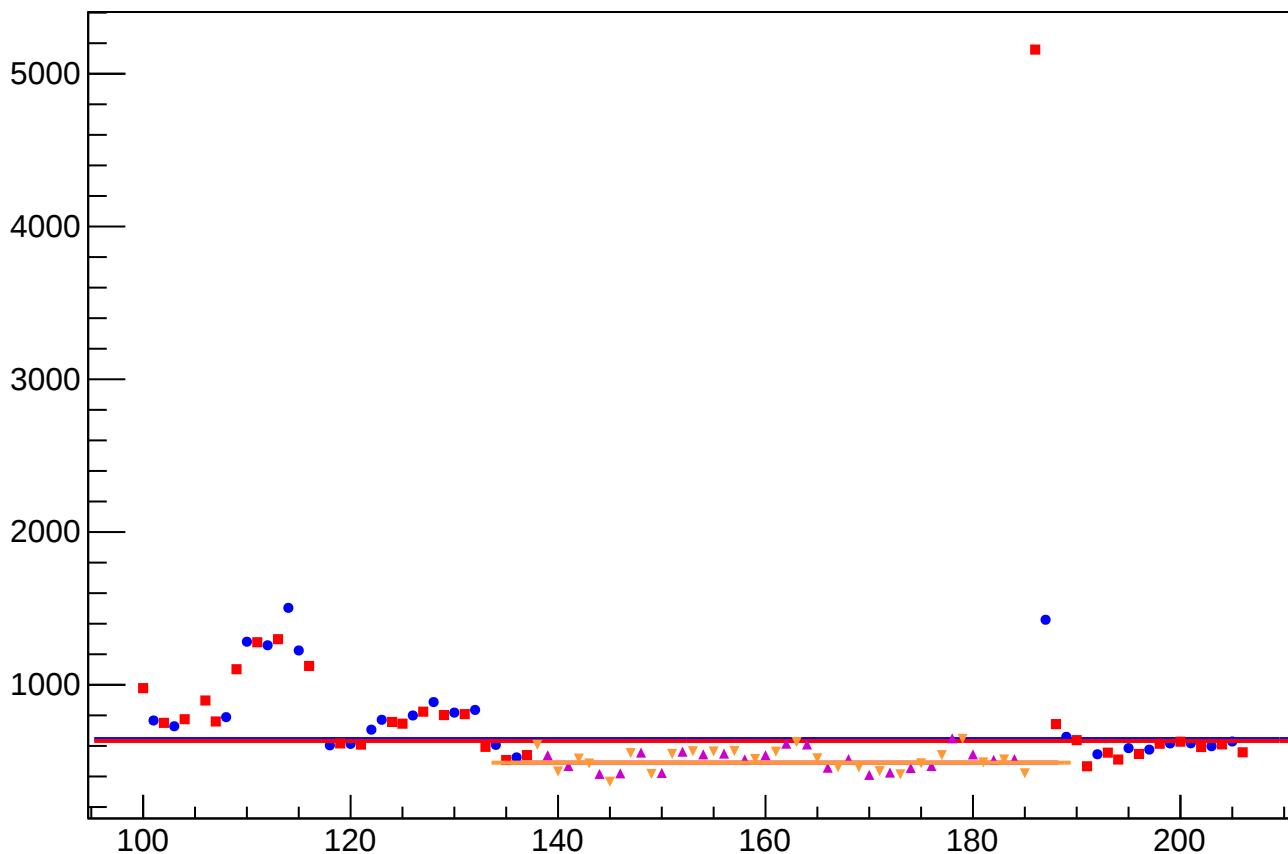
Right: -34.555 $\pm$ 124.304 χ^2 /NDF: 56.8/56

In: 14.173 $\pm$ 99.791 χ^2 /NDF:60.5/48

Out: 181.018 $\pm$ 95.437 χ^2 /NDF:67.4/55

All: 101.314 $\pm$ 68.972 χ^2 /NDF: 129.4/104

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 645.019 $\pm$ 0.130 χ^2 /NDF: 1100668.0/25

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 632.479 $\pm$ 0.119 χ^2 /NDF: 1970811.1/30

Left In: 490.910 $\pm$ 0.084 χ^2 /NDF: 589235.5/22

Left: 490.580 $\pm$ 0.059 χ^2 /NDF: 1339542.5/47

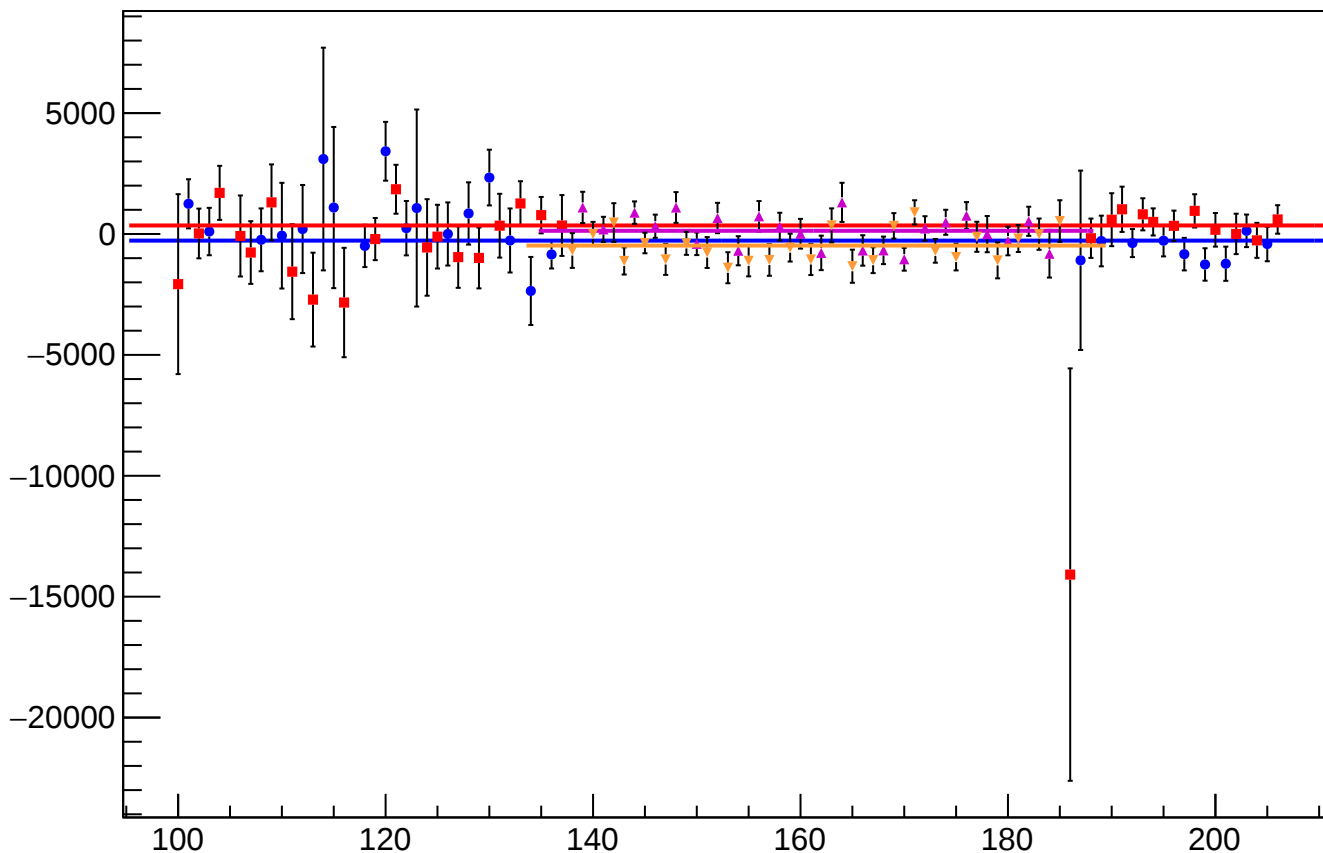
Right: 638.219 $\pm$ 0.088 χ^2 /NDF: 3076531.5/56

In: 536.371 $\pm$ 0.071 χ^2 /NDF: 2681902.9/48

Out: 535.726 $\pm$ 0.067 χ^2 /NDF: 3686874.9/55

All: 536.034 $\pm$ 0.049 χ^2 /NDF: 6368821.5/104

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -273.953+/-185.692 χ^2/NDF : 27.1/25

Left Out: -478.197+/-117.659 χ^2/NDF : 27.8/24

Right Out: 352.700+/-170.775 χ^2/NDF : 21.3/30

Left In: 132.543+/-120.866 χ^2/NDF : 29.5/22

Left: -181.037+/-84.308 χ^2/NDF : 70.5/47

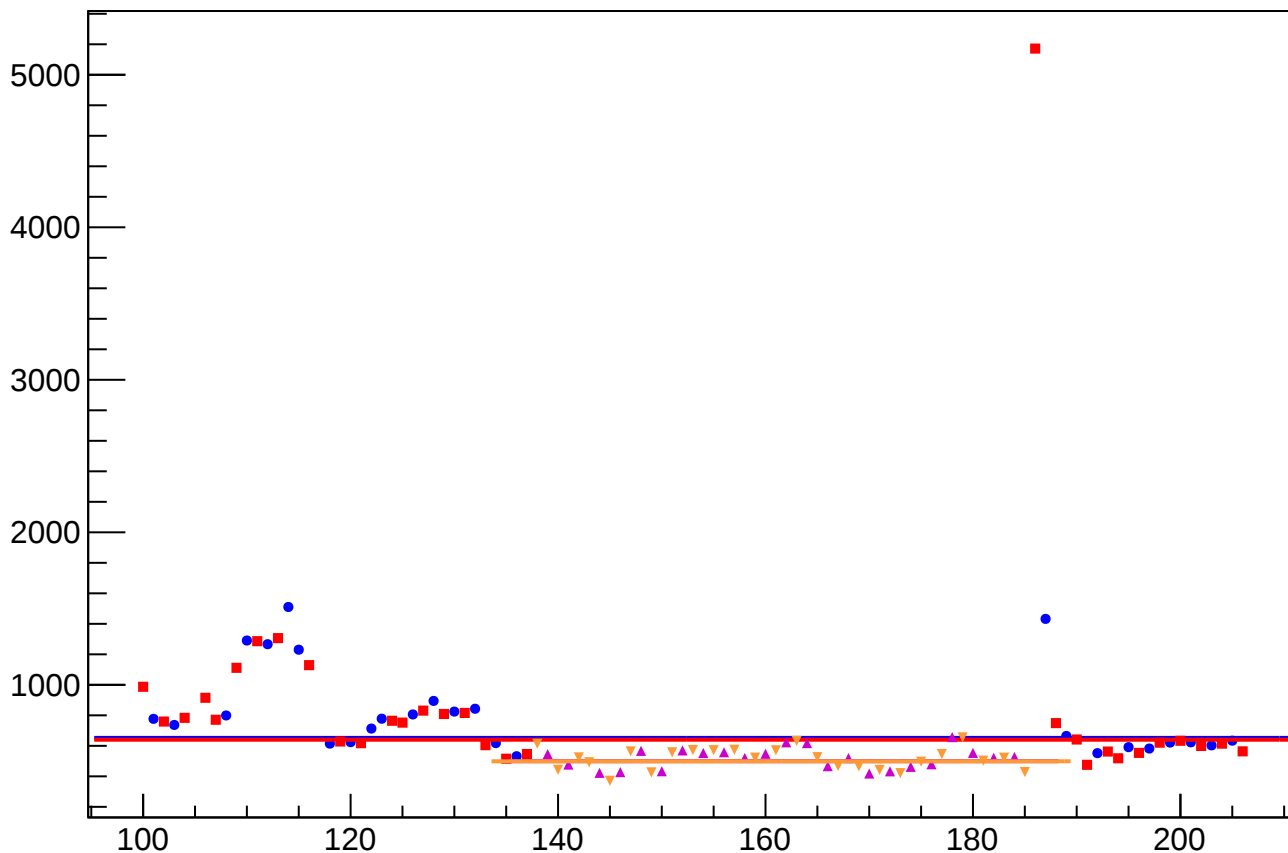
Right: 65.552+/-125.699 χ^2/NDF : 54.6/56

In: 11.575+/-101.298 χ^2/NDF : 60.0/48

Out: -210.741+/-96.889 χ^2/NDF : 65.2/55

All: -104.526+/-70.018 χ^2/NDF : 127.7/104

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 652.092 $\pm$ 0.131 χ^2 /NDF: 1089894.1/25

Left Out: 498.754 $\pm$ 0.083 χ^2 /NDF: 734302.8/24

Right Out: 640.141 $\pm$ 0.121 χ^2 /NDF: 1950577.3/30

Left In: 499.393 $\pm$ 0.085 χ^2 /NDF: 576539.2/22

Left: 499.065 $\pm$ 0.060 χ^2 /NDF: 1310870.7/47

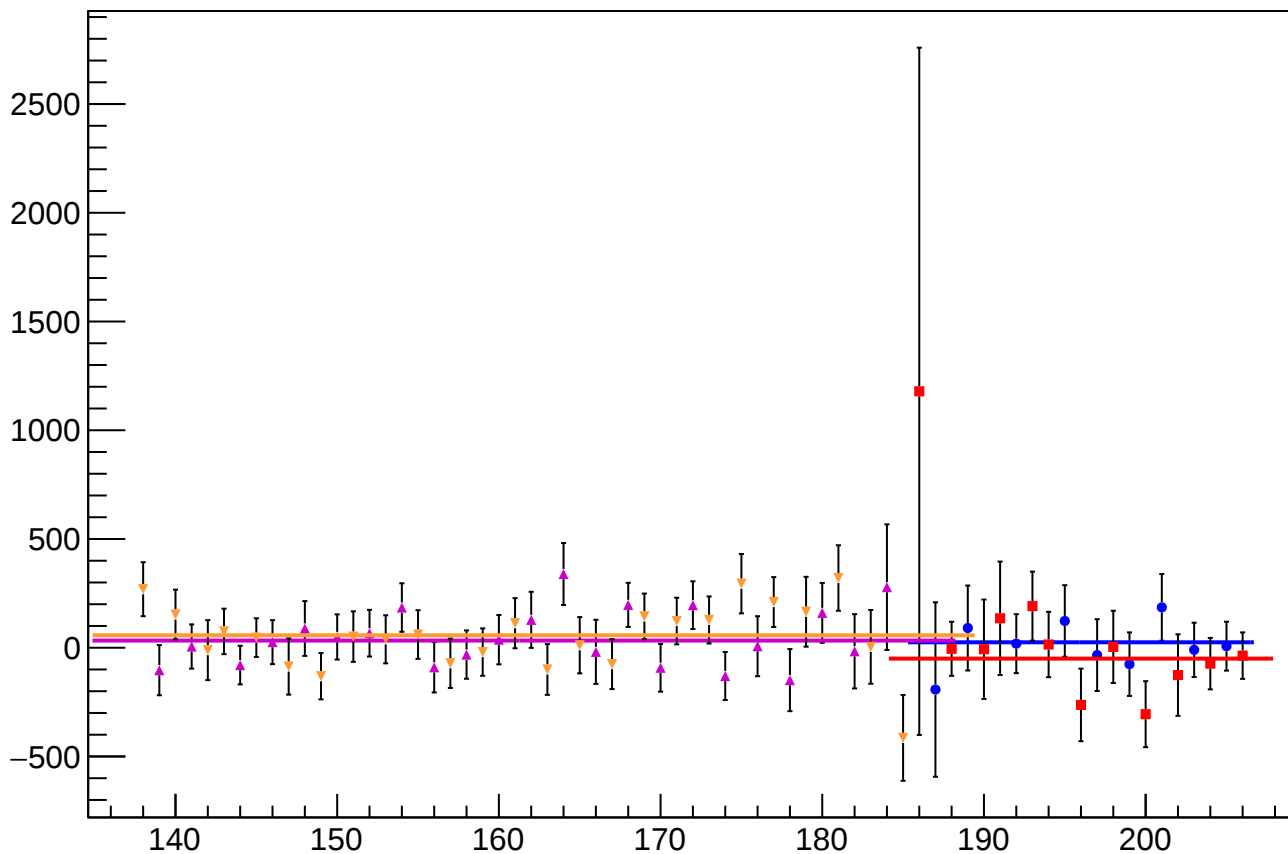
Right: 645.617 $\pm$ 0.089 χ^2 /NDF: 3044959.6/56

In: 544.834 $\pm$ 0.072 χ^2 /NDF: 2616396.0/48

Out: 544.265 $\pm$ 0.069 χ^2 /NDF: 3614490.4/55

All: 544.537 $\pm$ 0.050 χ^2 /NDF: 6230919.3/104

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 24.928 $\pm$ 50.437 χ^2 /NDF: 2.6/8

Left Out: 57.211 $\pm$ 23.714 χ^2 /NDF:29.2/24

Right Out: -50.025 $\pm$ 45.366 χ^2 /NDF: 8.6/11

Left In: 32.948 $\pm$ 24.587 χ^2 /NDF:23.6/22

Left: 45.518 $\pm$ 17.069 χ^2 /NDF: 53.3/47

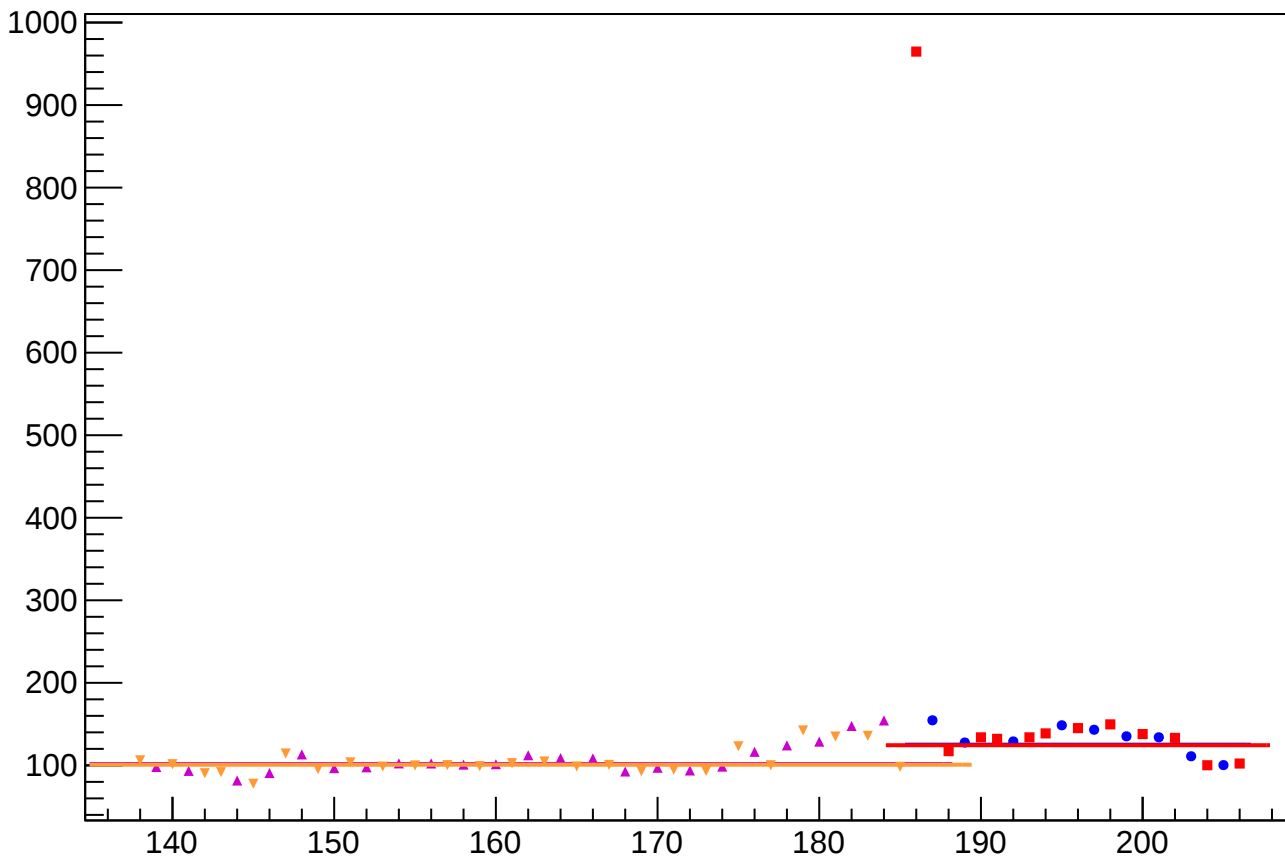
Right: -16.505 $\pm$ 33.729 χ^2 /NDF: 12.4/20

In: 31.408 $\pm$ 22.101 χ^2 /NDF:26.2/31

Out: 34.198 $\pm$ 21.016 χ^2 /NDF:42.1/36

All: 32.873 $\pm$ 15.230 χ^2 /NDF: 68.3/68

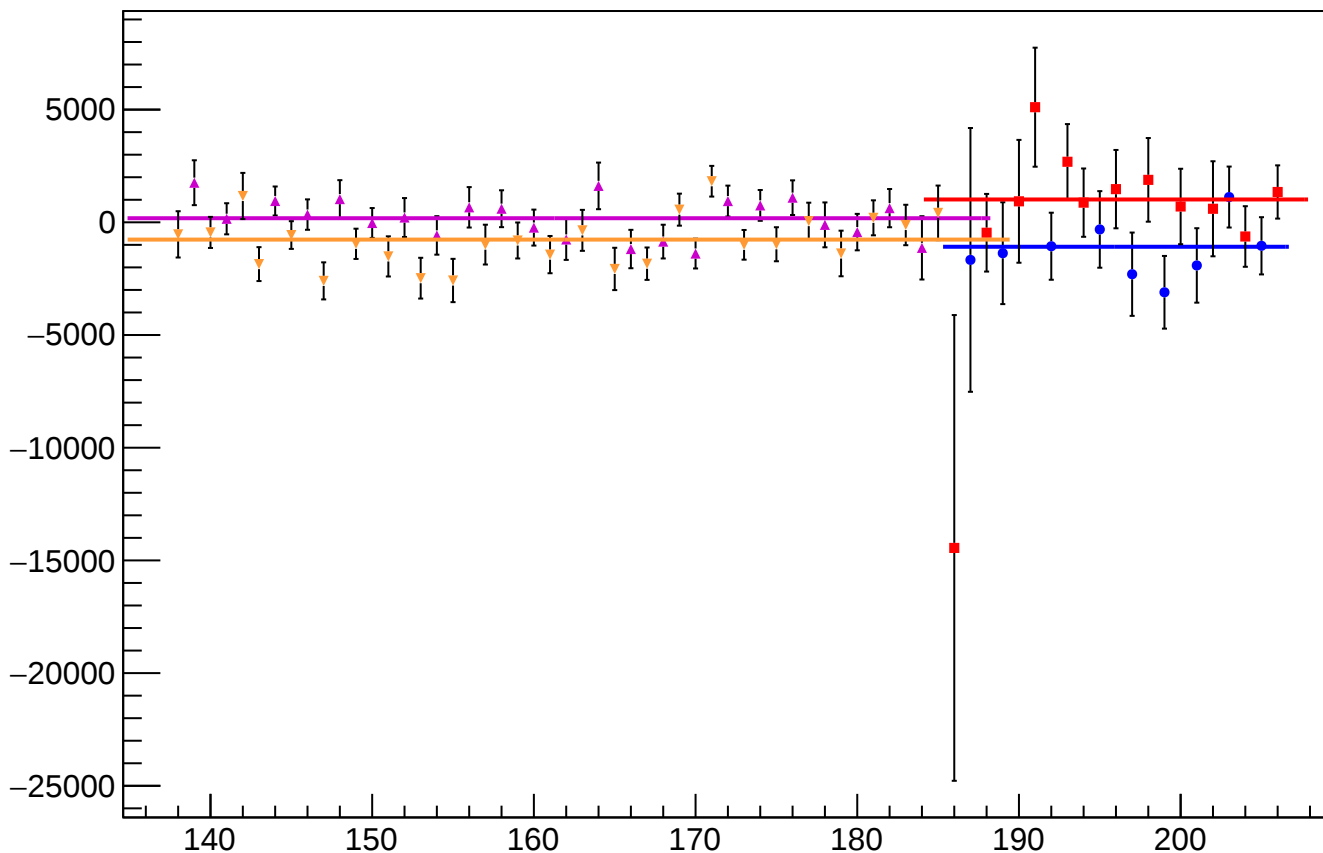
reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 125.055+/-0.036 χ^2/NDF : 216262.3/8
 Left Out: 100.801+/-0.017 χ^2/NDF : 600502.4/24
 Right Out: 124.421+/-0.032 χ^2/NDF : 870975.6/11
 Left In: 101.622+/-0.017 χ^2/NDF : 582329.3/22

Left: 101.196+/-0.012 χ^2/NDF : 1183987.6/47
 Right: 124.705+/-0.024 χ^2/NDF : 1087412.3/20
 In: 106.121+/-0.016 χ^2/NDF : 1147411.8/31
 Out: 105.870+/-0.015 χ^2/NDF : 1897325.6/36
 All: 105.989+/-0.011 χ^2/NDF : 3044873.5/68

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1084.762 ± 555.956 $\chi^2/\text{NDF}: 5.1/8$

Left Out: -766.358 ± 161.066 $\chi^2/\text{NDF}: 46.5/24$

Right Out: 1013.539 ± 506.901 $\chi^2/\text{NDF}: 8.3/11$

Left In: 181.584 ± 165.671 $\chi^2/\text{NDF}: 25.0/22$

Left: -305.743 ± 115.485 $\chi^2/\text{NDF}: 88.4/47$

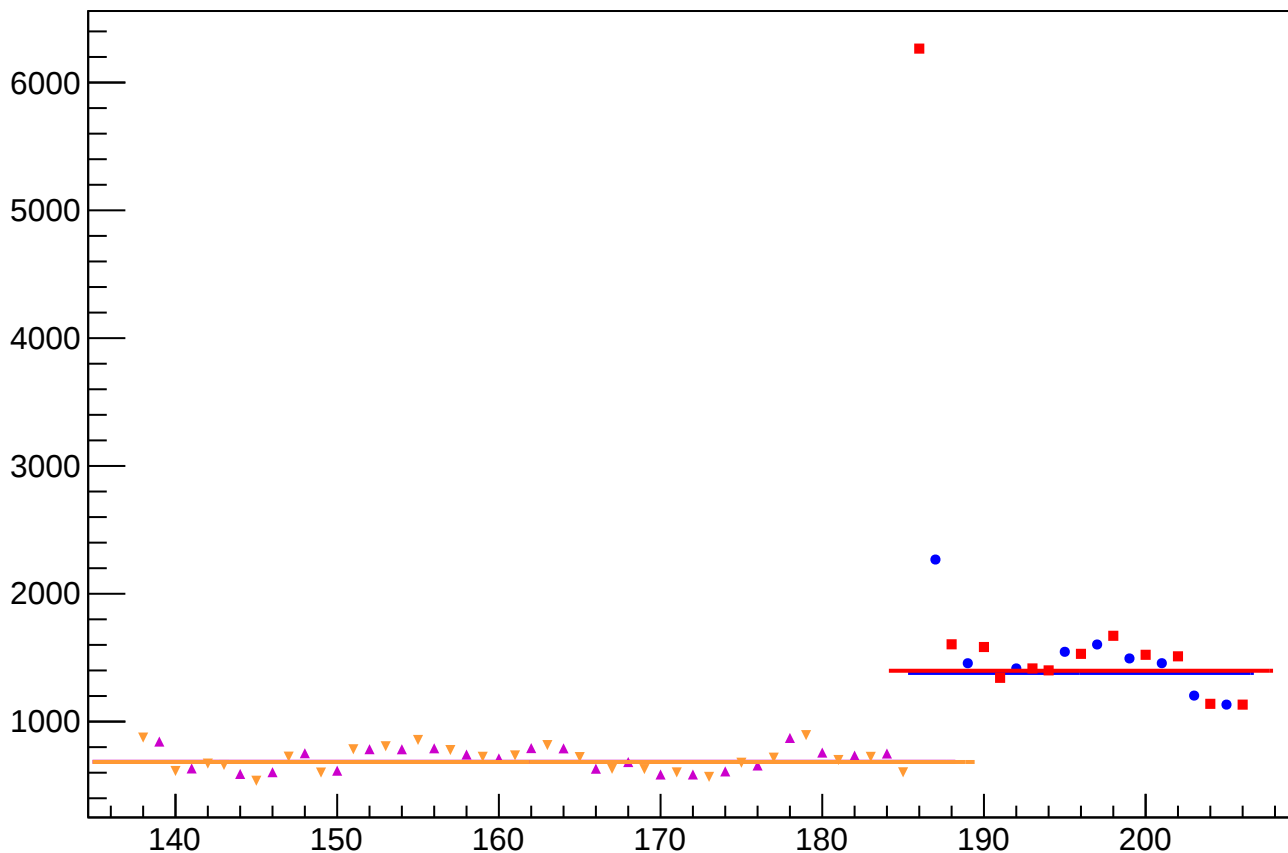
Right: 61.027 ± 374.577 $\chi^2/\text{NDF}: 21.2/20$

In: 78.304 ± 158.771 $\chi^2/\text{NDF}: 34.9/31$

Out: -603.133 ± 153.503 $\chi^2/\text{NDF}: 66.1/36$

All: -273.907 ± 110.359 $\chi^2/\text{NDF}: 110.5/68$

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1380.641 $\pm$ 0.393 χ^2 /NDF: 222054.5/8

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1397.721 $\pm$ 0.358 χ^2 /NDF: 730039.5/11

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

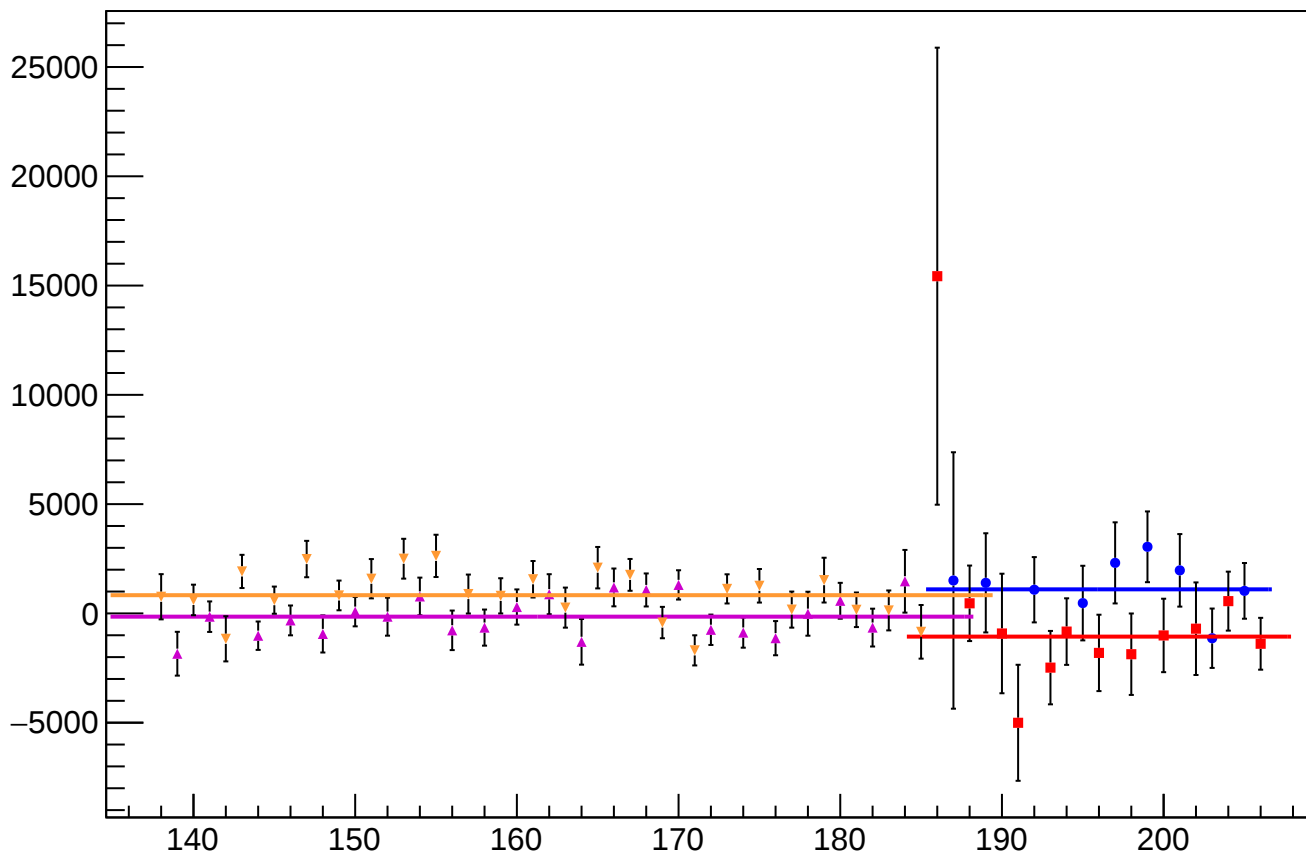
Right: 1389.968 $\pm$ 0.265 χ^2 /NDF: 953124.8/20

In: 742.279 $\pm$ 0.112 χ^2 /NDF: 3622396.3/31

Out: 749.346 $\pm$ 0.109 χ^2 /NDF: 4999735.8/36

All: 745.932 $\pm$ 0.078 χ^2 /NDF: 8624180.2/68

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1100.746 $\pm$ 558.356 χ^2 /NDF: 5.0/8

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF:43.2/24

Right Out: -1062.016 $\pm$ 509.084 χ^2 /NDF: 8.1/11

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

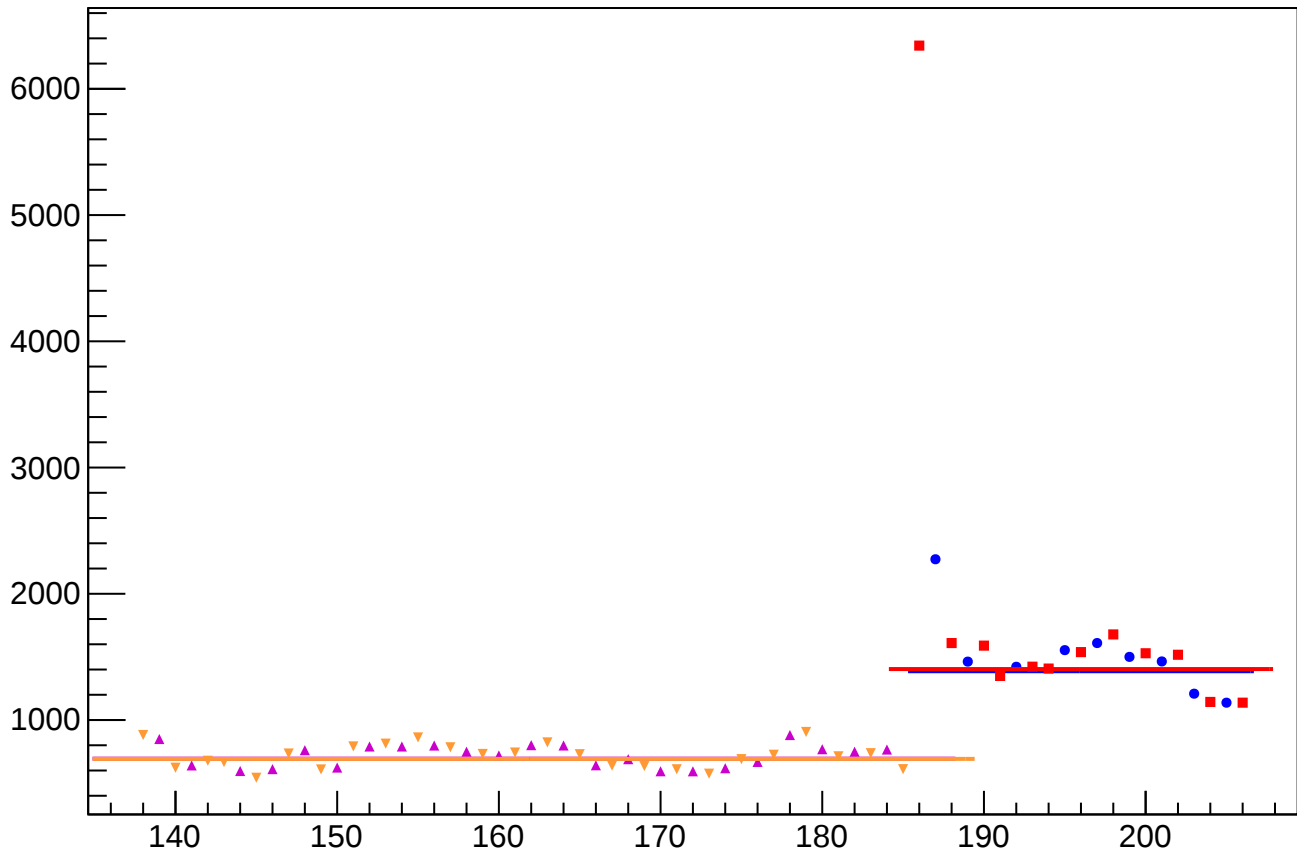
Right: -80.256 $\pm$ 376.192 χ^2 /NDF: 21.3/20

In: -45.484 $\pm$ 160.563 χ^2 /NDF:35.6/31

Out: 657.219 $\pm$ 155.207 χ^2 /NDF:63.9/36

All: 317.784 $\pm$ 111.593 χ^2 /NDF: 109.5/68

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1386.618 $\pm$ 0.395 χ^2 /NDF: 222195.4/8

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1403.687 $\pm$ 0.360 χ^2 /NDF: 732269.6/11

Left In: 693.867 $\pm$ 0.119 χ^2 /NDF: 522053.5/22

Left: 692.957 $\pm$ 0.083 χ^2 /NDF: 1179427.7/47

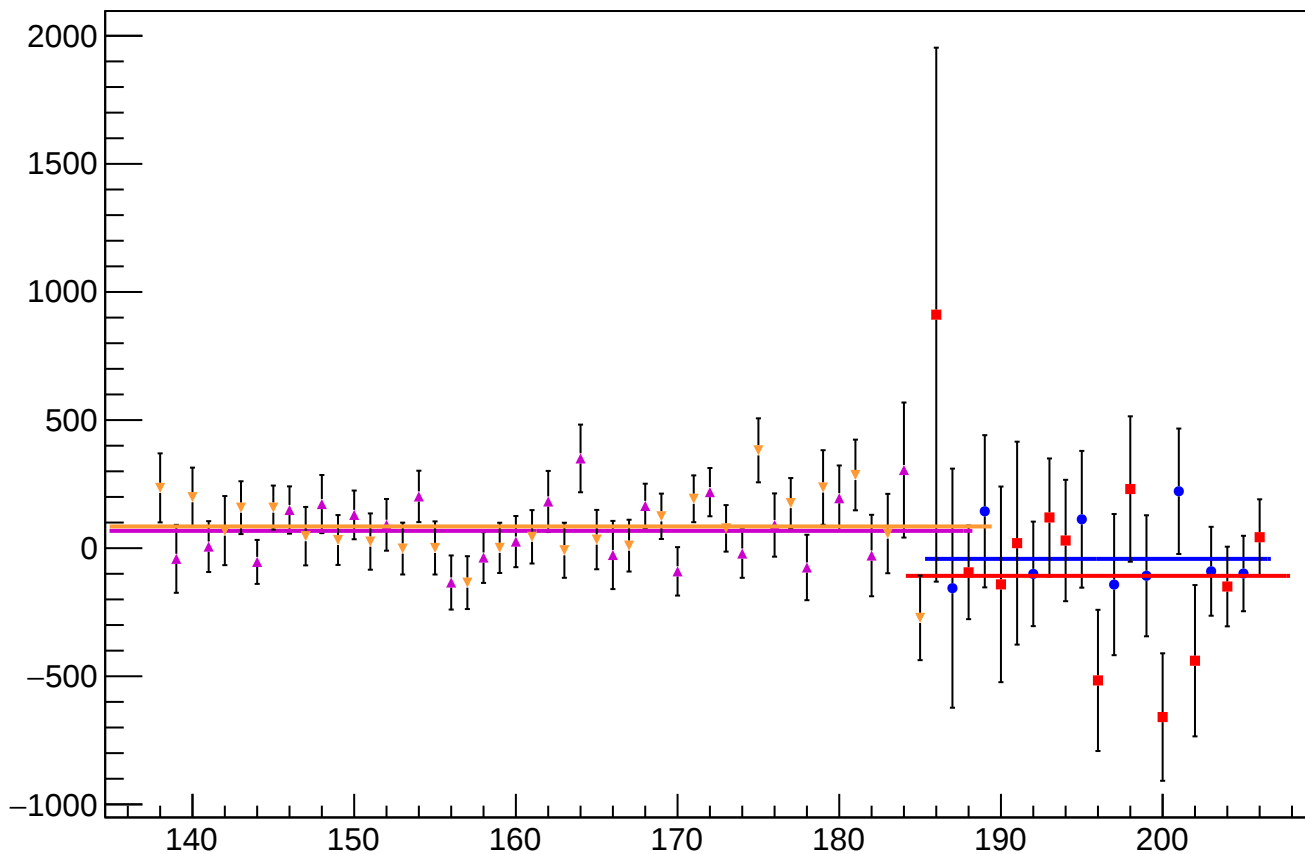
Right: 1395.939 $\pm$ 0.266 χ^2 /NDF: 955485.7/20

In: 751.153 $\pm$ 0.114 χ^2 /NDF: 3568319.0/31

Out: 758.238 $\pm$ 0.110 χ^2 /NDF: 4933940.3/36

All: 754.815 $\pm$ 0.079 χ^2 /NDF: 8504272.7/68

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -41.773 ± 74.306 $\chi^2/\text{NDF}: 2.5/8$

Left Out: 84.860 ± 21.643 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -108.080 ± 67.266 $\chi^2/\text{NDF}: 13.3/11$

Left In: 67.552 ± 22.449 $\chi^2/\text{NDF}: 28.9/22$

Left: 76.522 ± 15.581 $\chi^2/\text{NDF}: 57.7/47$

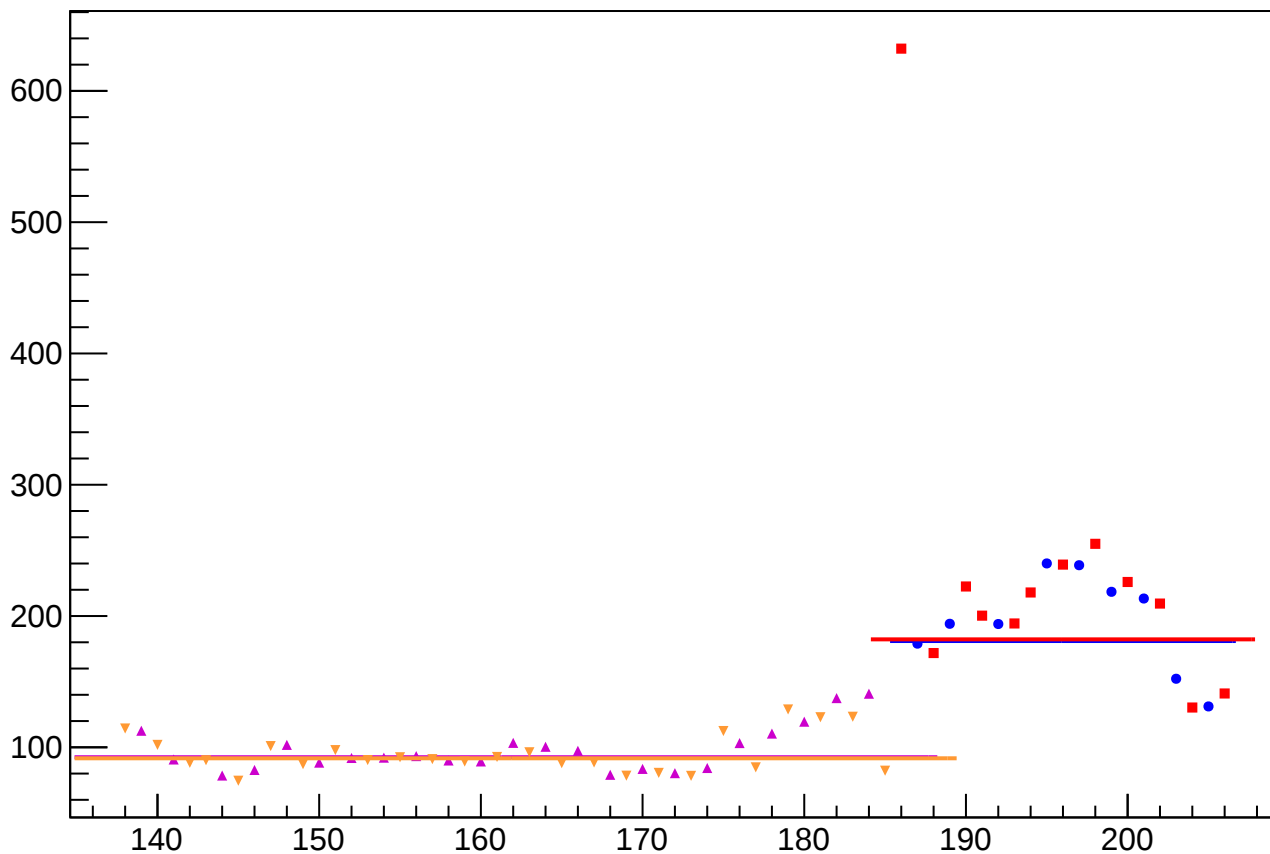
Right: -78.216 ± 49.868 $\chi^2/\text{NDF}: 16.2/20$

In: 58.408 ± 21.490 $\chi^2/\text{NDF}: 33.3/31$

Out: 66.760 ± 20.603 $\chi^2/\text{NDF}: 49.2/36$

All: 62.760 ± 14.872 $\chi^2/\text{NDF}: 82.6/68$

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 180.963 $\pm$ 0.053 χ^2 /NDF: 567133.6/8

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 182.229 $\pm$ 0.048 χ^2 /NDF: 1130803.9/11

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

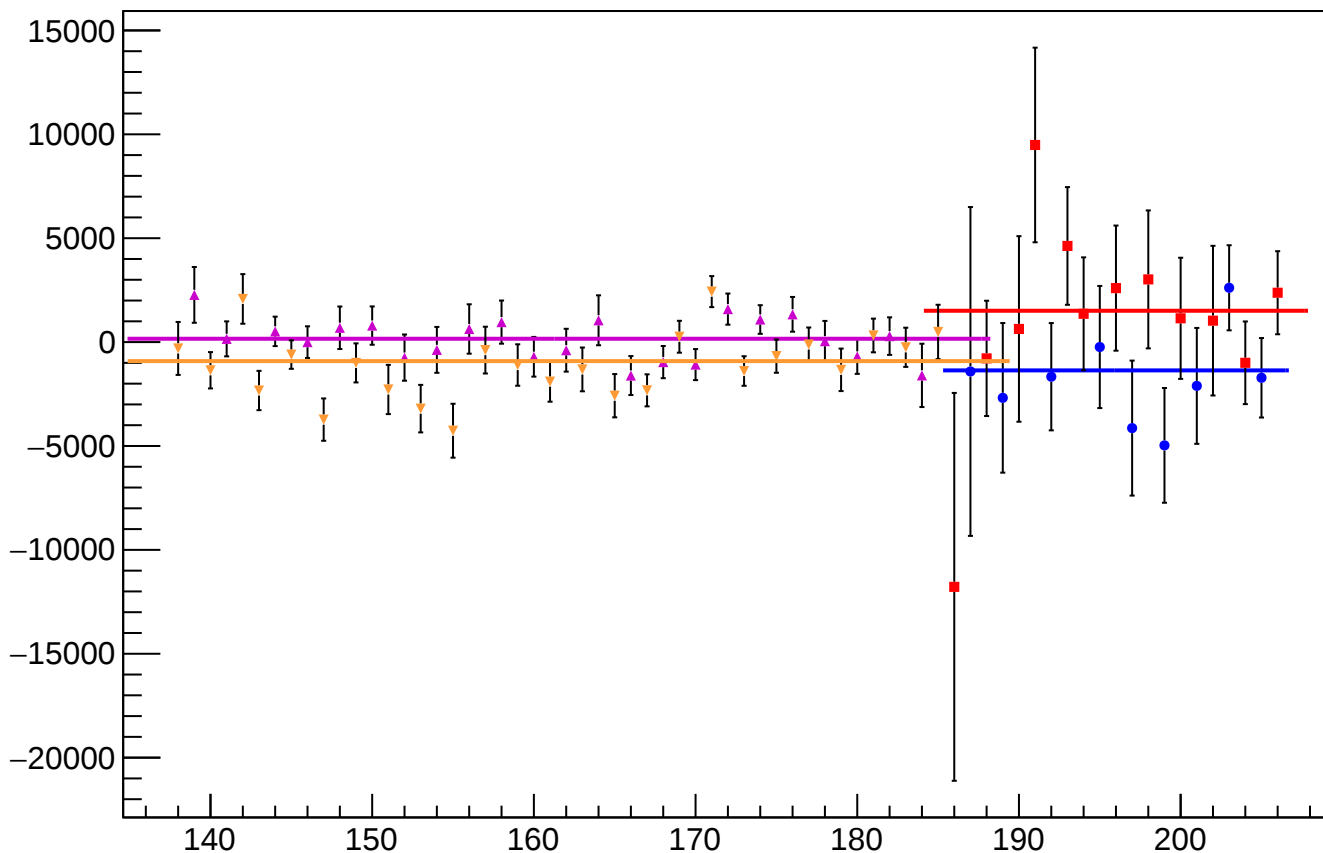
Right: 181.659 $\pm$ 0.035 χ^2 /NDF: 1698256.3/20

In: 99.868 $\pm$ 0.015 χ^2 /NDF: 3822461.6/31

Out: 100.132 $\pm$ 0.015 χ^2 /NDF: 5111503.2/36

All: 100.005 $\pm$ 0.011 χ^2 /NDF: 8934121.7/68

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1361.988 ± 903.440 χ^2/NDF : 6.6/8

Left Out: -914.719 ± 185.341 χ^2/NDF : 64.2/24

Right Out: 1508.618 ± 846.333 χ^2/NDF : 9.0/11

Left In: 161.076 ± 189.491 χ^2/NDF : 25.1/22

Left: -388.730 ± 132.499 χ^2/NDF : 105.7/47

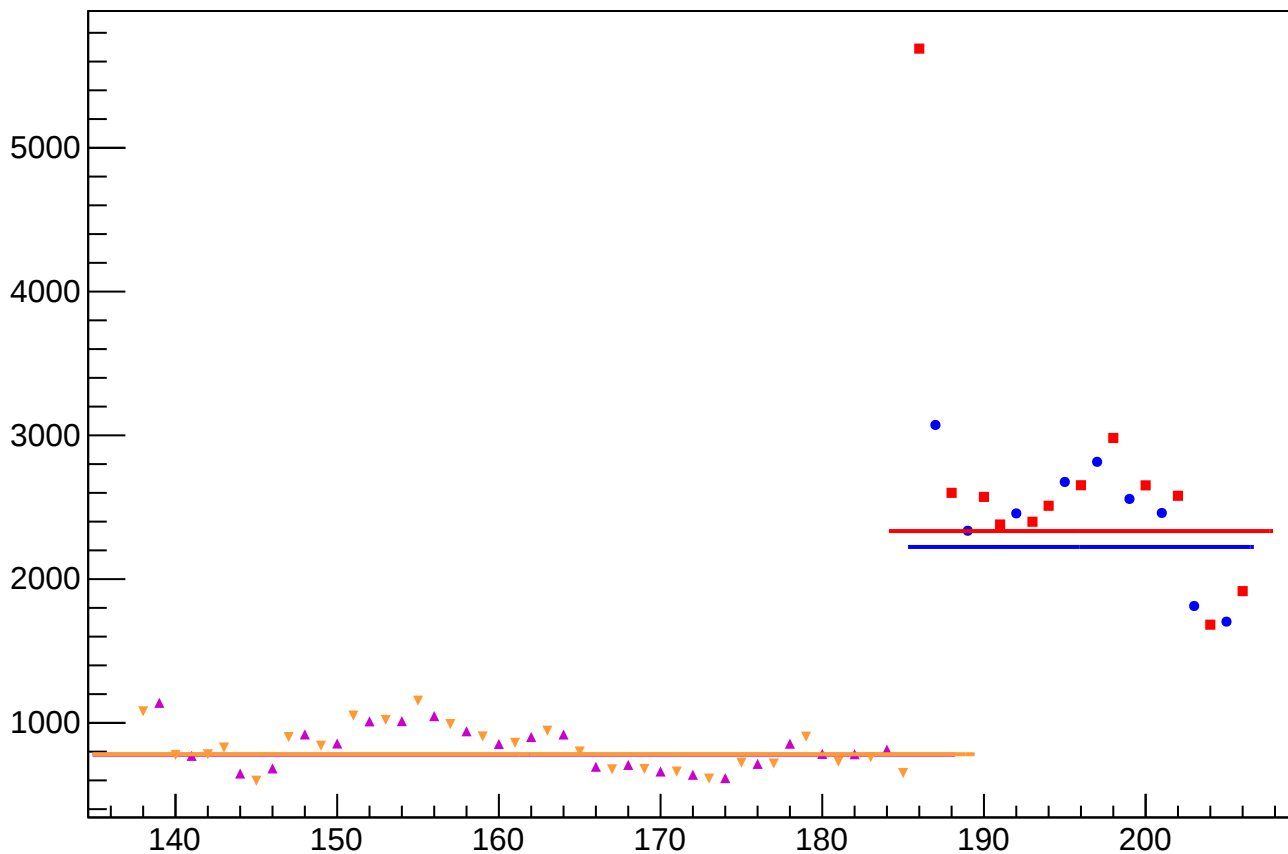
Right: 166.903 ± 617.650 χ^2/NDF : 21.0/20

In: 96.897 ± 185.455 χ^2/NDF : 34.4/31

Out: -803.820 ± 181.050 χ^2/NDF : 81.0/36

All: -364.286 ± 129.551 χ^2/NDF : 127.5/68

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2223.819+/-0.639 χ^2/NDF : 426675.2/8

Left Out: 782.042+/-0.131 χ^2/NDF : 1130984.3/24

Right Out: 2334.389+/-0.598 χ^2/NDF : 725414.9/11

Left In: 778.995+/-0.134 χ^2/NDF : 980243.4/22

Left: 780.552+/-0.094 χ^2/NDF : 2111492.1/47

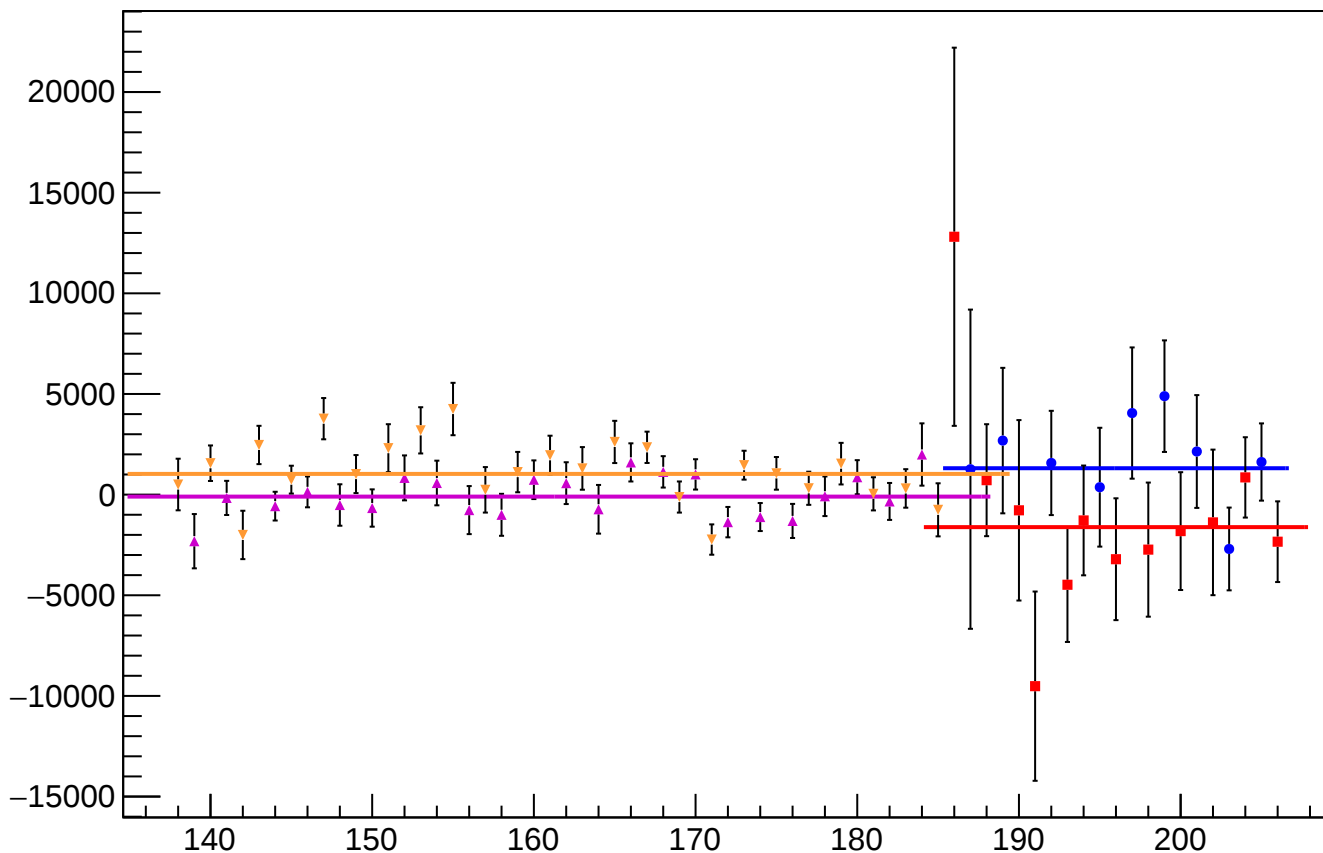
Right: 2282.709+/-0.437 χ^2/NDF : 1168045.6/20

In: 839.877+/-0.131 χ^2/NDF : 6306561.7/31

Out: 853.082+/-0.128 χ^2/NDF : 8277087.4/36

All: 846.638+/-0.092 χ^2/NDF : 14588840.5/68

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1311.222+/-906.746 χ^2/NDF : 6.6/8

Left Out: 1028.864+/-186.810 χ^2/NDF : 60.2/24

Right Out: -1615.058+/-849.285 χ^2/NDF : 9.0/11

Left In: -98.691+/-191.027 χ^2/NDF : 25.4/22

Left: 477.669+/-133.561 χ^2/NDF : 103.3/47

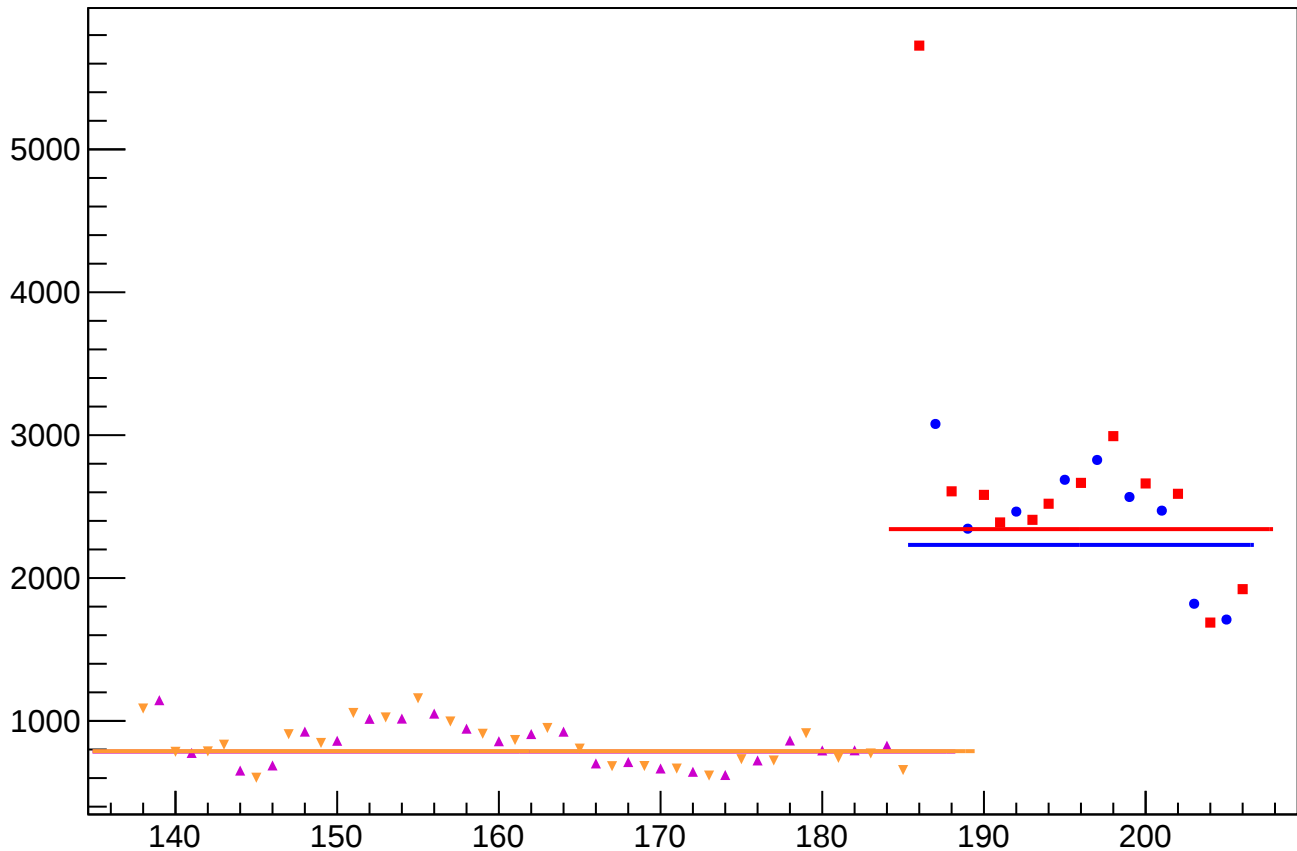
Right: -247.570+/-619.854 χ^2/NDF : 21.1/20

In: -38.774+/-186.924 χ^2/NDF : 34.2/31

Out: 906.846+/-182.449 χ^2/NDF : 78.4/36

All: 445.491+/-130.564 χ^2/NDF : 125.8/68

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2231.880+/-0.641 χ^2/NDF : 427648.1/8

Left Out: 788.442+/-0.132 χ^2/NDF : 1113741.6/24

Right Out: 2342.342+/-0.601 χ^2/NDF : 728107.4/11

Left In: 785.490+/-0.135 χ^2/NDF : 965338.9/22

Left: 786.999+/-0.094 χ^2/NDF : 2079324.6/47

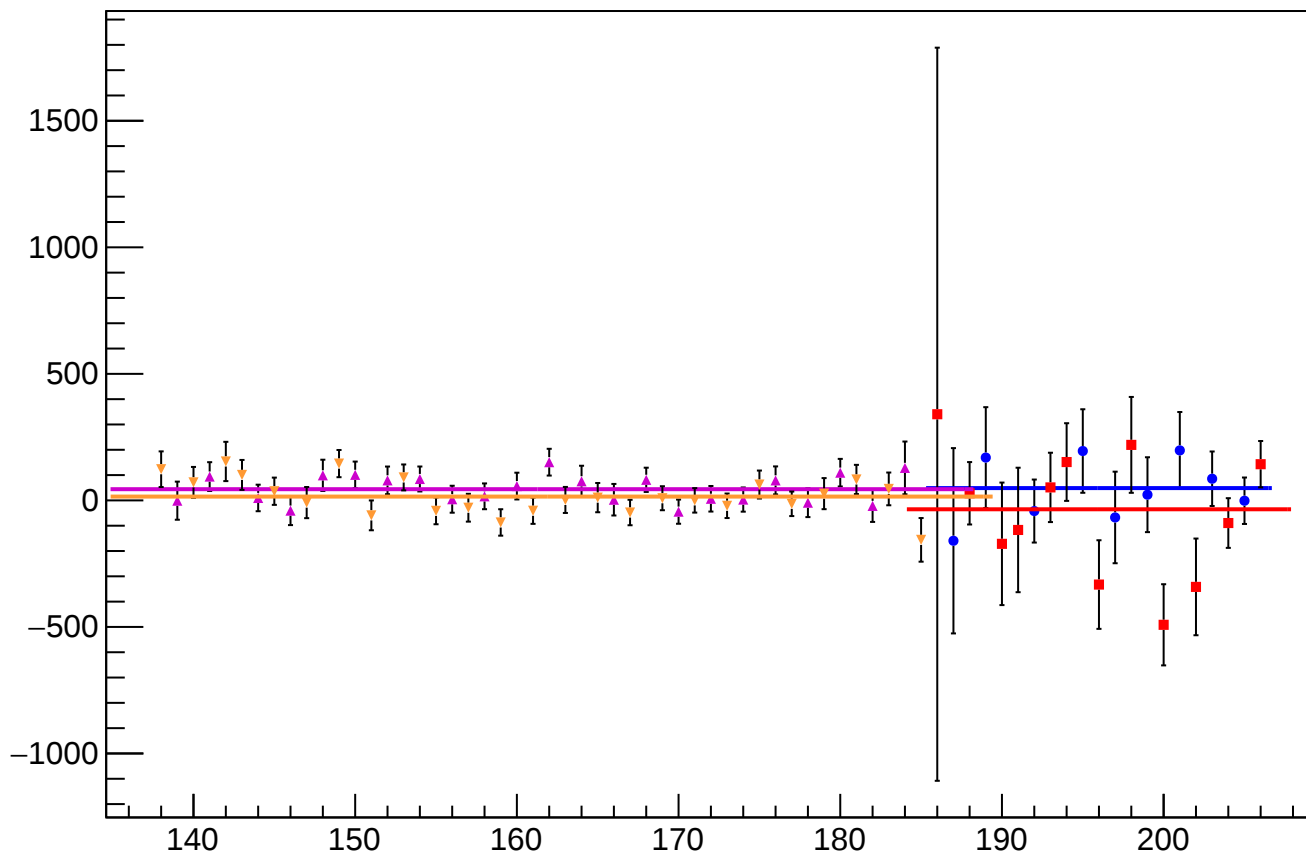
Right: 2290.721+/-0.438 χ^2/NDF : 1171566.5/20

In: 846.958+/-0.132 χ^2/NDF : 6265679.6/31

Out: 860.155+/-0.129 χ^2/NDF : 8228144.1/36

All: 853.716+/-0.092 χ^2/NDF : 14498929.2/68

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 48.623+/-46.694 χ^2/NDF : 3.8/8

Left Out: 15.099+/-11.154 χ^2/NDF : 34.2/24

Right Out: -35.126+/-42.828 χ^2/NDF : 22.1/11

Left In: 44.297+/-11.530 χ^2/NDF : 22.3/22

Left: 29.215+/-8.017 χ^2/NDF : 59.8/47

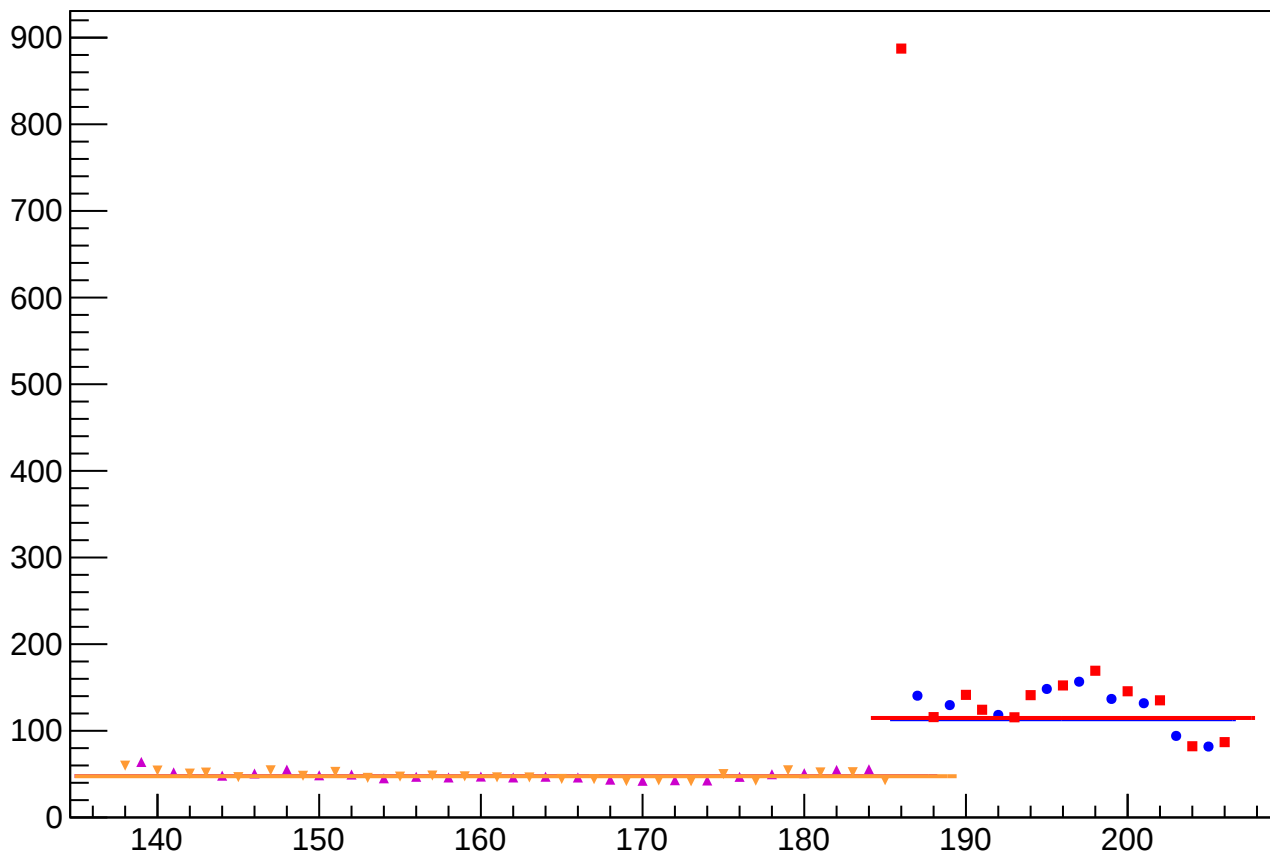
Right: 3.138+/-31.562 χ^2/NDF : 27.7/20

In: 44.546+/-11.193 χ^2/NDF : 26.1/31

Out: 11.909+/-10.794 χ^2/NDF : 57.6/36

All: 27.635+/-7.770 χ^2/NDF : 88.1/68

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 113.384 $\pm$ 0.033 χ^2 /NDF: 612024.8/8

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF:312874.8/24

Right Out: 114.815 $\pm$ 0.030 χ^2 /NDF: 1415580.7/11

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

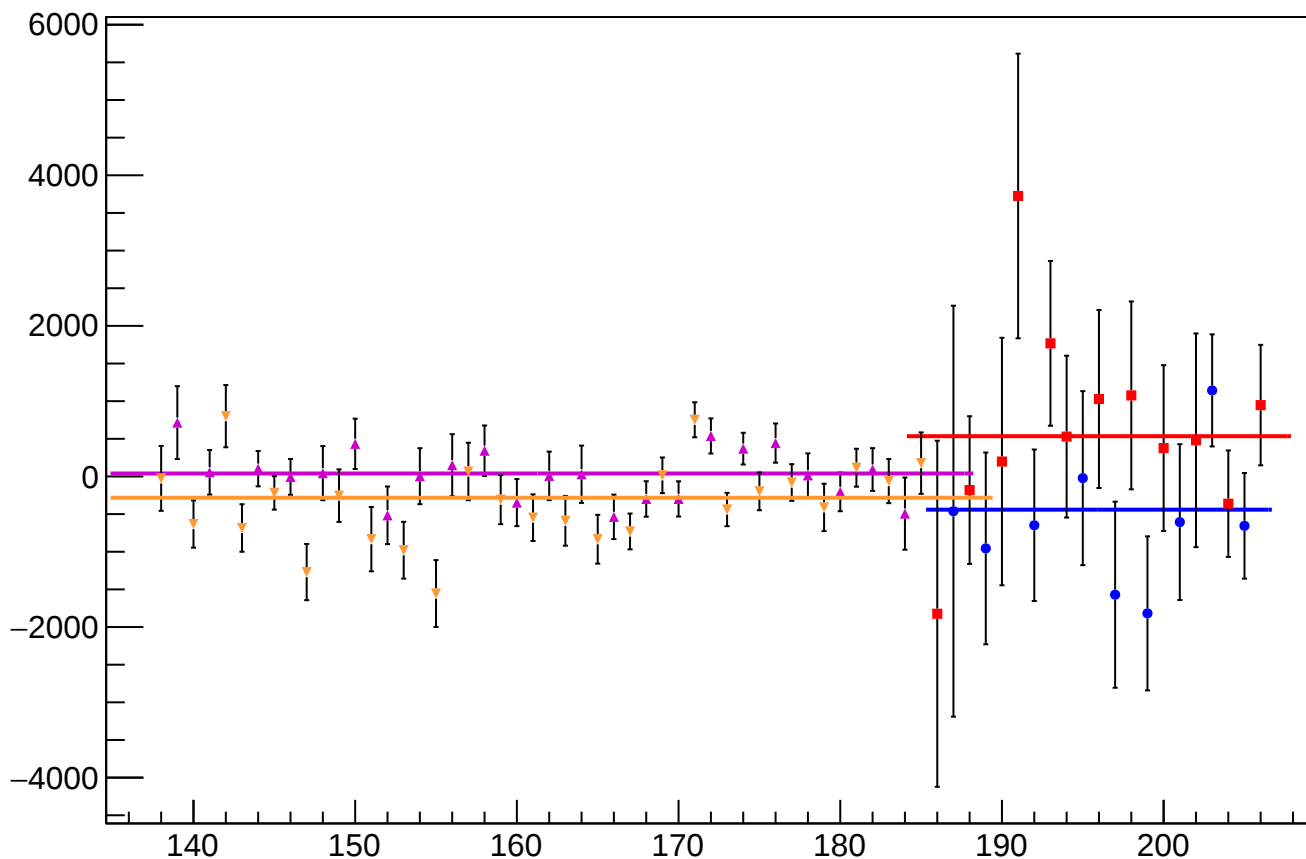
Right: 114.161 $\pm$ 0.022 χ^2 /NDF: 2028625.3/20

In: 51.612 $\pm$ 0.008 χ^2 /NDF:4607479.1/31

Out: 51.857 $\pm$ 0.008 χ^2 /NDF:6343632.6/36

All: 51.739 $\pm$ 0.005 χ^2 /NDF: 10951605.9/68

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -441.008 ± 335.823 χ^2/NDF : 7.6/8

Left Out: -282.798 ± 59.690 χ^2/NDF : 66.5/24

Right Out: 534.663 ± 319.073 χ^2/NDF : 8.0/11

Left In: 39.432 ± 60.759 χ^2/NDF : 27.5/22

Left: -124.543 ± 42.580 χ^2/NDF : 108.4/47

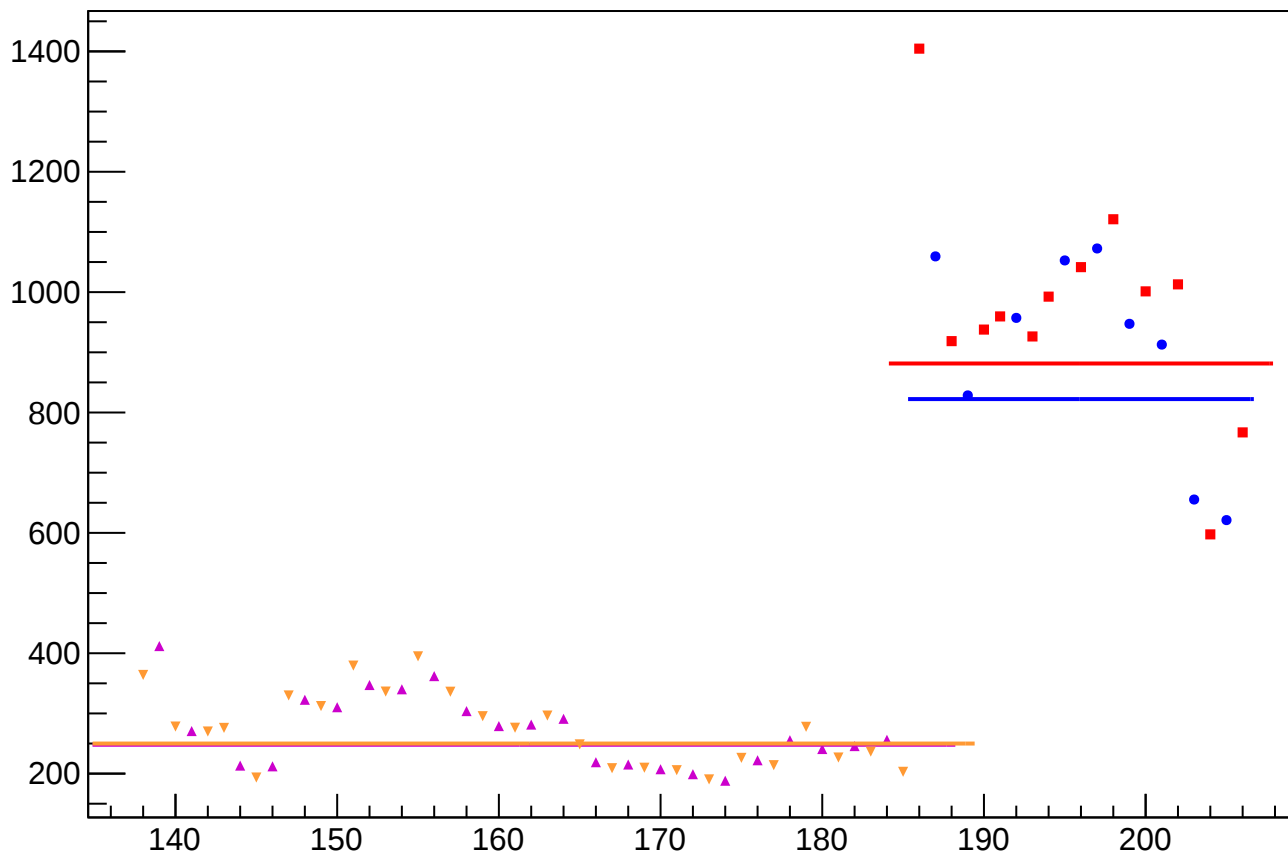
Right: 71.766 ± 231.313 χ^2/NDF : 20.1/20

In: 24.204 ± 59.788 χ^2/NDF : 37.2/31

Out: -255.158 ± 58.672 χ^2/NDF : 80.9/36

All: -118.109 ± 41.876 χ^2/NDF : 129.1/68

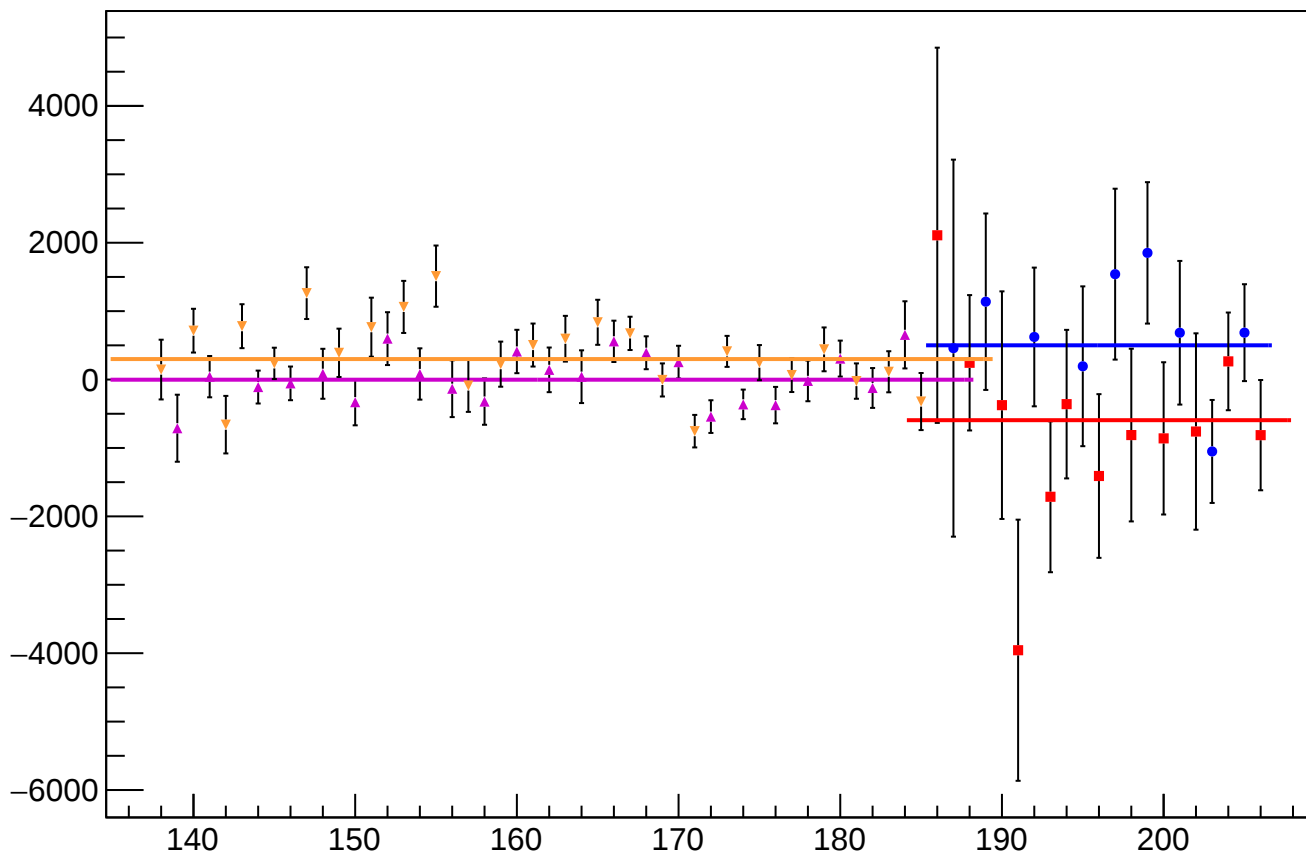
asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 822.298+/-0.237 χ^2/NDF : 522525.4/8
 Left Out: 249.956+/-0.042 χ^2/NDF : 1614205.9/24
 Right Out: 881.435+/-0.226 χ^2/NDF : 651840.5/11
 Left In: 247.917+/-0.043 χ^2/NDF : 1410847.5/22

Left: 248.955+/-0.030 χ^2/NDF : 3026200.1/47
 Right: 853.378+/-0.164 χ^2/NDF : 1206961.6/20
 In: 266.123+/-0.042 χ^2/NDF : 7598644.7/31
 Out: 271.309+/-0.041 χ^2/NDF : 9834885.8/36
 All: 268.764+/-0.030 χ^2/NDF : 17441195.5/68

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 500.575 $\pm$ 339.386 χ^2 /NDF: 7.1/8

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF:62.5/24

Right Out: -593.974 $\pm$ 323.073 χ^2 /NDF: 8.0/11

Left In: -2.185 $\pm$ 62.005 χ^2 /NDF:29.2/22

Left: 151.501 $\pm$ 43.433 χ^2 /NDF: 103.7/47

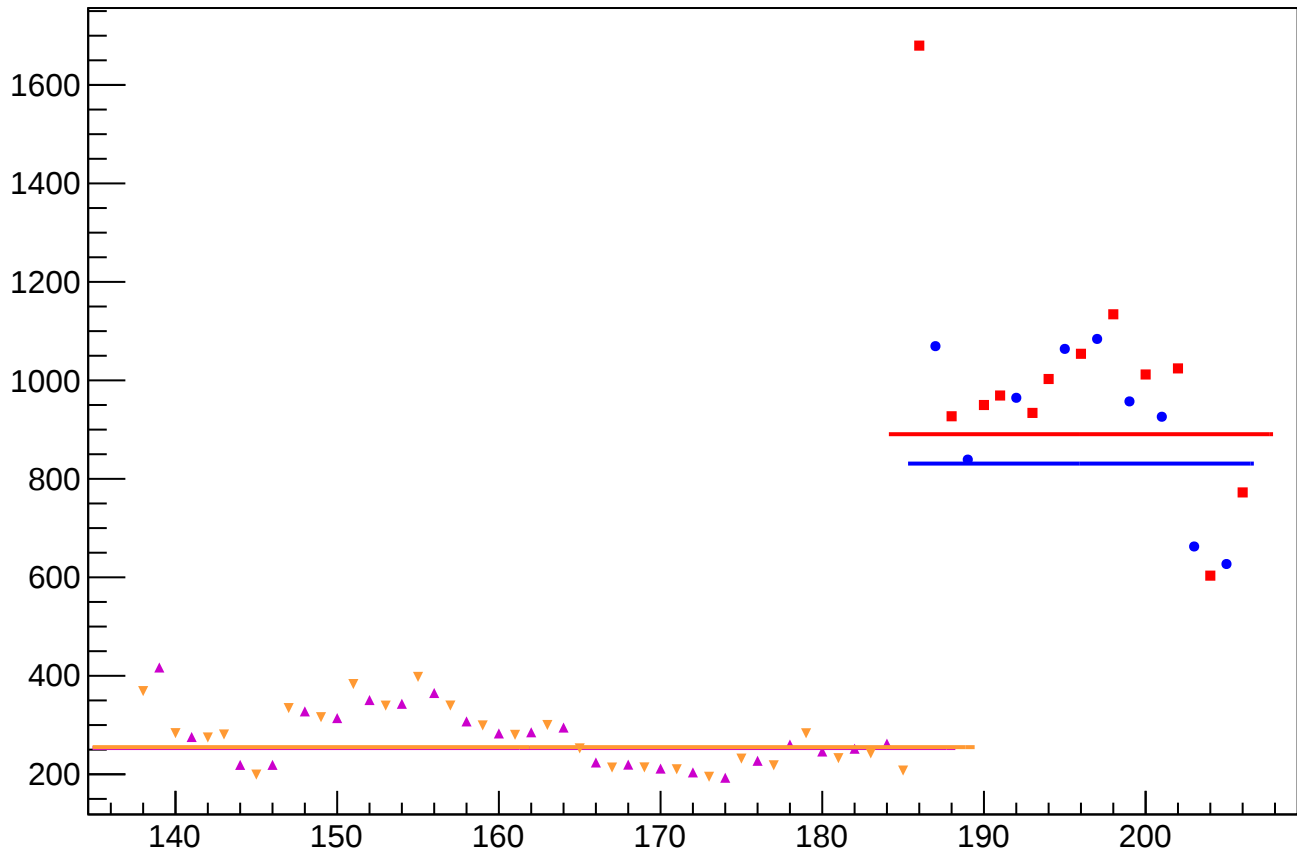
Right: -73.637 $\pm$ 234.002 χ^2 /NDF: 20.5/20

In: 14.054 $\pm$ 60.995 χ^2 /NDF:38.4/31

Out: 268.941 $\pm$ 59.808 χ^2 /NDF:77.8/36

All: 144.003 $\pm$ 42.704 χ^2 /NDF: 125.1/68

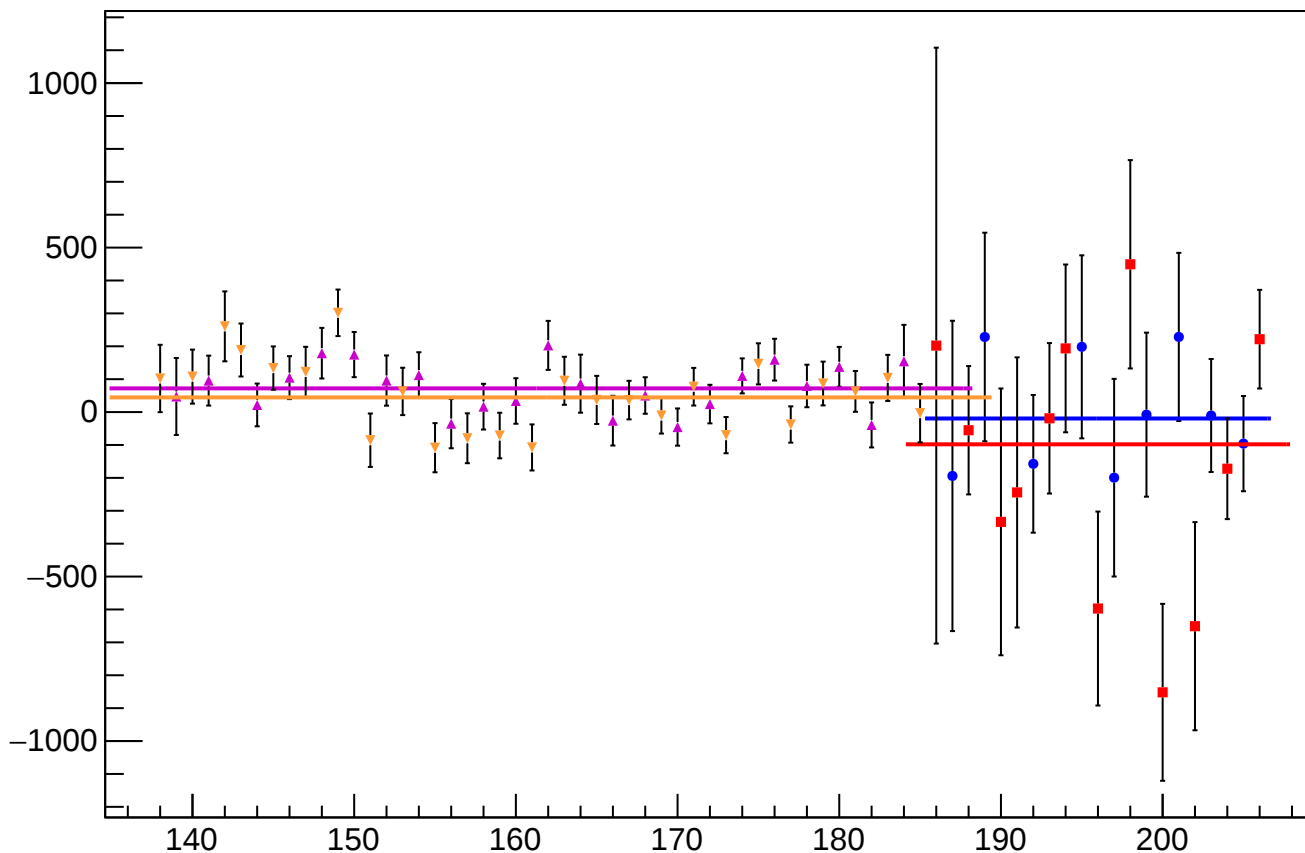
asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 831.000 $\pm$ 0.240 χ^2 /NDF: 523690.6/8
 Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF:1542039.5/24
 Right Out: 890.685 $\pm$ 0.228 χ^2 /NDF: 718175.9/11
 Left In: 253.287 $\pm$ 0.044 χ^2 /NDF:1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2 /NDF: 2884606.5/47
 Right: 862.311 $\pm$ 0.165 χ^2 /NDF: 1274315.7/20
 In: 271.947 $\pm$ 0.043 χ^2 /NDF:7473321.5/31
 Out: 276.916 $\pm$ 0.042 χ^2 /NDF:9734728.1/36
 All: 274.480 $\pm$ 0.030 χ^2 /NDF: 17214814.3/68

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -19.493 ± 75.749 χ^2/NDF : 3.4/8

Left Out: 44.602 ± 13.824 χ^2/NDF : 53.9/24

Right Out: -97.996 ± 69.611 χ^2/NDF : 23.6/11

Left In: 72.037 ± 14.296 χ^2/NDF : 25.3/22

Left: 57.859 ± 9.938 χ^2/NDF : 81.1/47

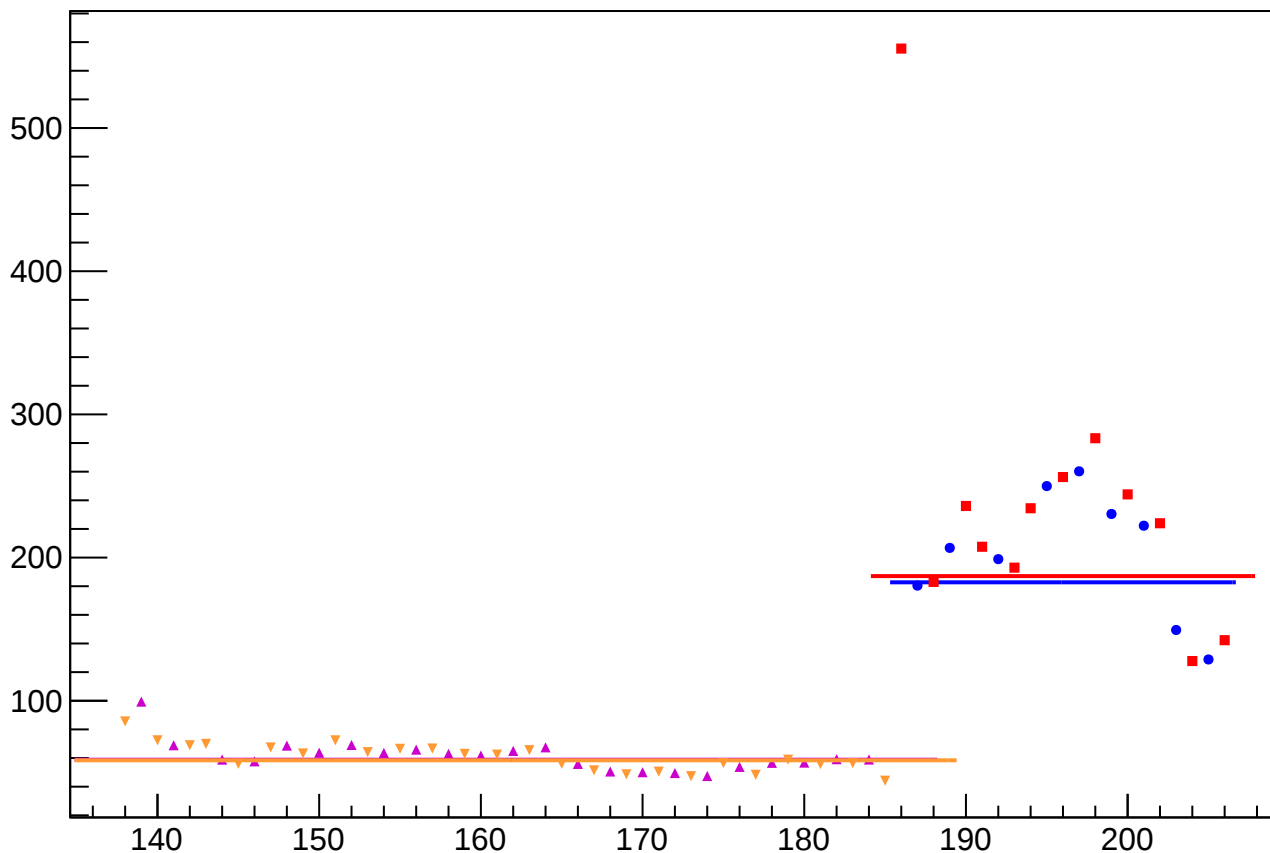
Right: -62.053 ± 51.255 χ^2/NDF : 27.6/20

In: 68.889 ± 14.048 χ^2/NDF : 30.1/31

Out: 39.191 ± 13.559 χ^2/NDF : 81.5/36

All: 53.514 ± 9.756 χ^2/NDF : 113.9/68

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 182.723 $\pm$ 0.054 χ^2 /NDF: 746787.5/8

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 187.067 $\pm$ 0.049 χ^2 /NDF: 1326658.9/11

Left In: 58.840 $\pm$ 0.010 χ^2 /NDF: 679925.7/22

Left: 58.624 $\pm$ 0.007 χ^2 /NDF: 1470896.0/47

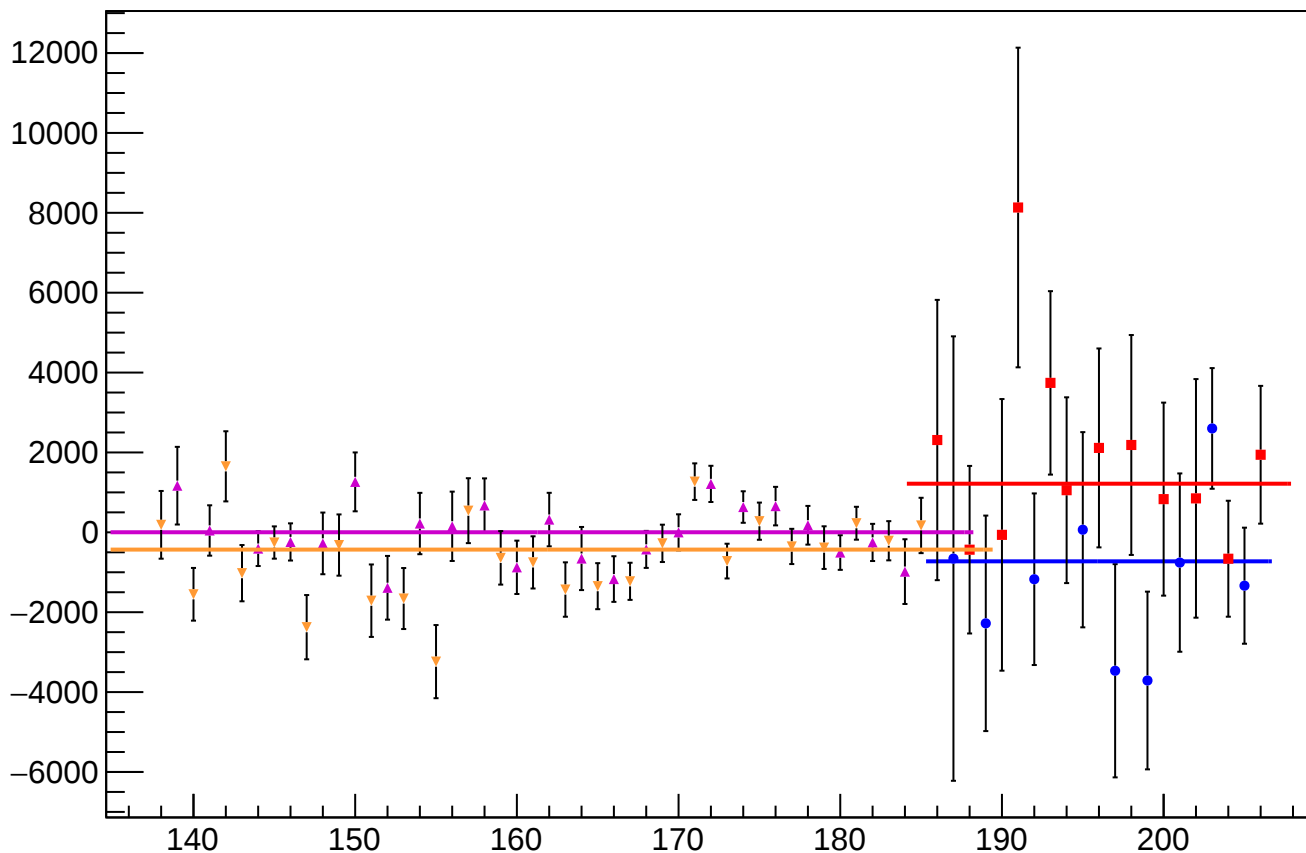
Right: 185.078 $\pm$ 0.036 χ^2 /NDF: 2077011.4/20

In: 63.101 $\pm$ 0.010 χ^2 /NDF: 6592117.8/31

Out: 63.304 $\pm$ 0.010 χ^2 /NDF: 8688048.7/36

All: 63.206 $\pm$ 0.007 χ^2 /NDF: 15280383.0/68

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -726.210 ± 705.573 $\chi^2/\text{NDF}: 8.4/8$

Left Out: -432.330 ± 114.408 $\chi^2/\text{NDF}: 59.4/24$

Right Out: 1217.496 ± 671.309 $\chi^2/\text{NDF}: 7.2/11$

Left In: 1.825 ± 116.459 $\chi^2/\text{NDF}: 32.3/22$

Left: -219.109 ± 81.614 $\chi^2/\text{NDF}: 98.8/47$

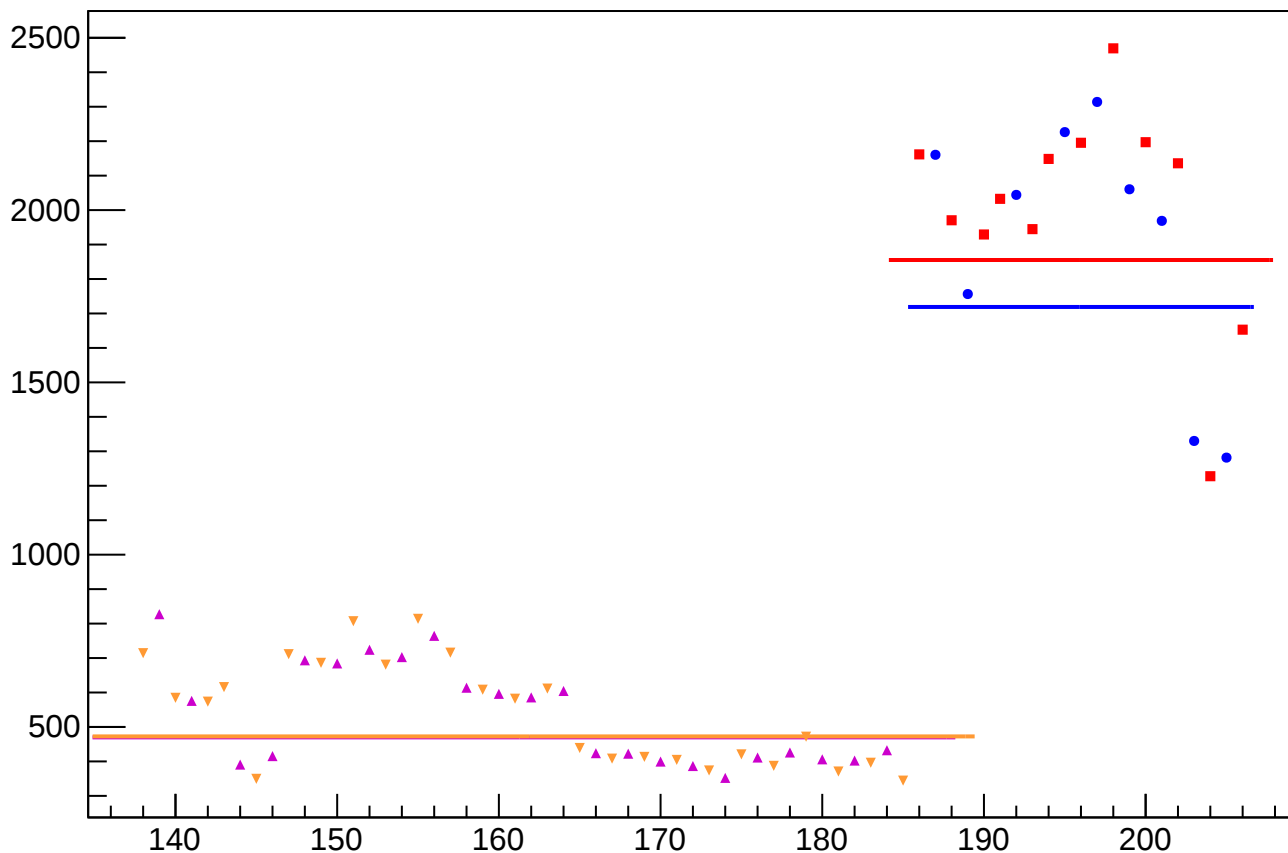
Right: 293.983 ± 486.349 $\chi^2/\text{NDF}: 19.5/20$

In: -17.483 ± 114.904 $\chi^2/\text{NDF}: 41.7/31$

Out: -385.764 ± 112.782 $\chi^2/\text{NDF}: 72.5/36$

All: -205.056 ± 80.489 $\chi^2/\text{NDF}: 119.4/68$

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1718.887 $\pm$ 0.499 χ^2 /NDF: 630241.4/8

Left Out: 472.569 $\pm$ 0.081 χ^2 /NDF: 2508168.9/24

Right Out: 1855.166 $\pm$ 0.475 χ^2 /NDF: 656791.0/11

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

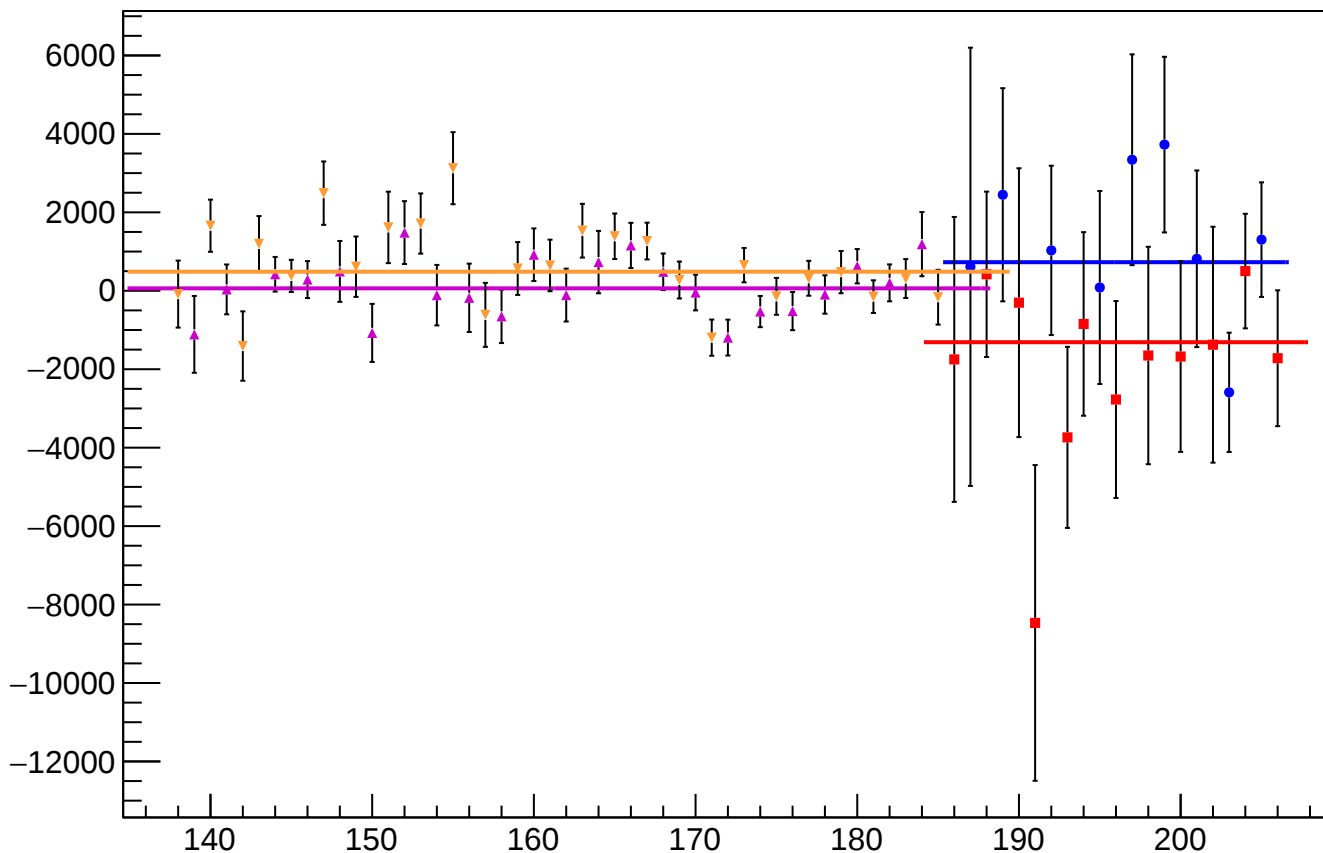
Right: 1790.416 $\pm$ 0.344 χ^2 /NDF: 1326193.7/20

In: 502.889 $\pm$ 0.081 χ^2 /NDF: 8849298.0/31

Out: 511.593 $\pm$ 0.080 χ^2 /NDF: 11409041.7/36

All: 507.322 $\pm$ 0.057 χ^2 /NDF: 20264184.2/68

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 728.735 $\pm$ 710.072 χ^2 /NDF: 8.1/8

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -1311.219 $\pm$ 675.913 χ^2 /NDF: 7.1/11

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

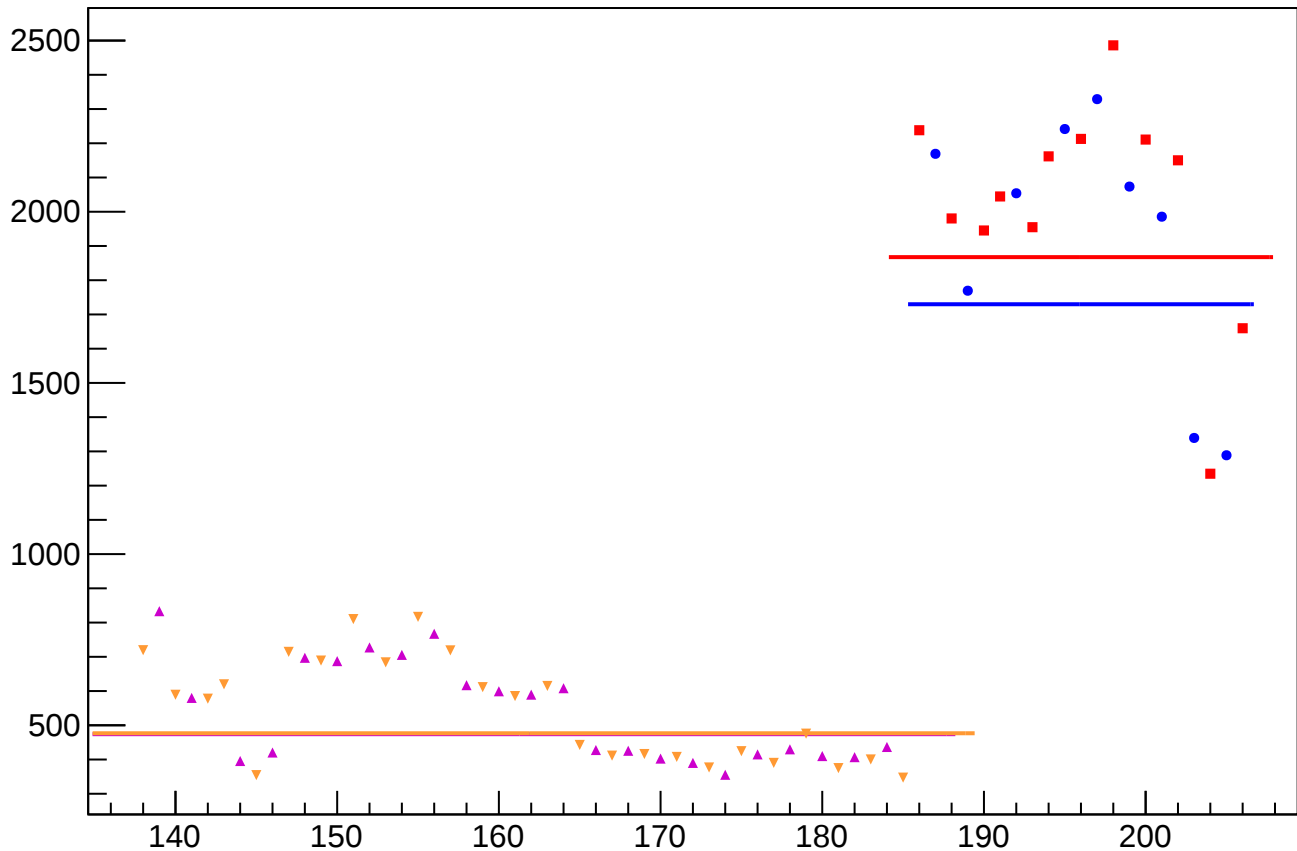
Right: -341.488 $\pm$ 489.573 χ^2 /NDF: 19.5/20

In: 79.536 $\pm$ 115.874 χ^2 /NDF:40.2/31

Out: 435.769 $\pm$ 113.702 χ^2 /NDF:70.0/36

All: 261.023 $\pm$ 81.157 χ^2 /NDF: 114.9/68

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1729.811+/-0.502 χ^2/NDF : 630997.4/8

Left Out: 476.690+/-0.082 χ^2/NDF : 2472737.6/24

Right Out: 1867.432+/-0.478 χ^2/NDF : 665197.8/11

Left In: 473.983+/-0.083 χ^2/NDF : 2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47

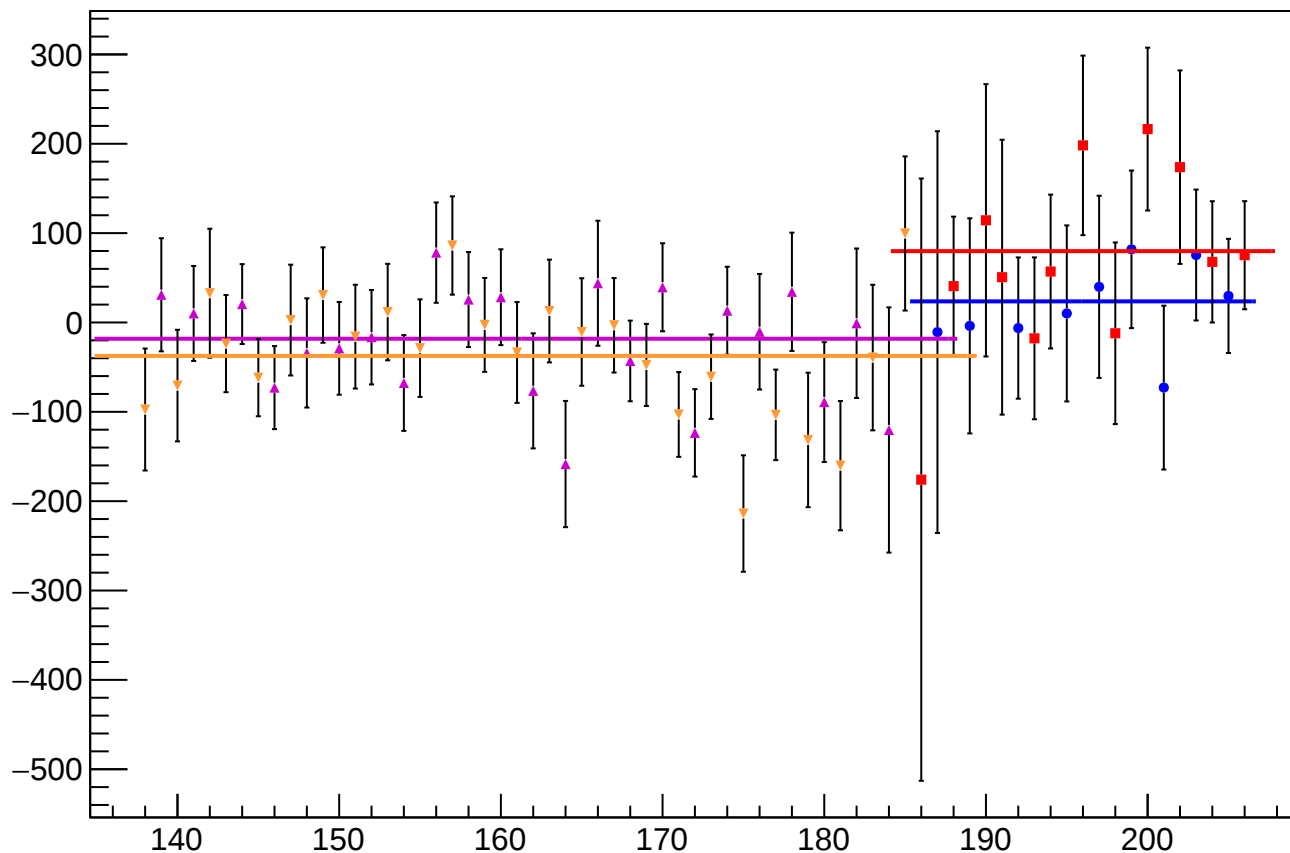
Right: 1802.011+/-0.346 χ^2/NDF : 1335609.1/20

In: 507.426+/-0.082 χ^2/NDF : 8807354.6/31

Out: 516.045+/-0.080 χ^2/NDF : 11365568.2/36

All: 511.817+/-0.057 χ^2/NDF : 20178560.7/68

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 23.609 $\pm$ 29.791 χ^2 /NDF: 2.3/8

Left Out: -37.413 $\pm$ 11.390 χ^2 /NDF:30.5/24

Right Out: 79.838 $\pm$ 26.646 χ^2 /NDF: 7.4/11

Left In: -18.210 $\pm$ 11.788 χ^2 /NDF:23.0/22

Left: -28.141 $\pm$ 8.191 χ^2 /NDF: 54.8/47

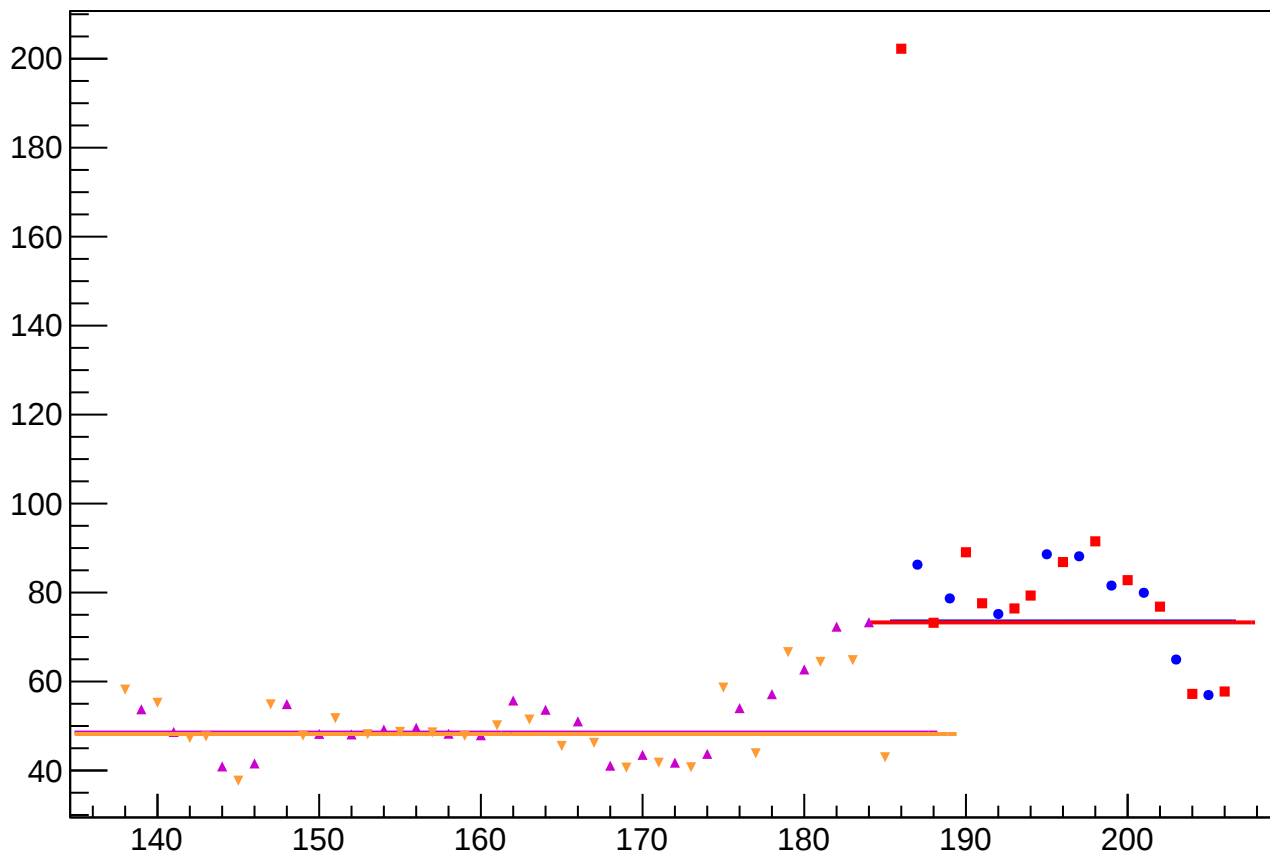
Right: 54.846 $\pm$ 19.861 χ^2 /NDF: 11.7/20

In: -12.549 $\pm$ 10.961 χ^2 /NDF:27.0/31

Out: -19.300 $\pm$ 10.473 χ^2 /NDF:54.2/36

All: -16.078 $\pm$ 7.572 χ^2 /NDF: 81.4/68

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 73.503 $\pm$ 0.021 χ^2 /NDF: 287196.3/8

Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24

Right Out: 73.287 $\pm$ 0.019 χ^2 /NDF: 696676.9/11

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

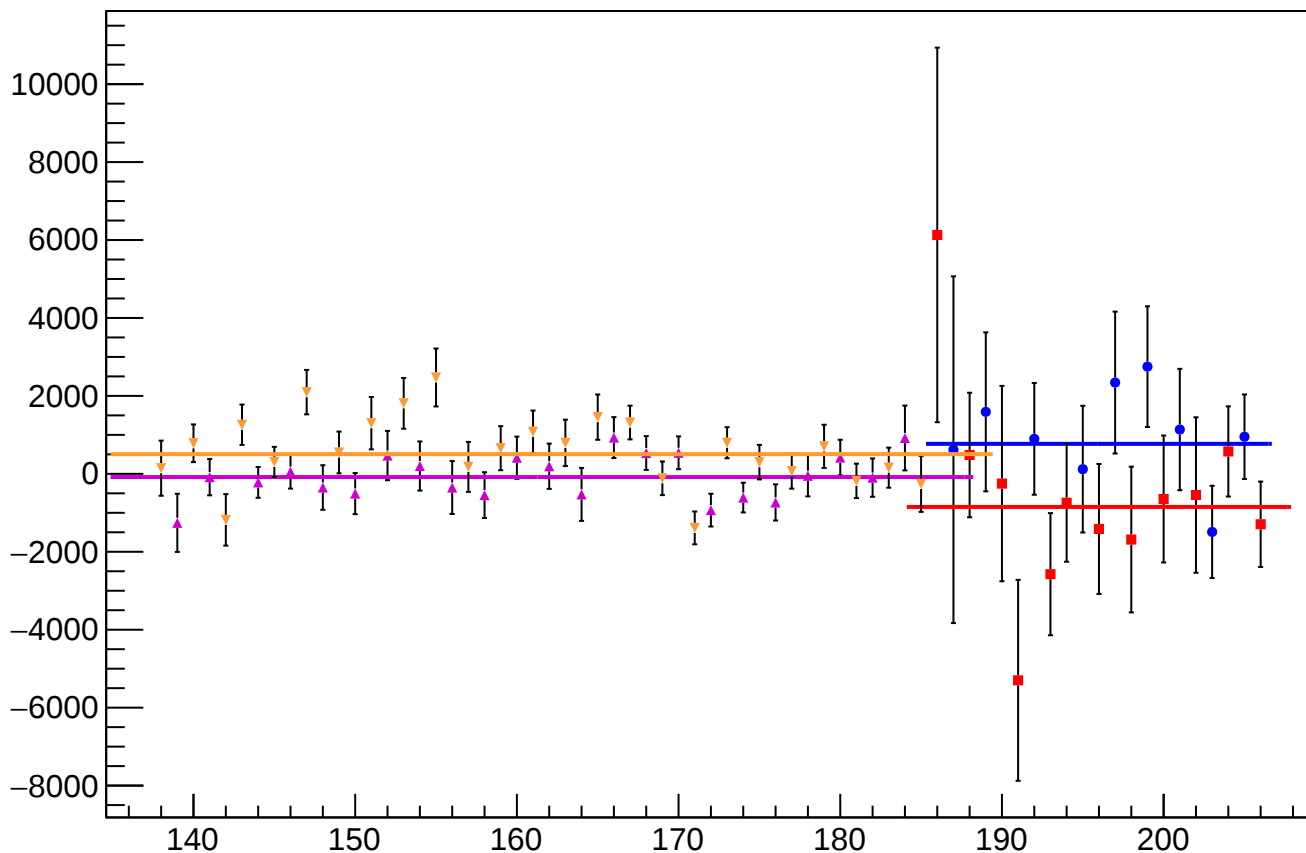
Right: 73.383 $\pm$ 0.014 χ^2 /NDF: 983931.5/20

In: 51.908 $\pm$ 0.008 χ^2 /NDF: 2178051.2/31

Out: 52.075 $\pm$ 0.007 χ^2 /NDF: 2945874.1/36

All: 51.995 $\pm$ 0.005 χ^2 /NDF: 5124168.9/68

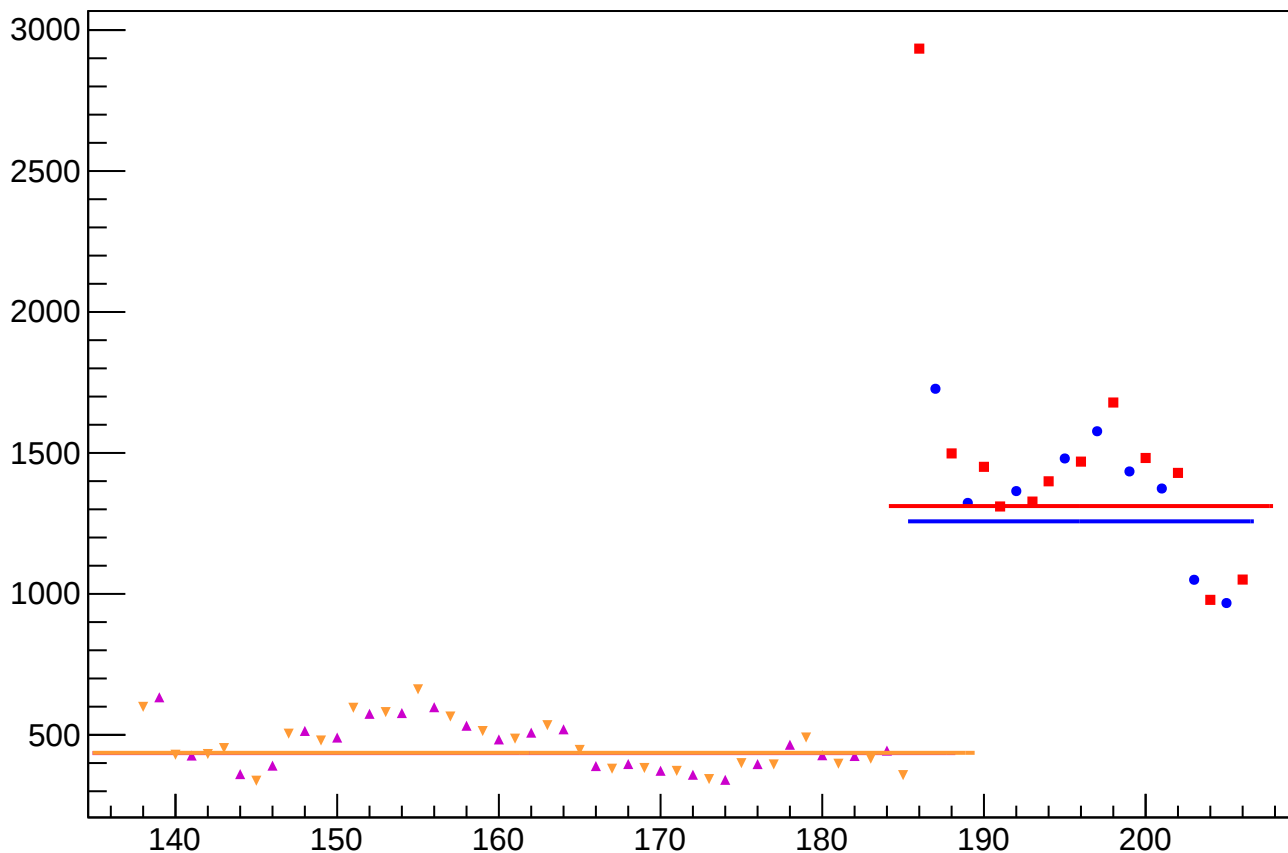
asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 769.966 $\pm$ 509.615 χ^2 /NDF: 6.4/8
 Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF:65.7/24
 Right Out: -849.395 $\pm$ 474.481 χ^2 /NDF: 9.1/11
 Left In: -82.421 $\pm$ 105.935 χ^2 /NDF:25.3/22

Left: 218.827 $\pm$ 74.020 χ^2 /NDF: 106.9/47
 Right: -97.454 $\pm$ 347.266 χ^2 /NDF: 20.9/20
 In: -47.114 $\pm$ 103.718 χ^2 /NDF:34.5/31
 Out: 444.669 $\pm$ 101.092 χ^2 /NDF:82.6/36
 All: 205.082 $\pm$ 72.393 χ^2 /NDF: 128.6/68

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1257.398 $\pm$ 0.360 χ^2 /NDF: 376328.0/8

Left Out: 436.301 $\pm$ 0.073 χ^2 /NDF:1179348.4/24

Right Out: 1311.586 $\pm$ 0.336 χ^2 /NDF: 671016.2/11

Left In: 435.275 $\pm$ 0.075 χ^2 /NDF:1027713.1/22

Left: 435.800 $\pm$ 0.052 χ^2 /NDF: 2207157.7/47

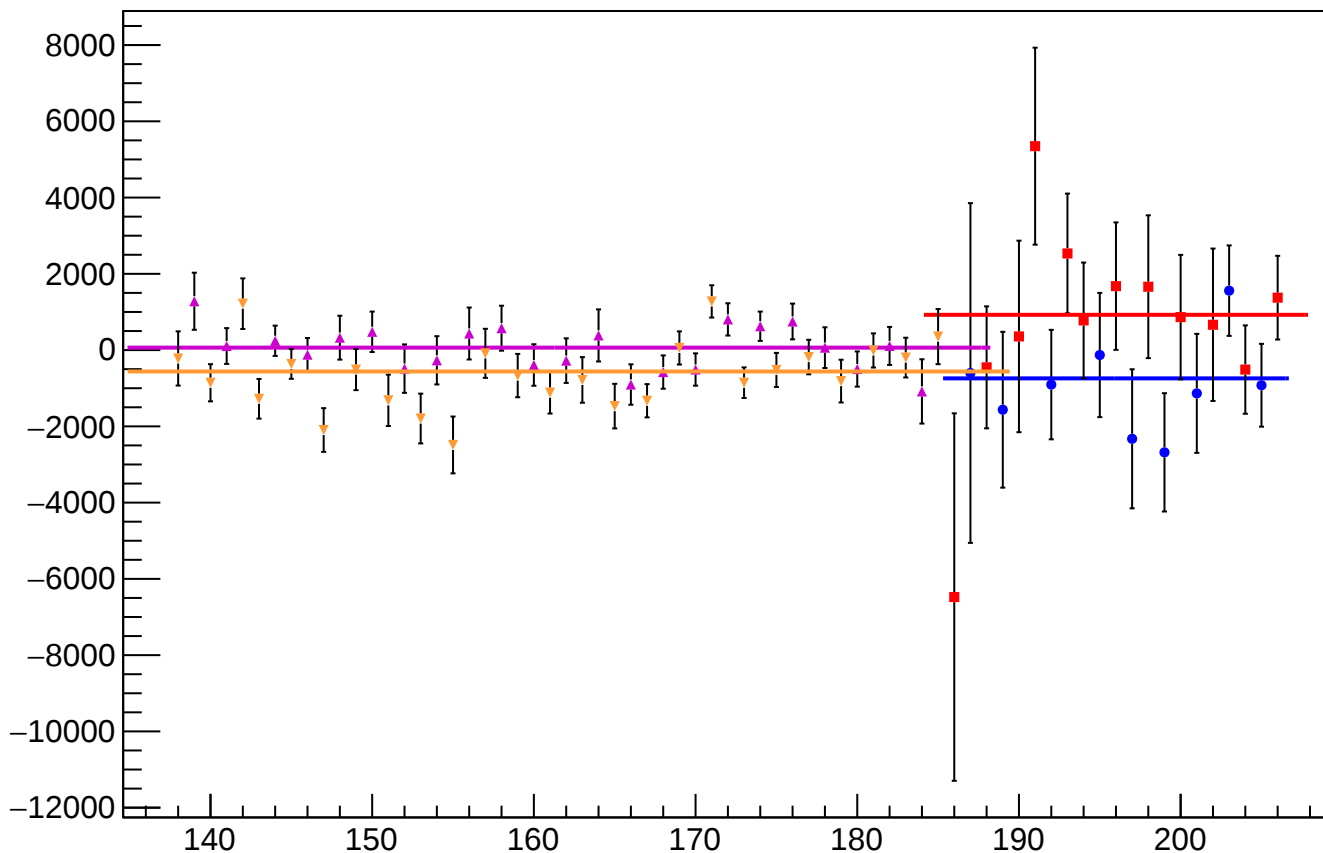
Right: 1286.424 $\pm$ 0.246 χ^2 /NDF: 1059456.5/20

In: 469.329 $\pm$ 0.073 χ^2 /NDF:6393437.6/31

Out: 476.034 $\pm$ 0.071 χ^2 /NDF:8347391.3/36

All: 472.767 $\pm$ 0.051 χ^2 /NDF: 14745115.7/68

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -741.552 $\pm$ 510.552 χ^2 /NDF: 6.5/8

Left Out: -560.684 $\pm$ 104.207 χ^2 /NDF:61.8/24

Right Out: 925.280 $\pm$ 475.296 χ^2 /NDF: 9.2/11

Left In: 64.594 $\pm$ 106.708 χ^2 /NDF:25.2/22

Left: -255.457 $\pm$ 74.554 χ^2 /NDF: 104.5/47

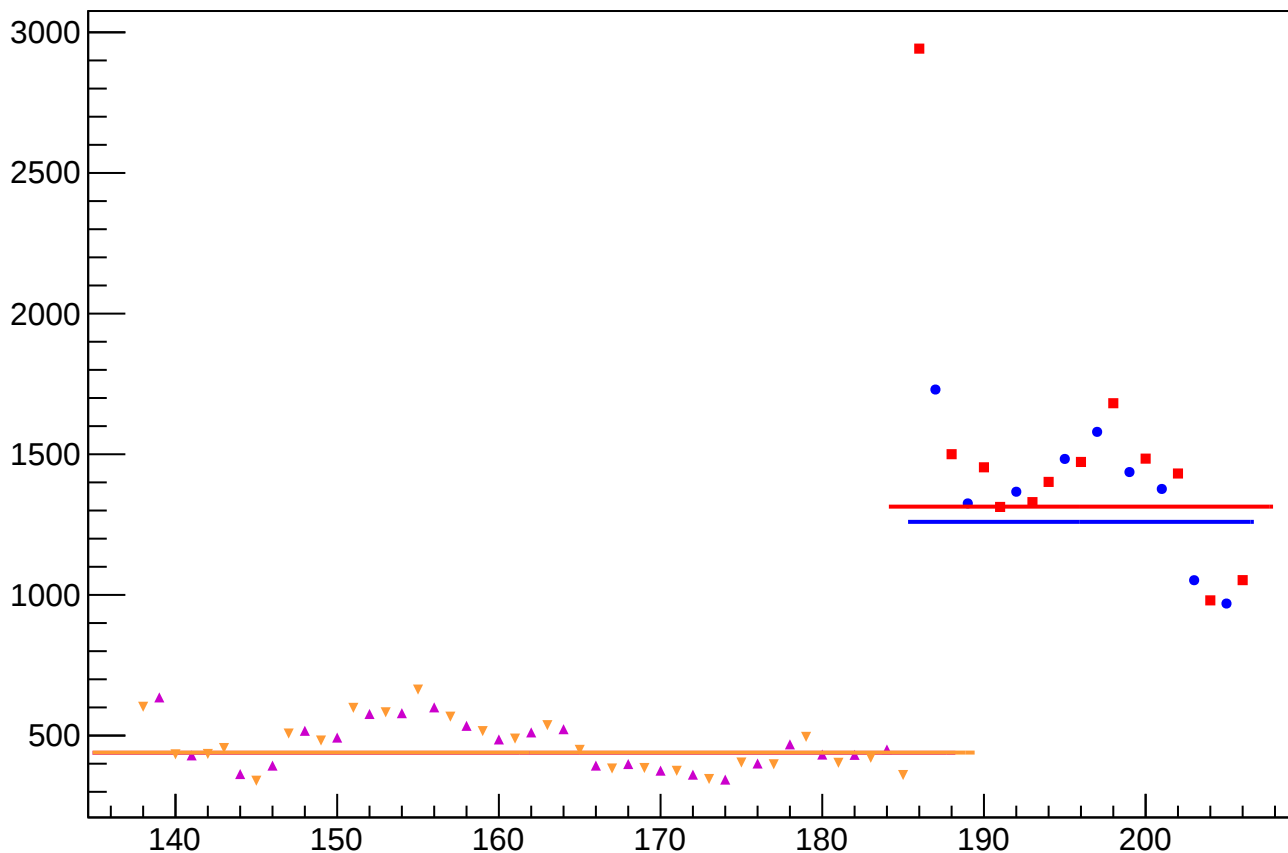
Right: 151.398 $\pm$ 347.882 χ^2 /NDF: 21.4/20

In: 30.853 $\pm$ 104.451 χ^2 /NDF:34.1/31

Out: -492.531 $\pm$ 101.789 χ^2 /NDF:80.3/36

All: -237.591 $\pm$ 72.899 χ^2 /NDF: 127.2/68

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1259.733 $\pm$ 0.361 χ^2 /NDF: 376092.3/8

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF: 1163352.8/24

Right Out: 1313.830 $\pm$ 0.336 χ^2 /NDF: 671301.0/11

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

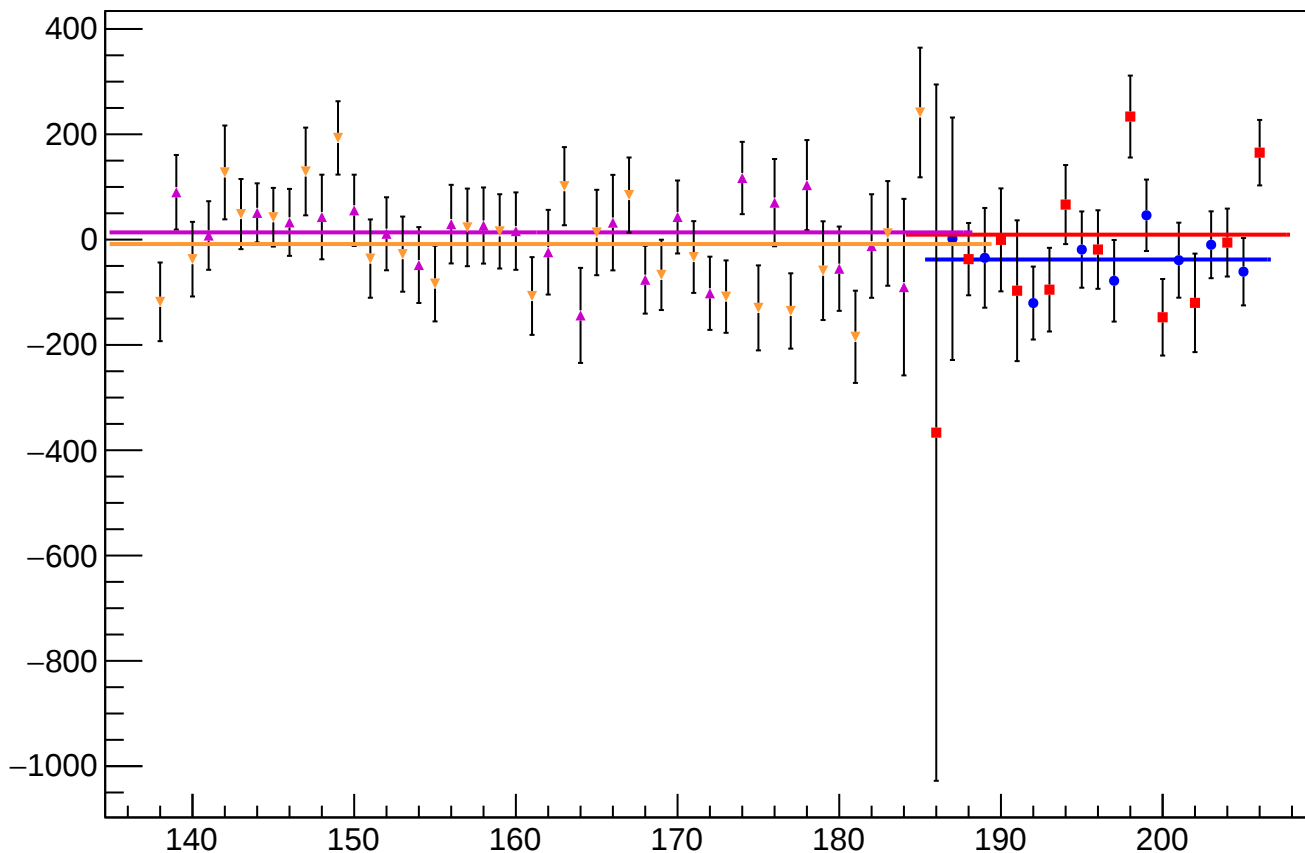
Right: 1288.714 $\pm$ 0.246 χ^2 /NDF: 1059422.5/20

In: 472.918 $\pm$ 0.074 χ^2 /NDF: 6346669.3/31

Out: 479.626 $\pm$ 0.072 χ^2 /NDF: 8291726.0/36

All: 476.359 $\pm$ 0.052 χ^2 /NDF: 14642626.8/68

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -37.783 ± 24.981 χ^2/NDF : 3.7/8

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: 9.428 ± 23.195 χ^2/NDF : 25.1/11

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

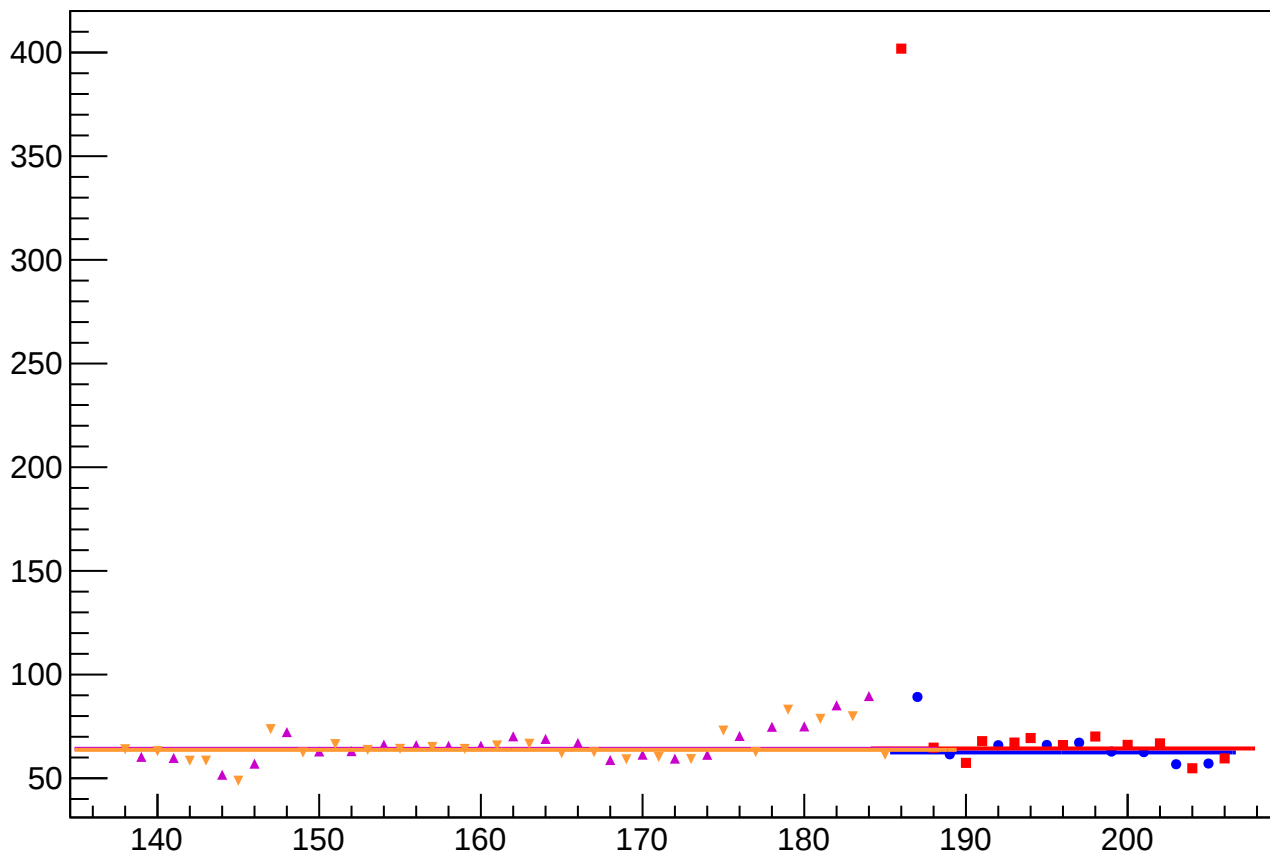
Right: -12.430 ± 16.998 χ^2/NDF : 30.7/20

In: -0.565 ± 13.157 χ^2/NDF : 23.0/31

Out: -3.186 ± 12.557 χ^2/NDF : 67.1/36

All: -1.937 ± 9.084 χ^2/NDF : 90.1/68

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 62.452 $\pm$ 0.018 χ^2 /NDF: 74809.3/8

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 64.361 $\pm$ 0.016 χ^2 /NDF: 614276.9/11

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

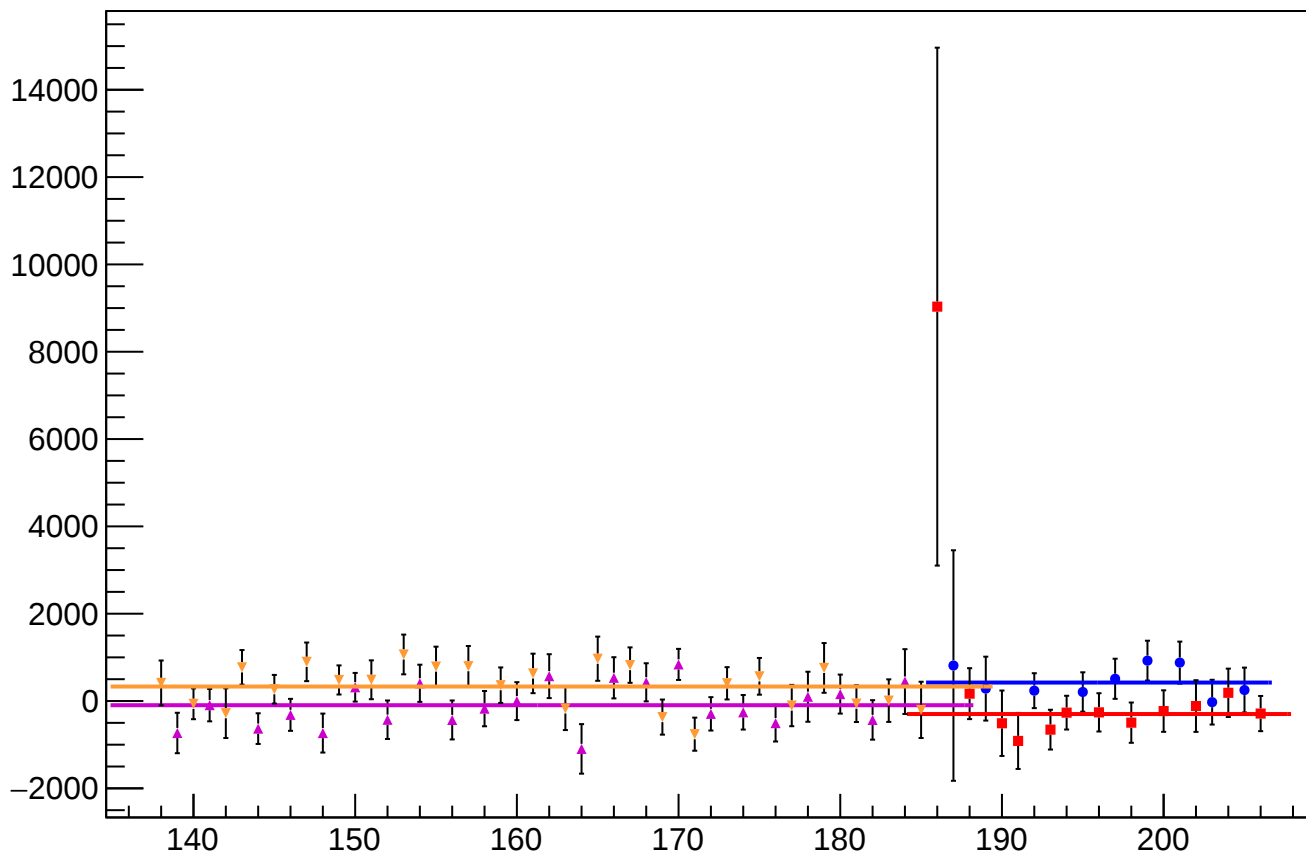
Right: 63.477 $\pm$ 0.012 χ^2 /NDF: 695360.5/20

In: 63.707 $\pm$ 0.009 χ^2 /NDF: 511470.2/31

Out: 63.891 $\pm$ 0.009 χ^2 /NDF: 1063878.6/36

All: 63.803 $\pm$ 0.006 χ^2 /NDF: 1575552.9/68

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 423.091+/-169.926 χ^2/NDF : 3.5/8

Left Out: 331.739+/-86.071 χ^2/NDF :29.9/24

Right Out: -297.953+/-148.612 χ^2/NDF : 5.8/11

Left In: -95.910+/-88.656 χ^2/NDF :28.7/22

Left: 124.240+/-61.755 χ^2/NDF : 70.5/47

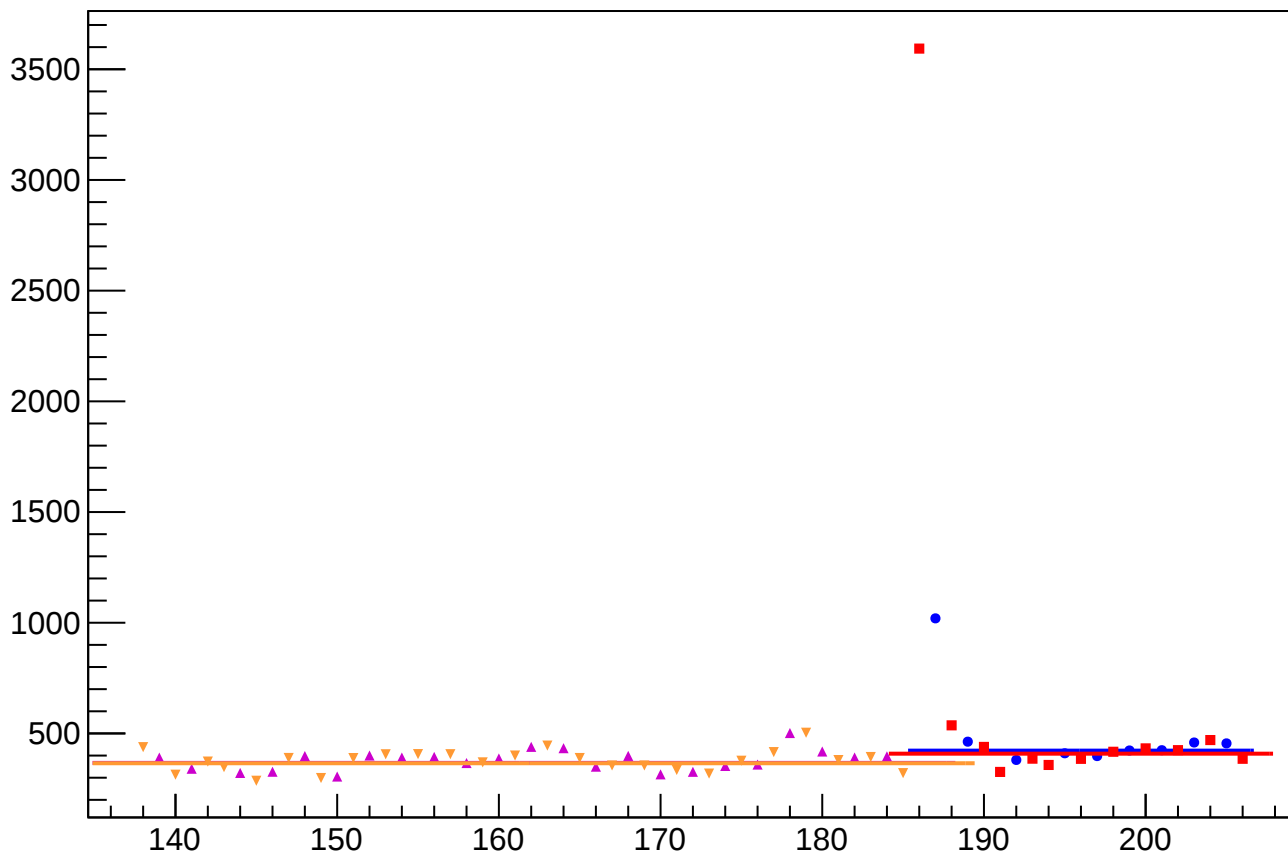
Right: 14.536+/-111.866 χ^2/NDF : 19.5/20

In: 15.137+/-78.601 χ^2/NDF :39.5/31

Out: 173.573+/-74.481 χ^2/NDF :49.1/36

All: 98.616+/-54.064 χ^2/NDF : 90.8/68

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 422.282 $\pm$ 0.120 χ^2 /NDF: 156208.0/8

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 408.579 $\pm$ 0.105 χ^2 /NDF: 793121.8/11

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

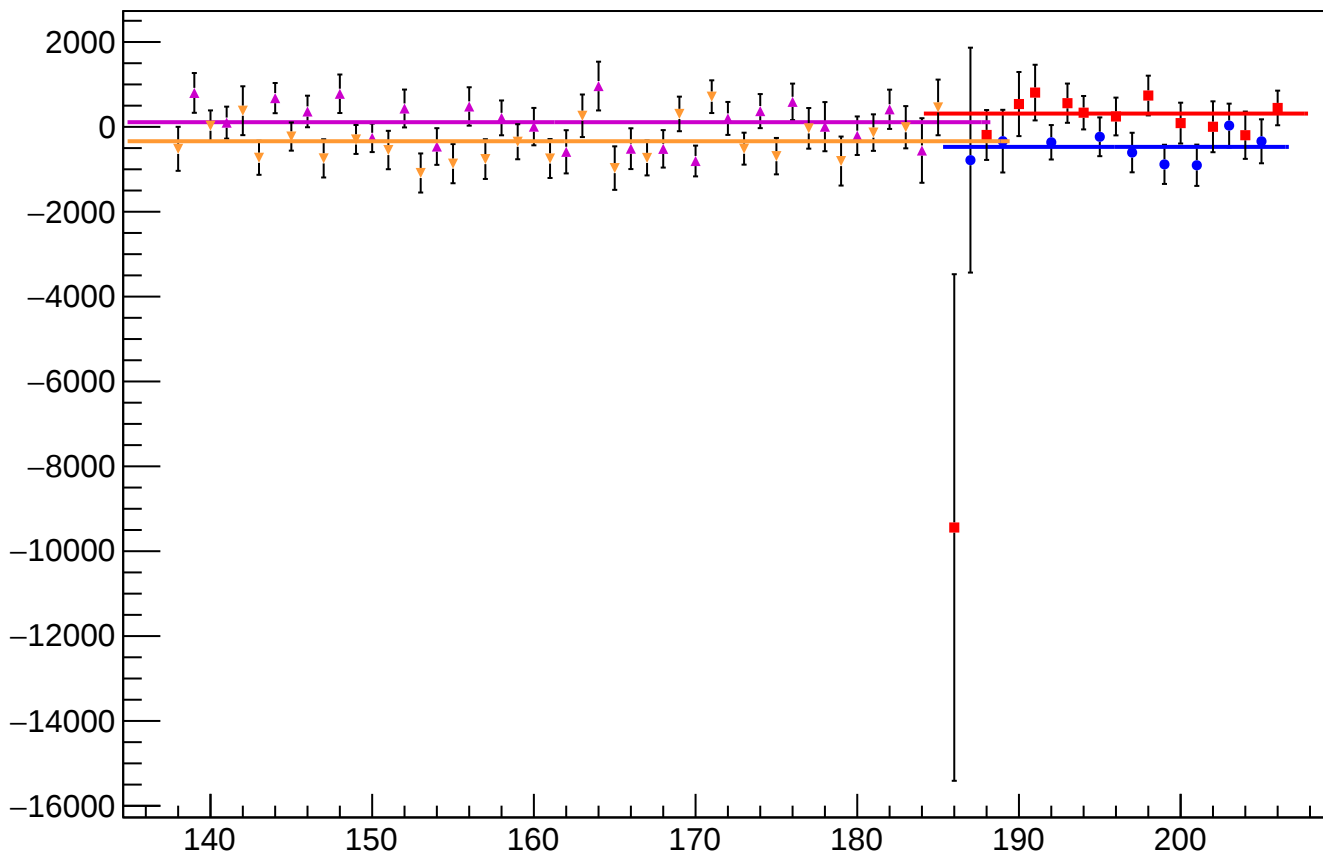
Right: 414.517 $\pm$ 0.079 χ^2 /NDF: 956699.7/20

In: 378.769 $\pm$ 0.056 χ^2 /NDF: 801131.5/31

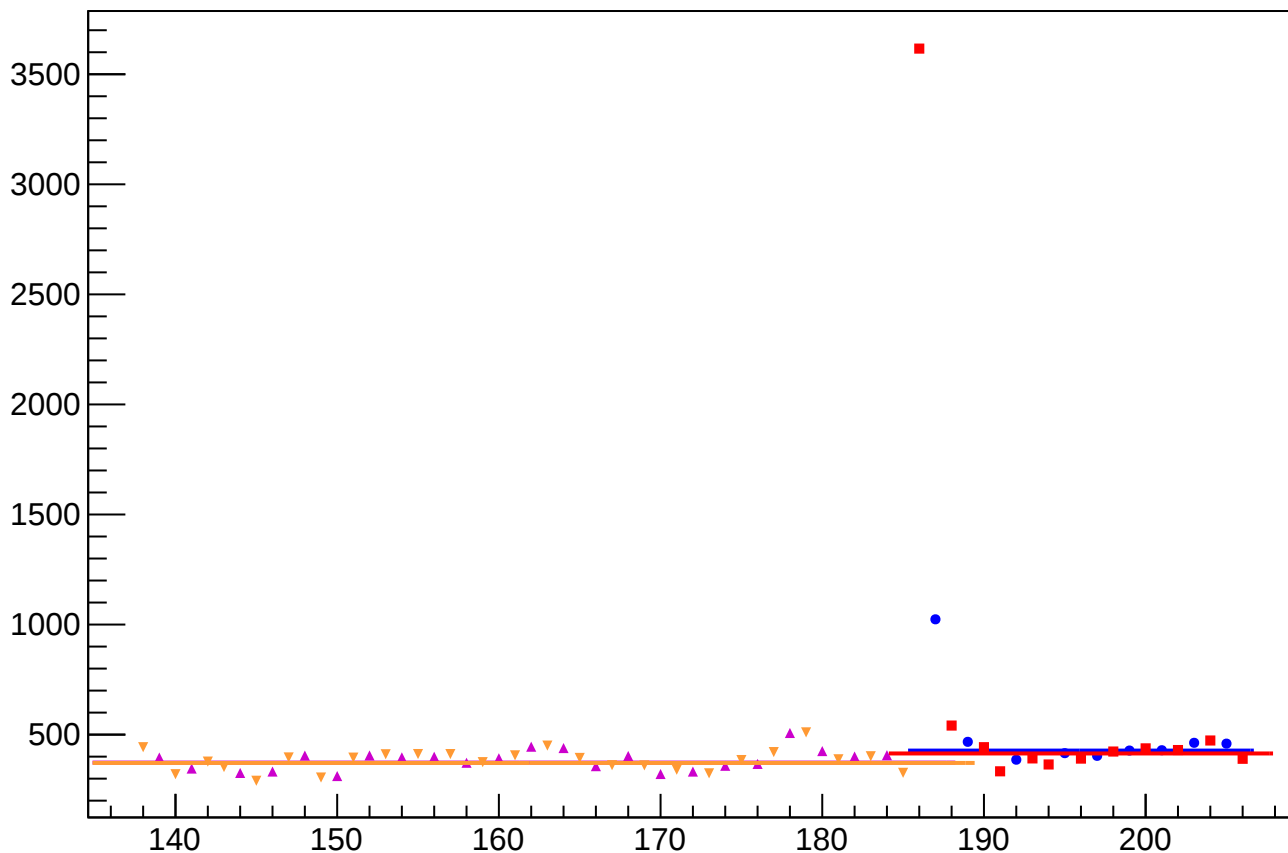
Out: 376.212 $\pm$ 0.053 χ^2 /NDF: 1538264.7/36

All: 377.422 $\pm$ 0.038 χ^2 /NDF: 2340511.4/68

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 427.444+/-0.122 χ^2/NDF : 151257.1/8

Left Out: 371.356+/-0.062 χ^2/NDF : 604070.6/24

Right Out: 414.414+/-0.107 χ^2/NDF : 780593.4/11

Left In: 372.938+/-0.064 χ^2/NDF : 467340.9/22

Left: 372.123+/-0.044 χ^2/NDF : 1071729.1/47

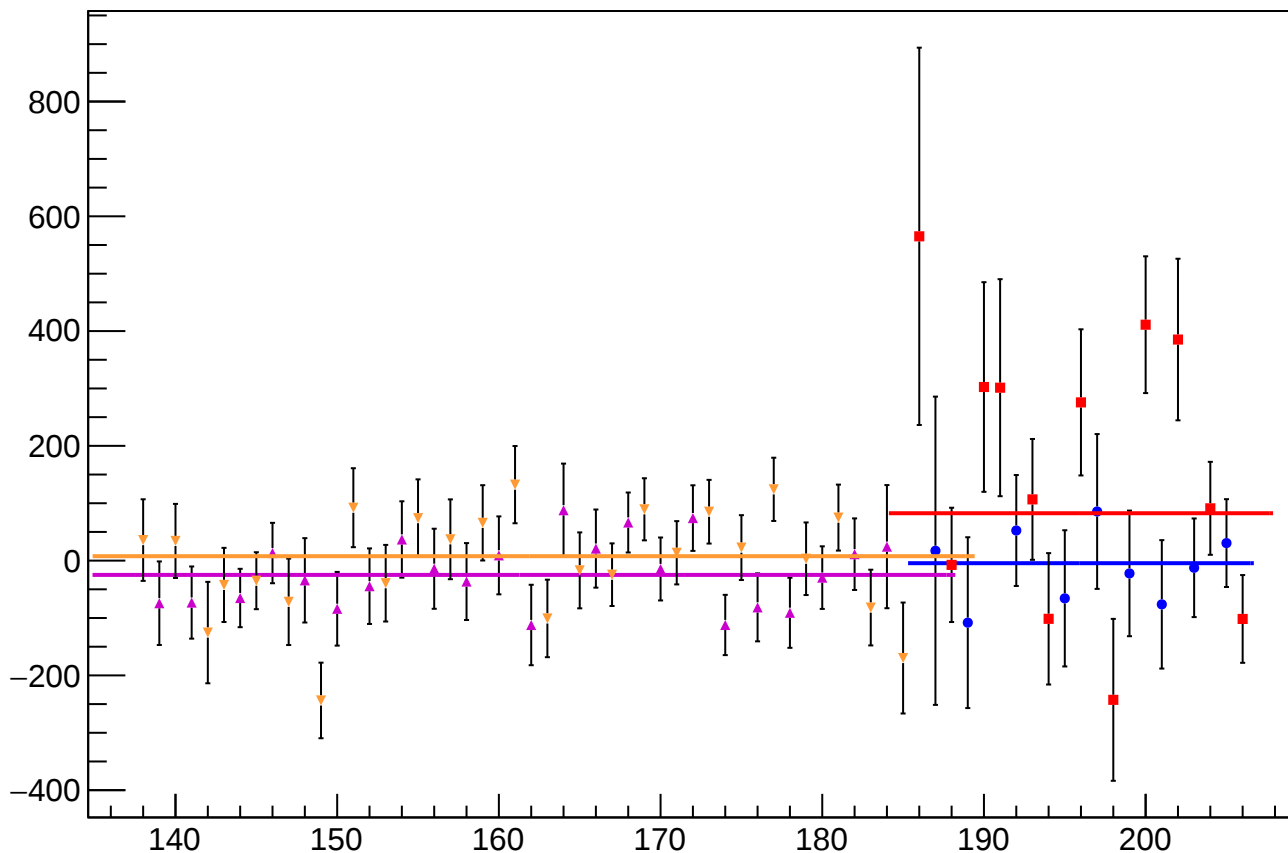
Right: 420.073+/-0.080 χ^2/NDF : 938347.8/20

In: 384.676+/-0.056 χ^2/NDF : 776288.7/31

Out: 382.208+/-0.053 χ^2/NDF : 1506865.4/36

All: 383.376+/-0.039 χ^2/NDF : 2284162.4/68

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -4.463 ± 36.238 $\chi^2/\text{NDF}: 2.2/8$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 82.585 ± 33.505 $\chi^2/\text{NDF}: 34.0/11$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

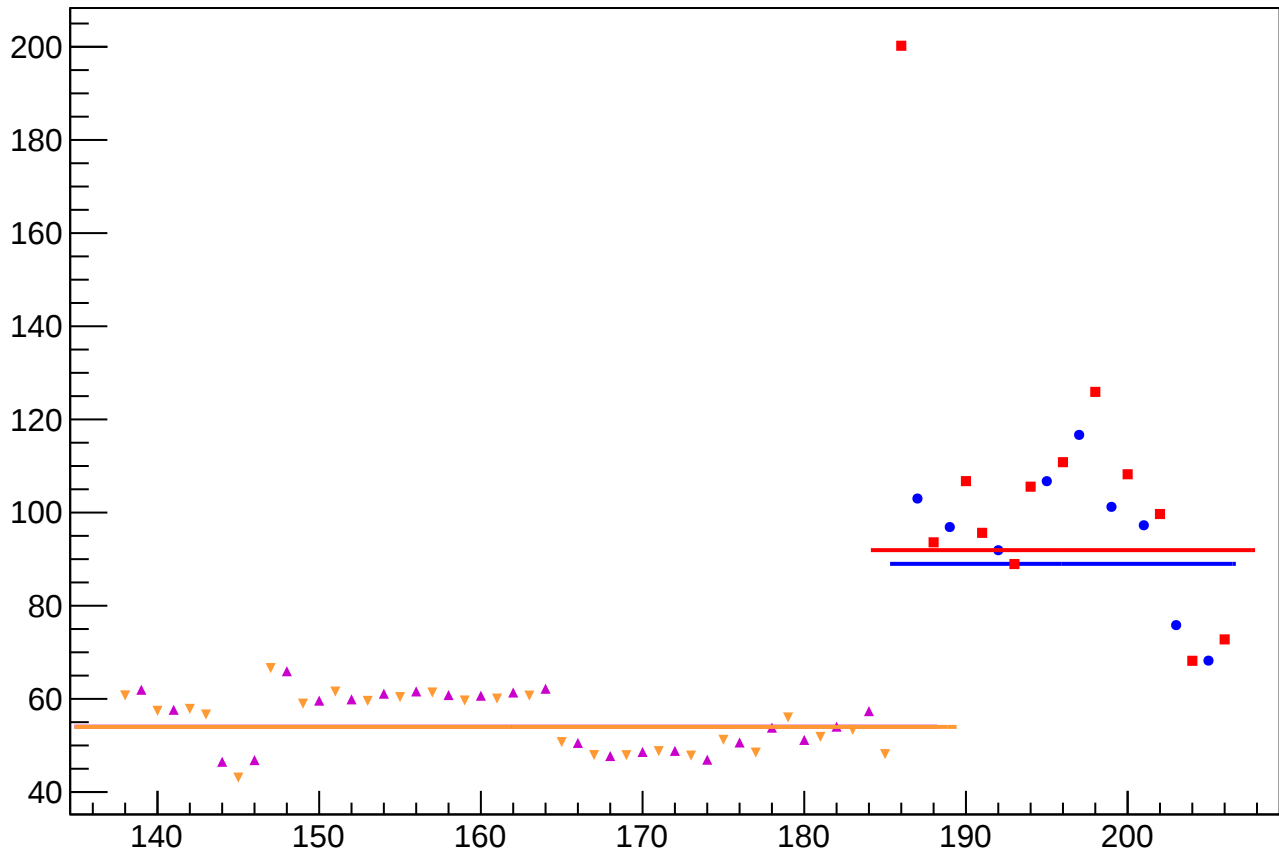
Right: 42.467 ± 24.601 $\chi^2/\text{NDF}: 39.4/20$

In: -22.549 ± 12.260 $\chi^2/\text{NDF}: 22.2/31$

Out: 17.071 ± 11.839 $\chi^2/\text{NDF}: 83.8/36$

All: -2.047 ± 8.517 $\chi^2/\text{NDF}: 111.5/68$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 88.992 $\pm$ 0.026 χ^2 /NDF: 372268.1/8

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 91.936 $\pm$ 0.024 χ^2 /NDF: 762610.2/11

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

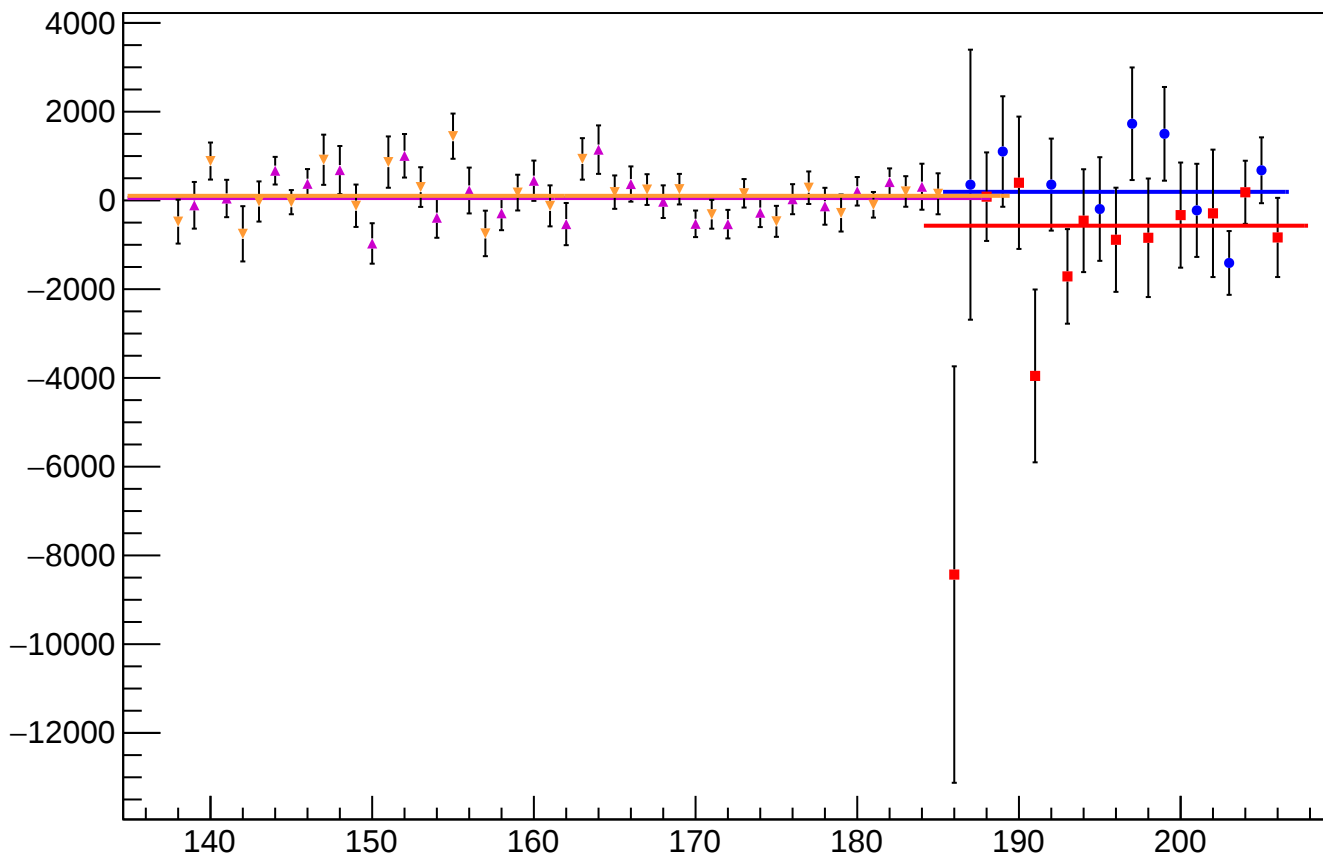
Right: 90.579 $\pm$ 0.017 χ^2 /NDF: 1141995.7/20

In: 58.030 $\pm$ 0.009 χ^2 /NDF: 2464829.5/31

Out: 58.722 $\pm$ 0.008 χ^2 /NDF: 3467343.2/36

All: 58.388 $\pm$ 0.006 χ^2 /NDF: 5935474.6/68

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 193.501 $\pm$ 341.087 χ^2 /NDF: 9.2/8

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -569.550 $\pm$ 331.403 χ^2 /NDF: 9.2/11

Left In: 53.493 $\pm$ 81.201 χ^2 /NDF:34.1/22

Left: 79.212 $\pm$ 56.750 χ^2 /NDF: 65.3/47

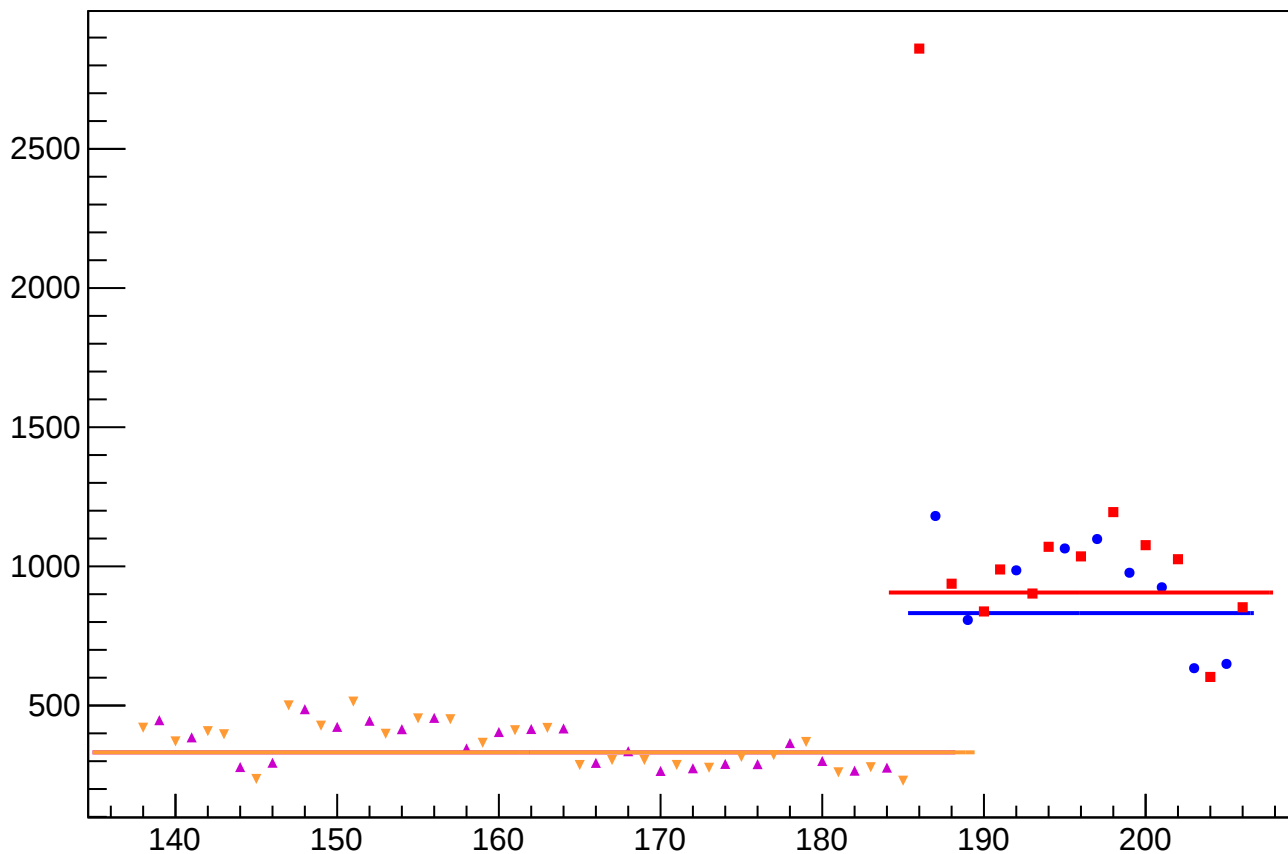
Right: -199.011 $\pm$ 237.687 χ^2 /NDF: 21.0/20

In: 61.002 $\pm$ 78.993 χ^2 /NDF:43.5/31

Out: 67.264 $\pm$ 77.163 χ^2 /NDF:44.1/36

All: 64.207 $\pm$ 55.198 χ^2 /NDF: 87.6/68

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 832.071+/-0.241 χ^2/NDF : 564267.5/8

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 906.044+/-0.234 χ^2/NDF : 940941.9/11

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

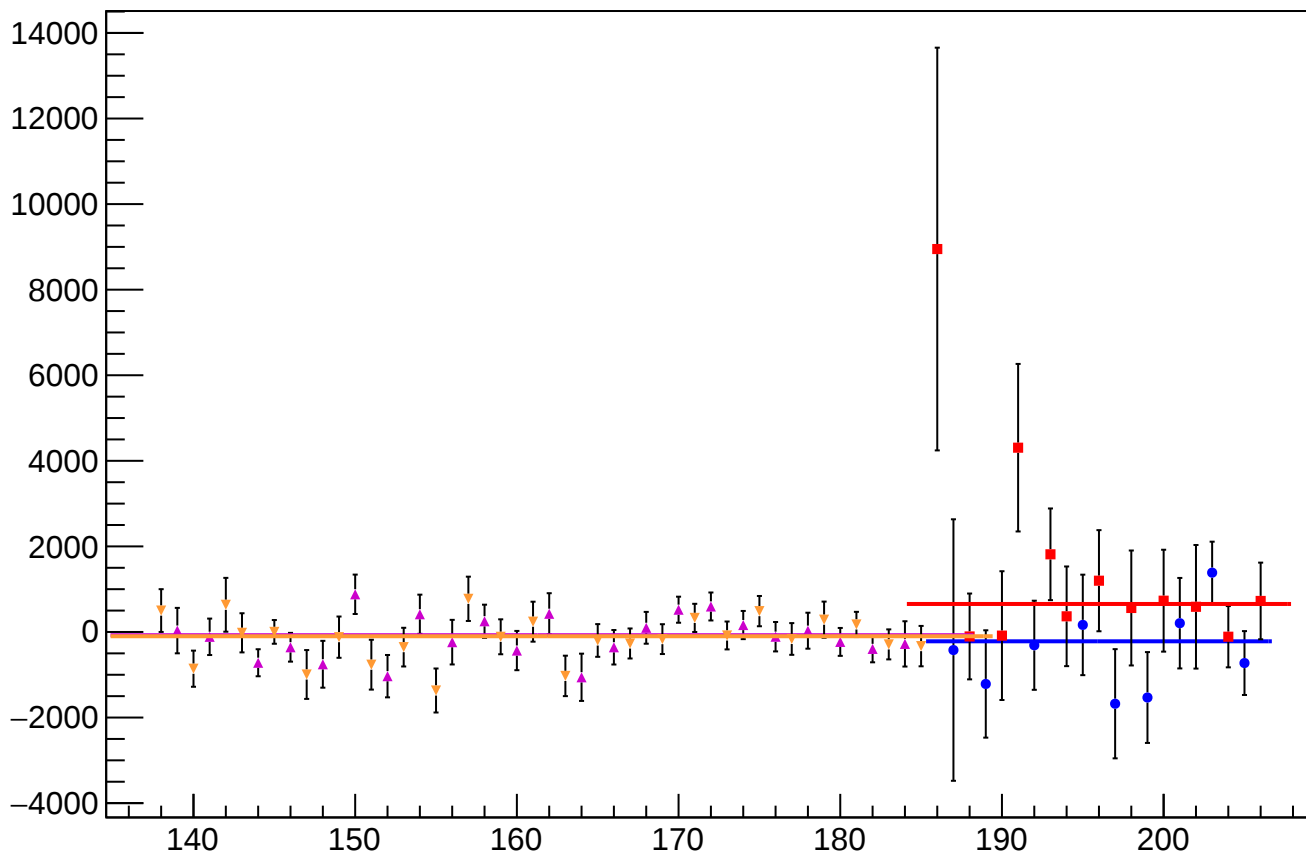
Right: 870.123+/-0.168 χ^2/NDF : 1553597.4/20

In: 358.505+/-0.056 χ^2/NDF : 5941278.2/31

Out: 362.904+/-0.055 χ^2/NDF : 8332662.8/36

All: 360.756+/-0.039 χ^2/NDF : 14277114.4/68

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -218.051 ± 343.252 χ^2/NDF : 9.1/8

Left Out: -99.785 ± 80.428 χ^2/NDF : 30.7/24

Right Out: 654.513 ± 333.295 χ^2/NDF : 10.0/11

Left In: -75.579 ± 82.319 χ^2/NDF : 32.1/22

Left: -87.963 ± 57.528 χ^2/NDF : 62.8/47

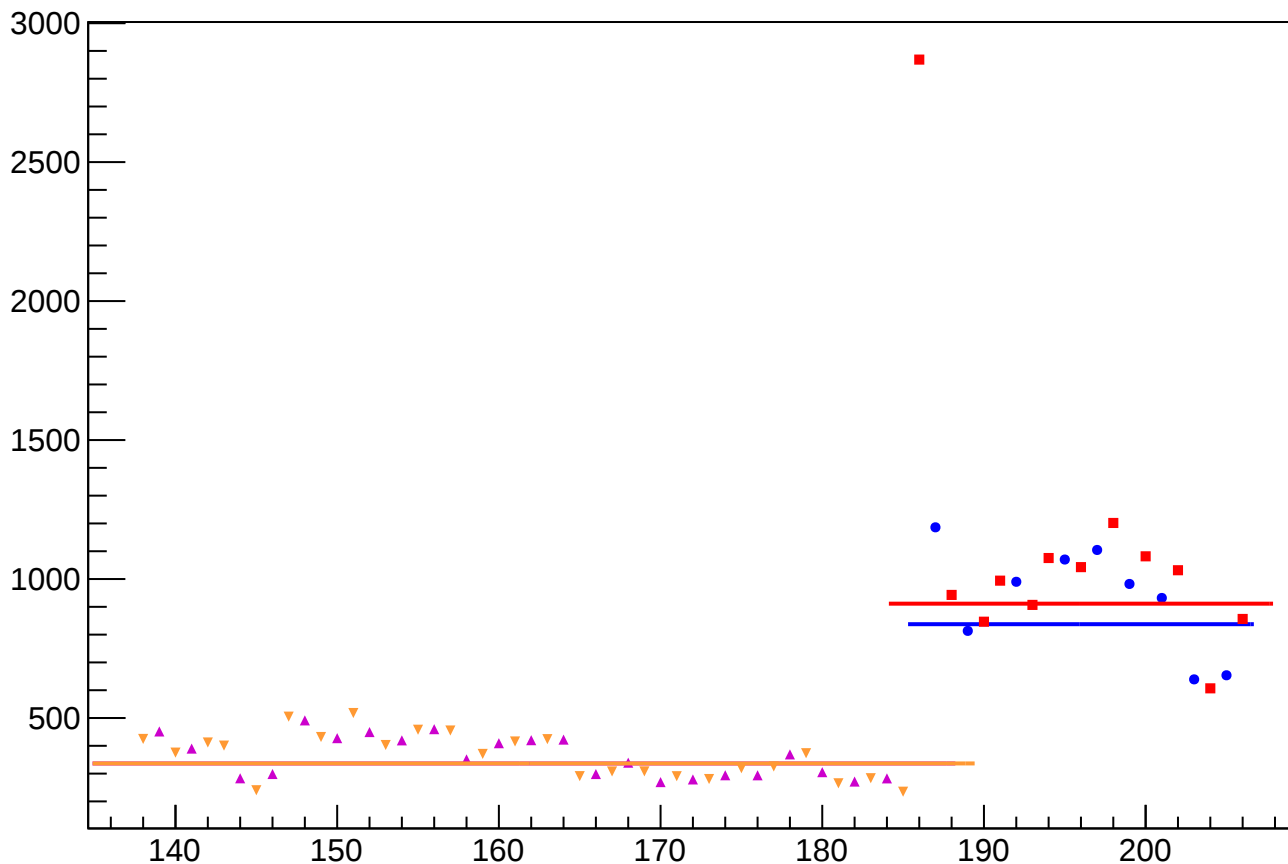
Right: 231.070 ± 239.118 χ^2/NDF : 22.5/20

In: -83.328 ± 80.049 χ^2/NDF : 41.4/31

Out: -58.278 ± 78.184 χ^2/NDF : 45.5/36

All: -70.508 ± 55.932 χ^2/NDF : 86.9/68

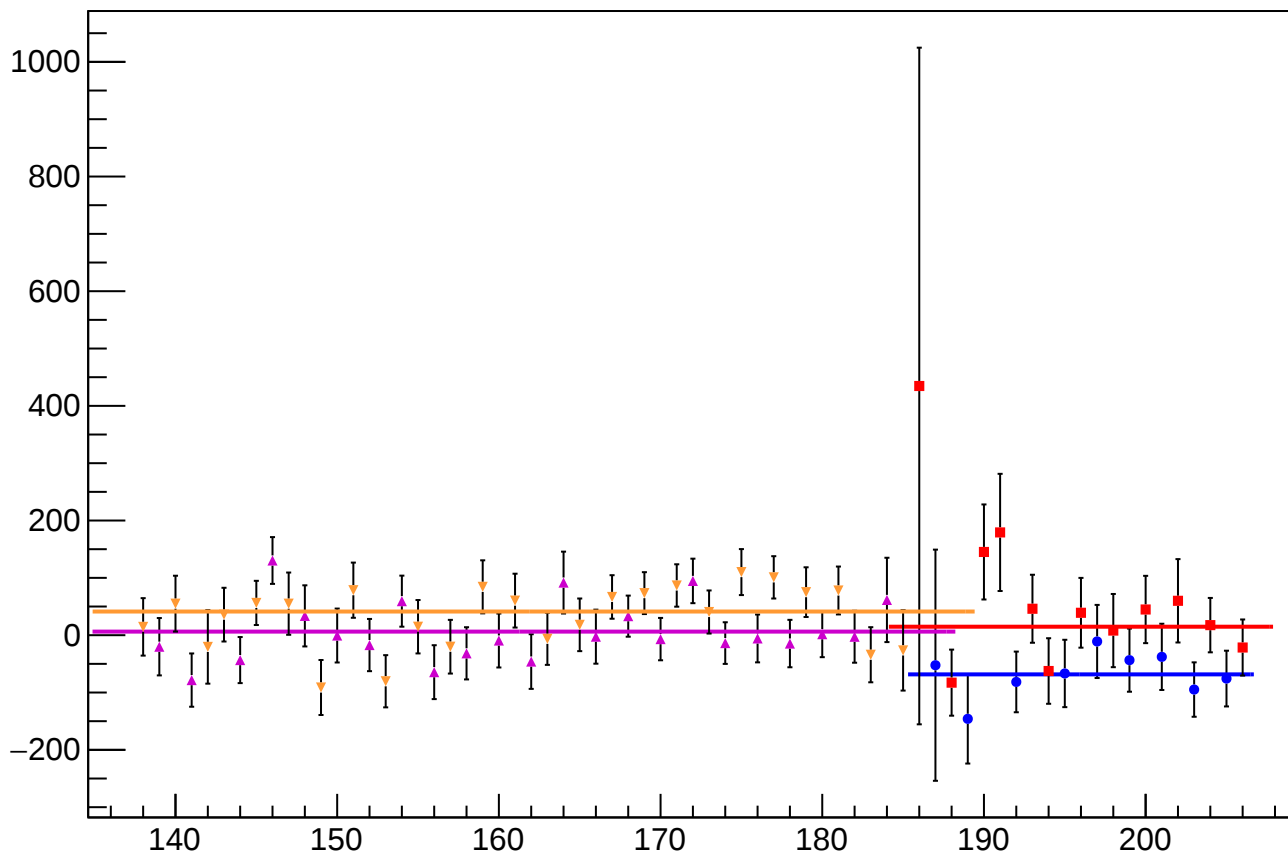
asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 837.535 $\pm$ 0.243 χ^2 /NDF: 560451.4/8
 Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF:1665919.4/24
 Right Out: 911.372 $\pm$ 0.236 χ^2 /NDF: 937507.5/11
 Left In: 336.439 $\pm$ 0.058 χ^2 /NDF:1269066.3/22

Left: 336.500 $\pm$ 0.041 χ^2 /NDF: 2934987.9/47
 Right: 875.540 $\pm$ 0.169 χ^2 /NDF: 1545593.3/20
 In: 363.692 $\pm$ 0.057 χ^2 /NDF:5860018.5/31
 Out: 368.188 $\pm$ 0.055 χ^2 /NDF:8224869.0/36
 All: 365.993 $\pm$ 0.040 χ^2 /NDF: 14088116.3/68

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -68.351 ± 19.694 $\chi^2/\text{NDF}: 2.7/8$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: 14.802 ± 18.280 $\chi^2/\text{NDF}: 11.9/11$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

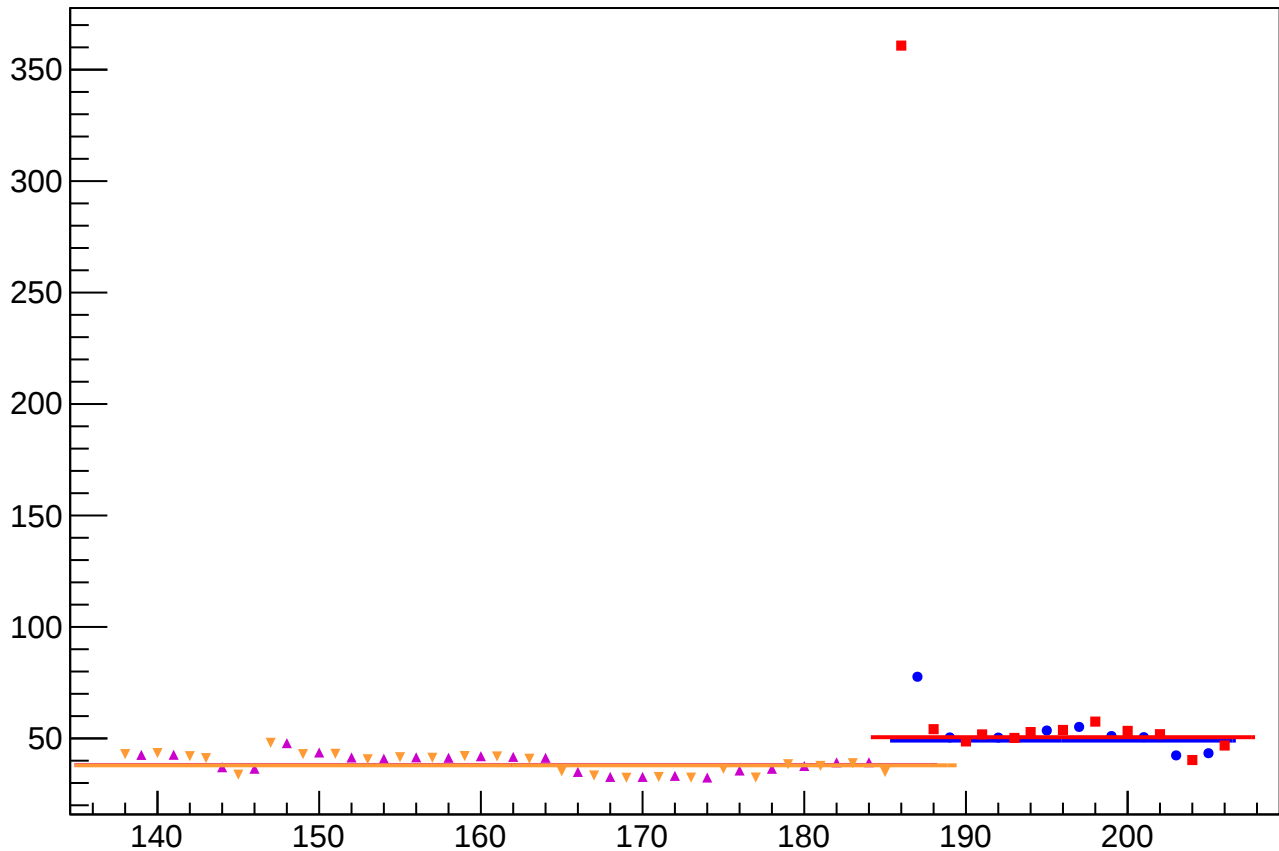
Right: -23.683 ± 13.398 $\chi^2/\text{NDF}: 24.2/20$

In: -7.050 ± 8.316 $\chi^2/\text{NDF}: 44.8/31$

Out: 36.219 ± 7.994 $\chi^2/\text{NDF}: 48.0/36$

All: 15.439 ± 5.763 $\chi^2/\text{NDF}: 106.8/68$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 49.029+/-0.014 χ^2/NDF : 143194.3/8

Left Out: 37.925+/-0.006 χ^2/NDF : 487085.3/24

Right Out: 50.538+/-0.013 χ^2/NDF : 705222.0/11

Left In: 38.087+/-0.006 χ^2/NDF : 396334.5/22

Left: 38.004+/-0.005 χ^2/NDF : 883742.3/47

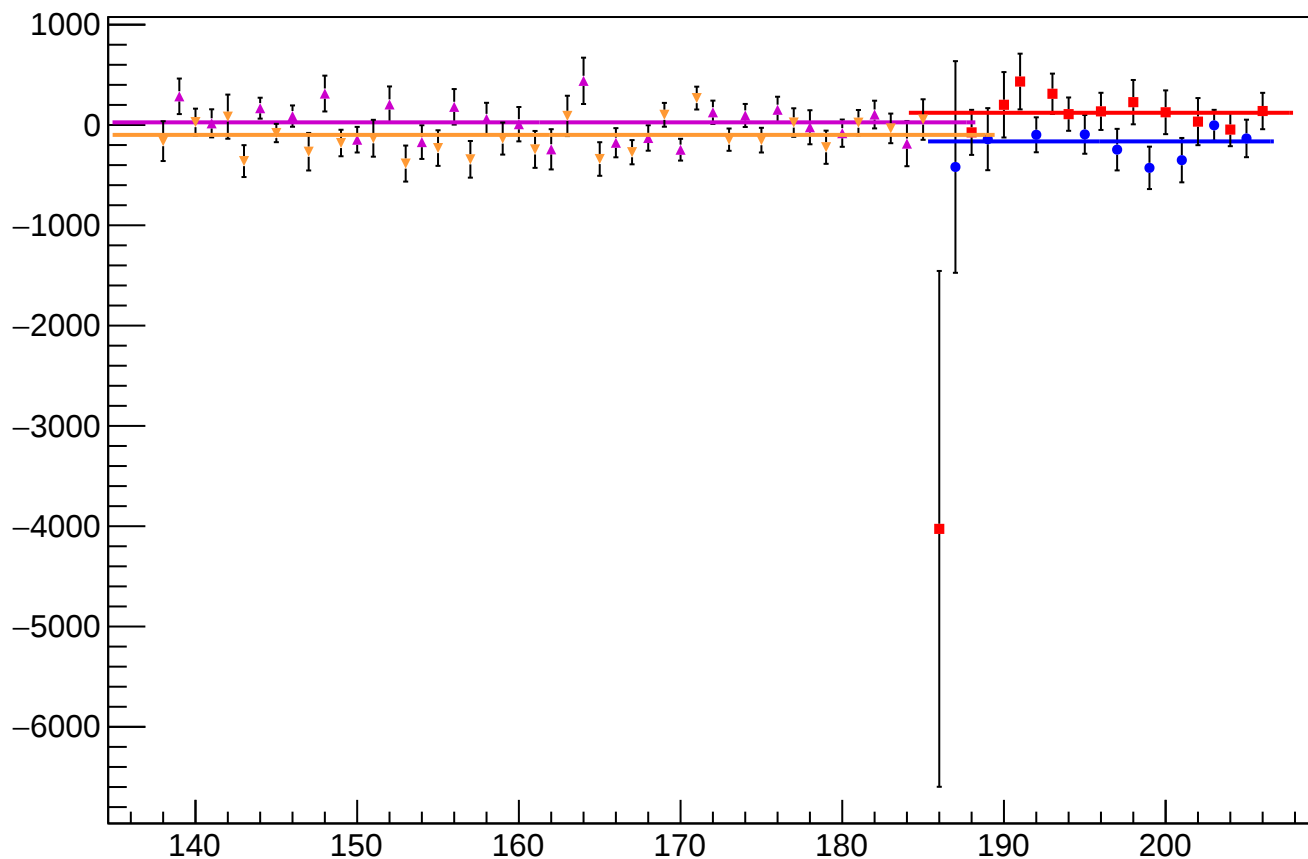
Right: 49.839+/-0.009 χ^2/NDF : 854726.5/20

In: 40.038+/-0.006 χ^2/NDF : 1046742.0/31

Out: 40.337+/-0.006 χ^2/NDF : 1962332.3/36

All: 40.194+/-0.004 χ^2/NDF : 3010416.4/68

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -163.696 ± 69.366 χ^2/NDF : 3.9/8

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 121.640 ± 62.136 χ^2/NDF : 7.0/11

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

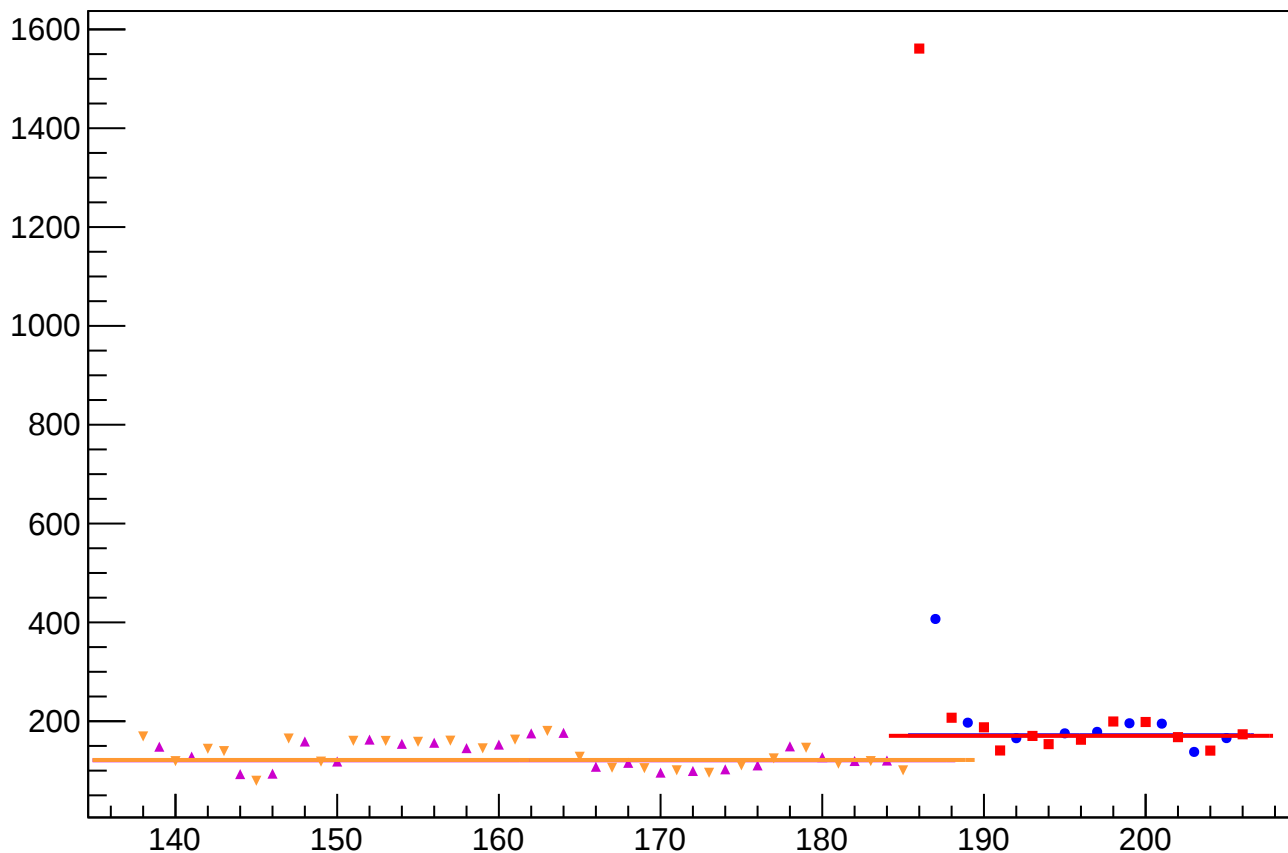
Right: -5.388 ± 46.282 χ^2/NDF : 20.2/20

In: -3.159 ± 27.284 χ^2/NDF : 40.9/31

Out: -59.110 ± 26.350 χ^2/NDF : 50.0/36

All: -32.109 ± 18.954 χ^2/NDF : 93.1/68

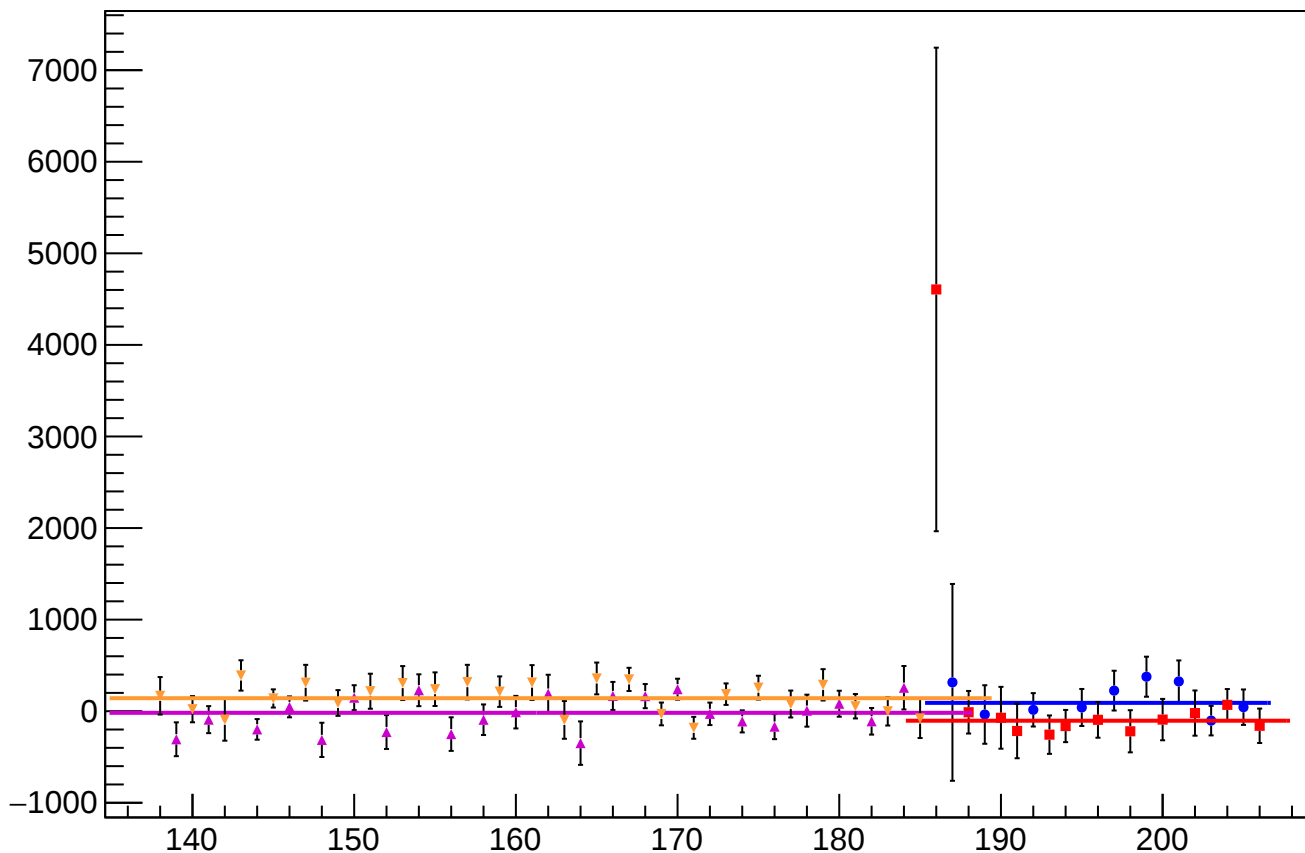
asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 171.530 $\pm$ 0.049 χ^2 /NDF: 264575.8/8
 Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF: 1711423.9/24
 Right Out: 170.461 $\pm$ 0.044 χ^2 /NDF: 824206.0/11
 Left In: 120.927 $\pm$ 0.021 χ^2 /NDF: 1382861.4/22

Left: 121.266 $\pm$ 0.015 χ^2 /NDF: 3094797.5/47
 Right: 170.937 $\pm$ 0.033 χ^2 /NDF: 1089045.7/20
 In: 128.756 $\pm$ 0.019 χ^2 /NDF: 2547159.5/31
 Out: 130.380 $\pm$ 0.019 χ^2 /NDF: 3550257.9/36
 All: 129.596 $\pm$ 0.013 χ^2 /NDF: 6101085.1/68

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 91.150 $\pm$ 72.275 χ^2 /NDF: 5.1/8

Left Out: 142.014 $\pm$ 30.574 χ^2 /NDF: 26.9/24

Right Out: -103.790 $\pm$ 64.983 χ^2 /NDF: 5.6/11

Left In: -17.679 $\pm$ 31.209 χ^2 /NDF: 30.1/22

Left: 63.807 $\pm$ 21.840 χ^2 /NDF: 70.4/47

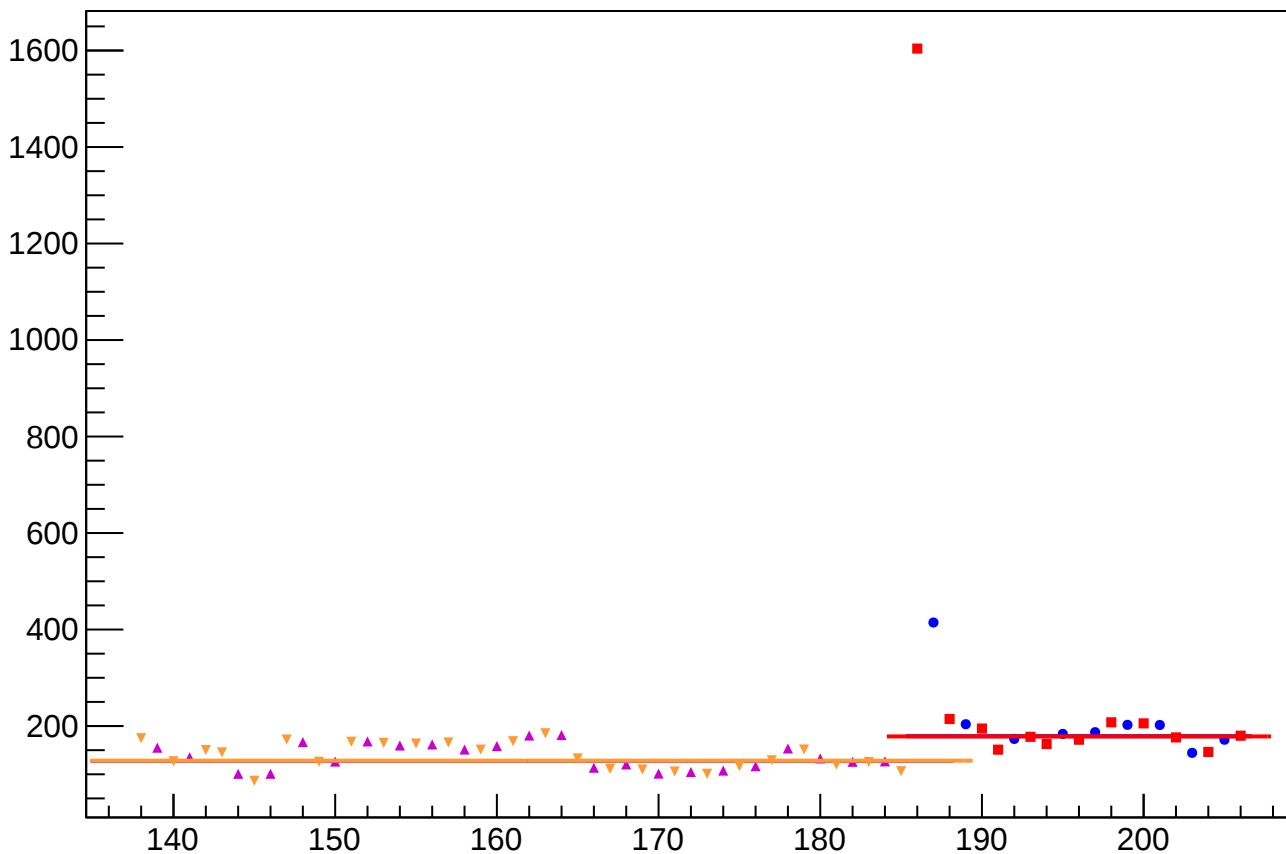
Right: -16.647 $\pm$ 48.323 χ^2 /NDF: 14.7/20

In: -0.576 $\pm$ 28.652 χ^2 /NDF: 37.1/31

Out: 97.463 $\pm$ 27.665 χ^2 /NDF: 44.2/36

All: 50.160 $\pm$ 19.902 χ^2 /NDF: 87.4/68

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 178.878 ± 0.051 χ^2/NDF : 252327.2/8

Left Out: 128.175 ± 0.022 χ^2/NDF : 1532922.0/24

Right Out: 178.509 ± 0.046 χ^2/NDF : 802665.8/11

Left In: 127.544 ± 0.022 χ^2/NDF : 1235705.3/22

Left: 127.866 ± 0.015 χ^2/NDF : 2769045.1/47

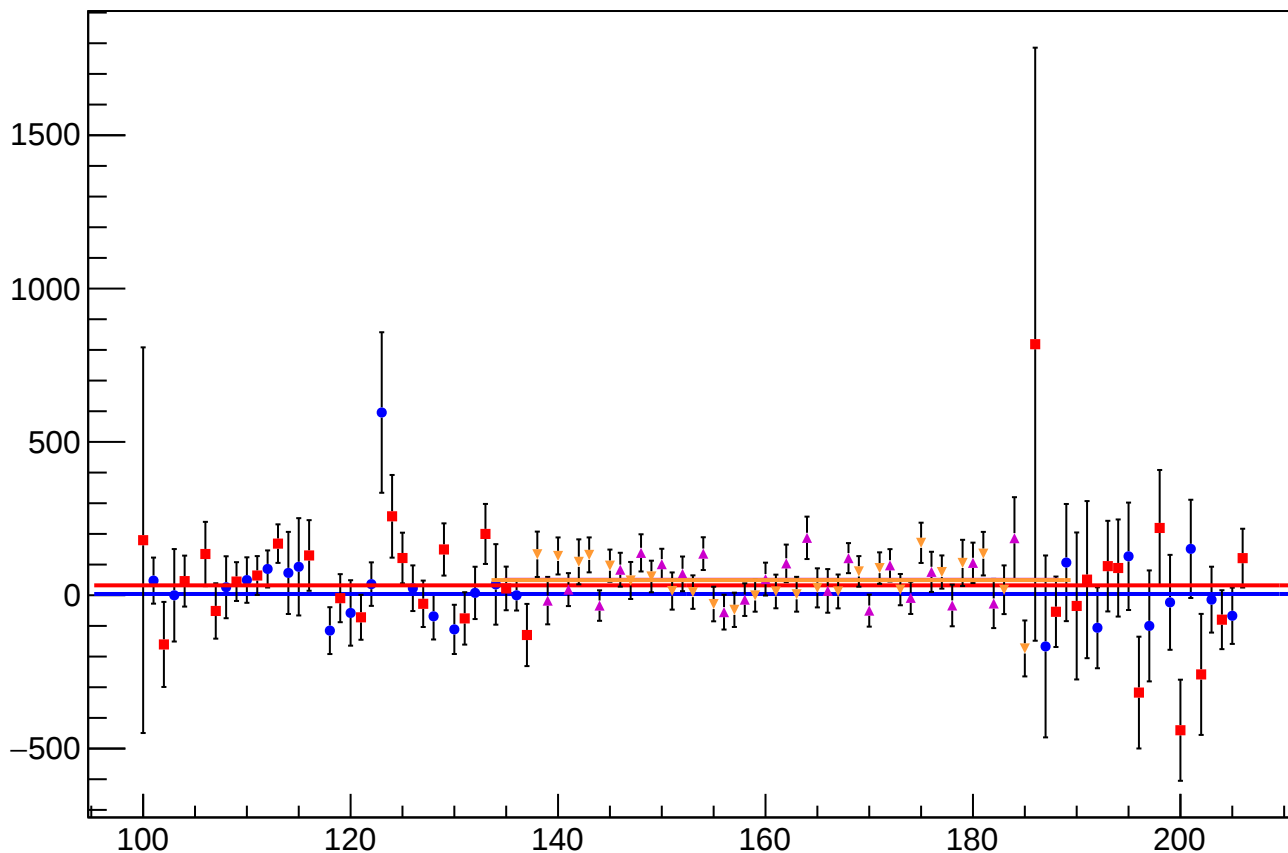
Right: 178.674 ± 0.034 χ^2/NDF : 1055021.9/20

In: 135.611 ± 0.020 χ^2/NDF : 2338421.4/31

Out: 137.298 ± 0.020 χ^2/NDF : 3318021.2/36

All: 136.484 ± 0.014 χ^2/NDF : 5660030.1/68

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 4.072 ± 18.570 $\chi^2/\text{NDF}: 18.0/25$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 32.245 ± 17.750 $\chi^2/\text{NDF}: 44.3/30$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

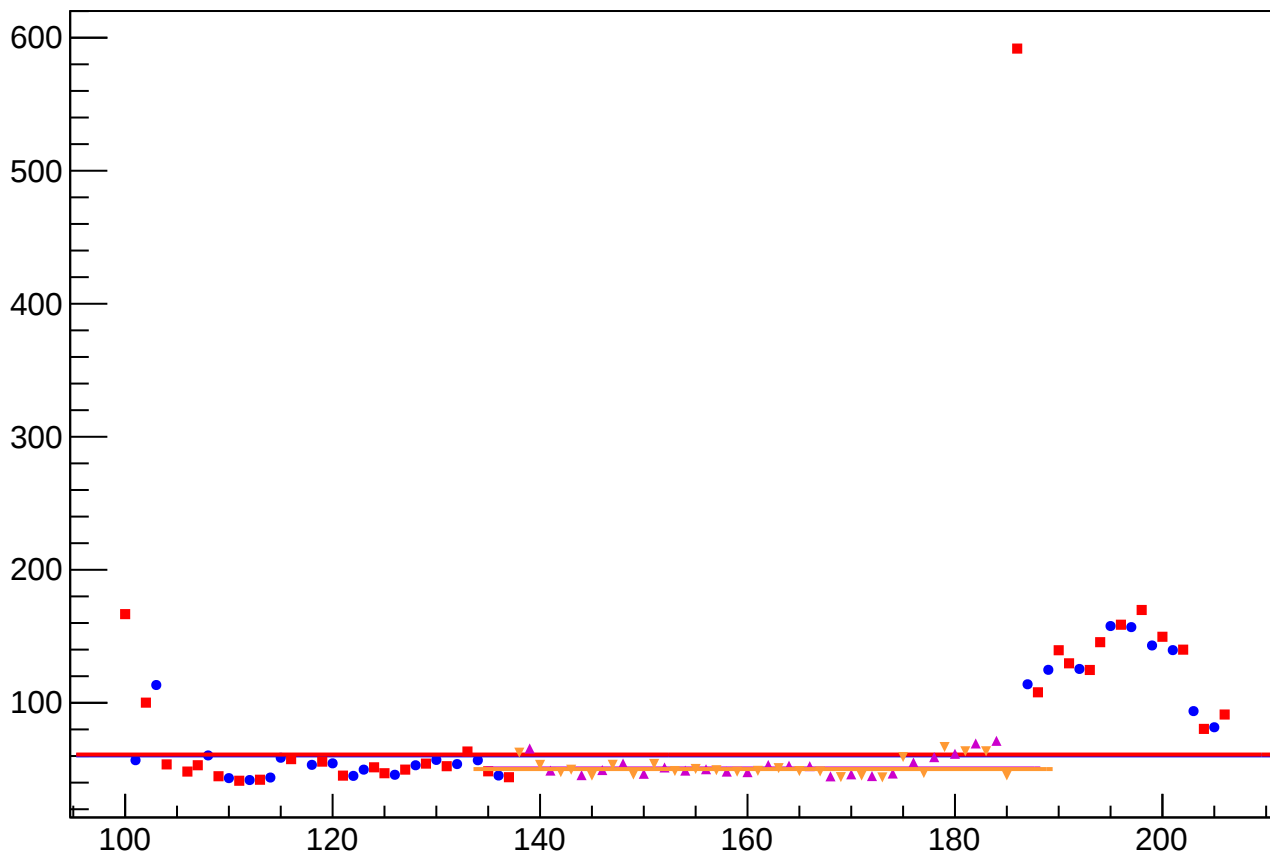
Right: 18.795 ± 12.831 $\chi^2/\text{NDF}: 63.5/56$

In: 36.299 ± 10.228 $\chi^2/\text{NDF}: 54.5/48$

Out: 44.140 ± 9.830 $\chi^2/\text{NDF}: 73.0/55$

All: 40.375 ± 7.087 $\chi^2/\text{NDF}: 127.8/104$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 60.476 $\pm$ 0.013 χ^2 /NDF: 4313258.2/25

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 61.120 $\pm$ 0.013 χ^2 /NDF: 5795355.3/30

Left In: 50.683 $\pm$ 0.009 χ^2 /NDF: 469292.3/22

Left: 50.427 $\pm$ 0.006 χ^2 /NDF: 938655.0/47

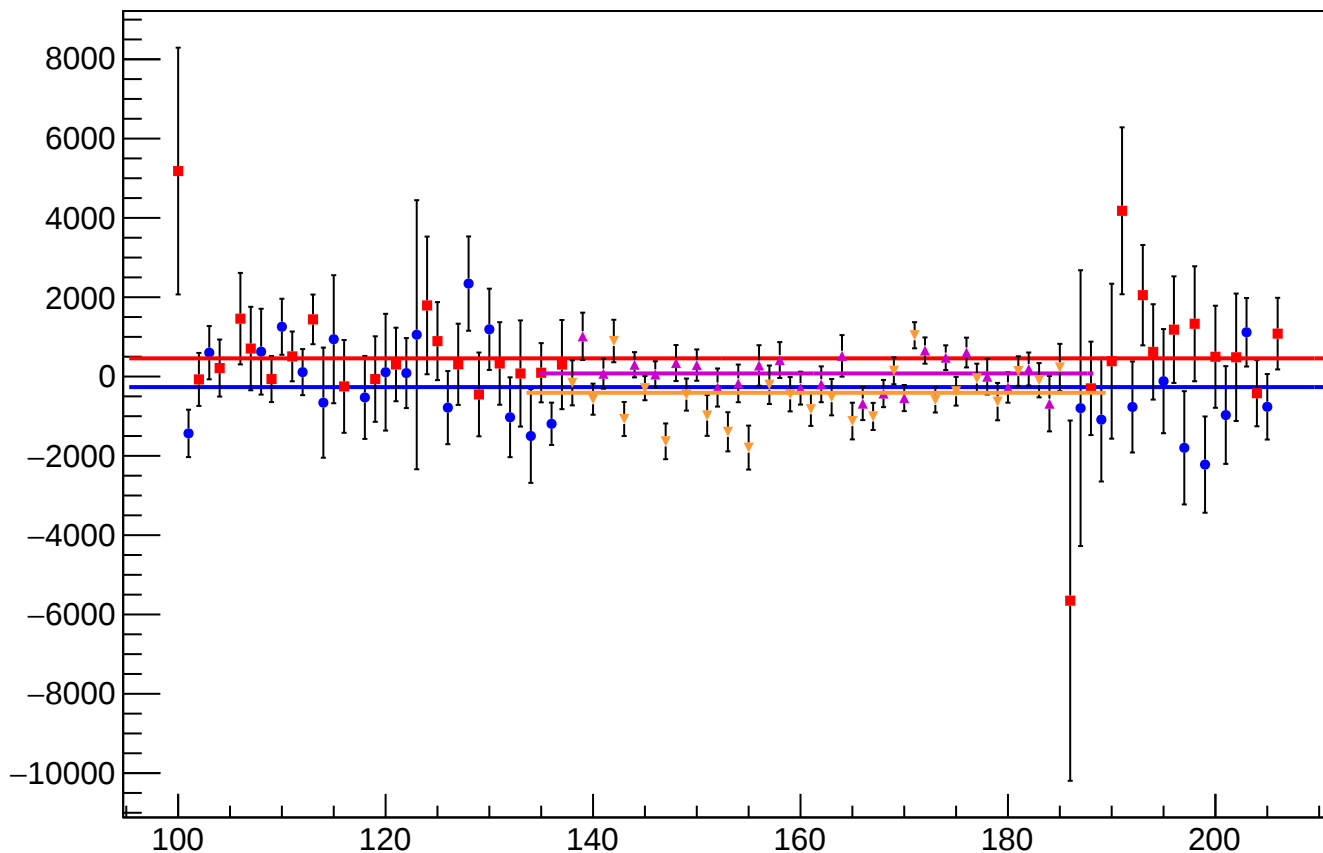
Right: 60.813 $\pm$ 0.009 χ^2 /NDF: 10109870.8/56

In: 53.654 $\pm$ 0.007 χ^2 /NDF: 5170047.2/48

Out: 53.542 $\pm$ 0.007 χ^2 /NDF: 6788900.5/55

All: 53.595 $\pm$ 0.005 χ^2 /NDF: 11959071.8/104

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -266.280 ± 185.705 χ^2/NDF : 31.6/25

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 458.458 ± 178.803 χ^2/NDF : 18.9/30

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

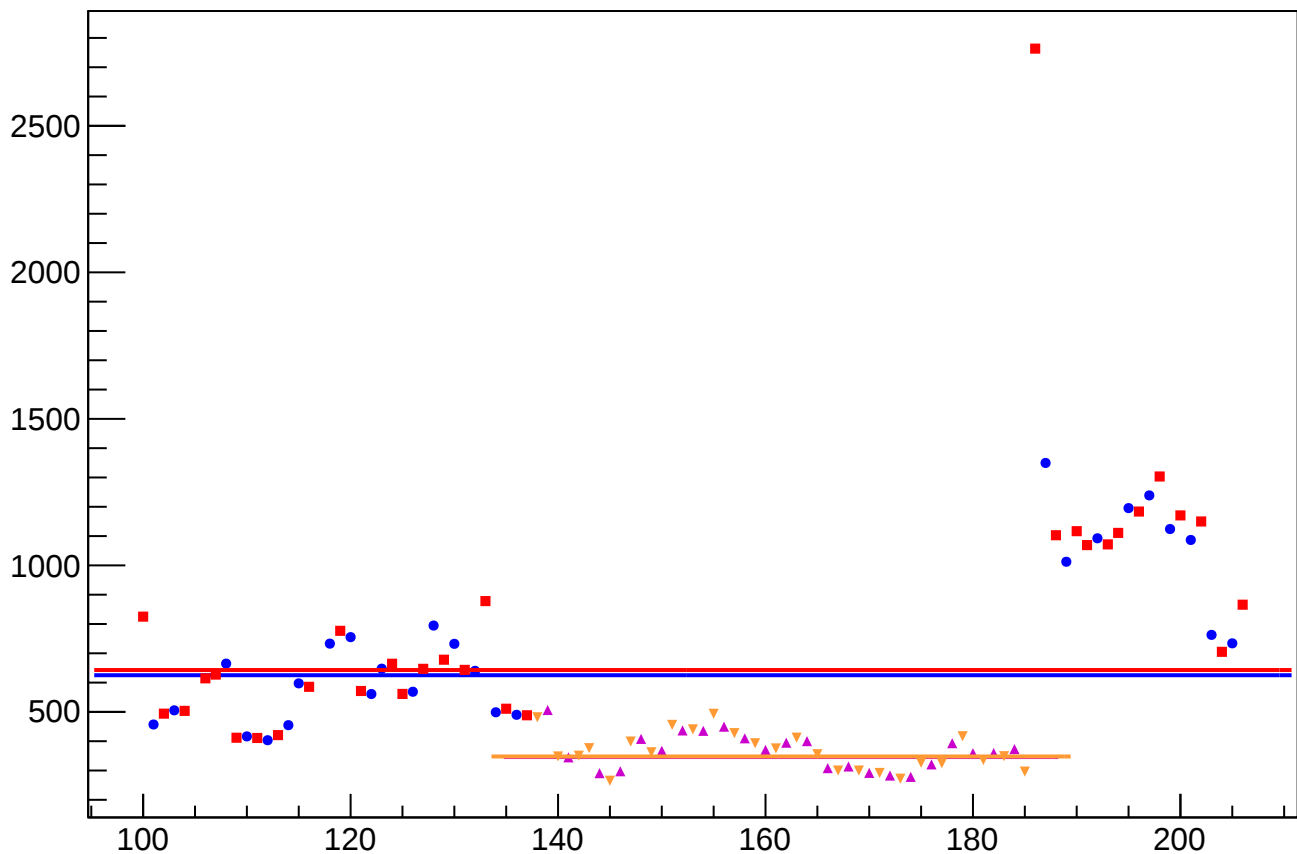
Right: 109.807 ± 128.803 χ^2/NDF : 58.4/56

In: 19.334 ± 76.589 χ^2/NDF : 59.3/48

Out: -257.336 ± 74.797 χ^2/NDF : 100.0/55

All: -122.276 ± 53.512 χ^2/NDF : 166.0/104

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 625.170+/-0.131 χ^2/NDF : 2982664.4/25

Left Out: 347.875+/-0.058 χ^2/NDF : 1044096.7/24

Right Out: 642.873+/-0.126 χ^2/NDF : 4130612.7/30

Left In: 345.954+/-0.059 χ^2/NDF : 900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

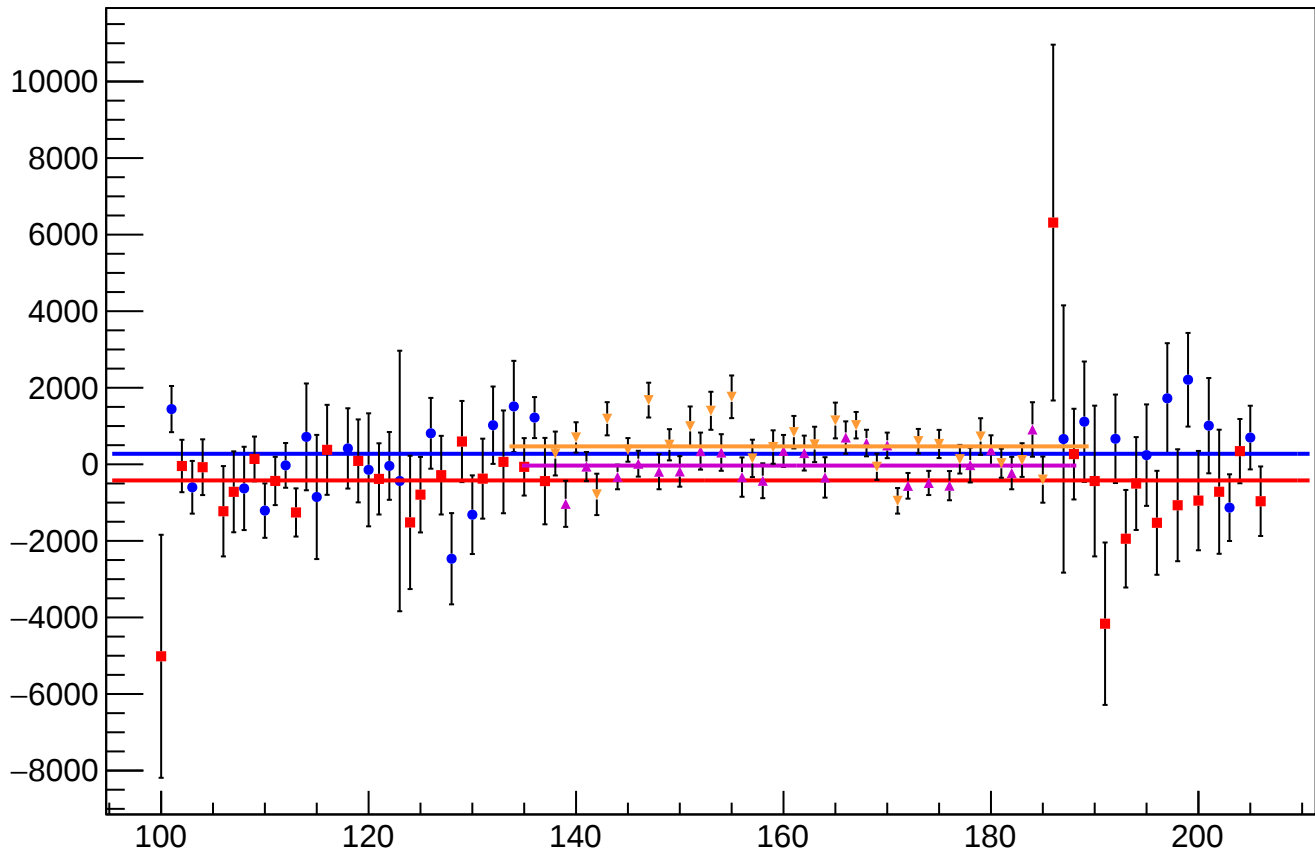
Right: 634.357+/-0.091 χ^2/NDF : 7122708.9/56

In: 393.447+/-0.054 χ^2/NDF : 7635767.9/48

Out: 399.498+/-0.053 χ^2/NDF : 9666072.0/55

All: 396.544+/-0.038 χ^2/NDF : 17308229.0/100

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 275.103 $\pm$ 187.046 χ^2 /NDF: 31.4/25

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -420.650 $\pm$ 180.178 χ^2 /NDF: 17.6/30

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

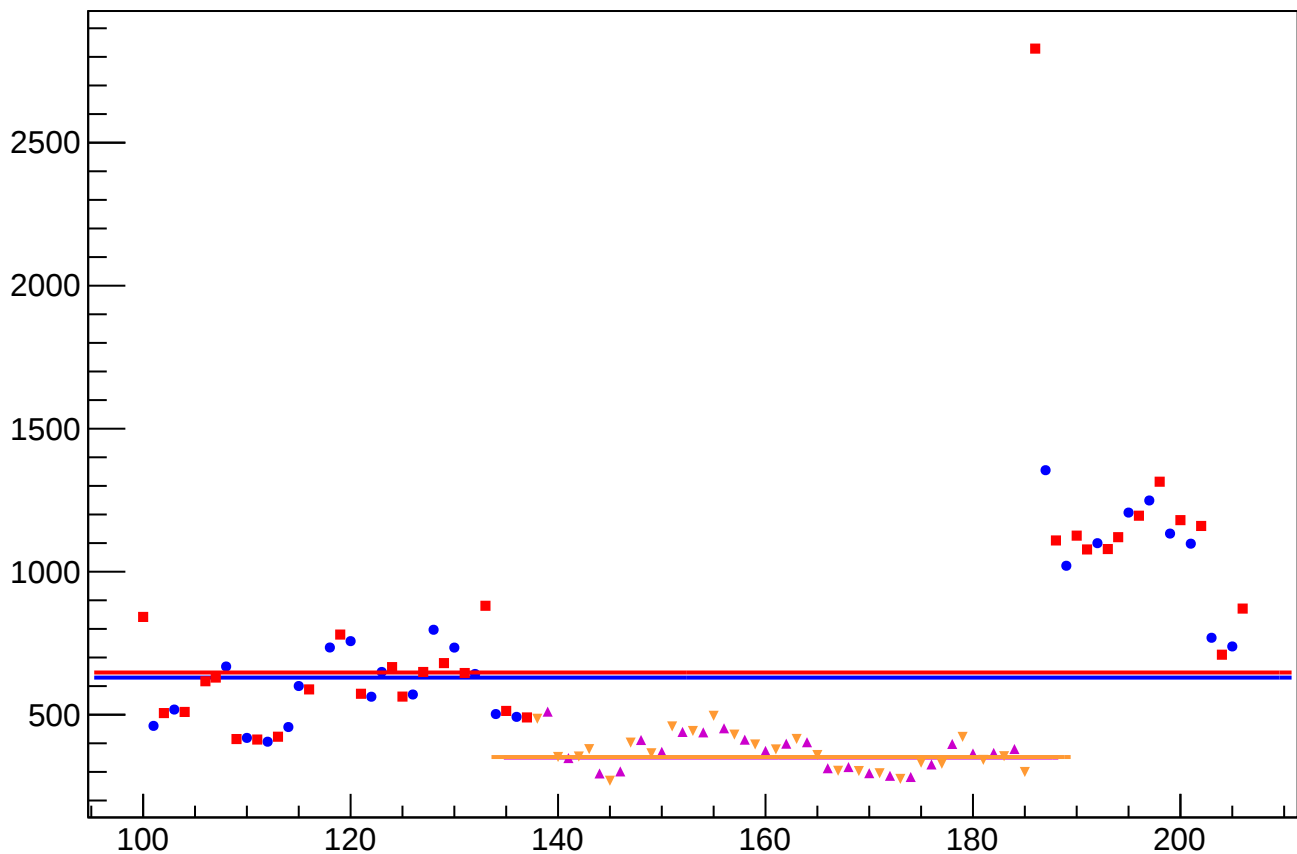
Right: -85.781 $\pm$ 129.765 χ^2 /NDF: 56.2/56

In: 19.966 $\pm$ 77.432 χ^2 /NDF:59.4/48

Out: 312.233 $\pm$ 75.607 χ^2 /NDF:95.2/55

All: 169.585 $\pm$ 54.096 χ^2 /NDF: 161.8/104

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 629.738 $\pm$ 0.132 χ^2/NDF : 2979719.3/25

Left Out: 352.015 $\pm$ 0.059 χ^2/NDF :1017195.6/24

Right Out: 647.559 $\pm$ 0.127 χ^2/NDF : 4131875.9/30

Left In: 350.160 $\pm$ 0.060 χ^2/NDF :878380.0/22

Left: 351.107 $\pm$ 0.042 χ^2/NDF : 1896060.8/47

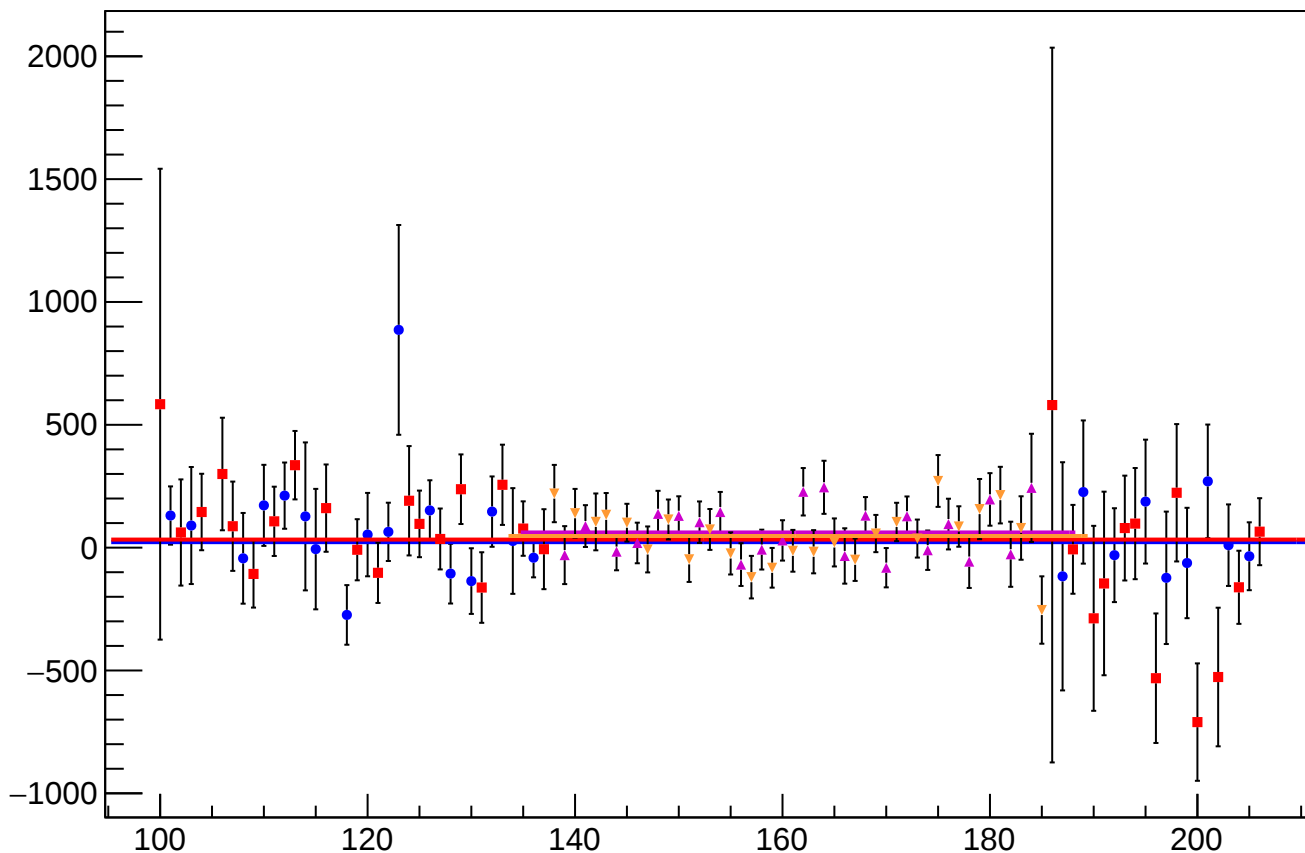
Right: 638.982 $\pm$ 0.092 χ^2/NDF : 7121012.2/56

In: 398.073 $\pm$ 0.055 χ^2/NDF :7560629.3/48

Out: 404.056 $\pm$ 0.053 χ^2/NDF :9582669.2/55

All: 401.136 $\pm$ 0.038 χ^2/NDF : 17149409.9/10

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 22.328 $\pm$ 31.098 χ^2 /NDF: 22.0/25

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 32.866 $\pm$ 30.590 χ^2 /NDF: 38.6/30

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

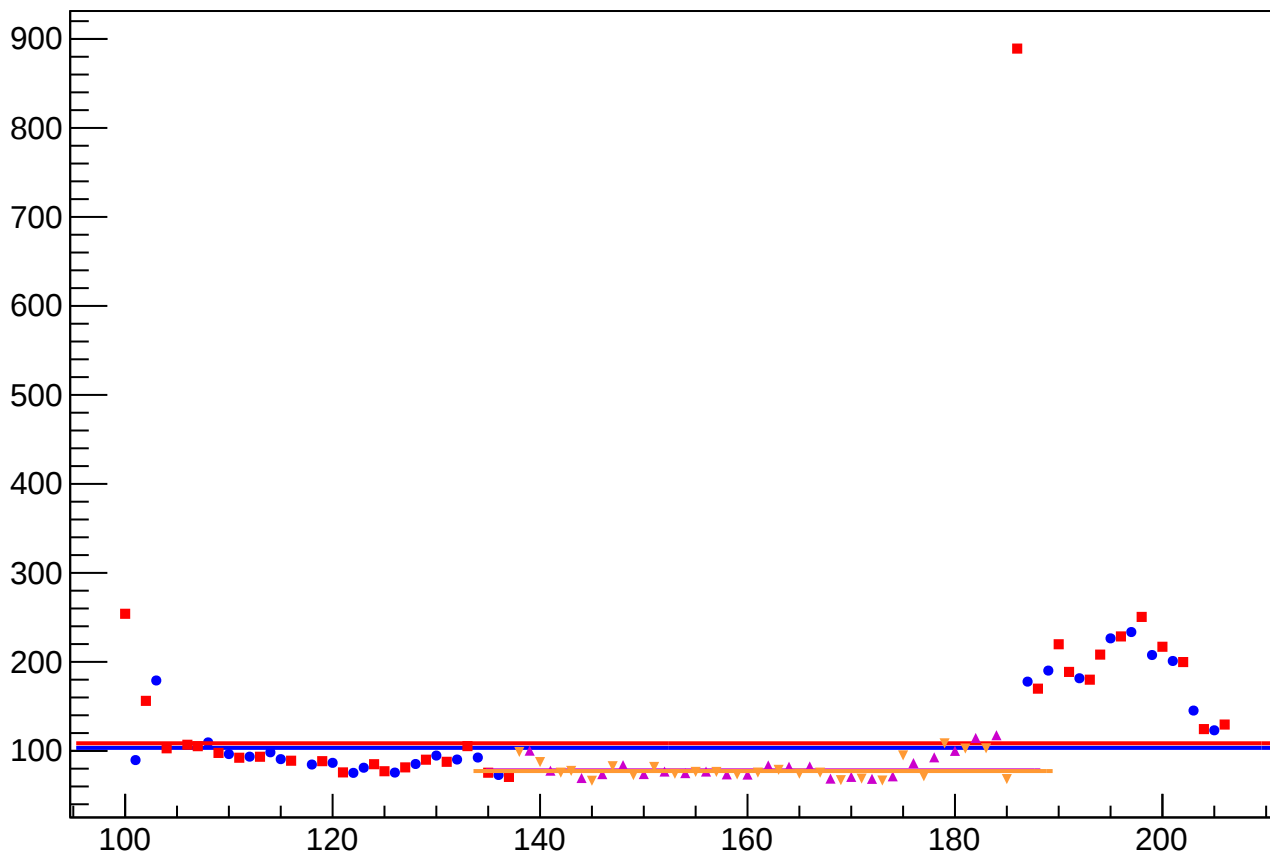
Right: 27.684 $\pm$ 21.808 χ^2 /NDF: 60.7/56

In: 51.127 $\pm$ 16.187 χ^2 /NDF:47.2/48

Out: 43.603 $\pm$ 15.674 χ^2 /NDF:68.2/55

All: 47.244 $\pm$ 11.260 χ^2 /NDF: 115.5/104

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 103.375 $\pm$ 0.022 χ^2 /NDF: 3367461.6/25

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF: 635622.3/24

Right Out: 108.524 $\pm$ 0.022 χ^2 /NDF: 4324658.8/30

Left In: 78.139 $\pm$ 0.013 χ^2 /NDF: 582108.1/22

Left: 77.712 $\pm$ 0.009 χ^2 /NDF: 1219684.1/47

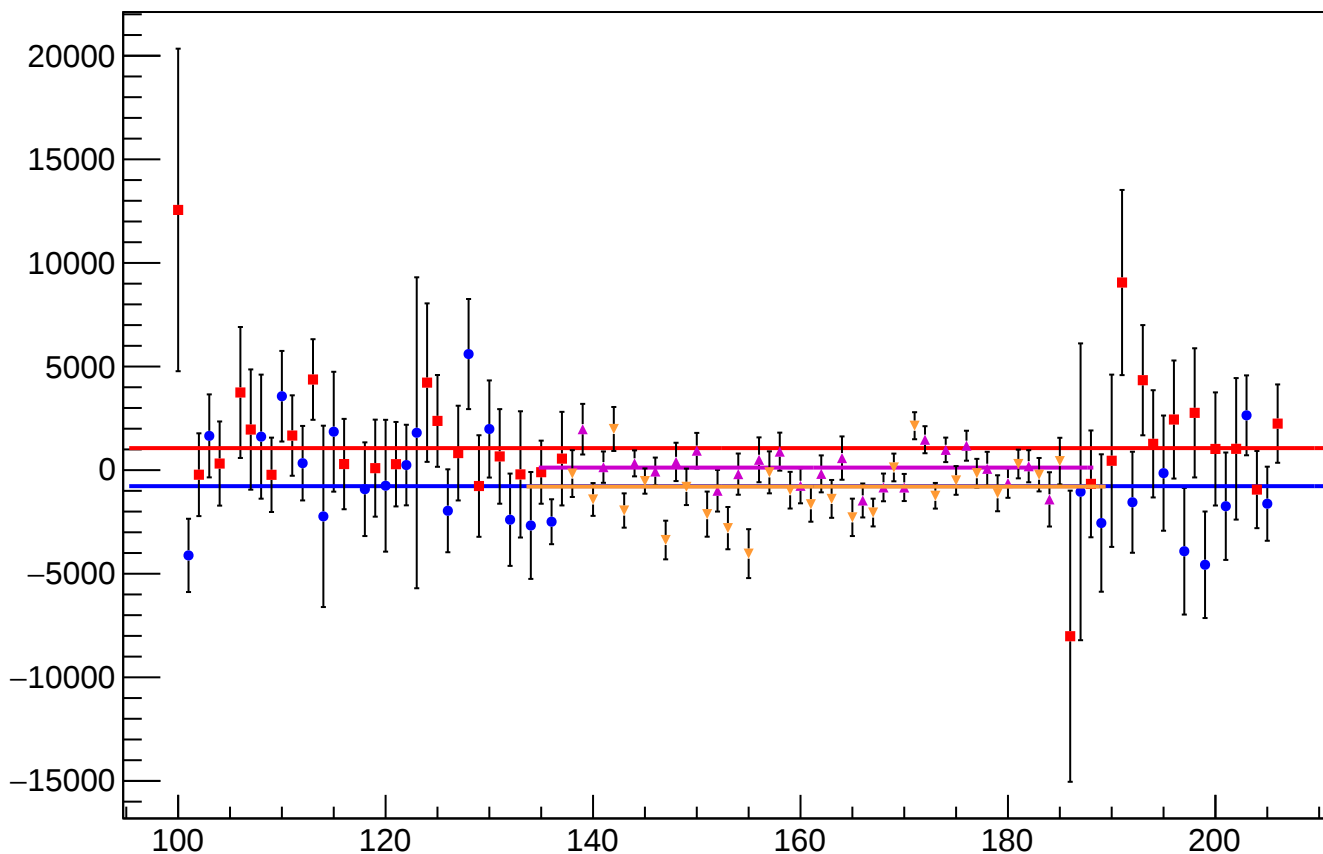
Right: 105.992 $\pm$ 0.015 χ^2 /NDF: 7719992.2/56

In: 84.976 $\pm$ 0.011 χ^2 /NDF: 4909794.3/48

Out: 85.510 $\pm$ 0.011 χ^2 /NDF: 6495375.9/55

All: 85.252 $\pm$ 0.008 χ^2 /NDF: 11406293.7/104

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -773.250+/-441.917 χ^2/NDF : 29.6/25

Left Out: -792.776+/-162.659 χ^2/NDF : 66.6/24

Right Out: 1062.708+/-432.642 χ^2/NDF : 18.9/30

Left In: 122.198+/-166.193 χ^2/NDF : 25.9/22

Left: -345.122+/-116.247 χ^2/NDF : 108.0/47

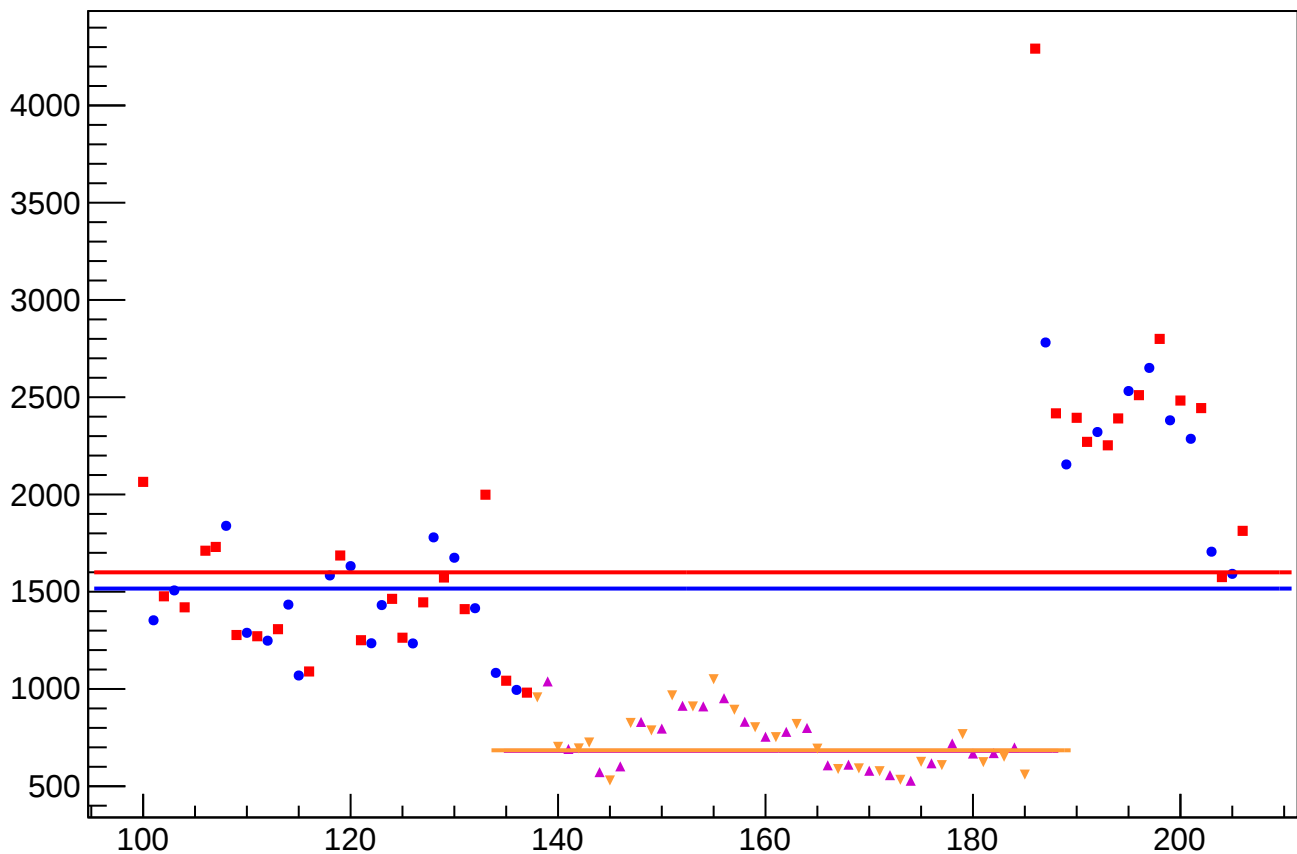
Right: 164.198+/-309.151 χ^2/NDF : 57.3/56

In: 11.245+/-155.557 χ^2/NDF : 59.1/48

Out: -562.983+/-152.254 χ^2/NDF : 101.6/55

All: -282.030+/-108.809 χ^2/NDF : 167.7/104

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1516.231 $\pm$ 0.312 χ^2 /NDF: 2114603.5/25

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF:1280146.2/24

Right Out: 1599.705 $\pm$ 0.306 χ^2 /NDF: 2677077.9/30

Left In: 681.712 $\pm$ 0.118 χ^2 /NDF:1119637.0/22

Left: 683.282 $\pm$ 0.082 χ^2 /NDF: 2400132.5/47

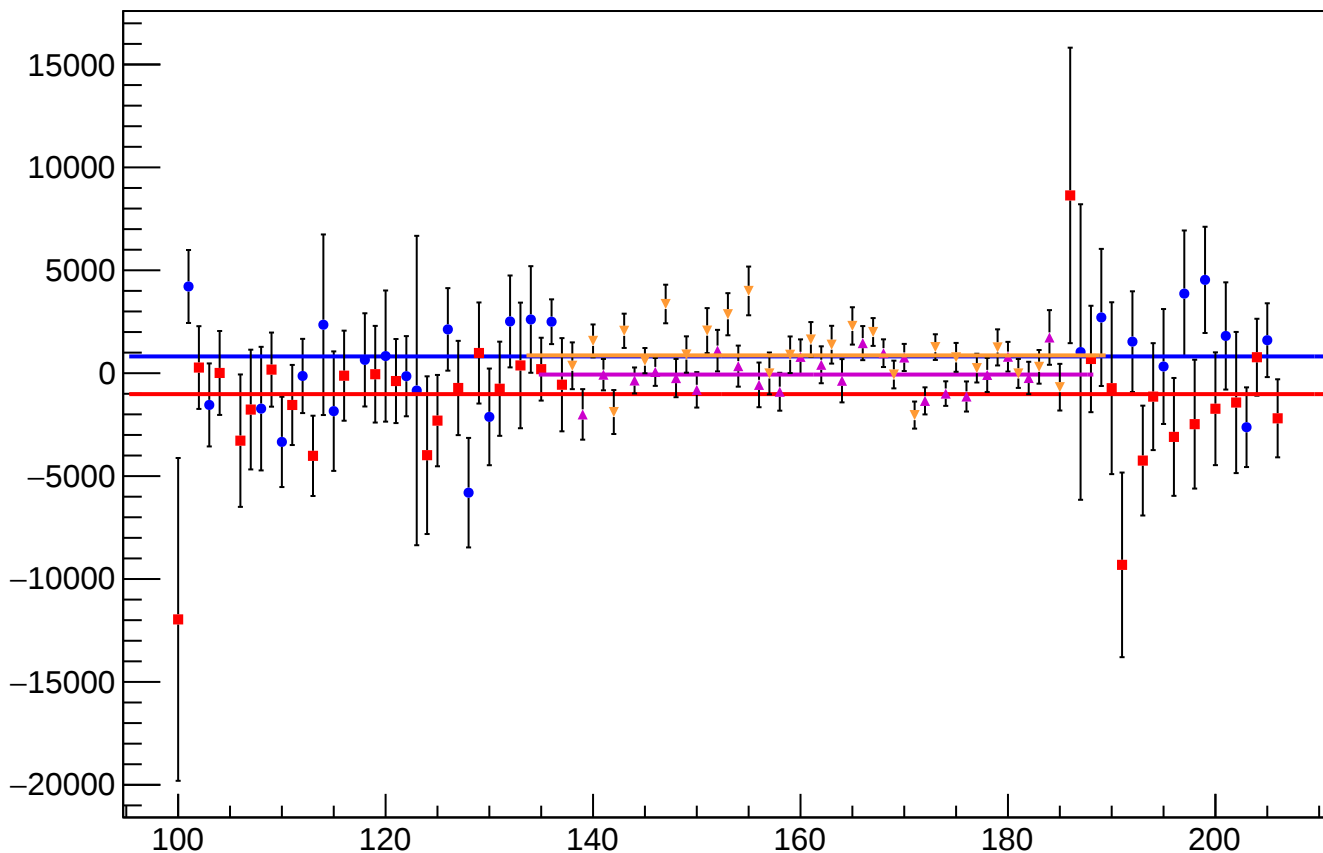
Right: 1558.853 $\pm$ 0.219 χ^2 /NDF: 4828117.5/56

In: 785.115 $\pm$ 0.110 χ^2 /NDF:9482687.8/48

Out: 798.093 $\pm$ 0.108 χ^2 /NDF:11793694.2/55

All: 791.744 $\pm$ 0.077 χ^2 /NDF: 21283492.1/10

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 814.912 ± 443.293 χ^2/NDF : 29.5/25

Left Out: 865.597 ± 163.885 χ^2/NDF : 62.8/24

Right Out: -1016.421 ± 434.141 χ^2/NDF : 18.3/30

Left In: -65.924 ± 167.485 χ^2/NDF : 26.4/22

Left: 409.953 ± 117.136 χ^2/NDF : 105.1/47

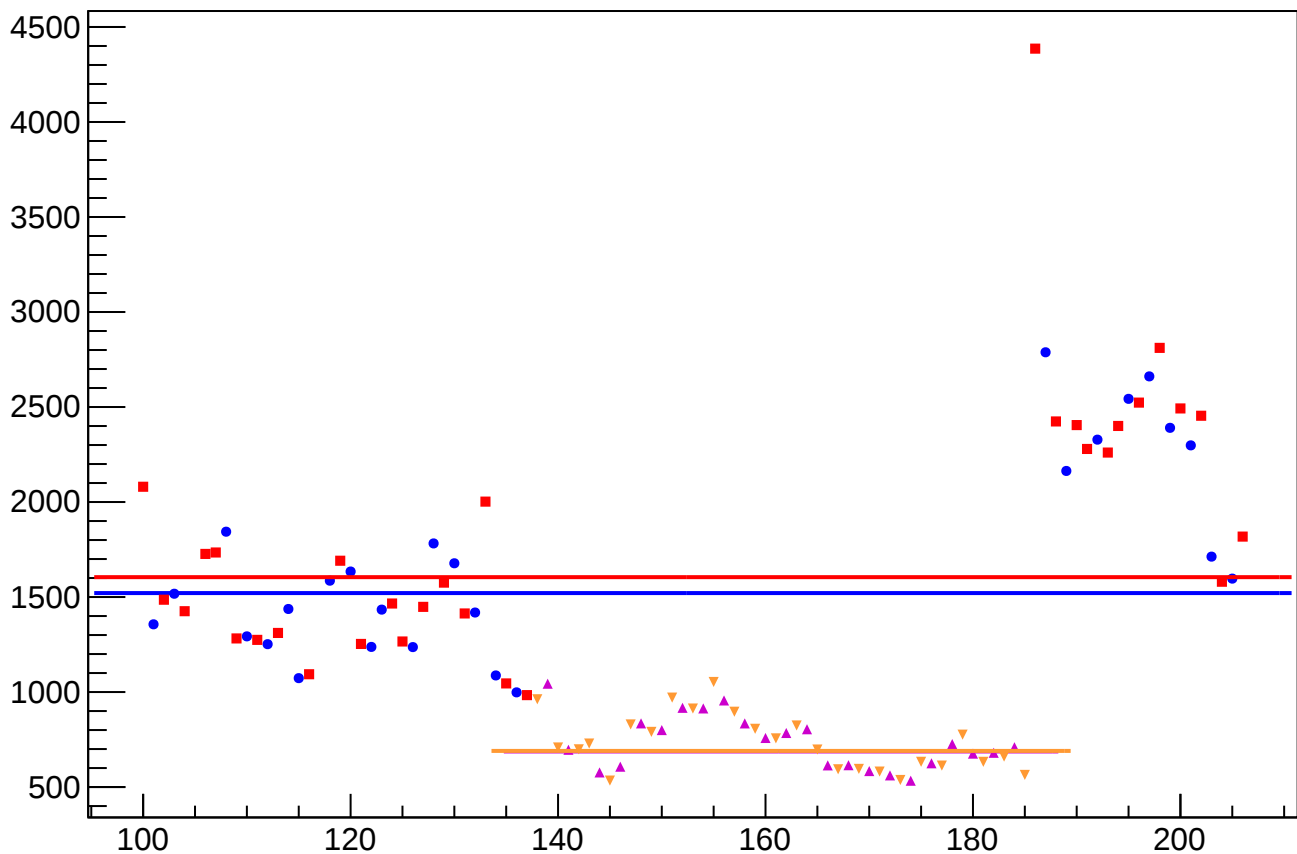
Right: -119.855 ± 310.169 χ^2/NDF : 56.5/56

In: 44.106 ± 156.675 χ^2/NDF : 59.4/48

Out: 630.857 ± 153.325 χ^2/NDF : 97.6/55

All: 343.822 ± 109.582 χ^2/NDF : 164.1/104

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1520.824 +/- 0.313 χ^2/NDF : 2119046.4/25

Left Out: 690.166 +/- 0.116 χ^2/NDF : 1258158.2/24

Right Out: 1604.596 +/- 0.307 χ^2/NDF : 2689664.2/30

Left In: 687.216 +/- 0.118 χ^2/NDF : 1099706.1/22

Left: 688.723 +/- 0.083 χ^2/NDF : 2358181.3/47

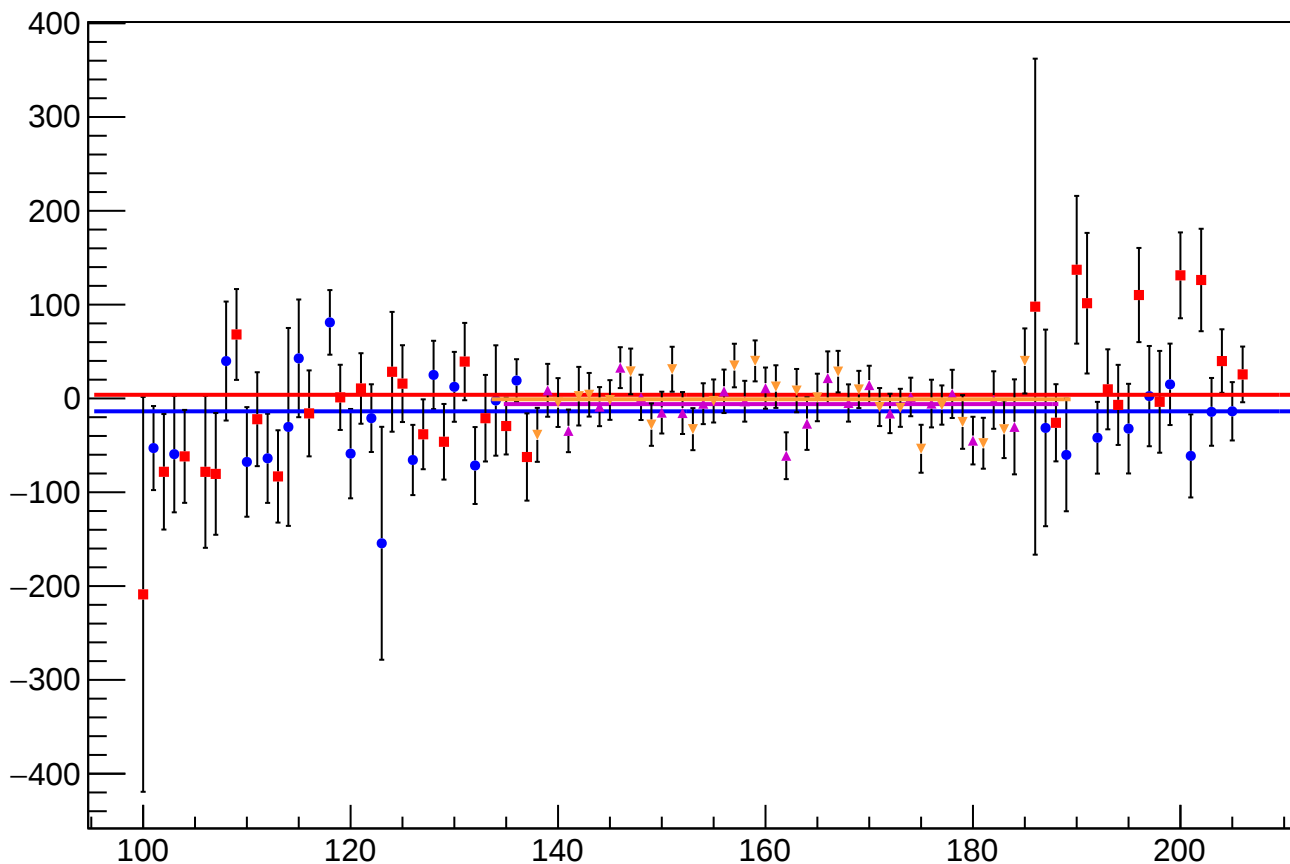
Right: 1563.584 +/- 0.219 χ^2/NDF : 4845168.0/56

In: 791.347 +/- 0.111 χ^2/NDF : 9407765.2/48

Out: 804.221 +/- 0.108 χ^2/NDF : 11714108.7/55

All: 797.923 +/- 0.077 χ^2/NDF : 21128771.6/100

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -13.732 ± 8.486 χ^2/NDF : 25.3/25

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 3.886 ± 8.242 χ^2/NDF : 44.2/30

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

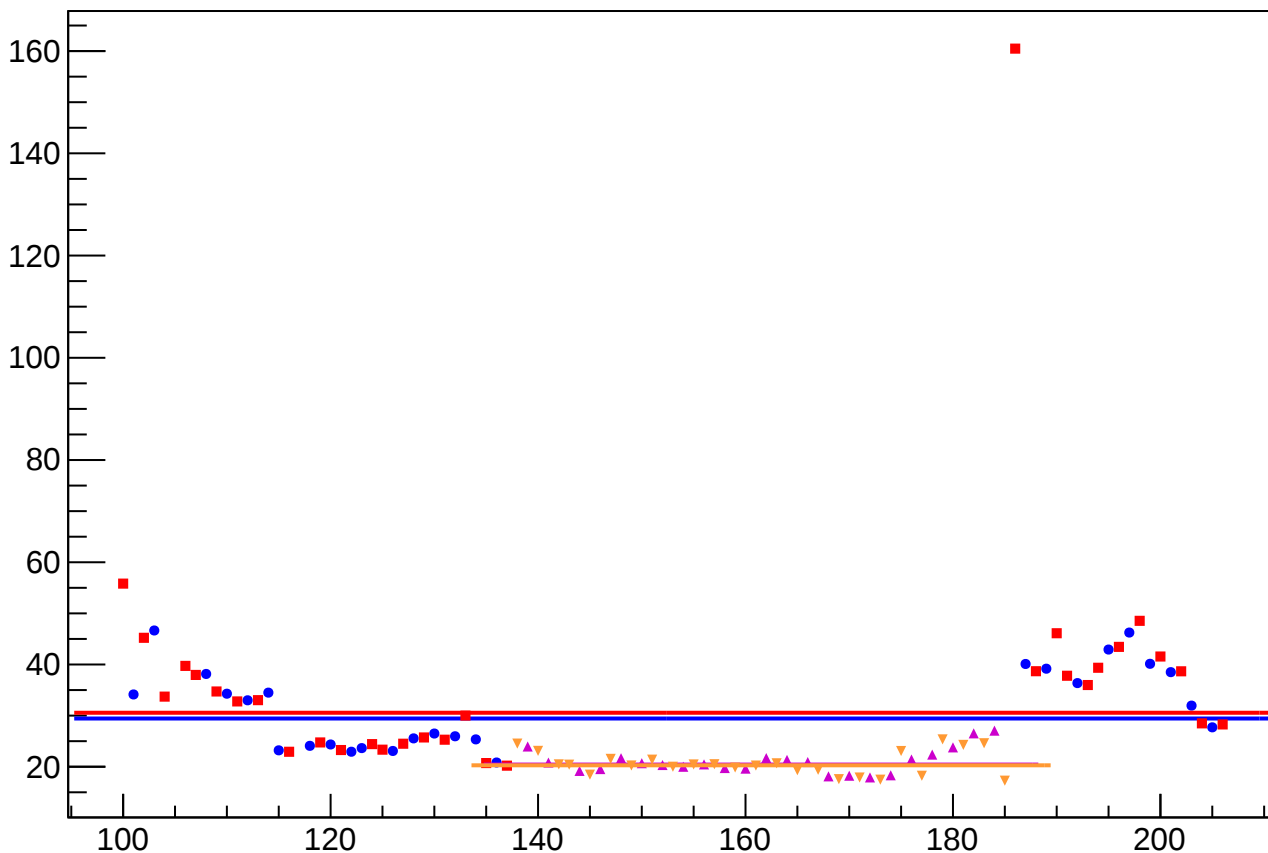
Right: -4.666 ± 5.912 χ^2/NDF : 71.7/56

In: -7.980 ± 4.260 χ^2/NDF : 42.8/48

Out: 0.326 ± 4.122 χ^2/NDF : 72.4/55

All: -3.690 ± 2.962 χ^2/NDF : 117.2/104

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 29.432 $\pm$ 0.006 χ^2 /NDF: 1524076.0/25

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 30.559 $\pm$ 0.006 χ^2 /NDF: 2223531.7/30

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

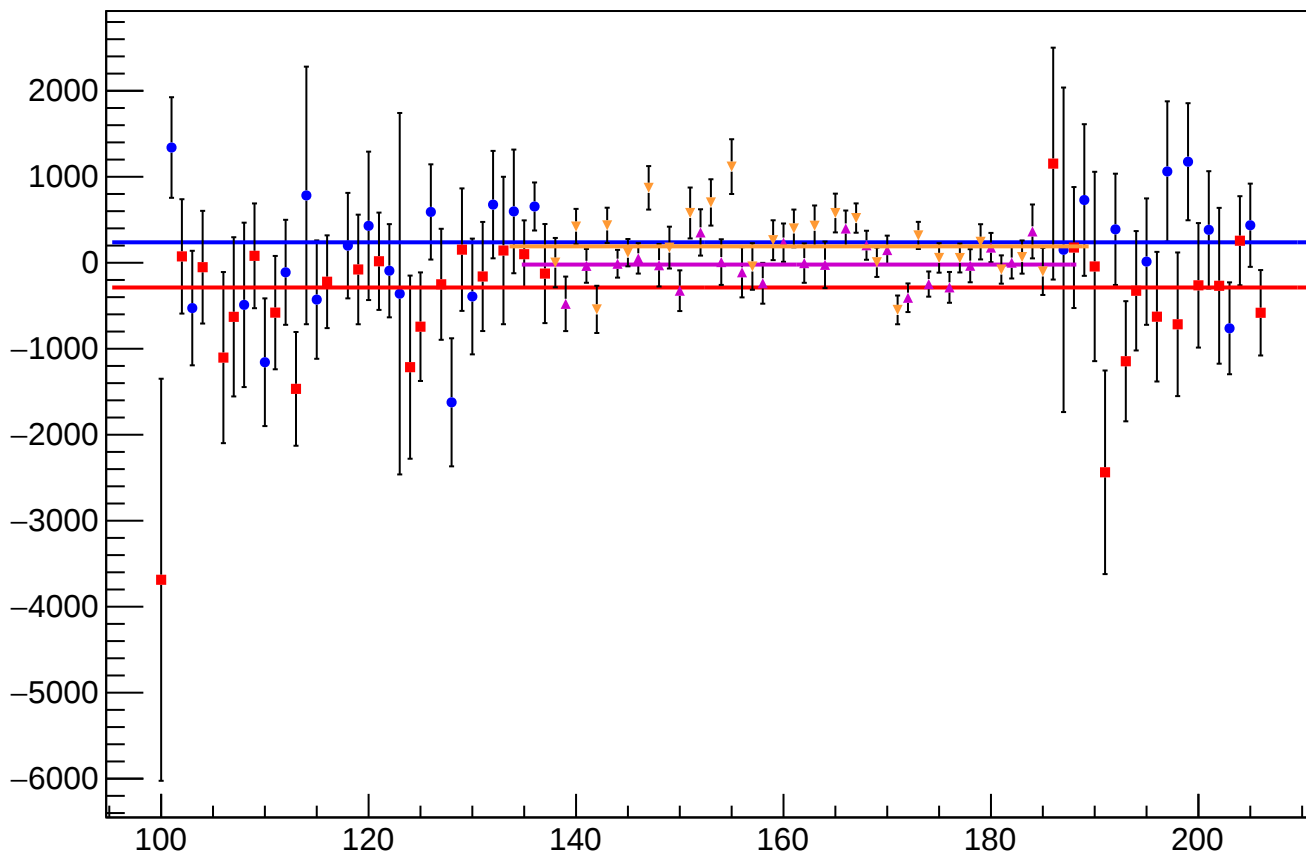
Right: 30.012 $\pm$ 0.004 χ^2 /NDF: 3765781.2/56

In: 22.694 $\pm$ 0.003 χ^2 /NDF: 3533170.1/48

Out: 22.851 $\pm$ 0.003 χ^2 /NDF: 4963822.6/55

All: 22.775 $\pm$ 0.002 χ^2 /NDF: 8498400.9/104

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 237.892 $\pm$ 124.111 χ^2/NDF : 28.5/25

Left Out: 190.867 $\pm$ 41.314 χ^2/NDF : 67.9/24

Right Out: -287.571 $\pm$ 122.479 χ^2/NDF : 18.9/30

Left In: -20.998 $\pm$ 42.291 χ^2/NDF : 27.7/22

Left: 87.410 $\pm$ 29.553 χ^2/NDF : 108.4/47

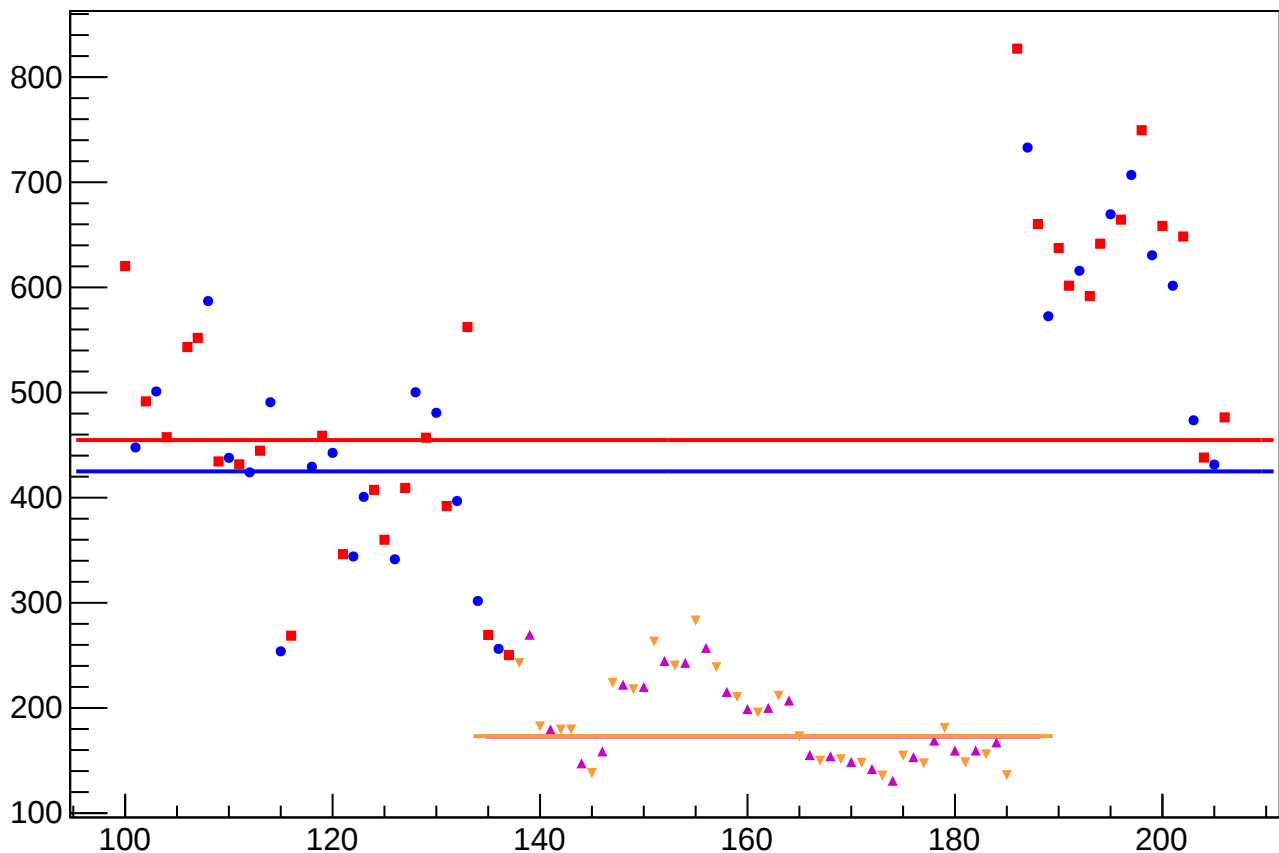
Right: -28.317 $\pm$ 87.177 χ^2/NDF : 56.4/56

In: 5.934 $\pm$ 40.031 χ^2/NDF : 60.1/48

Out: 141.991 $\pm$ 39.147 χ^2/NDF : 100.4/55

All: 75.481 $\pm$ 27.988 χ^2/NDF : 166.4/104

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 425.012 $\pm$ 0.088 χ^2 /NDF: 2209810.2/25

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 454.795 $\pm$ 0.087 χ^2 /NDF: 2466125.9/30

Left In: 172.828 $\pm$ 0.030 χ^2 /NDF:1372131.7/22

Left: 173.023 $\pm$ 0.021 χ^2 /NDF: 2933465.9/47

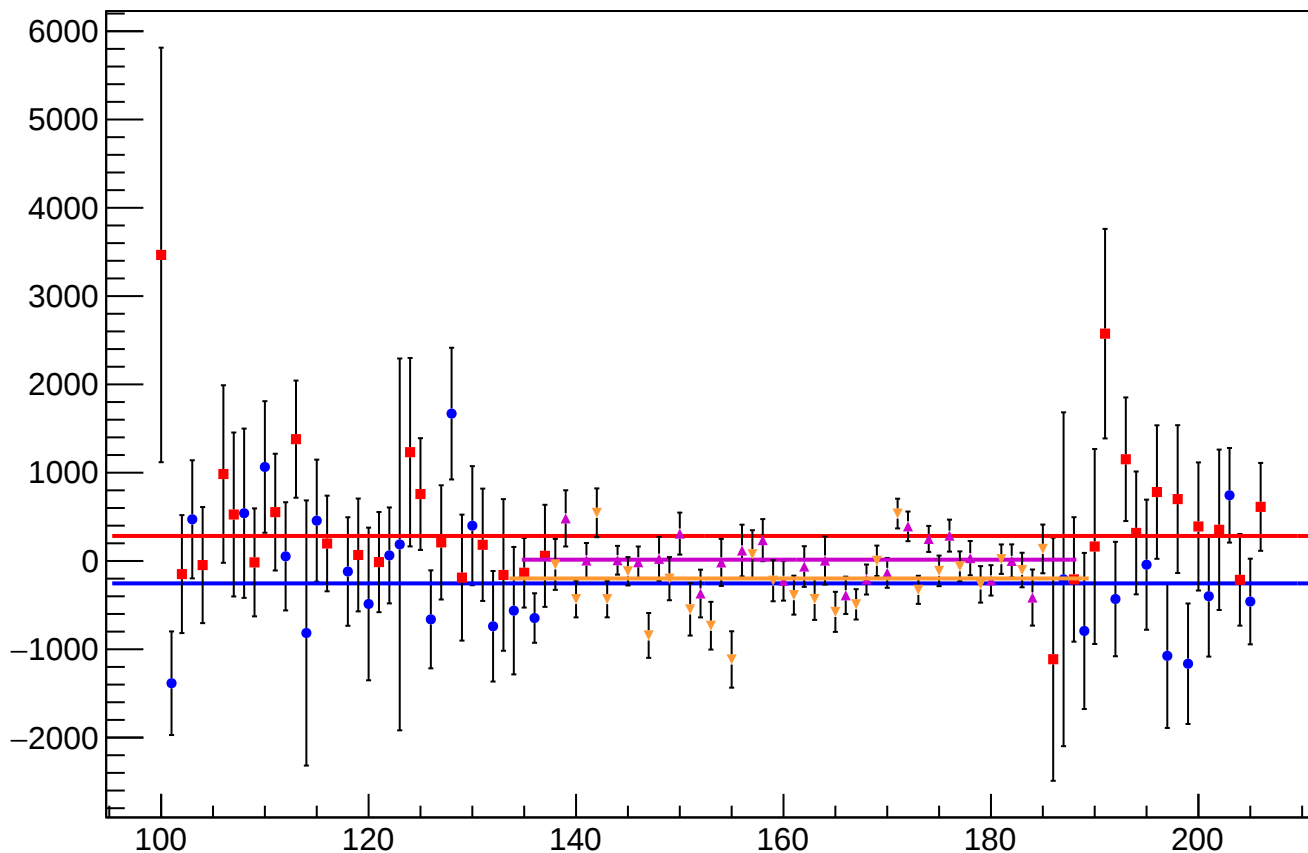
Right: 440.100 $\pm$ 0.062 χ^2 /NDF: 4734283.1/56

In: 199.063 $\pm$ 0.028 χ^2 /NDF:10980339.3/48

Out: 201.976 $\pm$ 0.028 χ^2 /NDF:13518668.1/55

All: 200.552 $\pm$ 0.020 χ^2 /NDF: 24504421.5/10

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -253.749 ± 124.449 χ^2/NDF : 28.5/25

Left Out: -197.918 ± 41.638 χ^2/NDF : 64.3/24

Right Out: 283.434 ± 122.829 χ^2/NDF : 18.8/30

Left In: 14.616 ± 42.629 χ^2/NDF : 27.7/22

Left: -94.151 ± 29.787 χ^2/NDF : 104.7/47

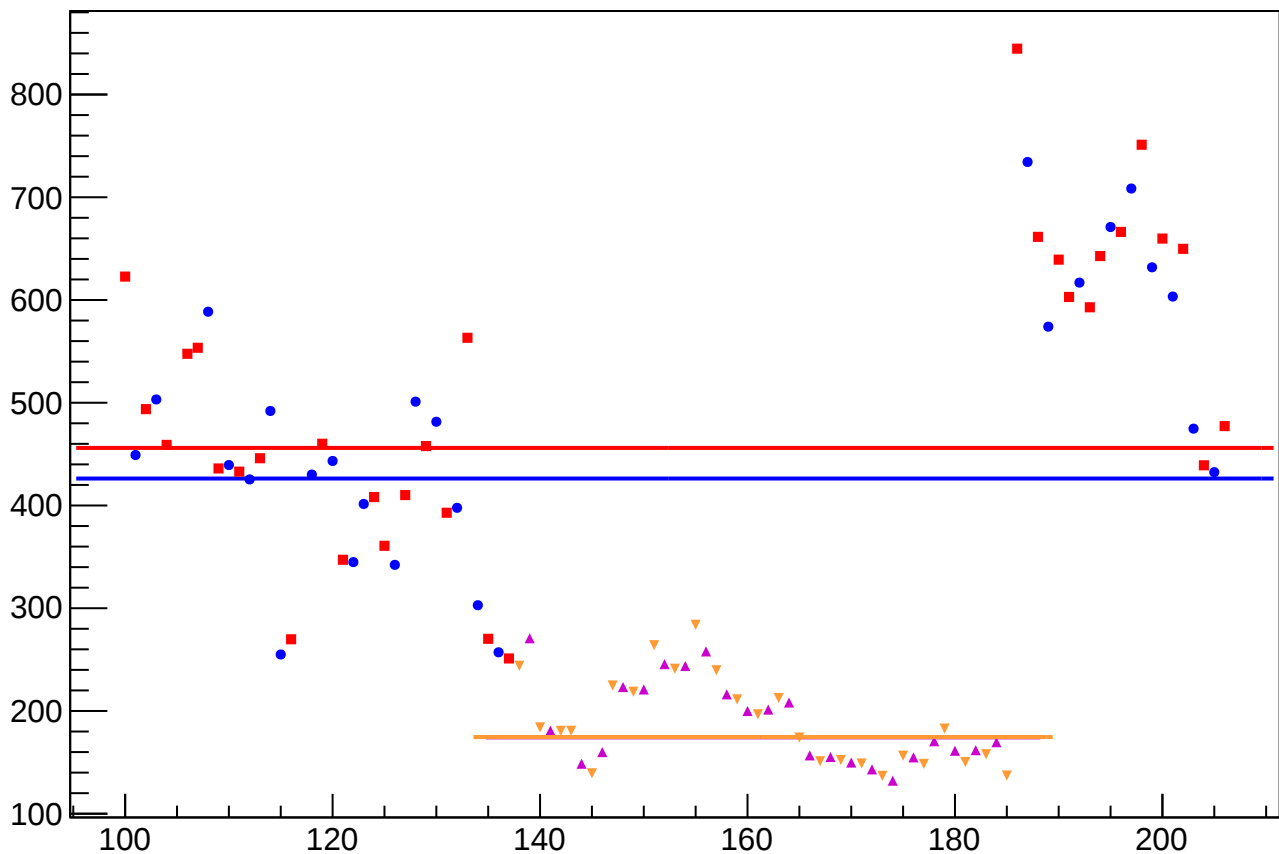
Right: 18.362 ± 87.421 χ^2/NDF : 56.8/56

In: -13.567 ± 40.329 χ^2/NDF : 60.4/48

Out: -148.304 ± 39.434 χ^2/NDF : 96.9/55

All: -82.447 ± 28.195 χ^2/NDF : 163.0/104

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 426.233 $\pm$ 0.088 χ^2 /NDF: 2203683.8/25

Left Out: 174.648 $\pm$ 0.029 χ^2 /NDF:1531999.5/24

Right Out: 456.054 $\pm$ 0.087 χ^2 /NDF: 2469138.3/30

Left In: 174.288 $\pm$ 0.030 χ^2 /NDF:1344779.5/22

Left: 174.472 $\pm$ 0.021 χ^2 /NDF: 2876851.9/47

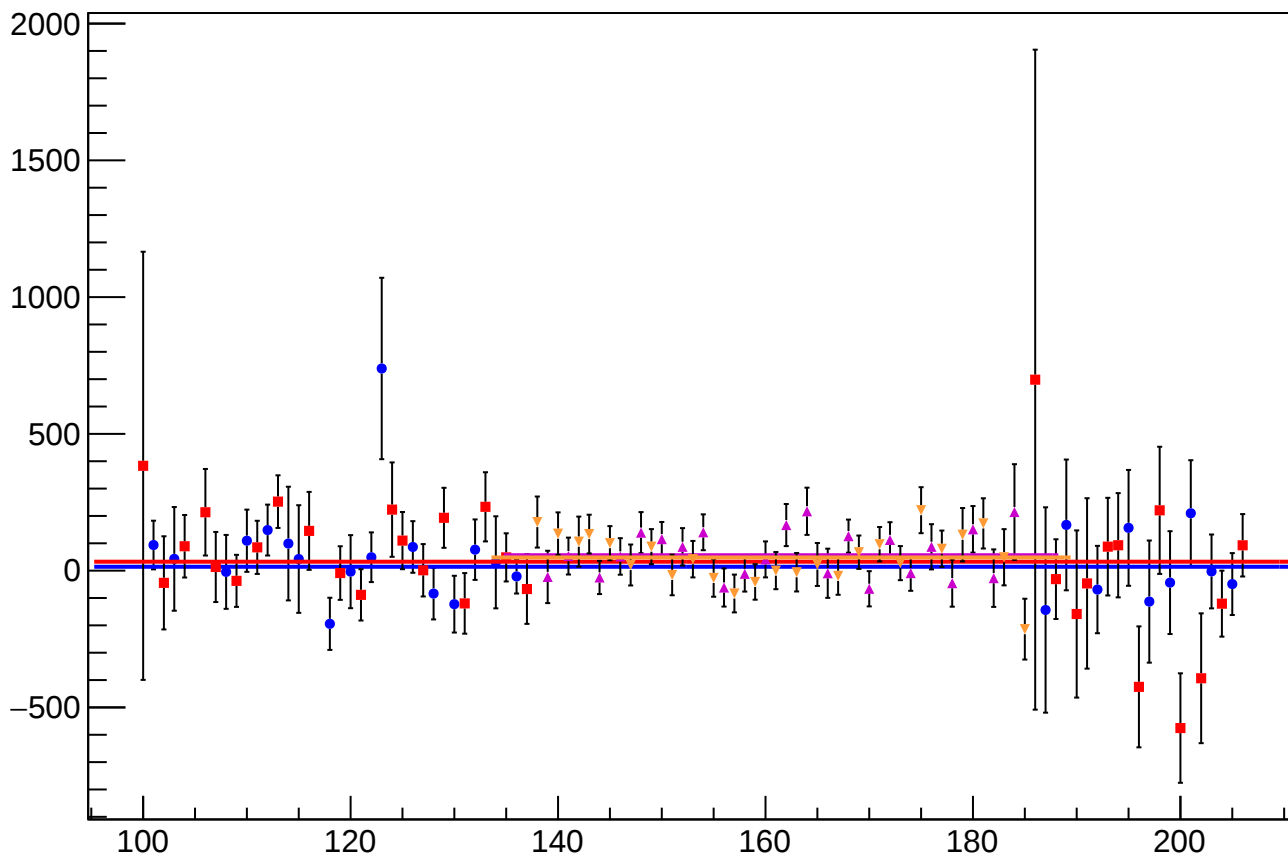
Right: 441.339 $\pm$ 0.062 χ^2 /NDF: 4730995.9/56

In: 200.746 $\pm$ 0.029 χ^2 /NDF:10884657.3/48

Out: 203.653 $\pm$ 0.028 χ^2 /NDF:13416819.7/55

All: 202.232 $\pm$ 0.020 χ^2 /NDF: 24306788.3/10

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 14.200 $\pm$ 24.033 χ^2 /NDF: 20.7/25

Left Out: 48.233 $\pm$ 14.616 χ^2 /NDF:29.3/24

Right Out: 32.720 $\pm$ 23.490 χ^2 /NDF: 40.0/30

Left In: 56.403 $\pm$ 15.182 χ^2 /NDF:27.5/22

Left: 52.163 $\pm$ 10.529 χ^2 /NDF: 56.9/47

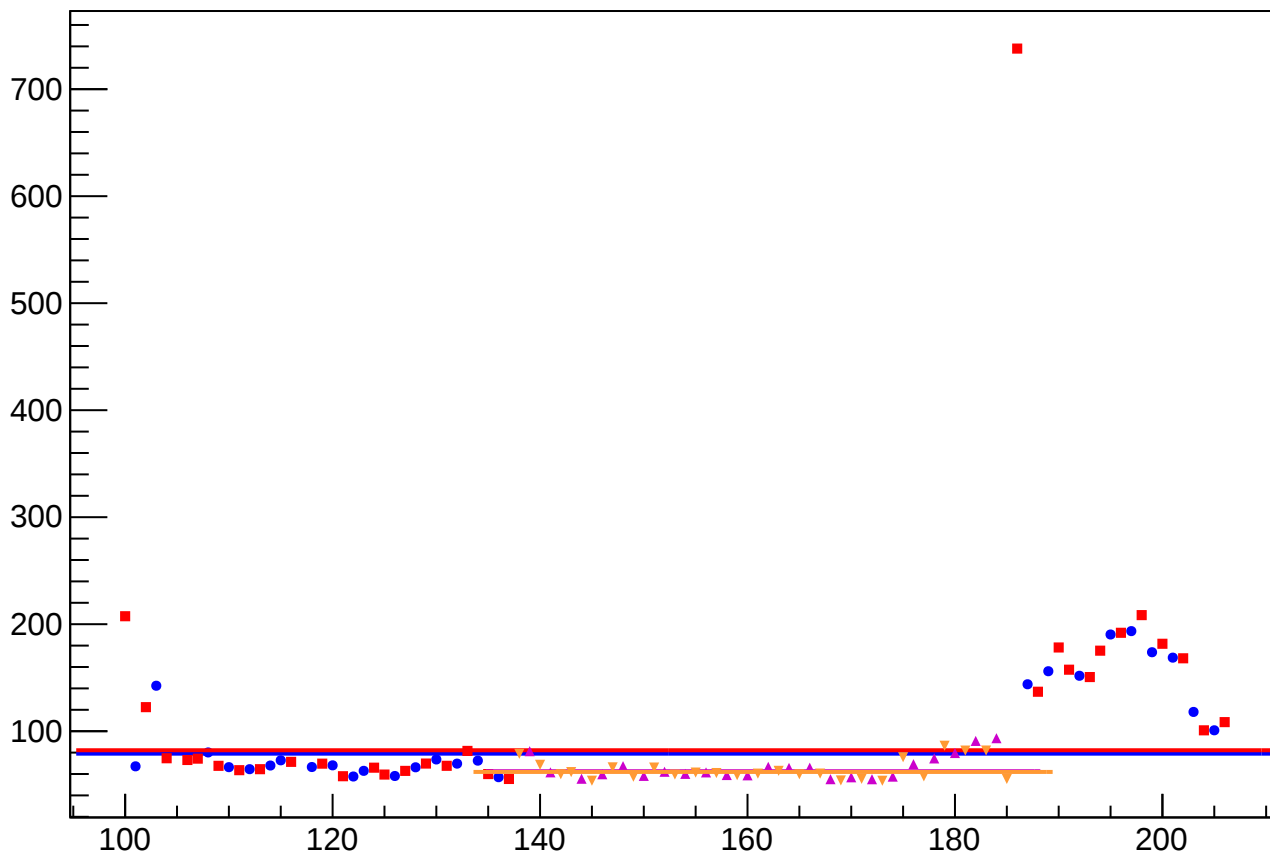
Right: 23.672 $\pm$ 16.799 χ^2 /NDF: 61.0/56

In: 44.366 $\pm$ 12.835 χ^2 /NDF:50.3/48

Out: 43.904 $\pm$ 12.410 χ^2 /NDF:69.6/55

All: 44.127 $\pm$ 8.922 χ^2 /NDF: 119.9/104

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 79.022 $\pm$ 0.017 χ^2 /NDF: 3848171.7/25

Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24

Right Out: 82.200 $\pm$ 0.017 χ^2 /NDF: 4974287.8/30

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

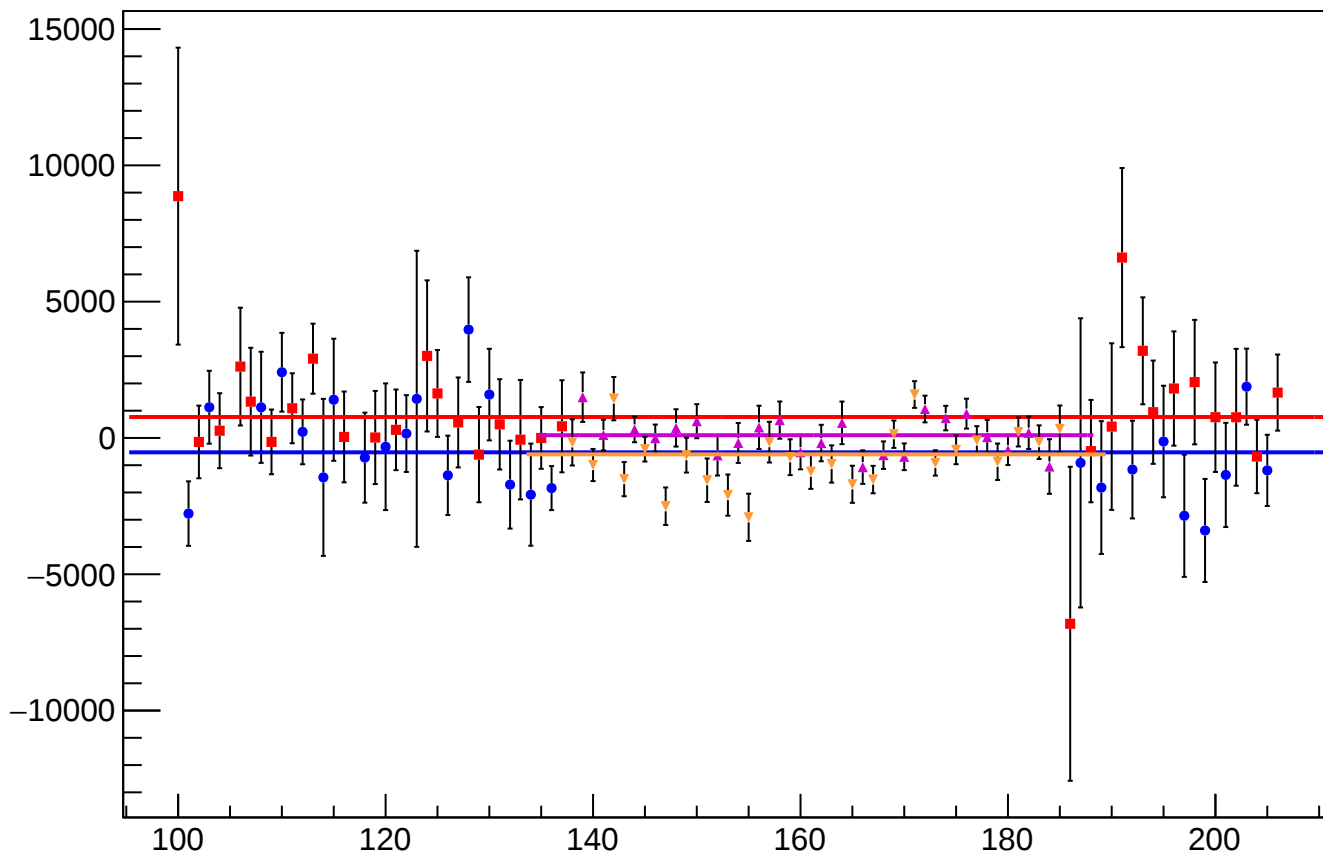
Right: 80.647 $\pm$ 0.012 χ^2 /NDF: 8840353.4/56

In: 67.289 $\pm$ 0.009 χ^2 /NDF: 5090535.4/48

Out: 67.599 $\pm$ 0.009 χ^2 /NDF: 6651166.5/55

All: 67.449 $\pm$ 0.006 χ^2 /NDF: 11742304.8/104

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -527.333+/-315.929 χ^2/NDF : 30.1/25

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 768.033+/-307.945 χ^2/NDF : 18.8/30

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

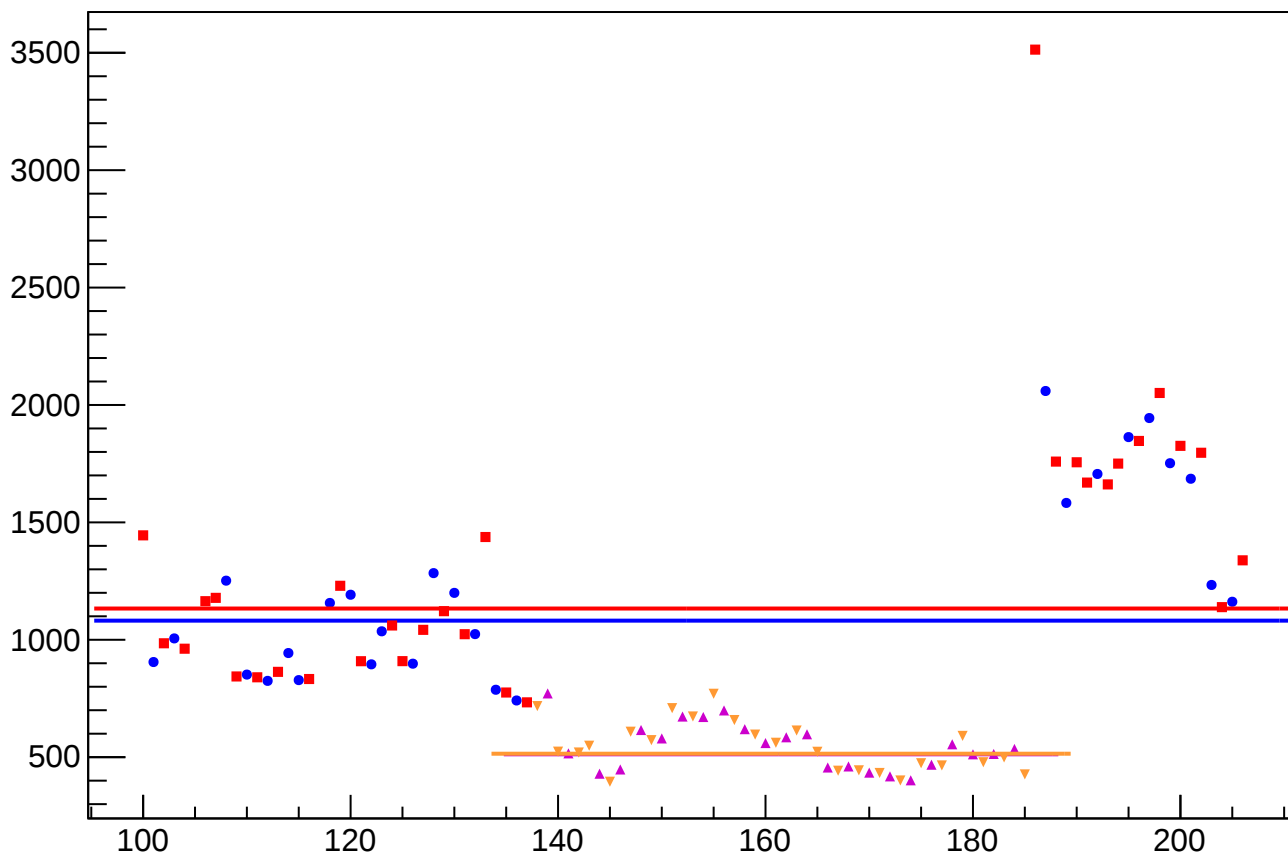
Right: 136.925+/-220.518 χ^2/NDF : 57.6/56

In: 15.884+/-116.011 χ^2/NDF : 59.0/48

Out: -415.382+/-113.518 χ^2/NDF : 101.3/55

All: -204.433+/-81.137 χ^2/NDF : 167.4/104

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1081.498+/-0.223 χ^2/NDF : 2219096.7/25

Left Out: 514.758+/-0.086 χ^2/NDF :1194945.9/24

Right Out: 1133.090+/-0.218 χ^2/NDF : 2932656.3/30

Left In: 512.199+/-0.088 χ^2/NDF :1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

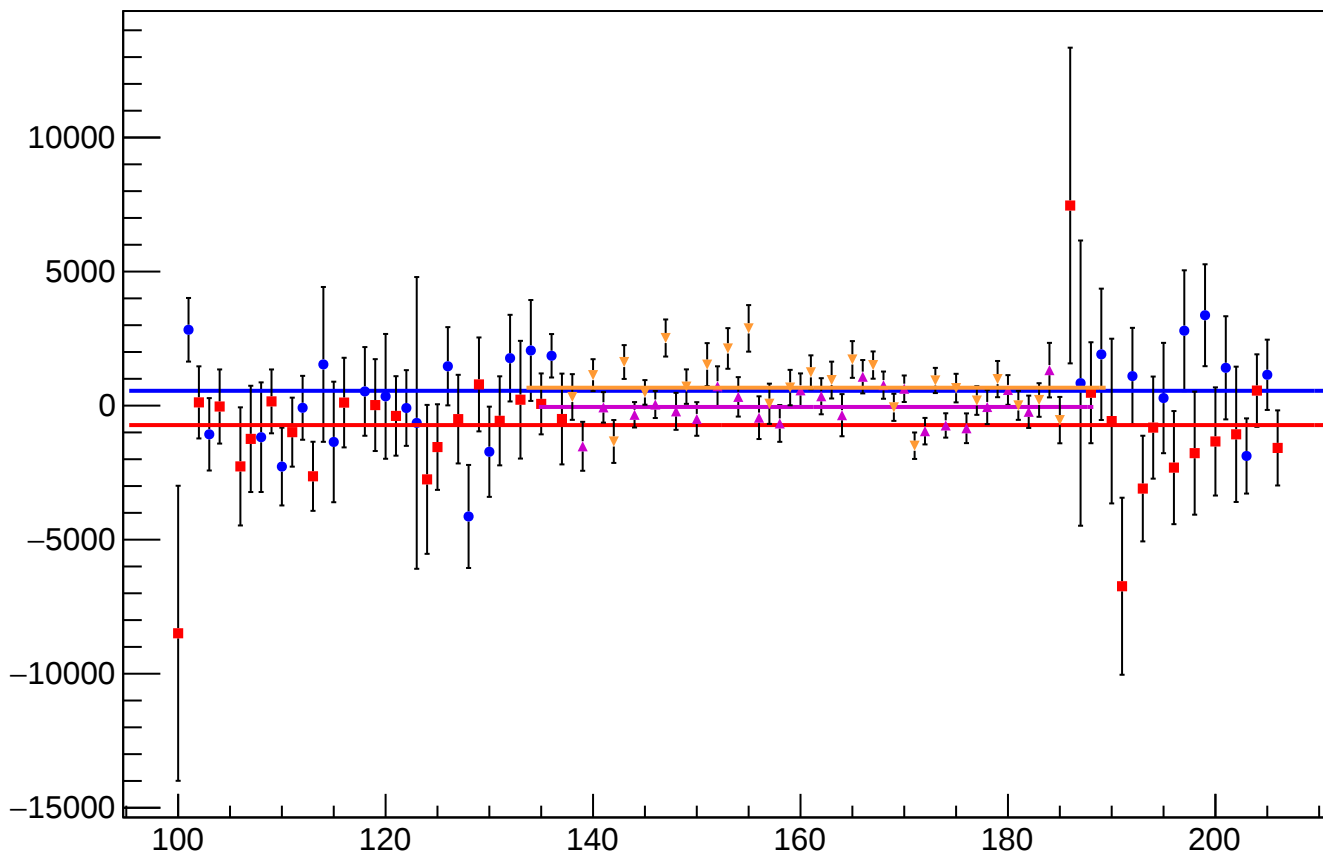
Right: 1107.954+/-0.156 χ^2/NDF : 5179103.1/56

In: 588.964+/-0.082 χ^2/NDF :8878991.9/48

Out: 598.783+/-0.080 χ^2/NDF :11095428.6/55

All: 593.980+/-0.057 χ^2/NDF : 19981739.3/10

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 552.540+/-317.125 χ^2/NDF : 30.0/25

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -726.016+/-309.238 χ^2/NDF : 18.0/30

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

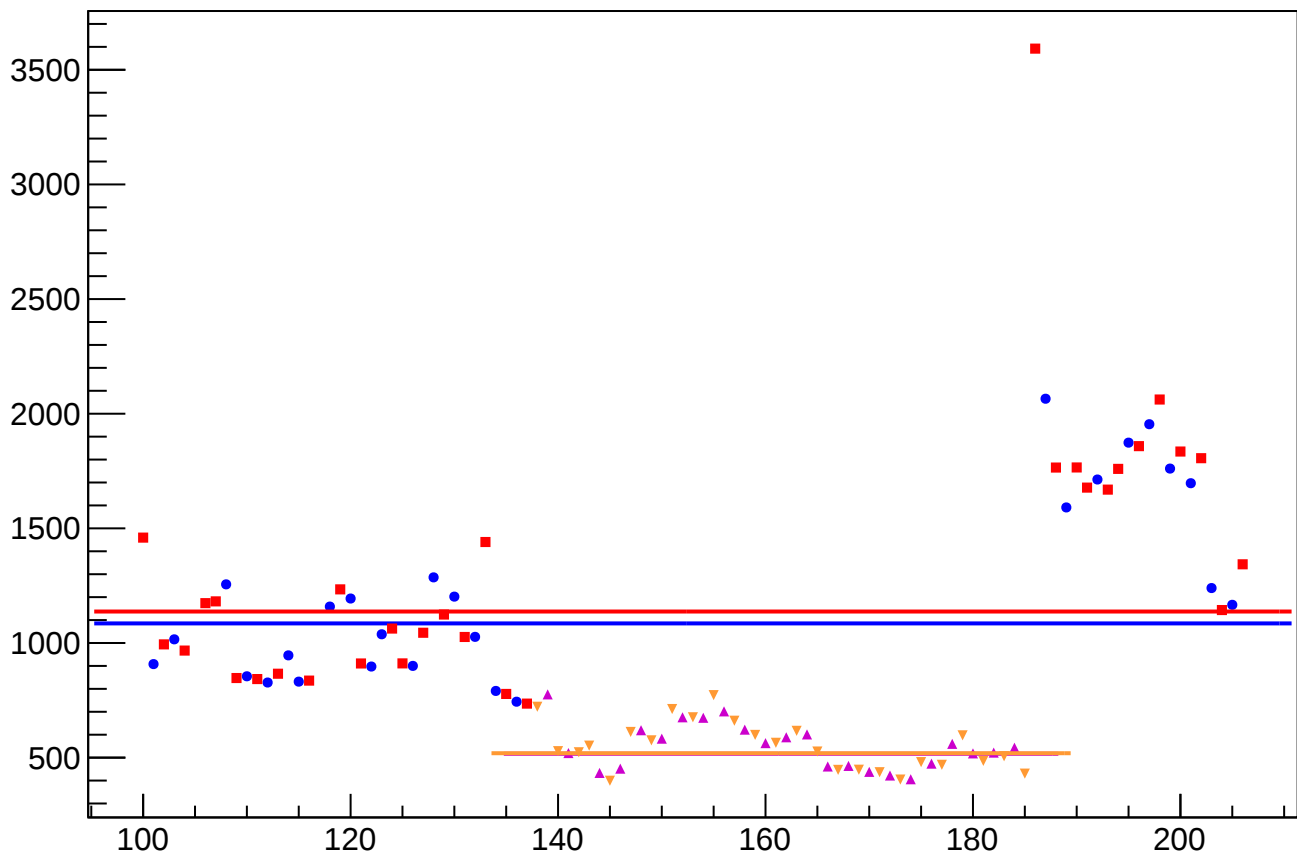
Right: -102.835+/-221.400 χ^2/NDF : 56.4/56

In: 31.863+/-116.939 χ^2/NDF : 59.2/48

Out: 476.869+/-114.408 χ^2/NDF : 97.0/55

All: 259.235+/-81.779 χ^2/NDF : 163.7/104

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1085.437 $\pm$ 0.224 χ^2/NDF : 2226258.1/25

Left Out: 519.254 $\pm$ 0.087 χ^2/NDF : 1172411.1/24

Right Out: 1137.270 $\pm$ 0.219 χ^2/NDF : 2947248.4/30

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

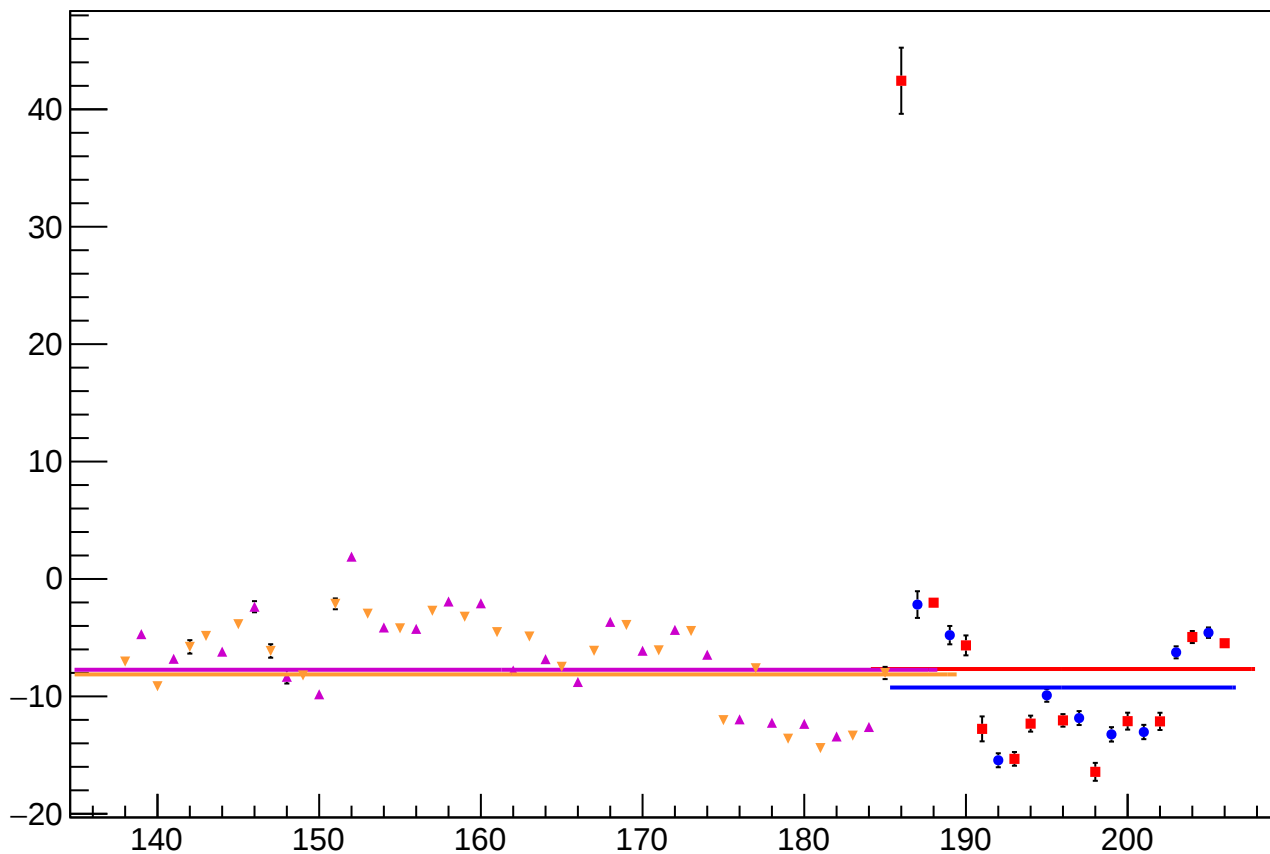
Right: 1112.006 $\pm$ 0.157 χ^2/NDF : 5200894.0/56

In: 594.114 $\pm$ 0.083 χ^2/NDF : 8803828.8/48

Out: 603.845 $\pm$ 0.081 χ^2/NDF : 11014391.8/55

All: 599.086 $\pm$ 0.058 χ^2/NDF : 19825297.5/10

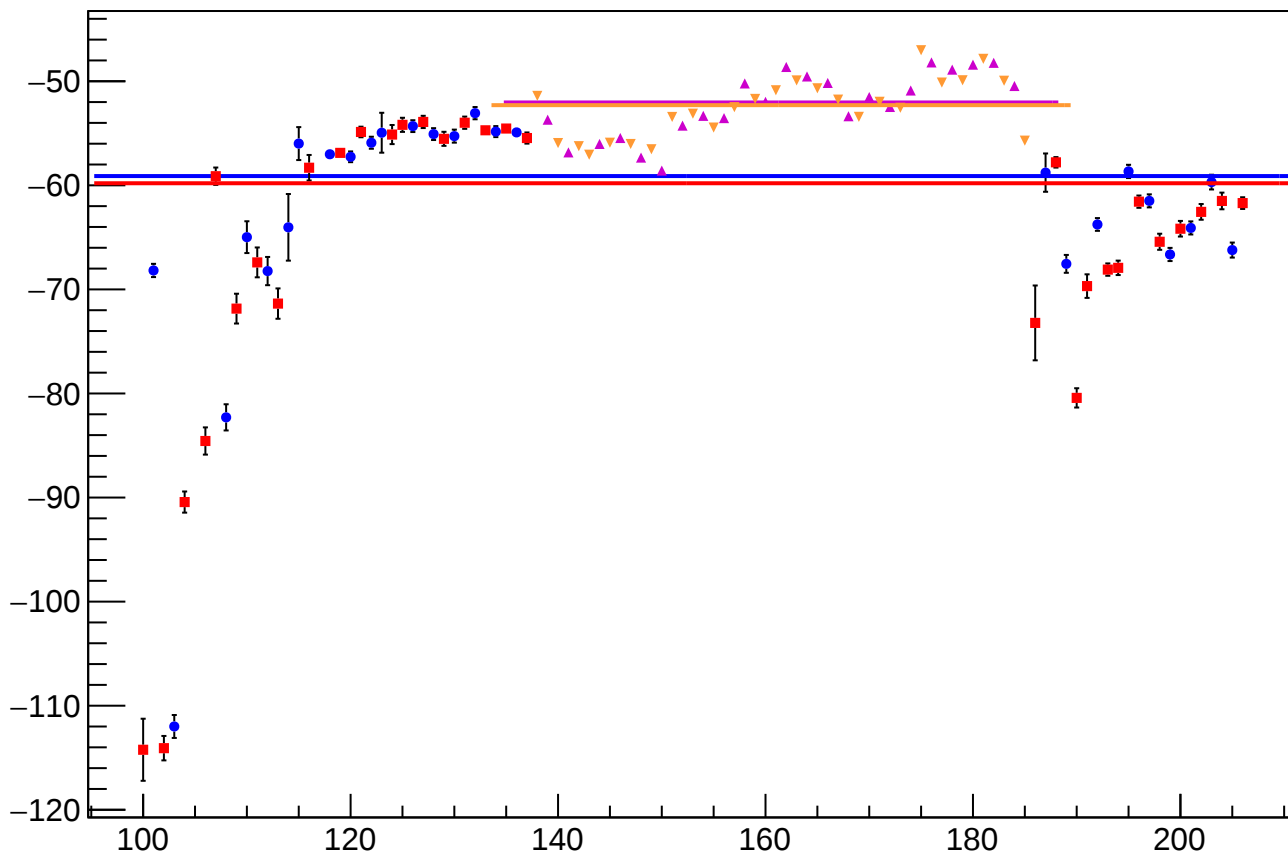
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.244 ± 0.198 $\chi^2/\text{NDF}: 425.0/8$
 Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$
 Right Out: -7.668 ± 0.167 $\chi^2/\text{NDF}: 1180.3/11$
 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: -8.324 ± 0.128 $\chi^2/\text{NDF}: 1642.4/20$
 In: -7.895 ± 0.065 $\chi^2/\text{NDF}: 4196.2/31$
 Out: -8.063 ± 0.062 $\chi^2/\text{NDF}: 4822.3/36$
 All: -7.982 ± 0.045 $\chi^2/\text{NDF}: 9022.0/68$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -59.110 ± 0.122 $\chi^2/\text{NDF}: 4044.5/25$

Left Out: -52.297 ± 0.055 $\chi^2/\text{NDF}: 2657.5/24$

Right Out: -59.800 ± 0.117 $\chi^2/\text{NDF}: 5969.5/30$

Left In: -52.038 ± 0.057 $\chi^2/\text{NDF}: 3180.4/22$

Left: -52.172 ± 0.040 $\chi^2/\text{NDF}: 5848.6/47$

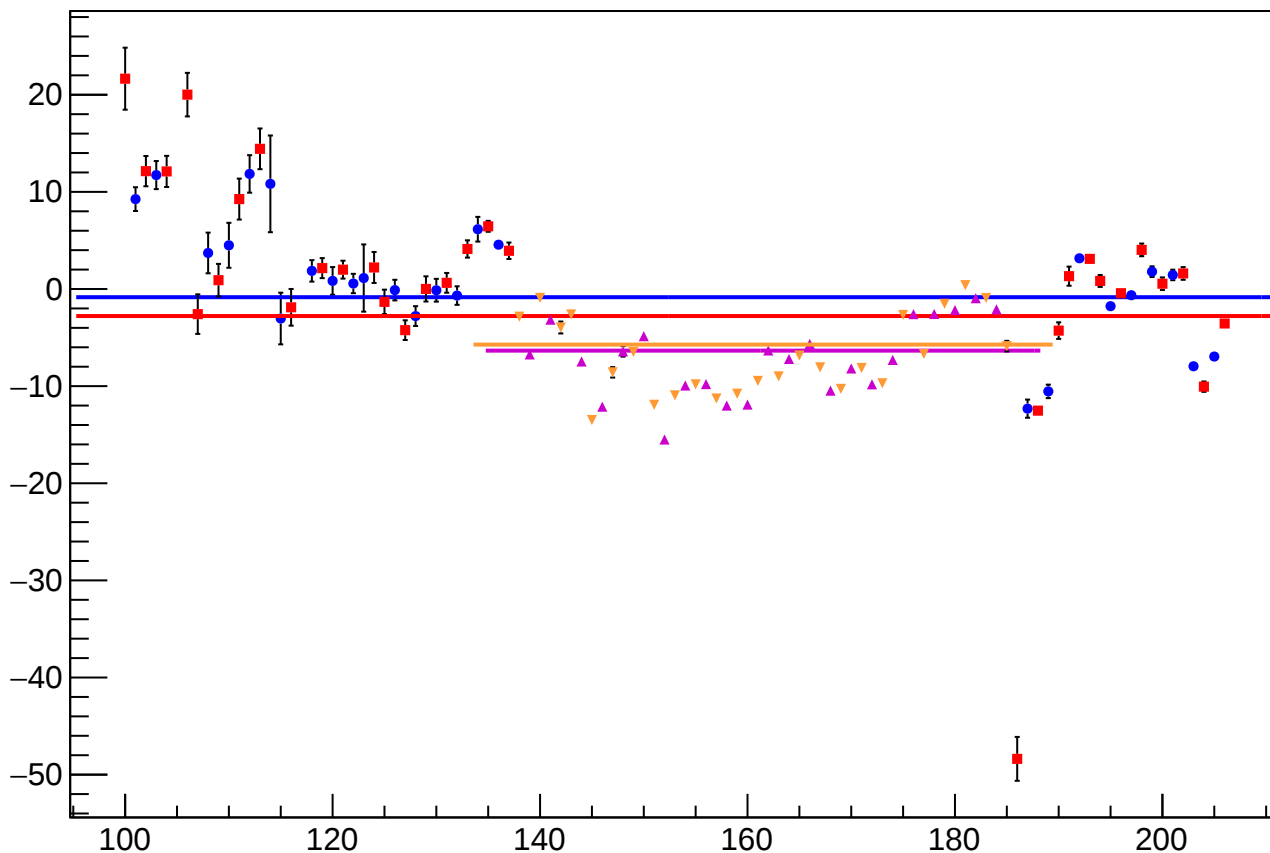
Right: -59.468 ± 0.085 $\chi^2/\text{NDF}: 10030.6/56$

In: -53.308 ± 0.052 $\chi^2/\text{NDF}: 9974.8/48$

Out: -53.648 ± 0.050 $\chi^2/\text{NDF}: 11972.0/55$

All: -53.485 ± 0.036 $\chi^2/\text{NDF}: 21969.3/104$

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.843 ± 0.148 χ^2/NDF : 1242.2/25

Left Out: -5.722 ± 0.068 χ^2/NDF : 3983.0/24

Right Out: -2.782 ± 0.130 χ^2/NDF : 3188.3/30

Left In: -6.344 ± 0.069 χ^2/NDF : 3383.7/22

Left: -6.028 ± 0.048 χ^2/NDF : 7408.5/47

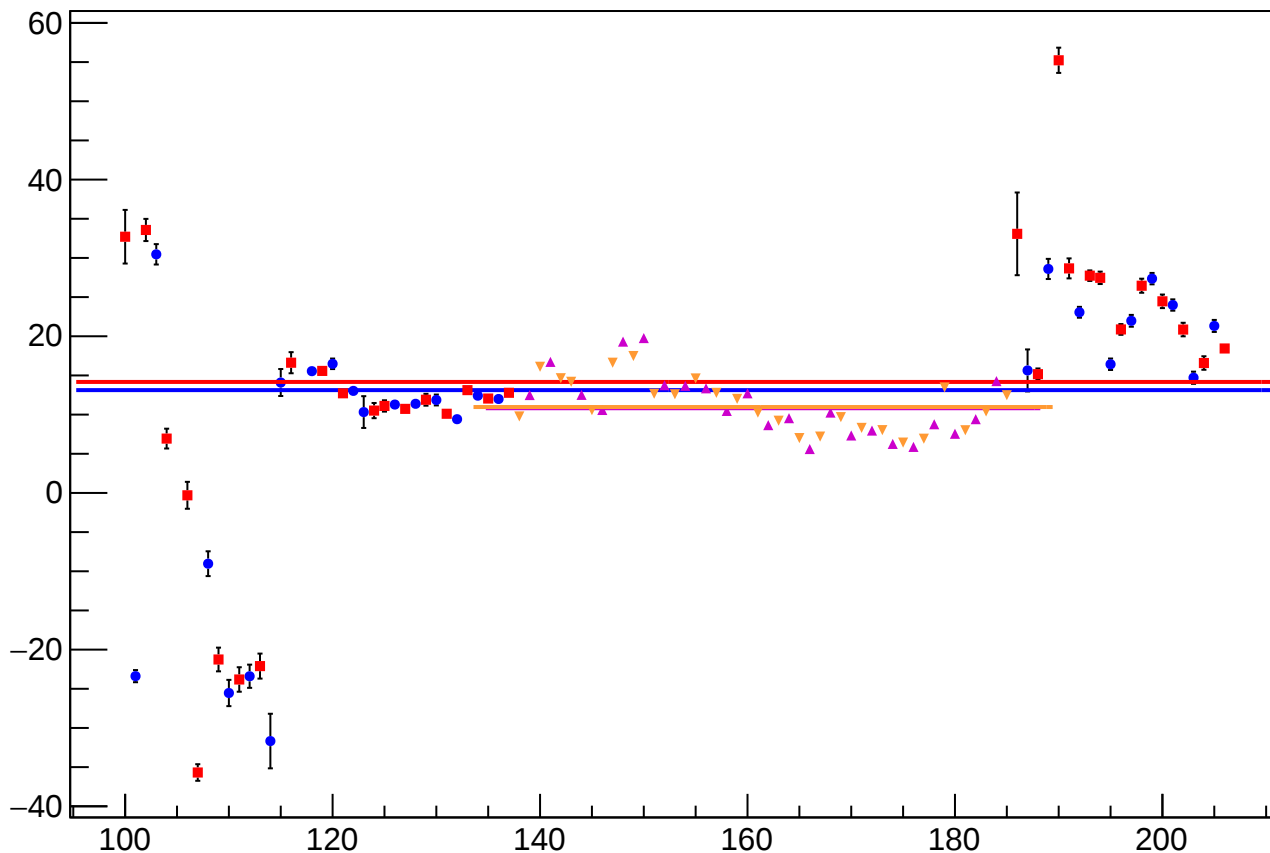
Right: -1.942 ± 0.098 χ^2/NDF : 4527.4/56

In: -5.374 ± 0.062 χ^2/NDF : 5758.8/48

Out: -5.094 ± 0.060 χ^2/NDF : 7575.5/55

All: -5.229 ± 0.043 χ^2/NDF : 13344.8/104

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.126 $\pm$ 0.137 χ^2 /NDF: 5253.6/25

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF: 2637.7/24

Right Out: 14.170 $\pm$ 0.134 χ^2 /NDF: 6399.3/30

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

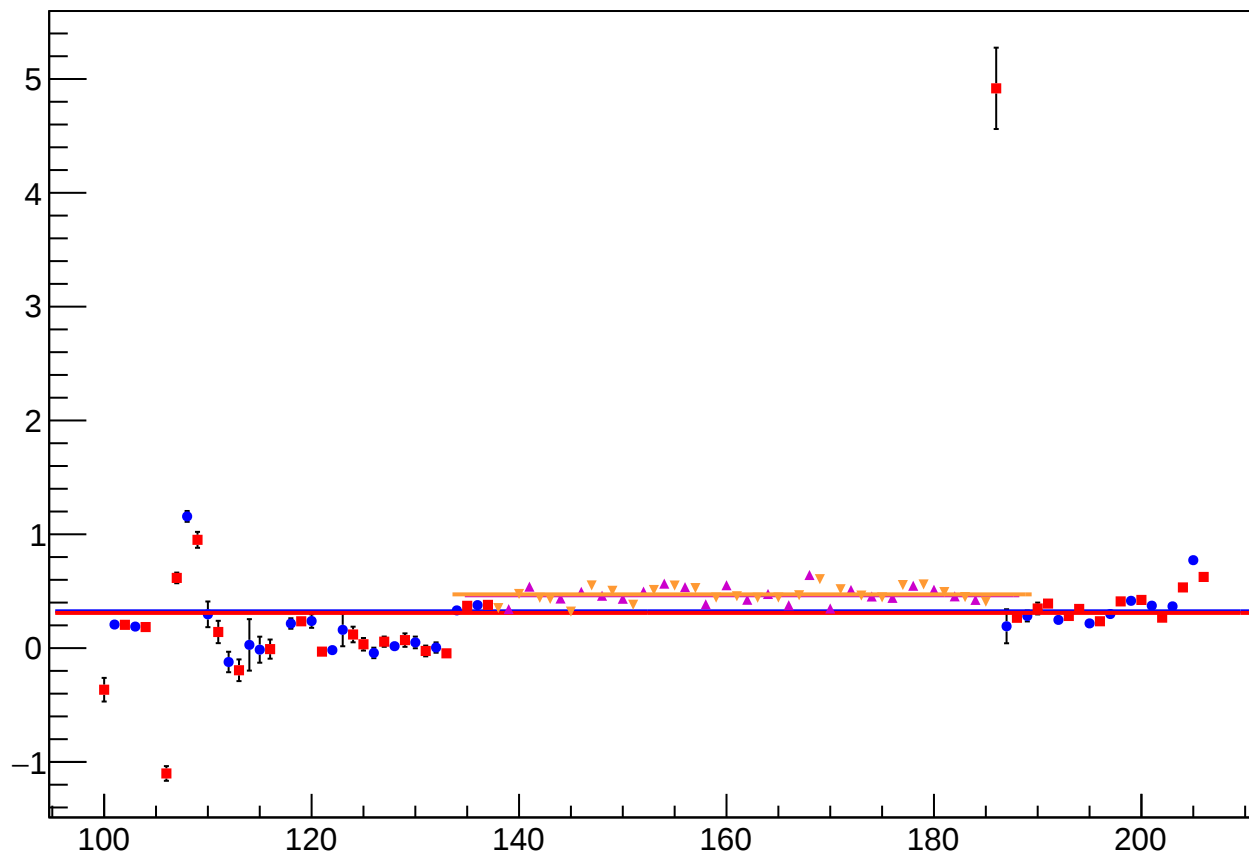
Right: 13.659 $\pm$ 0.096 χ^2 /NDF: 11682.8/56

In: 11.220 $\pm$ 0.057 χ^2 /NDF: 9036.3/48

Out: 11.524 $\pm$ 0.056 χ^2 /NDF: 9510.2/55

All: 11.376 $\pm$ 0.040 χ^2 /NDF: 18560.9/104

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.323 ± 0.006 $\chi^2/\text{NDF}: 883.2/25$

Left Out: 0.472 ± 0.003 $\chi^2/\text{NDF}: 519.0/24$

Right Out: 0.309 ± 0.006 $\chi^2/\text{NDF}: 1503.2/30$

Left In: 0.464 ± 0.003 $\chi^2/\text{NDF}: 733.1/22$

Left: 0.468 ± 0.002 $\chi^2/\text{NDF}: 1256.2/47$

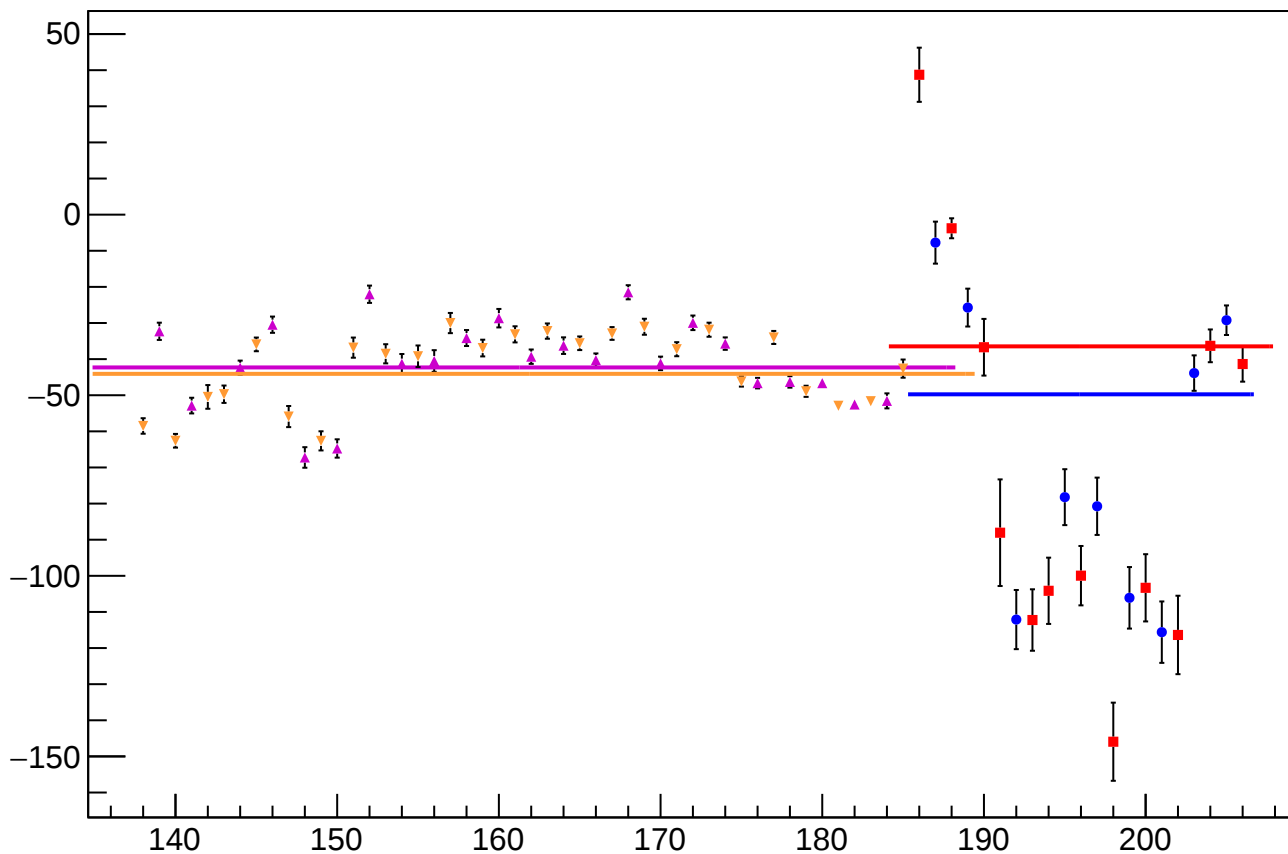
Right: 0.316 ± 0.004 $\chi^2/\text{NDF}: 2389.2/56$

In: 0.439 ± 0.003 $\chi^2/\text{NDF}: 2072.9/48$

Out: 0.442 ± 0.002 $\chi^2/\text{NDF}: 2662.3/55$

All: 0.441 ± 0.002 $\chi^2/\text{NDF}: 4736.0/104$

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



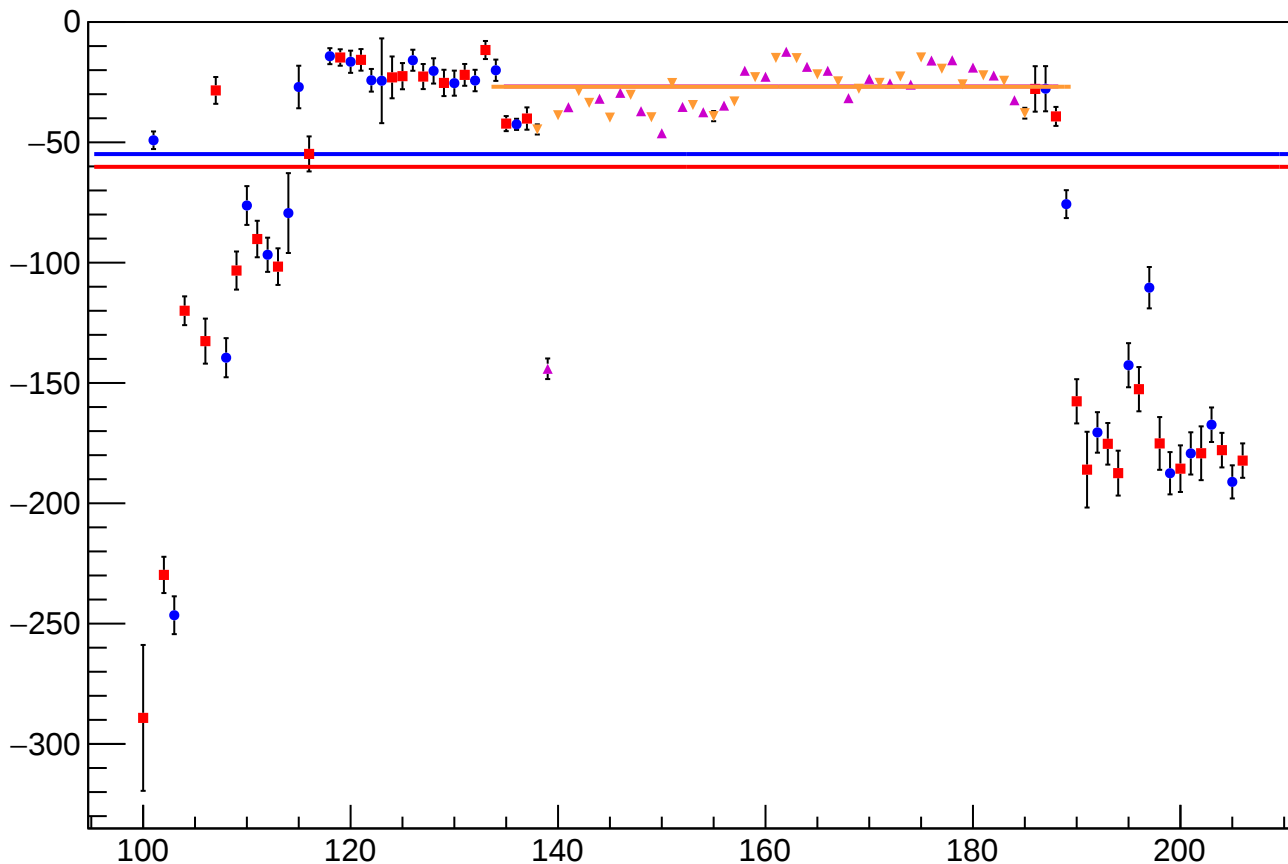
Right In: -49.746 ± 2.032 $\chi^2/\text{NDF}: 290.2/8$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: -36.469 ± 1.744 $\chi^2/\text{NDF}: 655.0/11$
 Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$
 Right: -42.100 ± 1.323 $\chi^2/\text{NDF}: 969.8/20$

In: -42.580 ± 0.392 $\chi^2/\text{NDF}: 943.7/31$
 Out: -43.717 ± 0.379 $\chi^2/\text{NDF}: 1305.7/36$

All: -43.167 ± 0.272 $\chi^2/\text{NDF}: 2253.8/68$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -54.882 ± 1.052 $\chi^2/\text{NDF}: 2725.4/25$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -60.183 ± 1.069 $\chi^2/\text{NDF}: 3187.4/30$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

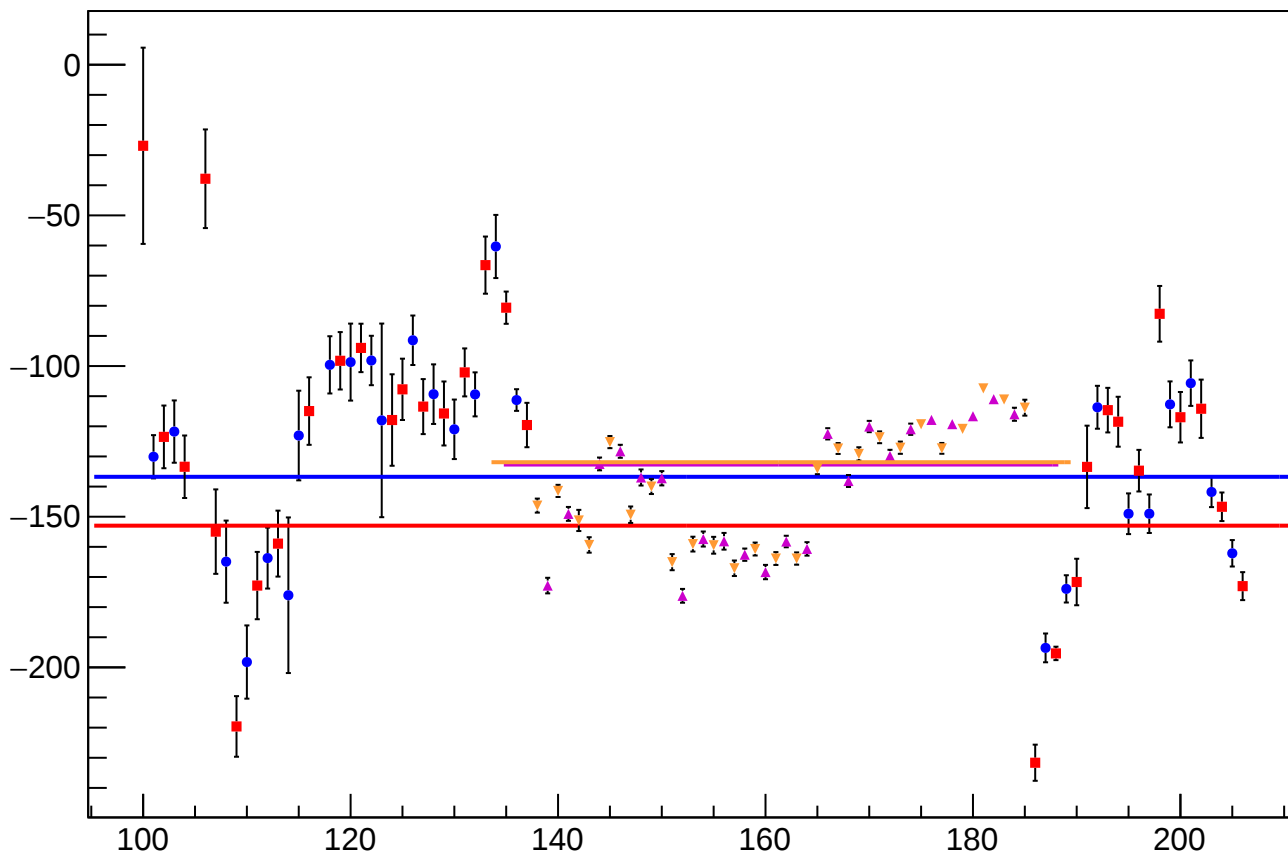
Right: -57.489 ± 0.750 $\chi^2/\text{NDF}: 5925.3/56$

In: -29.241 ± 0.312 $\chi^2/\text{NDF}: 4771.2/48$

Out: -29.580 ± 0.303 $\chi^2/\text{NDF}: 4709.5/55$

All: -29.415 ± 0.217 $\chi^2/\text{NDF}: 9481.3/104$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -136.757 $\pm$ 1.393 χ^2 /NDF: 535.4/25

Left Out: -131.912 $\pm$ 0.391 χ^2 /NDF:2439.3/24

Right Out: -152.972 $\pm$ 1.253 χ^2 /NDF: 1311.1/30

Left In: -132.690 $\pm$ 0.399 χ^2 /NDF:2480.2/22

Left: -132.293 $\pm$ 0.280 χ^2 /NDF: 4921.5/47

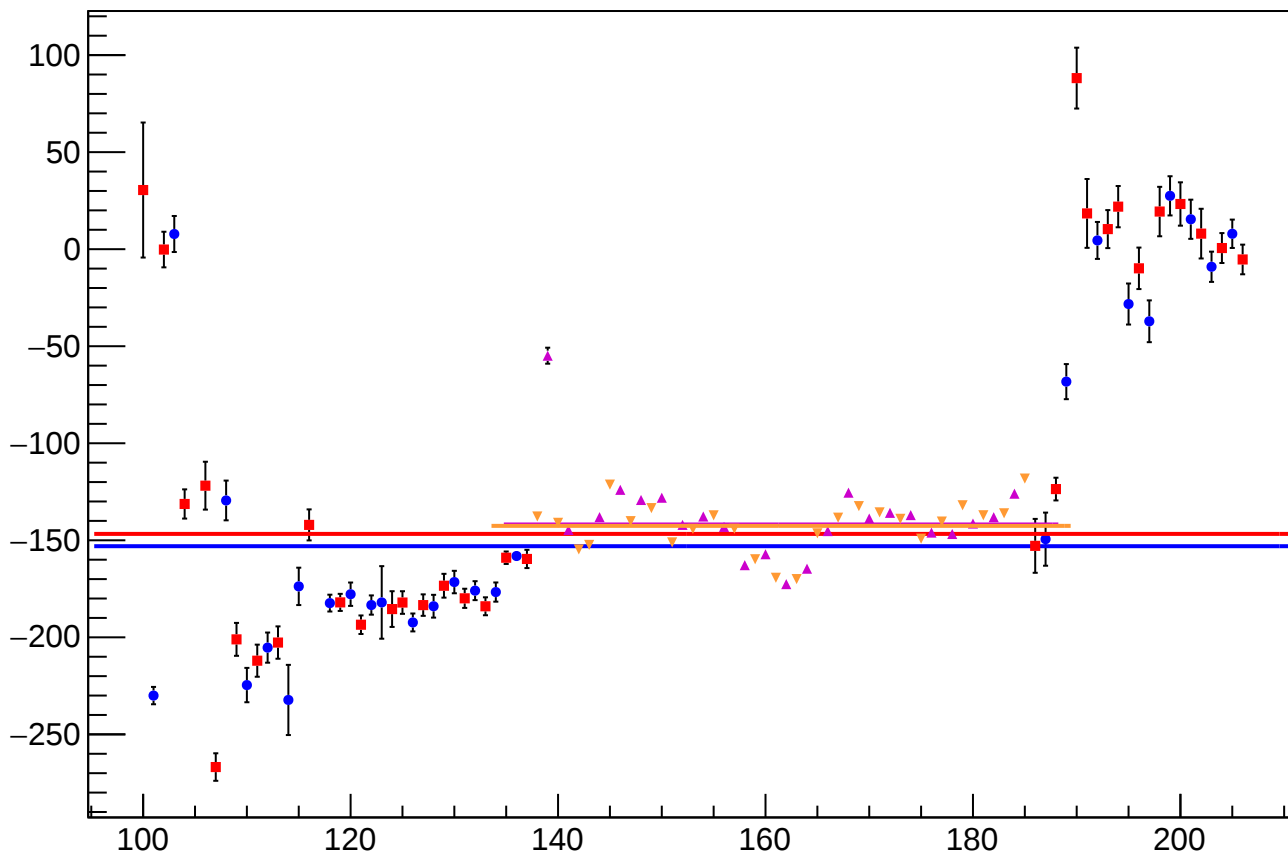
Right: -145.719 $\pm$ 0.932 χ^2 /NDF: 1921.4/56

In: -132.998 $\pm$ 0.384 χ^2 /NDF:3023.5/48

Out: -133.785 $\pm$ 0.374 χ^2 /NDF:4007.7/55

All: -133.402 $\pm$ 0.268 χ^2 /NDF: 7033.4/104

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -153.043 ± 1.185 χ^2/NDF : 3040.5/25

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -146.706 ± 1.226 χ^2/NDF : 3390.3/30

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

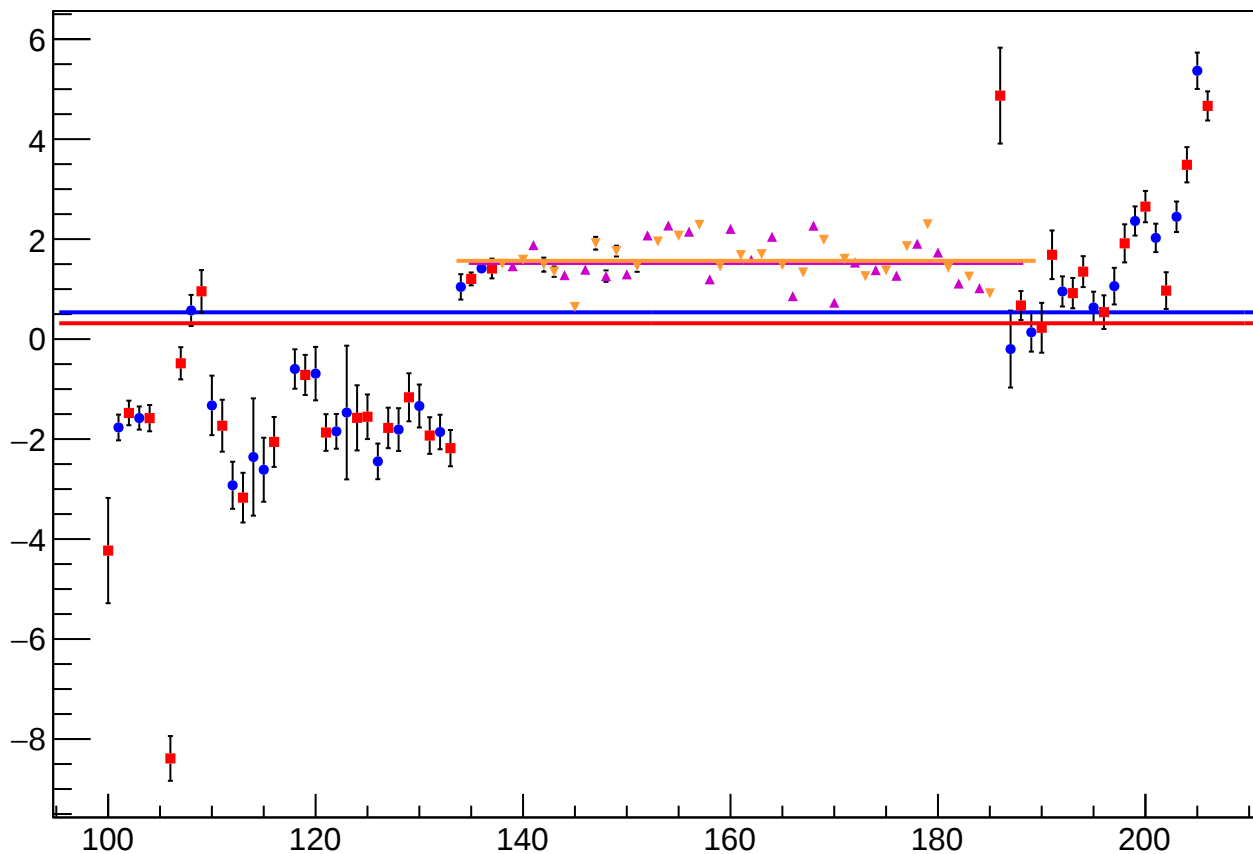
Right: -149.983 ± 0.852 χ^2/NDF : 6444.6/56

In: -142.820 ± 0.348 χ^2/NDF : 4666.2/48

Out: -142.883 ± 0.340 χ^2/NDF : 4548.5/55

All: -142.852 ± 0.243 χ^2/NDF : 9214.8/104

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.536 ± 0.058 χ^2/NDF : 861.4/25

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: 0.317 ± 0.059 χ^2/NDF : 1292.5/30

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

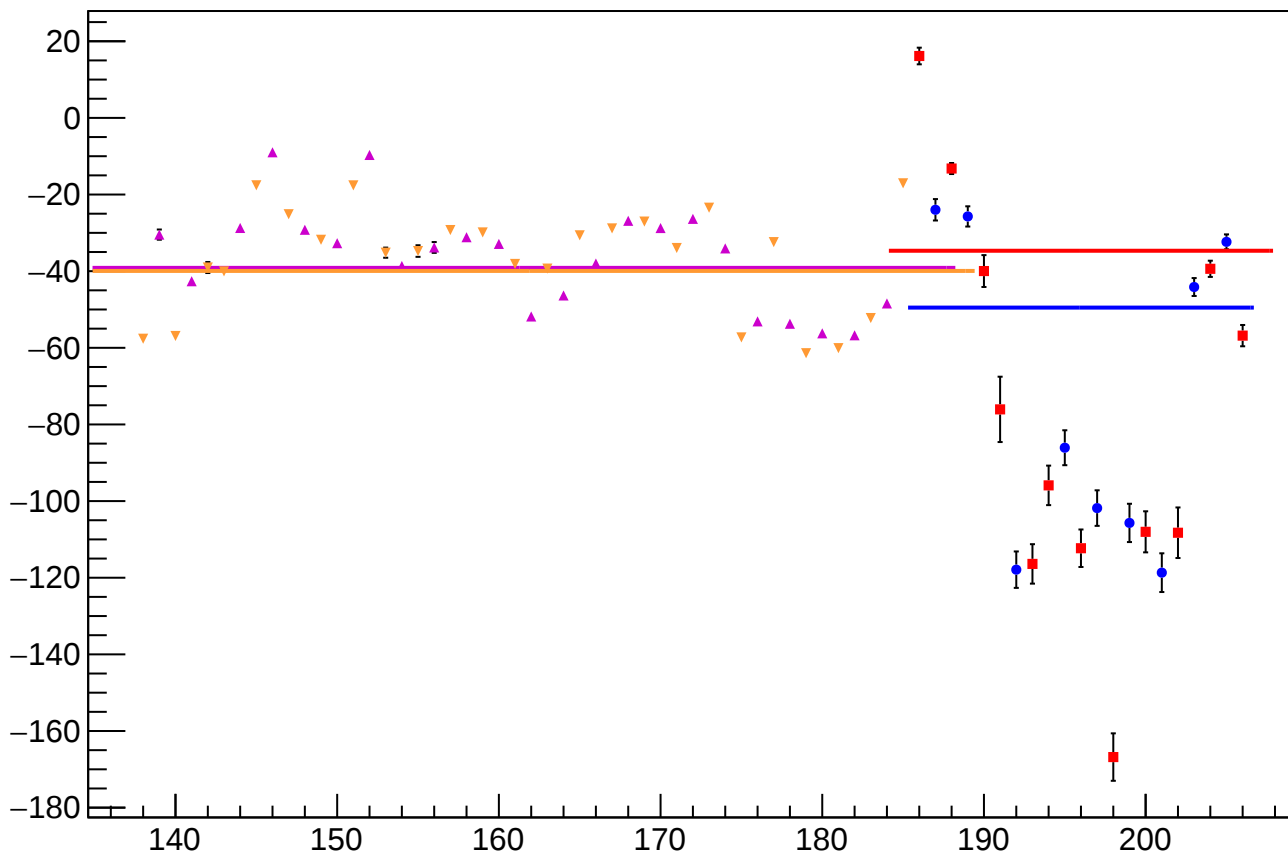
Right: 0.428 ± 0.041 χ^2/NDF : 2161.0/56

In: 1.448 ± 0.016 χ^2/NDF : 1870.8/48

Out: 1.477 ± 0.016 χ^2/NDF : 2258.7/55

All: 1.463 ± 0.011 χ^2/NDF : 4131.3/104

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -49.505 ± 1.034 $\chi^2/\text{NDF}: 959.8/8$

Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$

Right Out: -34.669 ± 0.870 $\chi^2/\text{NDF}: 2275.6/11$

Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

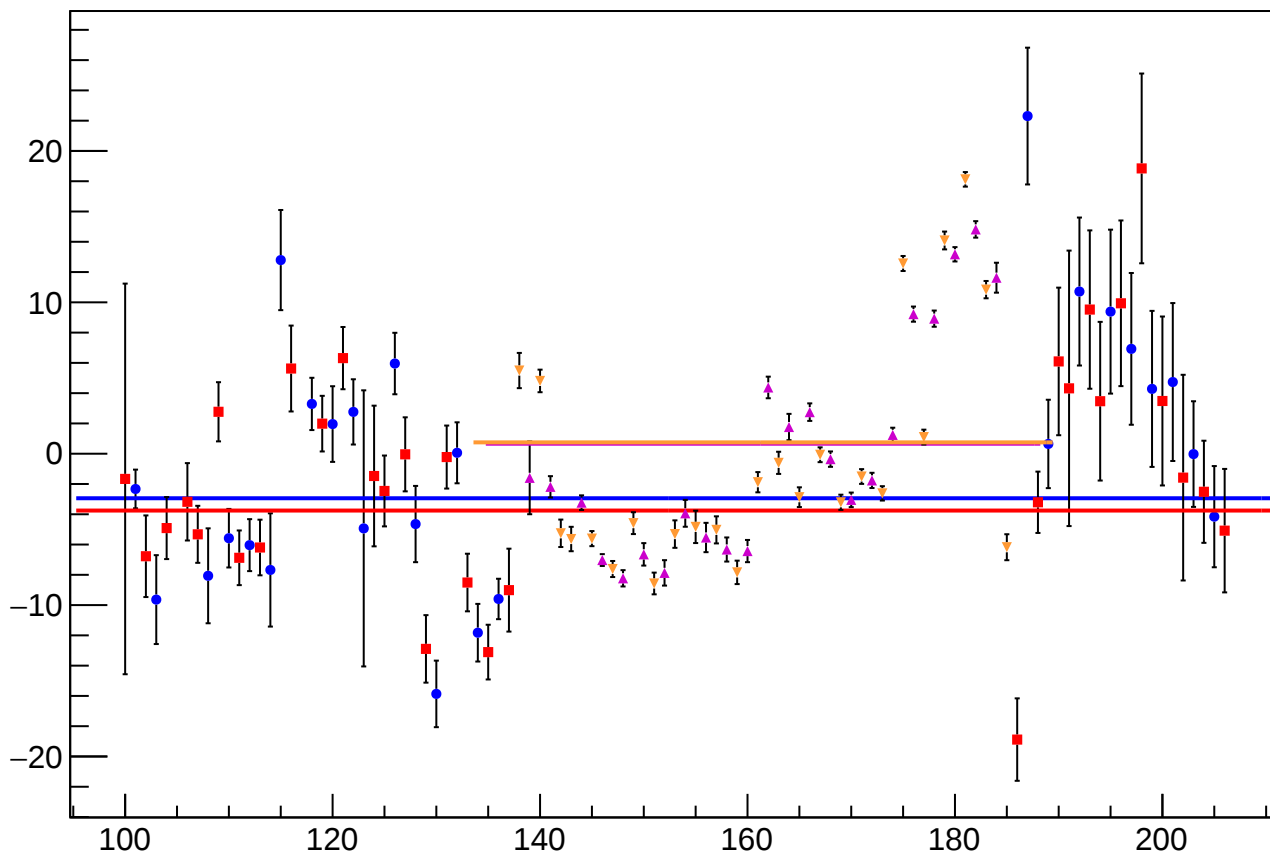
Right: -40.824 ± 0.666 $\chi^2/\text{NDF}: 3355.8/20$

In: -39.364 ± 0.153 $\chi^2/\text{NDF}: 9592.6/31$

Out: -39.777 ± 0.151 $\chi^2/\text{NDF}: 12117.6/36$

All: -39.573 ± 0.107 $\chi^2/\text{NDF}: 21713.9/68$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.942 ± 0.469 $\chi^2/\text{NDF}: 219.0/25$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.754 ± 0.464 $\chi^2/\text{NDF}: 187.6/30$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

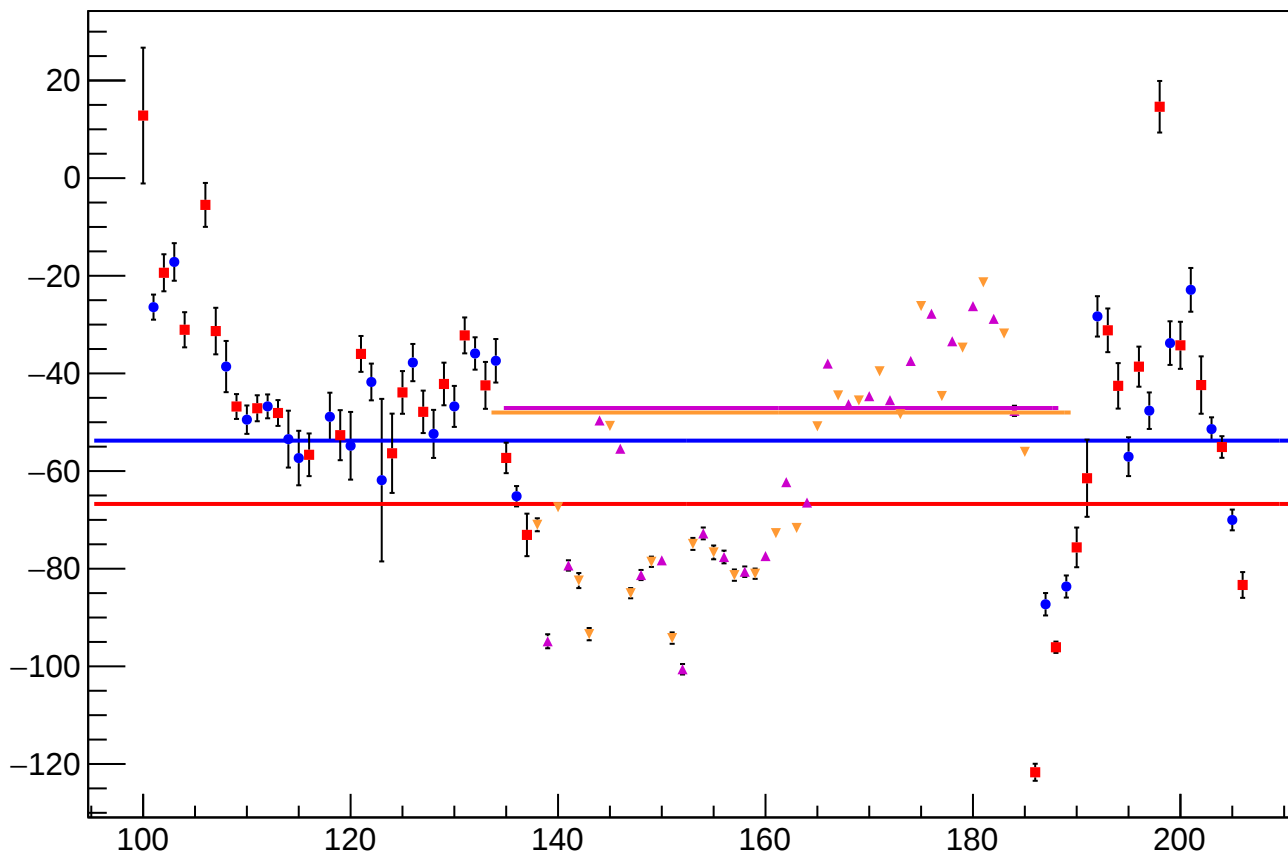
Right: -3.353 ± 0.330 $\chi^2/\text{NDF}: 408.1/56$

In: 0.424 ± 0.120 $\chi^2/\text{NDF}: 3611.9/48$

Out: 0.448 ± 0.120 $\chi^2/\text{NDF}: 4246.4/55$

All: 0.436 ± 0.085 $\chi^2/\text{NDF}: 7858.3/104$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -53.766 ± 0.653 χ^2/NDF : 882.4/25

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -66.736 ± 0.572 χ^2/NDF : 3122.0/30

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

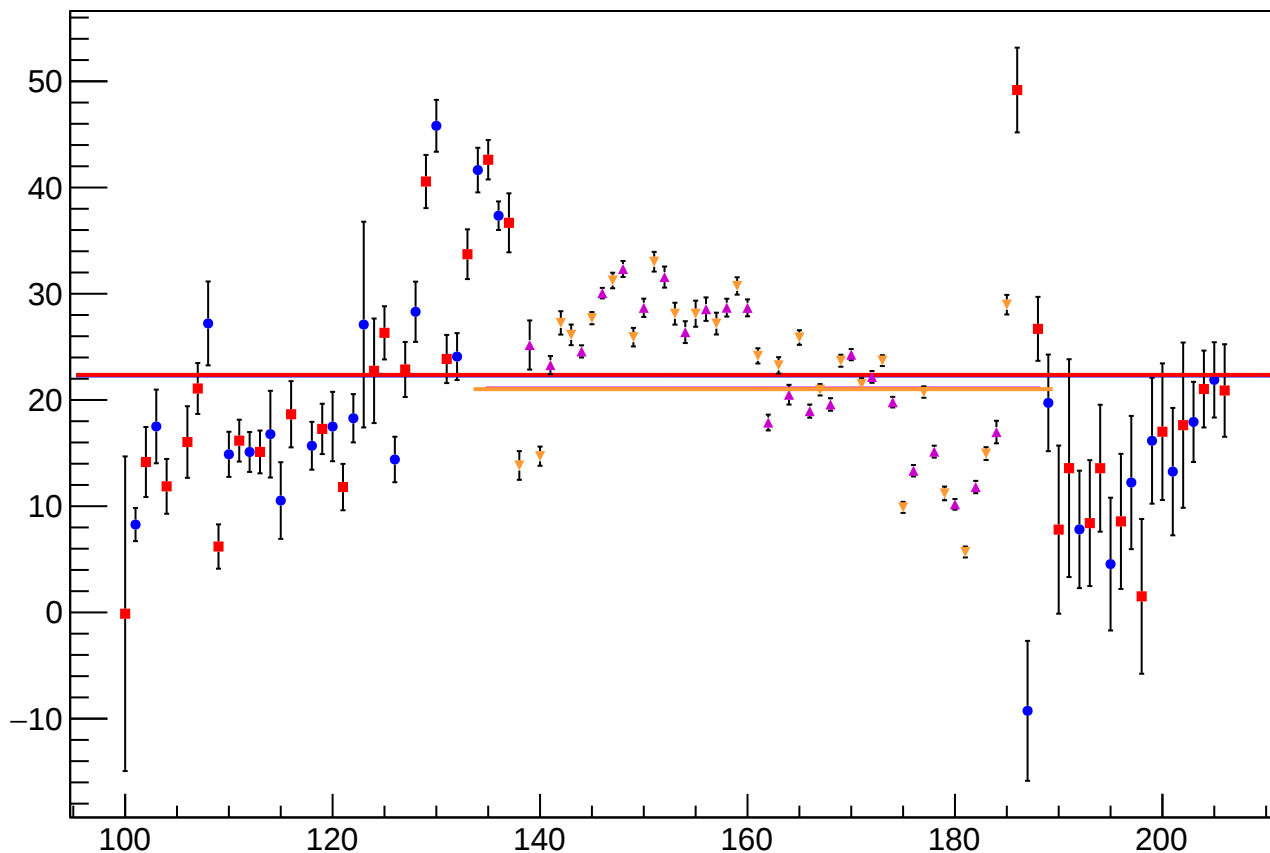
Right: -61.096 ± 0.430 χ^2/NDF : 4227.6/56

In: -47.443 ± 0.151 χ^2/NDF : 16496.8/48

Out: -49.282 ± 0.149 χ^2/NDF : 21069.7/55

All: -48.374 ± 0.106 χ^2/NDF : 37641.5/104

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.306 $\pm$ 0.531 χ^2 /NDF: 504.9/25

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.364 $\pm$ 0.534 χ^2 /NDF: 439.6/30

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

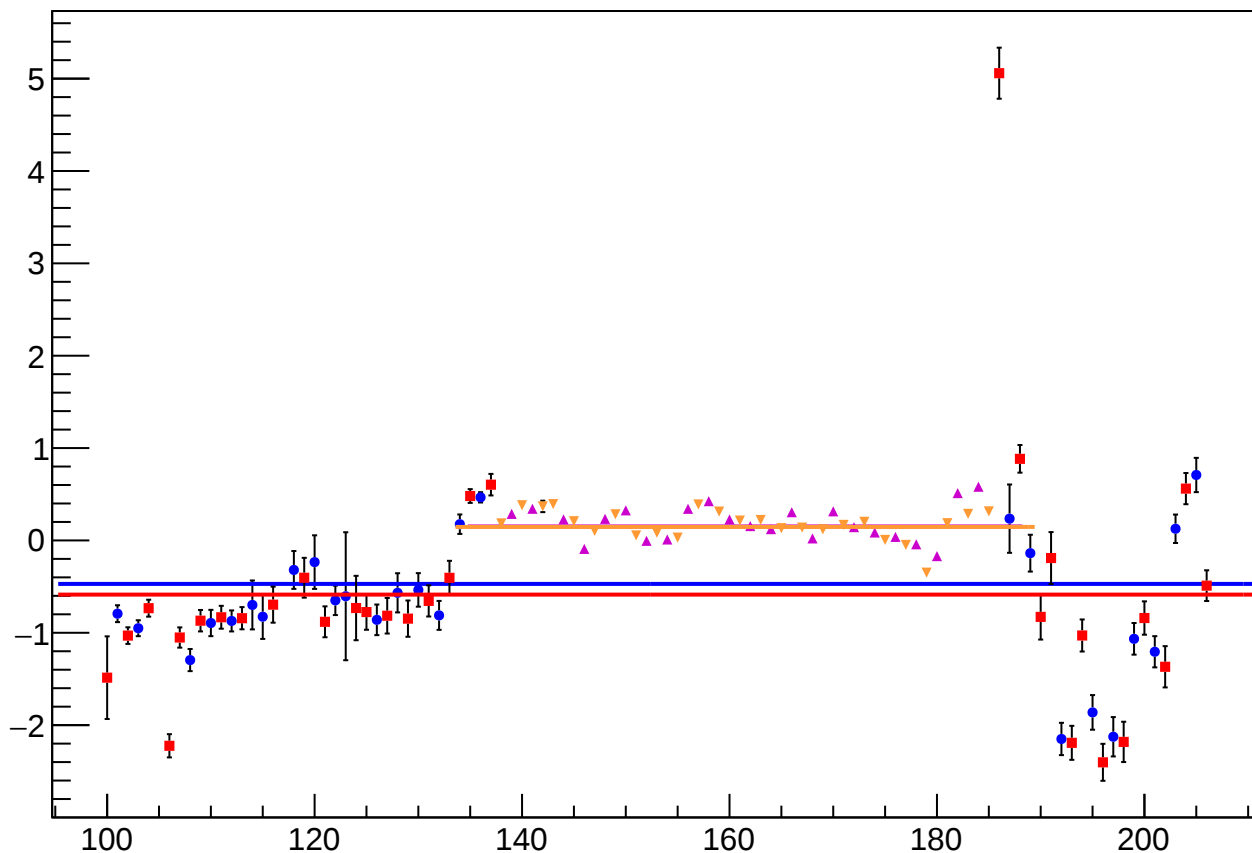
Right: 22.335 $\pm$ 0.376 χ^2 /NDF: 944.6/56

In: 21.158 $\pm$ 0.135 χ^2 /NDF:2683.1/48

Out: 21.105 $\pm$ 0.134 χ^2 /NDF:3244.8/55

All: 21.132 $\pm$ 0.095 χ^2 /NDF: 5928.1/104

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.471 ± 0.027 χ^2/NDF : 747.9/25

Left Out: 0.146 ± 0.006 χ^2/NDF : 610.2/24

Right Out: -0.587 ± 0.027 χ^2/NDF : 1347.4/30

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

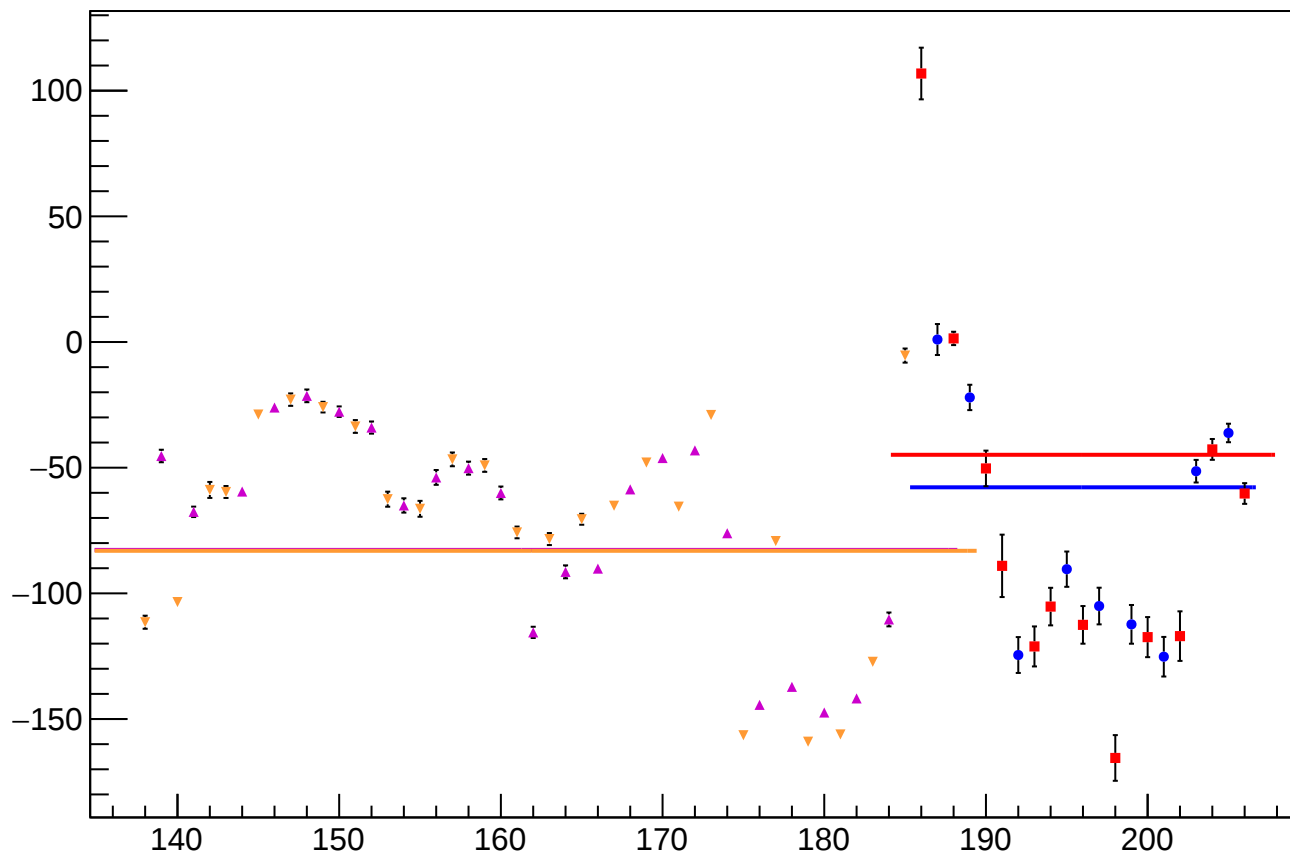
Right: -0.530 ± 0.019 χ^2/NDF : 2104.6/56

In: 0.118 ± 0.006 χ^2/NDF : 2114.5/48

Out: 0.107 ± 0.006 χ^2/NDF : 2674.6/55

All: 0.113 ± 0.004 χ^2/NDF : 4790.8/104

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -57.809 $\pm$ 1.888 χ^2/NDF : 452.0/8

Left Out: -83.068 $\pm$ 0.406 χ^2/NDF :13817.3/24

Right Out: -44.868 $\pm$ 1.612 χ^2/NDF : 1100.9/11

Left In: -82.711 $\pm$ 0.415 χ^2/NDF :10841.4/22

Left: -82.893 $\pm$ 0.290 χ^2/NDF : 24659.1/47

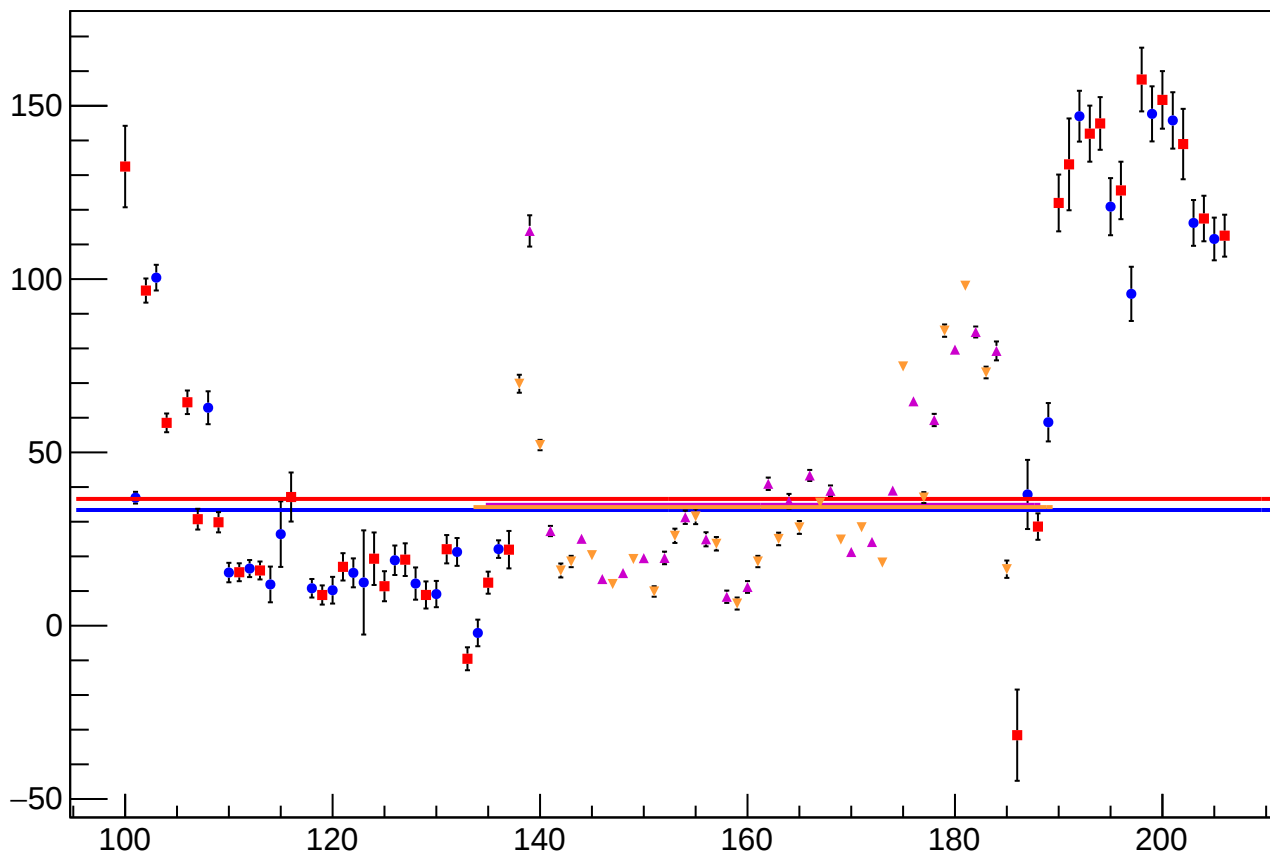
Right: -50.325 $\pm$ 1.226 χ^2/NDF : 1580.0/20

In: -81.562 $\pm$ 0.405 χ^2/NDF :11459.3/31

Out: -80.786 $\pm$ 0.394 χ^2/NDF :15446.0/36

All: -81.163 $\pm$ 0.283 χ^2/NDF : 26907.2/68

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 33.382 $\pm$ 0.766 χ^2 /NDF: 1946.1/25

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF:6192.6/24

Right Out: 36.576 $\pm$ 0.756 χ^2 /NDF: 2594.4/30

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

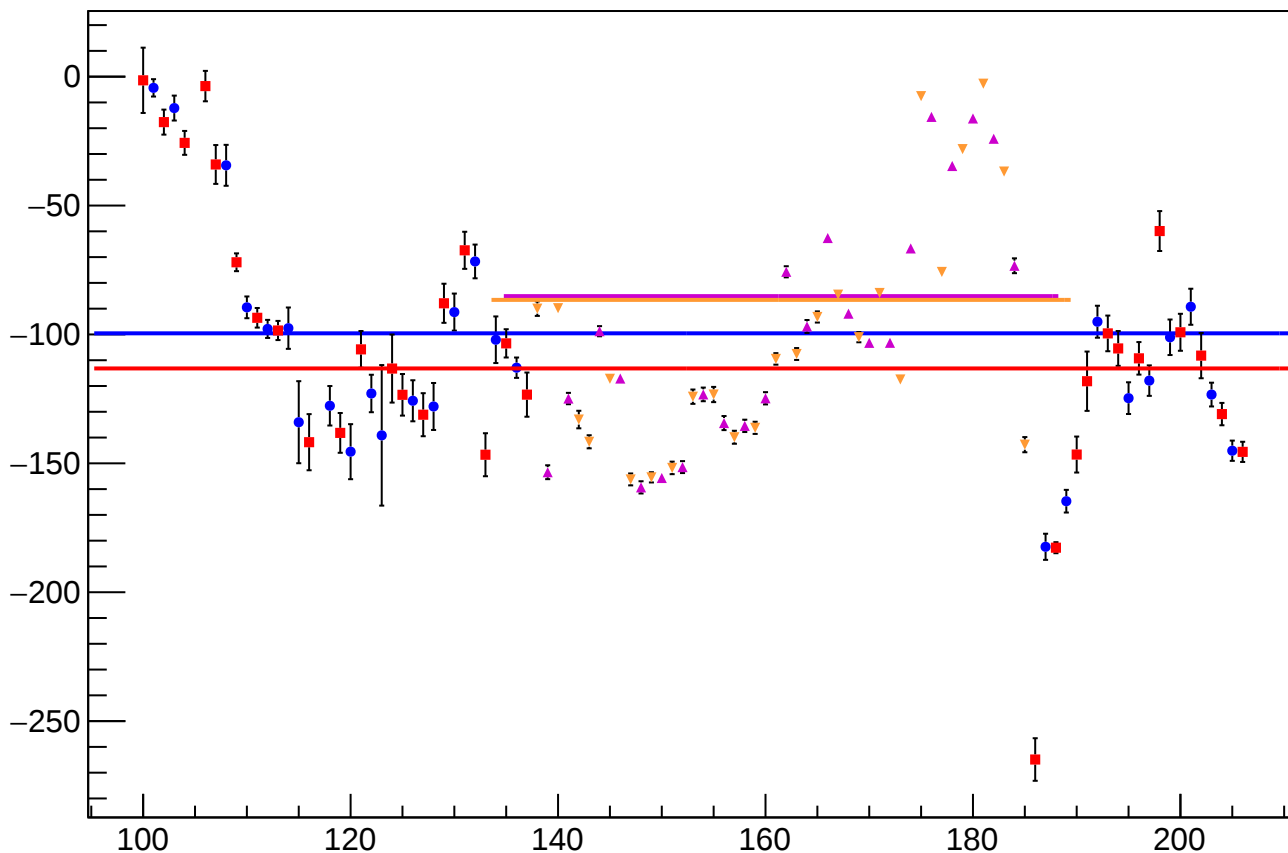
Right: 34.999 $\pm$ 0.538 χ^2 /NDF: 4549.4/56

In: 34.638 $\pm$ 0.302 χ^2 /NDF:6665.4/48

Out: 34.578 $\pm$ 0.295 χ^2 /NDF:8795.3/55

All: 34.607 $\pm$ 0.211 χ^2 /NDF: 15460.7/104

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -99.566 $\pm$ 1.103 χ^2/NDF : 1976.1/25

Left Out: -86.595 $\pm$ 0.408 χ^2/NDF : 14515.7/24

Right Out: -113.190 $\pm$ 0.980 χ^2/NDF : 3113.1/30

Left In: -85.134 $\pm$ 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 $\pm$ 0.291 χ^2/NDF : 27363.3/47

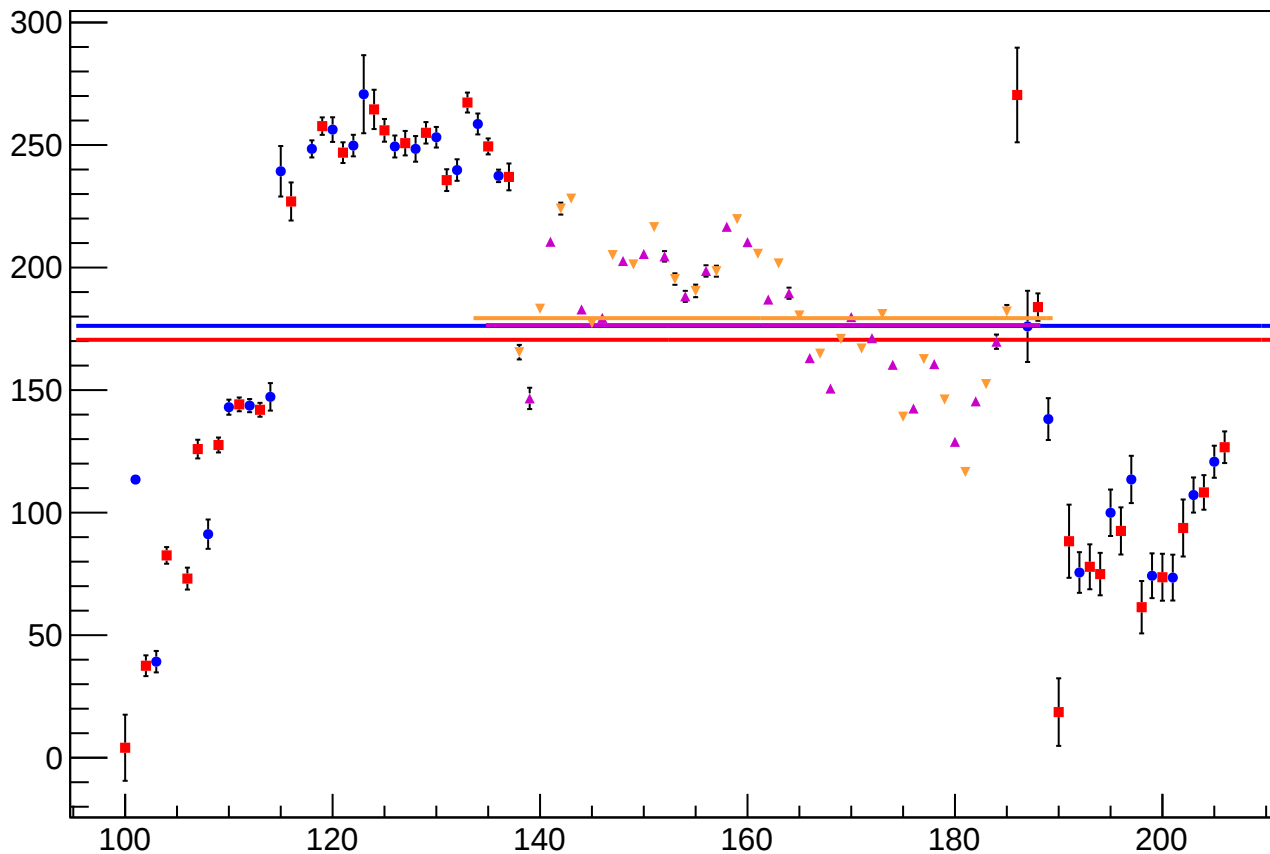
Right: -107.180 $\pm$ 0.733 χ^2/NDF : 5174.4/56

In: -86.924 $\pm$ 0.388 χ^2/NDF : 14967.3/48

Out: -90.530 $\pm$ 0.377 χ^2/NDF : 18256.1/55

All: -88.781 $\pm$ 0.271 χ^2/NDF : 33267.8/104

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 176.213 $\pm$ 0.876 χ^2 /NDF: 6063.9/25

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF: 5982.2/24

Right Out: 170.529 $\pm$ 0.870 χ^2 /NDF: 7247.7/30

Left In: 176.531 $\pm$ 0.371 χ^2 /NDF: 4426.0/22

Left: 177.980 $\pm$ 0.259 χ^2 /NDF: 10438.0/47

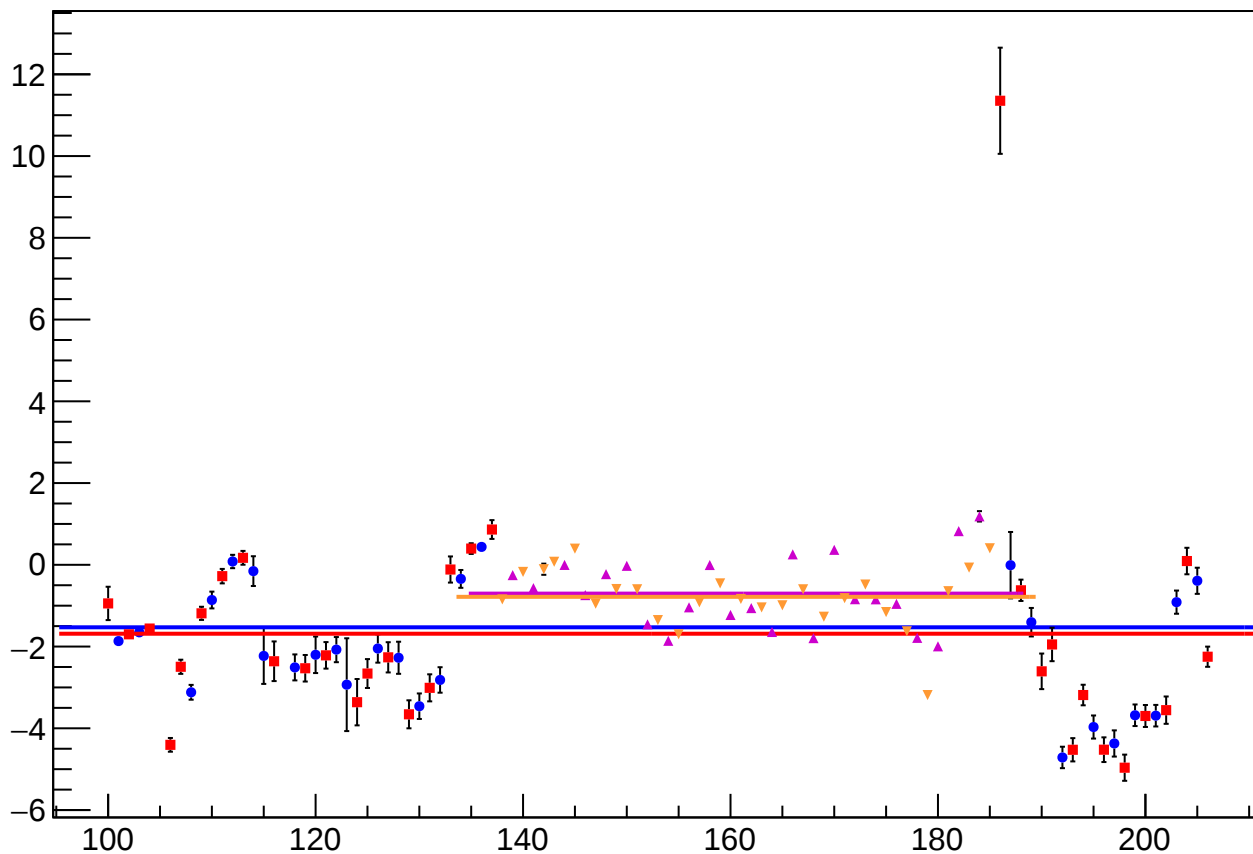
Right: 173.351 $\pm$ 0.618 χ^2 /NDF: 13332.7/56

In: 176.483 $\pm$ 0.342 χ^2 /NDF: 10489.9/48

Out: 178.058 $\pm$ 0.334 χ^2 /NDF: 13317.7/55

All: 177.288 $\pm$ 0.239 χ^2 /NDF: 23818.5/104

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.529 ± 0.044 χ^2/NDF : 1123.8/25

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.686 ± 0.041 χ^2/NDF : 1534.9/30

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

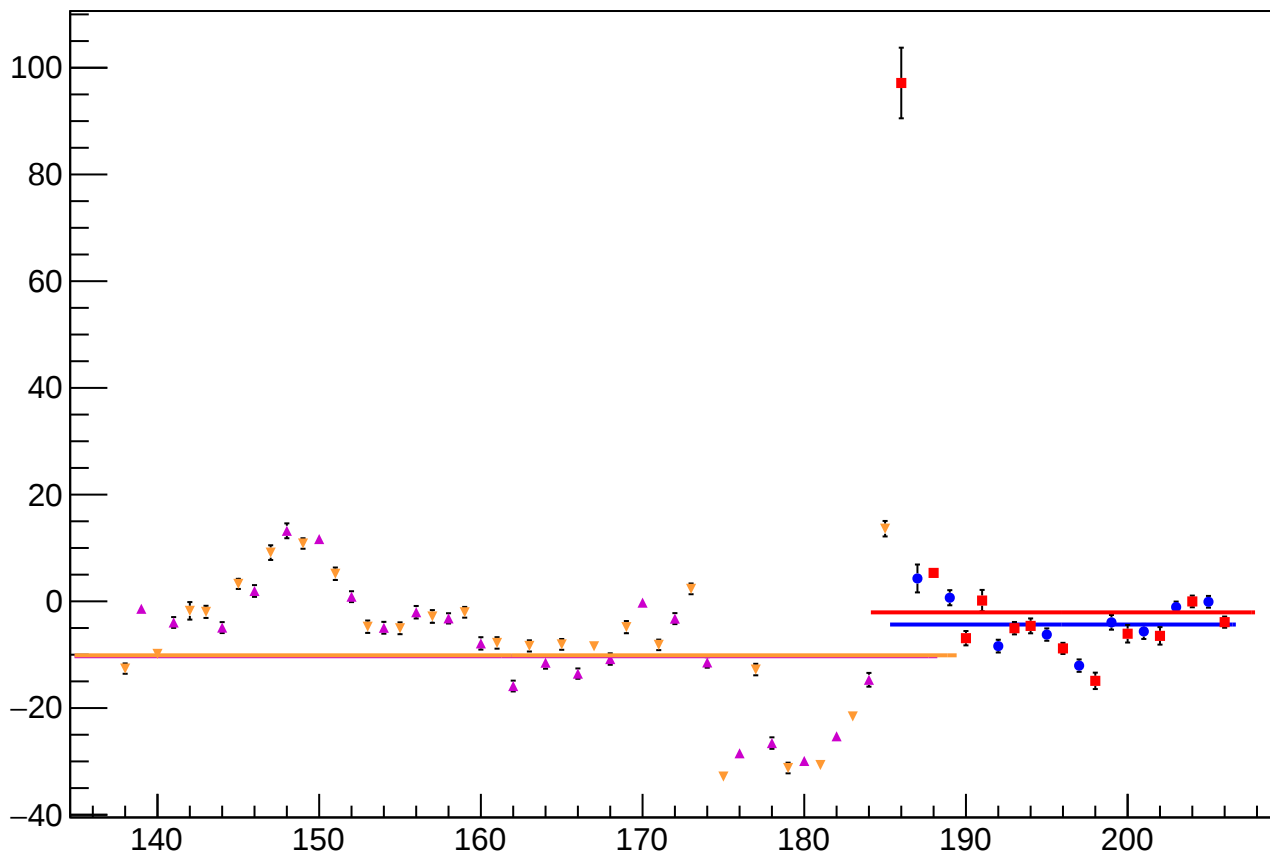
Right: -1.613 ± 0.030 χ^2/NDF : 2665.6/56

In: -0.813 ± 0.016 χ^2/NDF : 3842.9/48

Out: -0.911 ± 0.015 χ^2/NDF : 3725.8/55

All: -0.863 ± 0.011 χ^2/NDF : 7588.7/104

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.347 ± 0.421 $\chi^2/\text{NDF}: 107.6/8$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: -2.069 ± 0.346 $\chi^2/\text{NDF}: 513.6/11$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

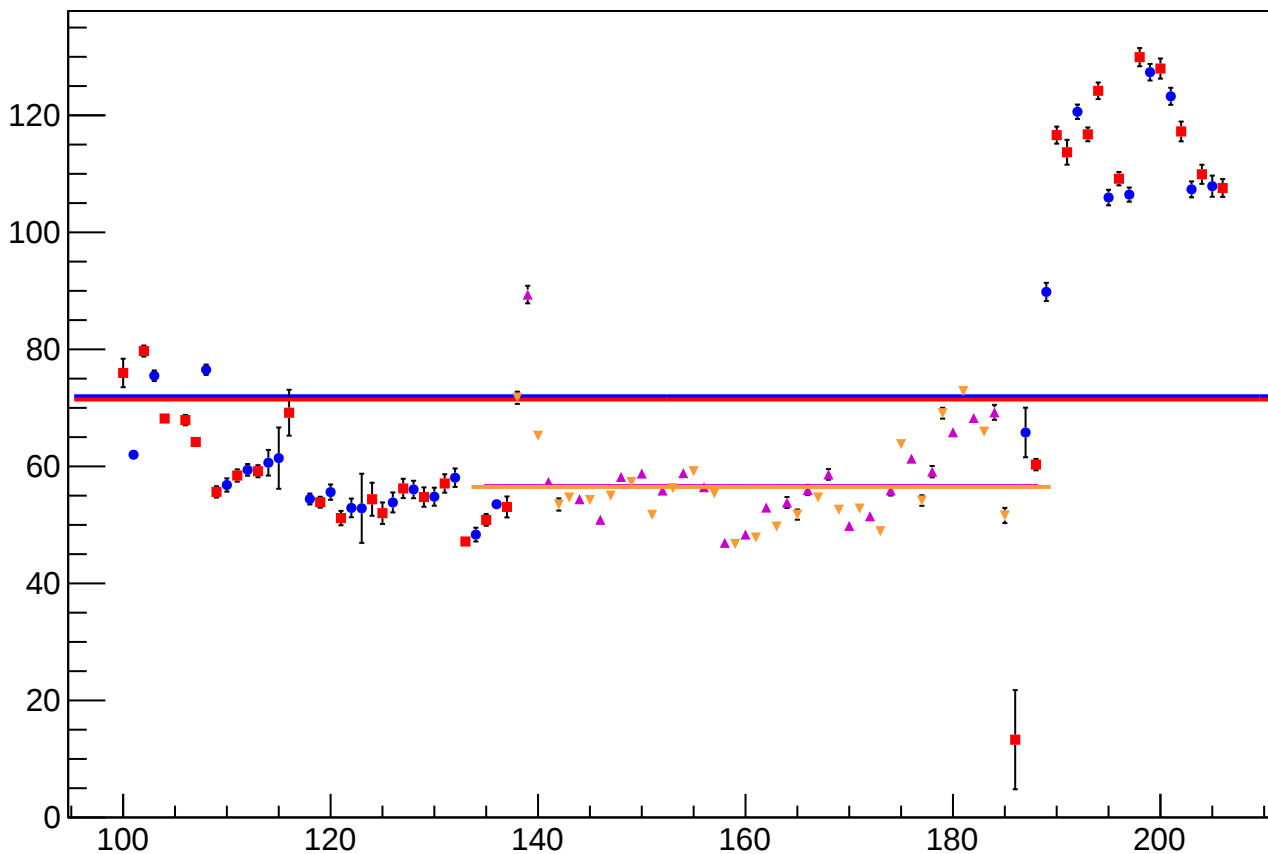
Right: -2.987 ± 0.267 $\chi^2/\text{NDF}: 638.7/20$

In: -9.148 ± 0.185 $\chi^2/\text{NDF}: 3719.5/31$

Out: -8.081 ± 0.174 $\chi^2/\text{NDF}: 5055.8/36$

All: -8.583 ± 0.127 $\chi^2/\text{NDF}: 8792.9/68$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 71.981+/-0.232 χ^2/NDF : 9784.7/25

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 71.432+/-0.214 χ^2/NDF : 13503.4/30

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

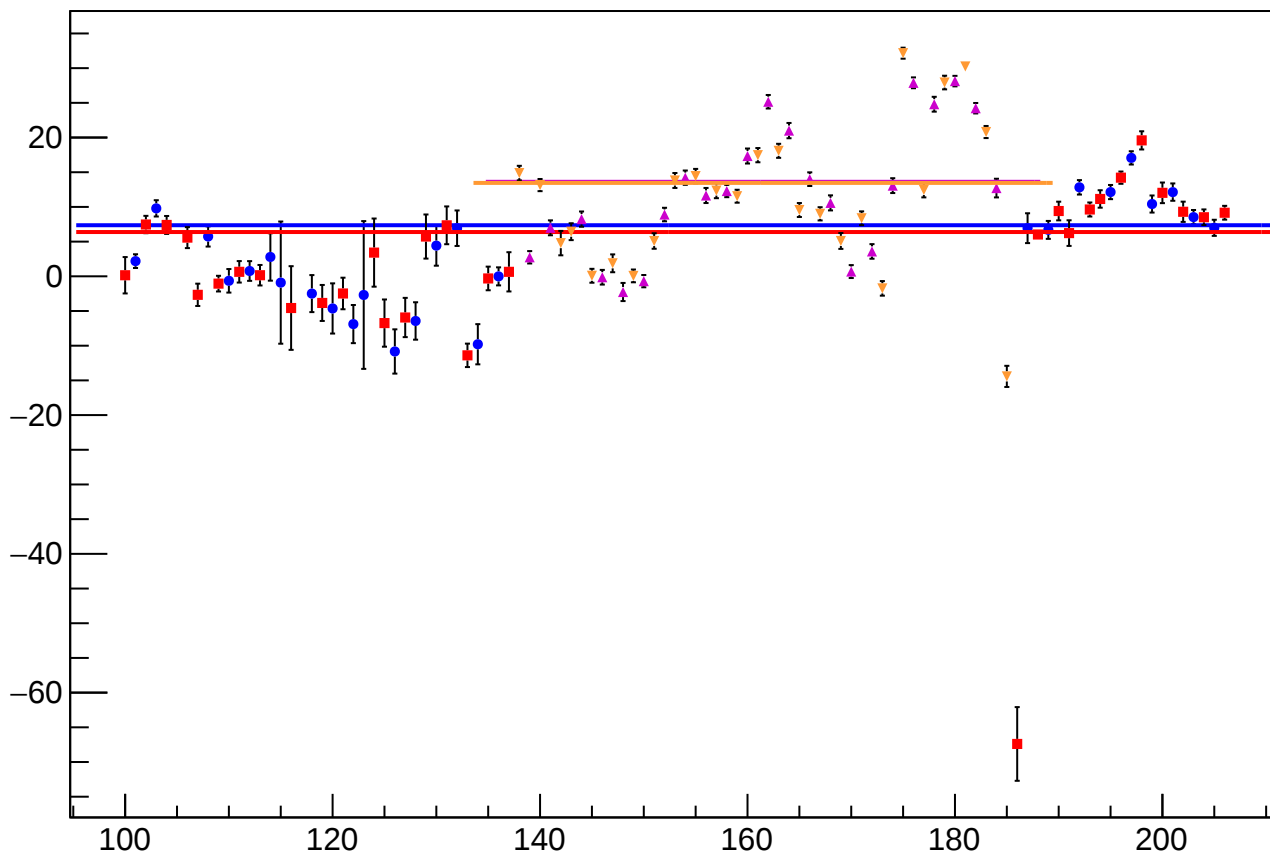
Right: 71.684+/-0.157 χ^2/NDF : 23291.1/56

In: 61.803+/-0.134 χ^2/NDF :14301.3/48

Out: 61.815+/-0.127 χ^2/NDF :18618.8/55

All: 61.809+/-0.093 χ^2/NDF : 32920.1/104

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.362 ± 0.295 χ^2/NDF : 433.5/25

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.381 ± 0.248 χ^2/NDF : 745.8/30

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

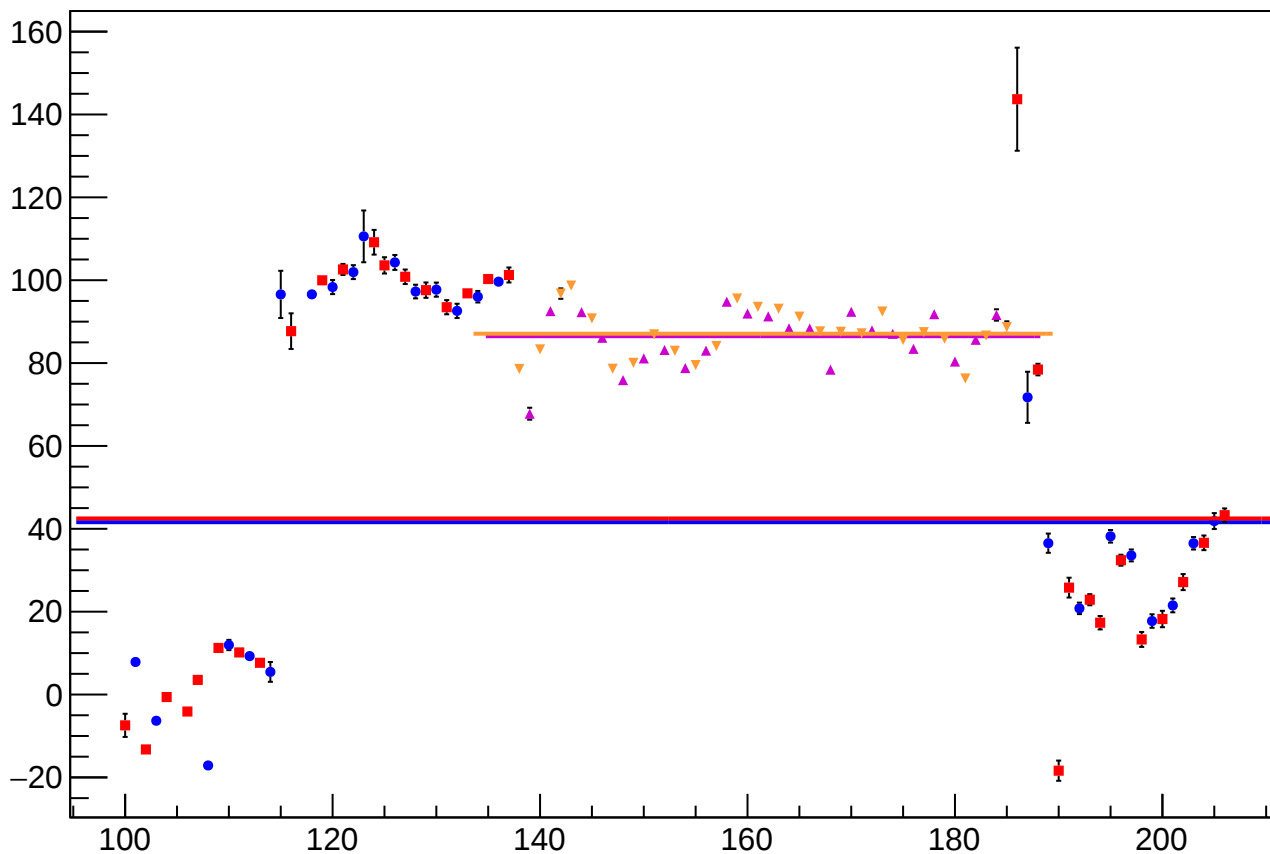
Right: 6.787 ± 0.190 χ^2/NDF : 1185.8/56

In: 11.586 ± 0.168 χ^2/NDF : 3053.4/48

Out: 10.640 ± 0.156 χ^2/NDF : 3974.3/55

All: 11.079 ± 0.114 χ^2/NDF : 7044.7/104

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.597 $\pm$ 0.269 χ^2 /NDF: 25470.5/25

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 42.495 $\pm$ 0.251 χ^2 /NDF: 30757.1/30

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

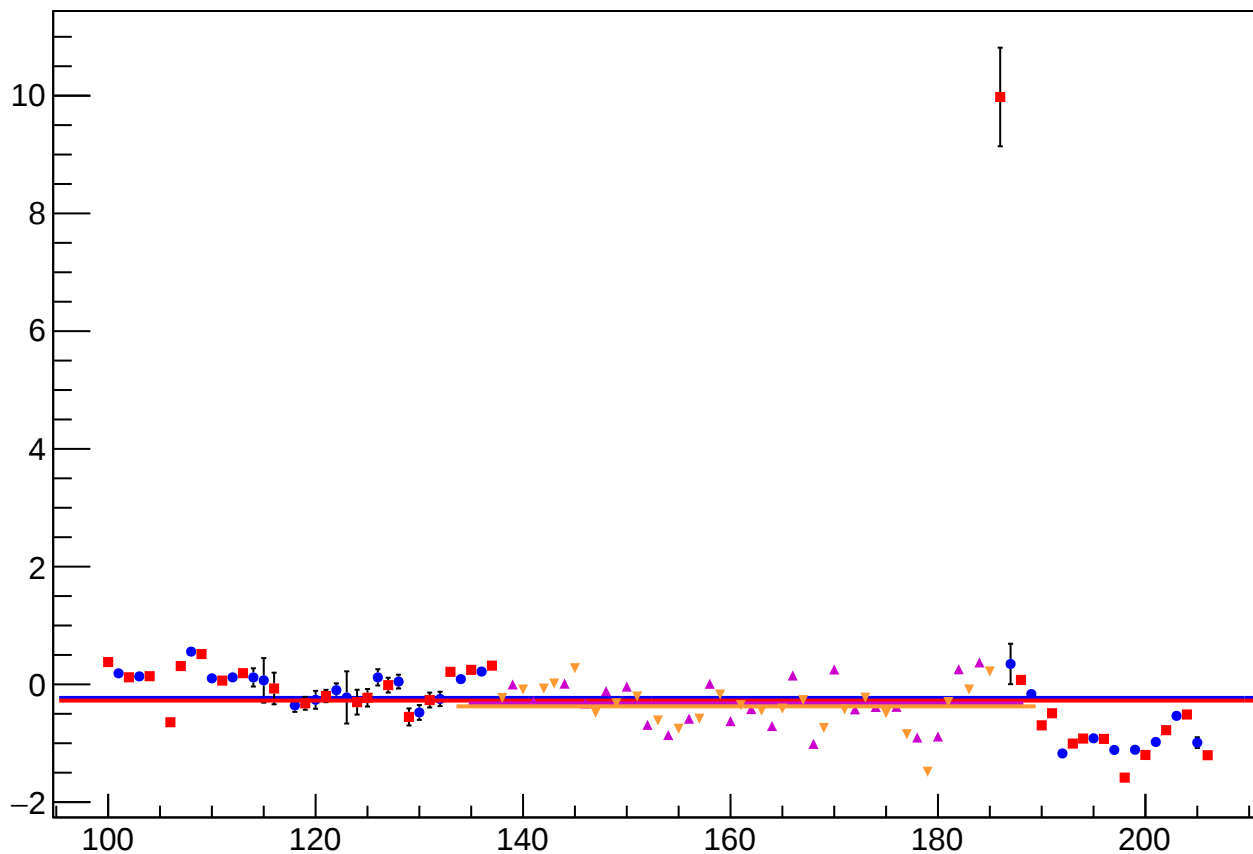
Right: 42.076 $\pm$ 0.184 χ^2 /NDF: 56233.6/56

In: 72.095 $\pm$ 0.152 χ^2 /NDF:45420.2/48

Out: 72.083 $\pm$ 0.146 χ^2 /NDF:52705.4/55

All: 72.089 $\pm$ 0.105 χ^2 /NDF: 98125.6/104

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.230 ± 0.011 $\chi^2/\text{NDF}: 2947.3/25$

Left Out: -0.373 ± 0.008 $\chi^2/\text{NDF}: 1668.6/24$

Right Out: -0.275 ± 0.010 $\chi^2/\text{NDF}: 3557.2/30$

Left In: -0.325 ± 0.008 $\chi^2/\text{NDF}: 2284.1/22$

Left: -0.349 ± 0.006 $\chi^2/\text{NDF}: 3970.2/47$

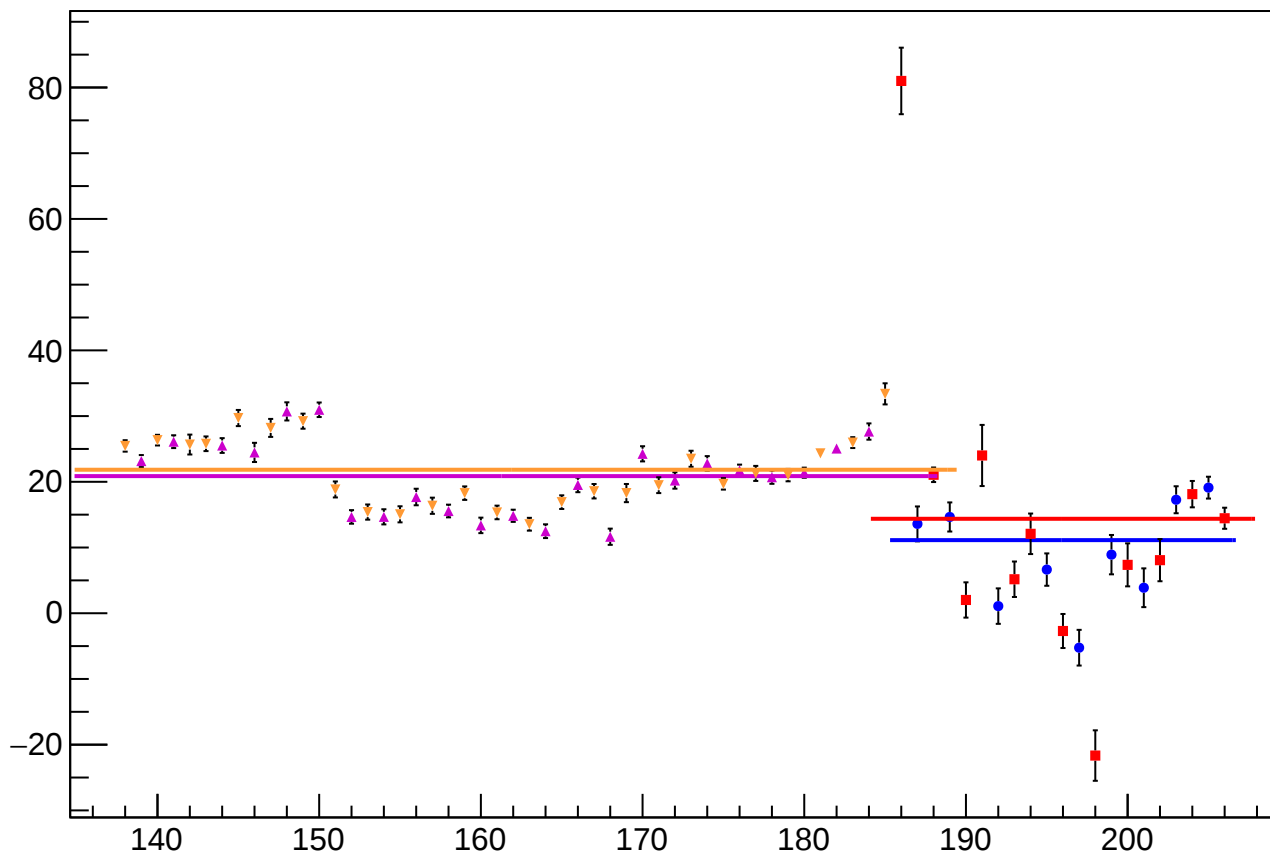
Right: -0.254 ± 0.008 $\chi^2/\text{NDF}: 6513.3/56$

In: -0.292 ± 0.007 $\chi^2/\text{NDF}: 5278.7/48$

Out: -0.335 ± 0.006 $\chi^2/\text{NDF}: 5282.9/55$

All: -0.314 ± 0.005 $\chi^2/\text{NDF}: 10584.2/104$

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.124 $\pm$ 0.788 χ^2 /NDF: 95.5/8

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF: 524.3/24

Right Out: 14.373 $\pm$ 0.655 χ^2 /NDF: 390.9/11

Left In: 20.866 $\pm$ 0.217 χ^2 /NDF: 576.9/22

Left: 21.366 $\pm$ 0.151 χ^2 /NDF: 1111.6/47

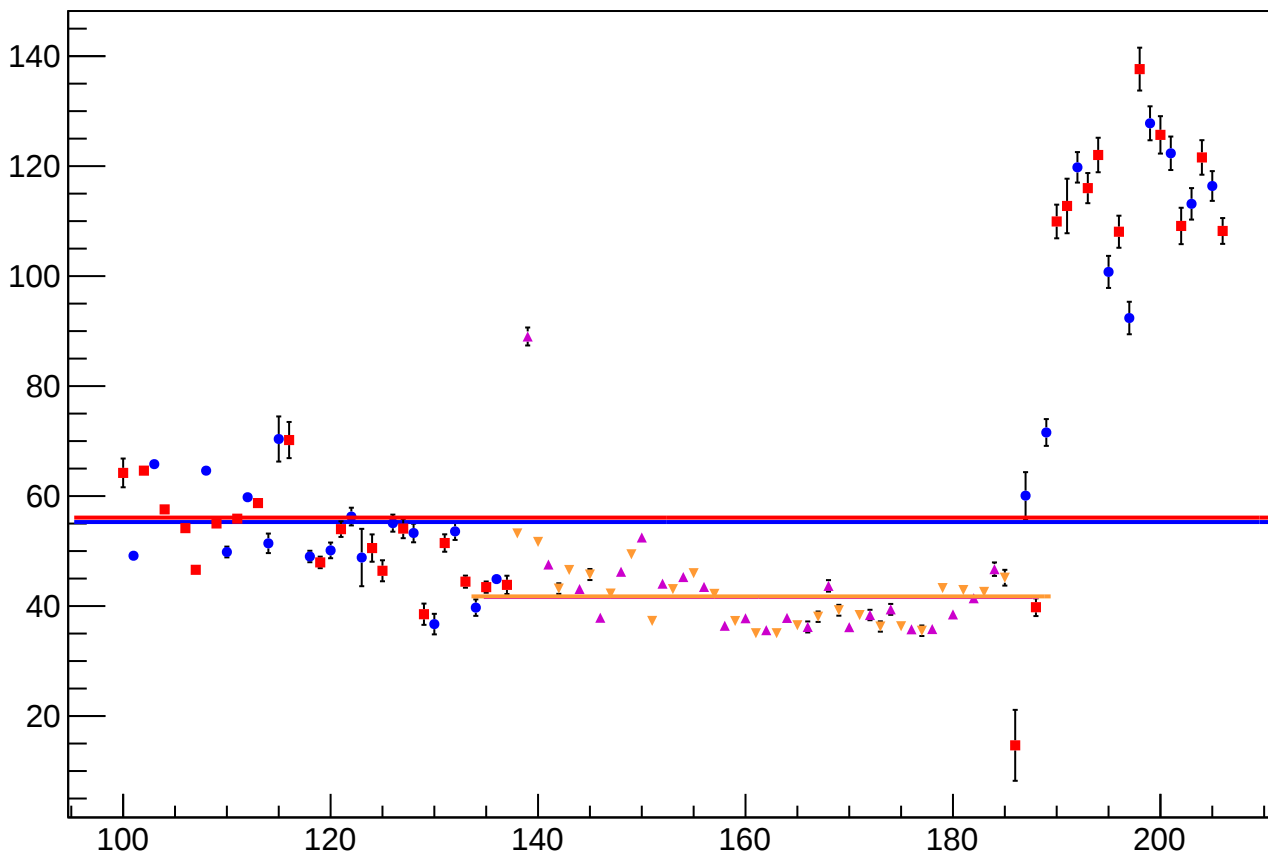
Right: 13.045 $\pm$ 0.504 χ^2 /NDF: 496.4/20

In: 20.182 $\pm$ 0.209 χ^2 /NDF: 814.3/31

Out: 21.143 $\pm$ 0.200 χ^2 /NDF: 1032.8/36

All: 20.684 $\pm$ 0.144 χ^2 /NDF: 1858.2/68

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 55.277 $\pm$ 0.206 χ^2 /NDF: 4258.6/25

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 56.087 $\pm$ 0.219 χ^2 /NDF: 4889.4/30

Left In: 41.643 $\pm$ 0.174 χ^2 /NDF:1611.0/22

Left: 41.703 $\pm$ 0.120 χ^2 /NDF: 2626.9/47

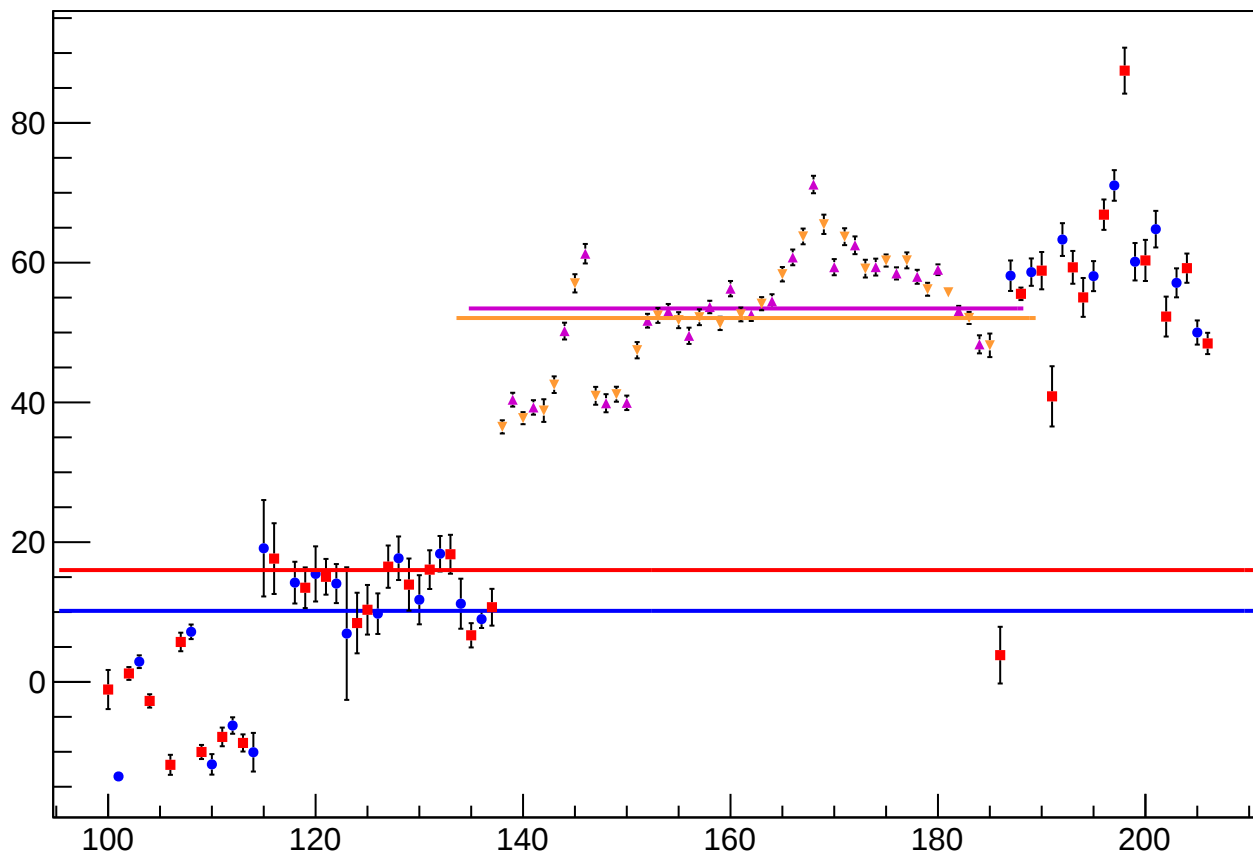
Right: 55.658 $\pm$ 0.150 χ^2 /NDF: 9155.3/56

In: 47.303 $\pm$ 0.133 χ^2 /NDF:8425.1/48

Out: 46.964 $\pm$ 0.132 χ^2 /NDF:8634.2/55

All: 47.133 $\pm$ 0.094 χ^2 /NDF: 17062.5/104

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 10.169 $\pm$ 0.325 χ^2 /NDF: 6724.6/25

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 16.006 $\pm$ 0.315 χ^2 /NDF: 7637.2/30

Left In: 53.447 $\pm$ 0.215 χ^2 /NDF:1169.0/22

Left: 52.744 $\pm$ 0.150 χ^2 /NDF: 2640.6/47

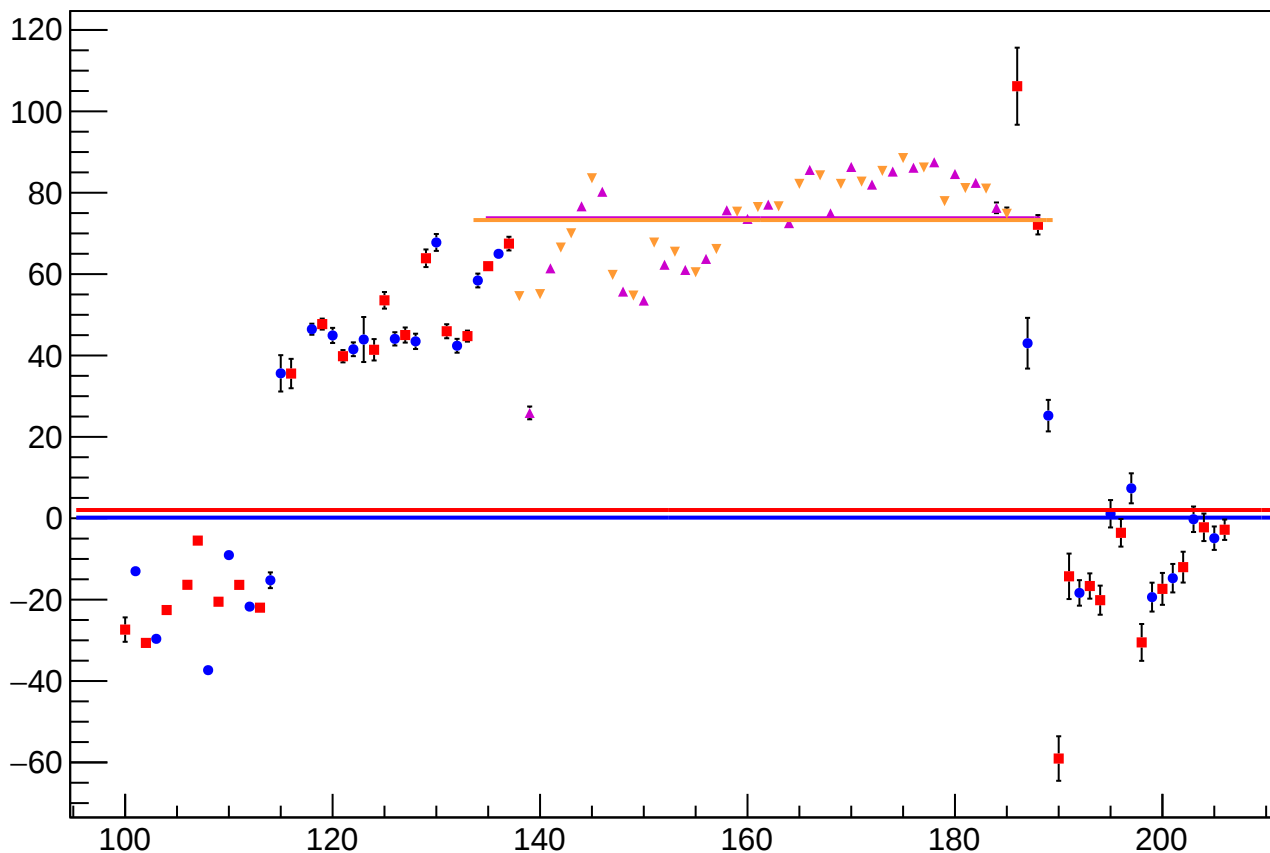
Right: 13.177 $\pm$ 0.226 χ^2 /NDF: 14527.7/56

In: 40.260 $\pm$ 0.180 χ^2 /NDF:20199.8/48

Out: 40.999 $\pm$ 0.175 χ^2 /NDF:18147.7/55

All: 40.639 $\pm$ 0.125 χ^2 /NDF: 38356.2/104

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.158 $\pm$ 0.242 χ^2 /NDF: 18399.7/25

Left Out: 73.284 $\pm$ 0.187 χ^2 /NDF:3144.2/24

Right Out: 2.027 $\pm$ 0.258 χ^2 /NDF: 16705.3/30

Left In: 73.730 $\pm$ 0.194 χ^2 /NDF:3775.8/22

Left: 73.498 $\pm$ 0.135 χ^2 /NDF: 6922.7/47

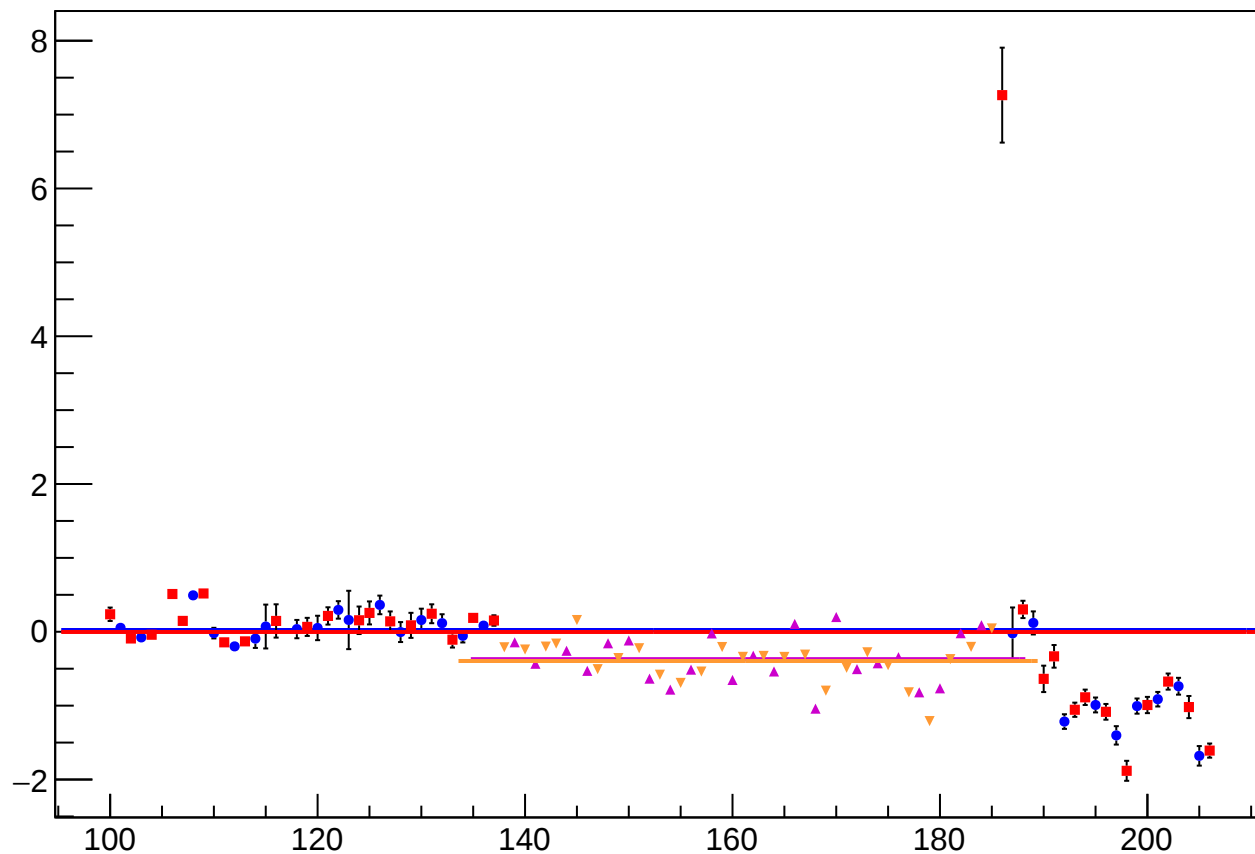
Right: 1.033 $\pm$ 0.177 χ^2 /NDF: 35132.9/56

In: 44.917 $\pm$ 0.152 χ^2 /NDF:78306.4/48

Out: 48.791 $\pm$ 0.151 χ^2 /NDF:69841.7/55

All: 46.857 $\pm$ 0.107 χ^2 /NDF: 148475.1/104

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.024 ± 0.011 $\chi^2/\text{NDF}: 1244.9/25$

Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$

Right Out: -0.003 ± 0.011 $\chi^2/\text{NDF}: 1544.2/30$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

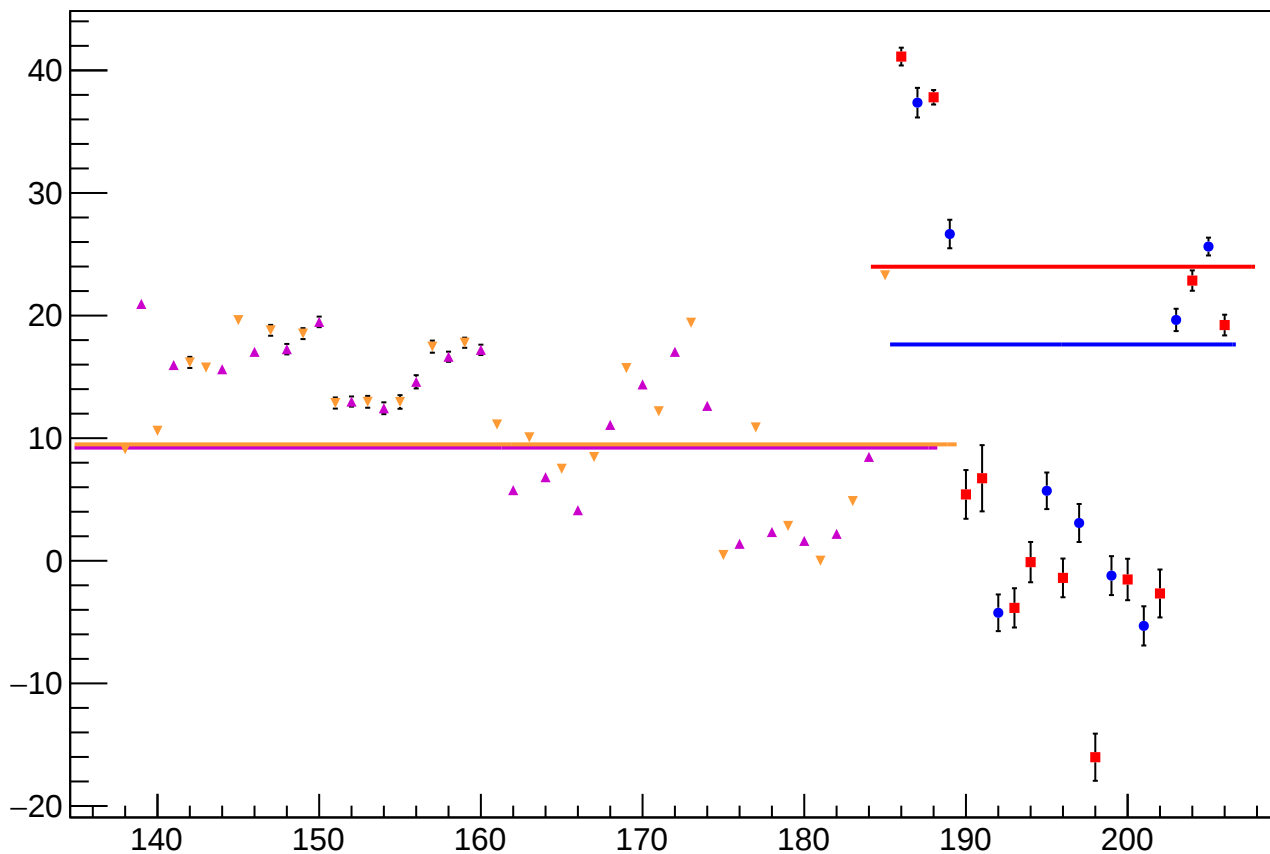
Right: 0.010 ± 0.007 $\chi^2/\text{NDF}: 2792.2/56$

In: -0.212 ± 0.007 $\chi^2/\text{NDF}: 3382.3/48$

Out: -0.239 ± 0.007 $\chi^2/\text{NDF}: 3335.1/55$

All: -0.226 ± 0.005 $\chi^2/\text{NDF}: 6725.5/104$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 17.645 ± 0.389 χ^2/NDF : 1165.3/8

Left Out: 9.495 ± 0.061 χ^2/NDF : 12609.1/24

Right Out: 23.986 ± 0.316 χ^2/NDF : 2886.6/11

Left In: 9.231 ± 0.063 χ^2/NDF : 10736.2/22

Left: 9.367 ± 0.044 χ^2/NDF : 23354.3/47

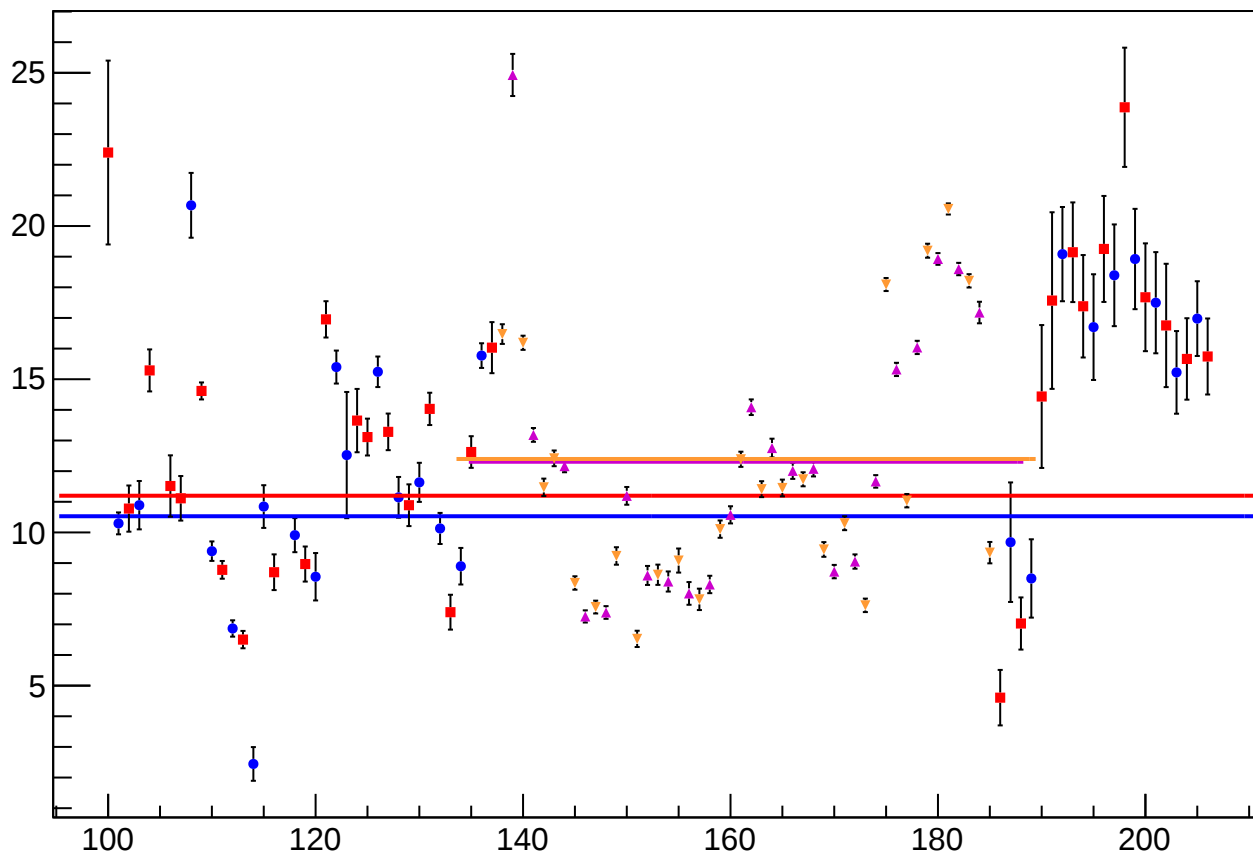
Right: 21.466 ± 0.245 χ^2/NDF : 4212.3/20

In: 9.447 ± 0.062 χ^2/NDF : 12358.0/31

Out: 10.020 ± 0.060 χ^2/NDF : 17526.7/36

All: 9.743 ± 0.043 χ^2/NDF : 29928.7/68

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.528 $\pm$ 0.116 χ^2 /NDF: 1024.7/25

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.198 $\pm$ 0.112 χ^2 /NDF: 1048.8/30

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

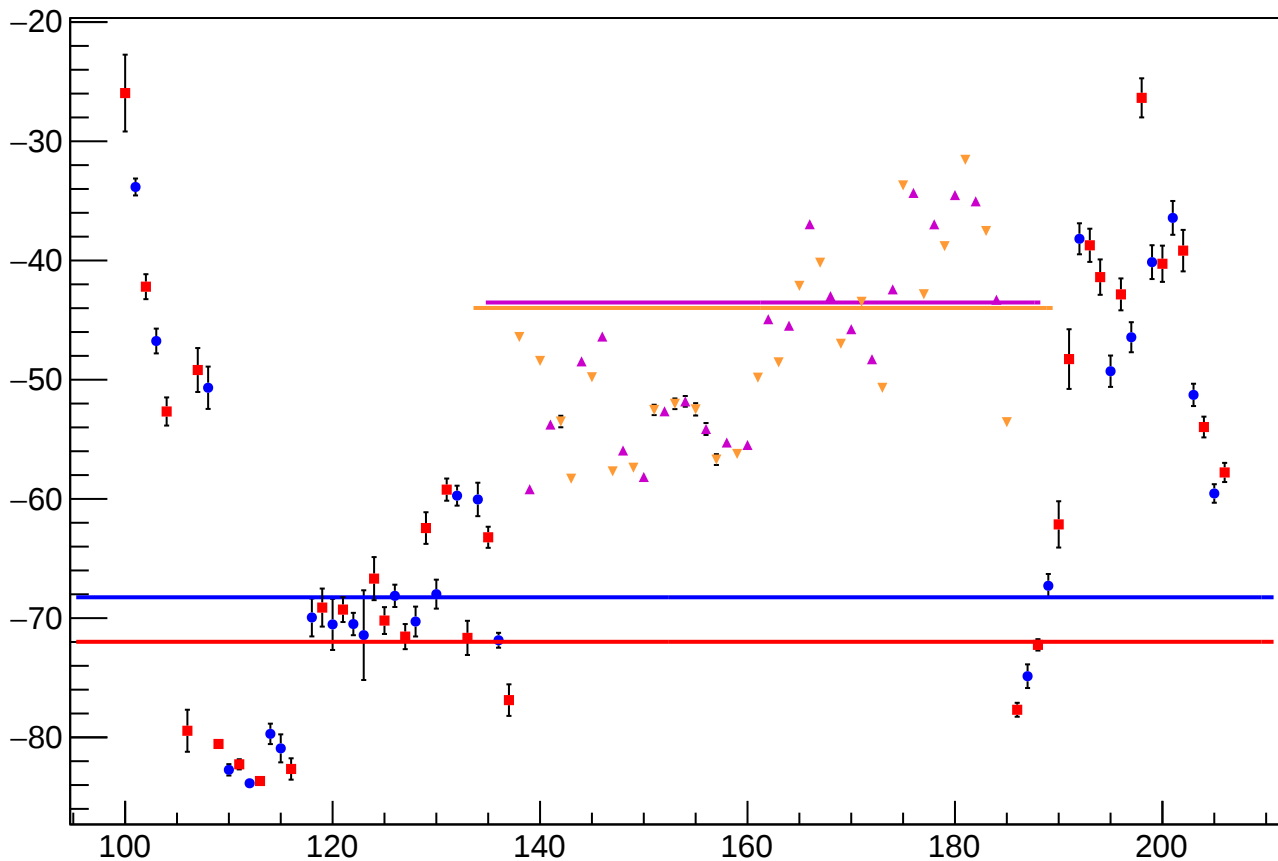
Right: 10.876 $\pm$ 0.081 χ^2 /NDF: 2090.8/56

In: 12.018 $\pm$ 0.047 χ^2 /NDF: 6822.2/48

Out: 12.200 $\pm$ 0.045 χ^2 /NDF: 8687.4/55

All: 12.112 $\pm$ 0.033 χ^2 /NDF: 15517.3/104

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -68.251 $\pm$ 0.174 χ^2 /NDF: 8396.6/25

Left Out: -43.982 $\pm$ 0.062 χ^2 /NDF:17736.8/24

Right Out: -71.985 $\pm$ 0.151 χ^2 /NDF: 7942.3/30

Left In: -43.523 $\pm$ 0.063 χ^2 /NDF:15267.1/22

Left: -43.757 $\pm$ 0.044 χ^2 /NDF: 33030.8/47

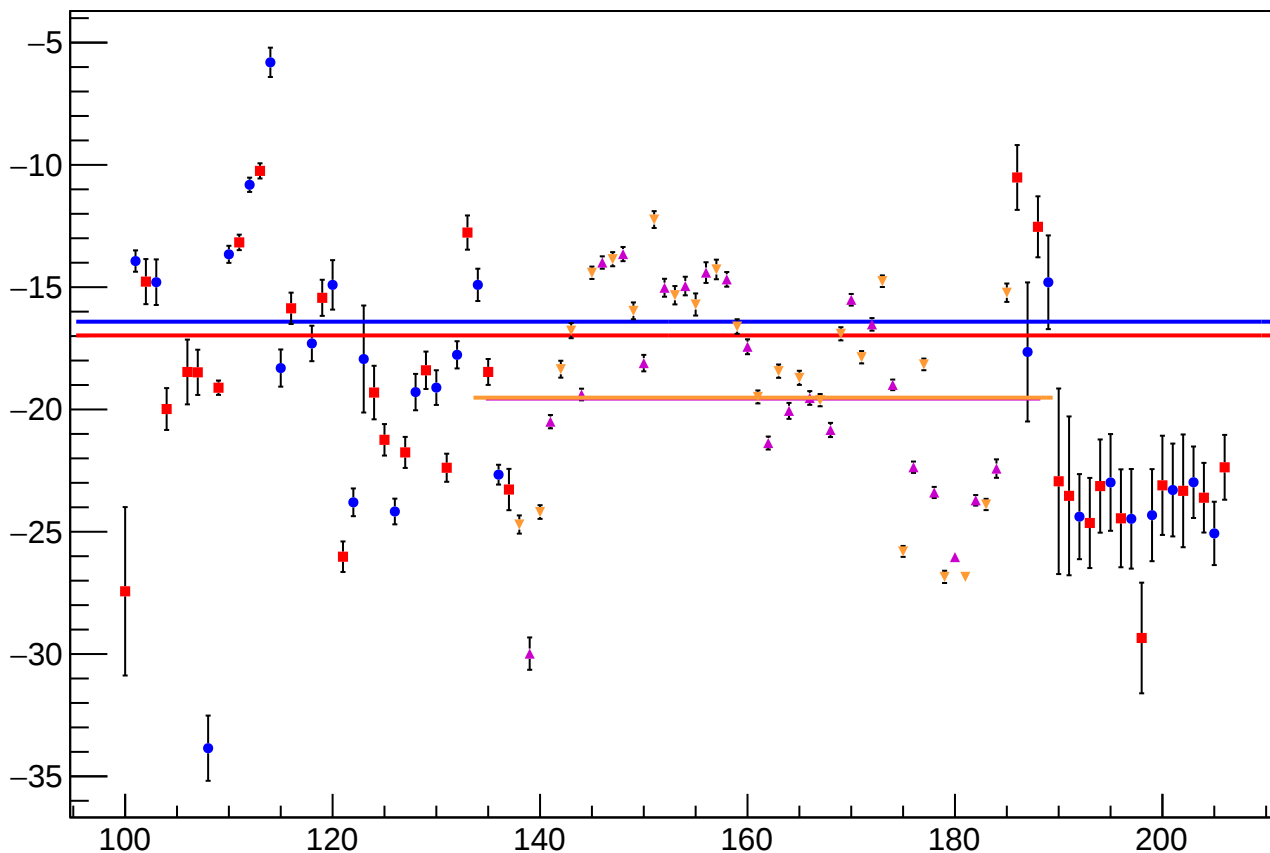
Right: -70.378 $\pm$ 0.114 χ^2 /NDF: 16601.2/56

In: -46.414 $\pm$ 0.060 χ^2 /NDF:41492.5/48

Out: -48.005 $\pm$ 0.057 χ^2 /NDF:55048.5/55

All: -47.239 $\pm$ 0.041 χ^2 /NDF: 96911.8/104

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected

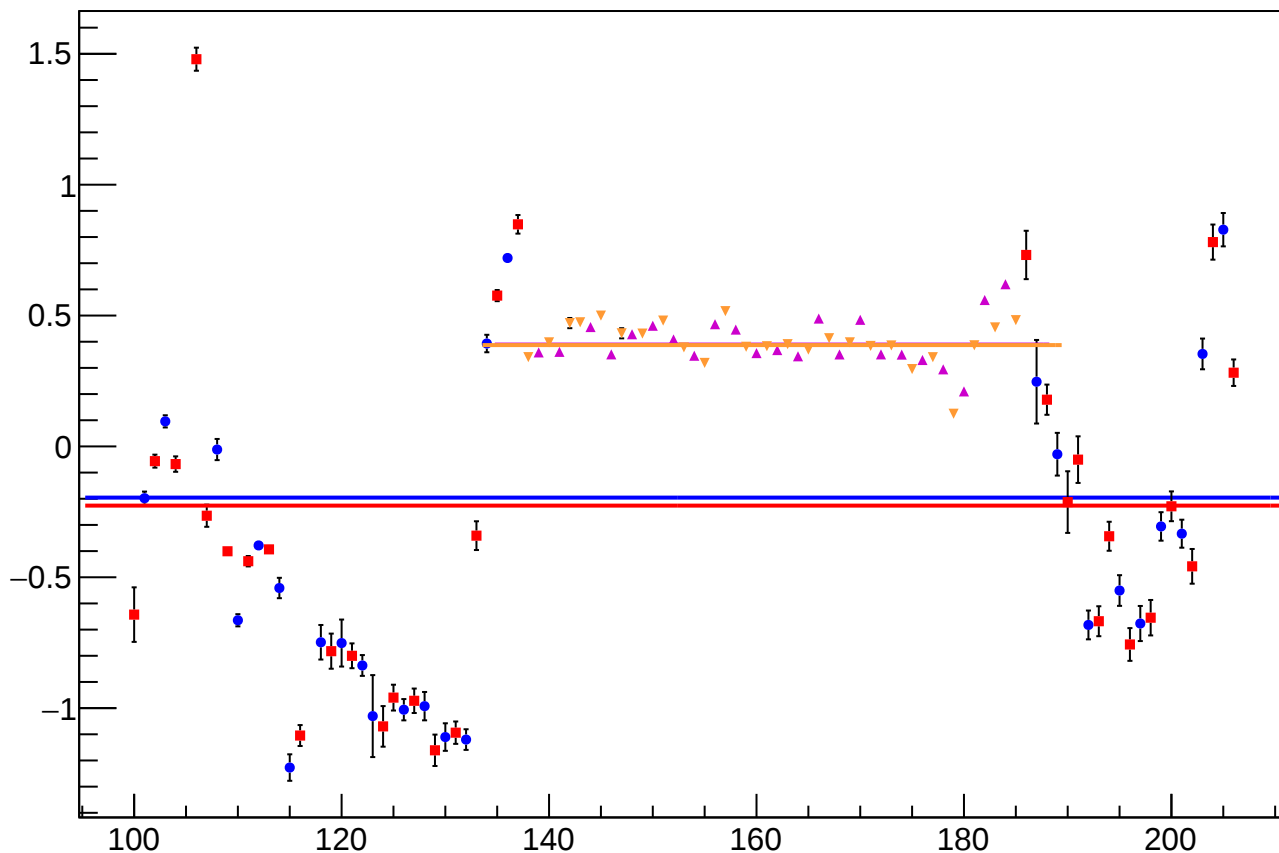


Right In: -16.411 ± 0.130 χ^2/NDF : 1770.9/25
 Left Out: -19.517 ± 0.056 χ^2/NDF : 6518.3/24
 Right Out: -16.973 ± 0.124 χ^2/NDF : 1383.1/30
 Left In: -19.555 ± 0.057 χ^2/NDF : 4311.2/22

Left: -19.536 ± 0.040 χ^2/NDF : 10829.6/47
 Right: -16.704 ± 0.090 χ^2/NDF : 3163.8/56
 In: -19.040 ± 0.052 χ^2/NDF : 6574.1/48
 Out: -19.092 ± 0.051 χ^2/NDF : 8249.6/55

All: -19.067 ± 0.037 χ^2/NDF : 14824.2/104

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.196 ± 0.007 χ^2/NDF : 6850.9/25

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.226 ± 0.007 χ^2/NDF : 6853.9/30

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

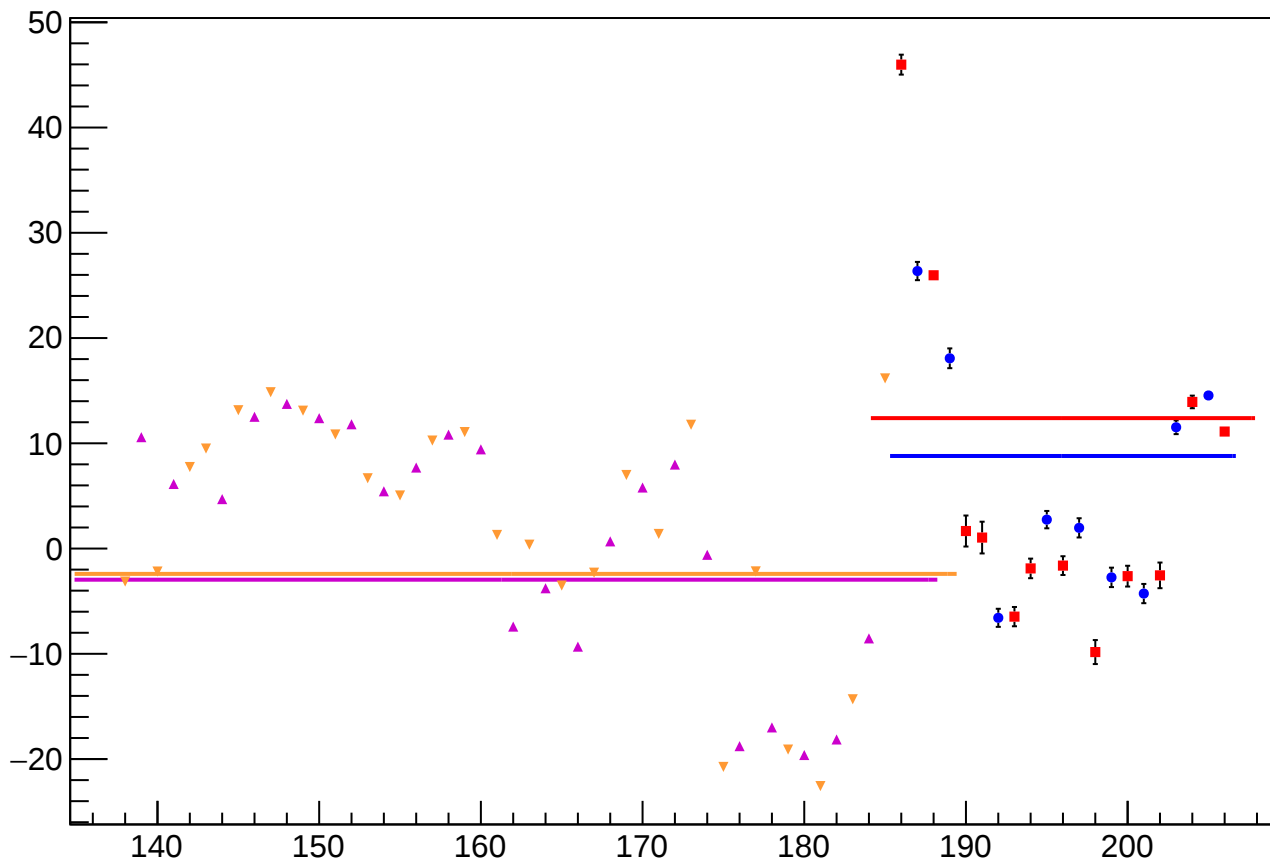
Right: -0.212 ± 0.005 χ^2/NDF : 13714.6/56

In: 0.319 ± 0.002 χ^2/NDF : 14059.3/48

Out: 0.309 ± 0.002 χ^2/NDF : 15152.1/55

All: 0.314 ± 0.002 χ^2/NDF : 29220.1/104

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.795 ± 0.251 $\chi^2/\text{NDF}: 1469.7/8$

Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$

Right Out: 12.392 ± 0.215 $\chi^2/\text{NDF}: 4056.1/11$

Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$

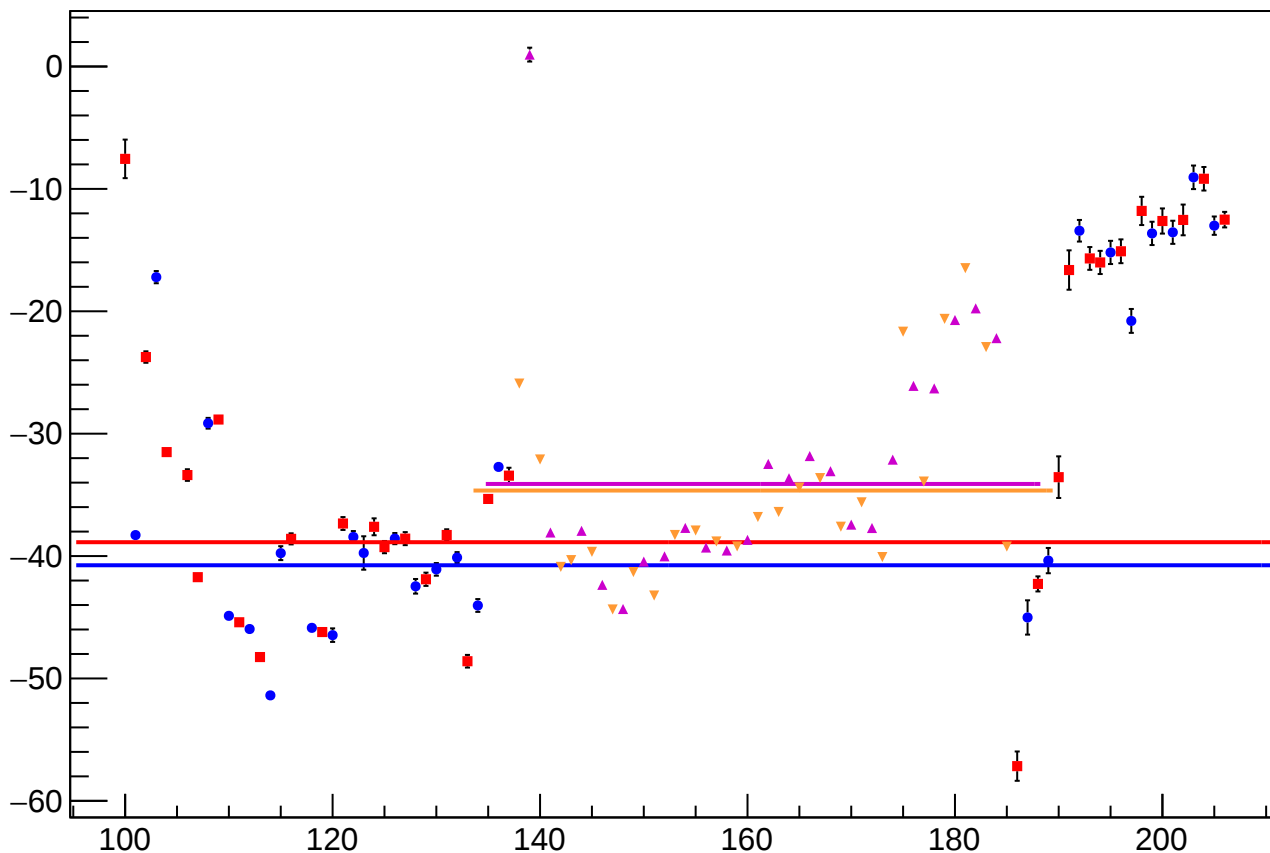
Right: 10.871 ± 0.163 $\chi^2/\text{NDF}: 5644.4/20$

In: -2.423 ± 0.054 $\chi^2/\text{NDF}: 49485.3/31$

Out: -1.565 ± 0.051 $\chi^2/\text{NDF}: 64900.5/36$

All: -1.975 ± 0.037 $\chi^2/\text{NDF}: 114520.0/68$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -40.751 ± 0.076 $\chi^2/\text{NDF}: 13075.5/25$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -38.867 ± 0.070 $\chi^2/\text{NDF}: 18171.4/30$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

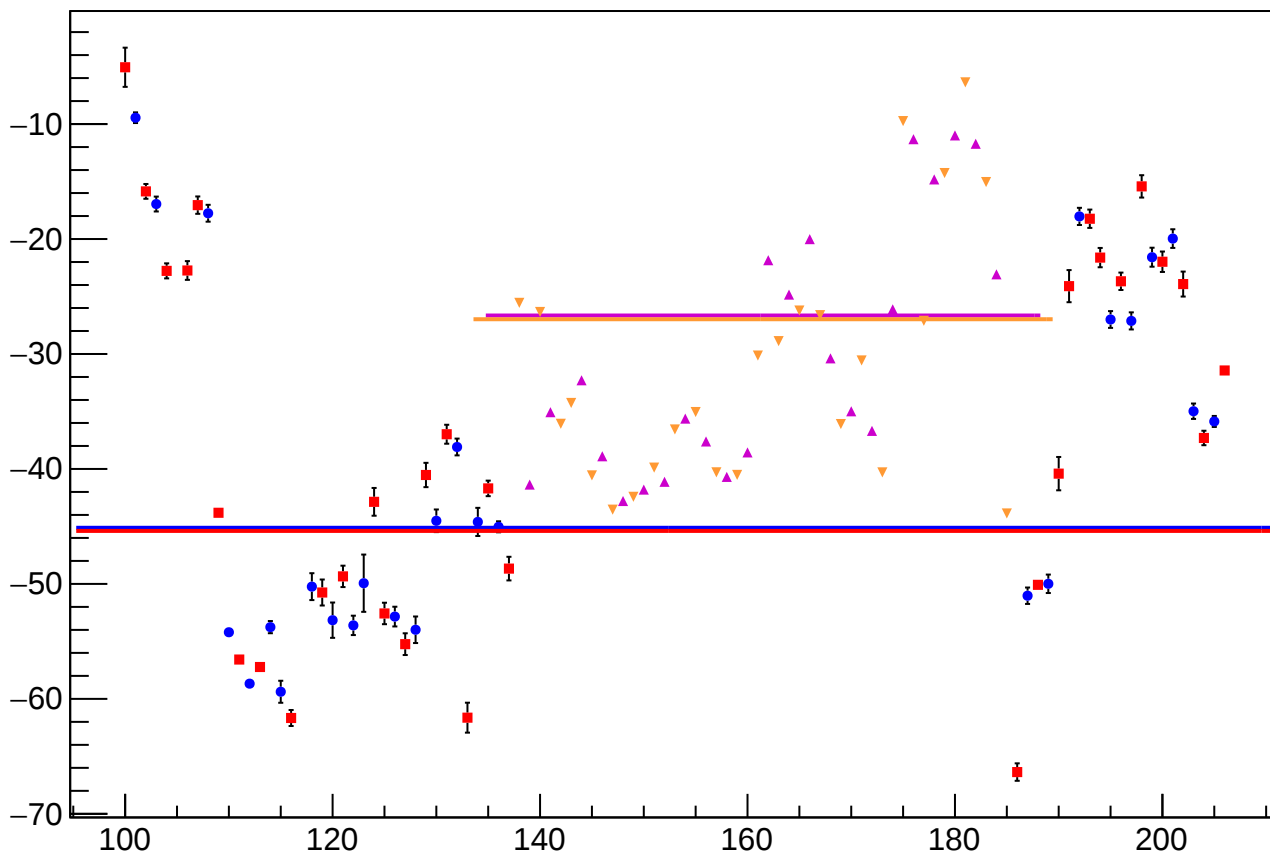
Right: -39.738 ± 0.052 $\chi^2/\text{NDF}: 31578.4/56$

In: -35.777 ± 0.038 $\chi^2/\text{NDF}: 47865.2/48$

Out: -35.746 ± 0.036 $\chi^2/\text{NDF}: 55506.3/55$

All: -35.761 ± 0.026 $\chi^2/\text{NDF}: 103371.9/104$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -45.118 ± 0.110 χ^2/NDF : 20497.4/25

Left Out: -26.978 ± 0.053 χ^2/NDF : 49361.1/24

Right Out: -45.390 ± 0.094 χ^2/NDF : 19693.5/30

Left In: -26.654 ± 0.055 χ^2/NDF : 42106.8/22

Left: -26.821 ± 0.038 χ^2/NDF : 91485.8/47

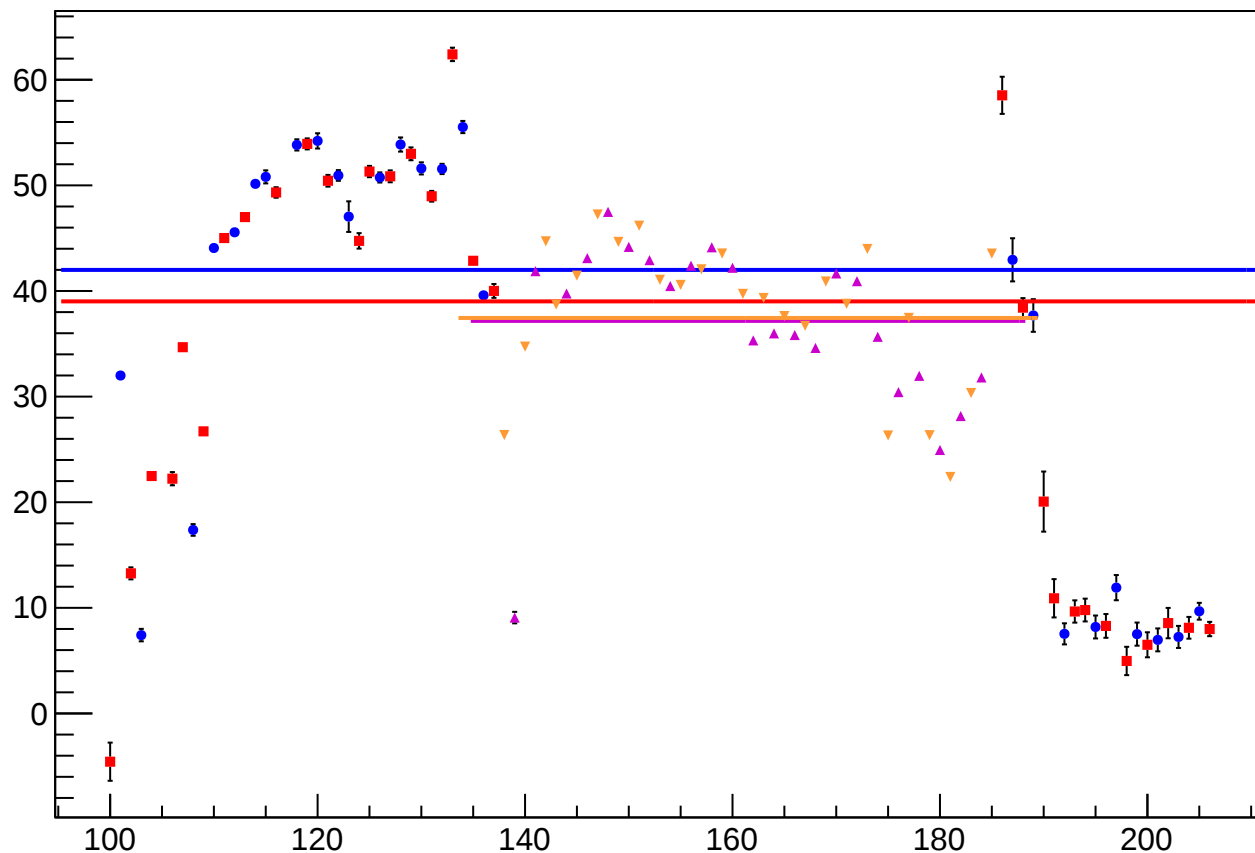
Right: -45.276 ± 0.071 χ^2/NDF : 40194.4/56

In: -30.344 ± 0.049 χ^2/NDF : 85180.1/48

Out: -31.477 ± 0.046 χ^2/NDF : 98339.5/55

All: -30.945 ± 0.034 χ^2/NDF : 183801.9/104

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.996 $\pm$ 0.085 χ^2 /NDF: 18542.9/25

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF: 21570.6/24

Right Out: 39.016 $\pm$ 0.078 χ^2 /NDF: 25431.7/30

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

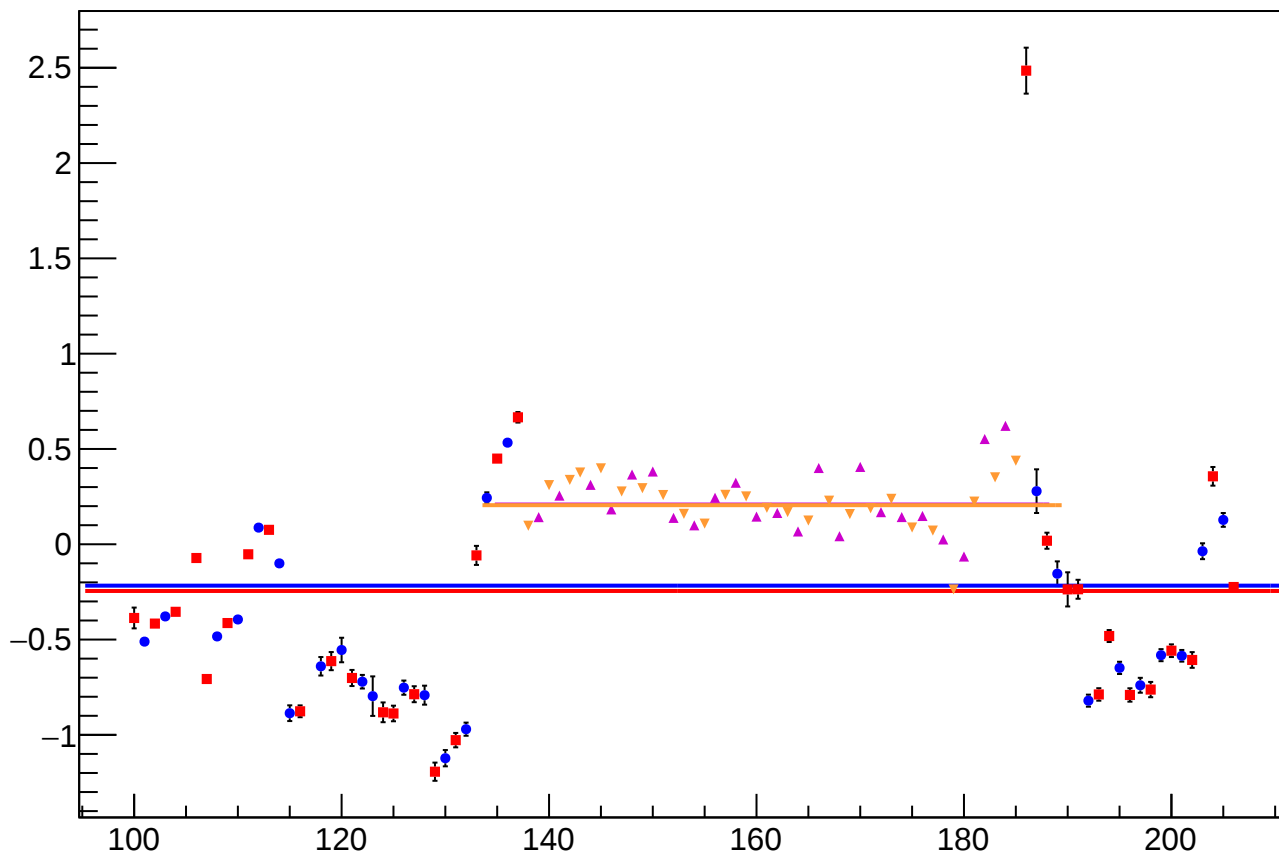
Right: 40.382 $\pm$ 0.057 χ^2 /NDF: 44645.2/56

In: 38.390 $\pm$ 0.043 χ^2 /NDF: 38206.5/48

Out: 37.867 $\pm$ 0.040 χ^2 /NDF: 47299.0/55

All: 38.114 $\pm$ 0.029 χ^2 /NDF: 85584.8/104

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.217 ± 0.005 χ^2/NDF : 8552.9/25

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.245 ± 0.004 χ^2/NDF : 9061.0/30

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

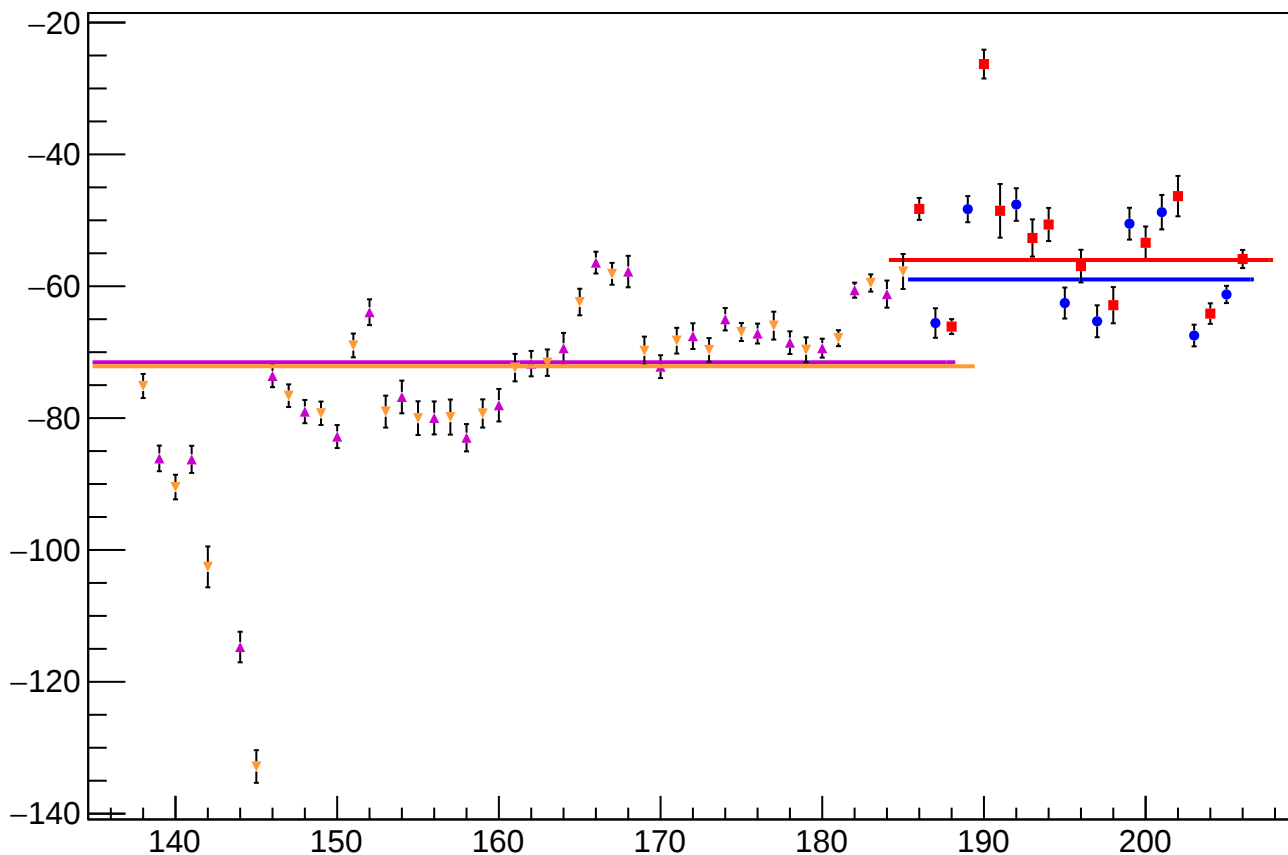
Right: -0.233 ± 0.003 χ^2/NDF : 17635.2/56

In: 0.124 ± 0.002 χ^2/NDF : 20752.7/48

Out: 0.103 ± 0.002 χ^2/NDF : 22589.9/55

All: 0.113 ± 0.001 χ^2/NDF : 43400.3/104

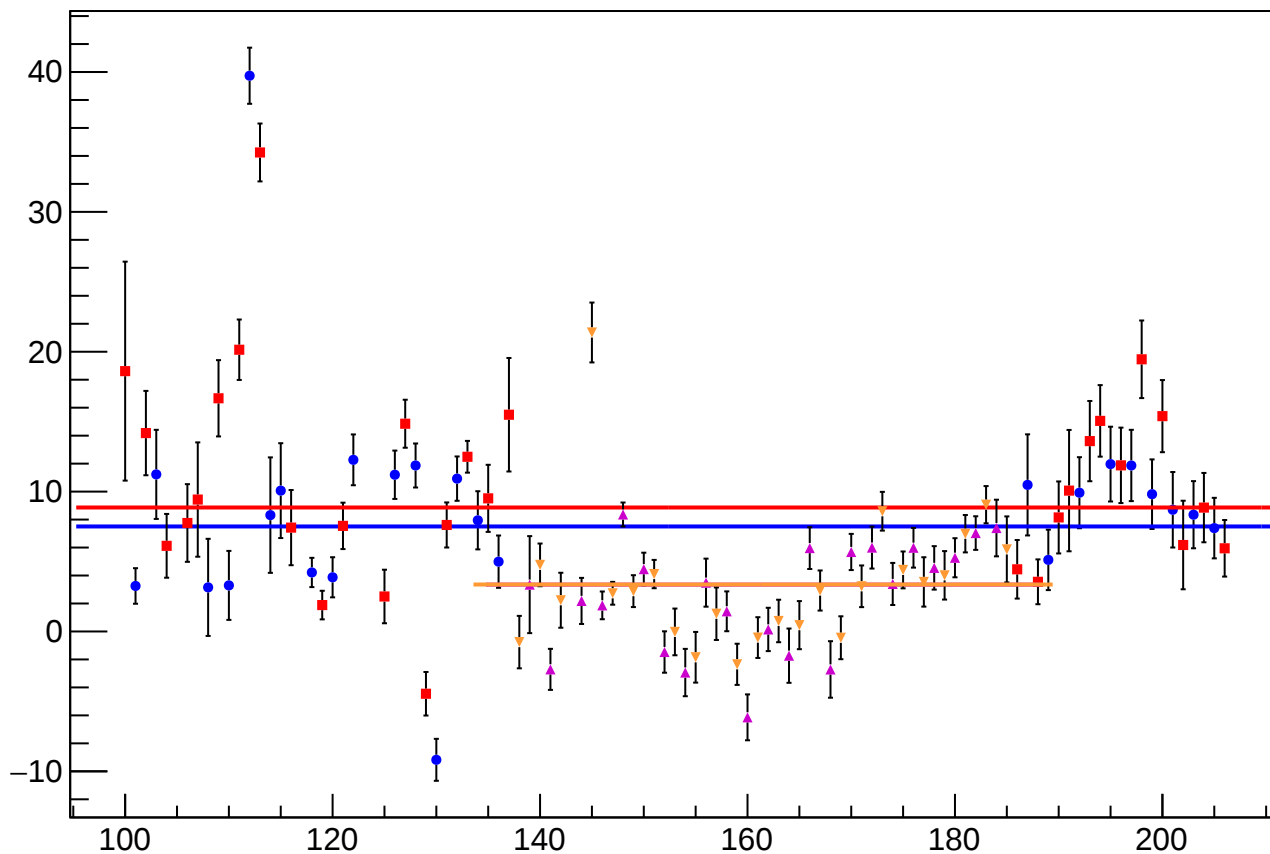
reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -58.969 ± 0.668 $\chi^2/\text{NDF}: 125.2/8$
 Left Out: -72.138 ± 0.383 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -56.014 ± 0.559 $\chi^2/\text{NDF}: 339.8/11$
 Left In: -71.534 ± 0.382 $\chi^2/\text{NDF}: 851.4/22$

Left: -71.835 ± 0.270 $\chi^2/\text{NDF}: 1974.0/46$
 Right: -57.233 ± 0.429 $\chi^2/\text{NDF}: 476.5/20$
 In: -68.439 ± 0.331 $\chi^2/\text{NDF}: 1243.6/31$
 Out: -66.994 ± 0.316 $\chi^2/\text{NDF}: 2027.0/35$
 All: -67.682 ± 0.229 $\chi^2/\text{NDF}: 3280.5/67$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.508 ± 0.390 $\chi^2/\text{NDF}: 450.9/24$

Left Out: 3.357 ± 0.295 $\chi^2/\text{NDF}: 167.7/23$

Right Out: 8.864 ± 0.378 $\chi^2/\text{NDF}: 398.9/29$

Left In: 3.349 ± 0.298 $\chi^2/\text{NDF}: 163.5/22$

Left: 3.353 ± 0.210 $\chi^2/\text{NDF}: 331.2/46$

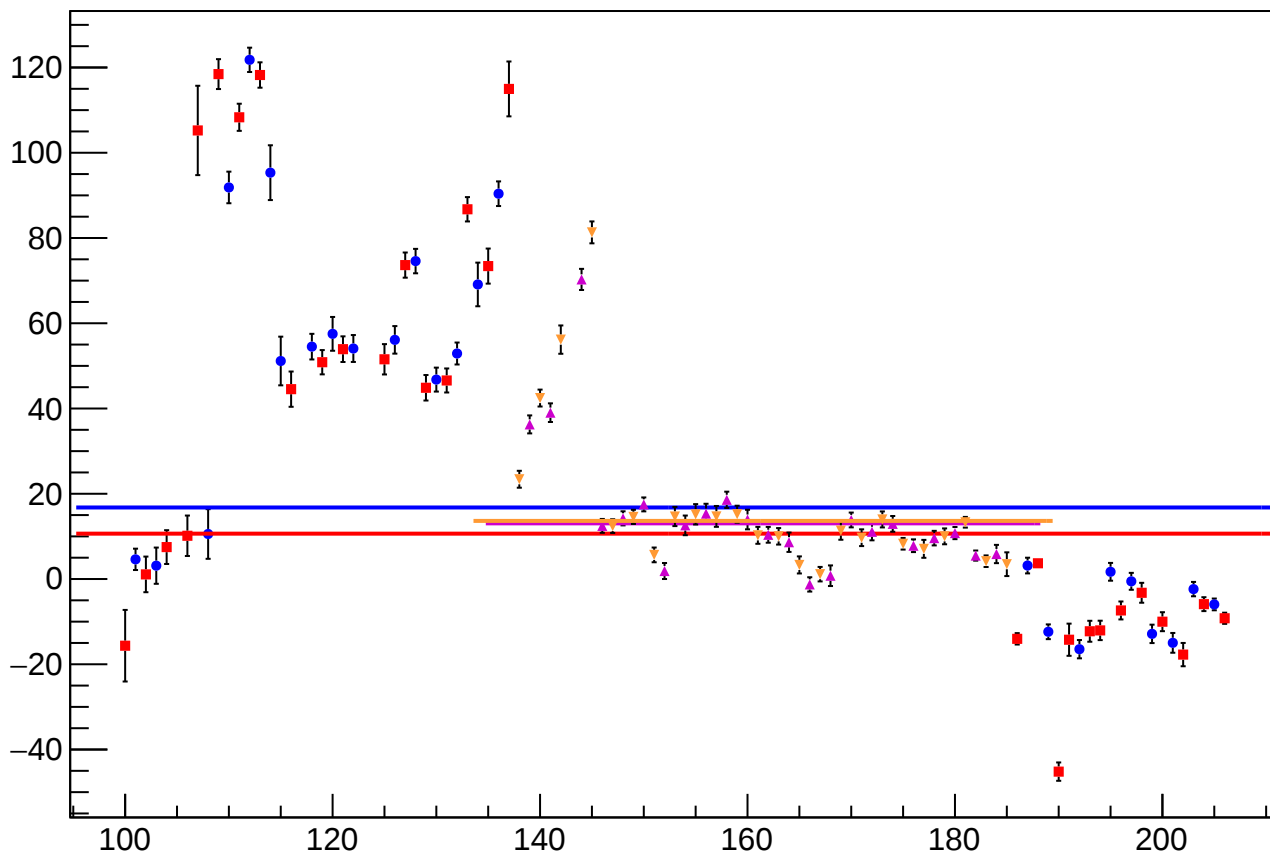
Right: 8.206 ± 0.271 $\chi^2/\text{NDF}: 856.1/54$

In: 4.885 ± 0.237 $\chi^2/\text{NDF}: 686.3/47$

Out: 5.438 ± 0.232 $\chi^2/\text{NDF}: 698.5/53$

All: 5.167 ± 0.166 $\chi^2/\text{NDF}: 1387.6/101$

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 16.782 ± 0.498 $\chi^2/\text{NDF}: 5489.1/24$

Left Out: 13.632 ± 0.382 $\chi^2/\text{NDF}: 1300.0/23$

Right Out: 10.641 ± 0.426 $\chi^2/\text{NDF}: 7787.9/29$

Left In: 13.058 ± 0.380 $\chi^2/\text{NDF}: 1024.7/22$

Left: 13.344 ± 0.269 $\chi^2/\text{NDF}: 2325.9/46$

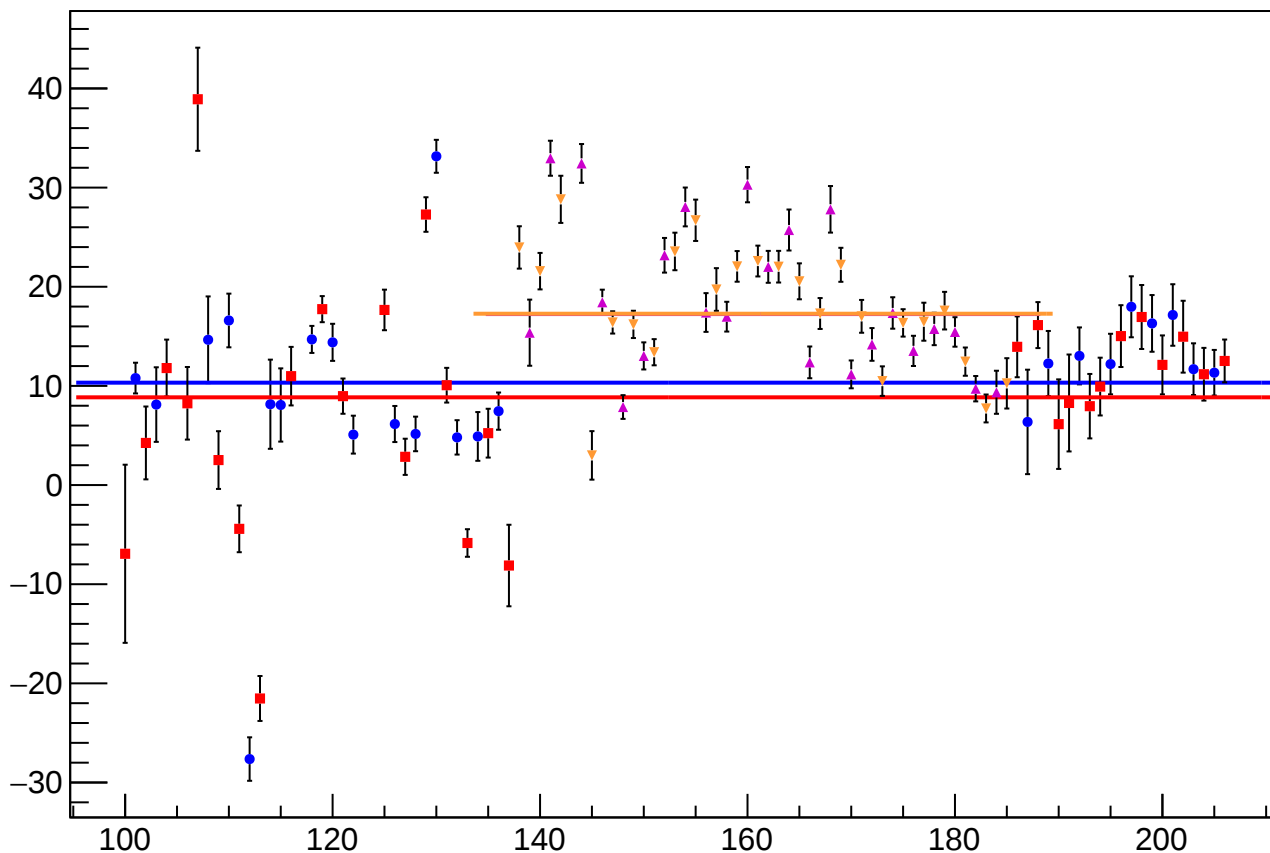
Right: 13.237 ± 0.324 $\chi^2/\text{NDF}: 13364.7/54$

In: 14.426 ± 0.302 $\chi^2/\text{NDF}: 6549.1/47$

Out: 12.301 ± 0.284 $\chi^2/\text{NDF}: 9115.3/53$

All: 13.300 ± 0.207 $\chi^2/\text{NDF}: 15690.6/101$

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.325 ± 0.452 $\chi^2/\text{NDF}: 567.9/24$

Left Out: 17.280 ± 0.337 $\chi^2/\text{NDF}: 243.9/23$

Right Out: 8.847 ± 0.443 $\chi^2/\text{NDF}: 605.1/29$

Left In: 17.245 ± 0.339 $\chi^2/\text{NDF}: 440.8/22$

Left: 17.262 ± 0.239 $\chi^2/\text{NDF}: 684.6/46$

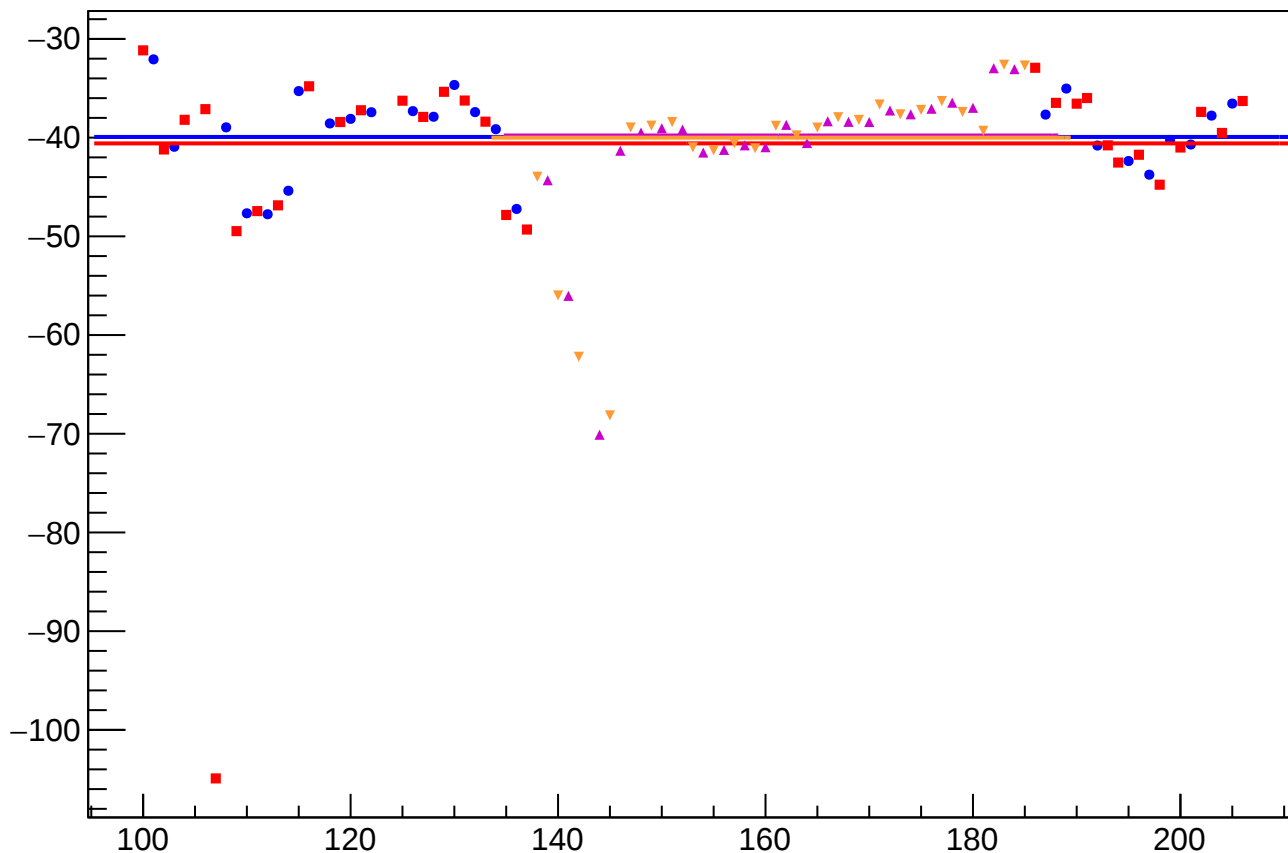
Right: 9.572 ± 0.316 $\chi^2/\text{NDF}: 1178.5/54$

In: 14.747 ± 0.271 $\chi^2/\text{NDF}: 1158.8/47$

Out: 14.187 ± 0.268 $\chi^2/\text{NDF}: 1078.4/53$

All: 14.464 ± 0.191 $\chi^2/\text{NDF}: 2239.4/101$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.931 ± 0.023 χ^2/NDF : 31363.0/24

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -40.584 ± 0.022 χ^2/NDF : 106703.2/29

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

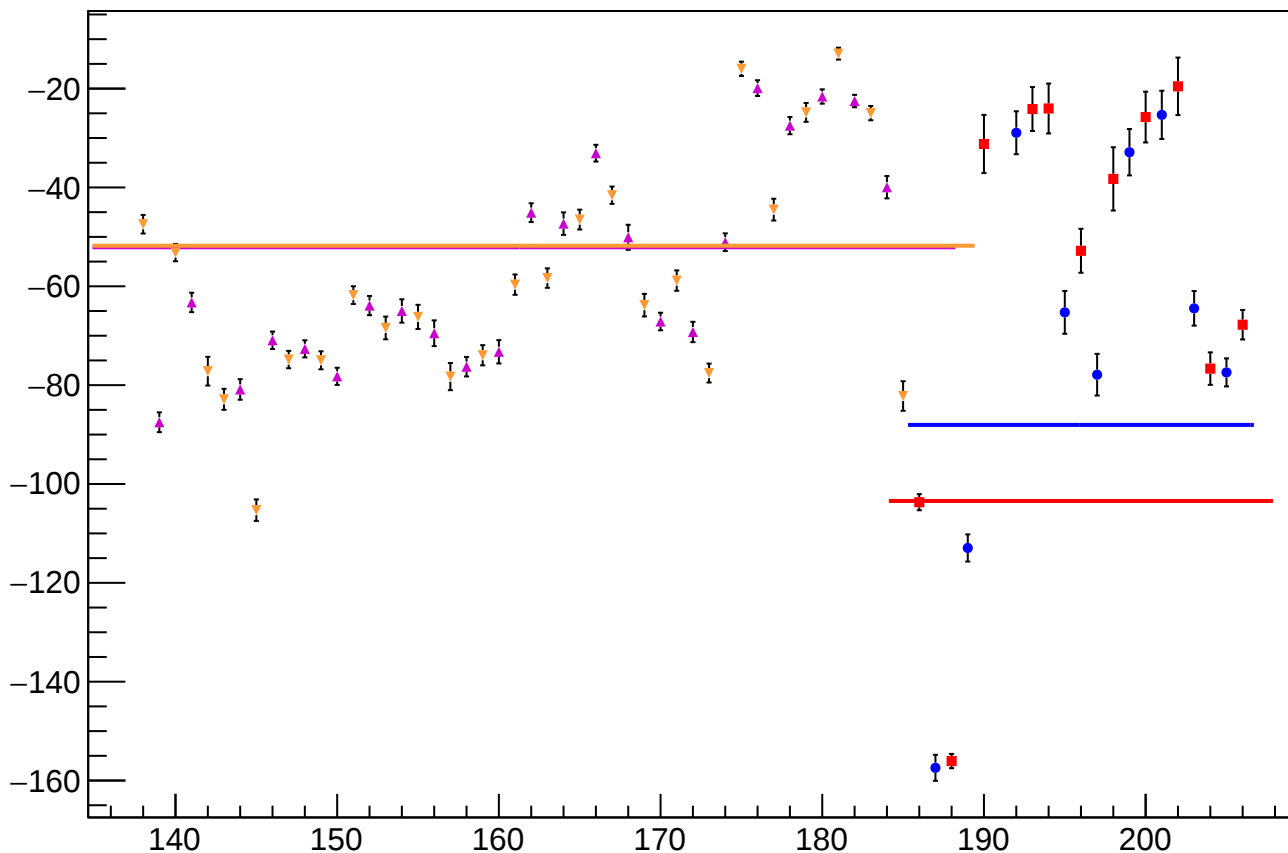
Right: -40.278 ± 0.016 χ^2/NDF : 138494.8/54

In: -39.831 ± 0.013 χ^2/NDF : 175885.1/47

Out: -40.202 ± 0.013 χ^2/NDF : 279445.0/53

All: -40.020 ± 0.009 χ^2/NDF : 455749.0/101

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -88.046 ± 1.168 $\chi^2/\text{NDF}: 1358.5/8$

Left Out: -51.787 ± 0.383 $\chi^2/\text{NDF}: 4164.8/24$

Right Out: -103.437 ± 0.870 $\chi^2/\text{NDF}: 2920.3/10$

Left In: -52.104 ± 0.389 $\chi^2/\text{NDF}: 3280.2/22$

Left: -51.943 ± 0.273 $\chi^2/\text{NDF}: 7445.3/47$

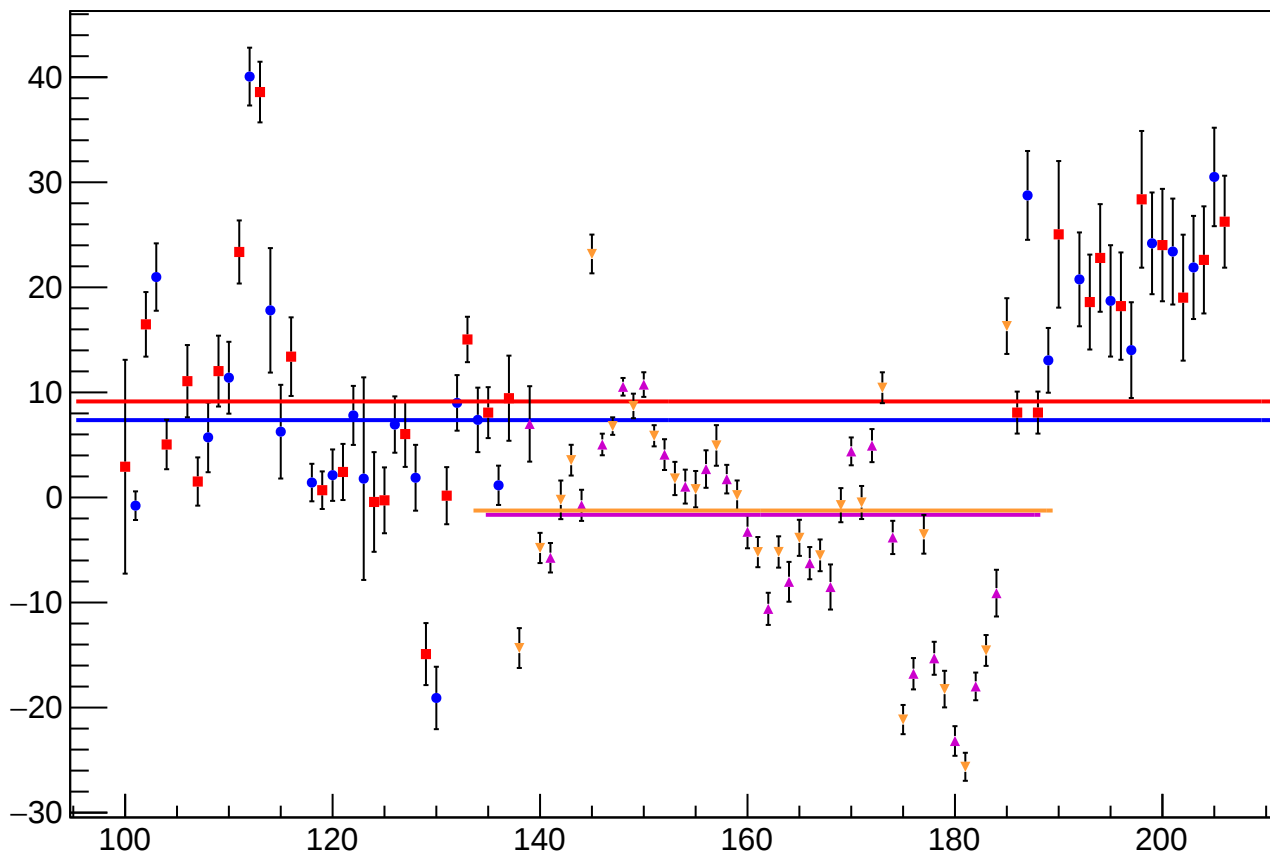
Right: -97.942 ± 0.698 $\chi^2/\text{NDF}: 4390.5/19$

In: -55.687 ± 0.369 $\chi^2/\text{NDF}: 5491.3/31$

Out: -60.153 ± 0.350 $\chi^2/\text{NDF}: 10036.6/35$

All: -58.035 ± 0.254 $\chi^2/\text{NDF}: 15605.1/67$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.361 ± 0.578 $\chi^2/\text{NDF}: 409.6/25$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 9.139 ± 0.561 $\chi^2/\text{NDF}: 338.5/29$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

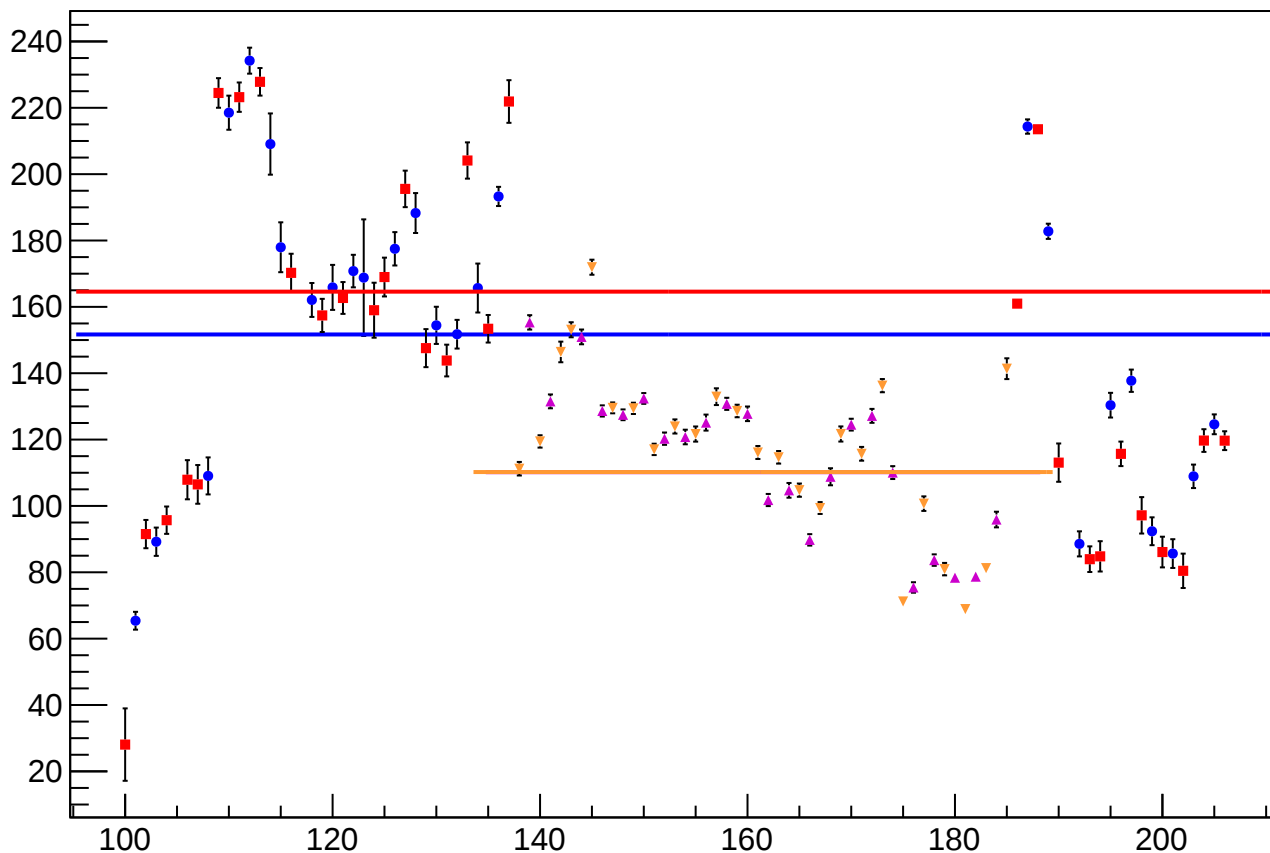
Right: 8.277 ± 0.402 $\chi^2/\text{NDF}: 753.0/55$

In: 0.264 ± 0.266 $\chi^2/\text{NDF}: 1693.3/48$

Out: 0.967 ± 0.259 $\chi^2/\text{NDF}: 1931.1/54$

All: 0.626 ± 0.186 $\chi^2/\text{NDF}: 3628.0/103$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 151.681+/-0.769 χ^2/NDF : 4282.2/25

Left Out: 110.213+/-0.382 χ^2/NDF : 4593.7/24

Right Out: 164.589+/-0.621 χ^2/NDF : 5618.8/29

Left In: 110.171+/-0.386 χ^2/NDF : 3702.6/22

Left: 110.192+/-0.272 χ^2/NDF : 8296.2/47

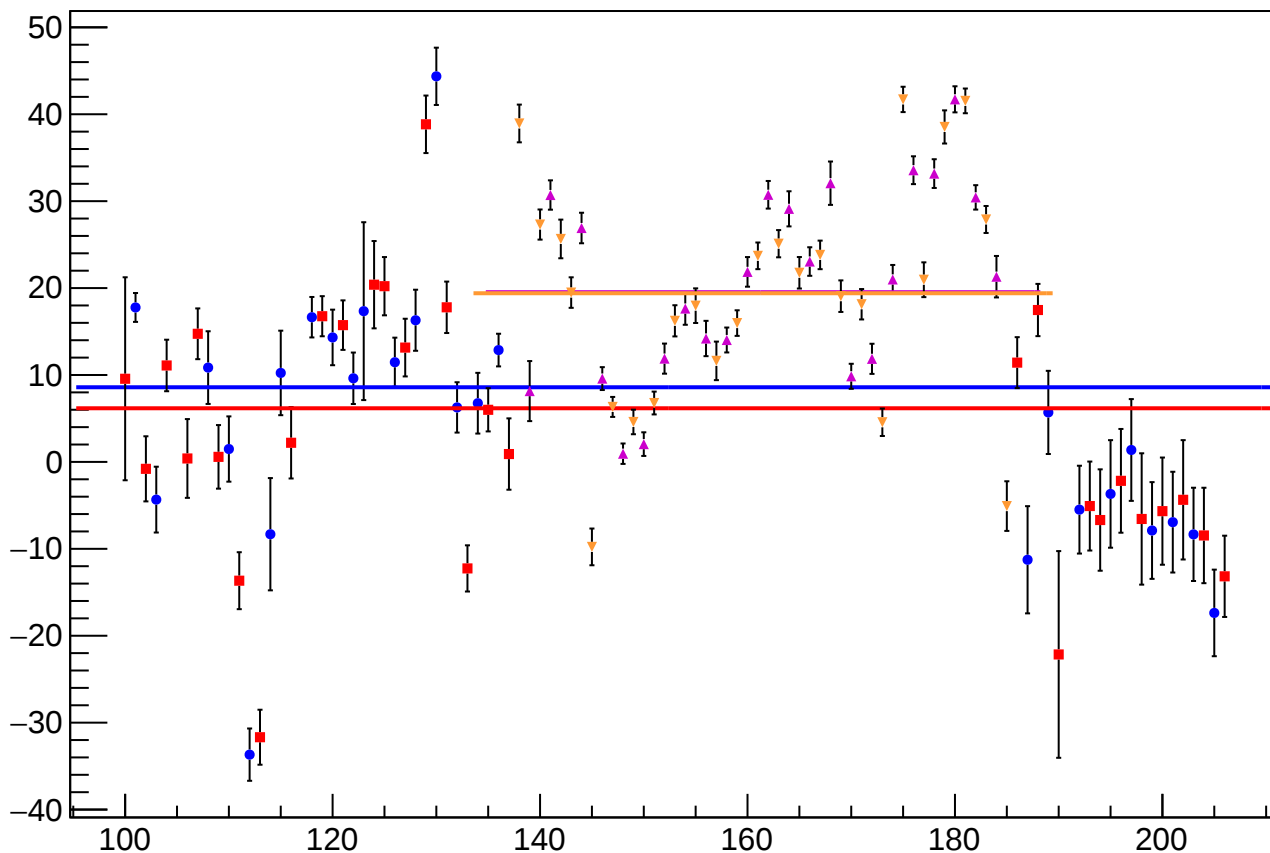
Right: 159.497+/-0.483 χ^2/NDF : 10071.5/55

In: 118.522+/-0.345 χ^2/NDF : 10311.5/48

Out: 125.150+/-0.325 χ^2/NDF : 15777.6/54

All: 122.030+/-0.237 χ^2/NDF : 26284.6/103

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.589 ± 0.670 χ^2/NDF : 473.2/25

Left Out: 19.405 ± 0.335 χ^2/NDF : 1453.4/24

Right Out: 6.172 ± 0.665 χ^2/NDF : 492.4/29

Left In: 19.530 ± 0.342 χ^2/NDF : 1181.3/22

Left: 19.466 ± 0.239 χ^2/NDF : 2634.8/47

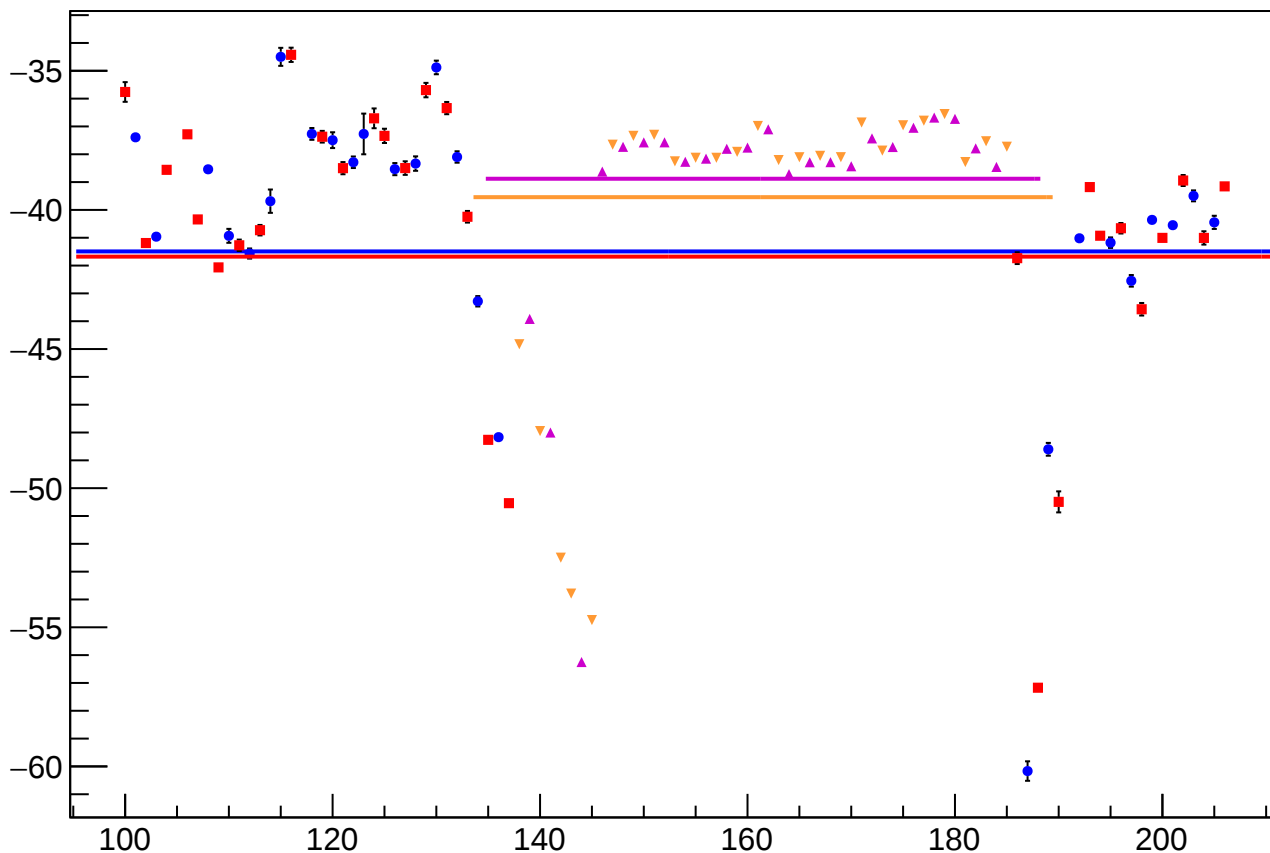
Right: 7.372 ± 0.472 χ^2/NDF : 972.1/55

In: 17.264 ± 0.305 χ^2/NDF : 1865.9/48

Out: 16.734 ± 0.299 χ^2/NDF : 2261.4/54

All: 16.994 ± 0.213 χ^2/NDF : 4128.8/103

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.492 ± 0.033 $\chi^2/\text{NDF}: 16568.2/25$

Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$

Right Out: -41.679 ± 0.032 $\chi^2/\text{NDF}: 23069.1/29$

Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$

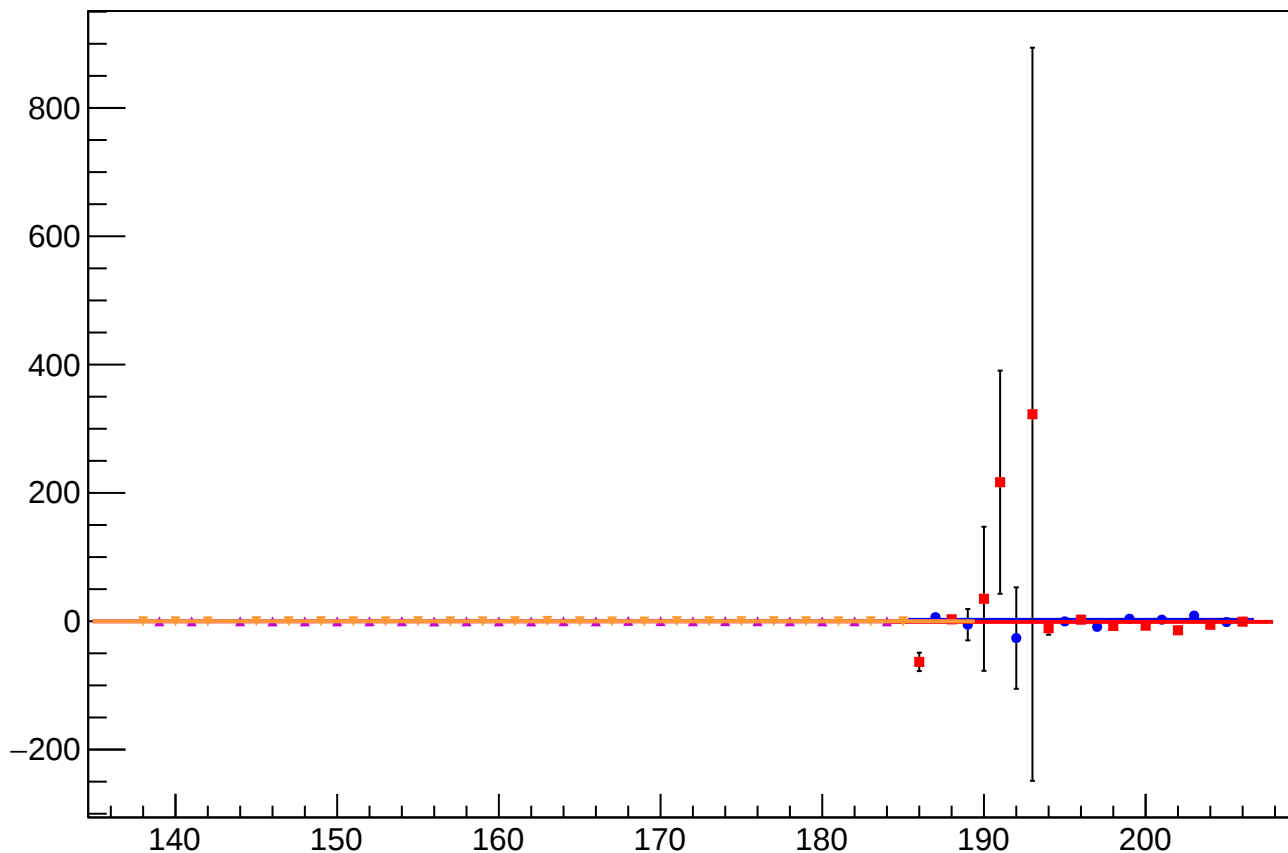
Right: -41.588 ± 0.023 $\chi^2/\text{NDF}: 39653.6/55$

In: -39.365 ± 0.014 $\chi^2/\text{NDF}: 75015.9/48$

Out: -39.954 ± 0.014 $\chi^2/\text{NDF}: 118654.7/54$

All: -39.664 ± 0.010 $\chi^2/\text{NDF}: 194528.4/103$

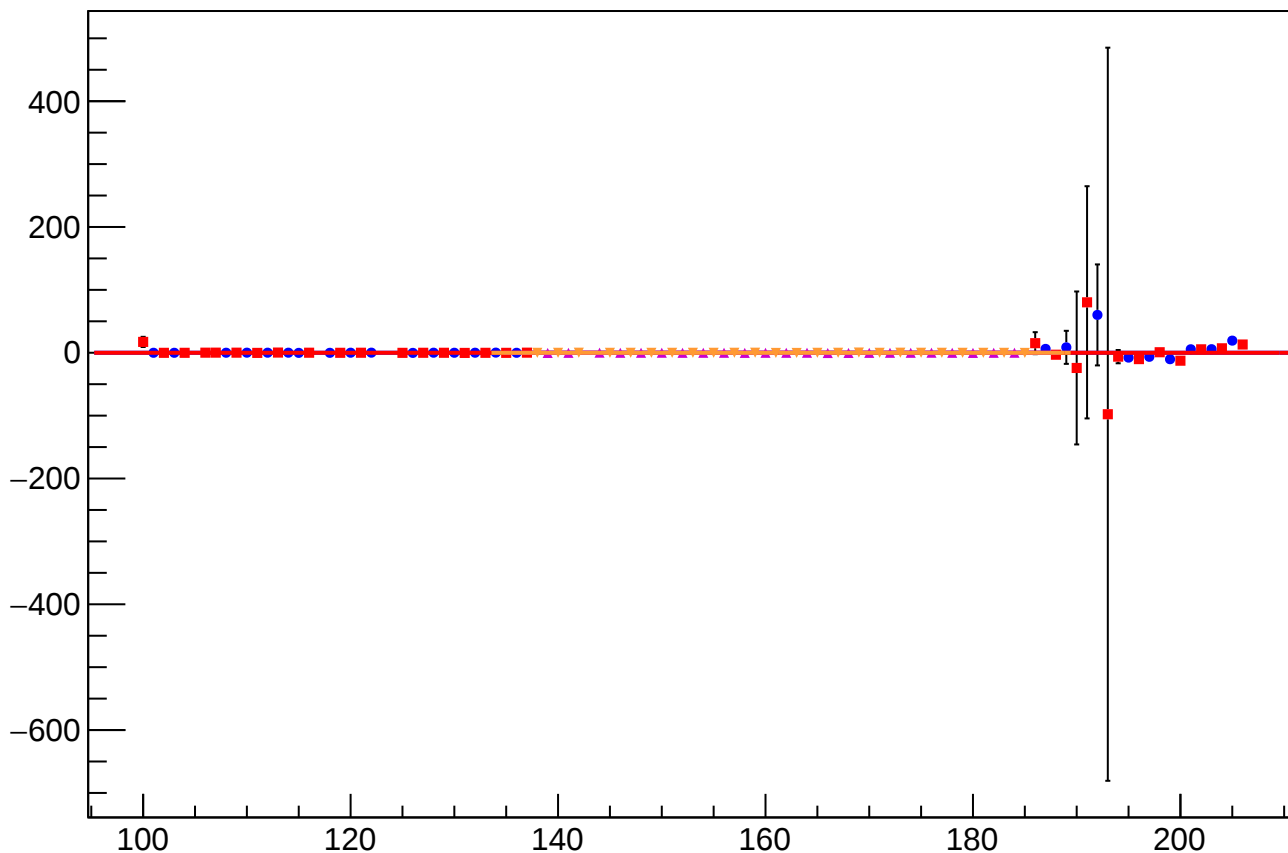
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.148 ± 1.637 $\chi^2/\text{NDF}: 10.8/8$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.995 ± 1.422 $\chi^2/\text{NDF}: 32.5/11$
 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: 0.357 ± 1.073 $\chi^2/\text{NDF}: 45.4/20$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 45.8/31$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 72.6/35$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 122.6/67$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 31.8/24

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 41.1/29

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

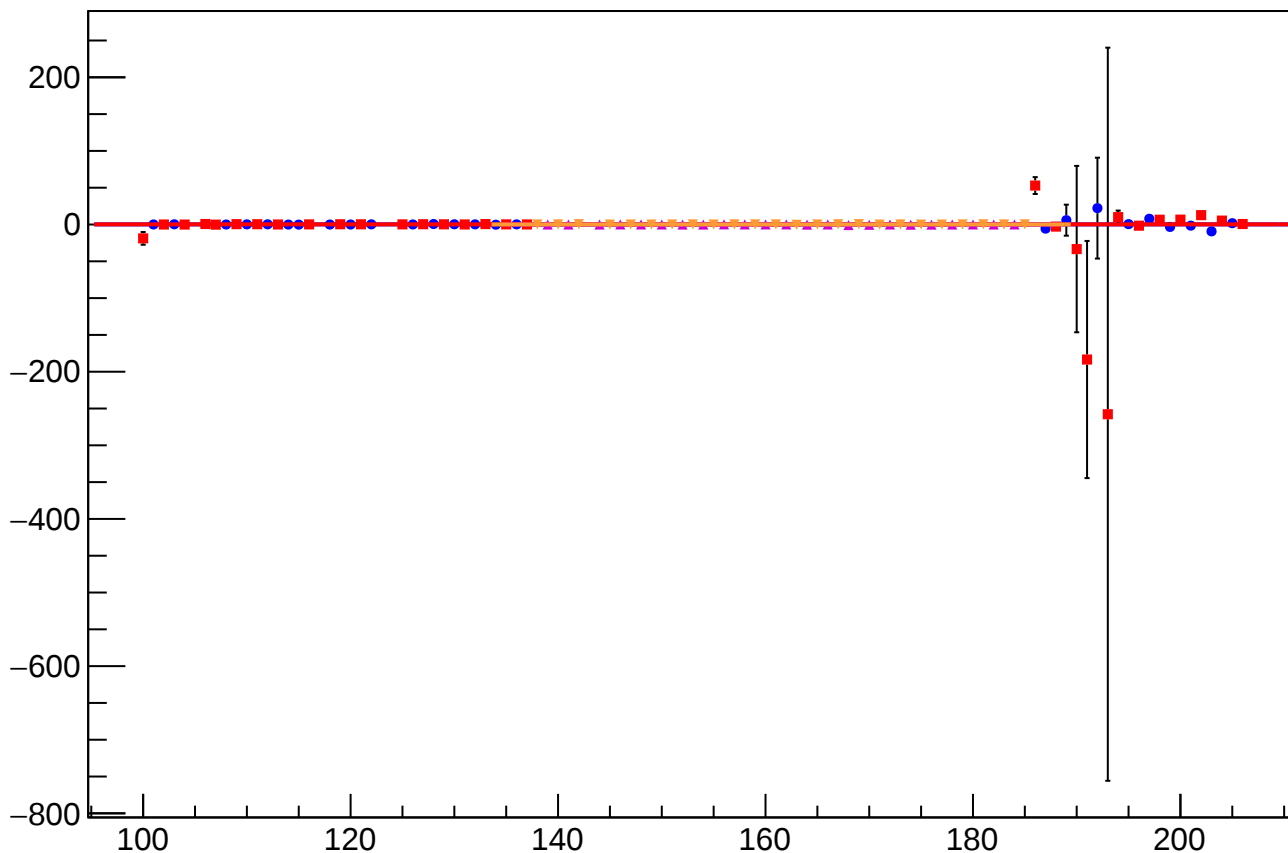
Right: -0.025 ± 0.020 χ^2/NDF : 74.3/54

In: -0.038 ± 0.015 χ^2/NDF : 65.8/47

Out: -0.073 ± 0.015 χ^2/NDF : 67.7/53

All: -0.056 ± 0.011 χ^2/NDF : 136.2/101

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 27.0/24

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 57.0/29

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

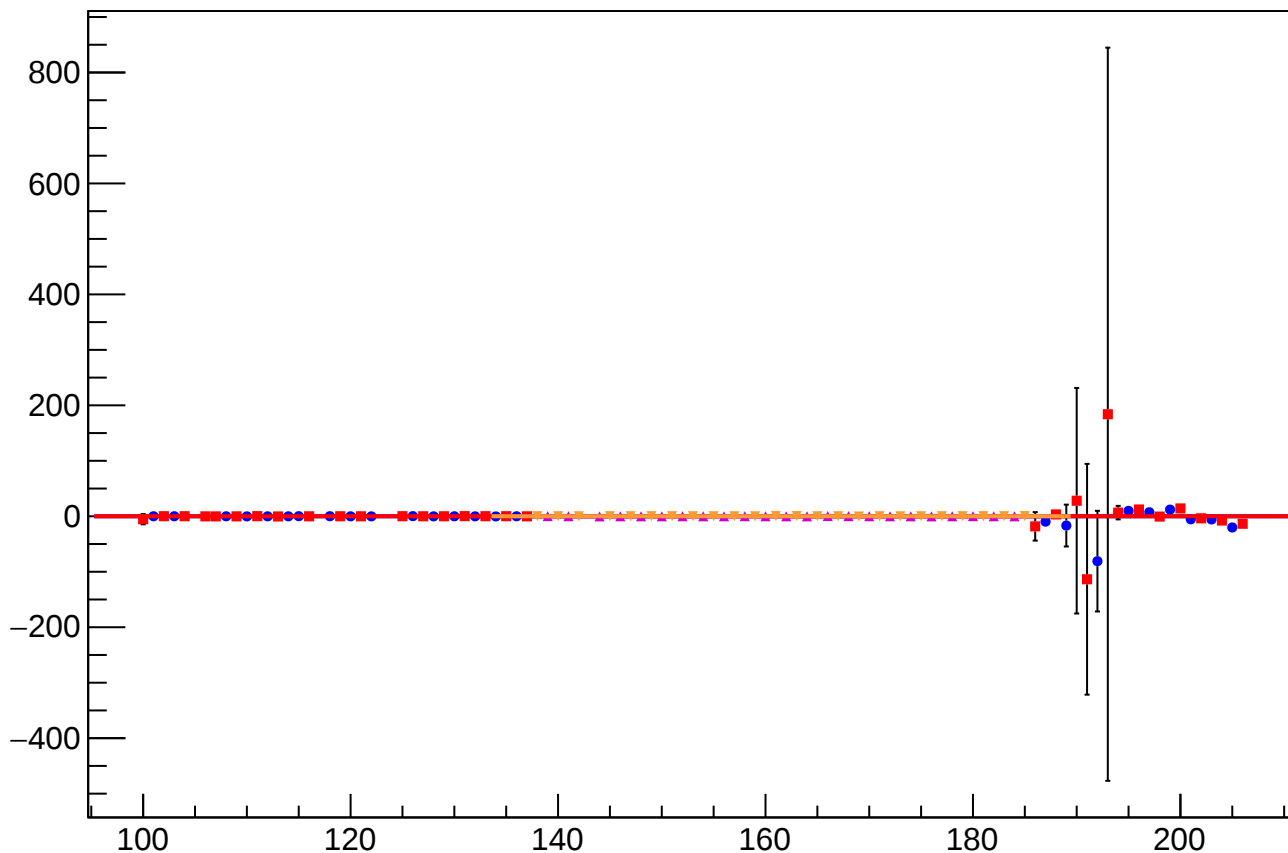
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 84.7/54

In: 0.043 $\pm$ 0.020 χ^2 /NDF:69.6/47

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:102.4/53

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 176.4/101

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007+/-0.033 χ^2/NDF : 33.4/24

Left Out: 0.105+/-0.020 χ^2/NDF :29.5/23

Right Out: 0.057+/-0.034 χ^2/NDF : 34.6/29

Left In: 0.069+/-0.020 χ^2/NDF :31.3/22

Left: 0.088+/-0.014 χ^2/NDF : 62.5/46

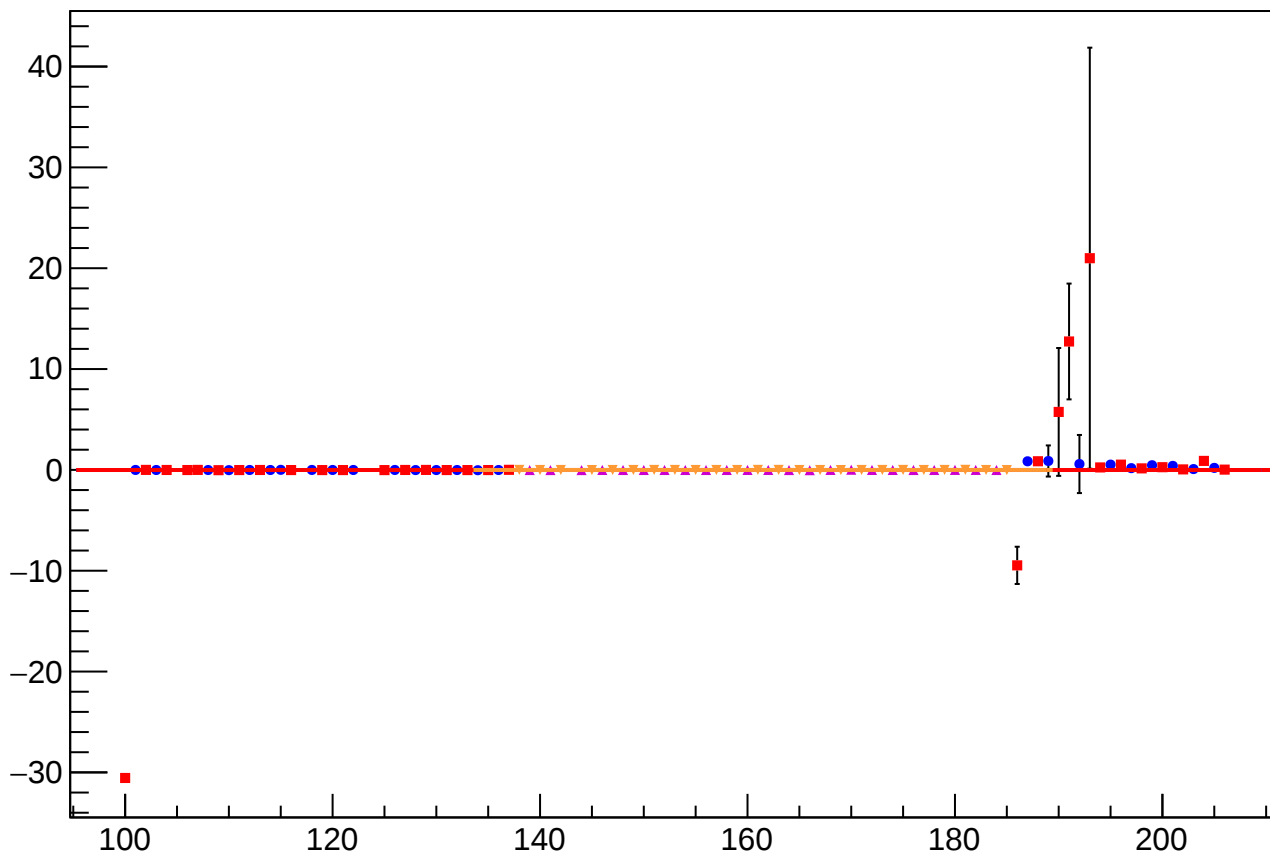
Right: 0.024+/-0.024 χ^2/NDF : 69.8/54

In: 0.049+/-0.017 χ^2/NDF :68.6/47

Out: 0.093+/-0.017 χ^2/NDF :65.6/53

All: 0.071+/-0.012 χ^2/NDF : 137.6/101

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 35.7/24

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11954.3/29

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

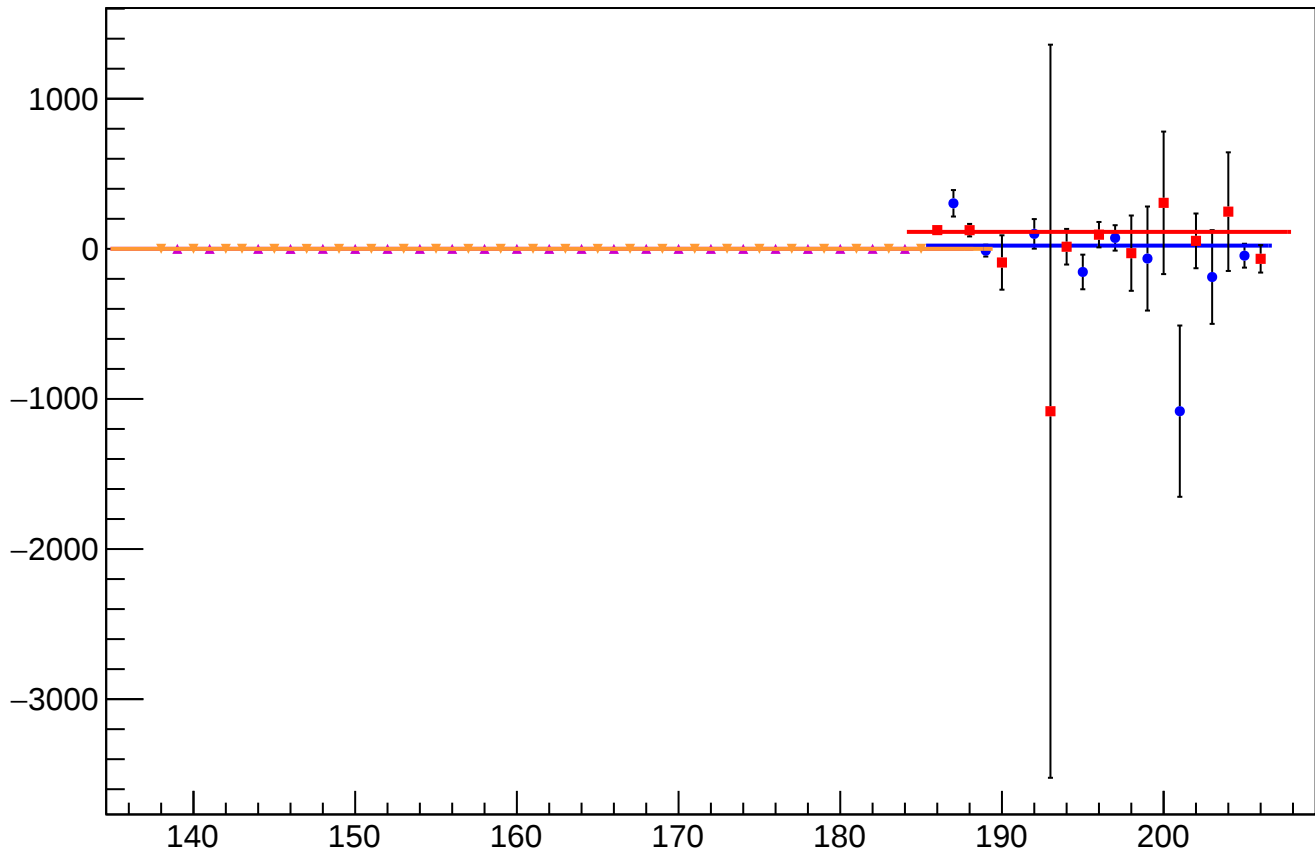
Right: -0.012 ± 0.001 χ^2/NDF : 11990.0/54

In: -0.009 ± 0.001 χ^2/NDF : 78.7/47

Out: -0.009 ± 0.001 χ^2/NDF : 11988.2/53

All: -0.009 ± 0.001 χ^2/NDF : 12067.2/101

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 21.481+/-28.082 χ^2/NDF : 19.2/8

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 112.948+/-16.185 χ^2/NDF : 7.3/10

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

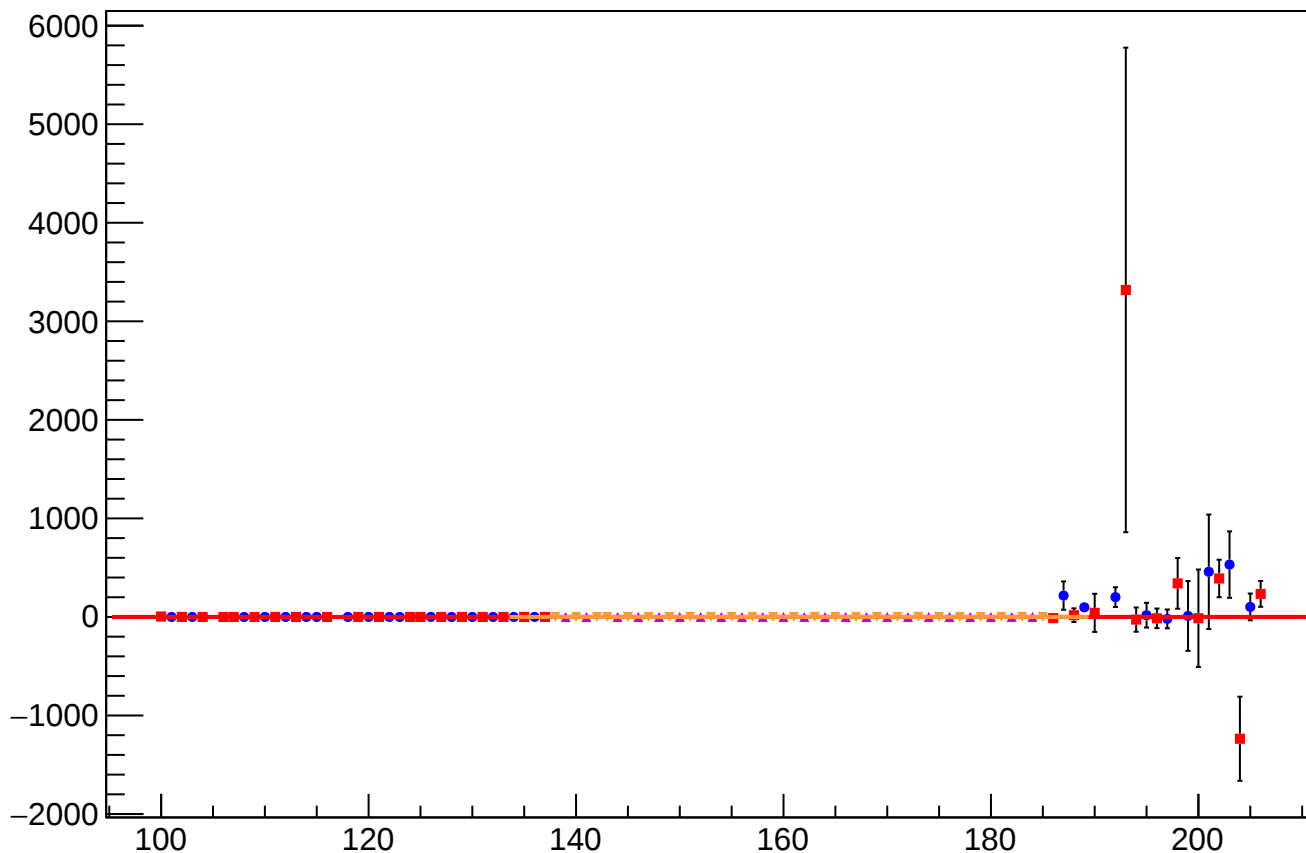
Right: 90.141+/-14.023 χ^2/NDF : 34.4/19

In: 0.002+/-0.028 χ^2/NDF :48.8/31

Out: 0.018+/-0.027 χ^2/NDF :86.9/35

All: 0.010+/-0.019 χ^2/NDF : 135.9/67

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 χ^2/NDF : 37.7/25

Left Out: -0.060 ± 0.021 χ^2/NDF : 24.6/24

Right Out: -0.120 ± 0.039 χ^2/NDF : 38.3/29

Left In: -0.071 ± 0.022 χ^2/NDF : 49.0/22

Left: -0.065 ± 0.015 χ^2/NDF : 73.7/47

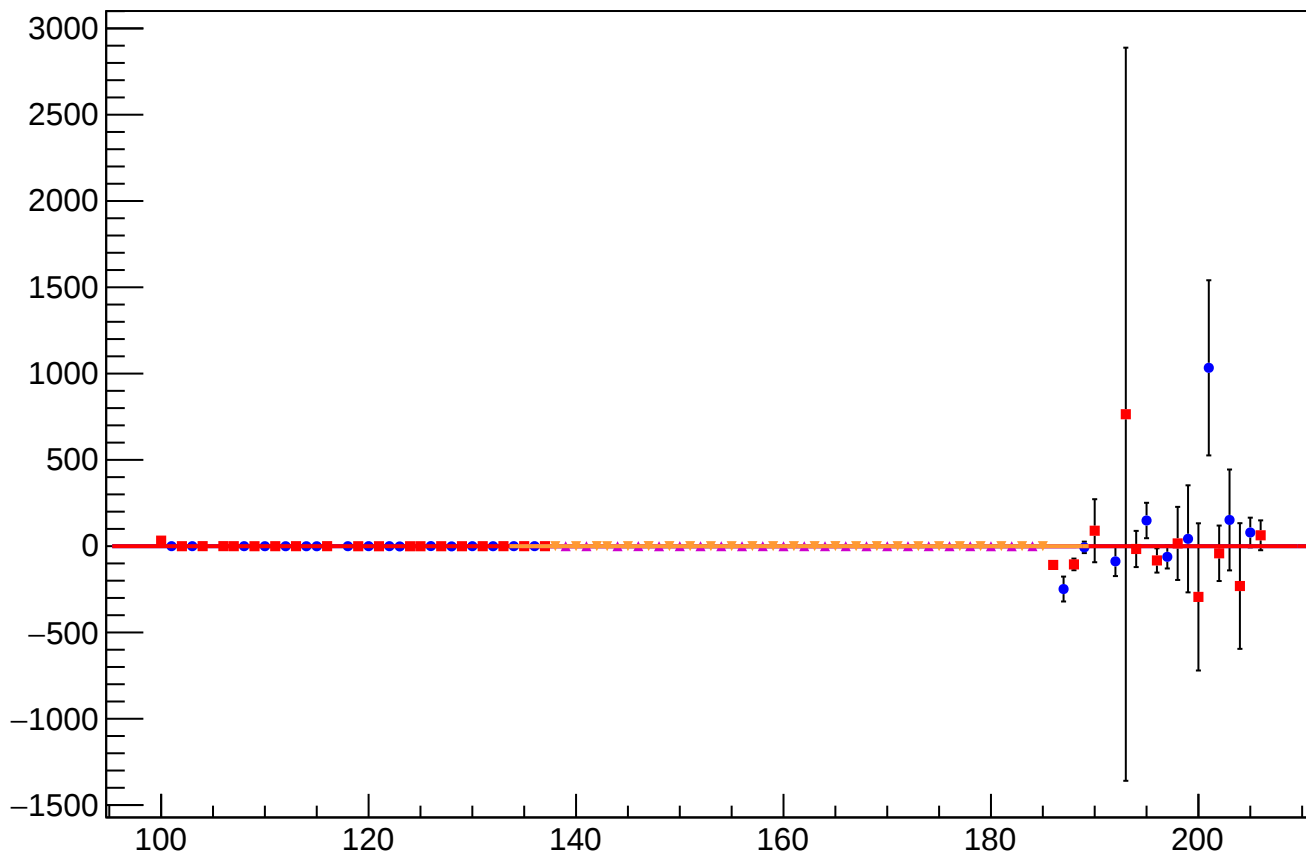
Right: -0.068 ± 0.027 χ^2/NDF : 79.4/55

In: -0.058 ± 0.019 χ^2/NDF : 88.0/48

Out: -0.073 ± 0.019 χ^2/NDF : 64.7/54

All: -0.066 ± 0.013 χ^2/NDF : 153.1/103

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 45.9/25$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 79.1/29$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

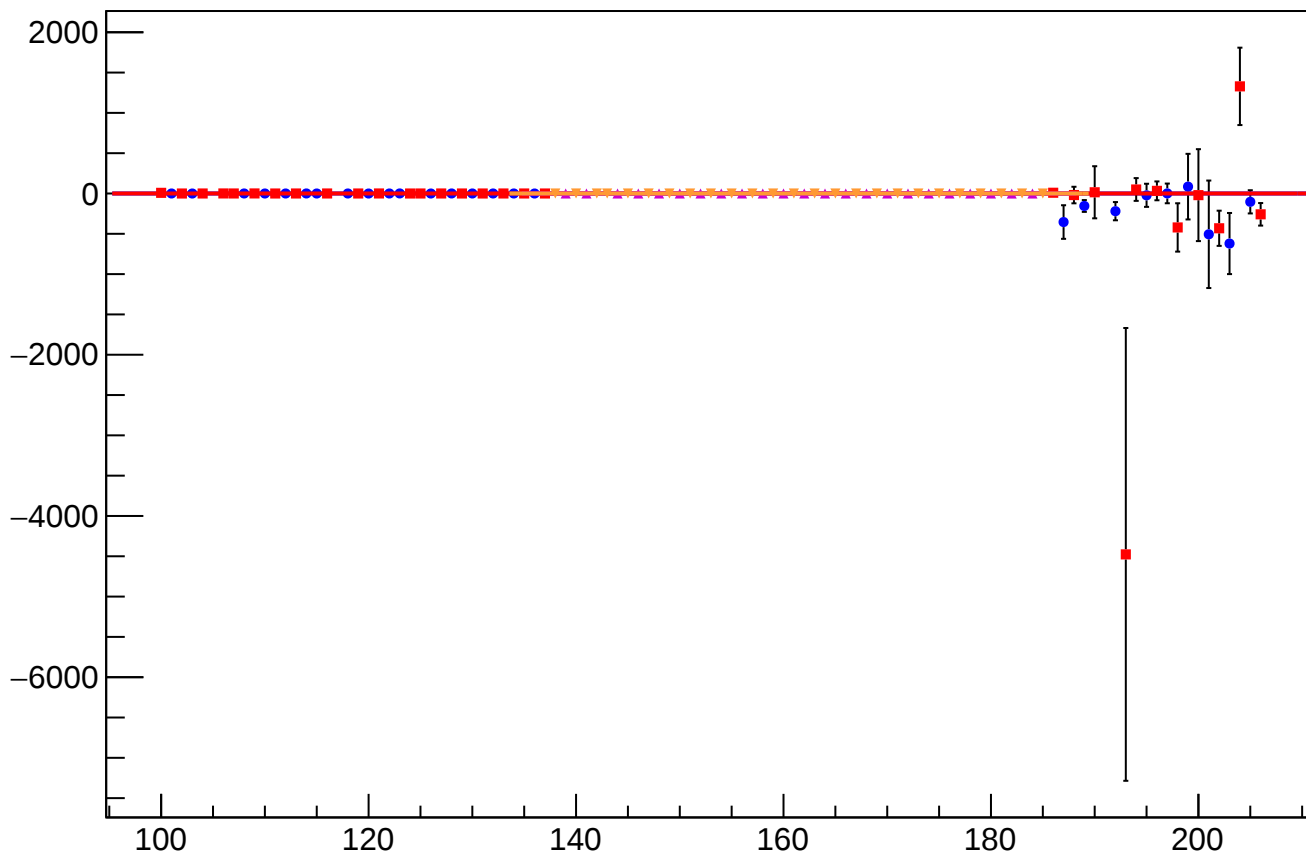
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 125.1/55$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 76.4/48$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 112.0/54$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 188.4/103$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 36.6/25

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 36.6/29

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

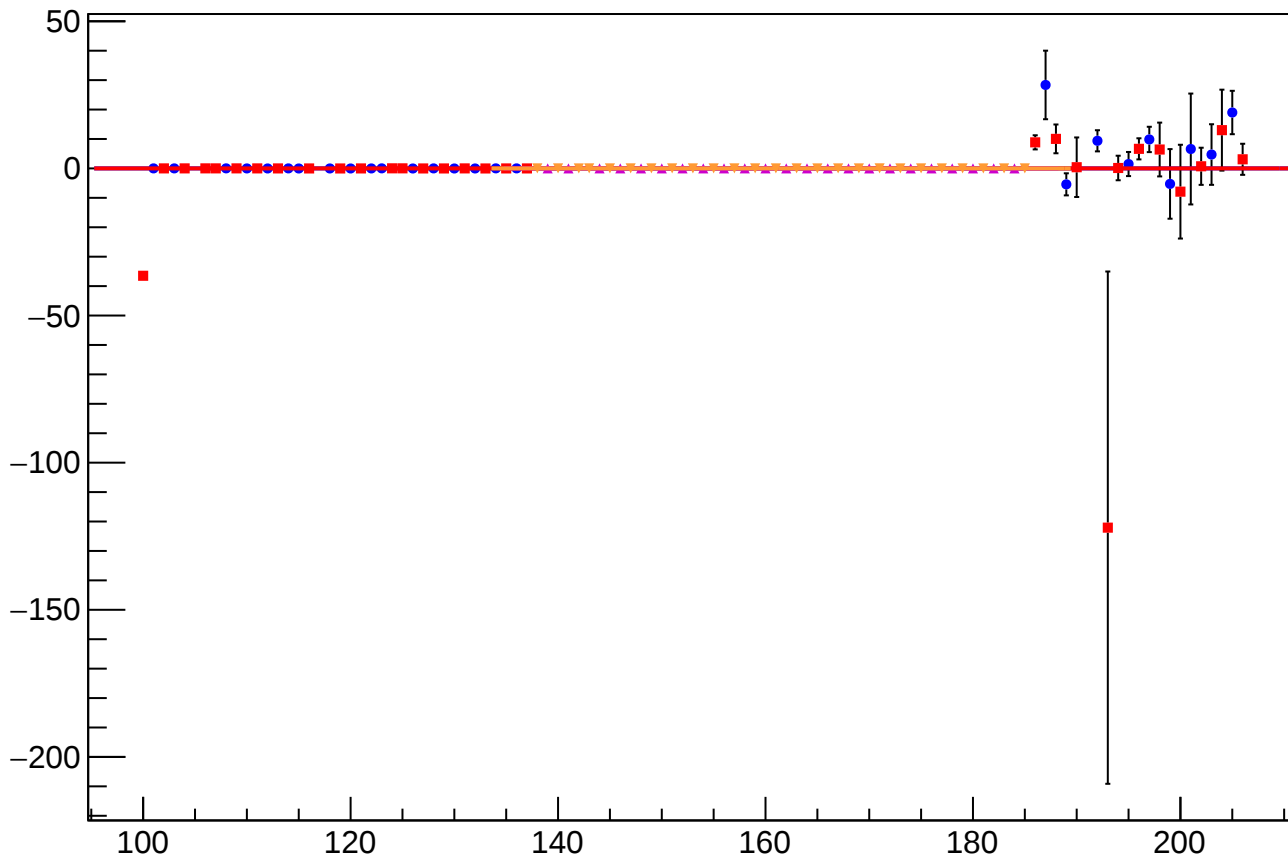
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 77.3/55

In: 0.056 $\pm$ 0.021 χ^2 /NDF:89.4/48

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:63.7/54

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 153.9/103

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 57.8/25

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10474.3/29

Left In: 0.009 $\pm$ 0.001 χ^2 /NDF: 15.0/22

Left: 0.009 $\pm$ 0.001 χ^2 /NDF: 41.4/47

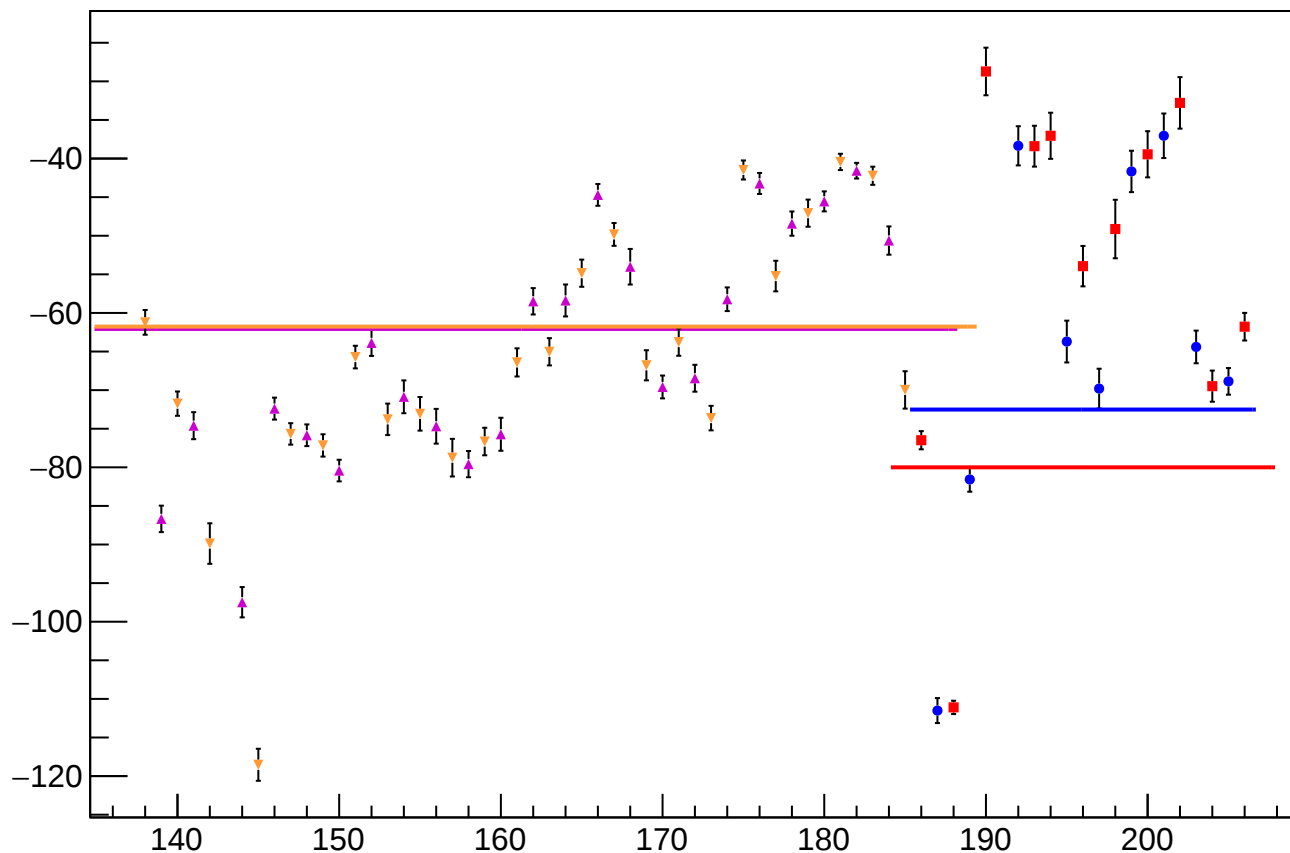
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10532.2/55

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 82.3/48

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10509.6/54

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10592.0/103

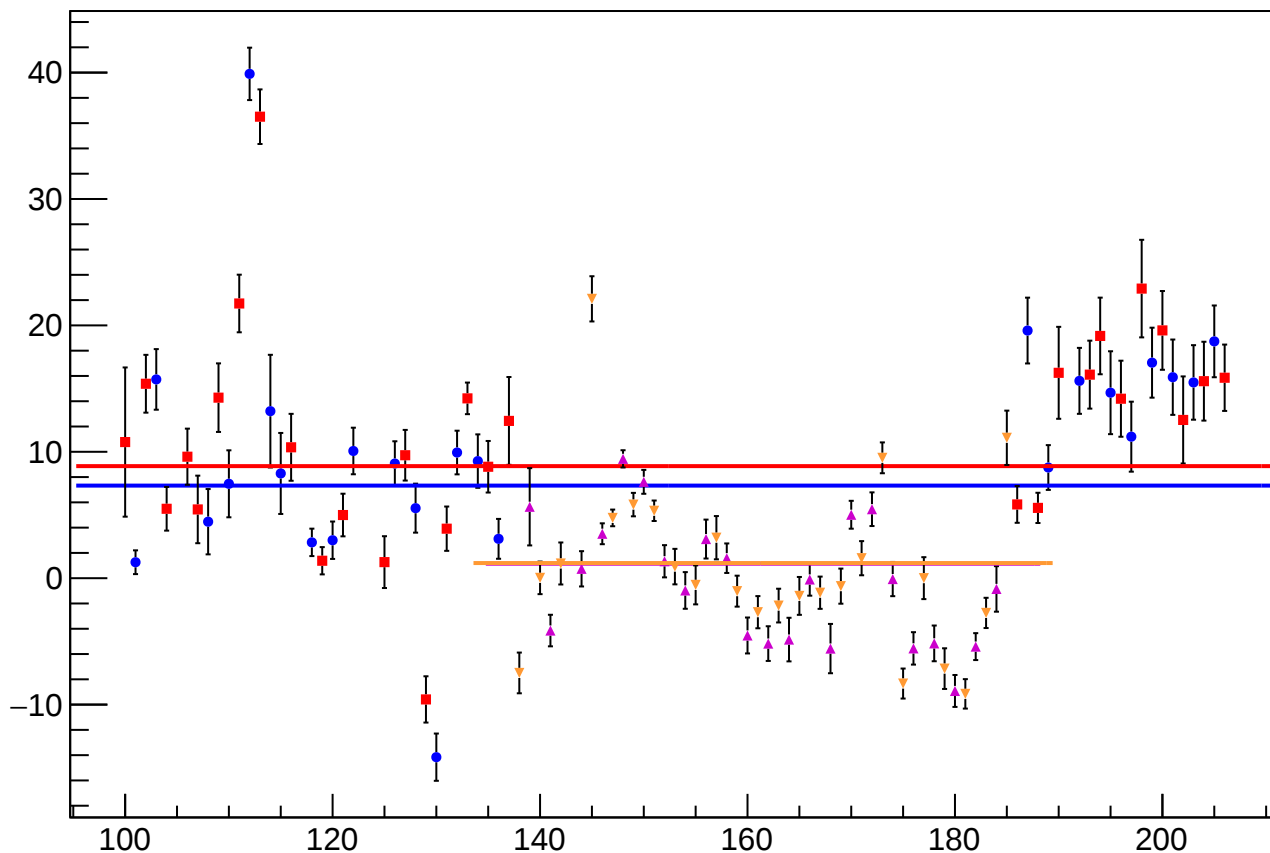
reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -72.516 $\pm$ 0.700 χ^2 /NDF: 1109.2/8
 Left Out: -61.771 $\pm$ 0.334 χ^2 /NDF:2504.9/23
 Right Out: -80.000 $\pm$ 0.543 χ^2 /NDF: 2714.9/10
 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: -77.191 $\pm$ 0.429 χ^2 /NDF: 3895.5/19
 In: -63.993 $\pm$ 0.300 χ^2 /NDF:3482.7/31
 Out: -66.775 $\pm$ 0.284 χ^2 /NDF:6038.1/34
 All: -65.459 $\pm$ 0.206 χ^2 /NDF: 9566.1/66

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.326 ± 0.385 $\chi^2/\text{NDF}: 560.2/24$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 8.866 ± 0.379 $\chi^2/\text{NDF}: 486.3/28$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

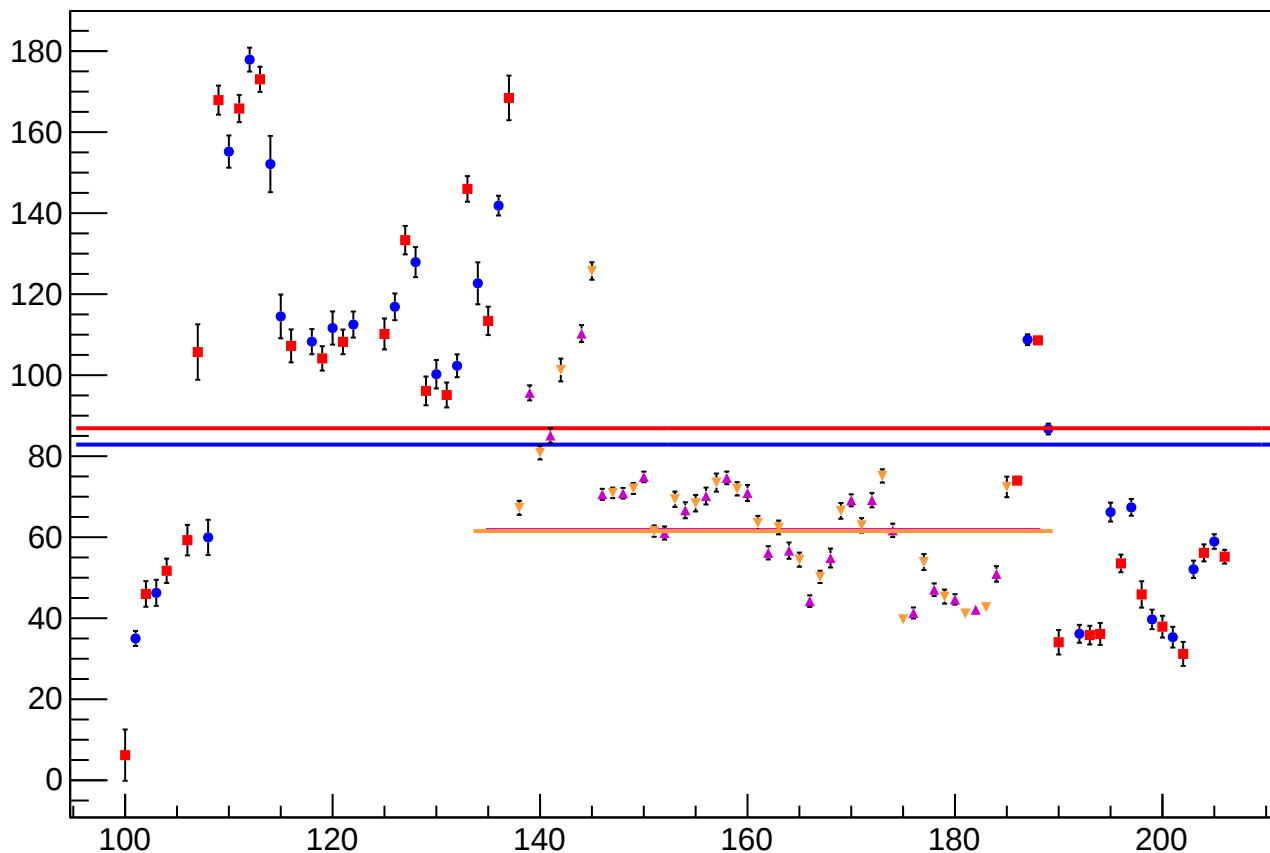
Right: 8.110 ± 0.270 $\chi^2/\text{NDF}: 1054.7/53$

In: 3.031 ± 0.213 $\chi^2/\text{NDF}: 1201.9/47$

Out: 3.560 ± 0.210 $\chi^2/\text{NDF}: 1296.5/52$

All: 3.299 ± 0.150 $\chi^2/\text{NDF}: 2501.5/100$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 82.861+/-0.493 χ^2/NDF : 5491.4/24

Left Out: 61.512+/-0.332 χ^2/NDF : 2606.0/23

Right Out: 86.898+/-0.402 χ^2/NDF : 7271.0/28

Left In: 61.762+/-0.330 χ^2/NDF : 2418.2/22

Left: 61.638+/-0.234 χ^2/NDF : 5024.5/46

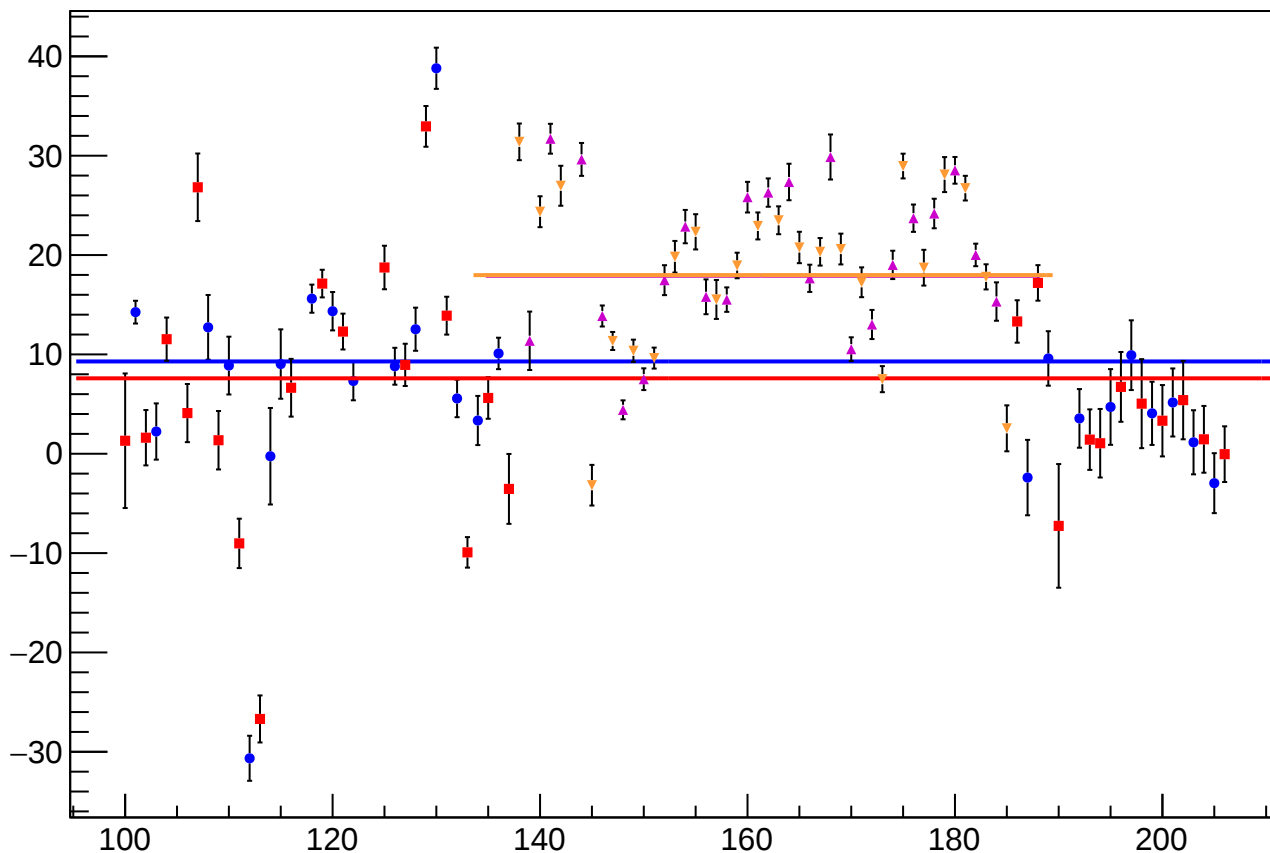
Right: 85.287+/-0.312 χ^2/NDF : 12802.6/53

In: 68.288+/-0.274 χ^2/NDF : 9174.3/47

Out: 71.822+/-0.256 χ^2/NDF : 12246.9/52

All: 70.176+/-0.187 χ^2/NDF : 21509.9/100

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.291 $\pm$ 0.452 χ^2/NDF : 625.1/24

Left Out: 17.980 $\pm$ 0.291 χ^2/NDF :674.4/23

Right Out: 7.591 $\pm$ 0.453 χ^2/NDF : 748.9/28

Left In: 17.916 $\pm$ 0.292 χ^2/NDF :726.5/22

Left: 17.948 $\pm$ 0.206 χ^2/NDF : 1400.9/46

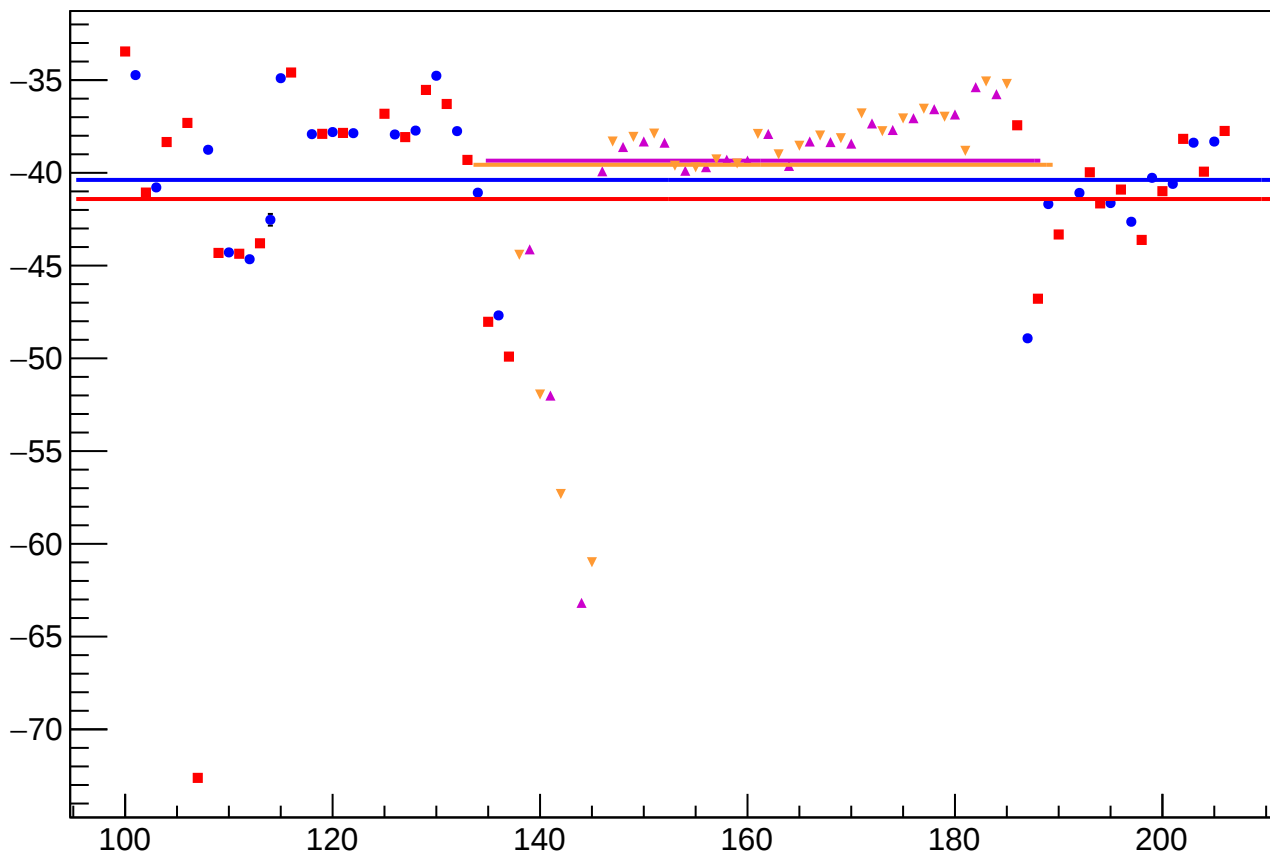
Right: 8.442 $\pm$ 0.320 χ^2/NDF : 1381.0/53

In: 15.376 $\pm$ 0.246 χ^2/NDF :1608.0/47

Out: 14.945 $\pm$ 0.245 χ^2/NDF :1795.9/52

All: 15.159 $\pm$ 0.173 χ^2/NDF : 3405.5/100

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.381 ± 0.023 χ^2/NDF : 27874.3/24

Left Out: -39.566 ± 0.014 χ^2/NDF : 141198.7/23

Right Out: -41.411 ± 0.022 χ^2/NDF : 68553.3/28

Left In: -39.344 ± 0.014 χ^2/NDF : 116615.7/22

Left: -39.454 ± 0.010 χ^2/NDF : 257946.5/46

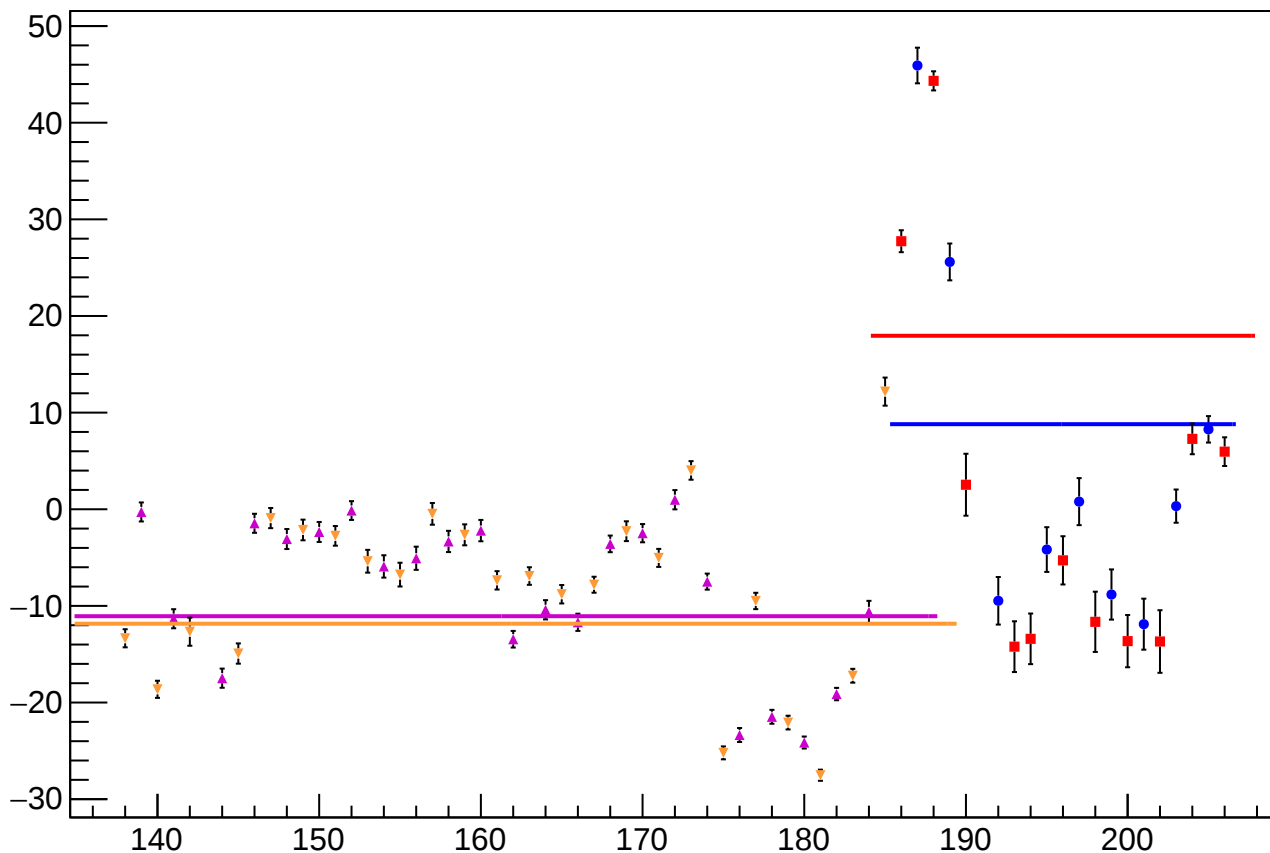
Right: -40.913 ± 0.016 χ^2/NDF : 97487.9/53

In: -39.617 ± 0.012 χ^2/NDF : 146023.3/47

Out: -40.084 ± 0.012 χ^2/NDF : 214816.7/52

All: -39.851 ± 0.008 χ^2/NDF : 361640.9/100

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.803 ± 0.666 $\chi^2/\text{NDF}: 711.7/8$

Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$

Right Out: 17.953 ± 0.532 $\chi^2/\text{NDF}: 1619.6/10$

Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$

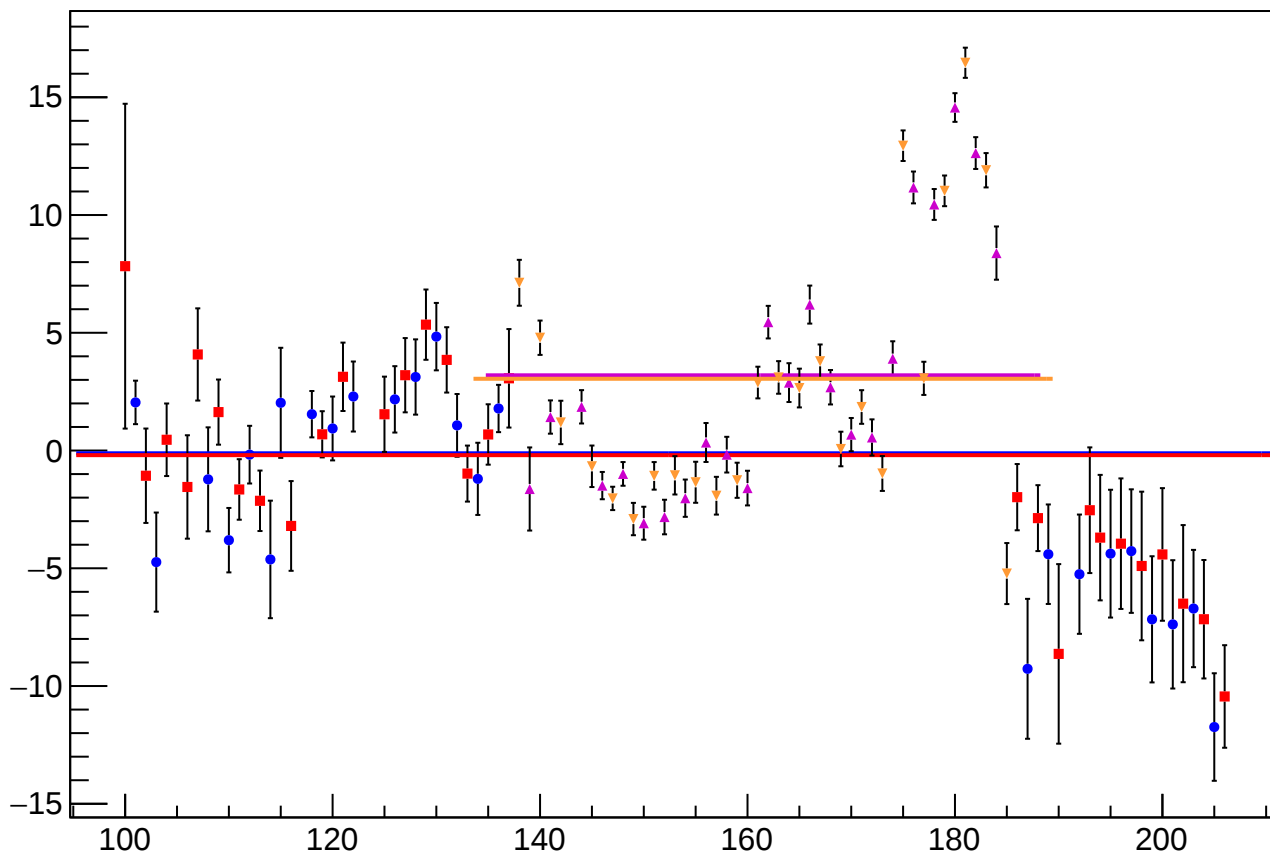
Right: 14.388 ± 0.416 $\chi^2/\text{NDF}: 2446.4/19$

In: -9.602 ± 0.181 $\chi^2/\text{NDF}: 3640.4/31$

Out: -8.574 ± 0.176 $\chi^2/\text{NDF}: 7149.4/34$

All: -9.075 ± 0.126 $\chi^2/\text{NDF}: 10806.3/66$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.118 ± 0.317 χ^2/NDF : 121.3/24

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.197 ± 0.314 χ^2/NDF : 104.5/28

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

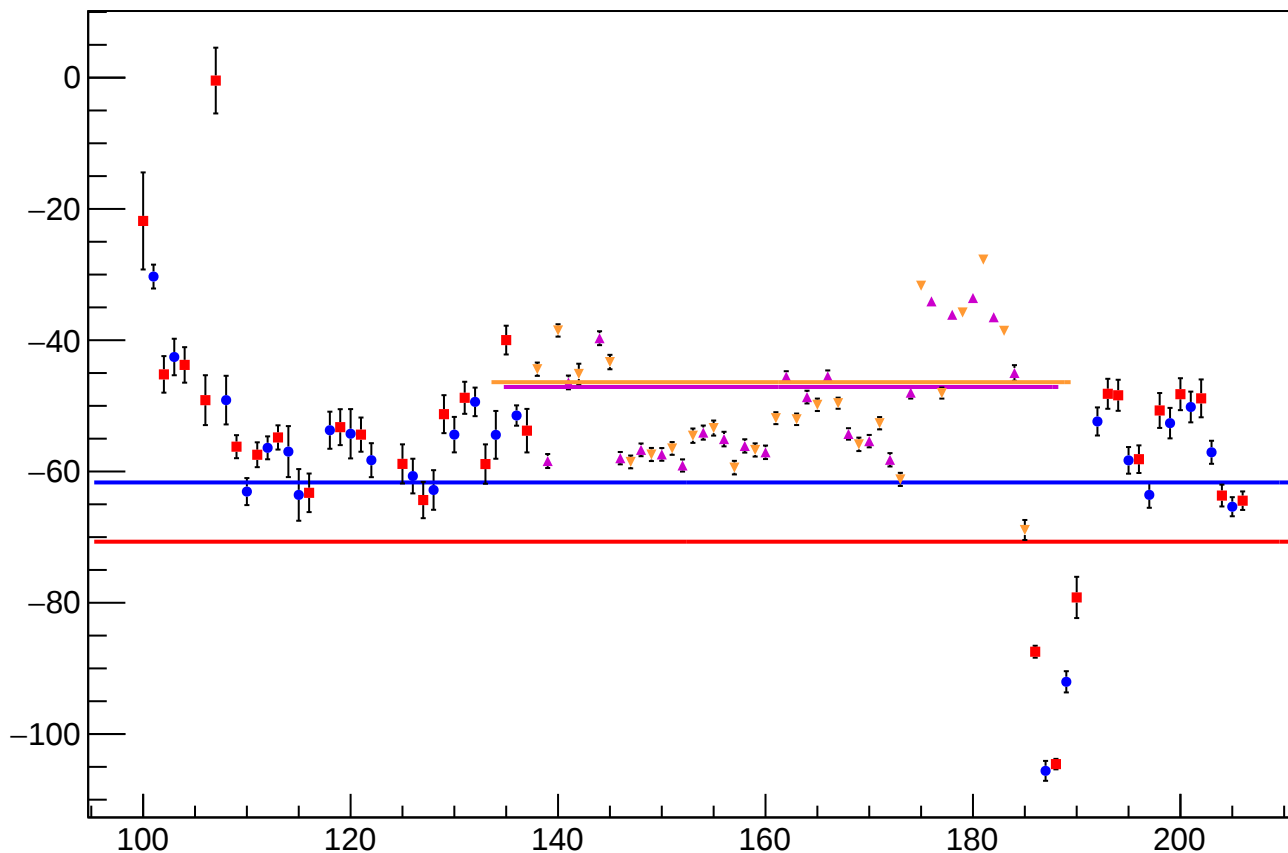
Right: -0.157 ± 0.223 χ^2/NDF : 225.8/53

In: 2.589 ± 0.136 χ^2/NDF : 1505.4/47

Out: 2.457 ± 0.134 χ^2/NDF : 1649.3/52

All: 2.522 ± 0.095 χ^2/NDF : 3155.1/100

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -61.669 ± 0.433 $\chi^2/\text{NDF}: 1735.7/24$

Left Out: -46.392 ± 0.187 $\chi^2/\text{NDF}: 3286.7/23$

Right Out: -70.696 ± 0.368 $\chi^2/\text{NDF}: 3725.9/28$

Left In: -47.128 ± 0.187 $\chi^2/\text{NDF}: 2516.0/22$

Left: -46.759 ± 0.132 $\chi^2/\text{NDF}: 5810.5/46$

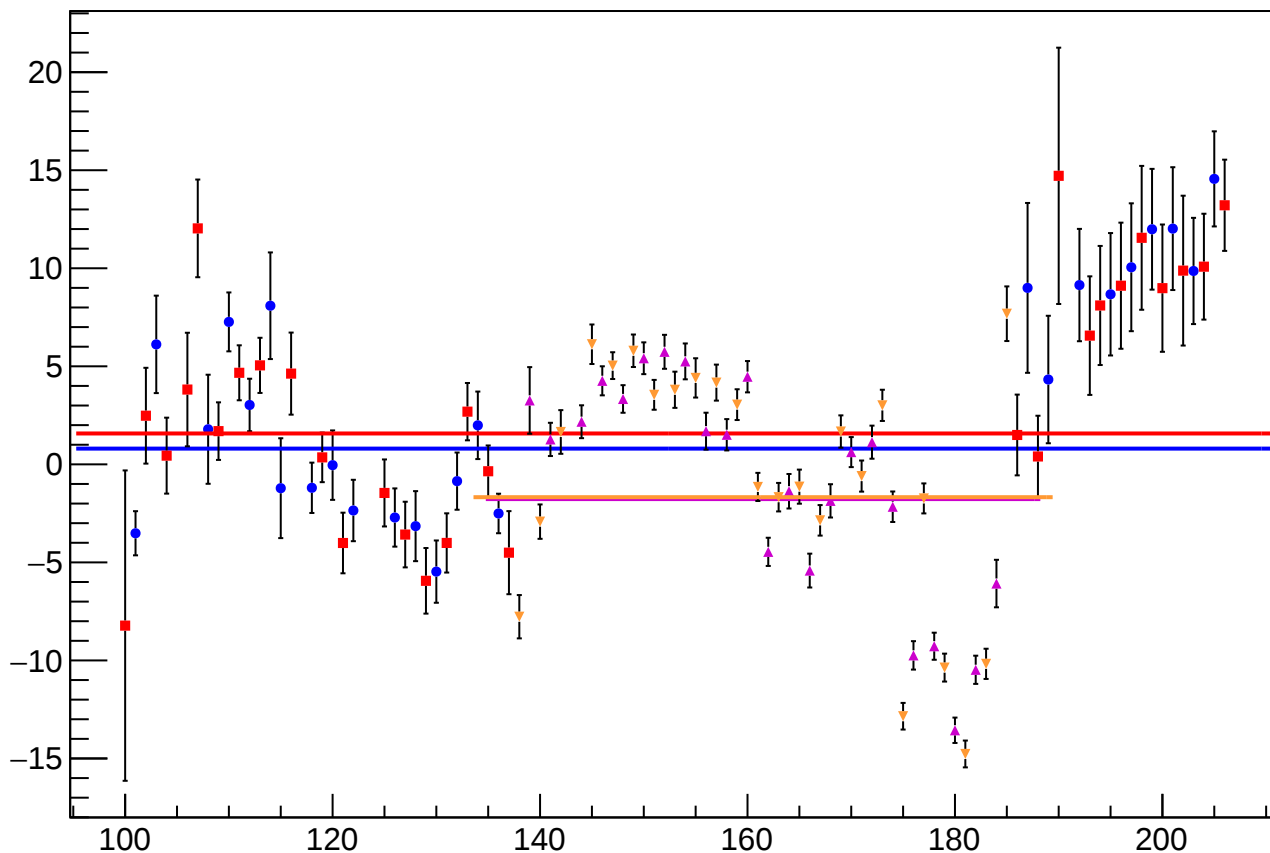
Right: -66.911 ± 0.280 $\chi^2/\text{NDF}: 5714.2/53$

In: -49.420 ± 0.172 $\chi^2/\text{NDF}: 5203.0/47$

Out: -51.368 ± 0.166 $\chi^2/\text{NDF}: 10487.0/52$

All: -50.425 ± 0.120 $\chi^2/\text{NDF}: 15756.3/100$

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.803 ± 0.362 $\chi^2/\text{NDF}: 190.9/24$

Left Out: -1.675 ± 0.167 $\chi^2/\text{NDF}: 1483.8/23$

Right Out: 1.575 ± 0.362 $\chi^2/\text{NDF}: 174.3/28$

Left In: -1.771 ± 0.169 $\chi^2/\text{NDF}: 1251.3/22$

Left: -1.723 ± 0.119 $\chi^2/\text{NDF}: 2735.2/46$

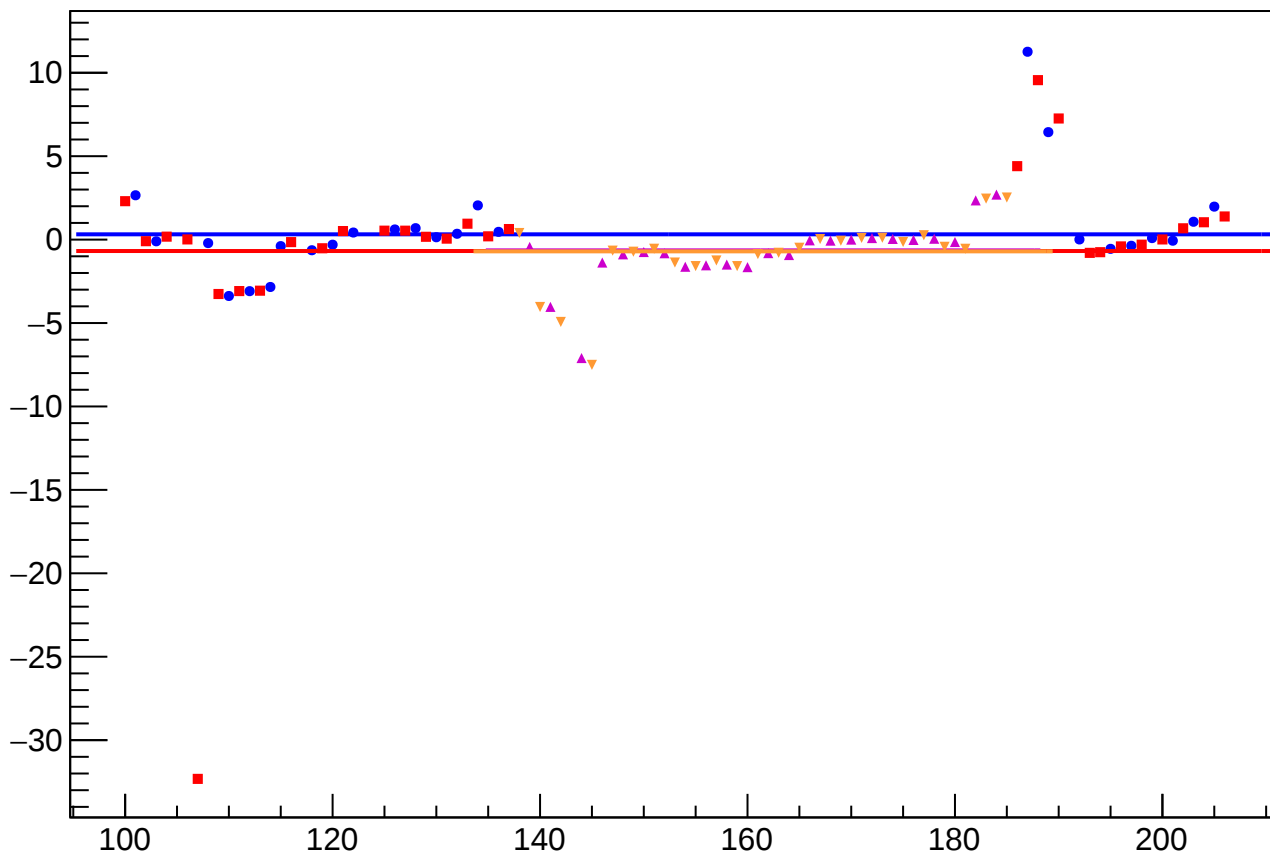
Right: 1.188 ± 0.256 $\chi^2/\text{NDF}: 367.4/53$

In: -1.310 ± 0.153 $\chi^2/\text{NDF}: 1483.7/47$

Out: -1.106 ± 0.152 $\chi^2/\text{NDF}: 1724.4/52$

All: -1.207 ± 0.108 $\chi^2/\text{NDF}: 3208.9/100$

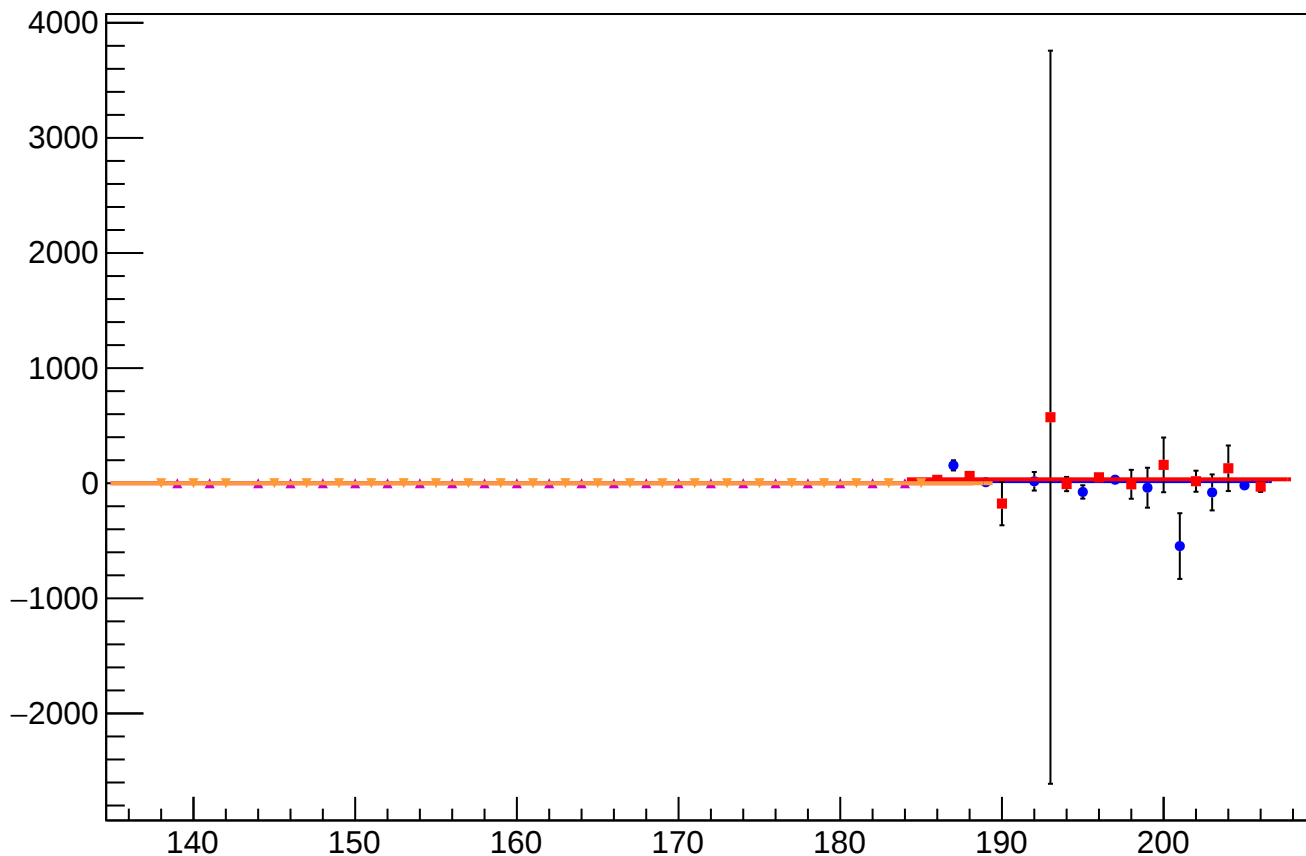
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.317 ± 0.018 $\chi^2/\text{NDF}: 9509.2/24$
 Left Out: -0.702 ± 0.008 $\chi^2/\text{NDF}: 53834.9/23$
 Right Out: -0.684 ± 0.018 $\chi^2/\text{NDF}: 93365.0/28$
 Left In: -0.644 ± 0.008 $\chi^2/\text{NDF}: 44169.2/22$

Left: -0.673 ± 0.005 $\chi^2/\text{NDF}: 98032.6/46$
 Right: -0.194 ± 0.013 $\chi^2/\text{NDF}: 104383.2/53$
 In: -0.502 ± 0.007 $\chi^2/\text{NDF}: 56000.9/47$
 Out: -0.699 ± 0.007 $\chi^2/\text{NDF}: 147200.7/52$
 All: -0.601 ± 0.005 $\chi^2/\text{NDF}: 203592.2/100$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 18.511+/-16.892 χ^2/NDF : 17.7/8

Left Out: -0.037+/-0.018 χ^2/NDF : 35.4/23

Right Out: 33.992+/-9.677 χ^2/NDF : 6.6/10

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.024+/-0.013 χ^2/NDF : 71.7/46

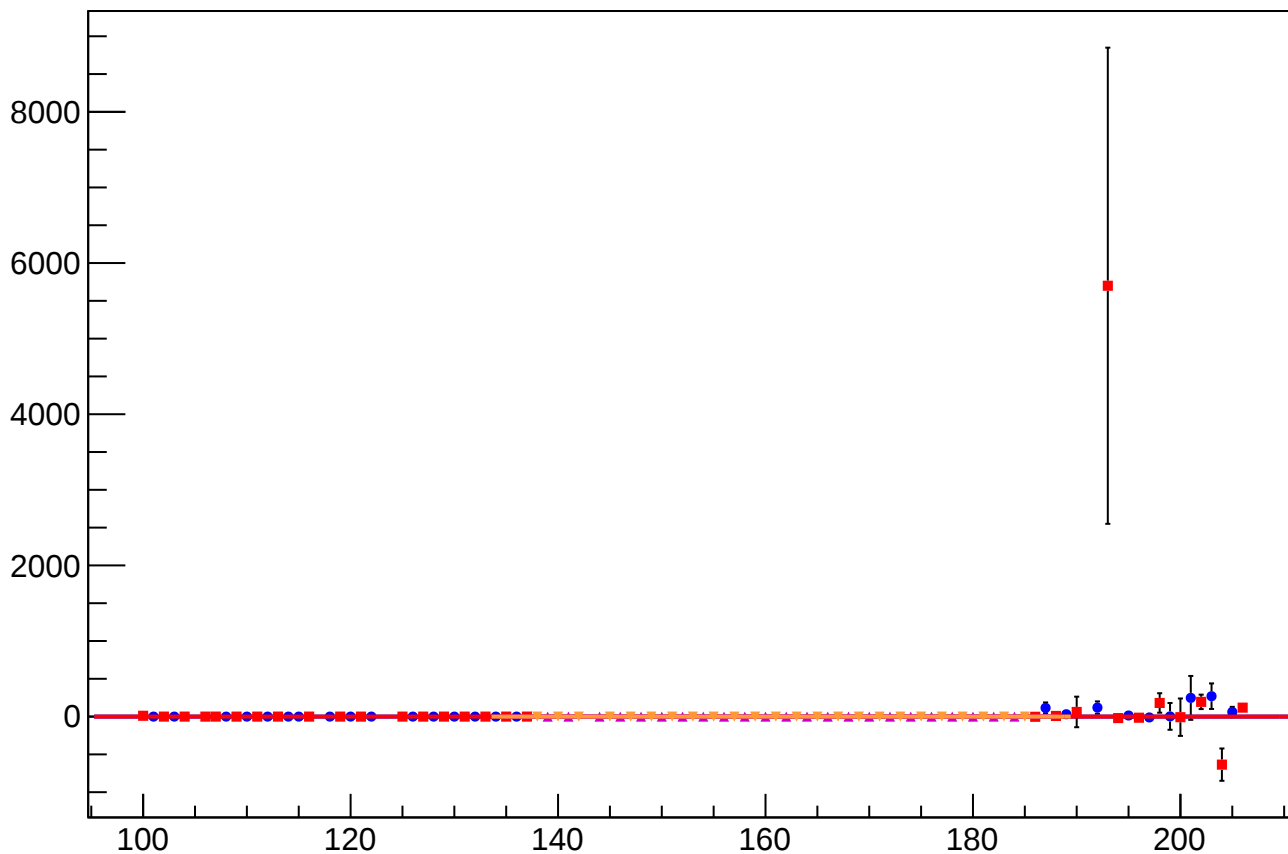
Right: 30.167+/-8.396 χ^2/NDF : 24.9/19

In: -0.010+/-0.018 χ^2/NDF : 54.0/31

Out: -0.037+/-0.018 χ^2/NDF : 54.4/34

All: -0.024+/-0.013 χ^2/NDF : 109.5/66

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 $\chi^2/\text{NDF}: 21.9/24$

Left Out: -0.073 ± 0.014 $\chi^2/\text{NDF}: 27.8/23$

Right Out: -0.088 ± 0.025 $\chi^2/\text{NDF}: 34.8/28$

Left In: -0.064 ± 0.014 $\chi^2/\text{NDF}: 41.1/22$

Left: -0.068 ± 0.010 $\chi^2/\text{NDF}: 69.1/46$

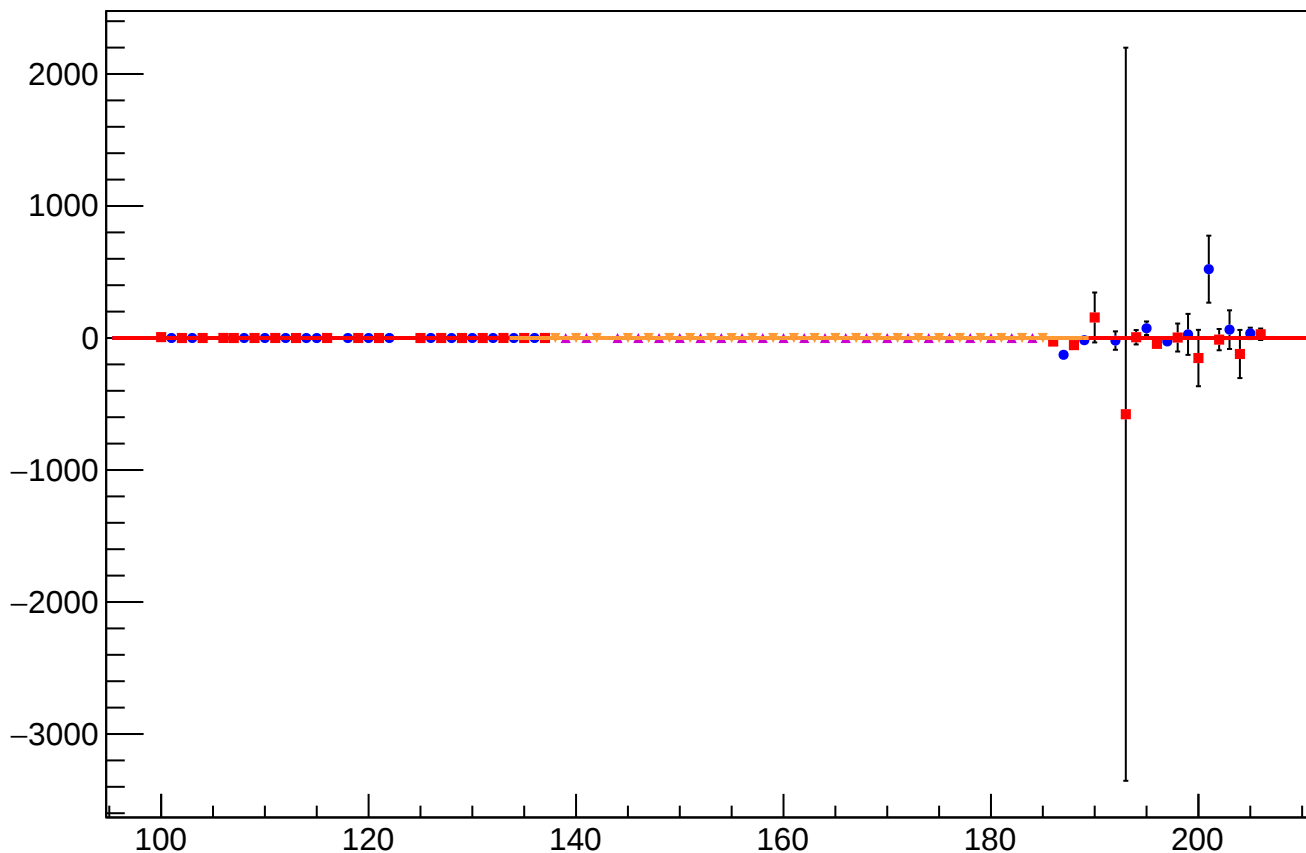
Right: -0.048 ± 0.017 $\chi^2/\text{NDF}: 61.4/53$

In: -0.050 ± 0.012 $\chi^2/\text{NDF}: 66.3/47$

Out: -0.076 ± 0.012 $\chi^2/\text{NDF}: 62.9/52$

All: -0.063 ± 0.009 $\chi^2/\text{NDF}: 131.5/100$

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 29.8/24

Left Out: 0.035+/-0.018 χ^2/NDF :32.2/23

Right Out: 0.031+/-0.045 χ^2/NDF : 30.7/28

Left In: -0.009+/-0.018 χ^2/NDF :36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.0/46

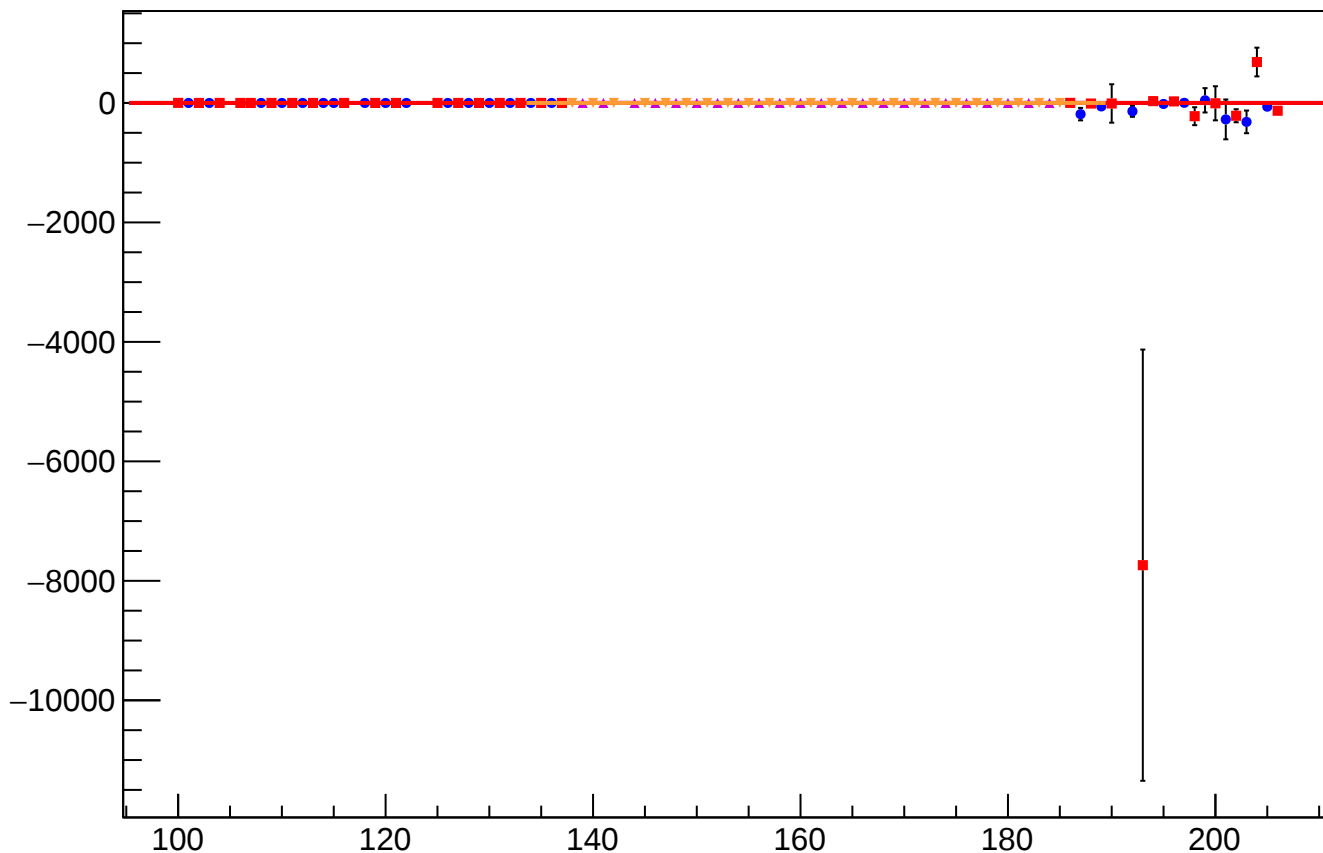
Right: 0.023+/-0.031 χ^2/NDF : 60.5/53

In: -0.005+/-0.017 χ^2/NDF :66.9/47

Out: 0.035+/-0.017 χ^2/NDF :62.9/52

All: 0.015+/-0.012 χ^2/NDF : 132.6/100

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.027 χ^2/NDF : 22.8/24

Left Out: 0.086+/-0.016 χ^2/NDF : 27.7/23

Right Out: 0.105+/-0.029 χ^2/NDF : 30.7/28

Left In: 0.070+/-0.016 χ^2/NDF : 44.8/22

Left: 0.078+/-0.011 χ^2/NDF : 73.1/46

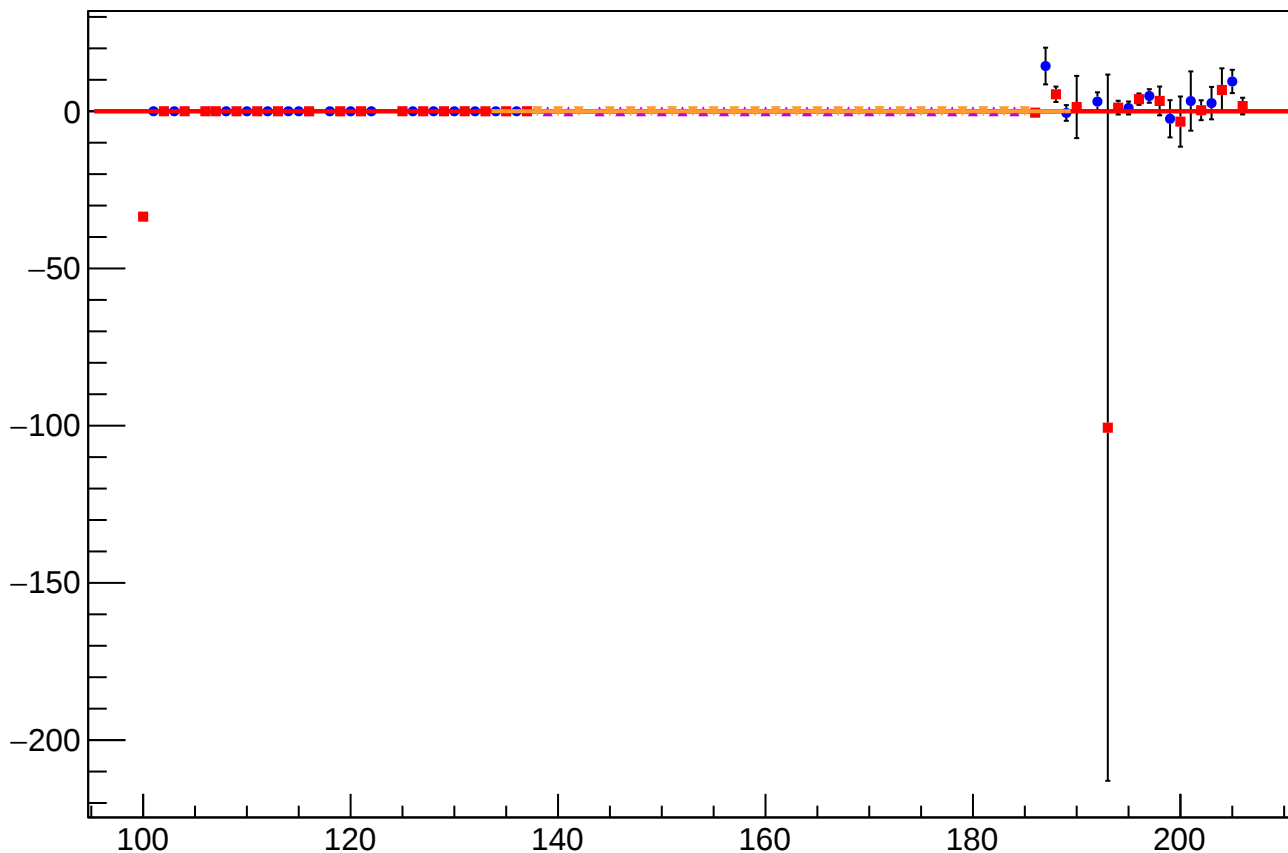
Right: 0.054+/-0.020 χ^2/NDF : 59.6/53

In: 0.053+/-0.014 χ^2/NDF : 71.4/47

Out: 0.091+/-0.014 χ^2/NDF : 58.8/52

All: 0.072+/-0.010 χ^2/NDF : 133.7/100

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 $\chi^2/\text{NDF}: 41.2/24$

Left Out: 0.000 ± 0.001 $\chi^2/\text{NDF}: 23.6/23$

Right Out: -0.006 ± 0.001 $\chi^2/\text{NDF}: 26521.6/28$

Left In: 0.000 ± 0.001 $\chi^2/\text{NDF}: 22.3/22$

Left: 0.000 ± 0.001 $\chi^2/\text{NDF}: 45.9/46$

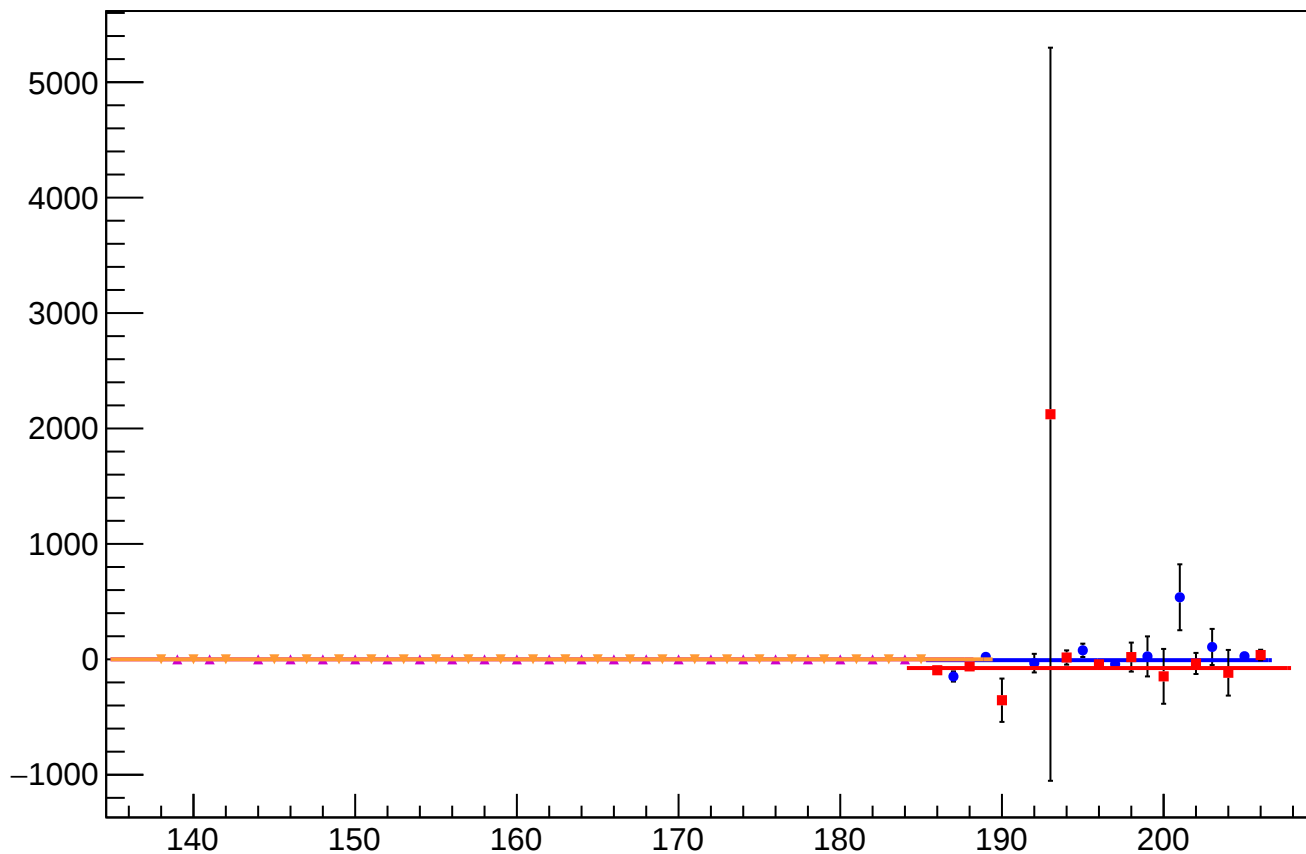
Right: -0.006 ± 0.001 $\chi^2/\text{NDF}: 26562.8/53$

In: -0.001 ± 0.001 $\chi^2/\text{NDF}: 75.2/47$

Out: -0.001 ± 0.001 $\chi^2/\text{NDF}: 26560.3/52$

All: -0.001 ± 0.000 $\chi^2/\text{NDF}: 26635.5/100$

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.167 ± 16.885 $\chi^2/\text{NDF}: 19.2/8$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -75.556 ± 9.679 $\chi^2/\text{NDF}: 15.3/10$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

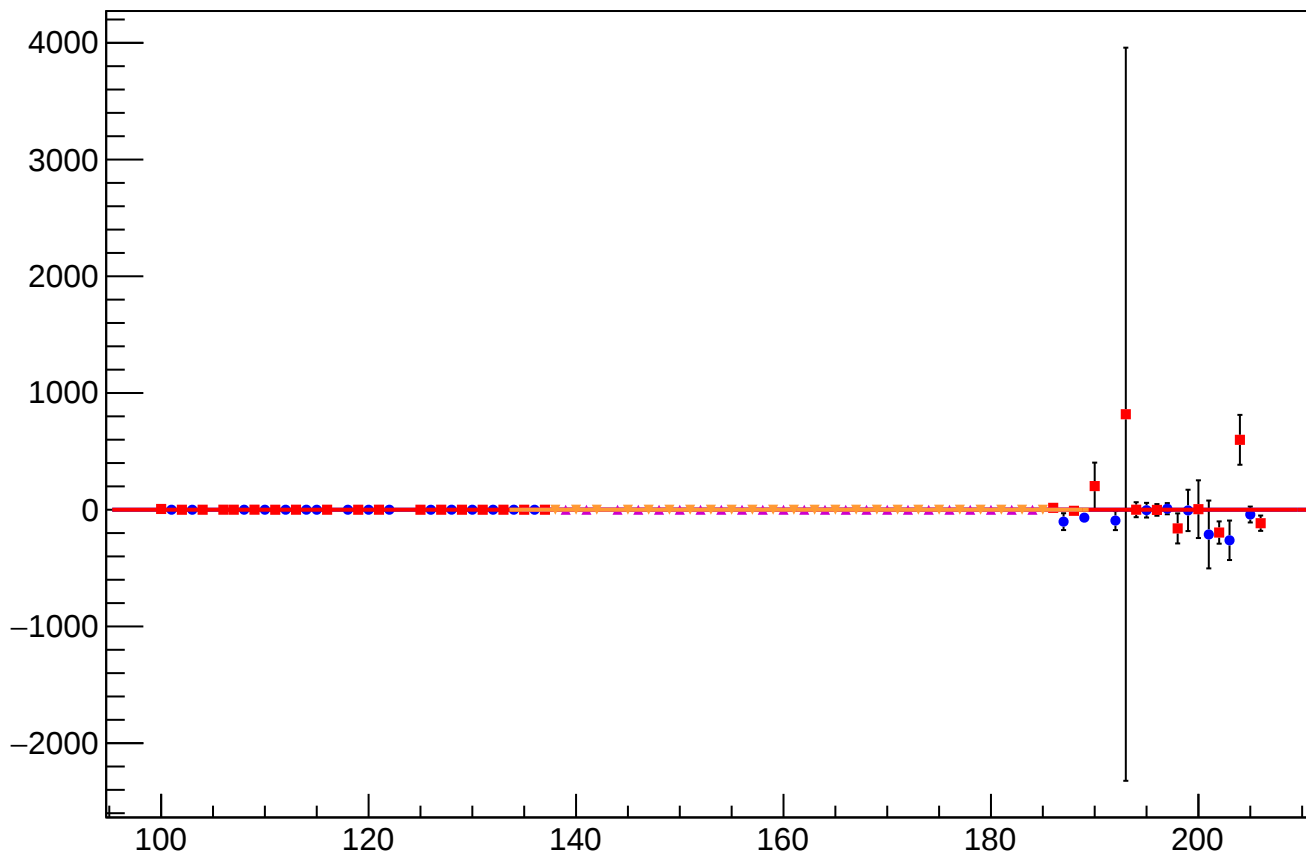
Right: -58.641 ± 8.397 $\chi^2/\text{NDF}: 46.8/19$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 54.4/31$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 113.5/34$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 170.9/66$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 36.3/24

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 47.7/28

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

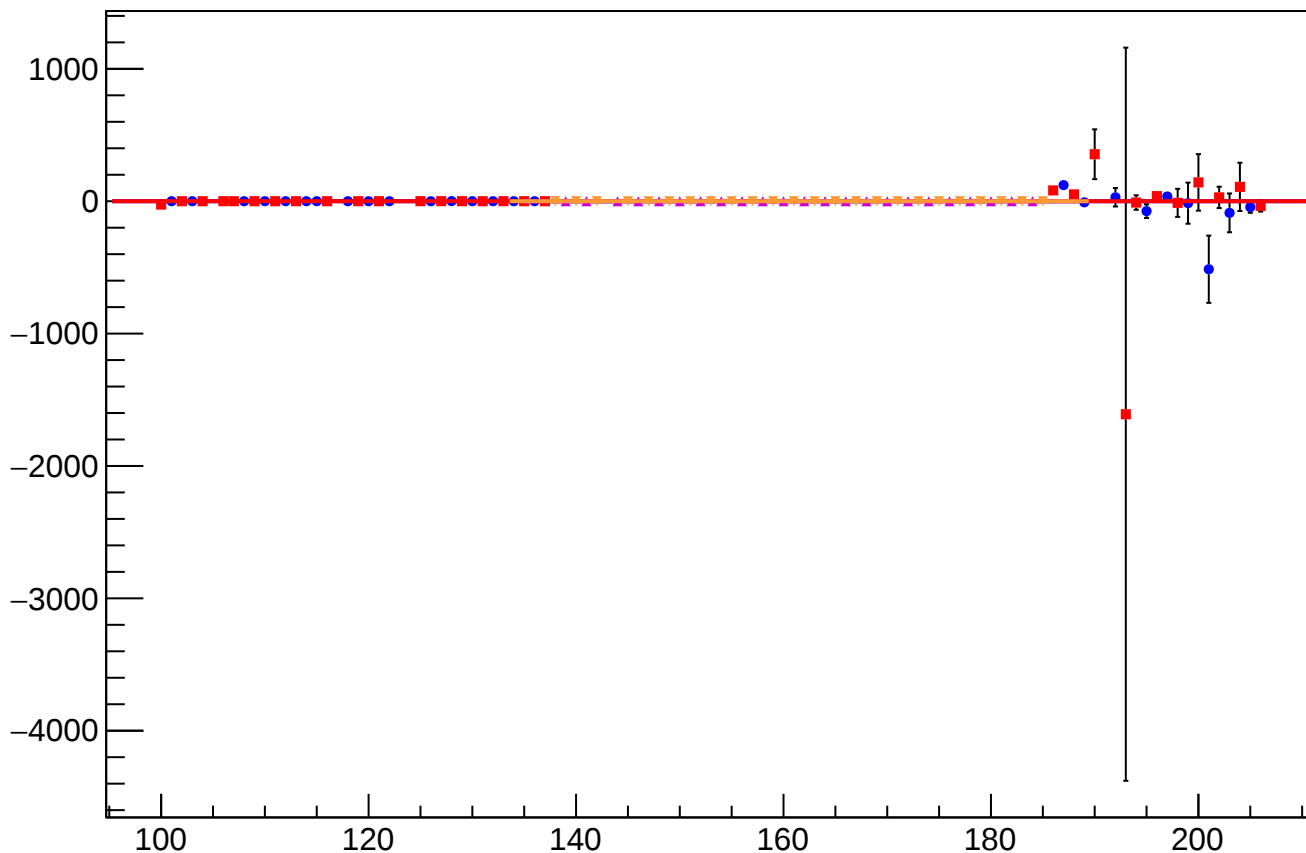
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 84.8/53

In: 0.006 $\pm$ 0.012 χ^2 /NDF:85.9/47

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:80.1/52

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 166.0/100

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 50.0/24

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 108.6/28

Left In: 0.020 $\pm$ 0.018 χ^2 /NDF:35.8/22

Left: 0.034 $\pm$ 0.013 χ^2 /NDF: 72.4/46

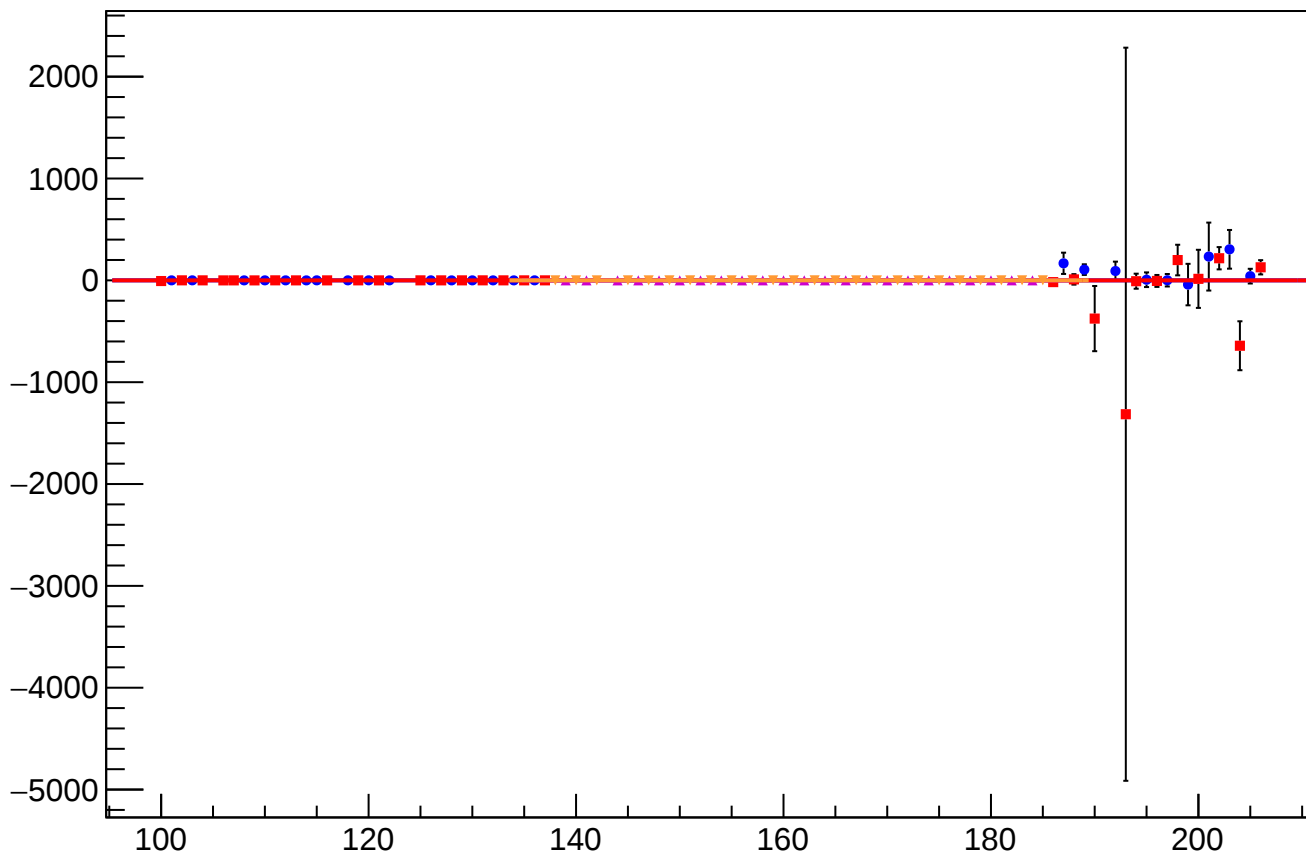
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 159.1/53

In: 0.040 $\pm$ 0.017 χ^2 /NDF:94.5/47

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:153.5/52

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 249.4/100

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 35.7/24

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 44.6/28

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

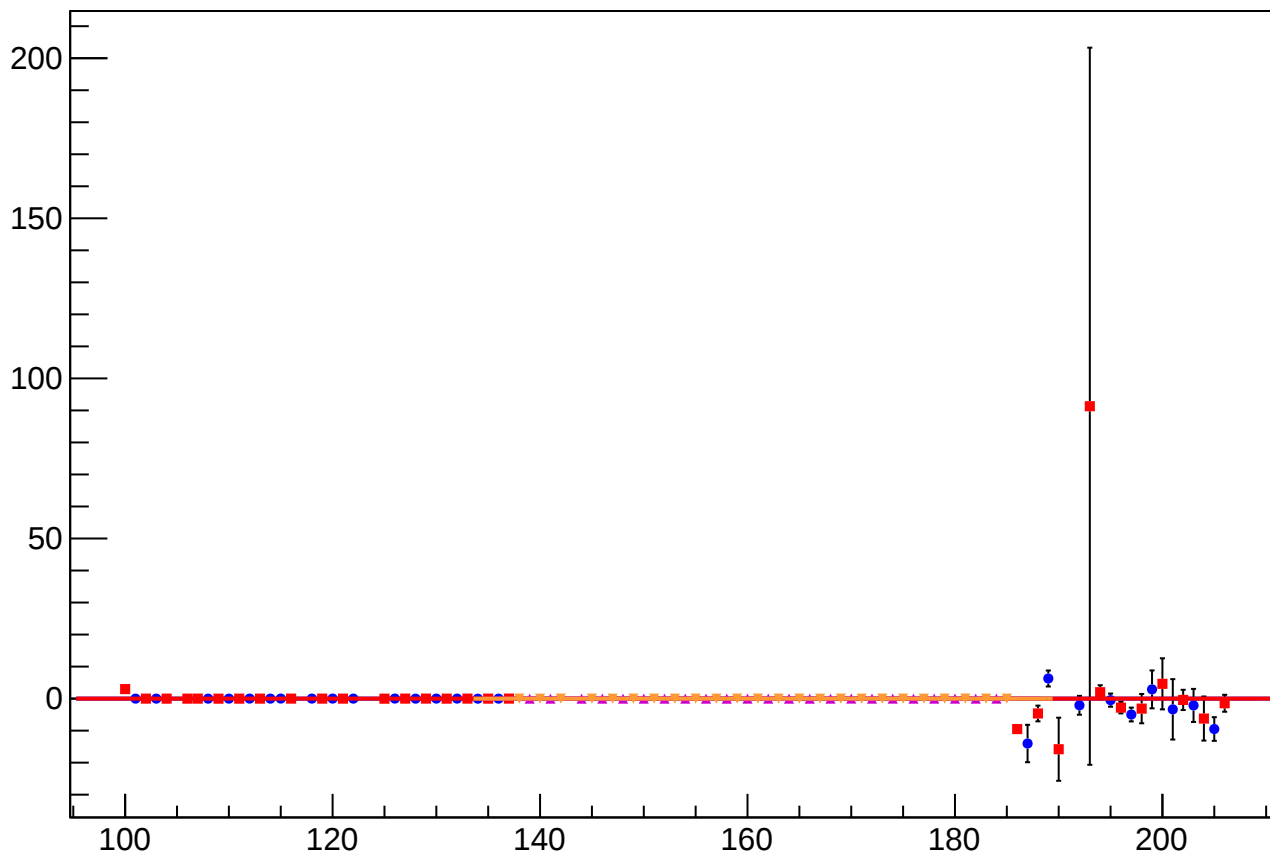
Right: -0.027 ± 0.020 χ^2/NDF : 81.2/53

In: 0.002 ± 0.014 χ^2/NDF : 86.1/47

Out: 0.005 ± 0.014 χ^2/NDF : 82.2/52

All: 0.004 ± 0.010 χ^2/NDF : 168.3/100

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001 χ^2/NDF : 52.5/24

Left Out: -0.008+/-0.001 χ^2/NDF : 32.0/23

Right Out: -0.006+/-0.001 χ^2/NDF : 214.9/28

Left In: -0.009+/-0.001 χ^2/NDF : 37.2/22

Left: -0.008+/-0.001 χ^2/NDF : 69.4/46

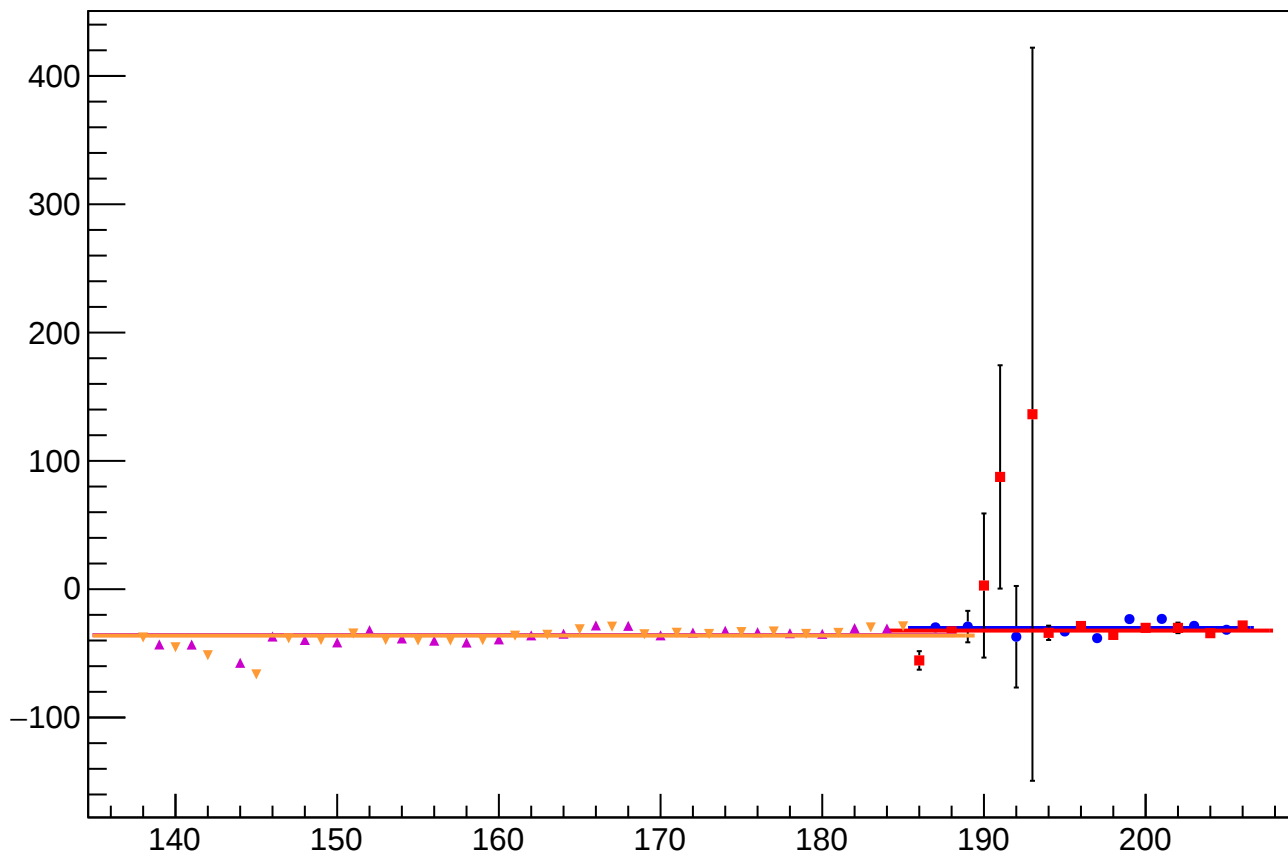
Right: -0.006+/-0.001 χ^2/NDF : 267.4/53

In: -0.008+/-0.001 χ^2/NDF : 92.3/47

Out: -0.008+/-0.001 χ^2/NDF : 248.9/52

All: -0.008+/-0.000 χ^2/NDF : 341.4/100

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



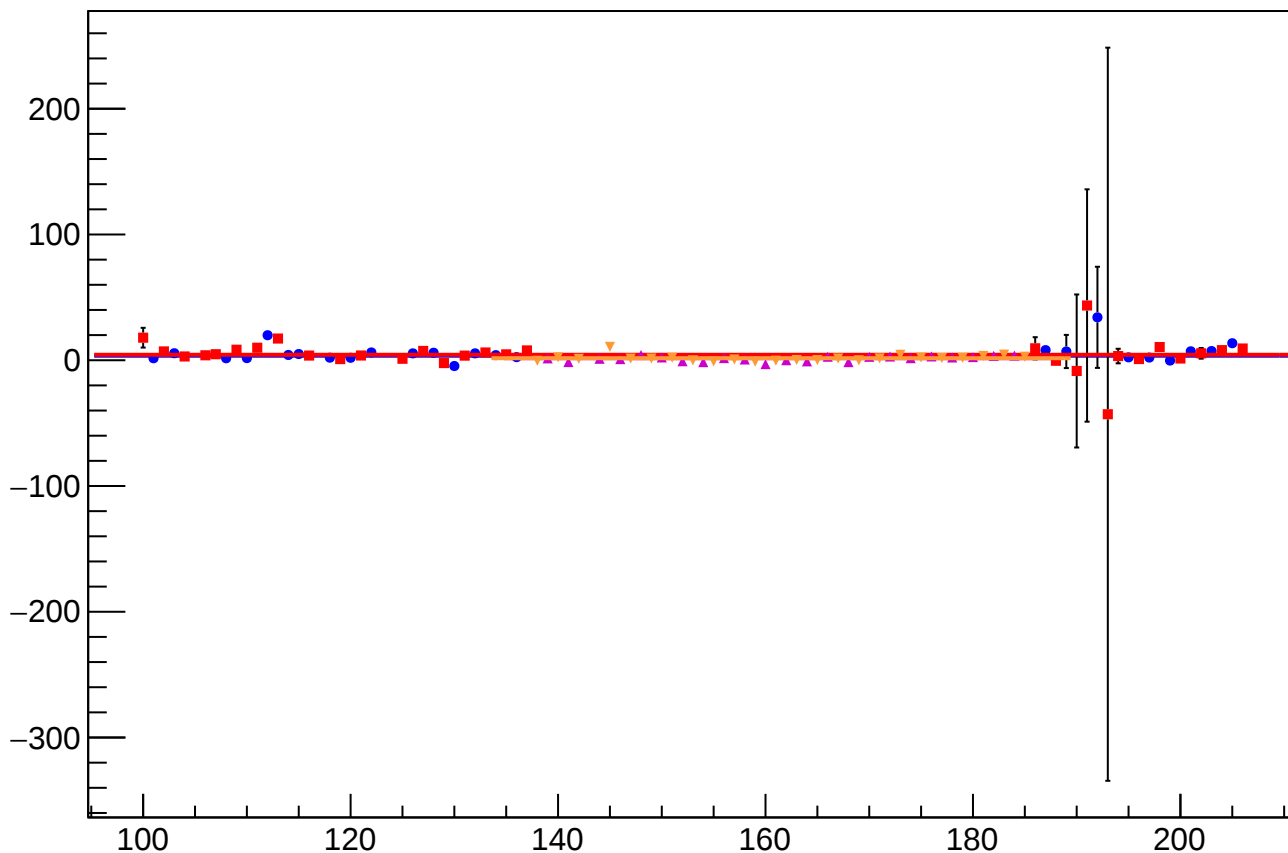
Right In: -30.262 ± 0.924 $\chi^2/\text{NDF}: 20.0/8$
 Left Out: -36.120 ± 0.192 $\chi^2/\text{NDF}: 1114.9/23$
 Right Out: -32.254 ± 0.808 $\chi^2/\text{NDF}: 20.7/11$
 Left In: -35.779 ± 0.191 $\chi^2/\text{NDF}: 854.1/22$

Left: -35.949 ± 0.136 $\chi^2/\text{NDF}: 1970.6/46$
 Right: -31.390 ± 0.608 $\chi^2/\text{NDF}: 43.4/20$

In: -35.552 ± 0.187 $\chi^2/\text{NDF}: 908.3/31$
 Out: -35.914 ± 0.187 $\chi^2/\text{NDF}: 1157.3/35$

All: -35.734 ± 0.132 $\chi^2/\text{NDF}: 2067.5/67$

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.617 ± 0.217 $\chi^2/\text{NDF}: 455.4/24$

Left Out: 1.634 ± 0.148 $\chi^2/\text{NDF}: 166.5/23$

Right Out: 4.349 ± 0.221 $\chi^2/\text{NDF}: 369.0/29$

Left In: 1.641 ± 0.150 $\chi^2/\text{NDF}: 163.2/22$

Left: 1.638 ± 0.105 $\chi^2/\text{NDF}: 329.7/46$

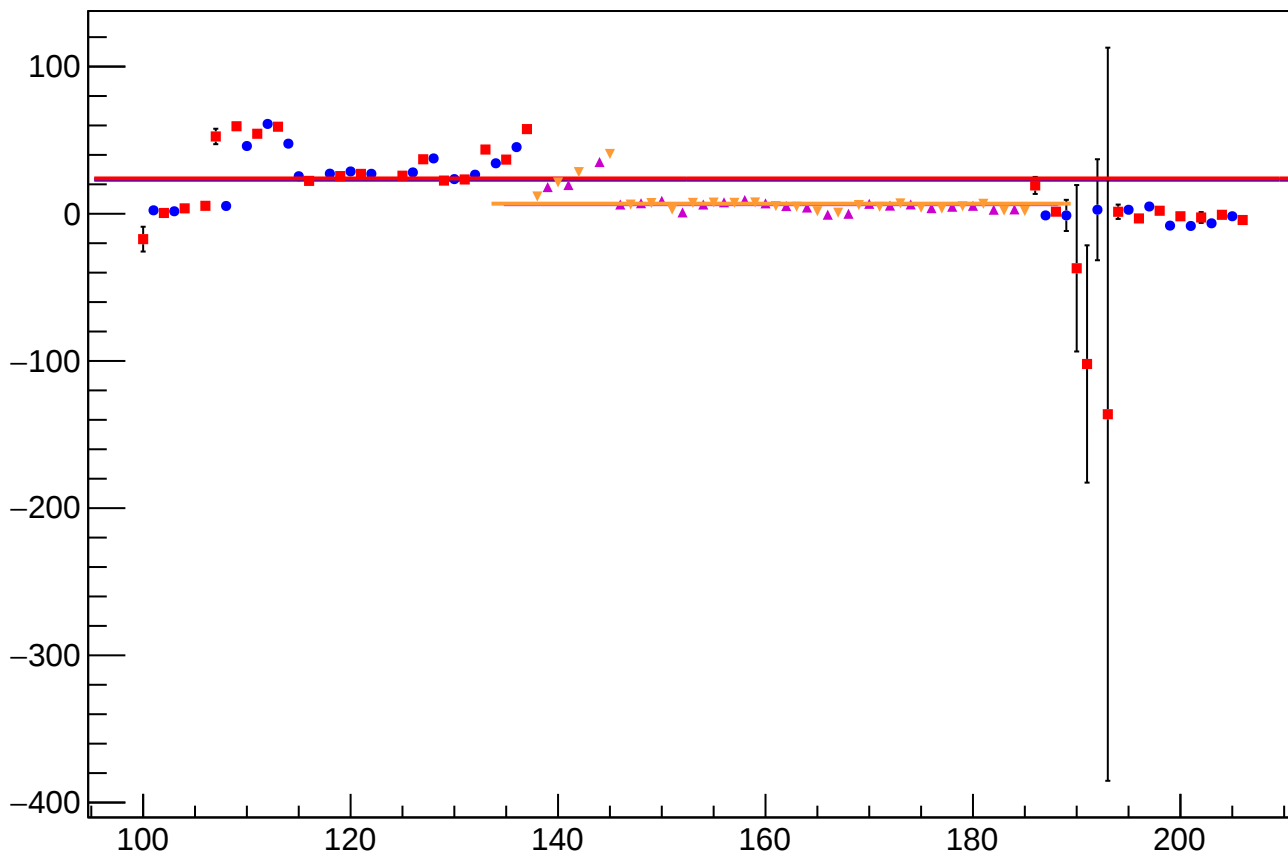
Right: 3.977 ± 0.155 $\chi^2/\text{NDF}: 830.0/54$

In: 2.277 ± 0.123 $\chi^2/\text{NDF}: 674.8/47$

Out: 2.475 ± 0.123 $\chi^2/\text{NDF}: 640.0/53$

All: 2.376 ± 0.087 $\chi^2/\text{NDF}: 1316.2/101$

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 23.180 $\pm$ 0.375 χ^2 /NDF: 2628.8/24

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 23.981 $\pm$ 0.362 χ^2 /NDF: 3283.7/29

Left In: 6.537 $\pm$ 0.190 χ^2 /NDF:1025.1/22

Left: 6.700 $\pm$ 0.135 χ^2 /NDF: 2322.3/46

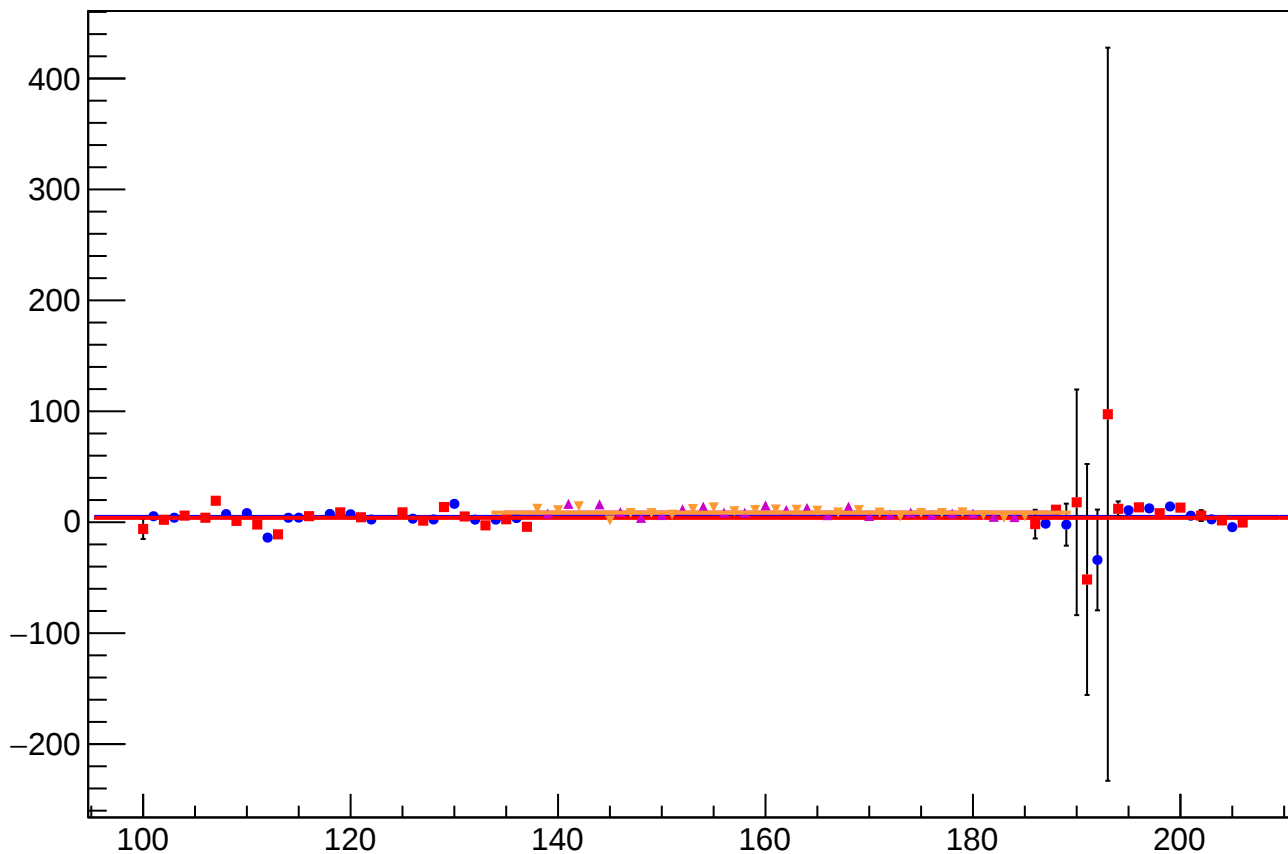
Right: 23.595 $\pm$ 0.260 χ^2 /NDF: 5914.8/54

In: 9.943 $\pm$ 0.170 χ^2 /NDF:5218.0/47

Out: 10.607 $\pm$ 0.169 χ^2 /NDF:6327.5/53

All: 10.276 $\pm$ 0.120 χ^2 /NDF: 11553.2/101

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.786 $\pm$ 0.251 χ^2 /NDF: 569.9/24

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF: 241.0/23

Right Out: 3.937 $\pm$ 0.254 χ^2 /NDF: 589.1/29

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF: 436.7/22

Left: 8.681 $\pm$ 0.120 χ^2 /NDF: 677.7/46

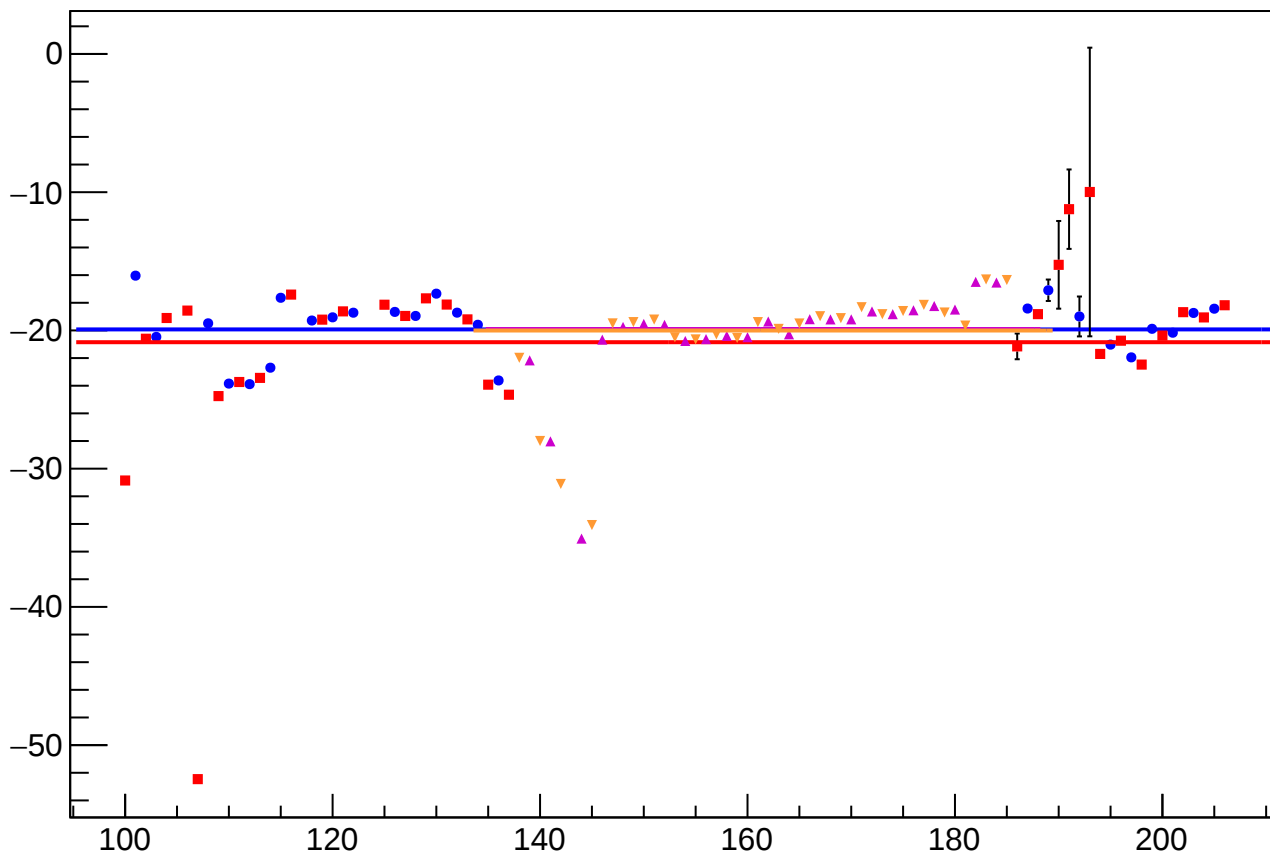
Right: 4.368 $\pm$ 0.178 χ^2 /NDF: 1164.6/54

In: 7.443 $\pm$ 0.141 χ^2 /NDF: 1170.9/47

Out: 7.238 $\pm$ 0.141 χ^2 /NDF: 1072.8/53

All: 7.340 $\pm$ 0.100 χ^2 /NDF: 2244.7/101

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.926+/-0.015 χ^2/NDF : 26596.1/24

Left Out: -20.006+/-0.008 χ^2/NDF : 171763.9/23

Right Out: -20.852+/-0.015 χ^2/NDF : 95238.2/29

Left In: -19.898+/-0.008 χ^2/NDF : 144191.9/22

Left: -19.951+/-0.006 χ^2/NDF : 316049.4/46

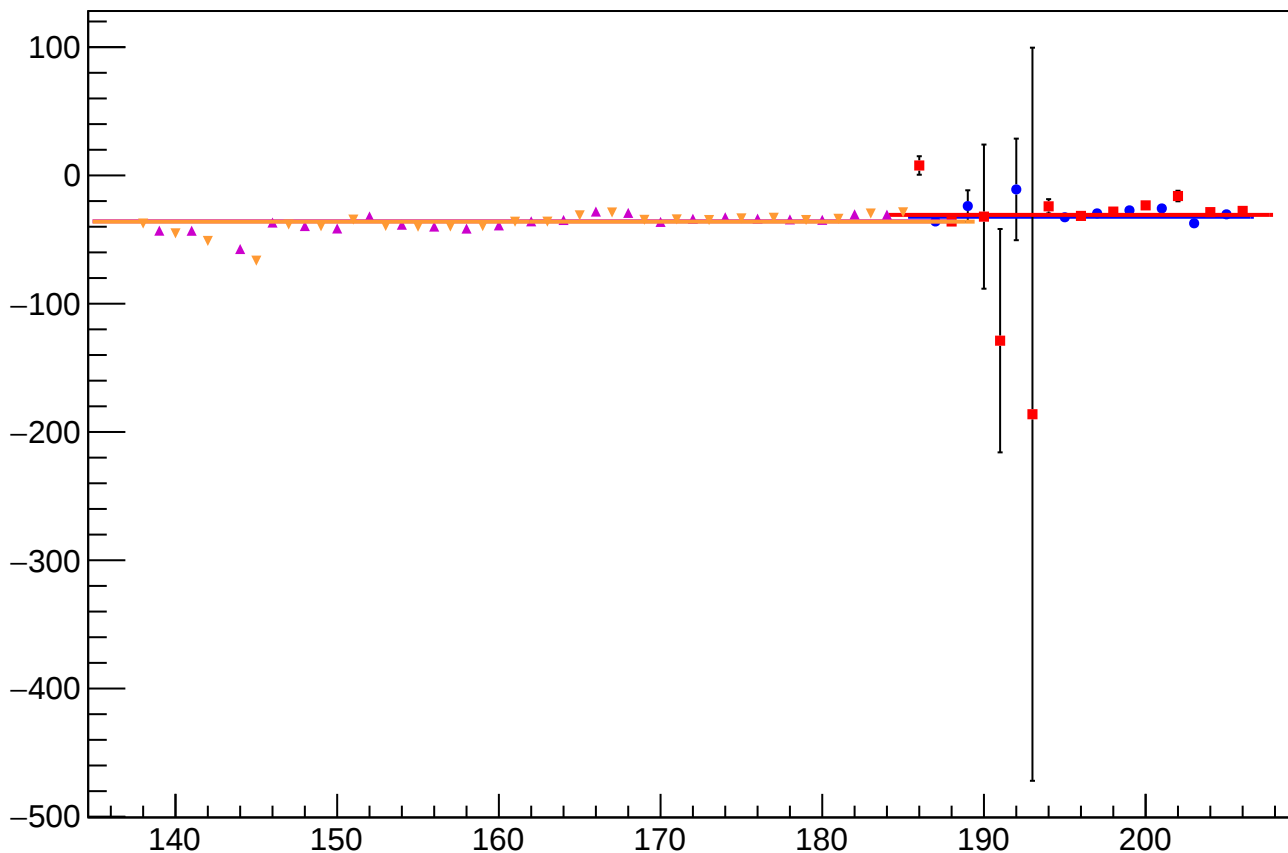
Right: -20.389+/-0.011 χ^2/NDF : 123755.7/54

In: -19.904+/-0.007 χ^2/NDF : 170790.8/47

Out: -20.190+/-0.007 χ^2/NDF : 269511.5/53

All: -20.047+/-0.005 χ^2/NDF : 441148.0/101

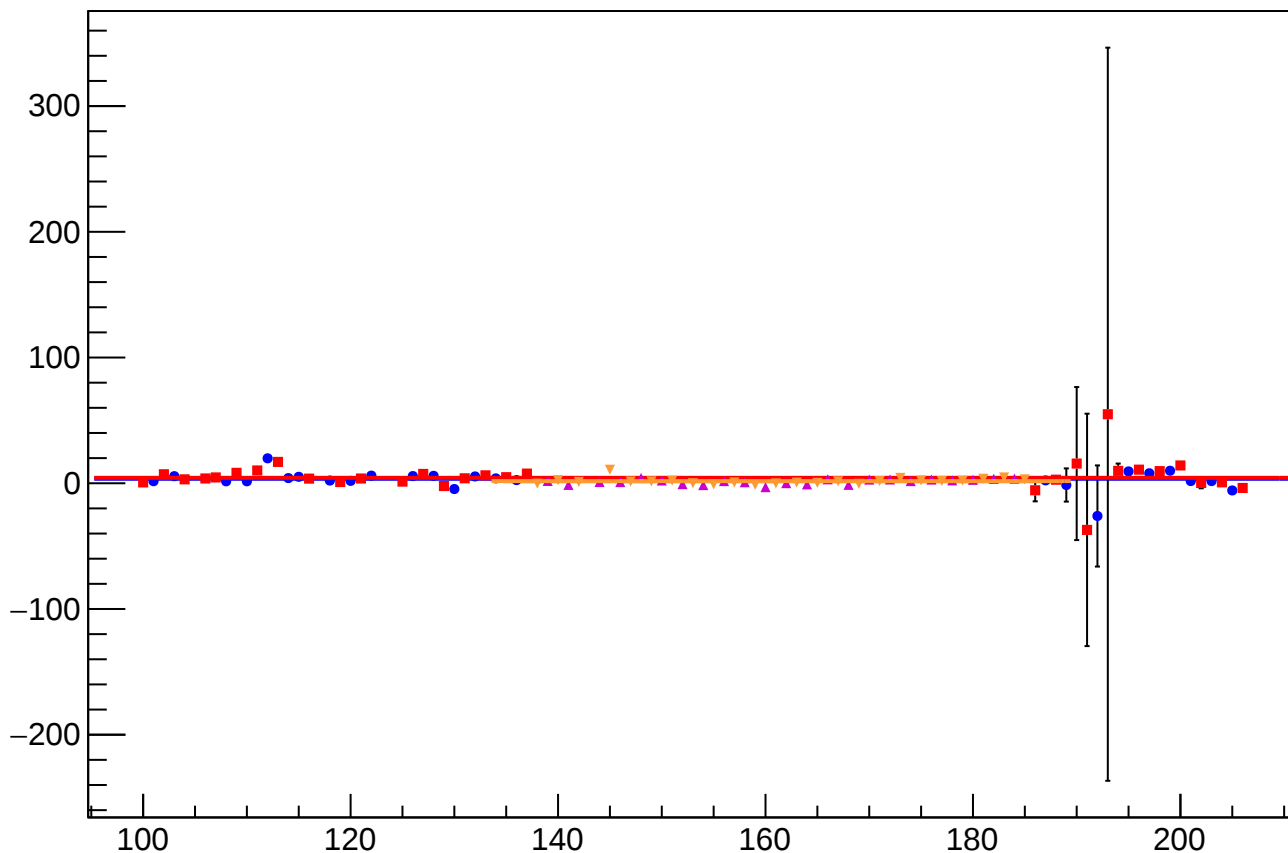
reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.216 ± 0.927 $\chi^2/\text{NDF}: 17.2/8$
 Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -30.756 ± 0.811 $\chi^2/\text{NDF}: 71.9/11$
 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: -31.389 ± 0.610 $\chi^2/\text{NDF}: 90.5/20$
 In: -35.621 ± 0.187 $\chi^2/\text{NDF}: 873.8/31$
 Out: -35.751 ± 0.187 $\chi^2/\text{NDF}: 1233.3/35$
 All: -35.686 ± 0.132 $\chi^2/\text{NDF}: 2107.4/67$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.577 $\pm$ 0.217 χ^2 /NDF: 455.5/24

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF: 168.2/23

Right Out: 4.321 $\pm$ 0.217 χ^2 /NDF: 378.2/29

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

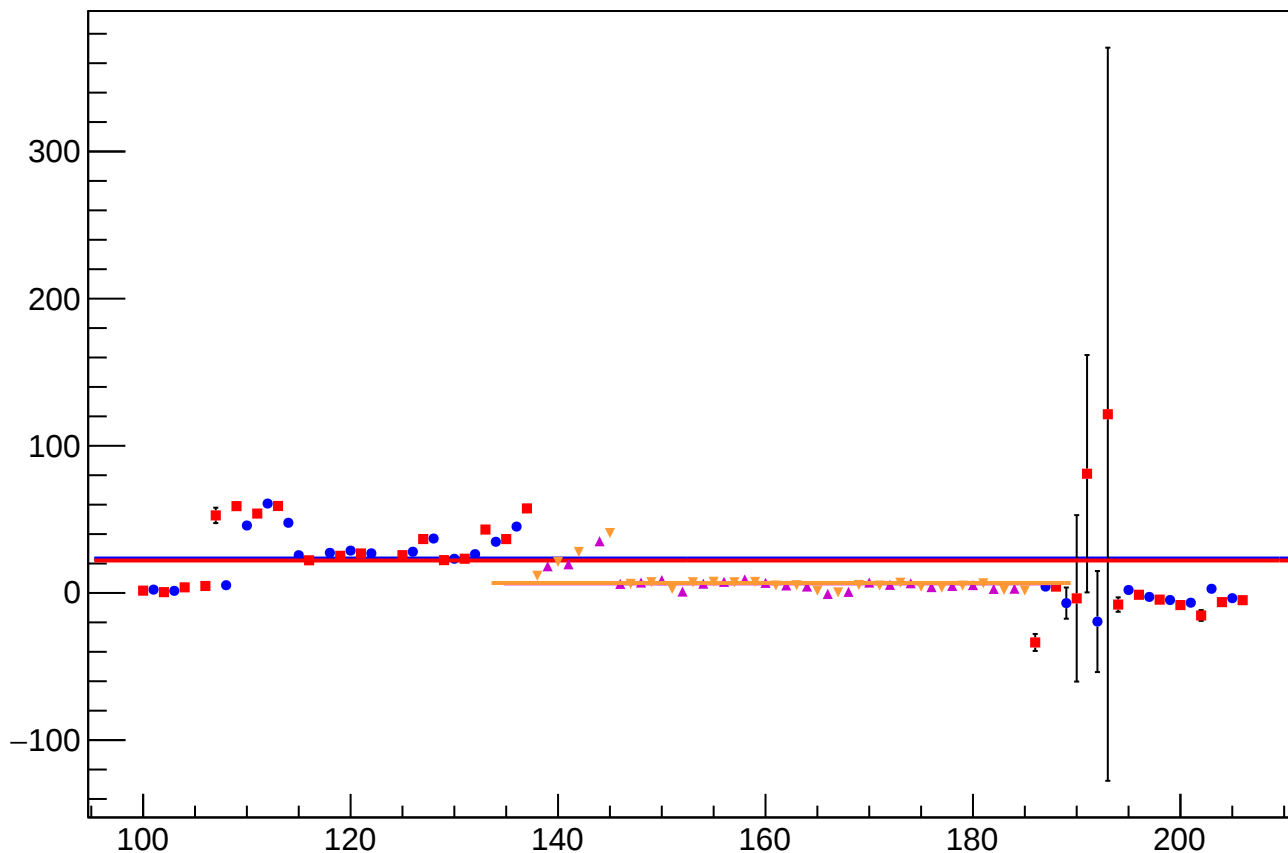
Right: 3.949 $\pm$ 0.153 χ^2 /NDF: 839.6/54

In: 2.307 $\pm$ 0.123 χ^2 /NDF: 669.0/47

Out: 2.546 $\pm$ 0.122 χ^2 /NDF: 644.3/53

All: 2.427 $\pm$ 0.087 χ^2 /NDF: 1315.2/101

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 23.393 $\pm$ 0.375 χ^2 /NDF: 2493.9/24

Left Out: 6.779 $\pm$ 0.191 χ^2 /NDF:1297.7/23

Right Out: 22.063 $\pm$ 0.349 χ^2 /NDF: 3659.2/29

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

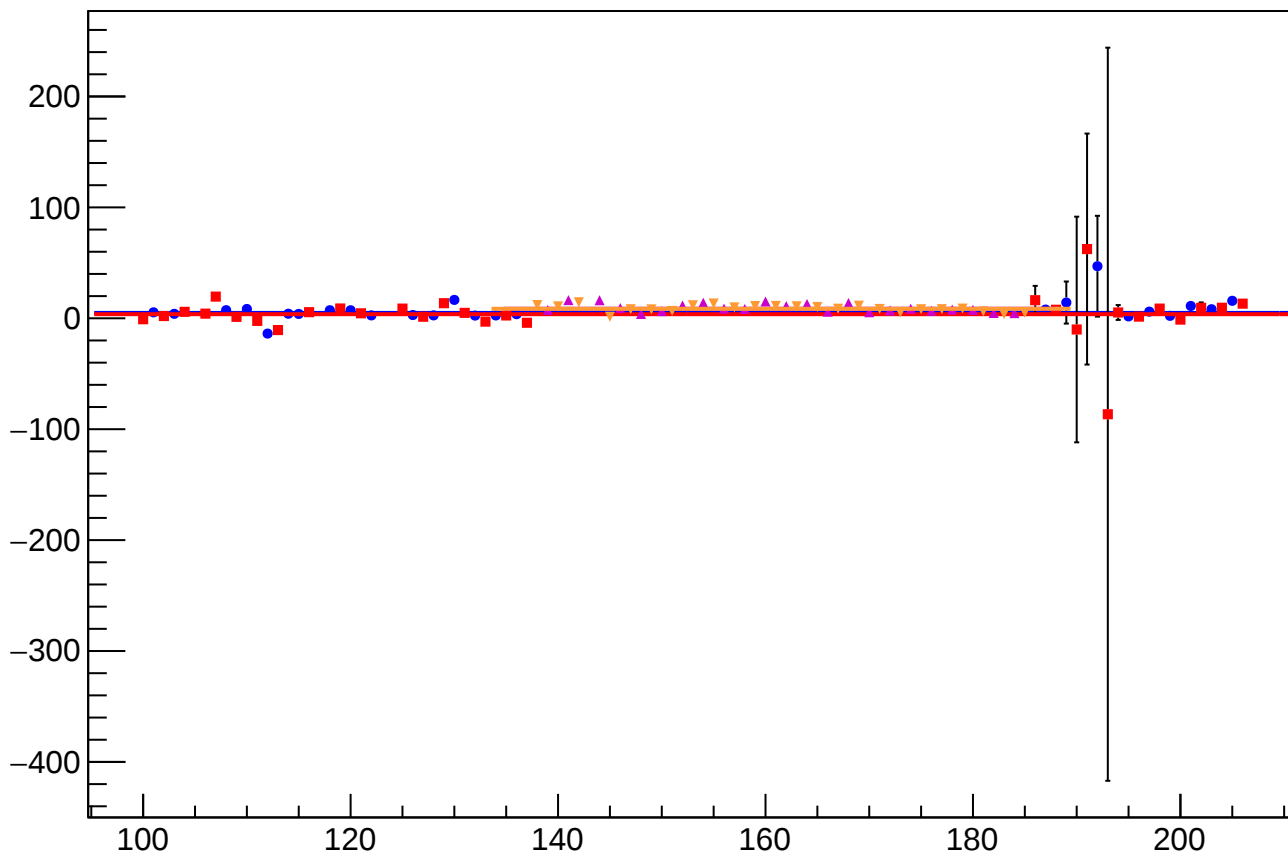
Right: 22.680 $\pm$ 0.256 χ^2 /NDF: 6159.8/54

In: 9.979 $\pm$ 0.170 χ^2 /NDF:5117.5/47

Out: 10.309 $\pm$ 0.168 χ^2 /NDF:6431.2/53

All: 10.146 $\pm$ 0.119 χ^2 /NDF: 11550.6/101

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.837 $\pm$ 0.250 χ^2 /NDF: 558.6/24

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF:245.5/23

Right Out: 3.697 $\pm$ 0.250 χ^2 /NDF: 588.9/29

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

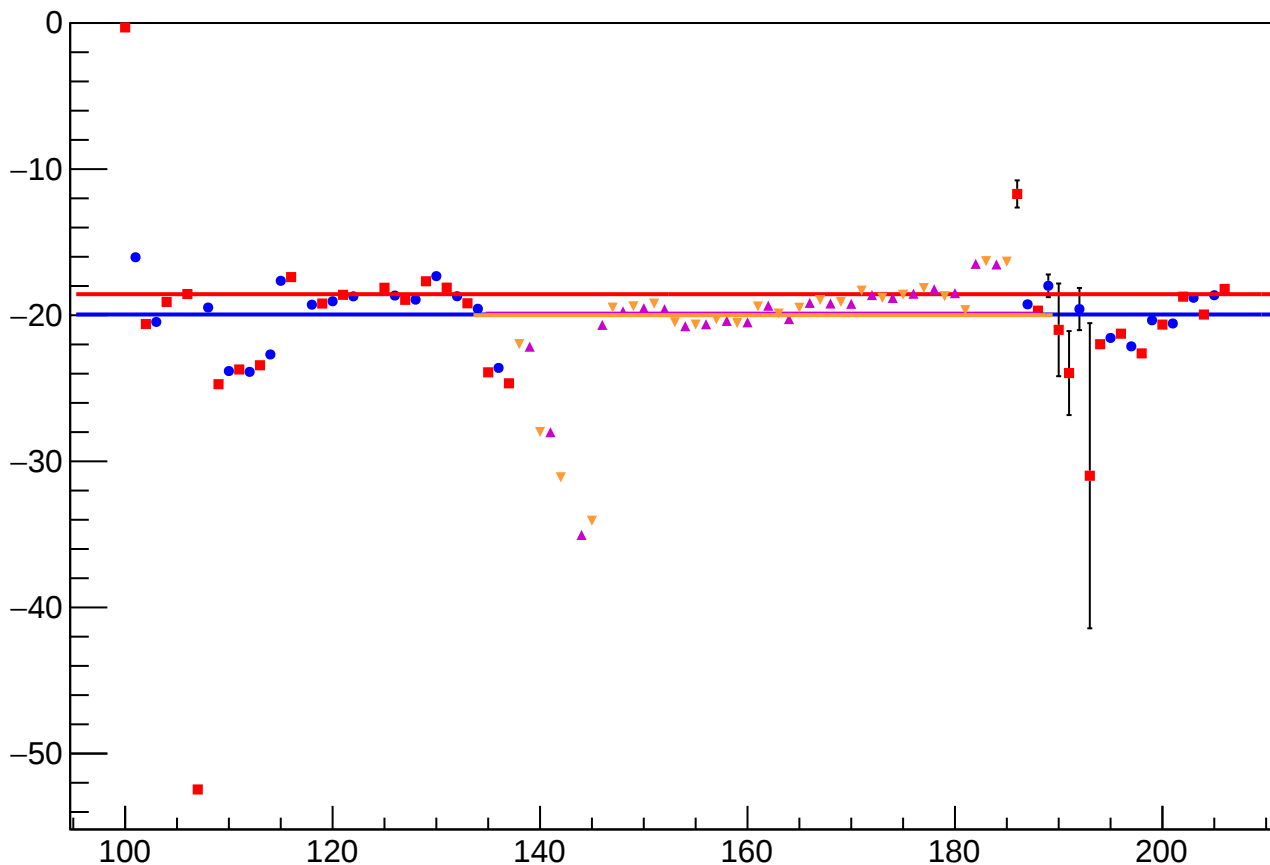
Right: 4.267 $\pm$ 0.177 χ^2 /NDF: 1157.9/54

In: 7.402 $\pm$ 0.141 χ^2 /NDF:1153.6/47

Out: 7.055 $\pm$ 0.140 χ^2 /NDF:1096.7/53

All: 7.228 $\pm$ 0.099 χ^2 /NDF: 2253.4/101

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.949 ± 0.015 χ^2/NDF : 26731.0/24

Left Out: -19.998 ± 0.008 χ^2/NDF : 171944.6/23

Right Out: -18.559 ± 0.014 χ^2/NDF : 303724.1/29

Left In: -19.890 ± 0.008 χ^2/NDF : 144055.2/22

Left: -19.944 ± 0.006 χ^2/NDF : 316093.4/46

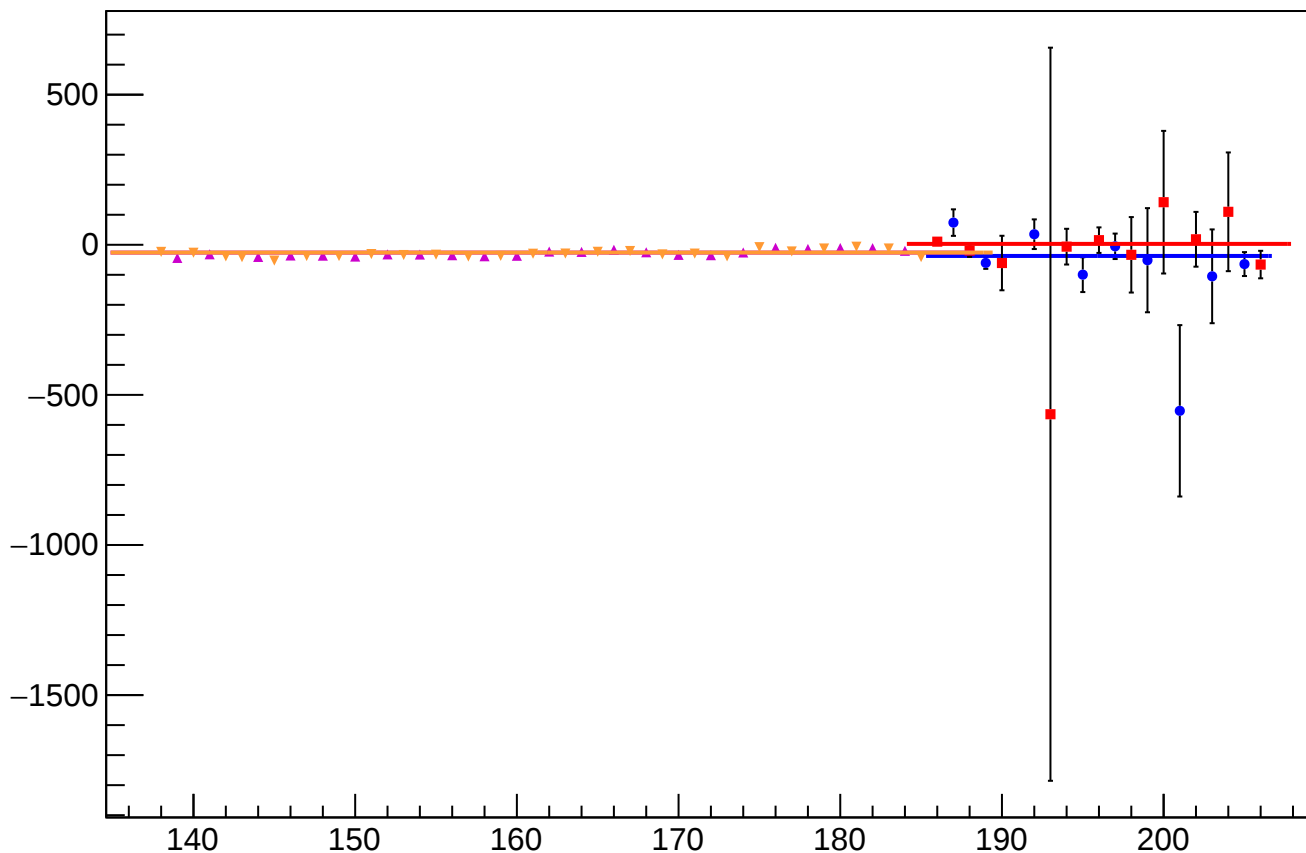
Right: -19.215 ± 0.010 χ^2/NDF : 335041.5/54

In: -19.903 ± 0.007 χ^2/NDF : 170798.3/47

Out: -19.655 ± 0.007 χ^2/NDF : 483602.2/53

All: -19.778 ± 0.005 χ^2/NDF : 655045.8/101

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -37.206 ± 14.077 χ^2/NDF : 15.5/8

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 2.960 ± 8.120 χ^2/NDF : 5.6/10

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

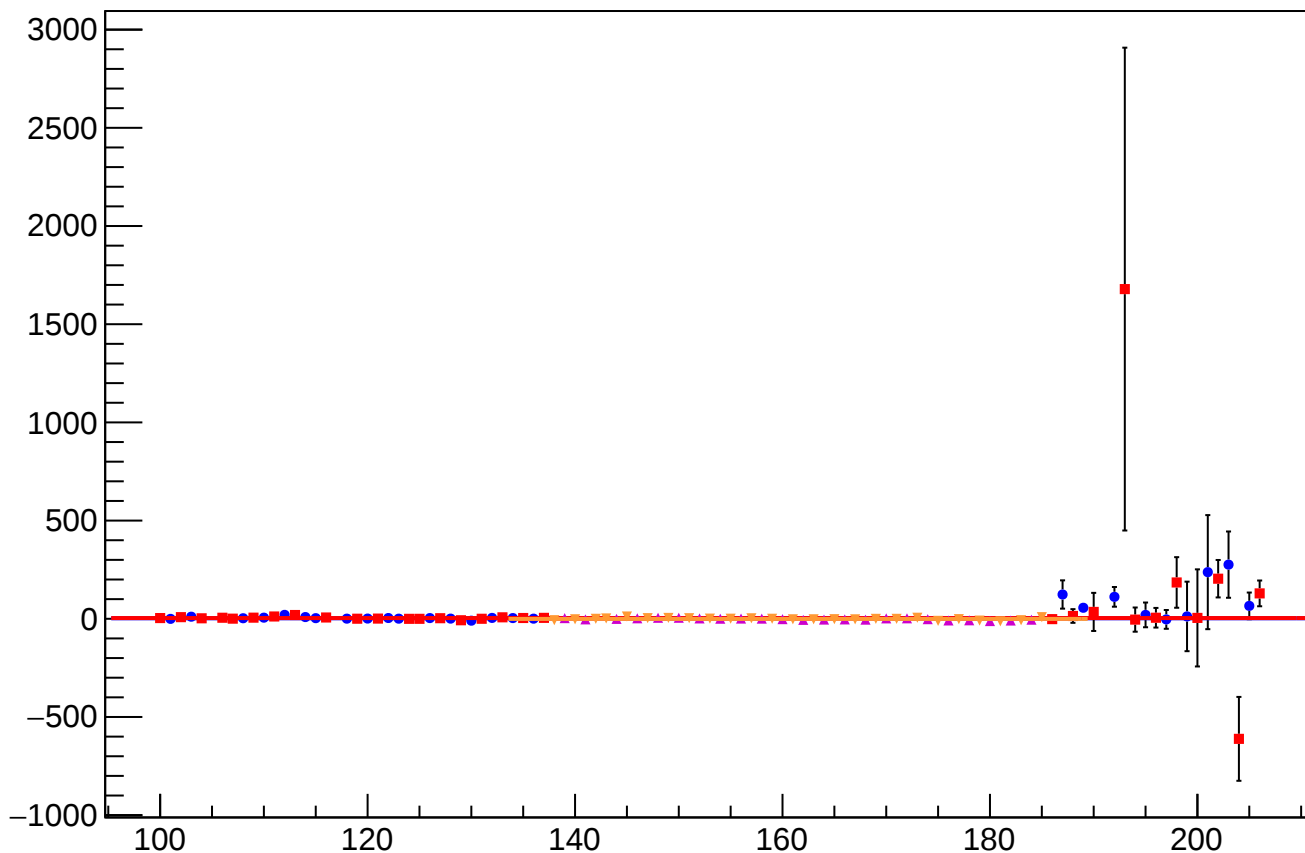
Right: -7.068 ± 7.034 χ^2/NDF : 27.2/19

In: -26.054 ± 0.195 χ^2/NDF : 3295.6/31

Out: -25.868 ± 0.192 χ^2/NDF : 4176.2/35

All: -25.960 ± 0.137 χ^2/NDF : 7472.3/67

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.474 $\pm$ 0.315 χ^2 /NDF: 311.8/25

Left Out: -0.654 $\pm$ 0.146 χ^2 /NDF:1320.8/24

Right Out: 3.716 $\pm$ 0.327 χ^2 /NDF: 289.7/29

Left In: -0.863 $\pm$ 0.150 χ^2 /NDF:1066.5/22

Left: -0.756 $\pm$ 0.105 χ^2 /NDF: 2388.3/47

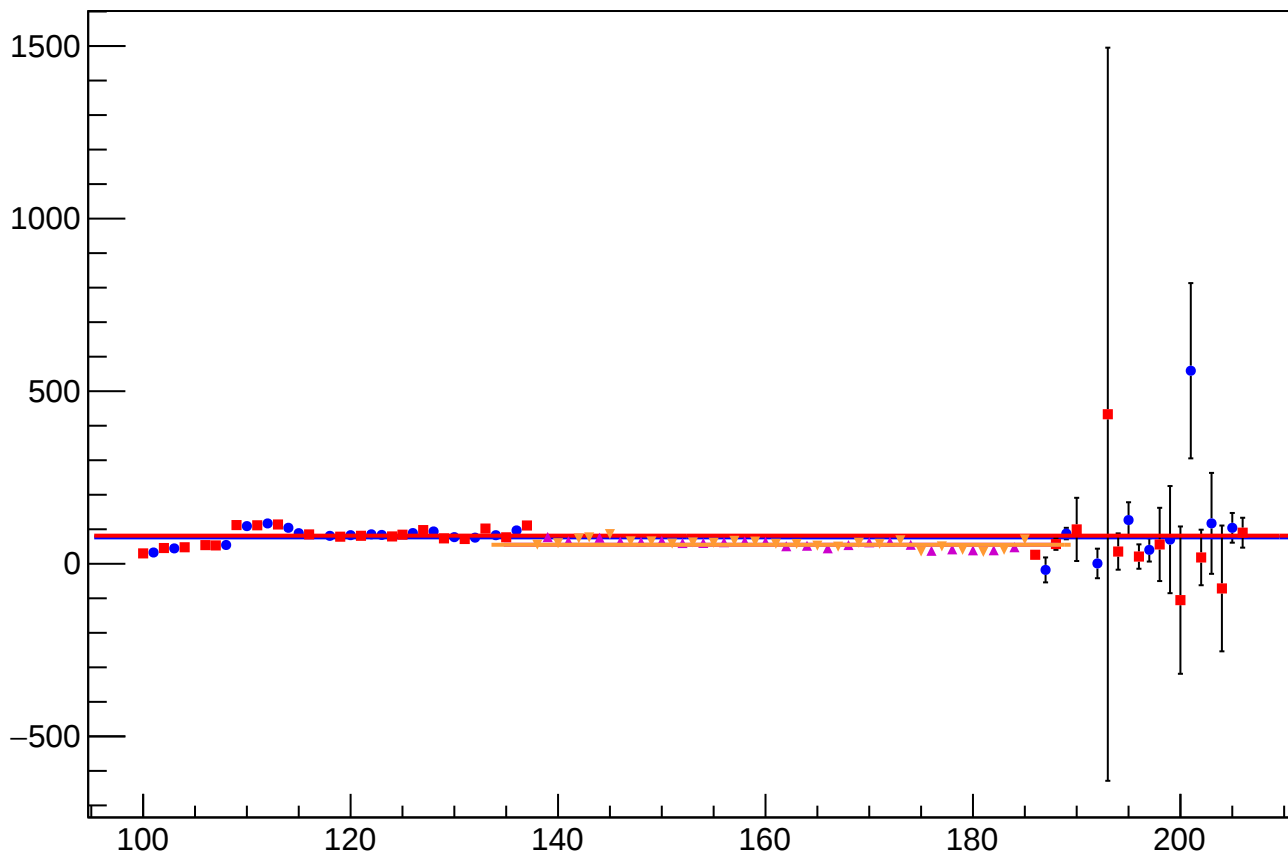
Right: 3.072 $\pm$ 0.227 χ^2 /NDF: 609.0/55

In: -0.243 $\pm$ 0.136 χ^2 /NDF:1469.9/48

Out: 0.075 $\pm$ 0.133 χ^2 /NDF:1759.7/54

All: -0.081 $\pm$ 0.095 χ^2 /NDF: 3232.4/103

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.534 $\pm$ 0.576 χ^2 /NDF: 2269.3/25

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.490 $\pm$ 0.590 χ^2 /NDF: 1632.6/29

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

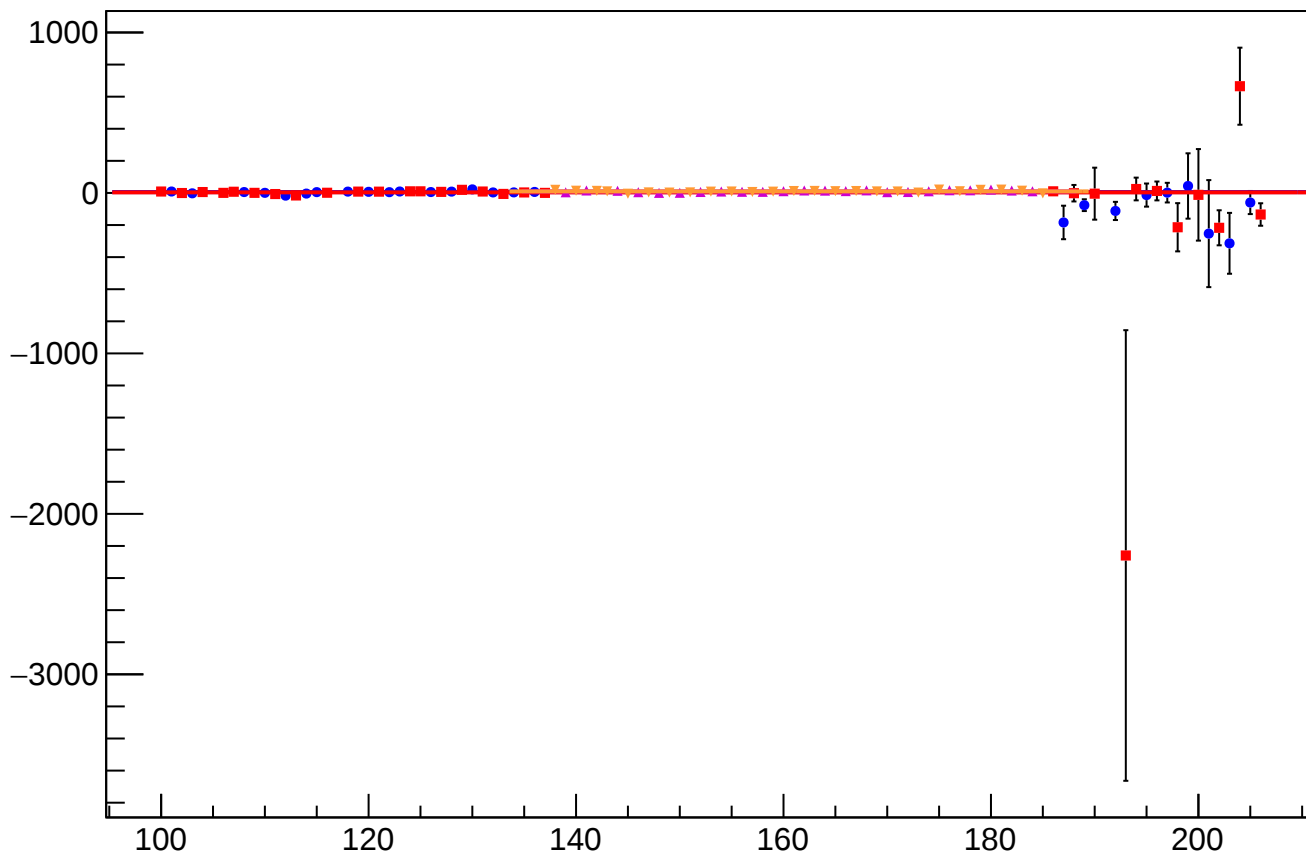
Right: 78.951 $\pm$ 0.412 χ^2 /NDF: 3938.0/55

In: 57.244 $\pm$ 0.183 χ^2 /NDF: 7218.9/48

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8019.5/54

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15240.4/103

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.409 $\pm$ 0.361 χ^2 /NDF: 402.6/25

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.579 $\pm$ 0.375 χ^2 /NDF: 442.1/29

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

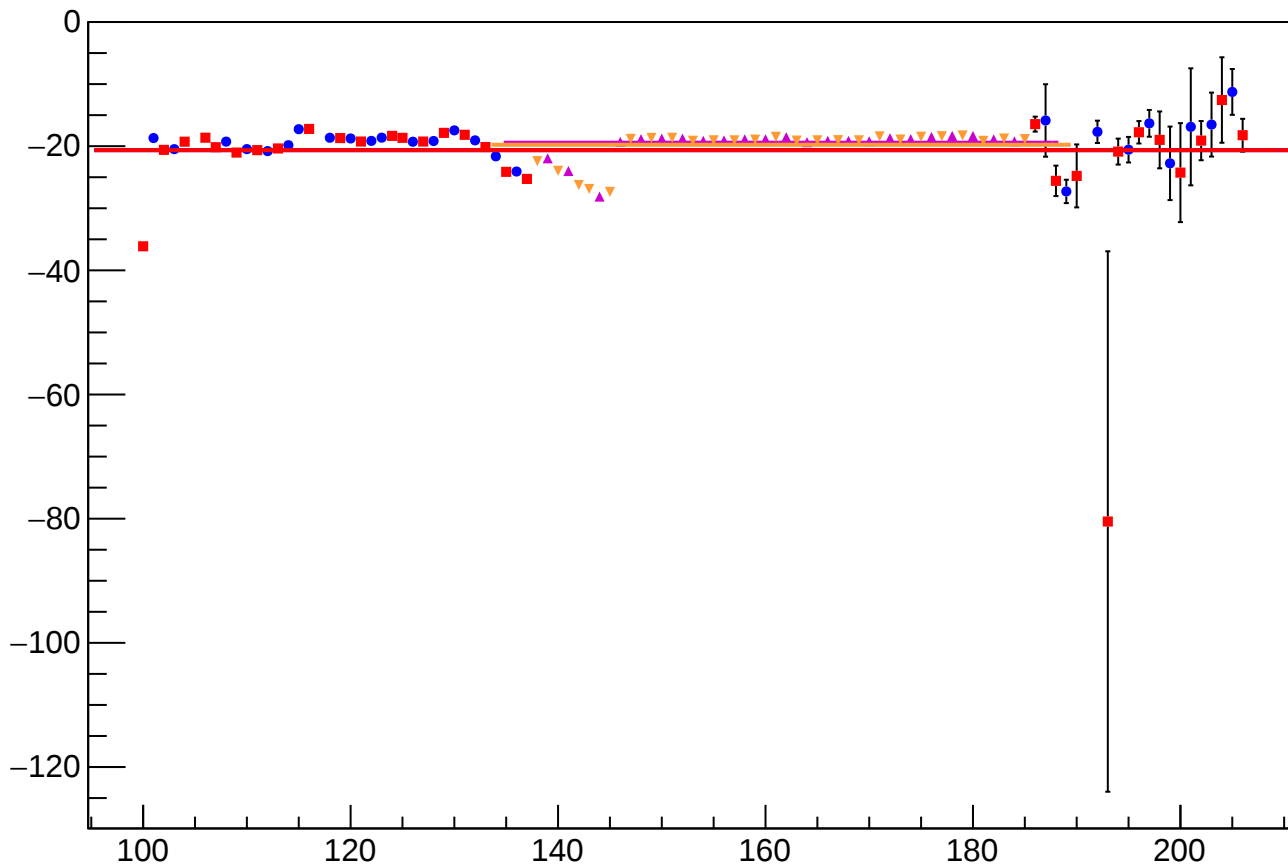
Right: 4.531 $\pm$ 0.260 χ^2 /NDF: 857.0/55

In: 8.993 $\pm$ 0.155 χ^2 /NDF:1682.2/48

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2116.6/54

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3800.4/103

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 ± 0.019 $\chi^2/\text{NDF}: 12451.4/25$

Left Out: -19.767 ± 0.008 $\chi^2/\text{NDF}: 91617.3/24$

Right Out: -20.638 ± 0.019 $\chi^2/\text{NDF}: 13809.9/29$

Left In: -19.435 ± 0.008 $\chi^2/\text{NDF}: 53170.9/22$

Left: -19.603 ± 0.006 $\chi^2/\text{NDF}: 145665.0/47$

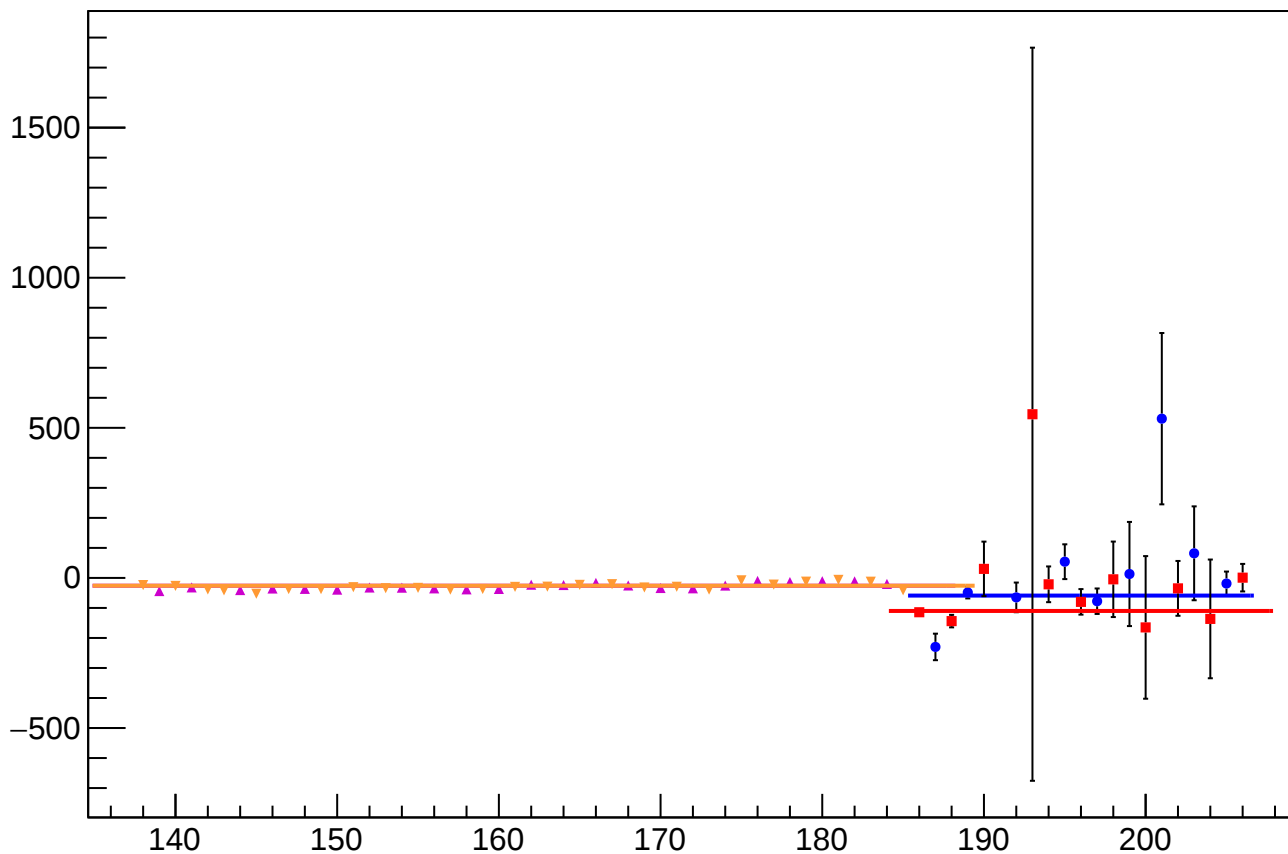
Right: -20.641 ± 0.014 $\chi^2/\text{NDF}: 26261.3/55$

In: -19.610 ± 0.007 $\chi^2/\text{NDF}: 68958.1/48$

Out: -19.890 ± 0.007 $\chi^2/\text{NDF}: 107149.6/54$

All: -19.751 ± 0.005 $\chi^2/\text{NDF}: 176836.6/103$

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -58.819 ± 14.088 χ^2/NDF : 25.5/8

Left Out: -25.899 ± 0.192 χ^2/NDF : 4127.5/24

Right Out: -110.029 ± 8.126 χ^2/NDF : 15.5/10

Left In: -26.046 ± 0.195 χ^2/NDF : 3246.7/22

Left: -25.971 ± 0.137 χ^2/NDF : 7374.6/47

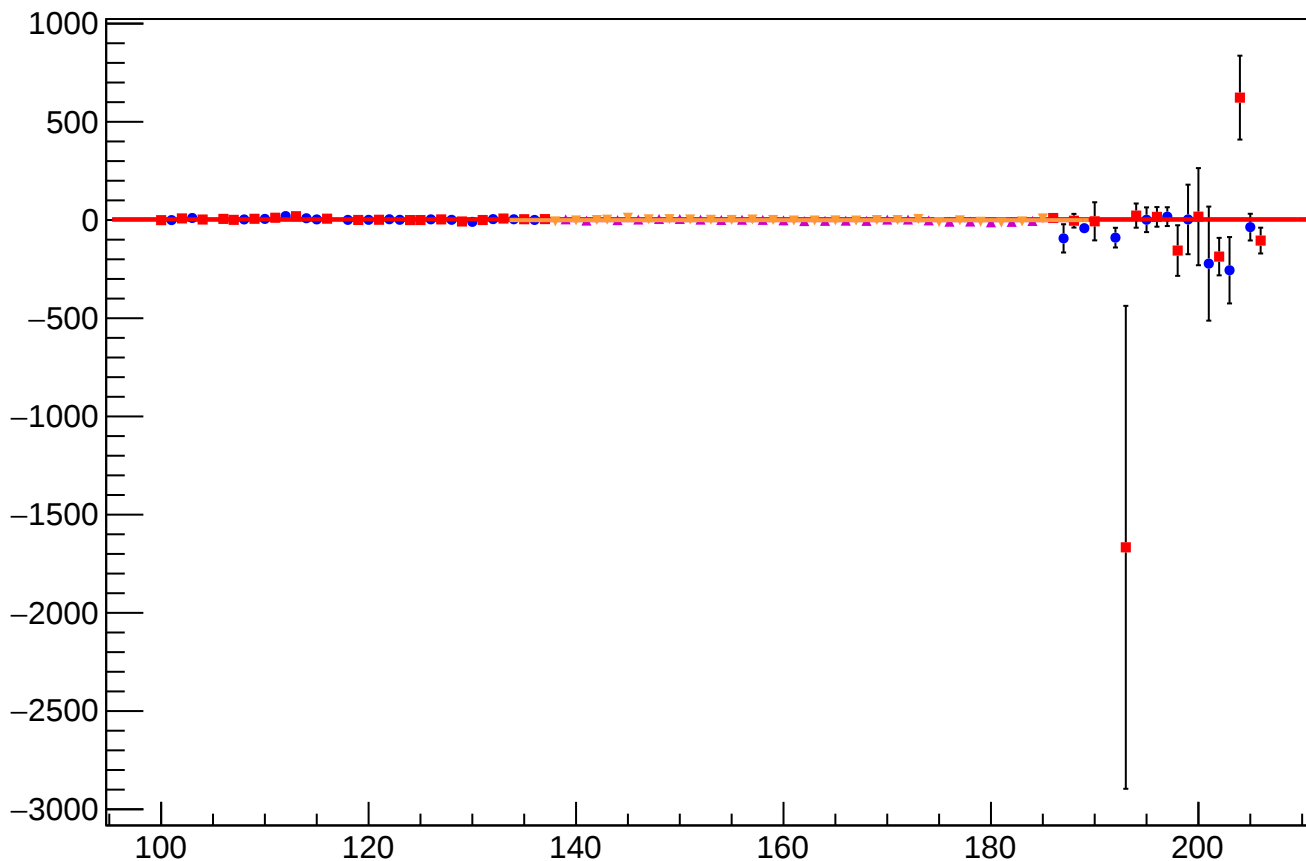
Right: -97.245 ± 7.039 χ^2/NDF : 51.0/19

In: -26.052 ± 0.195 χ^2/NDF : 3277.7/31

Out: -25.946 ± 0.192 χ^2/NDF : 4250.2/35

All: -25.998 ± 0.137 χ^2/NDF : 7528.0/67

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.440 ± 0.315 χ^2/NDF : 304.6/25

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.593 ± 0.318 χ^2/NDF : 299.1/29

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

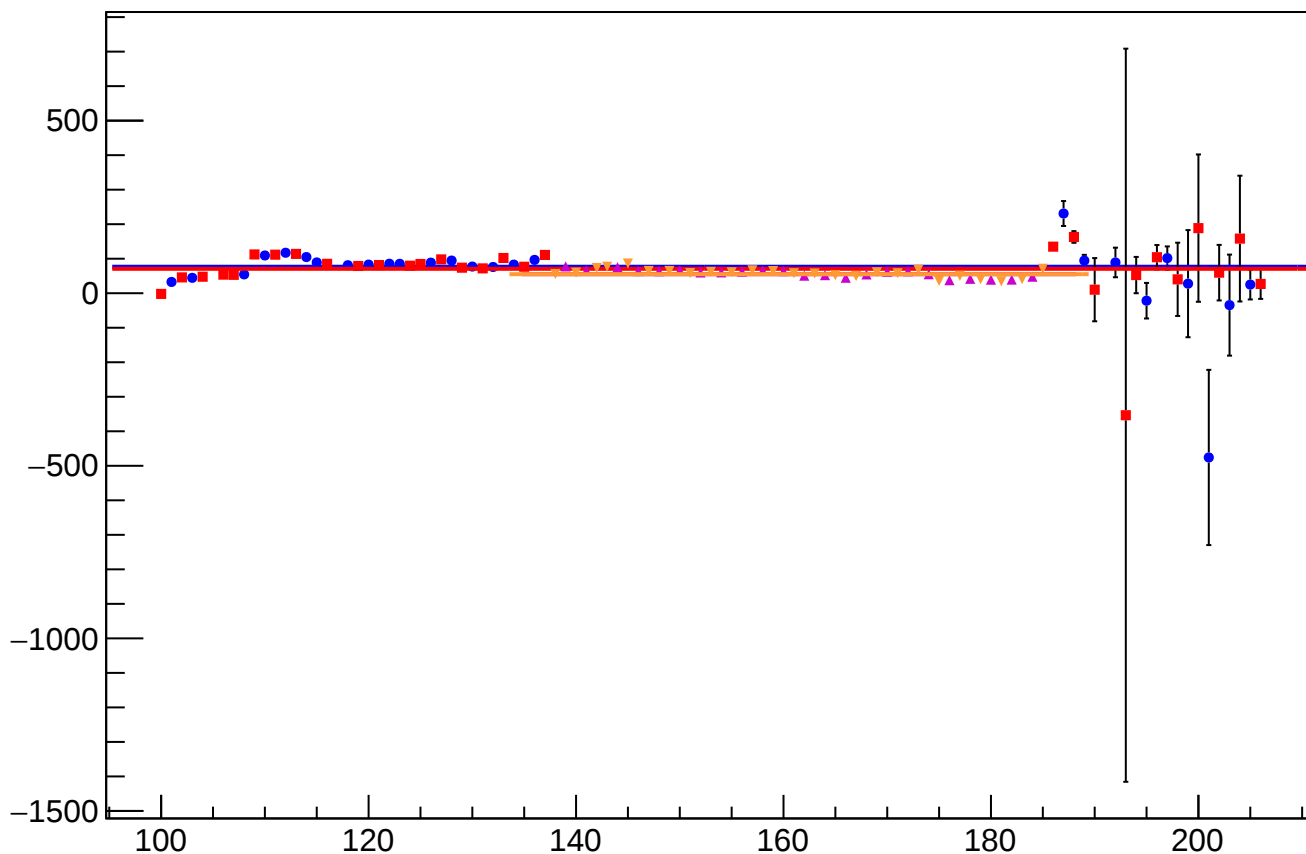
Right: 3.011 ± 0.224 χ^2/NDF : 610.3/55

In: -0.193 ± 0.136 χ^2/NDF : 1496.8/48

Out: 0.136 ± 0.133 χ^2/NDF : 1753.0/54

All: -0.025 ± 0.095 χ^2/NDF : 3252.8/103

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.718 $\pm$ 0.577 χ^2 /NDF: 2295.3/25

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.749 $\pm$ 0.549 χ^2 /NDF: 4492.4/29

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

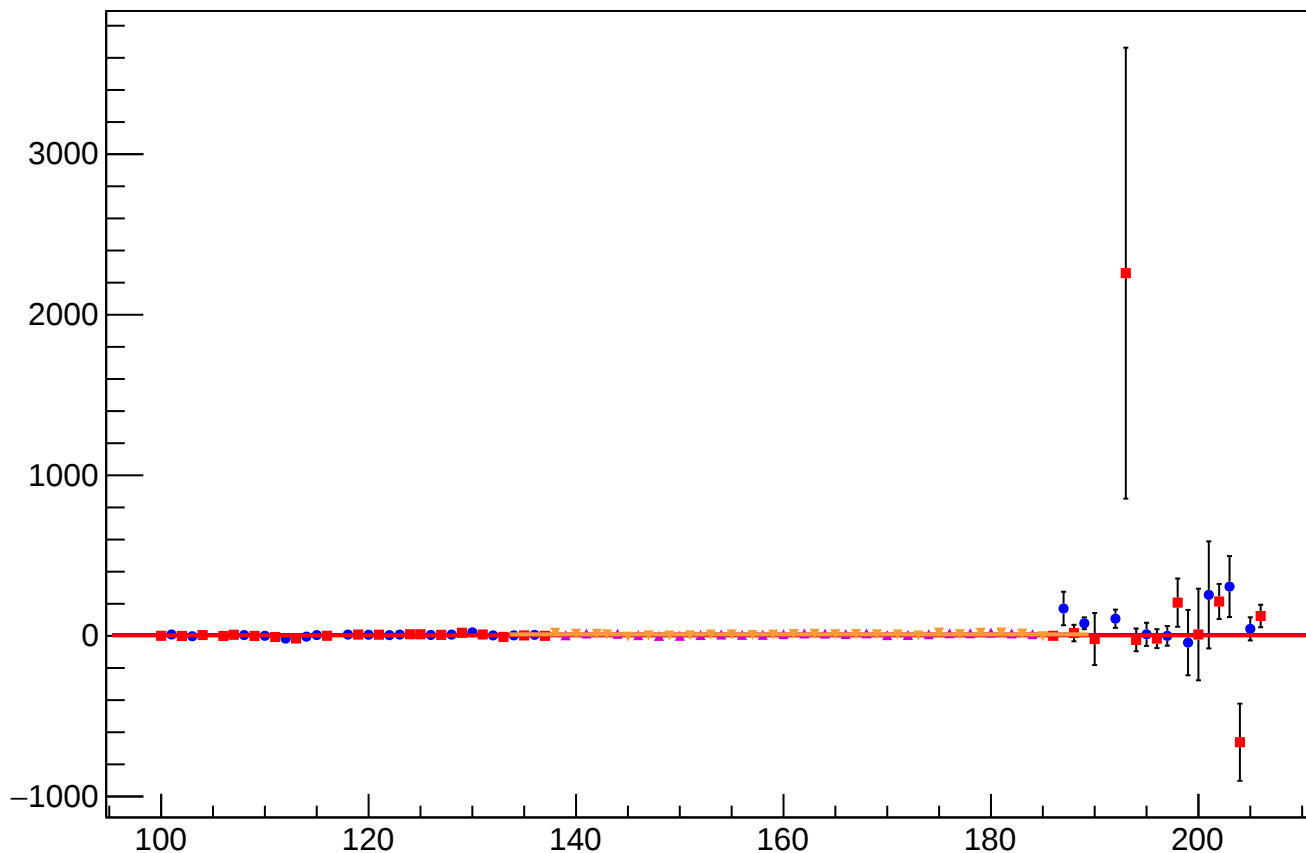
Right: 73.585 $\pm$ 0.397 χ^2 /NDF: 6844.0/55

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7224.0/48

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9776.7/54

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17004.1/103

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.443+/-0.361 χ^2/NDF : 397.3/25

Left Out: 9.675+/-0.168 χ^2/NDF :1441.3/24

Right Out: 3.283+/-0.365 χ^2/NDF : 444.2/29

Left In: 9.738+/-0.172 χ^2/NDF :1191.1/22

Left: 9.706+/-0.120 χ^2/NDF : 2632.6/47

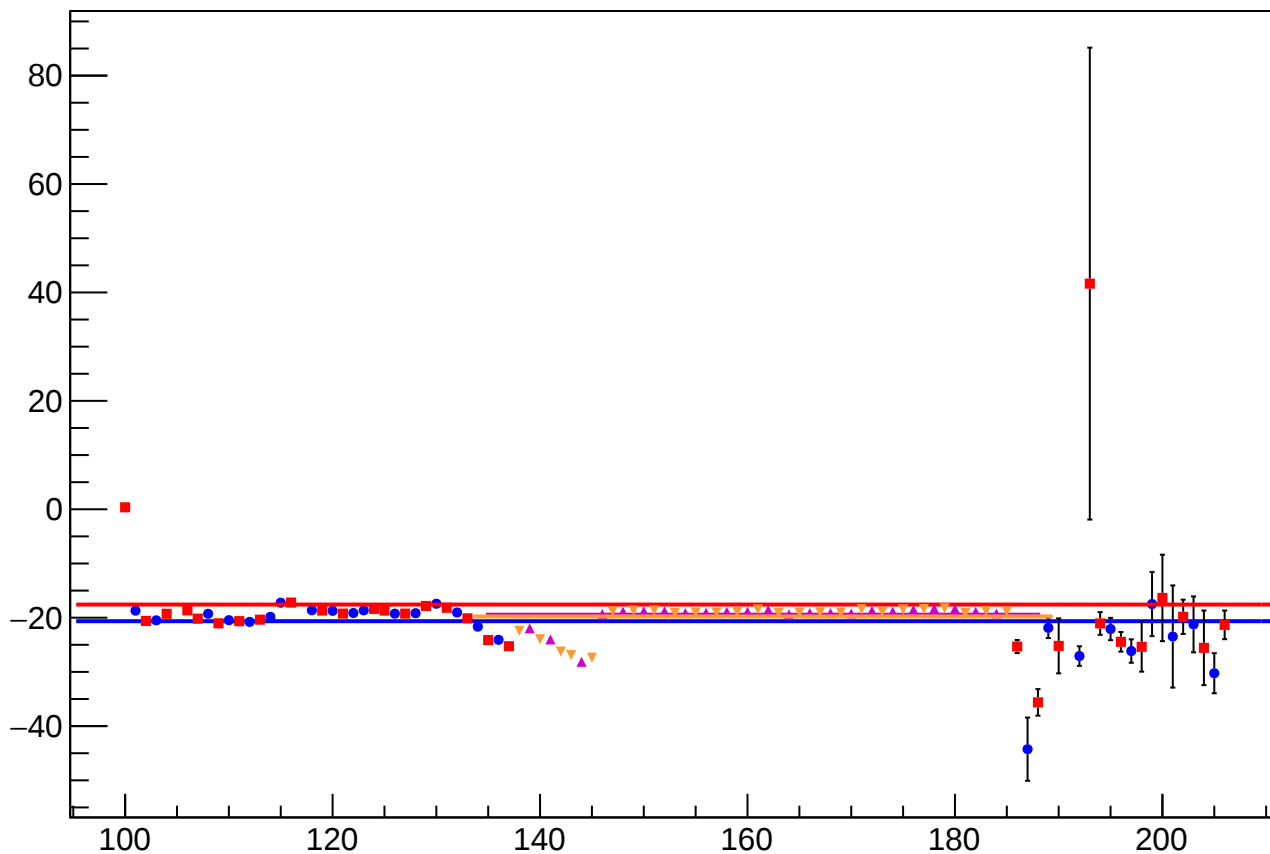
Right: 4.377+/-0.257 χ^2/NDF : 859.2/55

In: 8.945+/-0.155 χ^2/NDF :1703.8/48

Out: 8.562+/-0.153 χ^2/NDF :2138.2/54

All: 8.750+/-0.109 χ^2/NDF : 3845.1/103

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 $\chi^2/\text{NDF}: 12506.4/25$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.575 ± 0.018 $\chi^2/\text{NDF}: 178441.6/29$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

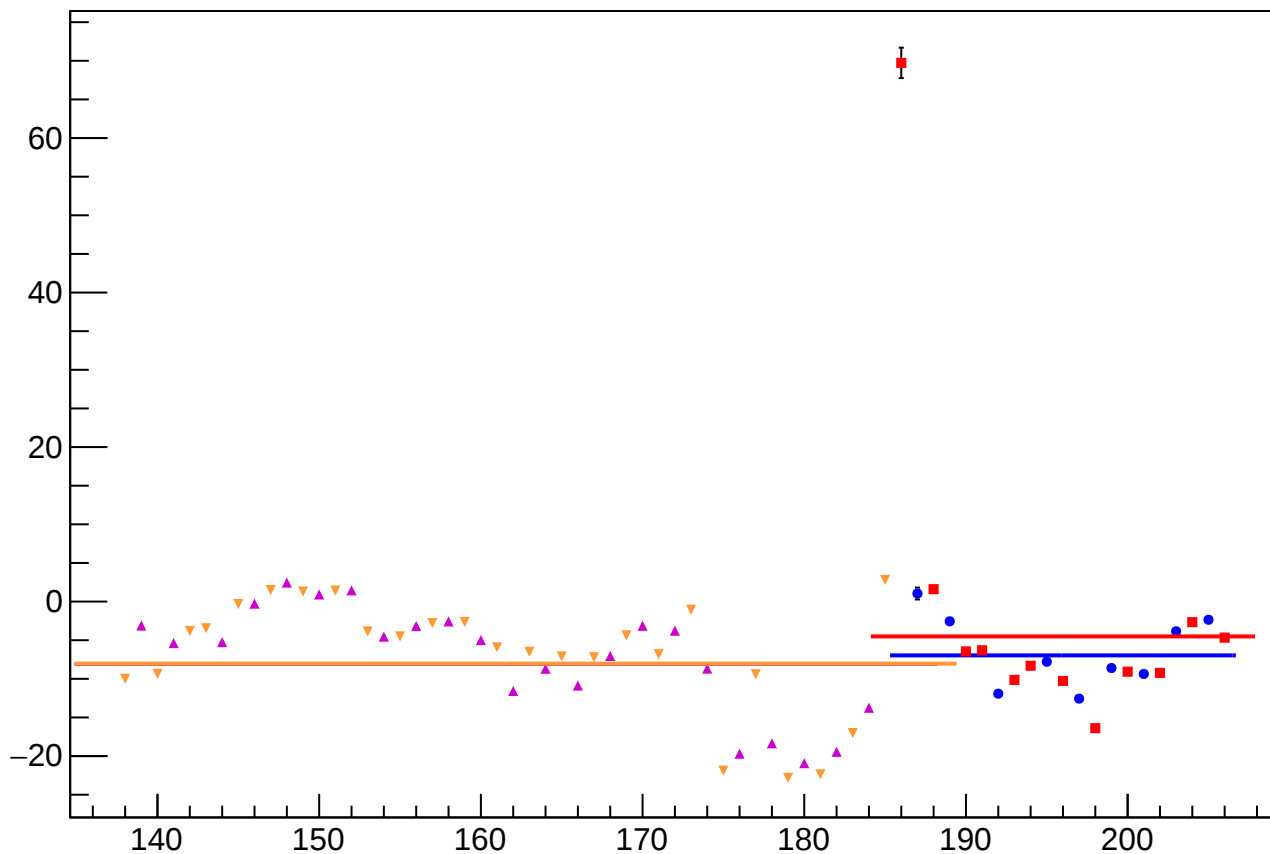
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204422.1/55$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68930.4/48$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282429.1/54$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351722.9/103$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



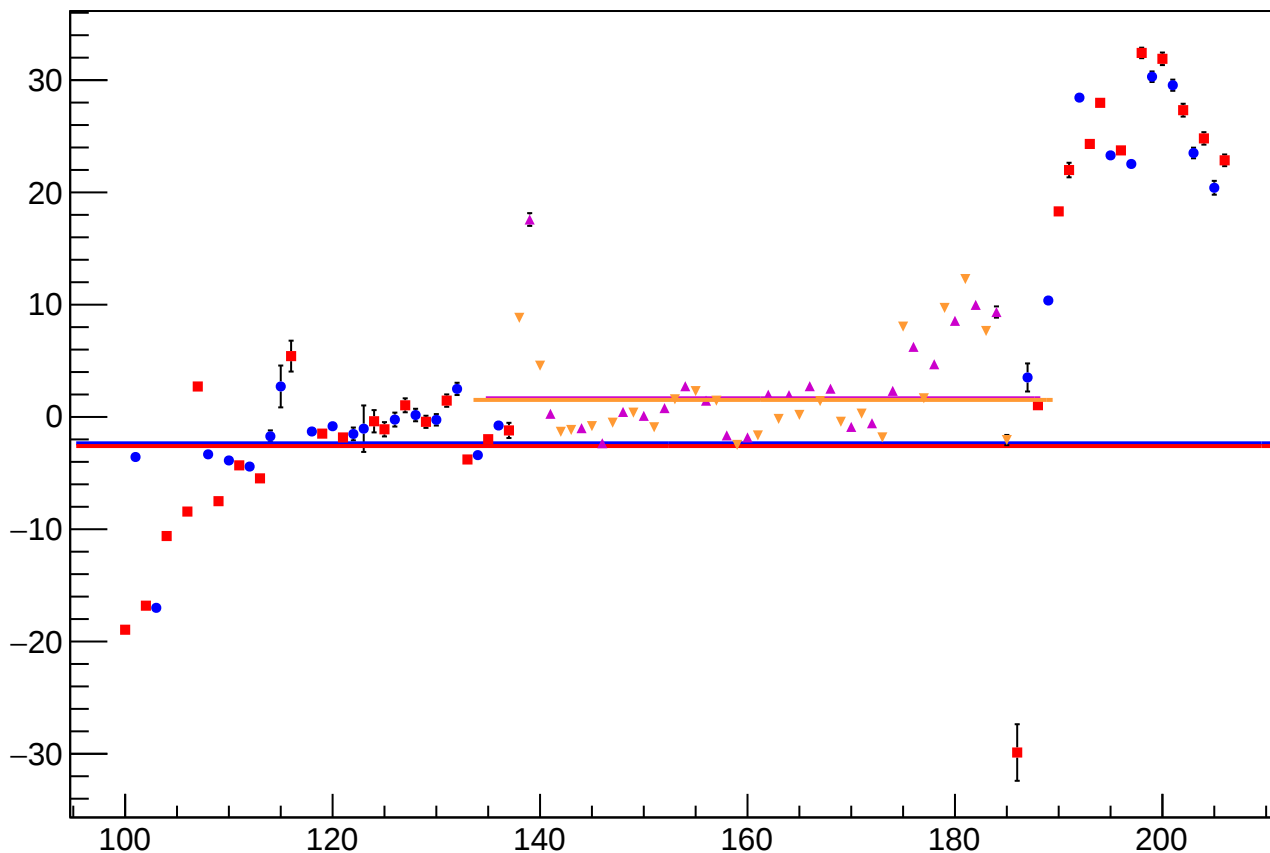
Right In: -6.965 ± 0.137 χ^2/NDF : 903.6/8
 Left Out: -8.034 ± 0.070 χ^2/NDF : 12568.0/24
 Right Out: -4.511 ± 0.108 χ^2/NDF : 3924.1/11
 Left In: -8.078 ± 0.072 χ^2/NDF : 10541.6/22

Left: -8.055 ± 0.050 χ^2/NDF : 23109.8/47
 Right: -5.451 ± 0.085 χ^2/NDF : 5026.3/20

In: -7.837 ± 0.064 χ^2/NDF : 11497.0/31
 Out: -6.983 ± 0.059 χ^2/NDF : 17241.6/36

All: -7.377 ± 0.043 χ^2/NDF : 28835.6/68

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.349 $\pm$ 0.052 χ^2/NDF : 40266.4/25

Left Out: 1.518 $\pm$ 0.054 χ^2/NDF : 4847.5/24

Right Out: -2.591 $\pm$ 0.054 χ^2/NDF : 53658.6/30

Left In: 1.662 $\pm$ 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 $\pm$ 0.039 χ^2/NDF : 8885.0/47

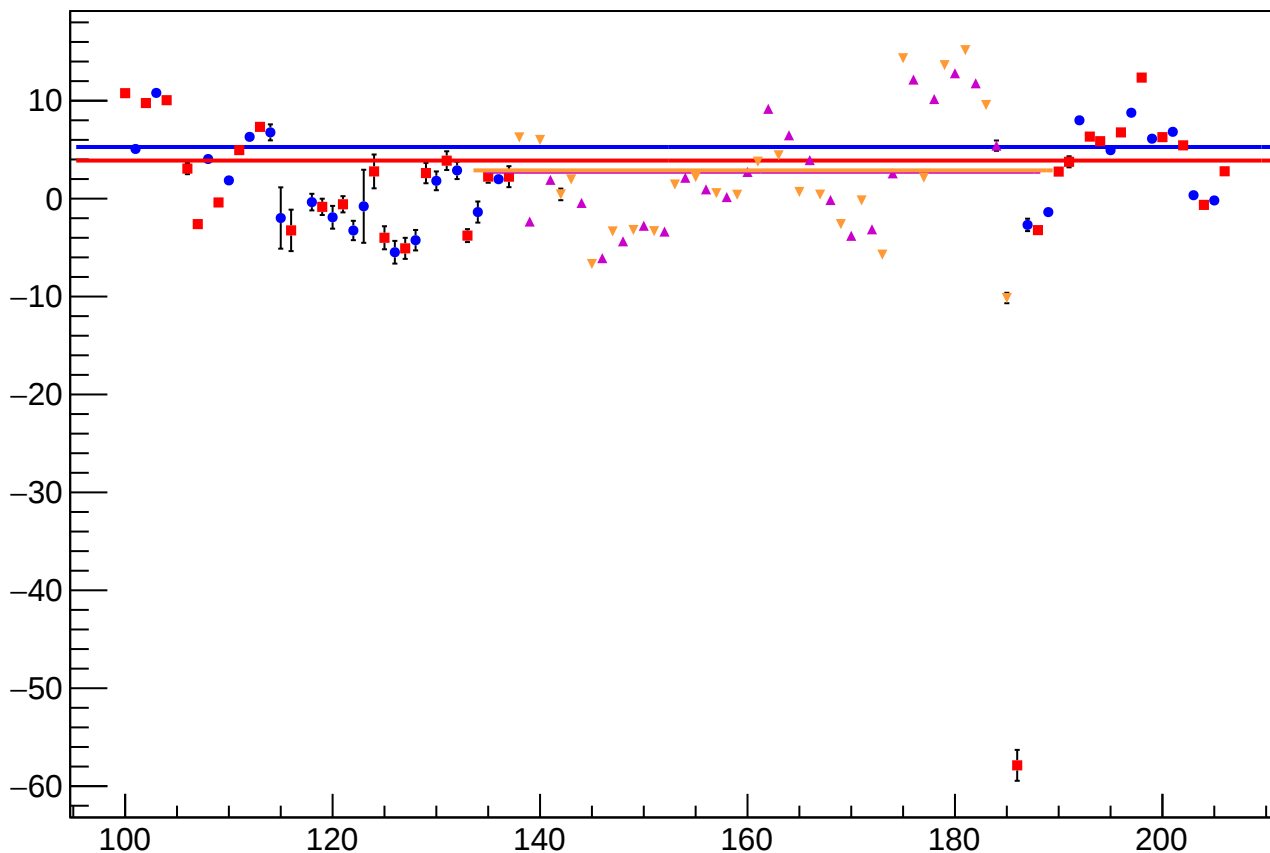
Right: -2.465 $\pm$ 0.037 χ^2/NDF : 93935.6/56

In: -0.518 $\pm$ 0.038 χ^2/NDF : 47033.0/48

Out: -0.555 $\pm$ 0.038 χ^2/NDF : 61388.7/55

All: -0.536 $\pm$ 0.027 χ^2/NDF : 108422.2/104

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.273+/-0.073 χ^2/NDF : 2572.0/25

Left Out: 2.884+/-0.070 χ^2/NDF : 8893.2/24

Right Out: 3.888+/-0.066 χ^2/NDF : 7787.9/30

Left In: 2.745+/-0.071 χ^2/NDF : 7183.1/22

Left: 2.816+/-0.050 χ^2/NDF : 16078.2/47

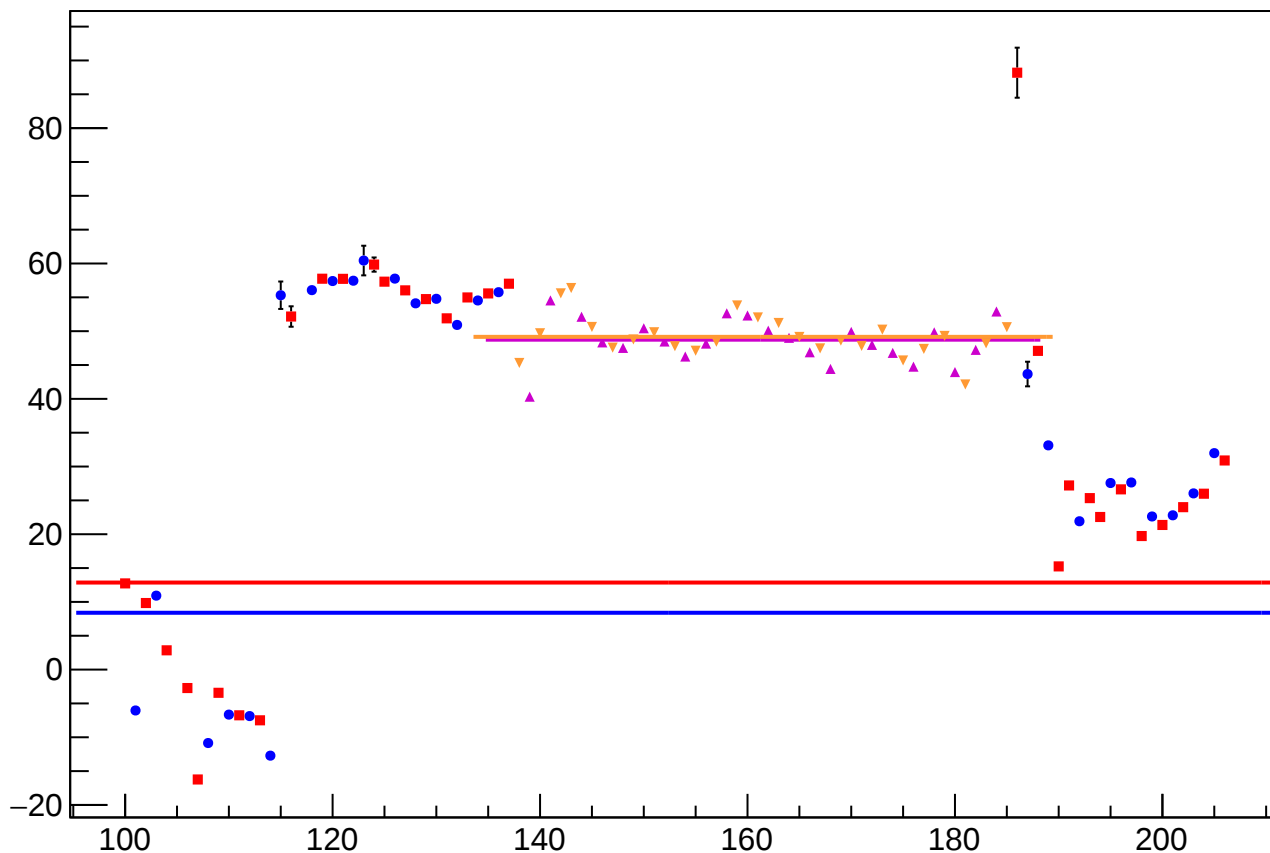
Right: 4.518+/-0.049 χ^2/NDF : 10557.7/56

In: 3.987+/-0.051 χ^2/NDF : 10369.8/48

Out: 3.414+/-0.048 χ^2/NDF : 16788.9/55

All: 3.685+/-0.035 χ^2/NDF : 27225.2/104

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.396 ± 0.061 $\chi^2/\text{NDF}: 131471.3/25$

Left Out: 49.163 ± 0.062 $\chi^2/\text{NDF}: 2259.9/24$

Right Out: 12.861 ± 0.064 $\chi^2/\text{NDF}: 135566.9/30$

Left In: 48.744 ± 0.064 $\chi^2/\text{NDF}: 2097.7/22$

Left: 48.960 ± 0.044 $\chi^2/\text{NDF}: 4380.0/47$

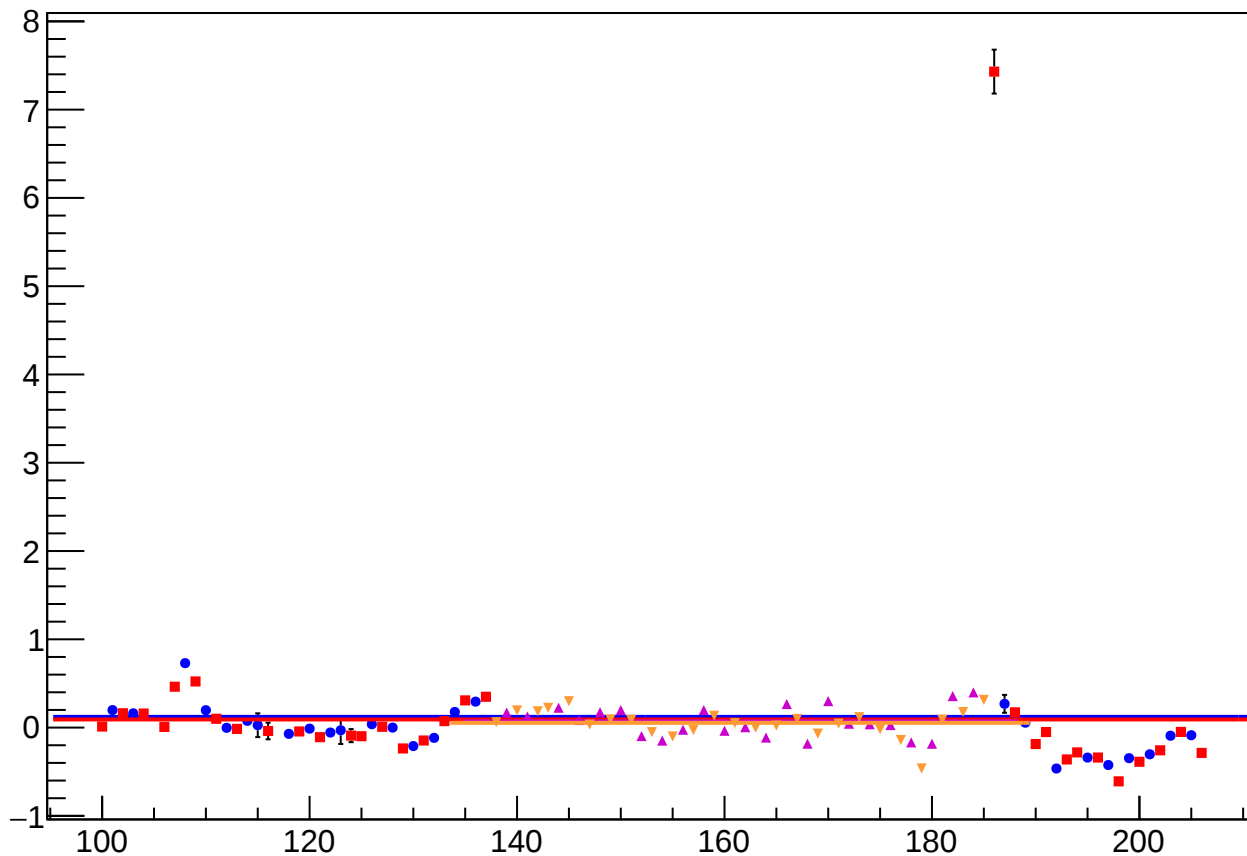
Right: 10.528 ± 0.044 $\chi^2/\text{NDF}: 269576.3/56$

In: 27.755 ± 0.044 $\chi^2/\text{NDF}: 341840.2/48$

Out: 31.681 ± 0.044 $\chi^2/\text{NDF}: 304317.3/55$

All: 29.705 ± 0.031 $\chi^2/\text{NDF}: 650082.7/104$

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.121+/-0.003 χ^2/NDF : 10992.1/25

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.092+/-0.002 χ^2/NDF : 10932.8/30

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

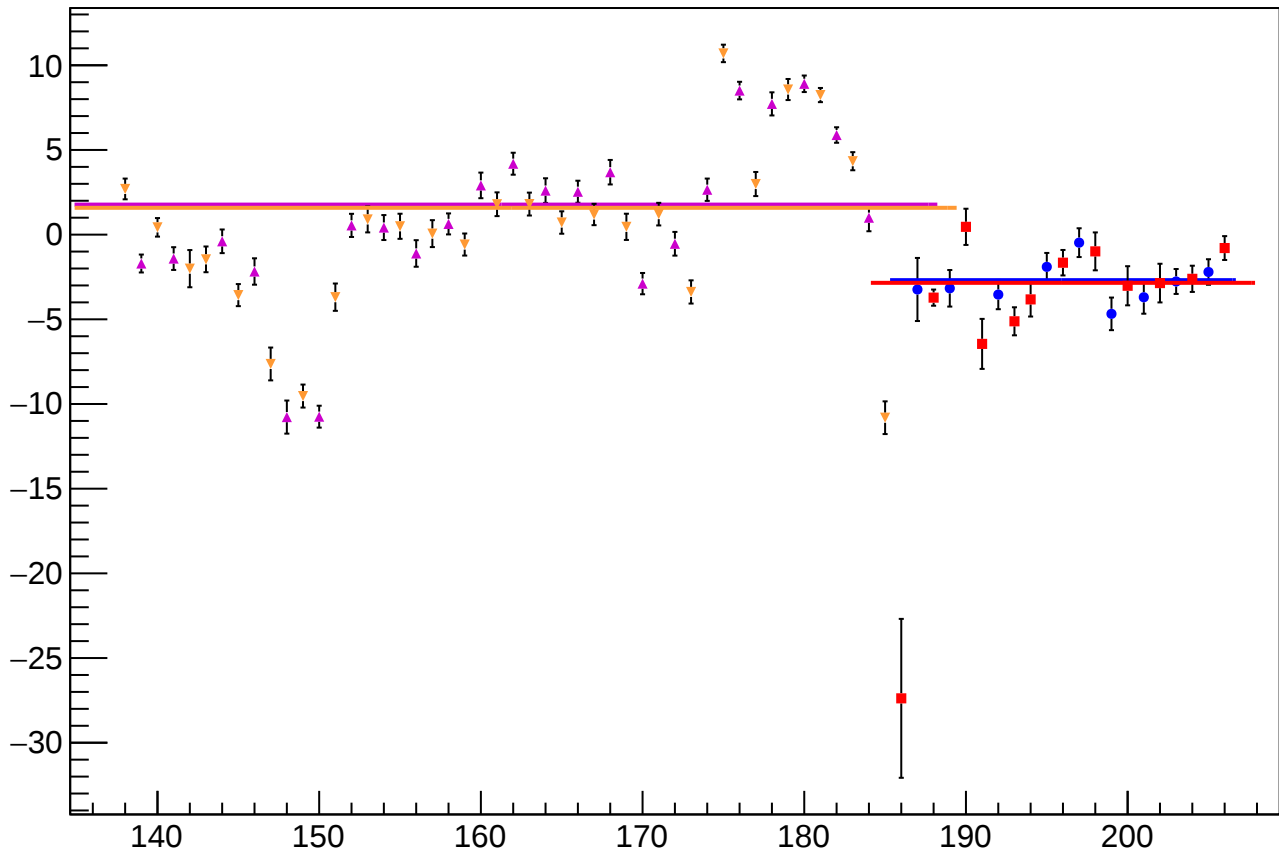
Right: 0.106+/-0.002 χ^2/NDF : 21996.5/56

In: 0.099+/-0.002 χ^2/NDF : 14405.8/48

Out: 0.076+/-0.002 χ^2/NDF : 13418.4/55

All: 0.087+/-0.001 χ^2/NDF : 27901.2/104

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.688 ± 0.300 χ^2/NDF : 14.7/8

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -2.846 ± 0.250 χ^2/NDF : 68.6/11

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

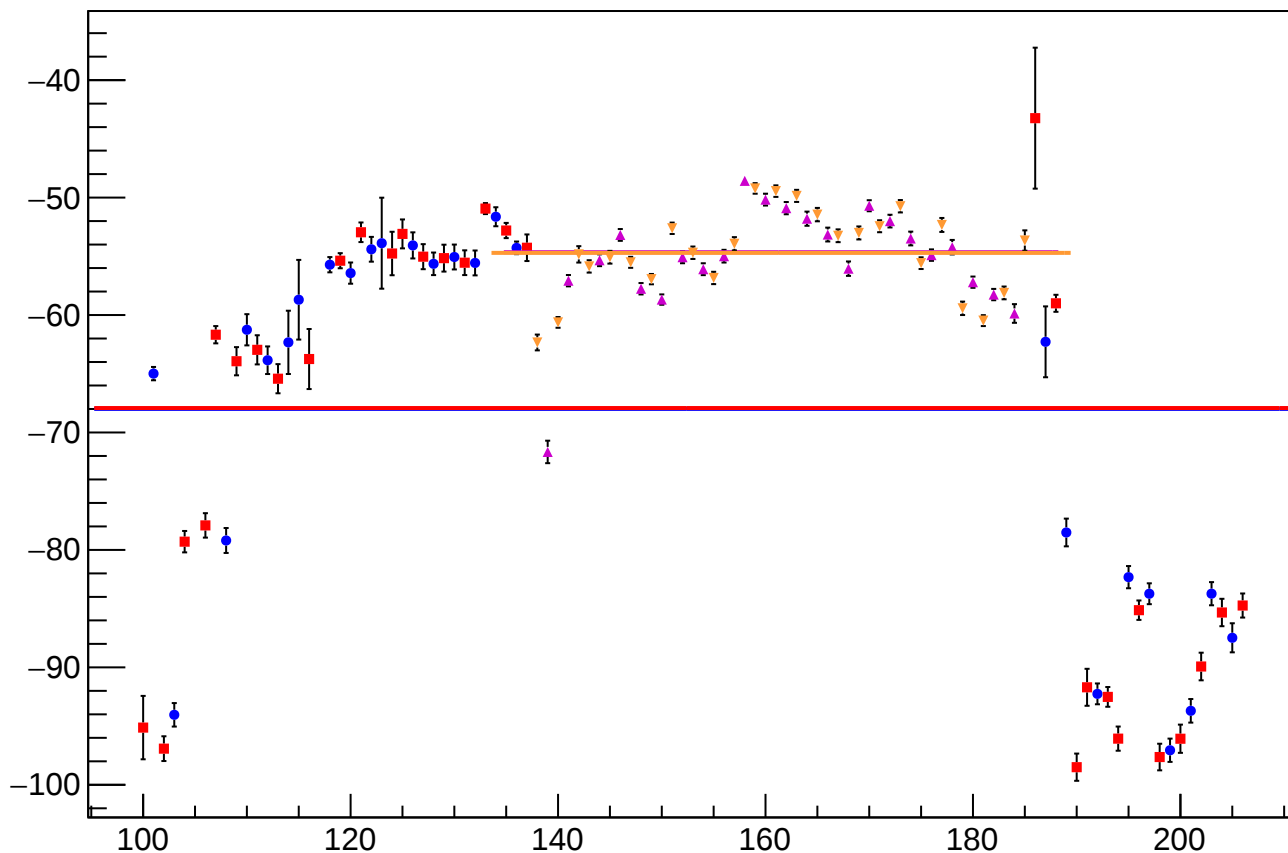
Right: -2.781 ± 0.192 χ^2/NDF : 83.5/20

In: 1.021 ± 0.123 χ^2/NDF : 1495.7/31

Out: 0.611 ± 0.117 χ^2/NDF : 1772.2/36

All: 0.806 ± 0.085 χ^2/NDF : 3273.7/68

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -67.992 ± 0.189 χ^2/NDF : 6628.3/25

Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24

Right Out: -67.919 ± 0.174 χ^2/NDF : 9729.6/30

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

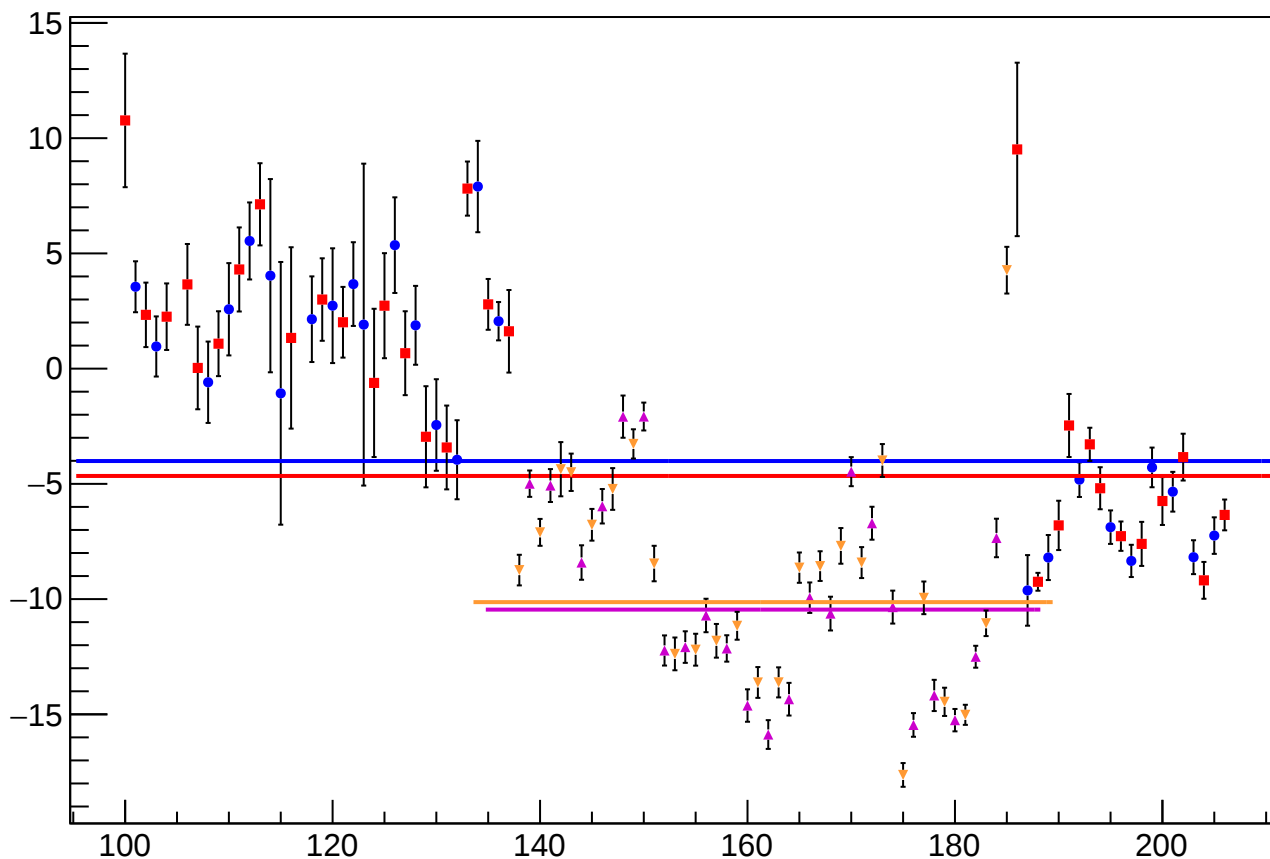
Right: -67.952 ± 0.128 χ^2/NDF : 16358.0/56

In: -58.007 ± 0.095 χ^2/NDF : 11421.5/48

Out: -58.266 ± 0.090 χ^2/NDF : 15064.6/55

All: -58.143 ± 0.065 χ^2/NDF : 26490.0/104

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

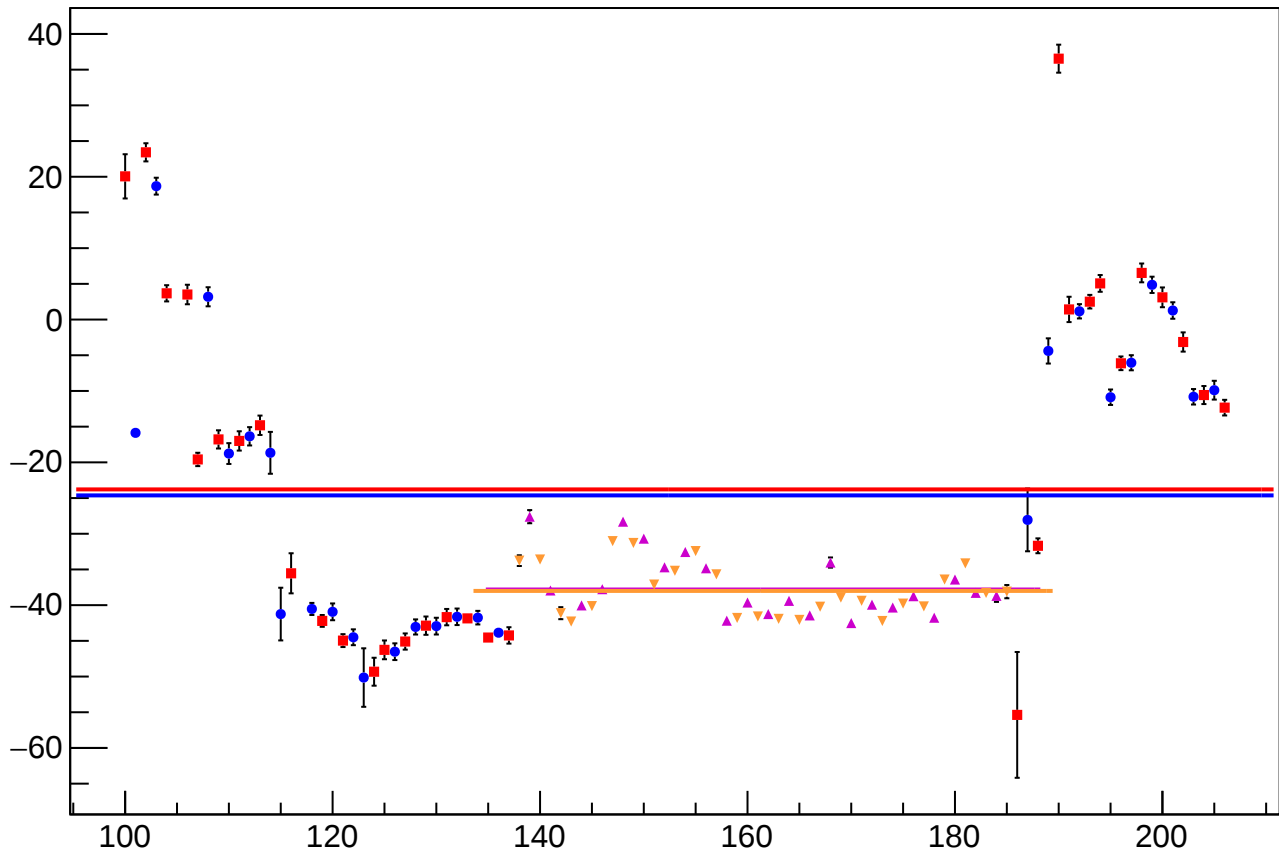


Right In: -4.009 ± 0.227 $\chi^2/\text{NDF}: 409.8/25$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -4.657 ± 0.192 $\chi^2/\text{NDF}: 653.6/30$
 Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$
 Right: -4.387 ± 0.147 $\chi^2/\text{NDF}: 1068.2/56$
 In: -8.780 ± 0.116 $\chi^2/\text{NDF}: 2008.6/48$
 Out: -8.358 ± 0.109 $\chi^2/\text{NDF}: 2259.4/55$

All: -8.557 ± 0.079 $\chi^2/\text{NDF}: 4275.1/104$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.629 ± 0.217 $\chi^2/\text{NDF}: 8351.8/25$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -23.788 ± 0.203 $\chi^2/\text{NDF}: 11601.5/30$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

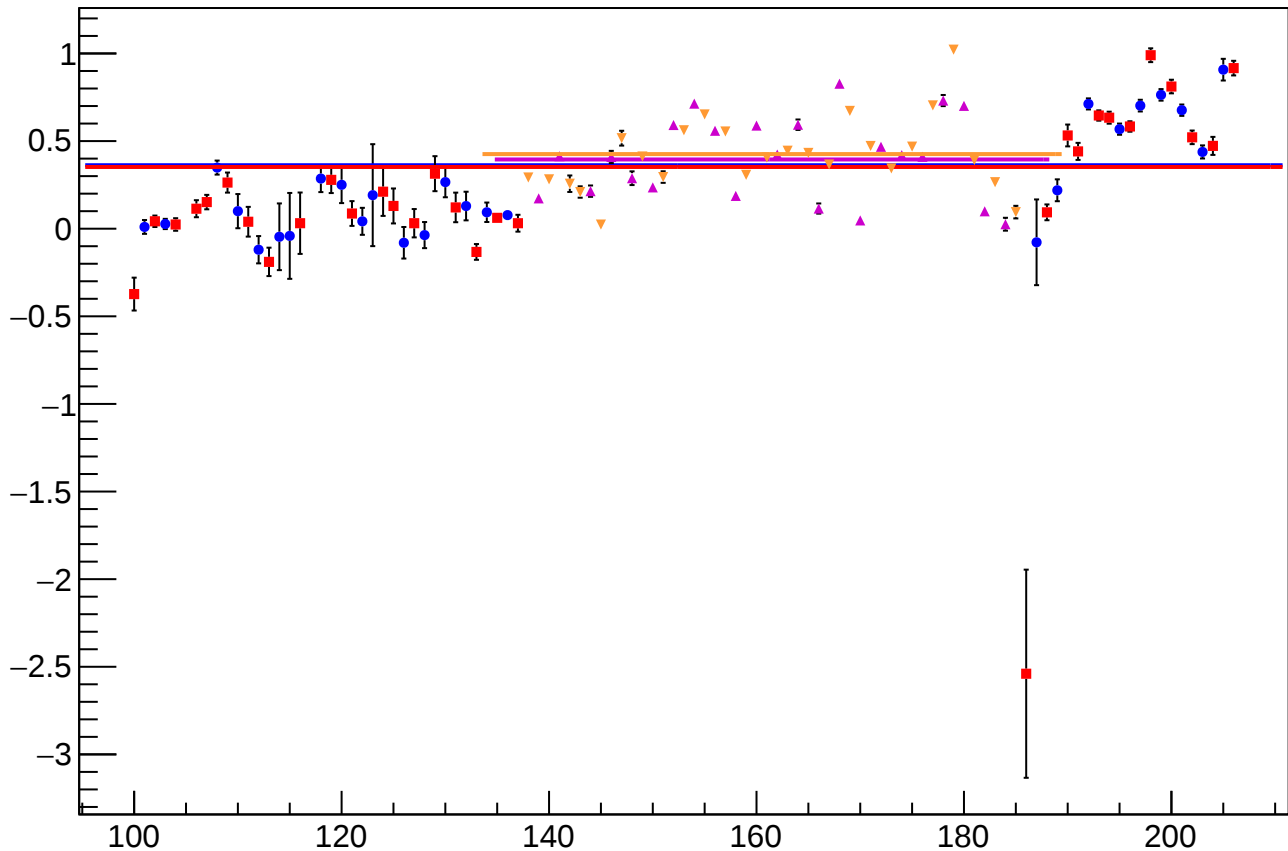
Right: -24.181 ± 0.148 $\chi^2/\text{NDF}: 19961.4/56$

In: -34.623 ± 0.106 $\chi^2/\text{NDF}: 12199.0/48$

Out: -34.378 ± 0.102 $\chi^2/\text{NDF}: 16206.1/55$

All: -34.496 ± 0.074 $\chi^2/\text{NDF}: 28407.8/104$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.362 $\pm$ 0.009 χ^2 /NDF: 1134.5/25

Left Out: 0.426 $\pm$ 0.005 χ^2 /NDF:1303.7/24

Right Out: 0.352 $\pm$ 0.008 χ^2 /NDF: 1574.8/30

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

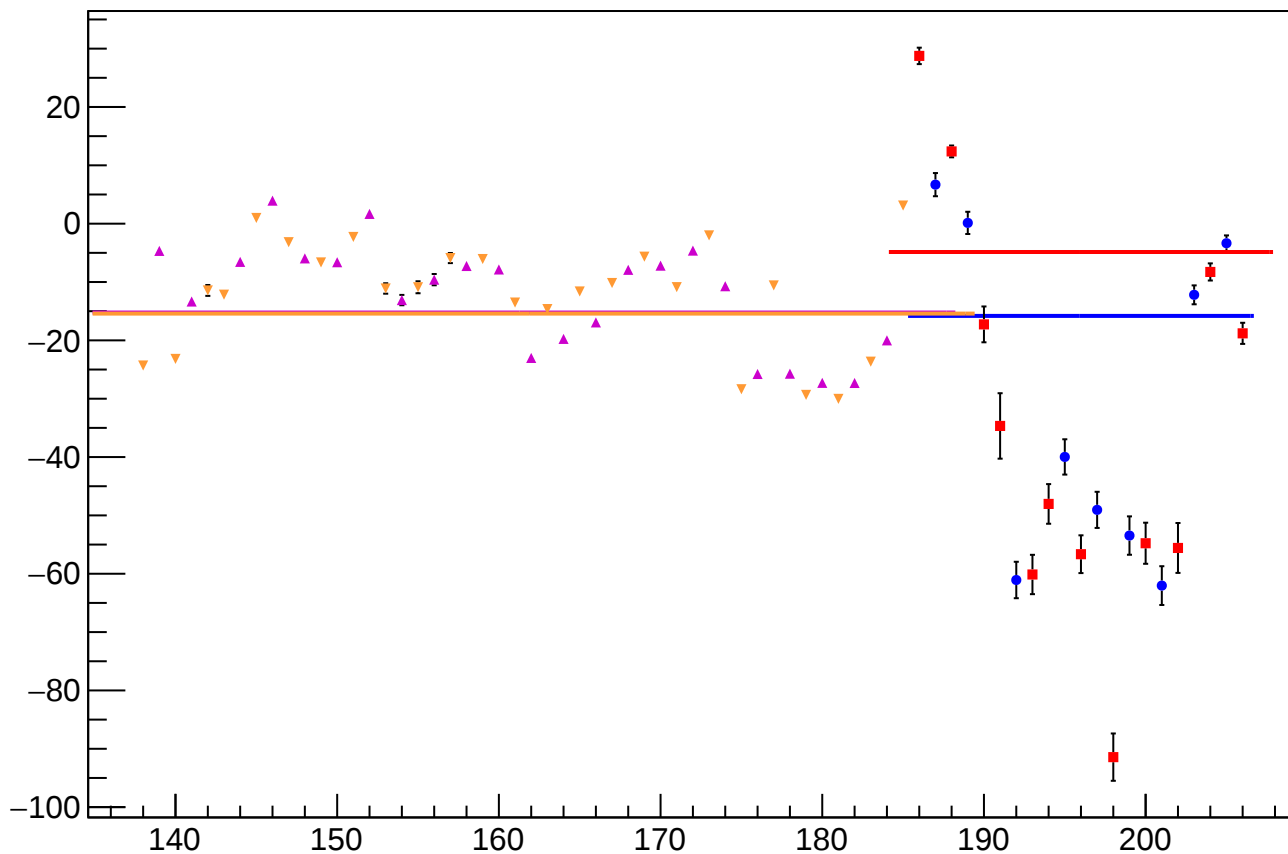
Right: 0.357 $\pm$ 0.006 χ^2 /NDF: 2709.9/56

In: 0.386 $\pm$ 0.005 χ^2 /NDF:2942.3/48

Out: 0.405 $\pm$ 0.005 χ^2 /NDF:2932.2/55

All: 0.396 $\pm$ 0.003 χ^2 /NDF: 5882.4/104

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.807 $\pm$ 0.713 χ^2 /NDF: 1003.5/8
 Left Out: -15.413 $\pm$ 0.105 χ^2 /NDF:10509.1/24
 Right Out: -4.855 $\pm$ 0.592 χ^2 /NDF: 2451.6/11
 Left In: -15.229 $\pm$ 0.107 χ^2 /NDF:8657.3/22

Left: -15.322 $\pm$ 0.075 χ^2 /NDF: 19167.9/47

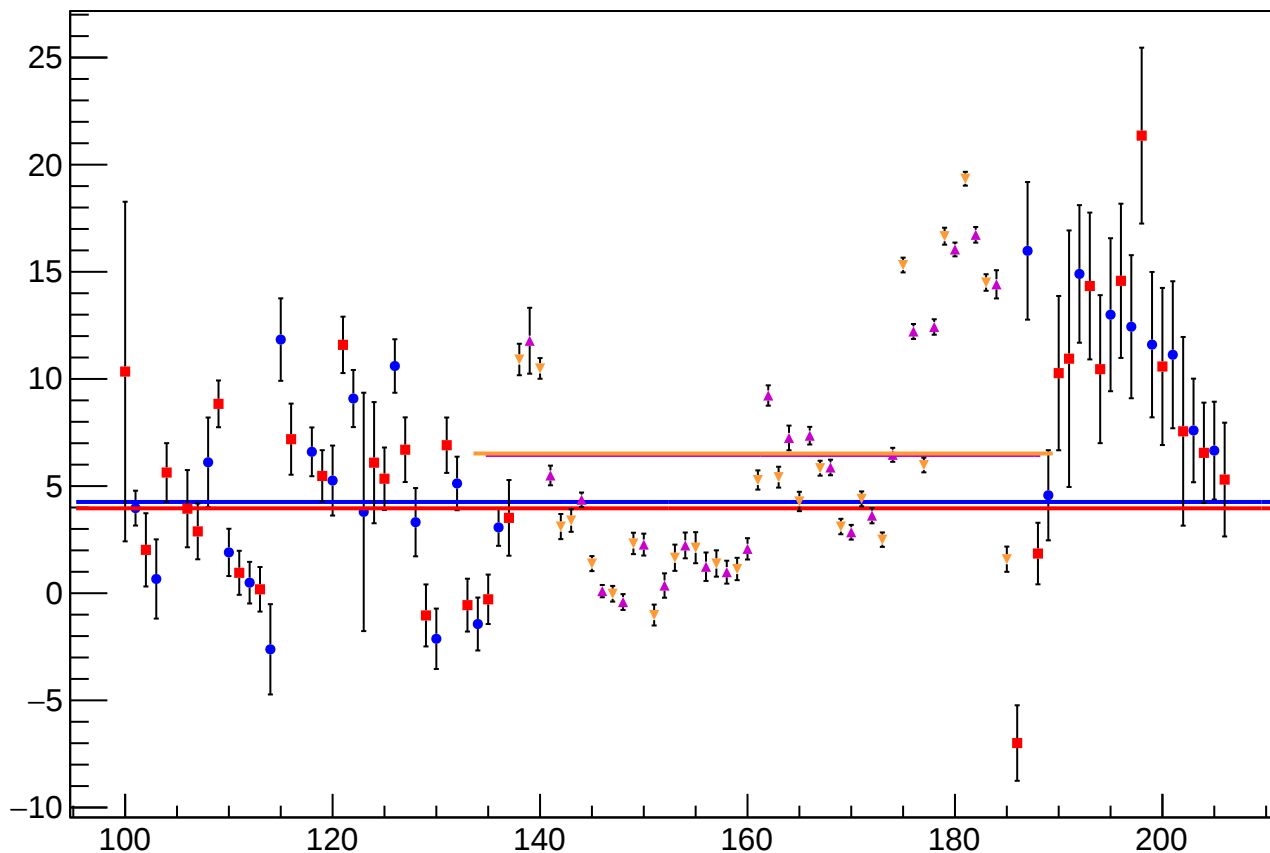
Right: -9.325 $\pm$ 0.456 χ^2 /NDF: 3594.8/20

In: -15.242 $\pm$ 0.106 χ^2 /NDF:9661.5/31

Out: -15.090 $\pm$ 0.104 χ^2 /NDF:13268.9/36

All: -15.164 $\pm$ 0.074 χ^2 /NDF: 22931.4/68

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.259+/-0.295 χ^2/NDF : 186.5/25

Left Out: 6.521+/-0.085 χ^2/NDF : 4985.2/24

Right Out: 3.962+/-0.293 χ^2/NDF : 223.7/30

Left In: 6.452+/-0.086 χ^2/NDF : 3948.0/22

Left: 6.487+/-0.061 χ^2/NDF : 8933.5/47

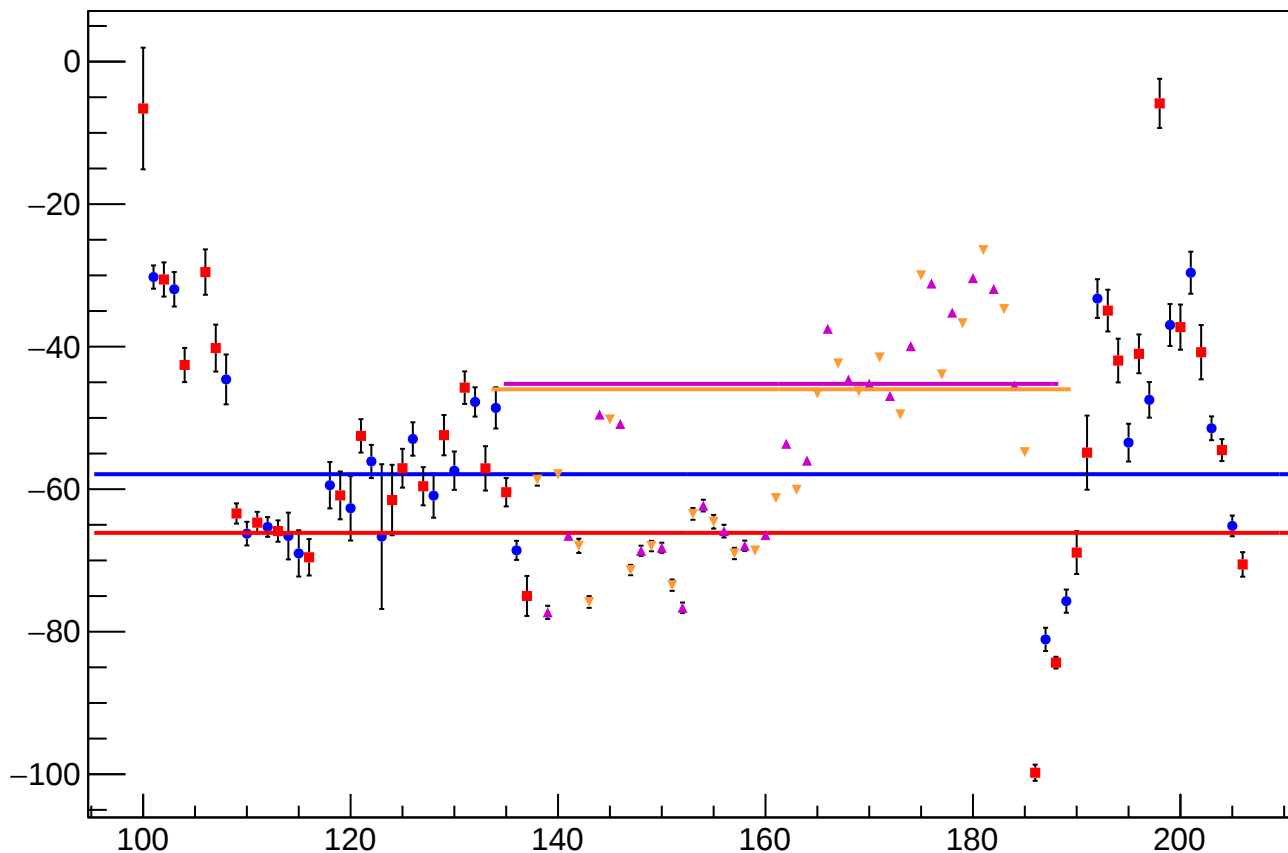
Right: 4.110+/-0.208 χ^2/NDF : 410.8/56

In: 6.280+/-0.083 χ^2/NDF : 4185.4/48

Out: 6.321+/-0.082 χ^2/NDF : 5279.1/55

All: 6.301+/-0.058 χ^2/NDF : 9464.7/104

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected

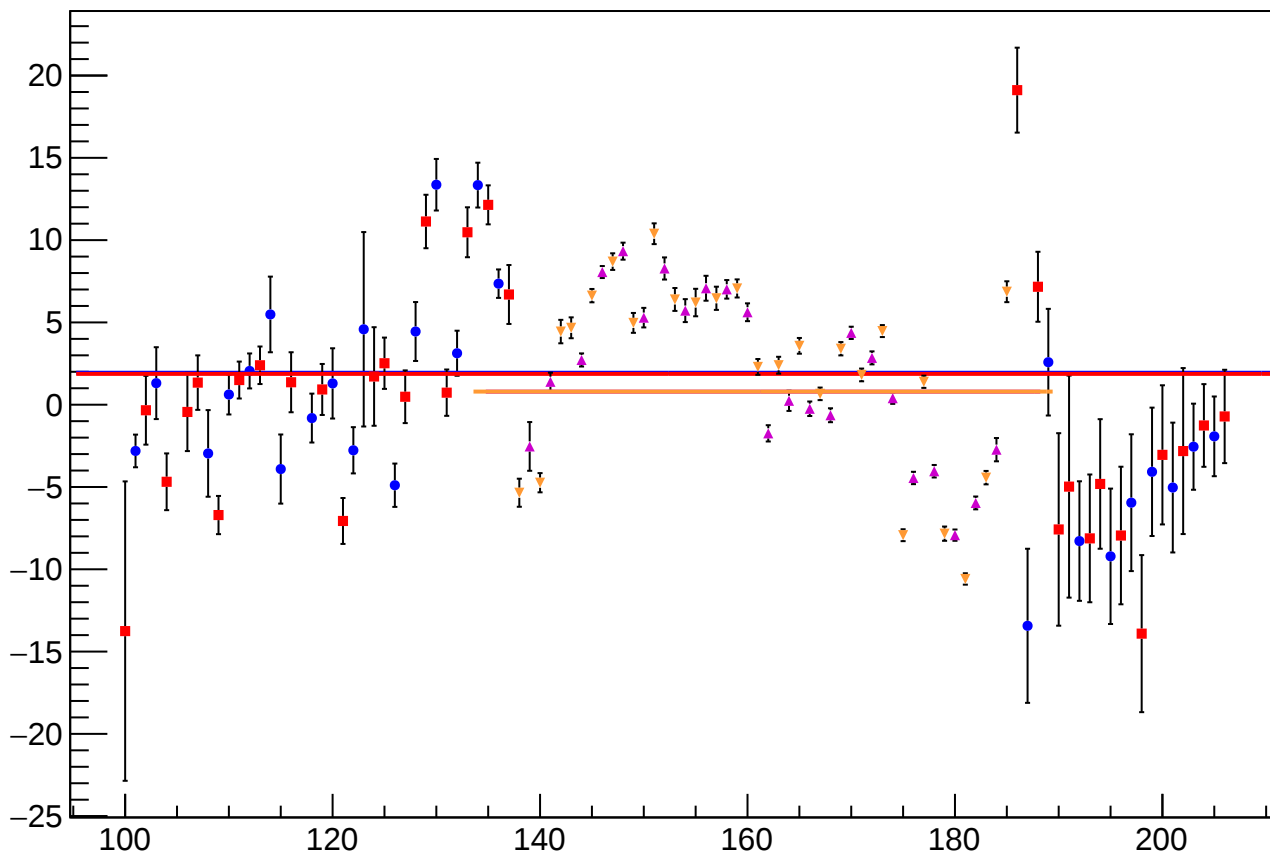


Right In: -57.898±/0.421 χ^2/NDF : 1202.0/25
 Left Out: -45.982±/0.106 χ^2/NDF :17360.1/24
 Right Out: -66.129±/0.371 χ^2/NDF : 2890.0/30
 Left In: -45.222±/0.107 χ^2/NDF :15600.2/22

Left: -45.605±/0.075 χ^2/NDF : 32985.7/47
 Right: -62.536±/0.278 χ^2/NDF : 4306.9/56
 In: -45.992±/0.104 χ^2/NDF :17652.0/48
 Out: -47.510±/0.102 χ^2/NDF :22976.2/55

All: -46.764±/0.073 χ^2/NDF : 40736.6/104

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.941 ± 0.332 χ^2/NDF : 285.6/25

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.873 ± 0.334 χ^2/NDF : 349.7/30

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

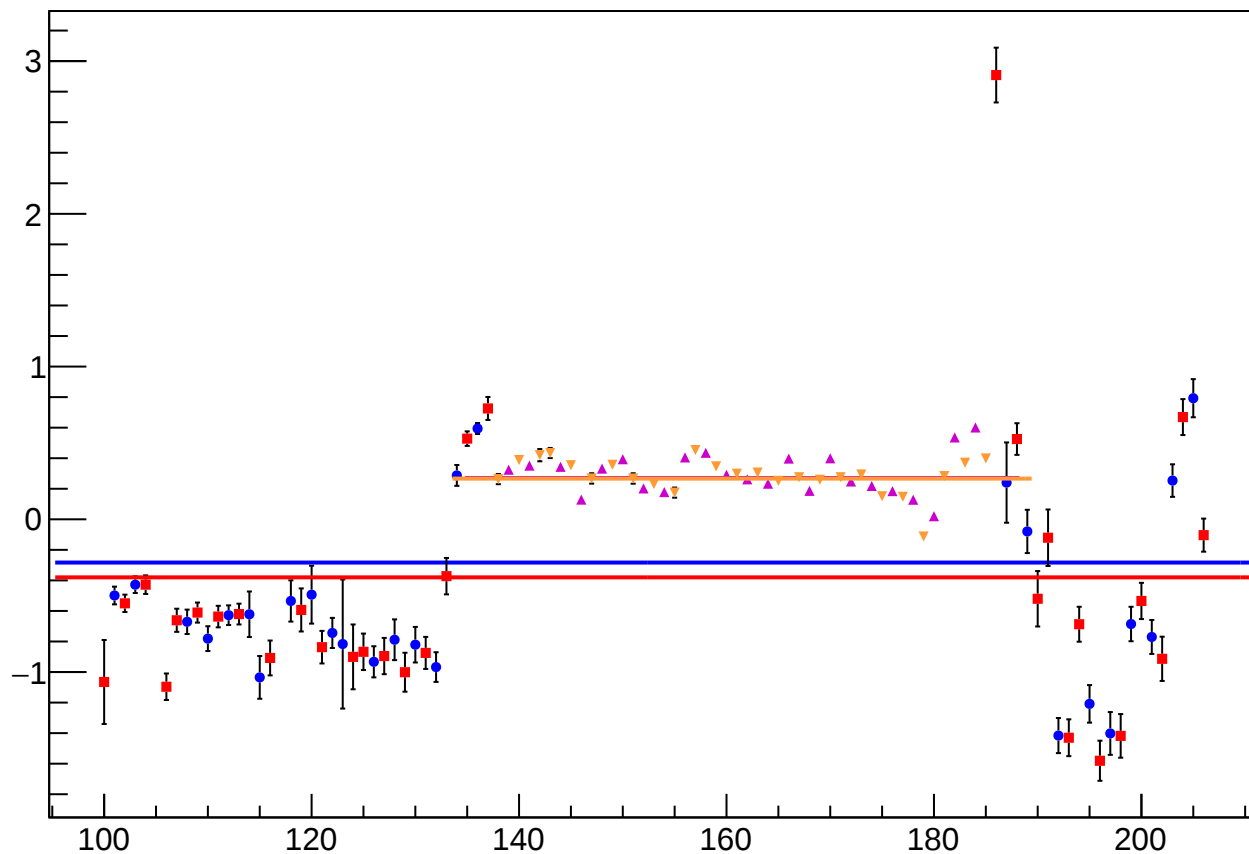
Right: 1.908 ± 0.236 χ^2/NDF : 635.3/56

In: 0.882 ± 0.093 χ^2/NDF : 2989.1/48

Out: 0.879 ± 0.092 χ^2/NDF : 4119.2/55

All: 0.880 ± 0.065 χ^2/NDF : 7108.3/104

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.283 ± 0.017 χ^2/NDF : 1319.5/25

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.380 ± 0.017 χ^2/NDF : 1581.0/30

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

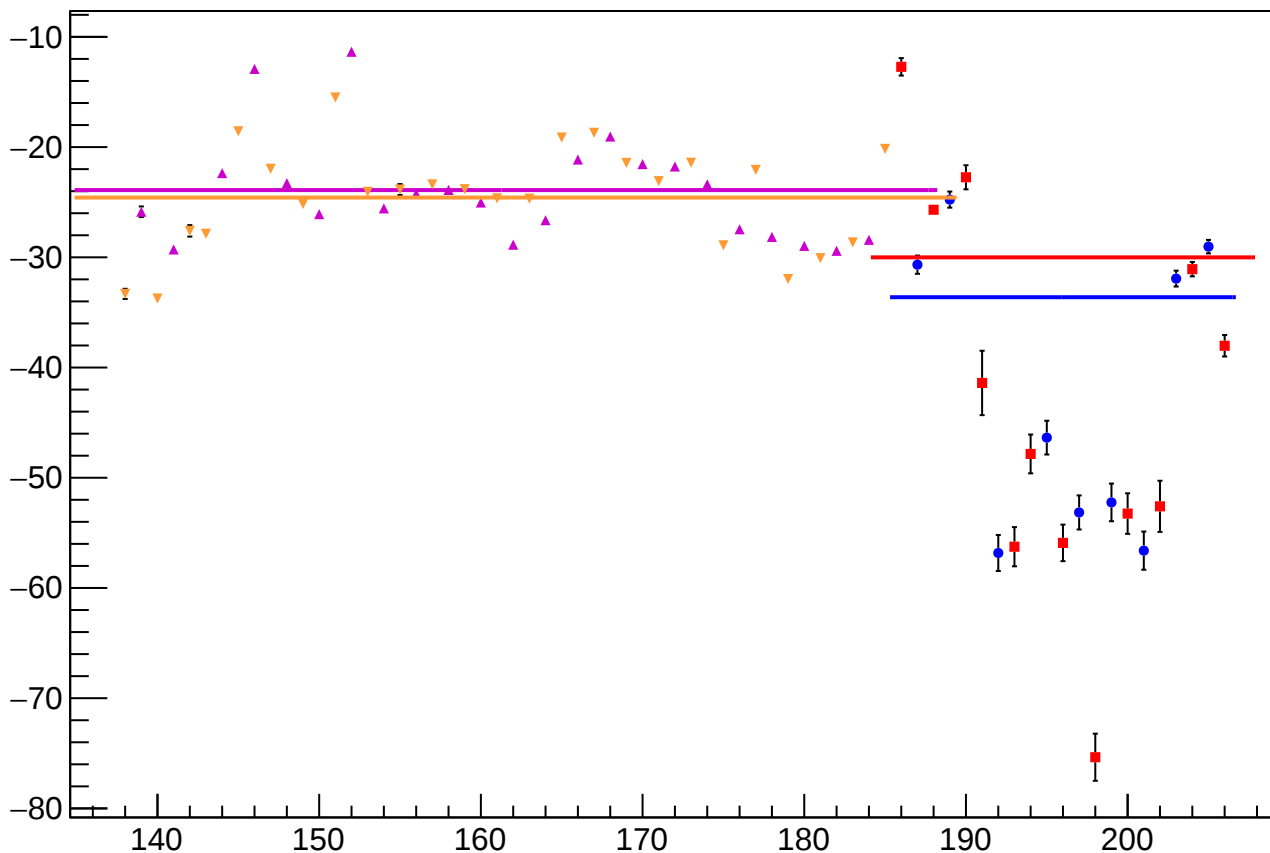
Right: -0.332 ± 0.012 χ^2/NDF : 2916.6/56

In: 0.236 ± 0.004 χ^2/NDF : 3255.8/48

Out: 0.226 ± 0.004 χ^2/NDF : 3646.0/55

All: 0.231 ± 0.003 χ^2/NDF : 6904.3/104

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.620 ± 0.319 $\chi^2/\text{NDF}: 946.4/8$
 Left Out: -24.577 ± 0.051 $\chi^2/\text{NDF}: 8590.4/24$
 Right Out: -30.005 ± 0.277 $\chi^2/\text{NDF}: 1974.5/11$
 Left In: -23.901 ± 0.051 $\chi^2/\text{NDF}: 9154.9/22$

Left: -24.240 ± 0.036 $\chi^2/\text{NDF}: 17833.1/47$

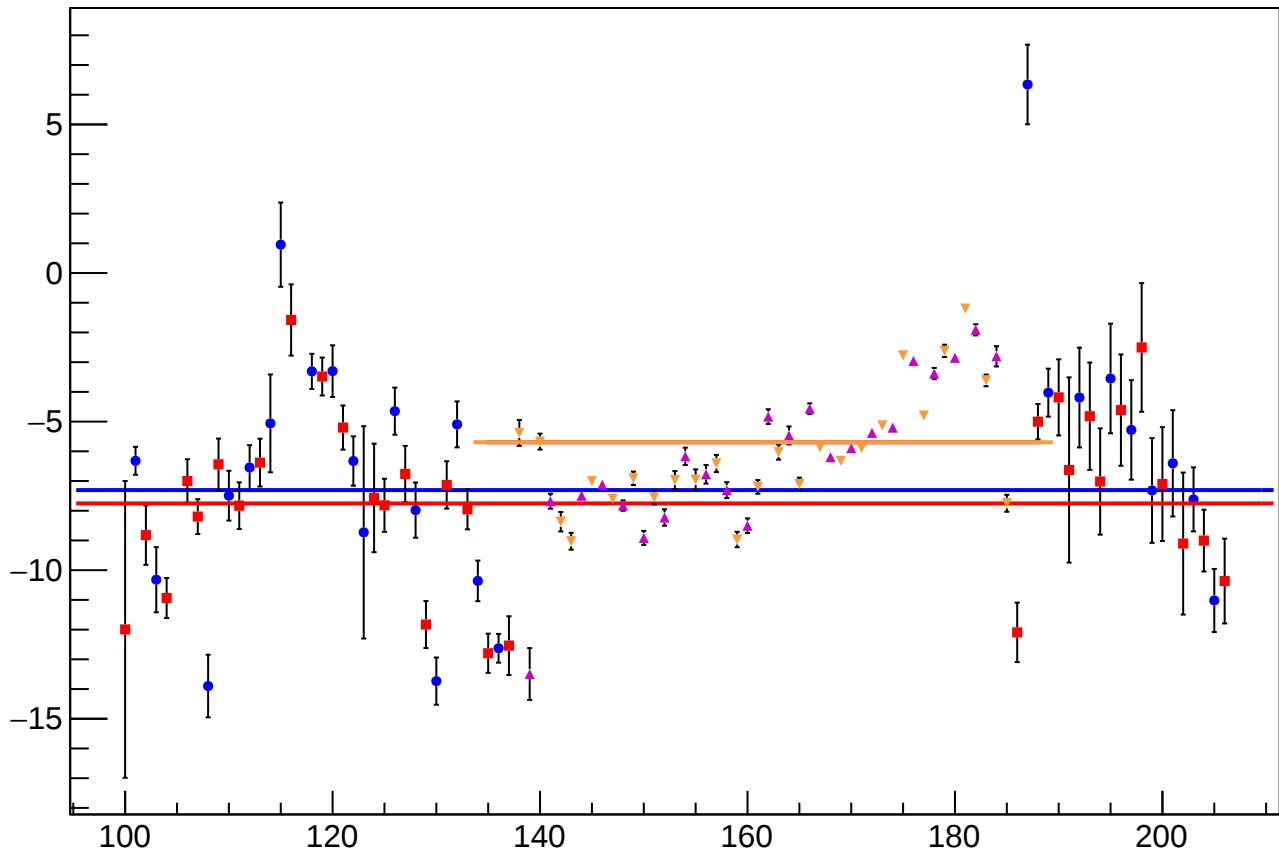
Right: -31.557 ± 0.209 $\chi^2/\text{NDF}: 2993.9/20$

In: -24.144 ± 0.050 $\chi^2/\text{NDF}: 11004.1/31$

Out: -24.755 ± 0.050 $\chi^2/\text{NDF}: 10936.2/36$

All: -24.451 ± 0.036 $\chi^2/\text{NDF}: 22014.2/68$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.305+/-0.172 χ^2/NDF : 525.3/25

Left Out: -5.694+/-0.041 χ^2/NDF : 2258.3/24

Right Out: -7.754+/-0.166 χ^2/NDF : 289.4/30

Left In: -5.696+/-0.041 χ^2/NDF : 2309.8/22

Left: -5.695+/-0.029 χ^2/NDF : 4568.1/47

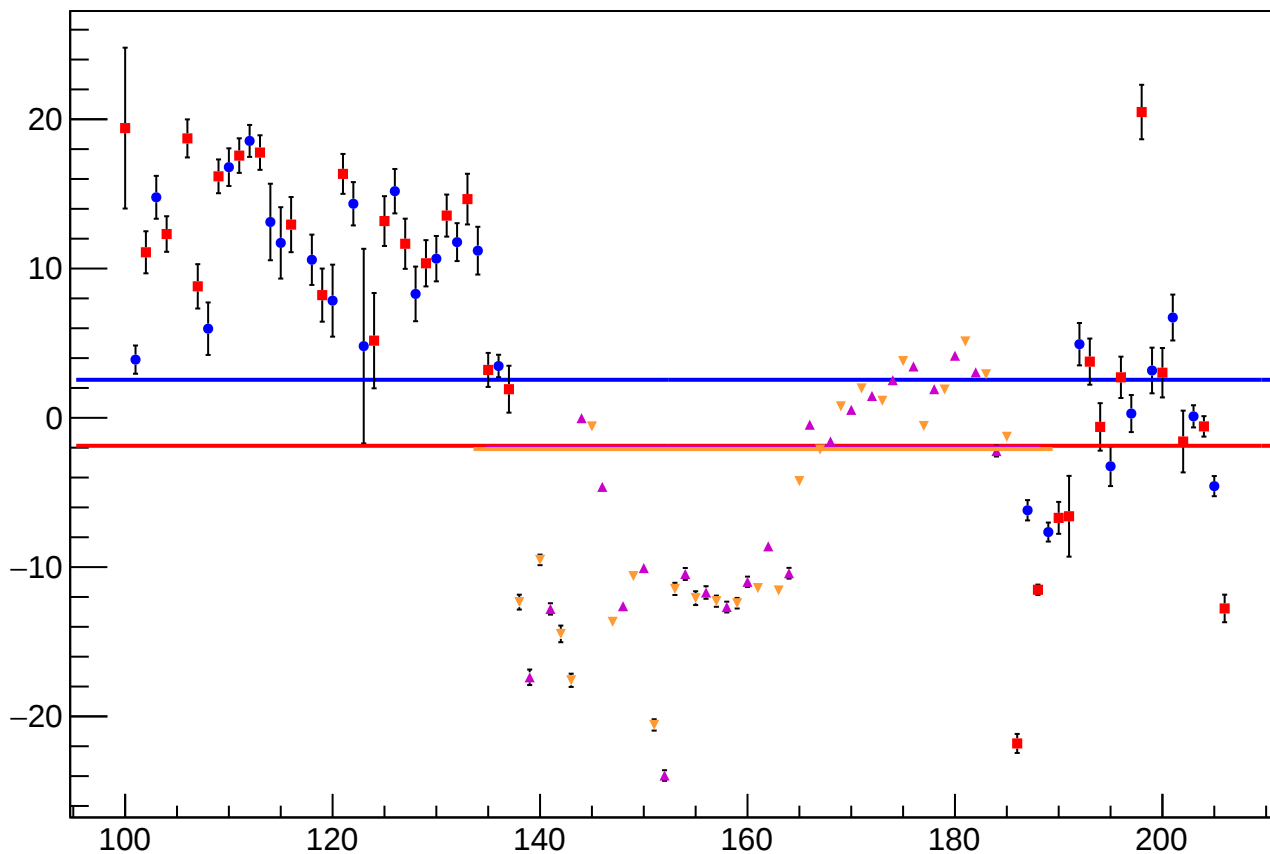
Right: -7.537+/-0.119 χ^2/NDF : 818.2/56

In: -5.782+/-0.040 χ^2/NDF : 2918.2/48

Out: -5.813+/-0.040 χ^2/NDF : 2693.2/55

All: -5.798+/-0.028 χ^2/NDF : 5611.7/104

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

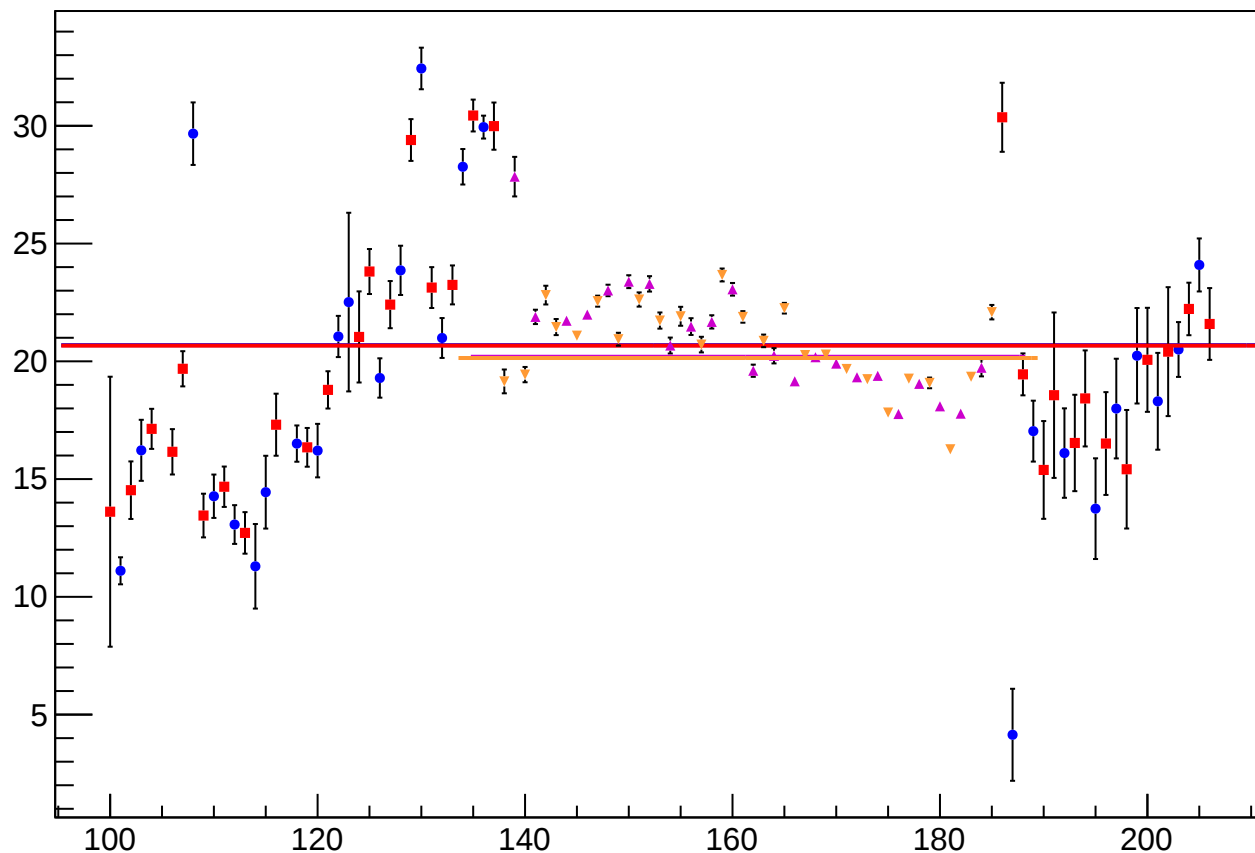


Right In: 2.548 ± 0.224 $\chi^2/\text{NDF}: 1325.4/25$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -1.873 ± 0.195 $\chi^2/\text{NDF}: 4220.1/30$
 Left In: -1.980 ± 0.051 $\chi^2/\text{NDF}: 15382.3/22$

Left: -2.036 ± 0.036 $\chi^2/\text{NDF}: 31690.0/47$
 Right: 0.030 ± 0.147 $\chi^2/\text{NDF}: 5767.3/56$
 In: -1.755 ± 0.050 $\chi^2/\text{NDF}: 17096.1/48$
 Out: -2.078 ± 0.050 $\chi^2/\text{NDF}: 20526.6/55$

All: -1.917 ± 0.035 $\chi^2/\text{NDF}: 37643.6/104$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.687 $\pm$ 0.196 χ^2 /NDF: 1320.5/25

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF: 1419.1/24

Right Out: 20.666 $\pm$ 0.194 χ^2 /NDF: 789.8/30

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

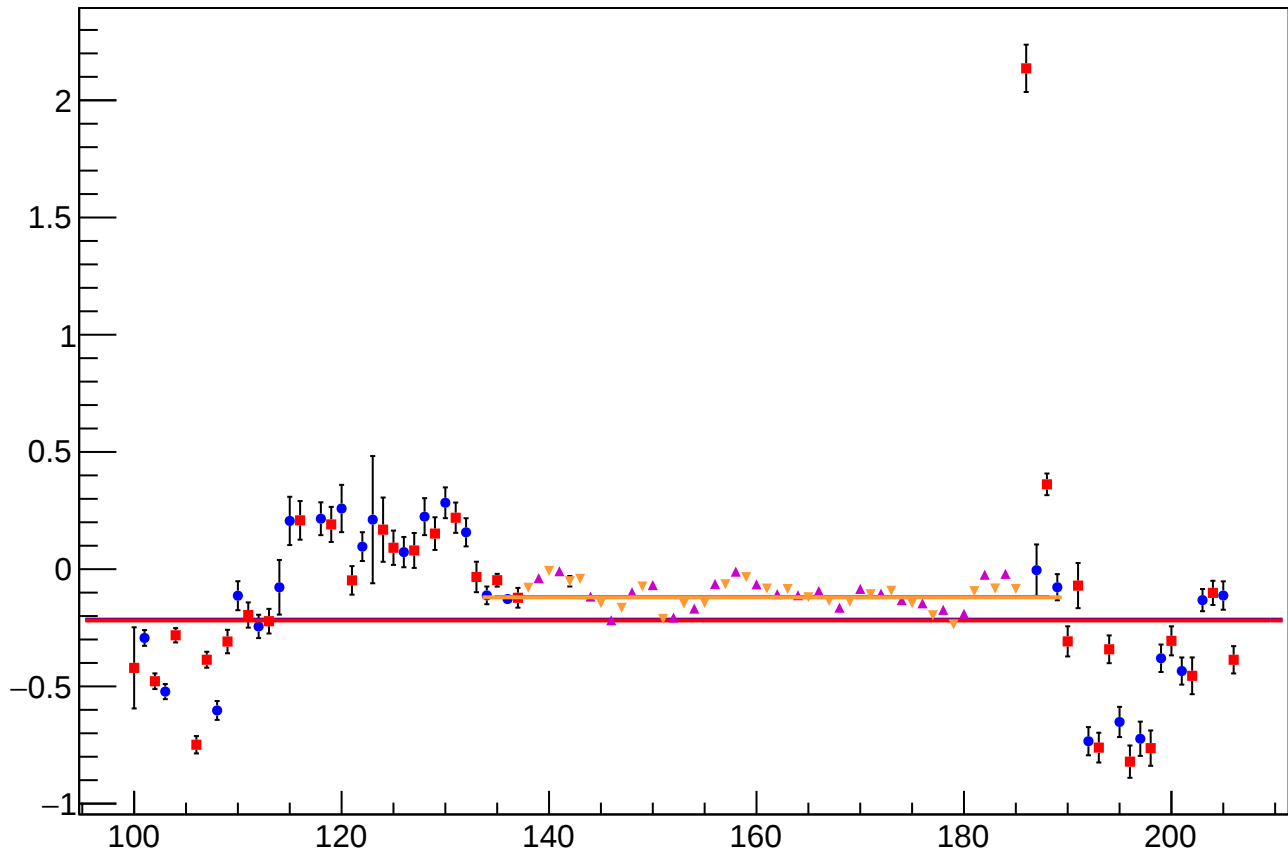
Right: 20.676 $\pm$ 0.138 χ^2 /NDF: 2110.3/56

In: 20.220 $\pm$ 0.045 χ^2 /NDF: 2773.9/48

Out: 20.169 $\pm$ 0.045 χ^2 /NDF: 2215.8/55

All: 20.194 $\pm$ 0.032 χ^2 /NDF: 4990.3/104

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.215 ± 0.010 $\chi^2/\text{NDF}: 678.4/25$

Left Out: -0.120 ± 0.002 $\chi^2/\text{NDF}: 530.4/24$

Right Out: -0.219 ± 0.009 $\chi^2/\text{NDF}: 1470.2/30$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 721.8/22$

Left: -0.119 ± 0.001 $\chi^2/\text{NDF}: 1252.4/47$

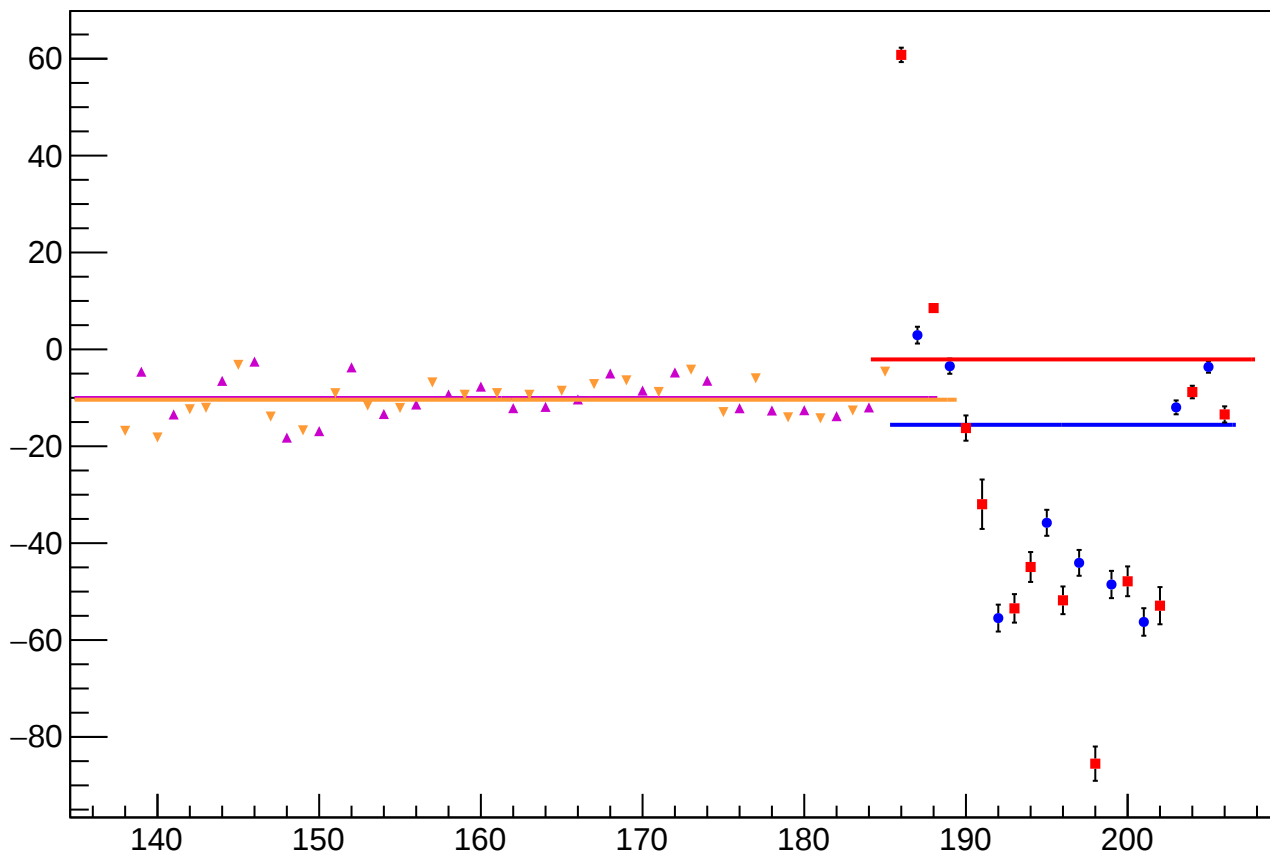
Right: -0.217 ± 0.007 $\chi^2/\text{NDF}: 2148.7/56$

In: -0.123 ± 0.002 $\chi^2/\text{NDF}: 1492.9/48$

Out: -0.125 ± 0.002 $\chi^2/\text{NDF}: 2104.9/55$

All: -0.124 ± 0.001 $\chi^2/\text{NDF}: 3598.2/104$

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.568 ± 0.622 $\chi^2/\text{NDF}: 1000.5/8$

Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$

Right Out: -2.071 ± 0.531 $\chi^2/\text{NDF}: 3832.2/11$

Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$

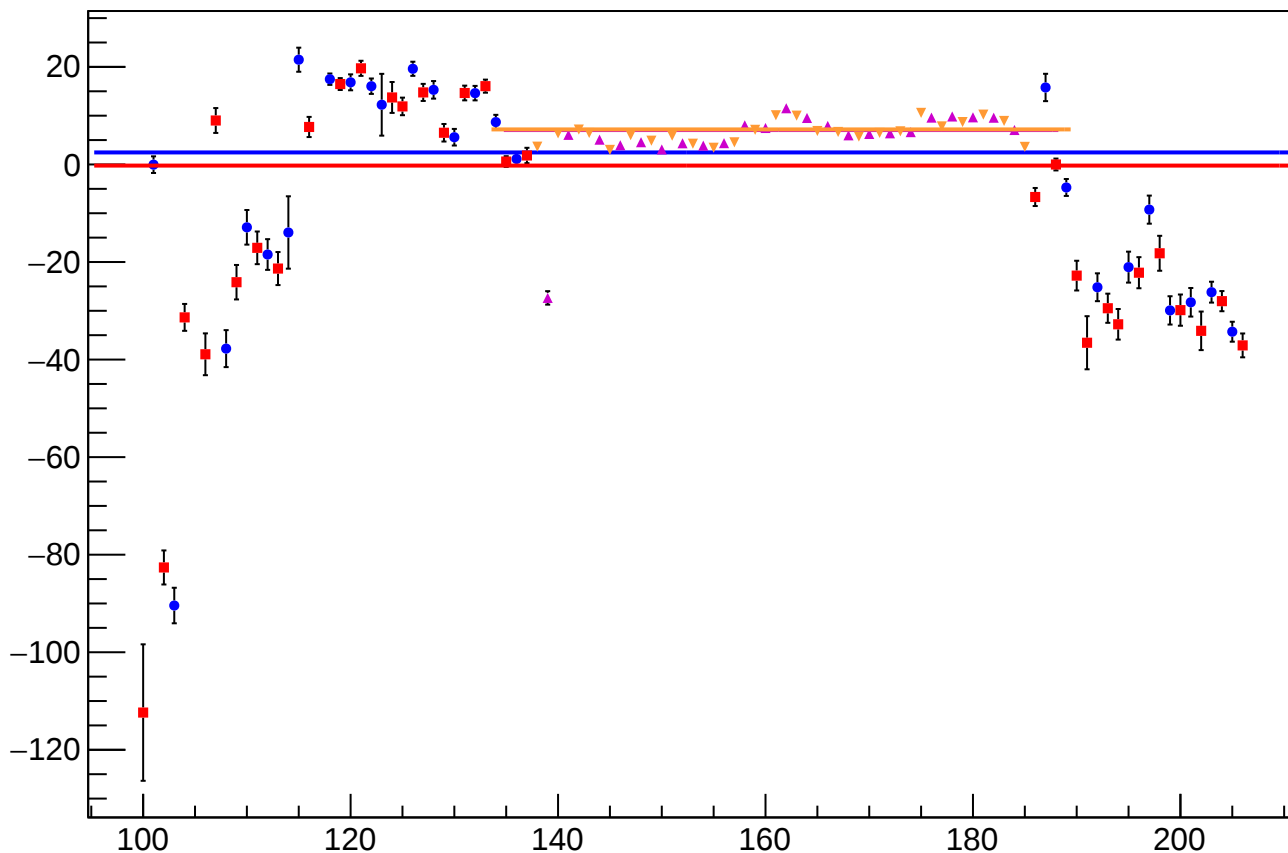
Right: -7.765 ± 0.404 $\chi^2/\text{NDF}: 5105.1/20$

In: -10.148 ± 0.089 $\chi^2/\text{NDF}: 2836.7/31$

Out: -10.169 ± 0.087 $\chi^2/\text{NDF}: 6182.6/36$

All: -10.159 ± 0.062 $\chi^2/\text{NDF}: 9019.3/68$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.465 ± 0.364 χ^2/NDF : 2435.0/25

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: -0.232 ± 0.369 χ^2/NDF : 2676.0/30

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

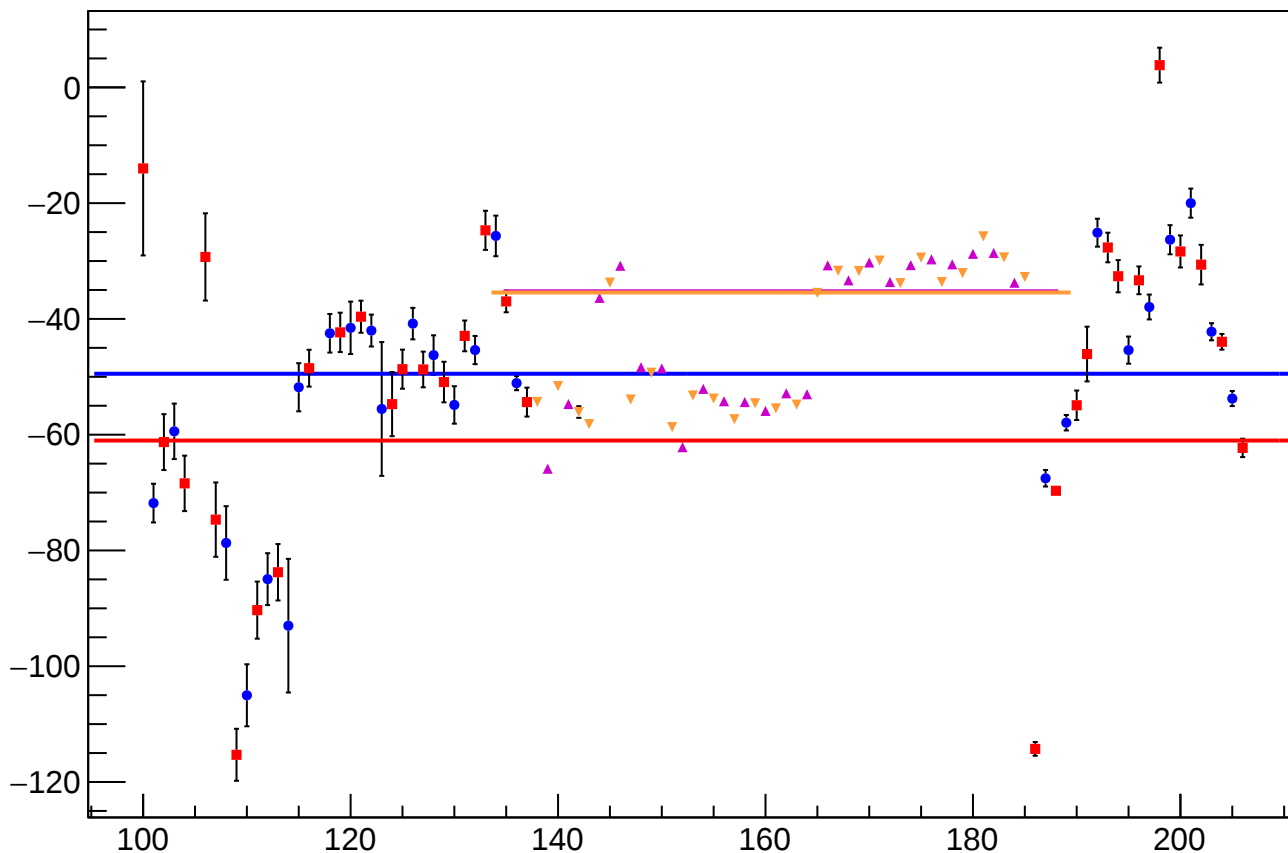
Right: 1.133 ± 0.259 χ^2/NDF : 5138.1/56

In: 6.870 ± 0.073 χ^2/NDF : 4123.0/48

Out: 6.901 ± 0.072 χ^2/NDF : 3982.1/55

All: 6.886 ± 0.051 χ^2/NDF : 8105.2/104

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -49.474 ± 0.456 χ^2/NDF : 925.4/25

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -61.013 ± 0.399 χ^2/NDF : 4143.5/30

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

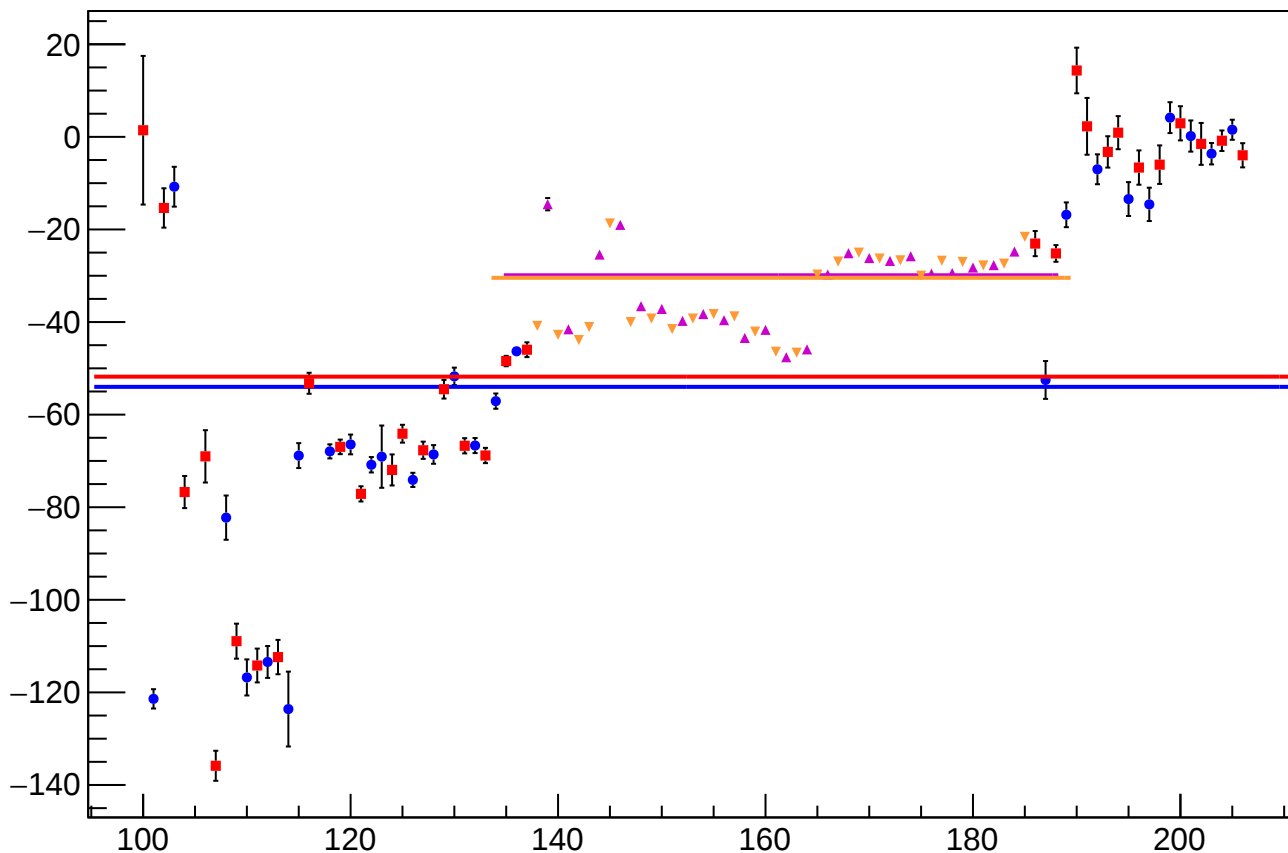
Right: -56.010 ± 0.300 χ^2/NDF : 5431.3/56

In: -35.764 ± 0.088 χ^2/NDF : 13466.7/48

Out: -36.646 ± 0.087 χ^2/NDF : 20838.1/55

All: -36.212 ± 0.062 χ^2/NDF : 34355.5/104

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -54.000 ± 0.409 $\chi^2/\text{NDF}: 4793.8/25$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -51.797 ± 0.424 $\chi^2/\text{NDF}: 4785.1/30$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

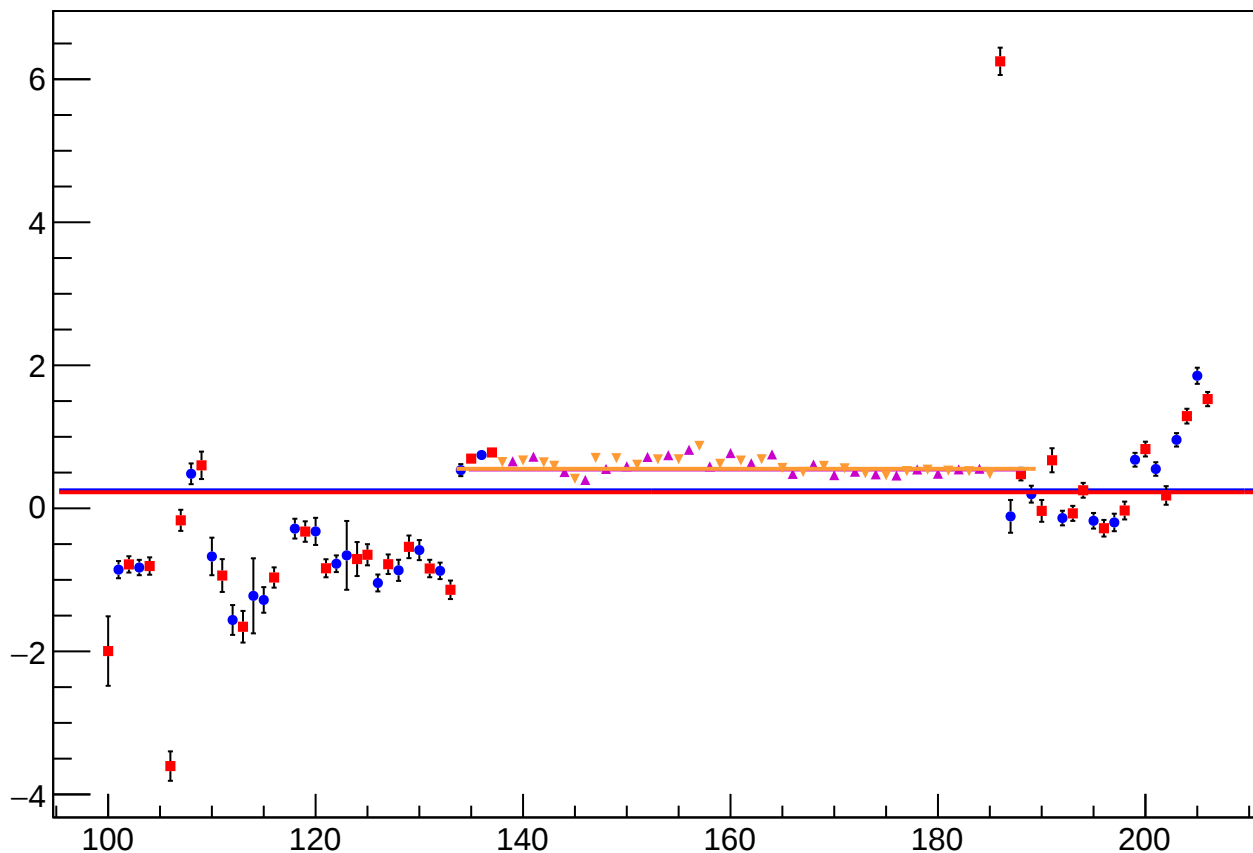
Right: -52.940 ± 0.294 $\chi^2/\text{NDF}: 9592.9/56$

In: -30.837 ± 0.081 $\chi^2/\text{NDF}: 15248.3/48$

Out: -31.208 ± 0.080 $\chi^2/\text{NDF}: 15393.0/55$

All: -31.024 ± 0.057 $\chi^2/\text{NDF}: 30652.0/104$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.251+/-0.020 χ^2/NDF : 1337.4/25

Left Out: 0.553+/-0.004 χ^2/NDF : 542.1/24

Right Out: 0.225+/-0.021 χ^2/NDF : 2629.2/30

Left In: 0.544+/-0.004 χ^2/NDF : 655.9/22

Left: 0.548+/-0.003 χ^2/NDF : 1200.9/47

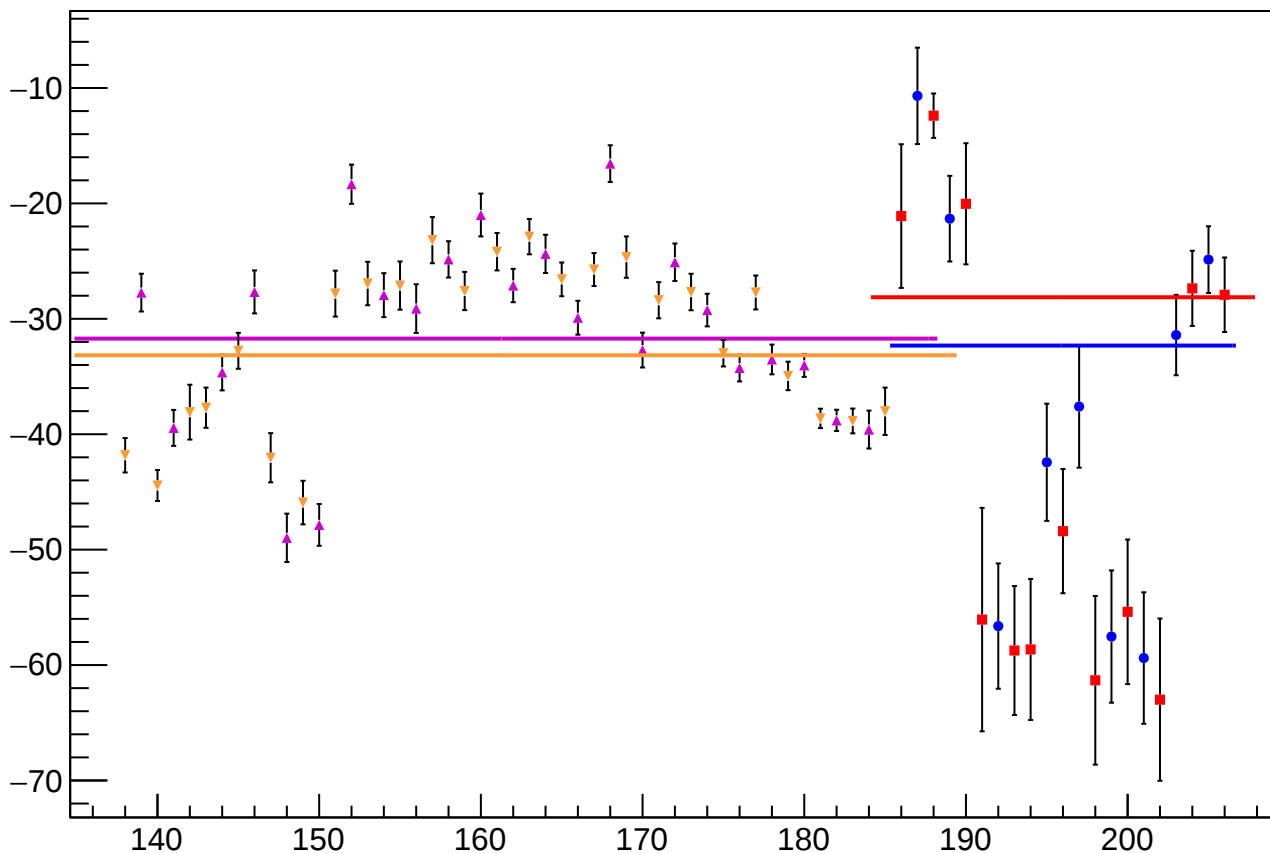
Right: 0.239+/-0.014 χ^2/NDF : 3967.5/56

In: 0.534+/-0.004 χ^2/NDF : 2197.5/48

Out: 0.543+/-0.004 χ^2/NDF : 3415.1/55

All: 0.538+/-0.003 χ^2/NDF : 5615.5/104

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



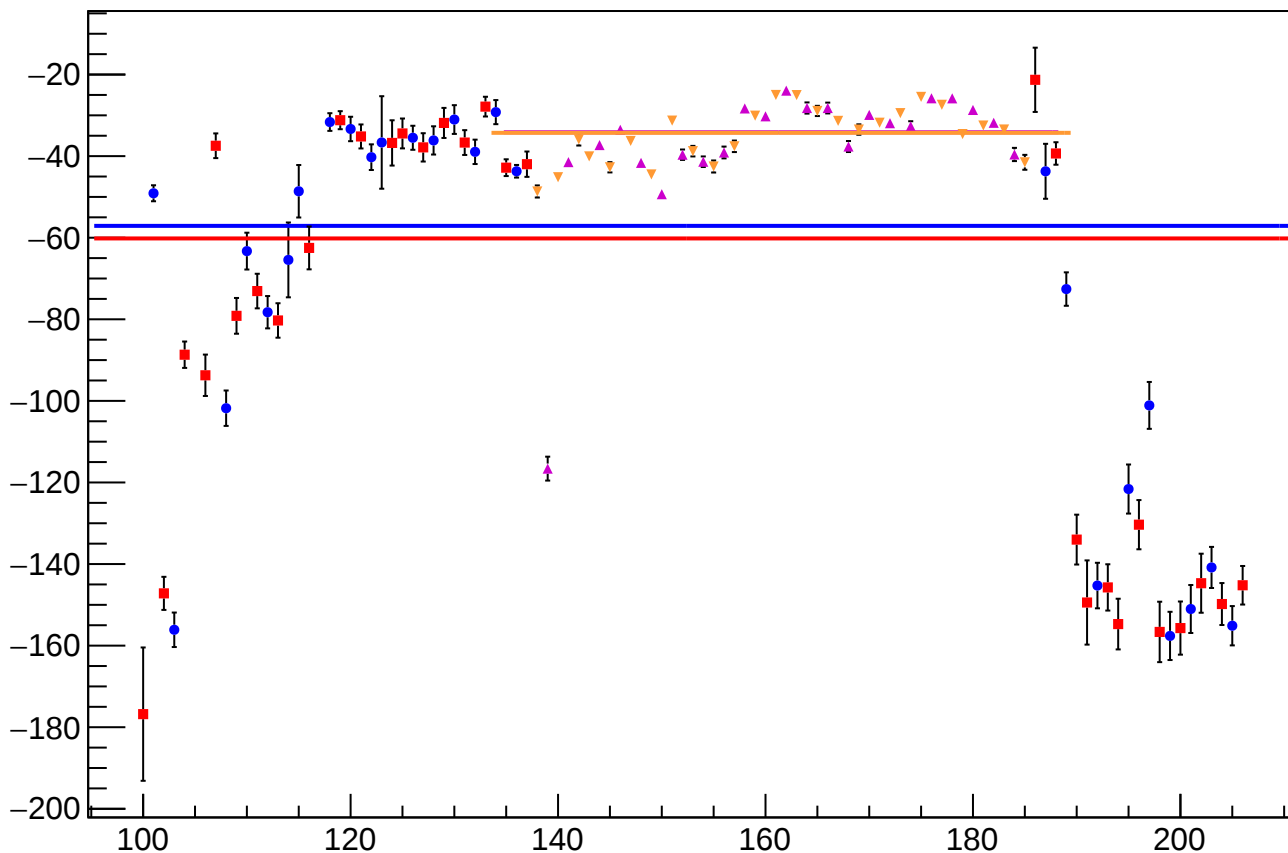
Right In: -32.318 ± 1.412 $\chi^2/\text{NDF}: 109.3/8$
 Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$
 Right Out: -28.131 ± 1.203 $\chi^2/\text{NDF}: 212.2/11$
 Left In: -31.714 ± 0.309 $\chi^2/\text{NDF}: 542.3/22$

Left: -32.456 ± 0.215 $\chi^2/\text{NDF}: 1053.6/47$
 Right: -29.893 ± 0.916 $\chi^2/\text{NDF}: 326.6/20$

In: -31.742 ± 0.302 $\chi^2/\text{NDF}: 651.7/31$
 Out: -32.862 ± 0.291 $\chi^2/\text{NDF}: 728.8/36$

All: -32.322 ± 0.210 $\chi^2/\text{NDF}: 1387.6/68$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.095 ± 0.676 $\chi^2/\text{NDF}: 2959.3/25$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -60.178 ± 0.686 $\chi^2/\text{NDF}: 3539.5/30$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

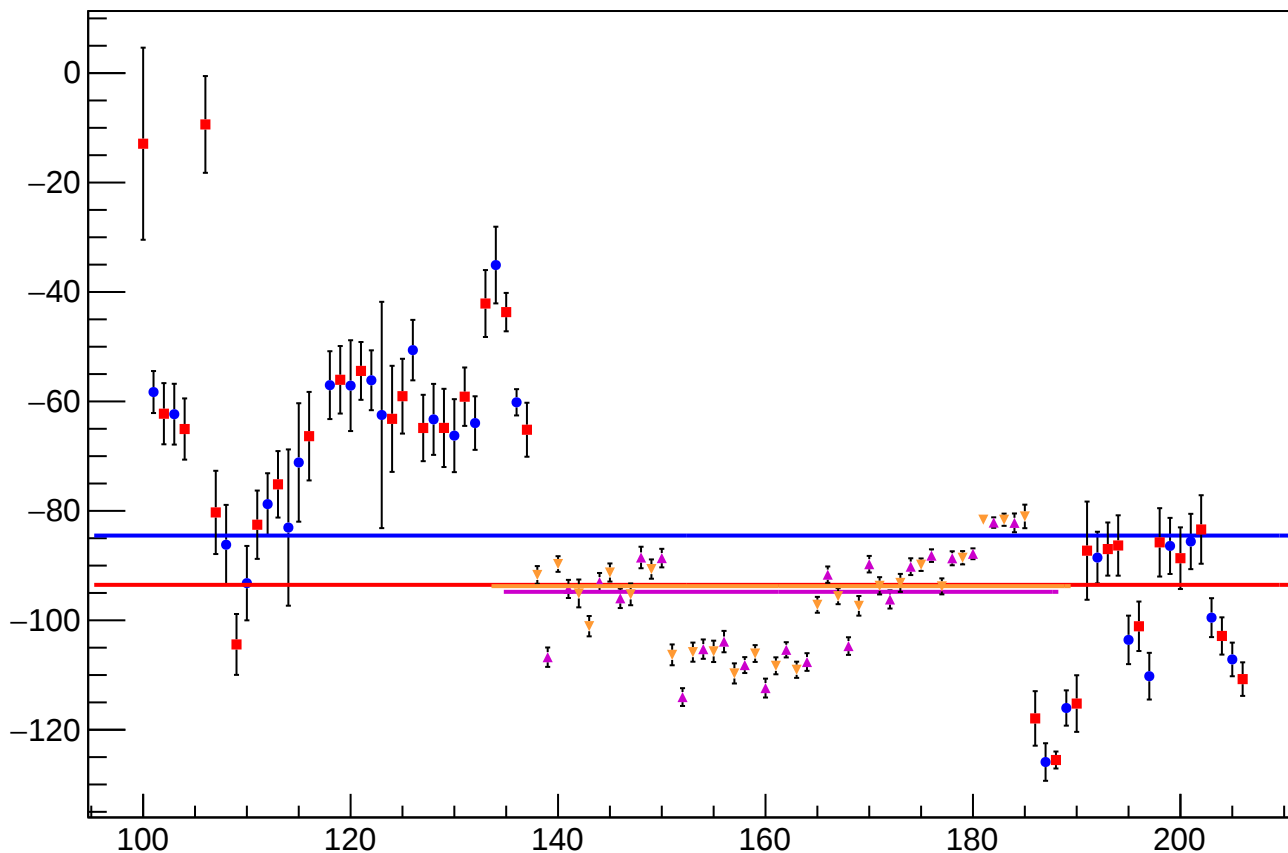
Right: -58.614 ± 0.482 $\chi^2/\text{NDF}: 6509.1/56$

In: -36.919 ± 0.235 $\chi^2/\text{NDF}: 5424.0/48$

Out: -37.139 ± 0.228 $\chi^2/\text{NDF}: 5501.3/55$

All: -37.033 ± 0.164 $\chi^2/\text{NDF}: 10925.7/104$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -84.512 ± 0.924 χ^2/NDF : 720.3/25

Left Out: -93.754 ± 0.302 χ^2/NDF : 883.1/24

Right Out: -93.519 ± 0.837 χ^2/NDF : 1230.1/30

Left In: -94.796 ± 0.308 χ^2/NDF : 974.7/22

Left: -94.264 ± 0.216 χ^2/NDF : 1863.6/47

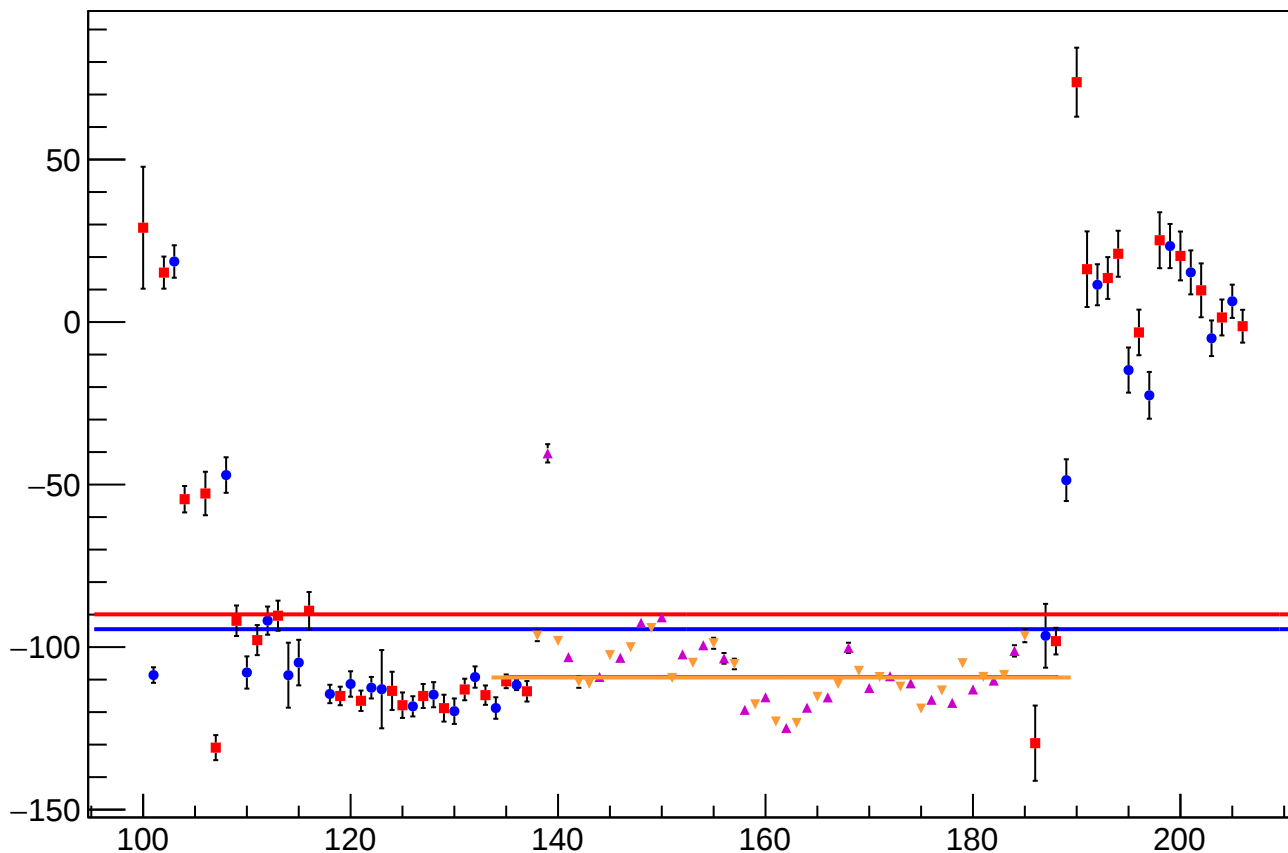
Right: -89.462 ± 0.620 χ^2/NDF : 2002.6/56

In: -93.766 ± 0.293 χ^2/NDF : 1806.4/48

Out: -93.727 ± 0.284 χ^2/NDF : 2113.2/55

All: -93.746 ± 0.204 χ^2/NDF : 3919.6/104

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -94.487 ± 0.765 $\chi^2/\text{NDF}: 2842.3/25$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -89.921 ± 0.788 $\chi^2/\text{NDF}: 3414.0/30$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

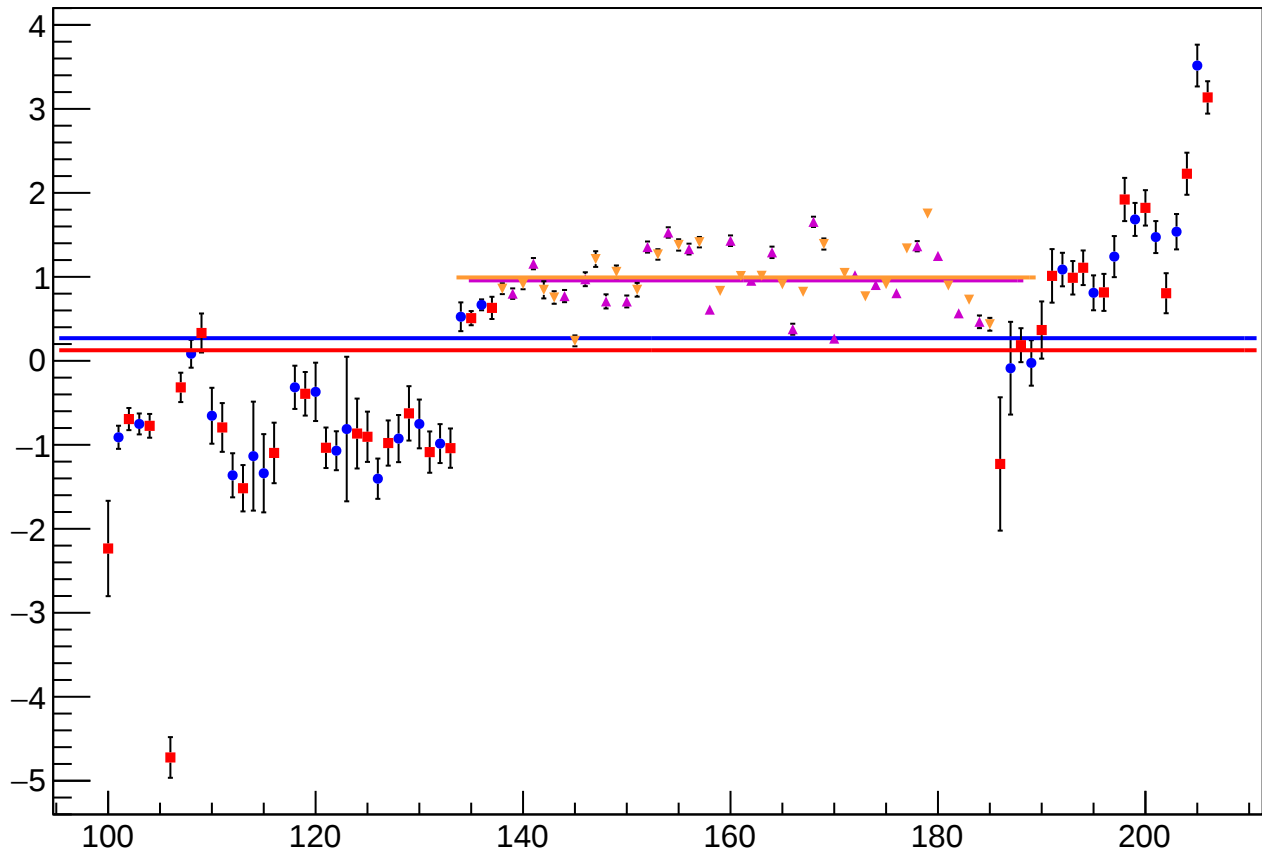
Right: -92.272 ± 0.549 $\chi^2/\text{NDF}: 6273.6/56$

In: -107.449 ± 0.263 $\chi^2/\text{NDF}: 4668.9/48$

Out: -107.294 ± 0.256 $\chi^2/\text{NDF}: 4784.2/55$

All: -107.370 ± 0.184 $\chi^2/\text{NDF}: 9453.3/104$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.270 ± 0.037 χ^2/NDF : 735.7/25

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: 0.126 ± 0.037 χ^2/NDF : 1210.5/30

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

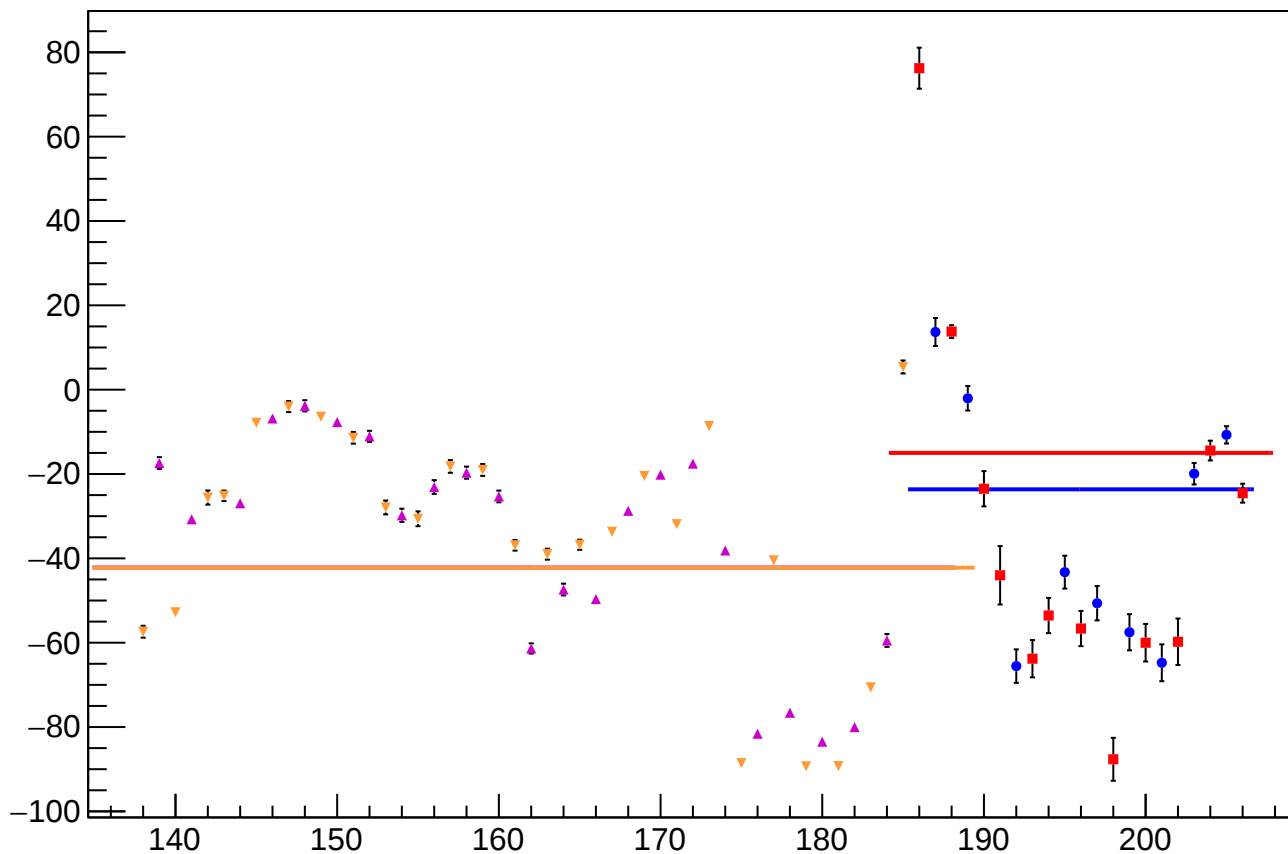
Right: 0.198 ± 0.026 χ^2/NDF : 1953.7/56

In: 0.886 ± 0.012 χ^2/NDF : 1940.8/48

Out: 0.906 ± 0.012 χ^2/NDF : 2340.8/55

All: 0.896 ± 0.008 χ^2/NDF : 4283.0/104

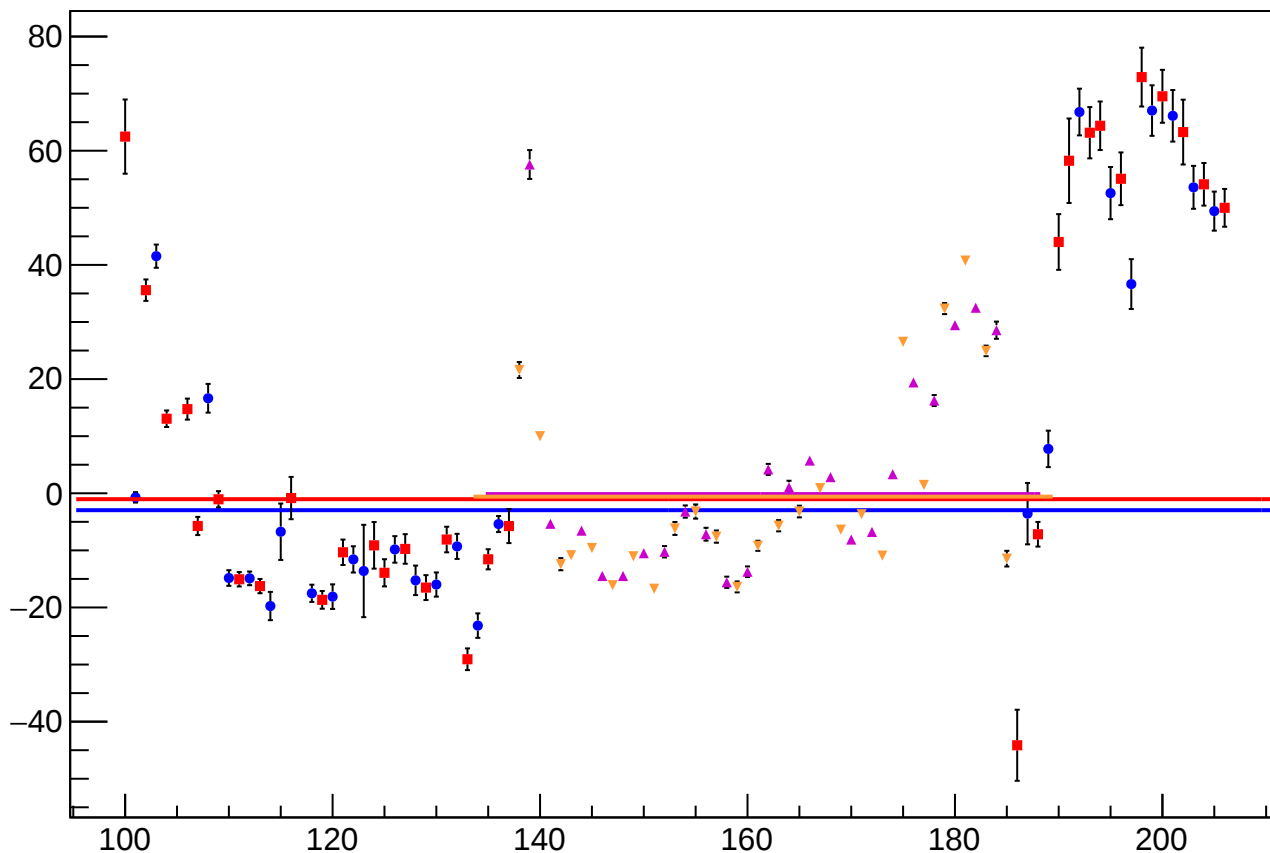
reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.633+/-1.057 χ^2/NDF : 554.3/8
 Left Out: -42.213+/-0.222 χ^2/NDF : 18309.1/24
 Right Out: -14.995+/-0.903 χ^2/NDF : 1433.8/11
 Left In: -42.176+/-0.227 χ^2/NDF : 14575.9/22

Left: -42.195+/-0.159 χ^2/NDF : 32885.0/47
 Right: -18.639+/-0.686 χ^2/NDF : 2026.7/20
 In: -41.358+/-0.222 χ^2/NDF : 15424.6/31
 Out: -40.661+/-0.216 χ^2/NDF : 20600.1/36
 All: -40.999+/-0.155 χ^2/NDF : 36029.7/68

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.961 ± 0.410 χ^2/NDF : 2572.3/25

Left Out: -0.590 ± 0.174 χ^2/NDF : 8750.9/24

Right Out: -1.037 ± 0.403 χ^2/NDF : 3246.7/30

Left In: -0.142 ± 0.179 χ^2/NDF : 6862.5/22

Left: -0.372 ± 0.125 χ^2/NDF : 15616.6/47

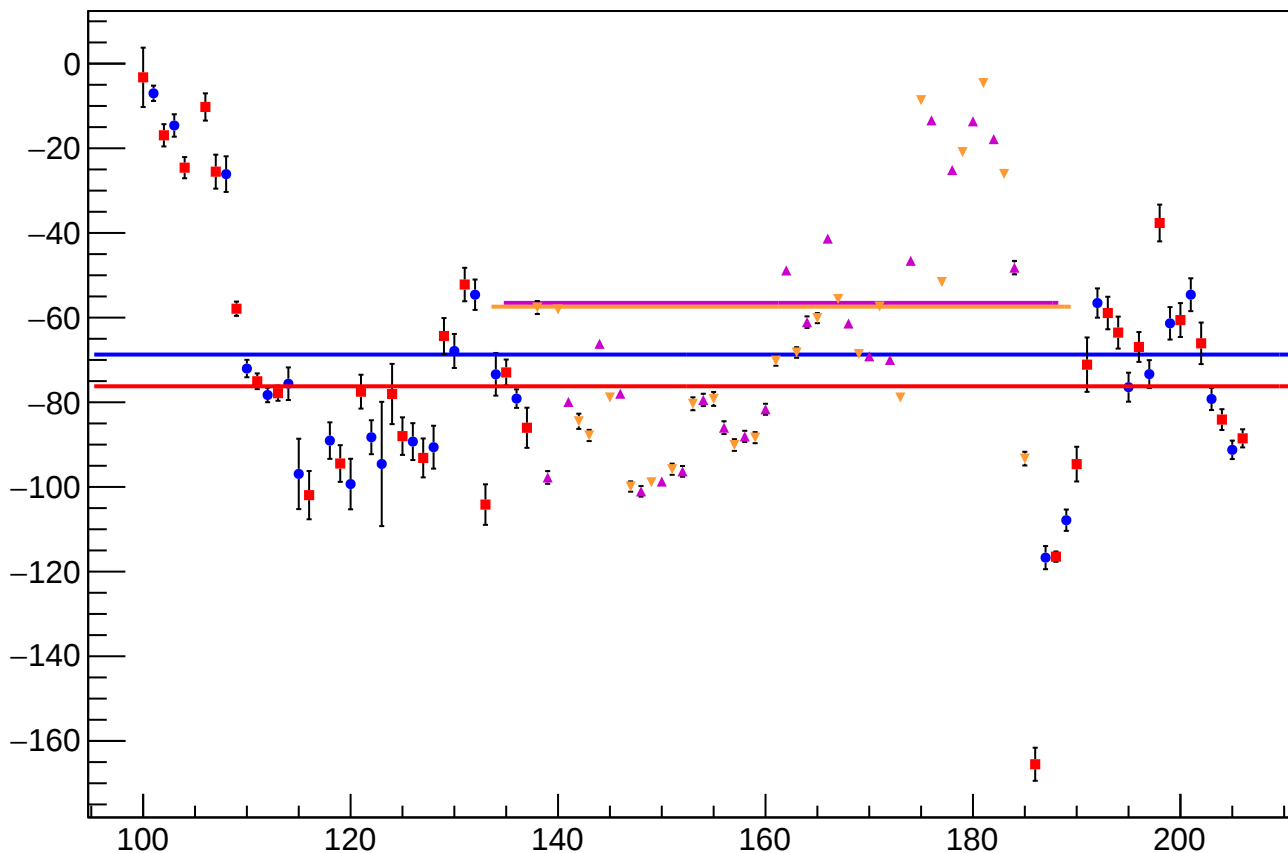
Right: -1.982 ± 0.288 χ^2/NDF : 5830.1/56

In: -0.593 ± 0.164 χ^2/NDF : 9474.4/48

Out: -0.660 ± 0.160 χ^2/NDF : 11998.6/55

All: -0.628 ± 0.115 χ^2/NDF : 21473.1/104

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -68.728 ± 0.594 χ^2/NDF : 2586.3/25

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -76.222 ± 0.527 χ^2/NDF : 3696.9/30

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

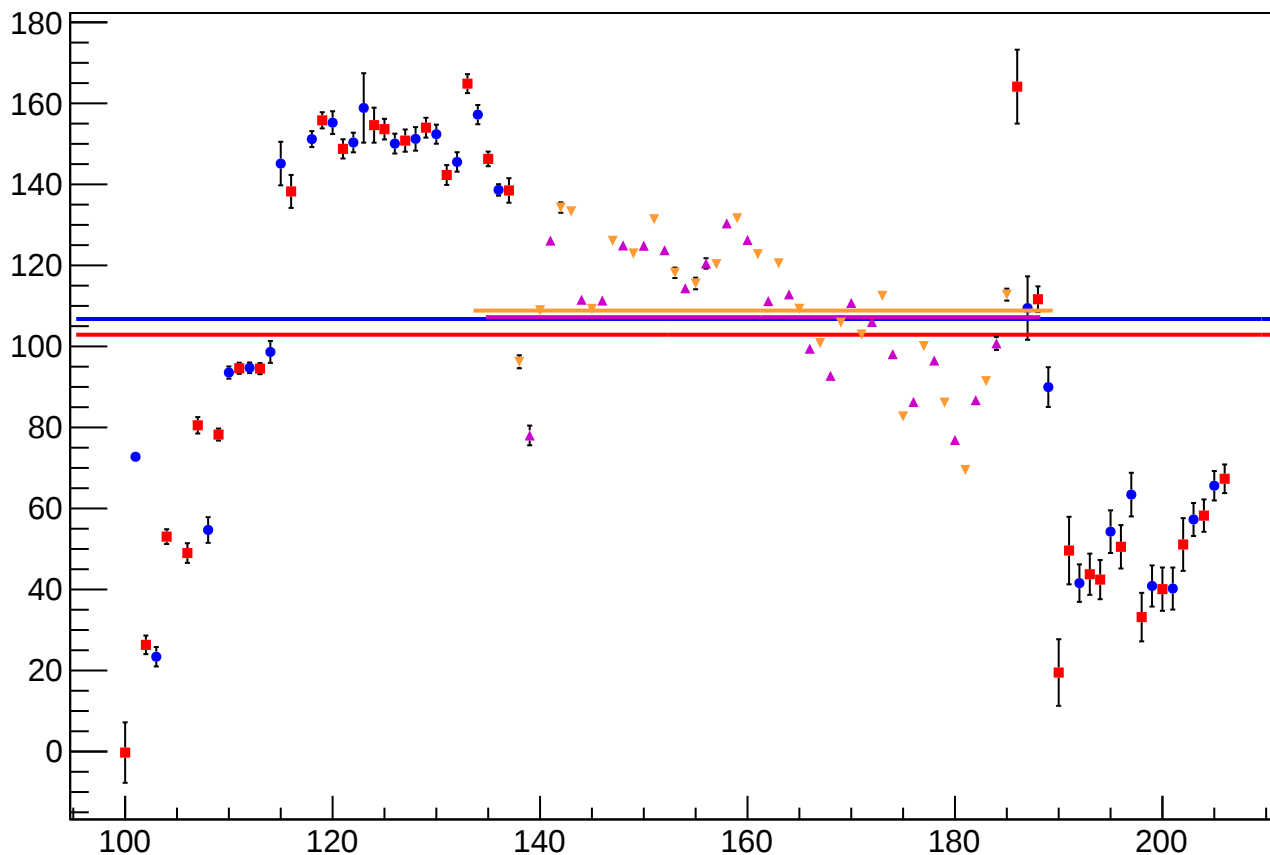
Right: -72.918 ± 0.394 χ^2/NDF : 6372.3/56

In: -58.075 ± 0.212 χ^2/NDF : 19307.5/48

Out: -60.270 ± 0.206 χ^2/NDF : 23379.6/55

All: -59.207 ± 0.148 χ^2/NDF : 42742.3/104

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 106.770 $\pm$ 0.469 χ^2 /NDF: 6926.0/25

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 102.890 $\pm$ 0.462 χ^2 /NDF: 8266.5/30

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

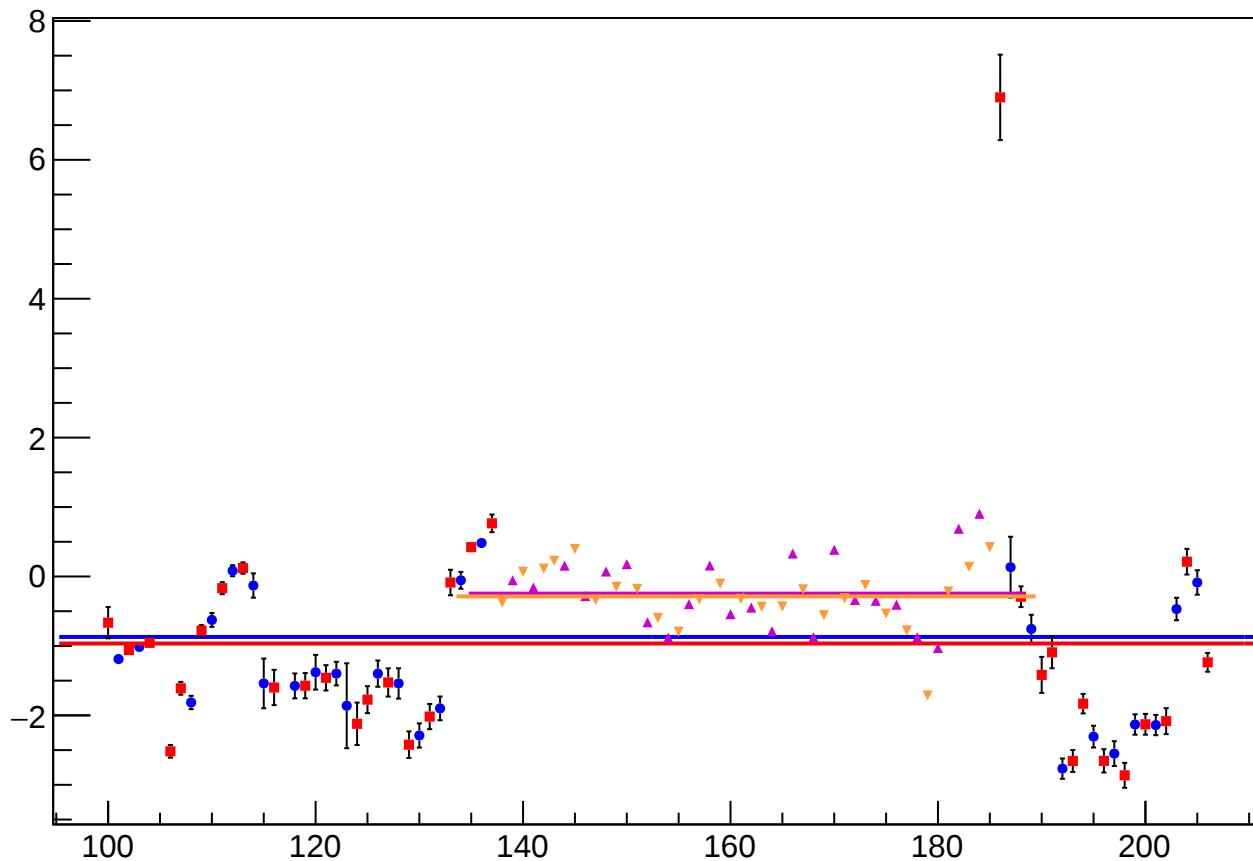
Right: 104.803 $\pm$ 0.329 χ^2 /NDF: 15227.2/56

In: 107.153 $\pm$ 0.186 χ^2 /NDF: 12492.0/48

Out: 107.928 $\pm$ 0.181 χ^2 /NDF: 15807.1/55

All: 107.550 $\pm$ 0.130 χ^2 /NDF: 28308.1/104

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.871 ± 0.024 $\chi^2/\text{NDF}: 1557.1/25$

Left Out: -0.287 ± 0.009 $\chi^2/\text{NDF}: 2052.9/24$

Right Out: -0.965 ± 0.022 $\chi^2/\text{NDF}: 2034.0/30$

Left In: -0.247 ± 0.009 $\chi^2/\text{NDF}: 2792.8/22$

Left: -0.267 ± 0.006 $\chi^2/\text{NDF}: 4855.3/47$

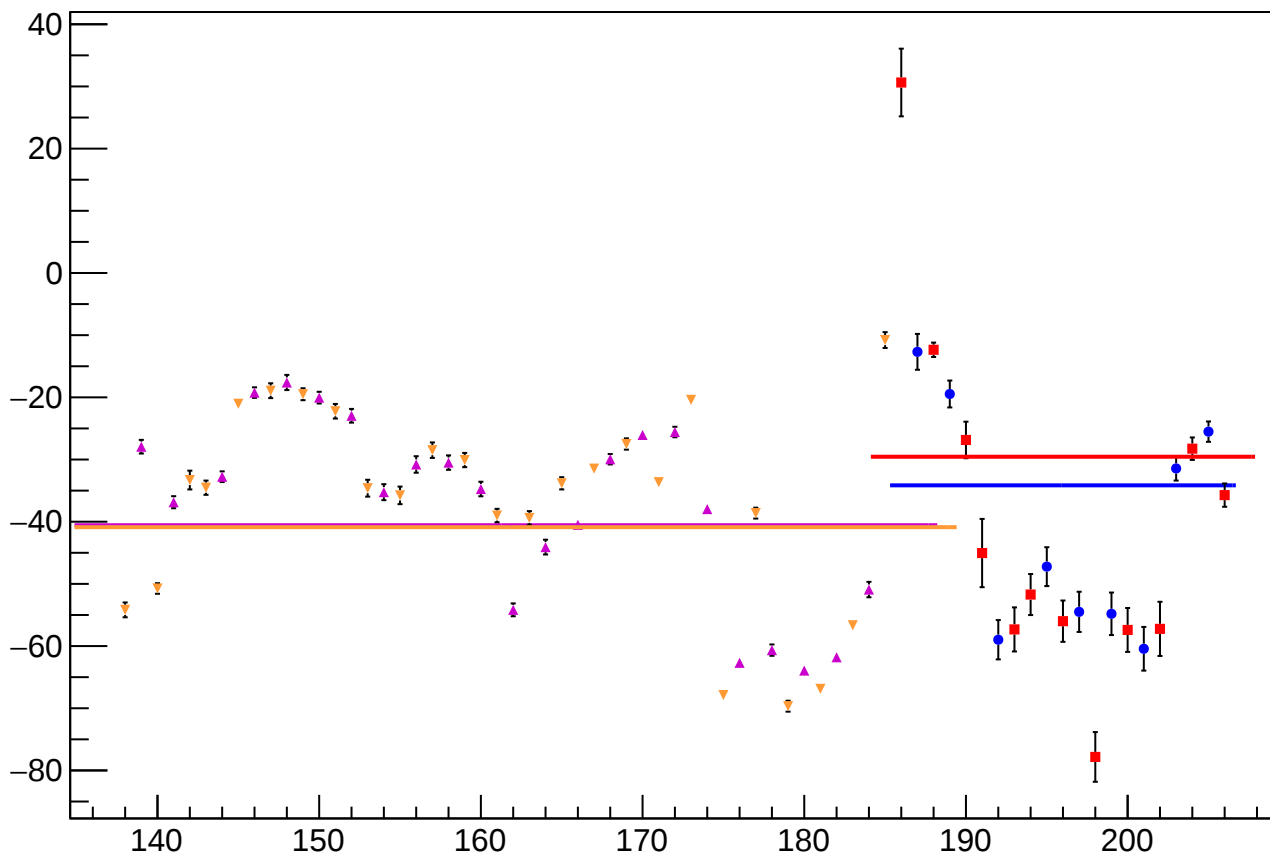
Right: -0.921 ± 0.016 $\chi^2/\text{NDF}: 3599.7/56$

In: -0.330 ± 0.009 $\chi^2/\text{NDF}: 4959.6/48$

Out: -0.386 ± 0.008 $\chi^2/\text{NDF}: 4903.0/55$

All: -0.359 ± 0.006 $\chi^2/\text{NDF}: 9884.0/104$

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -34.151 ± 0.835 $\chi^2/\text{NDF}: 342.6/8$
 Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$
 Right Out: -29.550 ± 0.710 $\chi^2/\text{NDF}: 782.7/11$
 Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$

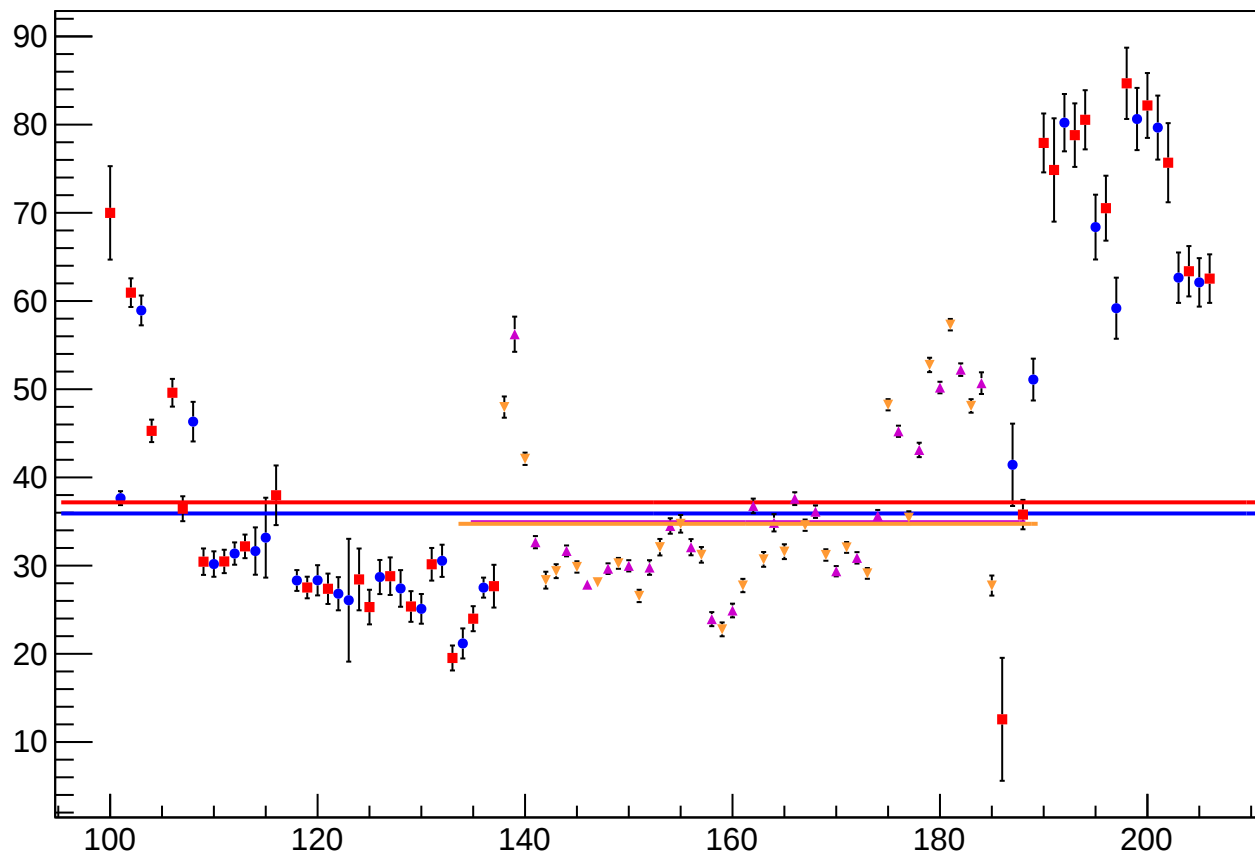
Right: -31.483 ± 0.541 $\chi^2/\text{NDF}: 1142.9/20$

In: -40.251 ± 0.185 $\chi^2/\text{NDF}: 7353.5/31$

Out: -40.152 ± 0.180 $\chi^2/\text{NDF}: 10143.9/36$

All: -40.200 ± 0.129 $\chi^2/\text{NDF}: 17497.6/68$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.913 $\pm$ 0.354 χ^2 /NDF: 1376.1/25

Left Out: 34.741 $\pm$ 0.147 χ^2 /NDF:3693.2/24

Right Out: 37.173 $\pm$ 0.351 χ^2 /NDF: 2003.2/30

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

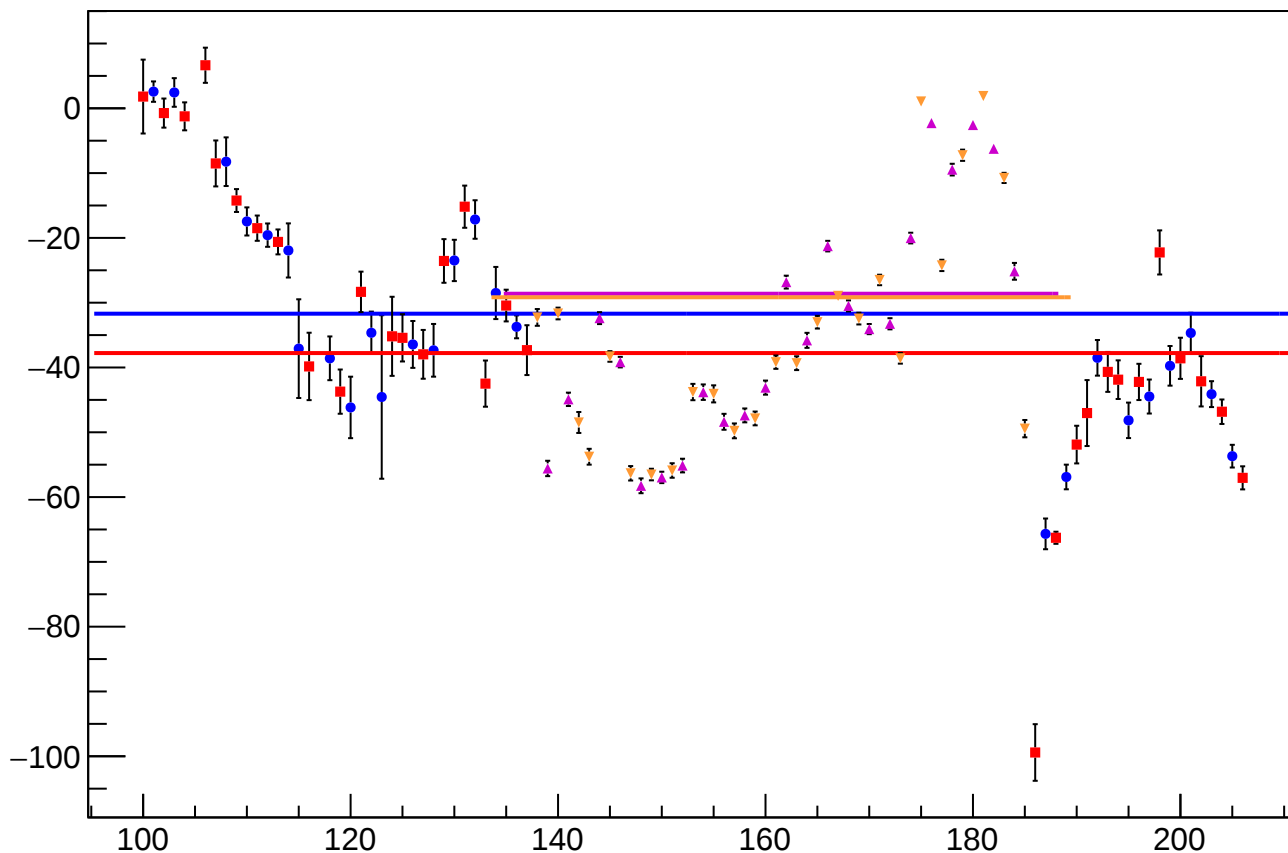
Right: 36.549 $\pm$ 0.249 χ^2 /NDF: 3385.7/56

In: 35.075 $\pm$ 0.139 χ^2 /NDF:4055.6/48

Out: 35.106 $\pm$ 0.136 χ^2 /NDF:5737.2/55

All: 35.091 $\pm$ 0.097 χ^2 /NDF: 9792.9/104

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -31.697 ± 0.507 $\chi^2/\text{NDF}: 1548.9/25$

Left Out: -29.163 ± 0.187 $\chi^2/\text{NDF}: 10126.0/24$

Right Out: -37.773 ± 0.449 $\chi^2/\text{NDF}: 2712.2/30$

Left In: -28.616 ± 0.190 $\chi^2/\text{NDF}: 9040.9/22$

Left: -28.894 ± 0.133 $\chi^2/\text{NDF}: 19171.1/47$

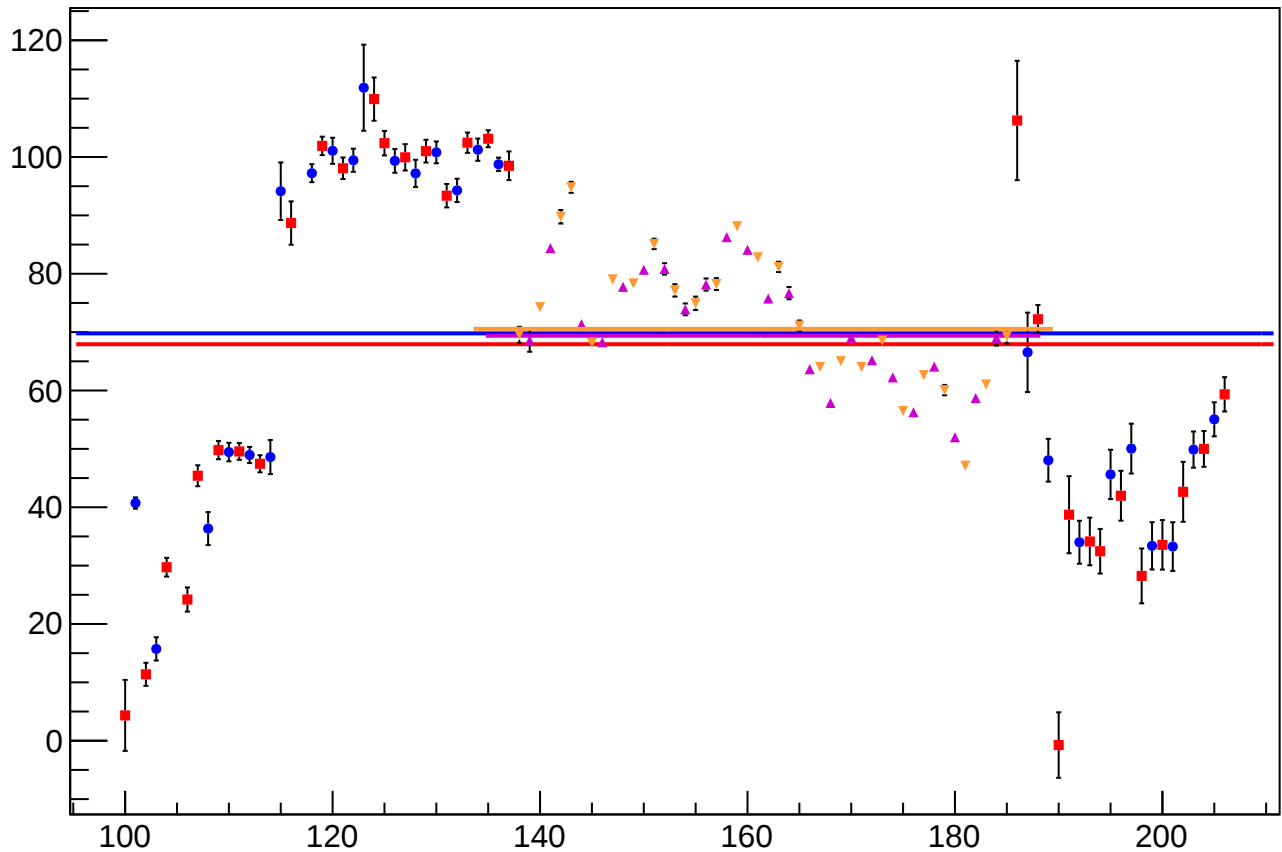
Right: -35.102 ± 0.336 $\chi^2/\text{NDF}: 4341.6/56$

In: -28.995 ± 0.178 $\chi^2/\text{NDF}: 10622.2/48$

Out: -30.435 ± 0.173 $\chi^2/\text{NDF}: 13151.4/55$

All: -29.736 ± 0.124 $\chi^2/\text{NDF}: 23807.4/104$

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 69.789 $\pm$ 0.406 χ^2 /NDF: 5121.2/25

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF: 4589.1/24

Right Out: 67.927 $\pm$ 0.405 χ^2 /NDF: 6120.3/30

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

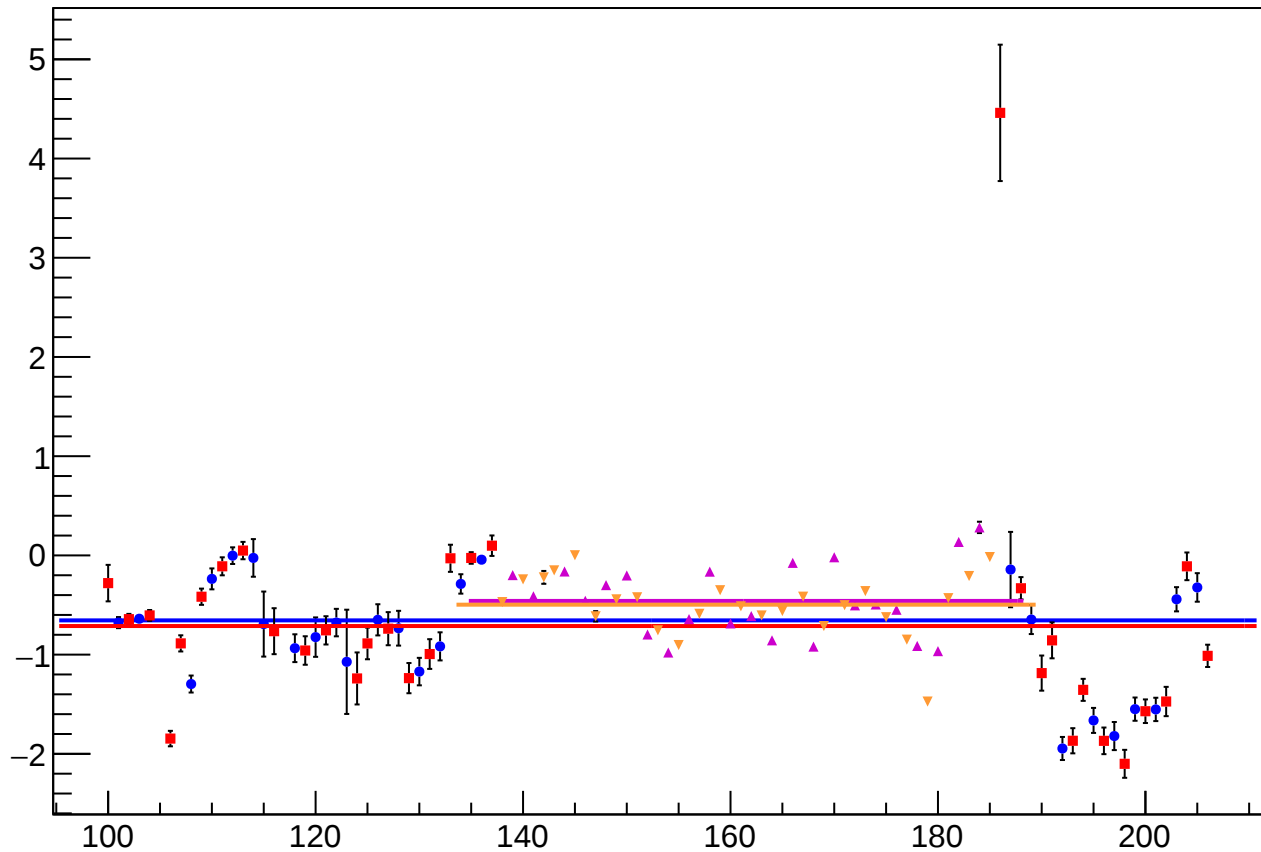
Right: 68.855 $\pm$ 0.287 χ^2 /NDF: 11252.0/56

In: 69.447 $\pm$ 0.157 χ^2 /NDF: 8443.8/48

Out: 70.183 $\pm$ 0.154 χ^2 /NDF: 10745.6/55

All: 69.823 $\pm$ 0.110 χ^2 /NDF: 19200.7/104

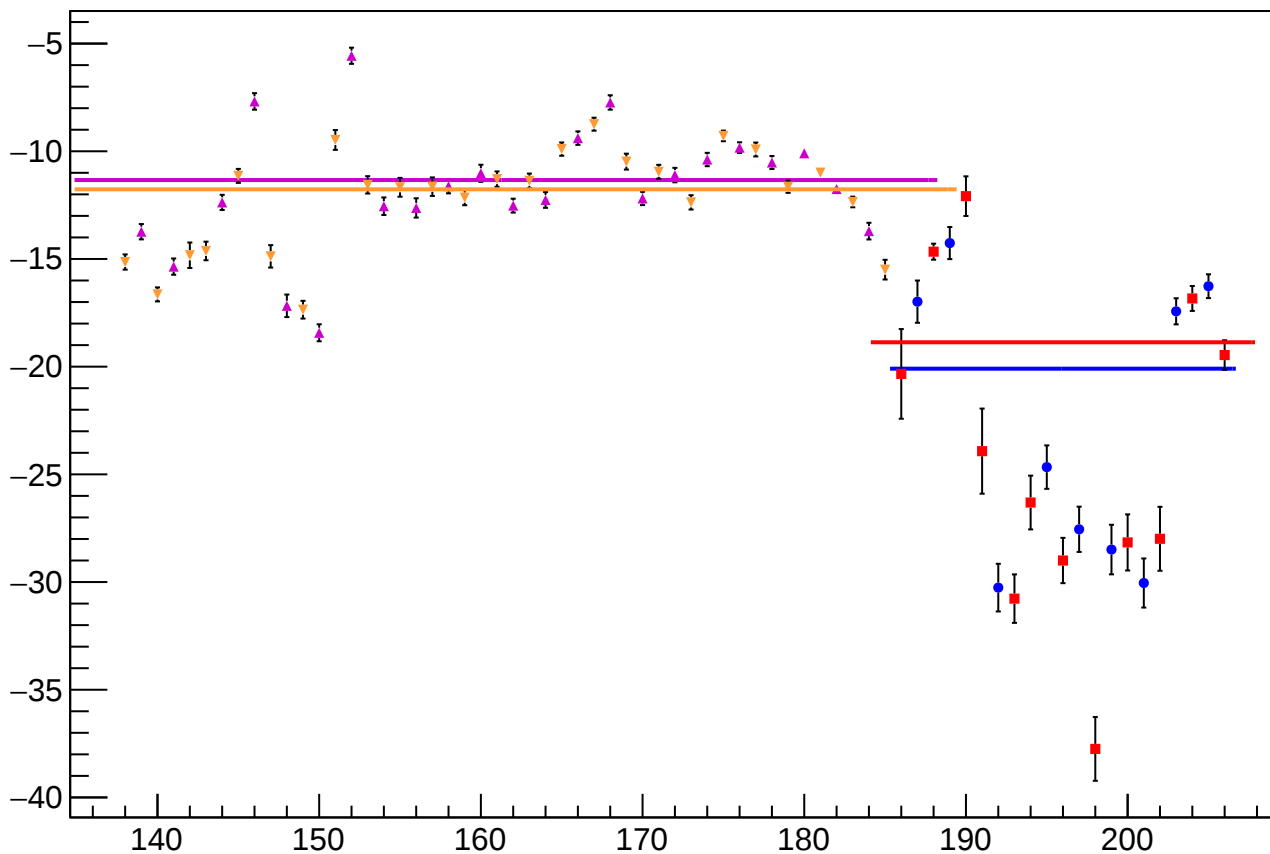
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.655 ± 0.020 χ^2/NDF : 732.7/25
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.712 ± 0.019 χ^2/NDF : 1077.7/30
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.685 ± 0.014 χ^2/NDF : 1814.8/56
 In: -0.484 ± 0.007 χ^2/NDF : 2774.8/48
 Out: -0.527 ± 0.007 χ^2/NDF : 2639.2/55
 All: -0.506 ± 0.005 χ^2/NDF : 5431.7/104

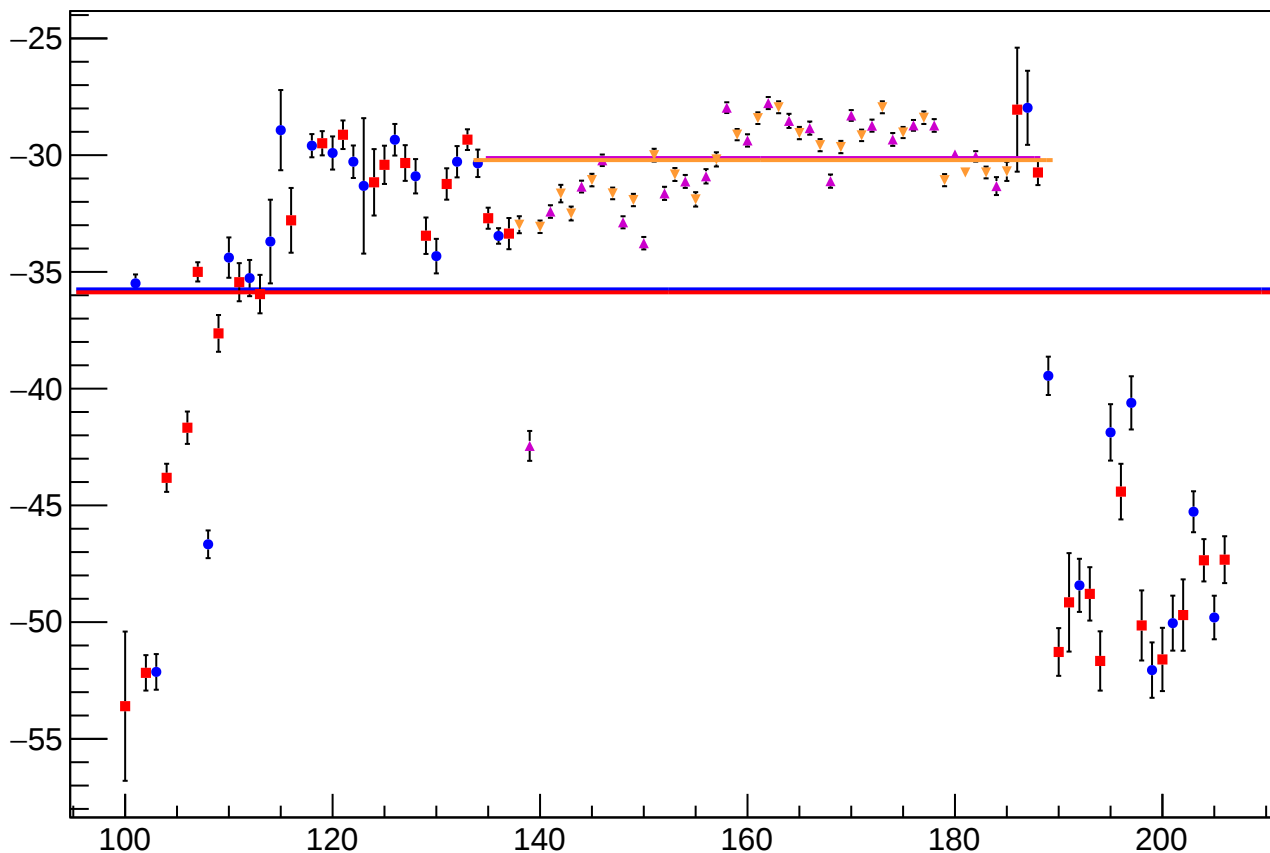
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -20.094 ± 0.277 $\chi^2/\text{NDF}: 423.3/8$
 Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$
 Right Out: -18.868 ± 0.237 $\chi^2/\text{NDF}: 693.7/11$
 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: -19.386 ± 0.180 $\chi^2/\text{NDF}: 1128.4/20$
 In: -11.835 ± 0.066 $\chi^2/\text{NDF}: 2637.9/31$
 Out: -12.288 ± 0.064 $\chi^2/\text{NDF}: 2547.5/36$
 All: -12.068 ± 0.046 $\chi^2/\text{NDF}: 5209.5/68$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -35.749 ± 0.140 χ^2/NDF : 2332.6/25

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -35.875 ± 0.136 χ^2/NDF : 2767.5/30

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

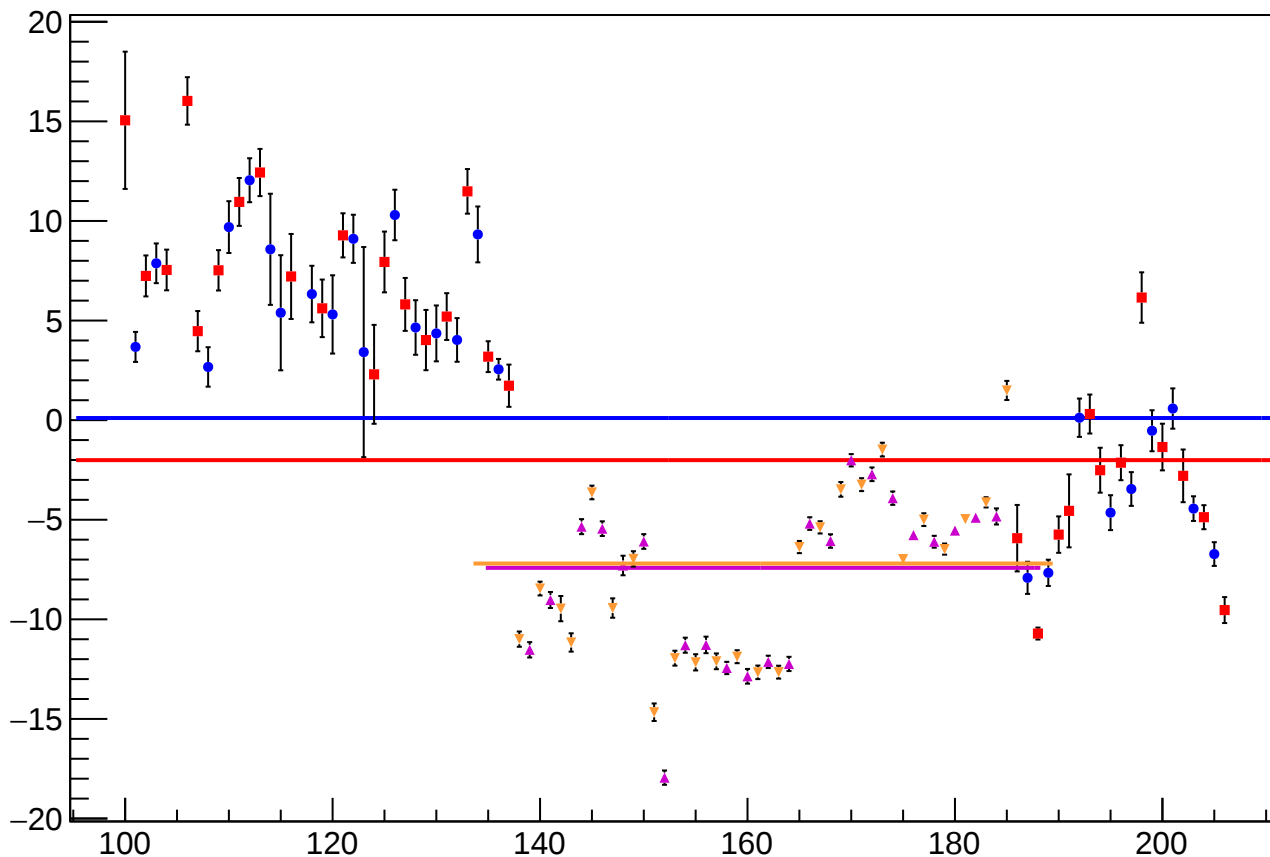
Right: -35.814 ± 0.097 χ^2/NDF : 5100.5/56

In: -30.892 ± 0.052 χ^2/NDF : 4960.5/48

Out: -30.983 ± 0.050 χ^2/NDF : 5006.4/55

All: -30.939 ± 0.036 χ^2/NDF : 9968.5/104

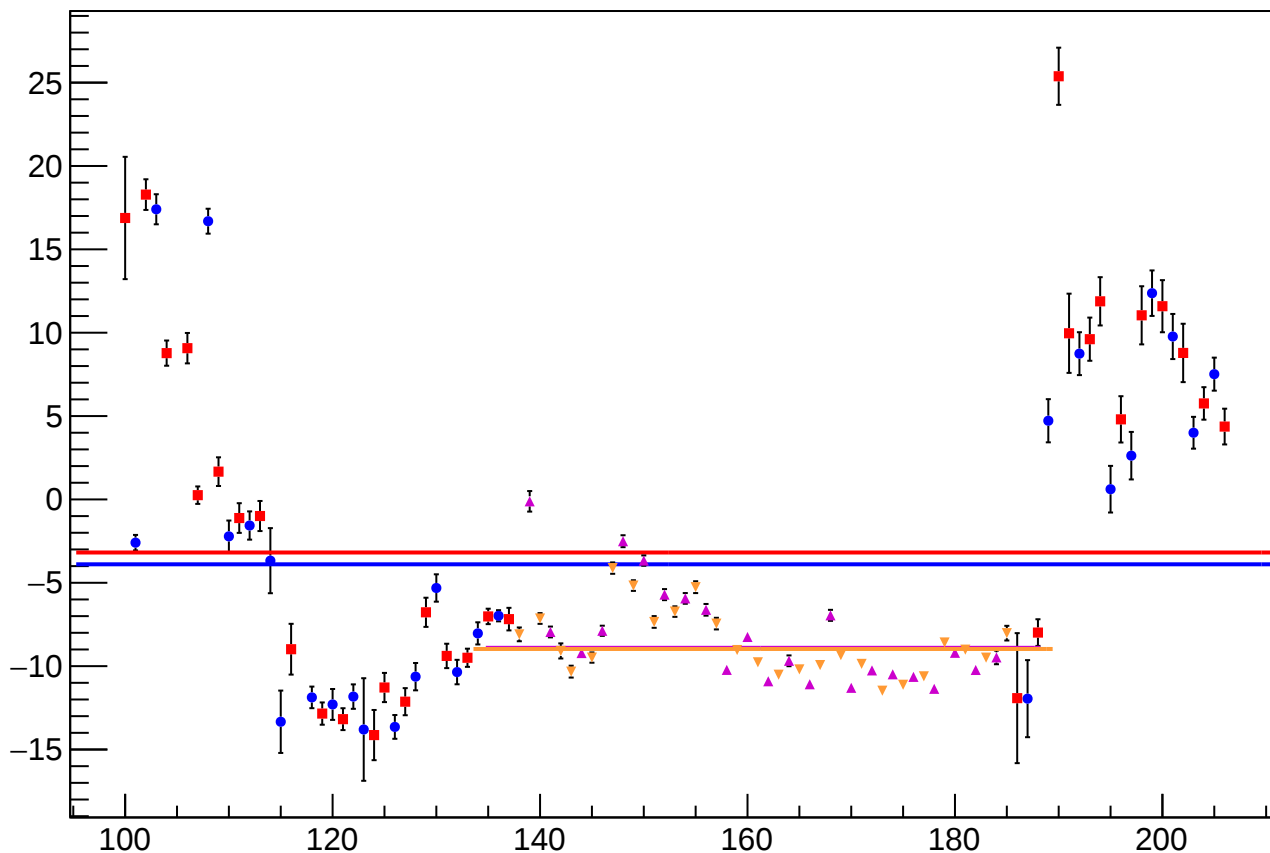
reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.107 ± 0.187 $\chi^2/\text{NDF}: 989.9/25$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -2.008 ± 0.166 $\chi^2/\text{NDF}: 2371.6/30$
 Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$
 Right: -1.076 ± 0.124 $\chi^2/\text{NDF}: 3433.0/56$
 In: -6.539 ± 0.064 $\chi^2/\text{NDF}: 5543.3/48$
 Out: -6.473 ± 0.062 $\chi^2/\text{NDF}: 6251.1/55$
 All: -6.505 ± 0.044 $\chi^2/\text{NDF}: 11794.9/104$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.892 ± 0.159 $\chi^2/\text{NDF}: 2809.3/25$

Left Out: -8.970 ± 0.060 $\chi^2/\text{NDF}: 878.8/24$

Right Out: -3.183 ± 0.158 $\chi^2/\text{NDF}: 3058.2/30$

Left In: -8.900 ± 0.062 $\chi^2/\text{NDF}: 1533.9/22$

Left: -8.936 ± 0.043 $\chi^2/\text{NDF}: 2413.4/47$

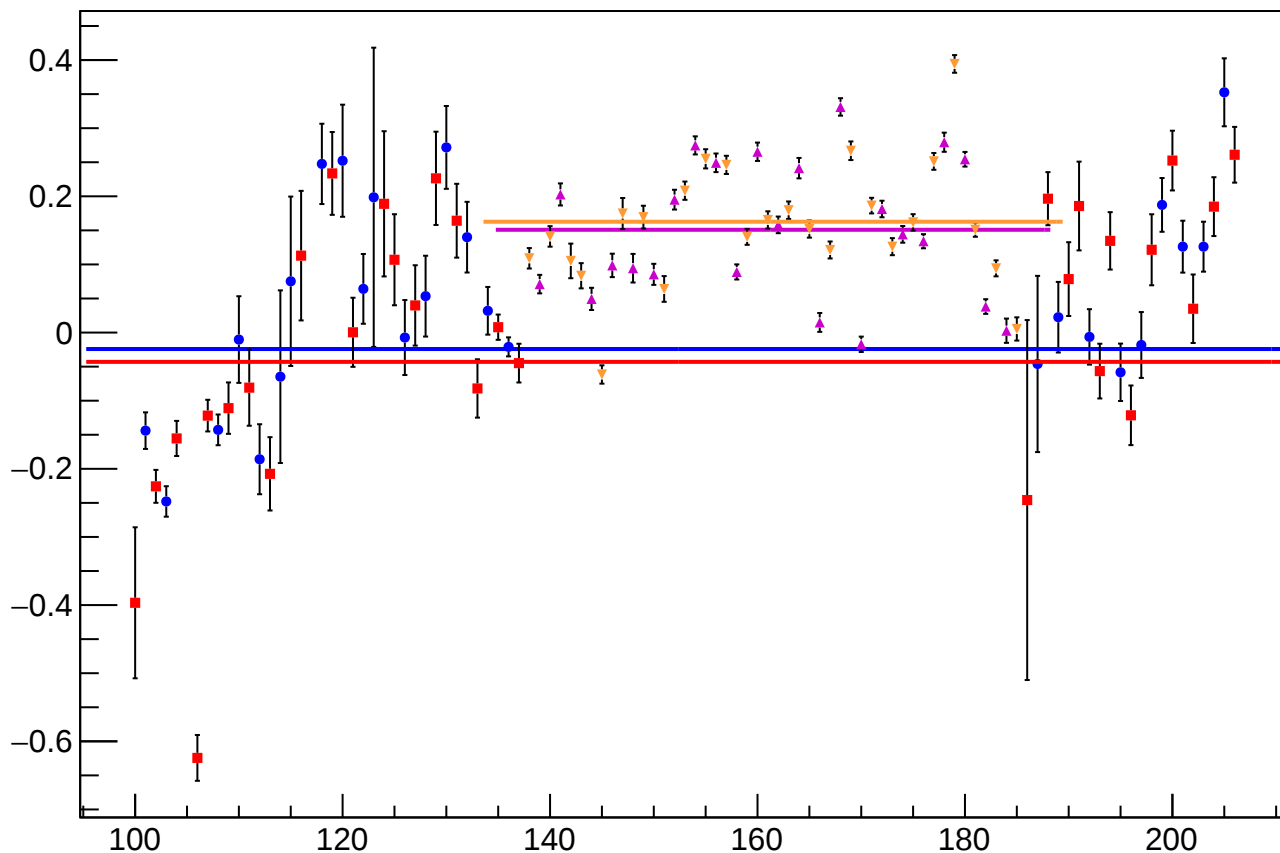
Right: -3.536 ± 0.112 $\chi^2/\text{NDF}: 5877.5/56$

In: -8.243 ± 0.057 $\chi^2/\text{NDF}: 5209.9/48$

Out: -8.237 ± 0.056 $\chi^2/\text{NDF}: 5108.9/55$

All: -8.240 ± 0.040 $\chi^2/\text{NDF}: 10318.8/104$

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.024 ± 0.007 χ^2/NDF : 353.0/25

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.043 ± 0.007 χ^2/NDF : 702.2/30

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

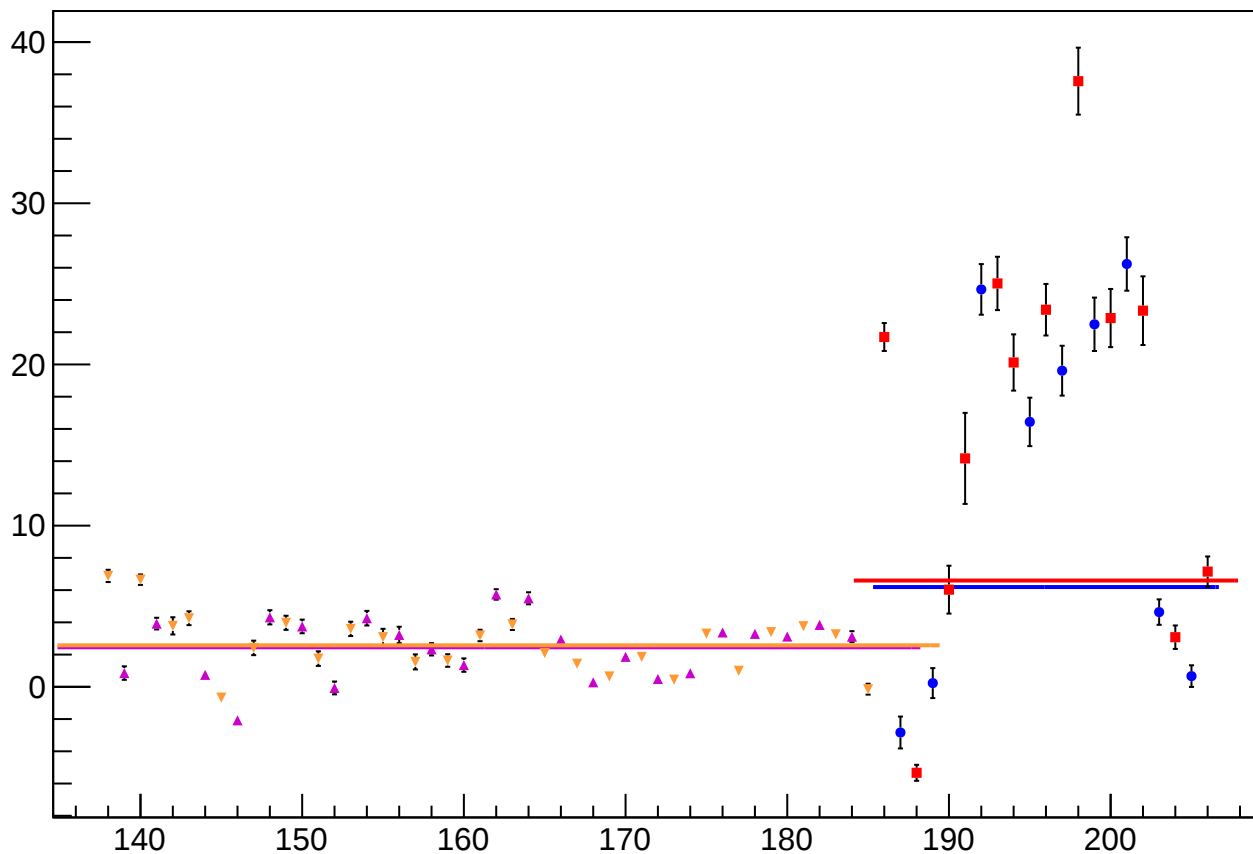
Right: -0.034 ± 0.005 χ^2/NDF : 1058.6/56

In: 0.129 ± 0.003 χ^2/NDF : 2139.7/48

Out: 0.137 ± 0.003 χ^2/NDF : 2437.5/55

All: 0.133 ± 0.002 χ^2/NDF : 4581.7/104

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.190 $\pm$ 0.354 χ^2 /NDF: 699.0/8

Left Out: 2.577 $\pm$ 0.058 χ^2 /NDF:867.5/24

Right Out: 6.594 $\pm$ 0.304 χ^2 /NDF: 1572.9/11

Left In: 2.452 $\pm$ 0.059 χ^2 /NDF:871.3/22

Left: 2.516 $\pm$ 0.042 χ^2 /NDF: 1741.0/47

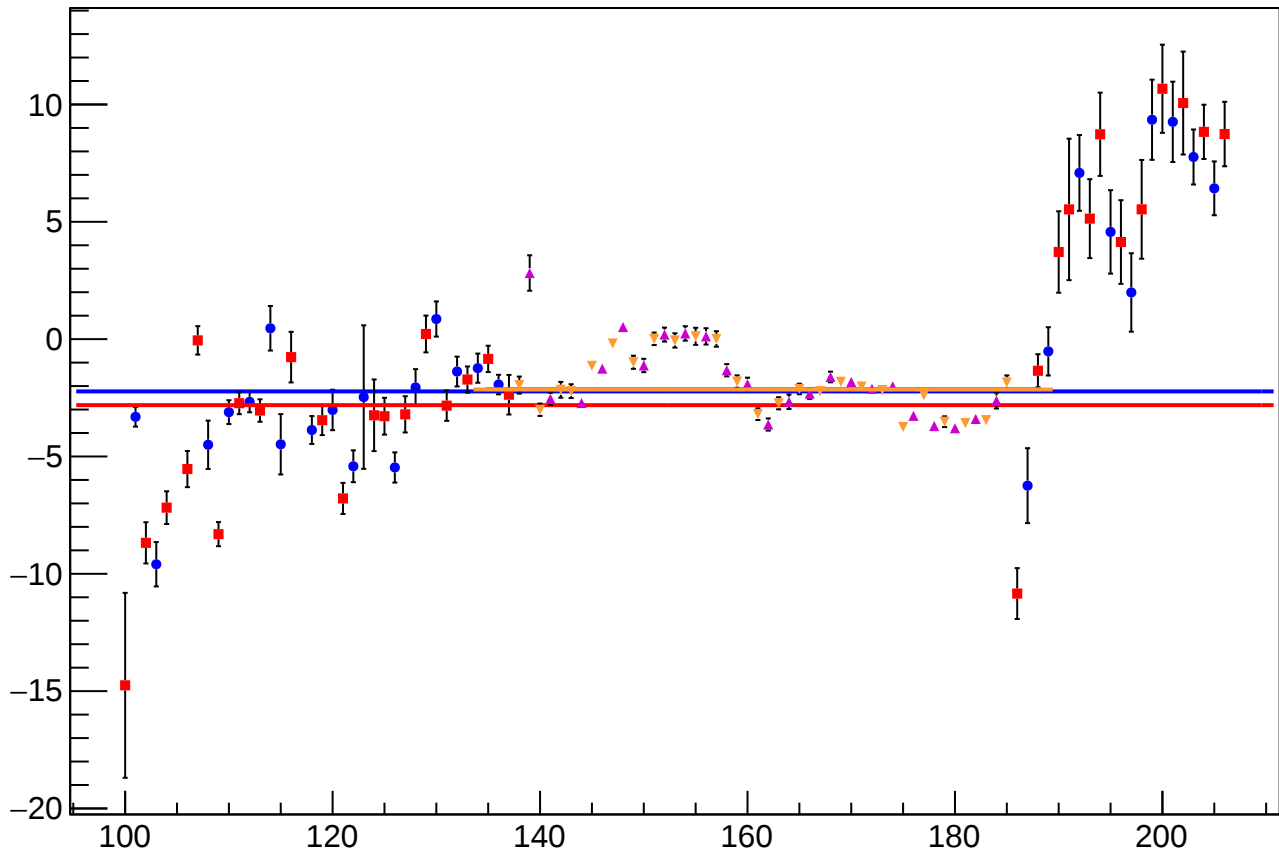
Right: 6.423 $\pm$ 0.230 χ^2 /NDF: 2272.6/20

In: 2.555 $\pm$ 0.059 χ^2 /NDF:1678.9/31

Out: 2.719 $\pm$ 0.057 χ^2 /NDF:2609.1/36

All: 2.639 $\pm$ 0.041 χ^2 /NDF: 4292.0/68

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.227 ± 0.147 $\chi^2/\text{NDF}: 448.9/25$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -2.813 ± 0.144 $\chi^2/\text{NDF}: 748.7/30$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

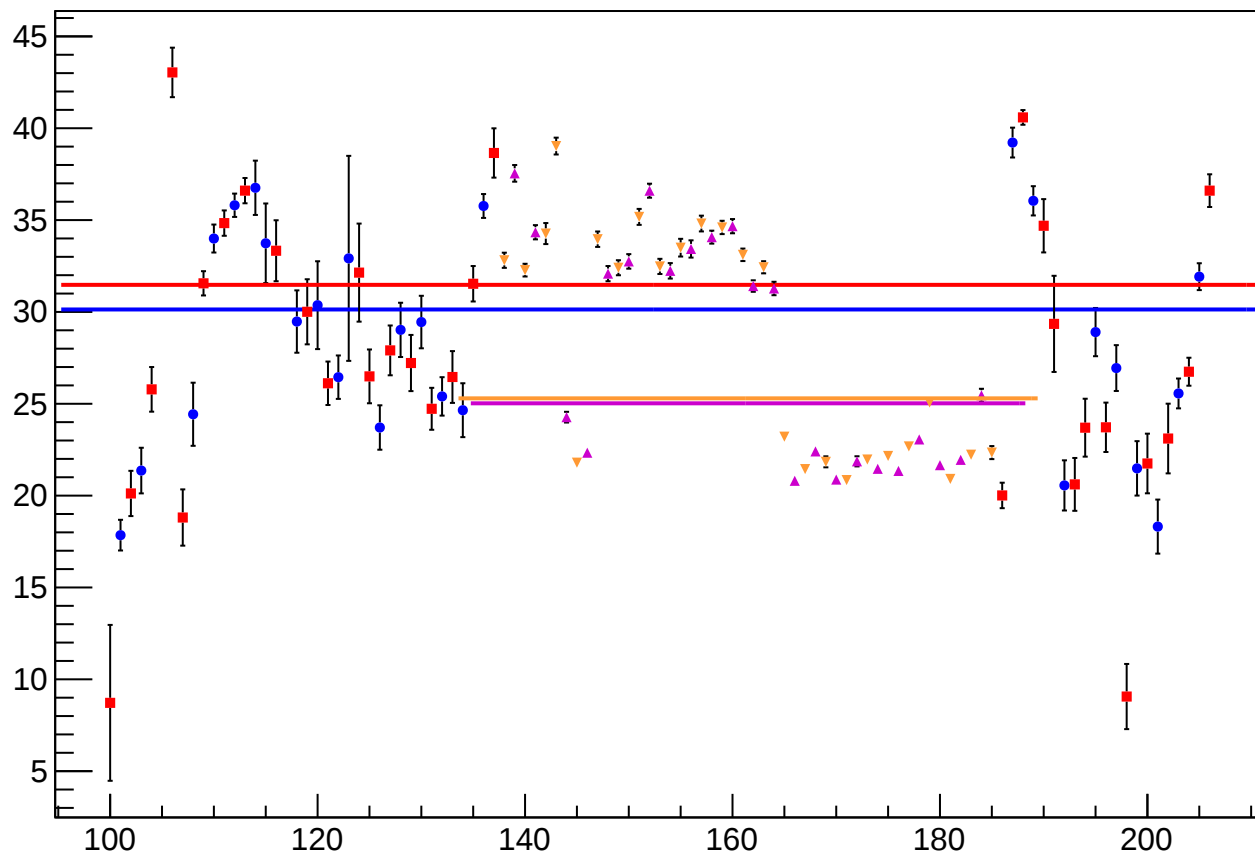
Right: -2.526 ± 0.103 $\chi^2/\text{NDF}: 1205.7/56$

In: -2.145 ± 0.046 $\chi^2/\text{NDF}: 1140.5/48$

Out: -2.211 ± 0.045 $\chi^2/\text{NDF}: 1341.3/55$

All: -2.179 ± 0.032 $\chi^2/\text{NDF}: 2482.9/104$

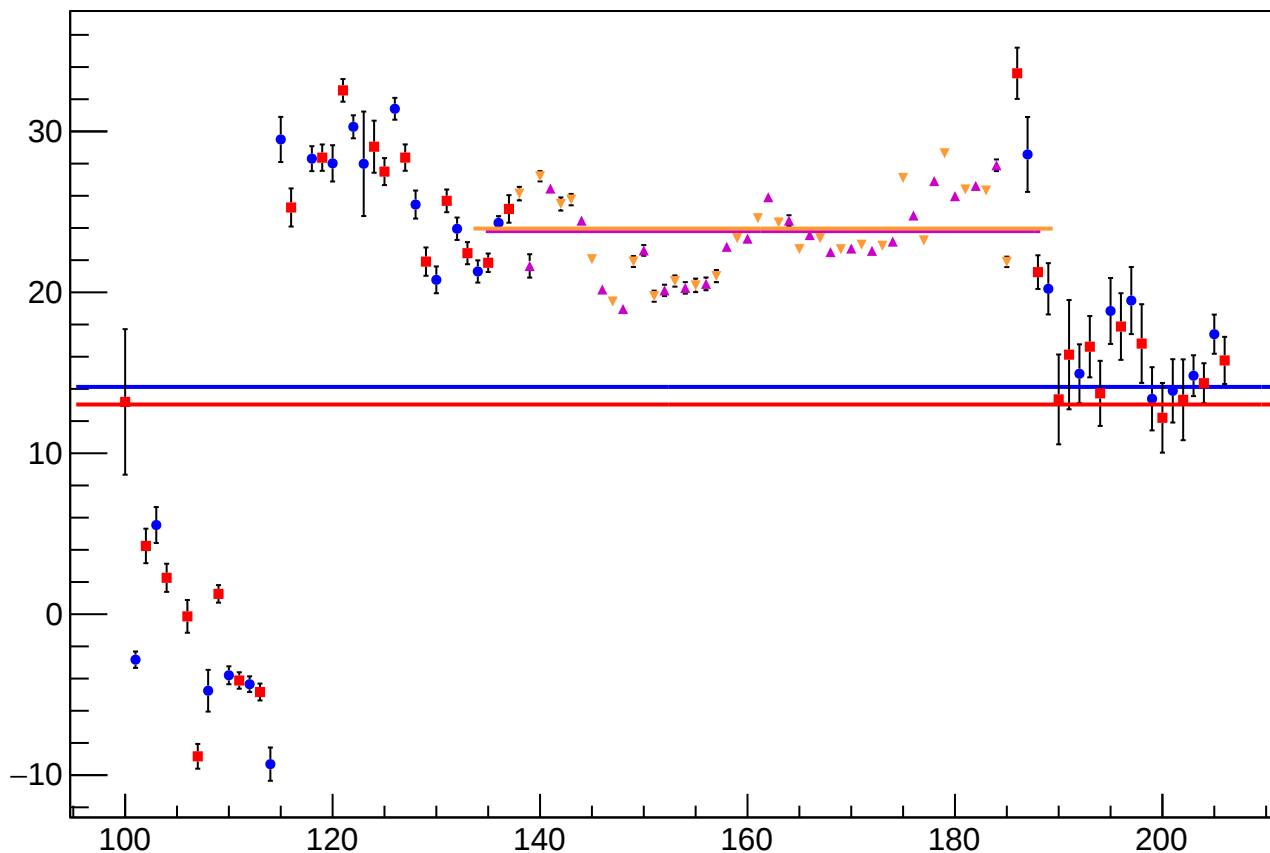
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.134 $\pm$ 0.208 χ^2 /NDF: 927.5/25
 Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF:8272.3/24
 Right Out: 31.474 $\pm$ 0.185 χ^2 /NDF: 1681.3/30
 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: 30.881 $\pm$ 0.138 χ^2 /NDF: 2631.9/56
 In: 25.413 $\pm$ 0.057 χ^2 /NDF:9095.2/48
 Out: 25.861 $\pm$ 0.056 χ^2 /NDF:10962.5/55
 All: 25.642 $\pm$ 0.040 χ^2 /NDF: 20089.0/104

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.123 $\pm$ 0.165 χ^2 /NDF: 7350.8/25

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.031 $\pm$ 0.164 χ^2 /NDF: 7212.2/30

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

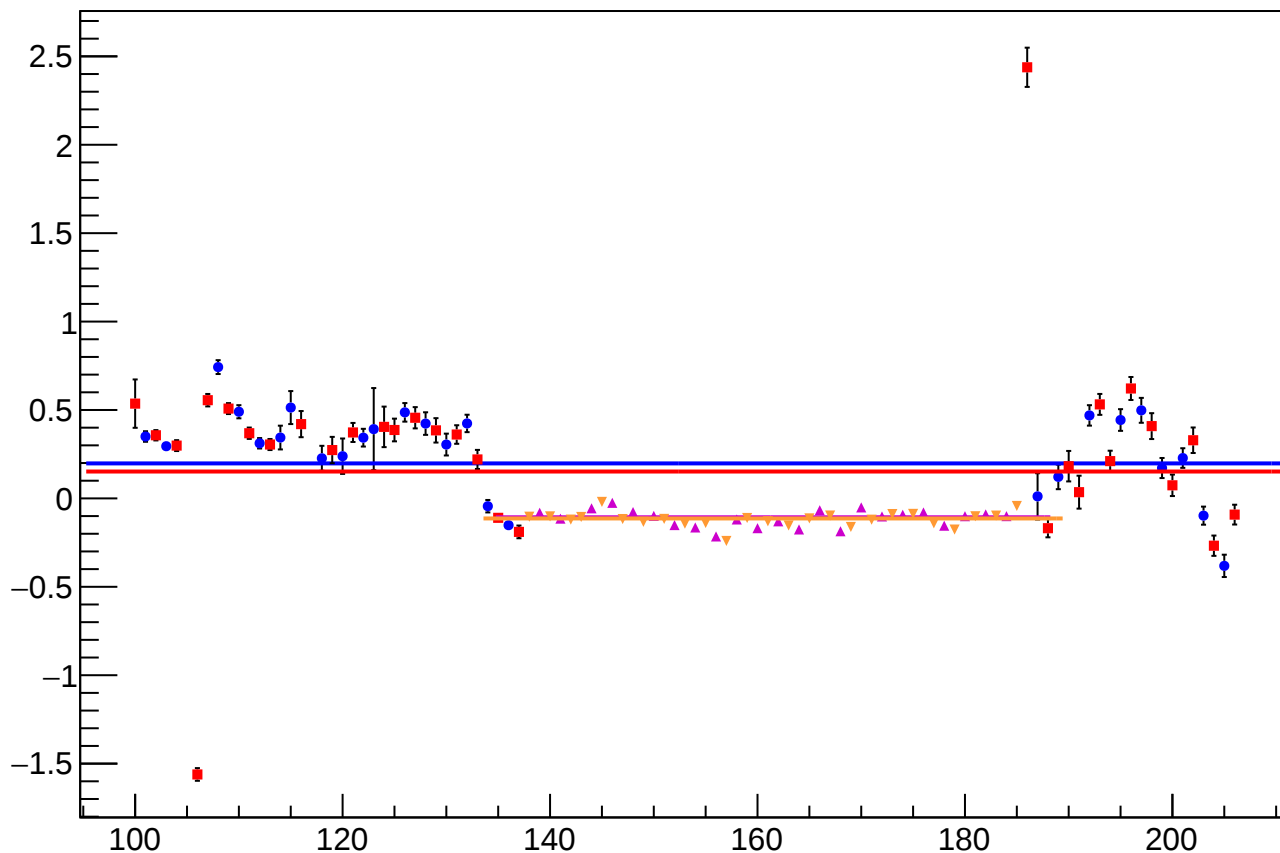
Right: 13.574 $\pm$ 0.117 χ^2 /NDF: 14584.9/56

In: 22.871 $\pm$ 0.051 χ^2 /NDF:12209.1/48

Out: 22.928 $\pm$ 0.051 χ^2 /NDF:13133.3/55

All: 22.900 $\pm$ 0.036 χ^2 /NDF: 25343.0/104

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.198 ± 0.009 $\chi^2/\text{NDF}: 1024.6/25$

Left Out: -0.113 ± 0.002 $\chi^2/\text{NDF}: 291.0/24$

Right Out: 0.152 ± 0.008 $\chi^2/\text{NDF}: 3667.1/30$

Left In: -0.107 ± 0.002 $\chi^2/\text{NDF}: 321.8/22$

Left: -0.110 ± 0.002 $\chi^2/\text{NDF}: 616.6/47$

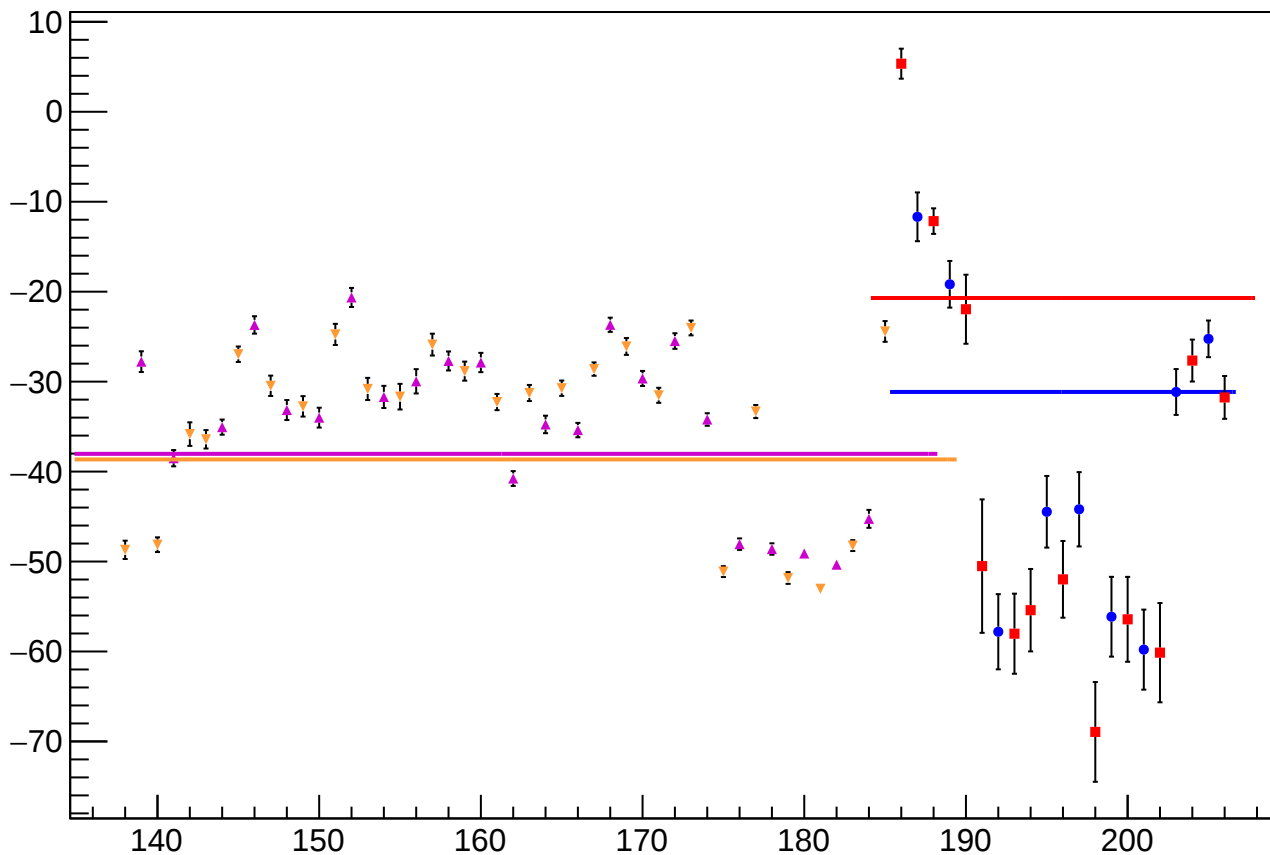
Right: 0.174 ± 0.006 $\chi^2/\text{NDF}: 4706.6/56$

In: -0.083 ± 0.002 $\chi^2/\text{NDF}: 2516.4/48$

Out: -0.093 ± 0.002 $\chi^2/\text{NDF}: 4903.3/55$

All: -0.088 ± 0.002 $\chi^2/\text{NDF}: 7427.4/104$

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected

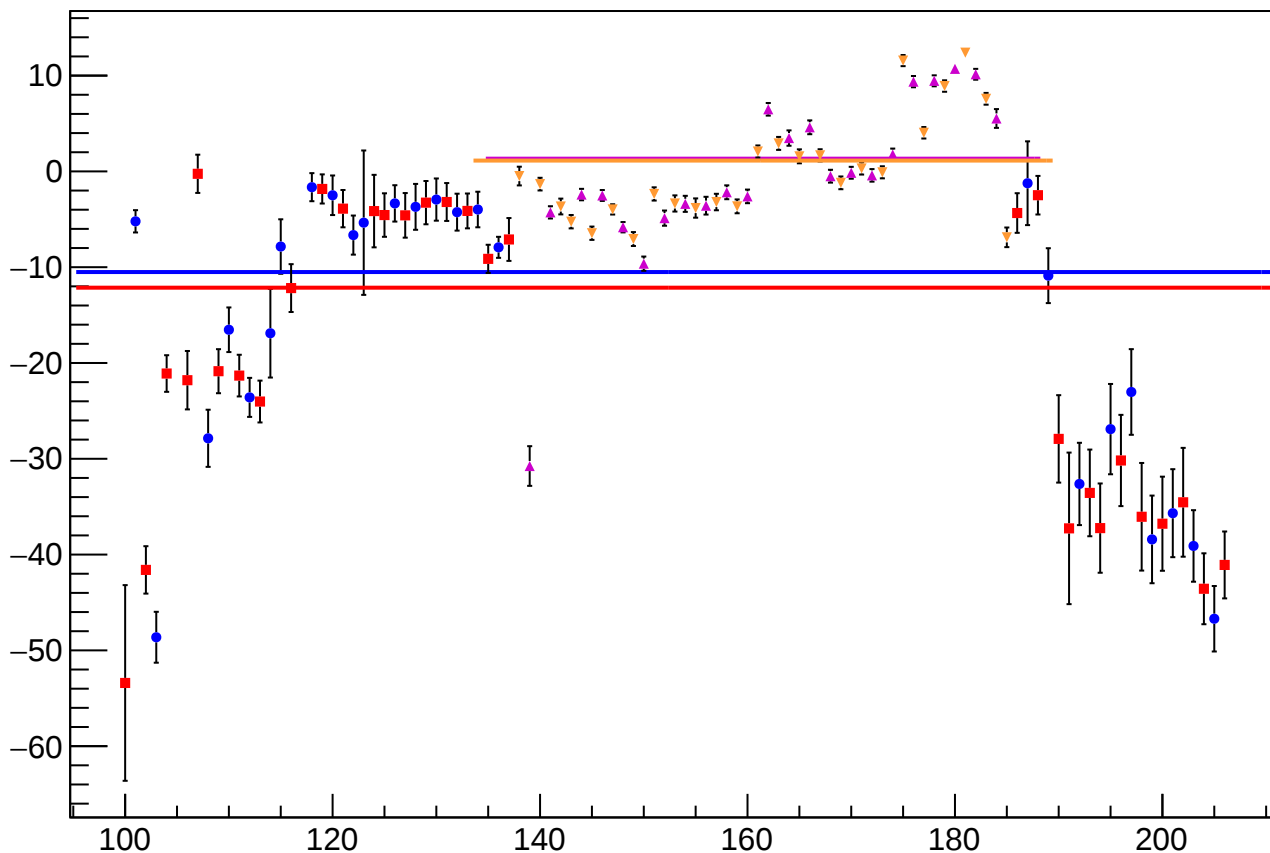


Right In: -31.146 ± 1.021 χ^2/NDF : 216.3/8
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -20.703 ± 0.800 χ^2/NDF : 692.0/11
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -24.675 ± 0.629 χ^2/NDF : 973.2/20
 In: -37.835 ± 0.171 χ^2/NDF : 3352.4/31
 Out: -37.882 ± 0.165 χ^2/NDF : 5251.4/36

All: -37.859 ± 0.119 χ^2/NDF : 8603.8/68

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -10.507 ± 0.440 χ^2/NDF : 718.4/25

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -12.139 ± 0.444 χ^2/NDF : 766.6/30

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

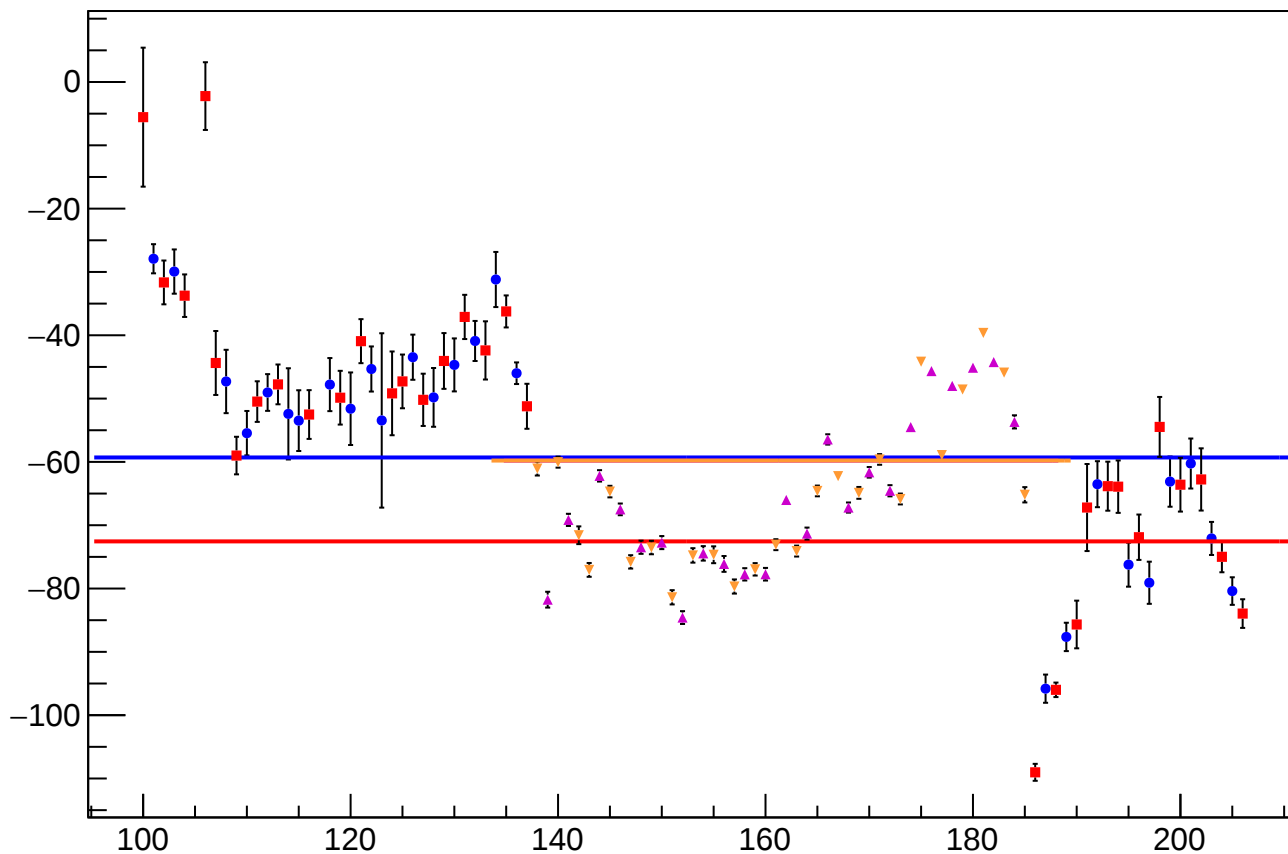
Right: -11.316 ± 0.312 χ^2/NDF : 1491.9/56

In: 0.243 ± 0.133 χ^2/NDF : 3424.1/48

Out: -0.009 ± 0.130 χ^2/NDF : 3383.4/55

All: 0.114 ± 0.093 χ^2/NDF : 6809.4/104

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.299 ± 0.625 $\chi^2/\text{NDF}: 1083.7/25$

Left Out: -59.789 ± 0.170 $\chi^2/\text{NDF}: 5837.7/24$

Right Out: -72.554 ± 0.539 $\chi^2/\text{NDF}: 2524.2/30$

Left In: -59.802 ± 0.173 $\chi^2/\text{NDF}: 5217.5/22$

Left: -59.795 ± 0.121 $\chi^2/\text{NDF}: 11055.3/47$

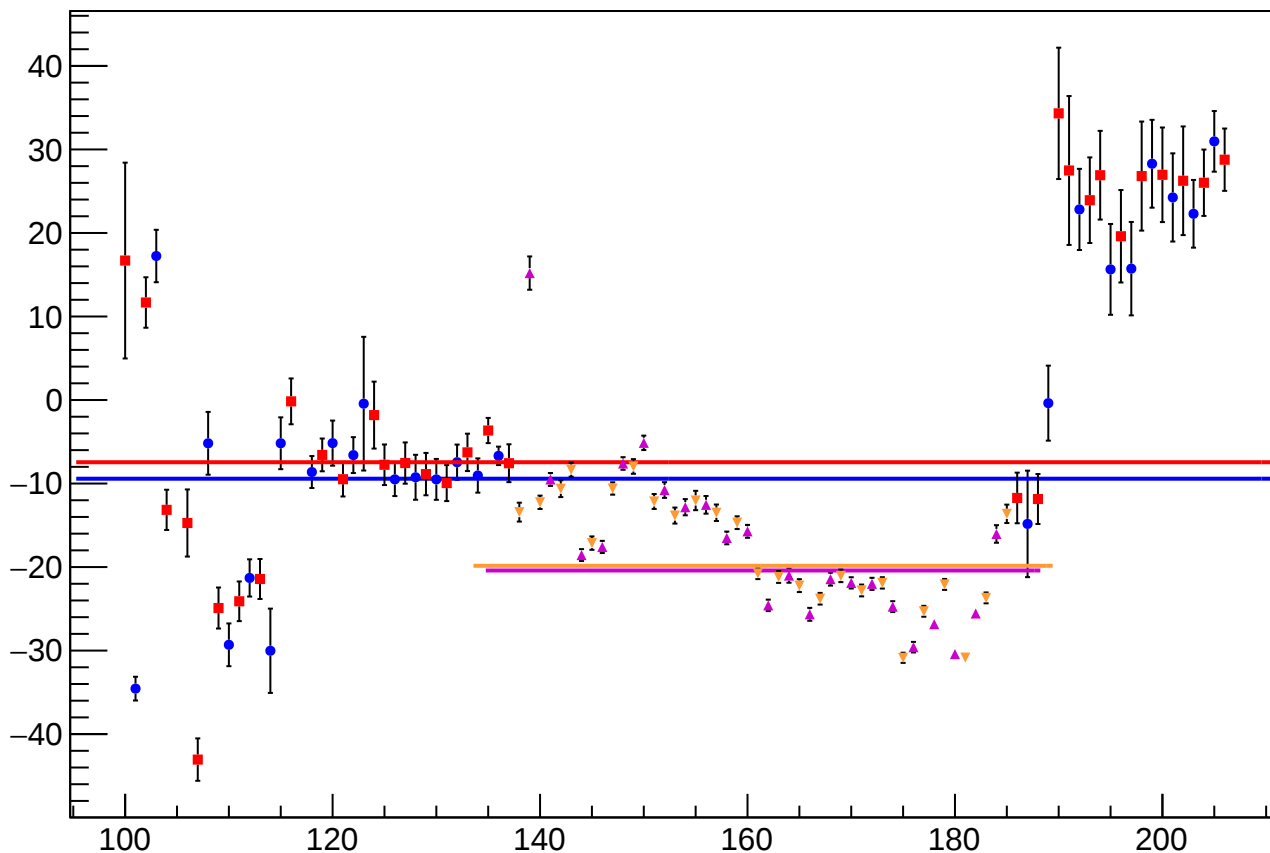
Right: -66.908 ± 0.408 $\chi^2/\text{NDF}: 3865.9/56$

In: -59.766 ± 0.167 $\chi^2/\text{NDF}: 6301.9/48$

Out: -60.946 ± 0.162 $\chi^2/\text{NDF}: 8872.6/55$

All: -60.373 ± 0.116 $\chi^2/\text{NDF}: 15200.2/104$

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected

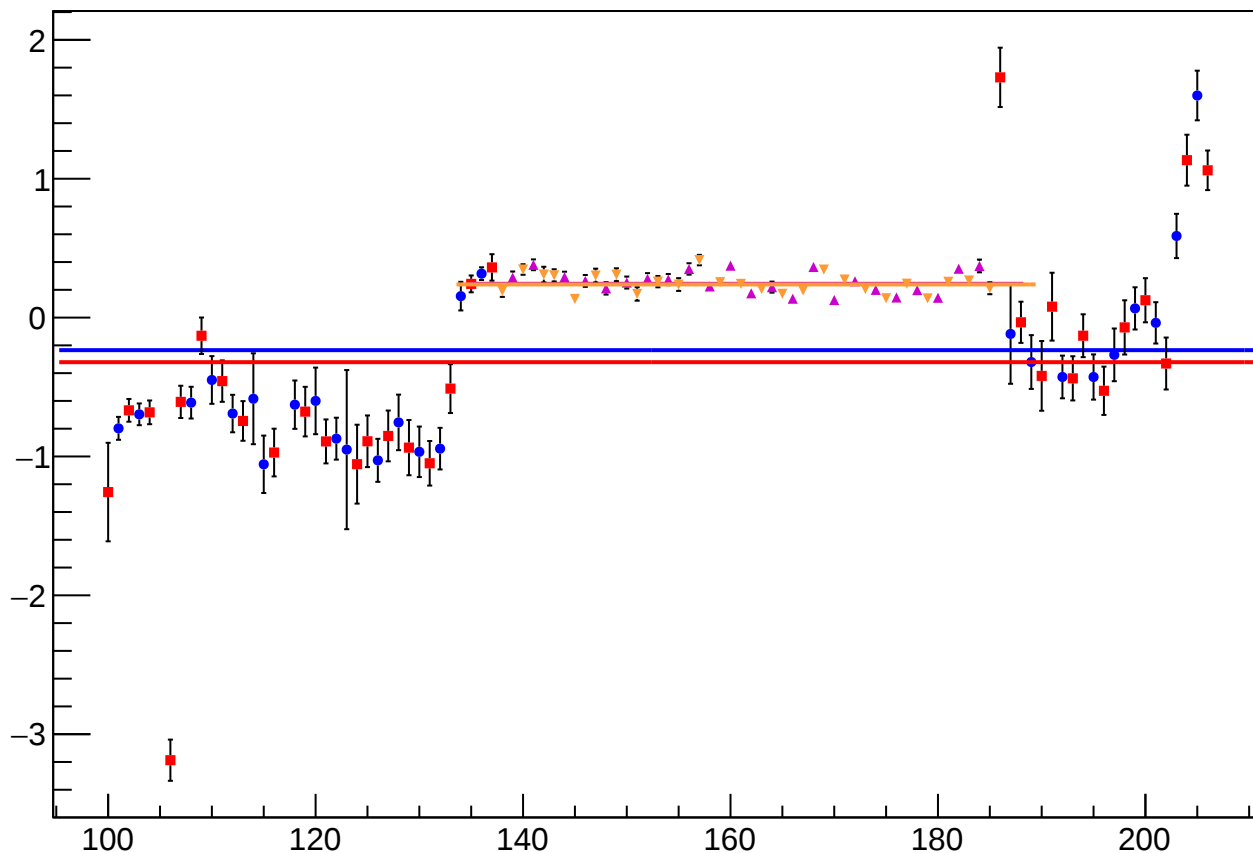


Right In: -9.422 ± 0.498 $\chi^2/\text{NDF}: 873.5/25$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -7.448 ± 0.512 $\chi^2/\text{NDF}: 809.7/30$
 Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$
 Right: -8.462 ± 0.357 $\chi^2/\text{NDF}: 1690.8/56$
 In: -19.420 ± 0.149 $\chi^2/\text{NDF}: 3618.9/48$
 Out: -18.833 ± 0.146 $\chi^2/\text{NDF}: 3280.2/55$

All: -19.120 ± 0.105 $\chi^2/\text{NDF}: 6907.0/104$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.235 ± 0.025 χ^2/NDF : 519.2/25

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.321 ± 0.025 χ^2/NDF : 927.4/30

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

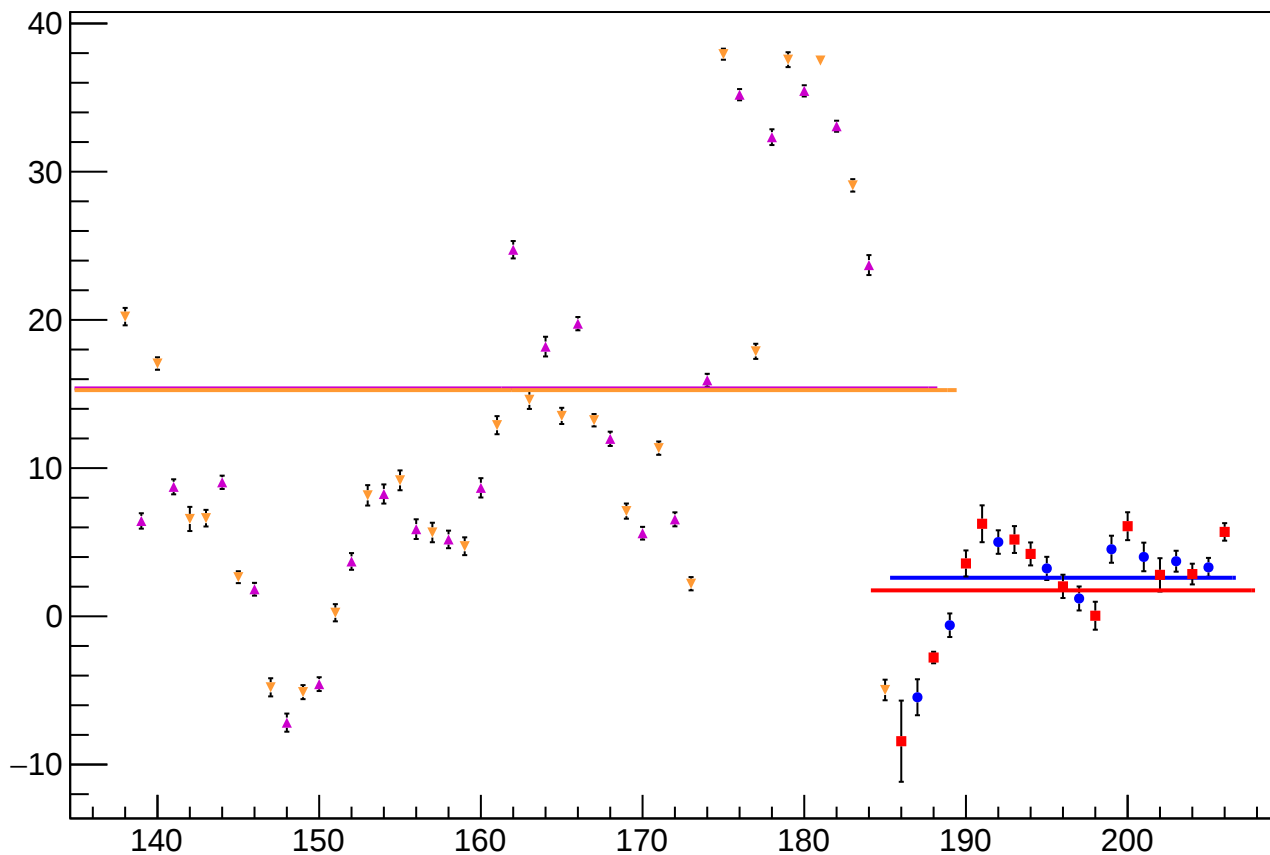
Right: -0.278 ± 0.018 χ^2/NDF : 1452.7/56

In: 0.207 ± 0.007 χ^2/NDF : 997.9/48

Out: 0.198 ± 0.007 χ^2/NDF : 1487.6/55

All: 0.202 ± 0.005 χ^2/NDF : 2486.4/104

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.602 ± 0.270 χ^2/NDF : 83.5/8

Left Out: 15.263 ± 0.100 χ^2/NDF : 19175.2/24

Right Out: 1.750 ± 0.217 χ^2/NDF : 263.7/11

Left In: 15.377 ± 0.103 χ^2/NDF : 16268.9/22

Left: 15.318 ± 0.072 χ^2/NDF : 35444.7/47

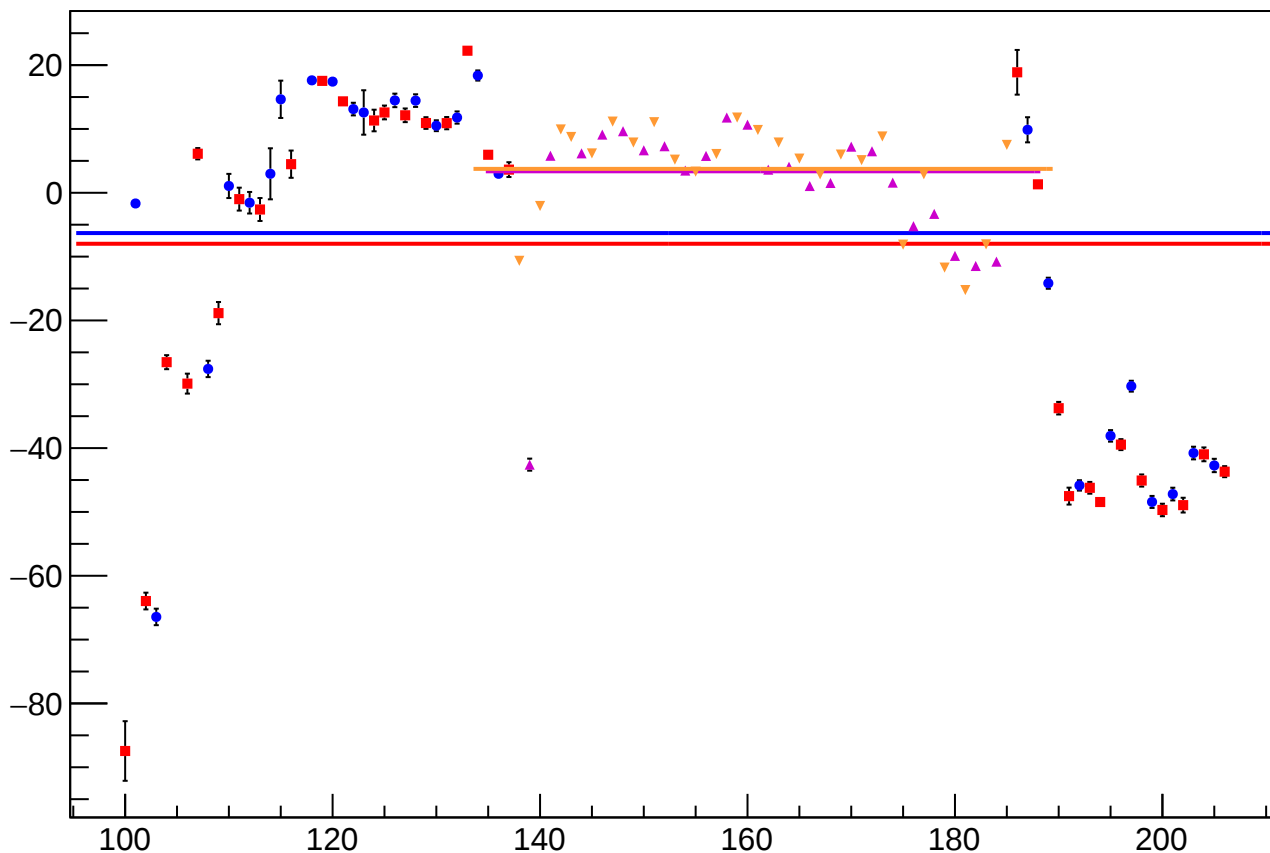
Right: 2.086 ± 0.169 χ^2/NDF : 353.3/20

In: 13.756 ± 0.096 χ^2/NDF : 18313.9/31

Out: 12.885 ± 0.091 χ^2/NDF : 22620.3/36

All: 13.298 ± 0.066 χ^2/NDF : 40977.4/68

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.311 ± 0.180 $\chi^2/\text{NDF}: 20080.6/25$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -7.986 ± 0.167 $\chi^2/\text{NDF}: 27506.4/30$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

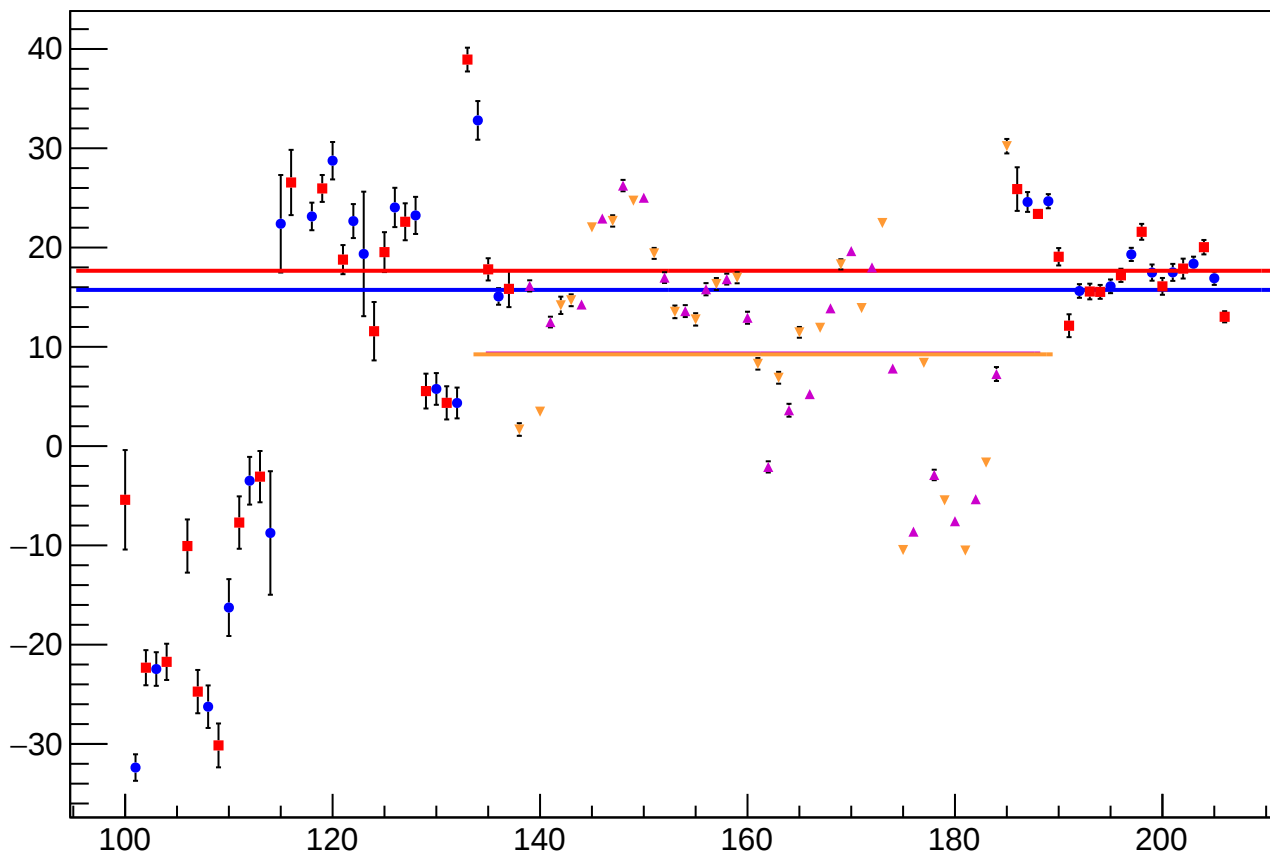
Right: -7.214 ± 0.122 $\chi^2/\text{NDF}: 47633.4/56$

In: 1.733 ± 0.074 $\chi^2/\text{NDF}: 31000.6/48$

Out: 1.609 ± 0.071 $\chi^2/\text{NDF}: 40795.2/55$

All: 1.669 ± 0.051 $\chi^2/\text{NDF}: 71797.3/104$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.734 ± 0.212 χ^2/NDF : 2985.1/25

Left Out: 9.242 ± 0.101 χ^2/NDF : 13633.2/24

Right Out: 17.661 ± 0.174 χ^2/NDF : 3084.7/30

Left In: 9.328 ± 0.103 χ^2/NDF : 11968.5/22

Left: 9.284 ± 0.072 χ^2/NDF : 25602.0/47

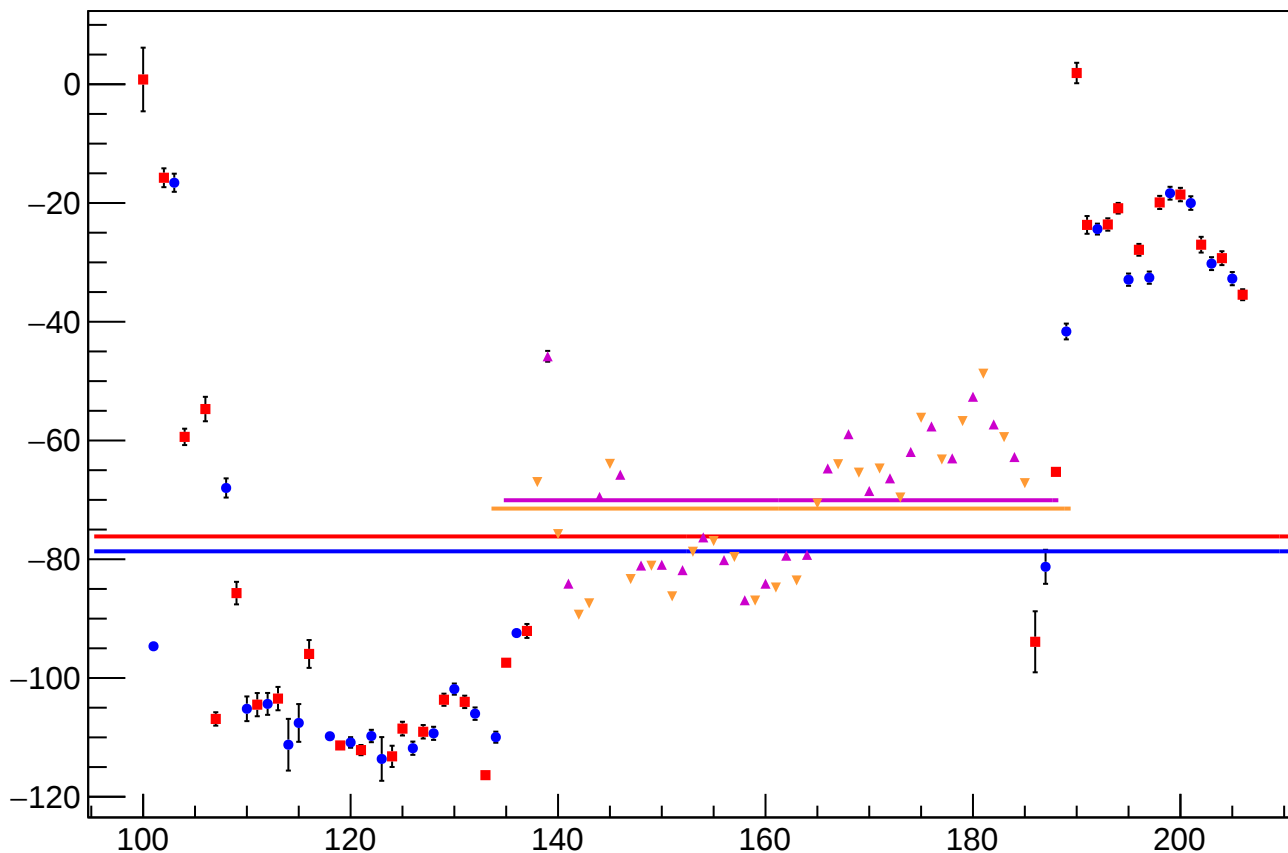
Right: 16.886 ± 0.135 χ^2/NDF : 6119.1/56

In: 10.541 ± 0.092 χ^2/NDF : 15692.0/48

Out: 11.359 ± 0.087 χ^2/NDF : 18468.0/55

All: 10.973 ± 0.063 χ^2/NDF : 34201.4/104

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -78.666 ± 0.209 χ^2/NDF : 29629.0/25

Left Out: -71.465 ± 0.089 χ^2/NDF : 16409.7/24

Right Out: -76.157 ± 0.196 χ^2/NDF : 39697.0/30

Left In: -70.061 ± 0.092 χ^2/NDF : 13058.5/22

Left: -70.782 ± 0.064 χ^2/NDF : 29588.5/47

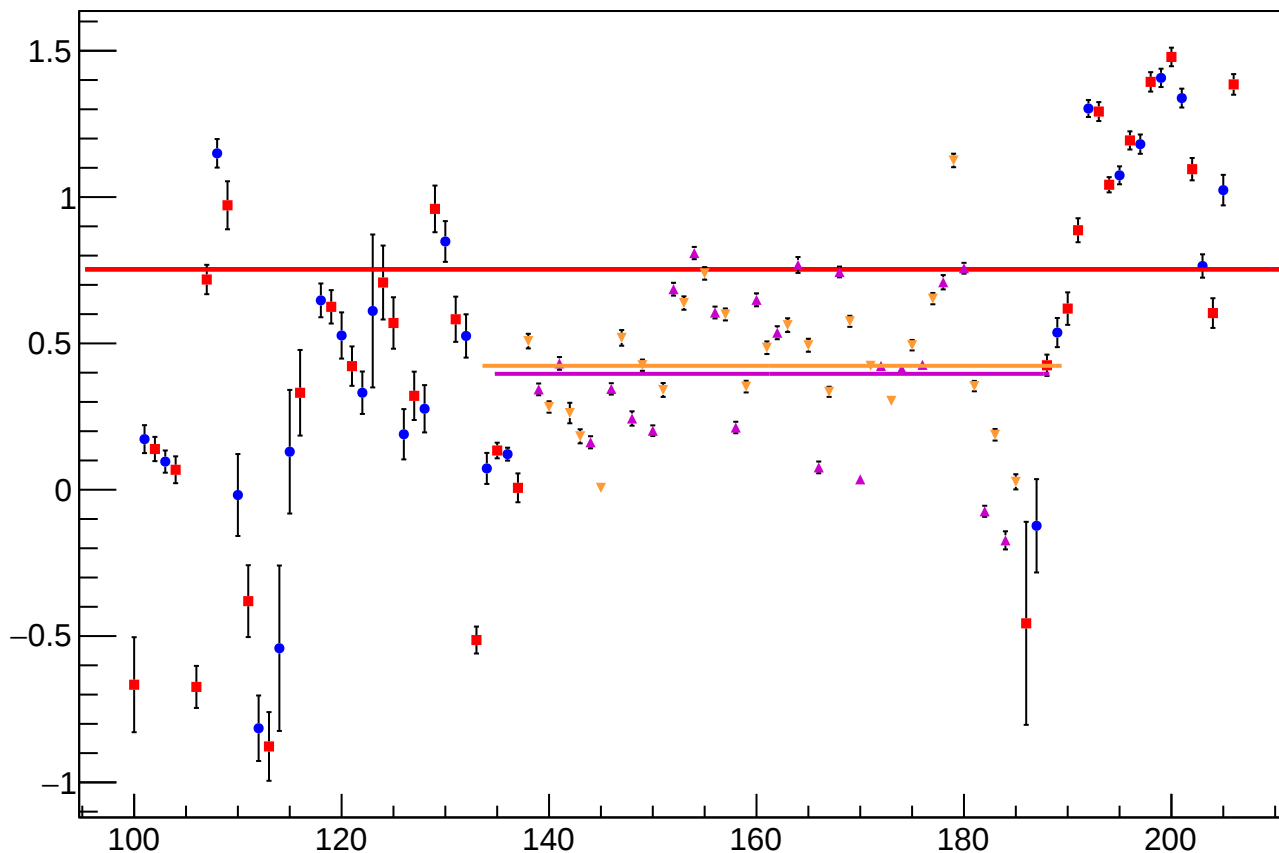
Right: -77.332 ± 0.143 χ^2/NDF : 69402.6/56

In: -71.450 ± 0.084 χ^2/NDF : 44108.6/48

Out: -72.270 ± 0.081 χ^2/NDF : 56580.3/55

All: -71.874 ± 0.058 χ^2/NDF : 100738.1/104

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.754 ± 0.009 χ^2/NDF : 3362.9/25

Left Out: 0.424 ± 0.004 χ^2/NDF : 2885.0/24

Right Out: 0.752 ± 0.008 χ^2/NDF : 4820.9/30

Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47

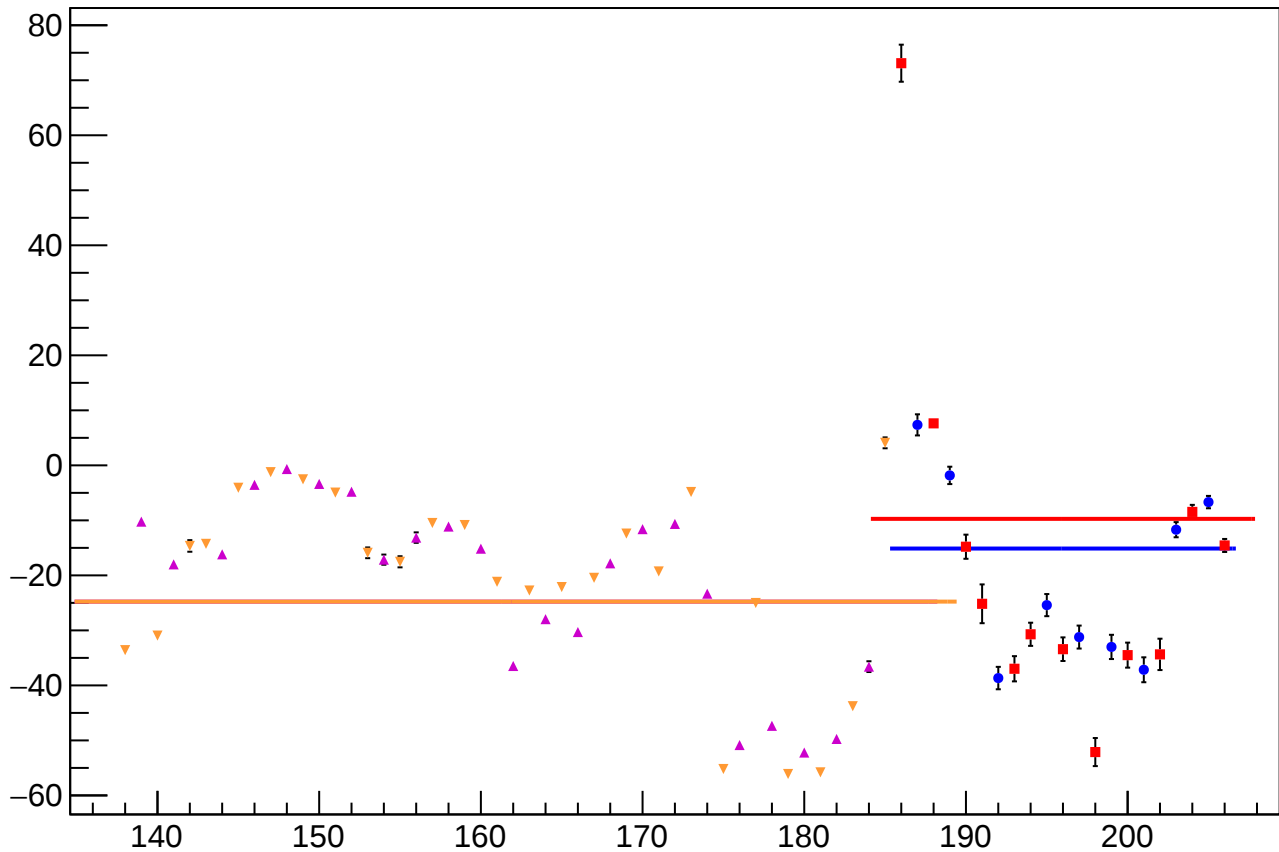
Right: 0.753 ± 0.006 χ^2/NDF : 8183.9/56

In: 0.458 ± 0.004 χ^2/NDF : 8688.1/48

Out: 0.487 ± 0.004 χ^2/NDF : 8958.7/55

All: 0.473 ± 0.003 χ^2/NDF : 17678.1/104

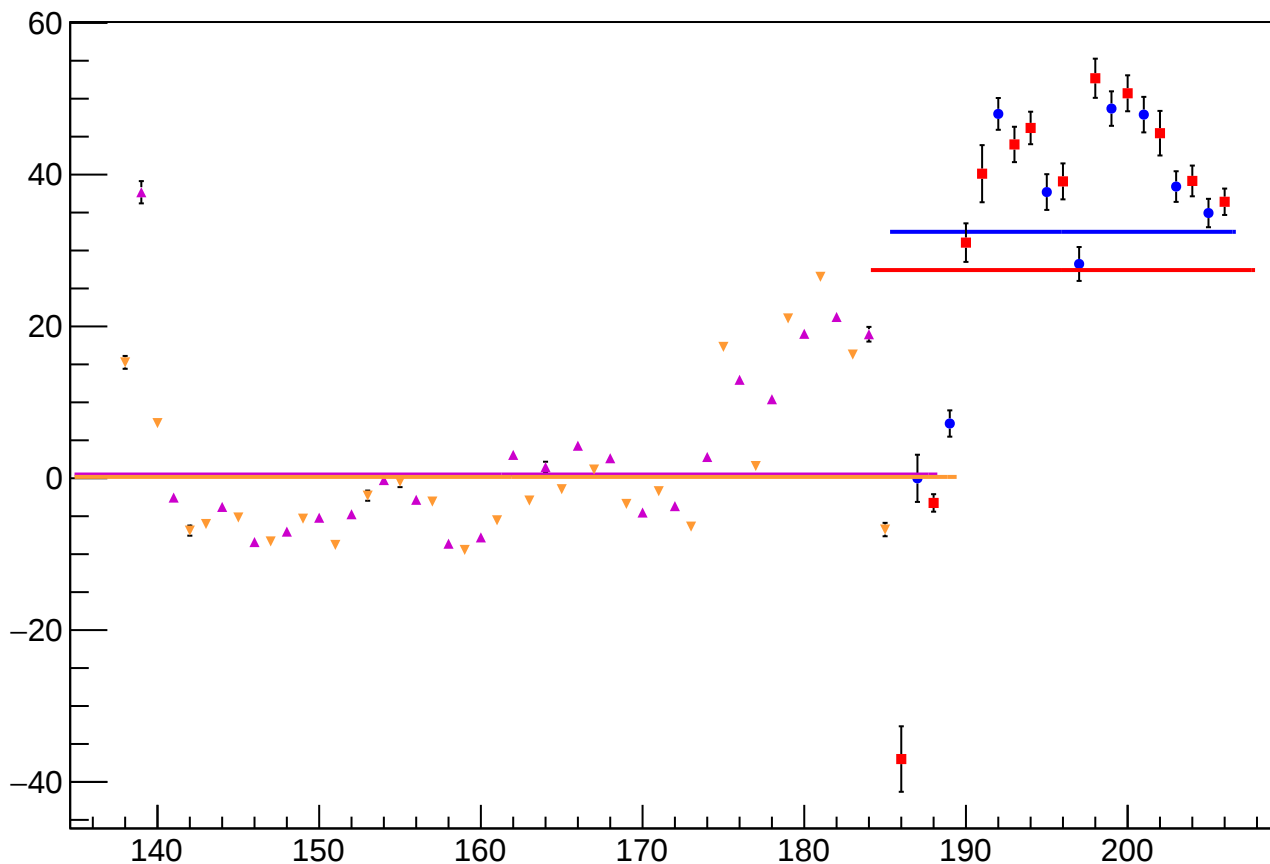
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.123 ± 0.568 $\chi^2/\text{NDF}: 649.8/8$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -9.727 ± 0.479 $\chi^2/\text{NDF}: 1948.6/11$
 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: -11.970 ± 0.366 $\chi^2/\text{NDF}: 2651.3/20$
 In: -24.200 ± 0.138 $\chi^2/\text{NDF}: 15729.3/31$
 Out: -23.593 ± 0.134 $\chi^2/\text{NDF}: 21177.8/36$
 All: -23.886 ± 0.096 $\chi^2/\text{NDF}: 36917.1/68$

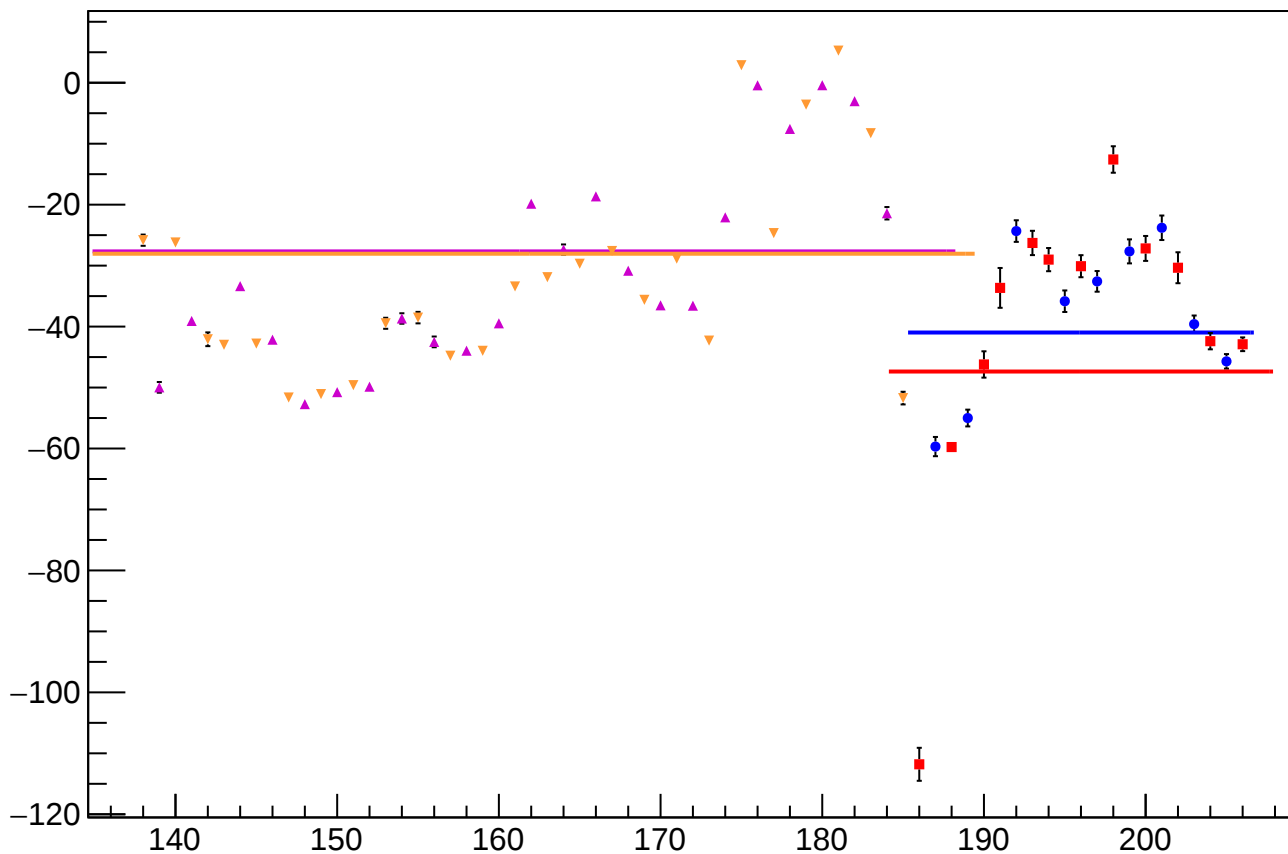
reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 32.463 $\pm$ 0.715 χ^2 /NDF: 490.1/8
 Left Out: 0.177 $\pm$ 0.109 χ^2 /NDF:8295.6/24
 Right Out: 27.425 $\pm$ 0.616 χ^2 /NDF: 1386.6/11
 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: 29.571 $\pm$ 0.467 χ^2 /NDF: 1905.2/20
 In: 1.259 $\pm$ 0.111 χ^2 /NDF:8994.2/31
 Out: 0.997 $\pm$ 0.107 χ^2 /NDF:11577.8/36
 All: 1.123 $\pm$ 0.077 χ^2 /NDF: 20574.9/68

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -27.862 ± 0.100 χ^2/NDF : 32151.3/47

Right: -44.862 ± 0.329 χ^2/NDF : 2266.9/20

In: -28.578 ± 0.137 χ^2/NDF : 16102.1/31

Out: -29.964 ± 0.133 χ^2/NDF : 20710.2/36

All: -29.295 ± 0.096 χ^2/NDF : 36864.9/68

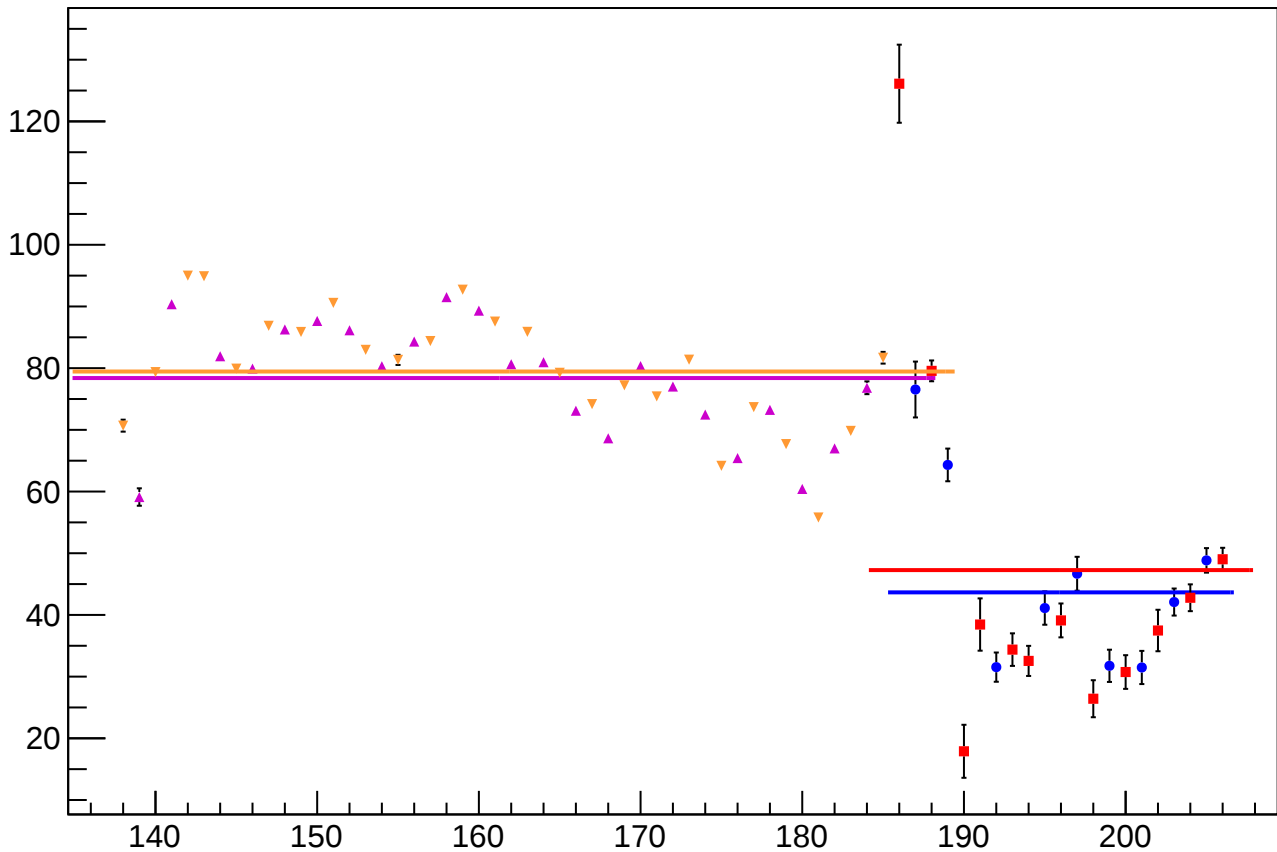
Right In: -40.973 ± 0.525 χ^2/NDF : 500.9/8

Left Out: -28.050 ± 0.140 χ^2/NDF : 17144.5/24

Right Out: -47.372 ± 0.422 χ^2/NDF : 1675.8/11

Left In: -27.666 ± 0.142 χ^2/NDF : 15003.2/22

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.655 $\pm$ 0.850 χ^2 /NDF: 190.4/8

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 47.266 $\pm$ 0.752 χ^2 /NDF: 740.7/11

Left In: 78.396 $\pm$ 0.127 χ^2 /NDF: 4707.3/22

Left: 78.941 $\pm$ 0.088 χ^2 /NDF: 10820.4/47

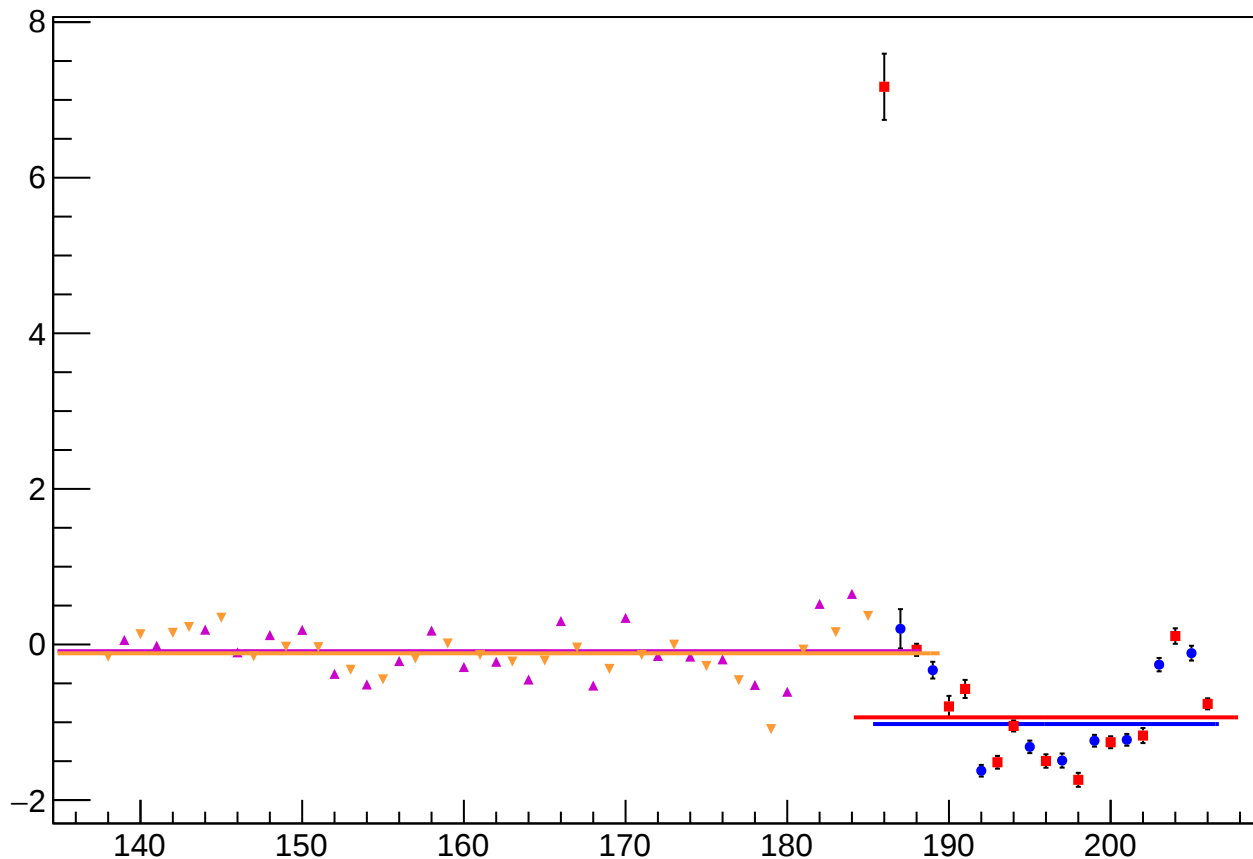
Right: 45.679 $\pm$ 0.563 χ^2 /NDF: 941.2/20

In: 77.640 $\pm$ 0.125 χ^2 /NDF: 6533.2/31

Out: 78.616 $\pm$ 0.122 χ^2 /NDF: 8600.1/36

All: 78.143 $\pm$ 0.087 χ^2 /NDF: 15164.5/68

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.023 ± 0.029 χ^2/NDF : 354.1/8

Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24

Right Out: -0.937 ± 0.026 χ^2/NDF : 811.9/11

Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47

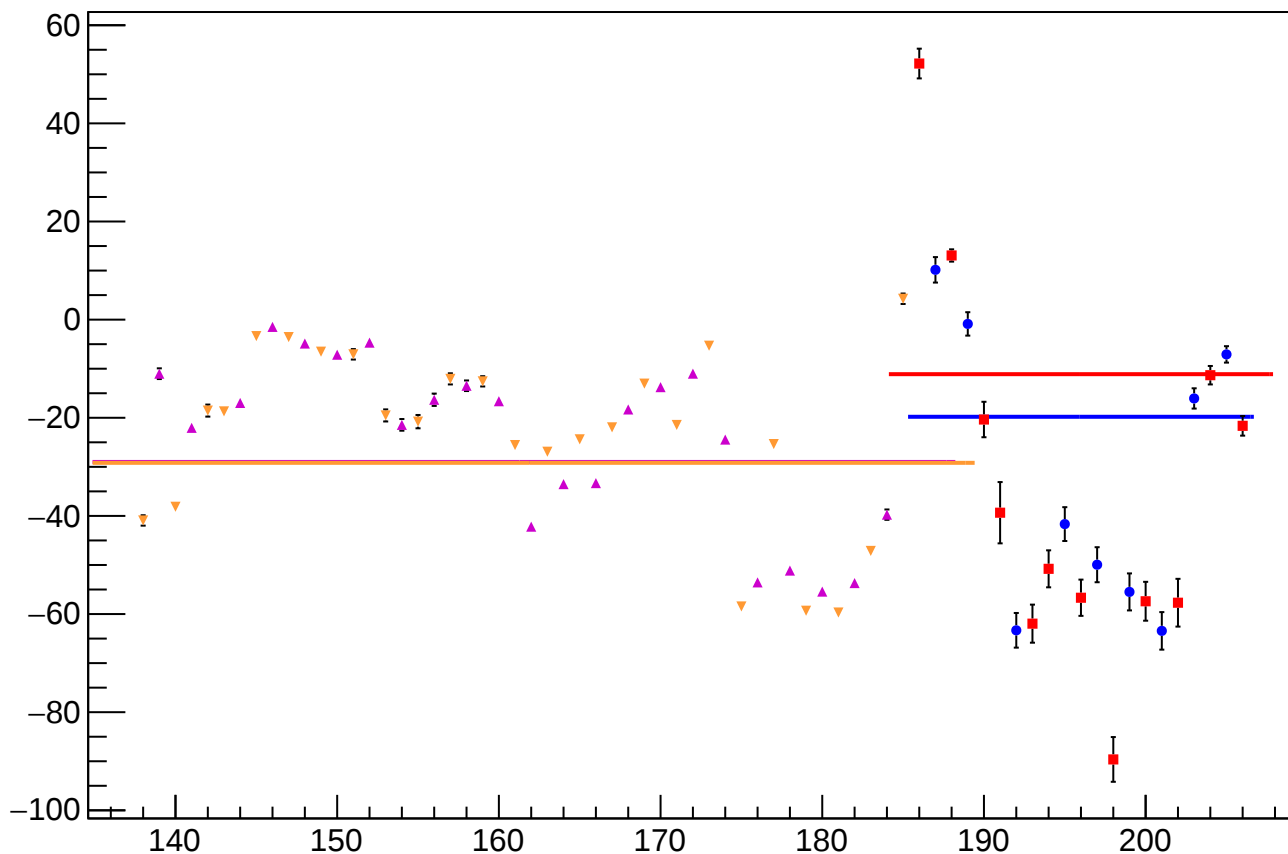
Right: -0.974 ± 0.019 χ^2/NDF : 1170.8/20

In: -0.121 ± 0.006 χ^2/NDF : 4457.4/31

Out: -0.151 ± 0.006 χ^2/NDF : 4073.9/36

All: -0.136 ± 0.004 χ^2/NDF : 8545.5/68

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.796 ± 0.878 χ^2/NDF : 740.0/8

Left Out: -29.180 ± 0.157 χ^2/NDF : 16912.2/24

Right Out: -11.114 ± 0.757 χ^2/NDF : 1823.6/11

Left In: -29.003 ± 0.160 χ^2/NDF : 13416.8/22

Left: -29.093 ± 0.112 χ^2/NDF : 30329.6/47

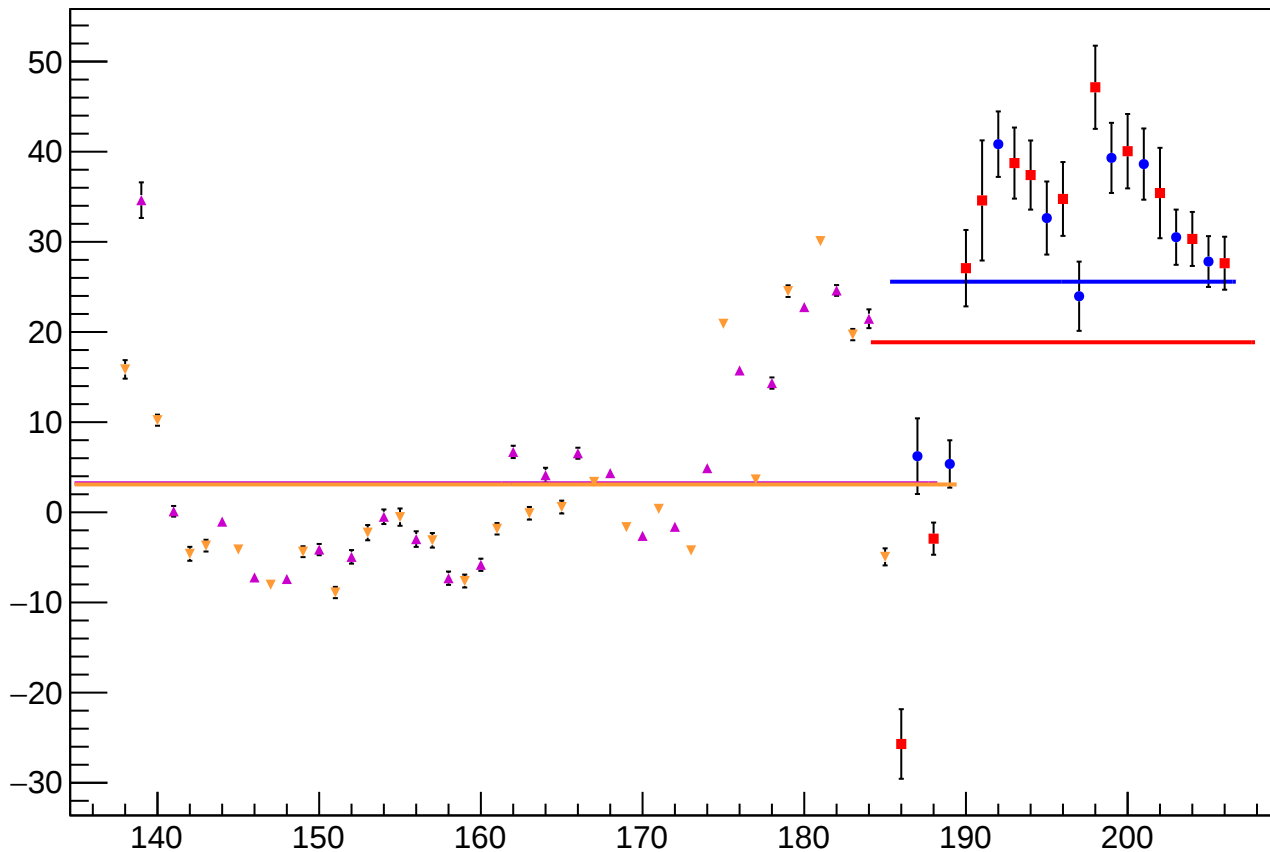
Right: -14.815 ± 0.573 χ^2/NDF : 2619.7/20

In: -28.707 ± 0.157 χ^2/NDF : 14263.2/31

Out: -28.437 ± 0.154 χ^2/NDF : 19282.2/36

All: -28.569 ± 0.110 χ^2/NDF : 33546.9/68

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.580 $\pm$ 1.140 χ^2 /NDF: 127.9/8

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF:8084.1/24

Right Out: 18.861 $\pm$ 0.988 χ^2 /NDF: 453.8/11

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

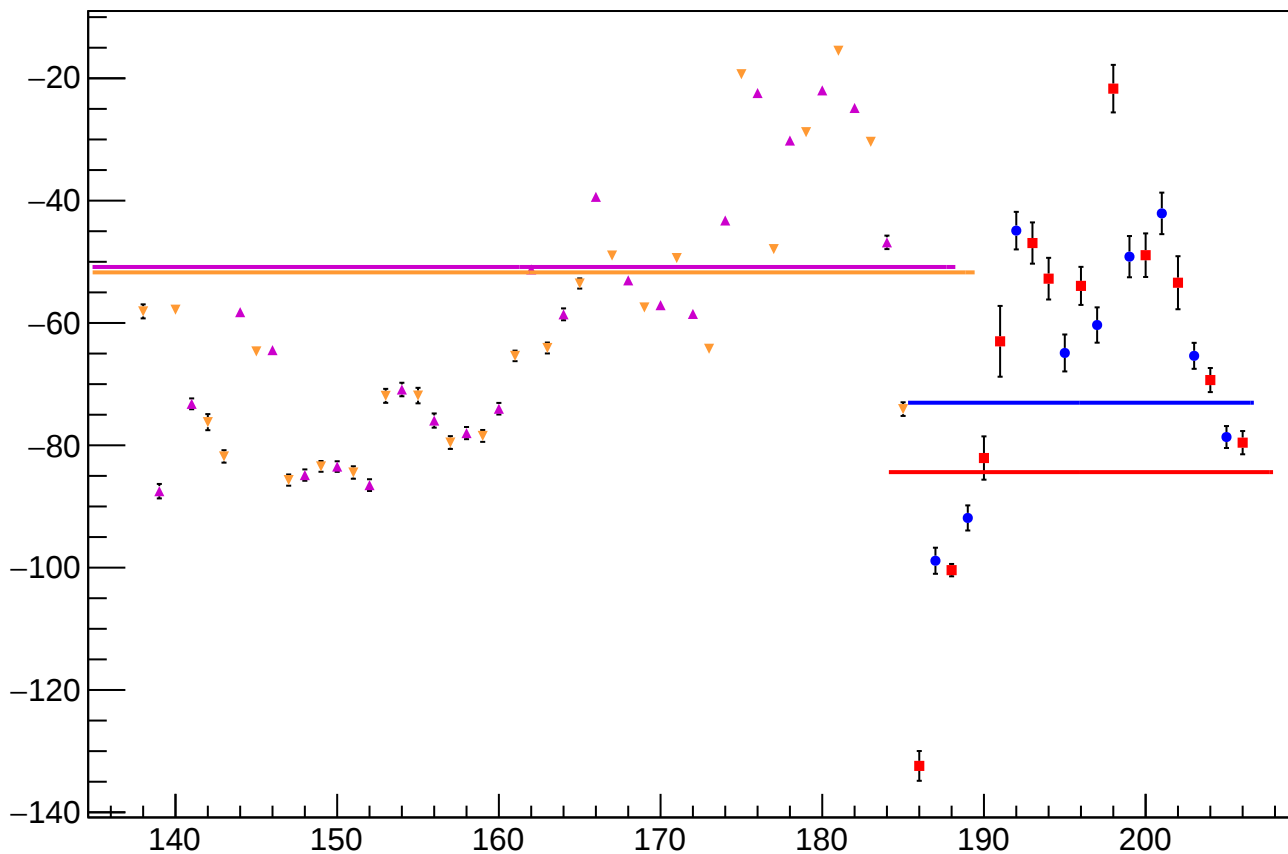
Right: 21.743 $\pm$ 0.747 χ^2 /NDF: 601.6/20

In: 3.495 $\pm$ 0.126 χ^2 /NDF:6745.3/31

Out: 3.337 $\pm$ 0.123 χ^2 /NDF:8788.5/36

All: 3.414 $\pm$ 0.088 χ^2 /NDF: 15534.6/68

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -73.037 ± 0.817 $\chi^2/\text{NDF}: 497.4/8$

Left Out: -51.729 ± 0.158 $\chi^2/\text{NDF}: 19538.0/24$

Right Out: -84.384 ± 0.664 $\chi^2/\text{NDF}: 1434.9/11$

Left In: -50.844 ± 0.160 $\chi^2/\text{NDF}: 17272.0/22$

Left: -51.293 ± 0.112 $\chi^2/\text{NDF}: 36825.5/47$

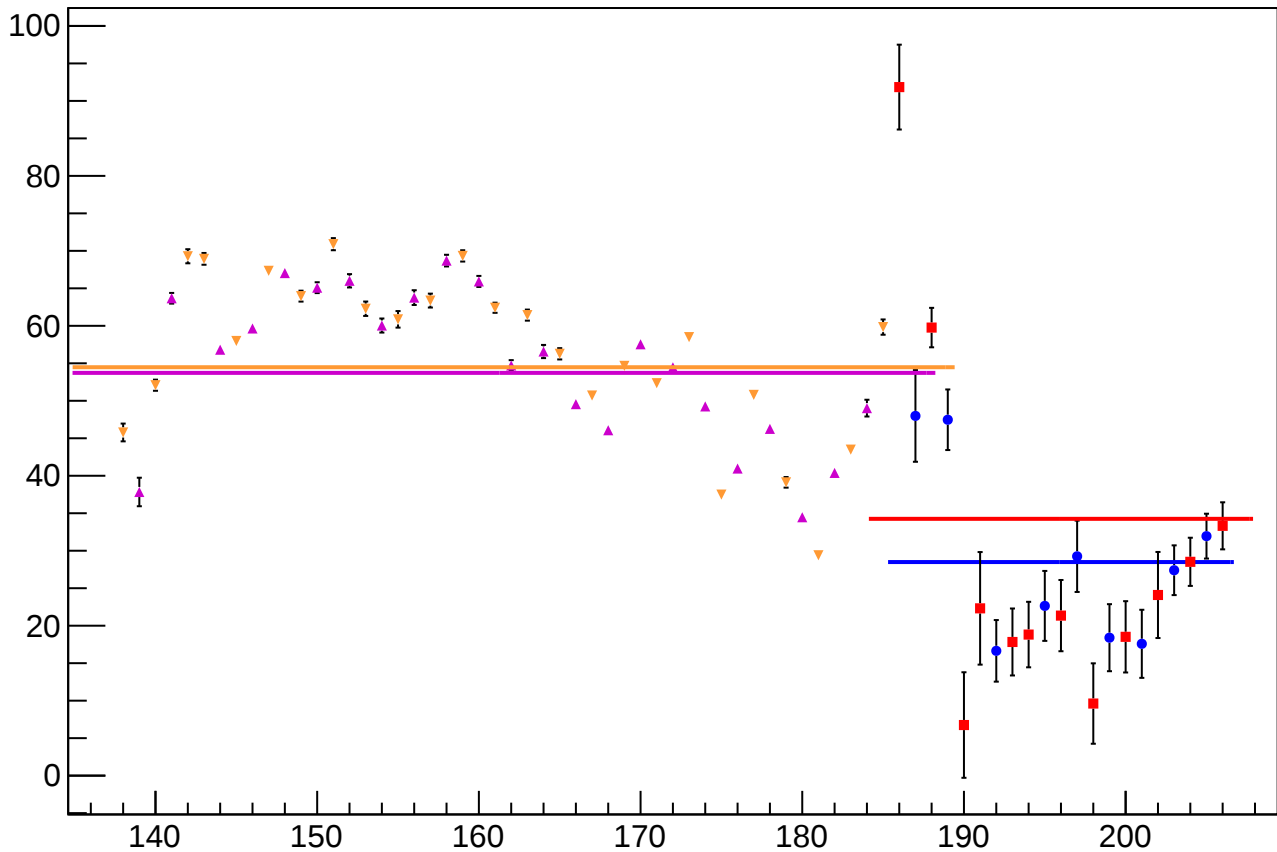
Right: -79.867 ± 0.515 $\chi^2/\text{NDF}: 2048.5/20$

In: -51.666 ± 0.157 $\chi^2/\text{NDF}: 18480.5/31$

Out: -53.476 ± 0.154 $\chi^2/\text{NDF}: 23260.9/36$

All: -52.591 ± 0.110 $\chi^2/\text{NDF}: 41809.3/68$

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.489 $\pm$ 1.363 χ^2 /NDF: 54.4/8

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF: 6266.9/24

Right Out: 34.255 $\pm$ 1.223 χ^2 /NDF: 287.2/11

Left In: 53.724 $\pm$ 0.143 χ^2 /NDF: 4585.7/22

Left: 54.107 $\pm$ 0.100 χ^2 /NDF: 10866.7/47

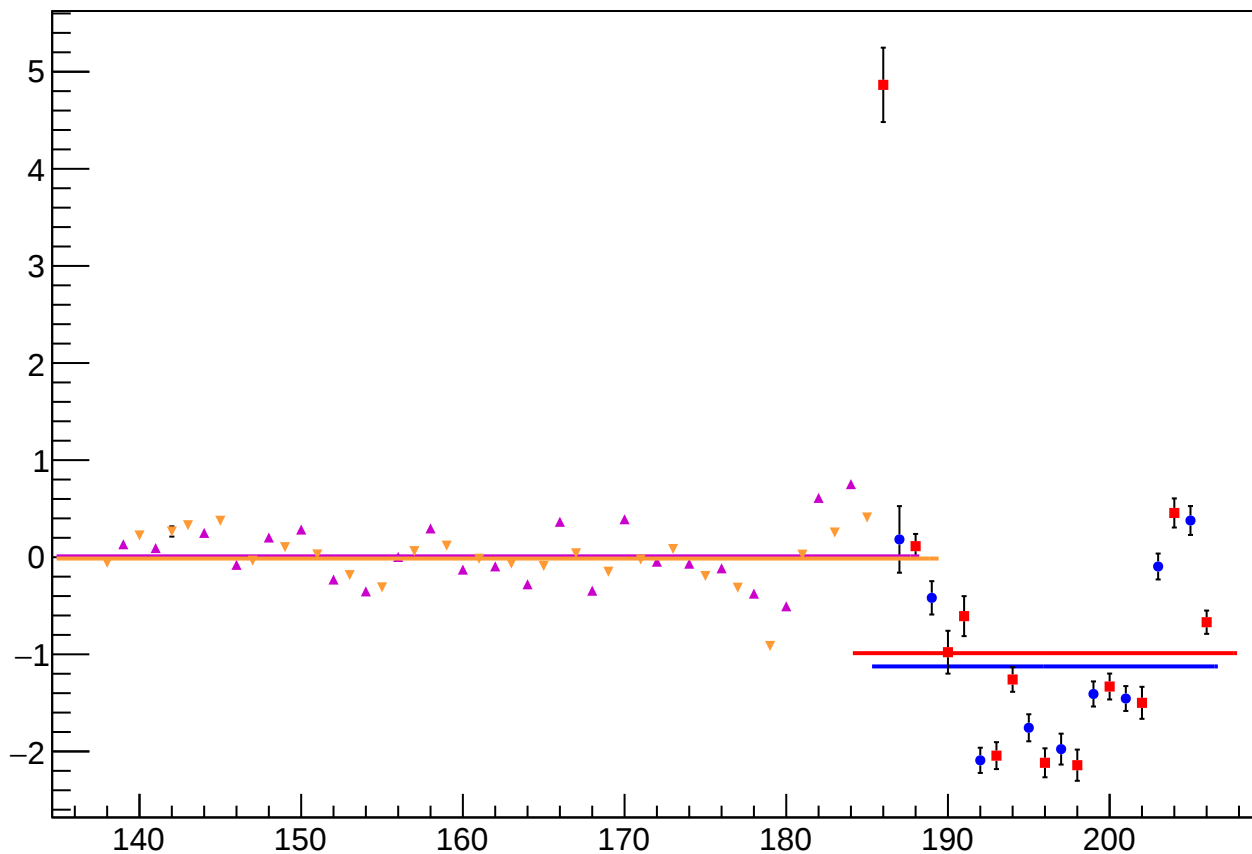
Right: 31.682 $\pm$ 0.910 χ^2 /NDF: 351.5/20

In: 53.448 $\pm$ 0.142 χ^2 /NDF: 4979.3/31

Out: 54.214 $\pm$ 0.139 χ^2 /NDF: 6823.7/36

All: 53.839 $\pm$ 0.100 χ^2 /NDF: 11817.8/68

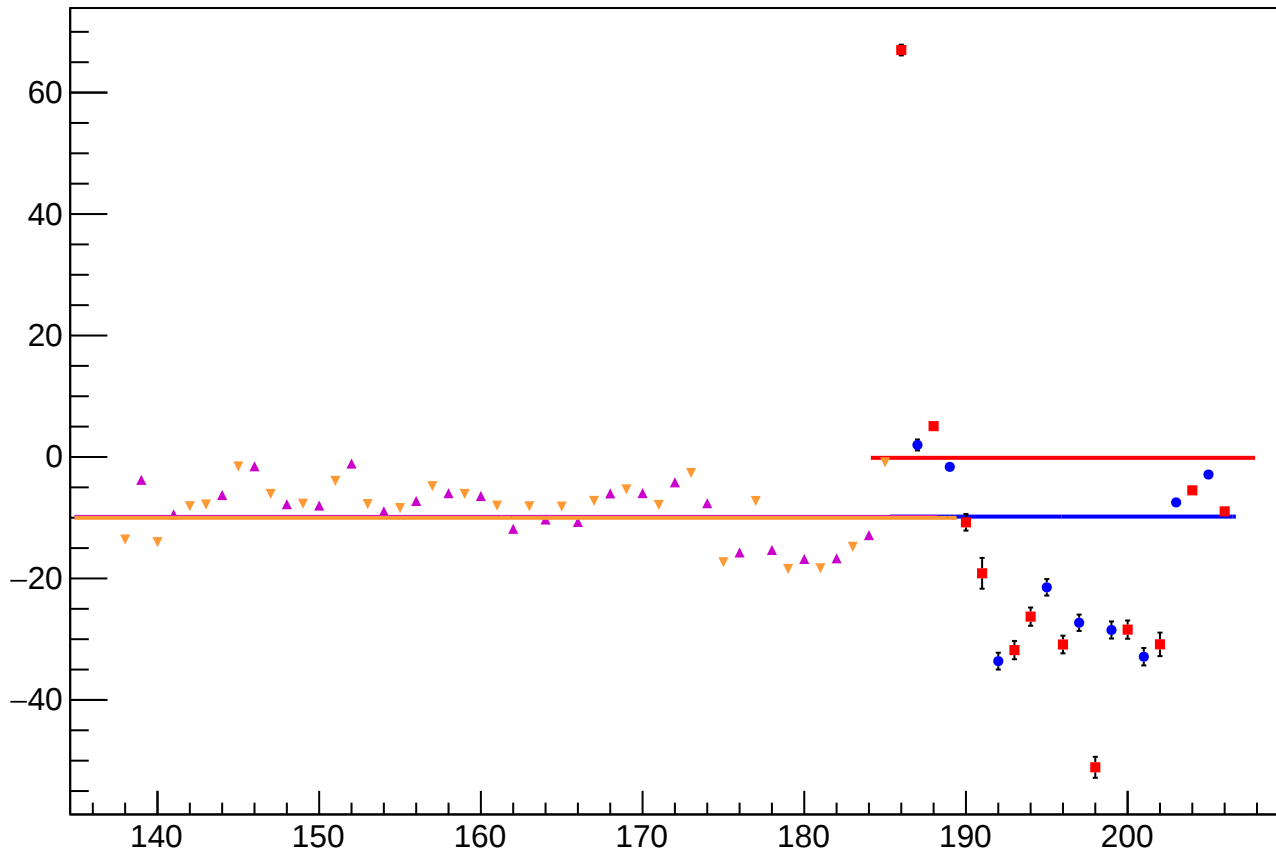
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.125 ± 0.049 χ^2/NDF : 309.0/8
 Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24
 Right Out: -0.988 ± 0.044 χ^2/NDF : 601.2/11
 Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47
 Right: -1.049 ± 0.033 χ^2/NDF : 914.5/20
 In: -0.011 ± 0.006 χ^2/NDF : 3053.4/31
 Out: -0.034 ± 0.006 χ^2/NDF : 2738.2/36
 All: -0.023 ± 0.005 χ^2/NDF : 5798.3/68

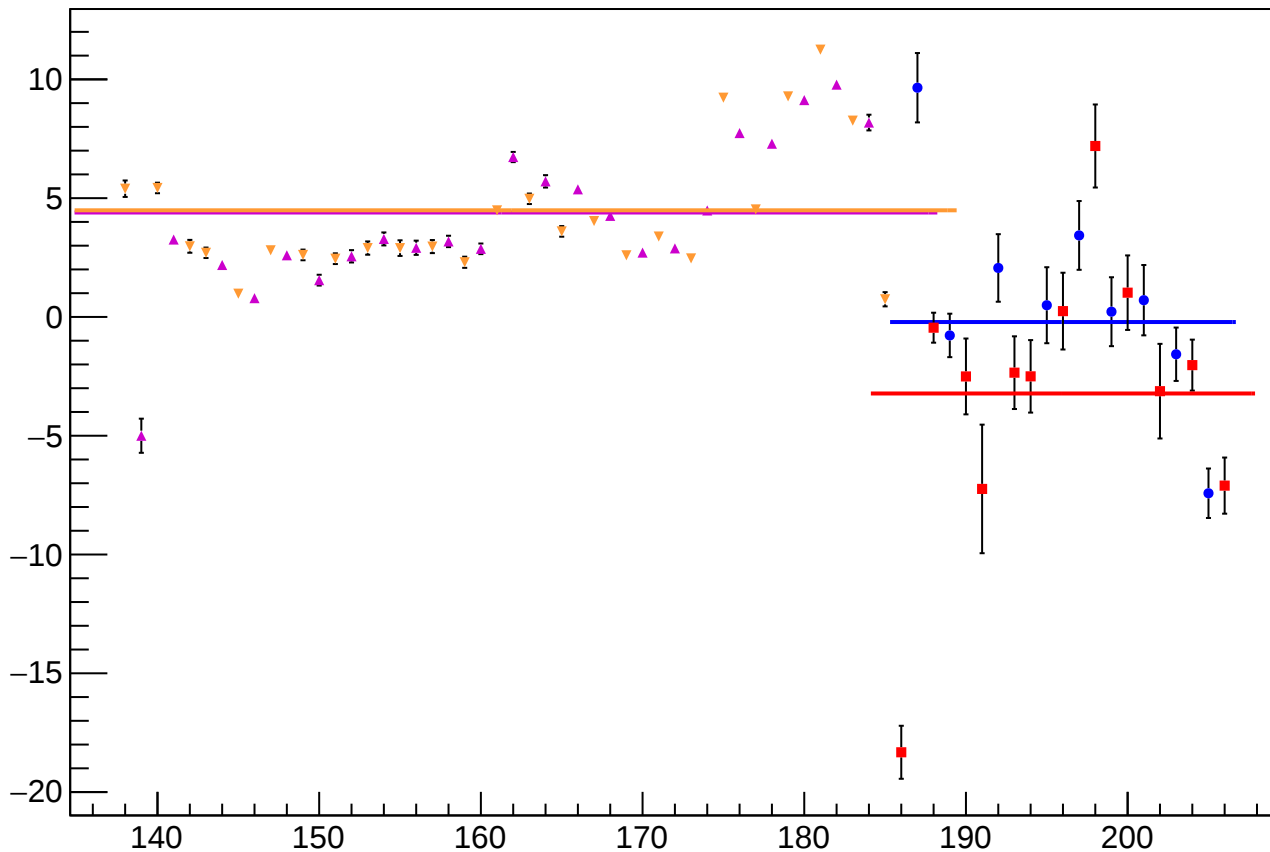
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.814+/-0.320 χ^2/NDF : 1380.8/8
 Left Out: -10.017+/-0.051 χ^2/NDF :12552.8/24
 Right Out: -0.137+/-0.276 χ^2/NDF : 8862.5/11
 Left In: -9.865+/-0.051 χ^2/NDF :9345.4/22

Left: -9.942+/-0.036 χ^2/NDF : 21902.5/47
 Right: -4.252+/-0.209 χ^2/NDF : 10767.8/20
 In: -9.864+/-0.051 χ^2/NDF :10726.2/31
 Out: -9.694+/-0.050 χ^2/NDF :22658.8/36
 All: -9.777+/-0.036 χ^2/NDF : 33390.7/68

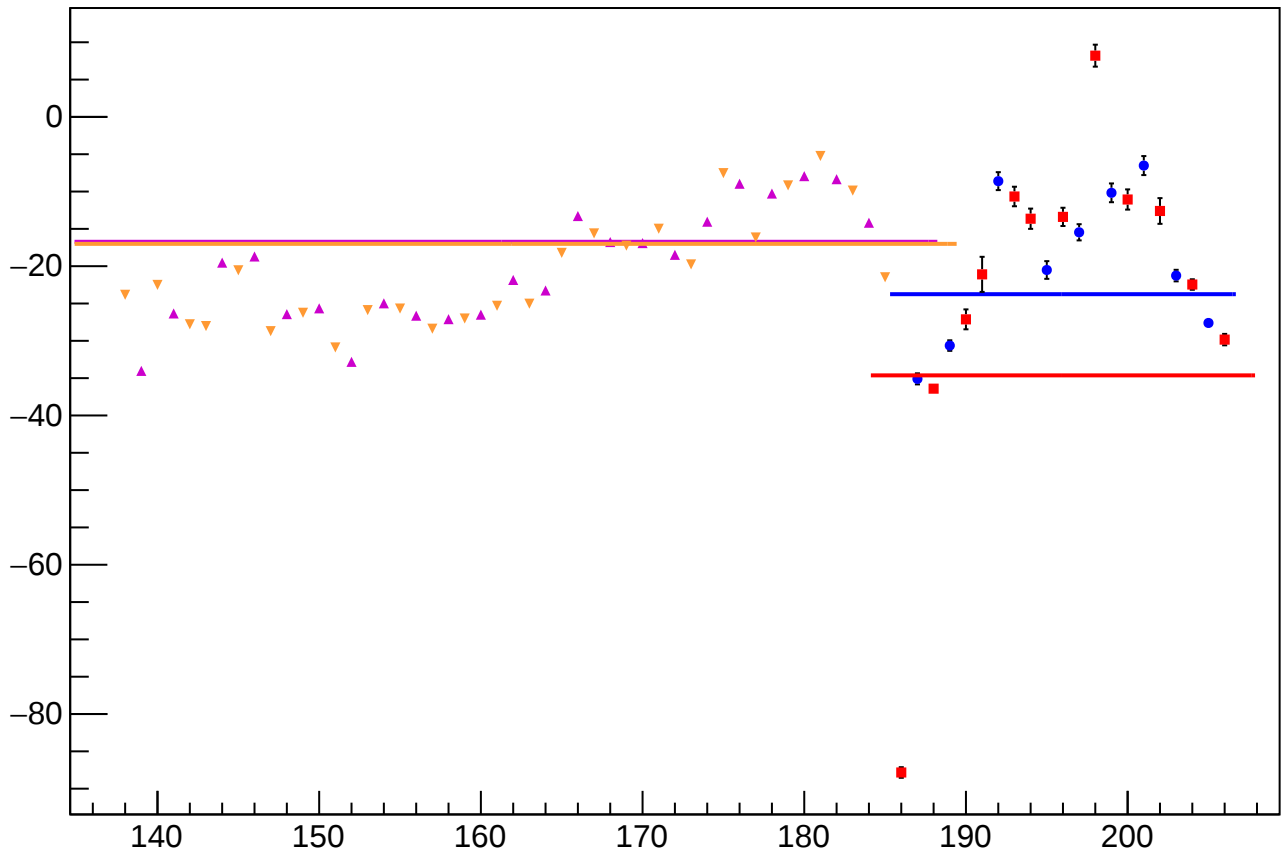
reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.214 ± 0.420 $\chi^2/\text{NDF}: 105.0/8$
 Left Out: 4.489 ± 0.041 $\chi^2/\text{NDF}: 4832.3/24$
 Right Out: -3.222 ± 0.361 $\chi^2/\text{NDF}: 264.8/11$
 Left In: 4.396 ± 0.041 $\chi^2/\text{NDF}: 4230.4/22$

Left: 4.443 ± 0.029 $\chi^2/\text{NDF}: 9065.3/47$
 Right: -1.942 ± 0.274 $\chi^2/\text{NDF}: 399.2/20$
 In: 4.352 ± 0.041 $\chi^2/\text{NDF}: 4454.8/31$
 Out: 4.392 ± 0.040 $\chi^2/\text{NDF}: 5546.6/36$
 All: 4.372 ± 0.029 $\chi^2/\text{NDF}: 10001.9/68$

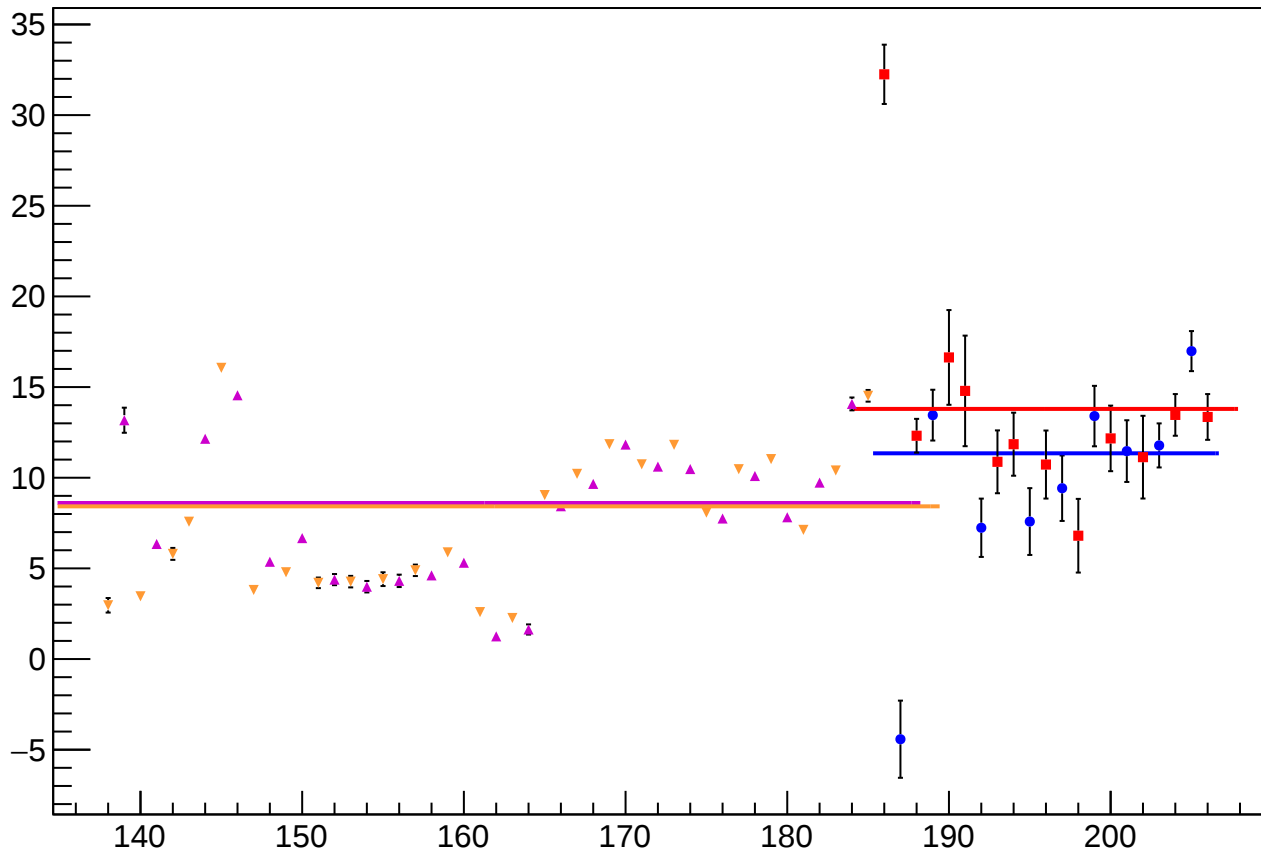
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -23.751 ± 0.298 $\chi^2/\text{NDF}: 897.9/8$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -34.628 ± 0.240 $\chi^2/\text{NDF}: 8217.1/11$
 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: -30.341 ± 0.187 $\chi^2/\text{NDF}: 9923.0/20$
 In: -16.936 ± 0.051 $\chi^2/\text{NDF}: 20214.5/31$
 Out: -17.770 ± 0.050 $\chi^2/\text{NDF}: 35458.2/36$
 All: -17.360 ± 0.036 $\chi^2/\text{NDF}: 55809.9/68$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.347 ± 0.505 $\chi^2/\text{NDF}: 96.7/8$

Left Out: 8.422 ± 0.046 $\chi^2/\text{NDF}: 6470.1/24$

Right Out: 13.796 ± 0.454 $\chi^2/\text{NDF}: 152.2/11$

Left In: 8.606 ± 0.046 $\chi^2/\text{NDF}: 5504.2/22$

Left: 8.513 ± 0.032 $\chi^2/\text{NDF}: 11982.4/47$

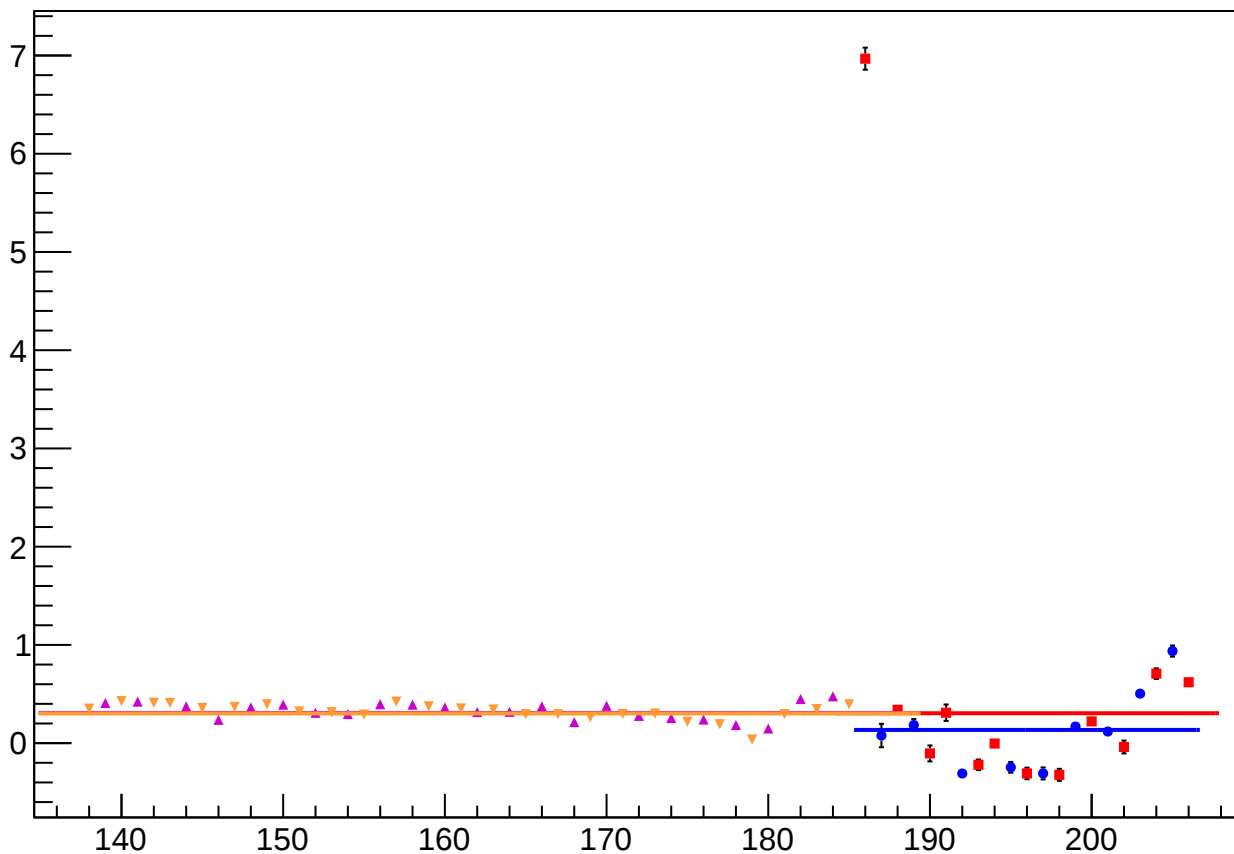
Right: 12.701 ± 0.338 $\chi^2/\text{NDF}: 261.8/20$

In: 8.629 ± 0.046 $\chi^2/\text{NDF}: 5630.1/31$

Out: 8.476 ± 0.045 $\chi^2/\text{NDF}: 6761.0/36$

All: 8.551 ± 0.032 $\chi^2/\text{NDF}: 12396.8/68$

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected

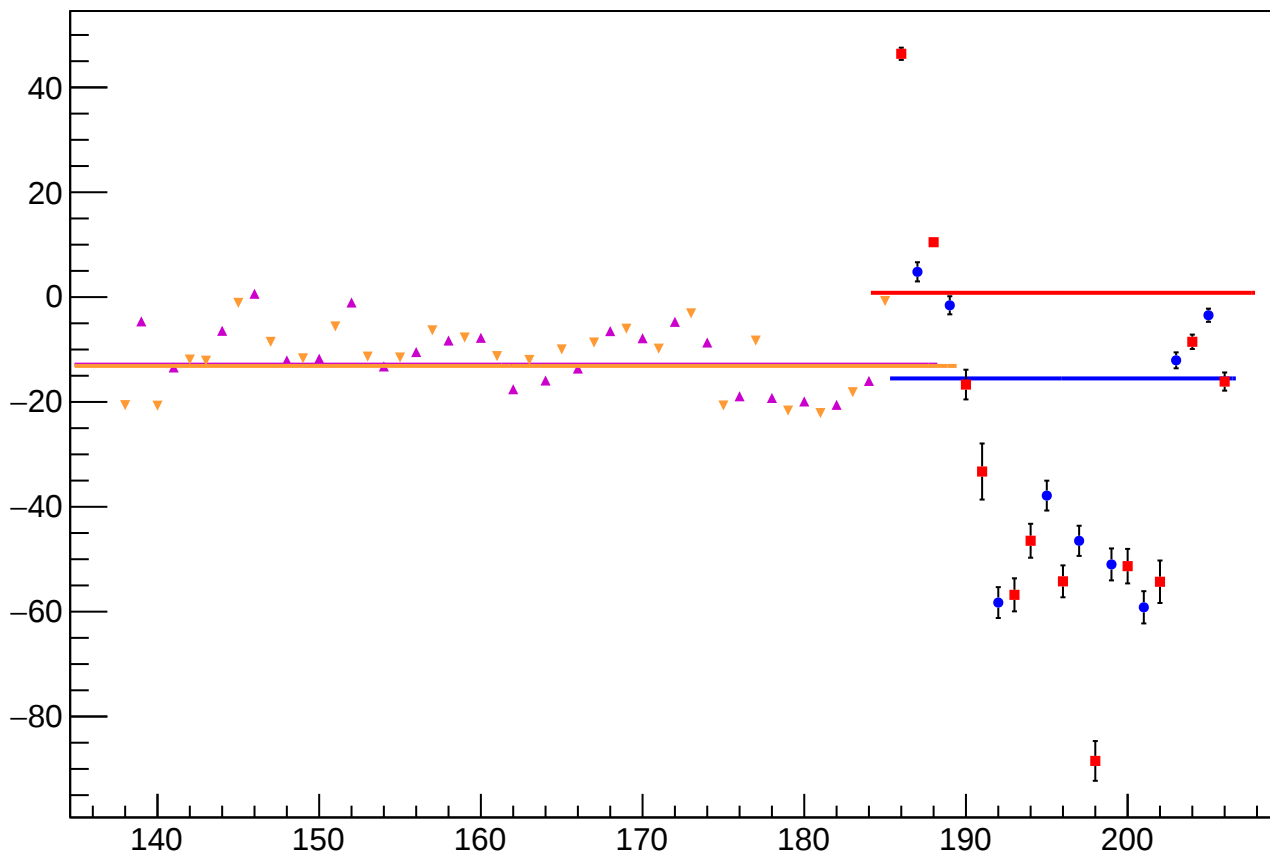


Right In: 0.135 $\pm$ 0.019 χ^2 /NDF: 433.7/8
 Left Out: 0.302 $\pm$ 0.002 χ^2 /NDF:1590.9/24
 Right Out: 0.304 $\pm$ 0.017 χ^2 /NDF: 4028.4/11
 Left In: 0.307 $\pm$ 0.002 χ^2 /NDF:1699.5/22

Left: 0.305 $\pm$ 0.001 χ^2 /NDF: 3293.0/47
 Right: 0.228 $\pm$ 0.012 χ^2 /NDF: 4508.2/20
 In: 0.305 $\pm$ 0.002 χ^2 /NDF:2218.5/31
 Out: 0.303 $\pm$ 0.002 χ^2 /NDF:5619.3/36

All: 0.304 $\pm$ 0.001 χ^2 /NDF: 7838.6/68

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.514 ± 0.663 $\chi^2/\text{NDF}: 1011.6/8$

Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$

Right Out: 0.820 ± 0.540 $\chi^2/\text{NDF}: 3720.9/11$

Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

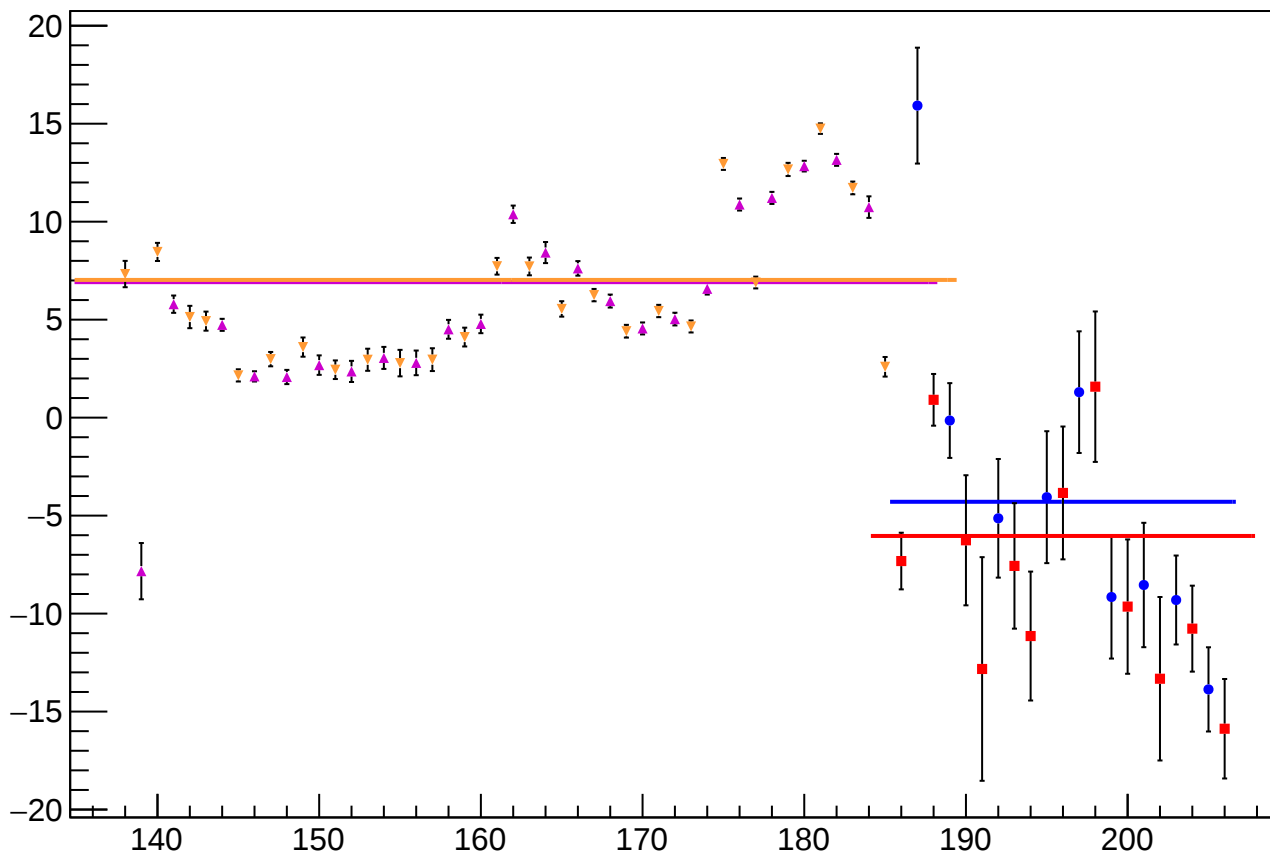
Right: -5.682 ± 0.419 $\chi^2/\text{NDF}: 5097.3/20$

In: -12.938 ± 0.094 $\chi^2/\text{NDF}: 5803.1/31$

Out: -12.717 ± 0.092 $\chi^2/\text{NDF}: 10347.0/36$

All: -12.825 ± 0.066 $\chi^2/\text{NDF}: 16152.9/68$

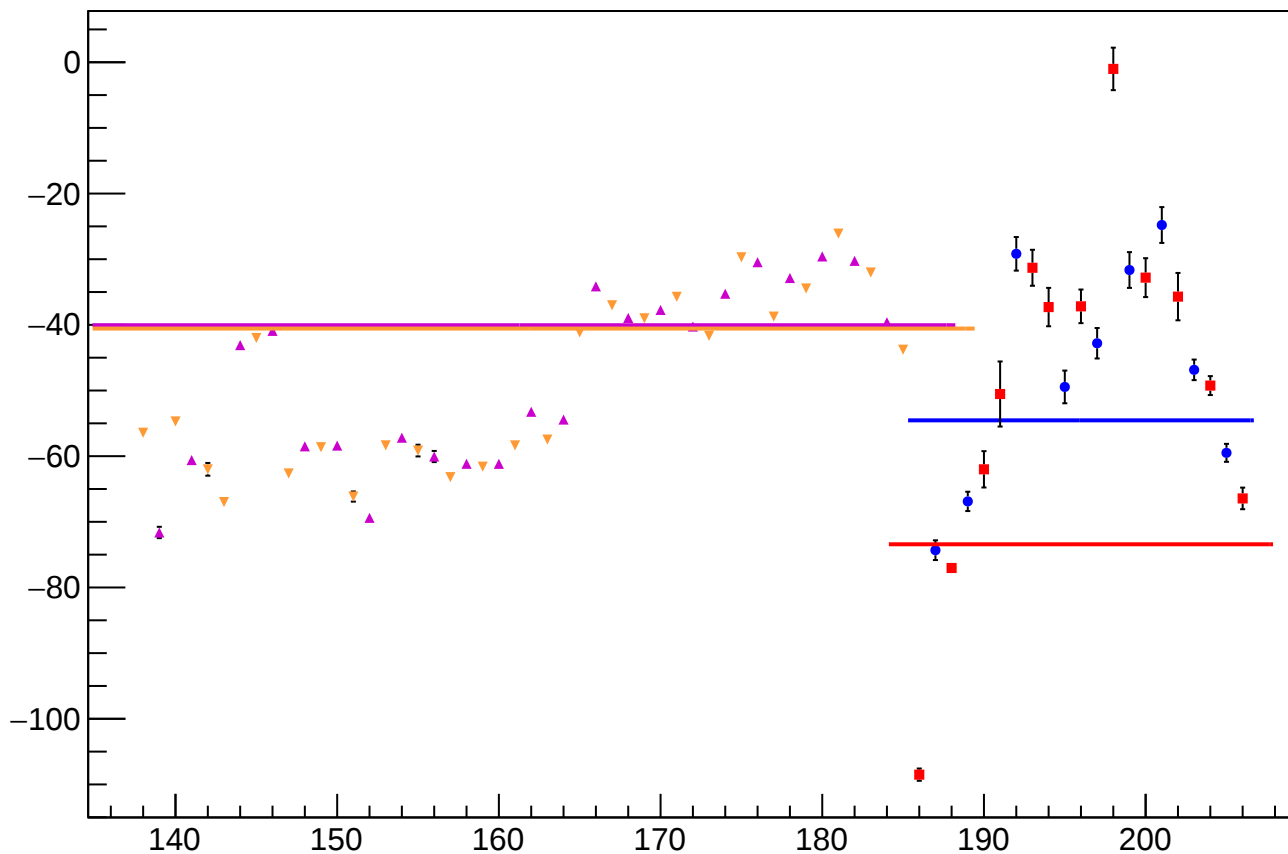
reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.294 ± 0.877 $\chi^2/\text{NDF}: 83.7/8$
 Left Out: 7.028 ± 0.077 $\chi^2/\text{NDF}: 2665.3/24$
 Right Out: -6.038 ± 0.703 $\chi^2/\text{NDF}: 60.7/11$
 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: -5.356 ± 0.548 $\chi^2/\text{NDF}: 146.9/20$
 In: 6.826 ± 0.077 $\chi^2/\text{NDF}: 2674.2/31$
 Out: 6.872 ± 0.077 $\chi^2/\text{NDF}: 3067.6/36$
 All: 6.849 ± 0.054 $\chi^2/\text{NDF}: 5741.9/68$

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -54.544 ± 0.618 χ^2/NDF : 598.2/8

Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24

Right Out: -73.421 ± 0.465 χ^2/NDF : 3155.6/11

Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47

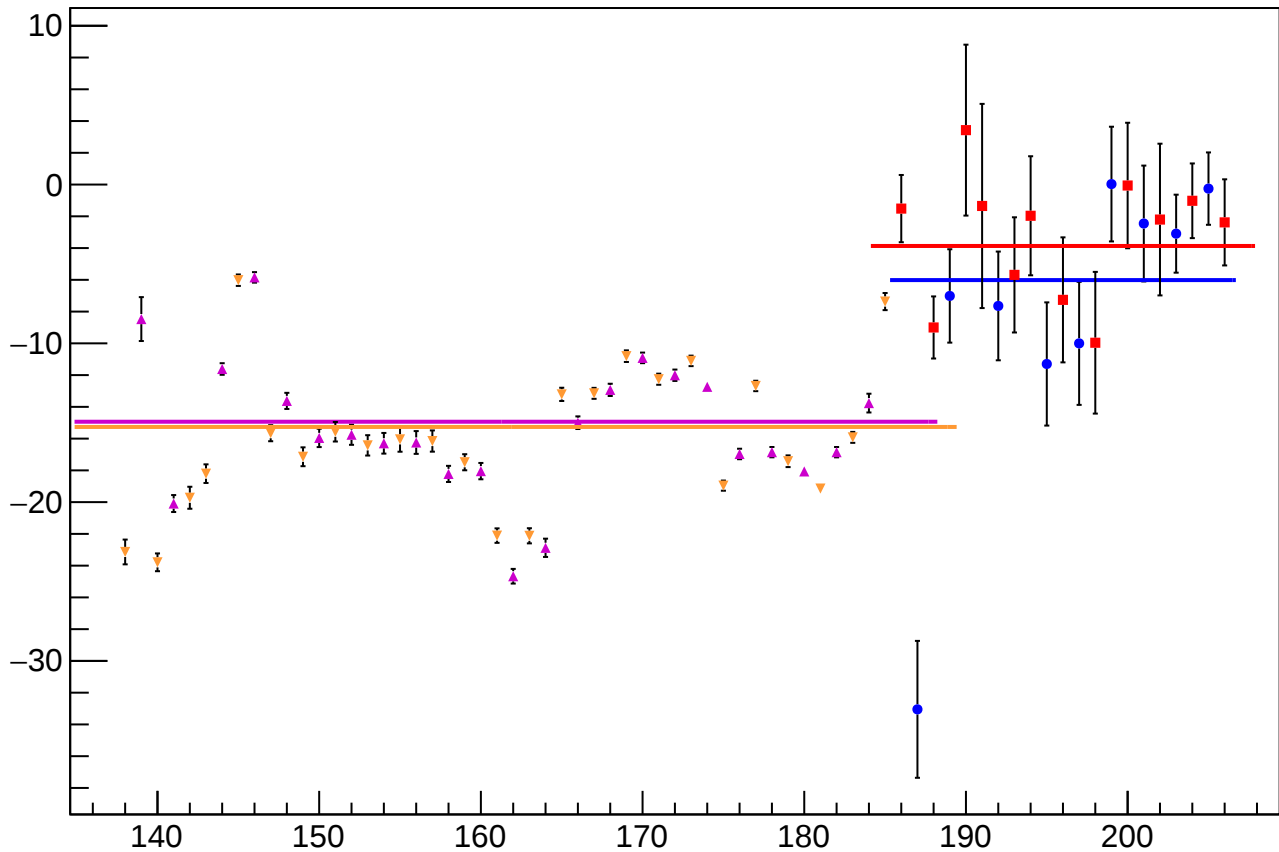
Right: -66.603 ± 0.372 χ^2/NDF : 4349.0/20

In: -40.392 ± 0.095 χ^2/NDF : 15061.7/31

Out: -41.872 ± 0.093 χ^2/NDF : 23587.6/36

All: -41.145 ± 0.066 χ^2/NDF : 38774.1/68

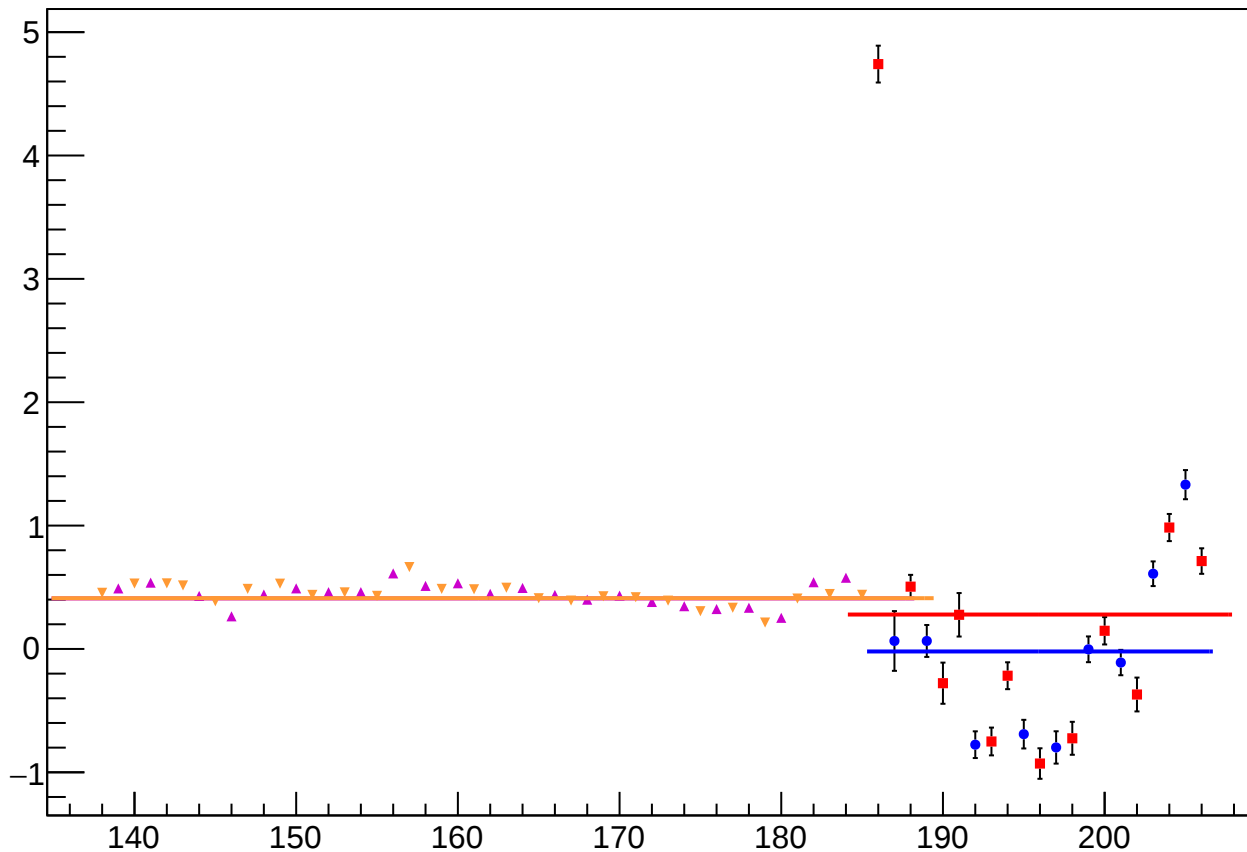
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.017 ± 1.055 $\chi^2/\text{NDF}: 54.1/8$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -3.868 ± 0.902 $\chi^2/\text{NDF}: 16.0/11$
 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: -4.774 ± 0.686 $\chi^2/\text{NDF}: 72.6/20$
 In: -14.876 ± 0.087 $\chi^2/\text{NDF}: 2324.8/31$
 Out: -15.163 ± 0.086 $\chi^2/\text{NDF}: 2769.9/36$
 All: -15.021 ± 0.061 $\chi^2/\text{NDF}: 5100.2/68$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.020 ± 0.039 χ^2/NDF : 289.4/8

Left Out: 0.411 ± 0.004 χ^2/NDF : 428.7/24

Right Out: 0.279 ± 0.035 χ^2/NDF : 1247.3/11

Left In: 0.409 ± 0.004 χ^2/NDF : 557.8/22

Left: 0.410 ± 0.003 χ^2/NDF : 986.7/47

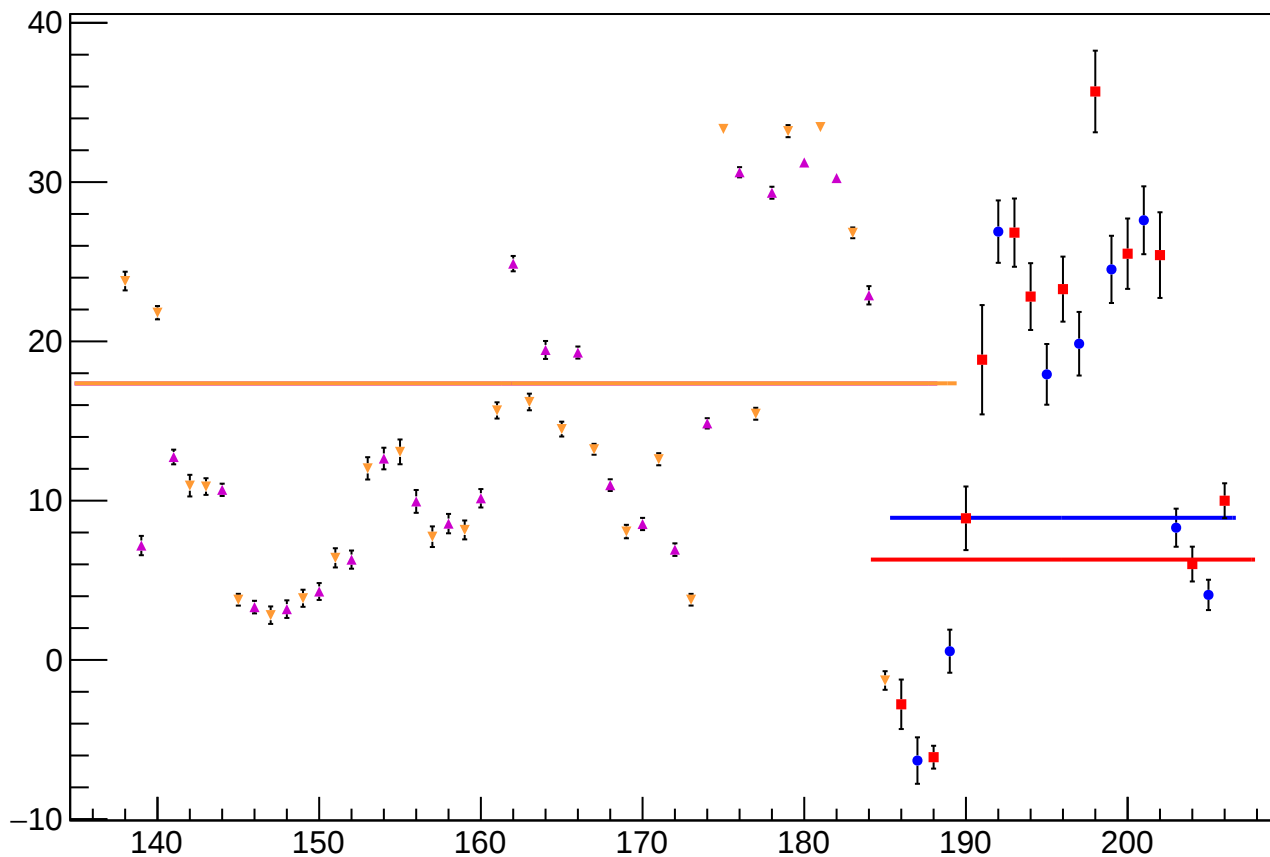
Right: 0.146 ± 0.026 χ^2/NDF : 1569.2/20

In: 0.405 ± 0.004 χ^2/NDF : 966.5/31

Out: 0.410 ± 0.004 χ^2/NDF : 1690.2/36

All: 0.407 ± 0.003 χ^2/NDF : 2657.4/68

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.924 ± 0.497 χ^2/NDF : 441.6/8

Left Out: 17.367 ± 0.087 χ^2/NDF : 16337.6/24

Right Out: 6.301 ± 0.425 χ^2/NDF : 840.8/11

Left In: 17.355 ± 0.089 χ^2/NDF : 12745.1/22

Left: 17.361 ± 0.062 χ^2/NDF : 29082.8/47

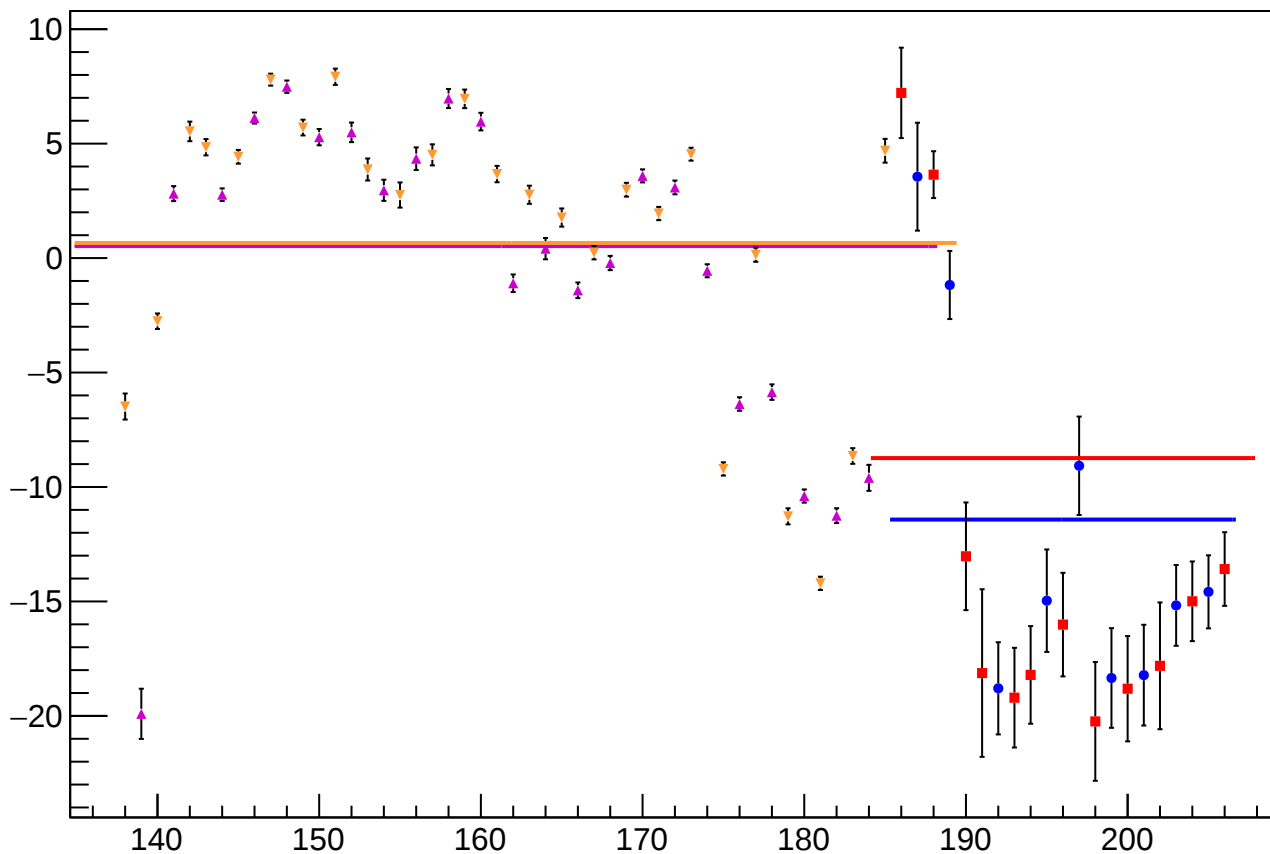
Right: 7.408 ± 0.323 χ^2/NDF : 1298.5/20

In: 17.094 ± 0.088 χ^2/NDF : 13465.7/31

Out: 16.920 ± 0.085 χ^2/NDF : 17830.4/36

All: 17.005 ± 0.061 χ^2/NDF : 31298.1/68

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.423 ± 0.642 χ^2/NDF : 133.0/8

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -8.737 ± 0.552 χ^2/NDF : 346.4/11

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

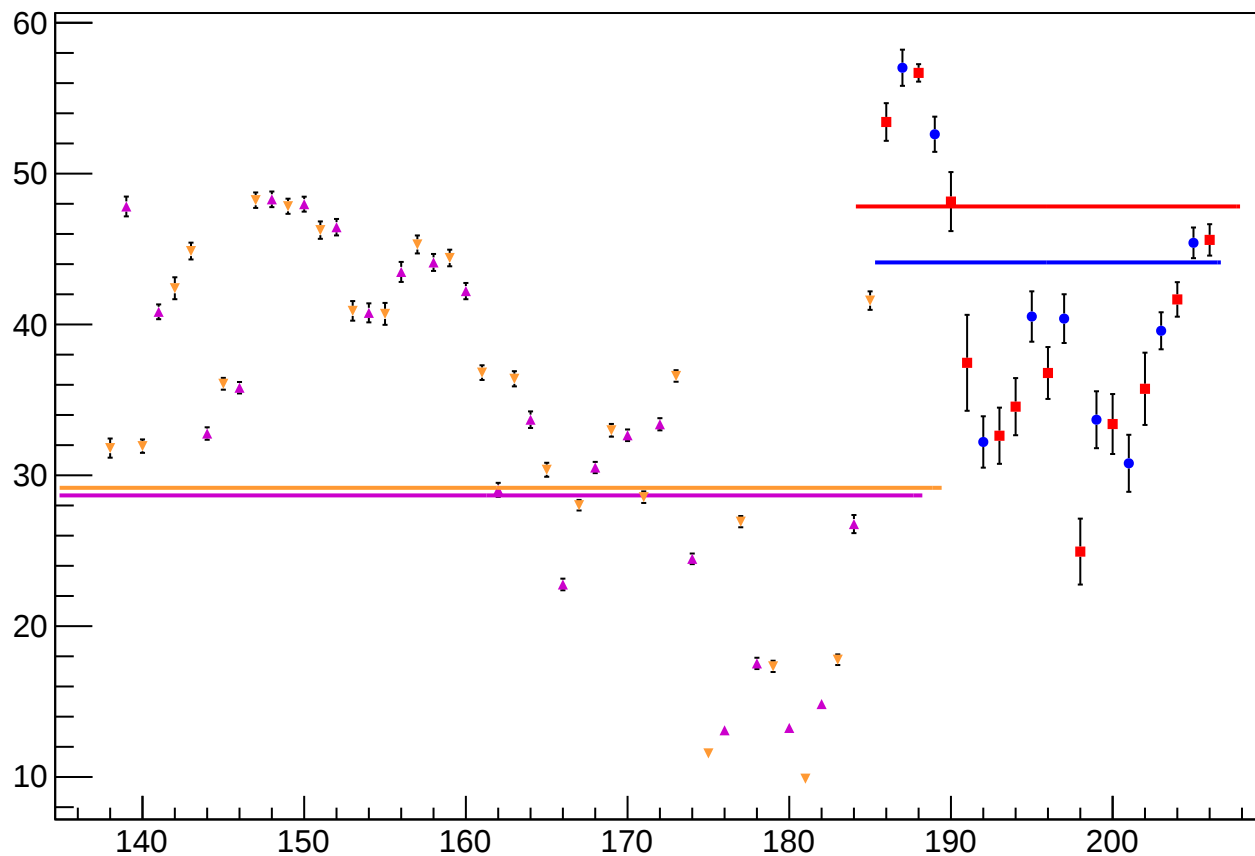
Right: -9.879 ± 0.419 χ^2/NDF : 489.5/20

In: 0.380 ± 0.070 χ^2/NDF : 7204.7/31

Out: 0.515 ± 0.069 χ^2/NDF : 9185.3/36

All: 0.449 ± 0.049 χ^2/NDF : 16391.9/68

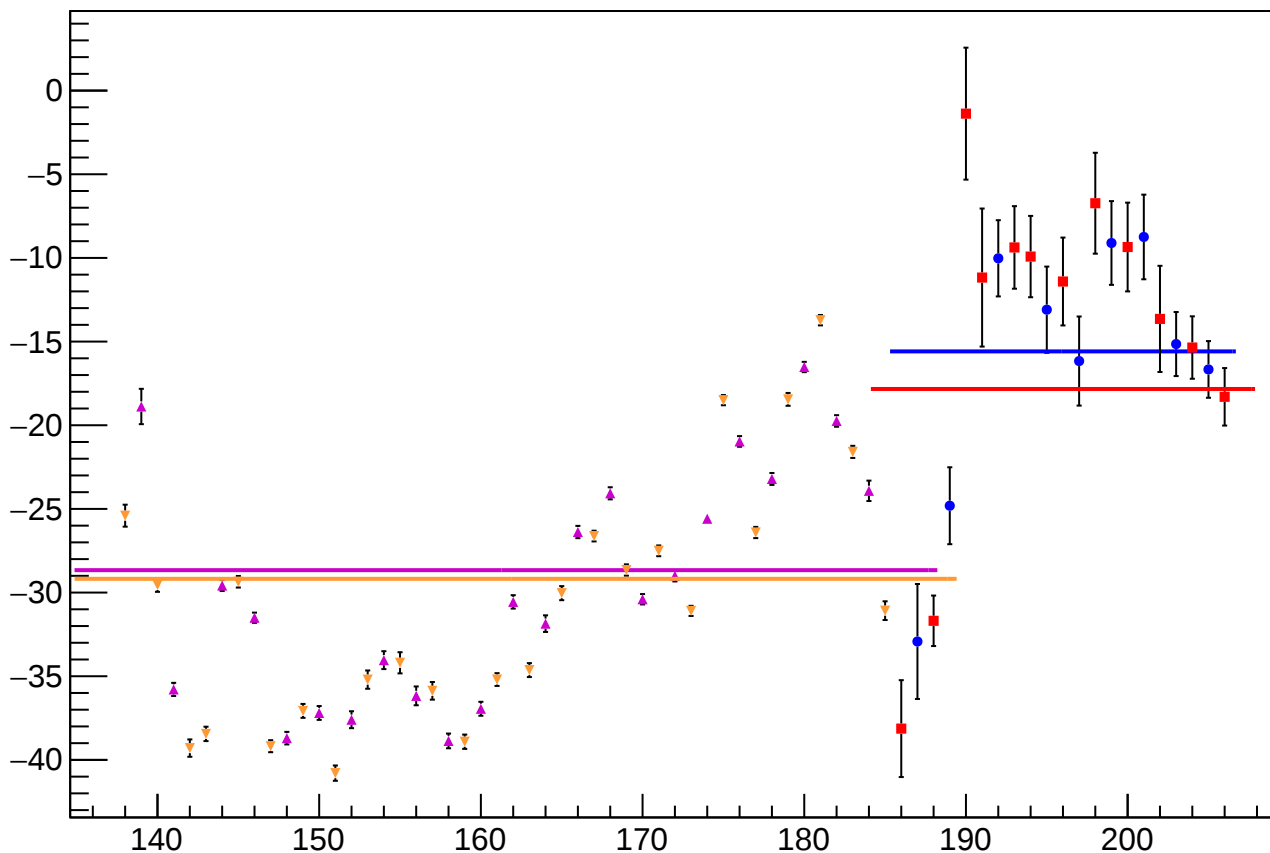
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 44.113 $\pm$ 0.461 χ^2 /NDF: 323.1/8
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 47.823 $\pm$ 0.372 χ^2 /NDF: 643.1/11
 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: 46.359 $\pm$ 0.290 χ^2 /NDF: 1005.4/20
 In: 29.224 $\pm$ 0.088 χ^2 /NDF:18253.1/31
 Out: 30.154 $\pm$ 0.085 χ^2 /NDF:21996.5/36
 All: 29.700 $\pm$ 0.061 χ^2 /NDF: 40307.4/68

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -15.587 ± 0.768 χ^2/NDF : 63.0/8

Left Out: -29.178 ± 0.078 χ^2/NDF : 9081.4/24

Right Out: -17.832 ± 0.684 χ^2/NDF : 209.2/11

Left In: -28.660 ± 0.080 χ^2/NDF : 6670.1/22

Left: -28.924 ± 0.056 χ^2/NDF : 15773.0/47

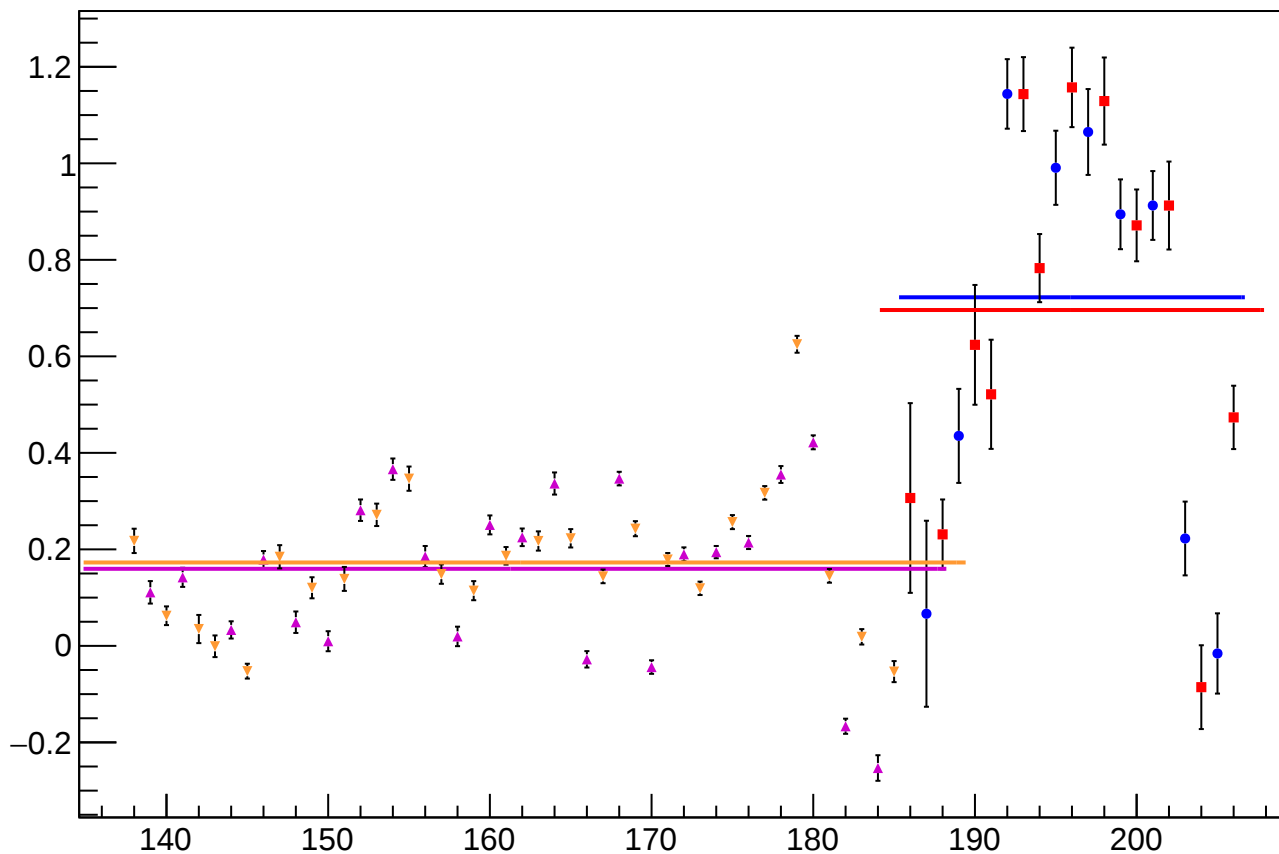
Right: -16.839 ± 0.511 χ^2/NDF : 276.9/20

In: -28.521 ± 0.079 χ^2/NDF : 7019.9/31

Out: -29.032 ± 0.078 χ^2/NDF : 9562.2/36

All: -28.782 ± 0.056 χ^2/NDF : 16603.3/68

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.722 ± 0.027 χ^2/NDF : 215.9/8

Left Out: 0.173 ± 0.004 χ^2/NDF : 1478.5/24

Right Out: 0.696 ± 0.024 χ^2/NDF : 241.7/11

Left In: 0.160 ± 0.004 χ^2/NDF : 2057.9/22

Left: 0.166 ± 0.003 χ^2/NDF : 3542.9/47

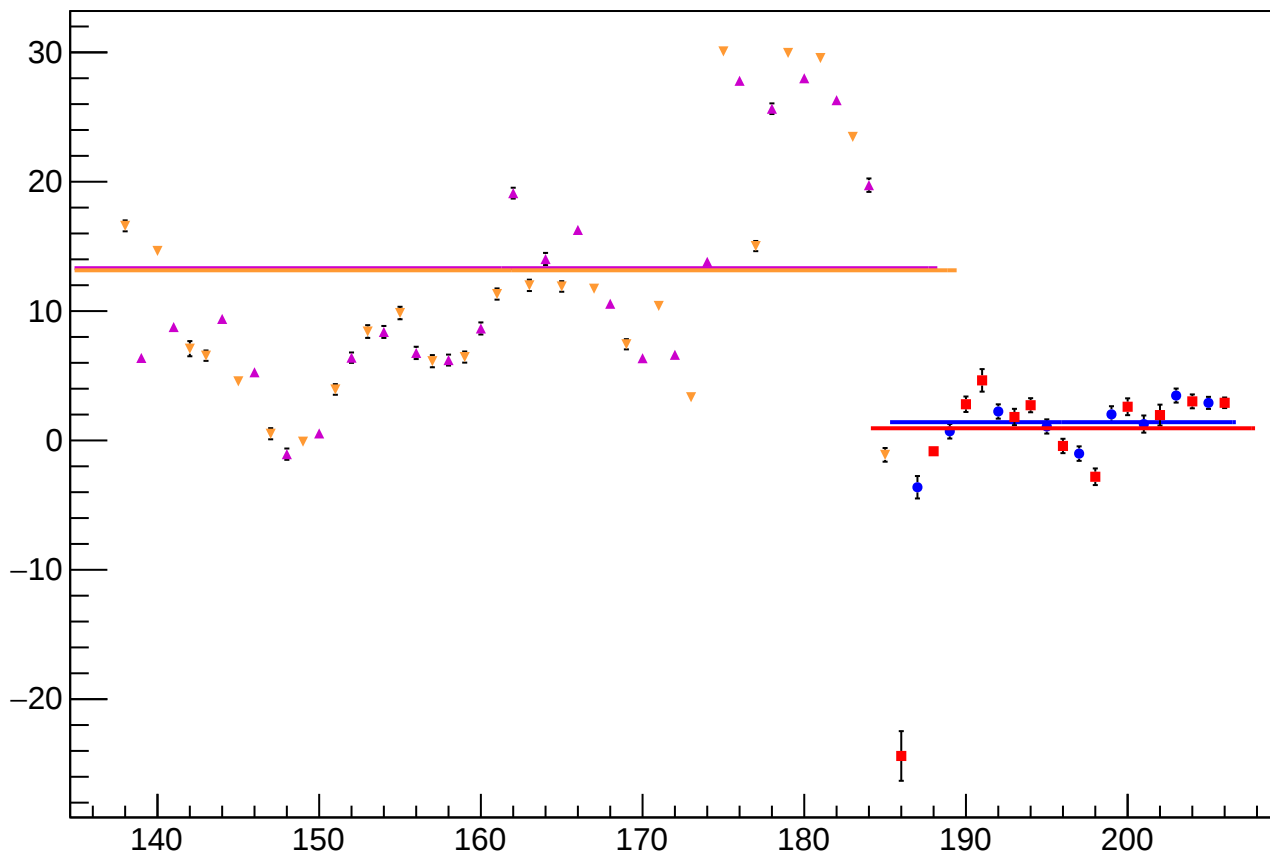
Right: 0.708 ± 0.018 χ^2/NDF : 458.0/20

In: 0.169 ± 0.004 χ^2/NDF : 2685.8/31

Out: 0.184 ± 0.004 χ^2/NDF : 2166.8/36

All: 0.177 ± 0.003 χ^2/NDF : 4860.5/68

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.412 $\pm$ 0.192 χ^2 /NDF: 82.1/8

Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24

Right Out: 0.941 $\pm$ 0.155 χ^2 /NDF: 340.7/11

Left In: 13.315 $\pm$ 0.077 χ^2 /NDF:13977.7/22

Left: 13.232 $\pm$ 0.054 χ^2 /NDF: 31059.6/47

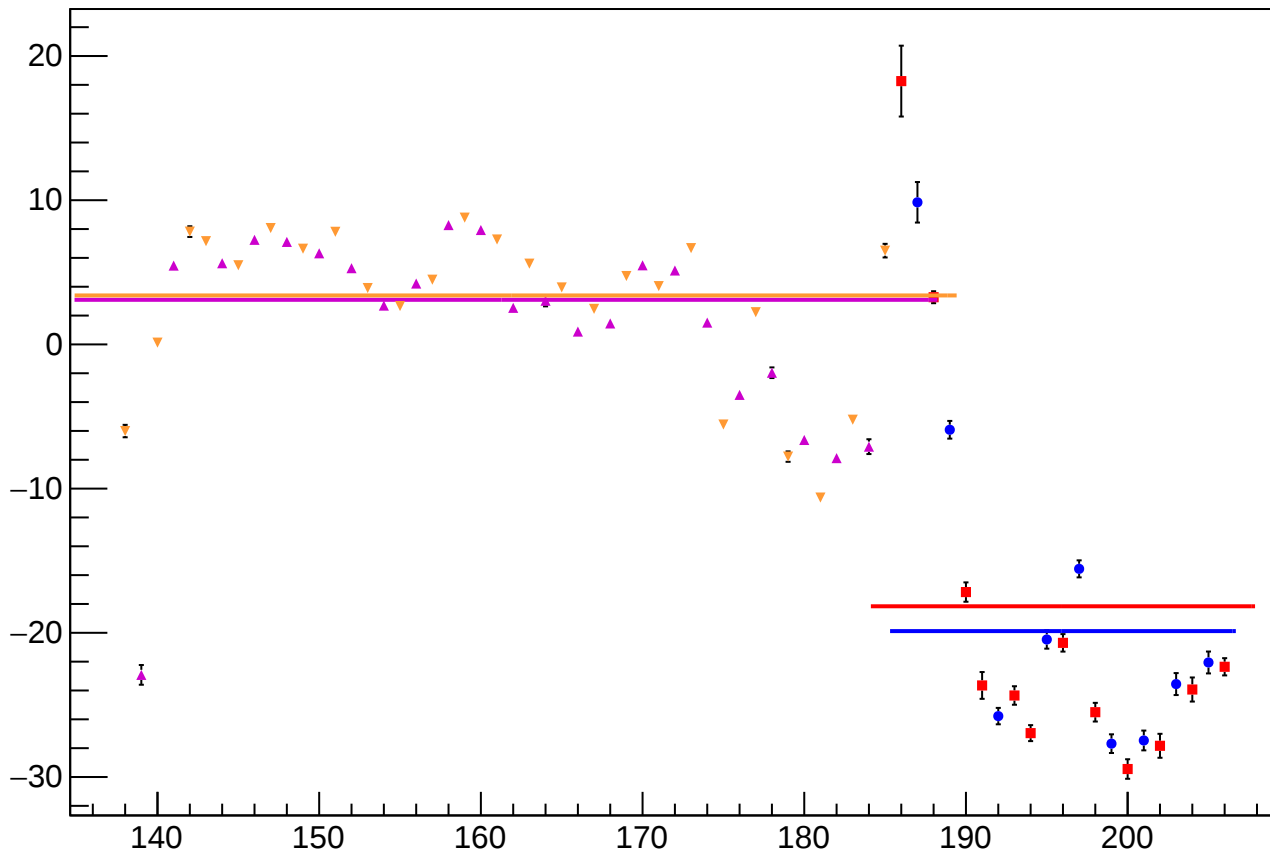
Right: 1.126 $\pm$ 0.121 χ^2 /NDF: 426.4/20

In: 11.668 $\pm$ 0.072 χ^2 /NDF:17356.6/31

Out: 10.815 $\pm$ 0.068 χ^2 /NDF:22467.3/36

All: 11.217 $\pm$ 0.049 χ^2 /NDF: 39899.0/68

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -19.881 $\pm$ 0.226 χ^2 /NDF: 1425.1/8

Left Out: 3.396 $\pm$ 0.058 χ^2 /NDF: 8101.5/24

Right Out: -18.161 $\pm$ 0.189 χ^2 /NDF: 3932.4/11

Left In: 3.092 $\pm$ 0.061 χ^2 /NDF: 7104.4/22

Left: 3.250 $\pm$ 0.042 χ^2 /NDF: 15218.9/47

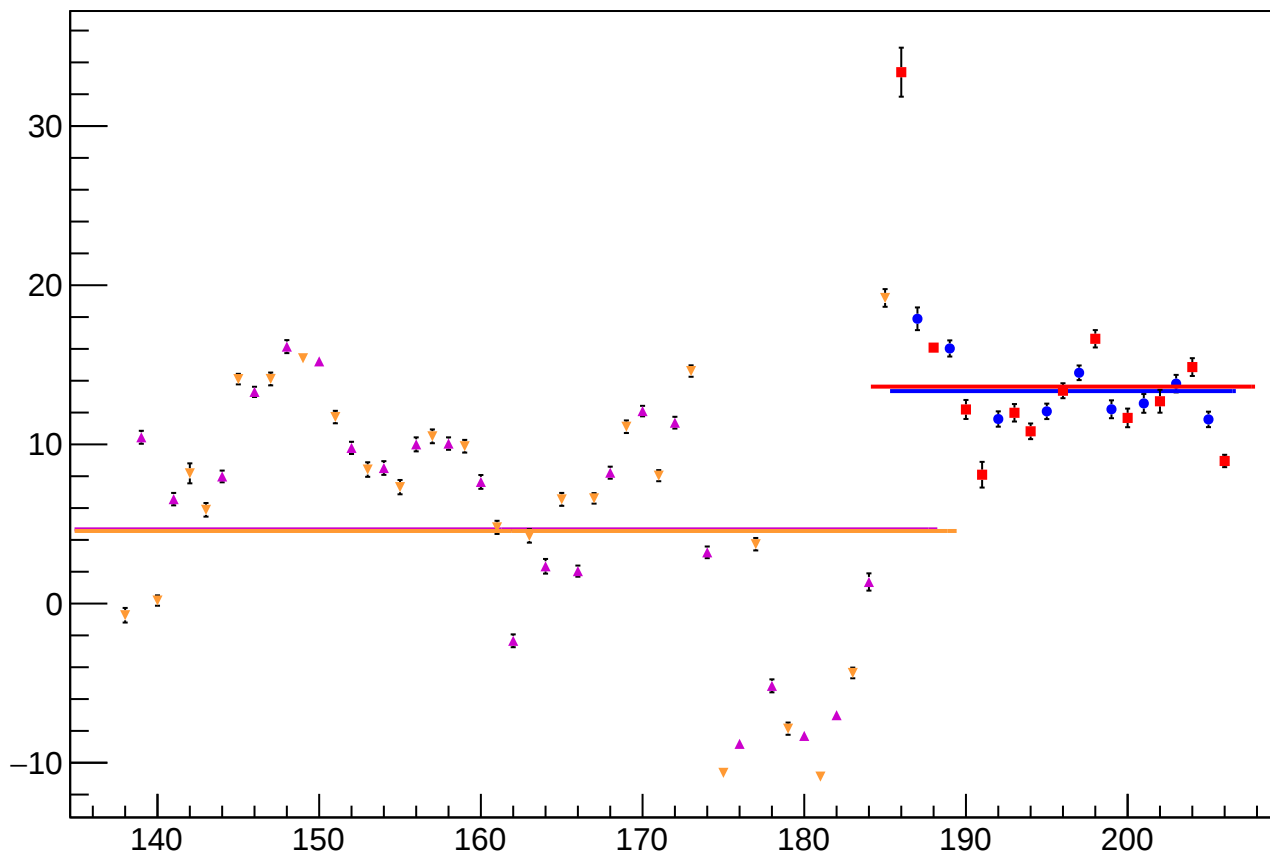
Right: -18.868 $\pm$ 0.145 χ^2 /NDF: 5391.6/20

In: 1.554 $\pm$ 0.059 χ^2 /NDF: 18159.5/31

Out: 1.517 $\pm$ 0.056 χ^2 /NDF: 23916.7/36

All: 1.535 $\pm$ 0.040 χ^2 /NDF: 42076.4/68

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.348+/-0.175 χ^2/NDF : 114.8/8

Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24

Right Out: 13.630+/-0.136 χ^2/NDF : 566.7/11

Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

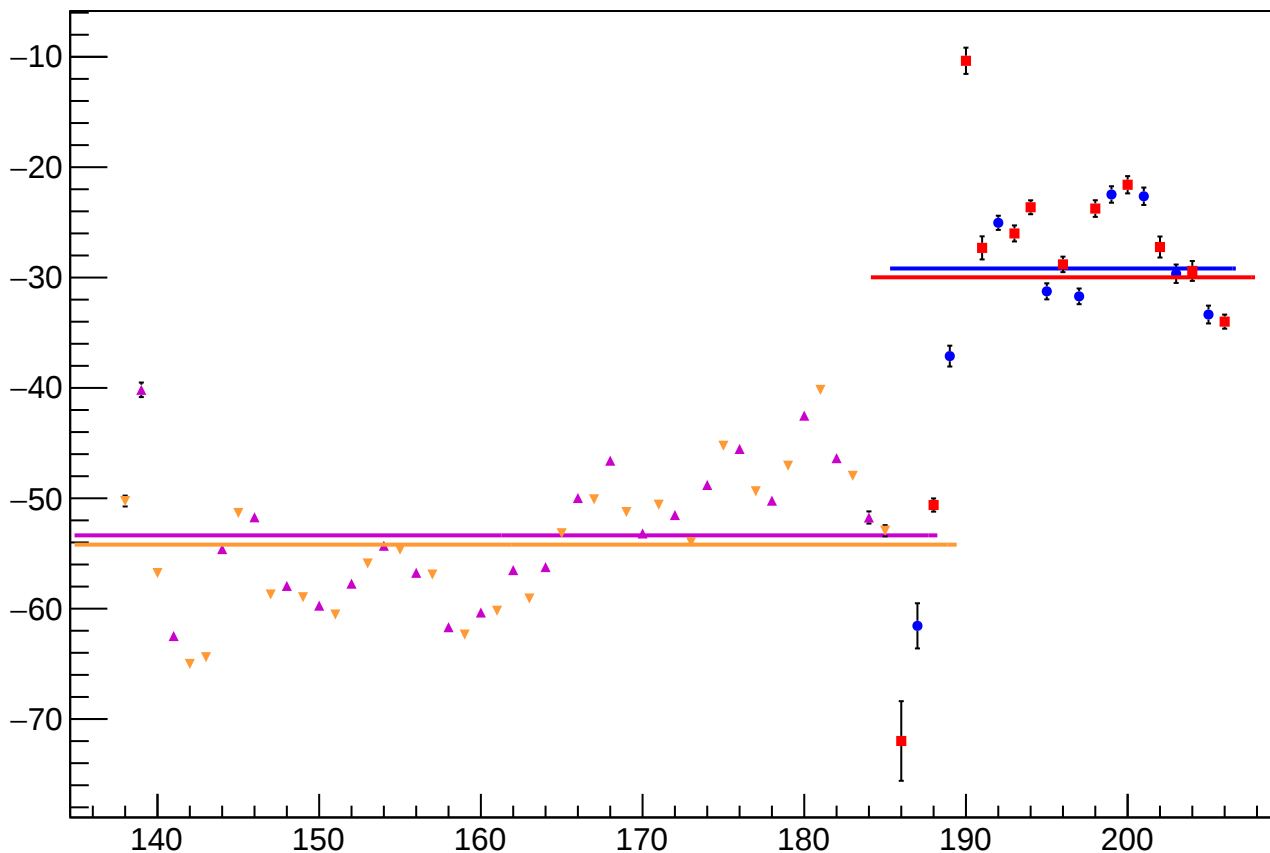
Right: 13.524+/-0.107 χ^2/NDF : 683.1/20

In: 6.068+/-0.070 χ^2/NDF :13466.4/31

Out: 6.688+/-0.066 χ^2/NDF :17552.9/36

All: 6.398+/-0.048 χ^2/NDF : 31060.6/68

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -29.178 ± 0.267 $\chi^2/\text{NDF}: 559.8/8$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -29.978 ± 0.229 $\chi^2/\text{NDF}: 1966.7/11$
 Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

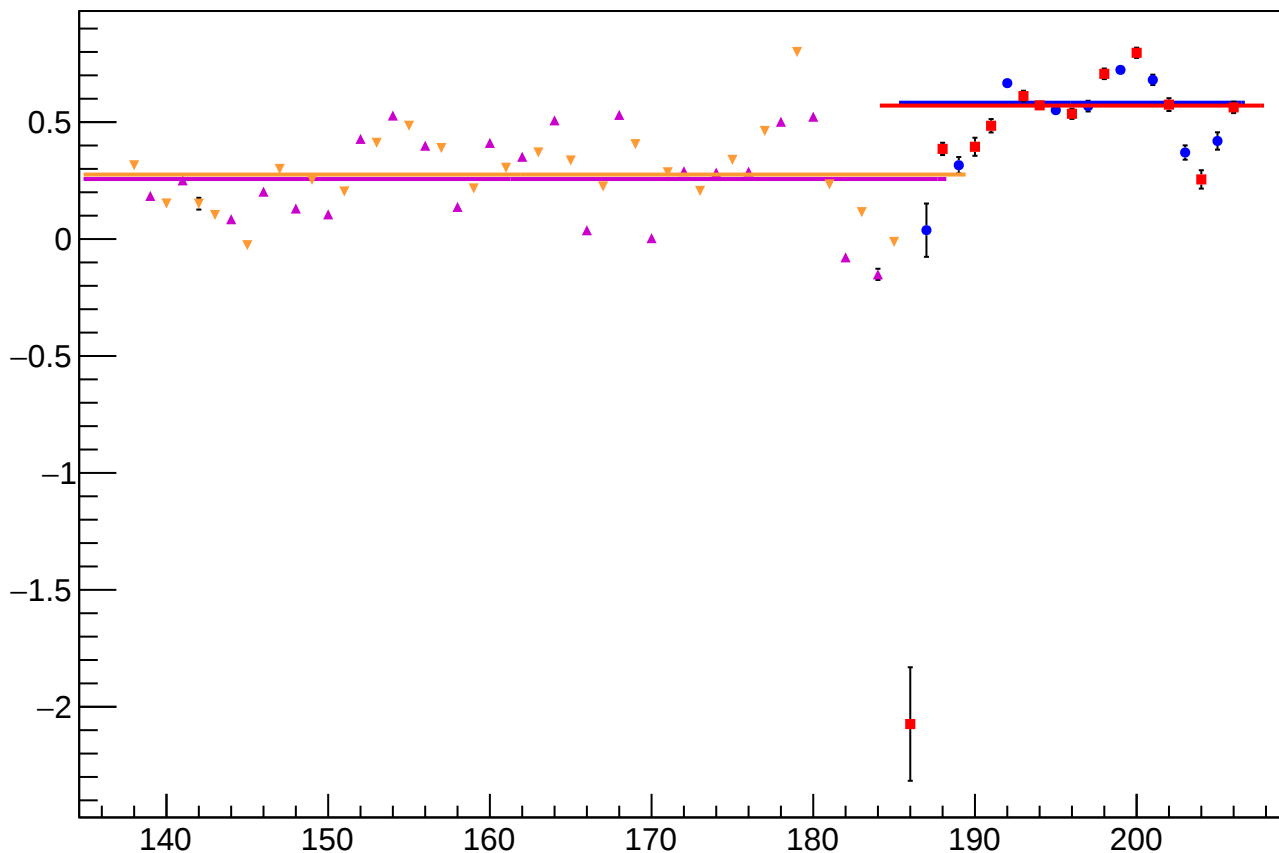
Right: -29.640 ± 0.174 $\chi^2/\text{NDF}: 2531.7/20$

In: -51.867 ± 0.066 $\chi^2/\text{NDF}: 15134.0/31$

Out: -52.317 ± 0.064 $\chi^2/\text{NDF}: 20760.1/36$

All: -52.101 ± 0.046 $\chi^2/\text{NDF}: 35918.2/68$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.583 ± 0.009 χ^2/NDF : 230.2/8

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.571 ± 0.007 χ^2/NDF : 410.5/11

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

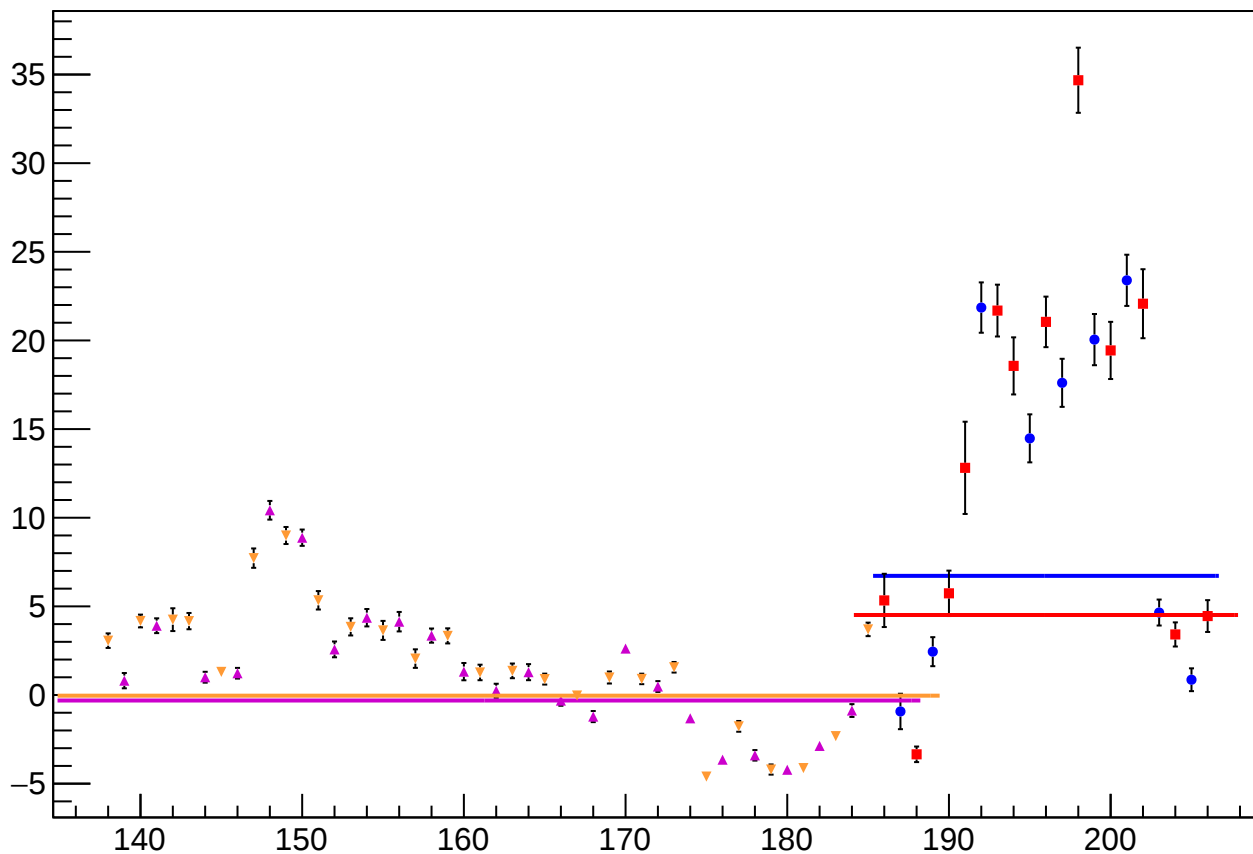
Right: 0.576 ± 0.006 χ^2/NDF : 641.8/20

In: 0.294 ± 0.003 χ^2/NDF : 5114.2/31

Out: 0.318 ± 0.003 χ^2/NDF : 4377.0/36

All: 0.307 ± 0.002 χ^2/NDF : 9527.4/68

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.721 ± 0.328 $\chi^2/\text{NDF}: 606.0/8$

Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$

Right Out: 4.514 ± 0.288 $\chi^2/\text{NDF}: 1119.8/11$

Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$

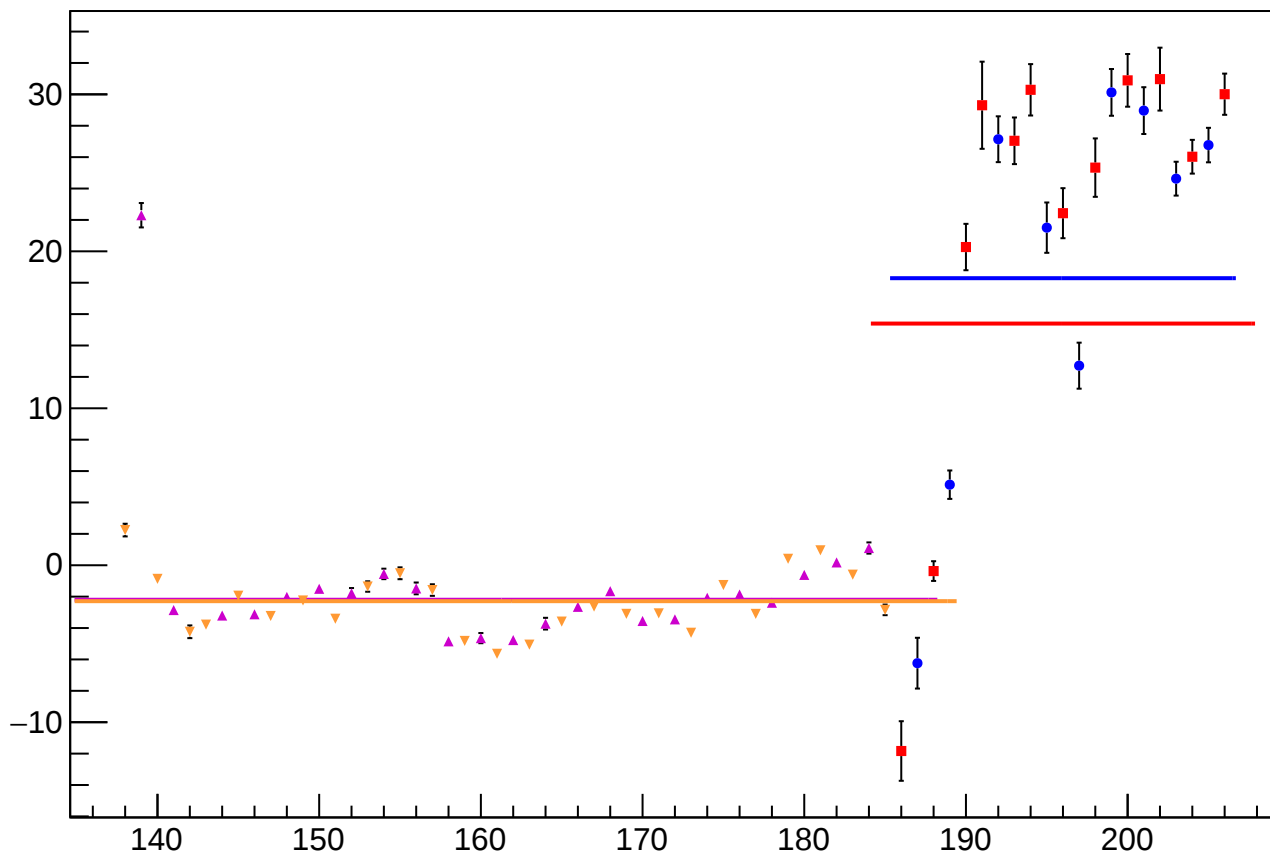
Right: 5.475 ± 0.216 $\chi^2/\text{NDF}: 1751.4/20$

In: -0.025 ± 0.066 $\chi^2/\text{NDF}: 3298.3/31$

Out: 0.190 ± 0.064 $\chi^2/\text{NDF}: 3995.1/36$

All: 0.085 ± 0.046 $\chi^2/\text{NDF}: 7298.9/68$

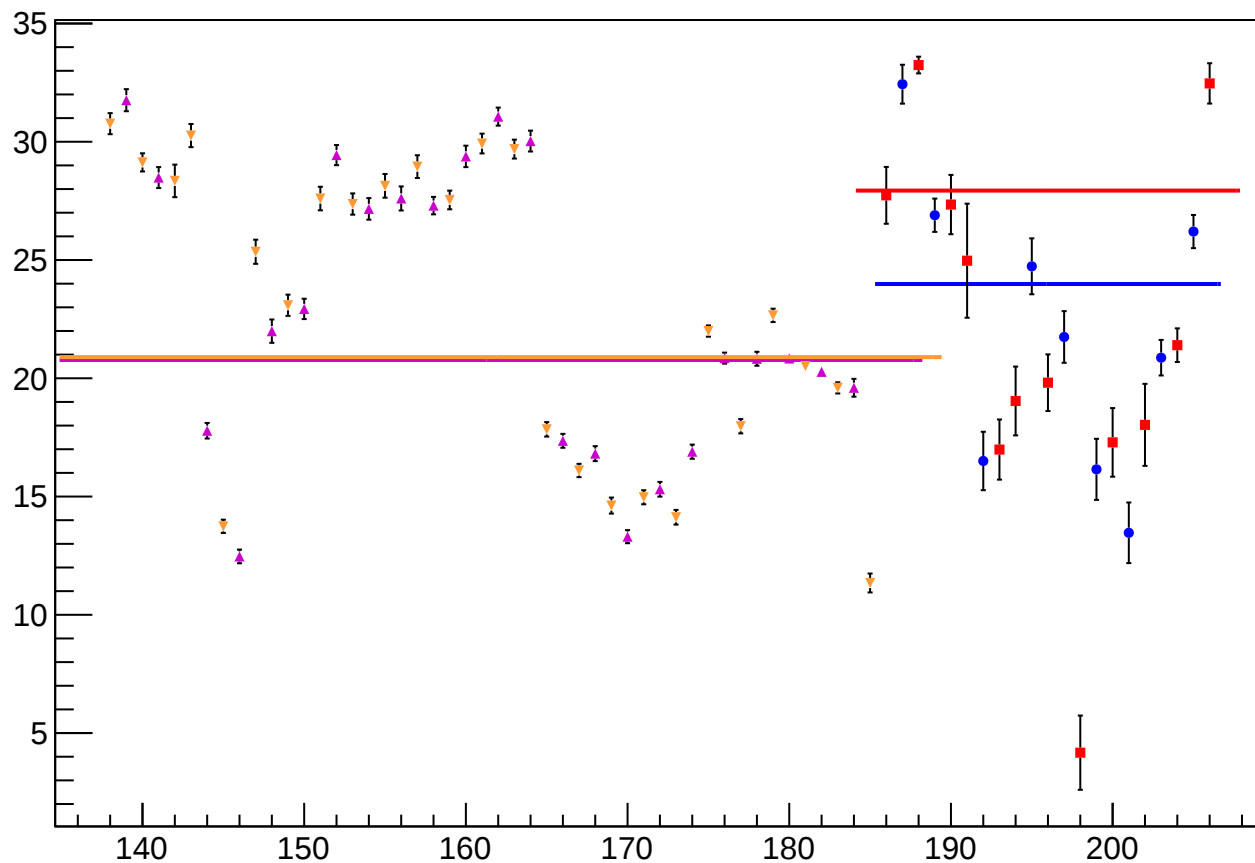
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 18.288 ± 0.426 $\chi^2/\text{NDF}: 704.8/8$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: 15.397 ± 0.379 $\chi^2/\text{NDF}: 1432.1/11$
 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: 16.675 ± 0.283 $\chi^2/\text{NDF}: 2162.6/20$
 In: -1.861 ± 0.055 $\chi^2/\text{NDF}: 4654.9/31$
 Out: -1.934 ± 0.054 $\chi^2/\text{NDF}: 4703.5/36$
 All: -1.898 ± 0.038 $\chi^2/\text{NDF}: 9359.3/68$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 23.986 $\pm$ 0.306 χ^2 /NDF: 295.3/8

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24

Right Out: 27.936 $\pm$ 0.251 χ^2 /NDF: 812.8/11

Left In: 20.774 $\pm$ 0.068 χ^2 /NDF:5927.9/22

Left: 20.835 $\pm$ 0.047 χ^2 /NDF: 12584.8/47

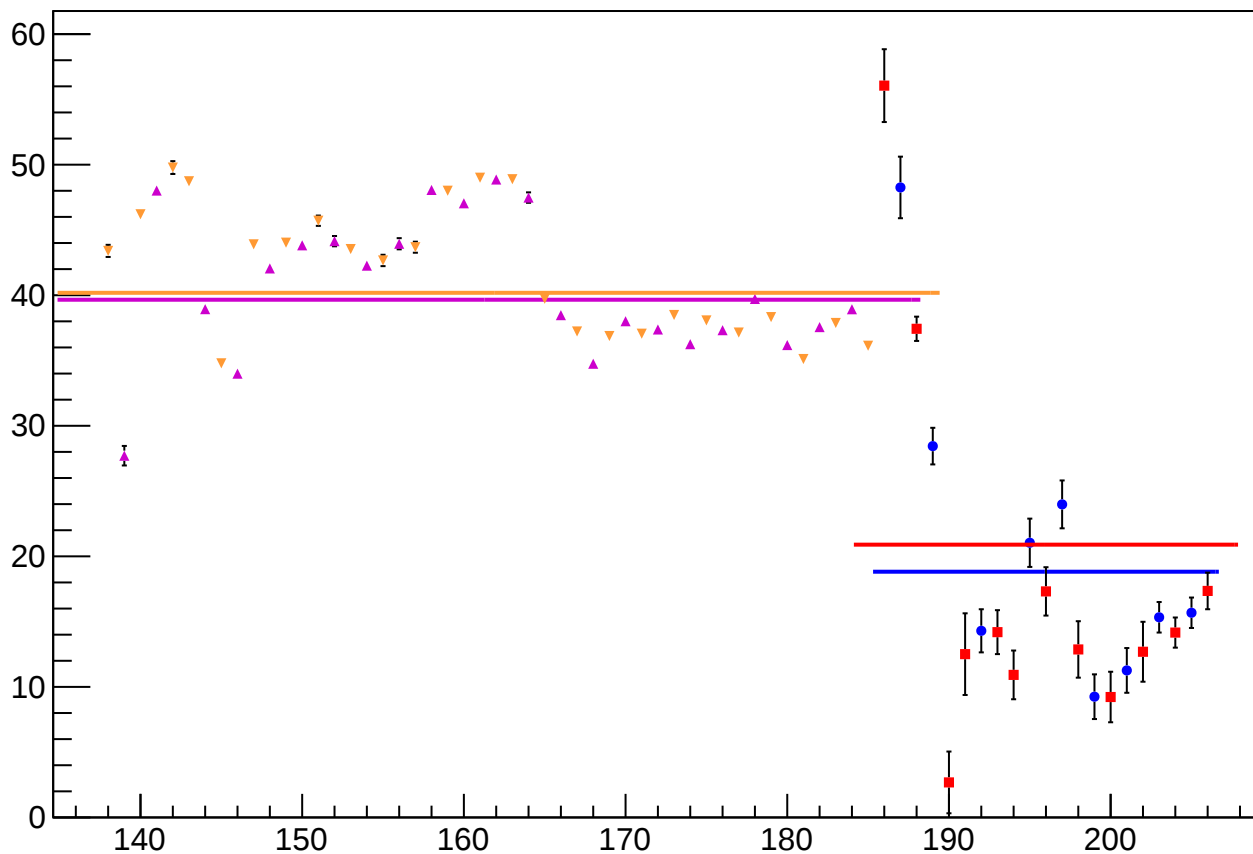
Right: 26.342 $\pm$ 0.194 χ^2 /NDF: 1207.8/20

In: 20.924 $\pm$ 0.066 χ^2 /NDF:6328.5/31

Out: 21.358 $\pm$ 0.064 χ^2 /NDF:8201.9/36

All: 21.146 $\pm$ 0.046 χ^2 /NDF: 14552.5/68

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 18.823+/-0.513 χ^2/NDF : 286.7/8

Left Out: 40.186+/-0.060 χ^2/NDF : 5932.7/24

Right Out: 20.895+/-0.475 χ^2/NDF : 693.0/11

Left In: 39.655+/-0.061 χ^2/NDF : 5298.6/22

Left: 39.925+/-0.043 χ^2/NDF : 11269.2/47

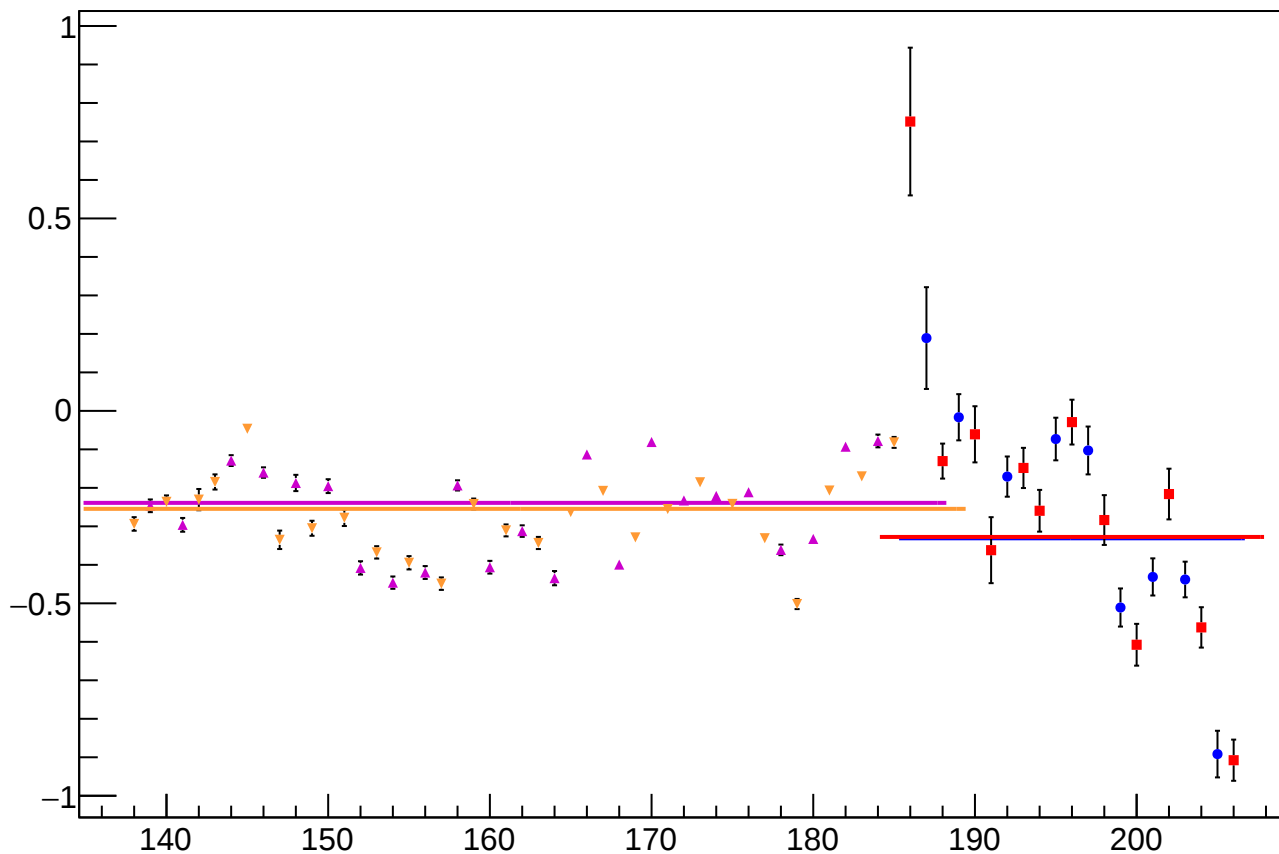
Right: 19.939+/-0.349 χ^2/NDF : 988.4/20

In: 39.361+/-0.061 χ^2/NDF : 7208.5/31

Out: 39.880+/-0.060 χ^2/NDF : 8246.9/36

All: 39.625+/-0.043 χ^2/NDF : 15492.1/68

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.331 ± 0.019 χ^2/NDF : 196.0/8

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.328 ± 0.017 χ^2/NDF : 271.1/11

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

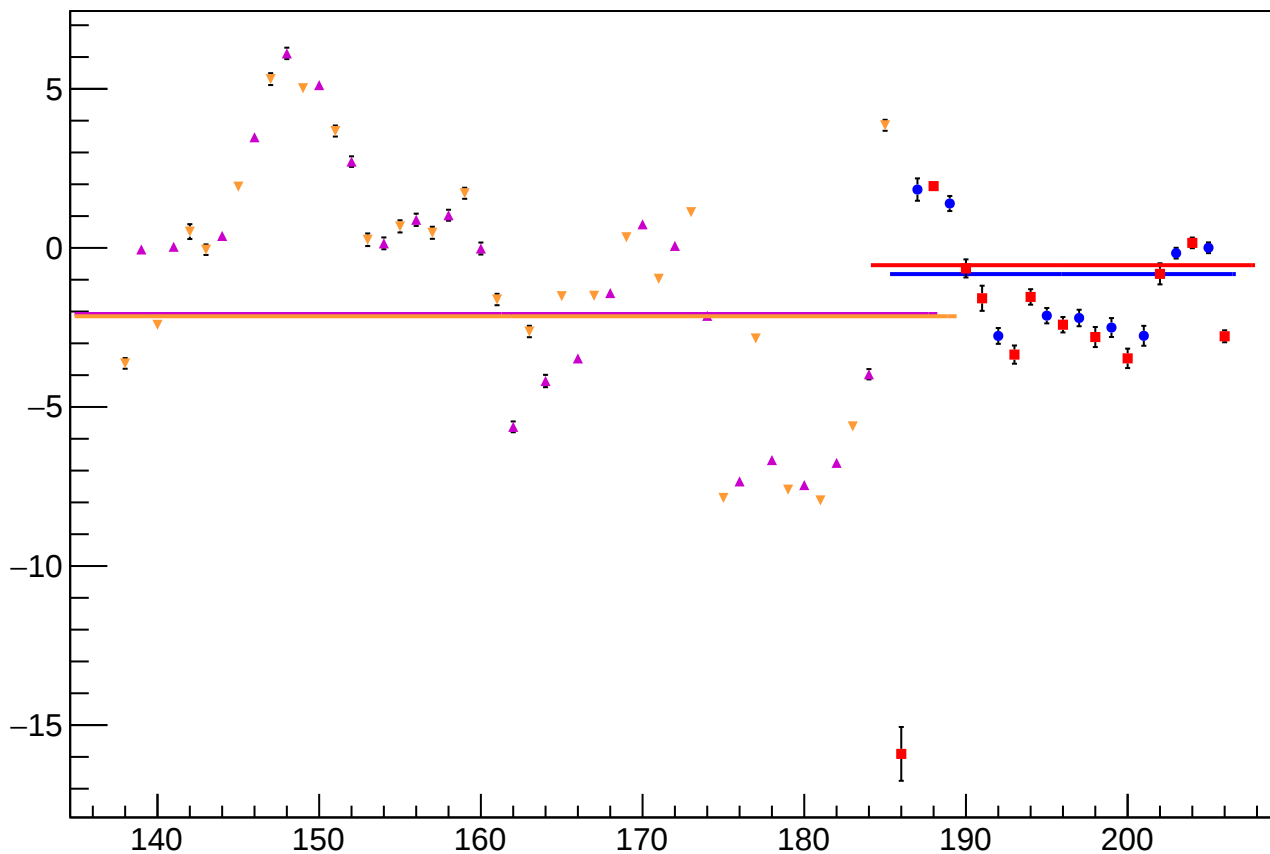
Right: -0.329 ± 0.013 χ^2/NDF : 467.1/20

In: -0.241 ± 0.003 χ^2/NDF : 1970.2/31

Out: -0.256 ± 0.003 χ^2/NDF : 1709.0/36

All: -0.249 ± 0.002 χ^2/NDF : 3695.0/68

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

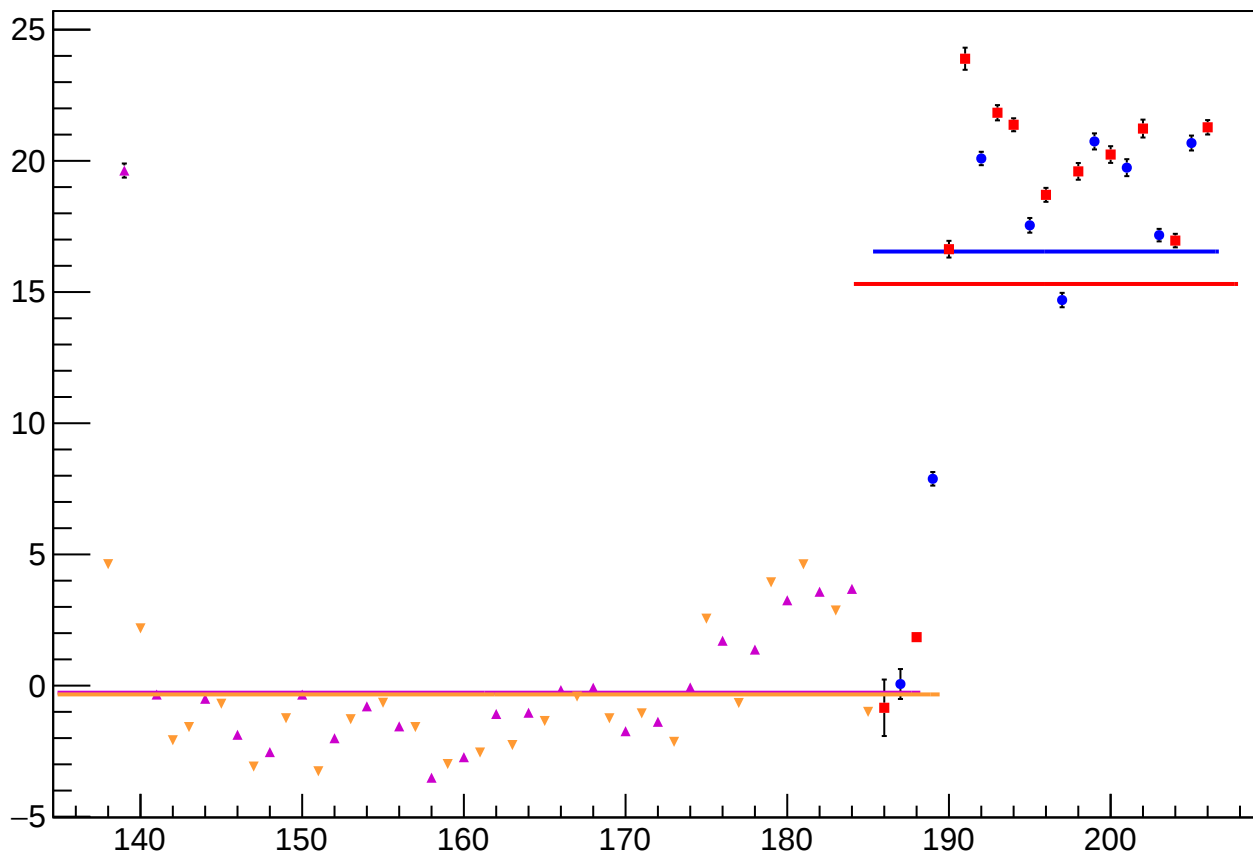


Right In: -0.823 ± 0.078 χ^2/NDF : 372.6/8
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.543 ± 0.064 χ^2/NDF : 1326.0/11
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.657 ± 0.049 χ^2/NDF : 1706.2/20
 In: -1.951 ± 0.025 χ^2/NDF : 23852.8/31
 Out: -1.928 ± 0.024 χ^2/NDF : 26402.4/36

All: -1.939 ± 0.017 χ^2/NDF : 50255.7/68

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.544+/-0.096 χ^2/NDF : 2704.9/8

Left Out: -0.335+/-0.021 χ^2/NDF :12596.1/24

Right Out: 15.308+/-0.081 χ^2/NDF : 10111.8/11

Left In: -0.269+/-0.021 χ^2/NDF :13323.1/22

Left: -0.303+/-0.015 χ^2/NDF : 25924.2/47

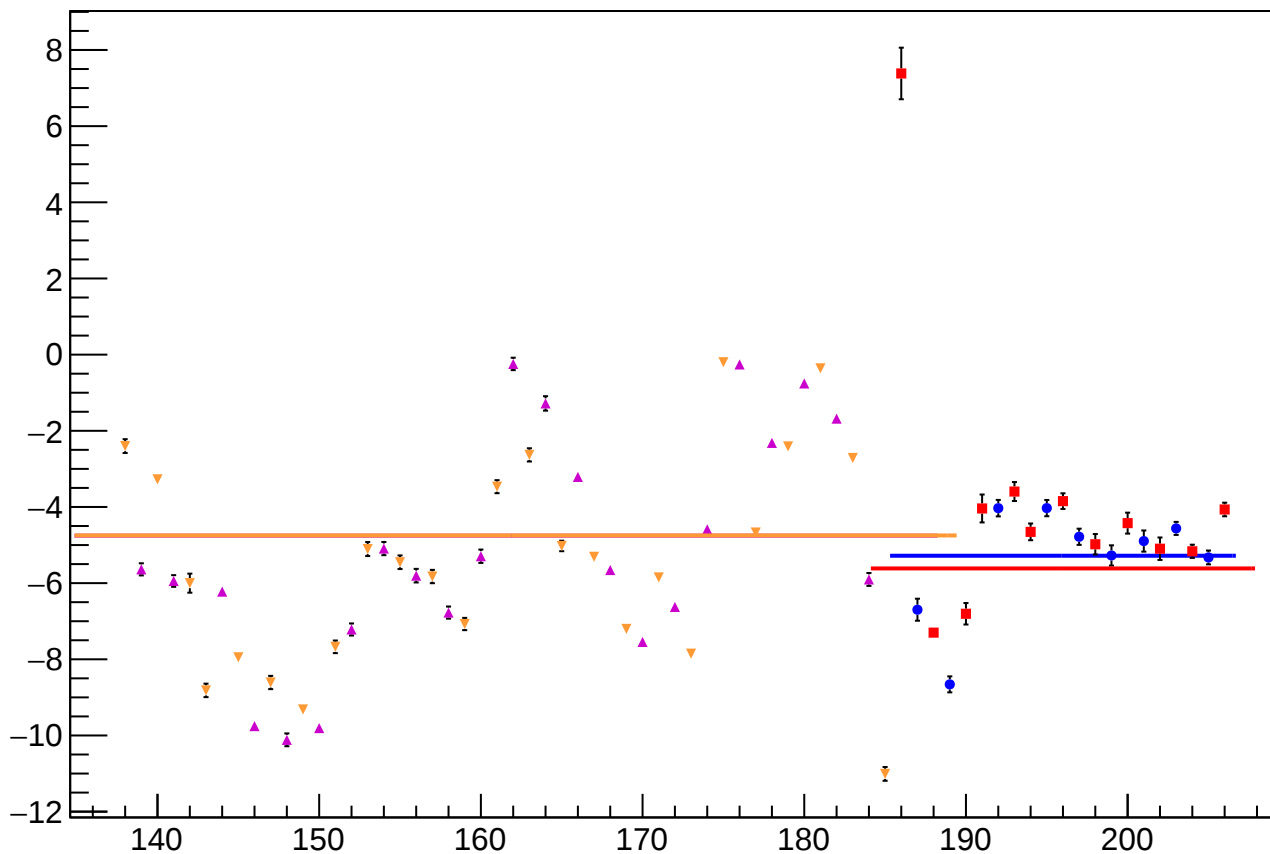
Right: 15.822+/-0.062 χ^2/NDF : 12914.4/20

In: 0.500+/-0.020 χ^2/NDF :45523.3/31

Out: 0.620+/-0.020 χ^2/NDF :57967.3/36

All: 0.562+/-0.014 χ^2/NDF : 103508.2/68

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.280 ± 0.072 χ^2/NDF : 374.7/8
 Left Out: -4.748 ± 0.026 χ^2/NDF : 13289.8/24
 Right Out: -5.614 ± 0.057 χ^2/NDF : 1032.1/11
 Left In: -4.753 ± 0.026 χ^2/NDF : 14119.2/22

Left: -4.751 ± 0.018 χ^2/NDF : 27409.0/47

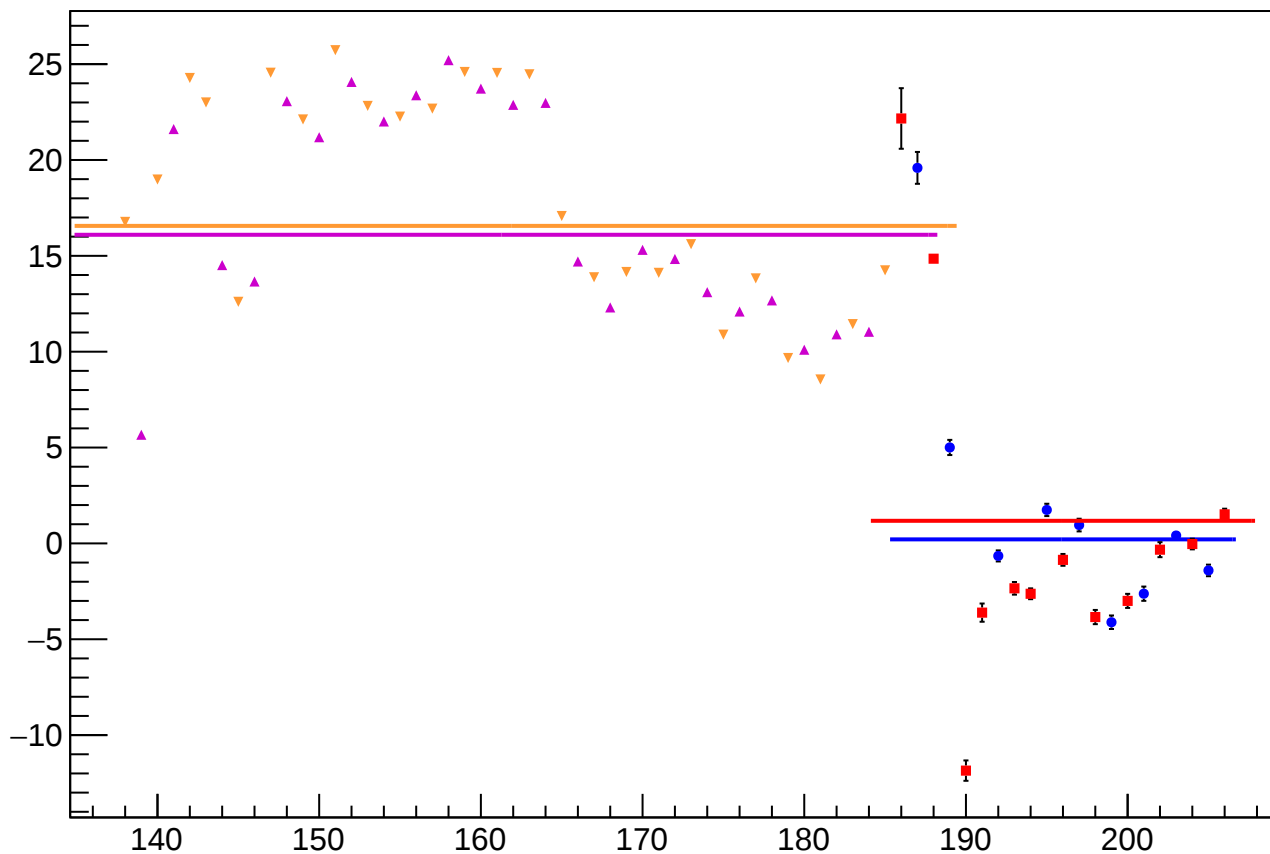
Right: -5.487 ± 0.045 χ^2/NDF : 1420.0/20

In: -4.814 ± 0.025 χ^2/NDF : 14541.0/31

Out: -4.897 ± 0.024 χ^2/NDF : 14515.7/36

All: -4.858 ± 0.017 χ^2/NDF : 29062.7/68

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.210 ± 0.112 $\chi^2/\text{NDF}: 964.9/8$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 1.179 ± 0.098 $\chi^2/\text{NDF}: 4983.0/11$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

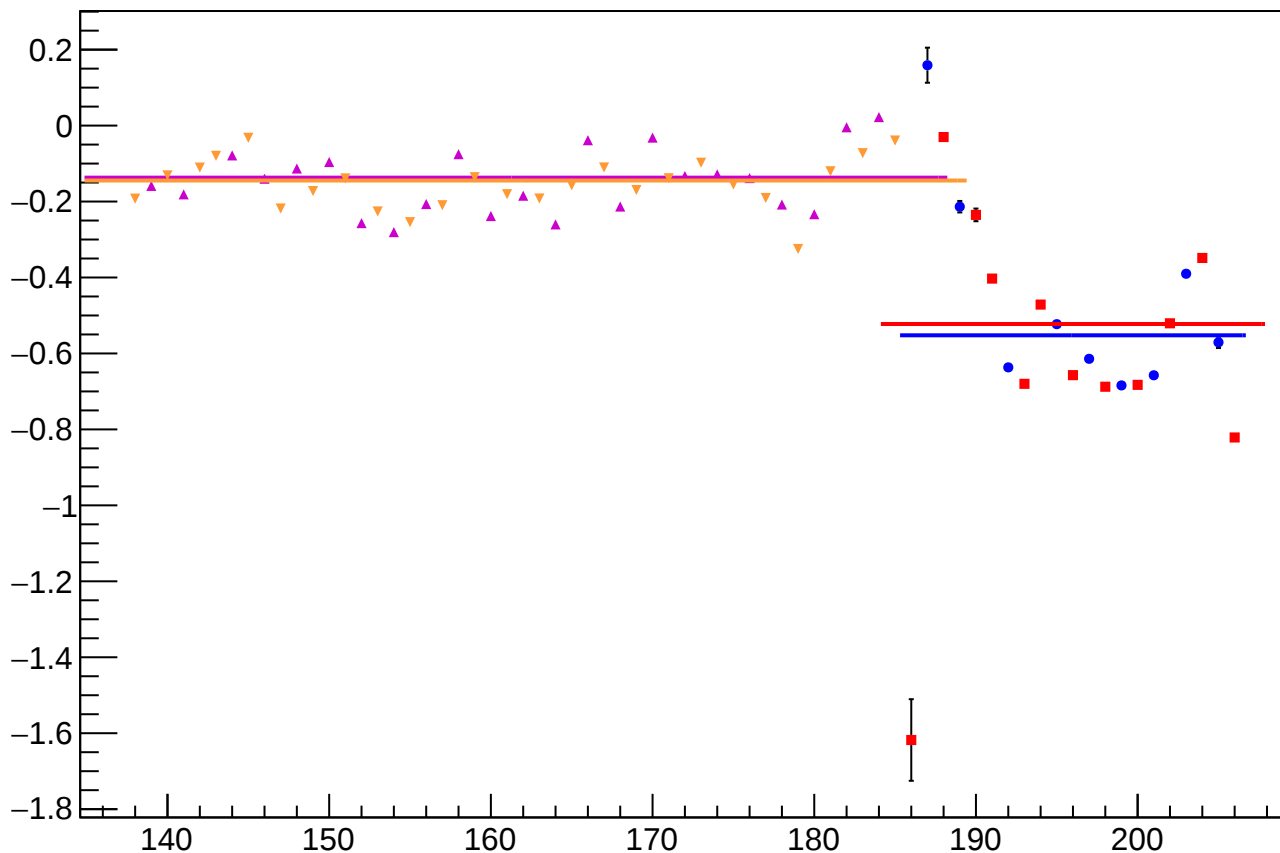
Right: 0.760 ± 0.074 $\chi^2/\text{NDF}: 5990.4/20$

In: 15.426 ± 0.023 $\chi^2/\text{NDF}: 62554.3/31$

Out: 15.746 ± 0.023 $\chi^2/\text{NDF}: 82294.2/36$

All: 15.590 ± 0.016 $\chi^2/\text{NDF}: 144947.0/68$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.552 ± 0.004 χ^2/NDF : 1418.8/8

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.522 ± 0.003 χ^2/NDF : 4572.4/11

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

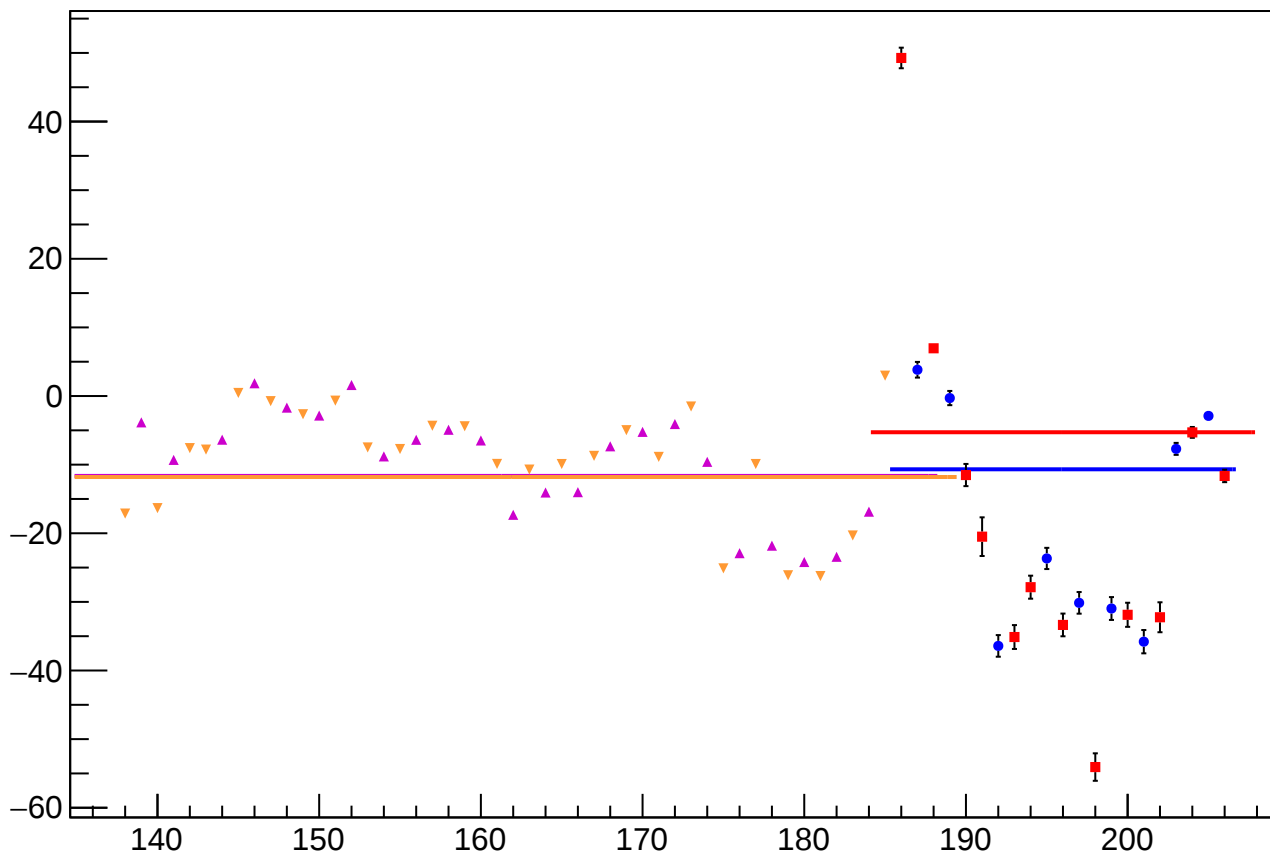
Right: -0.535 ± 0.002 χ^2/NDF : 6027.0/20

In: -0.168 ± 0.001 χ^2/NDF : 18065.1/31

Out: -0.180 ± 0.001 χ^2/NDF : 20525.6/36

All: -0.175 ± 0.001 χ^2/NDF : 38663.6/68

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.678 ± 0.382 χ^2/NDF : 1246.5/8
 Left Out: -11.801 ± 0.070 χ^2/NDF : 17308.2/24
 Right Out: -5.278 ± 0.332 χ^2/NDF : 3675.3/11
 Left In: -11.642 ± 0.072 χ^2/NDF : 14121.2/22

Left: -11.723 ± 0.050 χ^2/NDF : 31432.0/47

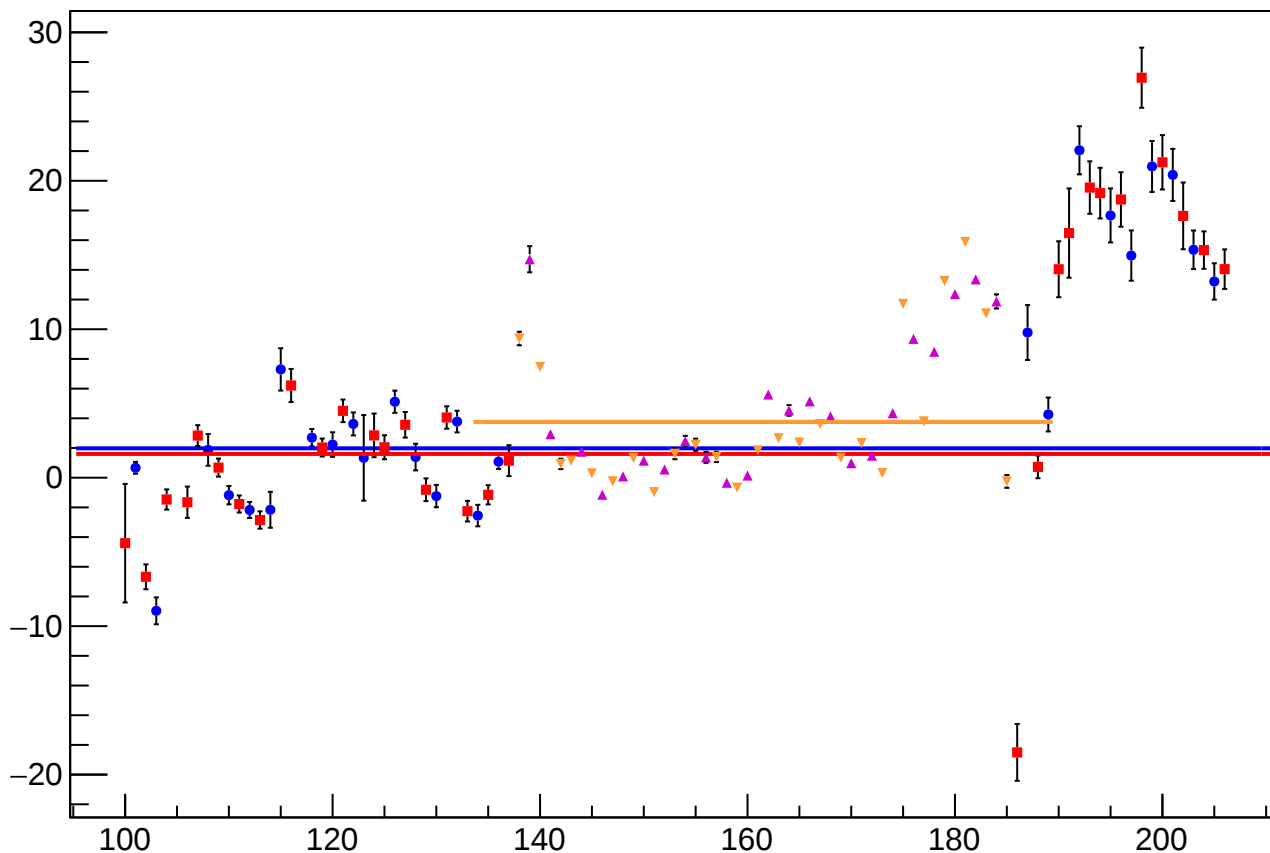
Right: -7.604 ± 0.250 χ^2/NDF : 5035.8/20

In: -11.609 ± 0.070 χ^2/NDF : 15373.9/31

Out: -11.521 ± 0.069 χ^2/NDF : 21353.1/36

All: -11.564 ± 0.049 χ^2/NDF : 36727.8/68

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.979 $\pm$ 0.161 χ^2 /NDF: 1089.4/25

Left Out: 3.757 $\pm$ 0.056 χ^2 /NDF: 7450.7/24

Right Out: 1.600 $\pm$ 0.162 χ^2 /NDF: 1340.7/30

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

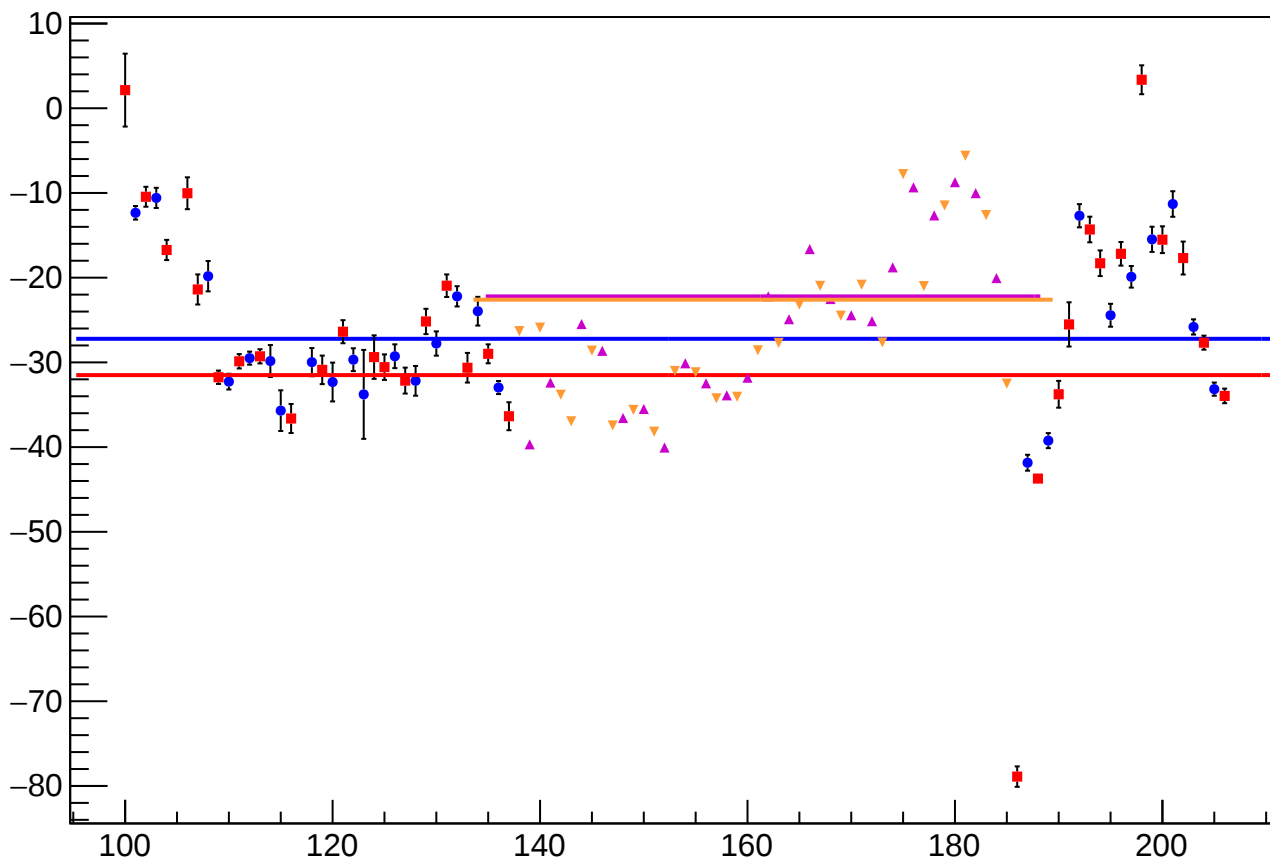
Right: 1.791 $\pm$ 0.114 χ^2 /NDF: 2432.8/56

In: 3.562 $\pm$ 0.053 χ^2 /NDF: 6826.9/48

Out: 3.531 $\pm$ 0.053 χ^2 /NDF: 8949.4/55

All: 3.546 $\pm$ 0.037 χ^2 /NDF: 15776.5/104

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -27.217 $\pm$ 0.230 χ^2 /NDF: 1517.2/25

Left Out: -22.598 $\pm$ 0.071 χ^2 /NDF:19933.4/24

Right Out: -31.500 $\pm$ 0.208 χ^2 /NDF: 4086.3/30

Left In: -22.209 $\pm$ 0.072 χ^2 /NDF:17627.4/22

Left: -22.406 $\pm$ 0.050 χ^2 /NDF: 37575.6/47

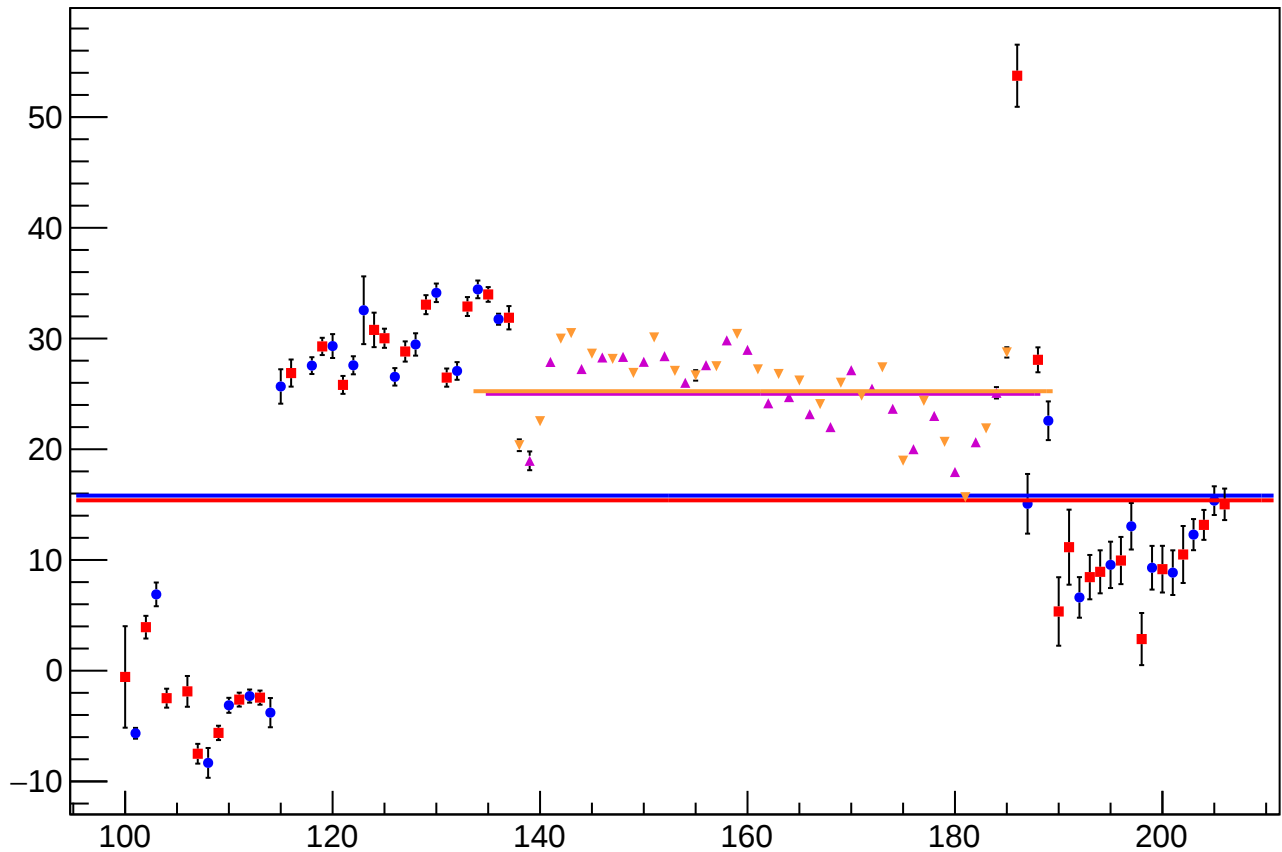
Right: -29.568 $\pm$ 0.154 χ^2 /NDF: 5794.0/56

In: -22.652 $\pm$ 0.068 χ^2 /NDF:19577.0/48

Out: -23.516 $\pm$ 0.067 χ^2 /NDF:25655.6/55

All: -23.093 $\pm$ 0.048 χ^2 /NDF: 45314.3/104

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.814 $\pm$ 0.183 χ^2 /NDF: 7624.6/25

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF: 3786.5/24

Right Out: 15.387 $\pm$ 0.185 χ^2 /NDF: 7660.8/30

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

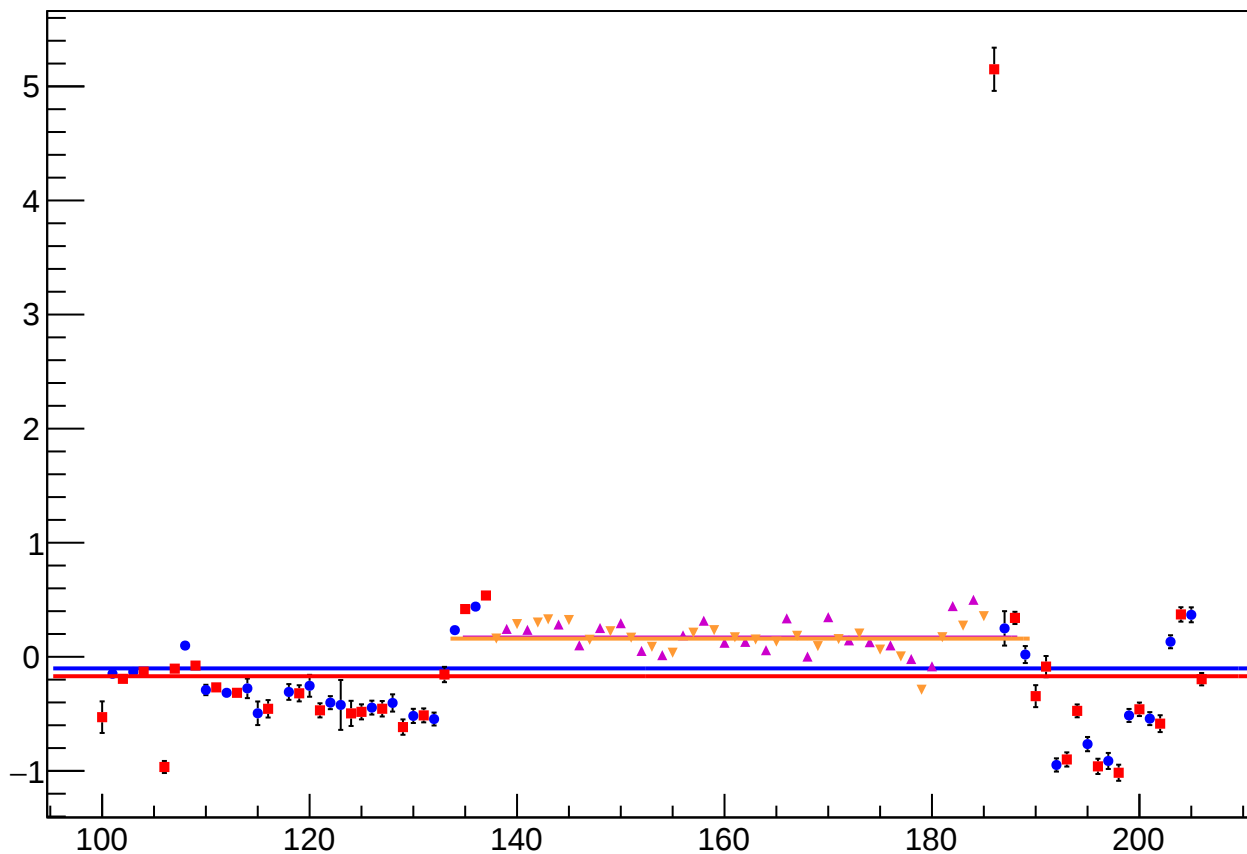
Right: 15.603 $\pm$ 0.130 χ^2 /NDF: 15288.2/56

In: 24.012 $\pm$ 0.060 χ^2 /NDF: 12595.4/48

Out: 24.232 $\pm$ 0.059 χ^2 /NDF: 13985.1/55

All: 24.124 $\pm$ 0.042 χ^2 /NDF: 26587.2/104

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.102 ± 0.009 χ^2/NDF : 1701.2/25

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.170 ± 0.009 χ^2/NDF : 2636.6/30

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

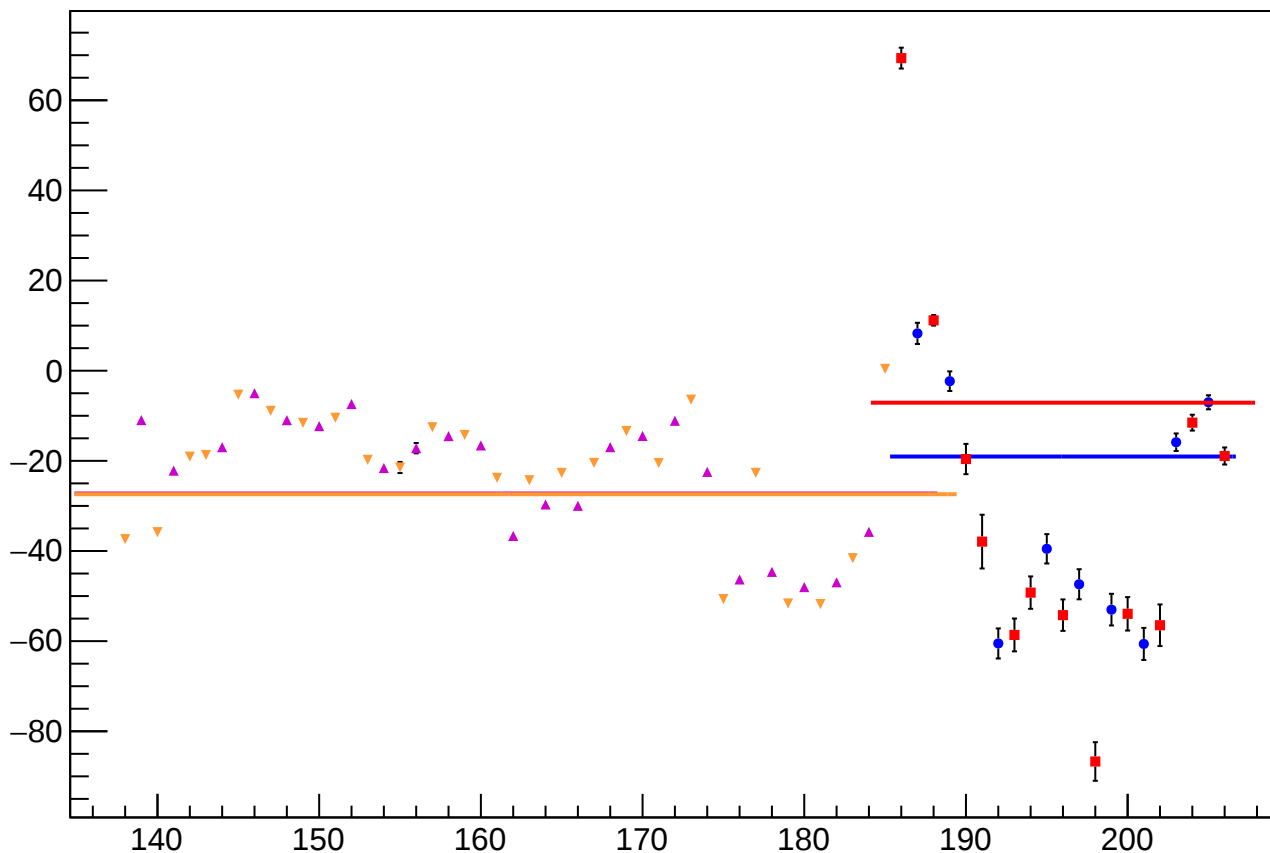
Right: -0.137 ± 0.007 χ^2/NDF : 4365.4/56

In: 0.145 ± 0.003 χ^2/NDF : 4886.2/48

Out: 0.130 ± 0.003 χ^2/NDF : 5681.4/55

All: 0.137 ± 0.002 χ^2/NDF : 10582.1/104

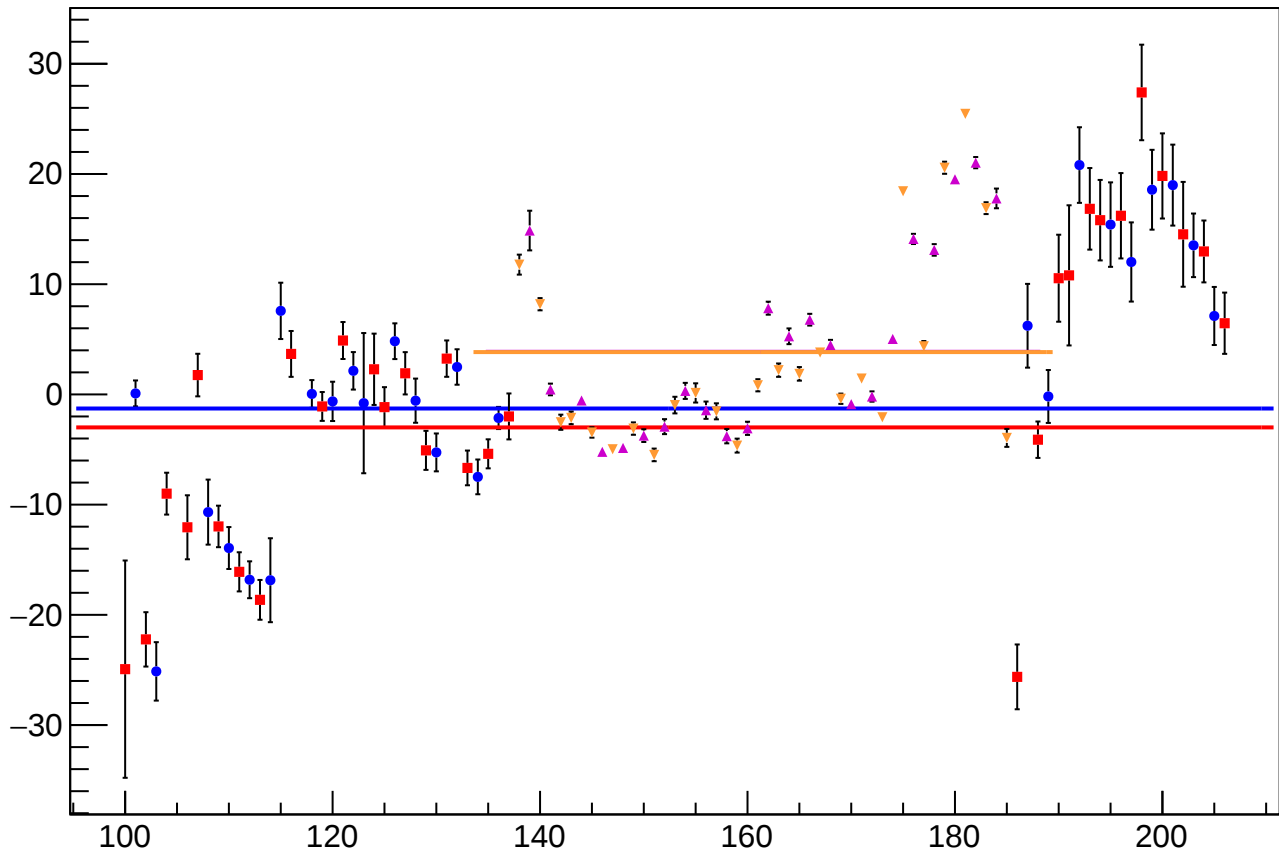
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.041 ± 0.816 $\chi^2/\text{NDF}: 752.4/8$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -7.094 ± 0.697 $\chi^2/\text{NDF}: 2561.2/11$
 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: -12.134 ± 0.530 $\chi^2/\text{NDF}: 3437.4/20$
 In: -27.011 ± 0.137 $\chi^2/\text{NDF}: 12155.6/31$
 Out: -26.655 ± 0.134 $\chi^2/\text{NDF}: 18228.6/36$
 All: -26.829 ± 0.096 $\chi^2/\text{NDF}: 30387.6/68$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.278 ± 0.384 $\chi^2/\text{NDF}: 473.7/25$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -2.993 ± 0.387 $\chi^2/\text{NDF}: 610.8/30$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

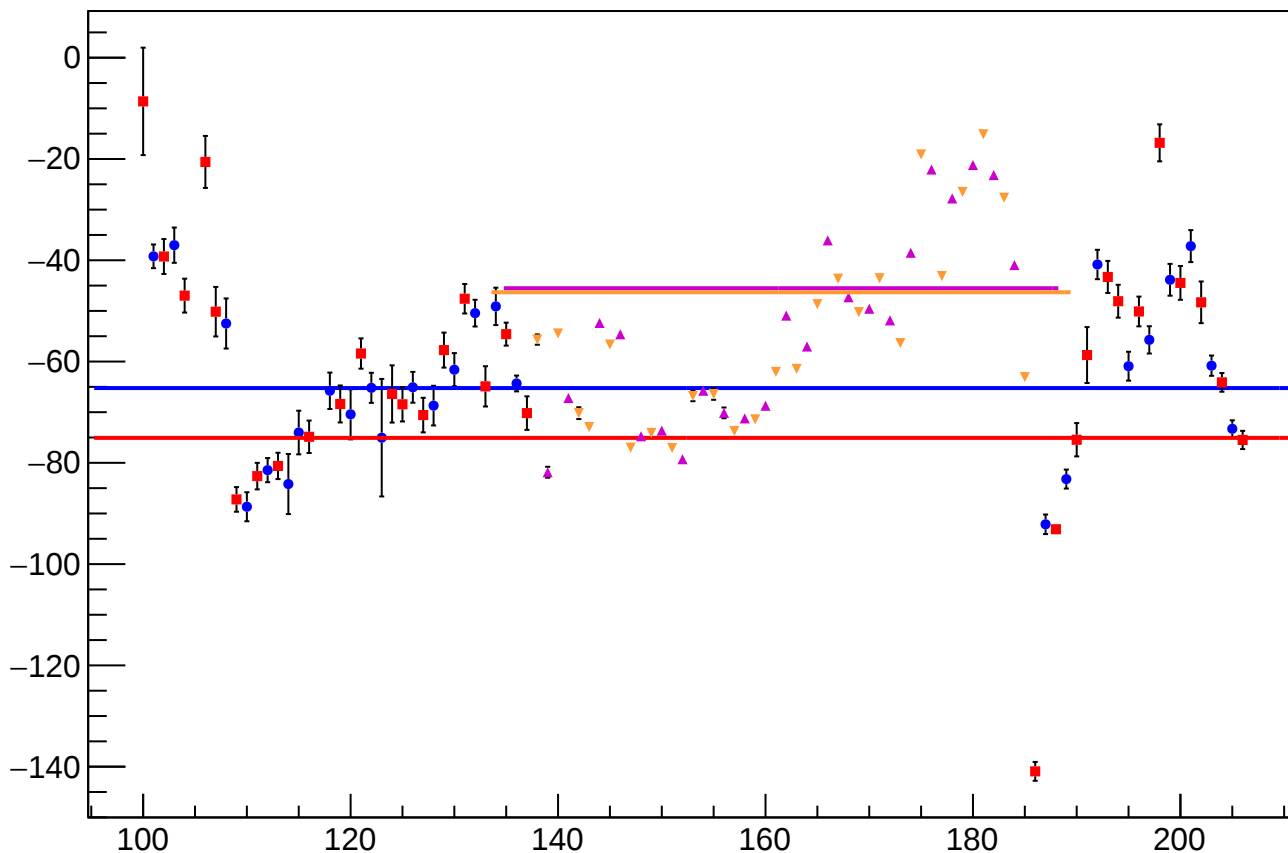
Right: -2.129 ± 0.272 $\chi^2/\text{NDF}: 1094.4/56$

In: 3.468 ± 0.107 $\chi^2/\text{NDF}: 6063.5/48$

Out: 3.336 ± 0.105 $\chi^2/\text{NDF}: 7839.3/55$

All: 3.401 ± 0.075 $\chi^2/\text{NDF}: 13903.5/104$

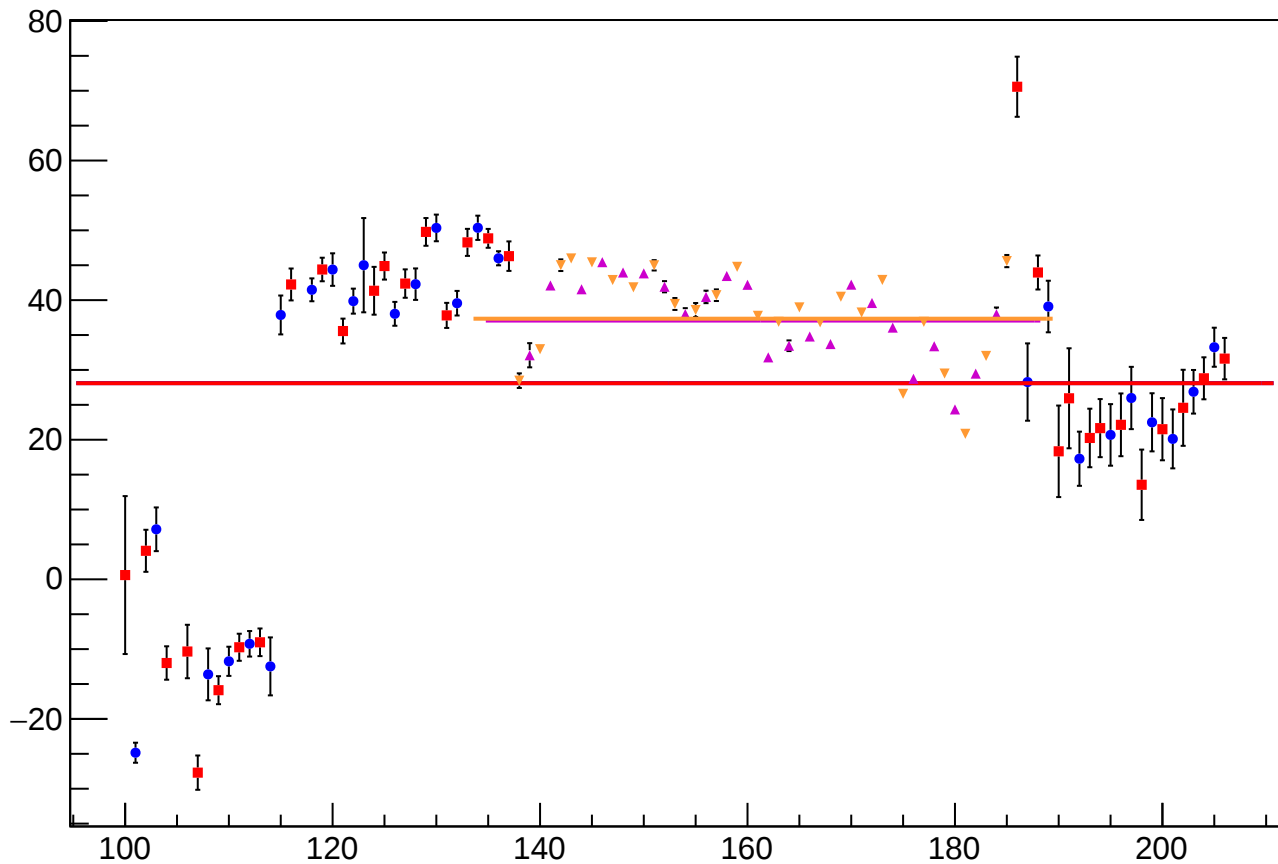
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.235 ± 0.530 χ^2/NDF : 903.0/25
 Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24
 Right Out: -75.073 ± 0.474 χ^2/NDF : 2928.4/30
 Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47
 Right: -70.704 ± 0.353 χ^2/NDF : 4022.9/56
 In: -46.803 ± 0.135 χ^2/NDF : 19721.1/48
 Out: -48.564 ± 0.132 χ^2/NDF : 26458.0/55
 All: -47.701 ± 0.095 χ^2/NDF : 46265.8/104

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.111 $\pm$ 0.433 χ^2 /NDF: 3339.6/25

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.097 $\pm$ 0.442 χ^2 /NDF: 3195.5/30

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

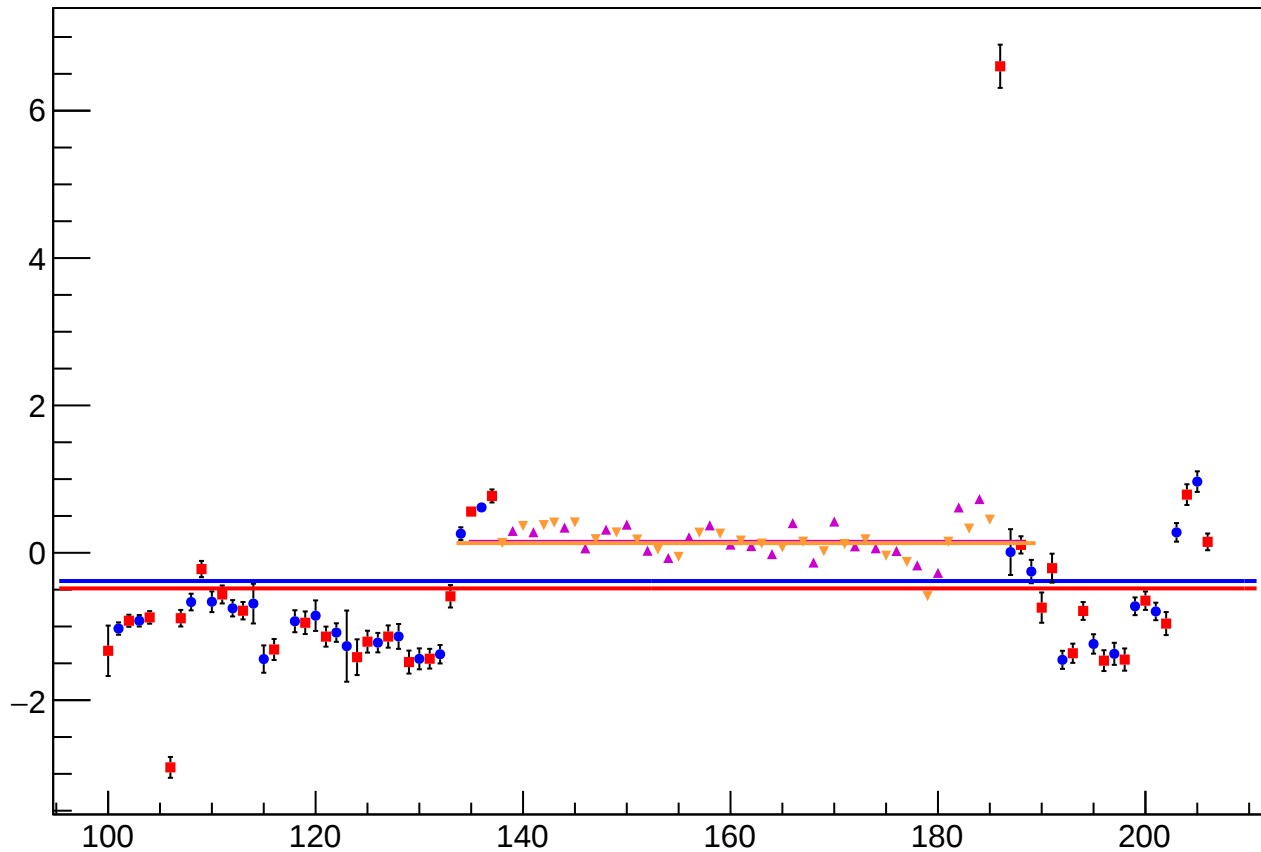
Right: 28.104 $\pm$ 0.309 χ^2 /NDF: 6535.1/56

In: 36.383 $\pm$ 0.120 χ^2 /NDF:6131.8/48

Out: 36.676 $\pm$ 0.118 χ^2 /NDF:6751.0/55

All: 36.532 $\pm$ 0.084 χ^2 /NDF: 12885.8/104

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.383 ± 0.022 χ^2/NDF : 1320.7/25

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.483 ± 0.022 χ^2/NDF : 2039.0/30

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

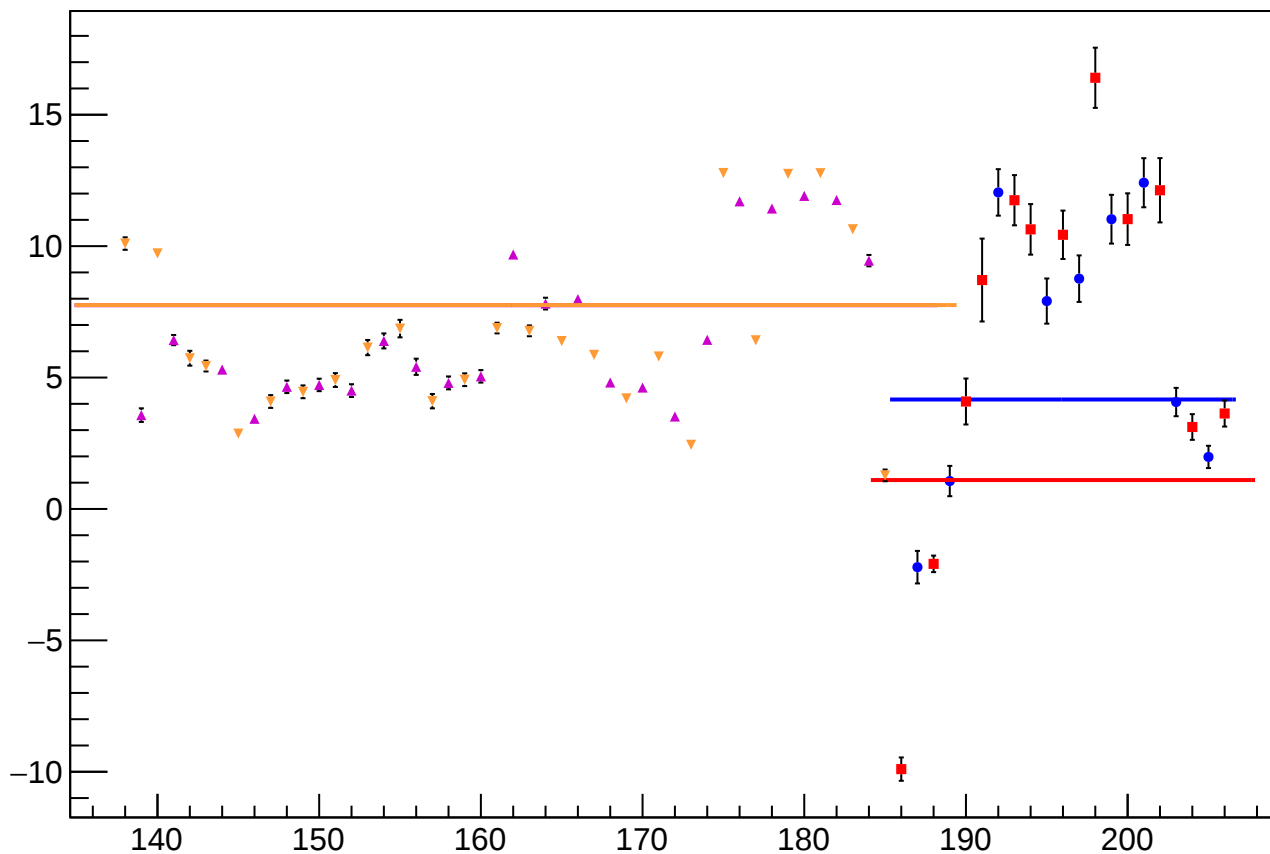
Right: -0.433 ± 0.015 χ^2/NDF : 3370.1/56

In: 0.115 ± 0.006 χ^2/NDF : 3673.6/48

Out: 0.093 ± 0.005 χ^2/NDF : 4206.9/55

All: 0.104 ± 0.004 χ^2/NDF : 7888.4/104

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.165 $\pm$ 0.219 χ^2 /NDF: 419.7/8

Left Out: 7.757 $\pm$ 0.034 χ^2 /NDF:11728.6/24

Right Out: 1.100 $\pm$ 0.180 χ^2 /NDF: 1480.9/11

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

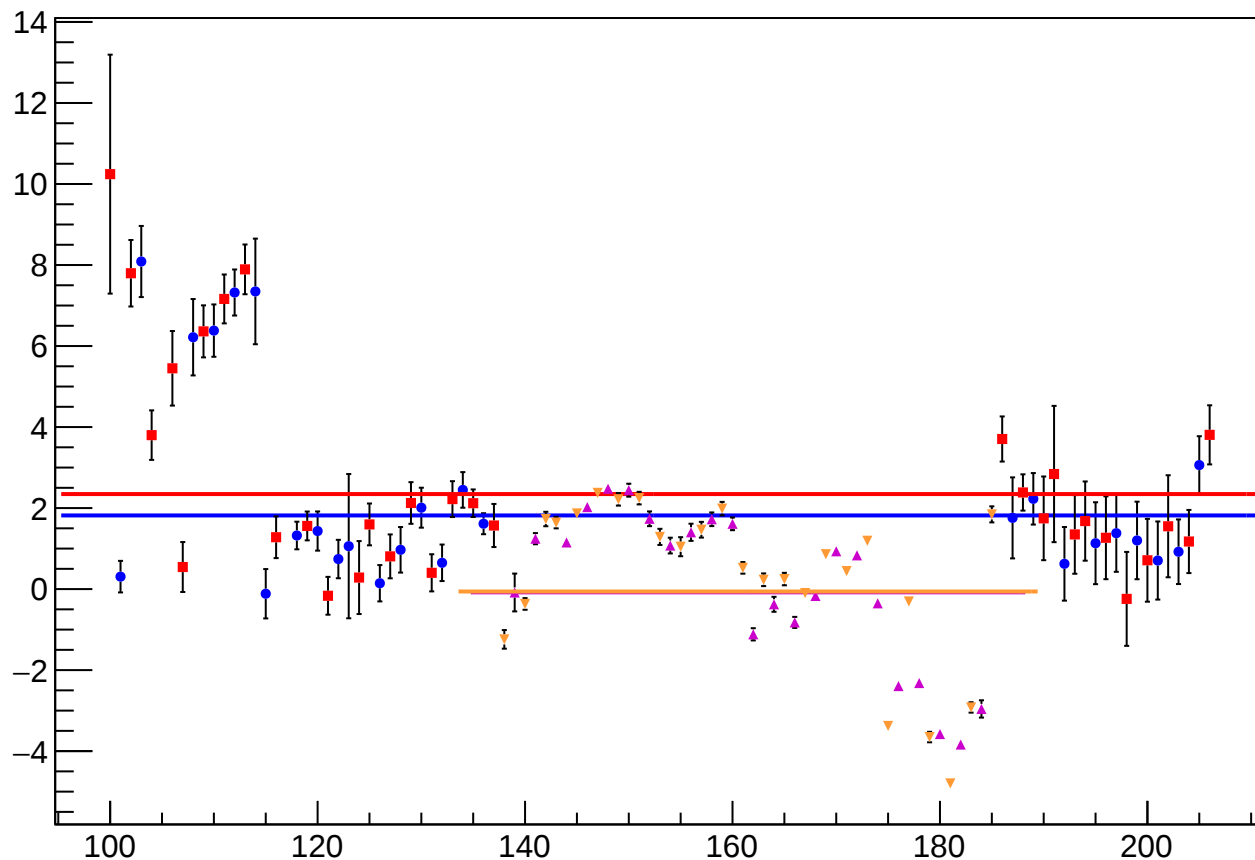
Right: 2.333 $\pm$ 0.139 χ^2 /NDF: 2017.5/20

In: 7.663 $\pm$ 0.035 χ^2 /NDF:9026.3/31

Out: 7.523 $\pm$ 0.034 χ^2 /NDF:14532.0/36

All: 7.591 $\pm$ 0.024 χ^2 /NDF: 23566.7/68

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.818 ± 0.108 $\chi^2/\text{NDF}: 302.2/25$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.346 ± 0.109 $\chi^2/\text{NDF}: 358.8/30$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

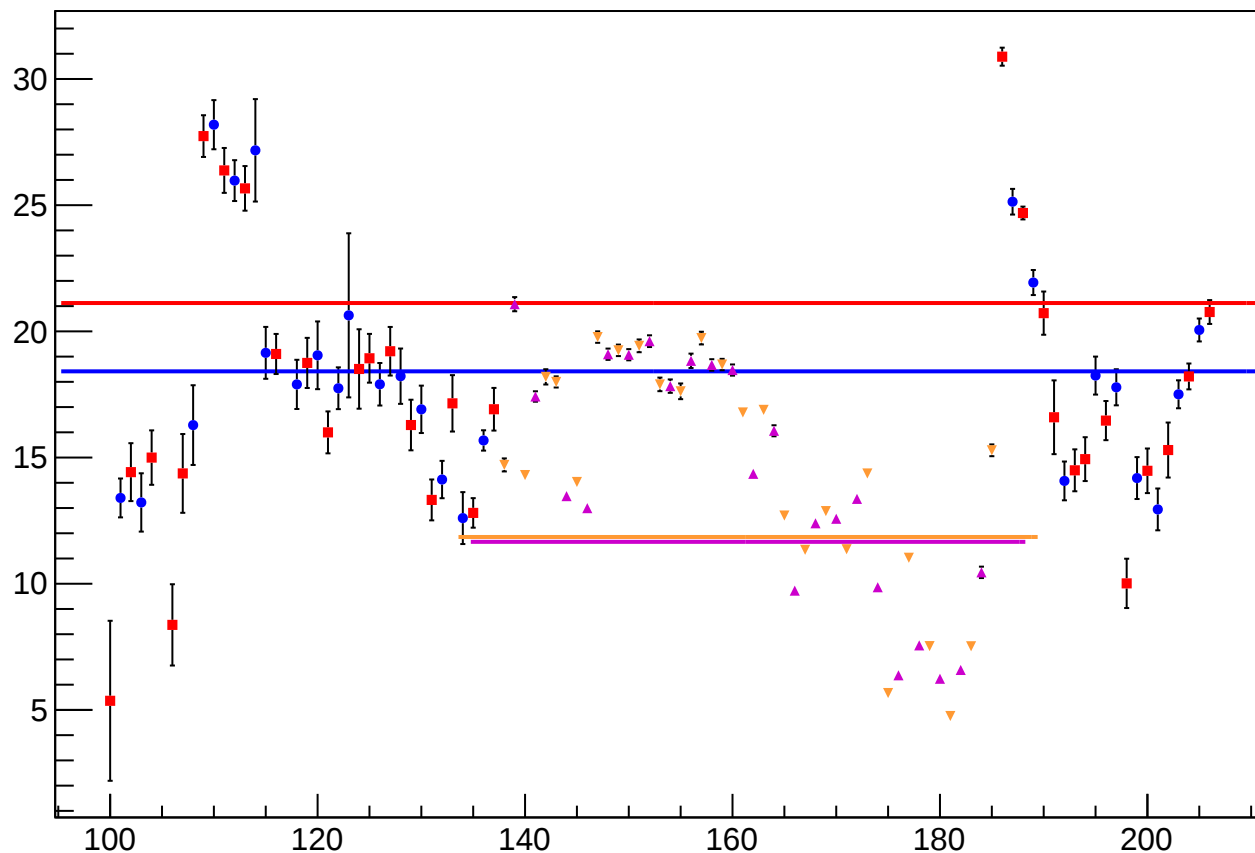
Right: 2.081 ± 0.077 $\chi^2/\text{NDF}: 672.8/56$

In: 0.040 ± 0.027 $\chi^2/\text{NDF}: 5569.0/48$

Out: 0.088 ± 0.027 $\chi^2/\text{NDF}: 6888.0/55$

All: 0.065 ± 0.019 $\chi^2/\text{NDF}: 12458.5/104$

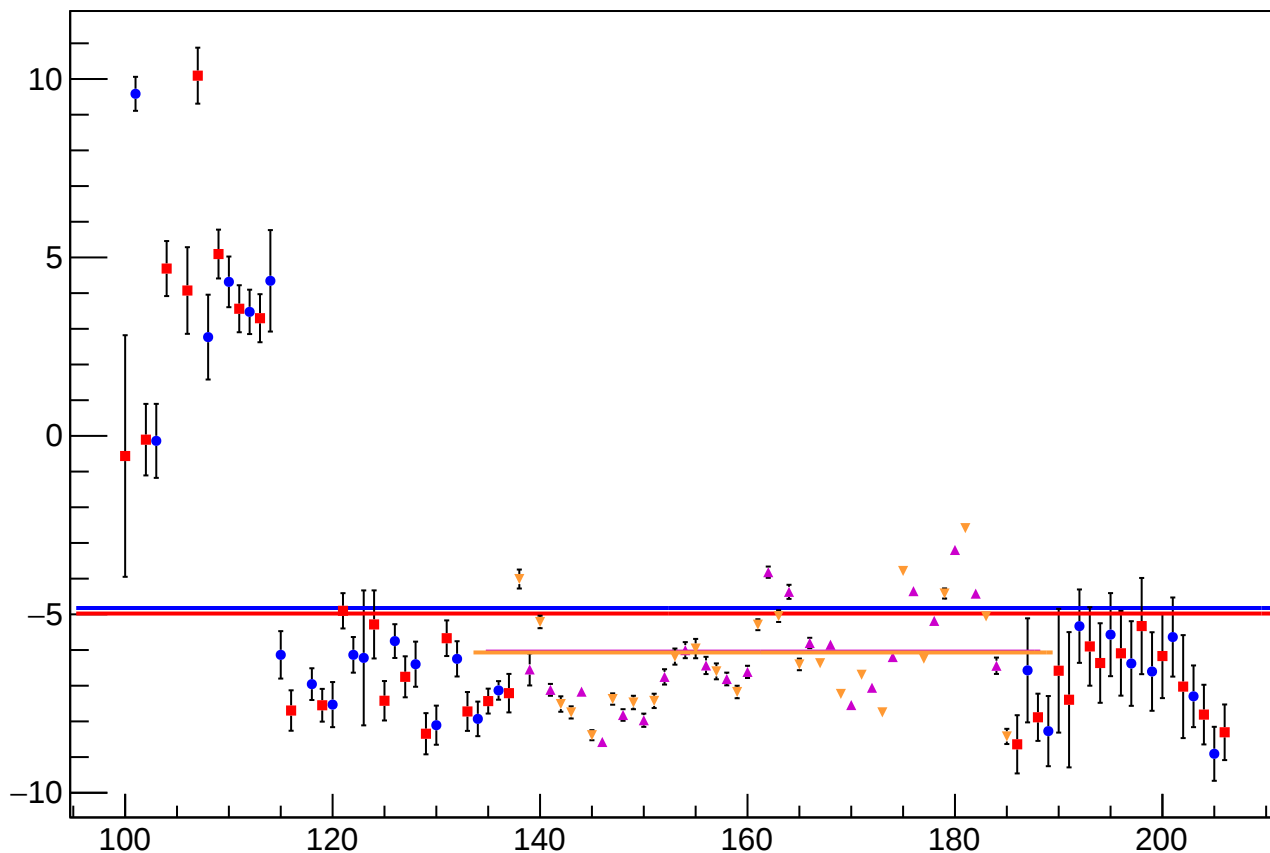
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.416 $\pm$ 0.147 χ^2 /NDF: 730.6/25
 Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24
 Right Out: 21.123 $\pm$ 0.127 χ^2 /NDF: 2067.9/30
 Left In: 11.660 $\pm$ 0.035 χ^2 /NDF:16710.2/22

Left: 11.758 $\pm$ 0.025 χ^2 /NDF: 35874.9/47
 Right: 19.962 $\pm$ 0.096 χ^2 /NDF: 2992.8/56
 In: 12.027 $\pm$ 0.034 χ^2 /NDF:19444.5/48
 Out: 12.495 $\pm$ 0.033 χ^2 /NDF:26164.8/55
 All: 12.266 $\pm$ 0.024 χ^2 /NDF: 45704.7/104

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.823 ± 0.122 $\chi^2/\text{NDF}: 1645.7/25$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -4.978 ± 0.124 $\chi^2/\text{NDF}: 1432.7/30$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

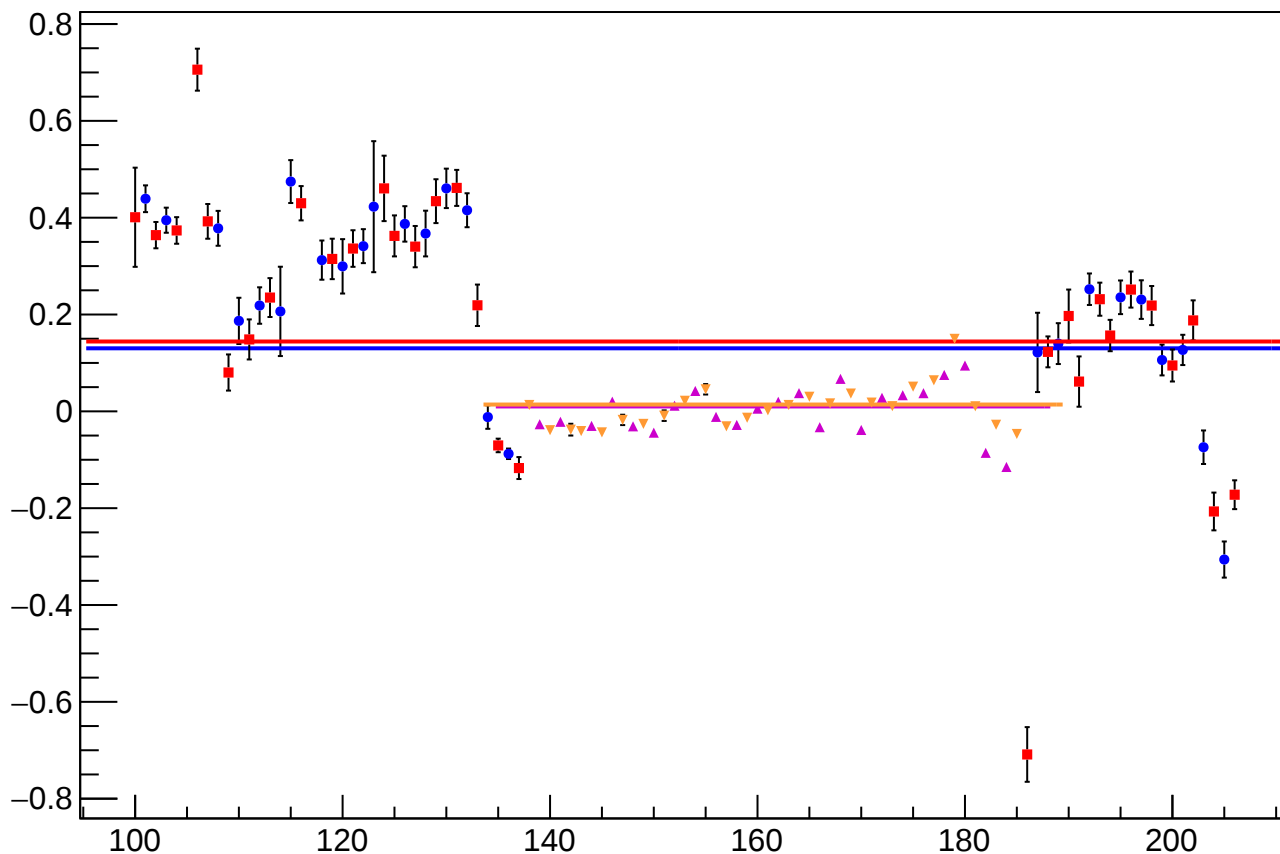
Right: -4.899 ± 0.087 $\chi^2/\text{NDF}: 3079.2/56$

In: -5.968 ± 0.031 $\chi^2/\text{NDF}: 4033.6/48$

Out: -6.004 ± 0.030 $\chi^2/\text{NDF}: 4176.9/55$

All: -5.986 ± 0.022 $\chi^2/\text{NDF}: 8211.1/104$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.130 $\pm$ 0.006 χ^2 /NDF: 1262.4/25

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF:956.2/24

Right Out: 0.144 $\pm$ 0.006 χ^2 /NDF: 1473.8/30

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

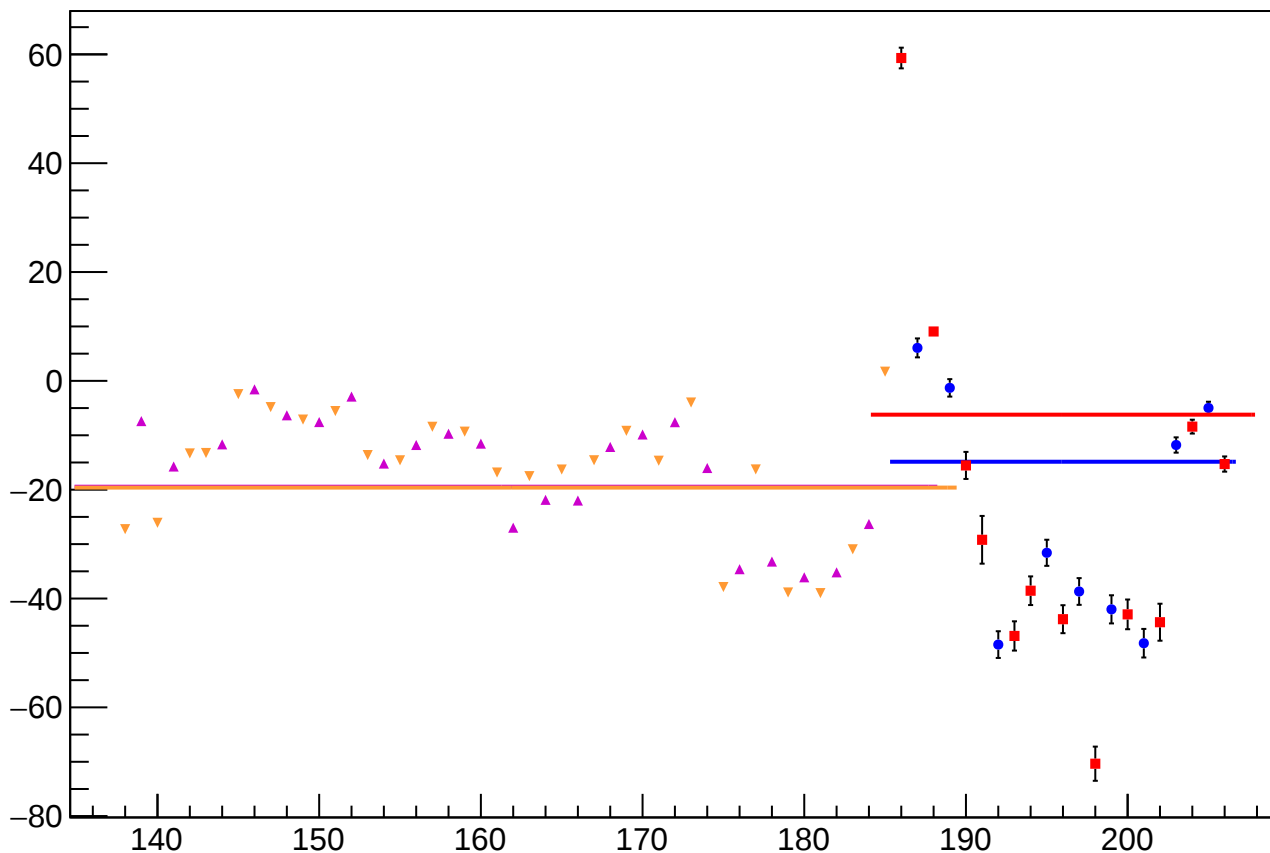
Right: 0.137 $\pm$ 0.004 χ^2 /NDF: 2738.8/56

In: 0.016 $\pm$ 0.001 χ^2 /NDF:2842.5/48

Out: 0.021 $\pm$ 0.001 χ^2 /NDF:2858.2/55

All: 0.019 $\pm$ 0.001 χ^2 /NDF: 5705.3/104

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.861 ± 0.598 $\chi^2/\text{NDF}: 897.3/8$
 Left Out: -19.612 ± 0.103 $\chi^2/\text{NDF}: 15761.3/24$
 Right Out: -6.212 ± 0.515 $\chi^2/\text{NDF}: 2917.5/11$
 Left In: -19.450 ± 0.105 $\chi^2/\text{NDF}: 12283.1/22$

Left: -19.533 ± 0.074 $\chi^2/\text{NDF}: 28045.6/47$

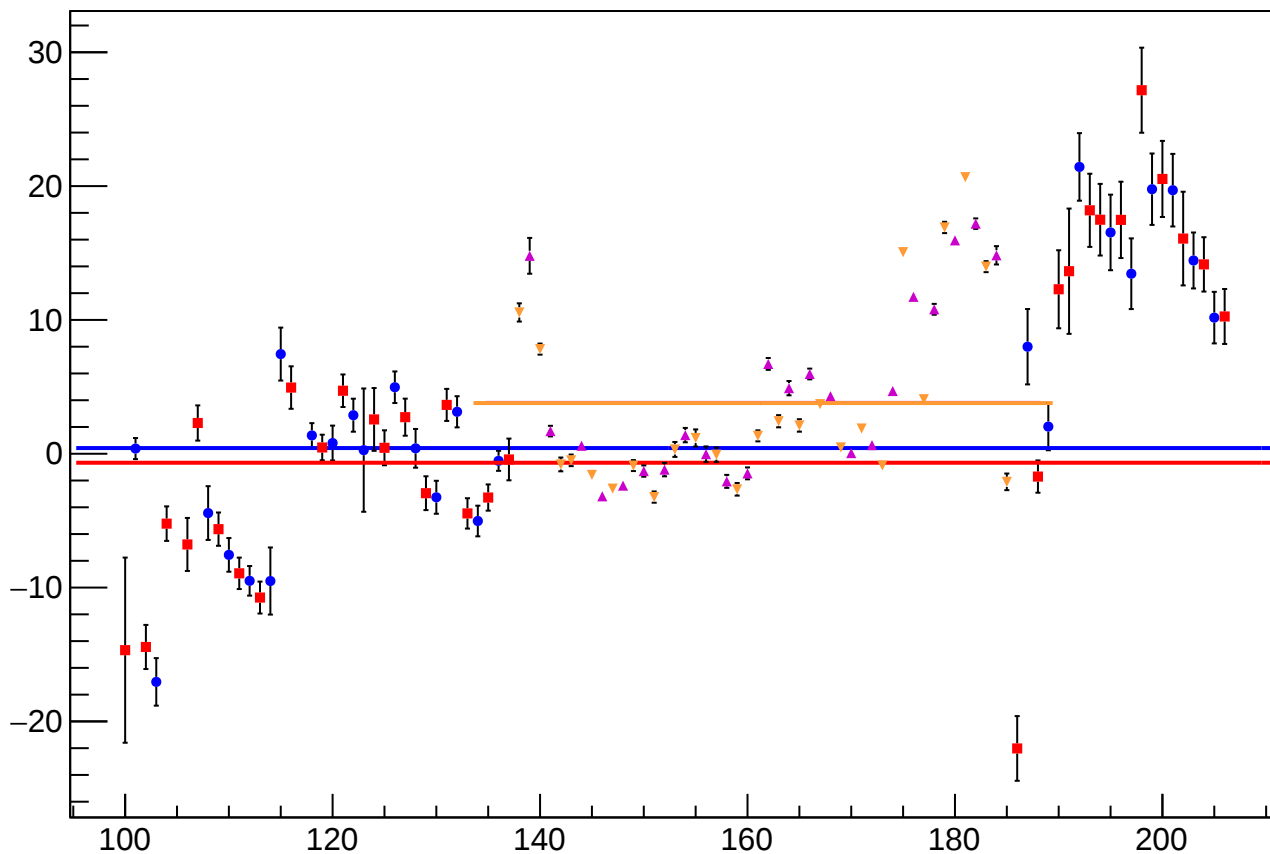
Right: -9.895 ± 0.391 $\chi^2/\text{NDF}: 3934.8/20$

In: -19.313 ± 0.103 $\chi^2/\text{NDF}: 13237.5/31$

Out: -19.096 ± 0.101 $\chi^2/\text{NDF}: 19328.8/36$

All: -19.202 ± 0.072 $\chi^2/\text{NDF}: 32568.5/68$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.426 $\pm$ 0.274 χ^2 /NDF: 618.1/25

Left Out: 3.788 $\pm$ 0.082 χ^2 /NDF:7150.5/24

Right Out: -0.672 $\pm$ 0.276 χ^2 /NDF: 793.1/30

Left In: 3.799 $\pm$ 0.084 χ^2 /NDF:5517.0/22

Left: 3.793 $\pm$ 0.059 χ^2 /NDF: 12667.5/47

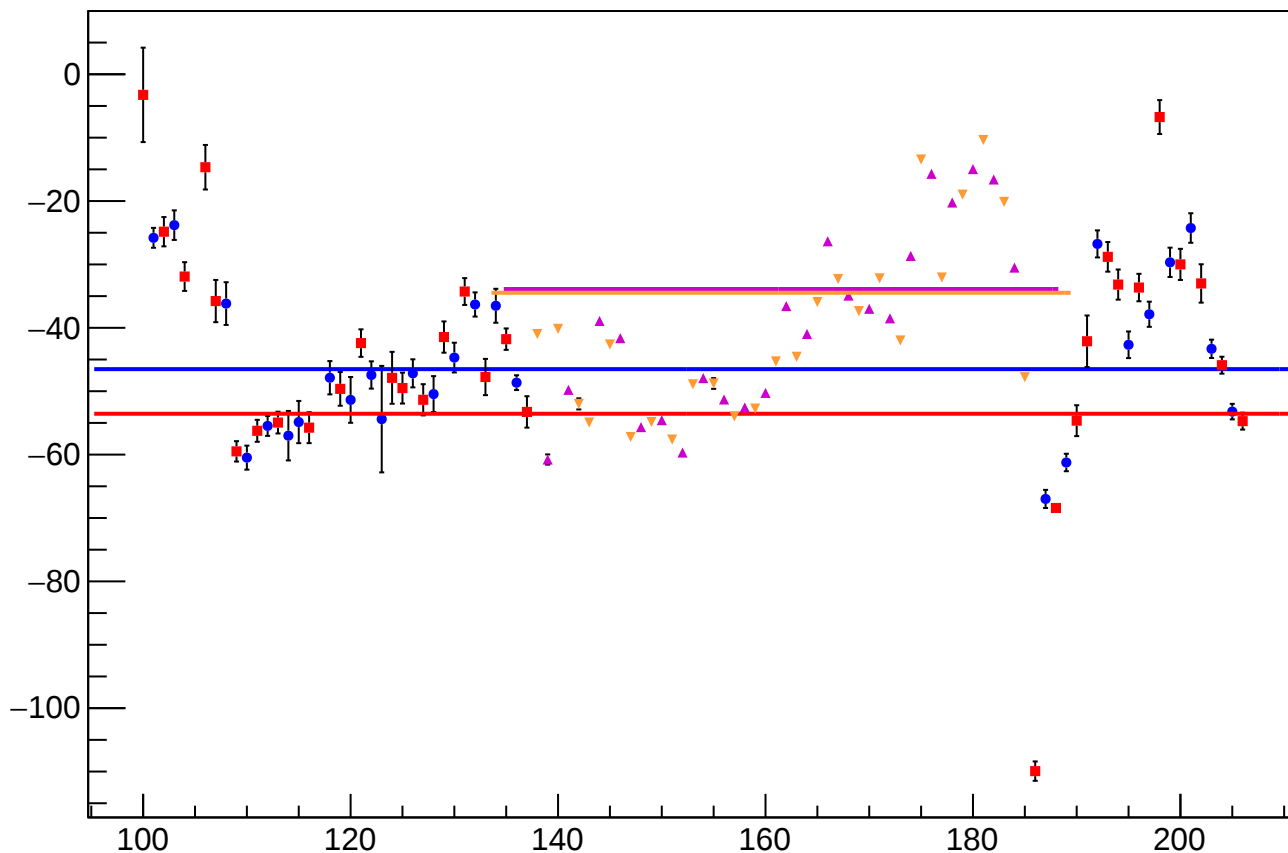
Right: -0.119 $\pm$ 0.195 χ^2 /NDF: 1419.1/56

In: 3.512 $\pm$ 0.080 χ^2 /NDF:6273.6/48

Out: 3.426 $\pm$ 0.079 χ^2 /NDF:8183.2/55

All: 3.468 $\pm$ 0.056 χ^2 /NDF: 14457.3/104

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -46.518 ± 0.382 $\chi^2/\text{NDF}: 1036.2/25$

Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF}: 20196.3/24$

Right Out: -53.554 ± 0.343 $\chi^2/\text{NDF}: 3242.9/30$

Left In: -33.875 ± 0.105 $\chi^2/\text{NDF}: 17638.7/22$

Left: -34.177 ± 0.074 $\chi^2/\text{NDF}: 37851.2/47$

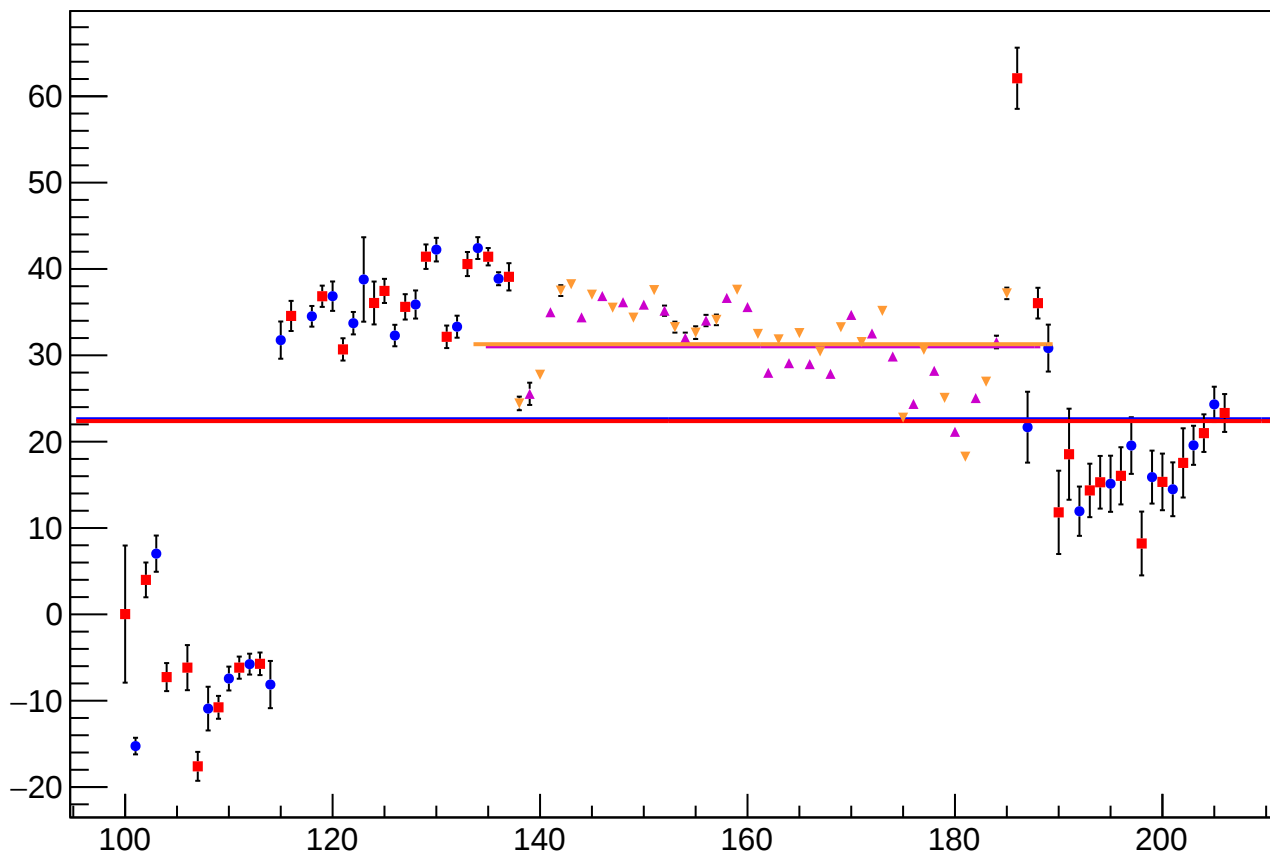
Right: -50.408 ± 0.255 $\chi^2/\text{NDF}: 4466.6/56$

In: -34.768 ± 0.101 $\chi^2/\text{NDF}: 19693.1/48$

Out: -36.072 ± 0.100 $\chi^2/\text{NDF}: 26266.7/55$

All: -35.433 ± 0.071 $\chi^2/\text{NDF}: 46044.1/104$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.598 $\pm$ 0.310 χ^2 /NDF: 4361.5/25

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.381 $\pm$ 0.315 χ^2 /NDF: 4257.7/30

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

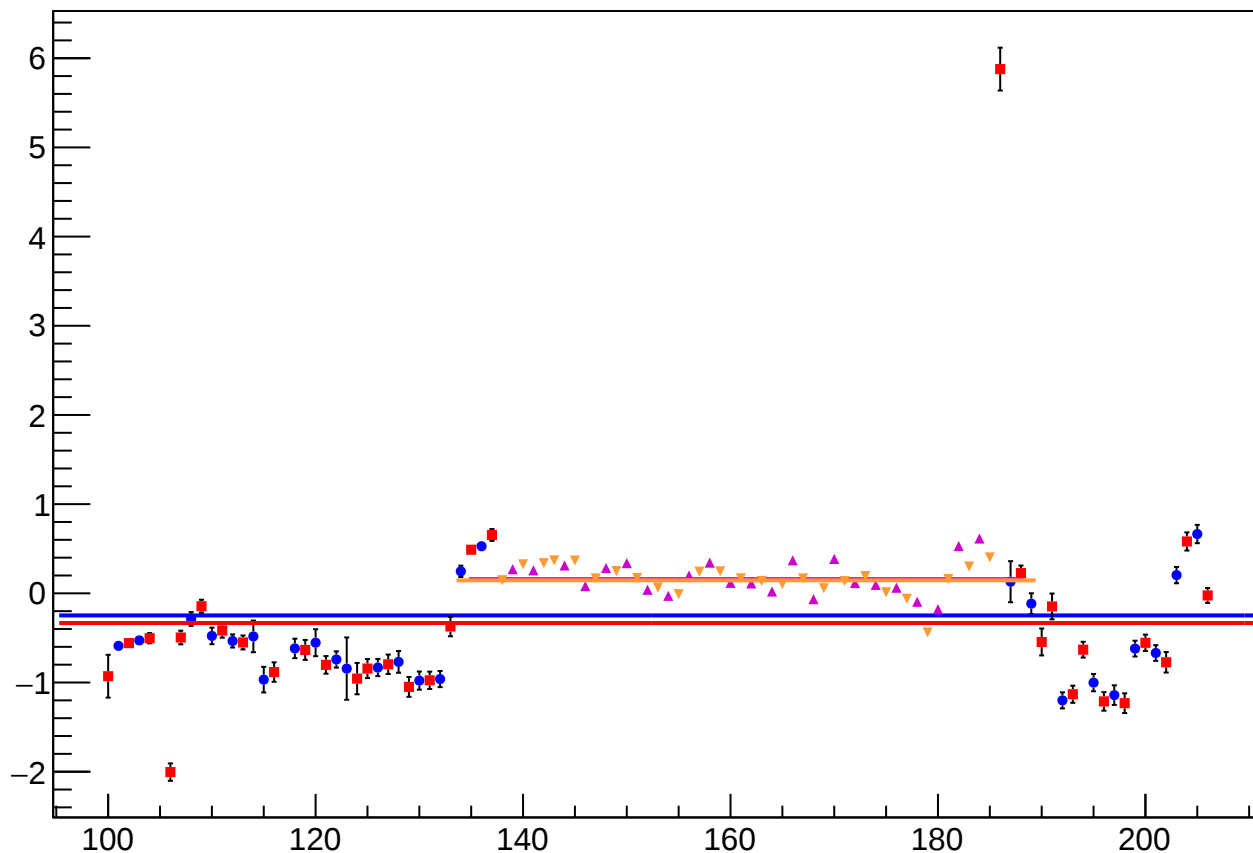
Right: 22.491 $\pm$ 0.221 χ^2 /NDF: 8619.4/56

In: 30.325 $\pm$ 0.090 χ^2 /NDF:7520.5/48

Out: 30.583 $\pm$ 0.089 χ^2 /NDF:8337.2/55

All: 30.456 $\pm$ 0.063 χ^2 /NDF: 15861.9/104

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.248 ± 0.016 χ^2/NDF : 1395.5/25

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.333 ± 0.016 χ^2/NDF : 2221.8/30

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

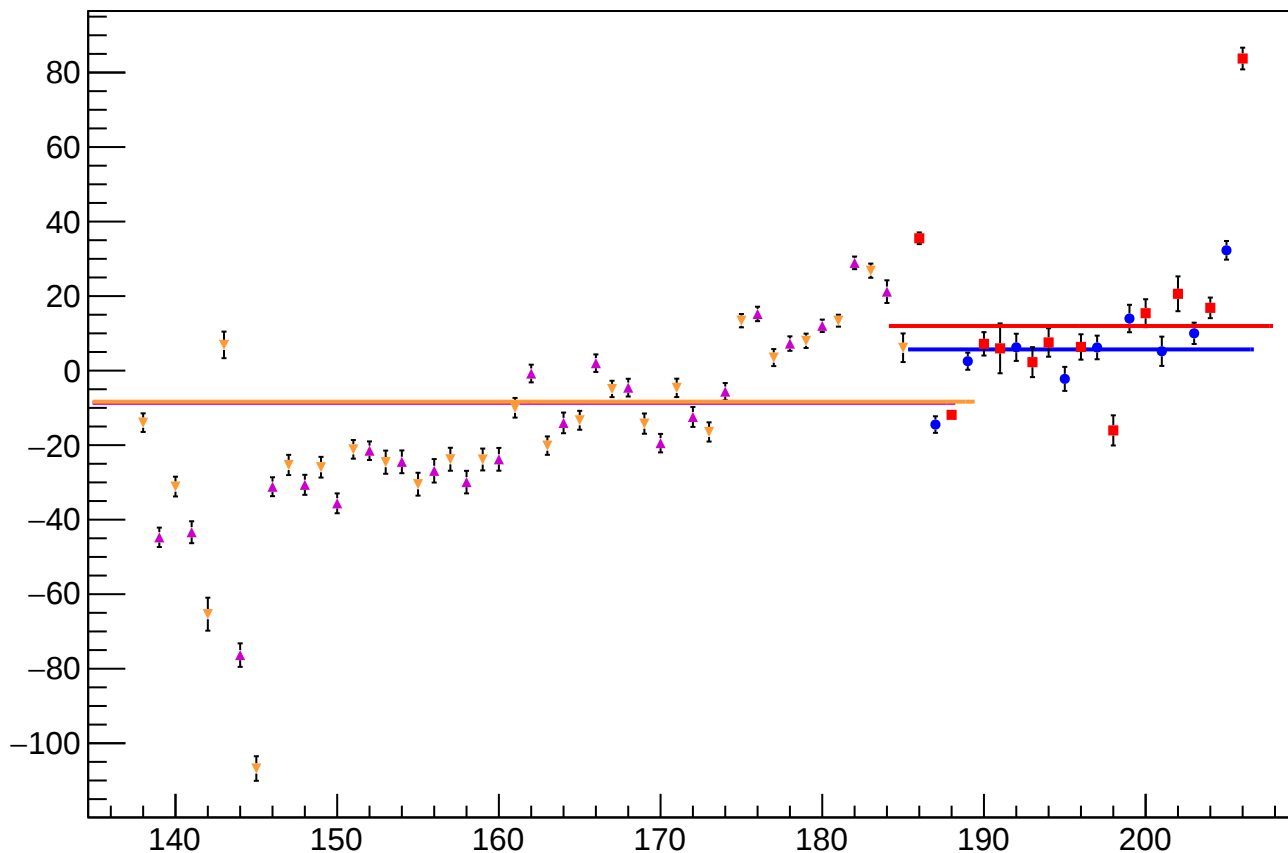
Right: -0.291 ± 0.011 χ^2/NDF : 3632.1/56

In: 0.130 ± 0.004 χ^2/NDF : 4026.3/48

Out: 0.113 ± 0.004 χ^2/NDF : 4676.2/55

All: 0.121 ± 0.003 χ^2/NDF : 8711.9/104

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.689 ± 0.961 $\chi^2/\text{NDF}: 210.8/8$

Left Out: -8.332 ± 0.500 $\chi^2/\text{NDF}: 2226.2/24$

Right Out: 11.980 ± 0.740 $\chi^2/\text{NDF}: 1271.1/11$

Left In: -8.652 ± 0.507 $\chi^2/\text{NDF}: 2223.8/22$

Left: -8.490 ± 0.356 $\chi^2/\text{NDF}: 4450.2/47$

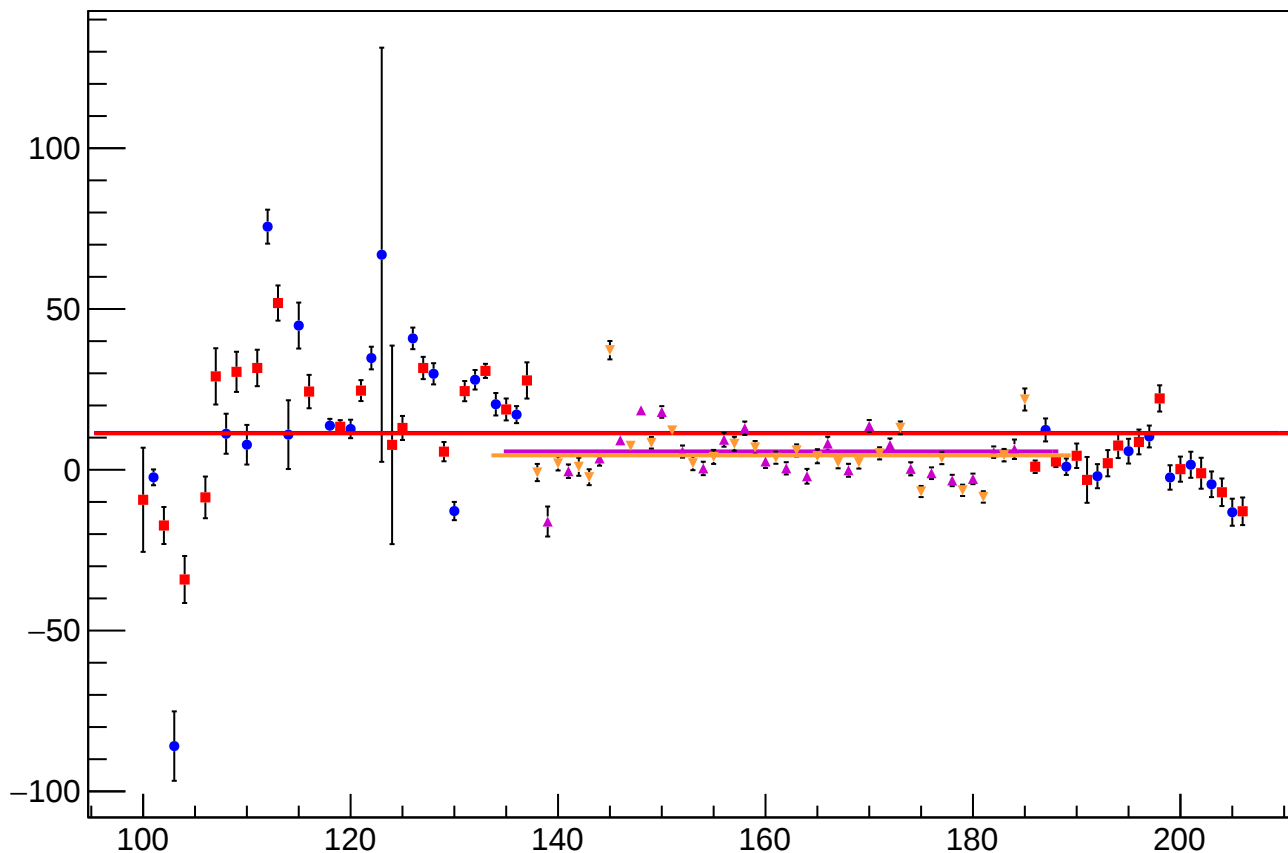
Right: 9.636 ± 0.586 $\chi^2/\text{NDF}: 1508.8/20$

In: -5.526 ± 0.449 $\chi^2/\text{NDF}: 2608.9/31$

Out: -1.977 ± 0.414 $\chi^2/\text{NDF}: 4014.5/36$

All: -3.610 ± 0.304 $\chi^2/\text{NDF}: 6657.2/68$

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.449 $\pm$ 0.697 χ^2 /NDF: 651.7/25

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF:371.9/24

Right Out: 11.331 $\pm$ 0.646 χ^2 /NDF: 467.3/30

Left In: 5.705 $\pm$ 0.404 χ^2 /NDF:324.1/22

Left: 5.076 $\pm$ 0.281 χ^2 /NDF: 700.6/47

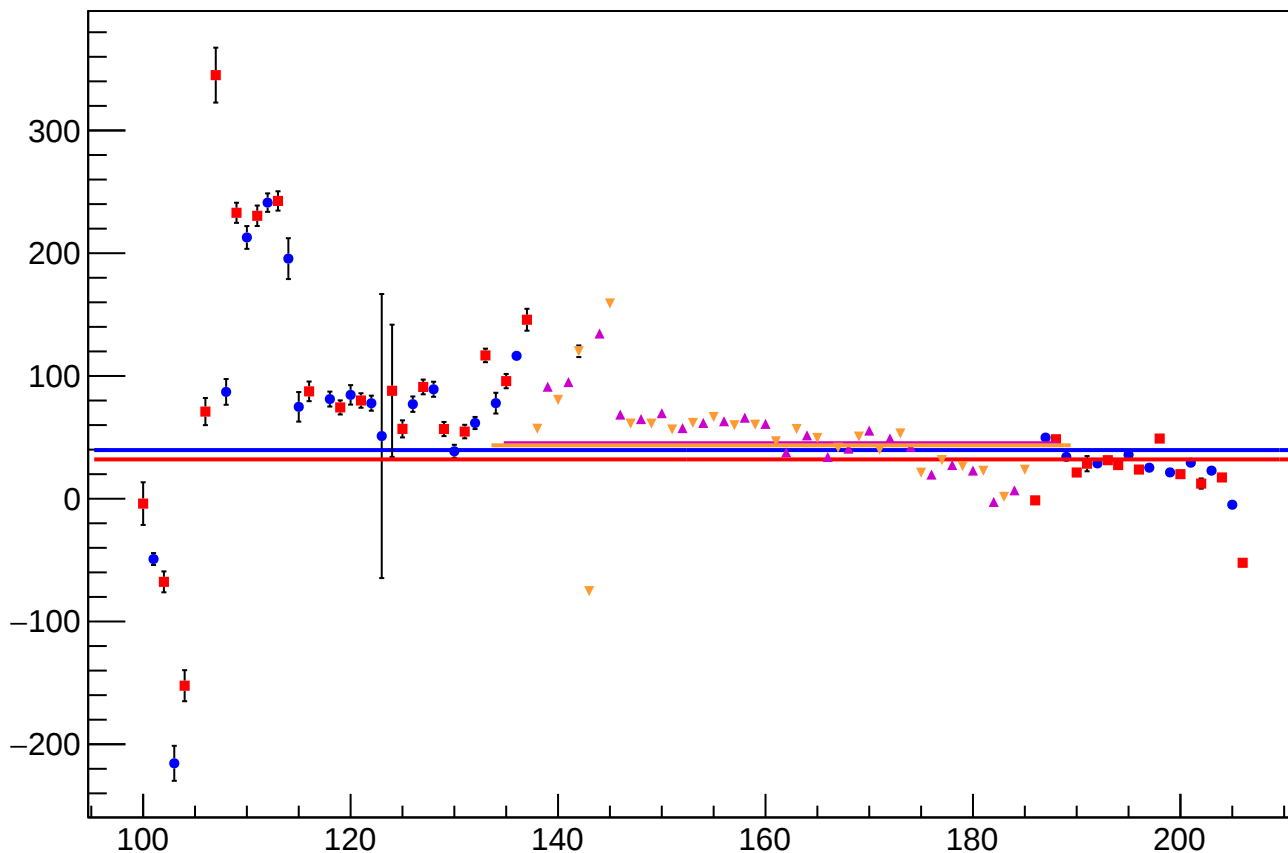
Right: 11.385 $\pm$ 0.474 χ^2 /NDF: 1119.0/56

In: 7.150 $\pm$ 0.350 χ^2 /NDF:1026.6/48

Out: 6.329 $\pm$ 0.335 χ^2 /NDF:921.3/55

All: 6.722 $\pm$ 0.242 χ^2 /NDF: 1950.8/104

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 39.635+/-0.756 χ^2/NDF : 2883.1/25

Left Out: 43.524+/-0.498 χ^2/NDF : 3830.7/24

Right Out: 32.045+/-0.589 χ^2/NDF : 5280.3/30

Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47

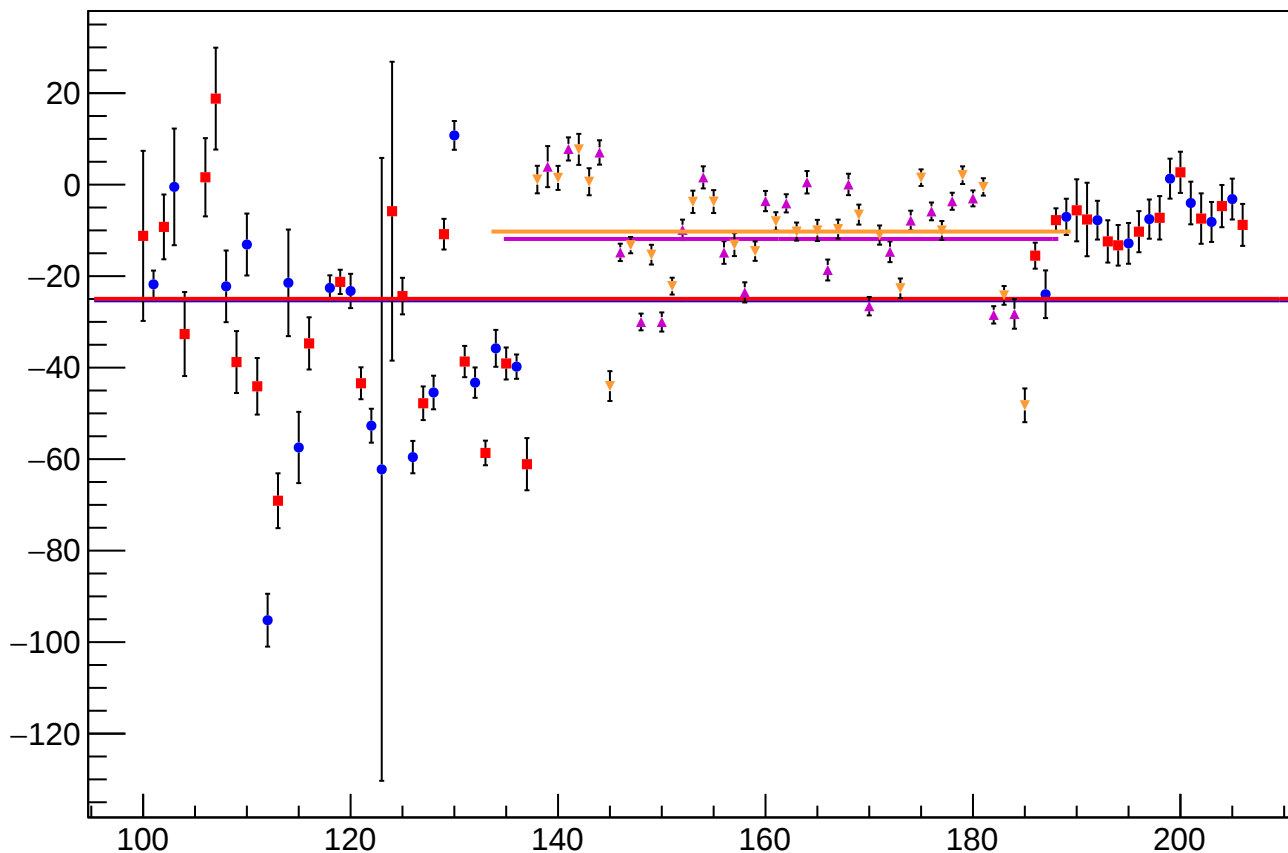
Right: 34.912+/-0.465 χ^2/NDF : 8226.2/56

In: 43.495+/-0.420 χ^2/NDF : 5969.3/48

Out: 38.735+/-0.380 χ^2/NDF : 9332.3/55

All: 40.883+/-0.282 χ^2/NDF : 15372.3/104

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -25.287 ± 0.818 χ^2/NDF : 711.0/25

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -24.971 ± 0.784 χ^2/NDF : 604.7/30

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

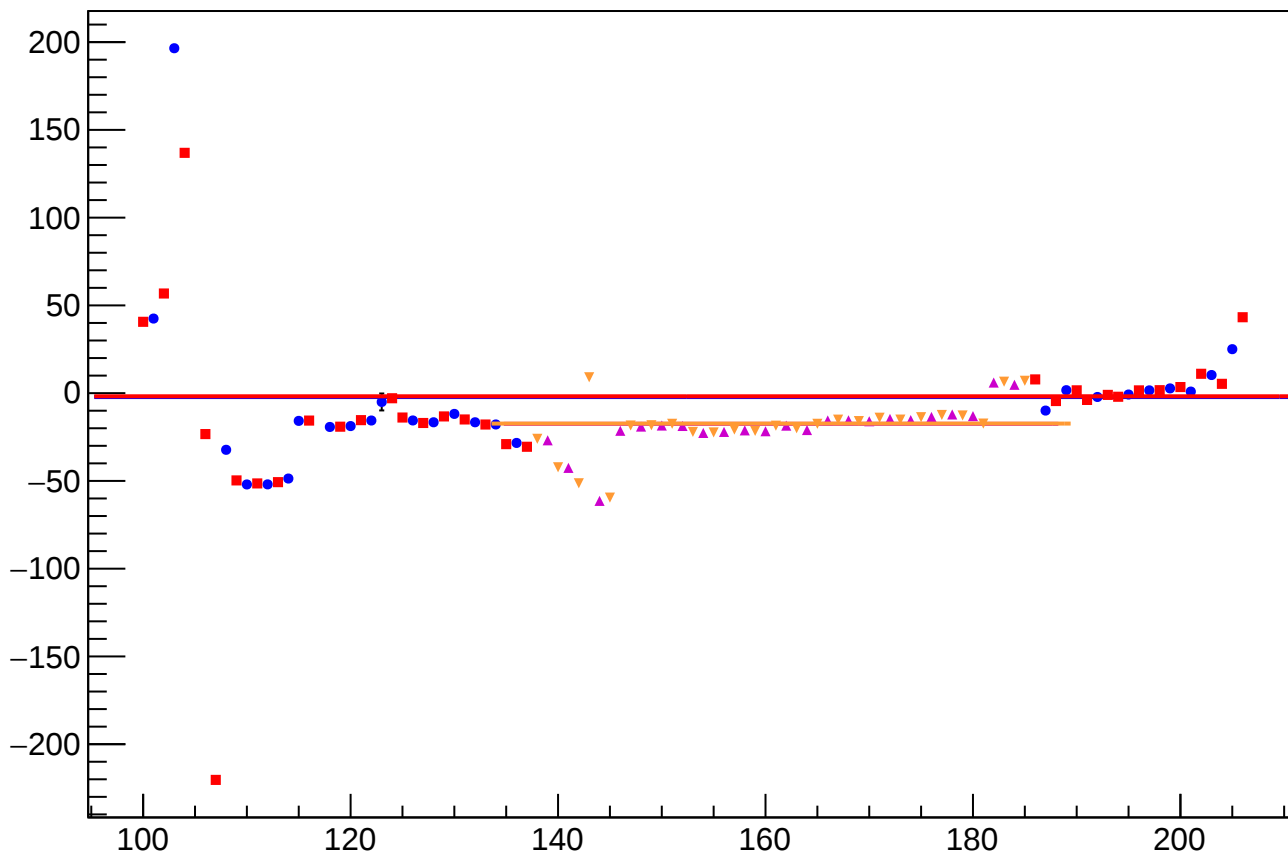
Right: -25.122 ± 0.566 χ^2/NDF : 1315.8/56

In: -15.058 ± 0.398 χ^2/NDF : 1582.3/48

Out: -13.836 ± 0.386 χ^2/NDF : 1424.0/55

All: -14.429 ± 0.277 χ^2/NDF : 3011.2/104

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -2.220 ± 0.039 χ^2/NDF : 612805.5/25

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.781 ± 0.036 χ^2/NDF : 670996.2/30

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

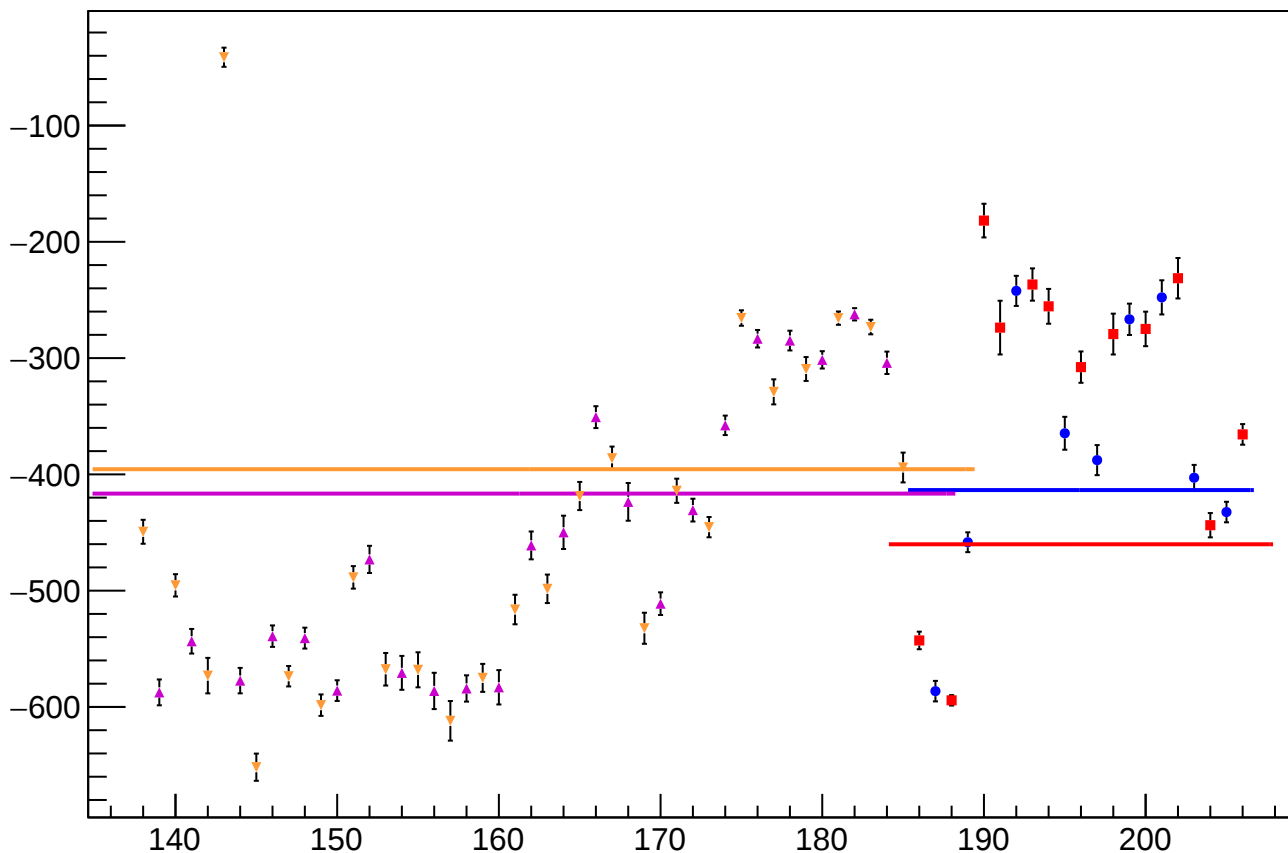
Right: -1.987 ± 0.027 χ^2/NDF : 1283869.9/56

In: -14.109 ± 0.018 χ^2/NDF : 992820.3/48

Out: -13.620 ± 0.018 χ^2/NDF : 1134947.3/55

All: -13.859 ± 0.013 χ^2/NDF : 2128137.0/104

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -413.489 ± 3.658 χ^2/NDF : 854.8/8

Left Out: -395.547 ± 1.953 χ^2/NDF : 5946.5/24

Right Out: -460.104 ± 2.863 χ^2/NDF : 2574.1/11

Left In: -416.521 ± 2.005 χ^2/NDF : 3917.0/22

Left: -405.762 ± 1.399 χ^2/NDF : 9919.7/47

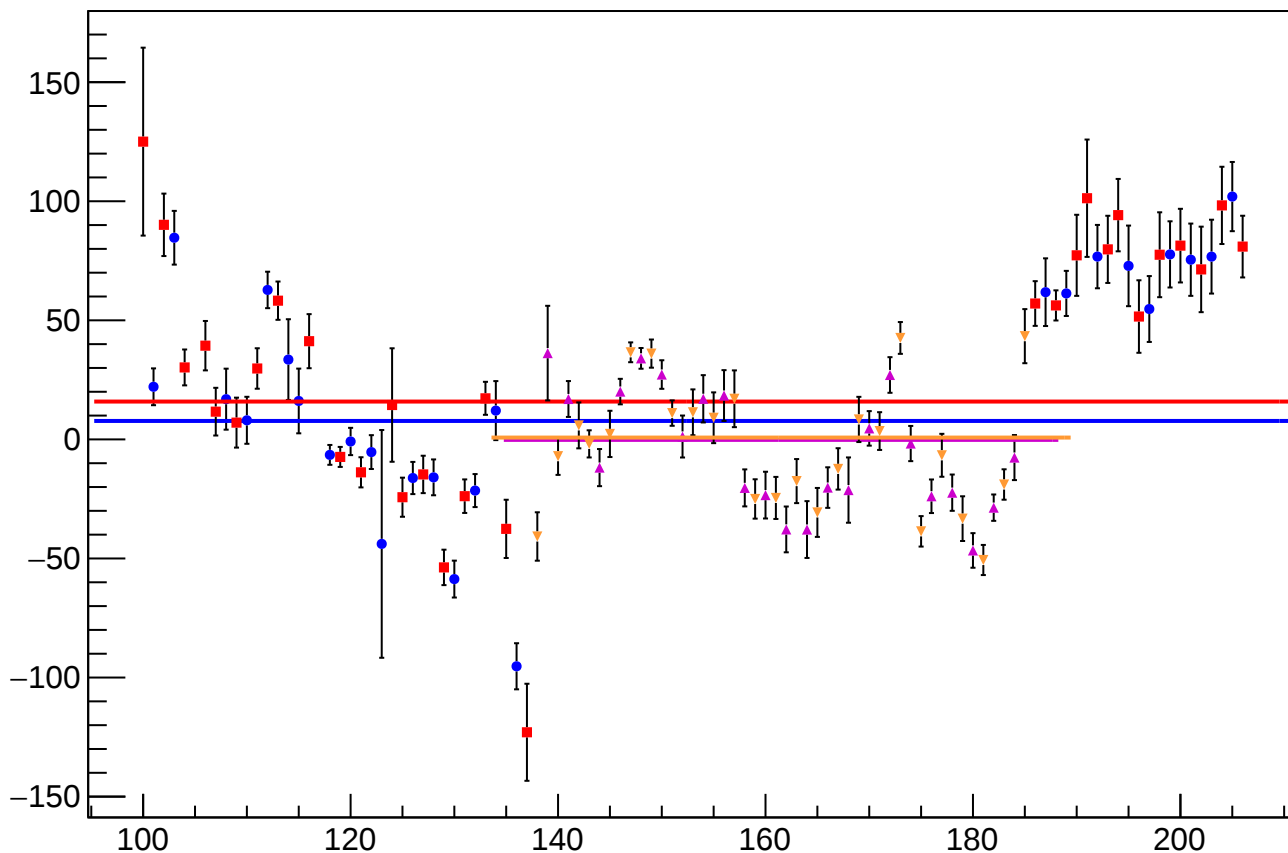
Right: -442.398 ± 2.255 χ^2/NDF : 3529.6/20

In: -415.821 ± 1.758 χ^2/NDF : 4772.3/31

Out: -416.054 ± 1.614 χ^2/NDF : 8867.6/36

All: -415.948 ± 1.189 χ^2/NDF : 13639.9/68

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.747 ± 1.772 $\chi^2/\text{NDF}: 557.2/25$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 15.891 ± 1.697 $\chi^2/\text{NDF}: 589.6/30$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

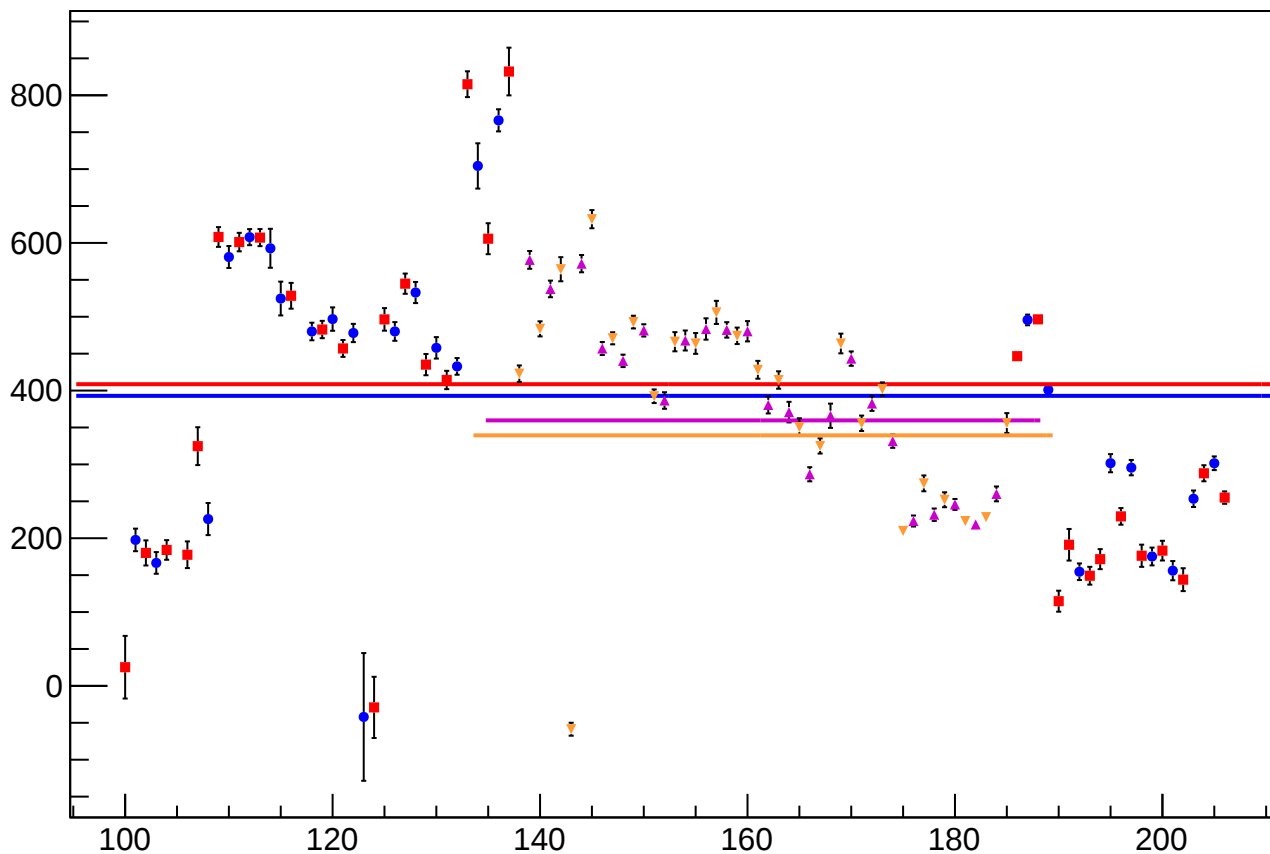
Right: 11.997 ± 1.226 $\chi^2/\text{NDF}: 1157.8/56$

In: 3.305 ± 1.177 $\chi^2/\text{NDF}: 829.2/48$

Out: 7.416 ± 1.125 $\chi^2/\text{NDF}: 984.2/55$

All: 5.454 ± 0.813 $\chi^2/\text{NDF}: 1819.8/104$

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 392.865 ± 2.435 χ^2/NDF : 3867.8/25

Left Out: 339.355 ± 1.963 χ^2/NDF : 5502.5/24

Right Out: 408.633 ± 2.008 χ^2/NDF : 6077.4/30

Left In: 359.609 ± 2.003 χ^2/NDF : 3398.5/22

Left: 349.278 ± 1.402 χ^2/NDF : 8953.2/47

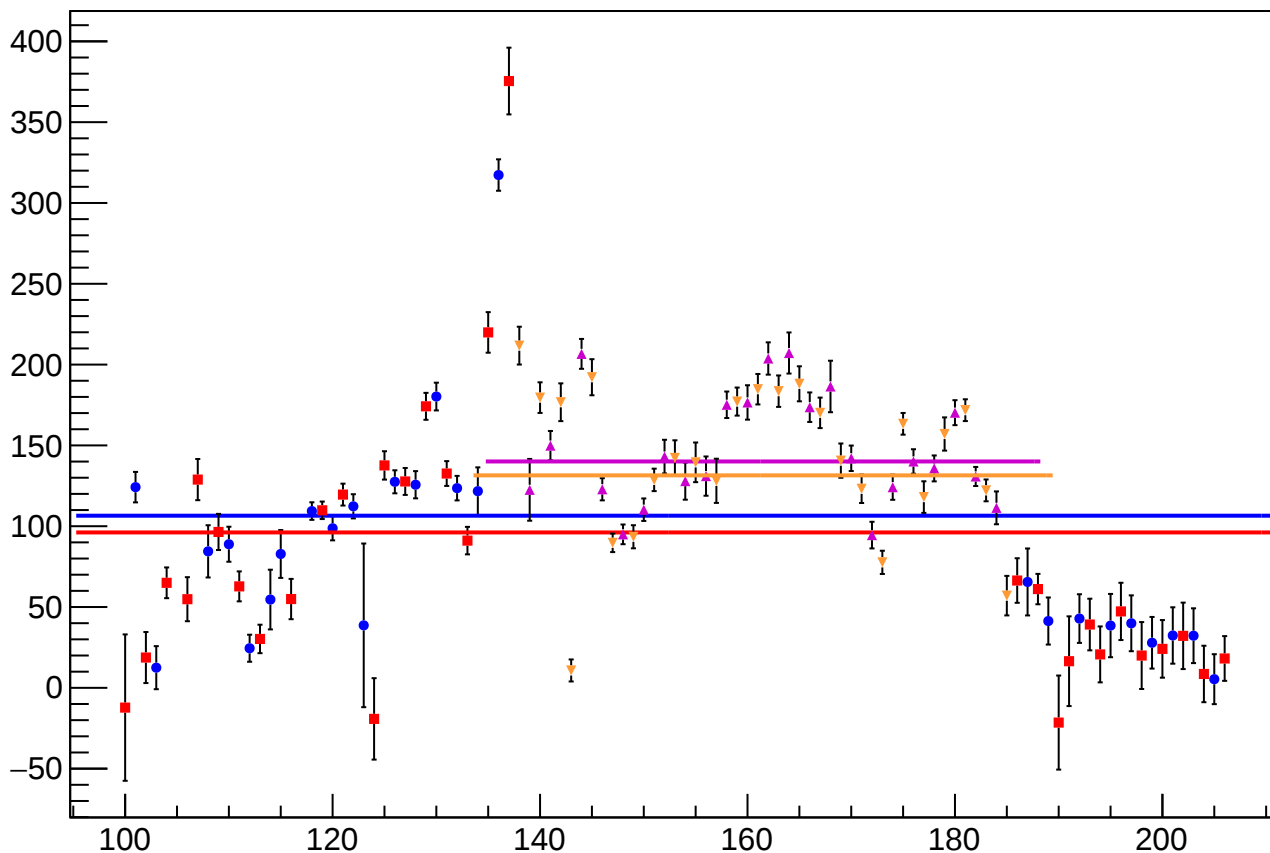
Right: 402.250 ± 1.549 χ^2/NDF : 9970.2/56

In: 373.028 ± 1.547 χ^2/NDF : 7377.6/48

Out: 373.202 ± 1.404 χ^2/NDF : 12188.6/55

All: 373.123 ± 1.039 χ^2/NDF : 19566.2/104

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 106.505 $\pm$ 2.070 χ^2 /NDF: 904.8/25

Left Out: 131.464 $\pm$ 1.728 χ^2 /NDF: 809.3/24

Right Out: 96.148 $\pm$ 1.997 χ^2 /NDF: 782.0/30

Left In: 140.069 $\pm$ 1.795 χ^2 /NDF: 316.5/22

Left: 135.602 $\pm$ 1.245 χ^2 /NDF: 1137.8/47

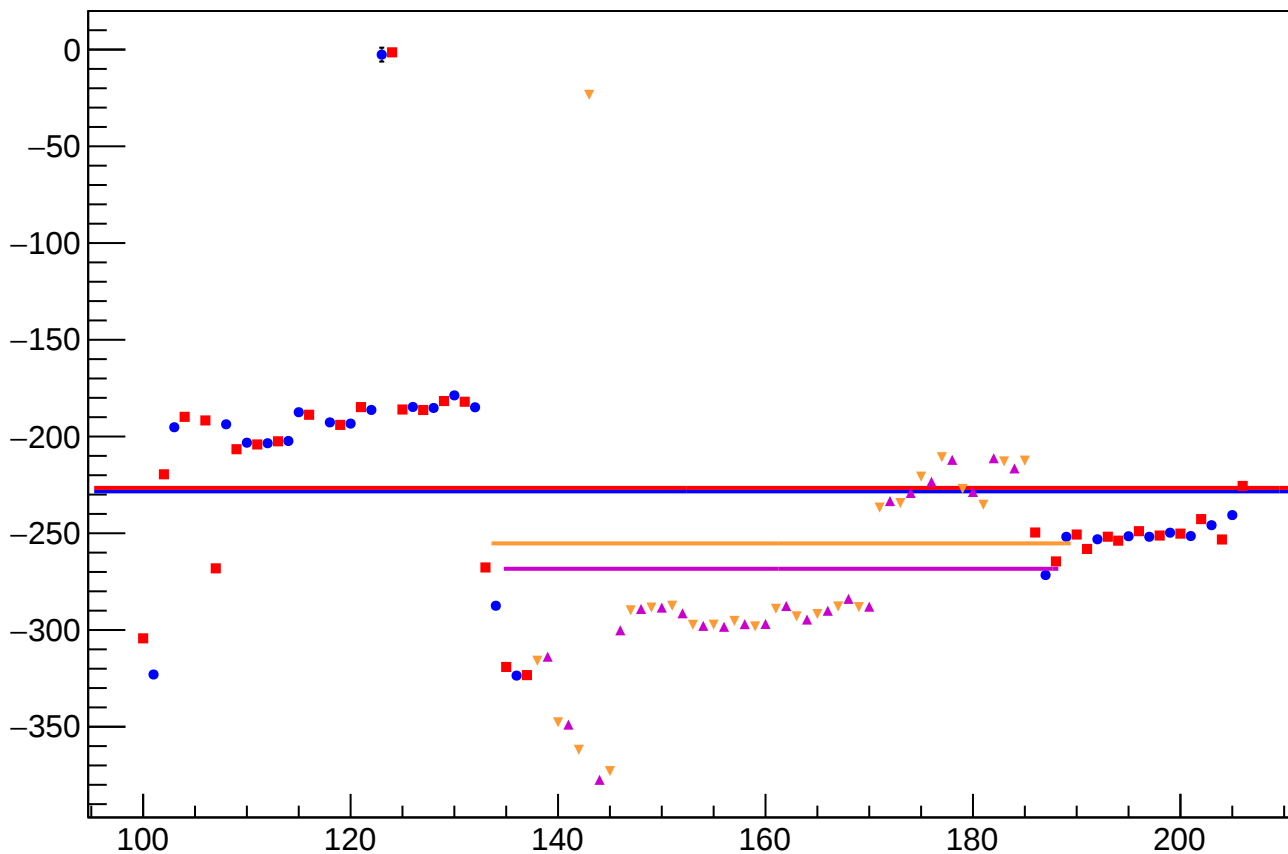
Right: 101.140 $\pm$ 1.437 χ^2 /NDF: 1699.8/56

In: 125.665 $\pm$ 1.356 χ^2 /NDF: 1371.4/48

Out: 116.348 $\pm$ 1.307 χ^2 /NDF: 1770.2/55

All: 120.833 $\pm$ 0.941 χ^2 /NDF: 3166.0/104

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -228.346+/-0.112 χ^2/NDF : 167036.4/25

Left Out: -255.232+/-0.082 χ^2/NDF : 728016.7/24

Right Out: -226.543+/-0.103 χ^2/NDF : 149156.8/30

Left In: -268.353+/-0.084 χ^2/NDF : 262479.3/22

Left: -261.661+/-0.059 χ^2/NDF : 1003051.2/47

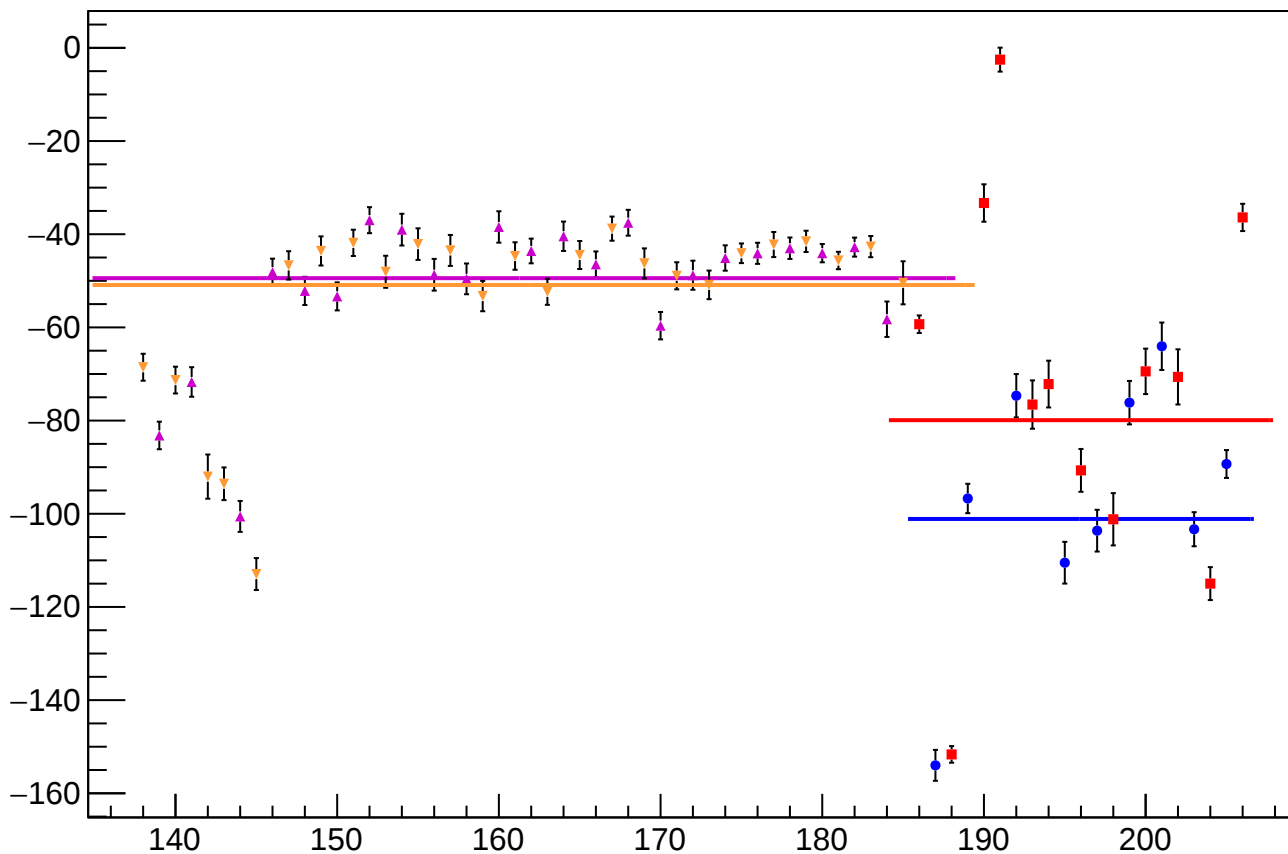
Right: -227.375+/-0.076 χ^2/NDF : 316333.4/56

In: -253.995+/-0.067 χ^2/NDF : 511661.9/48

Out: -244.171+/-0.064 χ^2/NDF : 924411.4/55

All: -248.880+/-0.046 χ^2/NDF : 1447280.5/100

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -101.112 ± 1.282 χ^2/NDF : 390.6/8

Left Out: -50.897 ± 0.573 χ^2/NDF : 761.1/24

Right Out: -79.914 ± 0.900 χ^2/NDF : 3135.0/11

Left In: -49.432 ± 0.584 χ^2/NDF : 543.4/22

Left: -50.179 ± 0.409 χ^2/NDF : 1307.8/47

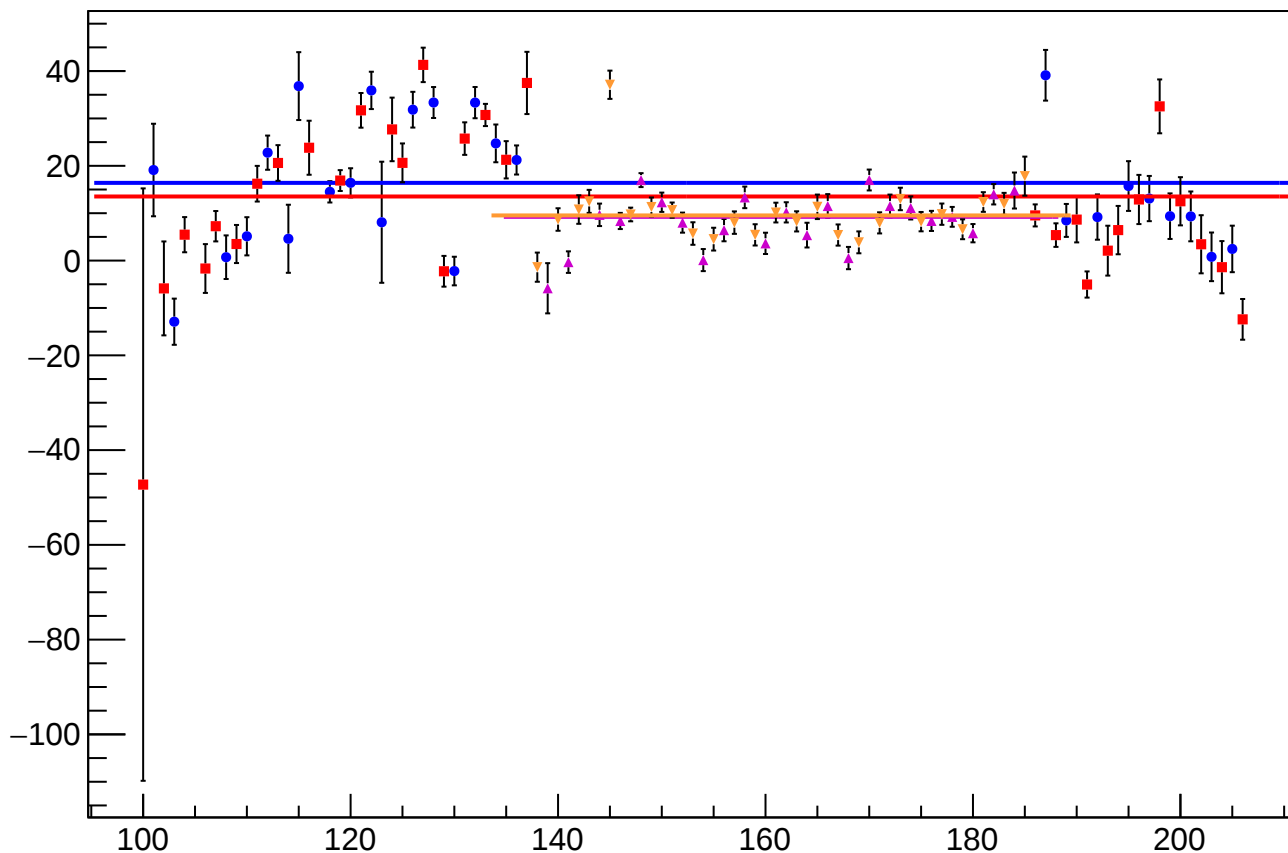
Right: -86.918 ± 0.737 χ^2/NDF : 3708.7/20

In: -58.314 ± 0.531 χ^2/NDF : 2280.3/31

Out: -59.257 ± 0.483 χ^2/NDF : 4635.5/36

All: -58.830 ± 0.358 χ^2/NDF : 6917.5/68

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.402 $\pm$ 0.794 χ^2 /NDF: 257.5/25

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 13.528 $\pm$ 0.681 χ^2 /NDF: 360.2/30

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

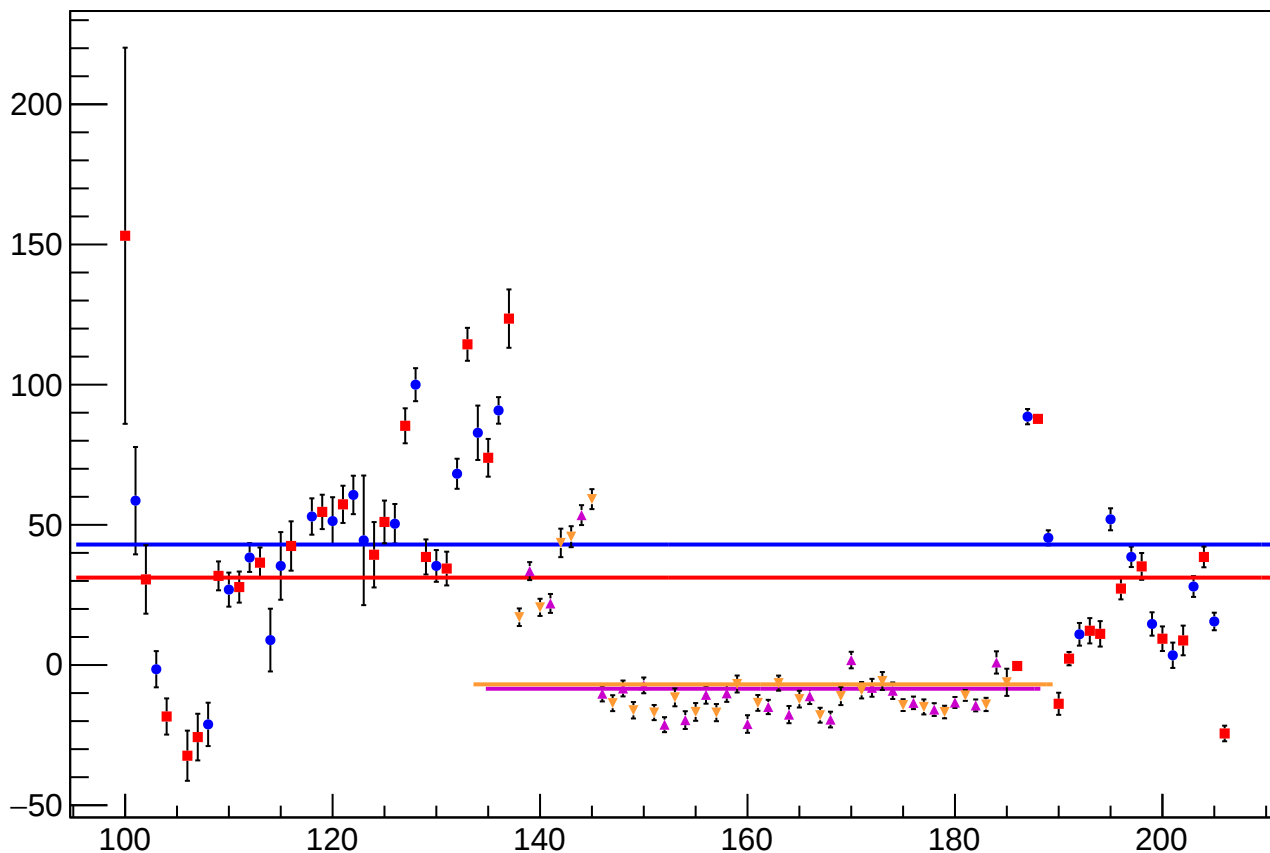
Right: 14.746 $\pm$ 0.517 χ^2 /NDF: 625.3/56

In: 11.042 $\pm$ 0.399 χ^2 /NDF:442.4/48

Out: 10.730 $\pm$ 0.373 χ^2 /NDF:518.7/55

All: 10.875 $\pm$ 0.273 χ^2 /NDF: 961.4/104

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 42.982 ± 0.949 $\chi^2/\text{NDF}: 947.9/25$

Left Out: -6.888 ± 0.571 $\chi^2/\text{NDF}: 914.2/24$

Right Out: 31.182 ± 0.698 $\chi^2/\text{NDF}: 3349.2/30$

Left In: -8.451 ± 0.580 $\chi^2/\text{NDF}: 688.9/22$

Left: -7.658 ± 0.407 $\chi^2/\text{NDF}: 1606.8/47$

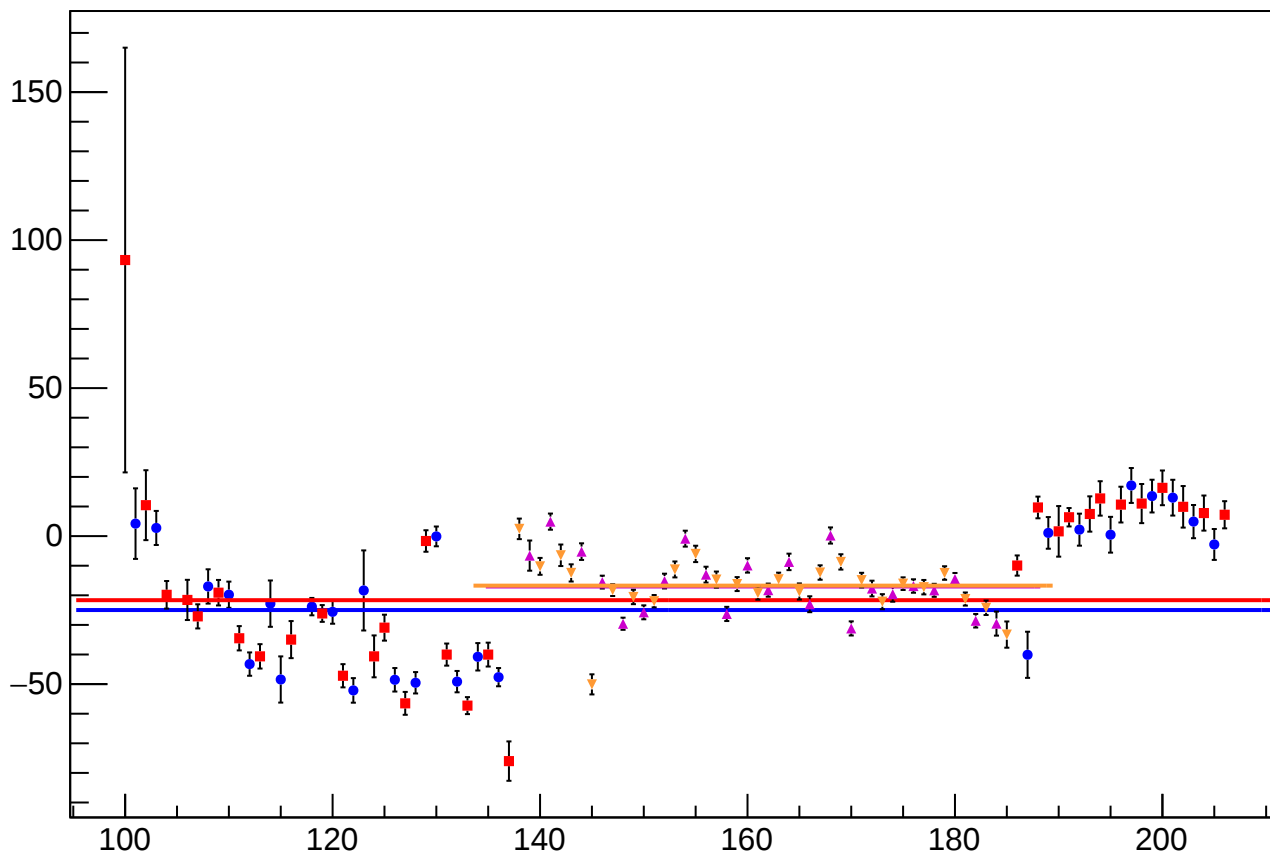
Right: 35.323 ± 0.562 $\chi^2/\text{NDF}: 4397.3/56$

In: 5.522 ± 0.495 $\chi^2/\text{NDF}: 3774.5/48$

Out: 8.372 ± 0.442 $\chi^2/\text{NDF}: 6045.4/55$

All: 7.107 ± 0.330 $\chi^2/\text{NDF}: 9838.3/104$

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.977 ± 0.918 $\chi^2/\text{NDF}: 609.5/25$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -21.645 ± 0.810 $\chi^2/\text{NDF}: 893.1/30$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

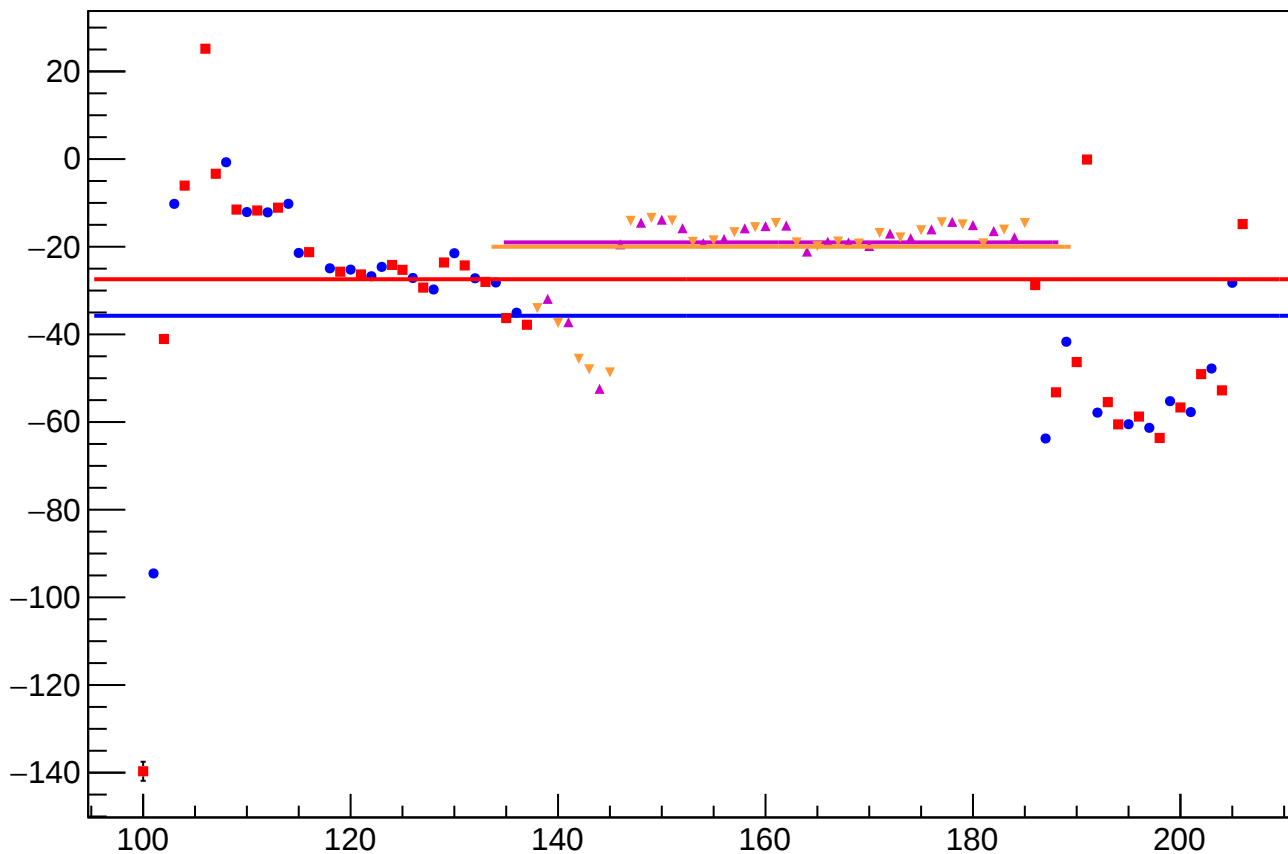
Right: -23.102 ± 0.607 $\chi^2/\text{NDF}: 1510.0/56$

In: -18.964 ± 0.454 $\chi^2/\text{NDF}: 993.8/48$

Out: -18.115 ± 0.430 $\chi^2/\text{NDF}: 1142.9/55$

All: -18.516 ± 0.312 $\chi^2/\text{NDF}: 2138.5/104$

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -35.753 ± 0.044 χ^2/NDF : 200939.3/25

Left Out: -20.006 ± 0.023 χ^2/NDF : 145623.8/24

Right Out: -27.419 ± 0.037 χ^2/NDF : 414211.5/30

Left In: -19.007 ± 0.024 χ^2/NDF : 90873.3/22

Left: -19.514 ± 0.017 χ^2/NDF : 237400.2/47

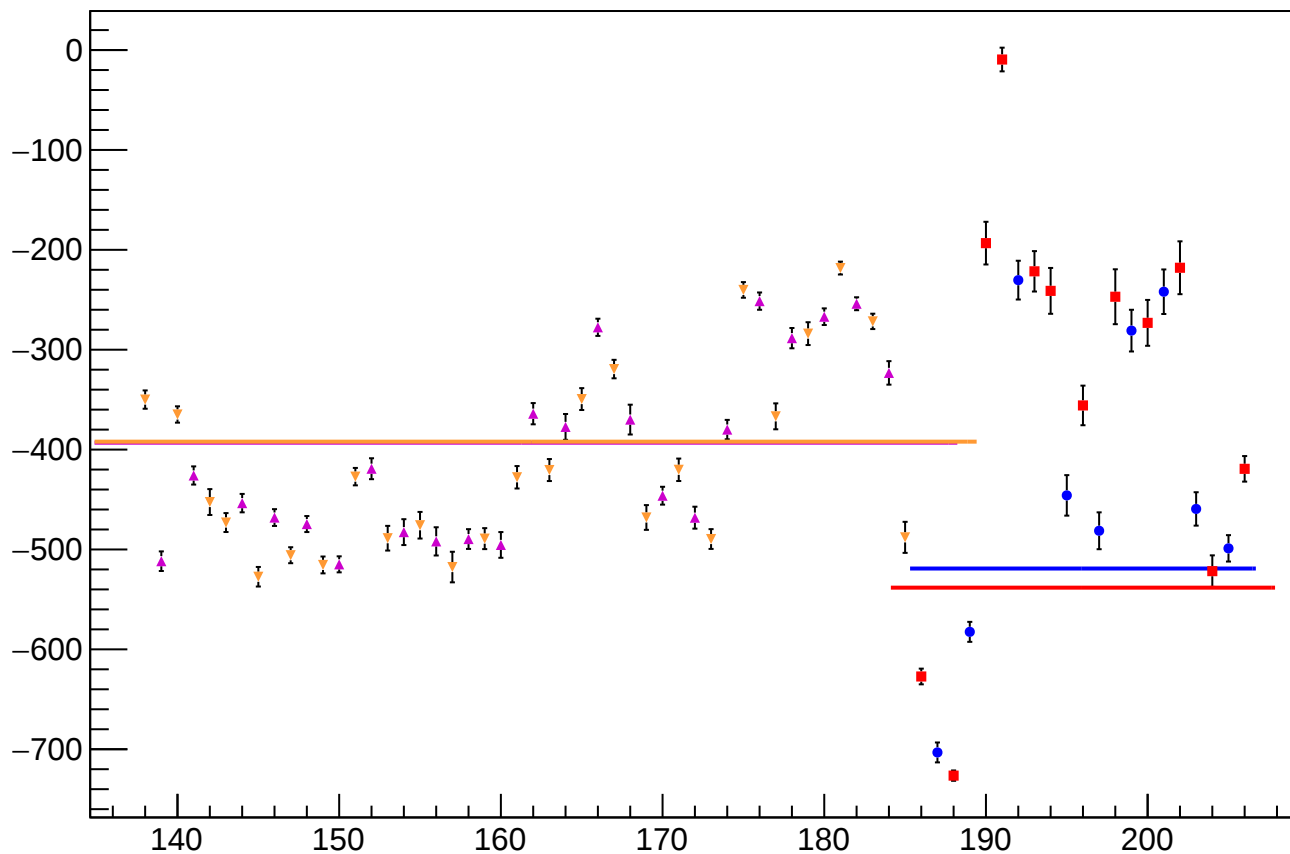
Right: -30.872 ± 0.028 χ^2/NDF : 636155.5/56

In: -22.766 ± 0.021 χ^2/NDF : 404110.9/48

Out: -22.109 ± 0.020 χ^2/NDF : 588567.7/55

All: -22.419 ± 0.014 χ^2/NDF : 993201.7/104

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -519.078 ± 4.897 χ^2/NDF : 919.8/8

Left Out: -392.054 ± 1.967 χ^2/NDF : 2717.2/24

Right Out: -538.229 ± 3.442 χ^2/NDF : 4675.0/11

Left In: -393.113 ± 2.006 χ^2/NDF : 2253.3/22

Left: -392.573 ± 1.404 χ^2/NDF : 4970.6/47

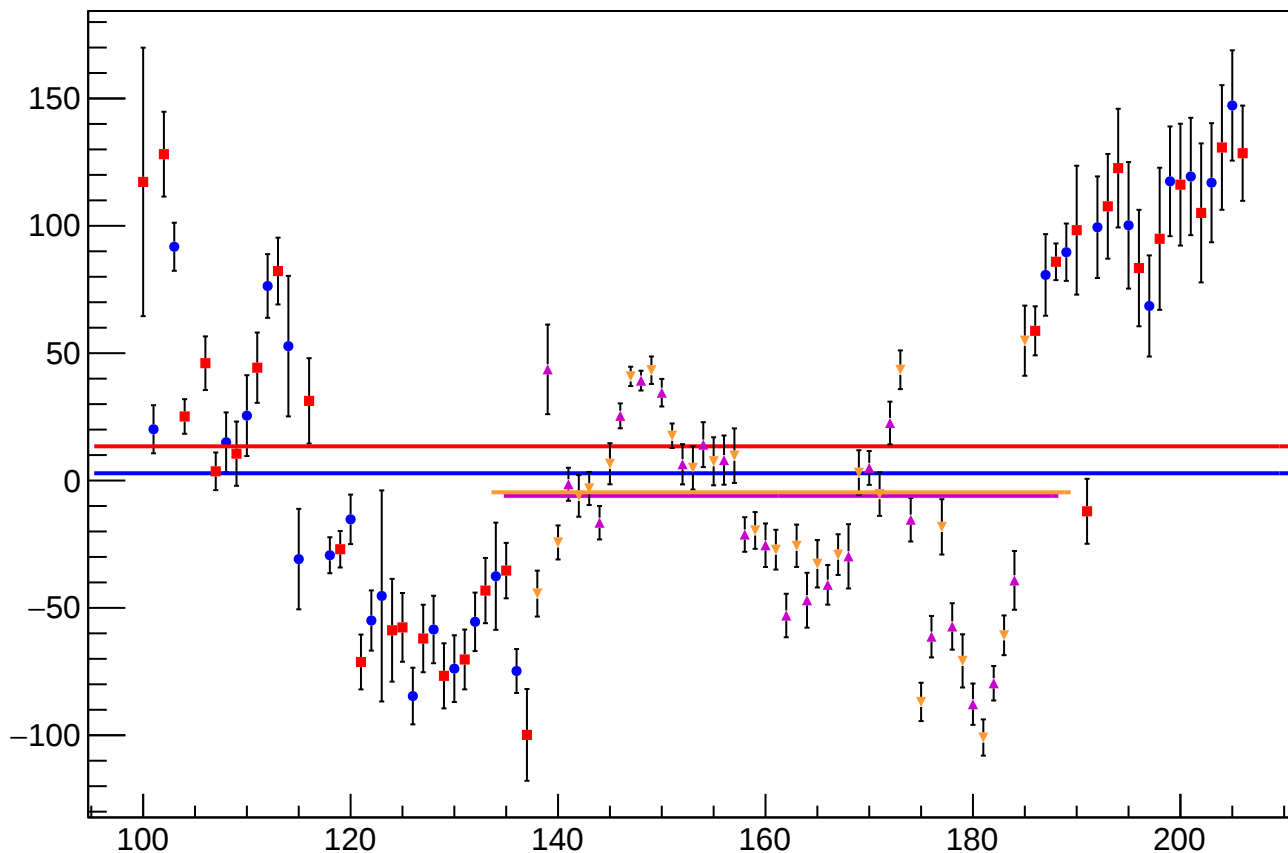
Right: -531.898 ± 2.816 χ^2/NDF : 5605.0/20

In: -411.204 ± 1.856 χ^2/NDF : 3739.6/31

Out: -428.032 ± 1.707 χ^2/NDF : 8752.0/36

All: -420.318 ± 1.257 χ^2/NDF : 12536.2/68

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.854 ± 2.567 χ^2/NDF : 668.6/25

Left Out: -4.624 ± 1.462 χ^2/NDF : 772.9/24

Right Out: 13.433 ± 2.239 χ^2/NDF : 736.1/30

Left In: -6.019 ± 1.516 χ^2/NDF : 654.1/22

Left: -5.296 ± 1.053 χ^2/NDF : 1427.4/47

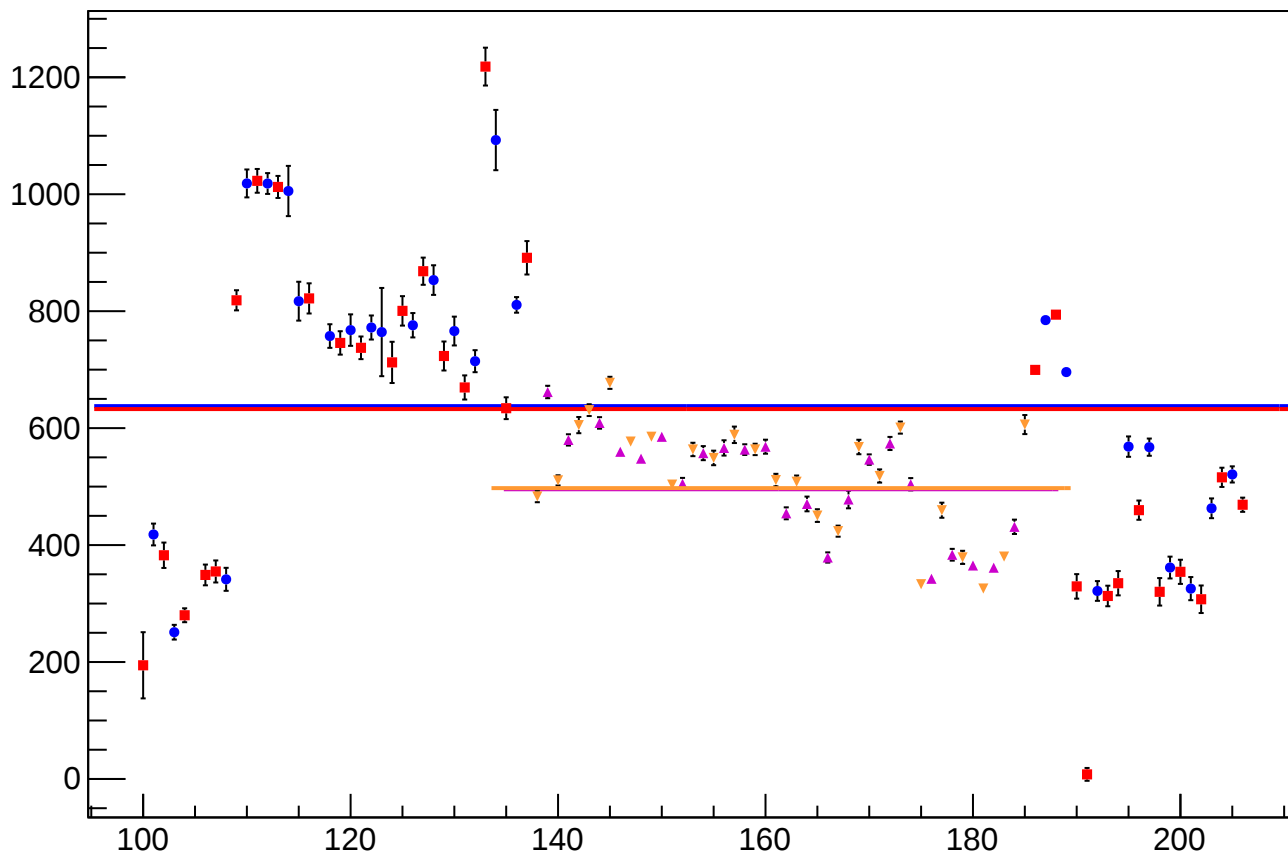
Right: 8.863 ± 1.687 χ^2/NDF : 1414.3/56

In: -3.724 ± 1.306 χ^2/NDF : 1331.5/48

Out: 0.774 ± 1.224 χ^2/NDF : 1554.6/55

All: -1.331 ± 0.893 χ^2/NDF : 2892.4/104

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 637.635 $\pm$ 3.265 χ^2 /NDF: 4040.4/25

Left Out: 497.381 $\pm$ 1.966 χ^2 /NDF:2614.6/24

Right Out: 632.592 $\pm$ 2.473 χ^2 /NDF: 9621.8/30

Left In: 495.454 $\pm$ 1.992 χ^2 /NDF:2253.8/22

Left: 496.430 $\pm$ 1.399 χ^2 /NDF: 4868.9/47

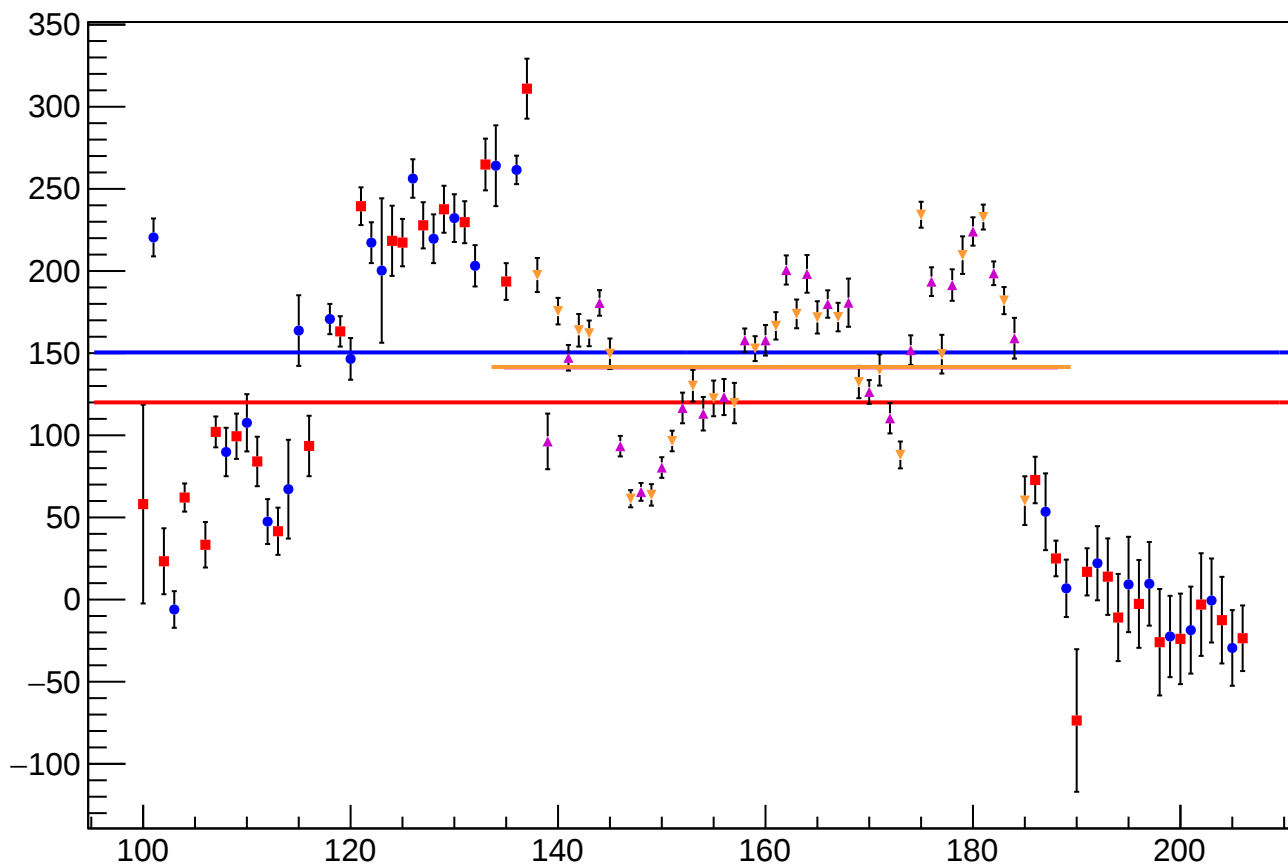
Right: 634.430 $\pm$ 1.971 χ^2 /NDF: 13663.7/56

In: 534.032 $\pm$ 1.701 χ^2 /NDF:7676.3/48

Out: 549.750 $\pm$ 1.539 χ^2 /NDF:14068.5/55

All: 542.674 $\pm$ 1.141 χ^2 /NDF: 21791.8/104

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 150.454 $\pm$ 2.999 χ^2 /NDF: 1051.9/25

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 120.026 $\pm$ 2.686 χ^2 /NDF: 1152.2/30

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

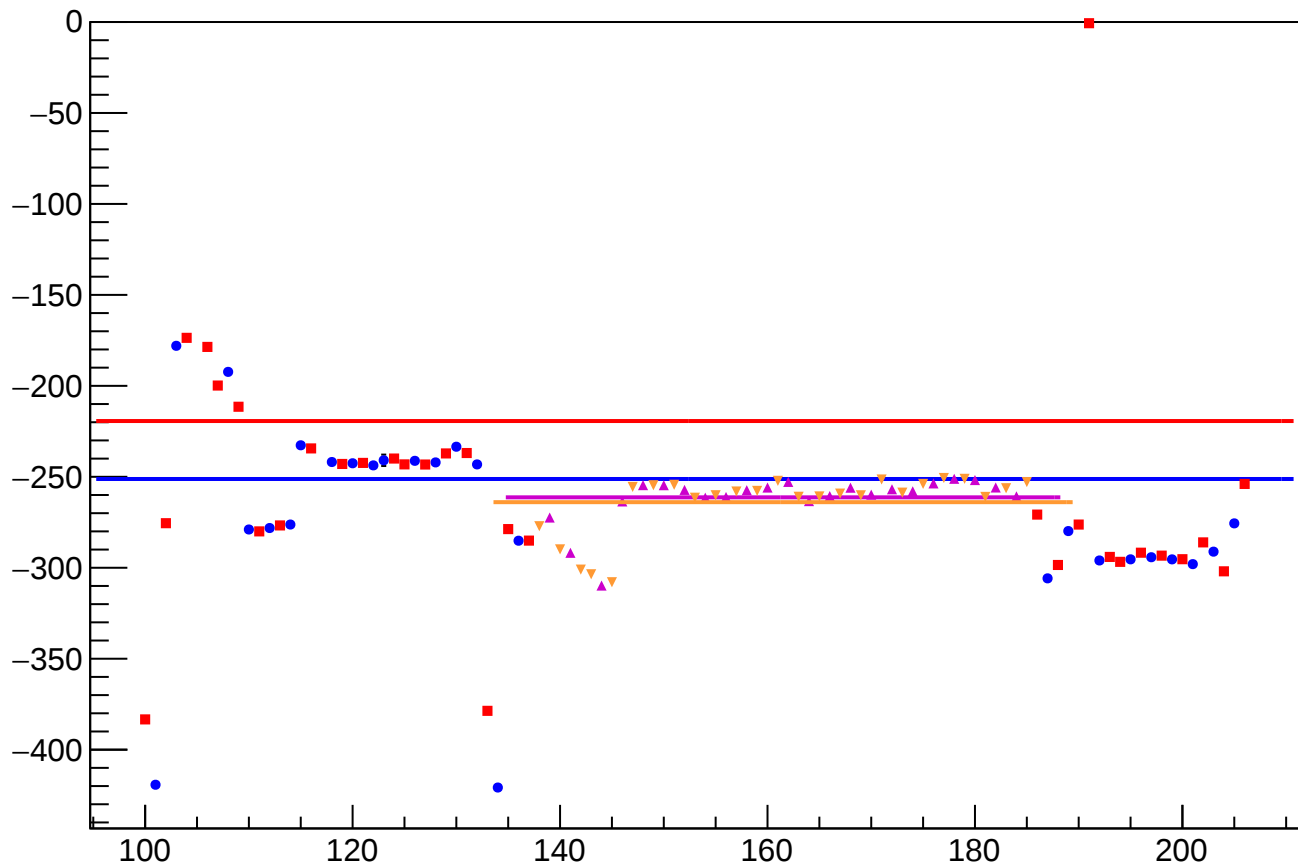
Right: 133.575 $\pm$ 2.001 χ^2 /NDF: 2261.3/56

In: 143.667 $\pm$ 1.510 χ^2 /NDF:1800.0/48

Out: 135.431 $\pm$ 1.436 χ^2 /NDF:2157.8/55

All: 139.341 $\pm$ 1.040 χ^2 /NDF: 3973.5/104

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -251.200 ± 0.140 $\chi^2/\text{NDF}: 195259.2/25$

Left Out: -263.943 ± 0.081 $\chi^2/\text{NDF}: 39085.0/24$

Right Out: -219.340 ± 0.123 $\chi^2/\text{NDF}: 492994.2/30$

Left In: -261.286 ± 0.082 $\chi^2/\text{NDF}: 23348.4/22$

Left: -262.627 ± 0.058 $\chi^2/\text{NDF}: 62963.4/47$

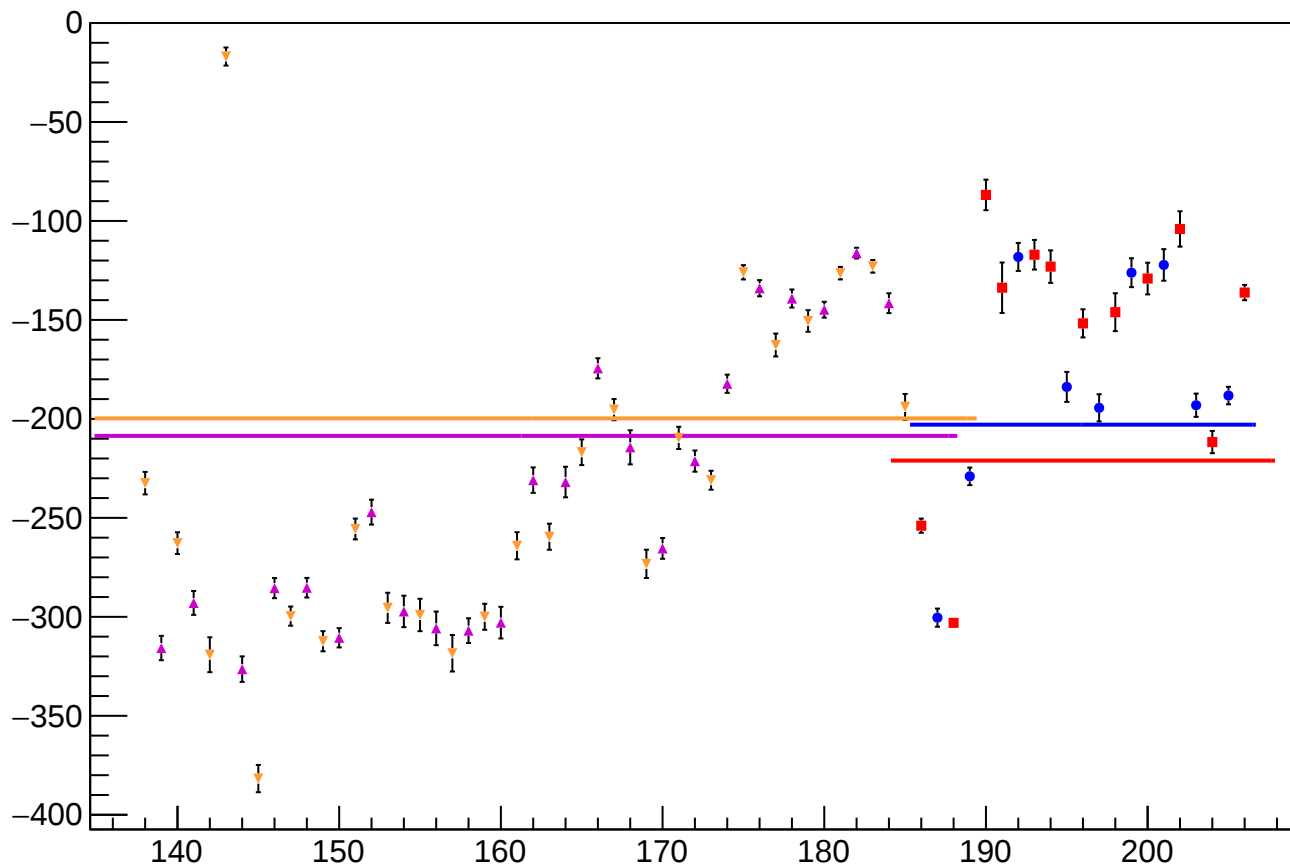
Right: -233.213 ± 0.092 $\chi^2/\text{NDF}: 717433.4/56$

In: -258.715 ± 0.071 $\chi^2/\text{NDF}: 222467.3/48$

Out: -250.405 ± 0.068 $\chi^2/\text{NDF}: 623558.1/55$

All: -254.383 ± 0.049 $\chi^2/\text{NDF}: 853216.0/104$

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -202.916+/-1.919 χ^2/NDF : 863.9/8

Left Out: -199.741+/-1.061 χ^2/NDF : 6361.5/24

Right Out: -221.069+/-1.461 χ^2/NDF : 2907.5/11

Left In: -208.579+/-1.082 χ^2/NDF : 4805.1/22

Left: -204.073+/-0.758 χ^2/NDF : 11200.6/47

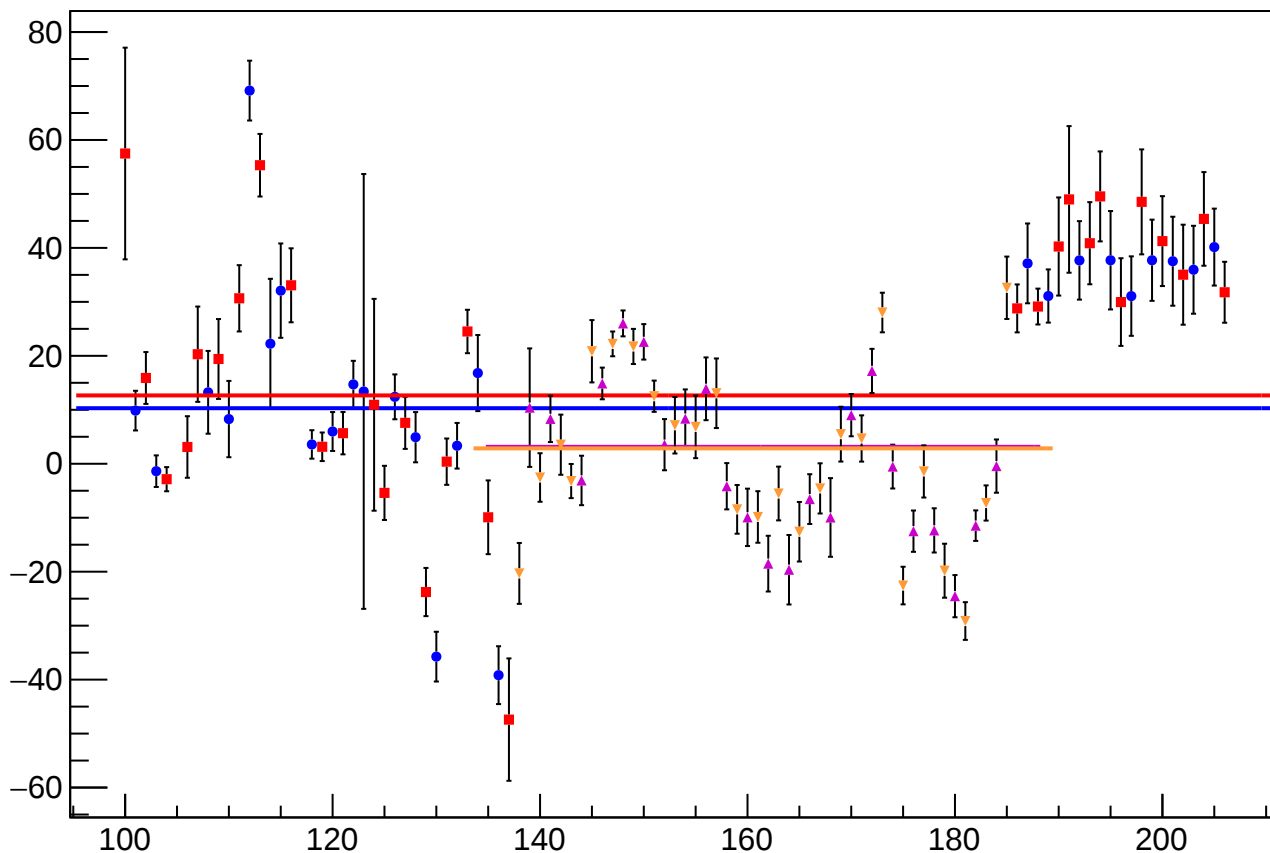
Right: -214.404+/-1.163 χ^2/NDF : 3828.1/20

In: -207.212+/-0.943 χ^2/NDF : 5675.7/31

Out: -207.103+/-0.859 χ^2/NDF : 9408.5/36

All: -207.153+/-0.635 χ^2/NDF : 15084.1/68

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.294+/-1.004 χ^2/NDF : 448.9/25

Left Out: 2.853+/-0.820 χ^2/NDF : 419.8/24

Right Out: 12.664+/-0.928 χ^2/NDF : 431.2/30

Left In: 3.136+/-0.857 χ^2/NDF : 319.8/22

Left: 2.988+/-0.592 χ^2/NDF : 739.7/47

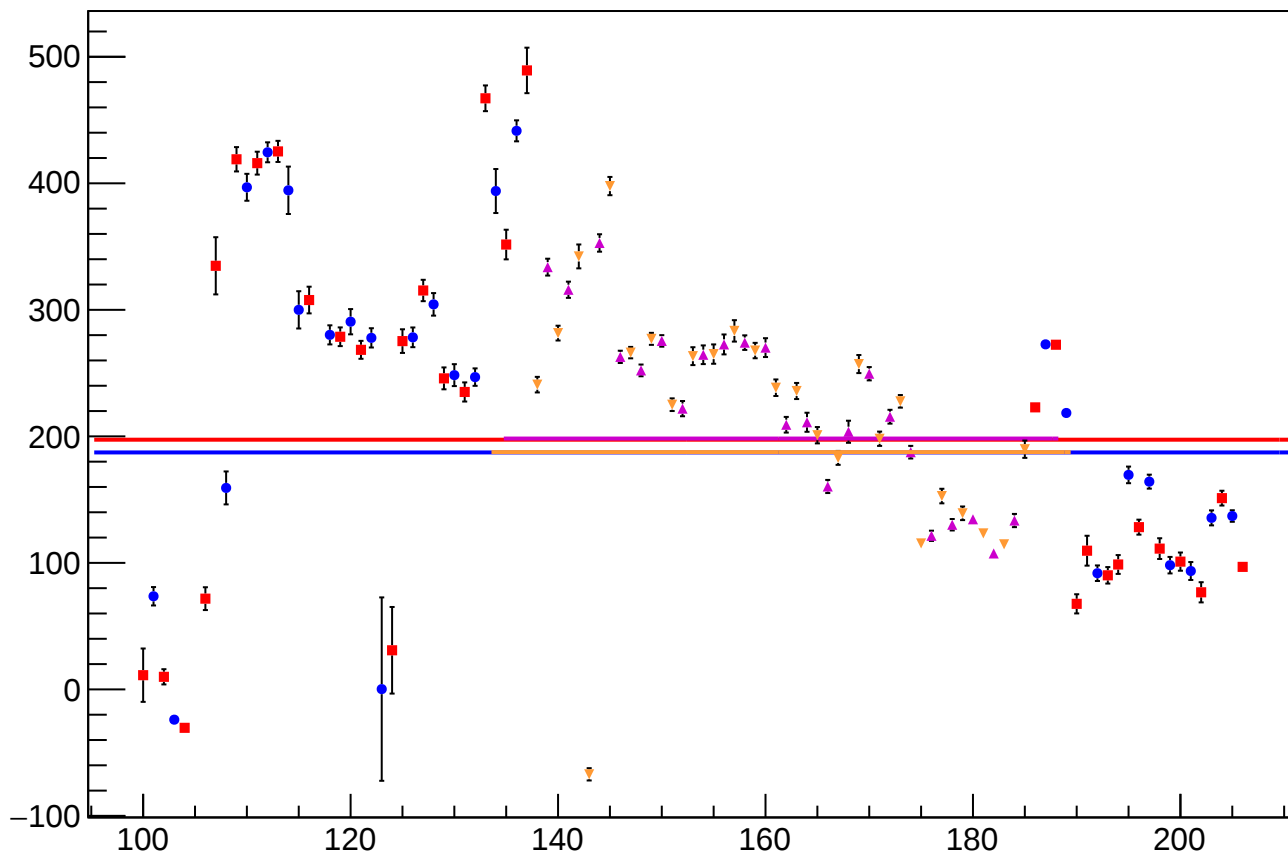
Right: 11.572+/-0.682 χ^2/NDF : 883.1/56

In: 6.151+/-0.652 χ^2/NDF : 798.1/48

Out: 7.152+/-0.615 χ^2/NDF : 913.8/55

All: 6.681+/-0.447 χ^2/NDF : 1713.1/104

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 187.293 $\pm$ 1.294 χ^2 /NDF: 8168.1/25

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF:7082.0/24

Right Out: 197.362 $\pm$ 1.046 χ^2 /NDF: 12130.9/30

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

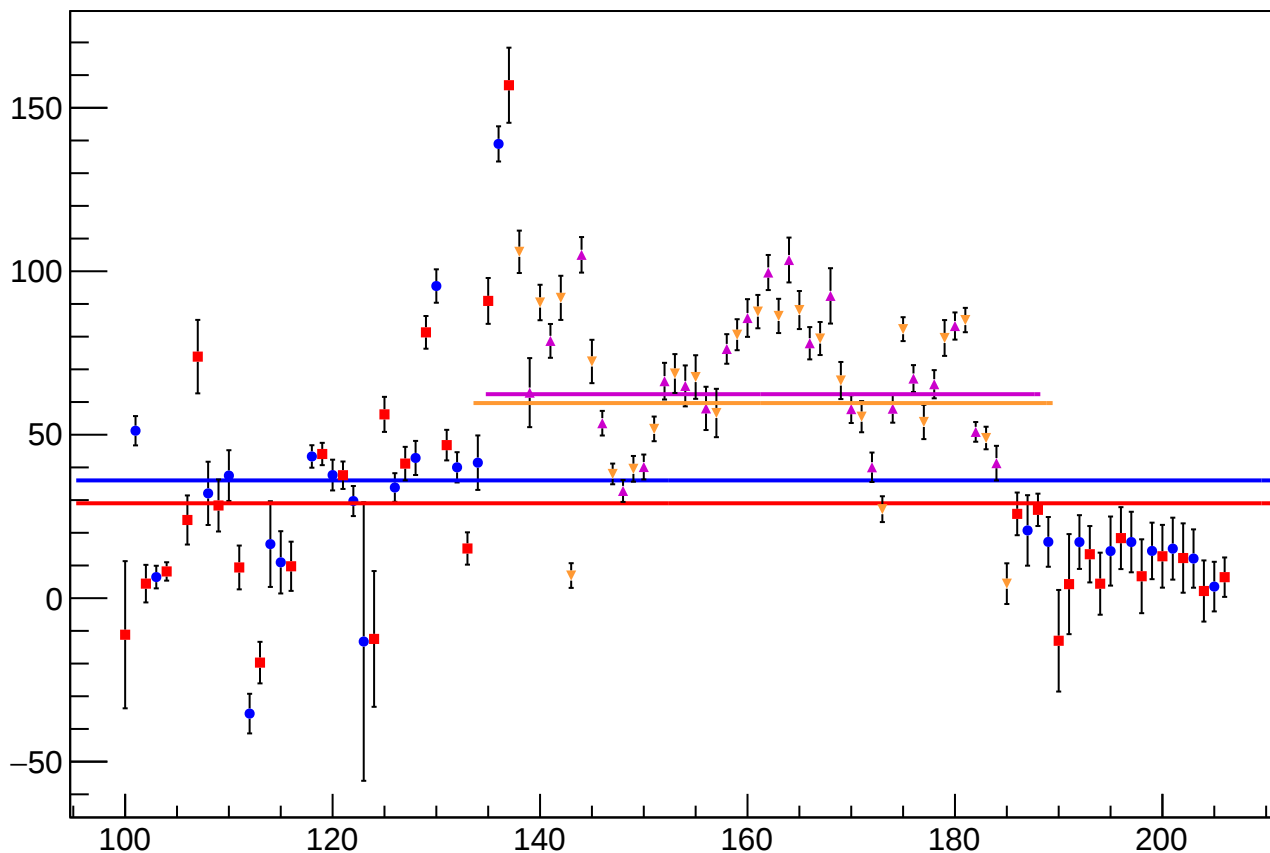
Right: 193.380 $\pm$ 0.814 χ^2 /NDF: 20335.6/56

In: 193.753 $\pm$ 0.830 χ^2 /NDF:12726.2/48

Out: 192.554 $\pm$ 0.747 χ^2 /NDF:19256.0/55

All: 193.091 $\pm$ 0.555 χ^2 /NDF: 31983.4/104

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.025 ± 1.178 $\chi^2/\text{NDF}: 802.8/25$

Left Out: 59.682 ± 0.941 $\chi^2/\text{NDF}: 757.6/24$

Right Out: 29.028 ± 1.109 $\chi^2/\text{NDF}: 612.5/30$

Left In: 62.400 ± 0.974 $\chi^2/\text{NDF}: 406.3/22$

Left: 60.993 ± 0.677 $\chi^2/\text{NDF}: 1167.9/47$

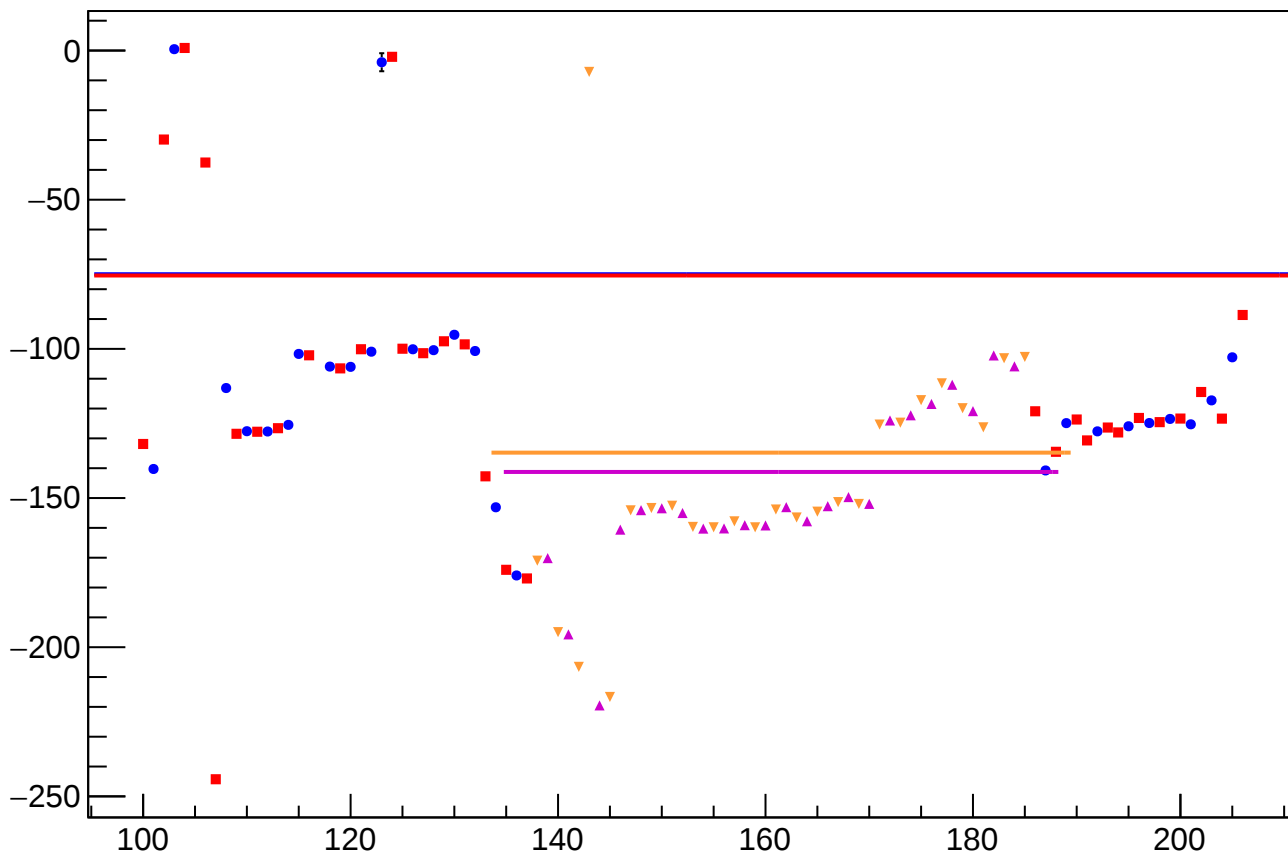
Right: 32.317 ± 0.808 $\chi^2/\text{NDF}: 1434.0/56$

In: 51.687 ± 0.751 $\chi^2/\text{NDF}: 1506.9/48$

Out: 46.861 ± 0.718 $\chi^2/\text{NDF}: 1814.2/55$

All: 49.165 ± 0.519 $\chi^2/\text{NDF}: 3342.6/104$

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -74.975 ± 0.053 $\chi^2/\text{NDF}: 1399116.7/25$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -75.405 ± 0.050 $\chi^2/\text{NDF}: 1395320.3/30$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

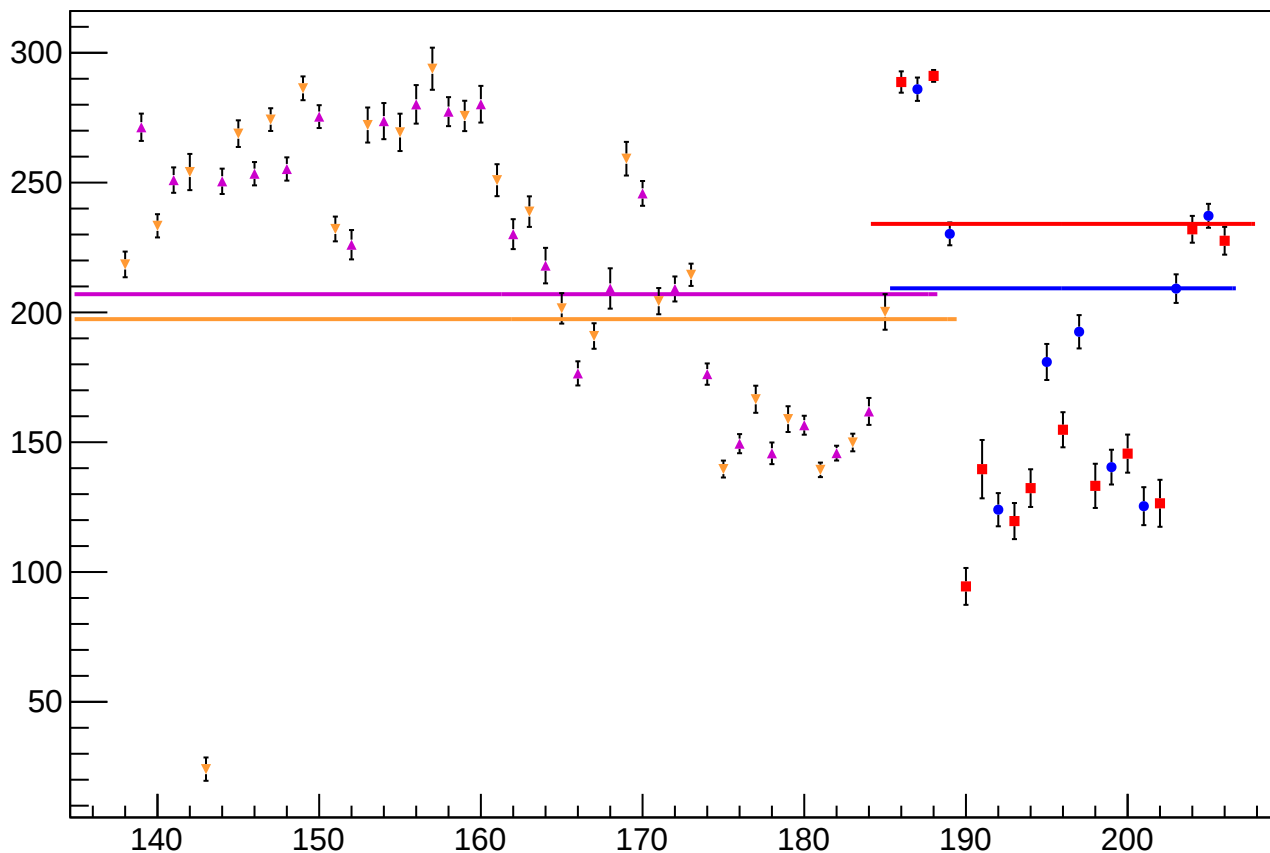
Right: -75.203 ± 0.036 $\chi^2/\text{NDF}: 2794471.8/56$

In: -113.304 ± 0.034 $\chi^2/\text{NDF}: 2649519.7/48$

Out: -108.434 ± 0.033 $\chi^2/\text{NDF}: 2989905.3/55$

All: -110.779 ± 0.024 $\chi^2/\text{NDF}: 5649787.2/100$

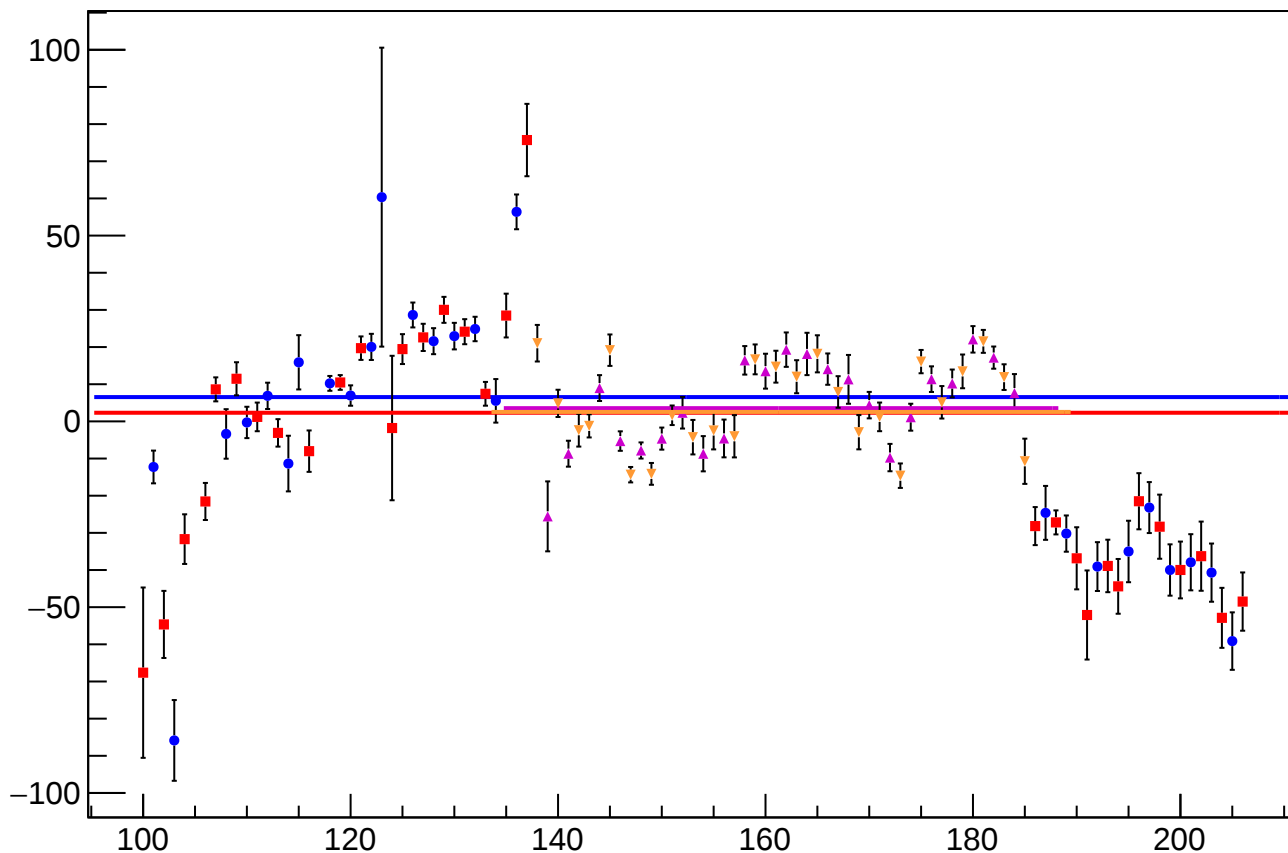
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 209.280 $\pm$ 1.852 χ^2 /NDF: 788.8/8
 Left Out: 197.408 $\pm$ 0.963 χ^2 /NDF:4384.2/24
 Right Out: 234.097 $\pm$ 1.478 χ^2 /NDF: 2293.7/11
 Left In: 207.014 $\pm$ 0.990 χ^2 /NDF:2611.5/22

Left: 202.077 $\pm$ 0.690 χ^2 /NDF: 7044.1/47
 Right: 224.442 $\pm$ 1.155 χ^2 /NDF: 3192.2/20
 In: 207.518 $\pm$ 0.873 χ^2 /NDF:3401.5/31
 Out: 208.343 $\pm$ 0.807 χ^2 /NDF:7110.6/36
 All: 207.963 $\pm$ 0.593 χ^2 /NDF: 10512.6/68

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.539 ± 0.868 $\chi^2/\text{NDF}: 706.2/25$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: 2.322 ± 0.822 $\chi^2/\text{NDF}: 786.1/30$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

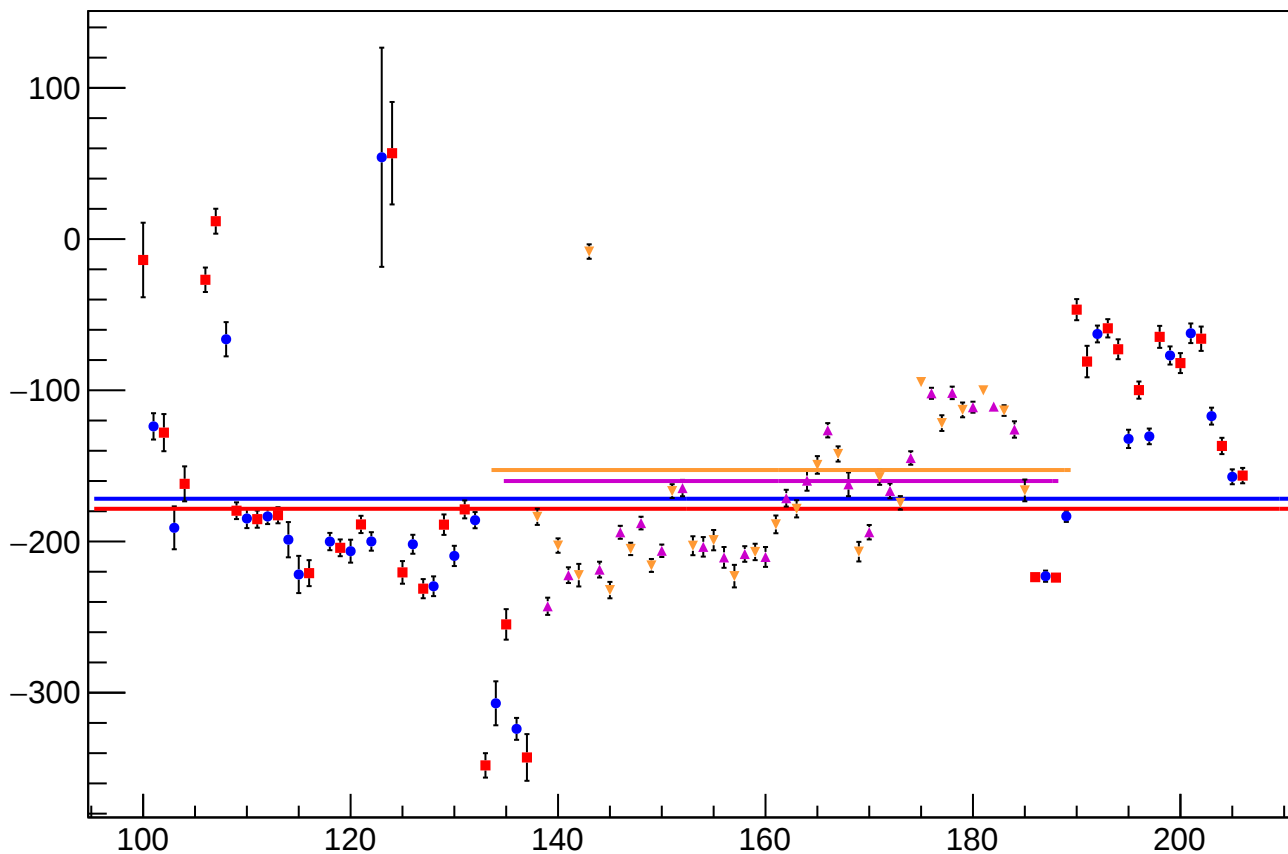
Right: 4.316 ± 0.597 $\chi^2/\text{NDF}: 1504.7/56$

In: 4.879 ± 0.578 $\chi^2/\text{NDF}: 904.7/48$

Out: 2.446 ± 0.550 $\chi^2/\text{NDF}: 1061.6/55$

All: 3.604 ± 0.398 $\chi^2/\text{NDF}: 1975.6/104$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.733 ± 1.216 $\chi^2/\text{NDF}: 2225.5/25$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -178.379 ± 1.012 $\chi^2/\text{NDF}: 4578.3/30$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

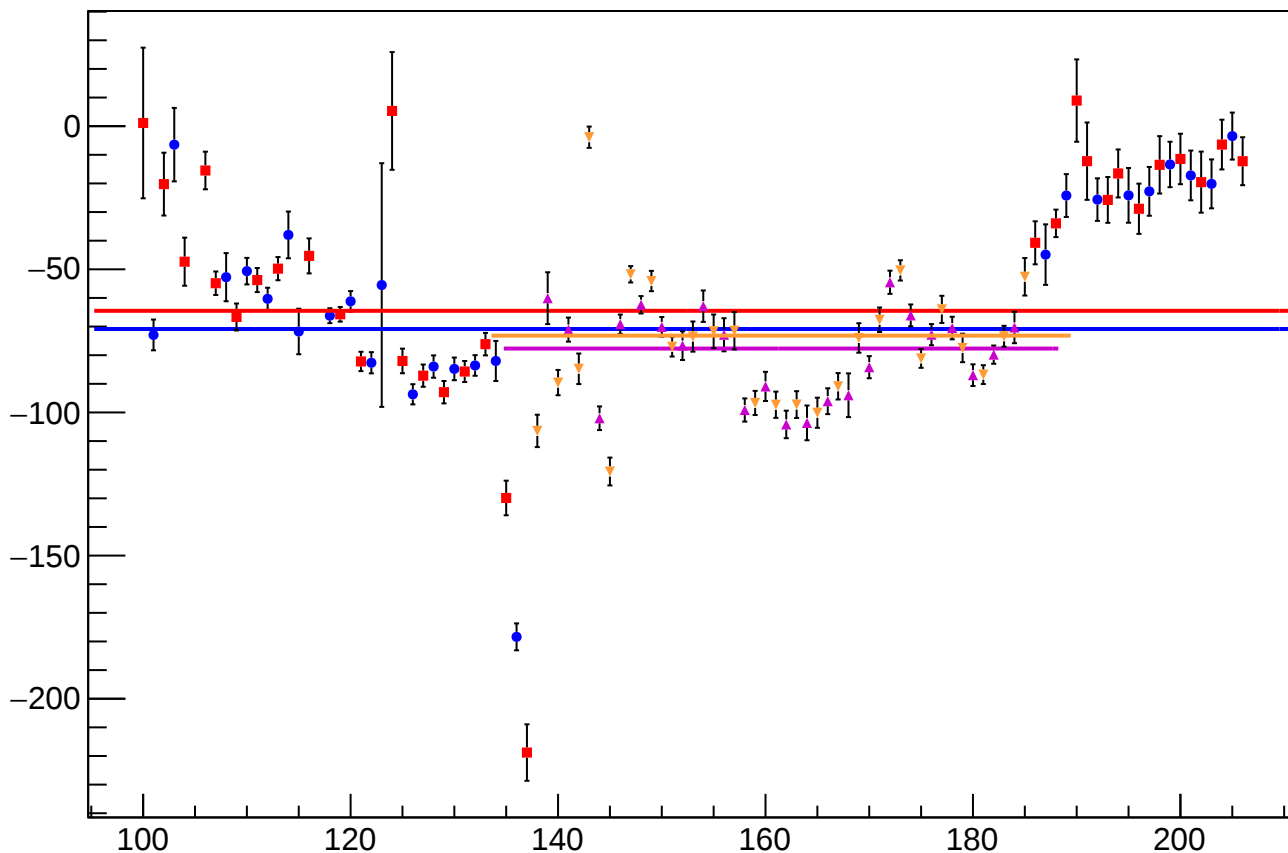
Right: -175.659 ± 0.778 $\chi^2/\text{NDF}: 6821.5/56$

In: -164.681 ± 0.767 $\chi^2/\text{NDF}: 4305.8/48$

Out: -164.970 ± 0.699 $\chi^2/\text{NDF}: 7991.5/55$

All: -164.839 ± 0.517 $\chi^2/\text{NDF}: 12297.4/104$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -70.846 ± 1.011 χ^2/NDF : 1028.2/25

Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24

Right Out: -64.494 ± 0.965 χ^2/NDF : 991.4/30

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

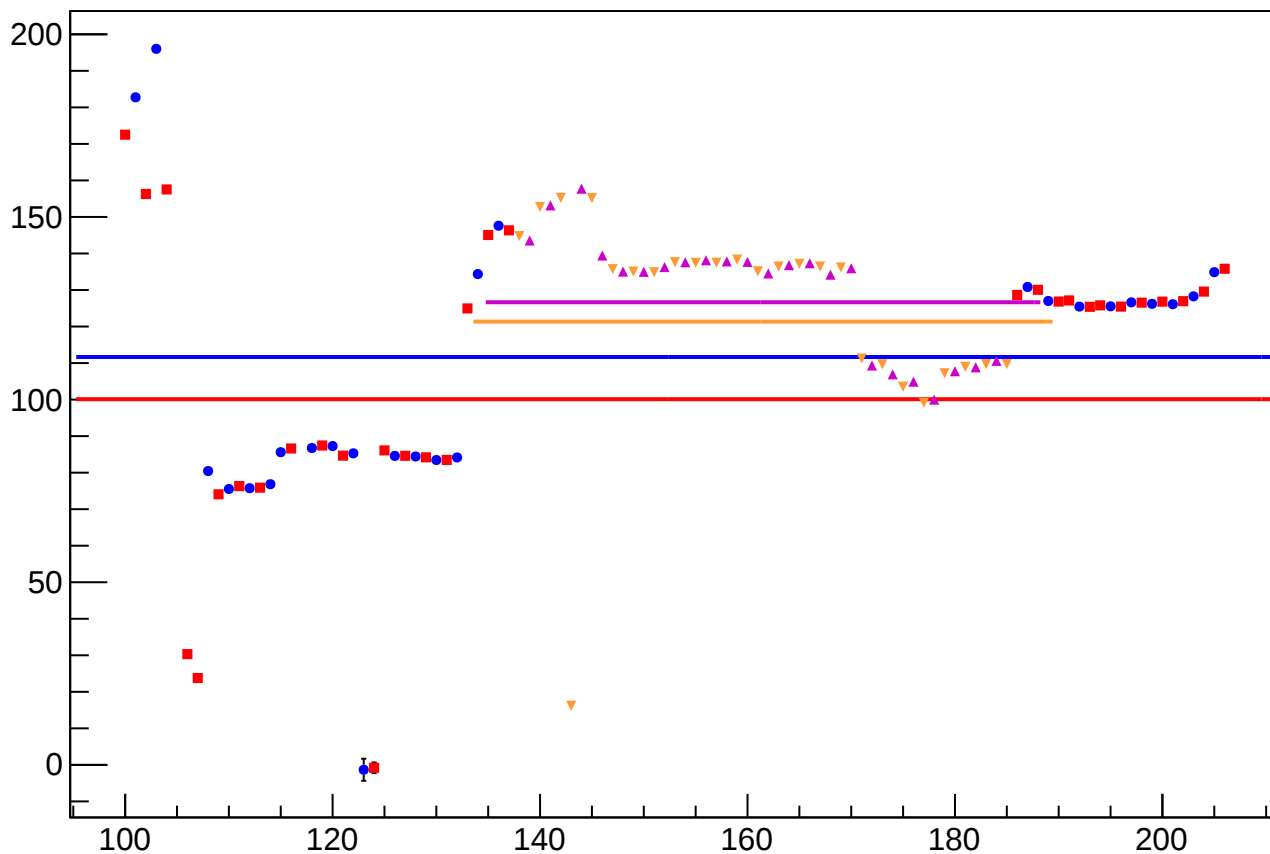
Right: -67.522 ± 0.698 χ^2/NDF : 2040.2/56

In: -74.722 ± 0.665 χ^2/NDF : 1302.4/48

Out: -69.370 ± 0.638 χ^2/NDF : 1825.4/55

All: -71.937 ± 0.460 χ^2/NDF : 3161.5/104

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 111.659+/-0.057 χ^2/NDF : 310877.3/25

Left Out: 121.356+/-0.040 χ^2/NDF : 481977.3/24

Right Out: 100.111+/-0.051 χ^2/NDF : 581070.5/30

Left In: 126.653+/-0.041 χ^2/NDF : 163046.1/22

Left: 123.954+/-0.029 χ^2/NDF : 653496.6/47

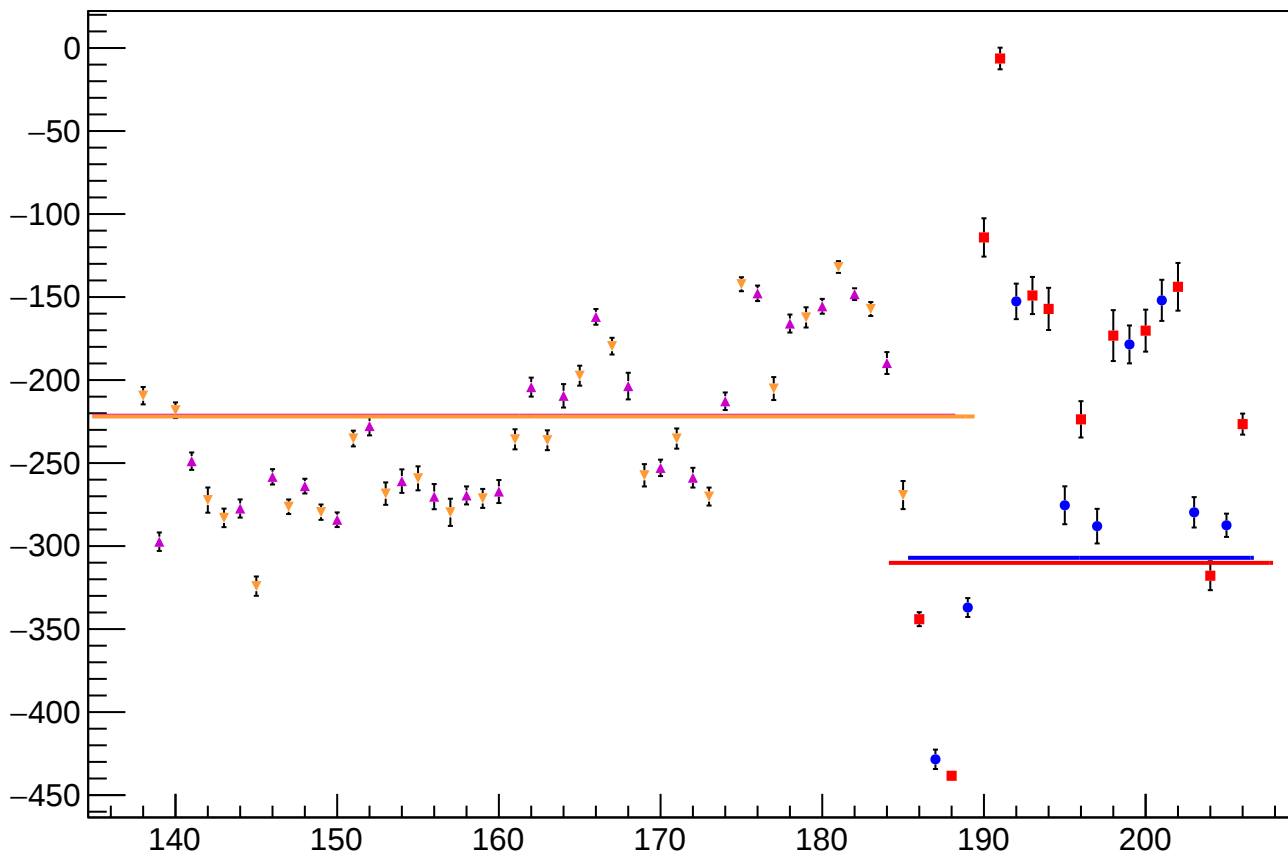
Right: 105.248+/-0.038 χ^2/NDF : 914472.8/56

In: 121.567+/-0.033 χ^2/NDF : 519114.5/48

Out: 113.251+/-0.032 χ^2/NDF : 1169047.2/55

All: 117.193+/-0.023 χ^2/NDF : 1720790.7/104

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -307.066 ± 2.748 χ^2/NDF : 980.6/8

Left Out: -221.934 ± 1.084 χ^2/NDF : 2578.4/24

Right Out: -310.107 ± 1.917 χ^2/NDF : 5234.4/11

Left In: -221.483 ± 1.102 χ^2/NDF : 2149.8/22

Left: -221.712 ± 0.773 χ^2/NDF : 4728.2/47

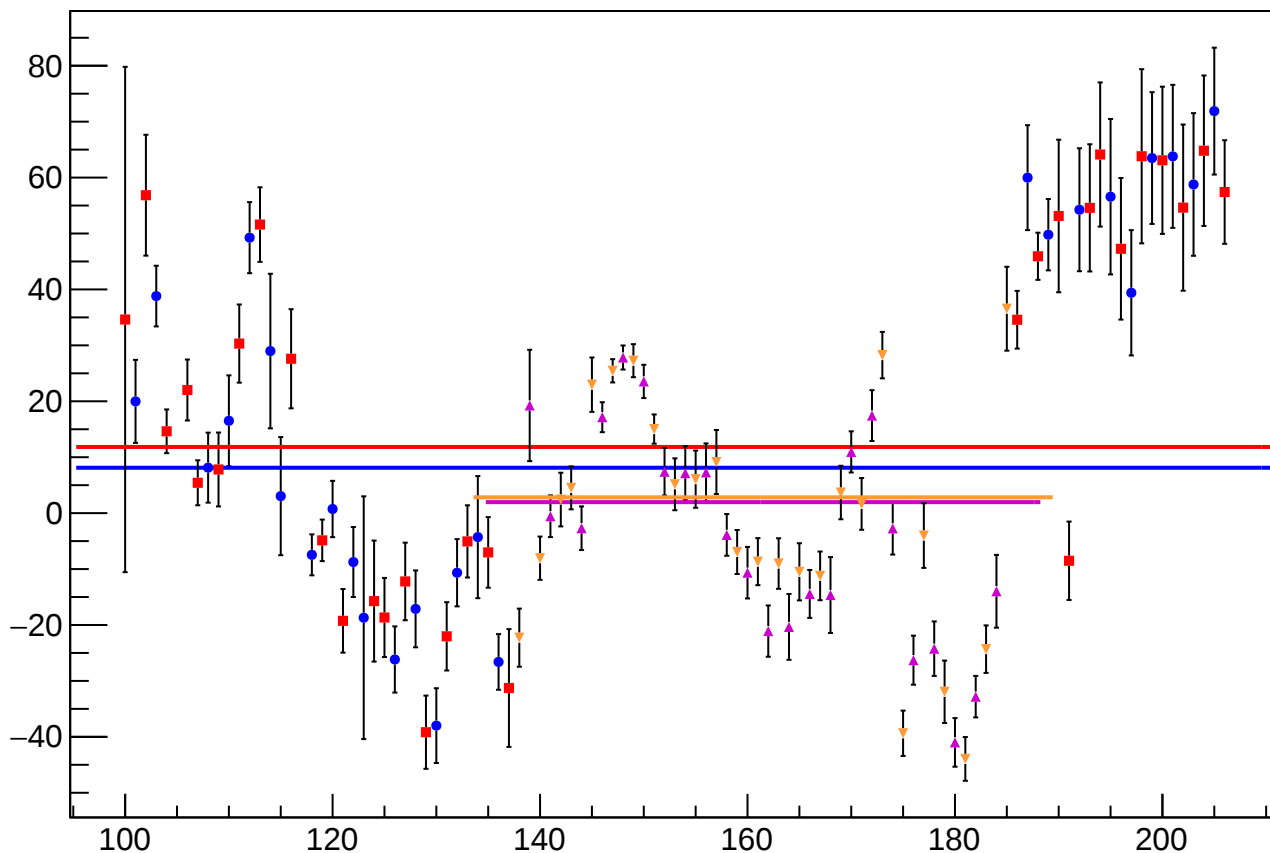
Right: -309.111 ± 1.573 χ^2/NDF : 6215.8/20

In: -233.341 ± 1.023 χ^2/NDF : 3965.7/31

Out: -243.303 ± 0.944 χ^2/NDF : 9414.9/36

All: -238.722 ± 0.694 χ^2/NDF : 13431.9/68

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.119 ± 1.405 χ^2/NDF : 462.7/25

Left Out: 2.832 ± 0.807 χ^2/NDF : 686.9/24

Right Out: 11.835 ± 1.212 χ^2/NDF : 496.6/30

Left In: 1.969 ± 0.835 χ^2/NDF : 589.1/22

Left: 2.415 ± 0.580 χ^2/NDF : 1276.5/47

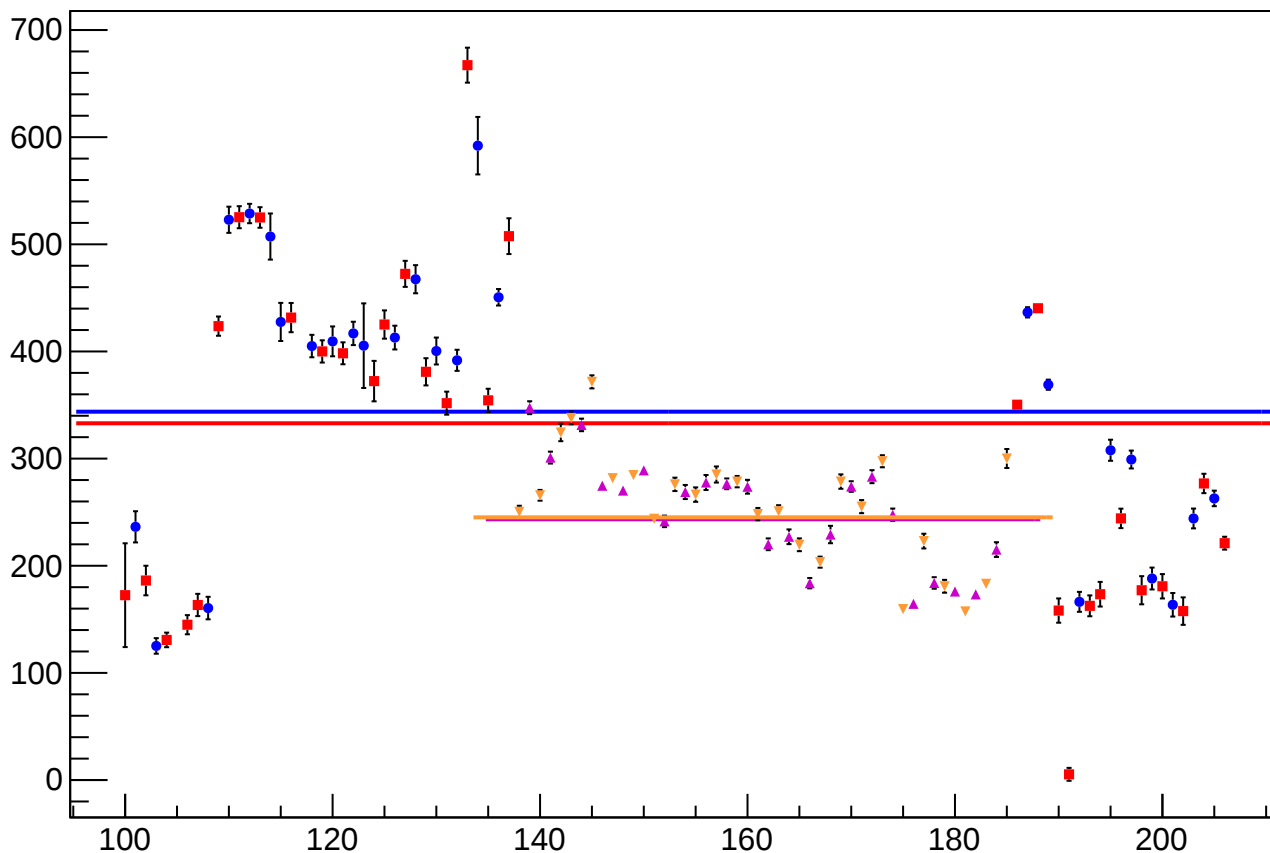
Right: 10.249 ± 0.918 χ^2/NDF : 963.3/56

In: 3.573 ± 0.718 χ^2/NDF : 1065.9/48

Out: 5.597 ± 0.672 χ^2/NDF : 1221.7/55

All: 4.652 ± 0.490 χ^2/NDF : 2291.9/104

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 343.791 ± 1.820 $\chi^2/\text{NDF}: 4081.3/25$

Left Out: 245.179 ± 1.082 $\chi^2/\text{NDF}: 2597.4/24$

Right Out: 332.970 ± 1.369 $\chi^2/\text{NDF}: 10067.3/30$

Left In: 243.366 ± 1.094 $\chi^2/\text{NDF}: 2236.7/22$

Left: 244.282 ± 0.769 $\chi^2/\text{NDF}: 4835.5/47$

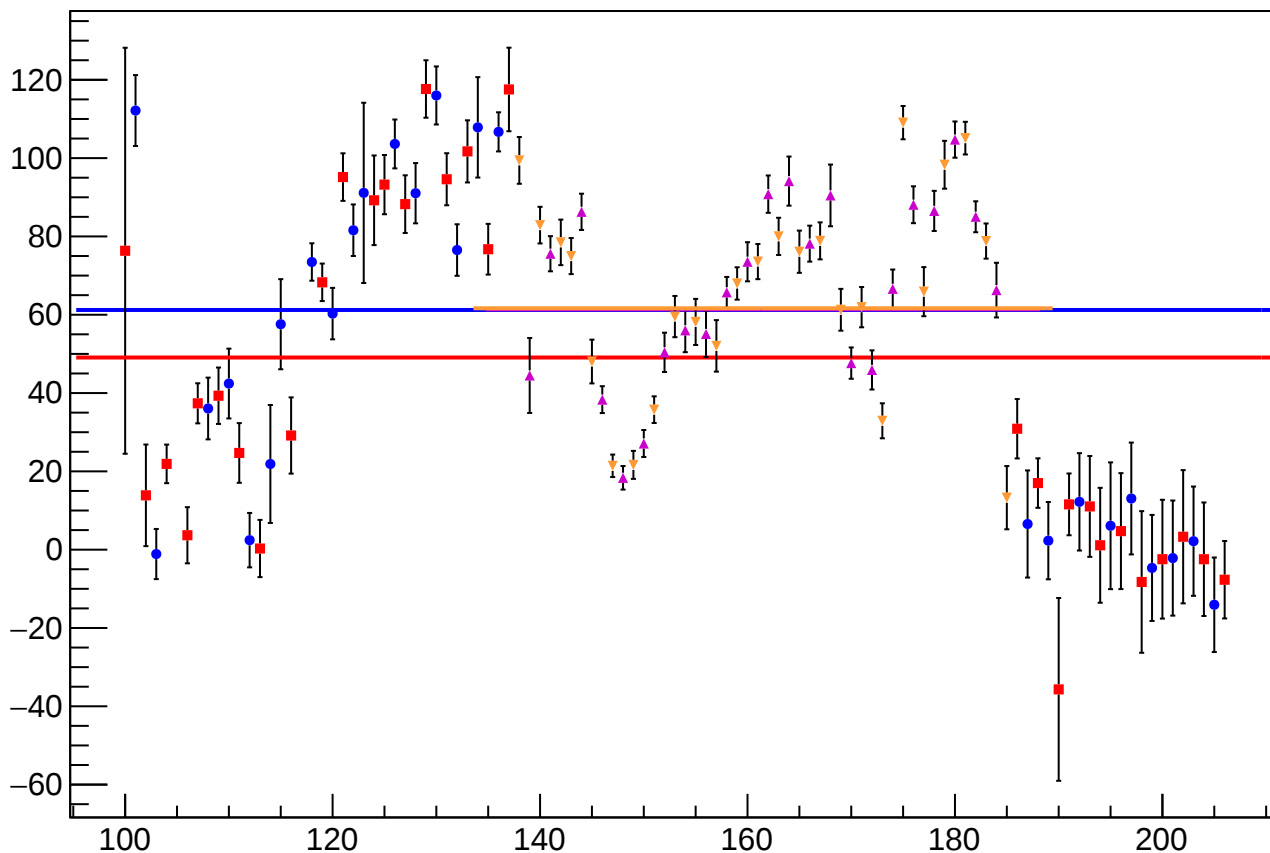
Right: 336.879 ± 1.094 $\chi^2/\text{NDF}: 14171.1/56$

In: 270.001 ± 0.937 $\chi^2/\text{NDF}: 8554.4/48$

Out: 278.942 ± 0.849 $\chi^2/\text{NDF}: 15196.4/55$

All: 274.914 ± 0.629 $\chi^2/\text{NDF}: 23800.8/104$

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 61.219+/-1.638 χ^2/NDF : 643.9/25

Left Out: 61.647+/-0.936 χ^2/NDF : 871.5/24

Right Out: 49.077+/-1.449 χ^2/NDF : 700.2/30

Left In: 61.375+/-0.961 χ^2/NDF : 699.7/22

Left: 61.515+/-0.671 χ^2/NDF : 1571.3/47

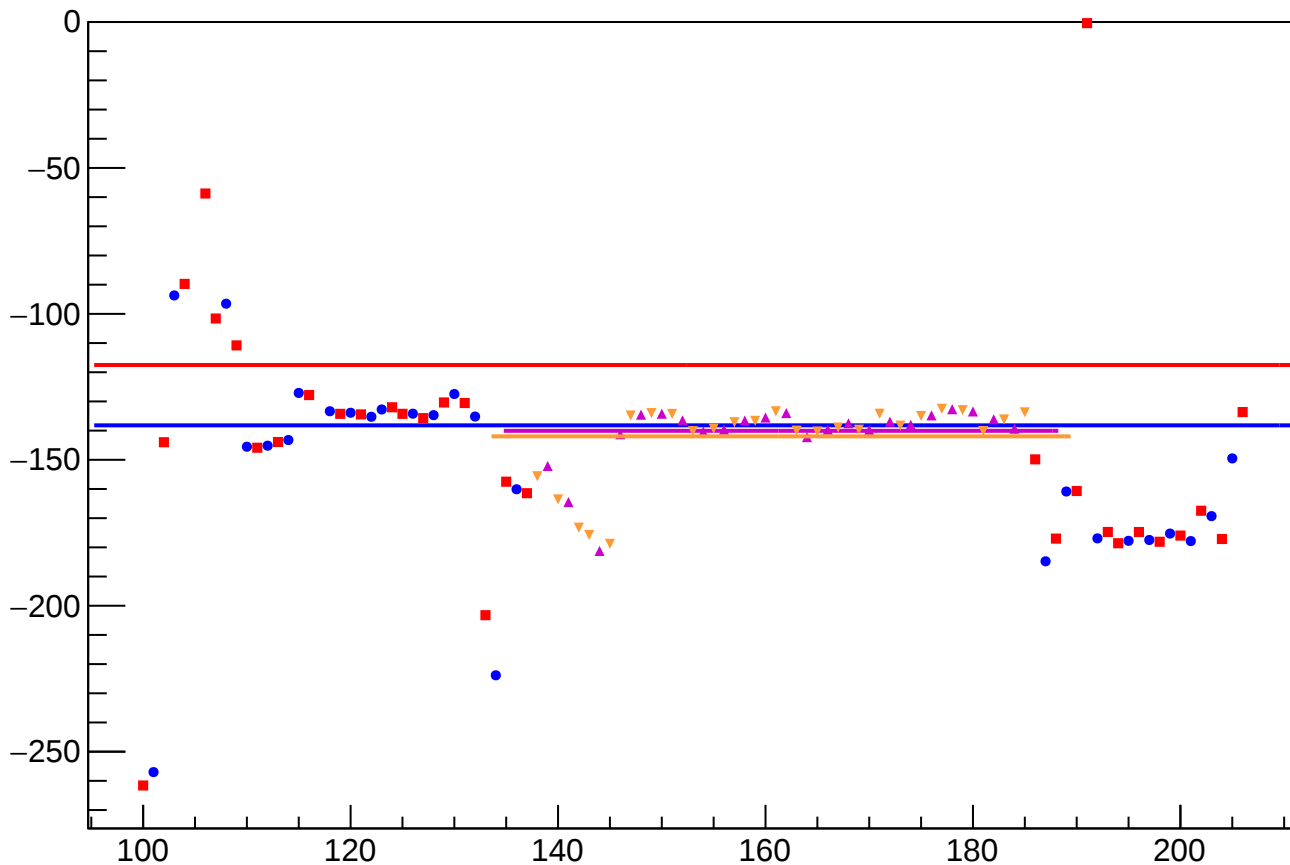
Right: 54.408+/-1.085 χ^2/NDF : 1375.0/56

In: 61.335+/-0.829 χ^2/NDF : 1343.6/48

Out: 57.946+/-0.786 χ^2/NDF : 1624.9/55

All: 59.551+/-0.570 χ^2/NDF : 2977.2/104

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -138.193 ± 0.078 $\chi^2/\text{NDF}: 233021.3/25$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -117.522 ± 0.067 $\chi^2/\text{NDF}: 608697.7/30$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

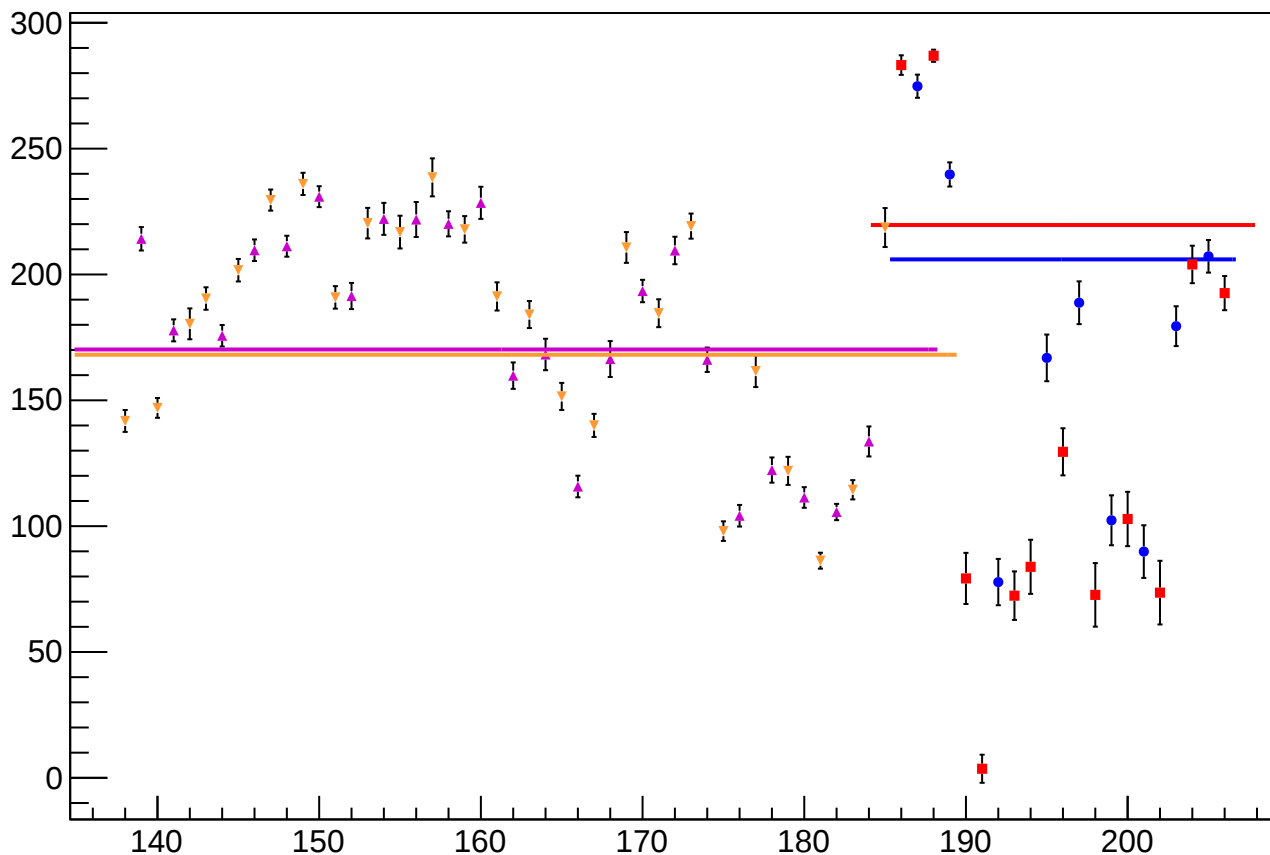
Right: -126.360 ± 0.051 $\chi^2/\text{NDF}: 881867.2/56$

In: -139.600 ± 0.039 $\chi^2/\text{NDF}: 281485.4/48$

Out: -134.509 ± 0.037 $\chi^2/\text{NDF}: 780215.3/55$

All: -136.940 ± 0.027 $\chi^2/\text{NDF}: 1070611.5/10$

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Left: 169.125 $\pm$ 0.695 χ^2/NDF : 4495.5/47

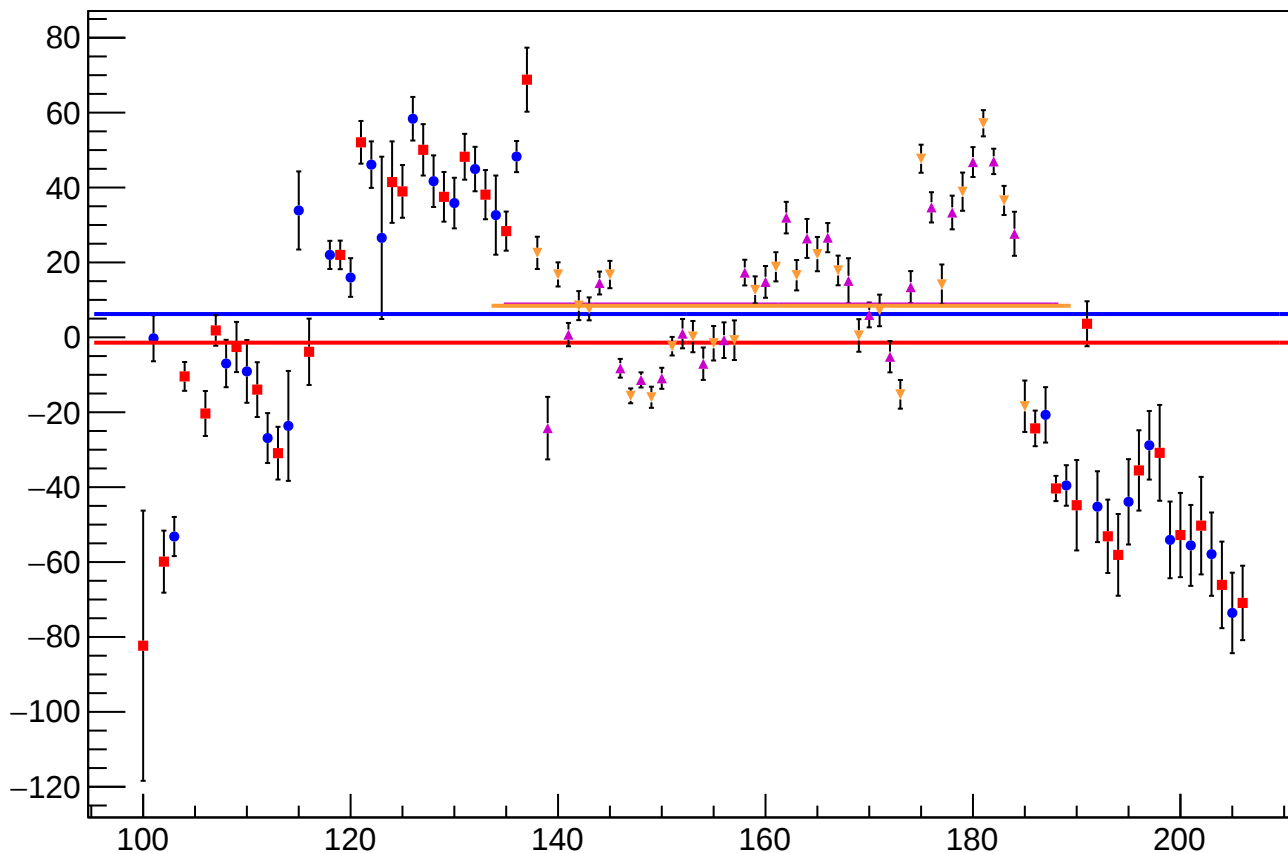
Right: 215.078 $\pm$ 1.338 χ^2/NDF : 4381.7/20

In: 175.792 $\pm$ 0.914 χ^2/NDF : 2959.0/31

Out: 181.467 $\pm$ 0.835 χ^2/NDF : 6826.3/36

All: 178.886 $\pm$ 0.617 χ^2/NDF : 9806.4/68

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.223 $\pm$ 1.335 χ^2 /NDF: 818.2/25

Left Out: 8.436 $\pm$ 0.728 χ^2 /NDF: 752.0/24

Right Out: -1.420 $\pm$ 1.156 χ^2 /NDF: 914.1/30

Left In: 8.769 $\pm$ 0.758 χ^2 /NDF: 626.8/22

Left: 8.596 $\pm$ 0.525 χ^2 /NDF: 1379.0/47

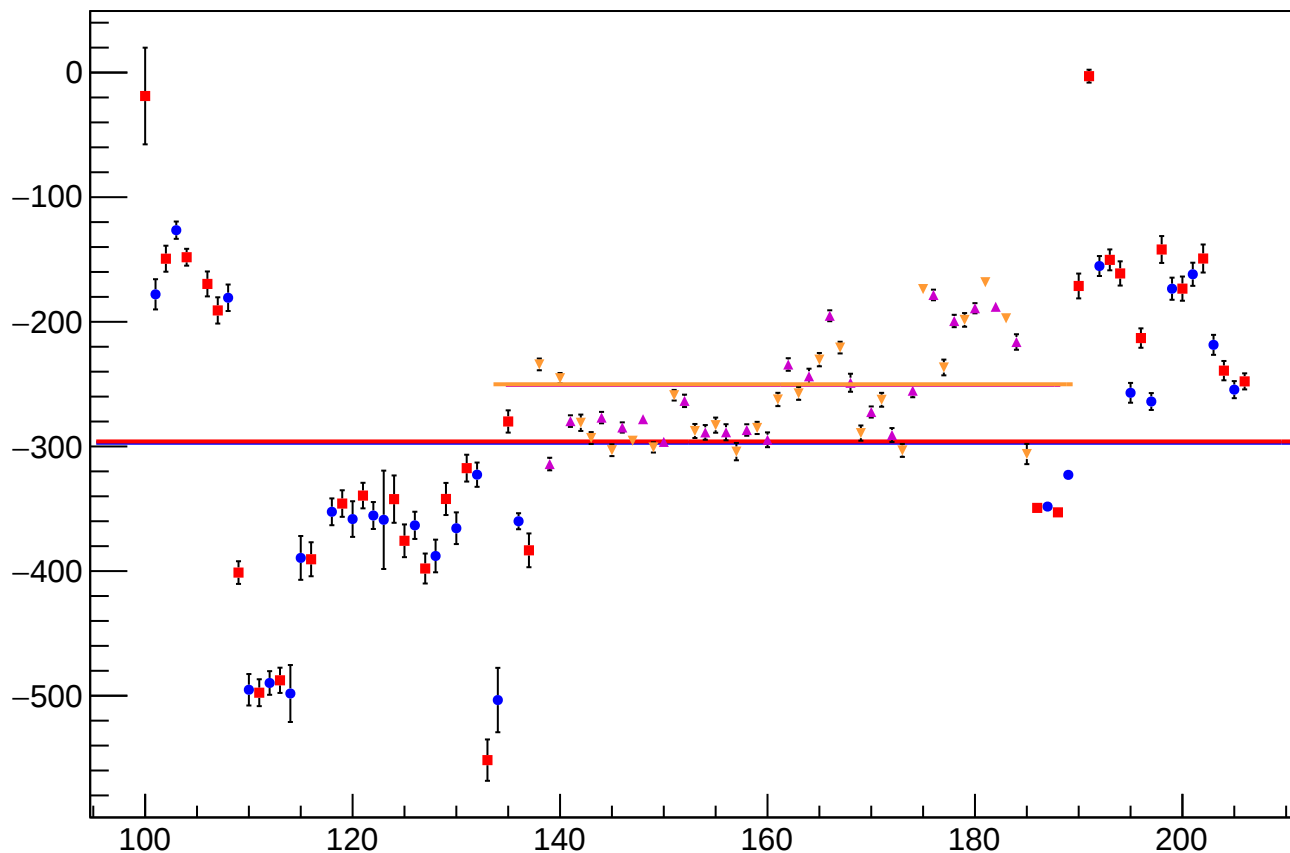
Right: 1.853 $\pm$ 0.874 χ^2 /NDF: 1751.1/56

In: 8.148 $\pm$ 0.659 χ^2 /NDF: 1447.8/48

Out: 5.636 $\pm$ 0.616 χ^2 /NDF: 1718.2/55

All: 6.807 $\pm$ 0.450 χ^2 /NDF: 3173.8/104

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -297.041+/-1.609 χ^2/NDF : 3070.9/25

Left Out: -250.119+/-0.972 χ^2/NDF : 2246.9/24

Right Out: -295.982+/-1.209 χ^2/NDF : 8109.9/30

Left In: -250.628+/-0.990 χ^2/NDF : 1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

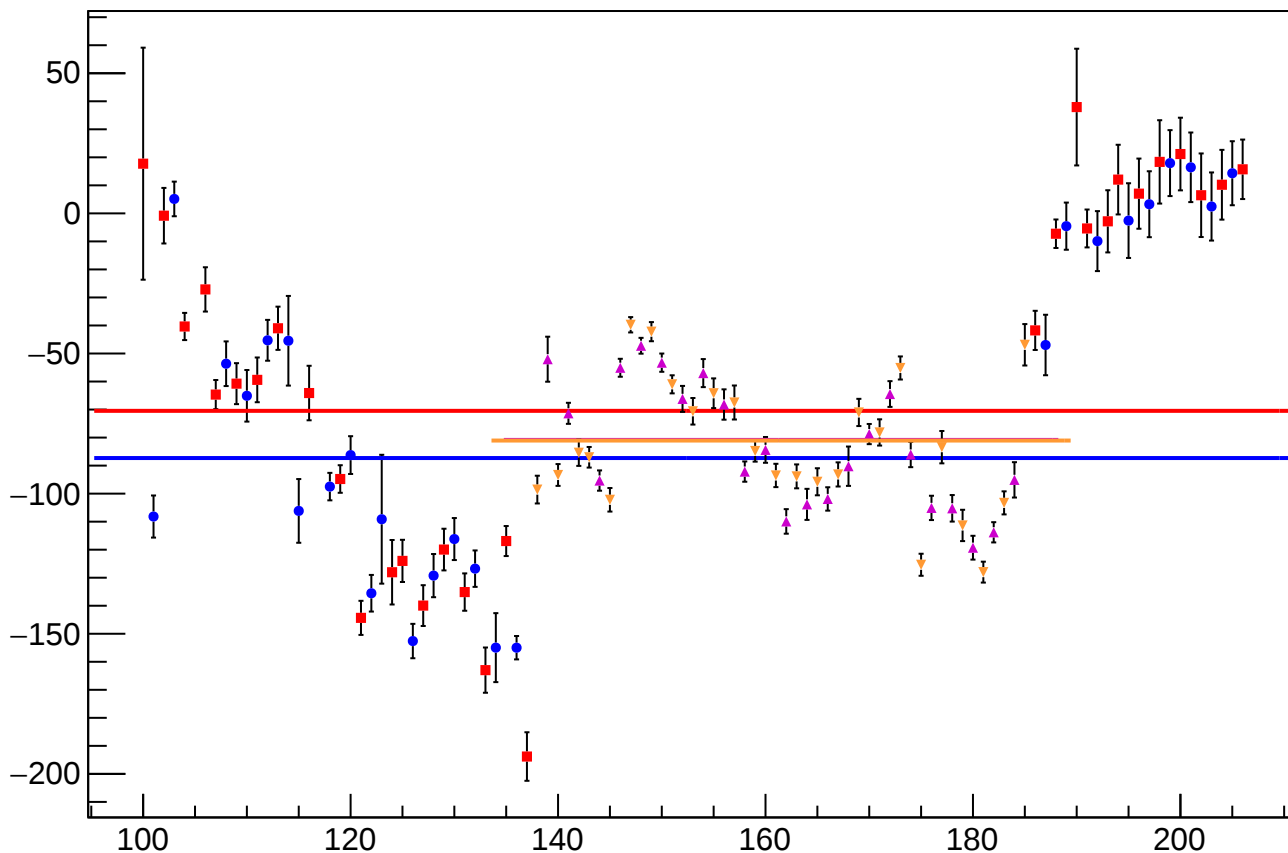
Right: -296.364+/-0.966 χ^2/NDF : 11181.1/56

In: -263.378+/-0.843 χ^2/NDF : 5611.4/48

Out: -268.138+/-0.758 χ^2/NDF : 11231.0/55

All: -266.013+/-0.564 χ^2/NDF : 16860.0/104

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -87.299 ± 1.557 $\chi^2/\text{NDF}: 1391.9/25$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -70.459 ± 1.388 $\chi^2/\text{NDF}: 1660.0/30$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

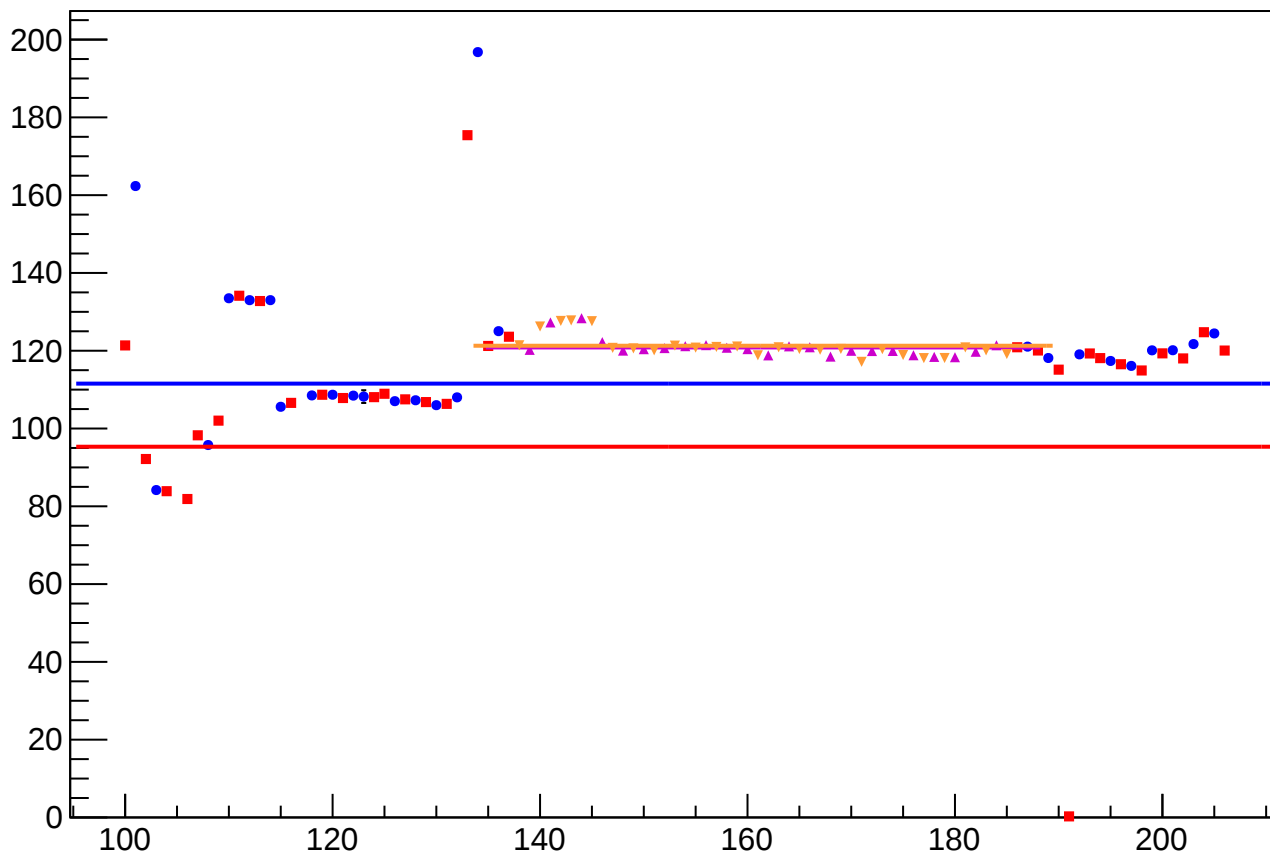
Right: -77.912 ± 1.036 $\chi^2/\text{NDF}: 3117.1/56$

In: -82.376 ± 0.761 $\chi^2/\text{NDF}: 2098.2/48$

Out: -78.200 ± 0.720 $\chi^2/\text{NDF}: 2615.6/55$

All: -80.175 ± 0.523 $\chi^2/\text{NDF}: 4729.7/104$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 111.544 $\pm$ 0.072 χ^2 /NDF: 78200.5/25

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 95.320 $\pm$ 0.062 χ^2 /NDF: 363471.7/30

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

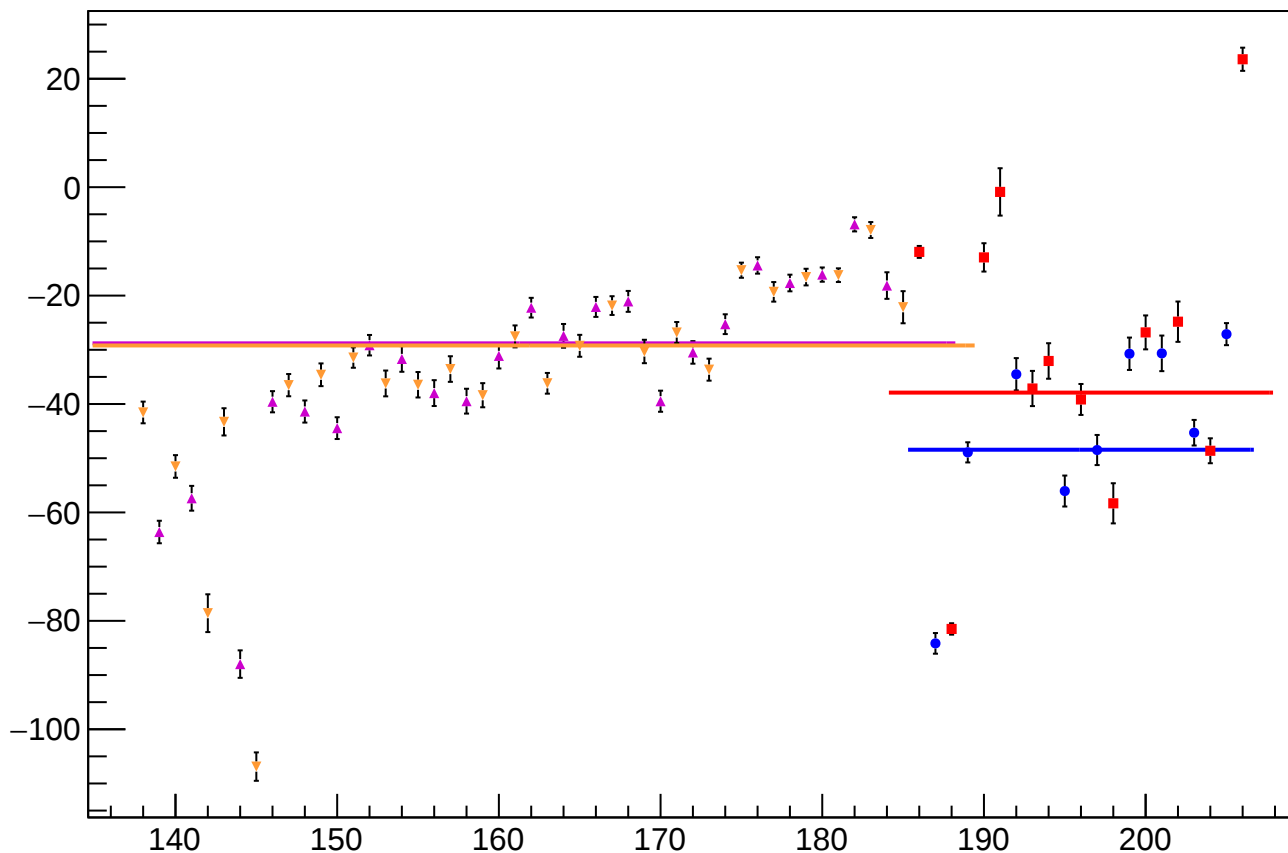
Right: 102.270 $\pm$ 0.047 χ^2 /NDF: 470567.1/56

In: 118.599 $\pm$ 0.035 χ^2 /NDF: 94168.2/48

Out: 113.705 $\pm$ 0.034 χ^2 /NDF: 490744.7/55

All: 116.032 $\pm$ 0.024 χ^2 /NDF: 594911.8/104

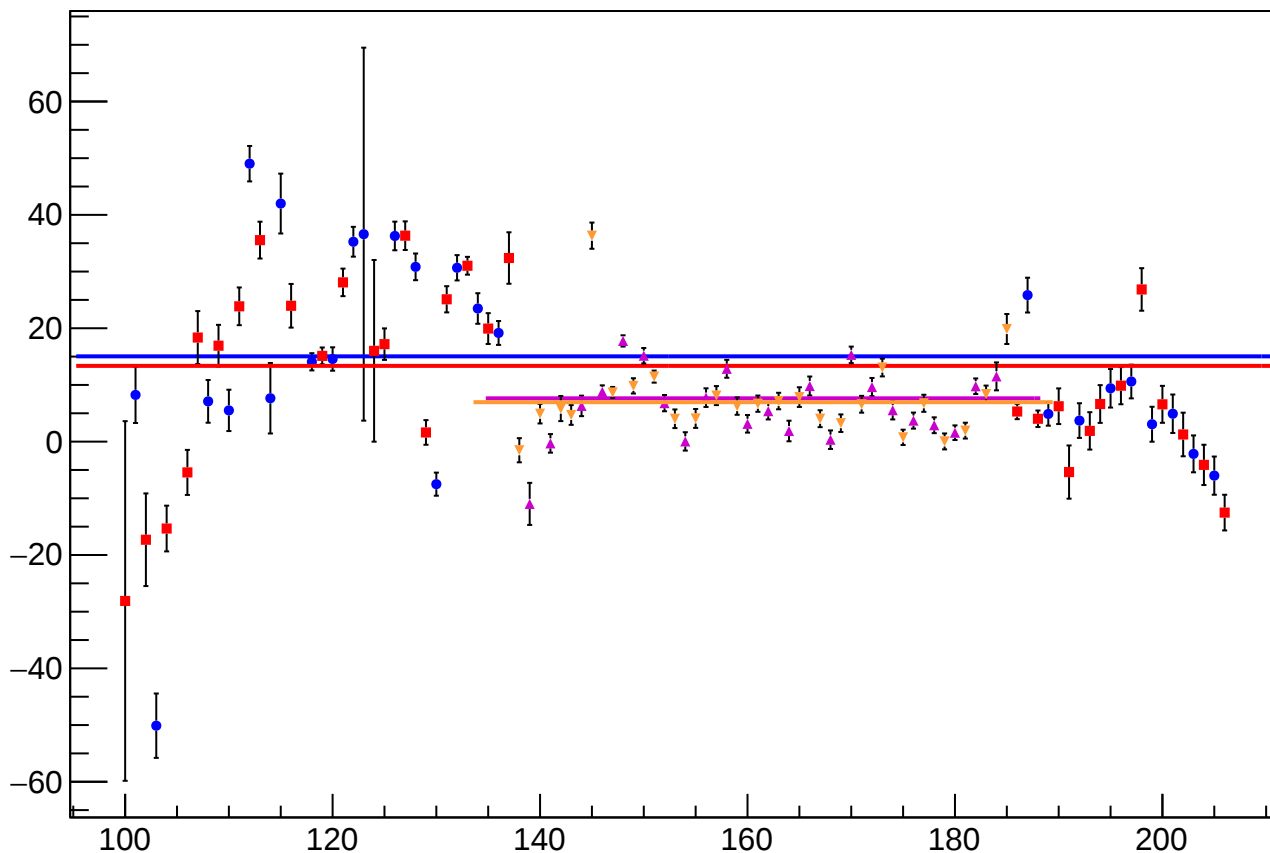
reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -48.433 ± 0.802 χ^2/NDF : 556.4/8
 Left Out: -29.199 ± 0.389 χ^2/NDF : 1881.5/24
 Right Out: -37.895 ± 0.587 χ^2/NDF : 3356.1/11
 Left In: -28.810 ± 0.395 χ^2/NDF : 1763.8/22

Left: -29.008 ± 0.277 χ^2/NDF : 3645.8/47
 Right: -41.572 ± 0.474 χ^2/NDF : 4024.9/20
 In: -32.647 ± 0.355 χ^2/NDF : 2802.1/31
 Out: -31.849 ± 0.324 χ^2/NDF : 5390.1/36
 All: -32.212 ± 0.239 χ^2/NDF : 8195.0/68

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.044 ± 0.546 χ^2/NDF : 797.8/25

Left Out: 6.960 ± 0.303 χ^2/NDF : 321.3/24

Right Out: 13.363 ± 0.484 χ^2/NDF : 716.9/30

Left In: 7.638 ± 0.313 χ^2/NDF : 337.7/22

Left: 7.287 ± 0.218 χ^2/NDF : 661.5/47

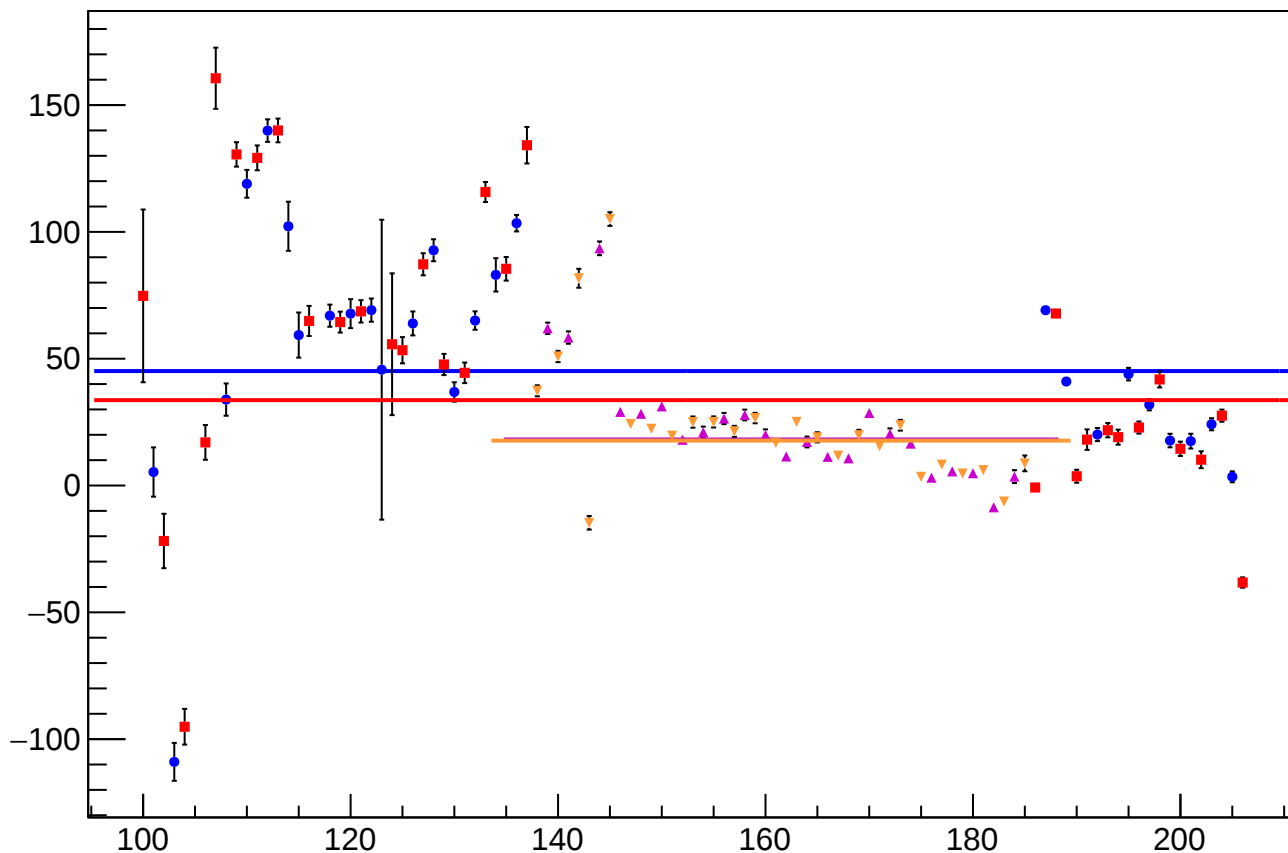
Right: 14.103 ± 0.362 χ^2/NDF : 1520.0/56

In: 9.477 ± 0.272 χ^2/NDF : 1274.1/48

Out: 8.764 ± 0.257 χ^2/NDF : 1164.1/55

All: 9.100 ± 0.187 χ^2/NDF : 2441.8/104

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 45.126 $\pm$ 0.617 χ^2 /NDF: 2733.1/25

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 33.658 $\pm$ 0.460 χ^2 /NDF: 7610.6/30

Left In: 18.150 $\pm$ 0.393 χ^2 /NDF:2339.4/22

Left: 17.924 $\pm$ 0.276 χ^2 /NDF: 4772.2/47

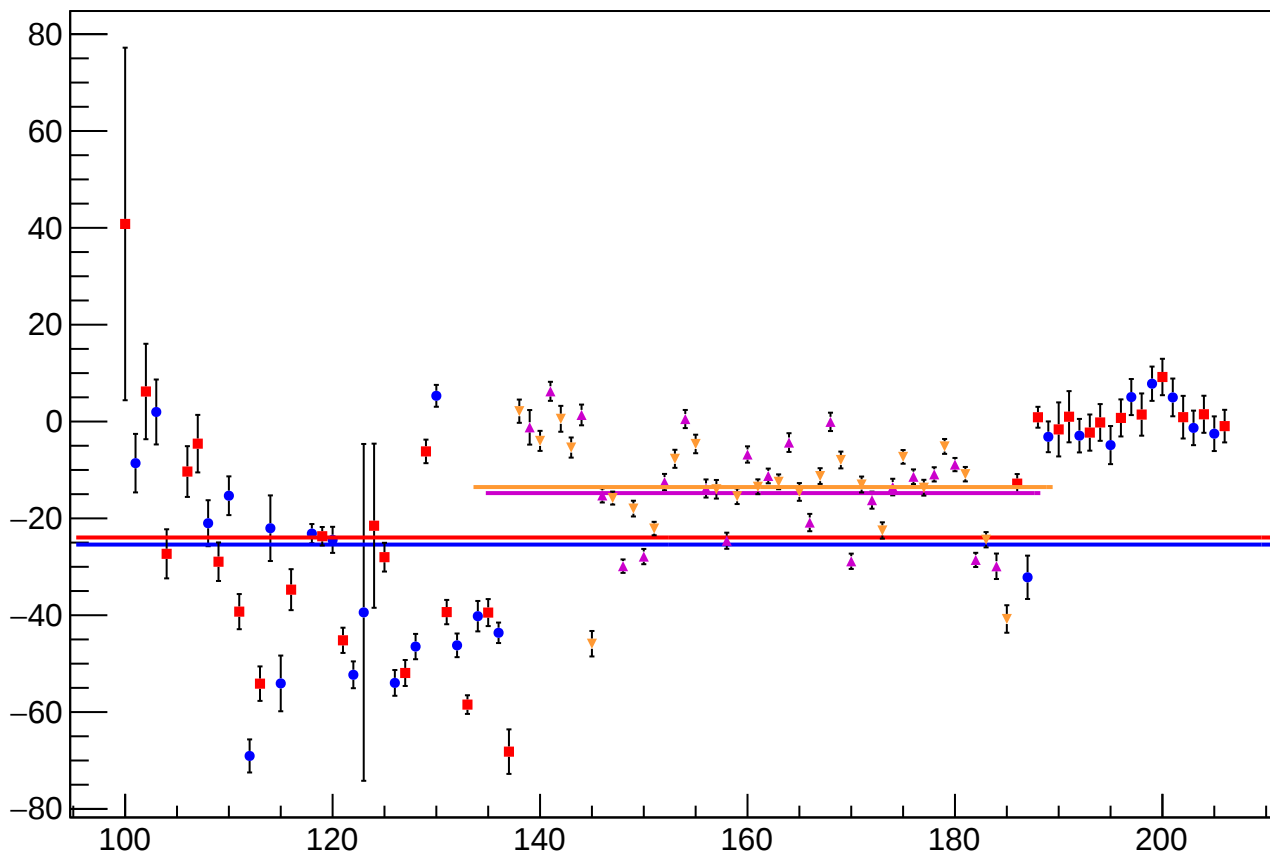
Right: 37.753 $\pm$ 0.369 χ^2 /NDF: 10565.8/56

In: 25.922 $\pm$ 0.331 χ^2 /NDF:6432.9/48

Out: 24.322 $\pm$ 0.296 χ^2 /NDF:10746.8/55

All: 25.033 $\pm$ 0.221 χ^2 /NDF: 17192.7/104

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -25.409 ± 0.637 χ^2/NDF : 1273.6/25

Left Out: -13.531 ± 0.344 χ^2/NDF : 572.8/24

Right Out: -23.945 ± 0.585 χ^2/NDF : 1392.1/30

Left In: -14.778 ± 0.354 χ^2/NDF : 838.0/22

Left: -14.136 ± 0.247 χ^2/NDF : 1417.2/47

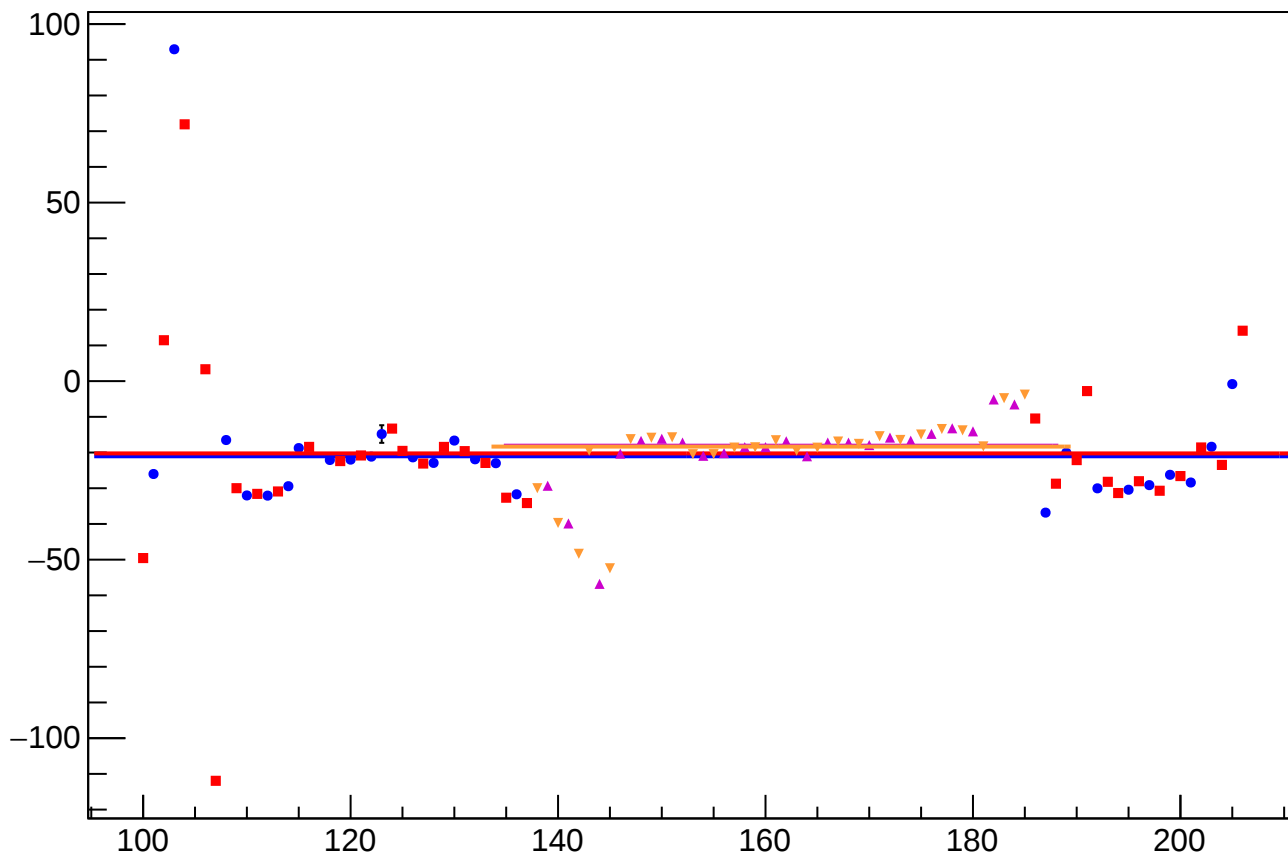
Right: -24.616 ± 0.431 χ^2/NDF : 2668.5/56

In: -17.290 ± 0.309 χ^2/NDF : 2324.5/48

Out: -16.205 ± 0.297 χ^2/NDF : 2200.2/55

All: -16.724 ± 0.214 χ^2/NDF : 4531.1/104

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -21.047 $\pm$ 0.031 χ^2/NDF : 527835.0/25

Left Out: -18.334 $\pm$ 0.016 χ^2/NDF : 284152.1/24

Right Out: -20.244 $\pm$ 0.028 χ^2/NDF : 561374.7/30

Left In: -18.083 $\pm$ 0.016 χ^2/NDF : 241949.5/22

Left: -18.211 $\pm$ 0.011 χ^2/NDF : 526224.9/47

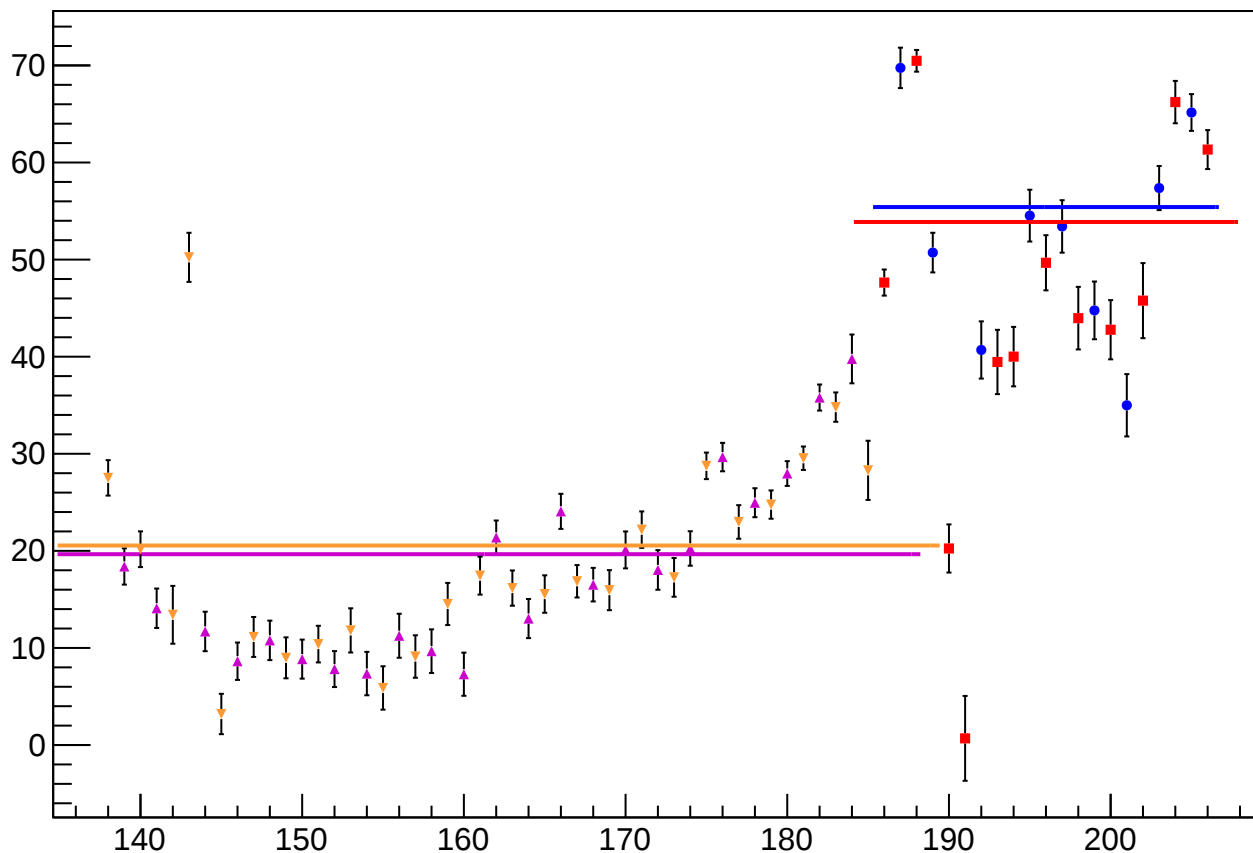
Right: -20.614 $\pm$ 0.021 χ^2/NDF : 1089577.4/56

In: -18.720 $\pm$ 0.014 χ^2/NDF : 777075.7/48

Out: -18.787 $\pm$ 0.014 χ^2/NDF : 848972.2/55

All: -18.754 $\pm$ 0.010 χ^2/NDF : 1626059.3/104

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 55.412 $\pm$ 0.804 χ^2 /NDF: 158.7/8

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 53.876 $\pm$ 0.618 χ^2 /NDF: 688.5/11

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

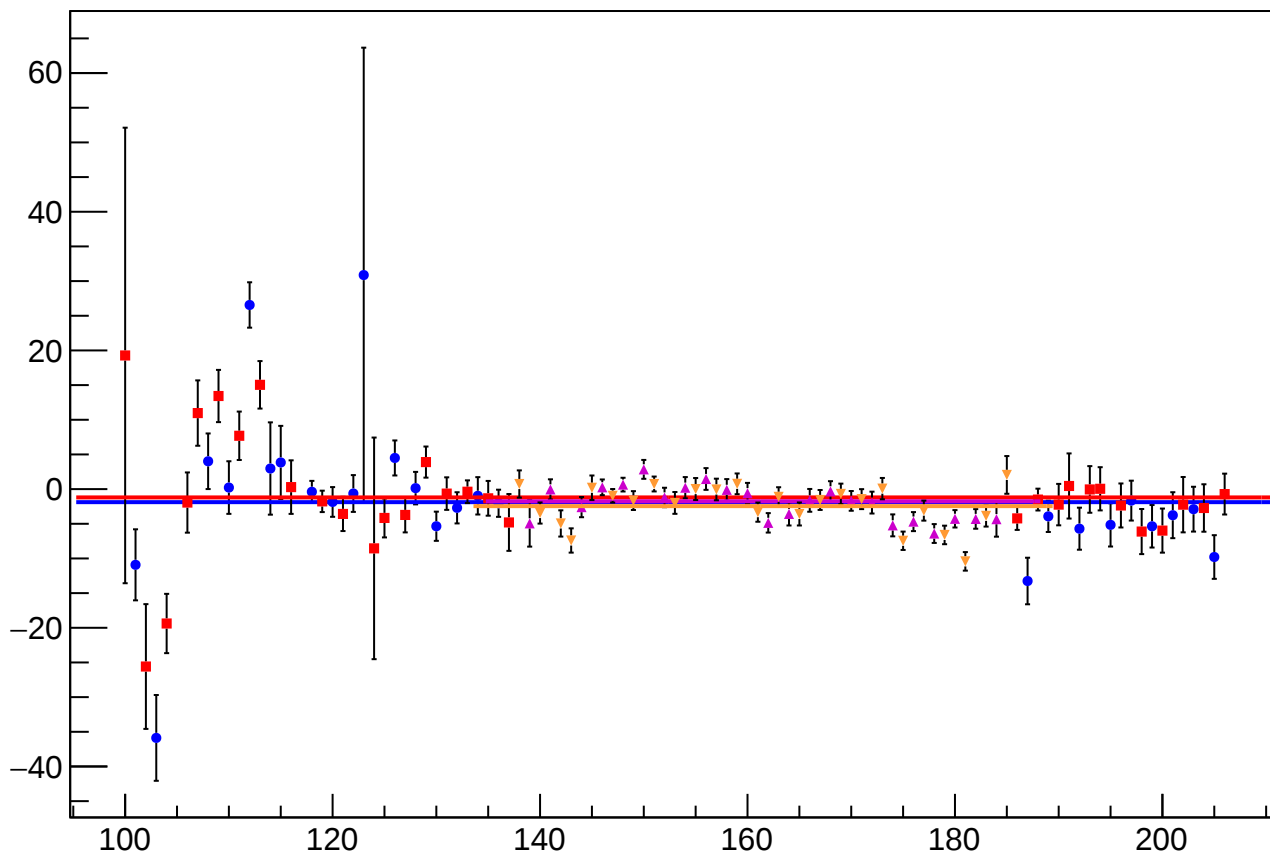
Right: 54.446 $\pm$ 0.490 χ^2 /NDF: 849.6/20

In: 26.192 $\pm$ 0.344 χ^2 /NDF: 2345.7/31

Out: 29.453 $\pm$ 0.319 χ^2 /NDF: 3446.8/36

All: 27.943 $\pm$ 0.234 χ^2 /NDF: 5840.8/68

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.881 ± 0.552 χ^2/NDF : 148.2/25

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.198 ± 0.501 χ^2/NDF : 95.2/30

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

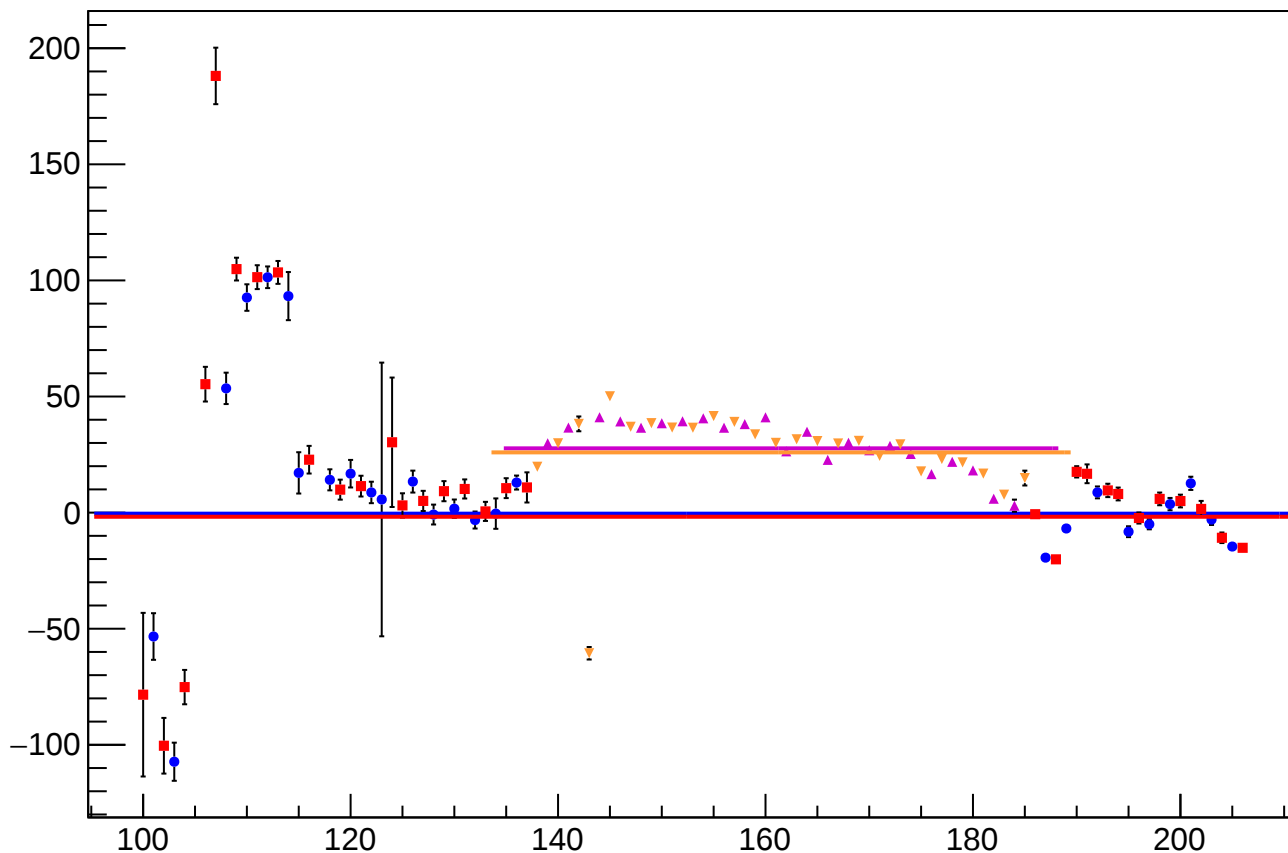
Right: -1.507 ± 0.371 χ^2/NDF : 244.2/56

In: -1.787 ± 0.265 χ^2/NDF : 215.7/48

Out: -2.136 ± 0.252 χ^2/NDF : 205.9/55

All: -1.969 ± 0.183 χ^2/NDF : 422.4/104

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.453 ± 0.626 $\chi^2/\text{NDF}: 1379.3/25$

Left Out: 25.938 ± 0.372 $\chi^2/\text{NDF}: 1711.6/24$

Right Out: -1.780 ± 0.487 $\chi^2/\text{NDF}: 2476.3/30$

Left In: 27.677 ± 0.378 $\chi^2/\text{NDF}: 803.9/22$

Left: 26.794 ± 0.265 $\chi^2/\text{NDF}: 2526.2/47$

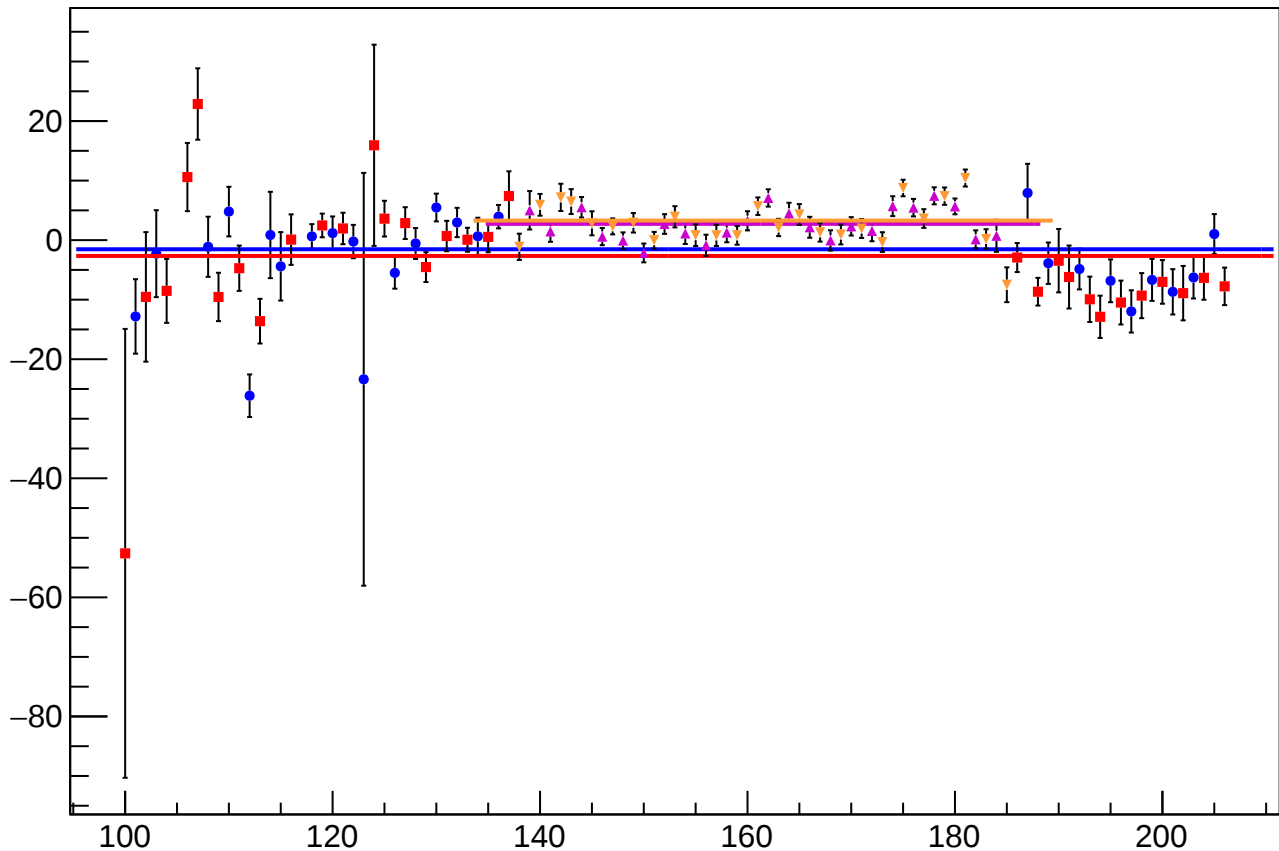
Right: -1.279 ± 0.384 $\chi^2/\text{NDF}: 3858.4/56$

In: 20.147 ± 0.324 $\chi^2/\text{NDF}: 3663.9/48$

Out: 15.719 ± 0.296 $\chi^2/\text{NDF}: 6231.1/55$

All: 17.734 ± 0.218 $\chi^2/\text{NDF}: 9997.0/104$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.533 ± 0.639 χ^2/NDF : 102.9/25

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -2.653 ± 0.599 χ^2/NDF : 103.6/30

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

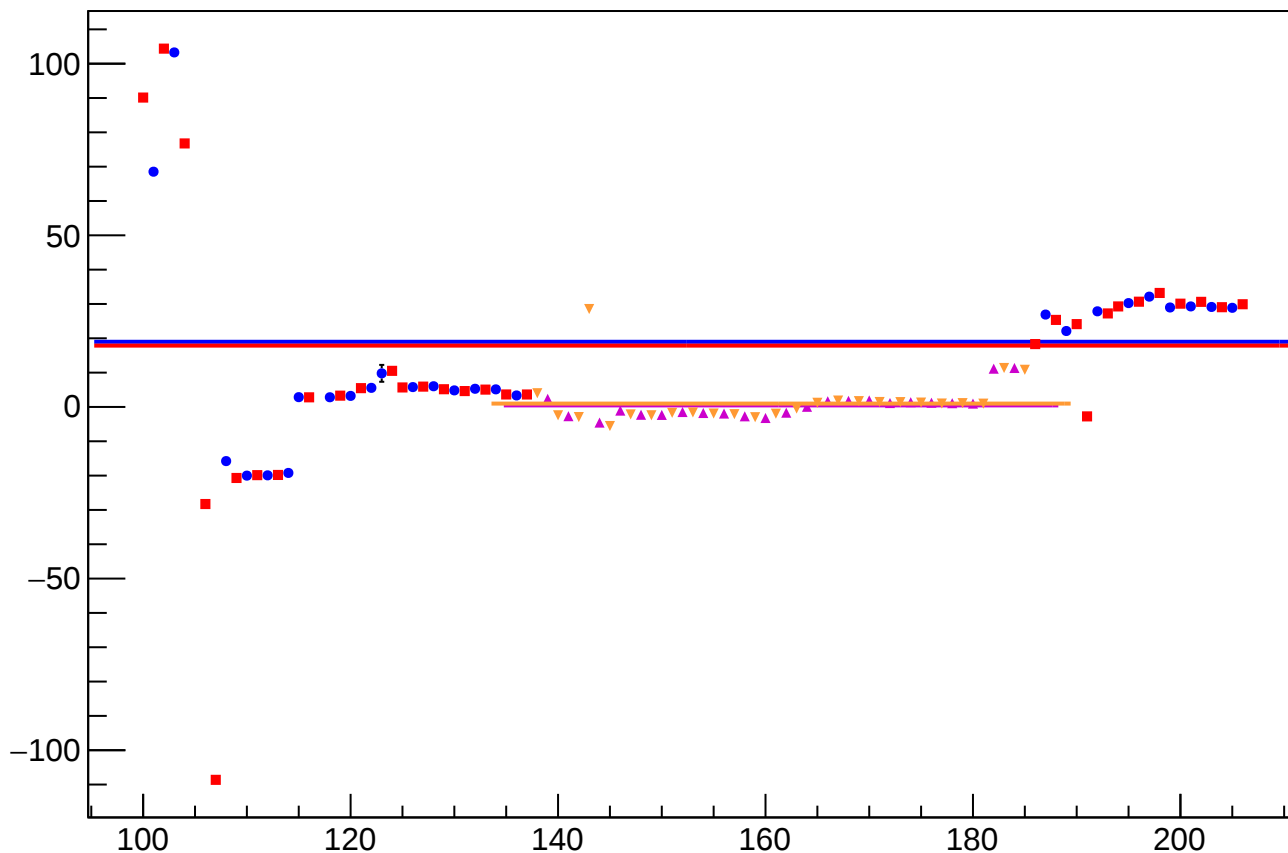
Right: -2.130 ± 0.437 χ^2/NDF : 208.1/56

In: 1.791 ± 0.301 χ^2/NDF : 202.1/48

Out: 1.890 ± 0.290 χ^2/NDF : 281.1/55

All: 1.842 ± 0.209 χ^2/NDF : 483.3/104

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 18.987 $\pm$ 0.030 χ^2 /NDF: 481861.1/25

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF: 117391.3/24

Right Out: 17.867 $\pm$ 0.028 χ^2 /NDF: 722911.5/30

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

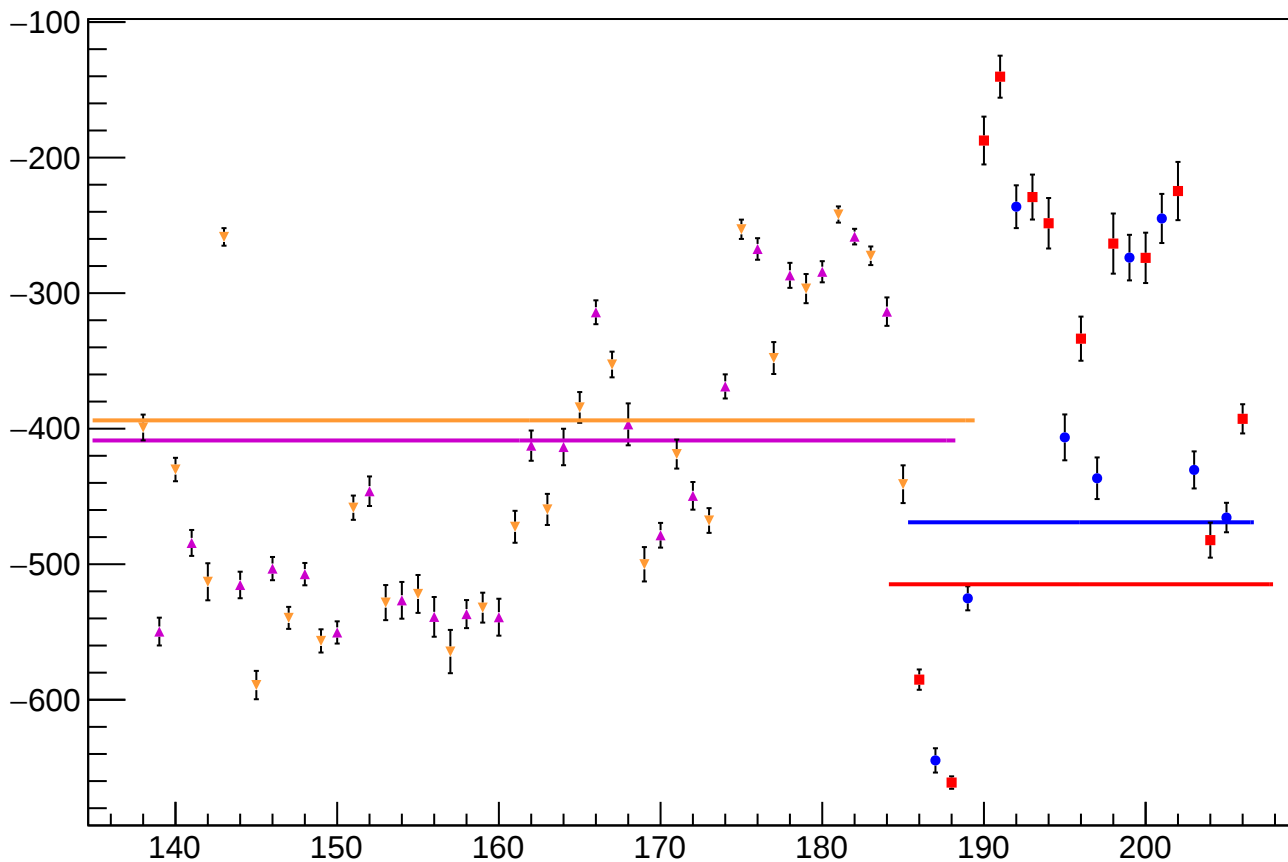
Right: 18.386 $\pm$ 0.021 χ^2 /NDF: 1205499.2/56

In: 4.246 $\pm$ 0.014 χ^2 /NDF: 827933.5/48

Out: 4.761 $\pm$ 0.013 χ^2 /NDF: 1117064.4/55

All: 4.510 $\pm$ 0.010 χ^2 /NDF: 1945717.6/104

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -469.068+/-4.177 χ^2/NDF : 955.7/8

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -514.796+/-3.093 χ^2/NDF : 3268.8/11

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

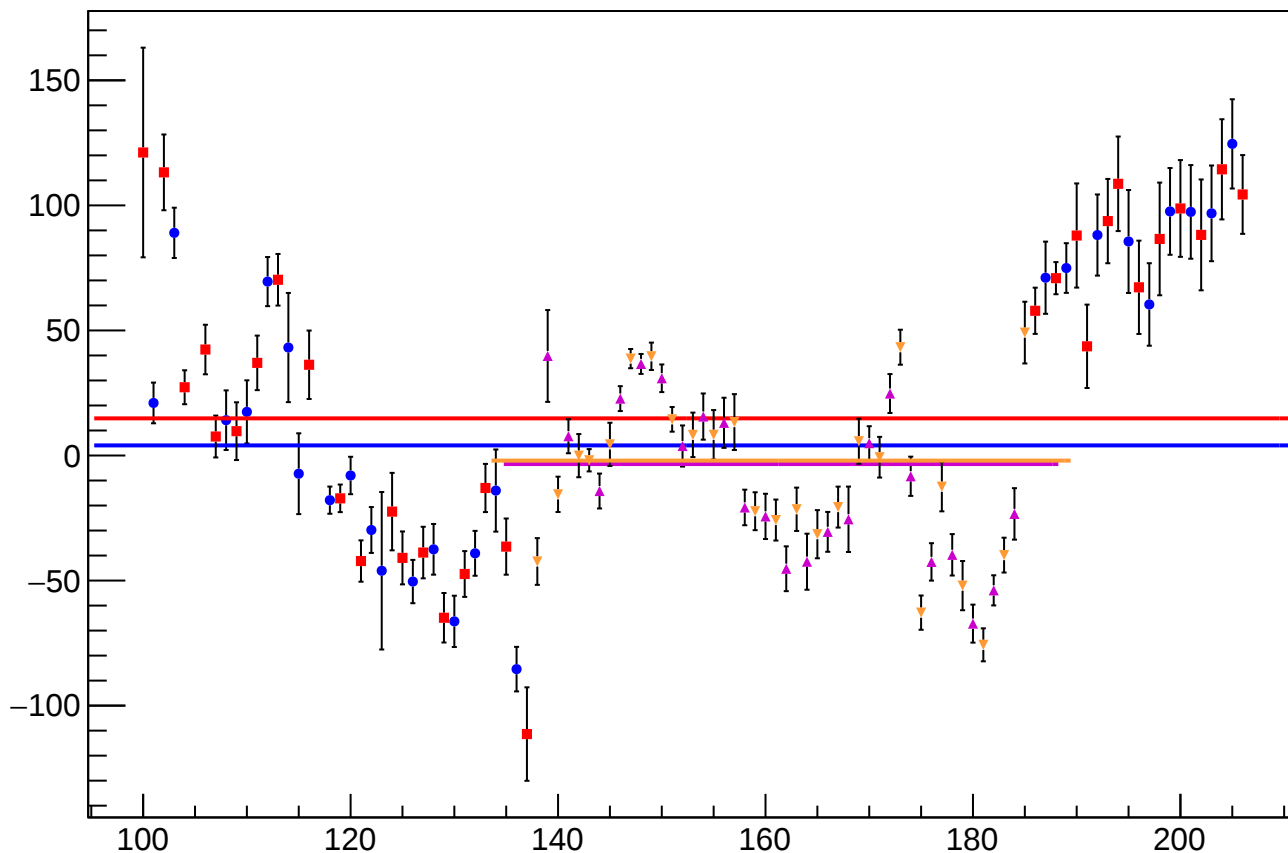
Right: -498.604+/-2.486 χ^2/NDF : 4302.0/20

In: -419.762+/-1.788 χ^2/NDF : 4189.2/31

Out: -426.925+/-1.617 χ^2/NDF : 8152.3/36

All: -423.703+/-1.199 χ^2/NDF : 12350.3/68

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.036 ± 2.145 $\chi^2/\text{NDF}: 639.4/25$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 14.850 ± 1.962 $\chi^2/\text{NDF}: 688.5/30$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

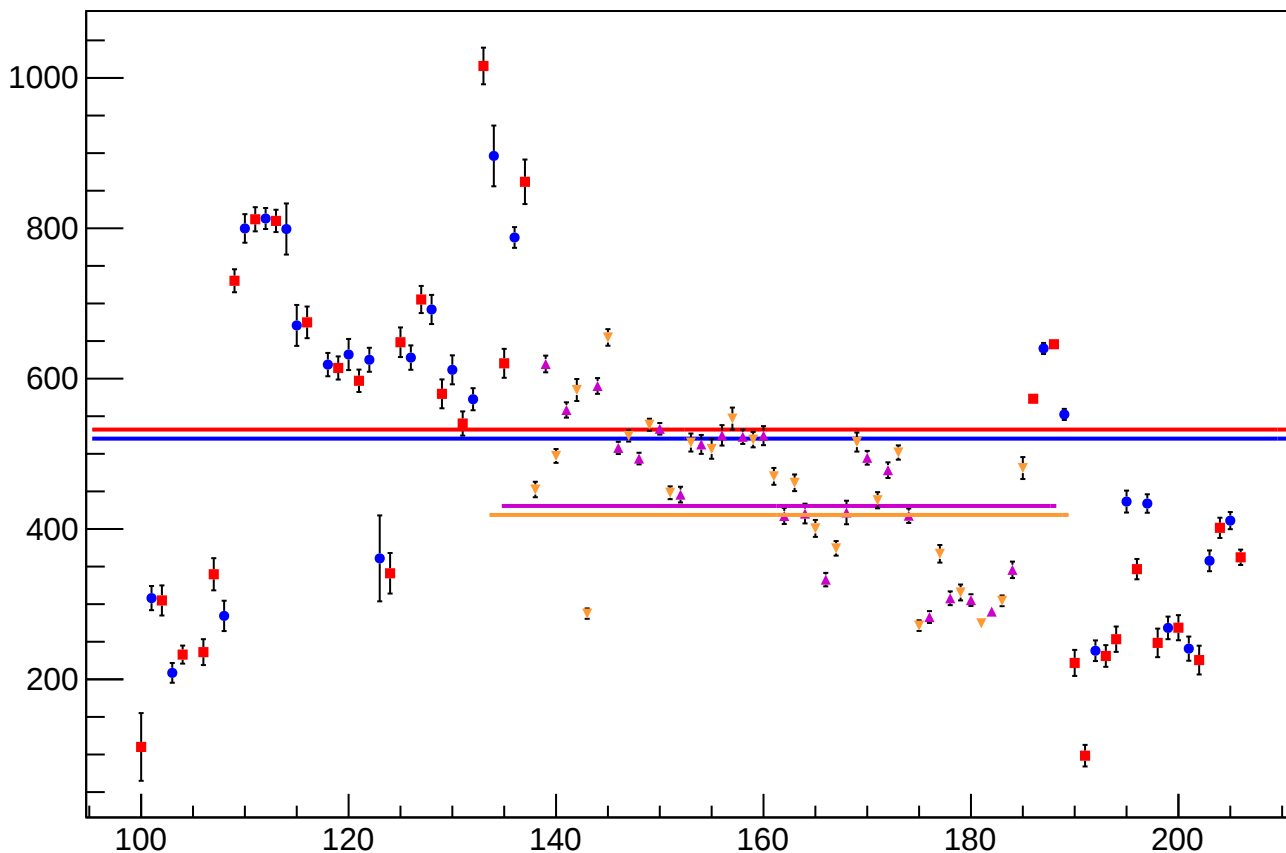
Right: 9.923 ± 1.448 $\chi^2/\text{NDF}: 1341.7/56$

In: -0.927 ± 1.240 $\chi^2/\text{NDF}: 1098.4/48$

Out: 3.791 ± 1.153 $\chi^2/\text{NDF}: 1300.8/55$

All: 1.605 ± 0.844 $\chi^2/\text{NDF}: 2407.0/104$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 520.207 $\pm$ 2.805 χ^2 /NDF: 3966.8/25

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 532.262 $\pm$ 2.205 χ^2 /NDF: 7076.9/30

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

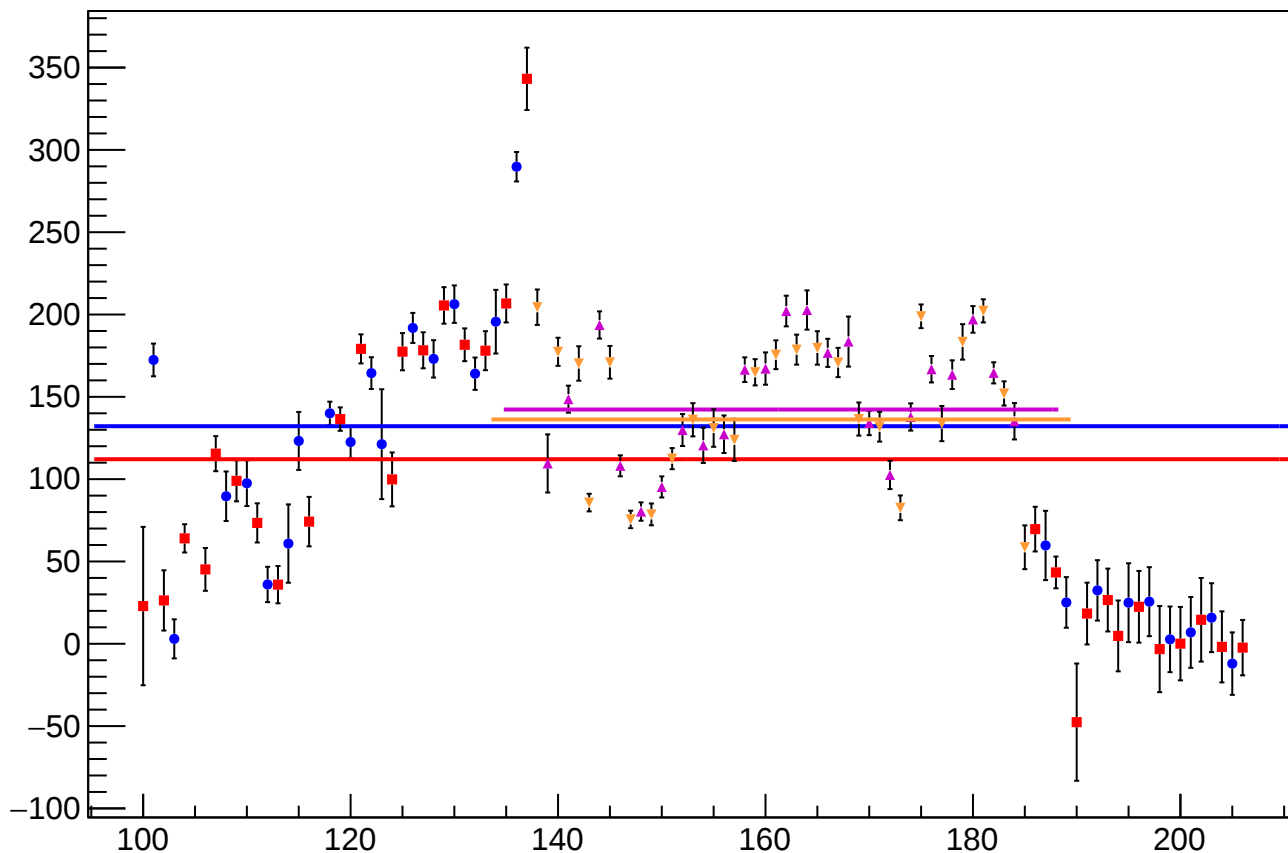
Right: 527.658 $\pm$ 1.733 χ^2 /NDF: 11055.1/56

In: 460.246 $\pm$ 1.612 χ^2 /NDF:7500.1/48

Out: 467.230 $\pm$ 1.441 χ^2 /NDF:11893.1/55

All: 464.128 $\pm$ 1.075 χ^2 /NDF: 19403.7/104

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 132.159 ± 2.509 $\chi^2/\text{NDF}: 982.6/25$

Left Out: 136.258 ± 1.651 $\chi^2/\text{NDF}: 758.3/24$

Right Out: 112.097 ± 2.336 $\chi^2/\text{NDF}: 955.0/30$

Left In: 142.296 ± 1.745 $\chi^2/\text{NDF}: 459.8/22$

Left: 139.111 ± 1.199 $\chi^2/\text{NDF}: 1224.4/47$

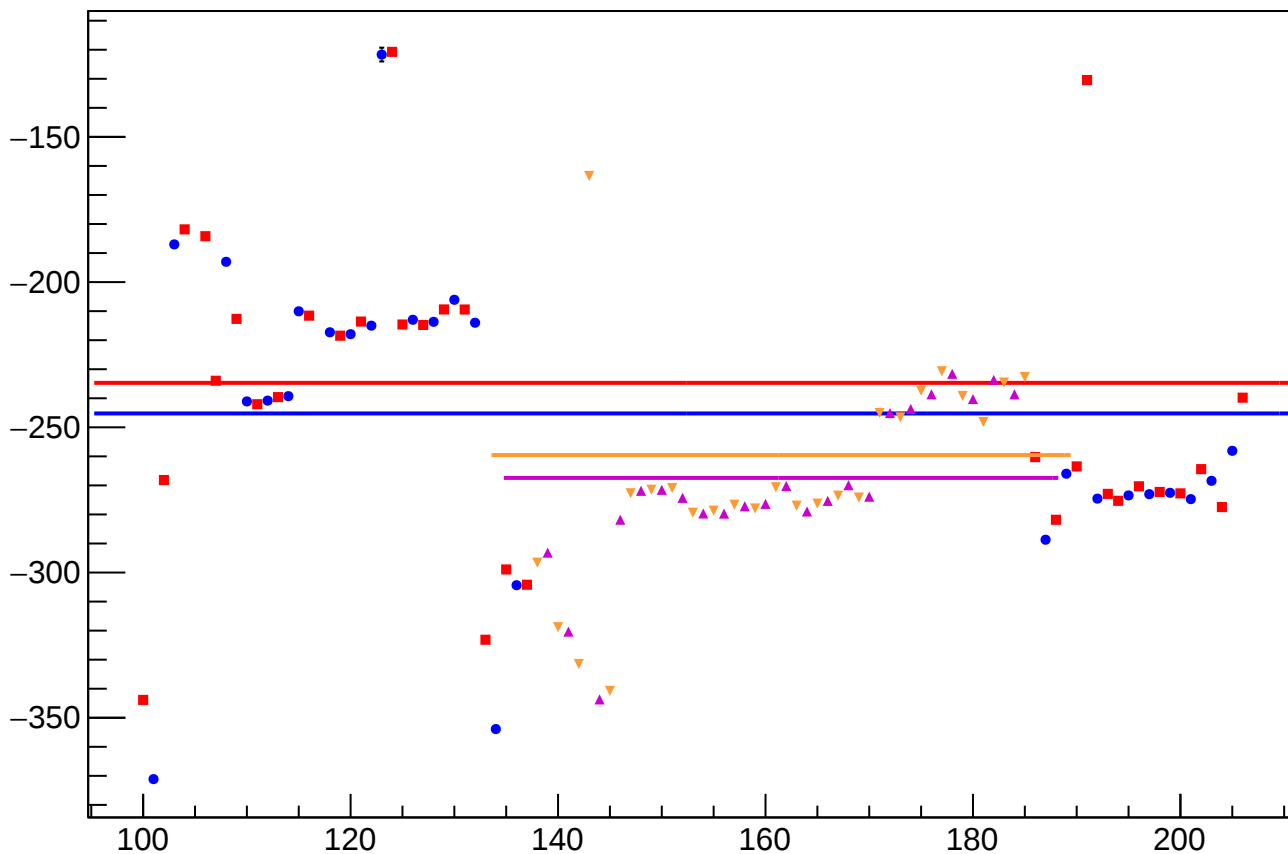
Right: 121.413 ± 1.710 $\chi^2/\text{NDF}: 1971.9/56$

In: 138.992 ± 1.432 $\chi^2/\text{NDF}: 1453.4/48$

Out: 128.210 ± 1.348 $\chi^2/\text{NDF}: 1784.6/55$

All: 133.275 ± 0.982 $\chi^2/\text{NDF}: 3268.1/104$

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -245.226 ± 0.126 χ^2/NDF : 163543.6/25

Left Out: -259.557 ± 0.079 χ^2/NDF : 238235.2/24

Right Out: -234.691 ± 0.114 χ^2/NDF : 174147.1/30

Left In: -267.417 ± 0.082 χ^2/NDF : 98035.5/22

Left: -263.361 ± 0.057 χ^2/NDF : 341051.4/47

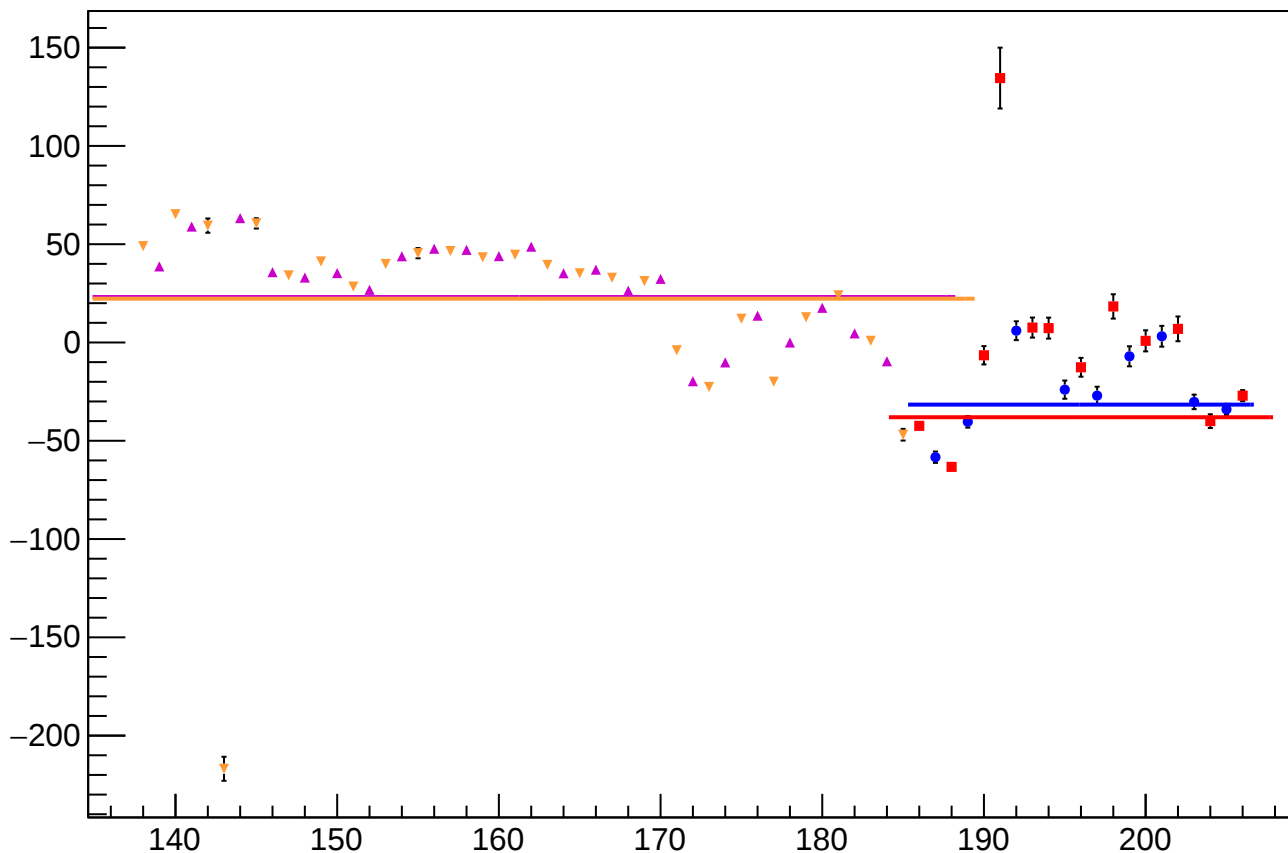
Right: -239.442 ± 0.085 χ^2/NDF : 341525.3/56

In: -260.856 ± 0.069 χ^2/NDF : 283406.7/48

Out: -251.502 ± 0.065 χ^2/NDF : 444403.4/55

All: -255.933 ± 0.047 χ^2/NDF : 737612.0/104

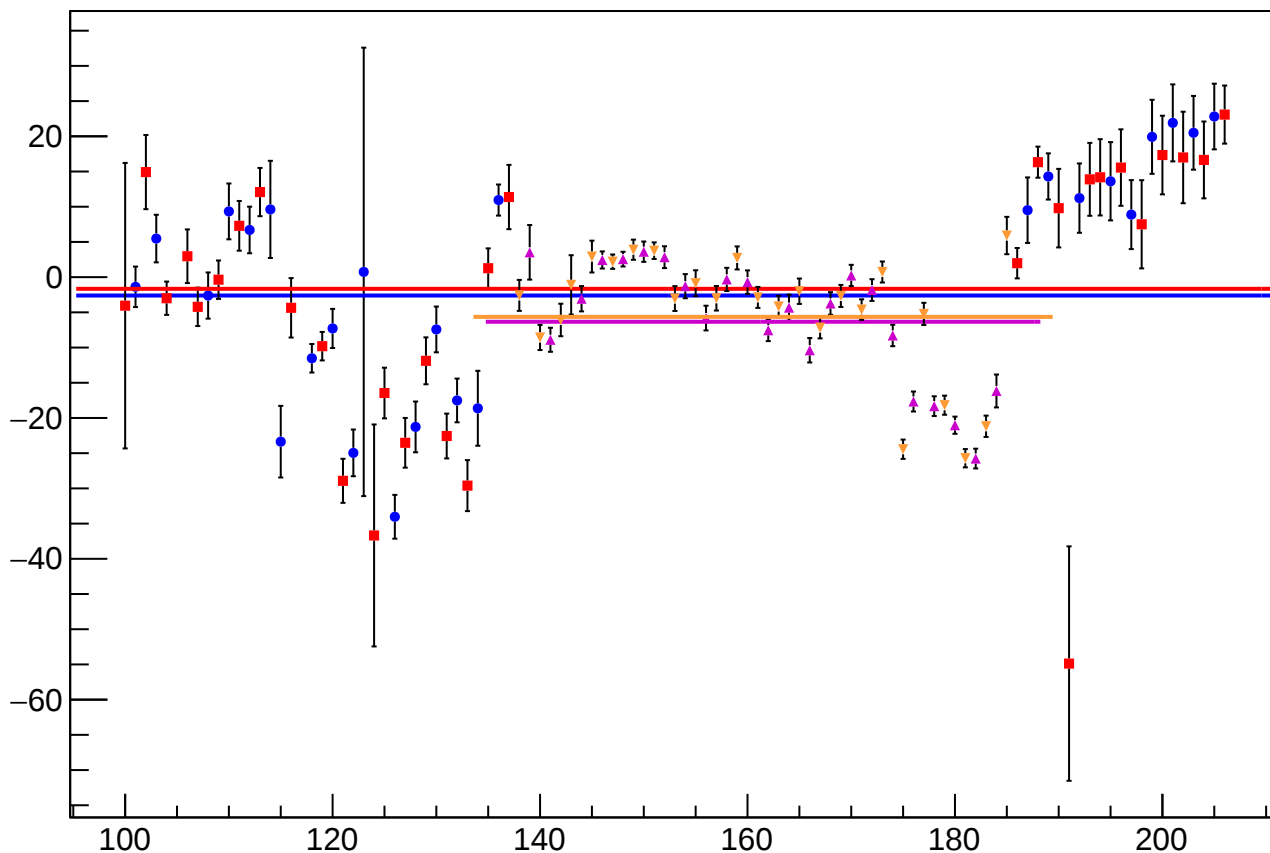
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.608 ± 1.247 $\chi^2/\text{NDF}: 227.1/8$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -38.024 ± 0.913 $\chi^2/\text{NDF}: 821.0/11$
 Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$
 Right: -35.786 ± 0.736 $\chi^2/\text{NDF}: 1065.3/20$
 In: 17.995 ± 0.382 $\chi^2/\text{NDF}: 4718.1/31$
 Out: 12.612 ± 0.365 $\chi^2/\text{NDF}: 9658.1/36$
 All: 15.183 ± 0.264 $\chi^2/\text{NDF}: 14479.9/68$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.609 ± 0.706 $\chi^2/\text{NDF}: 454.2/25$

Left Out: -5.642 ± 0.316 $\chi^2/\text{NDF}: 893.7/24$

Right Out: -1.658 ± 0.638 $\chi^2/\text{NDF}: 490.1/30$

Left In: -6.337 ± 0.321 $\chi^2/\text{NDF}: 783.0/22$

Left: -5.983 ± 0.225 $\chi^2/\text{NDF}: 1679.1/47$

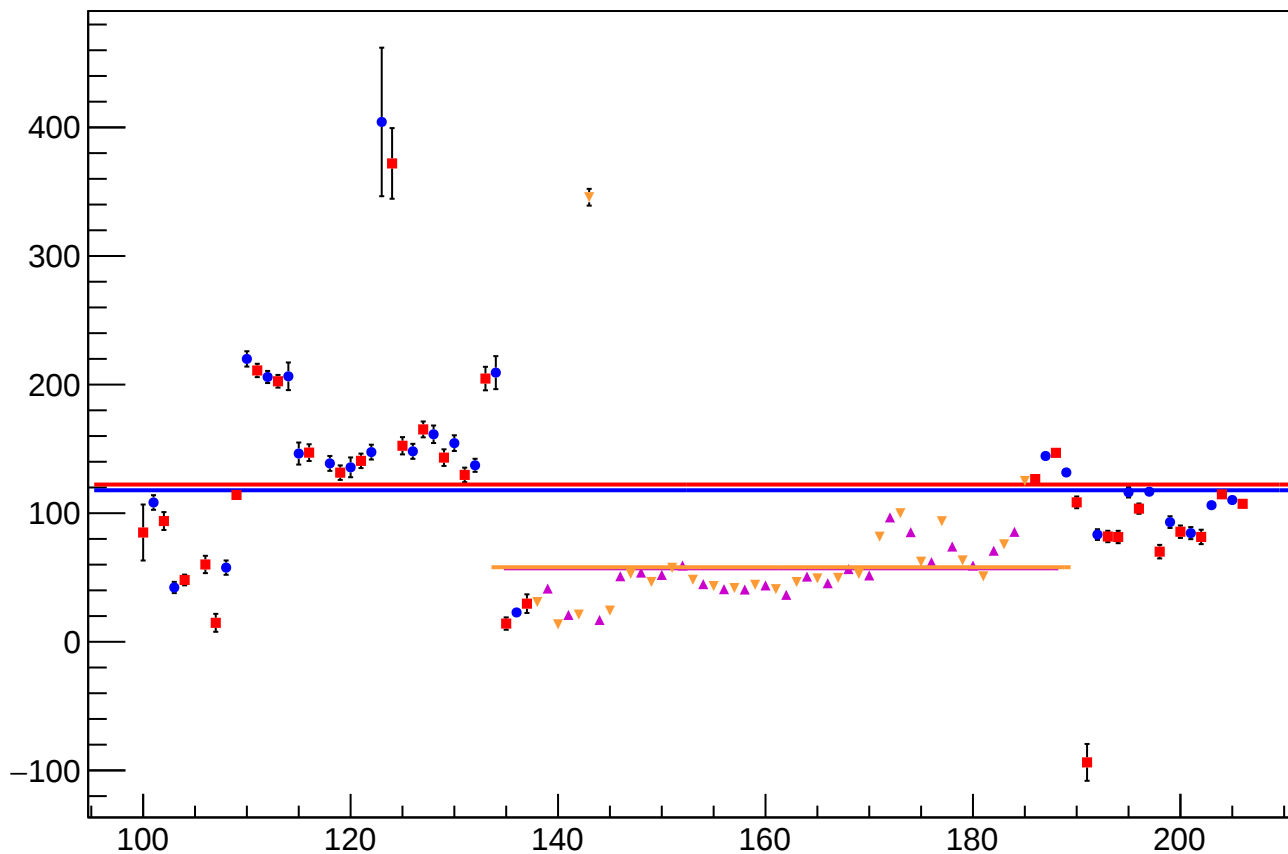
Right: -2.086 ± 0.473 $\chi^2/\text{NDF}: 945.3/56$

In: -5.697 ± 0.292 $\chi^2/\text{NDF}: 1260.2/48$

Out: -4.859 ± 0.283 $\chi^2/\text{NDF}: 1415.2/55$

All: -5.264 ± 0.203 $\chi^2/\text{NDF}: 2679.7/104$

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 117.830 $\pm$ 0.875 χ^2 /NDF: 2480.6/25

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 122.291 $\pm$ 0.672 χ^2 /NDF: 3211.9/30

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

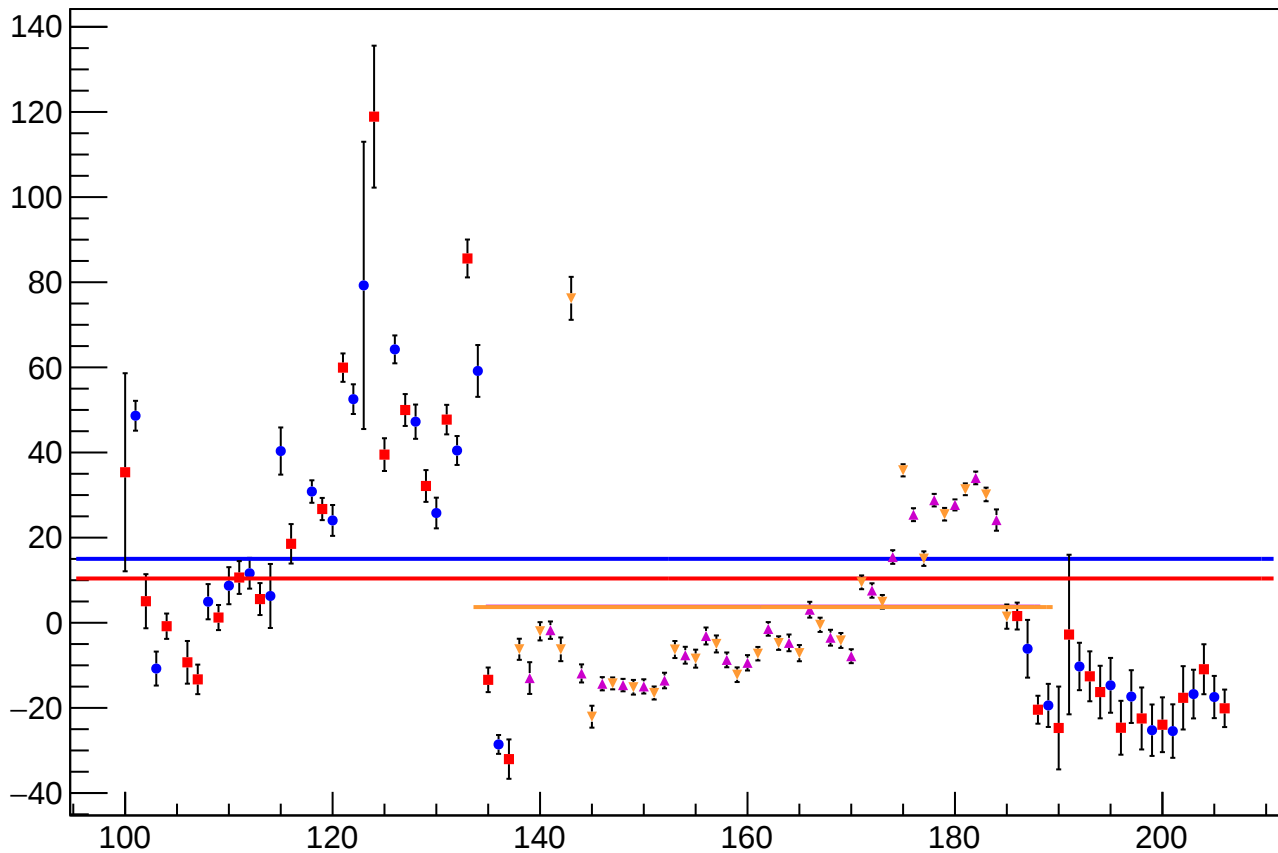
Right: 120.637 $\pm$ 0.533 χ^2 /NDF: 5708.8/56

In: 67.608 $\pm$ 0.363 χ^2 /NDF:8264.1/48

Out: 74.694 $\pm$ 0.342 χ^2 /NDF:14630.2/55

All: 71.363 $\pm$ 0.249 χ^2 /NDF: 23095.7/104

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.016+/-0.816 χ^2/NDF : 1405.7/25

Left Out: 3.684+/-0.357 χ^2/NDF :2541.7/24

Right Out: 10.403+/-0.758 χ^2/NDF : 1449.2/30

Left In: 3.786+/-0.362 χ^2/NDF :2198.8/22

Left: 3.734+/-0.254 χ^2/NDF : 4740.5/47

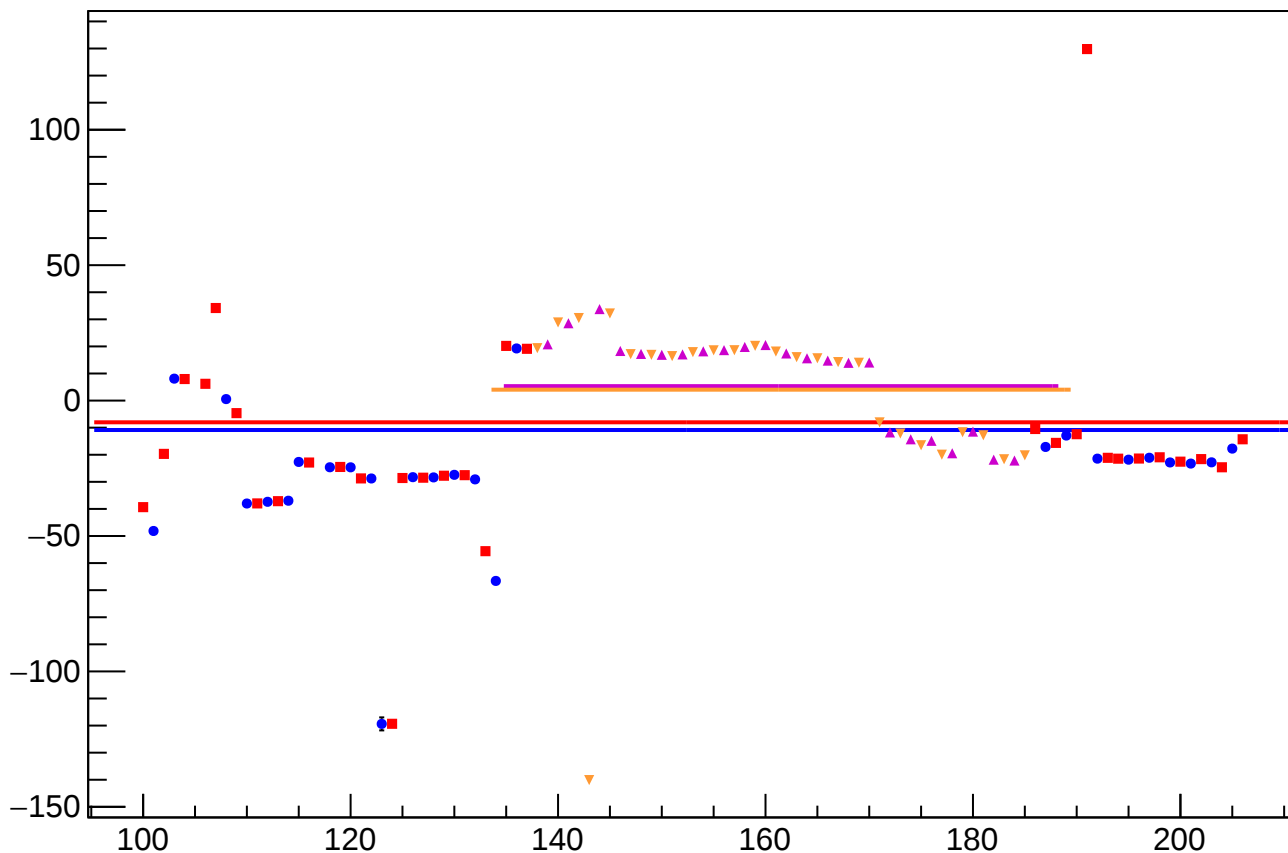
Right: 12.538+/-0.555 χ^2/NDF : 2872.1/56

In: 5.630+/-0.331 χ^2/NDF :3762.7/48

Out: 4.903+/-0.323 χ^2/NDF :4055.2/55

All: 5.257+/-0.231 χ^2/NDF : 7820.4/104

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -10.862 ± 0.038 χ^2/NDF : 296848.5/25

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -8.017 ± 0.036 χ^2/NDF : 387185.3/30

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

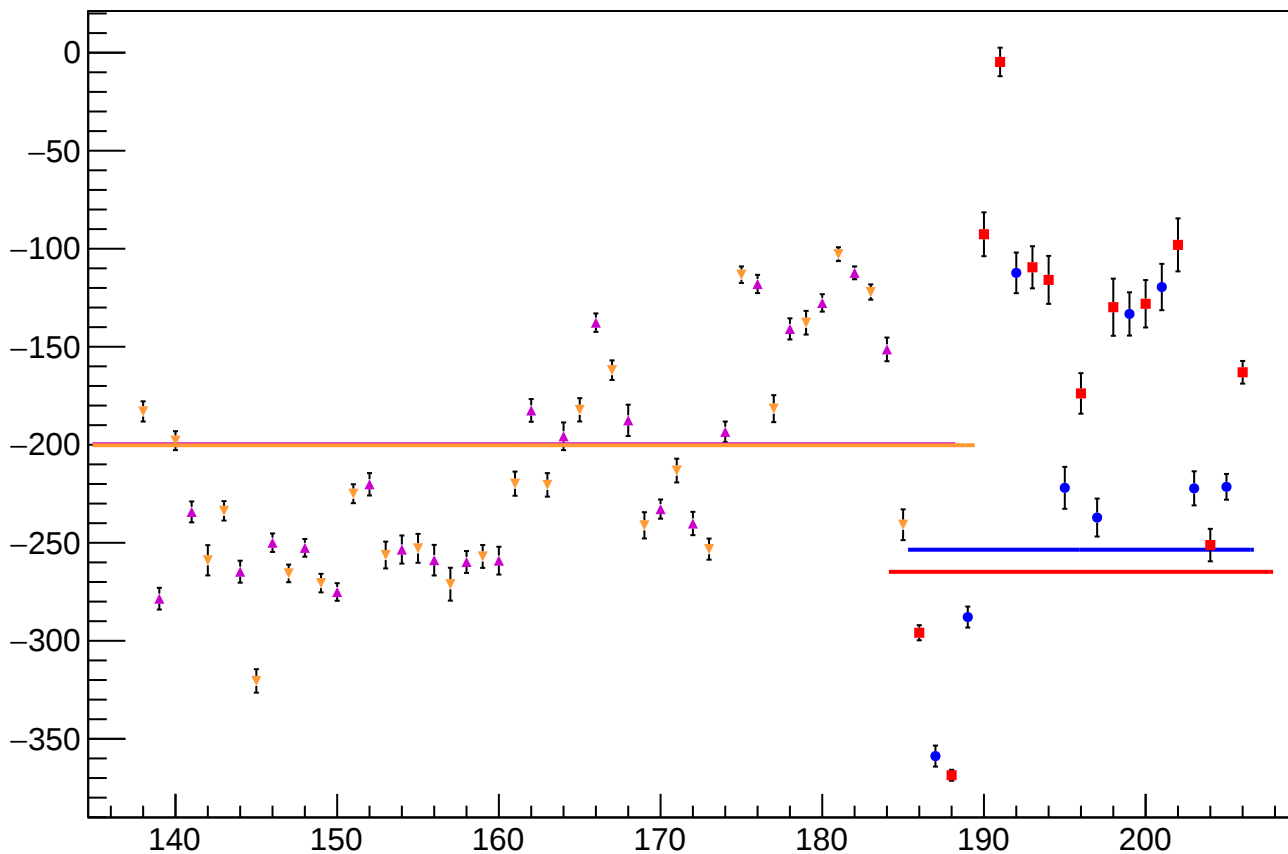
Right: -9.359 ± 0.026 χ^2/NDF : 686931.4/56

In: 2.832 ± 0.015 χ^2/NDF : 1524977.0/48

Out: 1.992 ± 0.015 χ^2/NDF : 1861802.7/55

All: 2.407 ± 0.011 χ^2/NDF : 3388346.5/104

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -253.531 ± 2.579 χ^2/NDF : 908.7/8

Left Out: -200.228 ± 1.078 χ^2/NDF : 3225.0/24

Right Out: -264.809 ± 1.805 χ^2/NDF : 4054.9/11

Left In: -199.739 ± 1.097 χ^2/NDF : 2968.0/22

Left: -199.988 ± 0.769 χ^2/NDF : 6193.2/47

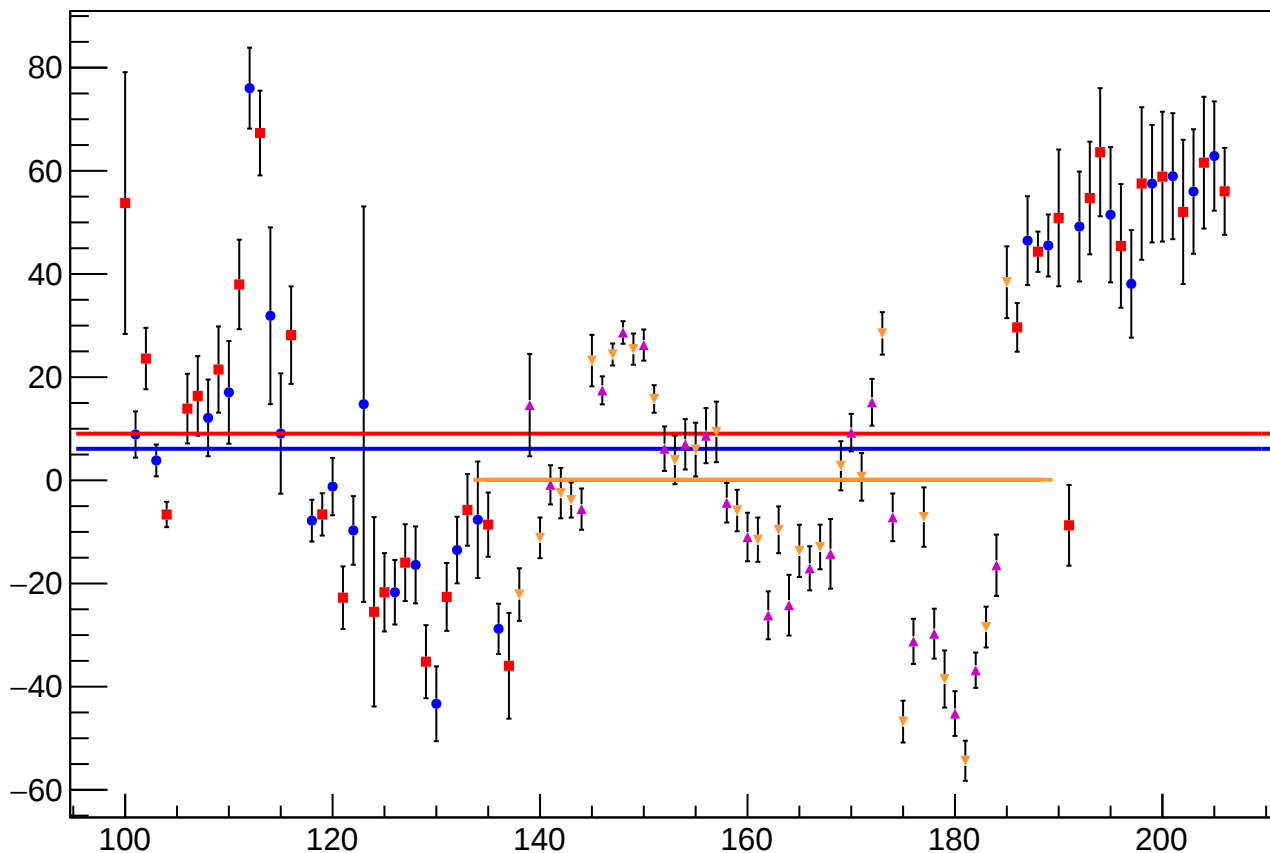
Right: -261.101 ± 1.479 χ^2/NDF : 4976.4/20

In: -207.985 ± 1.010 χ^2/NDF : 4245.0/31

Out: -217.202 ± 0.925 χ^2/NDF : 8223.5/36

All: -212.994 ± 0.682 χ^2/NDF : 12513.8/68

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.114 ± 1.338 $\chi^2/\text{NDF}: 428.5/25$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 9.051 ± 1.193 $\chi^2/\text{NDF}: 532.0/30$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

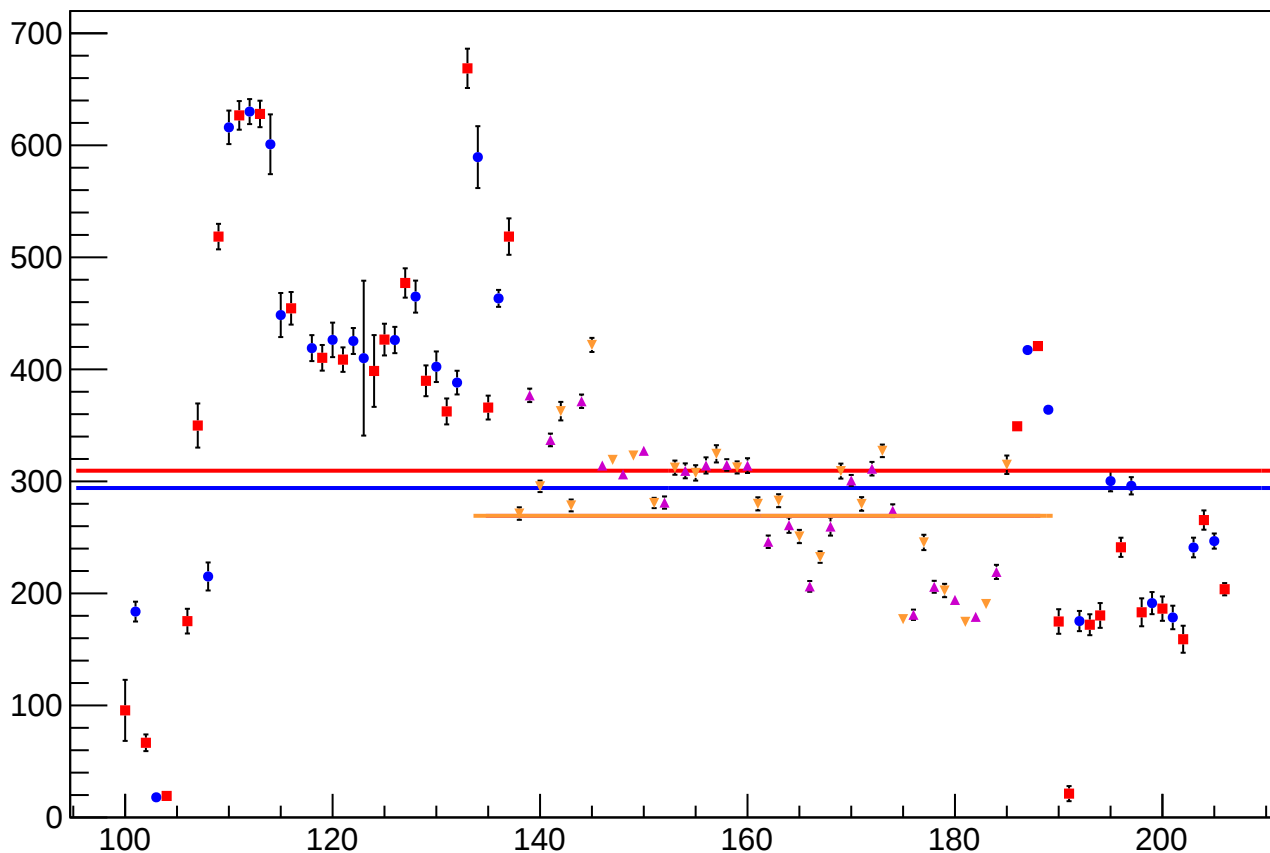
Right: 7.750 ± 0.890 $\chi^2/\text{NDF}: 963.2/56$

In: 1.792 ± 0.710 $\chi^2/\text{NDF}: 1158.5/48$

Out: 2.917 ± 0.669 $\chi^2/\text{NDF}: 1401.8/55$

All: 2.388 ± 0.487 $\chi^2/\text{NDF}: 2561.6/104$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 294.076 $\pm$ 1.671 χ^2 /NDF: 9270.7/25

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 309.531 $\pm$ 1.292 χ^2 /NDF: 14360.1/30

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

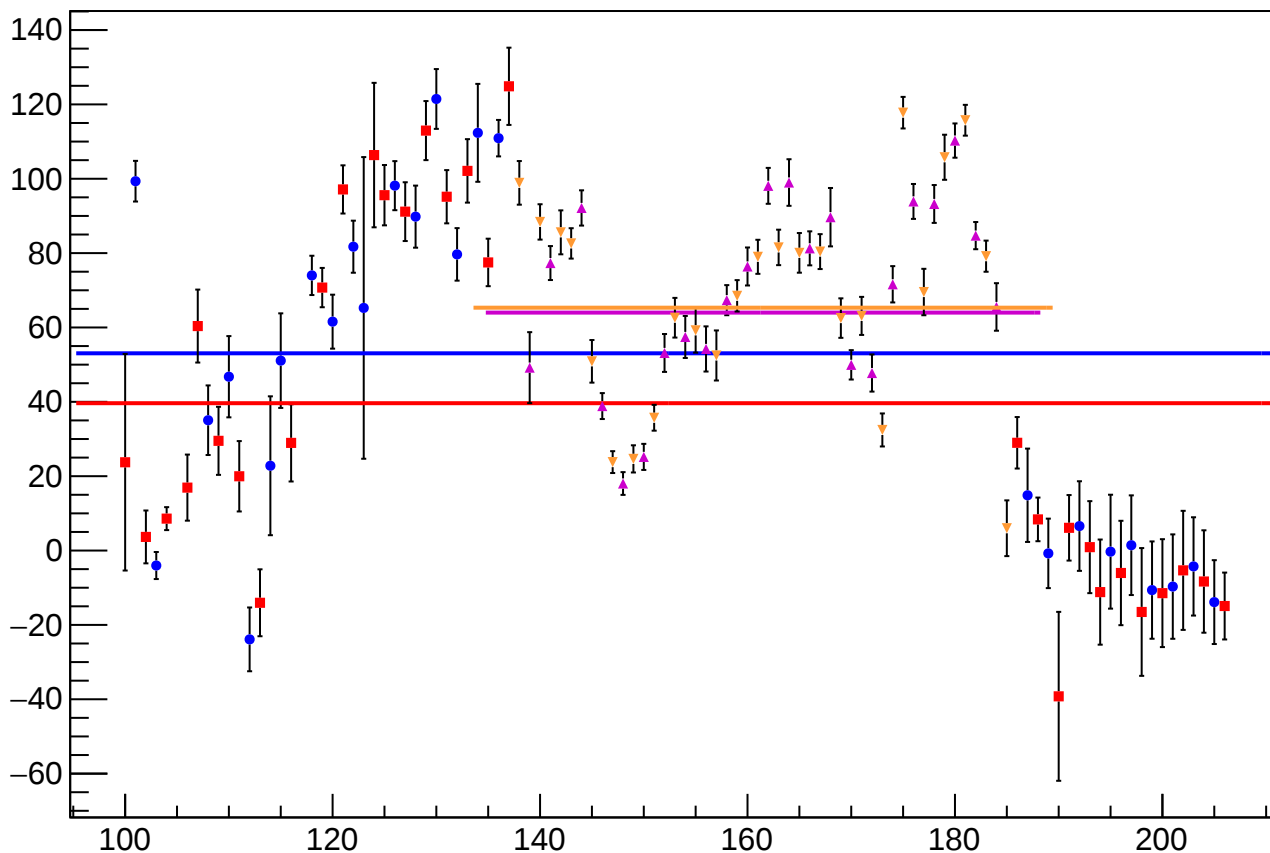
Right: 303.748 $\pm$ 1.022 χ^2 /NDF: 23684.4/56

In: 276.627 $\pm$ 0.913 χ^2 /NDF:12596.5/48

Out: 285.796 $\pm$ 0.827 χ^2 /NDF:18079.4/55

All: 281.662 $\pm$ 0.613 χ^2 /NDF: 30731.3/104

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 53.052 $\pm$ 1.569 χ^2 /NDF: 933.0/25

Left Out: 65.323 $\pm$ 0.935 χ^2 /NDF:1007.1/24

Right Out: 39.633 $\pm$ 1.442 χ^2 /NDF: 867.2/30

Left In: 63.999 $\pm$ 0.963 χ^2 /NDF:799.5/22

Left: 64.681 $\pm$ 0.671 χ^2 /NDF: 1807.5/47

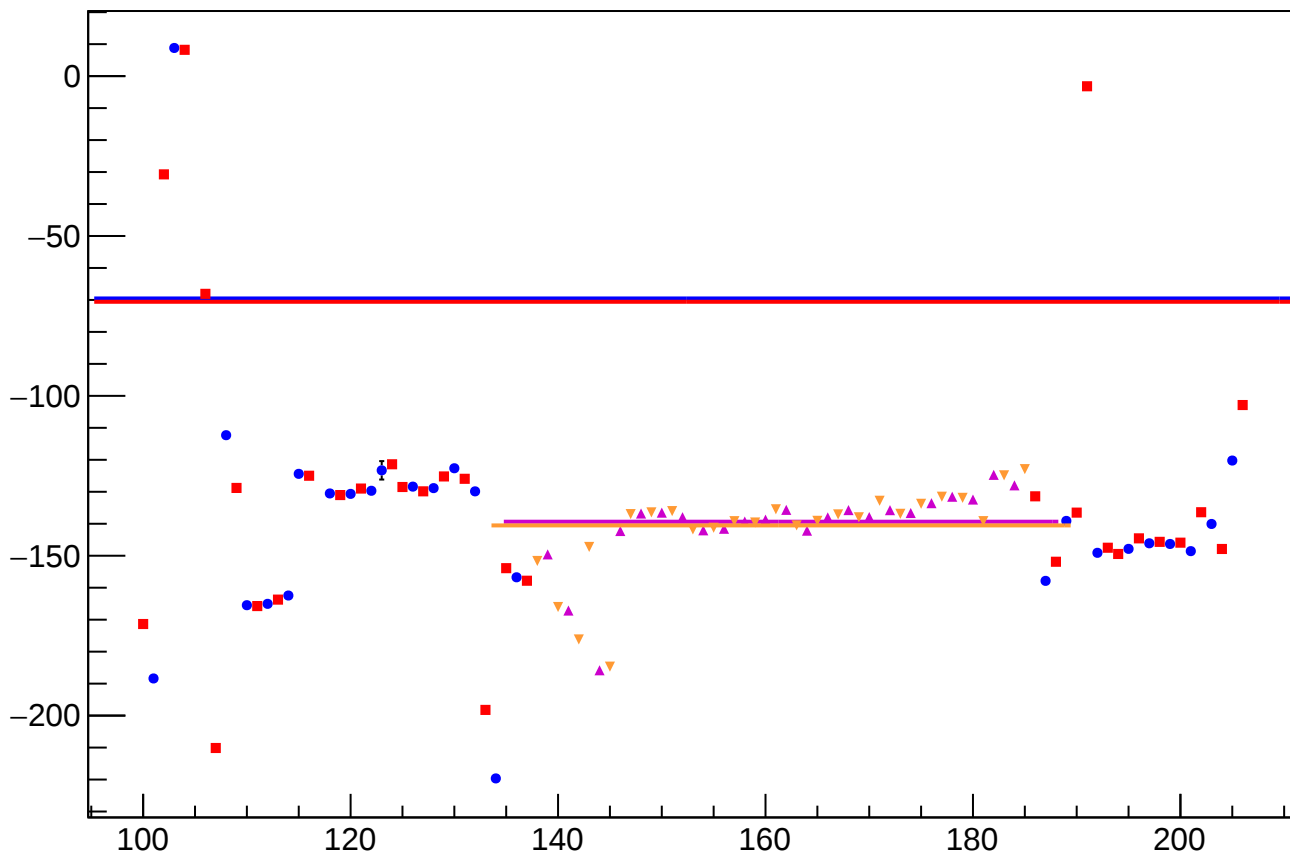
Right: 45.779 $\pm$ 1.062 χ^2 /NDF: 1839.9/56

In: 61.003 $\pm$ 0.821 χ^2 /NDF:1767.8/48

Out: 57.722 $\pm$ 0.784 χ^2 /NDF:2097.8/55

All: 59.289 $\pm$ 0.567 χ^2 /NDF: 3874.0/104

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -69.539 ± 0.064 $\chi^2/\text{NDF}: 1526777.8/25$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -70.573 ± 0.061 $\chi^2/\text{NDF}: 1385751.8/30$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

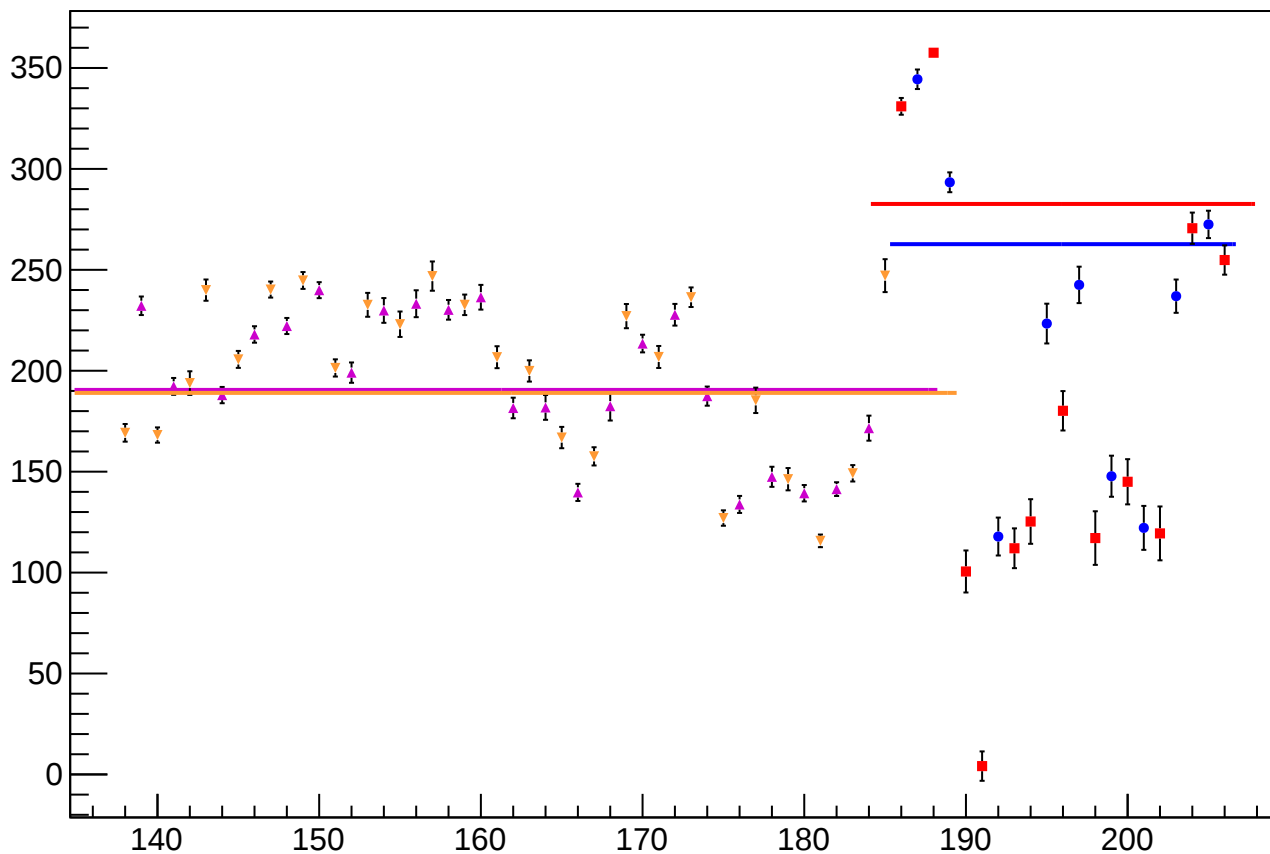
Right: -70.080 ± 0.044 $\chi^2/\text{NDF}: 2912667.1/56$

In: -116.154 ± 0.037 $\chi^2/\text{NDF}: 2389017.9/48$

Out: -116.119 ± 0.036 $\chi^2/\text{NDF}: 2323013.7/55$

All: -116.136 ± 0.026 $\chi^2/\text{NDF}: 4712032.0/10$

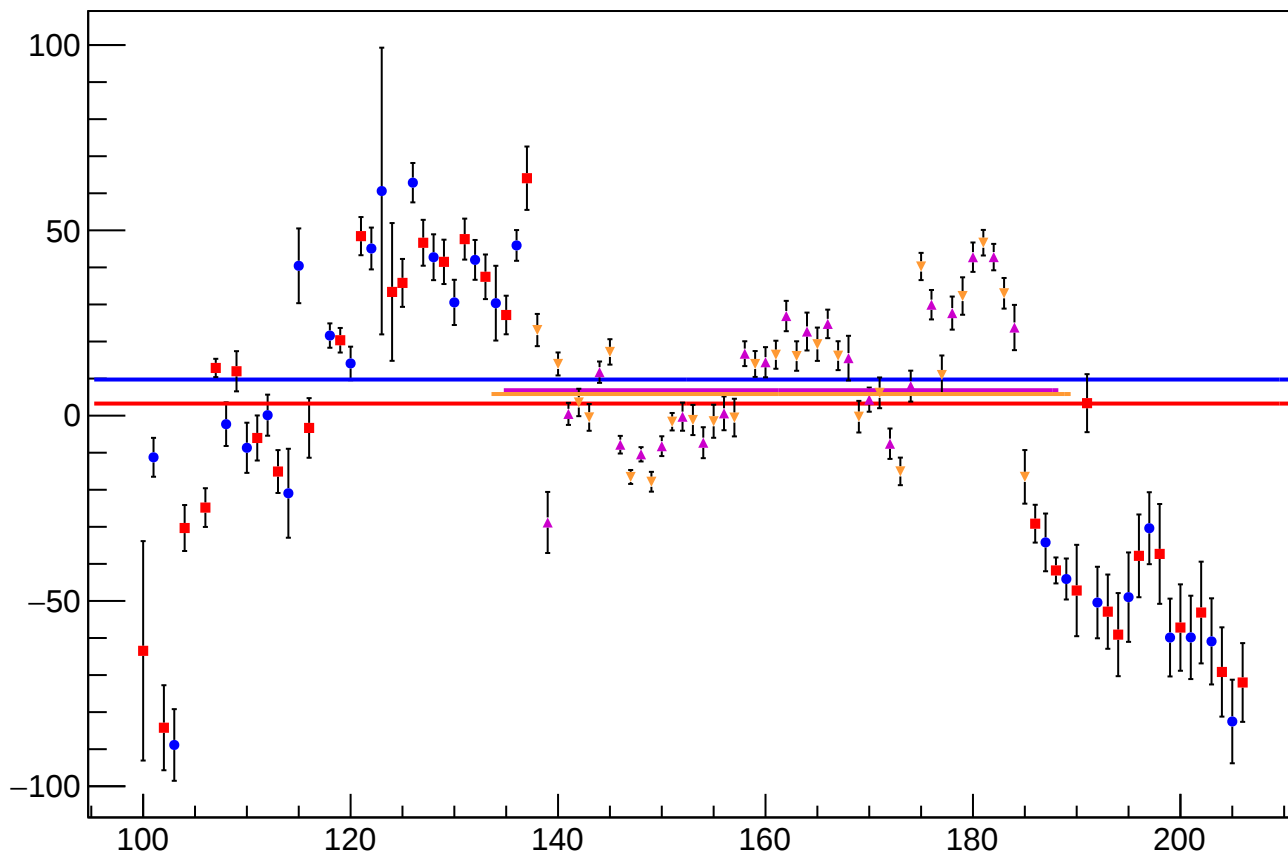
reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 262.715 ± 2.408 $\chi^2/\text{NDF}: 888.7/8$
 Left Out: 189.030 ± 0.956 $\chi^2/\text{NDF}: 1980.9/24$
 Right Out: 282.637 ± 1.743 $\chi^2/\text{NDF}: 3885.5/11$
 Left In: 190.506 ± 0.975 $\chi^2/\text{NDF}: 1412.7/22$

Left: 189.753 ± 0.683 $\chi^2/\text{NDF}: 3394.8/47$
 Right: 275.787 ± 1.412 $\chi^2/\text{NDF}: 4819.1/20$
 In: 200.680 ± 0.904 $\chi^2/\text{NDF}: 3074.1/31$
 Out: 210.677 ± 0.838 $\chi^2/\text{NDF}: 8084.0/36$
 All: 206.055 ± 0.615 $\chi^2/\text{NDF}: 11223.9/68$

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.744 ± 1.269 χ^2/NDF : 854.1/25

Left Out: 5.834 ± 0.712 χ^2/NDF : 652.2/24

Right Out: 3.258 ± 1.075 χ^2/NDF : 979.6/30

Left In: 6.862 ± 0.736 χ^2/NDF : 522.7/22

Left: 6.331 ± 0.512 χ^2/NDF : 1176.0/47

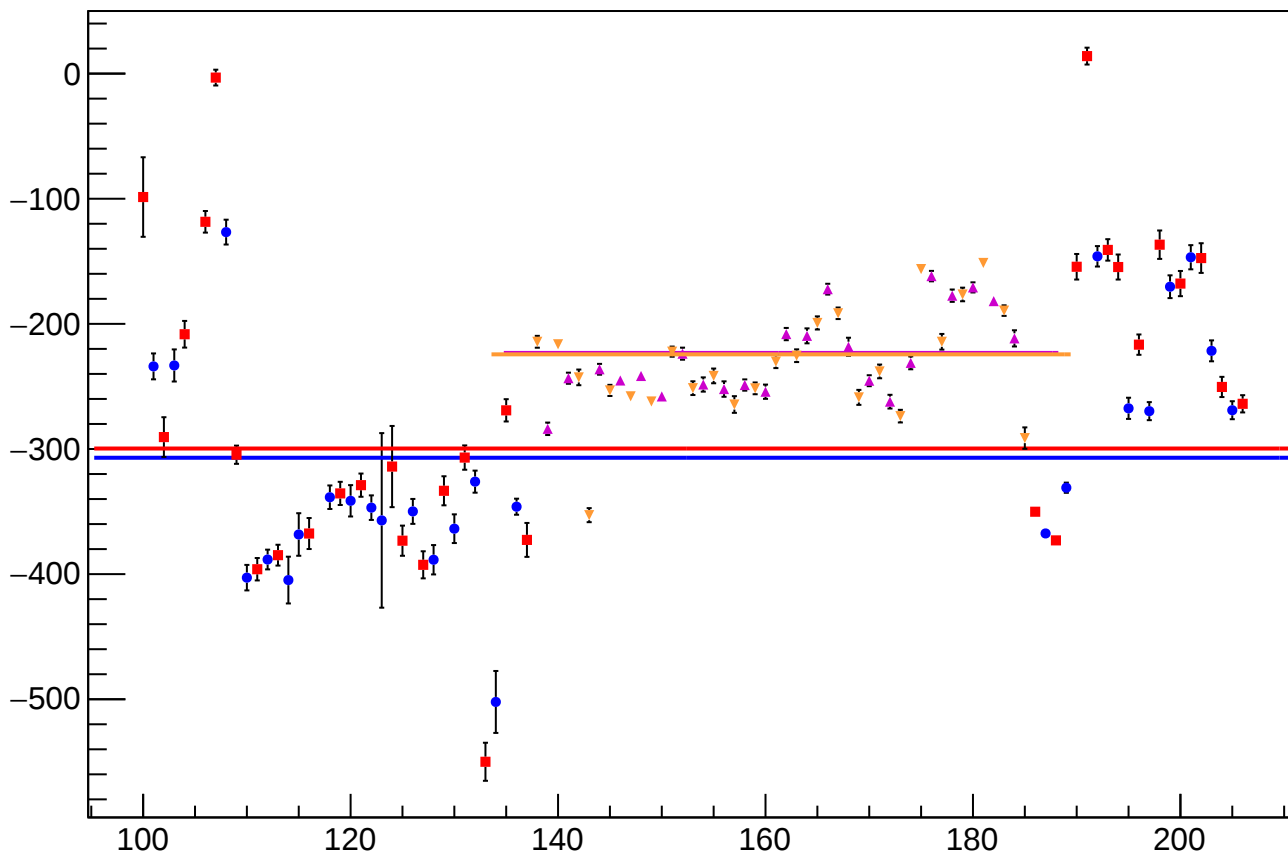
Right: 5.969 ± 0.820 χ^2/NDF : 1848.9/56

In: 7.588 ± 0.637 χ^2/NDF : 1380.7/48

Out: 5.048 ± 0.594 χ^2/NDF : 1635.8/55

All: 6.230 ± 0.434 χ^2/NDF : 3025.1/104

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -306.997 ± 1.627 $\chi^2/\text{NDF}: 2214.8/25$

Left Out: -224.364 ± 0.956 $\chi^2/\text{NDF}: 2103.2/24$

Right Out: -299.618 ± 1.236 $\chi^2/\text{NDF}: 8658.8/30$

Left In: -223.223 ± 0.969 $\chi^2/\text{NDF}: 1269.3/22$

Left: -223.801 ± 0.681 $\chi^2/\text{NDF}: 3373.2/47$

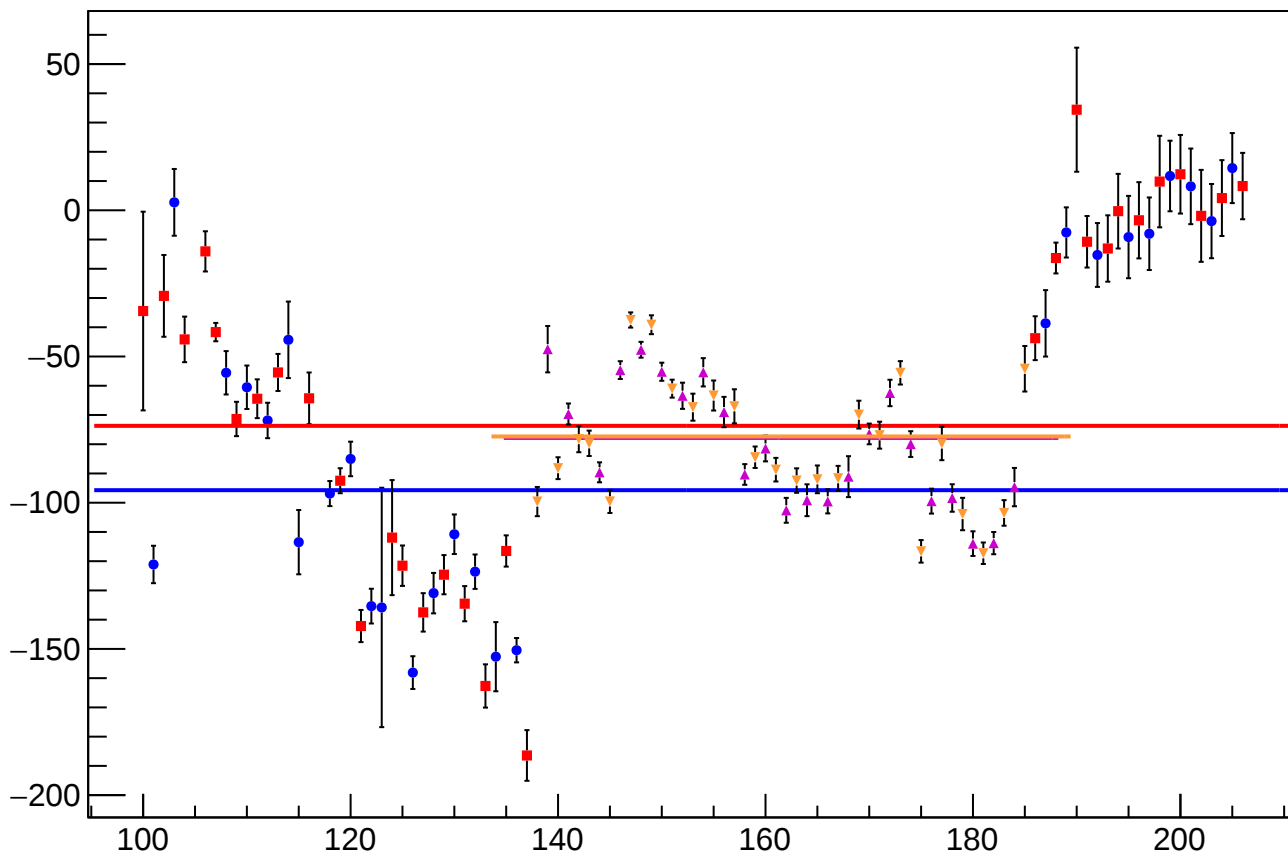
Right: -302.319 ± 0.984 $\chi^2/\text{NDF}: 10886.7/56$

In: -245.165 ± 0.833 $\chi^2/\text{NDF}: 5441.1/48$

Out: -252.525 ± 0.756 $\chi^2/\text{NDF}: 13080.7/55$

All: -249.198 ± 0.560 $\chi^2/\text{NDF}: 18564.6/104$

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -95.715 ± 1.478 $\chi^2/\text{NDF}: 1151.3/25$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -73.709 ± 1.289 $\chi^2/\text{NDF}: 1555.9/30$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

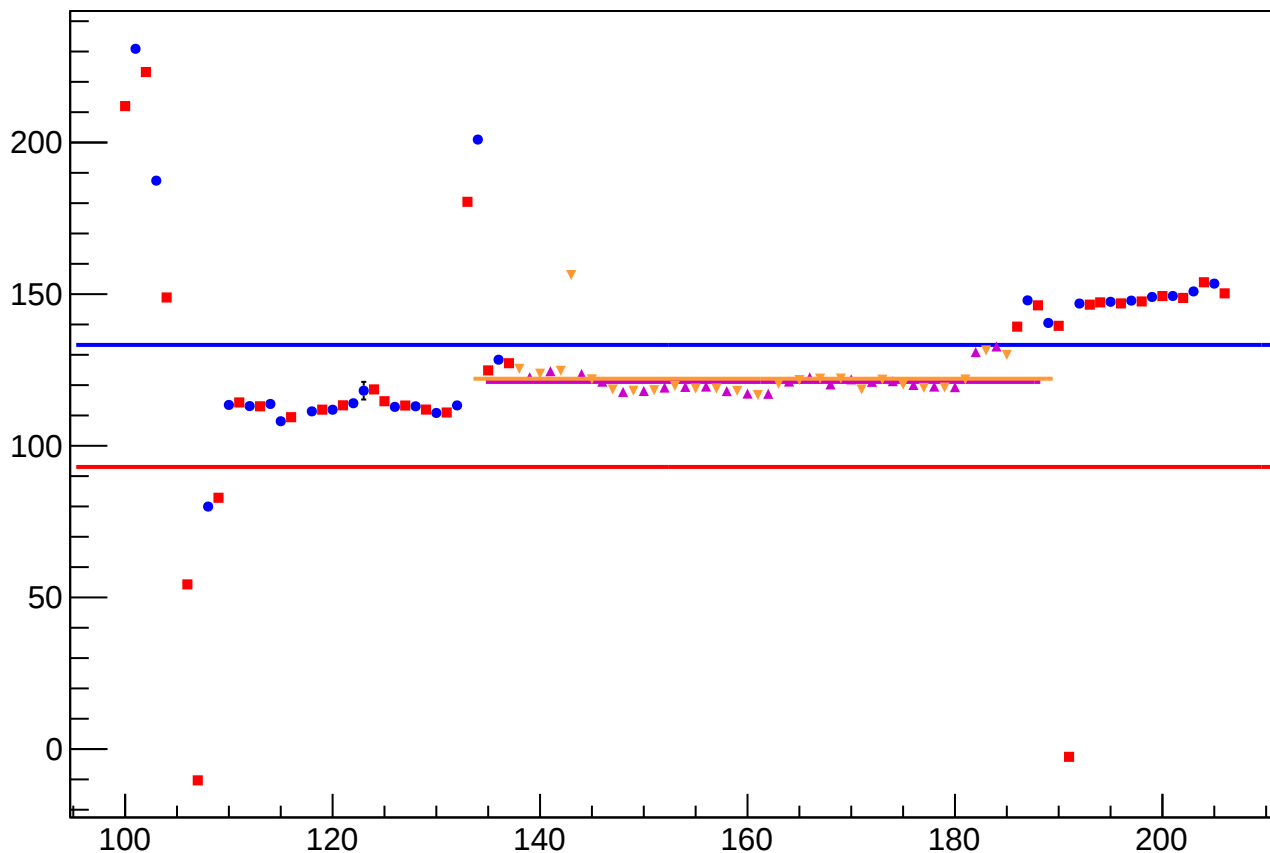
Right: -83.215 ± 0.972 $\chi^2/\text{NDF}: 2833.1/56$

In: -82.270 ± 0.736 $\chi^2/\text{NDF}: 1884.1/48$

Out: -76.285 ± 0.696 $\chi^2/\text{NDF}: 2407.8/55$

All: -79.109 ± 0.506 $\chi^2/\text{NDF}: 4326.8/104$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 133.263 $\pm$ 0.076 χ^2 /NDF: 203337.2/25

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 93.030 $\pm$ 0.062 χ^2 /NDF: 1129929.8/30

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

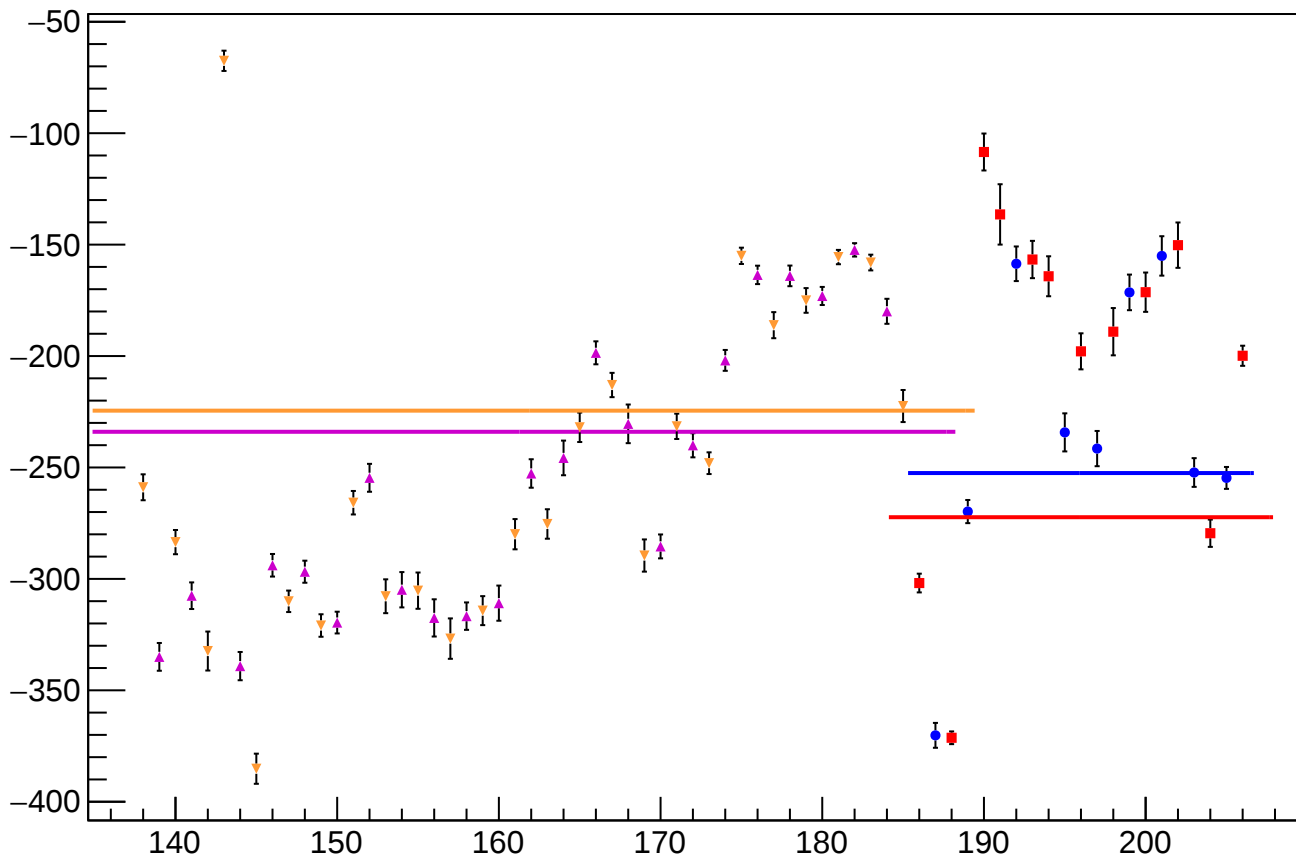
Right: 109.321 $\pm$ 0.048 χ^2 /NDF: 1501819.0/56

In: 123.698 $\pm$ 0.035 χ^2 /NDF:231701.9/48

Out: 113.816 $\pm$ 0.033 χ^2 /NDF:1315899.8/55

All: 118.489 $\pm$ 0.024 χ^2 /NDF: 1589207.9/104

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -252.503 ± 2.186 χ^2/NDF : 832.7/8

Left Out: -224.501 ± 1.079 χ^2/NDF : 4870.6/24

Right Out: -272.322 ± 1.694 χ^2/NDF : 2761.4/11

Left In: -233.988 ± 1.109 χ^2/NDF : 3538.4/22

Left: -229.116 ± 0.773 χ^2/NDF : 8446.6/47

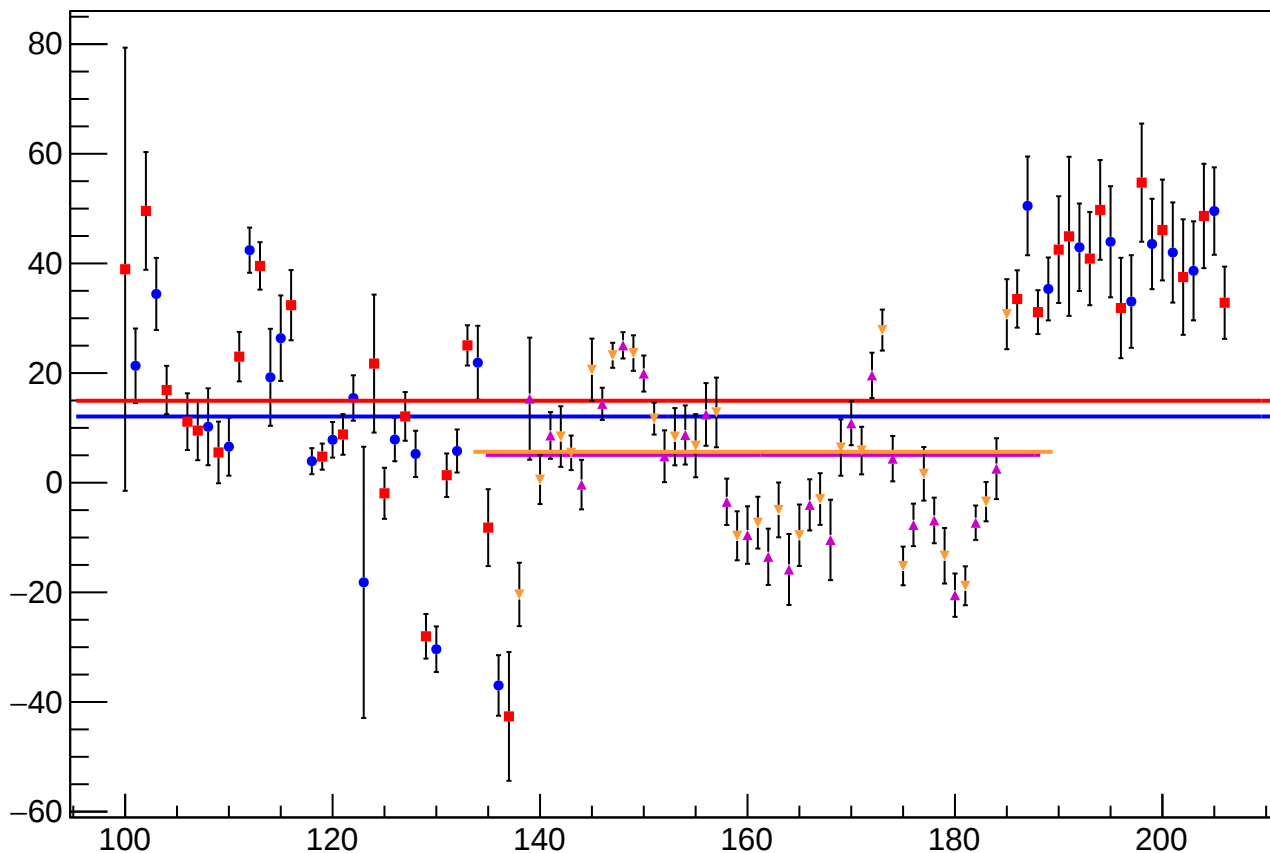
Right: -264.887 ± 1.339 χ^2/NDF : 3645.5/20

In: -237.776 ± 0.989 χ^2/NDF : 4428.2/31

Out: -238.307 ± 0.910 χ^2/NDF : 8199.0/36

All: -238.063 ± 0.670 χ^2/NDF : 12627.4/68

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.075+/-1.023 χ^2/NDF : 401.5/25

Left Out: 5.638+/-0.828 χ^2/NDF :313.6/24

Right Out: 14.950+/-0.960 χ^2/NDF : 376.9/30

Left In: 5.077+/-0.869 χ^2/NDF :239.7/22

Left: 5.371+/-0.599 χ^2/NDF : 553.6/47

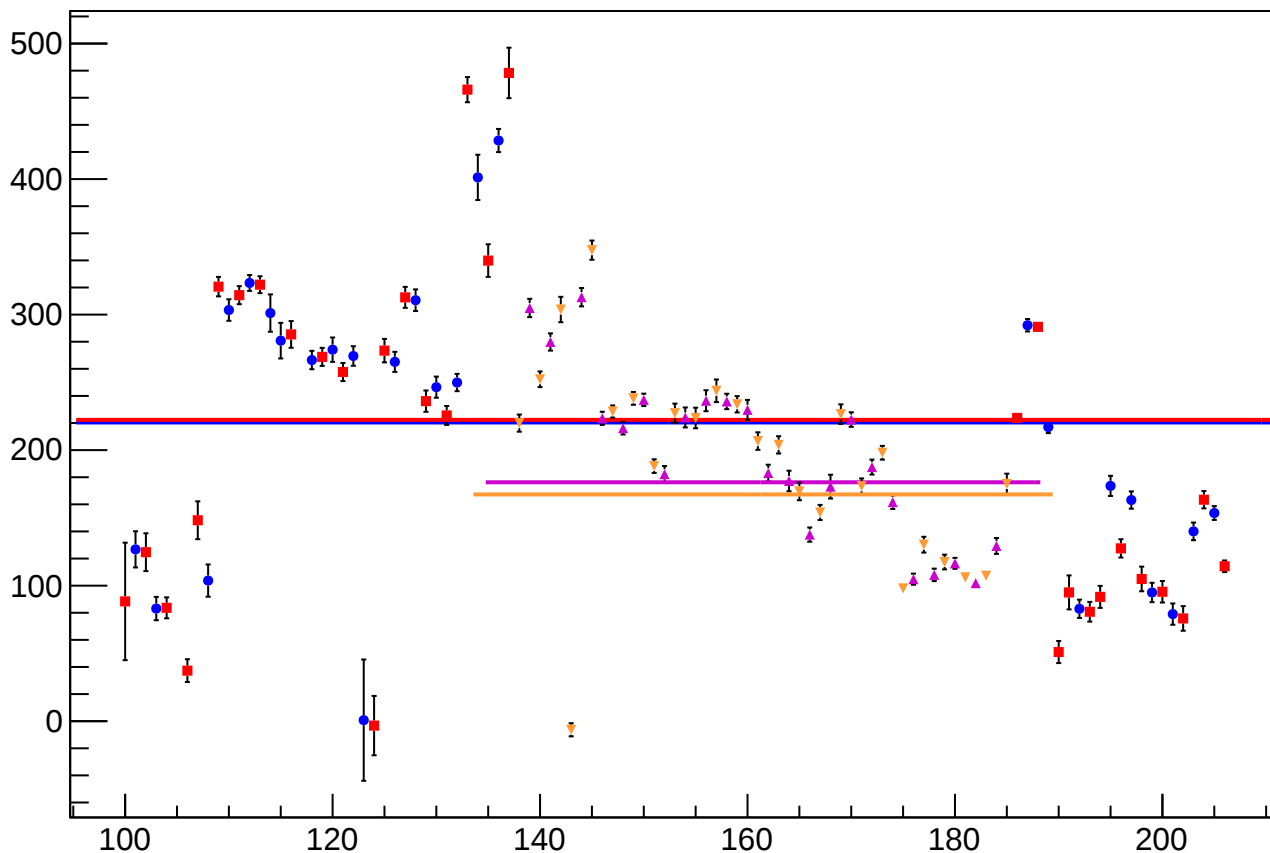
Right: 13.603+/-0.700 χ^2/NDF : 782.6/56

In: 8.010+/-0.662 χ^2/NDF :668.4/48

Out: 9.608+/-0.627 χ^2/NDF :744.5/55

All: 8.853+/-0.455 χ^2/NDF : 1415.9/104

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 220.418+/-1.430 χ^2/NDF : 3666.0/25

Left Out: 167.327+/-1.082 χ^2/NDF :4454.5/24

Right Out: 222.339+/-1.171 χ^2/NDF : 6570.9/30

Left In: 176.272+/-1.106 χ^2/NDF :3169.5/22

Left: 171.704+/-0.774 χ^2/NDF : 7657.4/47

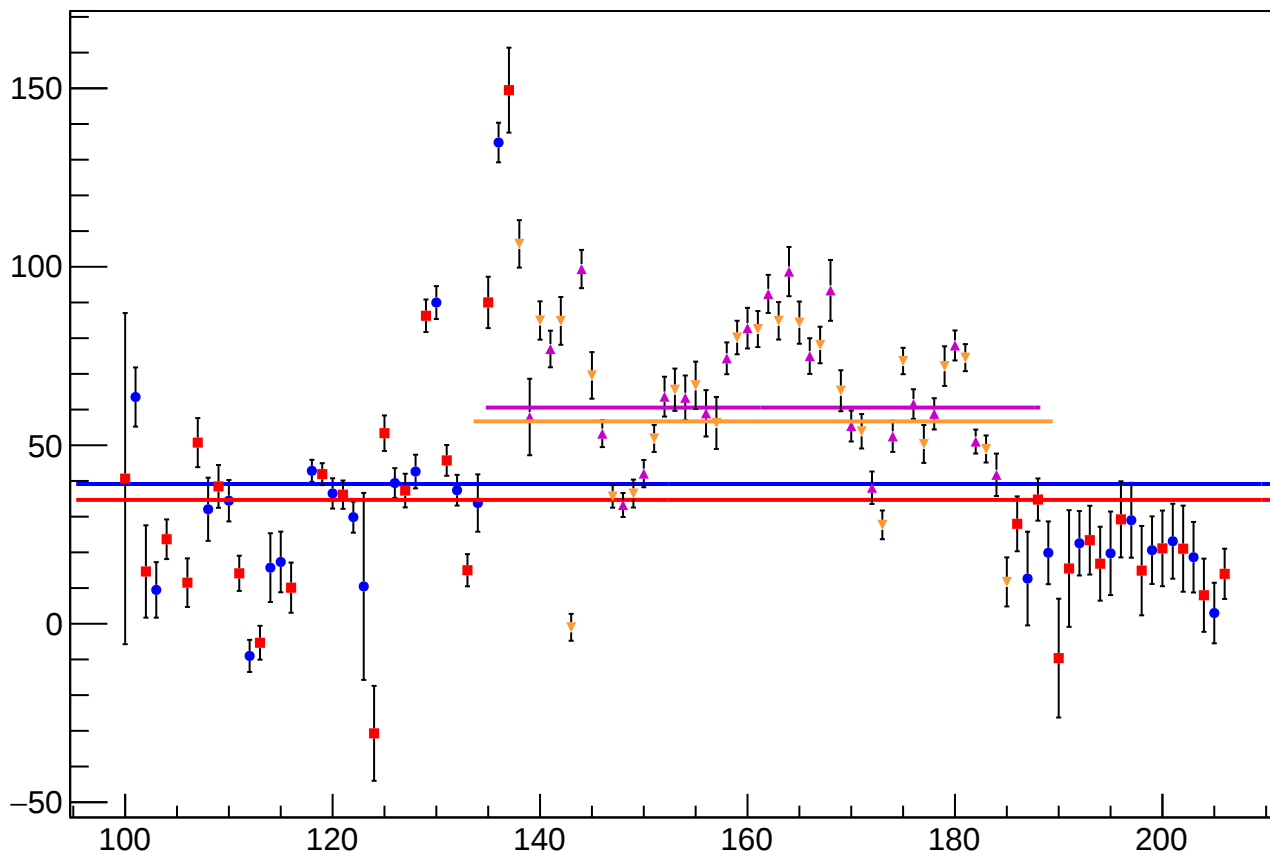
Right: 221.568+/-0.906 χ^2/NDF : 10238.0/56

In: 192.785+/-0.875 χ^2/NDF :7431.7/48

Out: 192.666+/-0.795 χ^2/NDF :12215.0/55

All: 192.720+/-0.588 χ^2/NDF : 19646.7/104

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 39.149 ± 1.191 $\chi^2/\text{NDF}: 623.6/25$

Left Out: 56.695 ± 0.952 $\chi^2/\text{NDF}: 690.4/24$

Right Out: 34.698 ± 1.127 $\chi^2/\text{NDF}: 509.7/30$

Left In: 60.555 ± 0.990 $\chi^2/\text{NDF}: 335.6/22$

Left: 58.548 ± 0.686 $\chi^2/\text{NDF}: 1034.0/47$

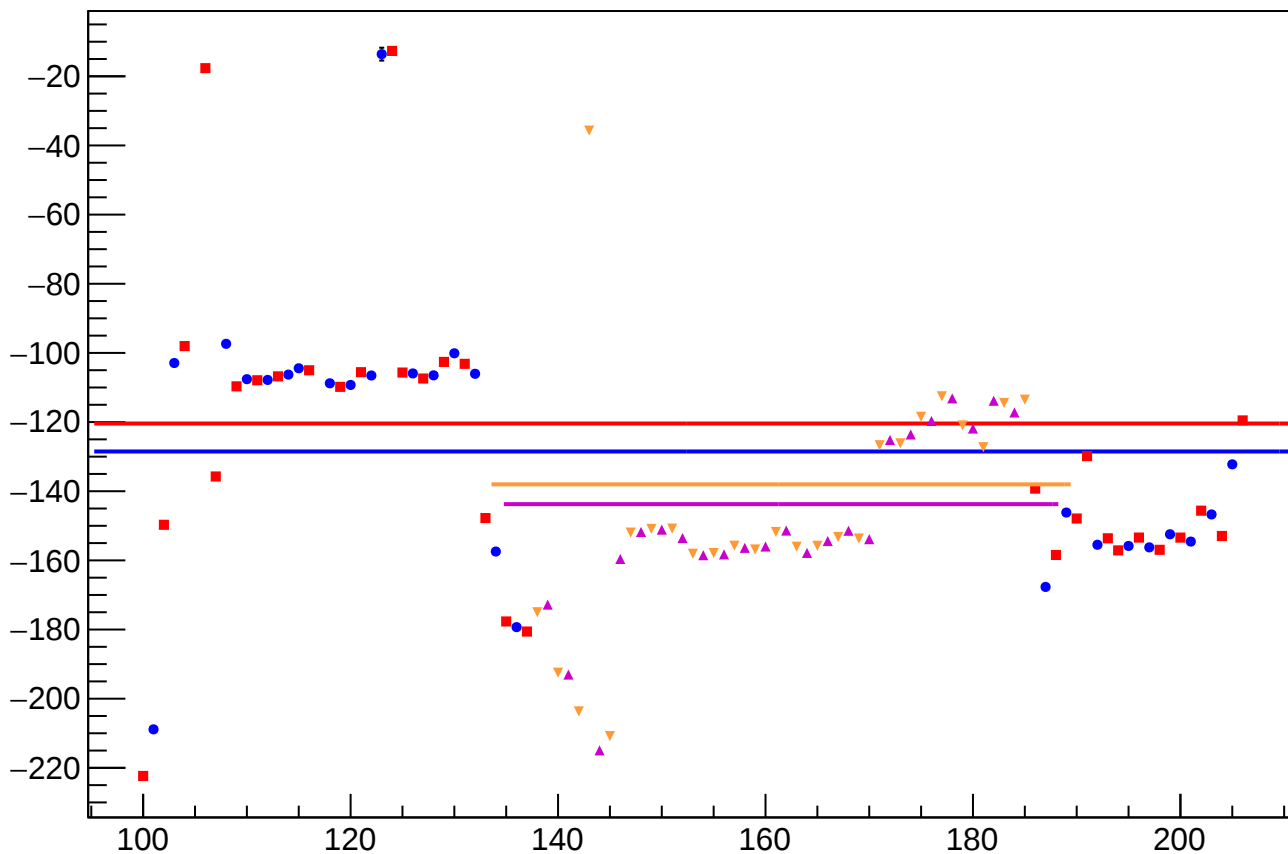
Right: 36.801 ± 0.818 $\chi^2/\text{NDF}: 1140.6/56$

In: 51.803 ± 0.761 $\chi^2/\text{NDF}: 1150.3/48$

Out: 47.538 ± 0.727 $\chi^2/\text{NDF}: 1422.4/55$

All: 49.573 ± 0.526 $\chi^2/\text{NDF}: 2589.2/104$

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -128.504+/-0.065 χ^2/NDF : 205095.6/25

Left Out: -138.008+/-0.045 χ^2/NDF :565767.2/24

Right Out: -120.414+/-0.059 χ^2/NDF : 455065.4/30

Left In: -143.735+/-0.046 χ^2/NDF :258408.3/22

Left: -140.811+/-0.032 χ^2/NDF : 832055.2/47

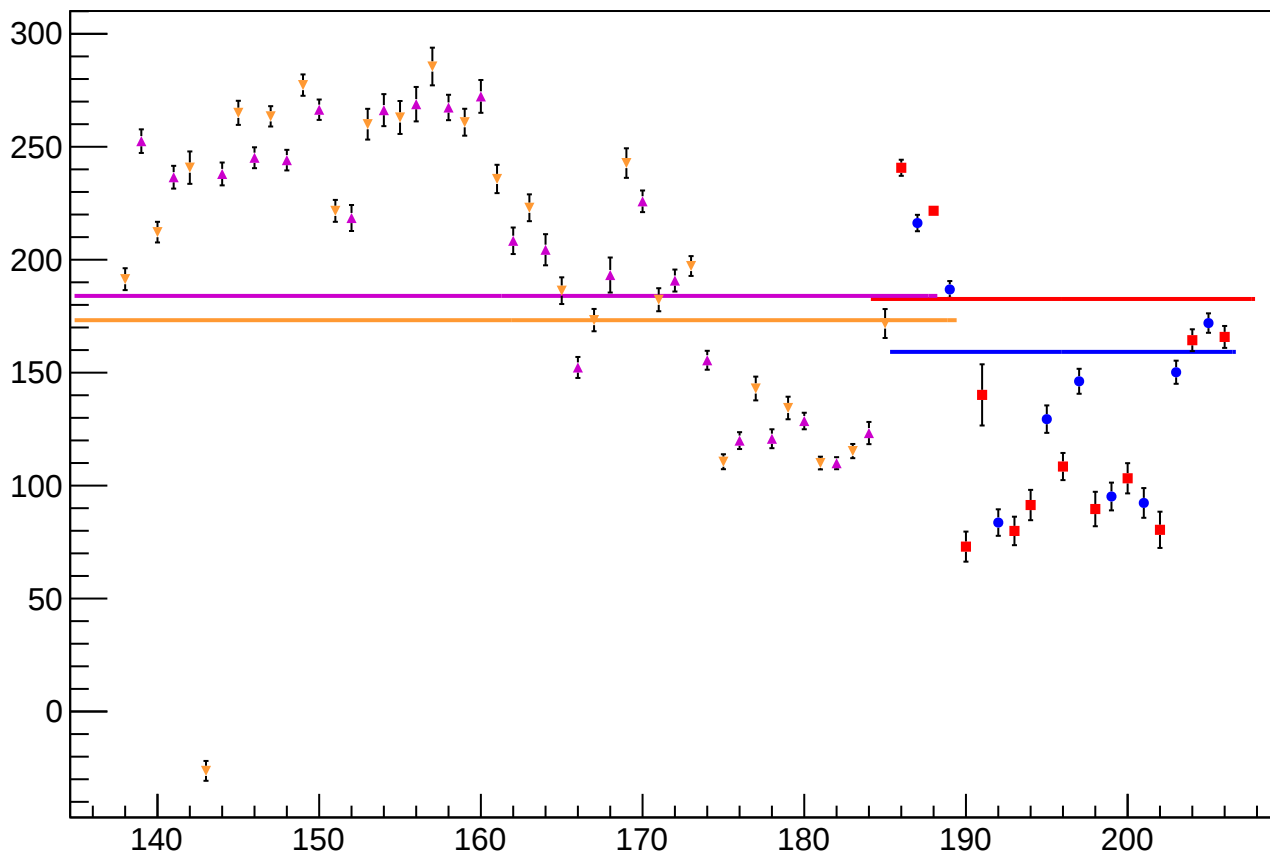
Right: -124.065+/-0.044 χ^2/NDF : 668709.4/56

In: -138.619+/-0.038 χ^2/NDF :500173.9/48

Out: -131.483+/-0.036 χ^2/NDF :1077203.5/55

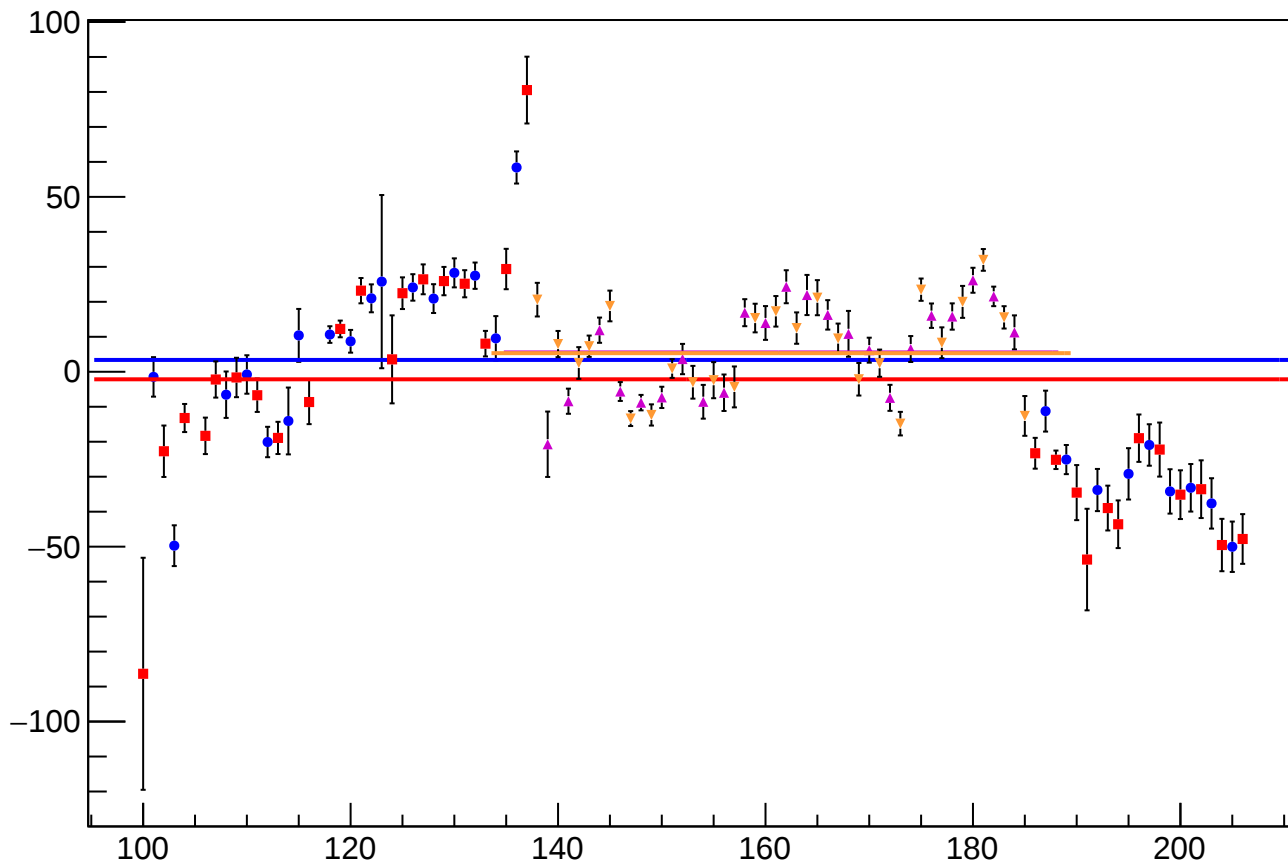
All: -134.879+/-0.026 χ^2/NDF : 1596287.7/10

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Left: 178.467 ± 0.692 $\chi^2/\text{NDF}: 9520.1/47$
 Right: 173.658 ± 1.006 $\chi^2/\text{NDF}: 2915.7/20$
 In: 177.268 ± 0.846 $\chi^2/\text{NDF}: 4504.1/31$
 Out: 176.637 ± 0.771 $\chi^2/\text{NDF}: 7946.9/36$
 All: 176.923 ± 0.570 $\chi^2/\text{NDF}: 12451.3/68$

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.383 $\pm$ 0.949 χ^2 /NDF: 700.8/25

Left Out: 5.321 $\pm$ 0.747 χ^2 /NDF:345.5/24

Right Out: -2.155 $\pm$ 0.883 χ^2 /NDF: 746.6/30

Left In: 5.527 $\pm$ 0.781 χ^2 /NDF:256.3/22

Left: 5.420 $\pm$ 0.540 χ^2 /NDF: 601.9/47

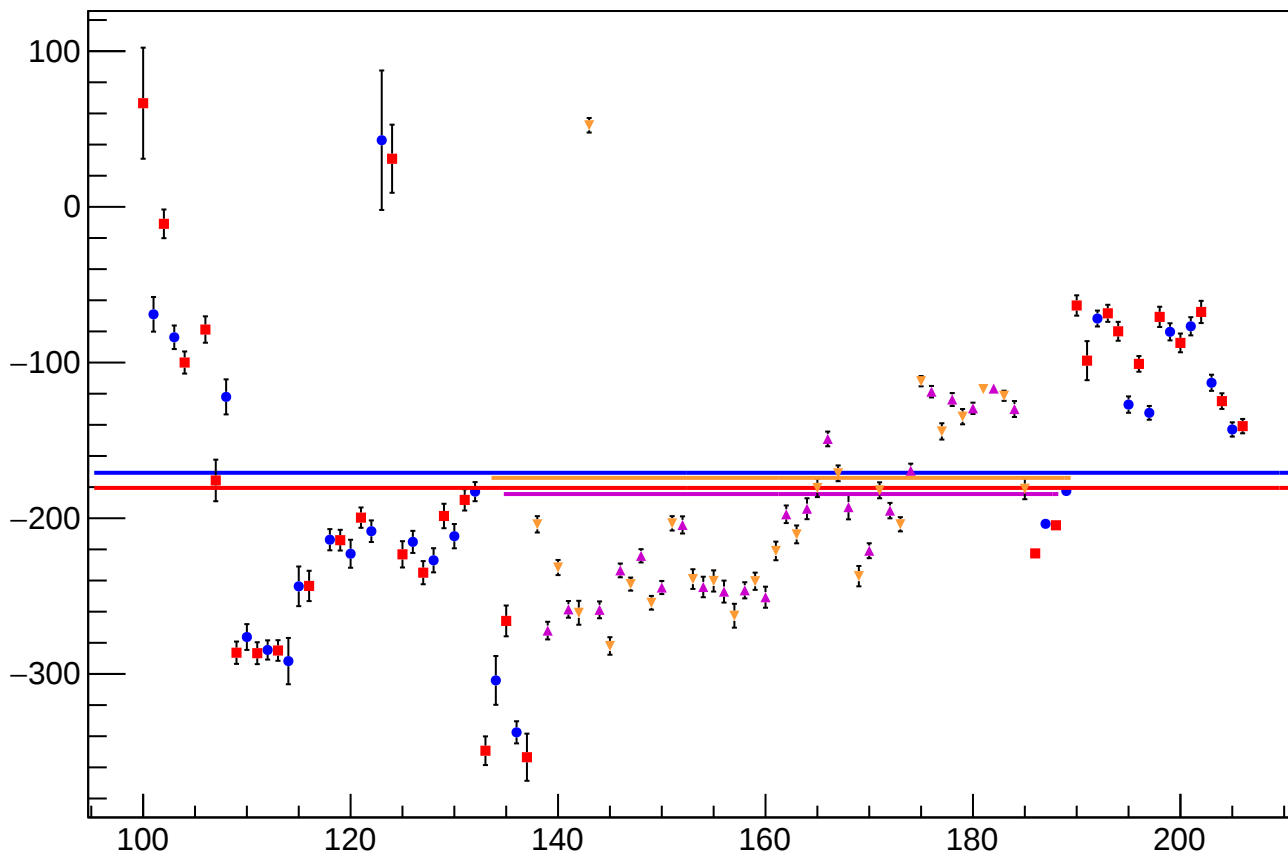
Right: 0.415 $\pm$ 0.647 χ^2 /NDF: 1465.6/56

In: 4.661 $\pm$ 0.603 χ^2 /NDF:960.2/48

Out: 2.202 $\pm$ 0.570 χ^2 /NDF:1133.9/55

All: 3.363 $\pm$ 0.414 χ^2 /NDF: 2102.8/104

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -170.798 ± 1.169 χ^2/NDF : 3052.7/25

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -180.513 ± 0.943 χ^2/NDF : 4904.2/30

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

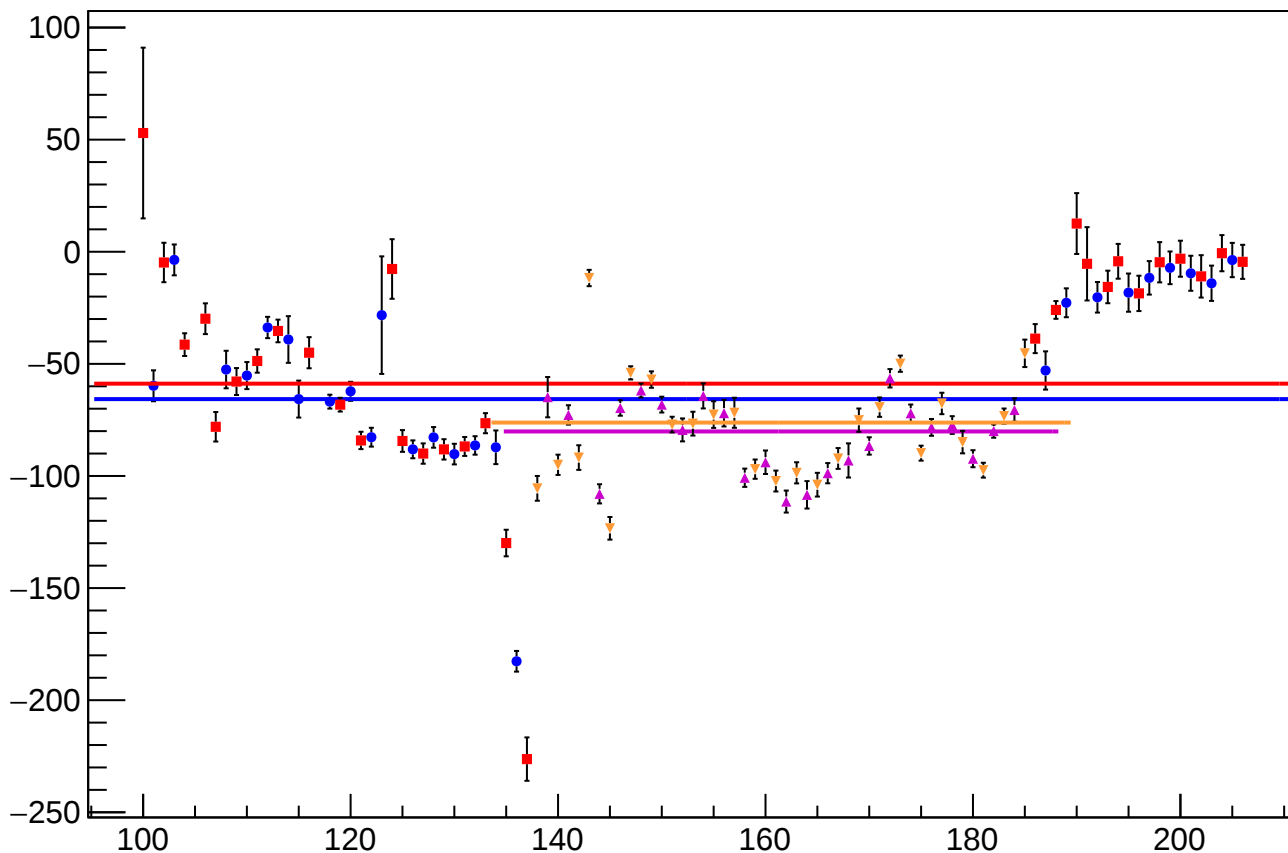
Right: -176.684 ± 0.734 χ^2/NDF : 7998.8/56

In: -178.748 ± 0.756 χ^2/NDF : 6183.8/48

Out: -177.382 ± 0.676 χ^2/NDF : 10370.2/55

All: -177.989 ± 0.504 χ^2/NDF : 16555.8/104

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -65.723 ± 1.111 $\chi^2/\text{NDF}: 1307.8/25$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -58.827 ± 1.051 $\chi^2/\text{NDF}: 1242.0/30$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

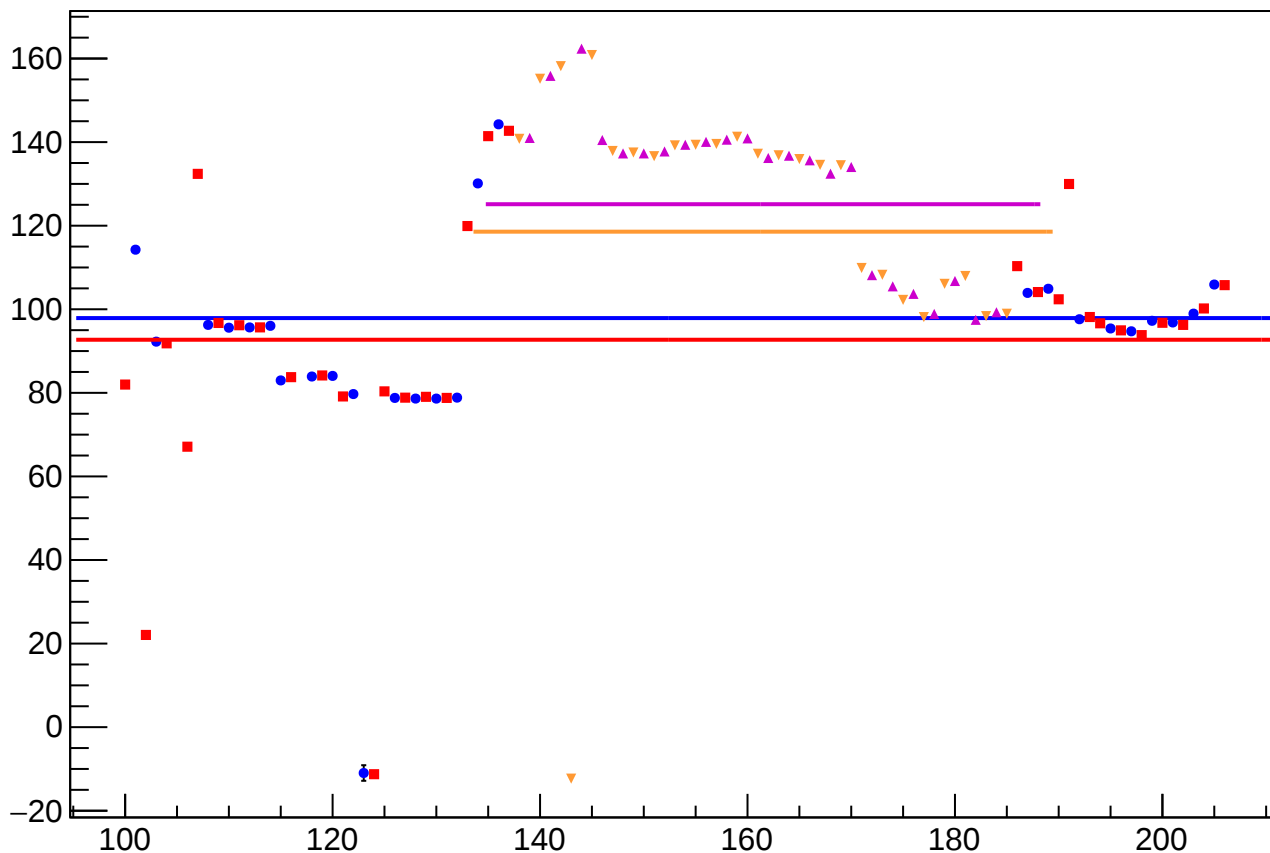
Right: -62.085 ± 0.763 $\chi^2/\text{NDF}: 2570.1/56$

In: -74.515 ± 0.694 $\chi^2/\text{NDF}: 1693.9/48$

Out: -69.249 ± 0.664 $\chi^2/\text{NDF}: 2206.7/55$

All: -71.767 ± 0.480 $\chi^2/\text{NDF}: 3930.6/104$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 97.891 $\pm$ 0.057 χ^2 /NDF: 95353.2/25

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 92.708 $\pm$ 0.052 χ^2 /NDF: 243165.7/30

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

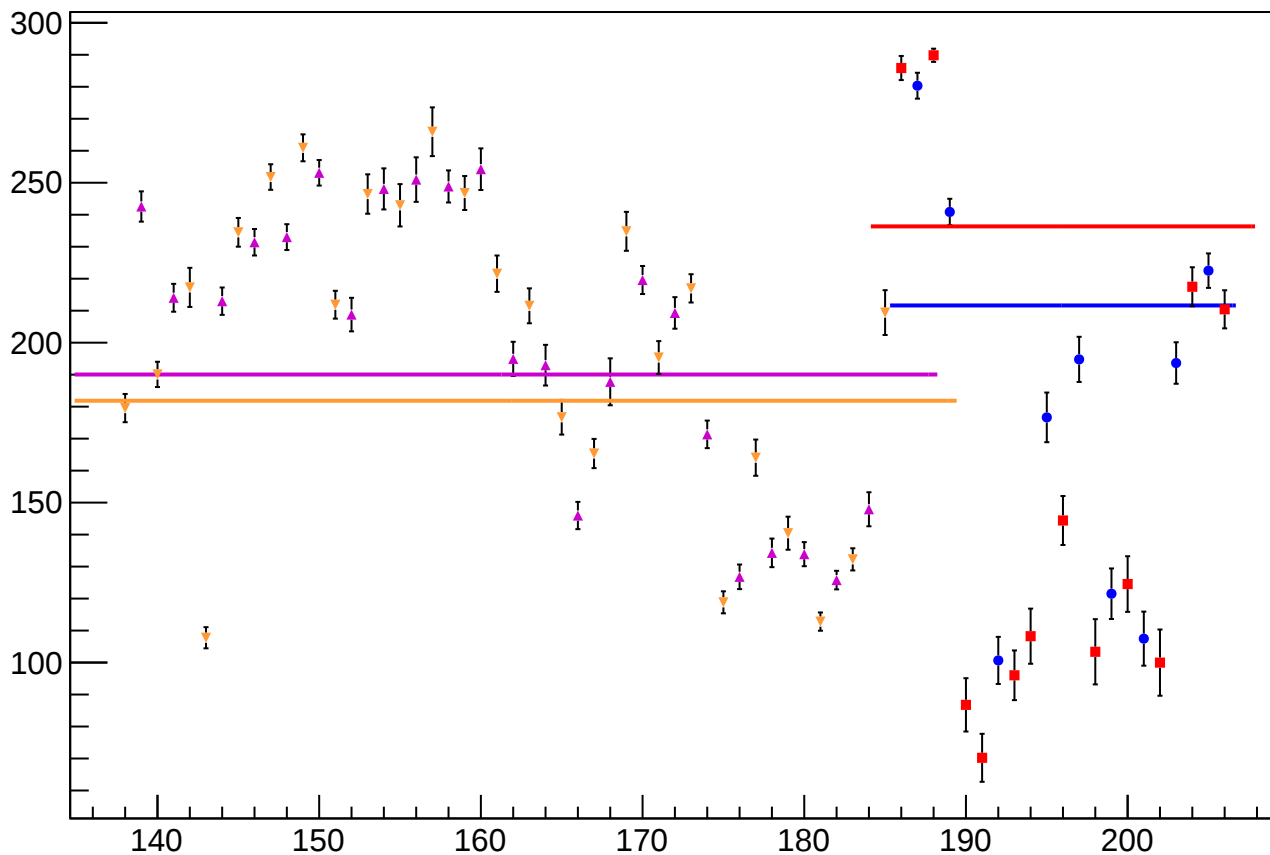
Right: 95.063 $\pm$ 0.038 χ^2 /NDF: 343100.7/56

In: 115.669 $\pm$ 0.033 χ^2 /NDF: 467680.5/48

Out: 108.716 $\pm$ 0.032 χ^2 /NDF: 1127255.4/55

All: 112.034 $\pm$ 0.023 χ^2 /NDF: 1617668.3/104

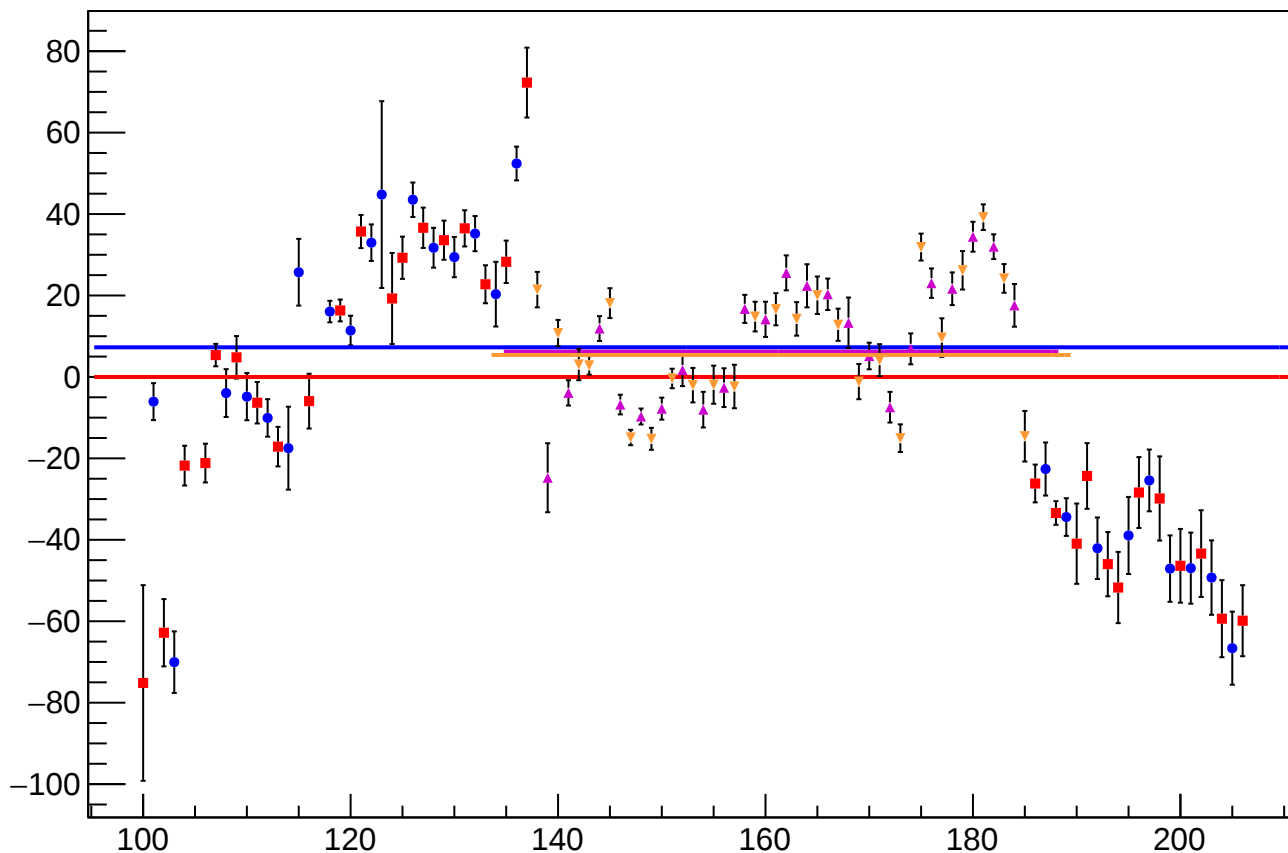
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 211.635 $\pm$ 1.948 χ^2 /NDF: 885.8/8
 Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF:3303.4/24
 Right Out: 236.352 $\pm$ 1.457 χ^2 /NDF: 2883.9/11
 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: 227.482 $\pm$ 1.167 χ^2 /NDF: 3872.9/20
 In: 194.216 $\pm$ 0.856 χ^2 /NDF:3423.3/31
 Out: 197.222 $\pm$ 0.774 χ^2 /NDF:7191.6/36
 All: 195.870 $\pm$ 0.574 χ^2 /NDF: 10621.6/68

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.277 ± 1.053 χ^2/NDF : 851.9/25

Left Out: 5.394 ± 0.688 χ^2/NDF : 526.5/24

Right Out: -0.010 ± 0.938 χ^2/NDF : 978.6/30

Left In: 6.206 ± 0.732 χ^2/NDF : 407.5/22

Left: 5.775 ± 0.501 χ^2/NDF : 934.7/47

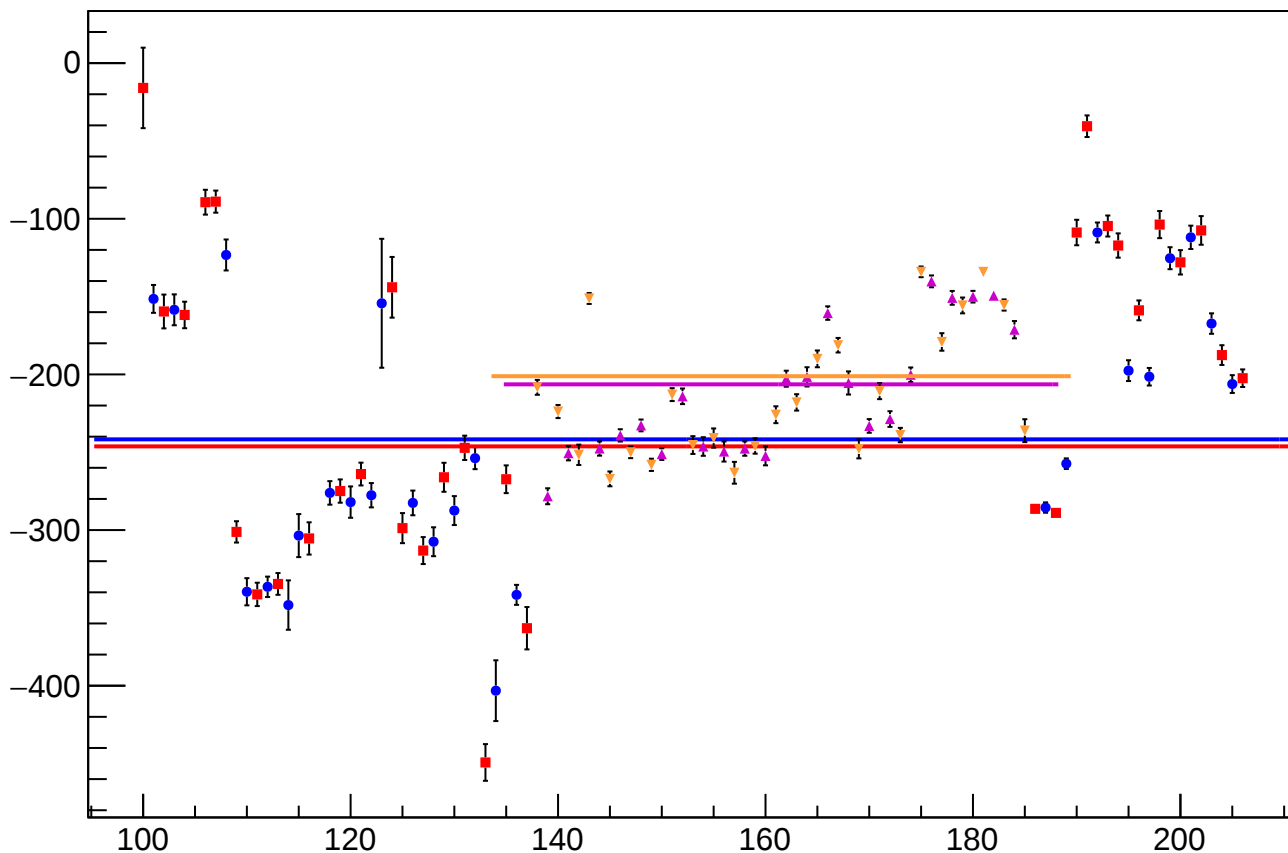
Right: 3.213 ± 0.700 χ^2/NDF : 1857.2/56

In: 6.555 ± 0.601 χ^2/NDF : 1260.1/48

Out: 3.503 ± 0.555 χ^2/NDF : 1526.6/55

All: 4.907 ± 0.408 χ^2/NDF : 2800.7/104

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -241.728 ± 1.343 $\chi^2/\text{NDF}: 2647.5/25$

Left Out: -201.144 ± 0.918 $\chi^2/\text{NDF}: 2488.8/24$

Right Out: -246.228 ± 1.046 $\chi^2/\text{NDF}: 5821.8/30$

Left In: -206.379 ± 0.950 $\chi^2/\text{NDF}: 2111.6/22$

Left: -203.672 ± 0.660 $\chi^2/\text{NDF}: 4616.1/47$

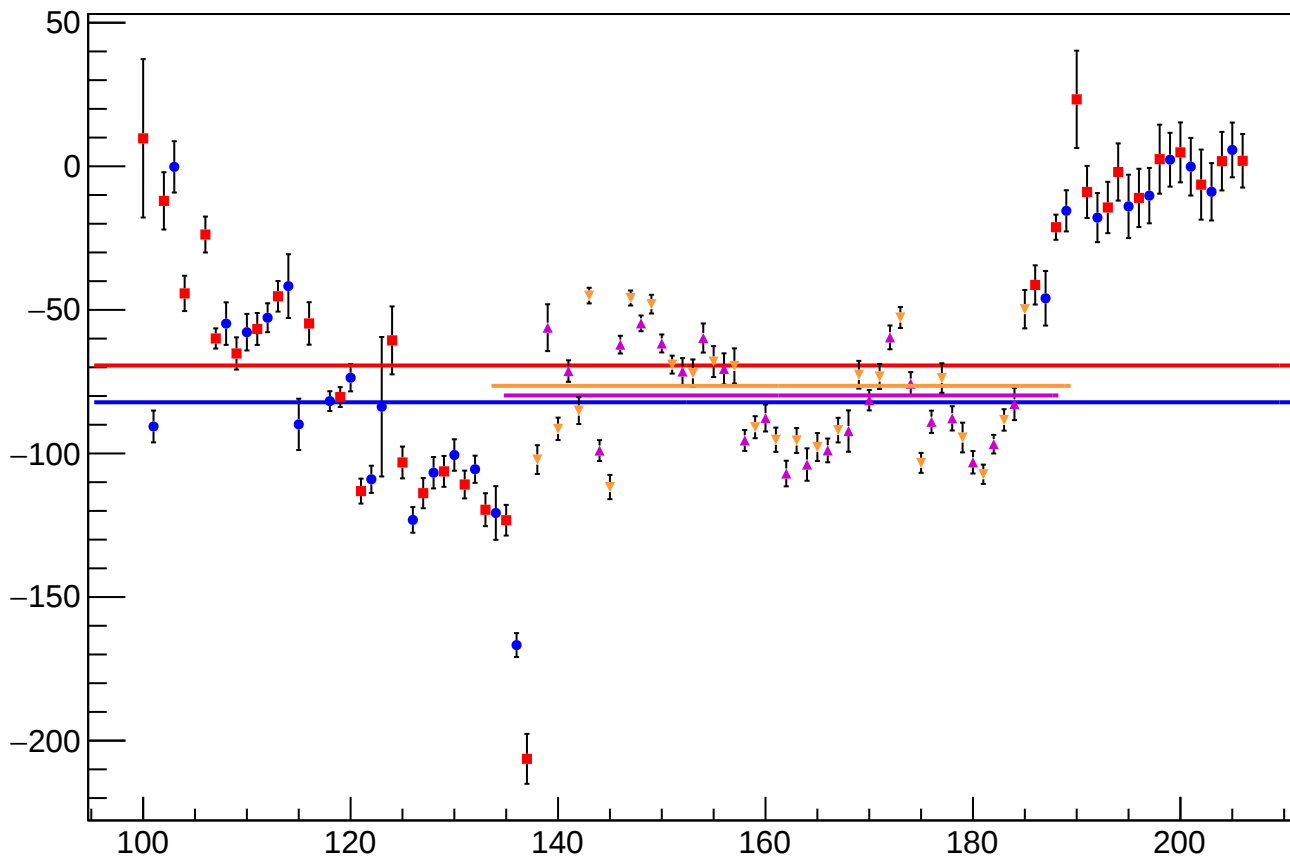
Right: -244.528 ± 0.825 $\chi^2/\text{NDF}: 8476.3/56$

In: -218.162 ± 0.775 $\chi^2/\text{NDF}: 5221.0/48$

Out: -220.750 ± 0.690 $\chi^2/\text{NDF}: 9359.8/55$

All: -219.606 ± 0.515 $\chi^2/\text{NDF}: 14587.0/104$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -82.174 ± 1.231 $\chi^2/\text{NDF}: 1306.2/25$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -69.355 ± 1.120 $\chi^2/\text{NDF}: 1465.8/30$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

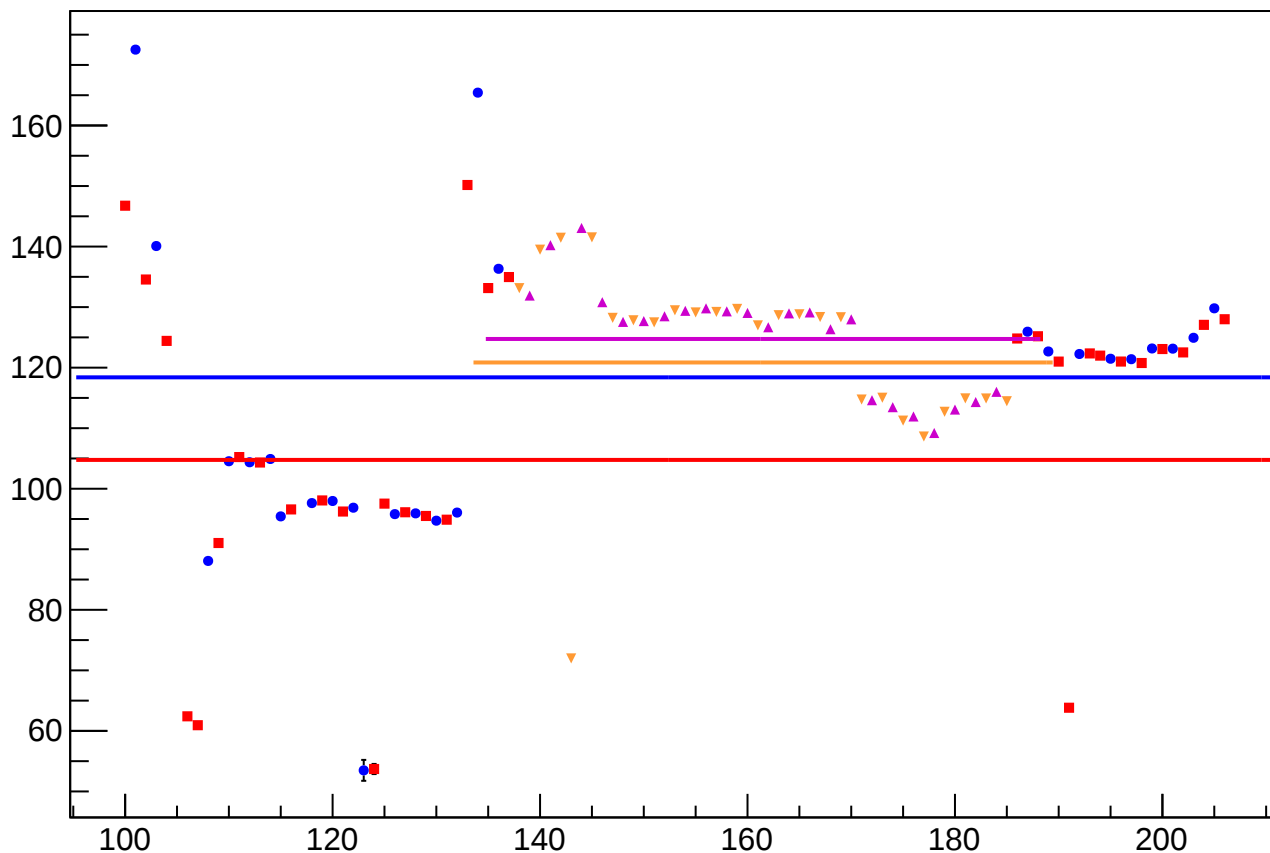
Right: -75.160 ± 0.829 $\chi^2/\text{NDF}: 2831.3/56$

In: -80.548 ± 0.694 $\chi^2/\text{NDF}: 1721.0/48$

Out: -74.073 ± 0.649 $\chi^2/\text{NDF}: 2273.9/55$

All: -77.096 ± 0.474 $\chi^2/\text{NDF}: 4041.3/104$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 118.399 $\pm$ 0.064 χ^2 /NDF: 108837.3/25

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 104.761 $\pm$ 0.055 χ^2 /NDF: 242749.2/30

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

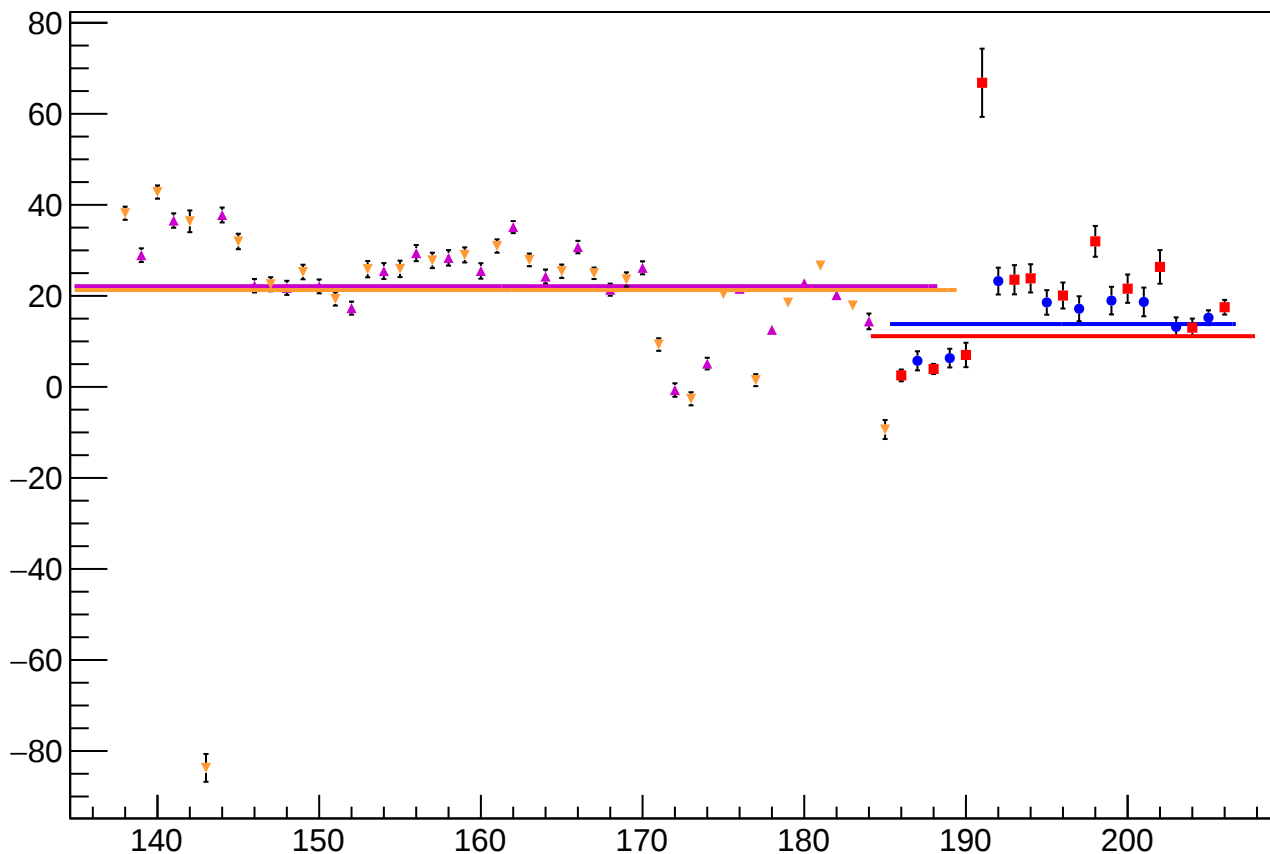
Right: 110.550 $\pm$ 0.042 χ^2 /NDF: 377623.7/56

In: 123.010 $\pm$ 0.033 χ^2 /NDF:167246.1/48

Out: 115.653 $\pm$ 0.031 χ^2 /NDF:483318.3/55

All: 119.086 $\pm$ 0.023 χ^2 /NDF: 676327.4/104

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.808 $\pm$ 0.776 χ^2 /NDF: 49.0/8

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 11.145 $\pm$ 0.600 χ^2 /NDF: 267.7/11

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

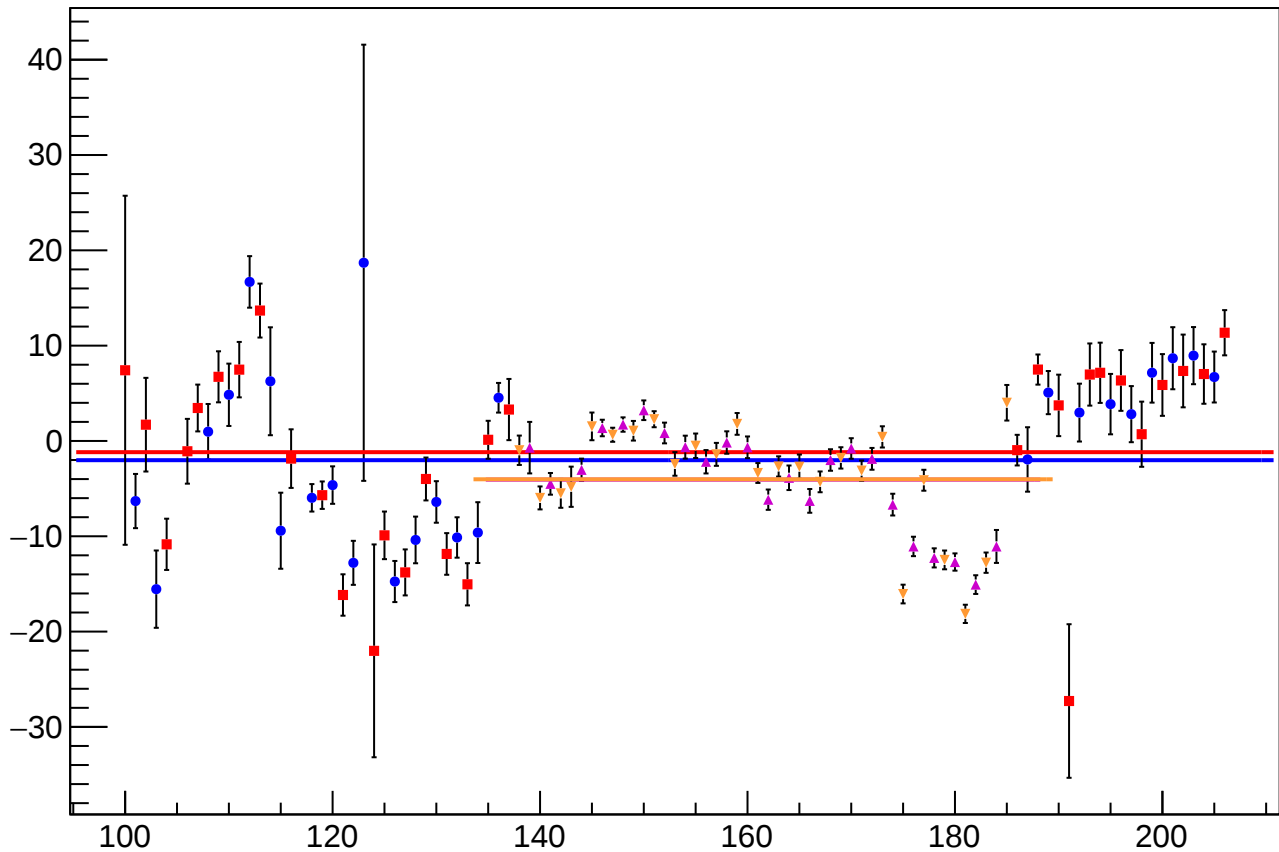
Right: 12.141 $\pm$ 0.474 χ^2 /NDF: 324.1/20

In: 21.134 $\pm$ 0.268 χ^2 /NDF:1050.6/31

Out: 19.441 $\pm$ 0.255 χ^2 /NDF:3102.1/36

All: 20.247 $\pm$ 0.185 χ^2 /NDF: 4173.6/68

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.018 ± 0.504 $\chi^2/\text{NDF}: 254.8/25$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -1.176 ± 0.464 $\chi^2/\text{NDF}: 336.2/30$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

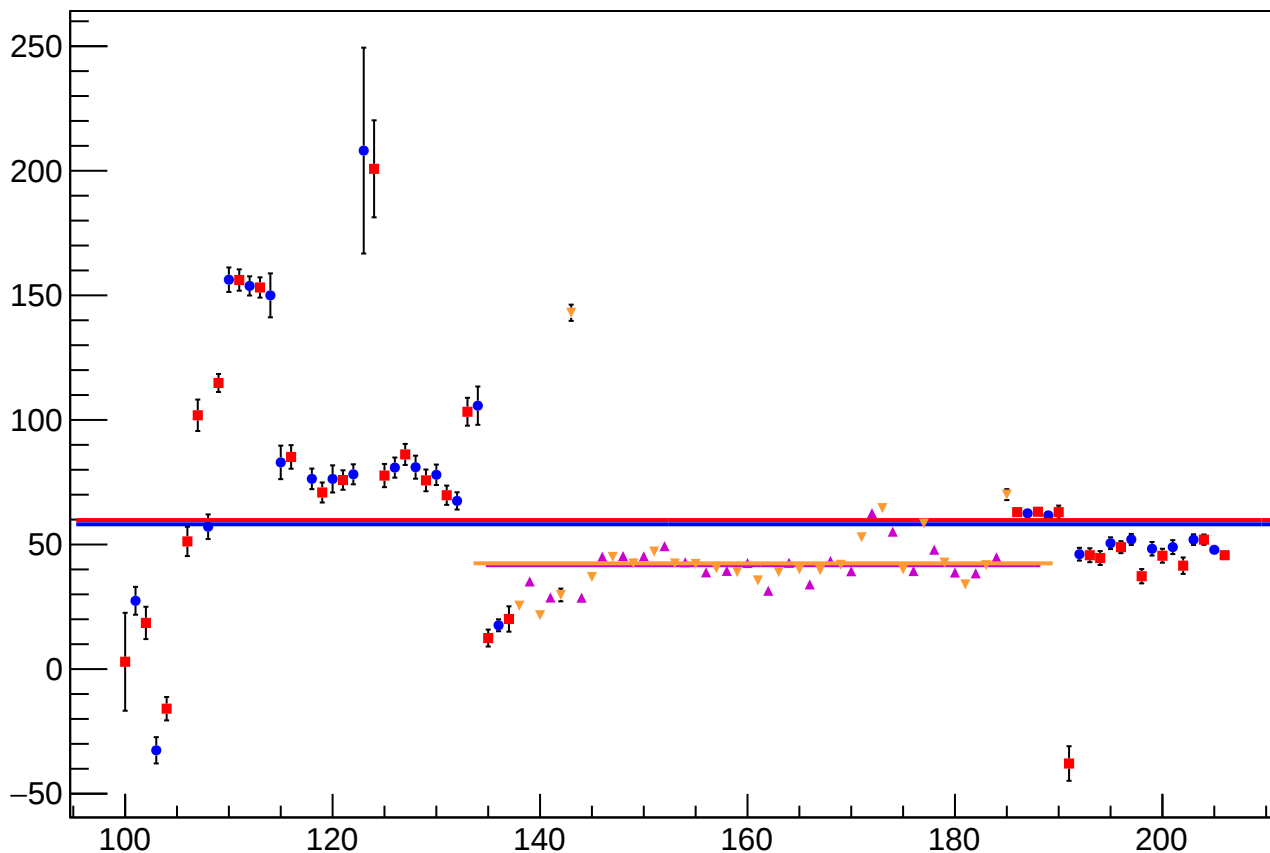
Right: -1.562 ± 0.341 $\chi^2/\text{NDF}: 592.5/56$

In: -3.712 ± 0.208 $\chi^2/\text{NDF}: 845.6/48$

Out: -3.488 ± 0.201 $\chi^2/\text{NDF}: 1100.9/55$

All: -3.596 ± 0.145 $\chi^2/\text{NDF}: 1947.1/104$

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 58.120+/-0.590 χ^2/NDF : 2061.4/25

Left Out: 42.452+/-0.282 χ^2/NDF : 2016.0/24

Right Out: 59.816+/-0.465 χ^2/NDF : 2627.7/30

Left In: 41.695+/-0.284 χ^2/NDF : 630.2/22

Left: 42.077+/-0.200 χ^2/NDF : 2649.8/47

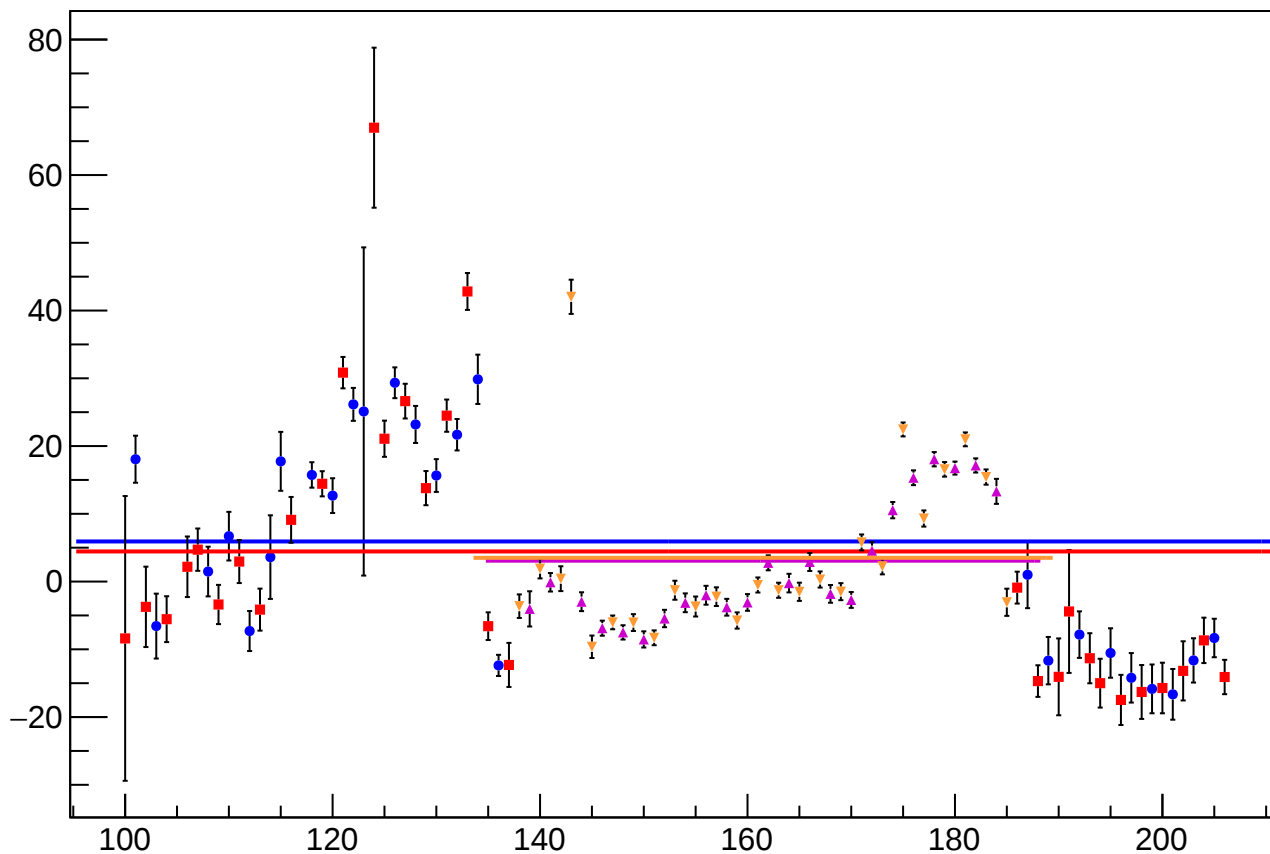
Right: 59.167+/-0.365 χ^2/NDF : 4694.1/56

In: 44.783+/-0.256 χ^2/NDF : 3319.9/48

Out: 47.120+/-0.241 χ^2/NDF : 5663.4/55

All: 46.022+/-0.176 χ^2/NDF : 9027.5/104

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.920 ± 0.580 χ^2/NDF : 761.0/25

Left Out: 3.505 ± 0.252 χ^2/NDF : 1691.3/24

Right Out: 4.445 ± 0.549 χ^2/NDF : 975.7/30

Left In: 3.081 ± 0.257 χ^2/NDF : 1265.7/22

Left: 3.297 ± 0.180 χ^2/NDF : 2958.4/47

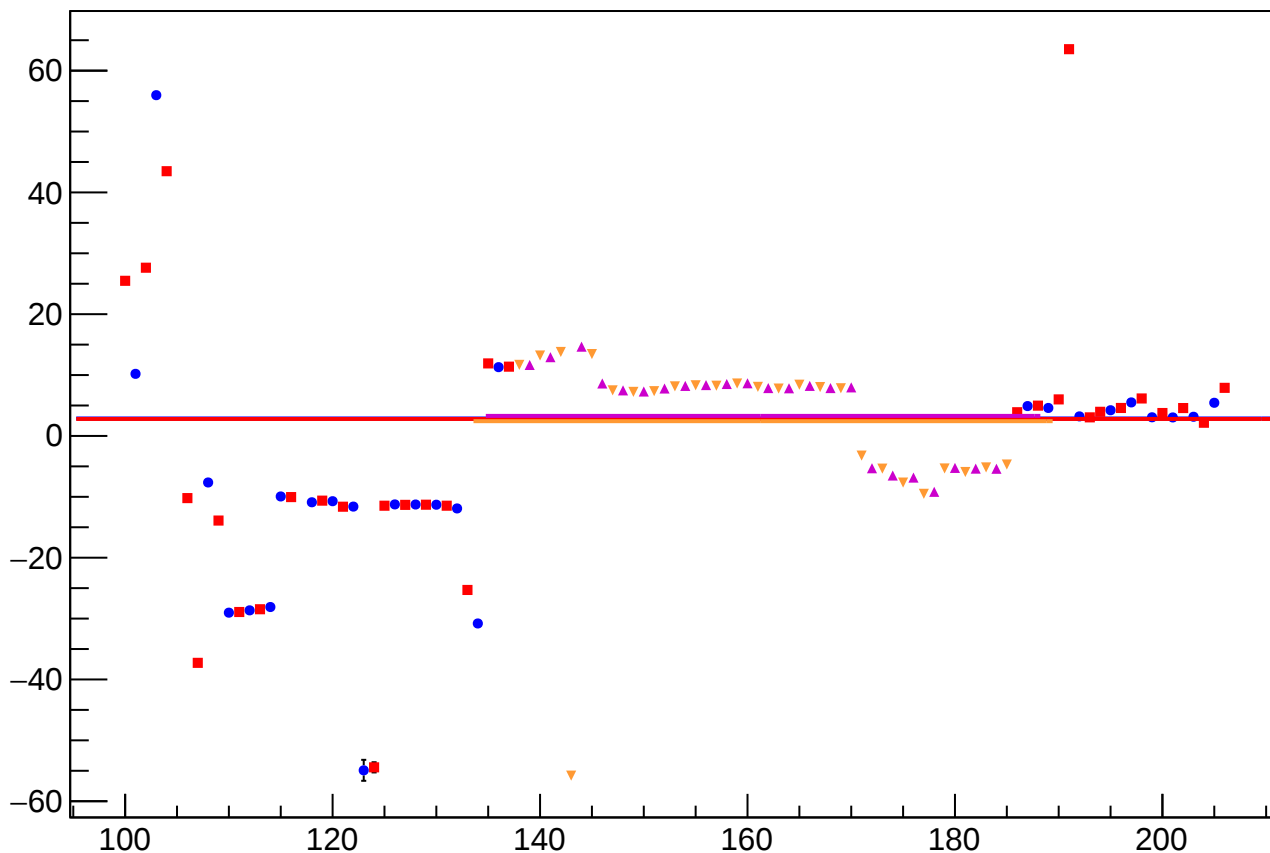
Right: 5.141 ± 0.399 χ^2/NDF : 1740.1/56

In: 3.547 ± 0.235 χ^2/NDF : 2046.7/48

Out: 3.669 ± 0.229 χ^2/NDF : 2669.4/55

All: 3.610 ± 0.164 χ^2/NDF : 4716.3/104

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.864 $\pm$ 0.028 χ^2 /NDF: 359618.6/25

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.790 $\pm$ 0.026 χ^2 /NDF: 434254.1/30

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

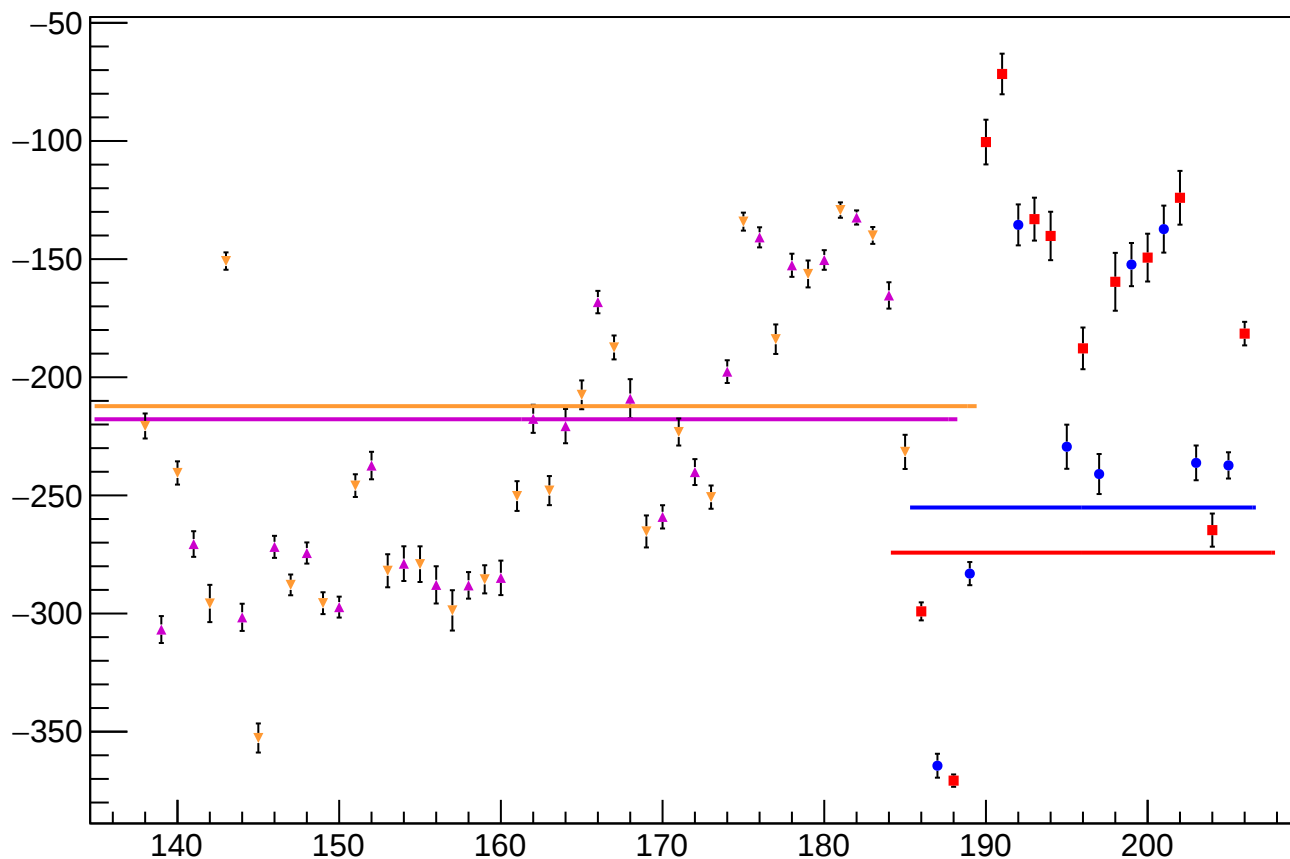
Right: 2.825 $\pm$ 0.019 χ^2 /NDF: 793876.5/56

In: 3.227 $\pm$ 0.011 χ^2 /NDF: 764147.6/48

Out: 2.486 $\pm$ 0.011 χ^2 /NDF: 1050803.3/55

All: 2.850 $\pm$ 0.008 χ^2 /NDF: 1817375.8/104

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -255.124 ± 2.280 $\chi^2/\text{NDF}: 983.3/8$

Left Out: -212.231 ± 1.029 $\chi^2/\text{NDF}: 3875.4/24$

Right Out: -274.233 ± 1.668 $\chi^2/\text{NDF}: 3570.6/11$

Left In: -217.779 ± 1.067 $\chi^2/\text{NDF}: 3448.9/22$

Left: -214.906 ± 0.741 $\chi^2/\text{NDF}: 7338.3/47$

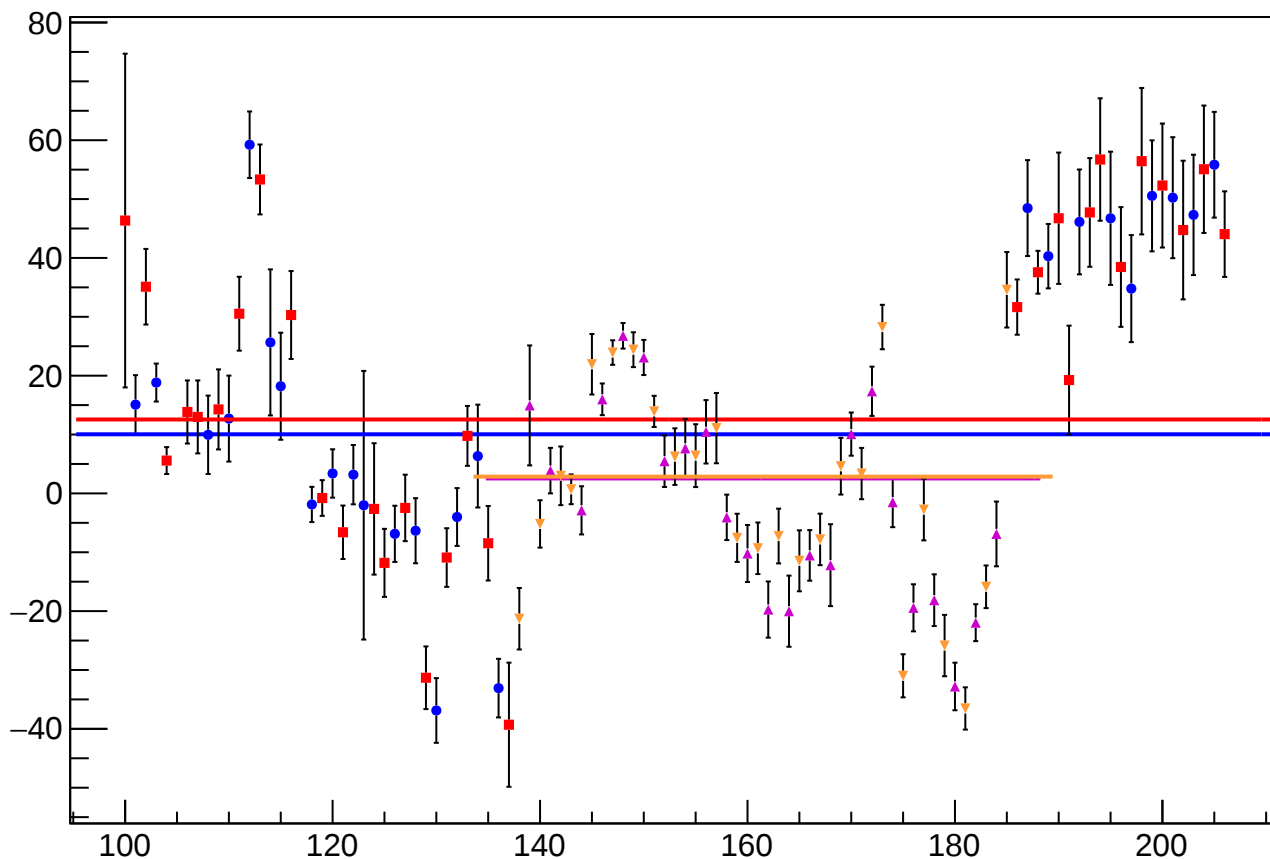
Right: -267.572 ± 1.346 $\chi^2/\text{NDF}: 4599.6/20$

In: -224.485 ± 0.966 $\chi^2/\text{NDF}: 4652.3/31$

Out: -229.332 ± 0.876 $\chi^2/\text{NDF}: 8446.6/36$

All: -227.146 ± 0.649 $\chi^2/\text{NDF}: 13112.6/68$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.040 ± 1.141 $\chi^2/\text{NDF}: 445.2/25$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 12.556 ± 1.017 $\chi^2/\text{NDF}: 454.8/30$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

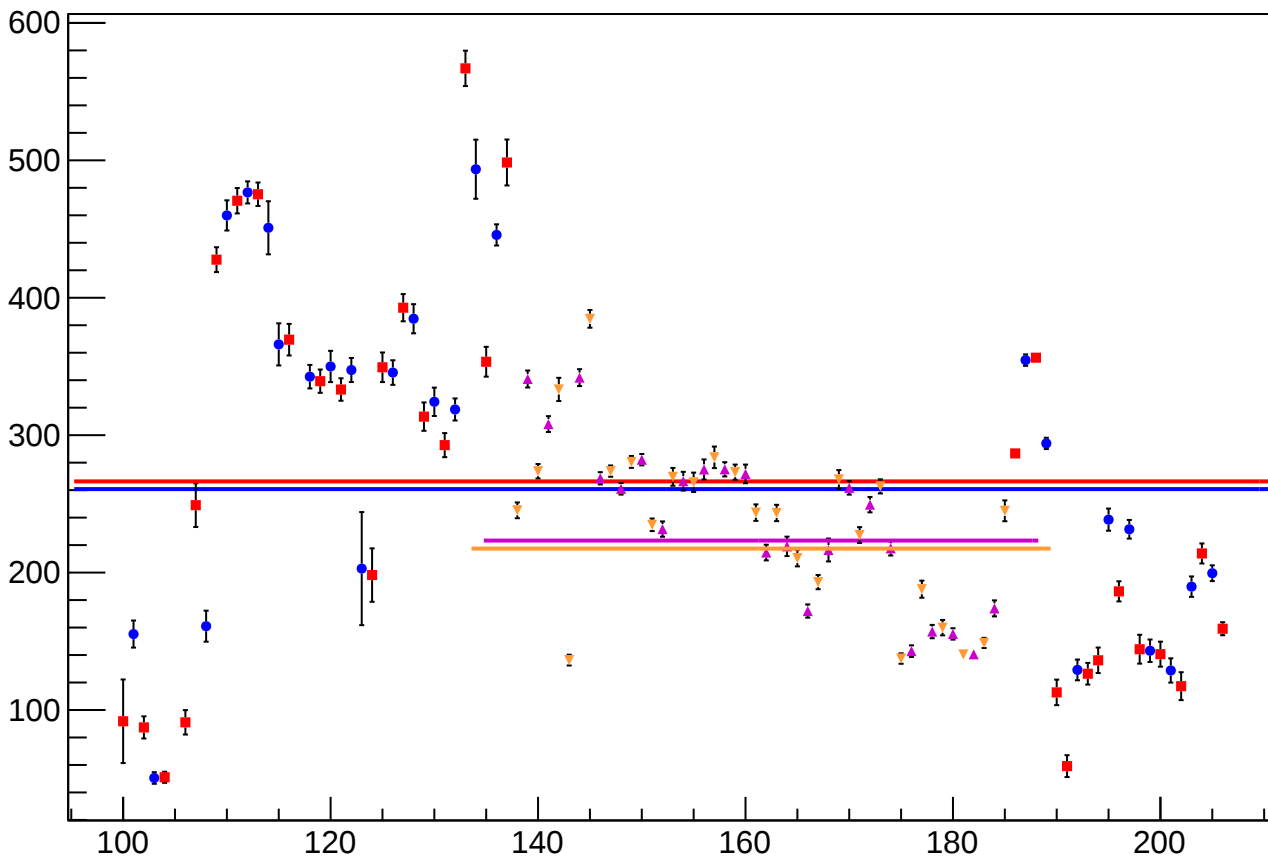
Right: 11.442 ± 0.759 $\chi^2/\text{NDF}: 902.7/56$

In: 5.104 ± 0.667 $\chi^2/\text{NDF}: 947.2/48$

Out: 6.412 ± 0.616 $\chi^2/\text{NDF}: 1094.6/55$

All: 5.810 ± 0.453 $\chi^2/\text{NDF}: 2043.9/104$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 260.748 ± 1.486 χ^2/NDF : 6663.0/25

Left Out: 217.484 ± 1.032 χ^2/NDF : 3769.5/24

Right Out: 266.365 ± 1.168 χ^2/NDF : 11030.7/30

Left In: 223.309 ± 1.062 χ^2/NDF : 3378.0/22

Left: 220.314 ± 0.740 χ^2/NDF : 7163.0/47

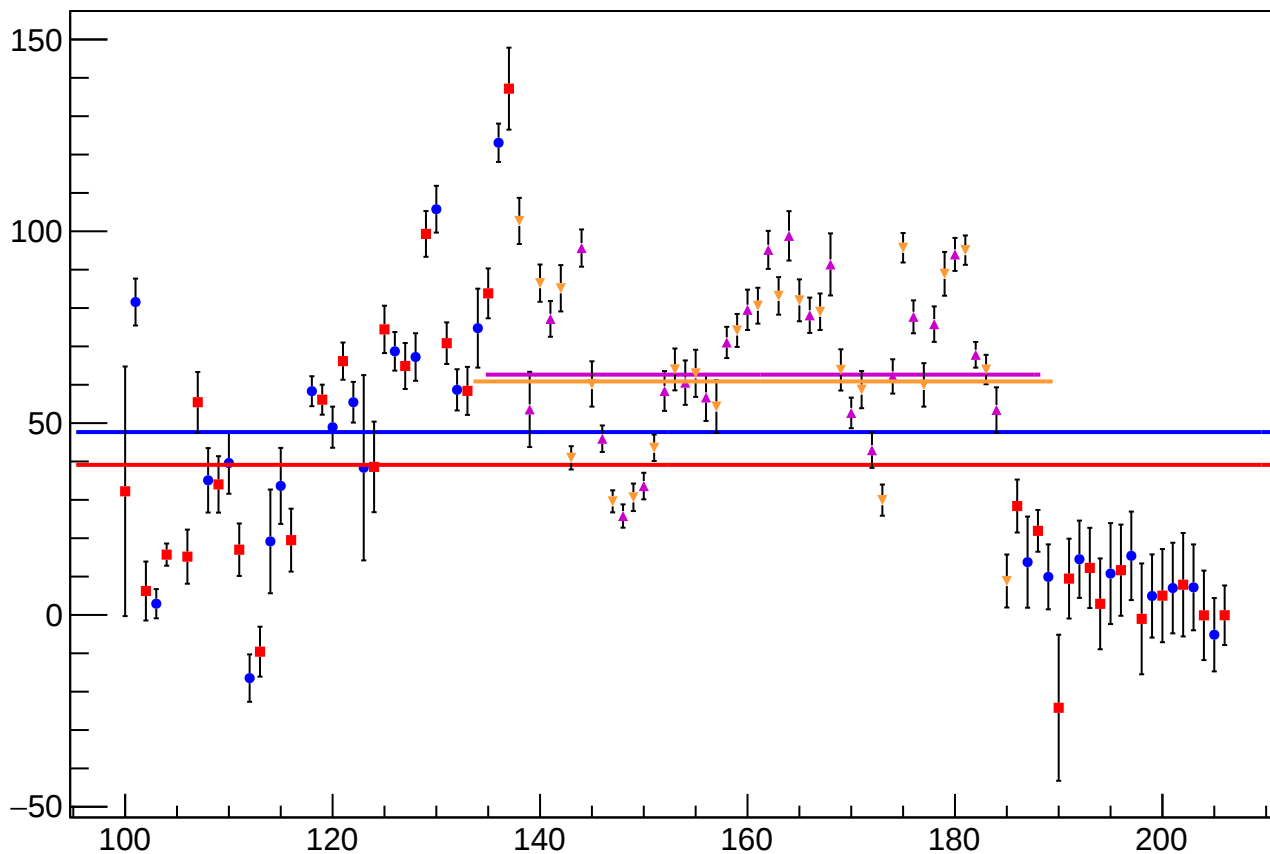
Right: 264.220 ± 0.918 χ^2/NDF : 17702.6/56

In: 235.969 ± 0.864 χ^2/NDF : 10461.4/48

Out: 238.931 ± 0.773 χ^2/NDF : 15783.9/55

All: 237.613 ± 0.576 χ^2/NDF : 26251.8/104

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.665 $\pm$ 1.336 χ^2 /NDF: 778.8/25

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 39.124 $\pm$ 1.219 χ^2 /NDF: 661.4/30

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

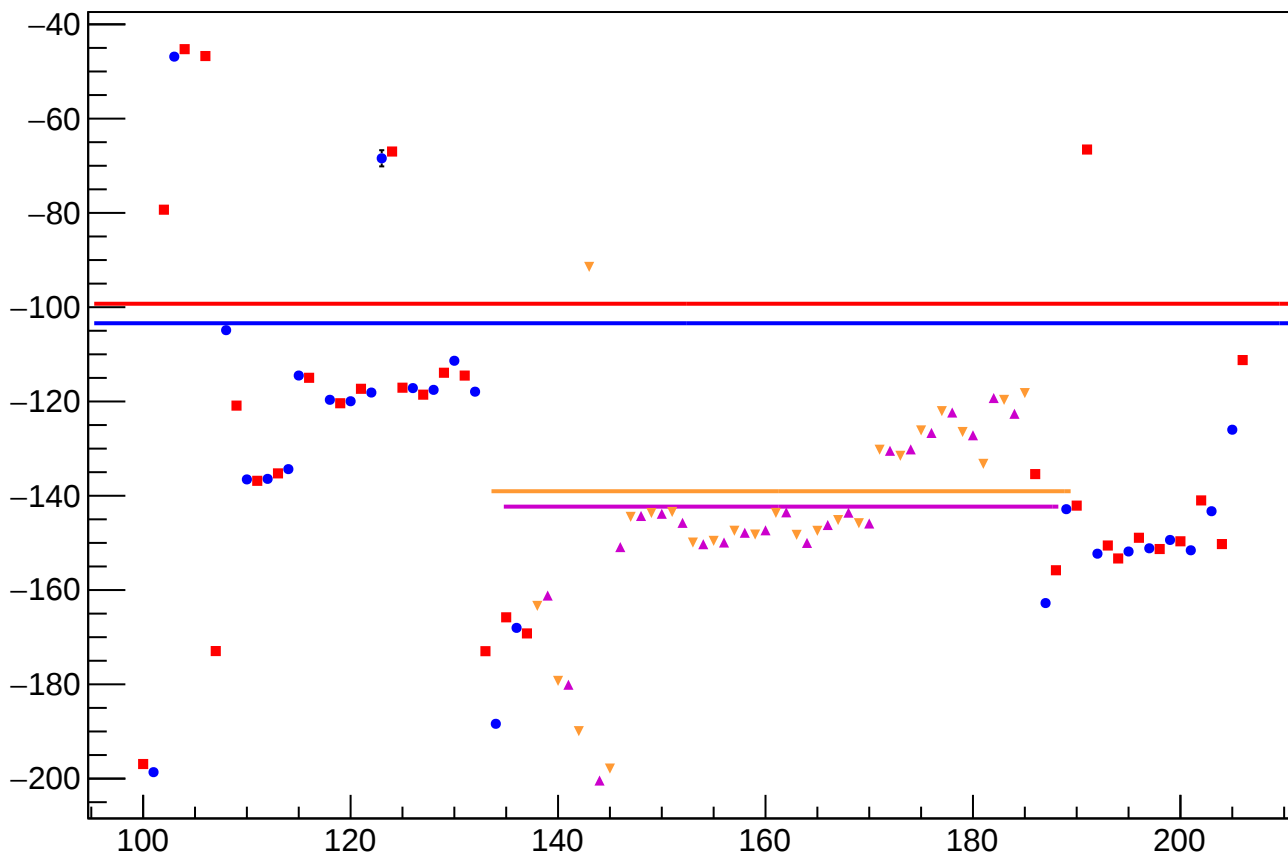
Right: 43.007 $\pm$ 0.901 χ^2 /NDF: 1462.5/56

In: 57.661 $\pm$ 0.770 χ^2 /NDF: 1378.1/48

Out: 53.234 $\pm$ 0.722 χ^2 /NDF: 1599.3/55

All: 55.306 $\pm$ 0.527 χ^2 /NDF: 2995.0/104

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -103.405+/-0.060 χ^2/NDF : 692595.2/25

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -99.269+/-0.055 χ^2/NDF : 728477.6/30

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

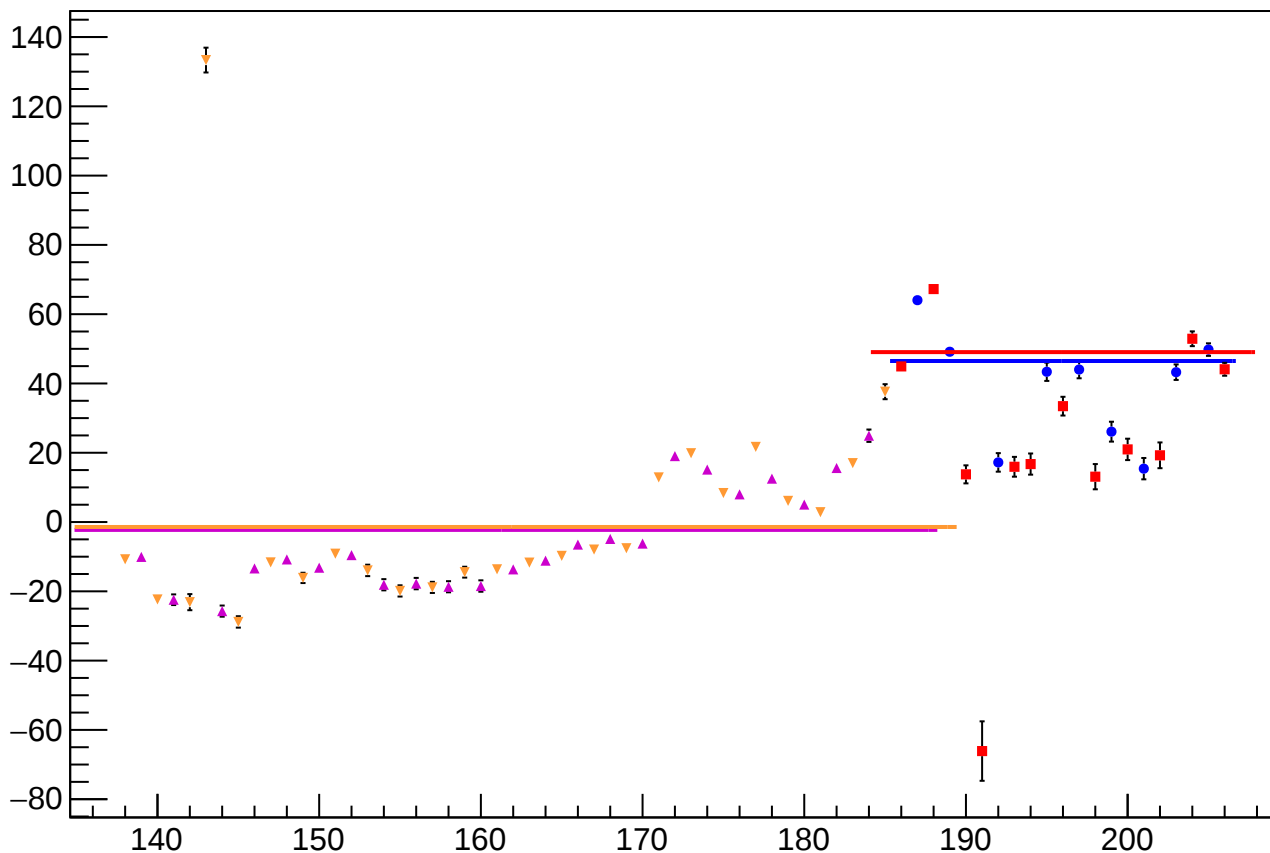
Right: -101.168+/-0.041 χ^2/NDF : 1423655.6/56

In: -128.626+/-0.035 χ^2/NDF : 1109828.2/48

Out: -124.060+/-0.034 χ^2/NDF : 1310771.8/55

All: -126.235+/-0.024 χ^2/NDF : 2429269.1/10

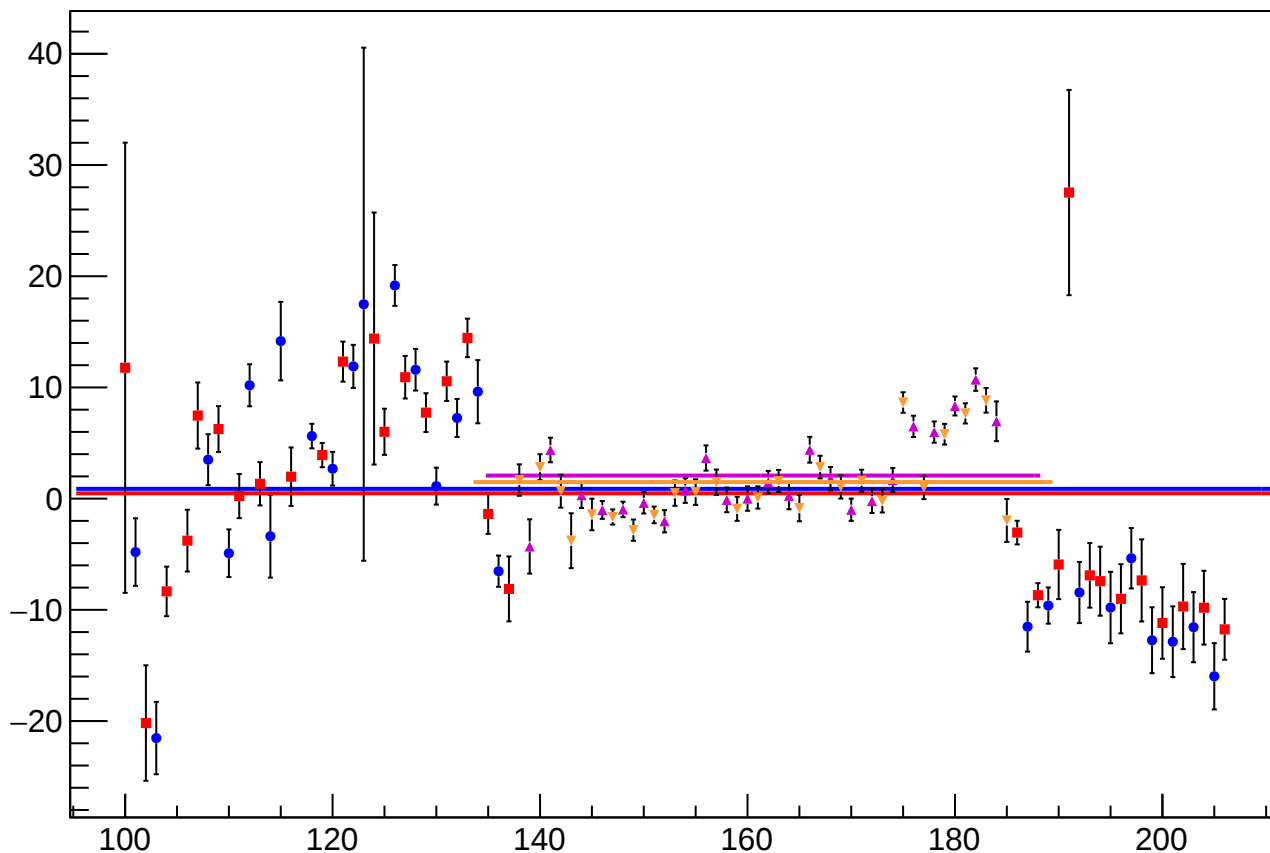
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 46.485 ± 0.681 $\chi^2/\text{NDF}: 441.7/8$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 49.052 ± 0.483 $\chi^2/\text{NDF}: 1472.7/11$
 Left In: -2.270 ± 0.271 $\chi^2/\text{NDF}: 2521.6/22$

Left: -1.844 ± 0.190 $\chi^2/\text{NDF}: 6865.5/47$
 Right: 48.193 ± 0.394 $\chi^2/\text{NDF}: 1923.9/20$
 In: 4.388 ± 0.252 $\chi^2/\text{NDF}: 7392.2/31$
 Out: 10.443 ± 0.234 $\chi^2/\text{NDF}: 14177.2/36$
 All: 7.634 ± 0.171 $\chi^2/\text{NDF}: 21879.9/68$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.882 $\pm$ 0.413 χ^2 /NDF: 522.2/25

Left Out: 1.491 $\pm$ 0.210 χ^2 /NDF:259.1/24

Right Out: 0.478 $\pm$ 0.375 χ^2 /NDF: 436.2/30

Left In: 2.075 $\pm$ 0.215 χ^2 /NDF:274.6/22

Left: 1.776 $\pm$ 0.150 χ^2 /NDF: 537.4/47

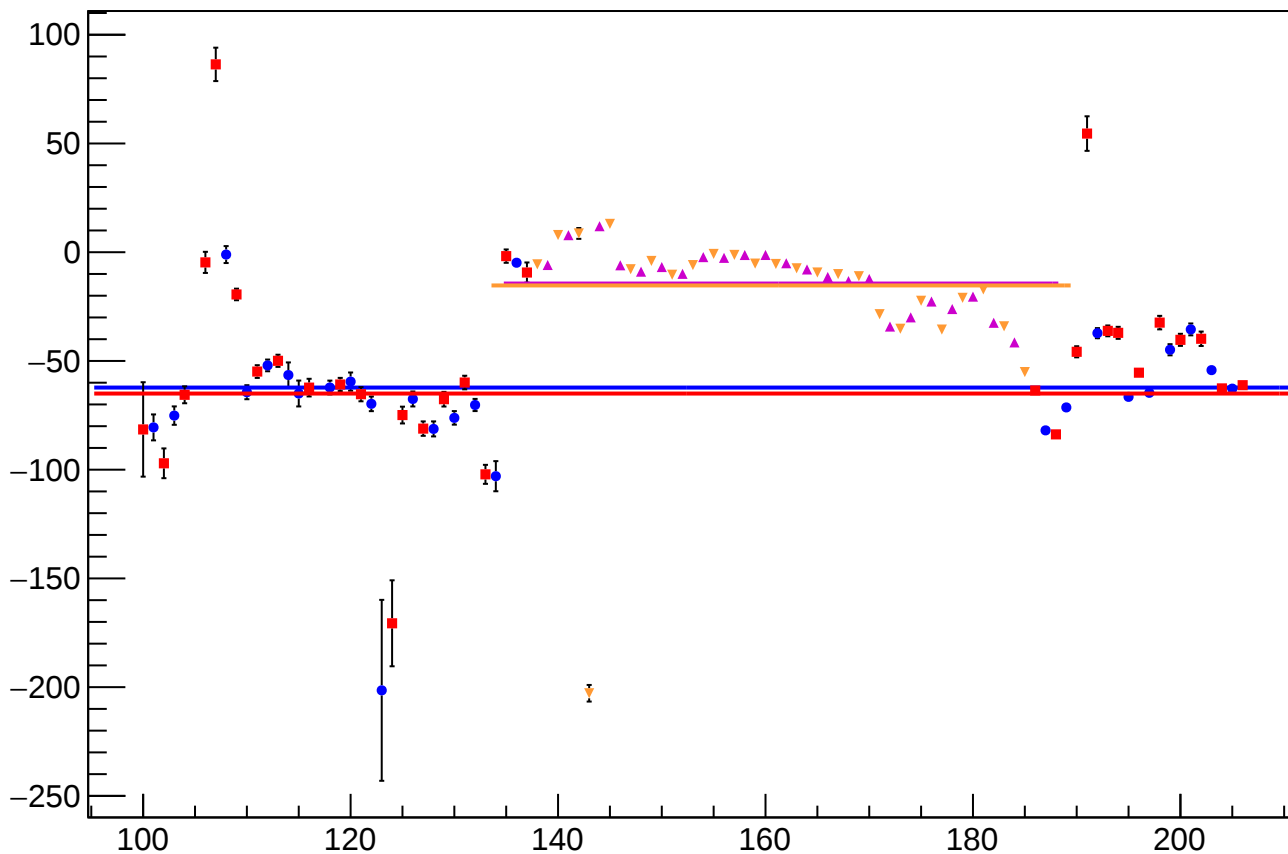
Right: 0.660 $\pm$ 0.278 χ^2 /NDF: 959.0/56

In: 1.820 $\pm$ 0.191 χ^2 /NDF:803.3/48

Out: 1.249 $\pm$ 0.183 χ^2 /NDF:700.9/55

All: 1.523 $\pm$ 0.132 χ^2 /NDF: 1508.9/104

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.236 ± 0.491 $\chi^2/\text{NDF}: 1723.4/25$

Left Out: -15.279 ± 0.267 $\chi^2/\text{NDF}: 4820.1/24$

Right Out: -64.991 ± 0.364 $\chi^2/\text{NDF}: 3307.6/30$

Left In: -14.406 ± 0.269 $\chi^2/\text{NDF}: 2032.4/22$

Left: -14.846 ± 0.189 $\chi^2/\text{NDF}: 6857.8/47$

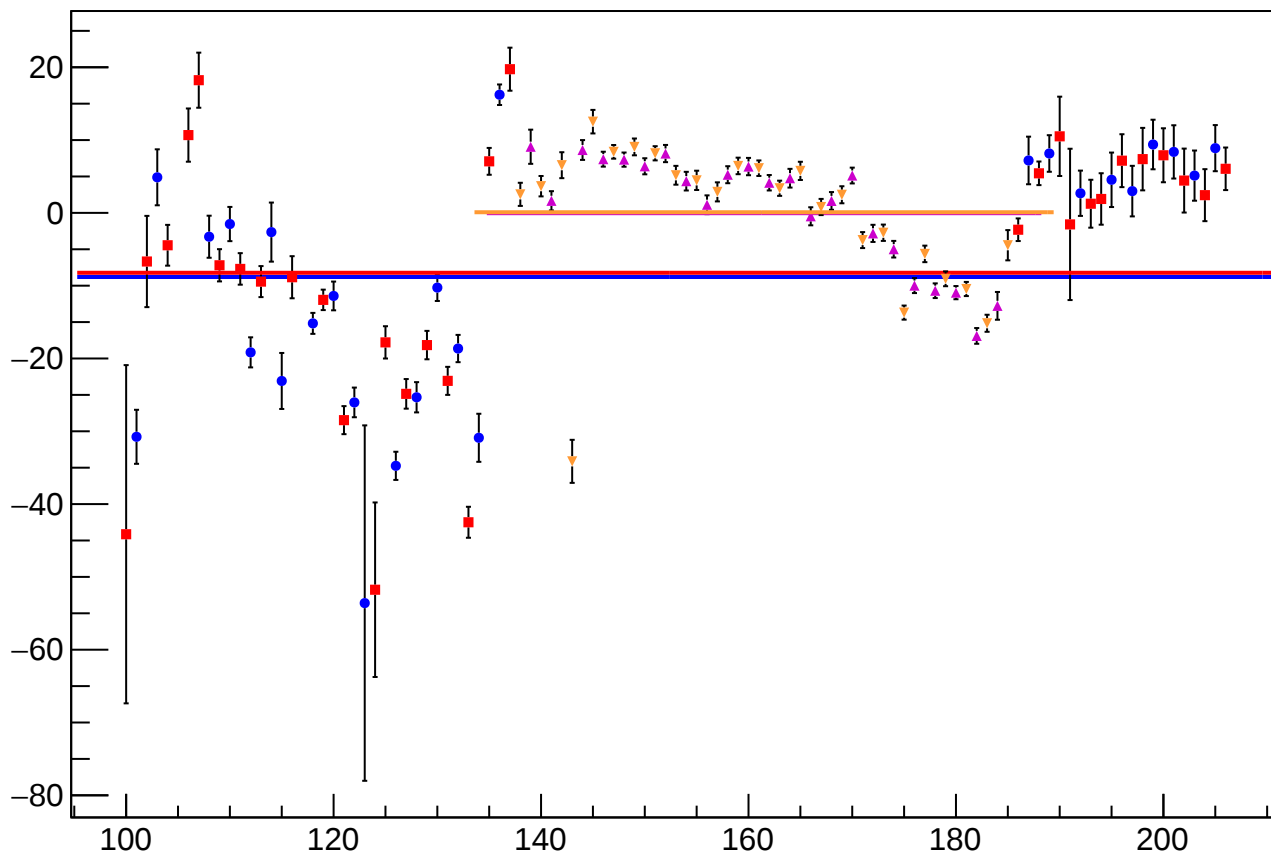
Right: -64.013 ± 0.293 $\chi^2/\text{NDF}: 5051.3/56$

In: -25.442 ± 0.236 $\chi^2/\text{NDF}: 11045.1/48$

Out: -32.625 ± 0.215 $\chi^2/\text{NDF}: 20242.0/55$

All: -29.363 ± 0.159 $\chi^2/\text{NDF}: 31792.5/104$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -8.807 ± 0.481 χ^2/NDF : 1035.0/25

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -8.228 ± 0.451 χ^2/NDF : 1005.4/30

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

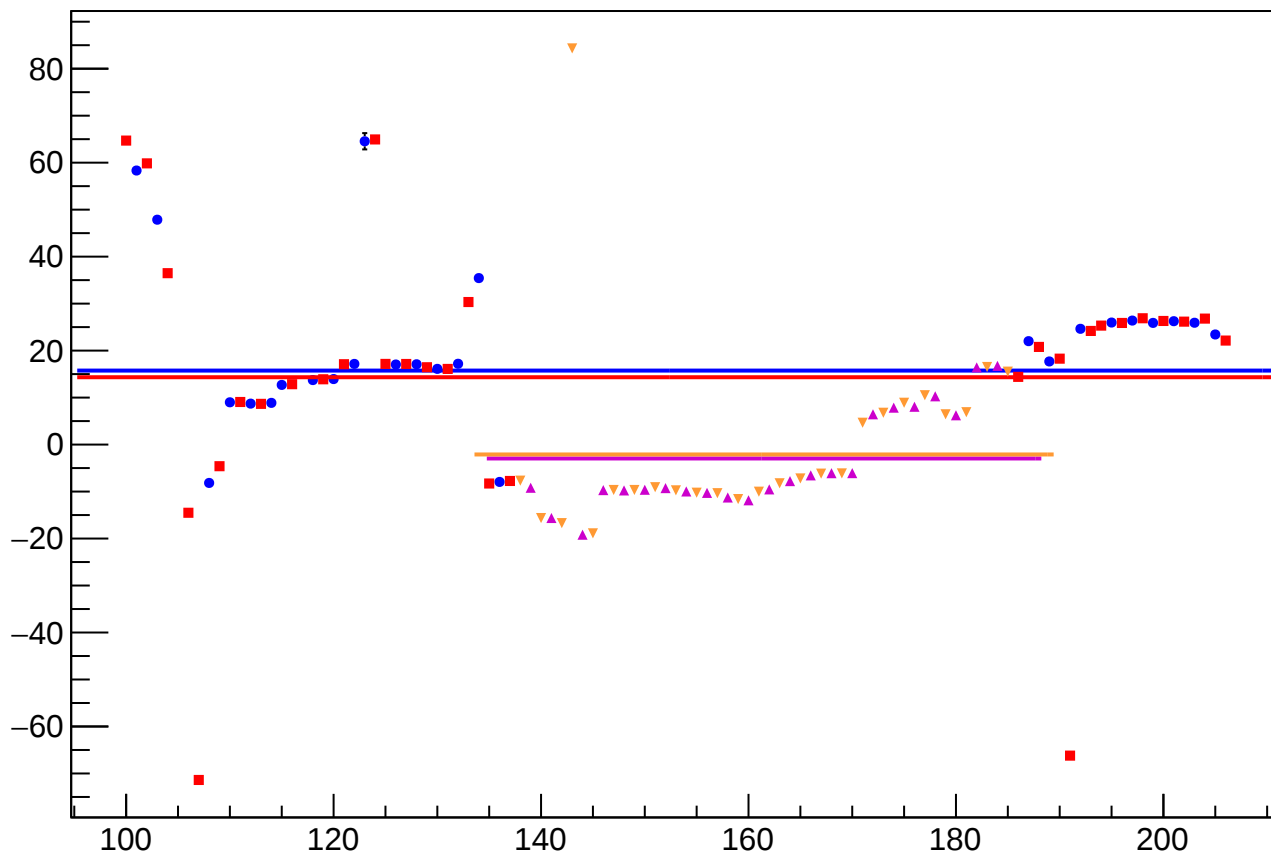
Right: -8.499 ± 0.329 χ^2/NDF : 2041.1/56

In: -1.824 ± 0.217 χ^2/NDF : 2327.2/48

Out: -1.725 ± 0.211 χ^2/NDF : 2443.1/55

All: -1.773 ± 0.151 χ^2/NDF : 4770.4/104

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 15.749+/-0.024 χ^2/NDF : 467414.4/25

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 14.332+/-0.023 χ^2/NDF : 747899.7/30

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

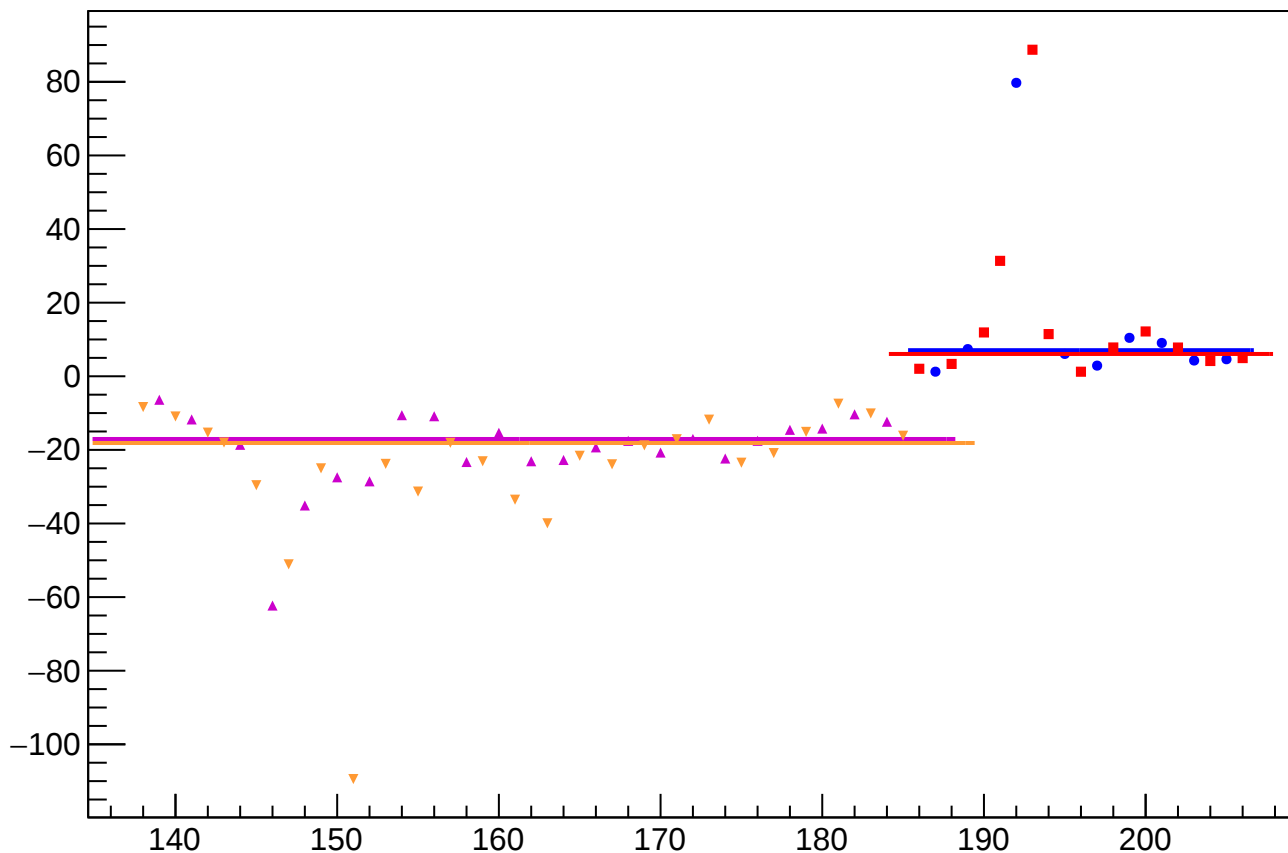
Right: 15.005+/-0.017 χ^2/NDF : 1217115.3/56

In: 0.250+/-0.010 χ^2/NDF : 1726394.9/48

Out: 0.920+/-0.010 χ^2/NDF : 2257858.2/55

All: 0.590+/-0.007 χ^2/NDF : 3986526.6/104

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.089 ± 0.069 $\chi^2/\text{NDF}: 25105.3/8$

Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$

Right Out: 6.061 ± 0.060 $\chi^2/\text{NDF}: 25805.9/11$

Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$

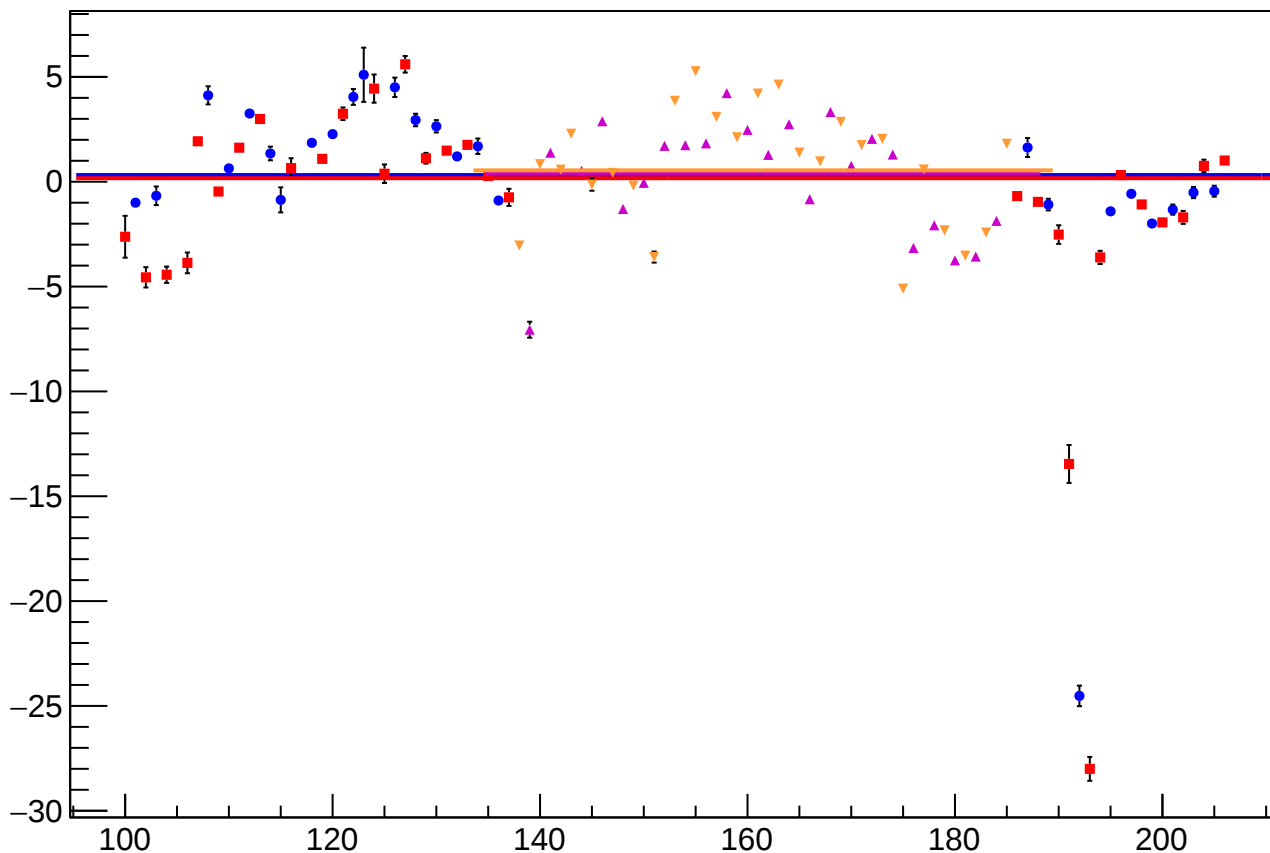
Right: 6.503 ± 0.045 $\chi^2/\text{NDF}: 51037.7/20$

In: -11.392 ± 0.033 $\chi^2/\text{NDF}: 162825.6/31$

Out: -10.960 ± 0.033 $\chi^2/\text{NDF}: 228852.3/36$

All: -11.171 ± 0.023 $\chi^2/\text{NDF}: 391763.5/68$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.318 $\pm$ 0.050 χ^2 /NDF: 3821.5/25

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF: 7085.3/24

Right Out: 0.169 $\pm$ 0.046 χ^2 /NDF: 4264.3/30

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

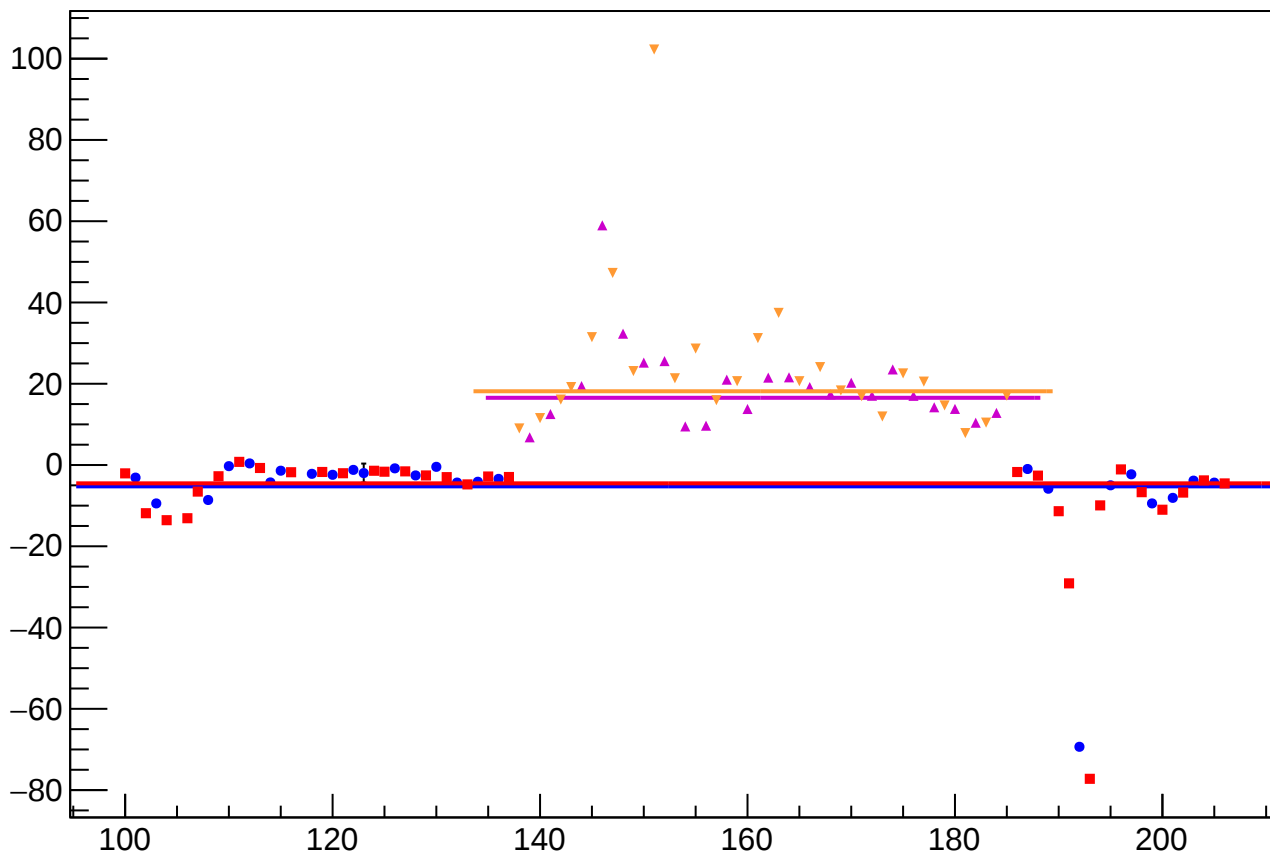
Right: 0.238 $\pm$ 0.034 χ^2 /NDF: 8090.7/56

In: 0.375 $\pm$ 0.026 χ^2 /NDF: 10058.9/48

Out: 0.419 $\pm$ 0.026 χ^2 /NDF: 11393.9/55

All: 0.397 $\pm$ 0.019 χ^2 /NDF: 21454.2/104

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.253 ± 0.054 $\chi^2/\text{NDF}: 26654.4/25$

Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$

Right Out: -4.510 ± 0.046 $\chi^2/\text{NDF}: 27651.1/30$

Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$

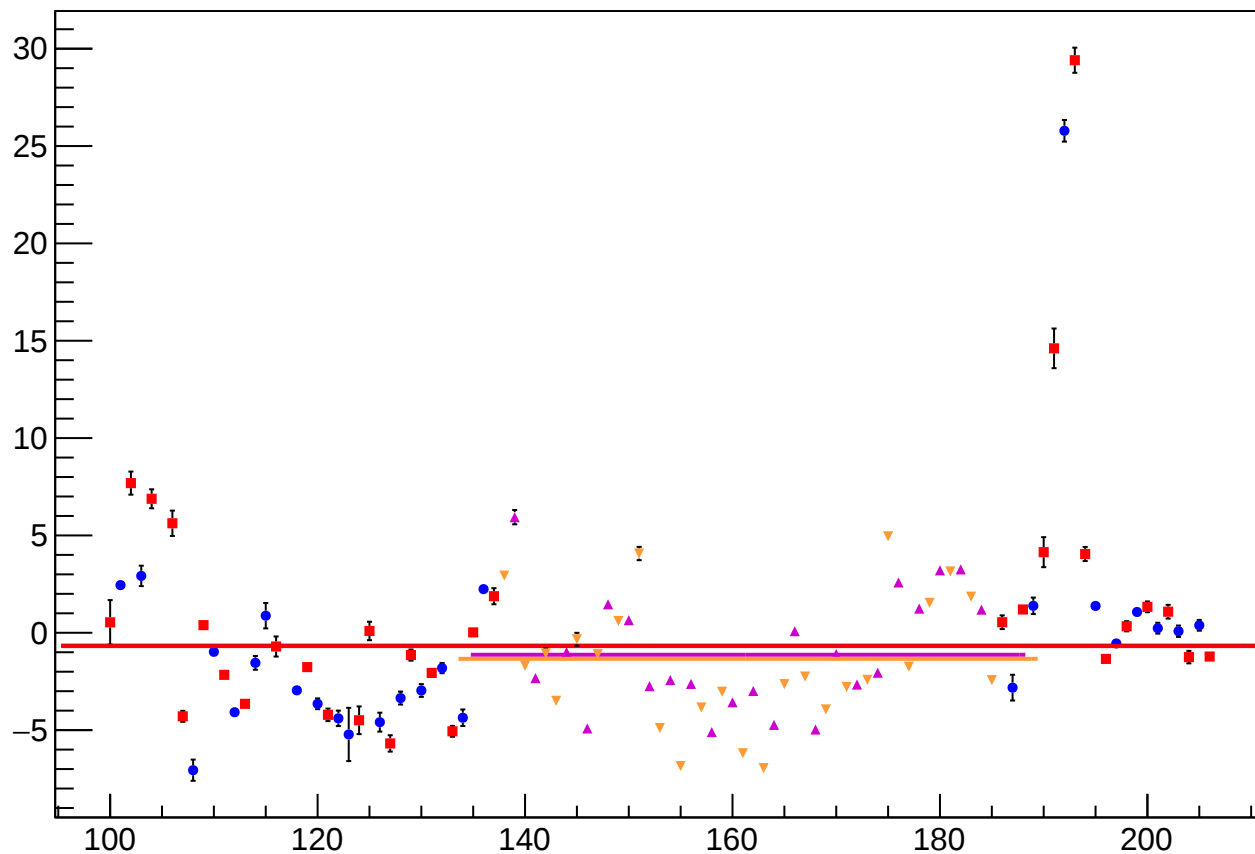
Right: -4.820 ± 0.035 $\chi^2/\text{NDF}: 54415.1/56$

In: 9.416 ± 0.031 $\chi^2/\text{NDF}: 176460.2/48$

Out: 8.629 ± 0.030 $\chi^2/\text{NDF}: 246648.6/55$

All: 9.007 ± 0.021 $\chi^2/\text{NDF}: 423444.2/104$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.662 ± 0.058 $\chi^2/\text{NDF}: 3912.4/25$

Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$

Right Out: -0.685 ± 0.054 $\chi^2/\text{NDF}: 4474.8/30$

Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$

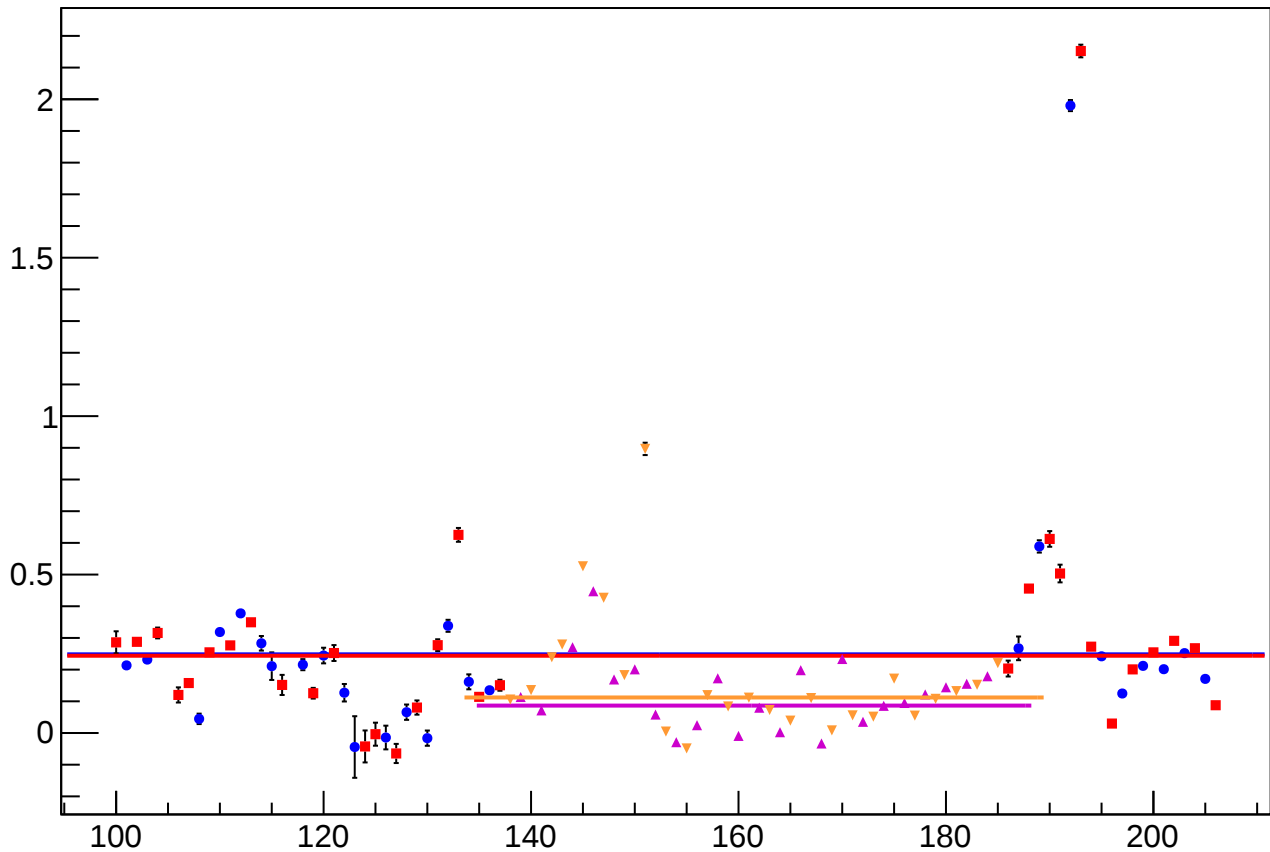
Right: -0.674 ± 0.039 $\chi^2/\text{NDF}: 8387.2/56$

In: -1.009 ± 0.029 $\chi^2/\text{NDF}: 10700.9/48$

Out: -1.135 ± 0.030 $\chi^2/\text{NDF}: 12520.4/55$

All: -1.071 ± 0.021 $\chi^2/\text{NDF}: 23230.4/104$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.248 $\pm$ 0.003 χ^2 /NDF: 11205.9/25

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.244 $\pm$ 0.002 χ^2 /NDF: 11884.9/30

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

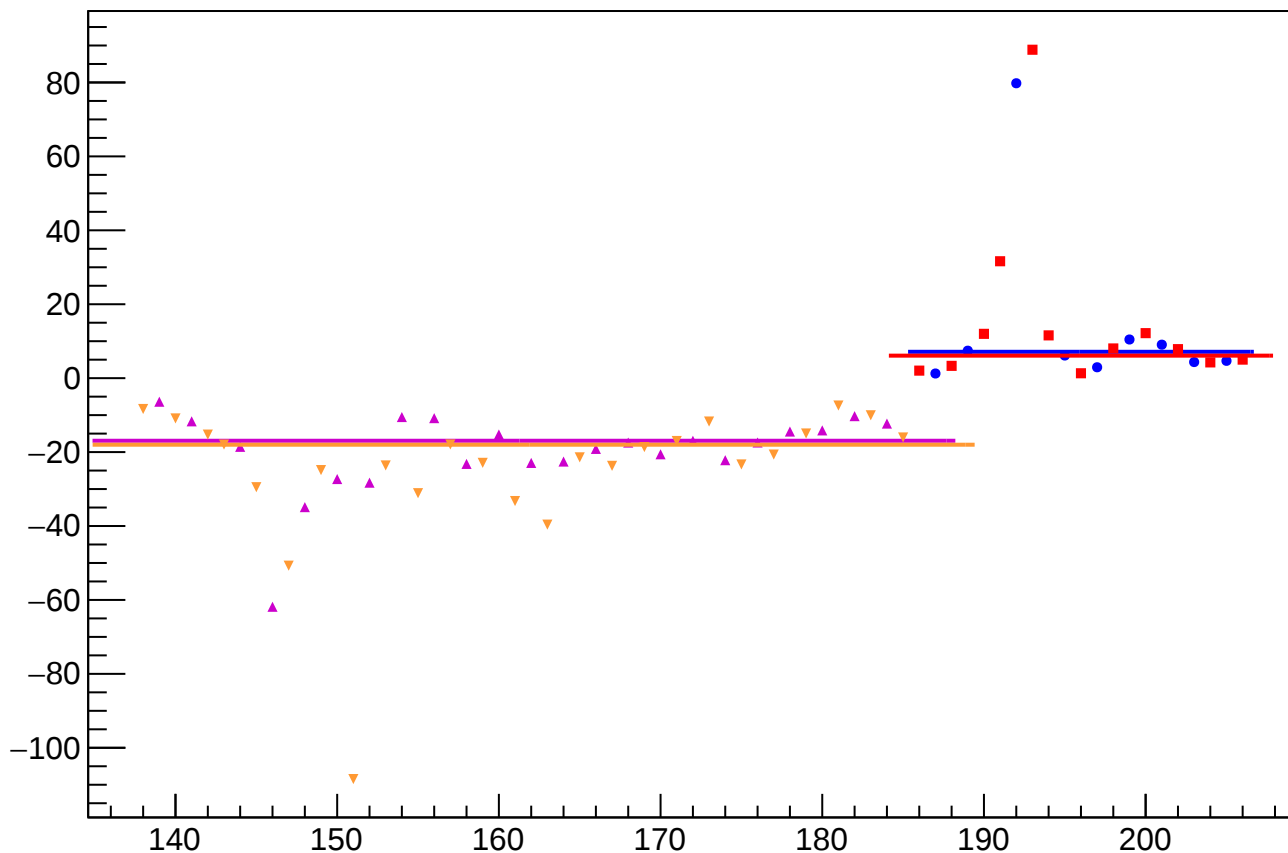
Right: 0.246 $\pm$ 0.002 χ^2 /NDF: 23092.3/56

In: 0.127 $\pm$ 0.001 χ^2 /NDF:17797.9/48

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:18452.7/55

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 36429.7/104

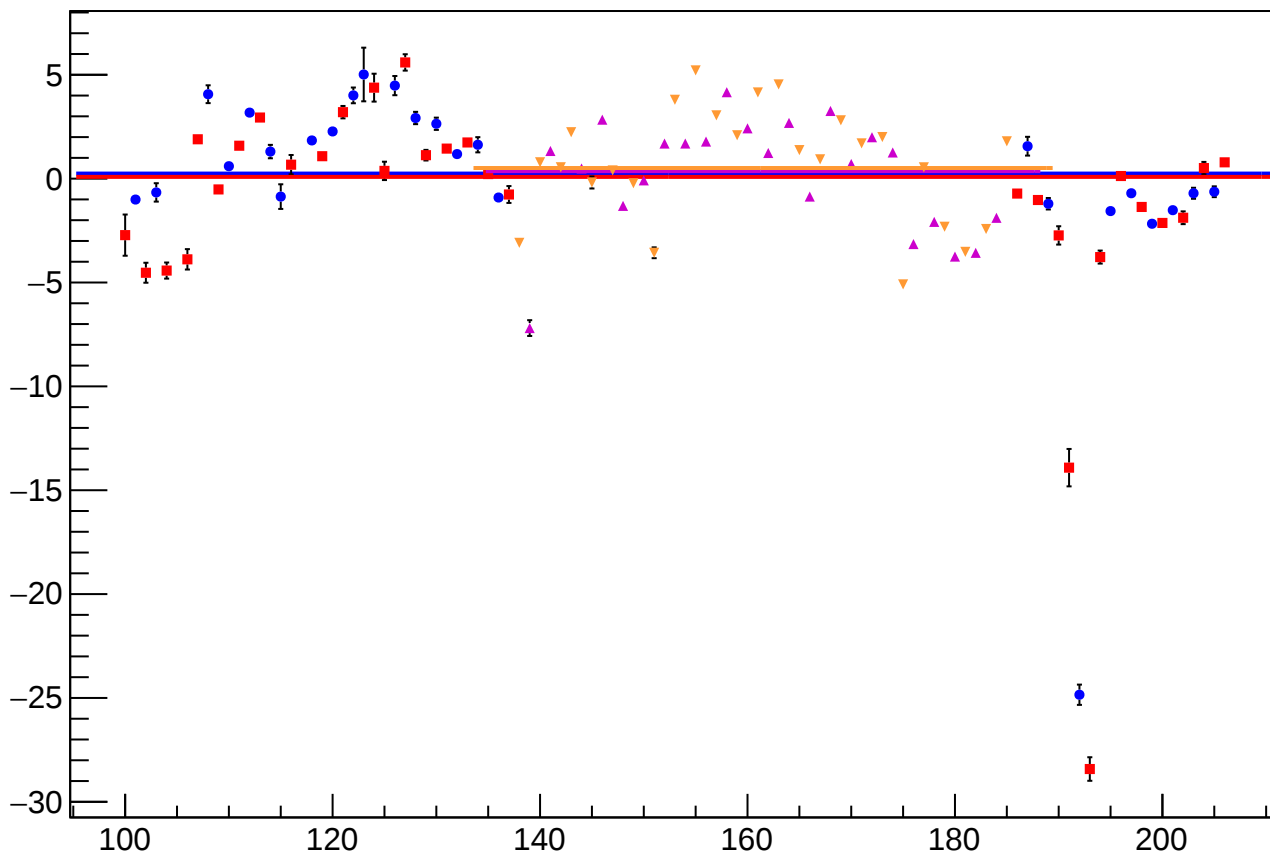
reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.134 ± 0.069 $\chi^2/\text{NDF}: 25283.7/8$
 Left Out: -18.005 ± 0.039 $\chi^2/\text{NDF}: 88391.0/24$
 Right Out: 6.091 ± 0.060 $\chi^2/\text{NDF}: 26147.5/11$
 Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$
 Right: 6.538 ± 0.045 $\chi^2/\text{NDF}: 51562.6/20$
 In: -11.318 ± 0.033 $\chi^2/\text{NDF}: 163431.0/31$
 Out: -10.861 ± 0.032 $\chi^2/\text{NDF}: 229829.3/36$
 All: -11.084 ± 0.023 $\chi^2/\text{NDF}: 393357.3/68$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.244+/-0.050 χ^2/NDF : 3957.6/25

Left Out: 0.511+/-0.032 χ^2/NDF : 7070.4/24

Right Out: 0.085+/-0.046 χ^2/NDF : 4423.7/30

Left In: 0.360+/-0.031 χ^2/NDF : 6221.1/22

Left: 0.432+/-0.022 χ^2/NDF : 13303.2/47

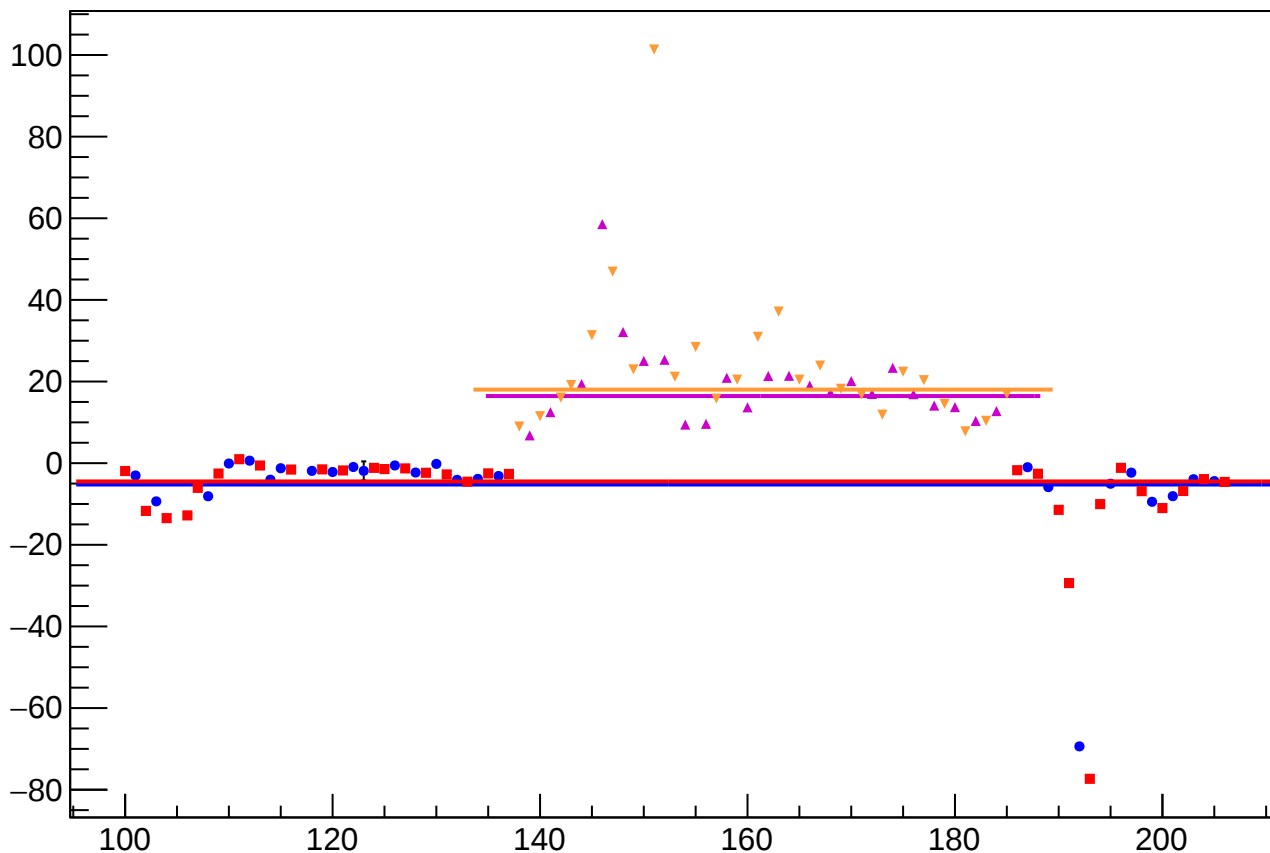
Right: 0.158+/-0.034 χ^2/NDF : 8386.9/56

In: 0.328+/-0.026 χ^2/NDF : 10182.6/48

Out: 0.371+/-0.026 χ^2/NDF : 11552.3/55

All: 0.349+/-0.018 χ^2/NDF : 21736.2/104

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.228 $\pm$ 0.054 χ^2 /NDF: 26971.5/25

Left Out: 18.027 $\pm$ 0.039 χ^2 /NDF: 77718.1/24

Right Out: -4.478 $\pm$ 0.046 χ^2 /NDF: 28118.3/30

Left In: 16.443 $\pm$ 0.038 χ^2 /NDF: 40780.6/22

Left: 17.207 $\pm$ 0.027 χ^2 /NDF: 119360.0/47

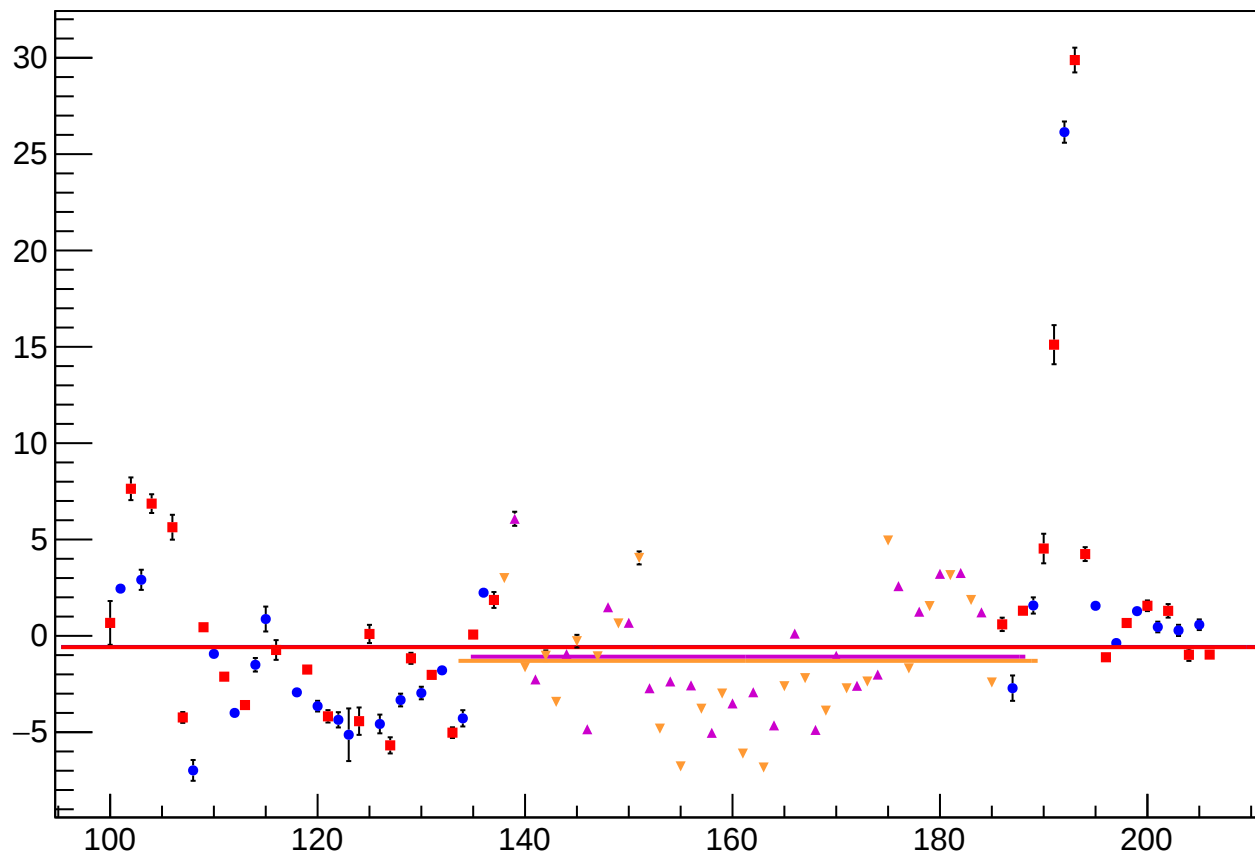
Right: -4.791 $\pm$ 0.035 χ^2 /NDF: 55202.5/56

In: 9.375 $\pm$ 0.031 χ^2 /NDF: 176619.8/48

Out: 8.569 $\pm$ 0.030 χ^2 /NDF: 247081.0/55

All: 8.955 $\pm$ 0.021 χ^2 /NDF: 424057.5/104

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.576 ± 0.058 $\chi^2/\text{NDF}: 4024.3/25$

Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$

Right Out: -0.587 ± 0.053 $\chi^2/\text{NDF}: 4625.0/30$

Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$

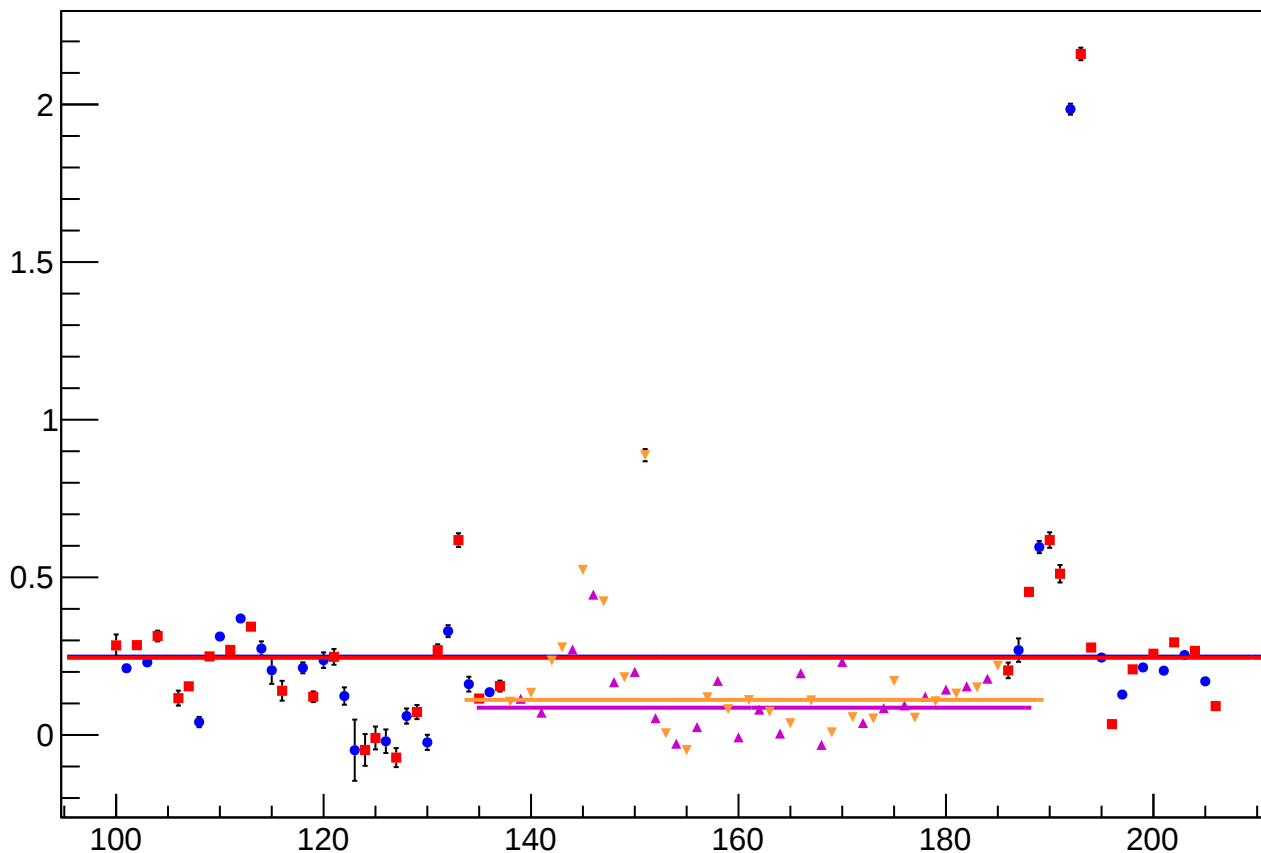
Right: -0.582 ± 0.039 $\chi^2/\text{NDF}: 8649.2/56$

In: -0.952 ± 0.029 $\chi^2/\text{NDF}: 10805.5/48$

Out: -1.077 ± 0.030 $\chi^2/\text{NDF}: 12672.8/55$

All: -1.014 ± 0.021 $\chi^2/\text{NDF}: 23487.5/104$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.249 $\pm$ 0.003 χ^2 /NDF: 11334.2/25

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.245 $\pm$ 0.002 χ^2 /NDF: 12012.5/30

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

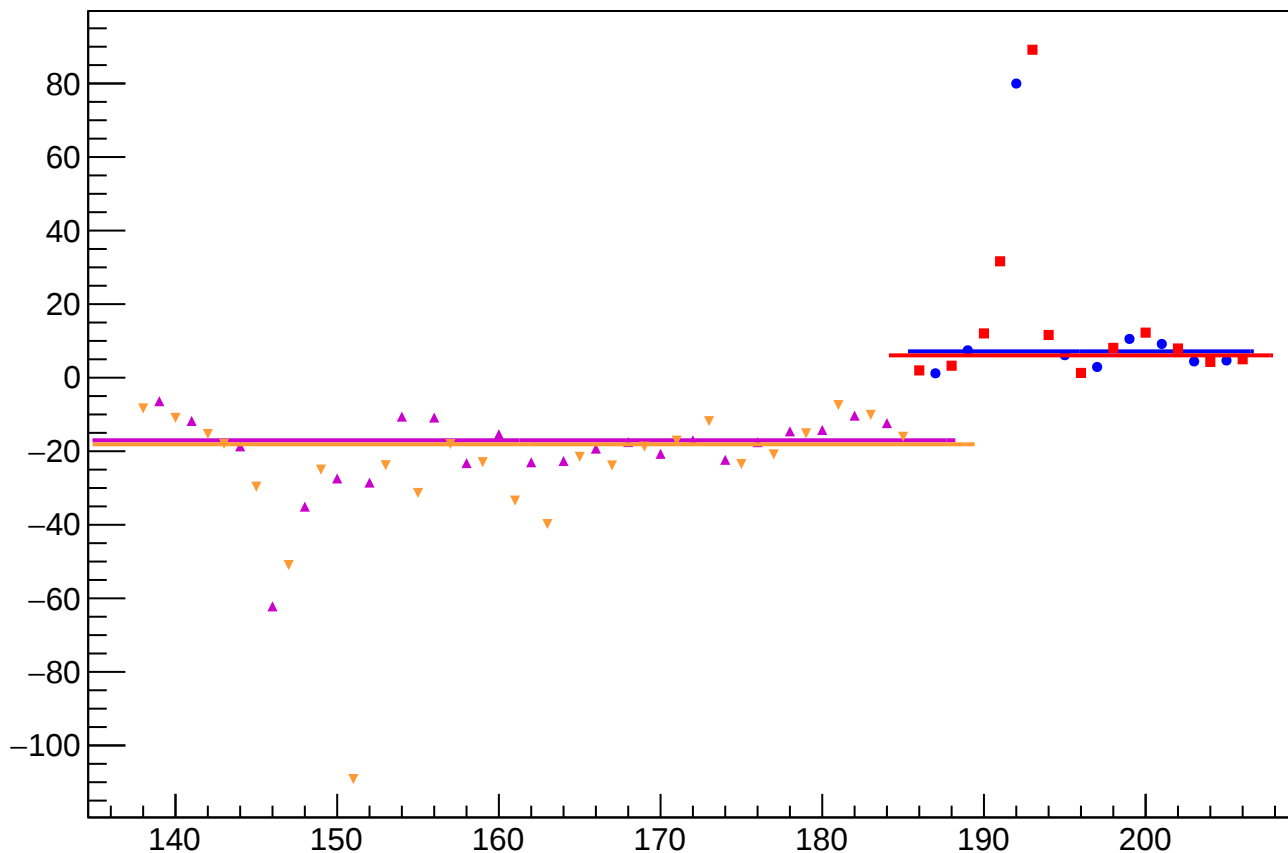
Right: 0.247 $\pm$ 0.002 χ^2 /NDF: 23347.8/56

In: 0.127 $\pm$ 0.001 χ^2 /NDF:17939.8/48

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:18649.7/55

All: 0.139 $\pm$ 0.001 χ^2 /NDF: 36766.6/104

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.159 ± 0.069 $\chi^2/\text{NDF}: 25273.5/8$

Left Out: -18.112 ± 0.039 $\chi^2/\text{NDF}: 88529.7/24$

Right Out: 6.069 ± 0.060 $\chi^2/\text{NDF}: 26181.2/11$

Left In: -17.024 ± 0.038 $\chi^2/\text{NDF}: 44141.8/22$

Left: -17.557 ± 0.027 $\chi^2/\text{NDF}: 133072.9/47$

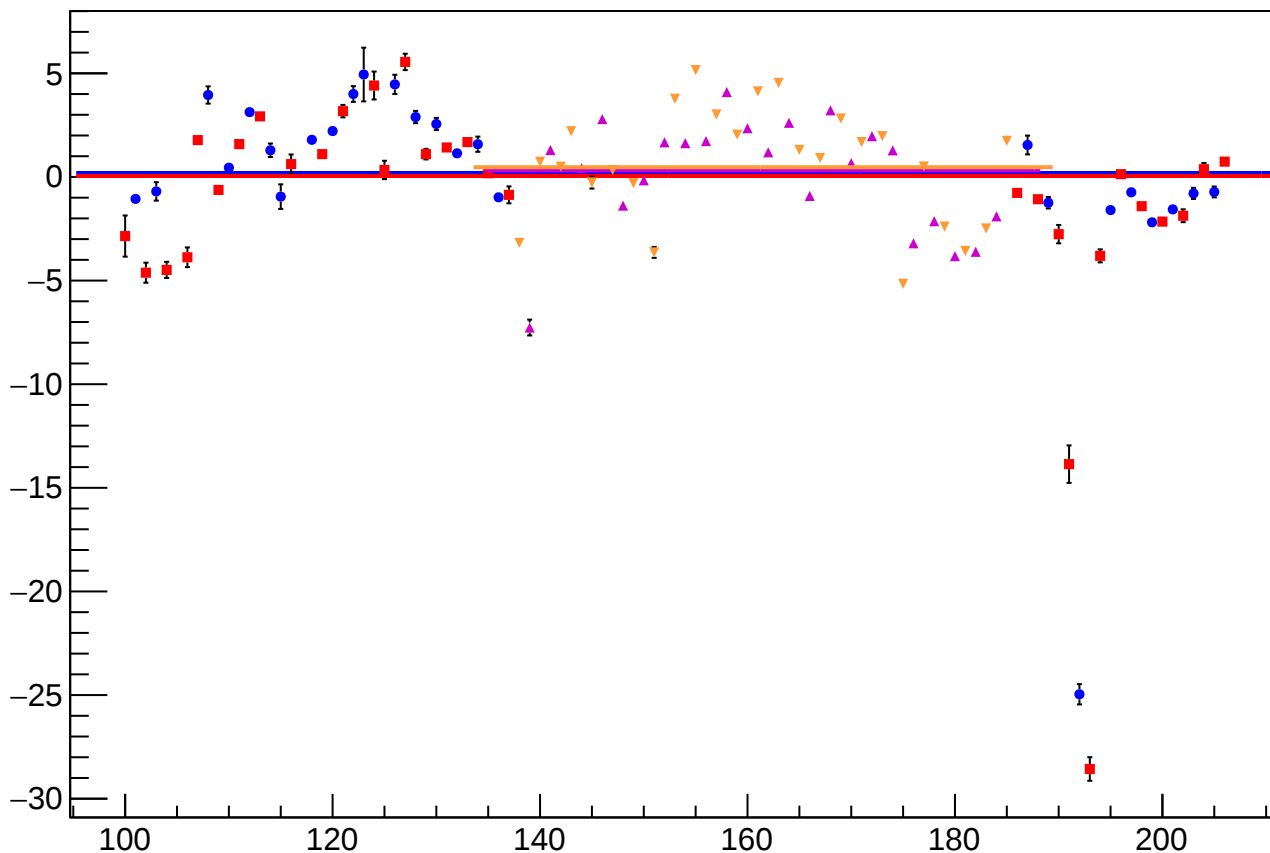
Right: 6.534 ± 0.045 $\chi^2/\text{NDF}: 51597.1/20$

In: -11.406 ± 0.033 $\chi^2/\text{NDF}: 163253.7/31$

Out: -10.932 ± 0.033 $\chi^2/\text{NDF}: 230007.5/36$

All: -11.163 ± 0.023 $\chi^2/\text{NDF}: 393364.6/68$

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.192 $\pm$ 0.050 χ^2 /NDF: 3943.8/25

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF: 7093.0/24

Right Out: 0.047 $\pm$ 0.046 χ^2 /NDF: 4416.2/30

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

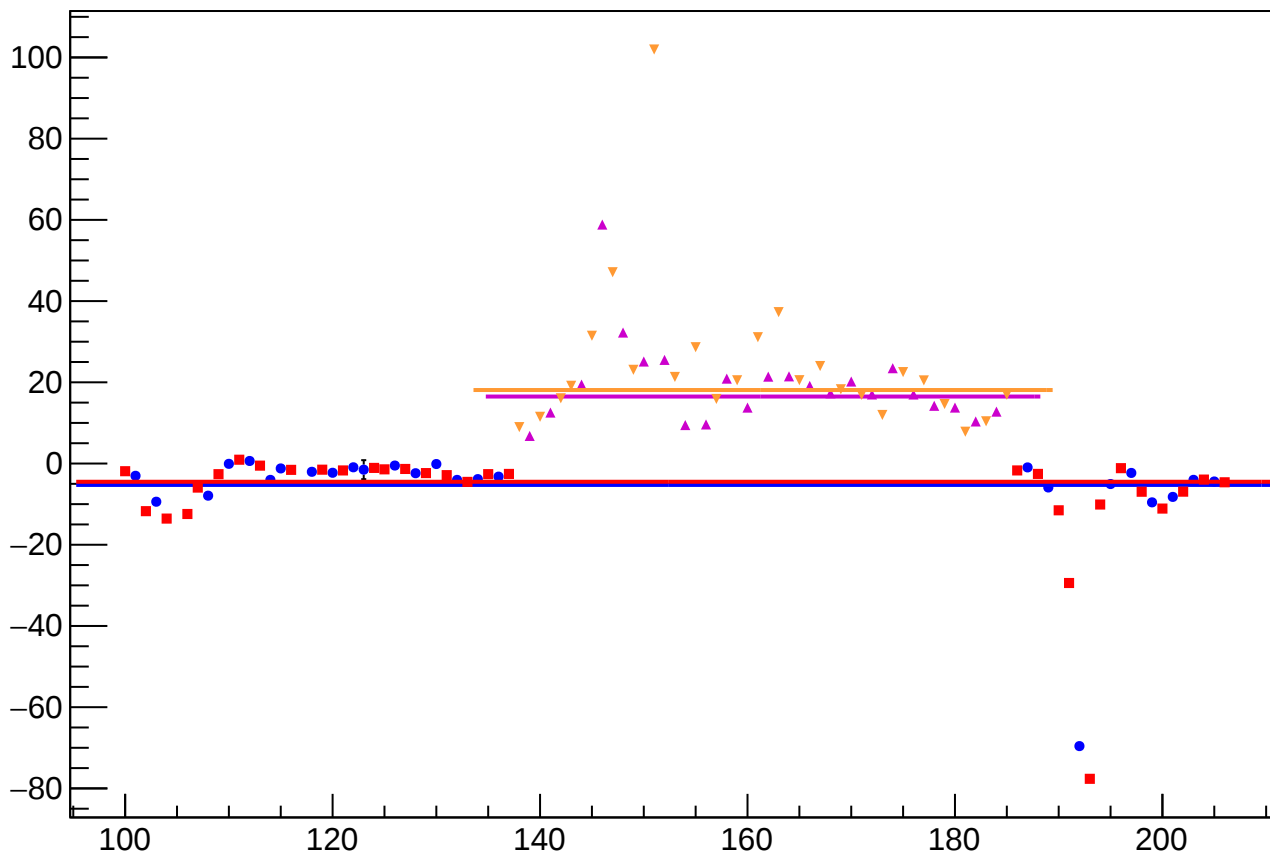
Right: 0.113 $\pm$ 0.034 χ^2 /NDF: 8364.6/56

In: 0.278 $\pm$ 0.026 χ^2 /NDF: 10131.1/48

Out: 0.329 $\pm$ 0.026 χ^2 /NDF: 11565.8/55

All: 0.303 $\pm$ 0.019 χ^2 /NDF: 21698.8/104

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.267+/-0.054 χ^2/NDF : 26969.1/25

Left Out: 18.101+/-0.039 χ^2/NDF : 77839.7/24

Right Out: -4.489+/-0.046 χ^2/NDF : 28135.7/30

Left In: 16.496+/-0.038 χ^2/NDF : 40867.3/22

Left: 17.270+/-0.027 χ^2/NDF : 119584.1/47

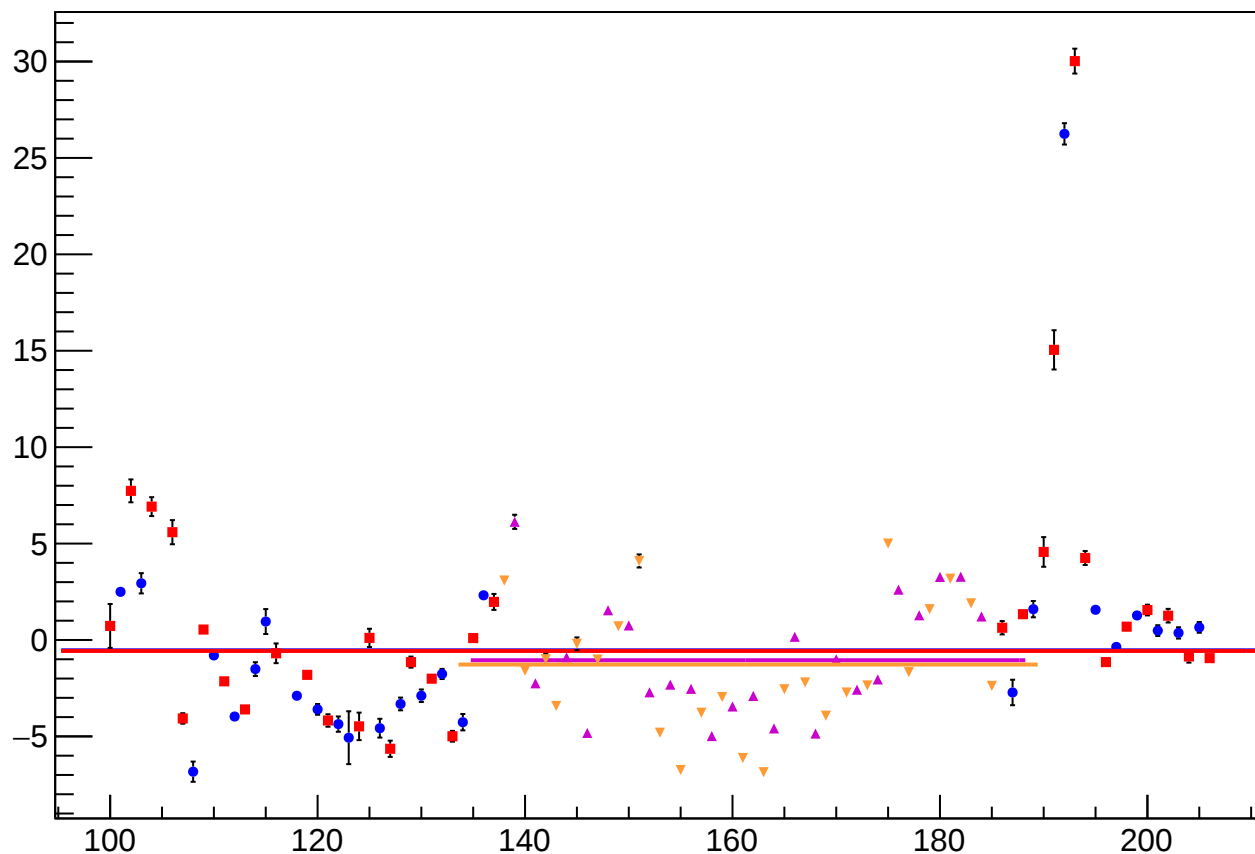
Right: -4.812+/-0.035 χ^2/NDF : 55225.1/56

In: 9.422+/-0.031 χ^2/NDF : 176420.6/48

Out: 8.594+/-0.030 χ^2/NDF : 247253.8/55

All: 8.991+/-0.021 χ^2/NDF : 424047.0/104

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.537 ± 0.058 $\chi^2/\text{NDF}: 4015.1/25$

Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$

Right Out: -0.567 ± 0.053 $\chi^2/\text{NDF}: 4621.3/30$

Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$

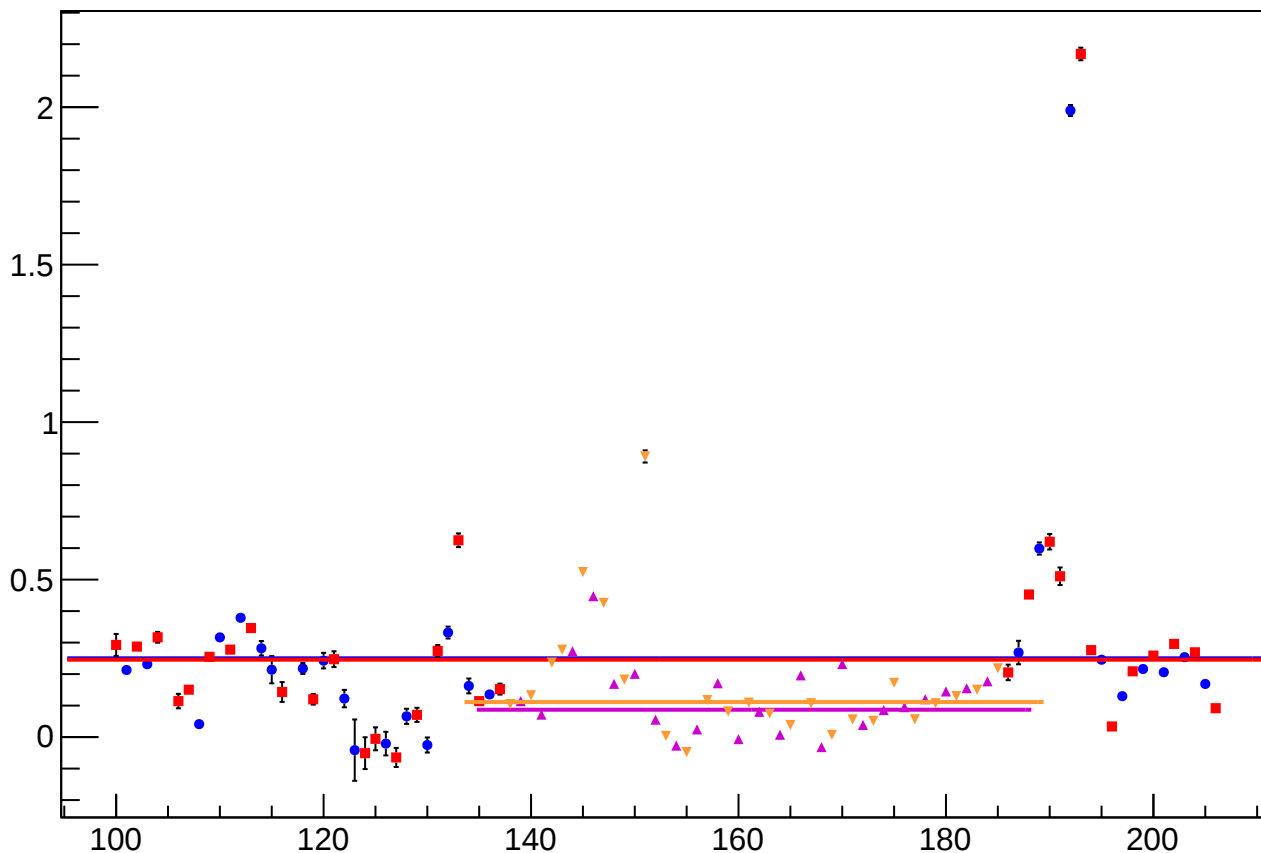
Right: -0.553 ± 0.039 $\chi^2/\text{NDF}: 8636.6/56$

In: -0.919 ± 0.029 $\chi^2/\text{NDF}: 10746.9/48$

Out: -1.054 ± 0.030 $\chi^2/\text{NDF}: 12693.2/55$

All: -0.986 ± 0.021 $\chi^2/\text{NDF}: 23450.6/104$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.250 ± 0.003 $\chi^2/\text{NDF}: 11327.4/25$

Left Out: 0.111 ± 0.002 $\chi^2/\text{NDF}: 4474.5/24$

Right Out: 0.246 ± 0.002 $\chi^2/\text{NDF}: 12028.2/30$

Left In: 0.087 ± 0.001 $\chi^2/\text{NDF}: 3598.5/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8197.1/47$

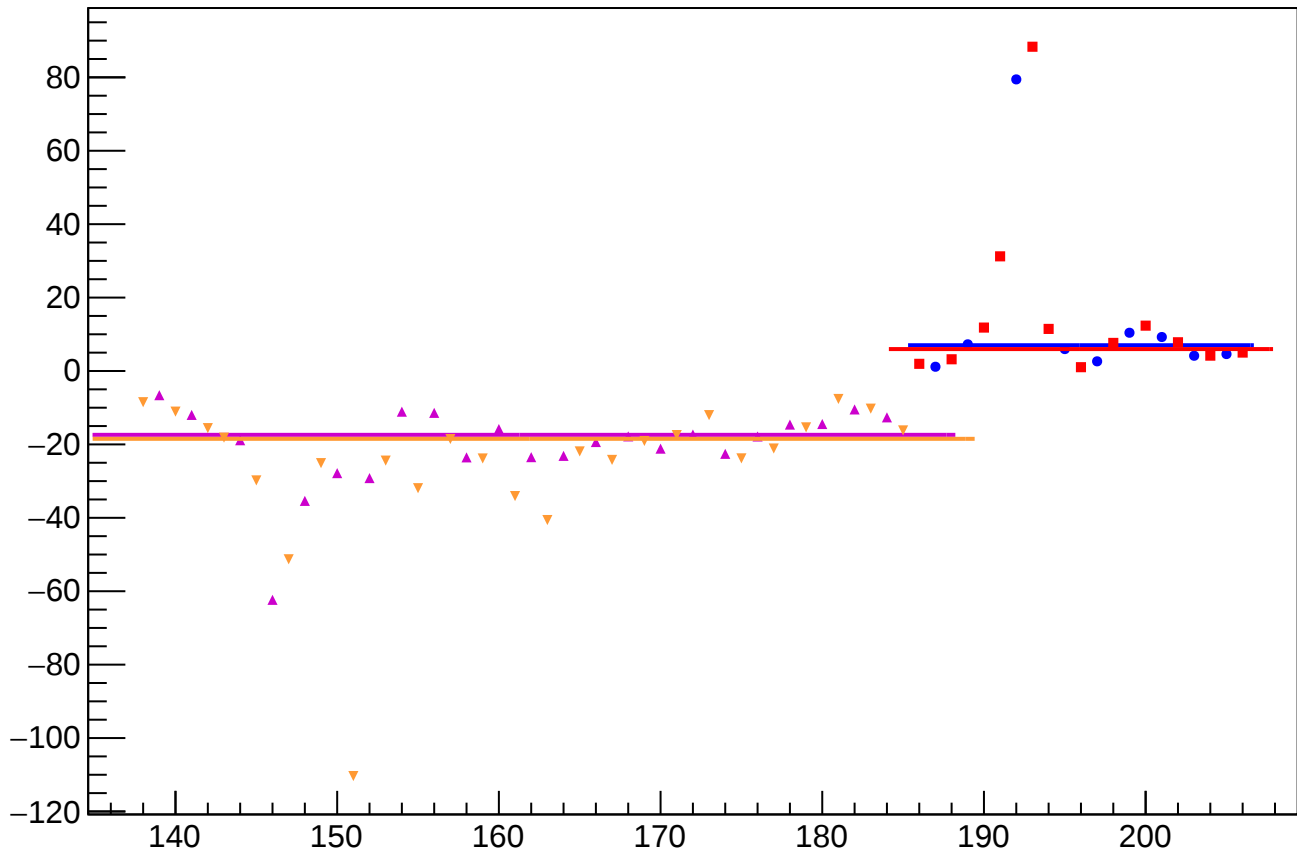
Right: 0.248 ± 0.002 $\chi^2/\text{NDF}: 23357.1/56$

In: 0.128 ± 0.001 $\chi^2/\text{NDF}: 17917.8/48$

Out: 0.152 ± 0.001 $\chi^2/\text{NDF}: 18659.8/55$

All: 0.140 ± 0.001 $\chi^2/\text{NDF}: 36748.4/104$

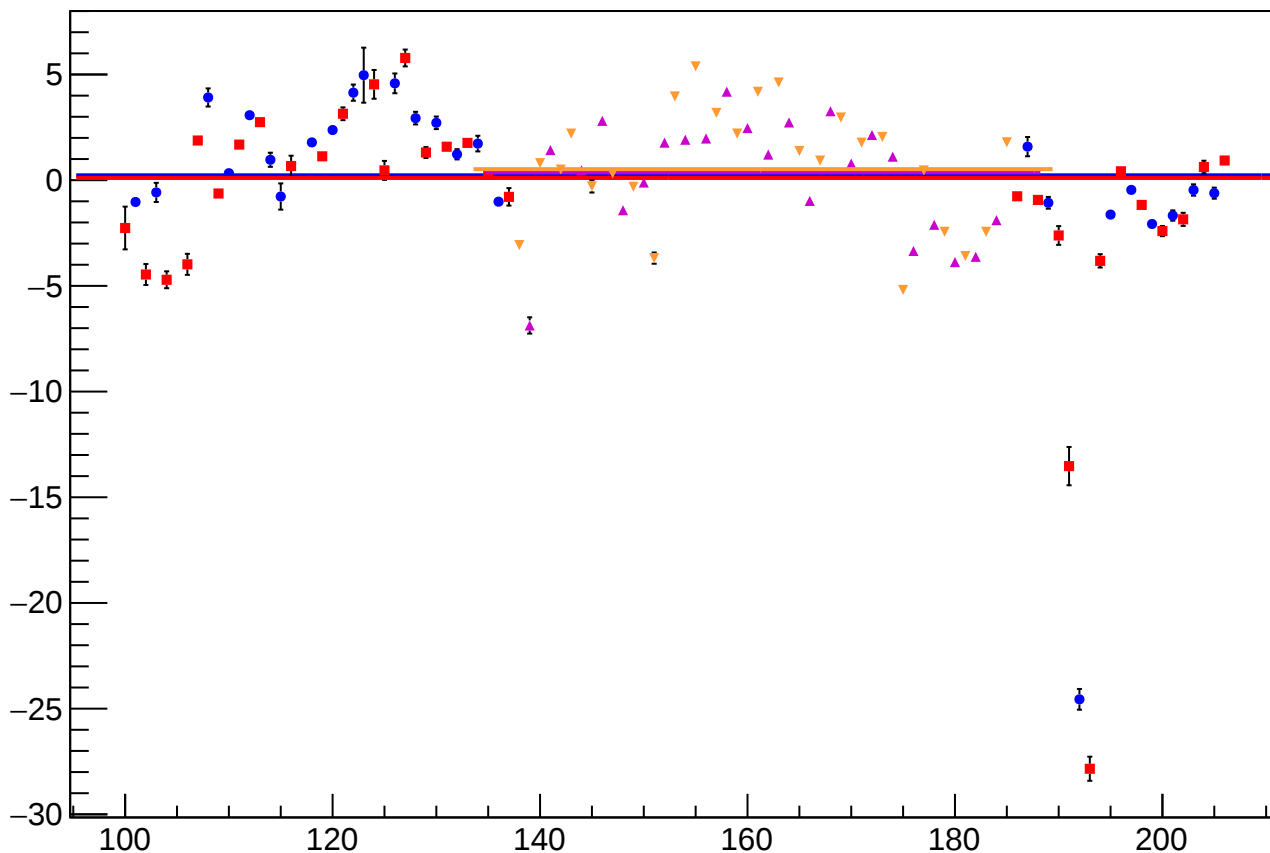
reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.020 ± 0.069 $\chi^2/\text{NDF}: 24941.4/8$
 Left Out: -18.479 ± 0.040 $\chi^2/\text{NDF}: 87883.4/24$
 Right Out: 5.972 ± 0.060 $\chi^2/\text{NDF}: 25702.4/11$
 Left In: -17.393 ± 0.039 $\chi^2/\text{NDF}: 43178.9/22$

Left: -17.926 ± 0.028 $\chi^2/\text{NDF}: 131443.9/47$
 Right: 6.419 ± 0.045 $\chi^2/\text{NDF}: 50774.2/20$
 In: -11.552 ± 0.034 $\chi^2/\text{NDF}: 162065.9/31$
 Out: -11.020 ± 0.033 $\chi^2/\text{NDF}: 229310.6/36$
 All: -11.279 ± 0.024 $\chi^2/\text{NDF}: 391502.5/68$

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.231 $\pm$ 0.051 χ^2 /NDF: 3811.7/25

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF:7055.1/24

Right Out: 0.104 $\pm$ 0.047 χ^2 /NDF: 4259.9/30

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

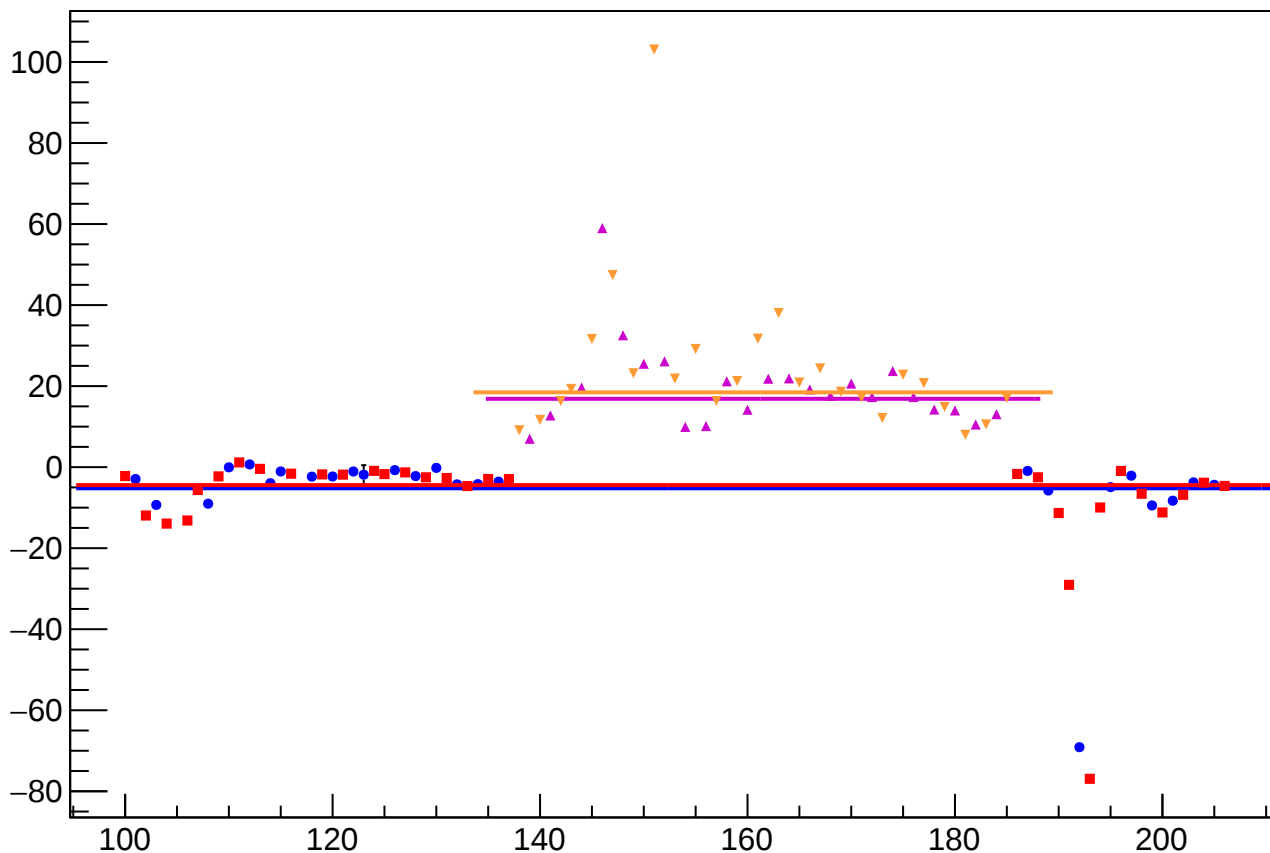
Right: 0.163 $\pm$ 0.034 χ^2 /NDF: 8075.0/56

In: 0.332 $\pm$ 0.027 χ^2 /NDF:10034.7/48

Out: 0.382 $\pm$ 0.027 χ^2 /NDF:11368.4/55

All: 0.357 $\pm$ 0.019 χ^2 /NDF: 21404.8/104

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.218 ± 0.055 $\chi^2/\text{NDF}: 26524.1/25$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -4.429 ± 0.046 $\chi^2/\text{NDF}: 27641.2/30$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

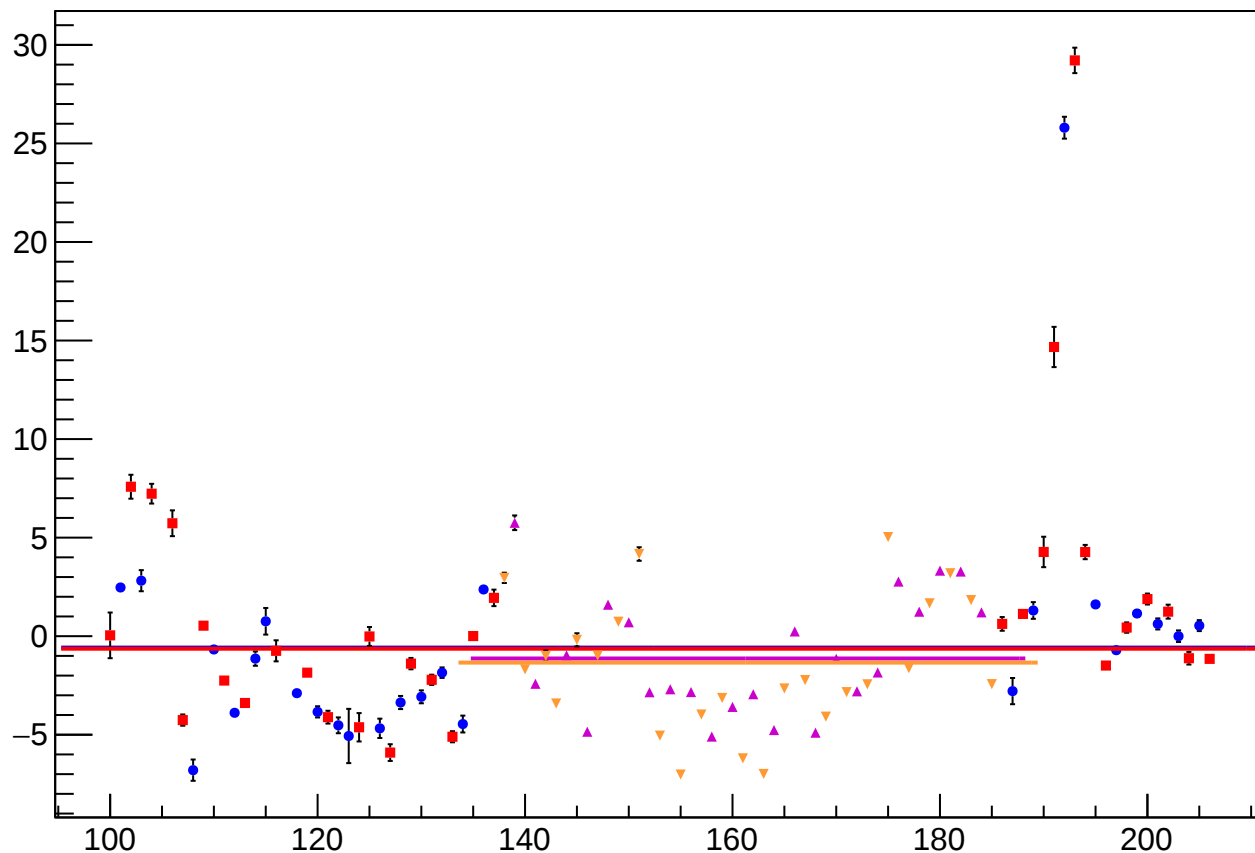
Right: -4.756 ± 0.035 $\chi^2/\text{NDF}: 54287.1/56$

In: 9.531 ± 0.032 $\chi^2/\text{NDF}: 175231.4/48$

Out: 8.658 ± 0.030 $\chi^2/\text{NDF}: 246047.4/55$

All: 9.075 ± 0.022 $\chi^2/\text{NDF}: 421679.2/104$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.580 ± 0.059 $\chi^2/\text{NDF}: 3898.9/25$

Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$

Right Out: -0.635 ± 0.054 $\chi^2/\text{NDF}: 4468.5/30$

Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$

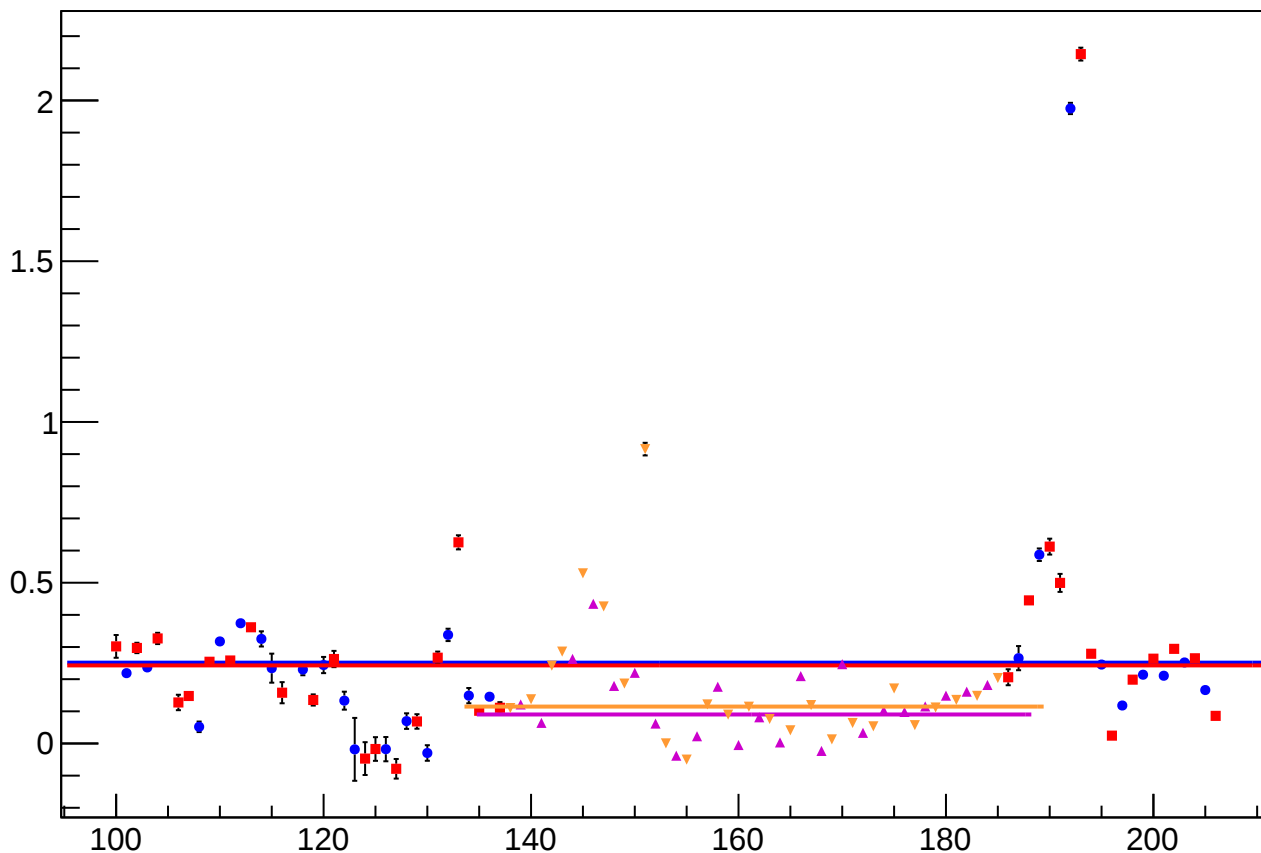
Right: -0.610 ± 0.040 $\chi^2/\text{NDF}: 8367.9/56$

In: -0.988 ± 0.030 $\chi^2/\text{NDF}: 10672.8/48$

Out: -1.120 ± 0.030 $\chi^2/\text{NDF}: 12491.7/55$

All: -1.053 ± 0.021 $\chi^2/\text{NDF}: 23174.1/104$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.251 ± 0.003 $\chi^2/\text{NDF}: 11070.8/25$

Left Out: 0.115 ± 0.002 $\chi^2/\text{NDF}: 4431.9/24$

Right Out: 0.243 ± 0.002 $\chi^2/\text{NDF}: 11890.1/30$

Left In: 0.090 ± 0.002 $\chi^2/\text{NDF}: 3676.5/22$

Left: 0.102 ± 0.001 $\chi^2/\text{NDF}: 8228.2/47$

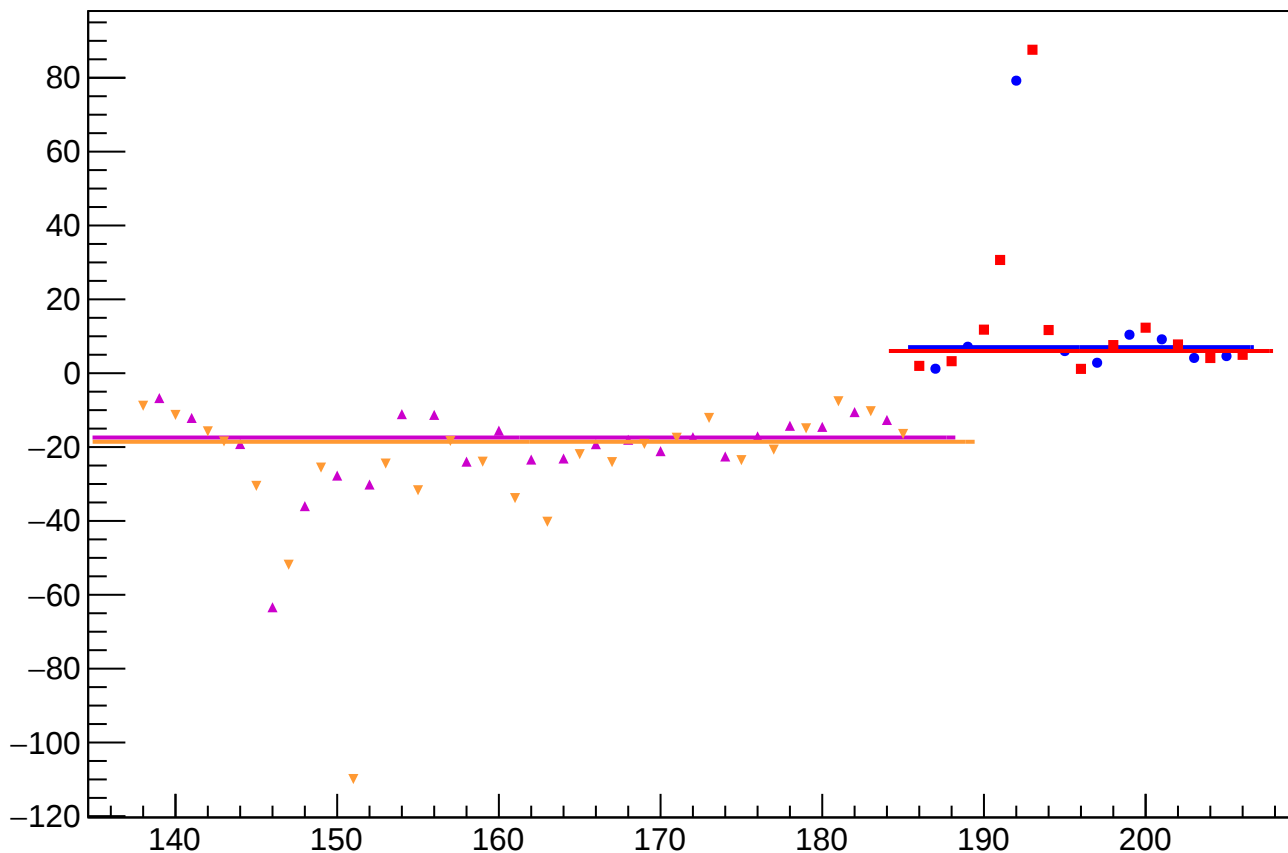
Right: 0.247 ± 0.002 $\chi^2/\text{NDF}: 22966.6/56$

In: 0.132 ± 0.001 $\chi^2/\text{NDF}: 17584.0/48$

Out: 0.154 ± 0.001 $\chi^2/\text{NDF}: 18221.7/55$

All: 0.143 ± 0.001 $\chi^2/\text{NDF}: 35949.0/104$

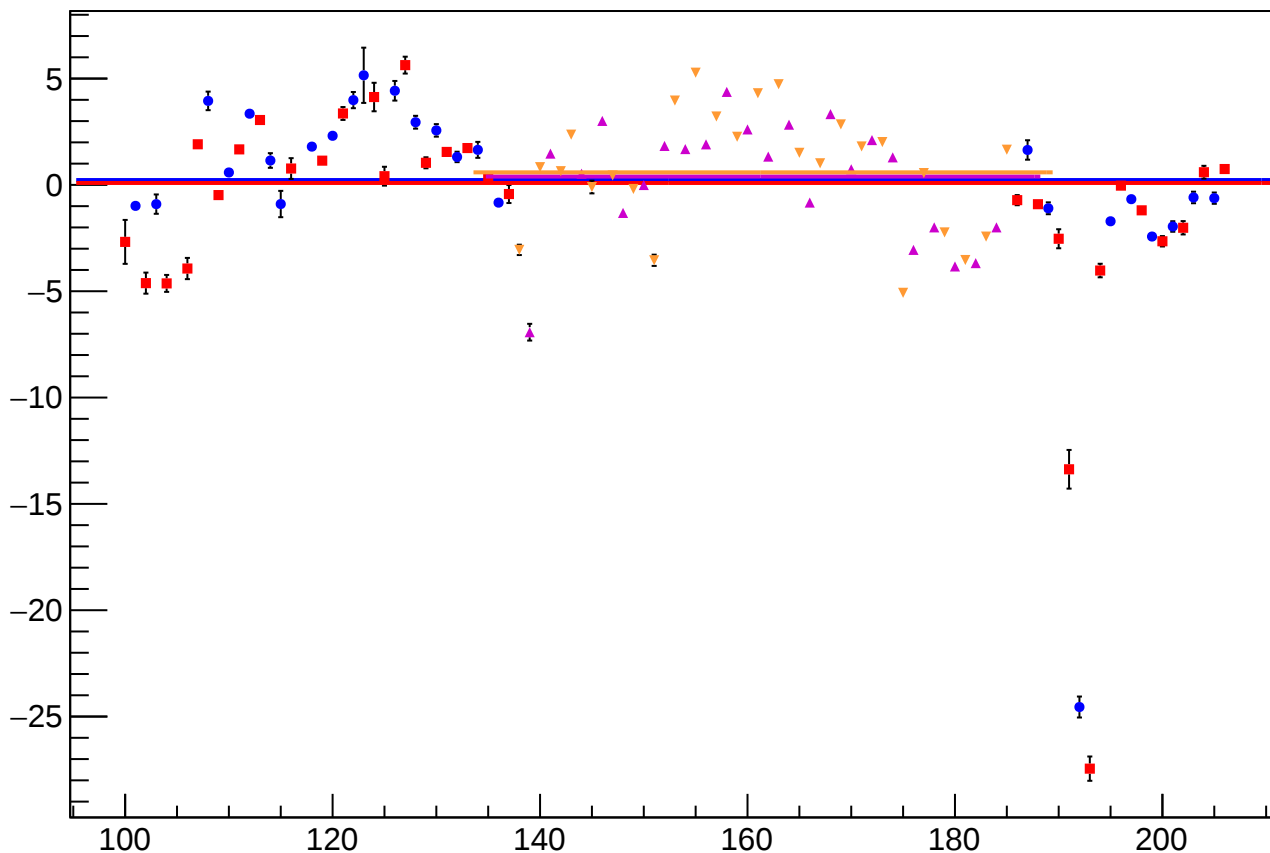
reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.060 ± 0.070 $\chi^2/\text{NDF}: 24451.8/8$
 Left Out: -18.566 ± 0.040 $\chi^2/\text{NDF}: 86389.6/24$
 Right Out: 6.016 ± 0.061 $\chi^2/\text{NDF}: 25052.6/11$
 Left In: -17.414 ± 0.039 $\chi^2/\text{NDF}: 43504.1/22$

Left: -17.979 ± 0.028 $\chi^2/\text{NDF}: 130314.7/47$
 Right: 6.462 ± 0.046 $\chi^2/\text{NDF}: 49630.8/20$
 In: -11.583 ± 0.034 $\chi^2/\text{NDF}: 160341.0/31$
 Out: -11.095 ± 0.033 $\chi^2/\text{NDF}: 225681.3/36$
 All: -11.333 ± 0.024 $\chi^2/\text{NDF}: 386126.4/68$

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.228 $\pm$ 0.051 χ^2 /NDF: 3857.1/25

Left Out: 0.591 $\pm$ 0.033 χ^2 /NDF: 6796.5/24

Right Out: 0.091 $\pm$ 0.047 χ^2 /NDF: 4212.5/30

Left In: 0.394 $\pm$ 0.032 χ^2 /NDF: 6059.8/22

Left: 0.488 $\pm$ 0.023 χ^2 /NDF: 12874.6/47

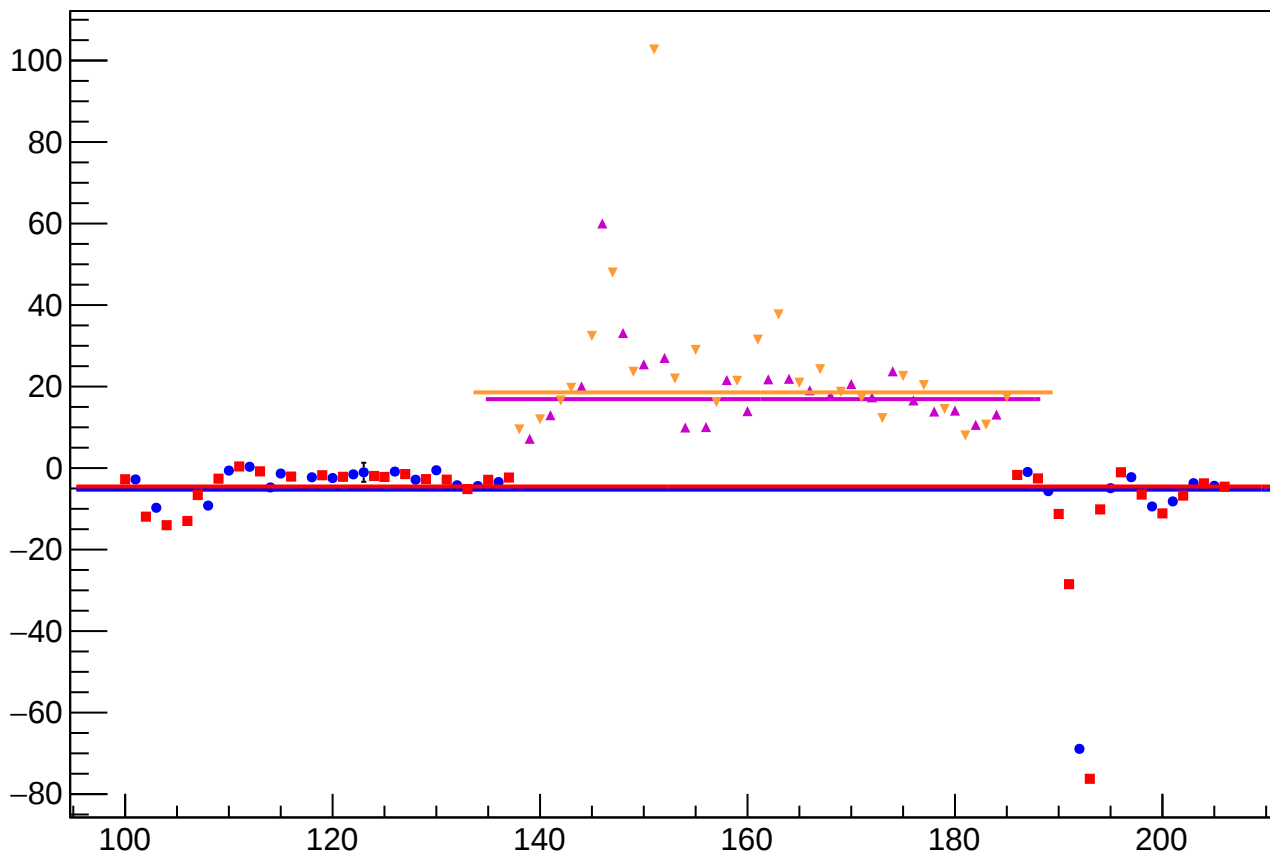
Right: 0.154 $\pm$ 0.035 χ^2 /NDF: 8073.5/56

In: 0.348 $\pm$ 0.027 χ^2 /NDF: 9924.5/48

Out: 0.425 $\pm$ 0.027 χ^2 /NDF: 11083.9/55

All: 0.386 $\pm$ 0.019 χ^2 /NDF: 21012.4/104

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.293 ± 0.055 $\chi^2/\text{NDF}: 25834.9/25$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -4.520 ± 0.047 $\chi^2/\text{NDF}: 26744.9/30$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

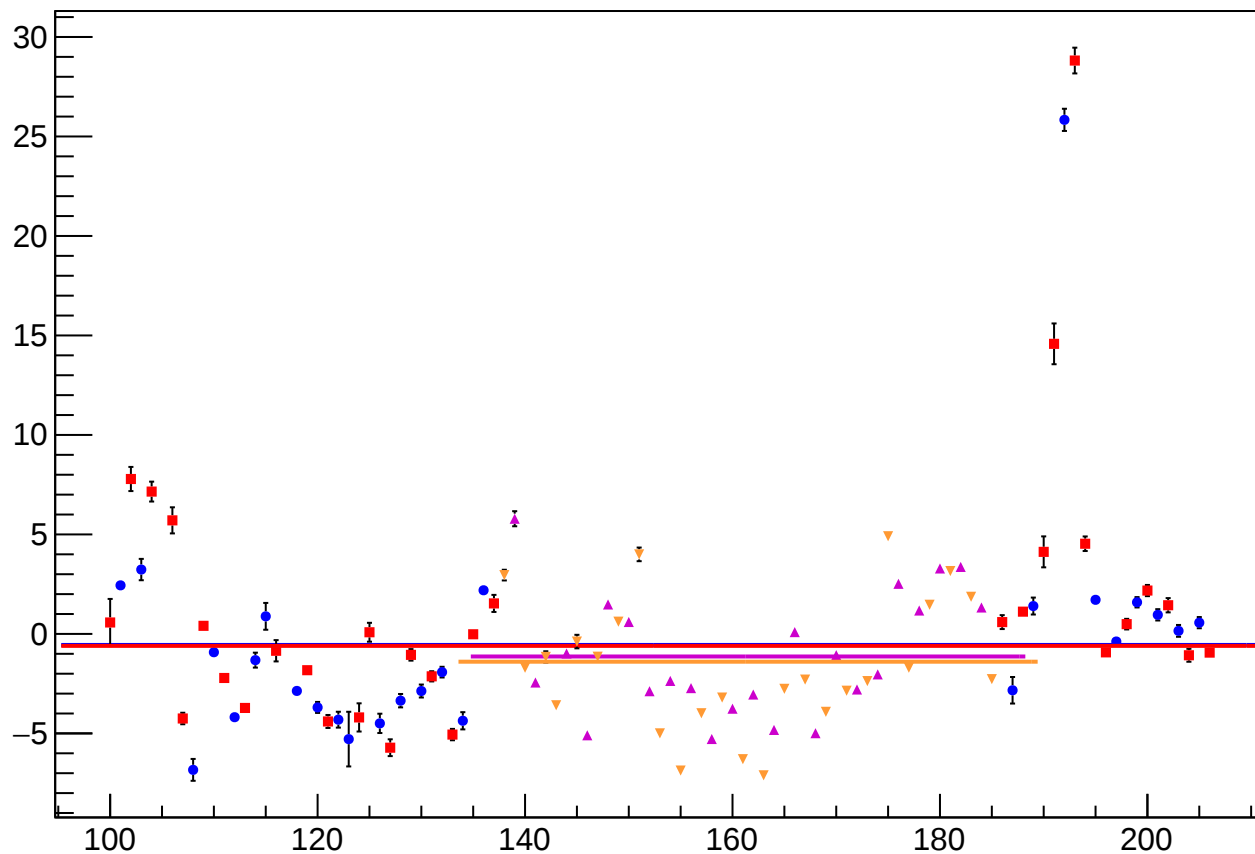
Right: -4.842 ± 0.036 $\chi^2/\text{NDF}: 52693.6/56$

In: 9.575 ± 0.032 $\chi^2/\text{NDF}: 173746.7/48$

Out: 8.738 ± 0.031 $\chi^2/\text{NDF}: 242900.2/55$

All: 9.139 ± 0.022 $\chi^2/\text{NDF}: 417007.6/104$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.555 ± 0.059 χ^2/NDF : 3898.7/25

Left Out: -1.396 ± 0.037 χ^2/NDF : 7651.5/24

Right Out: -0.601 ± 0.055 χ^2/NDF : 4407.2/30

Left In: -1.135 ± 0.035 χ^2/NDF : 6597.7/22

Left: -1.259 ± 0.025 χ^2/NDF : 14275.6/47

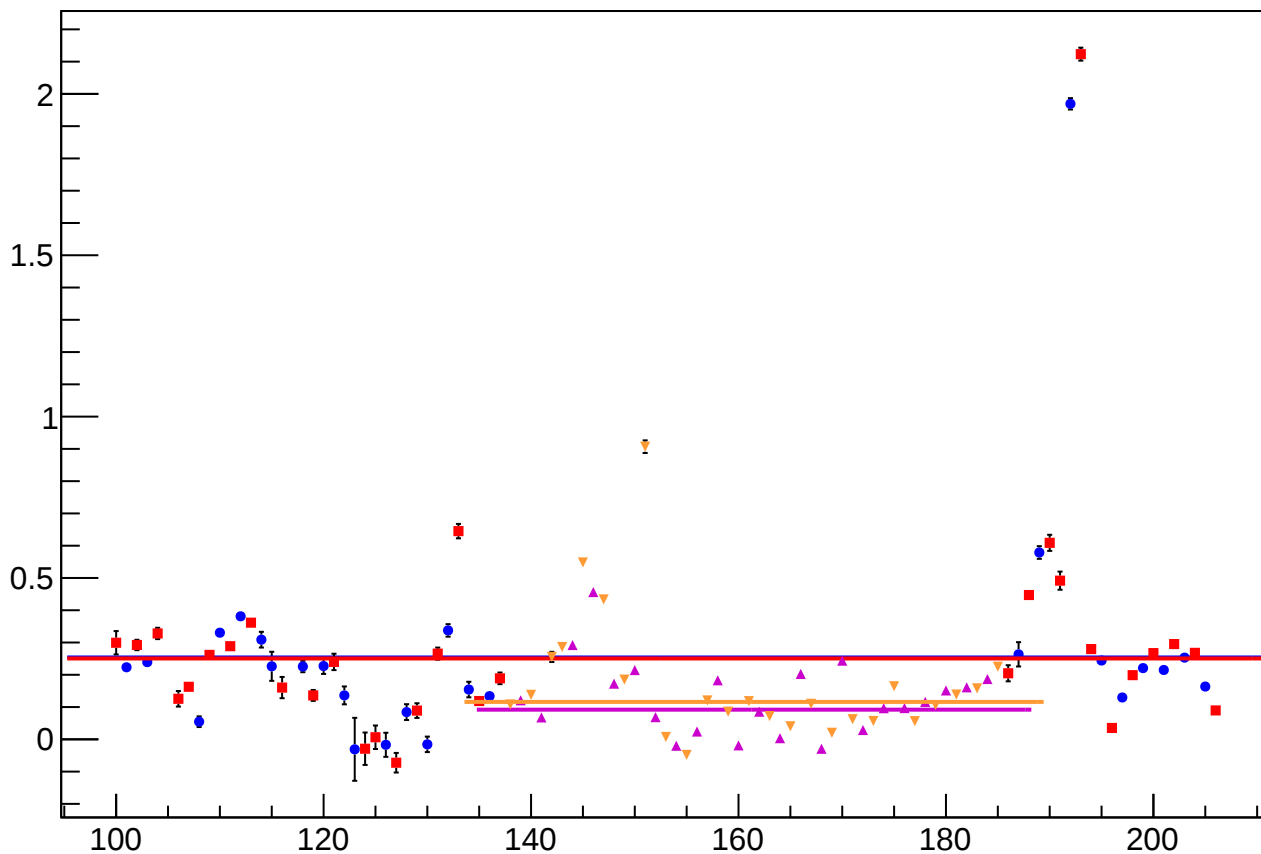
Right: -0.580 ± 0.040 χ^2/NDF : 8306.2/56

In: -0.984 ± 0.030 χ^2/NDF : 10566.9/48

Out: -1.150 ± 0.031 χ^2/NDF : 12202.8/55

All: -1.066 ± 0.022 χ^2/NDF : 22784.5/104

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.254 $\pm$ 0.003 χ^2 /NDF: 10830.9/25

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.251 $\pm$ 0.002 χ^2 /NDF: 11368.6/30

Left In: 0.092 $\pm$ 0.002 χ^2 /NDF:3631.4/22

Left: 0.103 $\pm$ 0.001 χ^2 /NDF: 8207.3/47

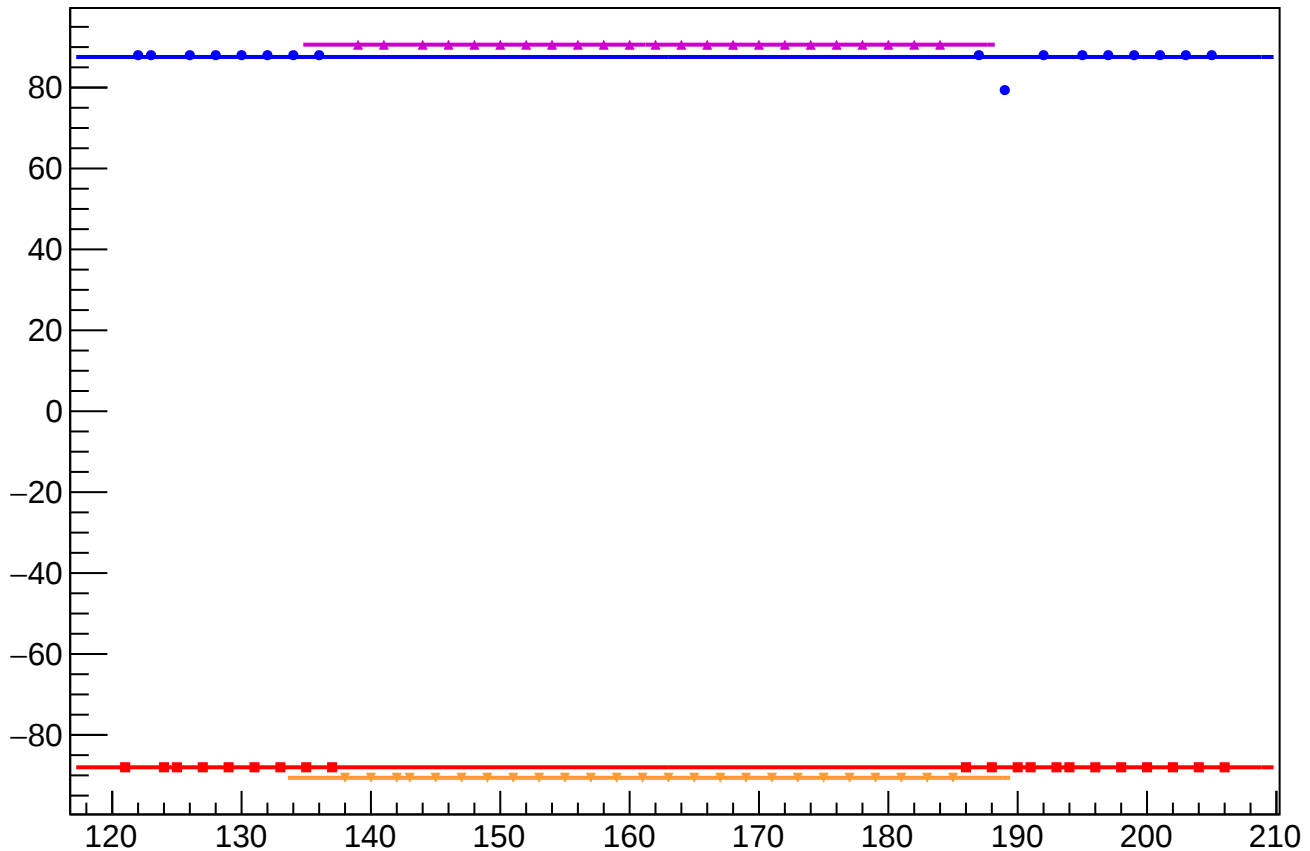
Right: 0.252 $\pm$ 0.002 χ^2 /NDF: 22200.3/56

In: 0.133 $\pm$ 0.001 χ^2 /NDF:17252.2/48

Out: 0.157 $\pm$ 0.001 χ^2 /NDF:17872.7/55

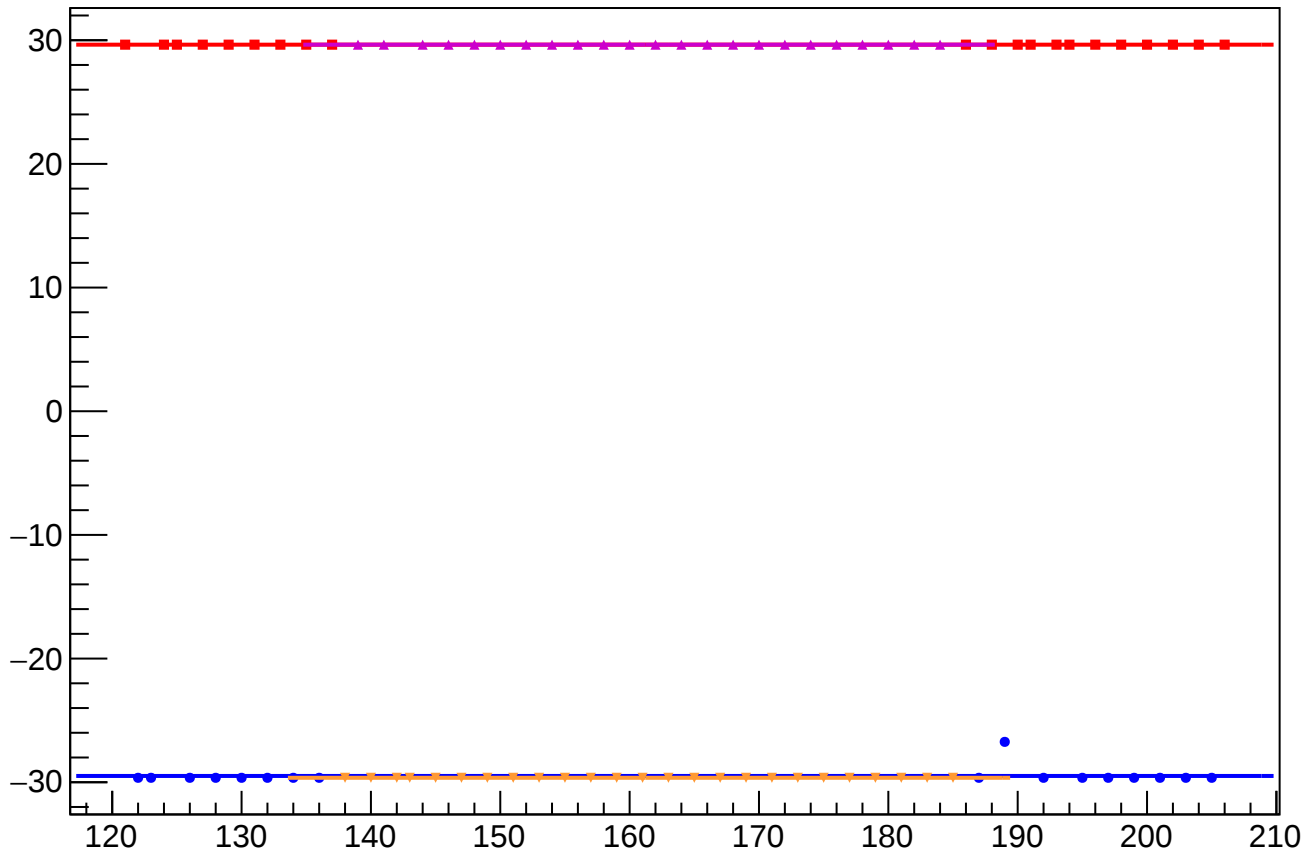
All: 0.145 $\pm$ 0.001 χ^2 /NDF: 35279.8/104

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.558 +/- 0.000 χ^2/NDF : 3601171224535367171232738349940736.0/16
 Left Out: -90.599 +/- 0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001 +/- 0.000 χ^2/NDF : 1088501.8/20
 Left In: 90.599 +/- 0.000 χ^2/NDF : 5932436.0/22
 In: 89.522 +/- 0.000 χ^2/NDF : 95348244295026755
 Out: -89.625 +/- 0.000 χ^2/NDF : 4833975205532485
 All: -3.889 +/- 0.000 χ^2/NDF : 4693751320166

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.491+/-0.000

χ^2/NDF : 408553081078920346055880990523392.0/16

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

Right: 2.177+/-0.000 χ^2/NDF : 18599013122636110

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

In: 8.700+/-0.000 χ^2/NDF : 224293279641047974

Right Out: 29.641+/-0.000

χ^2/NDF : 1378979.3/20

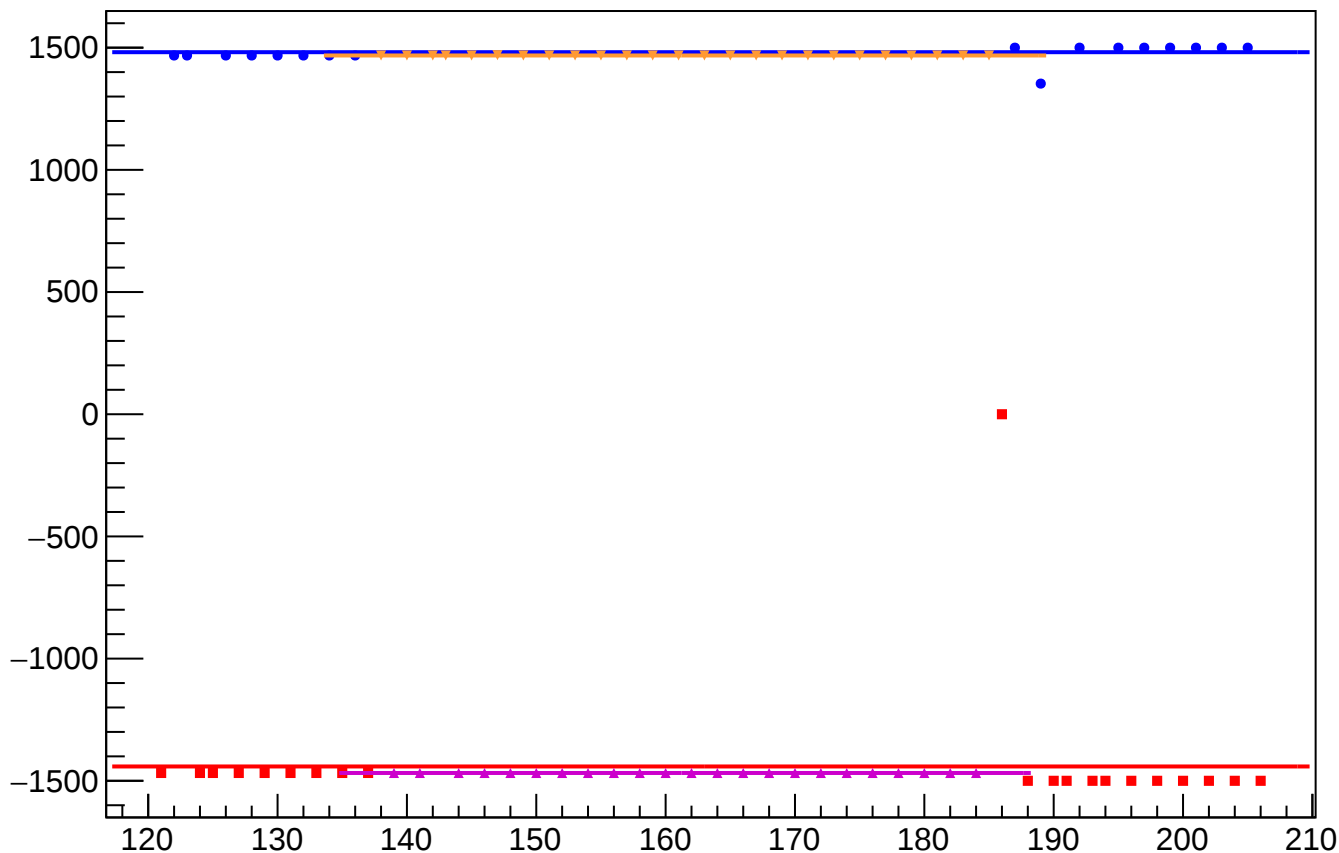
Out: -7.422+/-0.000 χ^2/NDF : 25157335052188228

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

All: 0.293+/-0.000 χ^2/NDF : 51386896591485

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1481.516+/-0.000

χ^2/NDF : 1111252183257667240430449948440395776.0/16

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1441.354+/-0.000

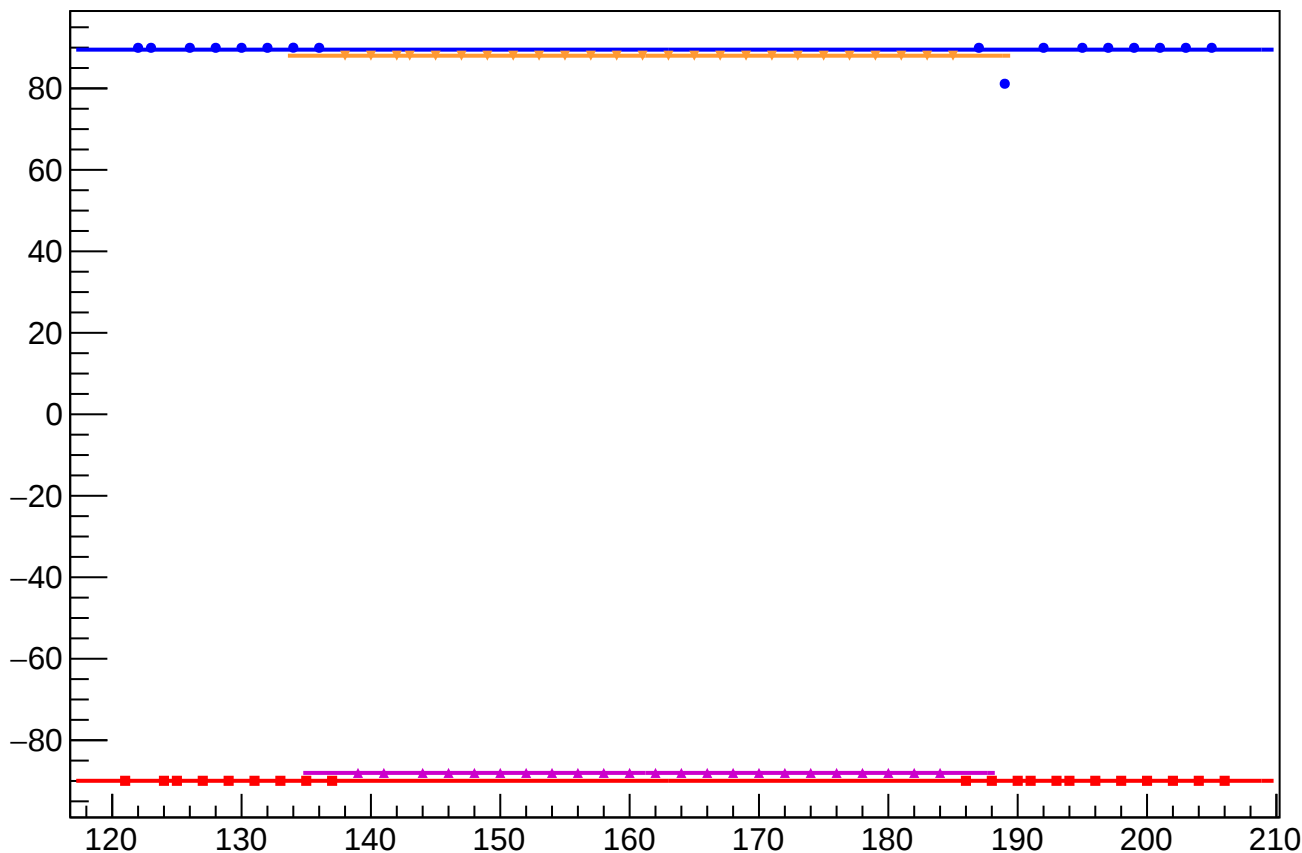
χ^2/NDF : 81885902076170497931191322306435612672.0/20

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

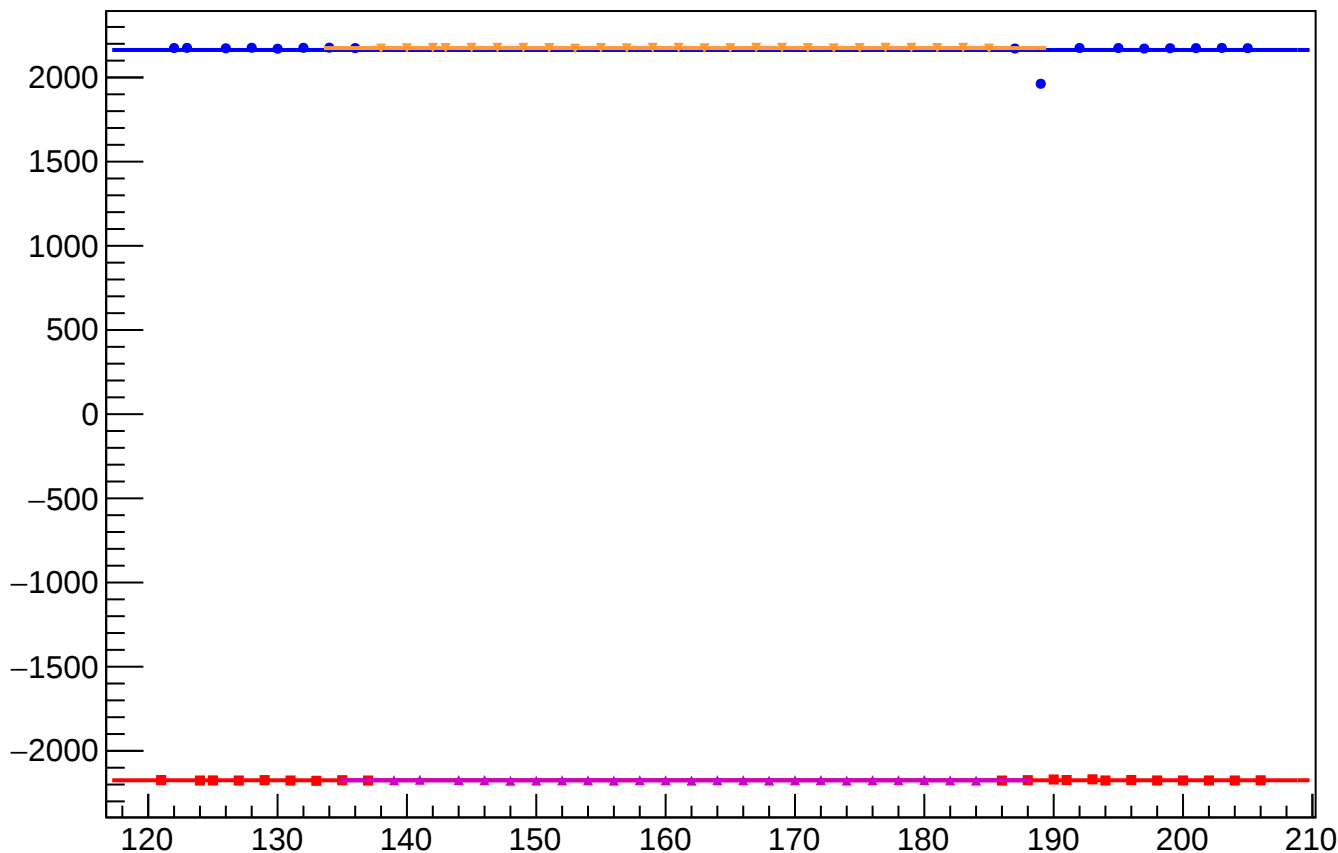
All: -5.764+/-0.000 χ^2/NDF : 1266014608641

Phi_FG_mean vs Slug, Sign Corrected



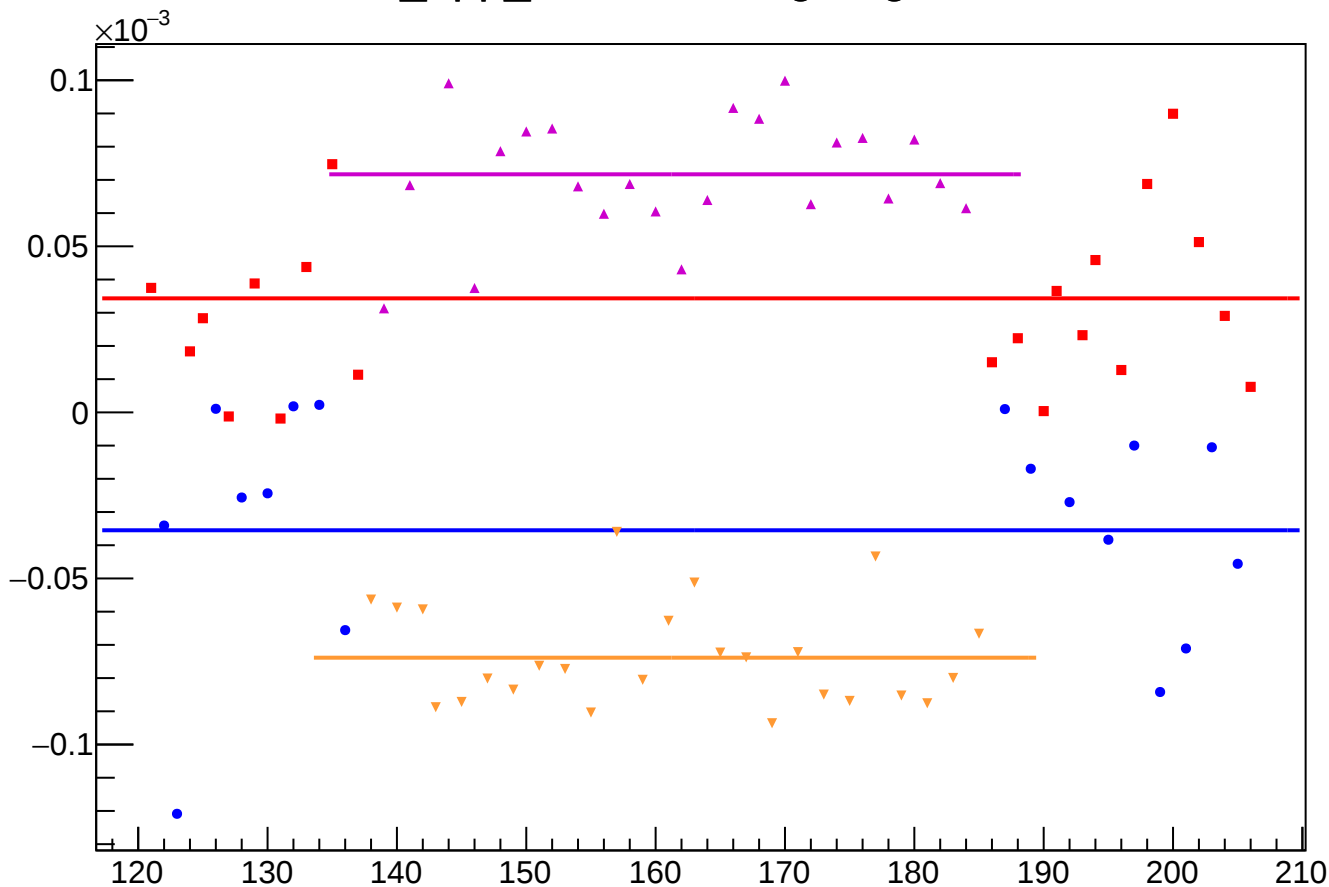
Right In: 89.507+/-0.000 χ^2/NDF : 3763905714374076937825389702545408.0/16
 Left Out: 88.021+/-0.000 χ^2/NDF : 5326388.8/24
 Right Out: -89.959+/-0.000 χ^2/NDF : 3265707.4/20
 Left In: -88.021+/-0.000 χ^2/NDF : 6084099.2/22
 Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978
 Right: -6.606+/-0.000 χ^2/NDF : 1713201321575726
 In: -25.152+/-0.000 χ^2/NDF : 20216359992648430
 Out: 21.315+/-0.000 χ^2/NDF : 22676187754756096
 All: -0.923+/-0.000 χ^2/NDF : 4604929516395

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2163.406 $\pm$ 0.000 χ^2 /NDF: 2169695810816097003171645957152440320.0/16
 Left Out: 2174.622 $\pm$ 0.000 χ^2 /NDF: 5110578135476093110874911595823104.0/24
 Right Out: -2174.712 $\pm$ 0.000 χ^2 /NDF: 4600643160160708104960258634416128.0/20
 Left In: -2174.539 $\pm$ 0.000 χ^2 /NDF: 3400742562425168967494665391570944.0/22
 All: -21.564 $\pm$ 0.000 χ^2 /NDF: 276580350366

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 727565581088579966205952.0/16

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

Right Out: 0.000+/-0.000

χ^2/NDF : 777373102512458730307584.0/20

Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

Left: -0.000+/-0.000 χ^2/NDF : 20702696564433151

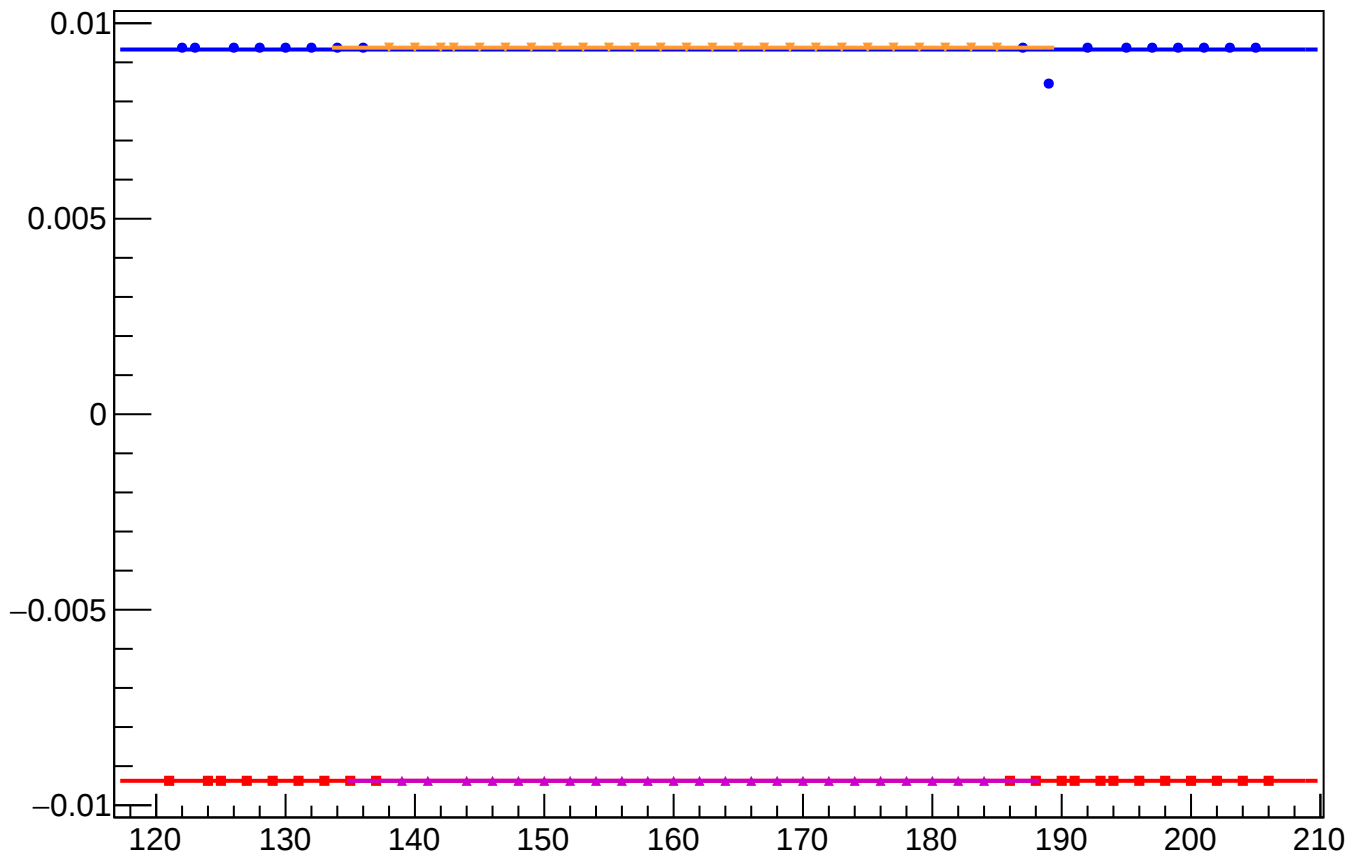
Right: 0.000+/-0.000 χ^2/NDF : 40977296221578217

In: 0.000+/-0.000 χ^2/NDF : 8656416724069338927

Out: -0.000+/-0.000 χ^2/NDF : 96068149332697328

All: -0.000+/-0.000 χ^2/NDF : 2483336744137

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40870884796515739232108544.0/16

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/20

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1860610427062981

In: -0.003+/-0.000

χ^2/NDF : 224378794761094399

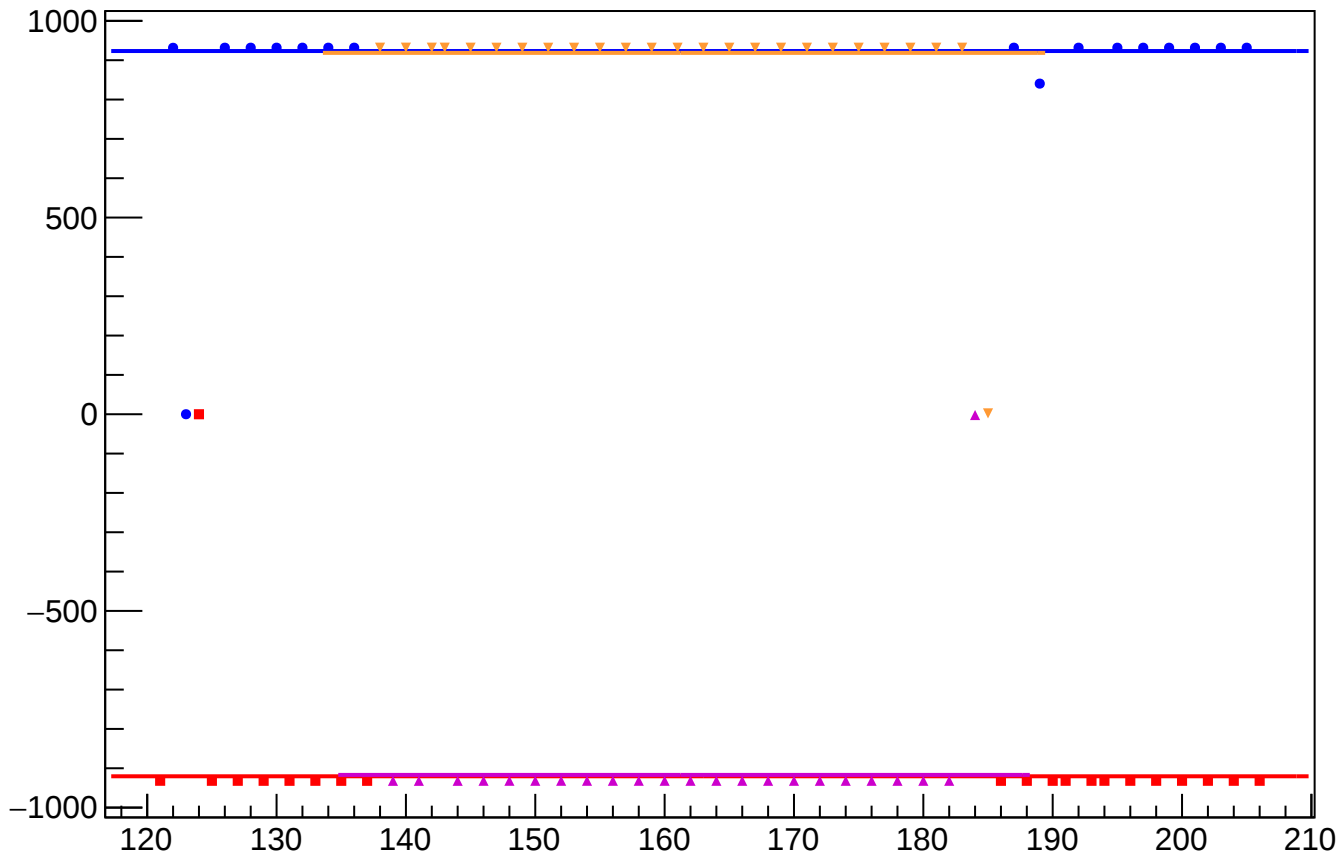
Out: 0.002+/-0.000

χ^2/NDF : 251669266571194157

All: -0.000+/-0.000

χ^2/NDF : 5140648860350

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 923.343+/-0.000

χ^2/NDF : 3826960072463967869683681765099569152.0/16

Left Out: 918.645+/-0.000

χ^2/NDF : 23003498704056084939752432521336324096.0/24

Right Out: -920.409+/-0.000

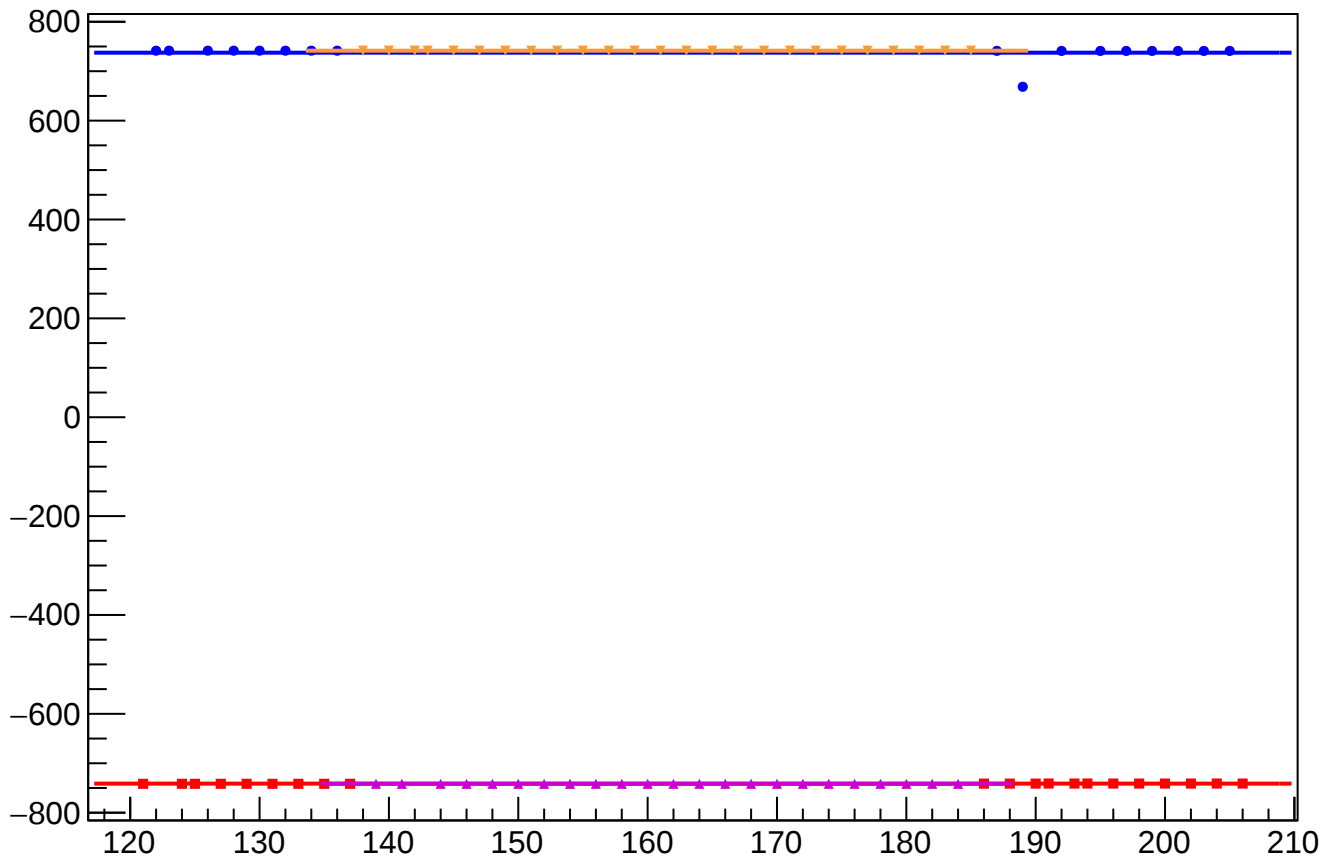
χ^2/NDF : 12006123041554225209656173023262146560.0/20

Left In: -916.890+/-0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

All: -7.316+/-0.000 χ^2/NDF : 5014124112616

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 737.474+/-0.000 χ^2/NDF : 255816001045454829804912527760424960.0/16

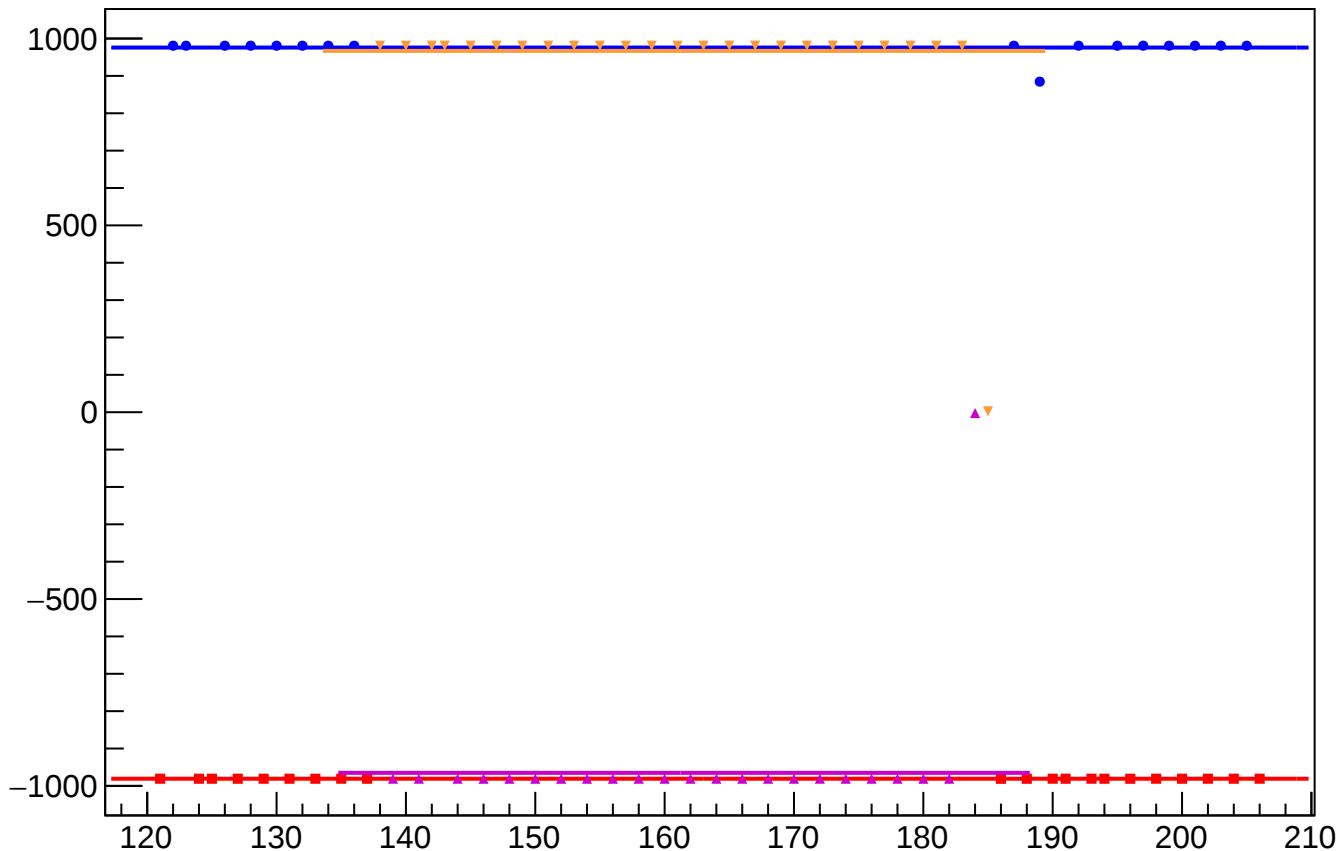
Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24

Right Out: -741.185+/-0.000 χ^2/NDF : 54134309969828496423833401556992.0/20

Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22

All: -7.328+/-0.000 χ^2/NDF : 3214972547293

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 975.879+/-0.000

χ^2/NDF : 447535072201167125195989582436368384.0/16

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.823+/-0.000

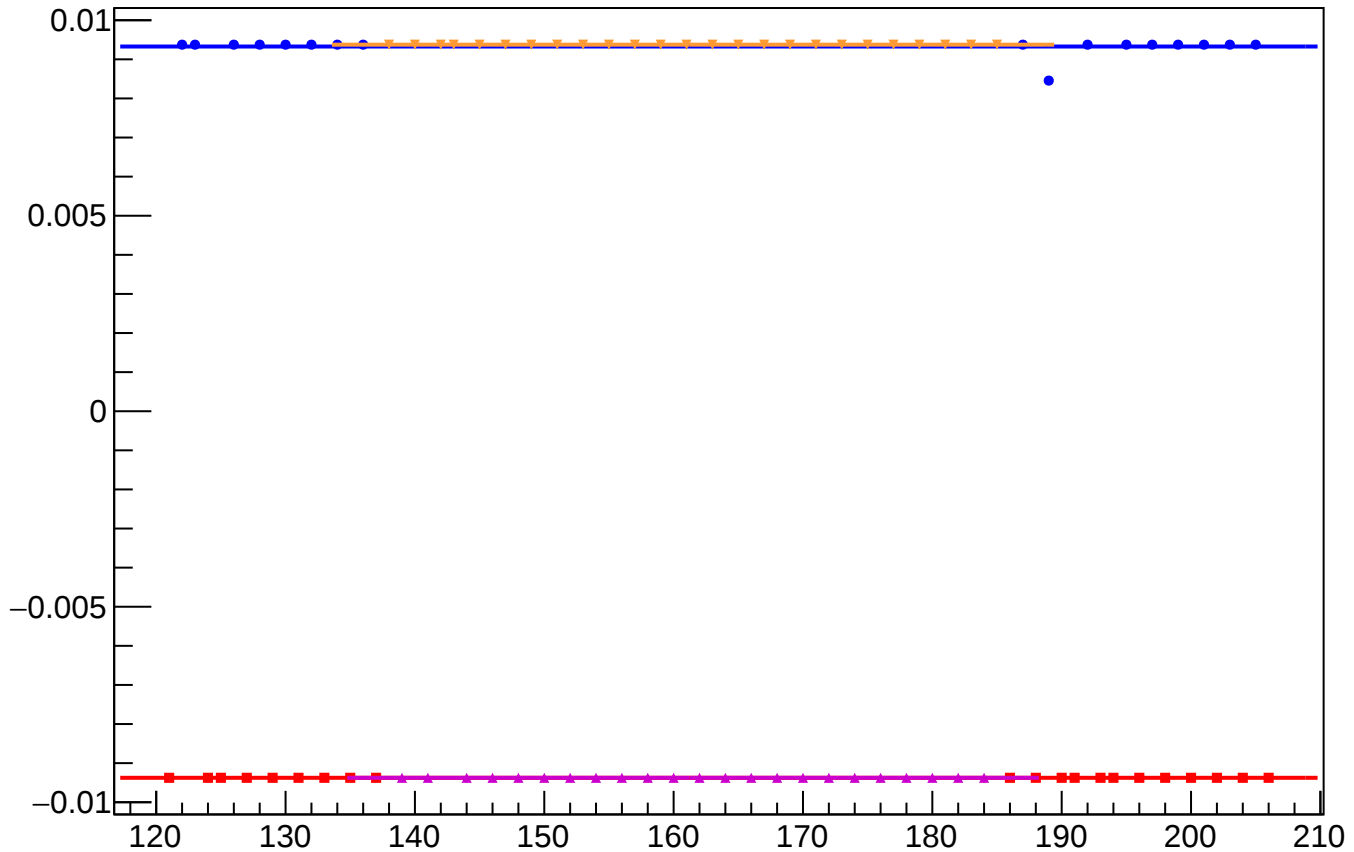
χ^2/NDF : 3267623981370471692182401056768.0/20

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: -9.378+/-0.000 χ^2/NDF : 5572515449180

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40870884796515739232108544.0/16

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/20

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1860610427062981

In: -0.003+/-0.000

χ^2/NDF : 224378794761094399

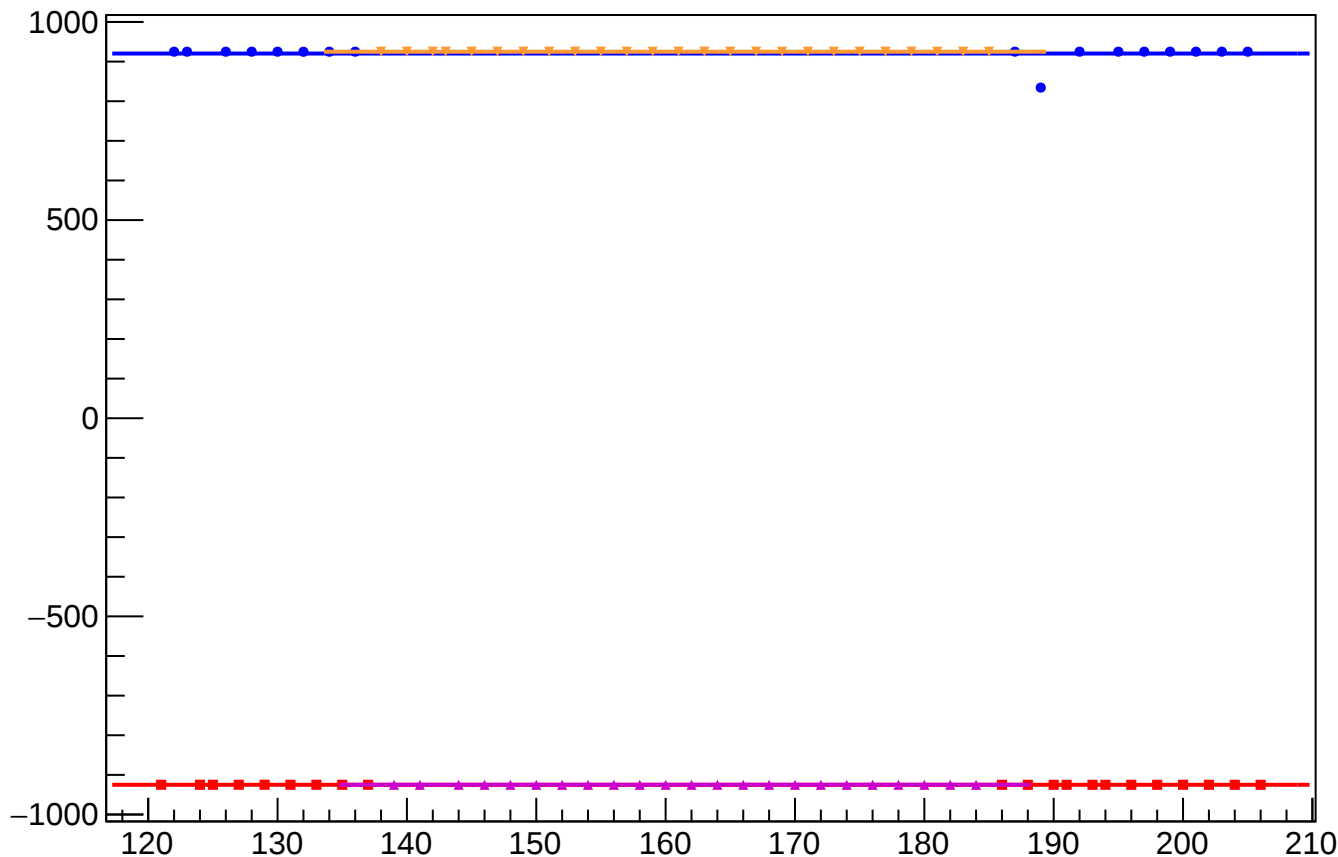
Out: 0.002+/-0.000

χ^2/NDF : 251669266571194157

All: -0.000+/-0.000

χ^2/NDF : 5140648860350

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 920.331+/-0.000

χ^2/NDF : 397527033172369389753433260203966464.0/16

Left Out: 924.983+/-0.000

χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -924.997+/-0.000

χ^2/NDF : 861698478877562130081169539072.0/20

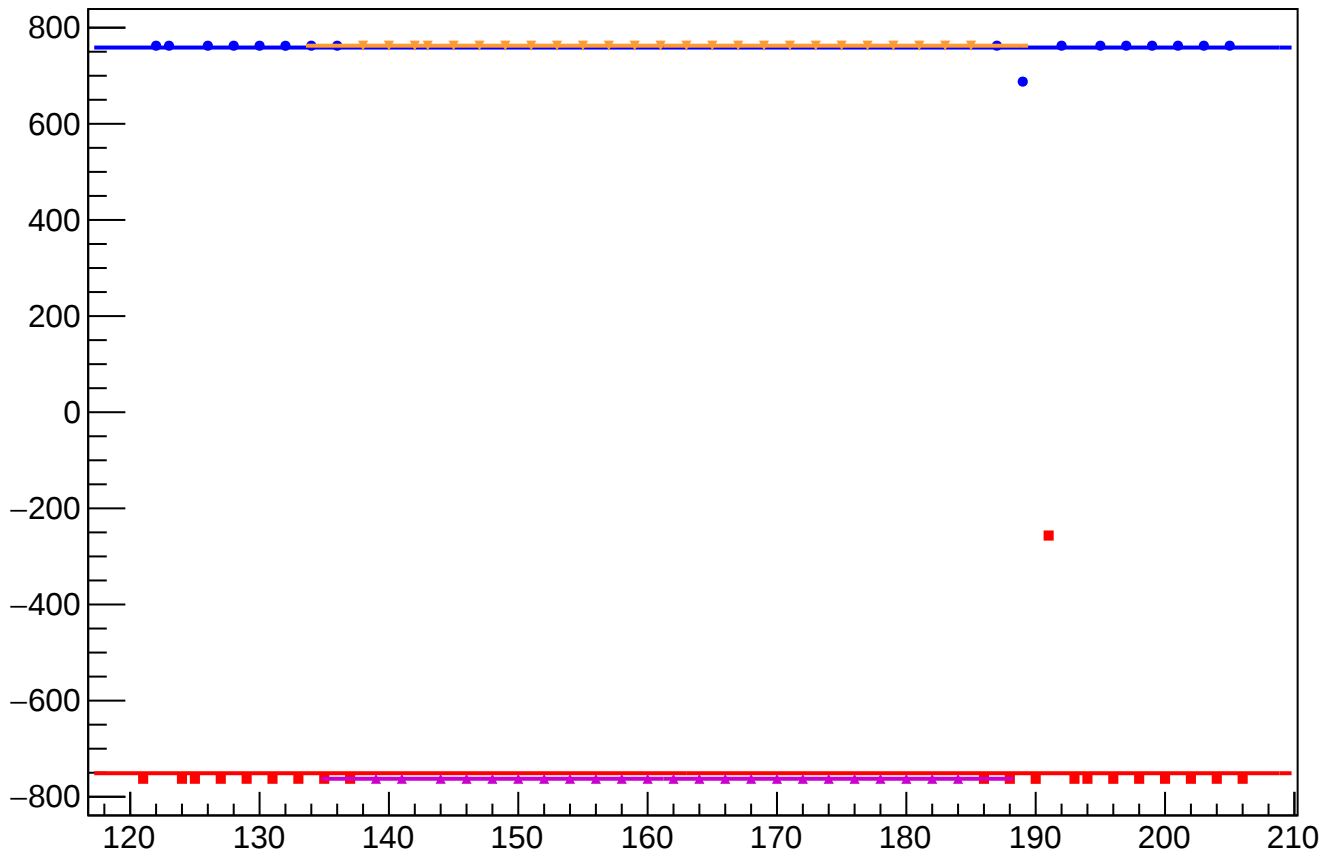
Left In: -924.983+/-0.000

χ^2/NDF : 888539224321534960792212865024.0/22

All: -9.159+/-0.000

χ^2/NDF : 5004331613353

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 758.673+/-0.000

χ^2/NDF : 269953737334408128770343029037858816.0/16

Left Out: 762.518+/-0.000

χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -751.036+/-0.000

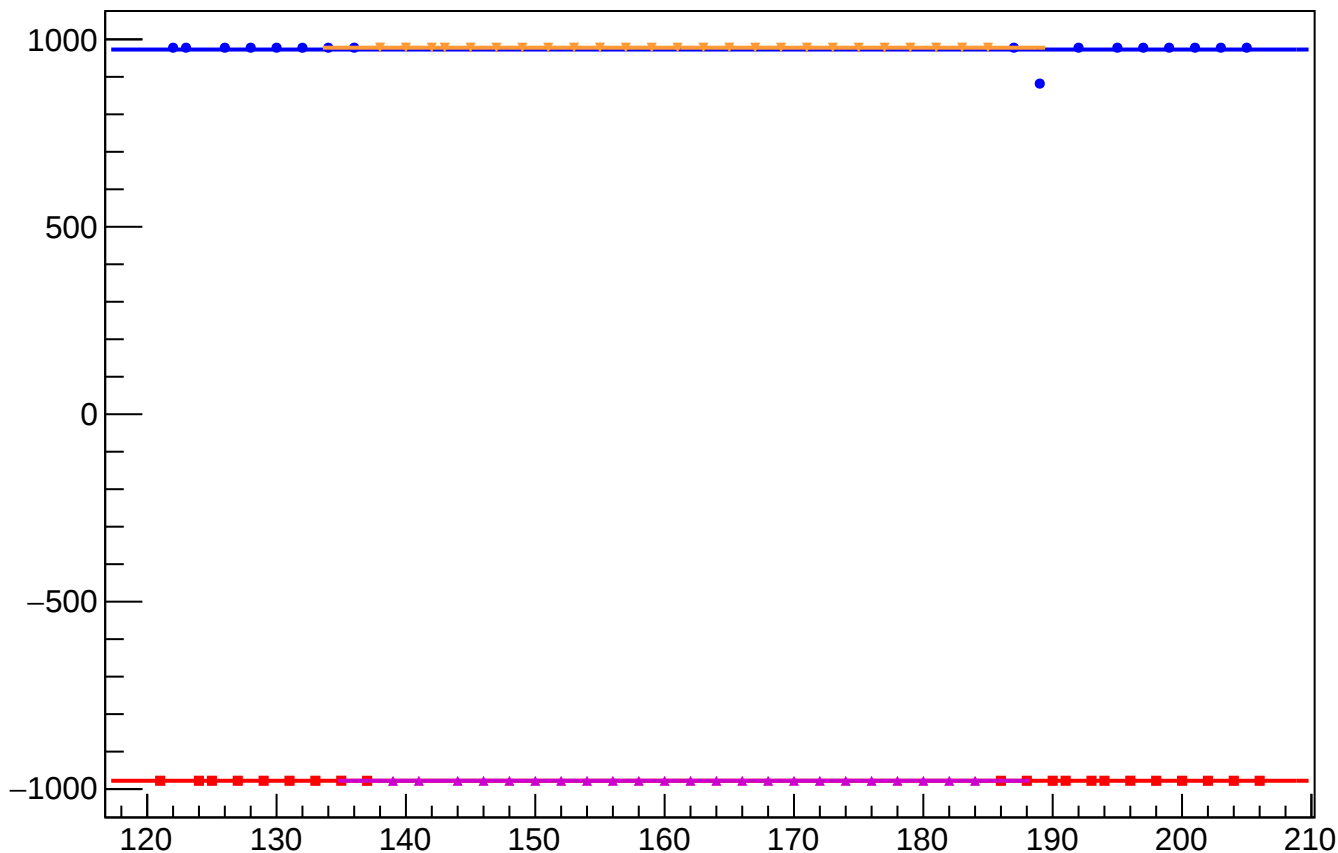
χ^2/NDF : 6505116593699807576131000056909135872.0/20

Left In: -762.519+/-0.000

χ^2/NDF : 629058355419214408155297480704.0/22

All: -5.306+/-0.000 χ^2/NDF : 3387527753423

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 972.836+/-0.000 χ^2/NDF : 444375308328553964050773070172913664.0/16

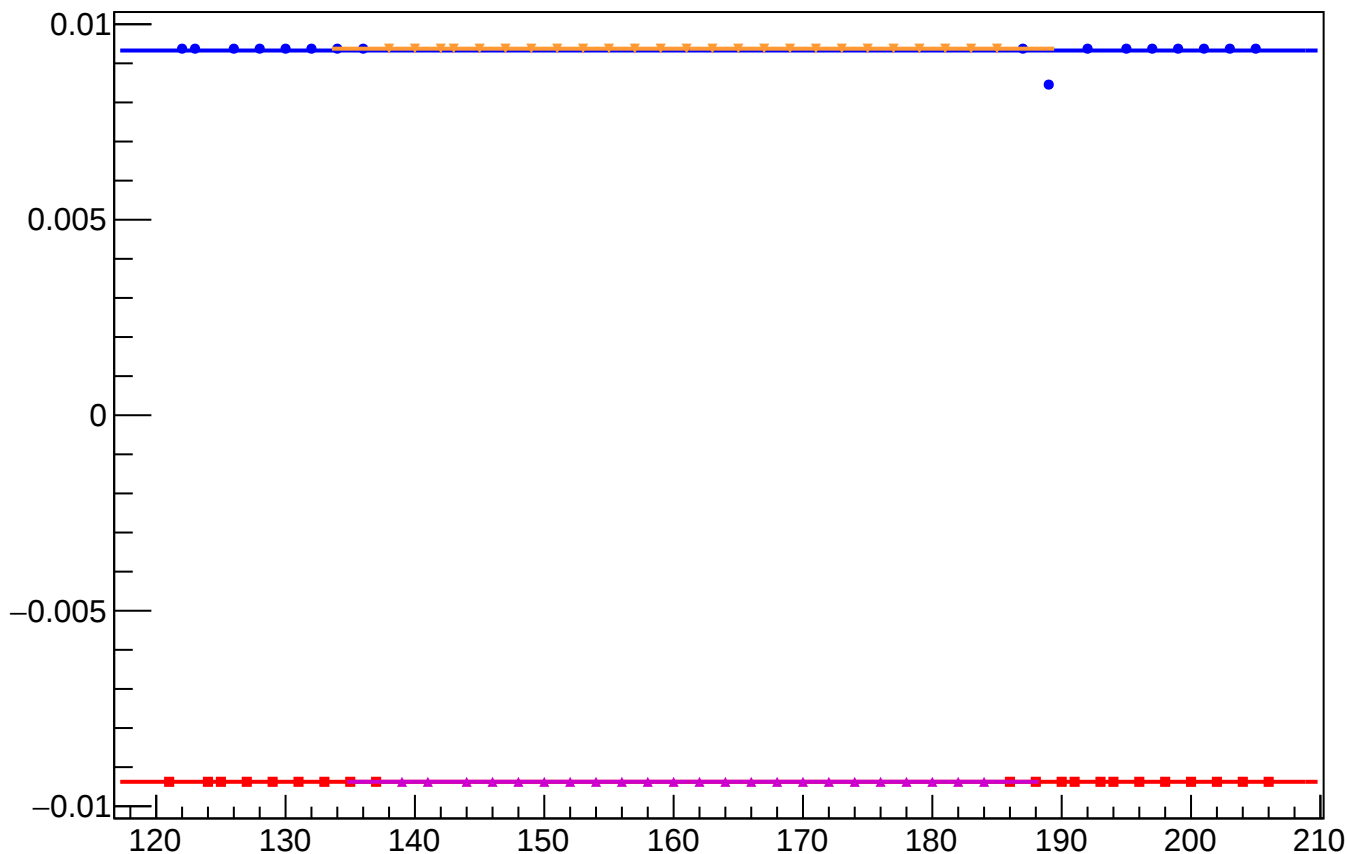
Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24

Right Out: -977.755+/-0.000 χ^2/NDF : 1825510370172774799142811598848.0/20

Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22

All: -9.678+/-0.000 χ^2/NDF : 5591462773158

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40870884796515739232108544.0/16

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1860610427062981

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.003+/-0.000

χ^2/NDF : 224378794761094399

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/20

Out: 0.002+/-0.000

χ^2/NDF : 251669266571194157

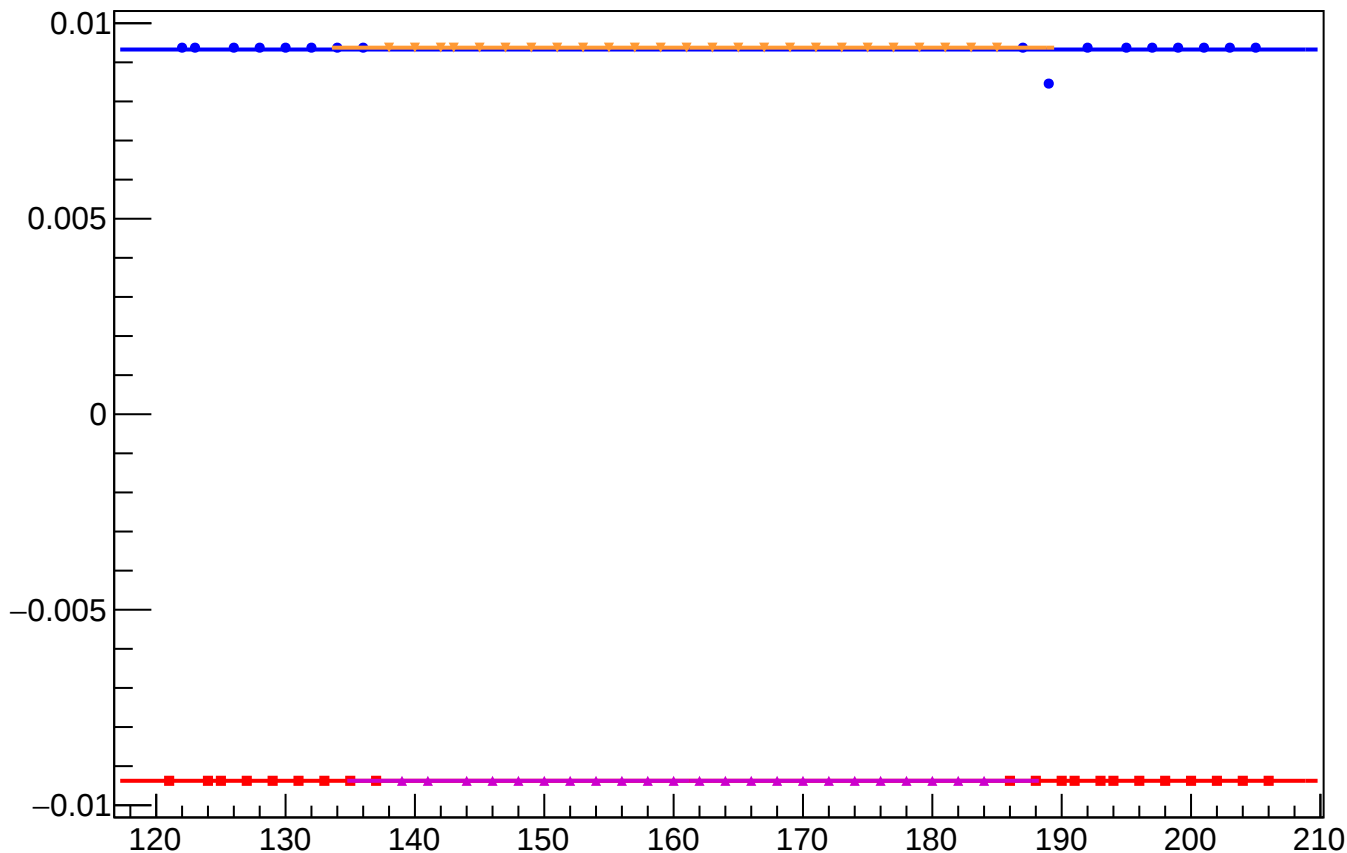
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: -0.000+/-0.000

χ^2/NDF : 5140648860350

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40870884796515739232108544.0/16

Left: 0.000+/-0.000 χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000 χ^2/NDF : 1860610427062981

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.003+/-0.000 χ^2/NDF : 224378794761094399

Out: 0.002+/-0.000 χ^2/NDF : 251669266571194157

Right Out: -0.009+/-0.000

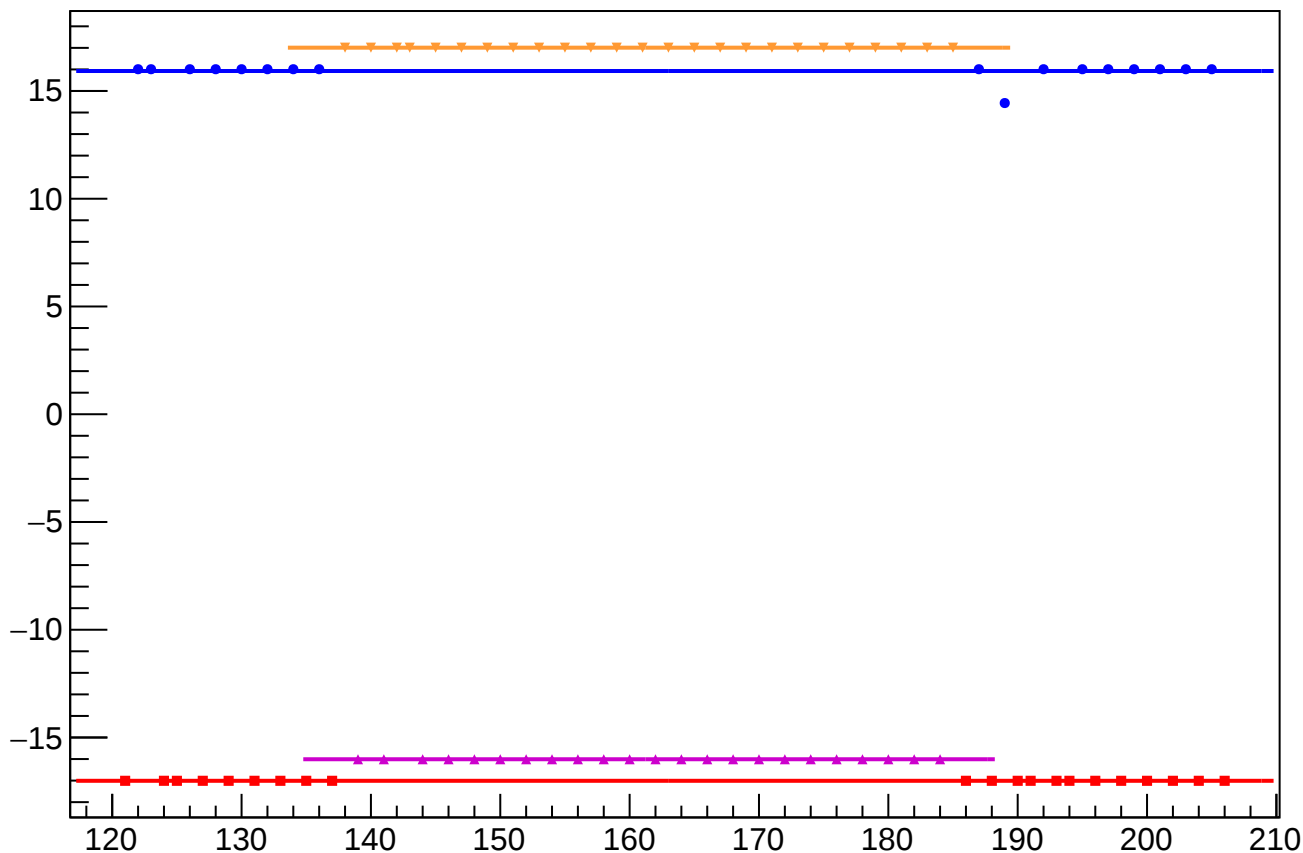
χ^2/NDF : 0.1/20

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

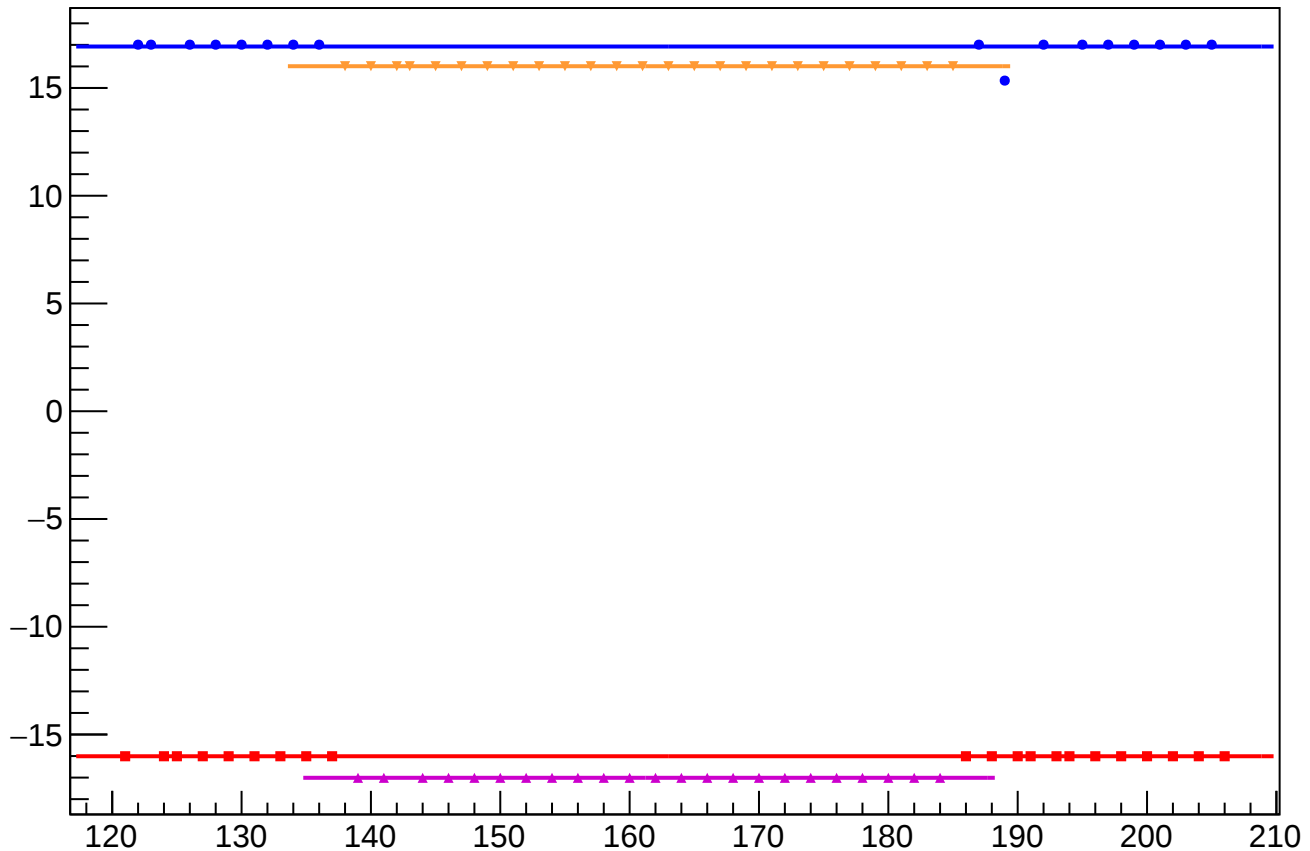
All: -0.000+/-0.000 χ^2/NDF : 5140648860350

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



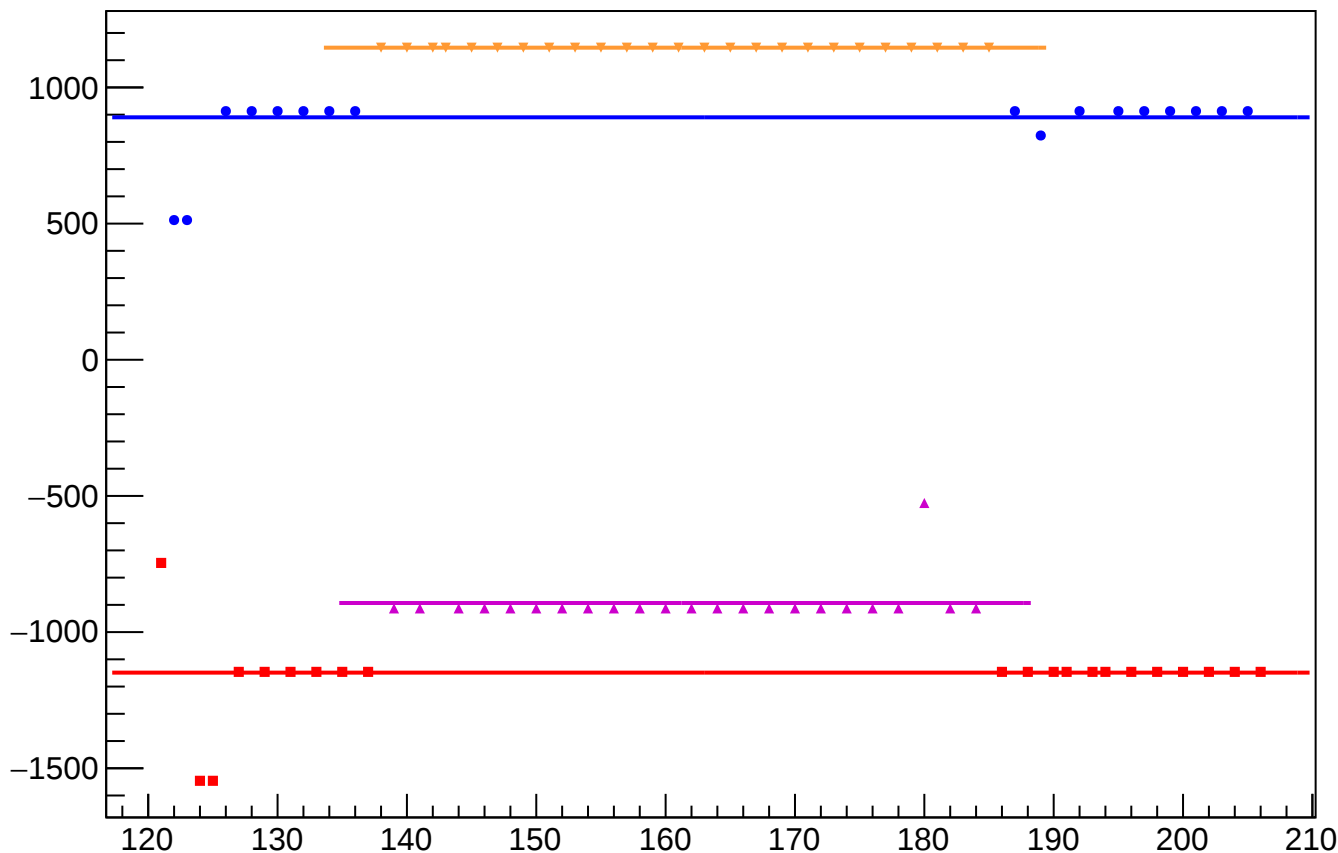
Right In: 15.927 $\pm$ 0.000 χ^2 /NDF: 119010615065831237536789190148096.0/16
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 15312521325834853117067264.0/20
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: -0.100 $\pm$ 0.000 χ^2 /NDF: 1516874426279

IGL1I00OD16_16_mean vs Slug, Sign Corrected



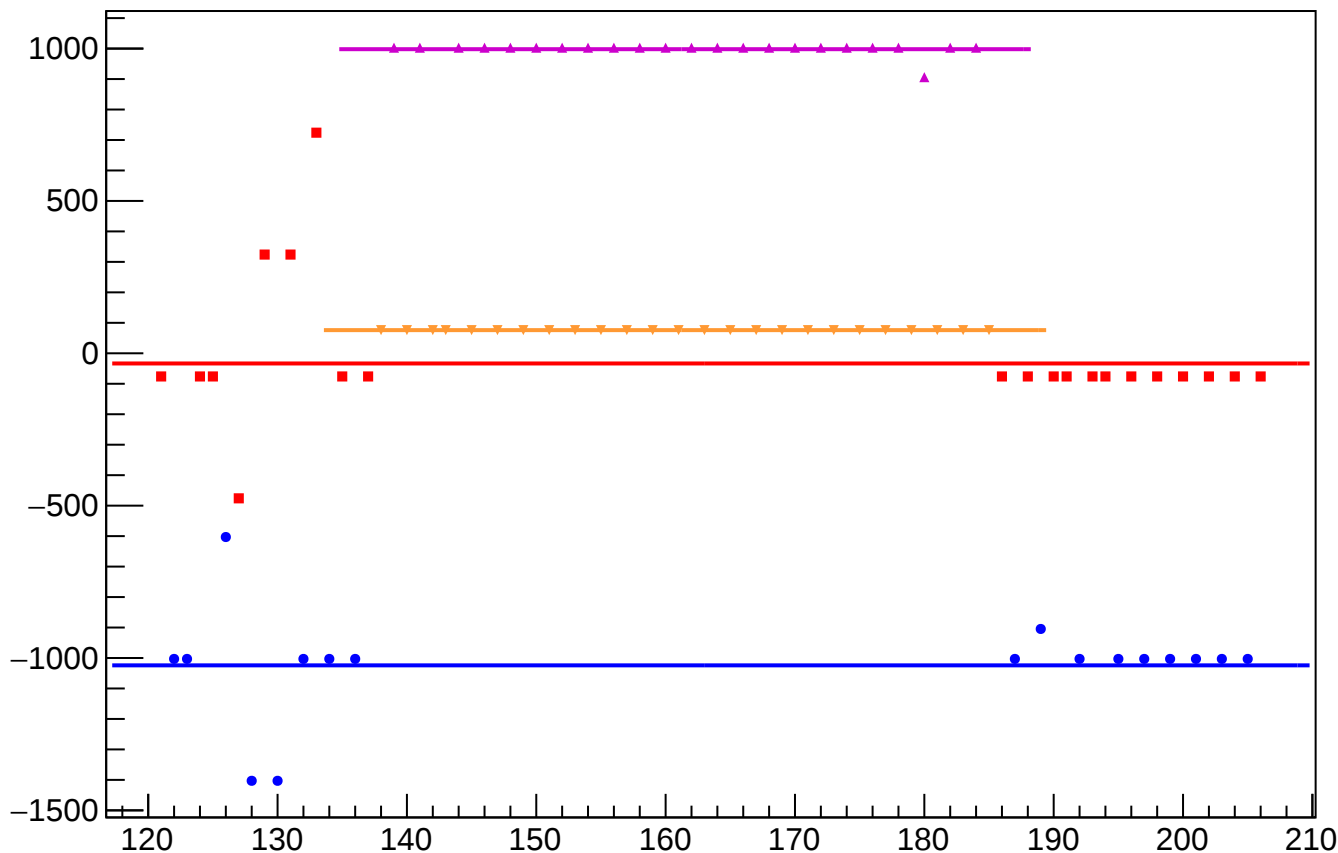
Right In: 16.924+/-0.000	χ^2/NDF : 134538465913163352029190221201408.0/16	Left: 0.042+/-0.000	χ^2/NDF : 994312337700629058
Left Out: 16.009+/-0.000	χ^2/NDF : 89740.8/24	Right: -0.714+/-0.000	χ^2/NDF : 5769172999579599
Right Out: -16.009+/-0.000	χ^2/NDF : 262482.4/20	In: -4.796+/-0.000	χ^2/NDF : 732006800135523149
Left In: -17.009+/-0.000	χ^2/NDF : 115033472633445654986752.0/22	Out: 3.914+/-0.000	χ^2/NDF : 730415507485541130
		All: -0.237+/-0.000	χ^2/NDF : 1572000335579

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 890.270+/-0.000 χ^2/NDF : 7095905999441653003782205638275235840.0/16
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1148.804+/-0.000 χ^2/NDF : 13751725725163020707524462697917710336.0/20
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 23.913+/-0.000 χ^2/NDF : 6281903330346

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1024.122+/-0.000 χ^2/NDF : 23249302329105149359209778739723370496.0/16
 Left Out: 76.011+/-0.000 χ^2/NDF : 11003263624957134120836661248.0/24
 Right Out: -33.391+/-0.000 χ^2/NDF : 44959920210462147520212989259089444864.0/20
 Left In: 998.020+/-0.000 χ^2/NDF : 826231736084035689068445378231140352.0/22
 All: 153.168+/-0.000 χ^2/NDF : 278921443215