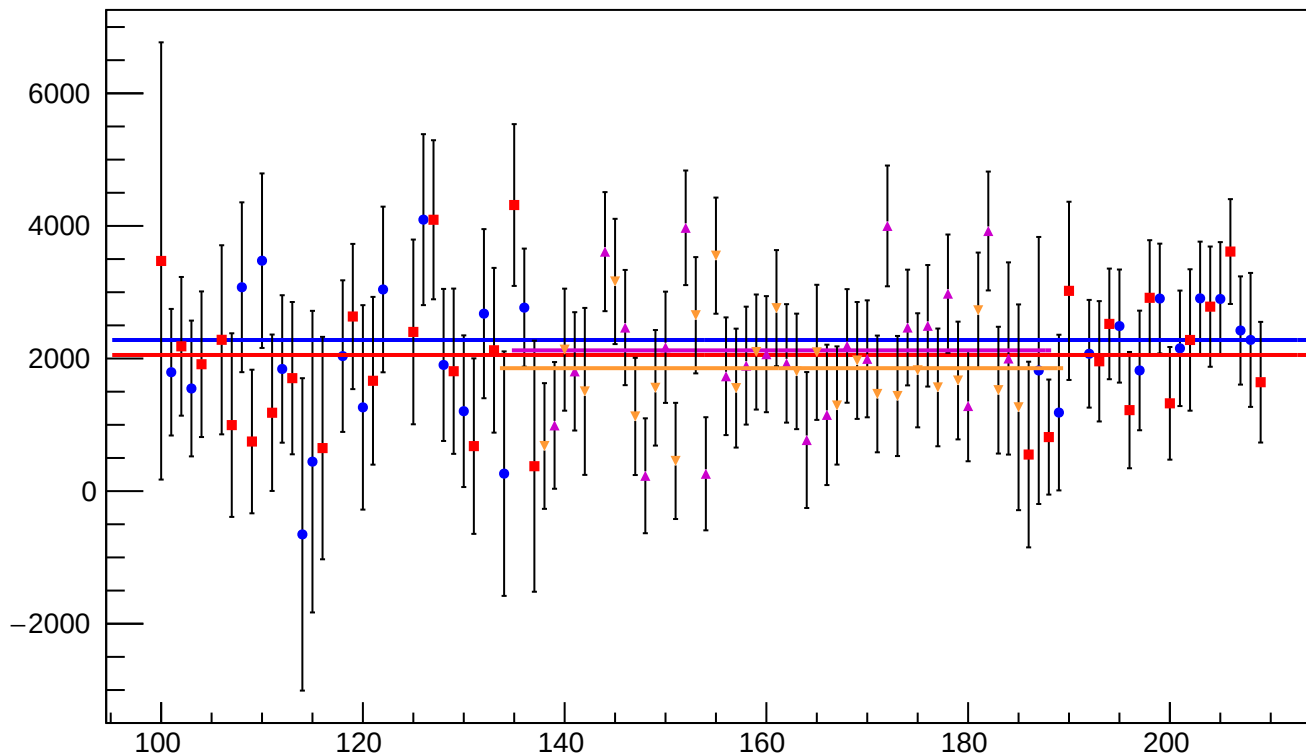


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2279.466+/-205.770

Left Out: 1854.267+/-187.405

Right Out: 2053.502+/-200.125

Left In: 2123.138+/-188.684

χ^2/NDF : 12.7/26

χ^2/NDF : 15.1/23

χ^2/NDF : 23.7/29

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2163.343+/-143.464

In: 2194.544+/-139.068

Out: 1947.352+/-136.792

All: 2068.908+/-97.521

χ^2/NDF : 48.1/46

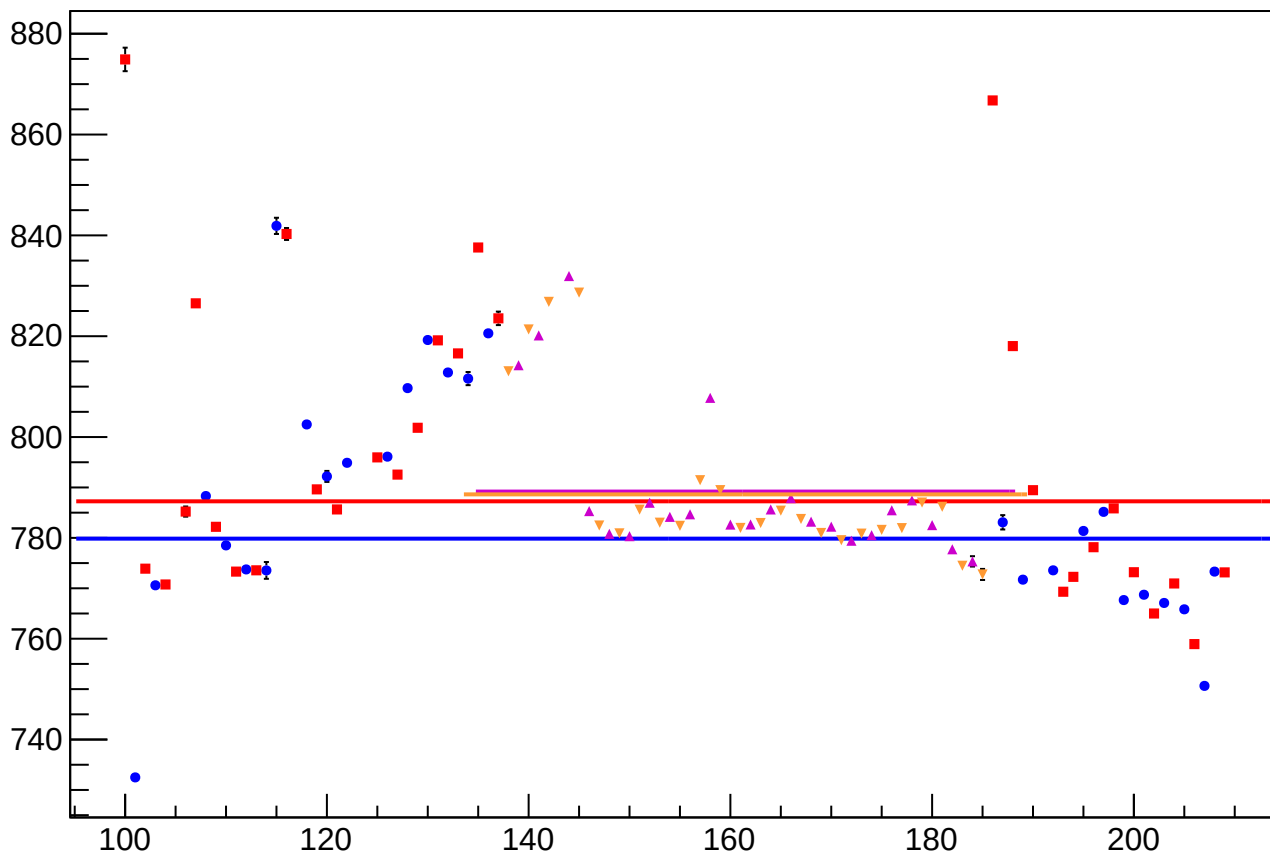
χ^2/NDF : 37.1/56

χ^2/NDF : 45.1/49

χ^2/NDF : 39.4/53

χ^2/NDF : 86.0/103

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 779.848 $\pm$ 0.146 χ^2 /NDF: 22774.2/26

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

Right Out: 787.252 $\pm$ 0.142 χ^2 /NDF: 28960.2/29

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

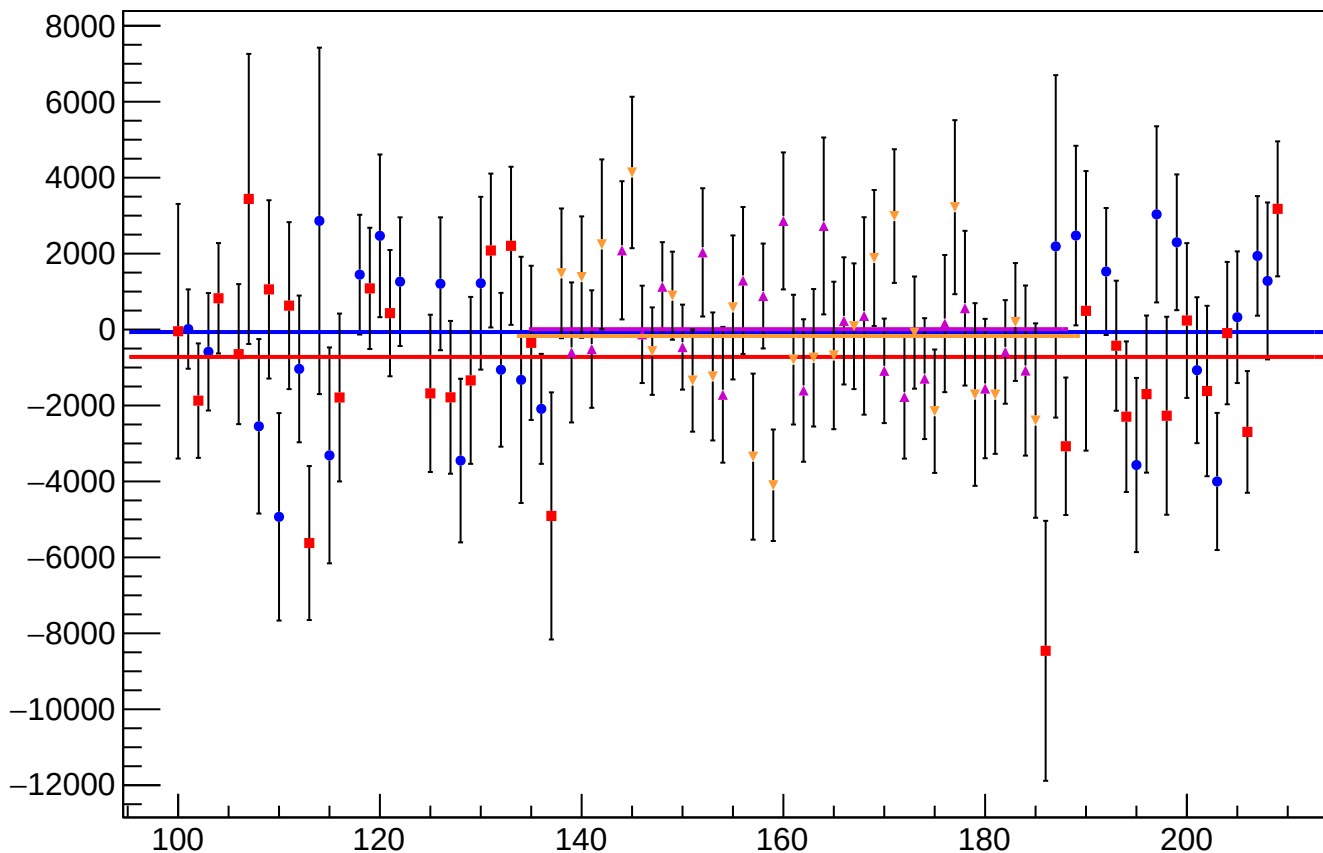
Right: 783.653 $\pm$ 0.101 χ^2 /NDF: 53065.1/56

In: 784.920 $\pm$ 0.098 χ^2 /NDF:36354.4/49

Out: 787.986 $\pm$ 0.097 χ^2 /NDF:40488.8/53

All: 786.478 $\pm$ 0.069 χ^2 /NDF: 77337.2/103

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -65.369 ± 366.666 χ^2/NDF : 30.3/26

Left Out: -169.172 ± 340.391 χ^2/NDF : 30.0/23

Right Out: -721.165 ± 369.514 χ^2/NDF : 32.8/29

Left In: 10.093 ± 337.810 χ^2/NDF : 14.2/22

Left: -78.858 ± 239.775 χ^2/NDF : 44.4/46

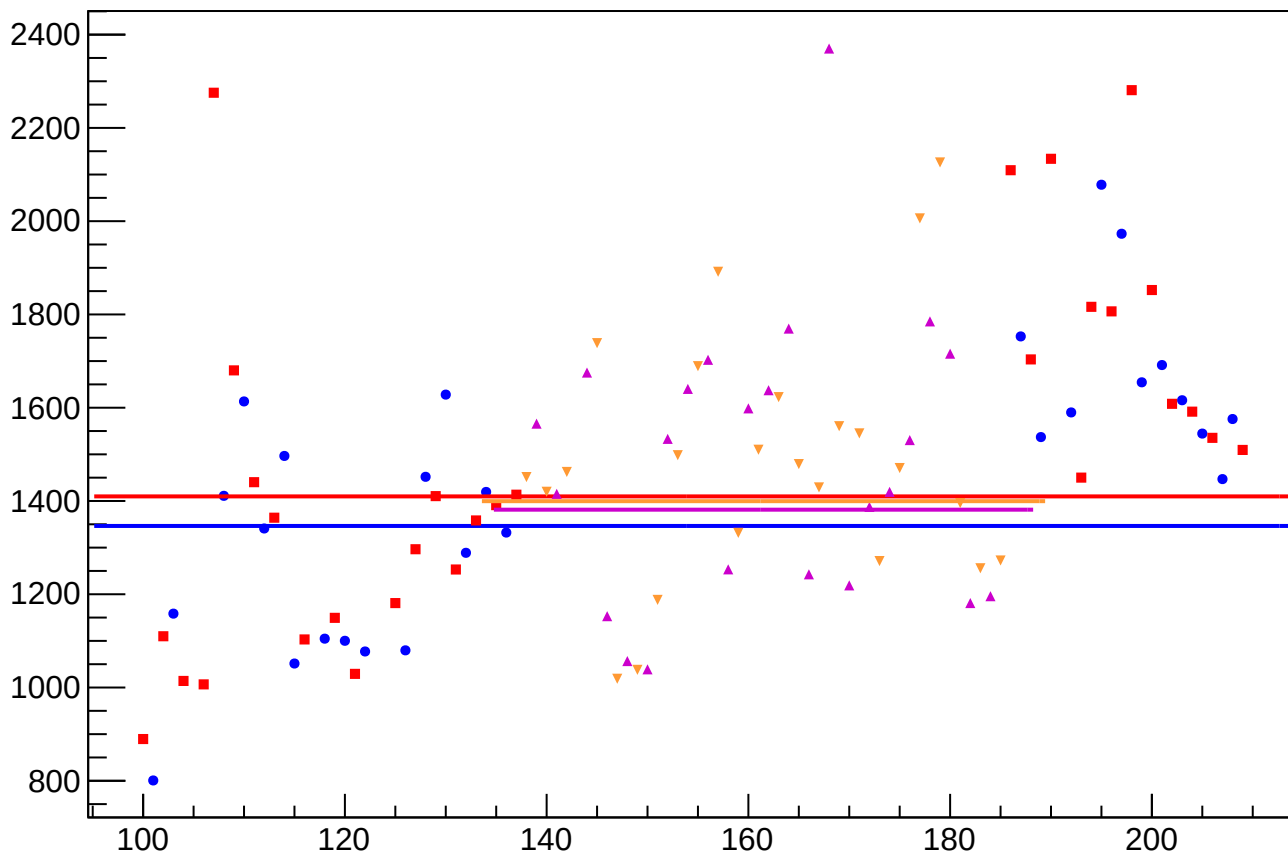
Right: -390.730 ± 260.273 χ^2/NDF : 64.8/56

In: -24.552 ± 248.444 χ^2/NDF : 44.5/49

Out: -422.561 ± 250.356 χ^2/NDF : 64.1/53

All: -222.031 ± 176.349 χ^2/NDF : 109.9/103

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1346.459 $\pm$ 0.259 χ^2 /NDF: 1476298.7/26

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

Right Out: 1409.831 $\pm$ 0.261 χ^2 /NDF: 1485283.1/29

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

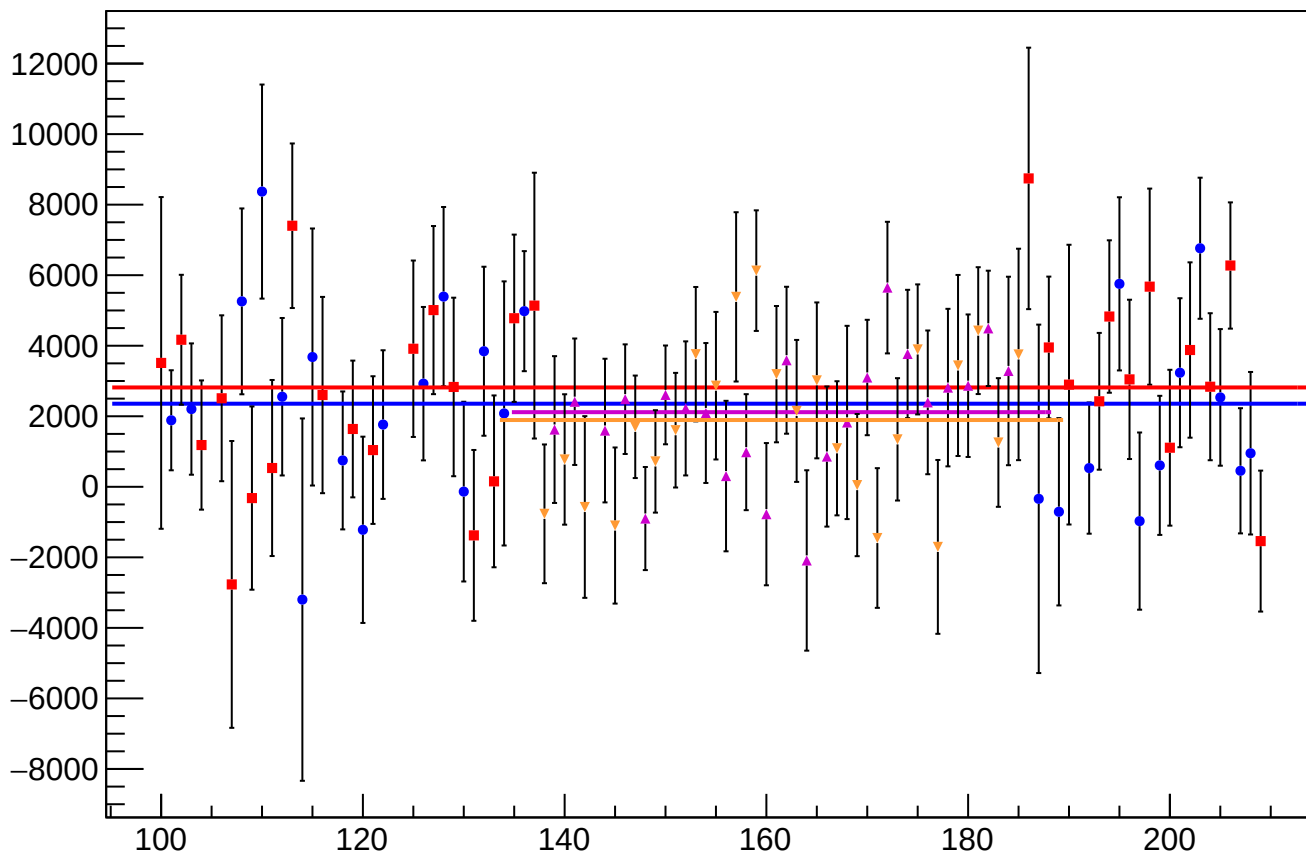
Right: 1377.900 $\pm$ 0.184 χ^2 /NDF: 2991222.5/56

In: 1365.336 $\pm$ 0.176 χ^2 /NDF:2762587.4/49

Out: 1404.289 $\pm$ 0.177 χ^2 /NDF:2605239.8/53

All: 1384.663 $\pm$ 0.125 χ^2 /NDF: 5392222.0/100

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2356.188 $\pm$ 430.628 χ^2 /NDF: 28.0/26

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

Right Out: 2816.941 $\pm$ 429.405 χ^2 /NDF: 30.9/29

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

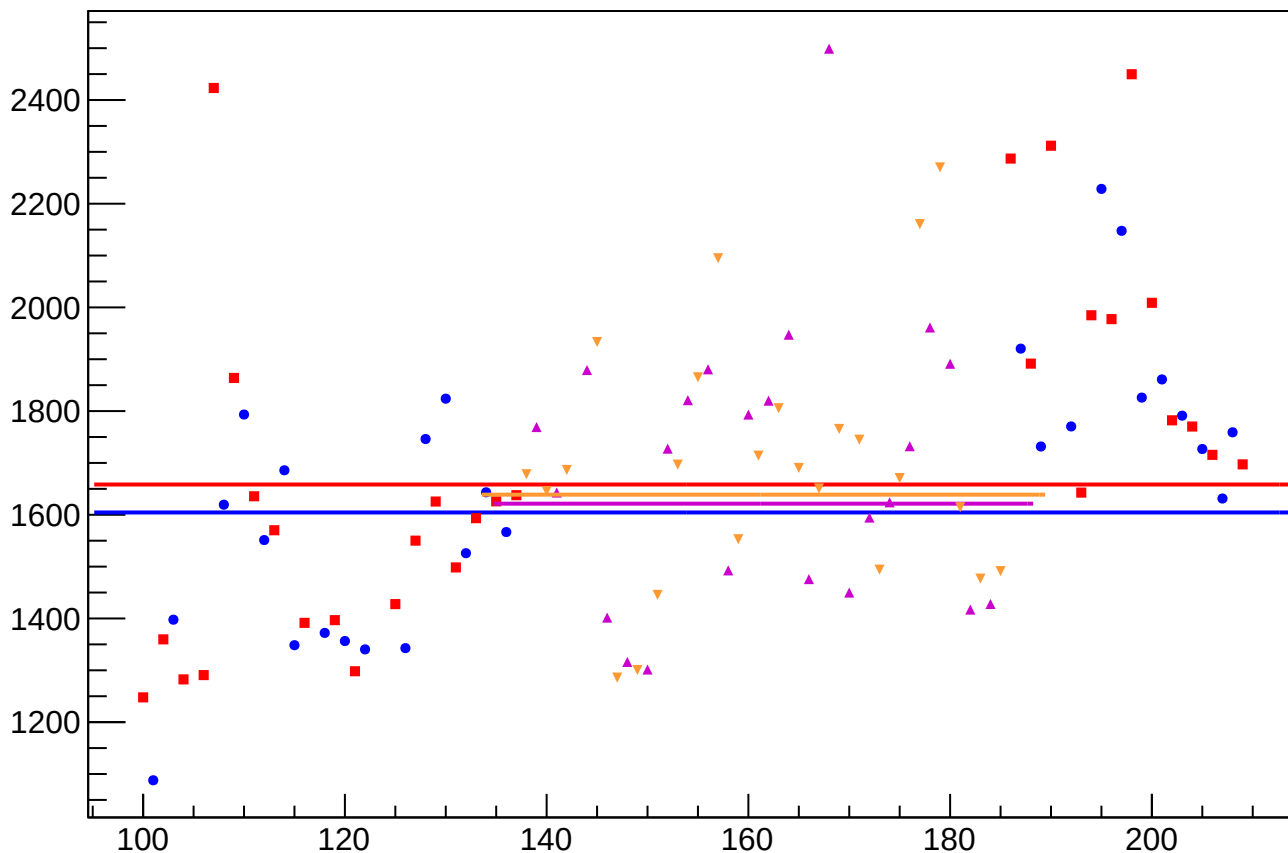
Right: 2587.220 $\pm$ 304.067 χ^2 /NDF: 59.5/56

In: 2225.205 $\pm$ 290.285 χ^2 /NDF:46.9/49

Out: 2316.590 $\pm$ 290.661 χ^2 /NDF:59.4/53

All: 2270.838 $\pm$ 205.395 χ^2 /NDF: 106.3/103

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1604.446 $\pm$ 0.305 χ^2 /NDF: 781005.4/26

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

Right Out: 1658.357 $\pm$ 0.304 χ^2 /NDF: 883564.5/29

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

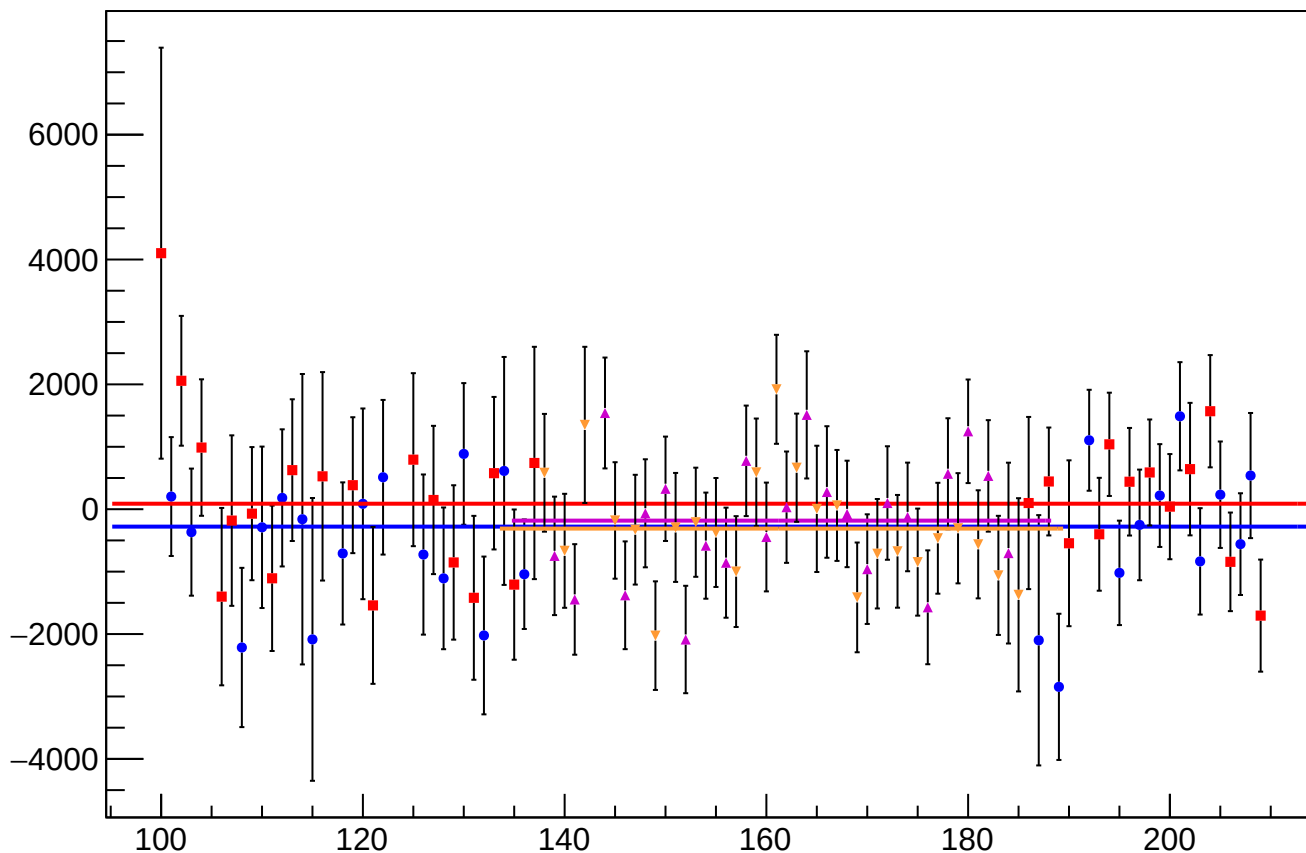
Right: 1631.478 $\pm$ 0.215 χ^2 /NDF: 1680287.5/56

In: 1613.705 $\pm$ 0.205 χ^2 /NDF: 1558010.2/49

Out: 1647.764 $\pm$ 0.206 χ^2 /NDF: 1557717.5/53

All: 1630.713 $\pm$ 0.145 χ^2 /NDF: 3129476.1/100

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -278.967 ± 204.144 χ^2/NDF : 24.0/26

Left Out: -310.563 ± 186.538 χ^2/NDF : 20.0/23

Right Out: 88.055 ± 198.208 χ^2/NDF : 24.5/29

Left In: -182.895 ± 187.817 χ^2/NDF : 26.1/22

Left: -247.165 ± 132.352 χ^2/NDF : 46.4/46

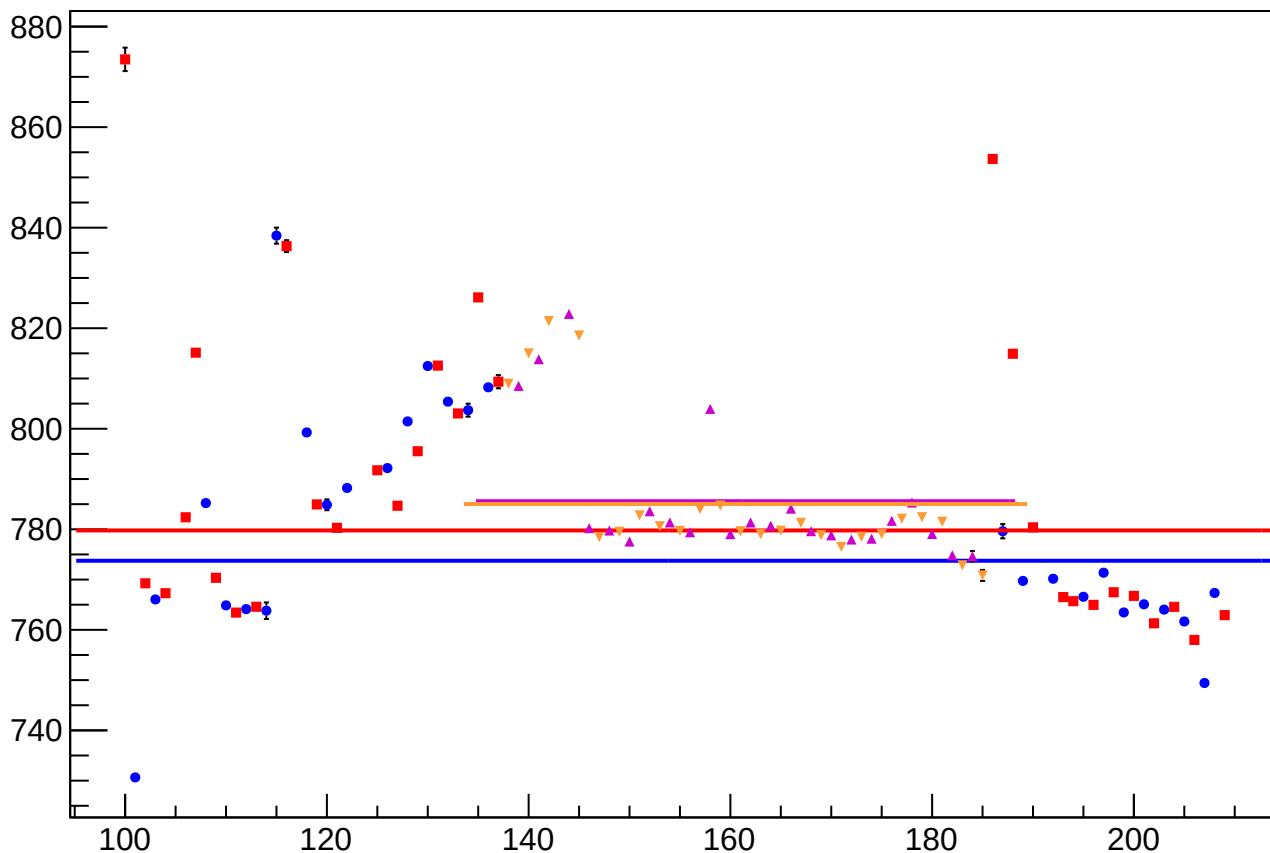
Right: -90.043 ± 142.207 χ^2/NDF : 50.2/56

In: -226.936 ± 138.219 χ^2/NDF : 50.3/49

Out: -123.334 ± 135.841 χ^2/NDF : 46.7/53

All: -174.236 ± 96.884 χ^2/NDF : 97.3/103

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 773.743+/-0.144 χ^2/NDF : 19771.6/26

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

Right Out: 779.770+/-0.140 χ^2/NDF : 27586.8/29

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

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

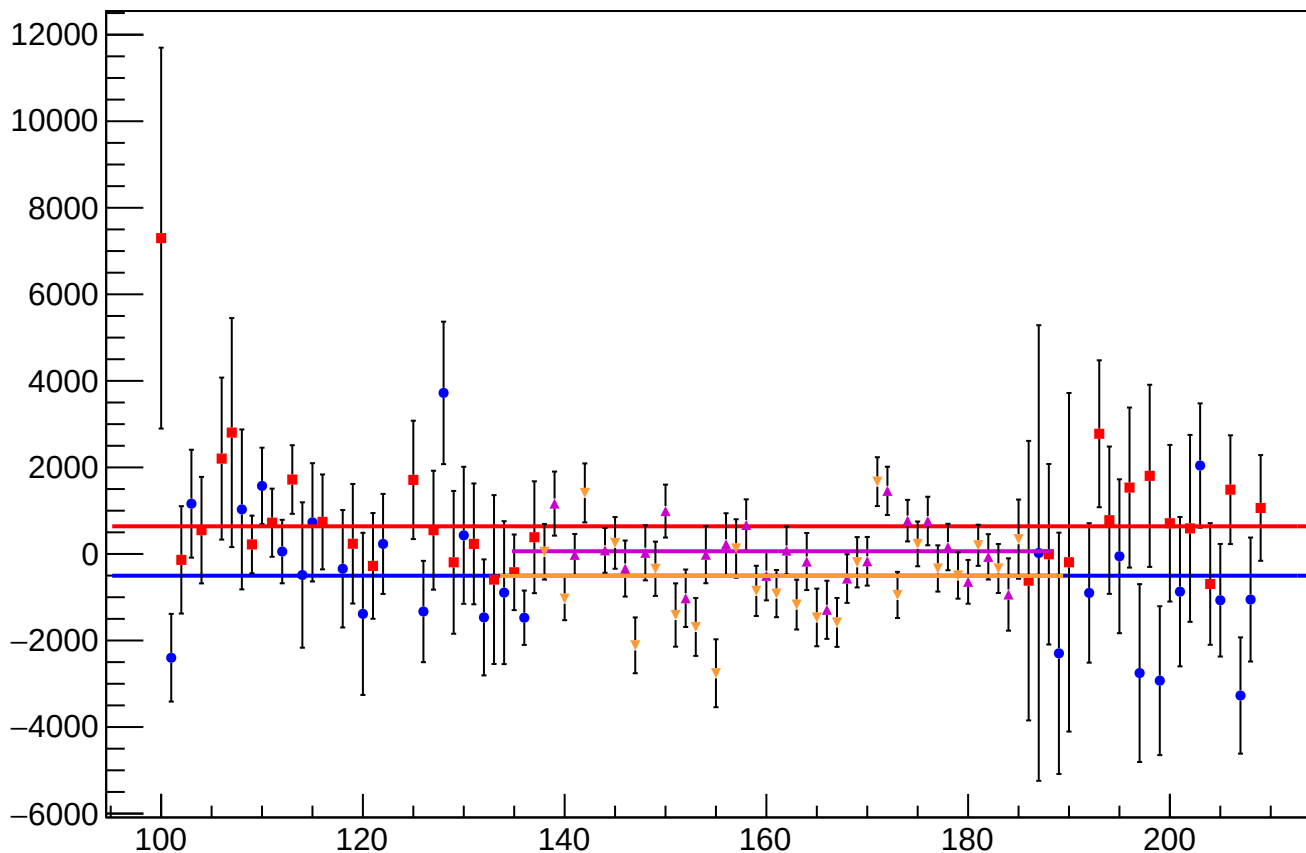
Right: 776.845+/-0.101 χ^2/NDF : 48255.6/56

In: 780.160+/-0.098 χ^2/NDF : 32794.3/49

Out: 782.560+/-0.096 χ^2/NDF : 37701.9/53

All: 781.381+/-0.069 χ^2/NDF : 70802.7/103

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -502.516 $\pm$ 247.217 χ^2/NDF : 35.4/26

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

Right Out: 639.076 $\pm$ 240.307 χ^2/NDF : 13.8/29

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

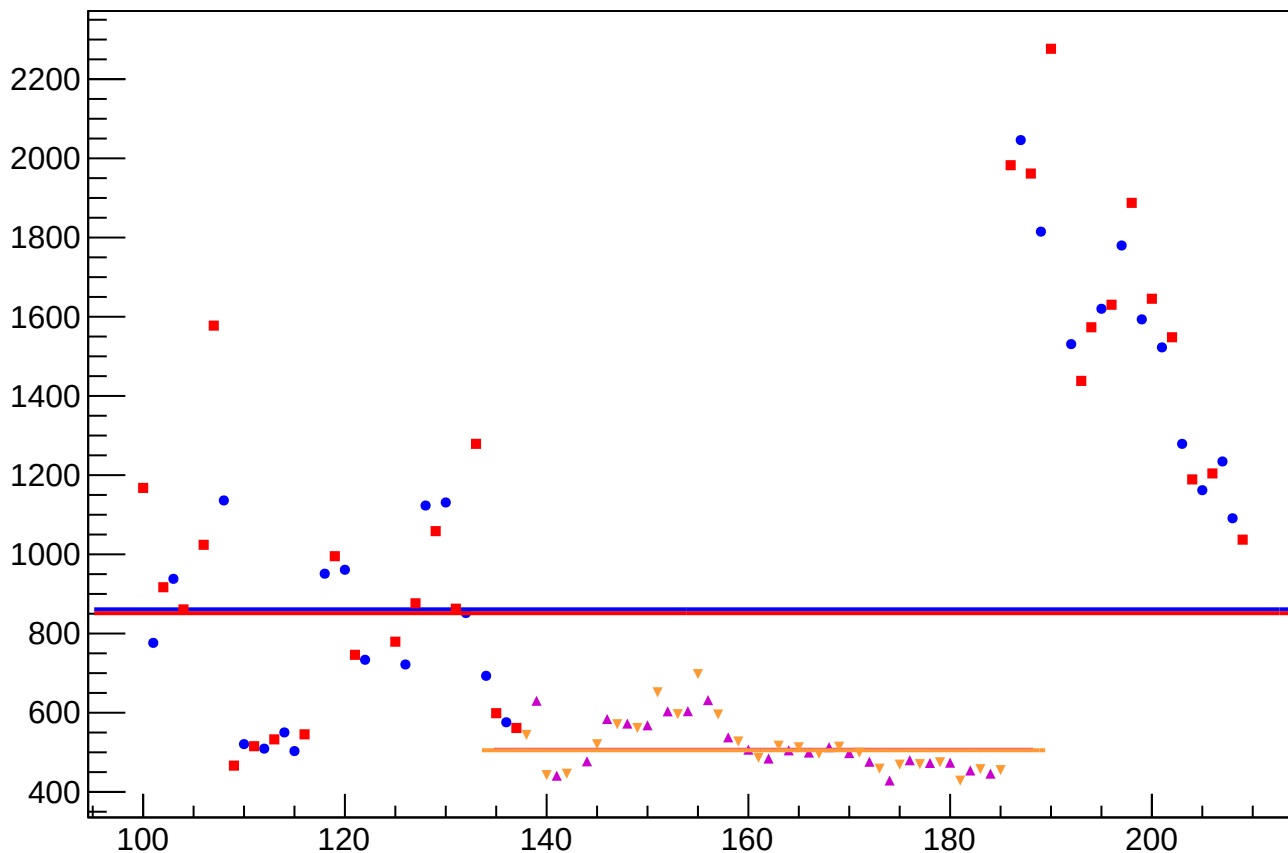
Right: 84.457 $\pm$ 172.314 χ^2/NDF : 60.1/56

In: -48.005 $\pm$ 109.436 χ^2/NDF : 68.4/49

Out: -276.460 $\pm$ 108.208 χ^2/NDF : 92.5/53

All: -163.521 $\pm$ 76.945 χ^2/NDF : 163.1/103

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 861.148 $\pm$ 0.175 χ^2/NDF : 4220302.6/26

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

Right Out: 851.358 $\pm$ 0.170 χ^2/NDF : 5560242.1/29

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

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

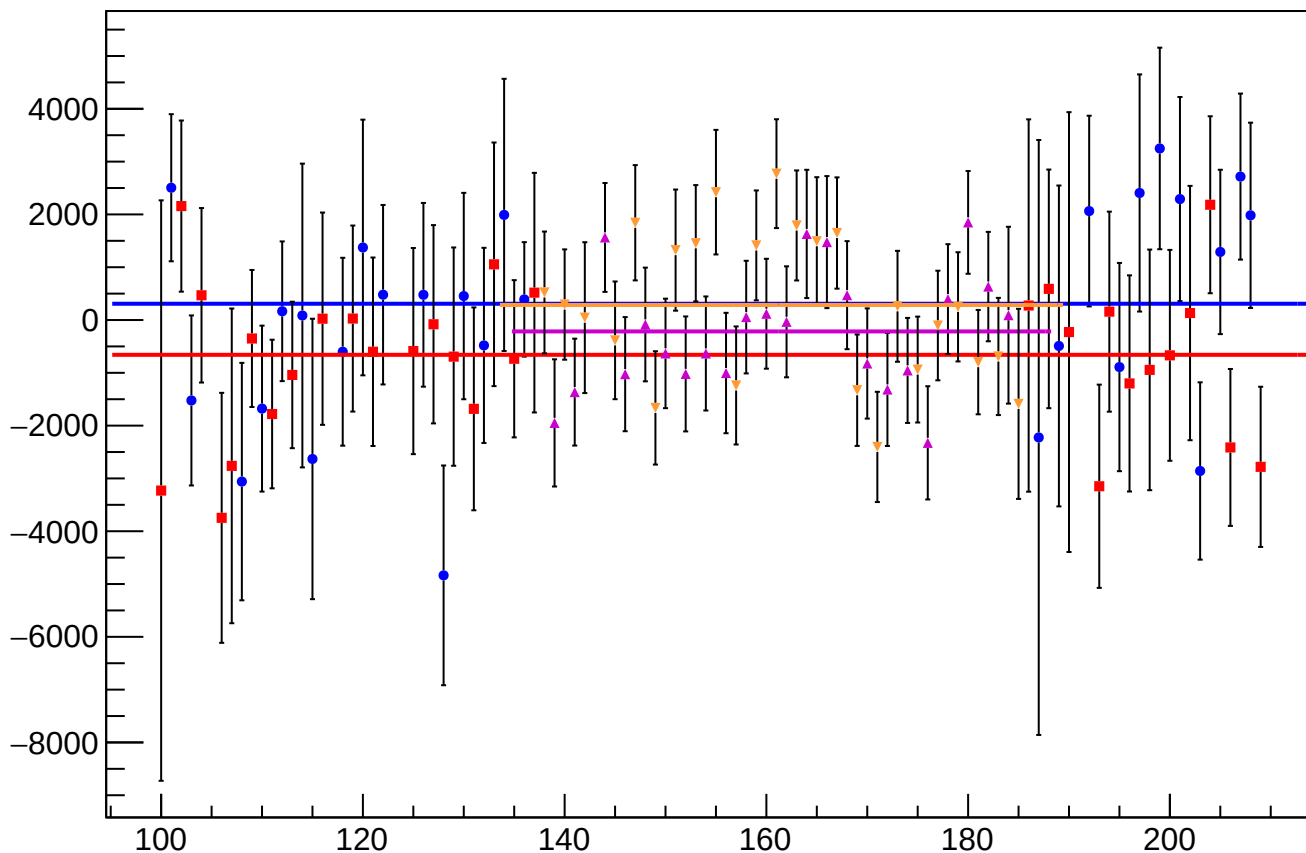
Right: 856.114 $\pm$ 0.122 χ^2/NDF : 9782157.4/56

In: 575.900 $\pm$ 0.077 χ^2/NDF : 7968212.2/49

Out: 575.404 $\pm$ 0.077 χ^2/NDF : 9353961.5/53

All: 575.649 $\pm$ 0.054 χ^2/NDF : 17322194.5/100

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 308.281+/-348.590 χ^2/NDF : 29.2/26

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

Right Out: -658.942+/-344.246 χ^2/NDF : 16.8/29

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

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

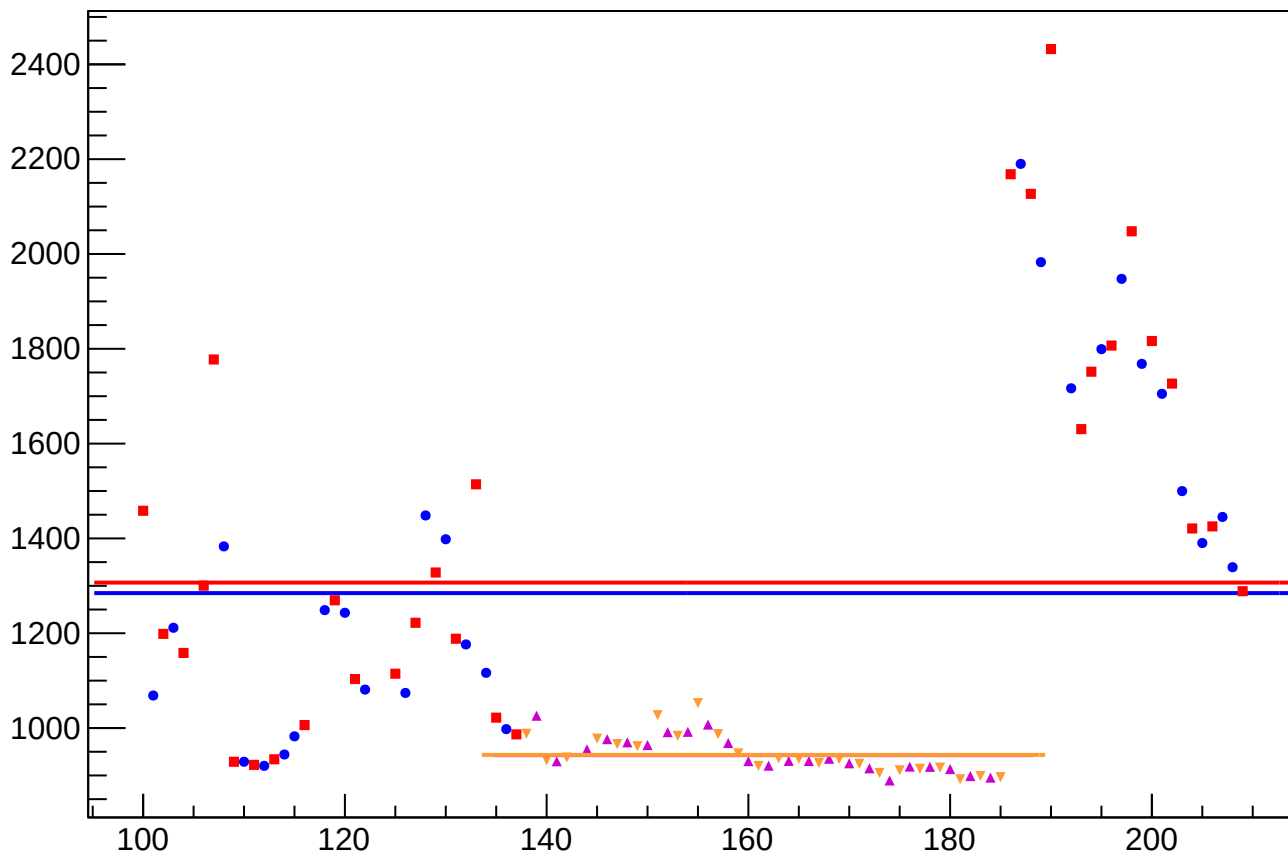
Right: -181.394+/-244.940 χ^2/NDF : 49.9/56

In: -61.318+/-189.397 χ^2/NDF : 55.2/49

Out: 3.652+/-187.974 χ^2/NDF : 60.3/53

All: -28.588+/-133.418 χ^2/NDF : 115.6/103

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1284.656+/-0.246 χ^2/NDF : 1468326.9/26

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

Right Out: 1306.844+/-0.243 χ^2/NDF : 2011820.4/29

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

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

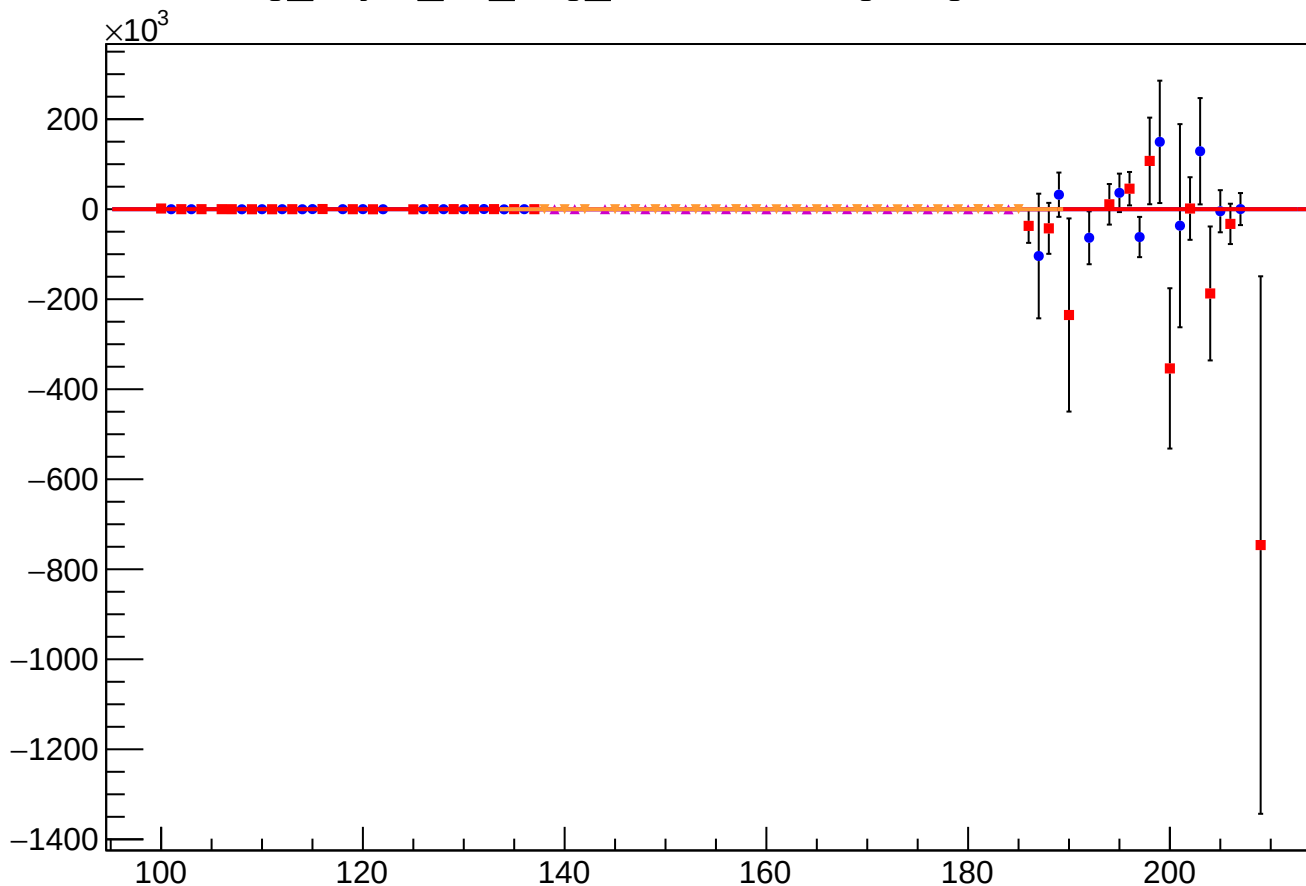
Right: 1295.889+/-0.173 χ^2/NDF : 3484249.3/56

In: 1043.805+/-0.134 χ^2/NDF : 2871395.4/49

Out: 1051.731+/-0.133 χ^2/NDF : 3637202.1/53

All: 1047.798+/-0.094 χ^2/NDF : 6510362.2/10

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.557 ± 30.032 $\chi^2/\text{NDF}: 23.2/25$

Left Out: 3.710 ± 21.467 $\chi^2/\text{NDF}: 22.4/23$

Right Out: 31.724 ± 30.492 $\chi^2/\text{NDF}: 30.0/28$

Left In: -22.931 ± 21.584 $\chi^2/\text{NDF}: 22.5/22$

Left: -9.538 ± 15.221 $\chi^2/\text{NDF}: 45.7/46$

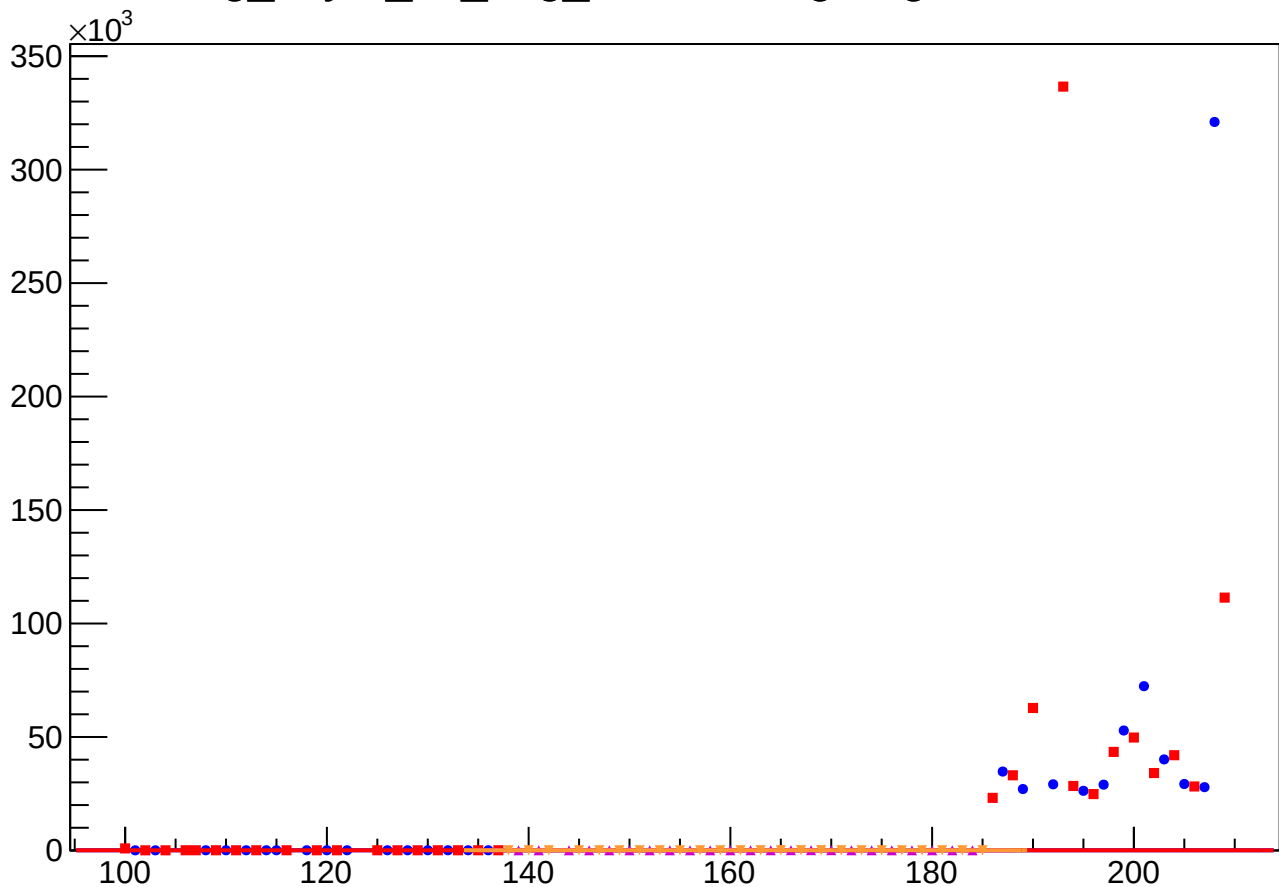
Right: 7.725 ± 21.397 $\chi^2/\text{NDF}: 54.4/54$

In: -20.420 ± 17.527 $\chi^2/\text{NDF}: 45.7/48$

Out: 12.994 ± 17.553 $\chi^2/\text{NDF}: 53.0/52$

All: -3.738 ± 12.403 $\chi^2/\text{NDF}: 100.5/101$

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.139 $\pm$ 0.021 χ^2 /NDF: 6229053.6/26

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

Right Out: 79.456 $\pm$ 0.022 χ^2 /NDF: 5969306.8/29

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

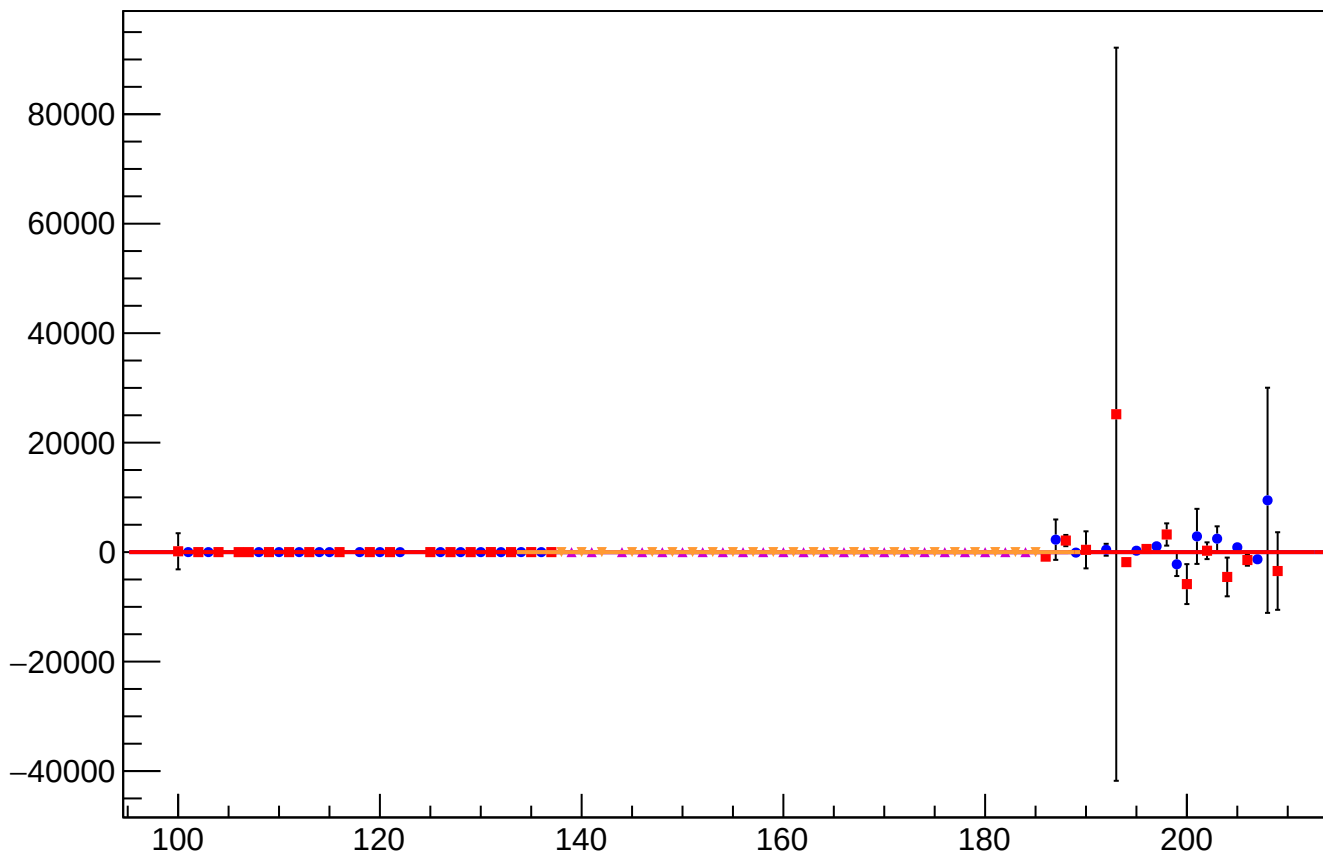
Right: 77.772 $\pm$ 0.015 χ^2 /NDF: 12210375.6/56

In: 85.012 $\pm$ 0.012 χ^2 /NDF: 7002351.7/49

Out: 86.300 $\pm$ 0.012 χ^2 /NDF: 6586293.1/53

All: 85.655 $\pm$ 0.009 χ^2 /NDF: 13594034.8/103

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 31.1/26

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

Right Out: 0.038 ± 0.525 χ^2/NDF : 29.2/29

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

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

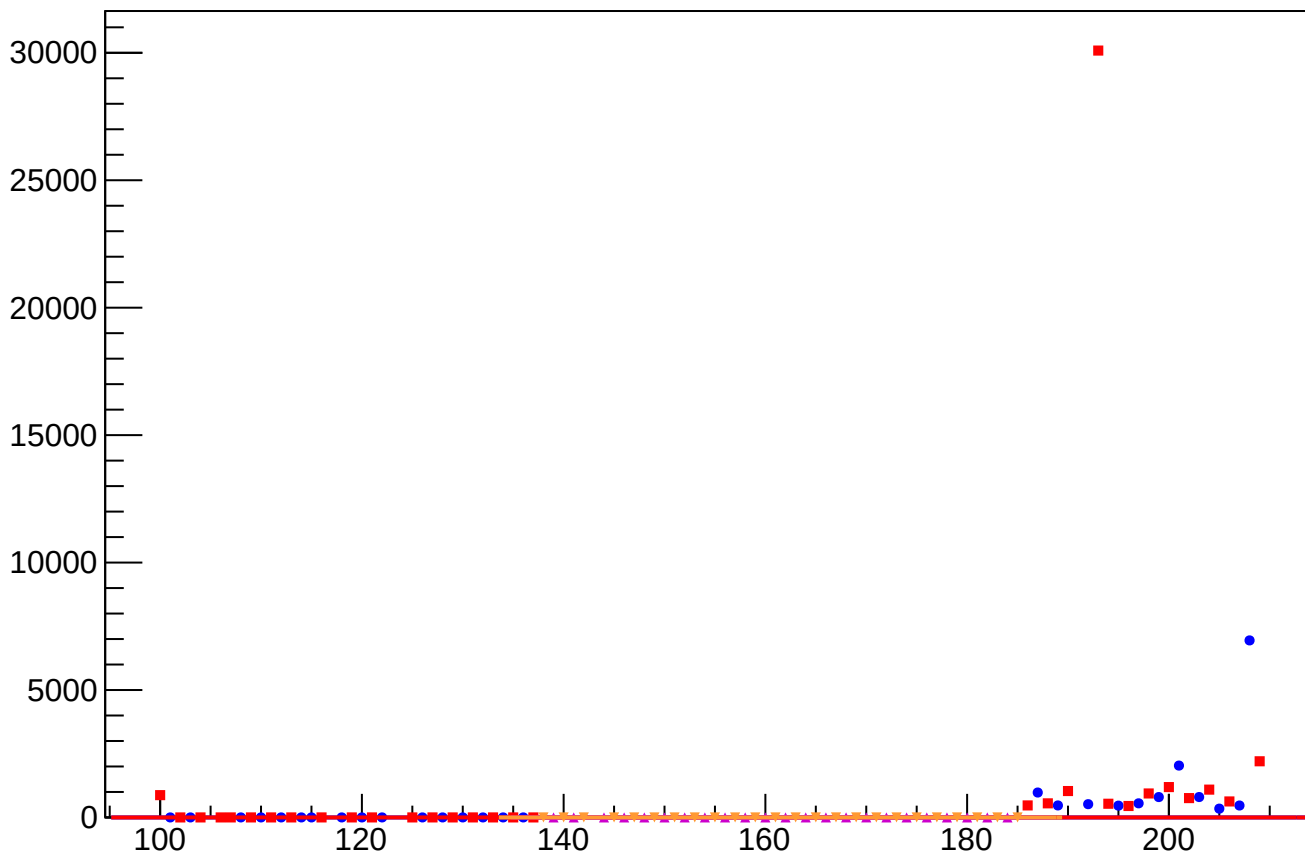
Right: -0.133 ± 0.363 χ^2/NDF : 60.5/56

In: -0.433 ± 0.306 χ^2/NDF : 57.5/49

Out: 0.096 ± 0.306 χ^2/NDF : 50.6/53

All: -0.168 ± 0.217 χ^2/NDF : 109.6/103

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 5537016.2/26

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

Right Out: 1.260+/-0.000 χ^2/NDF : 6118208.5/29

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

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

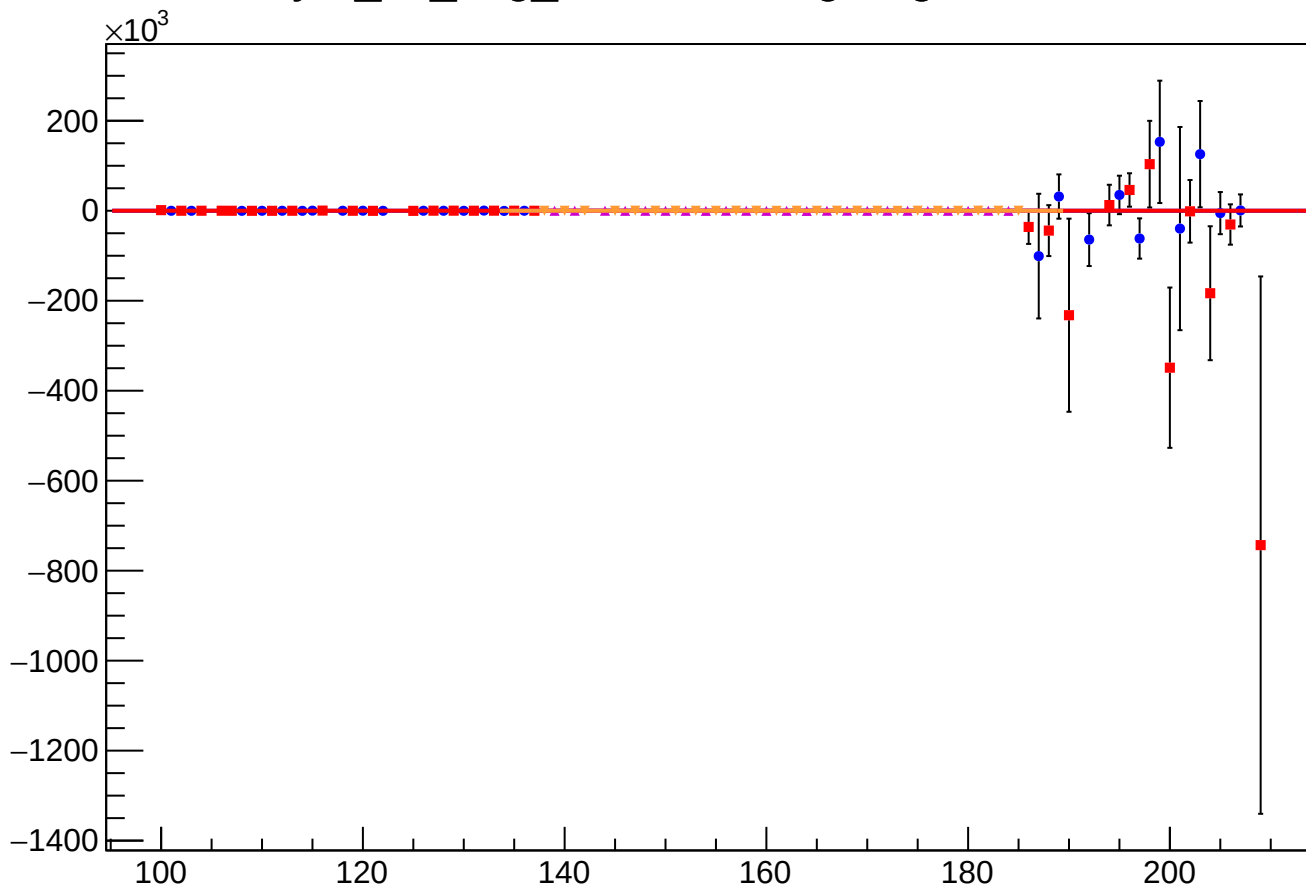
Right: 1.204+/-0.000 χ^2/NDF : 11698608.2/56

In: 1.341+/-0.000 χ^2/NDF : 6981167.4/49

Out: 1.358+/-0.000 χ^2/NDF : 7210877.6/53

All: 1.350+/-0.000 χ^2/NDF : 14195010.0/103

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.494 $\pm$ 30.040 χ^2 /NDF: 23.4/25

Left Out: 3.497 $\pm$ 21.474 χ^2 /NDF:22.1/23

Right Out: 32.005 $\pm$ 30.500 χ^2 /NDF: 29.6/28

Left In: -22.446 $\pm$ 21.591 χ^2 /NDF:22.3/22

Left: -9.404 $\pm$ 15.226 χ^2 /NDF: 45.2/46

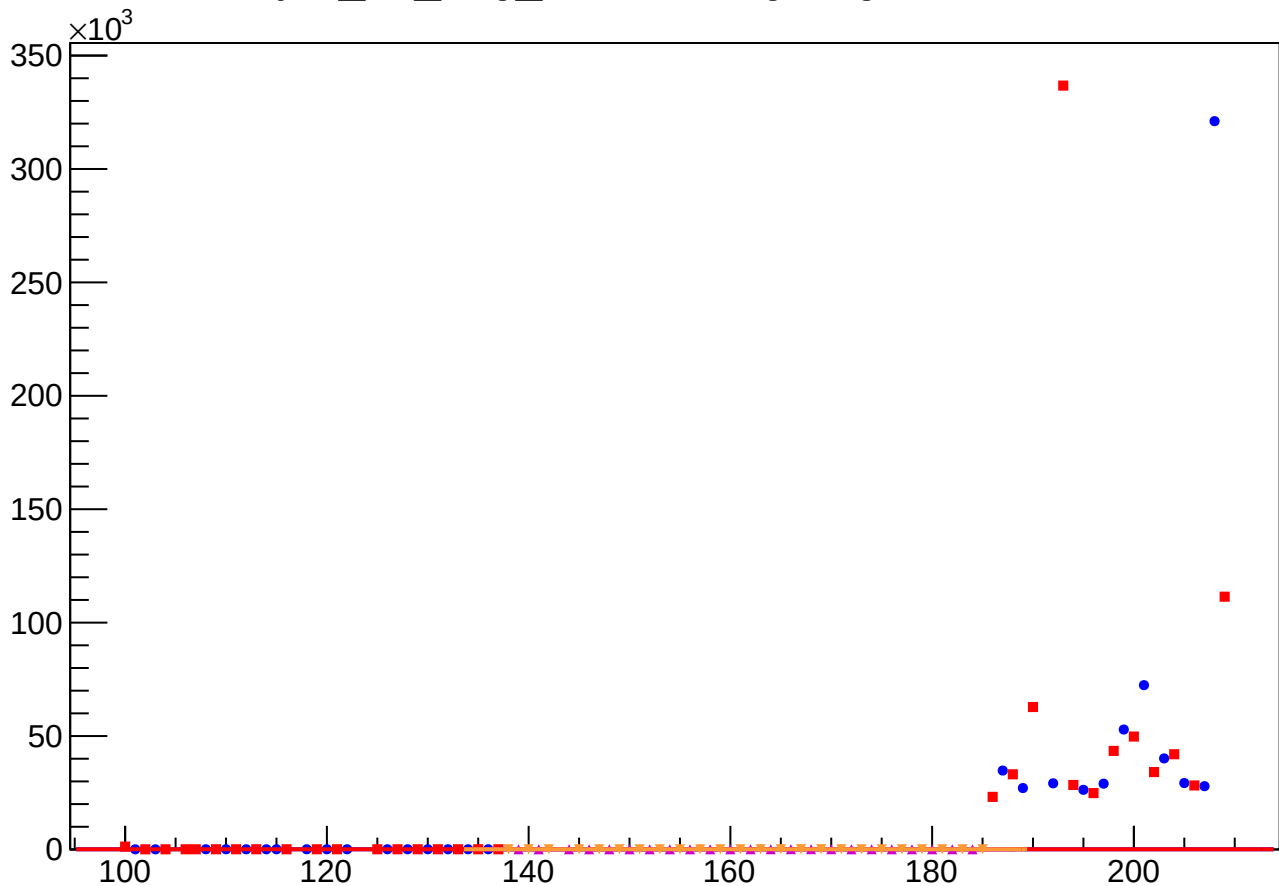
Right: 8.402 $\pm$ 21.402 χ^2 /NDF: 54.2/54

In: -19.737 $\pm$ 17.532 χ^2 /NDF:45.8/48

Out: 12.945 $\pm$ 17.559 χ^2 /NDF:52.3/52

All: -3.421 $\pm$ 12.407 χ^2 /NDF: 99.8/101

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.158+/-0.021 χ^2/NDF : 6229157.5/26

Left Out: 89.719+/-0.015 χ^2/NDF : 467023.5/23

Right Out: 79.459+/-0.022 χ^2/NDF : 5975918.0/29

Left In: 89.622+/-0.015 χ^2/NDF : 509391.8/22

Left: 89.671+/-0.011 χ^2/NDF : 976435.5/46

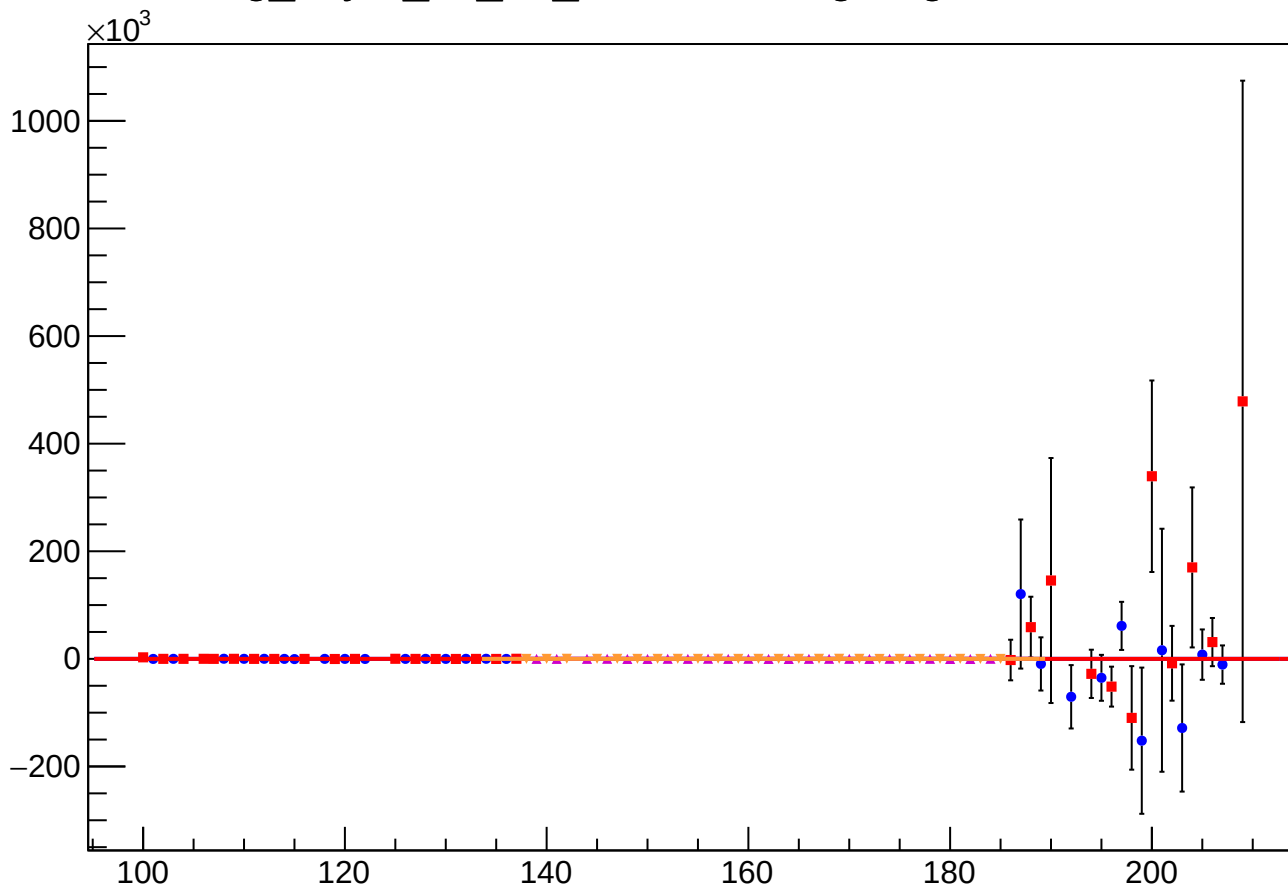
Right: 77.784+/-0.015 χ^2/NDF : 12216965.5/56

In: 85.036+/-0.012 χ^2/NDF : 7003458.4/49

Out: 86.319+/-0.012 χ^2/NDF : 6594247.6/53

All: 85.676+/-0.009 χ^2/NDF : 13603050.0/103

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.088 ± 30.012 $\chi^2/\text{NDF}: 21.4/25$

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

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

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

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

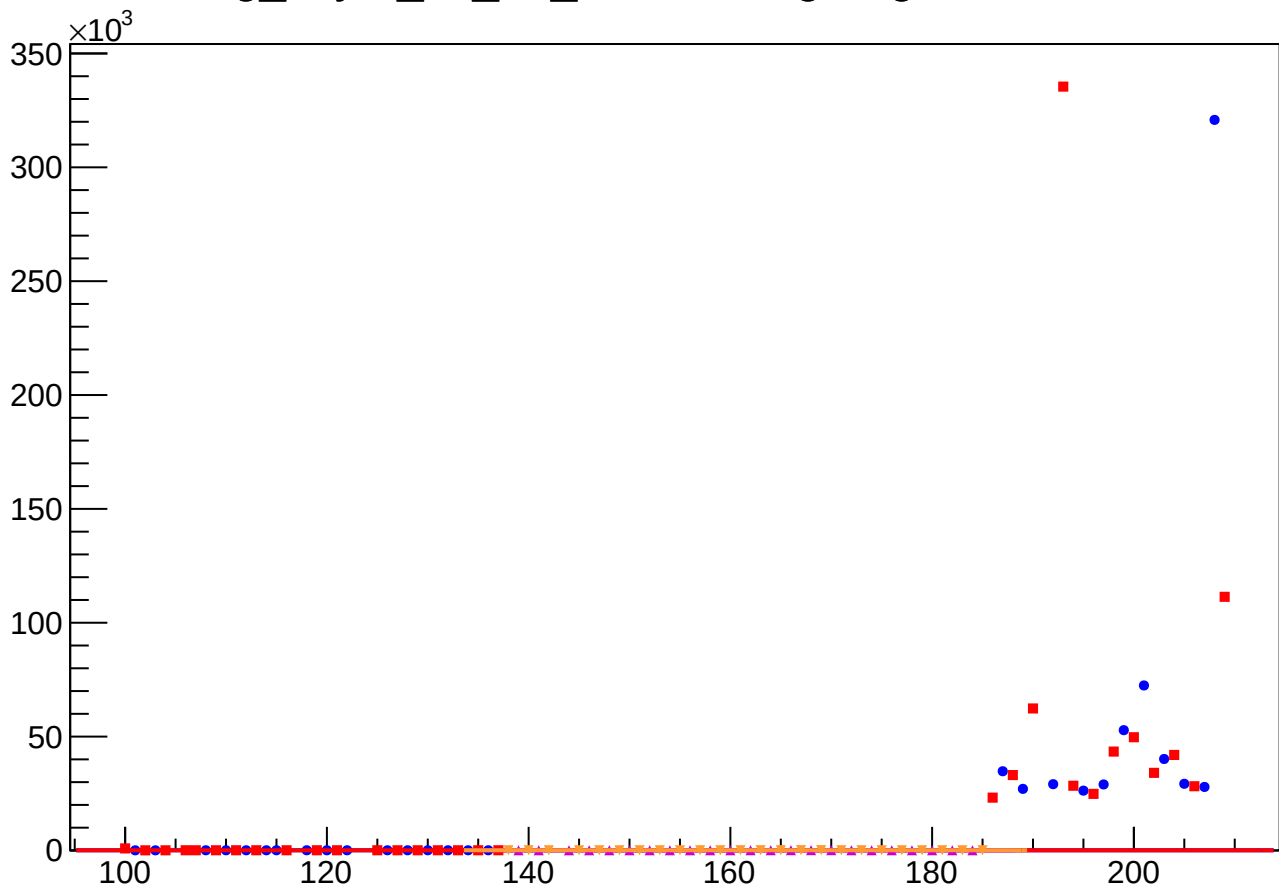
Right: -8.590 ± 21.383 $\chi^2/\text{NDF}: 46.0/54$

In: 31.371 ± 17.528 $\chi^2/\text{NDF}: 53.7/48$

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

All: 16.532 ± 12.403 $\chi^2/\text{NDF}: 97.5/101$

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.089 $\pm$ 0.021 χ^2 /NDF: 6228246.6/26

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

Right Out: 79.407 $\pm$ 0.022 χ^2 /NDF: 5968610.7/29

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

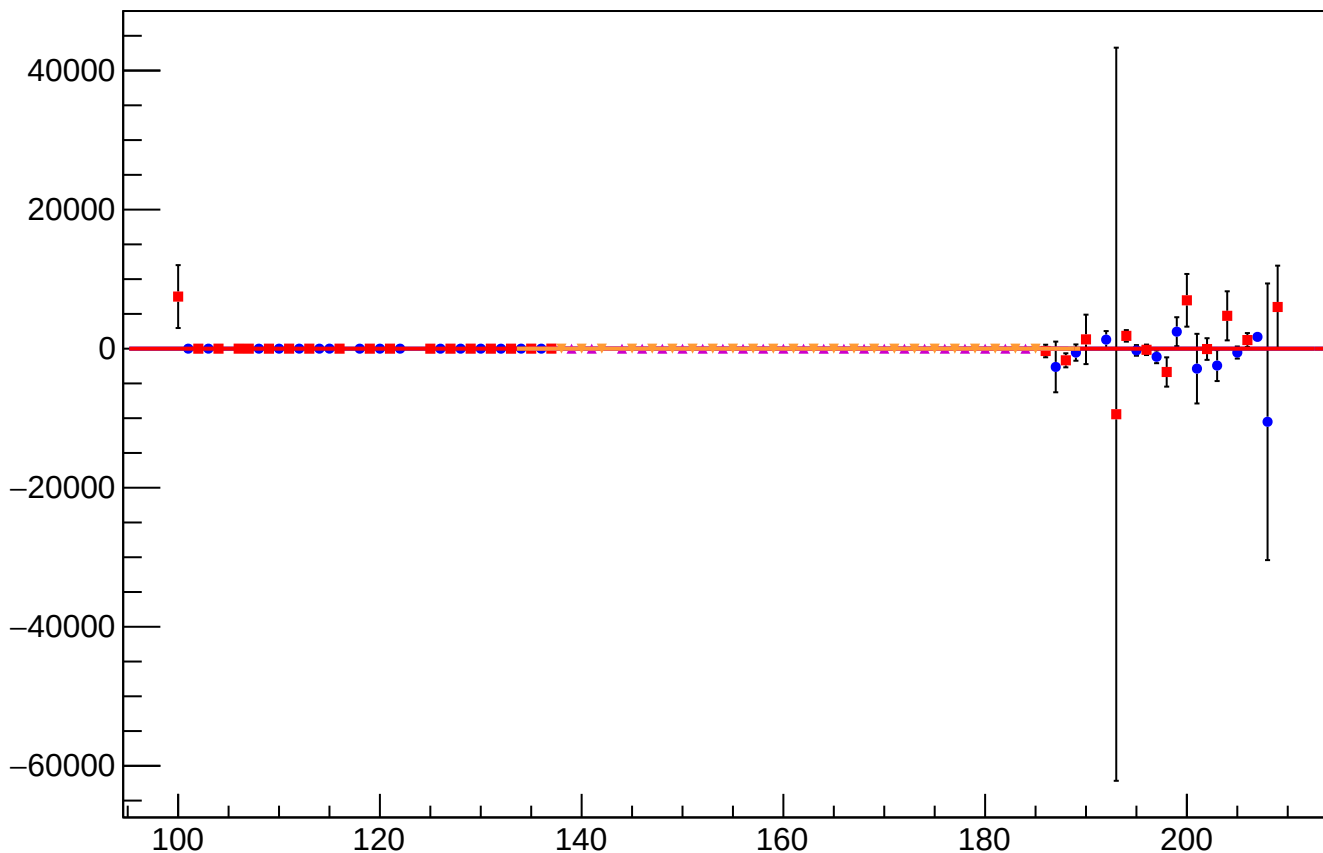
Right: 77.723 $\pm$ 0.015 χ^2 /NDF: 12208893.5/56

In: 85.010 $\pm$ 0.012 χ^2 /NDF: 7007453.8/49

Out: 86.293 $\pm$ 0.012 χ^2 /NDF: 6586537.5/53

All: 85.651 $\pm$ 0.009 χ^2 /NDF: 13599343.4/103

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 25.7/26$

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

Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 31.7/29$

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

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

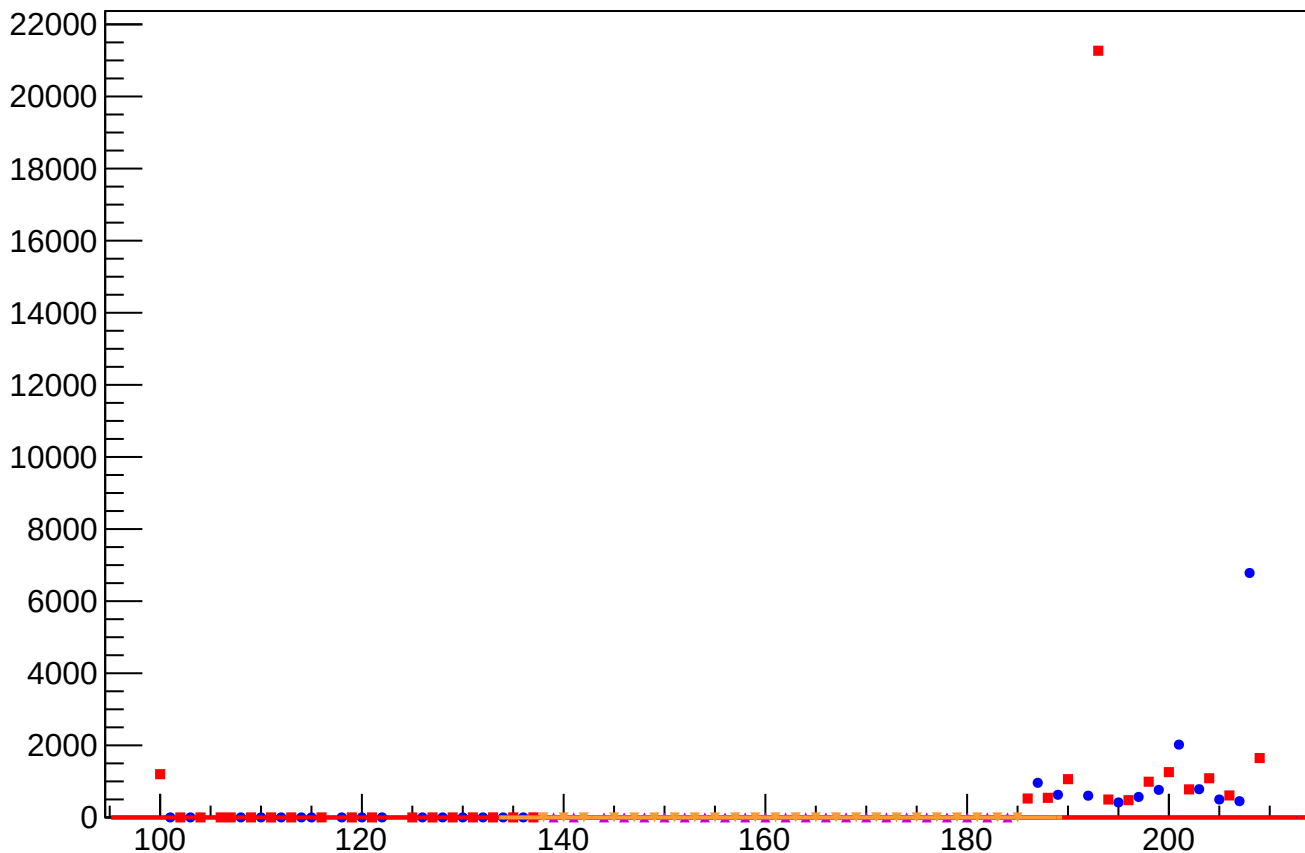
Right: 0.629 ± 0.382 $\chi^2/\text{NDF}: 57.9/56$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 48.2/49$

Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 54.0/53$

All: 0.024 ± 0.224 $\chi^2/\text{NDF}: 103.5/103$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 5825783.3/26

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

Right Out: 1.317+/-0.000 χ^2/NDF : 6042205.1/29

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

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

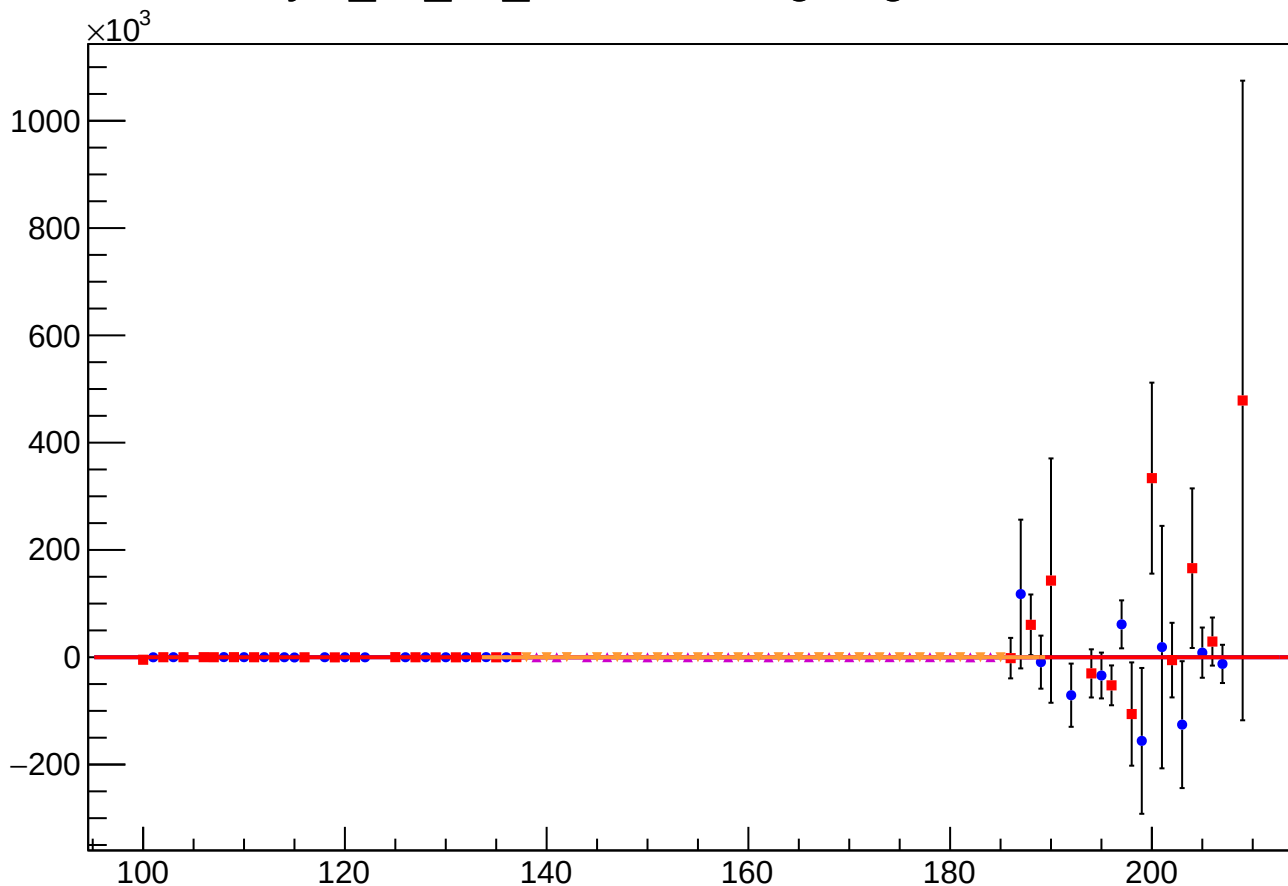
Right: 1.274+/-0.000 χ^2/NDF : 11891167.5/56

In: 1.382+/-0.000 χ^2/NDF : 7110865.0/49

Out: 1.418+/-0.000 χ^2/NDF : 7301140.6/53

All: 1.400+/-0.000 χ^2/NDF : 14425635.1/103

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.380+/-30.020 χ^2/NDF : 21.2/25

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

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

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

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

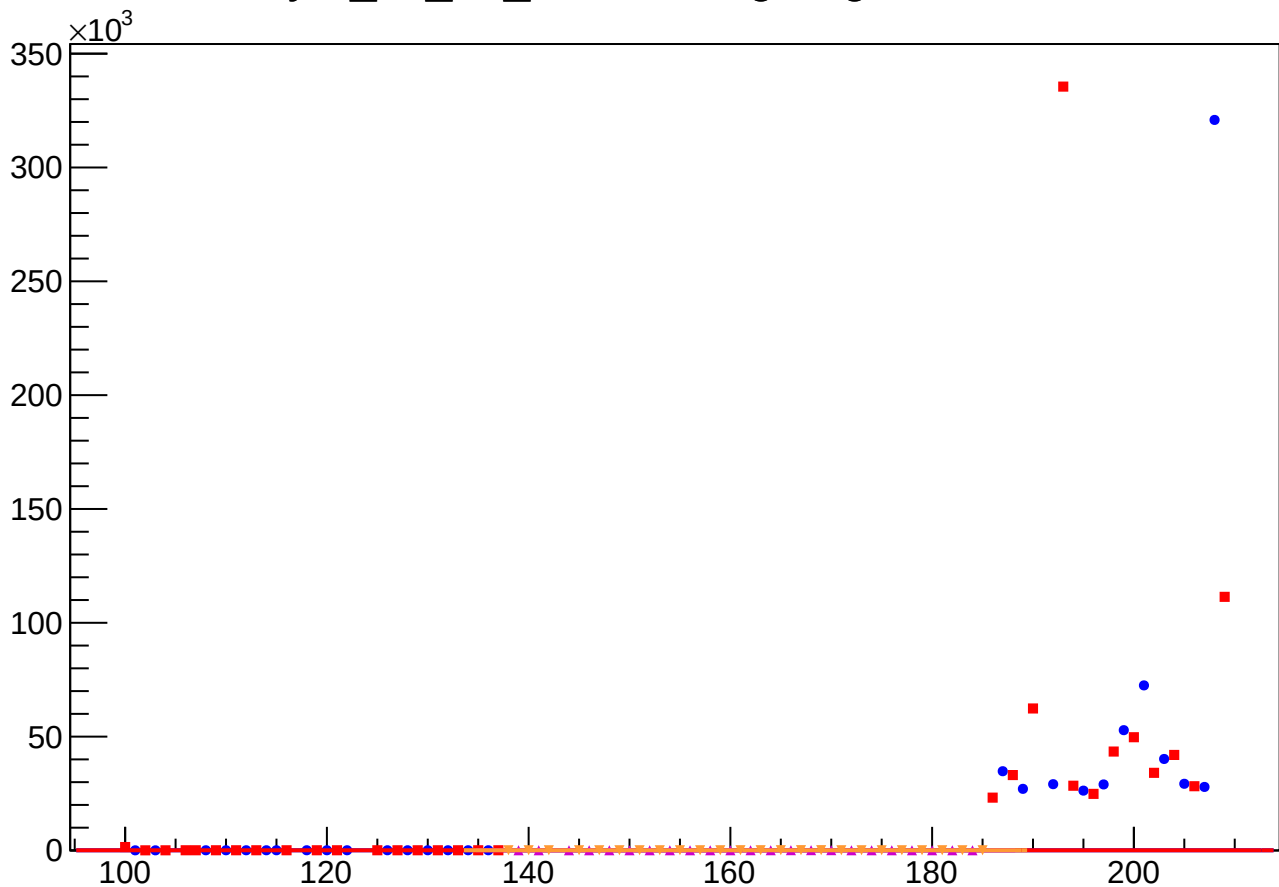
Right: -9.250+/-21.389 χ^2/NDF : 45.9/54

In: 31.446+/-17.533 χ^2/NDF :53.3/48

Out: 1.780+/-17.558 χ^2/NDF :42.3/52

All: 16.634+/-12.407 χ^2/NDF : 97.1/101

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.110 $\pm$ 0.021 χ^2 /NDF: 6228388.4/26

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

Right Out: 79.404 $\pm$ 0.022 χ^2 /NDF: 5977930.2/29

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

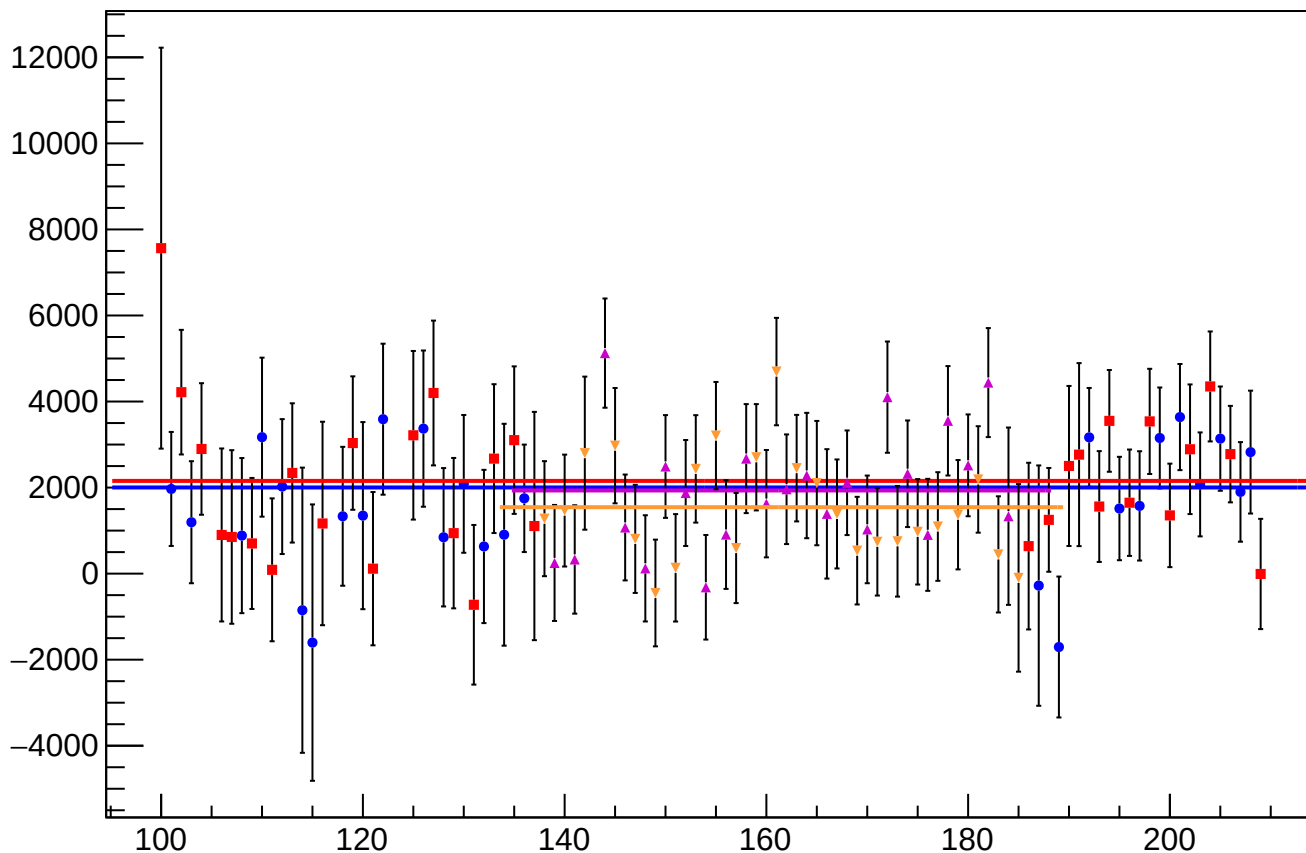
Right: 77.732 $\pm$ 0.015 χ^2 /NDF: 12218175.4/56

In: 85.034 $\pm$ 0.012 χ^2 /NDF: 7008497.9/49

Out: 86.310 $\pm$ 0.012 χ^2 /NDF: 6597428.9/53

All: 85.671 $\pm$ 0.009 χ^2 /NDF: 13611216.0/103

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 2002.723+/-289.536 χ^2/NDF : 17.1/26

Left Out: 1544.102+/-266.270 χ^2/NDF : 20.0/23

Right Out: 2155.384+/-279.168 χ^2/NDF : 25.1/30

Left In: 1933.000+/-268.006 χ^2/NDF : 27.0/22

Left: 1737.287+/-188.892 χ^2/NDF : 48.0/46

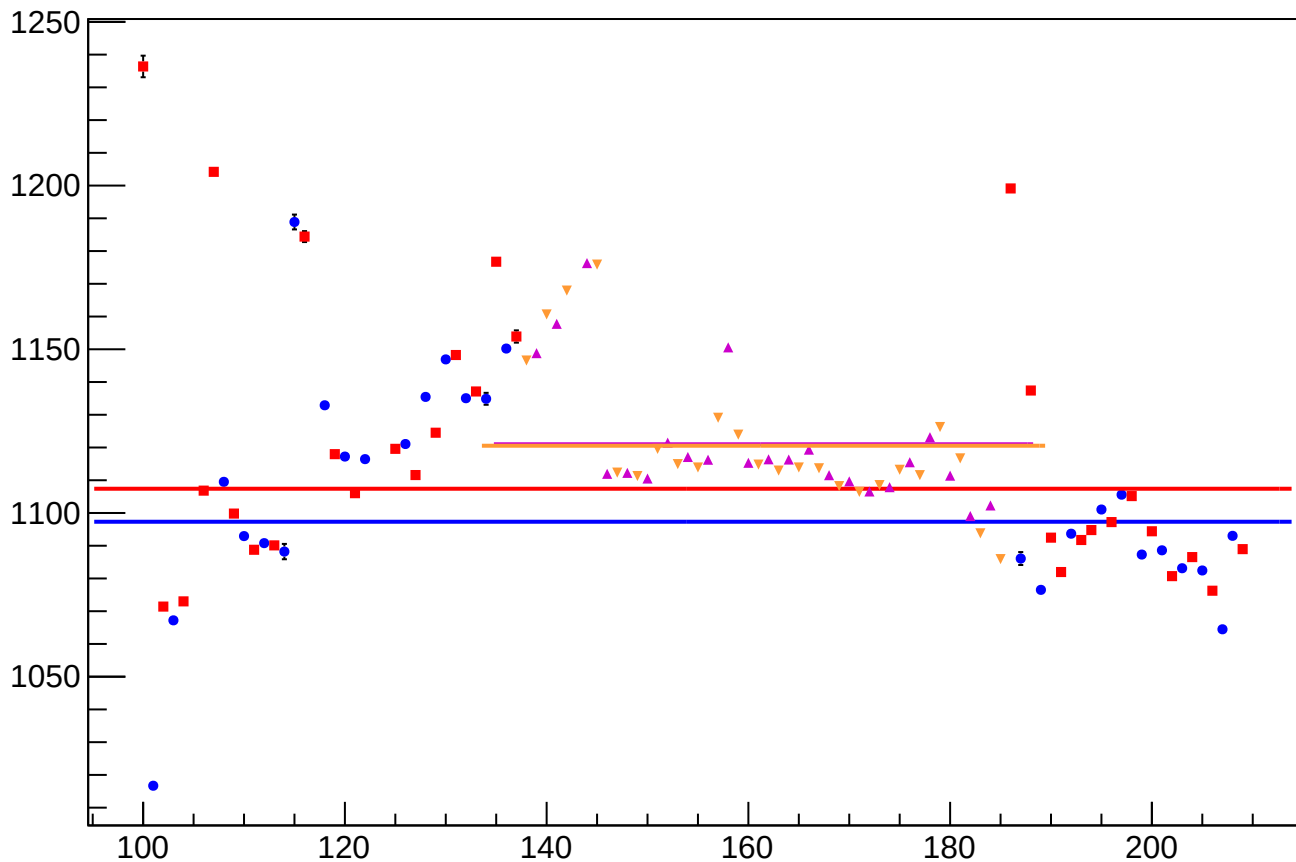
Right: 2081.836+/-200.967 χ^2/NDF : 42.3/57

In: 1965.173+/-196.680 χ^2/NDF : 44.2/49

Out: 1835.297+/-192.680 χ^2/NDF : 47.6/54

All: 1898.900+/-137.638 χ^2/NDF : 91.9/104

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1097.325+/-0.205 χ^2/NDF : 22689.3/26

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

Right Out: 1107.407+/-0.197 χ^2/NDF : 27009.9/30

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

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

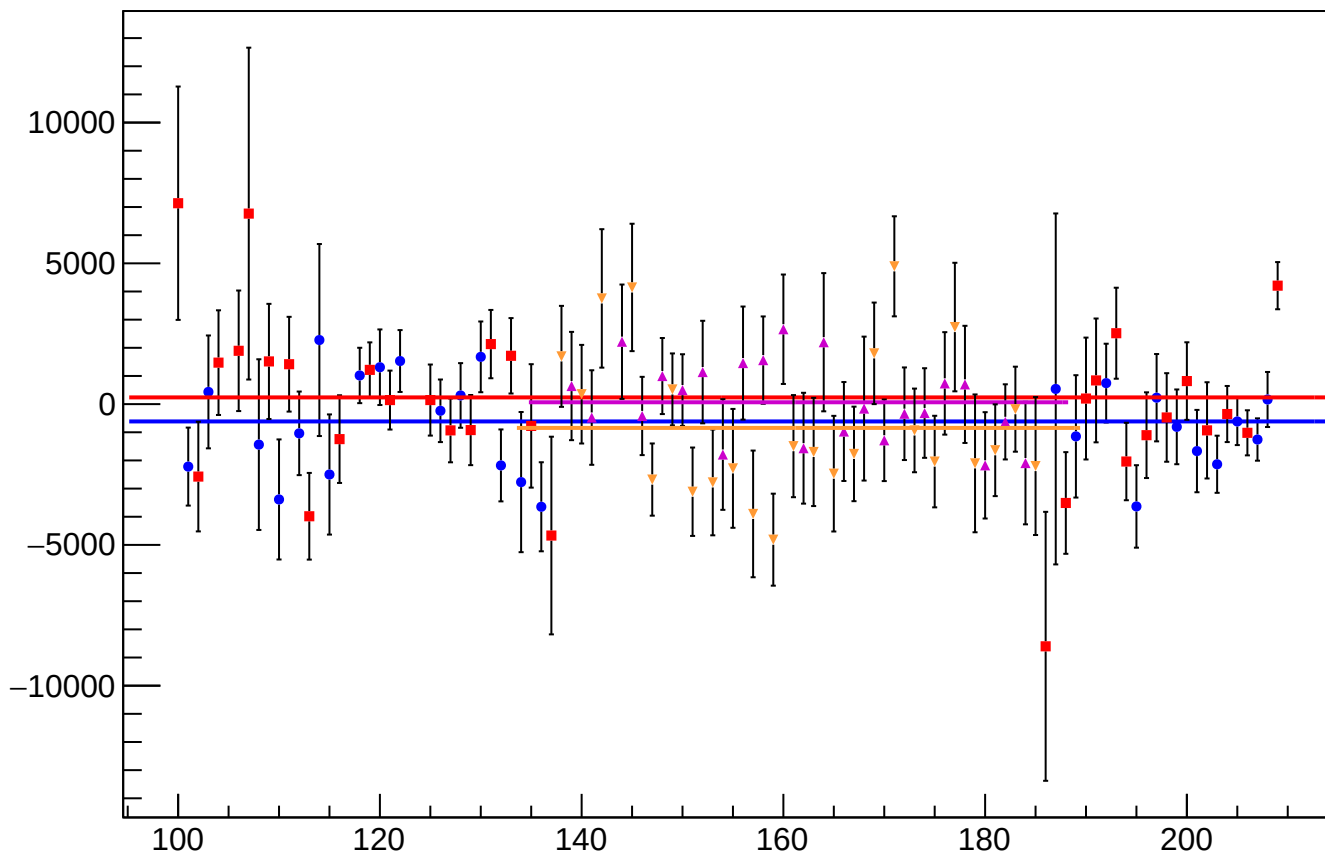
Right: 1102.550+/-0.142 χ^2/NDF : 50955.7/57

In: 1110.071+/-0.139 χ^2/NDF : 39527.1/49

Out: 1114.285+/-0.136 χ^2/NDF : 39581.5/54

All: 1112.221+/-0.097 χ^2/NDF : 79577.2/104

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -614.871 $\pm$ 253.793 χ^2 /NDF: 33.3/26

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

Right Out: 238.689 $\pm$ 256.493 χ^2 /NDF: 64.6/30

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

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

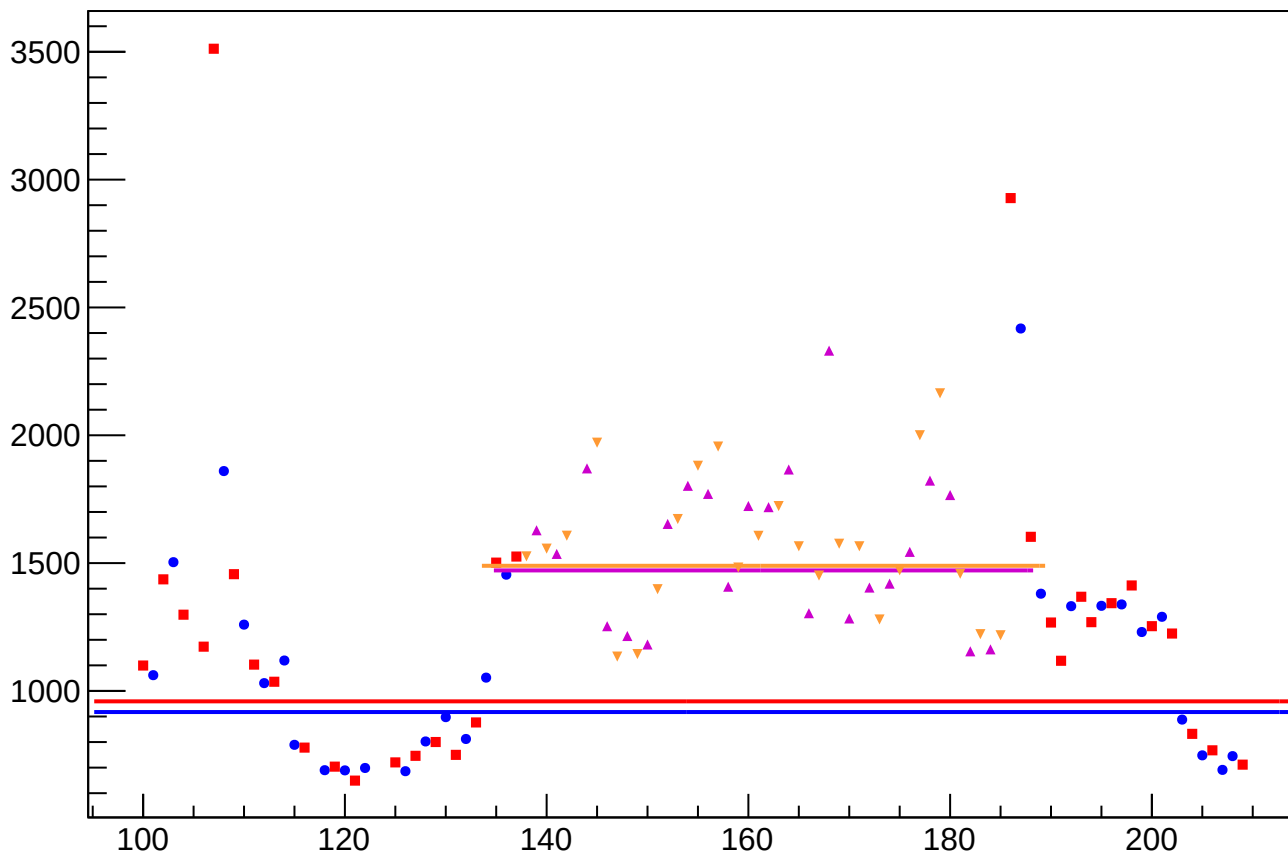
Right: -192.607 $\pm$ 180.406 χ^2 /NDF: 103.6/57

In: -387.890 $\pm$ 207.196 χ^2 /NDF:47.9/49

Out: -124.669 $\pm$ 209.117 χ^2 /NDF:113.8/54

All: -257.494 $\pm$ 147.184 χ^2 /NDF: 162.5/104

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 917.409+/-0.179 χ^2/NDF : 2322945.0/26

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

Right Out: 959.229+/-0.181 χ^2/NDF : 3106754.4/30

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

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

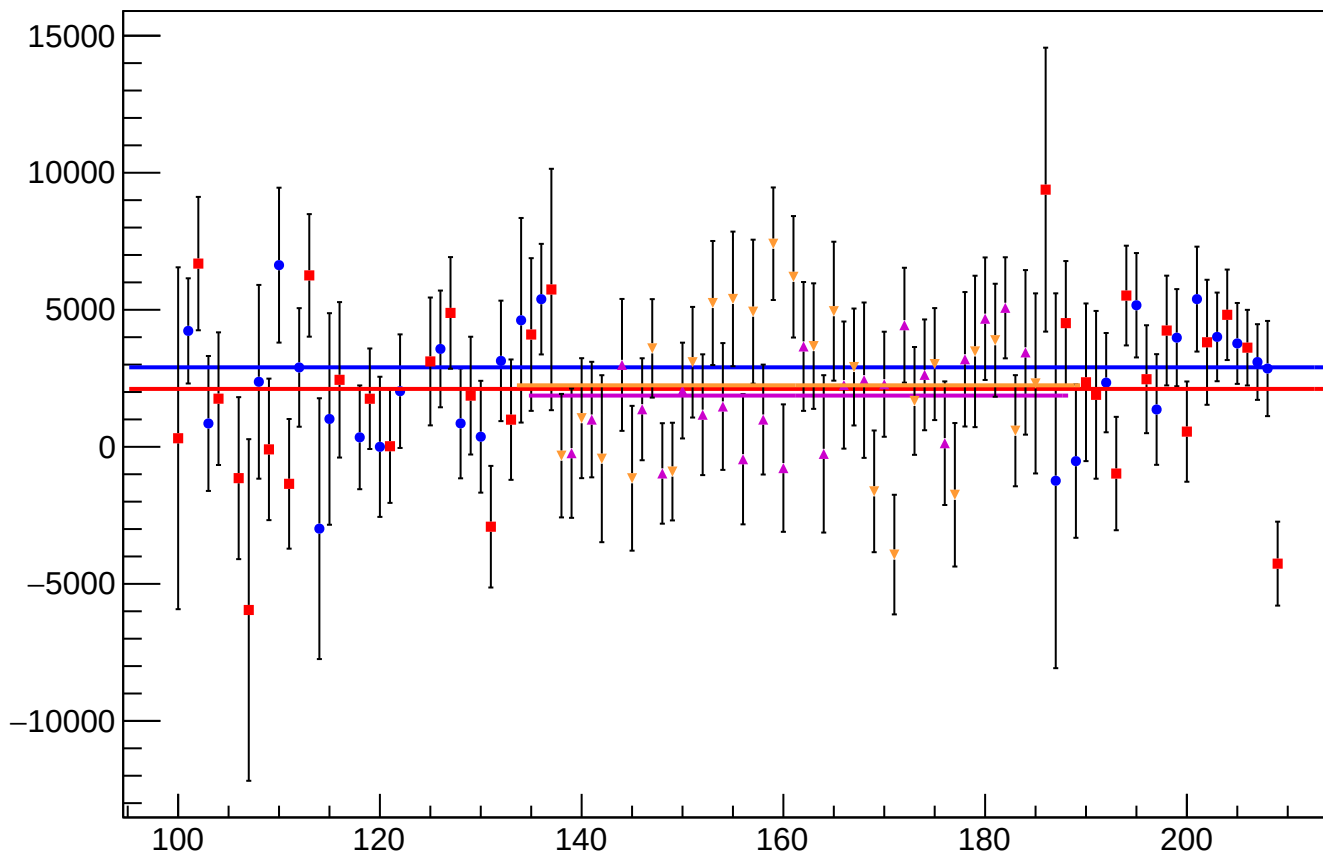
Right: 938.098+/-0.128 χ^2/NDF : 5456564.3/57

In: 1102.162+/-0.147 χ^2/NDF : 6606279.9/49

Out: 1137.029+/-0.148 χ^2/NDF : 6982225.1/54

All: 1119.434+/-0.104 χ^2/NDF : 13616561.8/1

asym_usl_mean vs Slug, Sign Corrected



Right In: 2901.144+/-403.898 χ^2/NDF : 19.3/26

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

Right Out: 2113.030+/-400.472 χ^2/NDF : 55.0/30

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

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

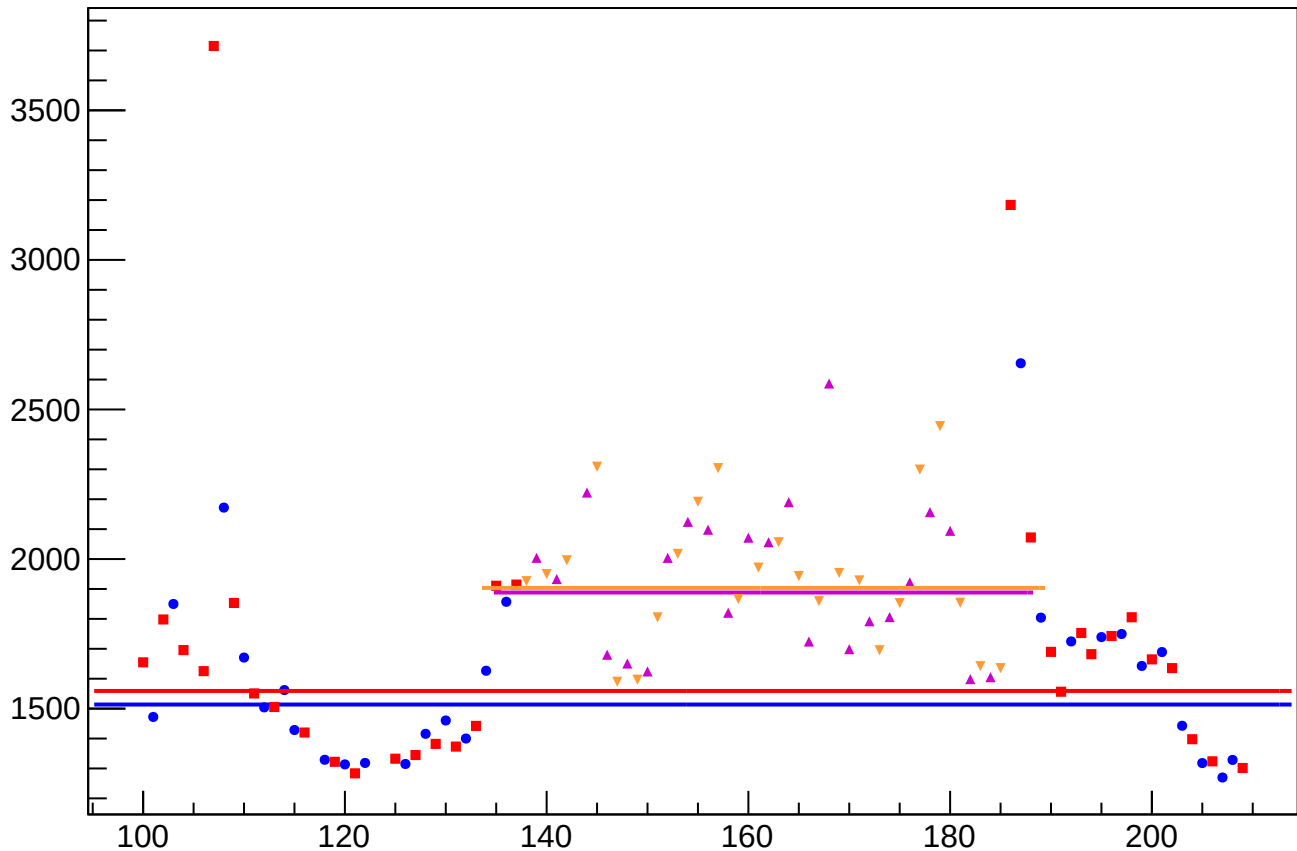
Right: 2503.730+/-284.380 χ^2/NDF : 76.2/57

In: 2447.134+/-302.193 χ^2/NDF : 37.0/49

Out: 2170.173+/-301.040 χ^2/NDF : 93.6/54

All: 2308.124+/-213.274 χ^2/NDF : 131.1/104

asym_usl_rms vs Slug, Sign Corrected



Right In: 1513.652 $\pm$ 0.286 χ^2 /NDF: 563931.4/26

Left Out: 1903.581 $\pm$ 0.323 χ^2 /NDF: 461788.9/23

Right Out: 1559.054 $\pm$ 0.283 χ^2 /NDF: 1007024.7/30

Left In: 1888.121 $\pm$ 0.322 χ^2 /NDF: 504568.6/22

Left: 1895.834 $\pm$ 0.228 χ^2 /NDF: 967507.1/46

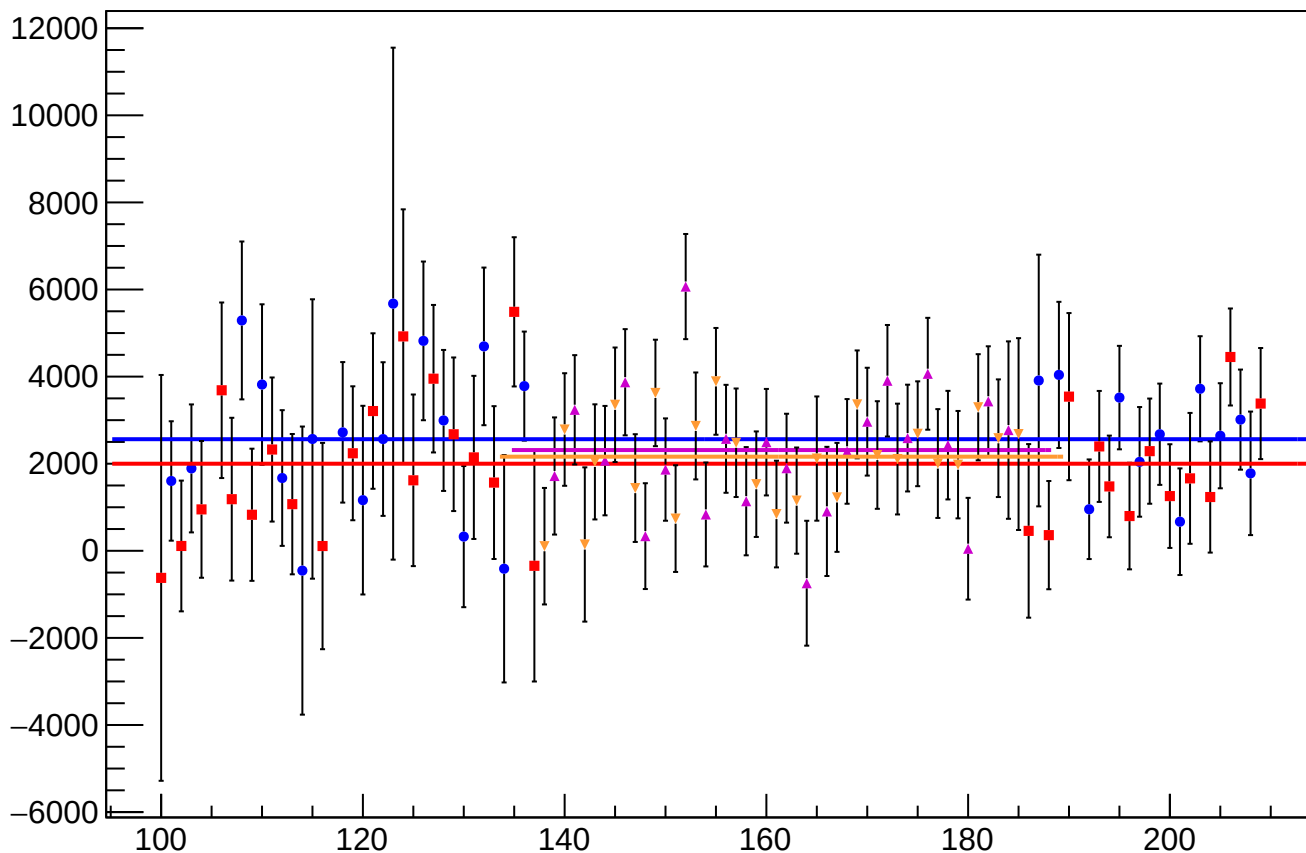
Right: 1536.547 $\pm$ 0.201 χ^2 /NDF: 1583699.5/57

In: 1678.497 $\pm$ 0.214 χ^2 /NDF: 1825293.9/49

Out: 1708.898 $\pm$ 0.213 χ^2 /NDF: 2112608.7/54

All: 1693.755 $\pm$ 0.151 χ^2 /NDF: 3948061.8/100

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2562.688 $\pm$ 289.785 χ^2 /NDF: 20.0/27

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

Right Out: 1999.756 $\pm$ 280.362 χ^2 /NDF: 23.9/30

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

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

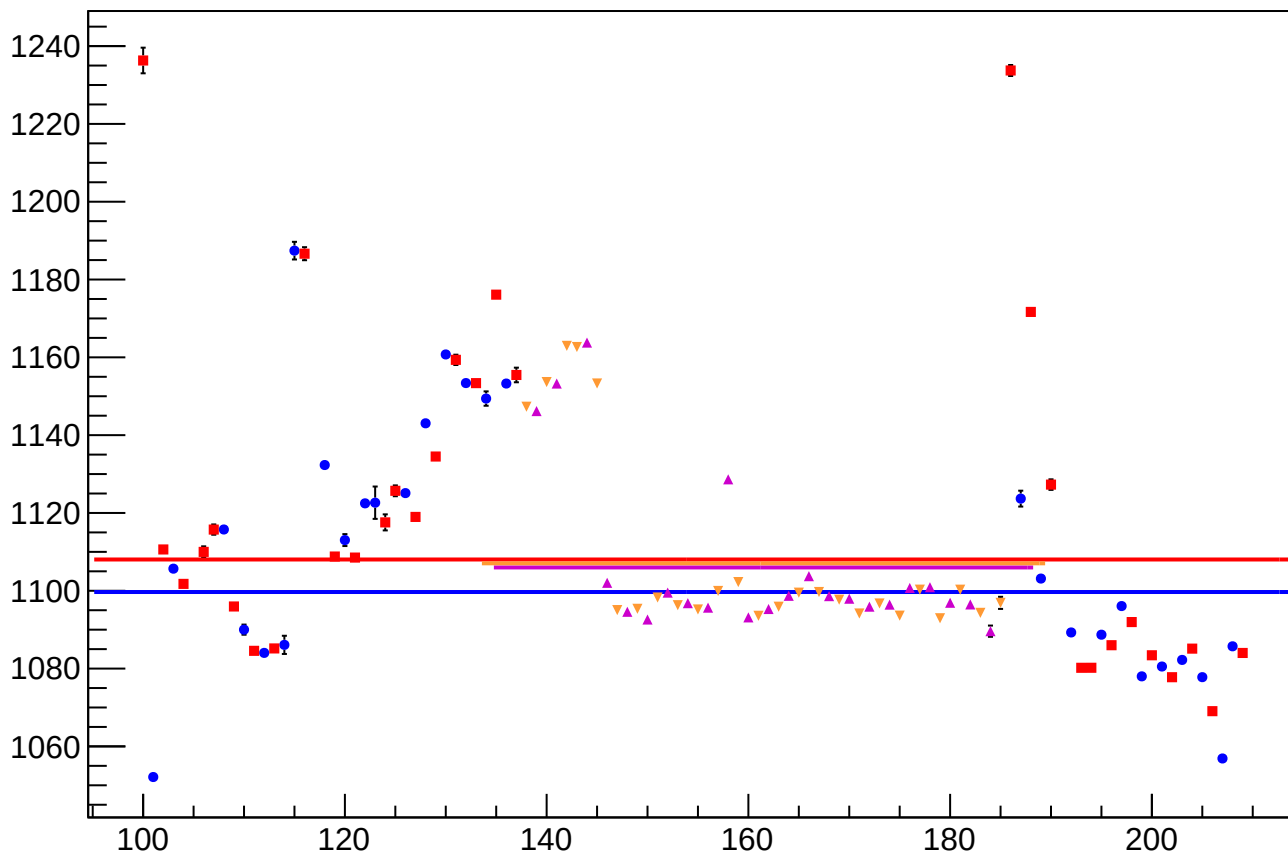
Right: 2271.920 $\pm$ 201.495 χ^2 /NDF: 45.9/58

In: 2426.720 $\pm$ 195.330 χ^2 /NDF:51.7/50

Out: 2087.445 $\pm$ 189.655 χ^2 /NDF:39.2/55

All: 2252.083 $\pm$ 136.068 χ^2 /NDF: 92.4/106

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1099.681 $\pm$ 0.205 χ^2 /NDF: 22181.1/27

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

Right Out: 1108.040 $\pm$ 0.198 χ^2 /NDF: 34033.1/30

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

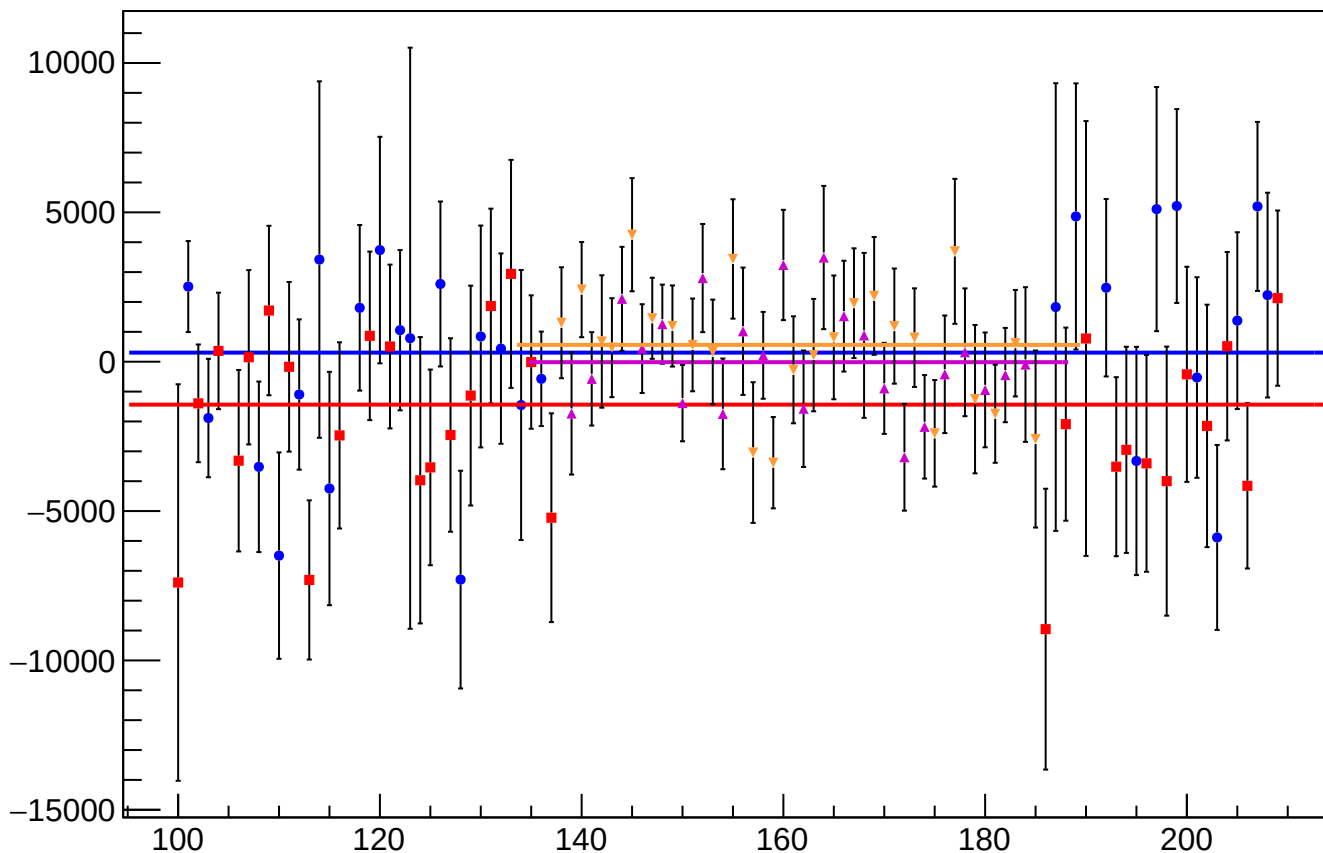
Right: 1103.999 $\pm$ 0.142 χ^2 /NDF: 57073.8/58

In: 1103.127 $\pm$ 0.138 χ^2 /NDF: 34250.7/50

Out: 1107.507 $\pm$ 0.134 χ^2 /NDF: 49222.1/55

All: 1105.382 $\pm$ 0.096 χ^2 /NDF: 83990.4/106

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 304.365+/-555.421 χ^2/NDF : 31.3/27

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

Right Out: -1437.179+/-555.844 χ^2/NDF : 21.5/30

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

Left: 278.615+/-257.275 χ^2/NDF : 48.2/47

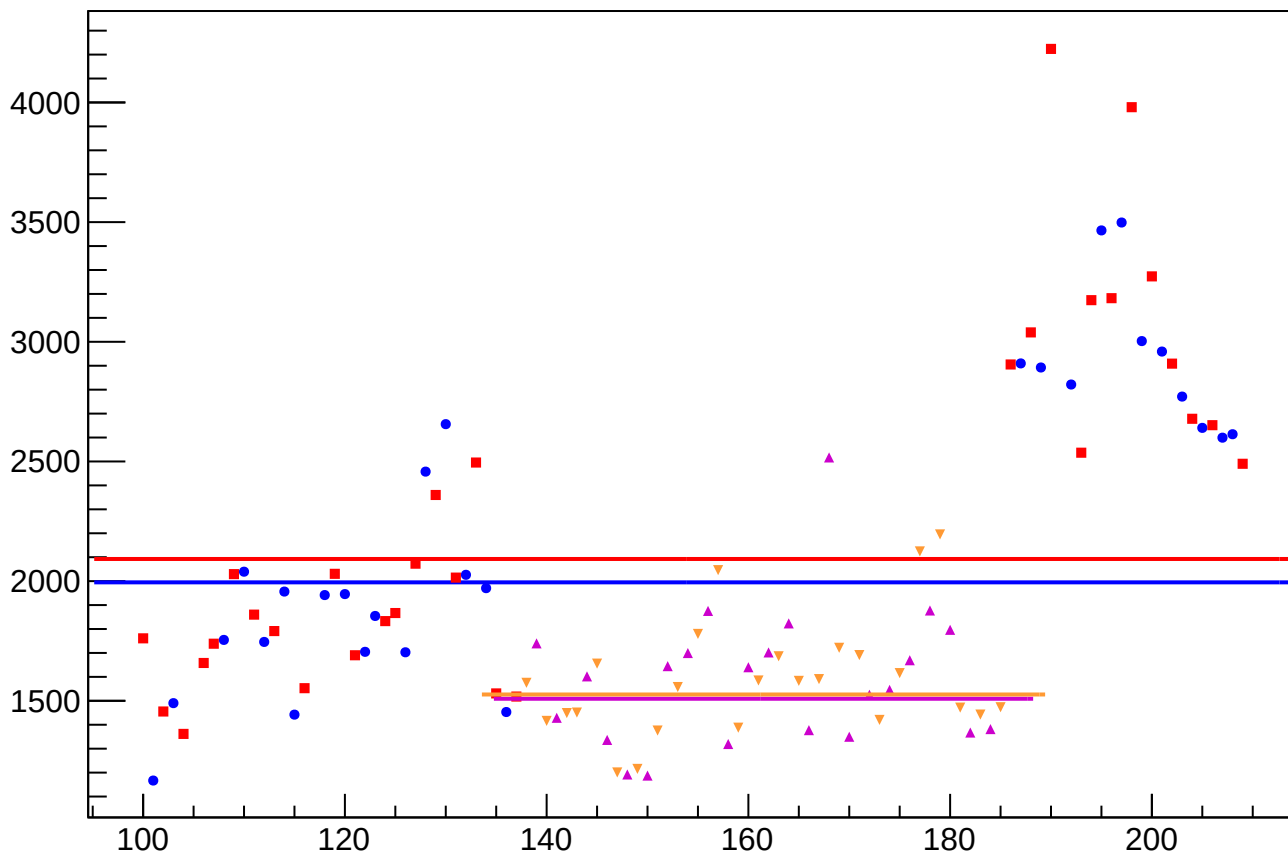
Right: -565.745+/-392.891 χ^2/NDF : 57.8/58

In: 81.644+/-306.110 χ^2/NDF :51.7/50

Out: -29.961+/-302.694 χ^2/NDF :57.4/55

All: 25.215+/-215.235 χ^2/NDF : 109.2/106

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1994.911 $\pm$ 0.393

χ^2/NDF : 2741052.2/27

Left: 1517.632 $\pm$ 0.182

χ^2/NDF : 1687794.7/47

Left Out: 1526.391 $\pm$ 0.255

χ^2/NDF : 753714.4/24

Right: 2043.707 $\pm$ 0.278

χ^2/NDF : 5369662.0/58

Right Out: 2092.577 $\pm$ 0.393

χ^2/NDF : 2597712.7/30

In: 1656.302 $\pm$ 0.216

χ^2/NDF : 4740352.2/50

Out: 1694.295 $\pm$ 0.214

χ^2/NDF : 4811162.7/55

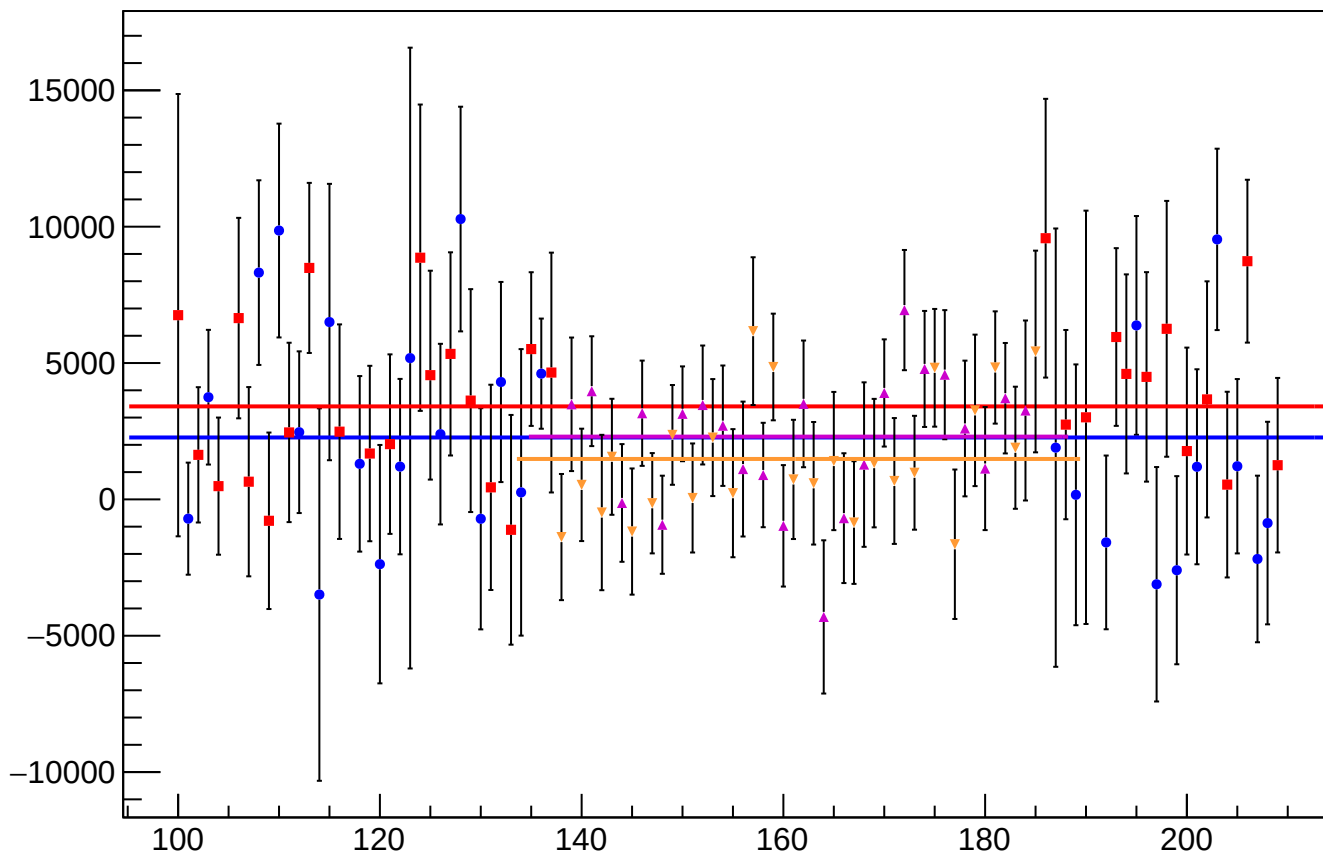
Left In: 1508.581 $\pm$ 0.259

χ^2/NDF : 931684.8/22

All: 1675.512 $\pm$ 0.152

χ^2/NDF : 9567093.0/10

asym_usr_mean vs Slug, Sign Corrected



Right In: 2270.249 $\pm$ 652.168 χ^2 /NDF: 32.4/27

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

Right Out: 3409.678 $\pm$ 643.648 χ^2 /NDF: 19.3/30

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

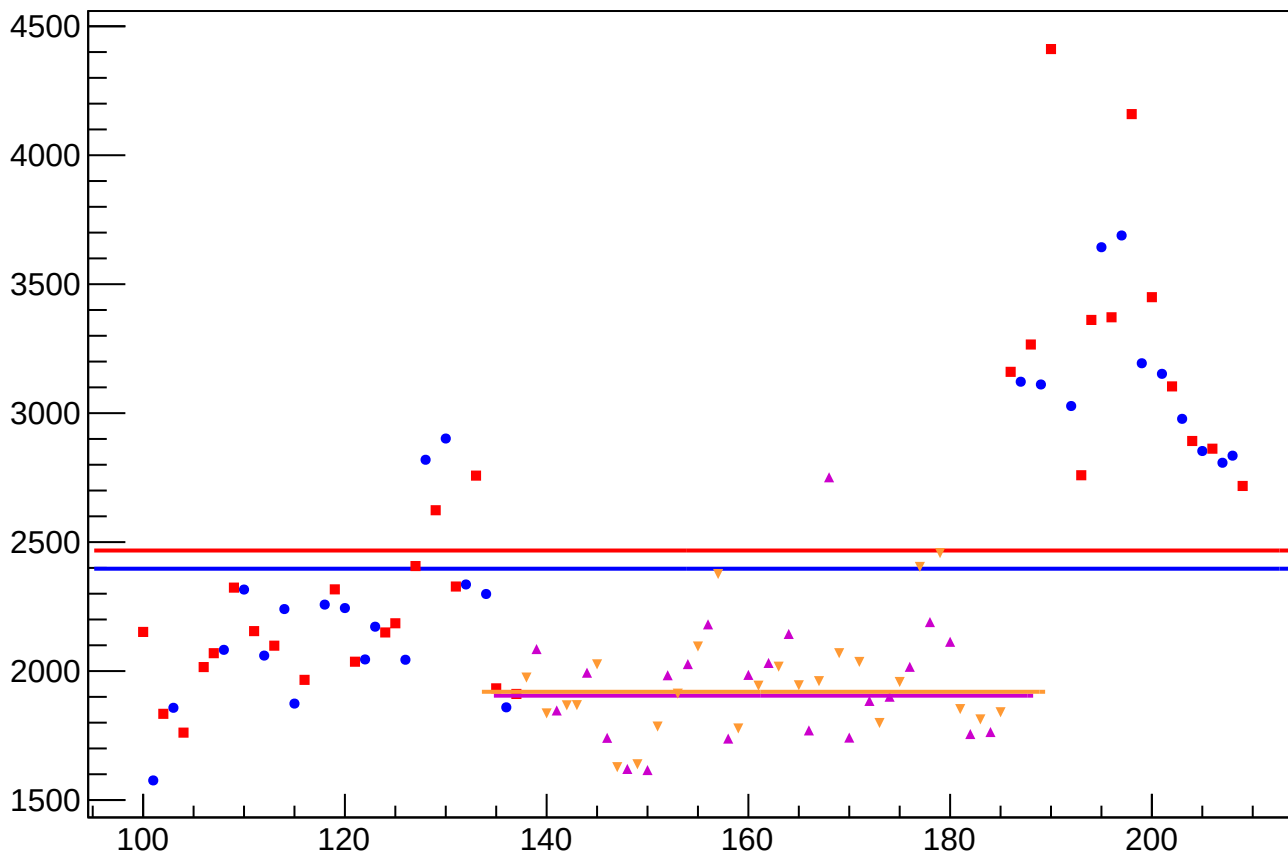
Right: 2847.455 $\pm$ 458.111 χ^2 /NDF: 53.2/58

In: 2290.978 $\pm$ 375.377 χ^2 /NDF:57.2/50

Out: 2115.101 $\pm$ 368.794 χ^2 /NDF:46.2/55

All: 2201.484 $\pm$ 263.073 χ^2 /NDF: 103.6/106

asym_usr_rms vs Slug, Sign Corrected



Right In: 2396.864 $\pm$ 0.461 χ^2/NDF : 1604144.2/27

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

Right Out: 2467.435 $\pm$ 0.455 χ^2/NDF : 1642626.7/30

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

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

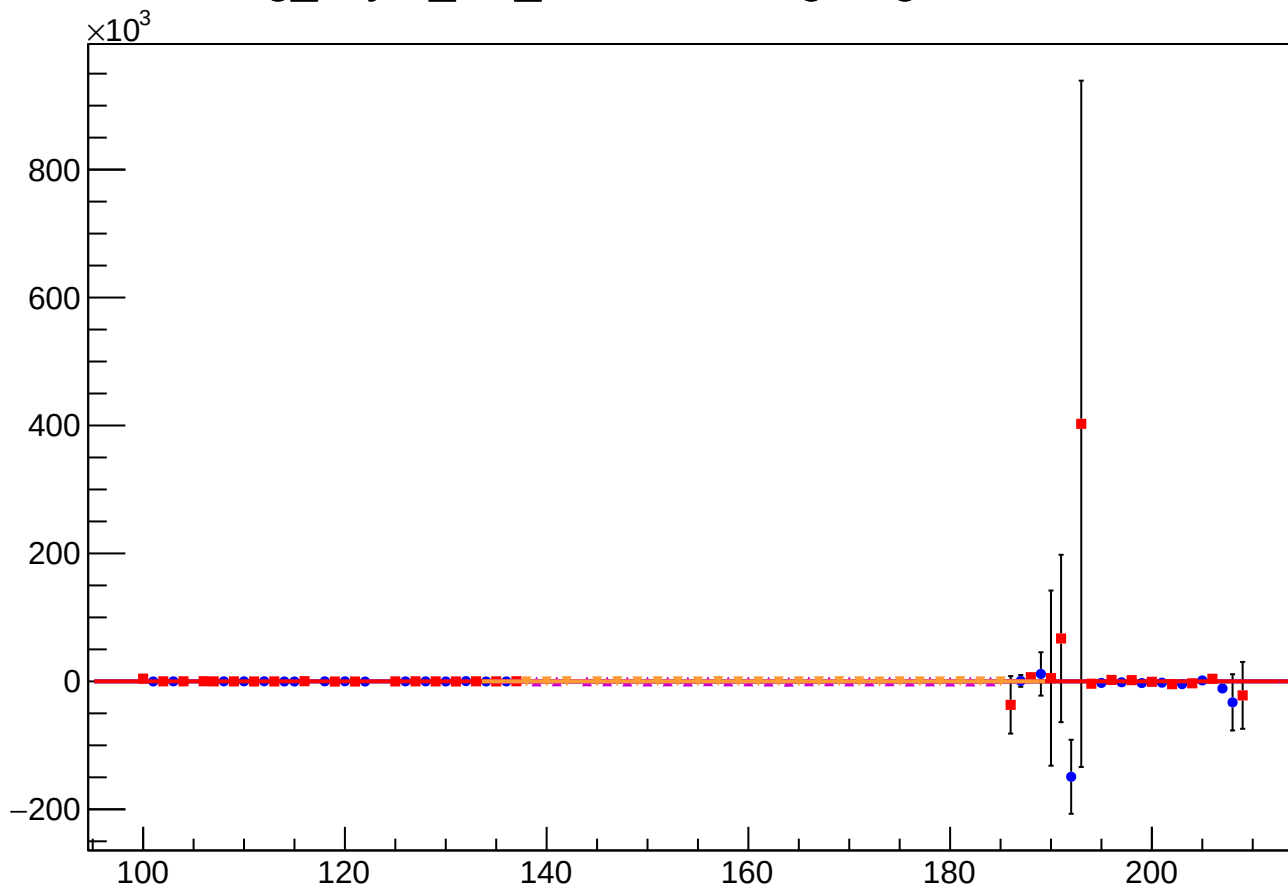
Right: 2432.613 $\pm$ 0.324 χ^2/NDF : 3258634.4/58

In: 2067.704 $\pm$ 0.265 χ^2/NDF : 2813380.6/50

Out: 2099.543 $\pm$ 0.261 χ^2/NDF : 2981590.3/55

All: 2083.905 $\pm$ 0.186 χ^2/NDF : 5802292.3/10

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.378 ± 36.762 $\chi^2/\text{NDF}: 32.0/26$

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

Right Out: 1.819 ± 36.747 $\chi^2/\text{NDF}: 19.6/30$

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

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

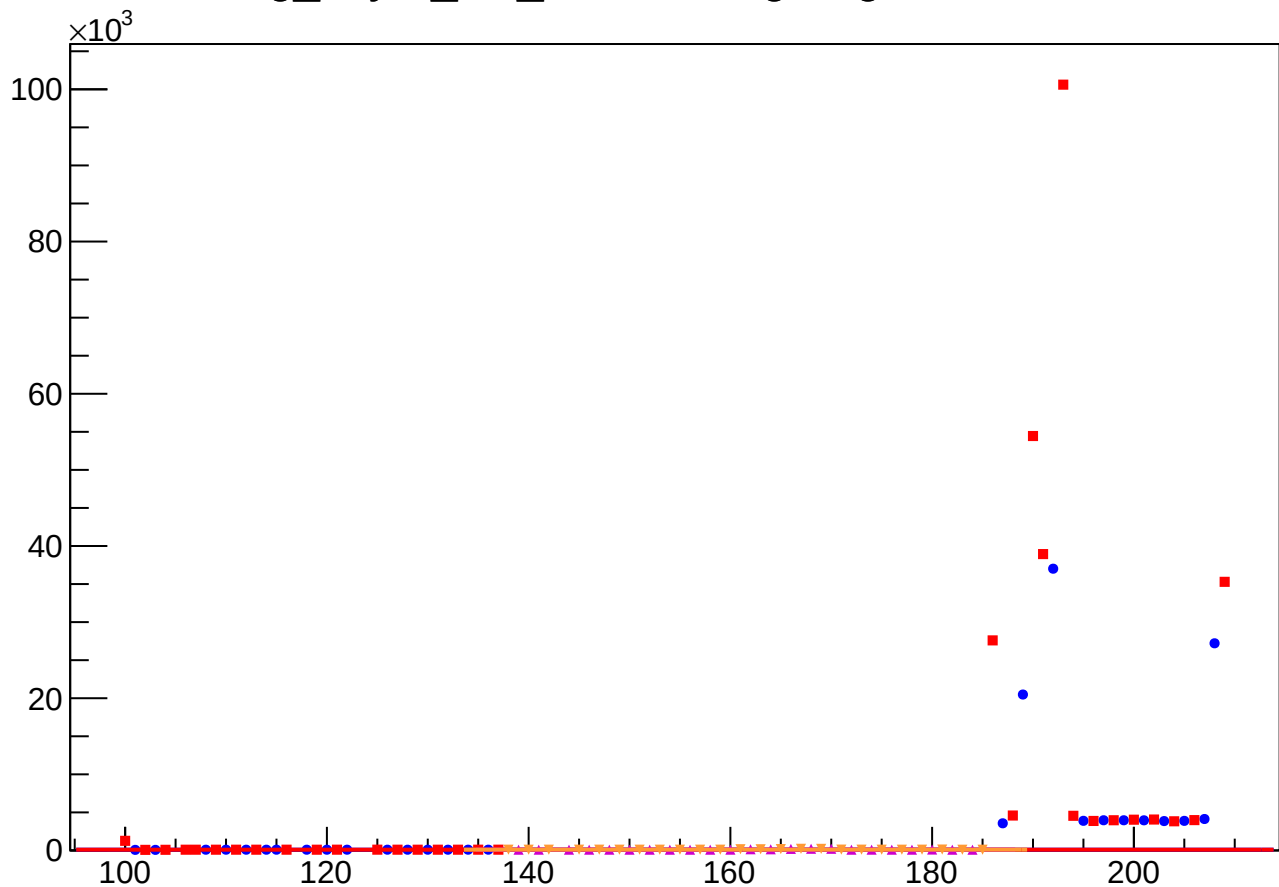
Right: -0.279 ± 25.989 $\chi^2/\text{NDF}: 51.7/57$

In: 15.570 ± 21.413 $\chi^2/\text{NDF}: 68.8/49$

Out: 8.730 ± 21.365 $\chi^2/\text{NDF}: 55.6/54$

All: 12.143 ± 15.124 $\chi^2/\text{NDF}: 124.4/104$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.054 $\pm$ 0.026 χ^2 /NDF: 13557962.3/26

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

Right Out: 98.246 $\pm$ 0.026 χ^2 /NDF: 13378491.5/30

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

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

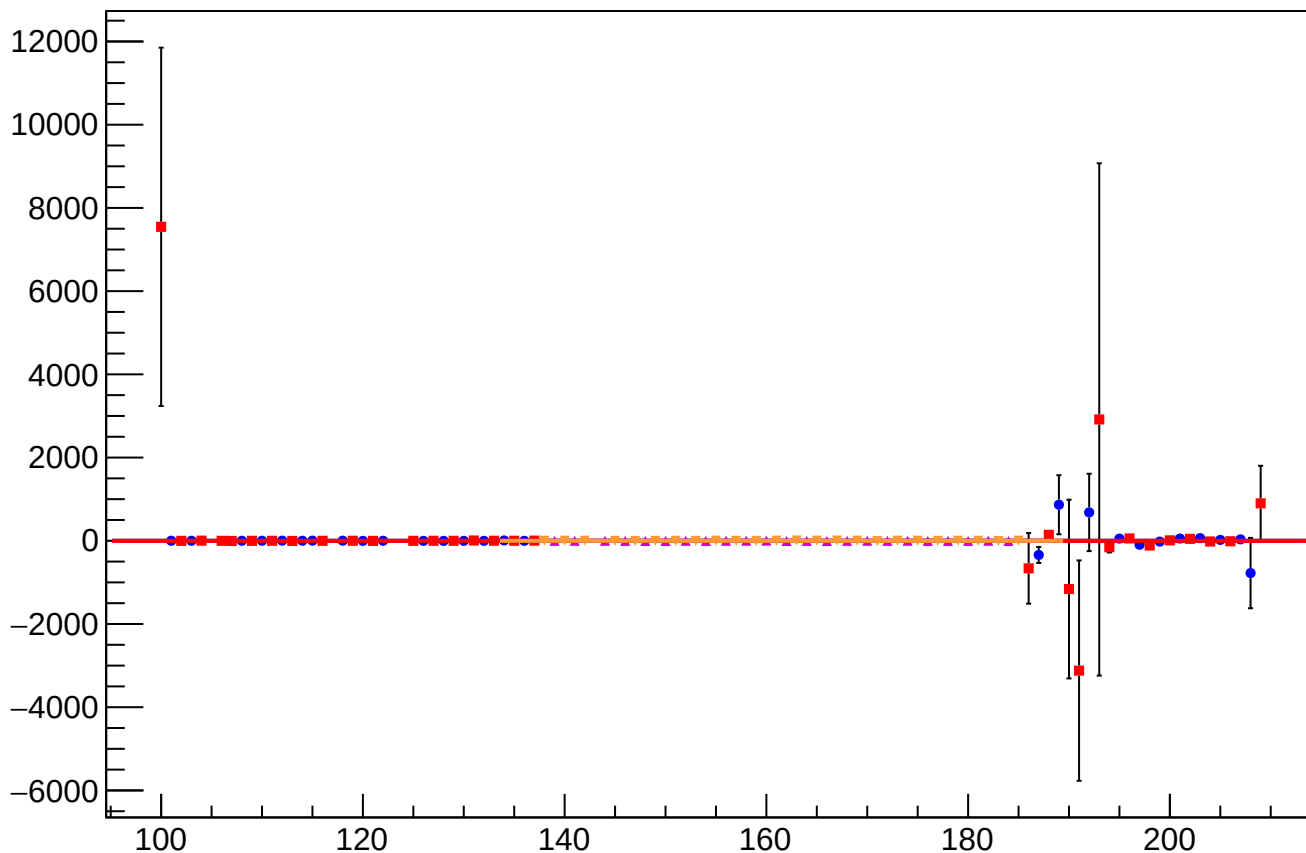
Right: 97.150 $\pm$ 0.018 χ^2 /NDF: 26940009.8/57

In: 103.730 $\pm$ 0.015 χ^2 /NDF: 15180988.4/49

Out: 104.742 $\pm$ 0.015 χ^2 /NDF: 14907895.0/54

All: 104.237 $\pm$ 0.011 χ^2 /NDF: 30091120.0/10

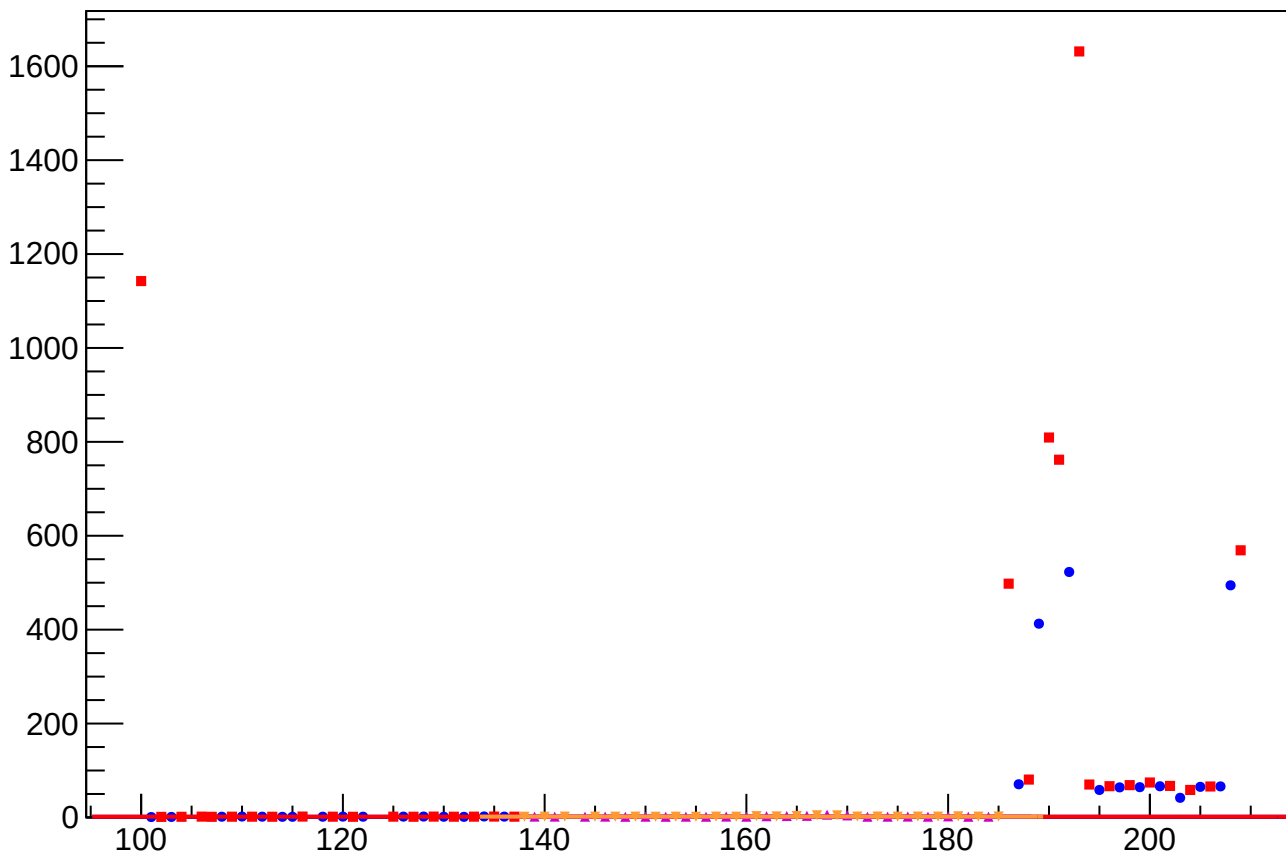
asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.397 ± 0.617 $\chi^2/\text{NDF}: 20.3/26$
Left Out: -0.534 ± 0.475 $\chi^2/\text{NDF}: 30.5/23$
Right Out: -0.346 ± 0.644 $\chi^2/\text{NDF}: 30.7/30$
Left In: -0.067 ± 0.485 $\chi^2/\text{NDF}: 25.0/22$

Left: -0.306 ± 0.339 $\chi^2/\text{NDF}: 56.0/46$
Right: 0.041 ± 0.445 $\chi^2/\text{NDF}: 51.6/57$
In: 0.110 ± 0.381 $\chi^2/\text{NDF}: 45.6/49$
Out: -0.468 ± 0.382 $\chi^2/\text{NDF}: 61.3/54$
All: -0.178 ± 0.270 $\chi^2/\text{NDF}: 108.0/104$

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.450+/-0.000 χ^2/NDF : 11767821.5/26

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

Right Out: 1.585+/-0.000 χ^2/NDF : 11733824.8/30

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

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

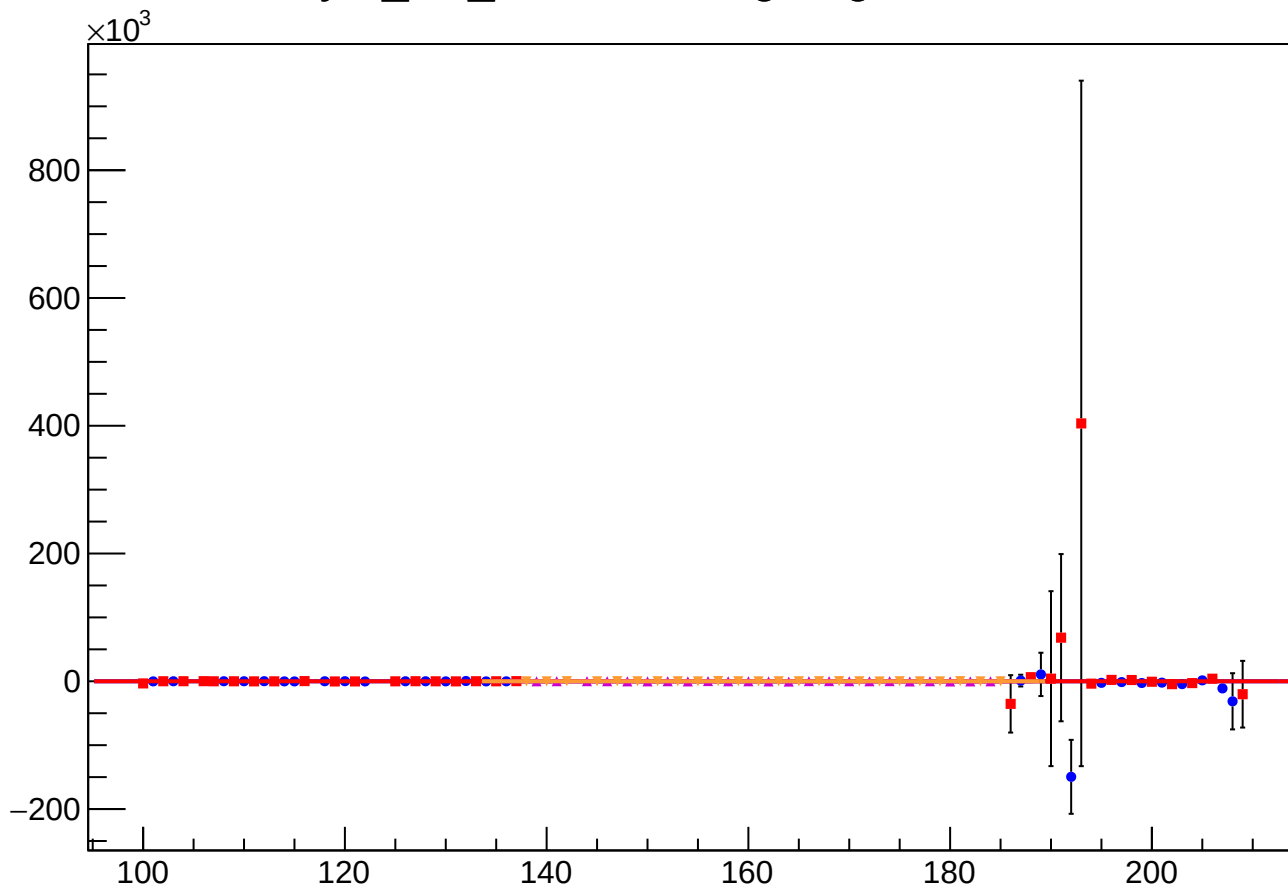
Right: 1.514+/-0.000 χ^2/NDF : 23547281.9/57

In: 1.668+/-0.000 χ^2/NDF : 14093062.3/49

Out: 1.705+/-0.000 χ^2/NDF : 13442454.5/54

All: 1.687+/-0.000 χ^2/NDF : 27545170.6/104

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.091 ± 36.771 χ^2/NDF : 32.3/26

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

Right Out: 1.585 ± 36.757 χ^2/NDF : 19.0/30

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

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

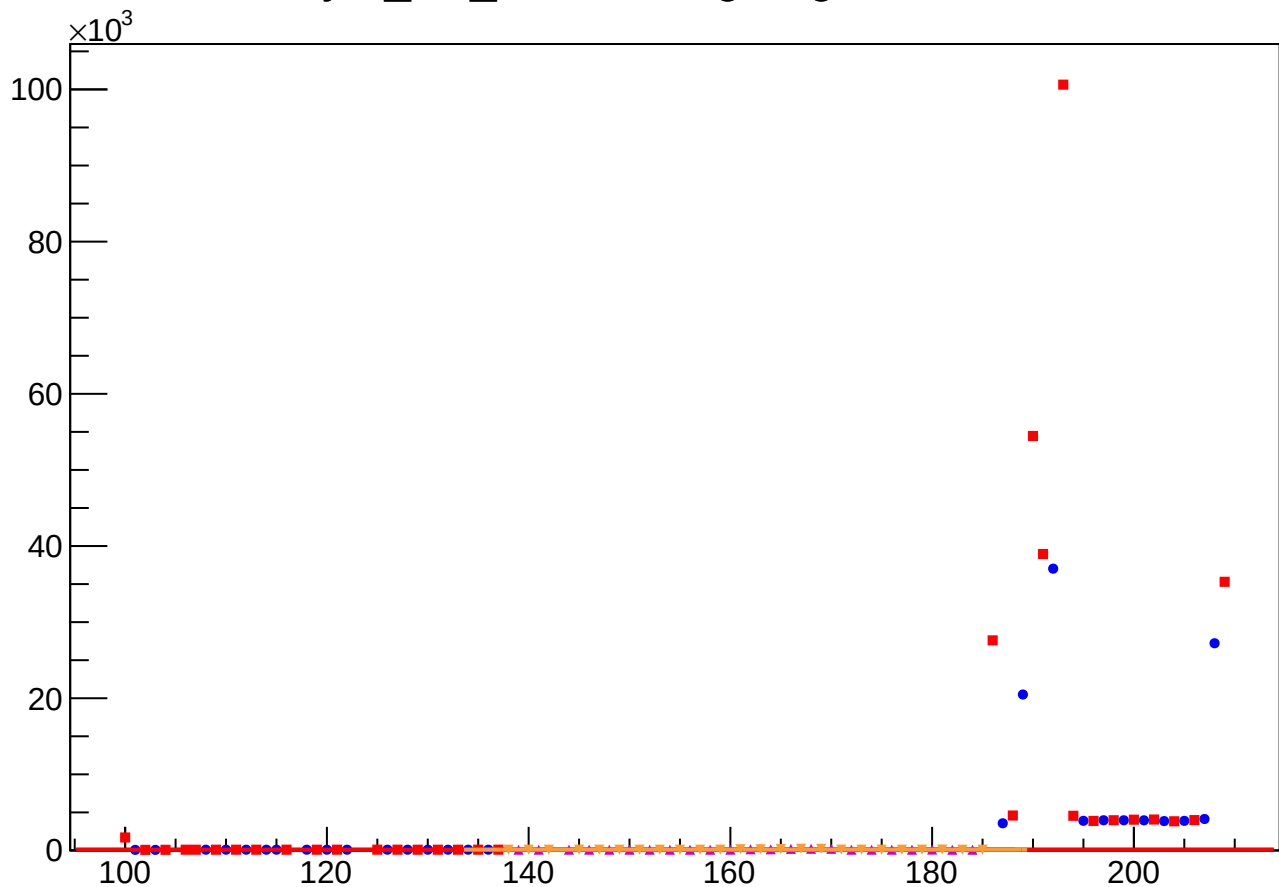
Right: -0.252 ± 25.996 χ^2/NDF : 51.3/57

In: 16.014 ± 21.419 χ^2/NDF : 68.3/49

Out: 9.107 ± 21.372 χ^2/NDF : 54.8/54

All: 12.552 ± 15.129 χ^2/NDF : 123.2/104

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.079 $\pm$ 0.026 χ^2 /NDF: 13557970.1/26

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

Right Out: 98.255 $\pm$ 0.026 χ^2 /NDF: 13383770.7/30

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

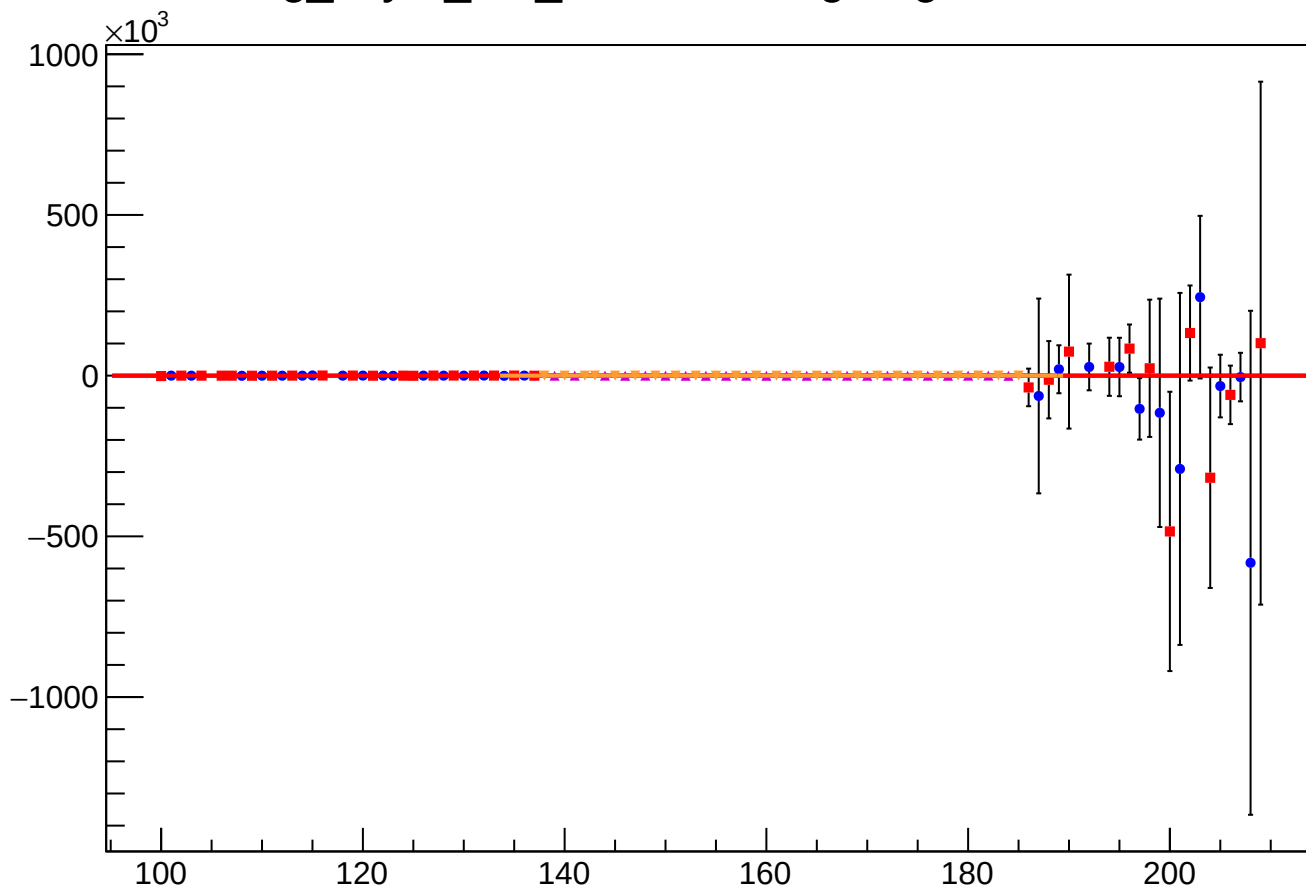
Right: 97.167 $\pm$ 0.018 χ^2 /NDF: 26945245.0/57

In: 103.759 $\pm$ 0.015 χ^2 /NDF: 15182363.8/49

Out: 104.765 $\pm$ 0.015 χ^2 /NDF: 14914923.1/54

All: 104.263 $\pm$ 0.011 χ^2 /NDF: 30099499.9/100

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.804 $\pm$ 46.841 χ^2 /NDF: 17.9/27

Left Out: -12.829 $\pm$ 32.063 χ^2 /NDF:12.0/24

Right Out: 53.389 $\pm$ 47.775 χ^2 /NDF: 20.6/29

Left In: -65.335 $\pm$ 32.944 χ^2 /NDF:19.3/22

Left: -38.371 $\pm$ 22.977 χ^2 /NDF: 32.6/47

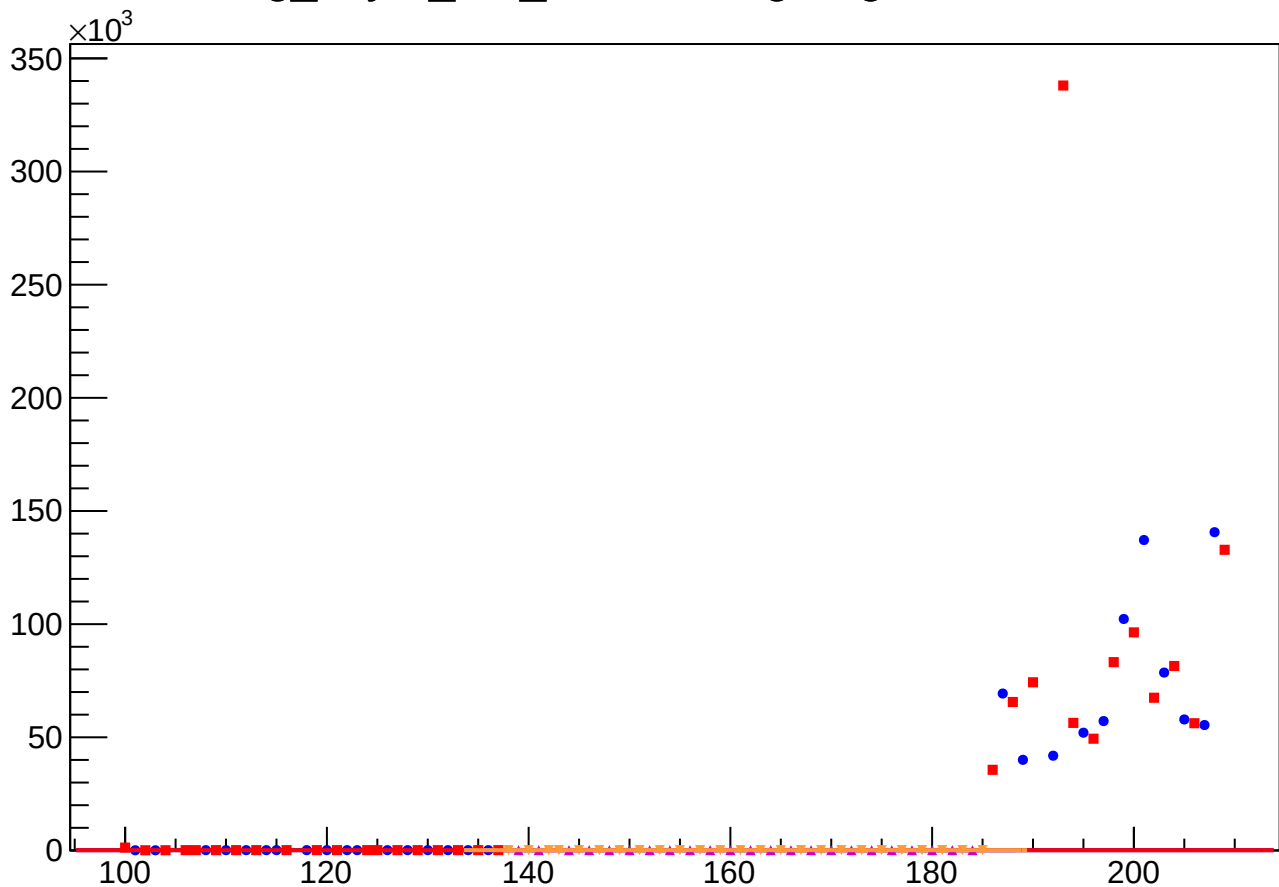
Right: 12.501 $\pm$ 33.447 χ^2 /NDF: 40.0/57

In: -52.583 $\pm$ 26.947 χ^2 /NDF:37.7/50

Out: 7.734 $\pm$ 26.623 χ^2 /NDF:34.0/54

All: -22.060 $\pm$ 18.939 χ^2 /NDF: 74.1/105

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.878 $\pm$ 0.033 χ^2 /NDF: 6498890.3/27

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

Right Out: 124.838 $\pm$ 0.034 χ^2 /NDF: 6233058.8/30

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

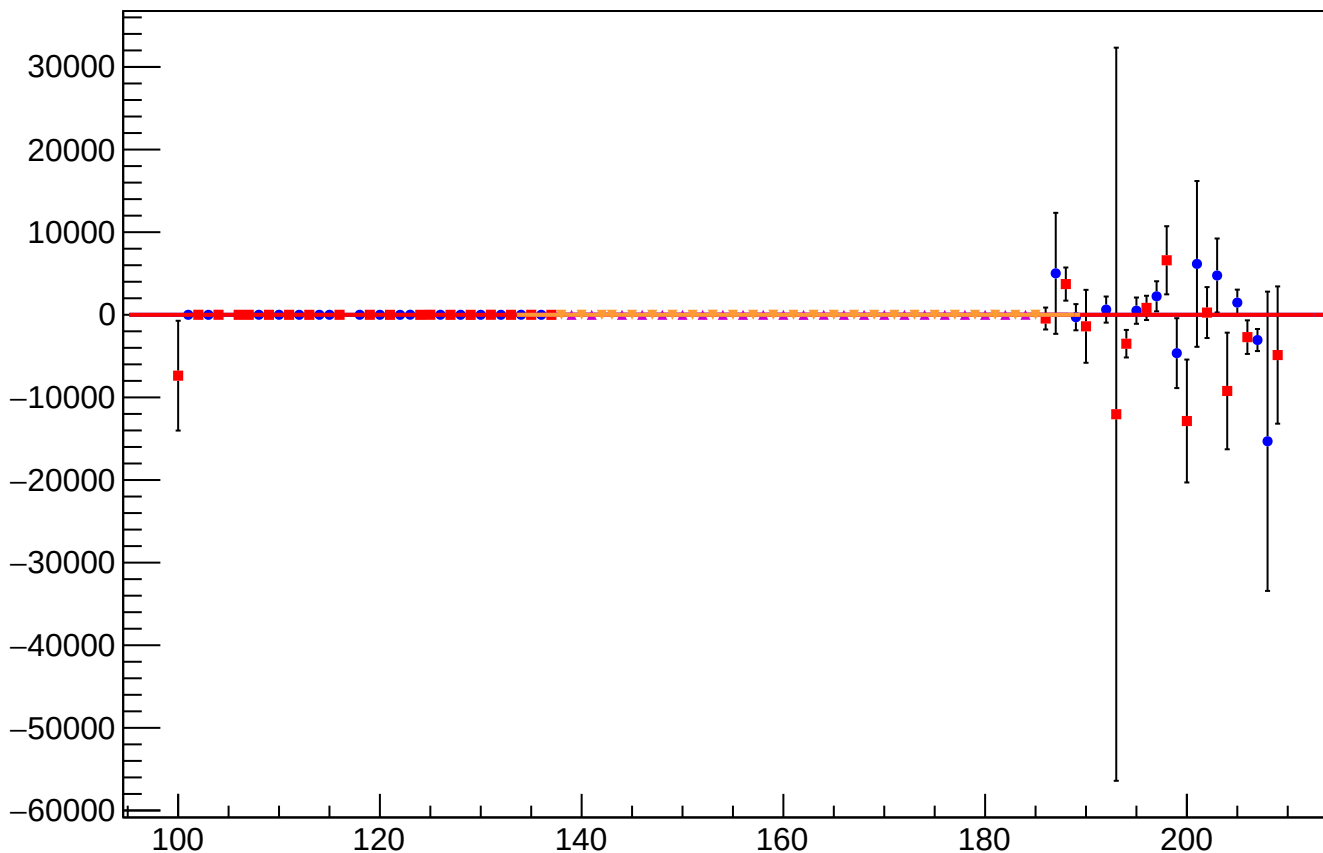
Right: 121.289 $\pm$ 0.024 χ^2 /NDF: 12753591.2/58

In: 131.210 $\pm$ 0.019 χ^2 /NDF: 6741514.4/50

Out: 133.814 $\pm$ 0.019 χ^2 /NDF: 6335900.4/55

All: 132.527 $\pm$ 0.013 χ^2 /NDF: 13086865.0/100

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719+/-0.810 χ^2/NDF : 24.0/27

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

Right Out: -0.639+/-0.852 χ^2/NDF : 32.5/30

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

Left: 0.391+/-0.407 χ^2/NDF : 49.7/47

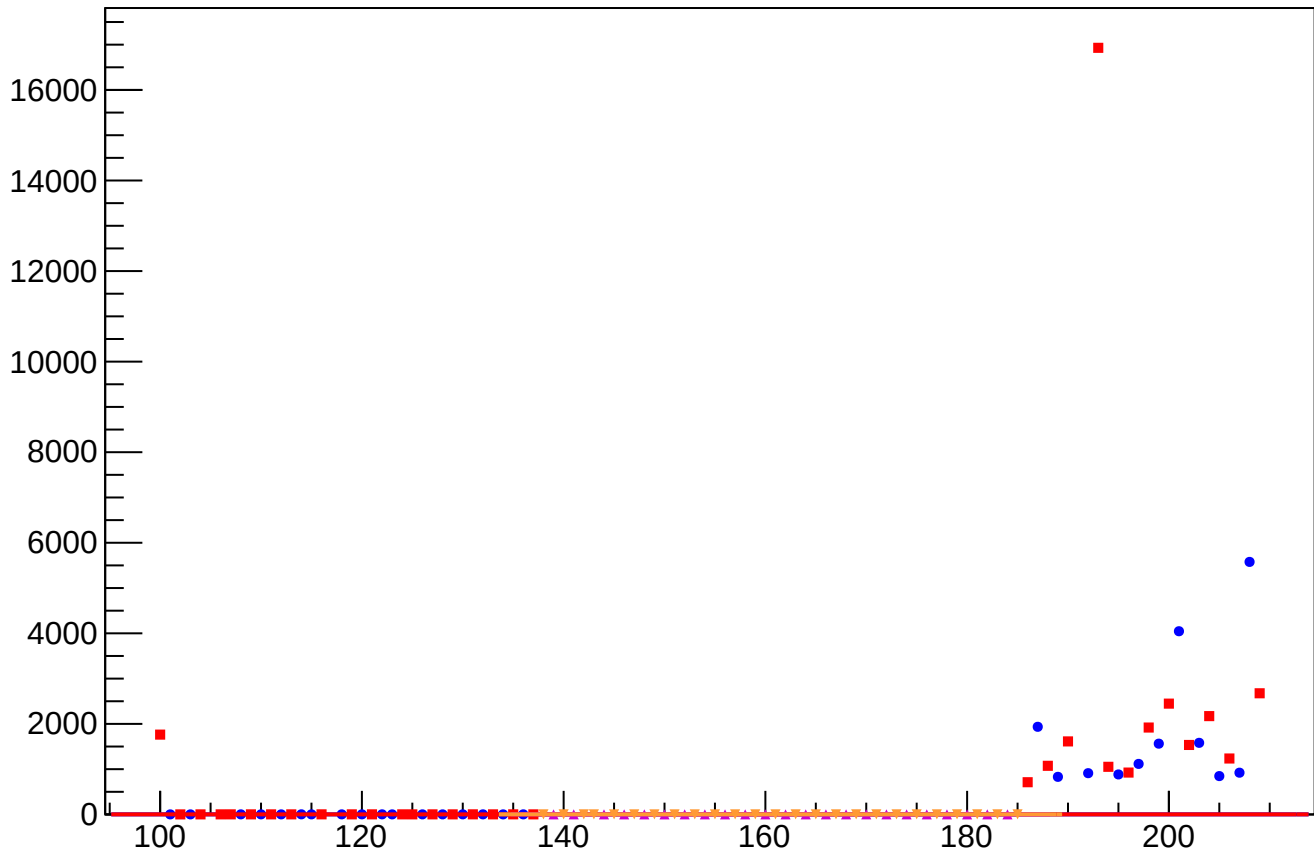
Right: -0.681+/-0.587 χ^2/NDF : 56.5/58

In: -0.052+/-0.471 χ^2/NDF :45.7/50

Out: 0.139+/-0.475 χ^2/NDF :62.7/55

All: 0.043+/-0.334 χ^2/NDF : 108.5/106

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867+/-0.001 χ^2/NDF : 5769015.2/27

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

Right Out: 2.065+/-0.001 χ^2/NDF : 6088387.2/30

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

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

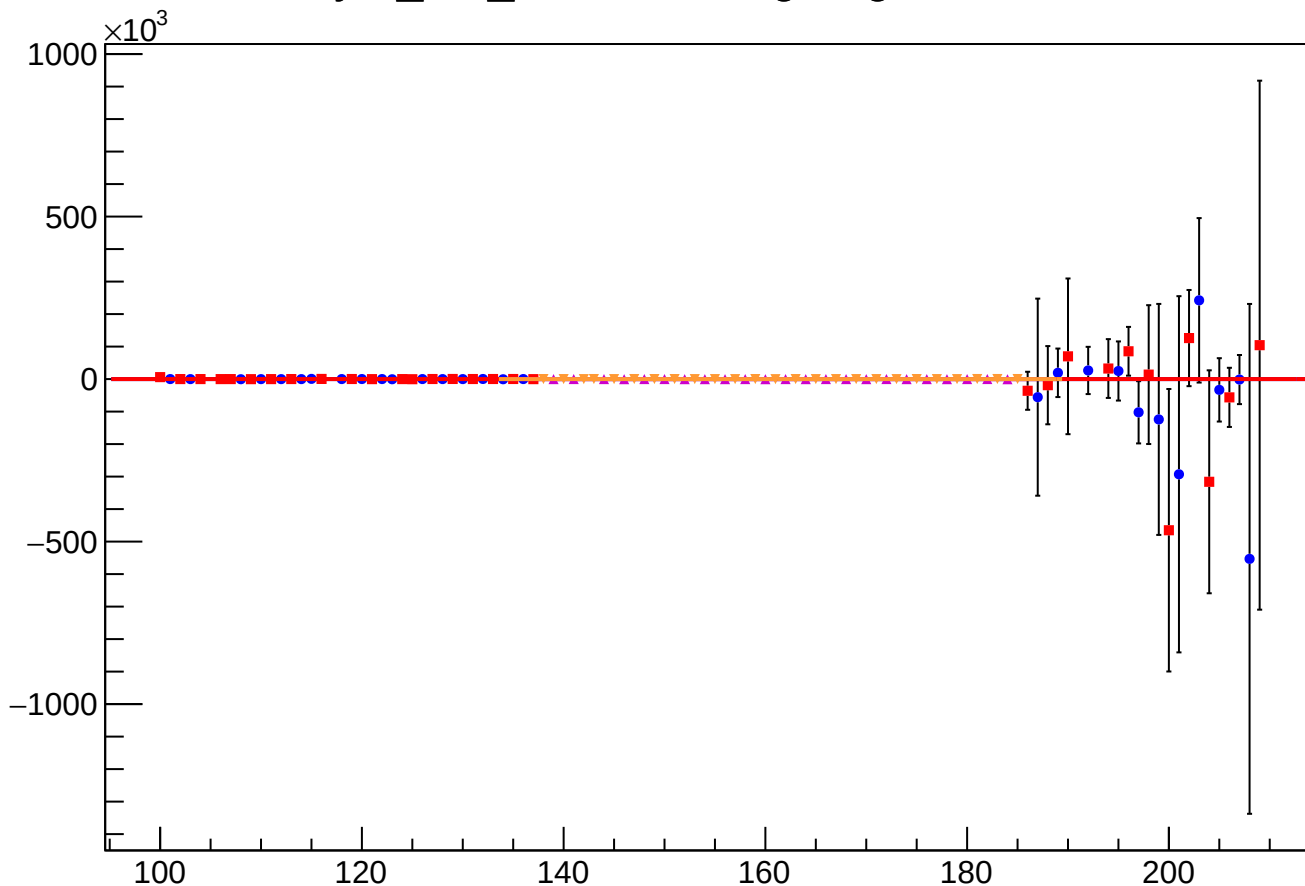
Right: 1.961+/-0.000 χ^2/NDF : 11914275.1/58

In: 2.083+/-0.000 χ^2/NDF : 6494289.0/50

Out: 2.201+/-0.000 χ^2/NDF : 6536801.4/55

All: 2.141+/-0.000 χ^2/NDF : 13093462.7/106

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.066+/-46.854 χ^2/NDF : 17.9/27

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

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

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

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

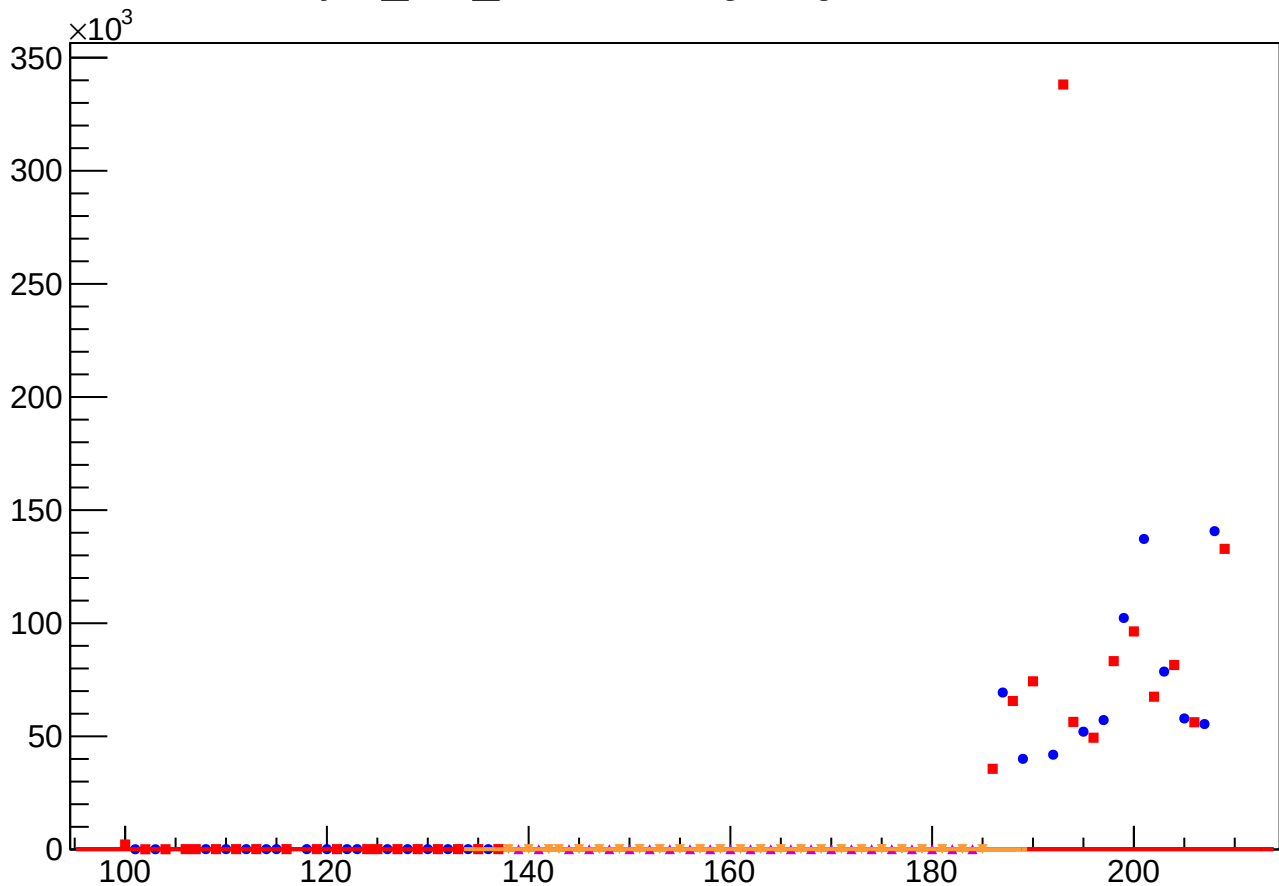
Right: 13.829+/-33.456 χ^2/NDF : 40.4/57

In: -51.939+/-26.954 χ^2/NDF : 37.7/50

Out: 7.632+/-26.631 χ^2/NDF : 34.3/54

All: -21.794+/-18.944 χ^2/NDF : 74.5/105

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.910 $\pm$ 0.033 χ^2 /NDF: 6499024.9/27

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

Right Out: 124.827 $\pm$ 0.034 χ^2 /NDF: 6243728.8/30

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

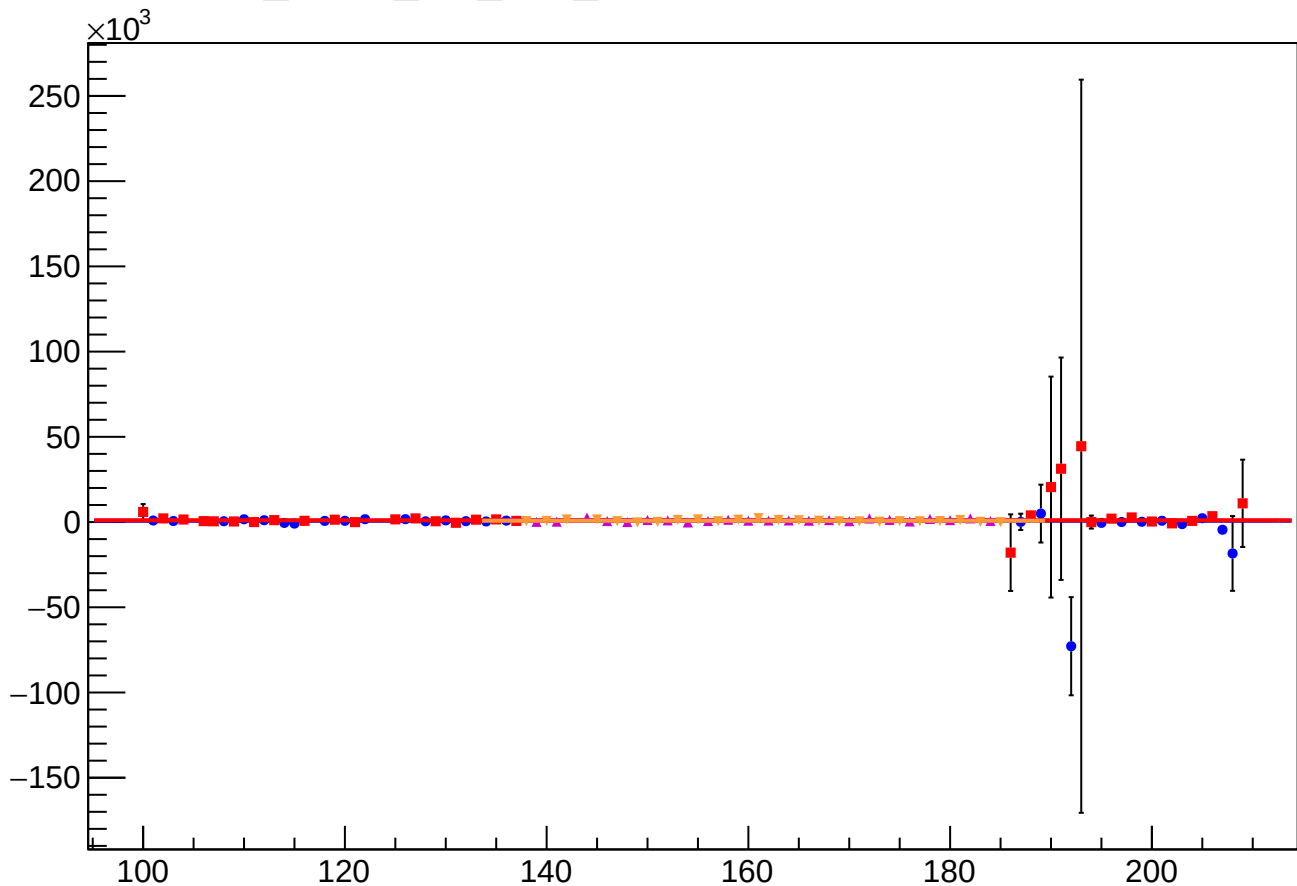
Right: 121.300 $\pm$ 0.024 χ^2 /NDF: 12764117.9/58

In: 131.246 $\pm$ 0.019 χ^2 /NDF:6741684.4/50

Out: 133.837 $\pm$ 0.019 χ^2 /NDF:6347290.6/55

All: 132.557 $\pm$ 0.013 χ^2 /NDF: 13098325.0/10

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 765.850+/-209.869 χ^2/NDF : 19.6/26

Left Out: 784.371+/-134.054 χ^2/NDF : 19.2/23

Right Out: 1037.729+/-207.285 χ^2/NDF : 18.9/30

Left In: 974.402+/-134.932 χ^2/NDF : 27.4/22

Left: 878.766+/-95.099 χ^2/NDF : 47.6/46

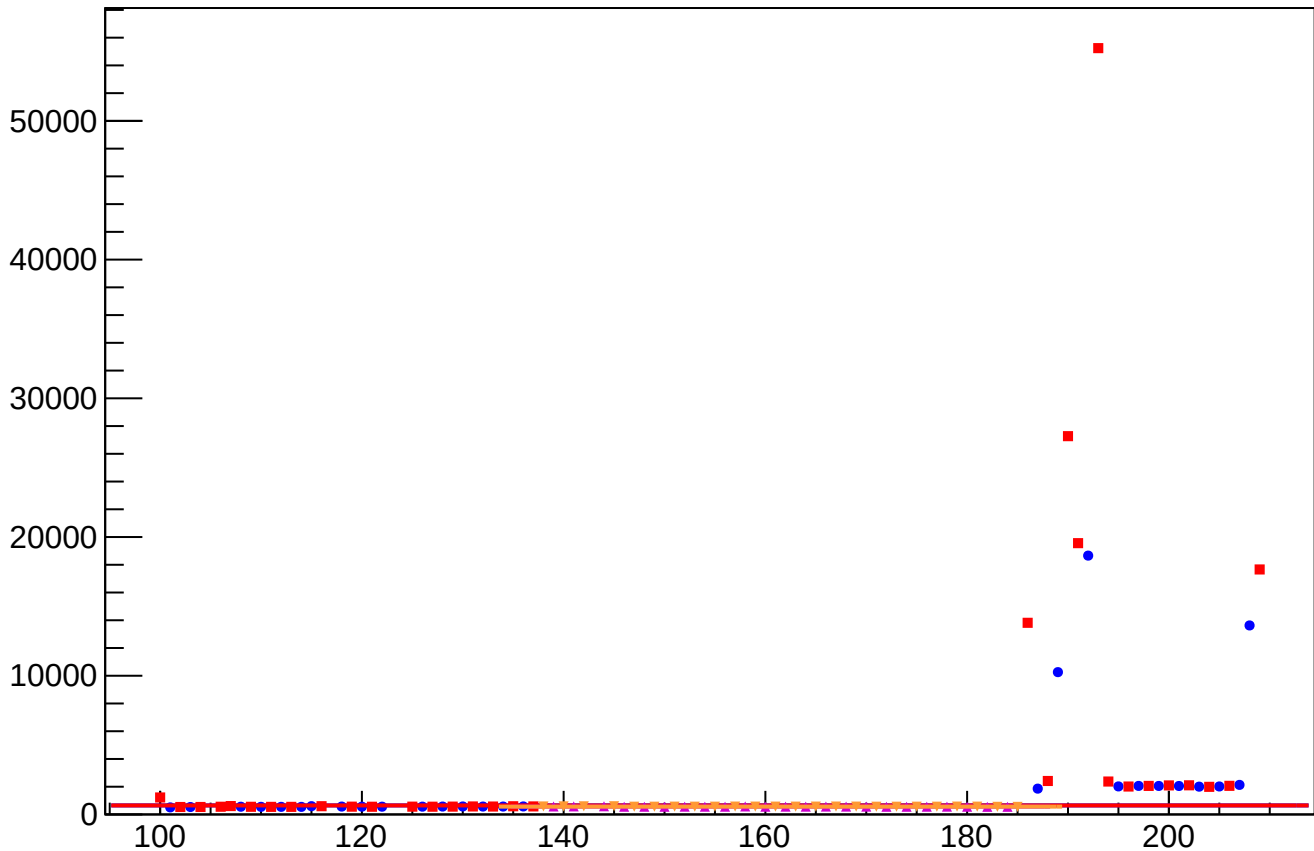
Right: 903.473+/-147.478 χ^2/NDF : 39.3/57

In: 913.407+/-113.498 χ^2/NDF : 47.7/49

Out: 859.086+/-112.565 χ^2/NDF : 39.1/54

All: 886.022+/-79.923 χ^2/NDF : 87.0/104

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 651.814+/-0.148 χ^2/NDF : 7932873.0/26

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

Right Out: 650.152+/-0.147 χ^2/NDF : 8071030.6/30

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

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

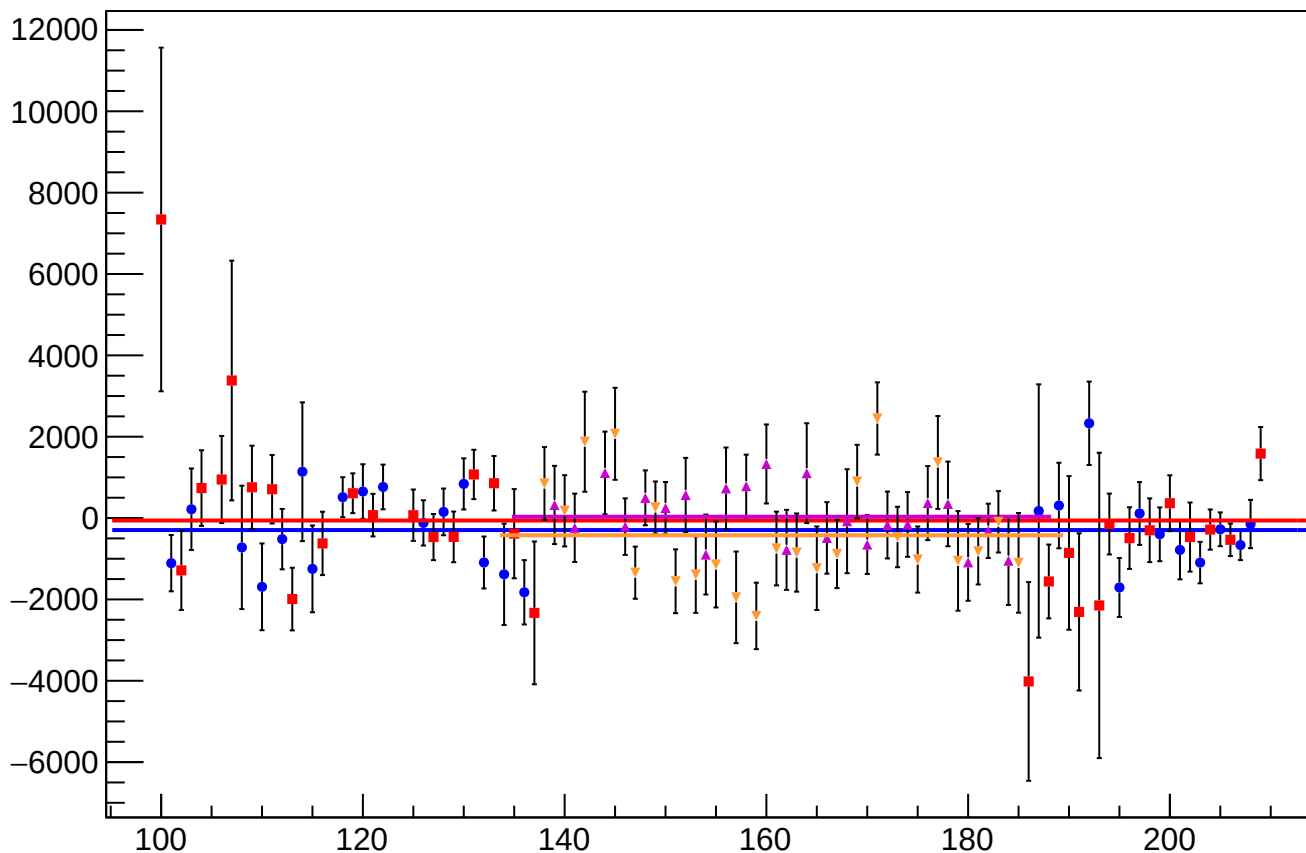
Right: 650.973+/-0.104 χ^2/NDF : 16003967.1/57

In: 589.954+/-0.080 χ^2/NDF : 8187673.9/49

Out: 589.507+/-0.080 χ^2/NDF : 8323414.4/54

All: 589.729+/-0.057 χ^2/NDF : 16511104.0/100

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -295.149 $\pm$ 128.986 χ^2/NDF : 38.5/26

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

Right Out: -60.408 $\pm$ 135.507 χ^2/NDF : 42.2/30

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

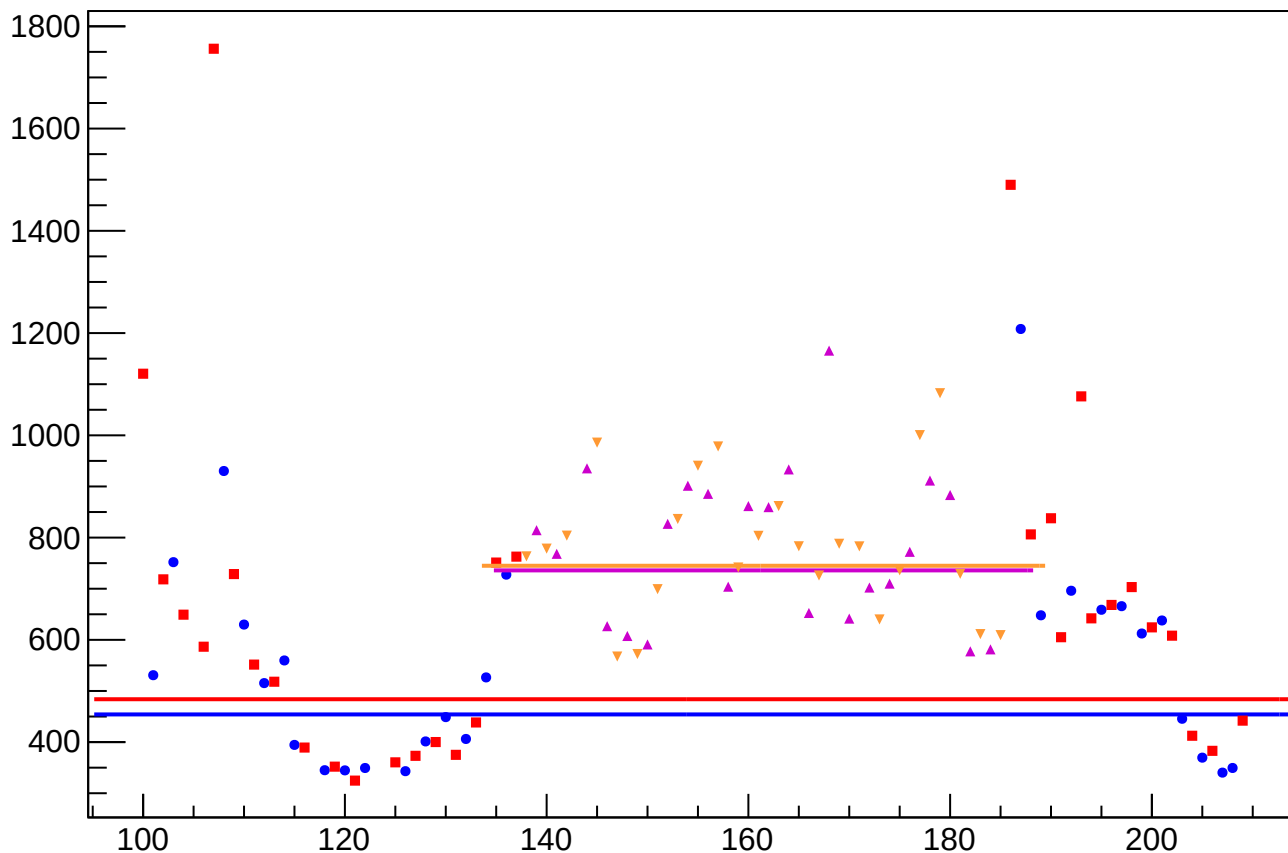
Right: -183.562 $\pm$ 93.427 χ^2/NDF : 82.2/57

In: -183.548 $\pm$ 104.733 χ^2/NDF : 52.8/49

Out: -190.888 $\pm$ 108.392 χ^2/NDF : 87.9/54

All: -187.092 $\pm$ 75.318 χ^2/NDF : 140.8/104

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 454.132+/-0.091 χ^2/NDF : 2242982.7/26

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

Right Out: 483.848+/-0.096 χ^2/NDF : 2927990.0/30

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

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

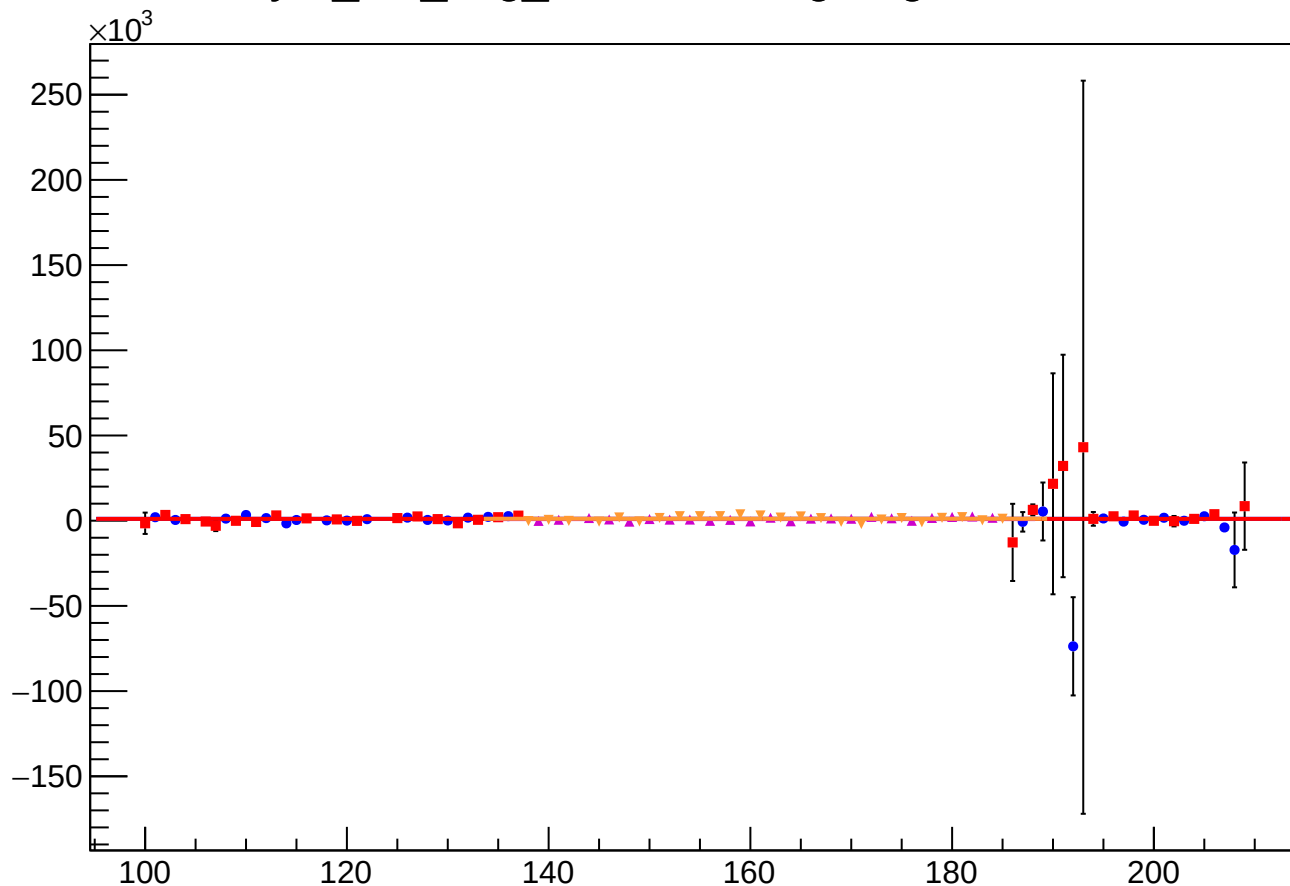
Right: 468.257+/-0.066 χ^2/NDF : 5221432.1/57

In: 550.114+/-0.074 χ^2/NDF : 6598882.4/49

Out: 577.874+/-0.077 χ^2/NDF : 6610445.7/54

All: 563.518+/-0.053 χ^2/NDF : 13277172.0/10

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1088.895 $\pm$ 280.628 χ^2 /NDF: 25.3/26

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

Right Out: 1060.055 $\pm$ 280.398 χ^2 /NDF: 29.9/30

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

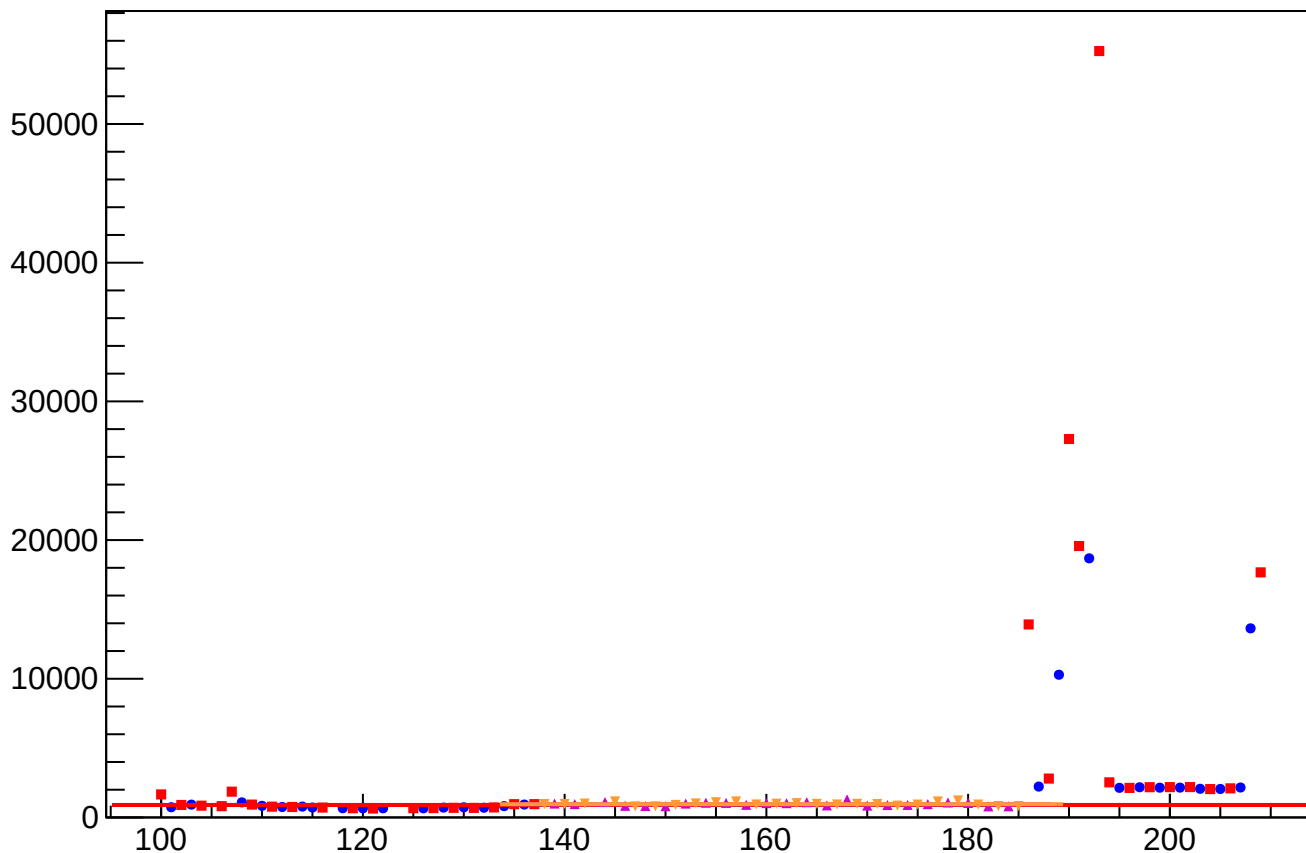
Right: 1074.463 $\pm$ 198.353 χ^2 /NDF: 55.2/57

In: 1000.329 $\pm$ 177.109 χ^2 /NDF: 40.2/49

Out: 1106.802 $\pm$ 177.288 χ^2 /NDF: 68.8/54

All: 1053.512 $\pm$ 125.298 χ^2 /NDF: 109.2/104

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 899.348+/-0.198 χ^2/NDF : 6669031.5/26

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

Right Out: 899.780+/-0.198 χ^2/NDF : 7200905.2/30

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

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

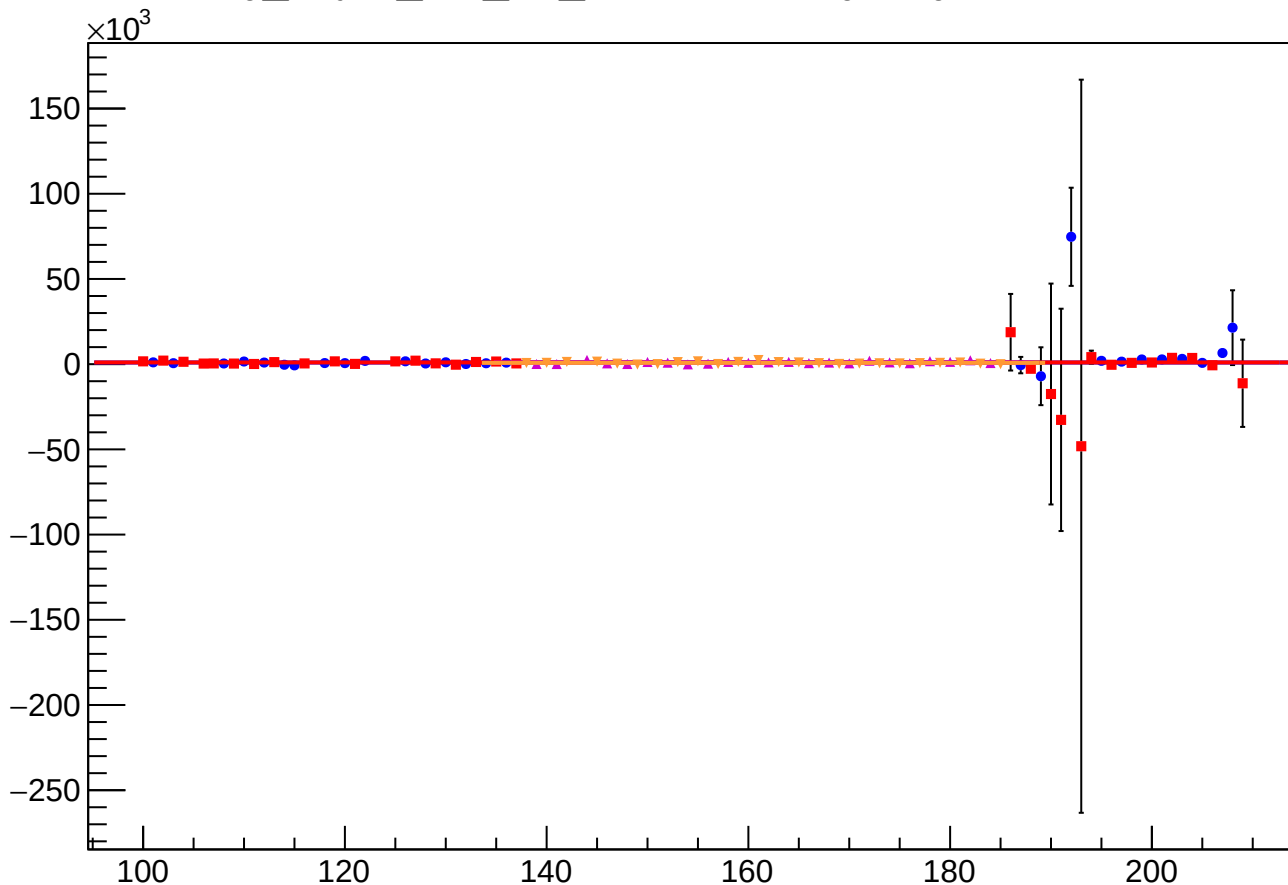
Right: 899.565+/-0.140 χ^2/NDF : 13869939.1/57

In: 927.763+/-0.125 χ^2/NDF : 7204476.4/49

Out: 932.525+/-0.125 χ^2/NDF : 7706492.8/54

All: 930.141+/-0.089 χ^2/NDF : 14911691.3/10

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 960.489 $\pm$ 209.738 χ^2 /NDF: 22.3/26

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

Right Out: 1017.230 $\pm$ 202.671 χ^2 /NDF: 19.0/30

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

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

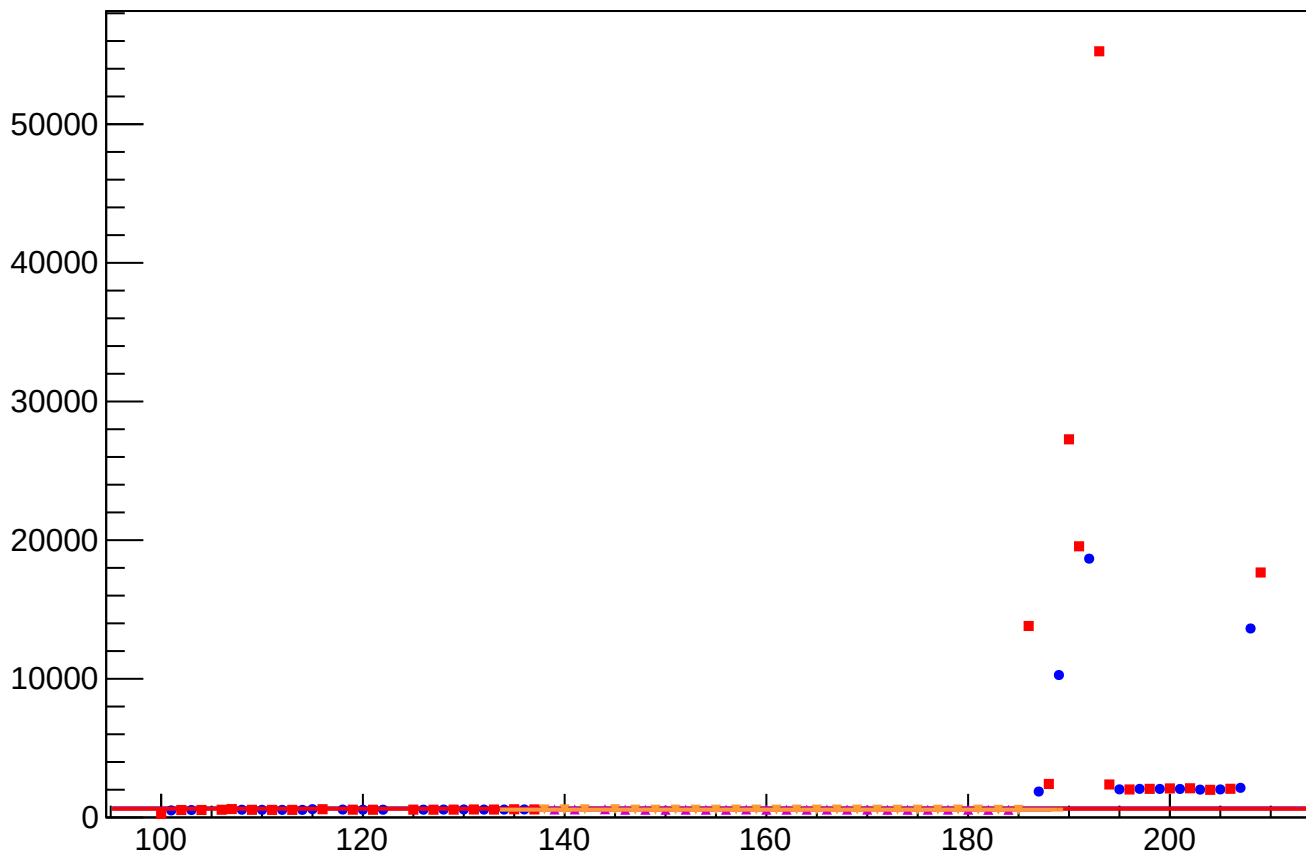
Right: 989.832 $\pm$ 145.744 χ^2 /NDF: 41.4/57

In: 959.093 $\pm$ 113.413 χ^2 /NDF: 49.2/49

Out: 836.556 $\pm$ 111.744 χ^2 /NDF: 41.2/54

All: 896.916 $\pm$ 79.599 χ^2 /NDF: 91.0/104

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 651.190+/-0.148 χ^2/NDF : 7946095.8/26

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

Right Out: 630.776+/-0.143 χ^2/NDF : 8374555.9/30

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

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

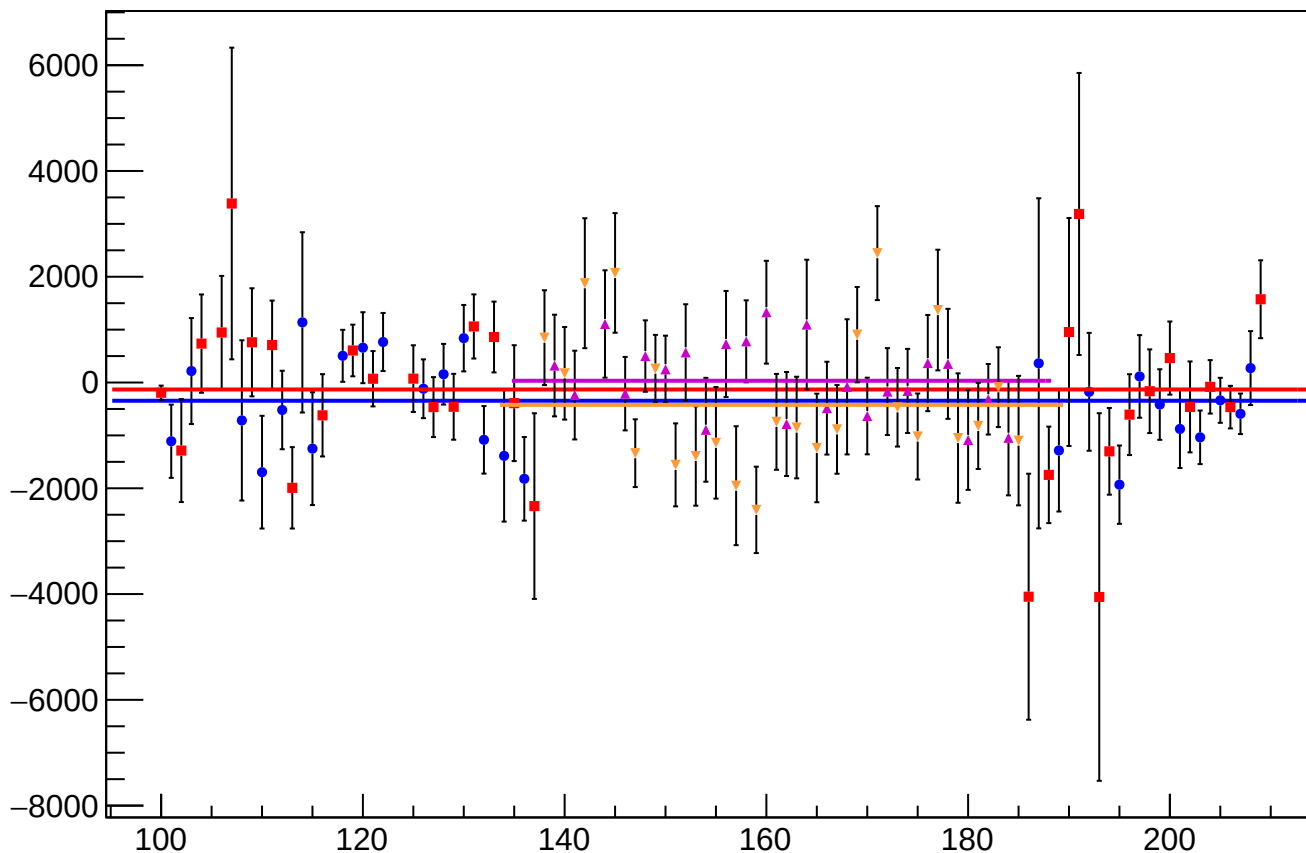
Right: 640.633+/-0.103 χ^2/NDF : 16330449.8/57

In: 589.447+/-0.080 χ^2/NDF : 8200238.8/49

Out: 584.073+/-0.079 χ^2/NDF : 8536687.8/54

All: 586.720+/-0.056 χ^2/NDF : 16739205.5/10

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -344.570 ± 131.204 $\chi^2/\text{NDF}: 33.3/26$

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

Right Out: -131.578 ± 96.240 $\chi^2/\text{NDF}: 42.2/30$

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

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

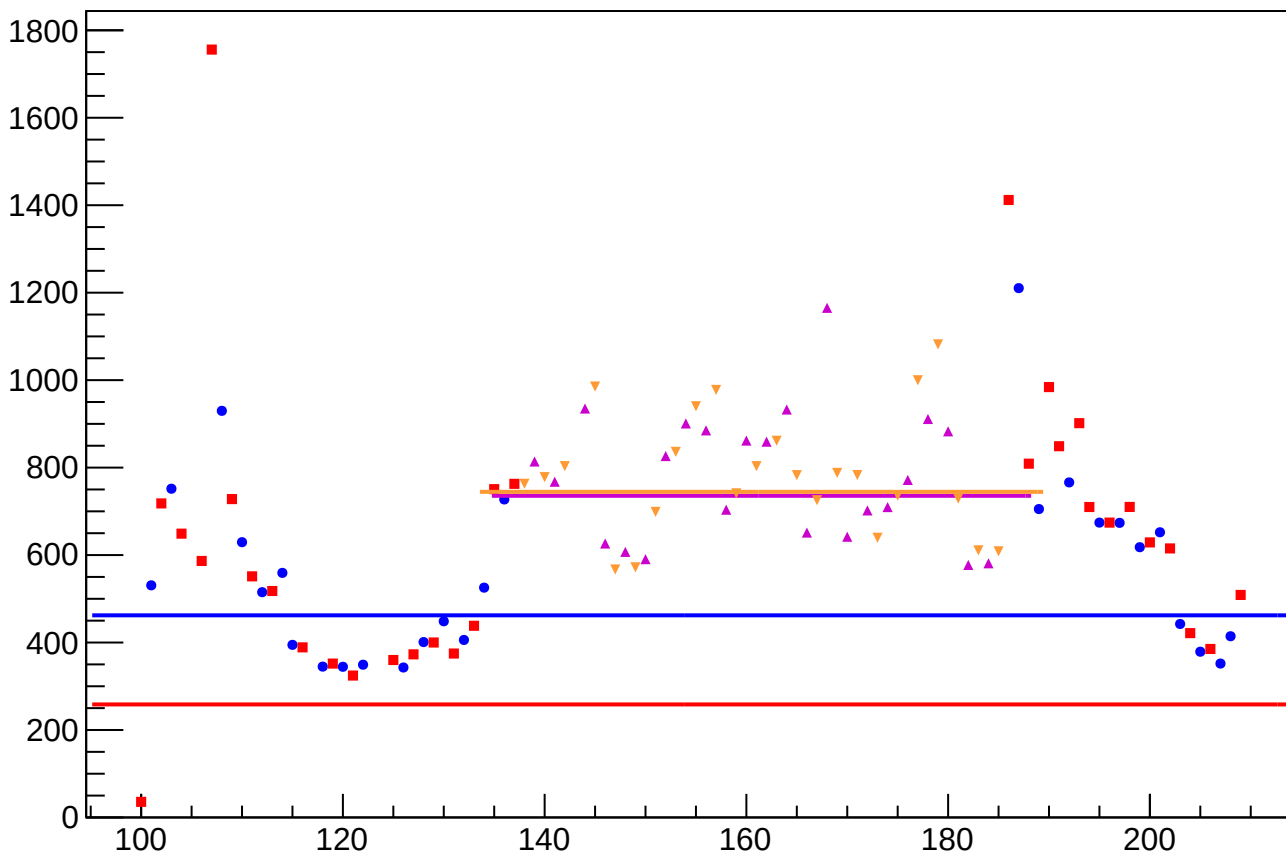
Right: -206.088 ± 77.602 $\chi^2/\text{NDF}: 77.2/57$

In: -212.838 ± 105.894 $\chi^2/\text{NDF}: 48.3/49$

Out: -195.919 ± 84.926 $\chi^2/\text{NDF}: 87.5/54$

All: -202.542 ± 66.252 $\chi^2/\text{NDF}: 135.8/104$

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 462.218 $\pm$ 0.093 χ^2/NDF : 2230363.3/26

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

Right Out: 258.431 $\pm$ 0.068 χ^2/NDF : 14049509.1/30

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

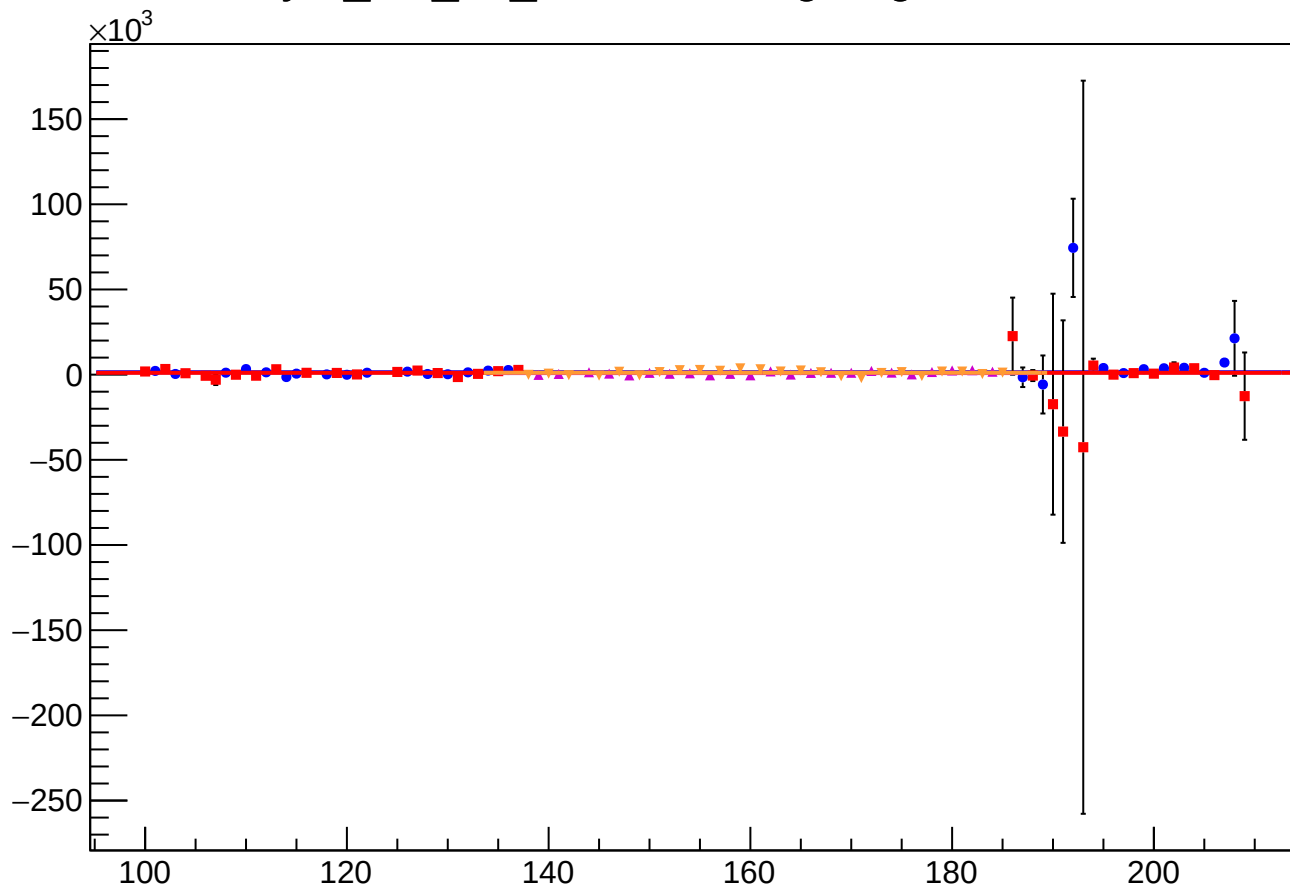
Right: 329.720 $\pm$ 0.055 χ^2/NDF : 19416906.5/57

In: 557.497 $\pm$ 0.075 χ^2/NDF : 6361199.5/49

Out: 366.019 $\pm$ 0.060 χ^2/NDF : 26353556.5/54

All: 440.968 $\pm$ 0.047 χ^2/NDF : 36694328.3/10

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1412.557 $\pm$ 280.532 χ^2 /NDF: 29.7/26

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

Right Out: 1074.043 $\pm$ 269.498 χ^2 /NDF: 28.3/30

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

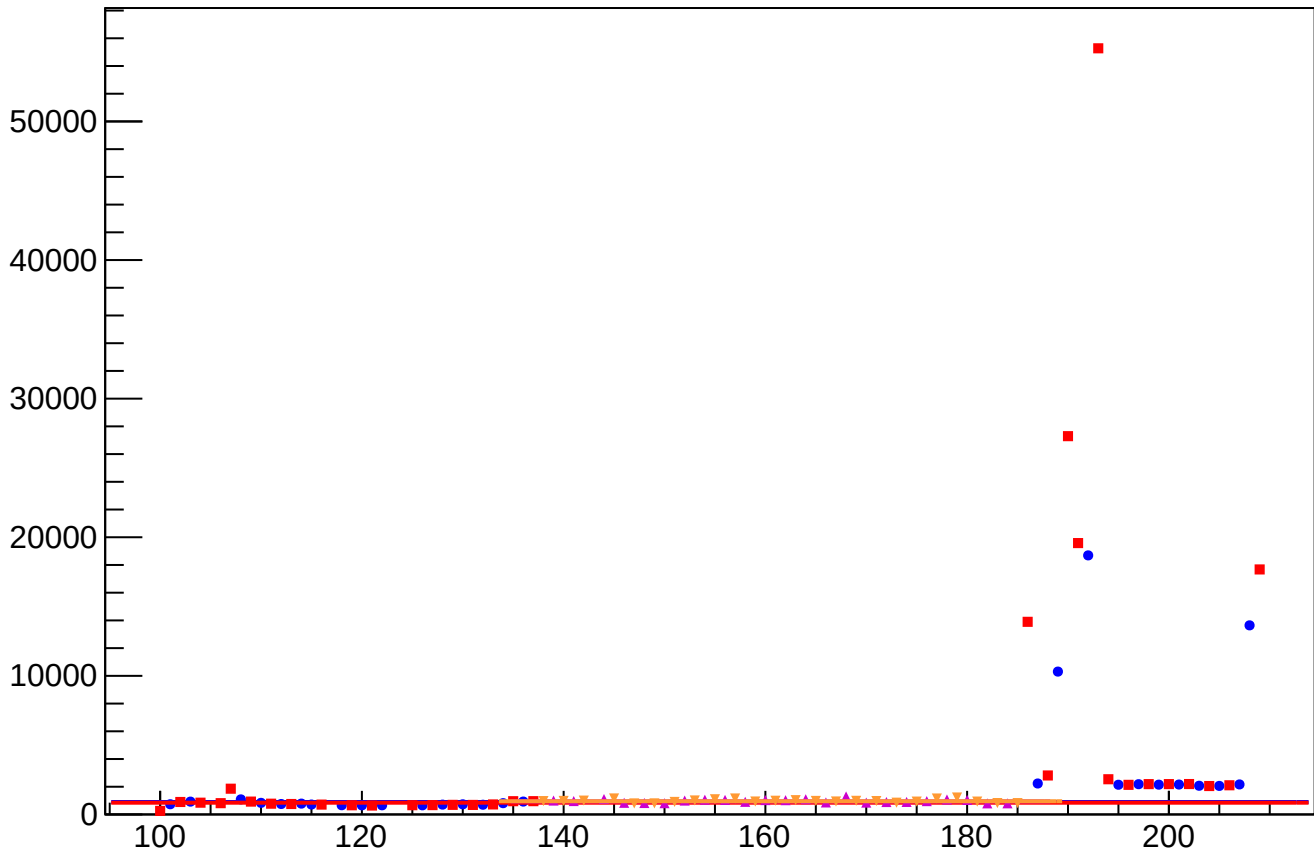
Right: 1236.512 $\pm$ 194.348 χ^2 /NDF: 58.8/57

In: 1119.917 $\pm$ 177.025 χ^2 /NDF:46.6/49

Out: 1092.124 $\pm$ 174.375 χ^2 /NDF:66.6/54

All: 1105.811 $\pm$ 124.228 χ^2 /NDF: 113.2/104

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 898.610 $\pm$ 0.198 χ^2 /NDF: 6688881.5/26

Left Out: 953.781 $\pm$ 0.162 χ^2 /NDF: 460211.0/23

Right Out: 847.973 $\pm$ 0.191 χ^2 /NDF: 7996696.5/30

Left In: 946.041 $\pm$ 0.161 χ^2 /NDF: 501442.7/22

Left: 949.902 $\pm$ 0.114 χ^2 /NDF: 962801.6/46

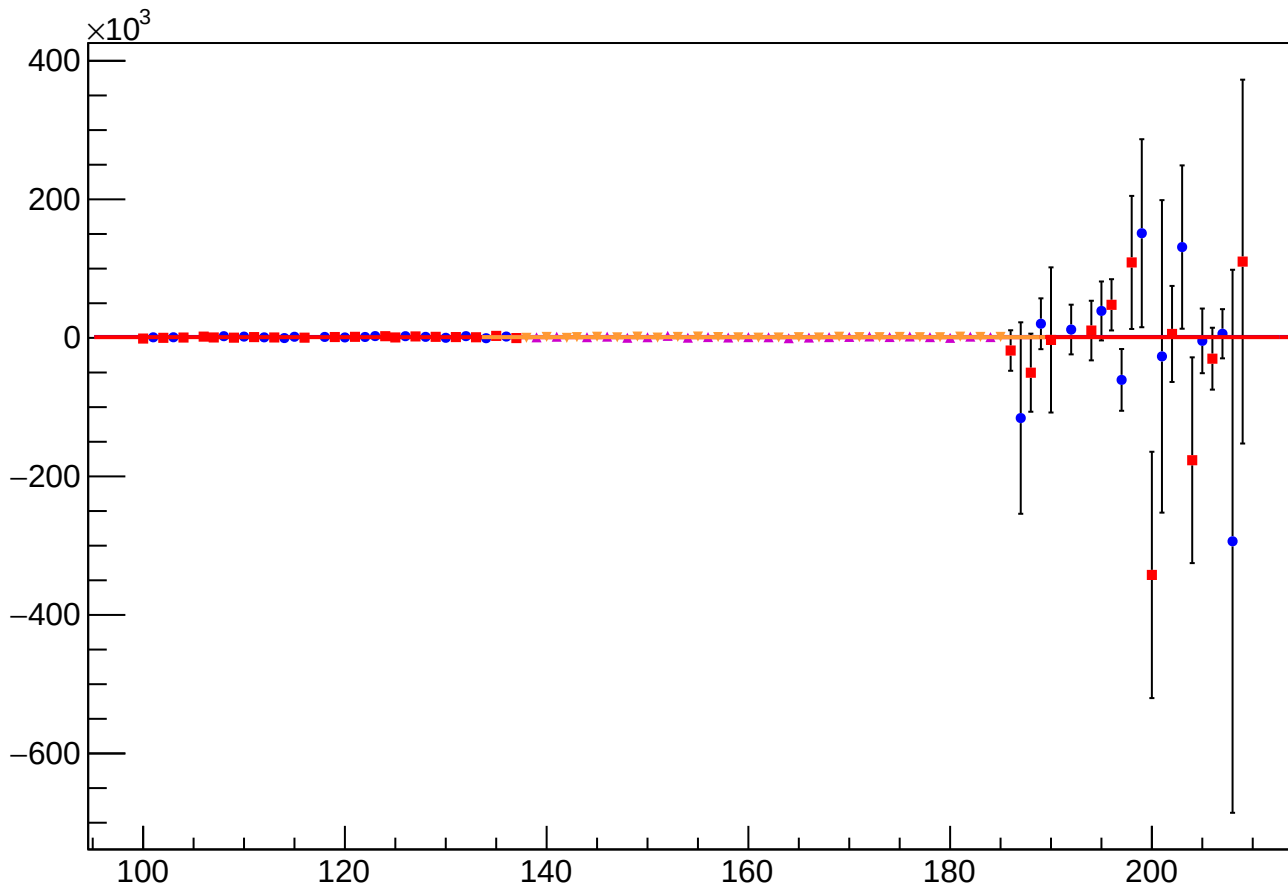
Right: 872.276 $\pm$ 0.137 χ^2 /NDF: 14719465.4/57

In: 927.154 $\pm$ 0.125 χ^2 /NDF: 7224730.7/49

Out: 909.484 $\pm$ 0.123 χ^2 /NDF: 8636127.5/54

All: 918.186 $\pm$ 0.088 χ^2 /NDF: 15870971.1/10

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.102+/-218.579 χ^2/NDF : 19.6/27

Left Out: 1073.626+/-129.690 χ^2/NDF : 15.1/24

Right Out: 1039.600+/-212.062 χ^2/NDF : 23.5/29

Left In: 1123.857+/-133.163 χ^2/NDF : 30.0/22

Left: 1098.077+/-92.908 χ^2/NDF : 45.2/47

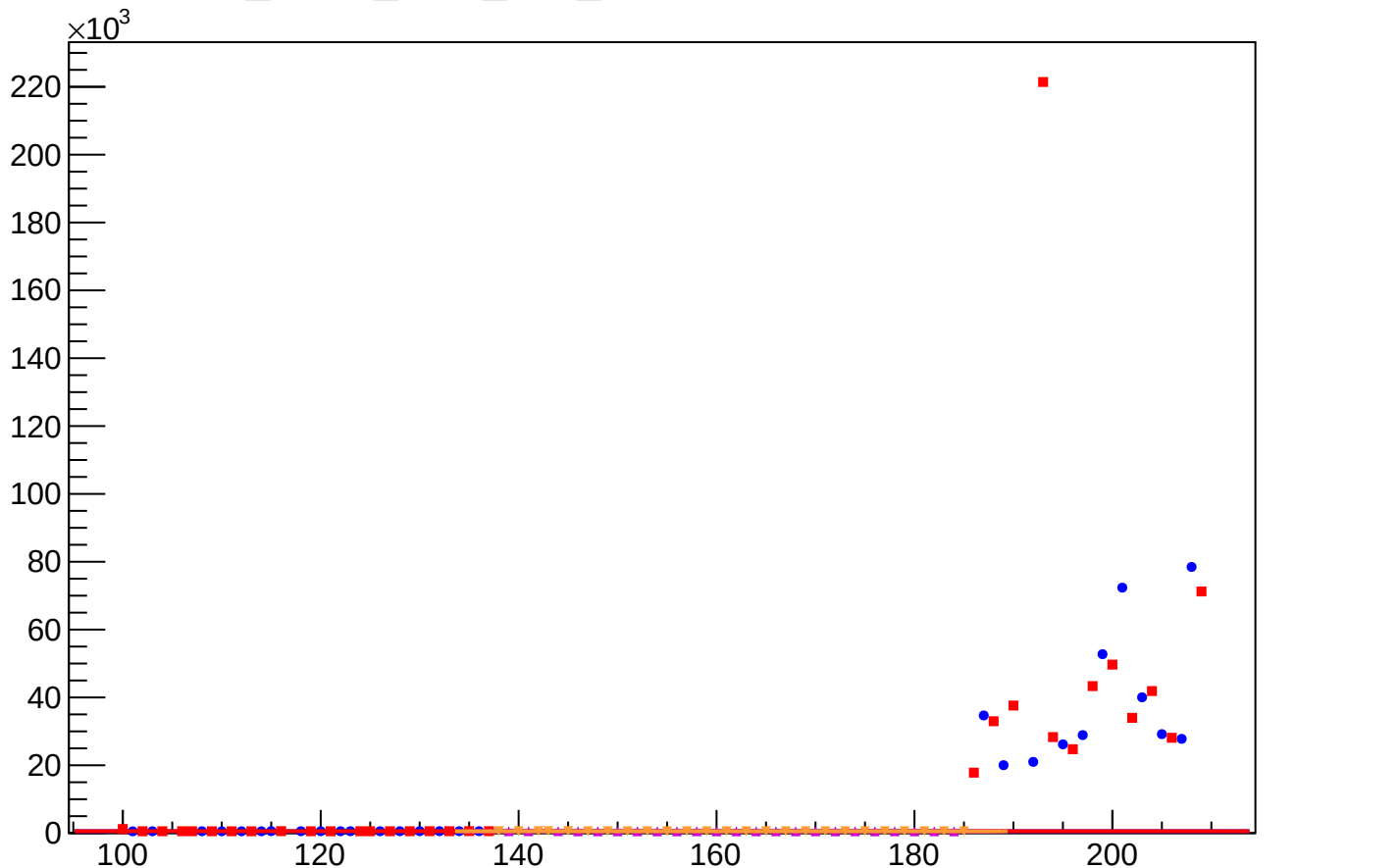
Right: 1178.031+/-152.202 χ^2/NDF : 44.0/57

In: 1178.331+/-113.721 χ^2/NDF : 50.3/50

Out: 1064.364+/-110.639 χ^2/NDF : 38.6/54

All: 1119.782+/-79.301 χ^2/NDF : 89.4/105

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.519 $\pm$ 0.155 χ^2 /NDF: 5759784.7/27

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

Right Out: 569.746 $\pm$ 0.150 χ^2 /NDF: 5681117.6/30

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

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

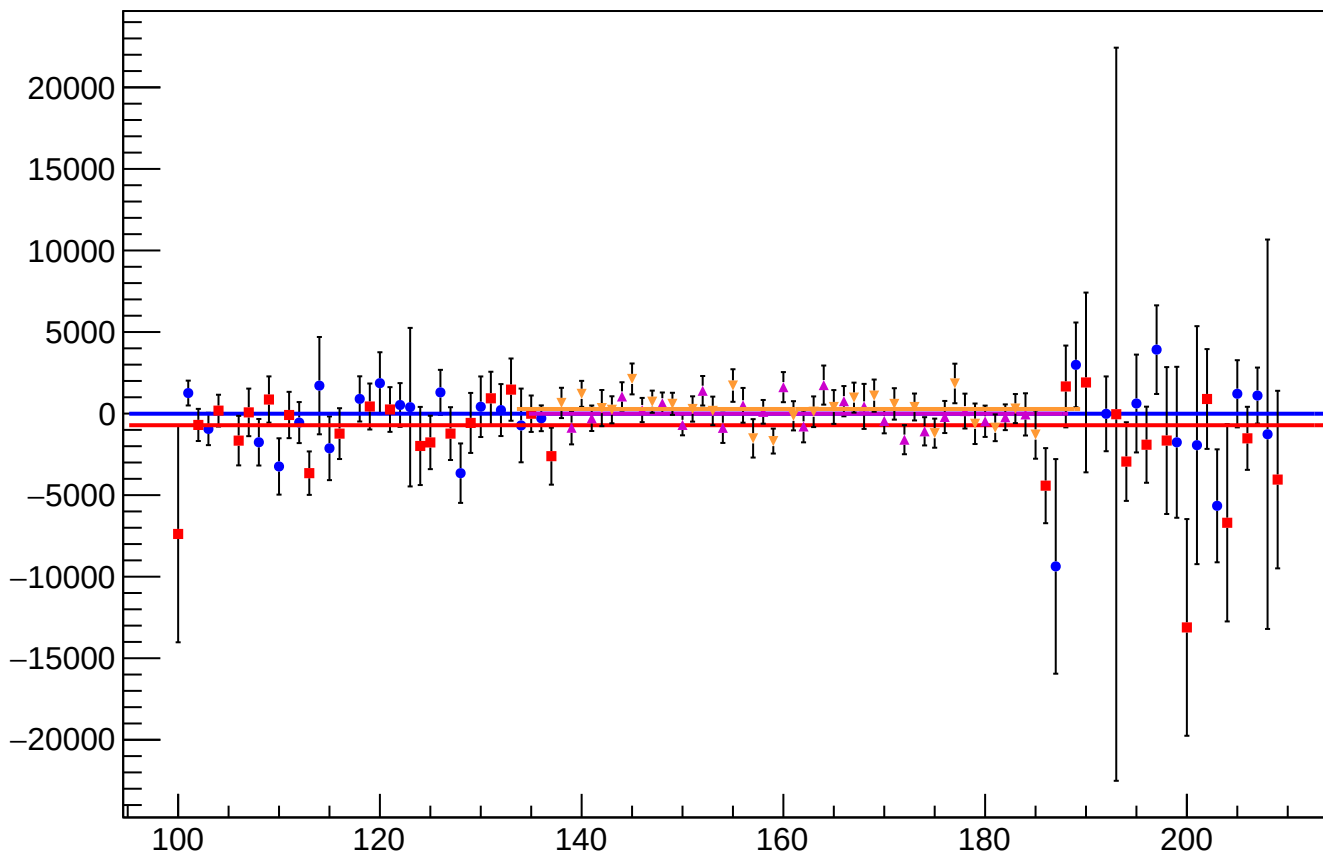
Right: 569.151 $\pm$ 0.108 χ^2 /NDF: 11440934.7/58

In: 560.095 $\pm$ 0.080 χ^2 /NDF:5775067.3/50

Out: 560.858 $\pm$ 0.078 χ^2 /NDF:5700697.3/55

All: 560.487 $\pm$ 0.056 χ^2 /NDF: 11475810.9/10

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -8.407 ± 306.880 $\chi^2/\text{NDF}: 26.3/27$

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

Right Out: -714.020 ± 312.119 $\chi^2/\text{NDF}: 25.0/30$

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

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

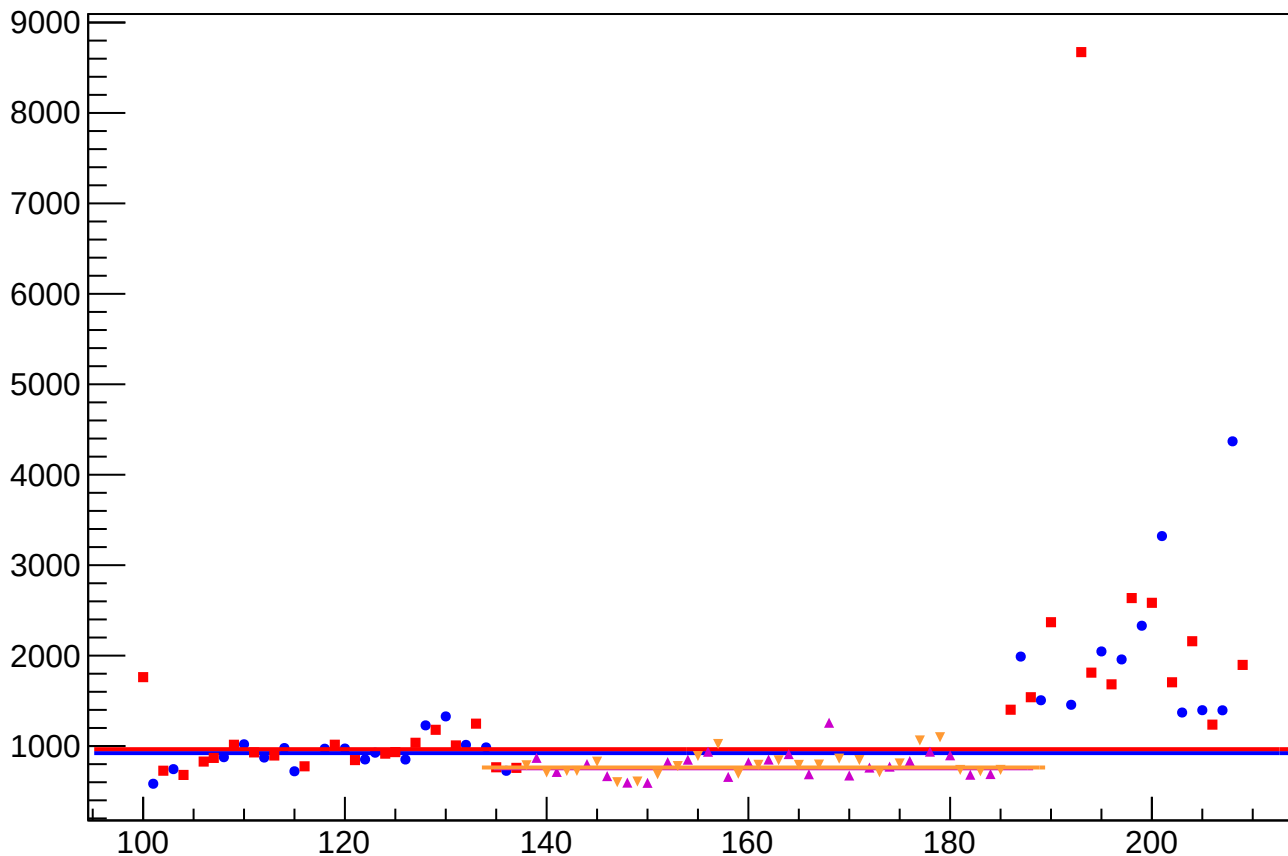
Right: -355.242 ± 218.826 $\chi^2/\text{NDF}: 53.8/58$

In: -8.263 ± 157.417 $\chi^2/\text{NDF}: 46.4/50$

Out: 32.443 ± 156.203 $\chi^2/\text{NDF}: 59.3/55$

All: 12.248 ± 110.879 $\chi^2/\text{NDF}: 105.8/106$

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 922.111+/-0.217 χ^2/NDF : 2484538.6/27

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

Right Out: 965.576+/-0.221 χ^2/NDF : 2233591.2/30

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

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

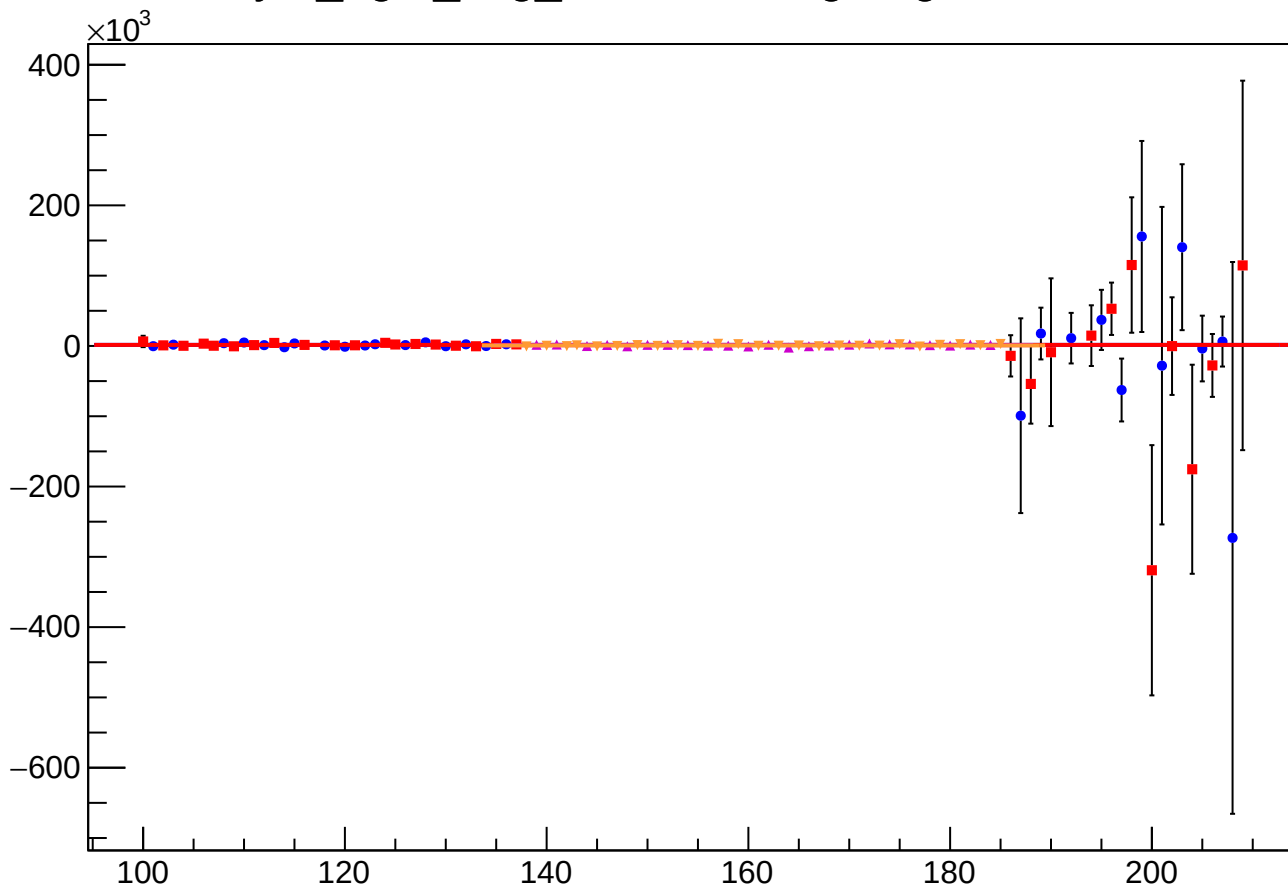
Right: 943.475+/-0.155 χ^2/NDF : 4737851.0/58

In: 798.308+/-0.111 χ^2/NDF : 3858107.9/50

Out: 813.801+/-0.110 χ^2/NDF : 3618245.5/55

All: 806.114+/-0.078 χ^2/NDF : 7486115.6/106

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.006+/-402.536 χ^2/NDF : 23.9/27

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

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

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

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

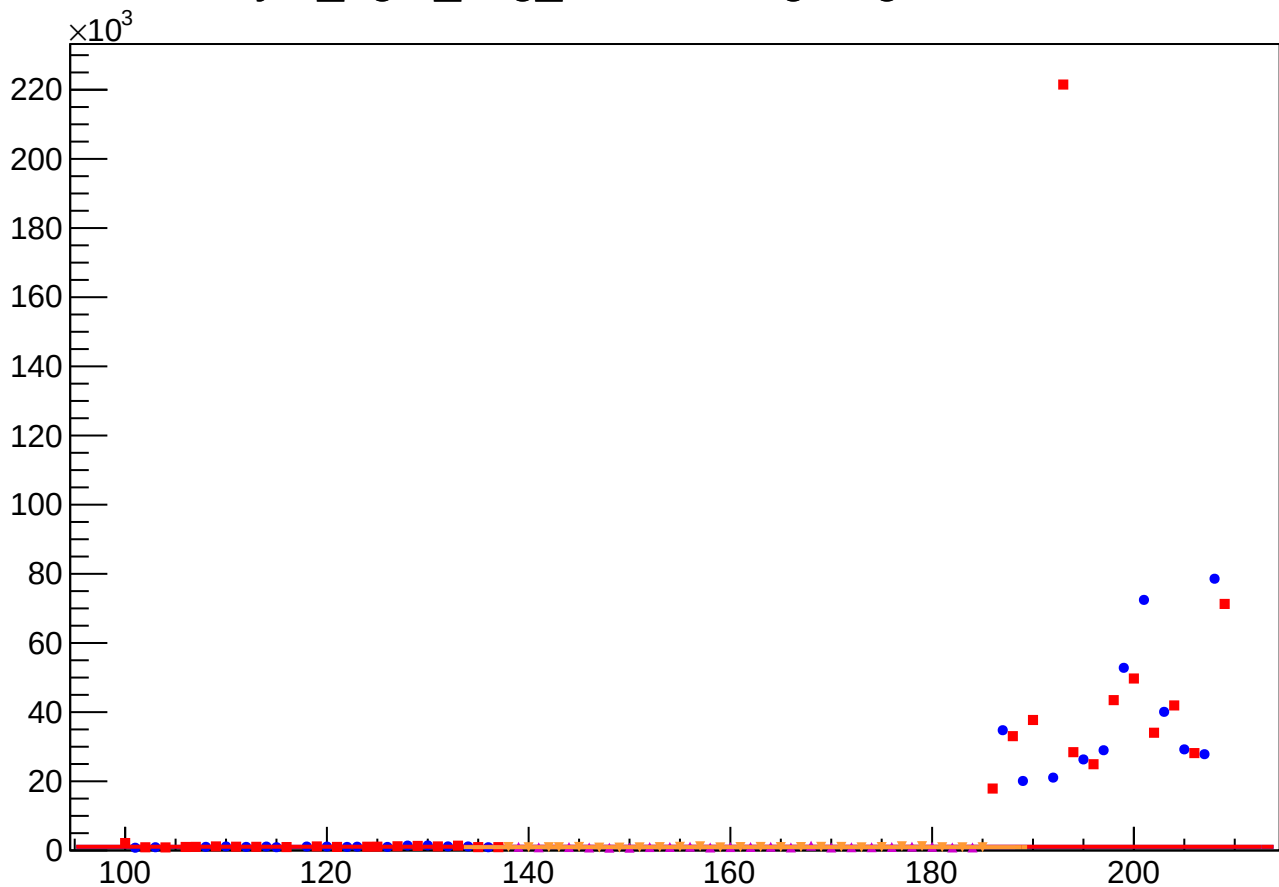
Right: 1493.426+/-283.948 χ^2/NDF : 45.8/57

In: 1217.271+/-199.743 χ^2/NDF : 49.9/50

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

All: 1065.846+/-140.089 χ^2/NDF : 97.1/105

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1038.621+/-0.285 χ^2/NDF : 5895571.6/27

Left Out: 962.256+/-0.159 χ^2/NDF : 362937.6/24

Right Out: 1073.329+/-0.283 χ^2/NDF : 5677512.2/30

Left In: 954.643+/-0.163 χ^2/NDF : 443395.0/22

Left: 958.525+/-0.114 χ^2/NDF : 807449.1/47

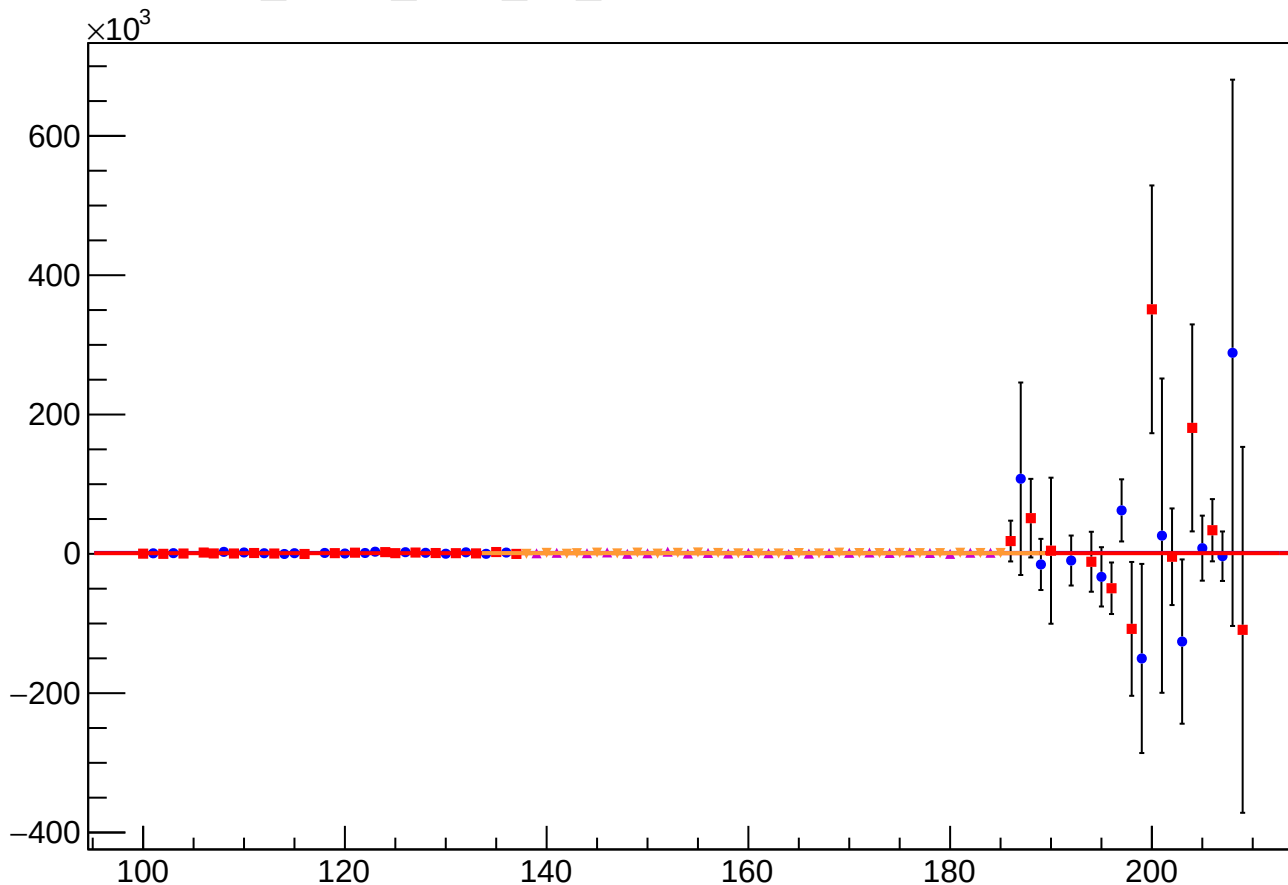
Right: 1056.059+/-0.201 χ^2/NDF : 11580554.4/58

In: 975.321+/-0.141 χ^2/NDF : 6404579.3/50

Out: 988.989+/-0.139 χ^2/NDF : 6157201.5/55

All: 982.266+/-0.099 χ^2/NDF : 12566539.1/10

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.488+/-218.833 χ^2/NDF : 18.4/27

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

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

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

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

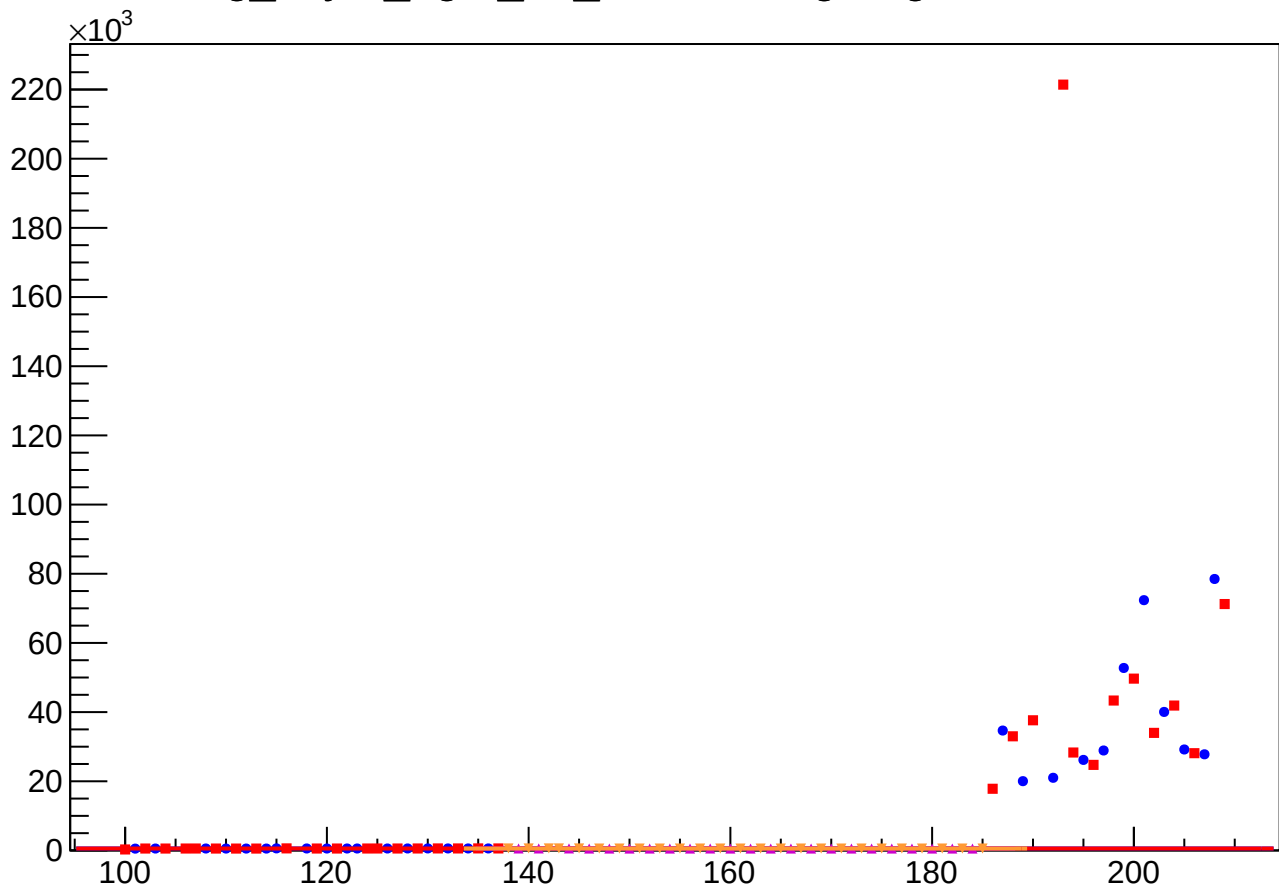
Right: 1146.217+/-150.990 χ^2/NDF : 42.6/57

In: 1231.437+/-113.851 χ^2/NDF : 50.9/50

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

All: 1139.682+/-79.189 χ^2/NDF : 90.0/105

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.182 $\pm$ 0.155 χ^2 /NDF: 5759989.2/27

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

Right Out: 558.739 $\pm$ 0.148 χ^2 /NDF: 5768831.3/30

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

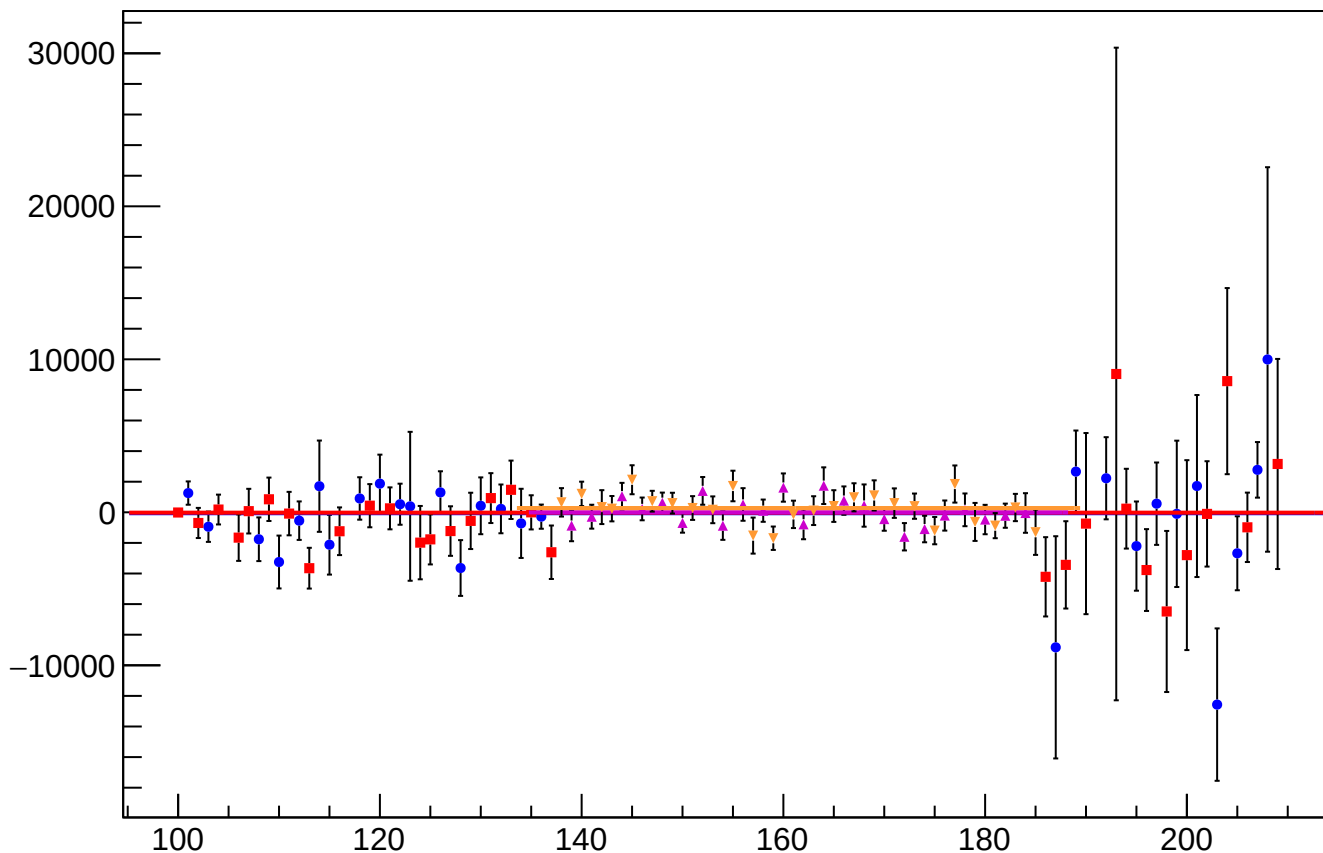
Right: 563.711 $\pm$ 0.107 χ^2 /NDF: 11531207.2/58

In: 560.733 $\pm$ 0.081 χ^2 /NDF: 5775354.8/50

Out: 558.278 $\pm$ 0.078 χ^2 /NDF: 5783630.0/55

All: 559.465 $\pm$ 0.056 χ^2 /NDF: 11559464.8/10

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -61.363 ± 309.803 χ^2/NDF : 31.5/27

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

Right Out: -22.703 ± 38.926 χ^2/NDF : 26.2/30

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

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

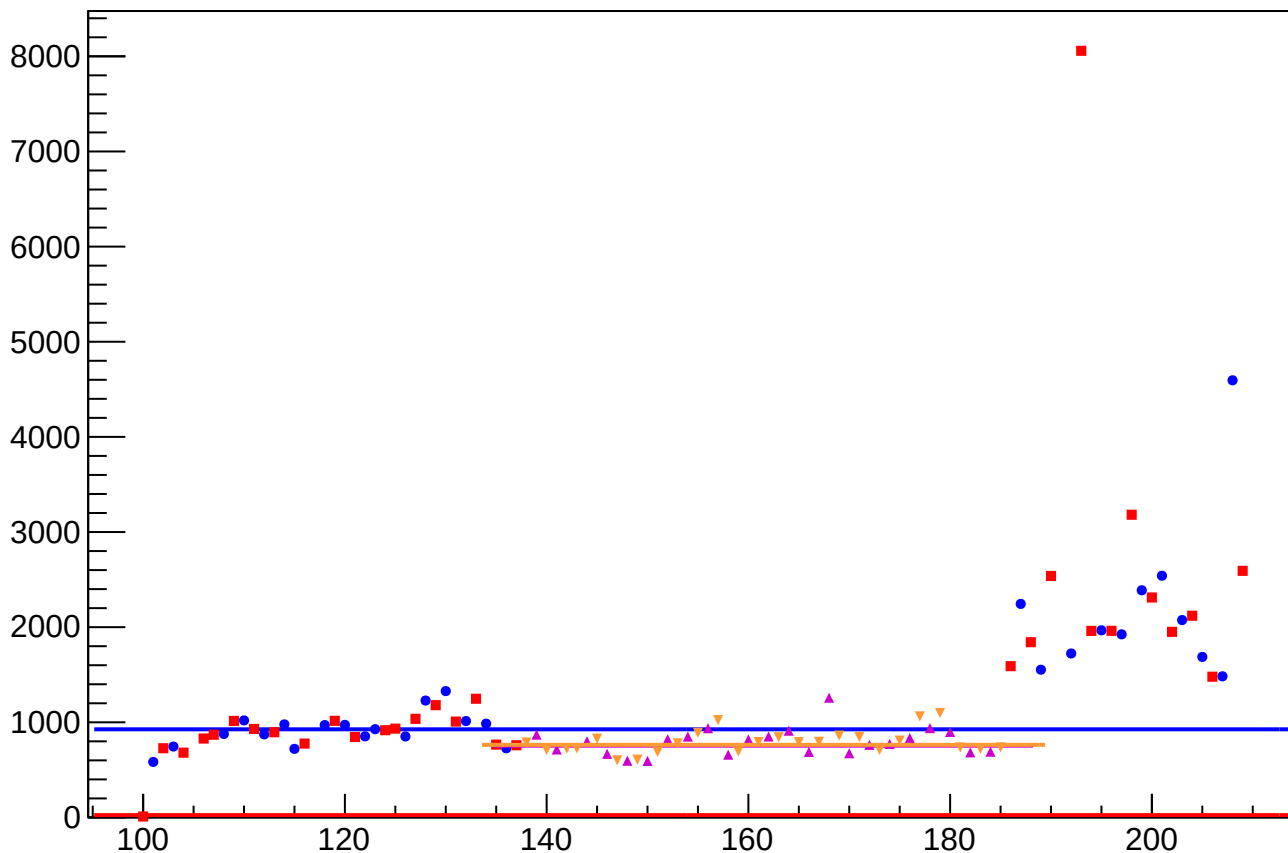
Right: -23.304 ± 38.623 χ^2/NDF : 57.7/58

In: -21.343 ± 157.866 χ^2/NDF : 51.6/50

Out: -9.185 ± 38.051 χ^2/NDF : 55.7/55

All: -9.853 ± 36.992 χ^2/NDF : 107.4/106

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 926.500 $\pm$ 0.219

χ^2 /NDF: 2683714.3/27

Left Out: 763.307 $\pm$ 0.128

χ^2 /NDF: 753728.9/24

Right Out: 24.550 $\pm$ 0.028

χ^2 /NDF: 20786138.0/30

Left In: 754.483 $\pm$ 0.130

χ^2 /NDF: 931536.8/22

Left: 758.967 $\pm$ 0.091

χ^2 /NDF: 1687616.8/47

Right: 38.568 $\pm$ 0.027

χ^2 /NDF: 40158562.7/58

In: 799.149 $\pm$ 0.112

χ^2 /NDF: 4071744.1/50

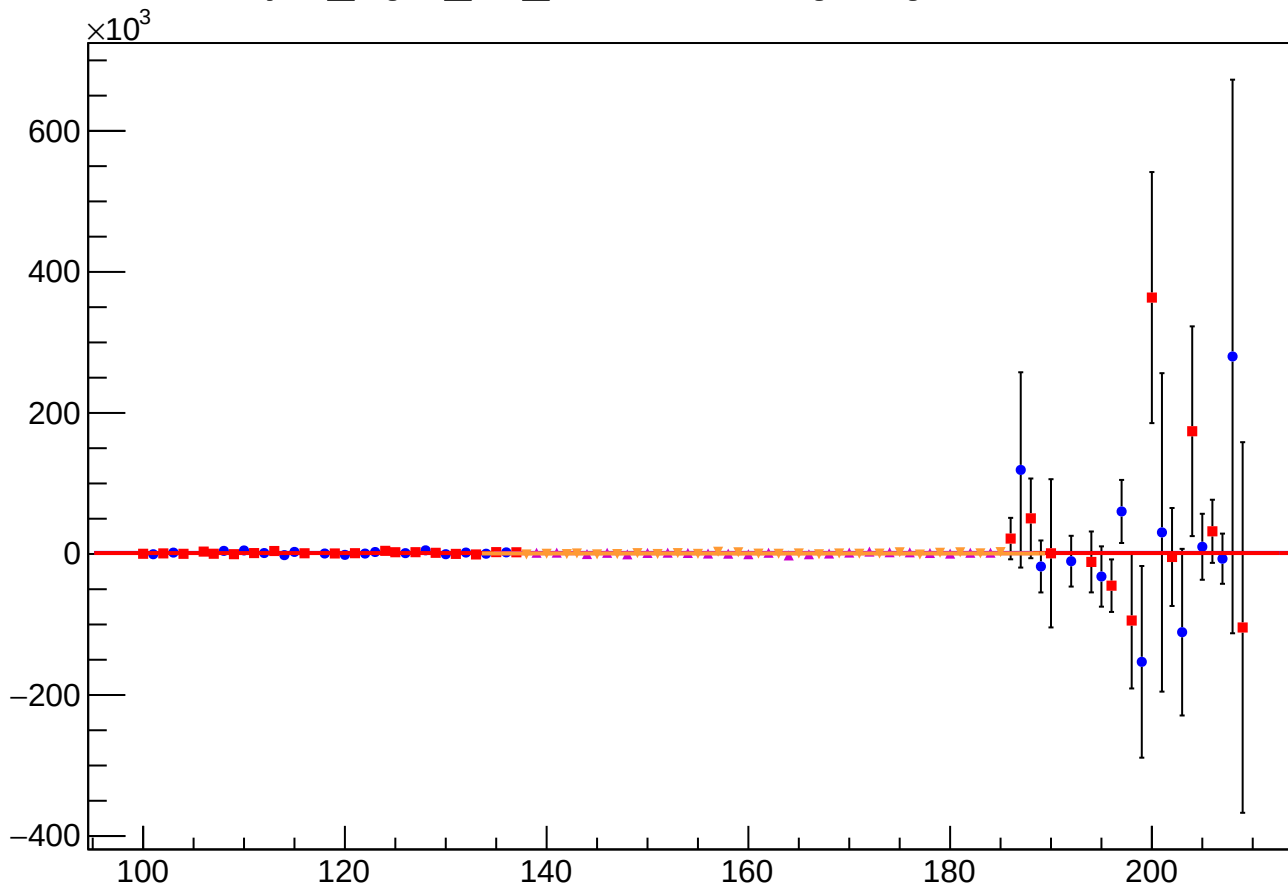
Out: 57.389 $\pm$ 0.027

χ^2 /NDF: 53560977.1/55

All: 98.118 $\pm$ 0.026

χ^2 /NDF: 99363375.6/106

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1515.826+/-402.759 χ^2/NDF : 24.0/27

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

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

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

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

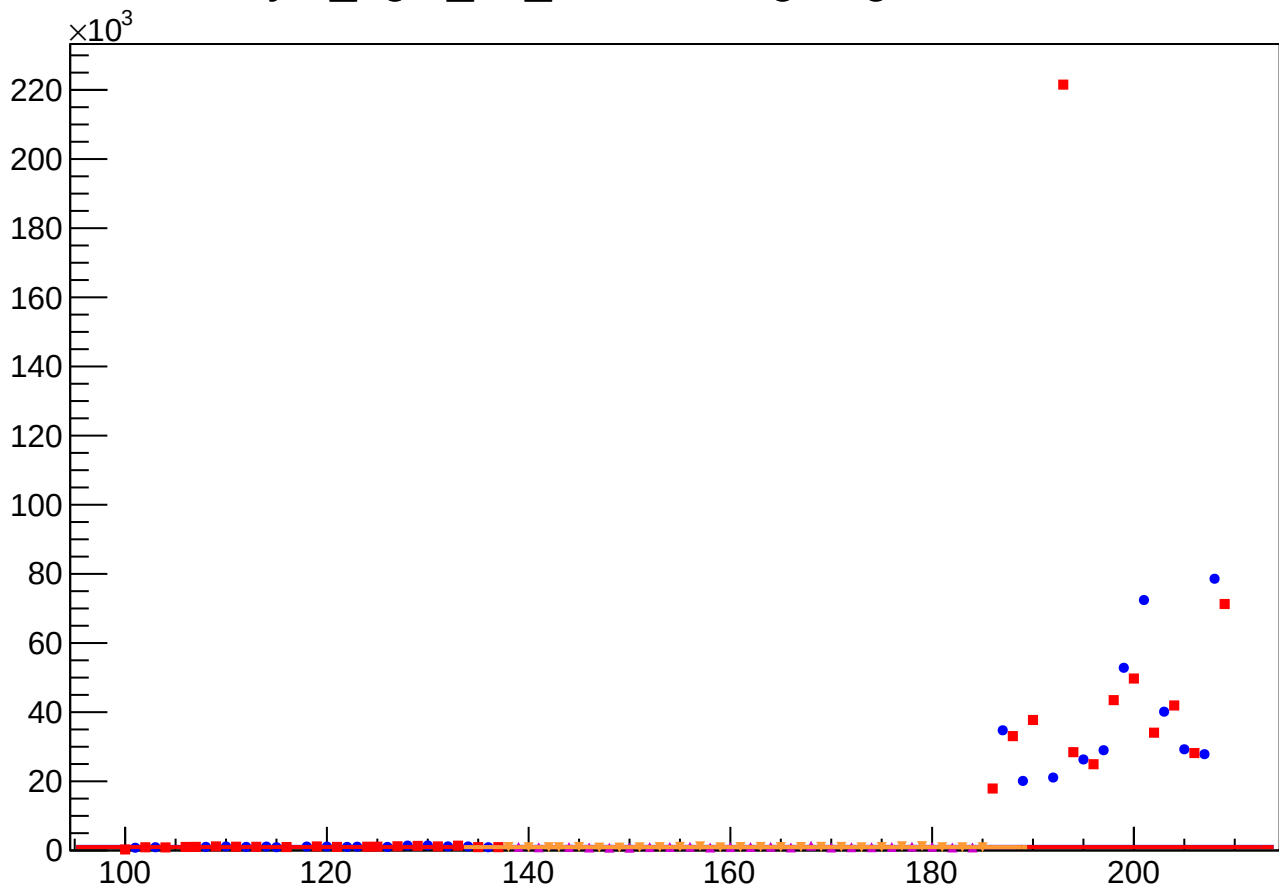
Right: 1395.592+/-275.072 χ^2/NDF : 46.6/57

In: 1259.911+/-199.877 χ^2/NDF : 48.8/50

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

All: 1067.742+/-139.049 χ^2/NDF : 94.8/105

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1039.203+/-0.285 χ^2/NDF : 5896307.2/27

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

Right Out: 977.827+/-0.266 χ^2/NDF : 6550264.3/30

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

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

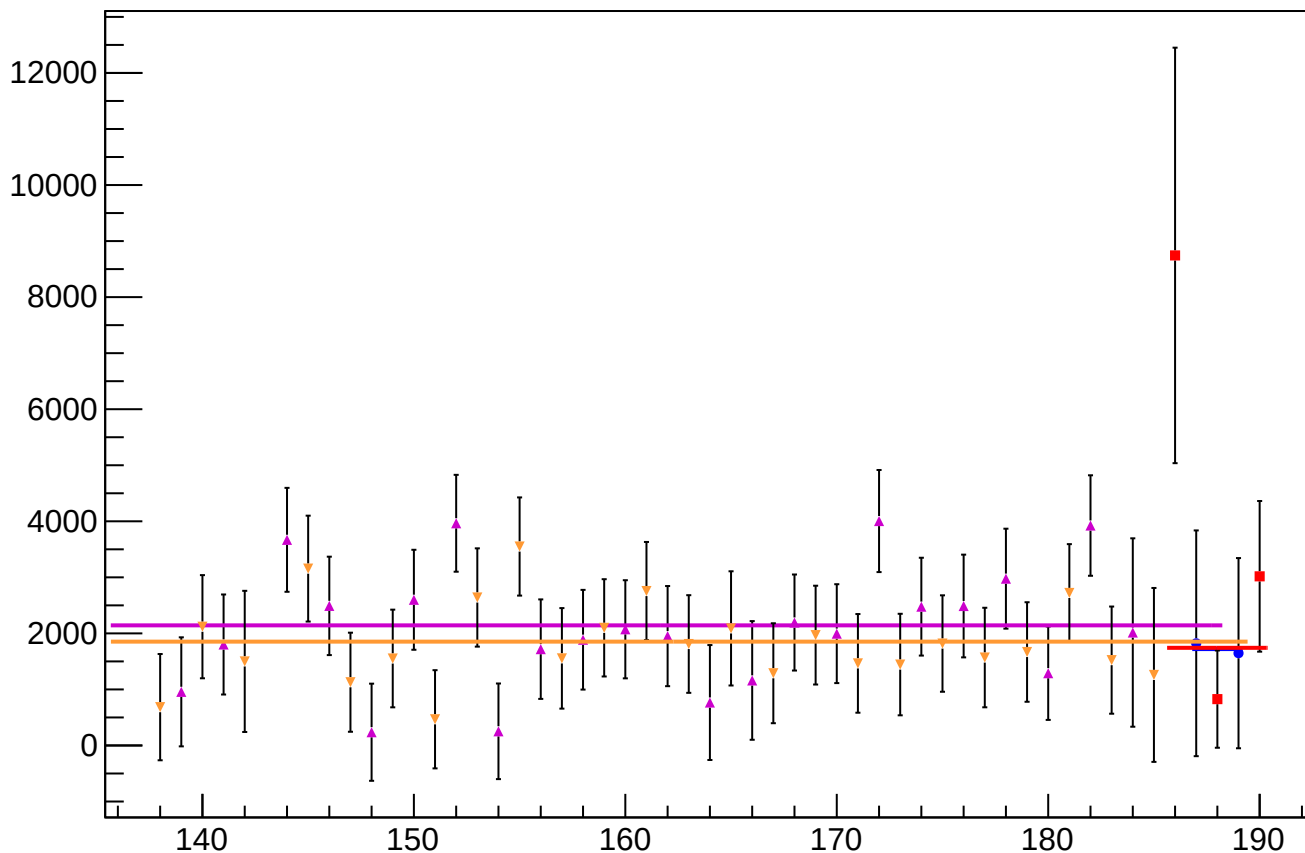
Right: 1006.456+/-0.195 χ^2/NDF : 12471352.9/58

In: 975.987+/-0.141 χ^2/NDF : 6404747.6/50

Out: 966.753+/-0.137 χ^2/NDF : 6915452.7/55

All: 971.222+/-0.098 χ^2/NDF : 13322403.2/10

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

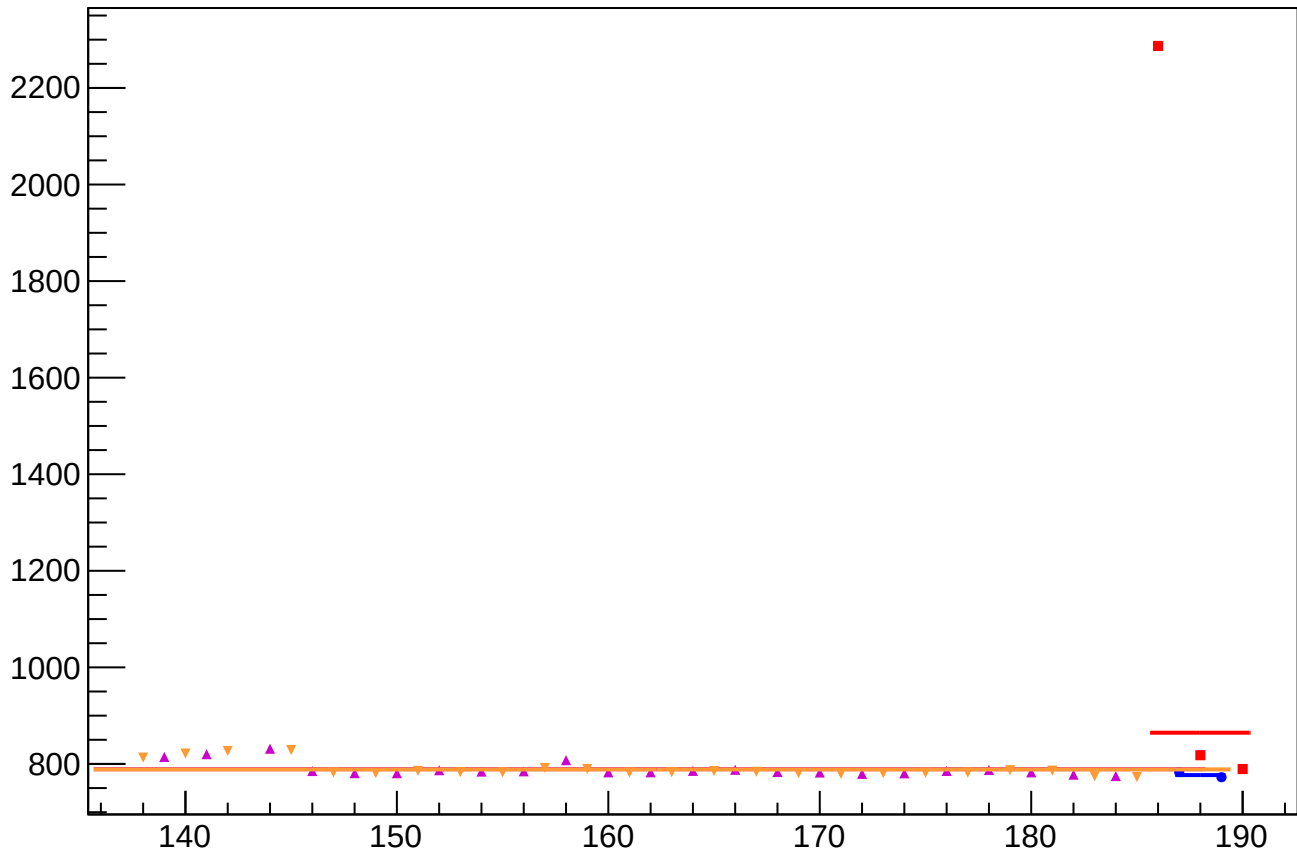
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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 $\pm$ 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

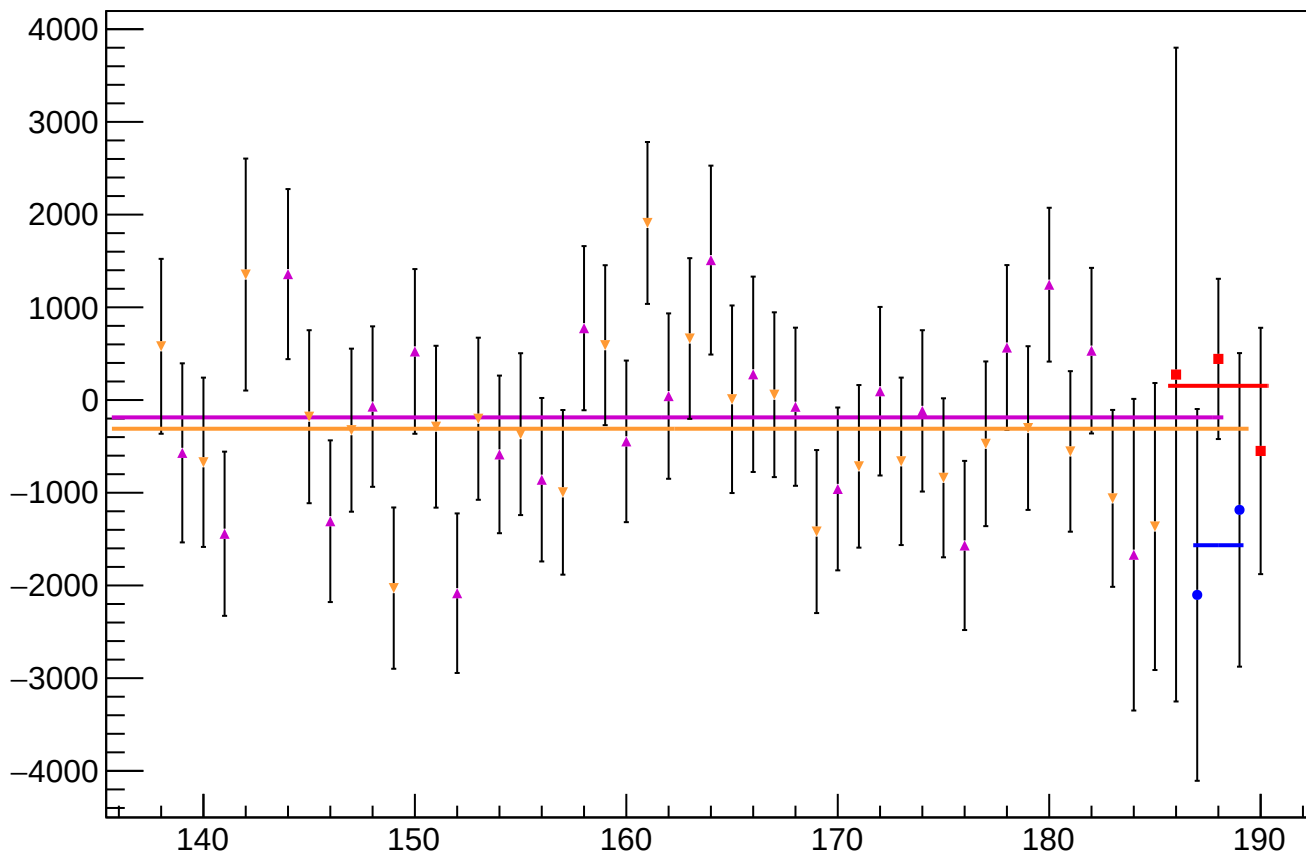
Right: 844.207+/-0.443 χ^2/NDF : 313539.0/4

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

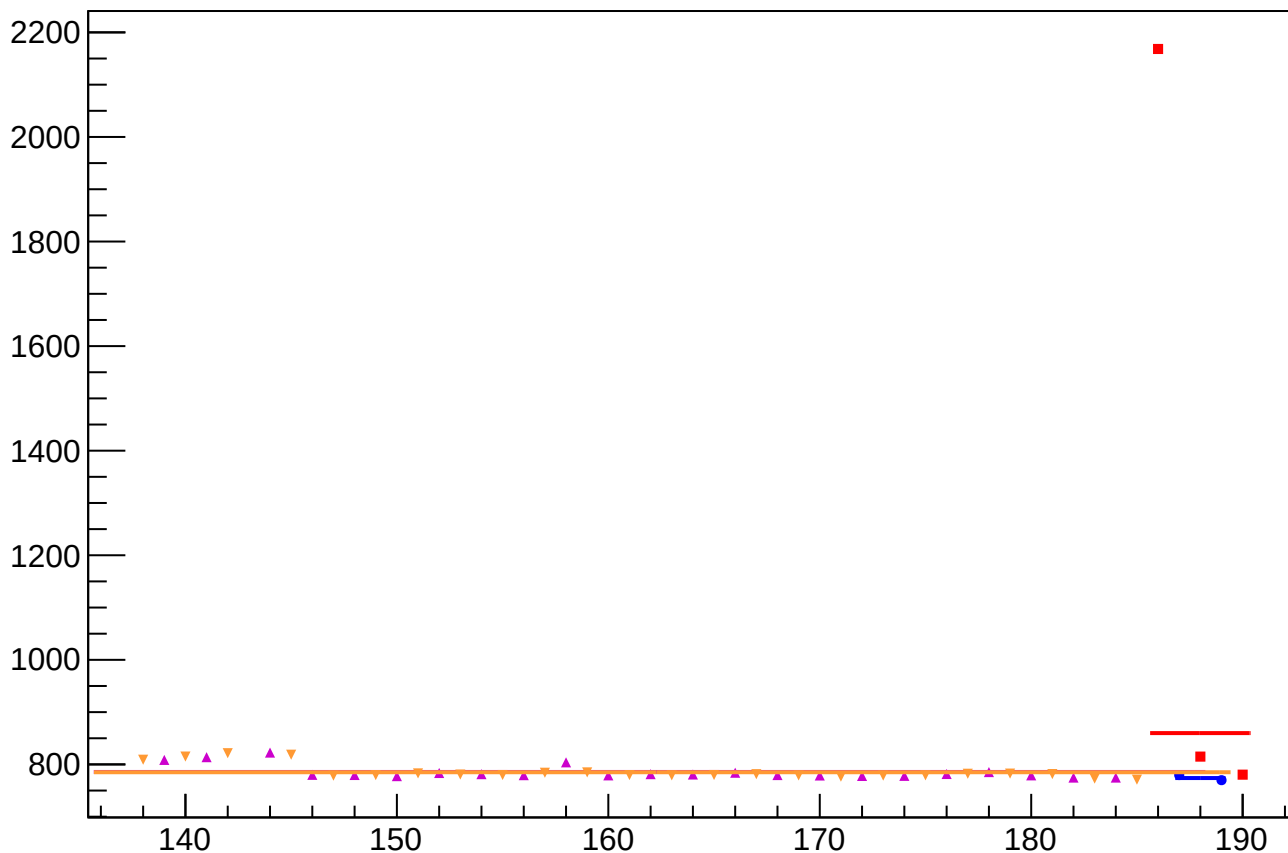
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

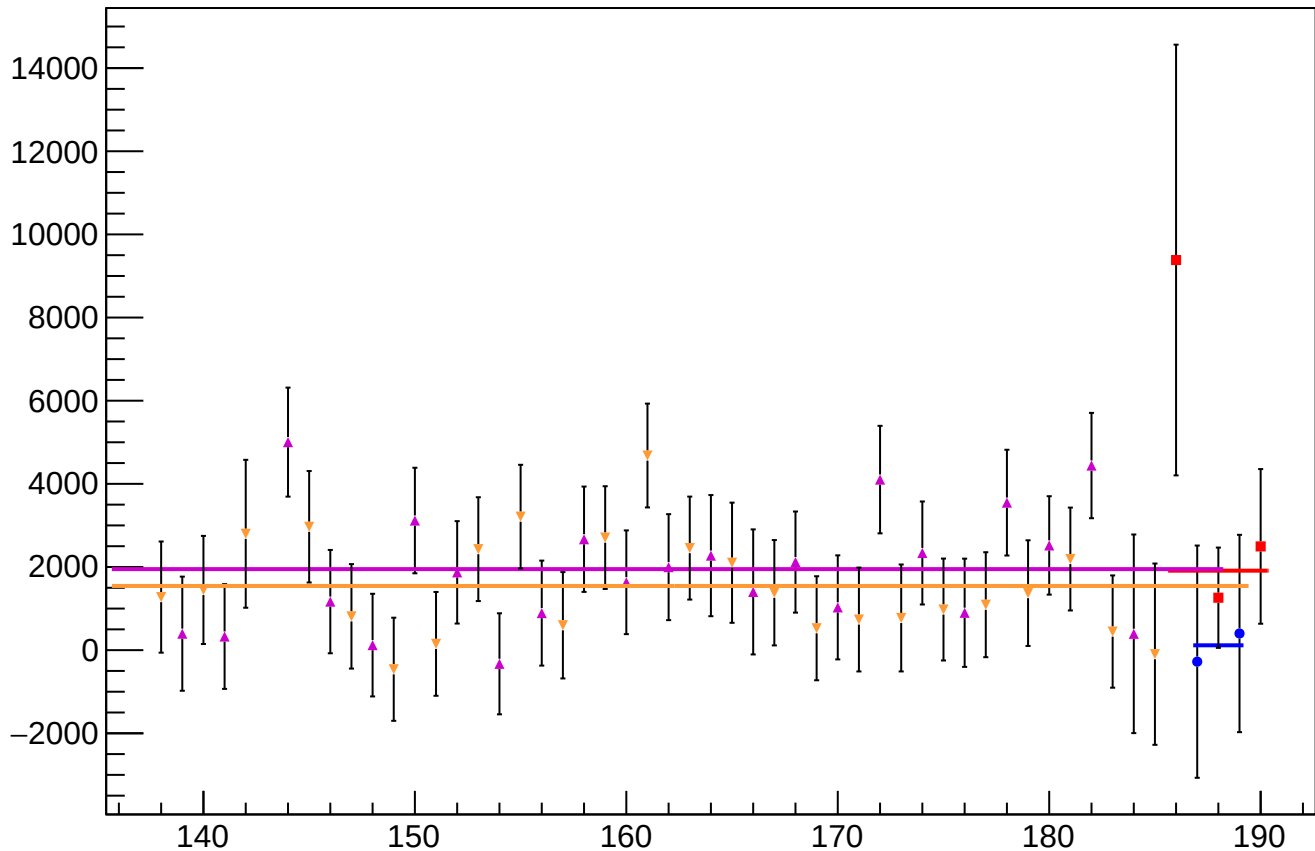
Right: 839.990 $\pm$ 0.440 χ^2 /NDF: 294774.5/4

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

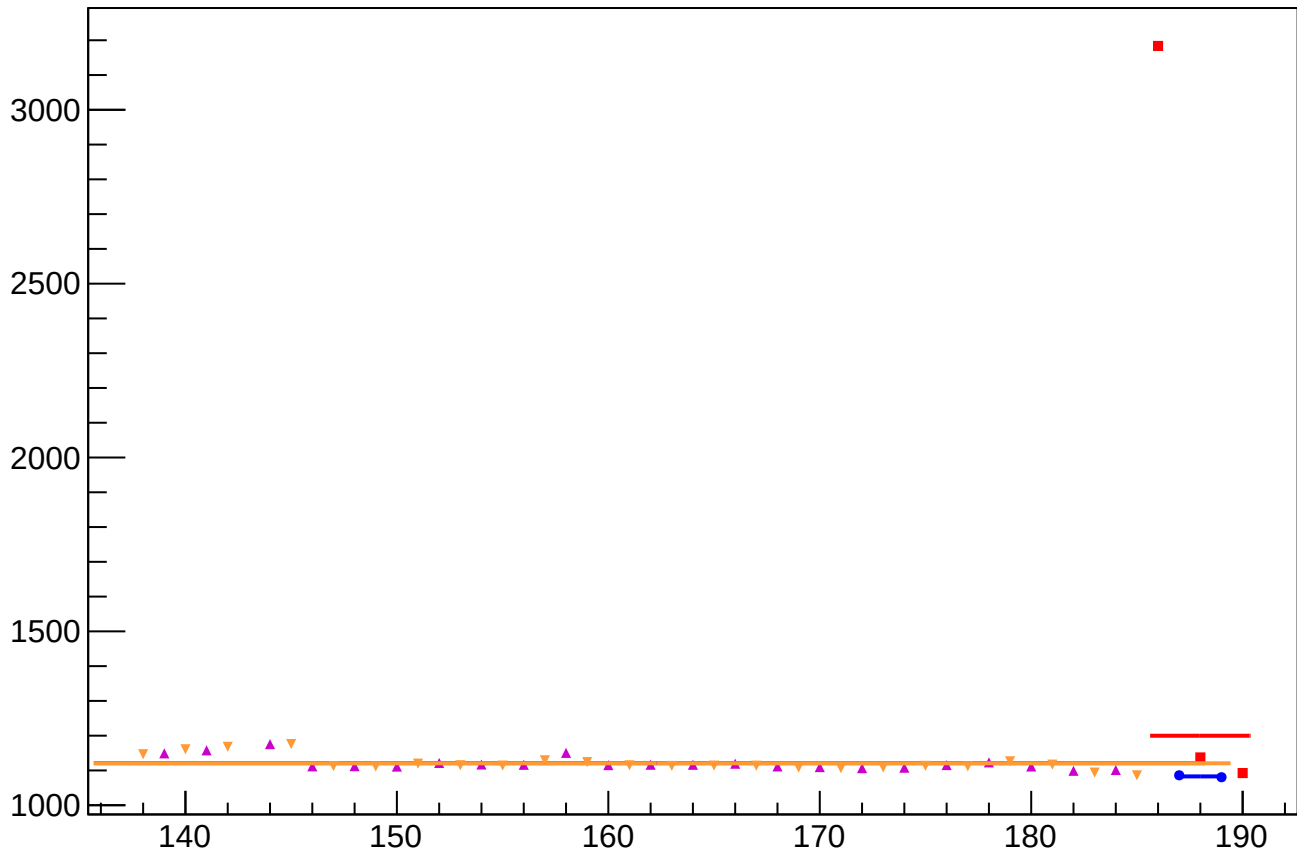
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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+/-1.279 χ^2/NDF : 4.6/1

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

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

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

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

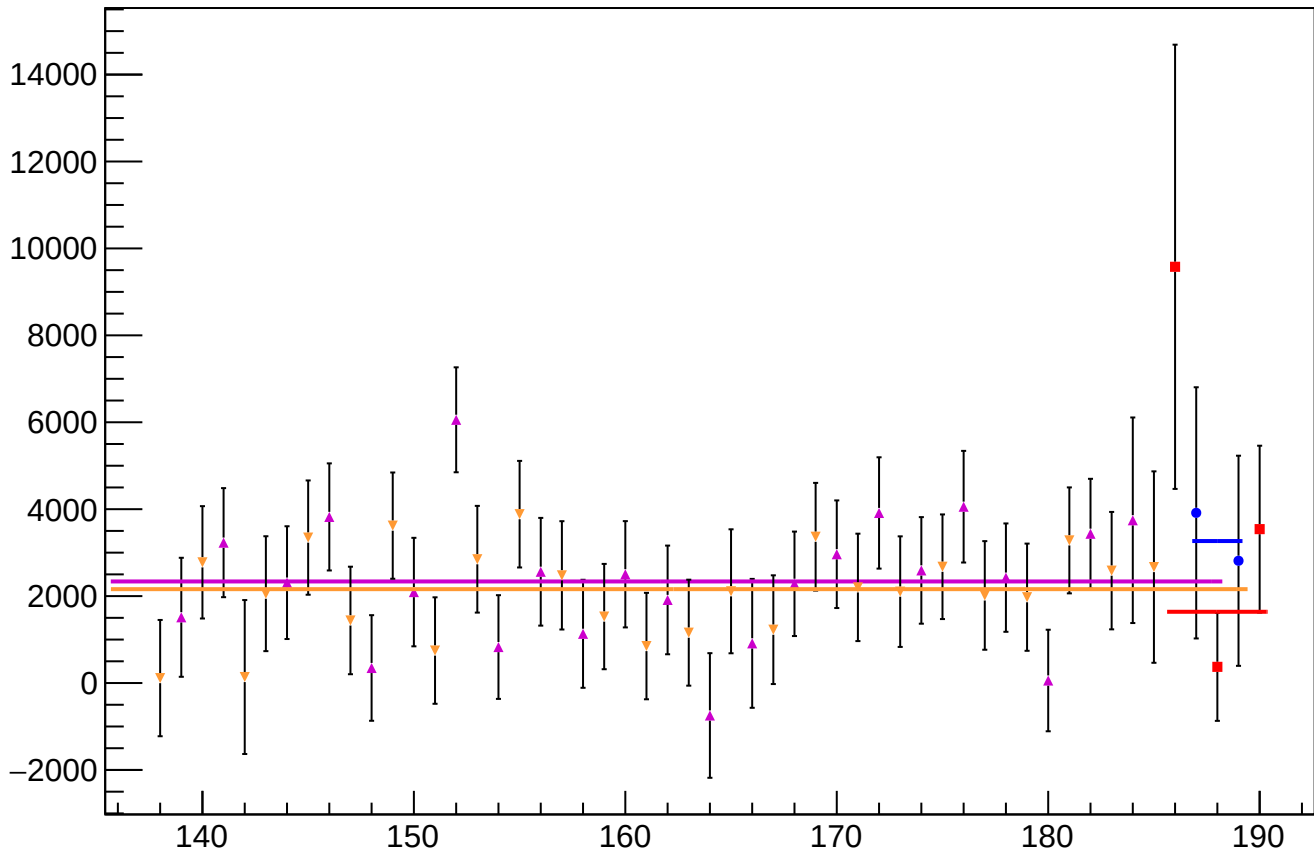
Right: 1172.741+/-0.616 χ^2/NDF : 311788.3/4

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

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

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

cor_asym_usr_mean vs Slug, Sign Corrected



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

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

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

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

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

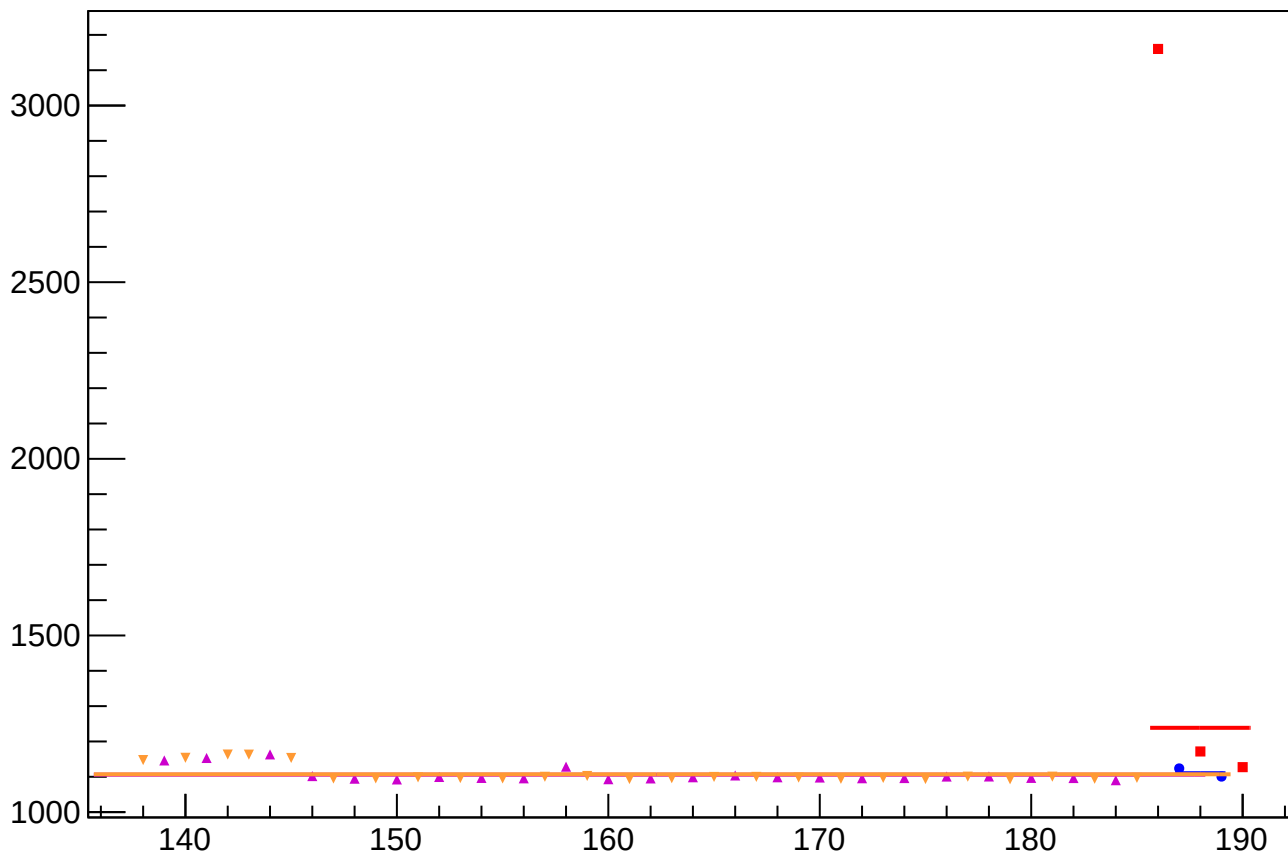
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

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

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

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1110.109 $\pm$ 1.311 χ^2/NDF : 75.3/1

Left Out: 1107.091 $\pm$ 0.182 χ^2/NDF : 15185.2/24

Right Out: 1238.637 $\pm$ 0.723 χ^2/NDF : 295245.1/2

Left In: 1105.955 $\pm$ 0.188 χ^2/NDF : 11111.3/22

Left: 1106.543 $\pm$ 0.131 χ^2/NDF : 26315.2/47

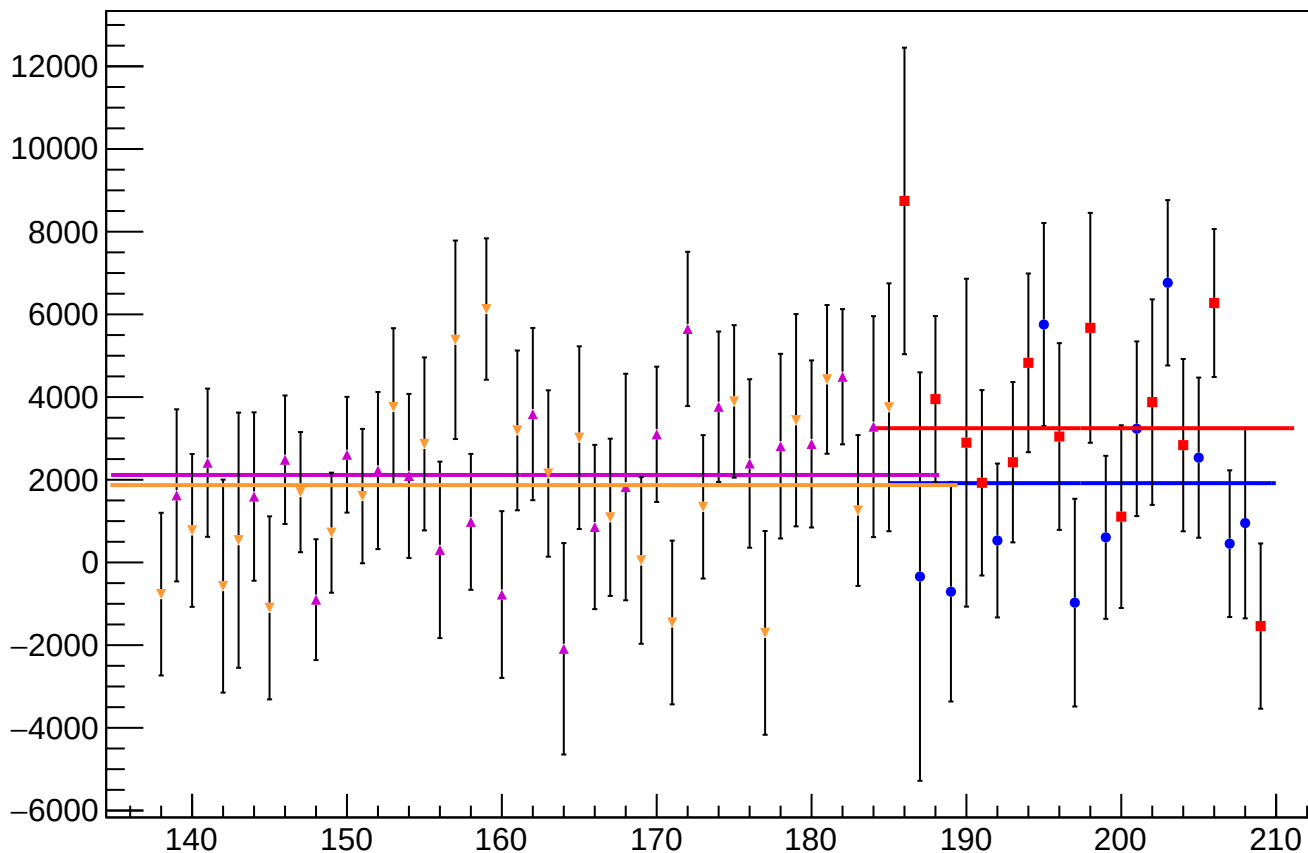
Right: 1208.687 $\pm$ 0.633 χ^2/NDF : 302689.7/4

In: 1106.039 $\pm$ 0.187 χ^2/NDF : 11196.4/24

Out: 1114.943 $\pm$ 0.177 χ^2/NDF : 341579.9/27

All: 1110.735 $\pm$ 0.128 χ^2/NDF : 353978.0/52

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 1918.150+/-659.453 χ^2/NDF : 13.2/10

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

Right Out: 2064.233+/-337.594 χ^2/NDF : 32.0/33

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

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

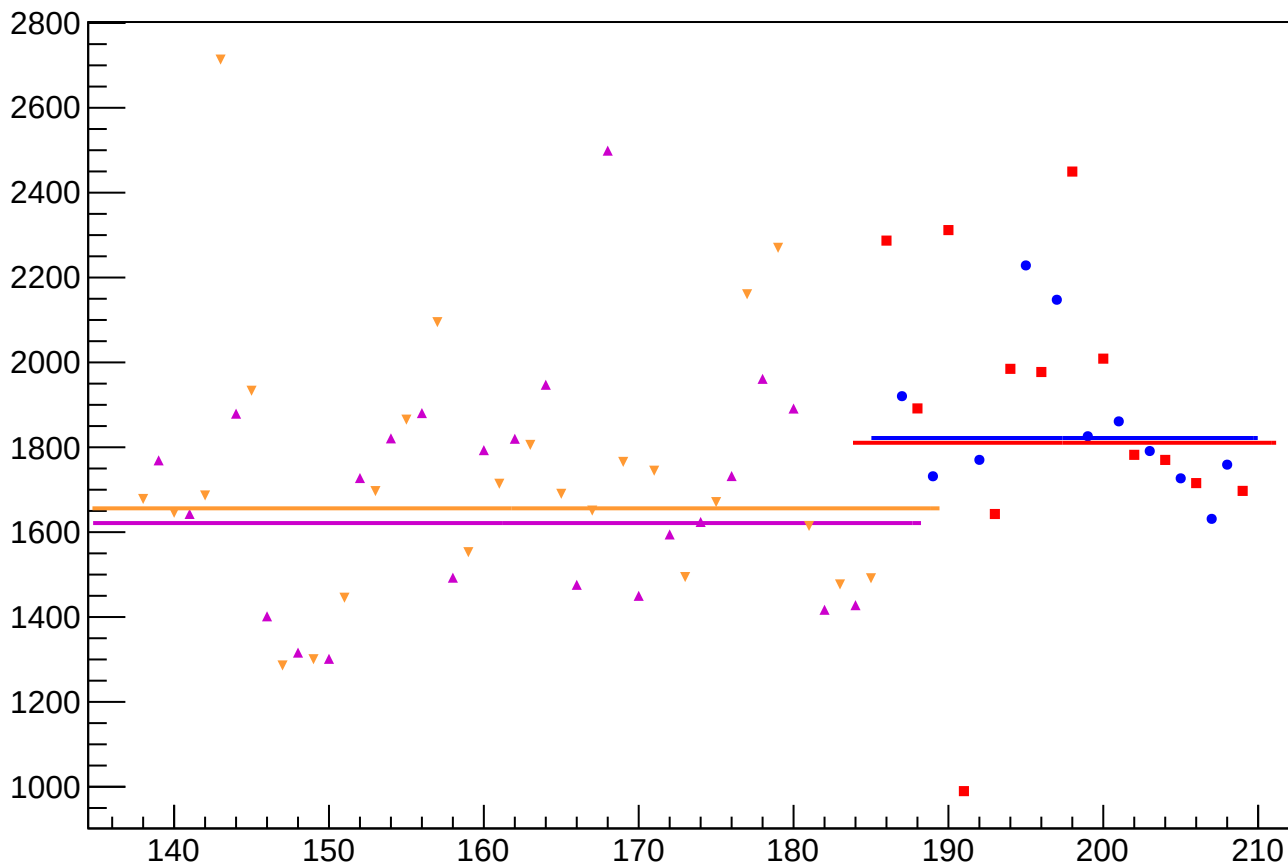
Right: 2616.617+/-454.201 χ^2/NDF : 29.1/23

In: 2064.233+/-337.594 χ^2/NDF : 32.0/33

Out: 2258.158+/-332.116 χ^2/NDF : 43.4/37

All: 2162.782+/-236.755 χ^2/NDF : 75.6/71

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1821.870+/-0.466 χ^2/NDF : 123678.0/10

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

Right Out: 1810.625+/-0.443 χ^2/NDF : 509990.7/12

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

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

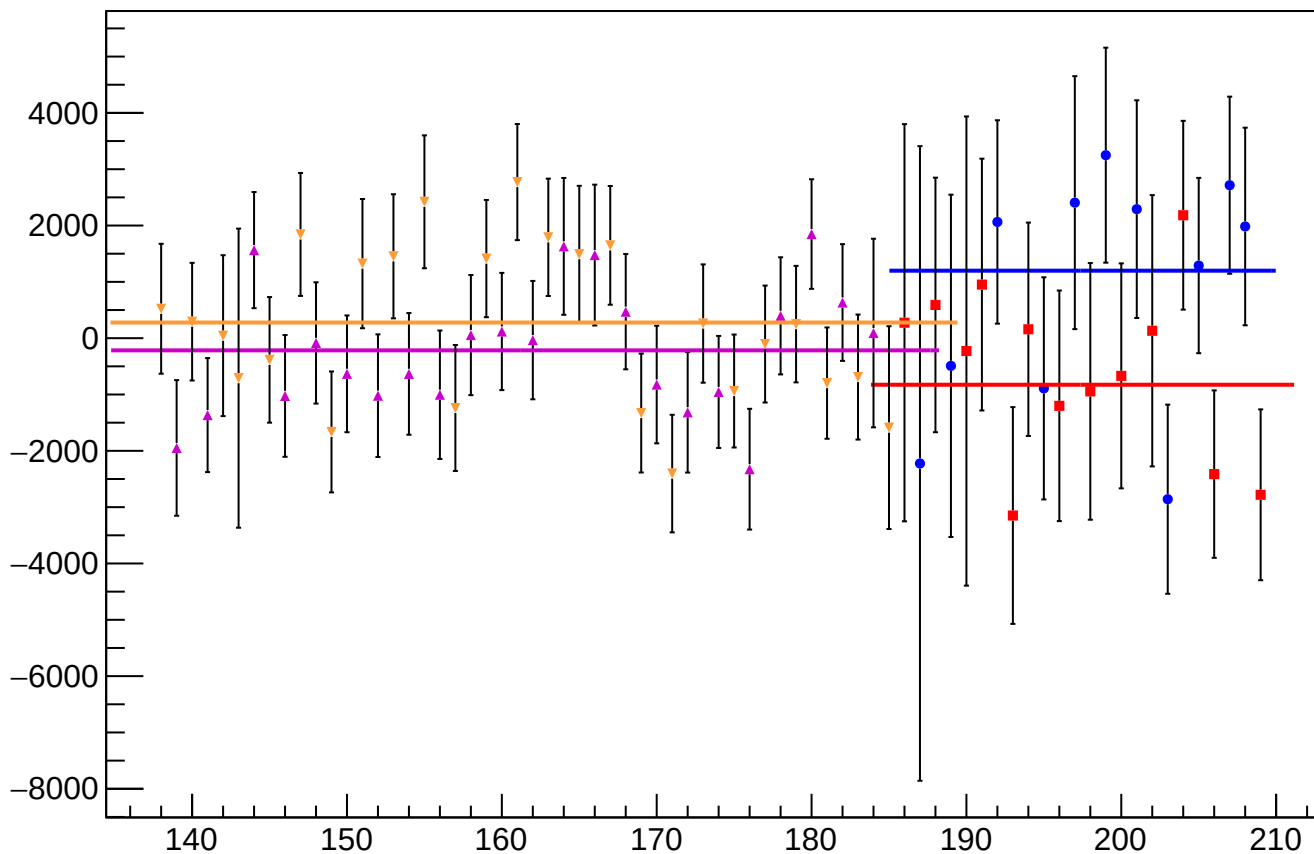
Right: 1815.959+/-0.321 χ^2/NDF : 633974.4/23

In: 1673.950+/-0.239 χ^2/NDF : 1035352.2/33

Out: 1699.540+/-0.235 χ^2/NDF : 1508023.0/37

All: 1686.955+/-0.167 χ^2/NDF : 2549215.1/71

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1198.430 $\pm$ 583.091 χ^2/NDF : 10.8/10

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

Right Out: -826.347 $\pm$ 560.714 χ^2/NDF : 9.1/12

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

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

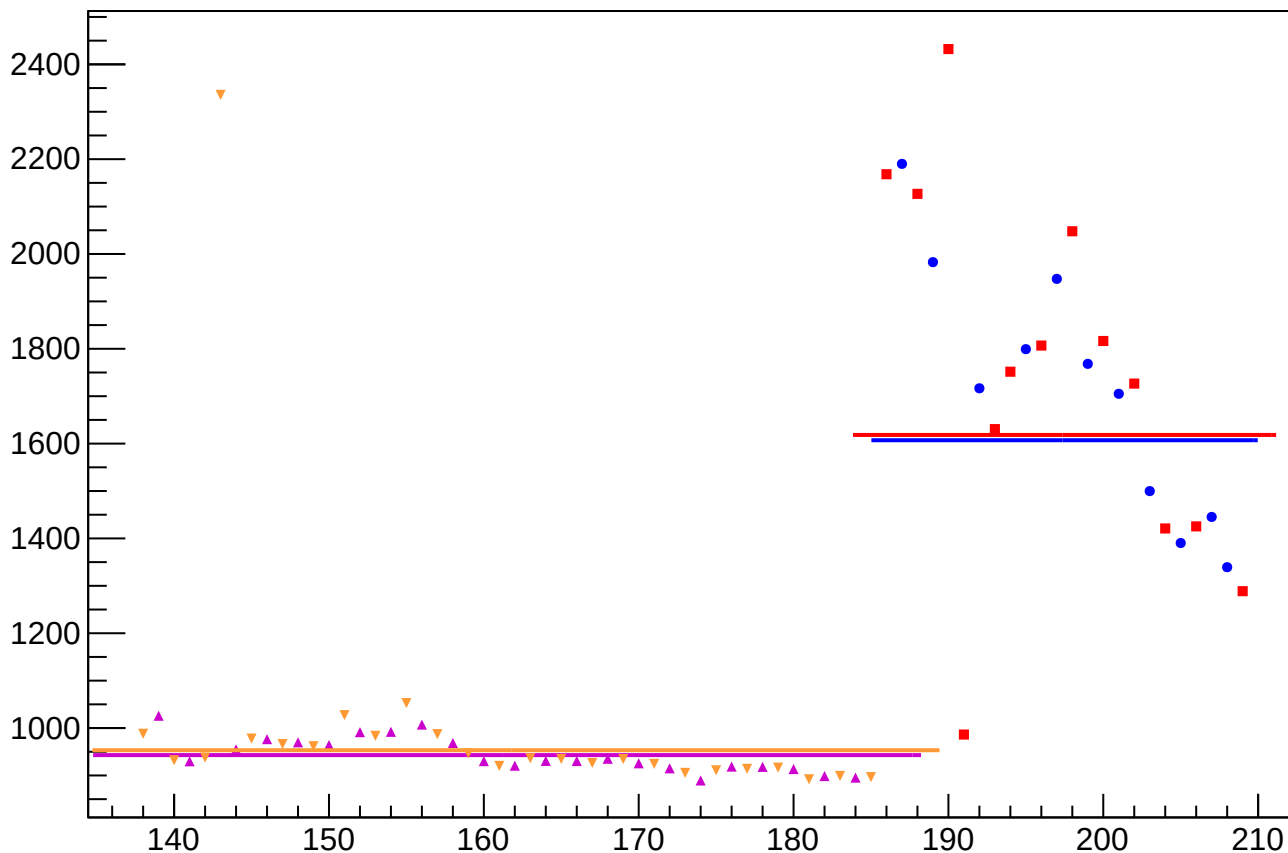
Right: 146.443 $\pm$ 404.164 χ^2/NDF : 26.1/23

In: -31.941 $\pm$ 210.401 χ^2/NDF : 40.3/33

Out: 126.579 $\pm$ 207.679 χ^2/NDF : 50.8/37

All: 48.351 $\pm$ 147.804 χ^2/NDF : 91.4/71

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1607.111+/-0.412 χ^2/NDF : 258452.2/10

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

Right Out: 1618.295+/-0.396 χ^2/NDF : 663865.0/12

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

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

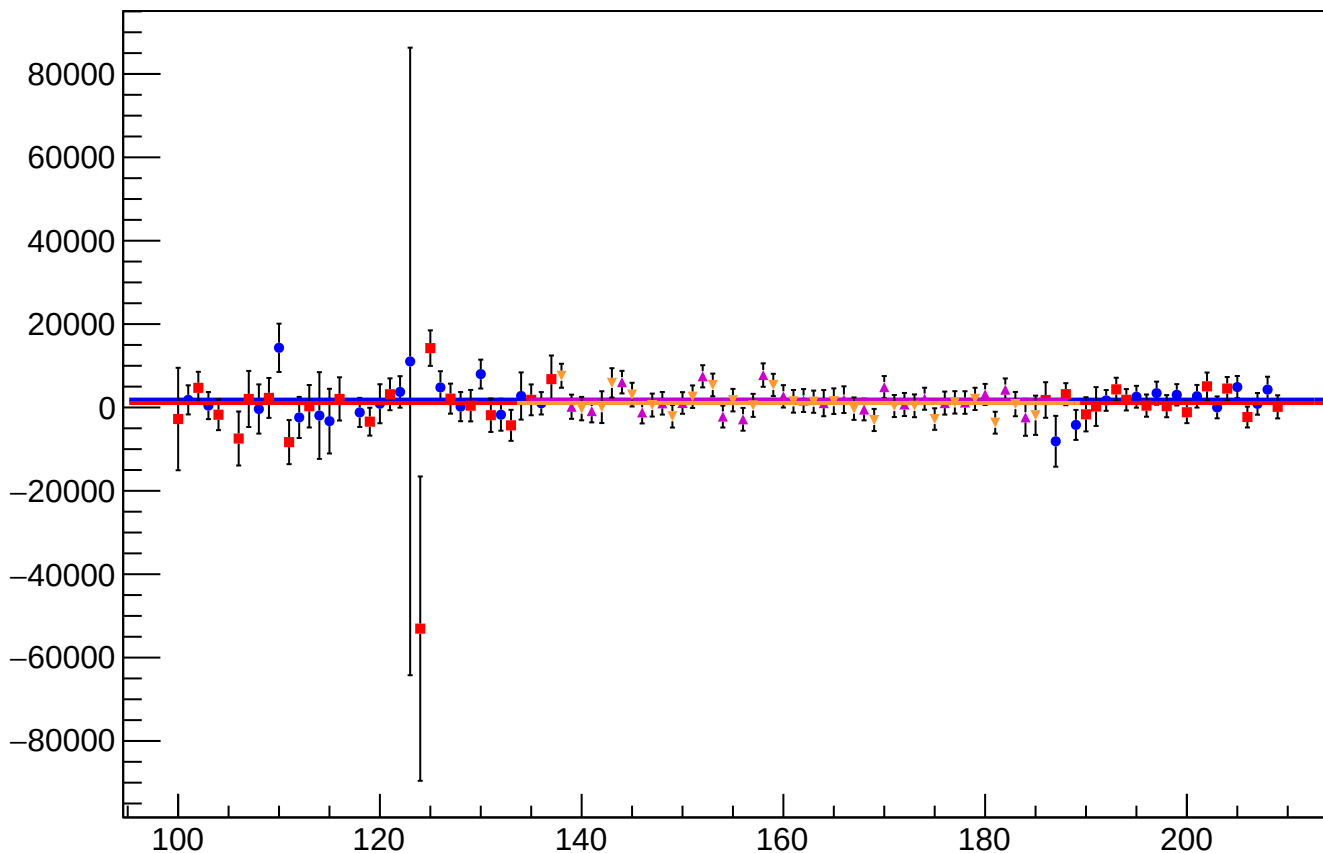
Right: 1612.922+/-0.286 χ^2/NDF : 922699.4/23

In: 1029.406+/-0.149 χ^2/NDF : 2563962.6/33

Out: 1044.459+/-0.147 χ^2/NDF : 3697896.0/37

All: 1037.030+/-0.105 χ^2/NDF : 6267043.7/71

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1886.333 $\pm$ 653.682 χ^2 /NDF: 21.1/27

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

Right Out: 1074.868 $\pm$ 635.740 χ^2 /NDF: 32.6/31

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

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

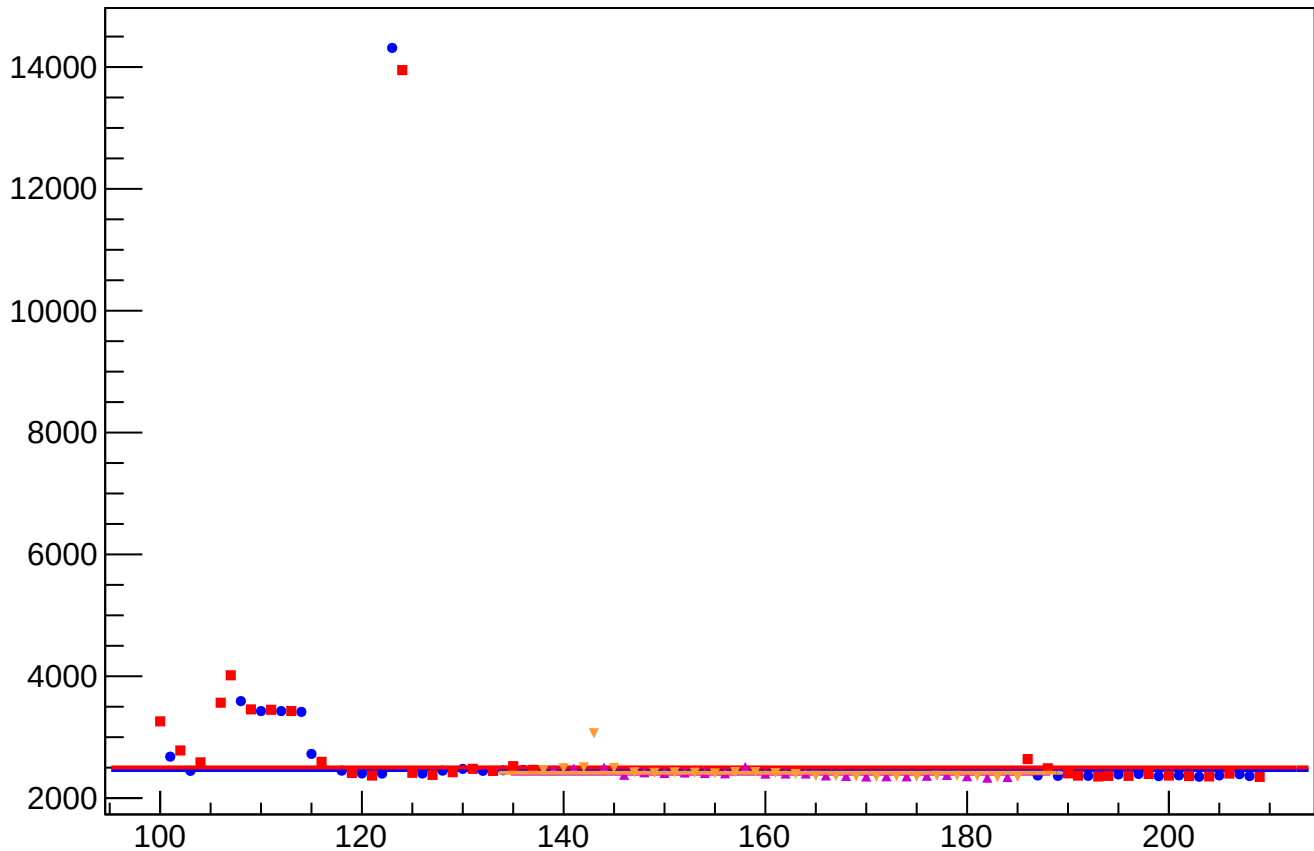
Right: 1469.311 $\pm$ 455.747 χ^2 /NDF: 54.5/59

In: 1824.834 $\pm$ 432.117 χ^2 /NDF: 45.1/50

Out: 1076.651 $\pm$ 421.904 χ^2 /NDF: 56.2/56

All: 1441.796 $\pm$ 301.877 χ^2 /NDF: 102.9/107

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2461.225 $\pm$ 0.462 χ^2 /NDF: 306227.8/27

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

Right Out: 2503.360 $\pm$ 0.450 χ^2 /NDF: 638807.6/31

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

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

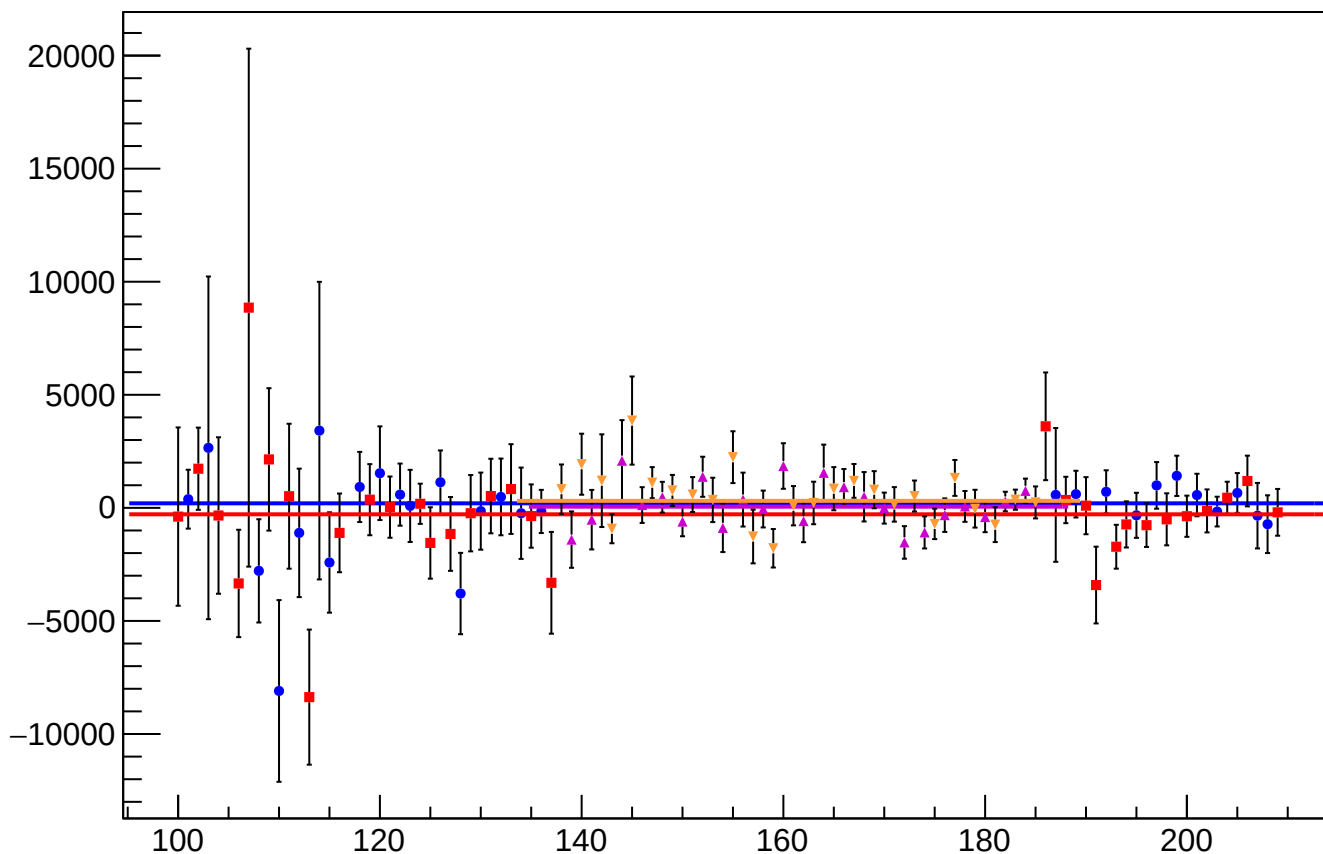
Right: 2482.879 $\pm$ 0.322 χ^2 /NDF: 949305.6/59

In: 2427.555 $\pm$ 0.306 χ^2 /NDF: 329400.1/50

Out: 2454.486 $\pm$ 0.298 χ^2 /NDF: 742566.9/56

All: 2441.343 $\pm$ 0.213 χ^2 /NDF: 1075944.0/106

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 200.549 $\pm$ 243.845 χ^2 /NDF: 18.9/27

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

Right Out: -285.084 $\pm$ 236.049 χ^2 /NDF: 27.6/31

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

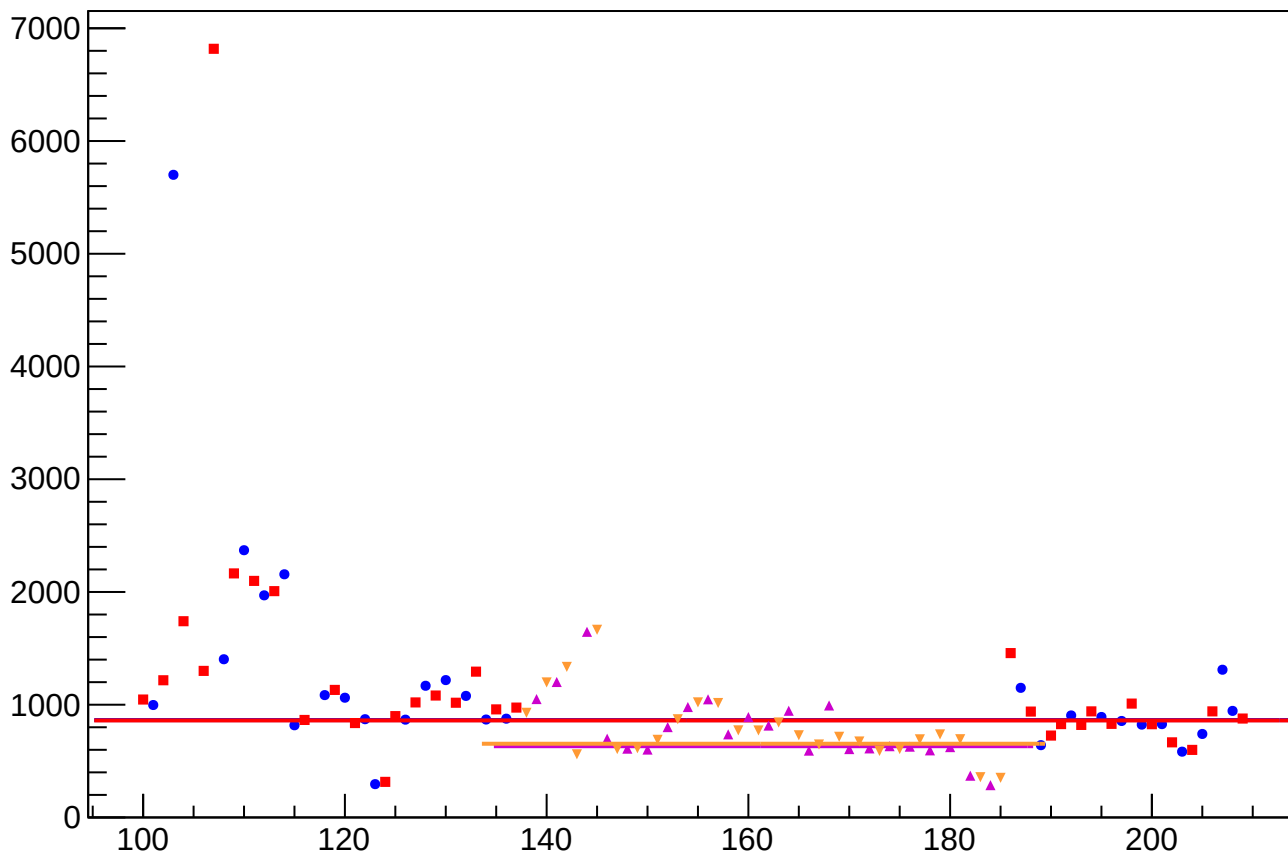
Right: -50.155 $\pm$ 169.601 χ^2 /NDF: 48.5/59

In: 97.009 $\pm$ 134.788 χ^2 /NDF:43.0/50

Out: 122.216 $\pm$ 132.810 χ^2 /NDF:61.7/56

All: 109.799 $\pm$ 94.602 χ^2 /NDF: 104.7/107

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 863.665 $\pm$ 0.172 χ^2 /NDF: 2823910.2/27

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

Right Out: 860.669 $\pm$ 0.167 χ^2 /NDF: 3332427.8/31

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

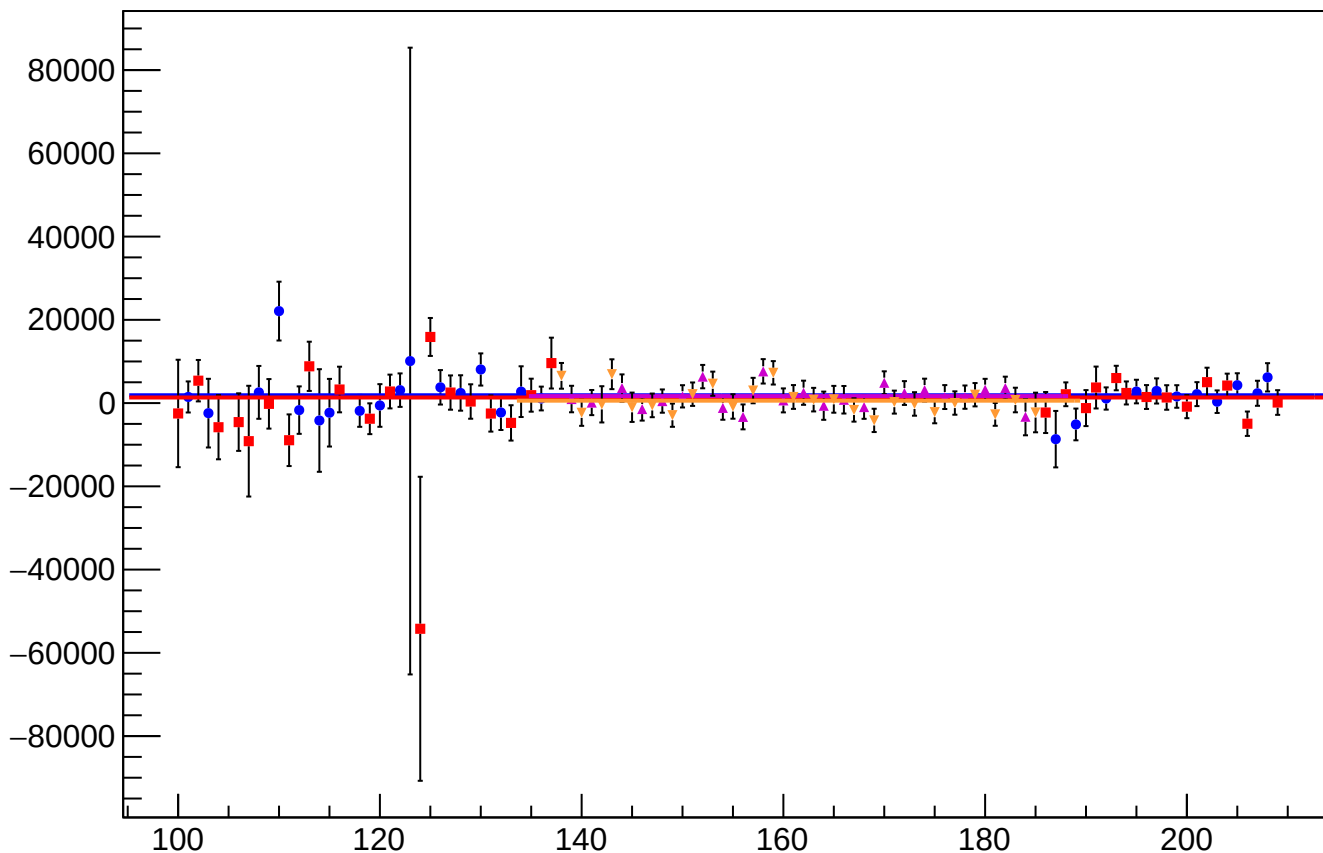
Right: 862.119 $\pm$ 0.120 χ^2 /NDF: 6156493.8/59

In: 702.821 $\pm$ 0.095 χ^2 /NDF: 8019823.8/50

Out: 719.289 $\pm$ 0.094 χ^2 /NDF: 7636924.4/56

All: 711.177 $\pm$ 0.067 χ^2 /NDF: 15671896.0/10

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1881.426+/-722.523 χ^2/NDF : 23.3/27

Left Out: 580.879+/-597.173 χ^2/NDF : 25.3/24

Right Out: 1344.594+/-705.384 χ^2/NDF : 38.2/31

Left In: 1679.572+/-610.111 χ^2/NDF : 18.2/22

Left: 1118.453+/-426.766 χ^2/NDF : 45.2/47

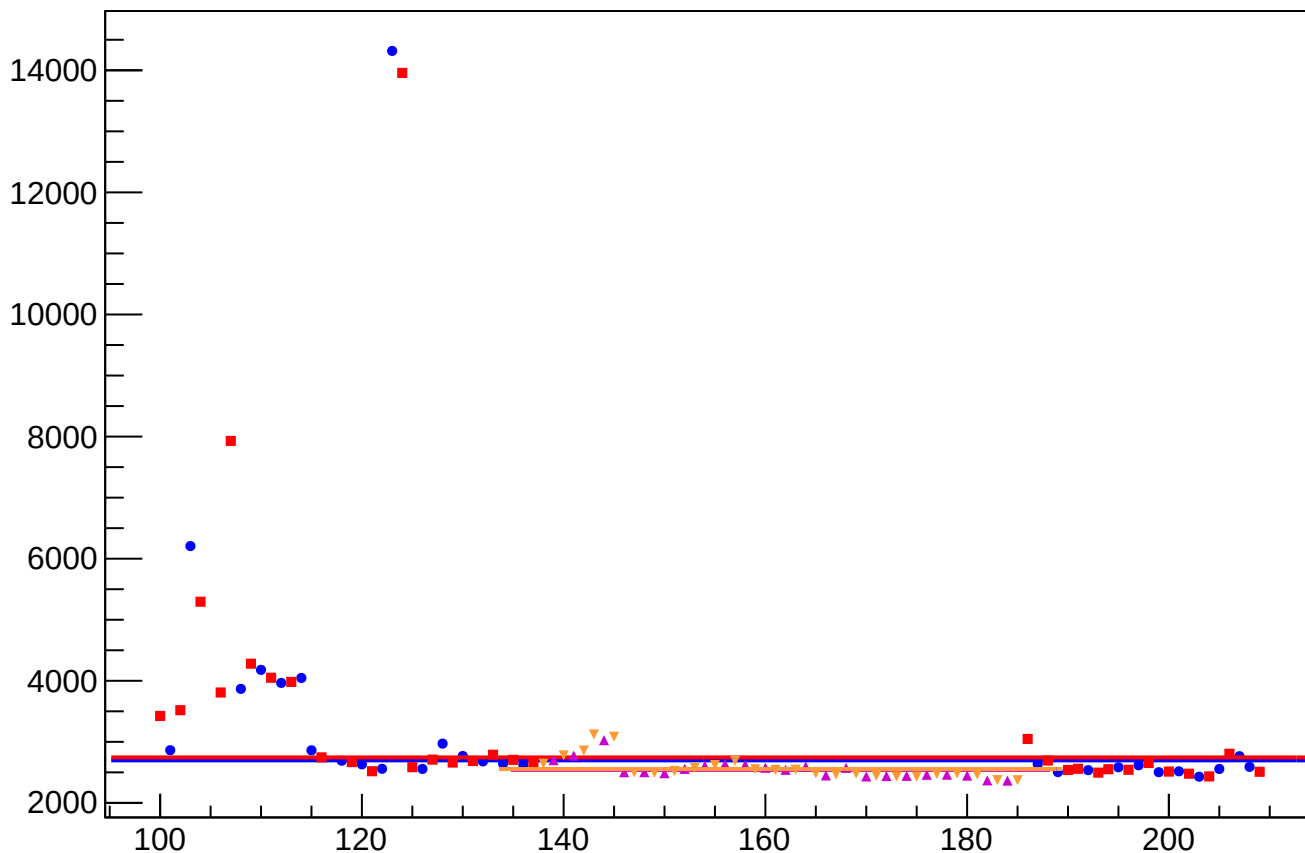
Right: 1606.568+/-504.732 χ^2/NDF : 61.9/59

In: 1763.593+/-466.149 χ^2/NDF : 41.5/50

Out: 899.725+/-455.775 χ^2/NDF : 64.3/56

All: 1321.940+/-325.887 χ^2/NDF : 107.6/107

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2696.839+/-0.511 χ^2/NDF : 771380.6/27

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

Right Out: 2744.803+/-0.499 χ^2/NDF : 1247587.7/31

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

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

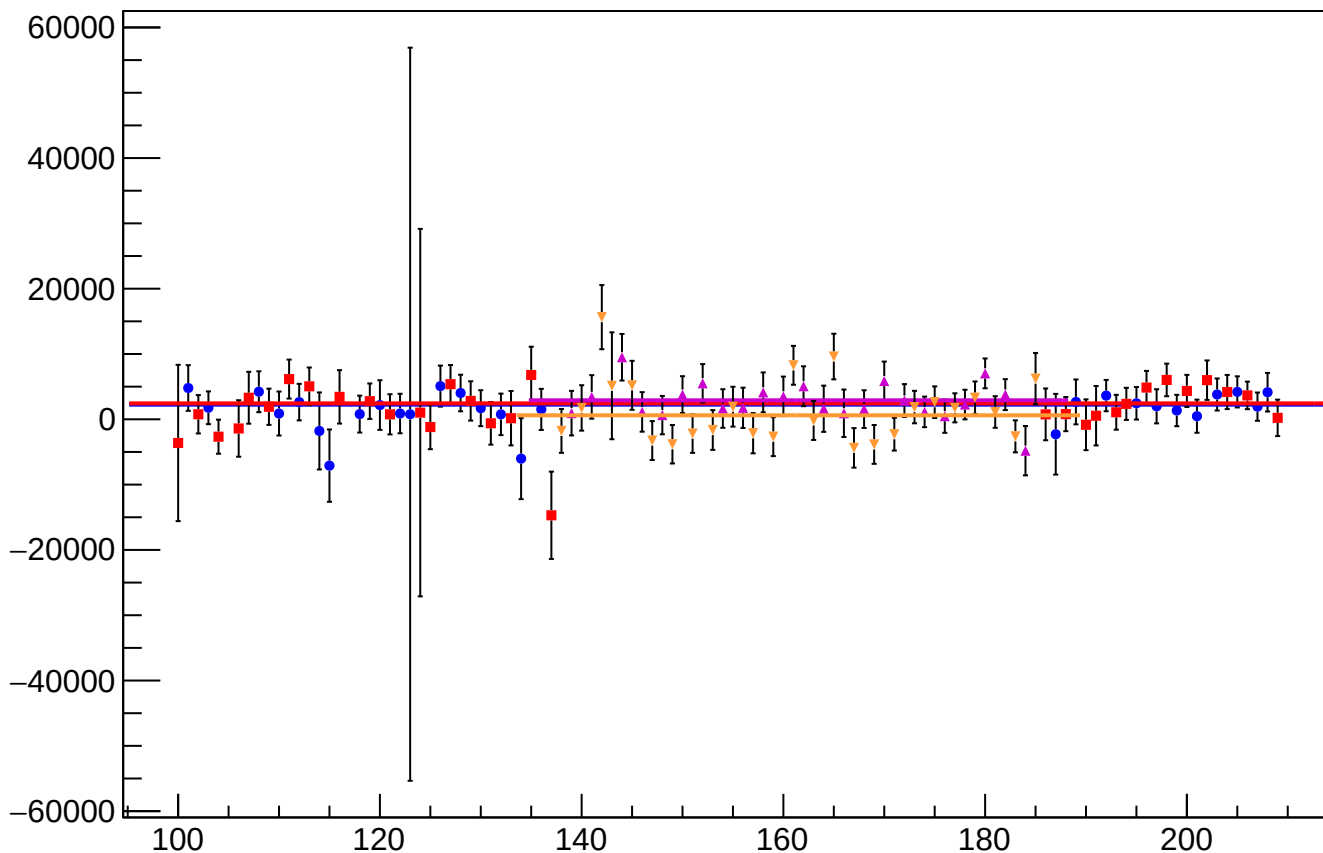
Right: 2721.397+/-0.357 χ^2/NDF : 2023481.0/59

In: 2605.860+/-0.330 χ^2/NDF : 920459.9/50

Out: 2634.404+/-0.322 χ^2/NDF : 1486433.6/56

All: 2620.453+/-0.230 χ^2/NDF : 2410727.5/100

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2242.489 $\pm$ 567.766 χ^2 /NDF: 11.3/27

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

Right Out: 2436.862 $\pm$ 549.547 χ^2 /NDF: 27.0/31

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

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

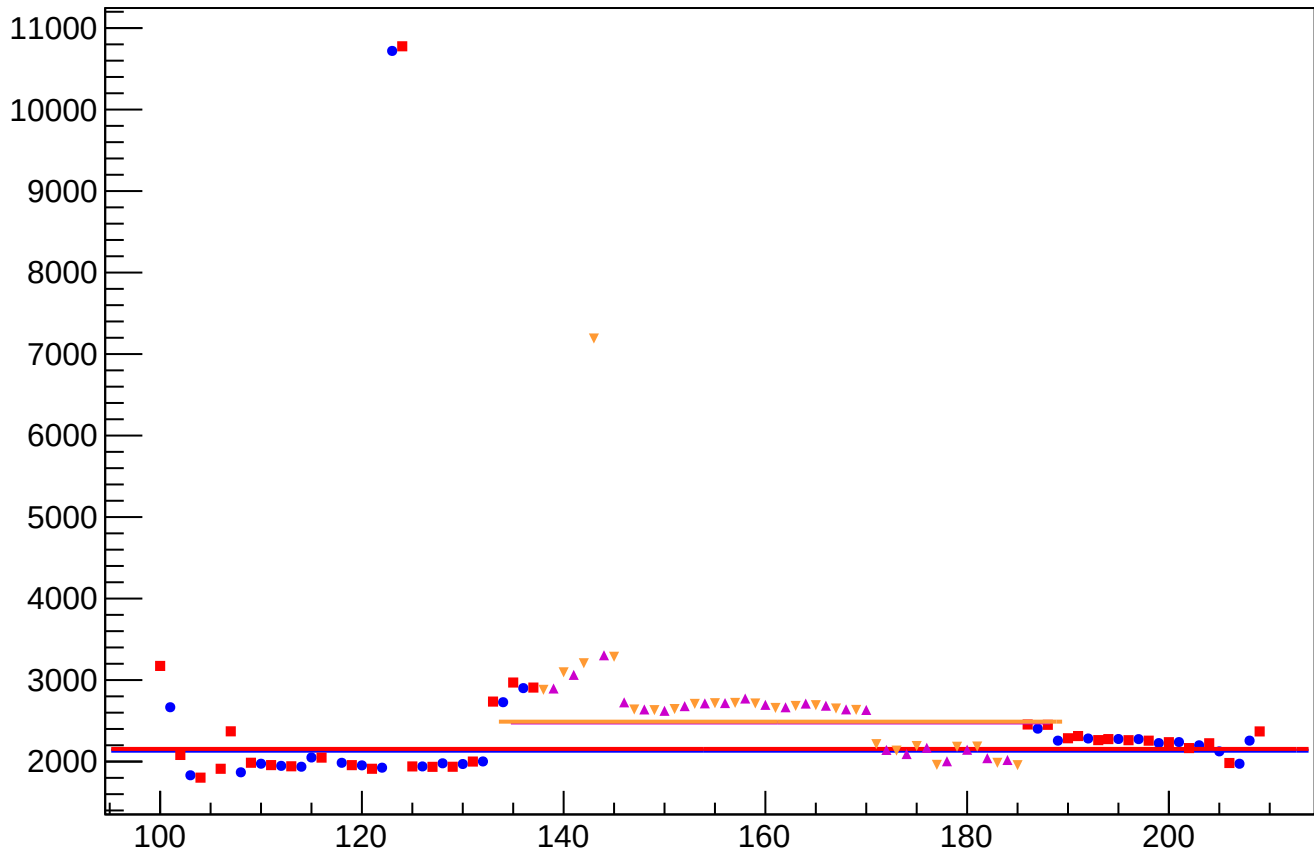
Right: 2342.844 $\pm$ 394.873 χ^2 /NDF: 38.4/59

In: 2557.593 $\pm$ 412.290 χ^2 /NDF: 29.3/50

Out: 1592.223 $\pm$ 402.493 χ^2 /NDF: 77.3/56

All: 2063.301 $\pm$ 288.007 χ^2 /NDF: 109.4/107

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2133.262 $\pm$ 0.401 χ^2 /NDF: 382713.1/27

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

Right Out: 2155.193 $\pm$ 0.389 χ^2 /NDF: 559361.7/31

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

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

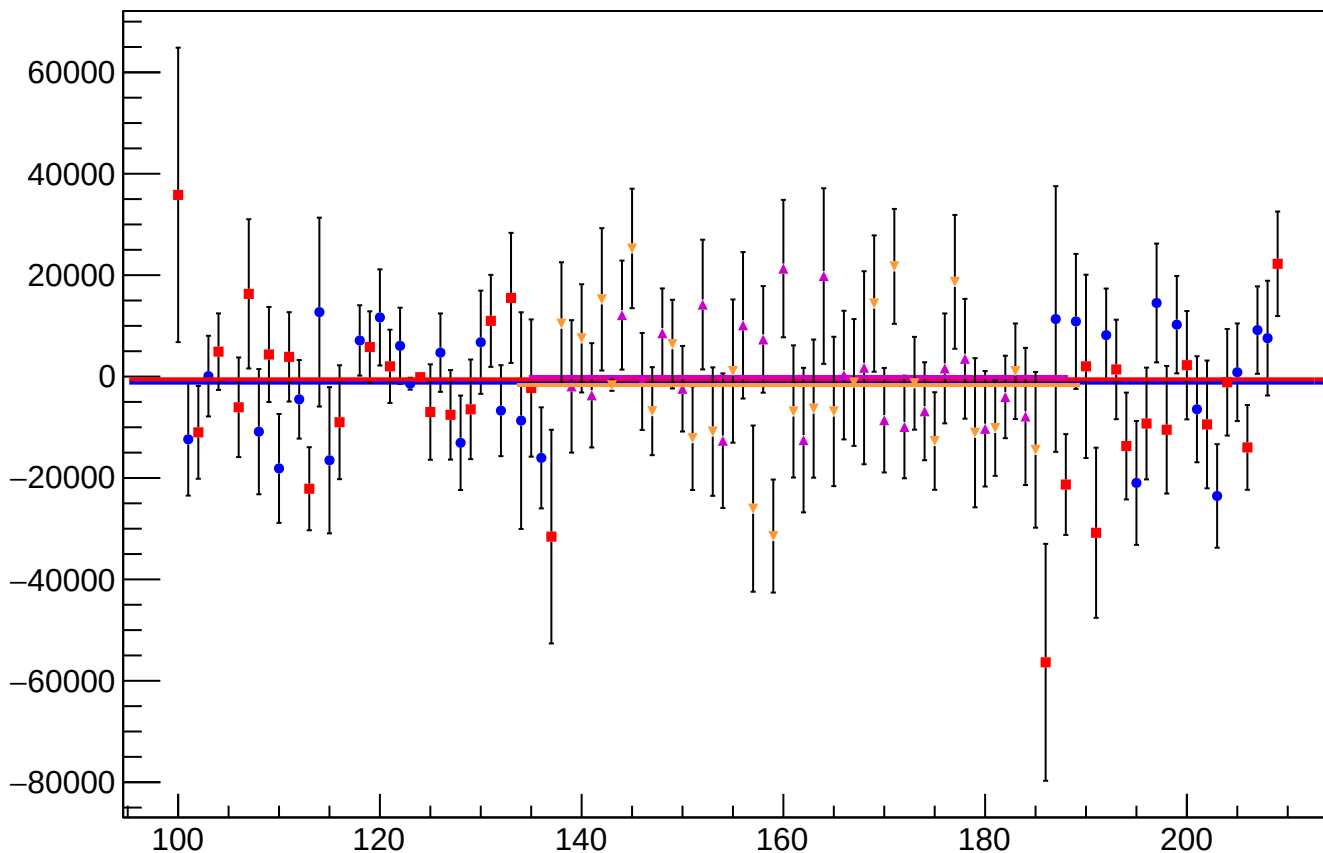
Right: 2144.585 $\pm$ 0.279 χ^2 /NDF: 943615.5/59

In: 2296.853 $\pm$ 0.292 χ^2 /NDF: 1402378.2/50

Out: 2310.205 $\pm$ 0.285 χ^2 /NDF: 2266834.4/56

All: 2303.690 $\pm$ 0.204 χ^2 /NDF: 3670286.7/10

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1198.134 ± 1003.217 $\chi^2/\text{NDF}: 30.8/27$

Left Out: -1665.417 ± 993.060 $\chi^2/\text{NDF}: 32.4/24$

Right Out: -538.755 ± 679.061 $\chi^2/\text{NDF}: 45.4/31$

Left In: -80.274 ± 2331.531 $\chi^2/\text{NDF}: 13.8/22$

Left: -1422.008 ± 913.639 $\chi^2/\text{NDF}: 46.6/47$

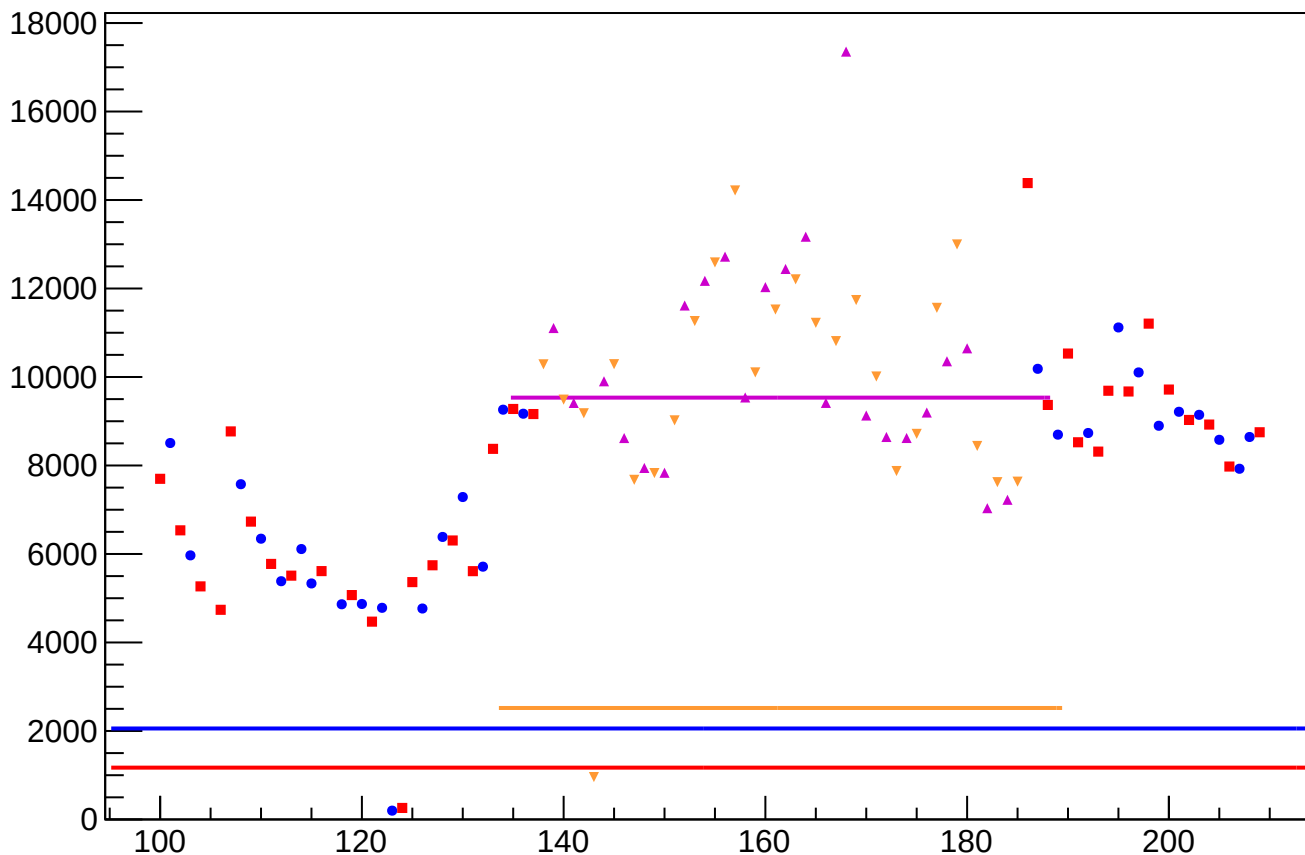
Right: -745.938 ± 562.347 $\chi^2/\text{NDF}: 76.5/59$

In: -1023.501 ± 921.530 $\chi^2/\text{NDF}: 44.8/50$

Out: -897.722 ± 560.539 $\chi^2/\text{NDF}: 78.7/56$

All: -931.691 ± 478.902 $\chi^2/\text{NDF}: 123.5/107$

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2056.044+/-0.709

χ^2/NDF : 20217552.9/27

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

Right: 1449.211+/-0.398 χ^2/NDF : 46625714.6/59

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

In: 3224.183+/-0.652 χ^2/NDF : 38891877.8/50

Right Out: 1171.177+/-0.480

χ^2/NDF : 25341104.9/31

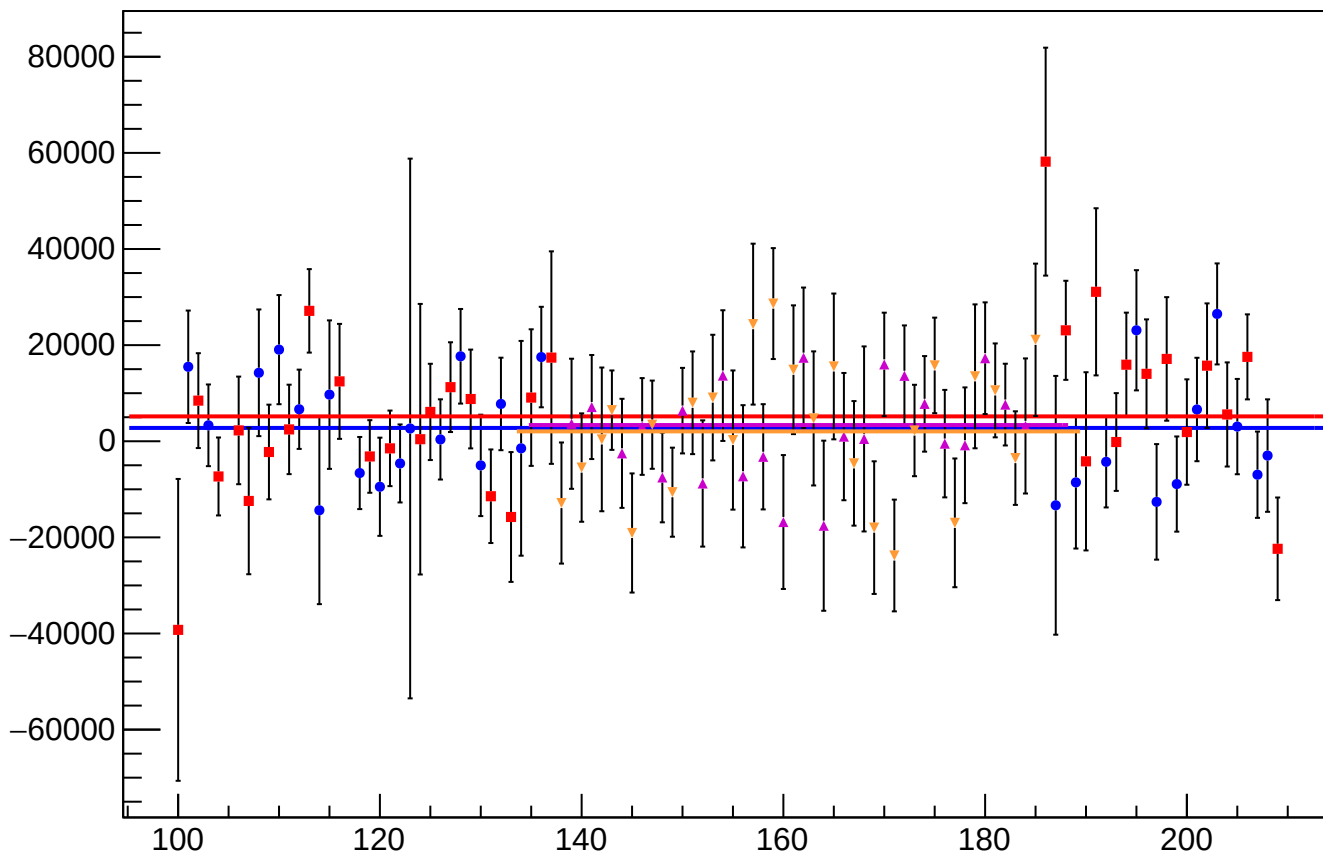
Out: 1600.723+/-0.396 χ^2/NDF : 51494940.0/56

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 2039.169+/-0.339 χ^2/NDF : 94917625.3/1

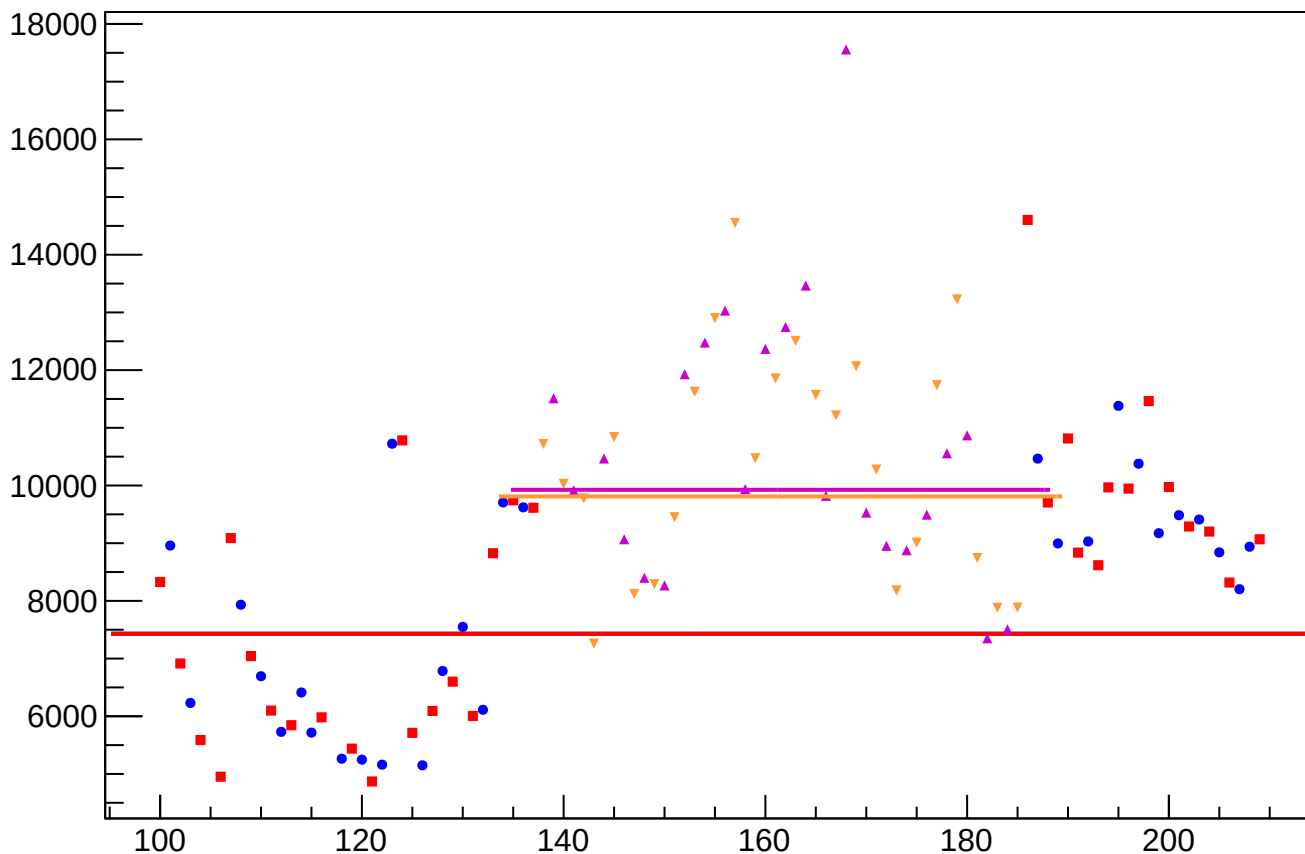
asym_atl2_mean vs Slug, Sign Corrected



Right In: 2772.444+/-2026.660 χ^2/NDF : 28.1/27
 Left Out: 2055.950+/-2333.494 χ^2/NDF :30.7/24
 Right Out: 5174.603+/-1947.884 χ^2/NDF : 44.1/31
 Left In: 3371.931+/-2423.242 χ^2/NDF :13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47
 Right: 4021.116+/-1404.386 χ^2/NDF : 73.0/59
 In: 3019.181+/-1554.620 χ^2/NDF :41.3/50
 Out: 3893.903+/-1495.364 χ^2/NDF :75.9/56
 All: 3473.530+/-1077.722 χ^2/NDF : 117.4/107

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7432.309+/-1.433

χ^2/NDF : 1648239.6/27

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

Right: 7429.969+/-0.993 χ^2/NDF : 3711629.0/59

Left Out: 9811.053+/-1.650

χ^2/NDF : 1213831.0/24

In: 8458.356+/-1.099 χ^2/NDF : 4105420.7/50

Right Out: 7427.808+/-1.377

χ^2/NDF : 2063384.3/31

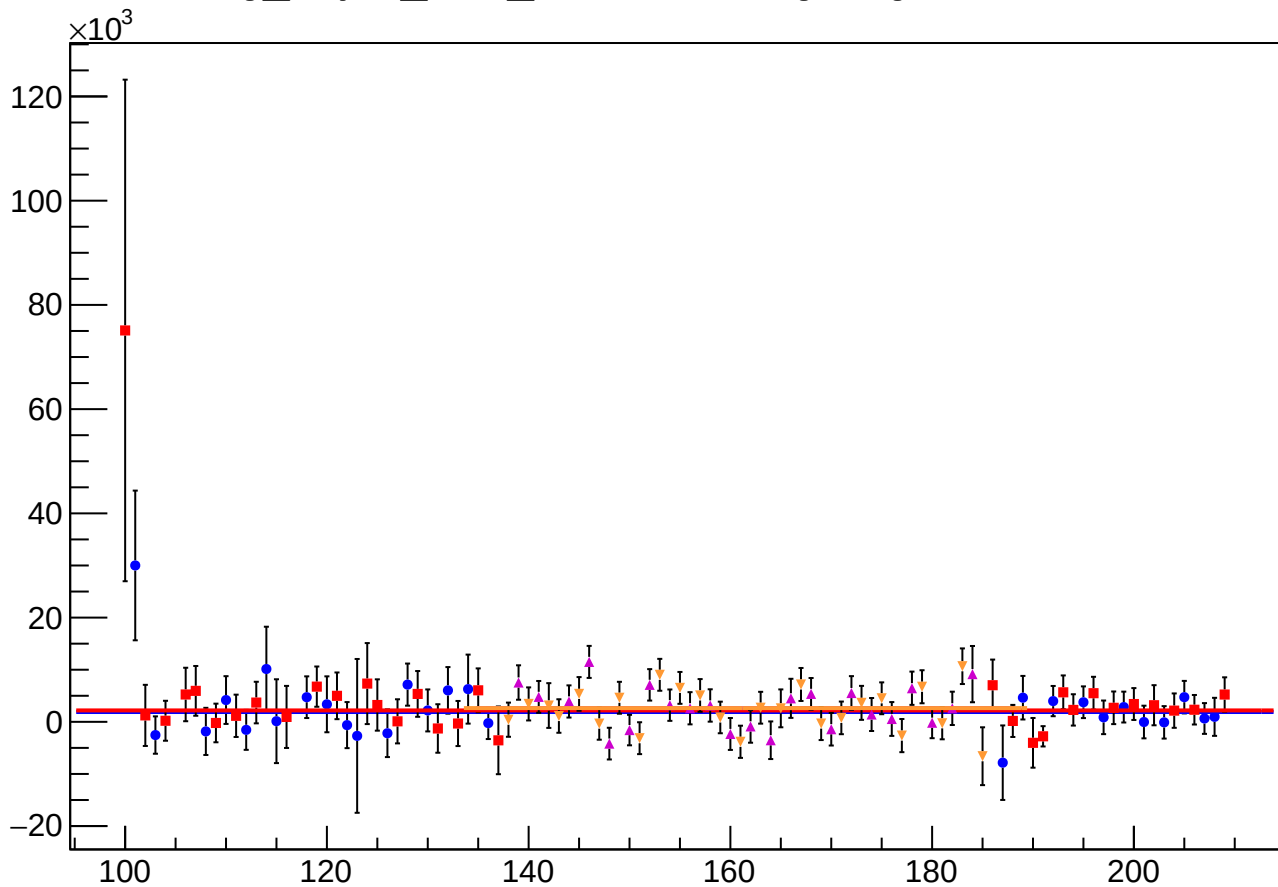
Out: 8406.438+/-1.057 χ^2/NDF : 4506754.2/56

Left In: 9925.337+/-1.713

χ^2/NDF : 1211554.7/22

All: 8431.389+/-0.762 χ^2/NDF : 8613333.6/10

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1884.667 $\pm$ 746.845 χ^2/NDF : 18.7/27

Left Out: 2635.833 $\pm$ 646.121 χ^2/NDF : 35.1/24

Right Out: 2190.209 $\pm$ 672.375 χ^2/NDF : 22.7/31

Left In: 2638.607 $\pm$ 664.569 χ^2/NDF : 35.2/22

Left: 2637.181 $\pm$ 463.261 χ^2/NDF : 70.3/47

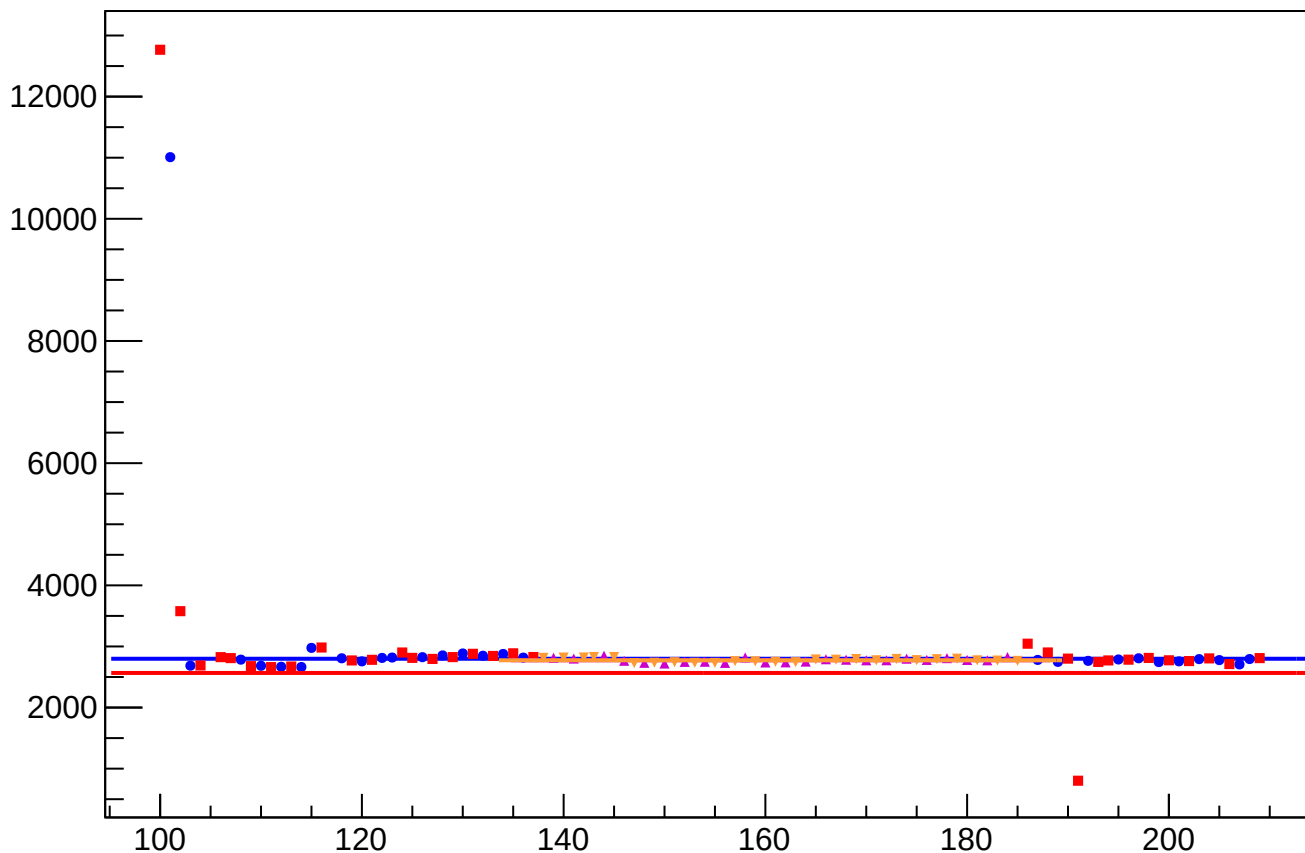
Right: 2053.426 $\pm$ 499.701 χ^2/NDF : 41.5/59

In: 2305.438 $\pm$ 496.472 χ^2/NDF : 54.5/50

Out: 2421.891 $\pm$ 465.881 χ^2/NDF : 58.0/56

All: 2367.362 $\pm$ 339.728 χ^2/NDF : 112.5/107

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2798.804+/-0.528 χ^2/NDF : 666609.2/27

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

Right Out: 2566.382+/-0.475 χ^2/NDF : 2005266.7/31

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

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

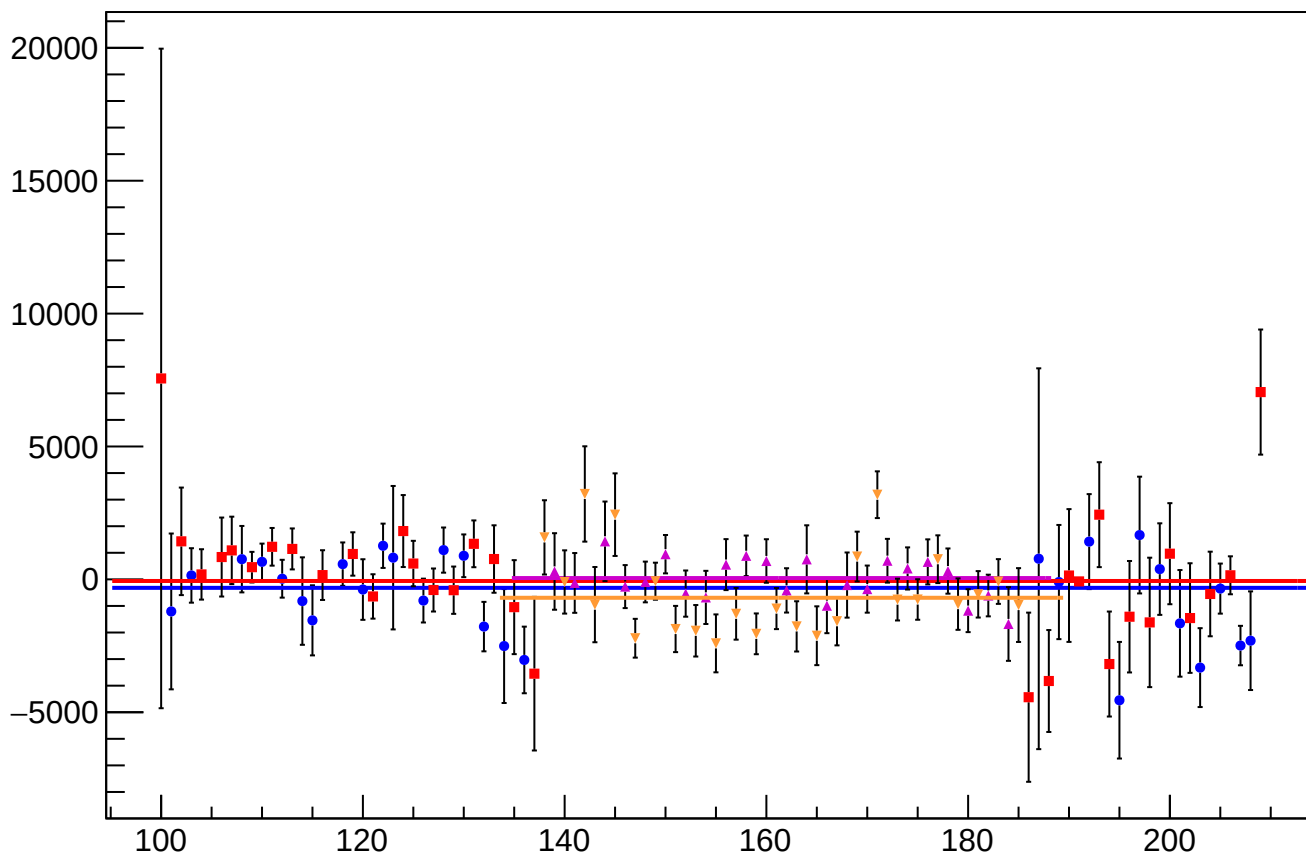
Right: 2670.431+/-0.353 χ^2/NDF : 2778861.1/59

In: 2784.981+/-0.351 χ^2/NDF : 672822.2/50

Out: 2674.174+/-0.329 χ^2/NDF : 2108752.4/56

All: 2726.059+/-0.240 χ^2/NDF : 2834551.5/100

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -319.011 ± 212.003 $\chi^2/\text{NDF}: 42.7/27$

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

Right Out: -60.792 ± 37.818 $\chi^2/\text{NDF}: 39.3/31$

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

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

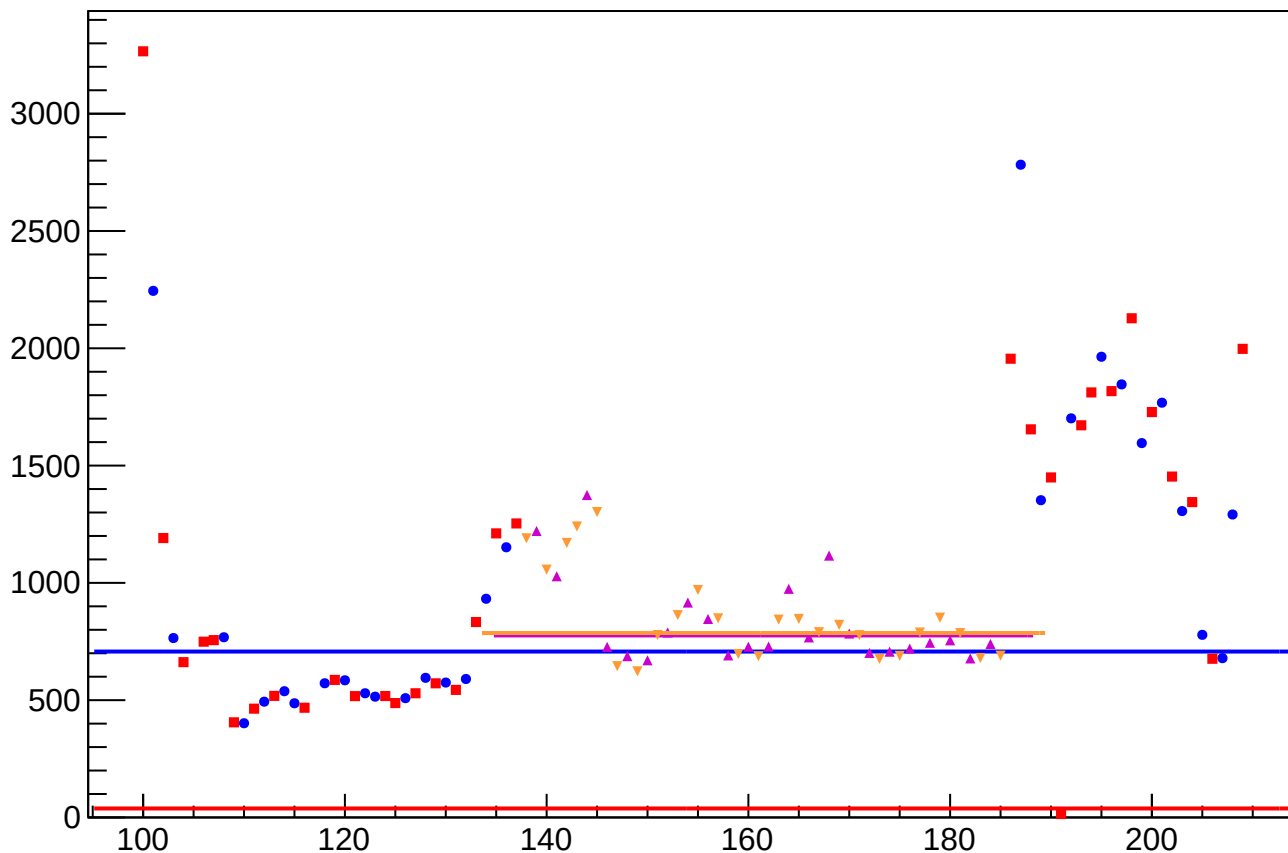
Right: -68.755 ± 37.230 $\chi^2/\text{NDF}: 83.5/59$

In: -114.011 ± 141.156 $\chi^2/\text{NDF}: 58.1/50$

Out: -85.549 ± 37.070 $\chi^2/\text{NDF}: 106.2/56$

All: -87.386 ± 35.854 $\chi^2/\text{NDF}: 164.3/107$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 707.254+/-0.150

χ^2/NDF : 5695025.0/27

Left Out: 786.173+/-0.132

χ^2/NDF : 1249536.1/24

Right Out: 38.240+/-0.027

χ^2/NDF : 28258667.5/31

Left In: 775.930+/-0.134

χ^2/NDF : 1056766.5/22

Left: 781.103+/-0.094

χ^2/NDF : 2309263.4/47

Right: 58.872+/-0.026

χ^2/NDF : 53256094.8/59

In: 745.485+/-0.100

χ^2/NDF : 6868625.0/50

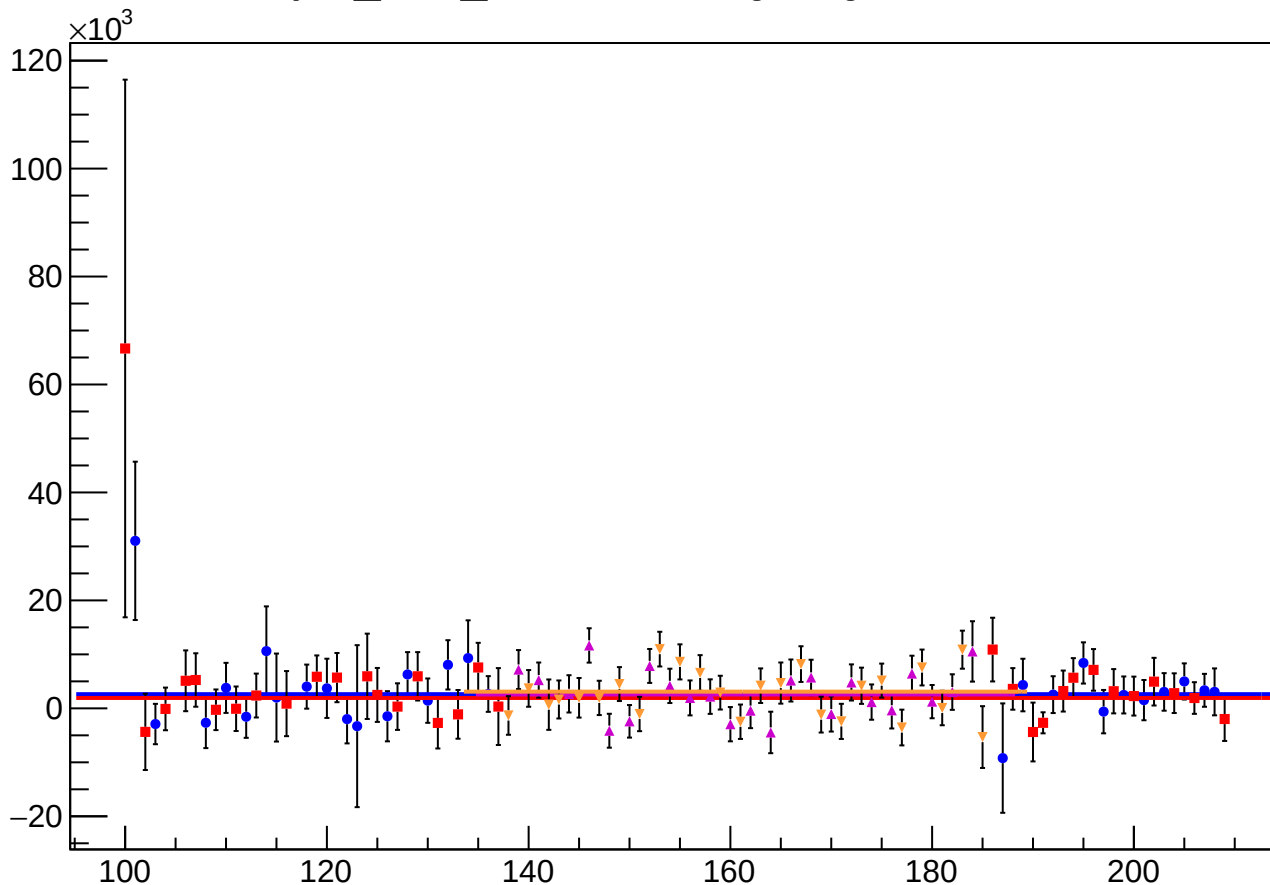
Out: 67.538+/-0.026

χ^2/NDF : 60151688.7/56

All: 111.277+/-0.025

χ^2/NDF : 110177714.4/1

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2625.656 $\pm$ 818.759 χ^2/NDF : 19.8/27

Left Out: 3094.826 $\pm$ 678.510 χ^2/NDF : 38.7/24

Right Out: 1925.450 $\pm$ 734.971 χ^2/NDF : 24.0/31

Left In: 2573.184 $\pm$ 695.795 χ^2/NDF : 35.7/22

Left: 2840.565 $\pm$ 485.775 χ^2/NDF : 74.6/47

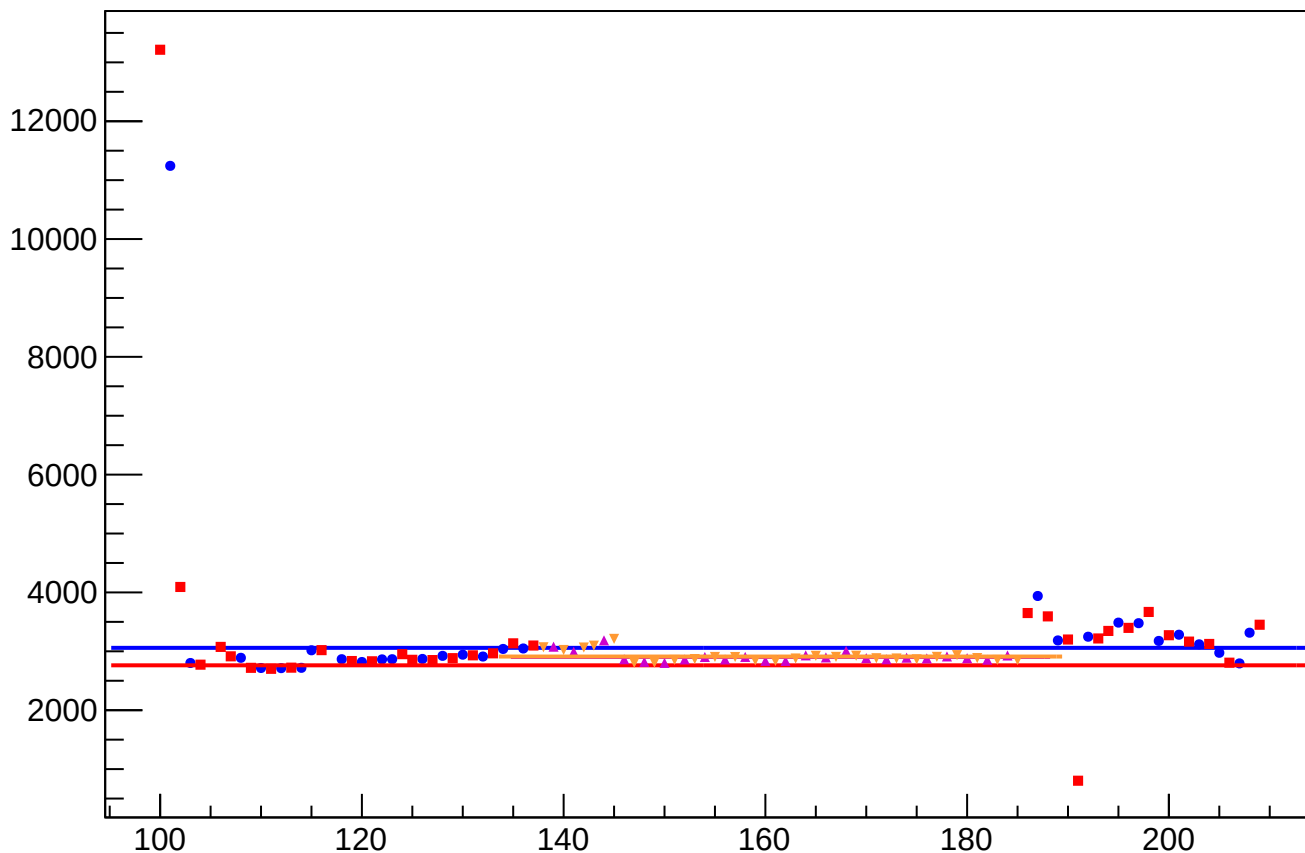
Right: 2237.903 $\pm$ 546.934 χ^2/NDF : 44.2/59

In: 2595.188 $\pm$ 530.201 χ^2/NDF : 55.5/50

Out: 2556.773 $\pm$ 498.546 χ^2/NDF : 64.0/56

All: 2574.800 $\pm$ 363.201 χ^2/NDF : 119.5/107

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3058.831+/-0.579 χ^2/NDF : 789122.1/27

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

Right Out: 2762.195+/-0.520 χ^2/NDF : 2741509.0/31

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

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

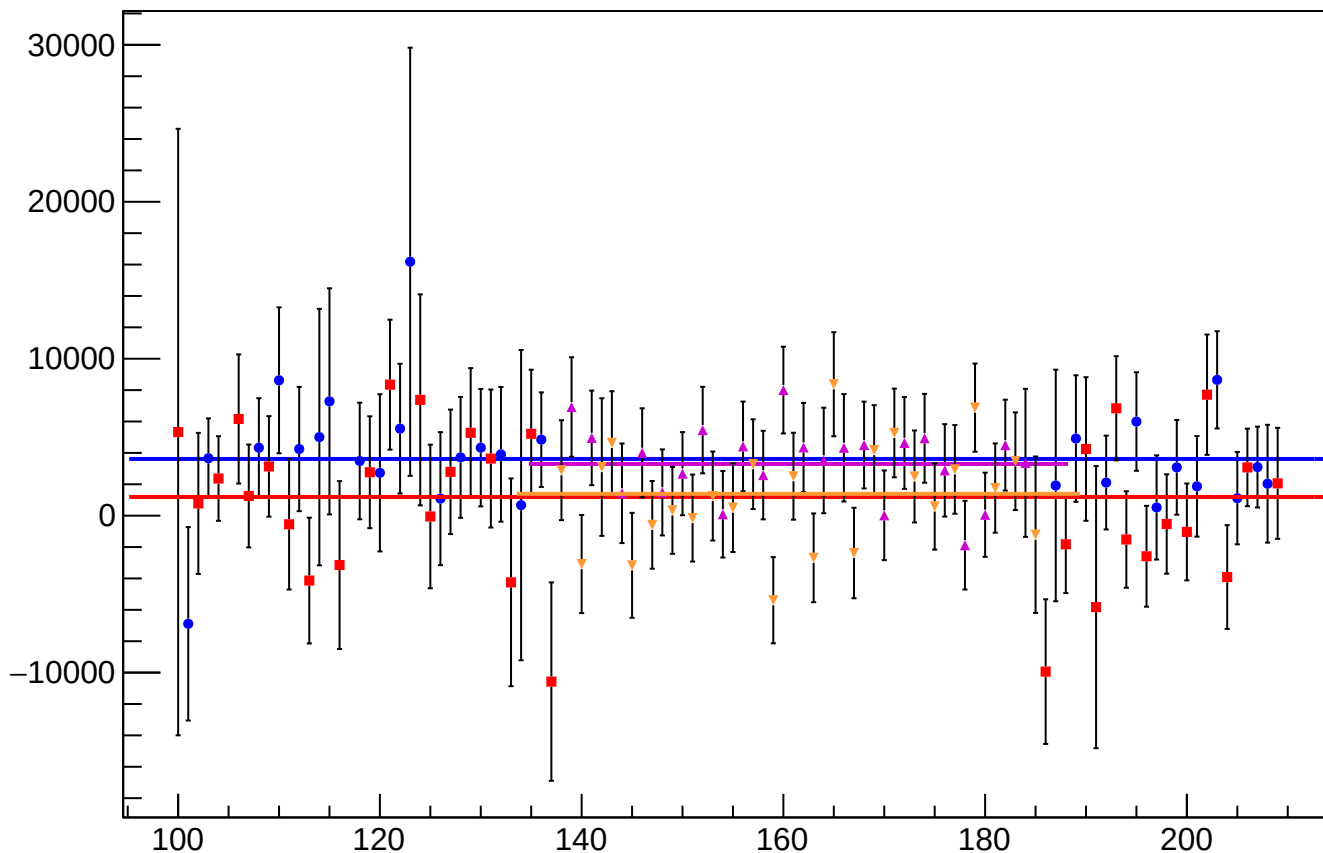
Right: 2894.563+/-0.387 χ^2/NDF : 3676007.7/59

In: 2968.585+/-0.375 χ^2/NDF : 859806.5/50

Out: 2842.654+/-0.353 χ^2/NDF : 2822548.7/56

All: 2901.748+/-0.257 χ^2/NDF : 3742237.3/100

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3614.405 $\pm$ 706.346 χ^2 /NDF: 12.0/27

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

Right Out: 1192.107 $\pm$ 674.776 χ^2 /NDF: 35.0/31

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

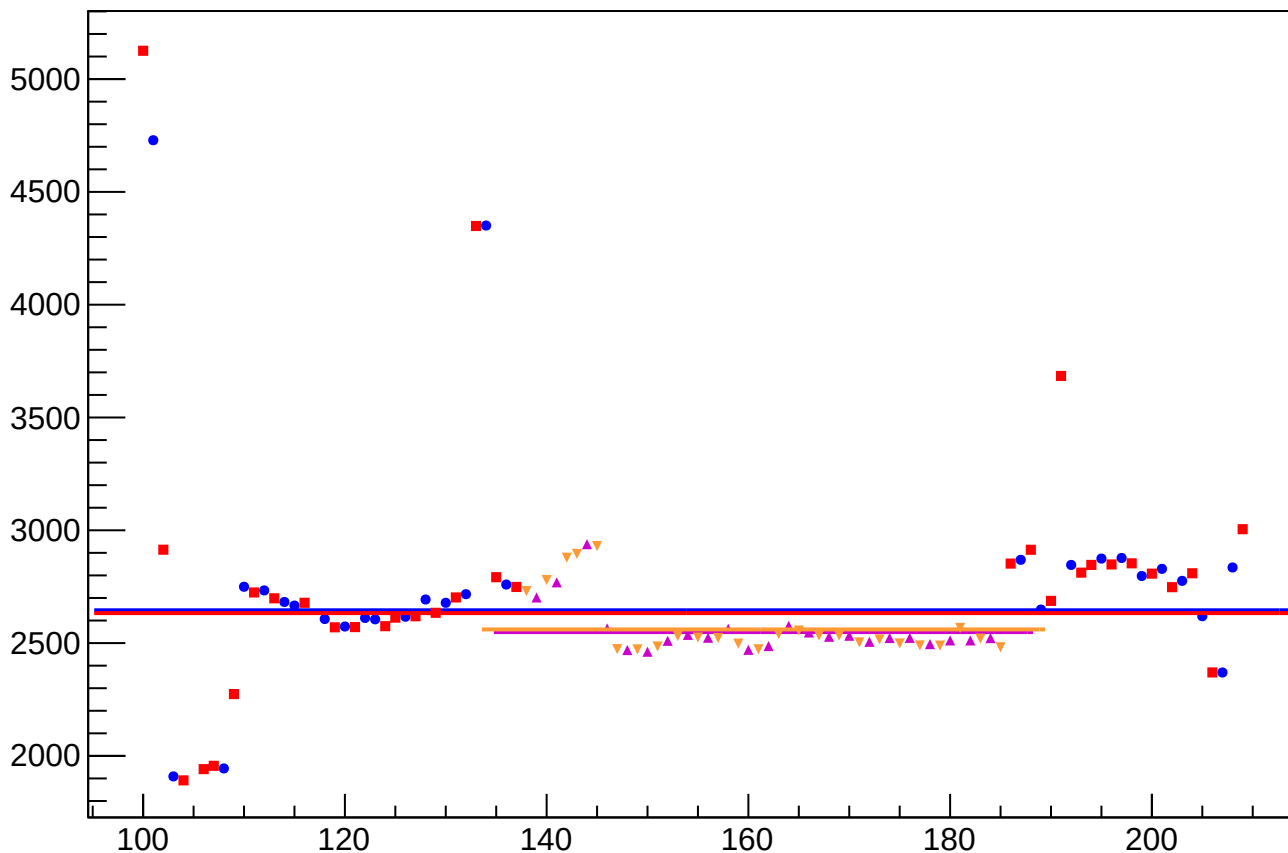
Right: 2347.916 $\pm$ 487.918 χ^2 /NDF: 53.1/59

In: 3431.657 $\pm$ 461.667 χ^2 /NDF: 26.9/50

Out: 1303.344 $\pm$ 446.920 χ^2 /NDF: 64.2/56

All: 2332.967 $\pm$ 321.107 χ^2 /NDF: 102.1/107

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2645.350+/-0.499 χ^2/NDF : 636497.6/27

Left Out: 2560.531+/-0.422 χ^2/NDF : 86771.4/24

Right Out: 2632.931+/-0.477 χ^2/NDF : 642481.7/31

Left In: 2548.870+/-0.431 χ^2/NDF : 55266.2/22

Left: 2554.831+/-0.302 χ^2/NDF : 142411.2/47

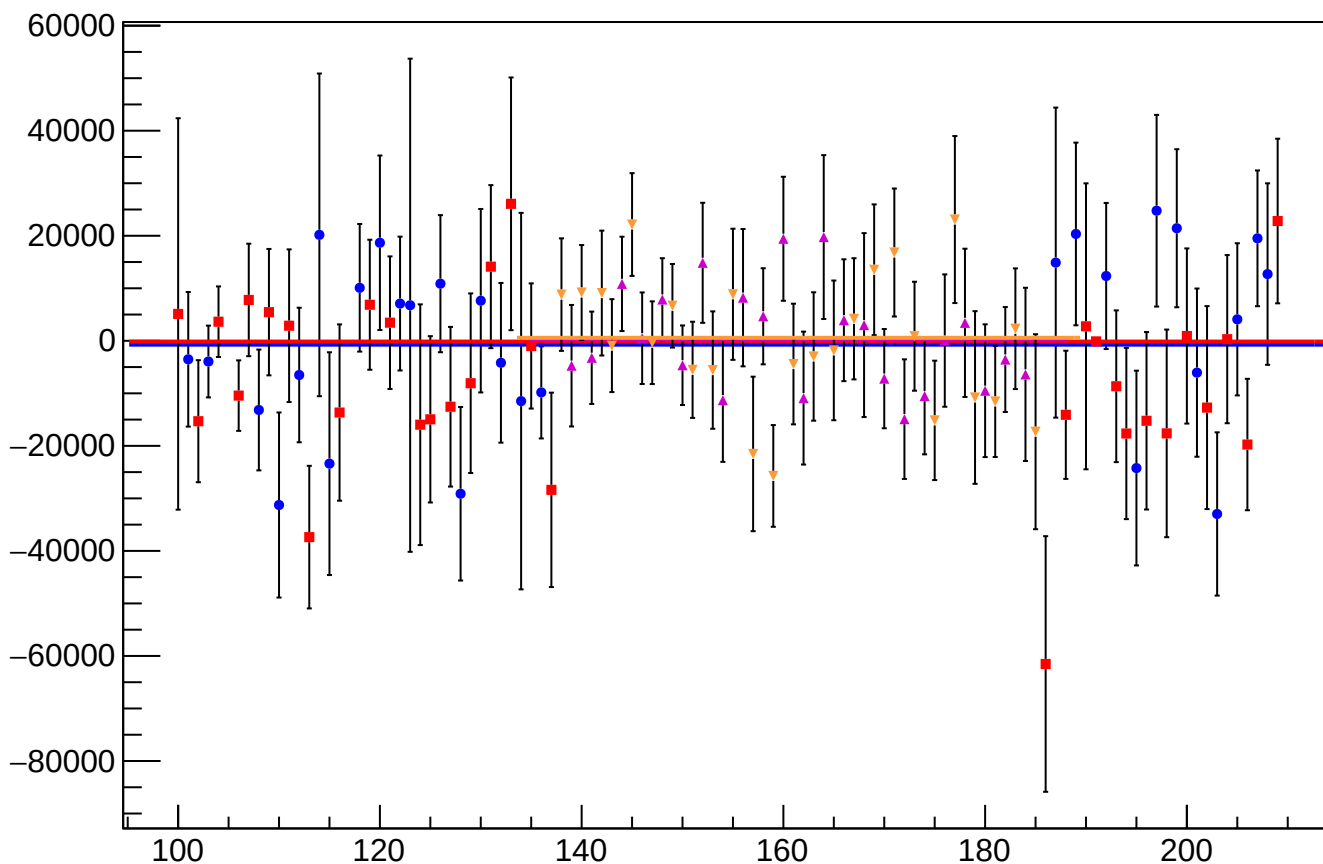
Right: 2638.857+/-0.345 χ^2/NDF : 1279302.6/59

In: 2590.085+/-0.326 χ^2/NDF : 713137.8/50

Out: 2592.291+/-0.316 χ^2/NDF : 742177.3/56

All: 2591.224+/-0.227 χ^2/NDF : 1455338.6/10

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -731.161+/-2694.808 χ^2/NDF : 29.9/27

Left Out: 572.477+/-2184.376 χ^2/NDF : 28.2/24

Right Out: -142.215+/-194.928 χ^2/NDF : 36.2/31

Left In: 275.116+/-2242.836 χ^2/NDF : 15.7/22

Left: 427.723+/-1564.847 χ^2/NDF : 43.9/47

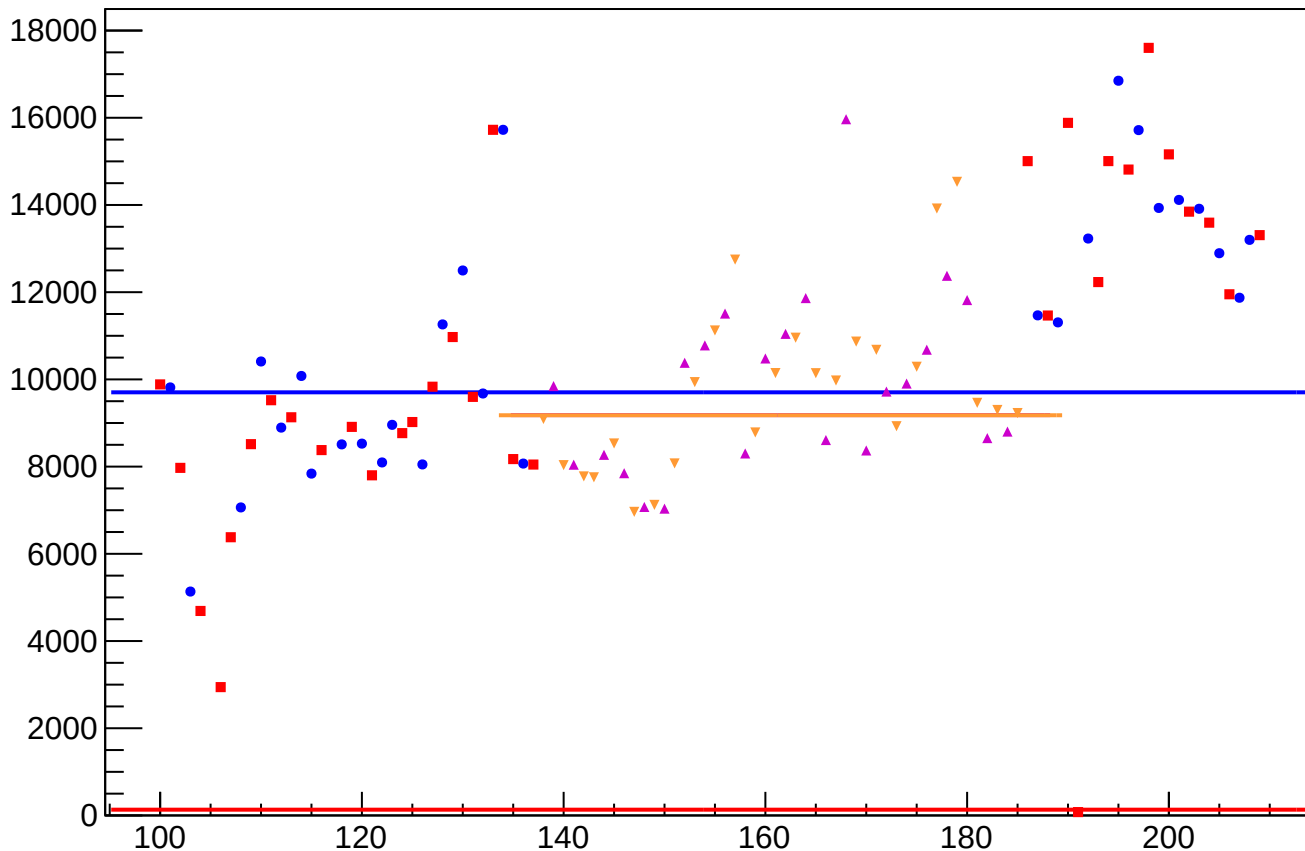
Right: -145.280+/-194.420 χ^2/NDF : 66.2/59

In: -136.677+/-1723.887 χ^2/NDF : 45.7/50

Out: -136.569+/-194.156 χ^2/NDF : 64.5/56

All: -136.570+/-192.936 χ^2/NDF : 110.3/107

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 9703.600+/-1.906

χ^2/NDF : 2673937.3/27

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right: 182.352+/-0.137

χ^2/NDF : 57765172.6/59

Right Out: 132.534+/-0.138

χ^2/NDF : 29993839.6/31

In: 9395.011+/-1.219

χ^2/NDF : 3954799.9/50

Out: 203.994+/-0.137

χ^2/NDF : 65192233.0/56

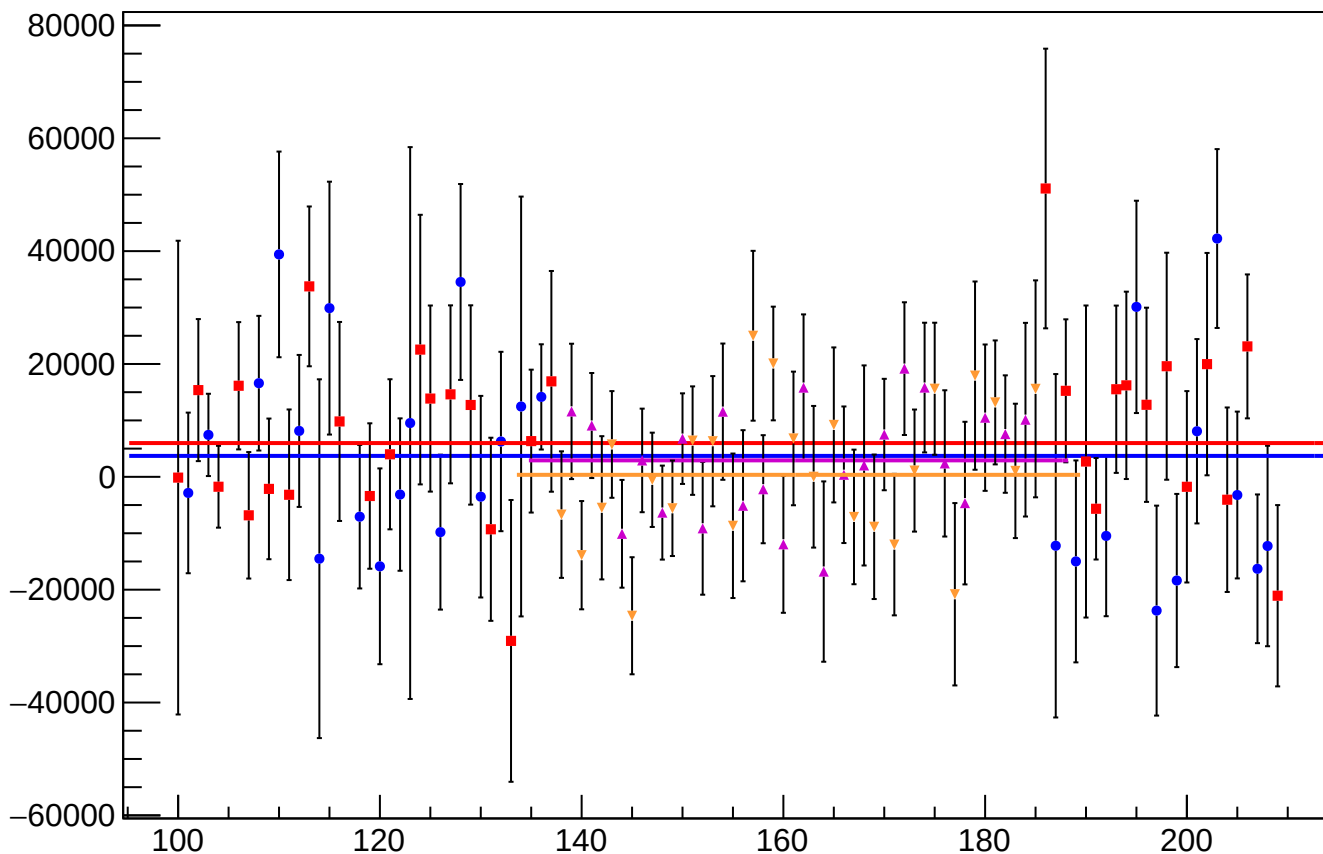
Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

All: 319.120+/-0.136

χ^2/NDF : 125286128.4/1

asym_atr2_mean vs Slug, Sign Corrected



Right In: 3710.968+/-2817.775 χ^2/NDF : 33.0/27

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

Right Out: 5984.331+/-2542.633 χ^2/NDF : 26.1/31

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

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

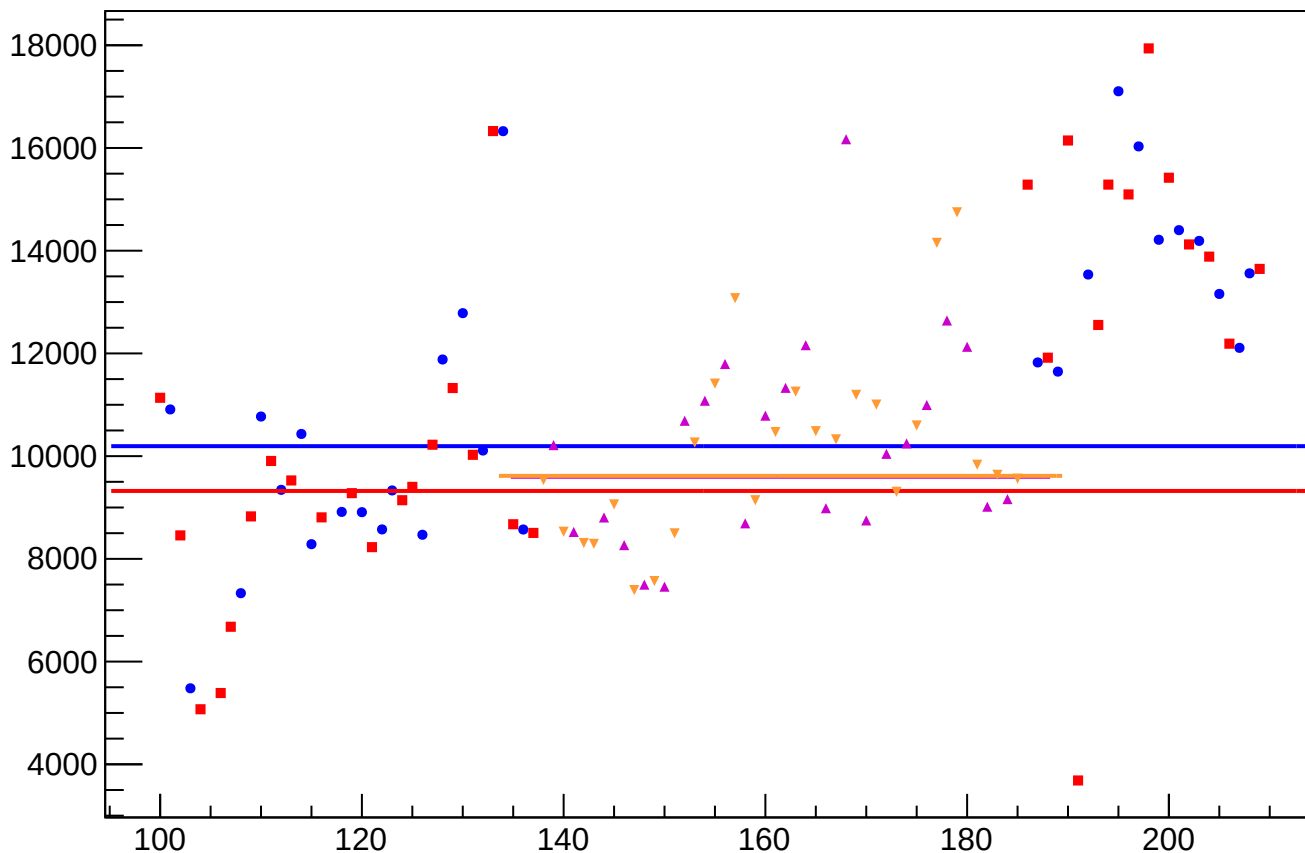
Right: 4964.031+/-1887.712 χ^2/NDF : 59.5/59

In: 3241.613+/-1799.494 χ^2/NDF : 48.0/50

Out: 2866.457+/-1698.180 χ^2/NDF : 55.0/56

All: 3043.177+/-1235.059 χ^2/NDF : 103.1/107

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10194.193+/-1.992

χ^2/NDF : 2435898.9/27

Left: 9607.606+/-1.155 χ^2/NDF : 2093896.0/47

Right: 9713.581+/-1.335 χ^2/NDF : 6652428.6/59

Left Out: 9616.245+/-1.613

χ^2/NDF : 1011665.6/24

In: 9841.465+/-1.272 χ^2/NDF : 3570995.1/50

Right Out: 9322.269+/-1.798

χ^2/NDF : 4110971.9/31

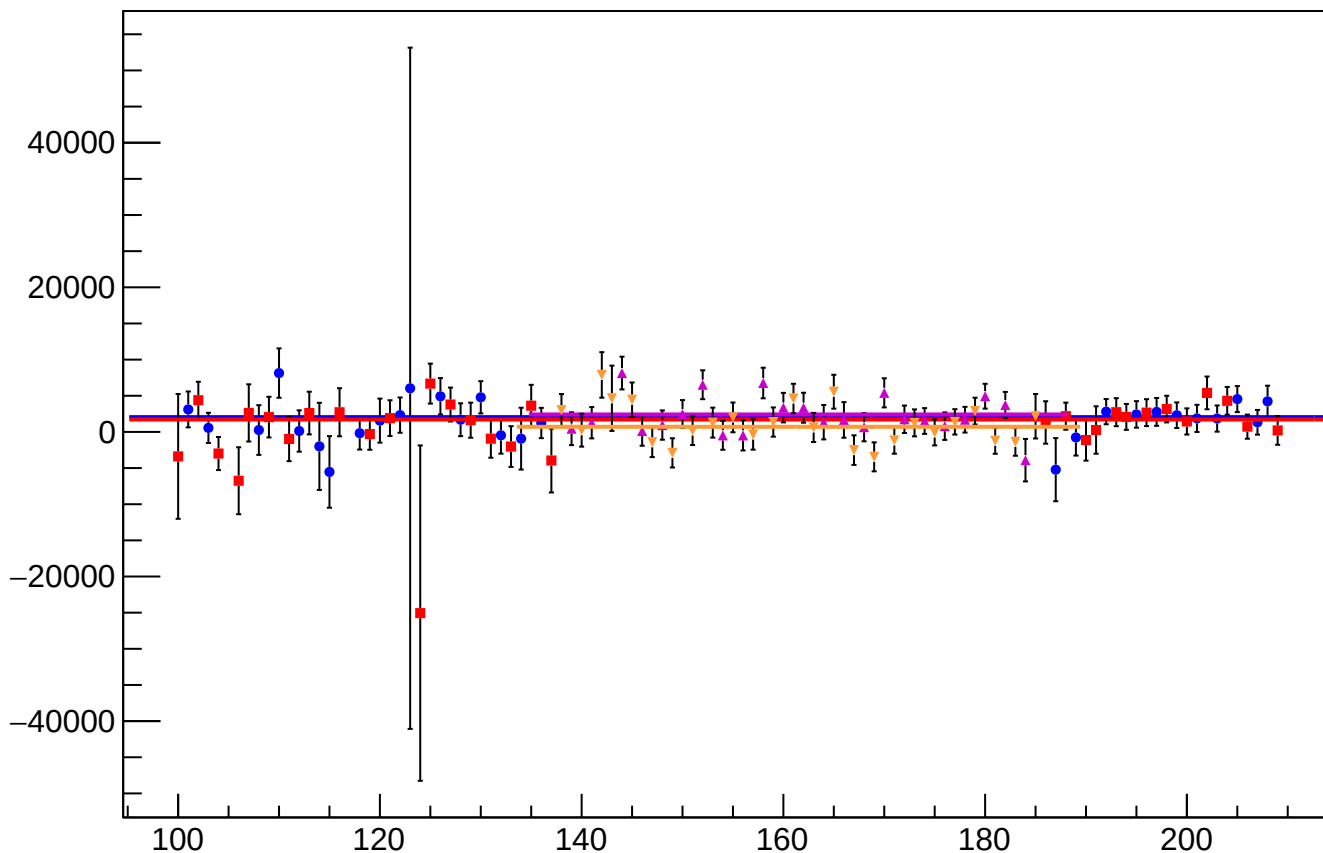
Out: 9485.108+/-1.201 χ^2/NDF : 5137447.6/56

Left In: 9598.531+/-1.654

χ^2/NDF : 1082171.6/22

All: 9652.970+/-0.873 χ^2/NDF : 8749929.8/10

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 2045.695+/-443.071 χ^2/NDF : 20.4/27

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

Right Out: 1715.013+/-431.644 χ^2/NDF : 28.9/31

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

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

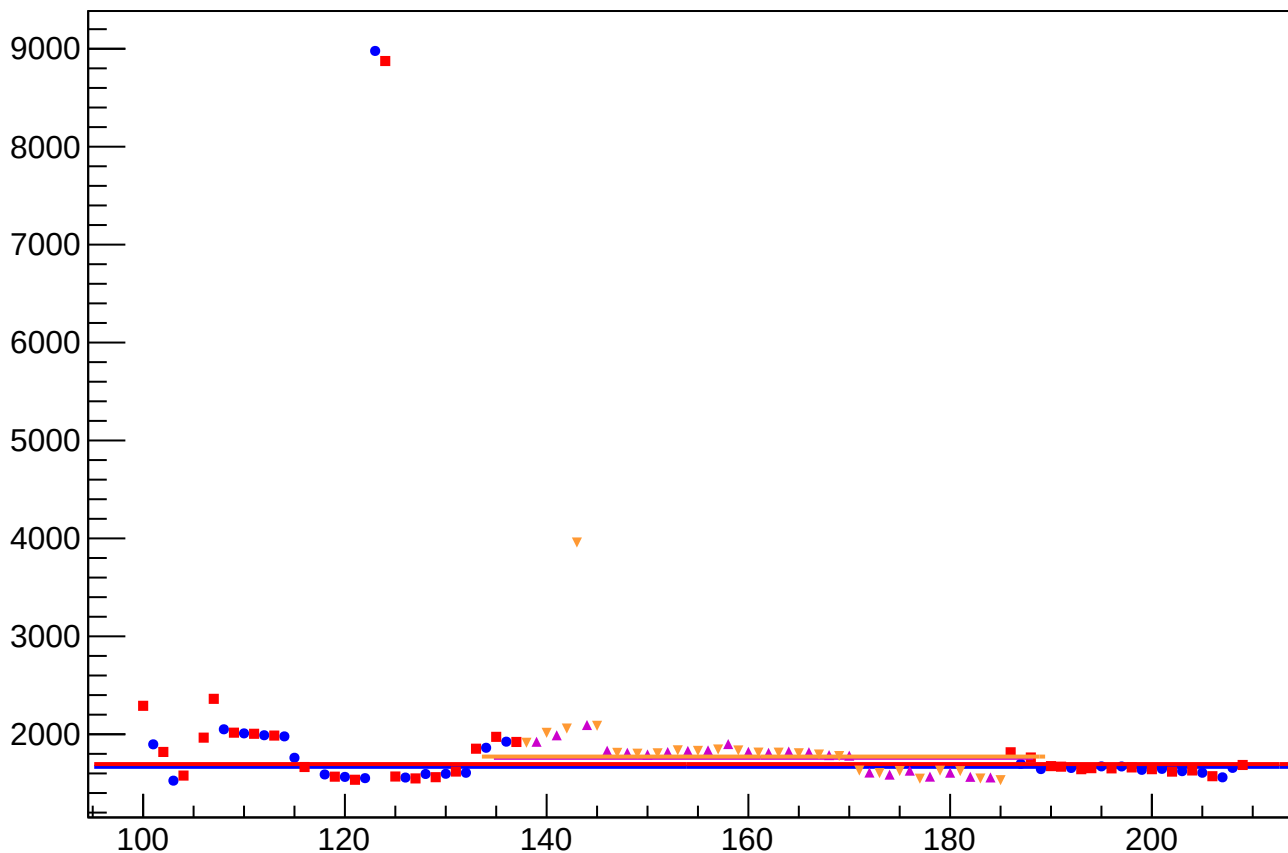
Right: 1876.035+/-309.179 χ^2/NDF : 49.6/59

In: 2238.565+/-306.134 χ^2/NDF :54.8/50

Out: 1195.480+/-300.047 χ^2/NDF :66.6/56

All: 1706.550+/-214.285 χ^2/NDF : 127.3/107

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1667.424+/-0.313 χ^2/NDF : 215732.4/27

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

Right Out: 1695.530+/-0.305 χ^2/NDF : 436495.4/31

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

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

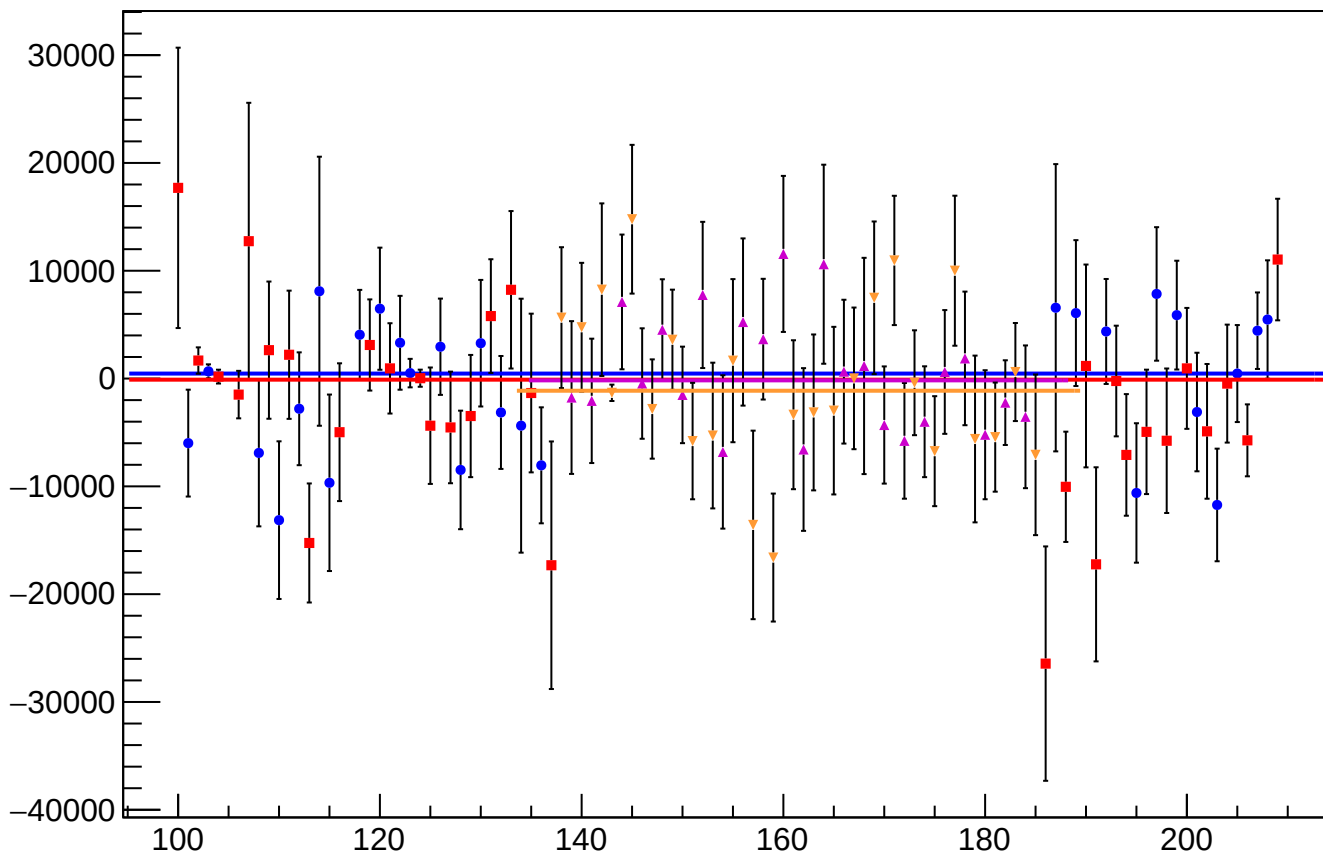
Right: 1681.870+/-0.218 χ^2/NDF : 656364.4/59

In: 1715.595+/-0.216 χ^2/NDF : 475860.5/50

Out: 1735.003+/-0.212 χ^2/NDF : 1171508.4/56

All: 1725.503+/-0.151 χ^2/NDF : 1651472.0/100

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 461.656 ± 512.211 χ^2/NDF : 32.4/27

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

Right Out: -103.697 ± 418.077 χ^2/NDF : 44.9/31

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

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

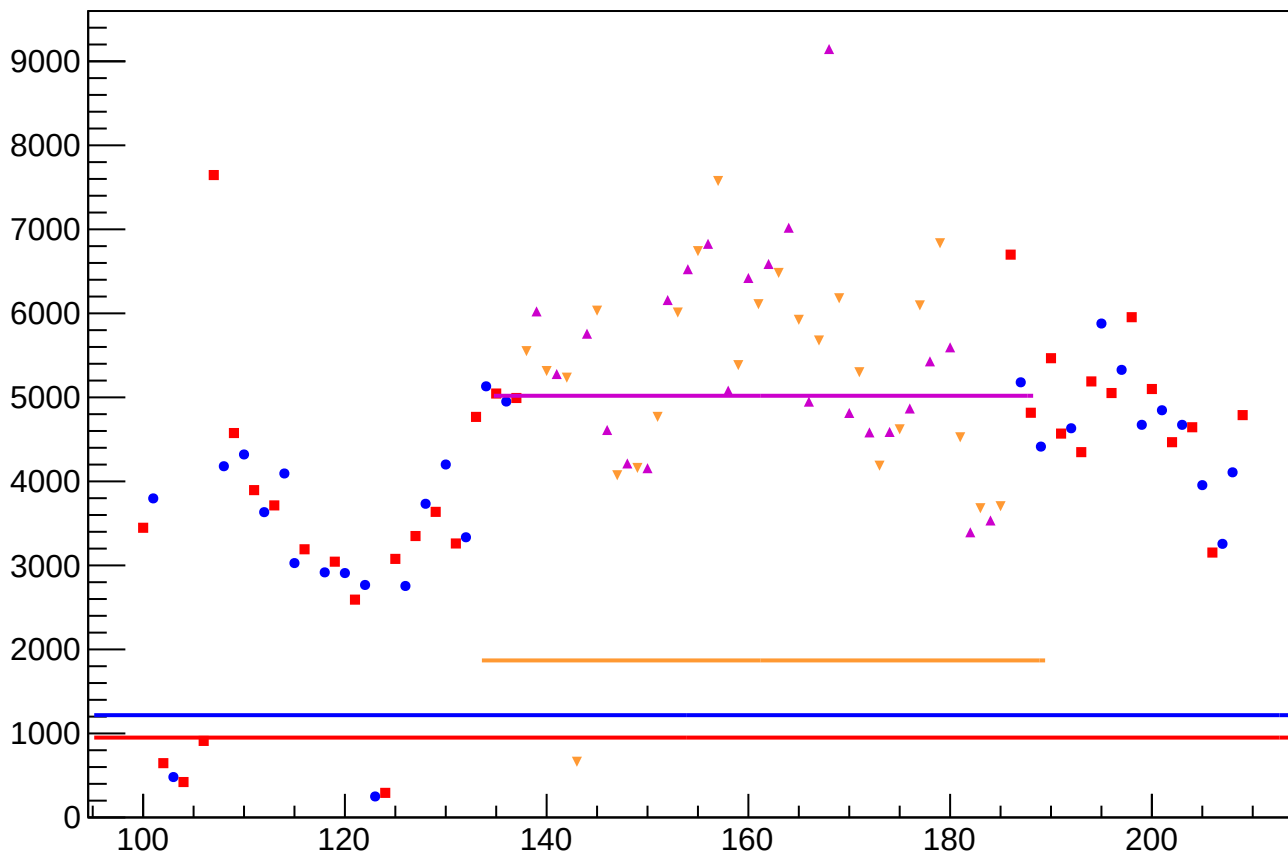
Right: 122.353 ± 323.885 χ^2/NDF : 77.9/59

In: 368.885 ± 472.986 χ^2/NDF : 46.7/50

Out: -405.549 ± 351.242 χ^2/NDF : 78.1/56

All: -130.278 ± 281.991 χ^2/NDF : 126.6/107

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1217.438+/-0.362

χ^2/NDF : 17178909.4/27

Left: 2550.597+/-0.405 χ^2/NDF : 31661059.7/47

Right: 1057.288+/-0.229 χ^2/NDF : 37710427.1/59

Left Out: 1868.983+/-0.458

χ^2/NDF : 19852416.6/24

In: 1777.402+/-0.334 χ^2/NDF : 34976058.0/50

Right Out: 950.592+/-0.296

χ^2/NDF : 20205739.2/31

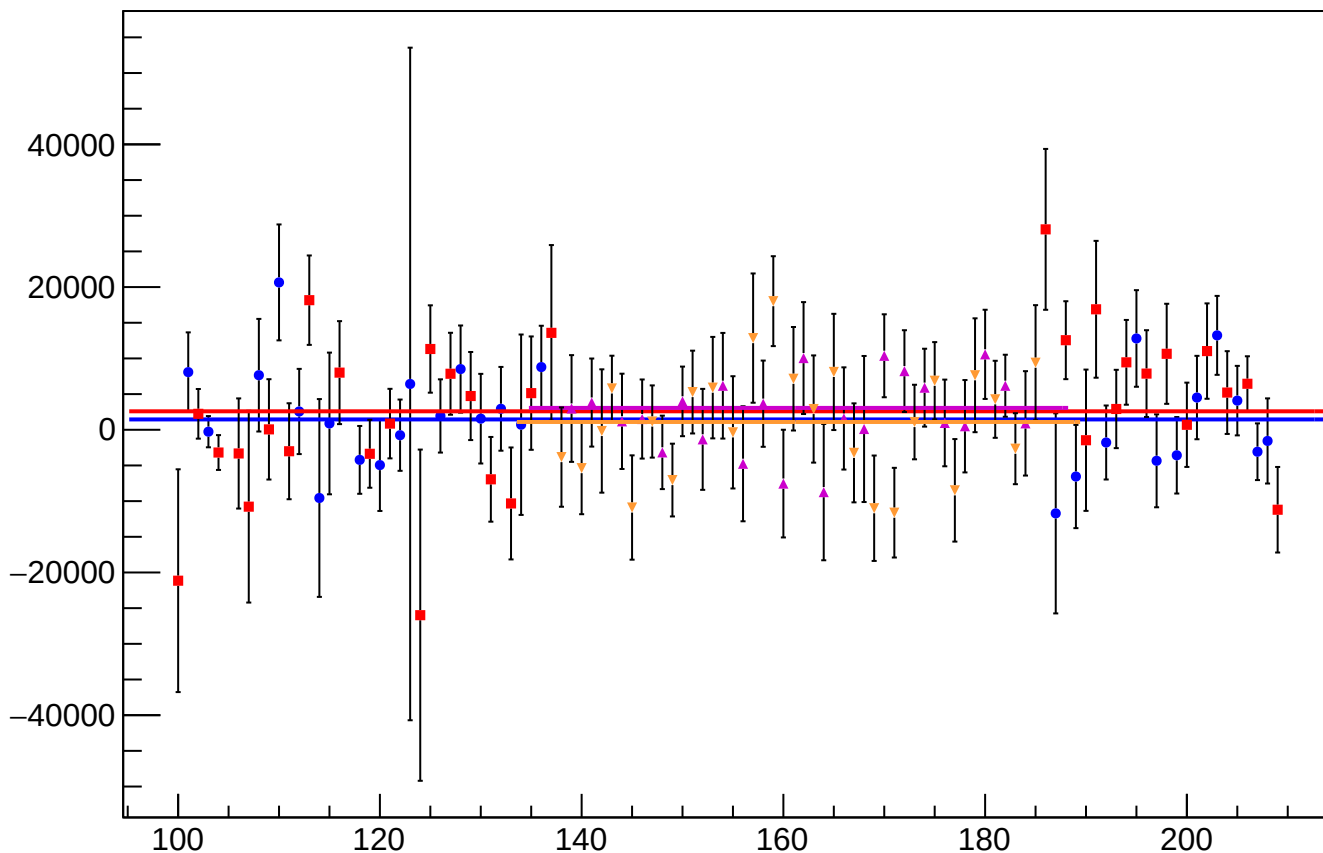
Out: 1220.756+/-0.248 χ^2/NDF : 42897194.7/56

Left In: 5019.114+/-0.871

χ^2/NDF : 1569031.9/22

All: 1418.615+/-0.199 χ^2/NDF : 79658714.4/13

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1450.768 $\pm$ 1044.318 χ^2 /NDF: 28.2/27

Left Out: 1094.317 $\pm$ 1273.113 χ^2 /NDF:32.0/24

Right Out: 2588.773 $\pm$ 1026.111 χ^2 /NDF: 51.9/31

Left In: 3064.775 $\pm$ 1318.173 χ^2 /NDF:12.6/22

Left: 2045.291 $\pm$ 915.742 χ^2 /NDF: 45.7/47

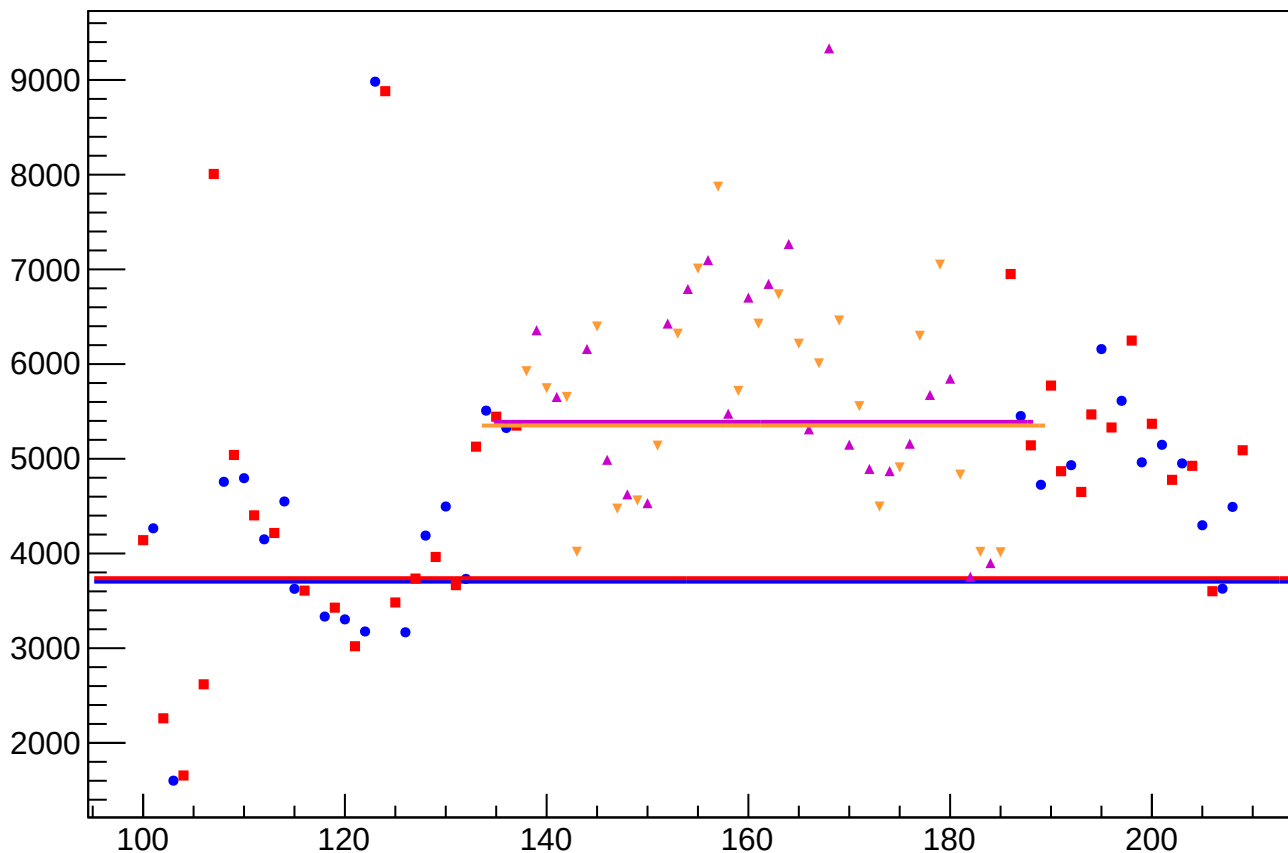
Right: 2029.777 $\pm$ 731.922 χ^2 /NDF: 80.7/59

In: 2073.160 $\pm$ 818.562 χ^2 /NDF:41.7/50

Out: 2000.259 $\pm$ 798.920 χ^2 /NDF:84.7/56

All: 2035.824 $\pm$ 571.740 χ^2 /NDF: 126.4/107

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3702.802 $\pm$ 0.738

χ^2 /NDF: 3305123.5/27

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

Right: 3721.375 $\pm$ 0.515 χ^2 /NDF: 7274254.7/59

Left Out: 5350.804 $\pm$ 0.900

χ^2 /NDF: 1241497.9/24

In: 4353.308 $\pm$ 0.579 χ^2 /NDF: 6627384.1/50

Right Out: 3738.974 $\pm$ 0.719

χ^2 /NDF: 3967899.2/31

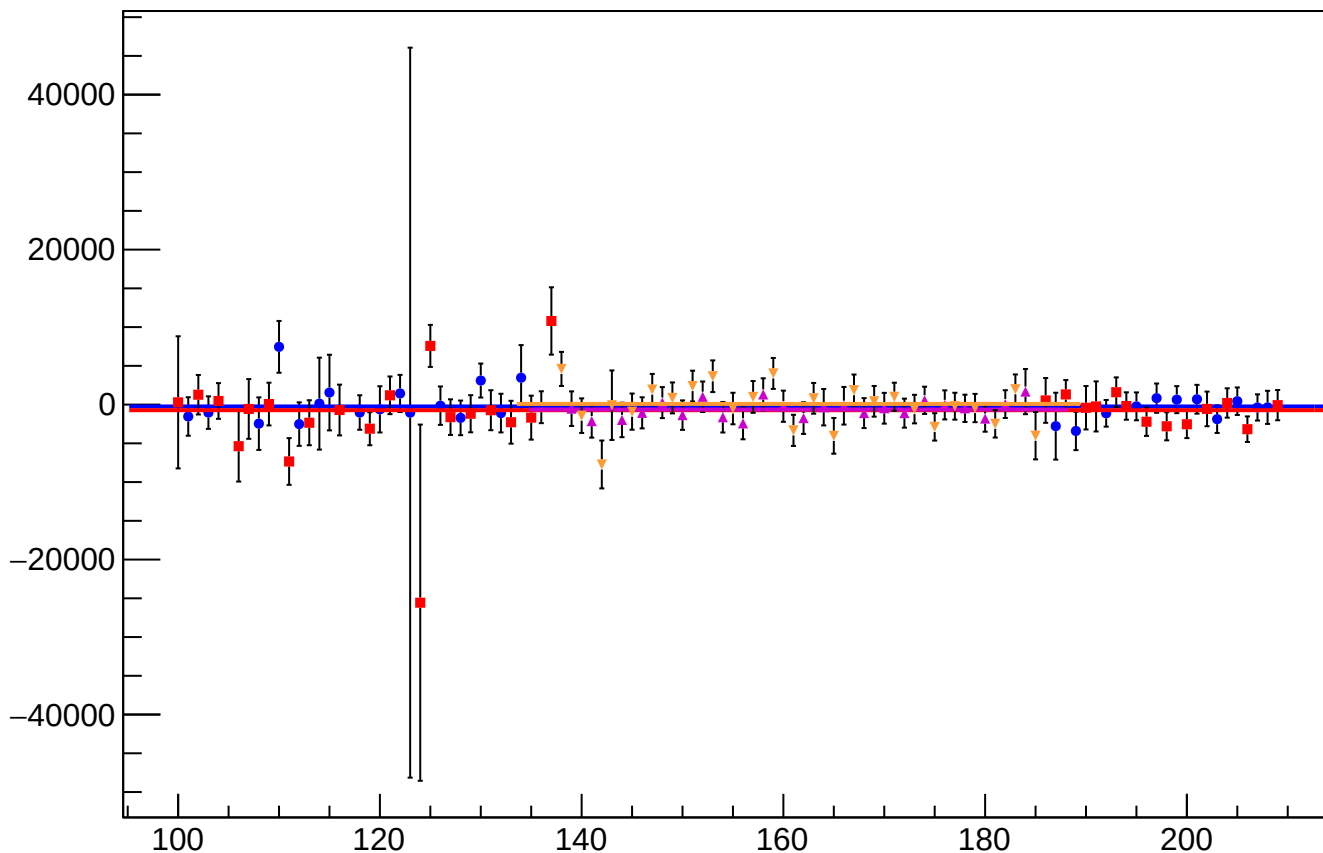
Out: 4366.540 $\pm$ 0.562 χ^2 /NDF: 7167011.1/56

Left In: 5389.724 $\pm$ 0.932

χ^2 /NDF: 1309863.0/22

All: 4360.123 $\pm$ 0.403 χ^2 /NDF: 13794664.4/131

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -240.241+/-436.937 χ^2/NDF : 15.3/27

Left Out: 86.214+/-411.530 χ^2/NDF :36.0/24

Right Out: -724.398+/-425.366 χ^2/NDF : 35.8/31

Left In: -640.235+/-417.645 χ^2/NDF :6.2/22

Left: -271.653+/-293.134 χ^2/NDF : 43.7/47

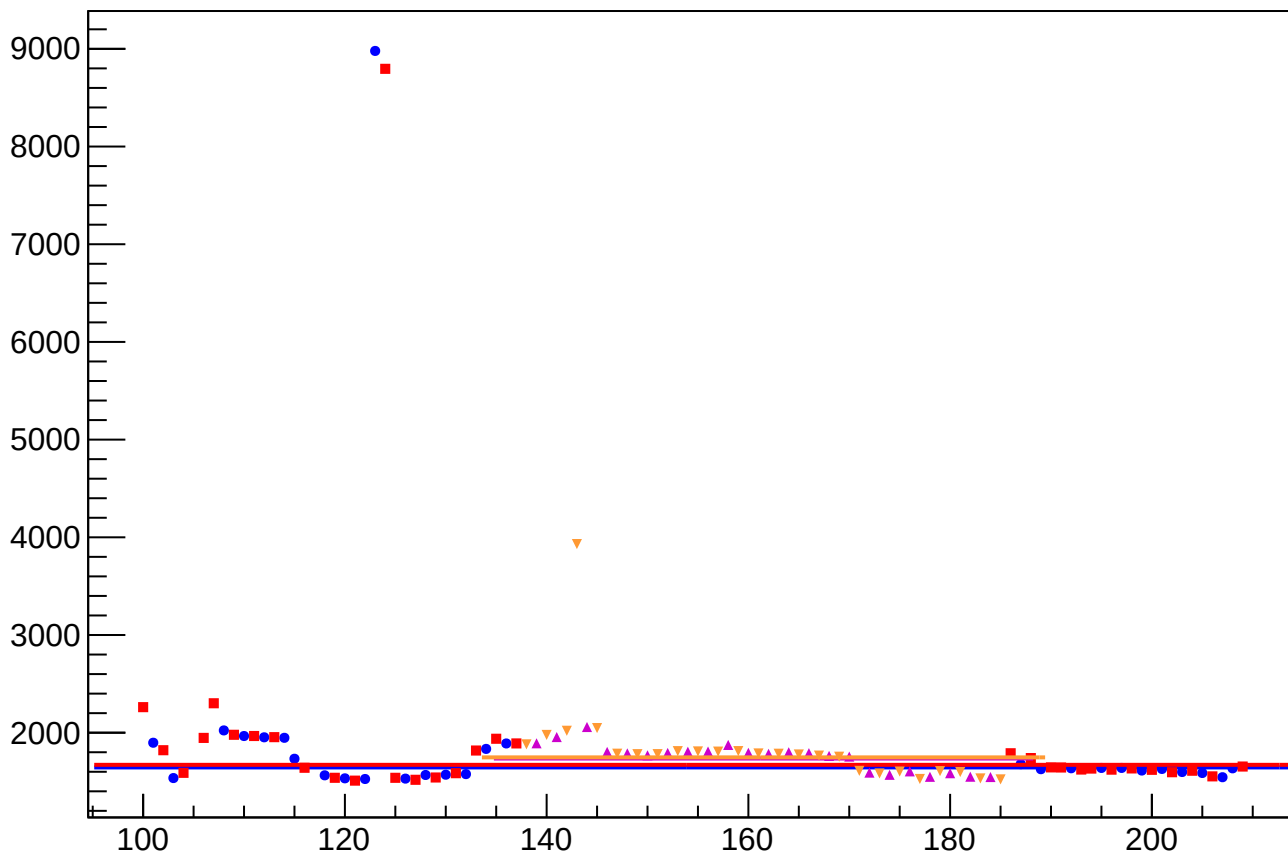
Right: -488.815+/-304.788 χ^2/NDF : 51.7/59

In: -449.263+/-301.909 χ^2/NDF :21.9/50

Out: -305.694+/-295.766 χ^2/NDF :73.7/56

All: -376.003+/-211.277 χ^2/NDF : 95.7/107

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1644.415+/-0.309 χ^2/NDF : 212968.3/27

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1671.126+/-0.300 χ^2/NDF : 432249.5/31

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

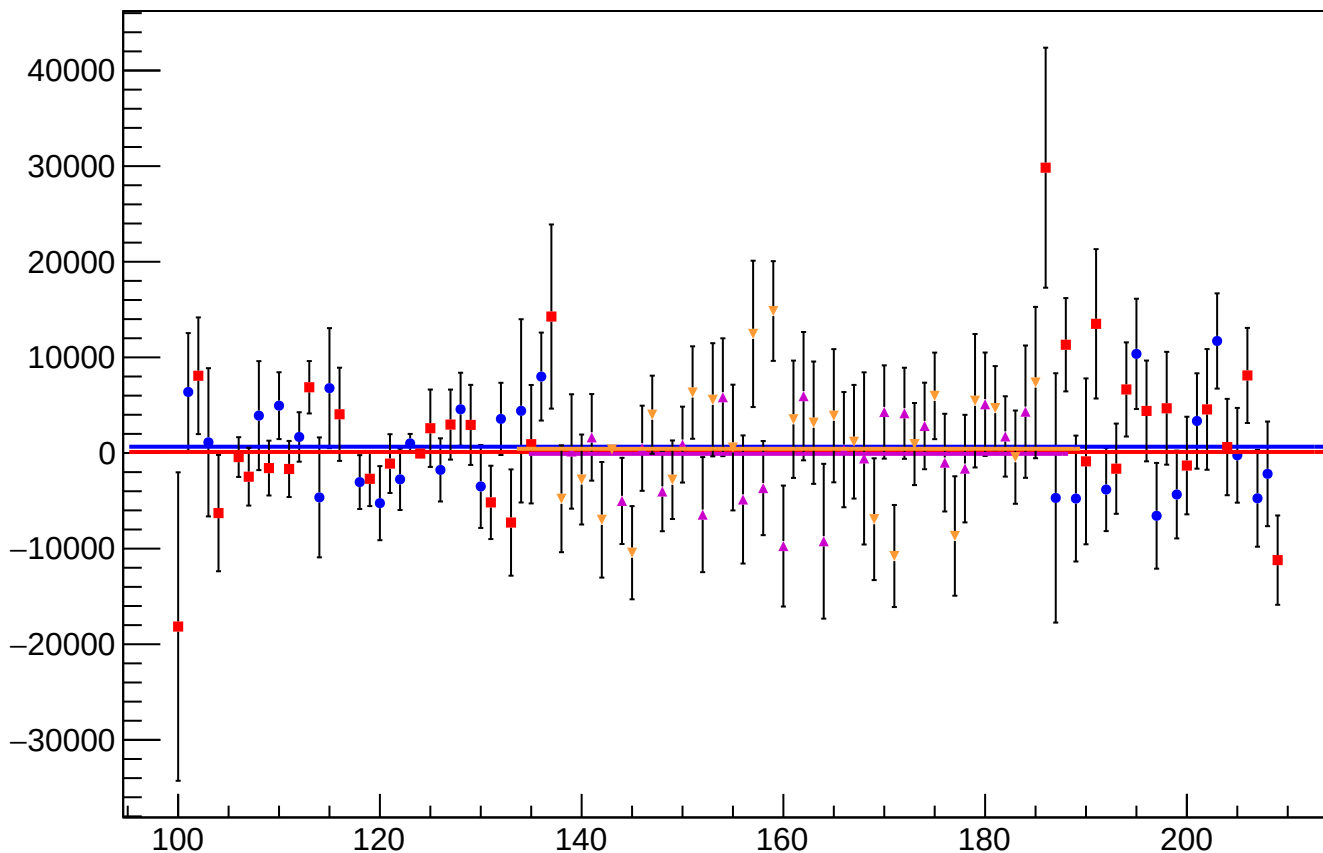
Right: 1658.153+/-0.215 χ^2/NDF : 649061.9/59

In: 1692.034+/-0.213 χ^2/NDF : 465192.9/50

Out: 1710.414+/-0.209 χ^2/NDF : 1163650.2/56

All: 1701.421+/-0.149 χ^2/NDF : 1632628.8/100

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 657.026+/-647.207 χ^2/NDF : 29.9/27

Left Out: 442.187+/-440.335 χ^2/NDF :33.9/24

Right Out: 108.990+/-348.135 χ^2/NDF : 47.0/31

Left In: -88.508+/-1094.838 χ^2/NDF :13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

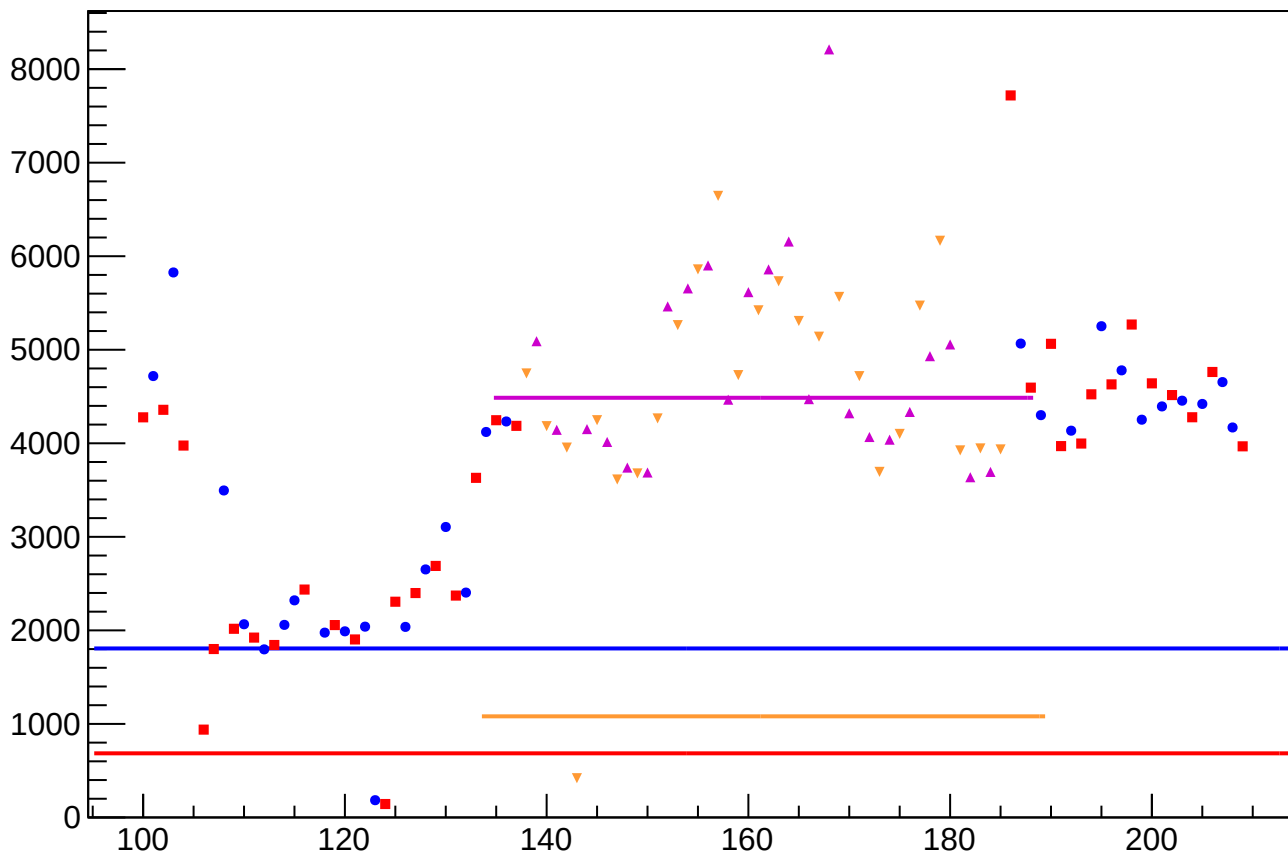
Right: 231.975+/-306.594 χ^2/NDF : 77.5/59

In: 463.964+/-557.140 χ^2/NDF :43.7/50

Out: 237.152+/-273.094 χ^2/NDF :81.3/56

All: 281.090+/-245.219 χ^2/NDF : 125.1/107

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1806.757+/-0.458

χ^2/NDF : 13069289.6/27

Left: 1555.179+/-0.289

χ^2/NDF : 42294704.7/47

Left Out: 1081.004+/-0.311

χ^2/NDF : 24456244.2/24

Right: 937.145+/-0.217

χ^2/NDF : 41092205.7/59

Right Out: 685.530+/-0.246

χ^2/NDF : 23367451.1/31

In: 2500.716+/-0.394

χ^2/NDF : 23130253.6/50

Out: 837.646+/-0.193

χ^2/NDF : 48816414.5/56

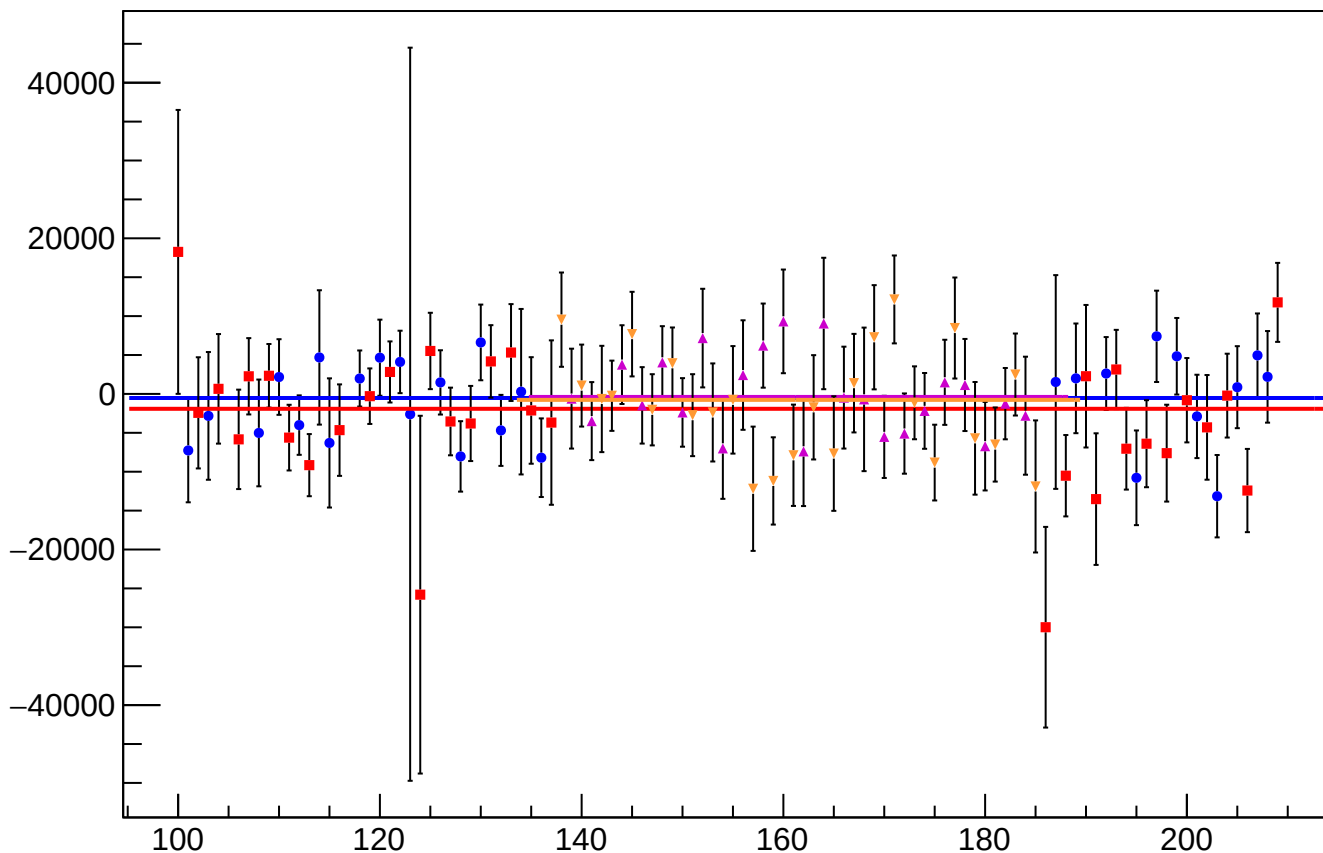
Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

All: 1159.820+/-0.173

χ^2/NDF : 86315006.2/131

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -524.564 ± 1019.308 $\chi^2/\text{NDF}: 28.4/27$

Left Out: -766.008 ± 1147.372 $\chi^2/\text{NDF}: 29.9/24$

Right Out: -1913.552 ± 968.284 $\chi^2/\text{NDF}: 40.6/31$

Left In: -388.944 ± 1186.300 $\chi^2/\text{NDF}: 14.2/22$

Left: -583.764 ± 824.733 $\chi^2/\text{NDF}: 44.2/47$

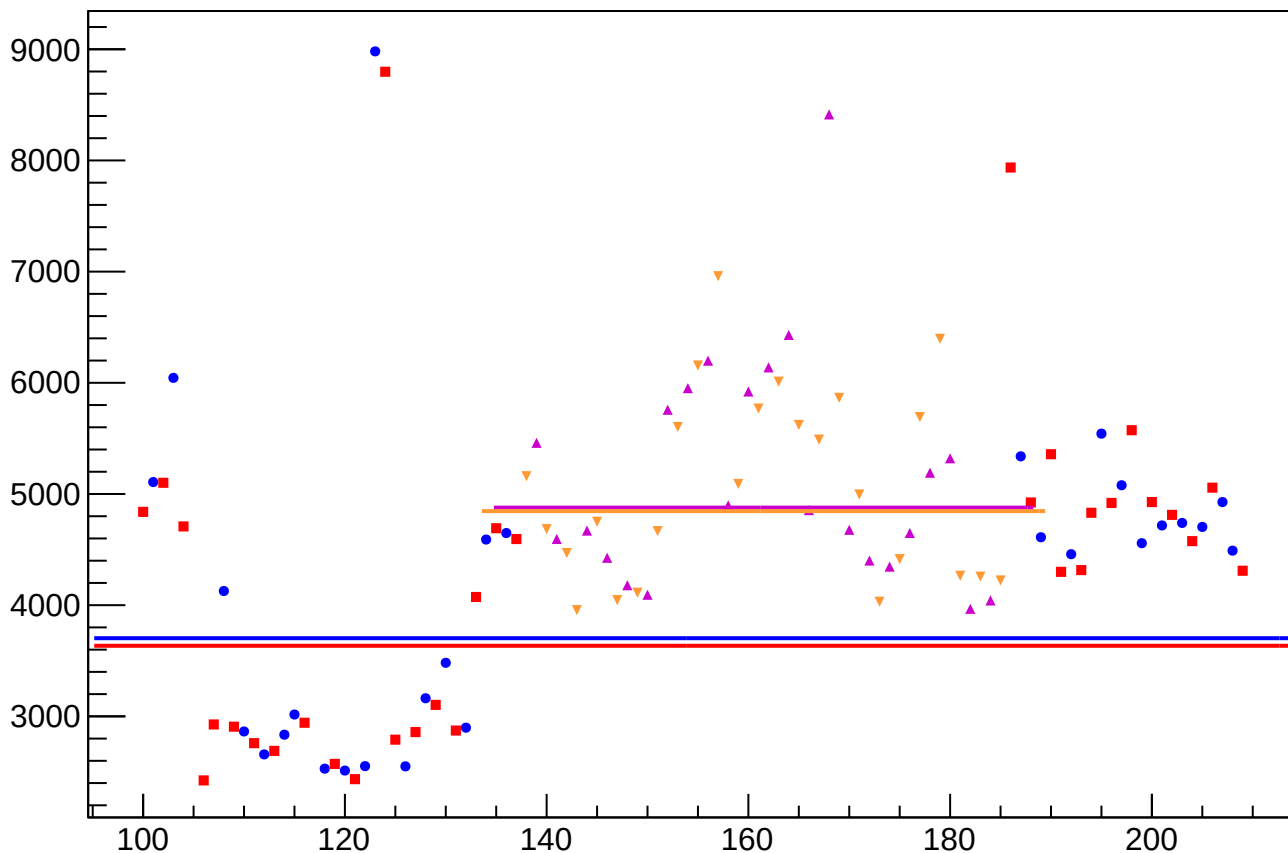
Right: -1254.692 ± 702.025 $\chi^2/\text{NDF}: 69.9/59$

In: -466.964 ± 773.117 $\chi^2/\text{NDF}: 42.6/50$

Out: -1436.227 ± 739.991 $\chi^2/\text{NDF}: 71.1/56$

All: -972.805 ± 534.580 $\chi^2/\text{NDF}: 114.5/107$

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3702.891+/-0.721 χ^2/NDF : 2182956.2/27

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3634.773+/-0.679 χ^2/NDF : 2613295.7/31

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

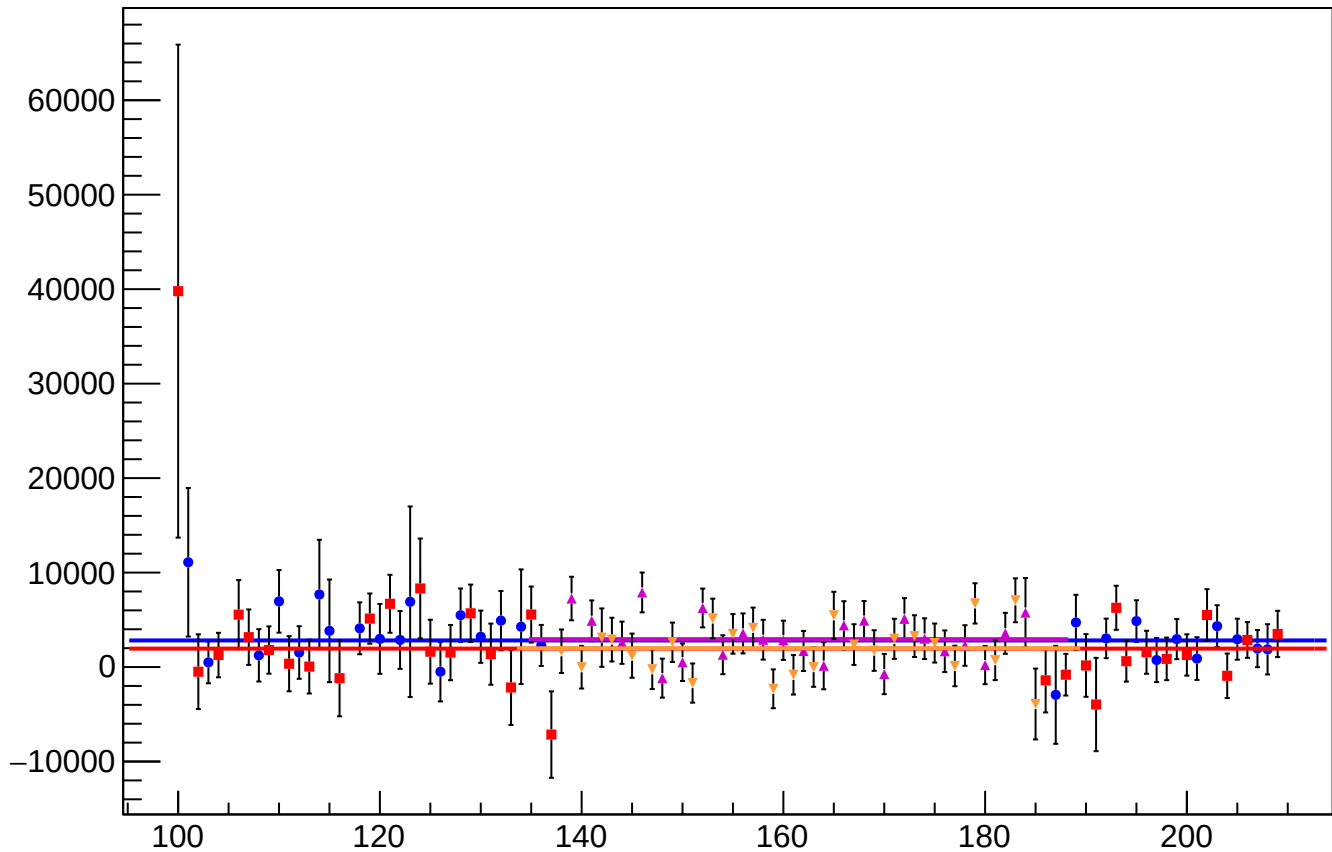
Right: 3666.802+/-0.494 χ^2/NDF : 4800984.1/59

In: 4201.749+/-0.547 χ^2/NDF : 4269494.3/50

Out: 4133.606+/-0.521 χ^2/NDF : 4832716.7/56

All: 4166.021+/-0.377 χ^2/NDF : 9110357.5/10

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2817.947+/-522.818 χ^2/NDF : 12.9/27

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1952.129+/-500.250 χ^2/NDF : 30.7/31

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

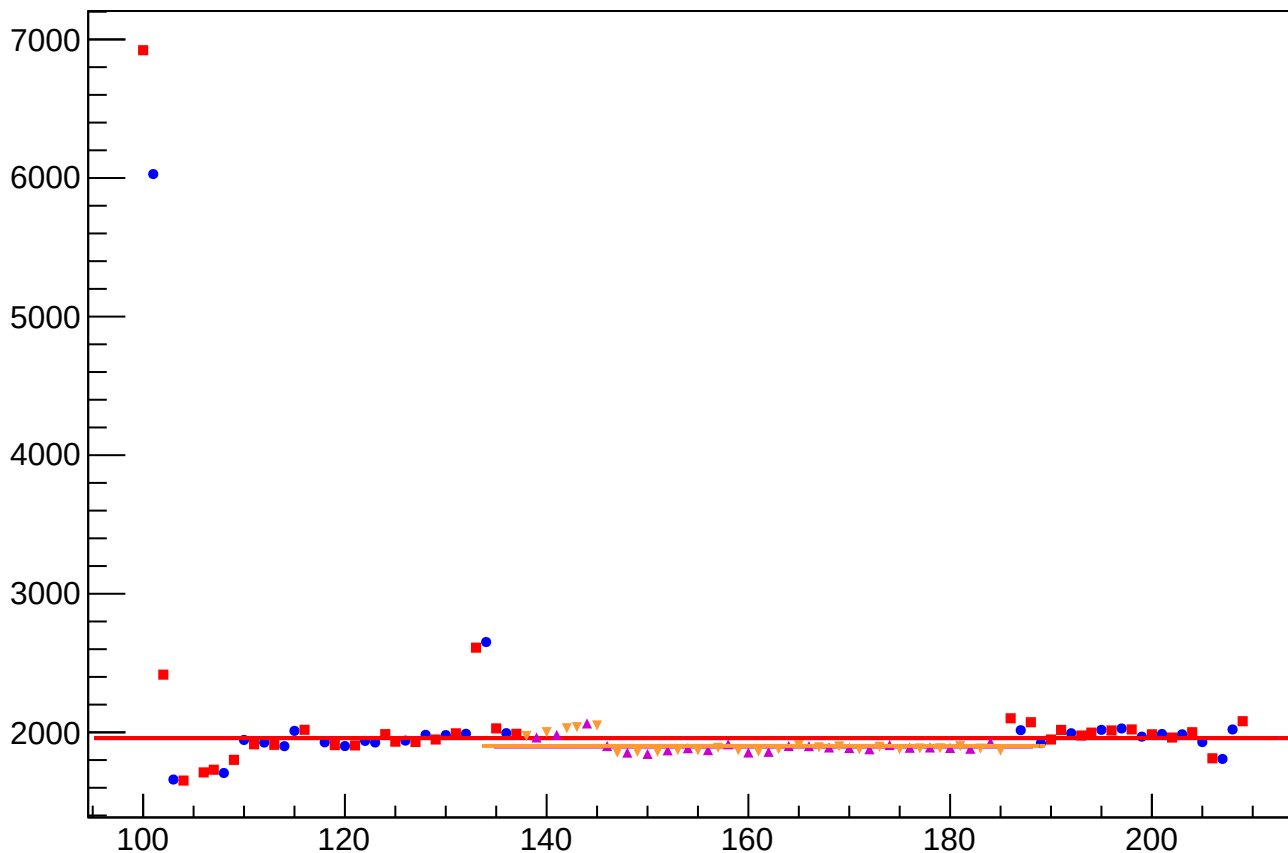
Right: 2365.948+/-361.445 χ^2/NDF : 45.0/59

In: 2896.513+/-343.030 χ^2/NDF : 41.3/50

Out: 1970.808+/-331.730 χ^2/NDF : 63.1/56

All: 2418.162+/-238.463 χ^2/NDF : 108.2/107

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1957.906 $\pm$ 0.370 χ^2 /NDF: 635679.9/27

Left Out: 1901.884 $\pm$ 0.313 χ^2 /NDF: 30446.9/24

Right Out: 1959.210 $\pm$ 0.353 χ^2 /NDF: 252354.4/31

Left In: 1897.456 $\pm$ 0.321 χ^2 /NDF: 21180.1/22

Left: 1899.726 $\pm$ 0.224 χ^2 /NDF: 51724.3/47

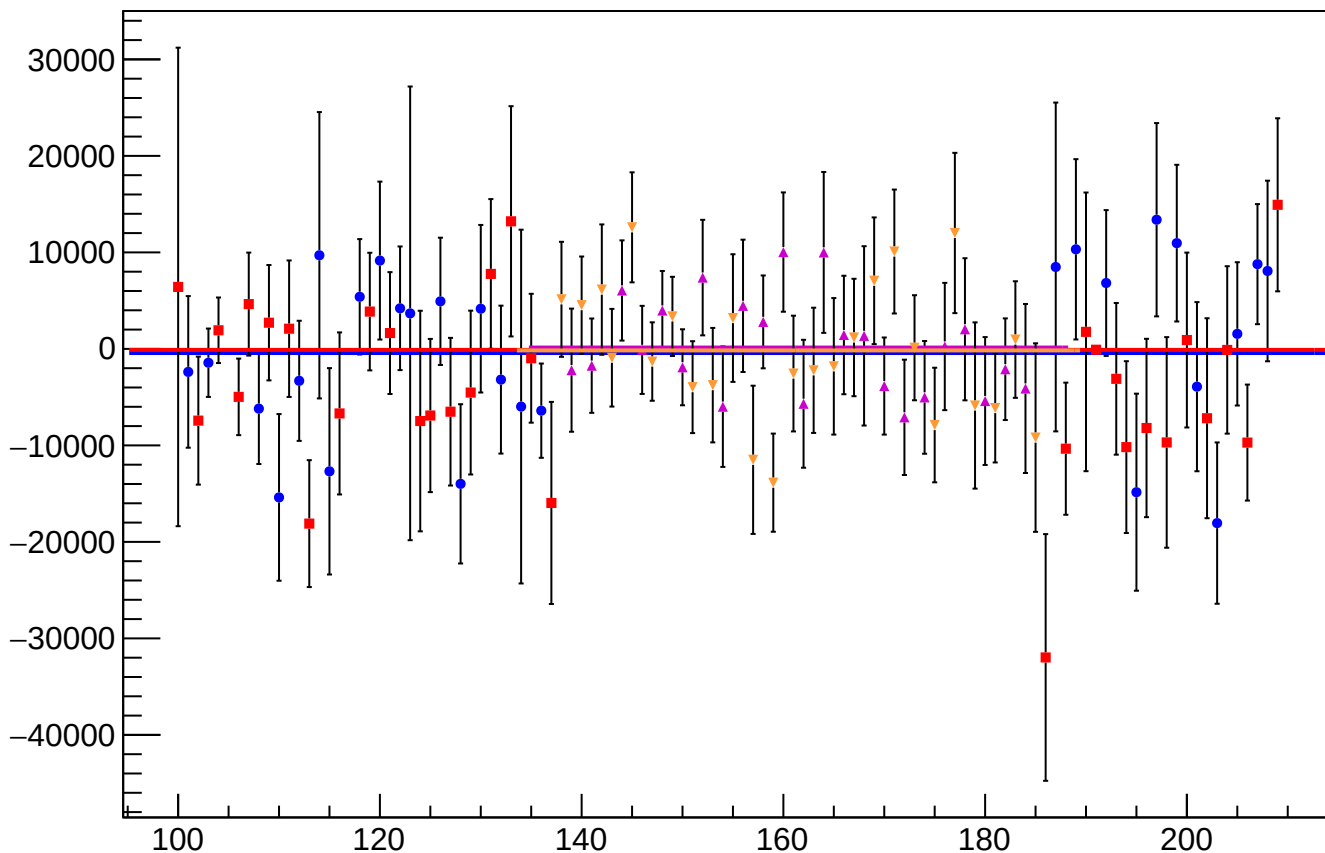
Right: 1958.587 $\pm$ 0.255 χ^2 /NDF: 888040.8/59

In: 1923.479 $\pm$ 0.243 χ^2 /NDF: 672087.1/50

Out: 1927.123 $\pm$ 0.234 χ^2 /NDF: 297533.6/56

All: 1925.363 $\pm$ 0.169 χ^2 /NDF: 969737.4/107

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -426.760 ± 1399.462 $\chi^2/\text{NDF}: 30.5/27$

Left Out: -157.539 ± 1165.844 $\chi^2/\text{NDF}: 29.5/24$

Right Out: -103.831 ± 109.543 $\chi^2/\text{NDF}: 36.9/31$

Left In: 139.000 ± 1190.889 $\chi^2/\text{NDF}: 14.7/22$

Left: -12.420 ± 833.090 $\chi^2/\text{NDF}: 44.2/47$

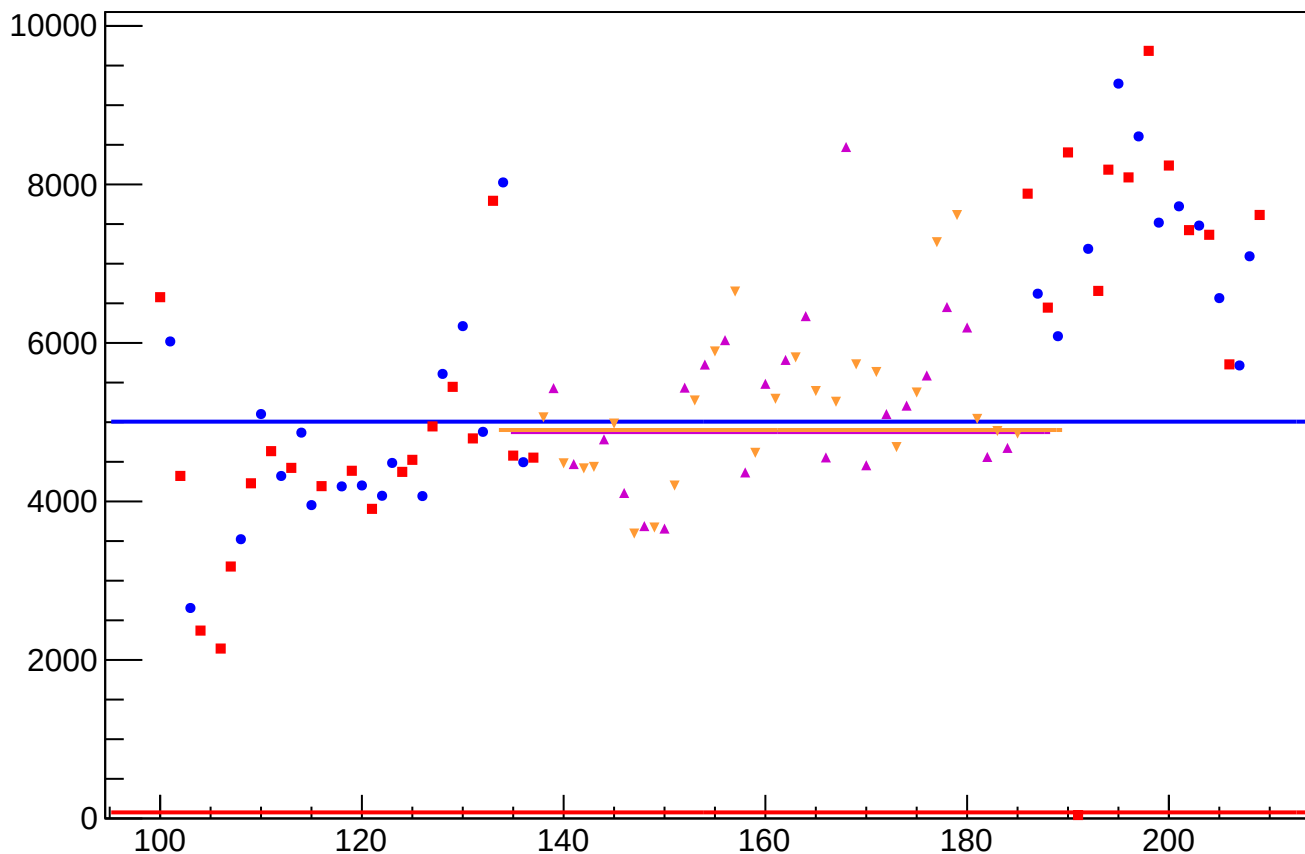
Right: -105.798 ± 109.209 $\chi^2/\text{NDF}: 67.4/59$

In: -98.619 ± 906.955 $\chi^2/\text{NDF}: 45.3/50$

Out: -104.301 ± 109.063 $\chi^2/\text{NDF}: 66.4/56$

All: -104.220 ± 108.283 $\chi^2/\text{NDF}: 111.7/107$

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 5006.838 $\pm$ 0.990 χ^2 /NDF: 2949558.7/27

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF: 1136916.0/24

Right Out: 76.499 $\pm$ 0.077 χ^2 /NDF: 30018802.9/31

Left In: 4875.112 $\pm$ 0.842 χ^2 /NDF: 1229198.0/22

Left: 4888.513 $\pm$ 0.589 χ^2 /NDF: 2366610.1/47

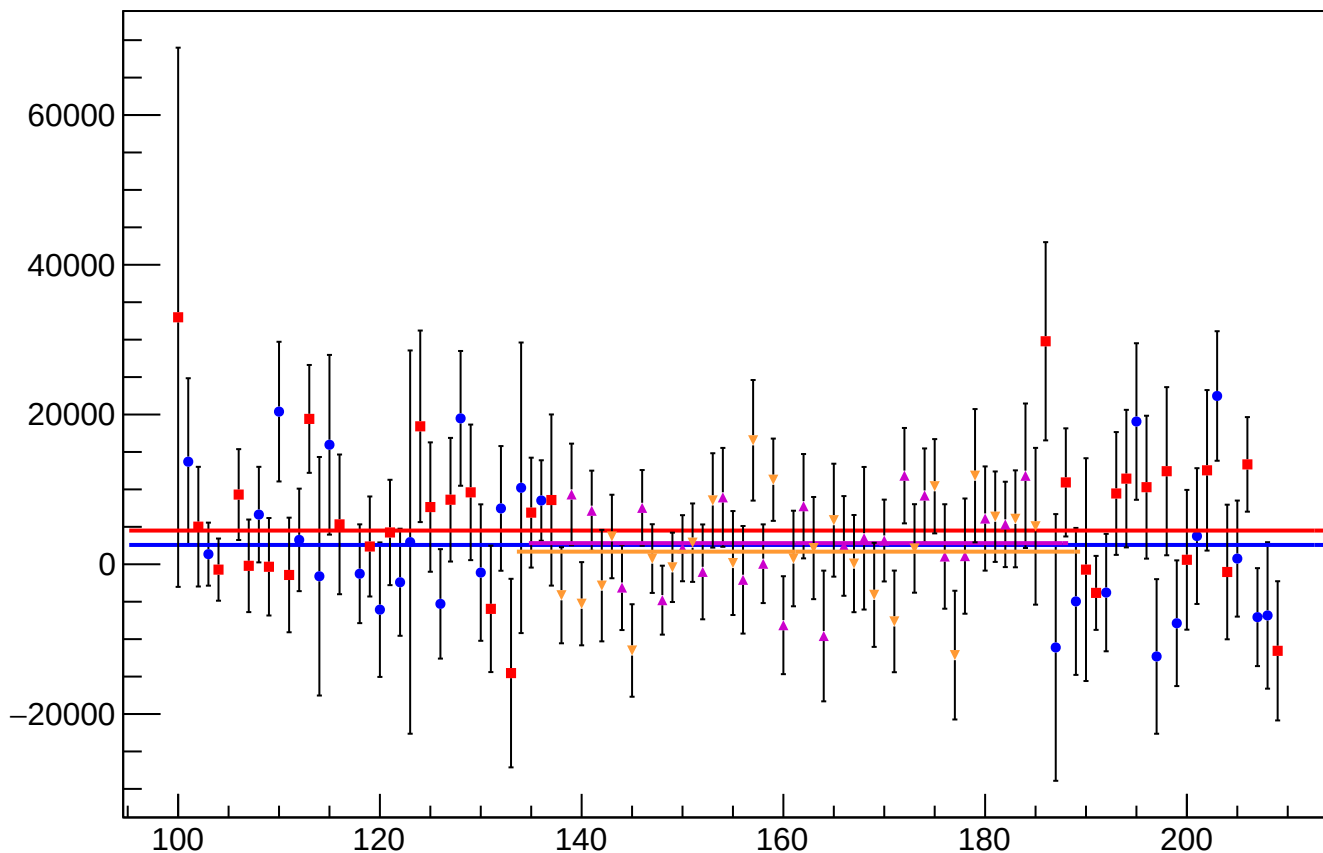
Right: 106.523 $\pm$ 0.077 χ^2 /NDF: 57640614.3/59

In: 4930.437 $\pm$ 0.641 χ^2 /NDF: 4189034.0/50

Out: 118.723 $\pm$ 0.077 χ^2 /NDF: 65110468.0/56

All: 187.310 $\pm$ 0.077 χ^2 /NDF: 124790627.1/13

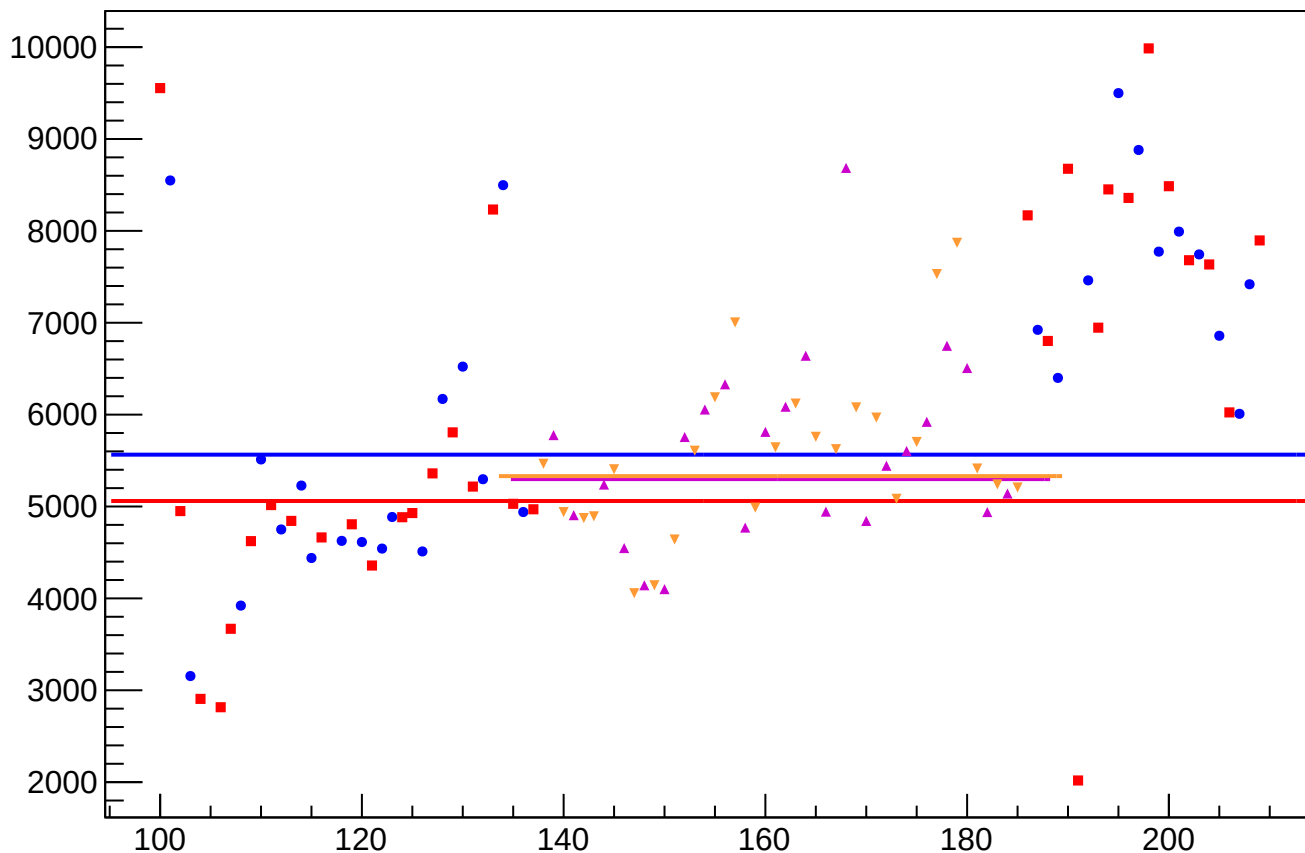
asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2581.752+/-1538.322 χ^2/NDF : 31.2/27
 Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24
 Right Out: 4502.445+/-1386.839 χ^2/NDF : 30.2/31
 Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47
 Right: 3641.297+/-1030.047 χ^2/NDF : 62.2/59
 In: 2724.173+/-987.738 χ^2/NDF : 49.2/50
 Out: 2961.682+/-933.248 χ^2/NDF : 57.8/56
 All: 2849.659+/-678.352 χ^2/NDF : 107.1/107

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5564.362 $\pm$ 1.088

χ^2/NDF : 2409603.5/27

Left: 5314.867 $\pm$ 0.637

χ^2/NDF : 1824728.8/47

Left Out: 5330.725 $\pm$ 0.892

χ^2/NDF : 868061.7/24

Right: 5285.198 $\pm$ 0.727

χ^2/NDF : 6585719.4/59

Right Out: 5060.002 $\pm$ 0.977

χ^2/NDF : 4057119.3/31

In: 5408.008 $\pm$ 0.698

χ^2/NDF : 3400779.3/50

Out: 5207.628 $\pm$ 0.659

χ^2/NDF : 4967052.8/56

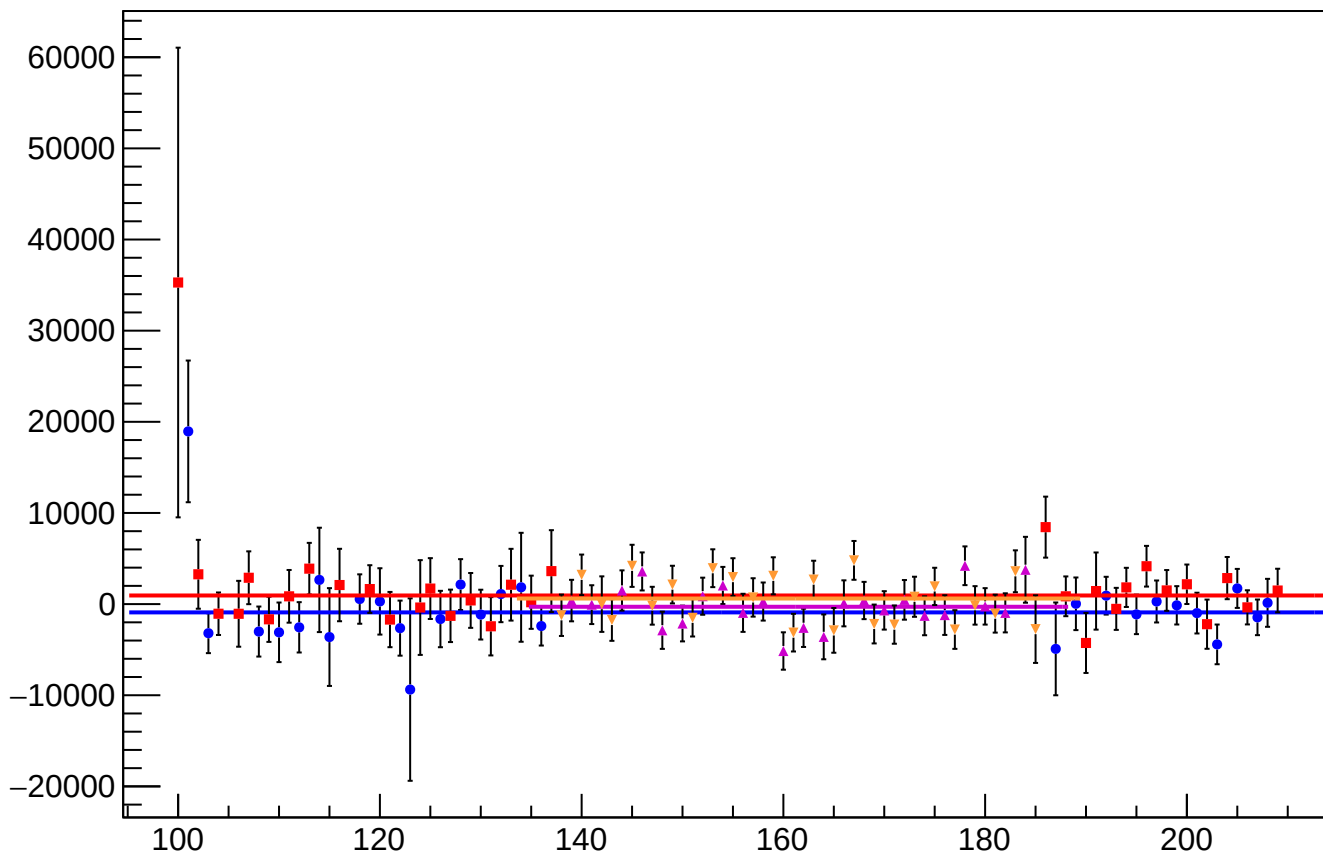
Left In: 5298.329 $\pm$ 0.911

χ^2/NDF : 956021.6/22

All: 5301.969 $\pm$ 0.479

χ^2/NDF : 8411390.1/10

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -910.310+/-516.253 χ^2/NDF : 19.7/27

Left Out: 612.314+/-438.264 χ^2/NDF : 32.7/24

Right Out: 945.405+/-493.031 χ^2/NDF : 22.3/31

Left In: -293.009+/-449.575 χ^2/NDF : 23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

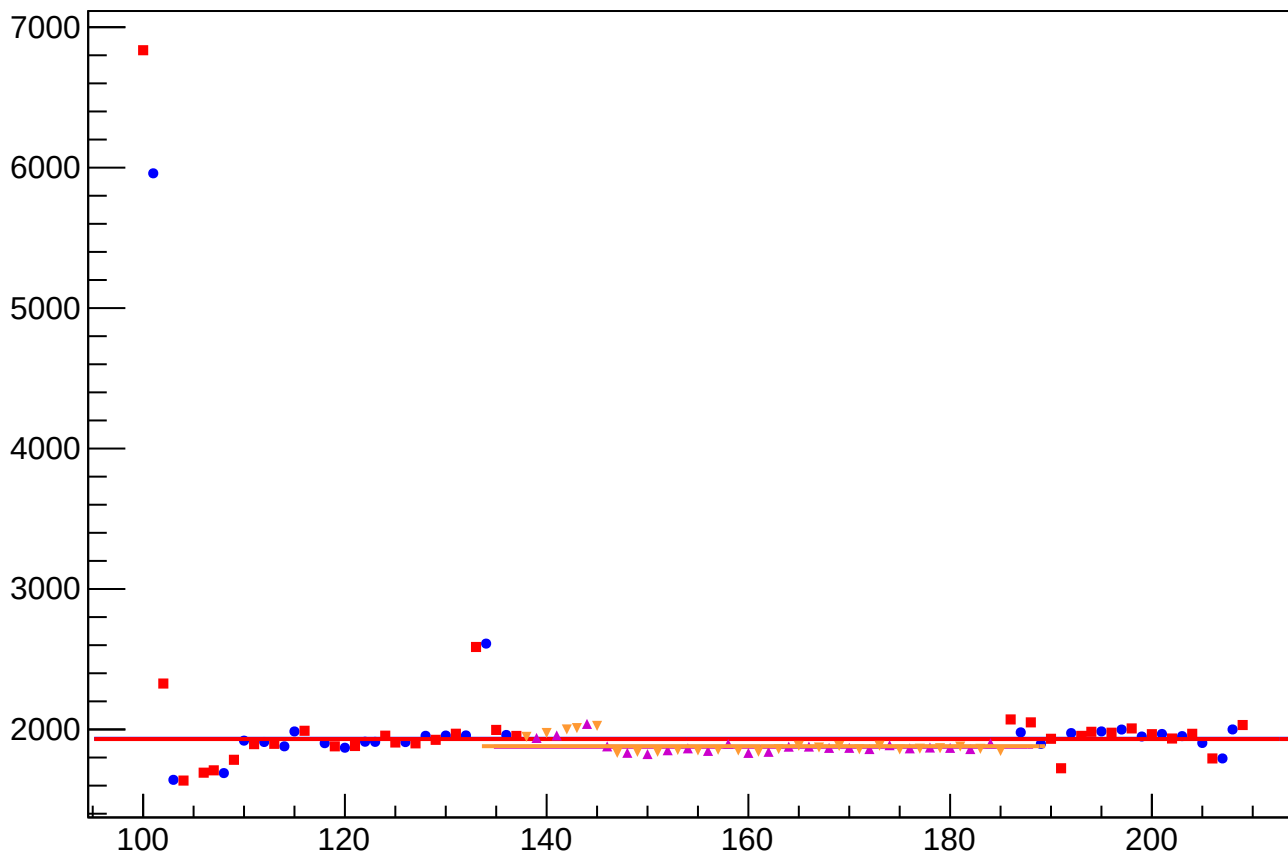
Right: 60.221+/-356.553 χ^2/NDF : 48.8/59

In: -559.245+/-339.037 χ^2/NDF : 44.2/50

Out: 759.339+/-327.558 χ^2/NDF : 55.2/56

All: 122.747+/-235.572 χ^2/NDF : 107.2/107

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1933.475+/-0.365 χ^2/NDF : 632761.8/27

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1931.532+/-0.348 χ^2/NDF : 248774.8/31

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

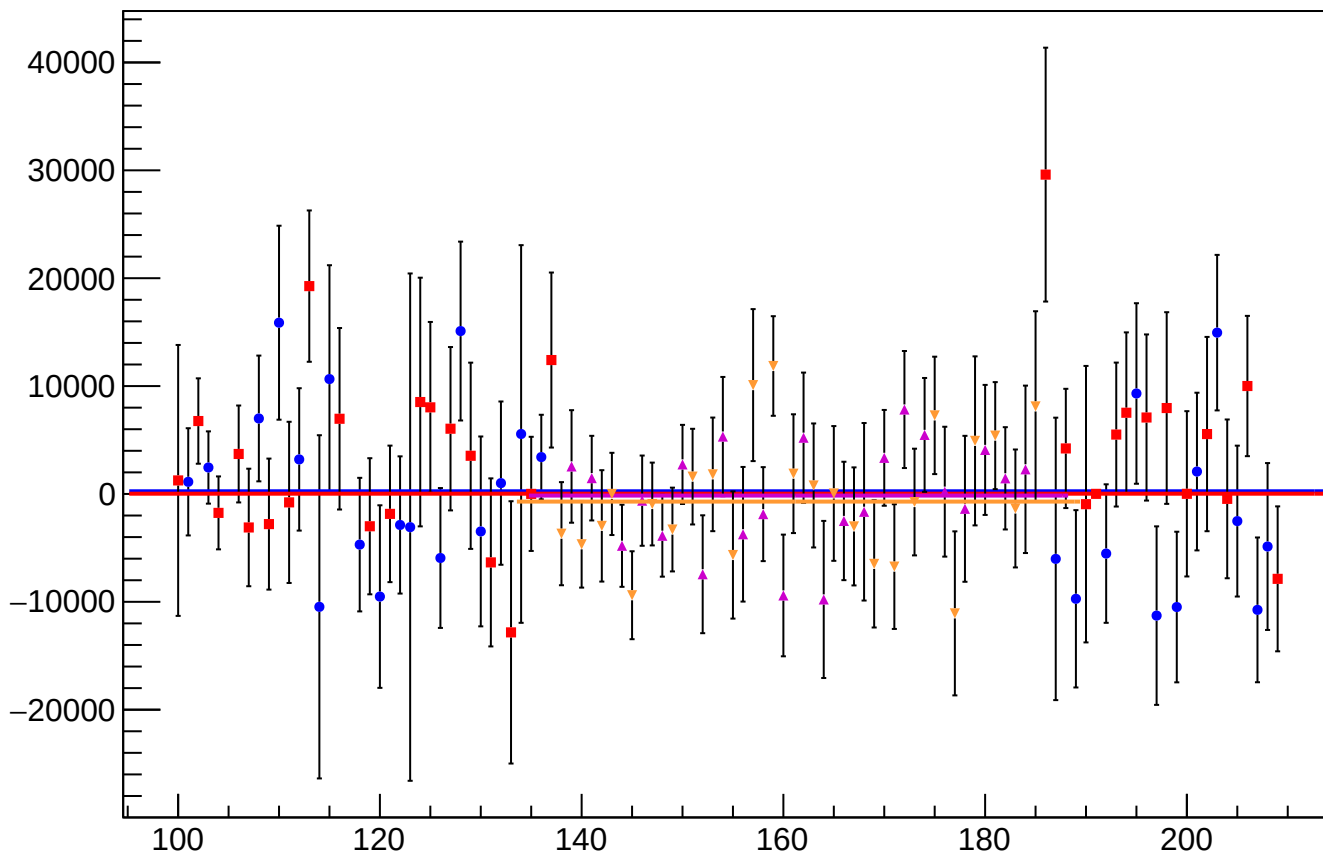
Right: 1932.458+/-0.252 χ^2/NDF : 881551.4/59

In: 1901.178+/-0.240 χ^2/NDF : 667025.6/50

Out: 1903.223+/-0.232 χ^2/NDF : 289269.1/56

All: 1902.236+/-0.167 χ^2/NDF : 956332.3/107

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 247.523+/-1288.240 χ^2/NDF : 29.2/27

Left Out: -707.785+/-1017.719 χ^2/NDF : 27.1/24

Right Out: 23.286+/-85.789 χ^2/NDF : 33.8/31

Left In: -150.495+/-1053.655 χ^2/NDF : 16.9/22

Left: -438.806+/-732.011 χ^2/NDF : 44.2/47

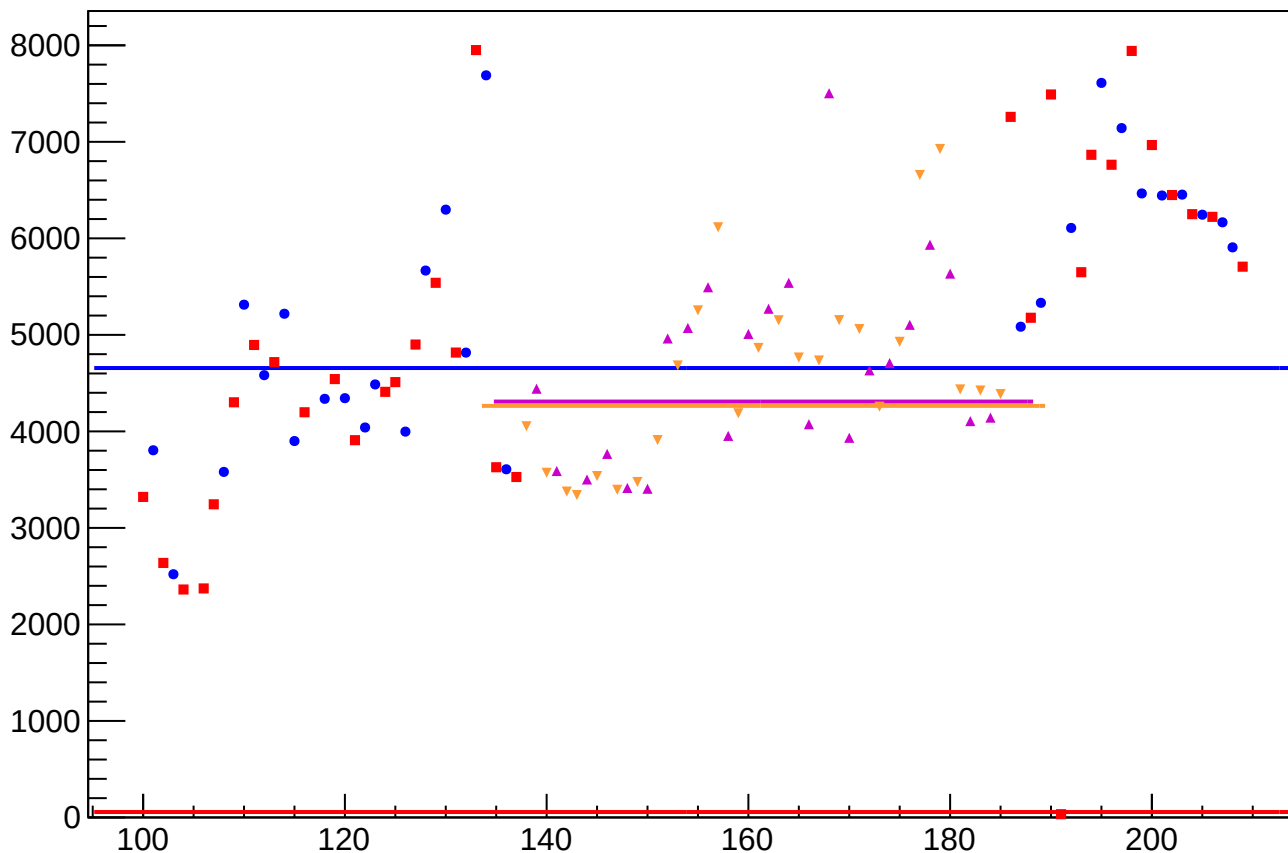
Right: 24.276+/-85.600 χ^2/NDF : 63.1/59

In: 9.041+/-815.596 χ^2/NDF : 46.2/50

Out: 18.128+/-85.486 χ^2/NDF : 61.4/56

All: 18.029+/-85.021 χ^2/NDF : 107.6/107

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4656.432 $\pm$ 0.911 χ^2 /NDF: 2497550.6/27

Left Out: 4264.433 $\pm$ 0.720 χ^2 /NDF: 1354900.8/24

Right Out: 56.326 $\pm$ 0.061 χ^2 /NDF: 30191450.5/31

Left In: 4309.034 $\pm$ 0.745 χ^2 /NDF: 1305133.3/22

Left: 4285.960 $\pm$ 0.518 χ^2 /NDF: 2661888.1/47

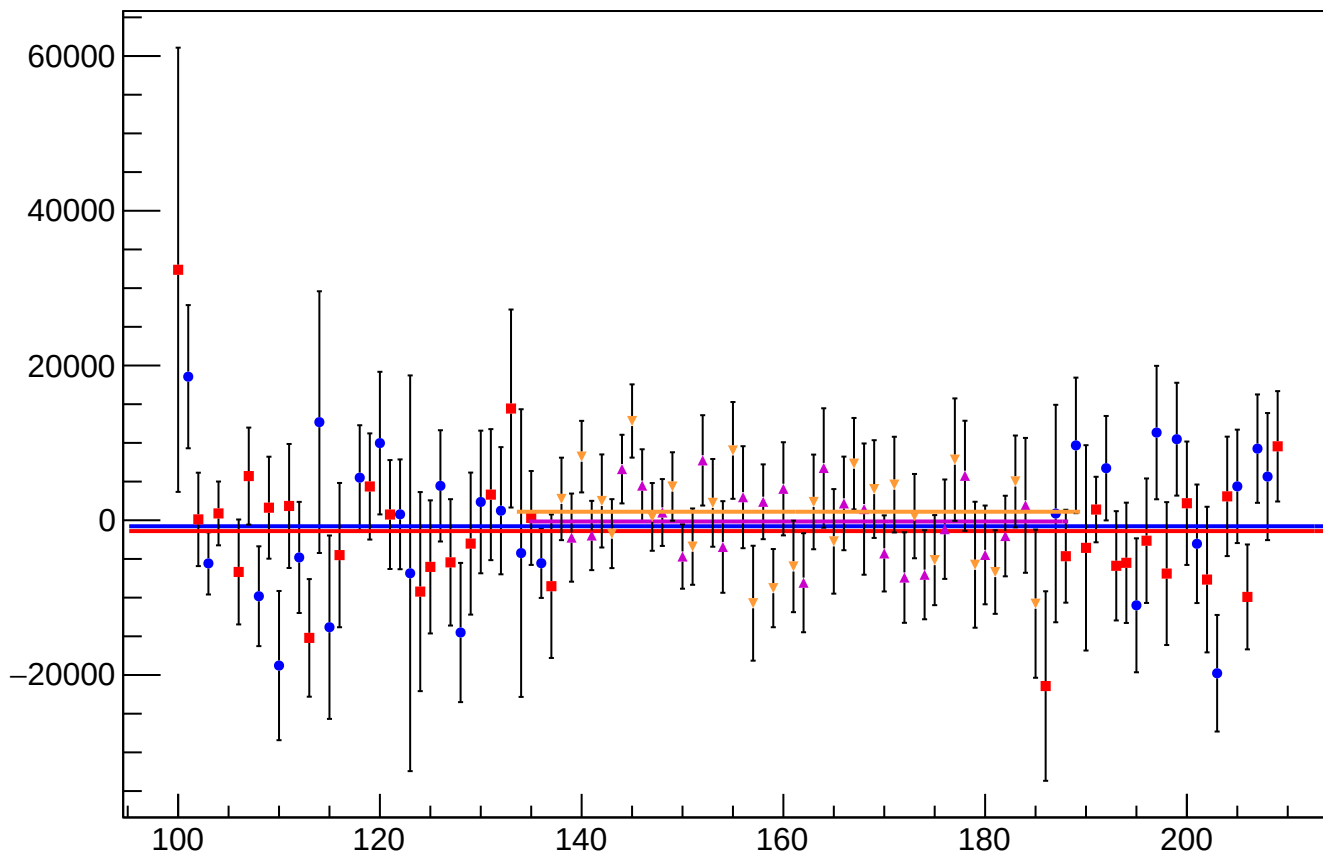
Right: 76.637 $\pm$ 0.061 χ^2 /NDF: 58078262.0/59

In: 4448.280 $\pm$ 0.577 χ^2 /NDF: 3889829.5/50

Out: 86.017 $\pm$ 0.060 χ^2 /NDF: 65498922.7/56

All: 133.421 $\pm$ 0.060 χ^2 /NDF: 125981218.8/117

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -776.517 ± 1446.048 $\chi^2/\text{NDF}: 37.9/27$

Left Out: 1102.204 ± 1126.663 $\chi^2/\text{NDF}: 28.6/24$

Right Out: -1400.419 ± 1297.846 $\chi^2/\text{NDF}: 21.1/31$

Left In: -158.683 ± 1161.507 $\chi^2/\text{NDF}: 15.5/22$

Left: 490.957 ± 808.709 $\chi^2/\text{NDF}: 44.7/47$

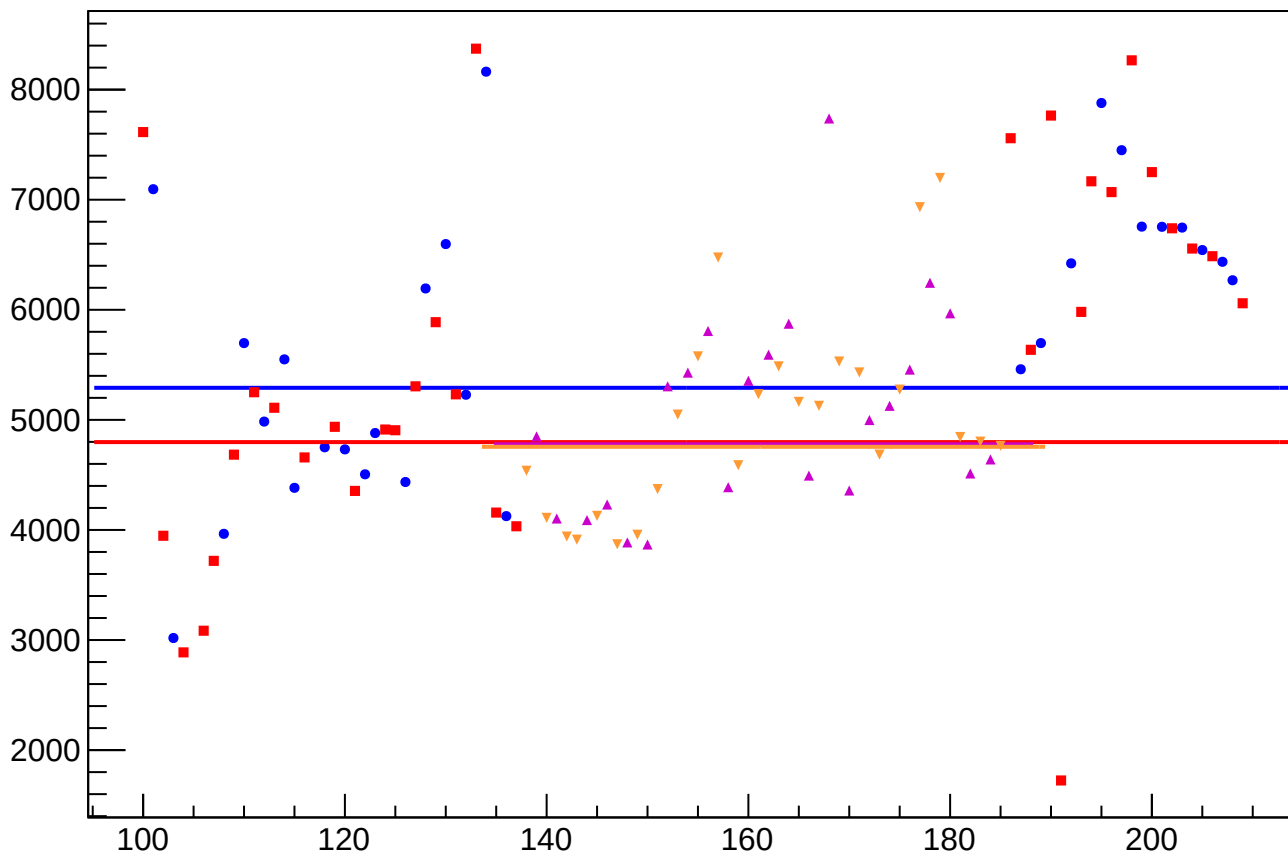
Right: -1122.068 ± 965.875 $\chi^2/\text{NDF}: 59.1/59$

In: -400.974 ± 905.557 $\chi^2/\text{NDF}: 53.6/50$

Out: 26.714 ± 850.802 $\chi^2/\text{NDF}: 51.8/56$

All: -173.810 ± 620.062 $\chi^2/\text{NDF}: 105.5/107$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5291.355+/-1.023 χ^2/NDF : 1868752.9/27

Left Out: 4755.383+/-0.797 χ^2/NDF : 953328.0/24

Right Out: 4798.101+/-0.915 χ^2/NDF : 3494567.1/31

Left In: 4777.831+/-0.821 χ^2/NDF : 950291.2/22

Left: 4766.265+/-0.572 χ^2/NDF : 1904004.1/47

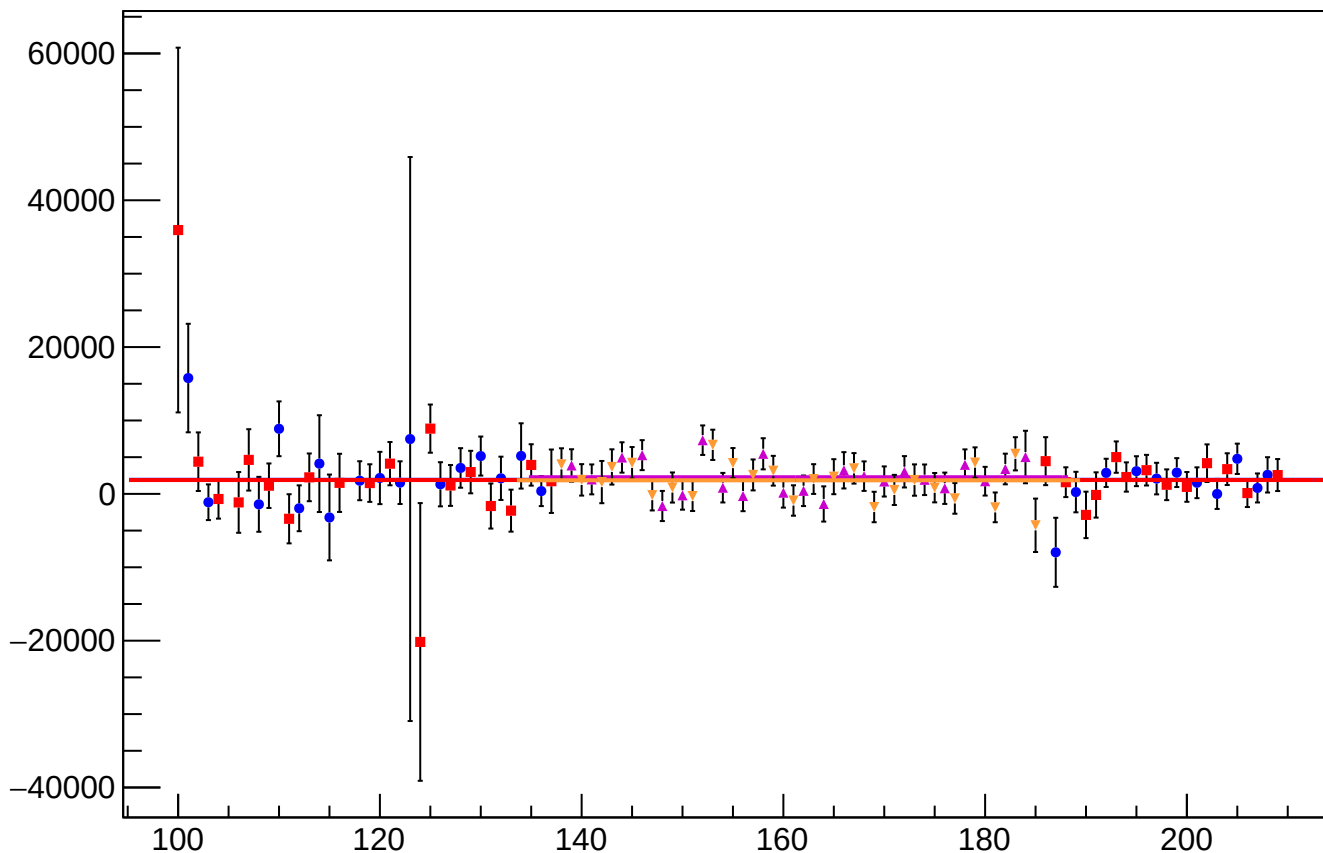
Right: 5017.363+/-0.682 χ^2/NDF : 5492582.8/59

In: 4979.216+/-0.640 χ^2/NDF : 2972355.6/50

Out: 4773.810+/-0.601 χ^2/NDF : 4449135.3/56

All: 4869.971+/-0.438 χ^2/NDF : 7476219.5/10

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1919.220+/-505.641 χ^2/NDF : 23.7/27

Left Out: 1856.570+/-430.977 χ^2/NDF :30.0/24

Right Out: 1883.639+/-484.477 χ^2/NDF : 25.9/31

Left In: 2268.464+/-441.710 χ^2/NDF :26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

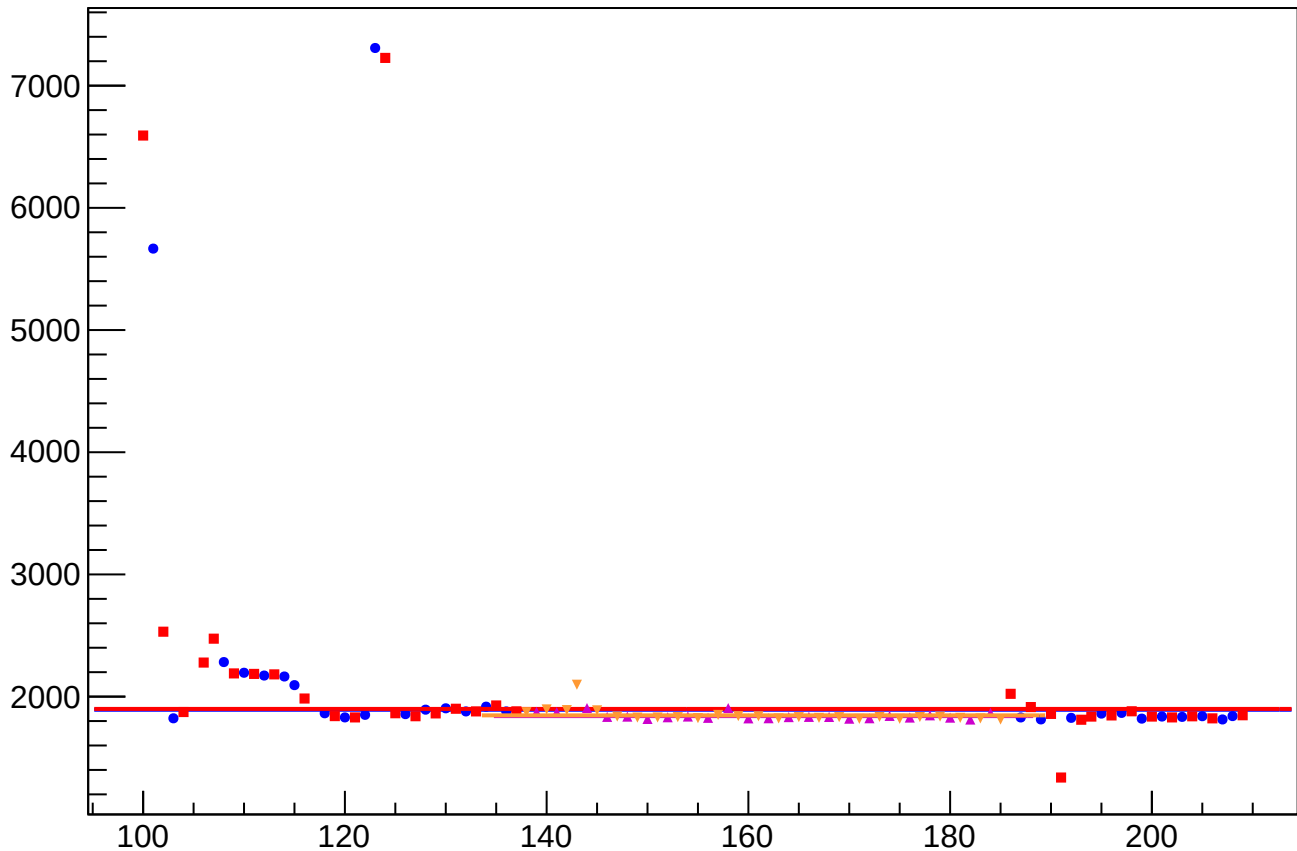
Right: 1900.669+/-349.820 χ^2/NDF : 49.6/59

In: 2117.304+/-332.657 χ^2/NDF :50.8/50

Out: 1868.528+/-322.007 χ^2/NDF :55.9/56

All: 1988.870+/-231.367 χ^2/NDF : 107.0/107

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1892.576 $\pm$ 0.358 χ^2 /NDF: 637670.0/27

Left Out: 1846.602 $\pm$ 0.305 χ^2 /NDF: 27302.8/24

Right Out: 1899.349 $\pm$ 0.343 χ^2 /NDF: 473916.5/31

Left In: 1840.541 $\pm$ 0.312 χ^2 /NDF: 6740.2/22

Left: 1843.646 $\pm$ 0.218 χ^2 /NDF: 34235.8/47

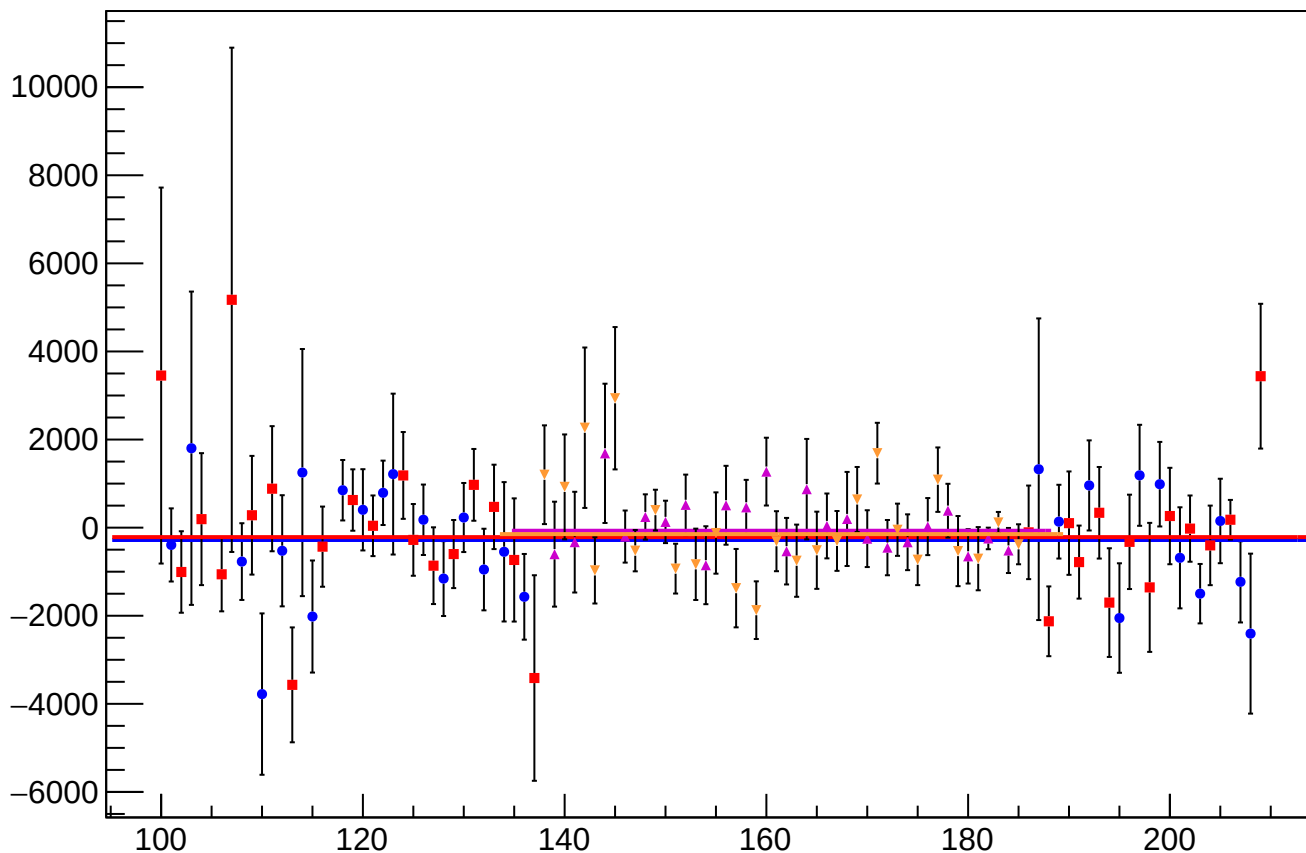
Right: 1896.107 $\pm$ 0.247 χ^2 /NDF: 1111773.6/59

In: 1863.063 $\pm$ 0.235 χ^2 /NDF: 656422.9/50

Out: 1869.903 $\pm$ 0.228 χ^2 /NDF: 514453.4/56

All: 1866.594 $\pm$ 0.164 χ^2 /NDF: 1171312.9/10

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -280.124 ± 190.094 χ^2/NDF : 30.1/27

Left Out: -146.999 ± 121.984 χ^2/NDF : 37.7/24

Right Out: -215.158 ± 167.465 χ^2/NDF : 34.7/31

Left In: -70.340 ± 126.373 χ^2/NDF : 12.3/22

Left: -110.024 ± 87.766 χ^2/NDF : 50.1/47

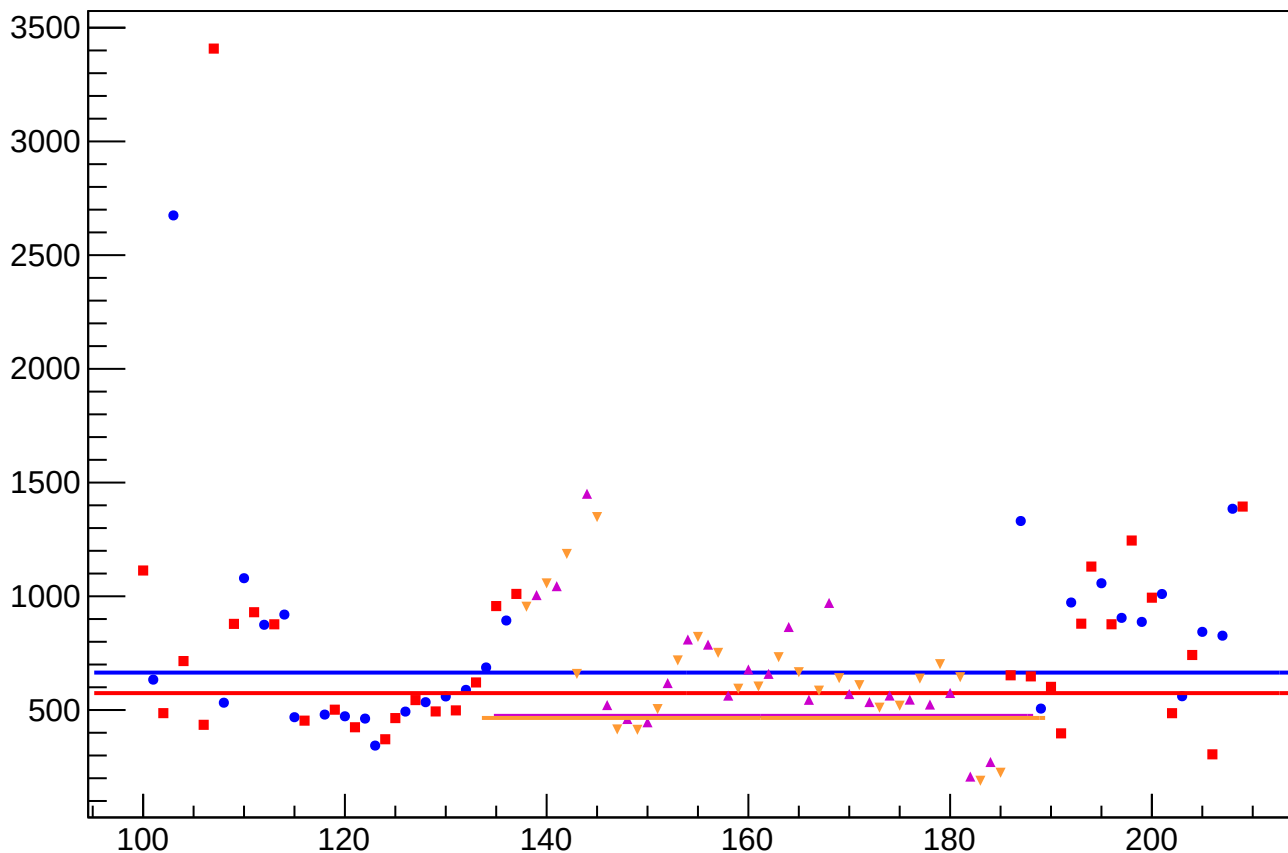
Right: -243.546 ± 125.659 χ^2/NDF : 64.8/59

In: -134.638 ± 105.240 χ^2/NDF : 43.2/50

Out: -170.627 ± 98.599 χ^2/NDF : 72.4/56

All: -153.803 ± 71.953 χ^2/NDF : 115.7/107

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 664.533+/-0.134 χ^2/NDF : 3055964.4/27

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 574.279+/-0.118 χ^2/NDF : 4369725.1/31

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

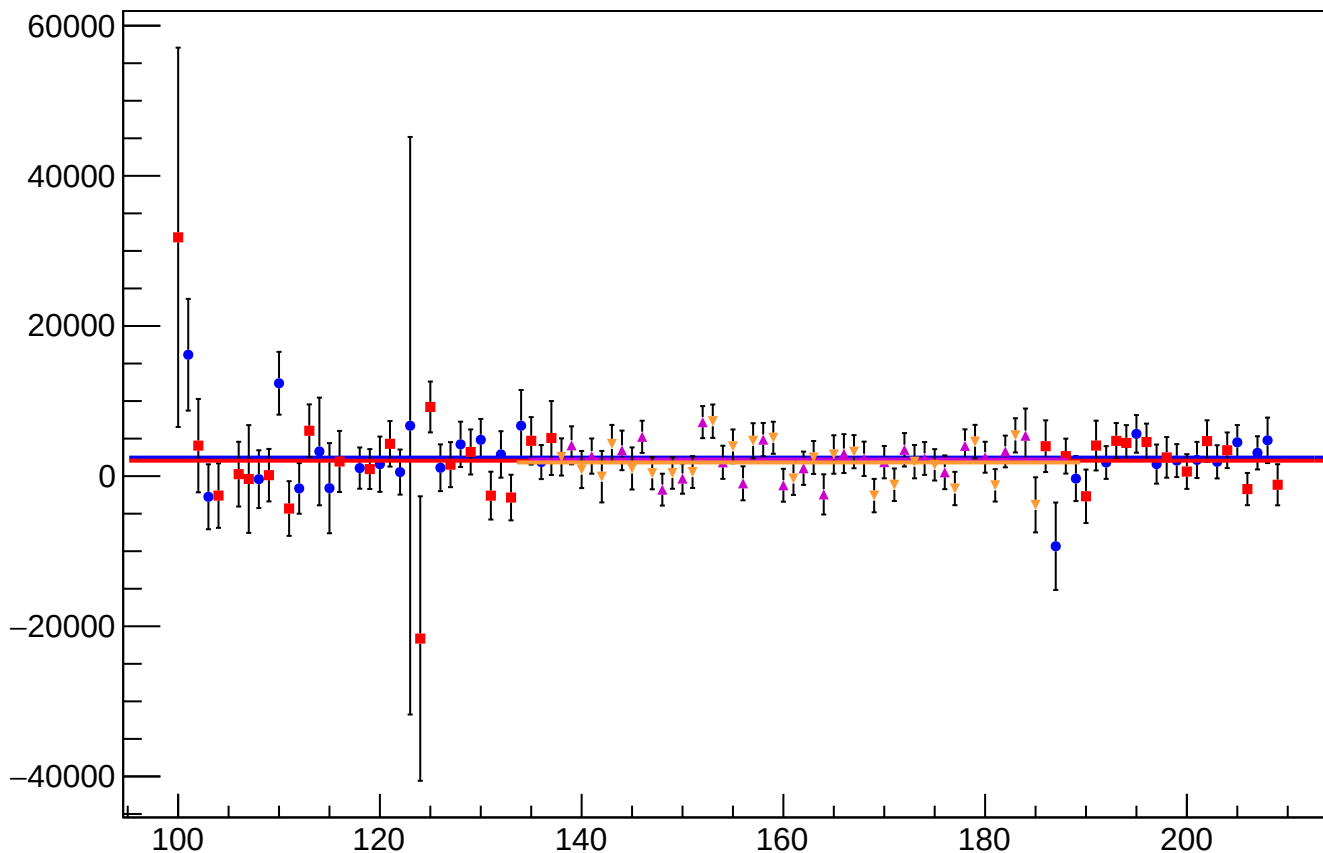
Right: 613.717+/-0.089 χ^2/NDF : 7679527.7/59

In: 532.579+/-0.074 χ^2/NDF : 10618645.3/50

Out: 502.935+/-0.070 χ^2/NDF : 12011455.3/56

All: 516.792+/-0.051 χ^2/NDF : 22714612.0/100

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2466.773 $\pm$ 569.759 χ^2 /NDF: 24.2/27

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 2060.503 $\pm$ 550.038 χ^2 /NDF: 32.3/31

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

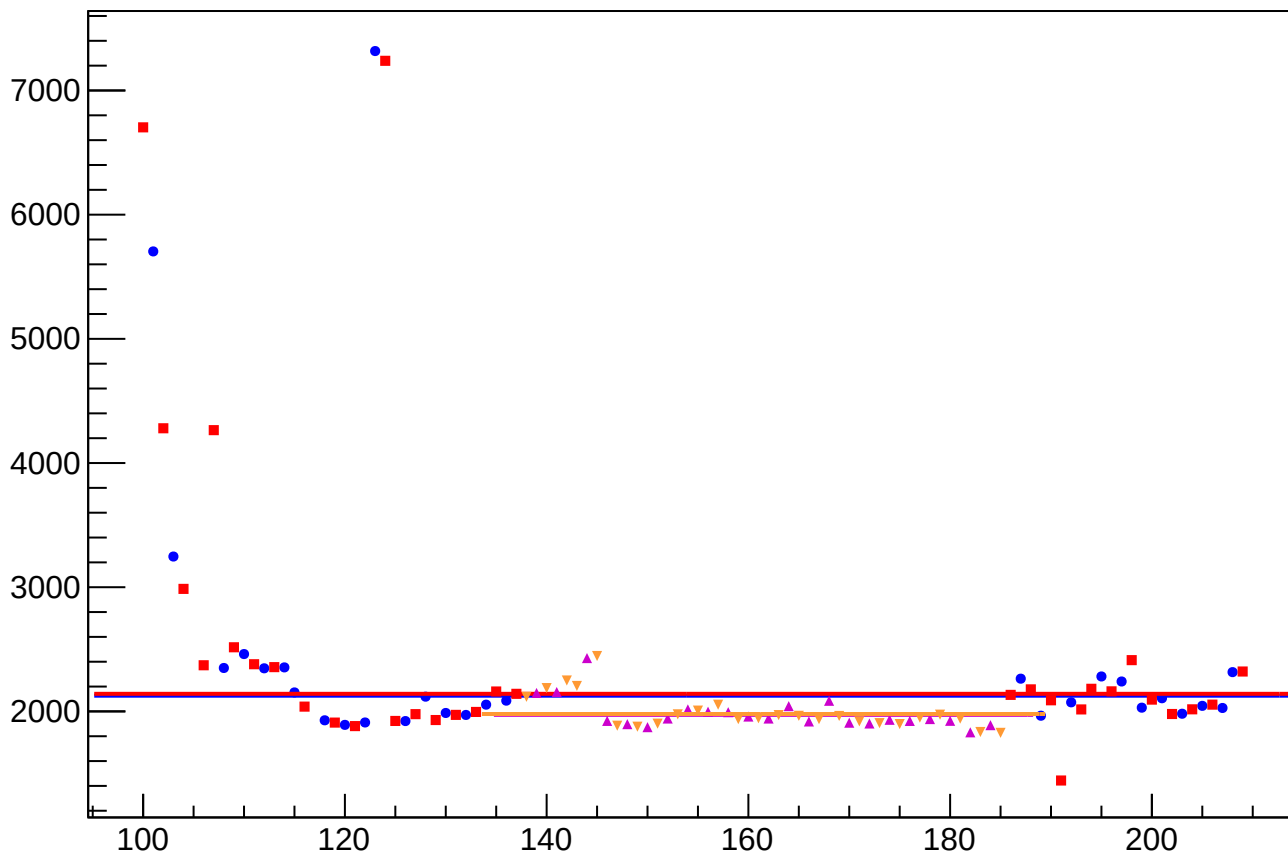
Right: 2256.485 $\pm$ 395.724 χ^2 /NDF: 56.7/59

In: 2313.924 $\pm$ 364.411 χ^2 /NDF:49.7/50

Out: 1922.043 $\pm$ 354.077 χ^2 /NDF:64.5/56

All: 2112.348 $\pm$ 253.945 χ^2 /NDF: 114.7/107

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2126.547 $\pm$ 0.403 χ^2 /NDF: 758503.1/27

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF: 139299.8/24

Right Out: 2141.522 $\pm$ 0.389 χ^2 /NDF: 950510.1/31

Left In: 1972.166 $\pm$ 0.335 χ^2 /NDF: 116452.5/22

Left: 1975.665 $\pm$ 0.234 χ^2 /NDF: 255965.0/47

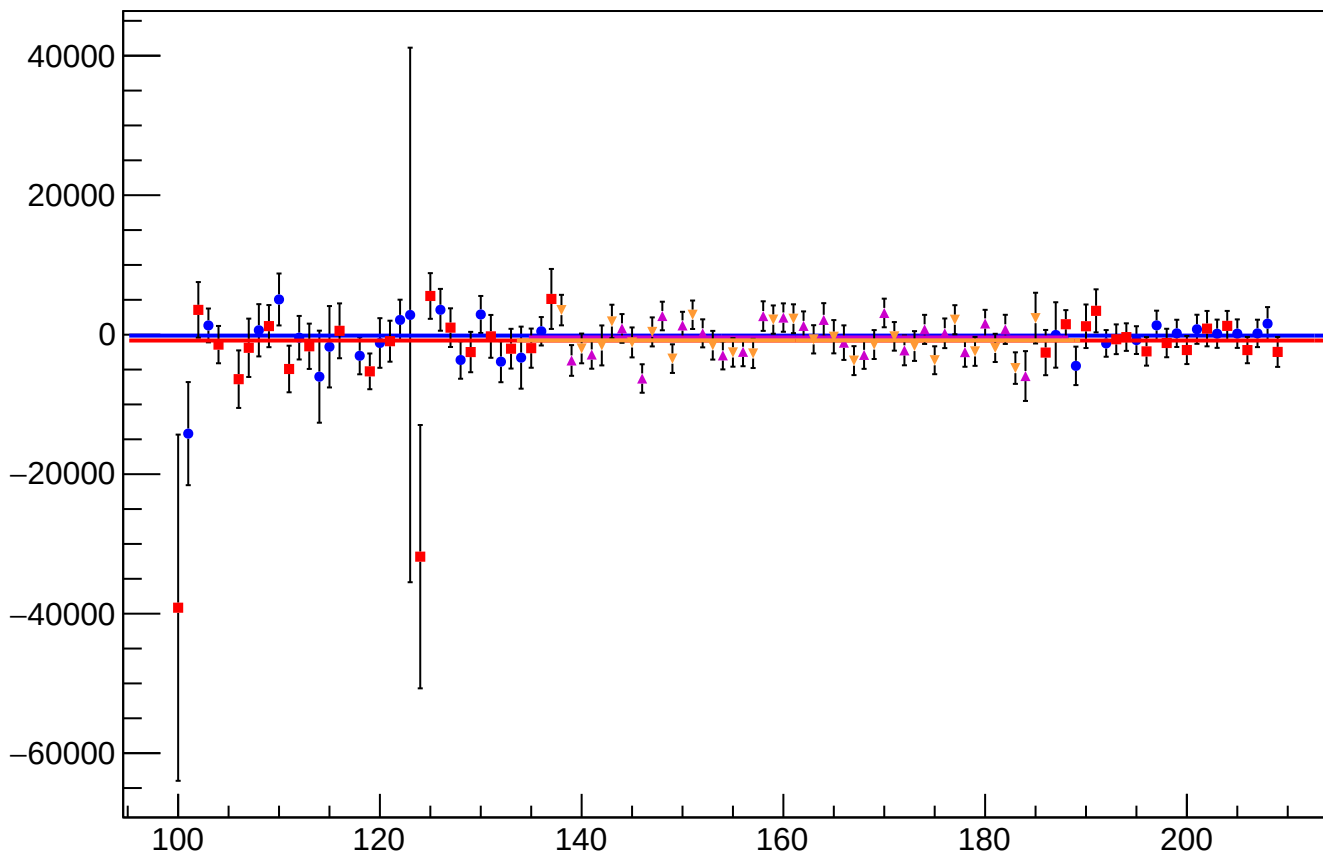
Right: 2134.298 $\pm$ 0.280 χ^2 /NDF: 1709728.4/59

In: 2035.319 $\pm$ 0.258 χ^2 /NDF: 961724.7/50

Out: 2046.346 $\pm$ 0.250 χ^2 /NDF: 1192066.7/56

All: 2040.991 $\pm$ 0.180 χ^2 /NDF: 2154733.4/106

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -131.148+/-502.277 χ^2/NDF : 19.7/27

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -835.981+/-480.983 χ^2/NDF : 27.8/31

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

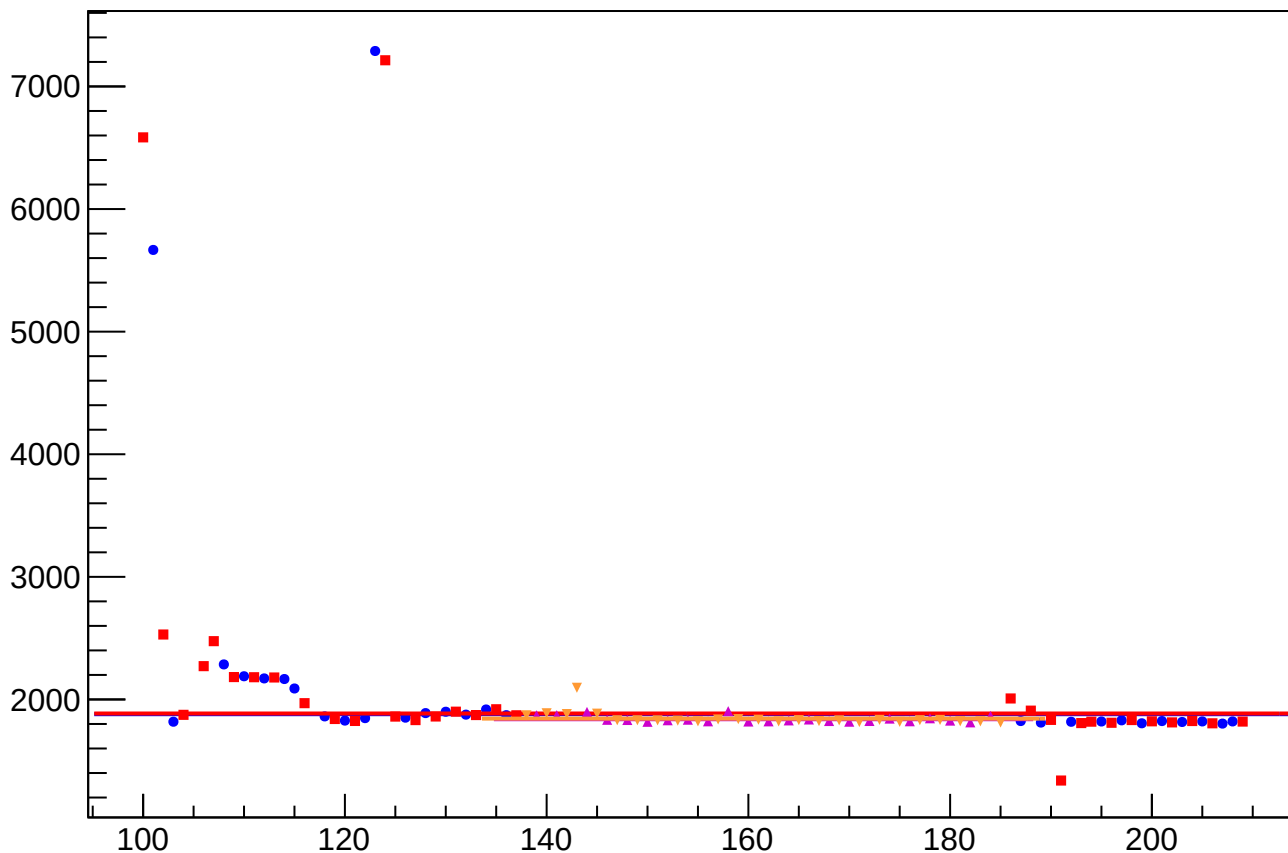
Right: -498.822+/-347.390 χ^2/NDF : 48.5/59

In: -282.213+/-331.497 χ^2/NDF : 54.2/50

Out: -820.681+/-320.696 χ^2/NDF : 55.7/56

All: -560.362+/-230.490 χ^2/NDF : 111.3/107

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1879.685 $\pm$ 0.355 χ^2 /NDF: 647193.2/27

Left Out: 1843.747 $\pm$ 0.304 χ^2 /NDF: 26867.4/24

Right Out: 1885.433 $\pm$ 0.340 χ^2 /NDF: 482080.2/31

Left In: 1838.611 $\pm$ 0.312 χ^2 /NDF: 6335.1/22

Left: 1841.243 $\pm$ 0.218 χ^2 /NDF: 33341.4/47

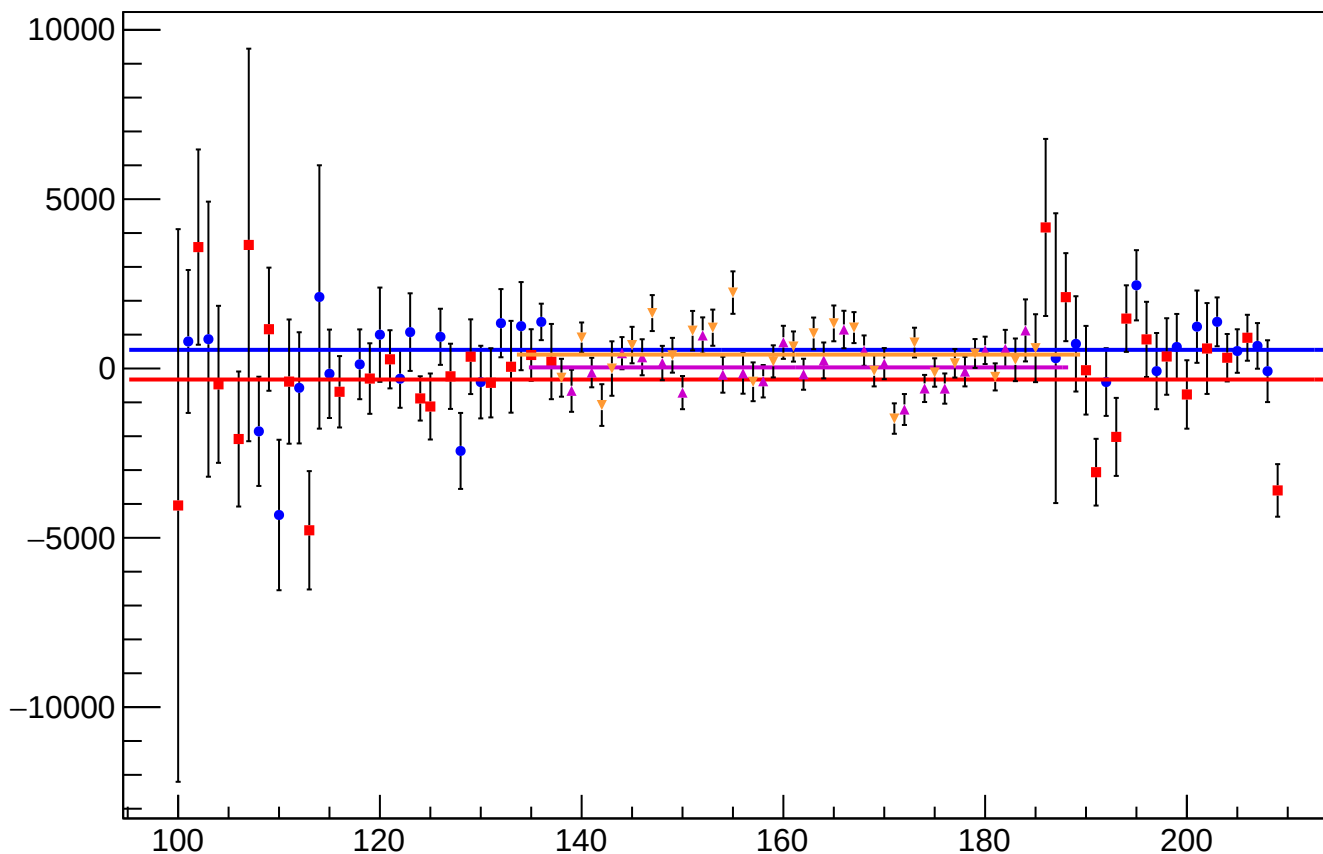
Right: 1882.684 $\pm$ 0.246 χ^2 /NDF: 1129410.0/59

In: 1856.502 $\pm$ 0.234 χ^2 /NDF: 661077.0/50

Out: 1862.279 $\pm$ 0.227 χ^2 /NDF: 517292.1/56

All: 1859.486 $\pm$ 0.163 χ^2 /NDF: 1178682.9/10

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 550.664 $\pm$ 193.983 χ^2 /NDF: 27.6/27

Left Out: 411.072 $\pm$ 100.456 χ^2 /NDF:61.2/24

Right Out: -325.435 $\pm$ 191.816 χ^2 /NDF: 57.9/31

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

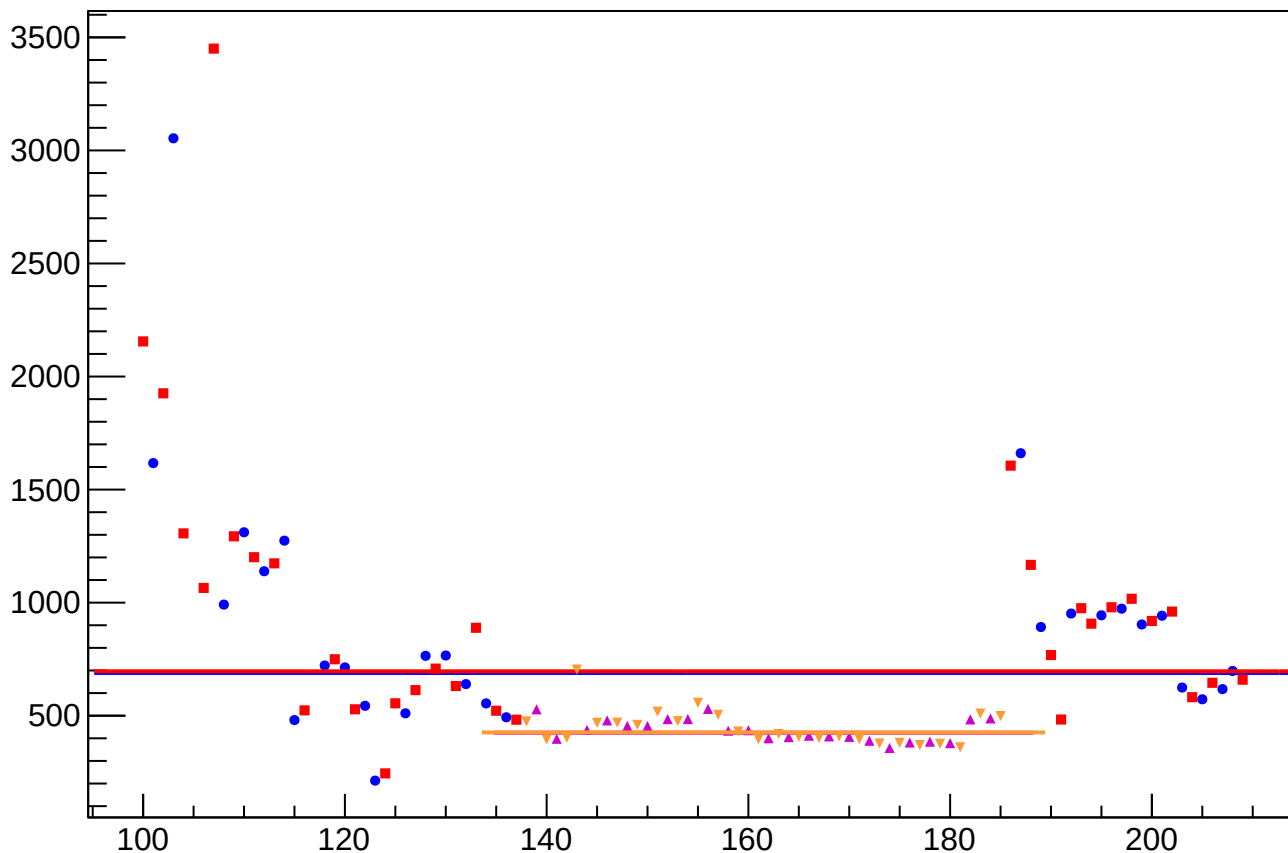
Right: 107.694 $\pm$ 136.394 χ^2 /NDF: 95.8/59

In: 145.396 $\pm$ 90.559 χ^2 /NDF:66.0/50

Out: 252.547 $\pm$ 88.991 χ^2 /NDF:130.6/56

All: 199.907 $\pm$ 63.473 χ^2 /NDF: 197.3/107

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 689.018 $\pm$ 0.137 χ^2 /NDF: 3191435.6/27

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 696.231 $\pm$ 0.136 χ^2 /NDF: 4325672.0/31

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

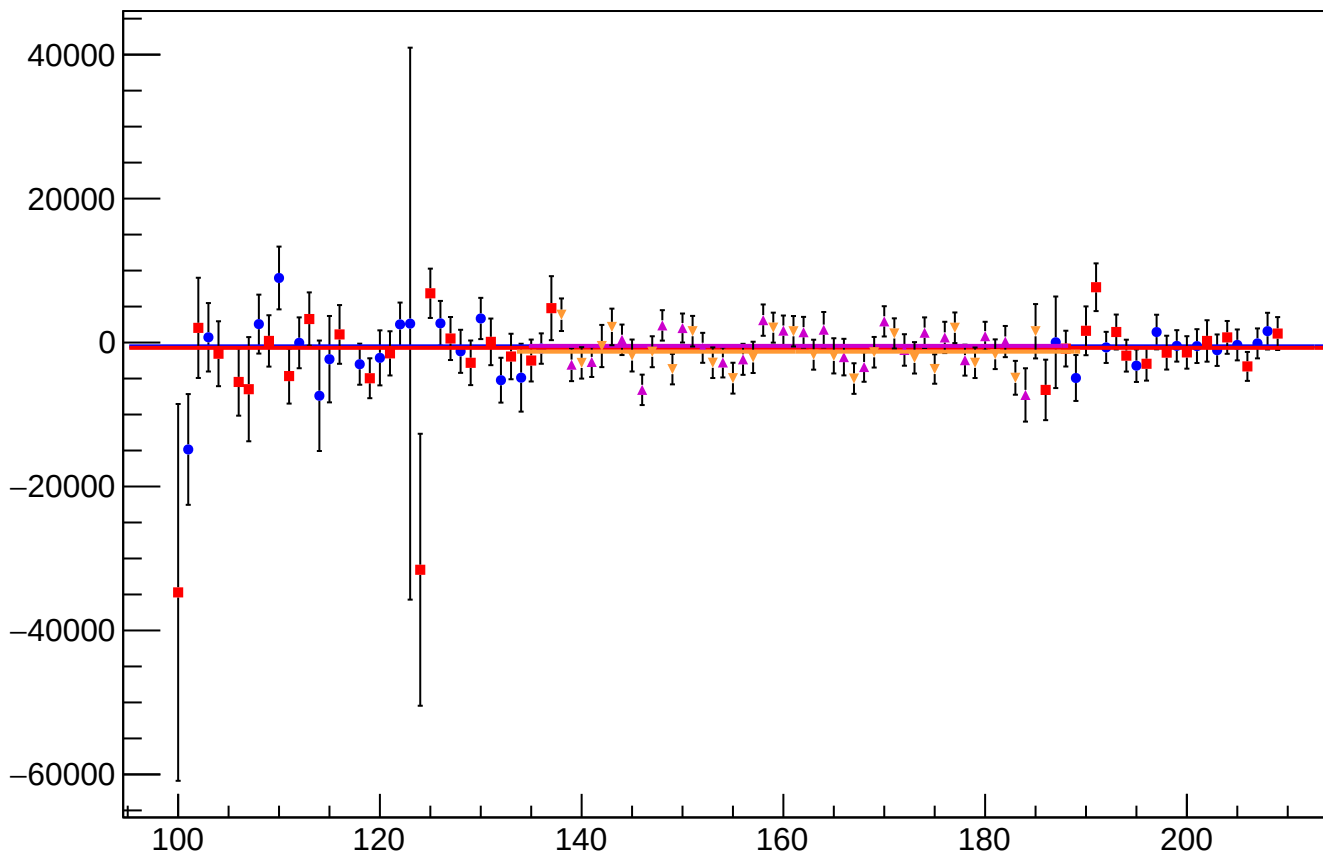
Right: 692.665 $\pm$ 0.096 χ^2 /NDF: 7518505.7/59

In: 482.258 $\pm$ 0.064 χ^2 /NDF: 6488398.5/50

Out: 484.186 $\pm$ 0.063 χ^2 /NDF: 8173189.3/56

All: 483.239 $\pm$ 0.045 χ^2 /NDF: 14662048.8/106

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -526.258 ± 557.707 χ^2/NDF : 22.6/27

Left Out: -1267.885 ± 443.219 χ^2/NDF : 30.8/24

Right Out: -734.395 ± 542.125 χ^2/NDF : 32.6/31

Left In: -462.599 ± 453.947 χ^2/NDF : 32.6/22

Left: -874.870 ± 317.128 χ^2/NDF : 65.0/47

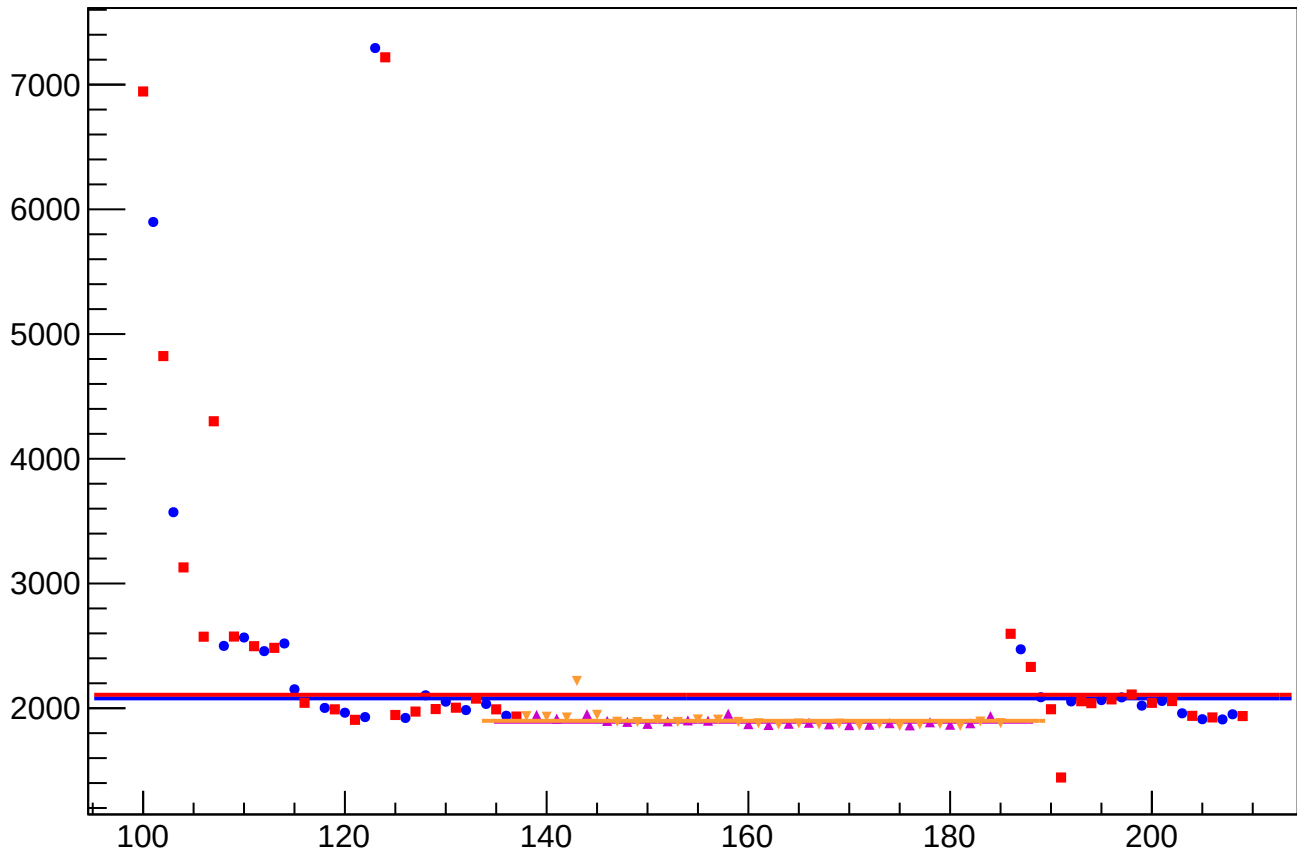
Right: -633.275 ± 388.732 χ^2/NDF : 55.3/59

In: -487.968 ± 352.064 χ^2/NDF : 55.2/50

Out: -1054.156 ± 343.137 χ^2/NDF : 64.0/56

All: -778.331 ± 245.730 χ^2/NDF : 120.5/107

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2078.881 $\pm$ 0.394 χ^2 /NDF: 873143.6/27

Left Out: 1898.962 $\pm$ 0.313 χ^2 /NDF:38680.4/24

Right Out: 2107.899 $\pm$ 0.383 χ^2 /NDF: 1102804.7/31

Left In: 1891.693 $\pm$ 0.321 χ^2 /NDF:7420.7/22

Left: 1895.414 $\pm$ 0.224 χ^2 /NDF: 46363.6/47

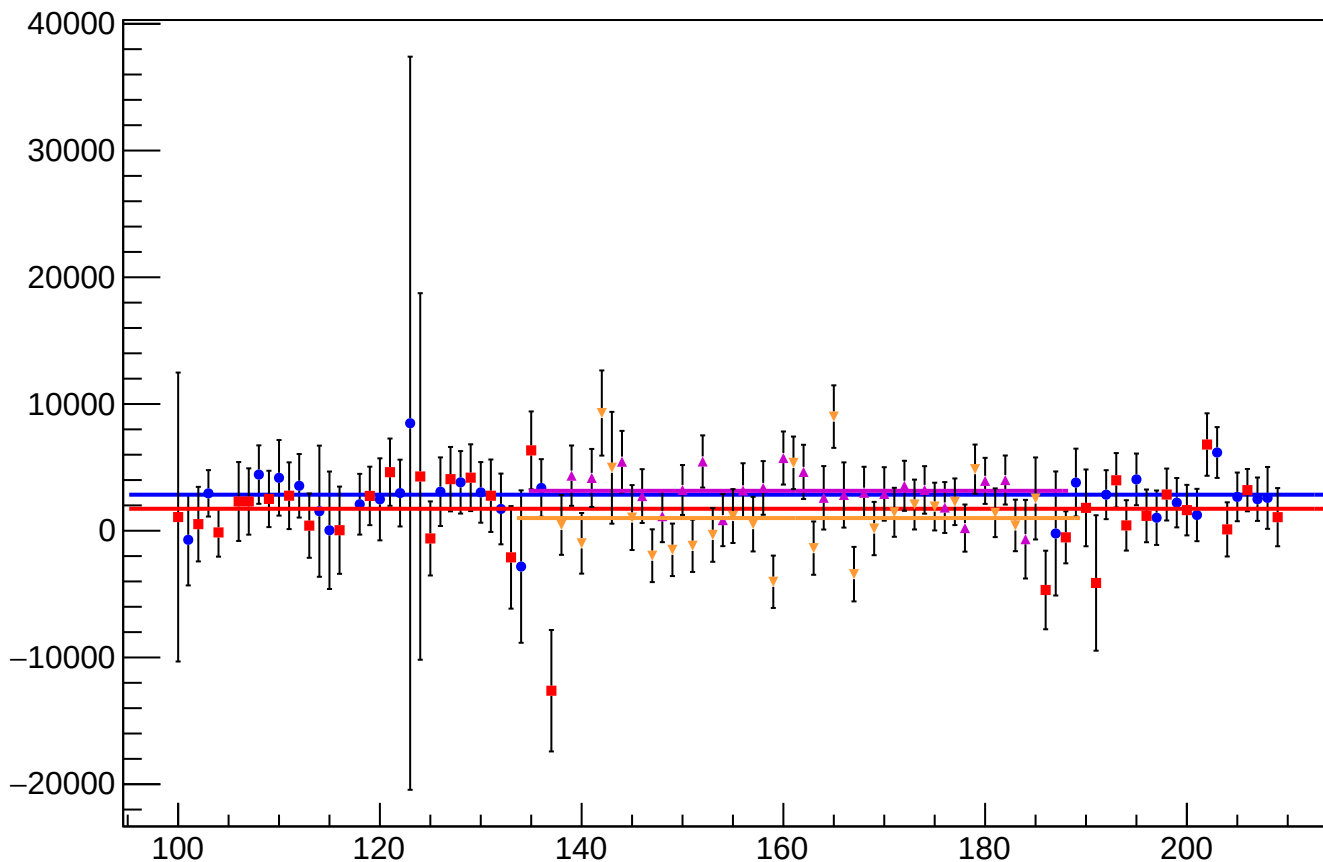
Right: 2093.801 $\pm$ 0.275 χ^2 /NDF: 1978732.2/59

In: 1966.288 $\pm$ 0.249 χ^2 /NDF:1016085.9/50

Out: 1982.667 $\pm$ 0.243 χ^2 /NDF:1319543.7/56

All: 1974.688 $\pm$ 0.174 χ^2 /NDF: 2337849.6/10

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2844.929 $\pm$ 466.622 χ^2 /NDF: 8.7/27

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1733.961 $\pm$ 450.654 χ^2 /NDF: 32.3/31

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

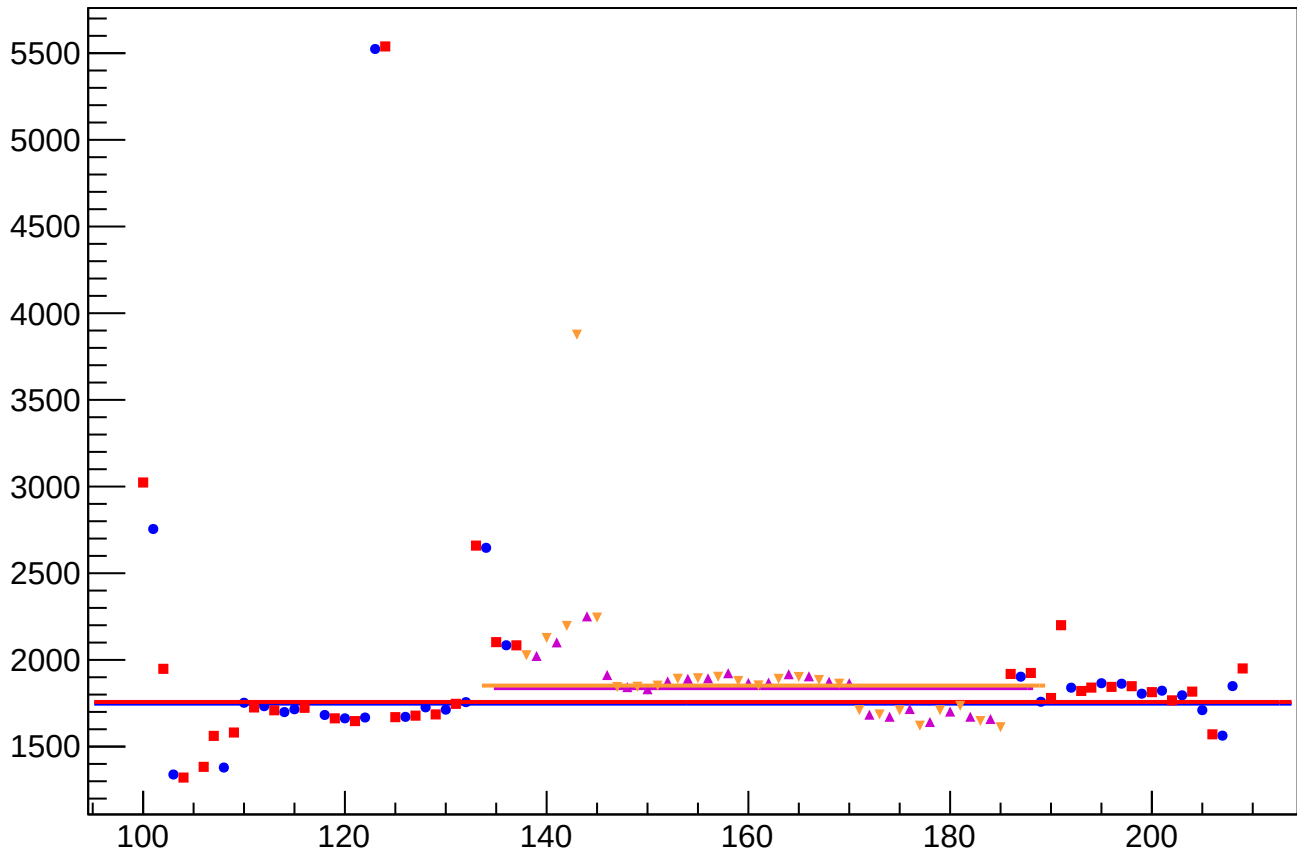
Right: 2270.112 $\pm$ 324.158 χ^2 /NDF: 43.9/59

In: 3006.250 $\pm$ 320.565 χ^2 /NDF:20.8/50

Out: 1354.874 $\pm$ 313.071 χ^2 /NDF:78.3/56

All: 2161.035 $\pm$ 223.977 χ^2 /NDF: 112.6/107

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1747.872 $\pm$ 0.330 χ^2 /NDF: 489295.9/27

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1757.529 $\pm$ 0.319 χ^2 /NDF: 561392.7/31

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

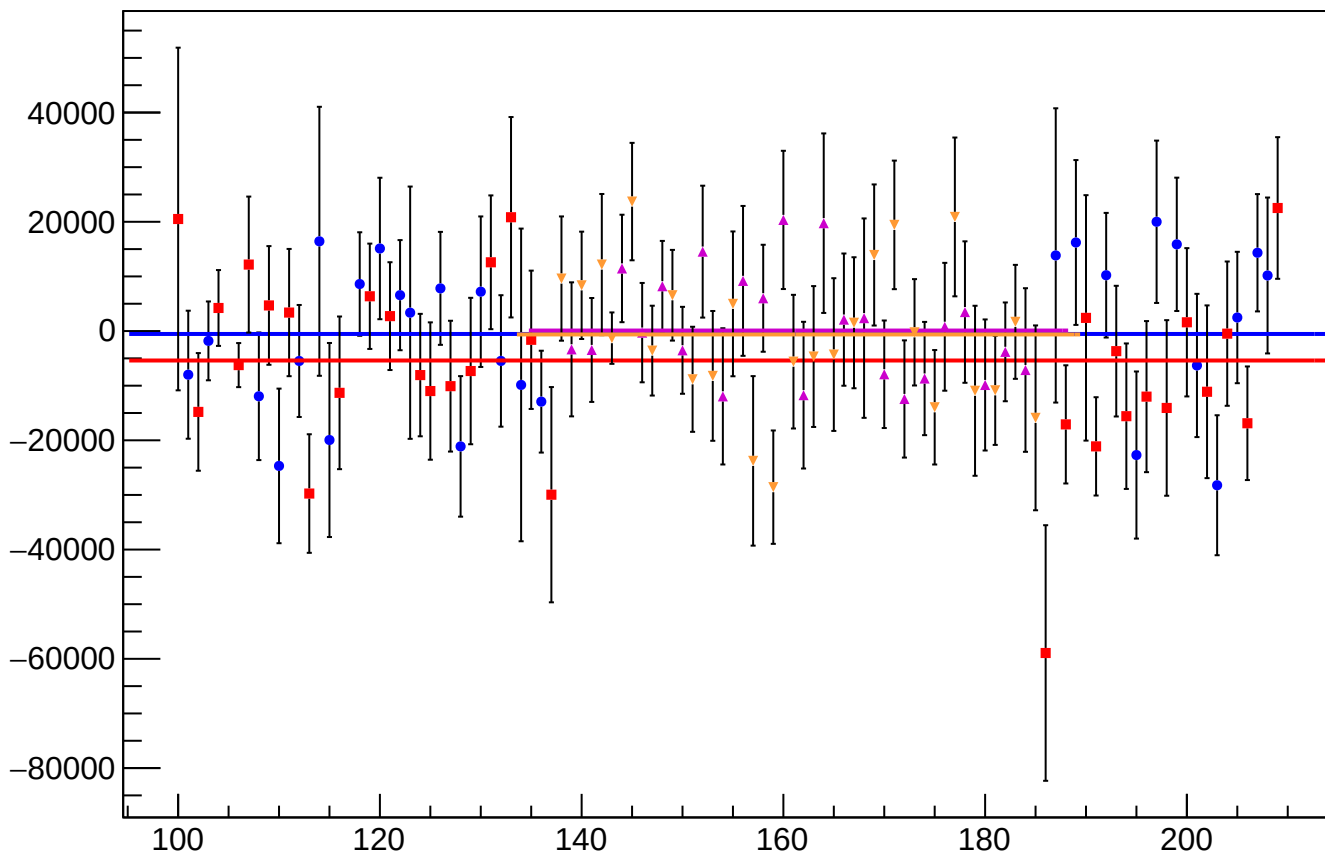
Right: 1752.869 $\pm$ 0.229 χ^2 /NDF: 1051131.7/59

In: 1795.015 $\pm$ 0.227 χ^2 /NDF: 728470.0/50

Out: 1806.385 $\pm$ 0.221 χ^2 /NDF: 1255780.5/56

All: 1800.835 $\pm$ 0.158 χ^2 /NDF: 1985538.4/100

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -533.759+/-2333.478 χ^2/NDF : 30.3/27

Left Out: -619.372+/-2069.686 χ^2/NDF : 30.1/24

Right Out: -5389.969+/-1921.296 χ^2/NDF : 37.6/31

Left In: 93.334+/-2293.826 χ^2/NDF : 14.6/22

Left: -299.532+/-1536.638 χ^2/NDF : 44.8/47

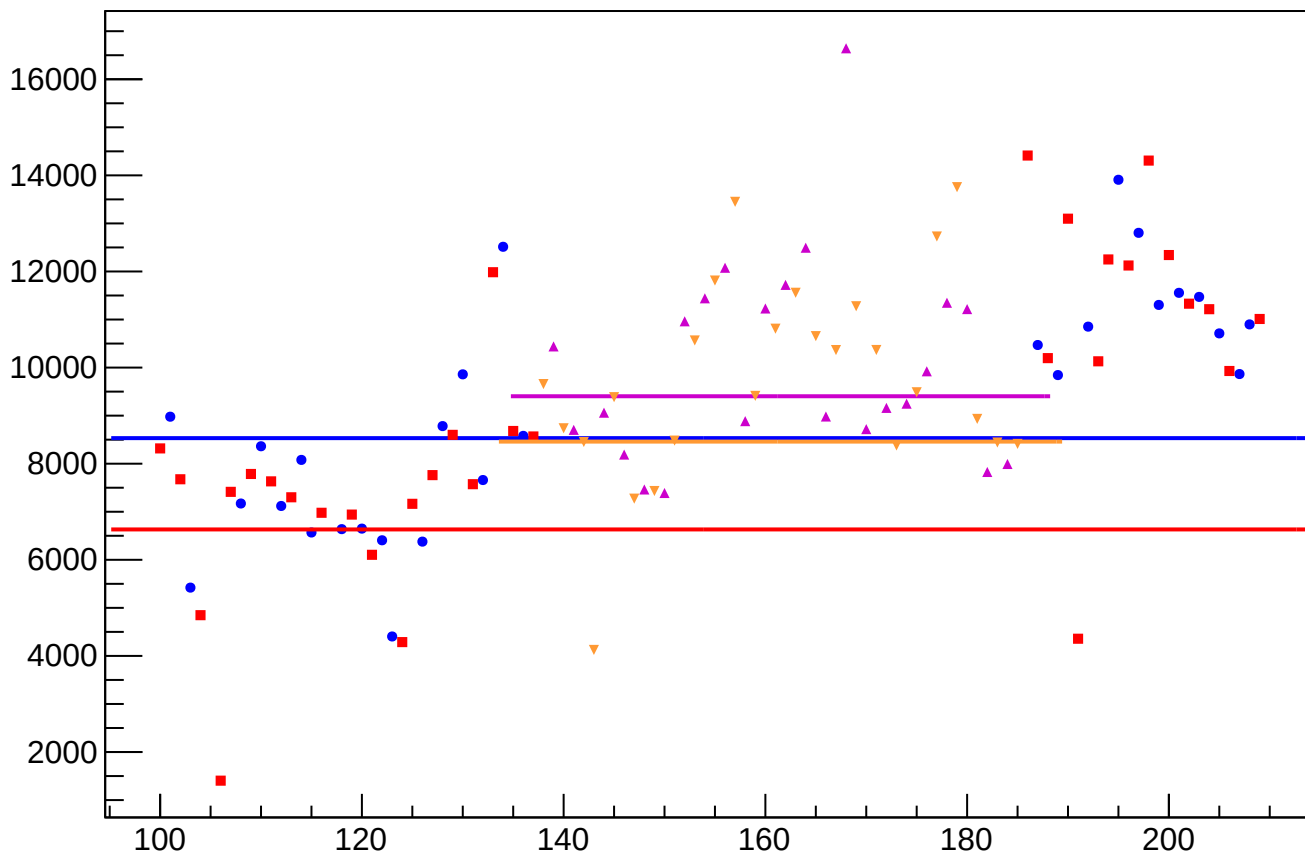
Right: -3427.935+/-1483.229 χ^2/NDF : 70.5/59

In: -214.839+/-1635.819 χ^2/NDF : 45.0/50

Out: -3181.802+/-1408.102 χ^2/NDF : 70.6/56

All: -1919.045+/-1067.183 χ^2/NDF : 117.4/10

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8531.998 $\pm$ 1.650

χ^2 /NDF: 1882432.2/27

Left: 8883.382 $\pm$ 1.087 χ^2 /NDF: 4416376.4/47

Right: 7399.633 $\pm$ 1.049 χ^2 /NDF: 9888671.1/59

Left Out: 8459.960 $\pm$ 1.463

χ^2 /NDF: 3087200.5/24

In: 8975.207 $\pm$ 1.157 χ^2 /NDF: 3166949.0/50

Right Out: 6631.974 $\pm$ 1.359

χ^2 /NDF: 7215982.2/31

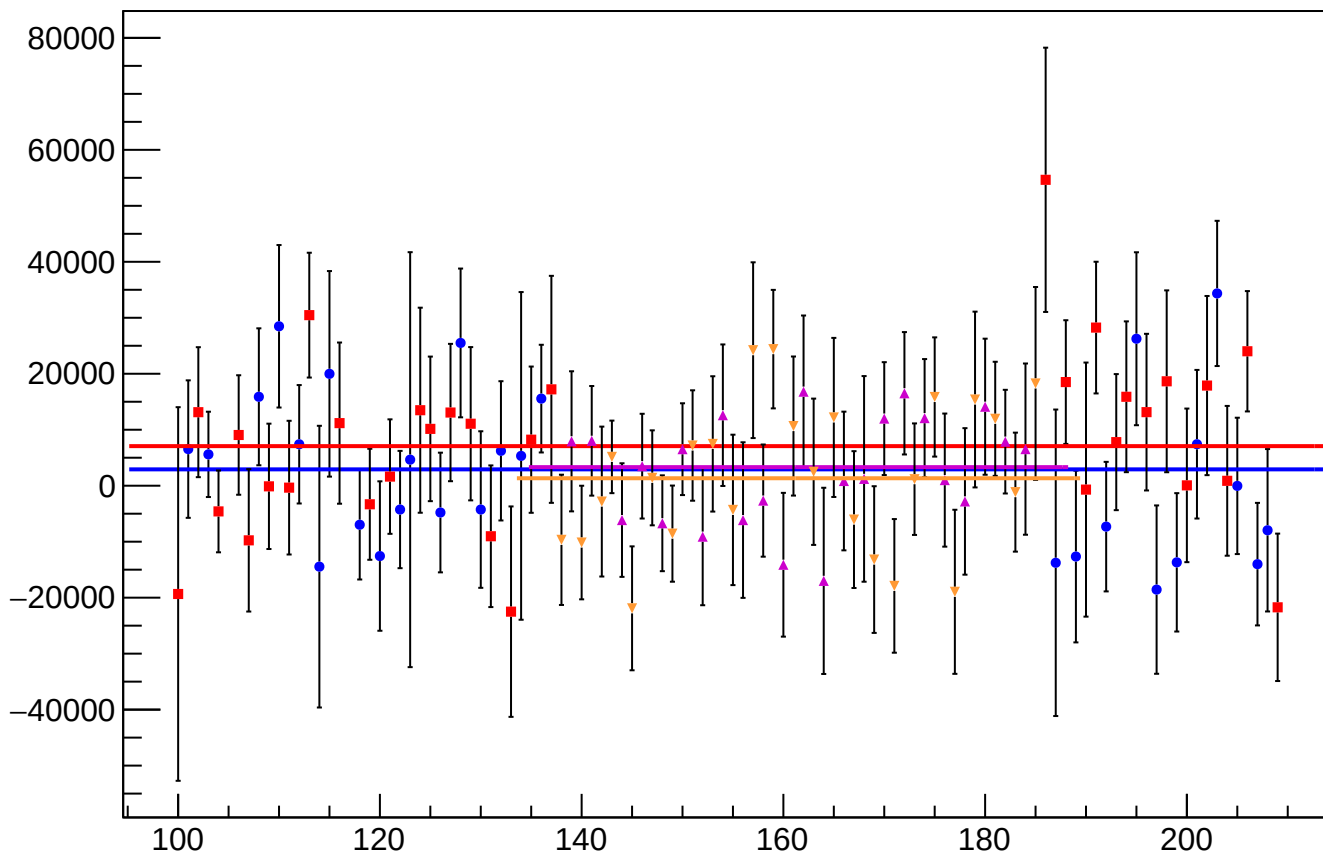
Out: 7478.094 $\pm$ 0.996 χ^2 /NDF: 11141186.4/56

Left In: 9403.481 $\pm$ 1.622

χ^2 /NDF: 1142646.9/22

All: 8115.274 $\pm$ 0.755 χ^2 /NDF: 15270364.4/100

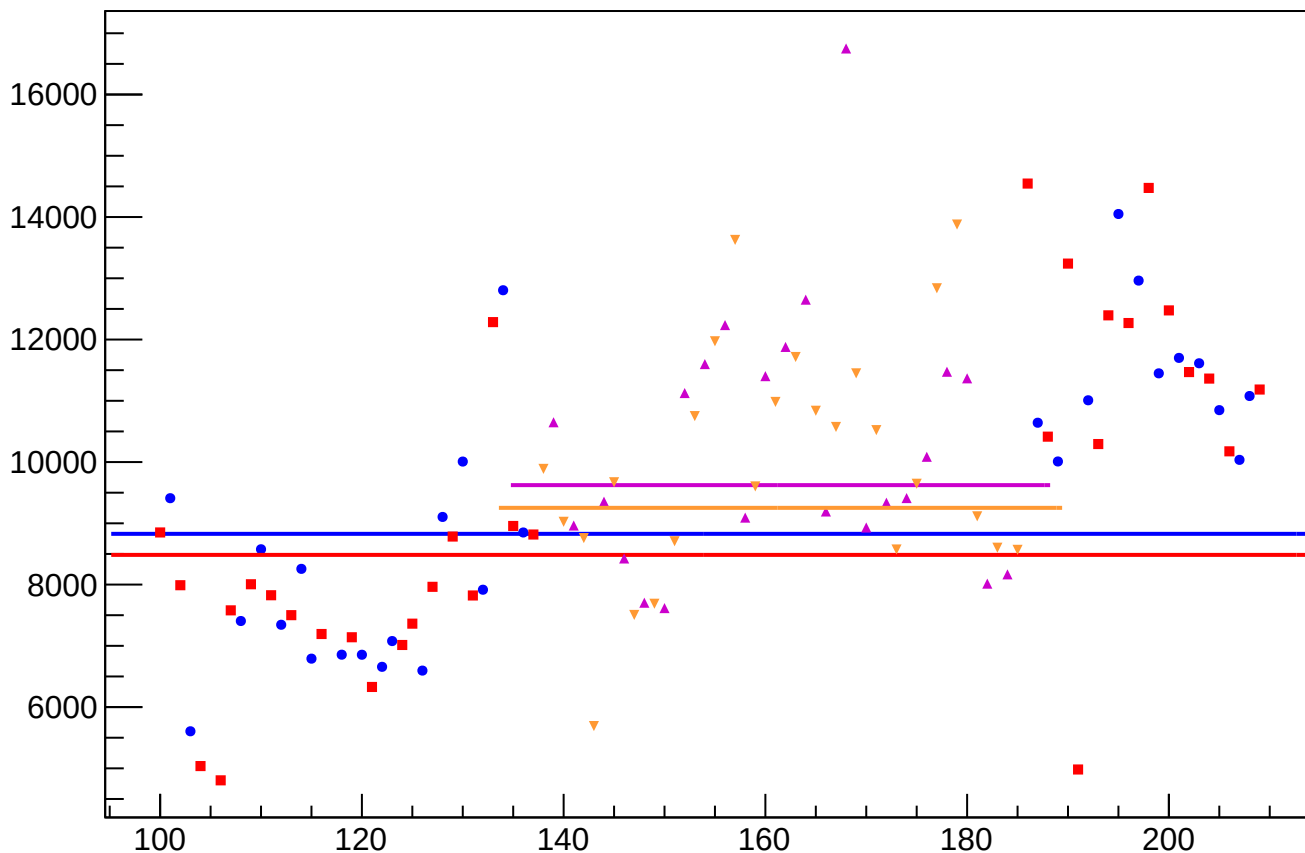
asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2920.122+/-2409.038 χ^2/NDF : 31.6/27
 Left Out: 1332.828+/-2213.733 χ^2/NDF : 28.0/24
 Right Out: 7070.643+/-2250.283 χ^2/NDF : 34.6/31
 Left In: 3316.909+/-2344.543 χ^2/NDF : 13.7/22

Left: 2267.978+/-1609.604 χ^2/NDF : 42.2/47
 Right: 5136.638+/-1644.452 χ^2/NDF : 67.7/59
 In: 3123.898+/-1680.181 χ^2/NDF : 45.3/50
 Out: 4154.760+/-1578.109 χ^2/NDF : 65.9/56
 All: 3671.591+/-1150.285 χ^2/NDF : 111.4/107

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 8828.297 $\pm$ 1.703 χ^2 /NDF: 1694885.6/27

Left Out: 9252.712 $\pm$ 1.565 χ^2 /NDF: 1597668.9/24

Right Out: 8484.689 $\pm$ 1.591 χ^2 /NDF: 2542000.3/31

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

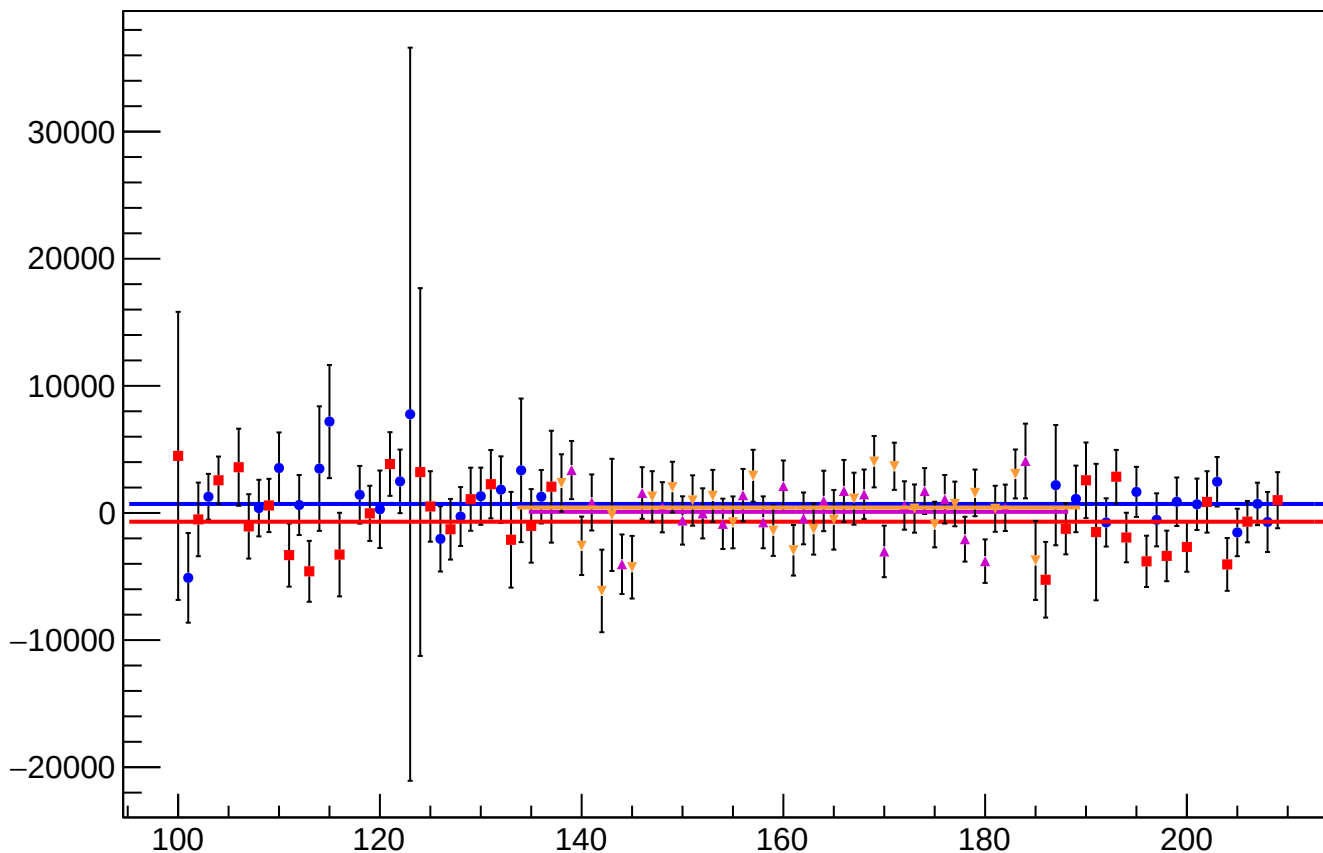
Right: 8644.785 $\pm$ 1.163 χ^2 /NDF: 4258617.1/59

In: 9236.671 $\pm$ 1.188 χ^2 /NDF: 2876724.0/50

Out: 8874.949 $\pm$ 1.116 χ^2 /NDF: 4258074.9/56

All: 9044.482 $\pm$ 0.813 χ^2 /NDF: 7184051.4/10

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 708.663+/-449.259 χ^2/NDF : 12.8/27

Left Out: 429.447+/-416.378 χ^2/NDF : 28.7/24

Right Out: -686.943+/-434.293 χ^2/NDF : 31.7/31

Left In: 88.373+/-421.957 χ^2/NDF : 21.0/22

Left: 261.180+/-296.376 χ^2/NDF : 50.0/47

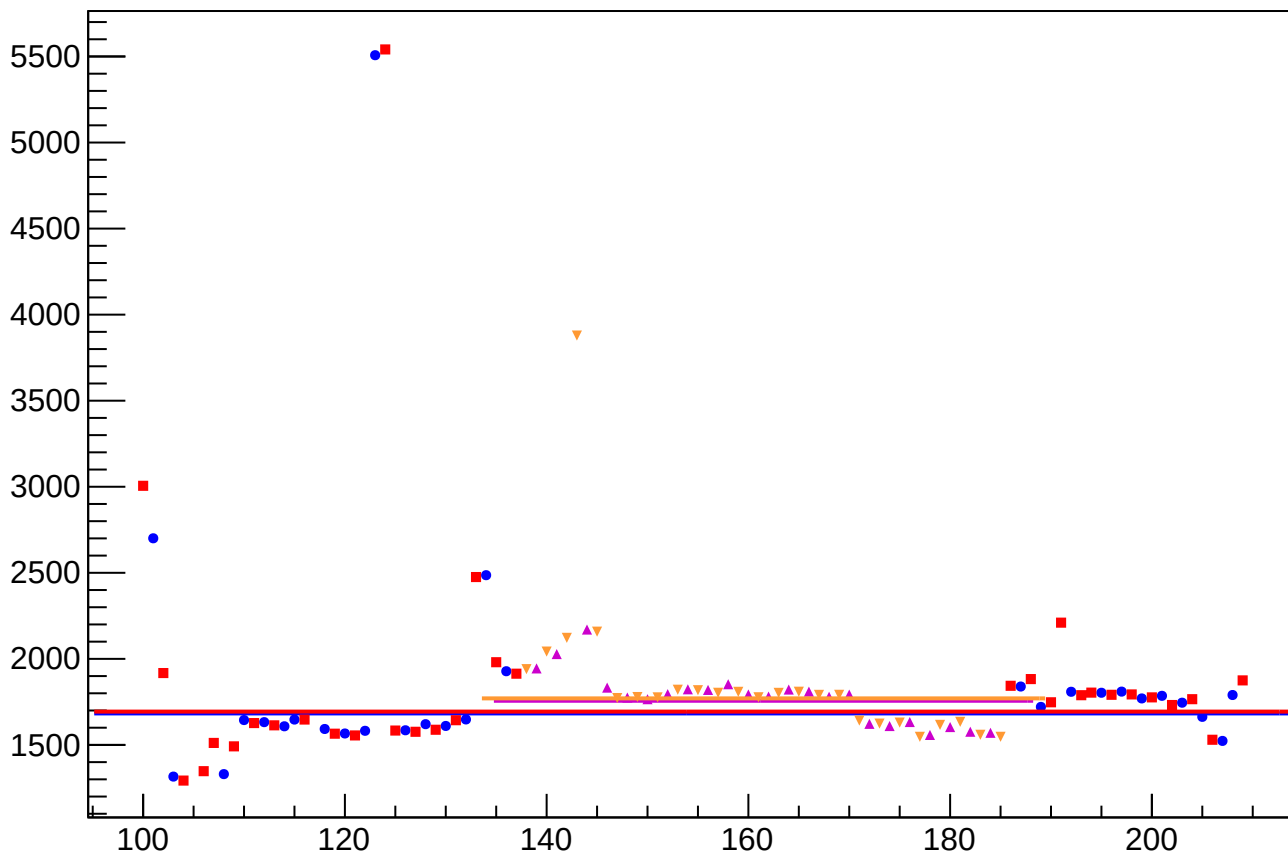
Right: -12.773+/-312.248 χ^2/NDF : 49.5/59

In: 379.099+/-307.568 χ^2/NDF : 34.7/50

Out: -105.248+/-300.558 χ^2/NDF : 63.9/56

All: 131.343+/-214.962 χ^2/NDF : 99.9/107

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1683.025+/-0.318 χ^2/NDF : 480736.2/27

Left Out: 1770.384+/-0.294 χ^2/NDF : 699536.9/24

Right Out: 1693.600+/-0.307 χ^2/NDF : 569725.3/31

Left In: 1756.623+/-0.298 χ^2/NDF : 223077.6/22

Left: 1763.595+/-0.210 χ^2/NDF : 923692.1/47

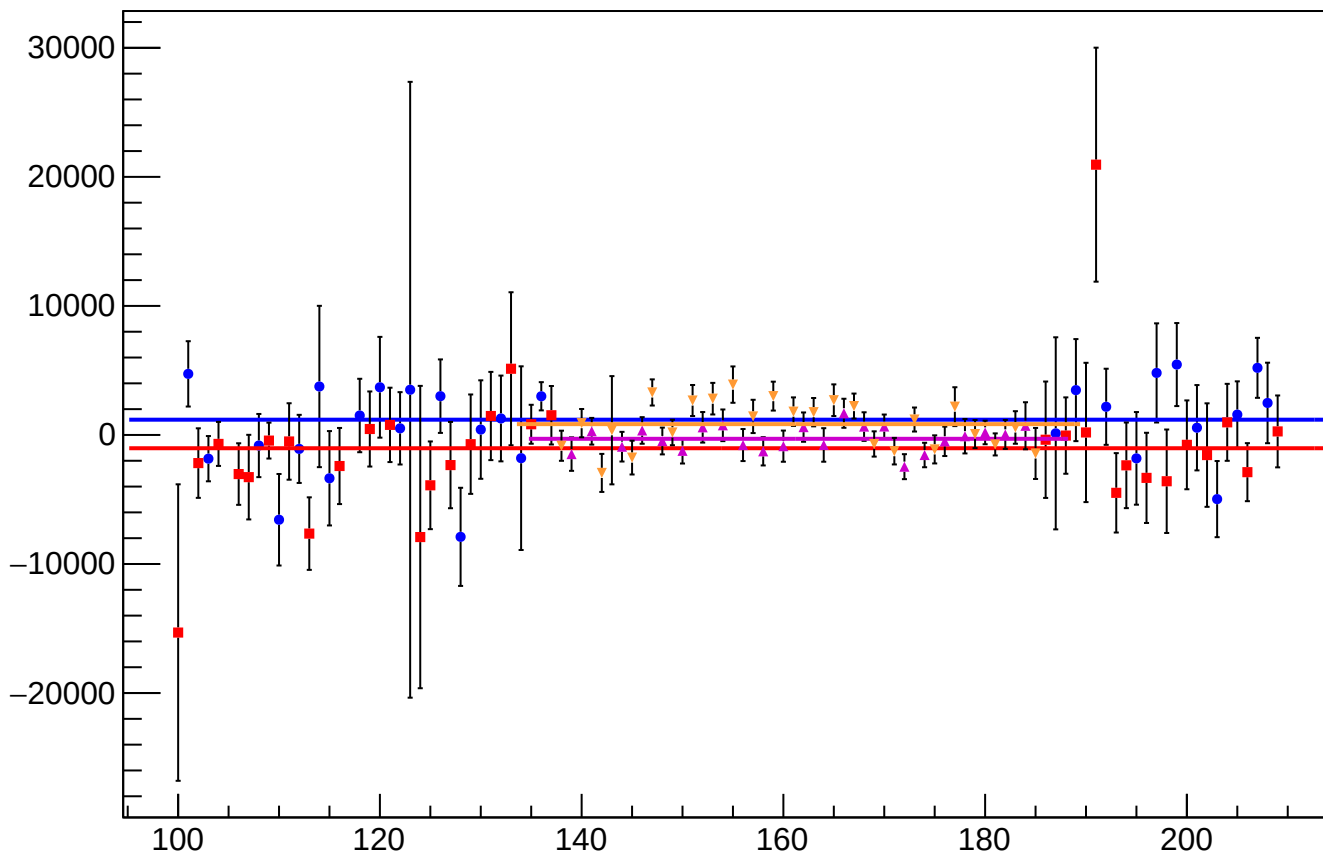
Right: 1688.491+/-0.221 χ^2/NDF : 1051034.3/59

In: 1722.128+/-0.217 χ^2/NDF : 732331.7/50

Out: 1733.608+/-0.213 χ^2/NDF : 1301837.4/56

All: 1728.000+/-0.152 χ^2/NDF : 2035594.4/10

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1183.023+/-528.444 χ^2/NDF : 33.8/27

Left Out: 839.344+/-230.465 χ^2/NDF : 54.4/24

Right Out: -1029.352+/-499.737 χ^2/NDF : 24.9/31

Left In: -298.801+/-231.400 χ^2/NDF : 18.3/22

Left: 272.574+/-163.293 χ^2/NDF : 84.9/47

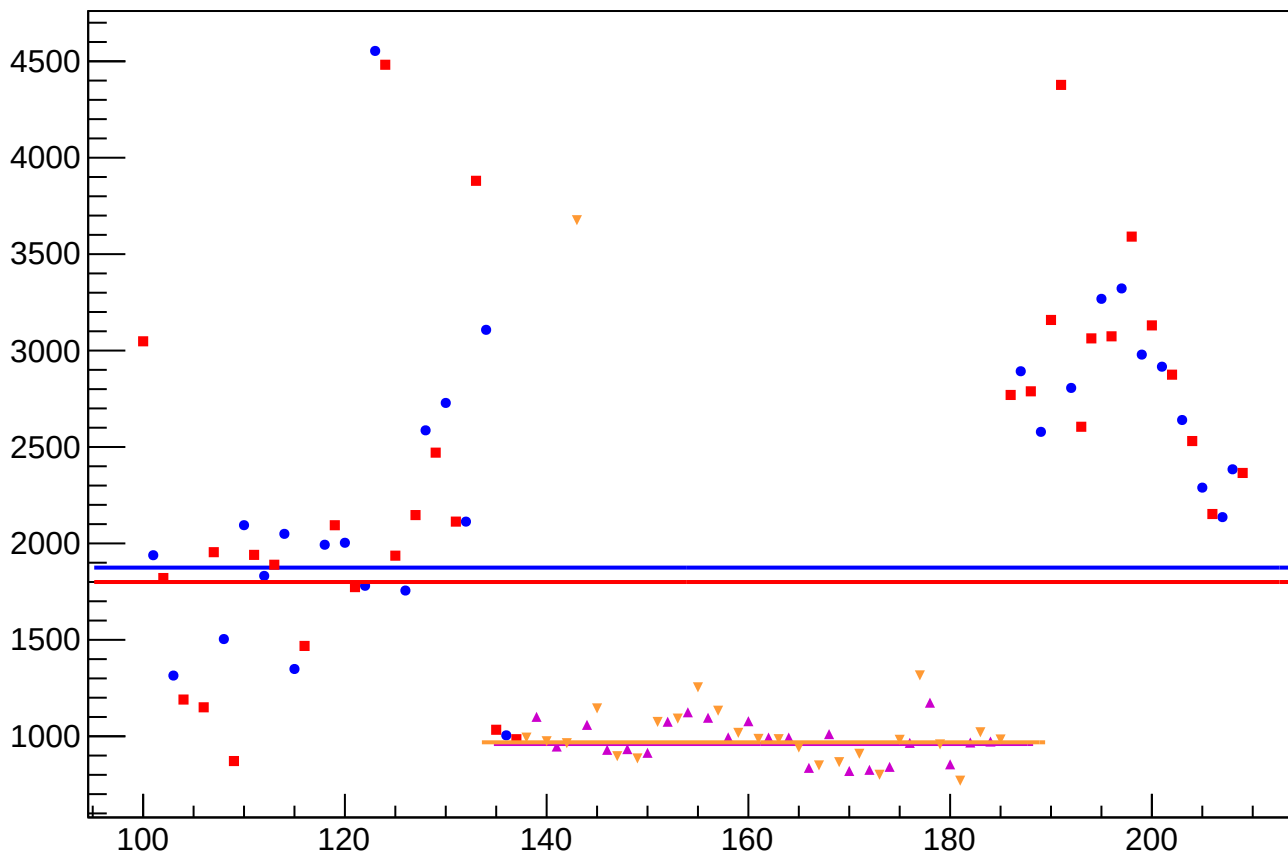
Right: 15.112+/-363.092 χ^2/NDF : 67.9/59

In: -60.383+/-211.968 χ^2/NDF : 58.7/50

Out: 511.611+/-209.282 χ^2/NDF : 90.8/56

All: 229.261+/-148.925 χ^2/NDF : 153.2/107

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1874.589+/-0.374 χ^2/NDF : 3429988.7/27

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1799.883+/-0.353 χ^2/NDF : 4994107.1/31

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

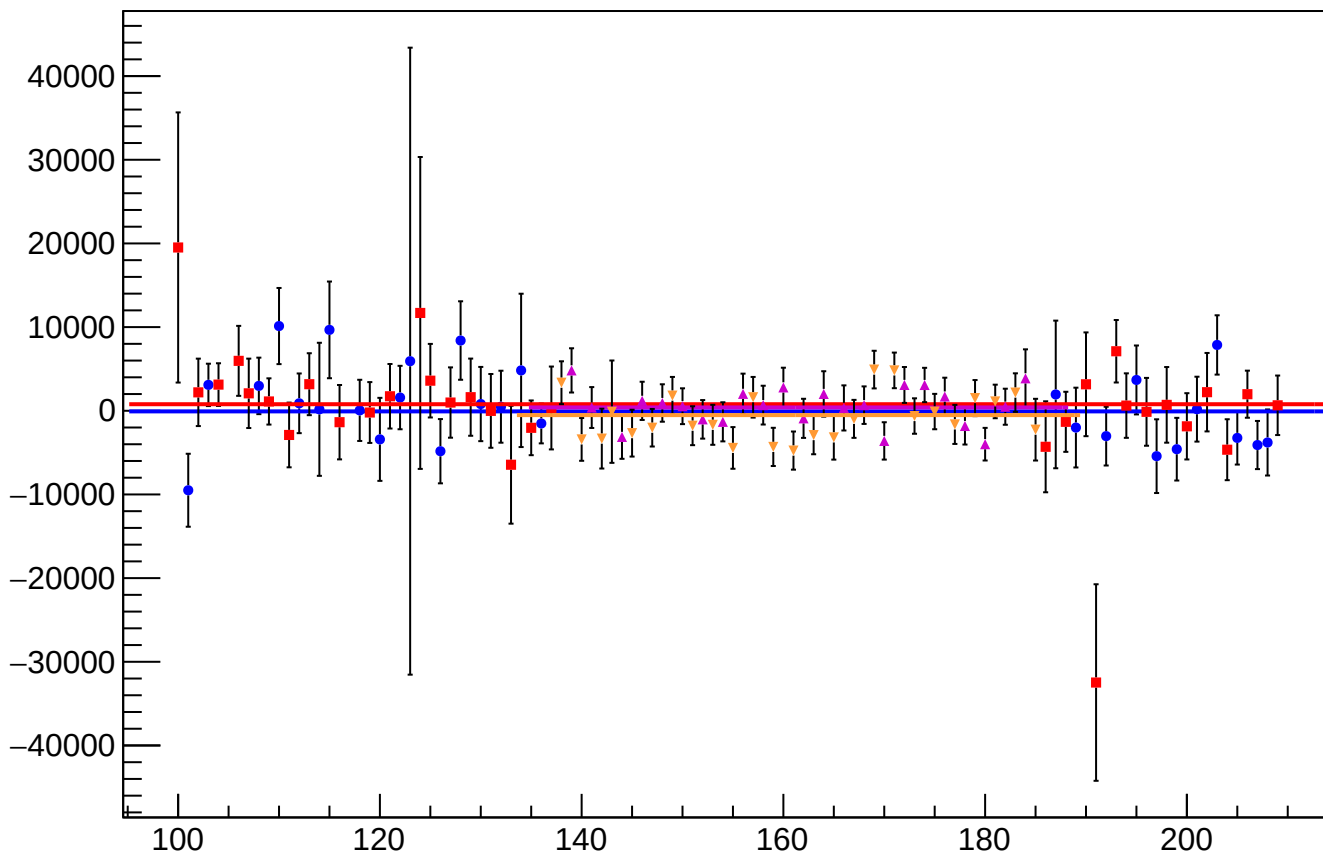
Right: 1835.152+/-0.257 χ^2/NDF : 8445196.4/59

In: 1106.989+/-0.150 χ^2/NDF : 8830237.5/50

Out: 1114.483+/-0.148 χ^2/NDF : 10950082.3/56

All: 1110.784+/-0.105 χ^2/NDF : 19781585.7/112

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -72.744 ± 743.106 χ^2/NDF : 34.7/27

Left Out: -517.719 ± 481.486 χ^2/NDF : 34.0/24

Right Out: 784.016 ± 716.740 χ^2/NDF : 23.5/31

Left In: 397.398 ± 485.048 χ^2/NDF : 21.8/22

Left: -63.533 ± 341.714 χ^2/NDF : 57.7/47

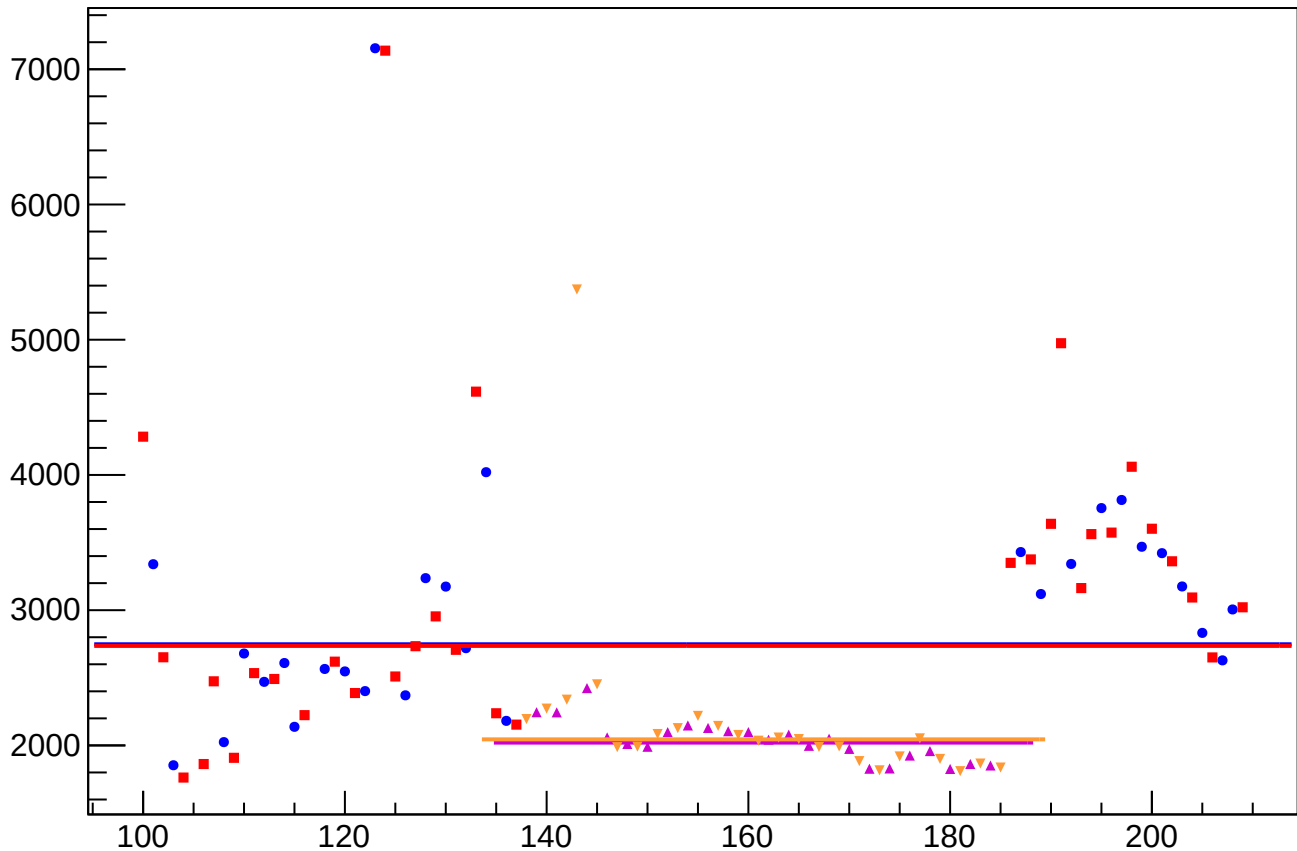
Right: 371.105 ± 515.881 χ^2/NDF : 58.9/59

In: 256.936 ± 406.178 χ^2/NDF : 56.8/50

Out: -112.942 ± 399.676 χ^2/NDF : 59.9/56

All: 69.013 ± 284.885 χ^2/NDF : 117.1/107

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2747.846 $\pm$ 0.525 χ^2 /NDF: 1173476.3/27

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2735.883 $\pm$ 0.507 χ^2 /NDF: 1727266.9/31

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

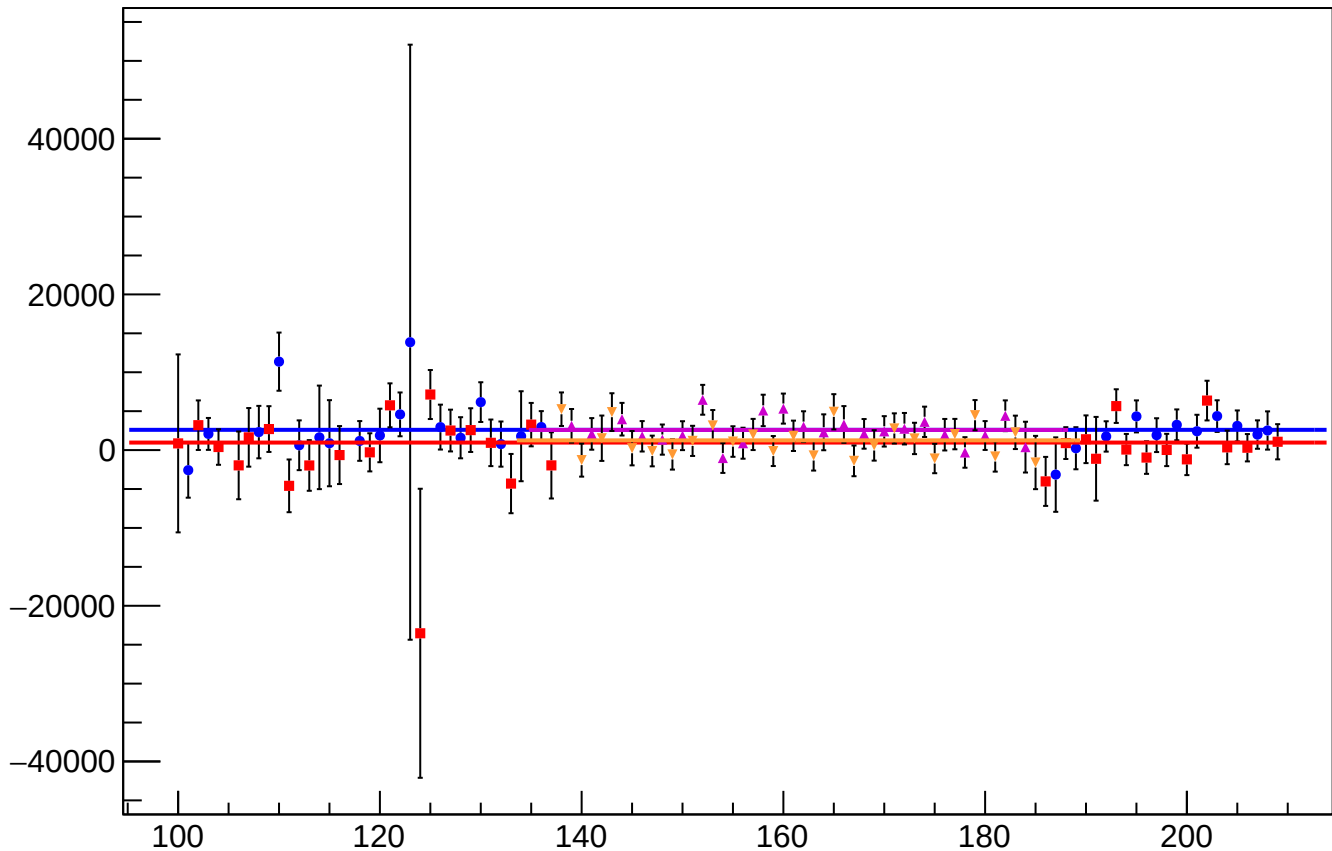
Right: 2741.648 $\pm$ 0.365 χ^2 /NDF: 2901011.8/59

In: 2238.018 $\pm$ 0.287 χ^2 /NDF: 2689477.2/50

Out: 2259.642 $\pm$ 0.283 χ^2 /NDF: 3797465.7/56

All: 2249.004 $\pm$ 0.201 χ^2 /NDF: 6489823.0/100

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2603.128 $\pm$ 491.889 χ^2 /NDF: 16.0/27

Left Out: 1249.917 $\pm$ 412.486 χ^2 /NDF:23.0/24

Right Out: 966.491 $\pm$ 479.172 χ^2 /NDF: 32.0/31

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

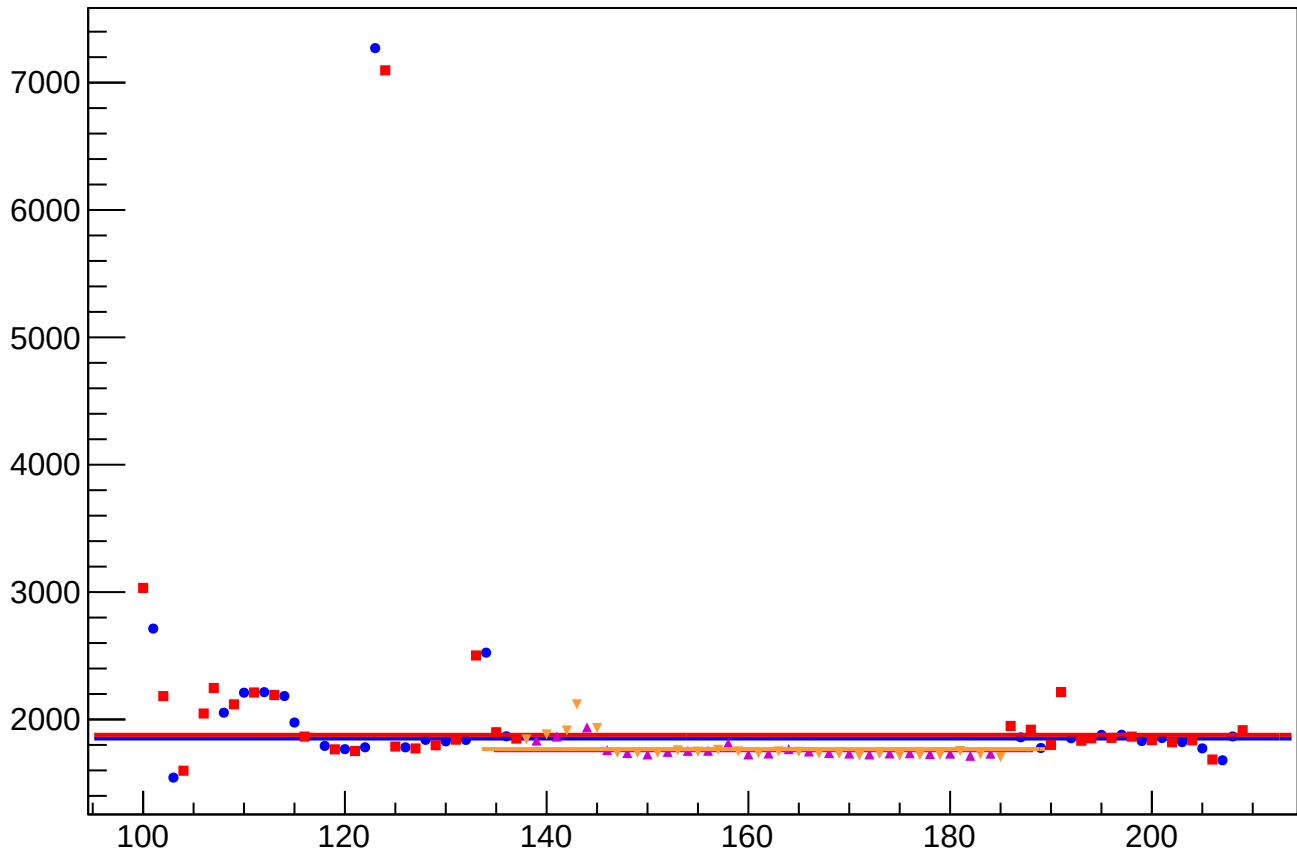
Right: 1763.379 $\pm$ 343.234 χ^2 /NDF: 53.7/59

In: 2593.793 $\pm$ 320.069 χ^2 /NDF:33.4/50

Out: 1129.283 $\pm$ 312.612 χ^2 /NDF:55.2/56

All: 1844.278 $\pm$ 223.640 χ^2 /NDF: 99.4/107

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1850.417+/-0.348 χ^2/NDF : 317587.8/27

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1879.523+/-0.339 χ^2/NDF : 409606.6/31

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

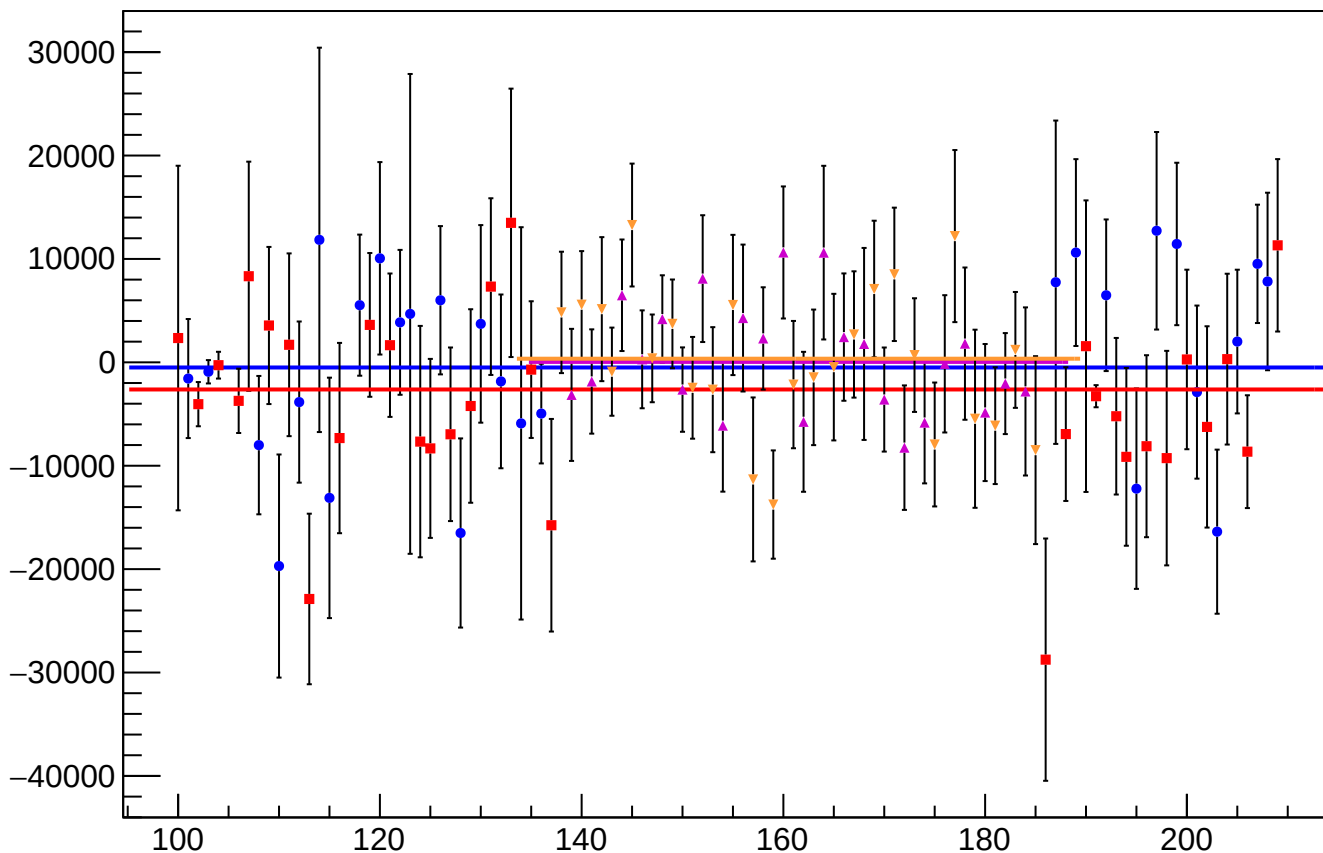
Right: 1865.360+/-0.243 χ^2/NDF : 730789.7/59

In: 1797.173+/-0.226 χ^2/NDF : 388033.7/50

Out: 1815.226+/-0.221 χ^2/NDF : 550094.9/56

All: 1806.415+/-0.158 χ^2/NDF : 941385.5/107

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -497.641 ± 913.683 χ^2/NDF : 30.6/27

Left Out: 351.227 ± 1170.051 χ^2/NDF : 27.8/24

Right Out: -2624.405 ± 677.908 χ^2/NDF : 30.6/31

Left In: 40.618 ± 1207.491 χ^2/NDF : 16.0/22

Left: 200.813 ± 840.276 χ^2/NDF : 43.9/47

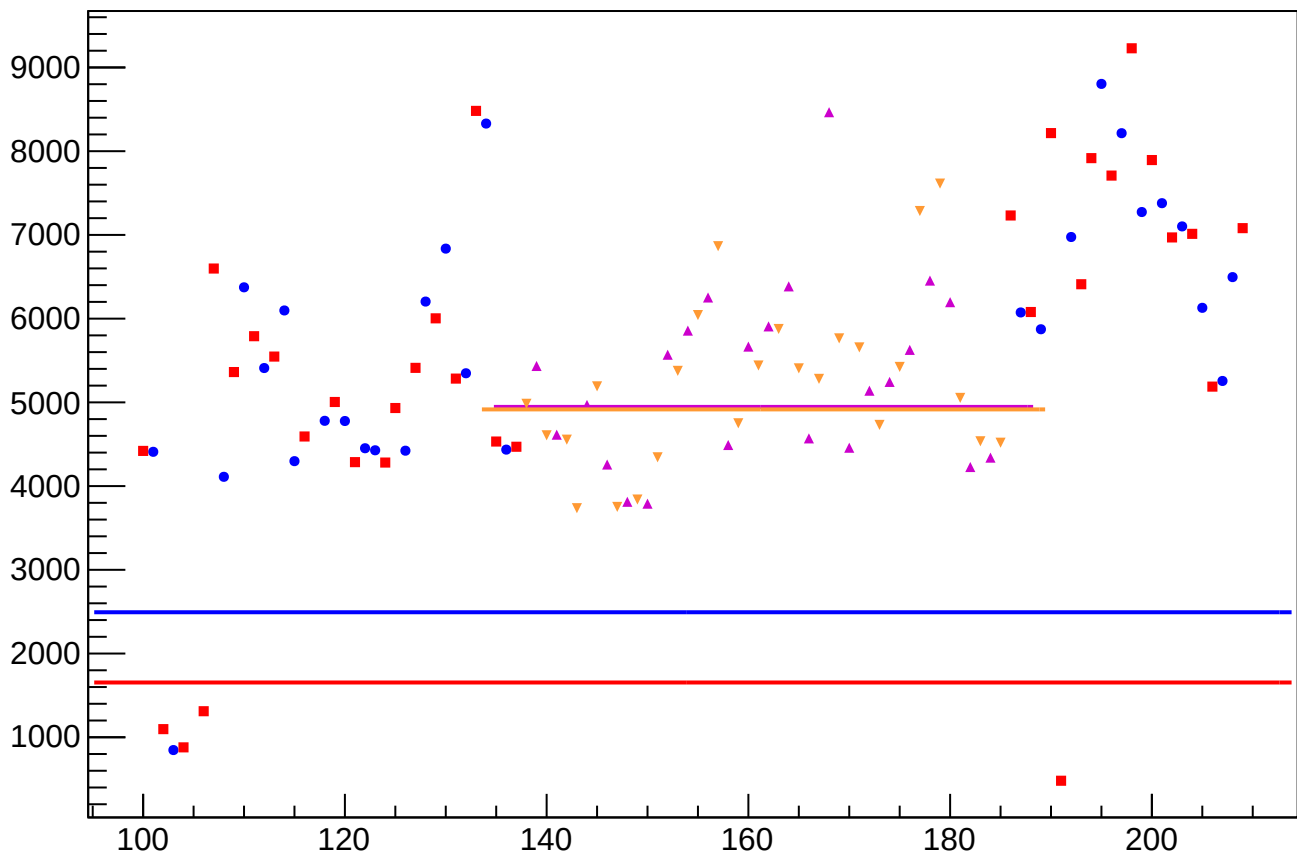
Right: -1869.312 ± 544.423 χ^2/NDF : 64.7/59

In: -301.663 ± 728.604 χ^2/NDF : 46.7/50

Out: -1876.568 ± 586.569 χ^2/NDF : 63.3/56

All: -1257.240 ± 456.904 χ^2/NDF : 112.8/107

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2493.153+/-0.646

χ^2/NDF : 13642656.3/27

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 1952.050+/-0.385

χ^2/NDF : 33297269.3/59

Right Out: 1654.177+/-0.479

χ^2/NDF : 18567014.6/31

In: 3386.157+/-0.515

χ^2/NDF : 20078173.6/50

Out: 2473.906+/-0.415

χ^2/NDF : 31389418.2/56

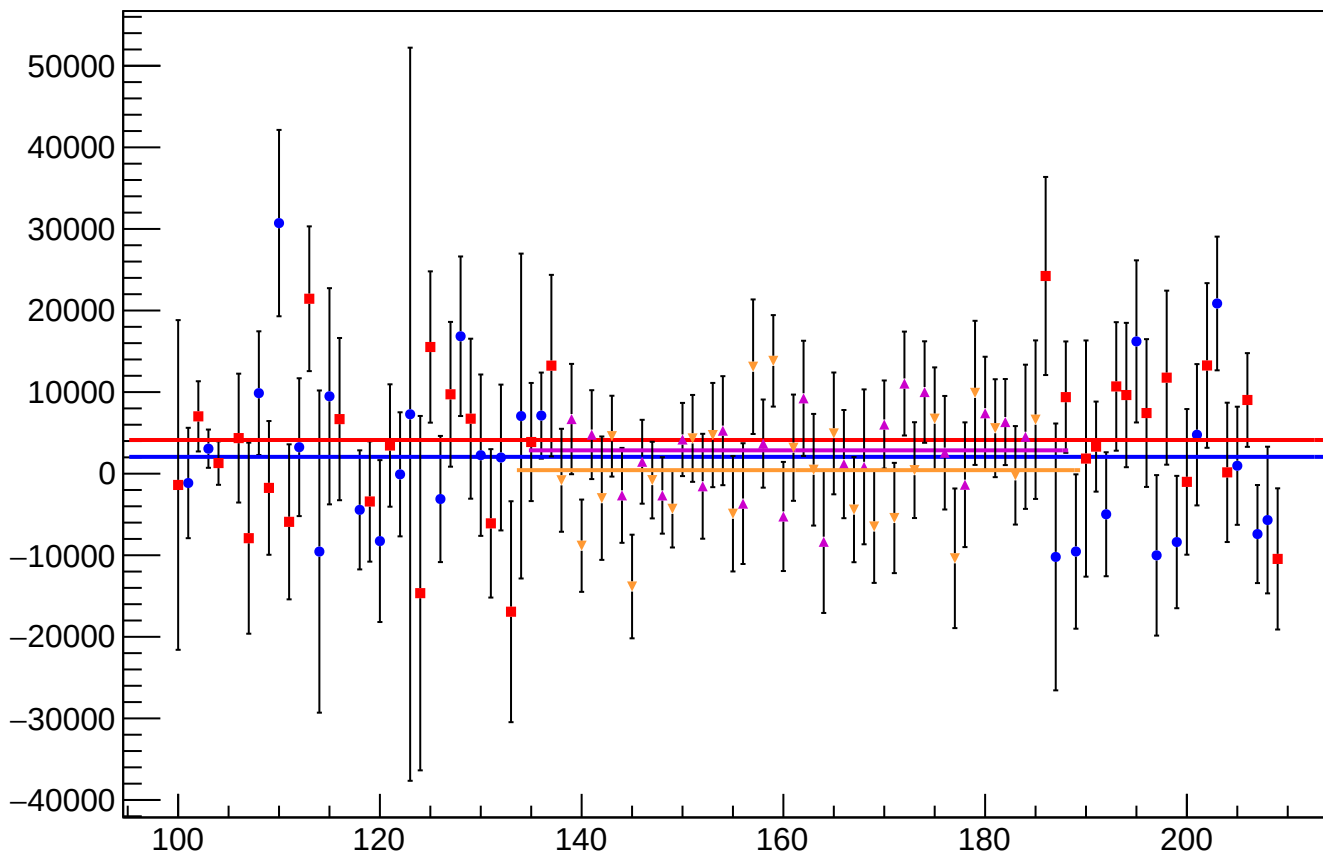
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2832.646+/-0.323

χ^2/NDF : 53369925.4/1

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2060.051+/-1359.121 χ^2/NDF : 30.8/27

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 4128.466+/-1310.624 χ^2/NDF : 26.4/31

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

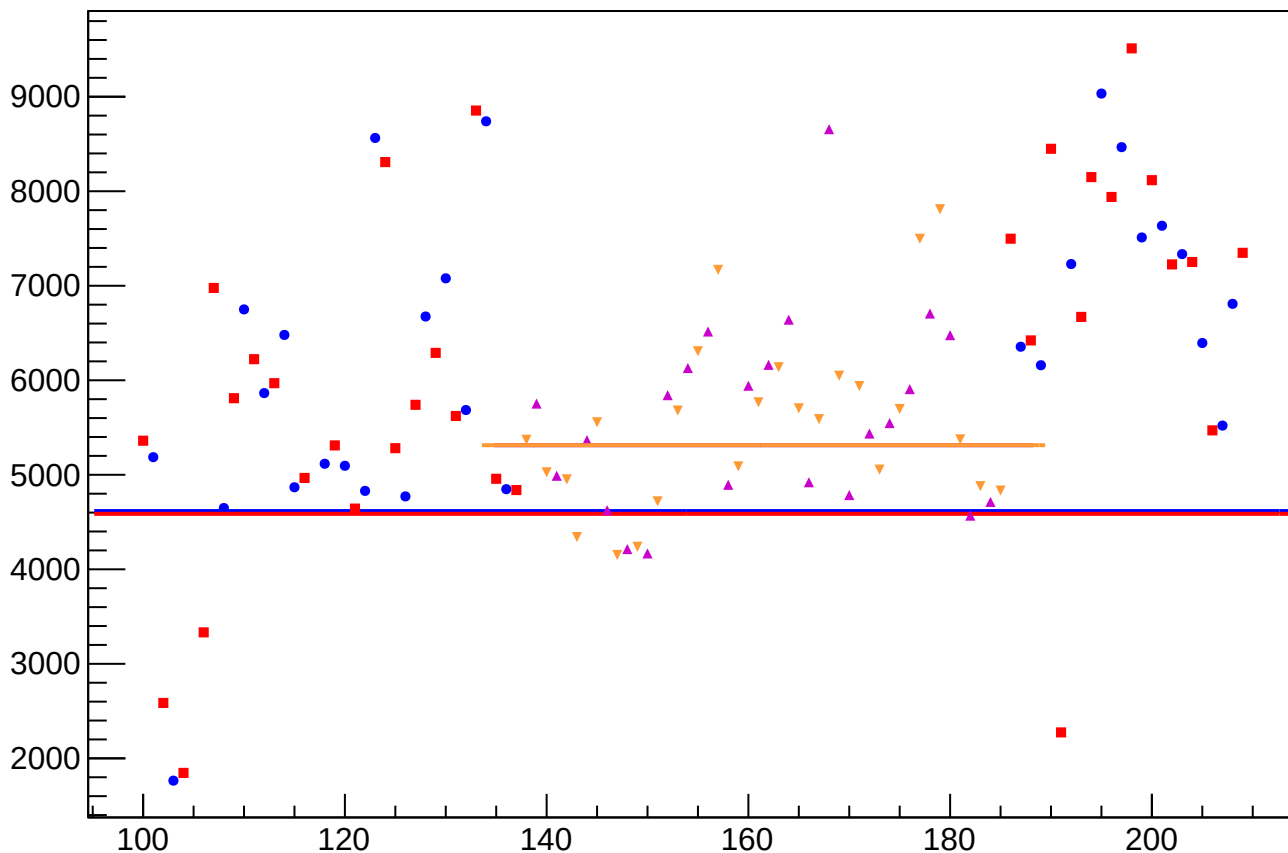
Right: 3131.820+/-943.431 χ^2/NDF : 58.4/59

In: 2480.297+/-936.537 χ^2/NDF : 43.9/50

Out: 2204.342+/-907.677 χ^2/NDF : 57.7/56

All: 2338.002+/-651.789 χ^2/NDF : 101.6/107

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4616.173+/-0.961 χ^2/NDF : 5483945.3/27

Left Out: 5313.008+/-0.890 χ^2/NDF : 894369.8/24

Right Out: 4586.999+/-0.923 χ^2/NDF : 6078088.8/31

Left In: 5312.861+/-0.914 χ^2/NDF : 957400.7/22

Left: 5312.937+/-0.637 χ^2/NDF : 1851770.5/47

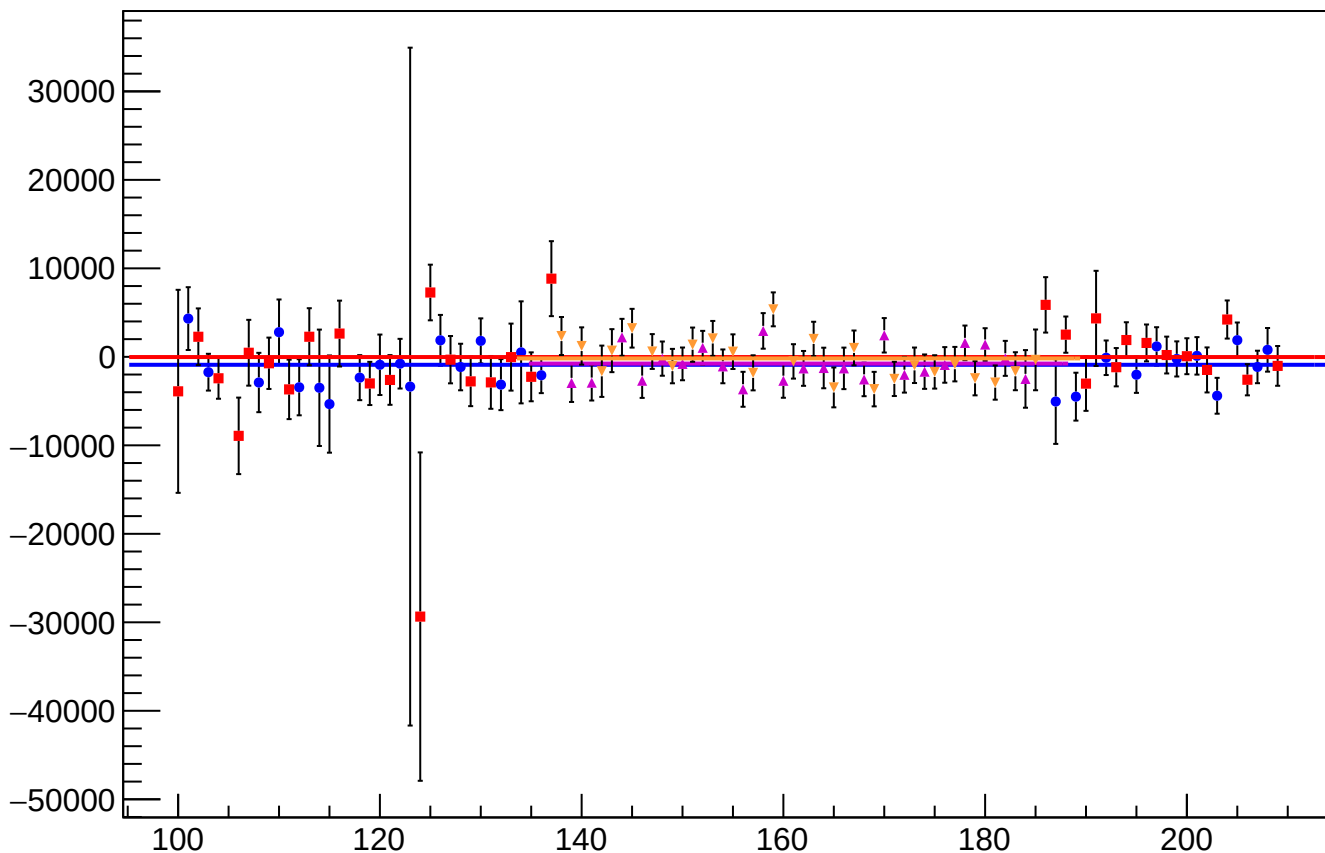
Right: 4600.991+/-0.666 χ^2/NDF : 11562513.7/59

In: 4982.056+/-0.662 χ^2/NDF : 6717336.6/50

Out: 4963.180+/-0.640 χ^2/NDF : 7293290.0/56

All: 4972.303+/-0.460 χ^2/NDF : 14011046.4/111

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -898.533+/-491.591 χ^2/NDF : 18.2/27

Left Out: -179.794+/-410.976 χ^2/NDF : 29.3/24

Right Out: -23.227+/-478.749 χ^2/NDF : 40.4/31

Left In: -759.753+/-419.905 χ^2/NDF : 20.3/22

Left: -463.542+/-293.710 χ^2/NDF : 50.5/47

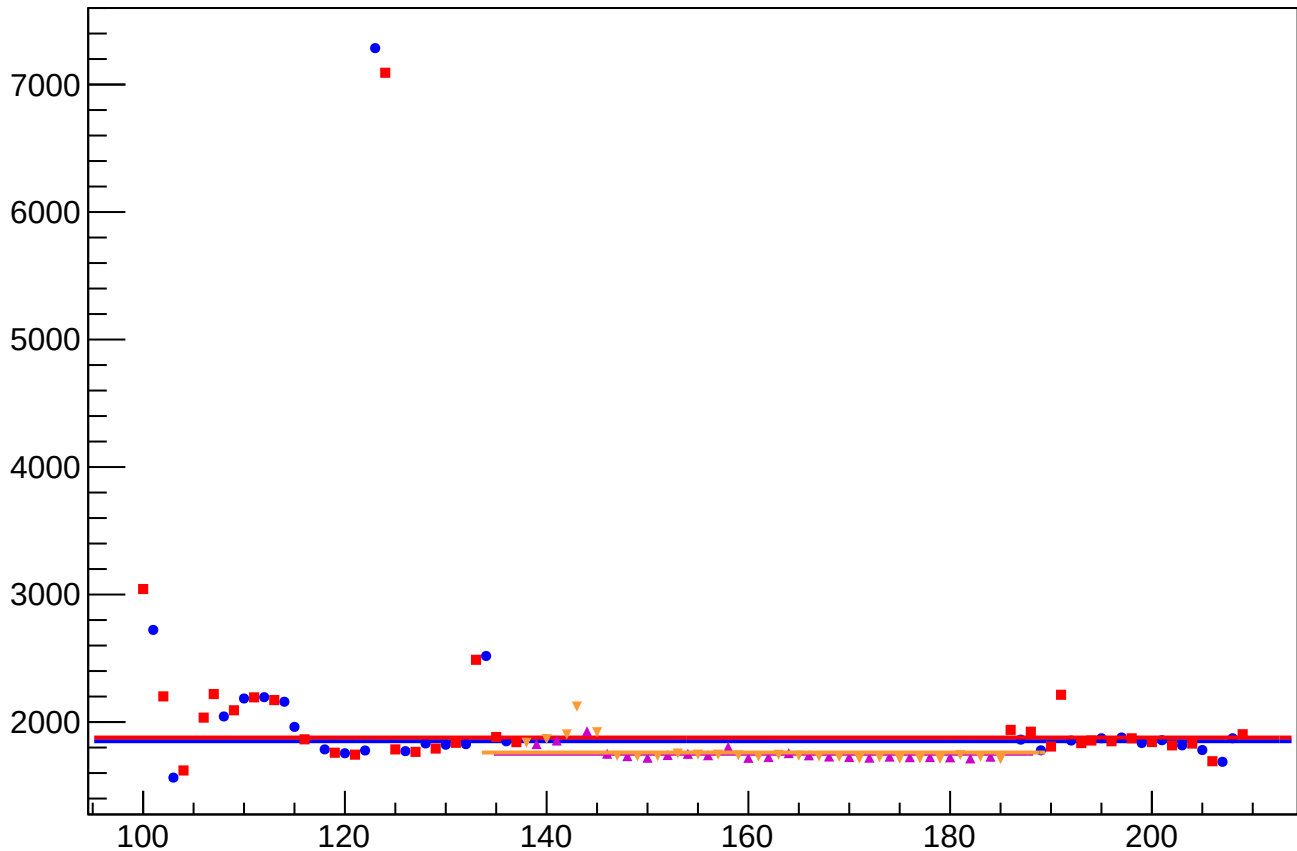
Right: -449.298+/-342.977 χ^2/NDF : 60.2/59

In: -818.296+/-319.283 χ^2/NDF : 38.5/50

Out: -113.368+/-311.837 χ^2/NDF : 69.7/56

All: -457.516+/-223.088 χ^2/NDF : 110.7/107

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1849.743 $\pm$ 0.348 χ^2 /NDF: 304981.6/27

Left Out: 1761.091 $\pm$ 0.291 χ^2 /NDF:77468.5/24

Right Out: 1878.544 $\pm$ 0.338 χ^2 /NDF: 394635.9/31

Left In: 1751.418 $\pm$ 0.297 χ^2 /NDF:28578.7/22

Left: 1756.358 $\pm$ 0.208 χ^2 /NDF: 106589.3/47

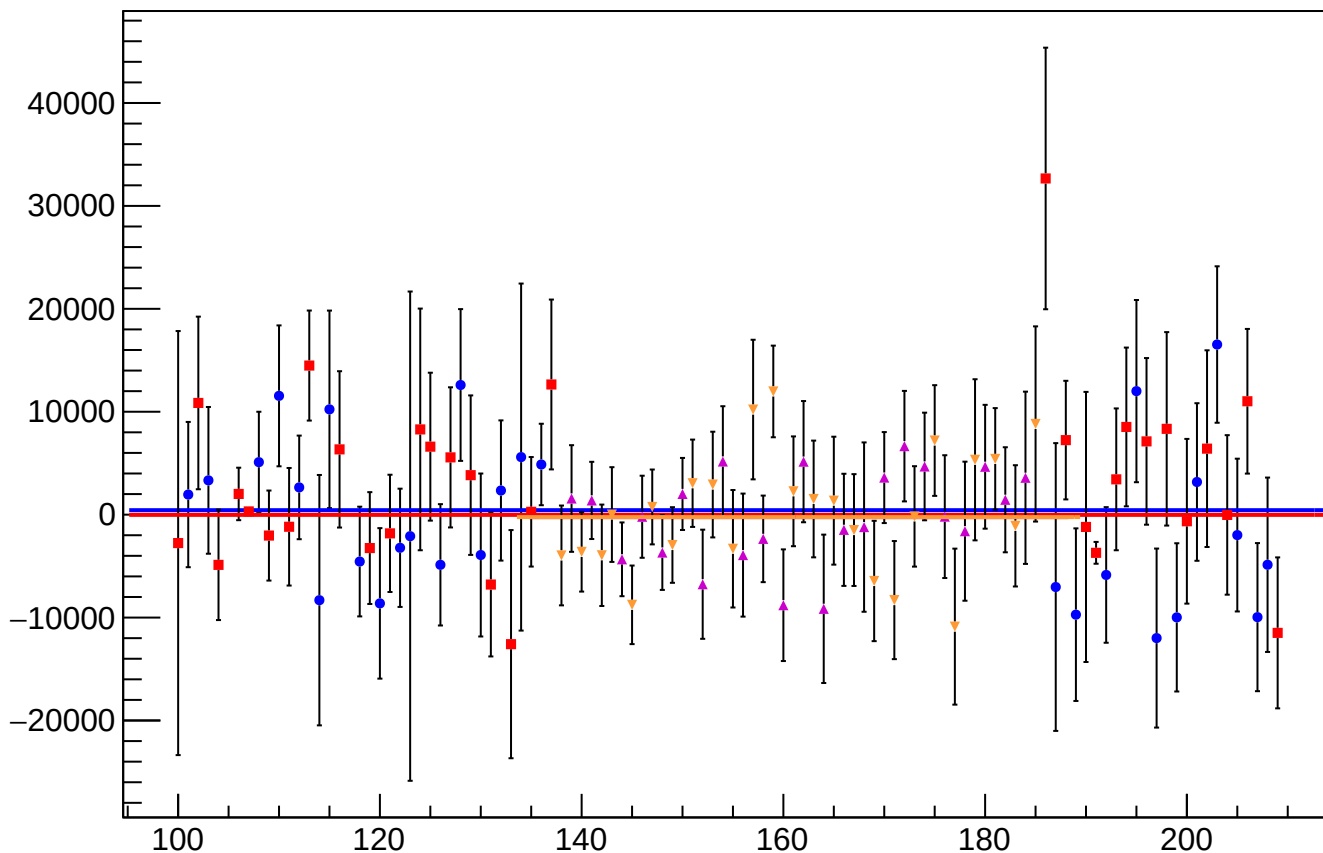
Right: 1864.534 $\pm$ 0.242 χ^2 /NDF: 703142.9/59

In: 1792.895 $\pm$ 0.226 χ^2 /NDF:379820.4/50

Out: 1810.960 $\pm$ 0.220 χ^2 /NDF:541461.7/56

All: 1802.143 $\pm$ 0.158 χ^2 /NDF: 924559.7/107

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 434.573+/-1323.024 χ^2/NDF : 29.3/27

Left Out: -235.806+/-1005.144 χ^2/NDF : 28.9/24

Right Out: -20.179+/-410.455 χ^2/NDF : 48.0/31

Left In: -239.224+/-1028.883 χ^2/NDF : 15.3/22

Left: -237.475+/-718.990 χ^2/NDF : 44.2/47

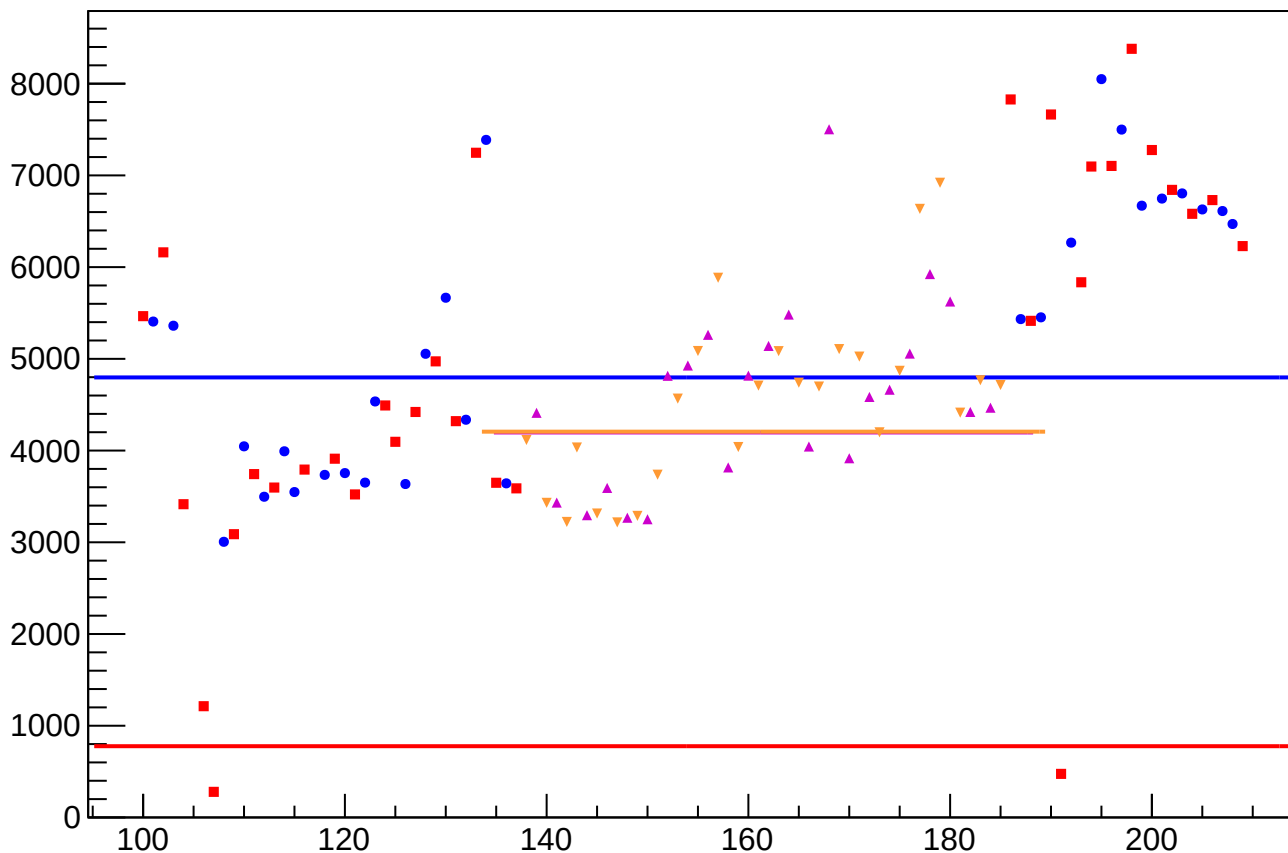
Right: 19.747+/-392.022 χ^2/NDF : 77.4/59

In: 14.705+/-812.191 χ^2/NDF : 44.8/50

Out: -50.997+/-379.993 χ^2/NDF : 76.9/56

All: -39.198+/-344.186 χ^2/NDF : 121.7/107

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4797.426 $\pm$ 0.936

χ^2 /NDF: 2336672.0/27

Left: 4201.775 $\pm$ 0.508

χ^2 /NDF: 2913357.2/47

Left Out: 4206.076 $\pm$ 0.711

χ^2 /NDF: 1442269.3/24

Right: 1129.837 $\pm$ 0.277

χ^2 /NDF: 43049117.8/59

Right Out: 776.836 $\pm$ 0.290

χ^2 /NDF: 23863794.5/31

In: 4423.444 $\pm$ 0.574

χ^2 /NDF: 4064139.8/50

Out: 1266.945 $\pm$ 0.269

χ^2 /NDF: 45258252.2/56

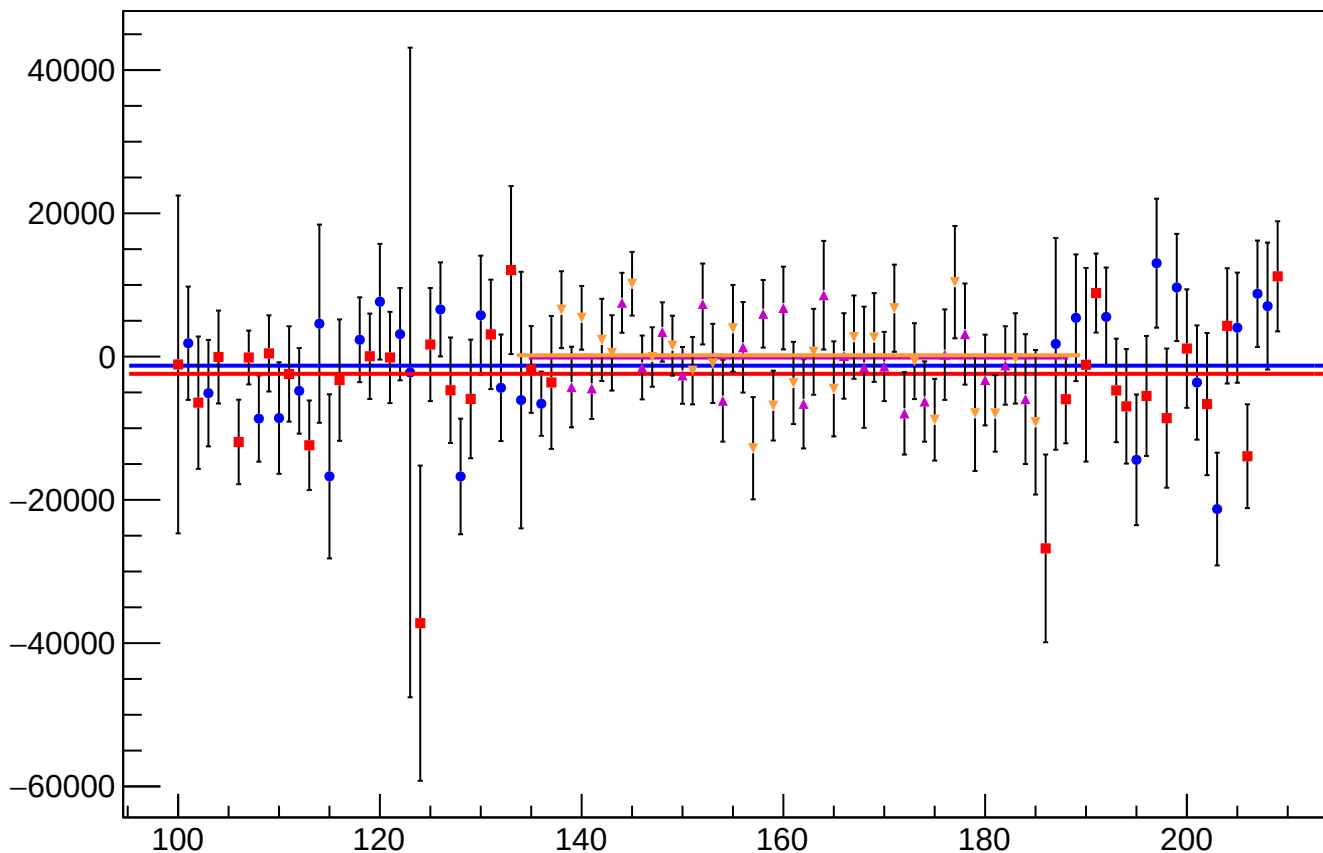
Left In: 4197.267 $\pm$ 0.728

χ^2 /NDF: 1471012.9/22

All: 1833.803 $\pm$ 0.243

χ^2 /NDF: 74105644.7/13

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1265.601+/-1455.600 χ^2/NDF : 32.8/27

Left Out: 189.721+/-1106.851 χ^2/NDF : 25.0/24

Right Out: -2405.871+/-1282.526 χ^2/NDF : 27.2/31

Left In: -137.477+/-1129.656 χ^2/NDF : 18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

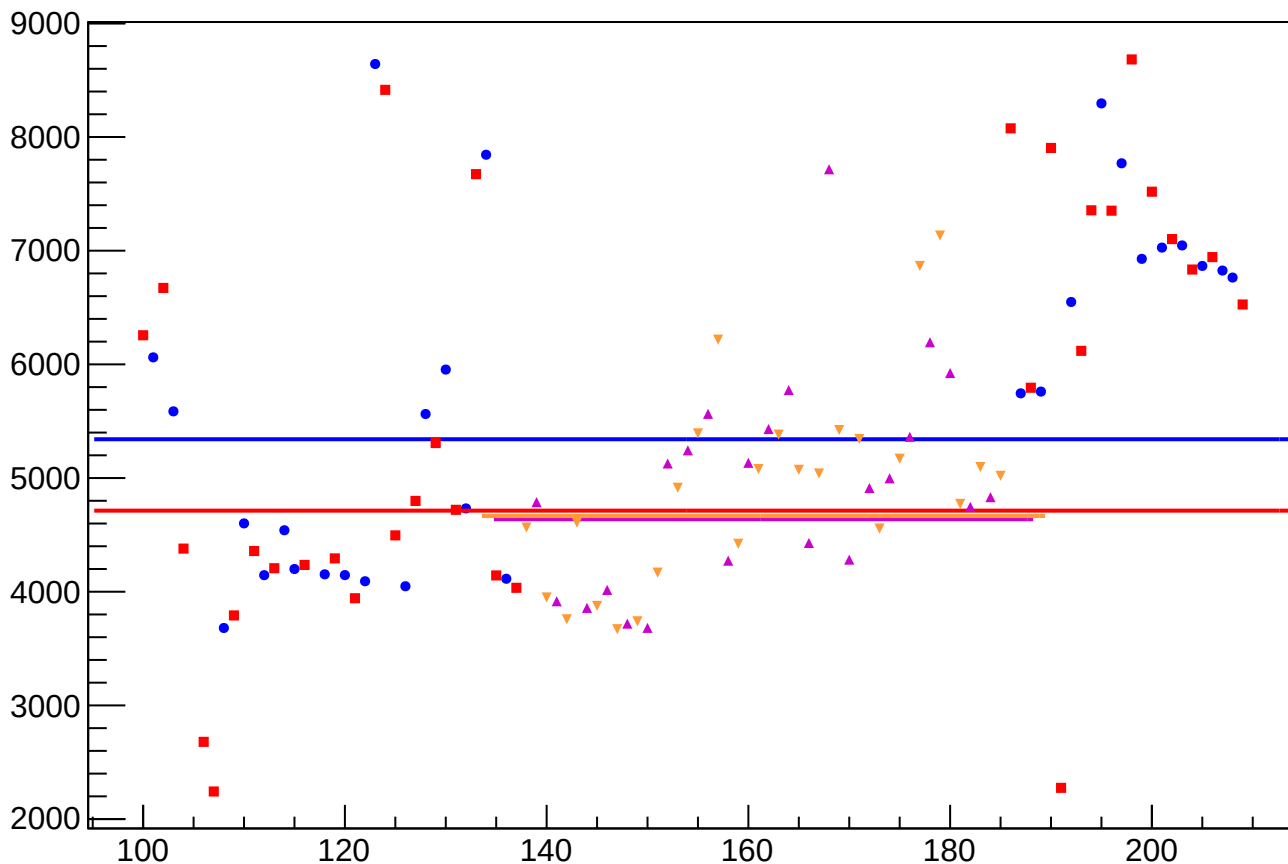
Right: -1907.524+/-962.286 χ^2/NDF : 60.3/59

In: -561.533+/-892.432 χ^2/NDF : 51.7/50

Out: -918.265+/-837.944 χ^2/NDF : 54.5/56

All: -751.121+/-610.871 χ^2/NDF : 106.4/107

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5341.341+/-1.029

χ^2/NDF : 1704790.3/27

Left: 4651.983+/-0.559 χ^2/NDF : 2083072.1/47

Right: 4986.466+/-0.679 χ^2/NDF : 5821118.6/59

Left Out: 4665.620+/-0.783

χ^2/NDF : 1017235.0/24

In: 4902.243+/-0.631 χ^2/NDF : 3061623.0/50

Right Out: 4713.301+/-0.903

χ^2/NDF : 3905945.8/31

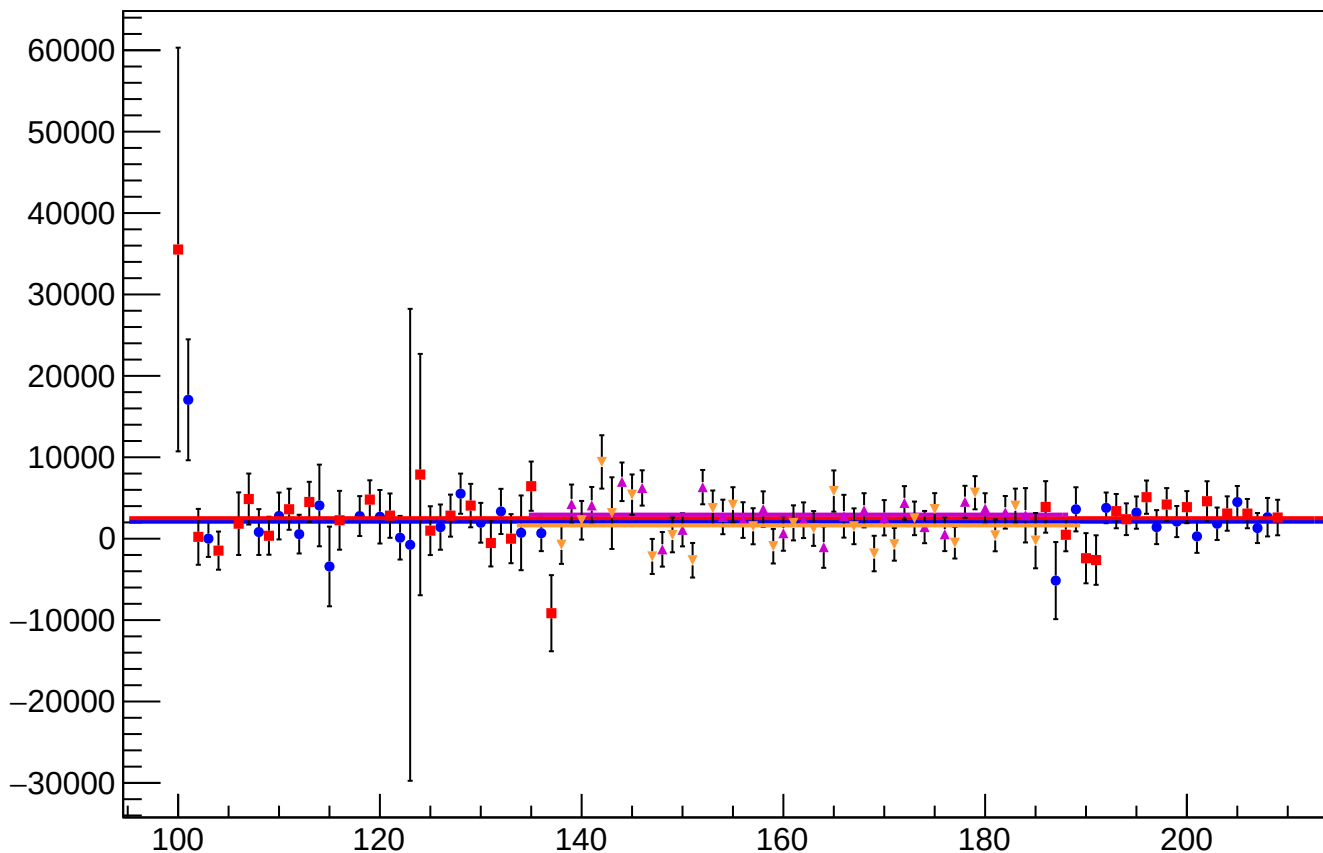
Out: 4686.073+/-0.591 χ^2/NDF : 4924772.9/56

Left In: 4637.777+/-0.799

χ^2/NDF : 1065217.2/22

All: 4787.162+/-0.432 χ^2/NDF : 8048867.3/10

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2088.339+/-476.127 χ^2/NDF : 16.8/27

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2518.597+/-455.413 χ^2/NDF : 29.3/31

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

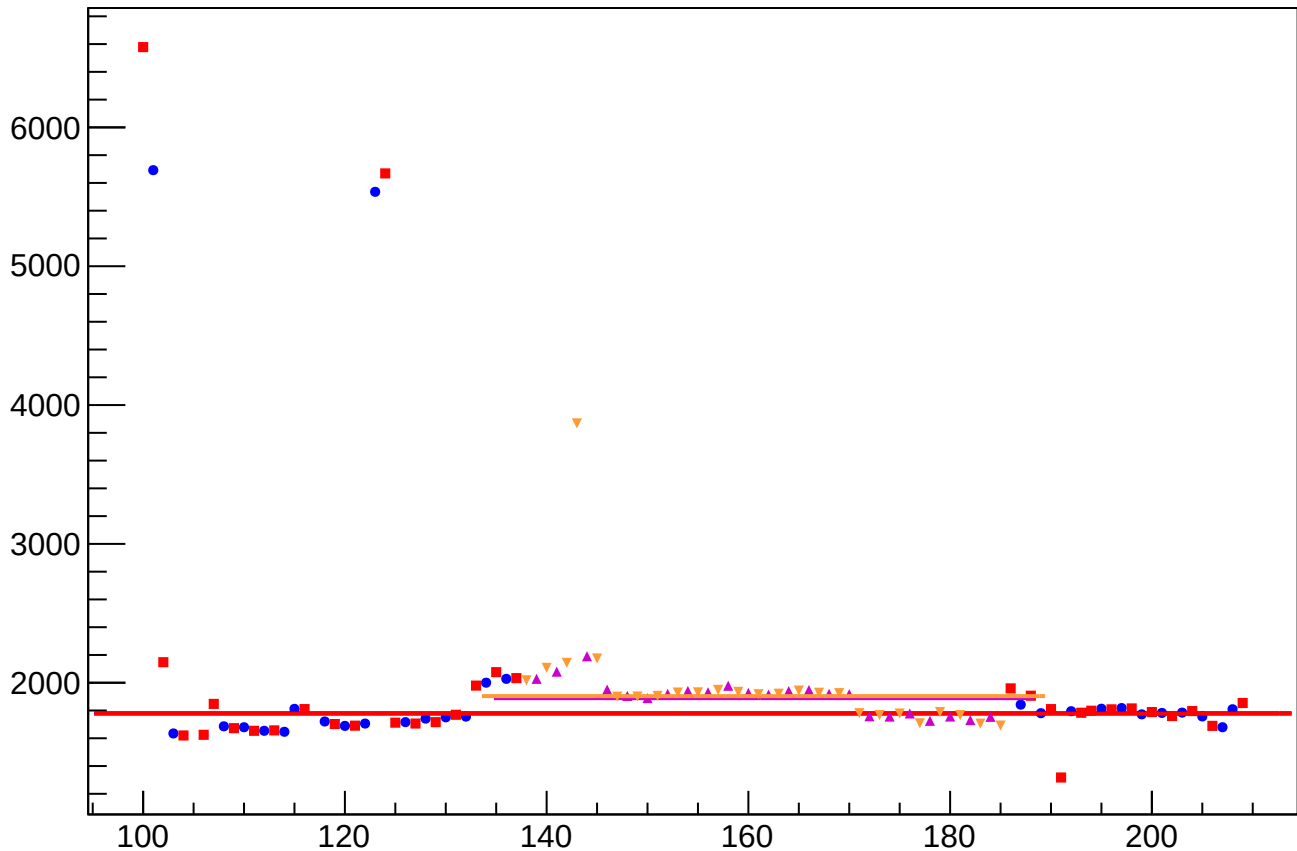
Right: 2313.031+/-329.105 χ^2/NDF : 46.5/59

In: 2544.470+/-328.452 χ^2/NDF : 39.0/50

Out: 2066.095+/-319.033 χ^2/NDF : 66.6/56

All: 2298.325+/-228.848 χ^2/NDF : 106.7/107

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1780.095+/-0.337 χ^2/NDF : 652892.9/27

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1777.190+/-0.321 χ^2/NDF : 376137.1/31

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

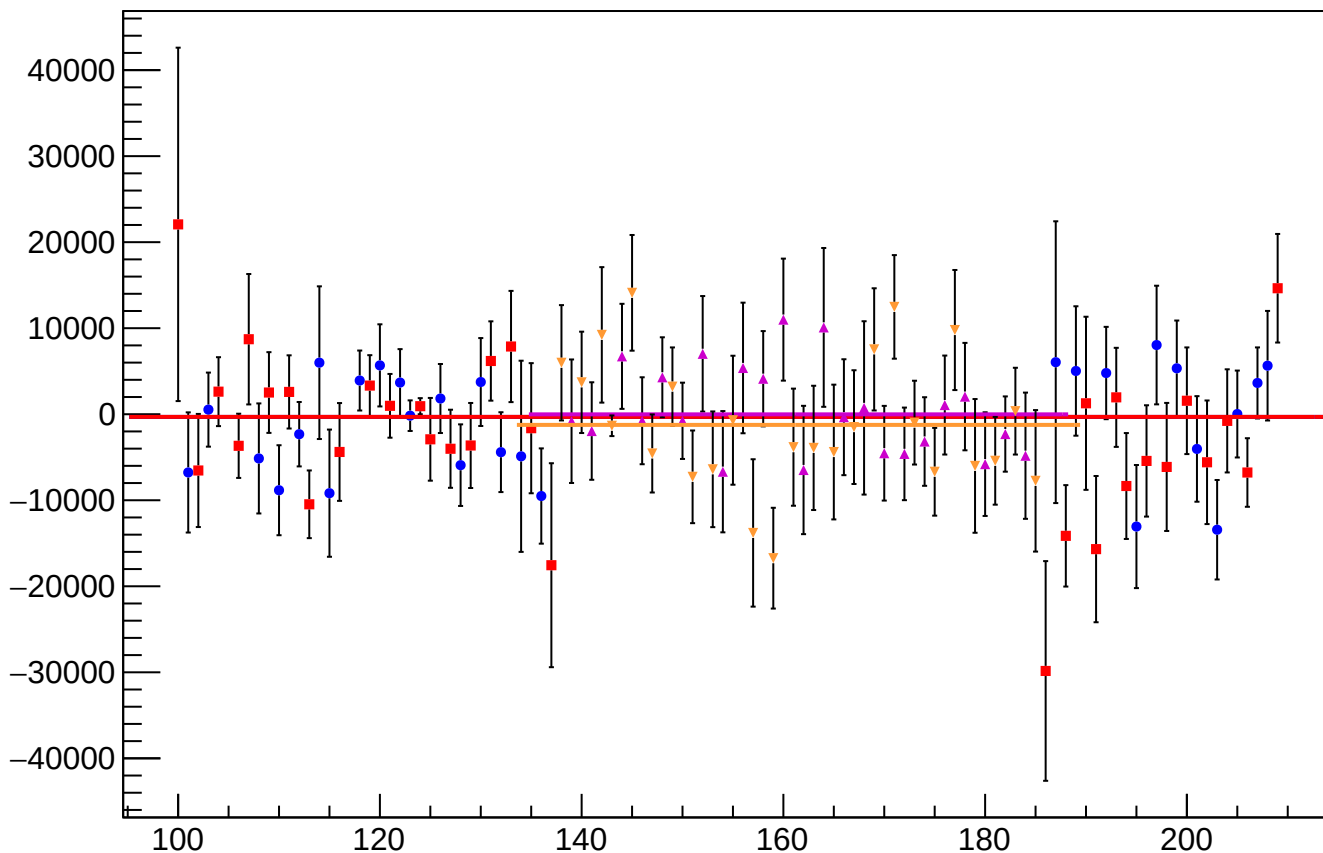
Right: 1778.573+/-0.232 χ^2/NDF : 1029069.0/59

In: 1837.136+/-0.232 χ^2/NDF : 834077.7/50

Out: 1841.380+/-0.225 χ^2/NDF : 996452.1/56

All: 1839.323+/-0.162 χ^2/NDF : 1830701.9/10

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -315.109 ± 881.661 χ^2/NDF : 31.0/27

Left Out: -1239.833 ± 865.201 χ^2/NDF : 33.9/24

Right Out: -308.323 ± 671.718 χ^2/NDF : 49.1/31

Left In: -15.863 ± 1243.317 χ^2/NDF : 13.2/22

Left: -840.501 ± 710.172 χ^2/NDF : 47.8/47

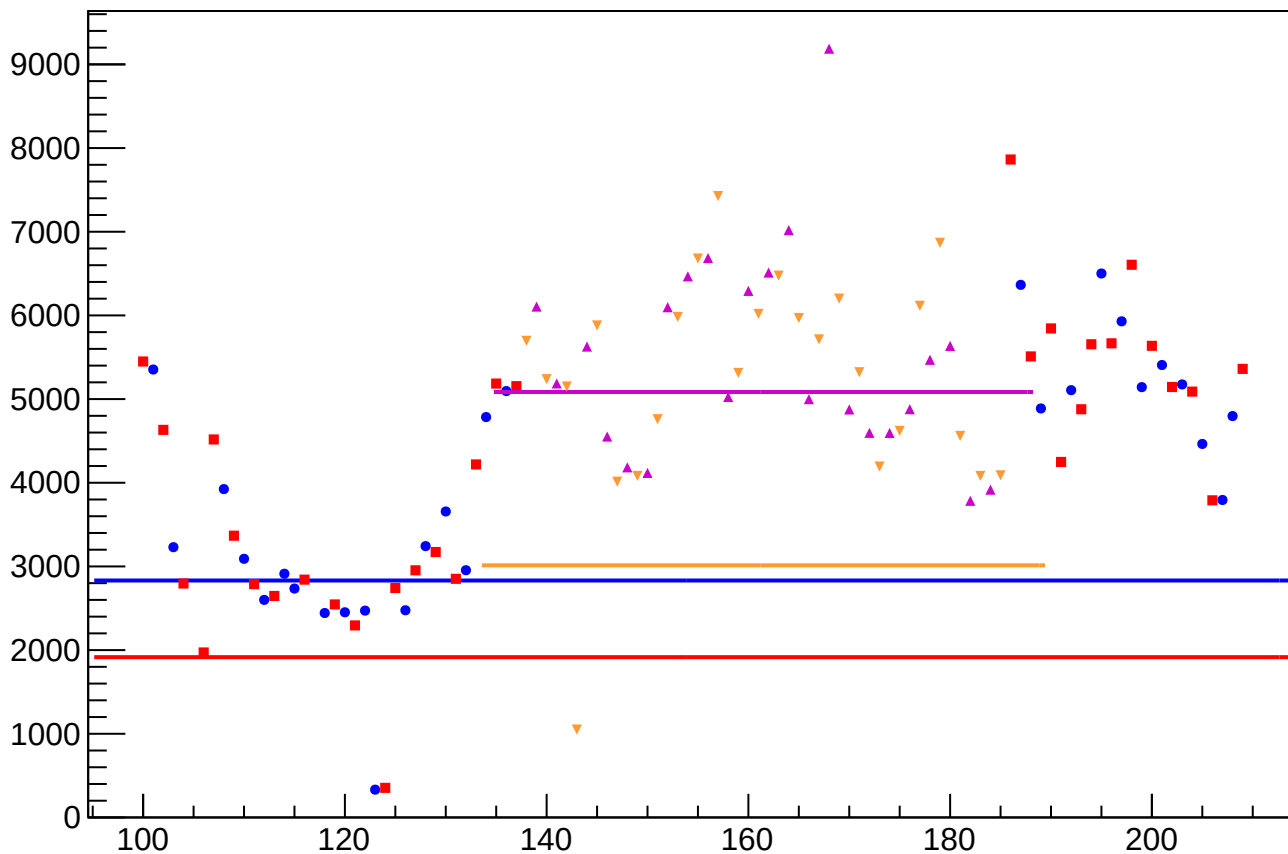
Right: -310.816 ± 534.313 χ^2/NDF : 80.1/59

In: -214.982 ± 719.190 χ^2/NDF : 44.3/50

Out: -658.639 ± 530.583 χ^2/NDF : 83.7/56

All: -502.273 ± 426.964 χ^2/NDF : 128.3/107

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2831.860+/-0.623

χ^2/NDF : 7902177.7/27

Left: 3689.075+/-0.502

χ^2/NDF : 17314385.8/47

Left Out: 3013.268+/-0.612

χ^2/NDF : 12270753.9/24

Right: 2252.165+/-0.378

χ^2/NDF : 24305446.0/59

Right Out: 1915.677+/-0.475

χ^2/NDF : 15036773.9/31

In: 3585.637+/-0.509

χ^2/NDF : 13574841.6/50

Out: 2328.452+/-0.375

χ^2/NDF : 29315742.7/56

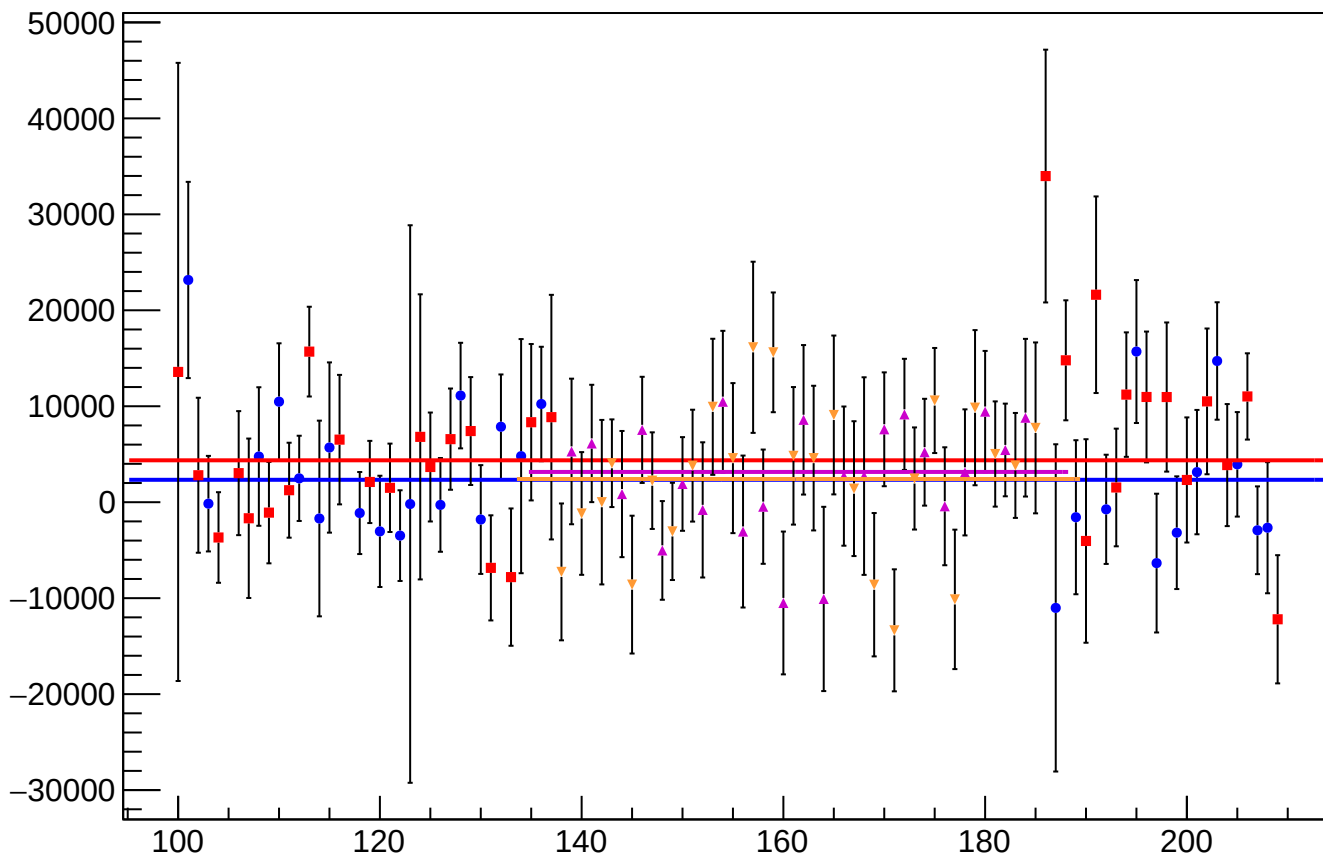
Left In: 5084.645+/-0.879

χ^2/NDF : 1303587.7/22

All: 2771.544+/-0.302

χ^2/NDF : 46848039.5/1

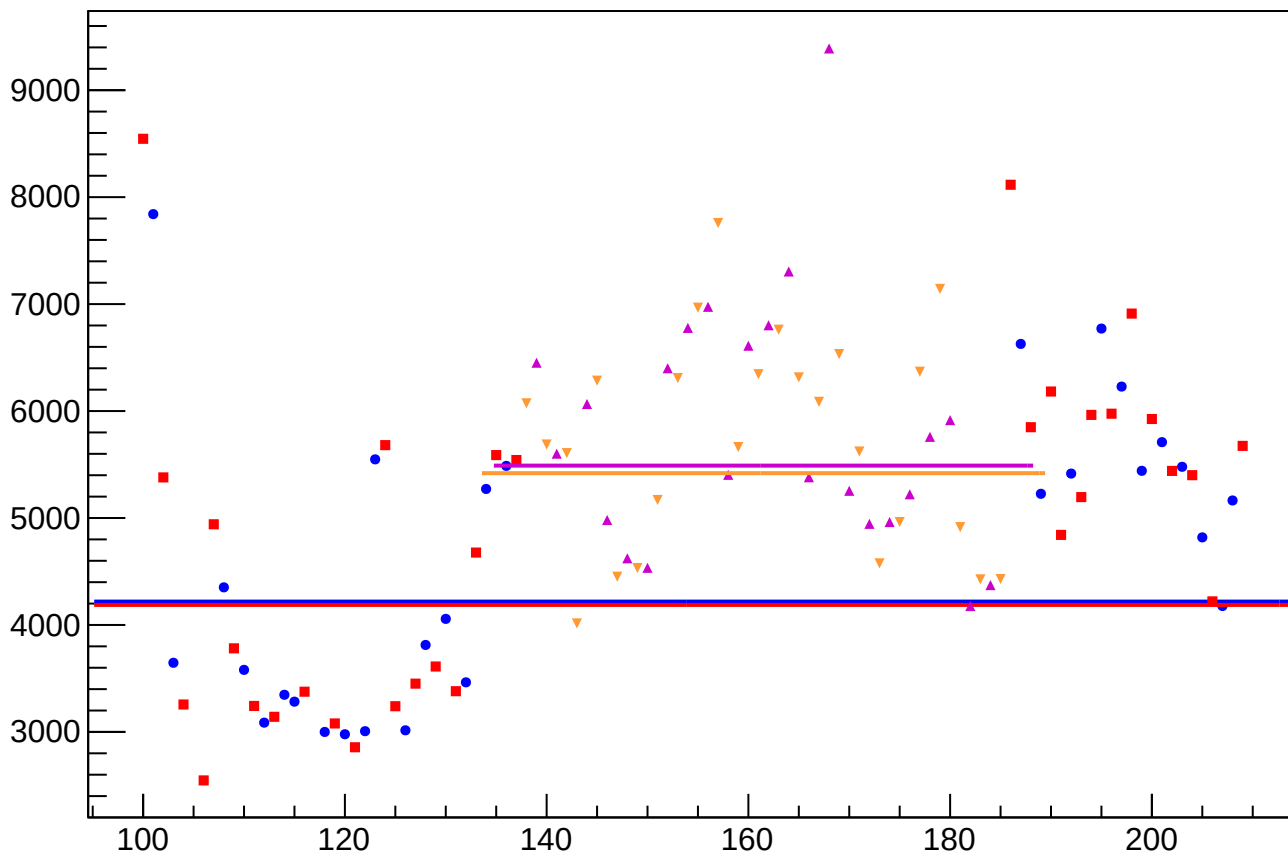
asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2334.826+/-1159.586 χ^2/NDF : 28.6/27
 Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24
 Right Out: 4365.897+/-1119.034 χ^2/NDF : 43.0/31
 Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47
 Right: 3386.496+/-805.231 χ^2/NDF : 73.2/59
 In: 2686.143+/-876.116 χ^2/NDF : 44.3/50
 Out: 3526.547+/-844.314 χ^2/NDF : 74.2/56
 All: 3121.874+/-607.952 χ^2/NDF : 119.0/107

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4218.496+/-0.820

χ^2/NDF : 2024077.8/27

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

Right: 4202.281+/-0.567 χ^2/NDF : 4547781.0/59

Left Out: 5419.305+/-0.910

χ^2/NDF : 1109972.1/24

In: 4764.117+/-0.620 χ^2/NDF : 4120236.7/50

Right Out: 4187.457+/-0.784 χ^2/NDF : 2522954.6/31

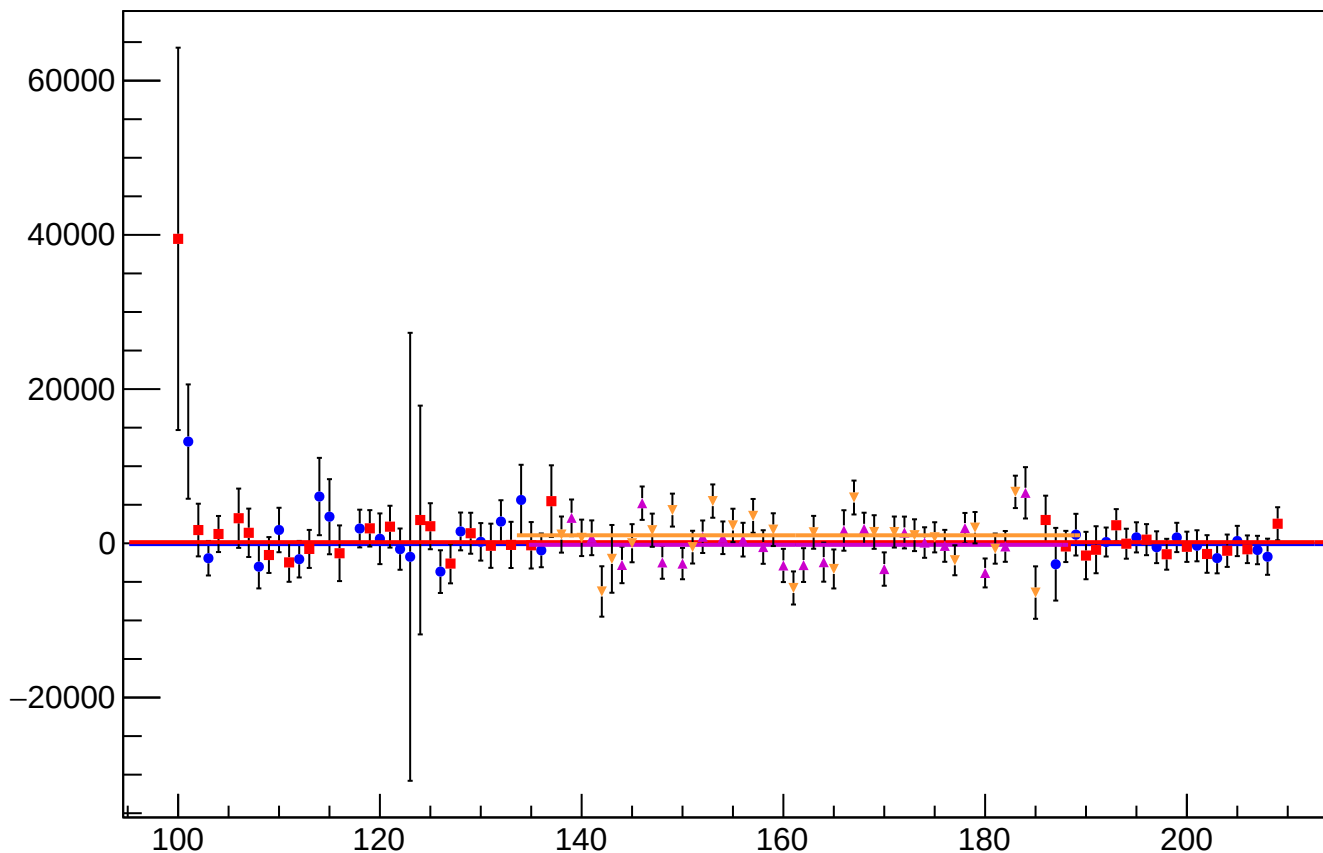
Out: 4712.458+/-0.594 χ^2/NDF : 4685143.4/56

Left In: 5489.885+/-0.946

χ^2/NDF : 1064353.3/22

All: 4737.196+/-0.429 χ^2/NDF : 8809003.8/10

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -103.313 ± 473.779 $\chi^2/\text{NDF}: 16.4/27$

Left Out: 1041.262 ± 446.249 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 150.983 ± 453.130 $\chi^2/\text{NDF}: 15.3/31$

Left In: -191.966 ± 453.055 $\chi^2/\text{NDF}: 30.0/22$

Left: 433.980 ± 317.925 $\chi^2/\text{NDF}: 82.3/47$

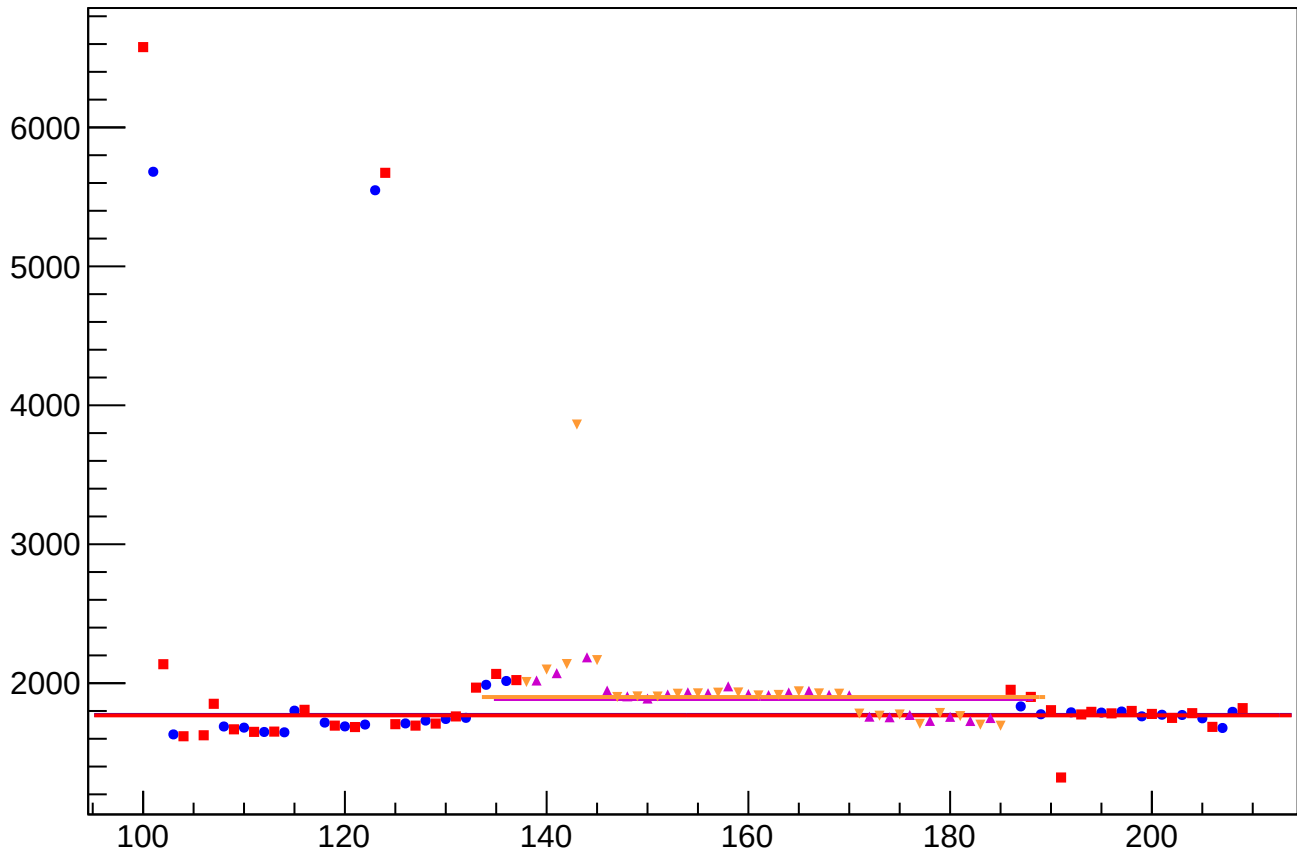
Right: 29.497 ± 327.468 $\chi^2/\text{NDF}: 31.9/59$

In: -149.621 ± 327.440 $\chi^2/\text{NDF}: 46.4/50$

Out: 602.934 ± 317.951 $\chi^2/\text{NDF}: 65.9/56$

All: 237.718 ± 228.106 $\chi^2/\text{NDF}: 115.0/107$

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1771.456+/-0.335 χ^2/NDF : 649863.6/27

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1768.553+/-0.319 χ^2/NDF : 371027.5/31

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

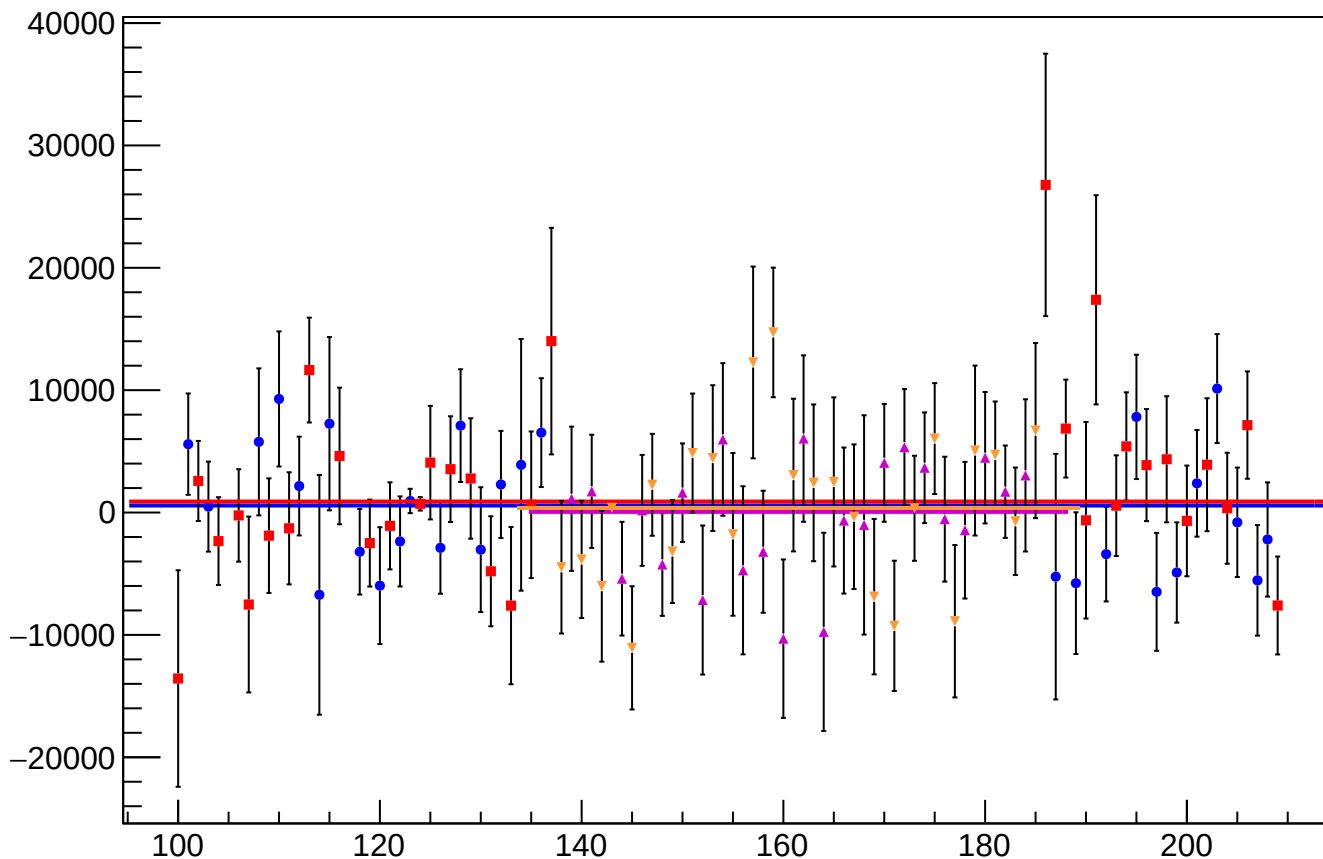
Right: 1769.935+/-0.231 χ^2/NDF : 1020930.5/59

In: 1831.485+/-0.232 χ^2/NDF : 834851.4/50

Out: 1835.232+/-0.224 χ^2/NDF : 995005.2/56

All: 1833.417+/-0.161 χ^2/NDF : 1829991.7/10

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 573.207 $\pm$ 665.465 χ^2 /NDF: 31.1/27

Left Out: 373.277 $\pm$ 382.071 χ^2 /NDF:30.8/24

Right Out: 899.603 $\pm$ 459.498 χ^2 /NDF: 40.9/31

Left In: 53.099 $\pm$ 1089.888 χ^2 /NDF:14.5/22

Left: 338.236 $\pm$ 360.558 χ^2 /NDF: 45.4/47

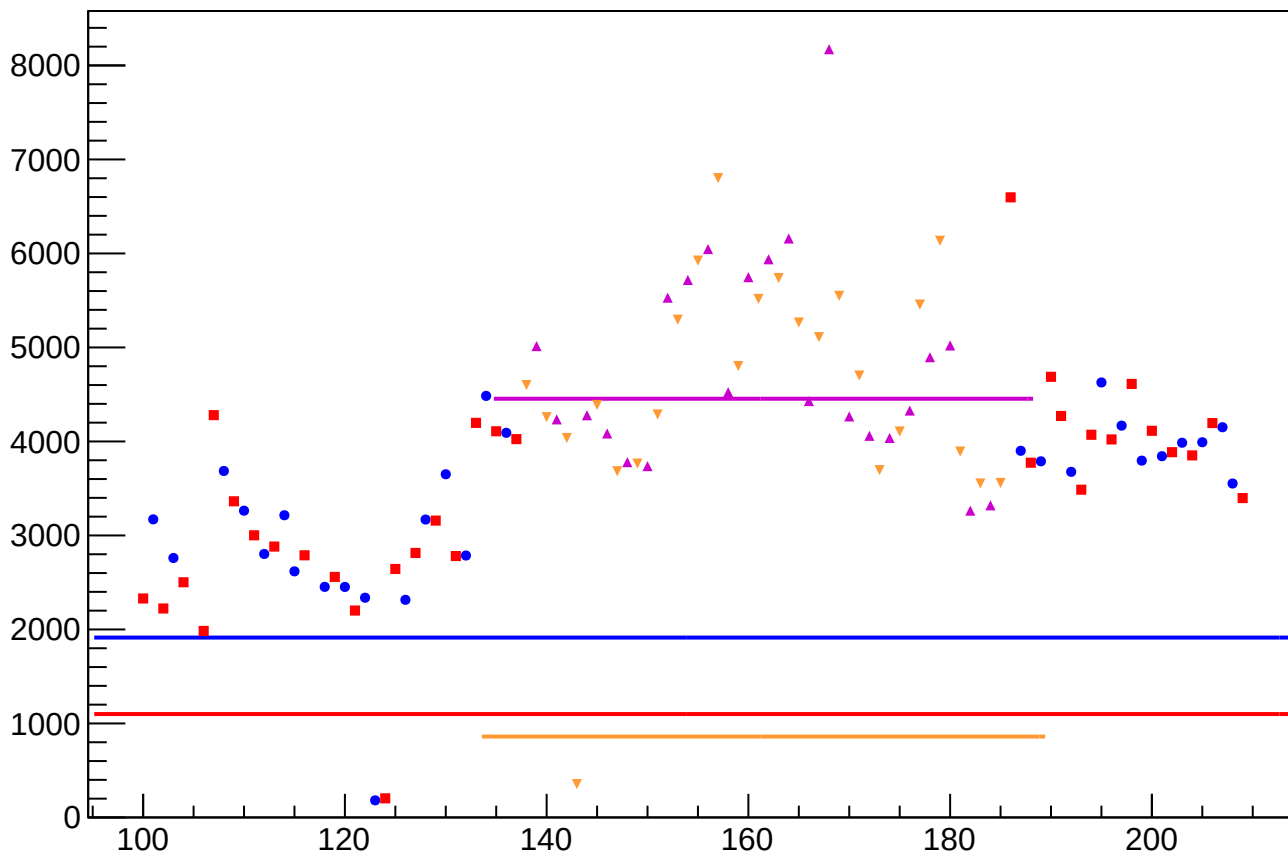
Right: 794.226 $\pm$ 378.117 χ^2 /NDF: 72.2/59

In: 431.963 $\pm$ 567.963 χ^2 /NDF:45.9/50

Out: 588.423 $\pm$ 293.781 χ^2 /NDF:72.5/56

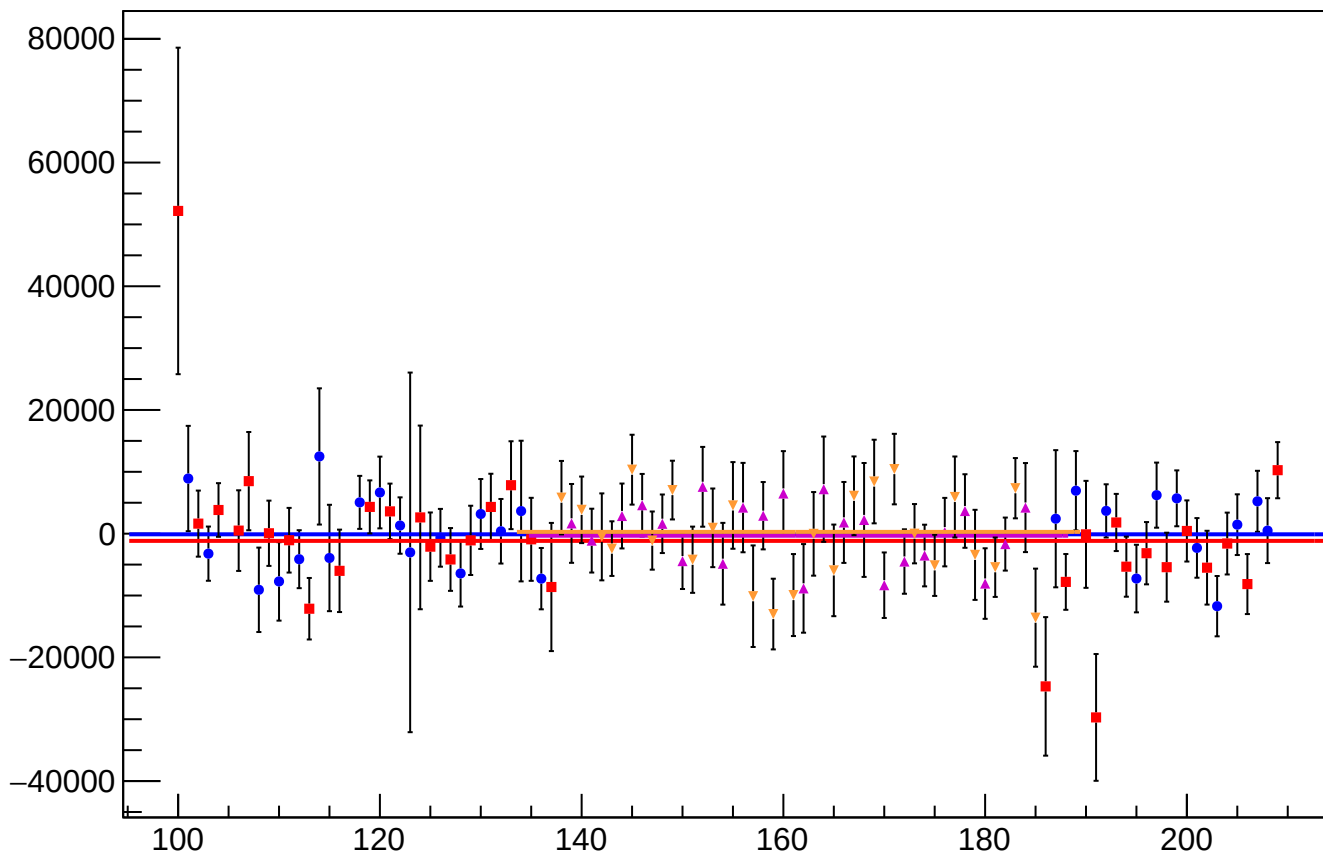
All: 555.398 $\pm$ 260.940 χ^2 /NDF: 118.4/107

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1913.595+/-0.471	χ^2/NDF : 12106223.7/27	Left: 1253.867+/-0.255	χ^2/NDF : 47056303.3/47
Left Out: 860.545+/-0.270	χ^2/NDF : 26340106.5/24	Right: 1362.657+/-0.267	χ^2/NDF : 33988124.0/59
Right Out: 1099.981+/-0.325	χ^2/NDF : 19857482.7/31	In: 2603.594+/-0.402	χ^2/NDF : 21373690.6/50
Left In: 4454.402+/-0.771	χ^2/NDF : 1349758.1/22	Out: 958.419+/-0.208	χ^2/NDF : 46518658.7/56
		All: 1305.678+/-0.185	χ^2/NDF : 81131140.6/131

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -103.132 ± 1042.998 $\chi^2/\text{NDF}: 27.9/27$

Left Out: 288.508 ± 1155.419 $\chi^2/\text{NDF}: 32.4/24$

Right Out: -1165.499 ± 998.260 $\chi^2/\text{NDF}: 44.4/31$

Left In: -332.488 ± 1196.011 $\chi^2/\text{NDF}: 14.7/22$

Left: -11.273 ± 830.984 $\chi^2/\text{NDF}: 47.2/47$

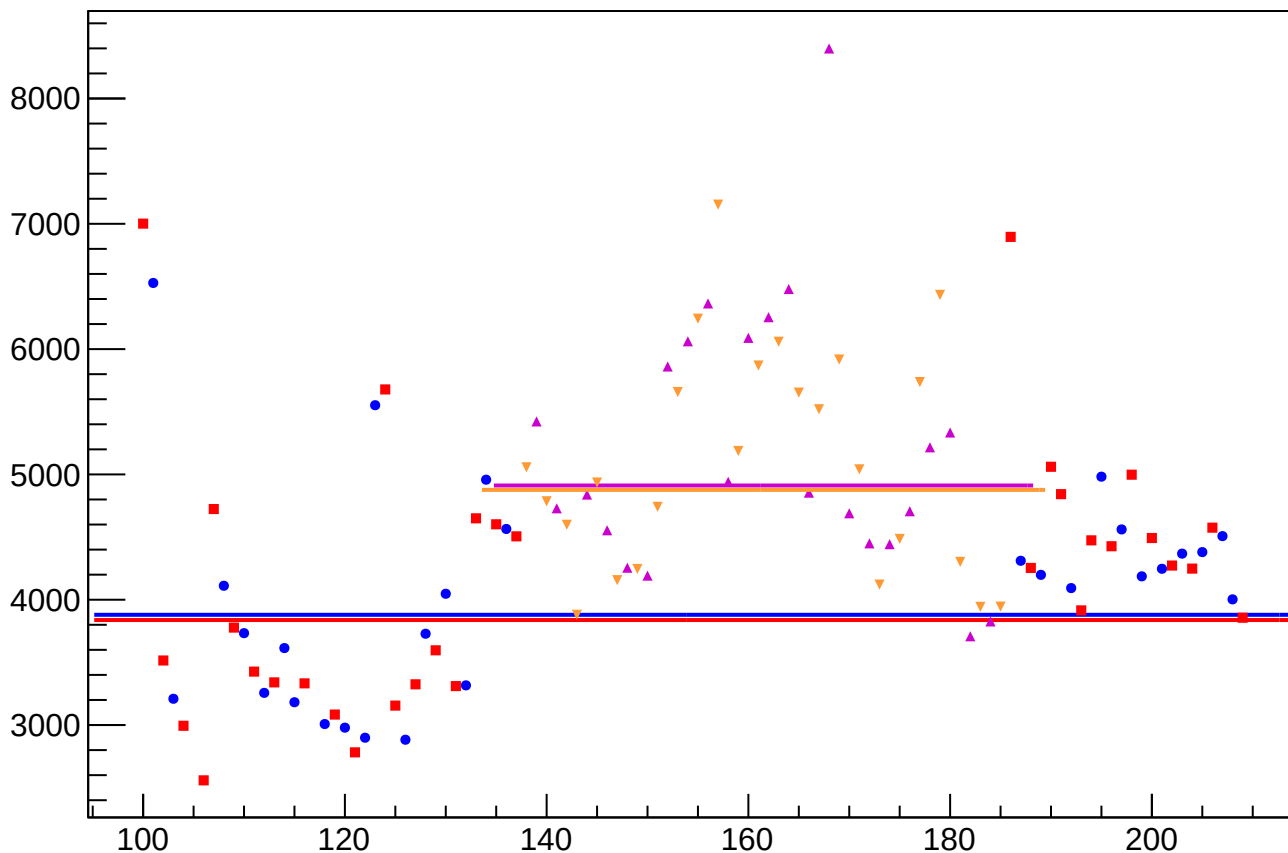
Right: -657.588 ± 721.174 $\chi^2/\text{NDF}: 72.8/59$

In: -202.209 ± 786.079 $\chi^2/\text{NDF}: 42.6/50$

Out: -544.036 ± 755.377 $\chi^2/\text{NDF}: 77.7/56$

All: -379.928 ± 544.663 $\chi^2/\text{NDF}: 120.4/107$

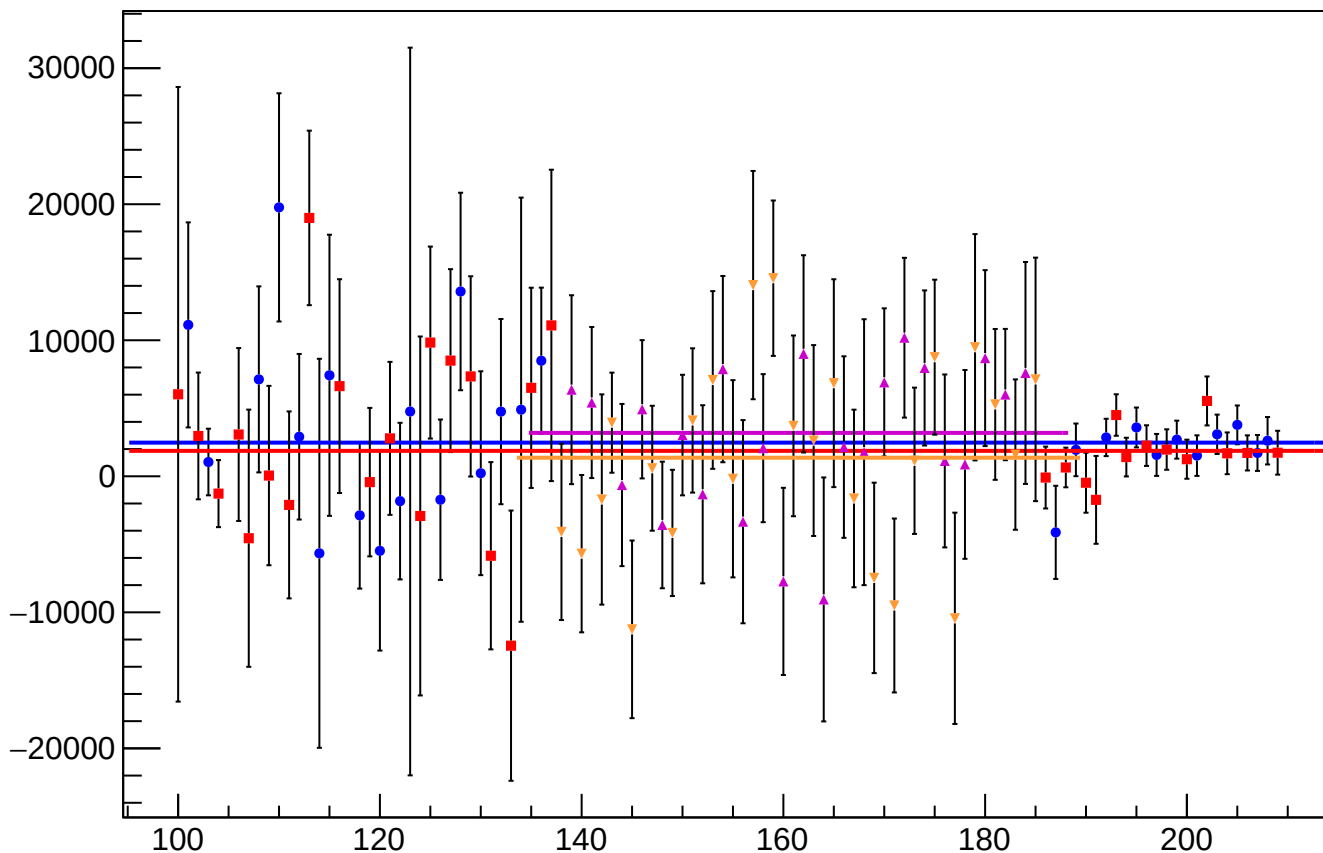
asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3879.702 $\pm$ 0.738 χ^2 /NDF: 920407.7/27
 Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF: 972528.1/24
 Right Out: 3837.930 $\pm$ 0.701 χ^2 /NDF: 1123690.5/31
 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: 3857.747 $\pm$ 0.508 χ^2 /NDF: 2045784.4/59
 In: 4325.435 $\pm$ 0.556 χ^2 /NDF: 2809151.2/50
 Out: 4278.105 $\pm$ 0.532 χ^2 /NDF: 3027428.9/56
 All: 4300.727 $\pm$ 0.384 χ^2 /NDF: 5840365.0/100

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2475.086+/-443.887 χ^2/NDF : 20.6/27

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1869.857+/-425.744 χ^2/NDF : 29.0/31

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

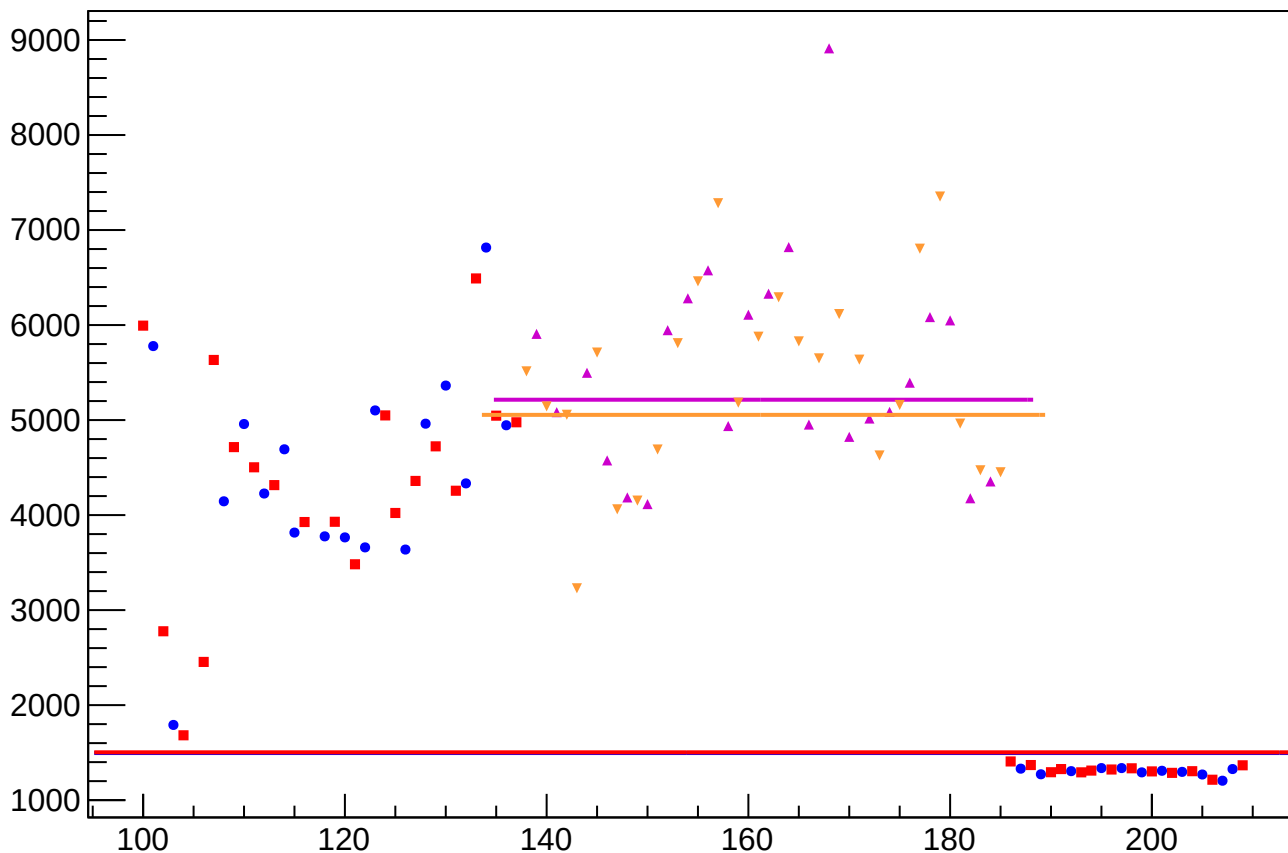
Right: 2159.850+/-307.260 χ^2/NDF : 50.5/59

In: 2553.038+/-419.030 χ^2/NDF : 34.8/50

Out: 1813.943+/-401.472 χ^2/NDF : 57.1/56

All: 2167.682+/-289.892 χ^2/NDF : 93.6/107

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1495.685 $\pm$ 0.314 χ^2 /NDF: 5837969.3/27

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF:1437224.7/24

Right Out: 1503.313 $\pm$ 0.301 χ^2 /NDF: 5761574.9/31

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

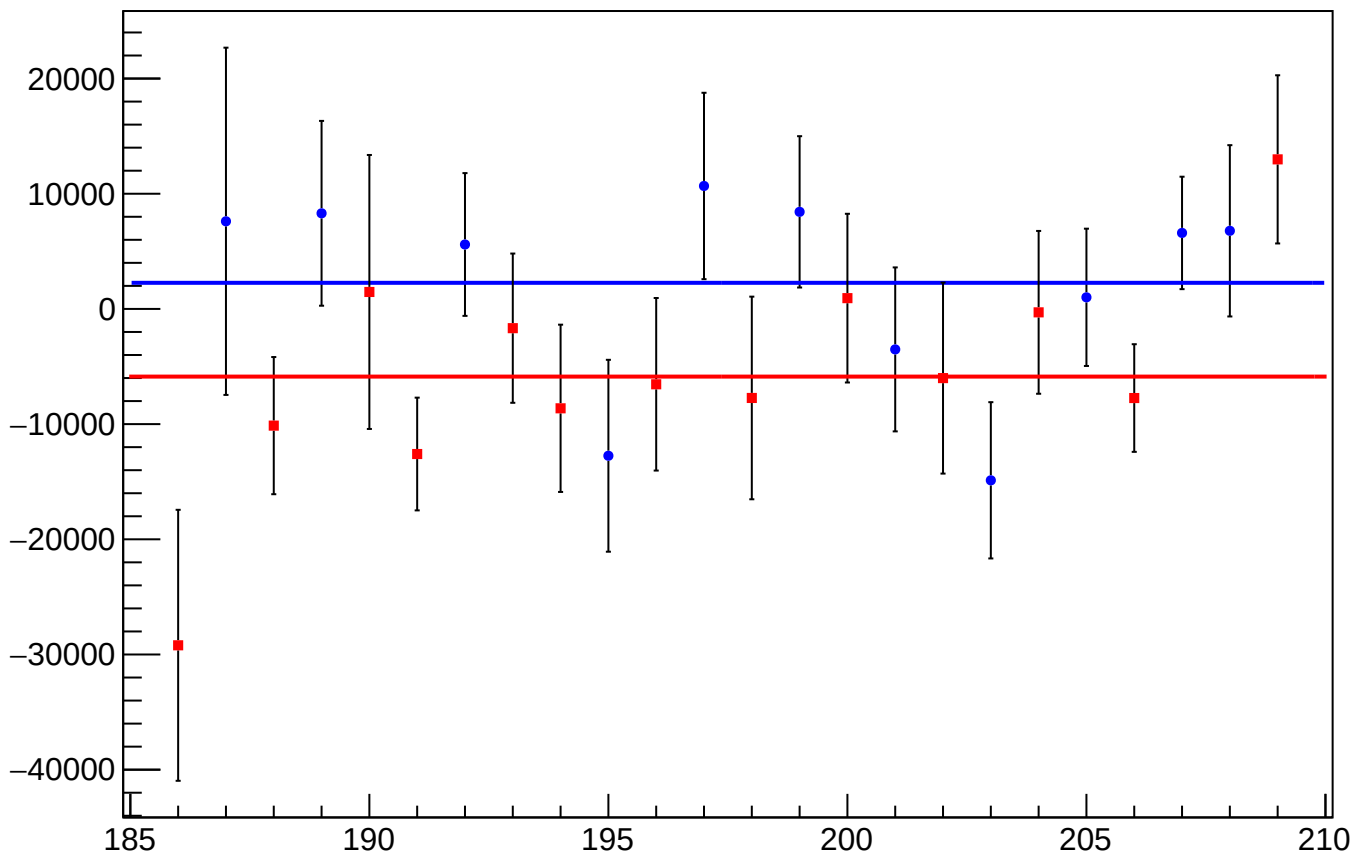
Right: 1499.661 $\pm$ 0.217 χ^2 /NDF: 11599852.2/59

In: 1900.472 $\pm$ 0.296 χ^2 /NDF:22168756.5/50

Out: 1896.086 $\pm$ 0.284 χ^2 /NDF:22617223.9/56

All: 1898.184 $\pm$ 0.205 χ^2 /NDF: 44786094.7/112

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 2267.180+/-2091.785 χ^2/NDF : 14.4/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -5874.153+/-1904.894 χ^2/NDF : 15.6/12

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

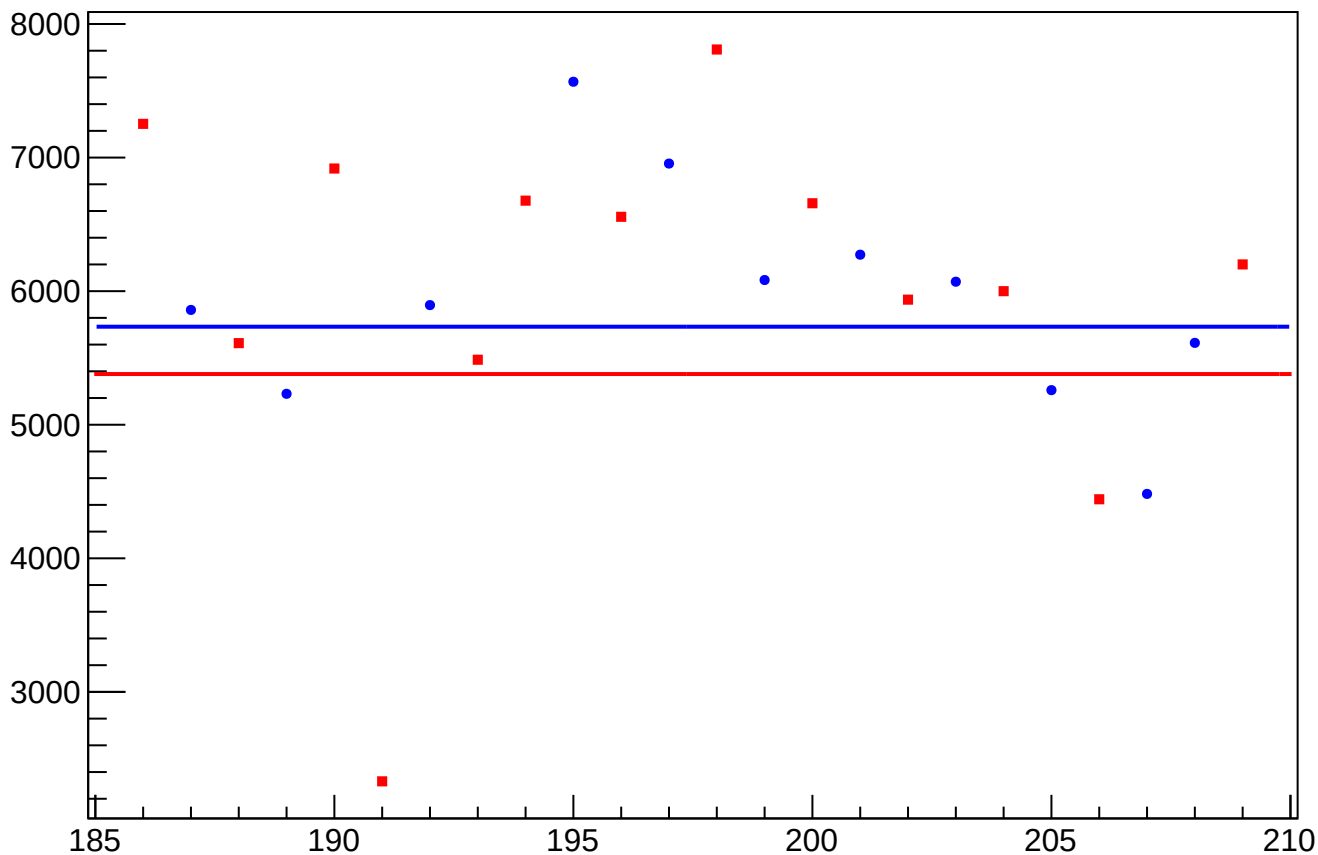
Right: -2183.357+/-1408.411 χ^2/NDF : 38.4/23

In: 2267.180+/-2091.785 χ^2/NDF : 14.4/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -2183.357+/-1408.411 χ^2/NDF : 38.4/23

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5733.919+/-1.479 χ^2/NDF : 318697.1/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5379.585+/-1.347 χ^2/NDF : 1321193.1/12

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

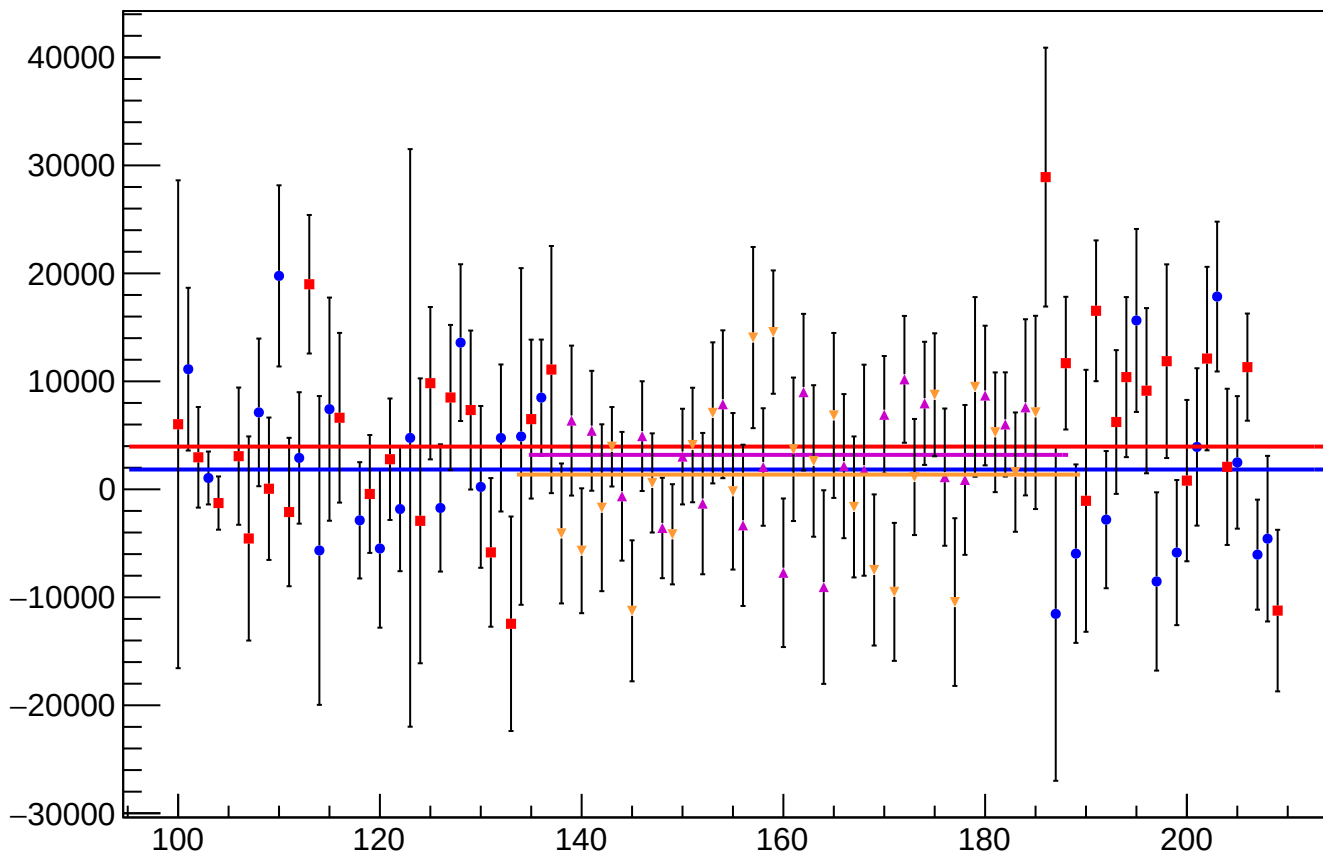
Right: 5540.219+/-0.996 χ^2/NDF : 1671262.0/23

In: 5733.919+/-1.479 χ^2/NDF : 318697.1/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5540.219+/-0.996 χ^2/NDF : 1671262.0/23

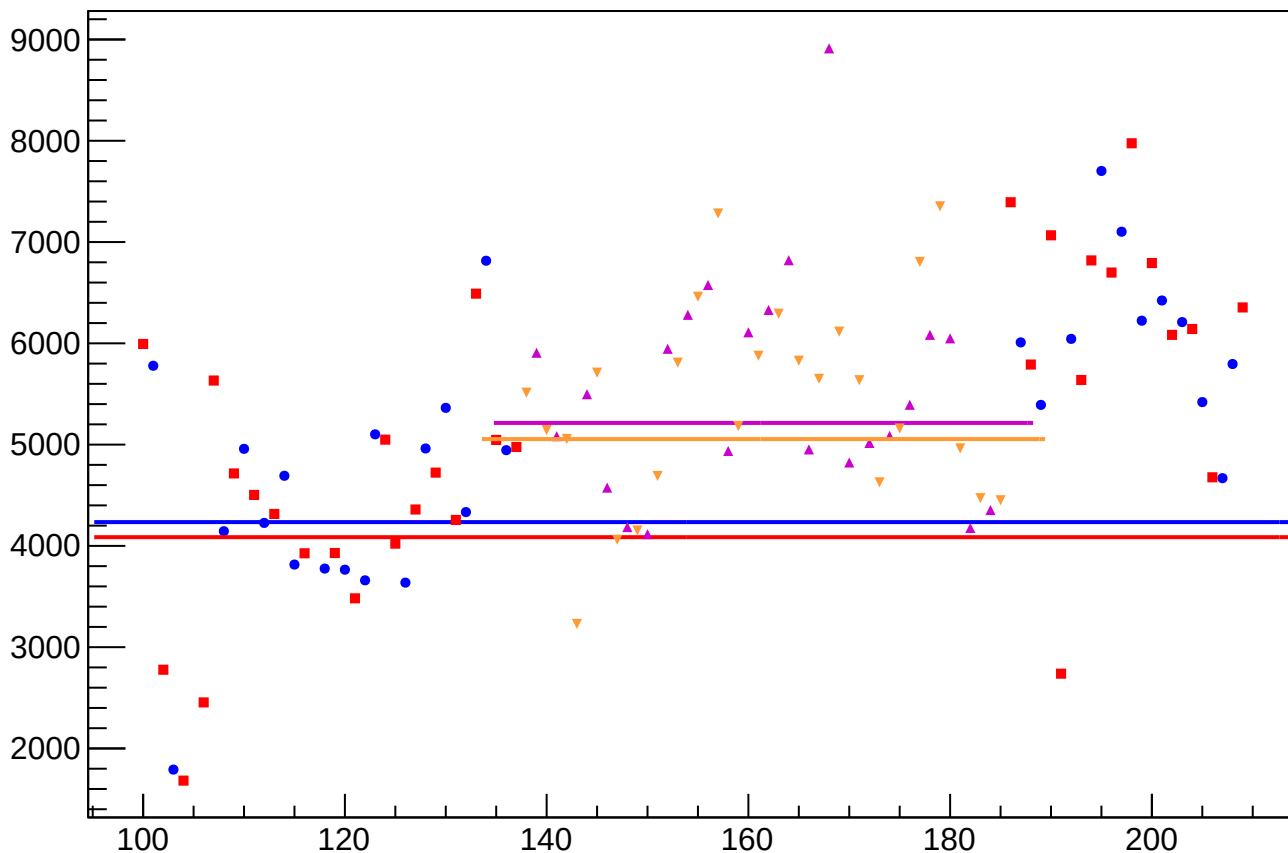
asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1835.434+/-1205.802 χ^2/NDF : 30.6/27
 Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24
 Right Out: 3958.258+/-1142.918 χ^2/NDF : 39.1/31
 Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47
 Right: 2953.641+/-829.506 χ^2/NDF : 71.3/59
 In: 2478.155+/-874.453 χ^2/NDF : 45.2/50
 Out: 2731.548+/-829.657 χ^2/NDF : 69.5/56
 All: 2611.508+/-601.870 χ^2/NDF : 114.7/107

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4234.883 $\pm$ 0.853

χ^2 /NDF: 3810279.1/27

Left Out: 5054.711 $\pm$ 0.853

χ^2 /NDF: 1437224.7/24

Right Out: 4086.173 $\pm$ 0.803

χ^2 /NDF: 4806691.4/31

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: 4156.083 $\pm$ 0.585

χ^2 /NDF: 8633090.3/59

In: 4699.110 $\pm$ 0.618

χ^2 /NDF: 5488113.1/50

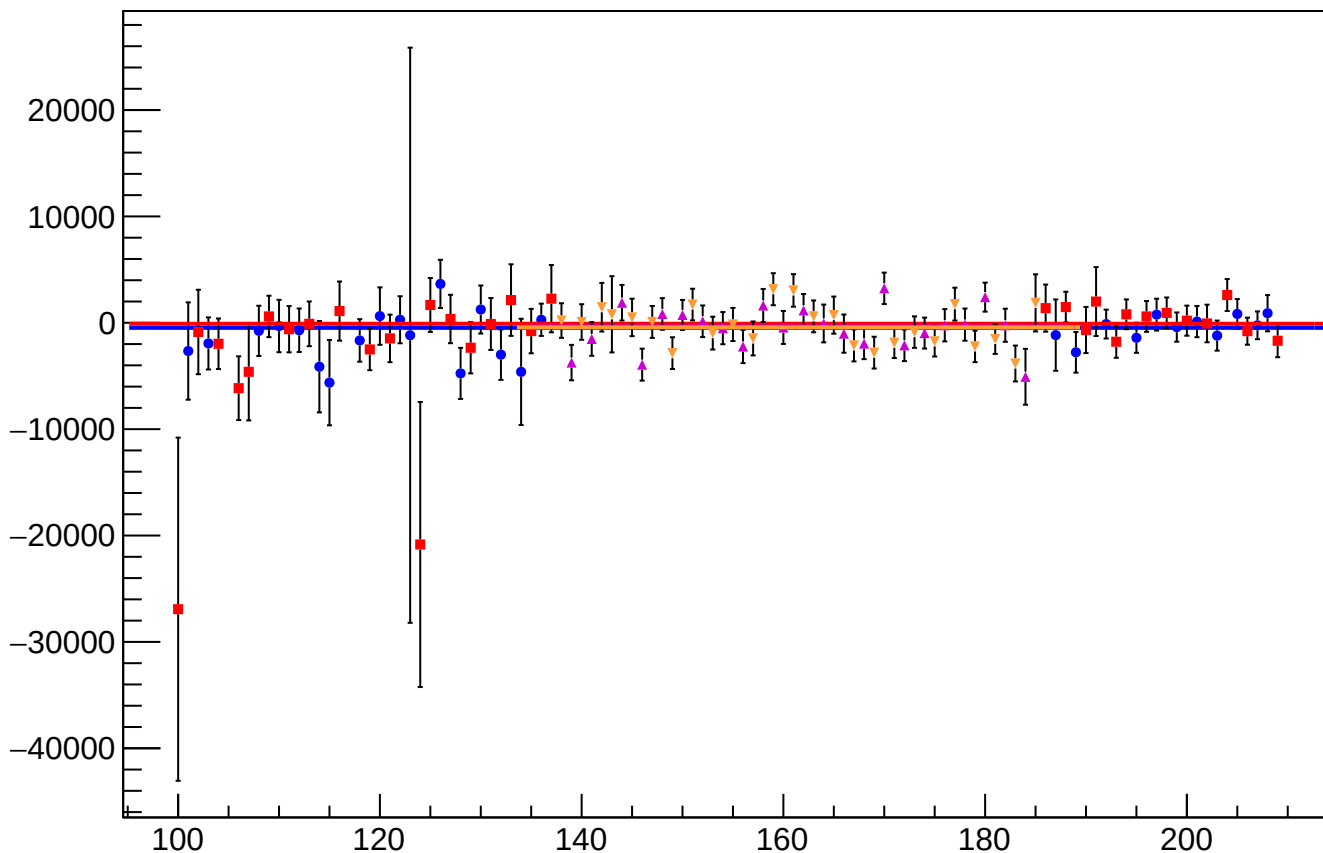
Out: 4541.294 $\pm$ 0.585

χ^2 /NDF: 6927402.6/56

All: 4615.795 $\pm$ 0.425

χ^2 /NDF: 12449906.6/100

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -474.817+/-364.833 χ^2/NDF : 17.4/27

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -91.741+/-353.378 χ^2/NDF : 24.8/31

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

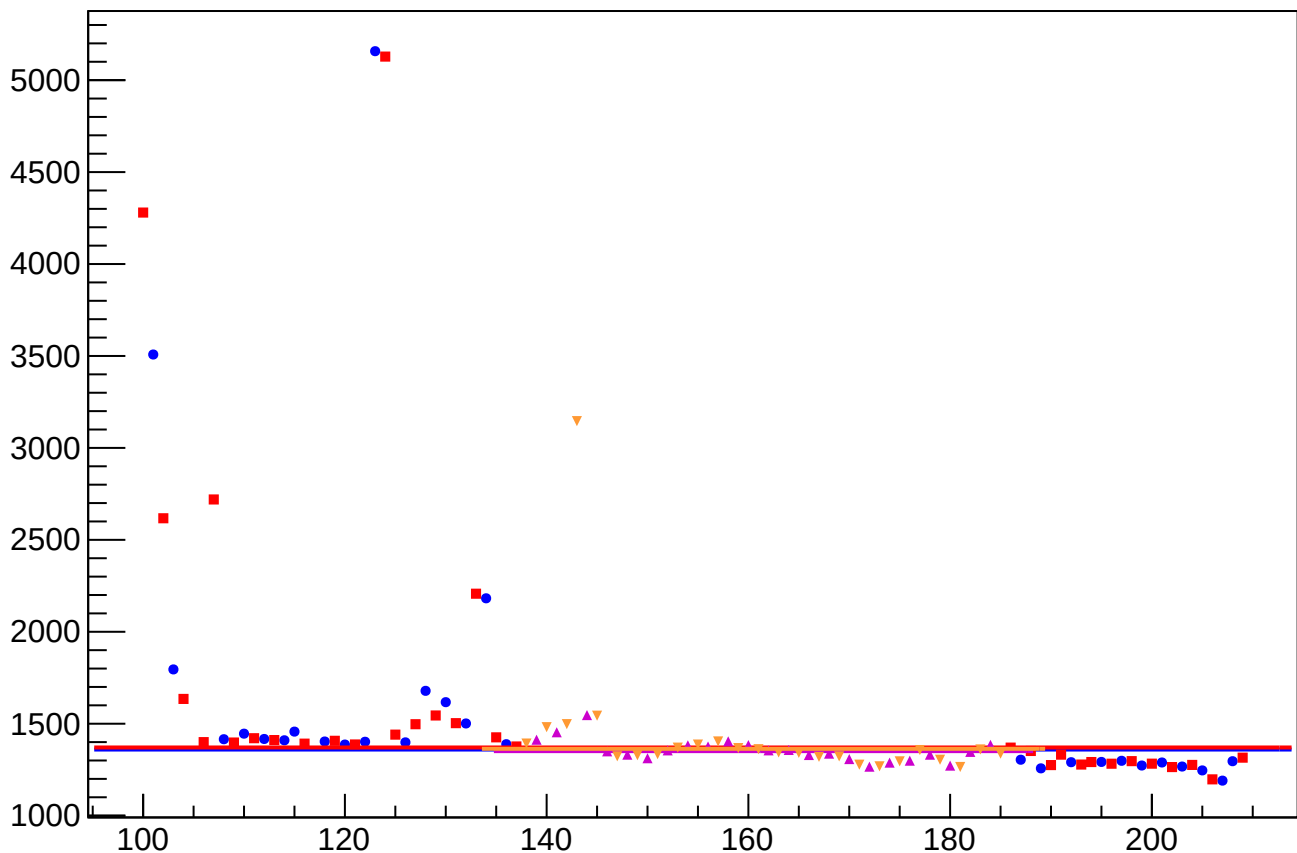
Right: -277.170+/-253.829 χ^2/NDF : 42.8/59

In: -401.607+/-242.412 χ^2/NDF :51.3/50

Out: -278.254+/-237.418 χ^2/NDF :58.4/56

All: -338.647+/-169.618 χ^2/NDF : 109.8/107

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1359.580+/-0.258 χ^2/NDF : 766490.1/27

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1370.803+/-0.250 χ^2/NDF : 864703.6/31

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

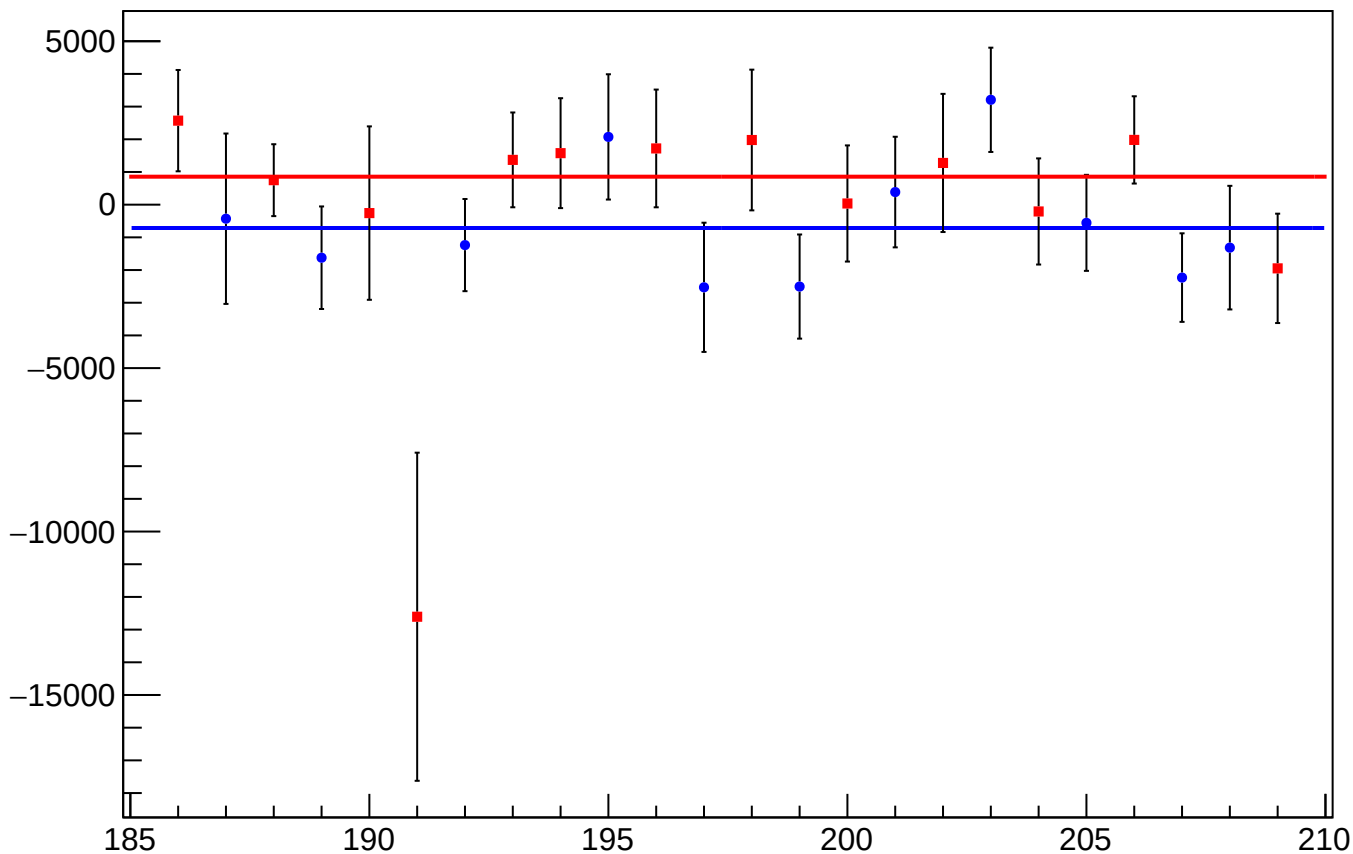
Right: 1365.370+/-0.179 χ^2/NDF : 1632170.2/59

In: 1354.737+/-0.171 χ^2/NDF : 834265.6/50

Out: 1366.830+/-0.168 χ^2/NDF : 1440391.0/56

All: 1360.909+/-0.120 χ^2/NDF : 2277197.0/100

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -713.758+/-499.388 χ^2/NDF : 12.5/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 856.016+/-465.378 χ^2/NDF : 13.6/12

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

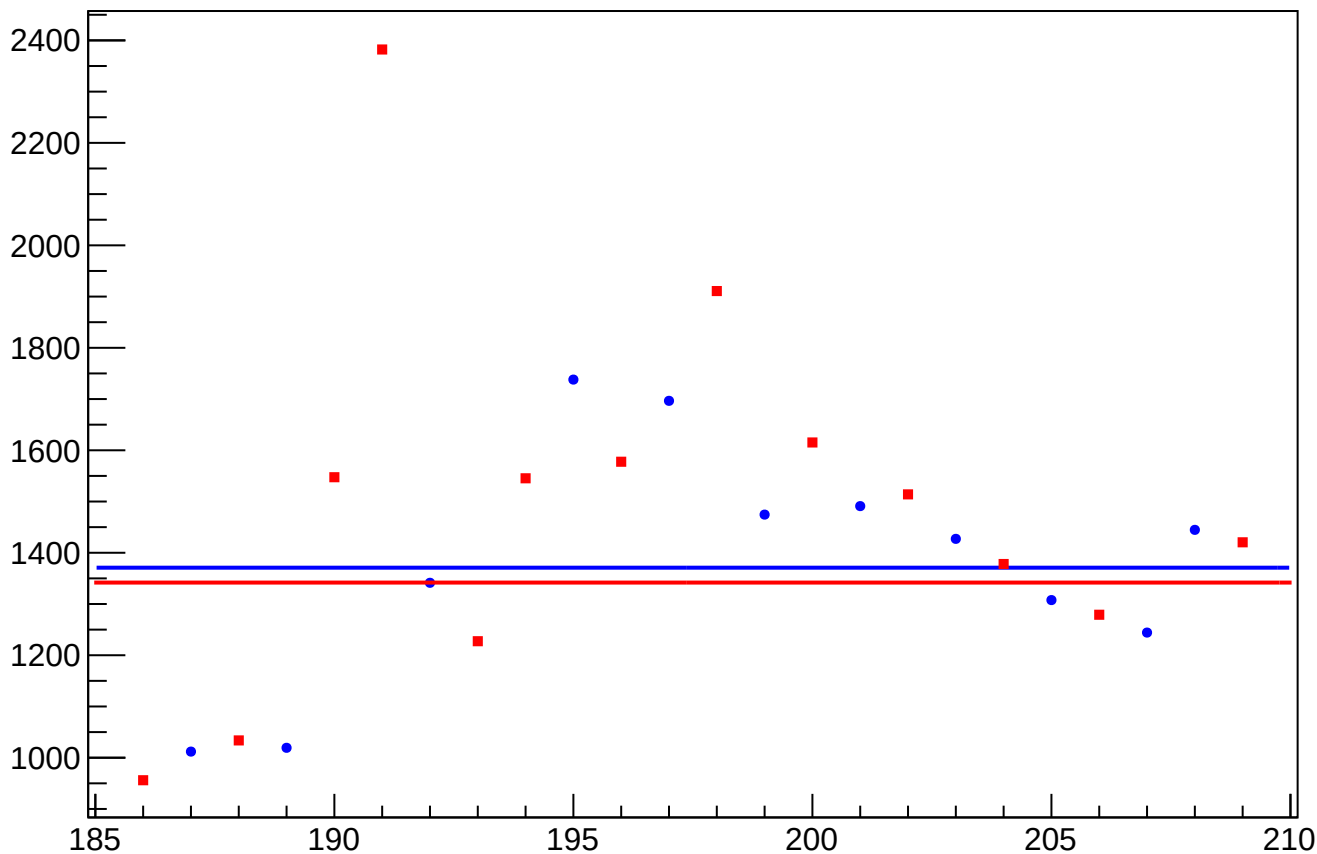
Right: 126.398+/-340.461 χ^2/NDF : 31.4/23

In: -713.758+/-499.388 χ^2/NDF : 12.5/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 126.398+/-340.461 χ^2/NDF : 31.4/23

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1370.886+/-0.353 χ^2/NDF : 312224.1/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1341.831+/-0.329 χ^2/NDF : 665143.7/12

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

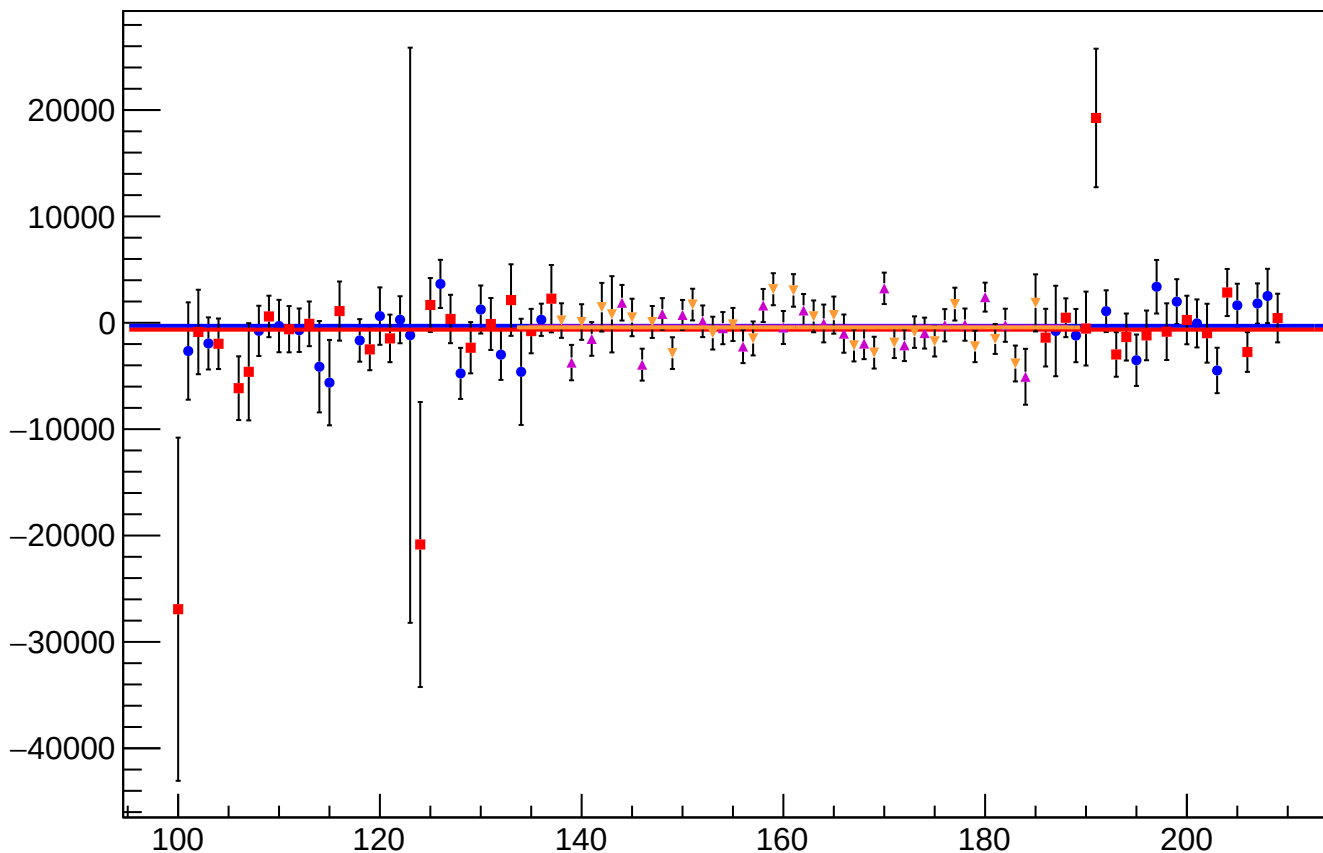
Right: 1355.335+/-0.241 χ^2/NDF : 980991.3/23

In: 1370.886+/-0.353 χ^2/NDF : 312224.1/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1355.335+/-0.241 χ^2/NDF : 980991.3/23

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -287.570+/-454.355 χ^2/NDF : 26.1/27

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -646.767+/-442.226 χ^2/NDF : 29.7/31

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

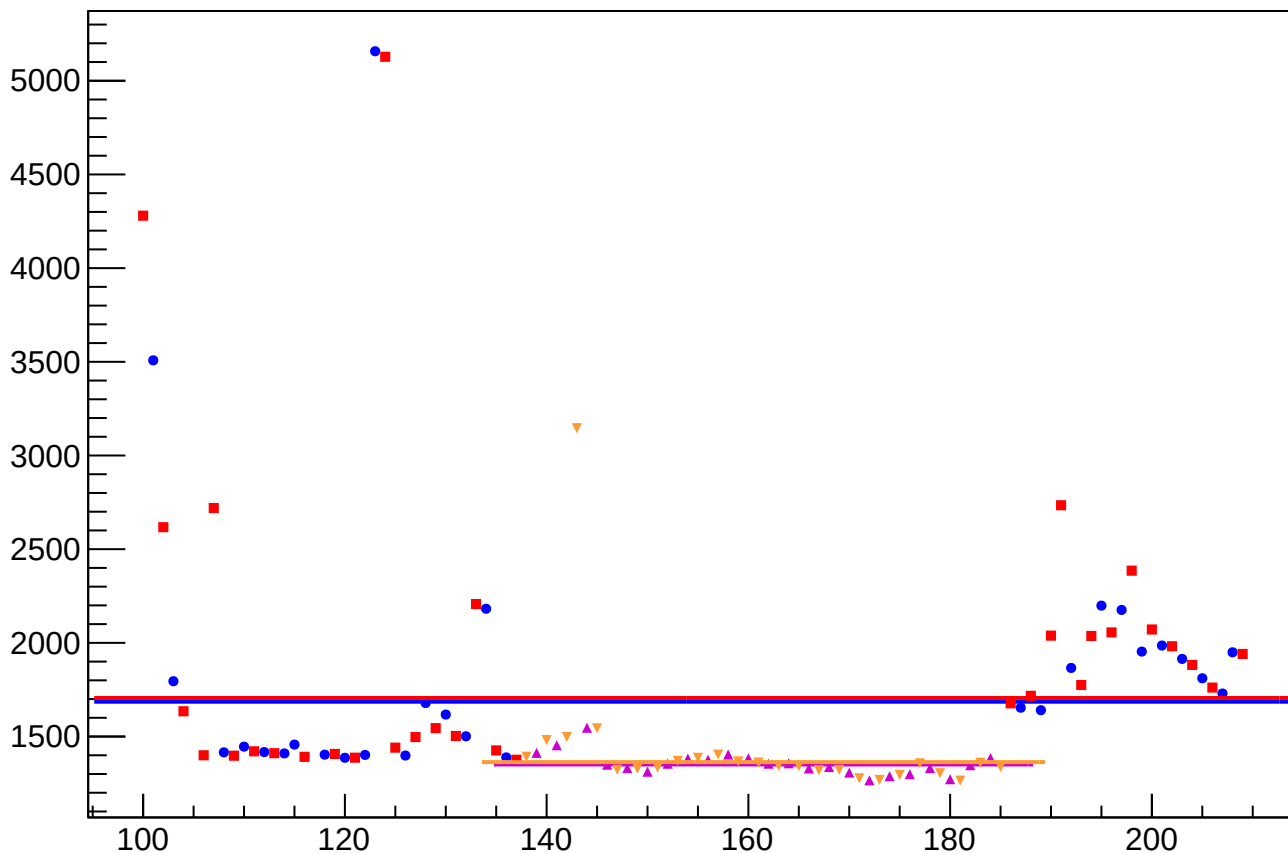
Right: -472.027+/-316.902 χ^2/NDF : 56.2/59

In: -324.775+/-263.996 χ^2/NDF :59.9/50

Out: -505.784+/-259.533 χ^2/NDF :63.0/56

All: -416.823+/-185.075 χ^2/NDF : 123.1/107

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1685.948+/-0.321 χ^2/NDF : 993018.7/27

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1705.765+/-0.313 χ^2/NDF : 1205410.2/31

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

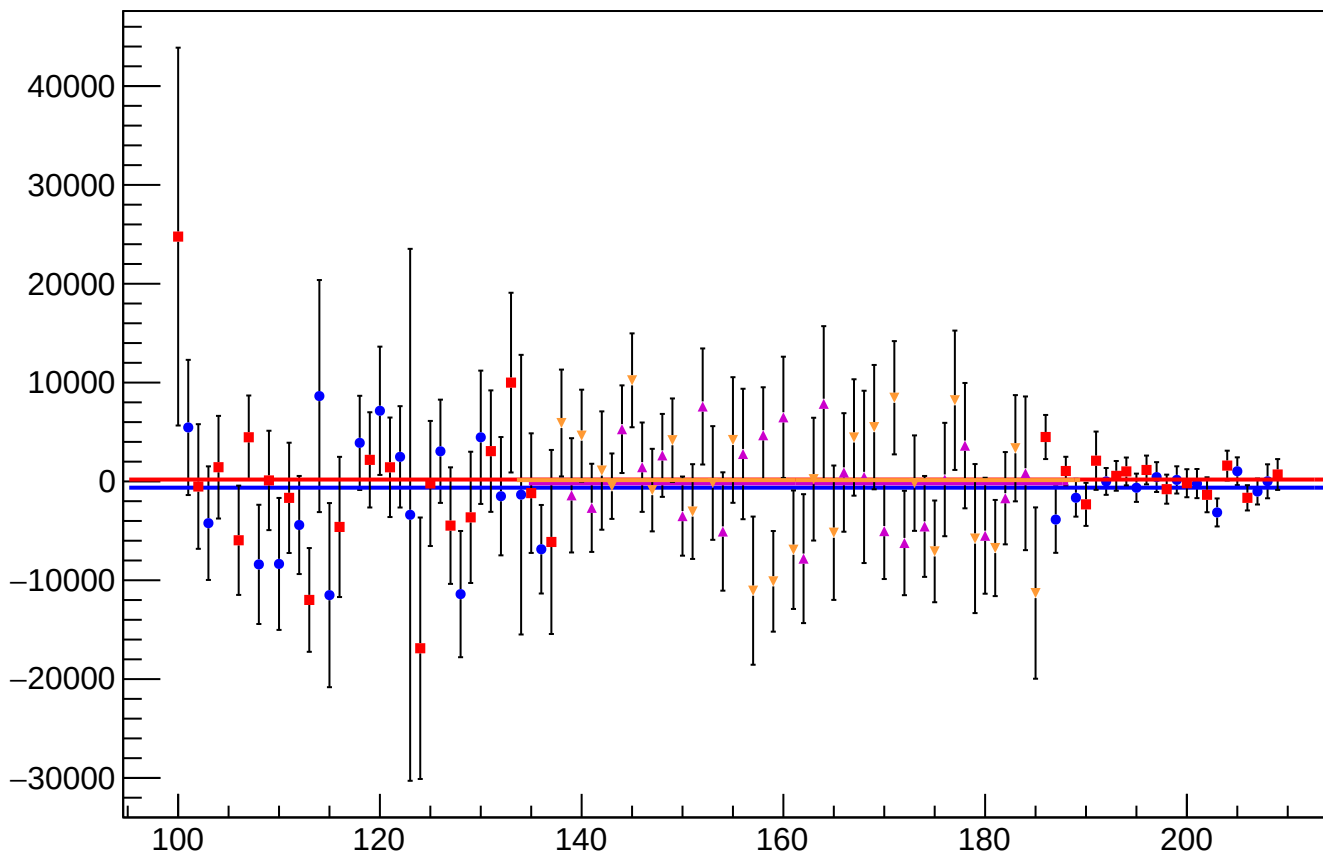
Right: 1696.125+/-0.224 χ^2/NDF : 2200382.8/59

In: 1464.019+/-0.187 χ^2/NDF : 1780525.1/50

Out: 1481.426+/-0.184 χ^2/NDF : 2565756.1/56

All: 1472.871+/-0.131 χ^2/NDF : 4350702.9/100

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -631.957 ± 439.534 χ^2/NDF : 22.4/27

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: 190.881 ± 419.110 χ^2/NDF : 25.7/31

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

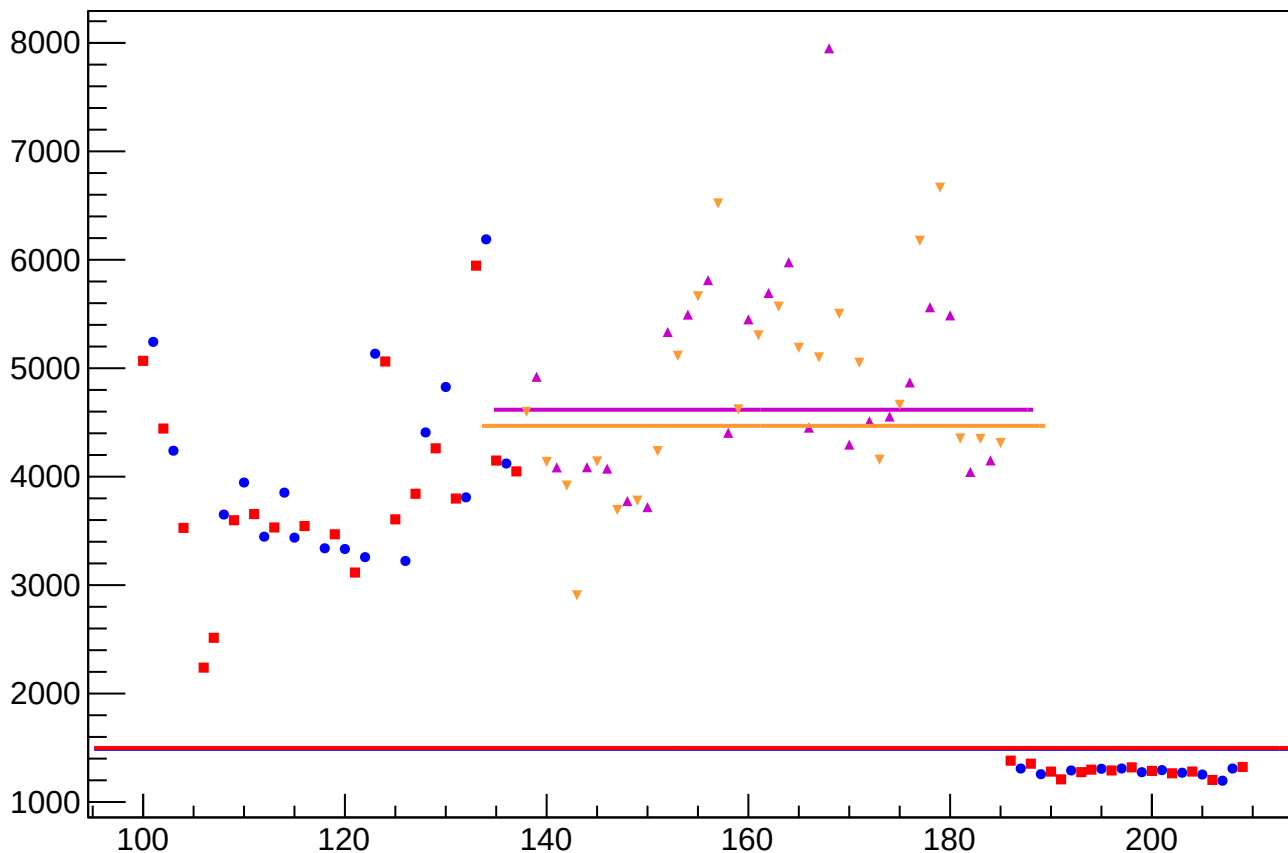
Right: -200.977 ± 303.319 χ^2/NDF : 50.0/59

In: -574.645 ± 409.325 χ^2/NDF : 37.3/50

Out: 183.011 ± 390.025 χ^2/NDF : 53.8/56

All: -177.534 ± 282.366 χ^2/NDF : 92.9/107

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1490.165 $\pm$ 0.311 χ^2 /NDF: 5595270.7/27

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF: 1380601.0/24

Right Out: 1498.618 $\pm$ 0.296 χ^2 /NDF: 5424563.0/31

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

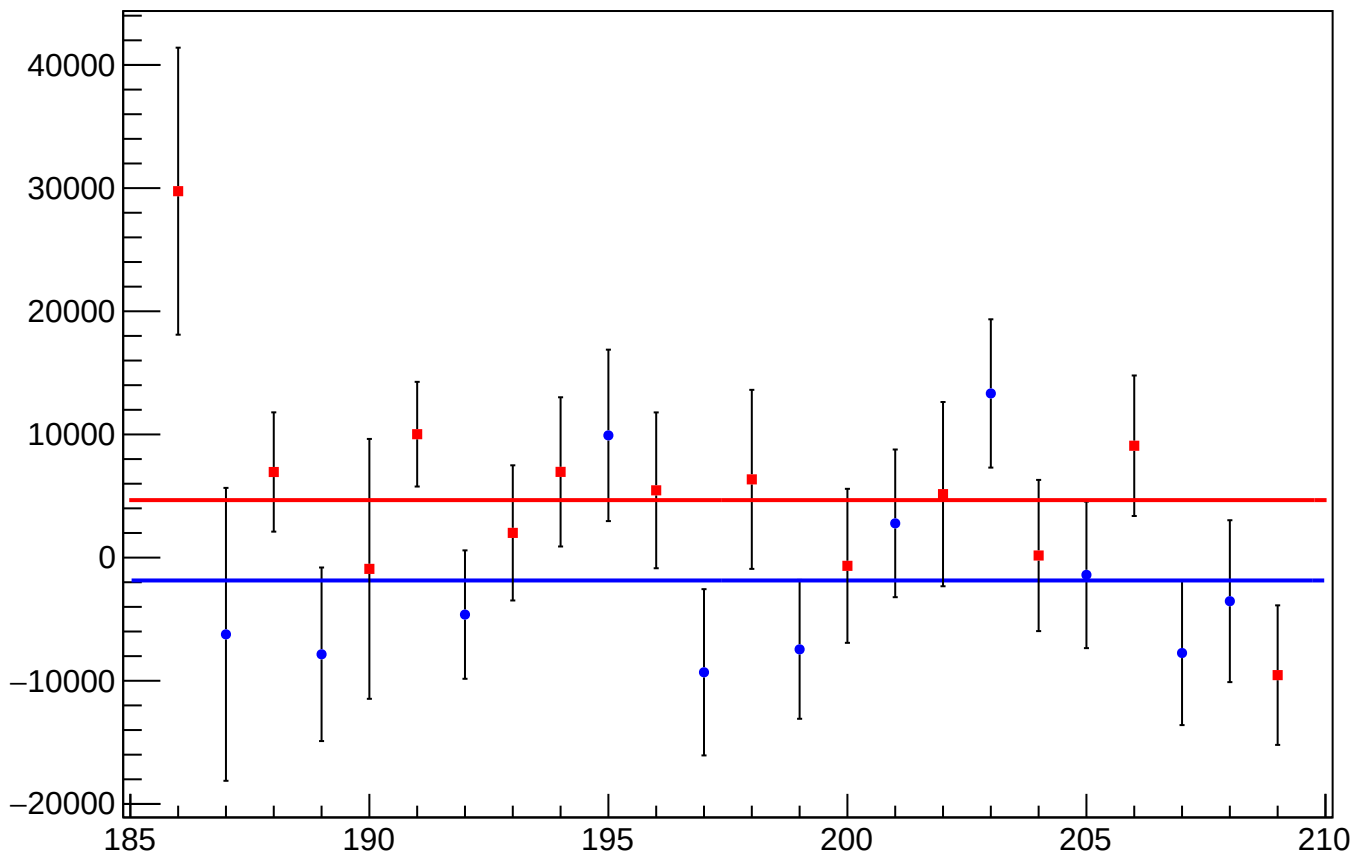
Right: 1494.596 $\pm$ 0.214 χ^2 /NDF: 11020221.5/59

In: 1905.248 $\pm$ 0.289 χ^2 /NDF: 20032634.1/50

Out: 1895.940 $\pm$ 0.276 χ^2 /NDF: 20263740.5/56

All: 1900.366 $\pm$ 0.200 χ^2 /NDF: 40296917.0/112

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -1855.747+/-1910.209 χ^2/NDF : 14.3/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4667.933+/-1688.799 χ^2/NDF : 15.3/12

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

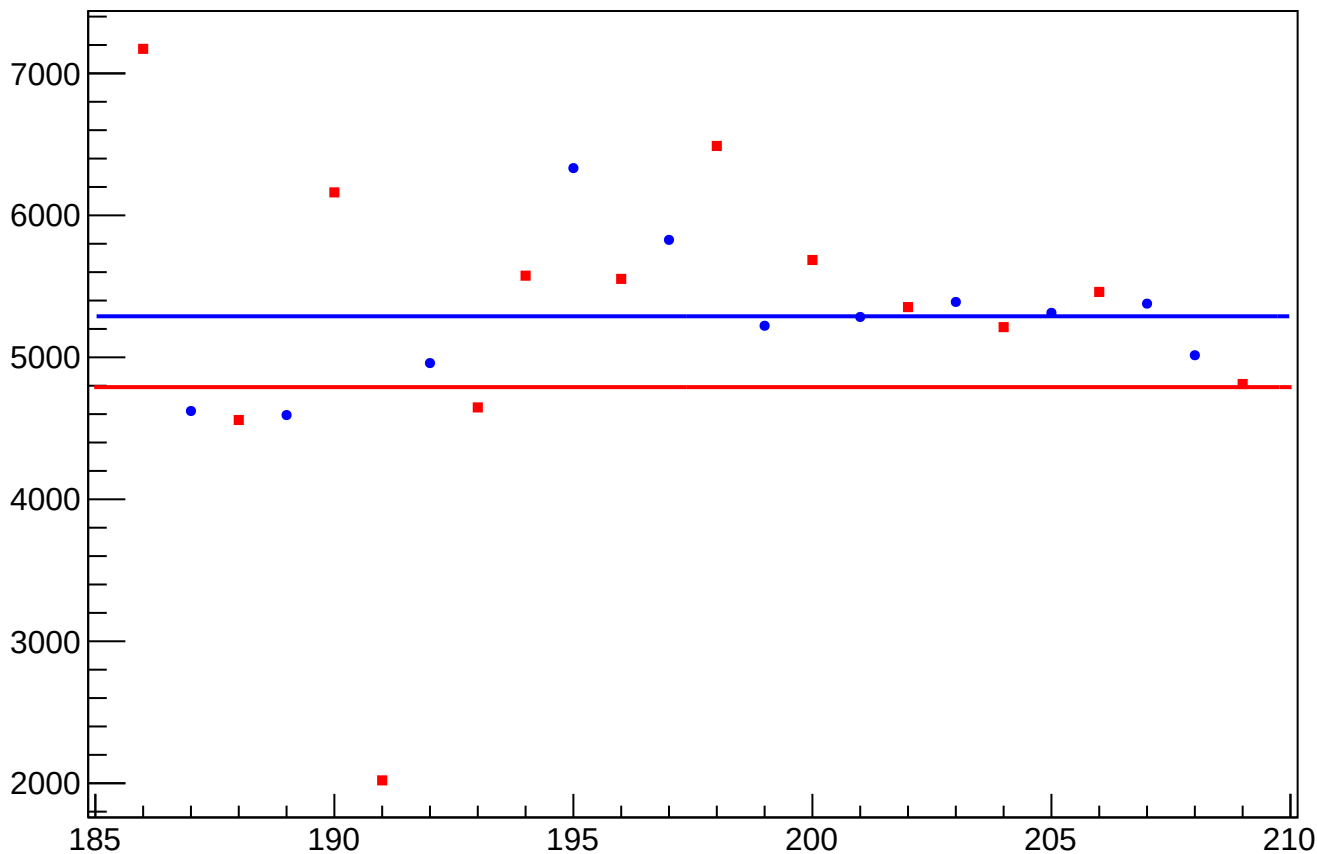
Right: 1805.916+/-1265.234 χ^2/NDF : 36.1/23

In: -1855.747+/-1910.209 χ^2/NDF : 14.3/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1805.916+/-1265.234 χ^2/NDF : 36.1/23

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5289.110+/-1.351 χ^2 /NDF: 96305.5/10

Left Out: 0.000+/-0.000 χ^2 /NDF:0.0/0

Right Out: 4790.121+/-1.194 χ^2 /NDF: 1234358.7/12

Left In: 0.000+/-0.000 χ^2 /NDF:0.0/0

Left: 0.000+/-0.000 χ^2 /NDF: 0.0/0

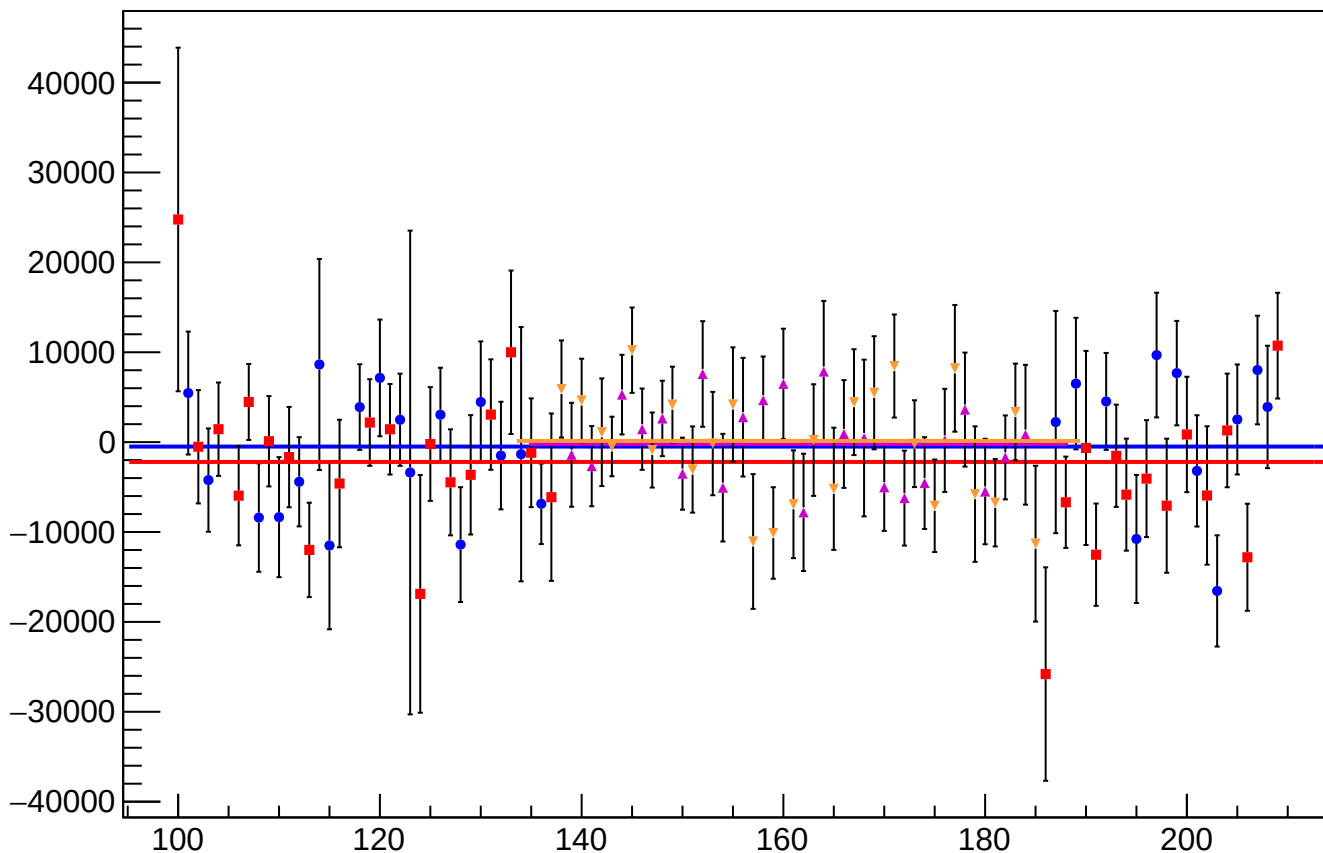
Right: 5009.033+/-0.895 χ^2 /NDF: 1407265.3/23

In: 5289.110+/-1.351 χ^2 /NDF:96305.5/10

Out: 0.000+/-0.000 χ^2 /NDF:0.0/0

All: 5009.033+/-0.895 χ^2 /NDF: 1407265.3/23

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -494.150 ± 1202.317 χ^2/NDF : 33.1/27

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: -2202.004 ± 1097.294 χ^2/NDF : 32.6/31

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

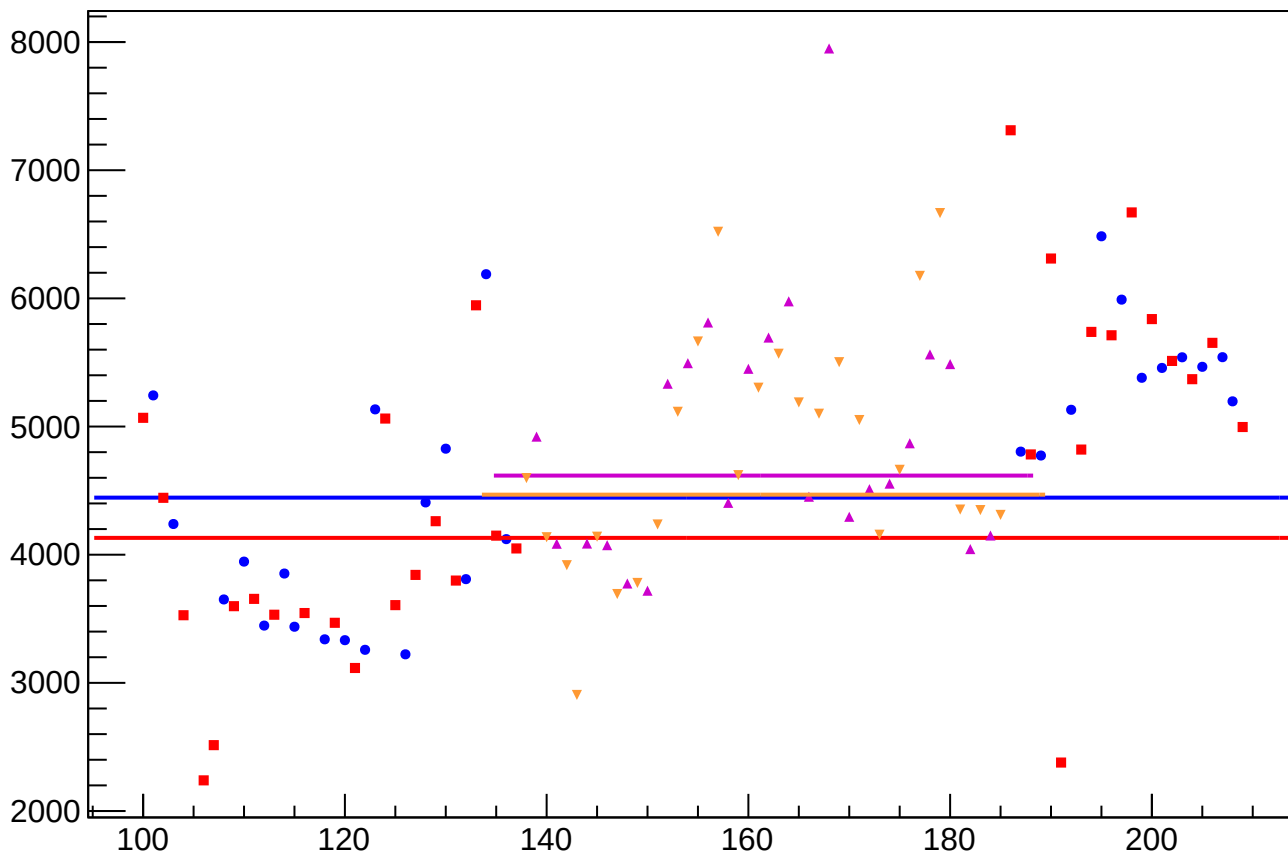
Right: -1425.912 ± 810.495 χ^2/NDF : 66.8/59

In: -337.215 ± 820.885 χ^2/NDF : 47.9/50

Out: -1000.672 ± 764.431 χ^2/NDF : 63.1/56

All: -692.540 ± 559.428 χ^2/NDF : 111.3/107

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4445.329 $\pm$ 0.850 χ^2 /NDF: 1254603.9/27

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF: 1380601.0/24

Right Out: 4131.270 $\pm$ 0.771 χ^2 /NDF: 2360668.6/31

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

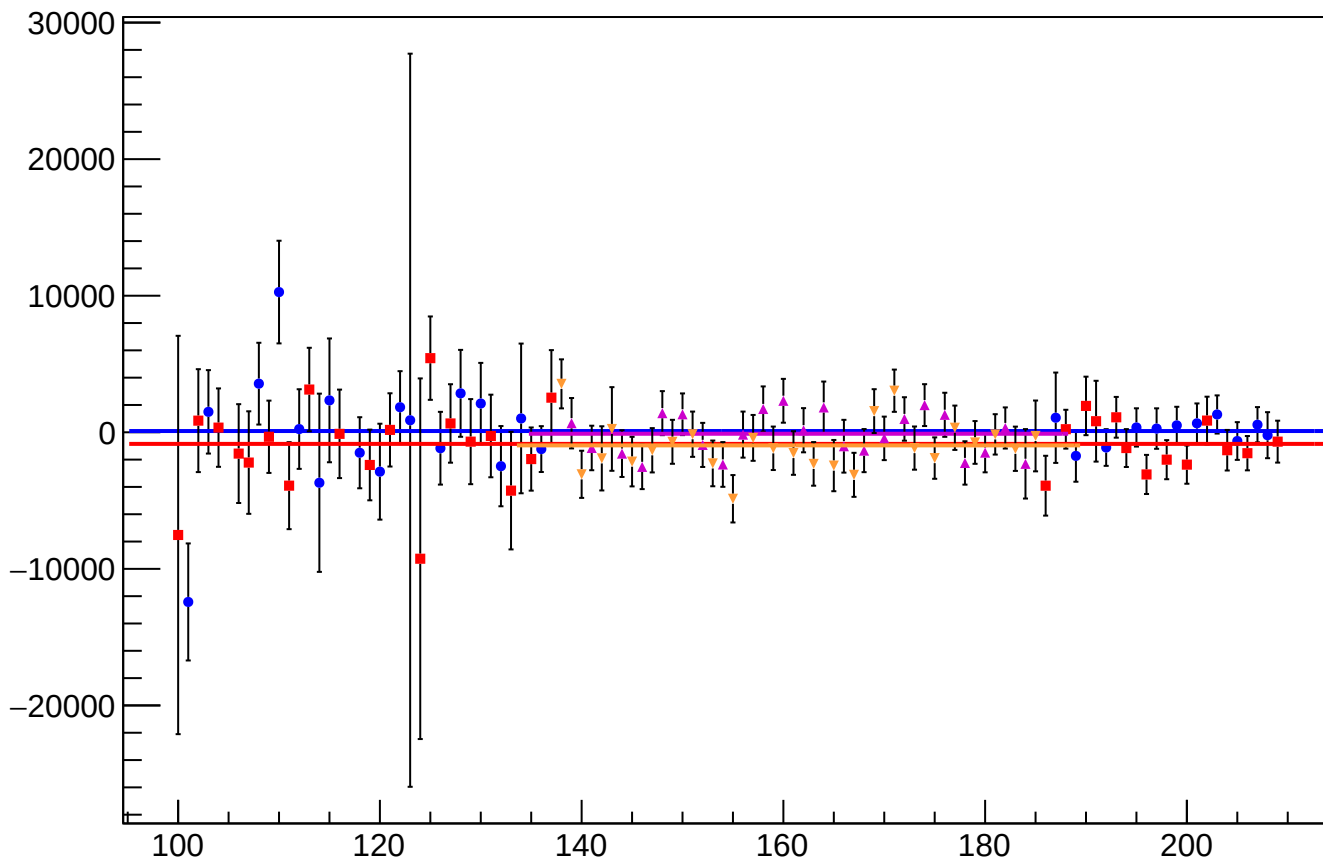
Right: 4273.084 $\pm$ 0.571 χ^2 /NDF: 3690118.2/59

In: 4537.131 $\pm$ 0.580 χ^2 /NDF: 2276045.8/50

Out: 4303.864 $\pm$ 0.539 χ^2 /NDF: 3839086.8/56

All: 4411.874 $\pm$ 0.395 χ^2 /NDF: 6201854.0/100

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 92.255+/-387.645 χ^2/NDF : 25.7/27

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -849.505+/-373.343 χ^2/NDF : 22.6/31

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

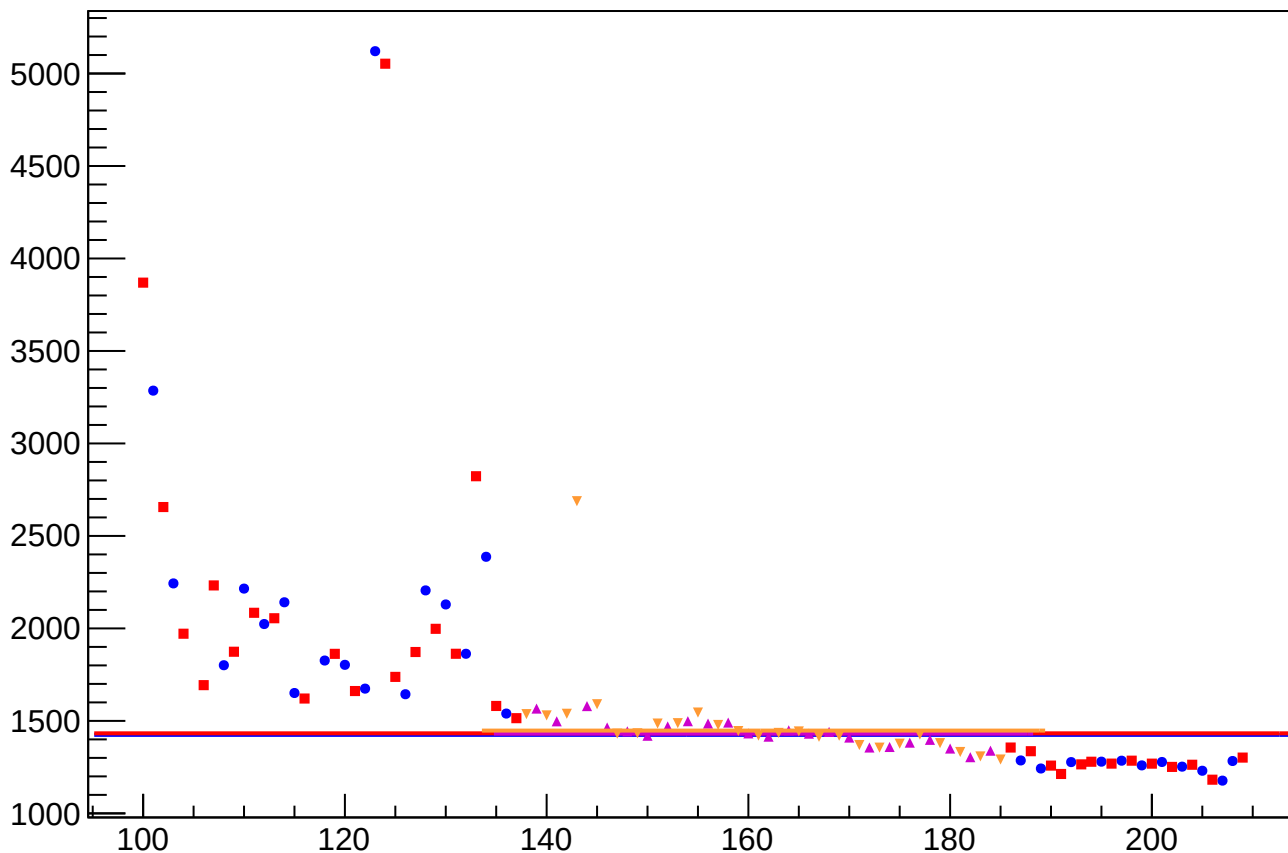
Right: -396.317+/-268.908 χ^2/NDF : 51.4/59

In: -19.600+/-257.156 χ^2/NDF : 45.3/50

Out: -909.117+/-251.176 χ^2/NDF : 51.2/56

All: -474.822+/-179.685 χ^2/NDF : 102.6/107

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1424.391+/-0.274 χ^2/NDF : 1535756.0/27

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1432.812+/-0.264 χ^2/NDF : 1580753.7/31

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

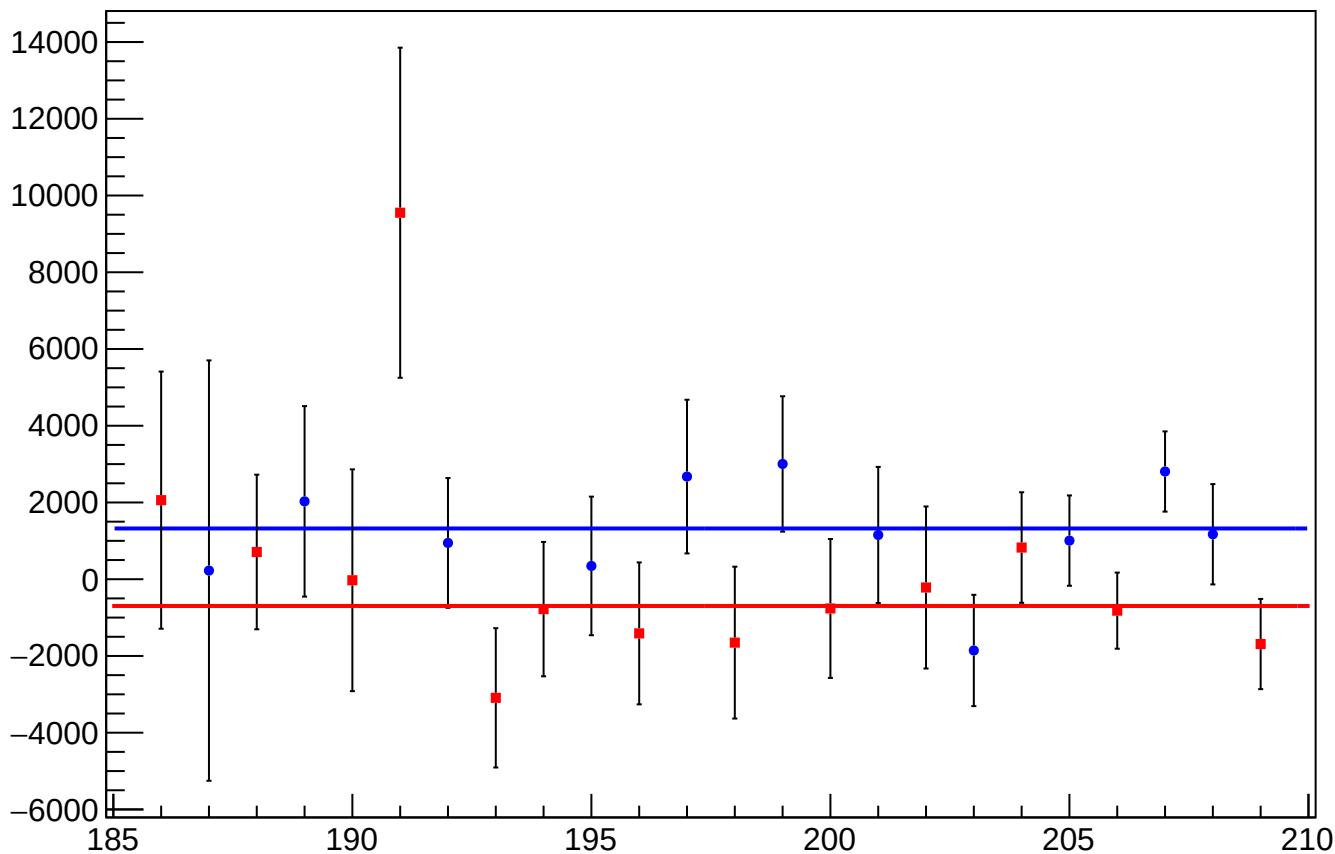
Right: 1428.760+/-0.190 χ^2/NDF : 3116999.3/59

In: 1428.347+/-0.182 χ^2/NDF : 1611258.4/50

Out: 1440.882+/-0.178 χ^2/NDF : 2001715.4/56

All: 1434.762+/-0.127 χ^2/NDF : 3615405.7/100

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1322.640+/-474.698 χ^2/NDF : 8.7/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -696.957+/-474.713 χ^2/NDF : 10.9/12

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

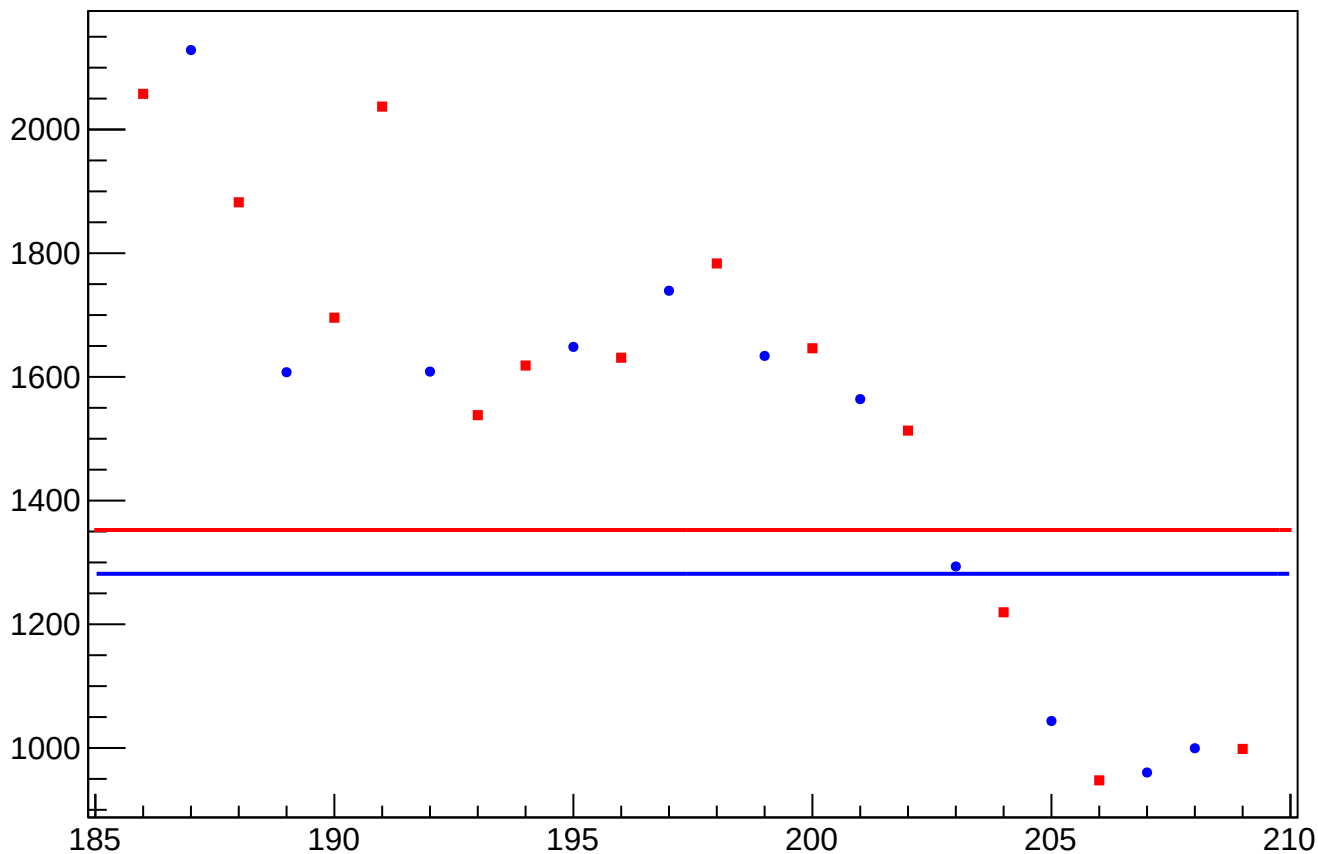
Right: 312.874+/-335.668 χ^2/NDF : 28.7/23

In: 1322.640+/-474.698 χ^2/NDF : 8.7/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 312.874+/-335.668 χ^2/NDF : 28.7/23

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1281.651+/-0.336 χ^2/NDF : 838452.7/10

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1352.476+/-0.336 χ^2/NDF : 1108896.5/12

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

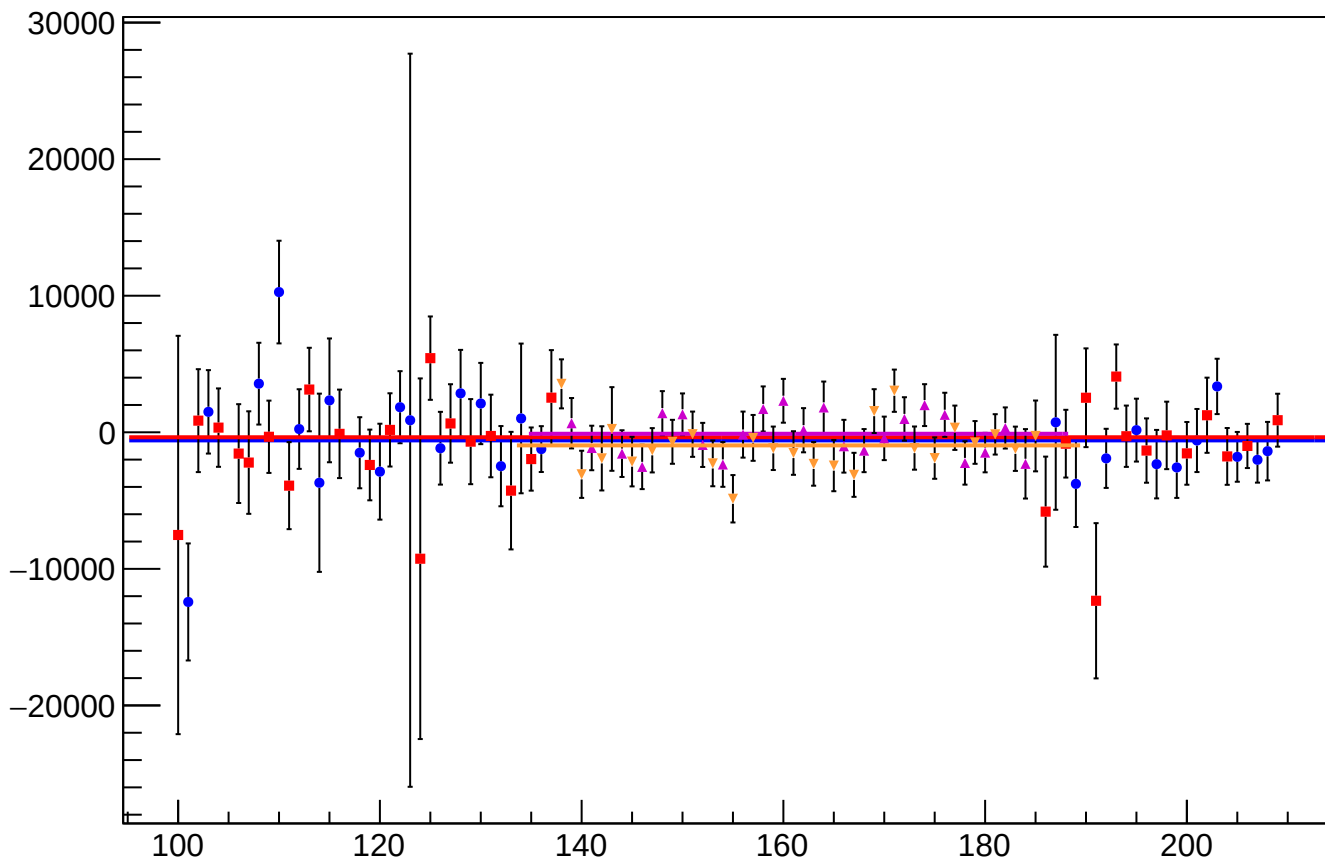
Right: 1317.062+/-0.237 χ^2/NDF : 1969609.5/23

In: 1281.651+/-0.336 χ^2/NDF : 838452.7/10

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1317.062+/-0.237 χ^2/NDF : 1969609.5/23

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -592.860+/-502.599 χ^2/NDF : 31.1/27

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -364.032+/-493.767 χ^2/NDF : 22.5/31

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

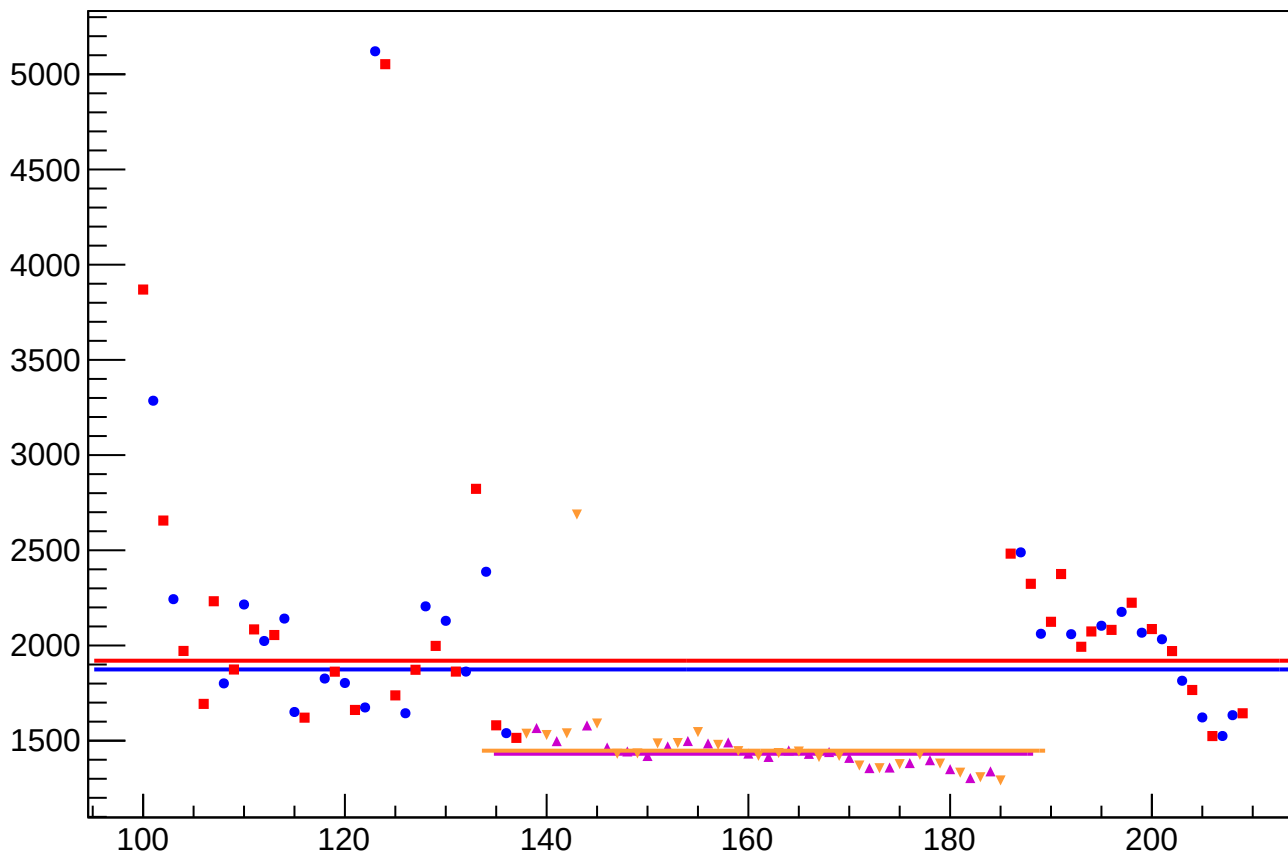
Right: -476.418+/-352.227 χ^2/NDF : 53.6/59

In: -262.139+/-283.685 χ^2/NDF : 51.2/50

Out: -767.617+/-279.751 χ^2/NDF : 52.0/56

All: -518.408+/-199.190 χ^2/NDF : 104.7/107

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1874.161 $\pm$ 0.355 χ^2 /NDF: 733848.9/27

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1920.106 $\pm$ 0.349 χ^2 /NDF: 805926.4/31

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

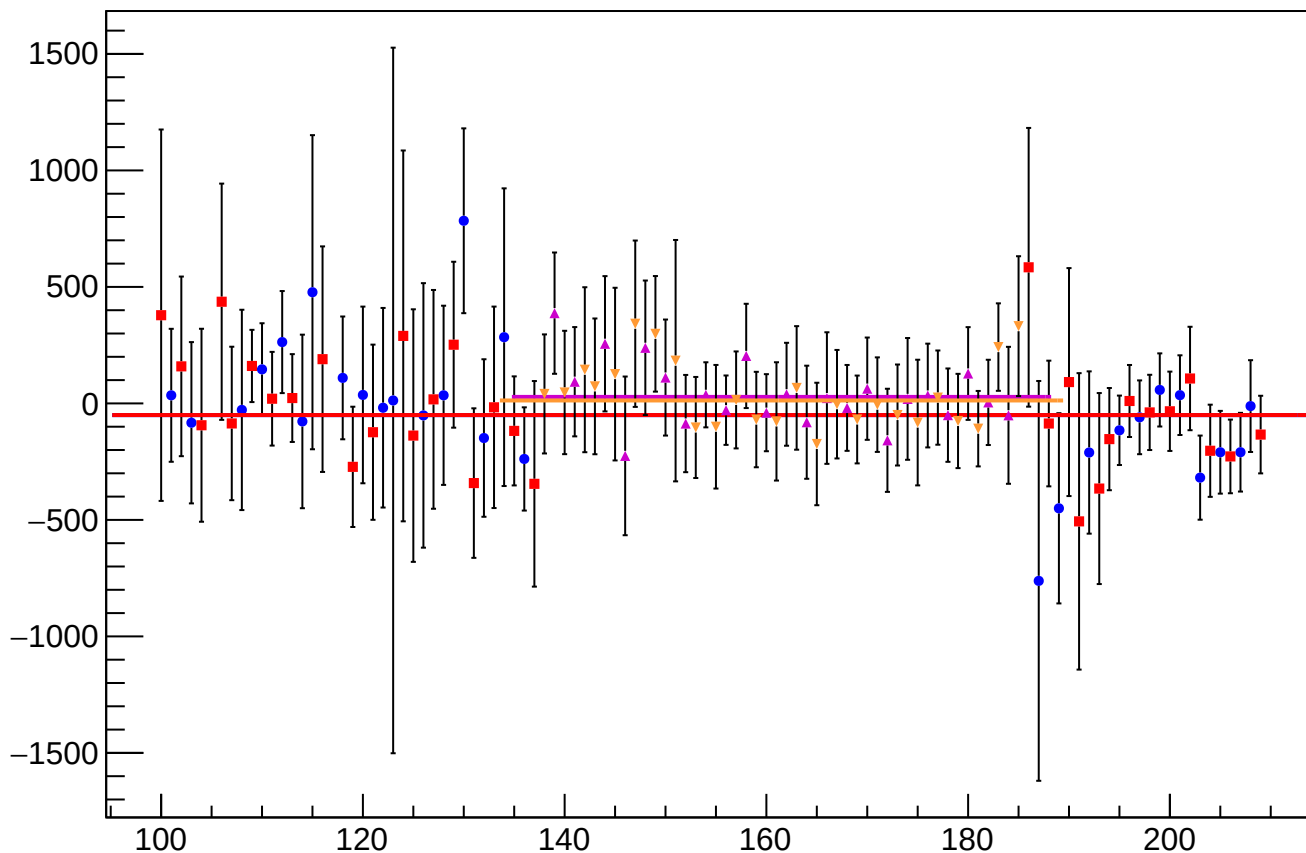
Right: 1897.541 $\pm$ 0.249 χ^2 /NDF: 1548280.0/59

In: 1572.497 $\pm$ 0.201 χ^2 /NDF: 1866351.1/50

Out: 1599.243 $\pm$ 0.198 χ^2 /NDF: 2469014.9/56

All: 1586.057 $\pm$ 0.141 χ^2 /NDF: 4344379.0/100

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -50.328 ± 46.860 χ^2/NDF : 16.5/27

Left Out: 12.618 ± 47.486 χ^2/NDF : 7.7/24

Right Out: -50.002 ± 45.152 χ^2/NDF : 12.3/31

Left In: 27.921 ± 44.523 χ^2/NDF : 6.5/22

Left: 20.762 ± 32.480 χ^2/NDF : 14.3/47

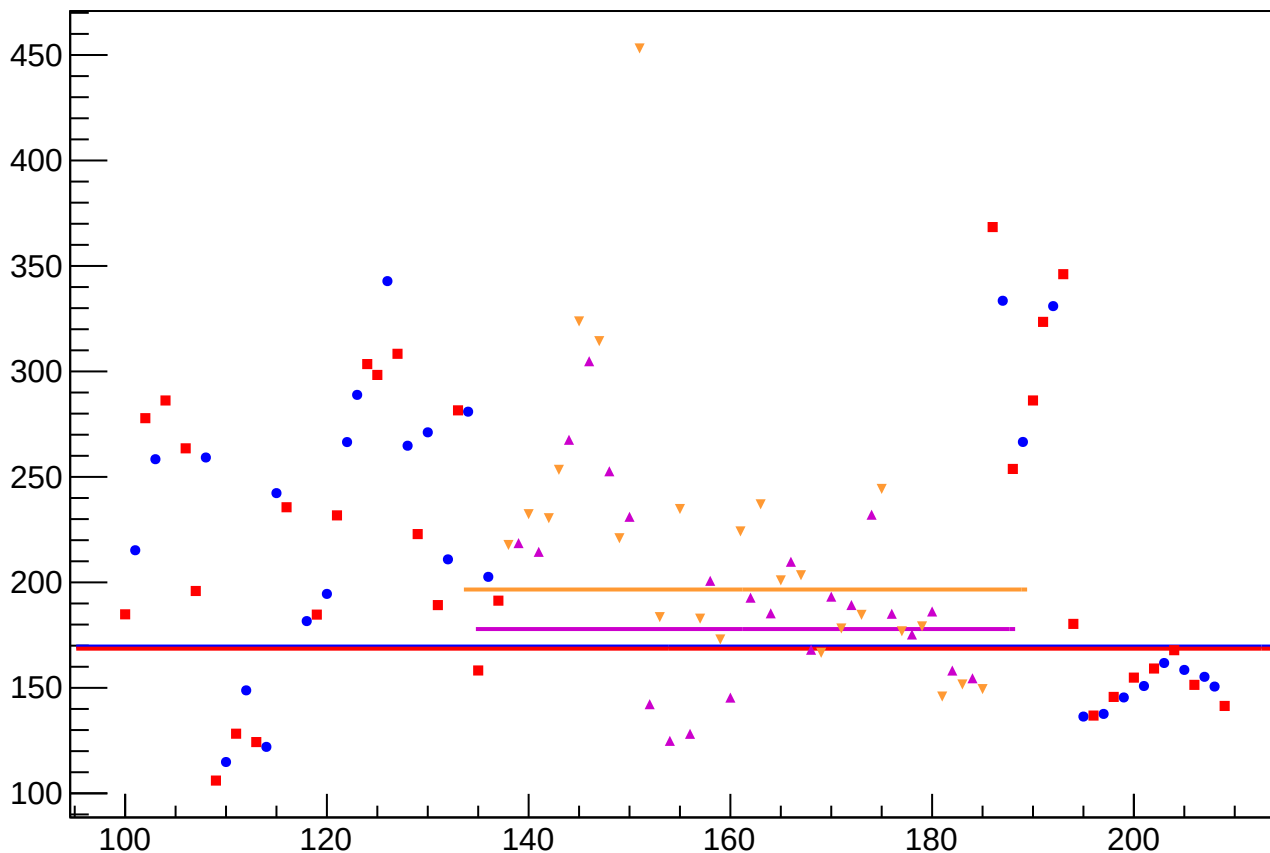
Right: -50.159 ± 32.514 χ^2/NDF : 28.8/59

In: -9.204 ± 32.277 χ^2/NDF : 24.5/50

Out: -20.268 ± 32.721 χ^2/NDF : 20.9/56

All: -14.661 ± 22.979 χ^2/NDF : 45.4/107

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.585 $\pm$ 0.033 χ^2 /NDF: 2111119.2/27

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 168.580 $\pm$ 0.032 χ^2 /NDF: 2831298.2/31

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

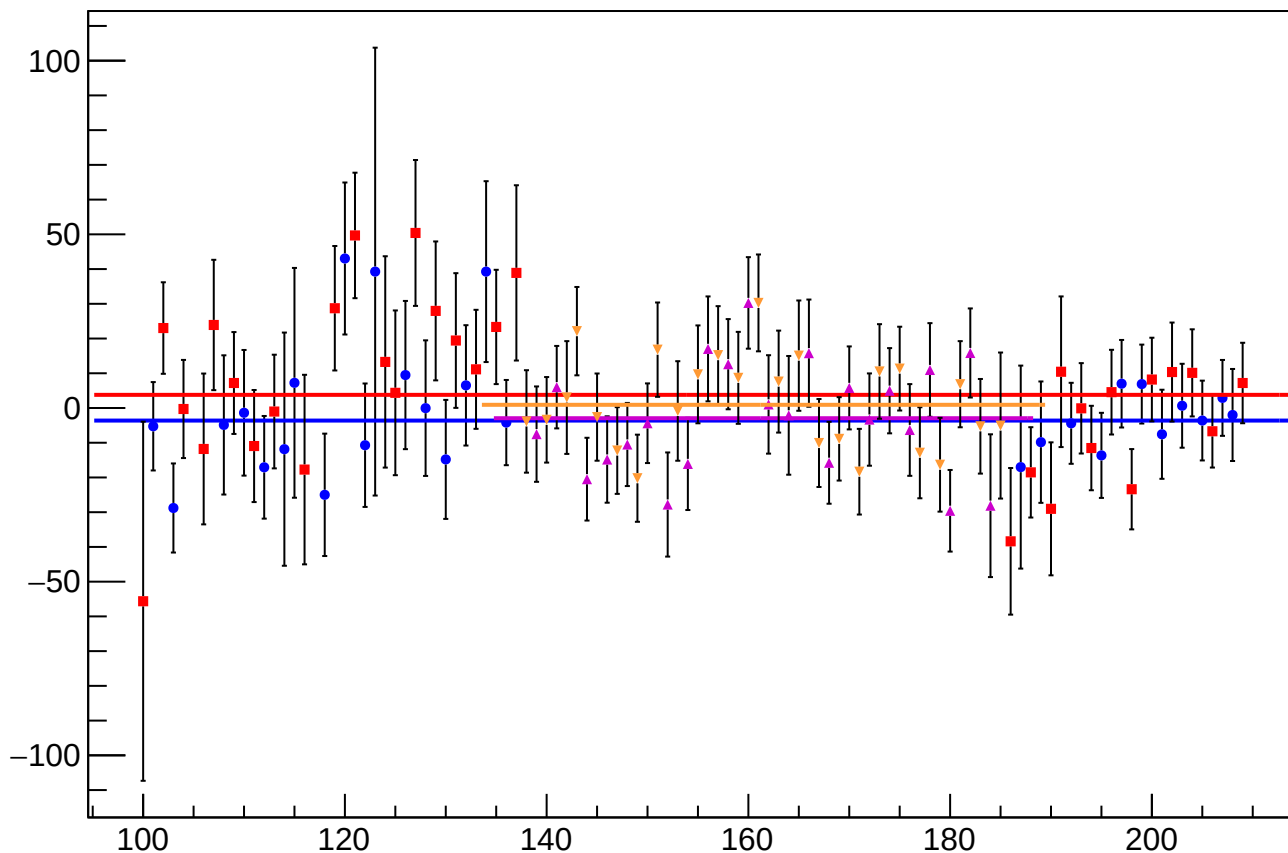
Right: 169.064 $\pm$ 0.023 χ^2 /NDF: 4942894.3/59

In: 173.943 $\pm$ 0.023 χ^2 /NDF:3788120.3/50

Out: 181.894 $\pm$ 0.023 χ^2 /NDF:4991020.1/56

All: 177.864 $\pm$ 0.016 χ^2 /NDF: 8838986.8/107

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.619 ± 2.891 $\chi^2/\text{NDF}: 18.6/27$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 3.787 ± 2.779 $\chi^2/\text{NDF}: 44.7/31$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

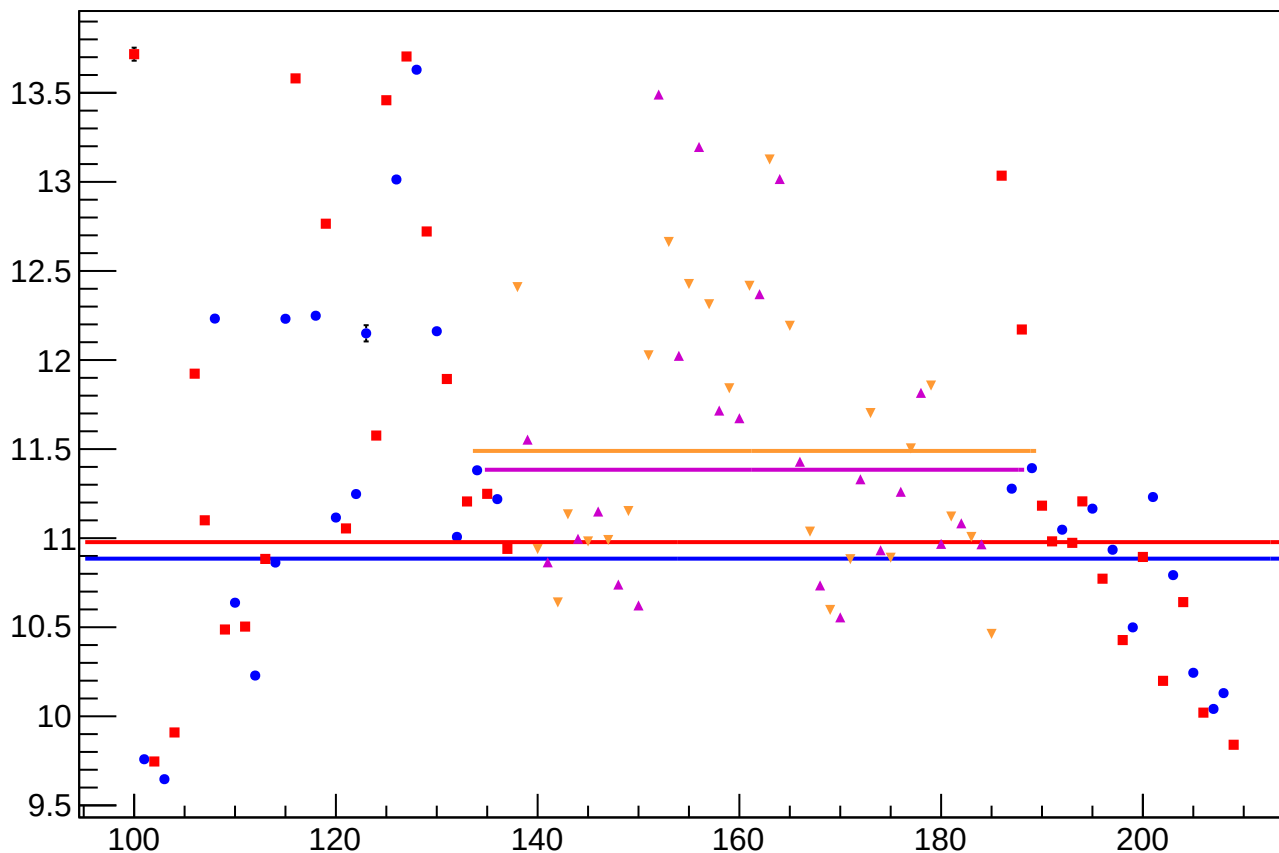
Right: 0.230 ± 2.003 $\chi^2/\text{NDF}: 66.7/59$

In: -3.263 ± 1.990 $\chi^2/\text{NDF}: 49.6/50$

Out: 2.310 ± 1.935 $\chi^2/\text{NDF}: 69.3/56$

All: -0.398 ± 1.387 $\chi^2/\text{NDF}: 122.9/107$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Left: 11.438 ± 0.001 $\chi^2/\text{NDF}: 283707.5/47$

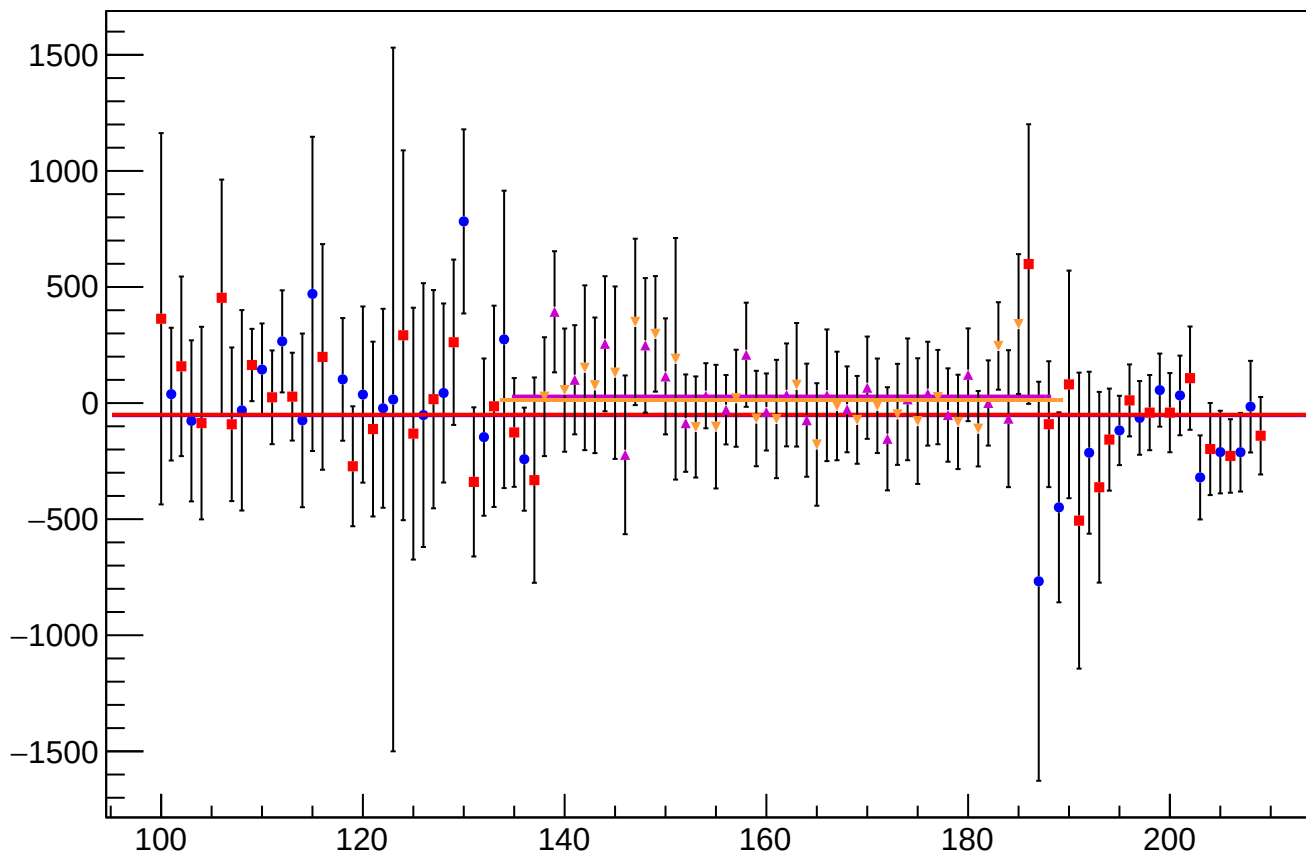
Right: 10.933 ± 0.001 $\chi^2/\text{NDF}: 413721.2/59$

In: 11.147 ± 0.001 $\chi^2/\text{NDF}: 350832.3/50$

Out: 11.242 ± 0.001 $\chi^2/\text{NDF}: 410334.8/56$

All: 11.196 ± 0.001 $\chi^2/\text{NDF}: 763463.5/107$

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -52.068 ± 46.978 $\chi^2/\text{NDF}: 16.4/27$

Left Out: 13.323 ± 47.662 $\chi^2/\text{NDF}: 7.9/24$

Right Out: -50.067 ± 45.272 $\chi^2/\text{NDF}: 12.5/31$

Left In: 28.050 ± 44.681 $\chi^2/\text{NDF}: 6.6/22$

Left: 21.161 ± 32.597 $\chi^2/\text{NDF}: 14.6/47$

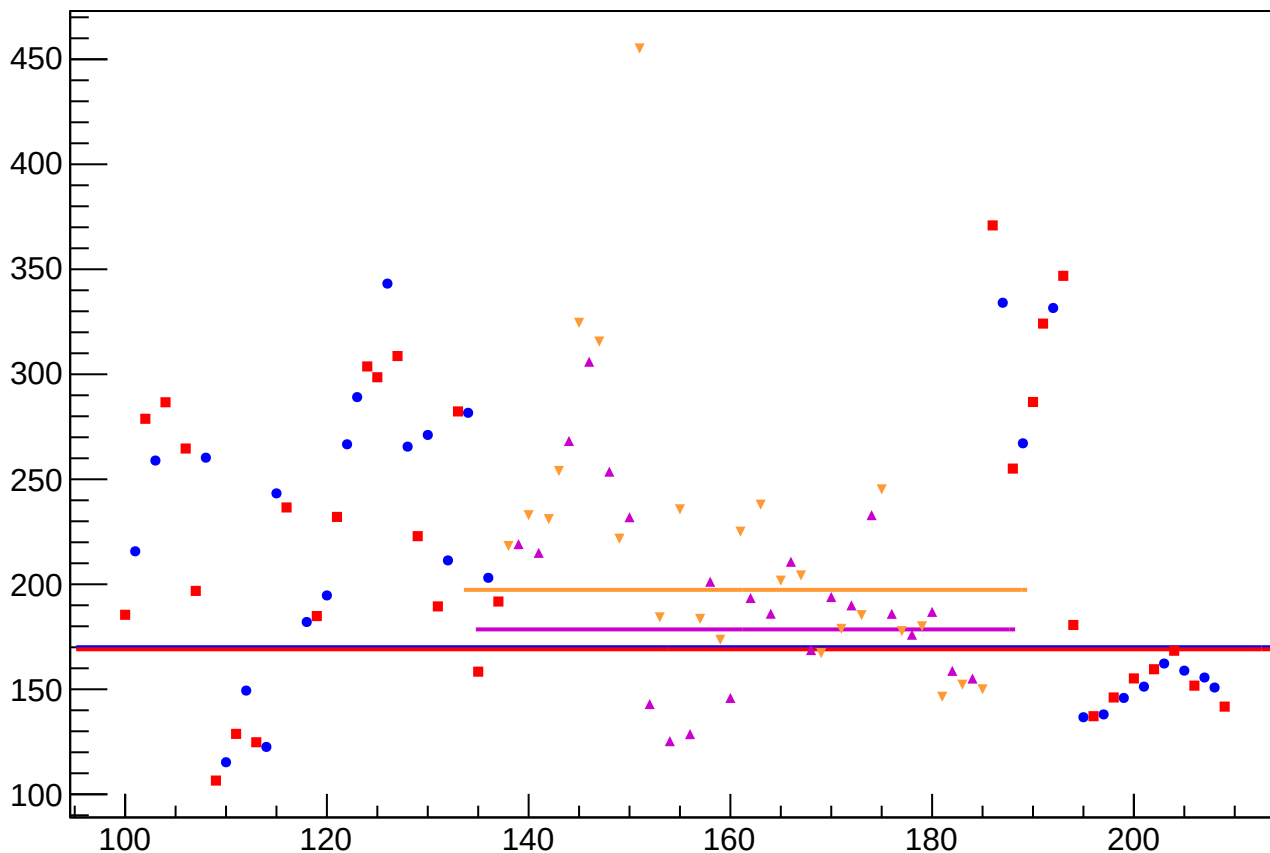
Right: -51.031 ± 32.599 $\chi^2/\text{NDF}: 28.9/59$

In: -10.003 ± 32.376 $\chi^2/\text{NDF}: 24.6/50$

Out: -20.001 ± 32.825 $\chi^2/\text{NDF}: 21.3/56$

All: -14.933 ± 23.050 $\chi^2/\text{NDF}: 45.9/107$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.026 $\pm$ 0.033 χ^2 /NDF: 2106340.2/27

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 169.040 $\pm$ 0.032 χ^2 /NDF: 2827996.6/31

Left In: 178.512 $\pm$ 0.032 χ^2 /NDF:1642304.1/22

Left: 187.326 $\pm$ 0.023 χ^2 /NDF: 3599509.2/47

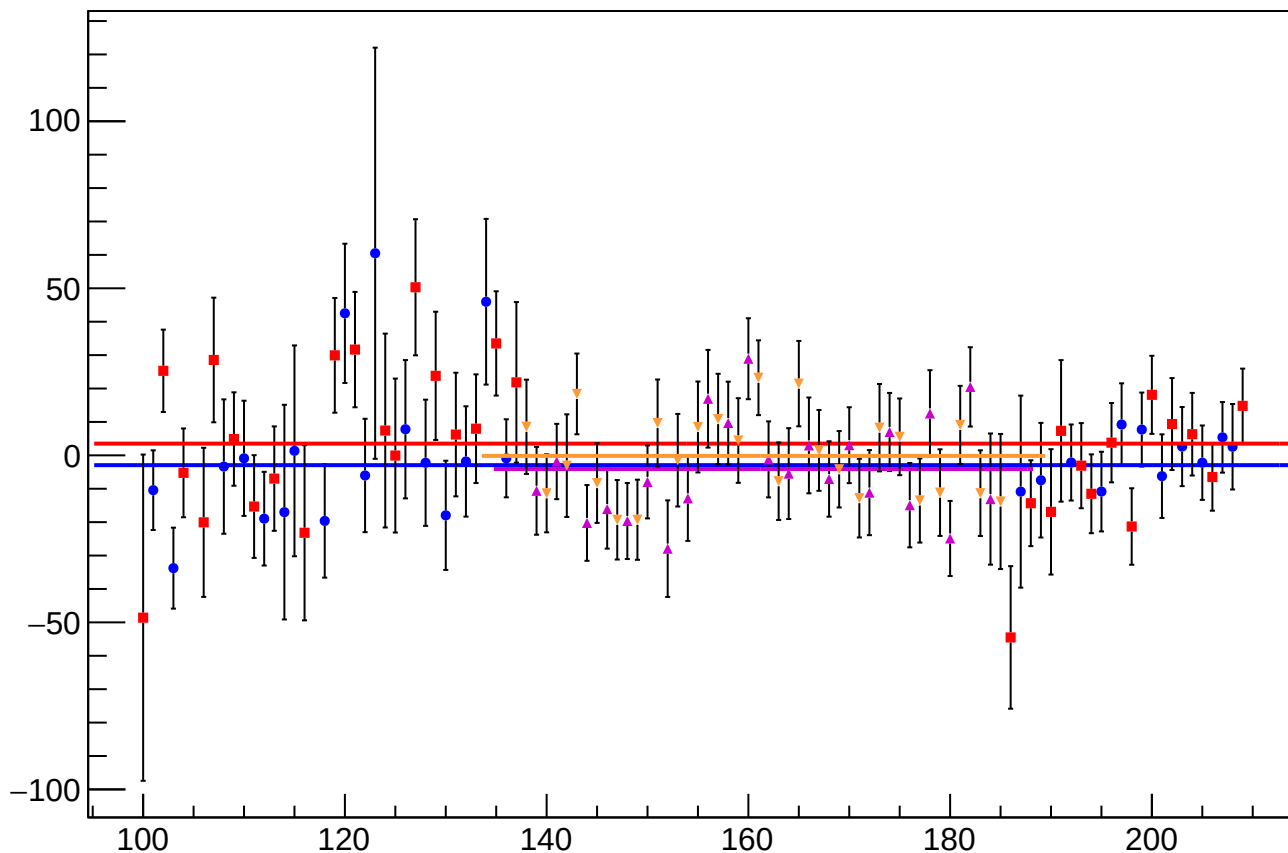
Right: 169.515 $\pm$ 0.023 χ^2 /NDF: 4934793.8/59

In: 174.482 $\pm$ 0.023 χ^2 /NDF:3782905.9/50

Out: 182.470 $\pm$ 0.023 χ^2 /NDF:4989888.2/56

All: 178.421 $\pm$ 0.016 χ^2 /NDF: 8832836.1/107

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.941 ± 2.790 $\chi^2/\text{NDF}: 23.8/27$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 3.506 ± 2.689 $\chi^2/\text{NDF}: 47.4/31$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

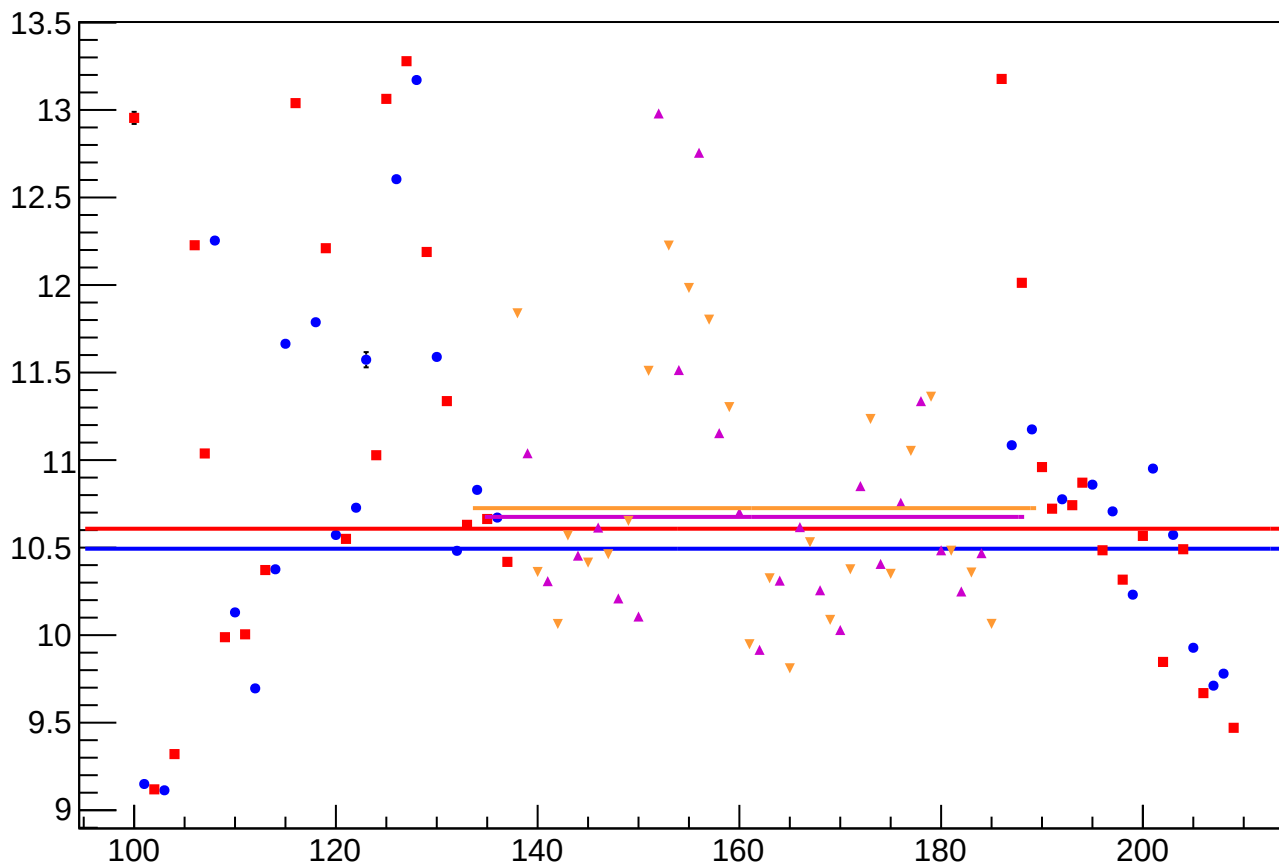
Right: 0.402 ± 1.936 $\chi^2/\text{NDF}: 74.0/59$

In: -3.570 ± 1.893 $\chi^2/\text{NDF}: 55.5/50$

Out: 1.549 ± 1.839 $\chi^2/\text{NDF}: 72.7/56$

All: -0.936 ± 1.319 $\chi^2/\text{NDF}: 132.0/107$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.494 $\pm$ 0.002 χ^2 /NDF: 194177.6/27

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.608 $\pm$ 0.002 χ^2 /NDF: 281420.6/31

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

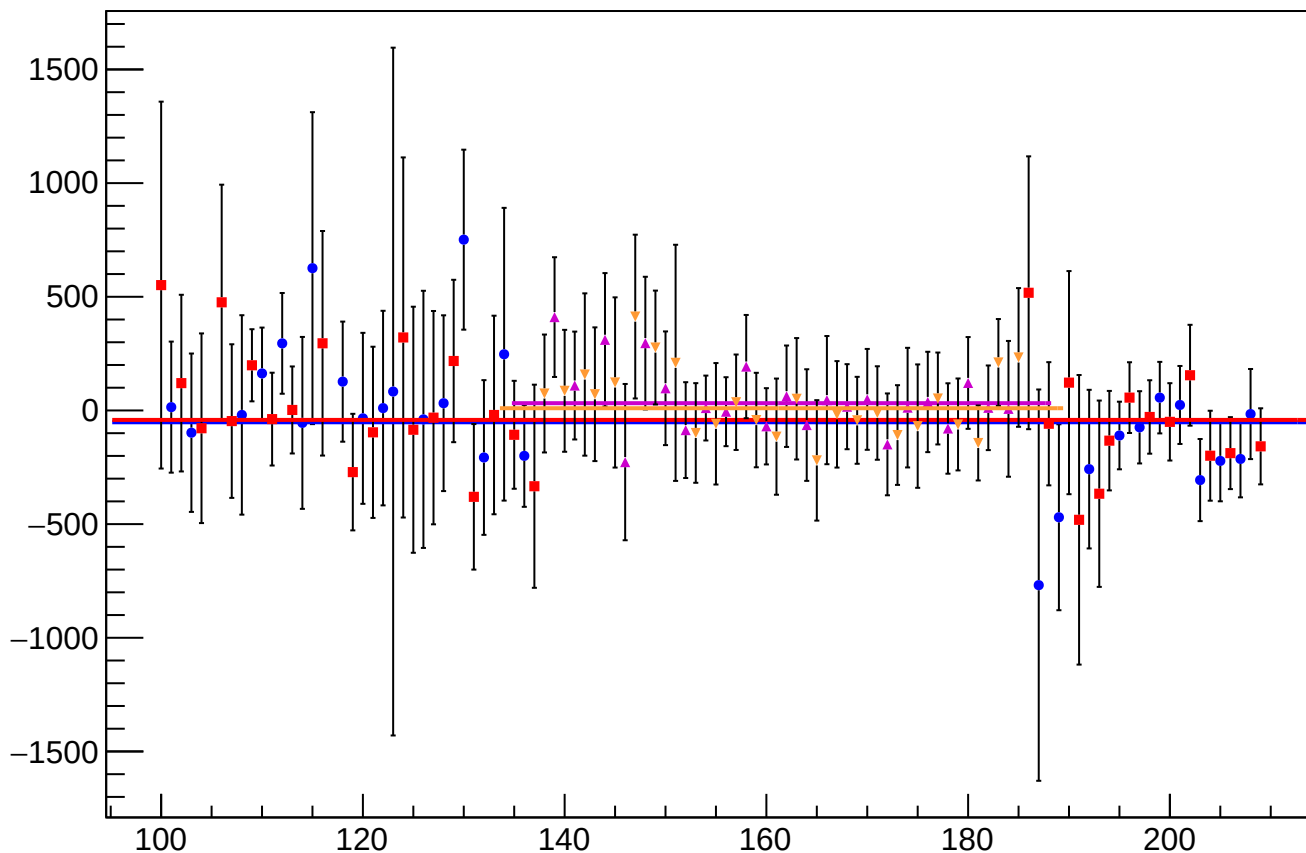
Right: 10.553 $\pm$ 0.001 χ^2 /NDF: 477337.0/59

In: 10.592 $\pm$ 0.001 χ^2 /NDF:344695.8/50

Out: 10.670 $\pm$ 0.001 χ^2 /NDF:415626.2/56

All: 10.632 $\pm$ 0.001 χ^2 /NDF: 762102.4/107

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -51.998 ± 47.057 $\chi^2/\text{NDF}: 16.9/27$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -41.617 ± 45.431 $\chi^2/\text{NDF}: 13.1/31$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

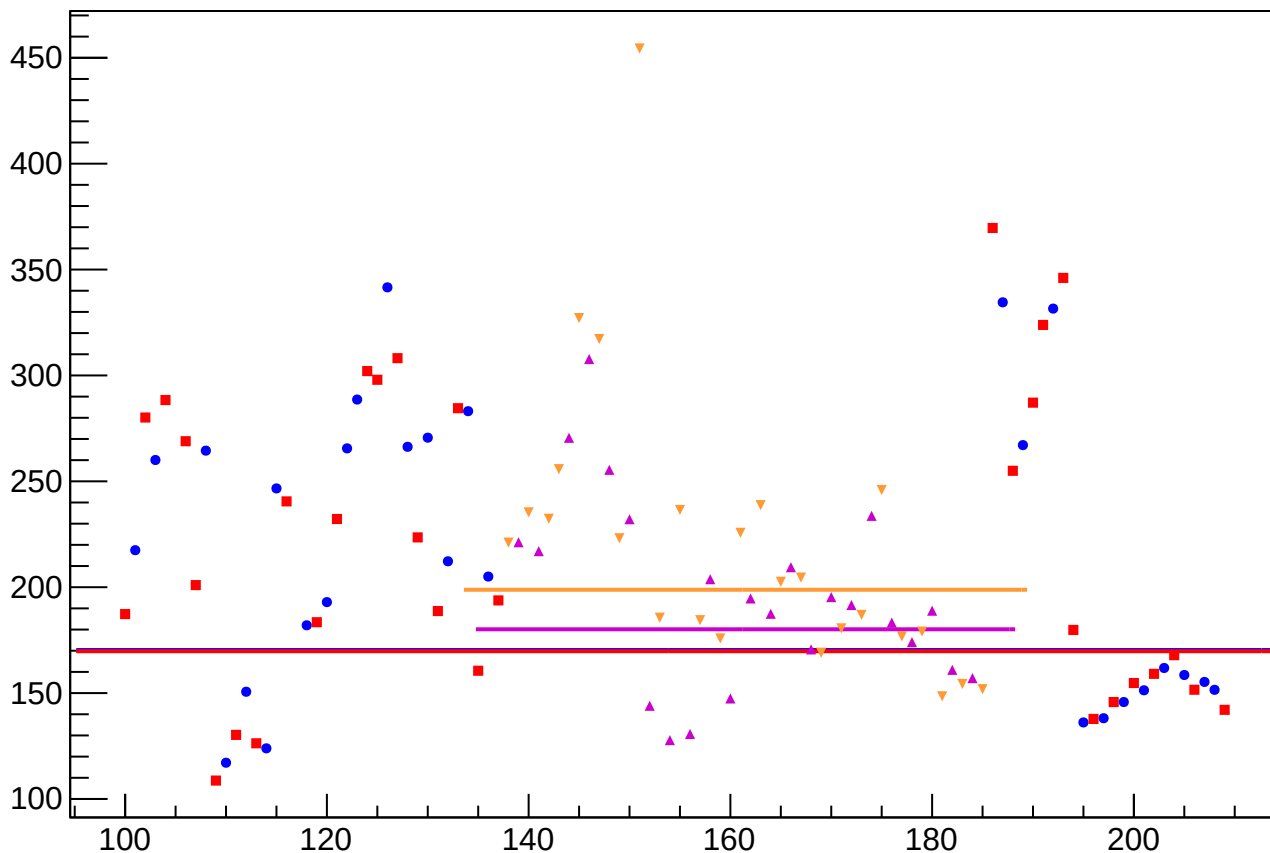
Right: -46.625 ± 32.684 $\chi^2/\text{NDF}: 30.1/59$

In: -8.164 ± 32.537 $\chi^2/\text{NDF}: 25.8/50$

Out: -17.309 ± 32.988 $\chi^2/\text{NDF}: 21.3/56$

All: -12.674 ± 23.165 $\chi^2/\text{NDF}: 47.1/107$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.314 $\pm$ 0.033 χ^2 /NDF: 2105493.5/27

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 169.780 $\pm$ 0.032 χ^2 /NDF: 2787525.7/31

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

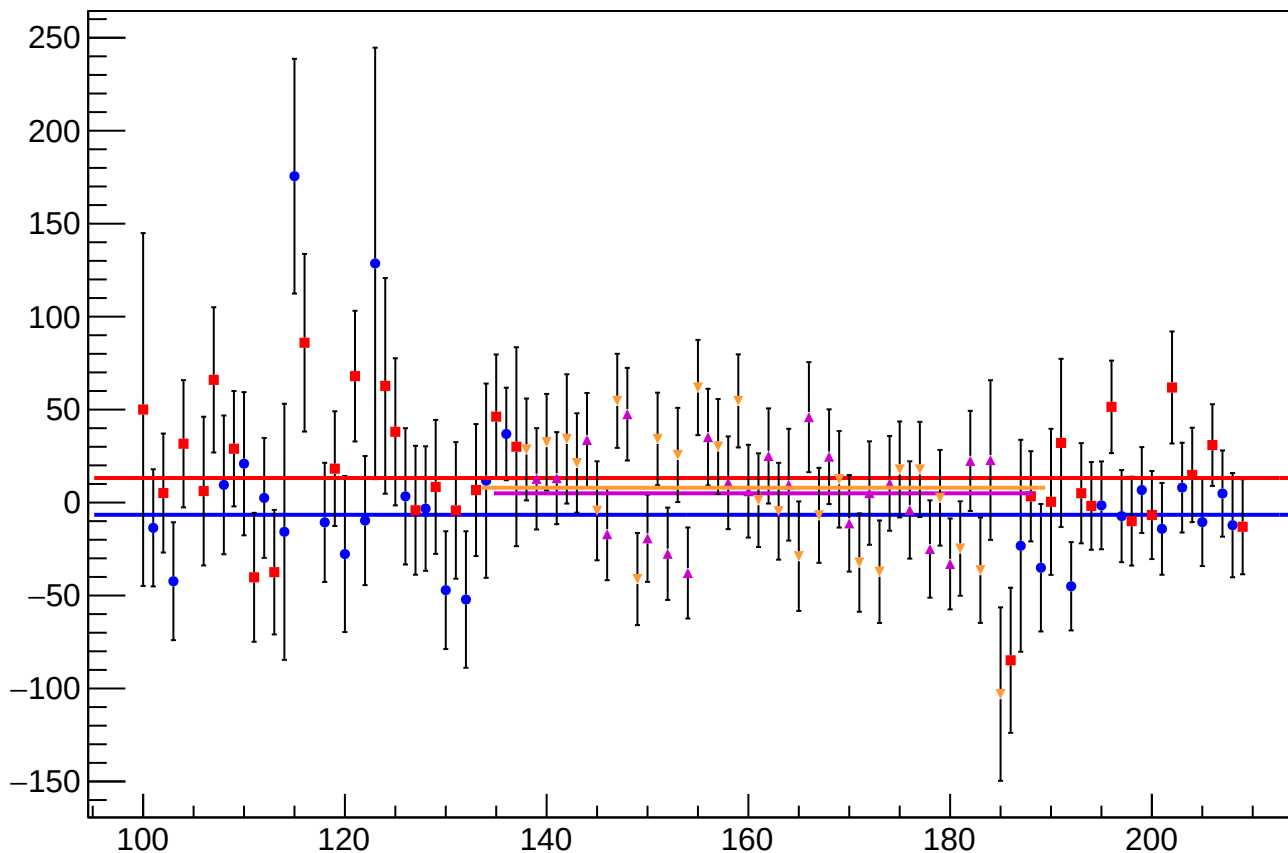
Right: 170.038 $\pm$ 0.023 χ^2 /NDF: 4893152.7/59

In: 175.434 $\pm$ 0.023 χ^2 /NDF:3744689.6/50

Out: 183.499 $\pm$ 0.023 χ^2 /NDF:4936439.0/56

All: 179.411 $\pm$ 0.016 χ^2 /NDF: 8741730.7/107

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.582 ± 5.859 $\chi^2/\text{NDF}: 23.1/27$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 13.221 ± 5.619 $\chi^2/\text{NDF}: 30.4/31$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

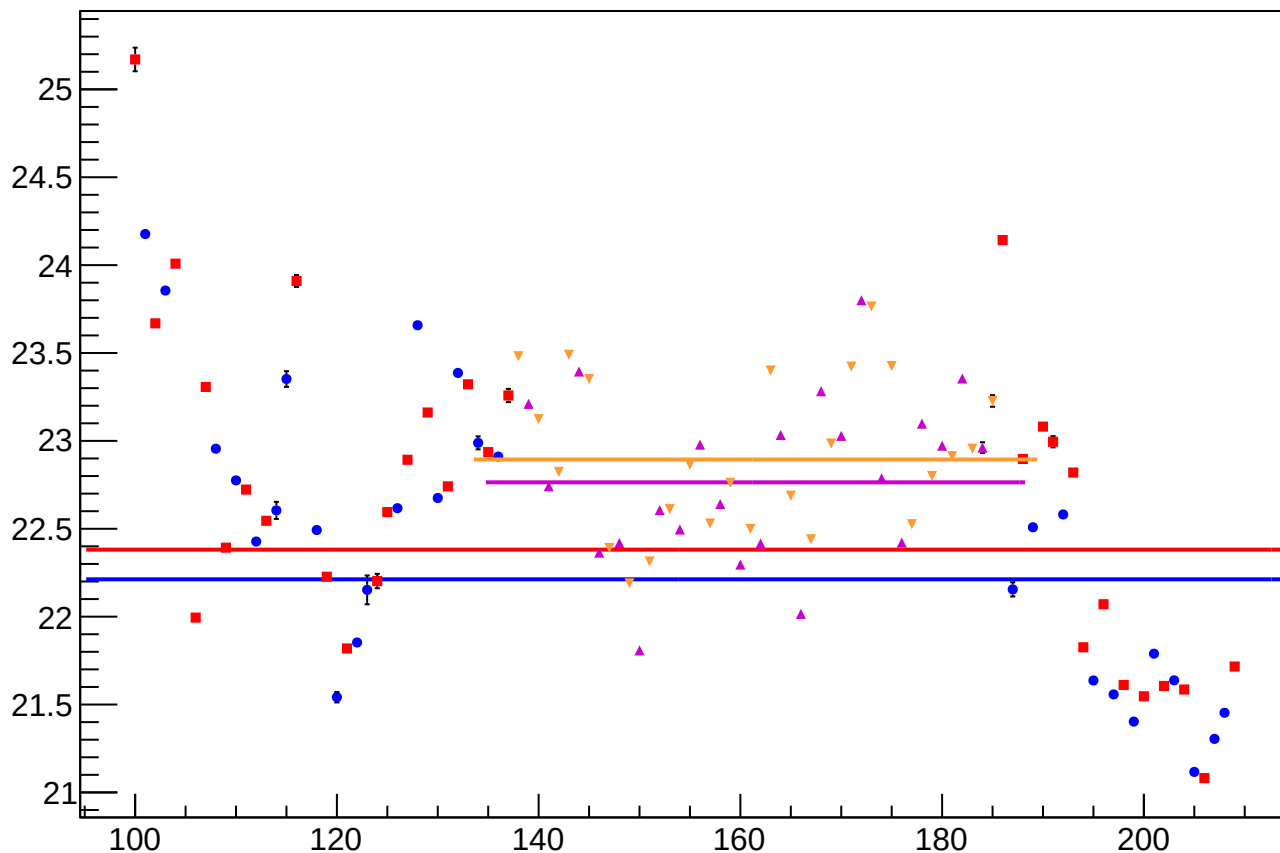
Right: 3.733 ± 4.055 $\chi^2/\text{NDF}: 59.4/59$

In: -0.382 ± 3.988 $\chi^2/\text{NDF}: 45.6/50$

Out: 10.466 ± 3.866 $\chi^2/\text{NDF}: 68.3/56$

All: 5.211 ± 2.776 $\chi^2/\text{NDF}: 117.7/107$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.212 $\pm$ 0.004 χ^2 /NDF: 40750.4/27

Left Out: 22.894 $\pm$ 0.004 χ^2 /NDF:13070.5/24

Right Out: 22.381 $\pm$ 0.004 χ^2 /NDF: 41920.3/31

Left In: 22.764 $\pm$ 0.004 χ^2 /NDF:14665.7/22

Left: 22.831 $\pm$ 0.003 χ^2 /NDF: 28317.3/47

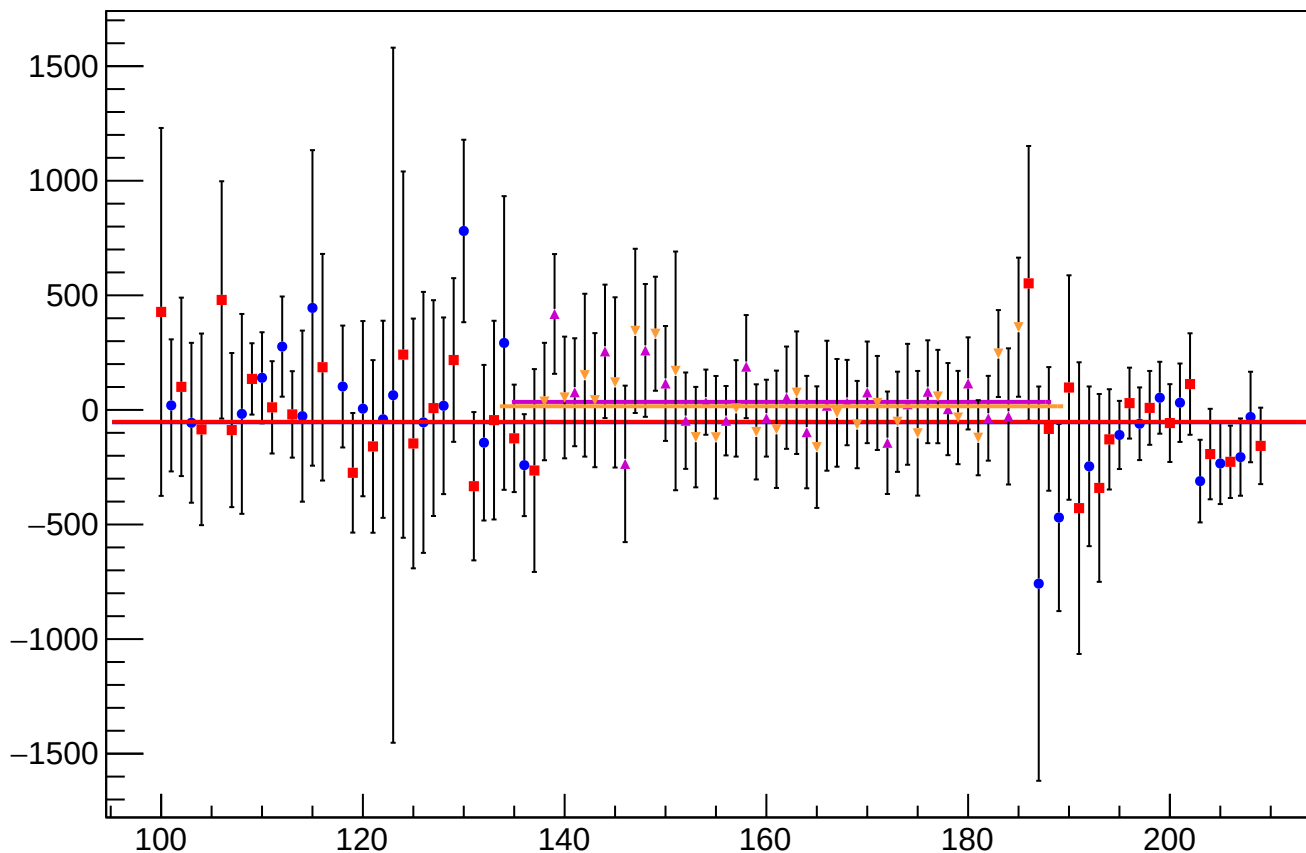
Right: 22.300 $\pm$ 0.003 χ^2 /NDF: 83536.1/59

In: 22.509 $\pm$ 0.003 χ^2 /NDF:64940.0/50

Out: 22.651 $\pm$ 0.003 χ^2 /NDF:63767.3/56

All: 22.582 $\pm$ 0.002 χ^2 /NDF: 130029.1/107

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.899 $\pm$ 46.920 χ^2 /NDF: 16.5/27

Left Out: 15.904 $\pm$ 47.898 χ^2 /NDF:8.4/24

Right Out: -51.895 $\pm$ 45.229 χ^2 /NDF: 11.2/31

Left In: 34.919 $\pm$ 44.971 χ^2 /NDF:6.6/22

Left: 26.010 $\pm$ 32.785 χ^2 /NDF: 15.1/47

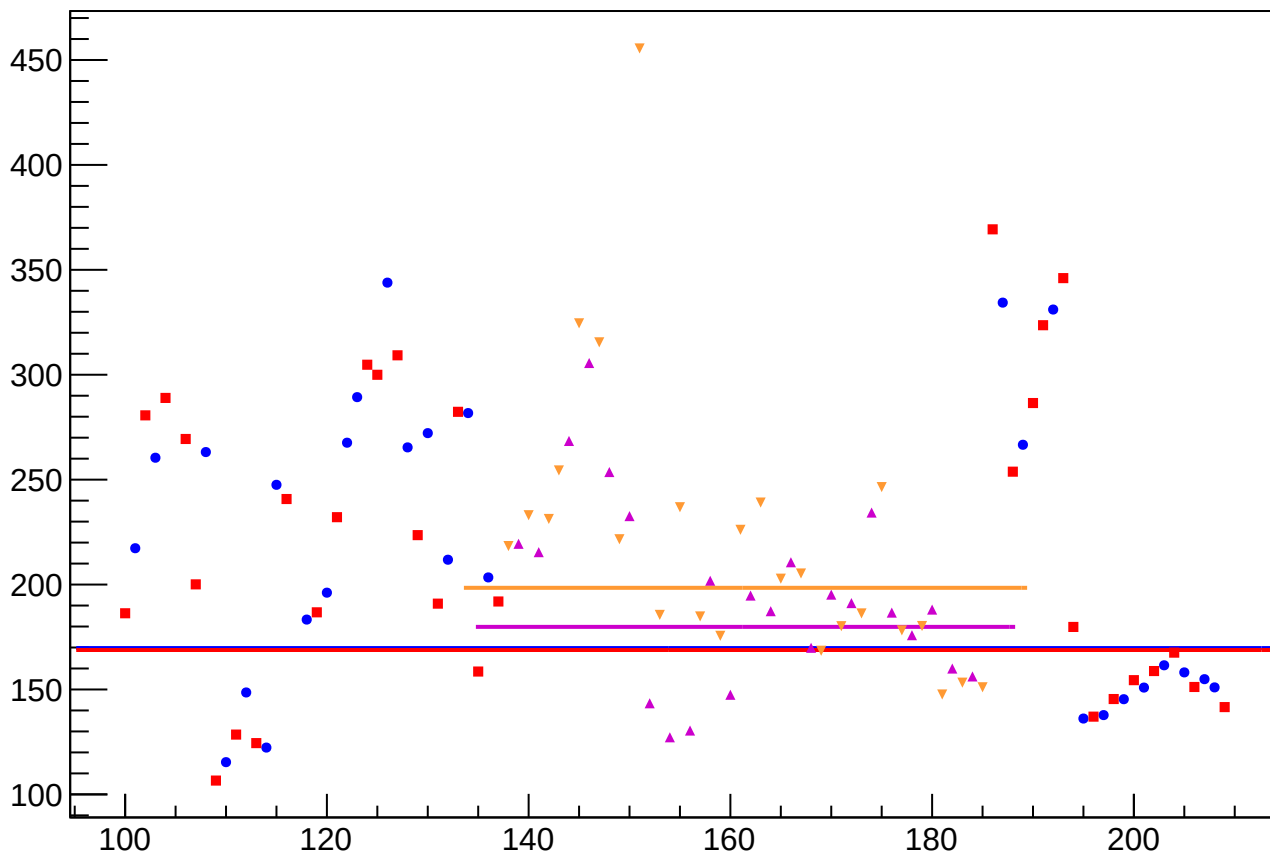
Right: -52.860 $\pm$ 32.563 χ^2 /NDF: 27.7/59

In: -7.607 $\pm$ 32.466 χ^2 /NDF:24.9/50

Out: -19.938 $\pm$ 32.885 χ^2 /NDF:20.7/56

All: -13.693 $\pm$ 23.104 χ^2 /NDF: 45.7/107

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.732 $\pm$ 0.033 χ^2 /NDF: 2135839.0/27

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 168.813 $\pm$ 0.032 χ^2 /NDF: 2855329.1/31

Left In: 179.839 $\pm$ 0.032 χ^2 /NDF:1588834.3/22

Left: 188.558 $\pm$ 0.023 χ^2 /NDF: 3510745.5/47

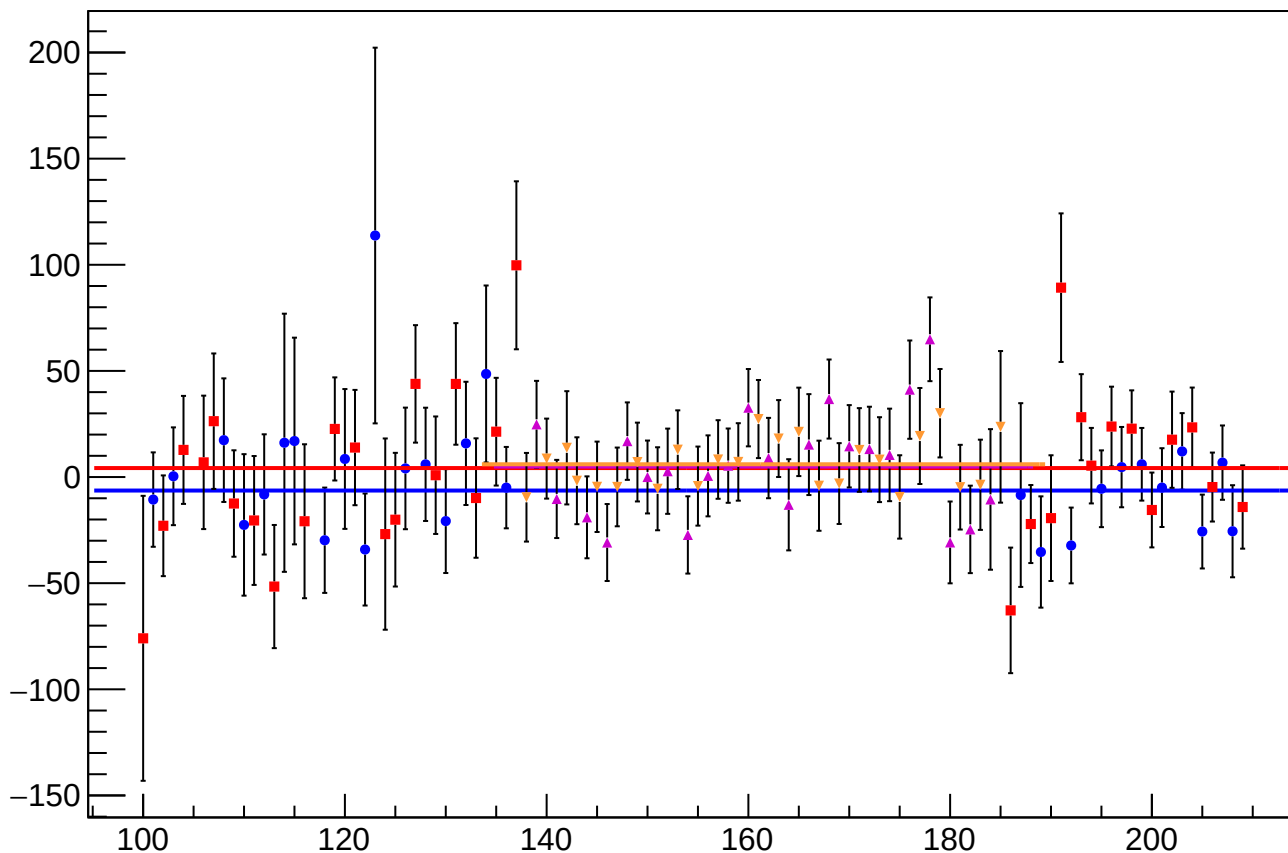
Right: 169.256 $\pm$ 0.023 χ^2 /NDF: 4991565.7/59

In: 175.000 $\pm$ 0.023 χ^2 /NDF:3773040.2/50

Out: 182.783 $\pm$ 0.023 χ^2 /NDF:5021528.4/56

All: 178.841 $\pm$ 0.016 χ^2 /NDF: 8851296.3/107

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.359 ± 4.477 χ^2/NDF : 16.3/27

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 4.232 ± 4.305 χ^2/NDF : 42.0/31

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

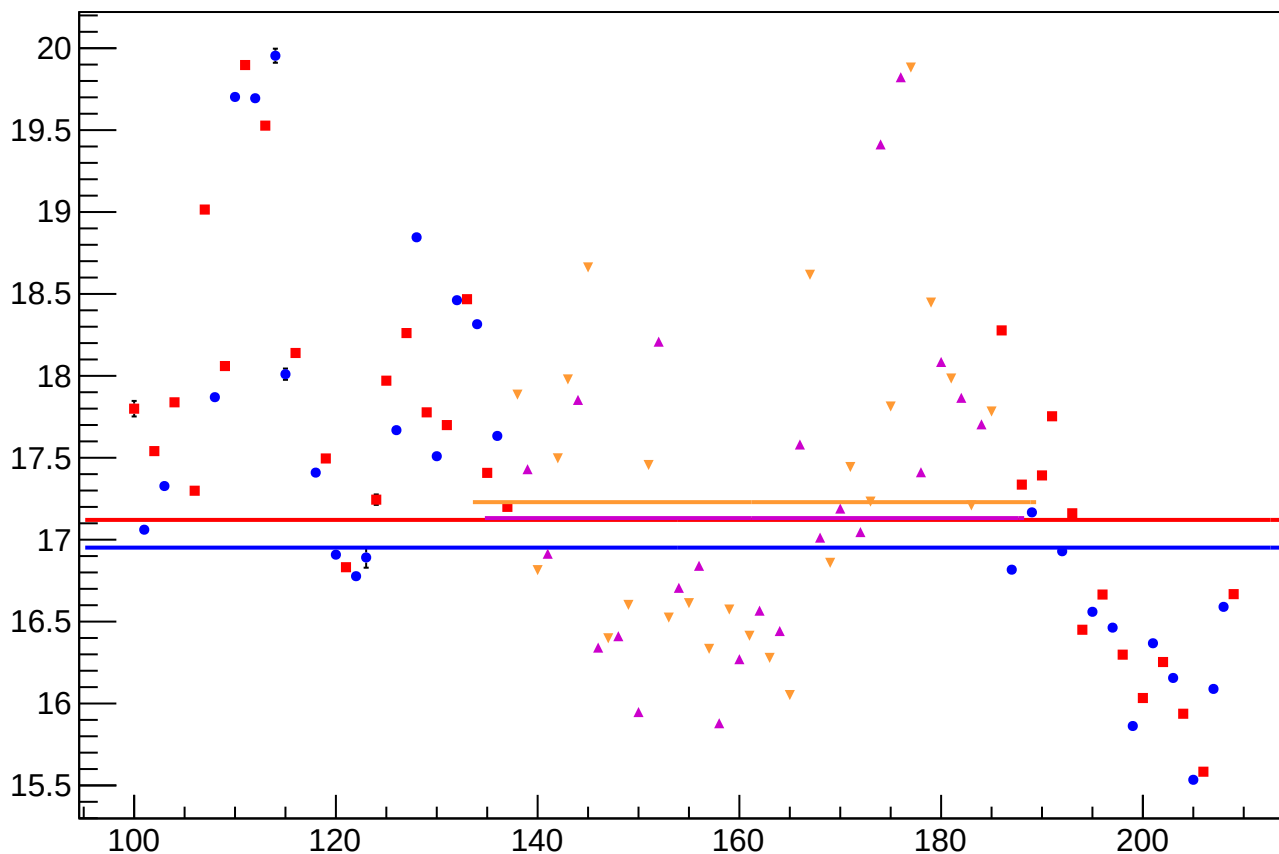
Right: -0.856 ± 3.103 χ^2/NDF : 61.2/59

In: -0.222 ± 3.027 χ^2/NDF : 54.6/50

Out: 5.188 ± 2.937 χ^2/NDF : 50.2/56

All: 2.564 ± 2.108 χ^2/NDF : 106.5/107

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.952 ± 0.003 $\chi^2/\text{NDF}: 99087.1/27$

Left Out: 17.229 ± 0.003 $\chi^2/\text{NDF}: 98624.7/24$

Right Out: 17.121 ± 0.003 $\chi^2/\text{NDF}: 106573.3/31$

Left In: 17.132 ± 0.003 $\chi^2/\text{NDF}: 103997.3/22$

Left: 17.182 ± 0.002 $\chi^2/\text{NDF}: 203195.4/47$

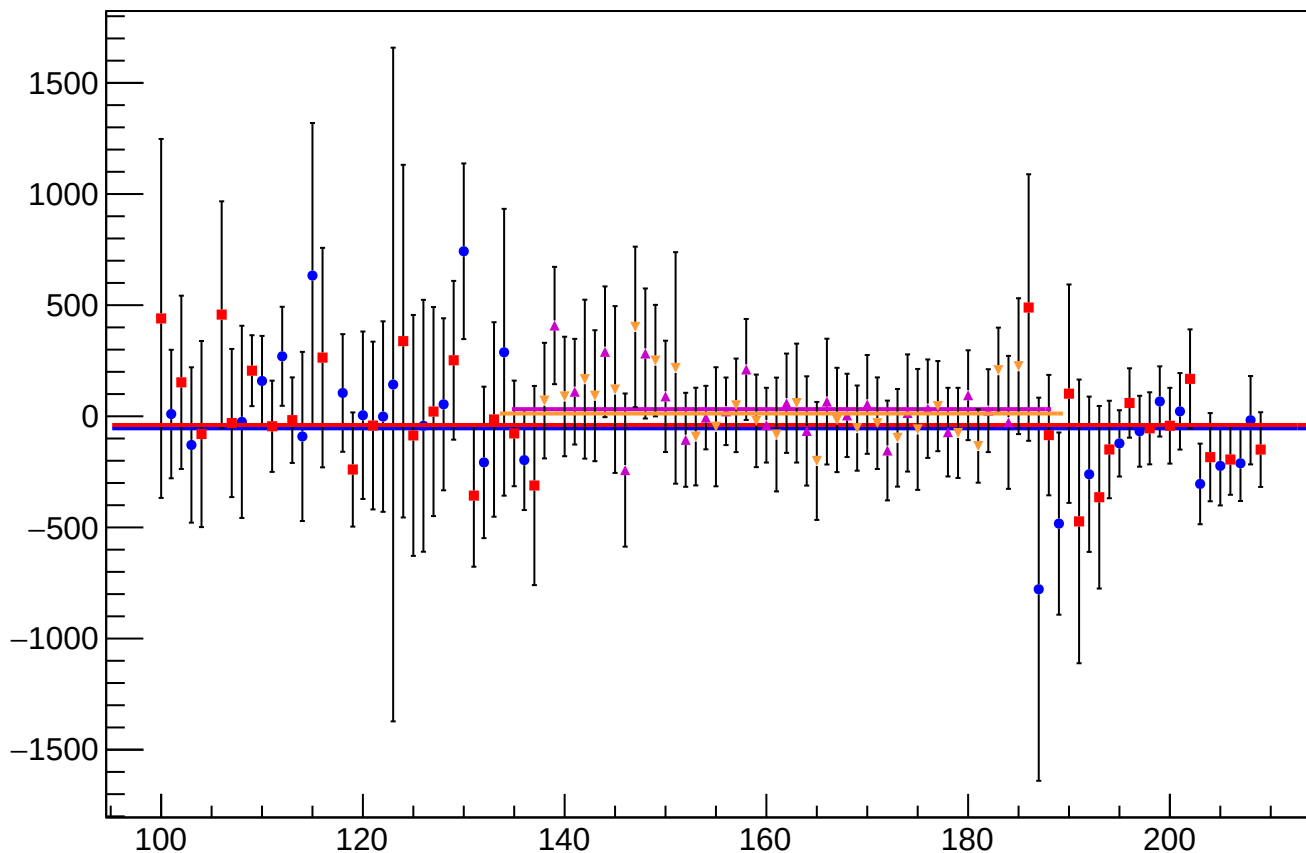
Right: 17.039 ± 0.002 $\chi^2/\text{NDF}: 207143.6/59$

In: 17.049 ± 0.002 $\chi^2/\text{NDF}: 204844.8/50$

Out: 17.179 ± 0.002 $\chi^2/\text{NDF}: 205875.6/56$

All: 17.116 ± 0.001 $\chi^2/\text{NDF}: 412597.7/107$

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -54.159 ± 47.199 χ^2/NDF : 16.6/27

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -39.200 ± 45.549 χ^2/NDF : 12.6/31

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

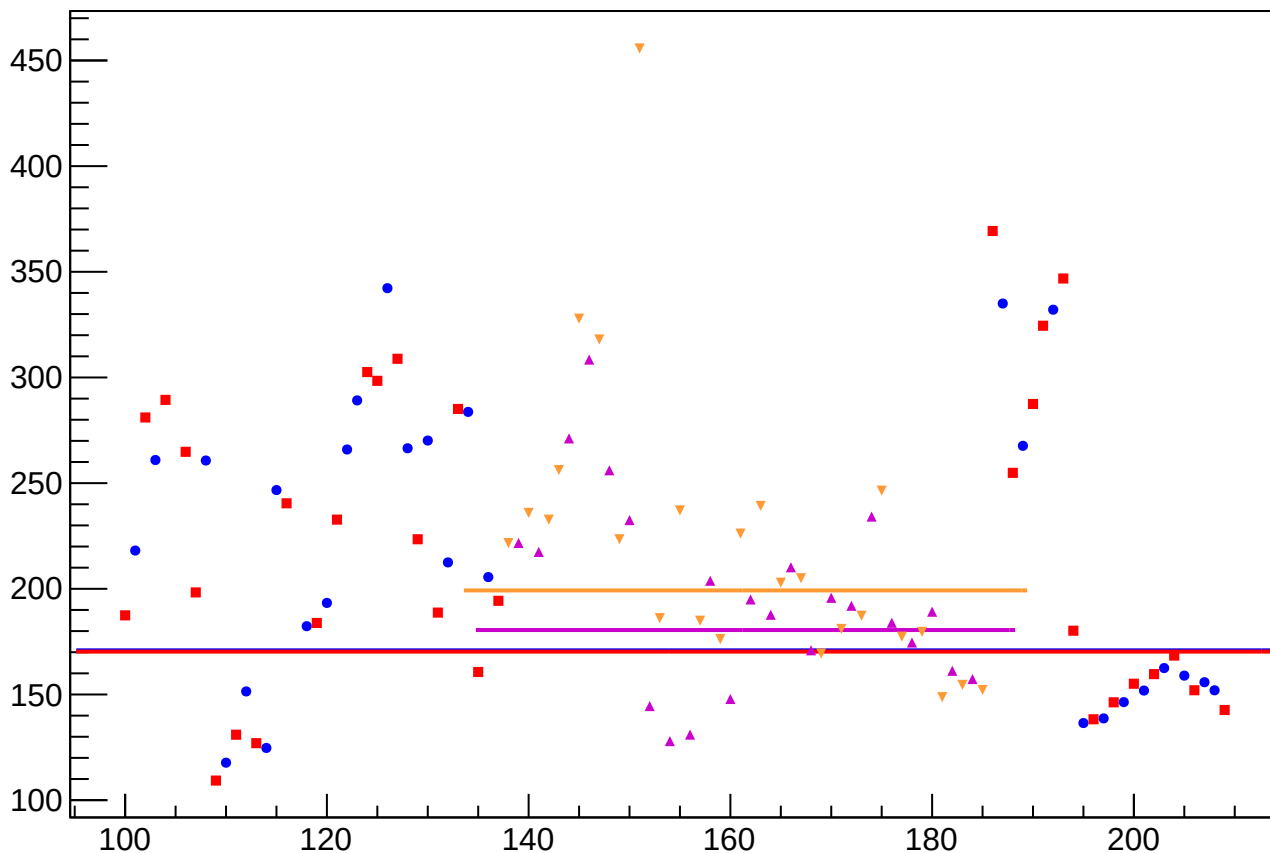
Right: -46.414 ± 32.776 χ^2/NDF : 29.3/59

In: -9.068 ± 32.619 χ^2/NDF : 25.3/50

Out: -14.762 ± 33.069 χ^2/NDF : 20.1/56

All: -11.876 ± 23.222 χ^2/NDF : 45.4/107

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.884 $\pm$ 0.033 χ^2 /NDF: 2087542.7/27

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 170.293 $\pm$ 0.032 χ^2 /NDF: 2762942.2/31

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

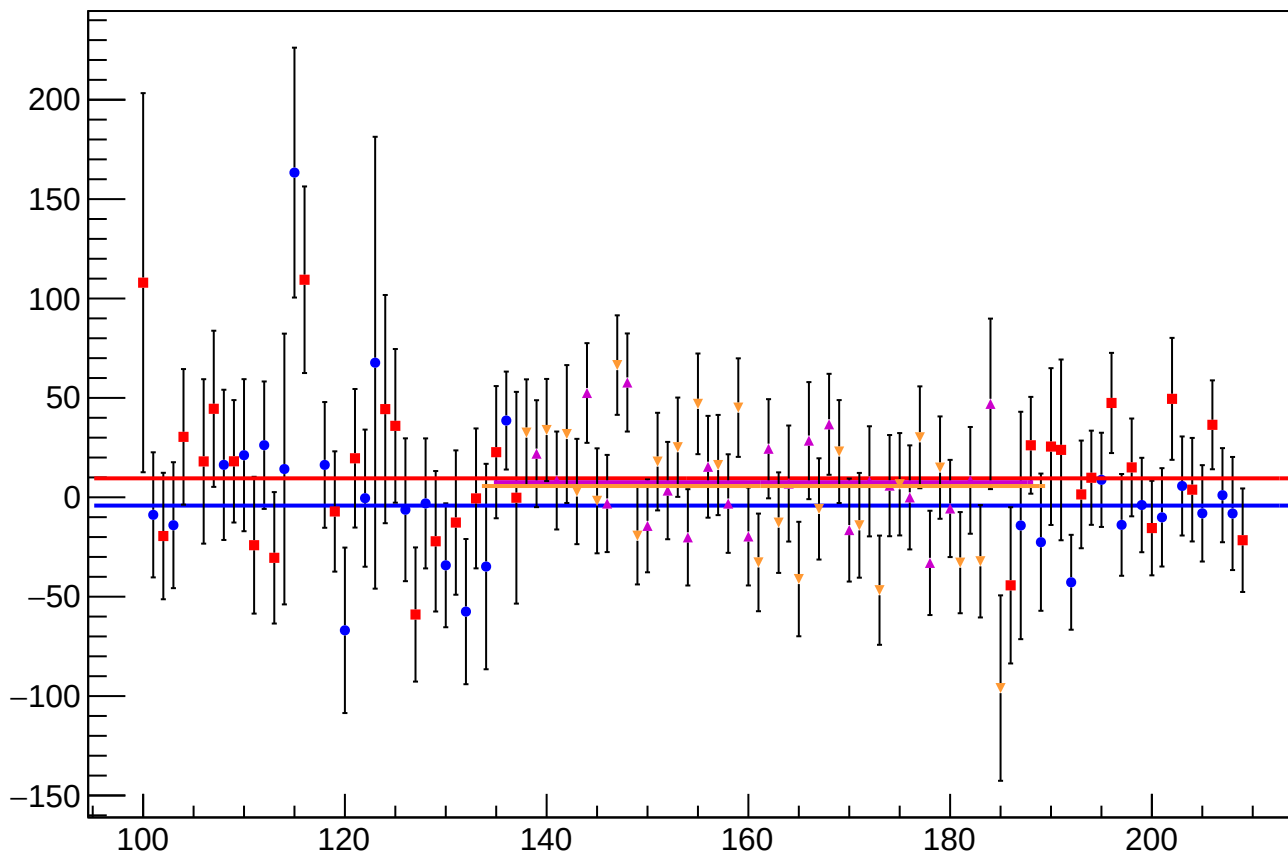
Right: 170.578 $\pm$ 0.023 χ^2 /NDF: 4850646.9/59

In: 175.904 $\pm$ 0.023 χ^2 /NDF:3724639.0/50

Out: 183.984 $\pm$ 0.023 χ^2 /NDF:4909066.9/56

All: 179.888 $\pm$ 0.016 χ^2 /NDF: 8694222.5/107

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.169 ± 5.894 χ^2/NDF : 22.1/27

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 9.536 ± 5.638 χ^2/NDF : 27.7/31

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

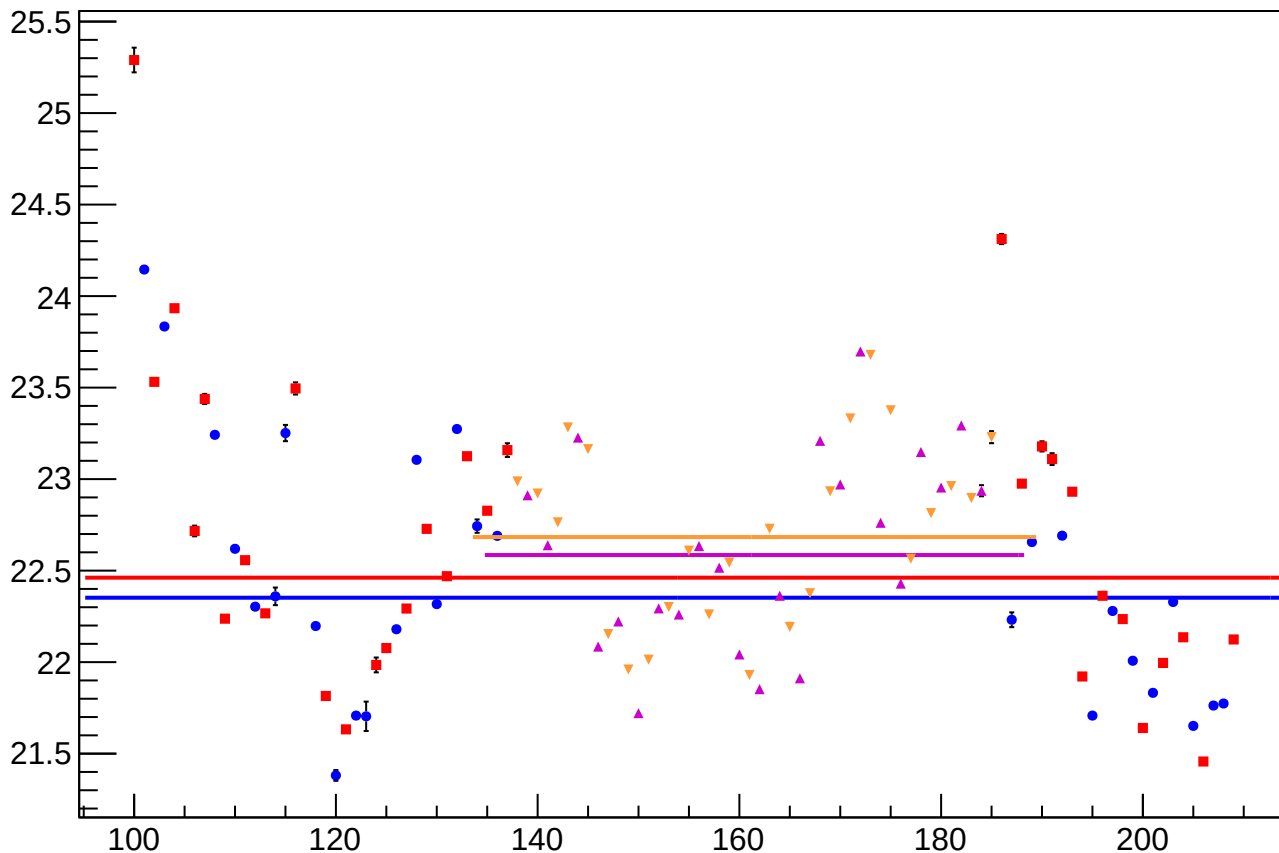
Right: 2.988 ± 4.074 χ^2/NDF : 52.6/59

In: 2.224 ± 3.982 χ^2/NDF : 42.6/50

Out: 7.477 ± 3.853 χ^2/NDF : 64.3/56

All: 4.937 ± 2.769 χ^2/NDF : 107.8/107

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.352+/-0.004 χ^2 /NDF: 24368.2/27

Left Out: 22.683+/-0.004 χ^2 /NDF:16318.1/24

Right Out: 22.461+/-0.004 χ^2 /NDF: 29825.9/31

Left In: 22.585+/-0.004 χ^2 /NDF:18087.5/22

Left: 22.635+/-0.003 χ^2 /NDF: 34743.7/47

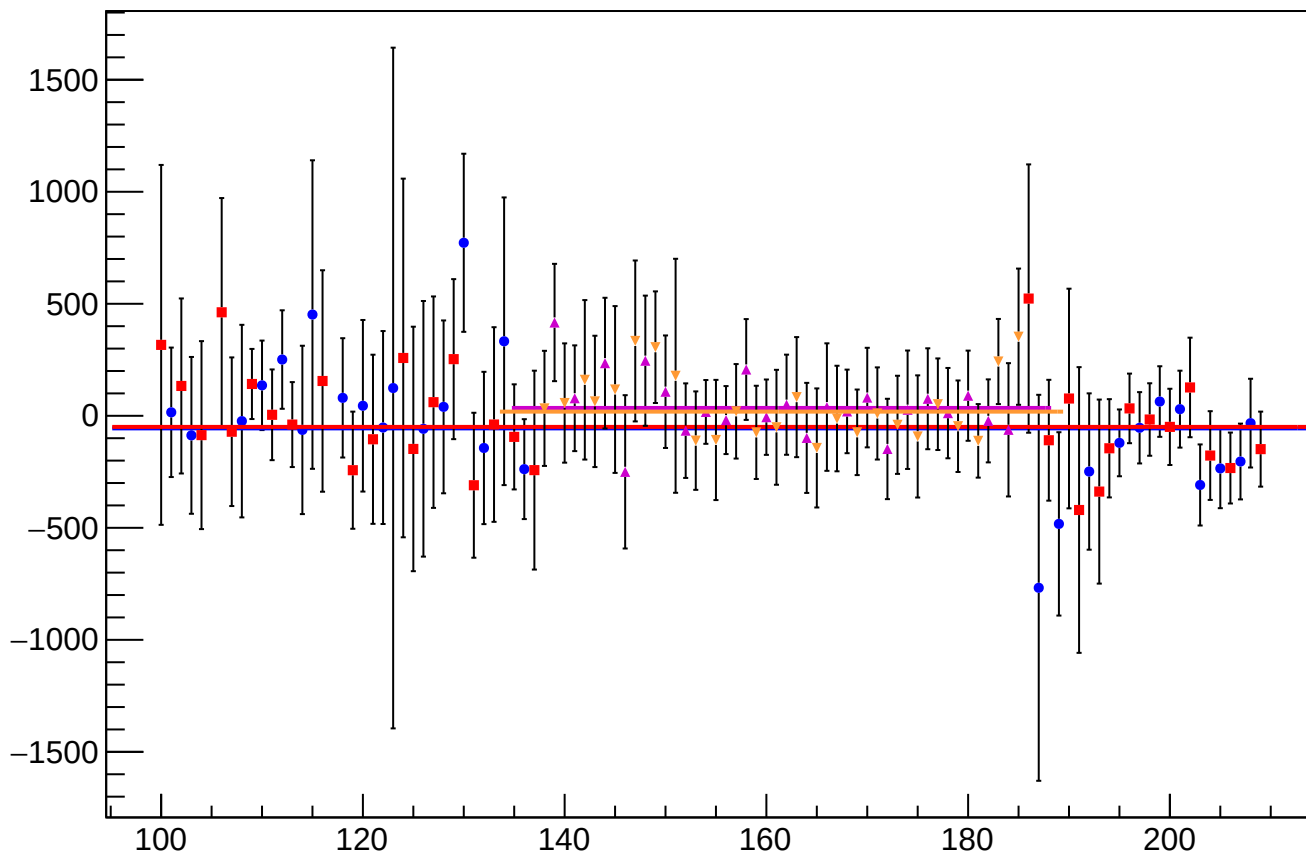
Right: 22.409+/-0.003 χ^2 /NDF: 54554.5/59

In: 22.479+/-0.003 χ^2 /NDF:44158.3/50

Out: 22.580+/-0.003 χ^2 /NDF:47796.3/56

All: 22.531+/-0.002 χ^2 /NDF: 92619.0/107

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.138 ± 47.063 $\chi^2/\text{NDF}: 16.2/27$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -49.529 ± 45.348 $\chi^2/\text{NDF}: 10.7/31$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

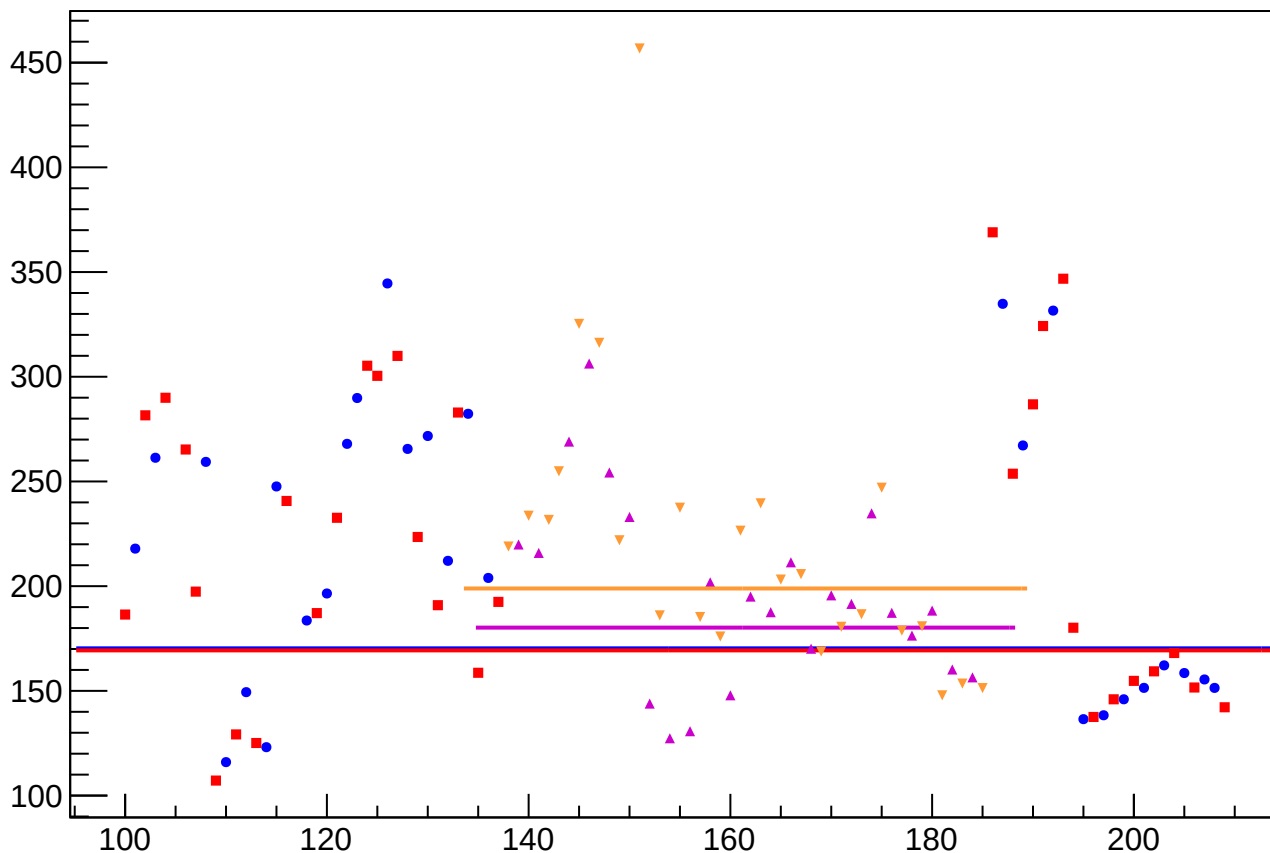
Right: -52.711 ± 32.655 $\chi^2/\text{NDF}: 26.9/59$

In: -8.568 ± 32.548 $\chi^2/\text{NDF}: 24.4/50$

Out: -17.387 ± 32.965 $\chi^2/\text{NDF}: 19.4/56$

All: -12.921 ± 23.161 $\chi^2/\text{NDF}: 43.8/107$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.307 $\pm$ 0.033 χ^2 /NDF: 2117307.4/27

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 169.334 $\pm$ 0.032 χ^2 /NDF: 2829847.5/31

Left In: 180.207 $\pm$ 0.032 χ^2 /NDF:1589005.4/22

Left: 188.959 $\pm$ 0.023 χ^2 /NDF: 3512499.2/47

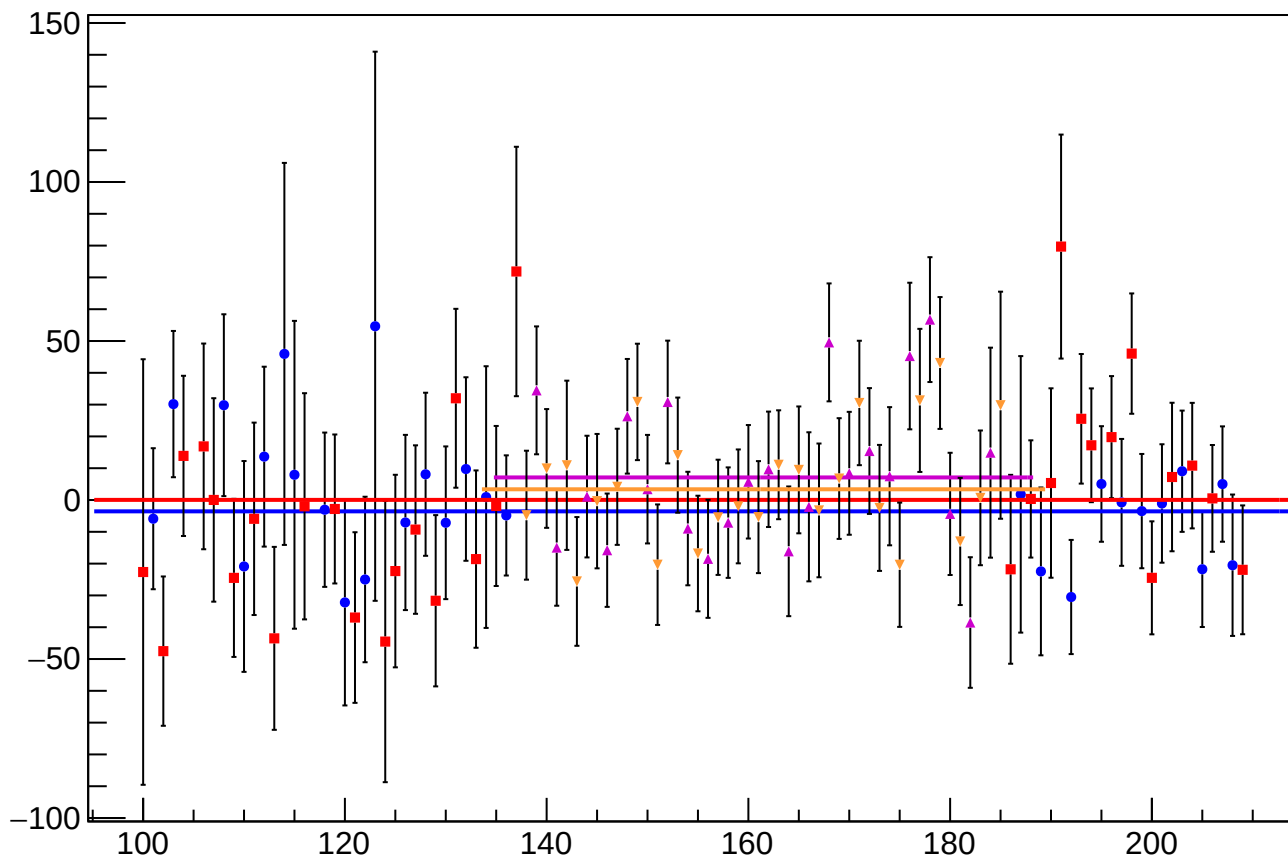
Right: 169.803 $\pm$ 0.023 χ^2 /NDF: 4947598.4/59

In: 175.472 $\pm$ 0.023 χ^2 /NDF:3752482.8/50

Out: 183.272 $\pm$ 0.023 χ^2 /NDF:4992939.6/56

All: 179.322 $\pm$ 0.016 χ^2 /NDF: 8802113.9/107

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.565 ± 4.523 χ^2/NDF : 12.6/27

Left Out: 3.372 ± 3.947 χ^2/NDF : 18.8/24

Right Out: 0.042 ± 4.333 χ^2/NDF : 36.8/31

Left In: 7.099 ± 4.047 χ^2/NDF : 32.5/22

Left: 5.189 ± 2.826 χ^2/NDF : 51.8/47

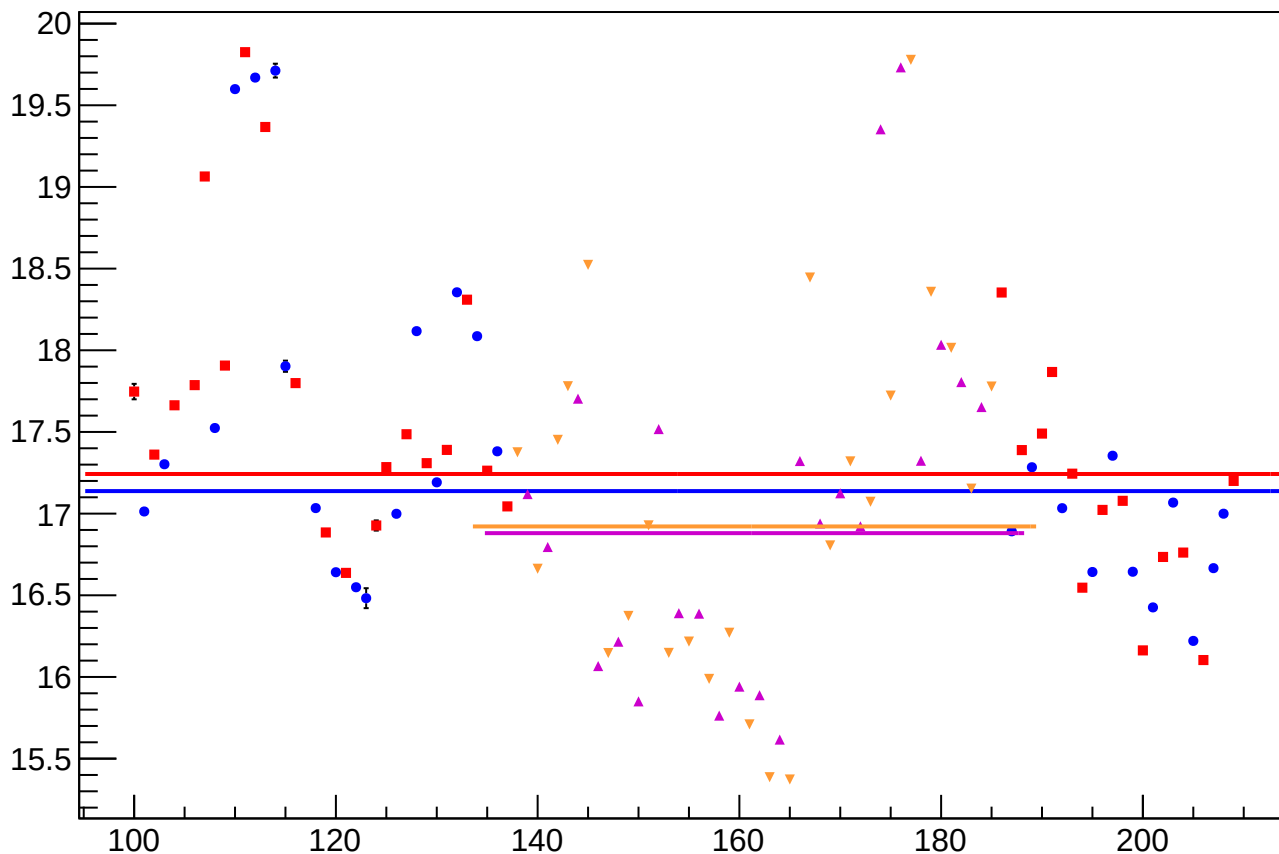
Right: -1.684 ± 3.129 χ^2/NDF : 49.7/59

In: 2.358 ± 3.016 χ^2/NDF : 48.2/50

Out: 1.862 ± 2.918 χ^2/NDF : 55.9/56

All: 2.101 ± 2.097 χ^2/NDF : 104.1/107

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.138 $\pm$ 0.003 χ^2 /NDF: 54229.8/27

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.243 $\pm$ 0.003 χ^2 /NDF: 65857.6/31

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

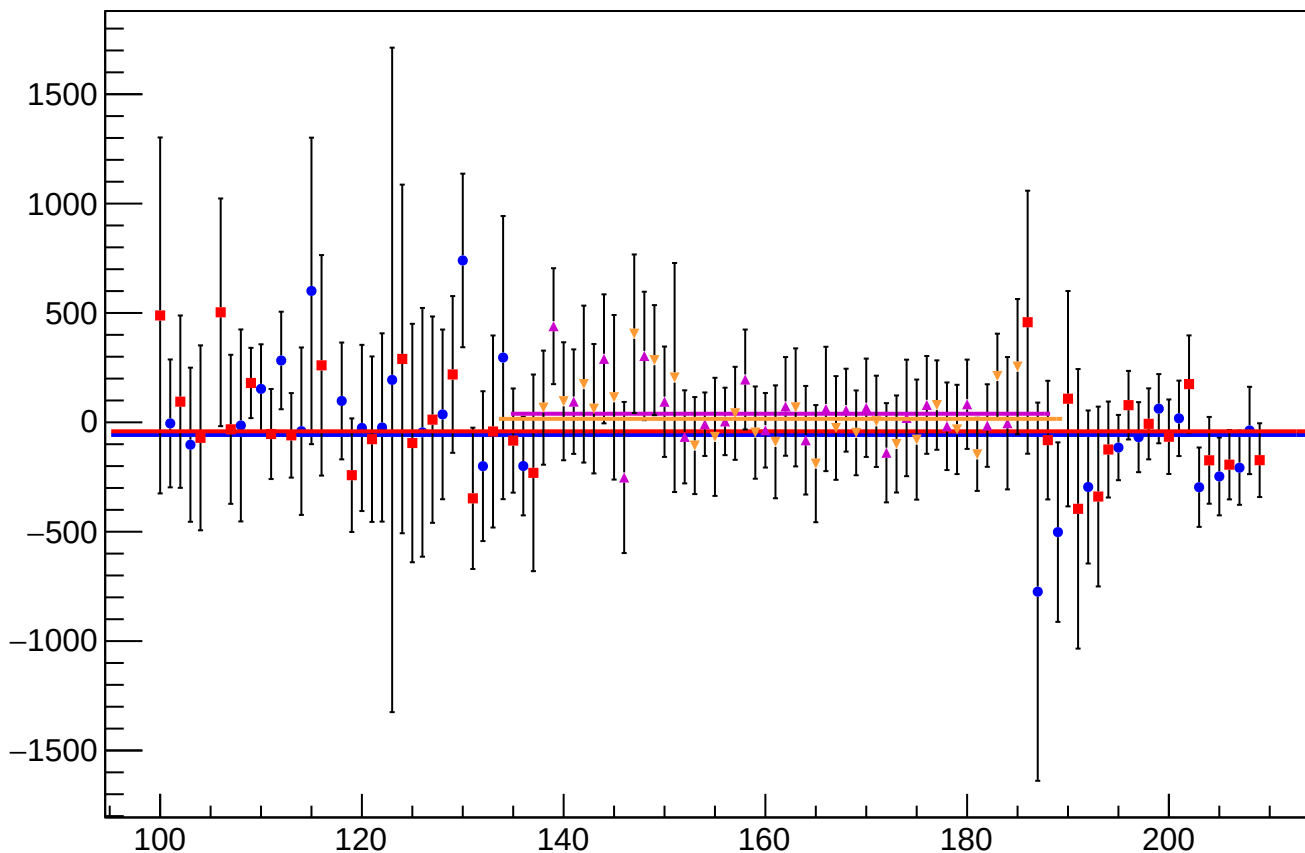
Right: 17.193 $\pm$ 0.002 χ^2 /NDF: 120646.0/59

In: 16.995 $\pm$ 0.002 χ^2 /NDF:179565.0/50

Out: 17.067 $\pm$ 0.002 χ^2 /NDF:210852.9/56

All: 17.032 $\pm$ 0.001 χ^2 /NDF: 391009.3/107

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.612 ± 47.334 χ^2/NDF : 16.6/27

Left Out: 15.970 ± 48.503 χ^2/NDF : 7.4/24

Right Out: -41.020 ± 45.711 χ^2/NDF : 11.7/31

Left In: 39.377 ± 45.571 χ^2/NDF : 6.9/22

Left: 28.402 ± 33.212 χ^2/NDF : 14.4/47

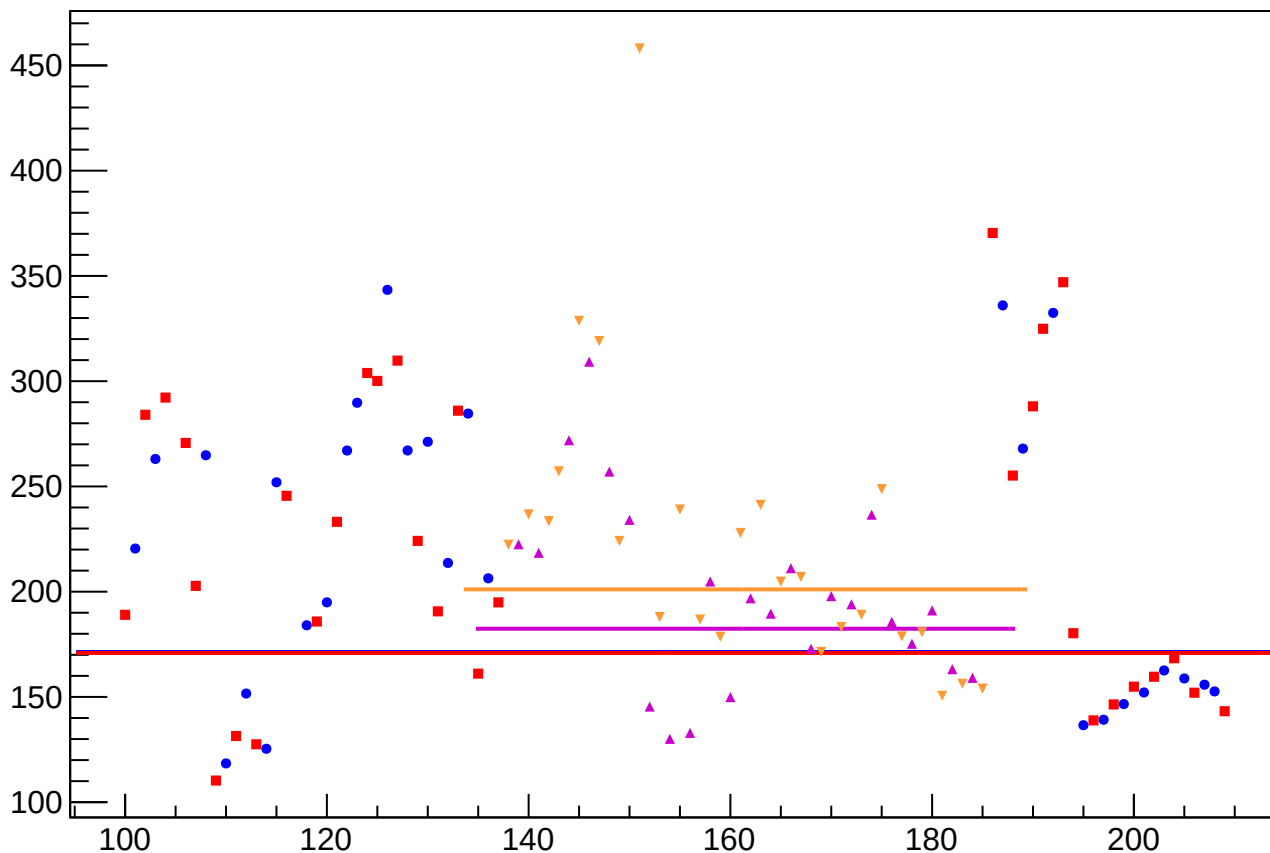
Right: -49.027 ± 32.881 χ^2/NDF : 28.3/59

In: -7.278 ± 32.829 χ^2/NDF : 25.7/50

Out: -14.213 ± 33.266 χ^2/NDF : 19.8/56

All: -10.699 ± 23.367 χ^2/NDF : 45.5/107

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.333 $\pm$ 0.033 χ^2 /NDF: 2103563.2/27

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 170.895 $\pm$ 0.032 χ^2 /NDF: 2773383.6/31

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

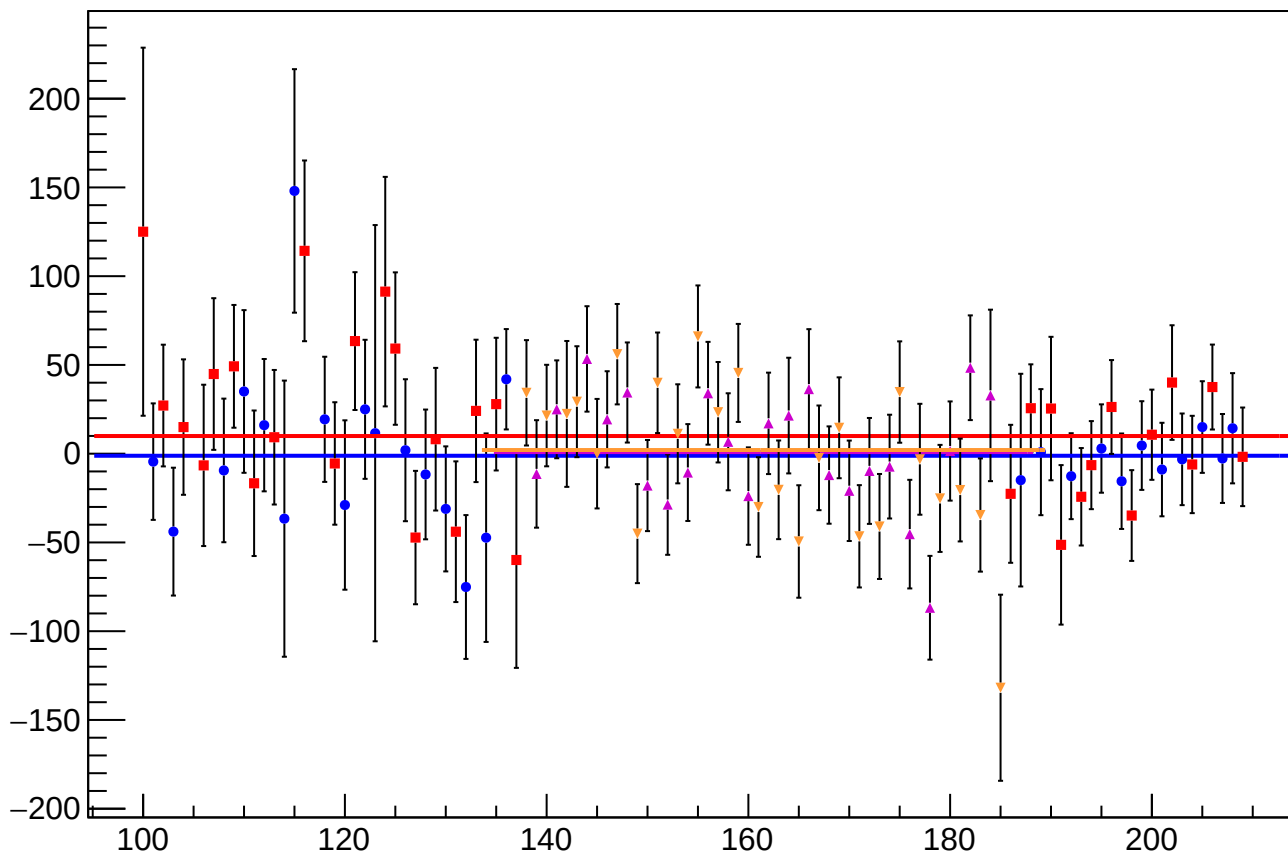
Right: 171.106 $\pm$ 0.023 χ^2 /NDF: 4877035.3/59

In: 177.074 $\pm$ 0.023 χ^2 /NDF:3709171.1/50

Out: 185.099 $\pm$ 0.024 χ^2 /NDF:4914984.4/56

All: 181.034 $\pm$ 0.017 χ^2 /NDF: 8683113.7/107

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.167 ± 6.371 χ^2/NDF : 16.8/27

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 9.949 ± 6.059 χ^2/NDF : 30.3/31

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

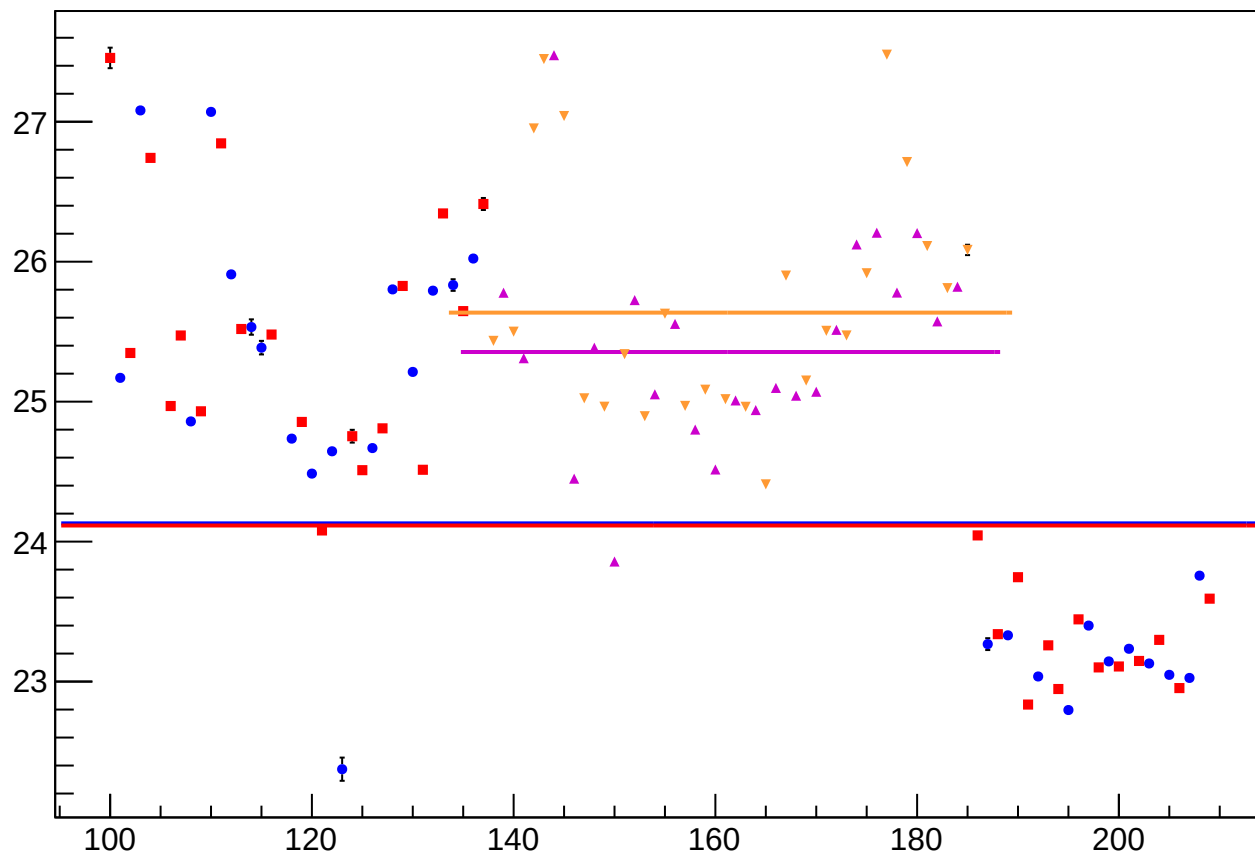
Right: 4.670 ± 4.391 χ^2/NDF : 48.8/59

In: -0.083 ± 4.394 χ^2/NDF : 44.0/50

Out: 5.943 ± 4.253 χ^2/NDF : 70.6/56

All: 3.029 ± 3.056 χ^2/NDF : 115.6/107

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.130 $\pm$ 0.005 χ^2 /NDF: 80994.7/27

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24

Right Out: 24.115 $\pm$ 0.004 χ^2 /NDF: 75960.5/31

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

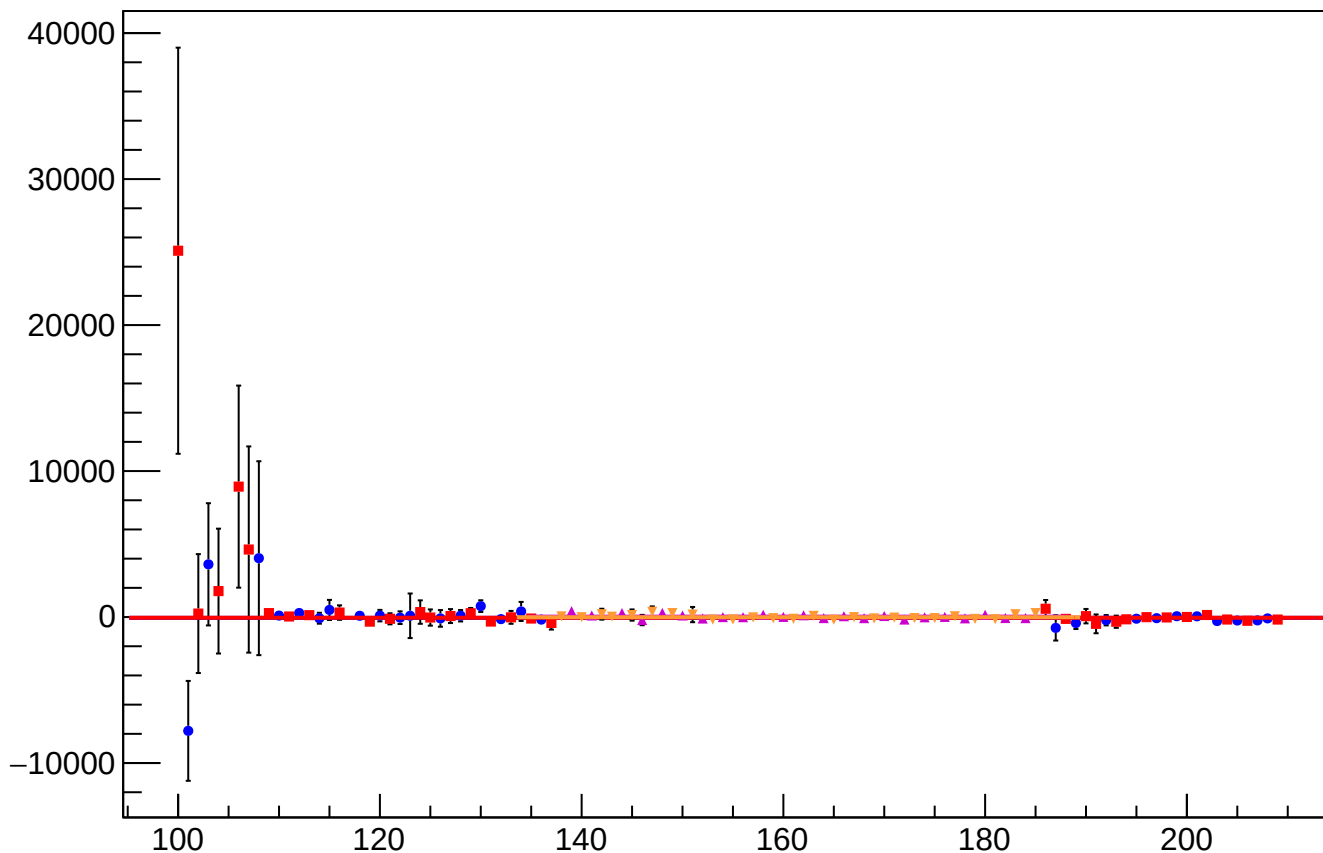
Right: 24.122 $\pm$ 0.003 χ^2 /NDF: 156961.2/59

In: 24.772 $\pm$ 0.003 χ^2 /NDF:149488.4/50

Out: 24.887 $\pm$ 0.003 χ^2 /NDF:175033.3/56

All: 24.831 $\pm$ 0.002 χ^2 /NDF: 325225.2/107

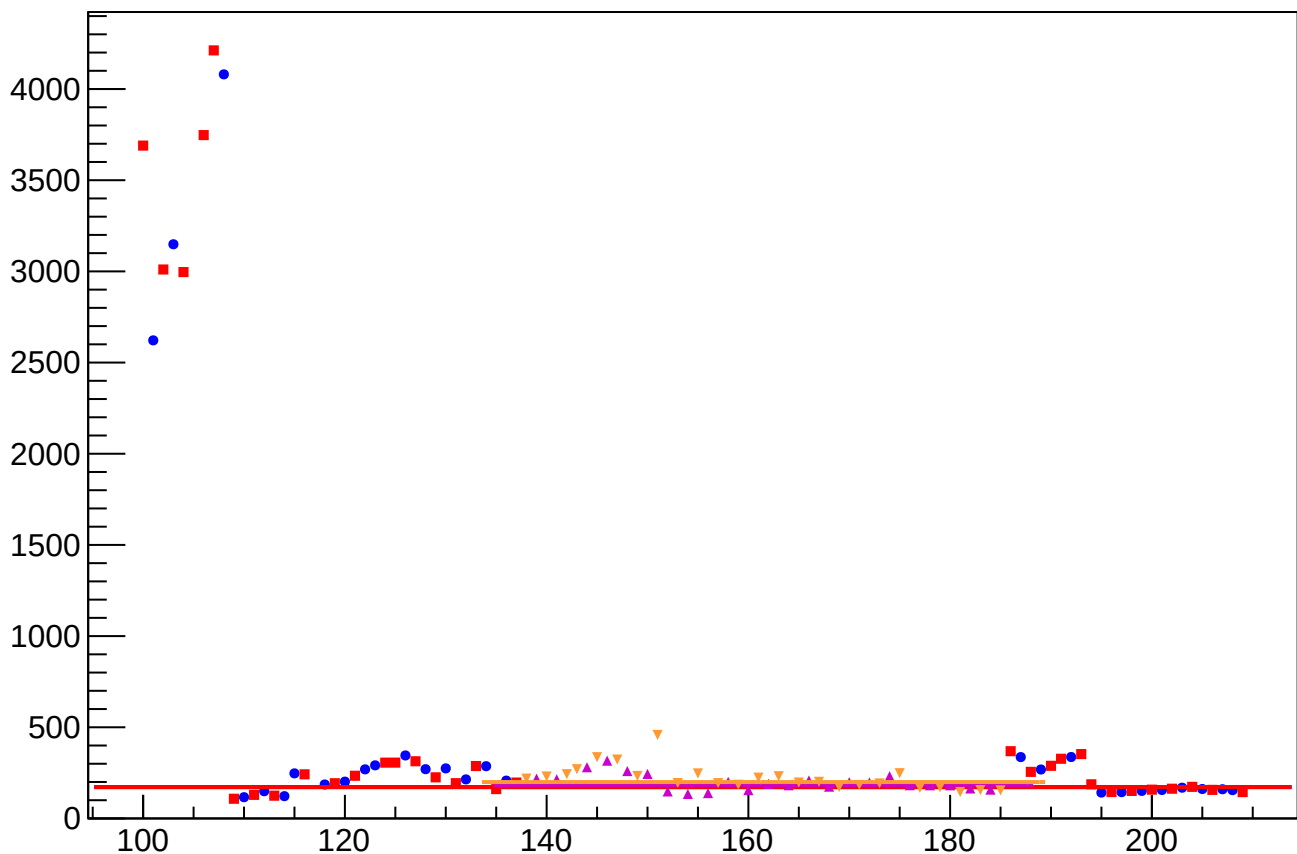
asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.500 $\pm$ 49.651 χ^2 /NDF: 21.1/27
 Left Out: -12.820 $\pm$ 48.216 χ^2 /NDF:7.9/24
 Right Out: -48.817 $\pm$ 48.672 χ^2 /NDF: 18.3/31
 Left In: 26.836 $\pm$ 45.876 χ^2 /NDF:7.5/22

Left: 7.994 $\pm$ 33.236 χ^2 /NDF: 15.7/47
 Right: -52.092 $\pm$ 34.757 χ^2 /NDF: 39.4/59
 In: -11.083 $\pm$ 33.695 χ^2 /NDF:30.1/50
 Out: -30.649 $\pm$ 34.254 χ^2 /NDF:26.4/56
 All: -20.705 $\pm$ 24.021 χ^2 /NDF: 56.7/107

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.608+/-0.035 χ^2/NDF : 4500391.7/27

Left Out: 199.536+/-0.034 χ^2/NDF : 1880548.8/24

Right Out: 172.321+/-0.034 χ^2/NDF : 5392941.0/31

Left In: 184.031+/-0.032 χ^2/NDF : 1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

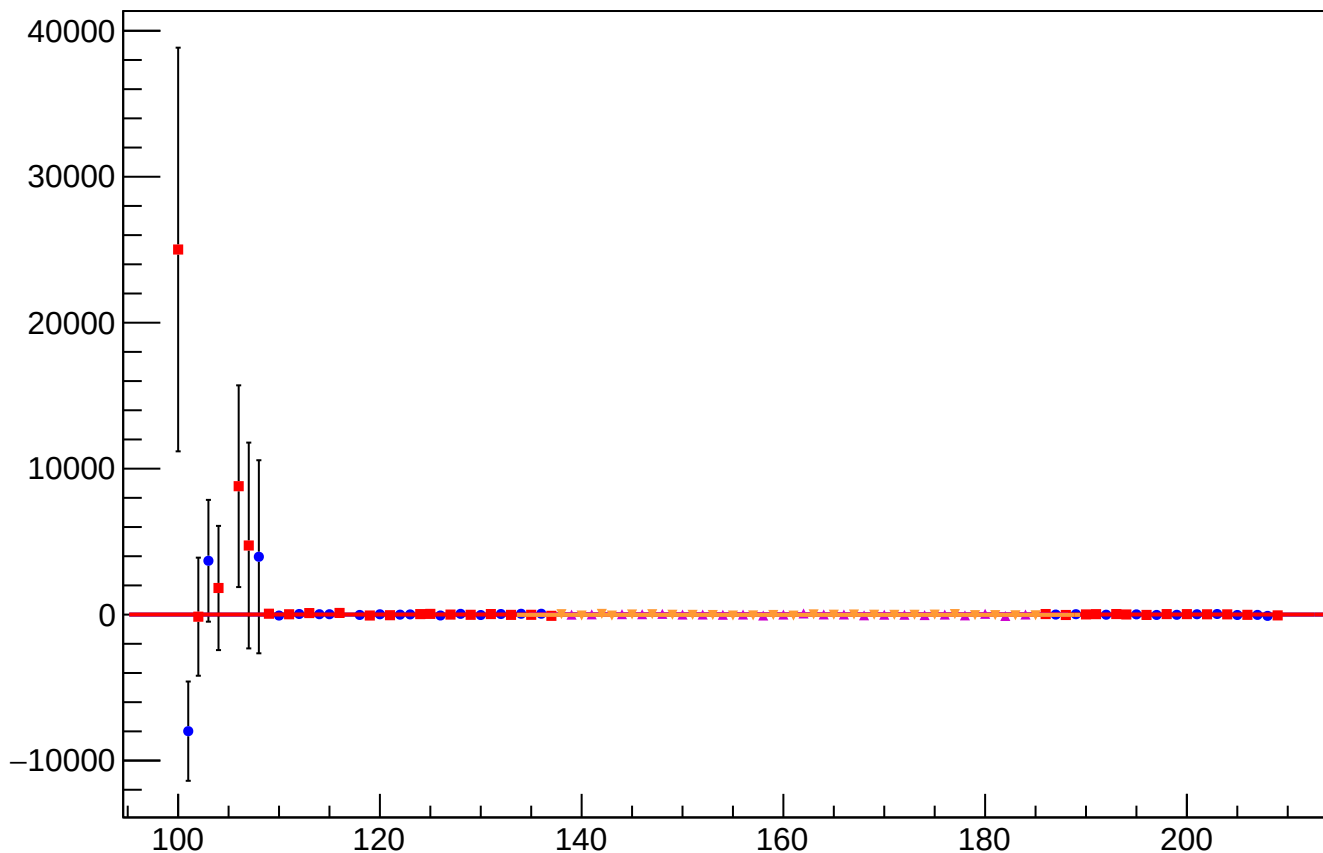
Right: 171.972+/-0.025 χ^2/NDF : 9893542.9/59

In: 178.310+/-0.024 χ^2/NDF : 5991390.6/50

Out: 186.057+/-0.024 χ^2/NDF : 7589061.1/56

All: 182.120+/-0.017 χ^2/NDF : 13632435.1/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.401+/-7.672 χ^2/NDF : 30.5/27

Left Out: -17.580+/-6.694 χ^2/NDF : 22.3/24

Right Out: 7.342+/-7.397 χ^2/NDF : 34.3/31

Left In: 1.038+/-6.880 χ^2/NDF : 32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

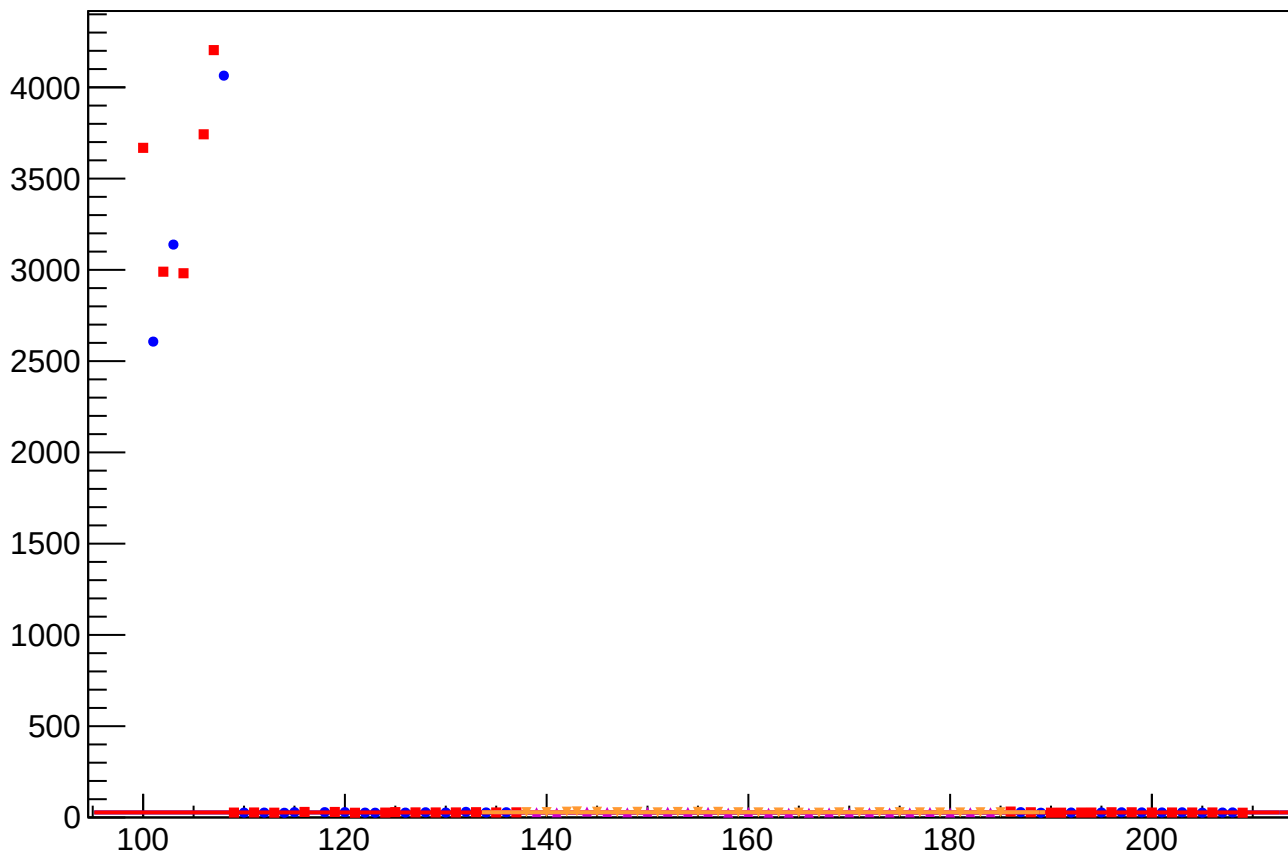
Right: 3.998+/-5.325 χ^2/NDF : 65.3/59

In: 0.754+/-5.122 χ^2/NDF : 63.0/50

Out: -6.360+/-4.963 χ^2/NDF : 62.9/56

All: -2.915+/-3.564 χ^2/NDF : 126.8/107

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.511+/-0.005 χ^2/NDF : 3040991.8/27

Left Out: 28.691+/-0.005 χ^2/NDF : 110483.8/24

Right Out: 27.493+/-0.005 χ^2/NDF : 3509292.0/31

Left In: 28.673+/-0.005 χ^2/NDF : 124751.4/22

Left: 28.682+/-0.003 χ^2/NDF : 235242.3/47

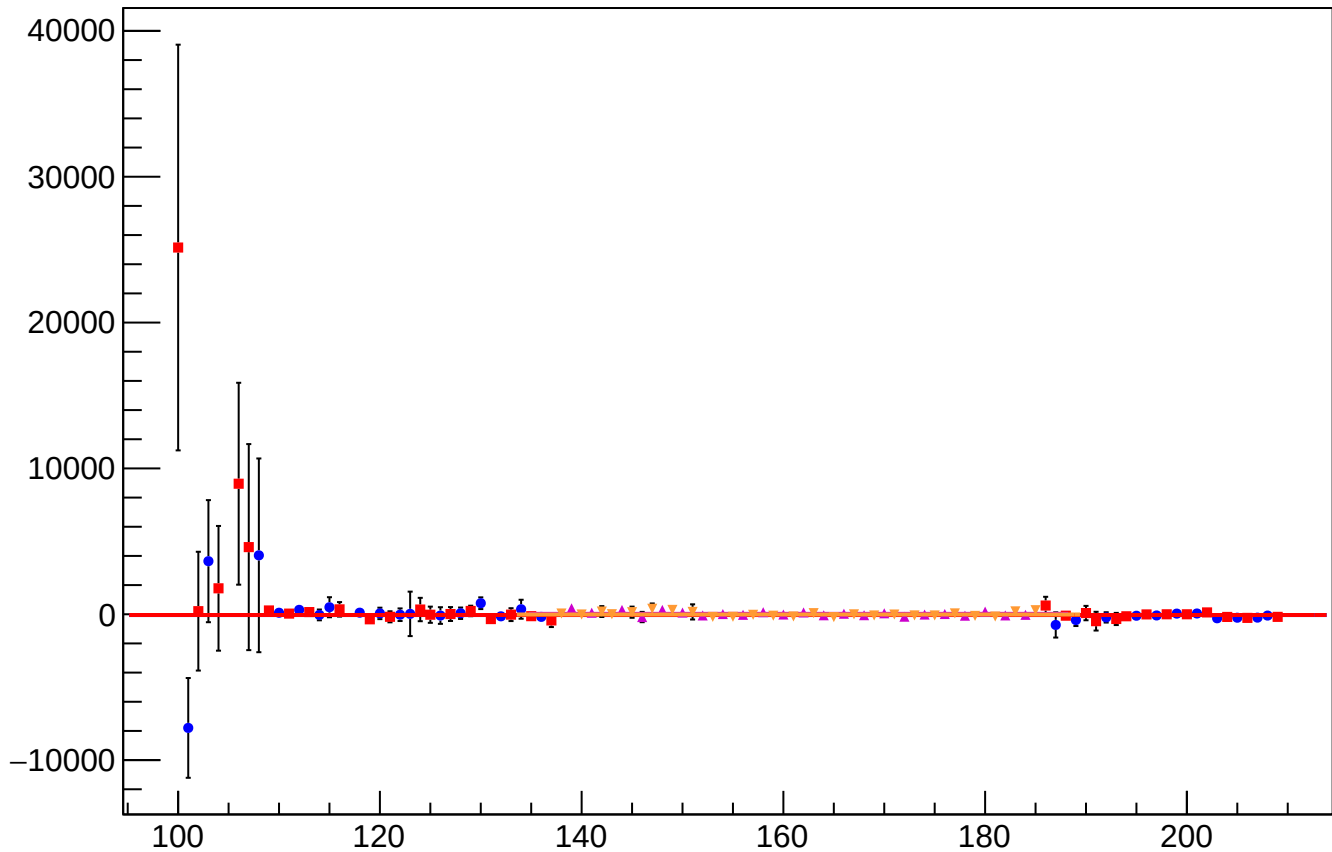
Right: 27.502+/-0.004 χ^2/NDF : 6550289.8/59

In: 28.155+/-0.004 χ^2/NDF : 3191151.9/50

Out: 28.151+/-0.004 χ^2/NDF : 3648615.5/56

All: 28.153+/-0.003 χ^2/NDF : 6839767.9/107

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.679 $\pm$ 49.496 χ^2 /NDF: 21.4/27

Left Out: -15.483 $\pm$ 48.109 χ^2 /NDF: 8.7/24

Right Out: -50.795 $\pm$ 48.531 χ^2 /NDF: 18.9/31

Left In: 27.009 $\pm$ 45.785 χ^2 /NDF: 7.8/22

Left: 6.815 $\pm$ 33.166 χ^2 /NDF: 16.9/47

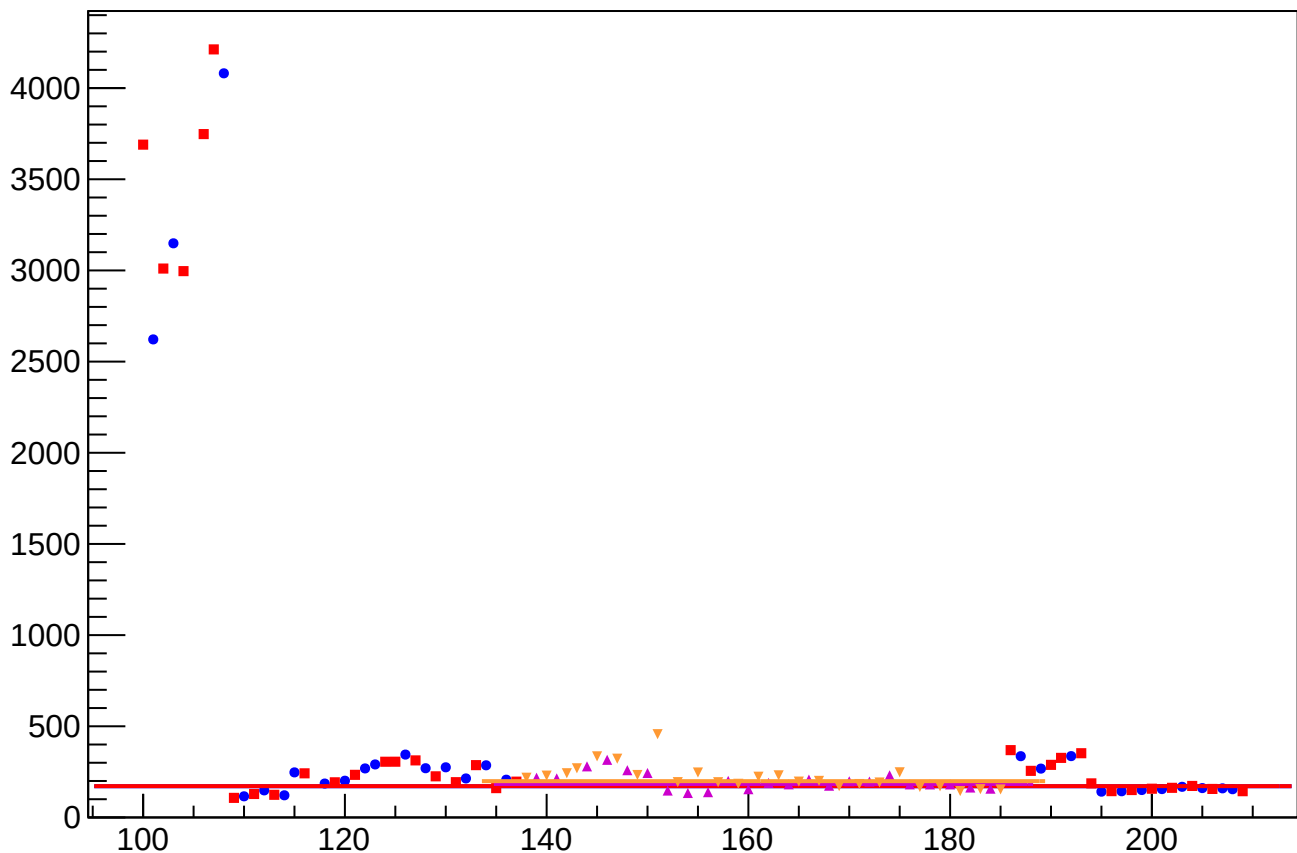
Right: -52.209 $\pm$ 34.653 χ^2 /NDF: 40.3/59

In: -10.196 $\pm$ 33.610 χ^2 /NDF: 30.6/50

Out: -32.985 $\pm$ 34.166 χ^2 /NDF: 27.9/56

All: -21.404 $\pm$ 23.960 χ^2 /NDF: 58.7/107

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.029+/-0.035 χ^2/NDF : 4513386.1/27

Left Out: 199.094+/-0.034 χ^2/NDF :1880343.4/24

Right Out: 171.764+/-0.034 χ^2/NDF : 5410593.3/31

Left In: 183.667+/-0.032 χ^2/NDF :1422895.7/22

Left: 190.999+/-0.023 χ^2/NDF : 3411149.8/47

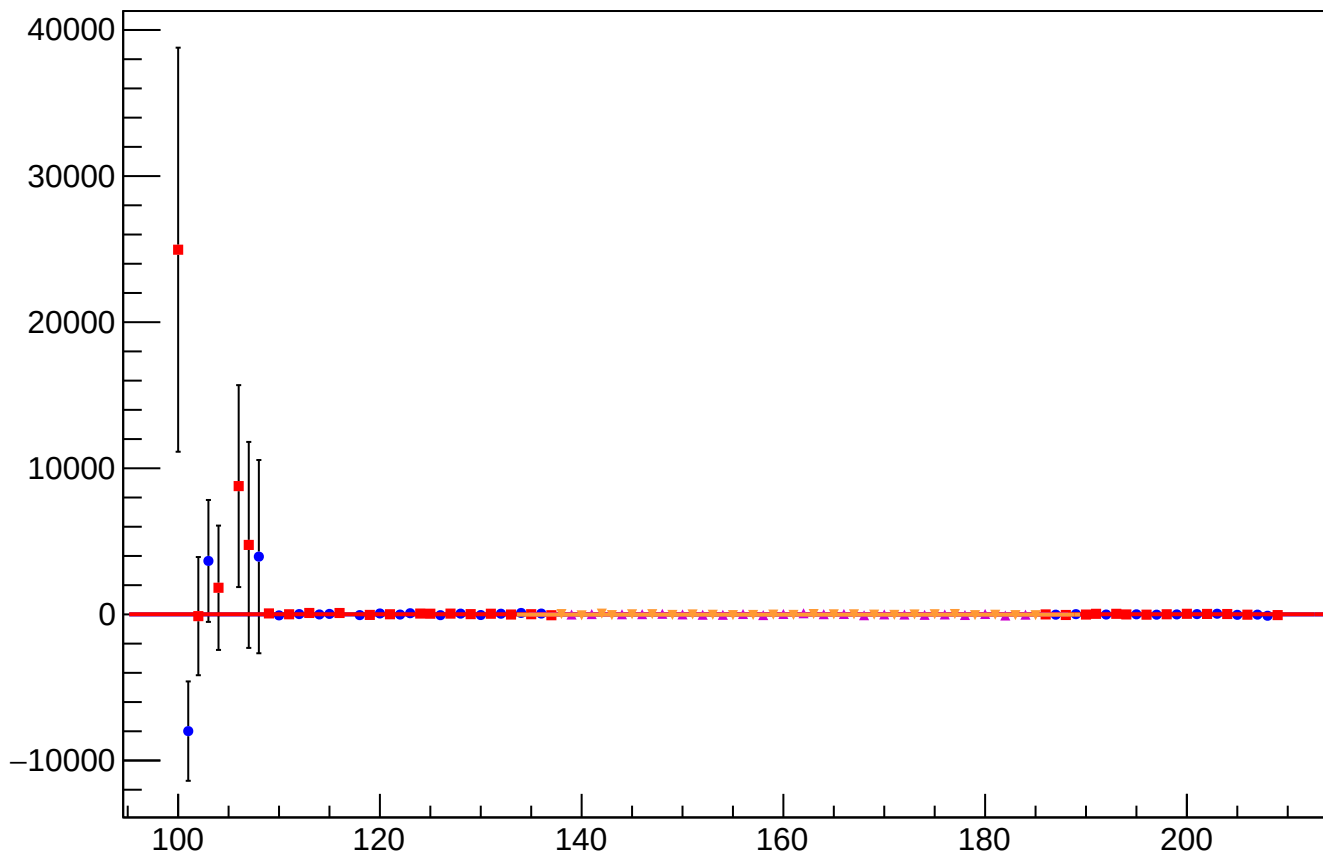
Right: 171.404+/-0.025 χ^2/NDF : 9924203.9/59

In: 177.840+/-0.024 χ^2/NDF :6006546.2/50

Out: 185.548+/-0.024 χ^2/NDF :7610836.0/56

All: 181.631+/-0.017 χ^2/NDF : 13669118.9/10

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.763+/-7.647 χ^2/NDF : 34.5/27

Left Out: -15.006+/-6.723 χ^2/NDF :17.5/24

Right Out: 10.569+/-7.382 χ^2/NDF : 30.3/31

Left In: -0.702+/-6.909 χ^2/NDF :26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

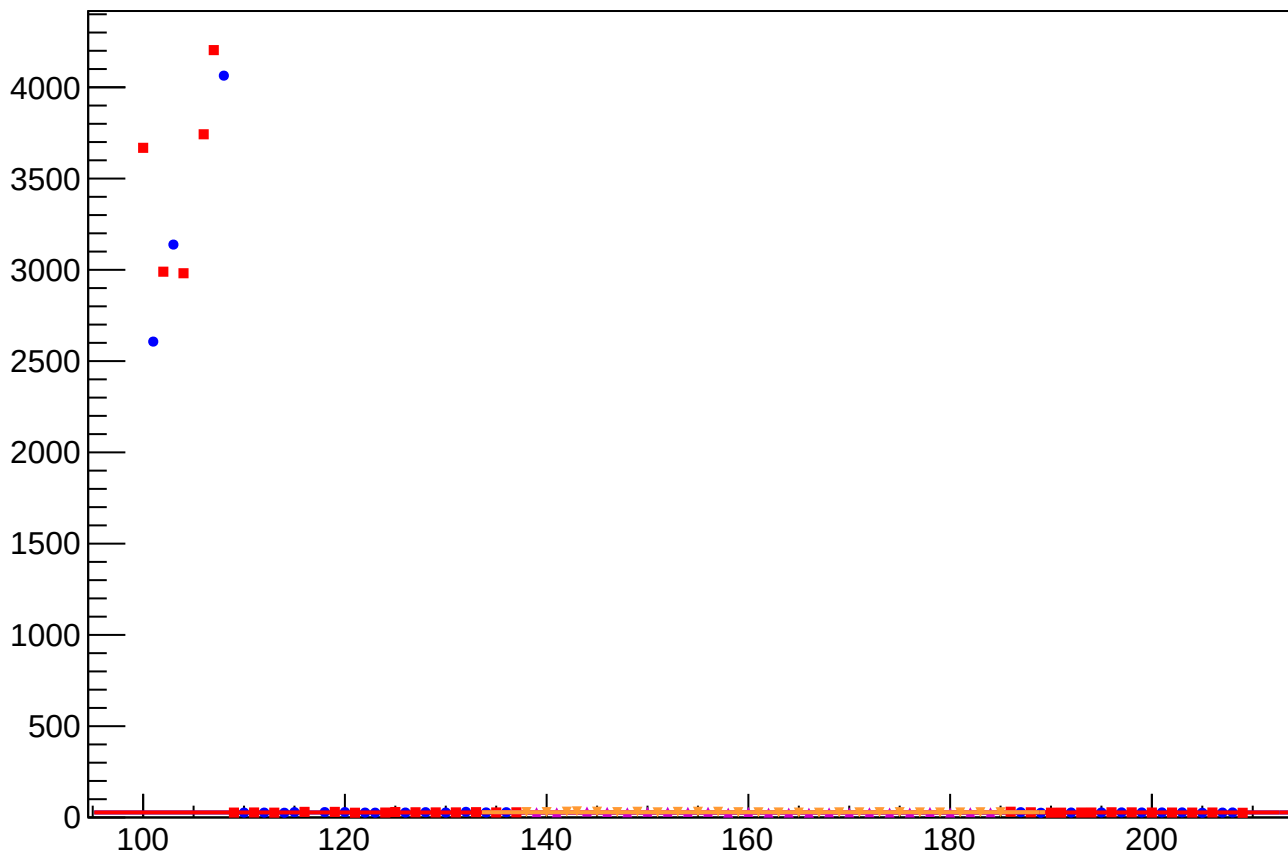
Right: 4.620+/-5.311 χ^2/NDF : 66.2/59

In: -1.179+/-5.127 χ^2/NDF :60.9/50

Out: -3.410+/-4.971 χ^2/NDF :54.4/56

All: -2.329+/-3.569 χ^2/NDF : 115.3/107

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.418 $\pm$ 0.005 χ^2 /NDF: 3047217.2/27

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.436 $\pm$ 0.005 χ^2 /NDF: 3512179.7/31

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

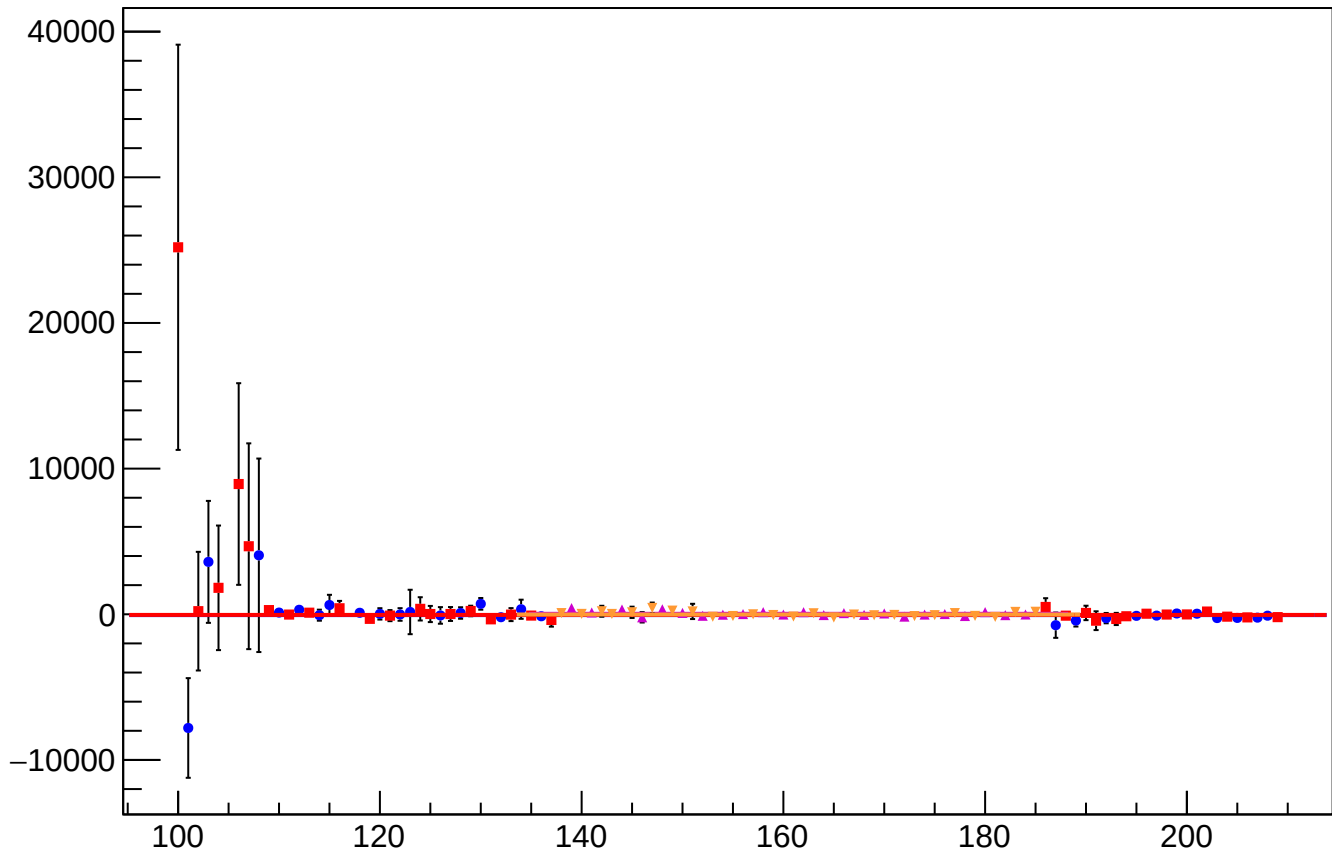
Right: 27.427 $\pm$ 0.004 χ^2 /NDF: 6559402.3/59

In: 28.175 $\pm$ 0.004 χ^2 /NDF: 3212174.1/50

Out: 28.188 $\pm$ 0.004 χ^2 /NDF: 3672195.7/56

All: 28.182 $\pm$ 0.003 χ^2 /NDF: 6884377.0/107

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.946 $\pm$ 49.838 χ^2 /NDF: 21.7/27

Left Out: -15.548 $\pm$ 48.688 χ^2 /NDF:8.0/24

Right Out: -43.866 $\pm$ 48.902 χ^2 /NDF: 18.2/31

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

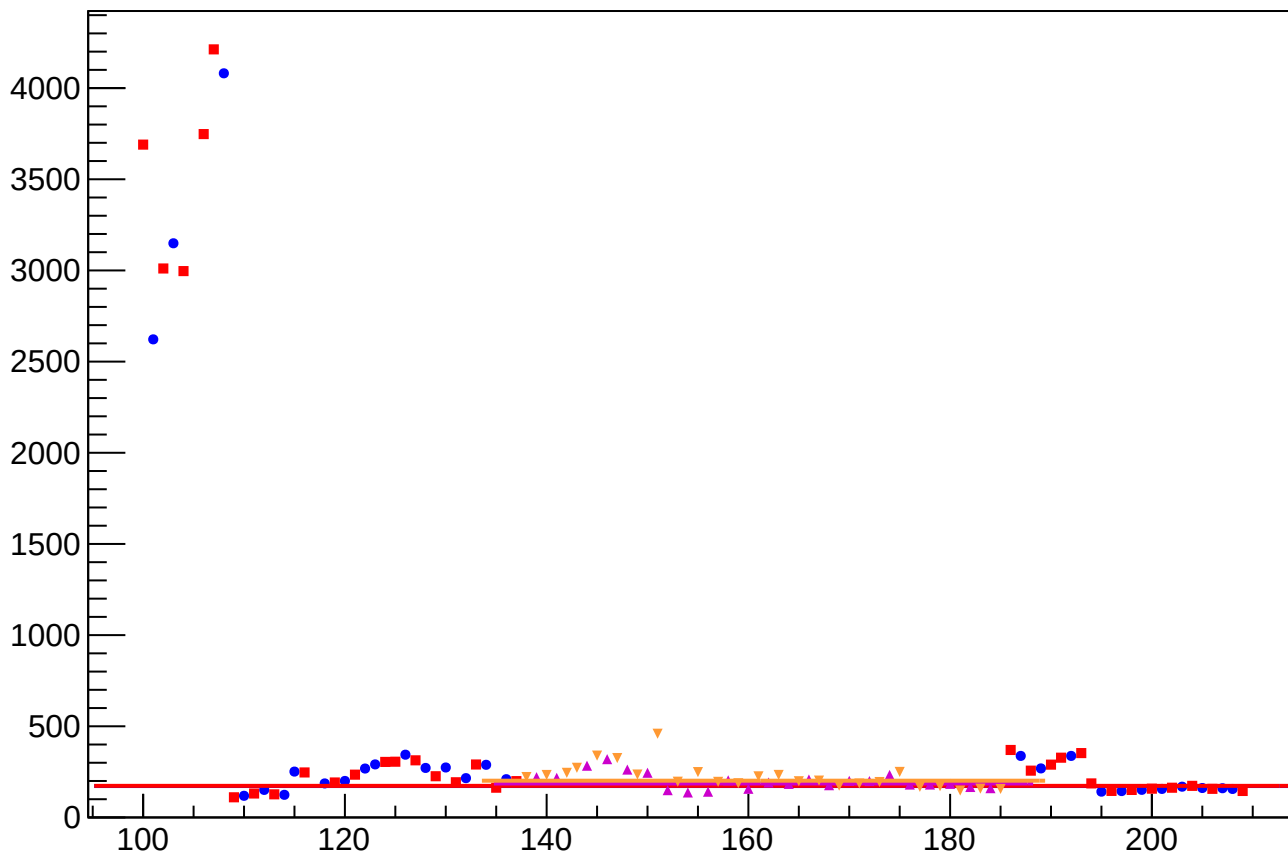
Right: -49.792 $\pm$ 34.905 χ^2 /NDF: 39.9/59

In: -9.242 $\pm$ 33.944 χ^2 /NDF:31.5/50

Out: -29.645 $\pm$ 34.503 χ^2 /NDF:26.4/56

All: -19.277 $\pm$ 24.197 χ^2 /NDF: 58.0/107

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.313+/-0.035 χ^2/NDF : 4482371.5/27

Left Out: 201.600+/-0.034 χ^2/NDF :1857453.2/24

Right Out: 173.298+/-0.035 χ^2/NDF : 5351432.5/31

Left In: 186.107+/-0.033 χ^2/NDF :1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

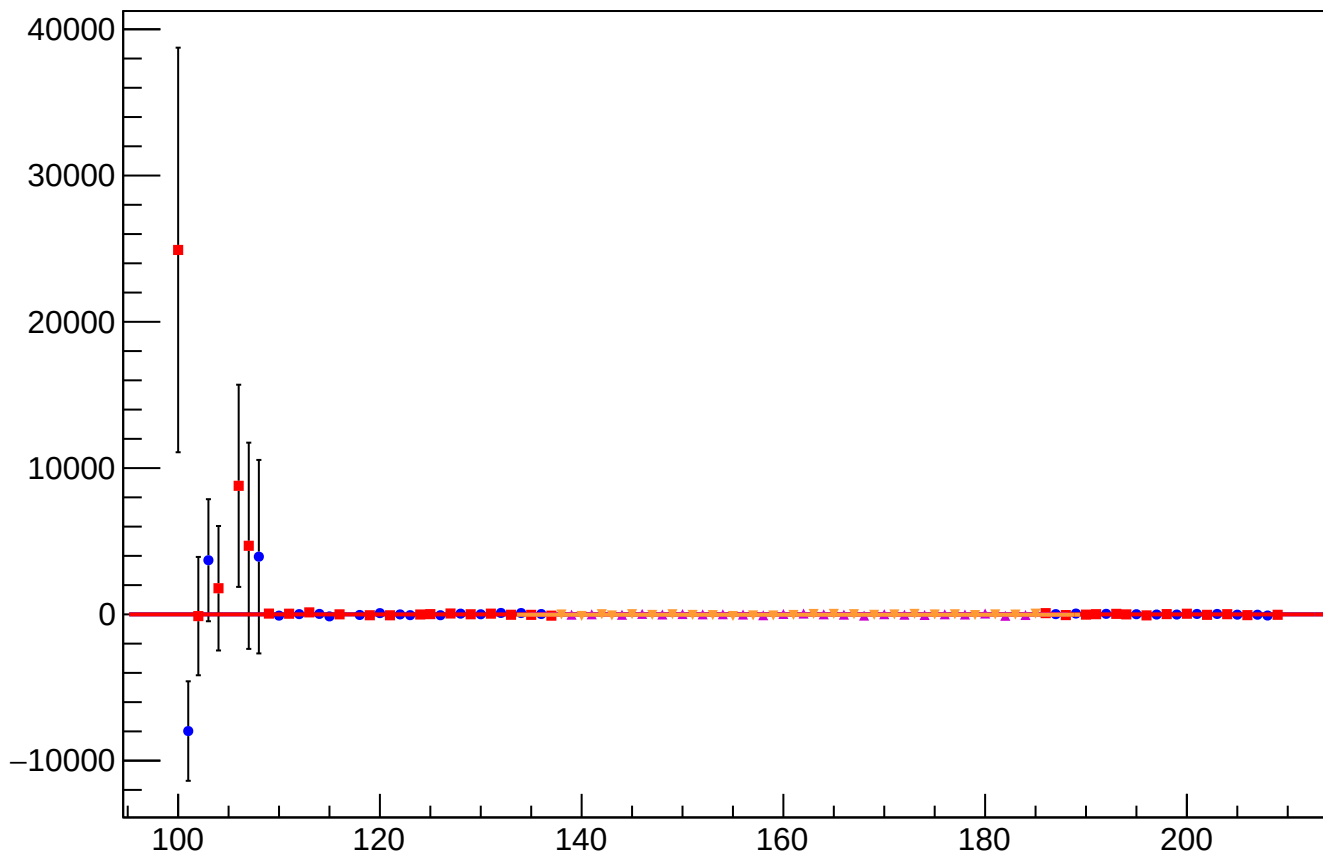
Right: 172.815+/-0.025 χ^2/NDF : 9834202.1/59

In: 179.708+/-0.024 χ^2/NDF :5955837.3/50

Out: 187.511+/-0.024 χ^2/NDF :7545301.9/56

All: 183.546+/-0.017 χ^2/NDF : 13553121.4/10

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.465+/-9.331 χ^2/NDF : 28.2/27

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: -1.082+/-9.011 χ^2/NDF : 35.1/31

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

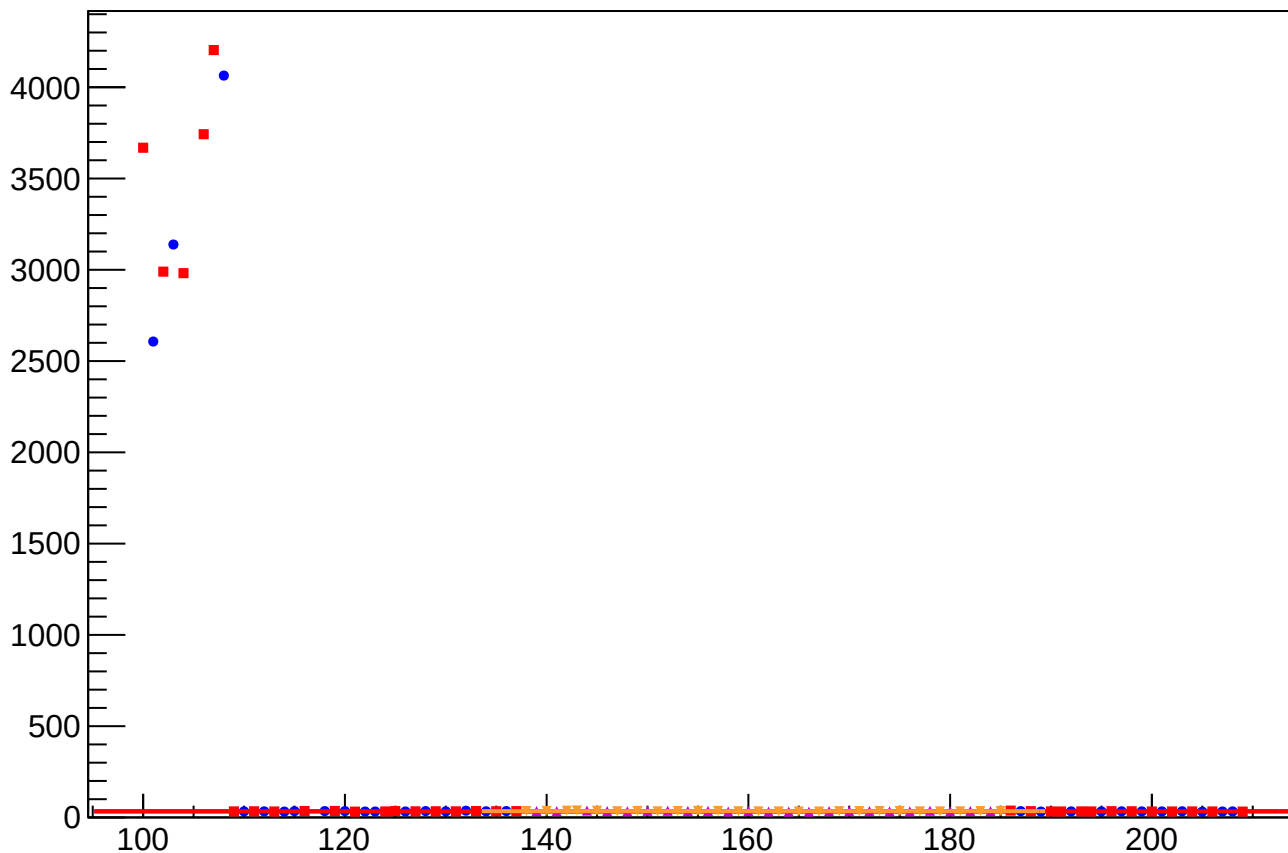
Right: 1.112+/-6.482 χ^2/NDF : 63.4/59

In: -1.815+/-6.205 χ^2/NDF : 49.9/50

Out: -13.452+/-6.009 χ^2/NDF : 64.3/56

All: -7.820+/-4.317 χ^2/NDF : 116.0/107

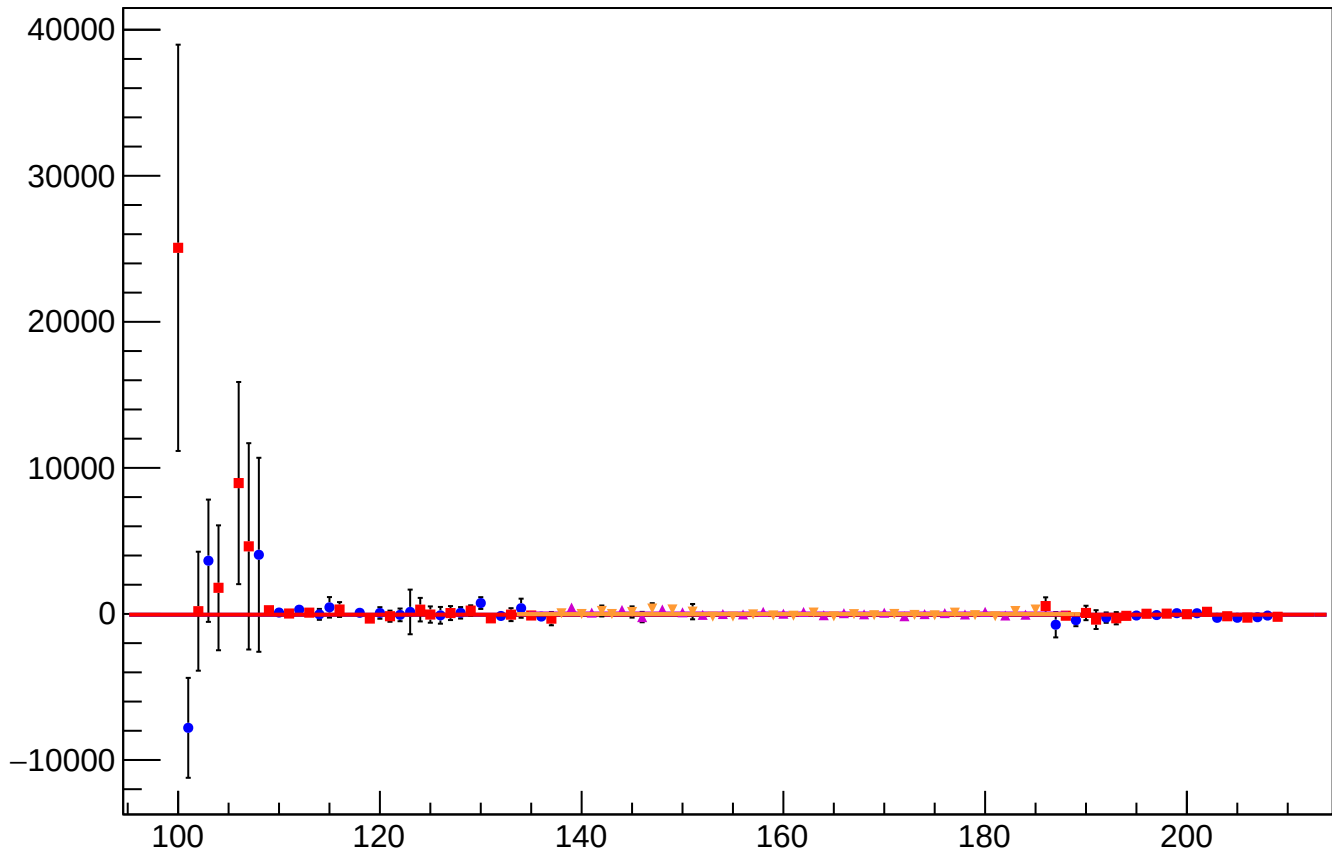
asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.479+/-0.007 χ^2/NDF : 3019090.9/27
 Left Out: 34.614+/-0.006 χ^2/NDF : 57946.1/24
 Right Out: 33.537+/-0.006 χ^2/NDF : 3470524.0/31
 Left In: 34.685+/-0.006 χ^2/NDF : 60315.2/22

Left: 34.649+/-0.004 χ^2/NDF : 118335.7/47
 Right: 33.509+/-0.005 χ^2/NDF : 6489655.1/59
 In: 34.152+/-0.004 χ^2/NDF : 3098031.9/50
 Out: 34.135+/-0.004 χ^2/NDF : 3544332.3/56
 All: 34.143+/-0.003 χ^2/NDF : 6642371.4/107

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.413 $\pm$ 49.690 χ^2 /NDF: 21.3/27

Left Out: -8.916 $\pm$ 48.615 χ^2 /NDF:8.6/24

Right Out: -49.411 $\pm$ 48.713 χ^2 /NDF: 17.0/31

Left In: 34.127 $\pm$ 46.296 χ^2 /NDF:7.4/22

Left: 13.656 $\pm$ 33.526 χ^2 /NDF: 16.5/47

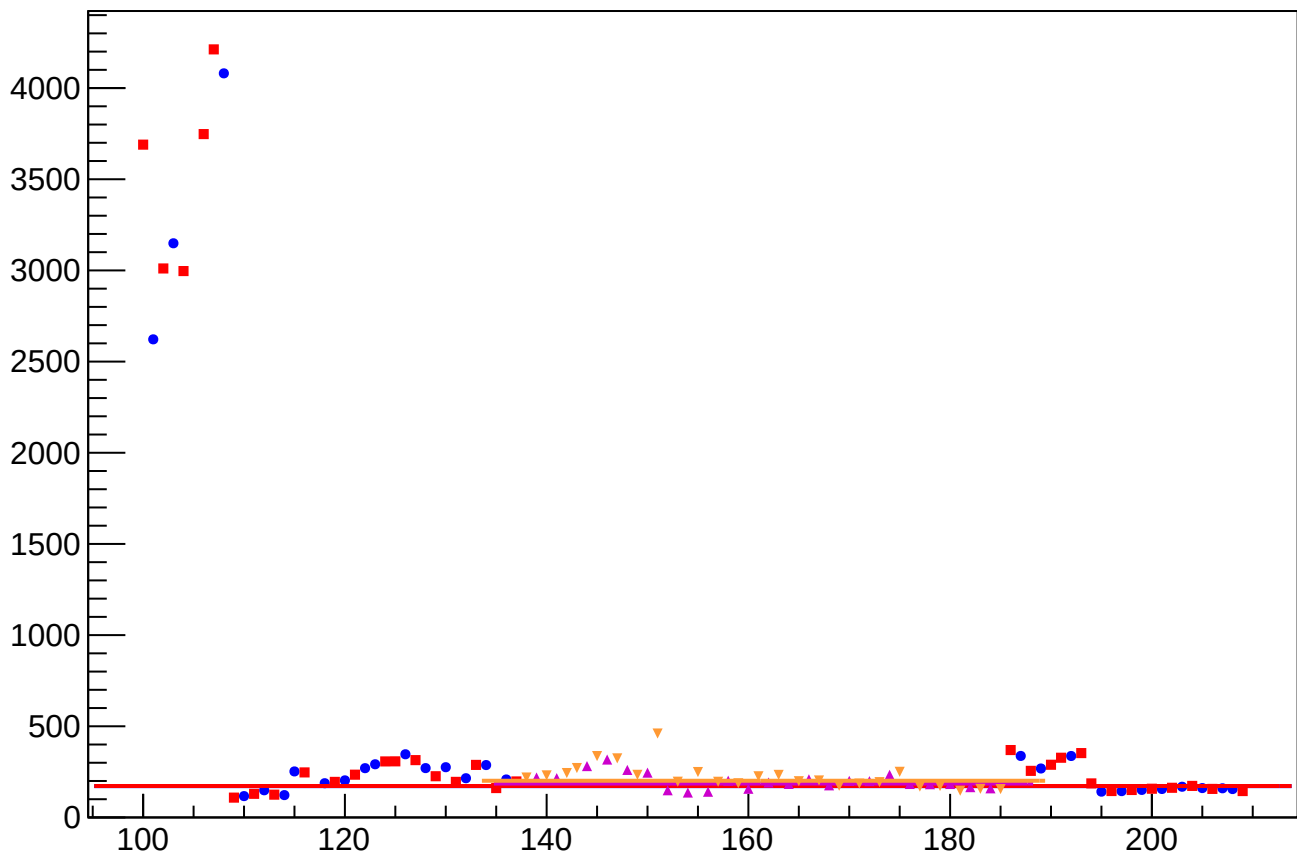
Right: -54.313 $\pm$ 34.786 χ^2 /NDF: 38.4/59

In: -9.340 $\pm$ 33.873 χ^2 /NDF:30.6/50

Out: -29.123 $\pm$ 34.411 χ^2 /NDF:26.0/56

All: -19.076 $\pm$ 24.140 χ^2 /NDF: 56.8/107

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.710 $\pm$ 0.035 χ^2 /NDF: 4511260.8/27

Left Out: 201.296 $\pm$ 0.034 χ^2 /NDF:1851134.1/24

Right Out: 172.458 $\pm$ 0.034 χ^2 /NDF: 5399254.8/31

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

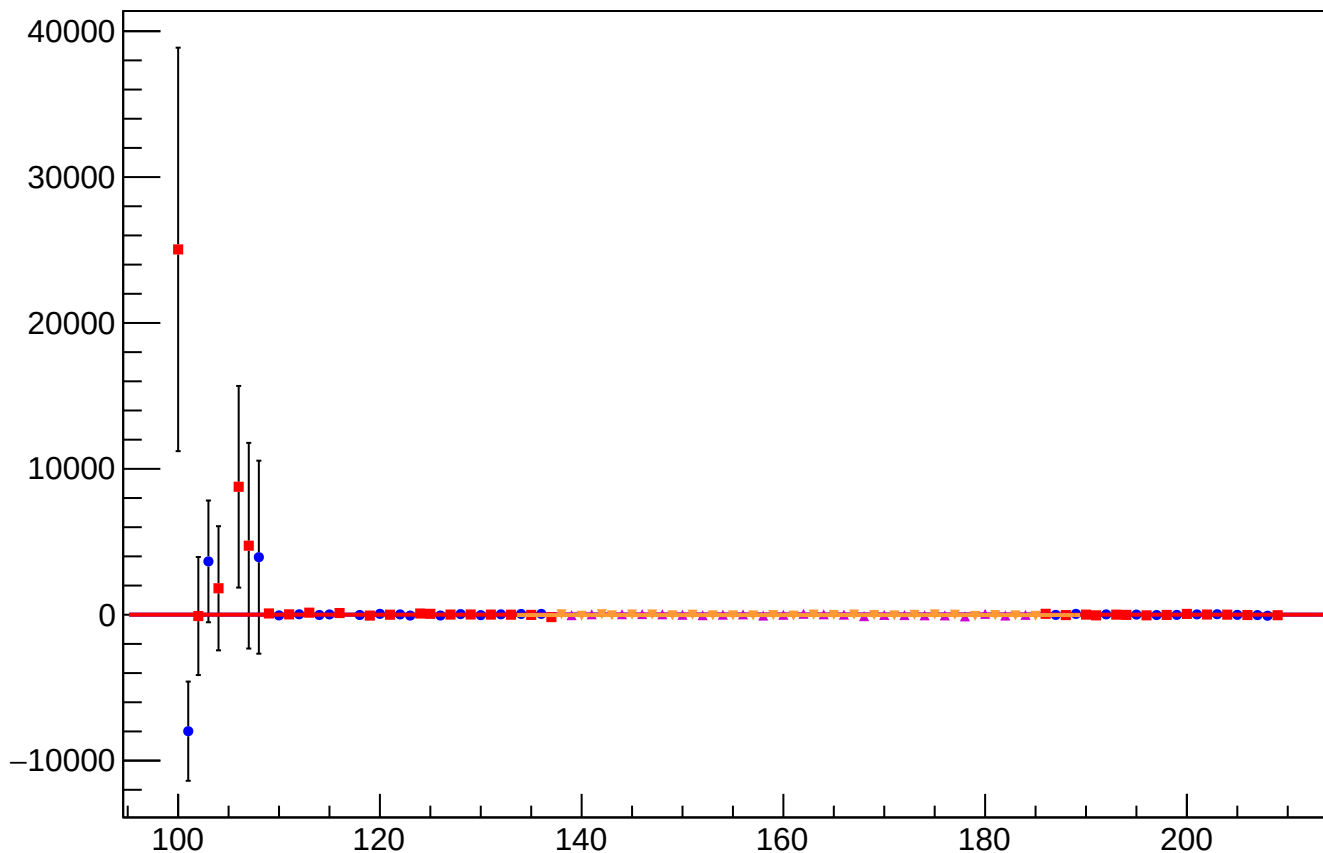
Right: 172.091 $\pm$ 0.025 χ^2 /NDF: 9910746.5/59

In: 179.281 $\pm$ 0.024 χ^2 /NDF:5979775.4/50

Out: 186.906 $\pm$ 0.024 χ^2 /NDF:7601570.4/56

All: 183.034 $\pm$ 0.017 χ^2 /NDF: 13631218.0/10

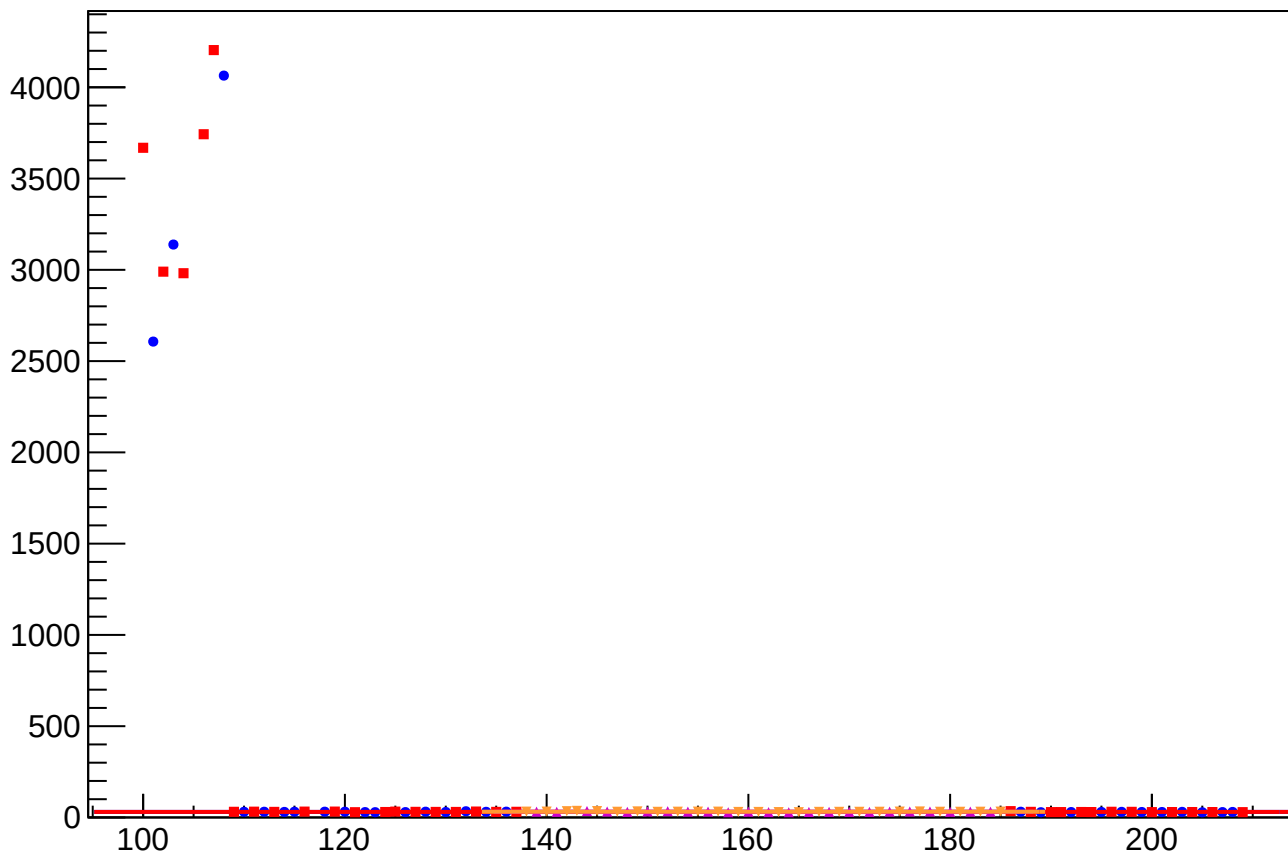
asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.168+/-8.449 χ^2/NDF : 23.0/27
 Left Out: -22.879+/-7.340 χ^2/NDF :18.8/24
 Right Out: 5.037+/-8.161 χ^2/NDF : 38.7/31
 Left In: -5.943+/-7.550 χ^2/NDF :38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47
 Right: 5.100+/-5.870 χ^2/NDF : 61.7/59
 In: -1.010+/-5.630 χ^2/NDF :62.3/50
 Out: -10.395+/-5.457 χ^2/NDF :63.9/56
 All: -5.848+/-3.918 χ^2/NDF : 127.6/107

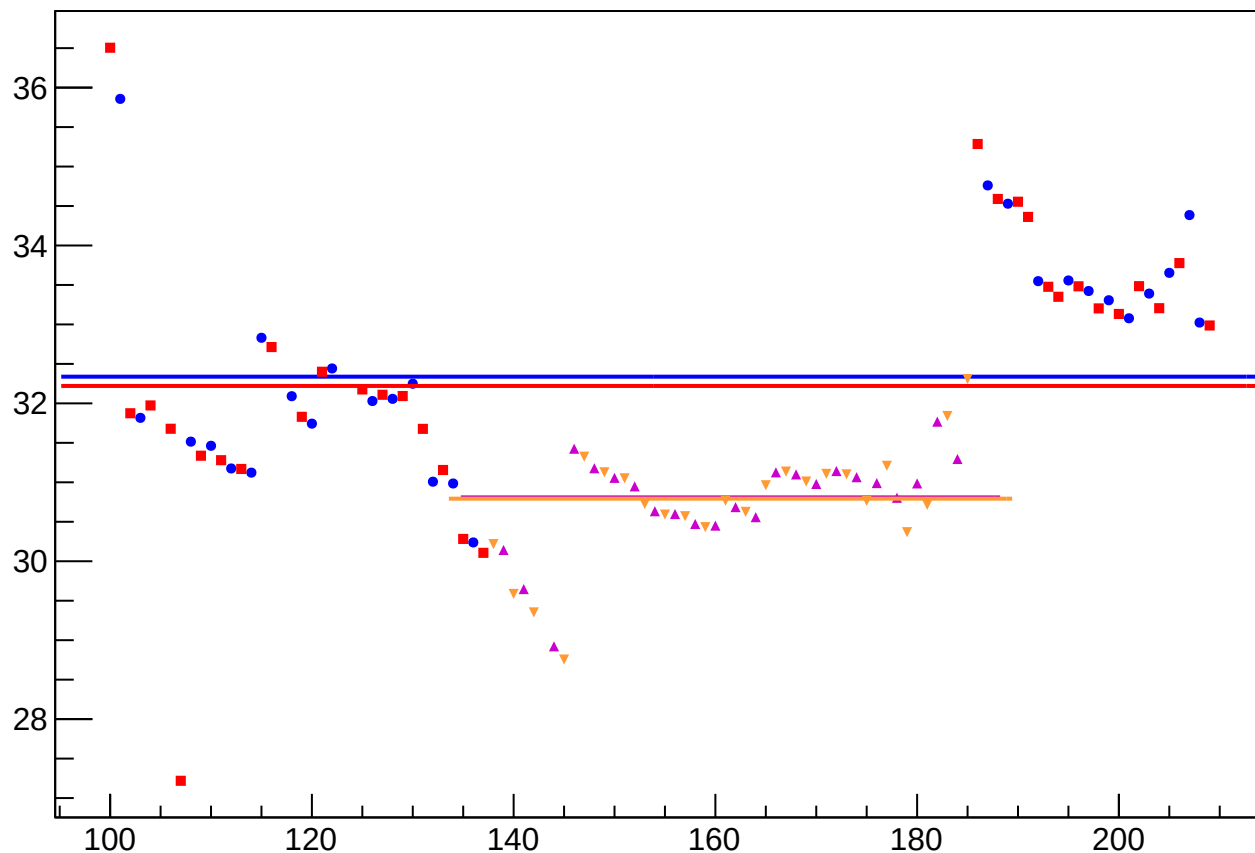
asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.304 $\pm$ 0.006 χ^2 /NDF: 3036449.1/27
 Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24
 Right Out: 30.350 $\pm$ 0.006 χ^2 /NDF: 3487109.1/31
 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: 30.328 $\pm$ 0.004 χ^2 /NDF: 6523589.0/59
 In: 30.960 $\pm$ 0.004 χ^2 /NDF:3146132.3/50
 Out: 30.976 $\pm$ 0.004 χ^2 /NDF:3590797.3/56
 All: 30.968 $\pm$ 0.003 χ^2 /NDF: 6736937.3/107

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.338+/-0.000 χ^2/NDF : 2810307012.4/26

Left Out: 30.793+/-0.000 χ^2/NDF : 1007261340.7/23

Right Out: 32.221+/-0.000 χ^2/NDF : 2377855422.3/30

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000 χ^2/NDF : 1829591088.1/46

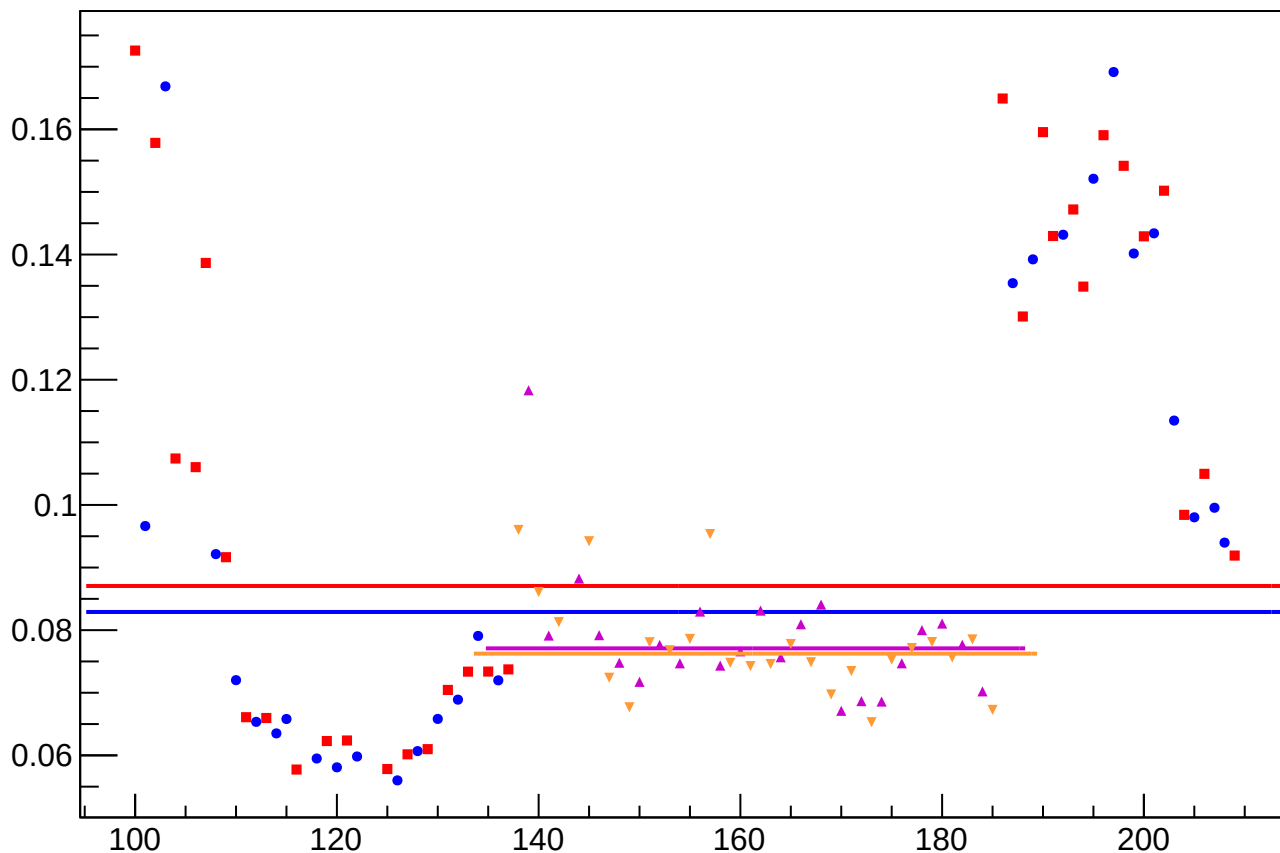
Right: 32.280+/-0.000 χ^2/NDF : 5200045293.1/57

In: 31.413+/-0.000 χ^2/NDF : 6092166882.3/49

Out: 31.338+/-0.000 χ^2/NDF : 5532403151.1/54

All: 31.375+/-0.000 χ^2/NDF : 11637083247.1

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.083+/-0.000 χ^2/NDF : 3136041.4/26

Left Out: 0.076+/-0.000 χ^2/NDF :277876.5/23

Right Out: 0.087+/-0.000 χ^2/NDF : 3609435.0/30

Left In: 0.077+/-0.000 χ^2/NDF :325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

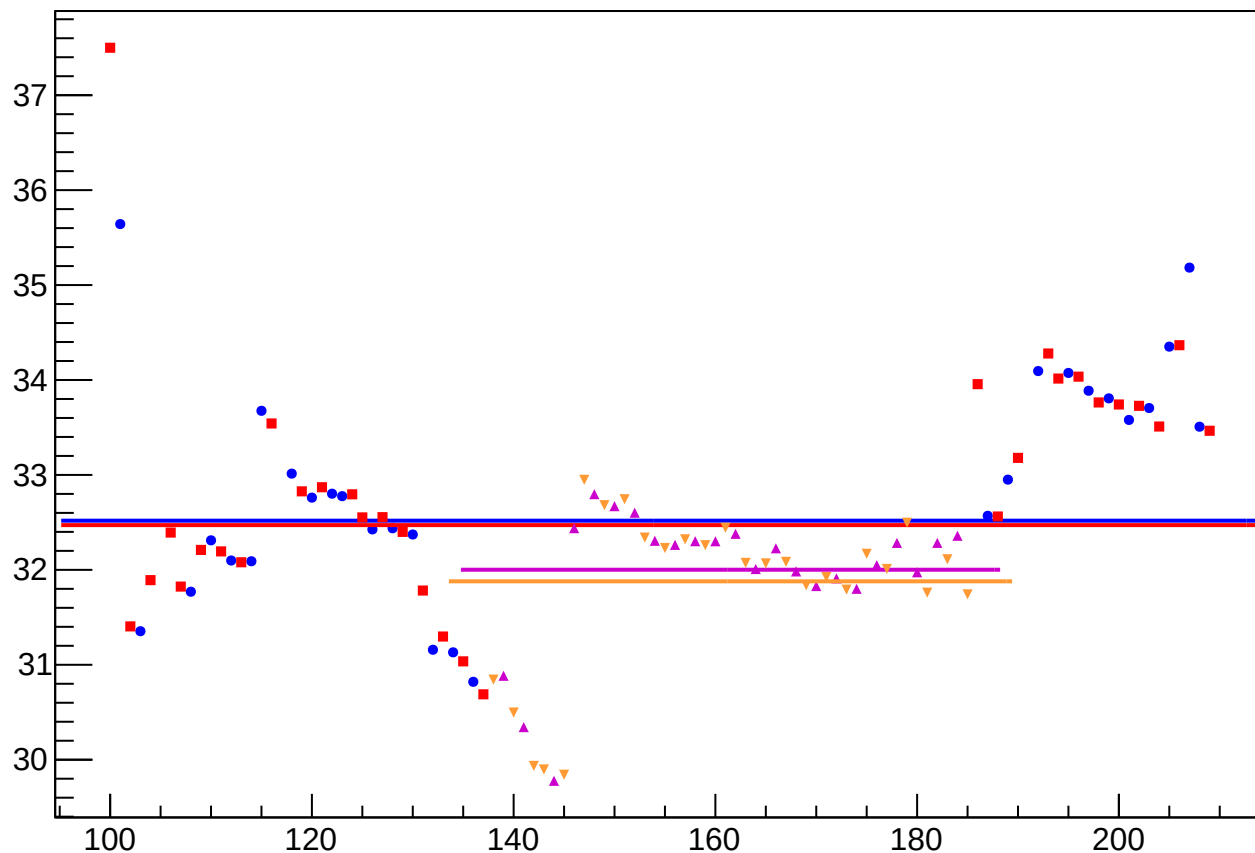
Right: 0.085+/-0.000 χ^2/NDF : 6775158.2/57

In: 0.079+/-0.000 χ^2/NDF :3532995.9/49

Out: 0.080+/-0.000 χ^2/NDF :4133362.6/54

All: 0.080+/-0.000 χ^2/NDF : 7670684.6/104

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.518 $\pm$ 0.000 χ^2 /NDF: 1516912268.4/27

Left Out: 31.879 $\pm$ 0.000 χ^2 /NDF: 1976281391.1/24

Right Out: 32.471 $\pm$ 0.000 χ^2 /NDF: 880723284.7/30

Left In: 32.001 $\pm$ 0.000 χ^2 /NDF: 1411110671.9/22

Left: 31.939 $\pm$ 0.000 χ^2 /NDF: 3408370857.8/47

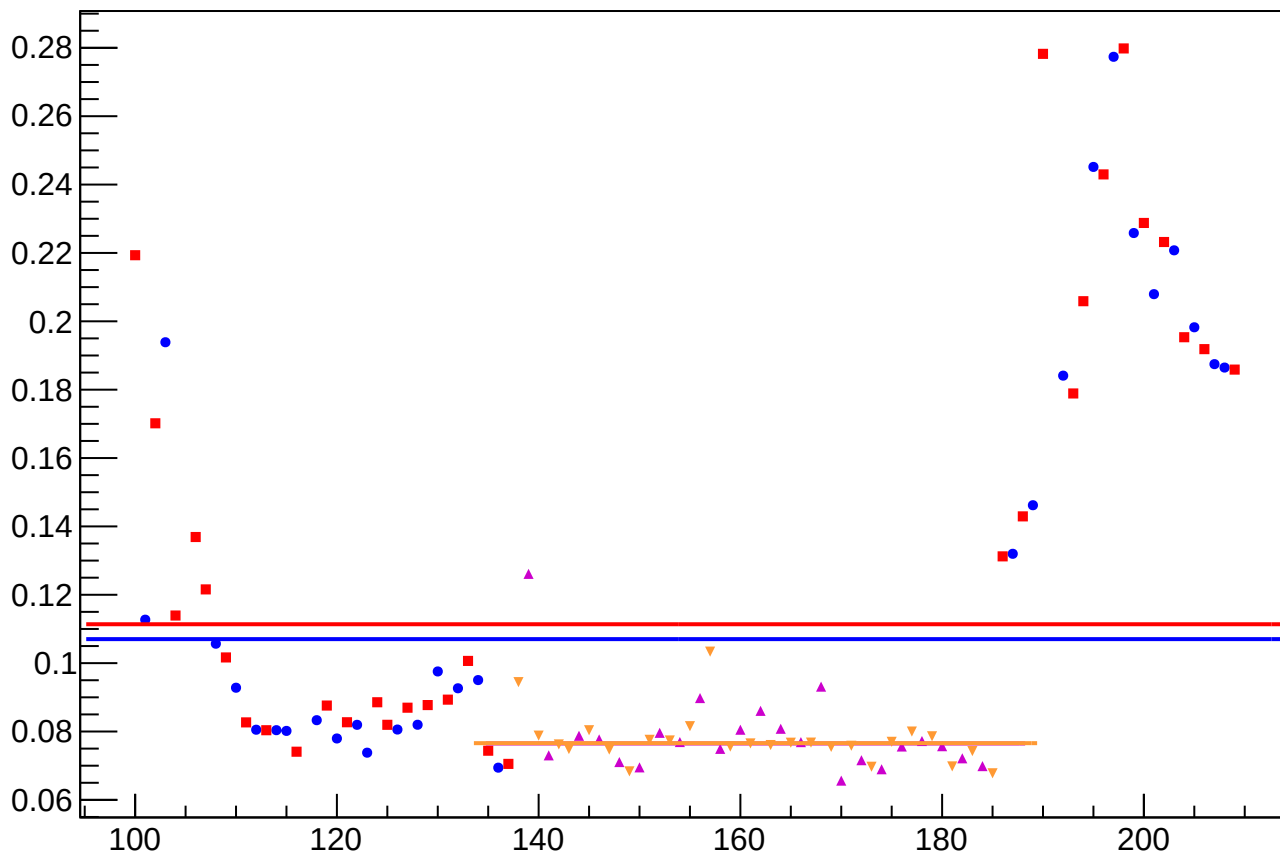
Right: 32.495 $\pm$ 0.000 χ^2 /NDF: 2398695601.1/58

In: 32.136 $\pm$ 0.000 χ^2 /NDF: 3118887993.2/50

Out: 32.029 $\pm$ 0.000 χ^2 /NDF: 3112944808.6/55

All: 32.082 $\pm$ 0.000 χ^2 /NDF: 6253246037.8/102

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.107 $\pm$ 0.000 χ^2 /NDF: 4712799.9/27

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.111 $\pm$ 0.000 χ^2 /NDF: 4582709.7/30

Left In: 0.076 $\pm$ 0.000 χ^2 /NDF:432563.3/22

Left: 0.077 $\pm$ 0.000 χ^2 /NDF: 642235.6/47

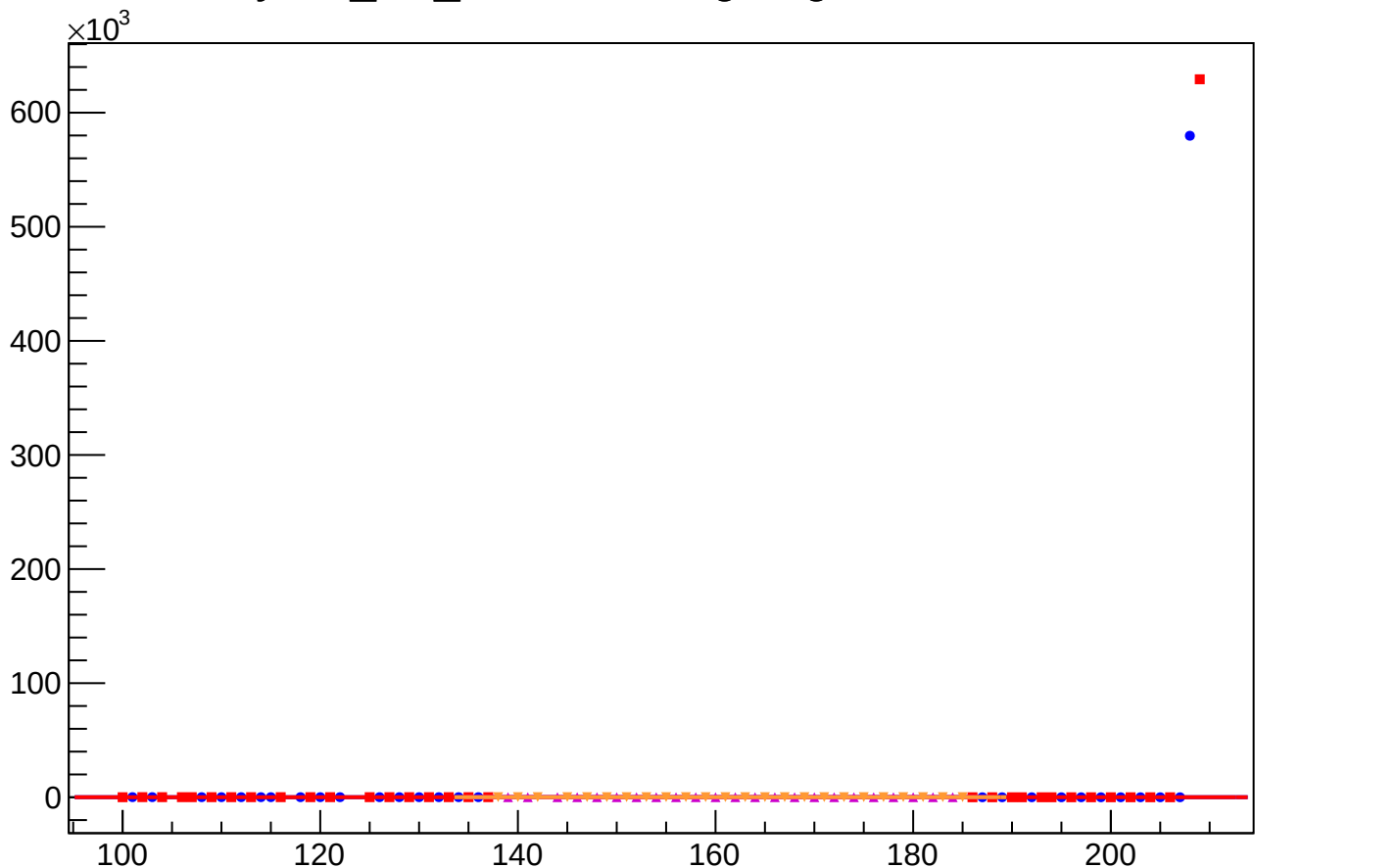
Right: 0.109 $\pm$ 0.000 χ^2 /NDF: 9313926.4/58

In: 0.084 $\pm$ 0.000 χ^2 /NDF:6478043.3/50

Out: 0.085 $\pm$ 0.000 χ^2 /NDF:6559268.9/55

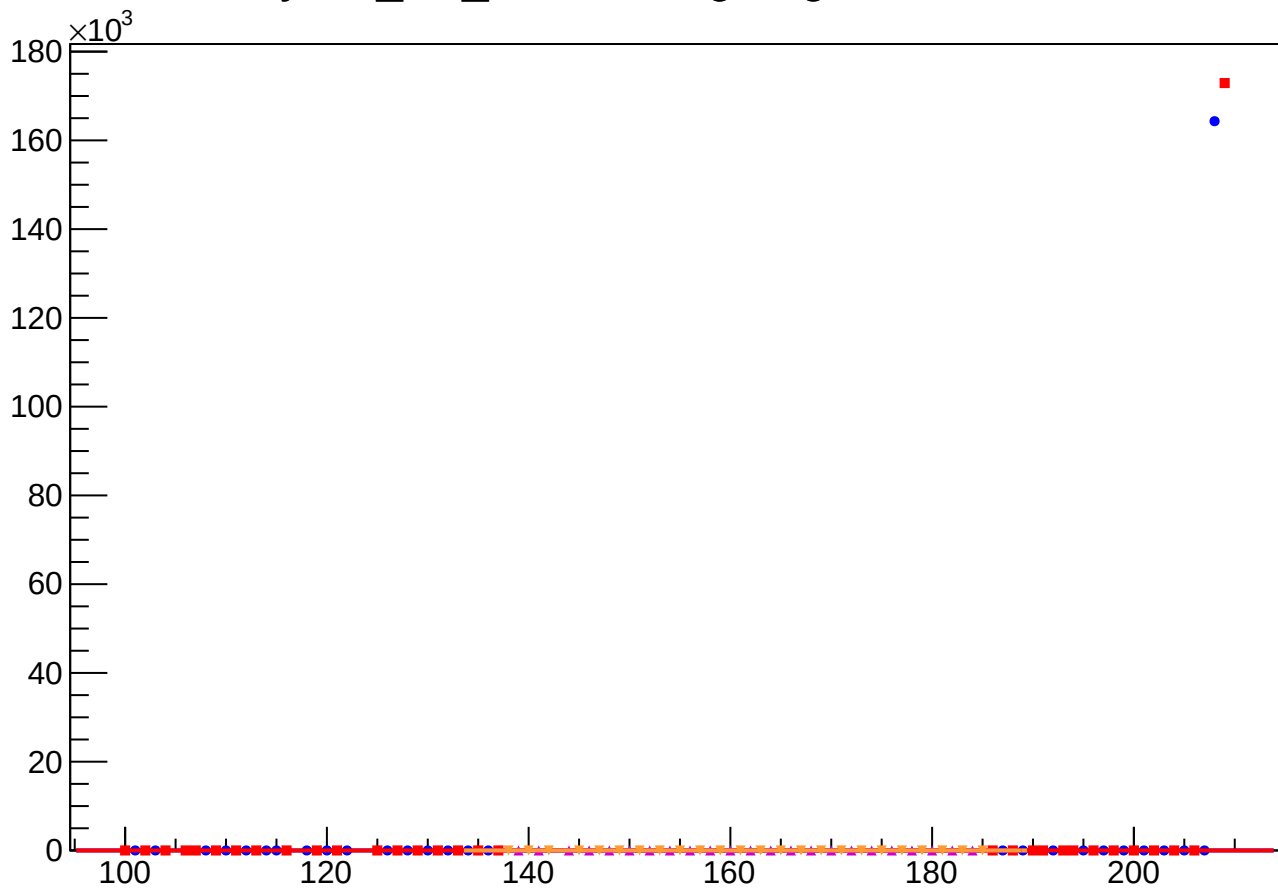
All: 0.085 $\pm$ 0.000 χ^2 /NDF: 13040899.8/106

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000	χ^2/NDF : 10853517739842.3/26	Left: 83.355+/-0.000	χ^2/NDF : 17213898269.1/46
Left Out: 83.402+/-0.000	χ^2/NDF : 8756634444.3/23	Right: 52.782+/-0.000	χ^2/NDF : 22419847920835.1/46
Right Out: 51.099+/-0.000	χ^2/NDF : 11528422699502.5/30	In: 71.422+/-0.000	χ^2/NDF : 13699354552540.3/49
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 69.320+/-0.000	χ^2/NDF : 15306975462599.1/50
		All: 70.353+/-0.000	χ^2/NDF : 2903825569076.1/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047+/-0.000 χ^2/NDF : 1830164.9/26

Left Out: 0.045+/-0.000 χ^2/NDF : 206685.9/23

Right Out: 0.047+/-0.000 χ^2/NDF : 2222119.2/30

Left In: 0.045+/-0.000 χ^2/NDF : 242885.4/22

Left: 0.045+/-0.000 χ^2/NDF : 450258.5/46

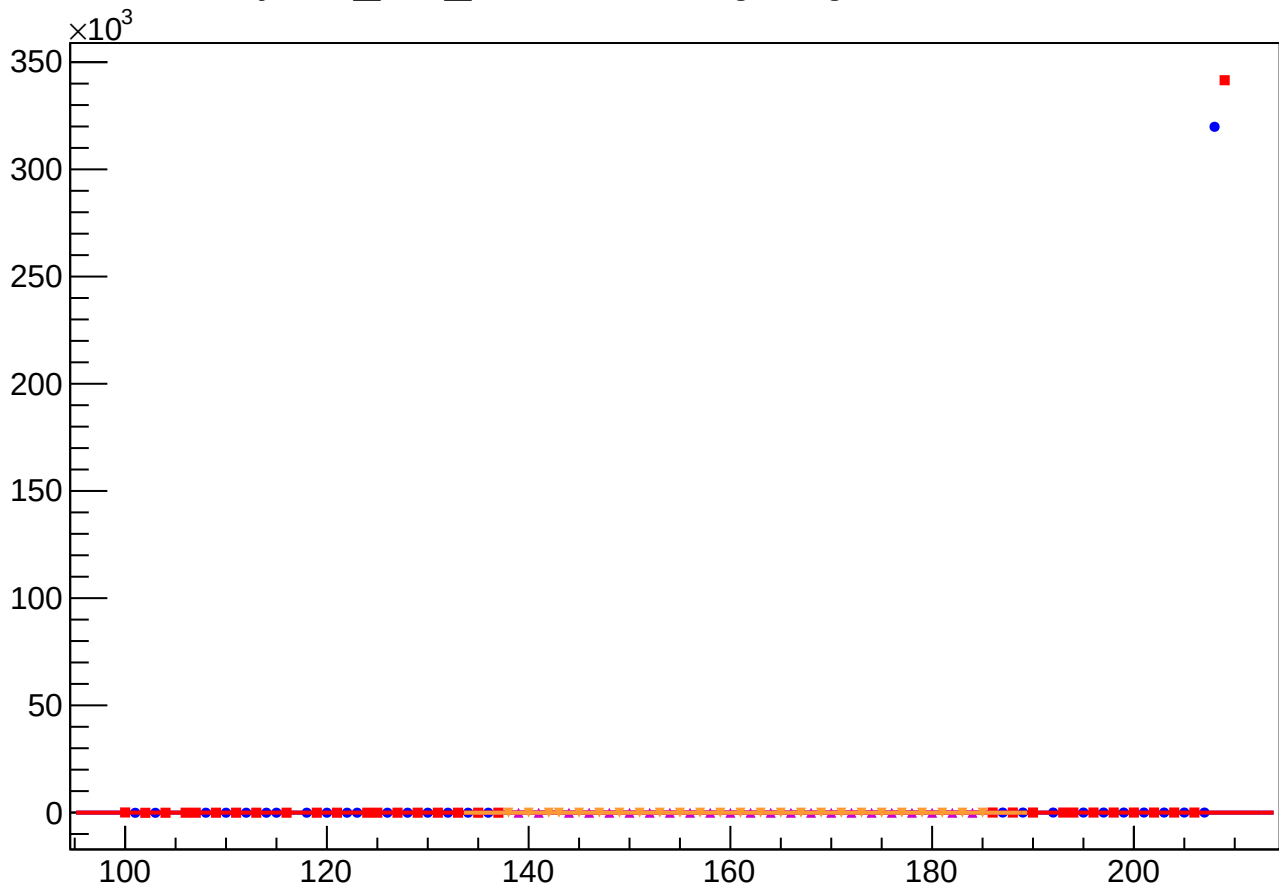
Right: 0.047+/-0.000 χ^2/NDF : 4052287.9/57

In: 0.046+/-0.000 χ^2/NDF : 2099479.6/49

Out: 0.046+/-0.000 χ^2/NDF : 2448371.5/54

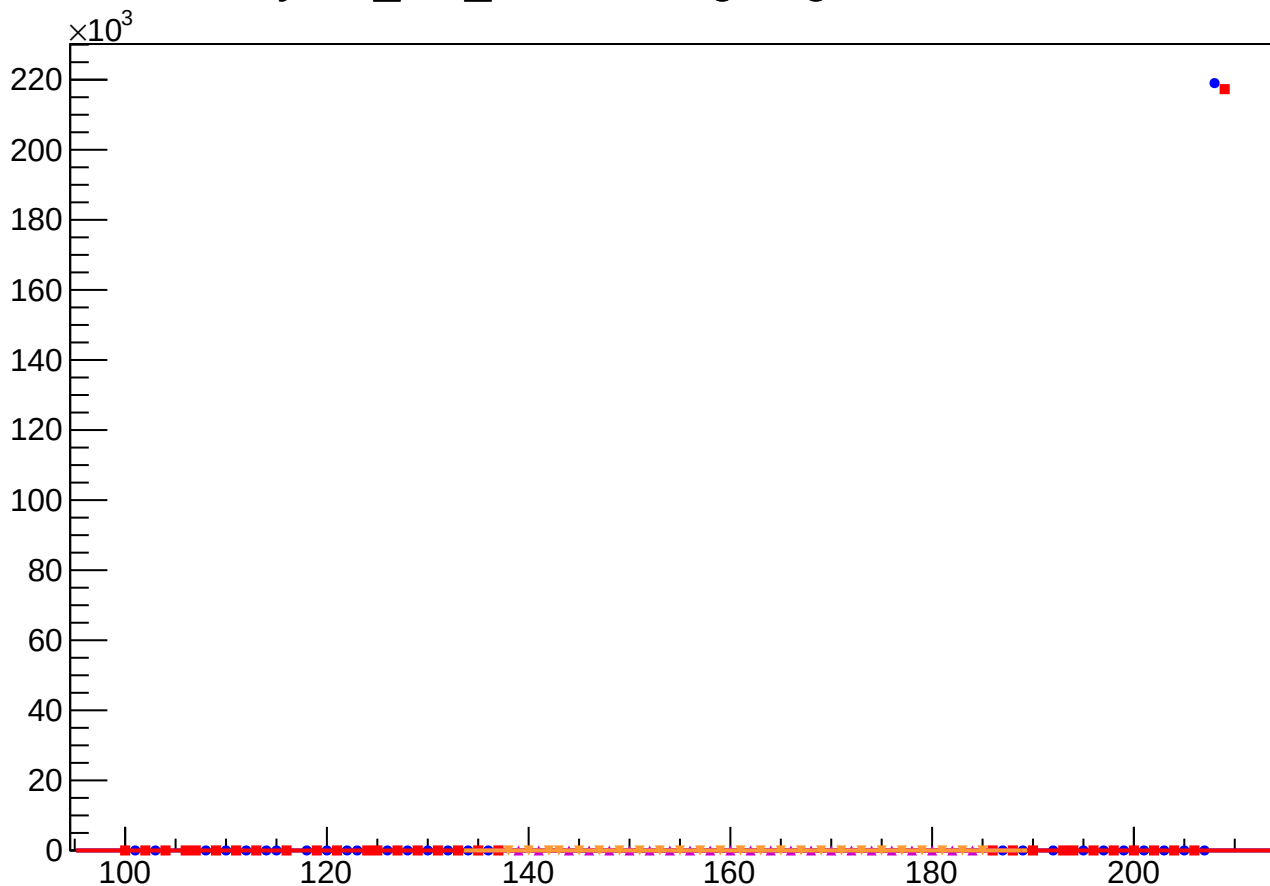
All: 0.046+/-0.000 χ^2/NDF : 4548394.1/104

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000	χ^2/NDF : 7479128717948.2/27	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -29.369+/-0.000	χ^2/NDF : 14808899521005.6
Right Out: -28.760+/-0.000	χ^2/NDF : 7325681396273.6/30	In: -50.762+/-0.000	χ^2/NDF : 11497070311965.3/5
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -50.075+/-0.000	χ^2/NDF : 11926090687911.2/
		All: -50.406+/-0.000	χ^2/NDF : 234256933297

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 1388494.2/27

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 1735486.8/30

Left In: 0.056 $\pm$ 0.000 χ^2 /NDF:52190.5/22

Left: 0.055 $\pm$ 0.000 χ^2 /NDF: 91784.6/47

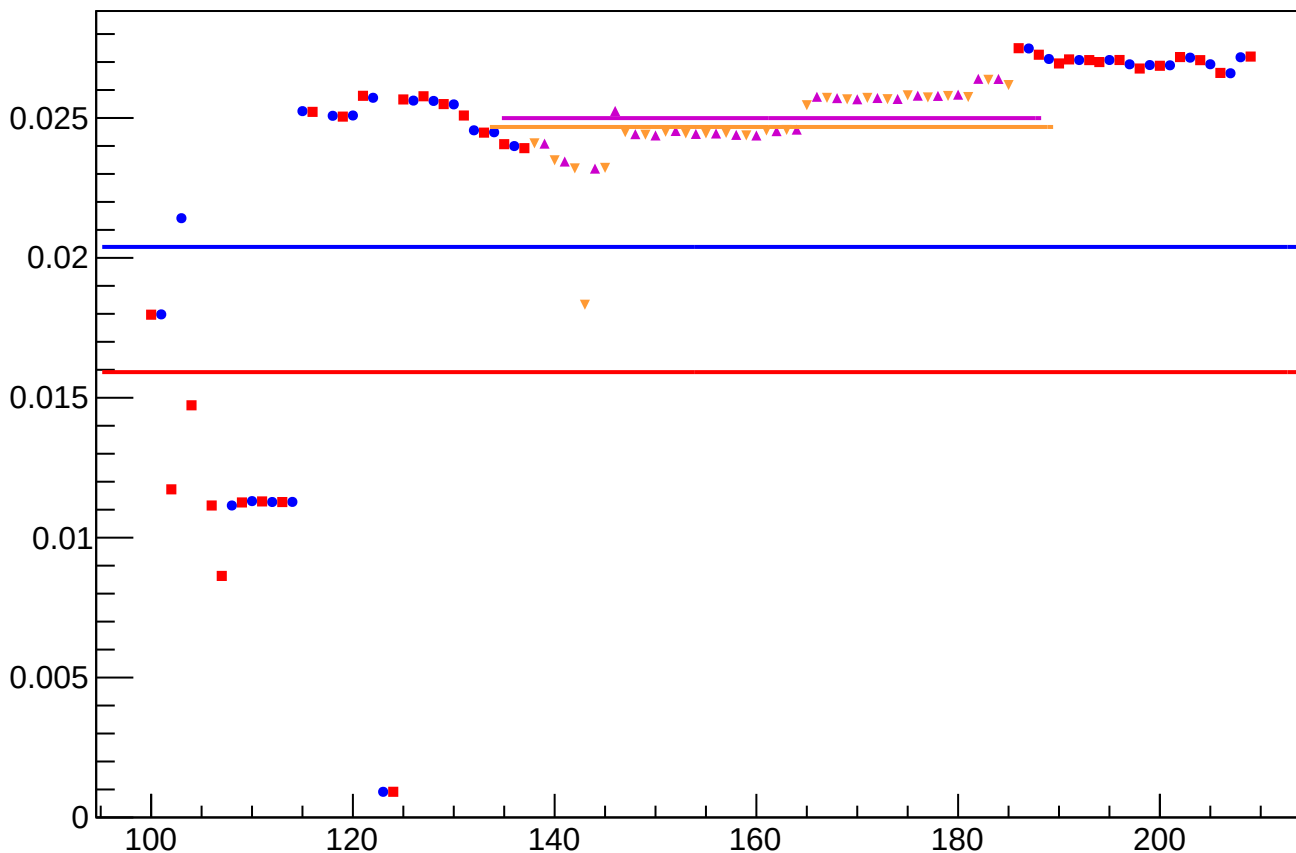
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 3124029.0/58

In: 0.054 $\pm$ 0.000 χ^2 /NDF:1502545.7/50

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:1830140.7/55

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 3333384.1/106

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.020+/-0.000

χ^2/NDF : 184955499219.5/27

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.018+/-0.000

χ^2/NDF : 621541983634.6/59

Right Out: 0.016+/-0.000

χ^2/NDF : 407377909116.7/31

In: 0.023+/-0.000

χ^2/NDF : 218850229455.6/50

Out: 0.021+/-0.000

χ^2/NDF : 553120619756.7/56

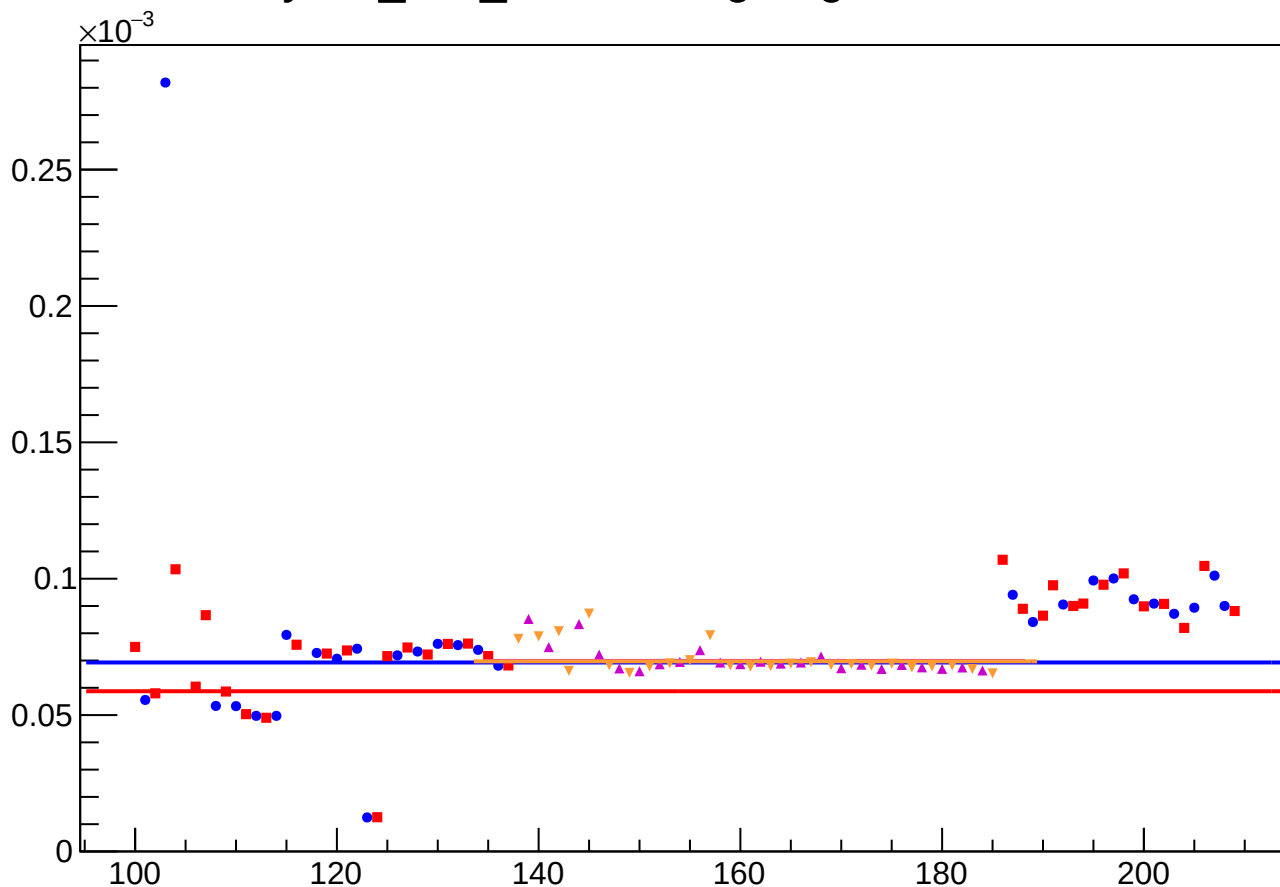
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 793357105198.9

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3495220.9/27

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 6855947.8/31

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

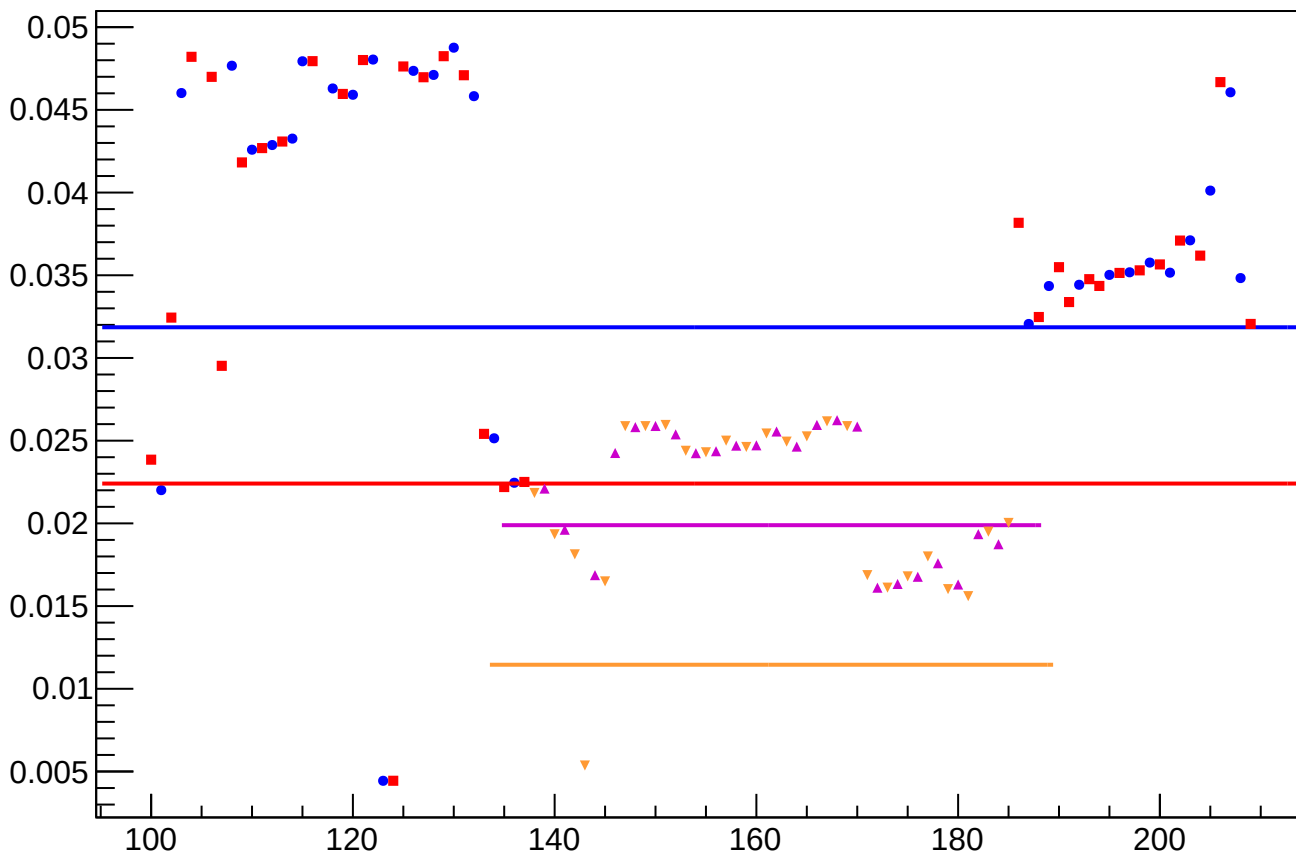
Right: 0.000+/-0.000 χ^2/NDF : 10675424.0/59

In: 0.000+/-0.000 χ^2/NDF :3625459.5/50

Out: 0.000+/-0.000 χ^2/NDF :7440454.9/56

All: 0.000+/-0.000 χ^2/NDF : 11238497.3/107

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 21752114017.9/27

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 : 71022176947.2/59

Right Out: 0.022+/-0.000

χ^2/NDF : 44426990702.0/31

In: 0.023+/-0.000

χ^2/NDF : 35960235549.0/50

Out: 0.013+/-0.000

χ^2/NDF : 98726999561.4/56

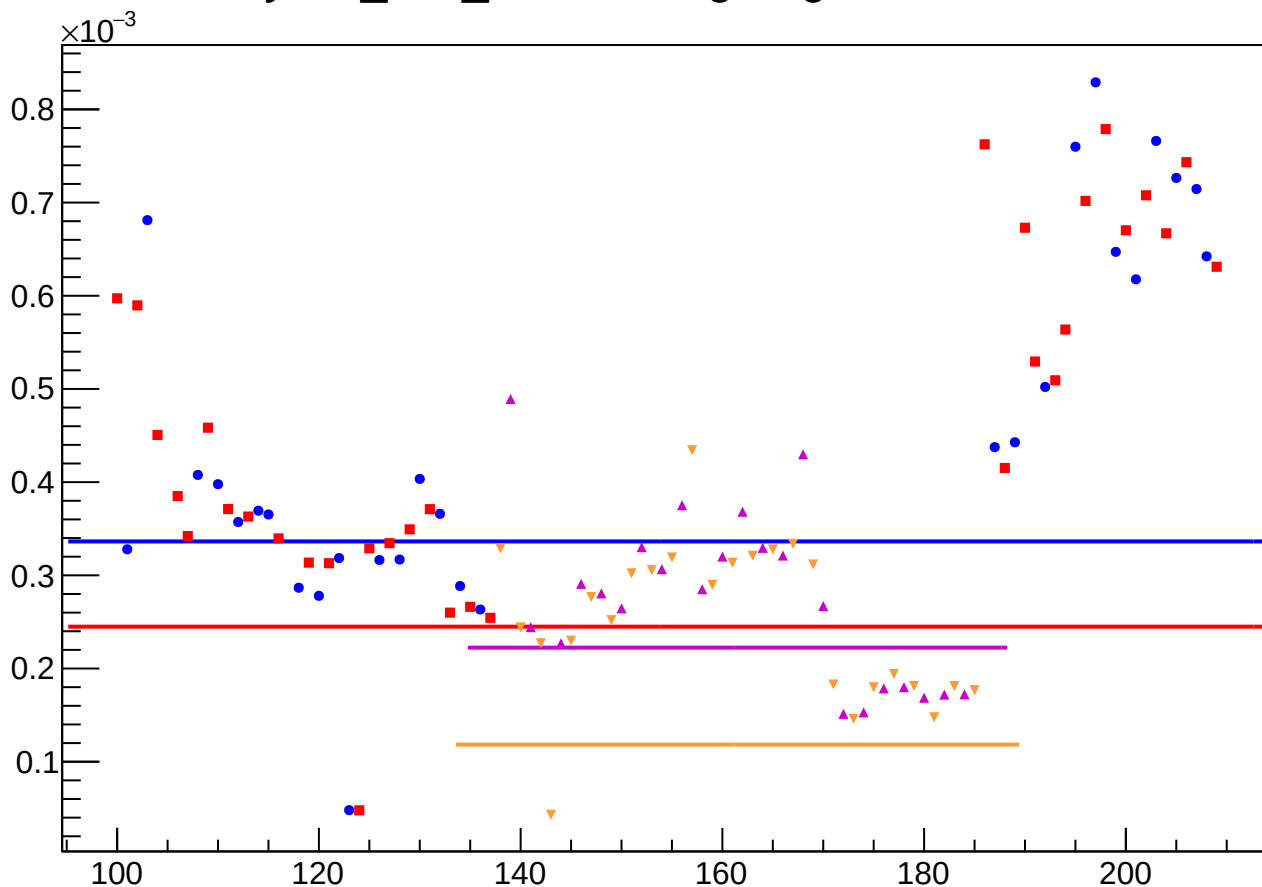
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 158171315113.0

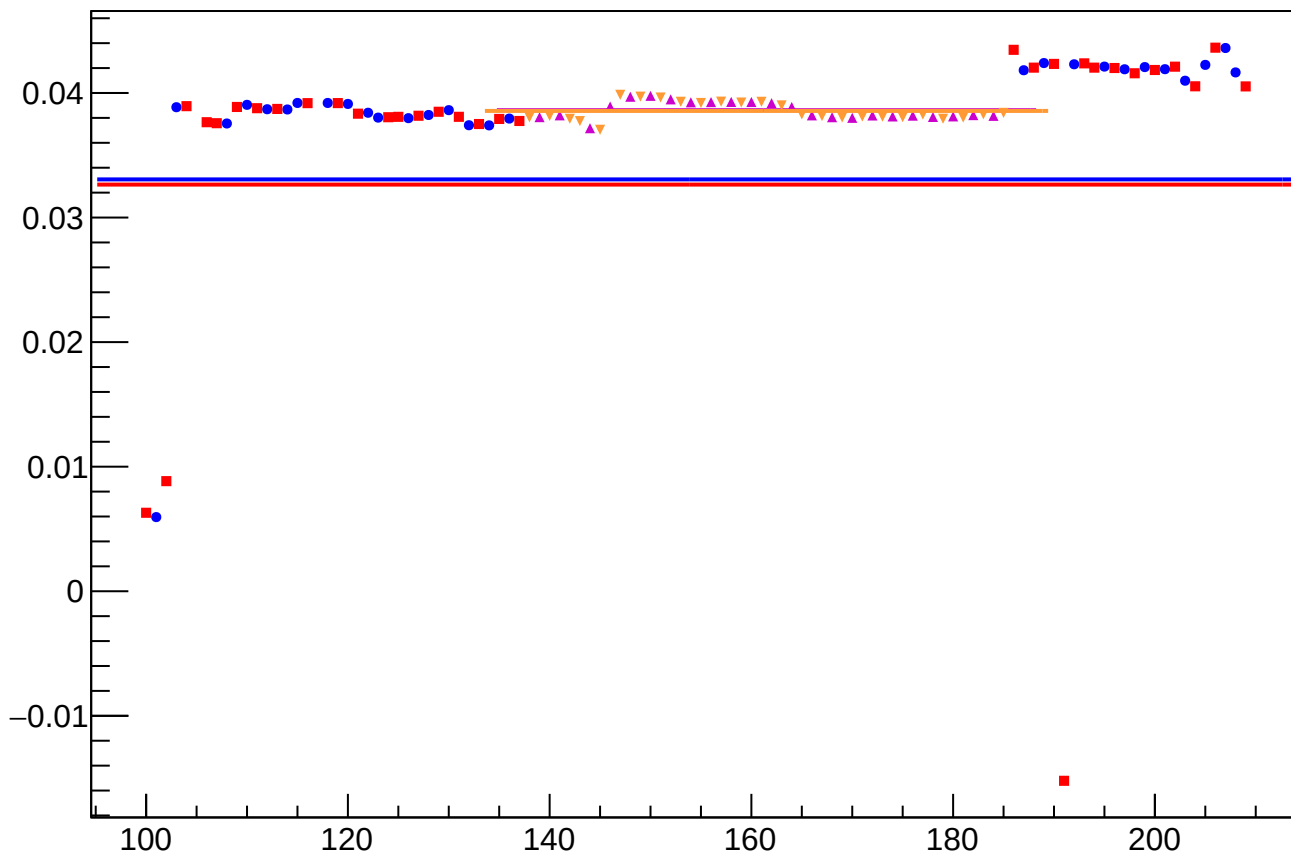
yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 6667658.7/27
 Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24
 Right Out: 0.000+/-0.000 χ^2/NDF : 12440831.0/31
 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 : 20016045.1/59
 In: 0.000+/-0.000 χ^2/NDF :11717602.4/50
 Out: 0.000+/-0.000 χ^2/NDF :29741730.8/56
 All: 0.000+/-0.000 χ^2/NDF : 47832630.6/107

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.033+/-0.000

χ^2/NDF : 116357007707.3/27

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.033+/-0.000

χ^2/NDF : 298136446958.4/59

Right Out: 0.033+/-0.000

χ^2/NDF : 181722939351.7/31

In: 0.036+/-0.000

χ^2/NDF : 128943858902.4/50

Out: 0.036+/-0.000

χ^2/NDF : 196614692591.2/56

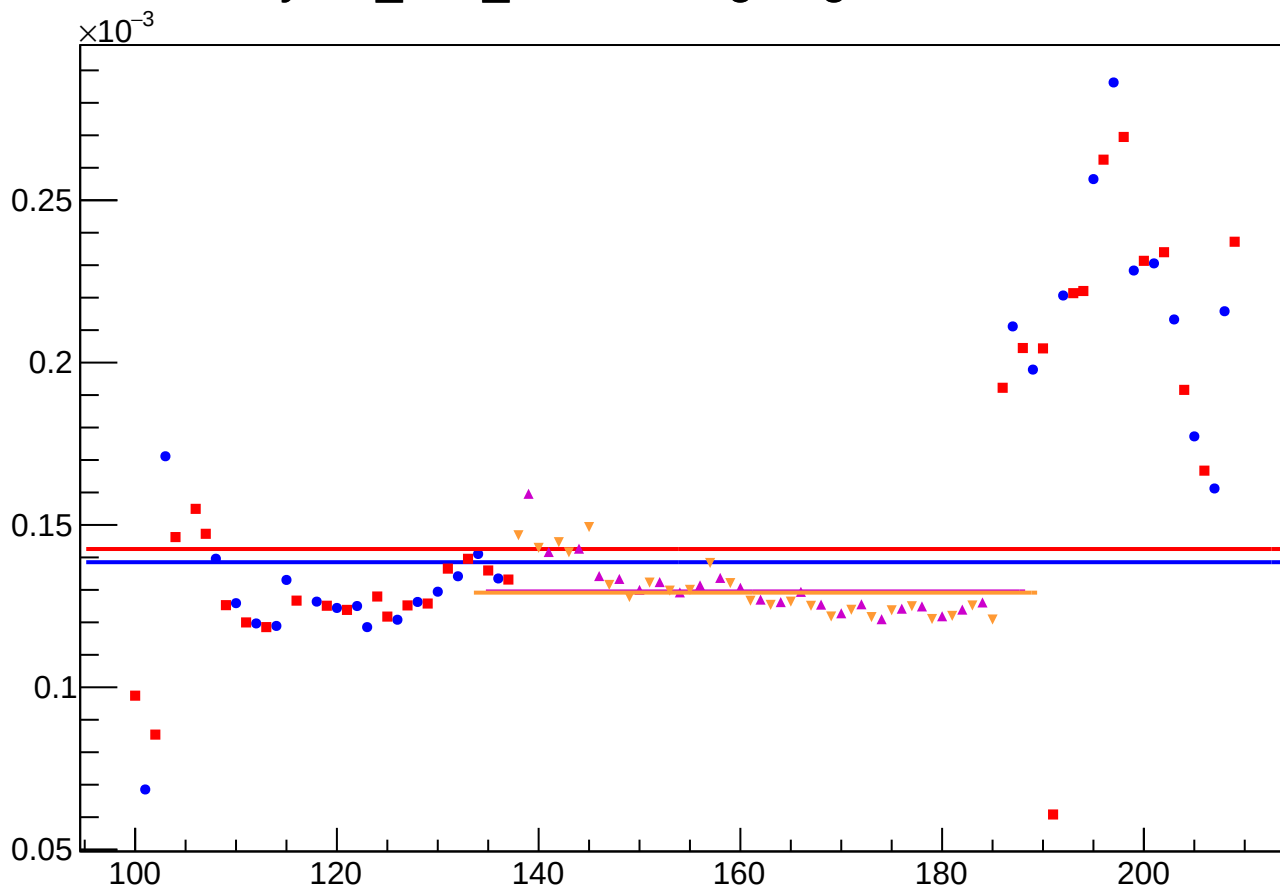
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.036+/-0.000

χ^2/NDF : 325580965187.2

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3359350.7/27

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3274116.3/31

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

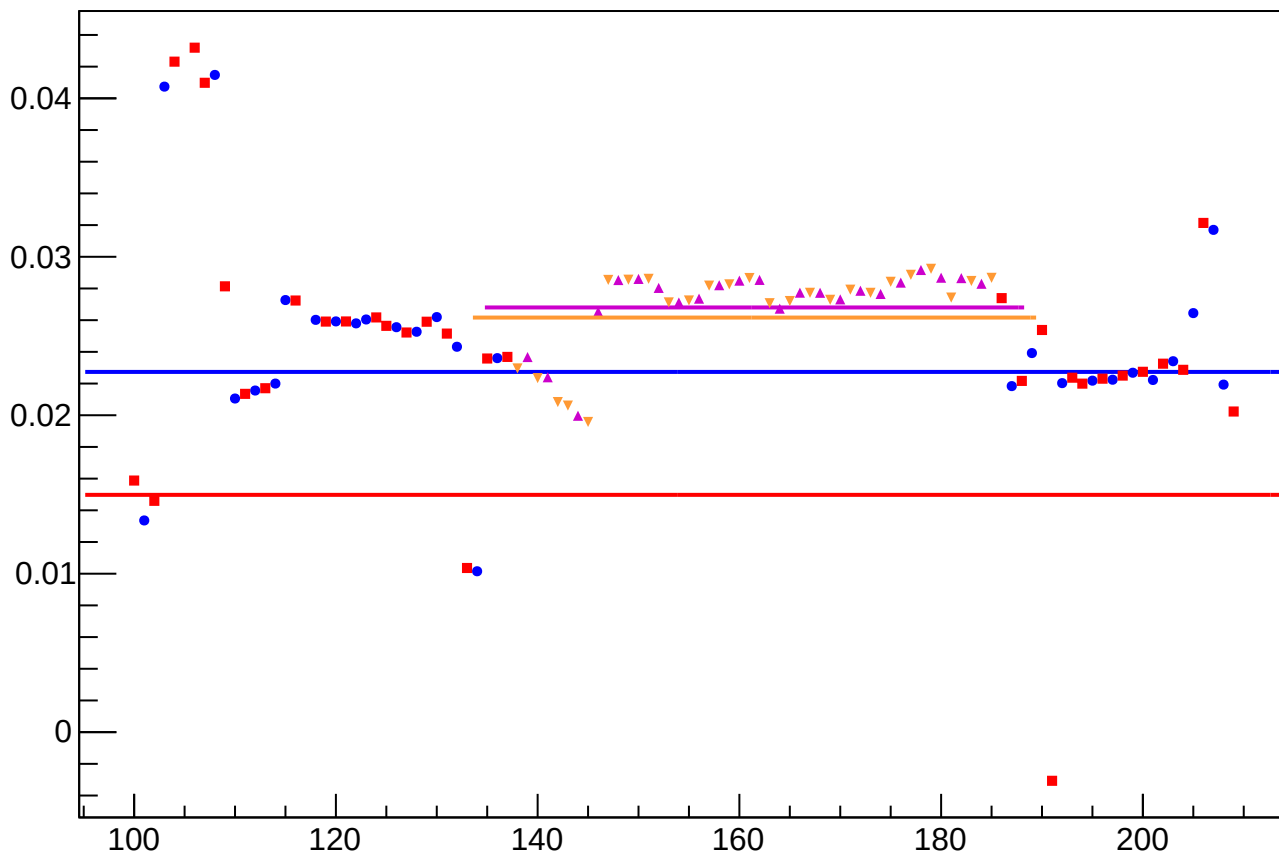
Right: 0.000+/-0.000 χ^2/NDF : 6644196.0/59

In: 0.000+/-0.000 χ^2/NDF :3537687.2/50

Out: 0.000+/-0.000 χ^2/NDF :3552645.5/56

All: 0.000+/-0.000 χ^2/NDF : 7093010.5/107

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4402556883.5/27

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.015+/-0.000 χ^2/NDF : 31594438843.5/31

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

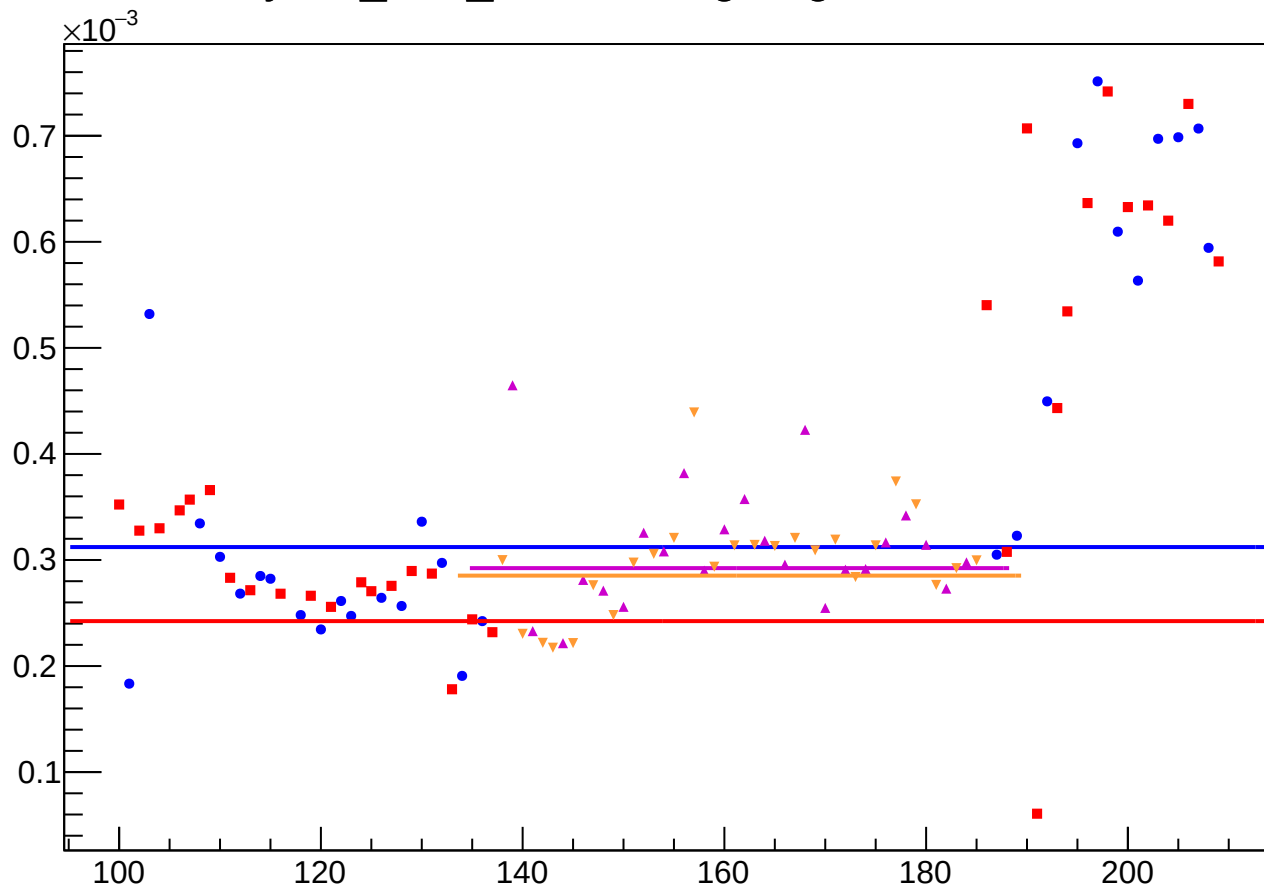
Right: 0.018+/-0.000 χ^2/NDF : 40046906665.5/59

In: 0.025+/-0.000 χ^2/NDF : 6893216126.7/50

Out: 0.021+/-0.000 χ^2/NDF : 45074652793.4/56

All: 0.023+/-0.000 χ^2/NDF : 54822730672.2/131

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4725607.8/27

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 9370484.1/31

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

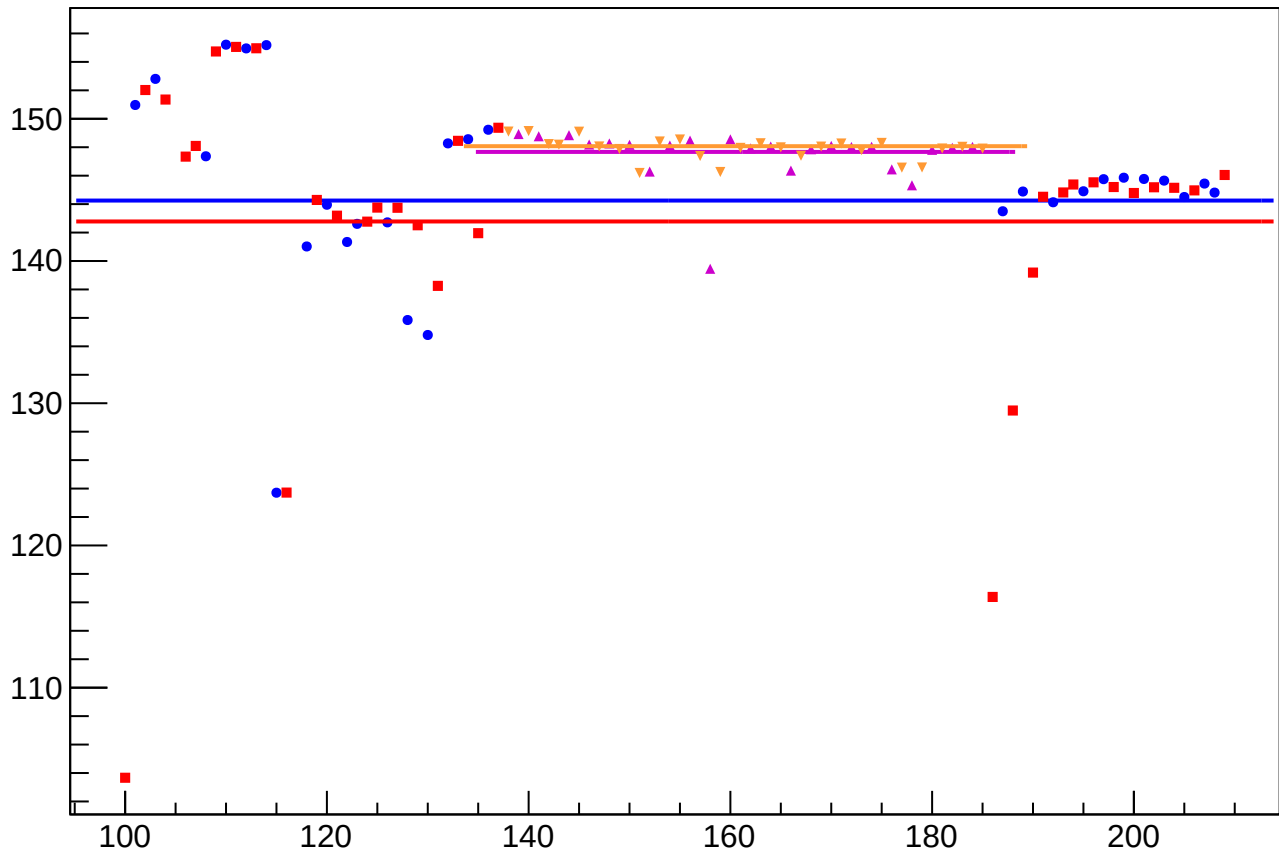
Right: 0.000+/-0.000 χ^2/NDF : 14752258.3/59

In: 0.000+/-0.000 χ^2/NDF :5679614.7/50

Out: 0.000+/-0.000 χ^2/NDF :10519800.0/56

All: 0.000+/-0.000 χ^2/NDF : 16580644.1/107

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.250+/-0.000

χ^2/NDF : 3489909513.7/27

Left Out: 148.073+/-0.000

χ^2/NDF : 65614067.4/24

Right Out: 142.780+/-0.000

χ^2/NDF : 7430134295.1/31

Left In: 147.670+/-0.000

χ^2/NDF : 345222604.4/22

Left: 147.879+/-0.000

χ^2/NDF : 418091602.5/47

Right: 143.472+/-0.000

χ^2/NDF : 11016613516.7/59

In: 145.981+/-0.000

χ^2/NDF : 4334506387.0/50

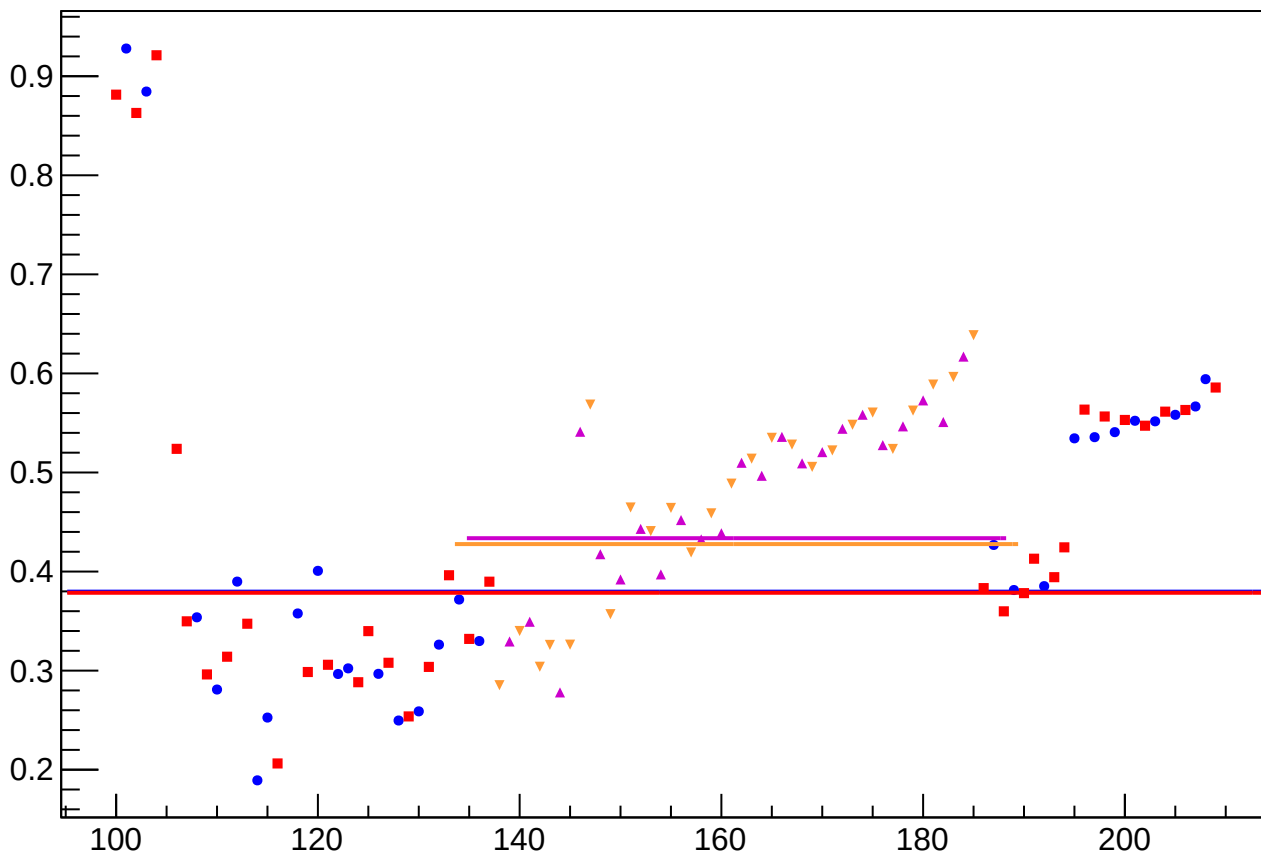
Out: 145.396+/-0.000

χ^2/NDF : 8810293666.2/56

All: 145.675+/-0.000

χ^2/NDF : 13175421416.2/100

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.380 $\pm$ 0.000 χ^2 /NDF: 2884943.9/27

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.379 $\pm$ 0.000 χ^2 /NDF: 2720200.4/31

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

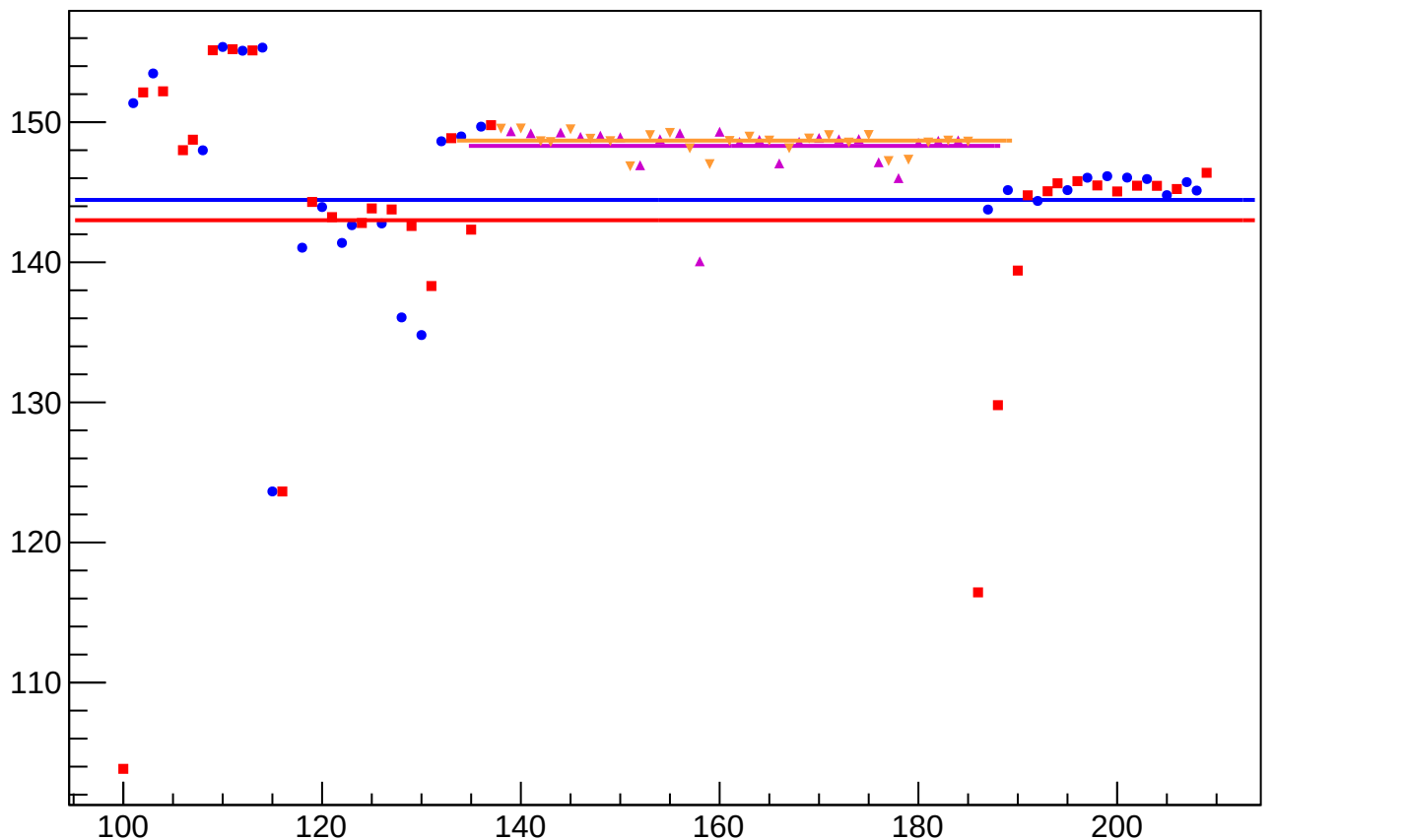
Right: 0.379 $\pm$ 0.000 χ^2 /NDF: 5605257.9/59

In: 0.407 $\pm$ 0.000 χ^2 /NDF:4629732.7/50

Out: 0.403 $\pm$ 0.000 χ^2 /NDF:4843510.7/56

All: 0.405 $\pm$ 0.000 χ^2 /NDF: 9476317.1/107

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.451 ± 0.000 $\chi^2/\text{NDF}: 3539262132.4/27$

Left Out: 148.686 ± 0.000 $\chi^2/\text{NDF}: 52218185.1/24$

Right Out: 143.002 ± 0.000 $\chi^2/\text{NDF}: 7379885476.4/31$

Left In: 148.307 ± 0.000 $\chi^2/\text{NDF}: 333585558.2/22$

Left: 148.504 ± 0.000 $\chi^2/\text{NDF}: 392094013.2/47$

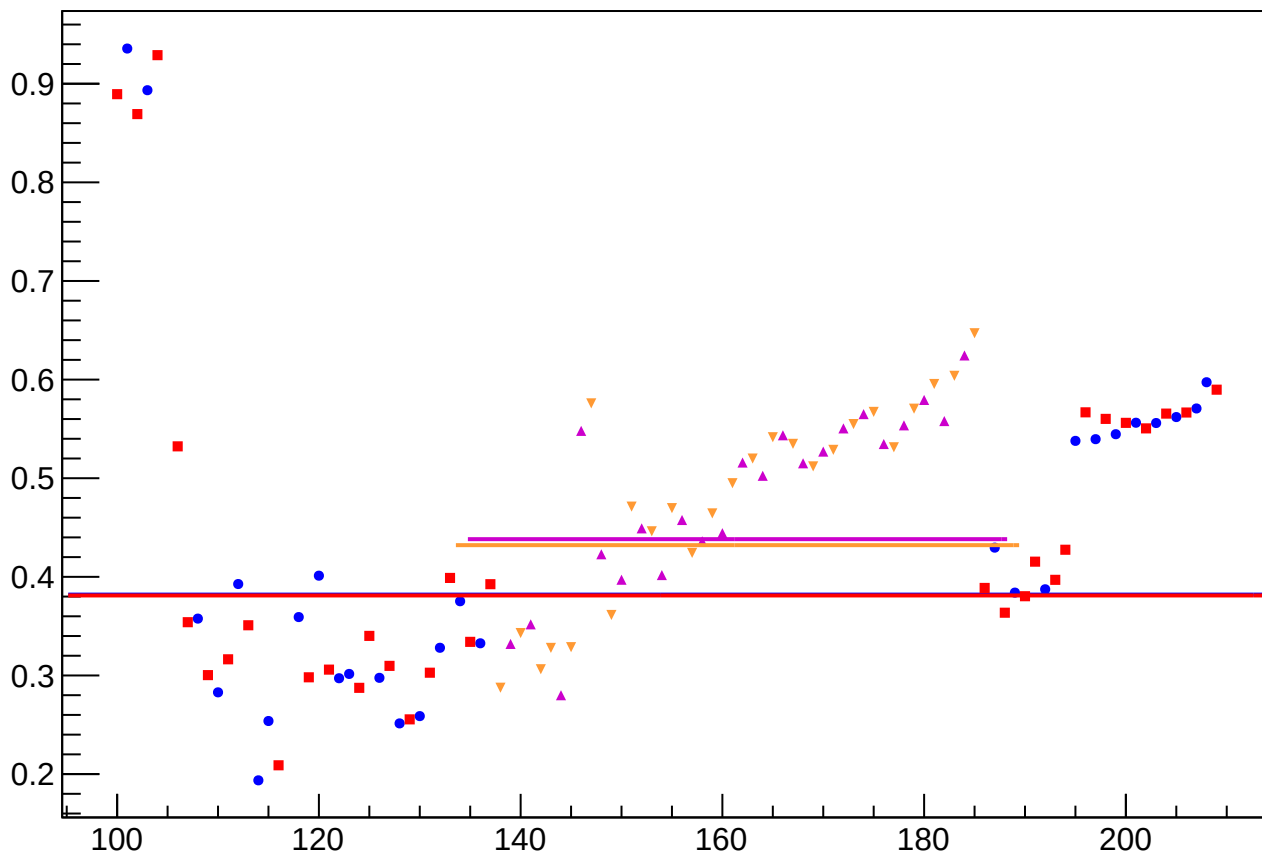
Right: 143.684 ± 0.000 $\chi^2/\text{NDF}: 11011741828.2/59$

In: 146.394 ± 0.000 $\chi^2/\text{NDF}: 4497247620.2/50$

Out: 145.800 ± 0.000 $\chi^2/\text{NDF}: 8922068353.0/56$

All: 146.083 ± 0.000 $\chi^2/\text{NDF}: 13450275711.0/100$

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 2892929.0/27

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.381 $\pm$ 0.000 χ^2 /NDF: 2724023.6/31

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

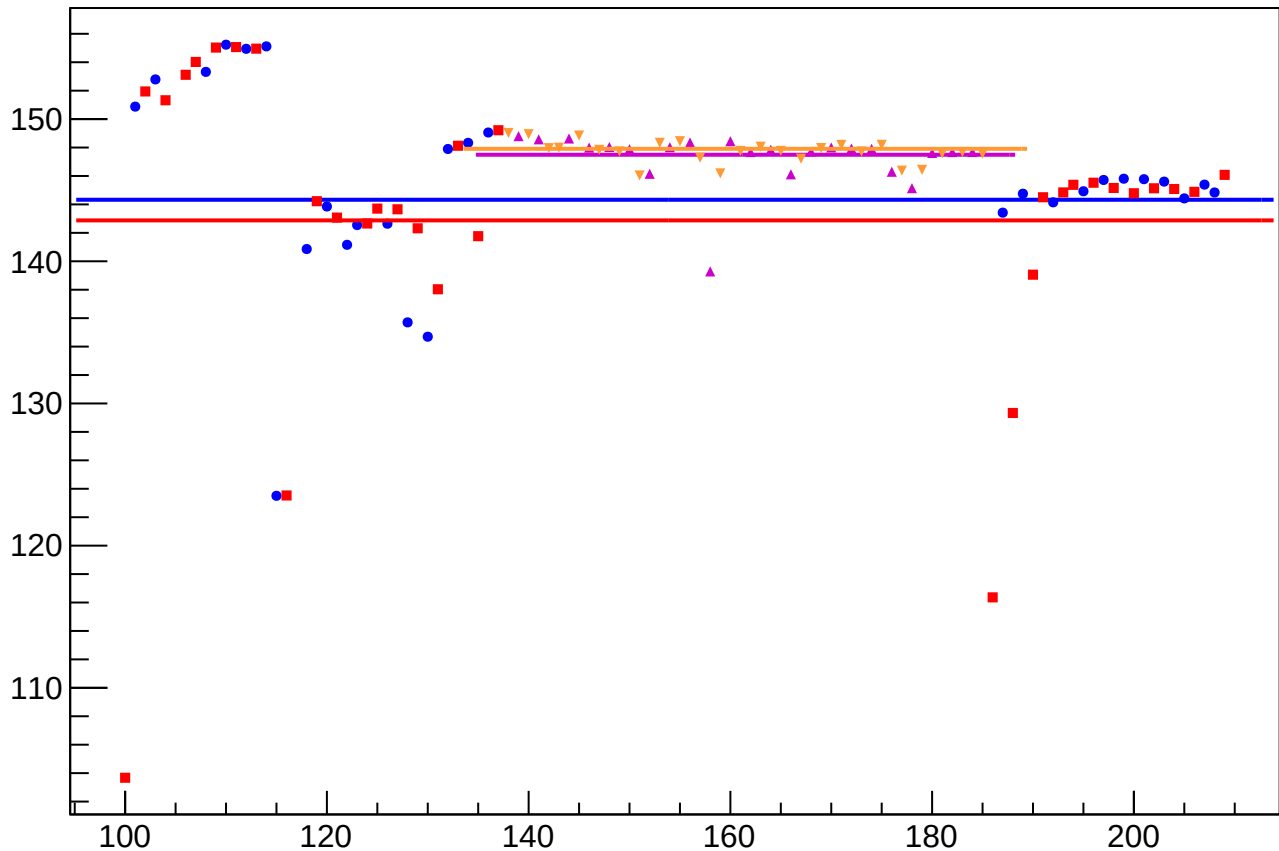
Right: 0.382 $\pm$ 0.000 χ^2 /NDF: 5617018.8/59

In: 0.410 $\pm$ 0.000 χ^2 /NDF:4680211.0/50

Out: 0.406 $\pm$ 0.000 χ^2 /NDF:4892967.0/56

All: 0.408 $\pm$ 0.000 χ^2 /NDF: 9576104.8/107

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.328 $\pm$ 0.000 χ^2 /NDF: 3696088295.9/27

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 142.876 $\pm$ 0.000 χ^2 /NDF: 7805821447.7/31

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

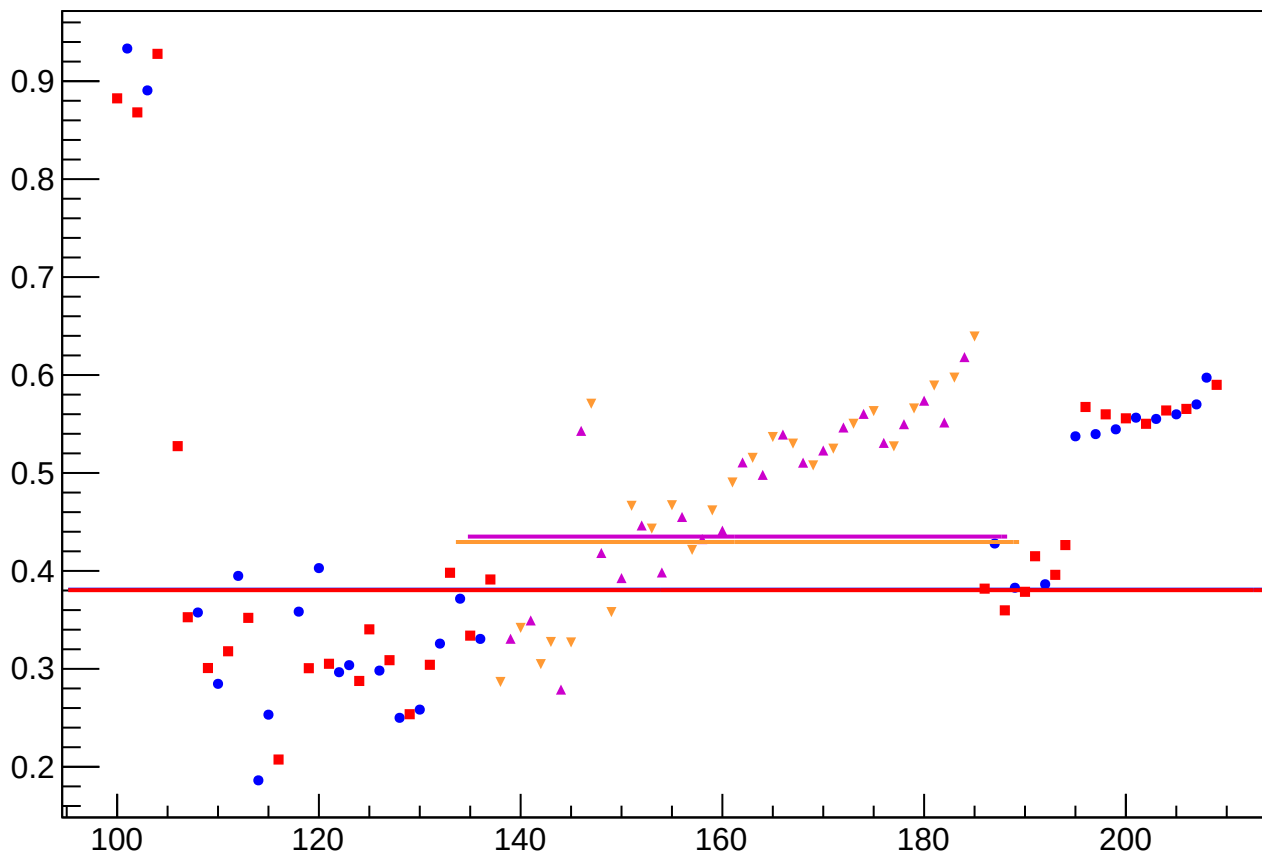
Right: 143.560 $\pm$ 0.000 χ^2 /NDF: 11595295167.7/59

In: 145.931 $\pm$ 0.000 χ^2 /NDF: 4464933338.0/50

Out: 145.366 $\pm$ 0.000 χ^2 /NDF: 9049524296.7/56

All: 145.635 $\pm$ 0.000 χ^2 /NDF: 13542768143.0/100

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.381+/-0.000 χ^2/NDF : 2918944.6/27

Left Out: 0.430+/-0.000 χ^2/NDF :1895701.4/24

Right Out: 0.380+/-0.000 χ^2/NDF : 2725641.0/31

Left In: 0.435+/-0.000 χ^2/NDF :1502712.5/22

Left: 0.432+/-0.000 χ^2/NDF : 3401133.5/47

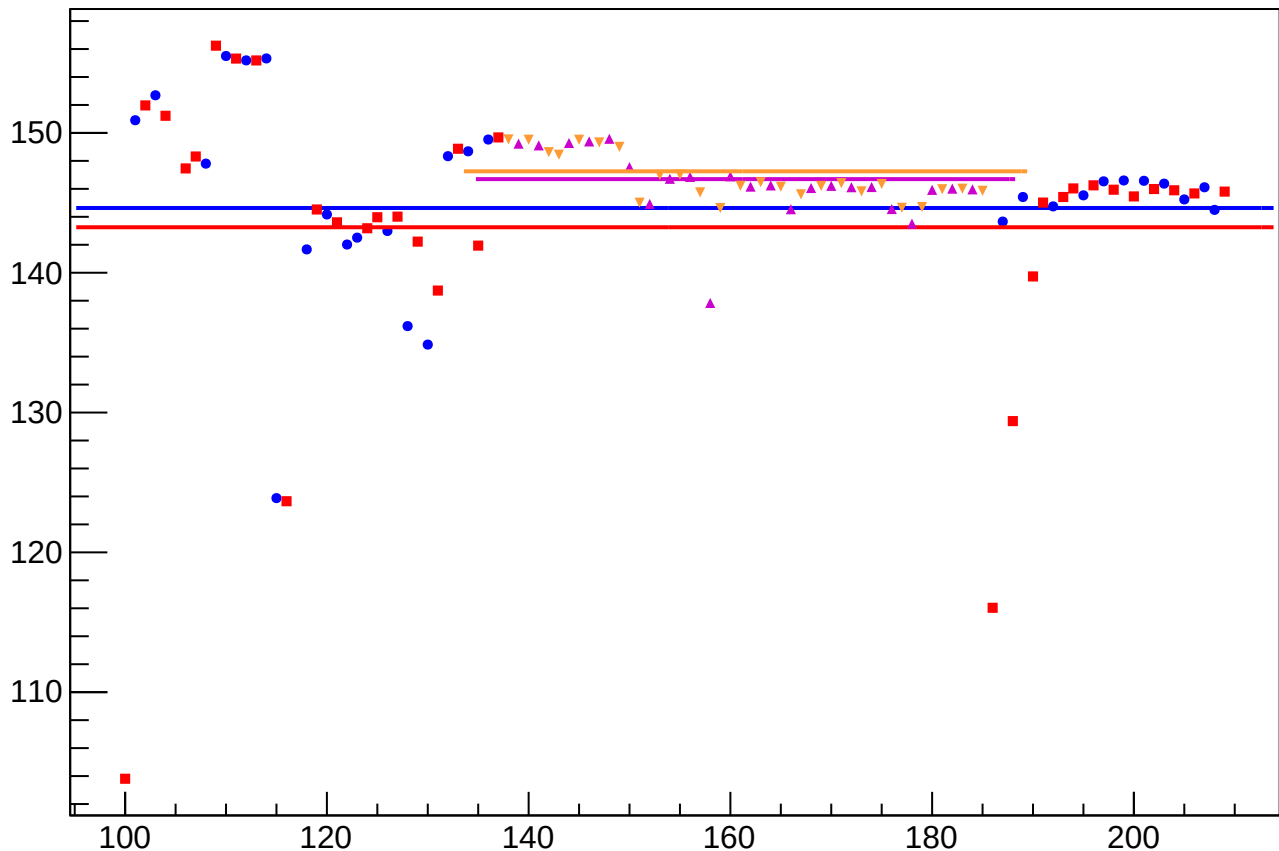
Right: 0.381+/-0.000 χ^2/NDF : 5644607.7/59

In: 0.408+/-0.000 χ^2/NDF :4670781.3/50

Out: 0.405+/-0.000 χ^2/NDF :4846224.7/56

All: 0.406+/-0.000 χ^2/NDF : 9519346.8/107

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.631 $\pm$ 0.000 χ^2 /NDF: 3222061488.8/27

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 143.253 $\pm$ 0.000 χ^2 /NDF: 7134853718.2/31

Left In: 146.695 $\pm$ 0.000 χ^2 /NDF: 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2 /NDF: 833217060.4/47

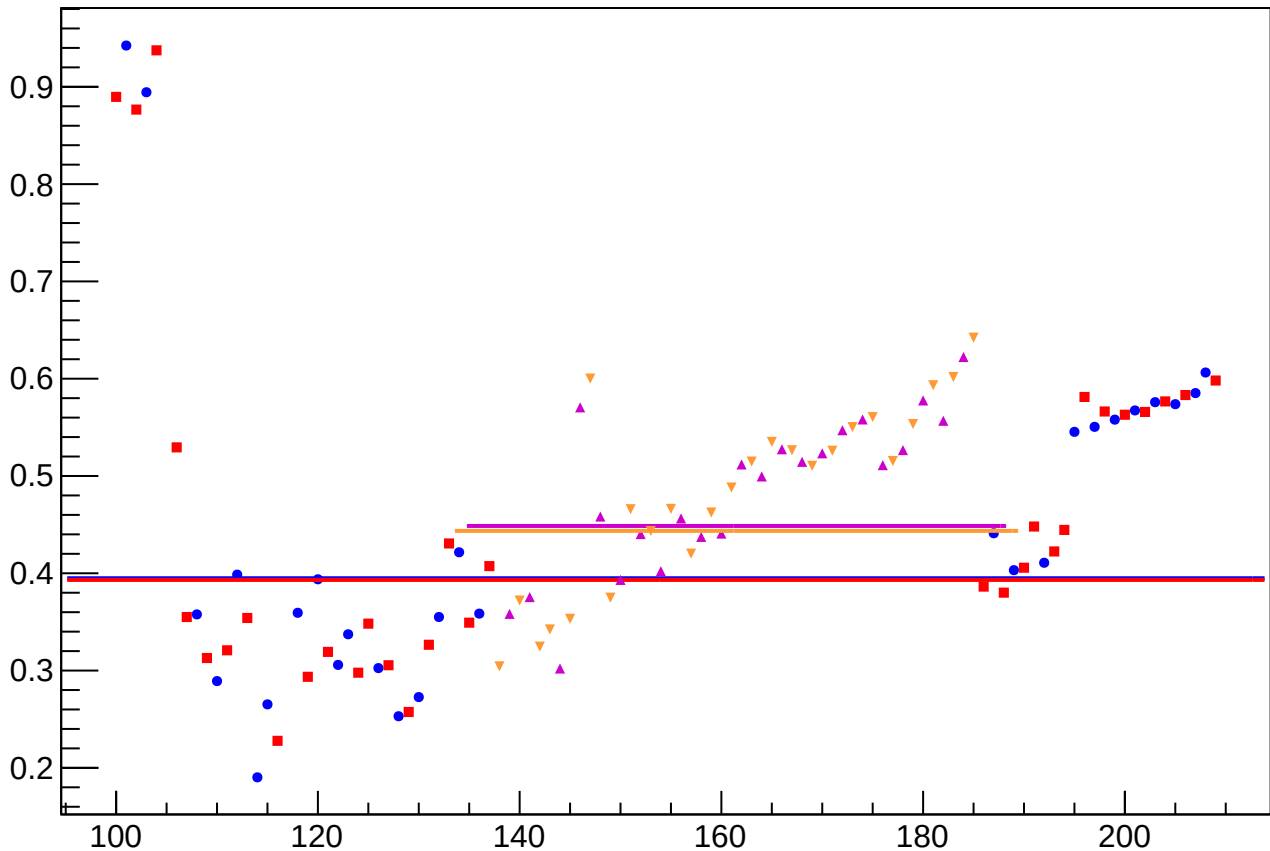
Right: 143.900 $\pm$ 0.000 χ^2 /NDF: 10435295374.9/59

In: 145.687 $\pm$ 0.000 χ^2 /NDF: 3949778337.1/50

Out: 145.245 $\pm$ 0.000 χ^2 /NDF: 8097484262.3/56

All: 145.456 $\pm$ 0.000 χ^2 /NDF: 12063603356.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.395 $\pm$ 0.000 χ^2 /NDF: 2837638.1/27

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1483434.7/24

Right Out: 0.393 $\pm$ 0.000 χ^2 /NDF: 2653435.4/31

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

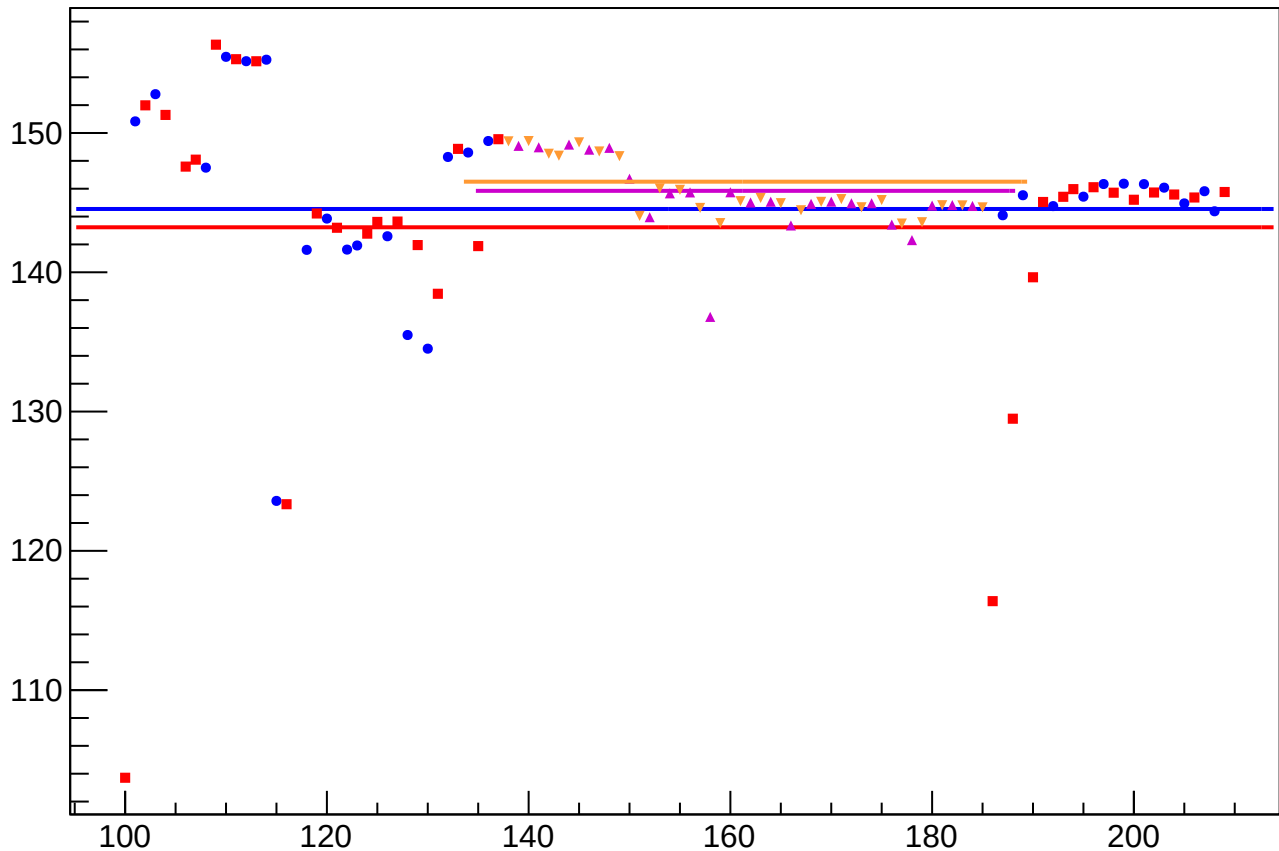
Right: 0.394 $\pm$ 0.000 χ^2 /NDF: 5491316.4/59

In: 0.422 $\pm$ 0.000 χ^2 /NDF:4200523.1/50

Out: 0.418 $\pm$ 0.000 χ^2 /NDF:4359240.5/56

All: 0.420 $\pm$ 0.000 χ^2 /NDF: 8562608.7/107

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.545 +/- 0.000 χ^2/NDF : 3331935972.6/27

Left Out: 146.505 +/- 0.000 χ^2/NDF : 401688176.3/24

Right Out: 143.230 +/- 0.000 χ^2/NDF : 7088151999.7/31

Left In: 145.847 +/- 0.000 χ^2/NDF : 694764545.6/22

Left: 146.187 +/- 0.000 χ^2/NDF : 1114638549.0/47

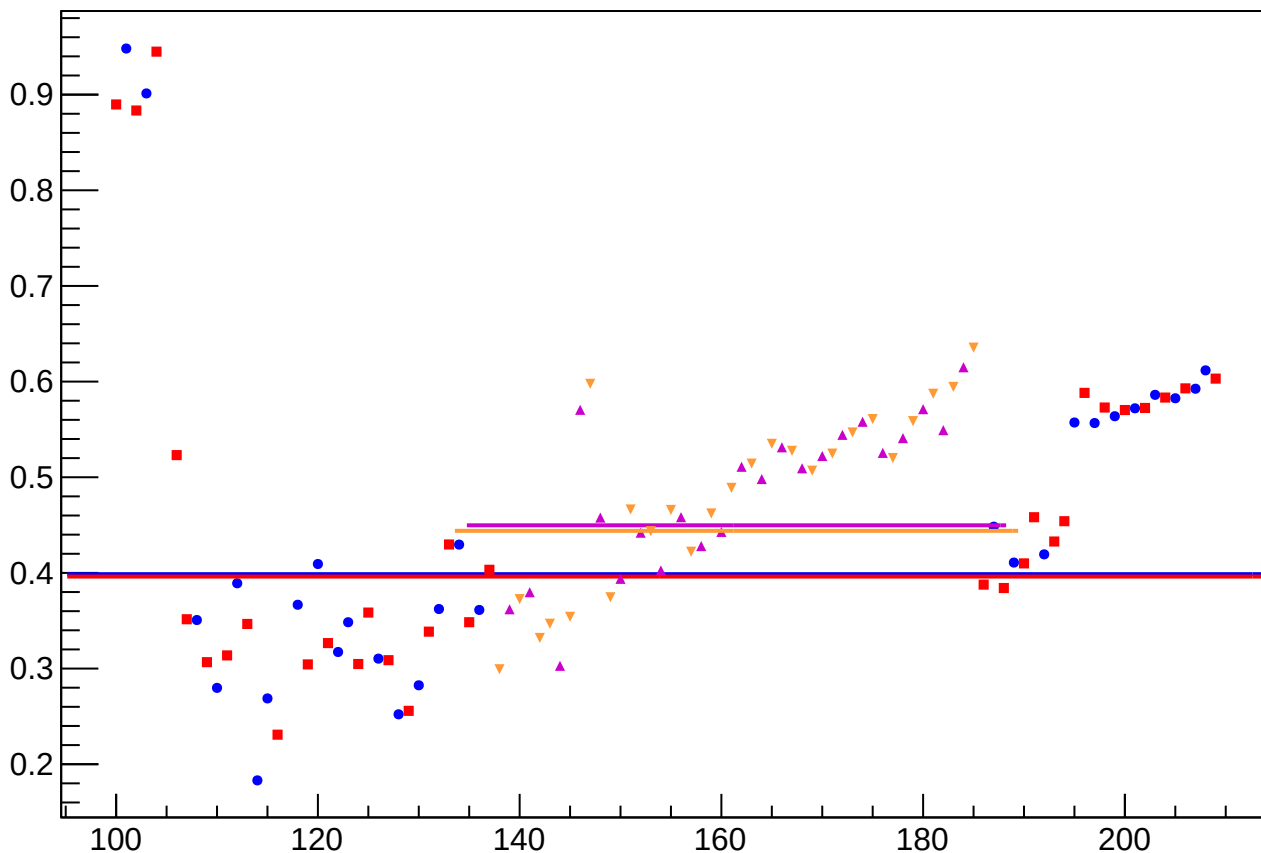
Right: 143.846 +/- 0.000 χ^2/NDF : 10489900182.4/59

In: 145.217 +/- 0.000 χ^2/NDF : 4093282328.0/50

Out: 144.874 +/- 0.000 χ^2/NDF : 7954008257.1/56

All: 145.037 +/- 0.000 χ^2/NDF : 12056988948.0

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.399 $\pm$ 0.000 χ^2 /NDF: 2884946.3/27

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.396 $\pm$ 0.000 χ^2 /NDF: 2684729.2/31

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

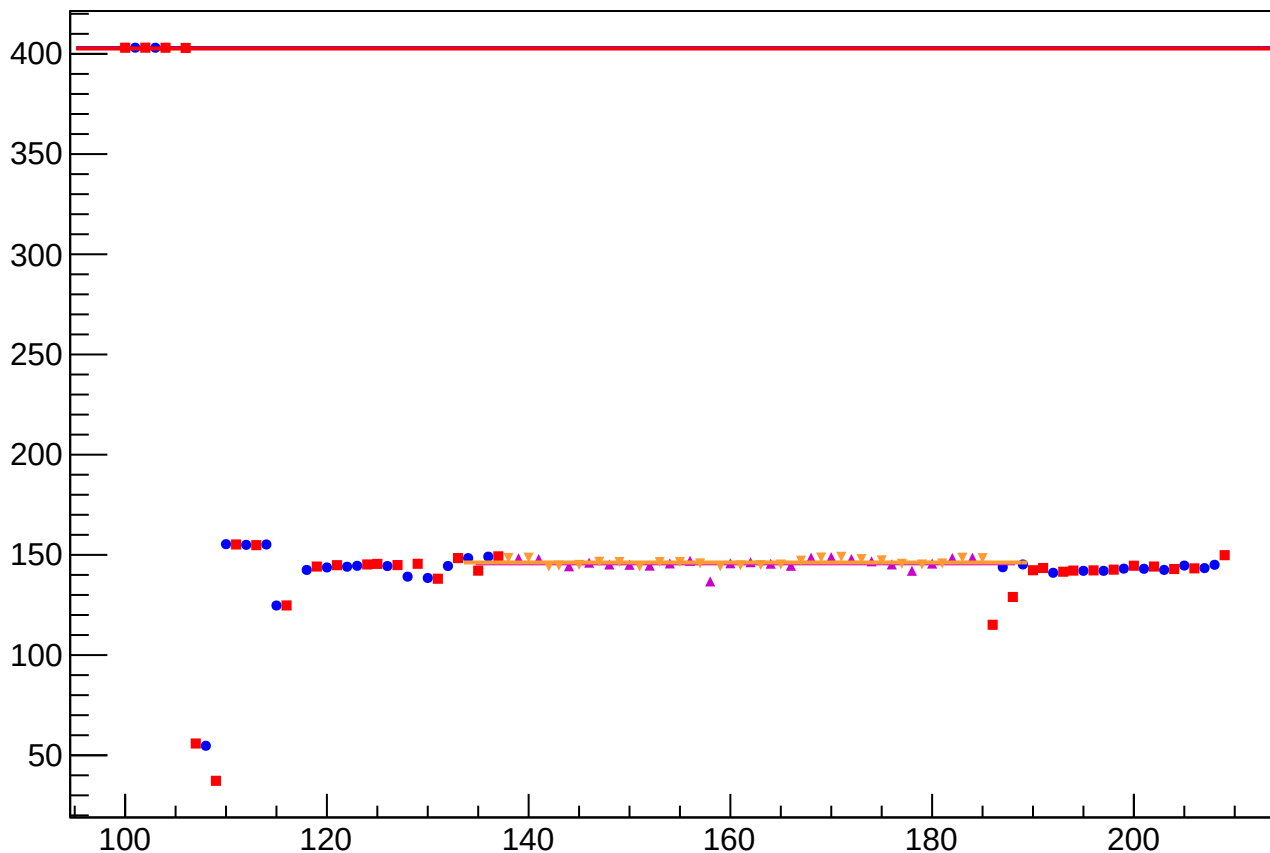
Right: 0.397 $\pm$ 0.000 χ^2 /NDF: 5570183.1/59

In: 0.425 $\pm$ 0.000 χ^2 /NDF:4195234.9/50

Out: 0.420 $\pm$ 0.000 χ^2 /NDF:4345982.2/56

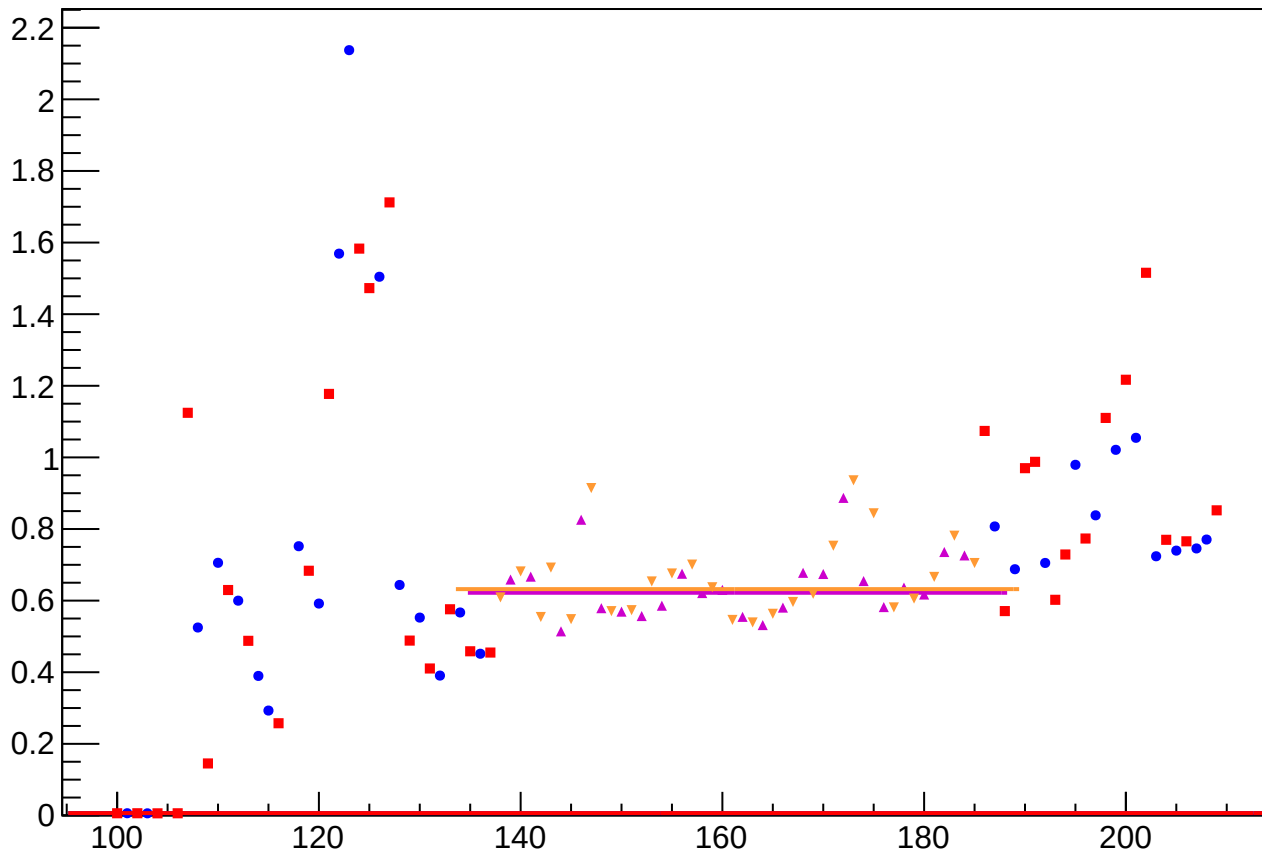
All: 0.423 $\pm$ 0.000 χ^2 /NDF: 8545135.4/107

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.878 $\pm$ 0.000	χ^2 /NDF: 1740379170878.6/27	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: 402.790 $\pm$ 0.000	χ^2 /NDF: 5651662114809.4
Right Out: 402.712 $\pm$ 0.000	χ^2 /NDF: 3910826412408.0/31	In: 402.585 $\pm$ 0.000	χ^2 /NDF: 4088954299588.7/50
Left In: 145.773 $\pm$ 0.000	χ^2 /NDF: 207332354.9/22	Out: 402.450 $\pm$ 0.000	χ^2 /NDF: 6278600109126.0/5
		All: 402.513 $\pm$ 0.000	χ^2 /NDF: 103678547846

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 21238931.3/27

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 23626447.6/31

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

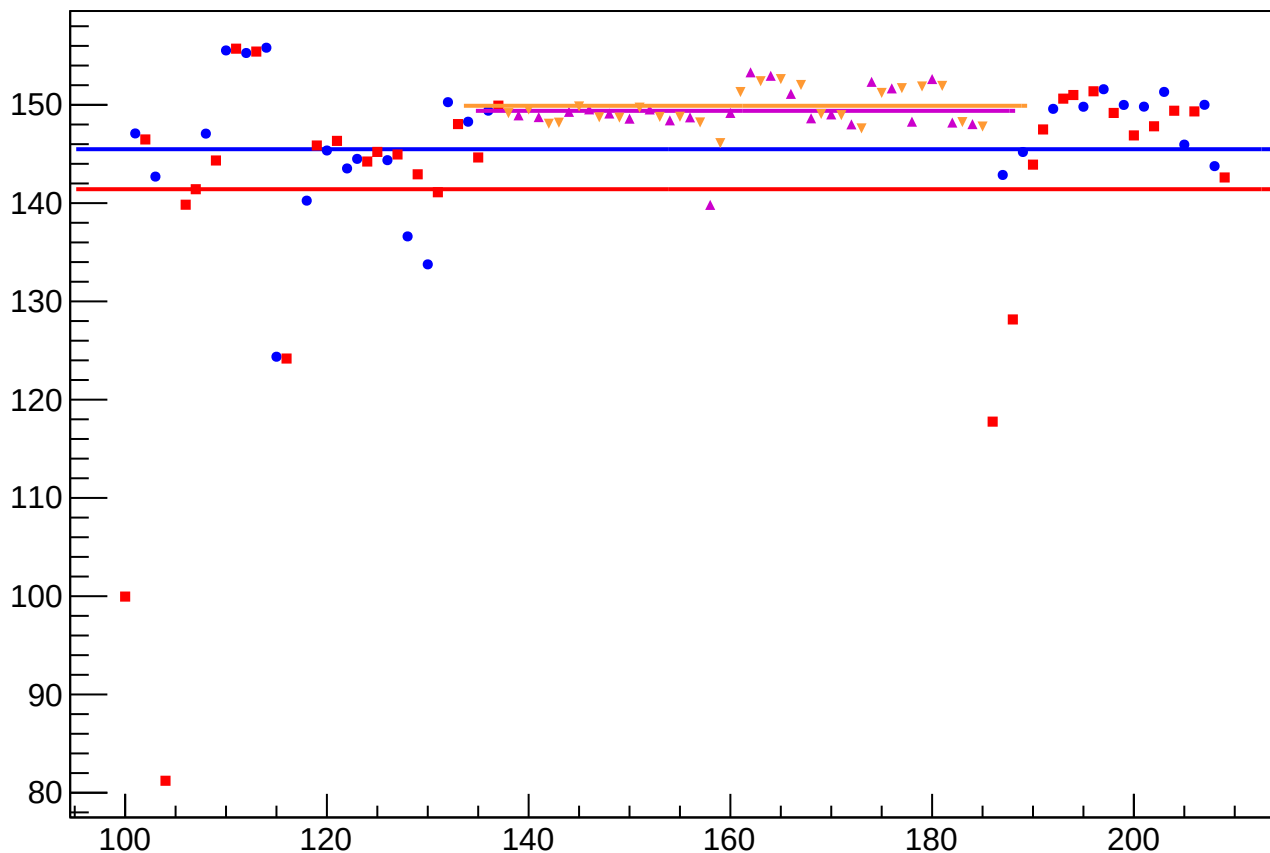
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 44865378.9/59

In: 0.007 $\pm$ 0.000 χ^2 /NDF:48548390.7/50

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:52402166.6/56

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 100950692.7/107

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.487 $\pm$ 0.000

χ^2 /NDF: 1332532898.0/27

Left: 149.657 $\pm$ 0.000

χ^2 /NDF: 606930259.3/47

Left Out: 149.906 $\pm$ 0.000

χ^2 /NDF: 163261802.4/24

Right: 143.233 $\pm$ 0.000

χ^2 /NDF: 4787176894.1/59

Right Out: 141.416 $\pm$ 0.000

χ^2 /NDF: 3249470513.3/31

In: 148.142 $\pm$ 0.000

χ^2 /NDF: 2001623689.9/50

Out: 146.912 $\pm$ 0.000

χ^2 /NDF: 4707204906.9/56

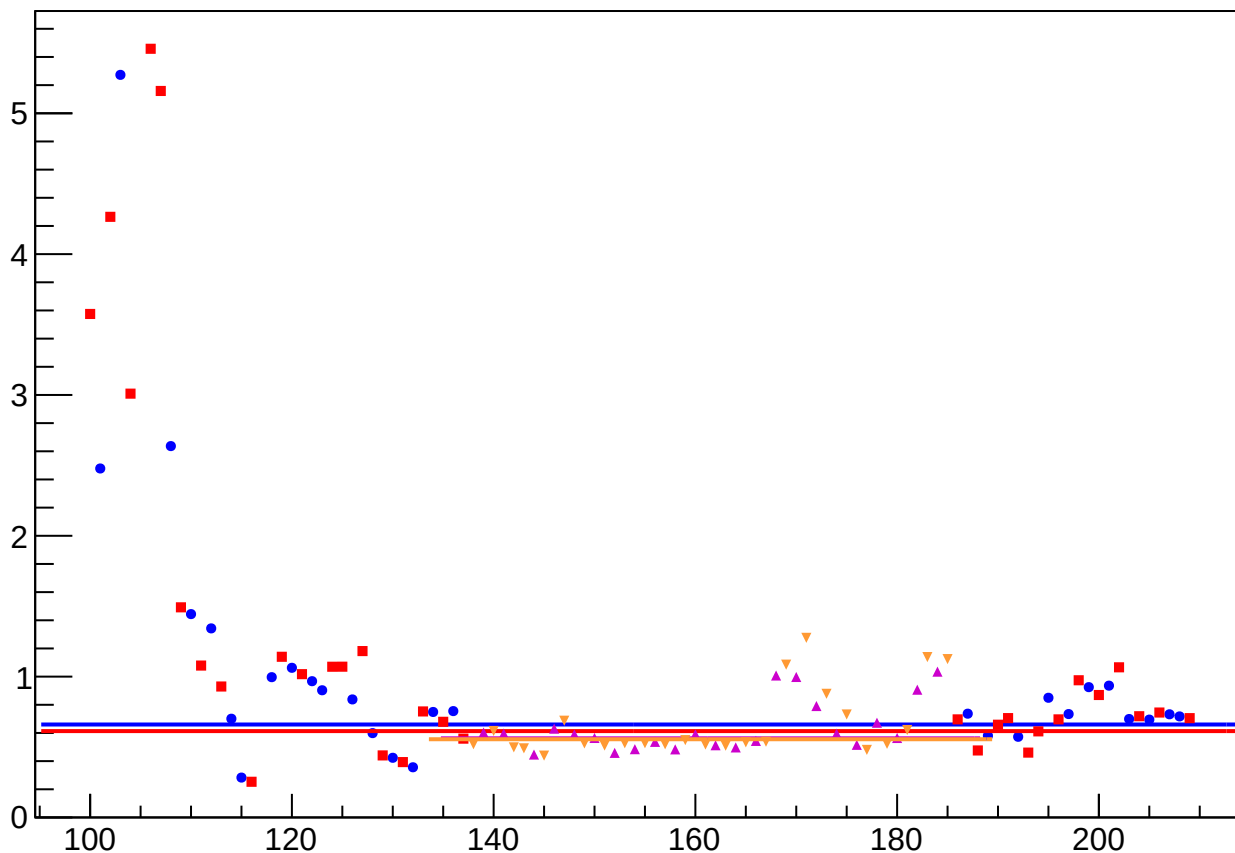
Left In: 149.391 $\pm$ 0.000

χ^2 /NDF: 437129920.4/22

All: 147.491 $\pm$ 0.000

χ^2 /NDF: 6764902398.6

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.660 $\pm$ 0.000 χ^2 /NDF: 3969895.1/27

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.613 $\pm$ 0.000 χ^2 /NDF: 5569799.0/31

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

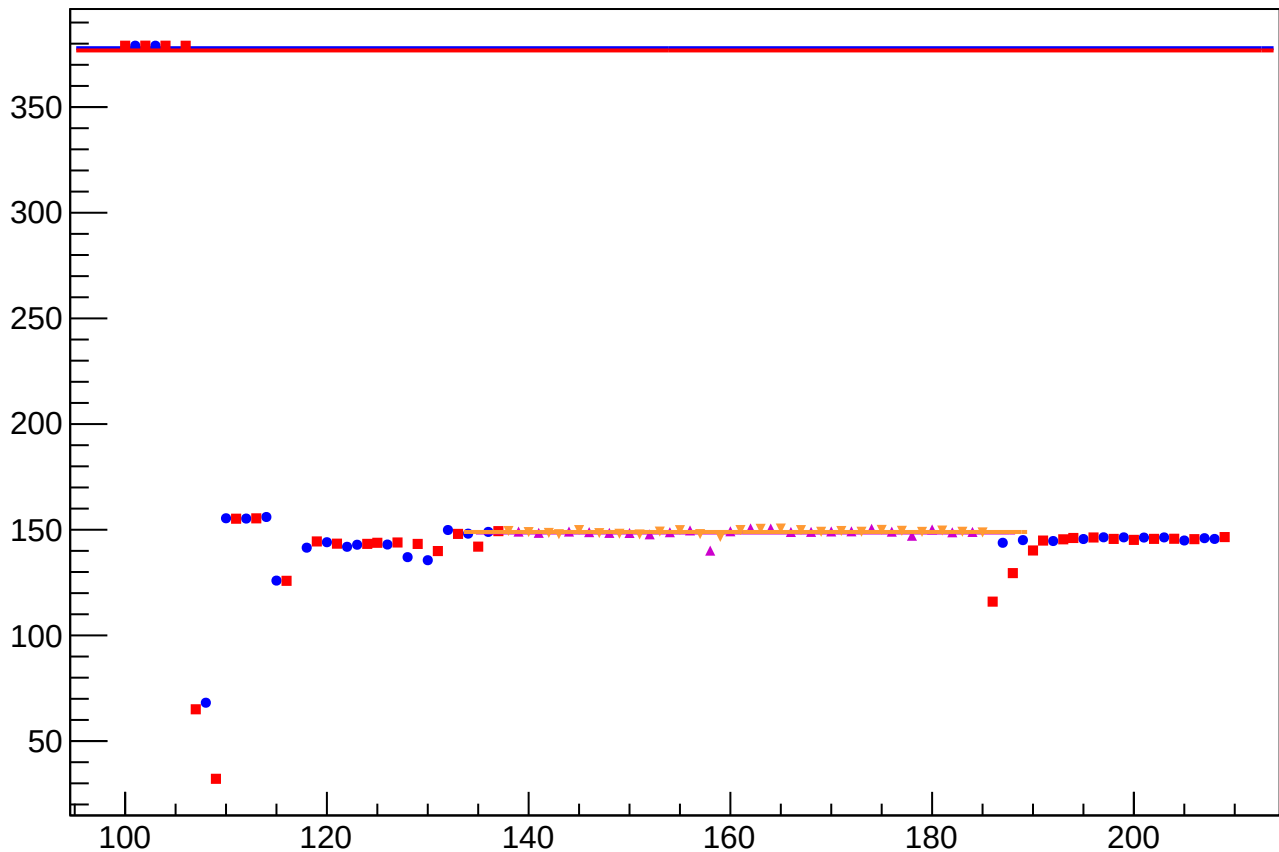
Right: 0.634 $\pm$ 0.000 χ^2 /NDF: 9594053.4/59

In: 0.593 $\pm$ 0.000 χ^2 /NDF:5572995.8/50

Out: 0.576 $\pm$ 0.000 χ^2 /NDF:7463094.4/56

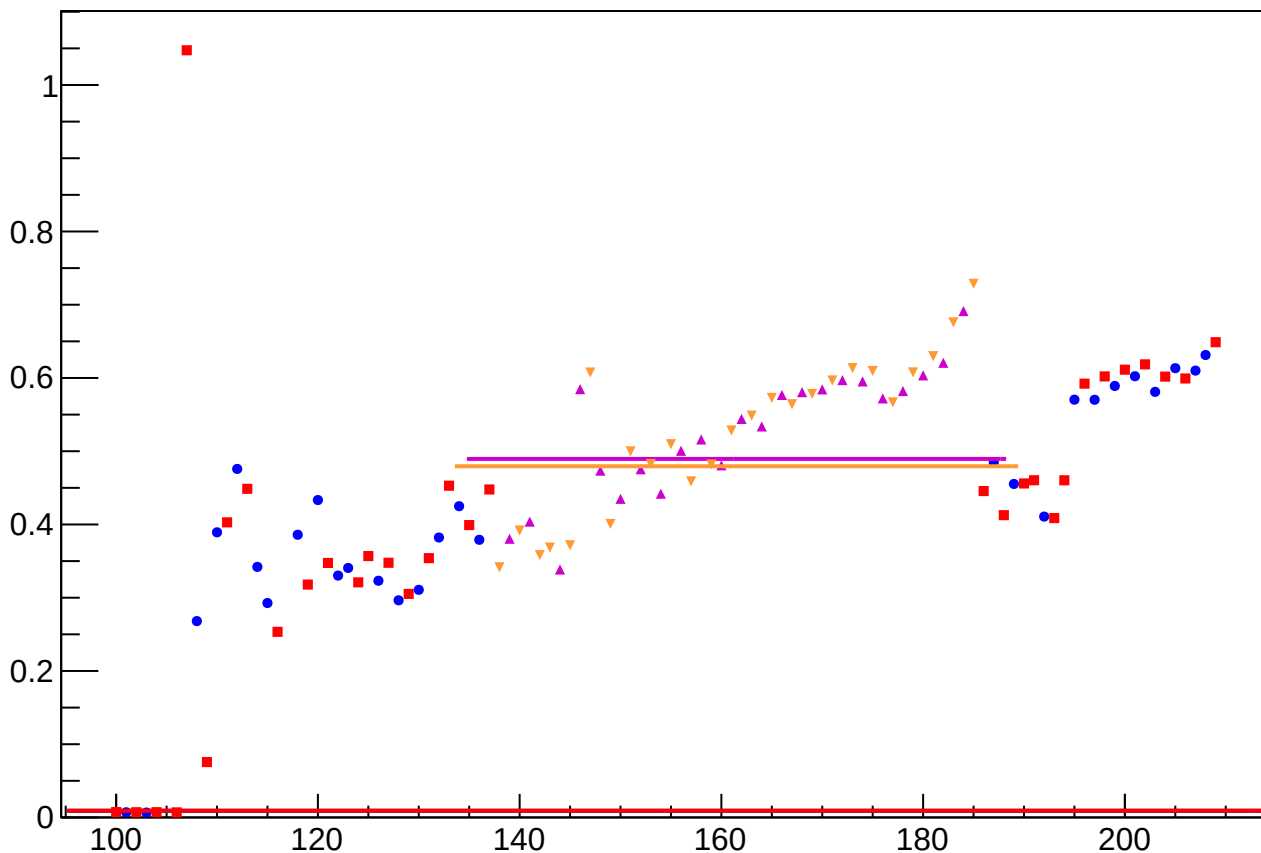
All: 0.584 $\pm$ 0.000 χ^2 /NDF: 13059067.4/107

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.858+/-0.000	χ^2/NDF : 3822611472451.8/27	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.293+/-0.000	χ^2/NDF : 13875781012352.0
Right Out: 376.797+/-0.000	χ^2/NDF : 10045168160706.8/31	In: 376.681+/-0.000	χ^2/NDF : 7423446100055.5/50
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 375.682+/-0.000	χ^2/NDF : 13912642451031.2
		All: 376.148+/-0.000	χ^2/NDF : 213432168943.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 24150545.5/27

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 25911754.0/31

Left In: 0.490 $\pm$ 0.000 χ^2 /NDF:1090532.3/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2616511.3/47

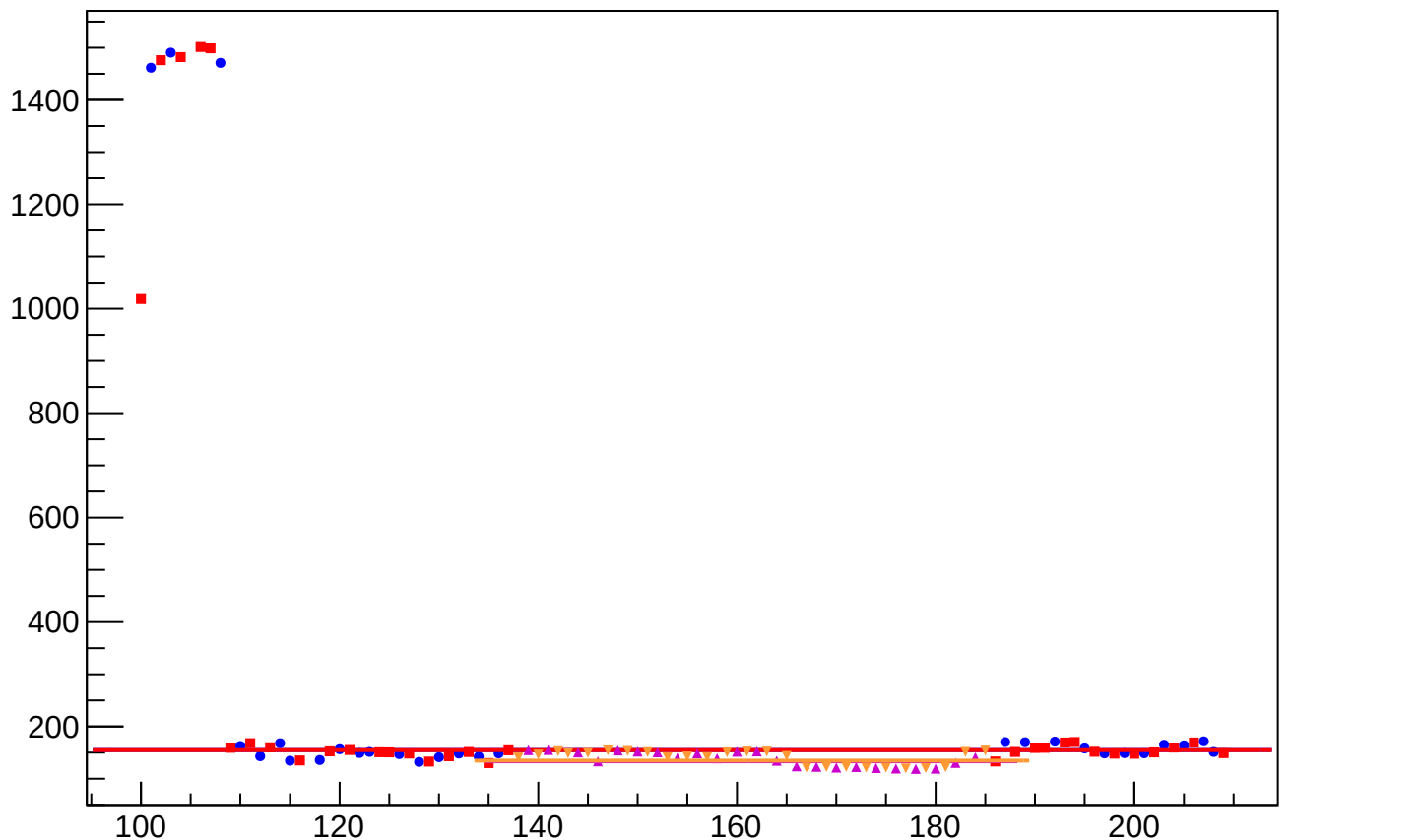
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 50062398.6/59

In: 0.012 $\pm$ 0.000 χ^2 /NDF:56885472.4/50

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:60384275.3/56

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 117269845.1/107

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.833+/-0.000 χ^2/NDF : 25920413342.4/27

Left Out: 134.585+/-0.000 χ^2/NDF : 4387324151.1/24

Right Out: 154.708+/-0.000 χ^2/NDF : 35041460122.0/31

Left In: 133.309+/-0.000 χ^2/NDF : 4353039408.6/22

Left: 133.958+/-0.000 χ^2/NDF : 8759337937.7/47

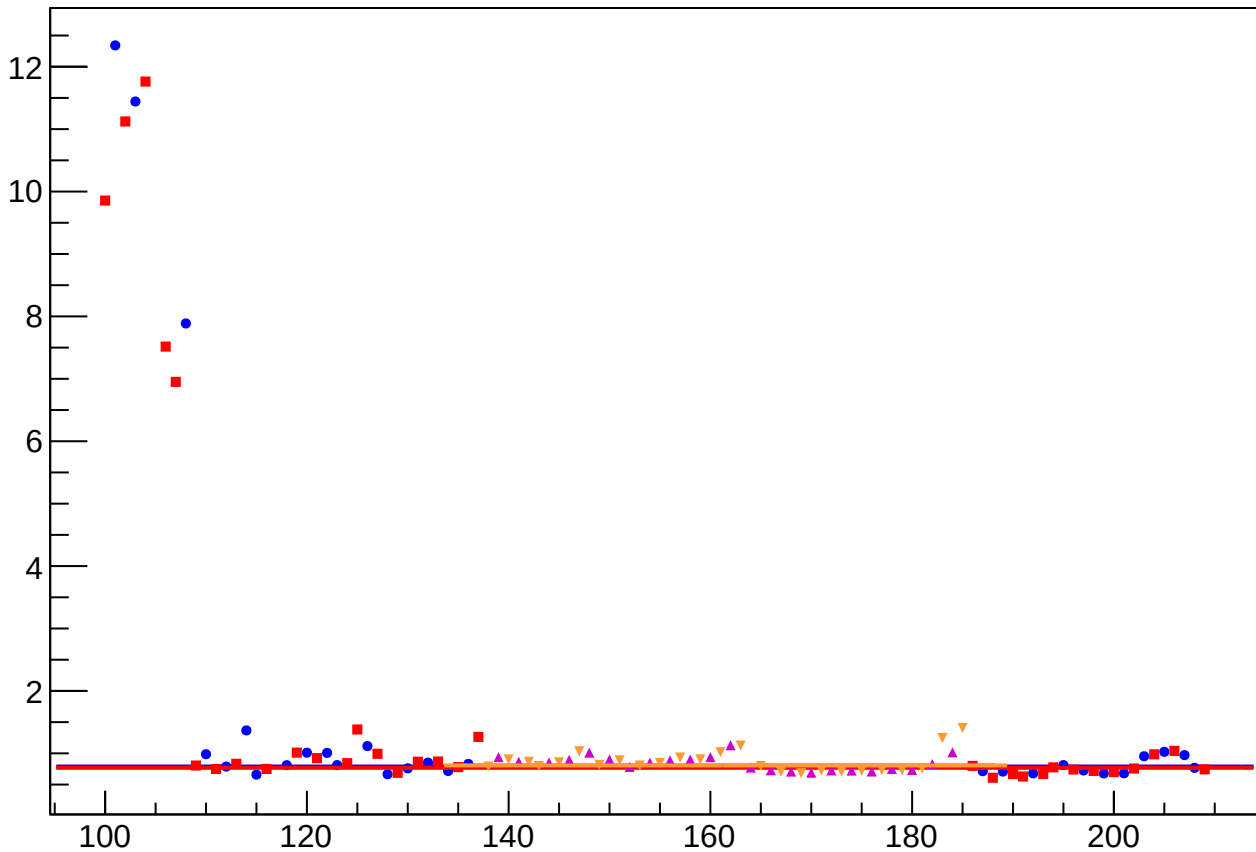
Right: 154.766+/-0.000 χ^2/NDF : 60962012427.9/59

In: 142.381+/-0.000 χ^2/NDF : 34753880566.0/50

Out: 143.674+/-0.000 χ^2/NDF : 43771242153.7/56

All: 143.056+/-0.000 χ^2/NDF : 78559776591.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.788 $\pm$ 0.000 χ^2 /NDF: 3011896.2/27

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF:704181.3/24

Right Out: 0.769 $\pm$ 0.000 χ^2 /NDF: 3301512.5/31

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

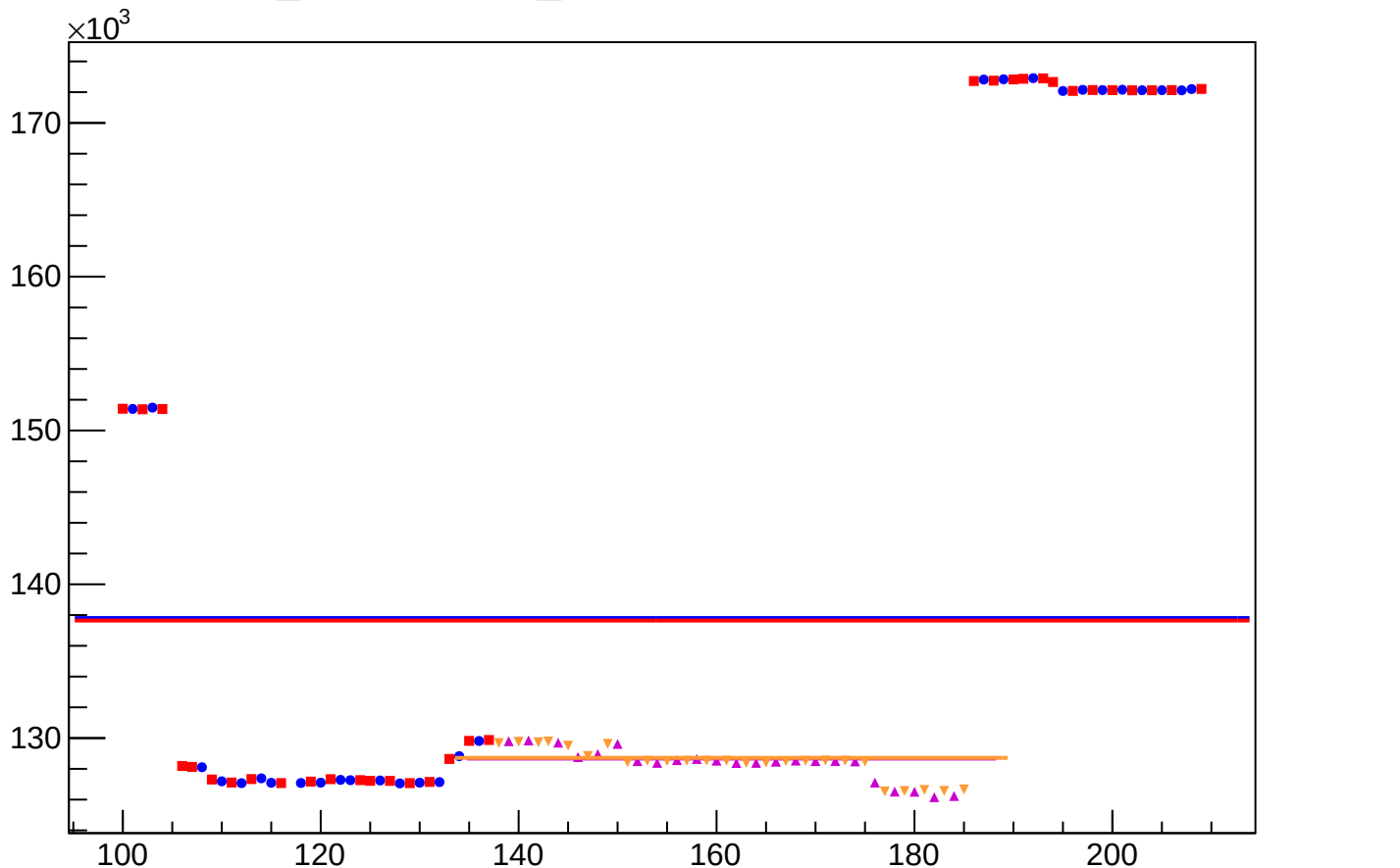
Right: 0.778 $\pm$ 0.000 χ^2 /NDF: 6320410.9/59

In: 0.798 $\pm$ 0.000 χ^2 /NDF:3496571.7/50

Out: 0.790 $\pm$ 0.000 χ^2 /NDF:4036494.8/56

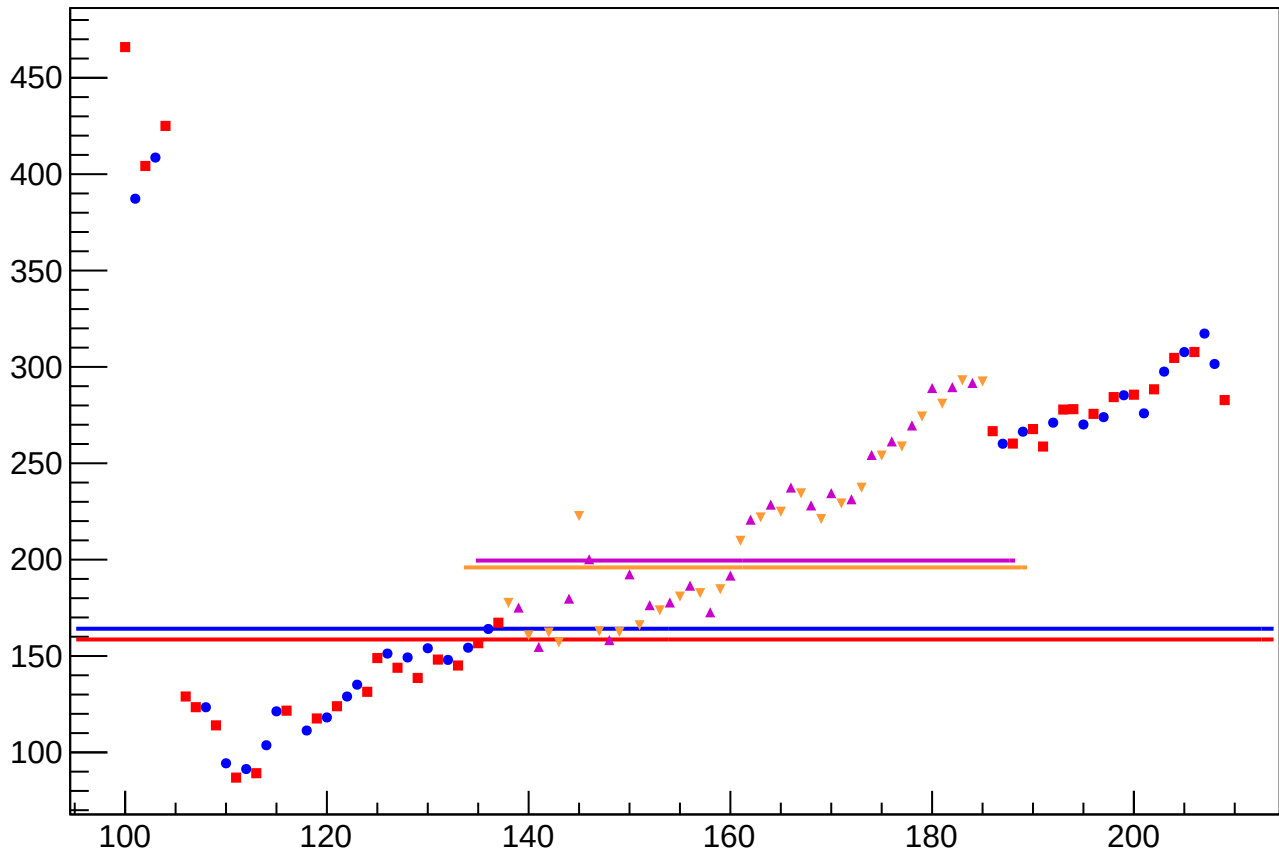
All: 0.793 $\pm$ 0.000 χ^2 /NDF: 7535862.8/107

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 137807.936 $\pm$ 0.048 χ^2/NDF : 149408771981.1/27
 Left: 128692.941 $\pm$ 0.034 χ^2/NDF : 683588051.4/47
 Left Out: 128713.791 $\pm$ 0.047 χ^2/NDF : 348293942.5/24
 Right: 137720.457 $\pm$ 0.033 χ^2/NDF : 323473568858
 Right Out: 137645.819 $\pm$ 0.045 χ^2/NDF : 174058697802.2/31
 In: 133296.737 $\pm$ 0.034 χ^2/NDF : 167472089225.9
 Out: 133386.425 $\pm$ 0.032 χ^2/NDF : 193583843240.
 Left In: 128670.094 $\pm$ 0.049 χ^2/NDF : 334875494.0/22
 All: 133344.404 $\pm$ 0.023 χ^2/NDF : 361059563

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 164.153+/-0.034 χ^2/NDF : 5083902.9/27

Left Out: 195.964+/-0.033 χ^2/NDF :1316091.7/24

Right Out: 158.580+/-0.031 χ^2/NDF : 5777795.2/31

Left In: 199.531+/-0.035 χ^2/NDF :1175342.5/22

Left: 197.666+/-0.024 χ^2/NDF : 2497014.2/47

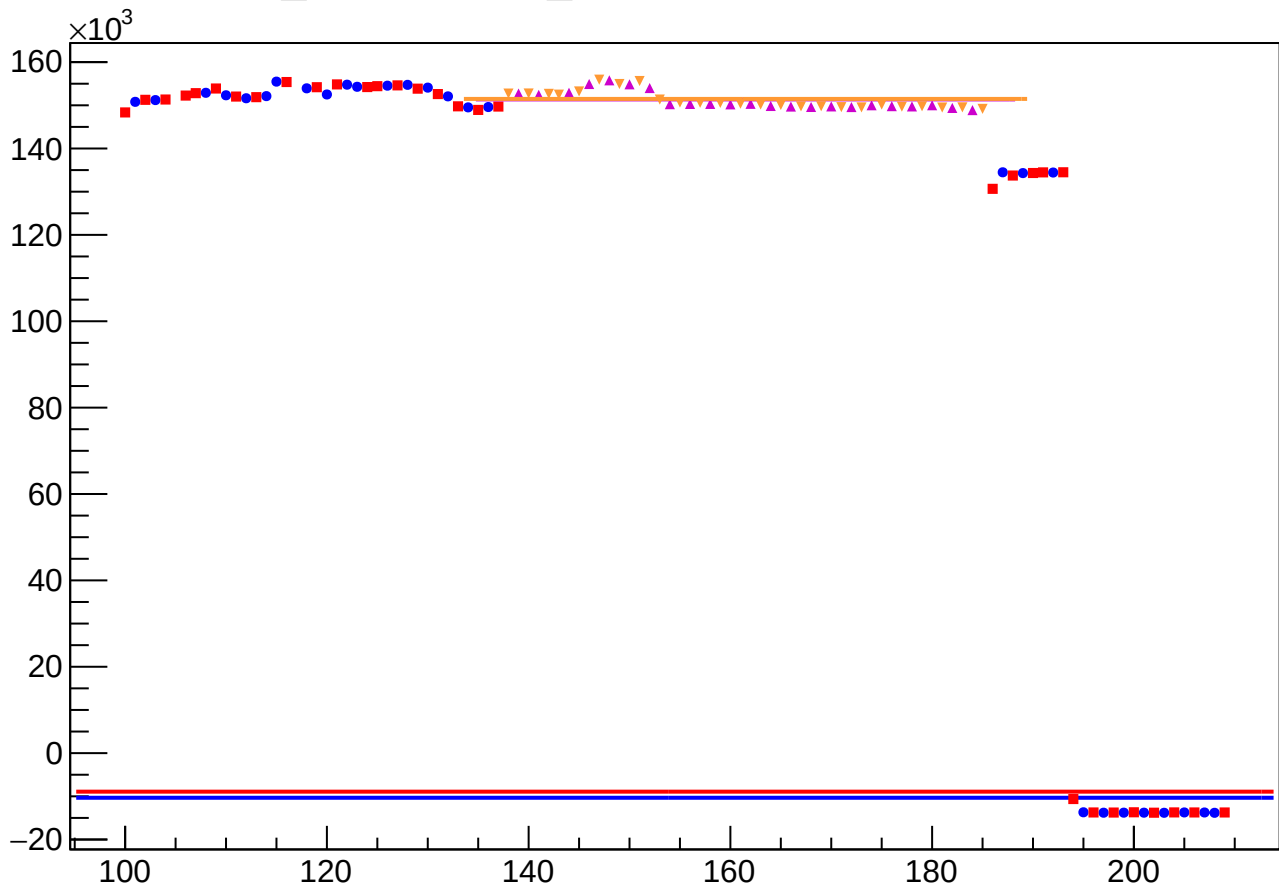
Right: 161.146+/-0.023 χ^2/NDF : 10876111.8/59

In: 181.619+/-0.024 χ^2/NDF :6790721.6/50

Out: 176.407+/-0.023 χ^2/NDF :7765732.7/56

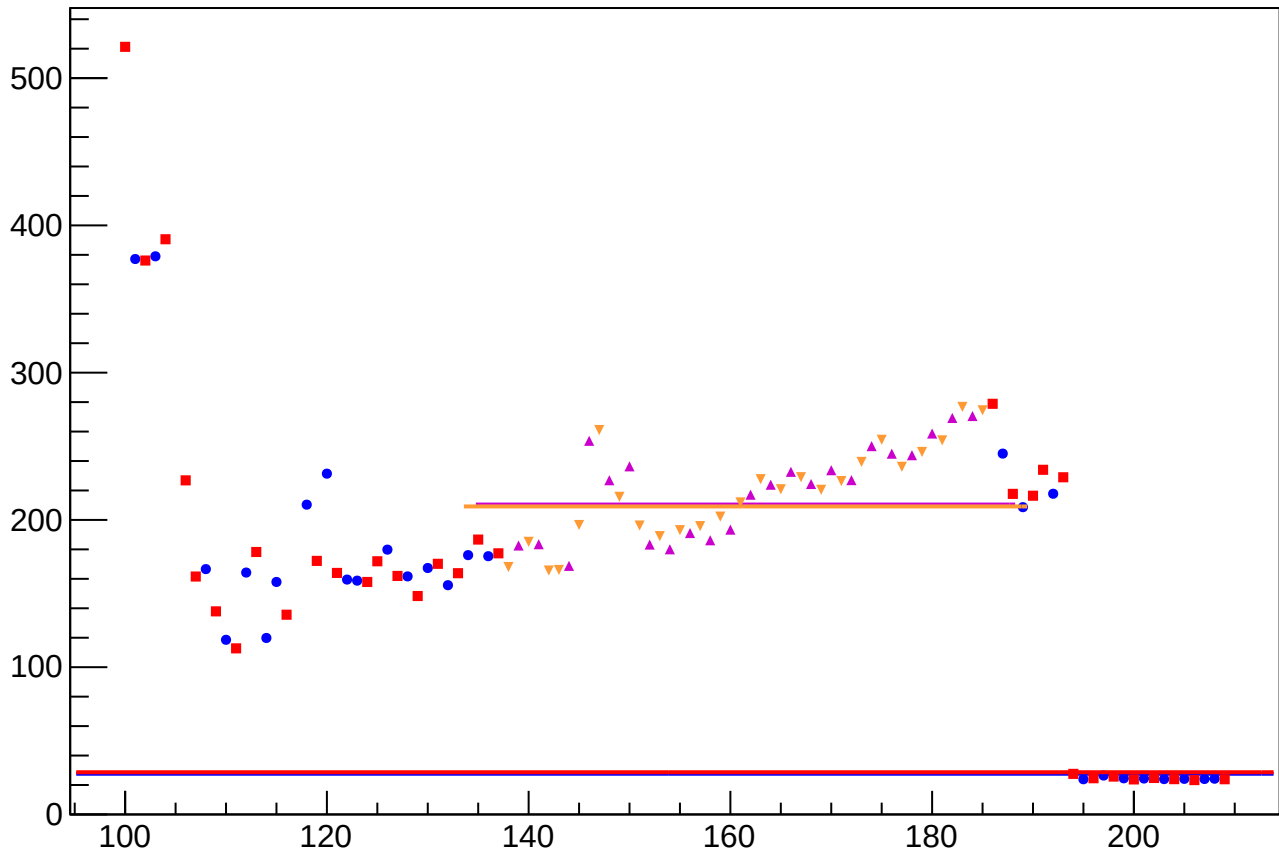
All: 178.849+/-0.017 χ^2/NDF : 14580974.3/10

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10331.531 $\pm$ 0.010	χ^2 /NDF: 5847746074549.3/27	Left: 151423.440 $\pm$ 0.036	χ^2 /NDF: 2913216467.1/4
Left Out: 151480.339 $\pm$ 0.049	χ^2 /NDF: 1483692735.3/24	Right: -9655.683 $\pm$ 0.007	χ^2 /NDF: 1302789655646.7
Right Out: -8918.137 $\pm$ 0.010	χ^2 /NDF: 7170023571496.7/31	In: -4720.345 $\pm$ 0.010	χ^2 /NDF: 15467797471734.7
Left In: 151362.440 $\pm$ 0.051	χ^2 /NDF: 1426782789.9/22	Out: -2444.223 $\pm$ 0.010	χ^2 /NDF: 17259180005627.7
		All: -3628.624 $\pm$ 0.007	χ^2 /NDF: 3275426791.1

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.653+/-0.007 χ^2/NDF : 11388137.2/27

Left Out: 209.156+/-0.035 χ^2/NDF : 710094.9/24

Right Out: 28.673+/-0.007 χ^2/NDF : 13518753.5/31

Left In: 210.431+/-0.036 χ^2/NDF : 684015.0/22

Left: 209.771+/-0.025 χ^2/NDF : 1394750.9/47

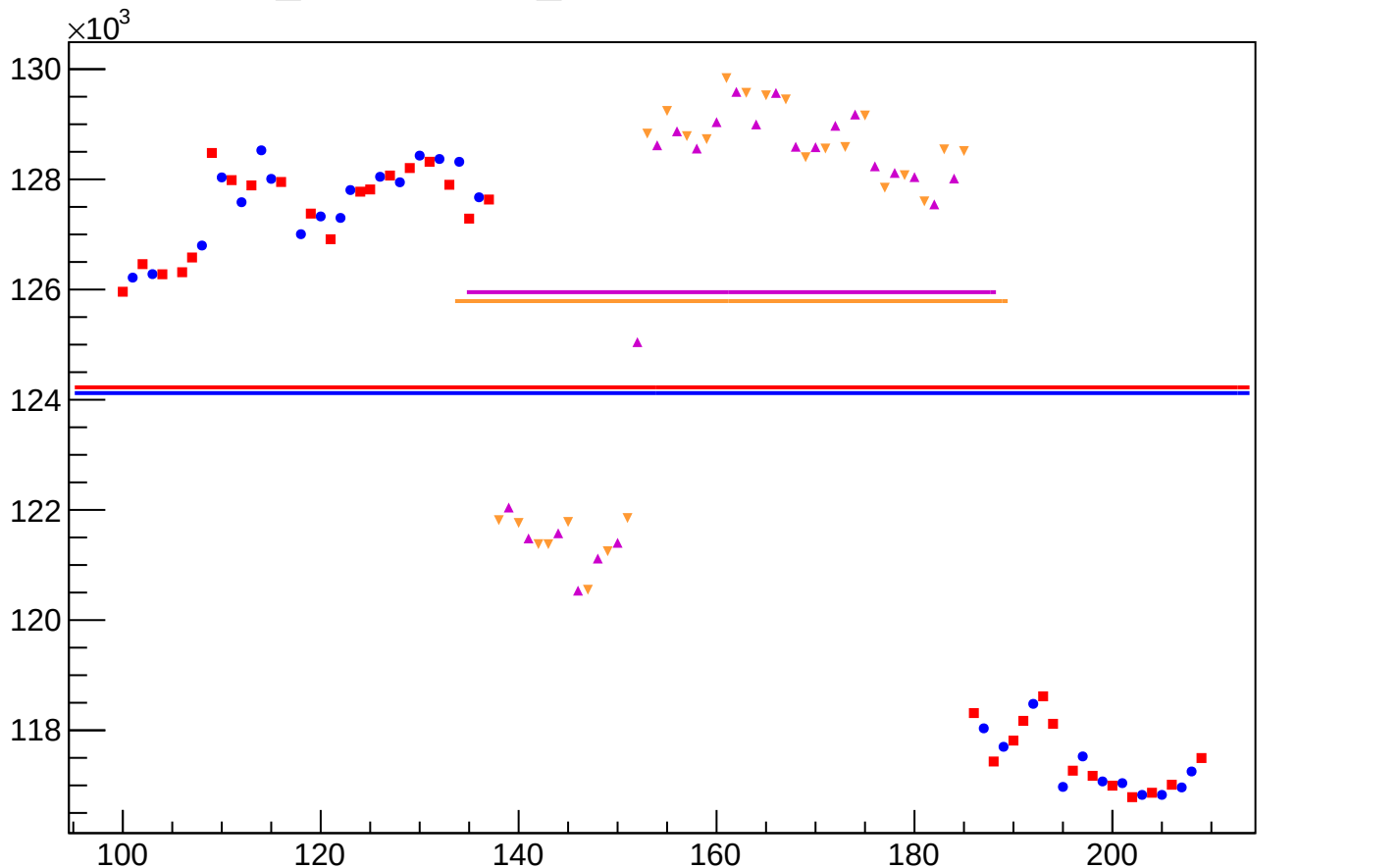
Right: 28.140+/-0.005 χ^2/NDF : 24917435.6/59

In: 33.996+/-0.007 χ^2/NDF : 36653322.2/50

Out: 35.957+/-0.007 χ^2/NDF : 39773108.9/56

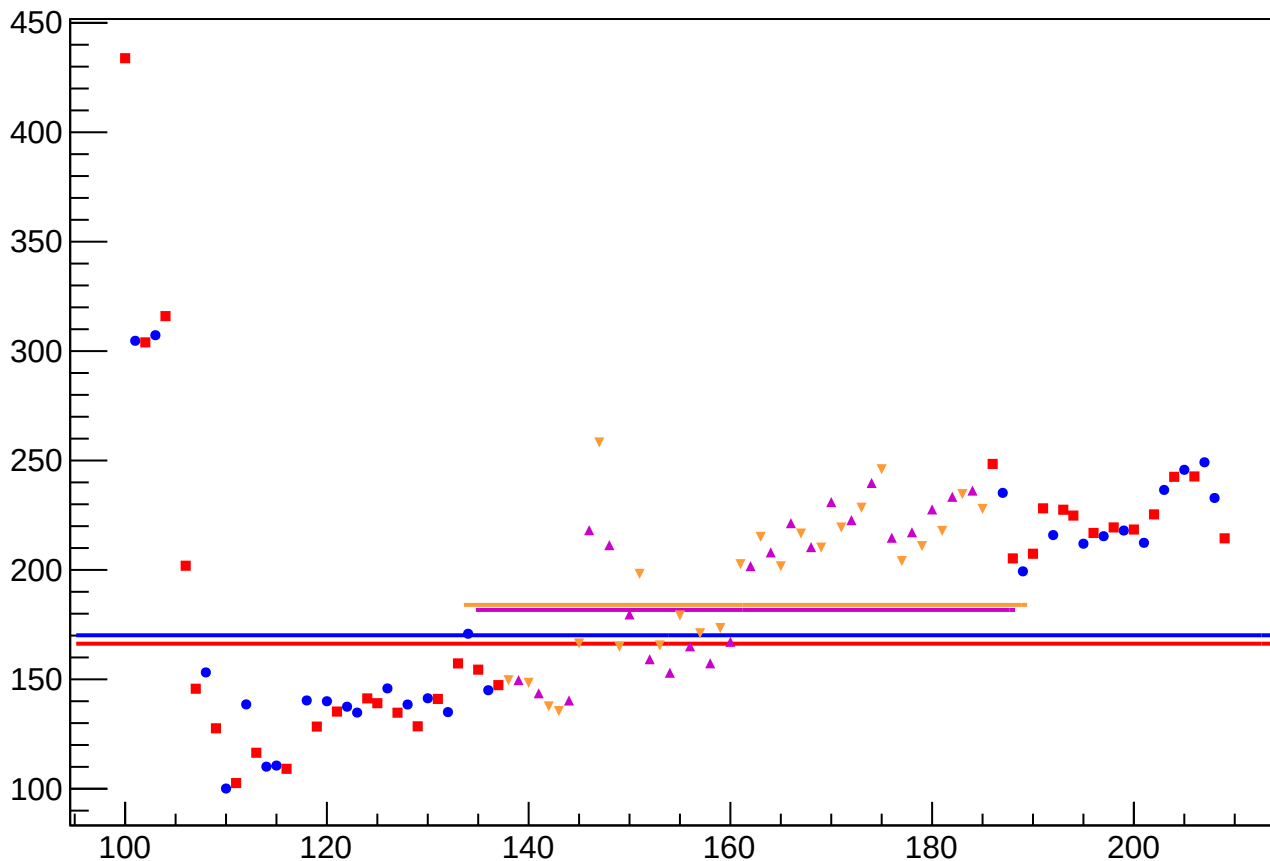
All: 34.936+/-0.005 χ^2/NDF : 76466967.6/107

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124120.877 $\pm$ 0.047	χ^2 /NDF: 11113346698.1/27	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6/27
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 124176.497 $\pm$ 0.032	χ^2 /NDF: 23343380902.1/24
Right Out: 124225.299 $\pm$ 0.044	χ^2 /NDF: 12227434386.2/31	In: 125088.479 $\pm$ 0.032	χ^2 /NDF: 17748435697.3/31
Left In: 125952.447 $\pm$ 0.045	χ^2 /NDF: 5841800367.5/22	Out: 125013.256 $\pm$ 0.031	χ^2 /NDF: 19600783200.9/22
		All: 125049.370 $\pm$ 0.022	χ^2 /NDF: 373520105/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 170.138 $\pm$ 0.033 χ^2 /NDF: 2219811.6/27

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 166.293 $\pm$ 0.031 χ^2 /NDF: 2700911.6/31

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

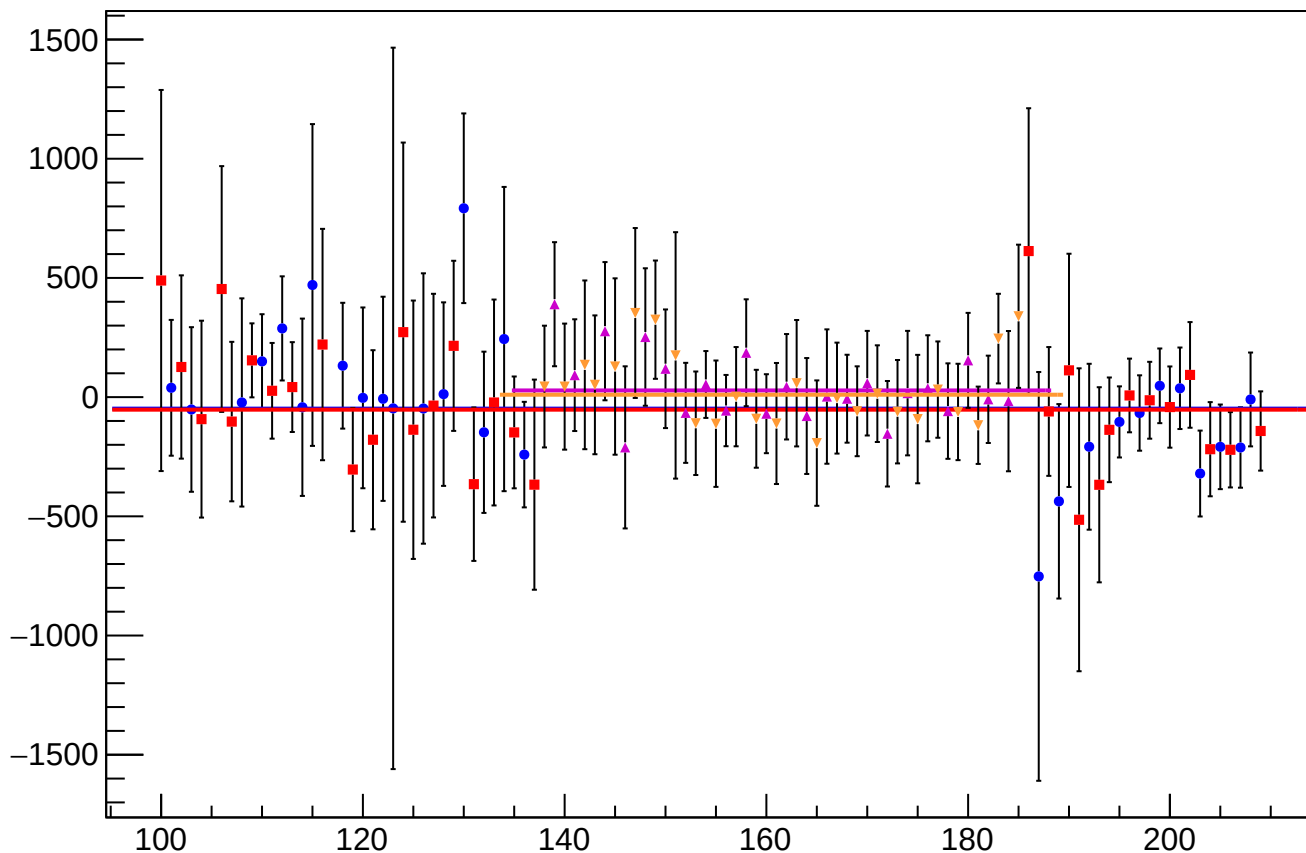
Right: 168.090 $\pm$ 0.023 χ^2 /NDF: 4927771.8/59

In: 176.253 $\pm$ 0.023 χ^2 /NDF: 3399331.5/50

Out: 175.224 $\pm$ 0.022 χ^2 /NDF: 3989122.4/56

All: 175.718 $\pm$ 0.016 χ^2 /NDF: 7389499.4/107

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -48.257 ± 46.826 $\chi^2/\text{NDF}: 16.7/27$

Left Out: 10.078 ± 47.488 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -52.616 ± 45.156 $\chi^2/\text{NDF}: 13.0/31$

Left In: 28.050 ± 44.573 $\chi^2/\text{NDF}: 7.0/22$

Left: 19.632 ± 32.499 $\chi^2/\text{NDF}: 15.5/47$

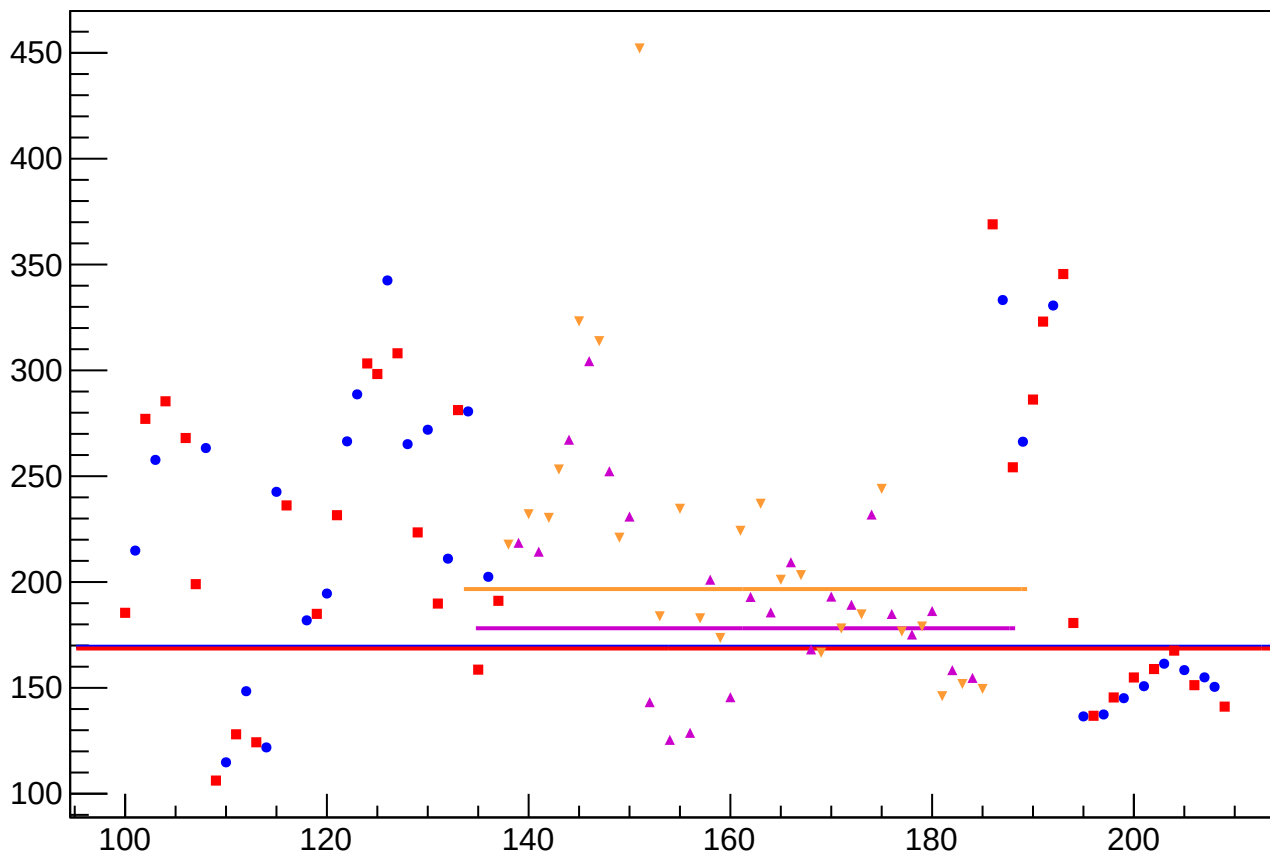
Right: -50.515 ± 32.504 $\chi^2/\text{NDF}: 29.7/59$

In: -8.224 ± 32.285 $\chi^2/\text{NDF}: 25.1/50$

Out: -22.846 ± 32.723 $\chi^2/\text{NDF}: 22.4/56$

All: -15.436 ± 22.982 $\chi^2/\text{NDF}: 47.6/107$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 169.442 ± 0.033 χ^2/NDF : 2119466.9/27

Left Out: 196.682 ± 0.034 χ^2/NDF : 1782715.7/24

Right Out: 168.592 ± 0.032 χ^2/NDF : 2838827.1/31

Left In: 178.166 ± 0.032 χ^2/NDF : 1618967.9/22

Left: 186.838 ± 0.023 χ^2/NDF : 3563331.3/47

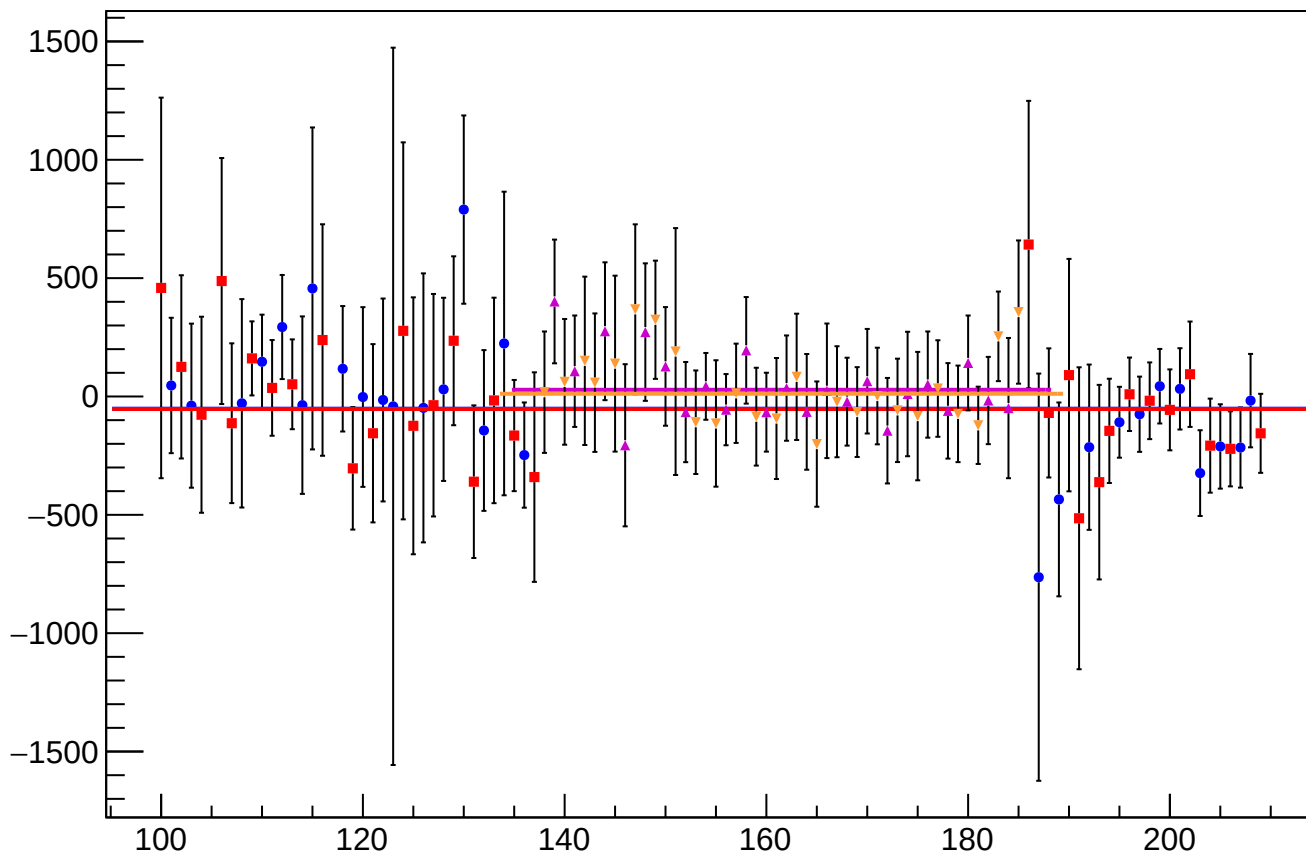
Right: 169.002 ± 0.023 χ^2/NDF : 4958635.6/59

In: 174.019 ± 0.023 χ^2/NDF : 3774850.4/50

Out: 181.930 ± 0.023 χ^2/NDF : 4989027.2/56

All: 177.921 ± 0.016 χ^2/NDF : 8823115.0/107

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -51.698 ± 47.047 $\chi^2/\text{NDF}: 16.7/27$

Left Out: 11.479 ± 47.819 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -52.755 ± 45.380 $\chi^2/\text{NDF}: 13.3/31$

Left In: 28.280 ± 44.863 $\chi^2/\text{NDF}: 7.1/22$

Left: 20.415 ± 32.718 $\chi^2/\text{NDF}: 16.0/47$

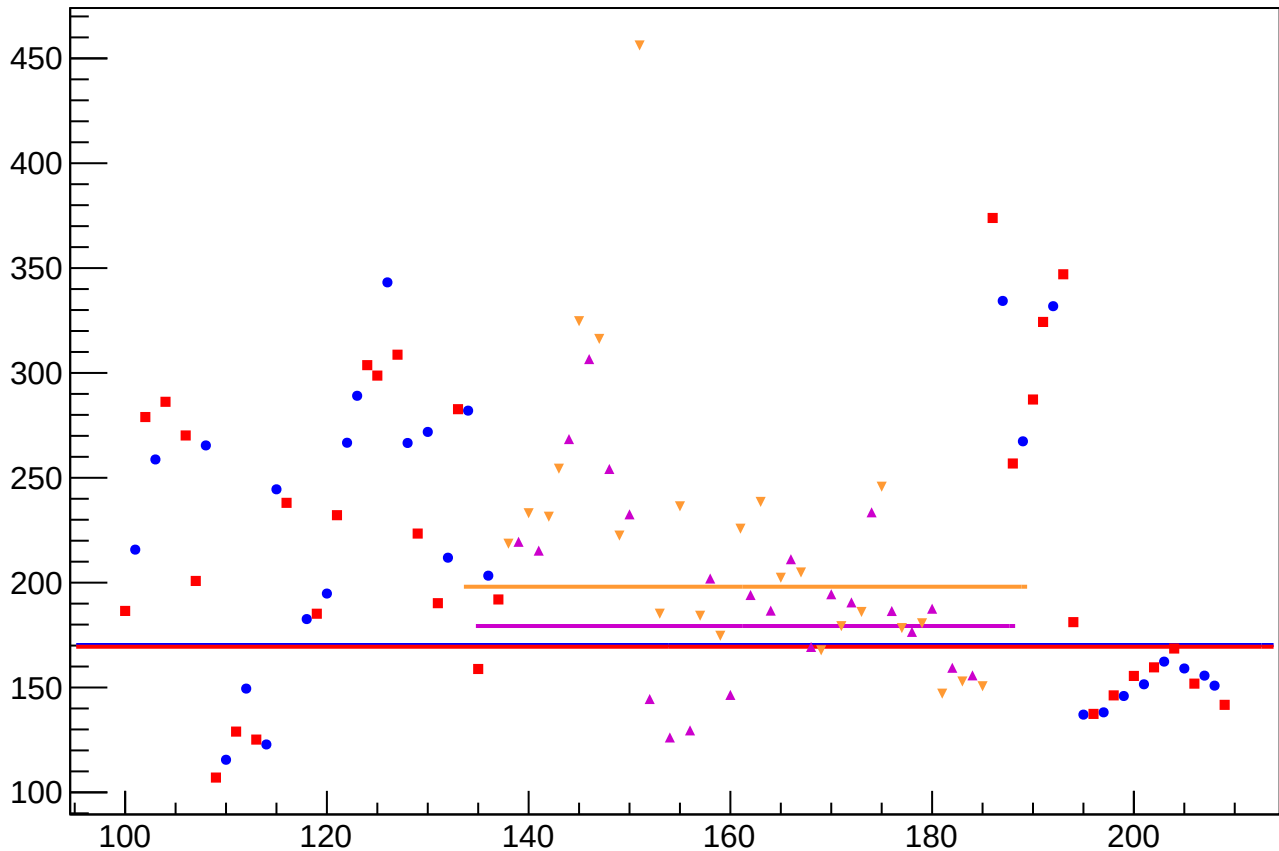
Right: -52.246 ± 32.662 $\chi^2/\text{NDF}: 30.0/59$

In: -9.809 ± 32.468 $\chi^2/\text{NDF}: 25.3/50$

Out: -22.318 ± 32.917 $\chi^2/\text{NDF}: 23.1/56$

All: -15.978 ± 23.115 $\chi^2/\text{NDF}: 48.5/107$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 170.268 $\pm$ 0.033 χ^2 /NDF: 2111083.7/27

Left Out: 198.059 $\pm$ 0.034 χ^2 /NDF:1778526.5/24

Right Out: 169.439 $\pm$ 0.032 χ^2 /NDF: 2834844.8/31

Left In: 179.324 $\pm$ 0.032 χ^2 /NDF:1618266.2/22

Left: 188.094 $\pm$ 0.023 χ^2 /NDF: 3560073.1/47

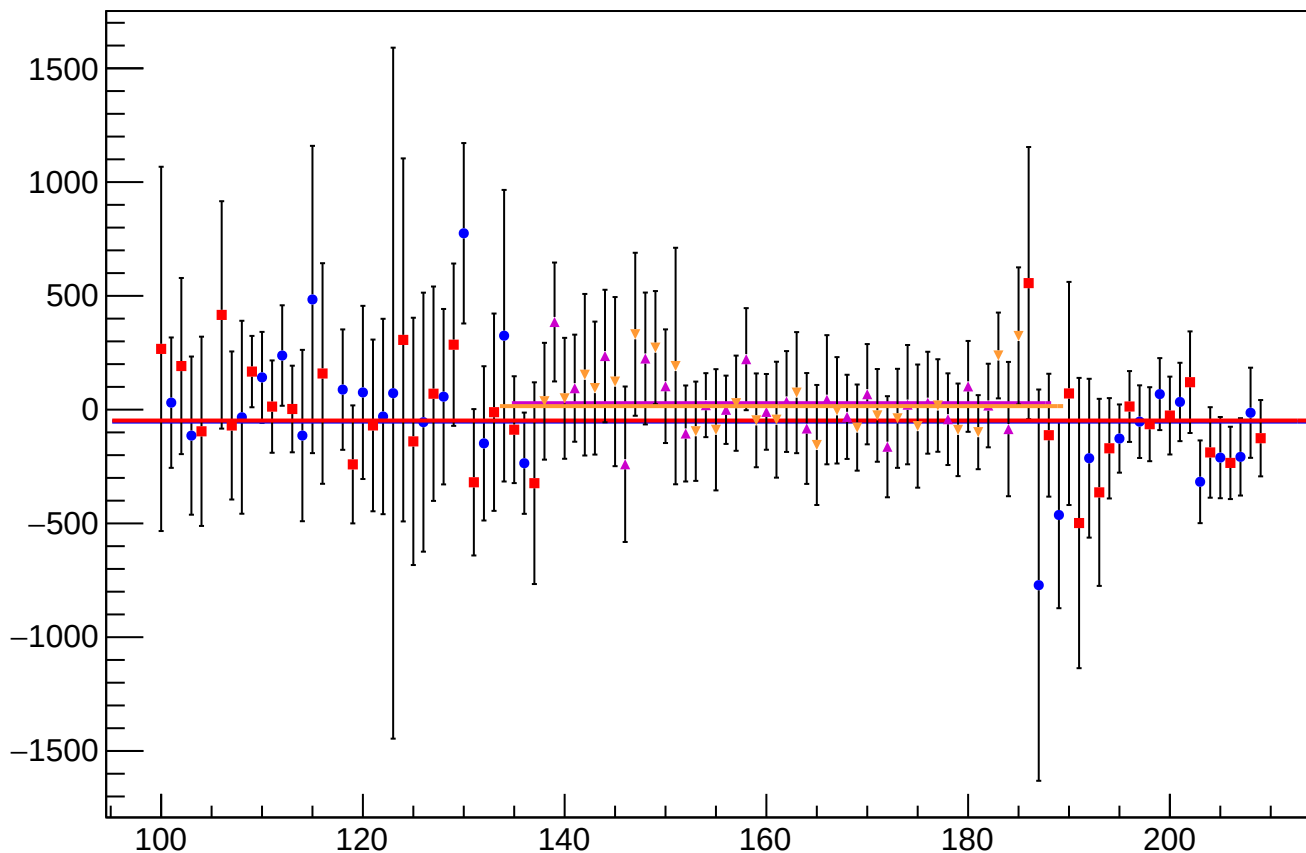
Right: 169.838 $\pm$ 0.023 χ^2 /NDF: 4946250.7/59

In: 175.011 $\pm$ 0.023 χ^2 /NDF:3768156.9/50

Out: 183.000 $\pm$ 0.023 χ^2 /NDF:4990324.9/56

All: 178.951 $\pm$ 0.016 χ^2 /NDF: 8818195.0/107

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -52.632 ± 47.131 $\chi^2/\text{NDF}: 16.2/27$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -47.851 ± 45.403 $\chi^2/\text{NDF}: 11.9/31$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

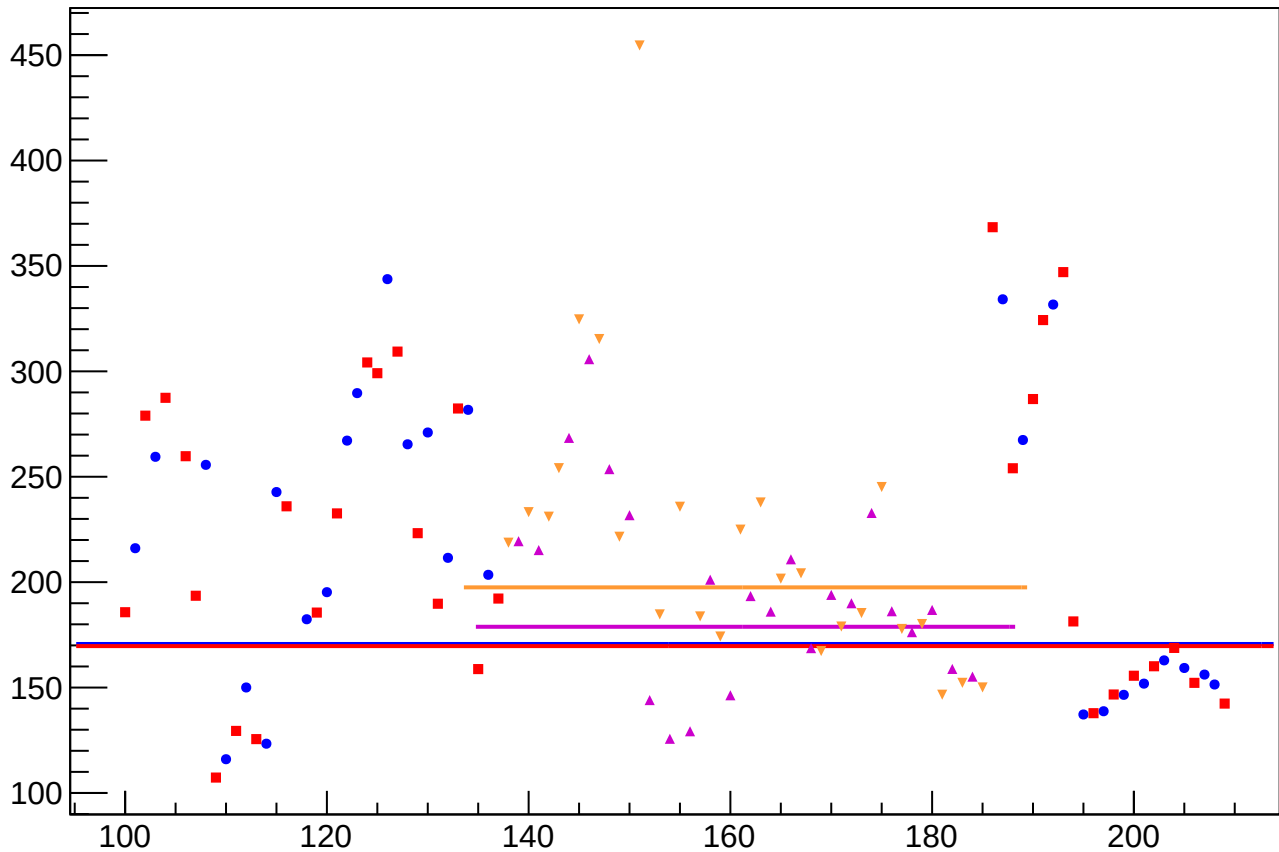
Right: -50.152 ± 32.698 $\chi^2/\text{NDF}: 28.0/59$

In: -10.076 ± 32.450 $\chi^2/\text{NDF}: 24.1/50$

Out: -17.764 ± 32.885 $\chi^2/\text{NDF}: 19.8/56$

All: -13.869 ± 23.098 $\chi^2/\text{NDF}: 43.9/107$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 170.674 $\pm$ 0.033 χ^2 /NDF: 2079262.7/27

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF:1784225.5/24

Right Out: 169.663 $\pm$ 0.032 χ^2 /NDF: 2787233.8/31

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

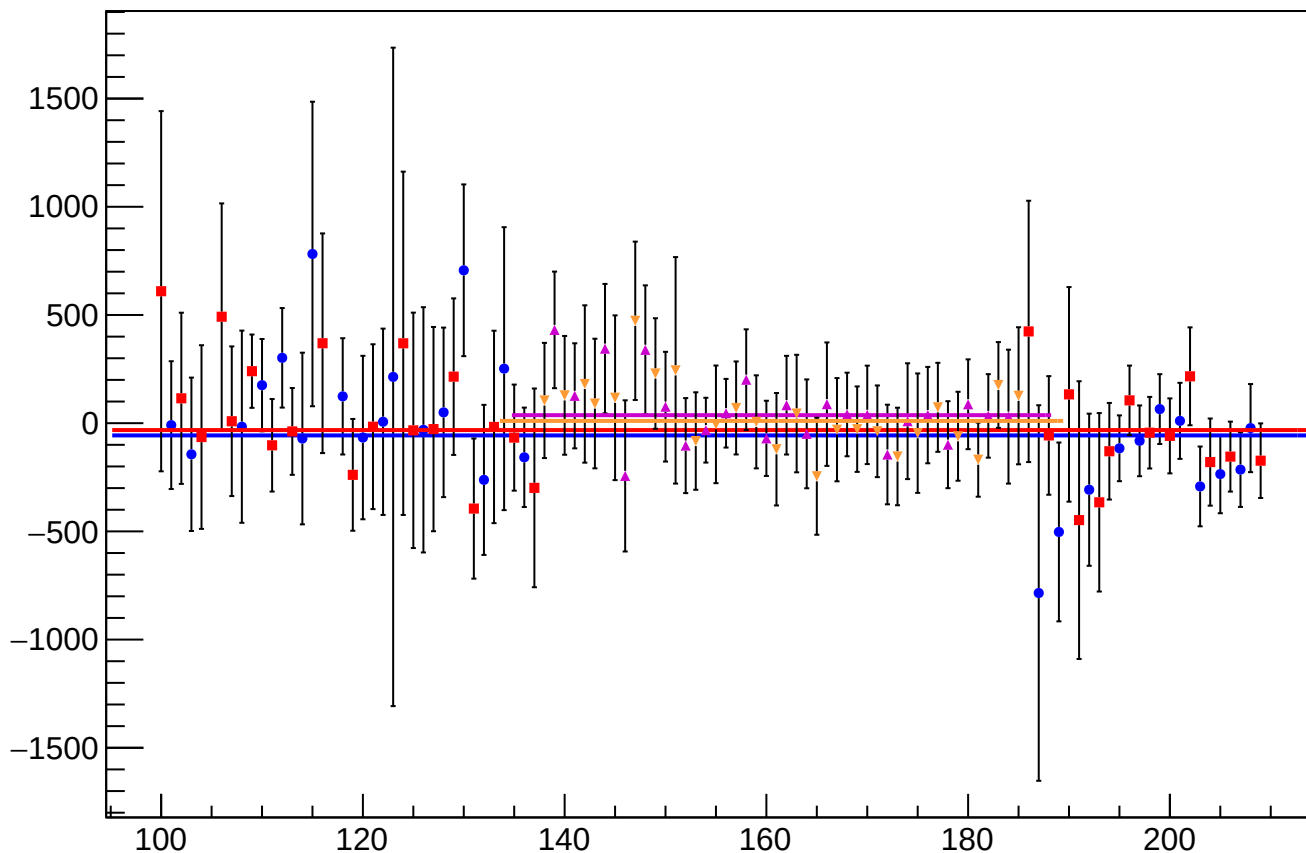
Right: 170.150 $\pm$ 0.023 χ^2 /NDF: 4866973.6/59

In: 174.967 $\pm$ 0.023 χ^2 /NDF:3733076.7/50

Out: 182.910 $\pm$ 0.023 χ^2 /NDF:4929568.4/56

All: 178.885 $\pm$ 0.016 χ^2 /NDF: 8721762.5/107

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -56.561 ± 48.192 χ^2/NDF : 16.9/27

Left Out: 10.534 ± 49.197 χ^2/NDF : 7.5/24

Right Out: -31.891 ± 46.668 χ^2/NDF : 13.8/31

Left In: 37.000 ± 46.358 χ^2/NDF : 7.9/22

Left: 24.553 ± 33.739 χ^2/NDF : 15.5/47

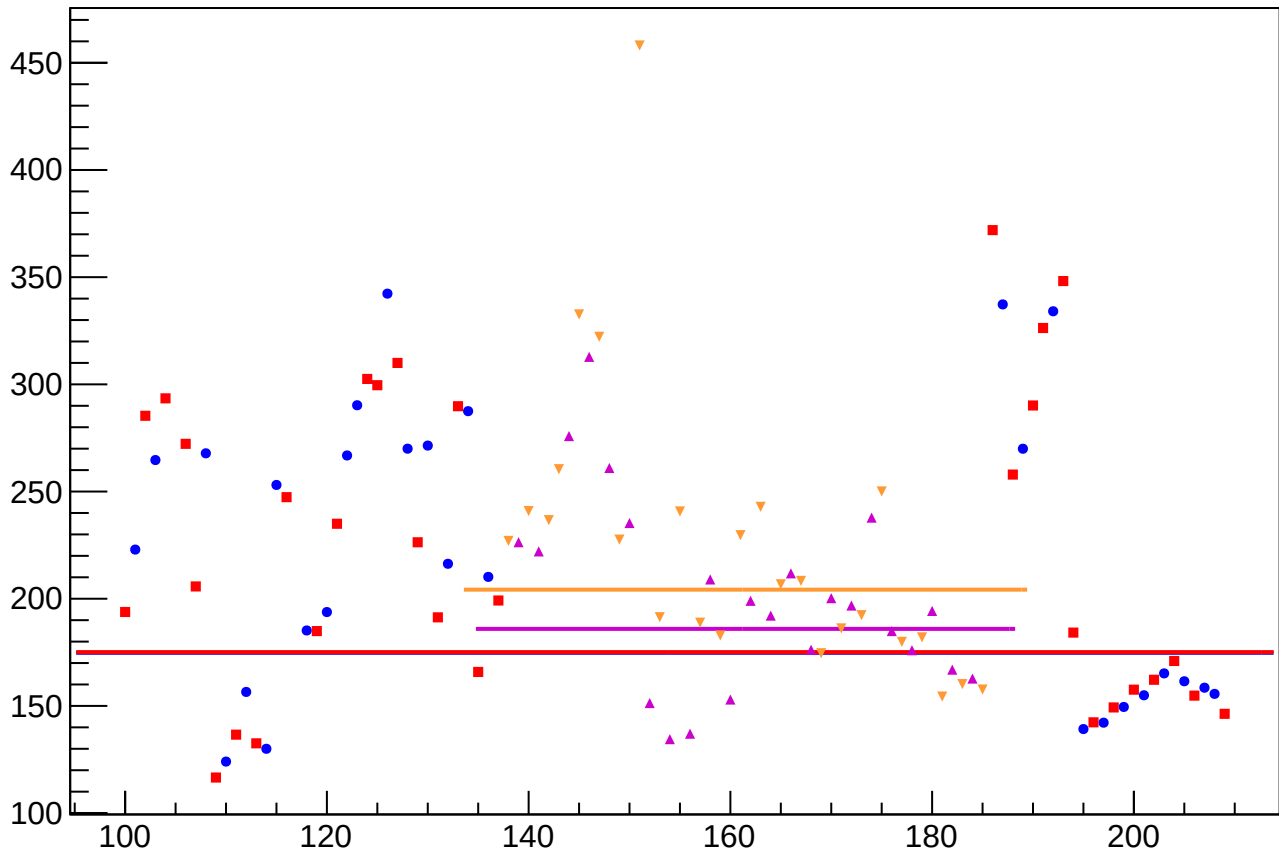
Right: -43.830 ± 33.525 χ^2/NDF : 30.8/59

In: -7.966 ± 33.409 χ^2/NDF : 26.8/50

Out: -11.797 ± 33.858 χ^2/NDF : 21.6/56

All: -9.856 ± 23.781 χ^2/NDF : 48.4/107

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 174.794 ± 0.034 $\chi^2/\text{NDF}: 2006434.9/27$

Left Out: 204.236 ± 0.035 $\chi^2/\text{NDF}: 1675666.0/24$

Right Out: 175.092 ± 0.033 $\chi^2/\text{NDF}: 2606105.4/31$

Left In: 185.931 ± 0.033 $\chi^2/\text{NDF}: 1460065.0/22$

Left: 194.540 ± 0.024 $\chi^2/\text{NDF}: 3282383.3/47$

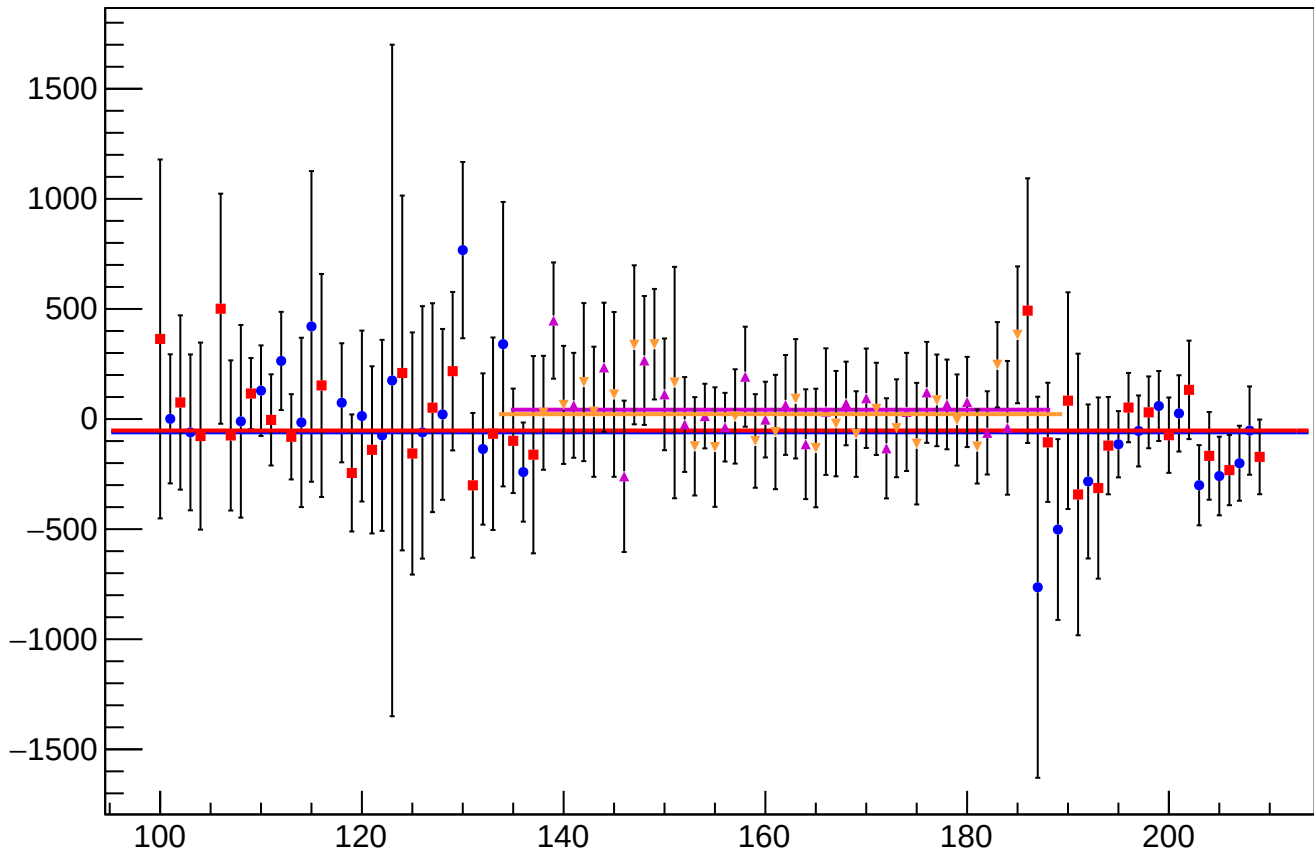
Right: 174.948 ± 0.024 $\chi^2/\text{NDF}: 4612579.8/59$

In: 180.579 ± 0.024 $\chi^2/\text{NDF}: 3521981.1/50$

Out: 188.896 ± 0.024 $\chi^2/\text{NDF}: 4651198.1/56$

All: 184.682 ± 0.017 $\chi^2/\text{NDF}: 8234326.6/107$

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -60.243 ± 47.580 $\chi^2/\text{NDF}: 16.0/27$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -51.940 ± 45.926 $\chi^2/\text{NDF}: 10.0/31$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

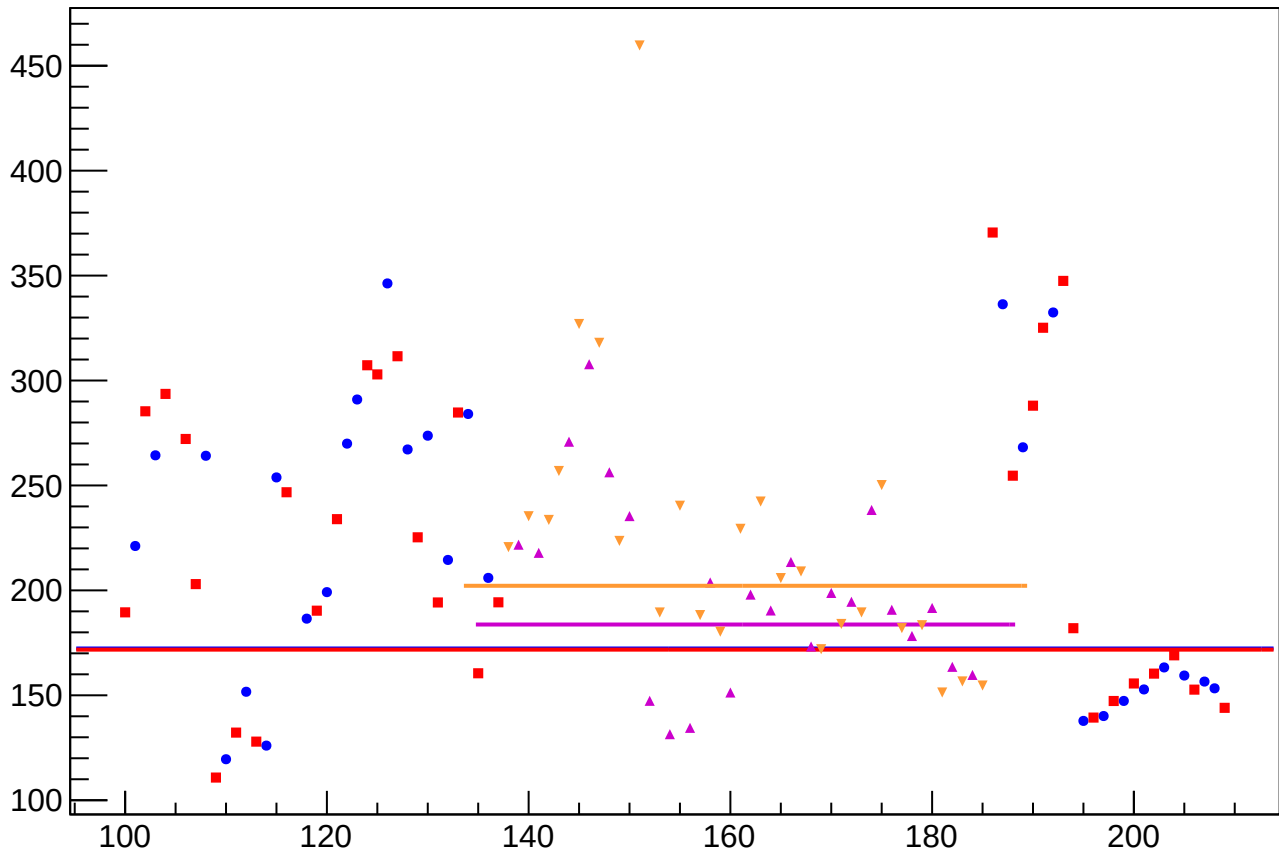
Right: -55.945 ± 33.044 $\chi^2/\text{NDF}: 26.0/59$

In: -7.010 ± 33.019 $\chi^2/\text{NDF}: 25.2/50$

Out: -17.076 ± 33.425 $\chi^2/\text{NDF}: 19.6/56$

All: -11.982 ± 23.490 $\chi^2/\text{NDF}: 44.8/107$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 172.305 $\pm$ 0.034 χ^2 /NDF: 2088481.0/27

Left Out: 202.186 $\pm$ 0.034 χ^2 /NDF:1696571.9/24

Right Out: 171.763 $\pm$ 0.032 χ^2 /NDF: 2766745.8/31

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

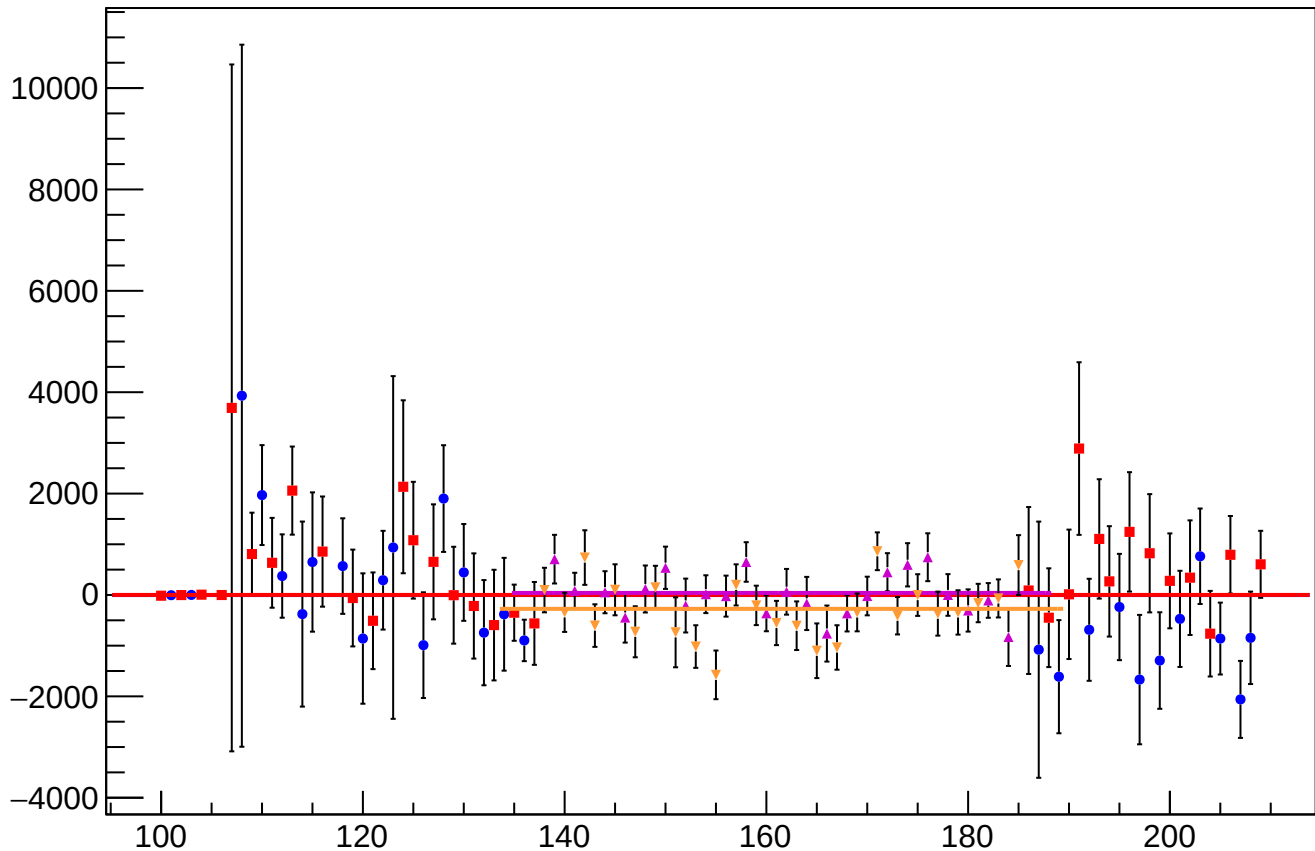
Right: 172.024 $\pm$ 0.023 χ^2 /NDF: 4855361.5/59

In: 178.229 $\pm$ 0.023 χ^2 /NDF:3644213.8/50

Out: 186.071 $\pm$ 0.024 χ^2 /NDF:4876103.7/56

All: 182.102 $\pm$ 0.017 χ^2 /NDF: 8576041.6/107

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.583 ± 2.251 χ^2/NDF : 33.8/27

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.755 ± 2.111 χ^2/NDF : 26.8/31

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

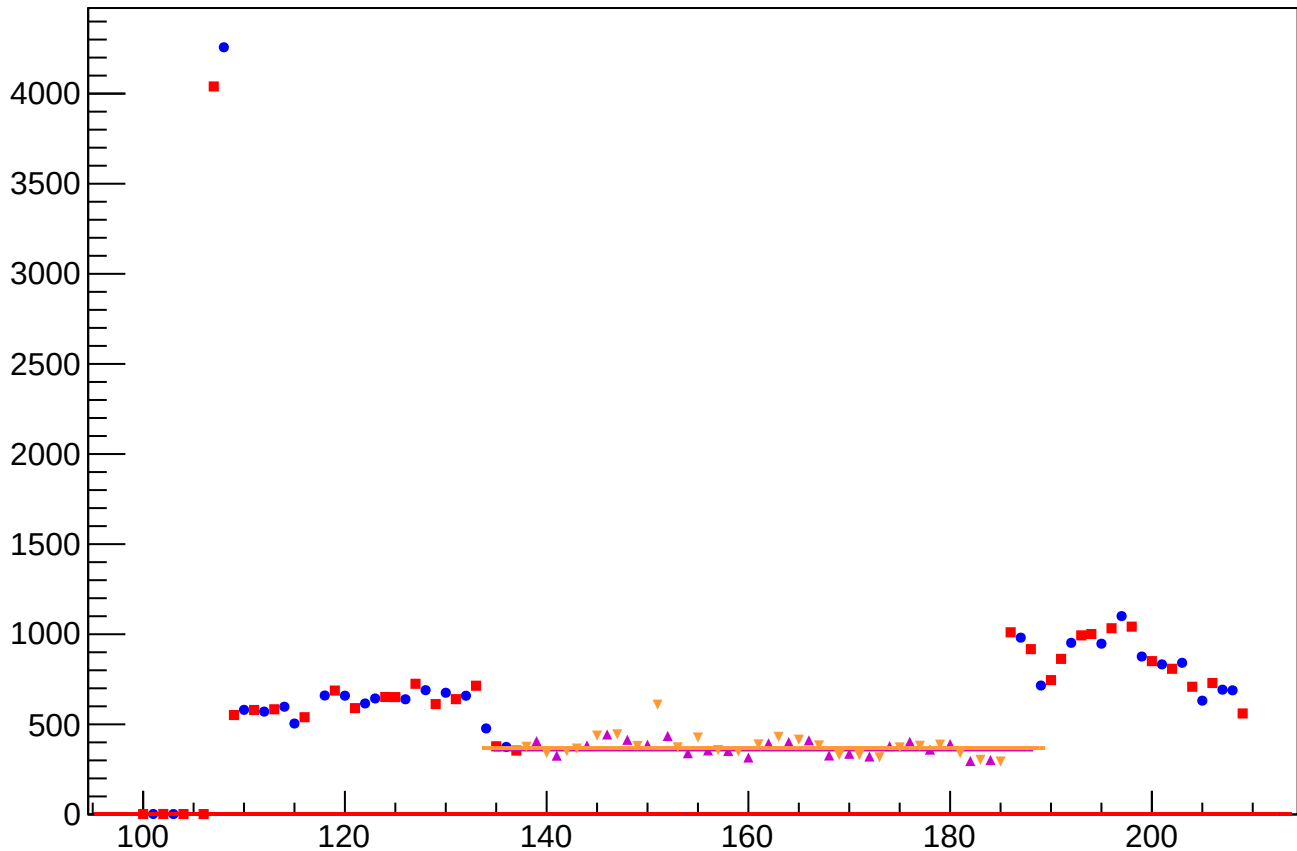
Right: -0.339 ± 1.540 χ^2/NDF : 61.1/59

In: -1.555 ± 2.251 χ^2/NDF : 54.2/50

Out: 0.593 ± 2.110 χ^2/NDF : 75.1/56

All: -0.412 ± 1.539 χ^2/NDF : 129.7/107

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.503 $\pm$ 0.002 χ^2 /NDF: 25833472.4/27

Left Out: 368.500 $\pm$ 0.061 χ^2 /NDF: 623011.6/24

Right Out: 2.482 $\pm$ 0.001 χ^2 /NDF: 28304332.0/31

Left In: 360.571 $\pm$ 0.062 χ^2 /NDF: 421995.5/22

Left: 364.563 $\pm$ 0.044 χ^2 /NDF: 1053279.8/47

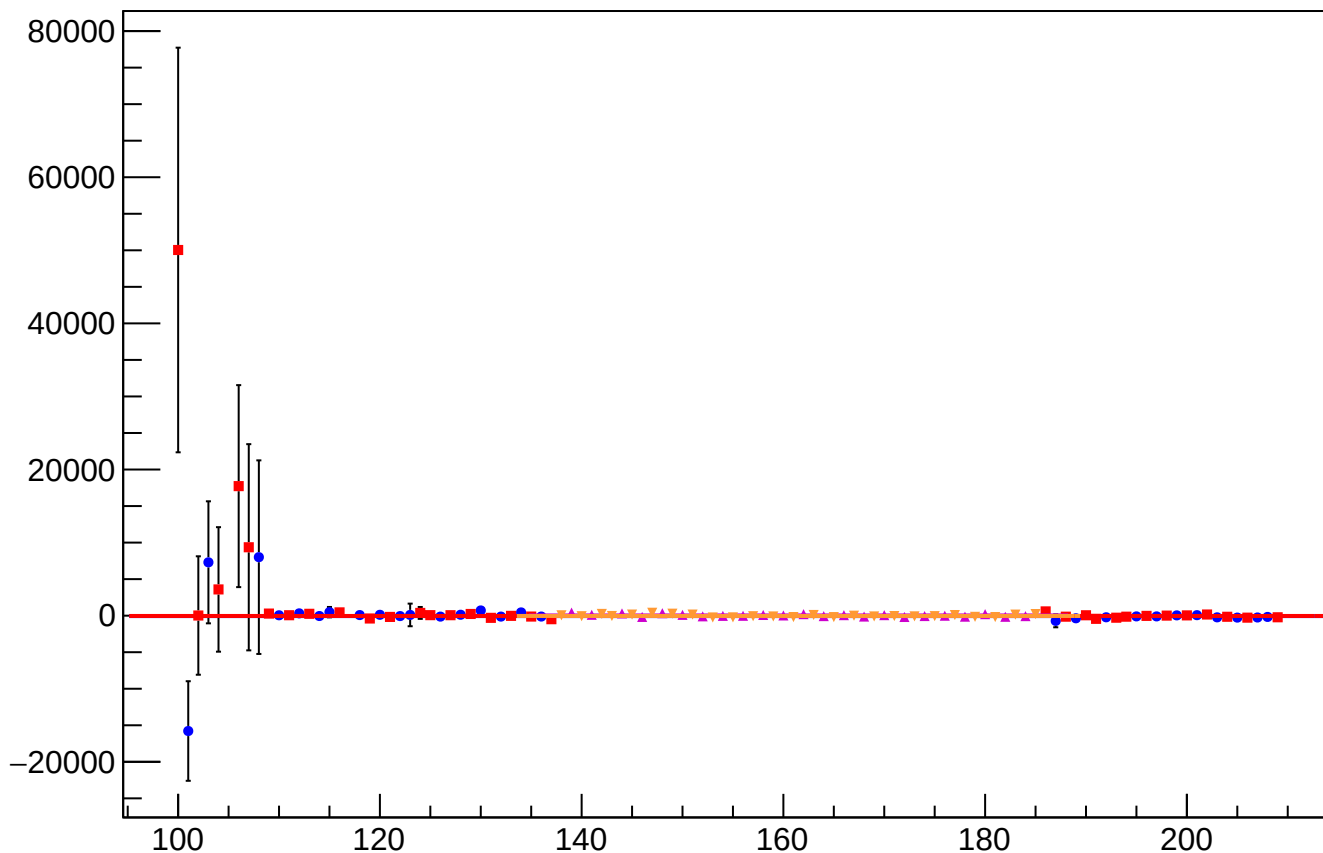
Right: 2.492 $\pm$ 0.001 χ^2 /NDF: 54137895.3/59

In: 2.740 $\pm$ 0.002 χ^2 /NDF: 59748651.8/50

Out: 2.698 $\pm$ 0.001 χ^2 /NDF: 64412404.7/56

All: 2.718 $\pm$ 0.001 χ^2 /NDF: 124161424.1/107

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -56.234+/-52.127 χ^2/NDF : 20.4/27

Left Out: -39.036+/-49.576 χ^2/NDF : 9.1/24

Right Out: -40.681+/-51.050 χ^2/NDF : 21.1/31

Left In: 28.062+/-48.032 χ^2/NDF : 9.6/22

Left: -4.426+/-34.497 χ^2/NDF : 19.7/47

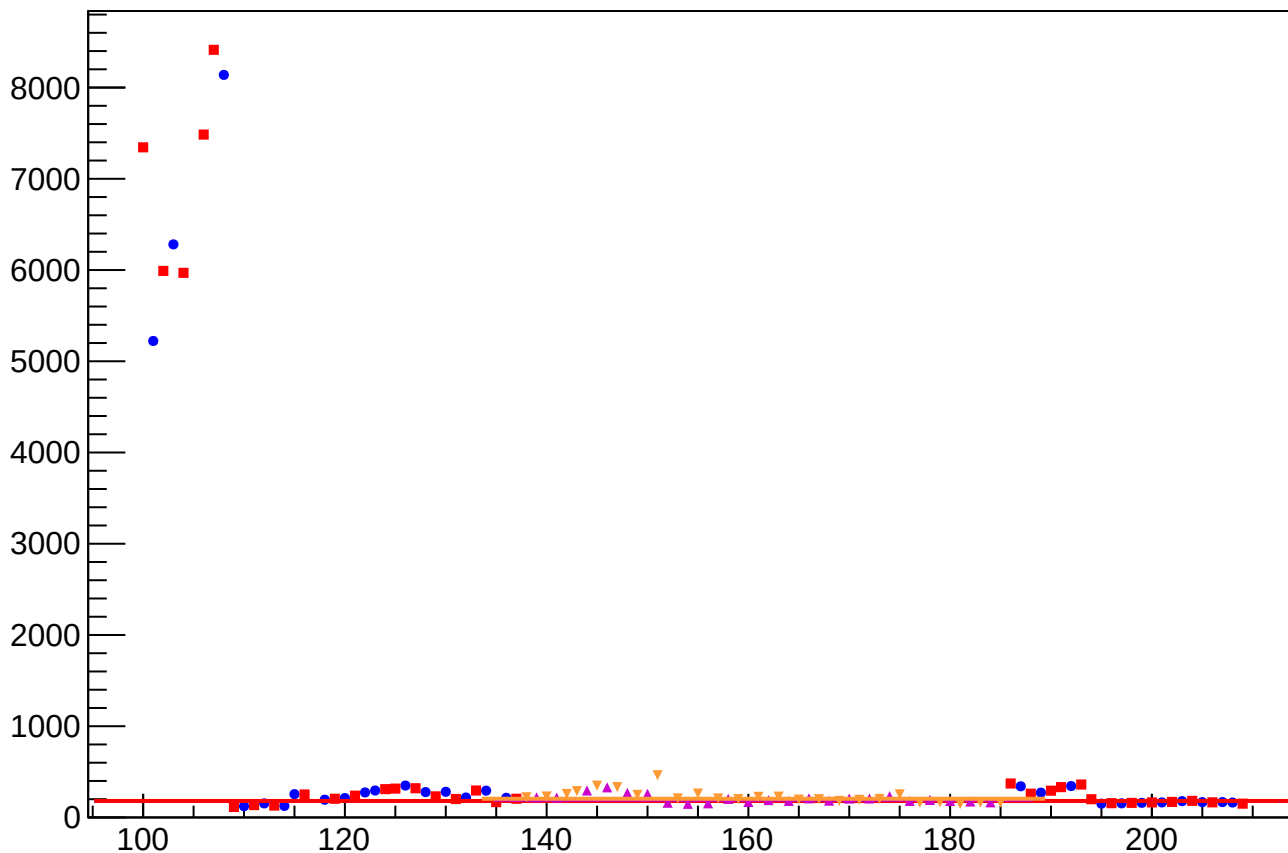
Right: -48.295+/-36.473 χ^2/NDF : 41.6/59

In: -10.645+/-35.323 χ^2/NDF : 31.4/50

Out: -39.834+/-35.565 χ^2/NDF : 30.2/56

All: -25.140+/-25.062 χ^2/NDF : 62.0/107

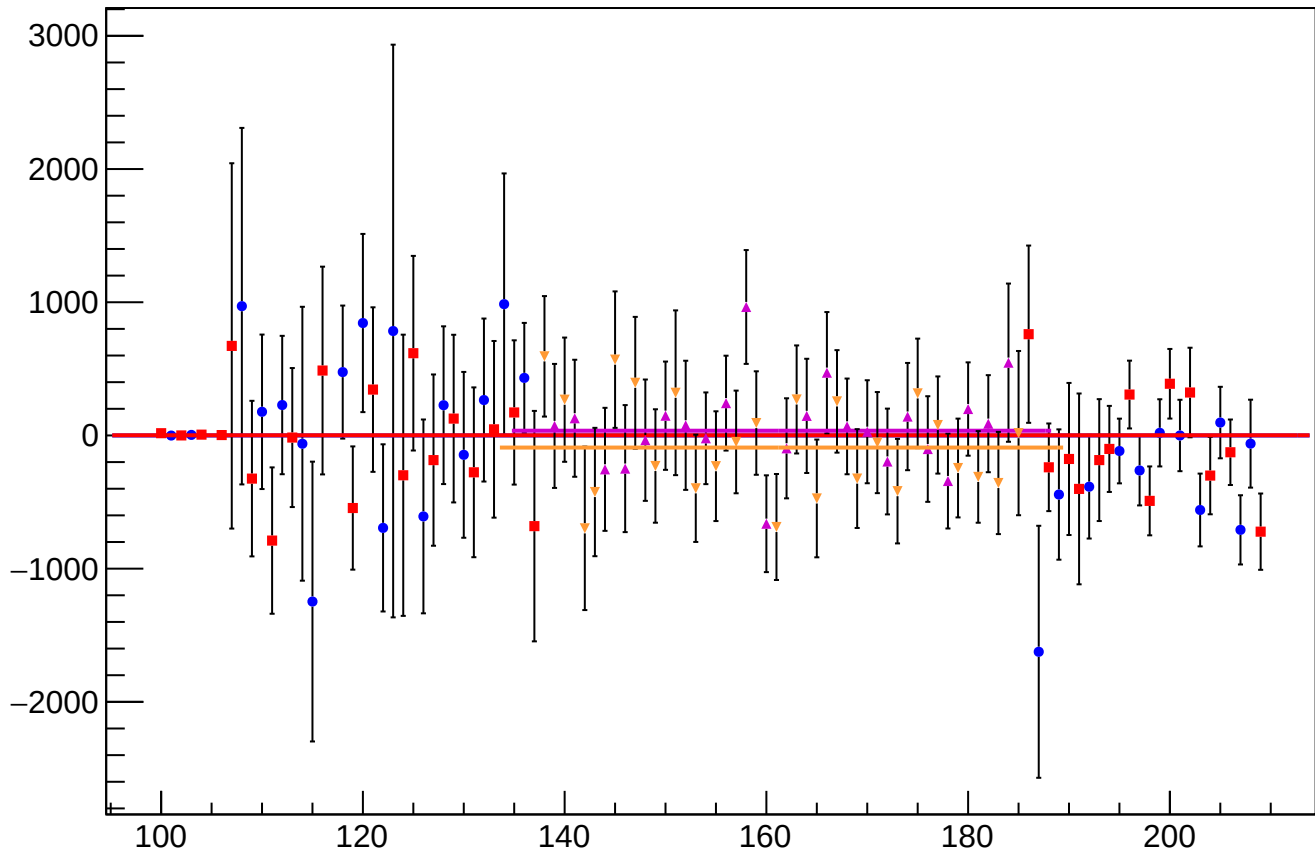
asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 180.145+/-0.037 χ^2/NDF : 4517917.0/27
 Left Out: 205.114+/-0.035 χ^2/NDF :1957484.4/24
 Right Out: 180.805+/-0.036 χ^2/NDF : 5414885.4/31
 Left In: 193.616+/-0.034 χ^2/NDF :1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47
 Right: 180.482+/-0.026 χ^2/NDF : 9932966.0/59
 In: 187.431+/-0.025 χ^2/NDF :5769620.7/50
 Out: 193.316+/-0.025 χ^2/NDF :7605747.8/56
 All: 190.353+/-0.018 χ^2/NDF : 13402935.6/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.228 $\pm$ 1.736 χ^2/NDF : 27.9/27

Left Out: -90.945 $\pm$ 84.079 χ^2/NDF : 16.4/24

Right Out: 1.290 $\pm$ 1.622 χ^2/NDF : 27.7/31

Left In: 35.488 $\pm$ 84.382 χ^2/NDF : 13.4/22

Left: -27.956 $\pm$ 59.560 χ^2/NDF : 31.0/47

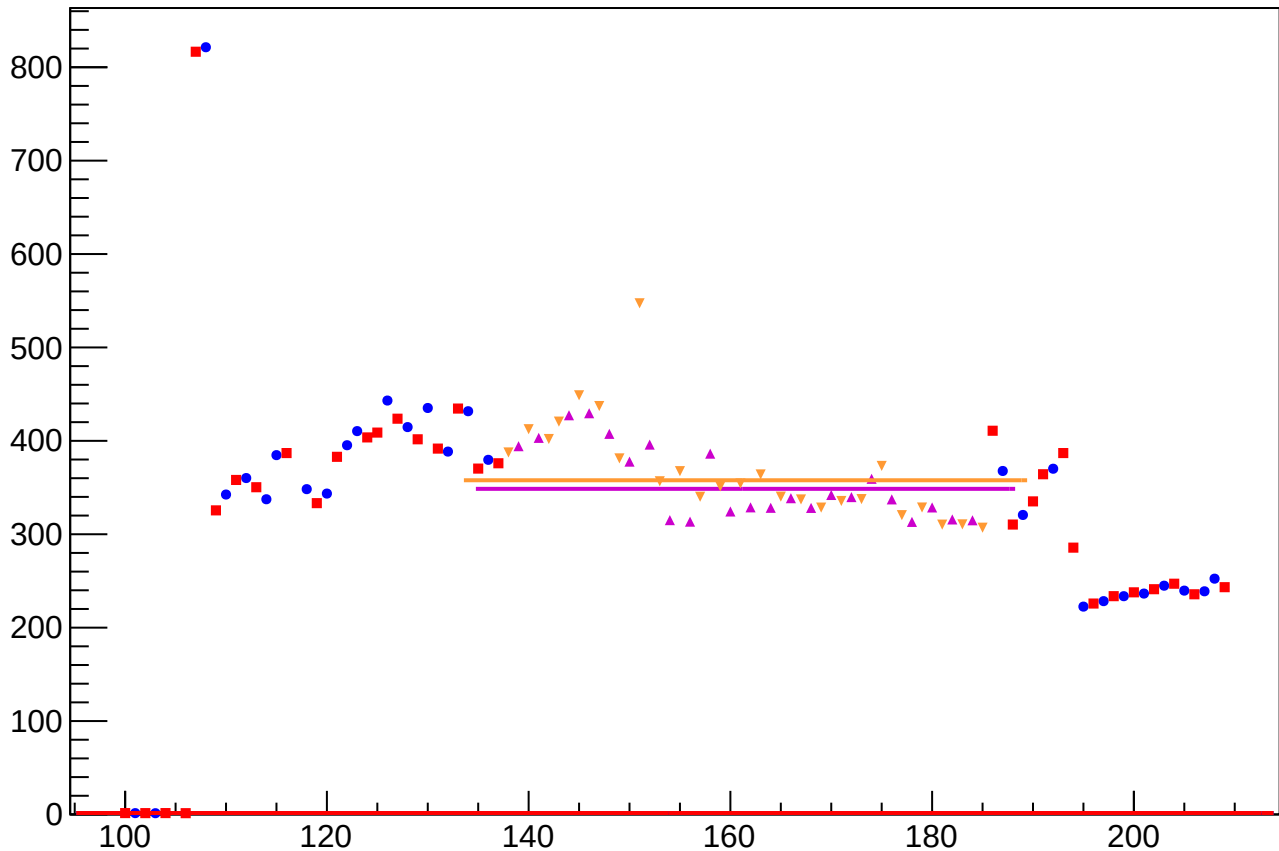
Right: 0.583 $\pm$ 1.185 χ^2/NDF : 56.0/59

In: -0.213 $\pm$ 1.736 χ^2/NDF : 41.5/50

Out: 1.256 $\pm$ 1.622 χ^2/NDF : 45.3/56

All: 0.571 $\pm$ 1.185 χ^2/NDF : 87.2/107

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.544 ± 0.001 χ^2/NDF : 26092394.8/27

Left Out: 357.804 ± 0.059 χ^2/NDF : 547036.5/24

Right Out: 1.536 ± 0.001 χ^2/NDF : 28000992.2/31

Left In: 348.611 ± 0.060 χ^2/NDF : 362511.2/22

Left: 353.224 ± 0.042 χ^2/NDF : 921460.0/47

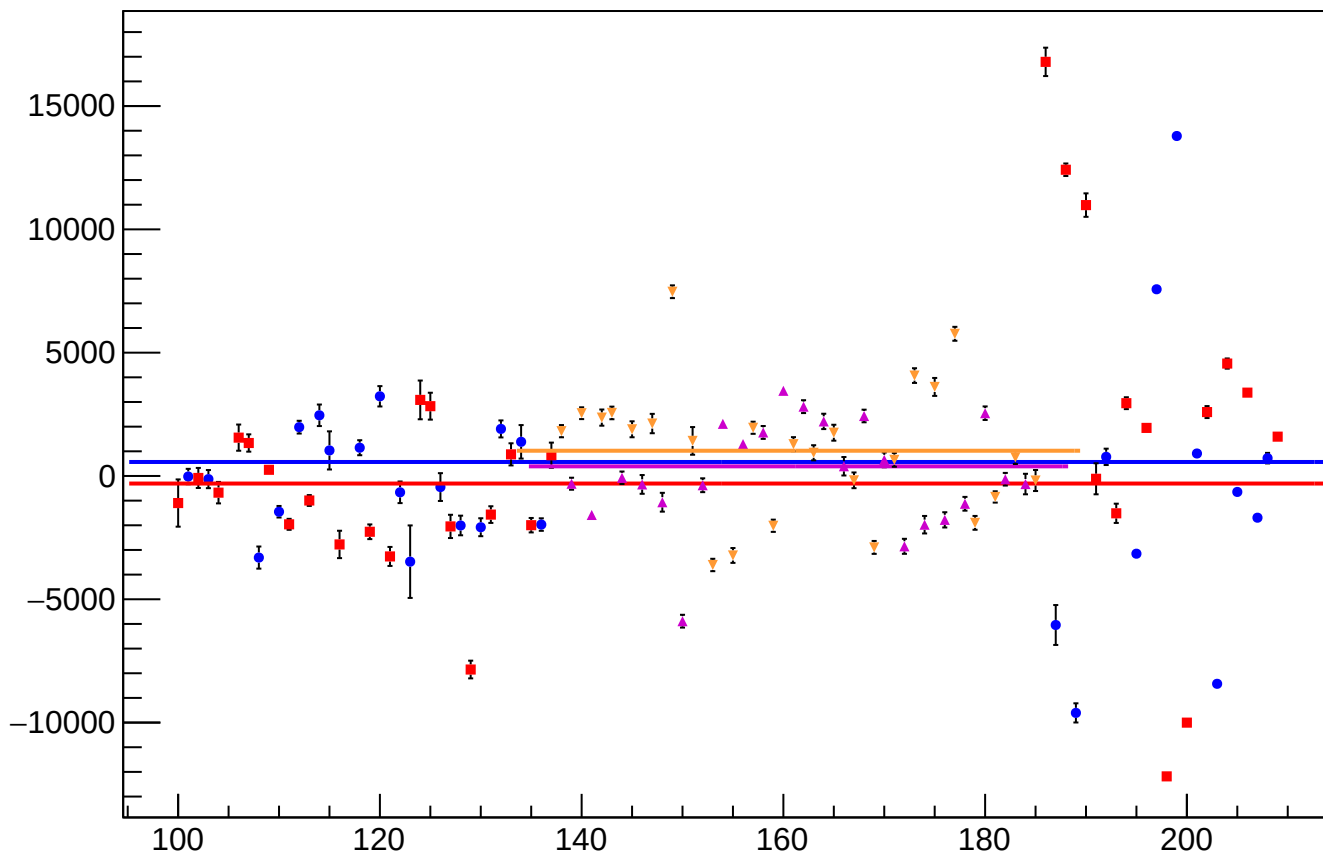
Right: 1.540 ± 0.001 χ^2/NDF : 54093410.1/59

In: 1.691 ± 0.001 χ^2/NDF : 60274584.8/50

Out: 1.669 ± 0.001 χ^2/NDF : 64444512.2/56

All: 1.679 ± 0.001 χ^2/NDF : 124719274.3/107

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 567.421 $\pm$ 51.761 χ^2/NDF : 11007.9/27

Left Out: 1023.439 $\pm$ 57.338 χ^2/NDF : 2309.4/24

Right Out: -307.027 $\pm$ 49.644 χ^2/NDF : 13324.3/31

Left In: 390.237 $\pm$ 54.931 χ^2/NDF : 1584.9/22

Left: 693.270 $\pm$ 39.666 χ^2/NDF : 3957.9/47

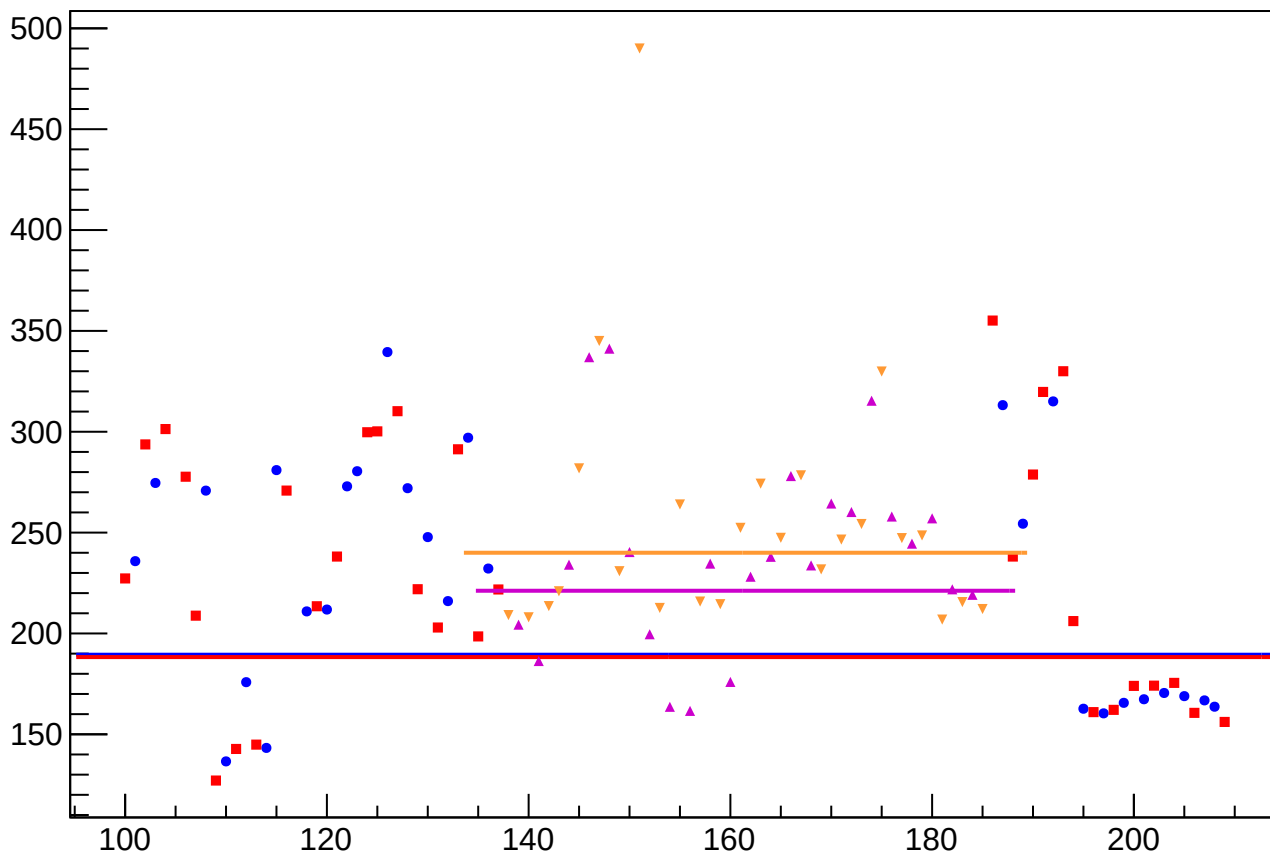
Right: 111.947 $\pm$ 35.829 χ^2/NDF : 24480.9/59

In: 484.089 $\pm$ 37.672 χ^2/NDF : 12598.4/50

Out: 263.014 $\pm$ 37.531 χ^2/NDF : 15941.4/56

All: 373.139 $\pm$ 26.588 χ^2/NDF : 28557.0/107

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 189.457 $\pm$ 0.037 χ^2 /NDF: 1520067.5/27

Left Out: 240.019 $\pm$ 0.041 χ^2 /NDF:1002427.9/24

Right Out: 188.289 $\pm$ 0.035 χ^2 /NDF: 2116471.8/31

Left In: 221.173 $\pm$ 0.039 χ^2 /NDF:1342517.8/22

Left: 230.192 $\pm$ 0.028 χ^2 /NDF: 2457612.6/47

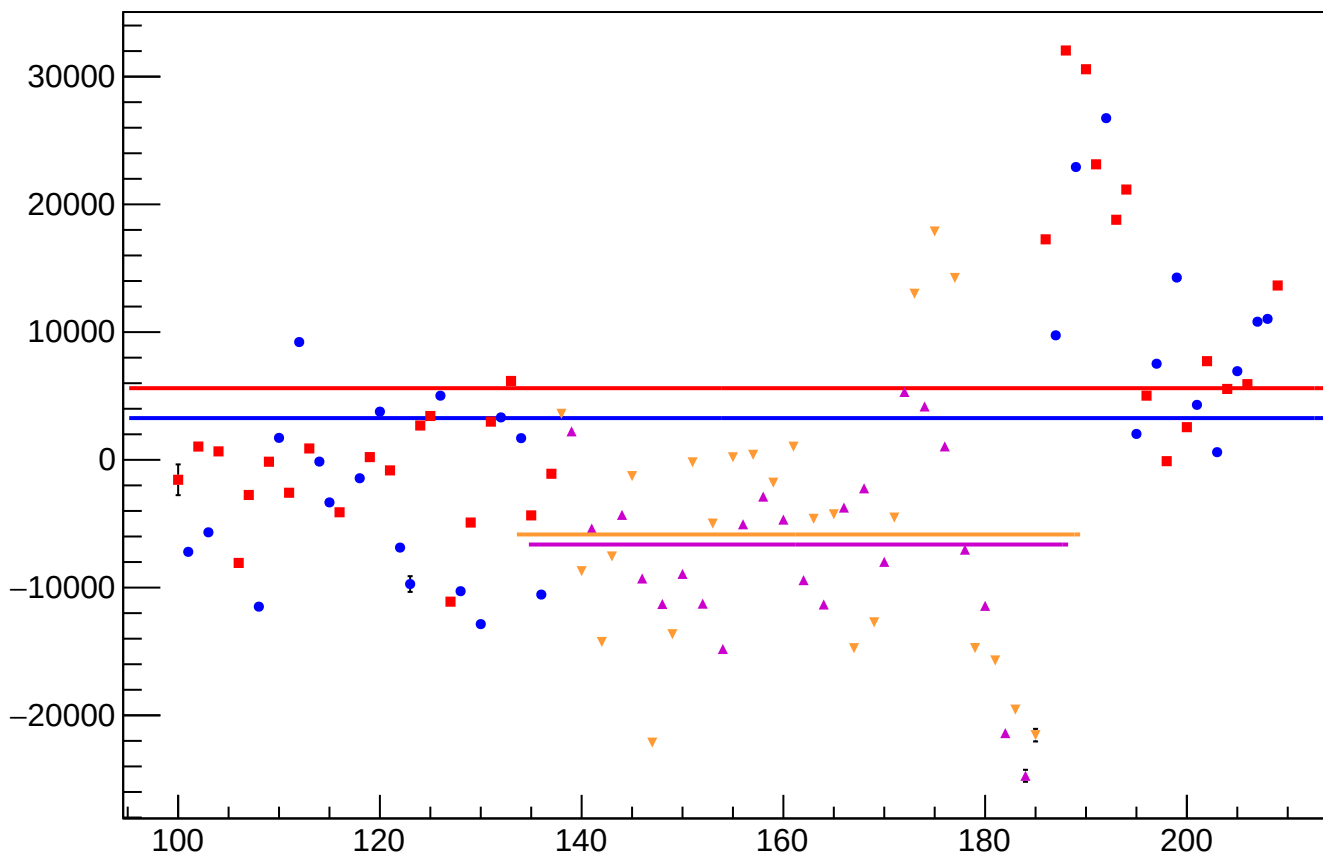
Right: 188.849 $\pm$ 0.025 χ^2 /NDF: 3637070.1/59

In: 204.374 $\pm$ 0.027 χ^2 /NDF:3215726.9/50

Out: 210.453 $\pm$ 0.027 χ^2 /NDF:4049331.4/56

All: 207.425 $\pm$ 0.019 χ^2 /NDF: 7291197.6/107

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3268.973+/-35.946

χ^2/NDF : 81450.5/27

Left: -6220.862+/-25.800

χ^2/NDF : 85367.5/47

Left Out: -5841.615+/-35.848

χ^2/NDF : 63397.3/24

Right: 4511.284+/-24.629

χ^2/NDF : 187132.7/59

Right Out: 5610.594+/-33.814

χ^2/NDF : 103430.8/31

In: -1515.376+/-25.836

χ^2/NDF : 139835.8/50

Out: 218.551+/-24.598

χ^2/NDF : 220835.4/56

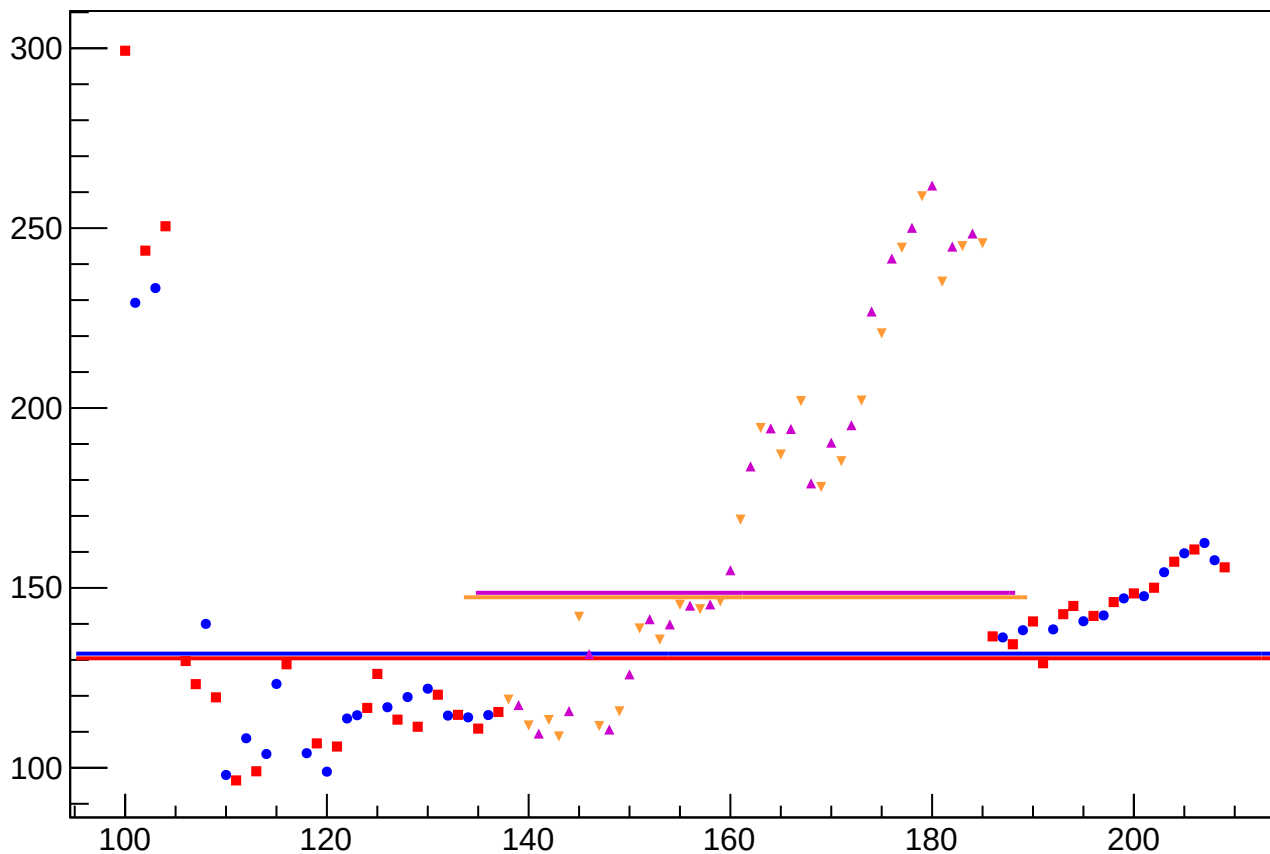
Left In: -6628.388+/-37.160

χ^2/NDF : 21738.0/22

All: -605.854+/-17.815

χ^2/NDF : 363033.8/10

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 131.734+/-0.025 χ^2/NDF : 1023368.1/27

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 130.435+/-0.024 χ^2/NDF : 1109900.7/31

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

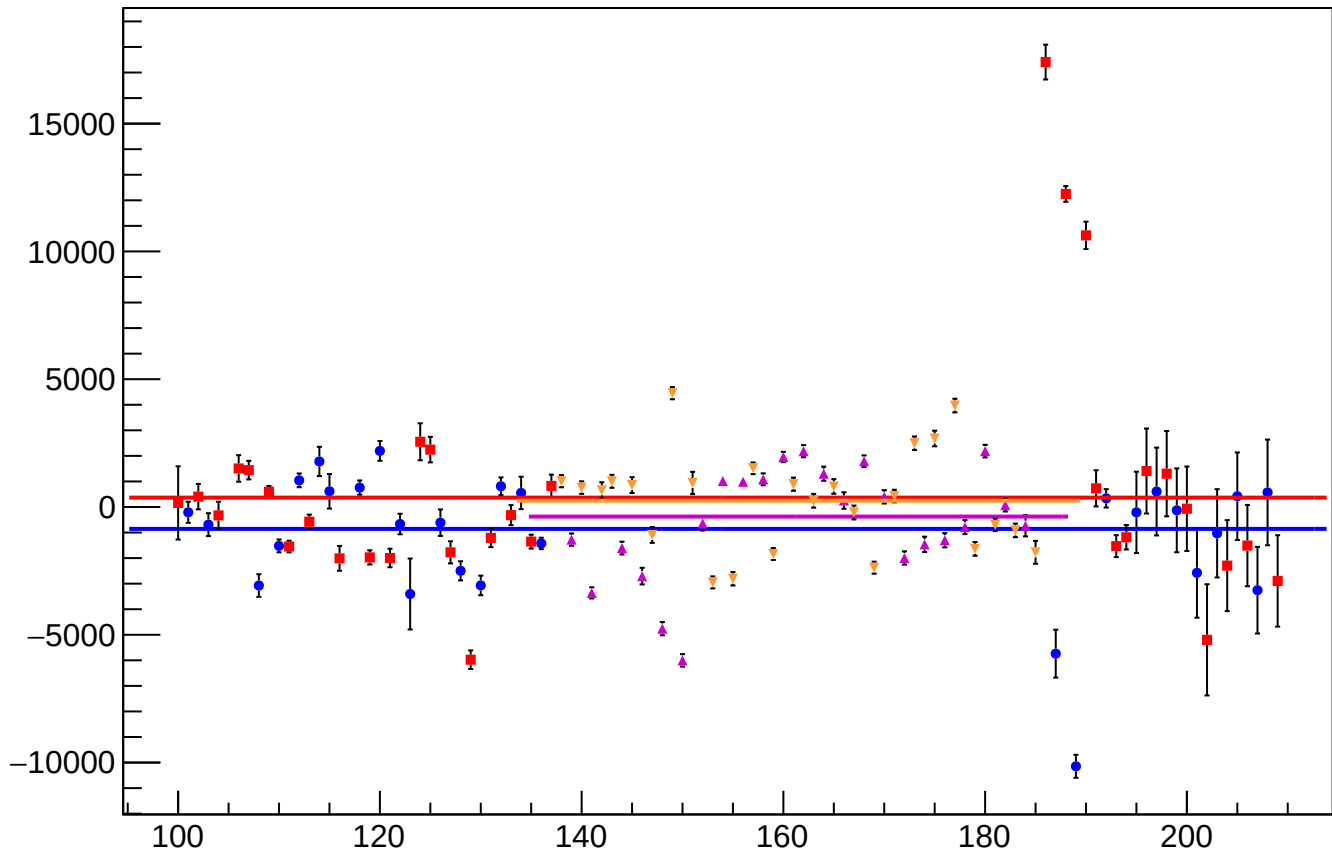
Right: 131.045+/-0.017 χ^2/NDF : 2134654.7/59

In: 139.907+/-0.018 χ^2/NDF : 3652811.8/50

Out: 138.421+/-0.017 χ^2/NDF : 3863934.7/56

All: 139.127+/-0.013 χ^2/NDF : 7520219.5/107

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -856.691 ± 84.048 $\chi^2/\text{NDF}: 764.5/27$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 366.163 ± 74.947 $\chi^2/\text{NDF}: 3174.4/31$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

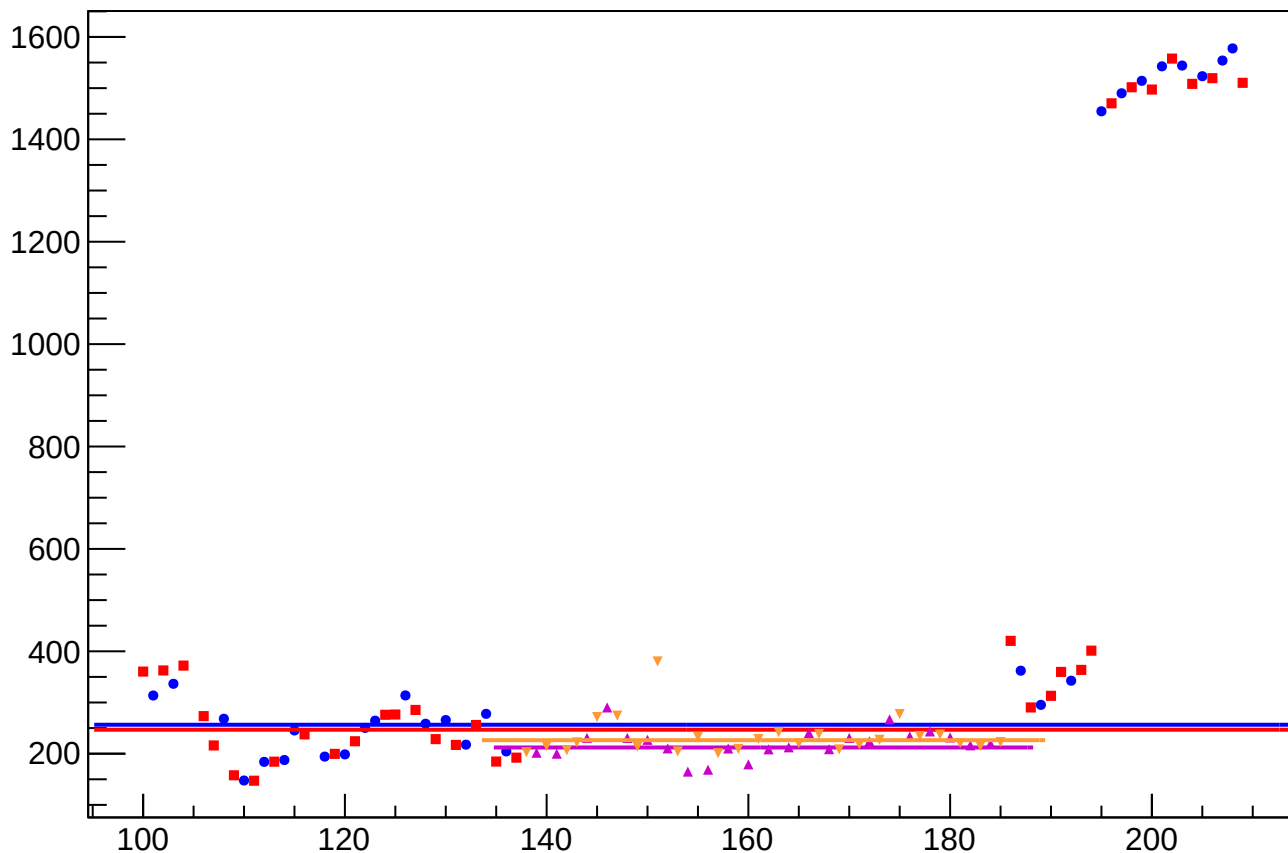
Right: -175.492 ± 55.937 $\chi^2/\text{NDF}: 4056.8/59$

In: -507.555 ± 44.155 $\chi^2/\text{NDF}: 2586.6/50$

Out: 286.633 ± 43.539 $\chi^2/\text{NDF}: 4530.9/56$

All: -104.891 ± 31.002 $\chi^2/\text{NDF}: 7281.5/107$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 256.535 $\pm$ 0.059 χ^2 /NDF: 9712350.0/27

Left Out: 226.376 $\pm$ 0.038 χ^2 /NDF: 521770.1/24

Right Out: 246.808 $\pm$ 0.053 χ^2 /NDF: 9269743.8/31

Left In: 212.145 $\pm$ 0.037 χ^2 /NDF: 591698.6/22

Left: 219.044 $\pm$ 0.026 χ^2 /NDF: 1186390.8/47

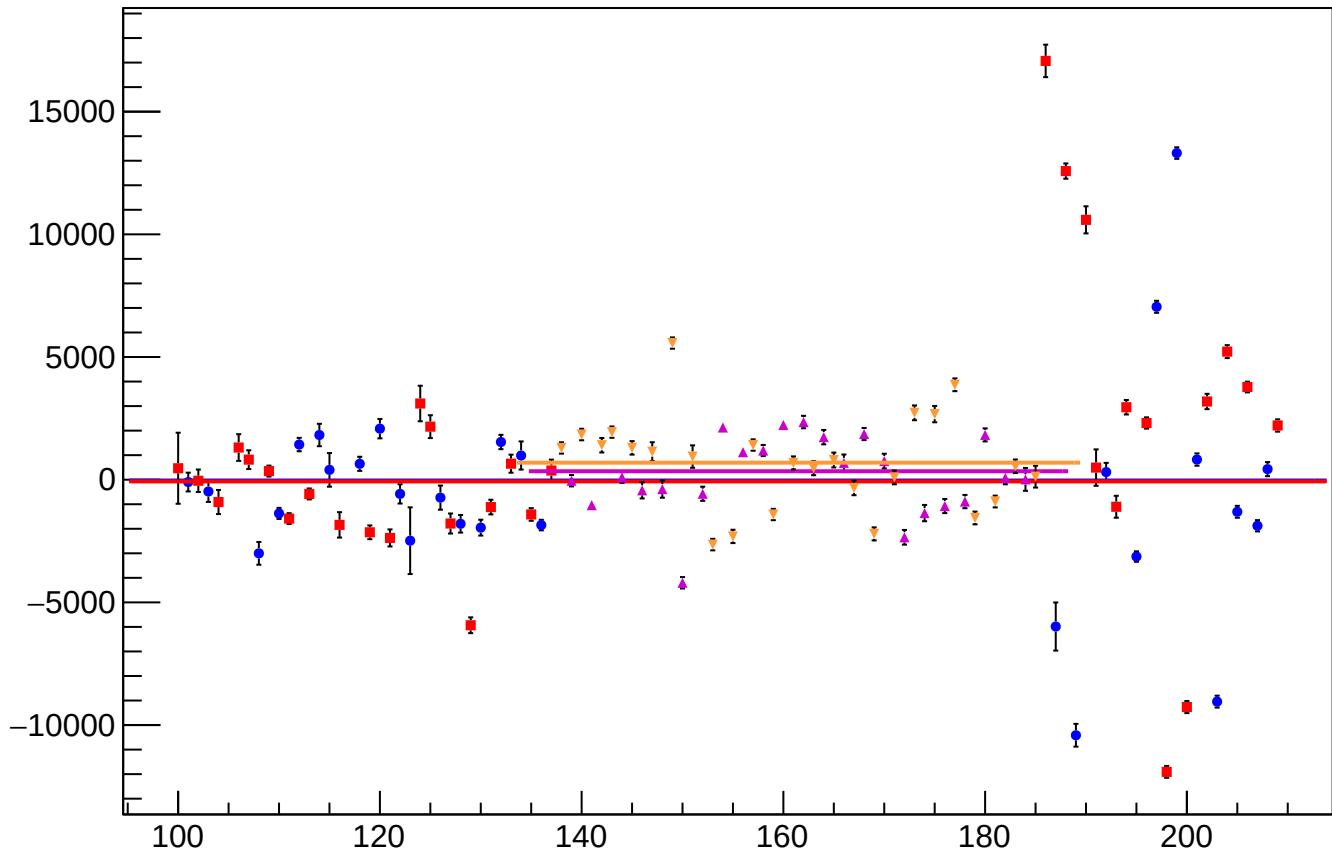
Right: 251.117 $\pm$ 0.040 χ^2 /NDF: 18997016.5/59

In: 224.396 $\pm$ 0.031 χ^2 /NDF: 10707967.3/50

Out: 233.271 $\pm$ 0.031 χ^2 /NDF: 9889996.2/56

All: 228.896 $\pm$ 0.022 χ^2 /NDF: 20638931.3/10

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -34.385 ± 58.682 χ^2/NDF : 6606.0/27

Left Out: 694.326 ± 54.246 χ^2/NDF : 1422.1/24

Right Out: -69.092 ± 56.470 χ^2/NDF : 8214.6/31

Left In: 344.578 ± 52.954 χ^2/NDF : 985.0/22

Left: 515.236 ± 37.893 χ^2/NDF : 2428.4/47

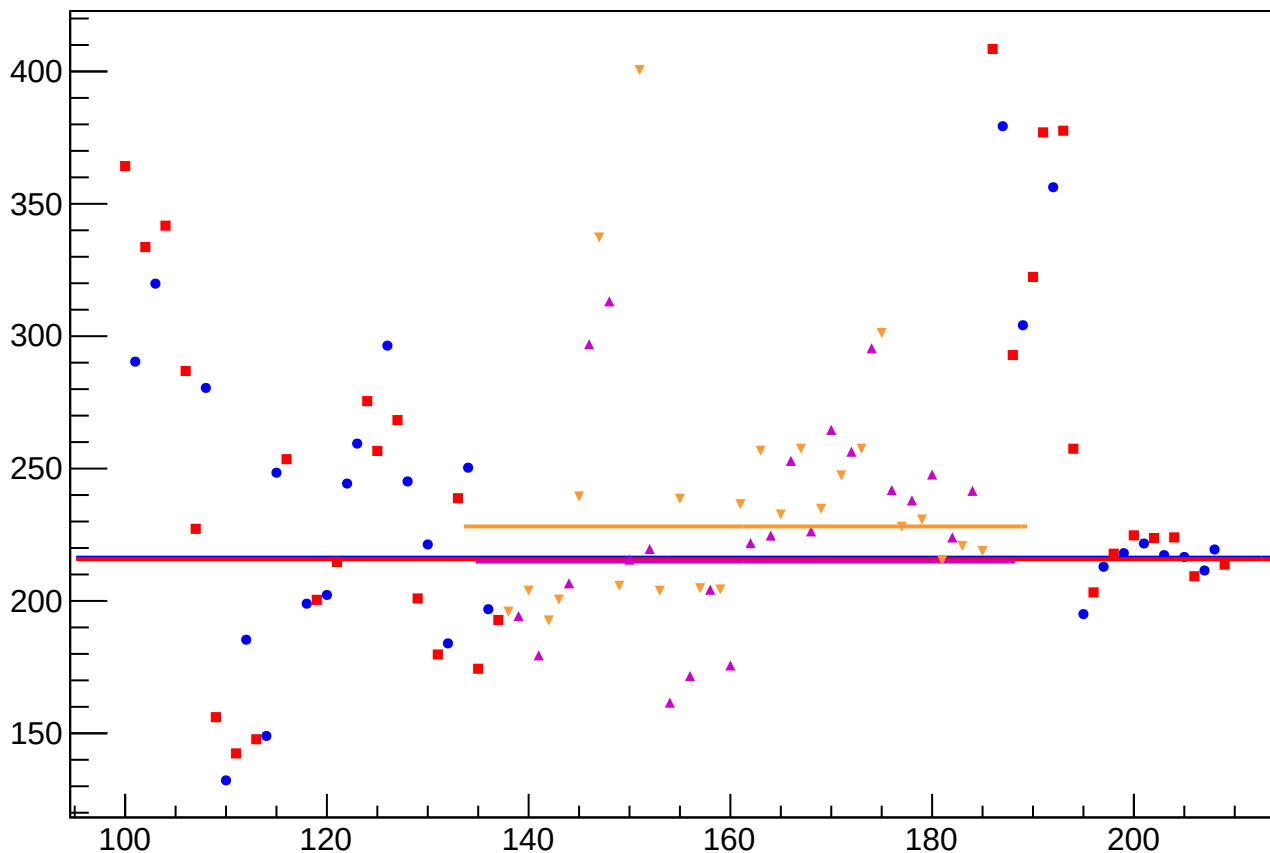
Right: -52.405 ± 40.690 χ^2/NDF : 14820.8/59

In: 174.489 ± 39.314 χ^2/NDF : 7614.0/50

Out: 327.940 ± 39.120 χ^2/NDF : 9731.8/56

All: 251.592 ± 27.730 χ^2/NDF : 17353.4/107

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.351 $\pm$ 0.041 χ^2 /NDF: 1144971.8/27

Left Out: 228.144 $\pm$ 0.038 χ^2 /NDF: 828399.3/24

Right Out: 215.760 $\pm$ 0.040 χ^2 /NDF: 1821659.0/31

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

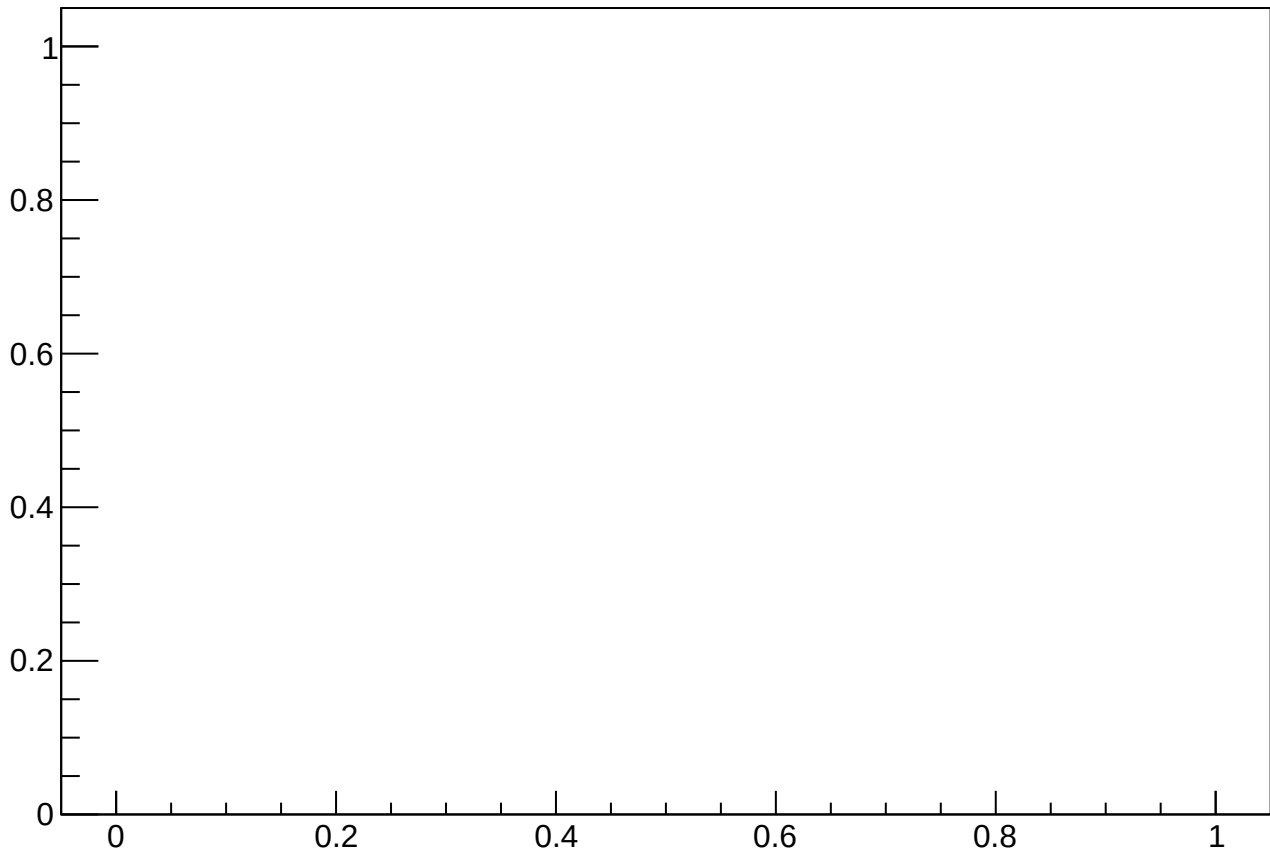
Right: 216.044 $\pm$ 0.029 χ^2 /NDF: 2966736.3/59

In: 215.539 $\pm$ 0.028 χ^2 /NDF: 2183176.2/50

Out: 222.200 $\pm$ 0.028 χ^2 /NDF: 2700081.4/56

All: 218.886 $\pm$ 0.020 χ^2 /NDF: 4912106.5/107

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

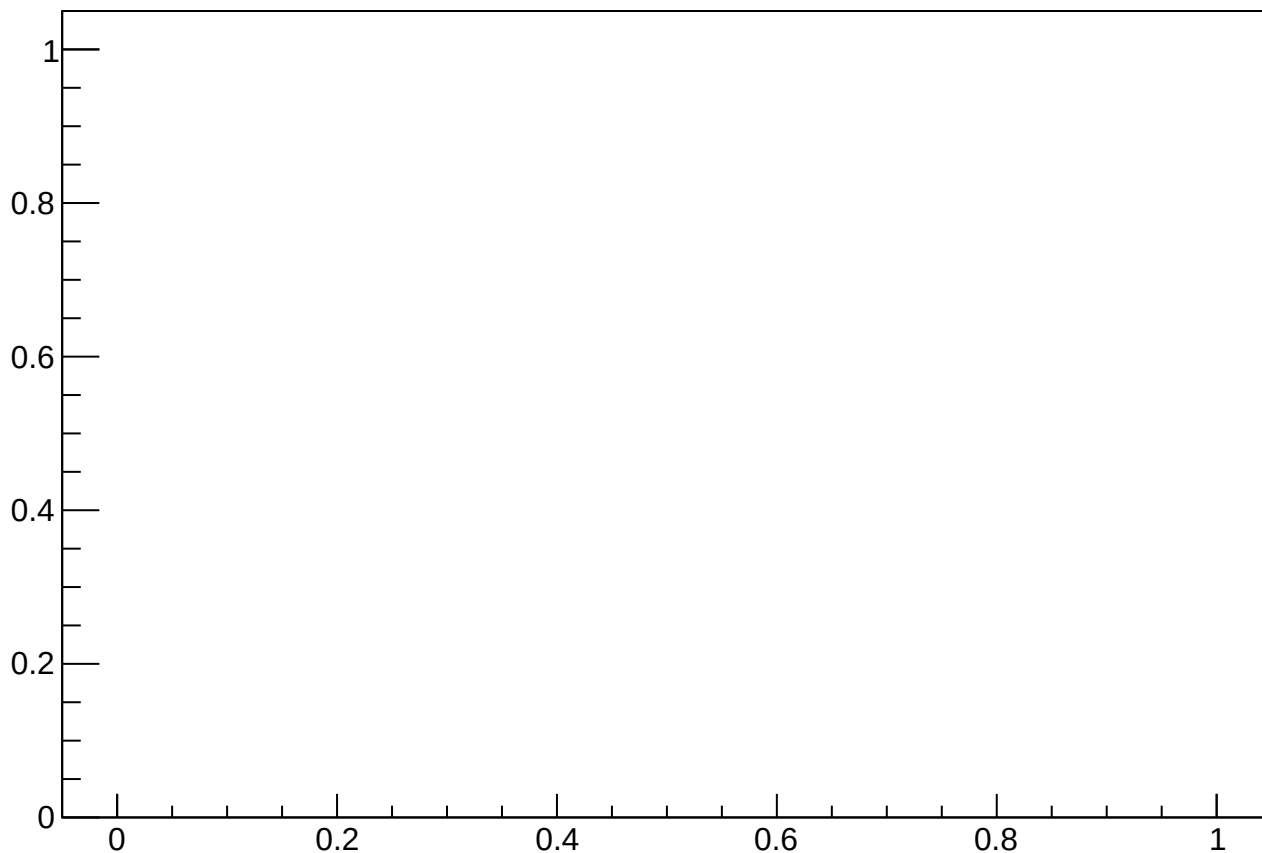
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

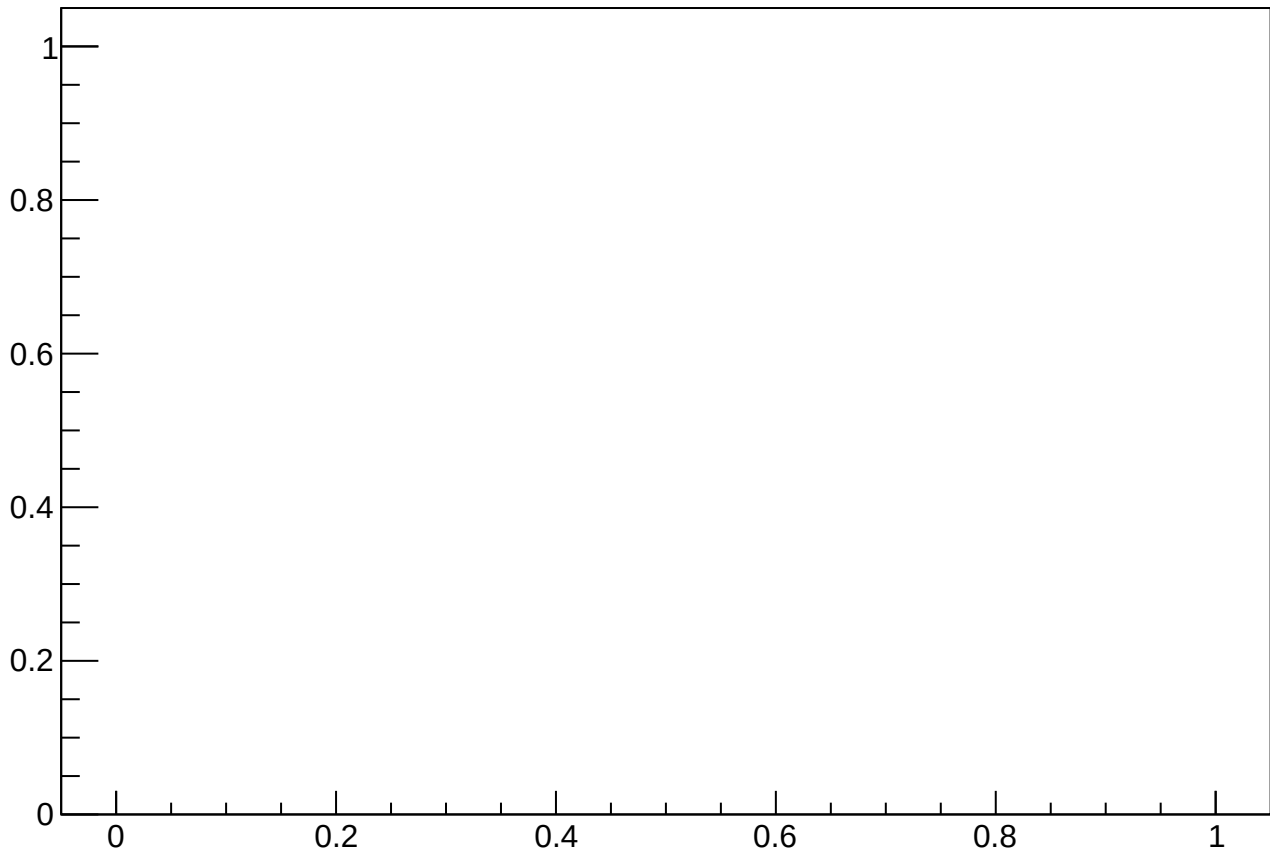
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

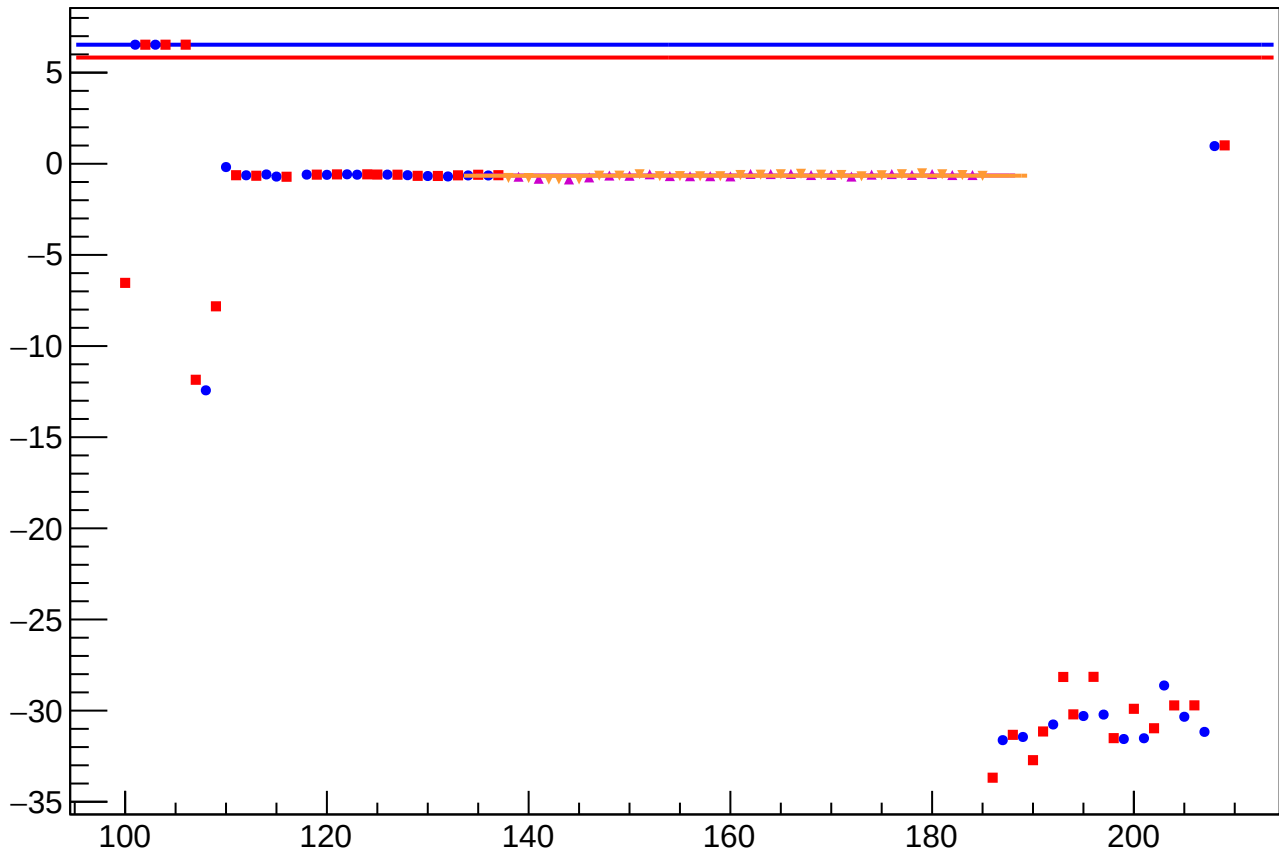
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 129945926099.8/27

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755963809870240.9/31

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

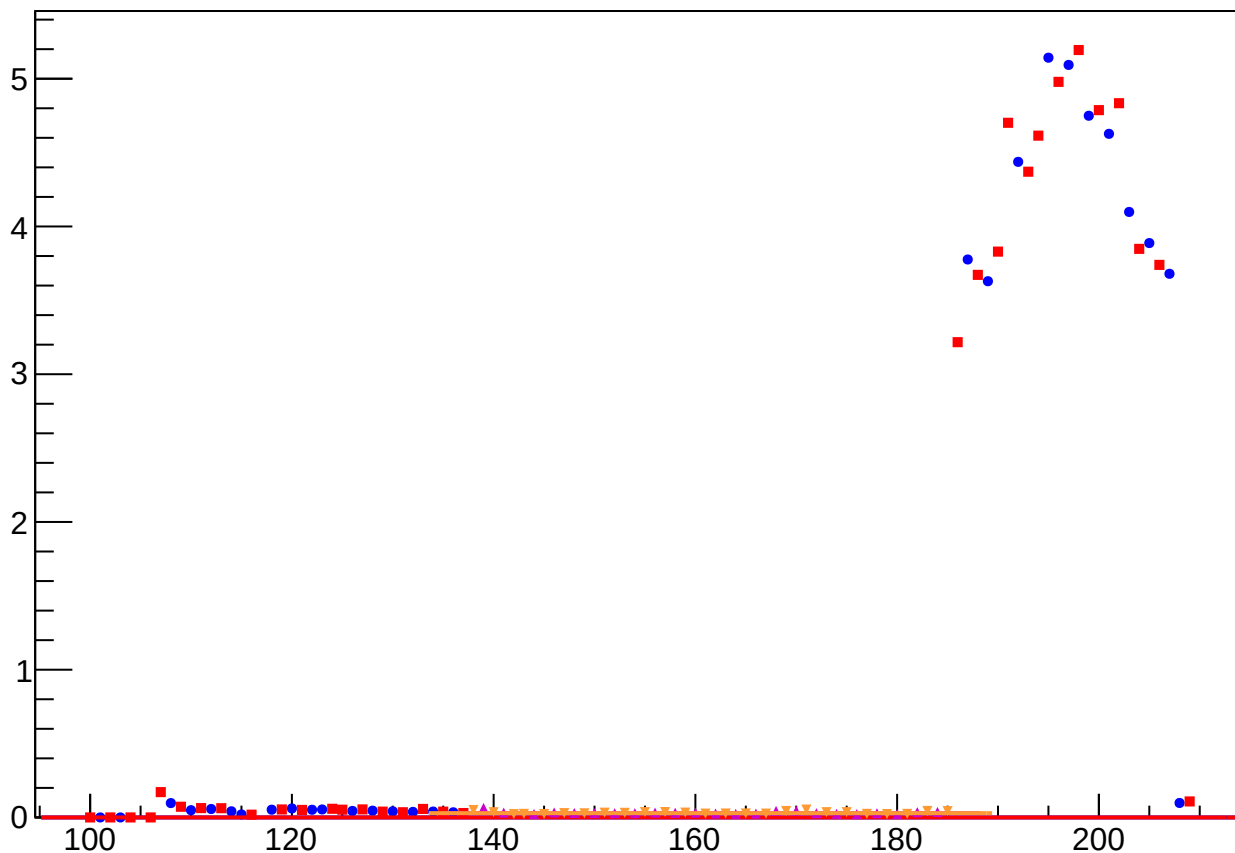
Right: 6.155+/-0.000 χ^2/NDF : 776097668713003.8/47

In: 6.530+/-0.000 χ^2/NDF : 964063483214.0/50

Out: 5.826+/-0.000 χ^2/NDF : 756674826043245.2/50

All: 6.153+/-0.000 χ^2/NDF : 77763109888641.0/97

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23912627.1/27

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 26263553.1/31

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

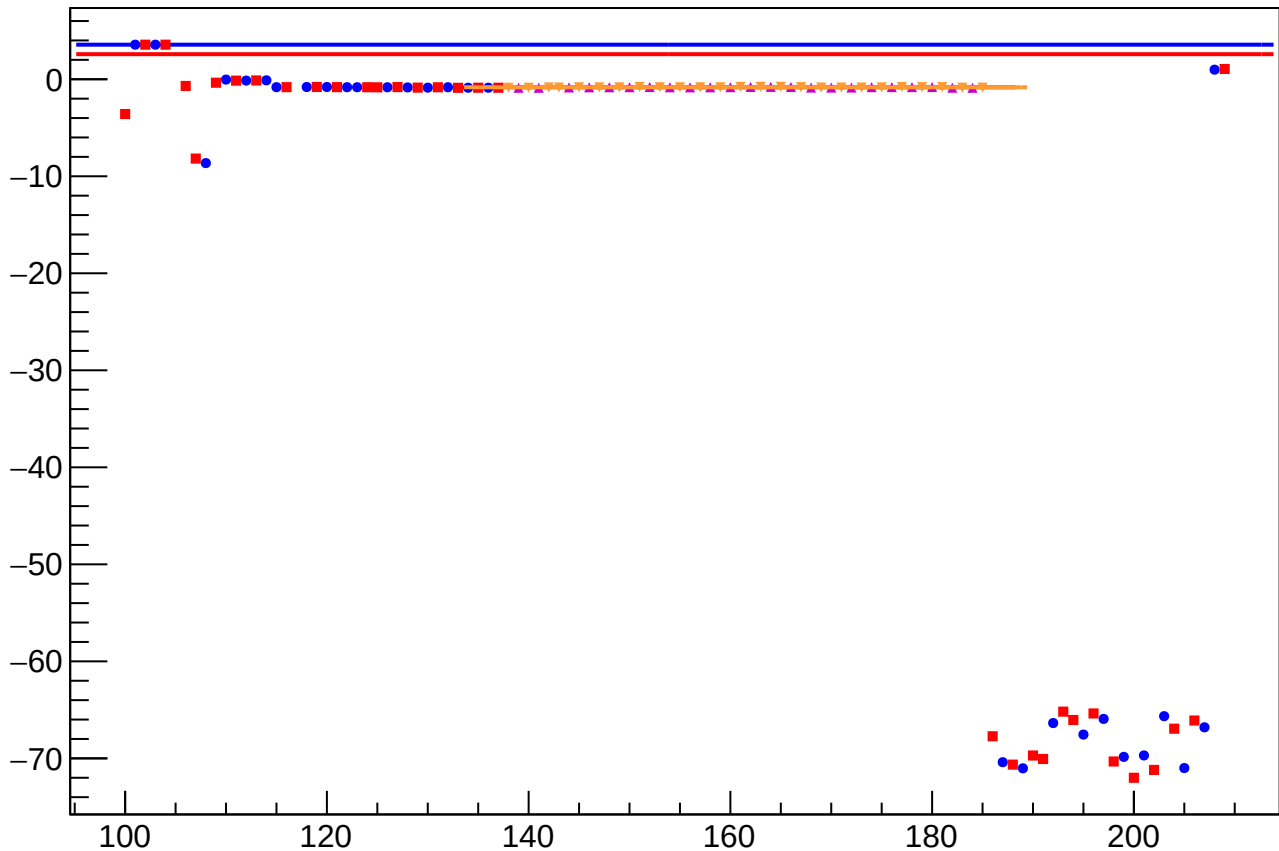
Right: 0.000+/-0.000 χ^2/NDF : 50176429.7/59

In: 0.000+/-0.000 χ^2/NDF :52090269.5/50

Out: 0.000+/-0.000 χ^2/NDF :56231435.5/56

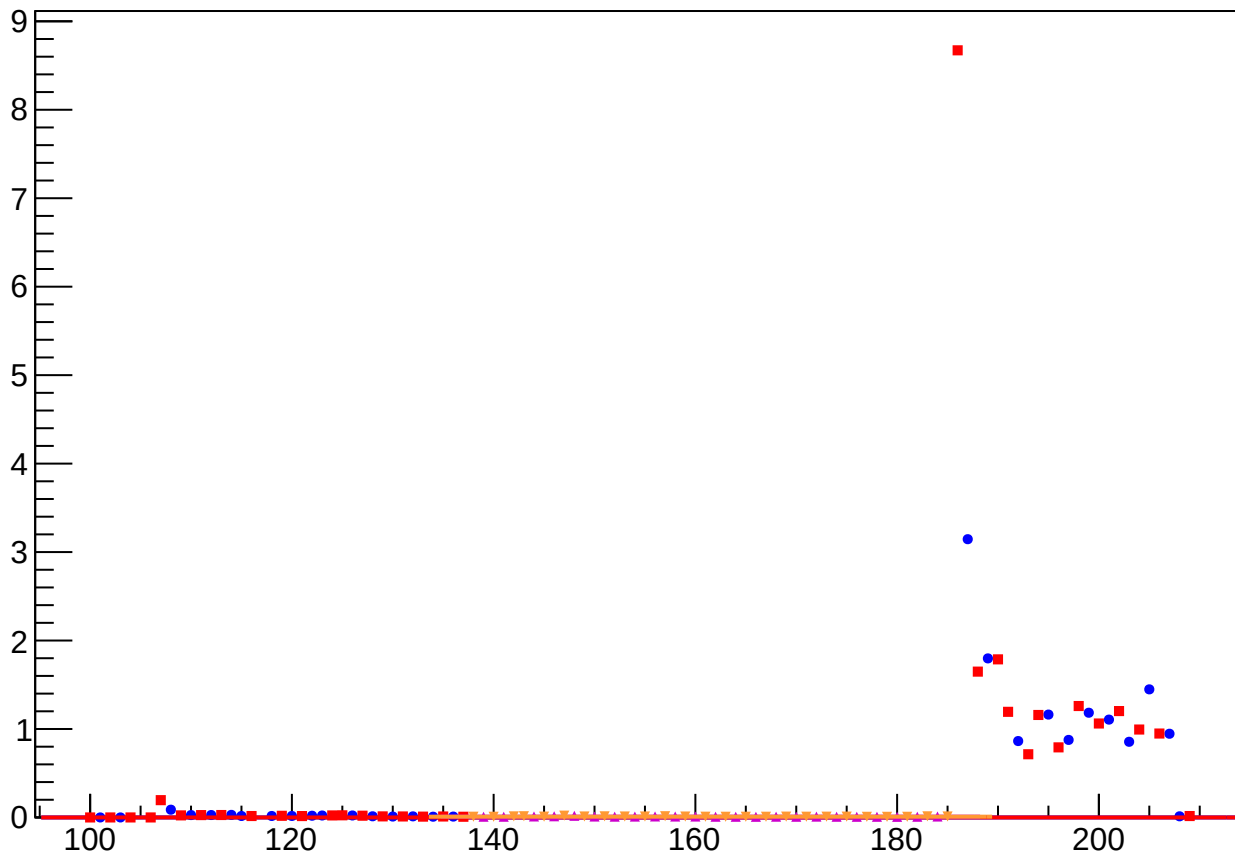
All: 0.000+/-0.000 χ^2/NDF : 108322133.1/107

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 525140431921.2/27	Left: -0.827+/-0.000	χ^2/NDF : 344237775.5/47
Left Out: -0.827+/-0.000	χ^2/NDF : 170052639.9/24	Right: 3.040+/-0.000	χ^2/NDF : 1382329894816083.5
Right Out: 2.583+/-0.000	χ^2/NDF : 1253536395976570.2/31	In: 3.560+/-0.000	χ^2/NDF : 4205651963644.4/50
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255767278729933.5
		All: 3.038+/-0.000	χ^2/NDF : 13880543949893.5

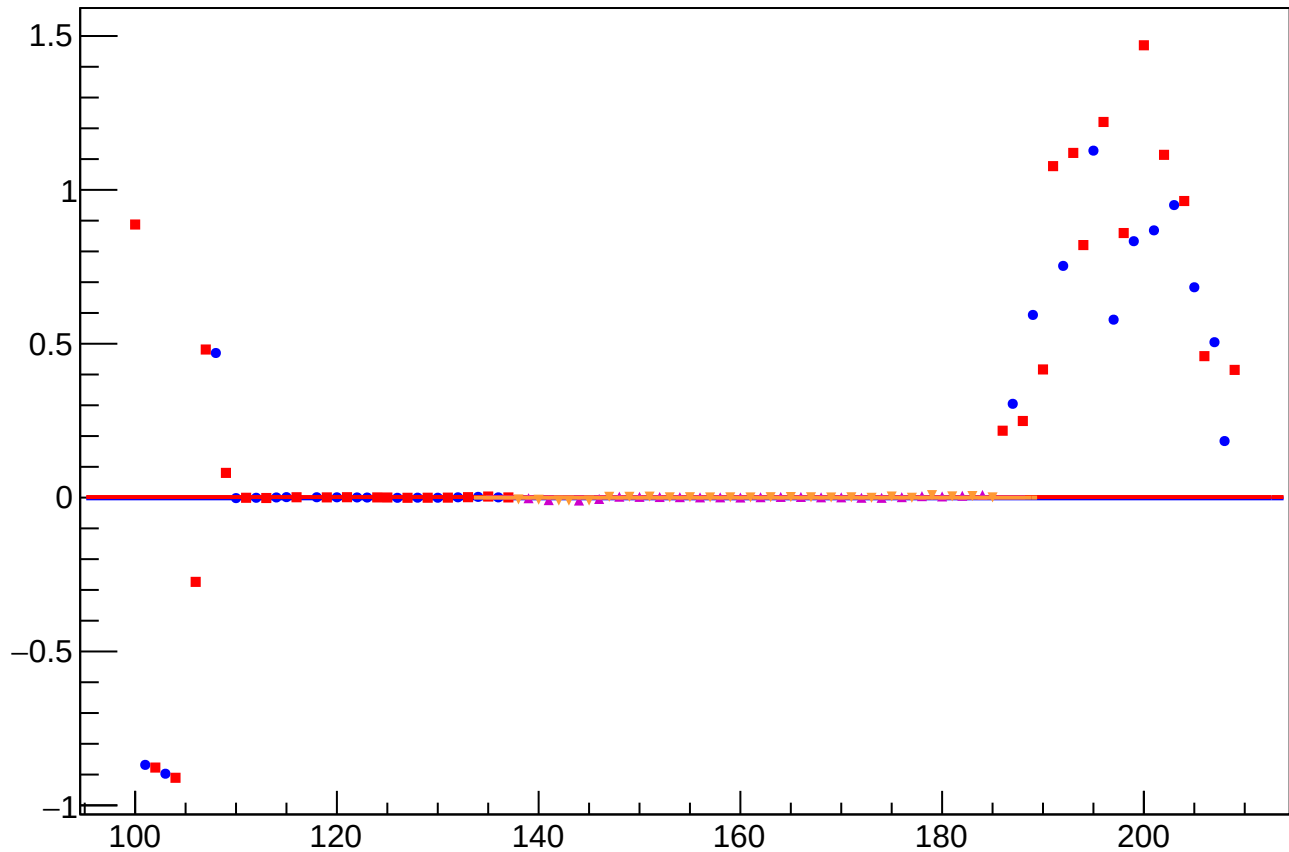
yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22119527.6/27
Left Out: 0.009+/-0.000 χ^2/NDF : 1455379.3/24
Right Out: 0.000+/-0.000 χ^2/NDF : 24332926.5/31
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 : 46452730.6/59
In: 0.000+/-0.000 χ^2/NDF : 51915673.4/50
Out: 0.000+/-0.000 χ^2/NDF : 55850074.6/56
All: 0.000+/-0.000 χ^2/NDF : 107766530.7/107

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796521572.0/27

Left: 0.000+/-0.000 χ^2/NDF : 254489625.0/47

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right: -0.000+/-0.000 χ^2/NDF : 12854359169.6/59

Right Out: 0.002+/-0.000

χ^2/NDF : 3043689852.4/31

In: -0.000+/-0.000 χ^2/NDF : 9909428245.9/50

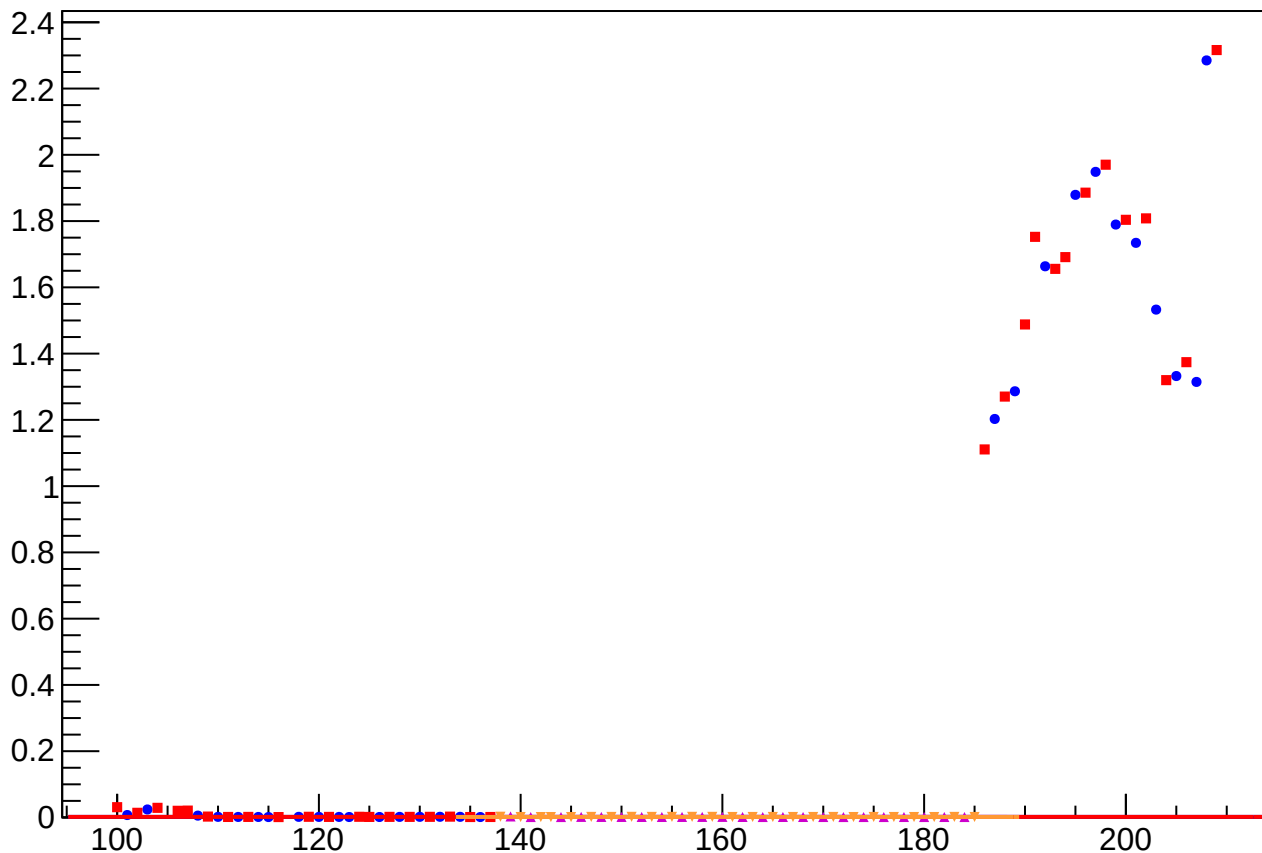
Out: 0.000+/-0.000 χ^2/NDF : 3199928072.9/56

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

All: 0.000+/-0.000 χ^2/NDF : 13109727826.8/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 16953378.3/27

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 19915040.6/31

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

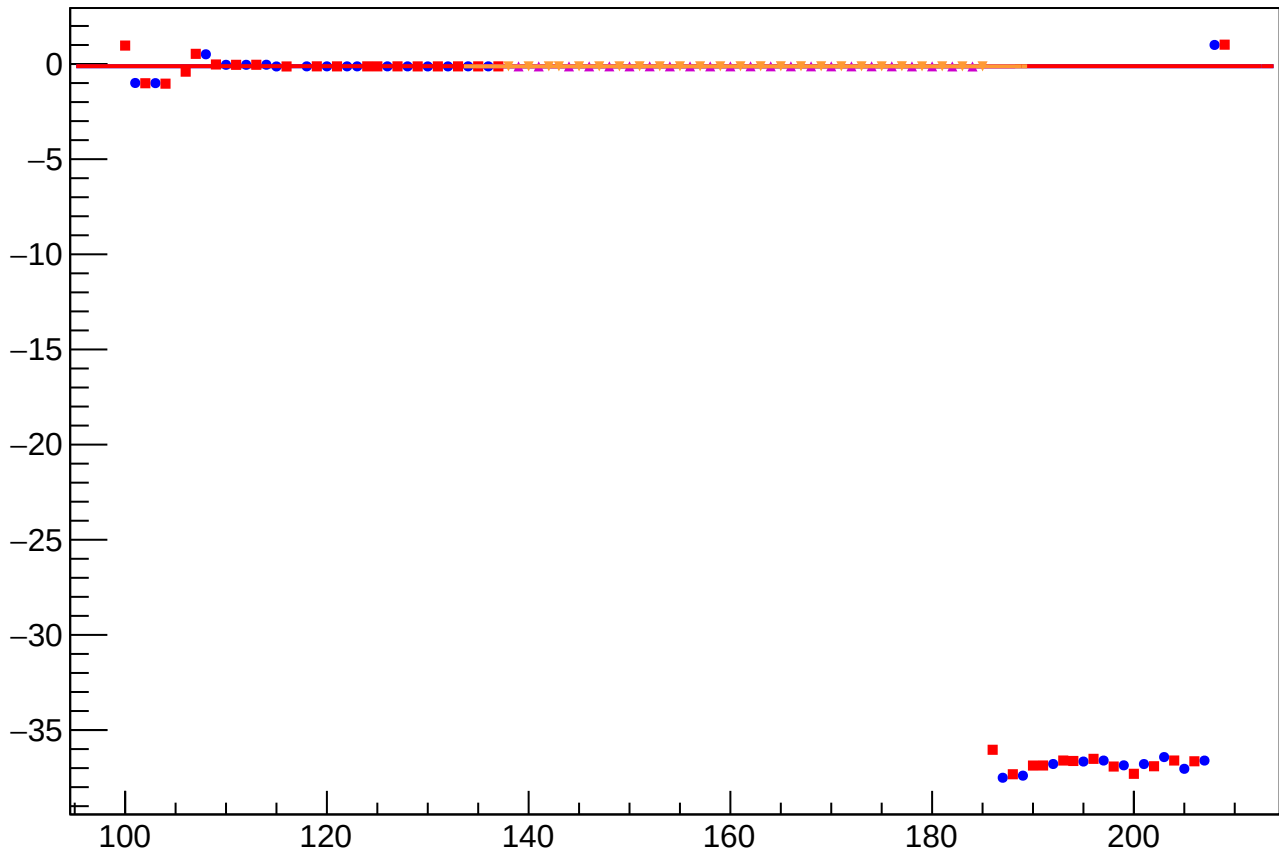
Right: 0.002+/-0.000 χ^2/NDF : 36876398.7/59

In: 0.002+/-0.000 χ^2/NDF :17665969.6/50

Out: 0.002+/-0.000 χ^2/NDF :20591003.3/56

All: 0.002+/-0.000 χ^2/NDF : 38257603.4/107

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.118+/-0.000 χ^2/NDF : 72996118780.6/27

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.113+/-0.000 χ^2/NDF : 76246180247.7/31

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

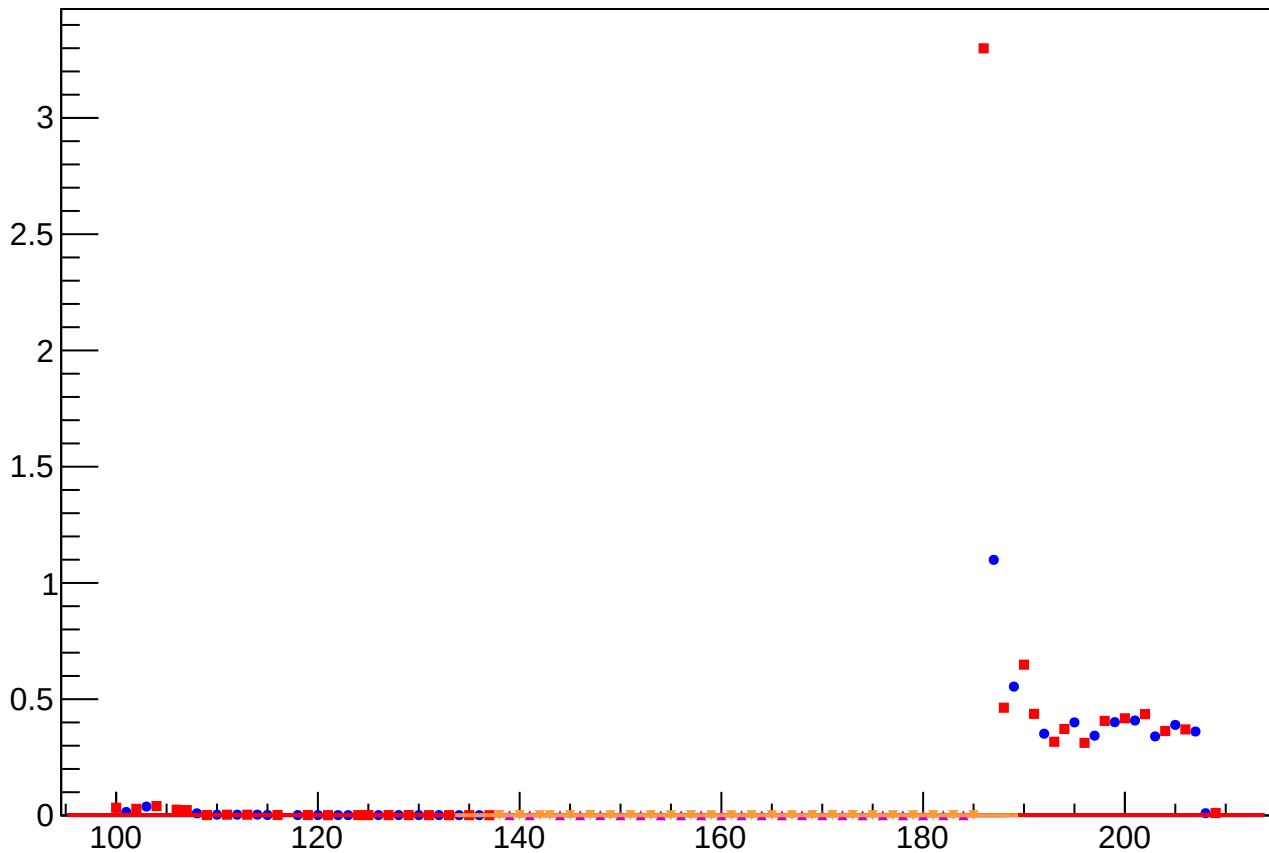
Right: -0.115+/-0.000 χ^2/NDF : 149265401636.6/59

In: -0.121+/-0.000 χ^2/NDF : 73067475665.4/50

Out: -0.120+/-0.000 χ^2/NDF : 76425247860.9/56

All: -0.120+/-0.000 χ^2/NDF : 149493618309.9

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 16935131.0/27

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 19514573.1/31

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

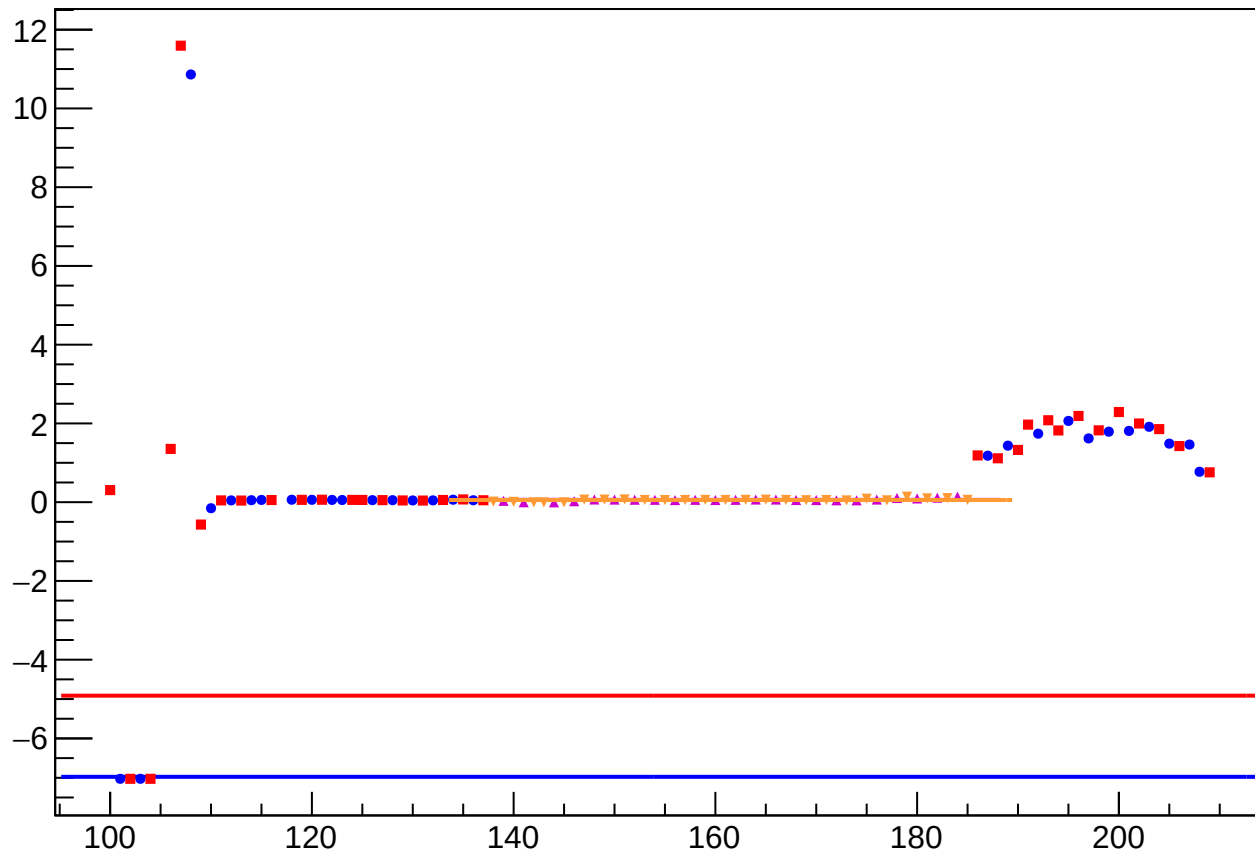
Right: 0.002+/-0.000 χ^2/NDF : 36449705.8/59

In: 0.001+/-0.000 χ^2/NDF :19167963.8/50

Out: 0.001+/-0.000 χ^2/NDF :22182005.6/56

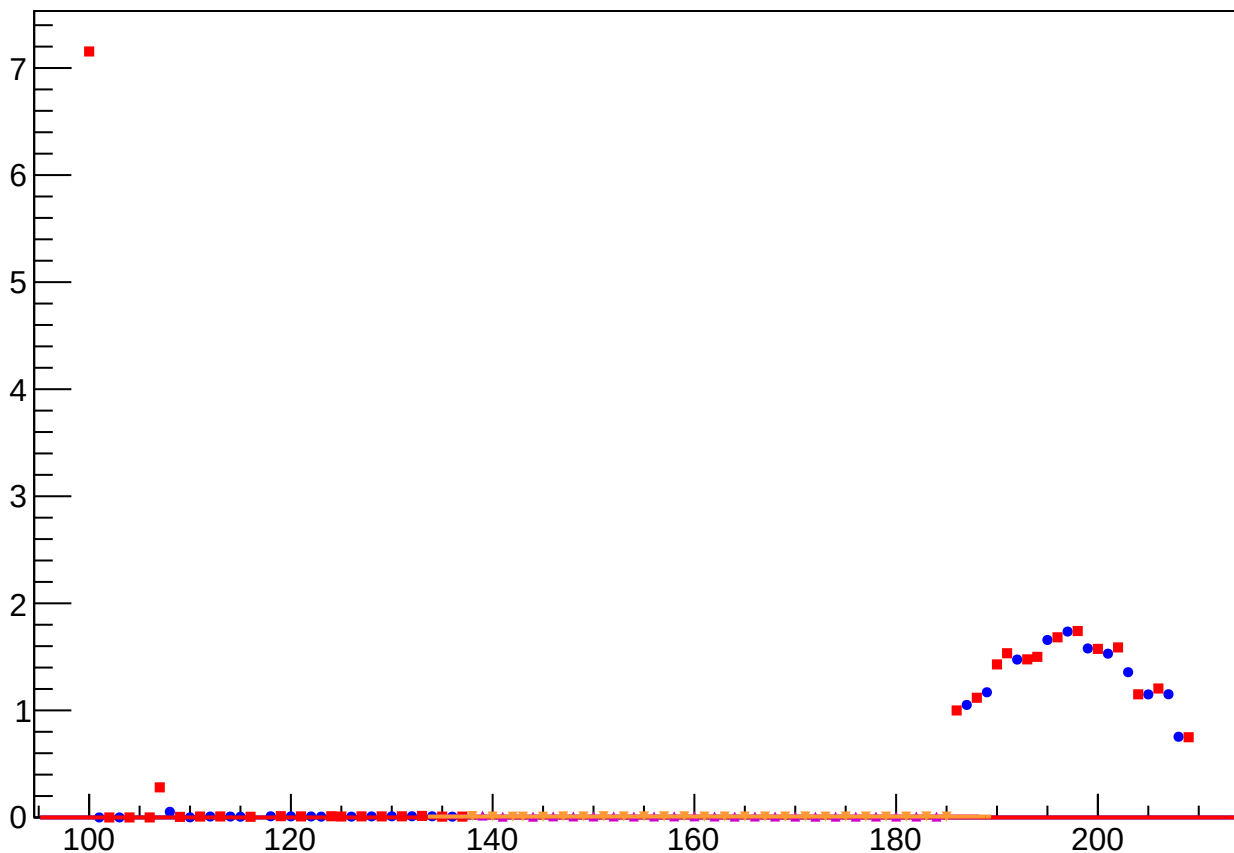
All: 0.001+/-0.000 χ^2/NDF : 41352016.8/107

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762782450478.5/27$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348755090574.8/31$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435817007390.5/47$
 Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423872259.5/47$
 Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430303739379808.3/50$
 In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605307486417.5/50$
 Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175440866675.8/50$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23284740.7/27

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 25676921.9/31

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

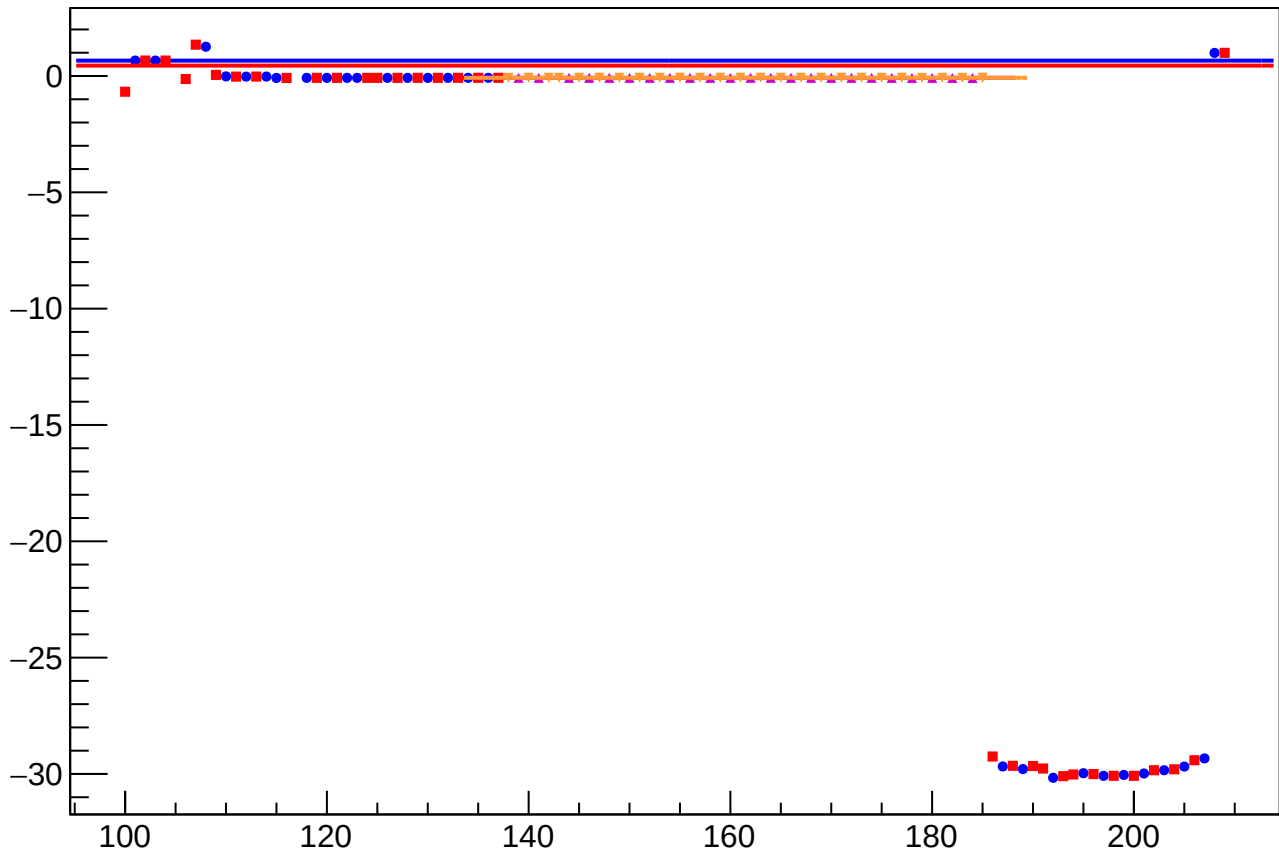
Right: 0.000+/-0.000 χ^2/NDF : 48961969.1/59

In: 0.000+/-0.000 χ^2/NDF : 50920965.8/50

Out: 0.000+/-0.000 χ^2/NDF : 54704457.3/56

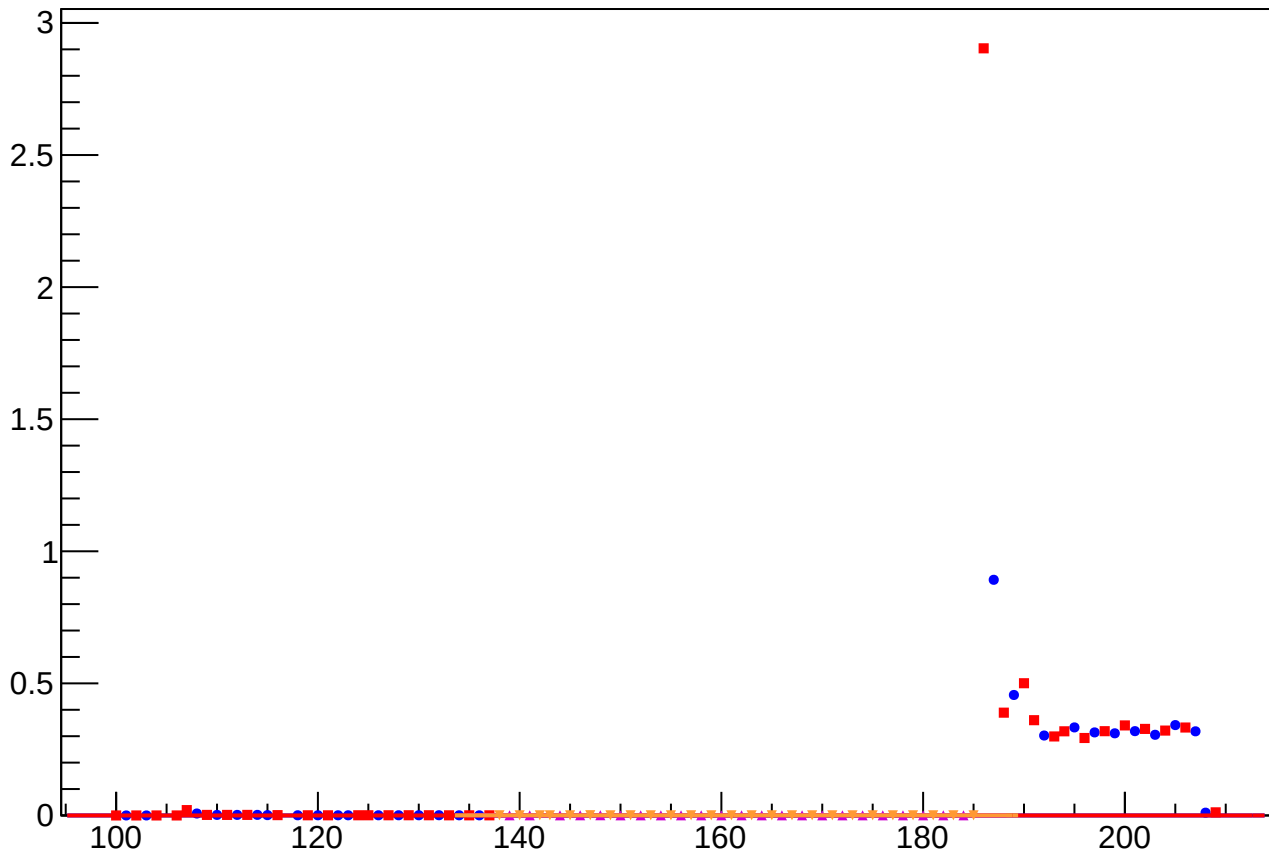
All: 0.000+/-0.000 χ^2/NDF : 105625913.0/107

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5646341869013.6/27	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 : 474055786309005.8
Right Out: 0.446+/-0.000	χ^2/NDF : 405480322420673.4/31	In: 0.647+/-0.000	χ^2/NDF : 33906326155249.8/50
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420674944351953.6/5
		All: 0.537+/-0.000	χ^2/NDF : 51610585872228

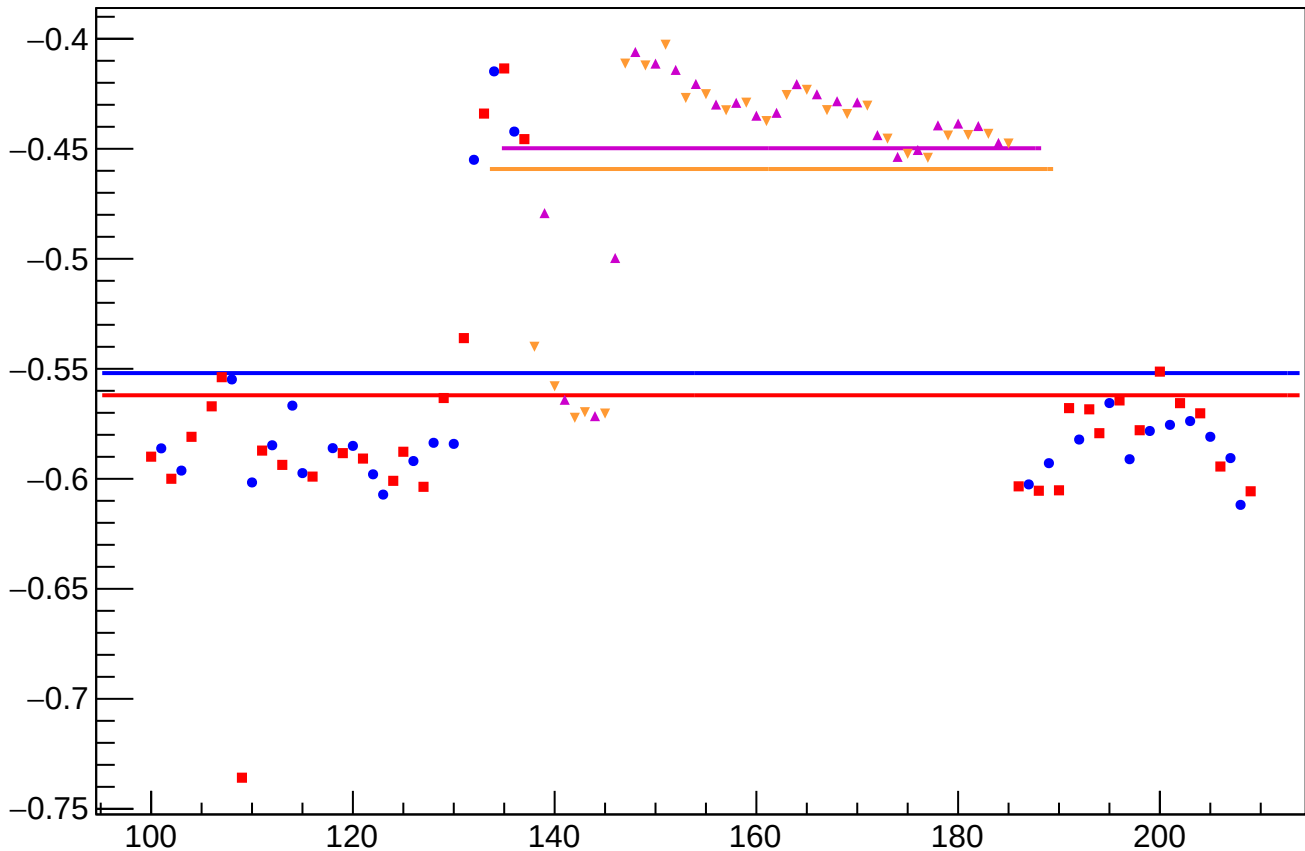
yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 24715936.0/27
 Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24
 Right Out: 0.000+/-0.000 χ^2/NDF : 26261125.9/31
 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 : 50977068.4/59
 In: 0.000+/-0.000 χ^2/NDF :55691733.8/50
 Out: 0.000+/-0.000 χ^2/NDF :58972318.7/56
 All: 0.000+/-0.000 χ^2/NDF : 114664452.5/107

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.552+/-0.000 χ^2/NDF : 49442449.1/27

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.562+/-0.000 χ^2/NDF : 66220550.0/31

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

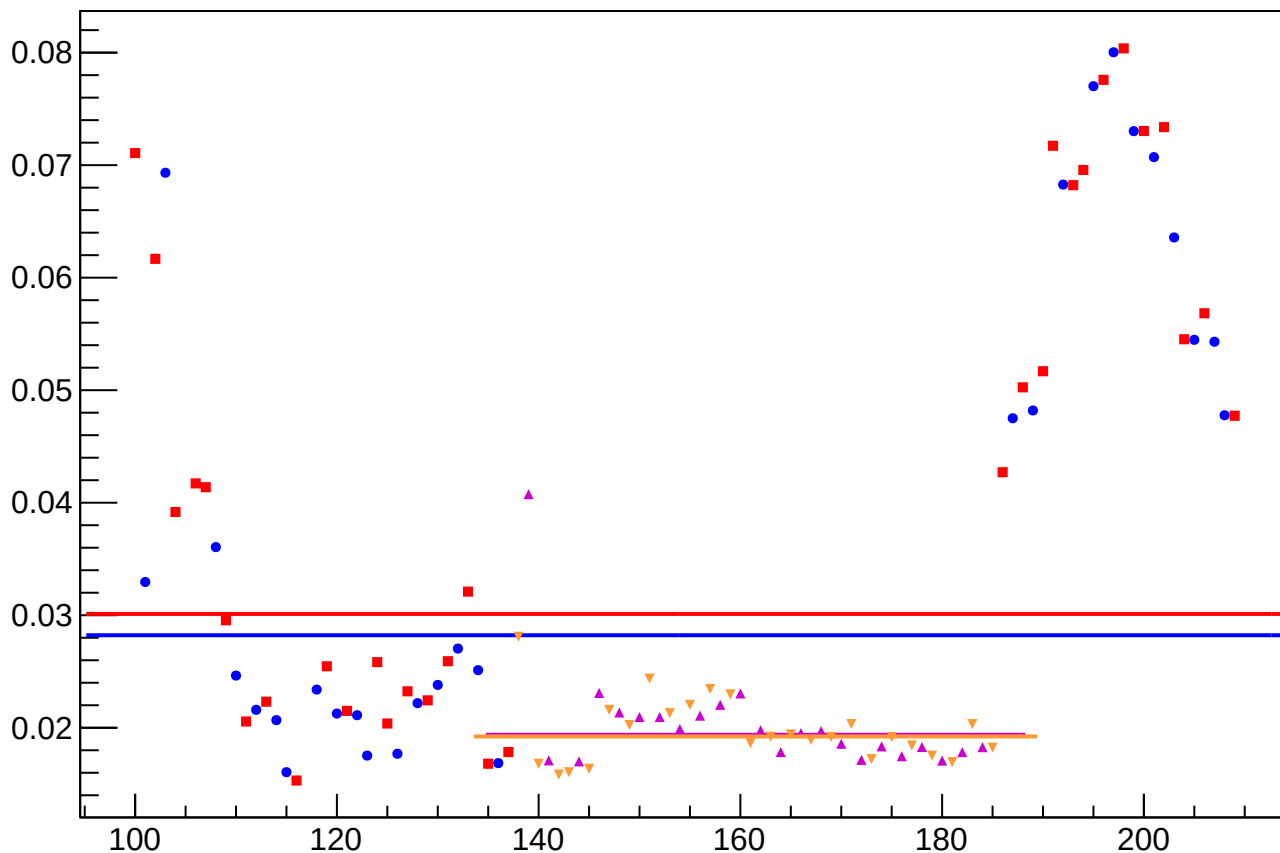
Right: -0.557+/-0.000 χ^2/NDF : 116285640.8/59

In: -0.475+/-0.000 χ^2/NDF : 222575338.3/50

Out: -0.483+/-0.000 χ^2/NDF : 278743770.6/56

All: -0.479+/-0.000 χ^2/NDF : 502921281.3/10

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 6415856.3/27

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.030+/-0.000 χ^2/NDF : 6642204.5/31

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

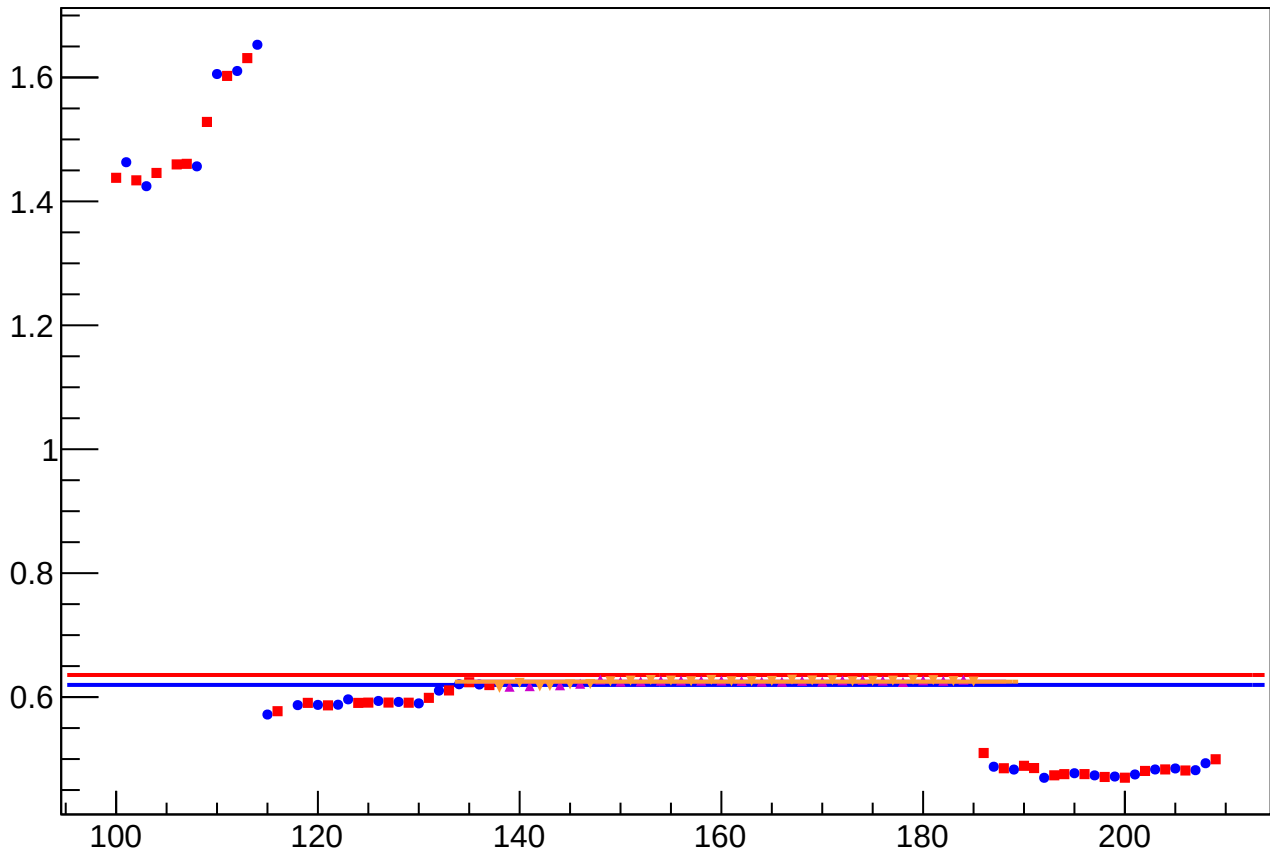
Right: 0.029+/-0.000 χ^2/NDF : 13102033.4/59

In: 0.022+/-0.000 χ^2/NDF : 8524855.5/50

Out: 0.022+/-0.000 χ^2/NDF : 9357663.8/56

All: 0.022+/-0.000 χ^2/NDF : 17884151.6/107

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.620+/-0.000 χ^2/NDF : 5075128173.9/27

Left Out: 0.625+/-0.000 χ^2/NDF :1442225.6/24

Right Out: 0.636+/-0.000 χ^2/NDF : 6115187531.4/31

Left In: 0.625+/-0.000 χ^2/NDF :1135039.4/22

Left: 0.625+/-0.000 χ^2/NDF : 2577573.3/47

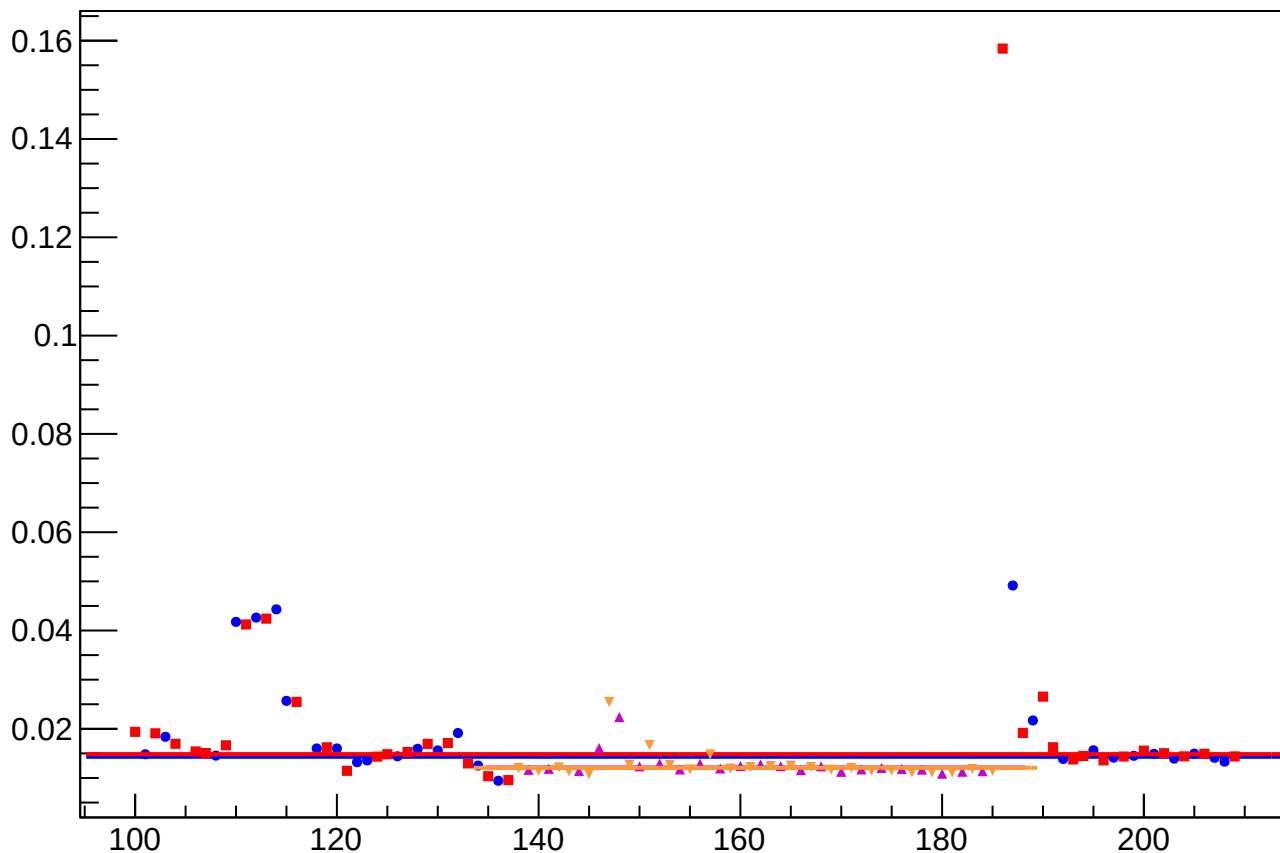
Right: 0.628+/-0.000 χ^2/NDF : 11198423994.4/59

In: 0.623+/-0.000 χ^2/NDF :5077355423.5/50

Out: 0.629+/-0.000 χ^2/NDF :6121455343.3/56

All: 0.626+/-0.000 χ^2/NDF : 11201650924.4/111

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1652688.8/27

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2075393.0/31

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

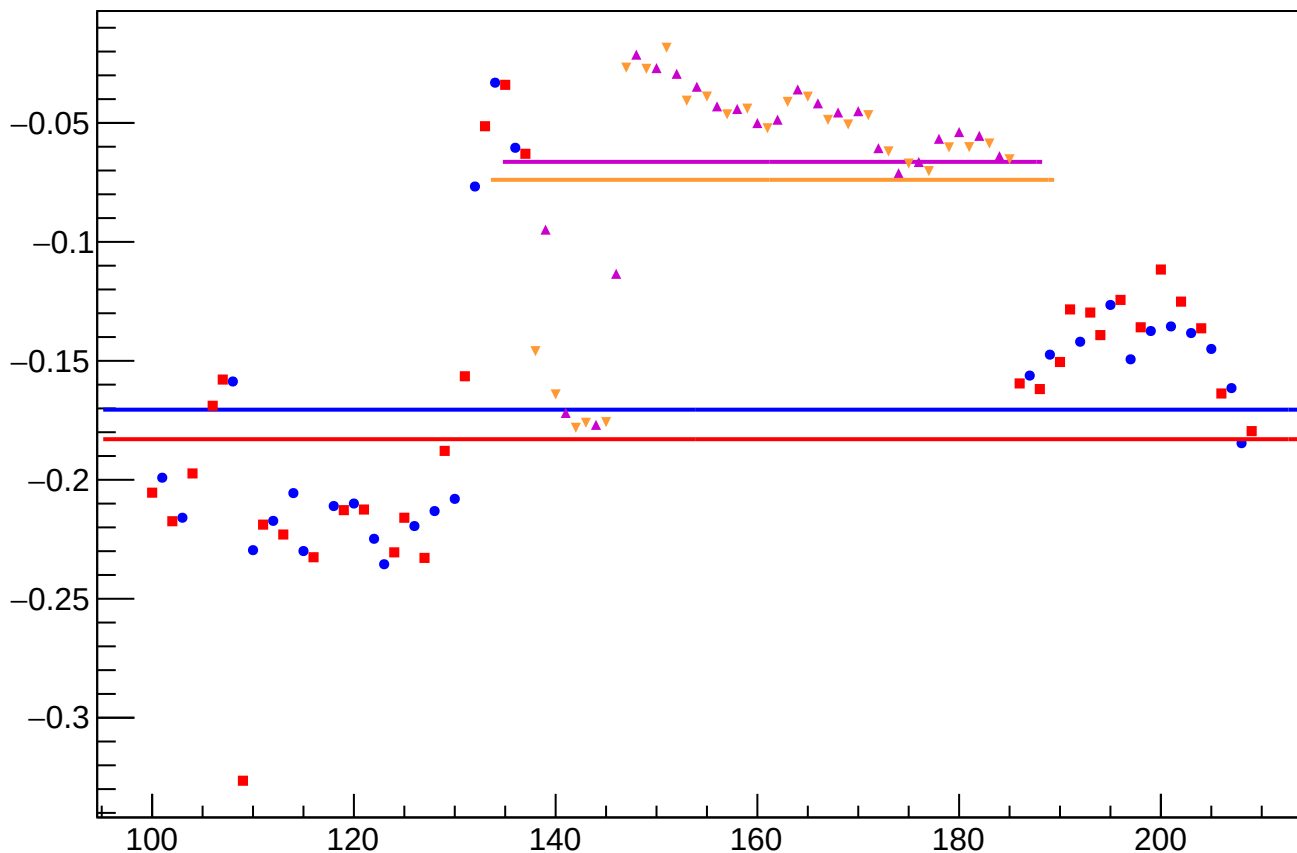
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3747201.5/59

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2524774.0/50

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3379067.9/56

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5906446.1/107

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.171+/-0.000 χ^2/NDF : 68452692.6/27

Left Out: -0.074+/-0.000 χ^2/NDF :107858881.3/24

Right Out: -0.183+/-0.000 χ^2/NDF : 85895011.6/31

Left In: -0.066+/-0.000 χ^2/NDF :76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

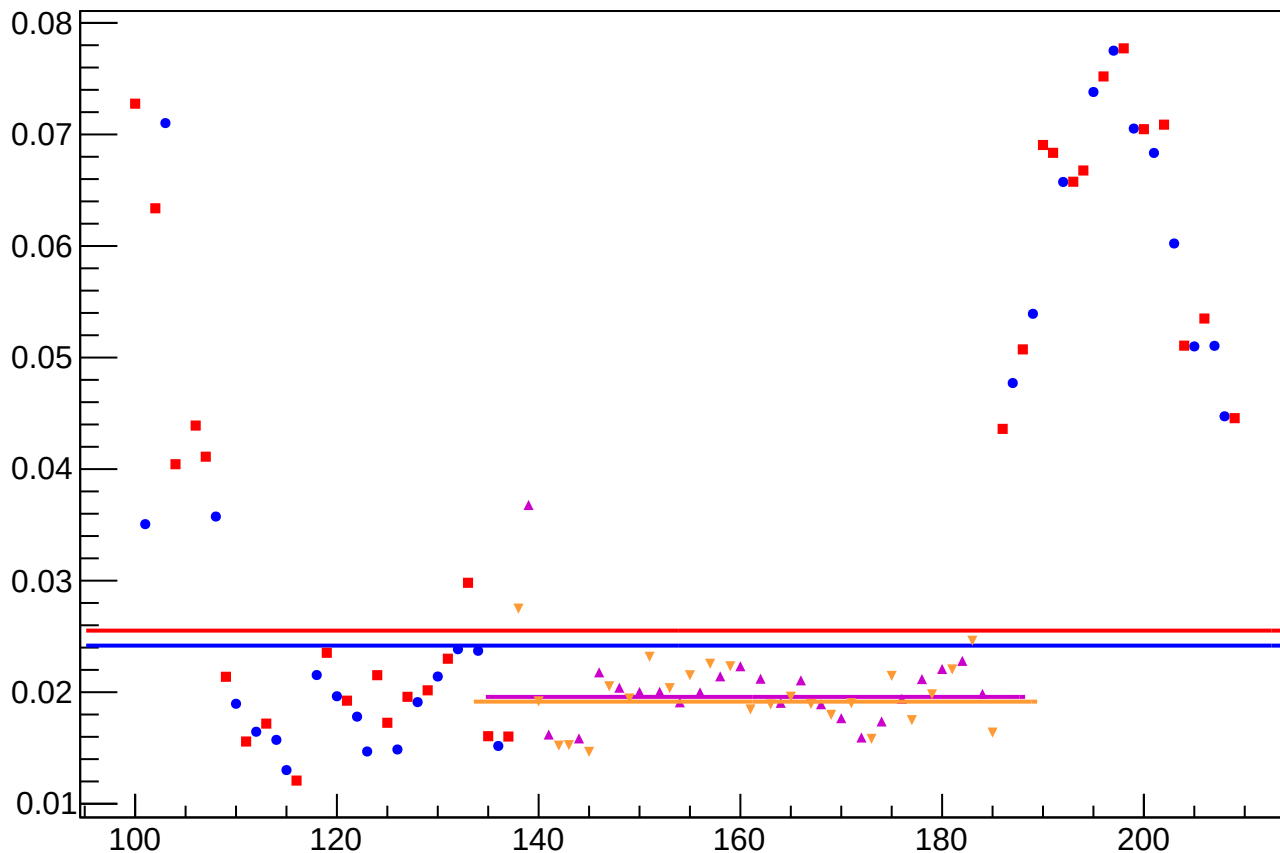
Right: -0.177+/-0.000 χ^2/NDF : 155572139.3/59

In: -0.097+/-0.000 χ^2/NDF :266121014.2/50

Out: -0.104+/-0.000 χ^2/NDF :329699291.8/56

All: -0.101+/-0.000 χ^2/NDF : 597056265.2/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 7486466.9/27

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:641027.3/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 8092680.3/31

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF:651328.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1299461.3/47

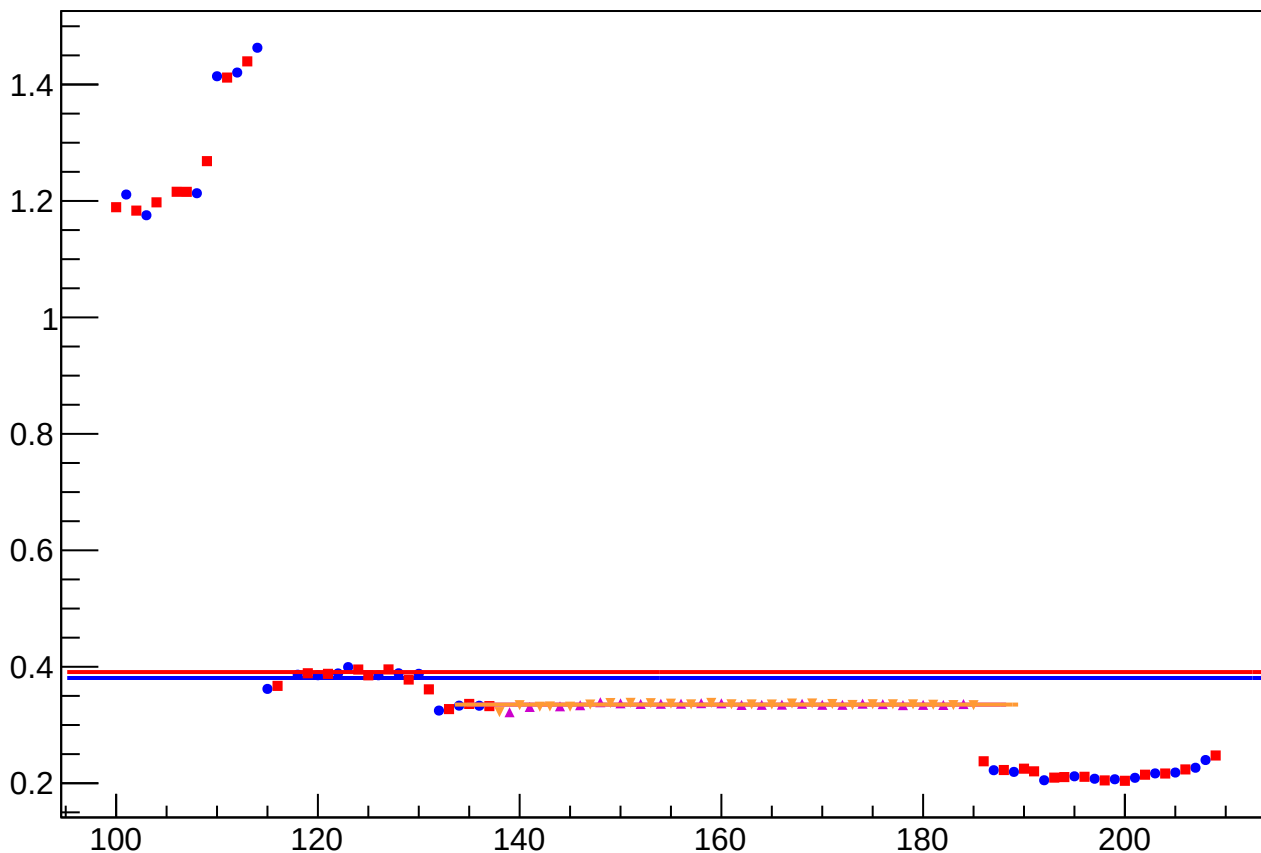
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 15607904.1/59

In: 0.021 $\pm$ 0.000 χ^2 /NDF:8610701.8/50

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:9661286.8/56

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 18272043.4/107

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.381+/-0.000 χ^2/NDF : 7494898293.9/27

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.391+/-0.000 χ^2/NDF : 8610740944.9/31

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

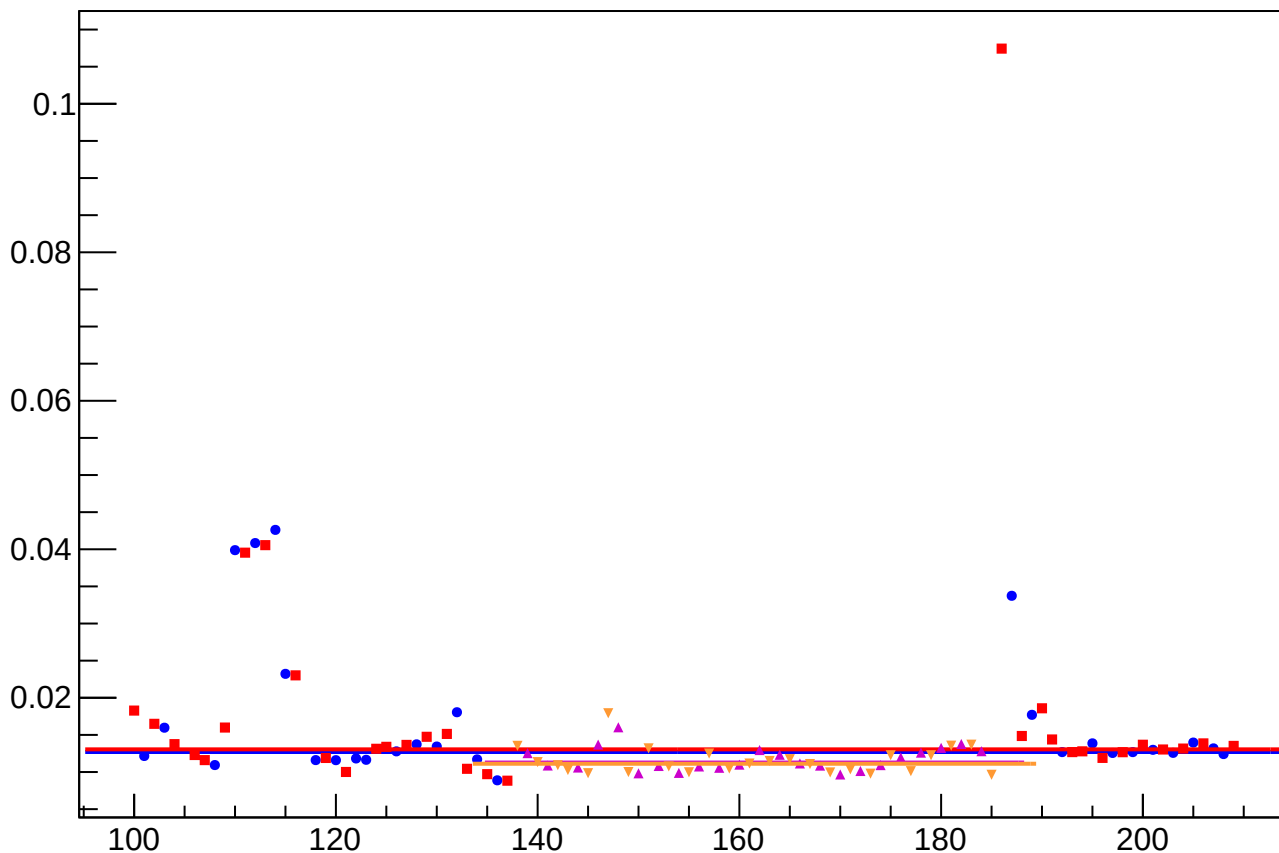
Right: 0.386+/-0.000 χ^2/NDF : 16109840497.7/59

In: 0.352+/-0.000 χ^2/NDF :7600096683.1/50

Out: 0.356+/-0.000 χ^2/NDF :8773632958.9/56

All: 0.354+/-0.000 χ^2/NDF : 16374805046.8/112

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1527100.0/27

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1942035.1/31

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

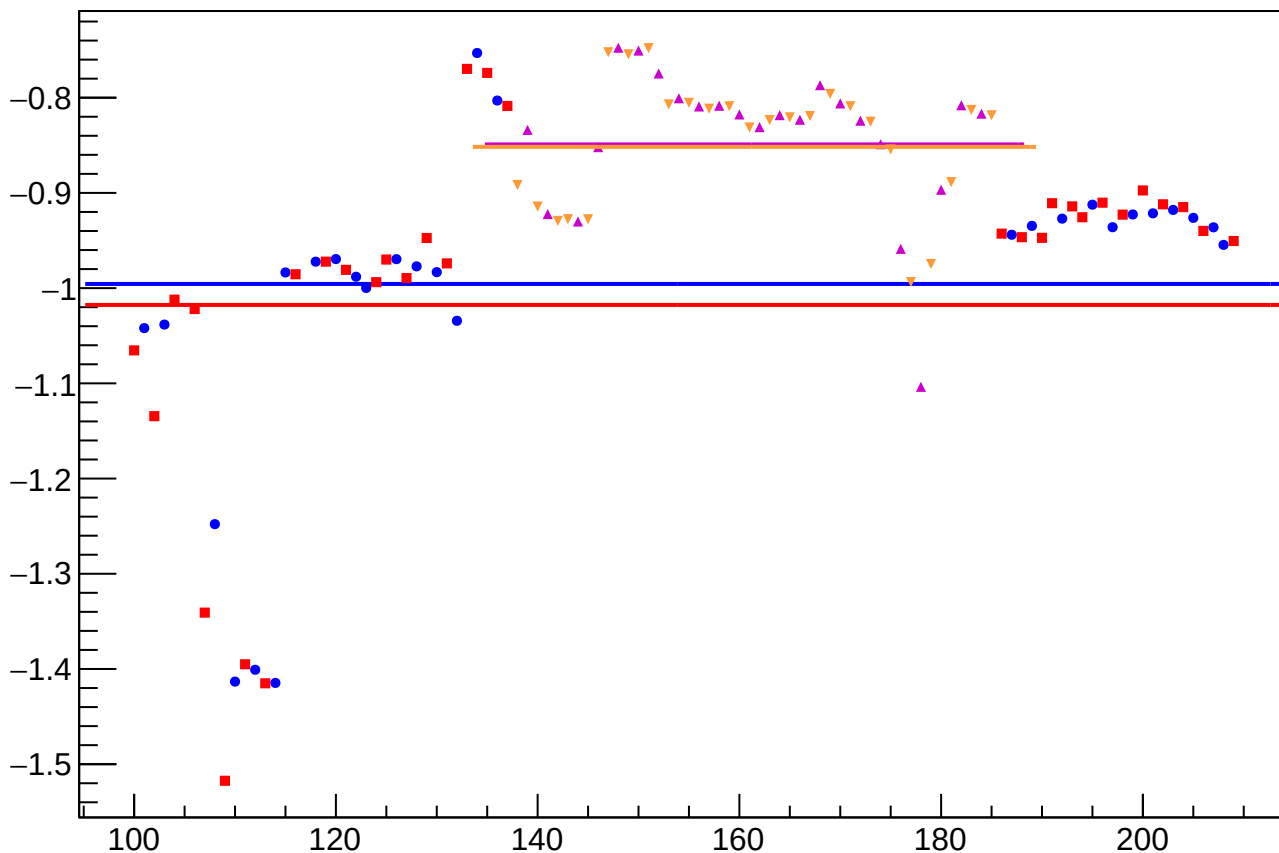
Right: 0.013+/-0.000 χ^2/NDF : 3479310.5/59

In: 0.012+/-0.000 χ^2/NDF : 2230958.4/50

Out: 0.012+/-0.000 χ^2/NDF : 2939403.8/56

All: 0.012+/-0.000 χ^2/NDF : 5170382.6/107

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.996+/-0.000 χ^2/NDF : 403814201.8/27

Left Out: -0.852+/-0.000 χ^2/NDF : 189276591.7/24

Right Out: -1.018+/-0.000 χ^2/NDF : 558293313.3/31

Left In: -0.849+/-0.000 χ^2/NDF : 256438306.8/22

Left: -0.850+/-0.000 χ^2/NDF : 445849768.4/47

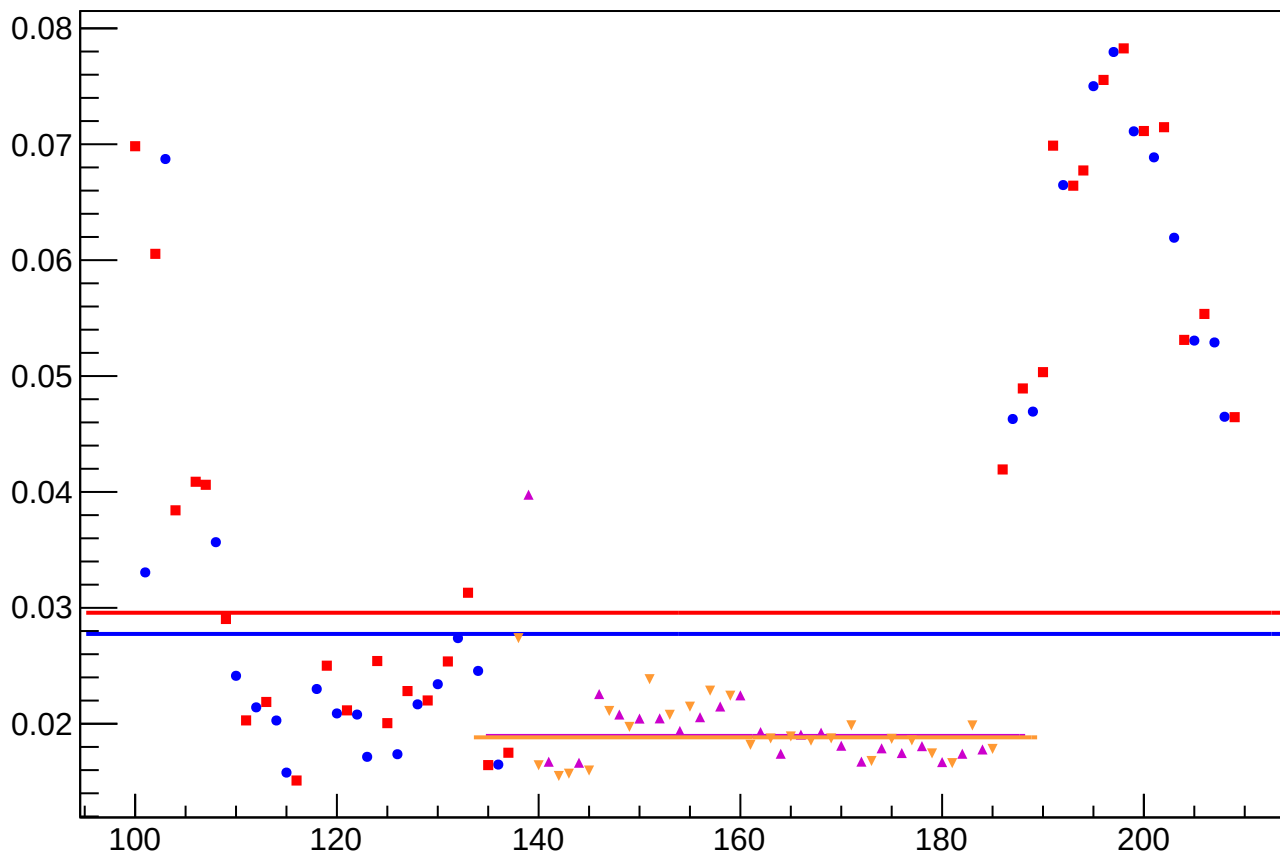
Right: -1.007+/-0.000 χ^2/NDF : 965200003.7/59

In: -0.885+/-0.000 χ^2/NDF : 867492228.9/50

Out: -0.890+/-0.000 χ^2/NDF : 1015019600.8/56

All: -0.888+/-0.000 χ^2/NDF : 1883141377.9/1

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.000 χ^2 /NDF: 6373846.8/27

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490084.5/24

Right Out: 0.030 $\pm$ 0.000 χ^2 /NDF: 6572808.0/31

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

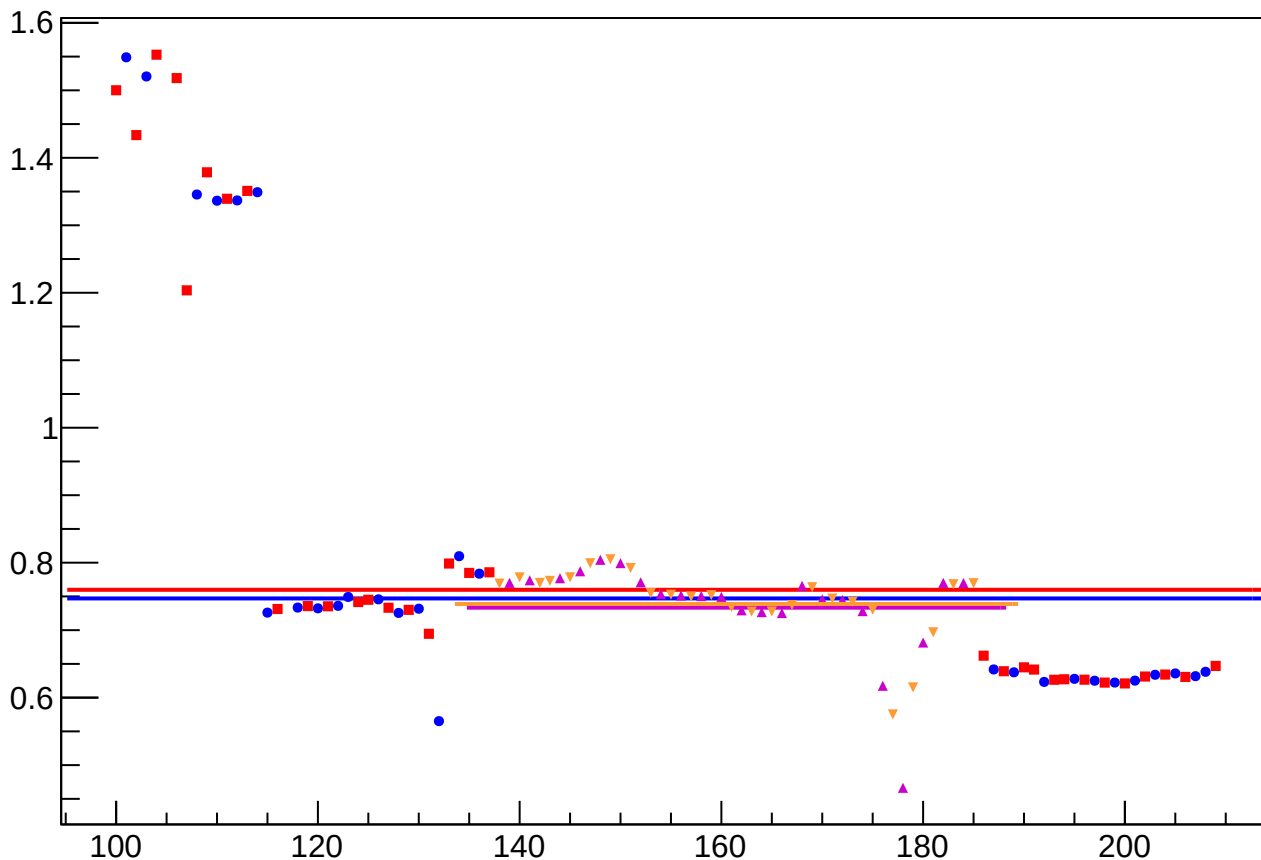
Right: 0.029 $\pm$ 0.000 χ^2 /NDF: 12989150.6/59

In: 0.021 $\pm$ 0.000 χ^2 /NDF:8513341.7/50

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:9305476.3/56

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 17820856.2/107

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.747 $\pm$ 0.000 χ^2 /NDF: 3481182963.9/27

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333086309.0/24

Right Out: 0.760 $\pm$ 0.000 χ^2 /NDF: 3806718310.2/31

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

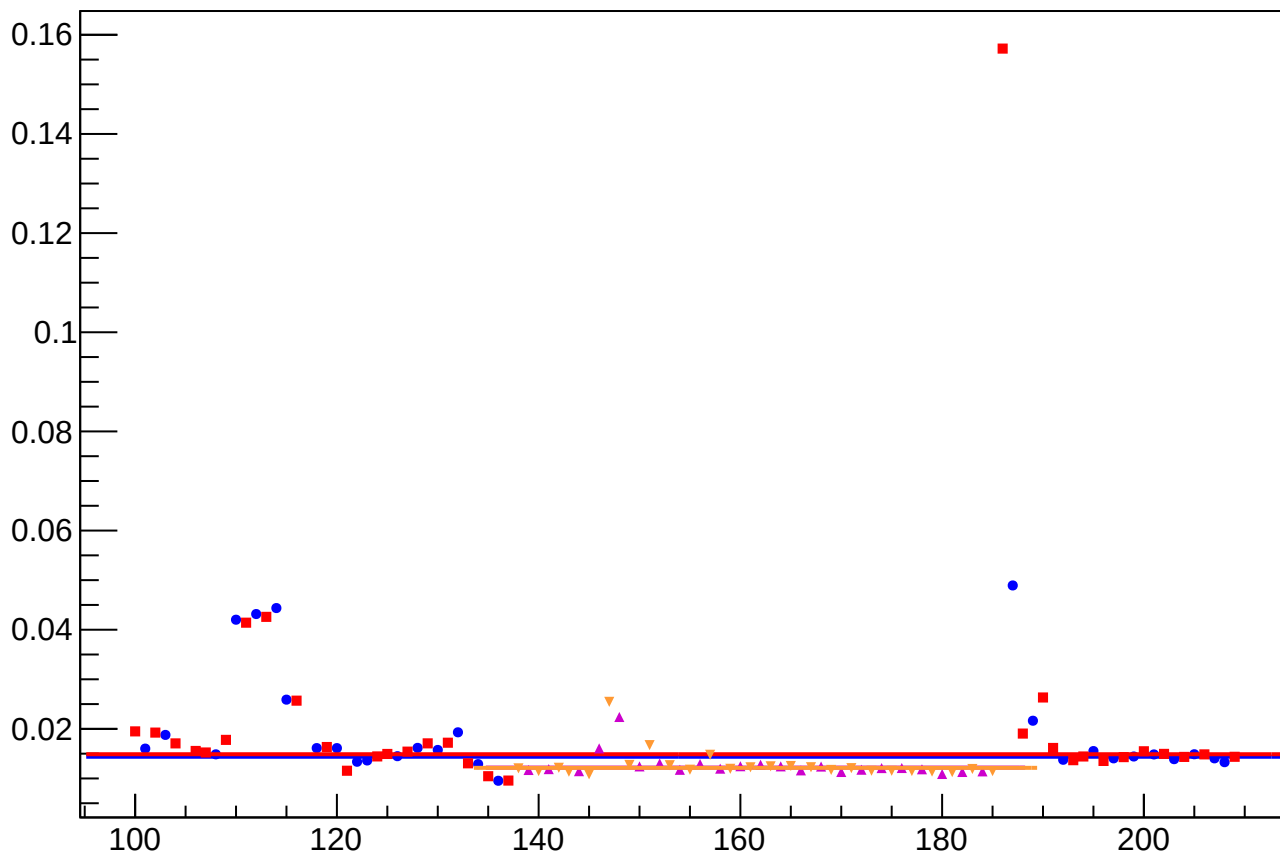
Right: 0.753 $\pm$ 0.000 χ^2 /NDF: 7293035767.7/59

In: 0.738 $\pm$ 0.000 χ^2 /NDF:4058945183.4/50

Out: 0.746 $\pm$ 0.000 χ^2 /NDF:4157989823.7/56

All: 0.742 $\pm$ 0.000 χ^2 /NDF: 8222474198.8/10

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1655373.0/27

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2080066.7/31

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

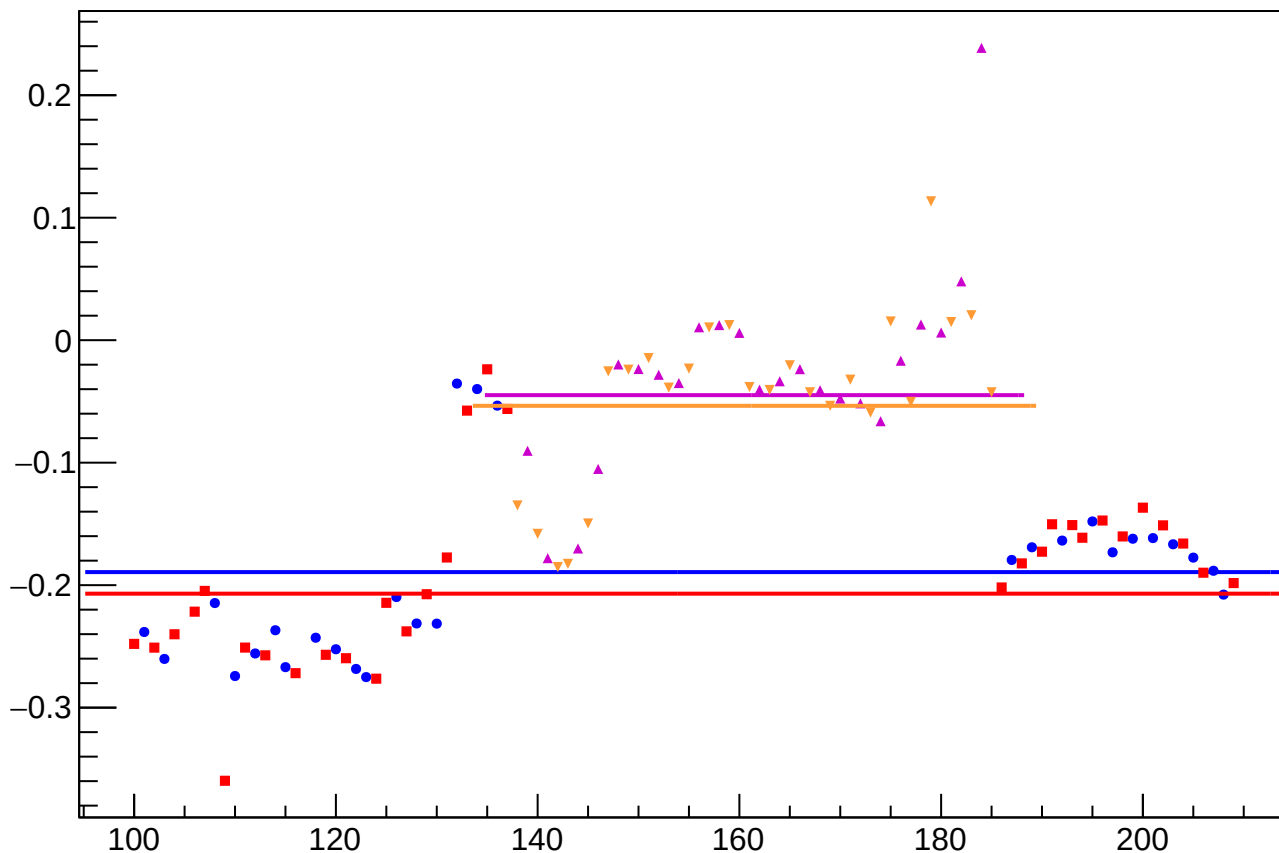
Right: 0.015+/-0.000 χ^2/NDF : 3751473.4/59

In: 0.013+/-0.000 χ^2/NDF : 2521545.4/50

Out: 0.013+/-0.000 χ^2/NDF : 3339524.3/56

All: 0.013+/-0.000 χ^2/NDF : 5863640.0/107

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.189+/-0.000 χ^2/NDF : 106978323.3/27

Left Out: -0.054+/-0.000 χ^2/NDF : 167879648.0/24

Right Out: -0.207+/-0.000 χ^2/NDF : 113846689.3/31

Left In: -0.045+/-0.000 χ^2/NDF : 127324000.1/22

Left: -0.049+/-0.000 χ^2/NDF : 296677486.5/47

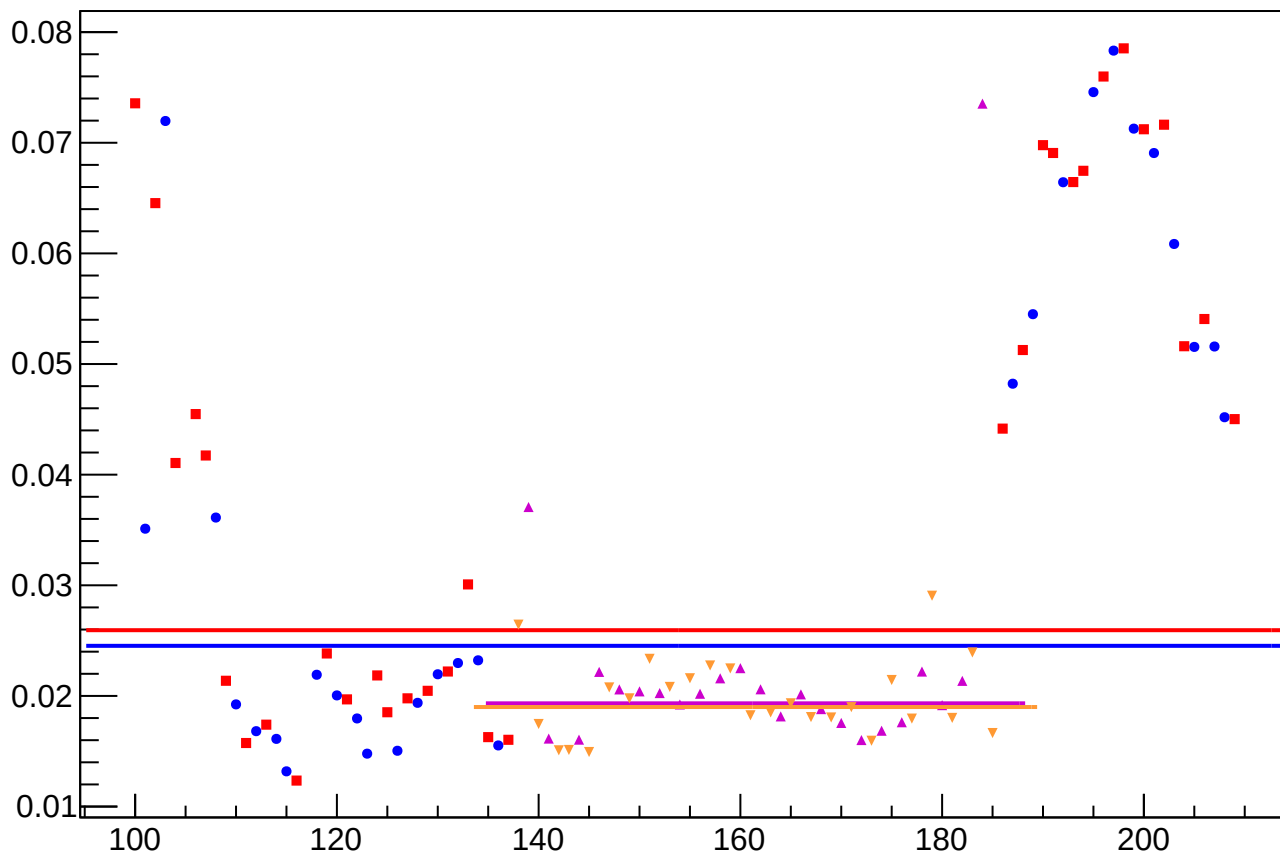
Right: -0.198+/-0.000 χ^2/NDF : 223219500.6/59

In: -0.087+/-0.000 χ^2/NDF : 463239499.5/50

Out: -0.096+/-0.000 χ^2/NDF : 543643872.3/56

All: -0.092+/-0.000 χ^2/NDF : 1008765174.7/111

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 7430488.2/27

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.026+/-0.000 χ^2/NDF : 8040371.3/31

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

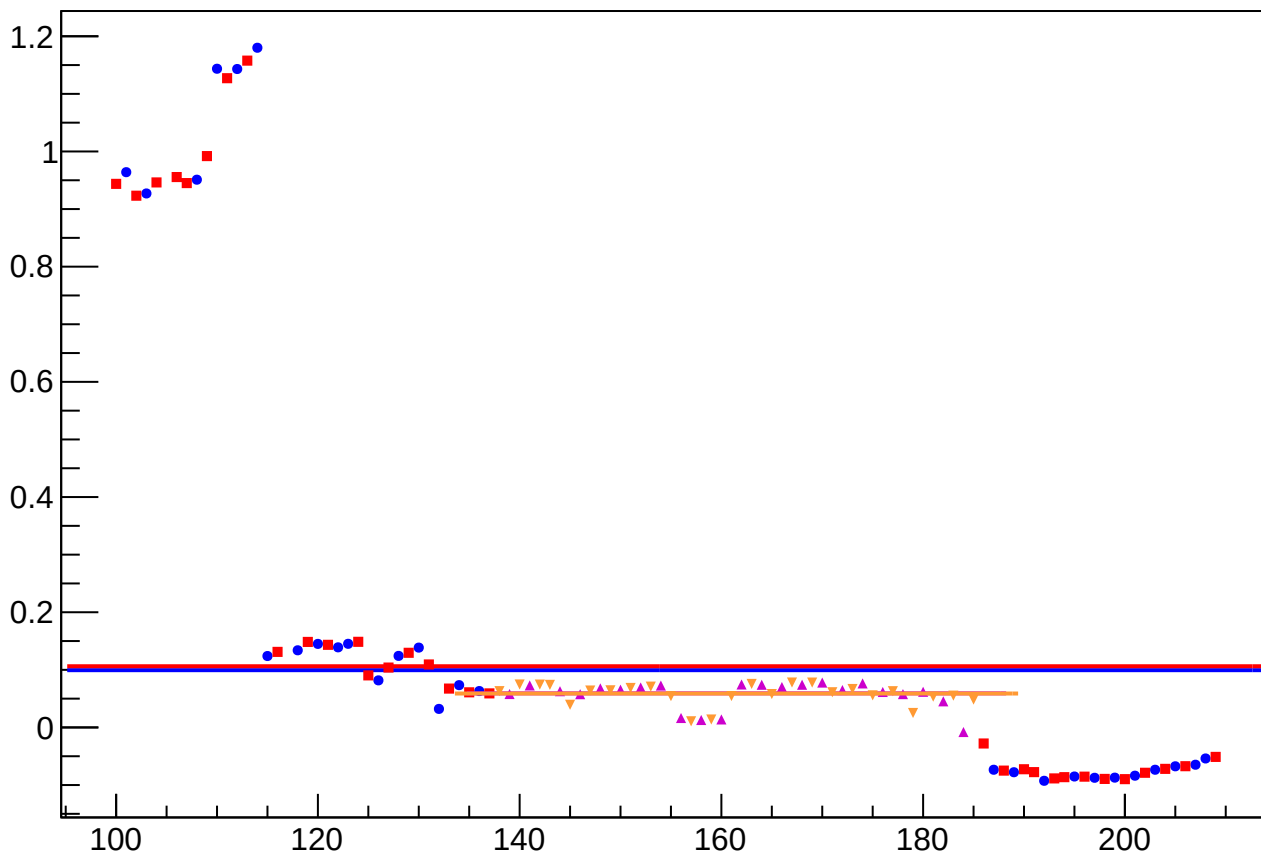
Right: 0.025+/-0.000 χ^2/NDF : 15501674.6/59

In: 0.021+/-0.000 χ^2/NDF : 8916214.7/50

Out: 0.021+/-0.000 χ^2/NDF : 9813743.4/56

All: 0.021+/-0.000 χ^2/NDF : 18730062.1/107

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.099+/-0.000

χ^2/NDF : 8095459629.2/27

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

Right: 0.103+/-0.000 χ^2/NDF : 17187683679.6/59

Left Out: 0.059+/-0.000

χ^2/NDF : 46902918.4/24

In: 0.074+/-0.000 χ^2/NDF : 8237001019.6/50

Right Out: 0.106+/-0.000

χ^2/NDF : 9090307598.9/31

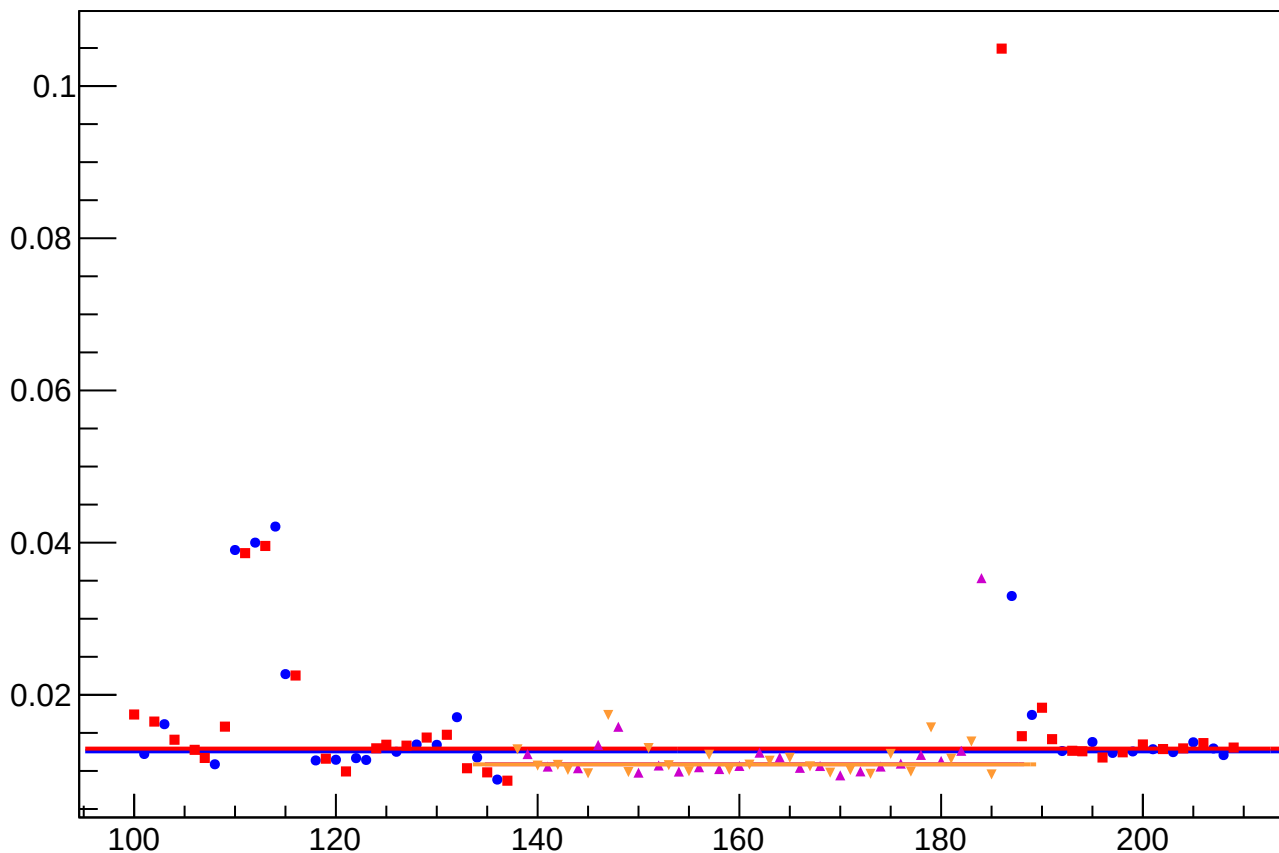
Out: 0.076+/-0.000 χ^2/NDF : 9255638157.1/56

Left In: 0.059+/-0.000

χ^2/NDF : 58640898.5/22

All: 0.075+/-0.000 χ^2/NDF : 17493087403.9/1

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1492649.3/27

Left Out: 0.011+/-0.000 χ^2/NDF :605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1896761.0/31

Left In: 0.011+/-0.000 χ^2/NDF :529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

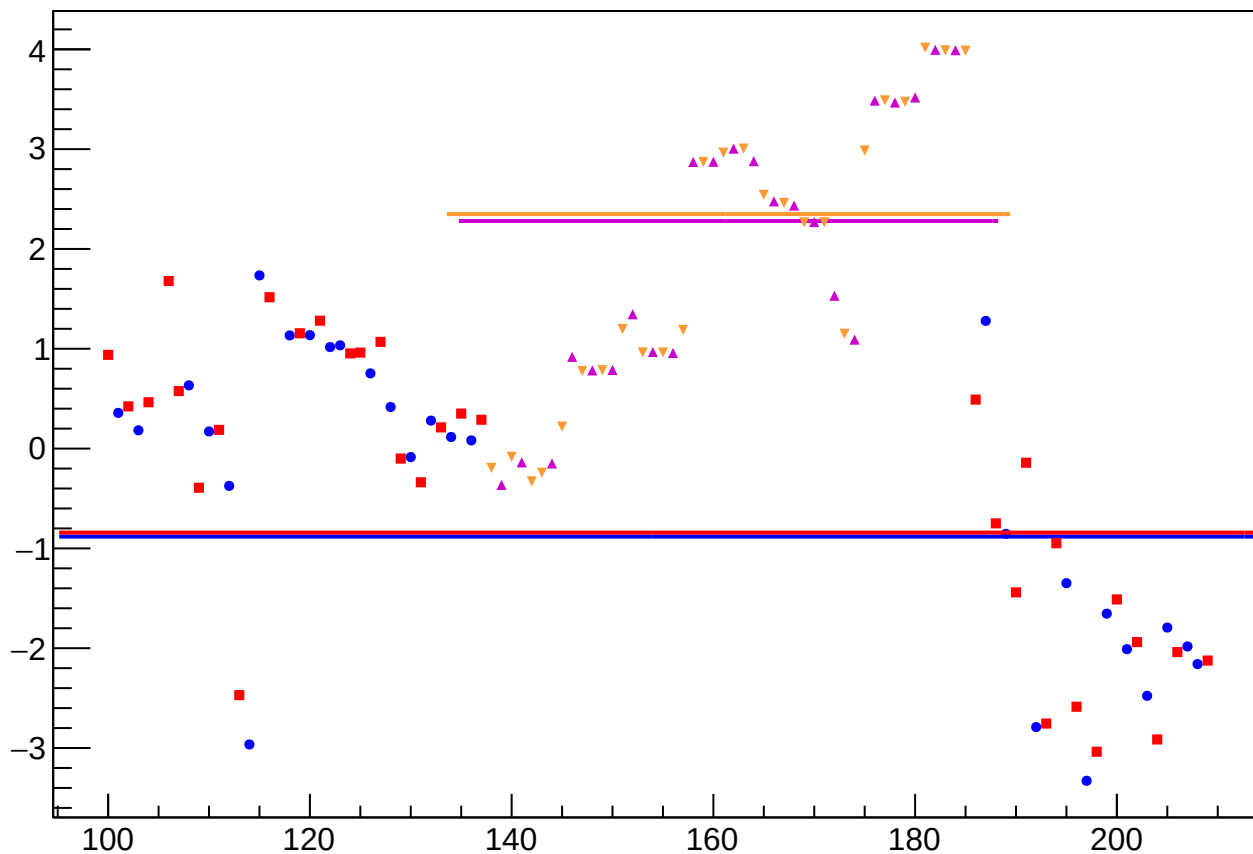
Right: 0.013+/-0.000 χ^2/NDF : 3399967.4/59

In: 0.012+/-0.000 χ^2/NDF :2312924.5/50

Out: 0.012+/-0.000 χ^2/NDF :2954641.6/56

All: 0.012+/-0.000 χ^2/NDF : 5269832.8/107

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.882 ± 0.000 χ^2/NDF : 6814876735.3/27

Left Out: 2.349 ± 0.000 χ^2/NDF : 63600066268.3/24

Right Out: -0.841 ± 0.000 χ^2/NDF : 8089903796.2/31

Left In: 2.280 ± 0.000 χ^2/NDF : 61444254541.3/22

Left: 2.314 ± 0.000 χ^2/NDF : 125168787170.9/47

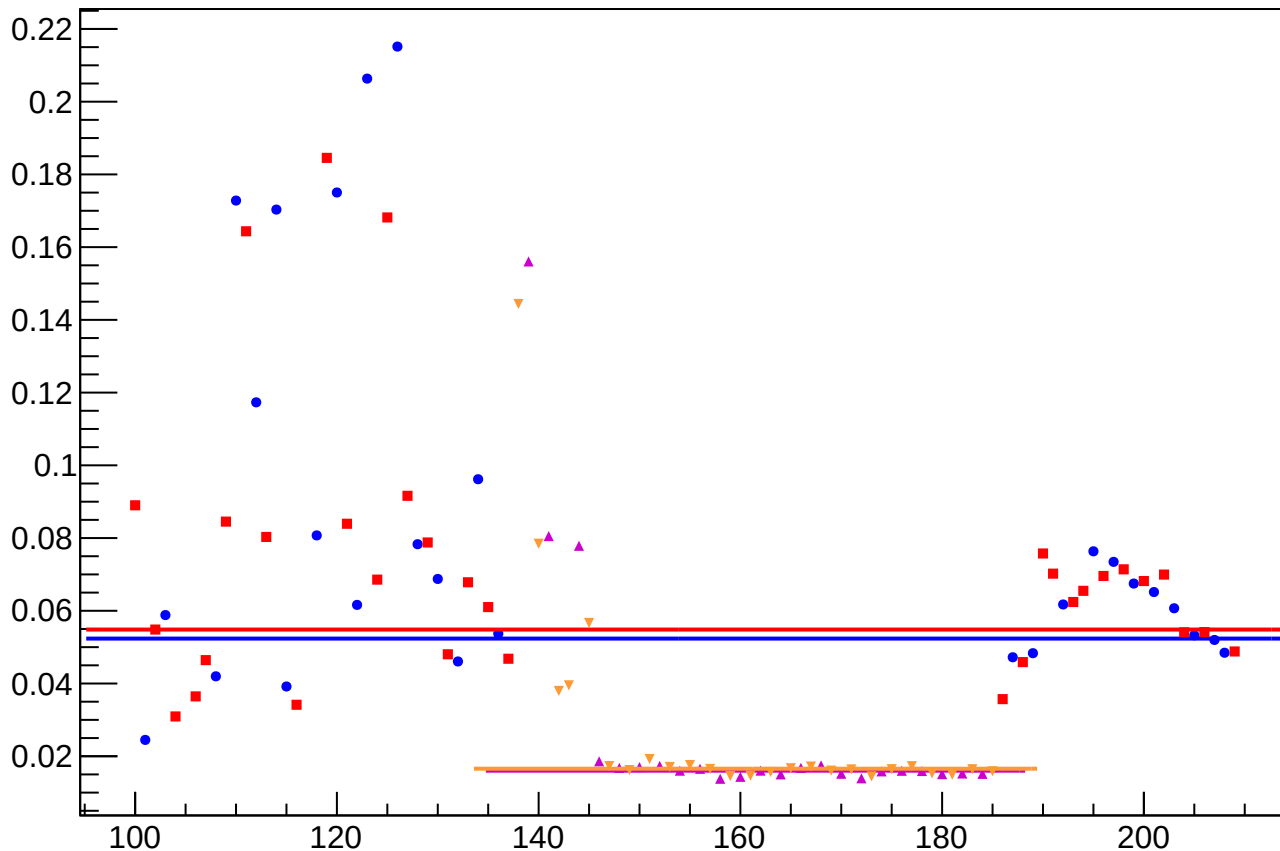
Right: -0.861 ± 0.000 χ^2/NDF : 14907937052.3/59

In: 2.064 ± 0.000 χ^2/NDF : 103925256894.4/50

Out: 2.118 ± 0.000 χ^2/NDF : 109396298692.5/56

All: 2.091 ± 0.000 χ^2/NDF : 213403463152.6

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3467099.6/27

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2623615.6/24

Right Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 2860364.9/31

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2463853.3/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5102815.6/47

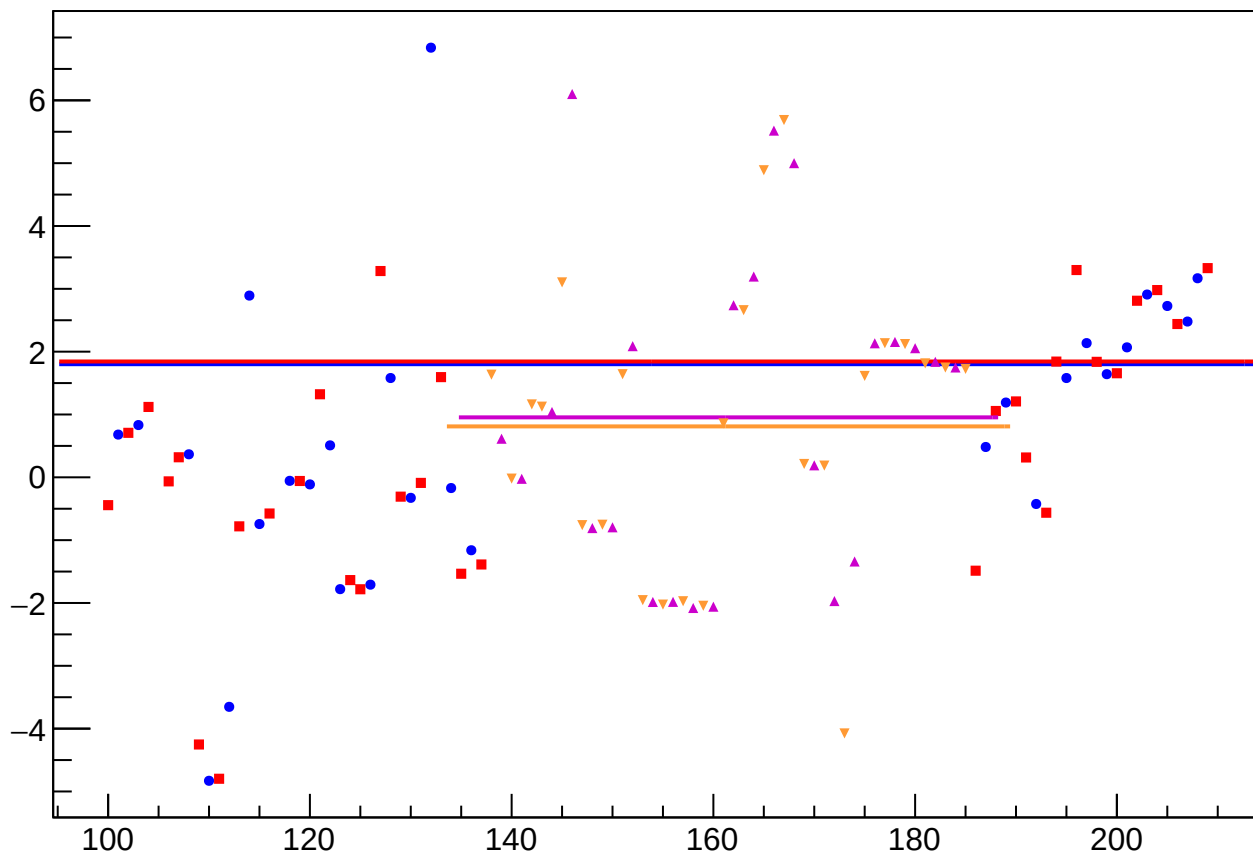
Right: 0.054 $\pm$ 0.000 χ^2 /NDF: 6351588.8/59

In: 0.019 $\pm$ 0.000 χ^2 /NDF:15346745.3/50

Out: 0.019 $\pm$ 0.000 χ^2 /NDF:16328130.2/56

All: 0.019 $\pm$ 0.000 χ^2 /NDF: 31713616.6/107

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.801+/-0.000

χ^2/NDF : 36928921450.4/27

Left: 0.883+/-0.000

χ^2/NDF : 1083260277372.9/47

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

Right: 1.822+/-0.000

χ^2/NDF : 76269874819.1/59

Right Out: 1.844+/-0.000

χ^2/NDF : 39318643689.4/31

In: 1.139+/-0.000

χ^2/NDF : 625084245547.0/50

Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

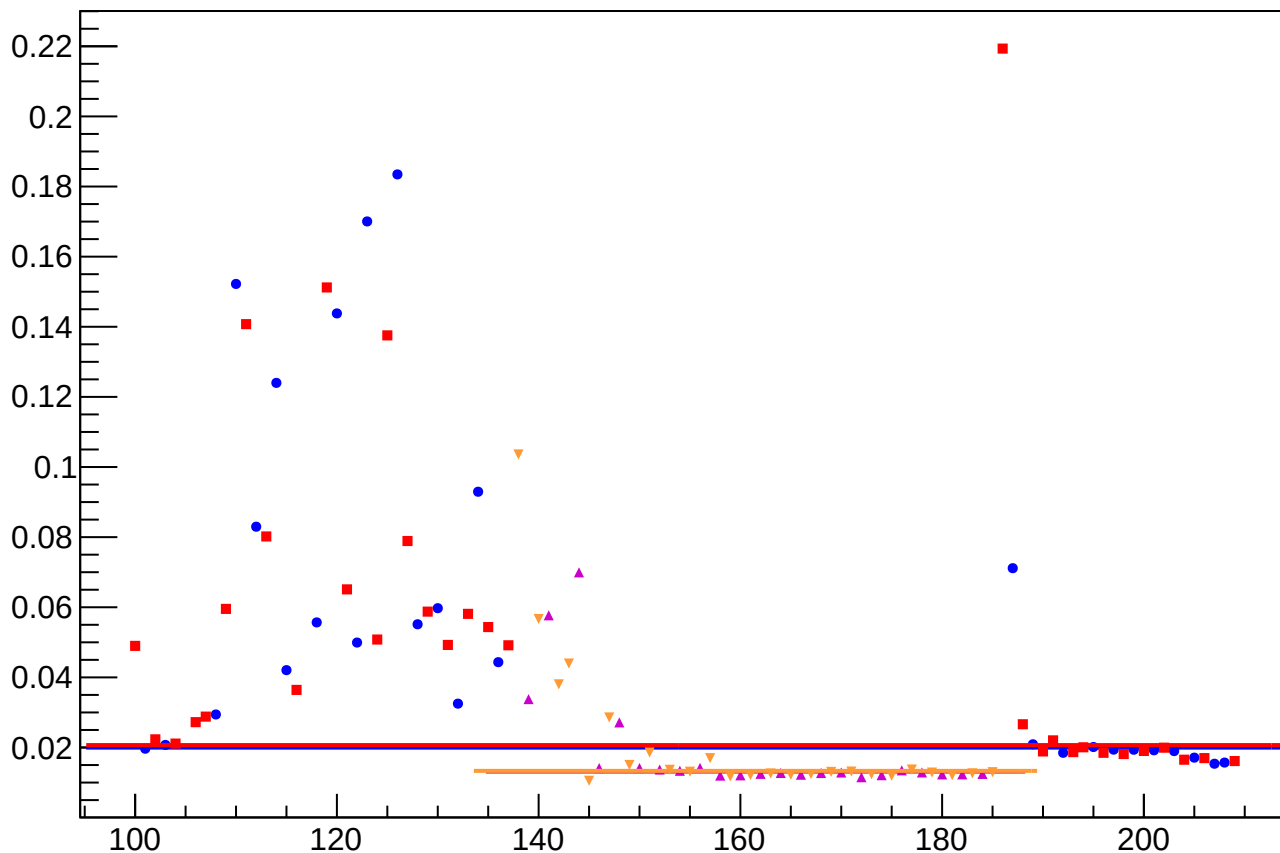
Out: 1.040+/-0.000

χ^2/NDF : 567057253988.8/56

All: 1.089+/-0.000

χ^2/NDF : 1192678635995.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4066861.0/27

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5144233.6/31

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

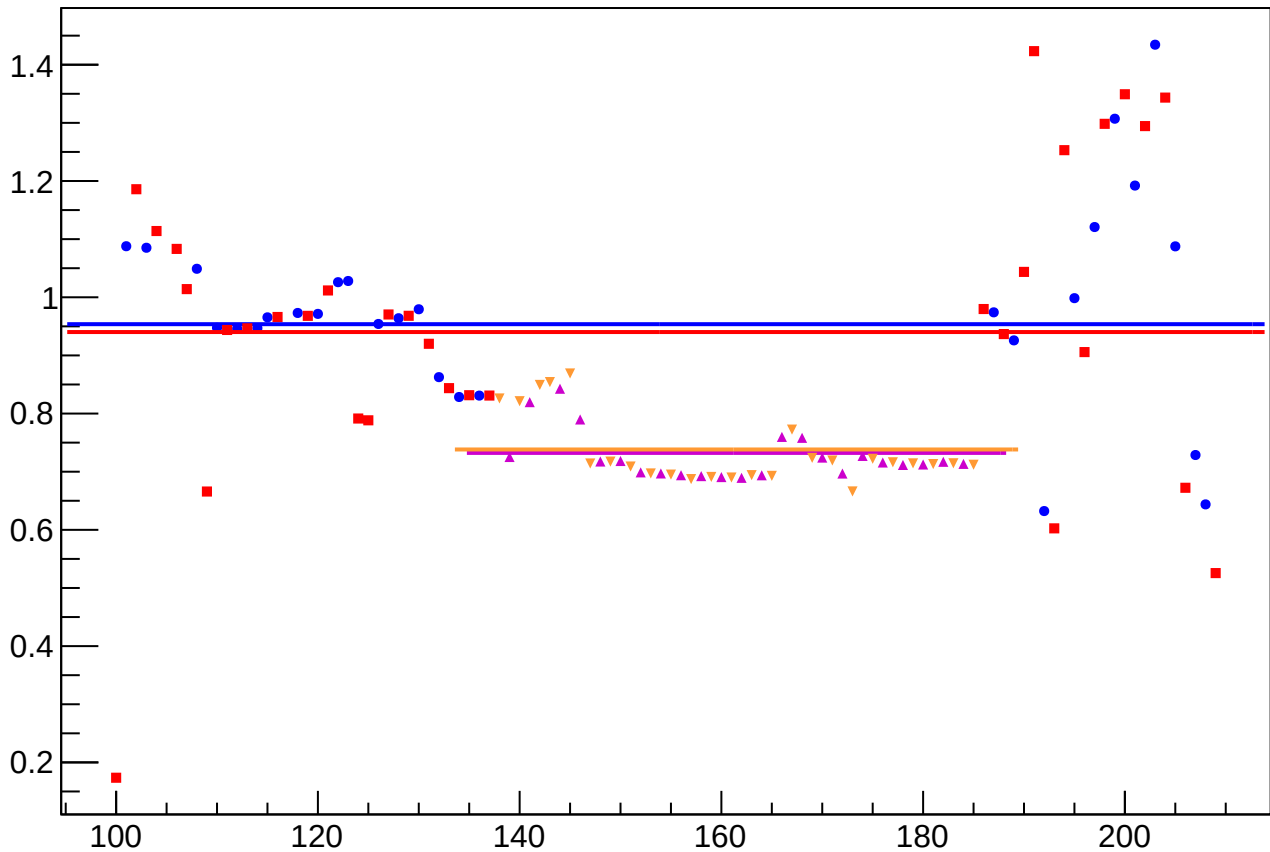
Right: 0.020+/-0.000 χ^2/NDF : 9223514.1/59

In: 0.015+/-0.000 χ^2/NDF :7781149.6/50

Out: 0.015+/-0.000 χ^2/NDF :10014872.9/56

All: 0.015+/-0.000 χ^2/NDF : 17809177.2/107

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.954+/-0.000 χ^2/NDF : 673981926.3/27

Left Out: 0.738+/-0.000 χ^2/NDF :310610047.7/24

Right Out: 0.940+/-0.000 χ^2/NDF : 1128477020.1/31

Left In: 0.732+/-0.000 χ^2/NDF :170806298.1/22

Left: 0.735+/-0.000 χ^2/NDF : 482865670.9/47

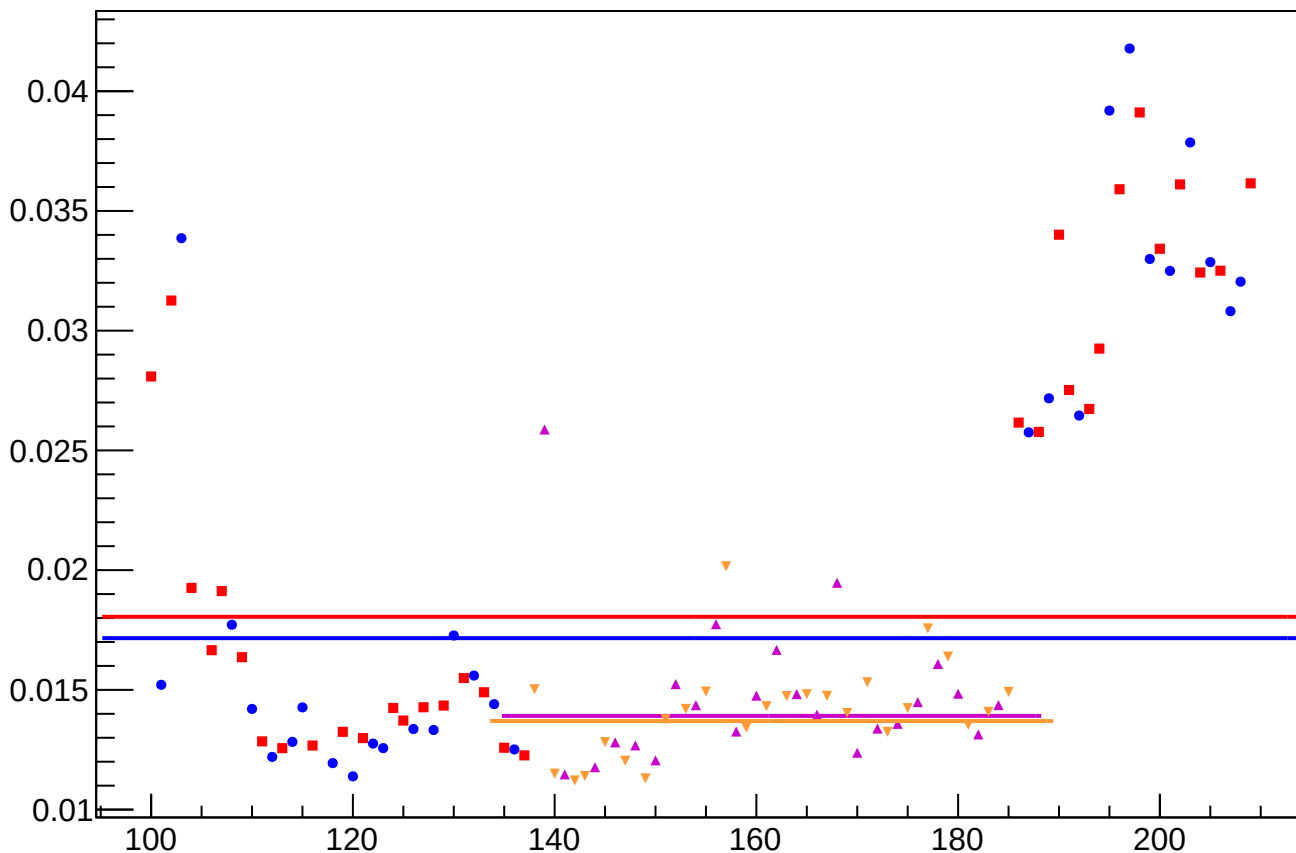
Right: 0.947+/-0.000 χ^2/NDF : 1805880335.3/59

In: 0.802+/-0.000 χ^2/NDF :2092012218.1/50

Out: 0.799+/-0.000 χ^2/NDF :2507211824.9/56

All: 0.801+/-0.000 χ^2/NDF : 4599778476.9/10

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 4580160.4/27

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.018+/-0.000 χ^2/NDF : 4331648.8/31

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

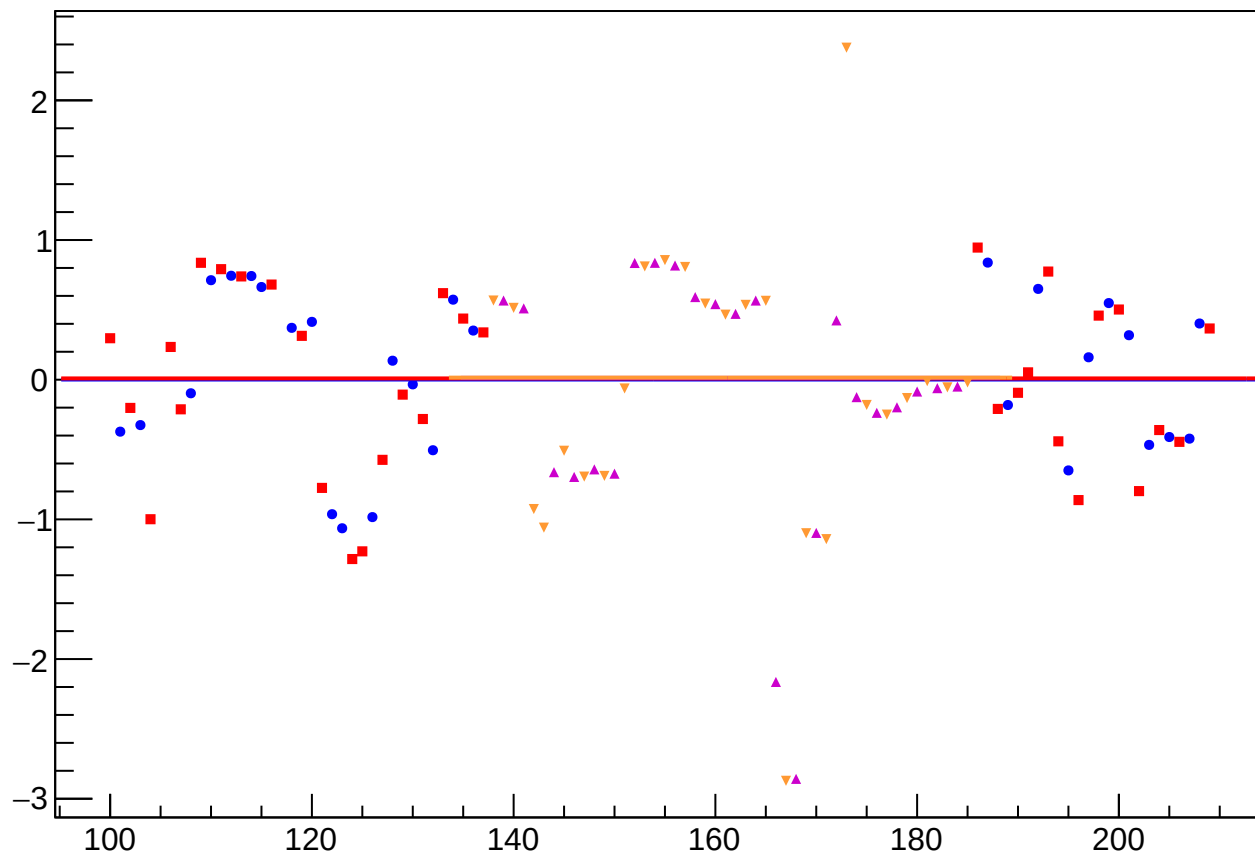
Right: 0.018+/-0.000 χ^2/NDF : 8941567.4/59

In: 0.015+/-0.000 χ^2/NDF : 5911216.0/50

Out: 0.015+/-0.000 χ^2/NDF : 5855201.9/56

All: 0.015+/-0.000 χ^2/NDF : 11767108.2/107

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 20207234828.9/27

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

Right: 0.005+/-0.000 χ^2/NDF : 50213365174.5/59

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

In: 0.008+/-0.000 χ^2/NDF : 99659280990.9/50

Right Out: 0.009+/-0.000 χ^2/NDF : 30003602918.4/31

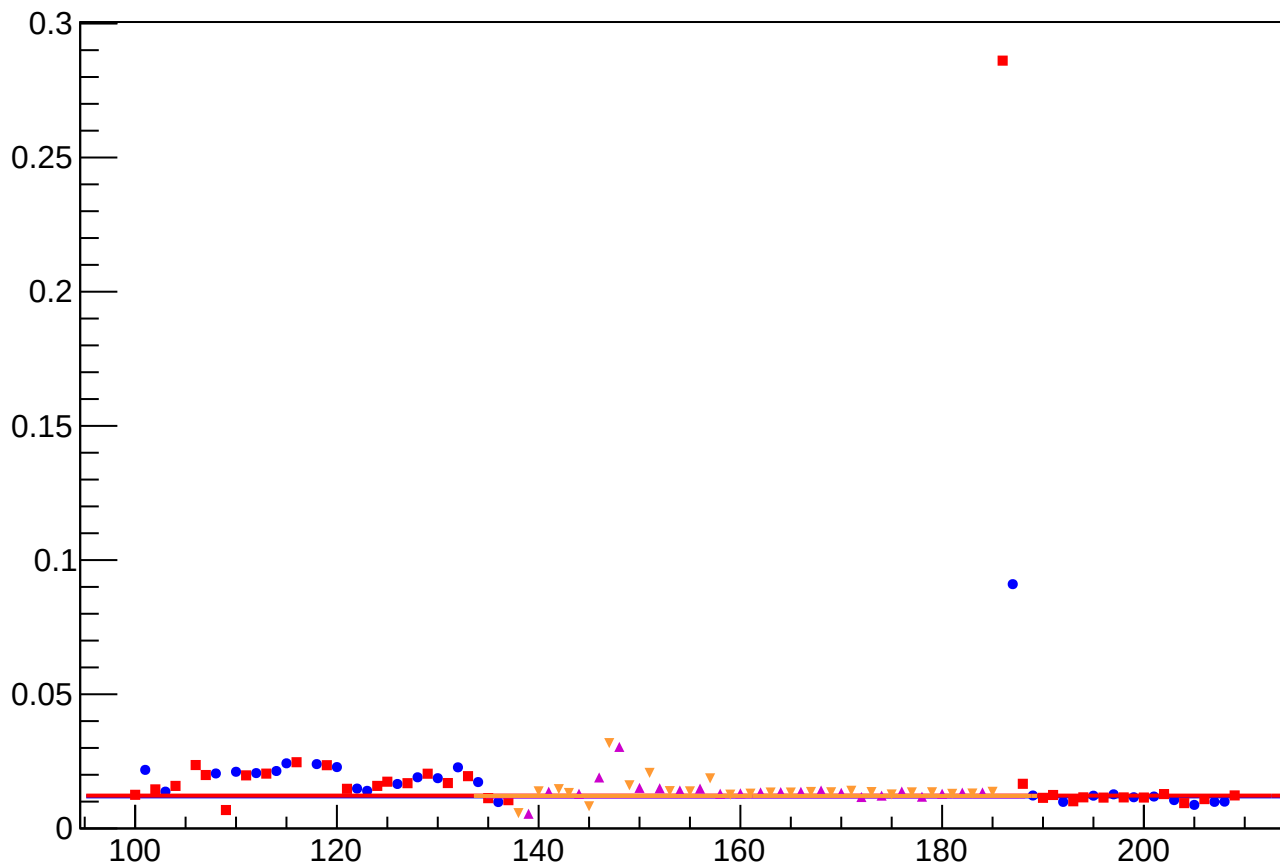
Out: 0.012+/-0.000 χ^2/NDF : 126092948845.1/56

Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

All: 0.010+/-0.000 χ^2/NDF : 225754086640.4

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2326693.0/27

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2682475.4/31

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

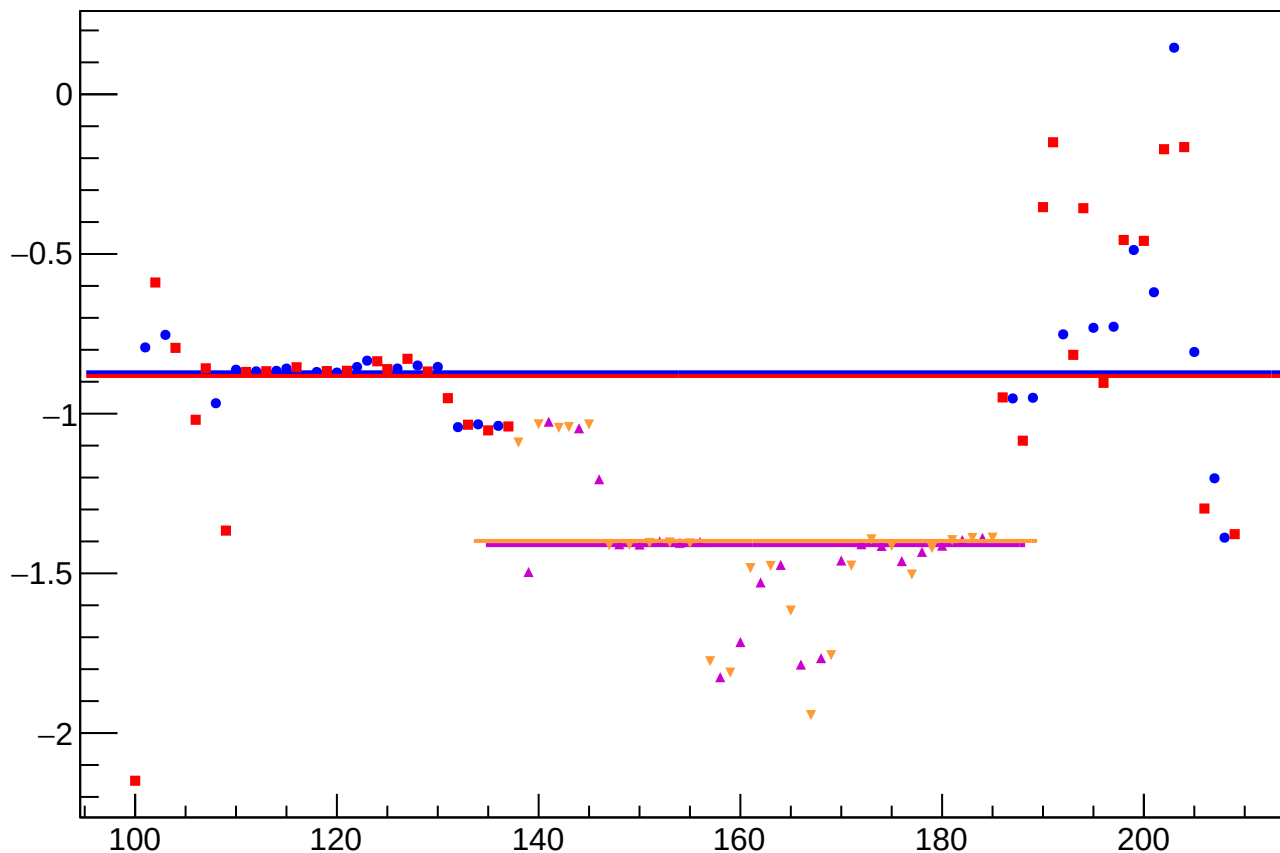
Right: 0.012+/-0.000 χ^2/NDF : 5016838.0/59

In: 0.012+/-0.000 χ^2/NDF :5432669.3/50

Out: 0.012+/-0.000 χ^2/NDF :5791740.9/56

All: 0.012+/-0.000 χ^2/NDF : 11235263.9/107

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.870 ± 0.000 $\chi^2/\text{NDF}: 210077076.4/27$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.882 ± 0.000 $\chi^2/\text{NDF}: 418563446.6/31$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

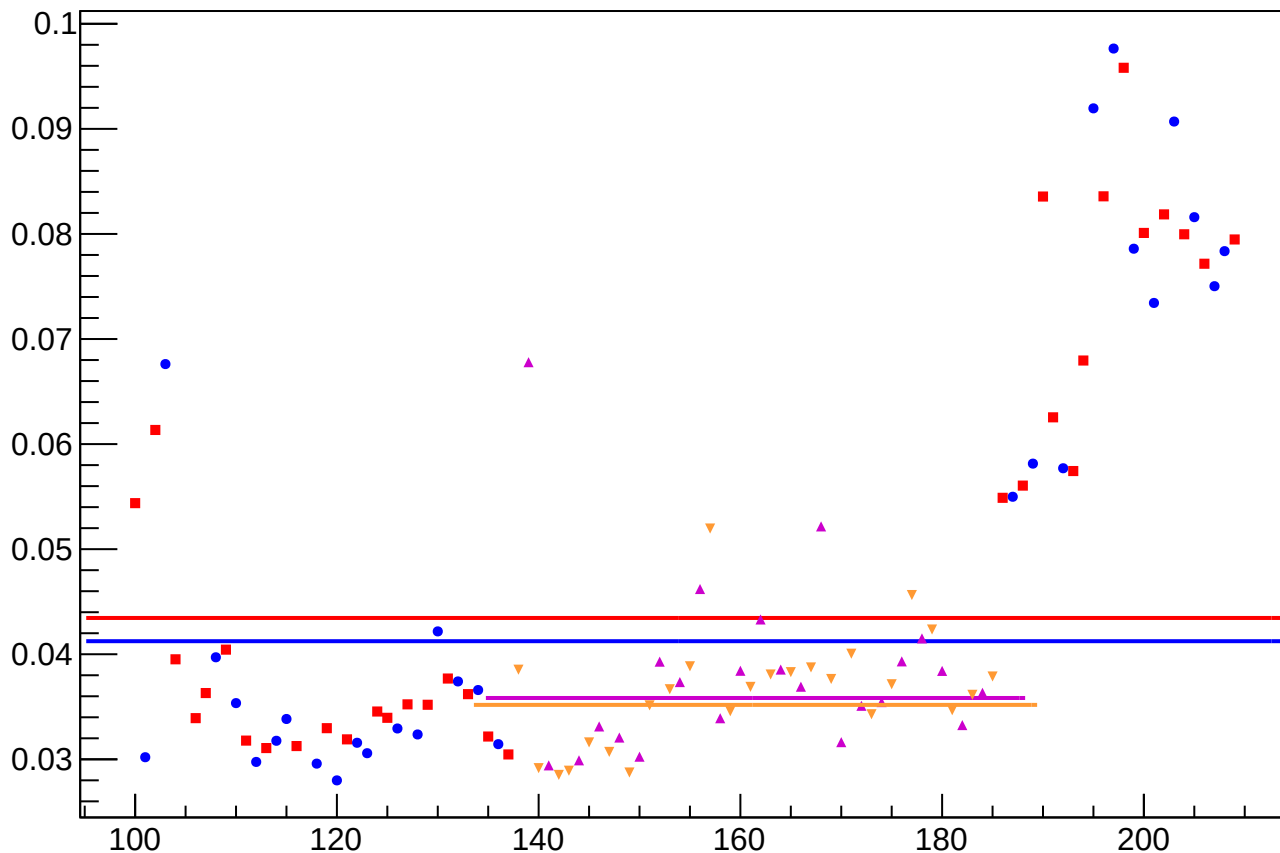
Right: -0.876 ± 0.000 $\chi^2/\text{NDF}: 629070708.5/59$

In: -1.220 ± 0.000 $\chi^2/\text{NDF}: 1963007860.9/50$

Out: -1.224 ± 0.000 $\chi^2/\text{NDF}: 2326272435.9/56$

All: -1.222 ± 0.000 $\chi^2/\text{NDF}: 4289395101.0/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.041+/-0.000 χ^2/NDF : 4269139.6/27

Left Out: 0.035+/-0.000 χ^2/NDF : 597886.0/24

Right Out: 0.043+/-0.000 χ^2/NDF : 3805634.1/31

Left In: 0.036+/-0.000 χ^2/NDF : 890993.5/22

Left: 0.035+/-0.000 χ^2/NDF : 1494255.9/47

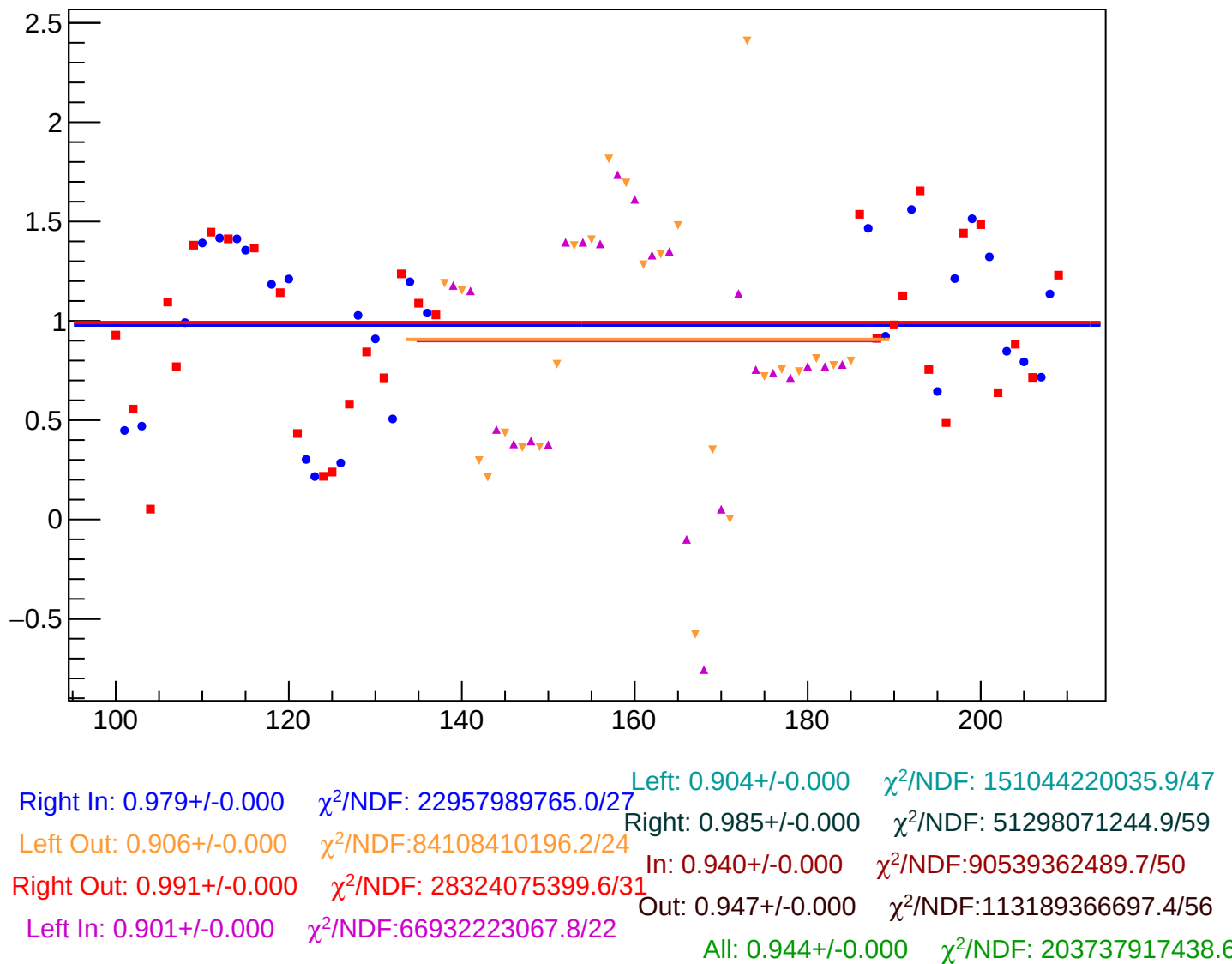
Right: 0.042+/-0.000 χ^2/NDF : 8107037.8/59

In: 0.038+/-0.000 χ^2/NDF : 5407754.9/50

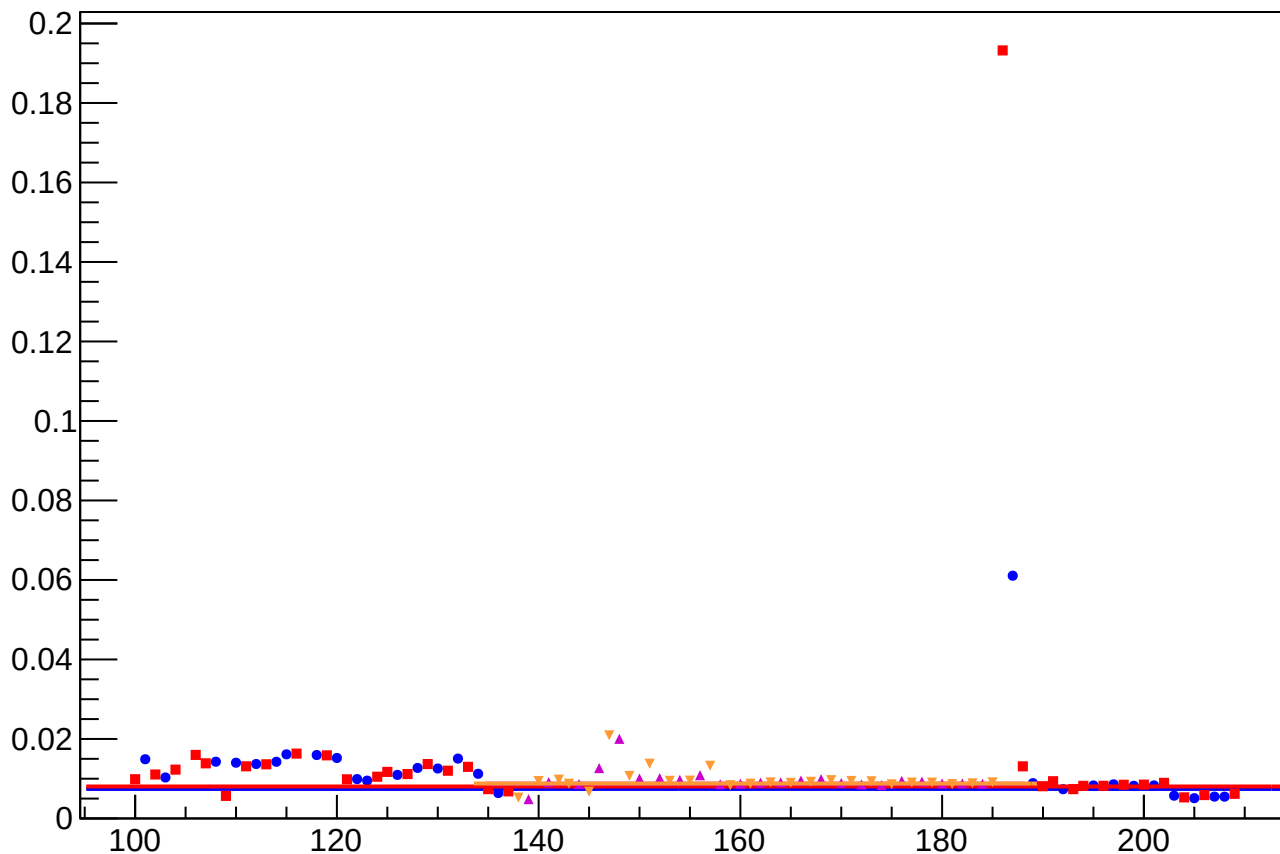
Out: 0.038+/-0.000 χ^2/NDF : 5005325.9/56

All: 0.038+/-0.000 χ^2/NDF : 10414104.4/107

yield_bpm12Y_mean vs Slug, Sign Corrected



yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 3160045.5/27

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1698526.2/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 3249474.8/31

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:1669983.7/22

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 3369008.8/47

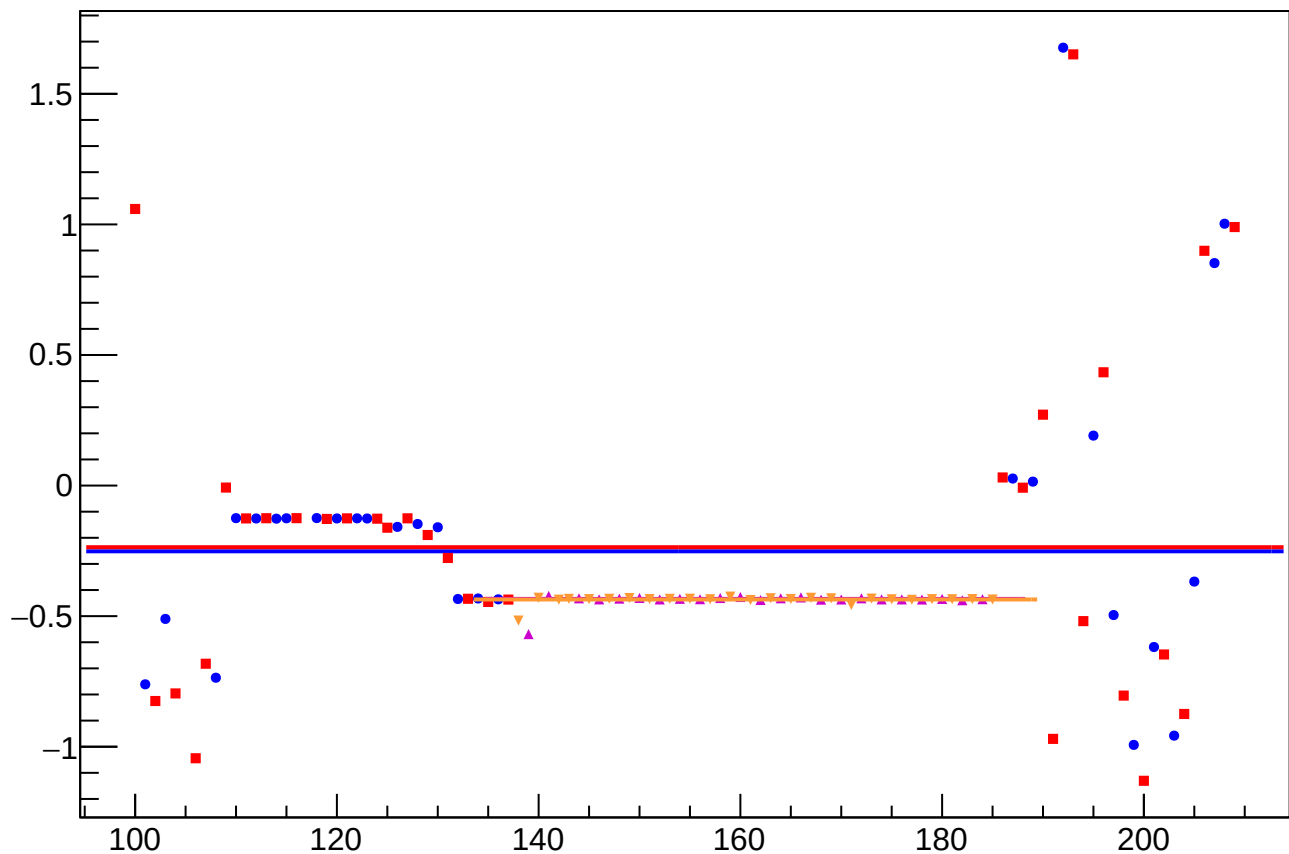
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 6487123.5/59

In: 0.008 $\pm$ 0.000 χ^2 /NDF:5190690.7/50

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:5063560.1/56

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 10307850.8/107

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.252+/-0.000 χ^2/NDF : 3162789533.3/27

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.236+/-0.000 χ^2/NDF : 3258370180.9/31

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

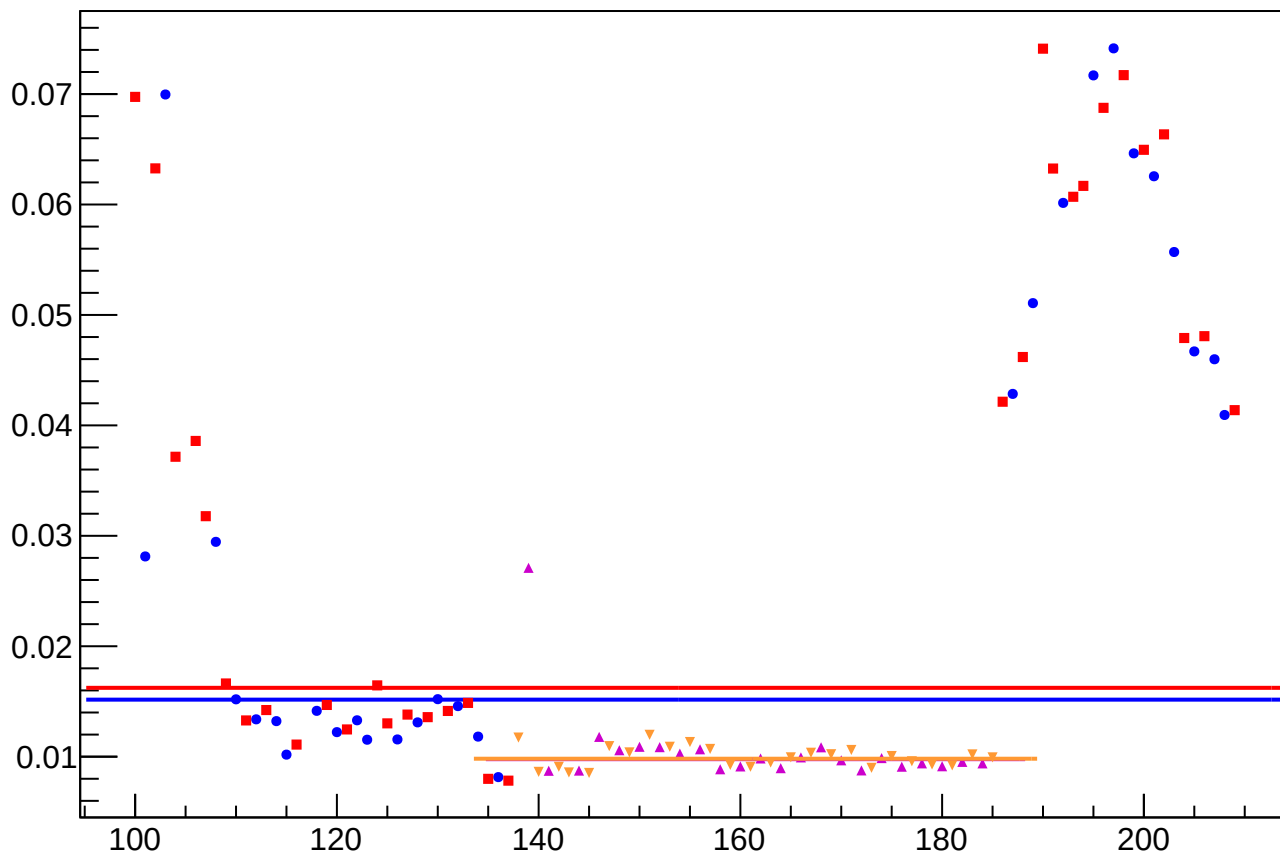
Right: -0.244+/-0.000 χ^2/NDF : 6425246558.6/59

In: -0.401+/-0.000 χ^2/NDF : 4107098247.7/50

Out: -0.403+/-0.000 χ^2/NDF : 4373613364.8/56

All: -0.402+/-0.000 χ^2/NDF : 8481045343.7/1

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2/NDF : 10187694.1/27

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF : 271172.3/24

Right Out: 0.016 $\pm$ 0.000 χ^2/NDF : 11118761.1/31

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

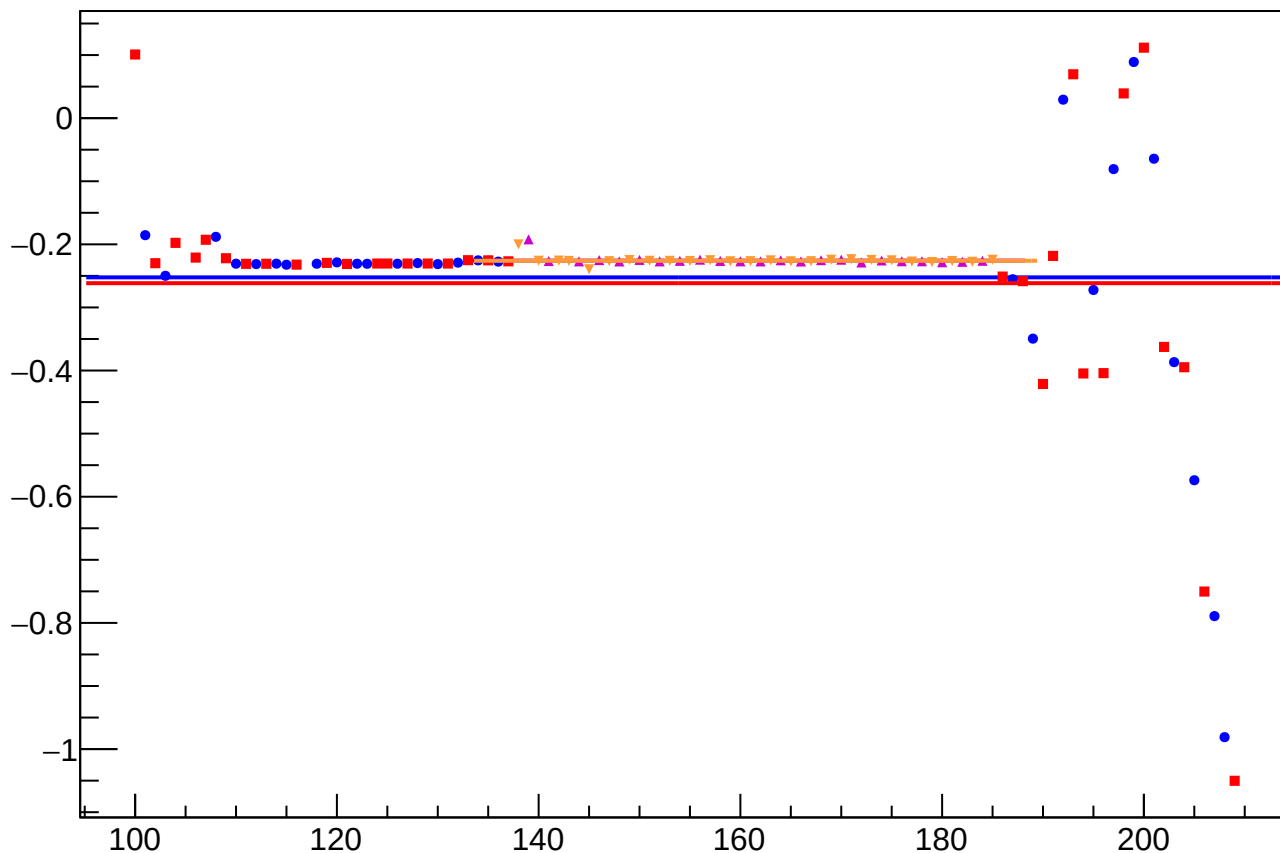
Right: 0.016 $\pm$ 0.000 χ^2/NDF : 21344524.7/59

In: 0.011 $\pm$ 0.000 χ^2/NDF : 12591612.4/50

Out: 0.011 $\pm$ 0.000 χ^2/NDF : 13625066.2/56

All: 0.011 $\pm$ 0.000 χ^2/NDF : 26220189.8/107

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.252+/-0.000 χ^2/NDF : 22527456766.0/27

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.262+/-0.000 χ^2/NDF : 23634940012.9/31

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

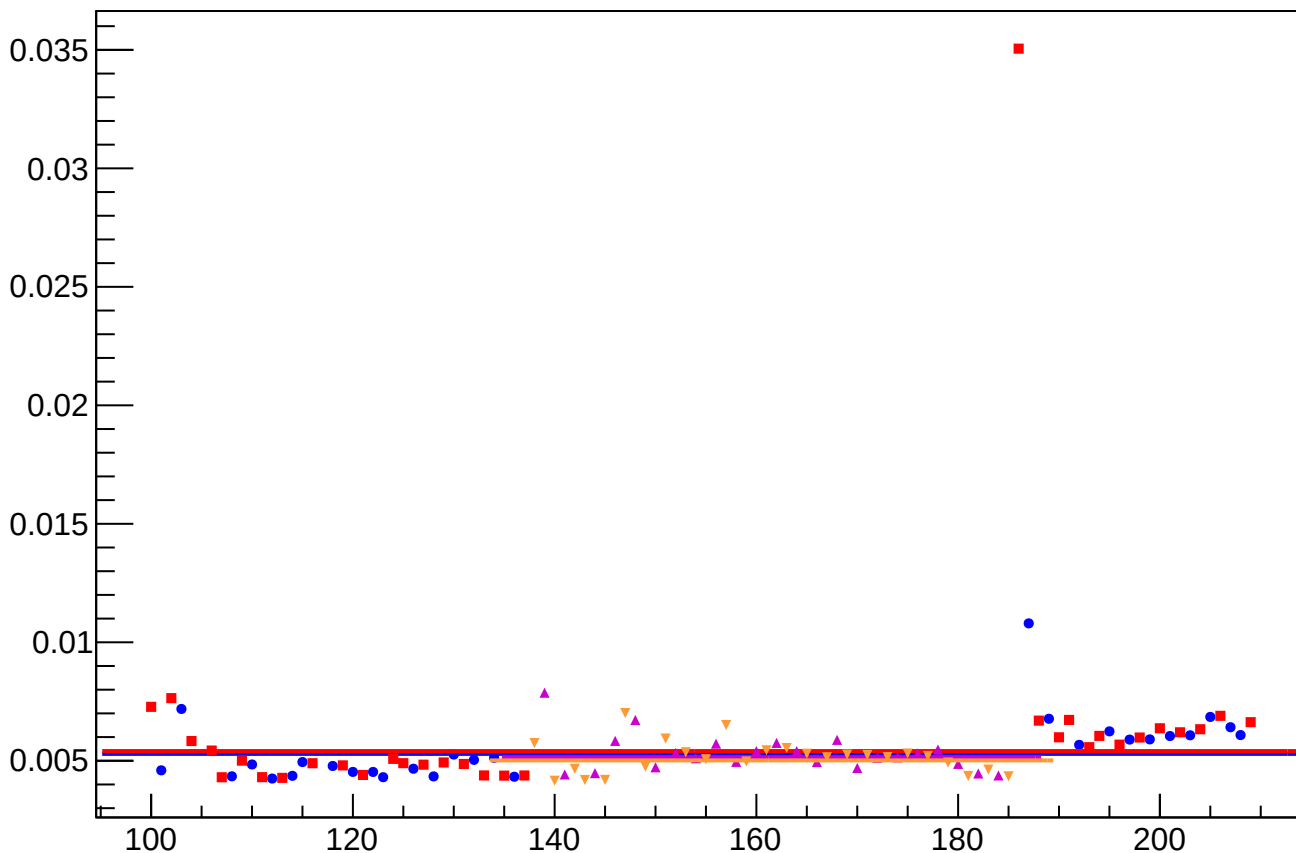
Right: -0.257+/-0.000 χ^2/NDF : 46182488075.5/59

In: -0.237+/-0.000 χ^2/NDF : 22729250626.9/50

Out: -0.241+/-0.000 χ^2/NDF : 24014300083.8/56

All: -0.239+/-0.000 χ^2/NDF : 46750667154.7/112

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 767290.7/27

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1304964.4/31

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

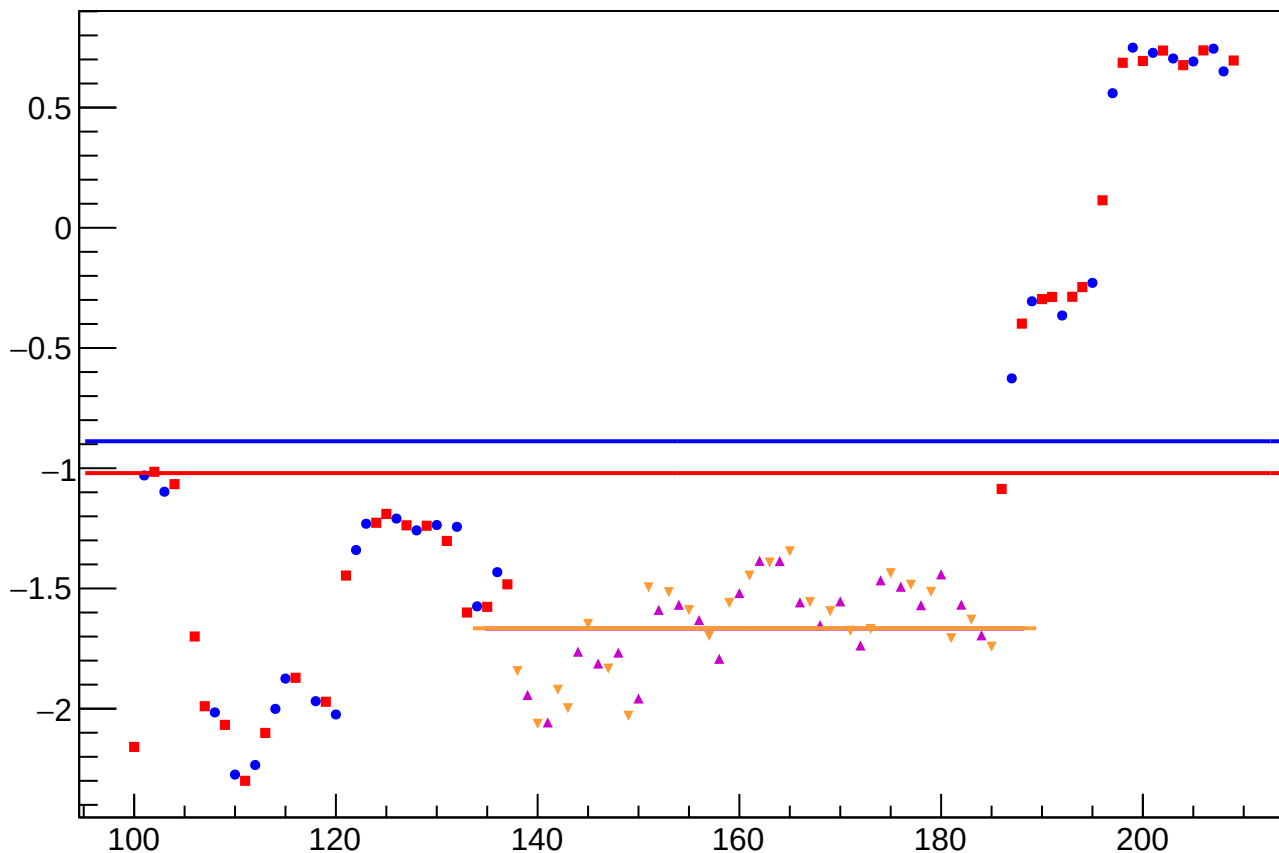
Right: 0.005+/-0.000 χ^2/NDF : 2078917.9/59

In: 0.005+/-0.000 χ^2/NDF : 1282071.3/50

Out: 0.005+/-0.000 χ^2/NDF : 1925781.7/56

All: 0.005+/-0.000 χ^2/NDF : 3208969.7/107

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.888+/-0.000

χ^2/NDF : 193970996139.8/27

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -0.959+/-0.000

χ^2/NDF : 418325124116.3/59

Right Out: -1.020+/-0.000

χ^2/NDF : 222402427269.2/31

In: -1.408+/-0.000

χ^2/NDF : 291963820767.8/50

Out: -1.437+/-0.000

χ^2/NDF : 306004040016.8/56

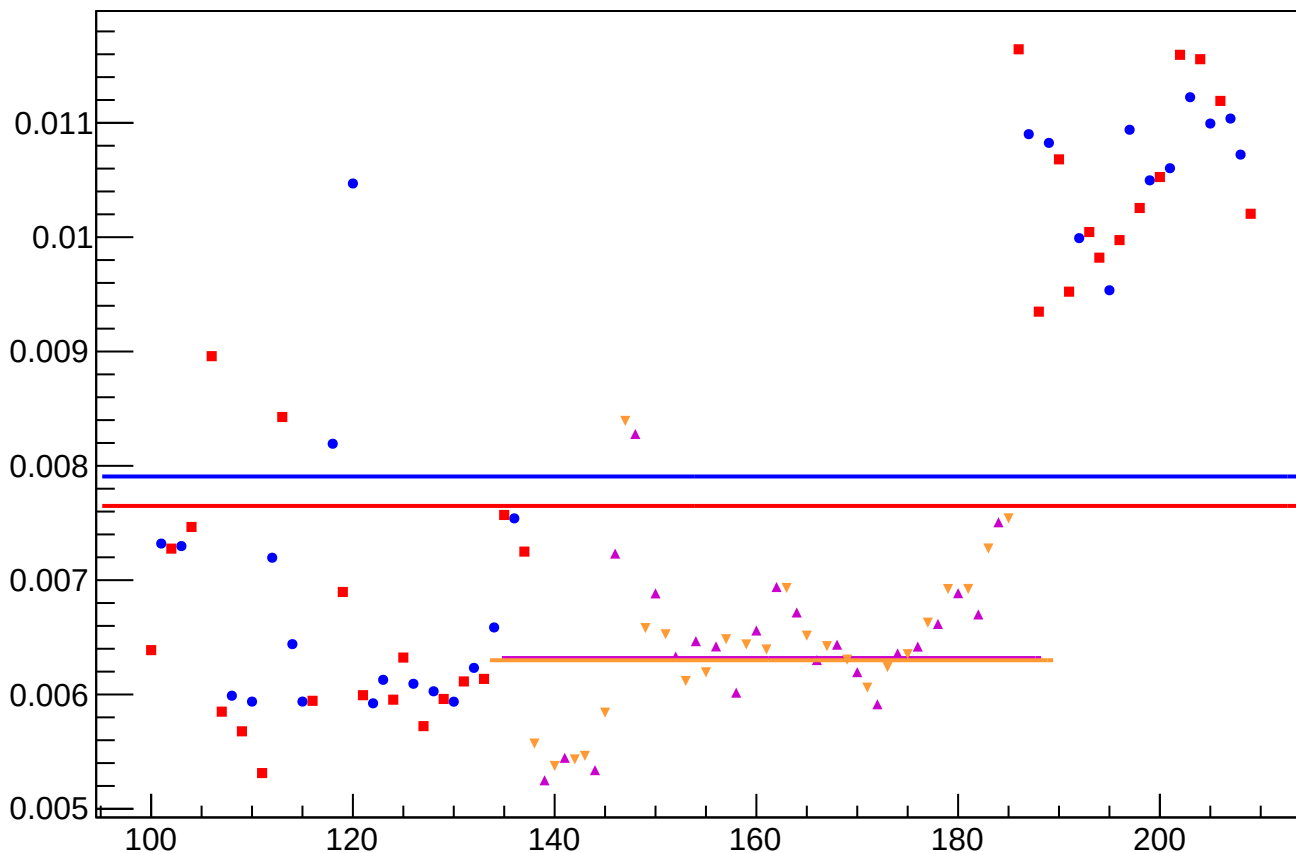
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.423+/-0.000

χ^2/NDF : 598233299445.3

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1652216.5/27

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2005493.7/31

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

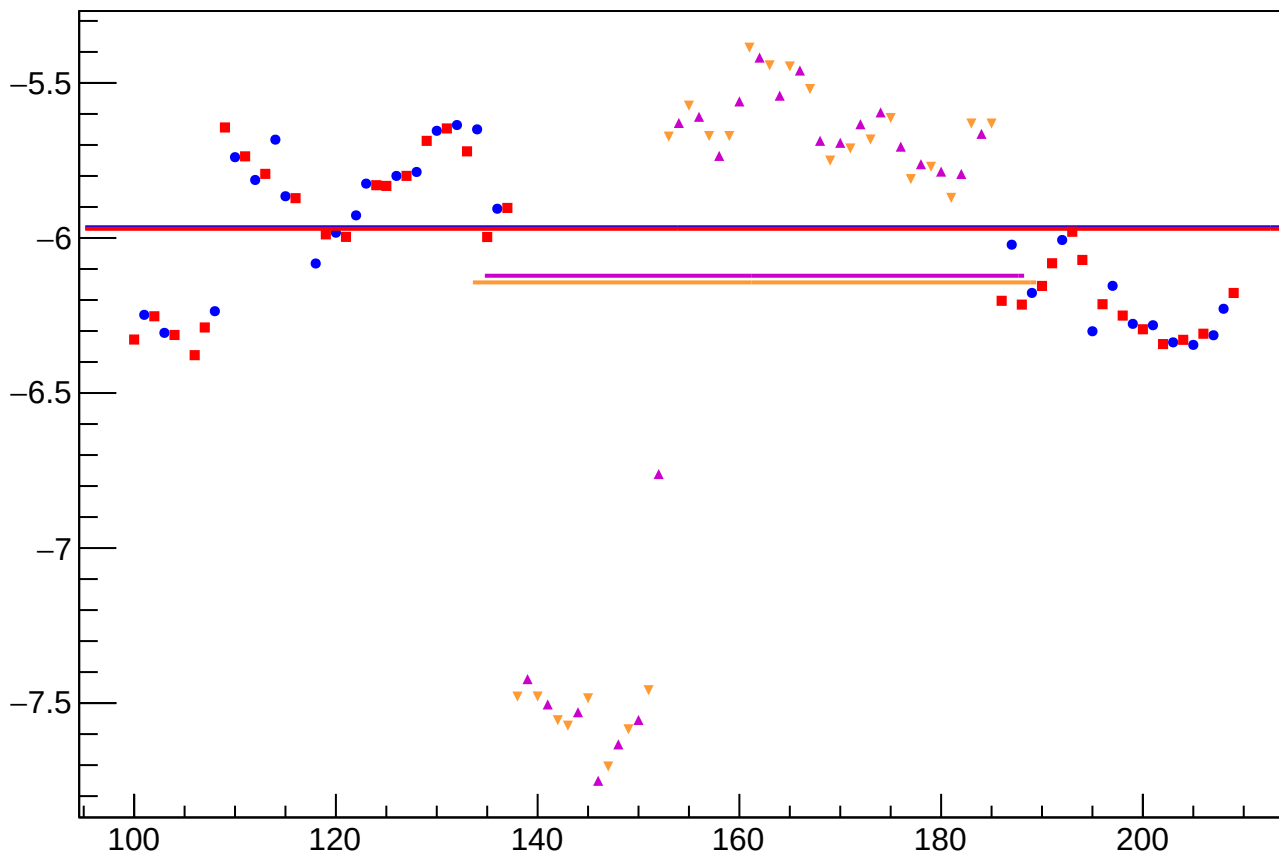
Right: 0.008+/-0.000 χ^2/NDF : 3672476.2/59

In: 0.007+/-0.000 χ^2/NDF :2679326.3/50

Out: 0.007+/-0.000 χ^2/NDF :2888880.7/56

All: 0.007+/-0.000 χ^2/NDF : 5571210.5/107

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.965+/-0.000 χ^2/NDF : 15236571892.6/27

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.970+/-0.000 χ^2/NDF : 16539869614.2/31

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

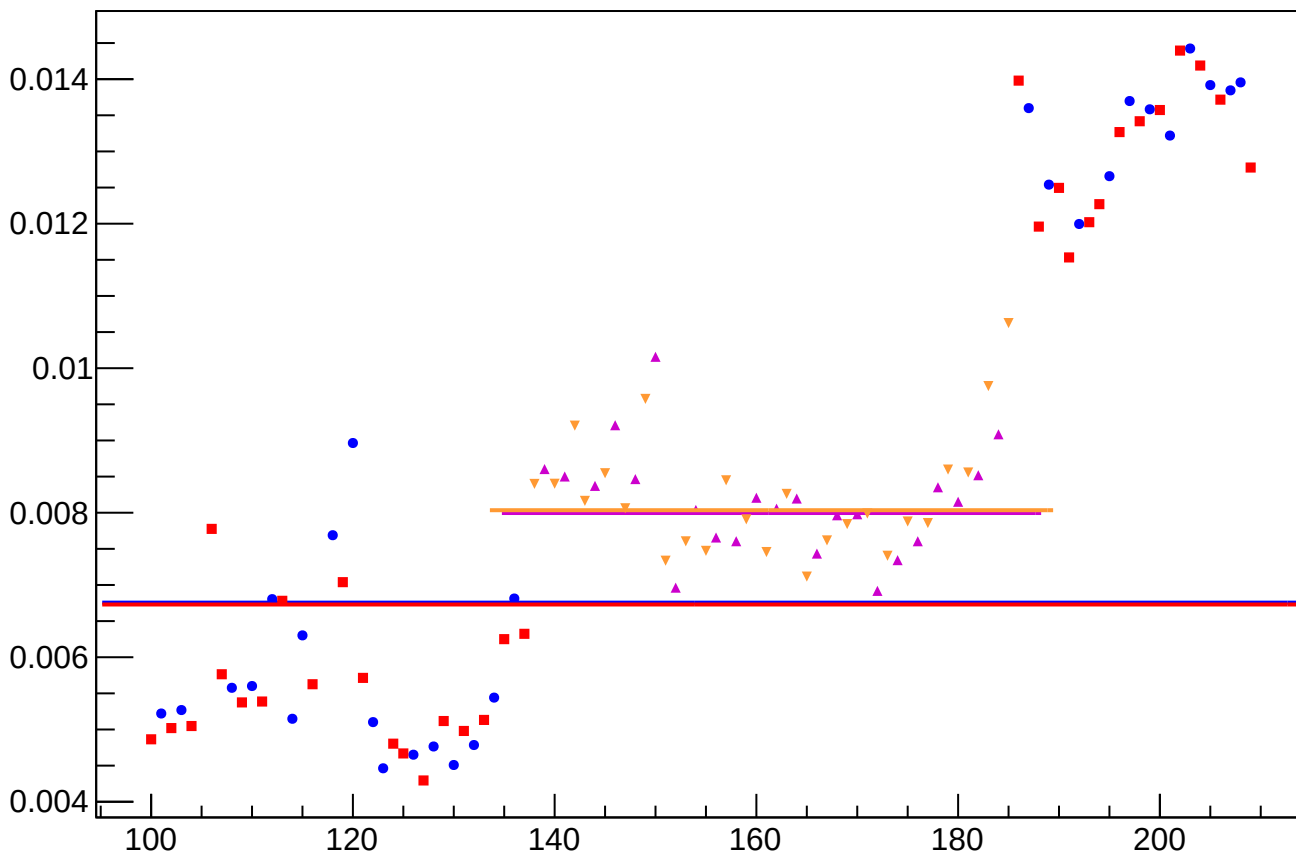
Right: -5.968+/-0.000 χ^2/NDF : 31779493548.6/59

In: -6.045+/-0.000 χ^2/NDF : 178150436693.3/50

Out: -6.054+/-0.000 χ^2/NDF : 206222064558.3/56

All: -6.050+/-0.000 χ^2/NDF : 384397317882.5

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4761899.8/27

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 5052734.4/31

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

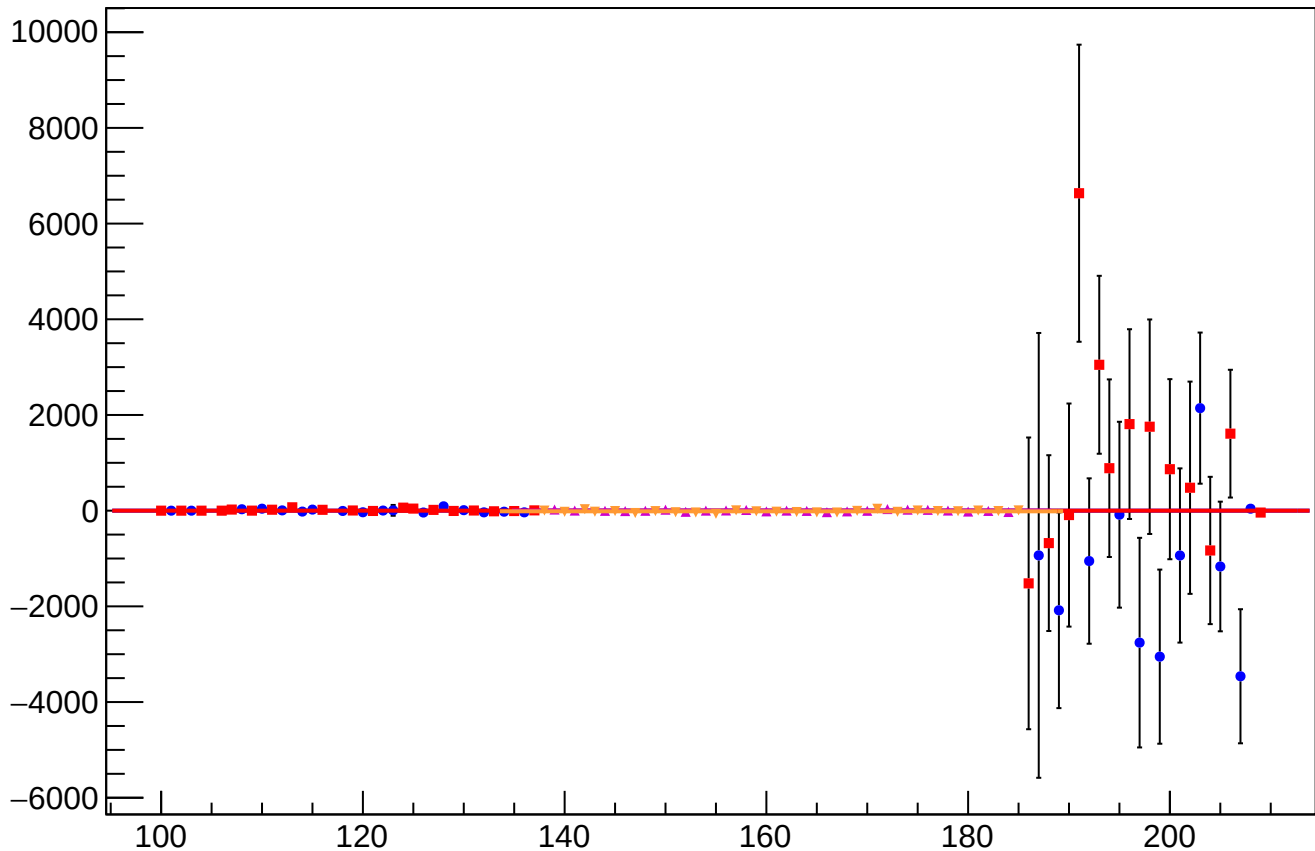
Right: 0.007+/-0.000 χ^2/NDF : 9814804.4/59

In: 0.007+/-0.000 χ^2/NDF :5360703.9/50

Out: 0.007+/-0.000 χ^2/NDF :5709798.7/56

All: 0.007+/-0.000 χ^2/NDF : 11070687.6/107

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2/NDF : 31.8/27

Left Out: -13.472 $\pm$ 2.796 χ^2/NDF : 58.5/24

Right Out: -0.003 $\pm$ 0.016 χ^2/NDF : 27.2/31

Left In: 0.489 $\pm$ 2.905 χ^2/NDF : 28.7/22

Left: -6.758 $\pm$ 2.015 χ^2/NDF : 99.2/47

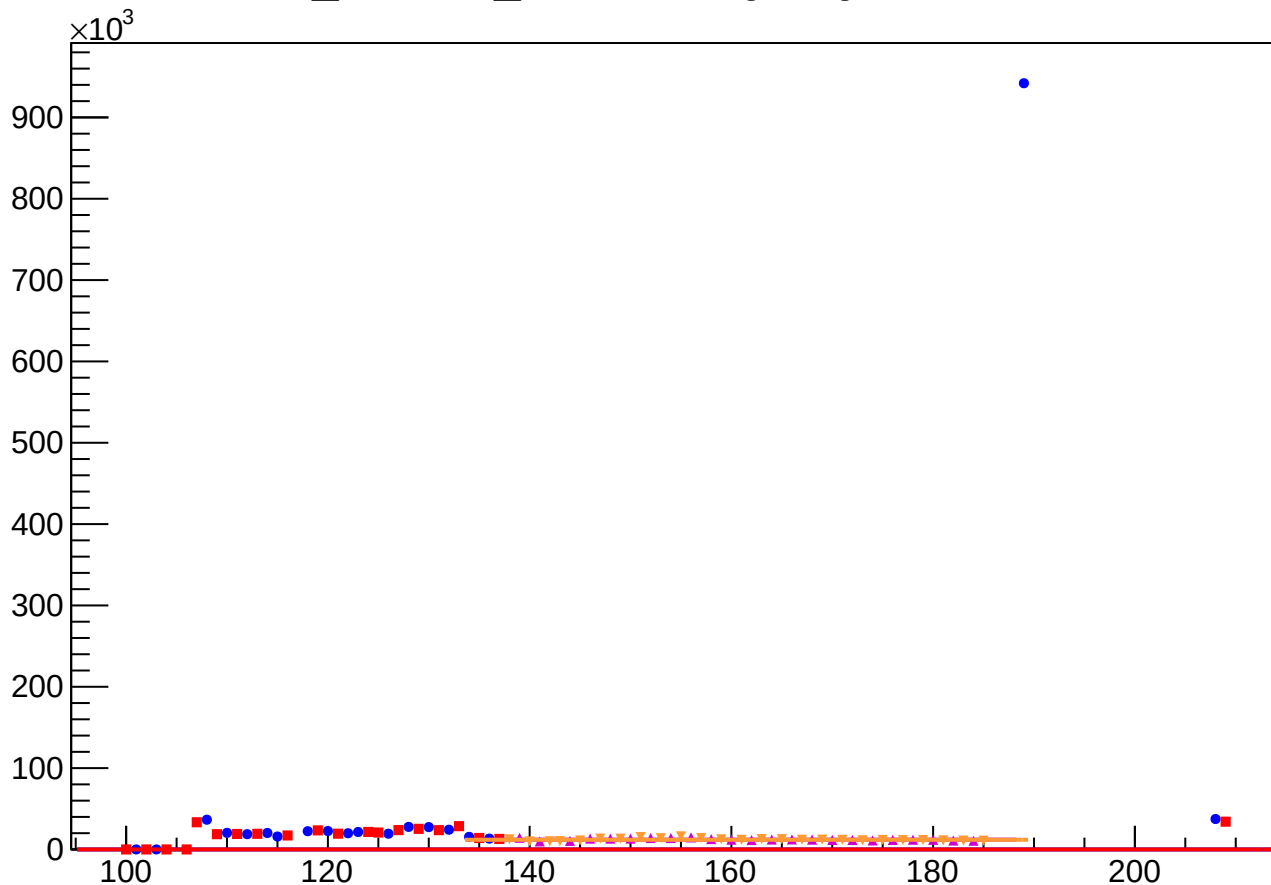
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 59.5/59

In: 0.013 $\pm$ 0.017 χ^2/NDF : 60.5/50

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 108.9/56

All: 0.004 $\pm$ 0.012 χ^2/NDF : 169.9/107

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.645 $\pm$ 0.012 χ^2/NDF : 12143051.8/18

Left Out: 11909.835 $\pm$ 1.977 χ^2/NDF : 475310.2/24

Right Out: 18.317 $\pm$ 0.011 χ^2/NDF : 12496565.6/19

Left In: 12064.321 $\pm$ 2.054 χ^2/NDF : 372586.0/22

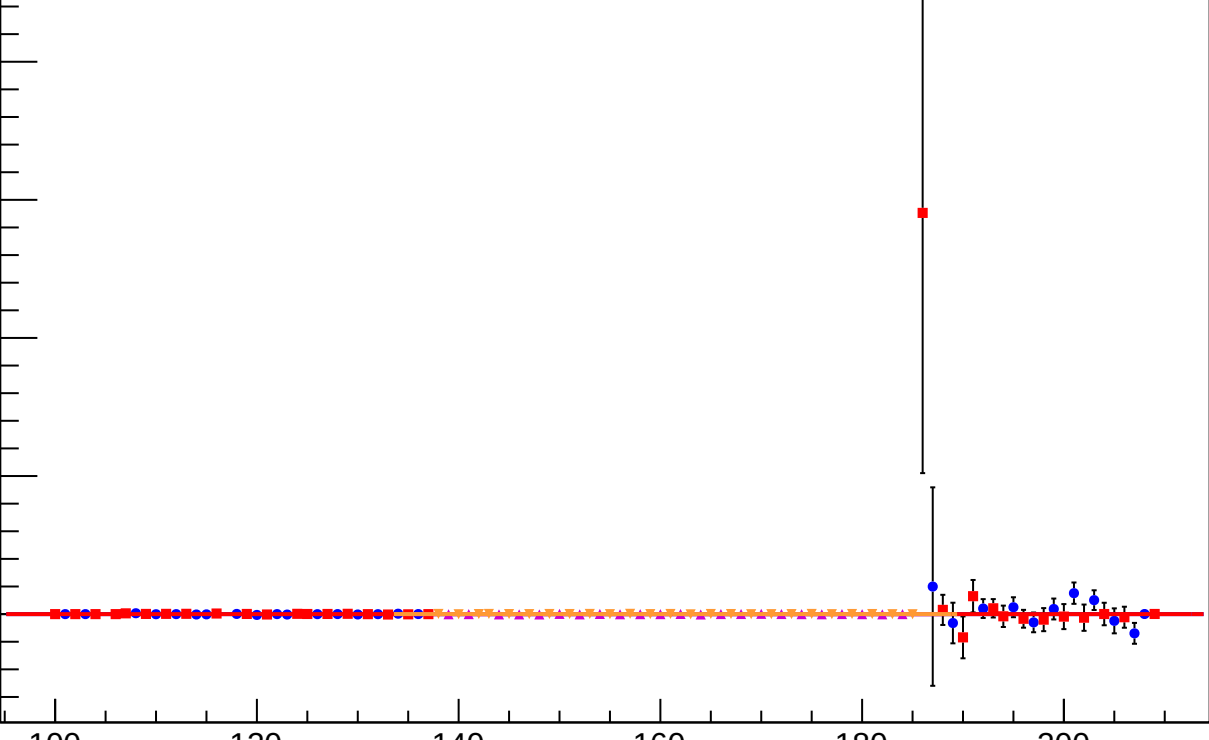
Left: 11984.125 $\pm$ 1.425 χ^2/NDF : 850831.6/47

Right: 18.468 $\pm$ 0.008 χ^2/NDF : 24640003.9/38

In: 19.074 $\pm$ 0.012 χ^2/NDF : 46893517.2/41

Out: 18.709 $\pm$ 0.011 χ^2/NDF : 49138973.3/44

All: 18.878 $\pm$ 0.008 χ^2/NDF : 96032966.1/86



Right In: 0.001+/-0.009 χ^2/NDF : 26.5/27

Left Out: 1.675 ± 1.021 $\chi^2/\text{NDF}: 17.9/24$

Right Out: -0.014 ± 0.009 χ^2/NDF : 25.5/31

Left In: -0.843+/-1.043 χ^2/NDF :35.7/22

Left: 0.443 ± 0.730 χ^2/NDF : 56.5/47

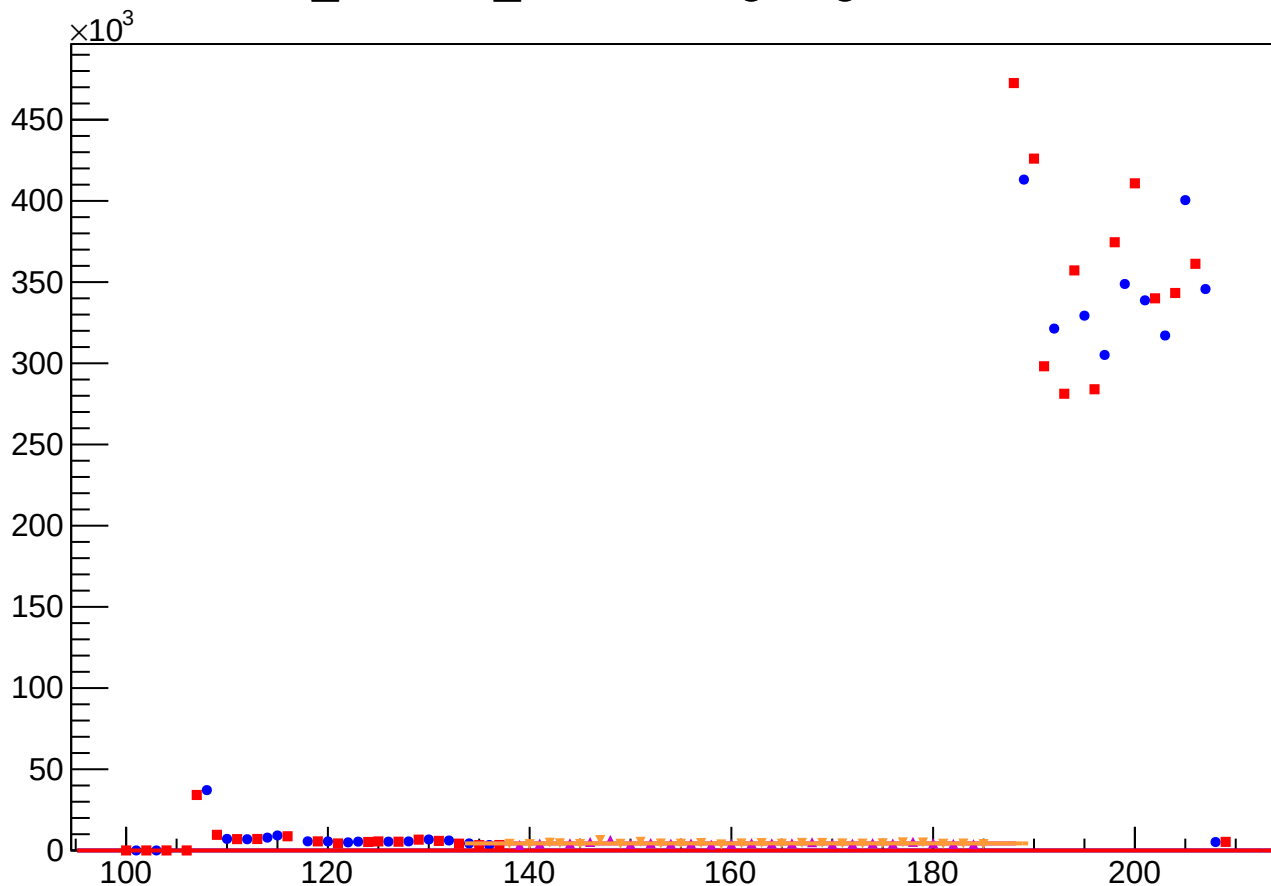
Right: -0.007 ± 0.006 χ^2/NDF : 53.4/59

ln: 0.001+/-0.009 χ^2 /NDF:62.8/50

Out: -0.014 ± 0.009 $\chi^2/\text{NDF}: 46.2/56$

All: -0.007 ± 0.006 χ^2/NDF : 110.3/107

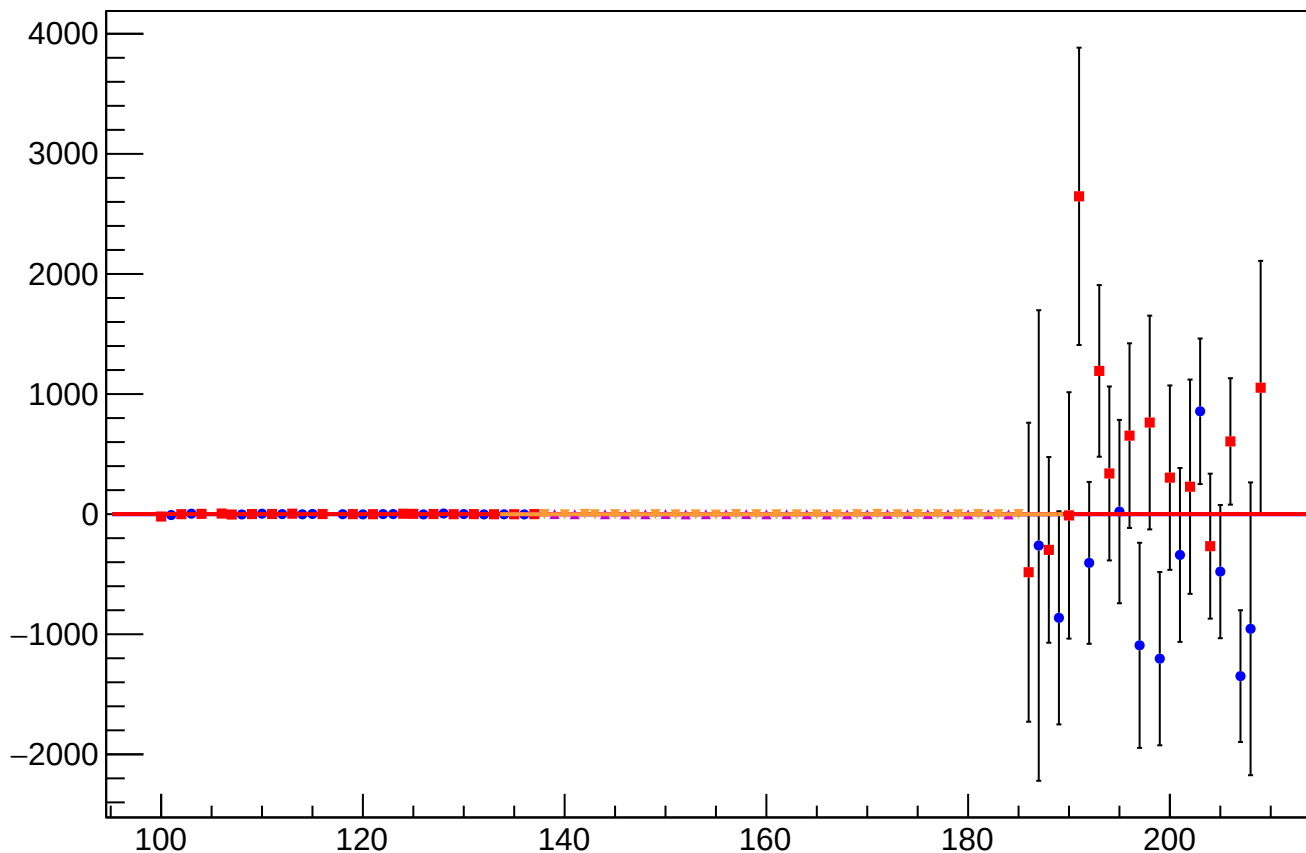
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.949 ± 0.007 χ^2/NDF : 25641312.9/26
 Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24
 Right Out: 9.866 ± 0.006 χ^2/NDF : 27332873.8/30
 Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47
 Right: 9.905 ± 0.004 χ^2/NDF : 52974273.2/57
 In: 10.284 ± 0.007 χ^2/NDF : 60237169.7/49
 Out: 10.177 ± 0.006 χ^2/NDF : 63862411.3/55
 All: 10.227 ± 0.004 χ^2/NDF : 124099723.3/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.704 ± 0.485 χ^2/NDF : 37.8/27

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.763 ± 0.502 χ^2/NDF : 23.8/31

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

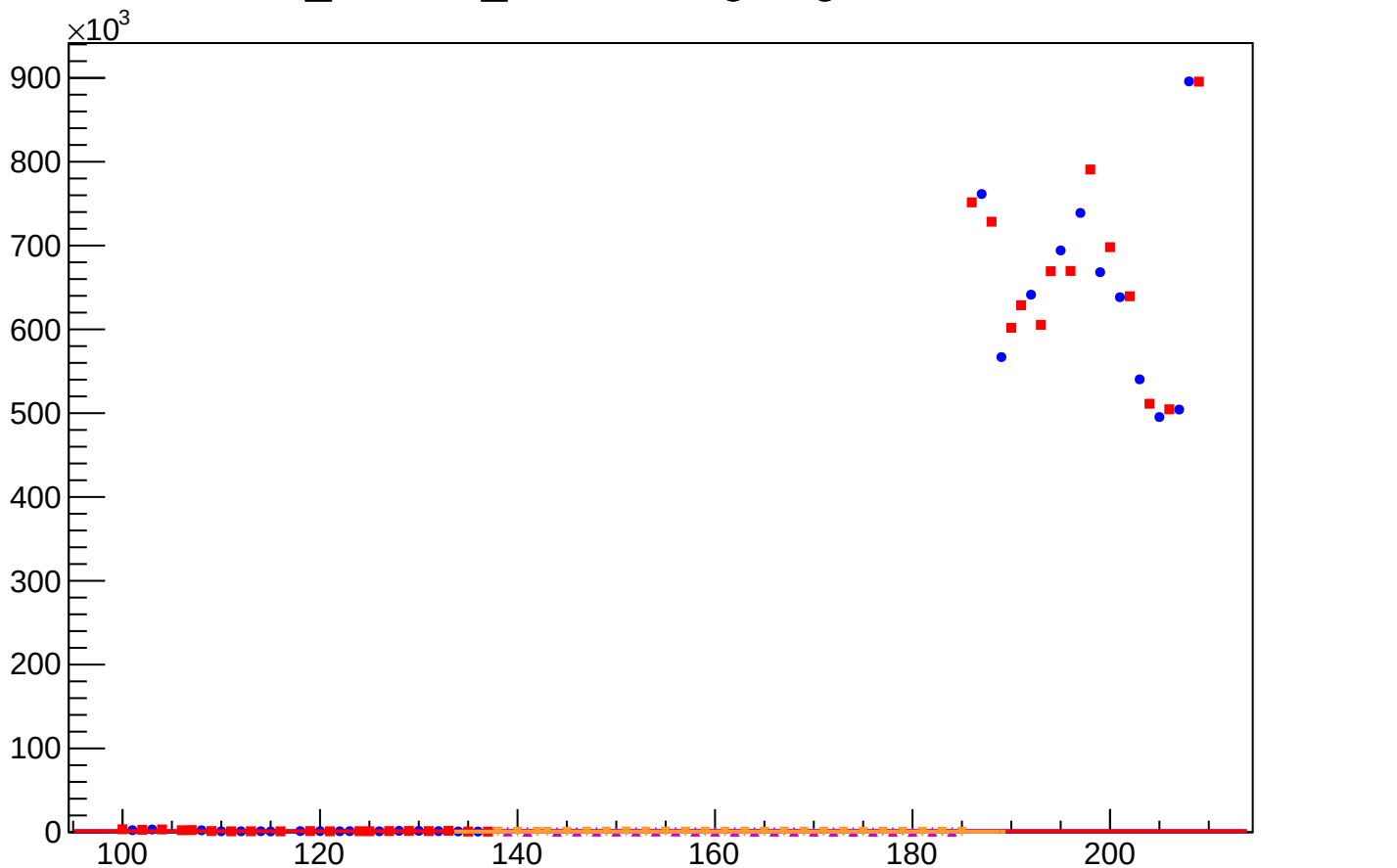
Right: 0.004 ± 0.349 χ^2/NDF : 66.1/59

In: -0.059 ± 0.161 χ^2/NDF : 69.1/50

Out: -0.626 ± 0.156 χ^2/NDF : 90.7/56

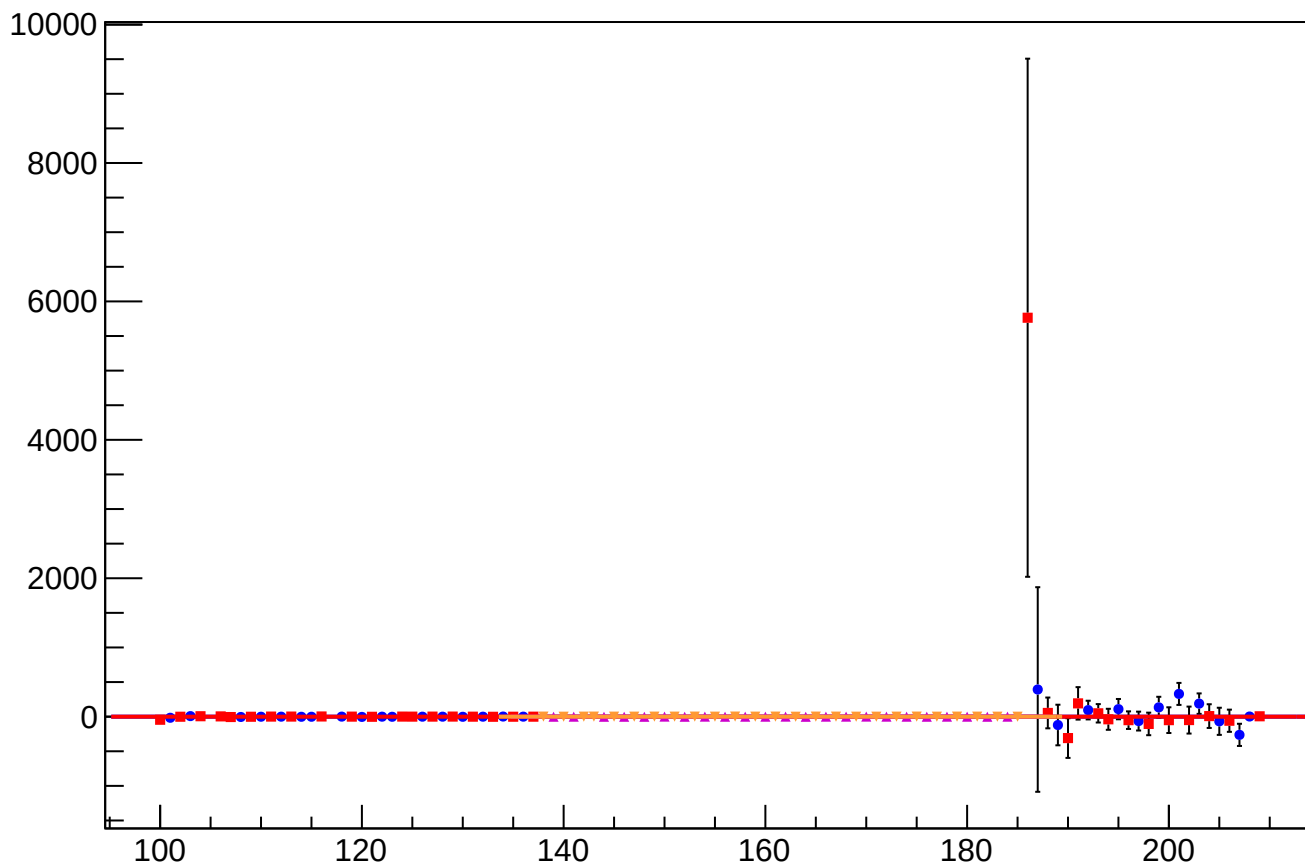
All: -0.350 ± 0.112 χ^2/NDF : 166.1/107

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.099+/-0.343	χ^2/NDF : 16666847.8/27	Left: 703.766+/-0.084	χ^2/NDF : 732052.1/47
Left Out: 700.797+/-0.116	χ^2/NDF : 392521.4/24	Right: 1208.370+/-0.247	χ^2/NDF : 35511762.6/59
Right Out: 1252.600+/-0.355	χ^2/NDF : 18814913.6/31	In: 757.361+/-0.114	χ^2/NDF : 18608013.1/50
Left In: 706.950+/-0.120	χ^2/NDF : 338177.1/22	Out: 754.170+/-0.110	χ^2/NDF : 21389412.4/56
		All: 755.721+/-0.079	χ^2/NDF : 39997831.5/10

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.052 ± 0.270 χ^2/NDF : 32.1/27

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.229 ± 0.264 χ^2/NDF : 27.3/31

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

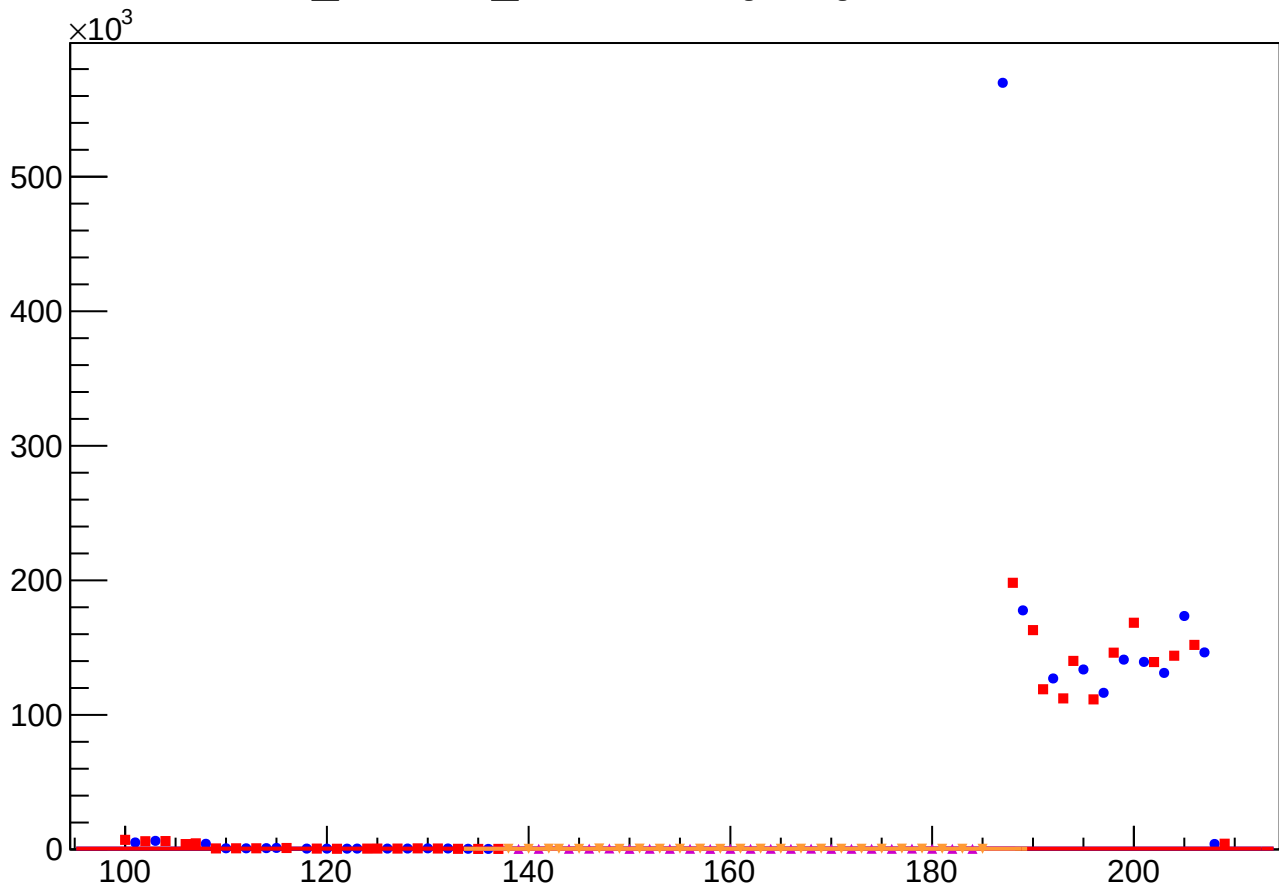
Right: -0.143 ± 0.189 χ^2/NDF : 59.6/59

In: -0.104 ± 0.114 χ^2/NDF : 67.1/50

Out: 0.154 ± 0.111 χ^2/NDF : 47.4/56

All: 0.028 ± 0.080 χ^2/NDF : 117.2/107

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 620.998 $\pm$ 0.191 χ^2 /NDF: 17829935.4/27

Left Out: 522.416 $\pm$ 0.087 χ^2 /NDF:331573.1/24

Right Out: 613.506 $\pm$ 0.187 χ^2 /NDF: 19393344.7/30

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

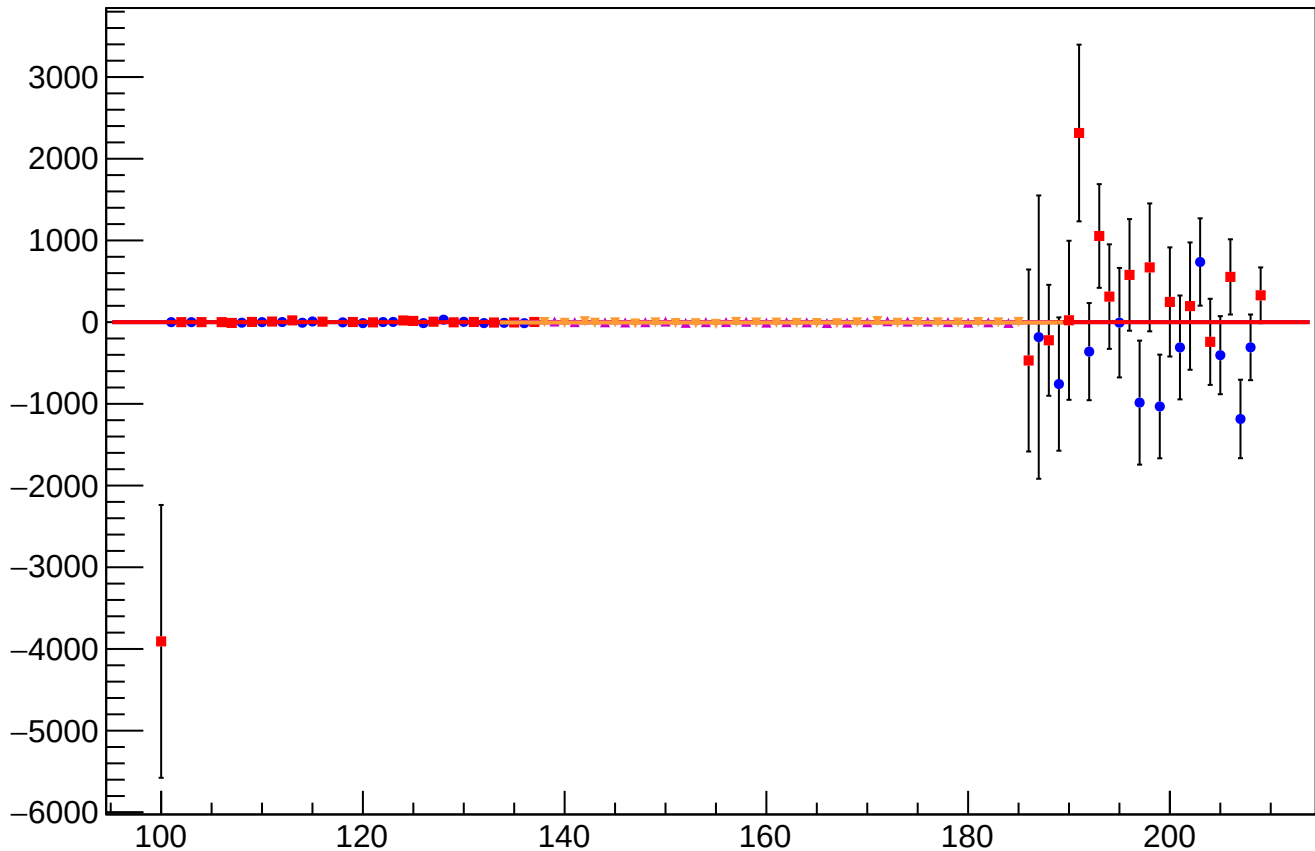
Right: 617.172 $\pm$ 0.134 χ^2 /NDF: 37224065.4/58

In: 537.844 $\pm$ 0.080 χ^2 /NDF:18504925.0/50

Out: 538.502 $\pm$ 0.079 χ^2 /NDF:19920263.5/55

All: 538.181 $\pm$ 0.056 χ^2 /NDF: 38425222.8/10

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 30.7/27

Left Out: -4.474 ± 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 28.9/31

Left In: 0.193 ± 0.990 χ^2/NDF : 29.2/22

Left: -2.224 ± 0.688 χ^2/NDF : 99.0/47

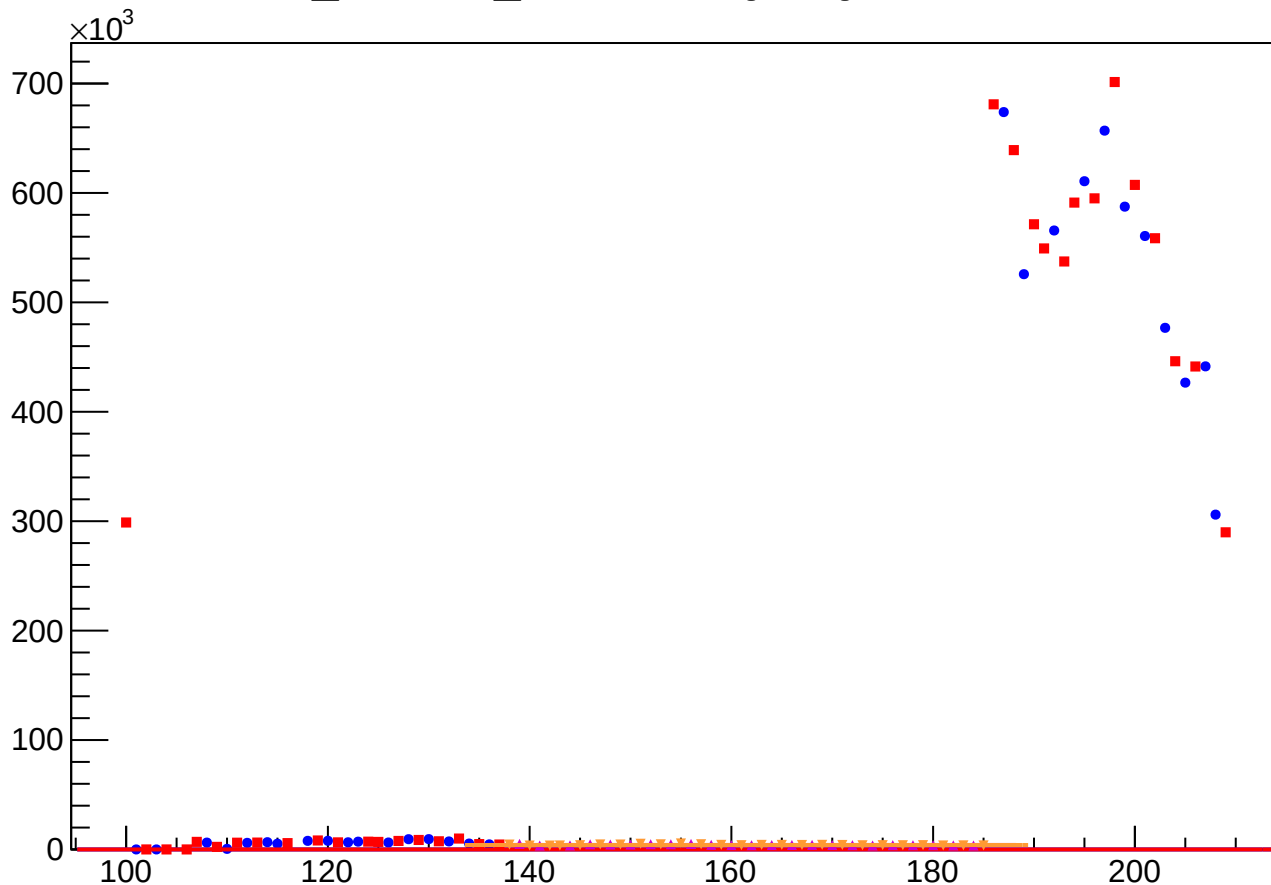
Right: 0.004 ± 0.014 χ^2/NDF : 62.5/59

In: -0.022 ± 0.021 χ^2/NDF : 60.0/50

Out: 0.025 ± 0.020 χ^2/NDF : 109.3/56

All: 0.003 ± 0.014 χ^2/NDF : 171.9/107

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.342 $\pm$ 0.015 χ^2/NDF : 25723353.4/27

Left Out: 4074.257 $\pm$ 0.676 χ^2/NDF : 416916.0/24

Right Out: 17.273 $\pm$ 0.014 χ^2/NDF : 28125584.0/31

Left In: 4113.744 $\pm$ 0.700 χ^2/NDF : 354965.8/22

Left: 4093.298 $\pm$ 0.486 χ^2/NDF : 773528.6/47

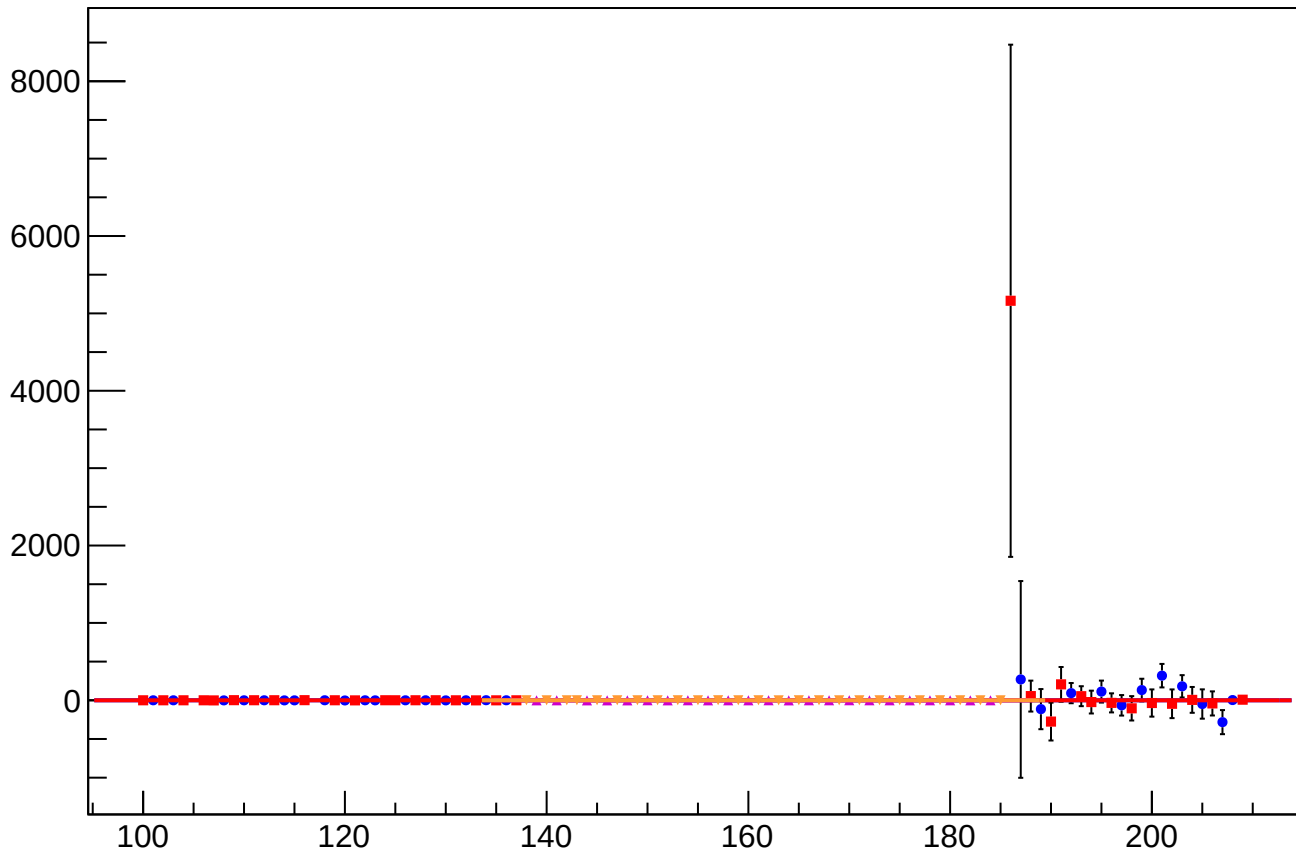
Right: 17.306 $\pm$ 0.010 χ^2/NDF : 53848948.7/59

In: 19.148 $\pm$ 0.015 χ^2/NDF : 60292491.2/50

Out: 19.010 $\pm$ 0.014 χ^2/NDF : 64578463.8/56

All: 19.076 $\pm$ 0.010 χ^2/NDF : 124871000.8/10

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.002 χ^2/NDF : 27.3/27

Left Out: 0.151+/-0.076 χ^2/NDF : 16.8/24

Right Out: -0.001+/-0.002 χ^2/NDF : 25.3/31

Left In: -0.075+/-0.078 χ^2/NDF : 34.8/22

Left: 0.041+/-0.055 χ^2/NDF : 55.8/47

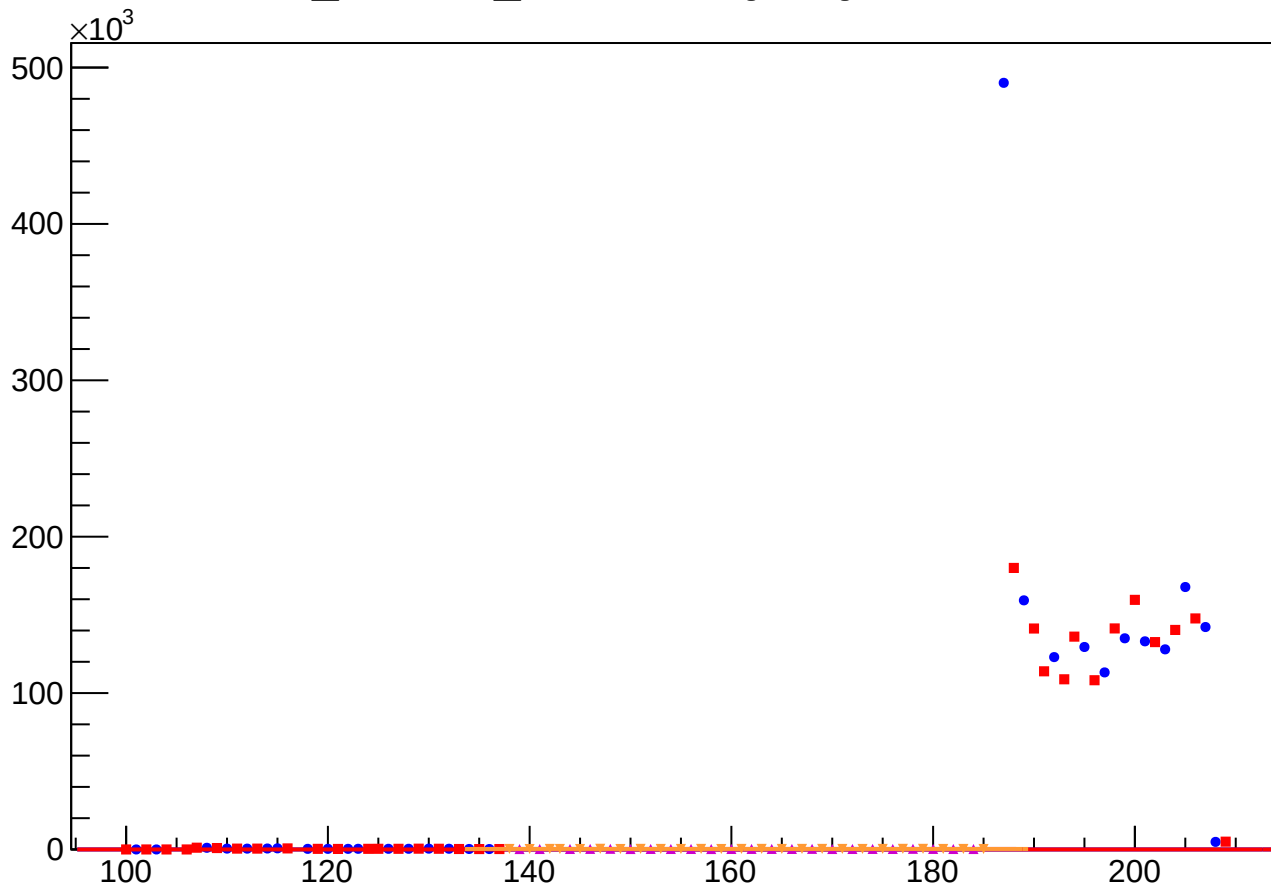
Right: -0.000+/-0.001 χ^2/NDF : 52.7/59

In: 0.000+/-0.002 χ^2/NDF : 63.0/50

Out: -0.001+/-0.002 χ^2/NDF : 46.0/56

All: -0.000+/-0.001 χ^2/NDF : 109.1/107

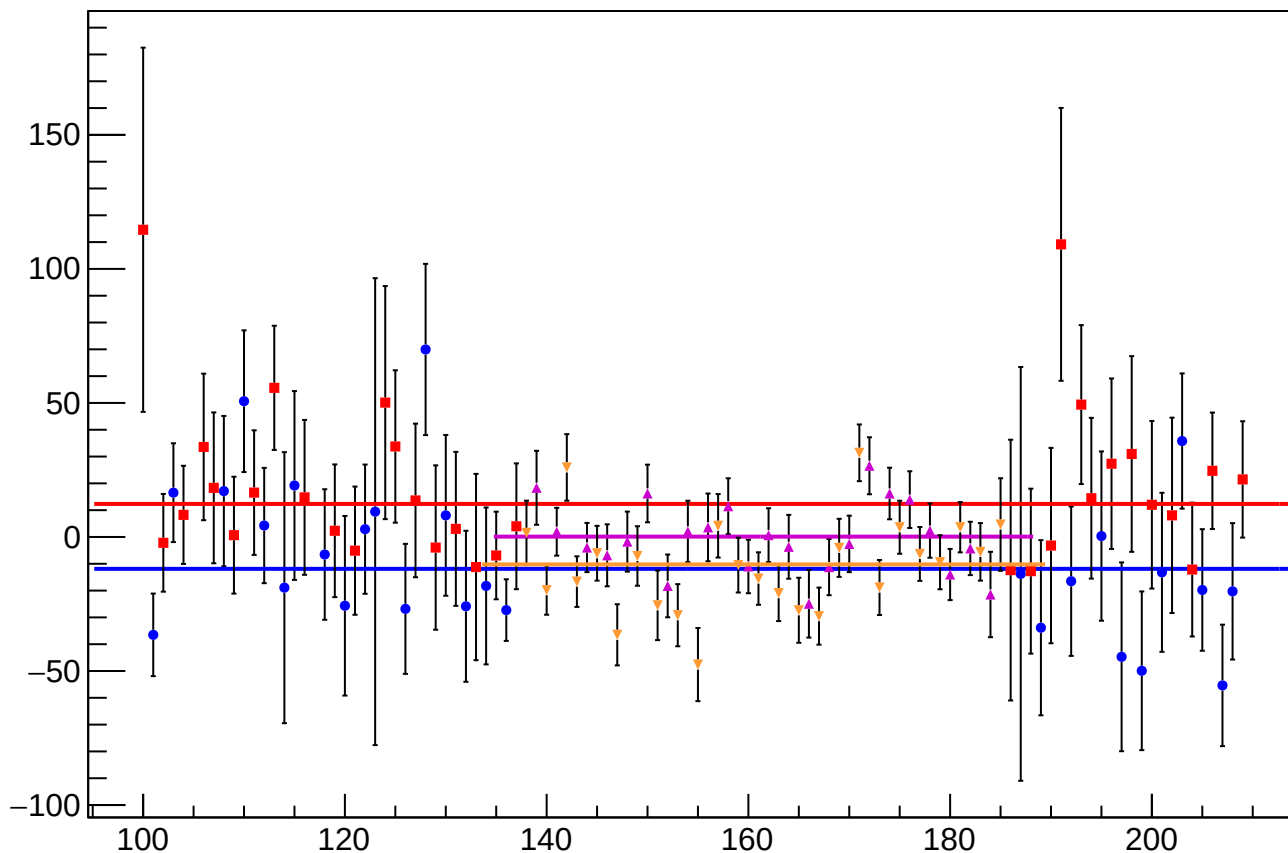
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 26025254.3/27
 Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF:350046.8/24
 Right Out: 1.729 $\pm$ 0.001 χ^2 /NDF: 27100753.6/30
 Left In: 325.201 $\pm$ 0.055 χ^2 /NDF:428069.7/22

Left: 325.339 $\pm$ 0.039 χ^2 /NDF: 778128.6/47
 Right: 1.715 $\pm$ 0.001 χ^2 /NDF: 53126235.5/58
 In: 1.914 $\pm$ 0.001 χ^2 /NDF:60428572.9/50
 Out: 1.938 $\pm$ 0.001 χ^2 /NDF:63408441.0/55
 All: 1.926 $\pm$ 0.001 χ^2 /NDF: 123837152.3/106

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -11.892 ± 4.717 χ^2/NDF : 33.7/27

Left Out: -10.235 ± 2.167 χ^2/NDF : 58.0/24

Right Out: 12.332 ± 4.709 χ^2/NDF : 20.1/31

Left In: 0.130 ± 2.242 χ^2/NDF : 29.8/22

Left: -5.230 ± 1.558 χ^2/NDF : 98.9/47

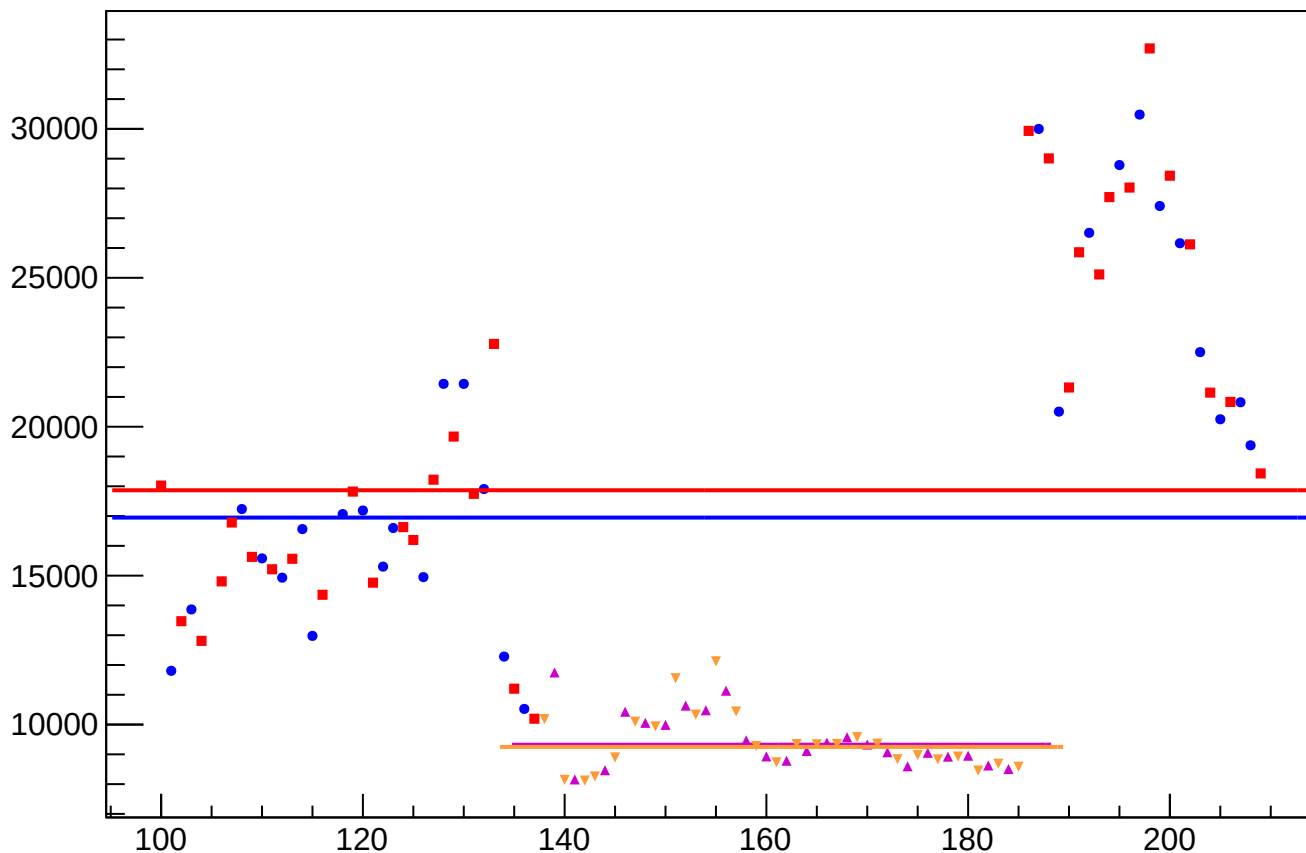
Right: 0.240 ± 3.333 χ^2/NDF : 67.0/59

In: -2.086 ± 2.025 χ^2/NDF : 68.9/50

Out: -6.292 ± 1.968 χ^2/NDF : 97.0/56

All: -4.249 ± 1.411 χ^2/NDF : 168.1/107

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16949.110 $\pm$ 3.335 χ^2 /NDF: 2665464.9/27

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF:332003.4/24

Right Out: 17867.075 $\pm$ 3.330 χ^2 /NDF: 2755164.7/31

Left In: 9325.112 $\pm$ 1.585 χ^2 /NDF:280927.7/22

Left: 9285.937 $\pm$ 1.102 χ^2 /NDF: 614111.7/47

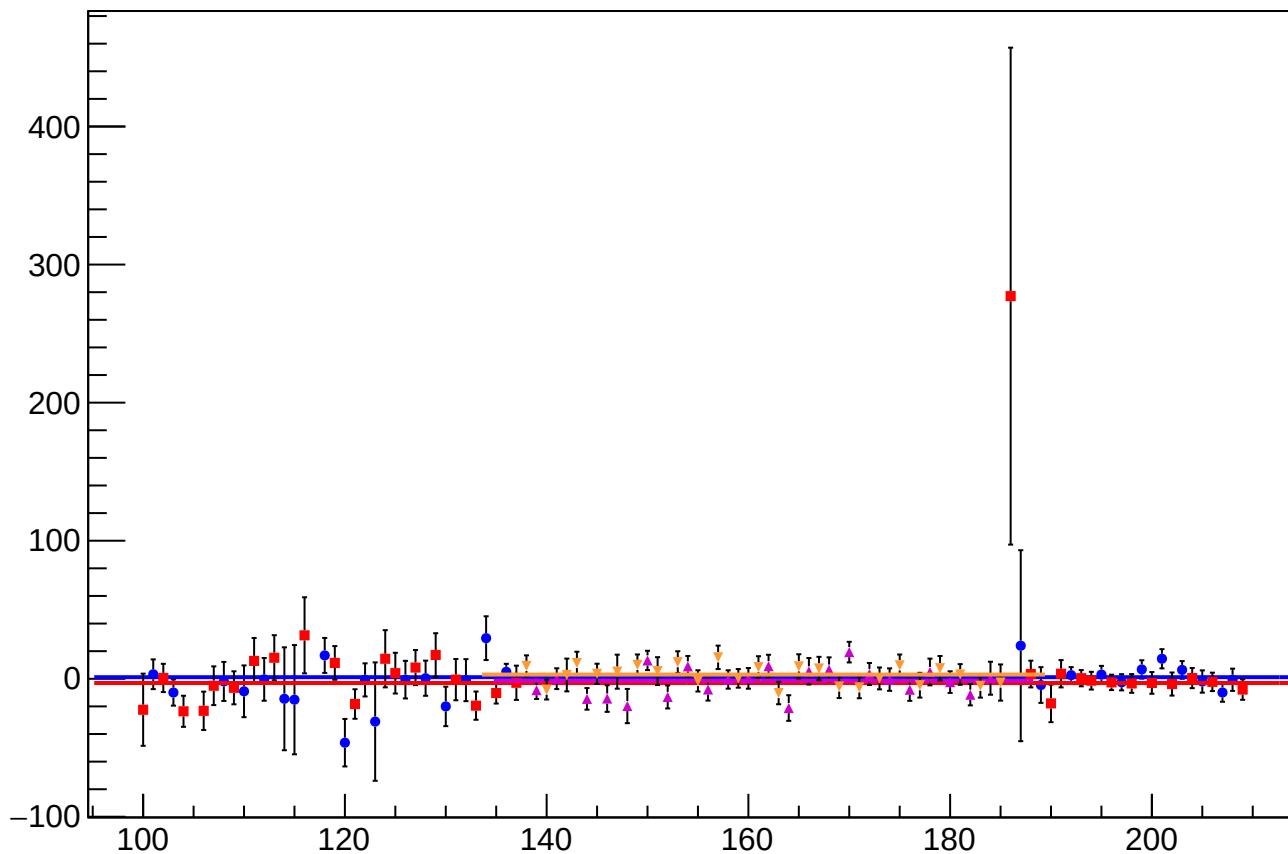
Right: 17408.847 $\pm$ 2.357 χ^2 /NDF: 5458563.1/59

In: 10730.252 $\pm$ 1.432 χ^2 /NDF:7208071.2/50

Out: 10754.813 $\pm$ 1.392 χ^2 /NDF:8614496.3/56

All: 10742.882 $\pm$ 0.998 χ^2 /NDF: 15822718.7

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.145 ± 1.781 $\chi^2/\text{NDF}: 26.6/27$

Left Out: 3.062 ± 1.659 $\chi^2/\text{NDF}: 18.3/24$

Right Out: -3.047 ± 1.719 $\chi^2/\text{NDF}: 25.9/31$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

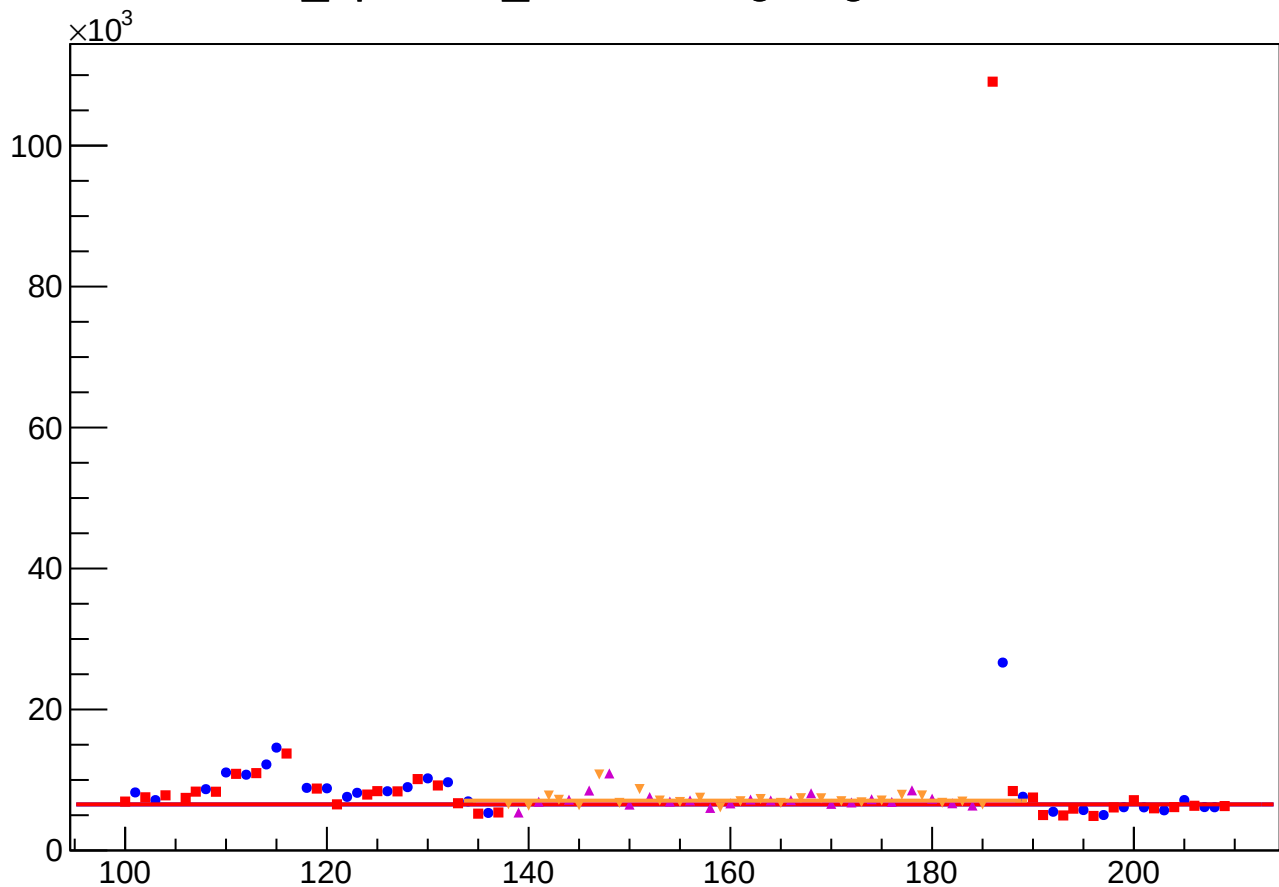
Right: -1.025 ± 1.237 $\chi^2/\text{NDF}: 55.3/59$

In: -0.189 ± 1.227 $\chi^2/\text{NDF}: 63.0/50$

Out: 0.115 ± 1.194 $\chi^2/\text{NDF}: 50.7/56$

All: -0.032 ± 0.856 $\chi^2/\text{NDF}: 113.7/107$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6525.175 ± 1.259 $\chi^2/\text{NDF}: 1525085.8/27$

Left Out: 7066.826 ± 1.173 $\chi^2/\text{NDF}: 387449.8/24$

Right Out: 6540.594 ± 1.215 $\chi^2/\text{NDF}: 2103892.9/31$

Left In: 7000.532 ± 1.197 $\chi^2/\text{NDF}: 550029.3/22$

Left: 7034.358 ± 0.838 $\chi^2/\text{NDF}: 939043.5/47$

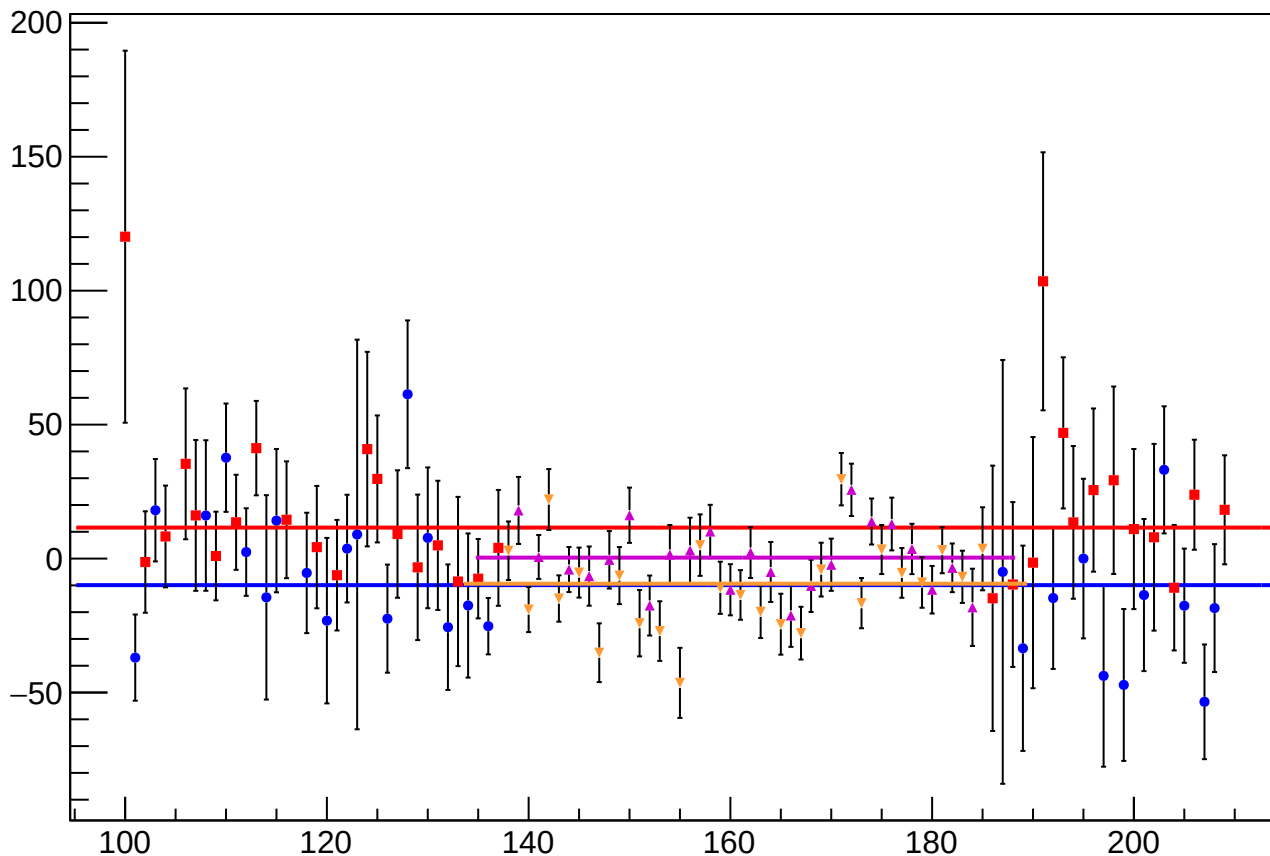
Right: 6533.158 ± 0.874 $\chi^2/\text{NDF}: 3629056.3/59$

In: 6774.824 ± 0.868 $\chi^2/\text{NDF}: 2149964.4/50$

Out: 6813.029 ± 0.844 $\chi^2/\text{NDF}: 2588412.8/56$

All: 6794.455 ± 0.605 $\chi^2/\text{NDF}: 4739373.4/10$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -9.915 ± 4.305 χ^2/NDF : 34.6/27

Left Out: -9.376 ± 2.018 χ^2/NDF : 58.4/24

Right Out: 11.562 ± 4.261 χ^2/NDF : 19.5/31

Left In: 0.353 ± 2.092 χ^2/NDF : 29.6/22

Left: -4.688 ± 1.452 χ^2/NDF : 99.3/47

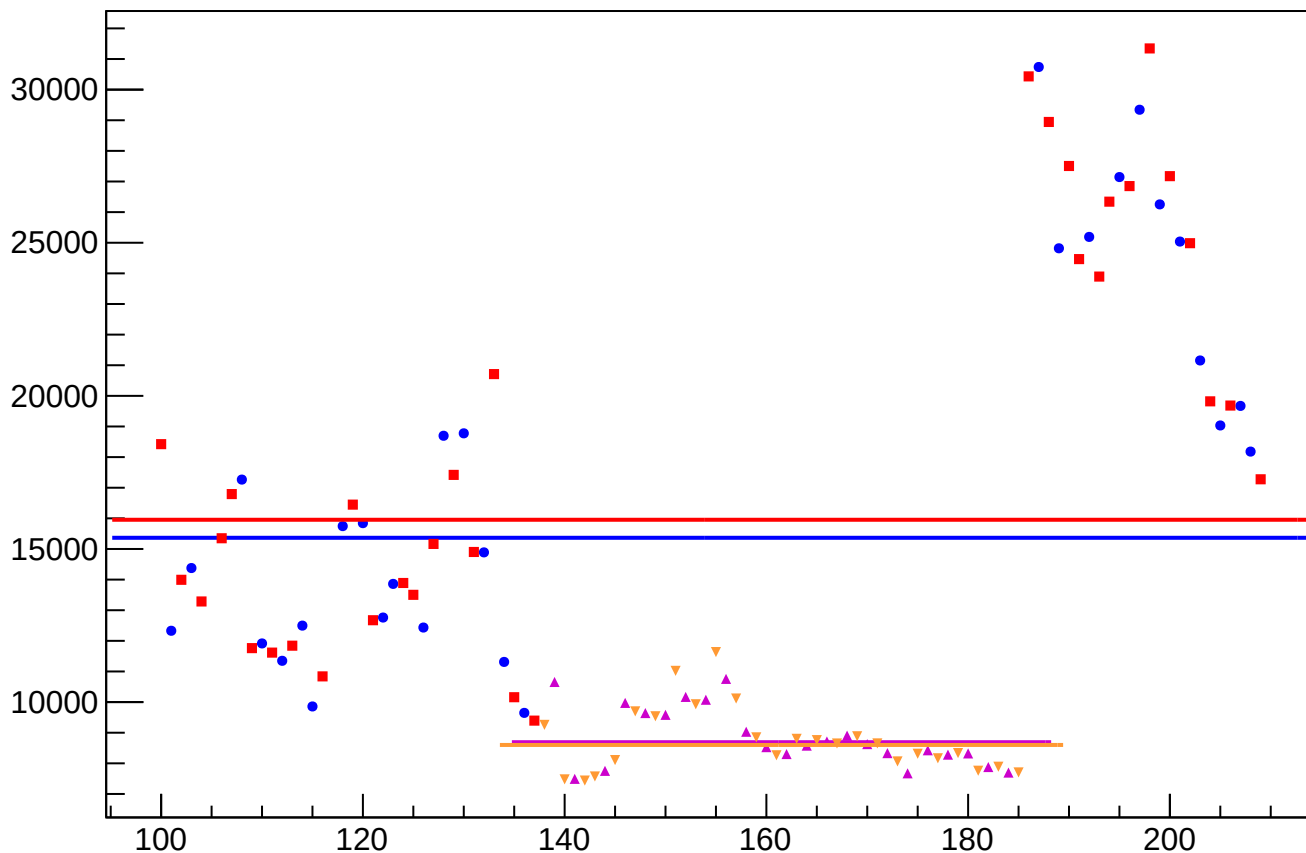
Right: 0.935 ± 3.028 χ^2/NDF : 66.7/59

In: -1.608 ± 1.882 χ^2/NDF : 68.9/50

Out: -5.541 ± 1.824 χ^2/NDF : 97.7/56

All: -3.636 ± 1.310 χ^2/NDF : 168.8/107

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15365.536 $\pm$ 3.044 χ^2 /NDF: 3077688.9/27

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF:438229.4/24

Right Out: 15954.042 $\pm$ 3.013 χ^2 /NDF: 3483476.4/31

Left In: 8690.209 $\pm$ 1.479 χ^2 /NDF:370834.1/22

Left: 8643.707 $\pm$ 1.027 χ^2 /NDF: 810970.4/47

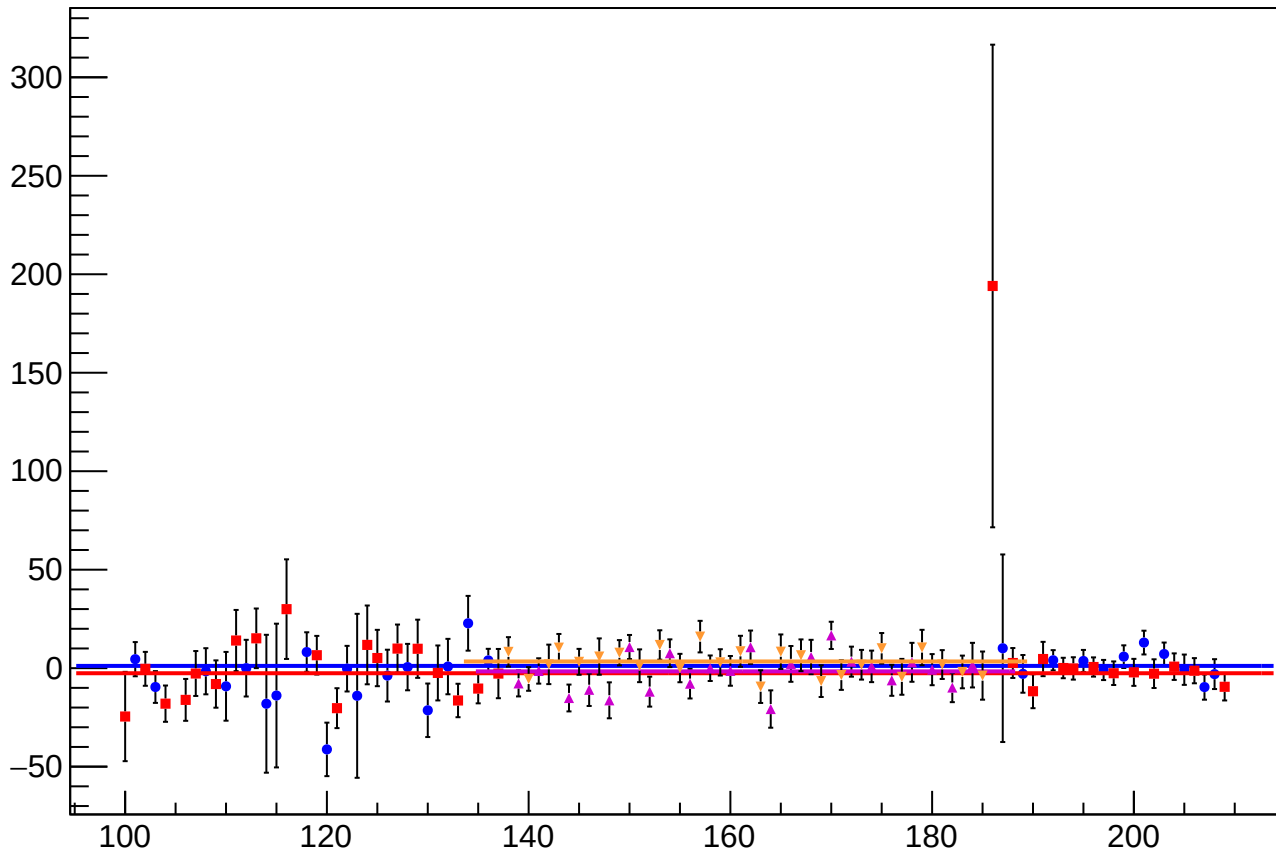
Right: 15662.838 $\pm$ 2.141 χ^2 /NDF: 6580044.6/59

In: 9965.524 $\pm$ 1.331 χ^2 /NDF:7338127.4/50

Out: 9947.466 $\pm$ 1.289 χ^2 /NDF:8787613.9/56

All: 9956.211 $\pm$ 0.926 χ^2 /NDF: 16125836.3/112

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.149 ± 1.597 χ^2/NDF : 28.4/27

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -2.572 ± 1.521 χ^2/NDF : 27.1/31

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

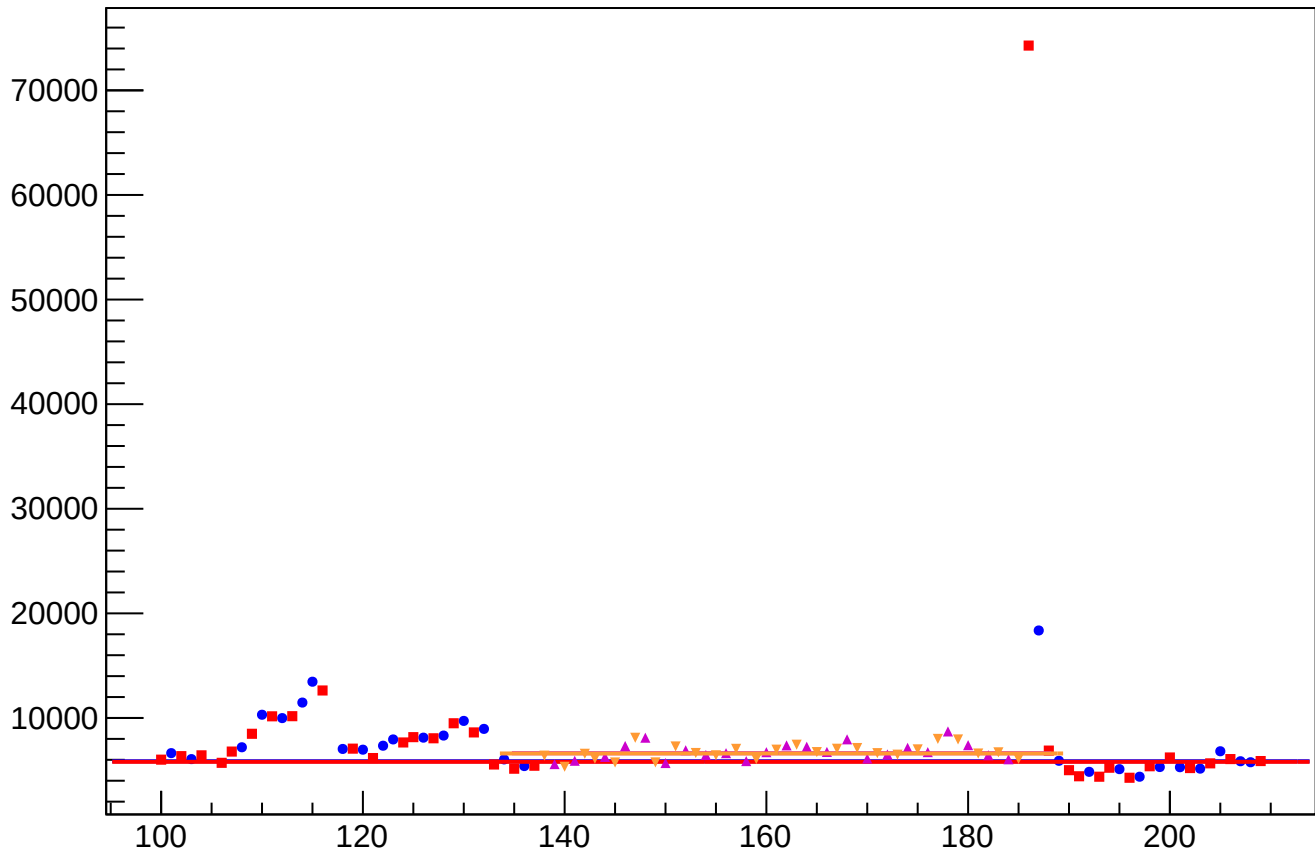
Right: -0.803 ± 1.101 χ^2/NDF : 58.3/59

In: -0.237 ± 1.130 χ^2/NDF : 63.4/50

Out: 0.359 ± 1.086 χ^2/NDF : 51.5/56

All: 0.073 ± 0.783 χ^2/NDF : 115.0/107

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5865.504+/-1.130 χ^2/NDF : 1486394.6/27

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5807.423+/-1.075 χ^2/NDF : 2133213.3/31

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

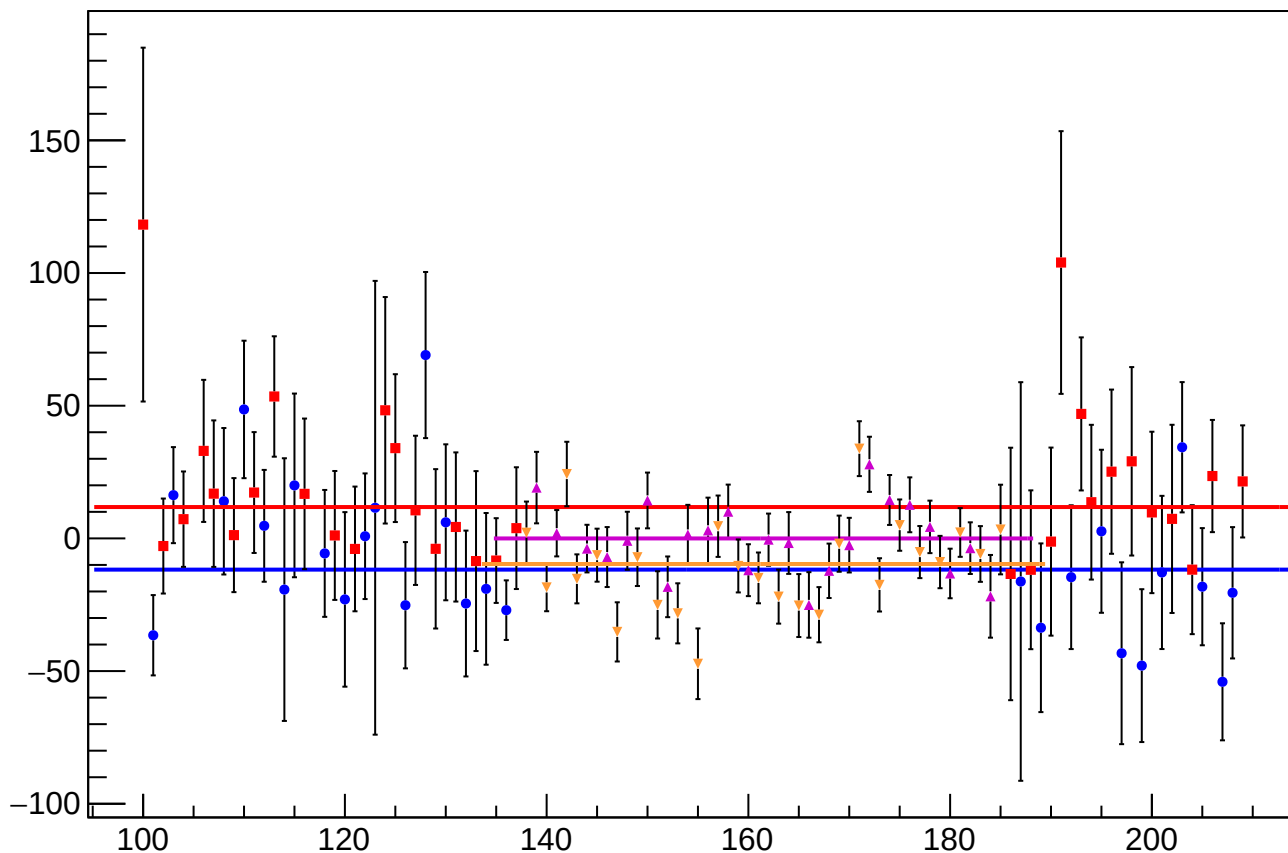
Right: 5835.037+/-0.779 χ^2/NDF : 3620994.8/59

In: 6246.692+/-0.799 χ^2/NDF : 2144660.4/50

Out: 6199.556+/-0.768 χ^2/NDF : 2802778.5/56

All: 6222.179+/-0.554 χ^2/NDF : 4949248.2/10

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -11.769 $\pm$ 4.613 χ^2/NDF : 33.4/27

Left Out: -9.649 $\pm$ 2.118 χ^2/NDF : 59.8/24

Right Out: 11.813 $\pm$ 4.606 χ^2/NDF : 20.0/31

Left In: -0.019 $\pm$ 2.192 χ^2/NDF : 30.6/22

Left: -4.999 $\pm$ 1.523 χ^2/NDF : 100.4/47

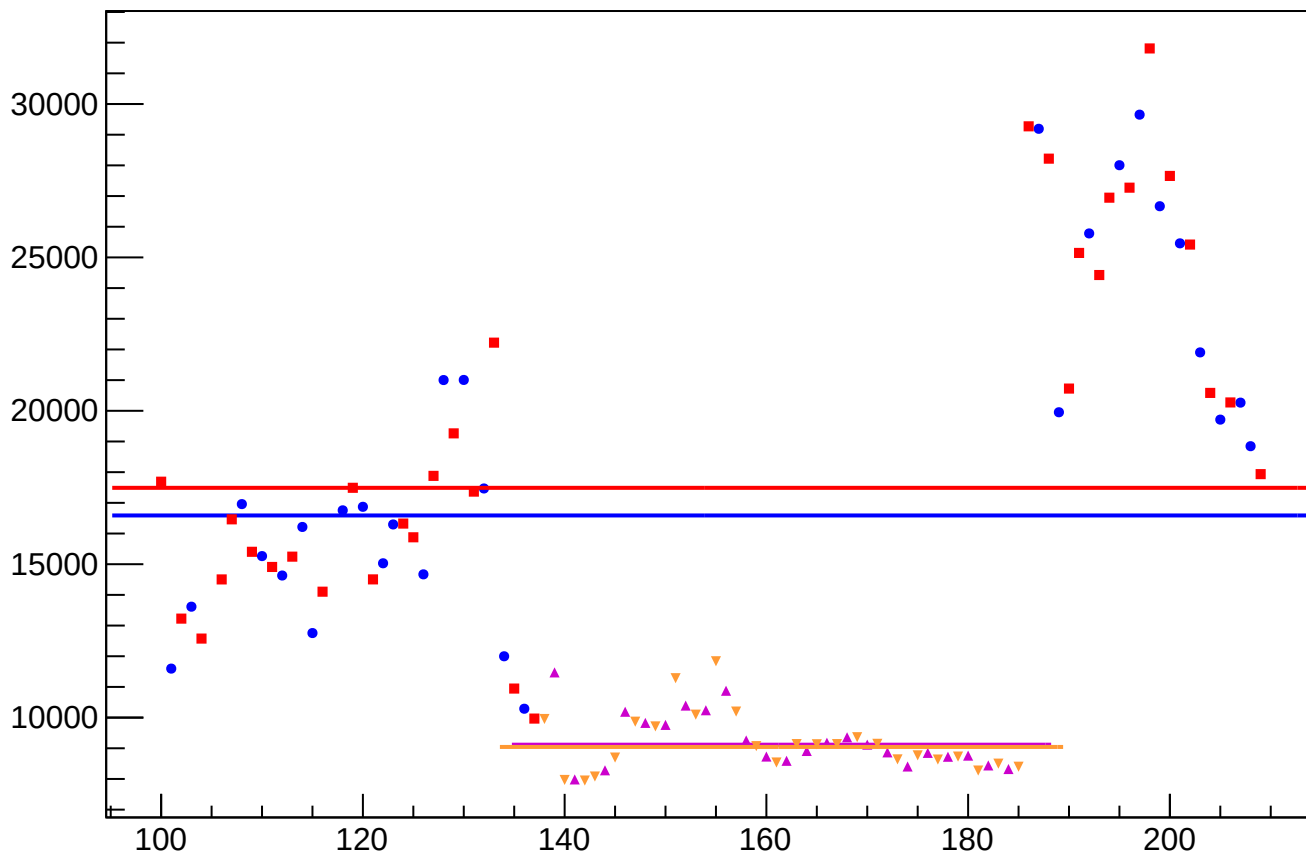
Right: 0.041 $\pm$ 3.259 χ^2/NDF : 66.5/59

In: -2.183 $\pm$ 1.980 χ^2/NDF : 69.3/50

Out: -5.902 $\pm$ 1.924 χ^2/NDF : 97.7/56

All: -4.096 $\pm$ 1.380 χ^2/NDF : 168.9/107

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16588.878+/-3.262 χ^2/NDF : 2625267.4/27

Left Out: 9043.485+/-1.498 χ^2/NDF : 328192.2/24

Right Out: 17489.449+/-3.257 χ^2/NDF : 2708207.4/31

Left In: 9116.921+/-1.550 χ^2/NDF : 277594.8/22

Left: 9078.947+/-1.077 χ^2/NDF : 606947.8/47

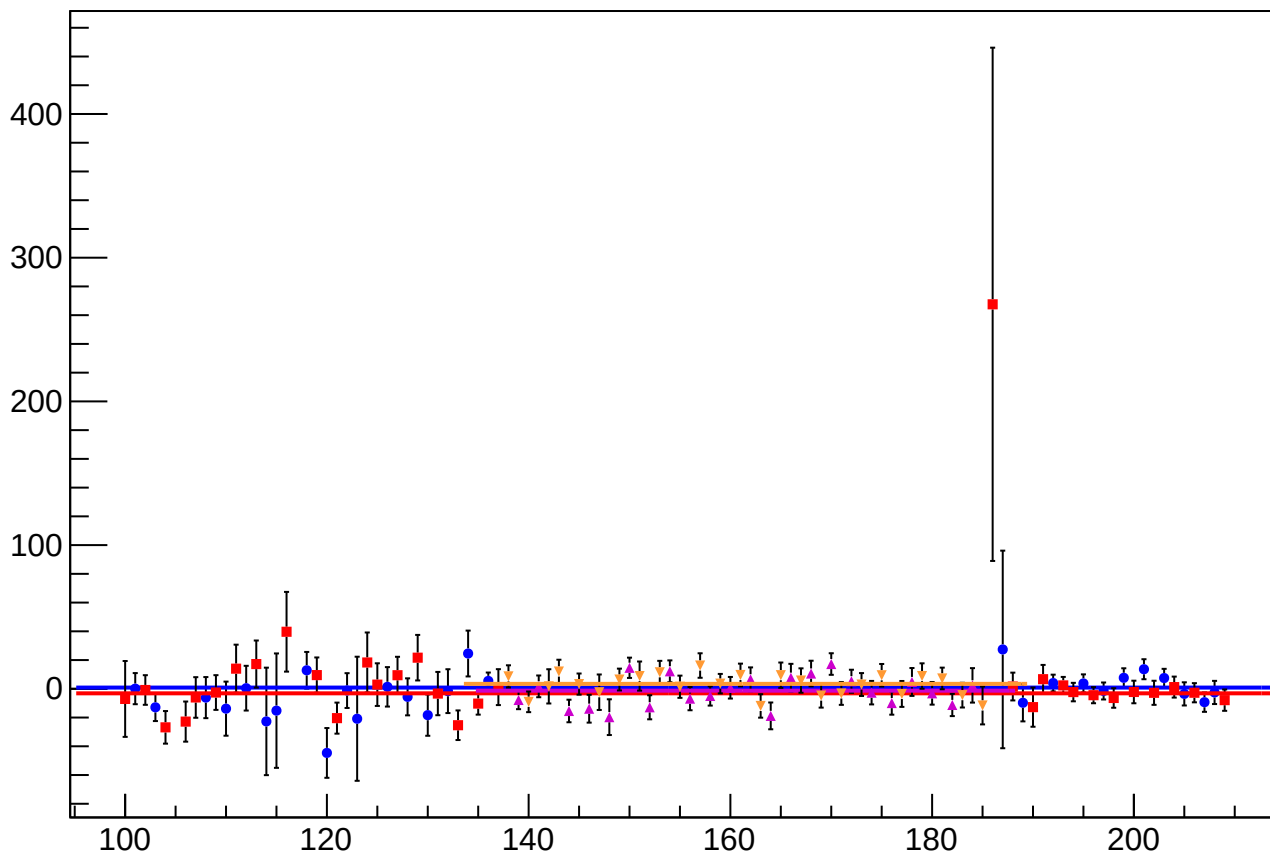
Right: 17039.867+/-2.305 χ^2/NDF : 5371643.5/59

In: 10493.171+/-1.400 χ^2/NDF : 7183244.2/50

Out: 10517.918+/-1.361 χ^2/NDF : 8587232.6/56

All: 10505.895+/-0.976 χ^2/NDF : 15770637.5

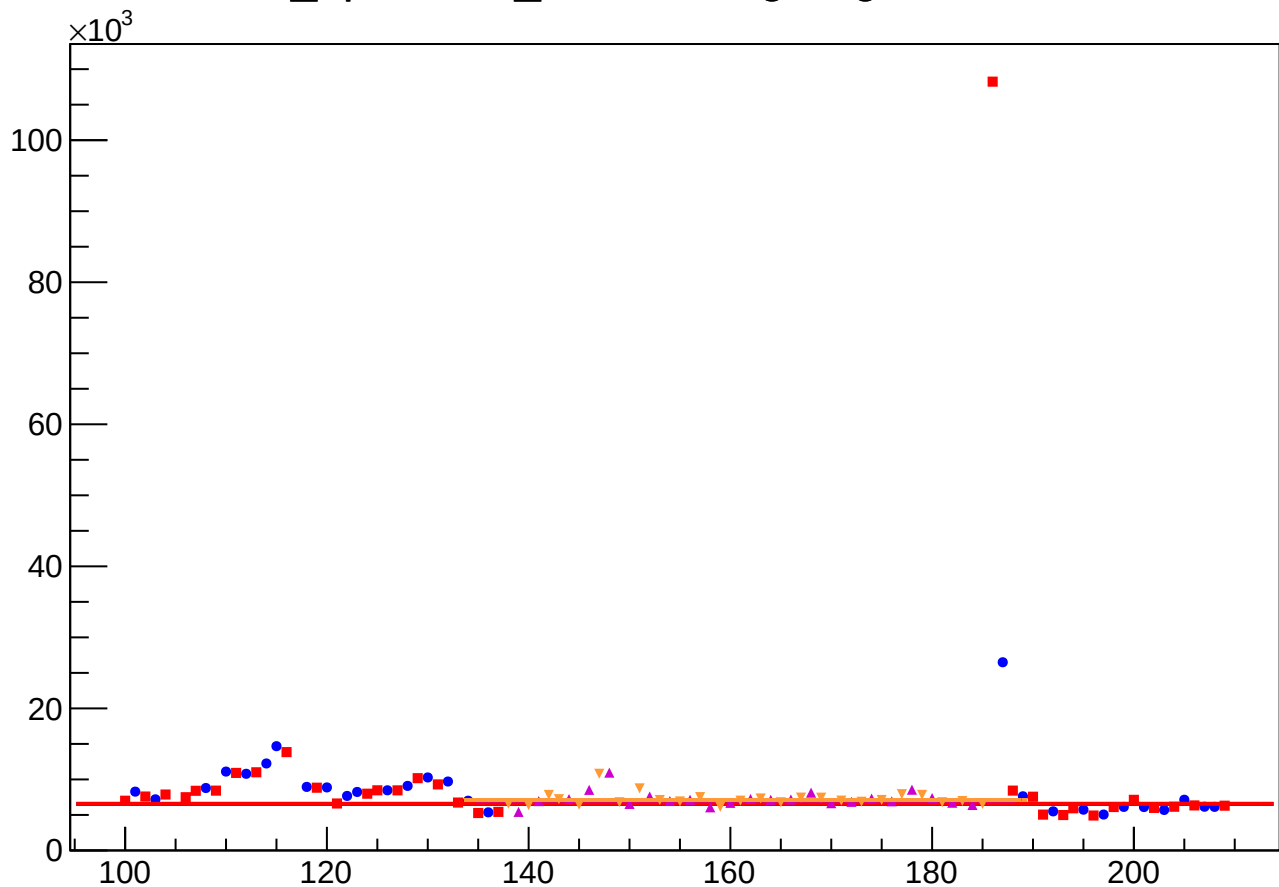
diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.854 ± 1.787 $\chi^2/\text{NDF}: 26.2/27$
Left Out: 3.439 ± 1.666 $\chi^2/\text{NDF}: 18.9/24$
Right Out: -3.150 ± 1.725 $\chi^2/\text{NDF}: 31.3/31$
Left In: -1.291 ± 1.701 $\chi^2/\text{NDF}: 36.5/22$

Left: 1.123 ± 1.190 $\chi^2/\text{NDF}: 59.4/47$
Right: -1.218 ± 1.241 $\chi^2/\text{NDF}: 60.0/59$
In: -0.271 ± 1.232 $\chi^2/\text{NDF}: 63.4/50$
Out: 0.260 ± 1.198 $\chi^2/\text{NDF}: 57.8/56$
All: 0.001 ± 0.859 $\chi^2/\text{NDF}: 121.3/107$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6547.334 $\pm$ 1.263 χ^2/NDF : 1534532.6/27

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6566.338 $\pm$ 1.220 χ^2/NDF : 2109770.7/31

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

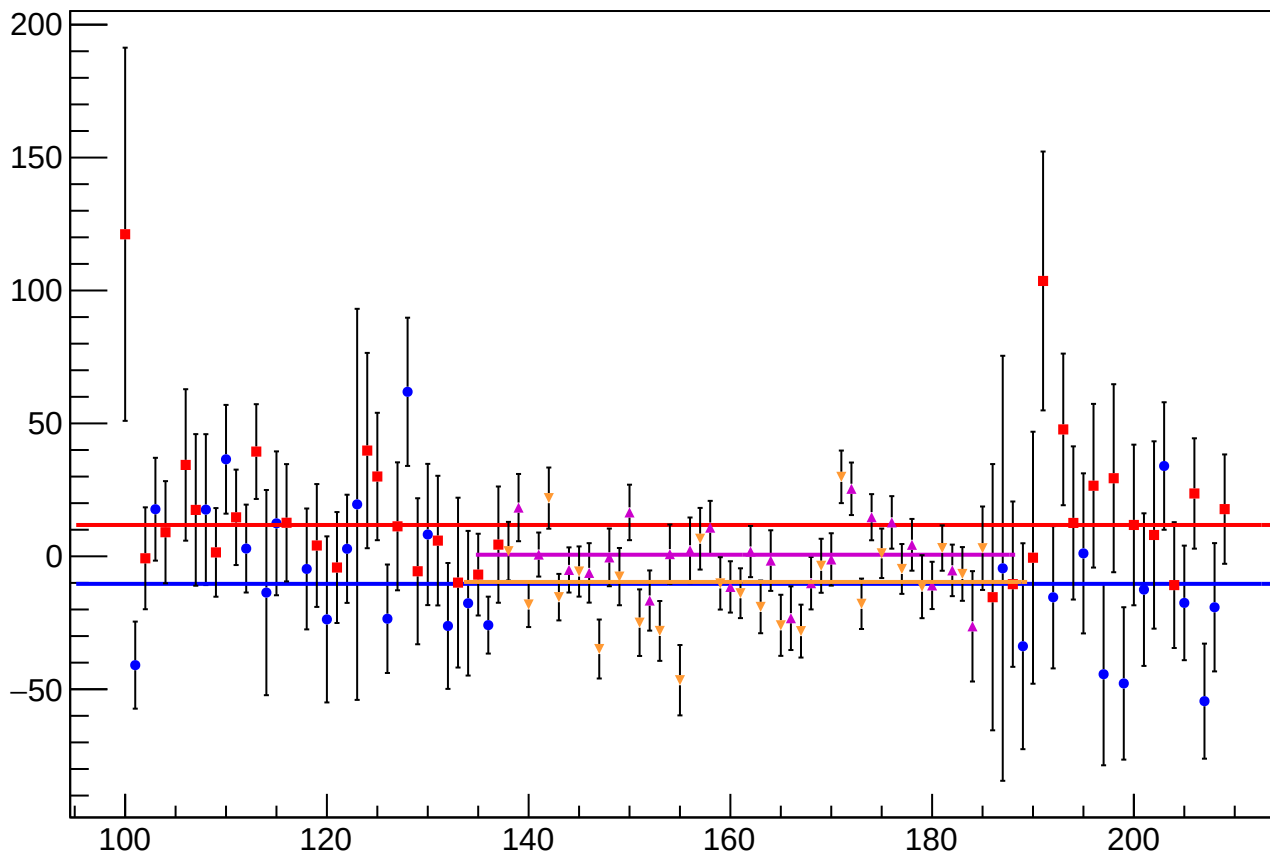
Right: 6557.169 $\pm$ 0.878 χ^2/NDF : 3644420.4/59

In: 6802.494 $\pm$ 0.871 χ^2/NDF : 2153308.8/50

Out: 6841.820 $\pm$ 0.847 χ^2/NDF : 2590866.6/56

All: 6822.699 $\pm$ 0.607 χ^2/NDF : 4745222.5/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -10.357 ± 4.360 χ^2/NDF : 35.3/27

Left Out: -9.640 ± 2.057 χ^2/NDF : 57.6/24

Right Out: 11.792 ± 4.318 χ^2/NDF : 18.6/31

Left In: 0.599 ± 2.135 χ^2/NDF : 29.7/22

Left: -4.710 ± 1.481 χ^2/NDF : 99.2/47

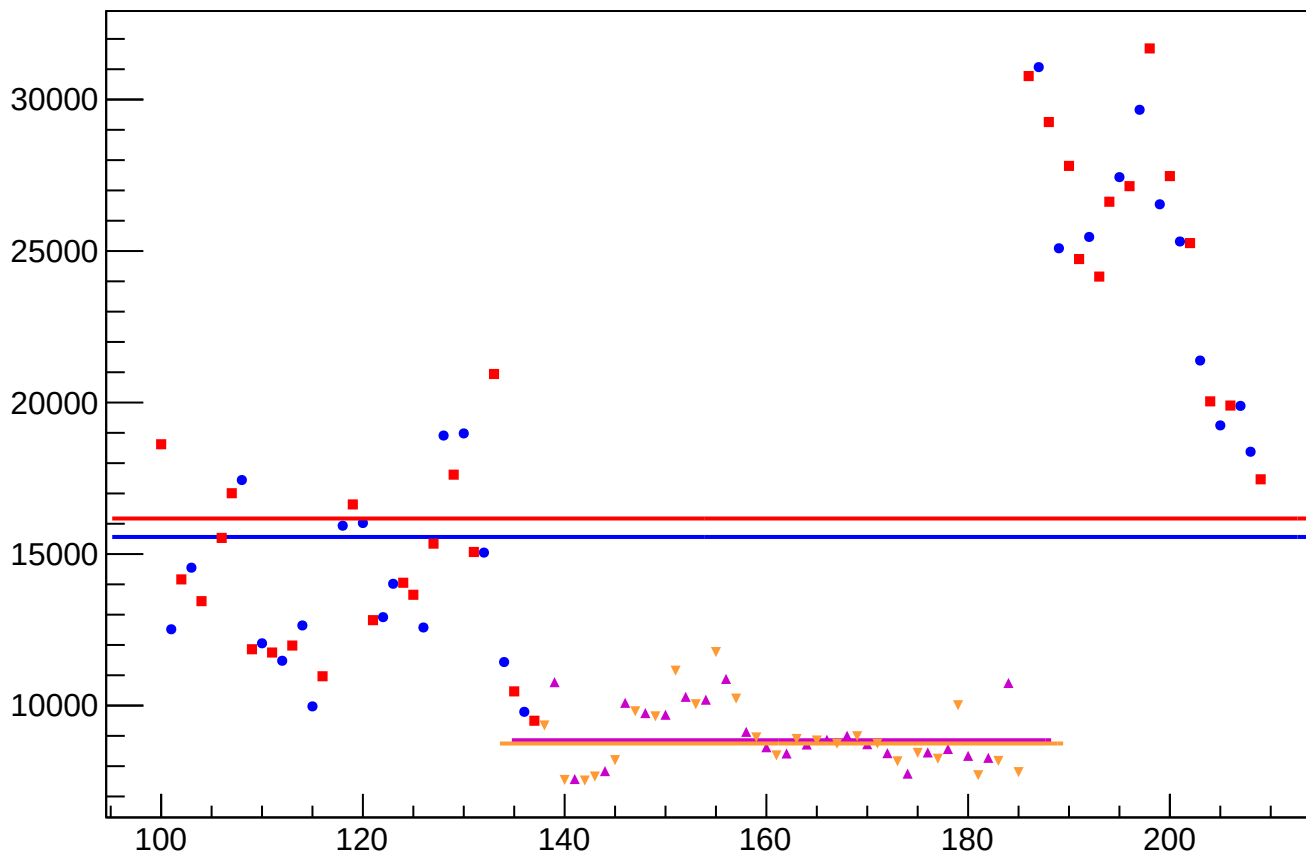
Right: 0.826 ± 3.068 χ^2/NDF : 66.9/59

In: -1.520 ± 1.917 χ^2/NDF : 70.0/50

Out: -5.675 ± 1.857 χ^2/NDF : 96.3/56

All: -3.664 ± 1.334 χ^2/NDF : 168.8/107

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15564.038 $\pm$ 3.083 χ^2/NDF : 3056777.1/27

Left Out: 8748.407 $\pm$ 1.455 χ^2/NDF : 463394.1/24

Right Out: 16173.223 $\pm$ 3.053 χ^2/NDF : 3447837.6/31

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

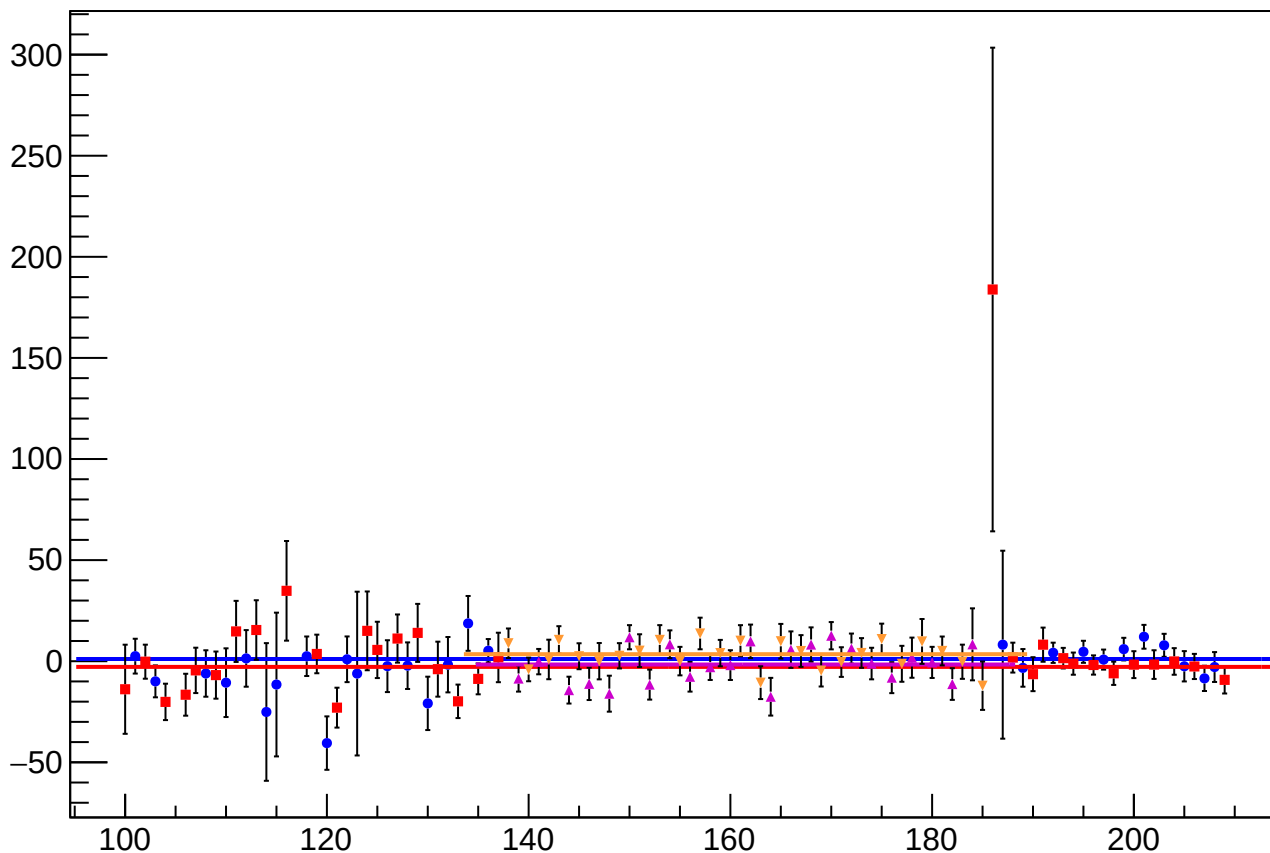
Right: 15871.616 $\pm$ 2.169 χ^2/NDF : 6524326.6/59

In: 10153.014 $\pm$ 1.356 χ^2/NDF : 7243103.2/50

Out: 10122.183 $\pm$ 1.313 χ^2/NDF : 8731290.7/56

All: 10137.107 $\pm$ 0.943 χ^2/NDF : 15974660.7

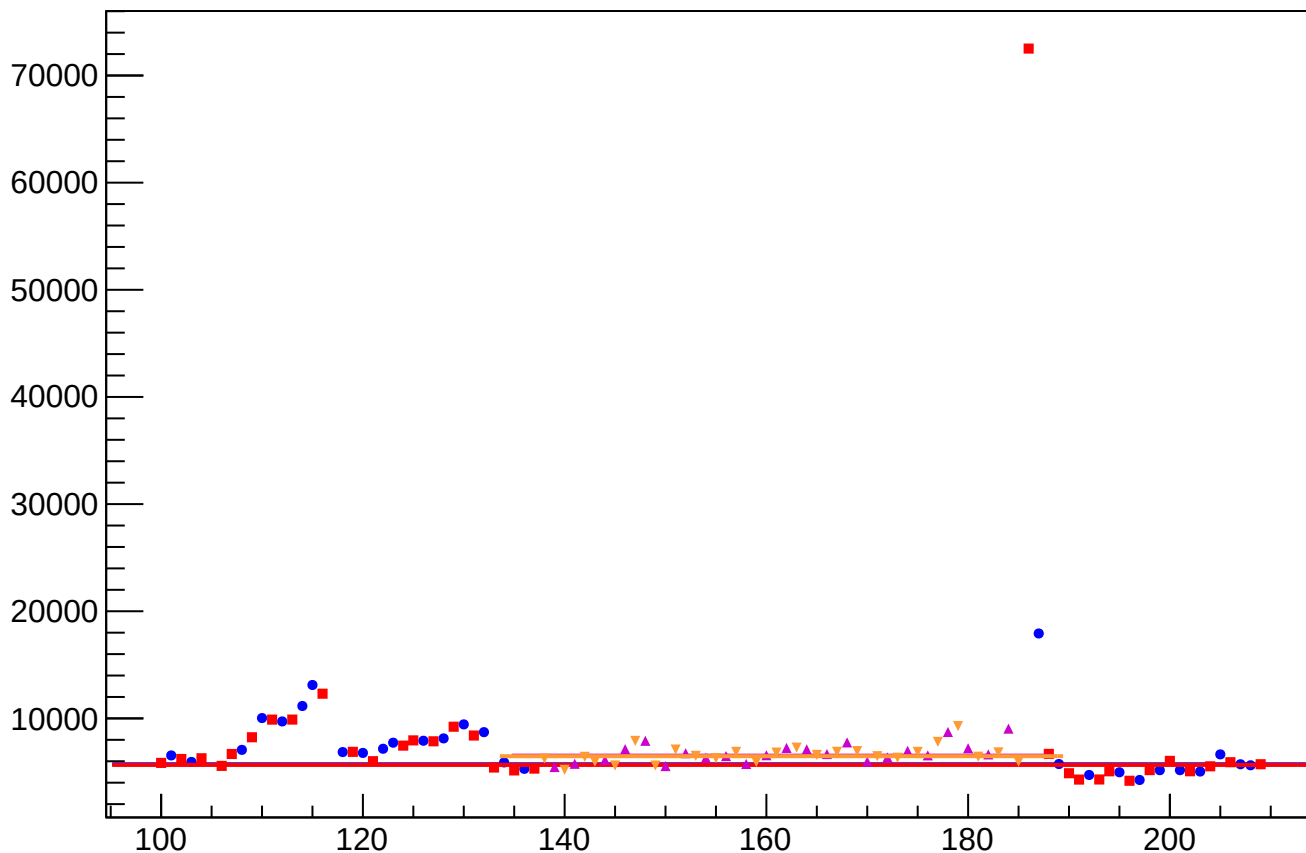
diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.096 ± 1.558 $\chi^2/\text{NDF}: 28.3/27$
Left Out: 3.473 ± 1.524 $\chi^2/\text{NDF}: 15.8/24$
Right Out: -2.808 ± 1.483 $\chi^2/\text{NDF}: 31.7/31$
Left In: -1.638 ± 1.578 $\chi^2/\text{NDF}: 33.7/22$

Left: 1.006 ± 1.096 $\chi^2/\text{NDF}: 54.9/47$
Right: -0.953 ± 1.074 $\chi^2/\text{NDF}: 63.3/59$
In: -0.254 ± 1.109 $\chi^2/\text{NDF}: 63.5/50$
Out: 0.246 ± 1.063 $\chi^2/\text{NDF}: 56.2/56$
All: 0.006 ± 0.767 $\chi^2/\text{NDF}: 119.8/107$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5718.580+/-1.102

χ^2/NDF : 1493286.9/27

Left Out: 6471.976+/-1.078

χ^2/NDF : 490282.9/24

Right Out: 5659.231+/-1.048

χ^2/NDF : 2123812.7/31

Left In: 6521.975+/-1.116

χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

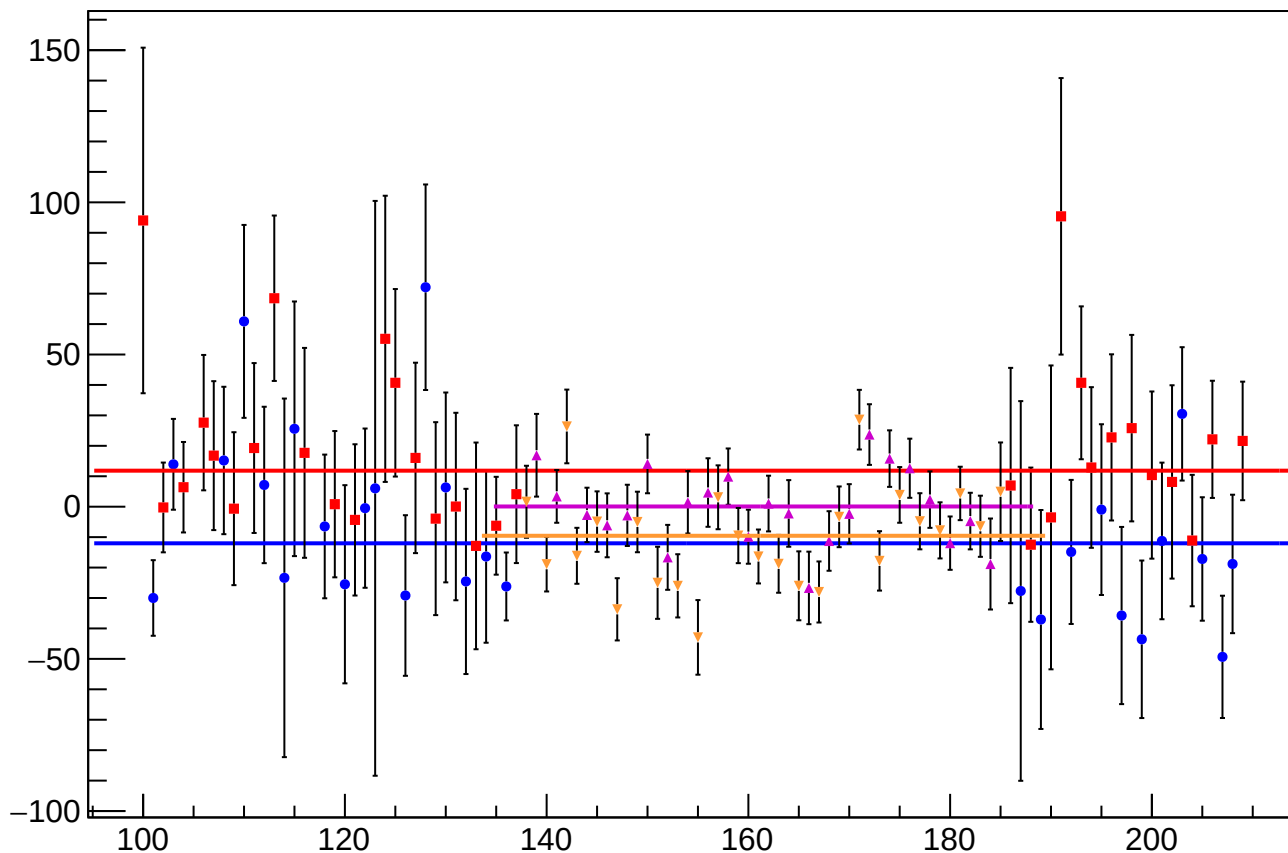
Right: 5687.430+/-0.760 χ^2/NDF : 3618622.3/59

In: 6115.250+/-0.784 χ^2/NDF : 2235811.4/50

Out: 6054.336+/-0.752 χ^2/NDF : 2906272.8/56

All: 6083.505+/-0.543 χ^2/NDF : 5145230.4/100

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -12.029 ± 4.417 χ^2/NDF : 32.6/27

Left Out: -9.554 ± 2.012 χ^2/NDF : 59.5/24

Right Out: 11.836 ± 4.422 χ^2/NDF : 20.6/31

Left In: 0.072 ± 2.073 χ^2/NDF : 29.8/22

Left: -4.885 ± 1.444 χ^2/NDF : 100.5/47

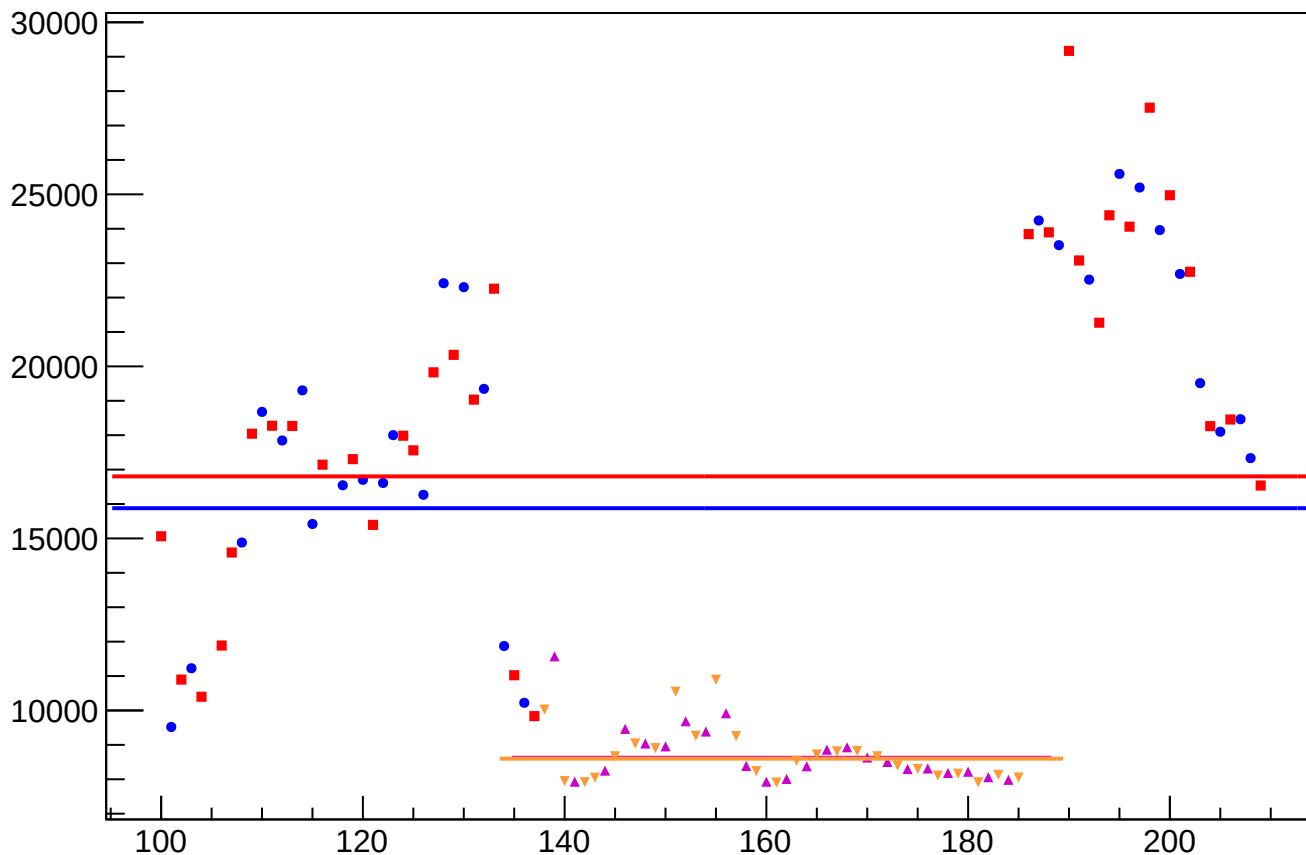
Right: -0.109 ± 3.125 χ^2/NDF : 67.8/59

In: -2.112 ± 1.876 χ^2/NDF : 68.5/50

Out: -5.886 ± 1.831 χ^2/NDF : 99.6/56

All: -4.045 ± 1.311 χ^2/NDF : 170.1/107

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15878.551 $\pm$ 3.123 χ^2 /NDF: 2685802.3/27

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF: 249070.5/24

Right Out: 16802.214 $\pm$ 3.127 χ^2 /NDF: 2657886.2/31

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

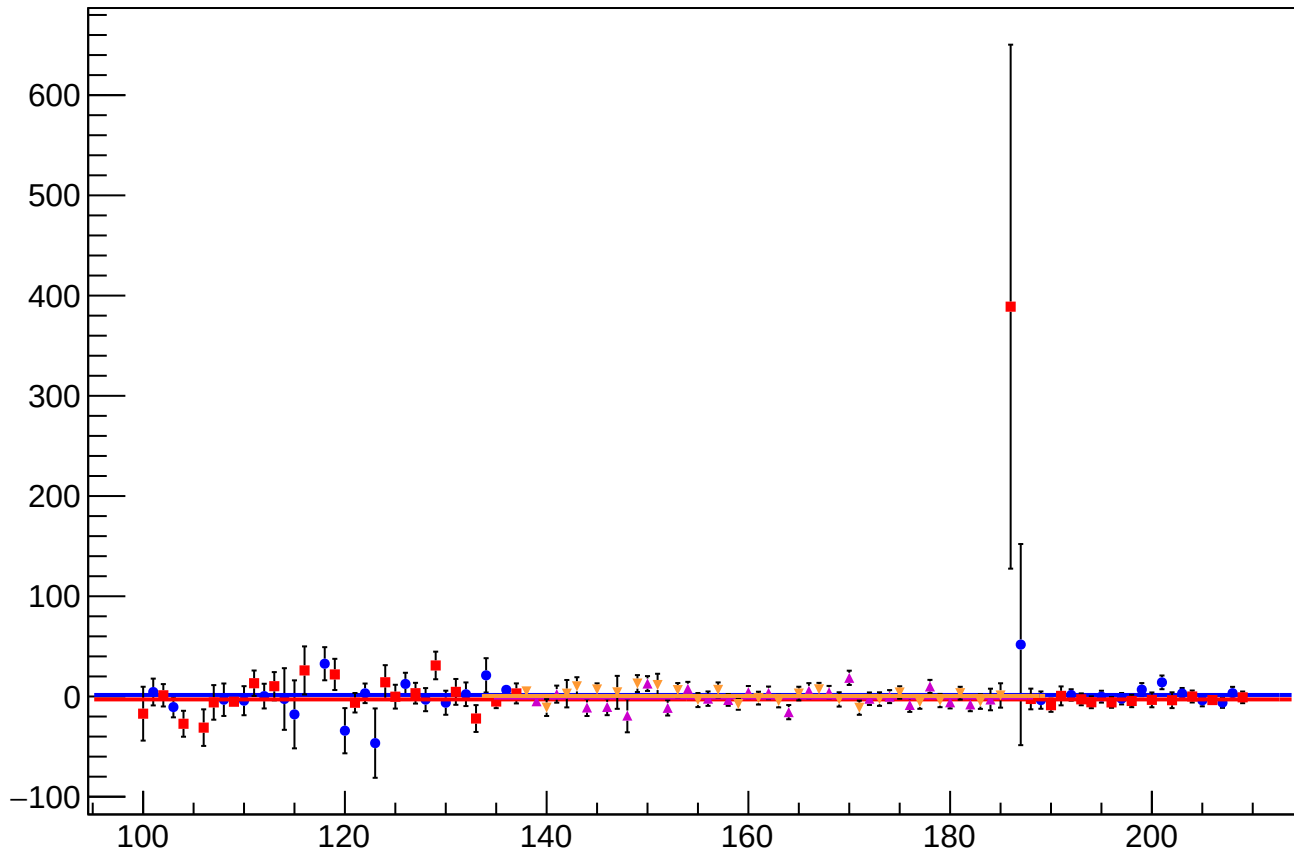
Right: 16339.902 $\pm$ 2.210 χ^2 /NDF: 5387368.4/59

In: 9934.120 $\pm$ 1.327 χ^2 /NDF: 7342708.5/50

Out: 10005.792 $\pm$ 1.295 χ^2 /NDF: 8609882.2/56

All: 9970.831 $\pm$ 0.927 χ^2 /NDF: 15954085.2/106

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.530 $\pm$ 1.578 χ^2 /NDF: 22.4/27

Left Out: 0.528 $\pm$ 1.418 χ^2 /NDF:19.5/24

Right Out: -2.915 $\pm$ 1.474 χ^2 /NDF: 27.7/31

Left In: -1.050 $\pm$ 1.396 χ^2 /NDF:32.5/22

Left: -0.273 $\pm$ 0.995 χ^2 /NDF: 52.6/47

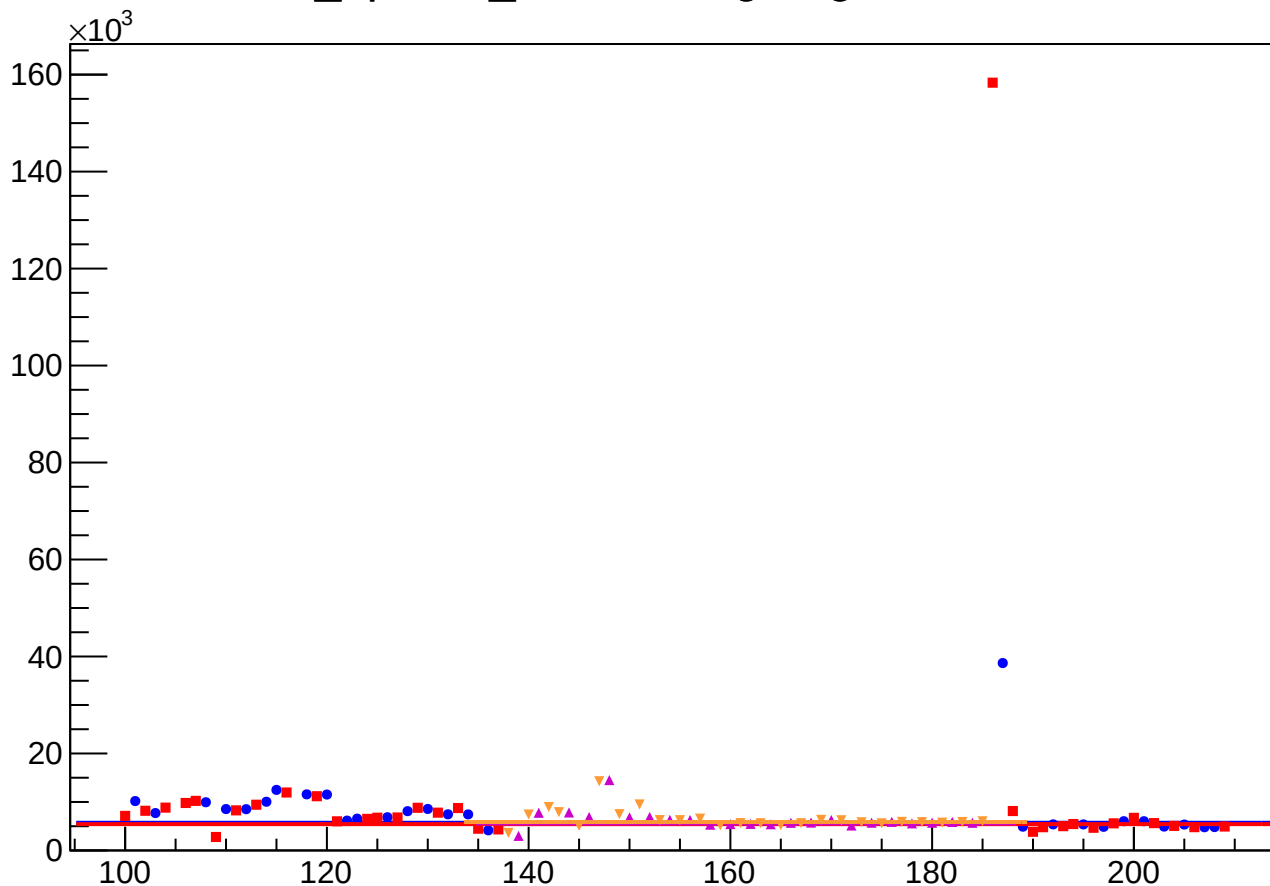
Right: -0.843 $\pm$ 1.077 χ^2 /NDF: 54.4/59

In: 0.083 $\pm$ 1.045 χ^2 /NDF:56.5/50

Out: -1.126 $\pm$ 1.022 χ^2 /NDF:50.0/56

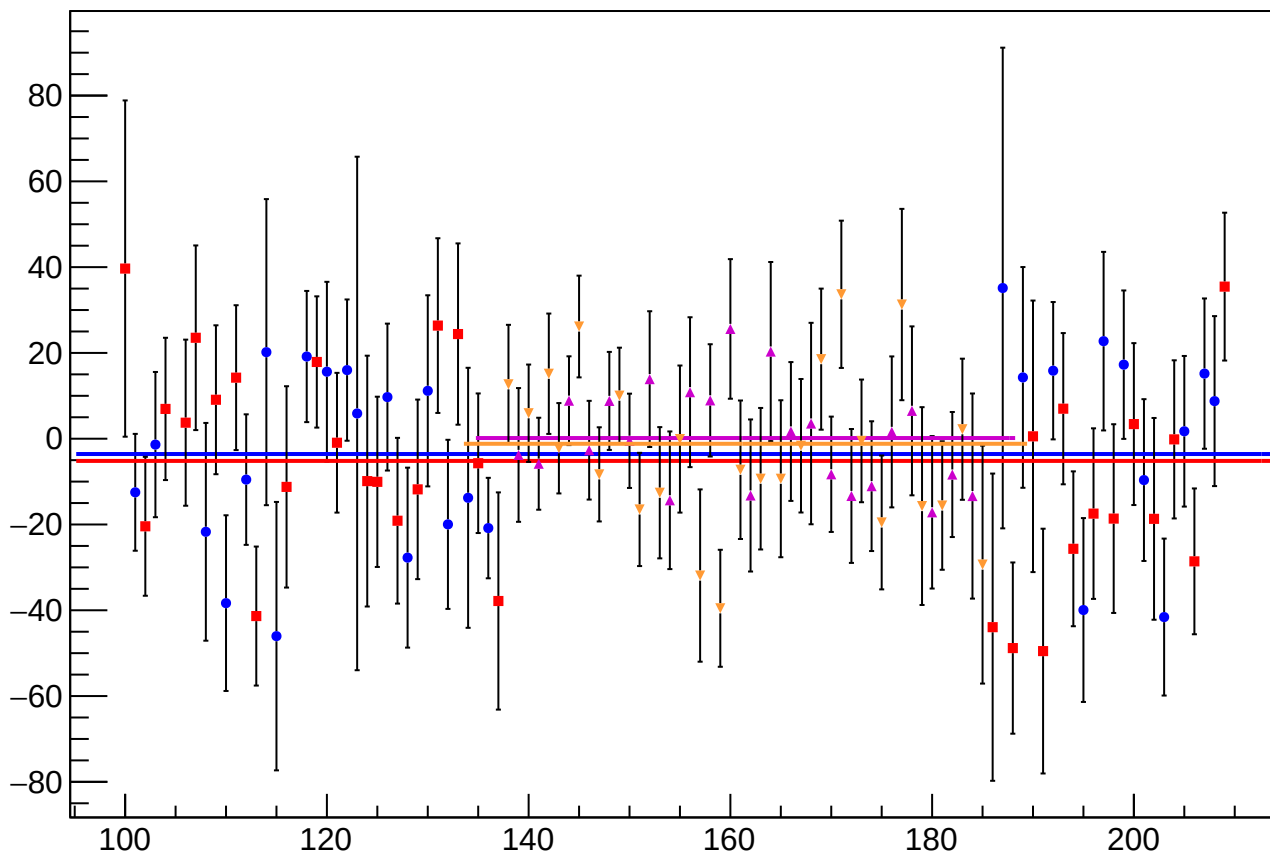
All: -0.535 $\pm$ 0.731 χ^2 /NDF: 107.1/107

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5708.390 $\pm$ 1.116	χ^2/NDF : 2095885.4/27	Left: 5713.698 $\pm$ 0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605 $\pm$ 1.002	χ^2/NDF : 1690049.2/24	Right: 5557.489 $\pm$ 0.762	χ^2/NDF : 5581153.3/59
Right Out: 5425.707 $\pm$ 1.042	χ^2/NDF : 3450990.3/31	In: 5631.497 $\pm$ 0.739	χ^2/NDF : 4267142.4/50
Left In: 5571.330 $\pm$ 0.987	χ^2/NDF : 2162788.3/22	Out: 5651.677 $\pm$ 0.723	χ^2/NDF : 5231465.7/56
		All: 5641.816 $\pm$ 0.517	χ^2/NDF : 9498989.3/10

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.571 ± 3.615 χ^2/NDF : 30.5/27

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -5.176 ± 3.474 χ^2/NDF : 39.8/31

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

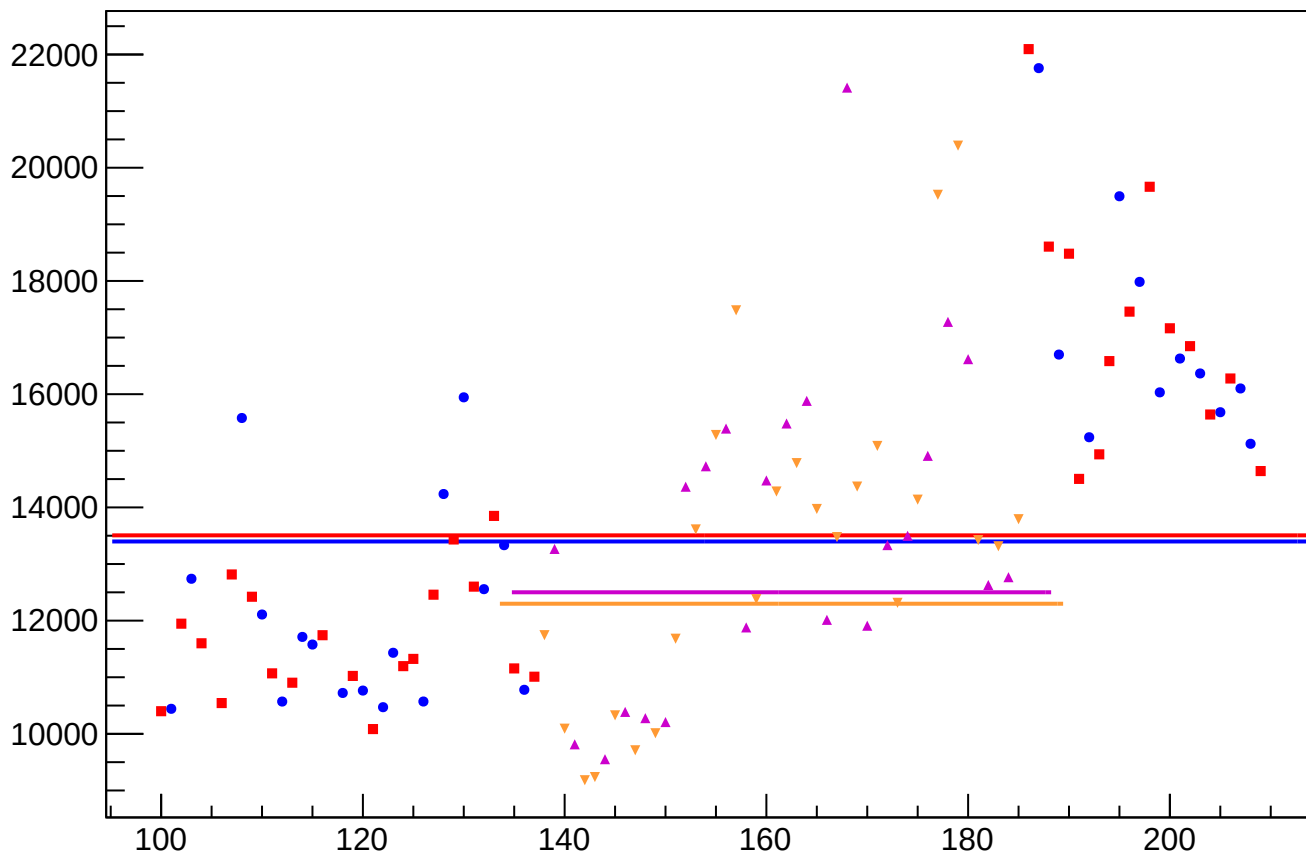
Right: -4.406 ± 2.505 χ^2/NDF : 70.4/59

In: -1.398 ± 2.335 χ^2/NDF : 42.6/50

Out: -2.848 ± 2.244 χ^2/NDF : 74.3/56

All: -2.152 ± 1.618 χ^2/NDF : 117.1/107

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13398.331 $\pm$ 2.556

χ^2/NDF : 1162937.1/27

Left: 12395.720 $\pm$ 1.498 χ^2/NDF : 2868458.0/47

Right: 13454.515 $\pm$ 1.771 χ^2/NDF : 2440306.7/59

Left Out: 12298.676 $\pm$ 2.078

χ^2/NDF : 1506026.8/24

In: 12875.126 $\pm$ 1.651 χ^2/NDF : 2592680.6/50

Right Out: 13506.397 $\pm$ 2.457

χ^2/NDF : 1276440.6/31

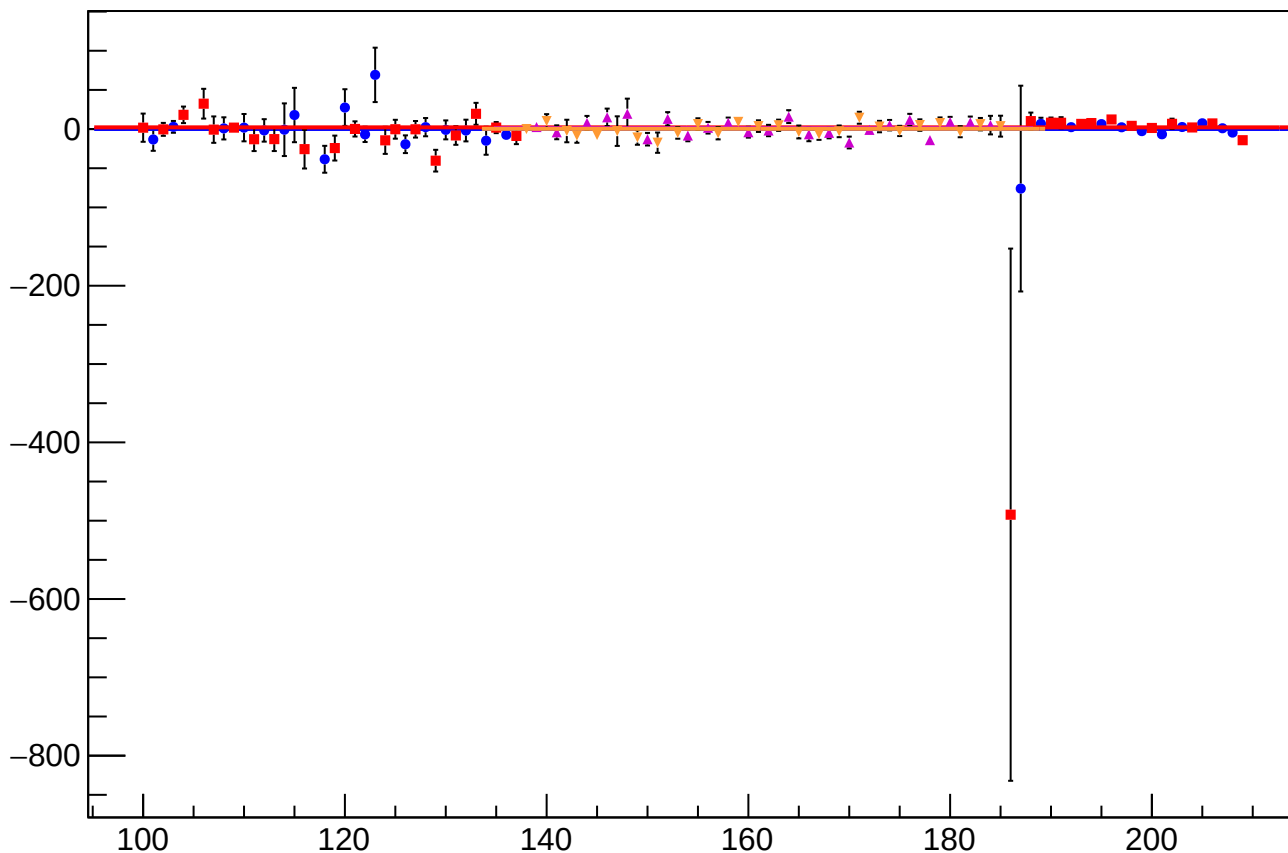
Out: 12802.414 $\pm$ 1.587 χ^2/NDF : 2923346.7/56

Left In: 12500.795 $\pm$ 2.162

χ^2/NDF : 1357889.1/22

All: 12837.324 $\pm$ 1.144 χ^2/NDF : 5517035.7/100

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.152 ± 1.344 $\chi^2/\text{NDF}: 27.8/27$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: 2.196 ± 1.278 $\chi^2/\text{NDF}: 53.1/31$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

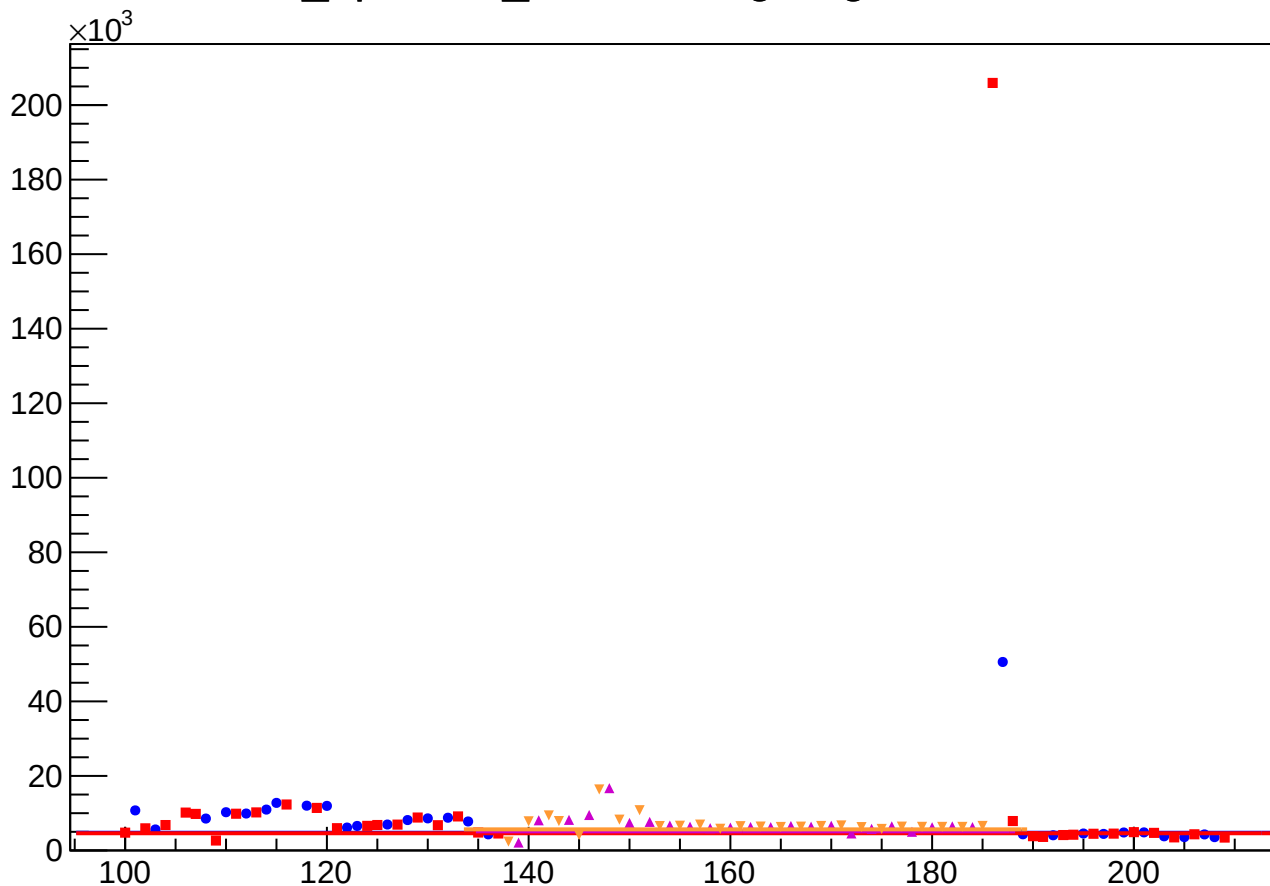
Right: 1.225 ± 0.926 $\chi^2/\text{NDF}: 82.2/59$

In: 0.648 ± 0.960 $\chi^2/\text{NDF}: 61.7/50$

Out: 1.380 ± 0.954 $\chi^2/\text{NDF}: 73.2/56$

All: 1.016 ± 0.677 $\chi^2/\text{NDF}: 135.2/107$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4750.068 $\pm$ 0.950 χ^2/NDF : 3158356.5/27

Left Out: 5659.441 $\pm$ 1.014 χ^2/NDF : 4128583.6/24

Right Out: 4616.265 $\pm$ 0.904 χ^2/NDF : 3905996.4/31

Left In: 5137.772 $\pm$ 0.970 χ^2/NDF : 5495609.7/22

Left: 5387.078 $\pm$ 0.701 χ^2/NDF : 9762498.7/47

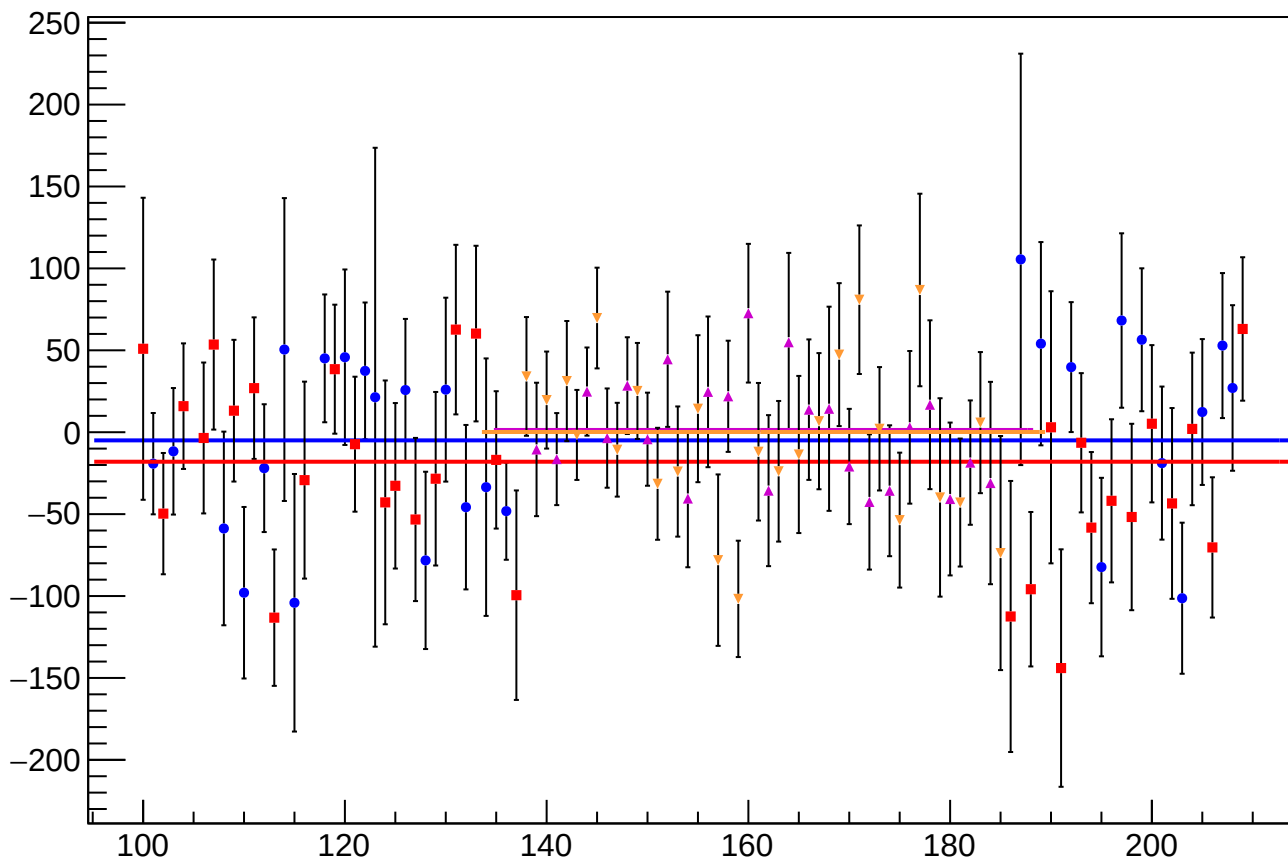
Right: 4679.803 $\pm$ 0.655 χ^2/NDF : 7074760.4/59

In: 4940.031 $\pm$ 0.679 χ^2/NDF : 8735494.6/50

Out: 5078.336 $\pm$ 0.675 χ^2/NDF : 8624655.3/56

All: 5009.613 $\pm$ 0.478 χ^2/NDF : 17381037.3/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -4.979 ± 9.011 χ^2/NDF : 31.1/27

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -18.008 ± 8.665 χ^2/NDF : 34.0/31

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

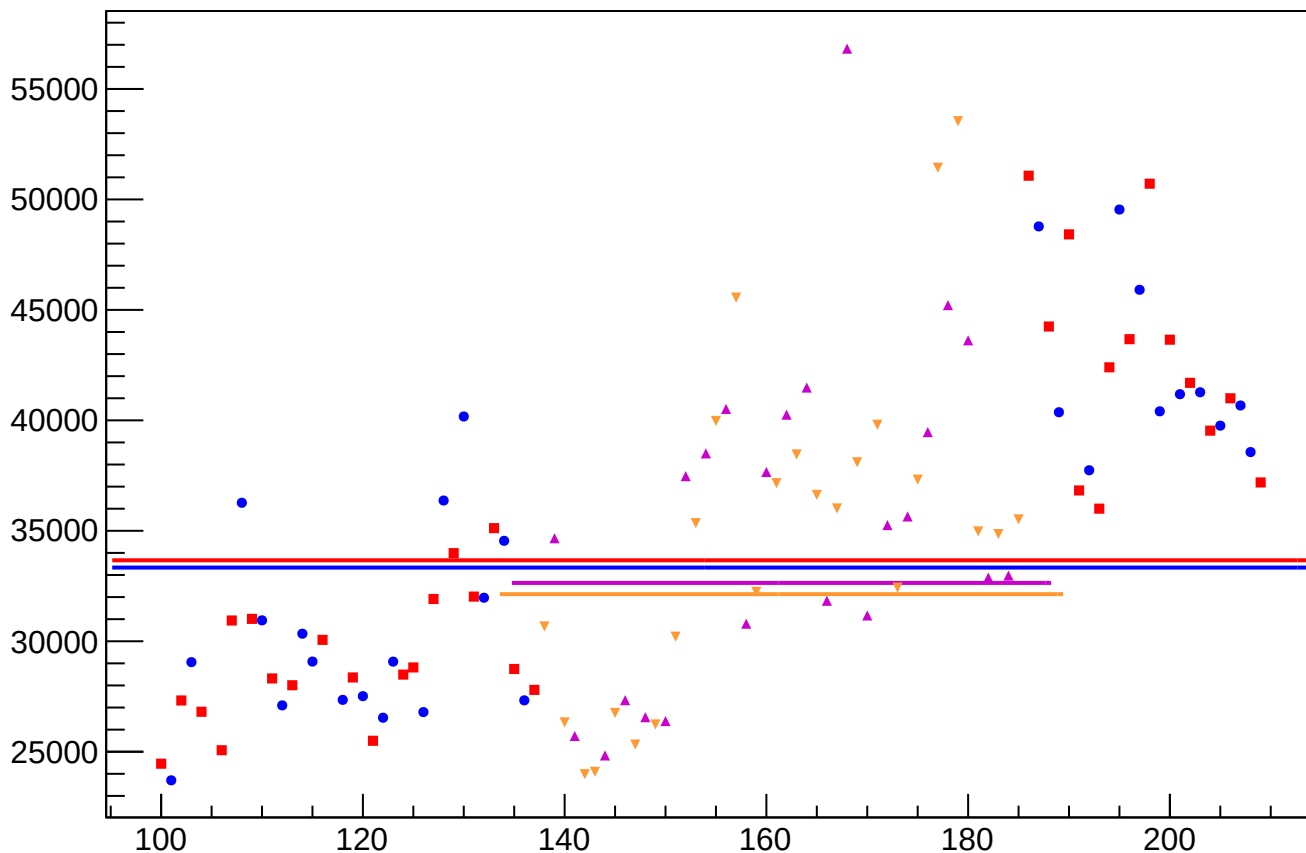
Right: -11.749 ± 6.246 χ^2/NDF : 66.2/59

In: -1.423 ± 5.978 χ^2/NDF : 44.6/50

Out: -7.847 ± 5.749 χ^2/NDF : 67.8/56

All: -4.761 ± 4.144 χ^2/NDF : 113.0/107

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 33336.240 $\pm$ 6.371

χ^2/NDF : 1232571.3/27

Left: 32376.774 $\pm$ 3.916 χ^2/NDF : 2946456.2/47

Right: 33507.477 $\pm$ 4.416 χ^2/NDF : 2549915.8/59

Left Out: 32132.314 $\pm$ 5.433

χ^2/NDF : 1540079.4/24

In: 32947.137 $\pm$ 4.227 χ^2/NDF : 2641396.0/50

Right Out: 33665.820 $\pm$ 6.127

χ^2/NDF : 1315954.3/31

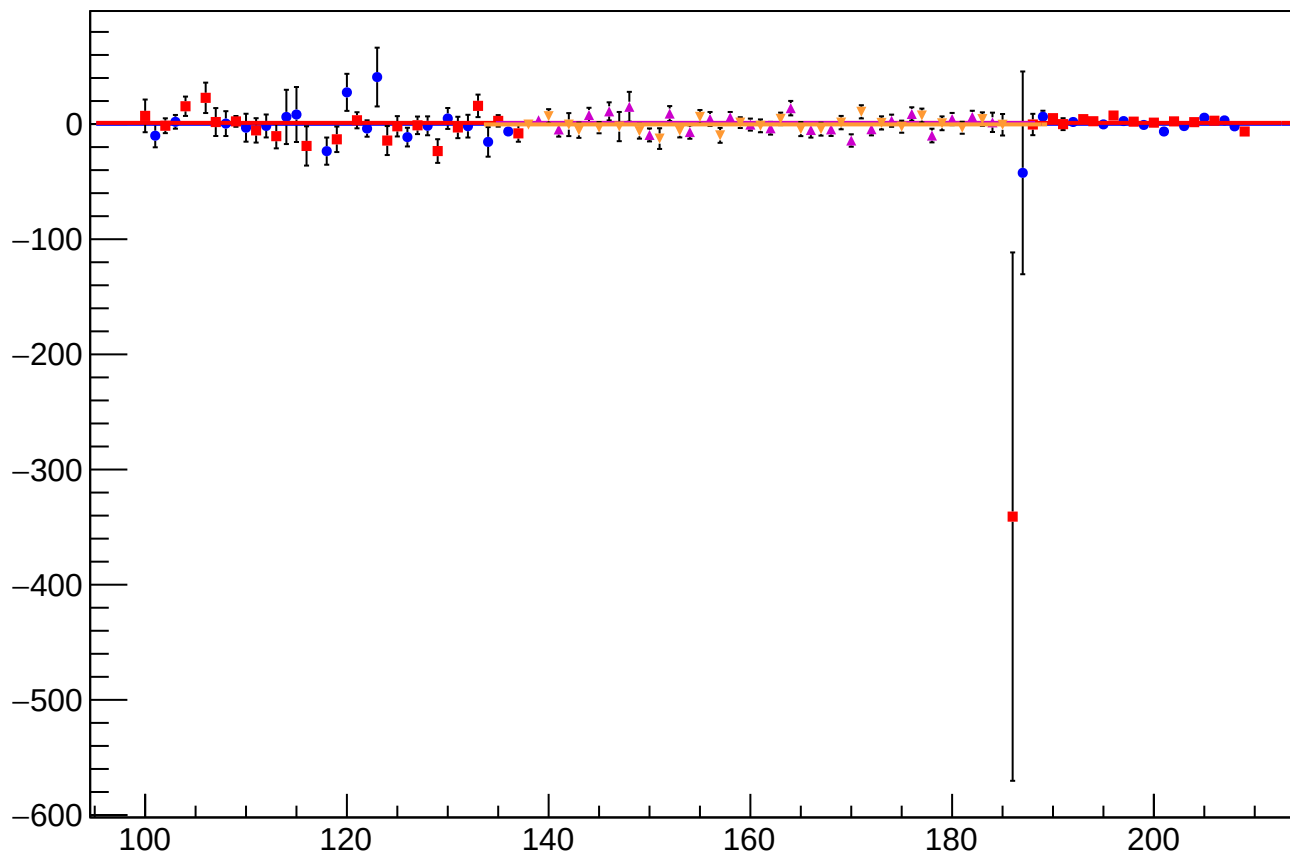
Out: 32807.337 $\pm$ 4.065 χ^2/NDF : 2891104.2/56

Left In: 32641.162 $\pm$ 5.650

χ^2/NDF : 1402162.4/22

All: 32874.501 $\pm$ 2.930 χ^2/NDF : 5533068.5/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.213 ± 0.820 $\chi^2/\text{NDF}: 34.2/27$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: 1.026 ± 0.821 $\chi^2/\text{NDF}: 43.6/31$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

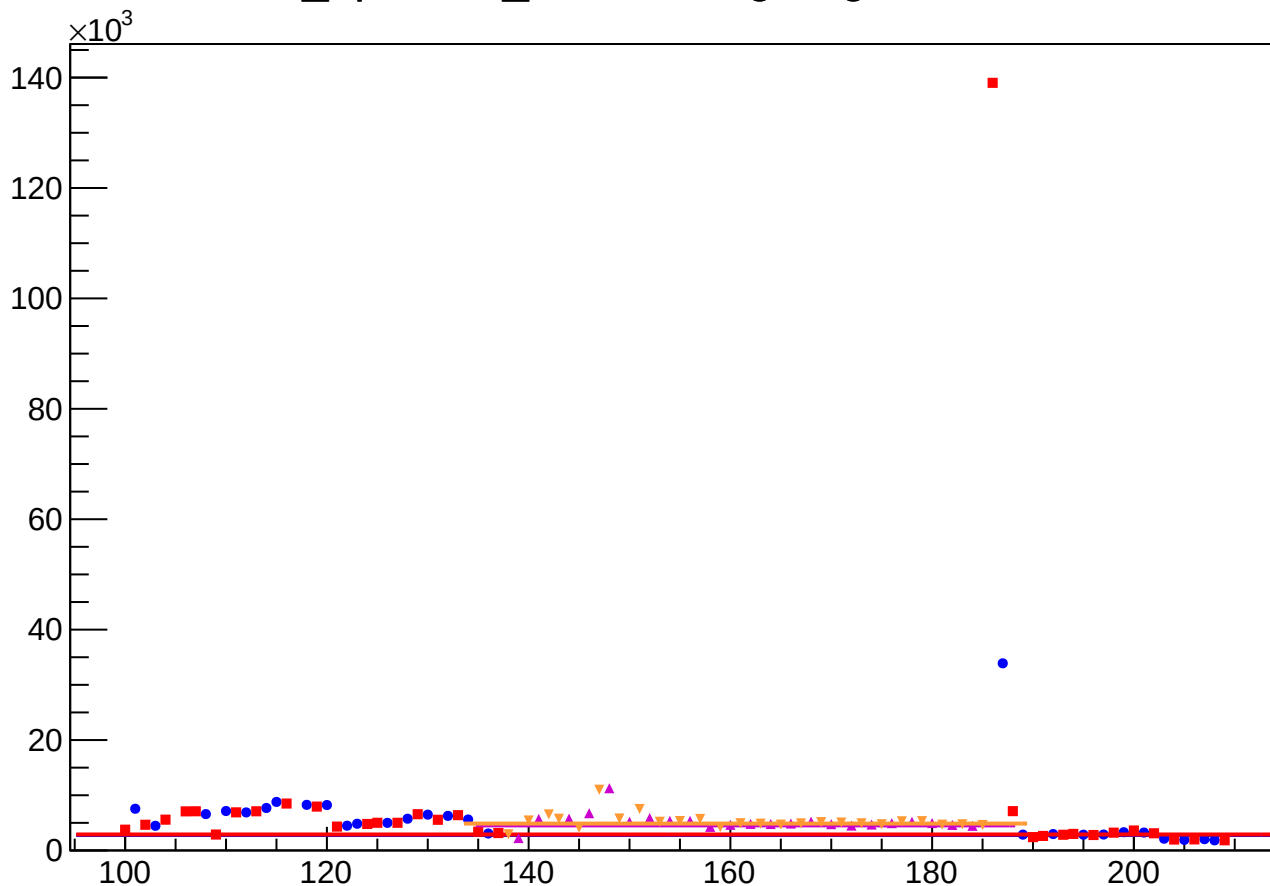
Right: 0.619 ± 0.580 $\chi^2/\text{NDF}: 78.3/59$

In: 0.449 ± 0.666 $\chi^2/\text{NDF}: 70.6/50$

Out: 0.585 ± 0.672 $\chi^2/\text{NDF}: 62.1/56$

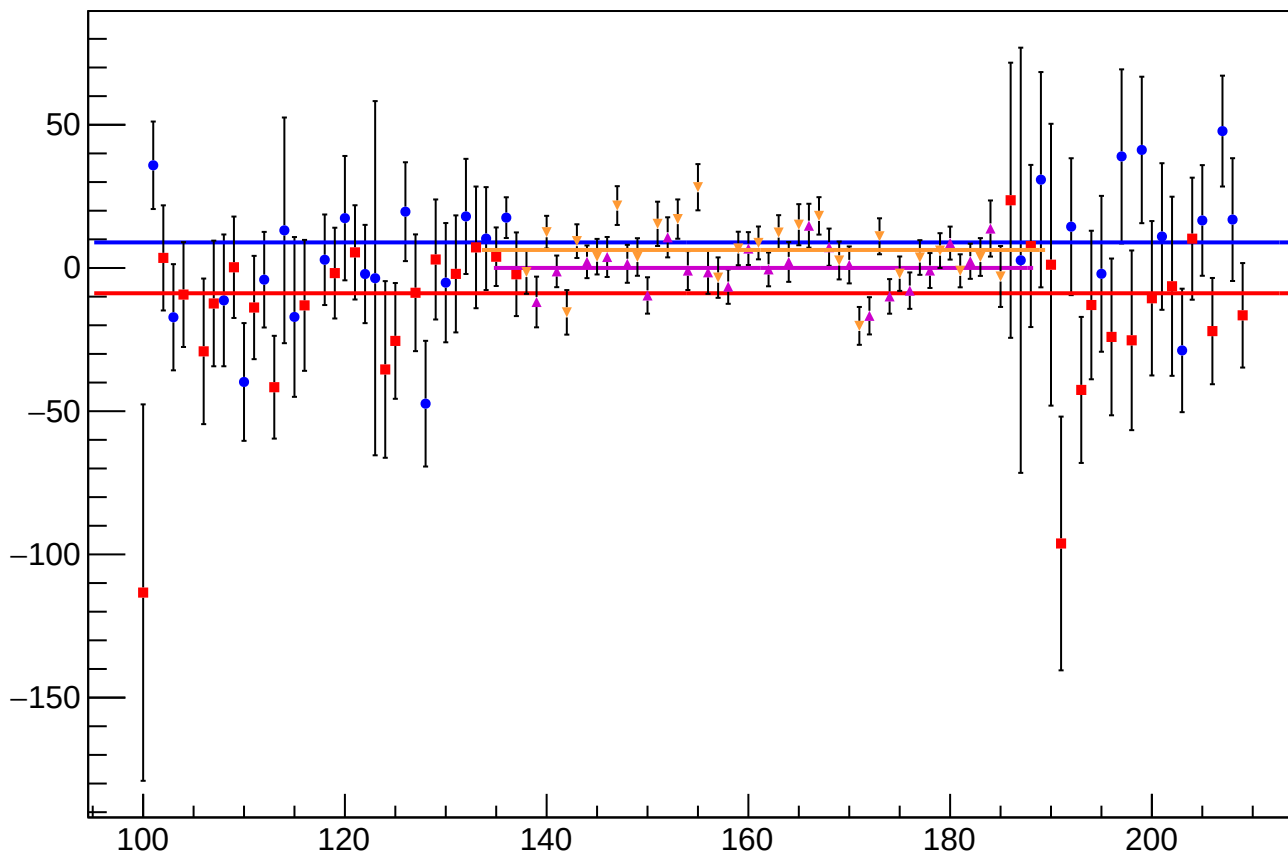
All: 0.517 ± 0.473 $\chi^2/\text{NDF}: 132.8/107$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2795.956 $\pm$ 0.580	χ^2/NDF : 4894224.2/27	Left: 4702.320 $\pm$ 0.578	χ^2/NDF : 4223993.0/47
Left Out: 4868.567 $\pm$ 0.829	χ^2/NDF : 1511151.0/24	Right: 2844.832 $\pm$ 0.410	χ^2/NDF : 10434530.1/59
Right Out: 2893.831 $\pm$ 0.580	χ^2/NDF : 5526064.0/31	In: 3390.244 $\pm$ 0.471	χ^2/NDF : 10621917.3/50
Left In: 4544.337 $\pm$ 0.808	χ^2/NDF : 2634314.4/22	Out: 3543.754 $\pm$ 0.475	χ^2/NDF : 10848539.9/56
		All: 3466.280 $\pm$ 0.335	χ^2/NDF : 21523102.0/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 8.934 ± 3.589 χ^2/NDF : 33.4/27

Left Out: 6.296 ± 1.310 χ^2/NDF : 56.5/24

Right Out: -8.823 ± 3.668 χ^2/NDF : 21.1/31

Left In: 0.020 ± 1.353 χ^2/NDF : 29.9/22

Left: 3.259 ± 0.941 χ^2/NDF : 97.5/47

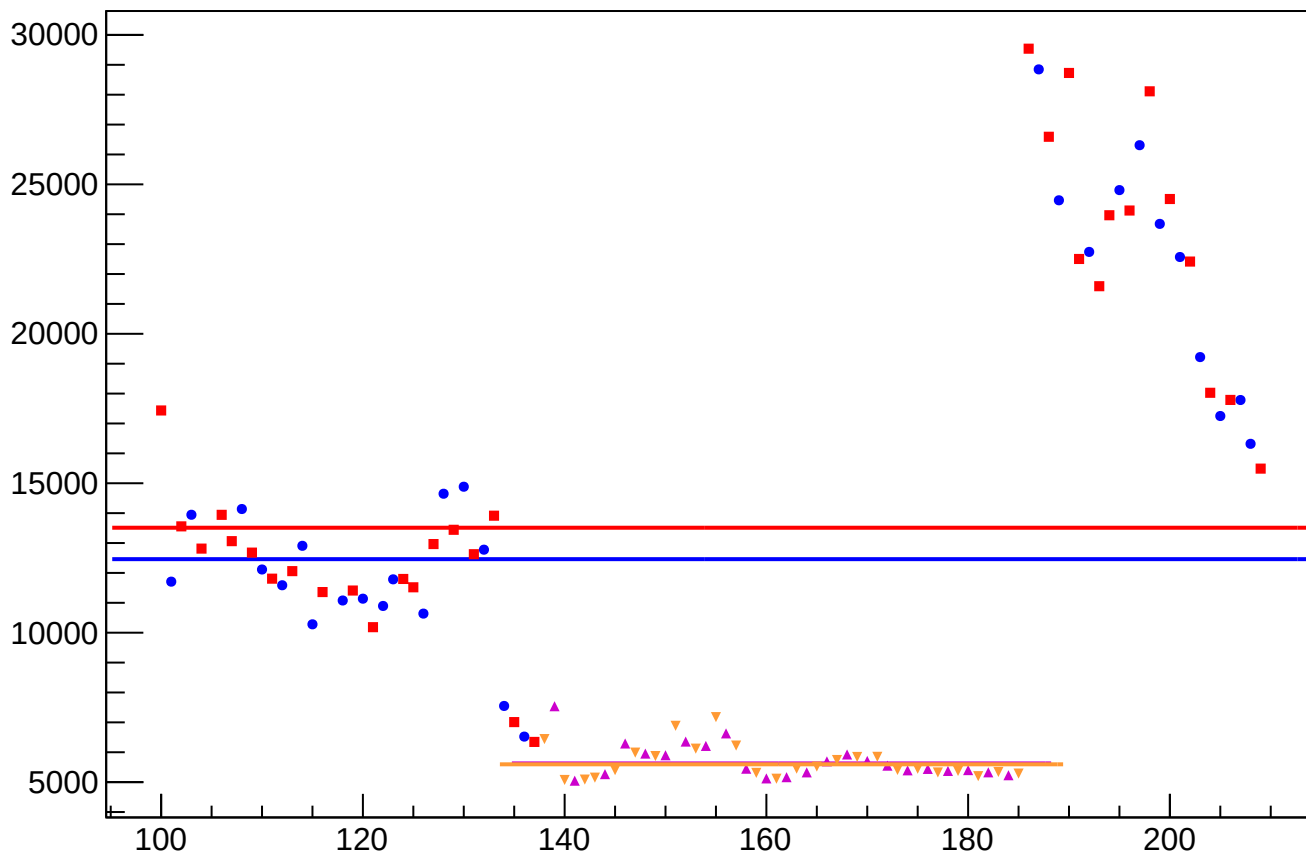
Right: 0.249 ± 2.565 χ^2/NDF : 66.4/59

In: 1.130 ± 1.266 χ^2/NDF : 68.7/50

Out: 4.585 ± 1.234 χ^2/NDF : 92.7/56

All: 2.902 ± 0.884 χ^2/NDF : 165.2/107

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12460.459 $\pm$ 2.538 χ^2 /NDF: 4430063.8/27

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF: 283998.1/24

Right Out: 13511.899 $\pm$ 2.594 χ^2 /NDF: 4402232.5/31

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

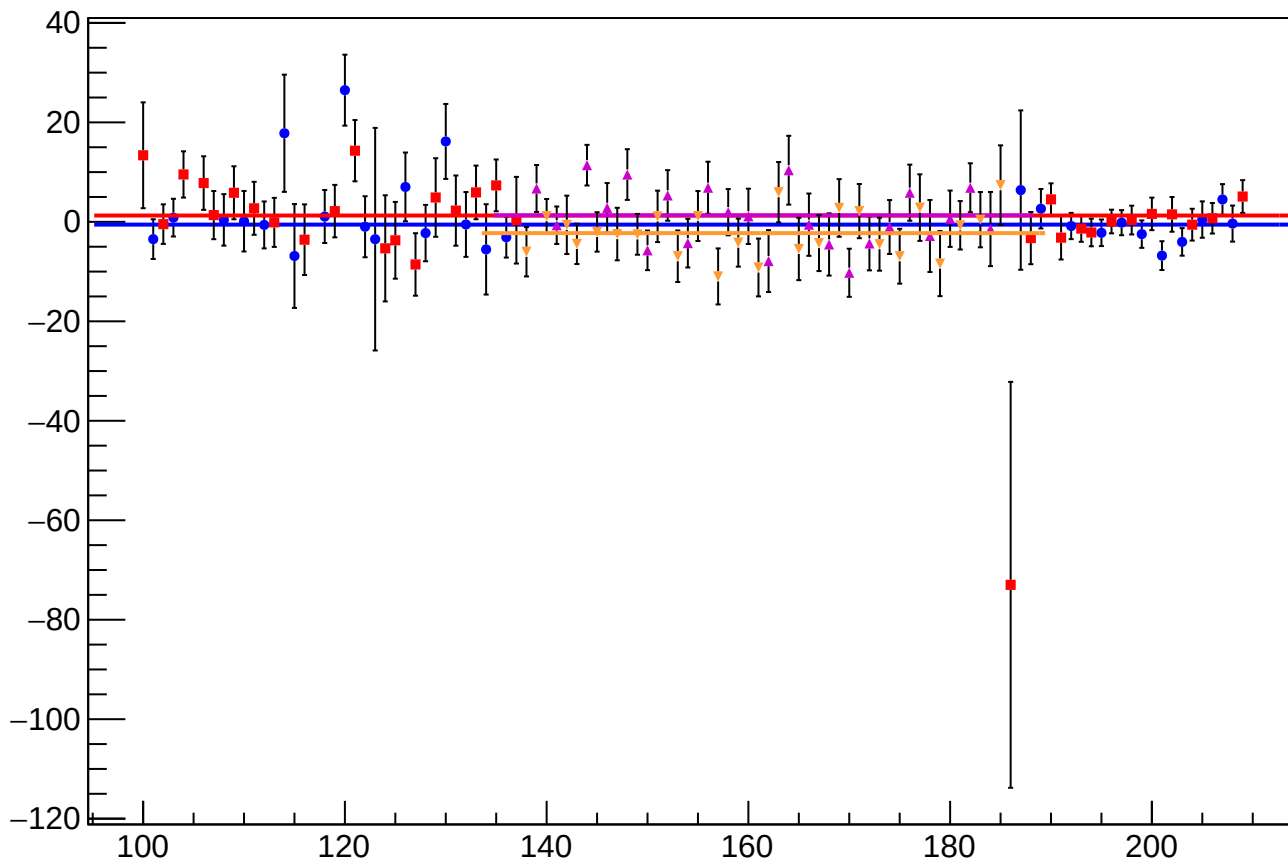
Right: 12974.722 $\pm$ 1.814 χ^2 /NDF: 8916251.8/59

In: 6477.644 $\pm$ 0.895 χ^2 /NDF: 11056948.1/50

Out: 6491.970 $\pm$ 0.872 χ^2 /NDF: 12945855.9/56

All: 6484.992 $\pm$ 0.625 χ^2 /NDF: 24002935.4/101

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.557 $\pm$ 0.778 χ^2/NDF : 35.6/27

Left Out: -2.268 $\pm$ 1.029 χ^2/NDF : 15.4/24

Right Out: 1.272 $\pm$ 0.749 χ^2/NDF : 28.2/31

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

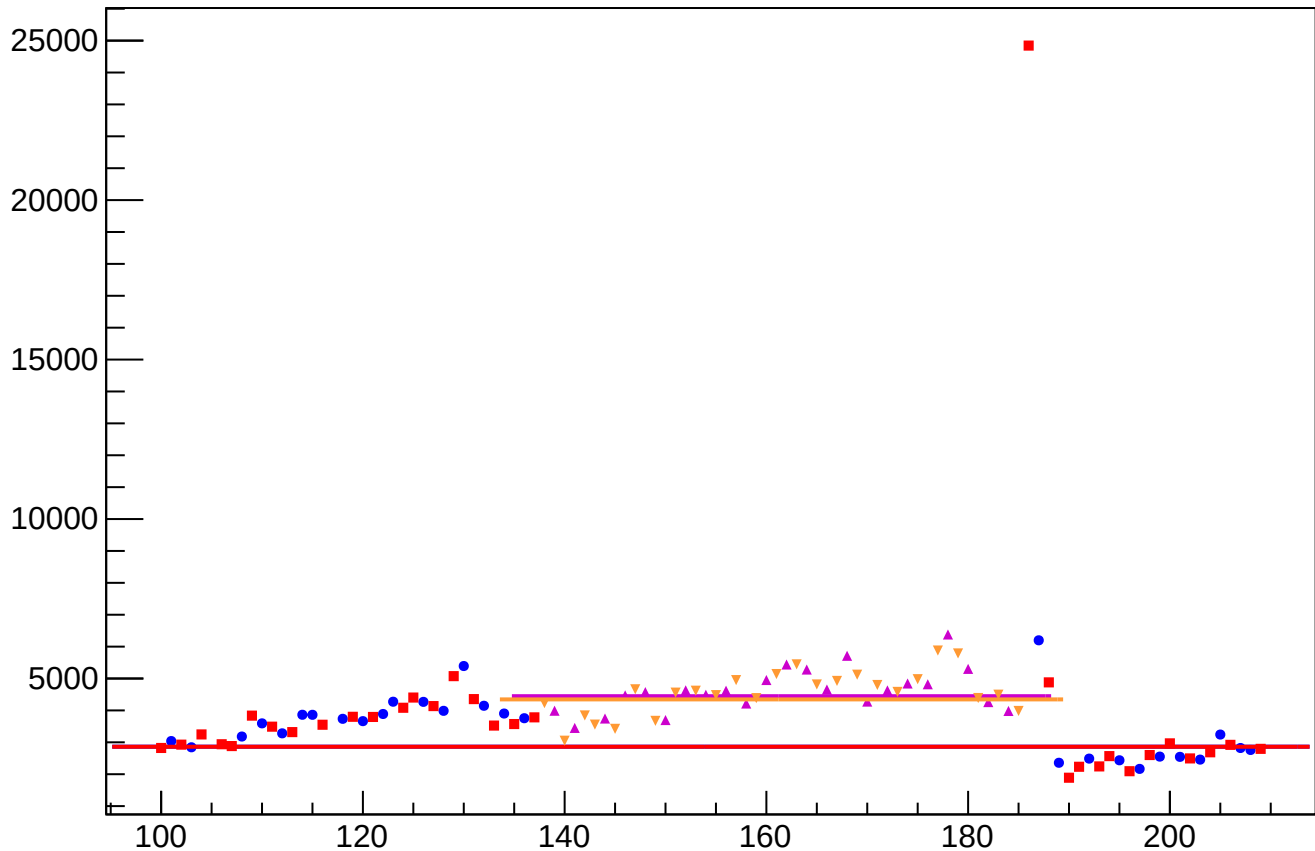
Right: 0.393 $\pm$ 0.539 χ^2/NDF : 66.7/59

In: 0.081 $\pm$ 0.631 χ^2/NDF : 68.4/50

Out: 0.048 $\pm$ 0.605 χ^2/NDF : 51.3/56

All: 0.064 $\pm$ 0.437 χ^2/NDF : 119.7/107

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2863.250+/-0.550

χ^2/NDF : 1295757.6/27

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

Left Out: 4345.381+/-0.728

χ^2/NDF : 1000636.1/24

Right: 2862.030+/-0.381 χ^2/NDF : 3561069.7/59

Right Out: 2860.900+/-0.529

χ^2/NDF : 2265302.6/31

In: 3405.983+/-0.446

χ^2/NDF : 4837343.7/50

Out: 3374.307+/-0.428

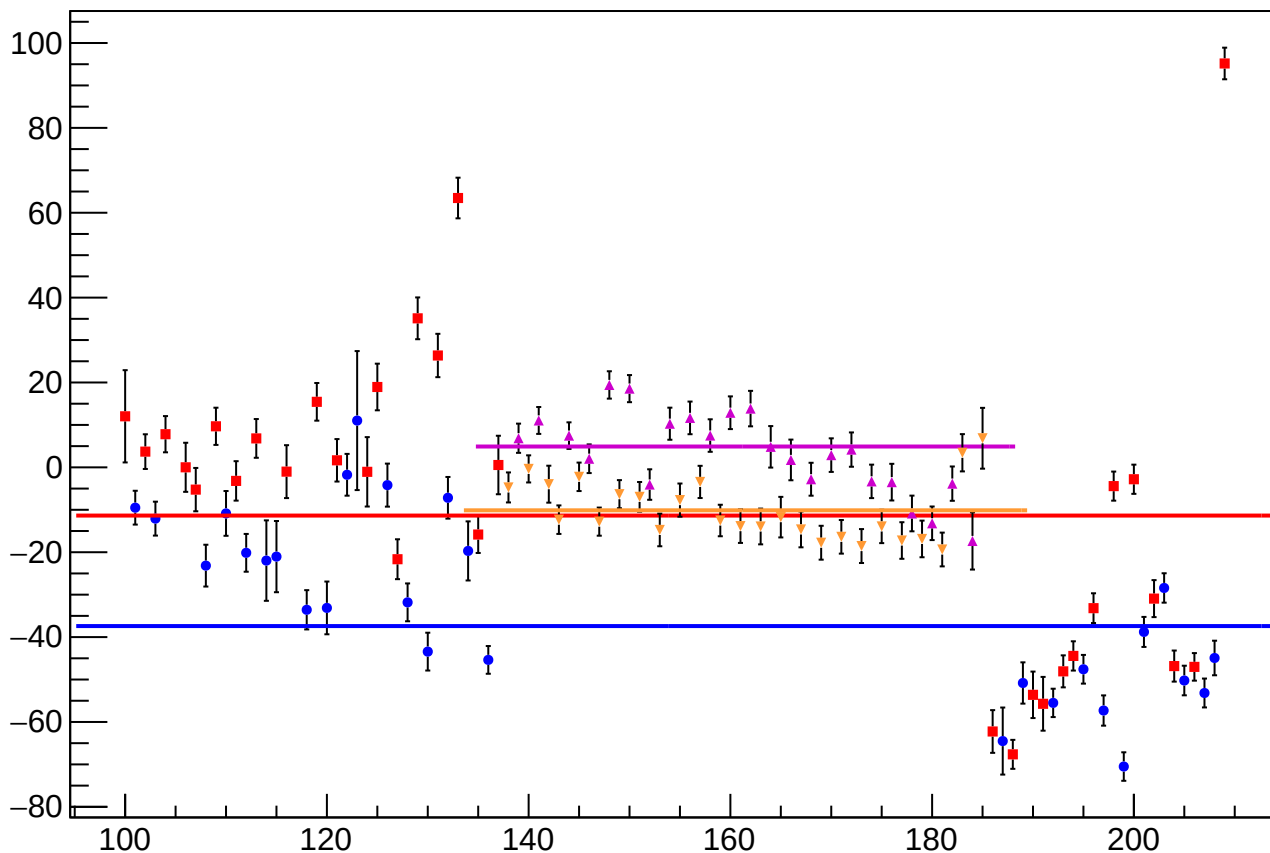
χ^2/NDF : 5986491.8/56

Left In: 4446.181+/-0.762

χ^2/NDF : 702797.6/22

All: 3389.498+/-0.309 χ^2/NDF : 10826461.3/1

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -37.402 ± 0.820 $\chi^2/\text{NDF}: 534.7/27$

Left Out: -10.125 ± 0.775 $\chi^2/\text{NDF}: 67.9/24$

Right Out: -11.361 ± 0.784 $\chi^2/\text{NDF}: 2331.1/31$

Left In: 4.911 ± 0.797 $\chi^2/\text{NDF}: 127.9/22$

Left: -2.814 ± 0.556 $\chi^2/\text{NDF}: 378.7/47$

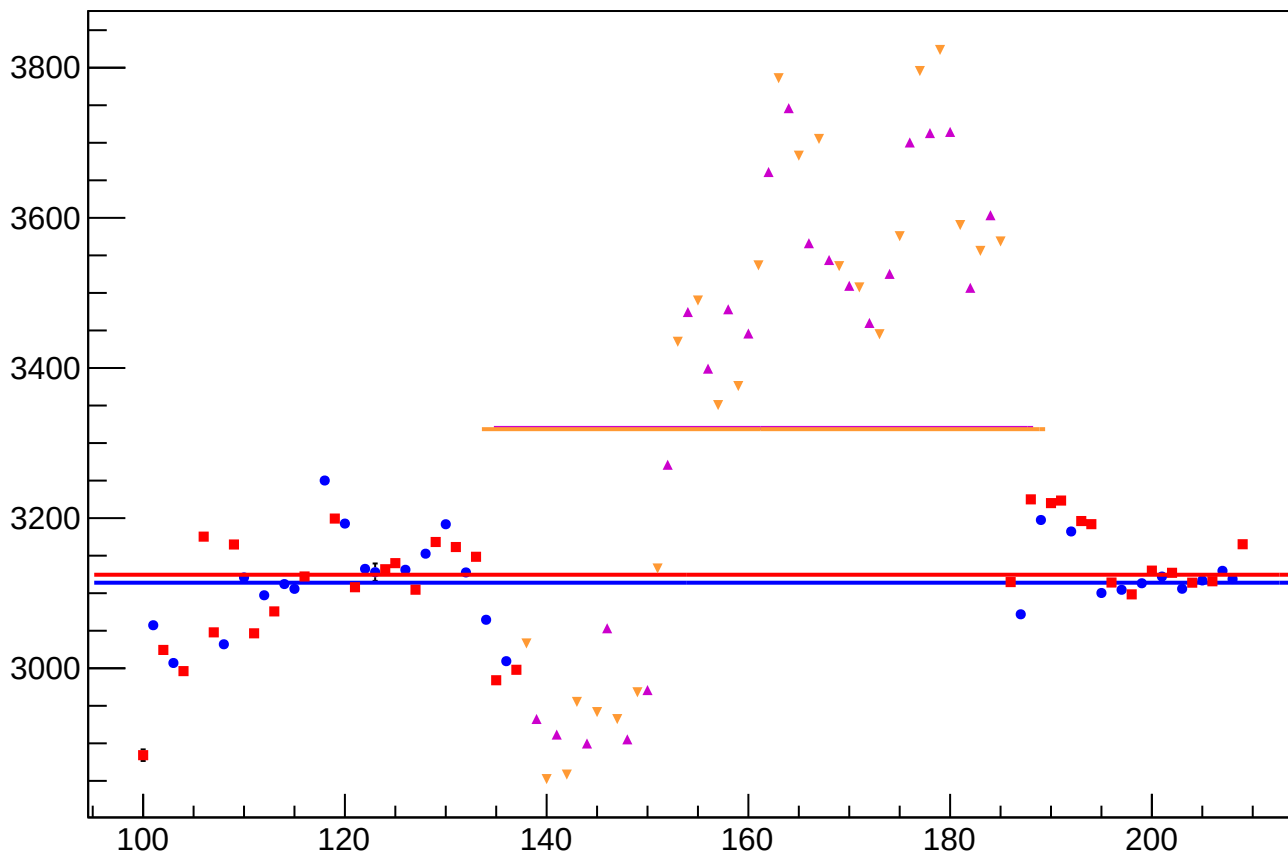
Right: -23.789 ± 0.567 $\chi^2/\text{NDF}: 3392.5/59$

In: -15.638 ± 0.572 $\chi^2/\text{NDF}: 2031.0/50$

Out: -10.736 ± 0.551 $\chi^2/\text{NDF}: 2400.3/56$

All: -13.098 ± 0.397 $\chi^2/\text{NDF}: 4469.4/107$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3113.975 $\pm$ 0.580 χ^2 /NDF: 9050.3/27

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3124.594 $\pm$ 0.554 χ^2 /NDF: 14000.0/31

Left In: 3320.170 $\pm$ 0.564 χ^2 /NDF:287634.9/22

Left: 3319.315 $\pm$ 0.393 χ^2 /NDF: 625333.6/47

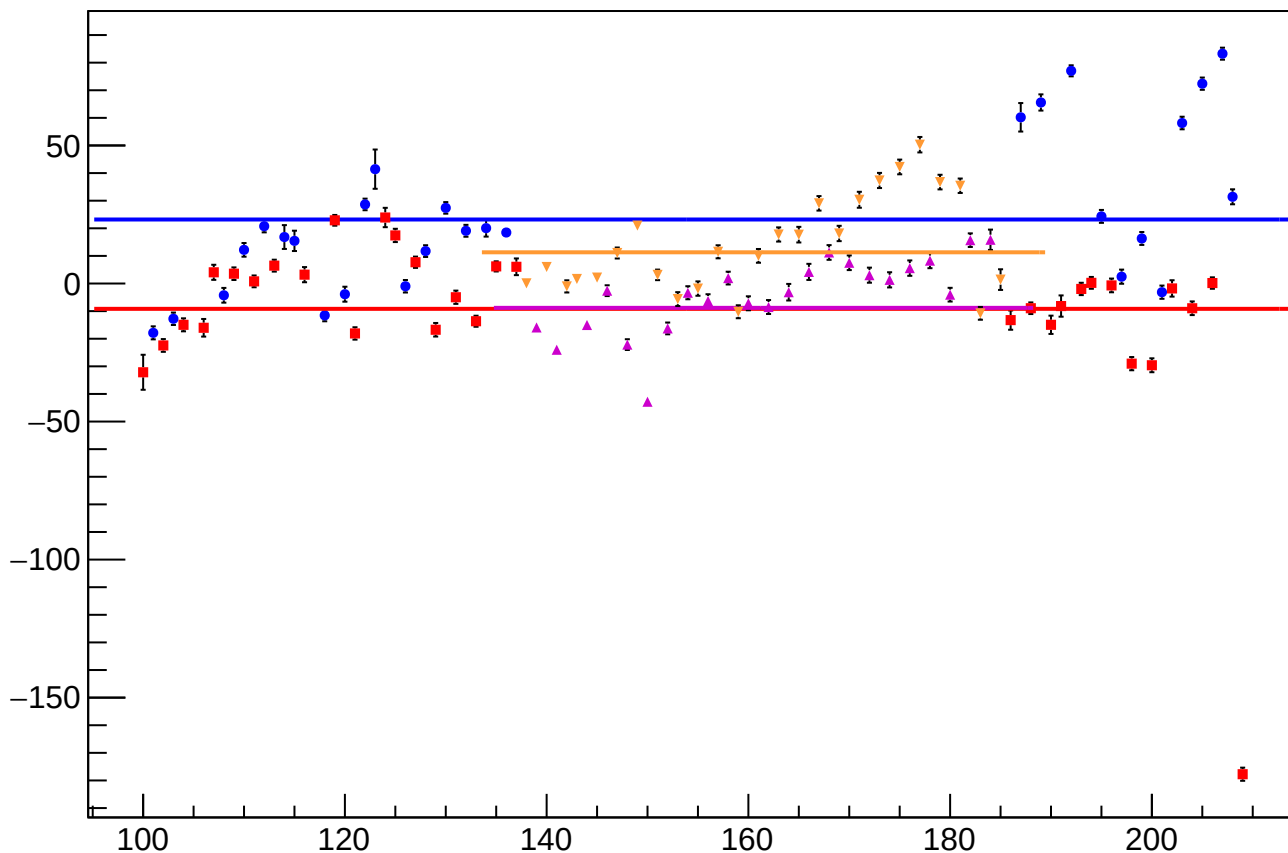
Right: 3119.526 $\pm$ 0.401 χ^2 /NDF: 23225.5/59

In: 3220.033 $\pm$ 0.404 χ^2 /NDF:361675.3/50

Out: 3222.593 $\pm$ 0.390 χ^2 /NDF:413552.2/56

All: 3221.359 $\pm$ 0.281 χ^2 /NDF: 775248.3/107

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 23.187 ± 0.447 $\chi^2/\text{NDF}: 3905.1/27$

Left Out: 11.305 ± 0.454 $\chi^2/\text{NDF}: 1144.3/24$

Right Out: -9.173 ± 0.431 $\chi^2/\text{NDF}: 6101.8/31$

Left In: -8.815 ± 0.475 $\chi^2/\text{NDF}: 942.2/22$

Left: 1.711 ± 0.328 $\chi^2/\text{NDF}: 3023.6/47$

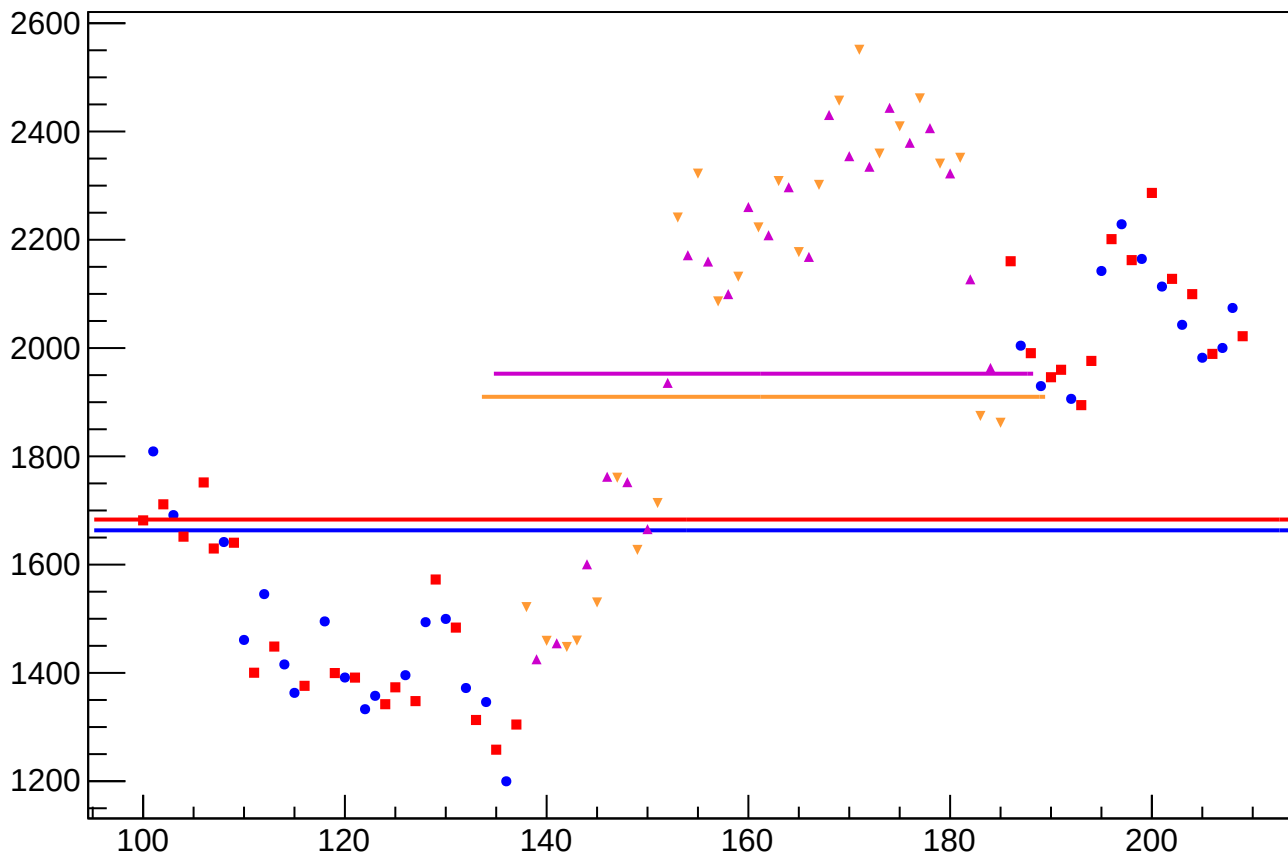
Right: 6.386 ± 0.310 $\chi^2/\text{NDF}: 12722.7/59$

In: 8.154 ± 0.326 $\chi^2/\text{NDF}: 7250.4/50$

Out: 0.527 ± 0.312 $\chi^2/\text{NDF}: 8317.6/56$

All: 4.180 ± 0.225 $\chi^2/\text{NDF}: 15853.5/107$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1663.333 $\pm$ 0.316 χ^2/NDF : 1083132.5/27

Left Out: 1909.963 $\pm$ 0.321 χ^2/NDF :1399467.7/24

Right Out: 1683.257 $\pm$ 0.304 χ^2/NDF : 1118376.0/31

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

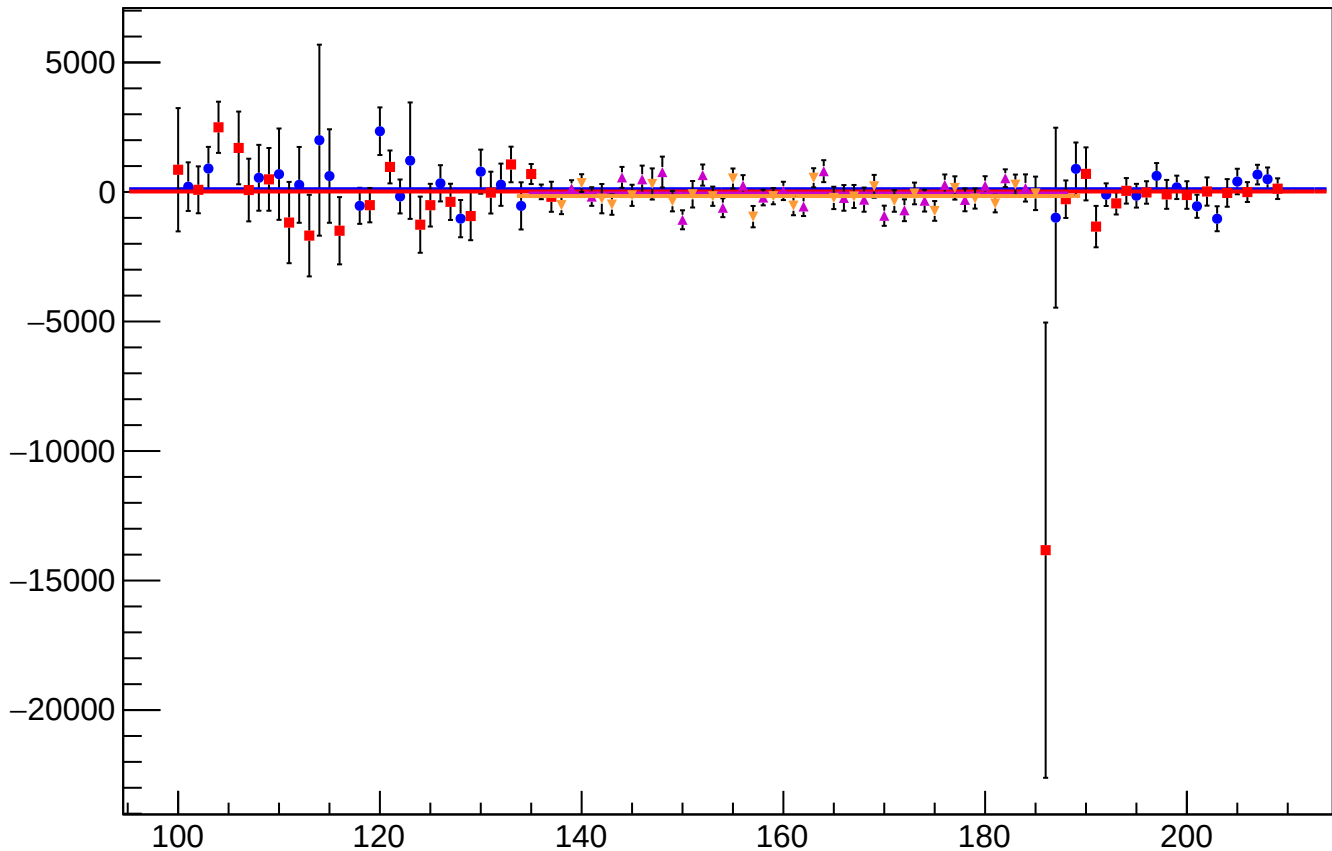
Right: 1673.677 $\pm$ 0.219 χ^2/NDF : 2203567.6/59

In: 1799.234 $\pm$ 0.230 χ^2/NDF :2541255.1/50

Out: 1790.651 $\pm$ 0.221 χ^2/NDF :2780478.9/56

All: 1794.762 $\pm$ 0.159 χ^2/NDF : 5322457.3/10

asym_sam1_mean vs Slug, Sign Corrected



Right In: 106.744+/-114.744 χ^2/NDF : 26.0/27

Left Out: -157.242+/-80.796 χ^2/NDF : 22.0/24

Right Out: 18.633+/-115.236 χ^2/NDF : 30.0/31

Left In: -58.934+/-82.584 χ^2/NDF : 38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

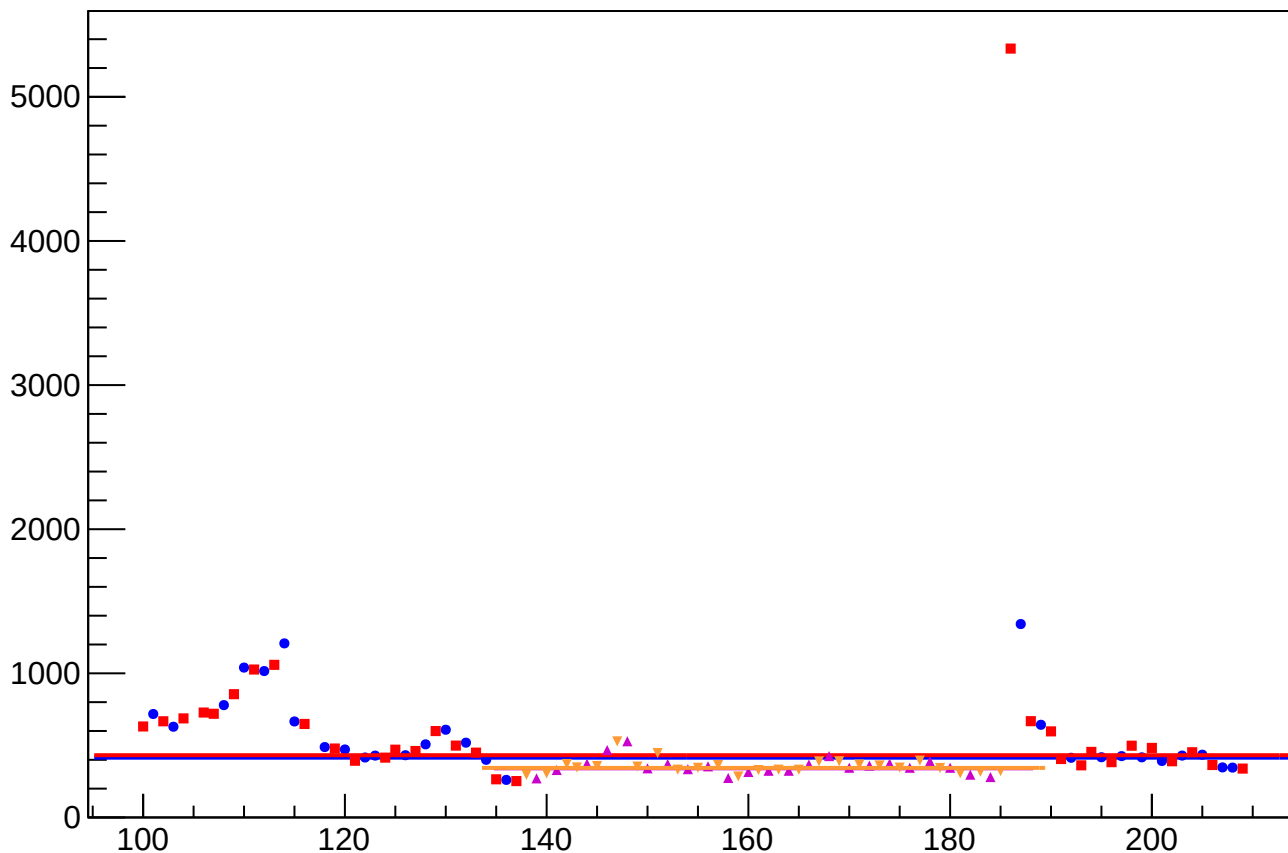
Right: 62.877+/-81.309 χ^2/NDF : 56.3/59

In: -2.397+/-67.029 χ^2/NDF : 65.9/50

Out: -99.278+/-66.155 χ^2/NDF : 53.6/56

All: -51.473+/-47.085 χ^2/NDF : 120.6/107

asym_sam1_rms vs Slug, Sign Corrected



Right In: 414.900+/-0.081 χ^2/NDF : 2383076.0/27

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 431.871+/-0.081 χ^2/NDF : 3264256.5/31

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

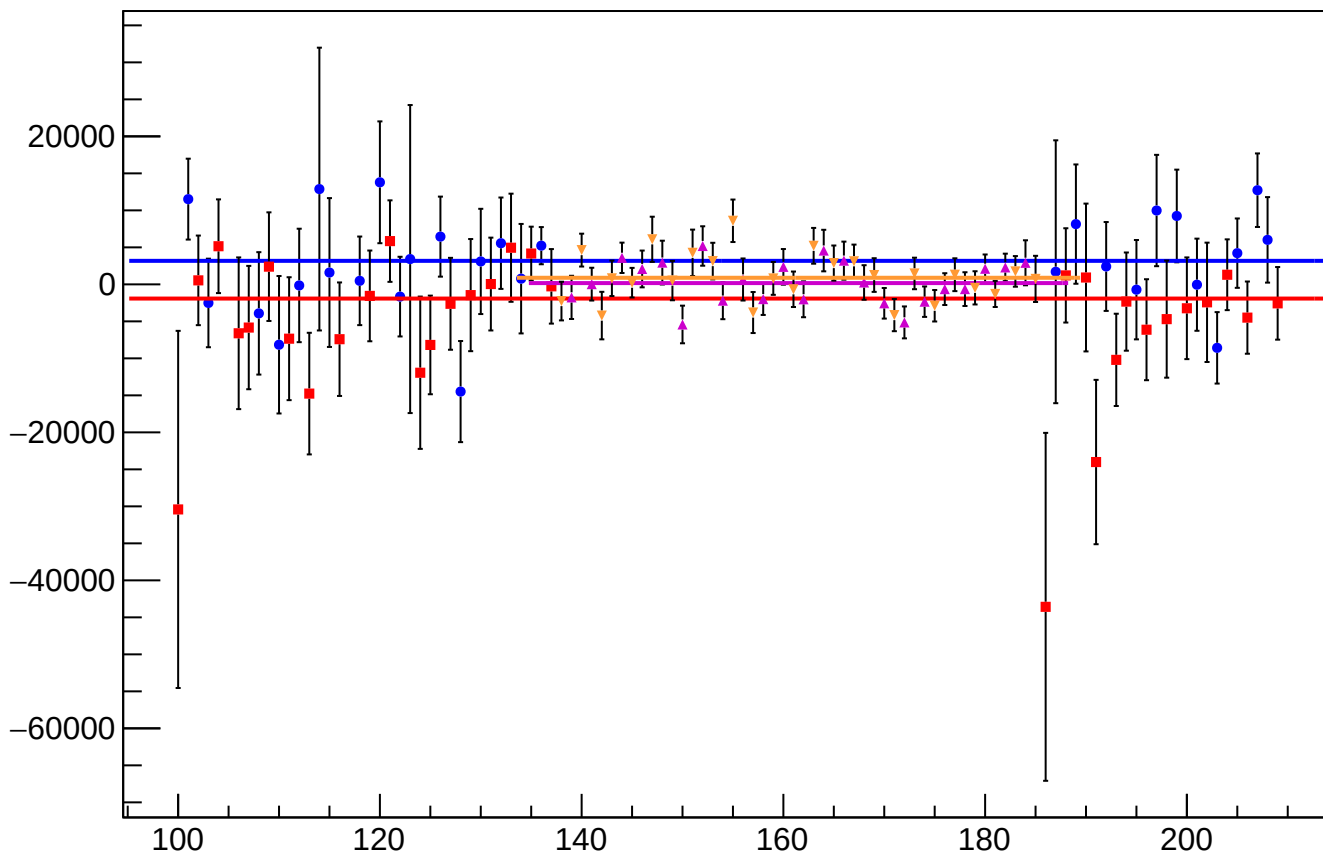
Right: 423.349+/-0.057 χ^2/NDF : 5669113.5/59

In: 366.136+/-0.047 χ^2/NDF : 3656074.8/50

Out: 372.830+/-0.047 χ^2/NDF : 4586762.3/56

All: 369.527+/-0.033 χ^2/NDF : 8252941.9/107

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3177.912 $\pm$ 1138.554 χ^2 /NDF: 29.3/27

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -1918.672 $\pm$ 1169.348 χ^2 /NDF: 25.2/31

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

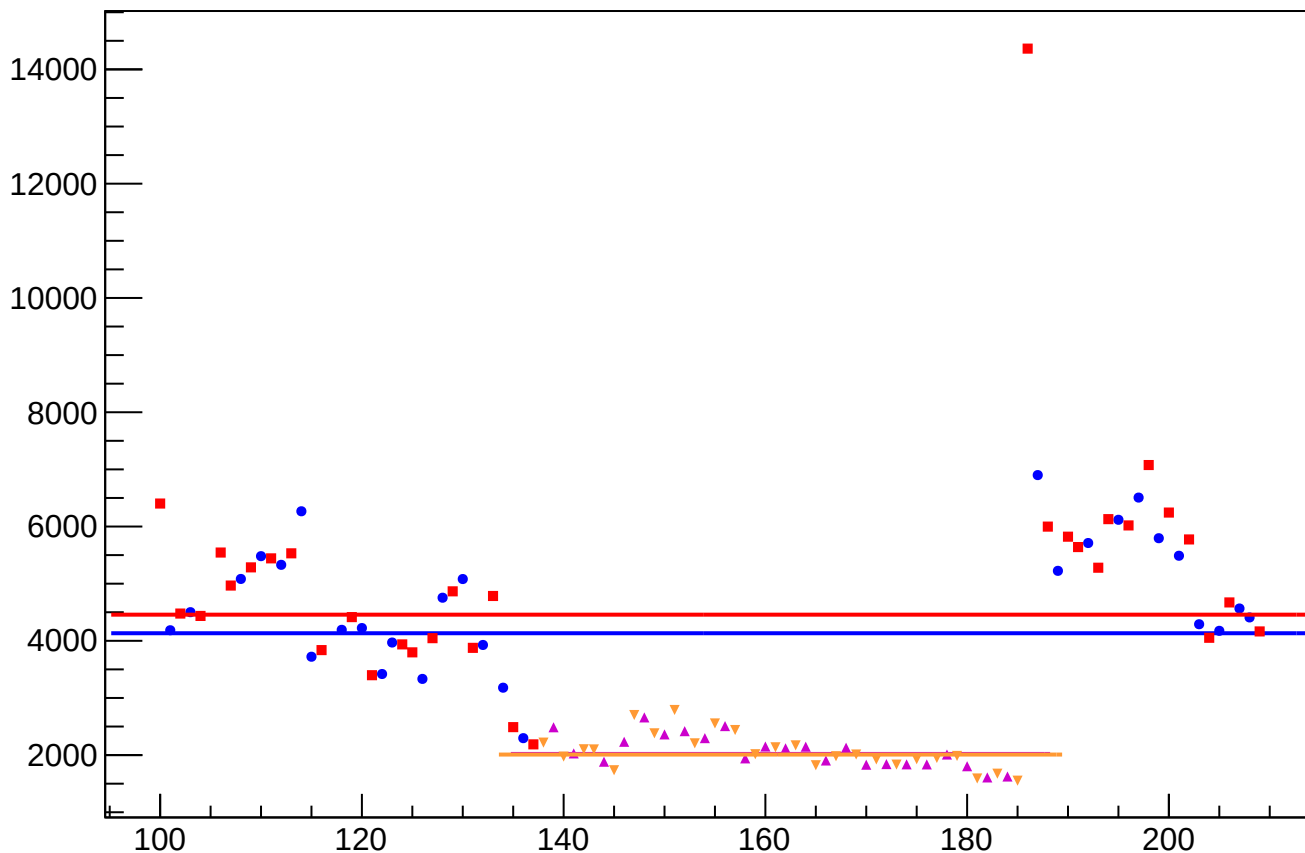
Right: 697.612 $\pm$ 815.749 χ^2 /NDF: 64.2/59

In: 638.952 $\pm$ 448.588 χ^2 /NDF:68.3/50

Out: 495.029 $\pm$ 438.695 χ^2 /NDF:68.1/56

All: 565.386 $\pm$ 313.643 χ^2 /NDF: 136.5/107

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4132.688+/-0.805 χ^2/NDF : 2244140.6/27

Left Out: 2009.631+/-0.335 χ^2/NDF : 709977.6/24

Right Out: 4457.678+/-0.827 χ^2/NDF : 2503917.8/31

Left In: 2020.365+/-0.345 χ^2/NDF : 573483.0/22

Left: 2014.833+/-0.240 χ^2/NDF : 1283959.2/47

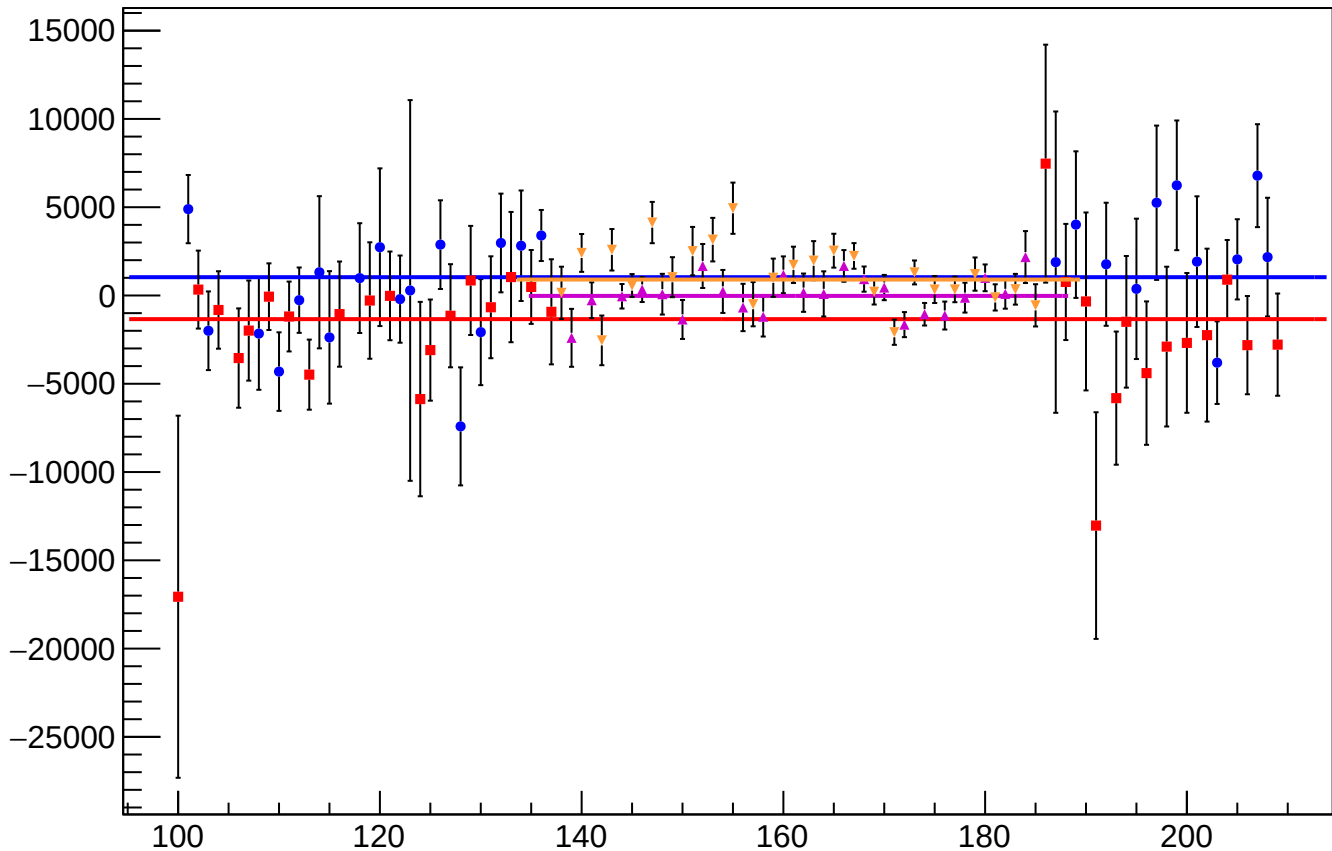
Right: 4290.848+/-0.577 χ^2/NDF : 4827361.2/59

In: 2348.271+/-0.317 χ^2/NDF : 8633024.1/50

Out: 2354.185+/-0.310 χ^2/NDF : 10745770.9/56

All: 2351.294+/-0.222 χ^2/NDF : 19378972.6/100

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1036.121+/-528.497 χ^2/NDF : 37.9/27

Left Out: 902.091+/-185.850 χ^2/NDF : 63.5/24

Right Out: -1339.702+/-518.474 χ^2/NDF : 19.1/31

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

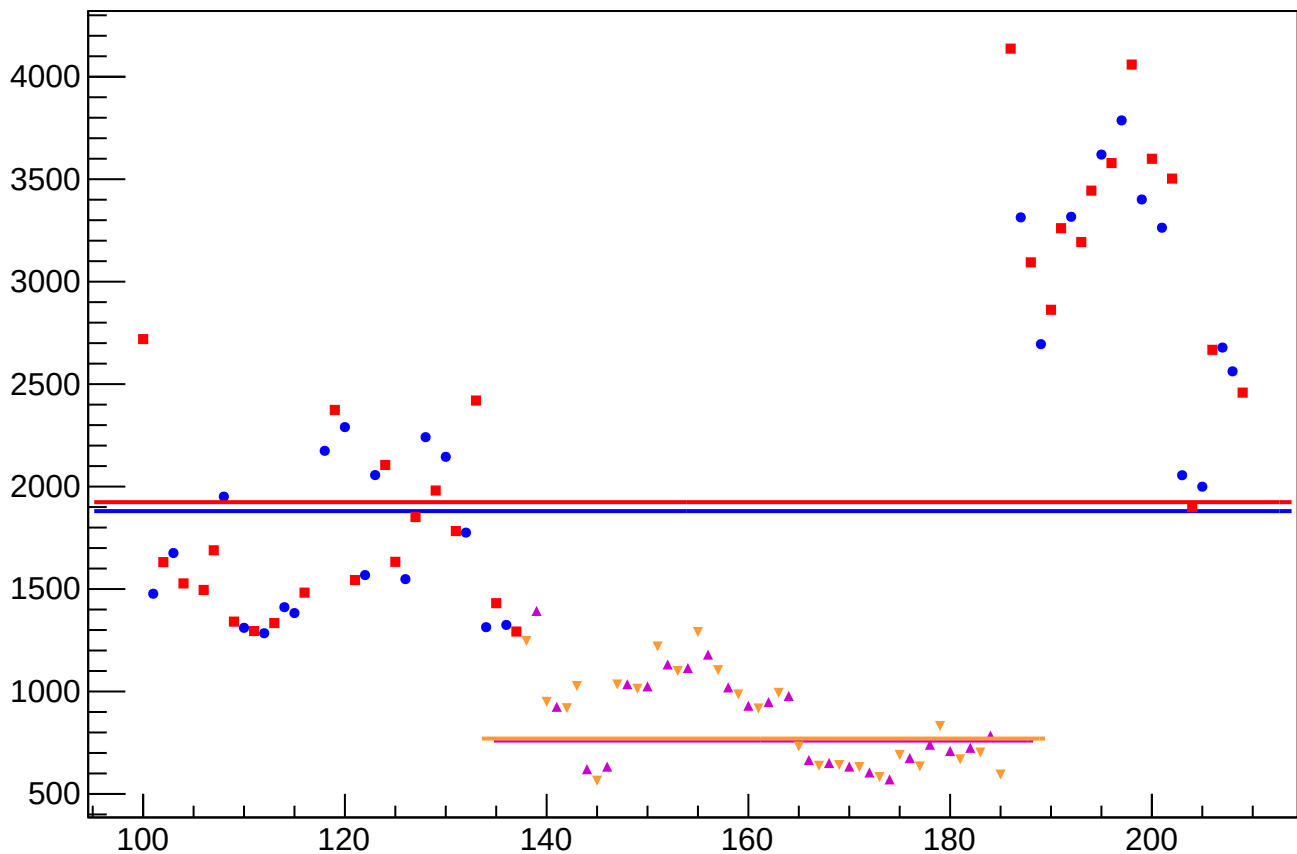
Right: -174.532+/-370.109 χ^2/NDF : 67.3/59

In: 95.651+/-177.241 χ^2/NDF : 69.7/50

Out: 646.840+/-174.950 χ^2/NDF : 99.2/56

All: 374.831+/-124.510 χ^2/NDF : 173.7/107

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1880.246 $\pm$ 0.374 χ^2 /NDF: 3115408.4/27

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF: 2287655.1/24

Right Out: 1924.016 $\pm$ 0.367 χ^2 /NDF: 3875079.7/31

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

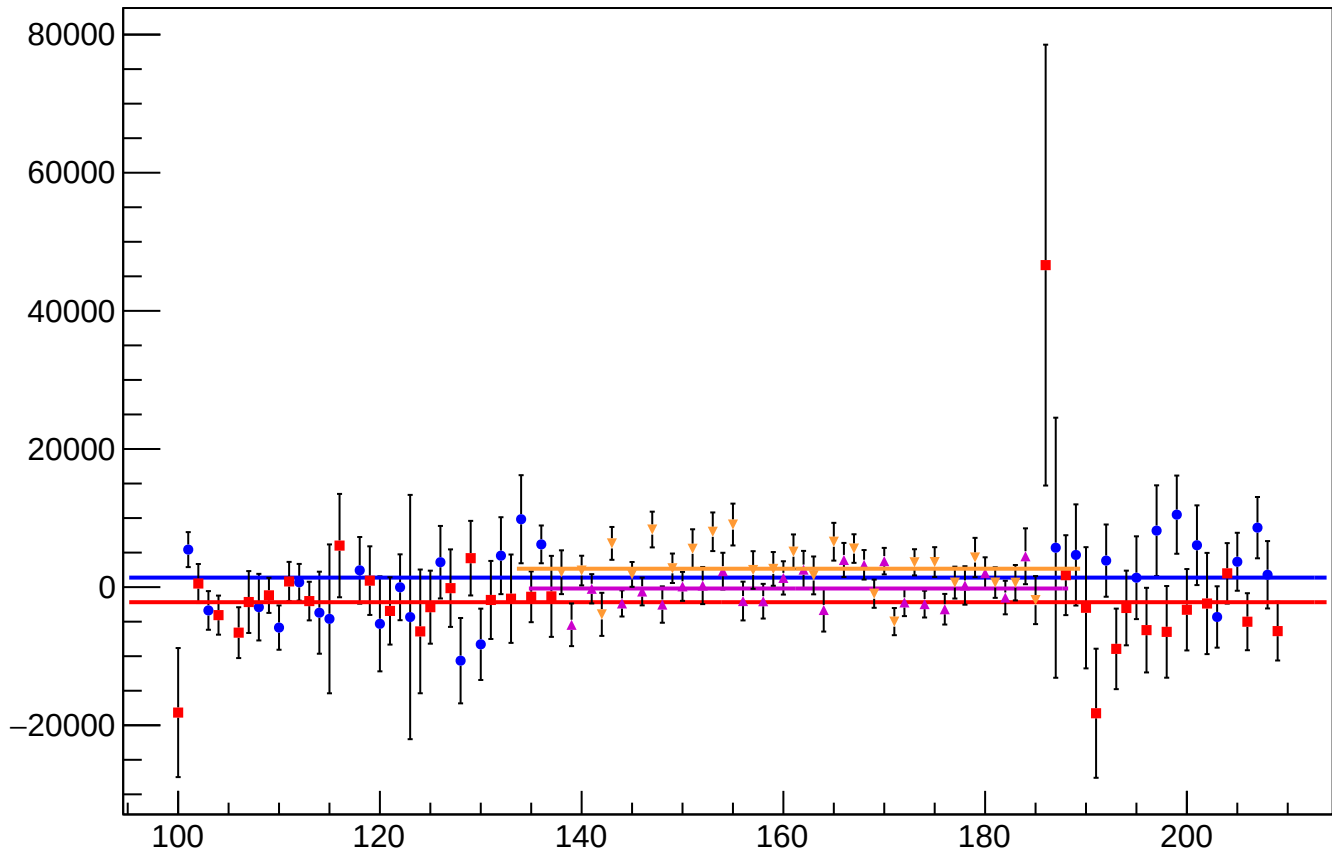
Right: 1902.550 $\pm$ 0.262 χ^2 /NDF: 6997478.6/59

In: 886.308 $\pm$ 0.125 χ^2 /NDF: 13072572.9/50

Out: 901.680 $\pm$ 0.124 χ^2 /NDF: 14938000.7/56

All: 894.094 $\pm$ 0.088 χ^2 /NDF: 28018193.3/10

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1378.992 $\pm$ 852.966 χ^2 /NDF: 35.7/27

Left Out: 2665.587 $\pm$ 479.773 χ^2 /NDF:49.2/24

Right Out: -2180.921 $\pm$ 803.592 χ^2 /NDF: 20.9/31

Left In: -199.371 $\pm$ 492.082 χ^2 /NDF:25.8/22

Left: 1269.388 $\pm$ 343.520 χ^2 /NDF: 92.4/47

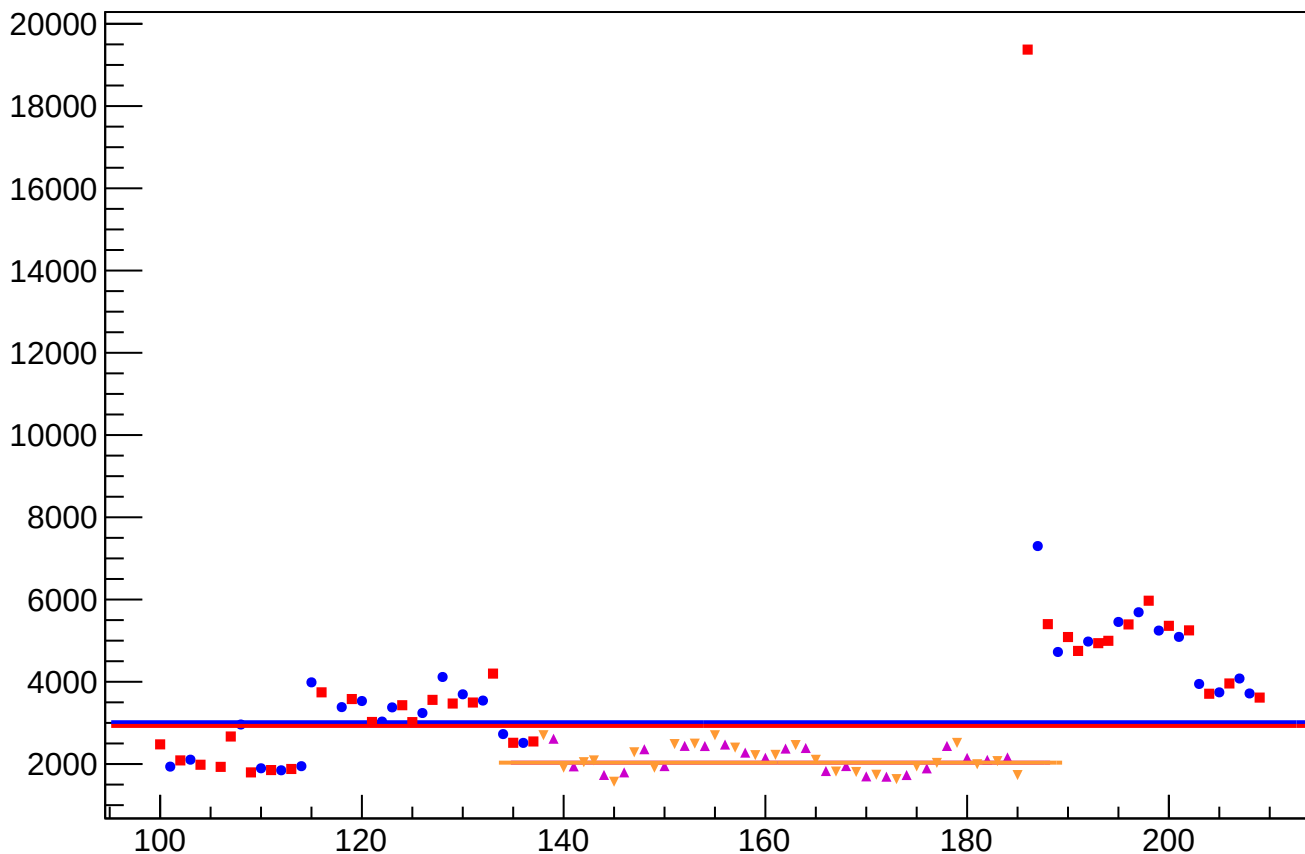
Right: -506.974 $\pm$ 584.902 χ^2 /NDF: 65.8/59

In: 194.765 $\pm$ 426.237 χ^2 /NDF:64.0/50

Out: 1392.011 $\pm$ 411.940 χ^2 /NDF:96.9/56

All: 813.804 $\pm$ 296.211 χ^2 /NDF: 165.0/107

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3016.402 $\pm$ 0.603

χ^2 /NDF: 3530831.1/27

Left: 2033.004 $\pm$ 0.243

χ^2 /NDF: 1476827.9/47

Left Out: 2033.337 $\pm$ 0.339

χ^2 /NDF: 824062.2/24

Right: 2968.894 $\pm$ 0.414

χ^2 /NDF: 8463306.4/59

Right Out: 2926.728 $\pm$ 0.568

χ^2 /NDF: 4920764.4/31

In: 2278.308 $\pm$ 0.301

χ^2 /NDF: 6179597.8/50

Out: 2268.104 $\pm$ 0.291

χ^2 /NDF: 7567199.6/56

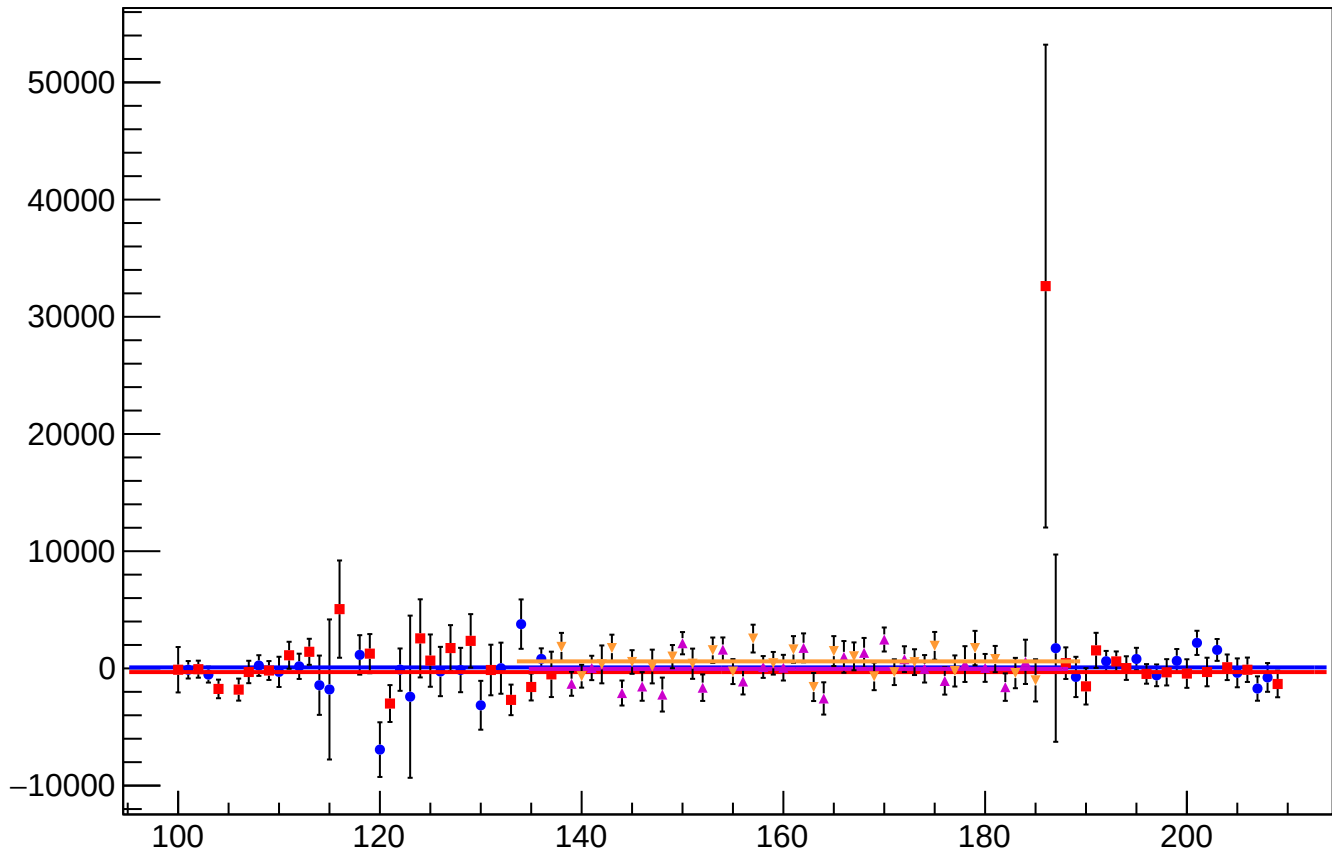
Left In: 2032.655 $\pm$ 0.348

χ^2 /NDF: 652763.7/22

All: 2273.032 $\pm$ 0.209

χ^2 /NDF: 13747390.0/1

asym_sam5_mean vs Slug, Sign Corrected



Right In: 85.575 ± 227.085 χ^2/NDF : 29.6/27

Left Out: 600.005 ± 234.968 χ^2/NDF : 18.5/24

Right Out: -314.490 ± 211.475 χ^2/NDF : 30.7/31

Left In: -41.559 ± 240.807 χ^2/NDF : 36.4/22

Left: 287.096 ± 168.174 χ^2/NDF : 58.5/47

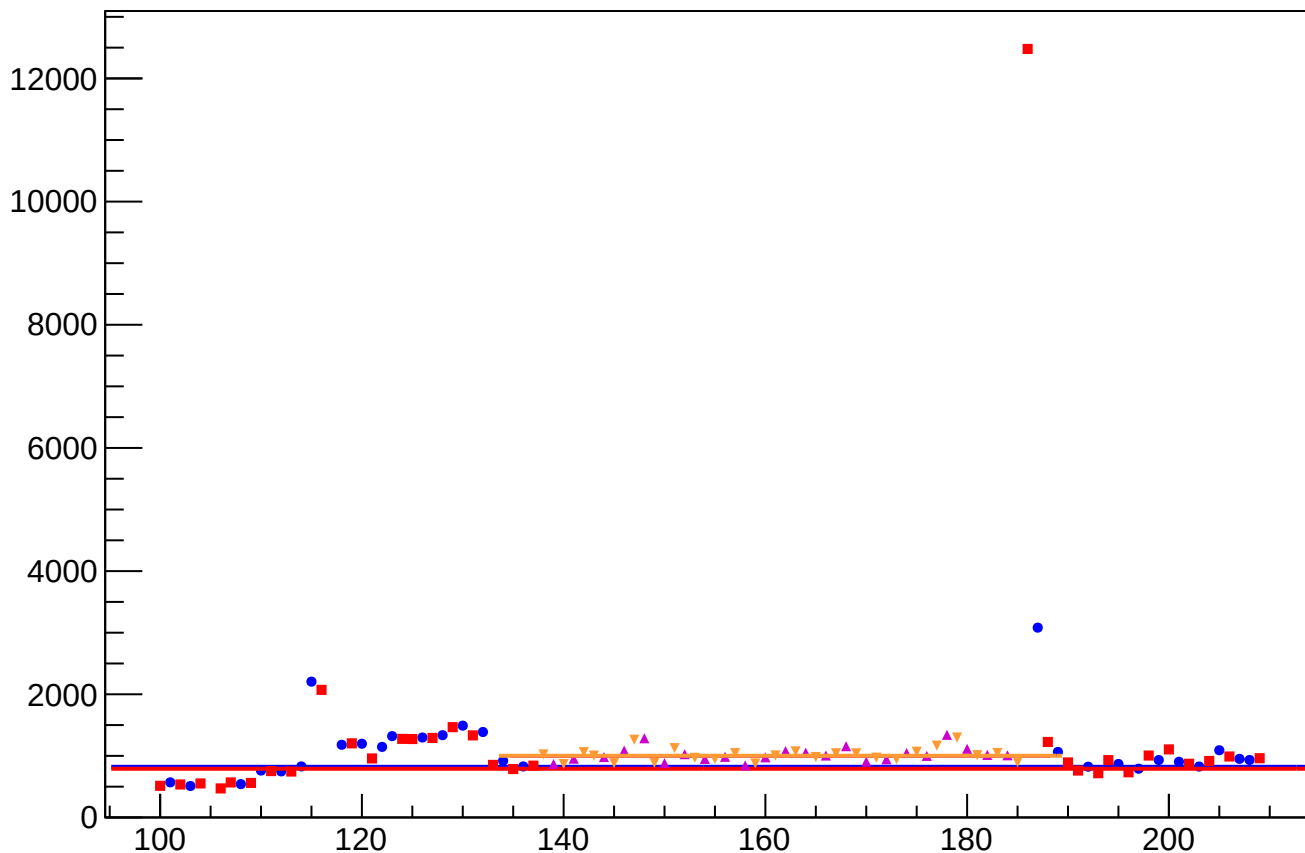
Right: -128.679 ± 154.760 χ^2/NDF : 61.9/59

In: 25.733 ± 165.212 χ^2/NDF : 66.1/50

Out: 94.767 ± 157.187 χ^2/NDF : 57.5/56

All: 61.968 ± 113.879 χ^2/NDF : 123.7/107

asym_sam5_rms vs Slug, Sign Corrected



Right In: 822.438+/-0.161 χ^2/NDF : 2168498.6/27

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 790.991+/-0.150 χ^2/NDF : 3169873.5/31

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

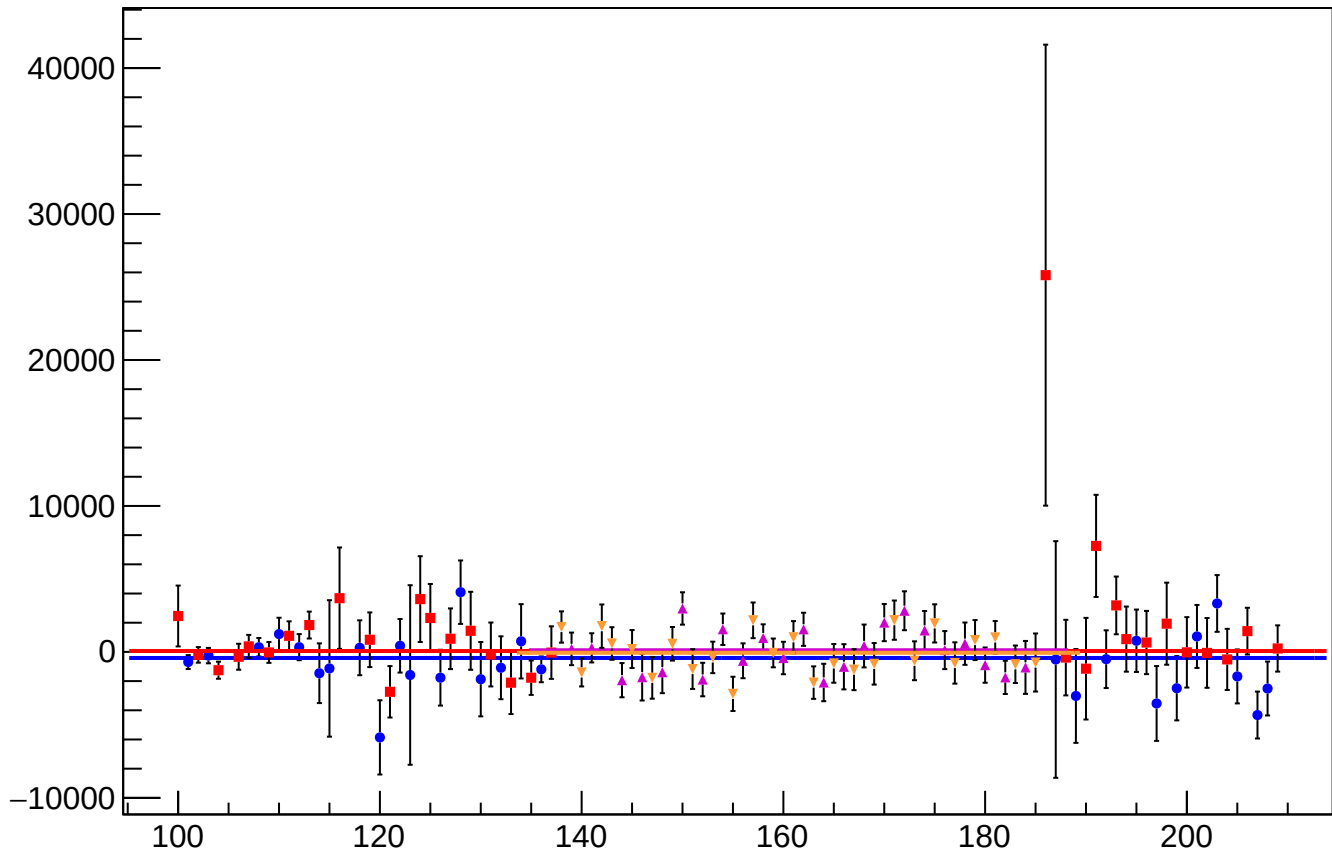
Right: 805.596+/-0.109 χ^2/NDF : 5358913.6/59

In: 905.098+/-0.117 χ^2/NDF : 3136145.4/50

Out: 885.186+/-0.111 χ^2/NDF : 4426825.2/56

All: 894.647+/-0.081 χ^2/NDF : 7578220.6/107

asym_sam6_mean vs Slug, Sign Corrected



Right In: -415.761 ± 233.694 χ^2/NDF : 31.2/27

Left Out: -59.827 ± 246.503 χ^2/NDF : 31.0/24

Right Out: 60.616 ± 229.572 χ^2/NDF : 32.9/31

Left In: 112.398 ± 255.409 χ^2/NDF : 34.9/22

Left: 23.230 ± 177.369 χ^2/NDF : 66.1/47

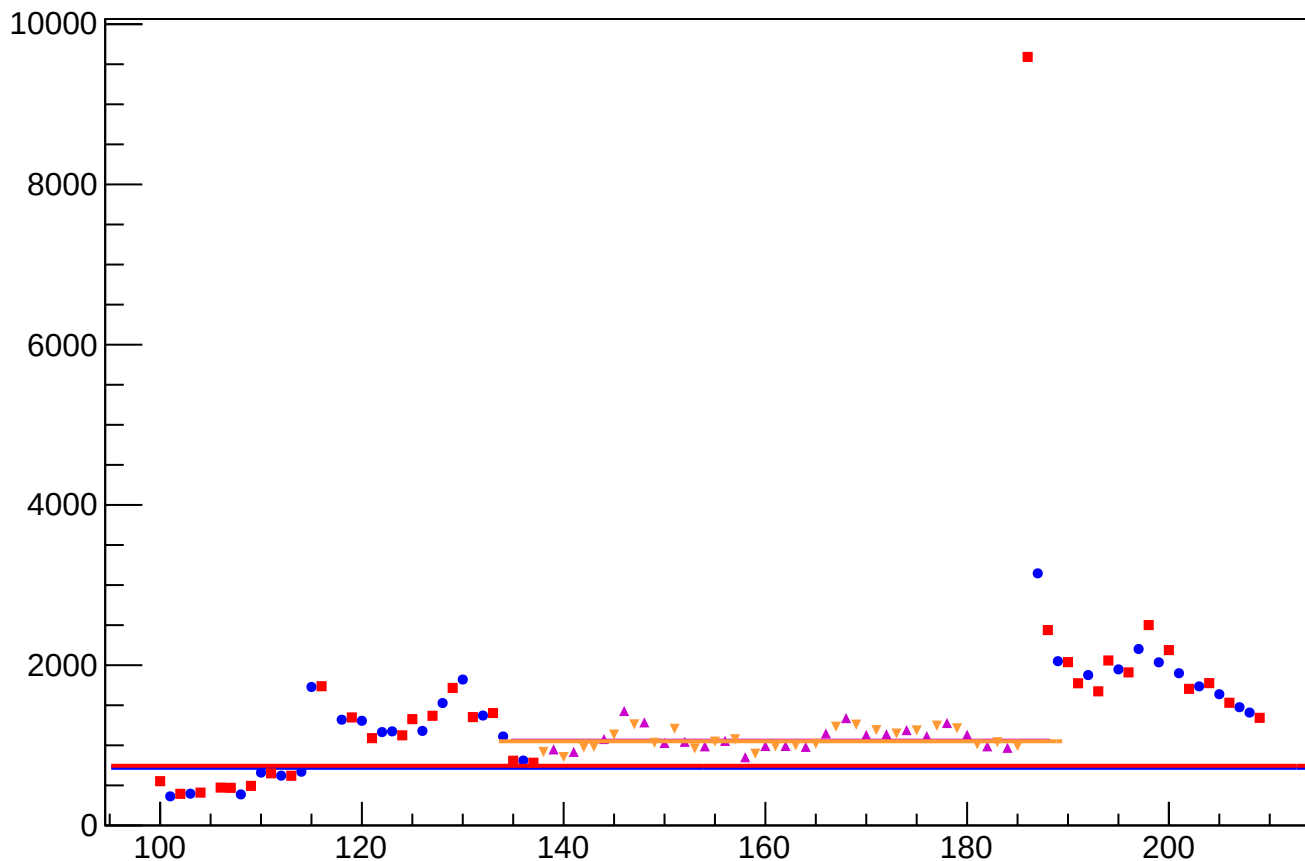
Right: -173.333 ± 163.770 χ^2/NDF : 66.2/59

In: -175.084 ± 172.414 χ^2/NDF : 68.4/50

Out: 4.672 ± 167.999 χ^2/NDF : 64.0/56

All: -82.875 ± 120.324 χ^2/NDF : 133.0/107

asym_sam6_rms vs Slug, Sign Corrected



Right In: 719.321+/-0.165 χ^2/NDF : 9619094.4/27

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 744.889+/-0.162 χ^2/NDF : 10385198.7/31

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

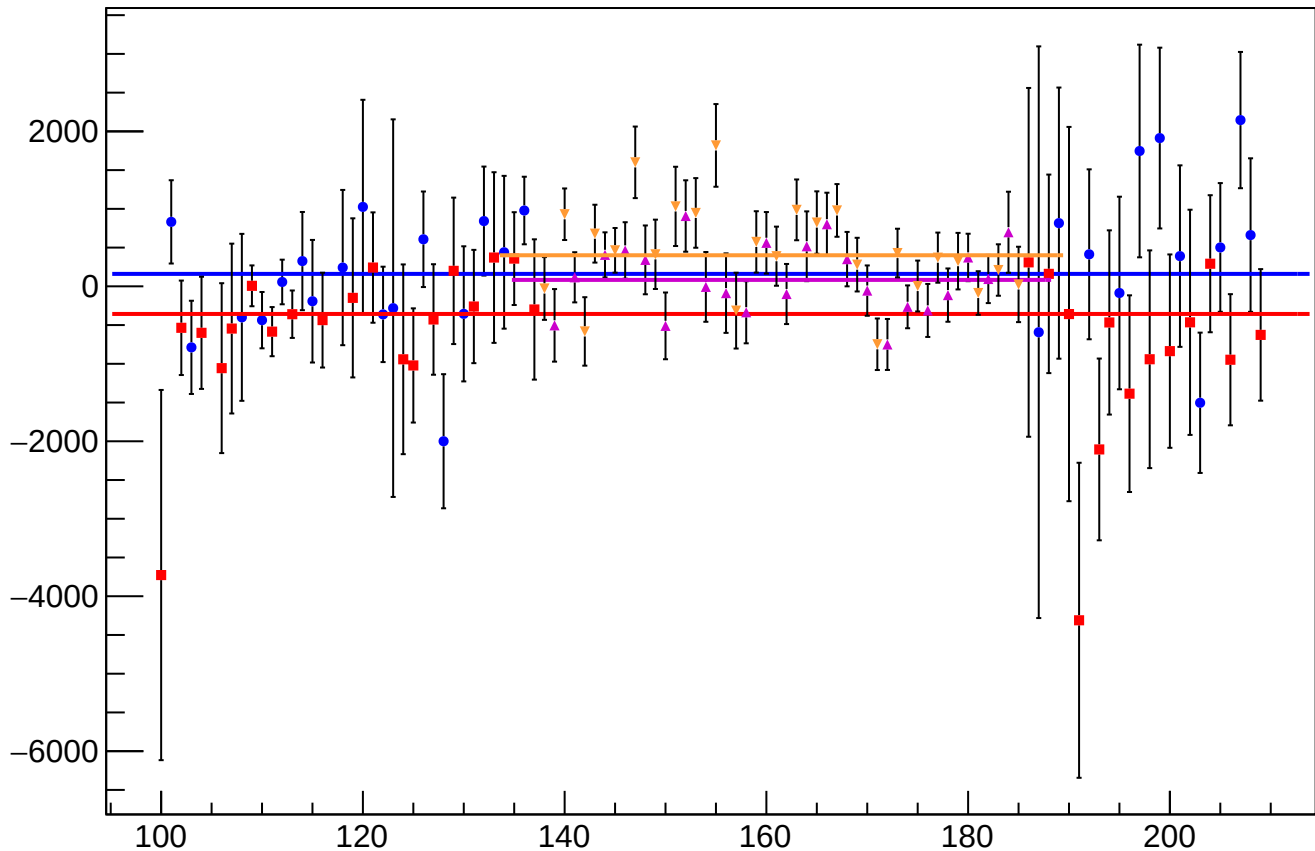
Right: 732.333+/-0.116 χ^2/NDF : 20016476.1/59

In: 873.698+/-0.122 χ^2/NDF : 12062925.2/50

Out: 886.909+/-0.119 χ^2/NDF : 12516206.4/56

All: 880.475+/-0.085 χ^2/NDF : 24585154.8/10

asym_sam7_mean vs Slug, Sign Corrected



Right In: 160.537 ± 131.794 $\chi^2/\text{NDF}: 33.0/27$

Left Out: 400.988 ± 74.546 $\chi^2/\text{NDF}: 52.1/24$

Right Out: -356.586 ± 121.002 $\chi^2/\text{NDF}: 17.5/31$

Left In: 82.890 ± 76.904 $\chi^2/\text{NDF}: 29.0/22$

Left: 246.889 ± 53.526 $\chi^2/\text{NDF}: 89.9/47$

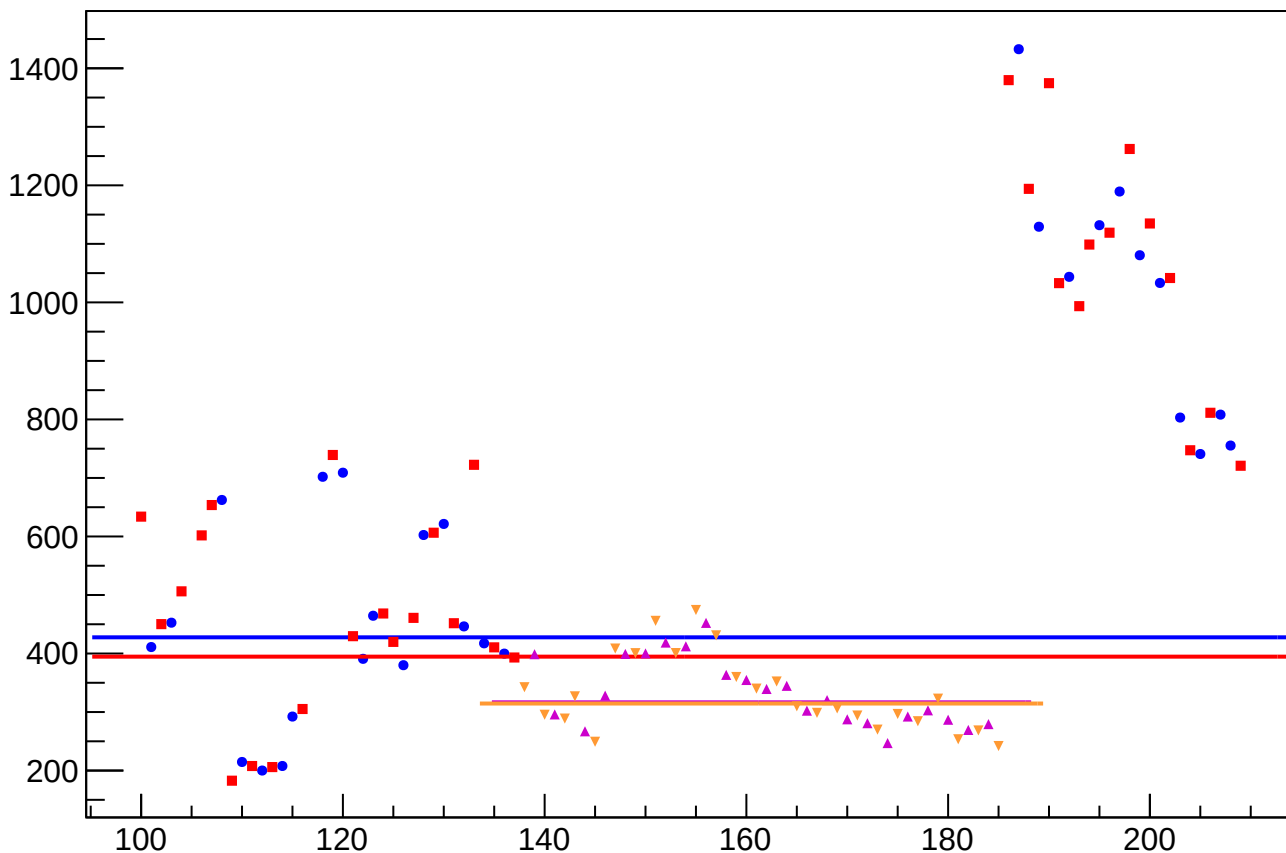
Right: -120.062 ± 89.133 $\chi^2/\text{NDF}: 58.8/59$

In: 102.612 ± 66.423 $\chi^2/\text{NDF}: 62.3/50$

Out: 192.559 ± 63.468 $\chi^2/\text{NDF}: 97.9/56$

All: 149.631 ± 45.888 $\chi^2/\text{NDF}: 161.1/107$

asym_sam7_rms vs Slug, Sign Corrected



Right In: 427.667 $\pm$ 0.093

χ^2 /NDF: 7520105.3/27

Left: 315.560 $\pm$ 0.038

χ^2 /NDF: 2034094.8/47

Left Out: 314.538 $\pm$ 0.053

χ^2 /NDF: 1112445.6/24

Right: 409.753 $\pm$ 0.063

χ^2 /NDF: 17717170.3/59

Right Out: 394.653 $\pm$ 0.086

χ^2 /NDF: 10128968.1/31

In: 344.846 $\pm$ 0.047

χ^2 /NDF: 9499683.9/50

Out: 336.580 $\pm$ 0.045

χ^2 /NDF: 11876935.5/56

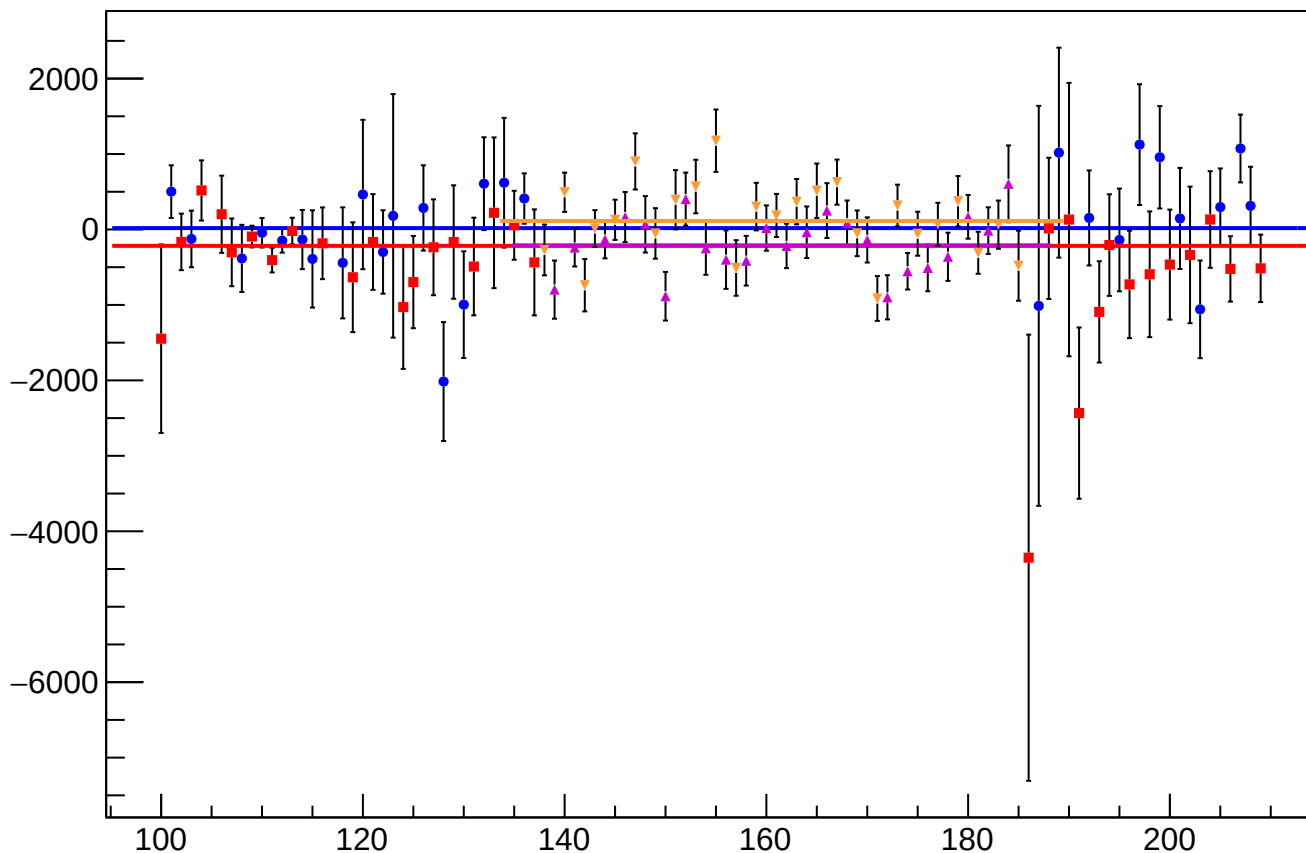
Left In: 316.647 $\pm$ 0.054

χ^2 /NDF: 920874.0/22

All: 340.525 $\pm$ 0.032

χ^2 /NDF: 21392811.9/10

asym_sam8_mean vs Slug, Sign Corrected



Right In: 18.196 ± 82.267 χ^2/NDF : 30.8/27

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -216.779 ± 71.638 χ^2/NDF : 20.9/31

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

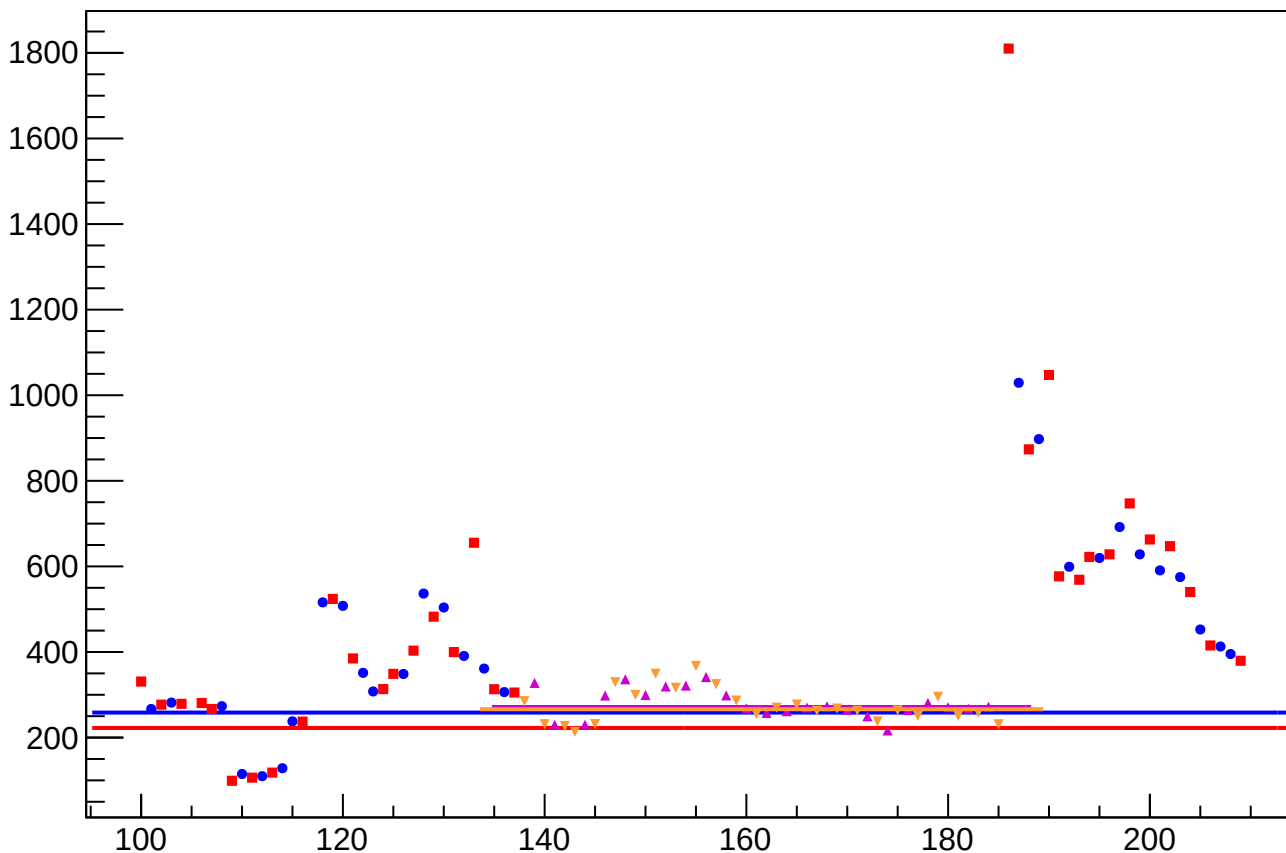
Right: -115.443 ± 54.025 χ^2/NDF : 56.3/59

In: -121.727 ± 51.247 χ^2/NDF : 64.7/50

Out: -30.328 ± 47.157 χ^2/NDF : 82.0/56

All: -72.235 ± 34.701 χ^2/NDF : 148.4/107

asym_sam8_rms vs Slug, Sign Corrected



Right In: 258.440+/-0.058 χ^2/NDF : 8758924.1/27

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 222.457+/-0.051 χ^2/NDF : 12098742.2/31

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

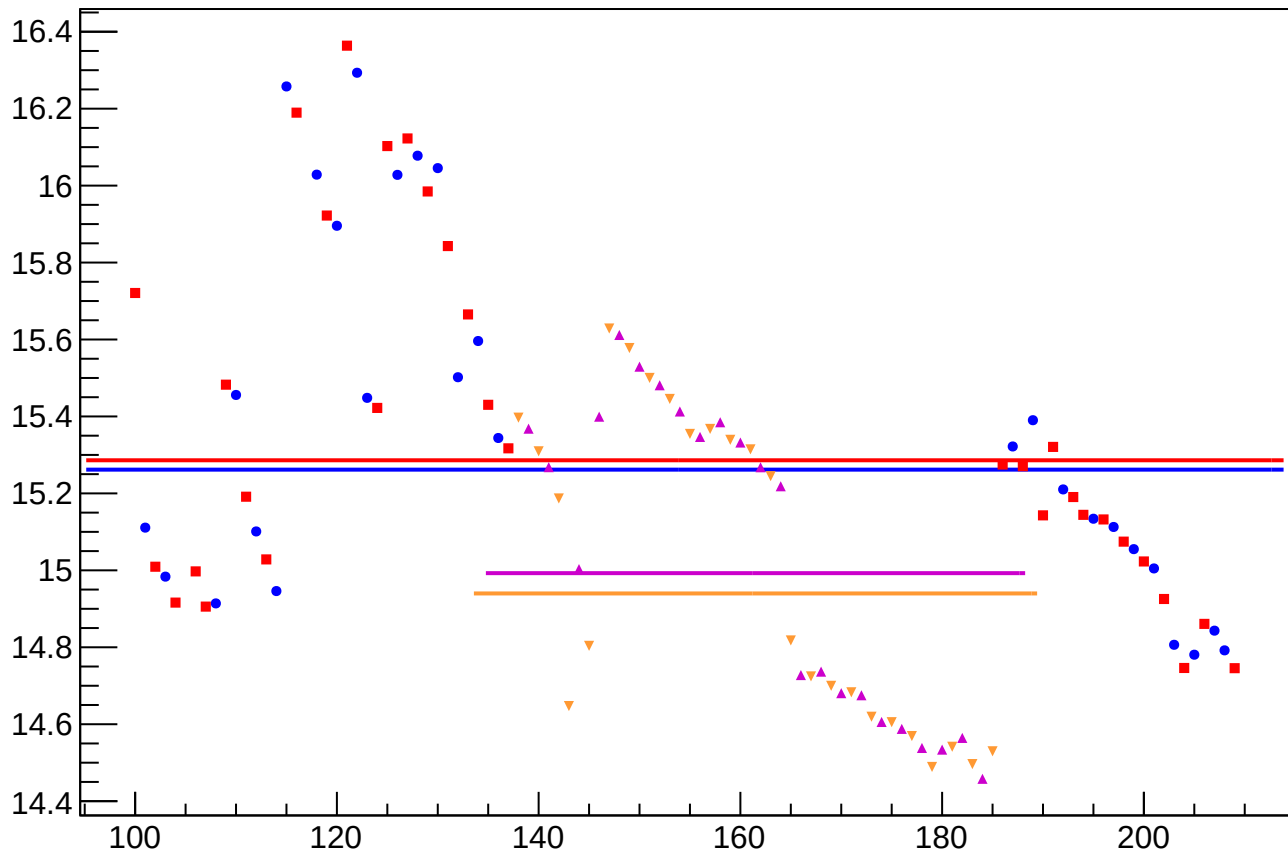
Right: 237.975+/-0.038 χ^2/NDF : 21075278.0/59

In: 266.380+/-0.036 χ^2/NDF : 9311247.8/50

Out: 247.249+/-0.033 χ^2/NDF : 13171092.4/56

All: 256.021+/-0.025 χ^2/NDF : 22633257.6/100

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.262 $\pm$ 0.000 χ^2/NDF : 15249691675.0/27

Left Out: 14.940 $\pm$ 0.000 χ^2/NDF : 24199653913.9/24

Right Out: 15.286 $\pm$ 0.000 χ^2/NDF : 14772481473.1/31

Left In: 14.993 $\pm$ 0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965 $\pm$ 0.000 χ^2/NDF : 46444749587.5/47

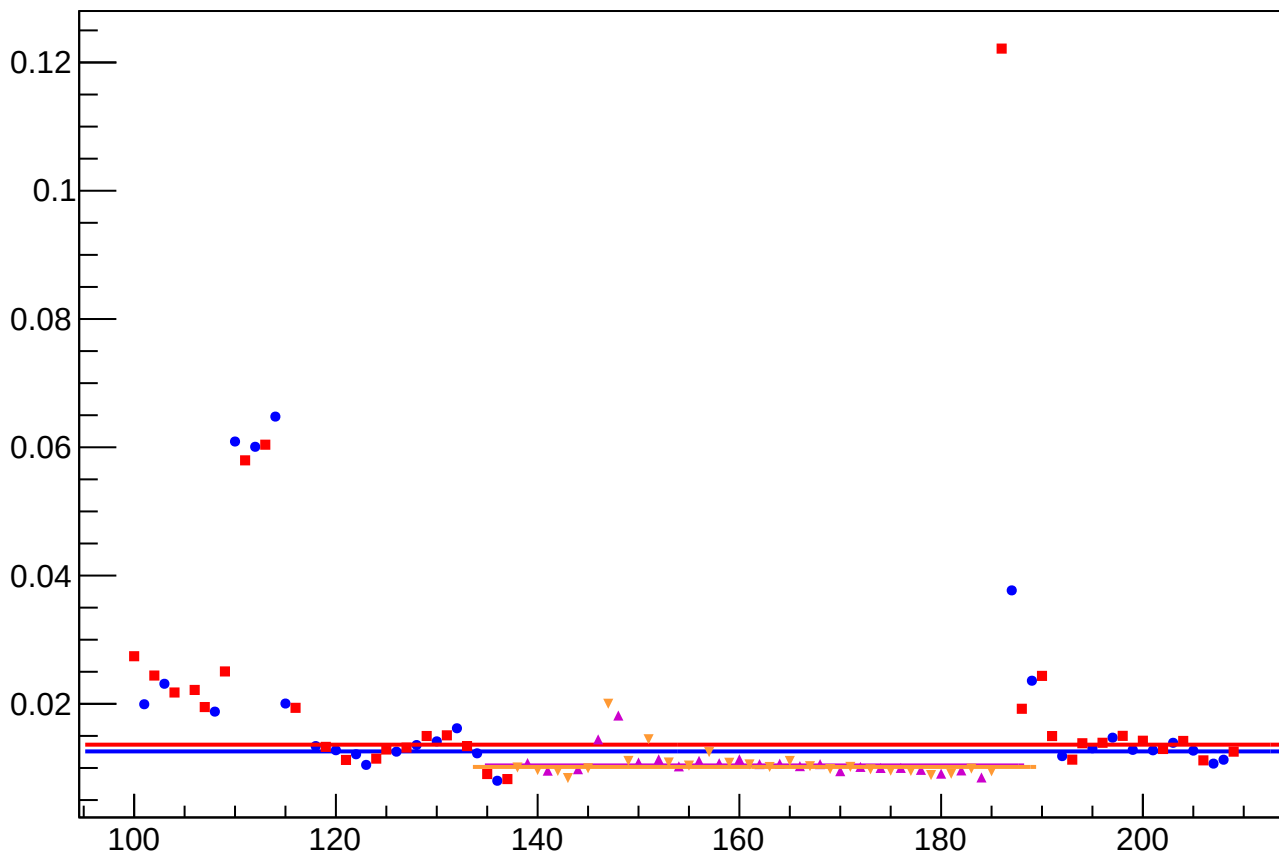
Right: 15.273 $\pm$ 0.000 χ^2/NDF : 30044439293.0/59

In: 15.084 $\pm$ 0.000 χ^2/NDF : 41023072098.5/50

Out: 15.044 $\pm$ 0.000 χ^2/NDF : 45012167693.1/56

All: 15.064 $\pm$ 0.000 χ^2/NDF : 86223910207.8

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2571560.6/27

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 3098393.7/31

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

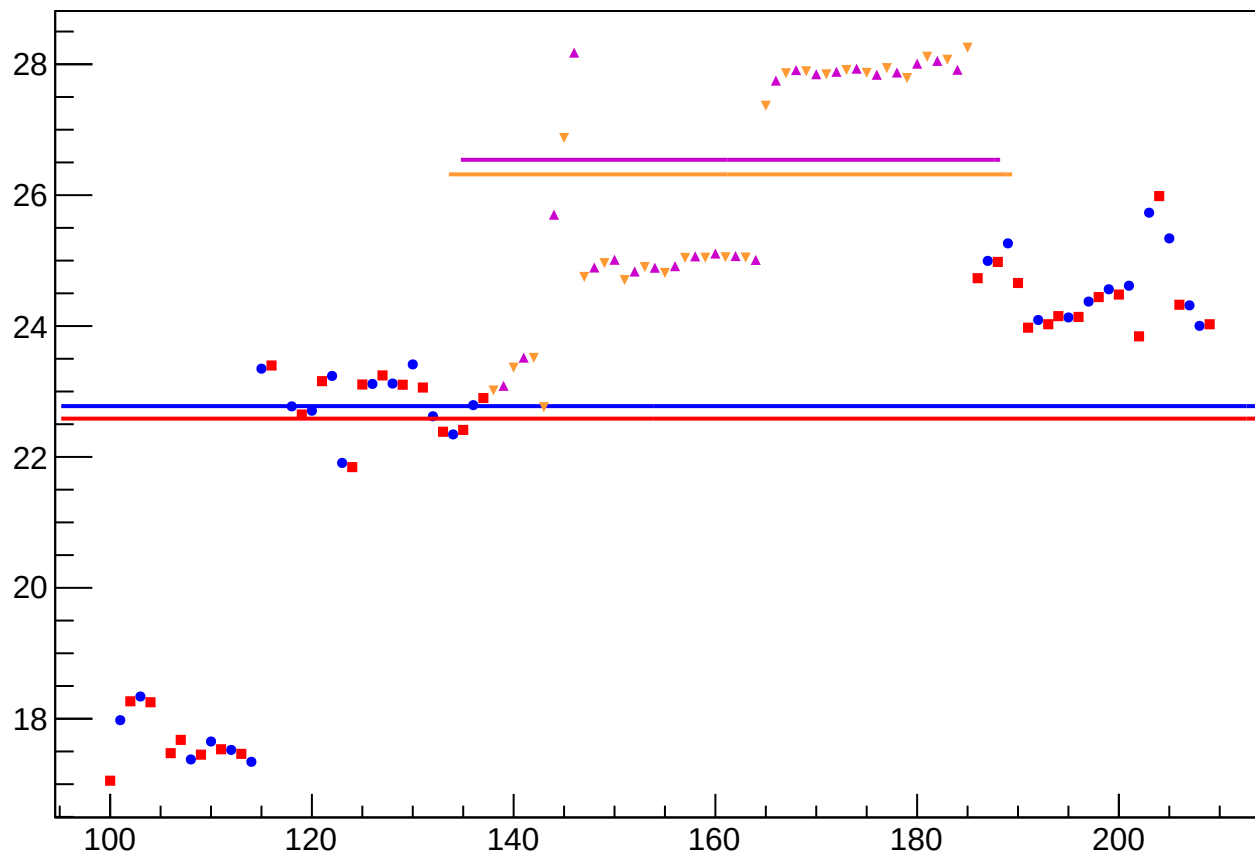
Right: 0.013+/-0.000 χ^2/NDF : 5752955.2/59

In: 0.011+/-0.000 χ^2/NDF : 3611721.0/50

Out: 0.011+/-0.000 χ^2/NDF : 5031154.7/56

All: 0.011+/-0.000 χ^2/NDF : 8643944.5/107

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.776+/-0.000

χ^2/NDF : 1324229469.1/27

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right Out: 22.585+/-0.000

χ^2/NDF : 1519202079.0/31

Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Right: 22.685+/-0.000

χ^2/NDF : 2850255638.6/59

In: 25.668+/-0.000

χ^2/NDF : 8886568597.0/50

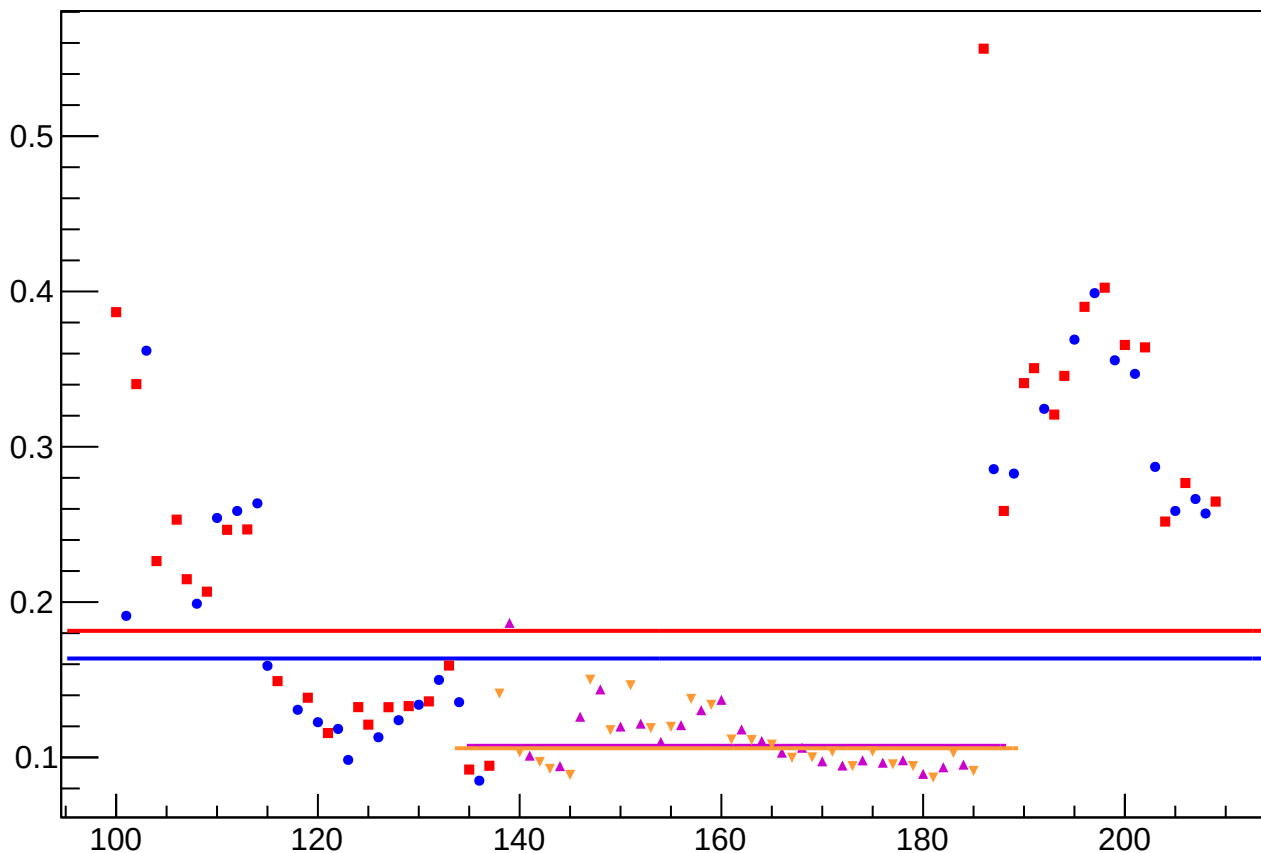
Out: 25.559+/-0.000

χ^2/NDF : 10225379475.0/56

All: 25.612+/-0.000

χ^2/NDF : 19122136375.2

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.164+/-0.000 χ^2/NDF : 5765900.0/27

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.181+/-0.000 χ^2/NDF : 5770124.7/31

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

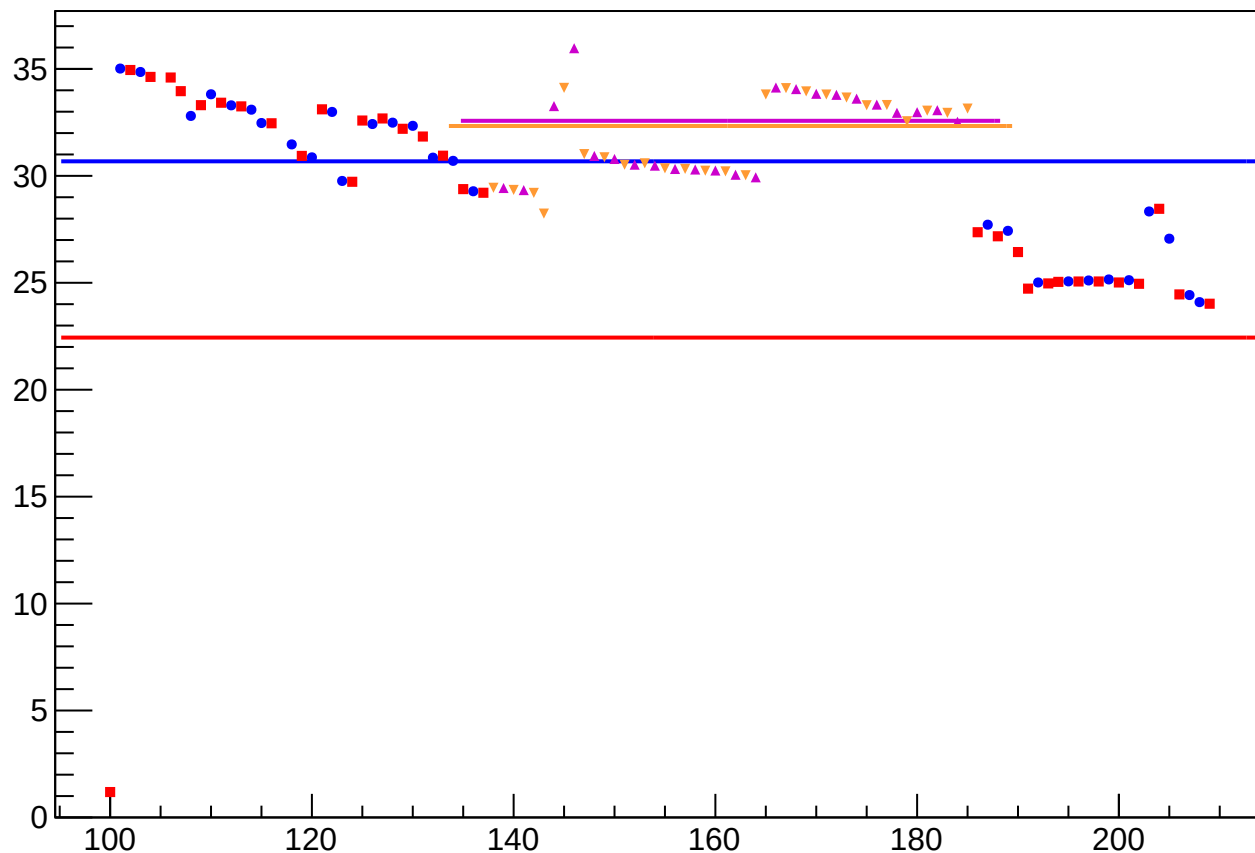
Right: 0.172+/-0.000 χ^2/NDF : 11654724.2/59

In: 0.120+/-0.000 χ^2/NDF : 8434343.6/50

Out: 0.121+/-0.000 χ^2/NDF : 9778372.1/56

All: 0.121+/-0.000 χ^2/NDF : 18213676.3/107

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.679+/-0.000

χ^2/NDF : 7371219058.9/27

Left: 32.450+/-0.000 χ^2/NDF : 24766521375.8/47

Right: 25.861+/-0.000 χ^2/NDF : 275053435452.2/59

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

In: 32.222+/-0.000 χ^2/NDF : 21783614307.9/50

Right Out: 22.438+/-0.000

χ^2/NDF : 232164422208.3/31

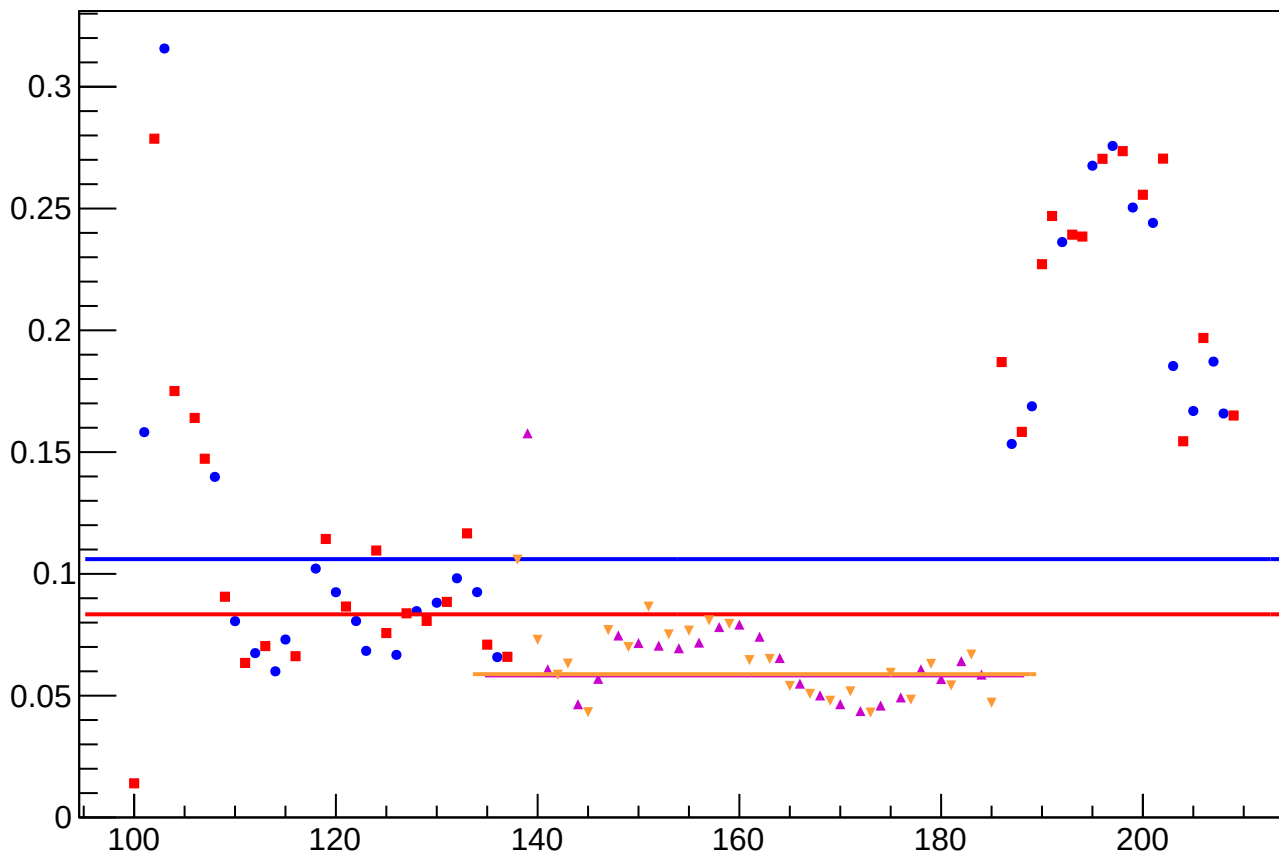
Out: 30.006+/-0.000 χ^2/NDF : 339258620212.1/56

Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

All: 31.055+/-0.000 χ^2/NDF : 373497403404.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.106 $\pm$ 0.000 χ^2 /NDF: 5781803.7/27

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.083 $\pm$ 0.000 χ^2 /NDF: 10961528.8/31

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

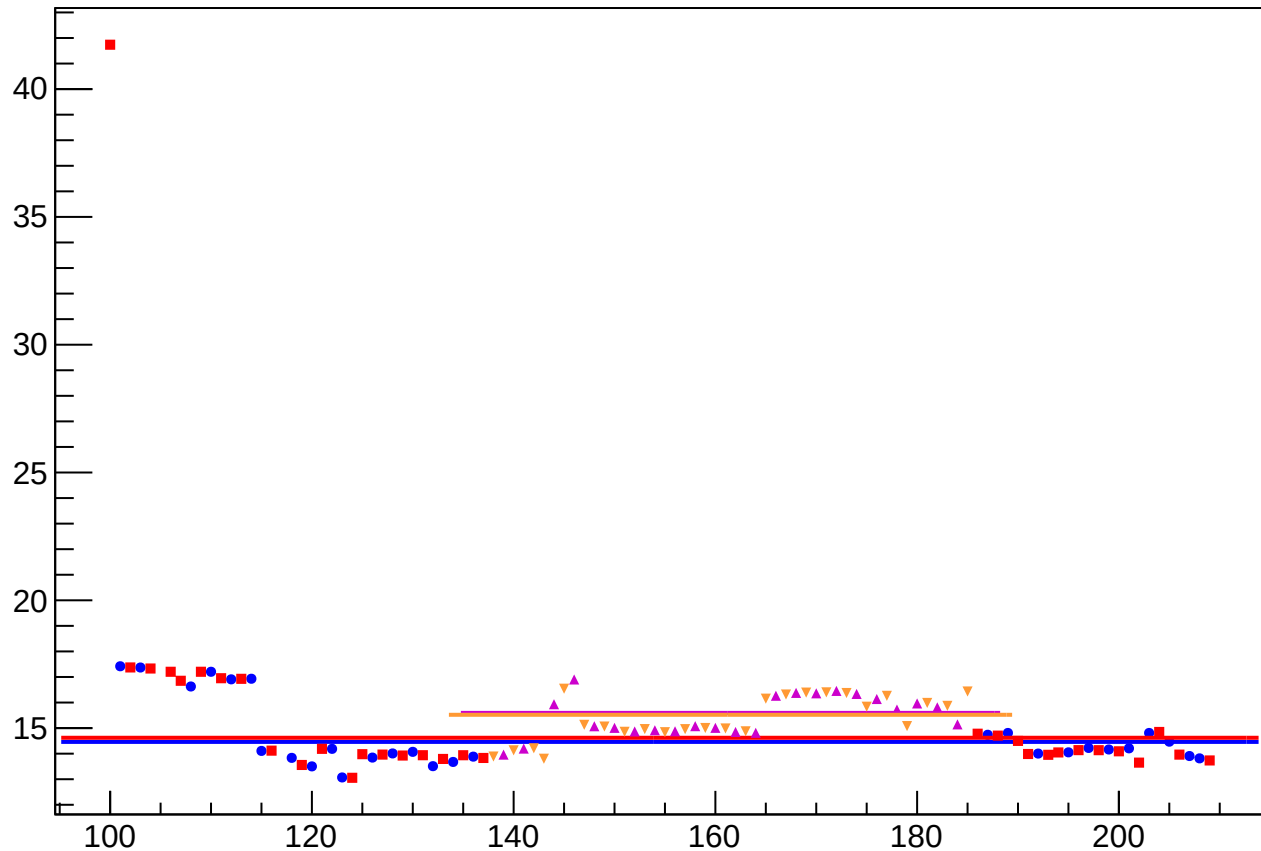
Right: 0.093 $\pm$ 0.000 χ^2 /NDF: 17280016.9/59

In: 0.067 $\pm$ 0.000 χ^2 /NDF:10626776.0/50

Out: 0.065 $\pm$ 0.000 χ^2 /NDF:13526796.7/56

All: 0.066 $\pm$ 0.000 χ^2 /NDF: 24187326.6/107

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.460+/-0.000 χ^2/NDF : 1528899323.9/27

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.622+/-0.000 χ^2/NDF : 2008333805.6/31

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

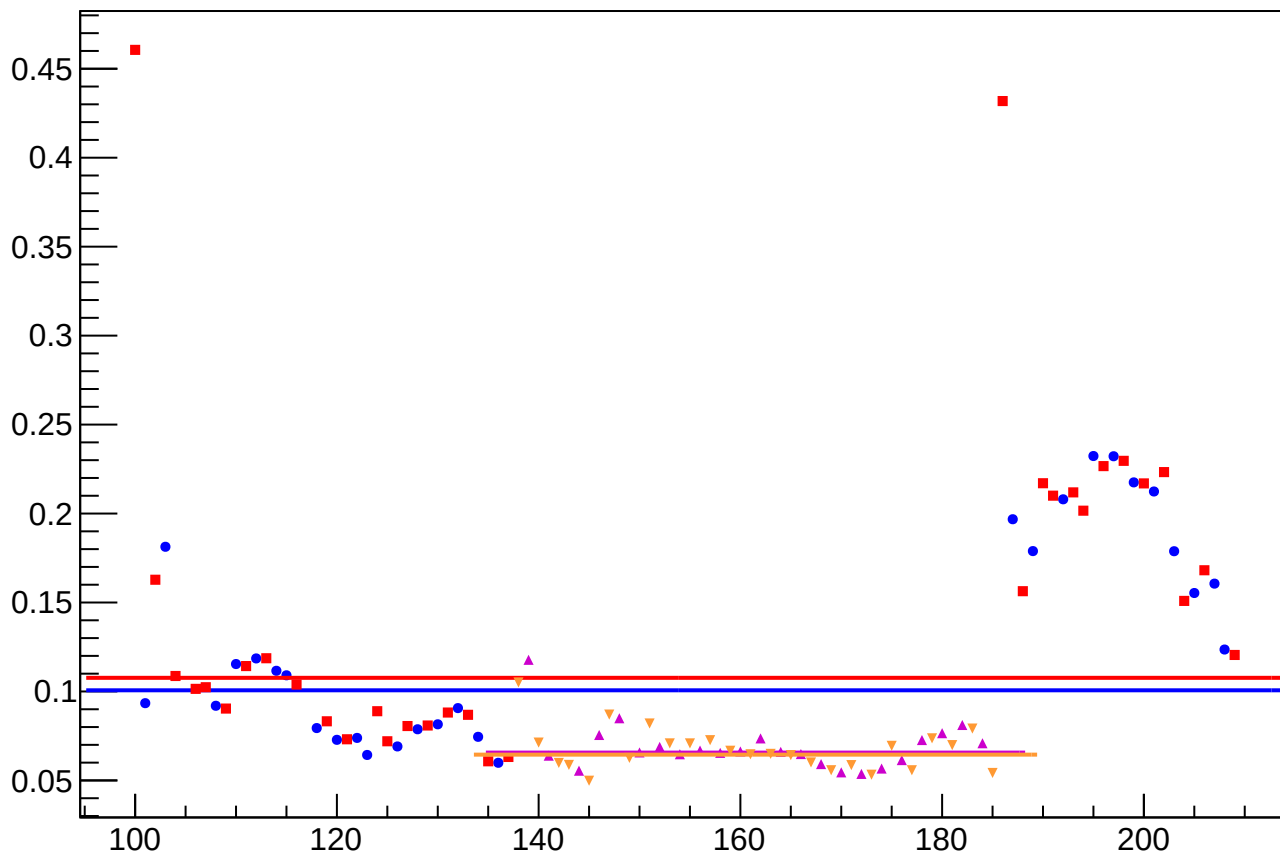
Right: 14.540+/-0.000 χ^2/NDF : 3551225599.8/59

In: 15.323+/-0.000 χ^2/NDF : 4499206397.0/50

Out: 15.324+/-0.000 χ^2/NDF : 5263726111.7/56

All: 15.324+/-0.000 χ^2/NDF : 9762933810.1/111

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.101 $\pm$ 0.000 χ^2/NDF : 4841202.8/27

Left Out: 0.064 $\pm$ 0.000 χ^2/NDF : 761552.3/24

Right Out: 0.108 $\pm$ 0.000 χ^2/NDF : 4994203.2/31

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

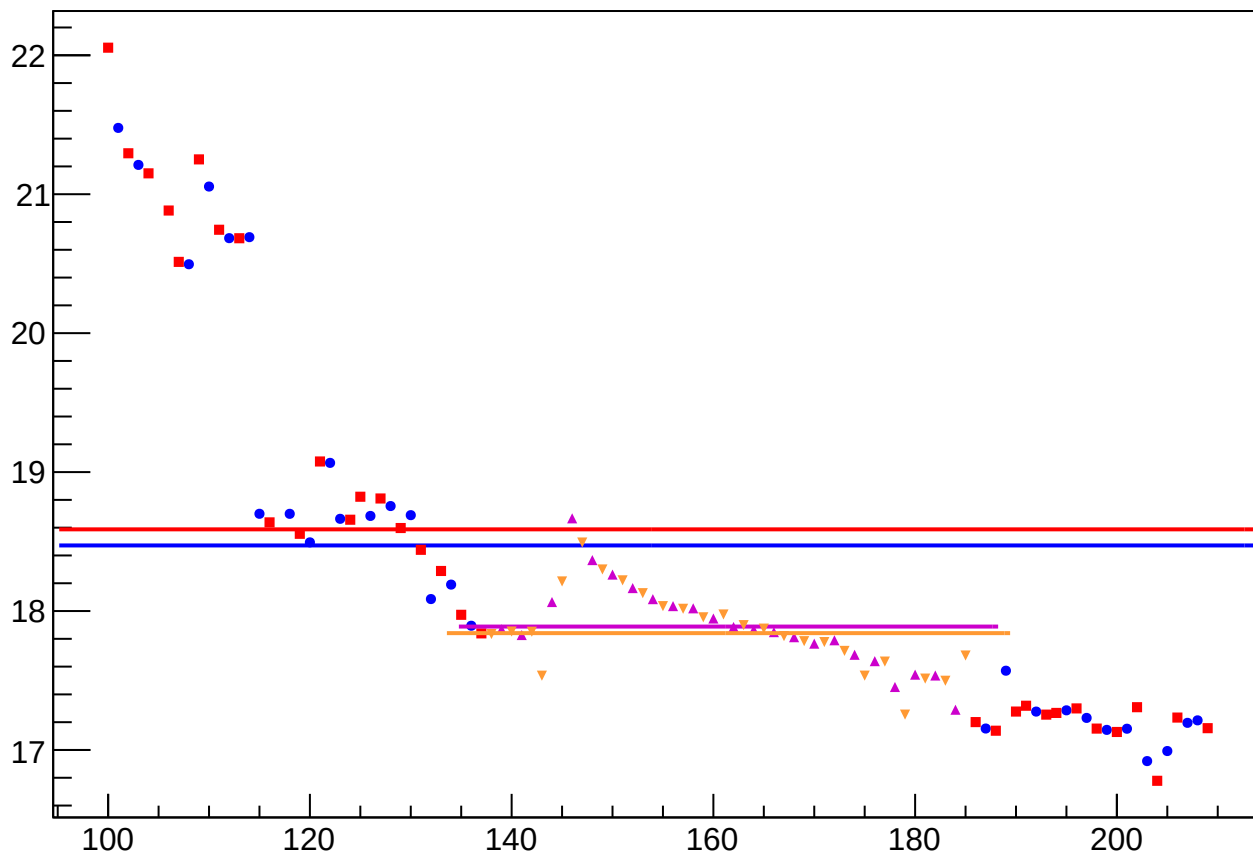
Right: 0.104 $\pm$ 0.000 χ^2/NDF : 9887889.9/59

In: 0.074 $\pm$ 0.000 χ^2/NDF : 7574961.5/50

Out: 0.074 $\pm$ 0.000 χ^2/NDF : 8818041.8/56

All: 0.074 $\pm$ 0.000 χ^2/NDF : 16393034.3/107

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.472+/-0.000

χ^2/NDF : 30906158936.8/27

Left Out: 17.841+/-0.000

χ^2/NDF : 1283287989.7/24

Right Out: 18.588+/-0.000

χ^2/NDF : 33225671545.0/31

Left In: 17.888+/-0.000

χ^2/NDF : 1203002311.3/22

Left: 17.864+/-0.000

χ^2/NDF : 2506375288.6/47

Right: 18.531+/-0.000

χ^2/NDF : 64211545862.1/59

In: 18.124+/-0.000

χ^2/NDF : 34495493909.7/50

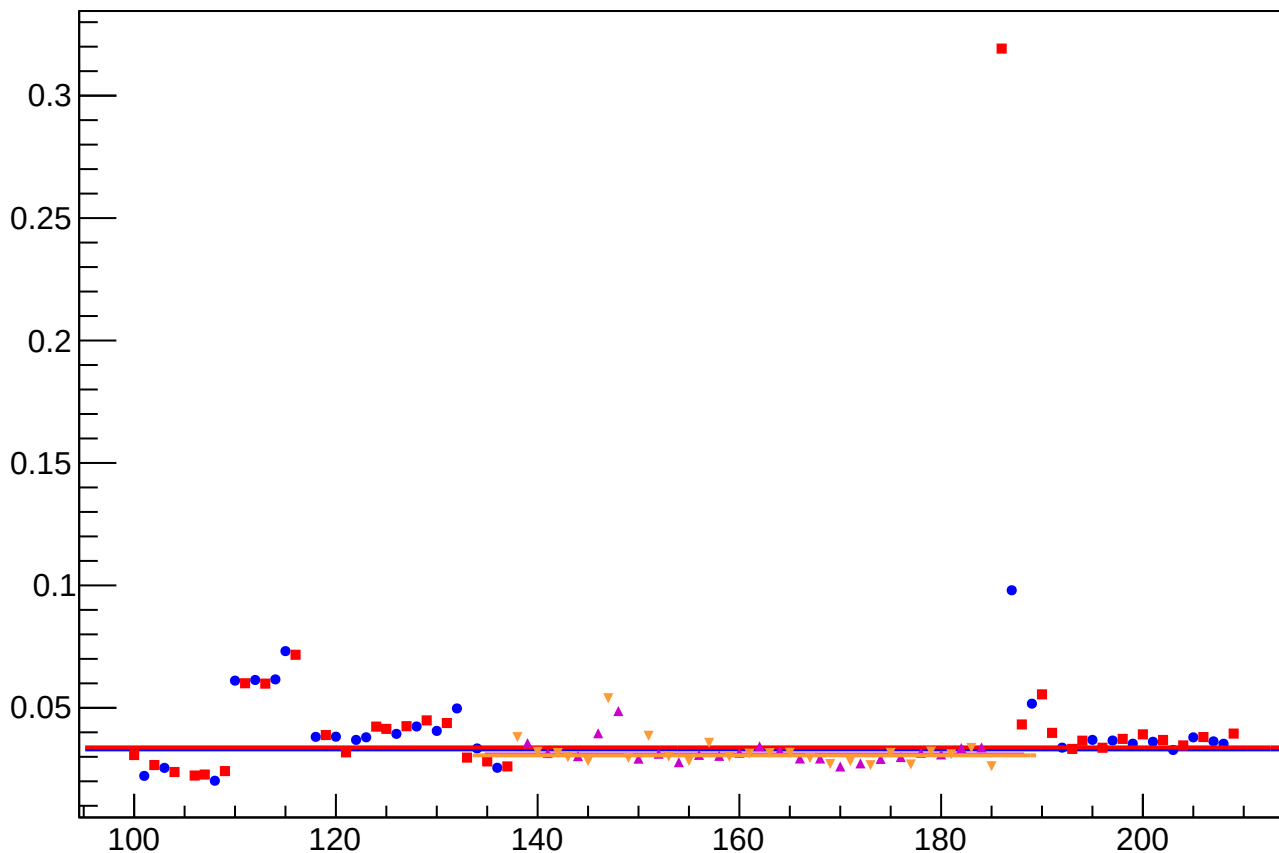
Out: 18.134+/-0.000

χ^2/NDF : 38589190099.0/56

All: 18.129+/-0.000

χ^2/NDF : 73086306045.3

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 1740551.8/27

Left Out: 0.031+/-0.000 χ^2/NDF : 590475.6/24

Right Out: 0.034+/-0.000 χ^2/NDF : 2188319.4/31

Left In: 0.031+/-0.000 χ^2/NDF : 453524.6/22

Left: 0.031+/-0.000 χ^2/NDF : 1045553.8/47

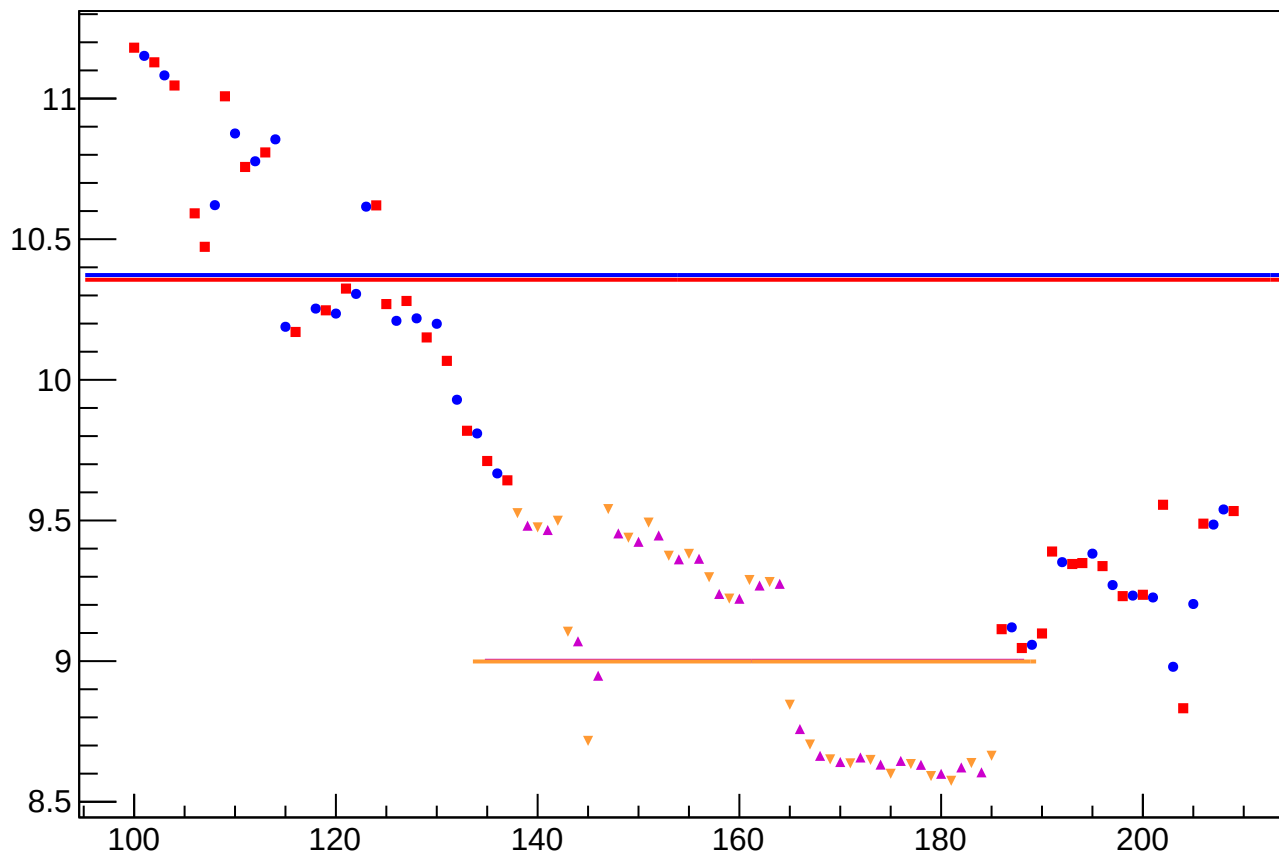
Right: 0.033+/-0.000 χ^2/NDF : 3936503.1/59

In: 0.032+/-0.000 χ^2/NDF : 2258320.3/50

Out: 0.032+/-0.000 χ^2/NDF : 2932097.8/56

All: 0.032+/-0.000 χ^2/NDF : 5190797.5/107

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.373+/-0.000 χ^2/NDF : 14639211714.4/27

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.356+/-0.000 χ^2/NDF : 13239428831.1/31

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

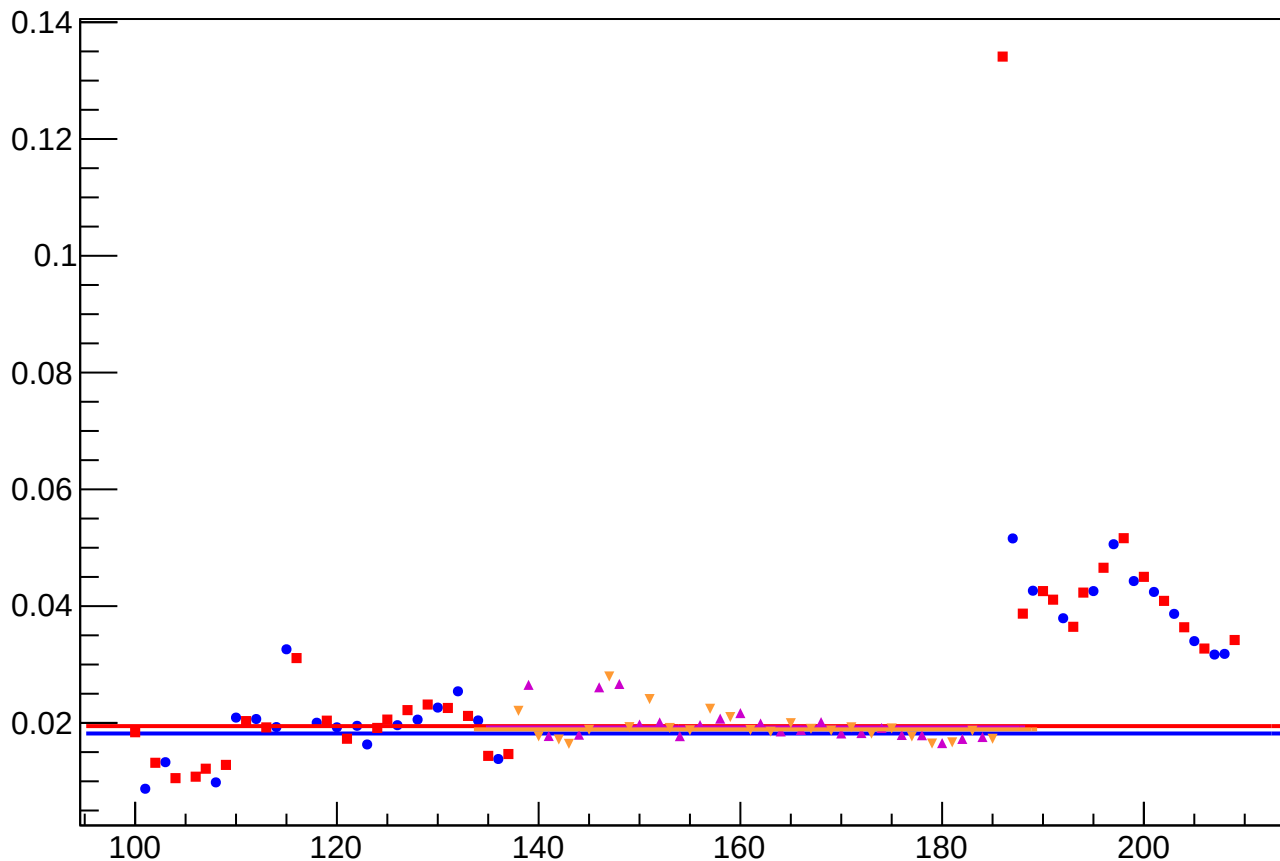
Right: 10.364+/-0.000 χ^2/NDF : 27882950874.6/59

In: 9.578+/-0.000 χ^2/NDF : 53827842582.4/50

Out: 9.533+/-0.000 χ^2/NDF : 53671345573.9/56

All: 9.555+/-0.000 χ^2/NDF : 107578029853.6

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000 χ^2 /NDF: 6578191.3/27

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:428169.5/24

Right Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 6763820.8/31

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:481824.0/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 914799.6/47

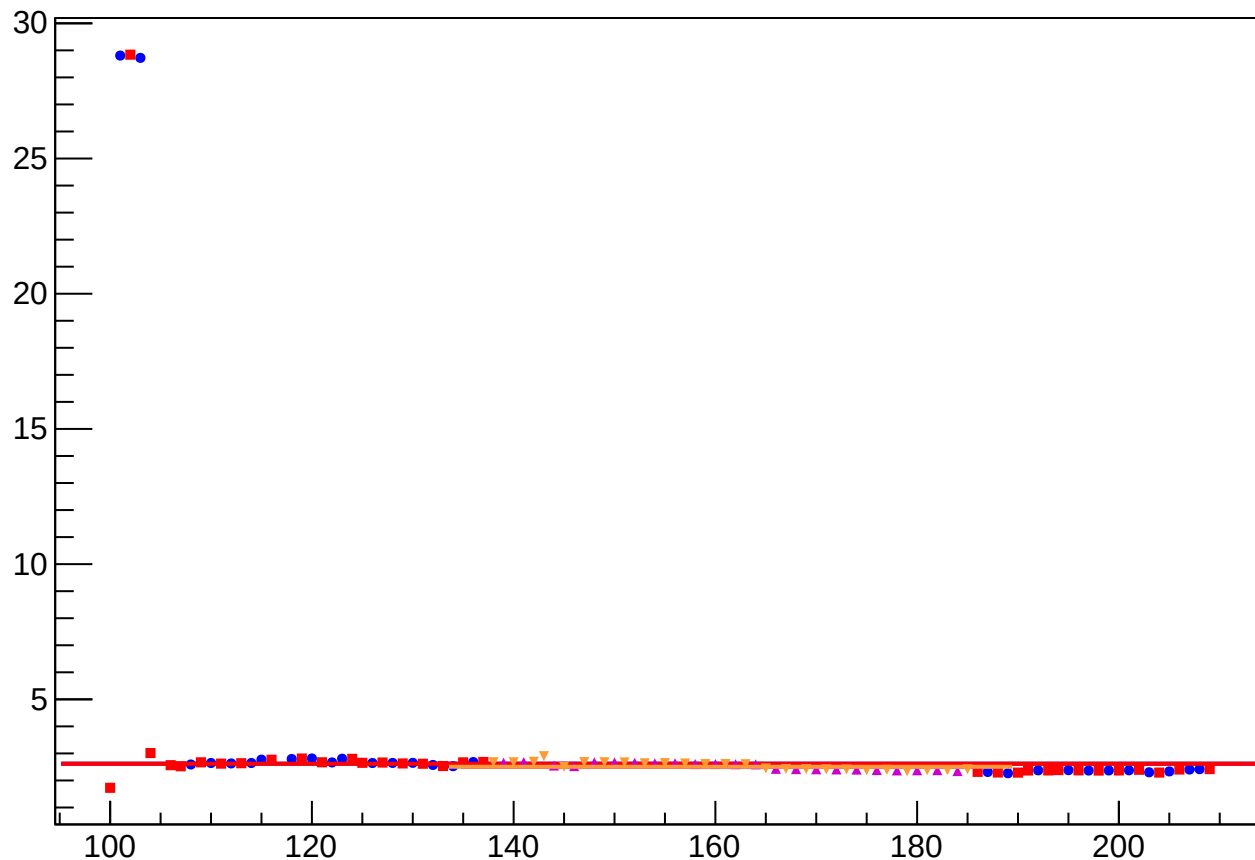
Right: 0.019 $\pm$ 0.000 χ^2 /NDF: 13391118.7/59

In: 0.019 $\pm$ 0.000 χ^2 /NDF:7098664.4/50

Out: 0.019 $\pm$ 0.000 χ^2 /NDF:7203370.4/56

All: 0.019 $\pm$ 0.000 χ^2 /NDF: 14310101.6/107

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.622 $\pm$ 0.000 χ^2 /NDF: 180451565625.7/27

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.617 $\pm$ 0.000 χ^2 /NDF: 89935205990.7/31

Left In: 2.505 $\pm$ 0.000 χ^2 /NDF: 42893630742.5/22

Left: 2.506 $\pm$ 0.000 χ^2 /NDF: 107174595641.7/47

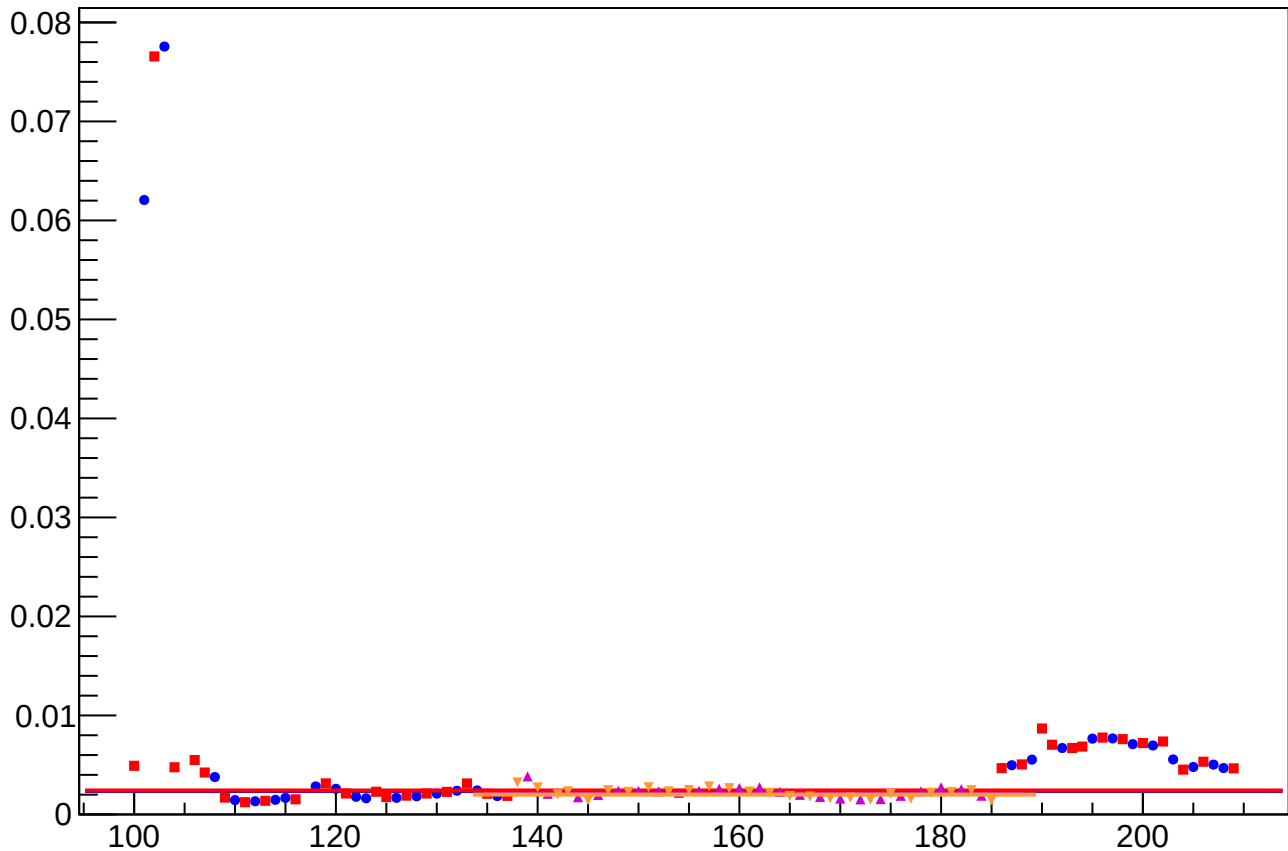
Right: 2.620 $\pm$ 0.000 χ^2 /NDF: 270412607152.1/59

In: 2.543 $\pm$ 0.000 χ^2 /NDF: 237857835474.2/50

Out: 2.541 $\pm$ 0.000 χ^2 /NDF: 167970907746.1/56

All: 2.542 $\pm$ 0.000 χ^2 /NDF: 405839029016.4

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 9083663.8/27

Left Out: 0.002+/-0.000 χ^2/NDF : 1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 9484141.1/31

Left In: 0.002+/-0.000 χ^2/NDF : 1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

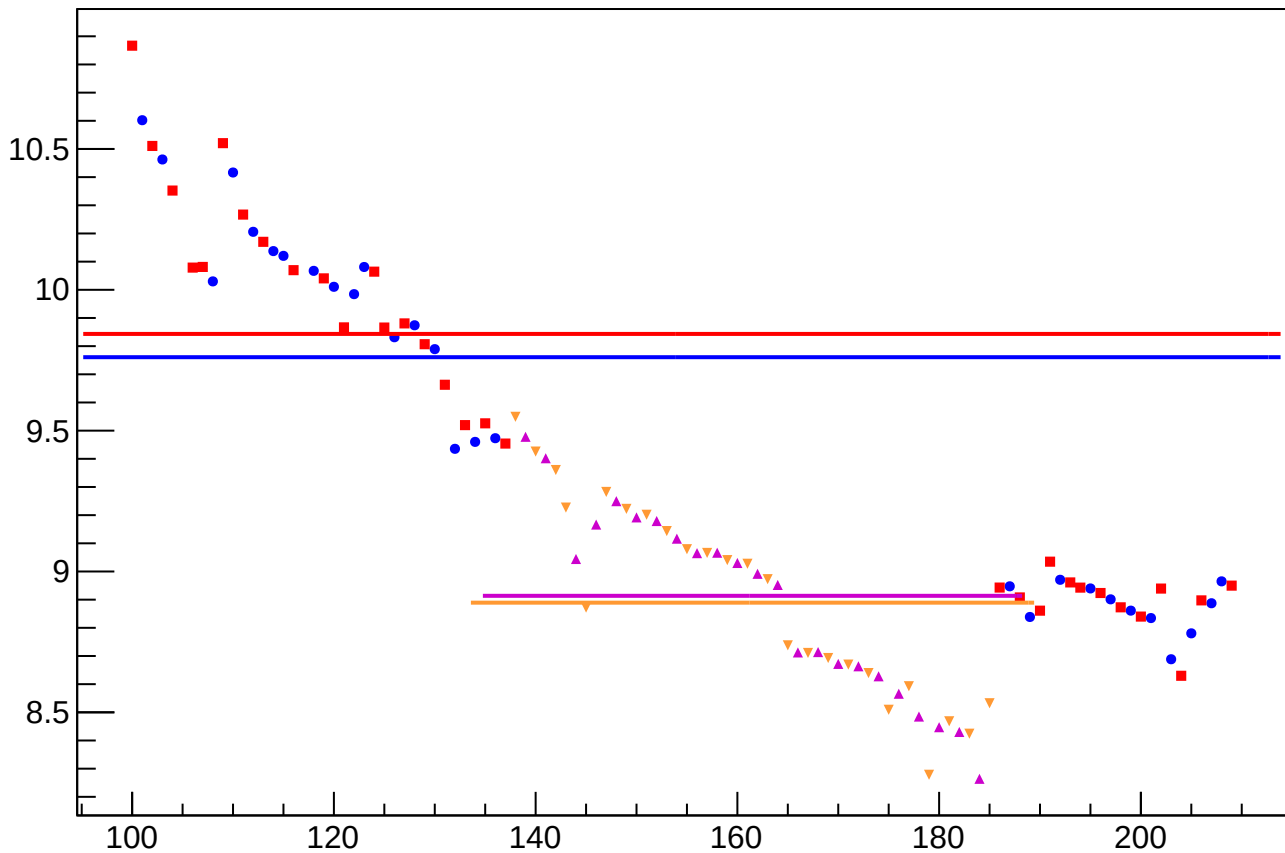
Right: 0.002+/-0.000 χ^2/NDF : 18572929.0/59

In: 0.002+/-0.000 χ^2/NDF : 10587427.3/50

Out: 0.002+/-0.000 χ^2/NDF : 11347638.7/56

All: 0.002+/-0.000 χ^2/NDF : 21937448.7/107

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.761+/-0.000 χ^2/NDF : 65315225618.9/27

Left Out: 8.889+/-0.000 χ^2/NDF : 34704694045.9/24

Right Out: 9.843+/-0.000 χ^2/NDF : 69171384936.6/31

Left In: 8.914+/-0.000 χ^2/NDF : 28497227562.7/22

Left: 8.901+/-0.000 χ^2/NDF : 63312247922.6/47

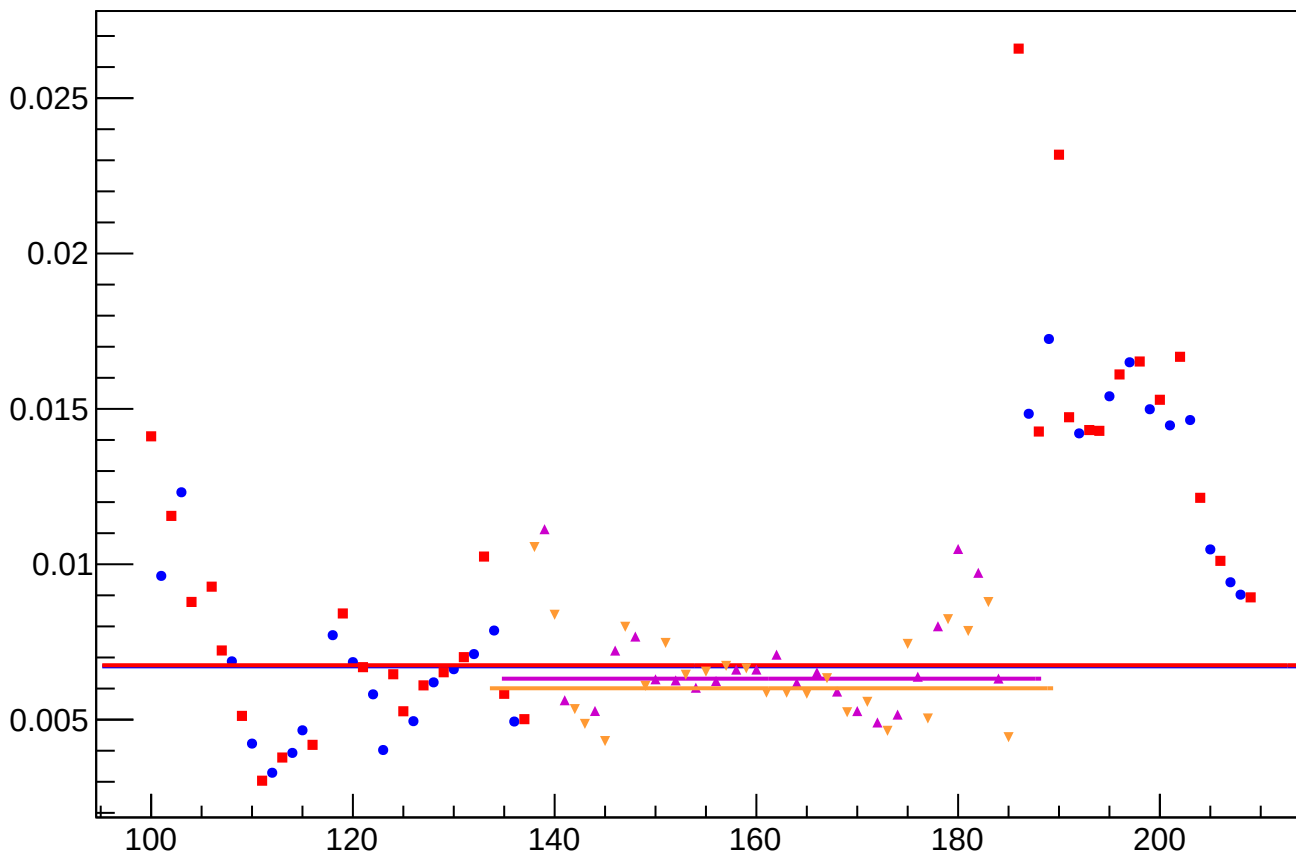
Right: 9.803+/-0.000 χ^2/NDF : 135281454050.6/59

In: 9.249+/-0.000 χ^2/NDF : 192592184497.9/50

Out: 9.244+/-0.000 χ^2/NDF : 240158918930.3/56

All: 9.246+/-0.000 χ^2/NDF : 432757079041.2

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 5726100.2/27

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1312525.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 7275996.6/31

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

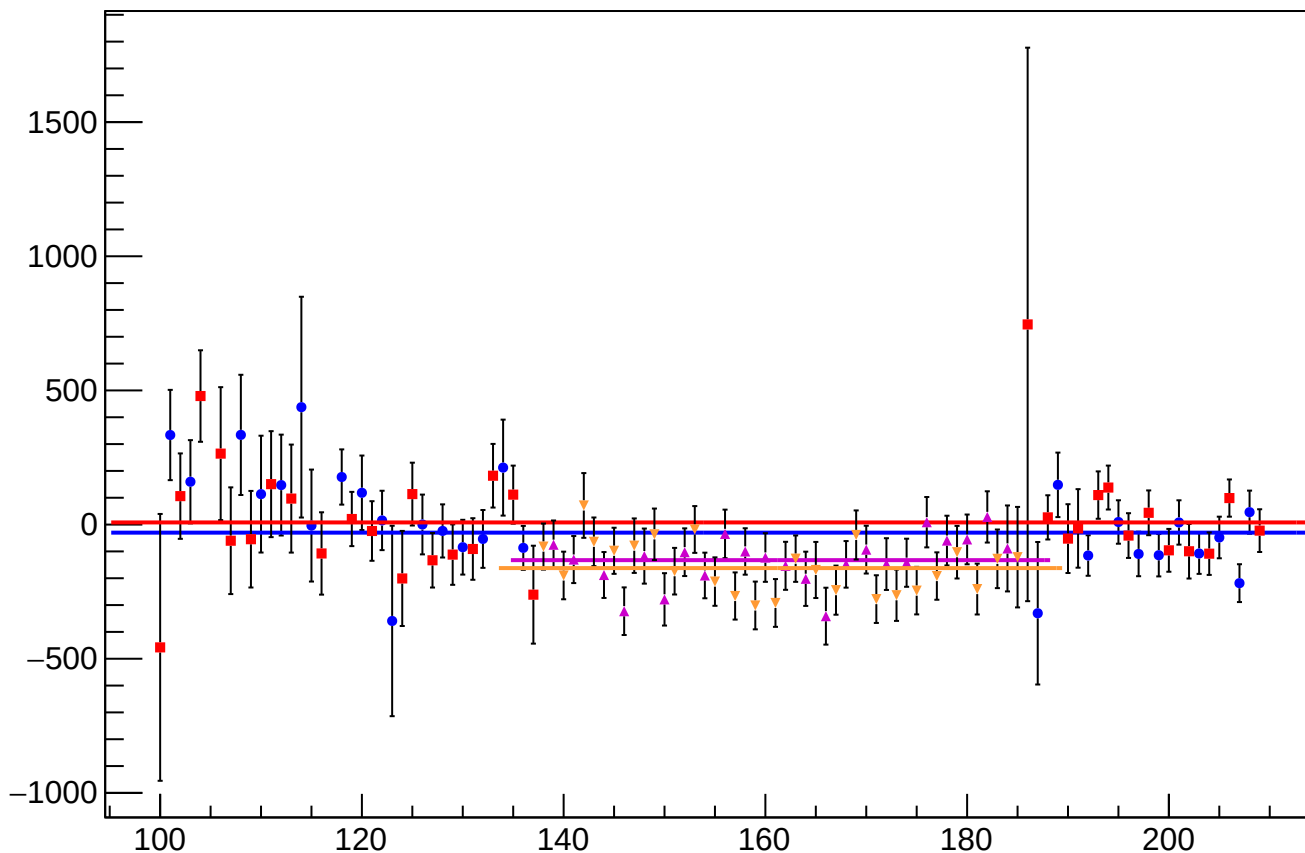
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 13002400.7/59

In: 0.006 $\pm$ 0.000 χ^2 /NDF:6856417.4/50

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:8753174.2/56

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 15631475.2/107

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -30.058 ± 19.939 $\chi^2/\text{NDF}: 36.8/27$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: 7.980 ± 19.744 $\chi^2/\text{NDF}: 34.9/31$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

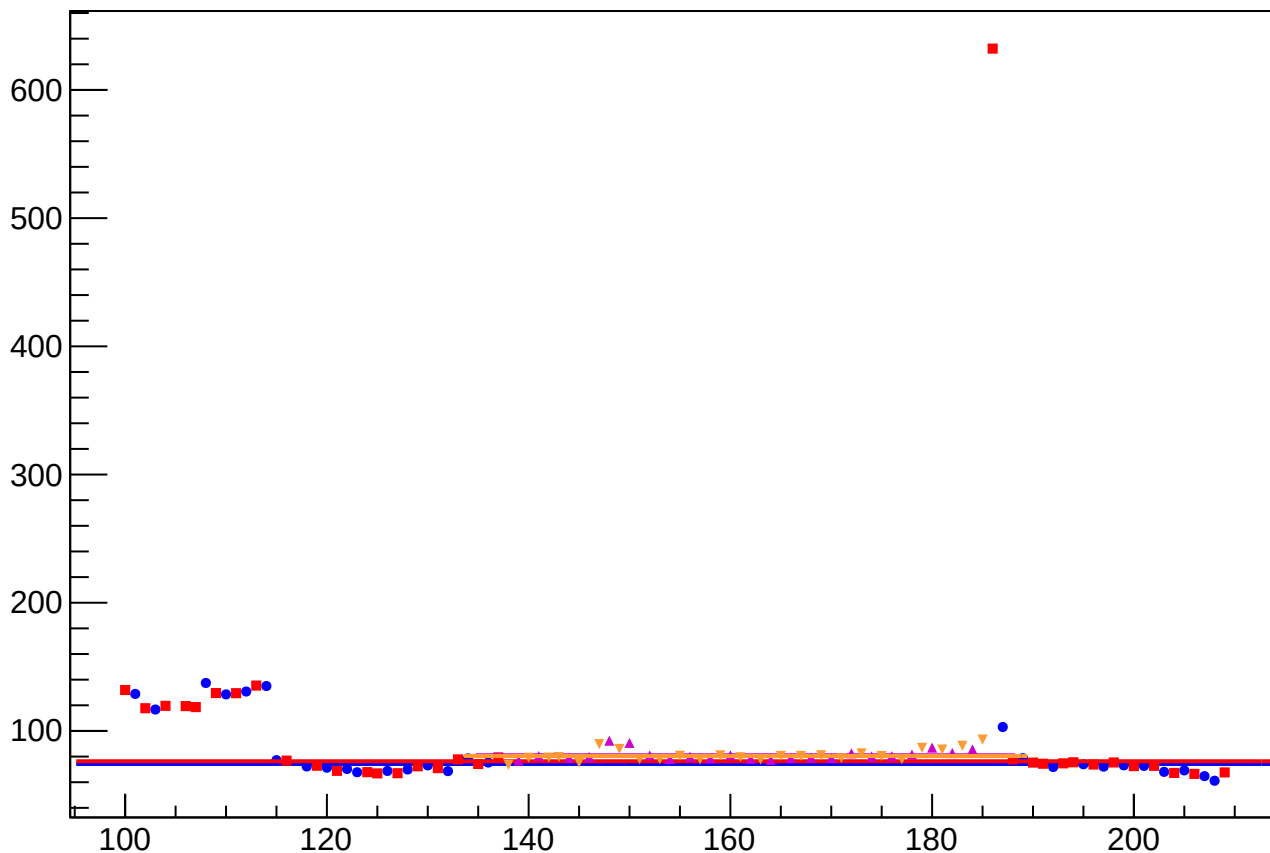
Right: -10.852 ± 14.030 $\chi^2/\text{NDF}: 73.5/59$

In: -82.704 ± 13.906 $\chi^2/\text{NDF}: 71.1/50$

Out: -81.506 ± 13.594 $\chi^2/\text{NDF}: 99.6/56$

All: -82.091 ± 9.721 $\chi^2/\text{NDF}: 170.7/107$

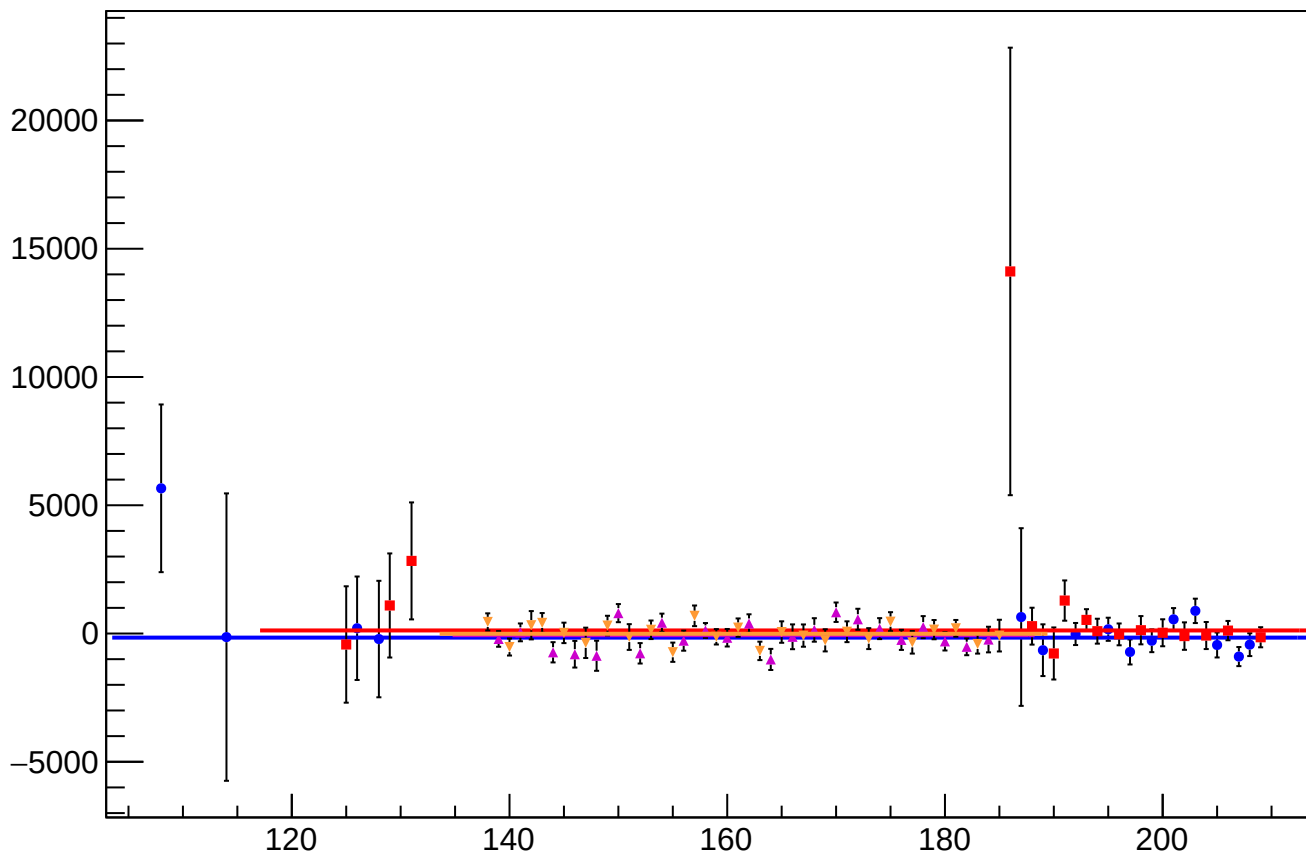
reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 74.239 $\pm$ 0.014 χ^2 /NDF: 1030861.6/27
Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24
Right Out: 76.355 $\pm$ 0.014 χ^2 /NDF: 1667536.6/31
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: 75.307 $\pm$ 0.010 χ^2 /NDF: 2709769.3/59
In: 77.719 $\pm$ 0.010 χ^2 /NDF: 1221703.0/50
Out: 78.513 $\pm$ 0.010 χ^2 /NDF: 1802923.7/56
All: 78.125 $\pm$ 0.007 χ^2 /NDF: 3027965.6/107

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -159.557 $\pm$ 145.329 χ^2 /NDF: 17.6/14

Left Out: -10.486 $\pm$ 78.391 χ^2 /NDF:22.5/24

Right Out: 119.917 $\pm$ 144.002 χ^2 /NDF: 9.2/15

Left In: -64.591 $\pm$ 80.047 χ^2 /NDF:37.4/22

Left: -36.973 $\pm$ 56.007 χ^2 /NDF: 60.2/47

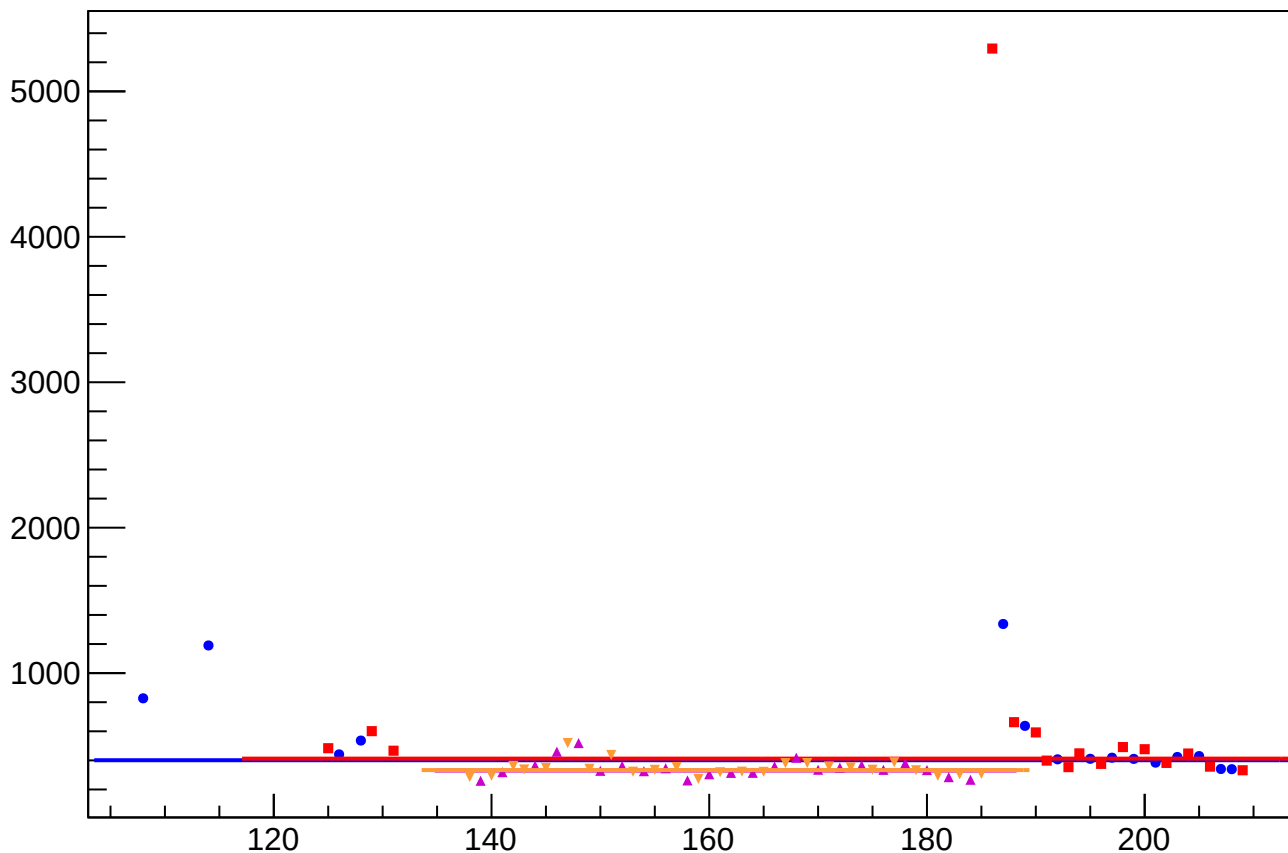
Right: -18.539 $\pm$ 102.291 χ^2 /NDF: 28.7/30

In: -86.696 $\pm$ 70.114 χ^2 /NDF:55.4/37

Out: 19.324 $\pm$ 68.850 χ^2 /NDF:32.4/40

All: -32.722 $\pm$ 49.125 χ^2 /NDF: 88.9/78

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 401.142 $\pm$ 0.103 χ^2 /NDF: 446966.2/14

Left Out: 333.233 $\pm$ 0.055 χ^2 /NDF: 592122.2/24

Right Out: 412.122 $\pm$ 0.102 χ^2 /NDF: 1231409.6/15

Left In: 329.985 $\pm$ 0.057 χ^2 /NDF: 795969.0/22

Left: 331.643 $\pm$ 0.040 χ^2 /NDF: 1389771.8/47

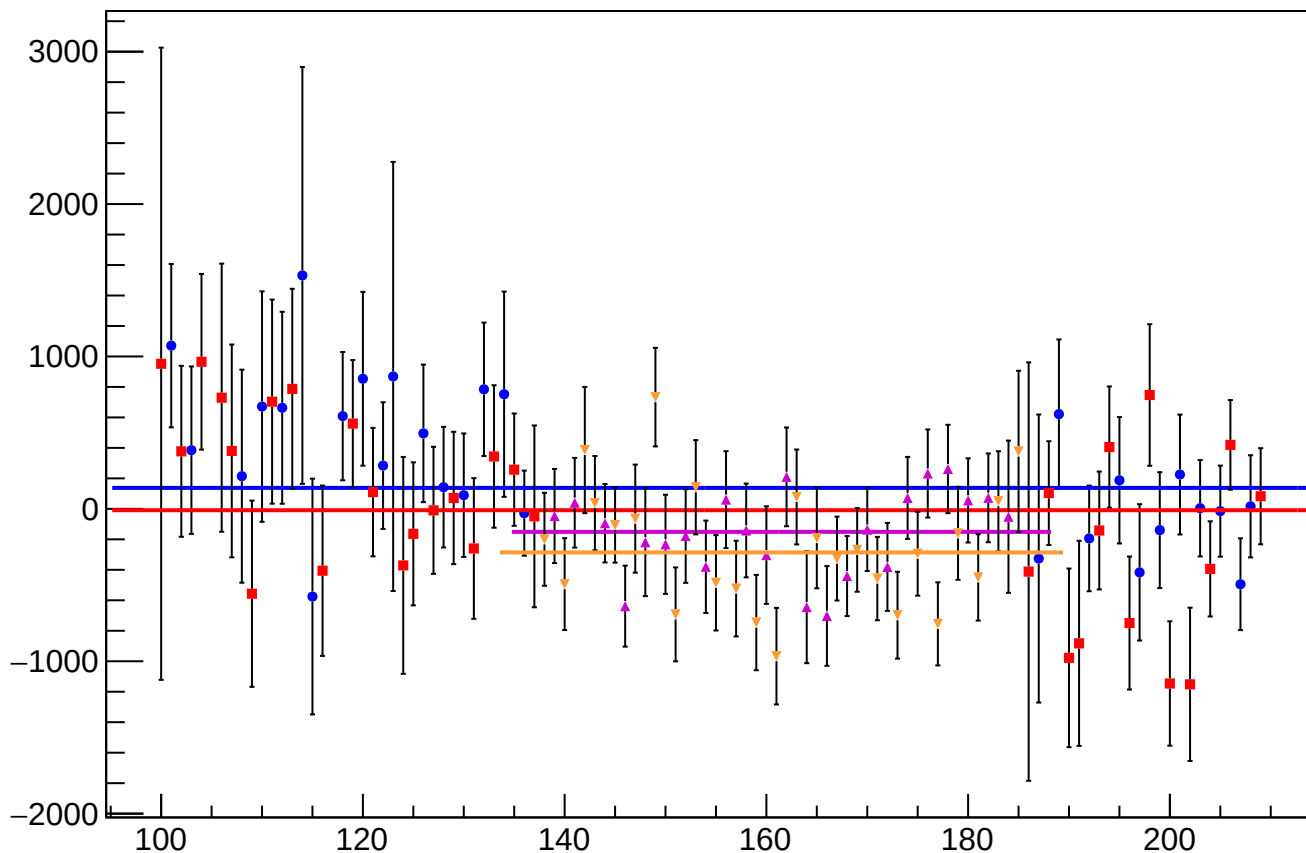
Right: 406.683 $\pm$ 0.072 χ^2 /NDF: 1684136.3/30

In: 346.548 $\pm$ 0.050 χ^2 /NDF: 1610804.7/37

Out: 351.267 $\pm$ 0.049 χ^2 /NDF: 2286560.5/40

All: 348.951 $\pm$ 0.035 χ^2 /NDF: 3901977.4/78

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 137.710 $\pm$ 82.495 χ^2 /NDF: 22.8/27

Left Out: -286.030 $\pm$ 61.095 χ^2 /NDF:36.6/24

Right Out: -8.969 $\pm$ 82.316 χ^2 /NDF: 40.2/31

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

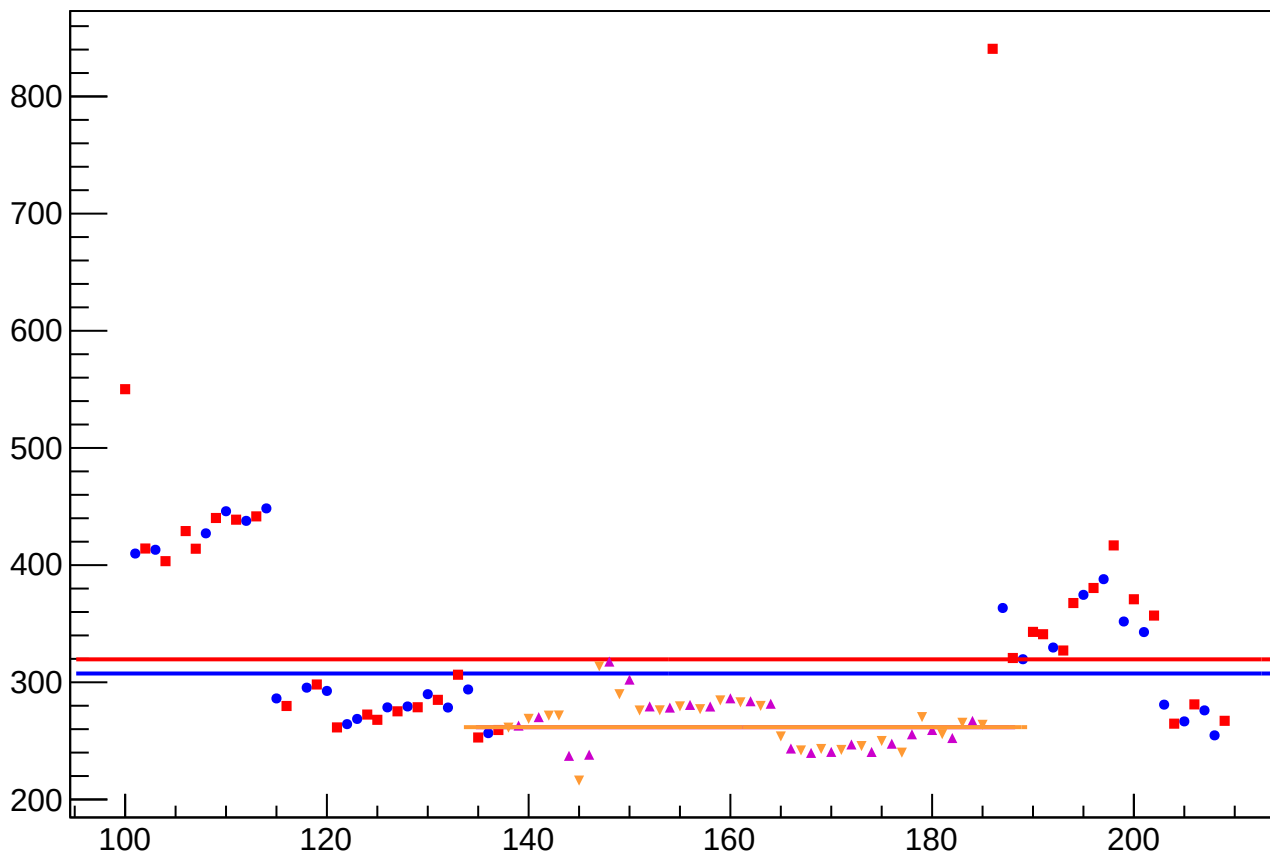
Right: 64.211 $\pm$ 58.269 χ^2 /NDF: 64.6/59

In: -44.985 $\pm$ 49.978 χ^2 /NDF:49.3/50

Out: -187.620 $\pm$ 49.059 χ^2 /NDF:84.1/56

All: -117.626 $\pm$ 35.010 χ^2 /NDF: 137.5/107

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 307.502 $\pm$ 0.058 χ^2 /NDF: 805431.1/27

Left Out: 261.722 $\pm$ 0.043 χ^2 /NDF: 233222.6/24

Right Out: 319.589 $\pm$ 0.058 χ^2 /NDF: 1271193.0/31

Left In: 261.637 $\pm$ 0.044 χ^2 /NDF: 228241.3/22

Left: 261.680 $\pm$ 0.031 χ^2 /NDF: 461465.7/47

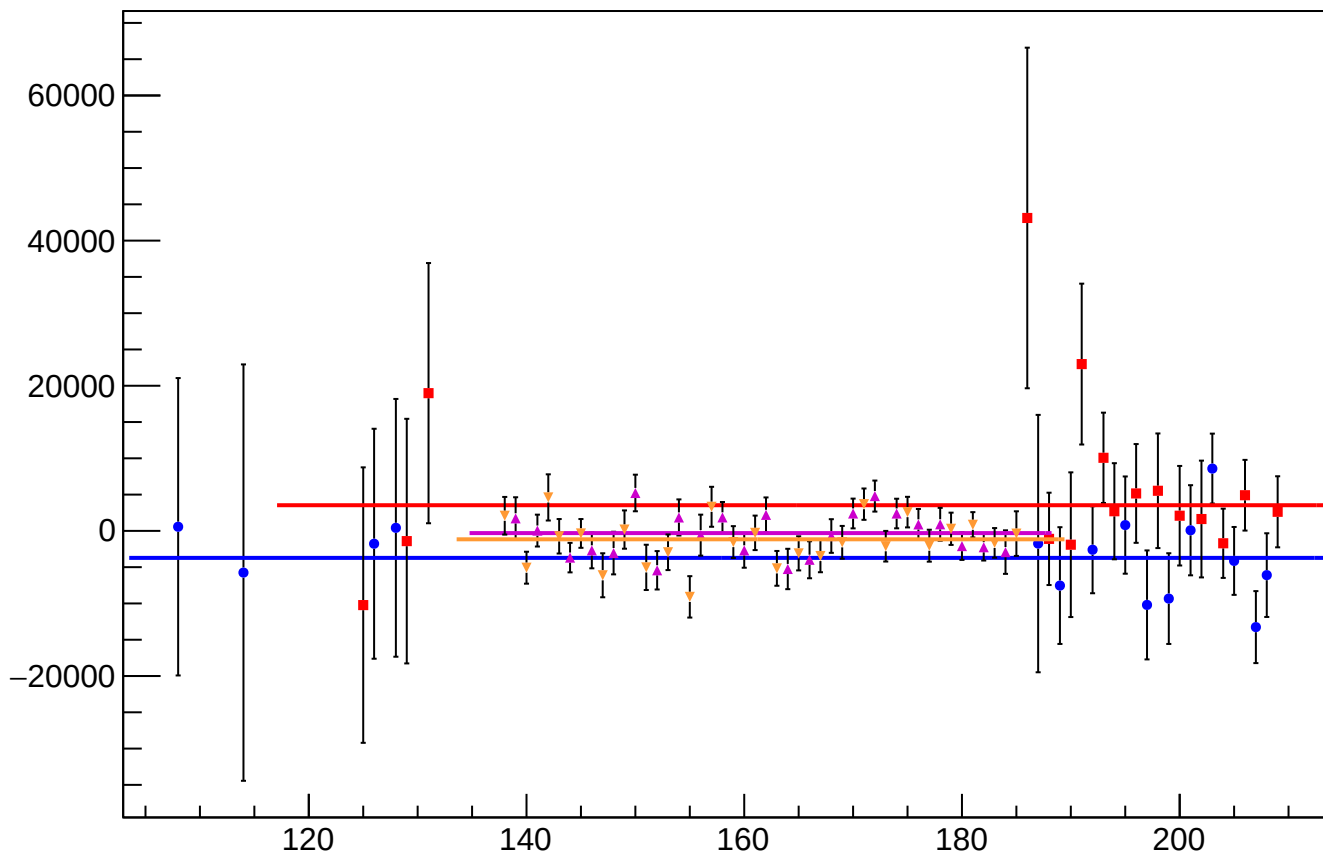
Right: 313.558 $\pm$ 0.041 χ^2 /NDF: 2098137.5/59

In: 278.470 $\pm$ 0.035 χ^2 /NDF: 1424992.3/50

Out: 282.276 $\pm$ 0.035 χ^2 /NDF: 2141729.9/56

All: 280.408 $\pm$ 0.025 χ^2 /NDF: 3572627.2/107

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -3720.173+/-1801.162 χ^2/NDF : 13.2/14

Left Out: -1161.443+/-469.036 χ^2/NDF : 38.8/24

Right Out: 3536.545+/-1811.195 χ^2/NDF : 10.8/15

Left In: -304.366+/-483.778 χ^2/NDF : 35.4/22

Left: -746.162+/-336.750 χ^2/NDF : 75.7/47

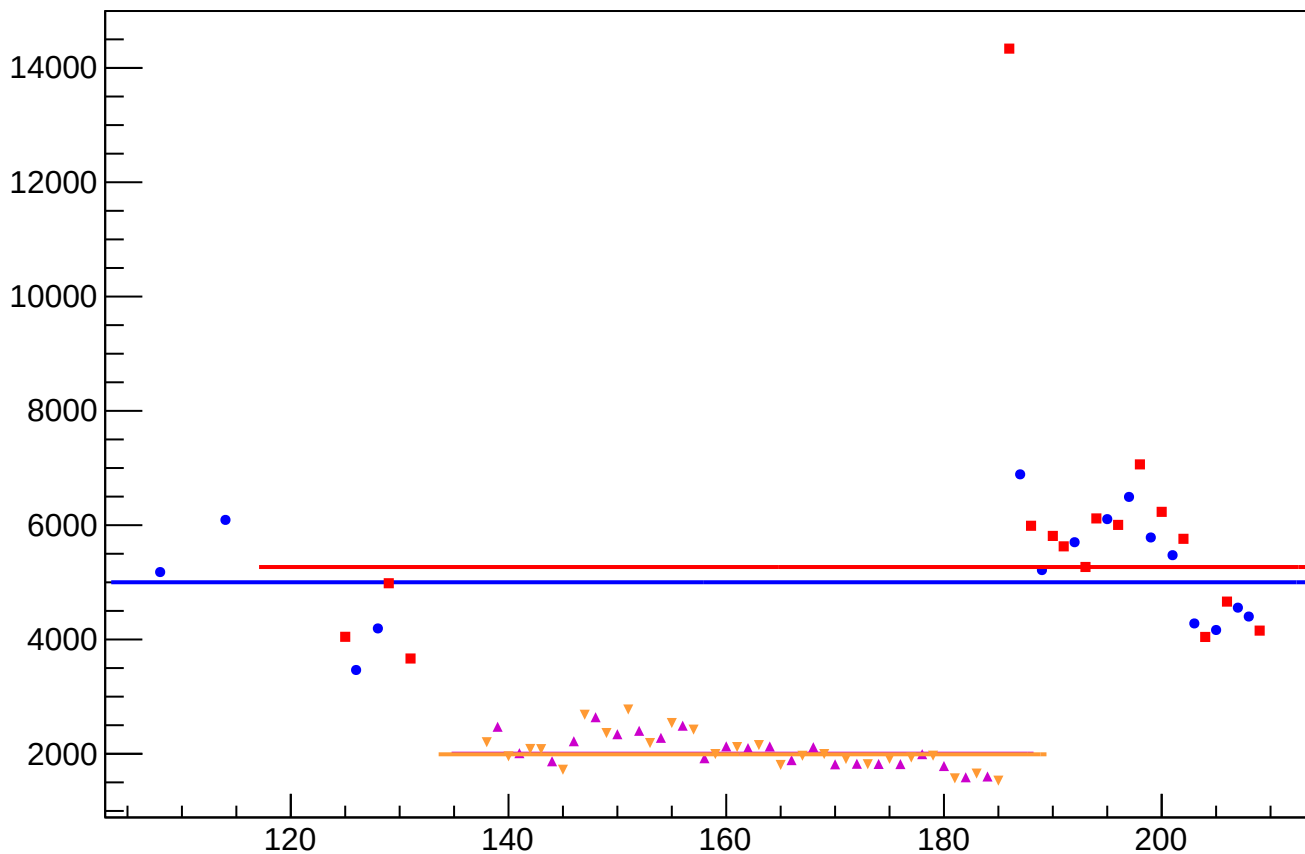
Right: -111.968+/-1277.146 χ^2/NDF : 32.0/30

In: -534.208+/-467.219 χ^2/NDF : 51.9/37

Out: -866.183+/-454.058 χ^2/NDF : 55.8/40

All: -704.936+/-325.621 χ^2/NDF : 108.0/78

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5001.279+/-1.274 χ^2/NDF : 400058.5/14

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5267.839+/-1.281 χ^2/NDF : 829850.1/15

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

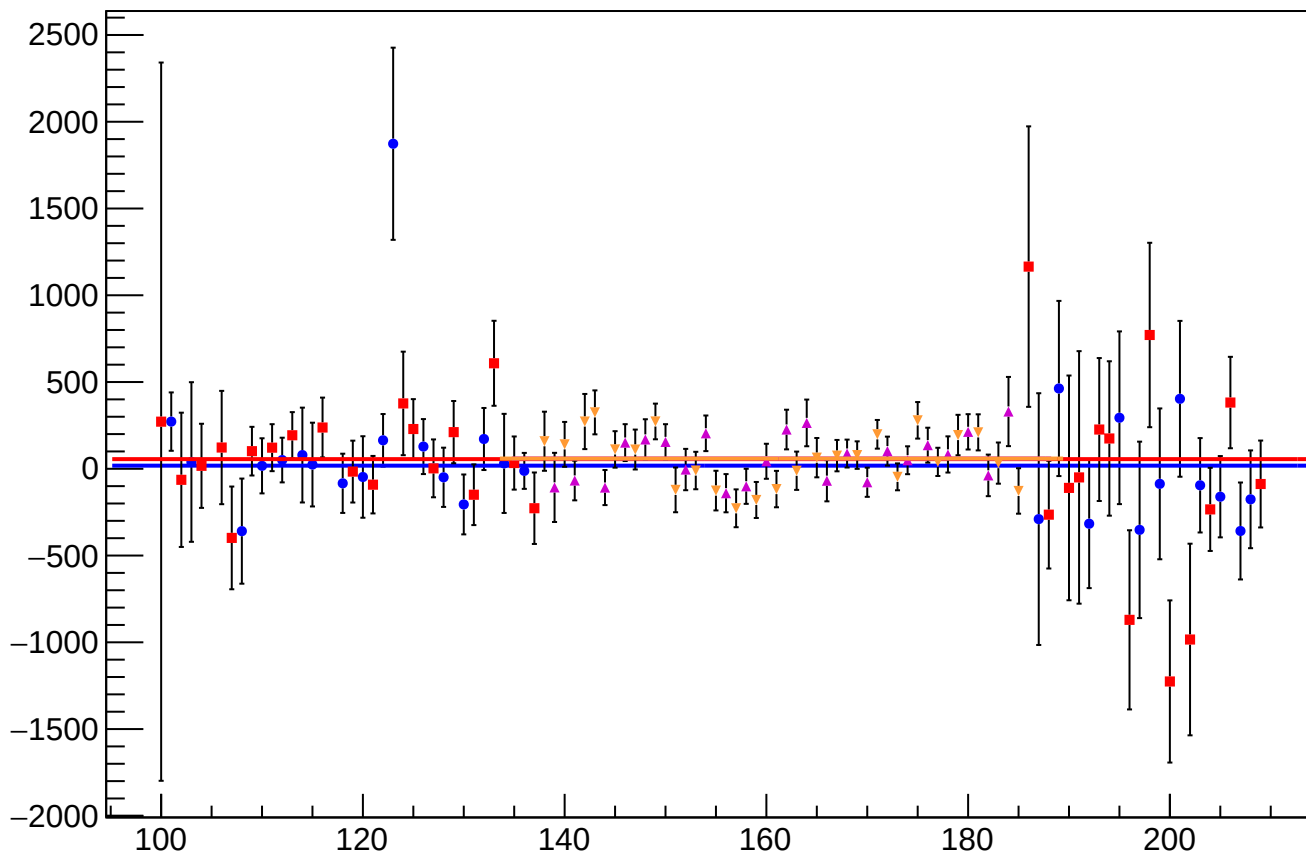
Right: 5133.819+/-0.903 χ^2/NDF : 1251688.9/30

In: 2203.958+/-0.330 χ^2/NDF : 6158039.3/37

Out: 2197.041+/-0.321 χ^2/NDF : 7690842.3/40

All: 2200.401+/-0.230 χ^2/NDF : 13849107.1/77

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.044 ± 40.368 χ^2/NDF : 26.1/27

Left Out: 58.983 ± 21.137 χ^2/NDF : 46.9/24

Right Out: 55.664 ± 39.981 χ^2/NDF : 40.1/31

Left In: 59.235 ± 21.921 χ^2/NDF : 29.4/22

Left: 59.104 ± 15.216 χ^2/NDF : 76.3/47

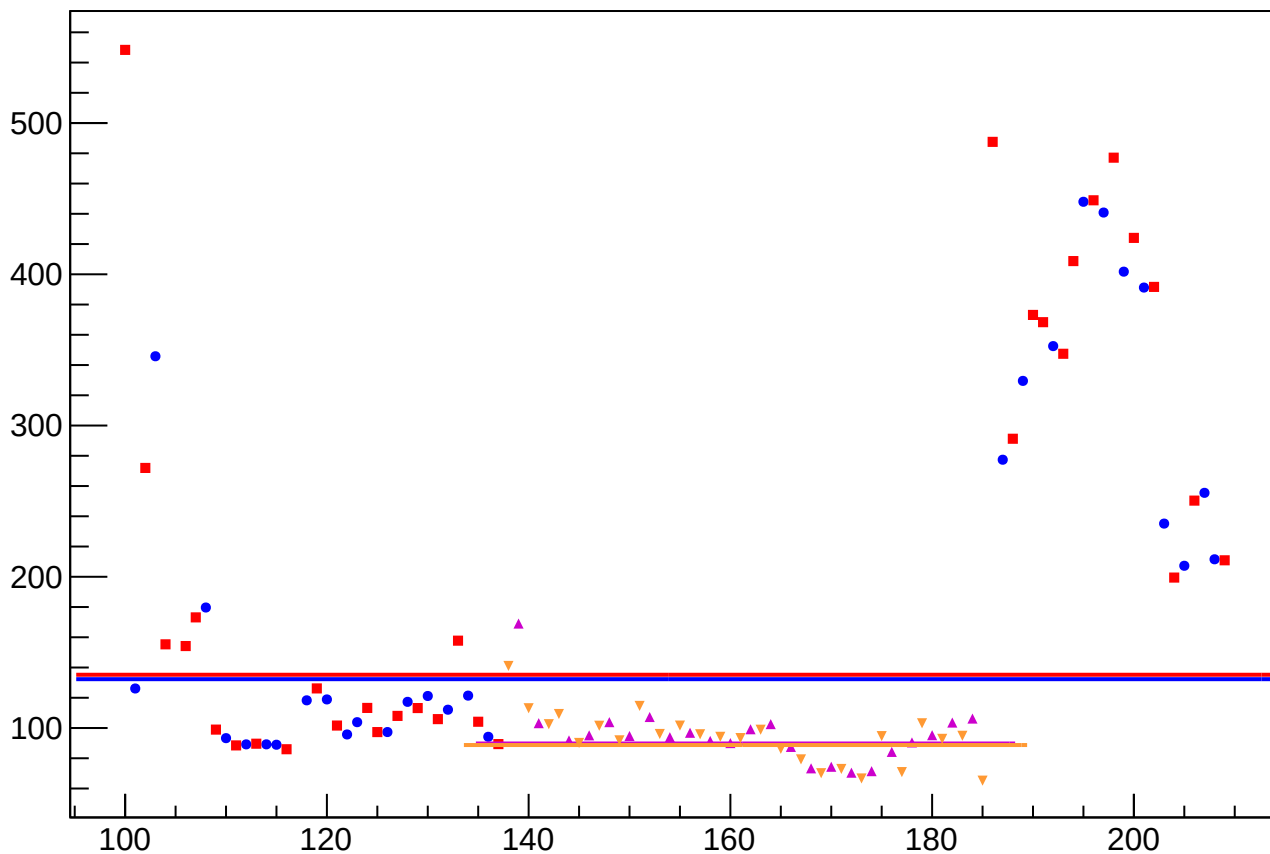
Right: 37.035 ± 28.406 χ^2/NDF : 66.7/59

In: 49.854 ± 19.264 χ^2/NDF : 56.3/50

Out: 58.258 ± 18.686 χ^2/NDF : 87.0/56

All: 54.184 ± 13.413 χ^2/NDF : 143.4/107

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 132.290 $\pm$ 0.029 χ^2 /NDF: 6606499.4/27

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 135.219 $\pm$ 0.028 χ^2 /NDF: 7803689.4/31

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

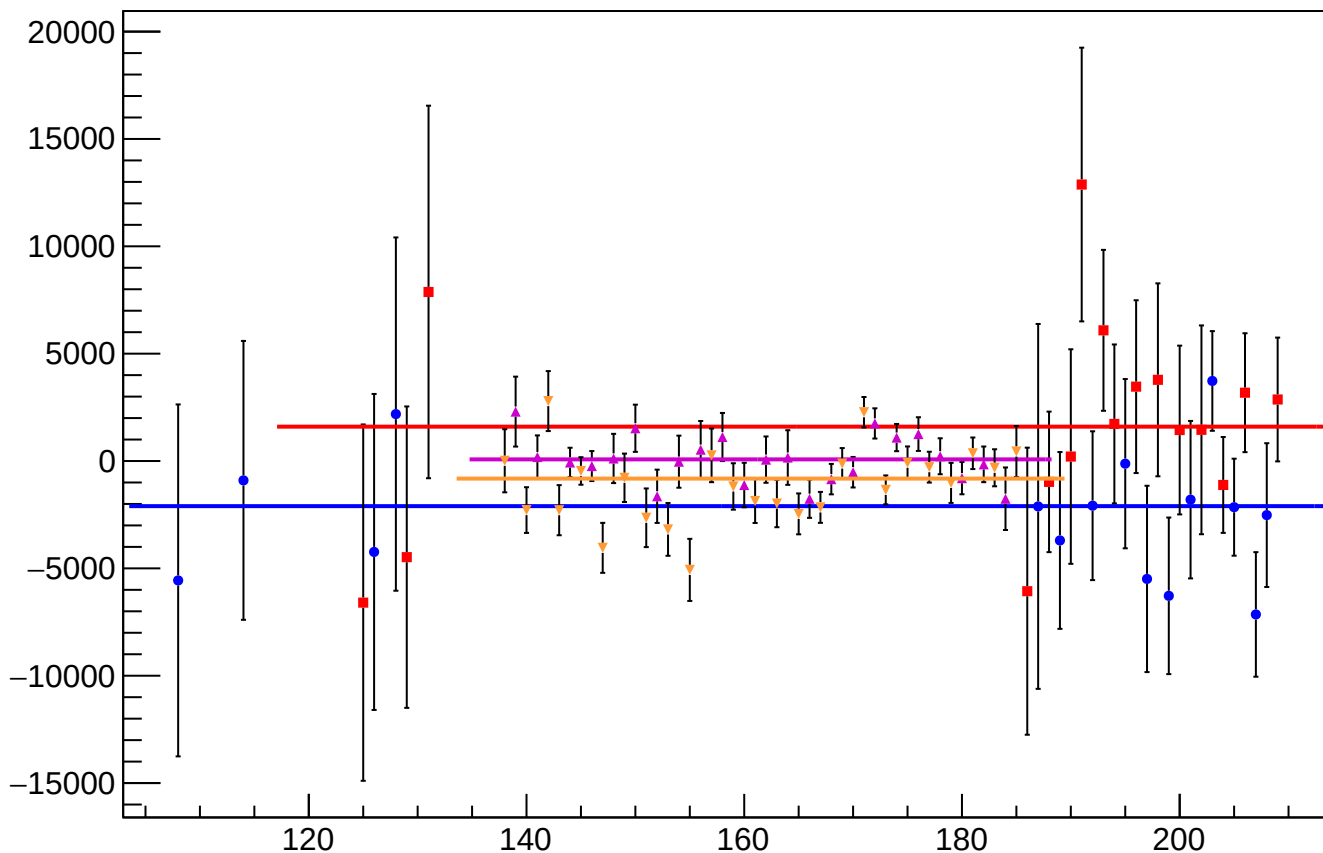
Right: 133.769 $\pm$ 0.020 χ^2 /NDF: 14415503.7/59

In: 99.450 $\pm$ 0.014 χ^2 /NDF:9206325.0/50

Out: 98.900 $\pm$ 0.013 χ^2 /NDF:10994833.4/56

All: 99.167 $\pm$ 0.009 χ^2 /NDF: 20201998.5/107

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2101.853 ± 960.238 $\chi^2/\text{NDF}: 12.2/14$

Left Out: -818.877 ± 184.464 $\chi^2/\text{NDF}: 68.2/24$

Right Out: 1600.489 ± 979.412 $\chi^2/\text{NDF}: 11.3/15$

Left In: 76.204 ± 186.651 $\chi^2/\text{NDF}: 28.3/22$

Left: -376.610 ± 131.202 $\chi^2/\text{NDF}: 108.1/47$

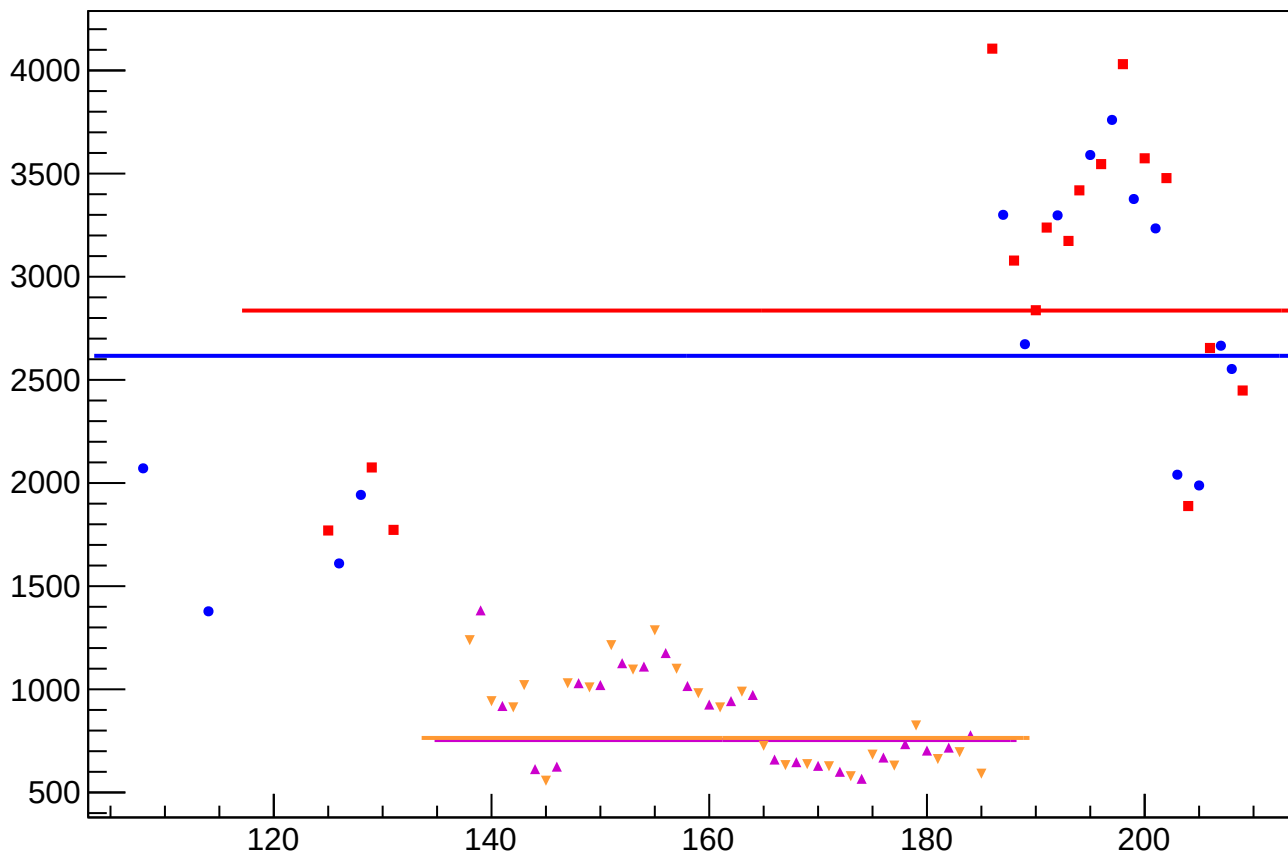
Right: -287.277 ± 685.669 $\chi^2/\text{NDF}: 30.8/30$

In: -3.094 ± 183.221 $\chi^2/\text{NDF}: 45.5/37$

Out: -735.995 ± 181.277 $\chi^2/\text{NDF}: 85.4/40$

All: -373.455 ± 128.864 $\chi^2/\text{NDF}: 138.9/78$

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2616.627 $\pm$ 0.679 χ^2 /NDF: 906862.8/14

Left Out: 764.280 $\pm$ 0.130 χ^2 /NDF: 2315985.8/24

Right Out: 2836.067 $\pm$ 0.693 χ^2 /NDF: 957539.6/15

Left In: 754.027 $\pm$ 0.132 χ^2 /NDF: 2013386.7/22

Left: 759.214 $\pm$ 0.093 χ^2 /NDF: 4332425.4/47

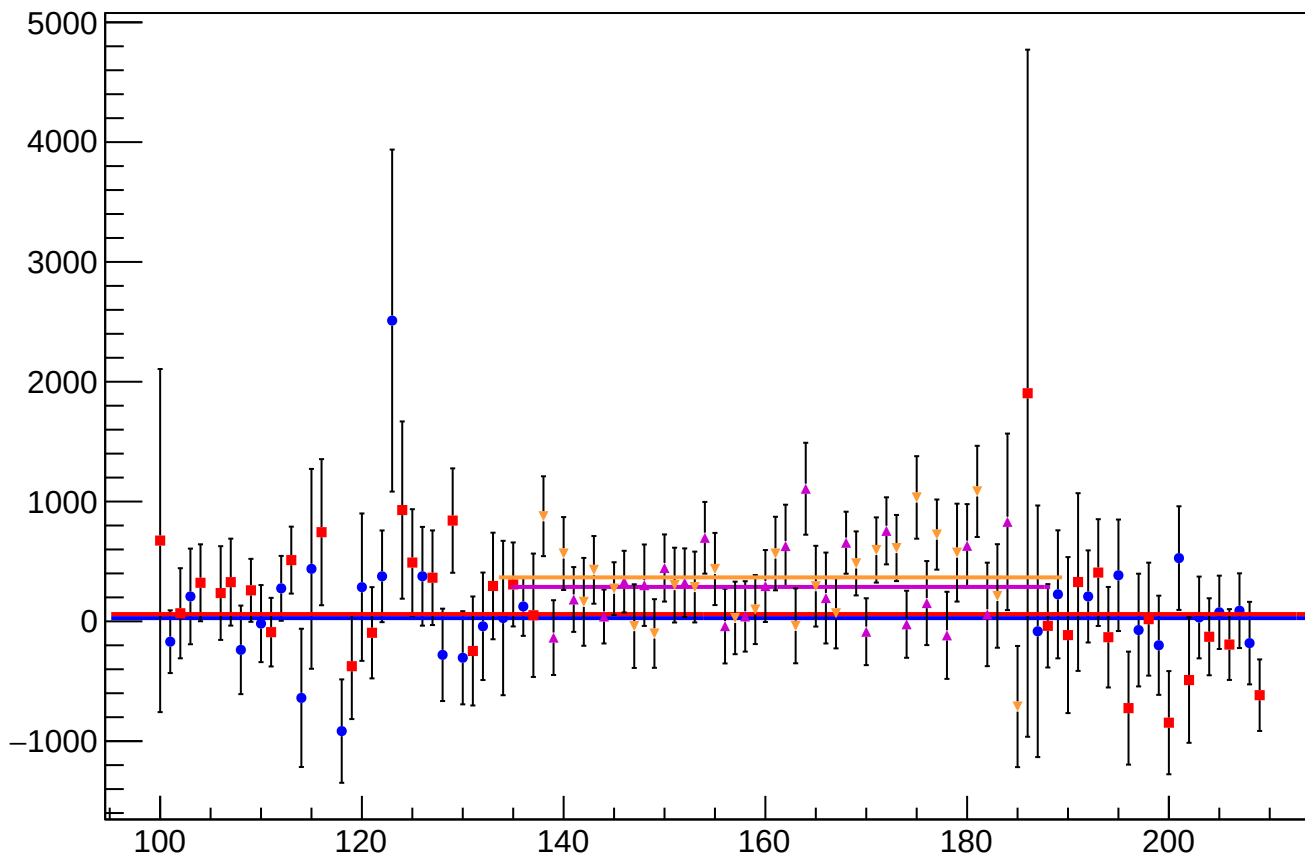
Right: 2724.178 $\pm$ 0.485 χ^2 /NDF: 1915594.3/30

In: 821.840 $\pm$ 0.130 χ^2 /NDF: 10171369.1/37

Out: 835.254 $\pm$ 0.128 χ^2 /NDF: 11916262.0/40

All: 828.618 $\pm$ 0.091 χ^2 /NDF: 22093047.9/78

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 26.904 $\pm$ 73.728 χ^2 /NDF: 17.9/27

Left Out: 367.028 $\pm$ 61.943 χ^2 /NDF:28.2/24

Right Out: 60.905 $\pm$ 70.779 χ^2 /NDF: 30.8/31

Left In: 287.246 $\pm$ 64.141 χ^2 /NDF:23.9/22

Left: 328.527 $\pm$ 44.557 χ^2 /NDF: 52.9/47

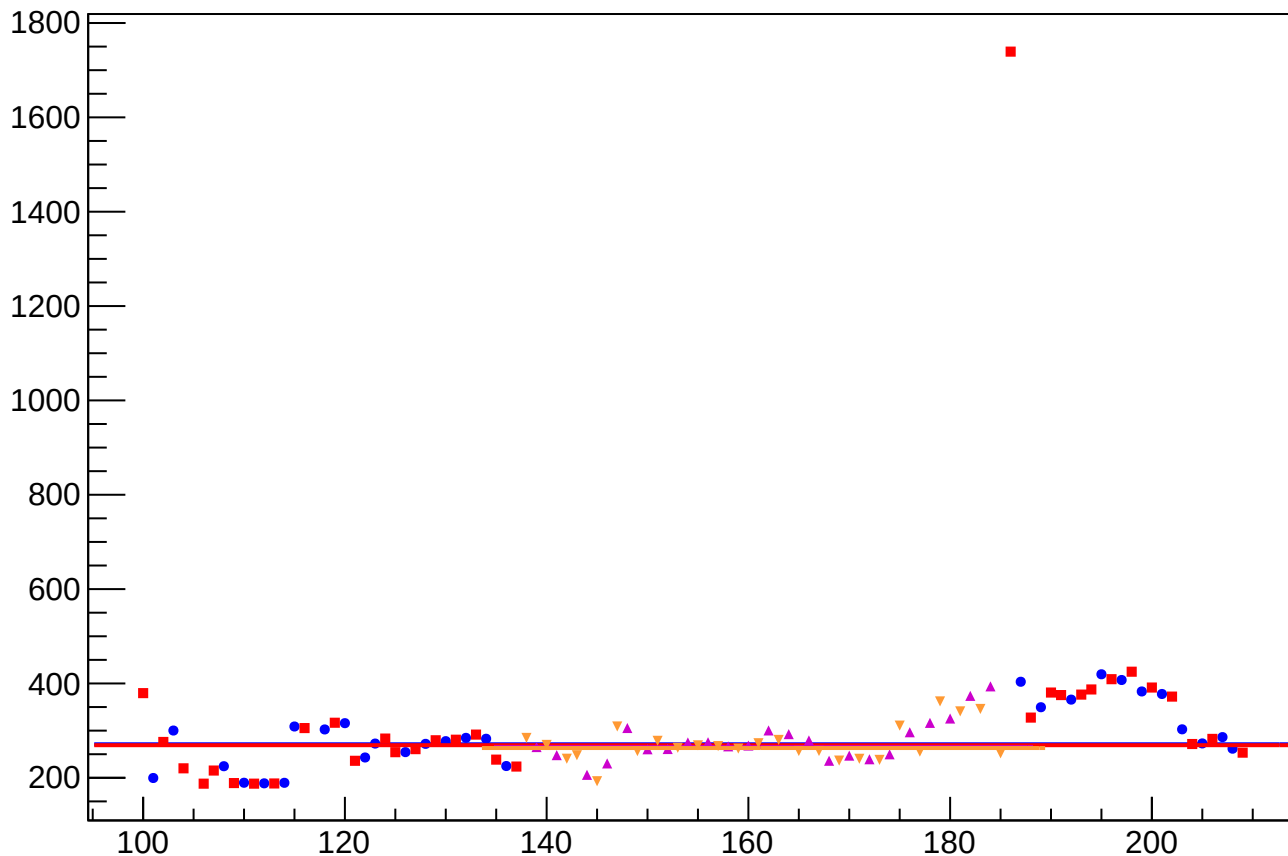
Right: 44.598 $\pm$ 51.059 χ^2 /NDF: 48.8/59

In: 175.093 $\pm$ 48.391 χ^2 /NDF:48.8/50

Out: 234.255 $\pm$ 46.613 χ^2 /NDF:69.7/56

All: 205.781 $\pm$ 33.572 χ^2 /NDF: 119.3/107

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 271.076+/-0.052 χ^2/NDF : 1518807.9/27

Left Out: 263.103+/-0.044 χ^2/NDF : 642226.0/24

Right Out: 269.130+/-0.050 χ^2/NDF : 2394386.1/31

Left In: 264.923+/-0.045 χ^2/NDF : 609024.7/22

Left: 263.981+/-0.032 χ^2/NDF : 1252084.1/47

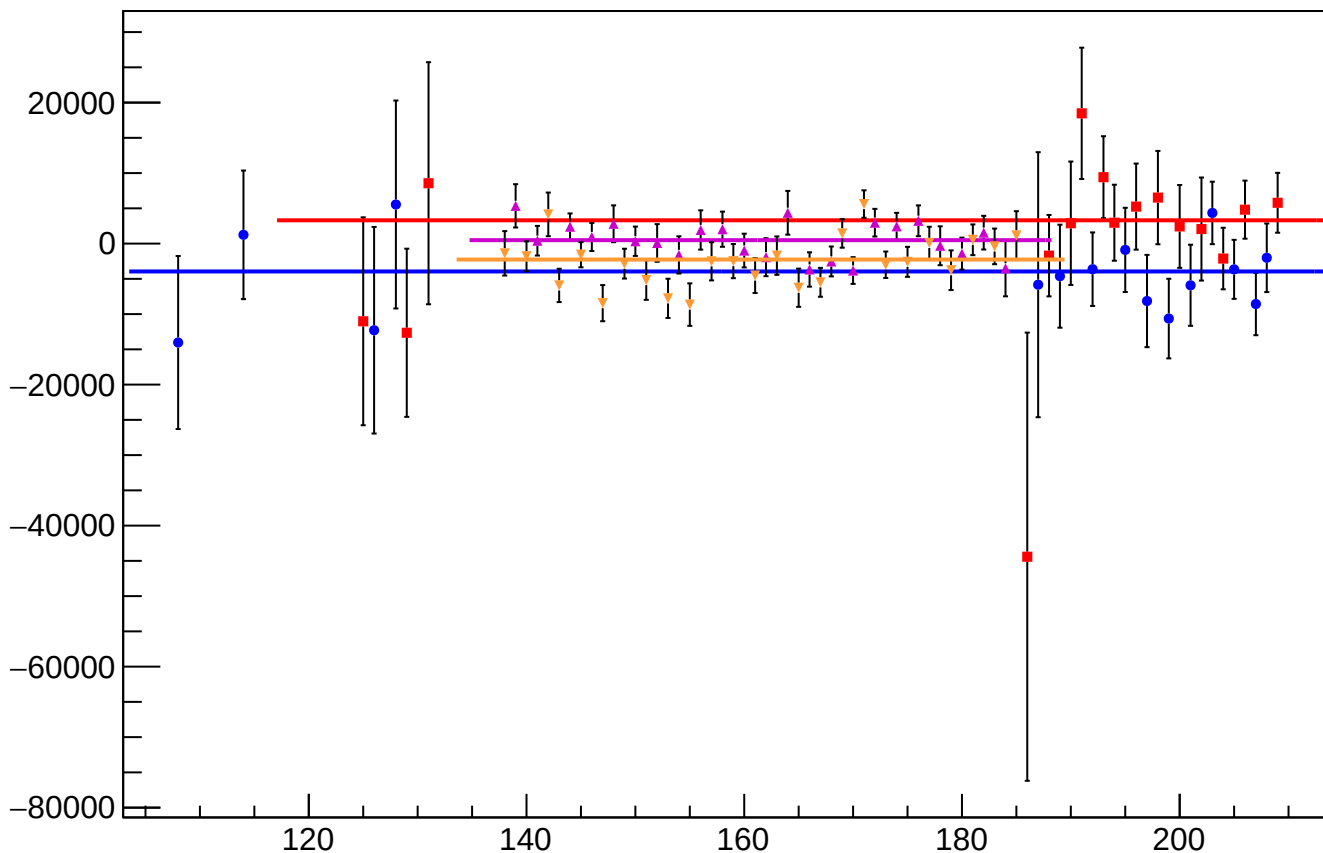
Right: 270.063+/-0.036 χ^2/NDF : 3913918.9/59

In: 267.573+/-0.034 χ^2/NDF : 2135760.3/50

Out: 265.717+/-0.033 χ^2/NDF : 3044824.3/56

All: 266.610+/-0.024 χ^2/NDF : 5182111.5/107

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -3951.936 ± 1580.025 χ^2/NDF : 8.7/14

Left Out: -2260.196 ± 475.336 χ^2/NDF : 52.3/24

Right Out: 3304.358 ± 1583.252 χ^2/NDF : 12.0/15

Left In: 485.590 ± 487.465 χ^2/NDF : 24.8/22

Left: -921.890 ± 340.321 χ^2/NDF : 93.4/47

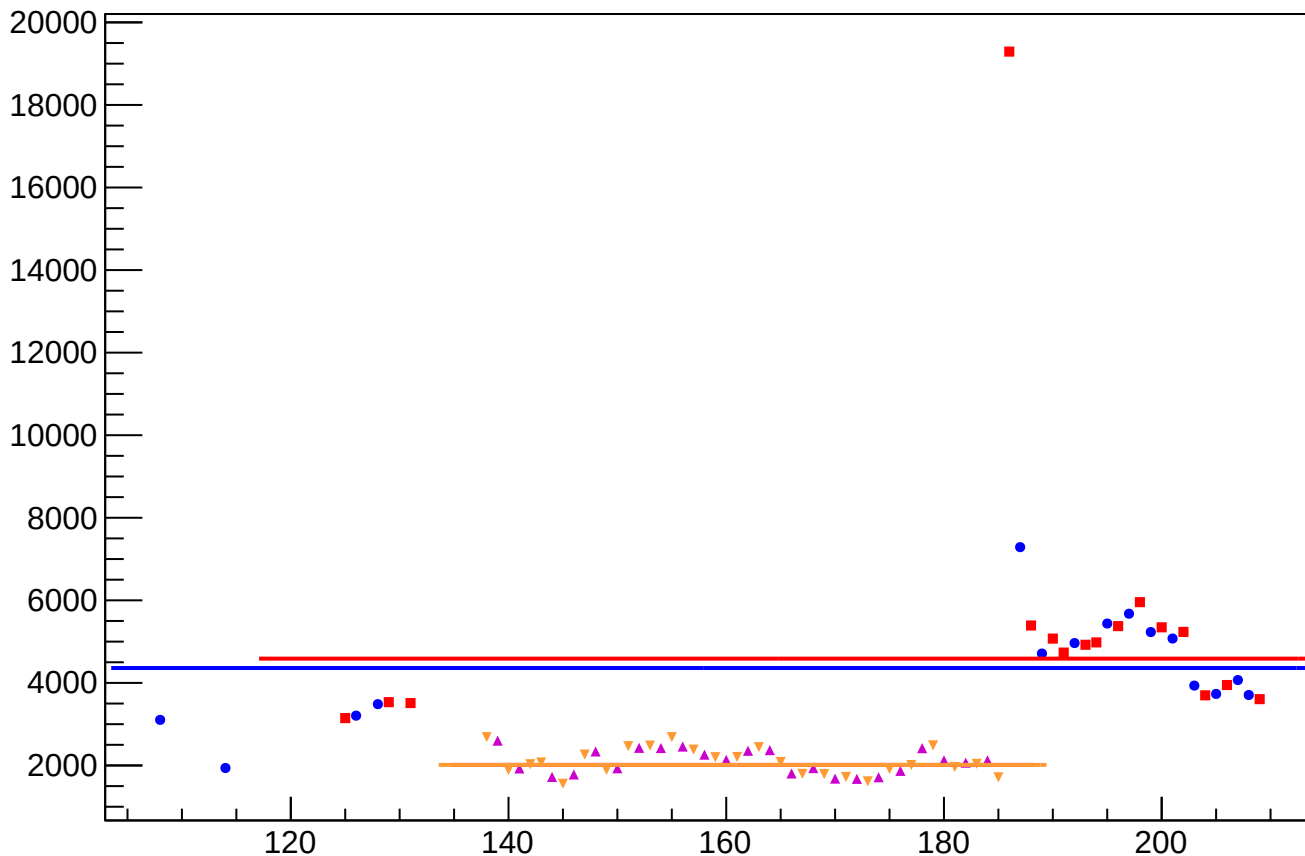
Right: -331.190 ± 1118.386 χ^2/NDF : 31.2/30

In: 99.922 ± 465.801 χ^2/NDF : 40.7/37

Out: -1800.098 ± 455.260 χ^2/NDF : 75.7/40

All: -871.829 ± 325.580 χ^2/NDF : 124.9/78

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4360.447+/-1.117 χ^2/NDF : 593878.8/14

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4588.059+/-1.120 χ^2/NDF : 939008.3/15

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

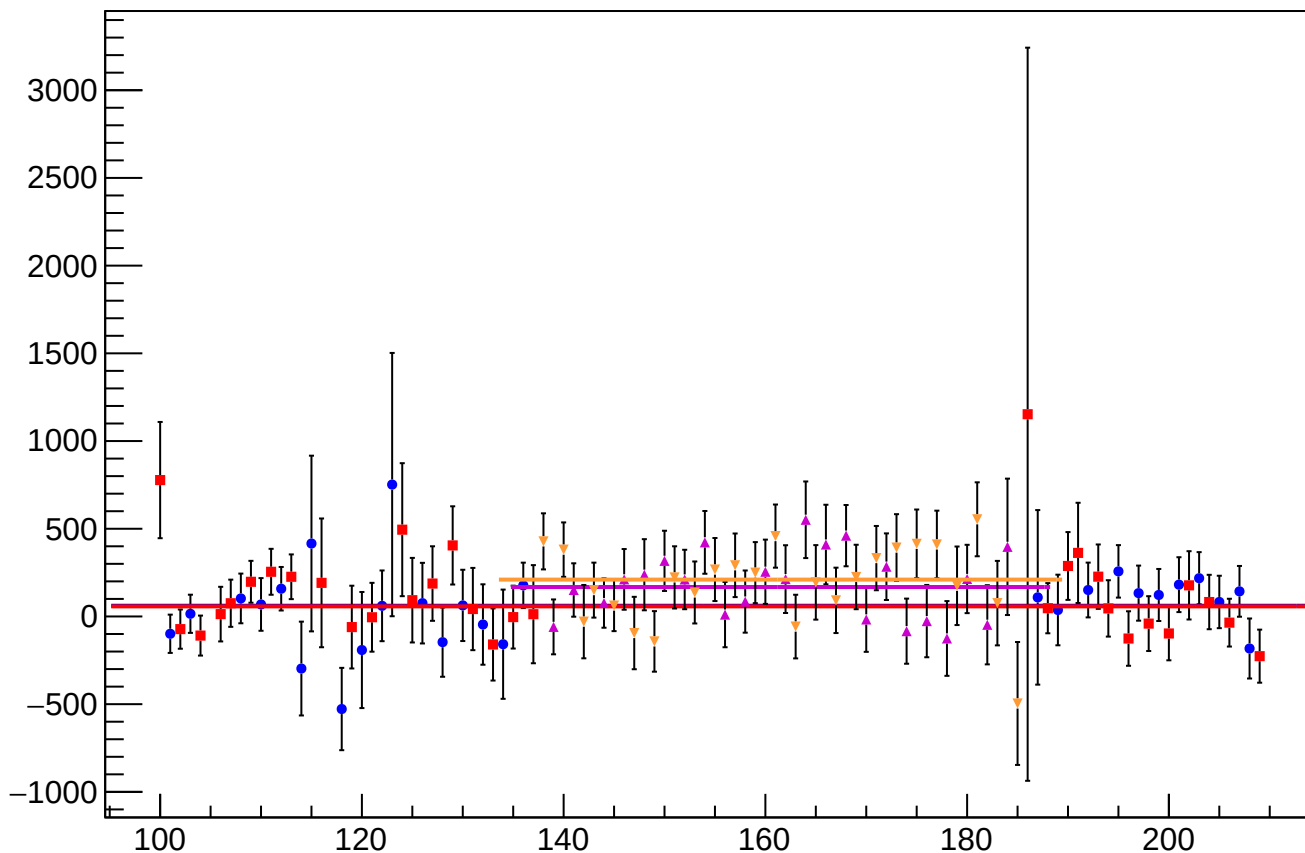
Right: 4474.021+/-0.791 χ^2/NDF : 1553596.9/30

In: 2217.242+/-0.329 χ^2/NDF : 5286060.1/37

Out: 2226.930+/-0.322 χ^2/NDF : 6623647.2/40

All: 2222.197+/-0.230 χ^2/NDF : 11910149.8/71

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 61.073+/-32.101 χ^2/NDF : 22.2/27

Left Out: 210.086+/-37.093 χ^2/NDF : 27.5/24

Right Out: 57.450+/-30.104 χ^2/NDF : 30.5/31

Left In: 167.822+/-38.718 χ^2/NDF : 21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

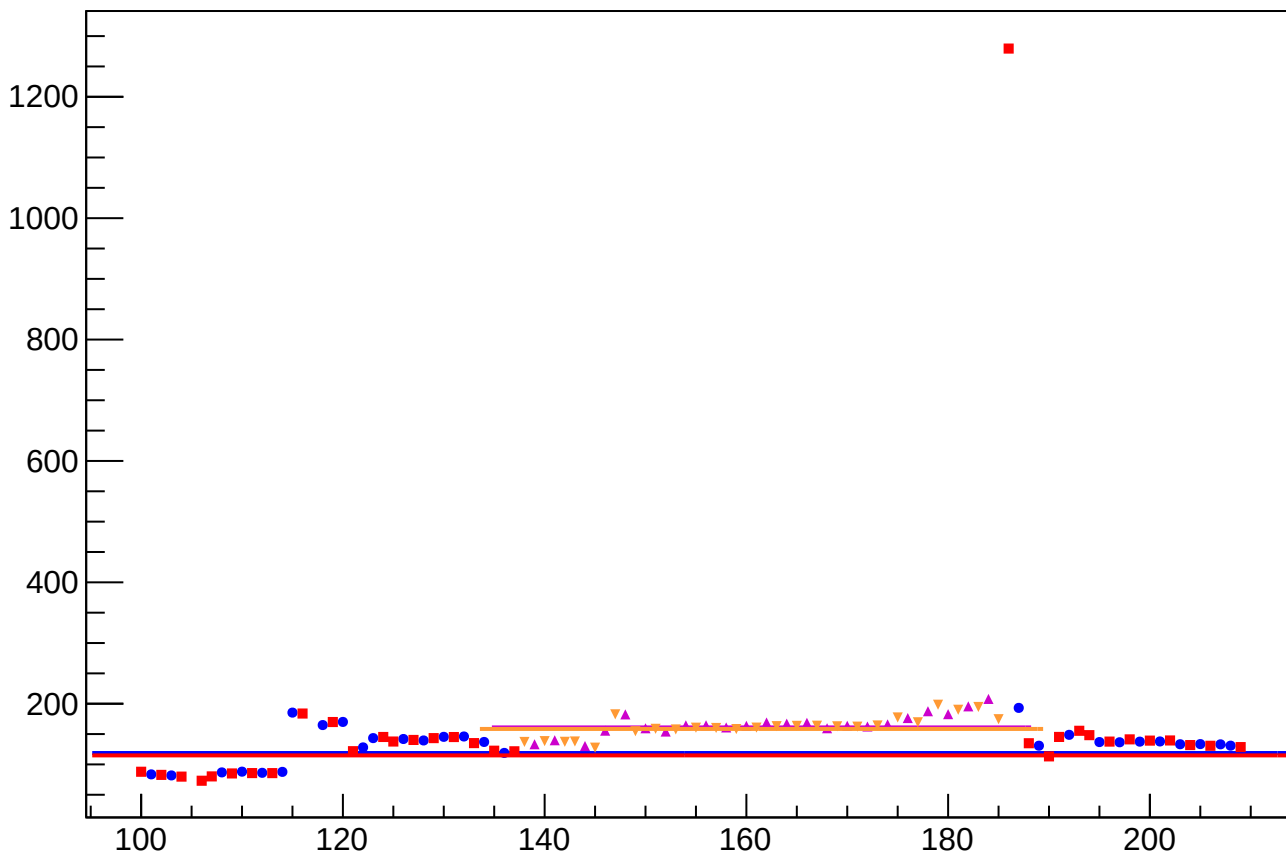
Right: 59.146+/-21.959 χ^2/NDF : 52.7/59

In: 104.561+/-24.712 χ^2/NDF : 47.8/50

Out: 118.062+/-23.375 χ^2/NDF : 68.2/56

All: 111.687+/-16.982 χ^2/NDF : 116.2/107

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 118.750 $\pm$ 0.023 χ^2 /NDF: 1376935.5/27

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 114.848 $\pm$ 0.021 χ^2 /NDF: 2419248.1/31

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

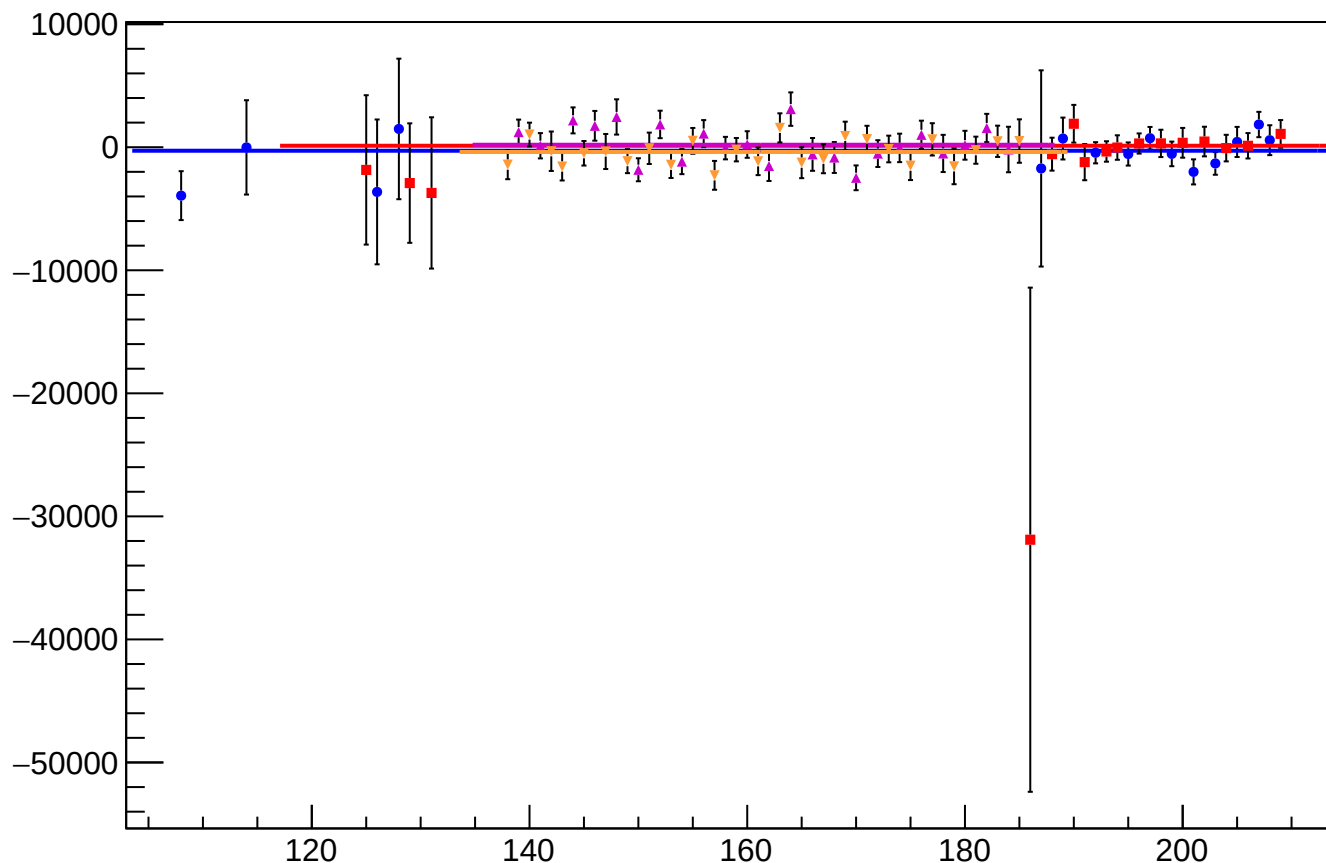
Right: 116.674 $\pm$ 0.016 χ^2 /NDF: 3811911.8/59

In: 135.941 $\pm$ 0.017 χ^2 /NDF: 3164453.2/50

Out: 132.158 $\pm$ 0.017 χ^2 /NDF: 4518889.4/56

All: 133.944 $\pm$ 0.012 χ^2 /NDF: 7708068.4/107

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -284.569+/-318.503 χ^2/NDF : 14.8/14

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: 120.772+/-312.080 χ^2/NDF : 7.1/15

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

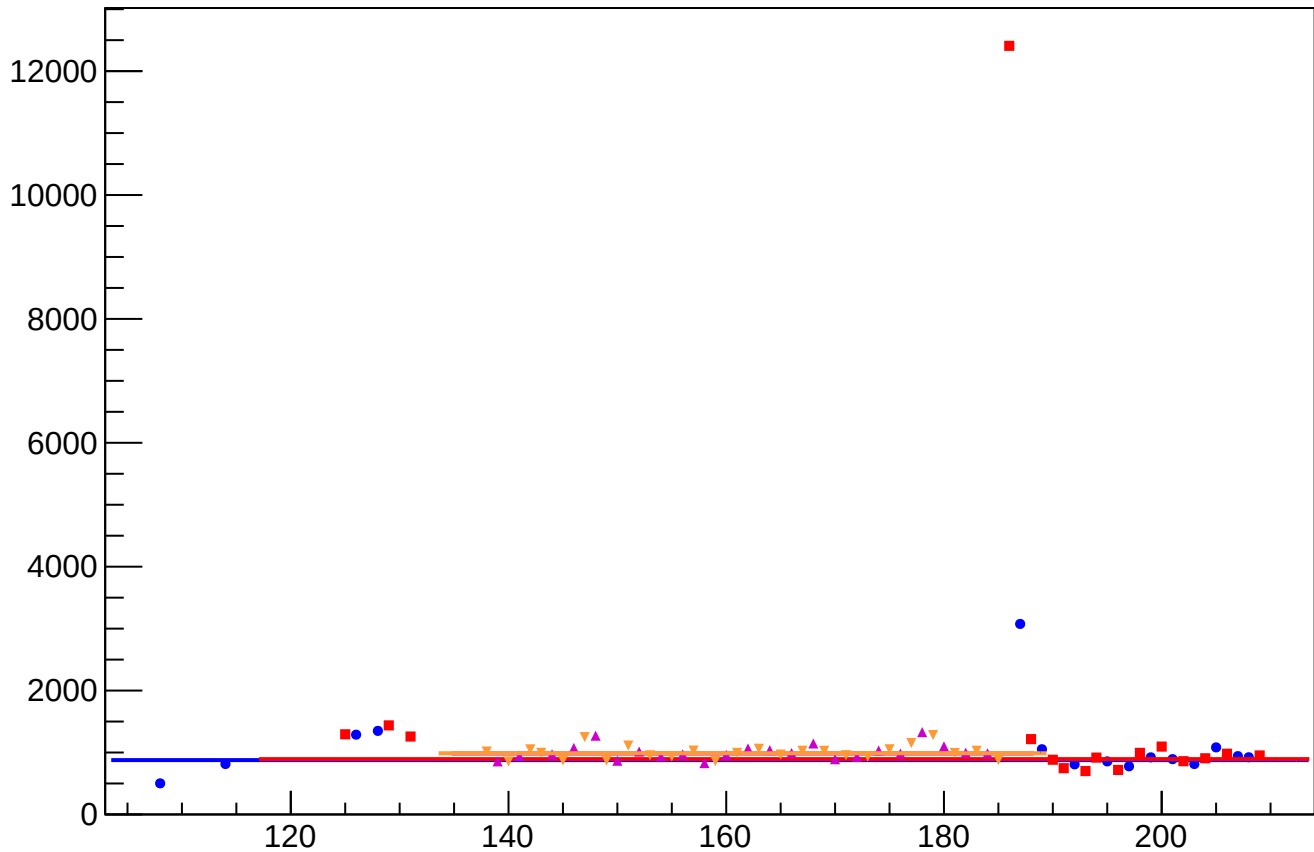
Right: -77.770+/-222.910 χ^2/NDF : 22.7/30

In: 28.318+/-190.374 χ^2/NDF : 51.8/37

Out: -205.156+/-186.102 χ^2/NDF : 26.8/40

All: -91.068+/-133.079 χ^2/NDF : 79.4/78

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 877.456+/-0.225 χ^2/NDF : 386857.0/14

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 893.589+/-0.221 χ^2/NDF : 1103532.7/15

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

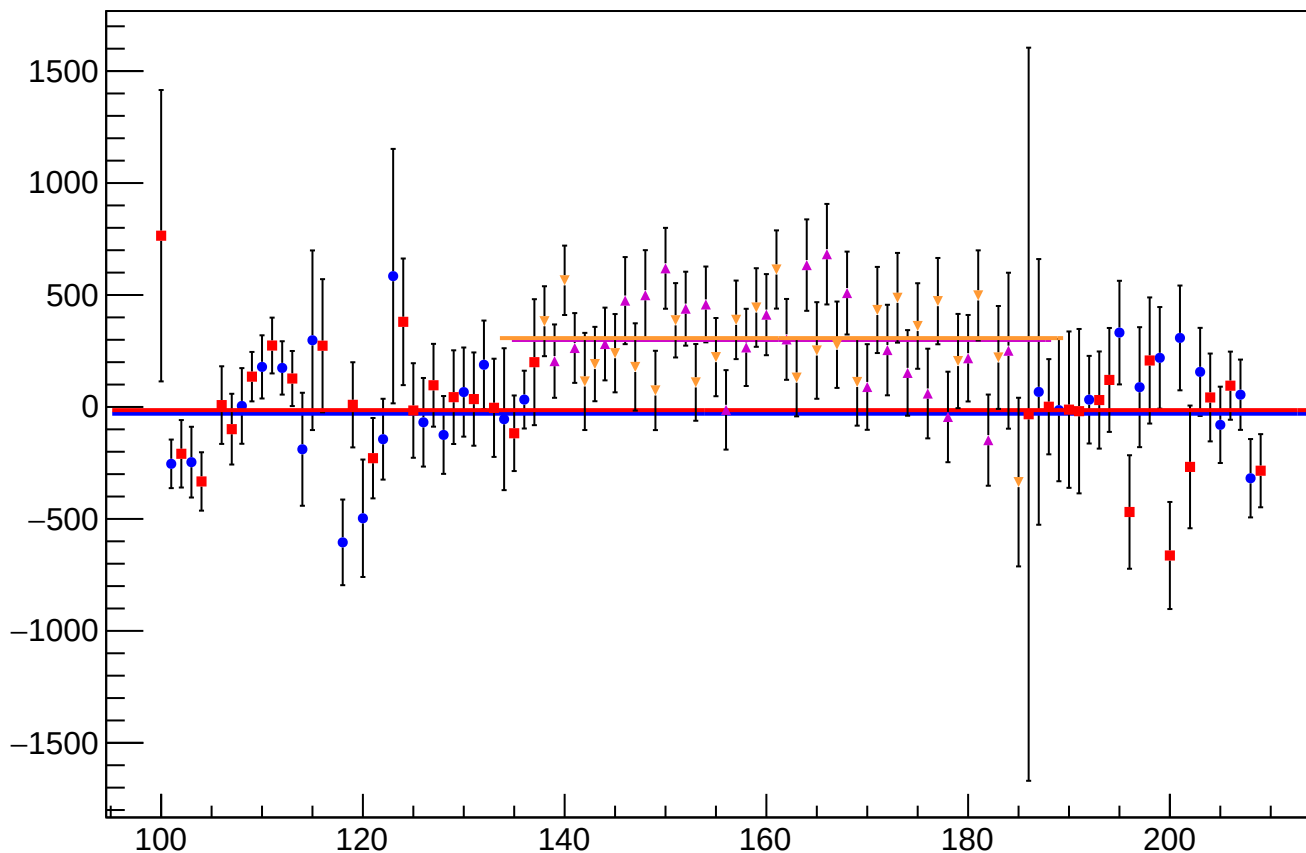
Right: 885.687+/-0.158 χ^2/NDF : 1493007.6/30

In: 945.867+/-0.135 χ^2/NDF : 946678.1/37

Out: 954.342+/-0.132 χ^2/NDF : 1598111.6/40

All: 950.201+/-0.094 χ^2/NDF : 2546816.5/78

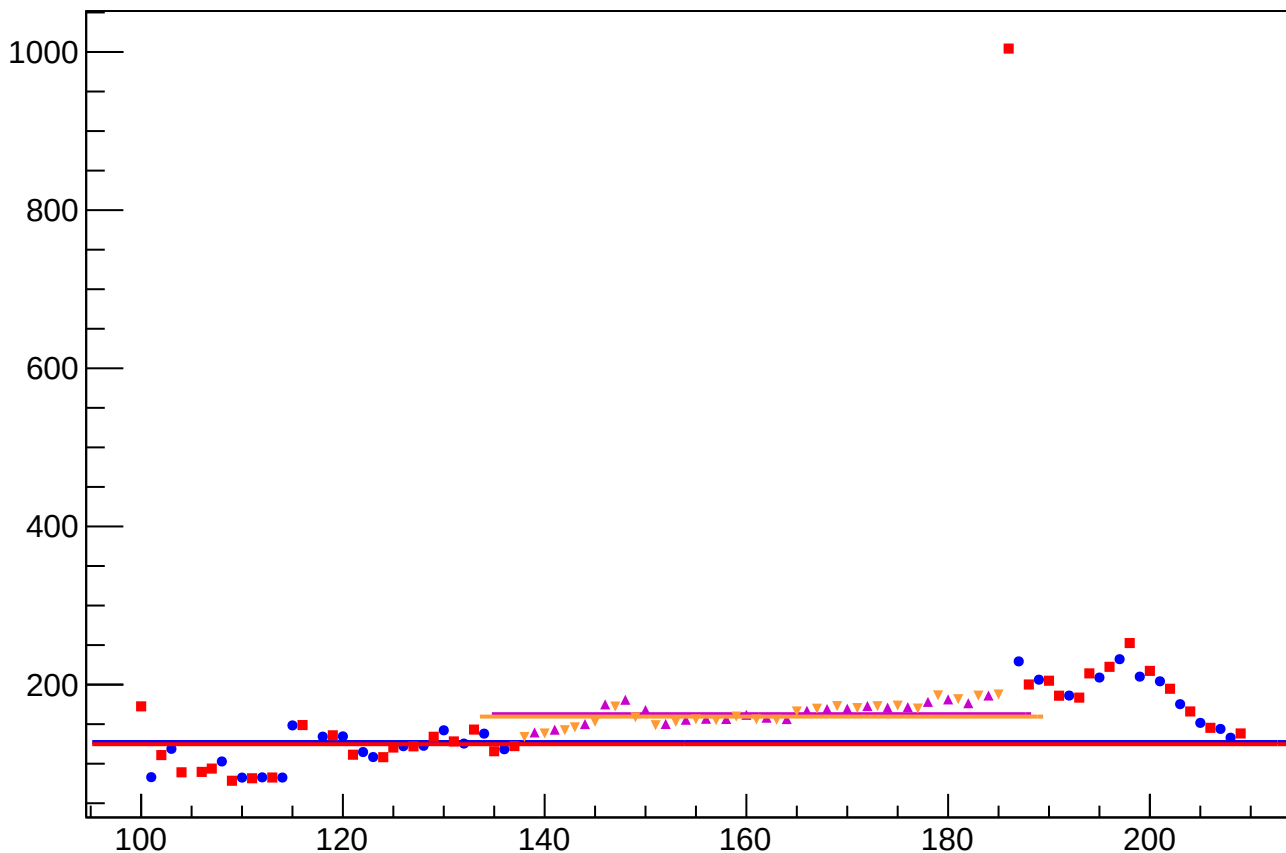
reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -30.159 ± 35.342 $\chi^2/\text{NDF}: 38.3/27$
 Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$
 Right Out: -14.139 ± 33.643 $\chi^2/\text{NDF}: 39.5/31$
 Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$
 Right: -21.755 ± 24.368 $\chi^2/\text{NDF}: 77.8/59$
 In: 118.310 ± 26.191 $\chi^2/\text{NDF}: 105.9/50$
 Out: 130.235 ± 24.976 $\chi^2/\text{NDF}: 101.2/56$
 All: 124.556 ± 18.075 $\chi^2/\text{NDF}: 207.2/107$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 127.389+/-0.025 χ^2/NDF : 2560967.4/27

Left Out: 159.568+/-0.026 χ^2/NDF : 287744.2/24

Right Out: 124.646+/-0.024 χ^2/NDF : 3940906.8/31

Left In: 162.606+/-0.028 χ^2/NDF : 199542.3/22

Left: 161.019+/-0.019 χ^2/NDF : 493626.9/47

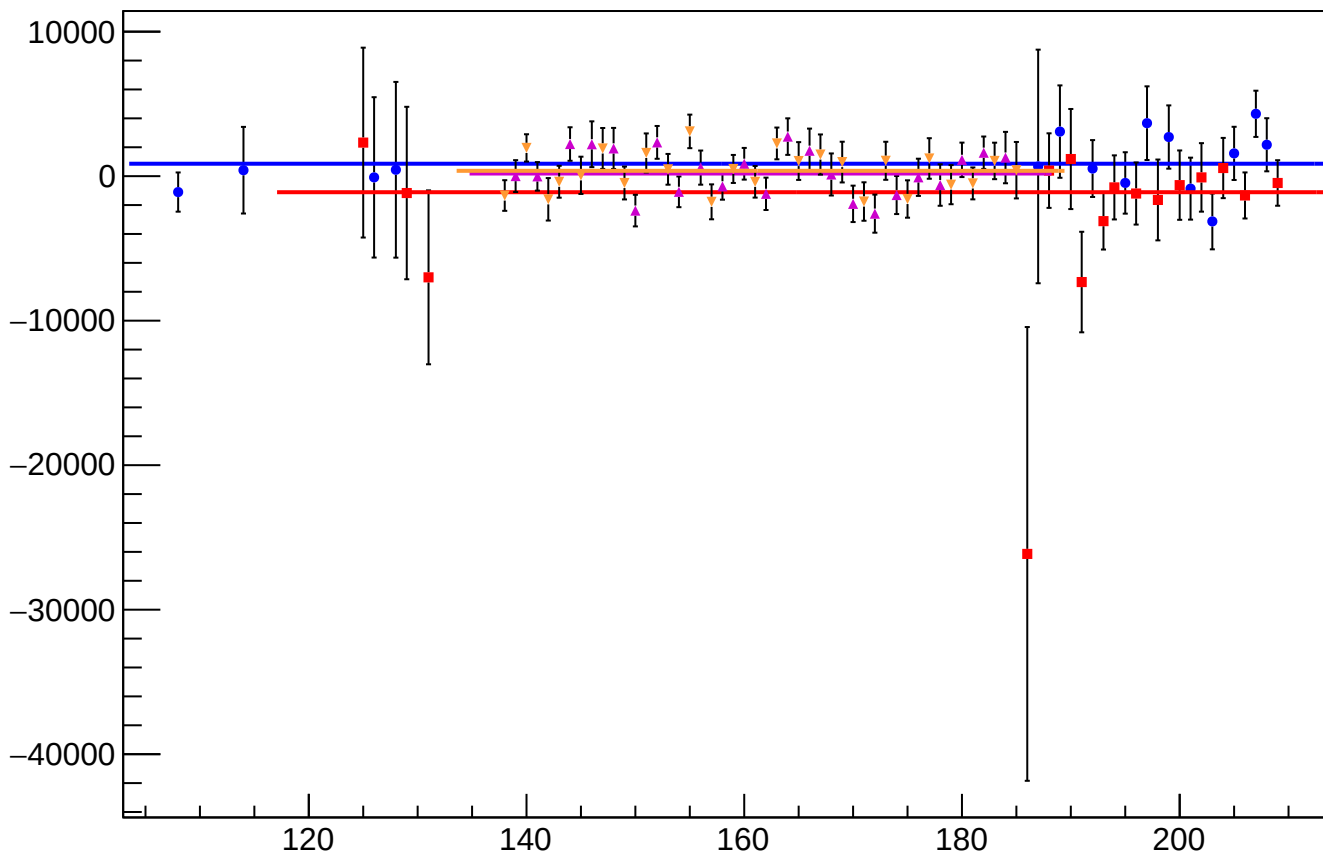
Right: 125.950+/-0.017 χ^2/NDF : 6508195.9/59

In: 143.265+/-0.019 χ^2/NDF : 3655778.2/50

Out: 140.322+/-0.018 χ^2/NDF : 5196016.0/56

All: 141.724+/-0.013 χ^2/NDF : 8865016.6/107

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 860.650+/-564.569 χ^2/NDF : 15.2/14

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -1110.780+/-622.031 χ^2/NDF : 9.9/15

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

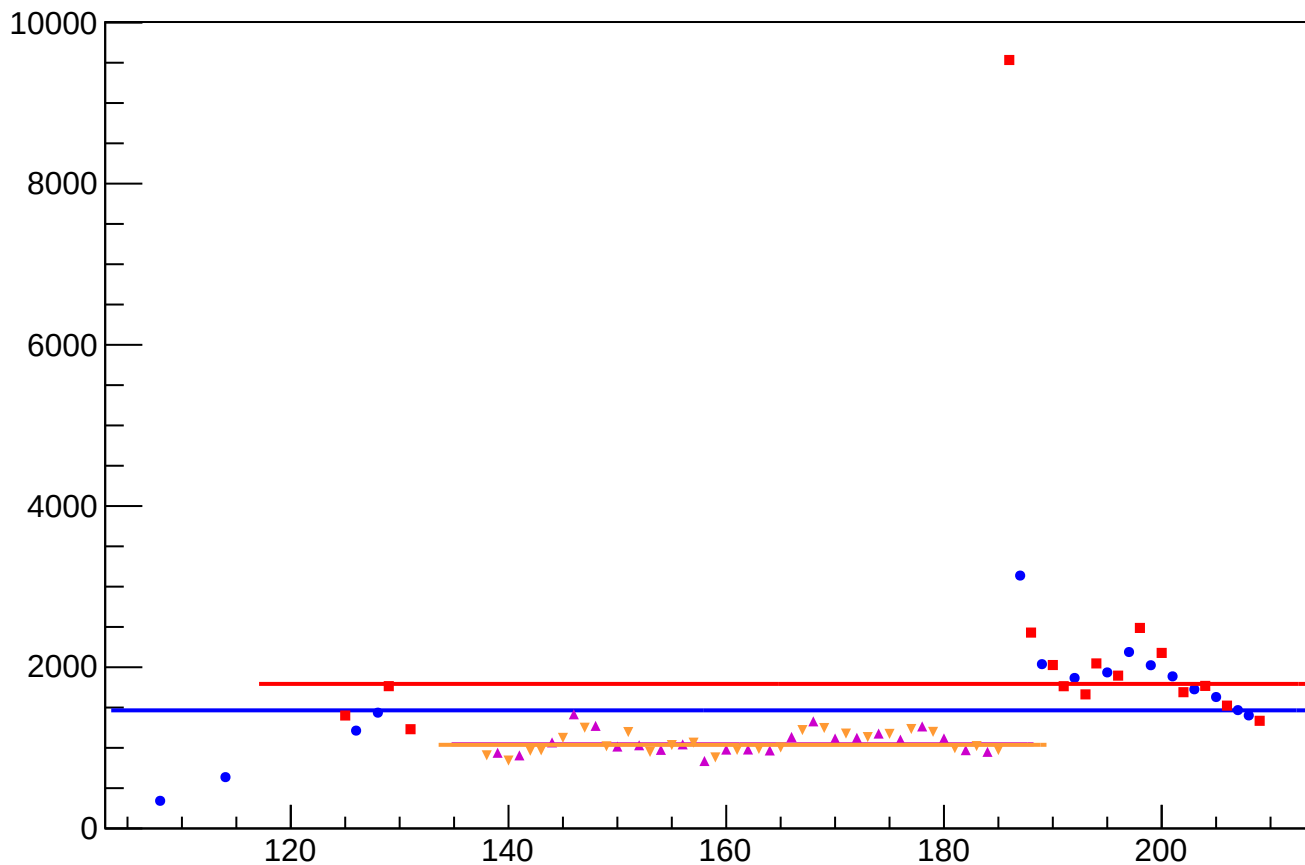
Right: -29.820+/-418.053 χ^2/NDF : 30.6/30

In: 295.863+/-230.313 χ^2/NDF :52.9/37

Out: 173.209+/-226.762 χ^2/NDF :45.3/40

All: 233.583+/-161.586 χ^2/NDF : 98.3/78

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1465.245+/-0.399 χ^2/NDF : 2281426.7/14

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1793.324+/-0.440 χ^2/NDF : 1086147.0/15

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

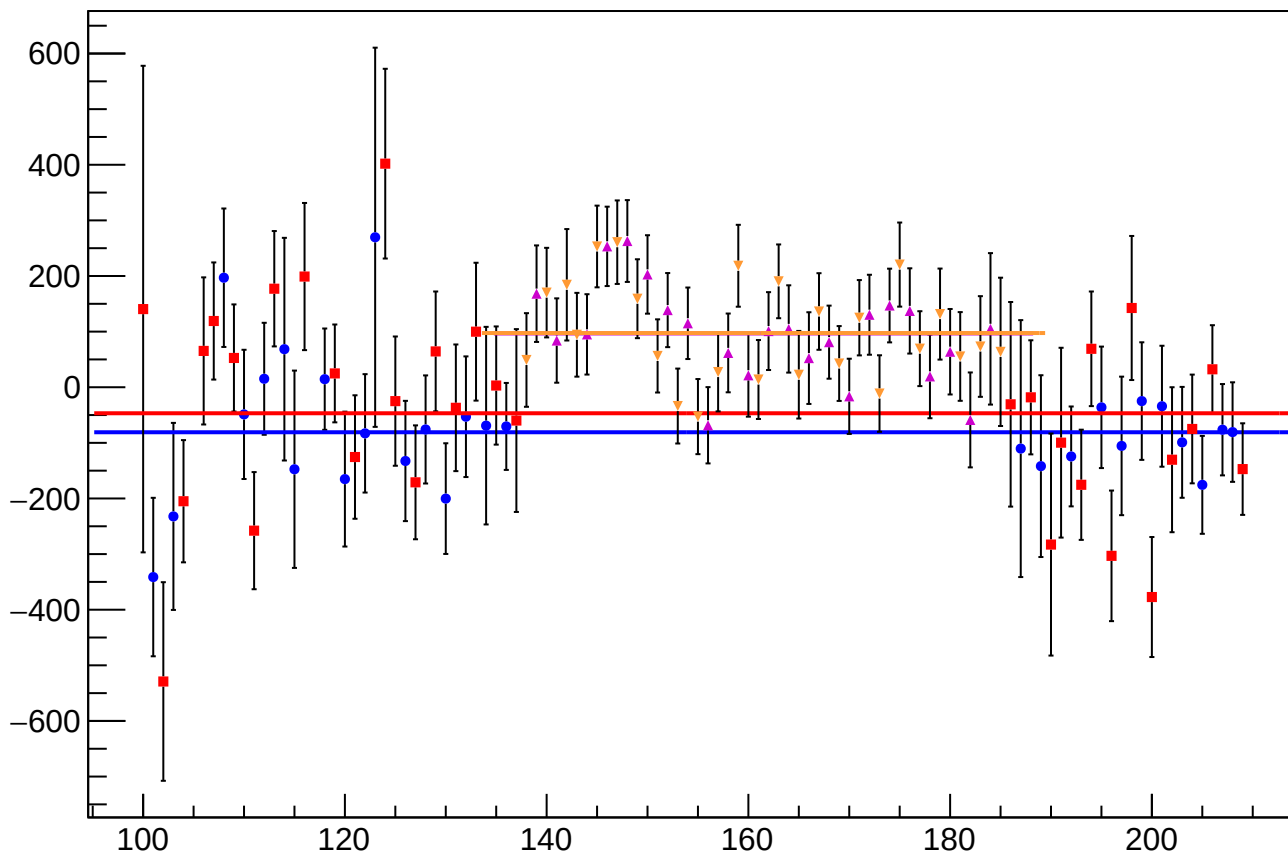
Right: 1613.434+/-0.296 χ^2/NDF : 3672636.5/30

In: 1114.725+/-0.163 χ^2/NDF : 3749600.2/37

Out: 1138.111+/-0.160 χ^2/NDF : 4140301.0/40

All: 1126.600+/-0.114 χ^2/NDF : 7900371.9/78

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -80.943 ± 21.118 χ^2/NDF : 17.5/27

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -46.786 ± 20.197 χ^2/NDF : 62.0/31

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

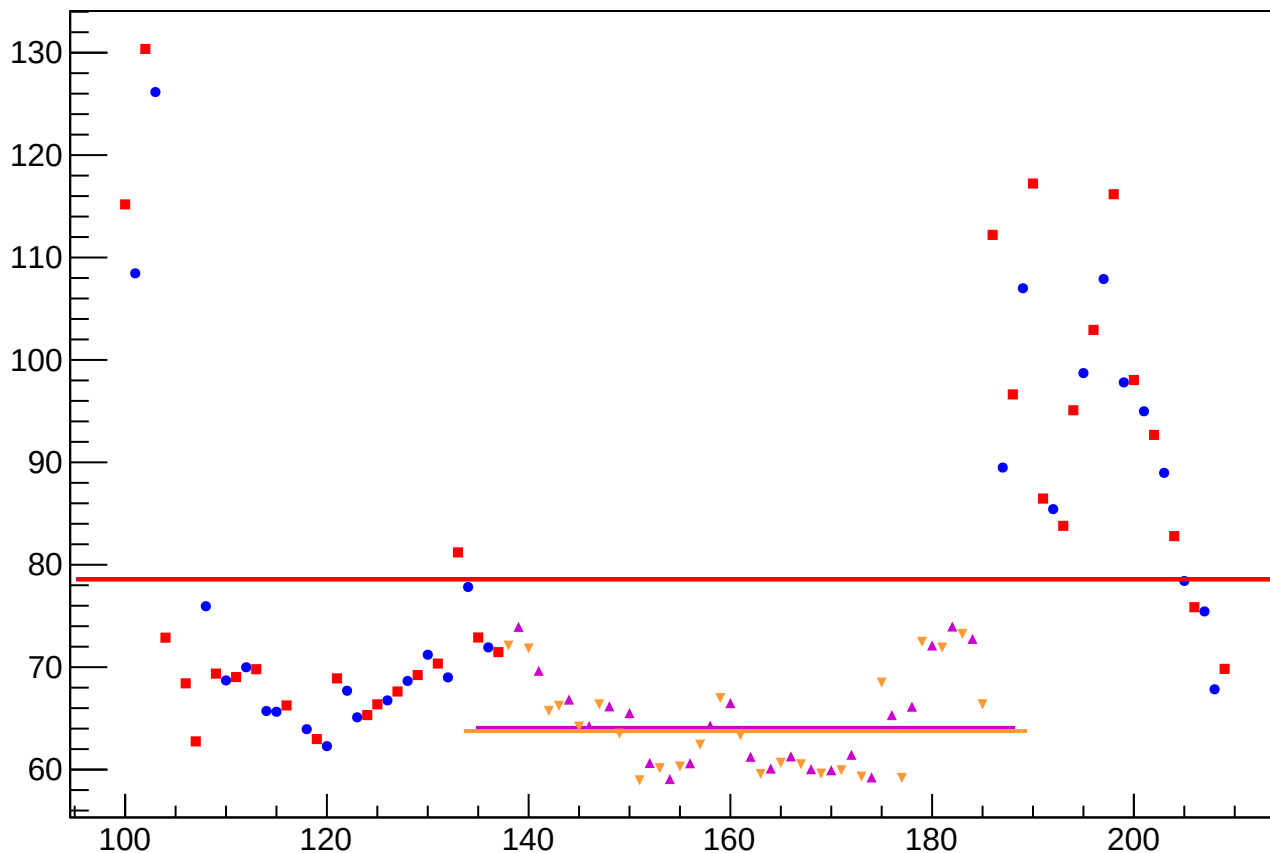
Right: -63.103 ± 14.596 χ^2/NDF : 80.9/59

In: 35.191 ± 12.427 χ^2/NDF : 92.9/50

Out: 46.703 ± 11.980 χ^2/NDF : 131.1/56

All: 41.158 ± 8.625 χ^2/NDF : 224.5/107

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 78.588 $\pm$ 0.015 χ^2 /NDF: 915098.7/27

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 78.575 $\pm$ 0.014 χ^2 /NDF: 1118723.2/31

Left In: 64.069 $\pm$ 0.011 χ^2 /NDF: 164660.4/22

Left: 63.910 $\pm$ 0.008 χ^2 /NDF: 357877.2/47

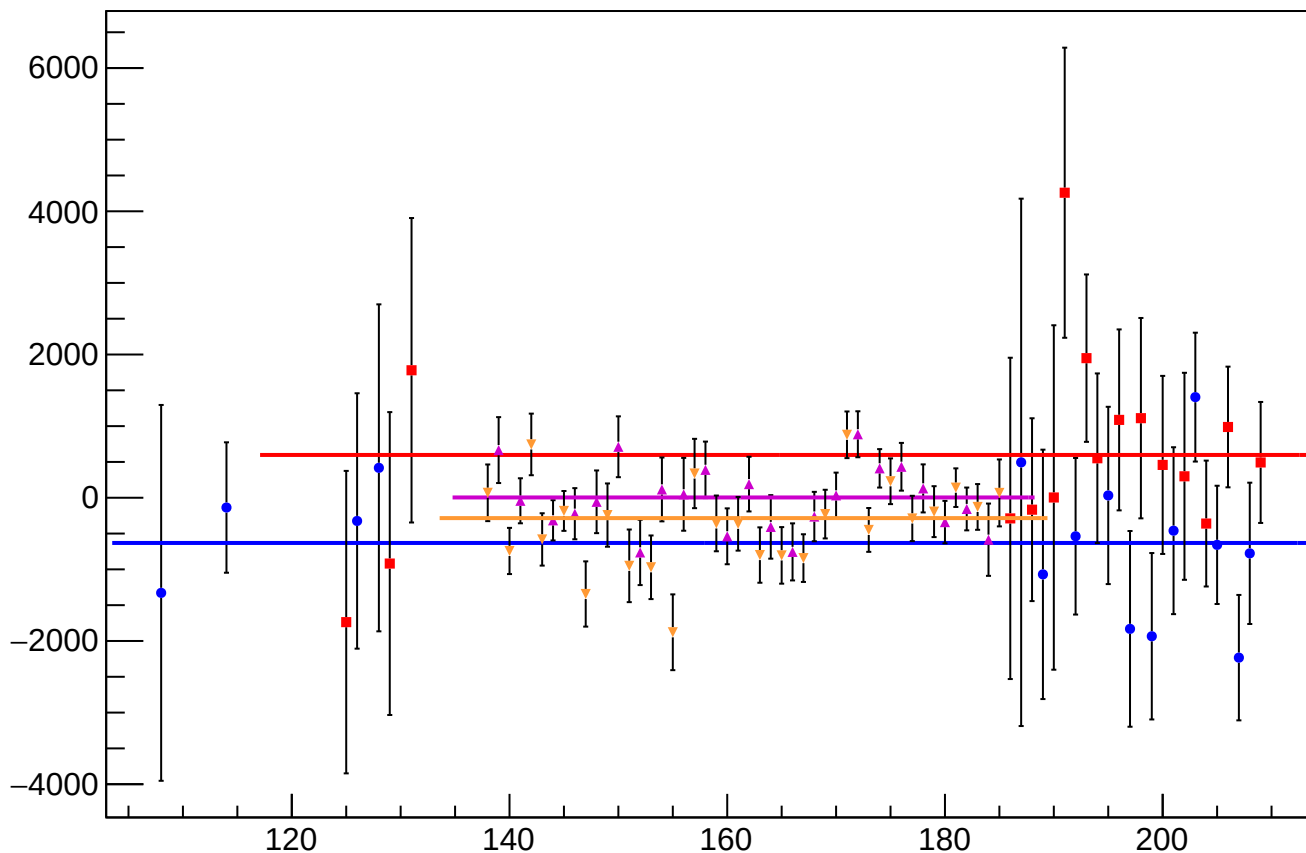
Right: 78.581 $\pm$ 0.010 χ^2 /NDF: 2033822.3/59

In: 69.096 $\pm$ 0.009 χ^2 /NDF: 1697804.6/50

Out: 68.973 $\pm$ 0.008 χ^2 /NDF: 2008894.6/56

All: 69.032 $\pm$ 0.006 χ^2 /NDF: 3706801.4/107

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -631.288+/-304.327 χ^2/NDF : 11.6/14

Left Out: -284.304+/-72.732 χ^2/NDF :55.1/24

Right Out: 597.617+/-320.912 χ^2/NDF : 9.0/15

Left In: 4.037+/-75.084 χ^2/NDF :32.4/22

Left: -144.720+/-52.241 χ^2/NDF : 95.0/47

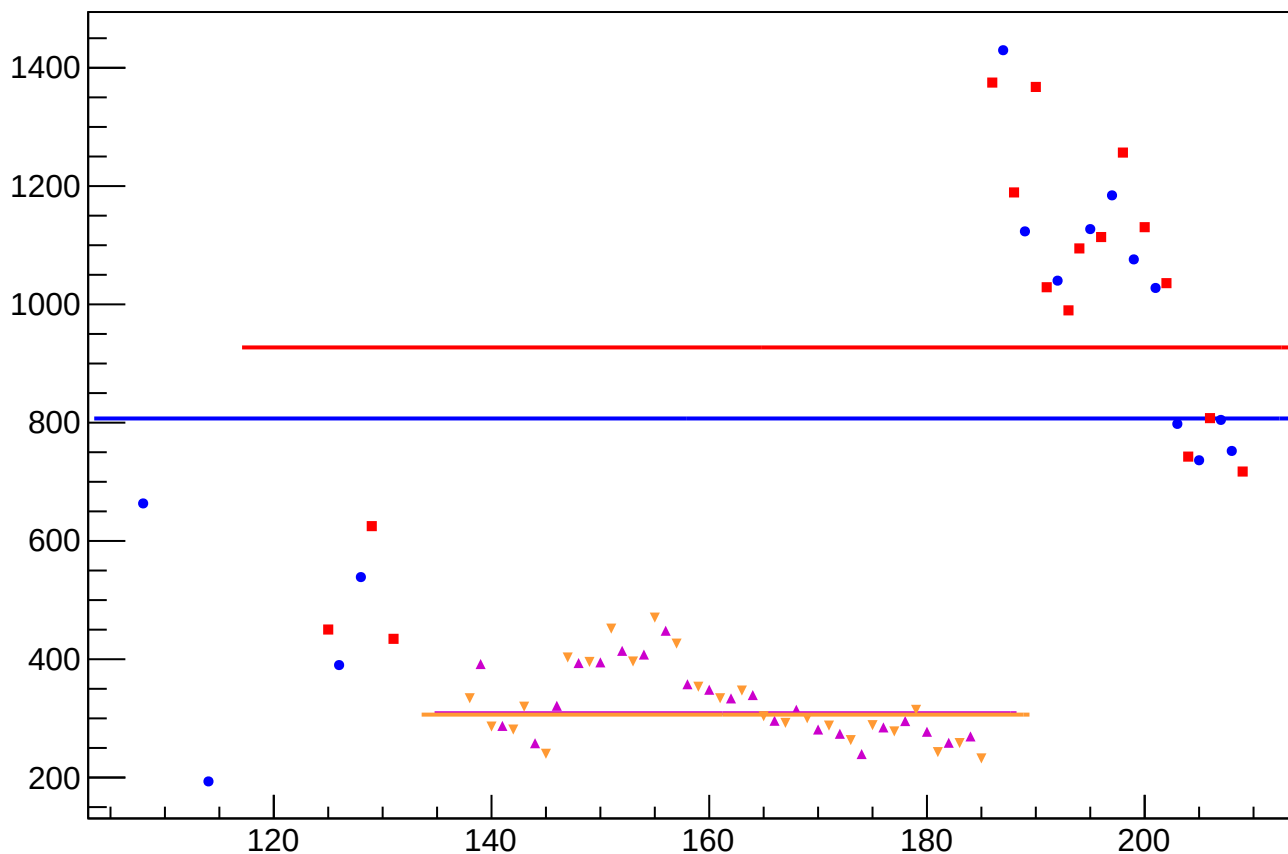
Right: -49.410+/-220.822 χ^2/NDF : 28.3/30

In: -32.418+/-72.898 χ^2/NDF :48.1/37

Out: -241.215+/-70.933 χ^2/NDF :71.2/40

All: -139.668+/-50.838 χ^2/NDF : 123.5/78

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 807.077+/-0.215 χ^2/NDF : 1751774.9/14

Left Out: 306.363+/-0.051 χ^2/NDF : 1215669.9/24

Right Out: 927.199+/-0.227 χ^2/NDF : 1003355.7/15

Left In: 308.727+/-0.053 χ^2/NDF : 1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

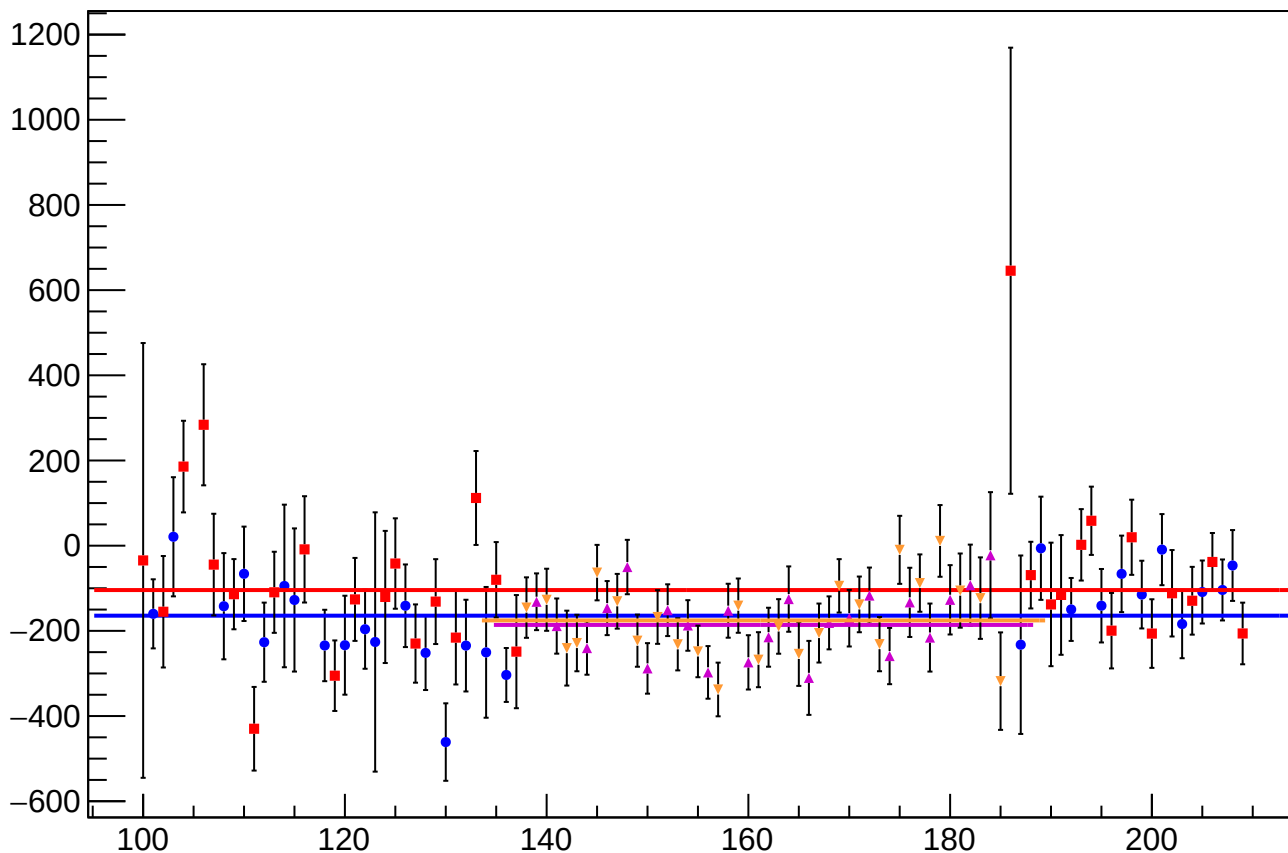
Right: 863.954+/-0.156 χ^2/NDF : 2902671.0/30

In: 337.321+/-0.052 χ^2/NDF : 7810112.5/37

Out: 336.695+/-0.050 χ^2/NDF : 9338675.4/40

All: 337.000+/-0.036 χ^2/NDF : 17148863.7/78

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -164.349 ± 17.904 χ^2/NDF : 32.0/27

Left Out: -175.471 ± 13.846 χ^2/NDF : 34.6/24

Right Out: -104.205 ± 17.464 χ^2/NDF : 56.9/31

Left In: -186.047 ± 14.315 χ^2/NDF : 23.6/22

Left: -180.583 ± 9.952 χ^2/NDF : 58.5/47

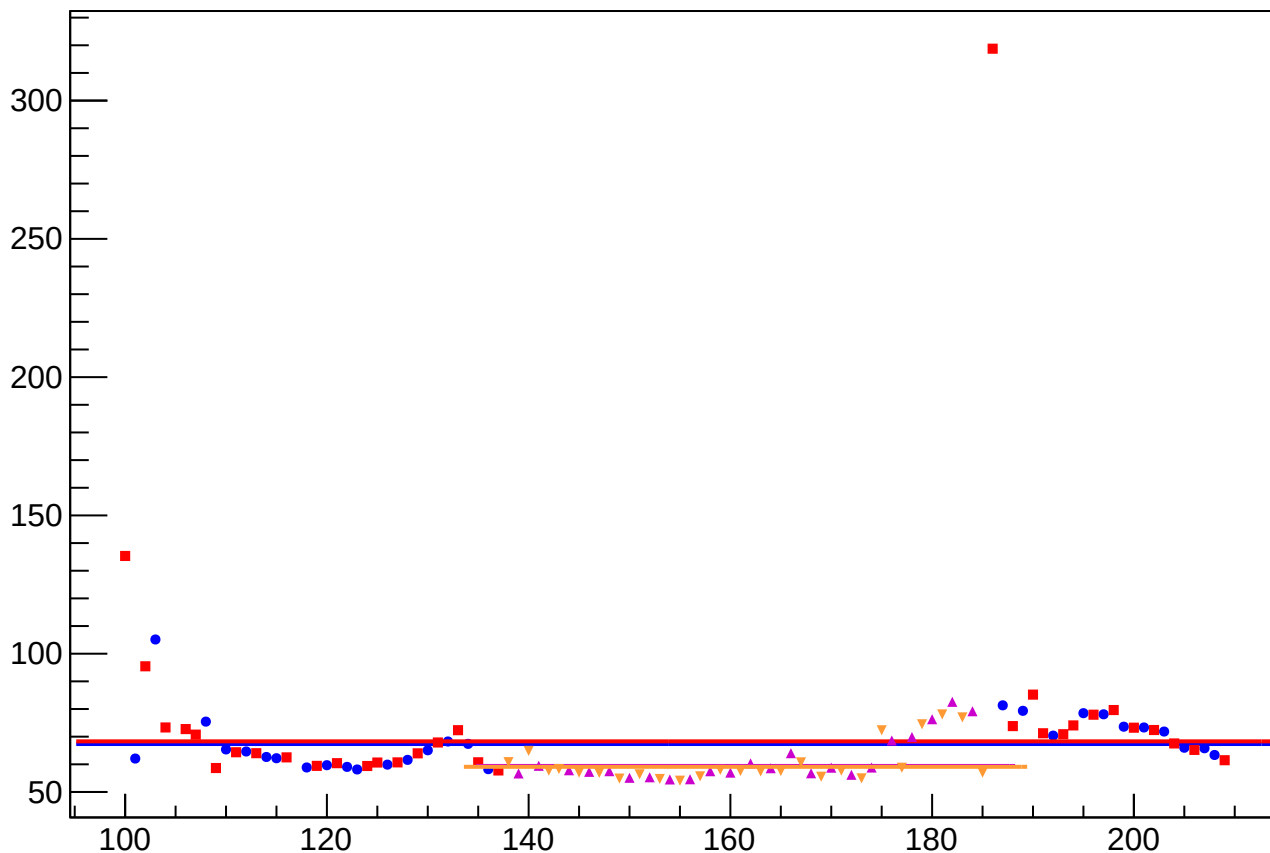
Right: -133.528 ± 12.502 χ^2/NDF : 94.7/59

In: -177.586 ± 11.181 χ^2/NDF : 56.4/50

Out: -147.965 ± 10.850 χ^2/NDF : 101.8/56

All: -162.330 ± 7.786 χ^2/NDF : 161.8/107

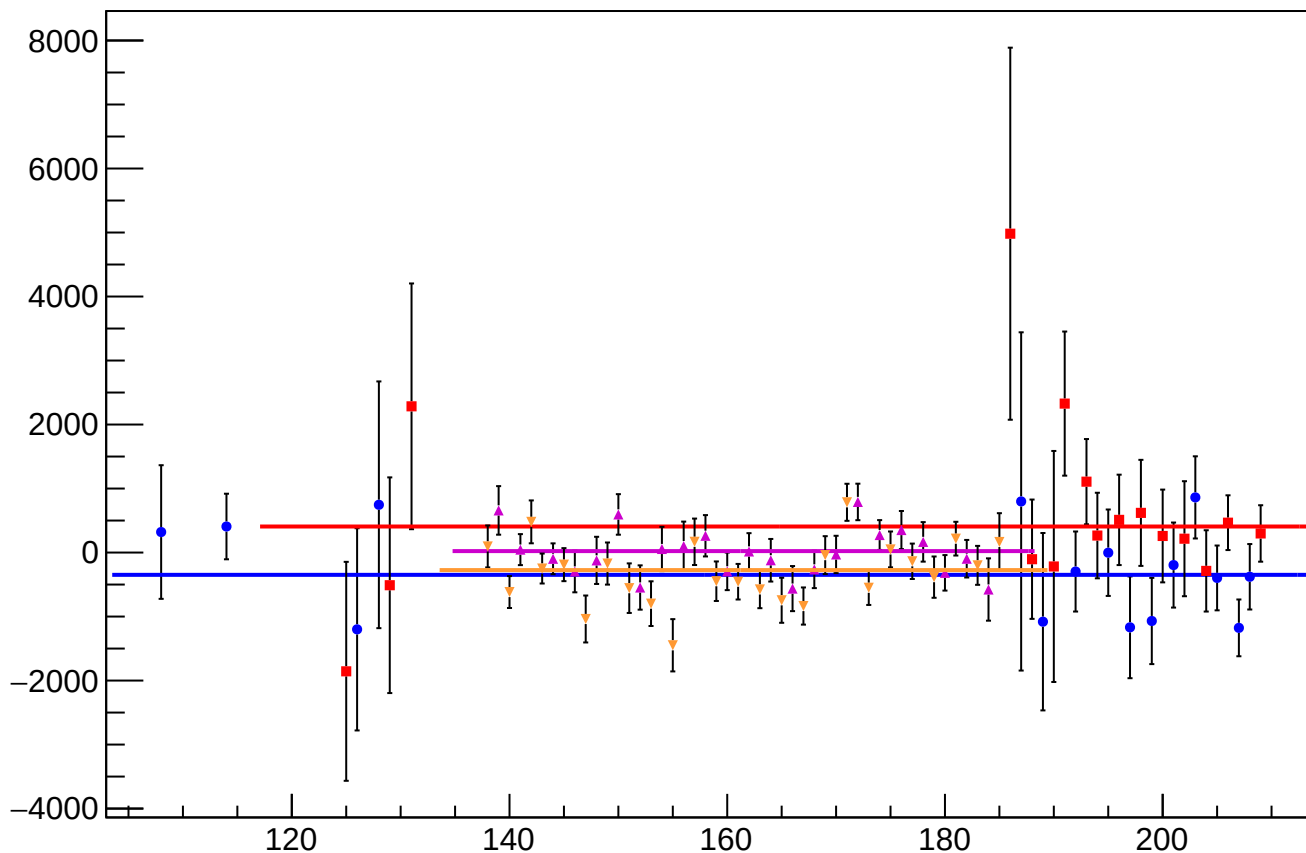
reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.337 $\pm$ 0.013 χ^2 /NDF: 407347.2/27
Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24
Right Out: 68.305 $\pm$ 0.012 χ^2 /NDF: 864129.2/31
Left In: 59.410 $\pm$ 0.010 χ^2 /NDF: 373052.7/22

Left: 59.250 $\pm$ 0.007 χ^2 /NDF: 743329.1/47
Right: 67.833 $\pm$ 0.009 χ^2 /NDF: 1274471.2/59
In: 62.502 $\pm$ 0.008 χ^2 /NDF: 1019541.2/50
Out: 62.652 $\pm$ 0.008 χ^2 /NDF: 1575151.2/56
All: 62.579 $\pm$ 0.006 χ^2 /NDF: 2594879.7/107

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -348.284 ± 176.493 $\chi^2/\text{NDF}: 13.3/14$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 406.907 ± 190.631 $\chi^2/\text{NDF}: 11.4/15$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

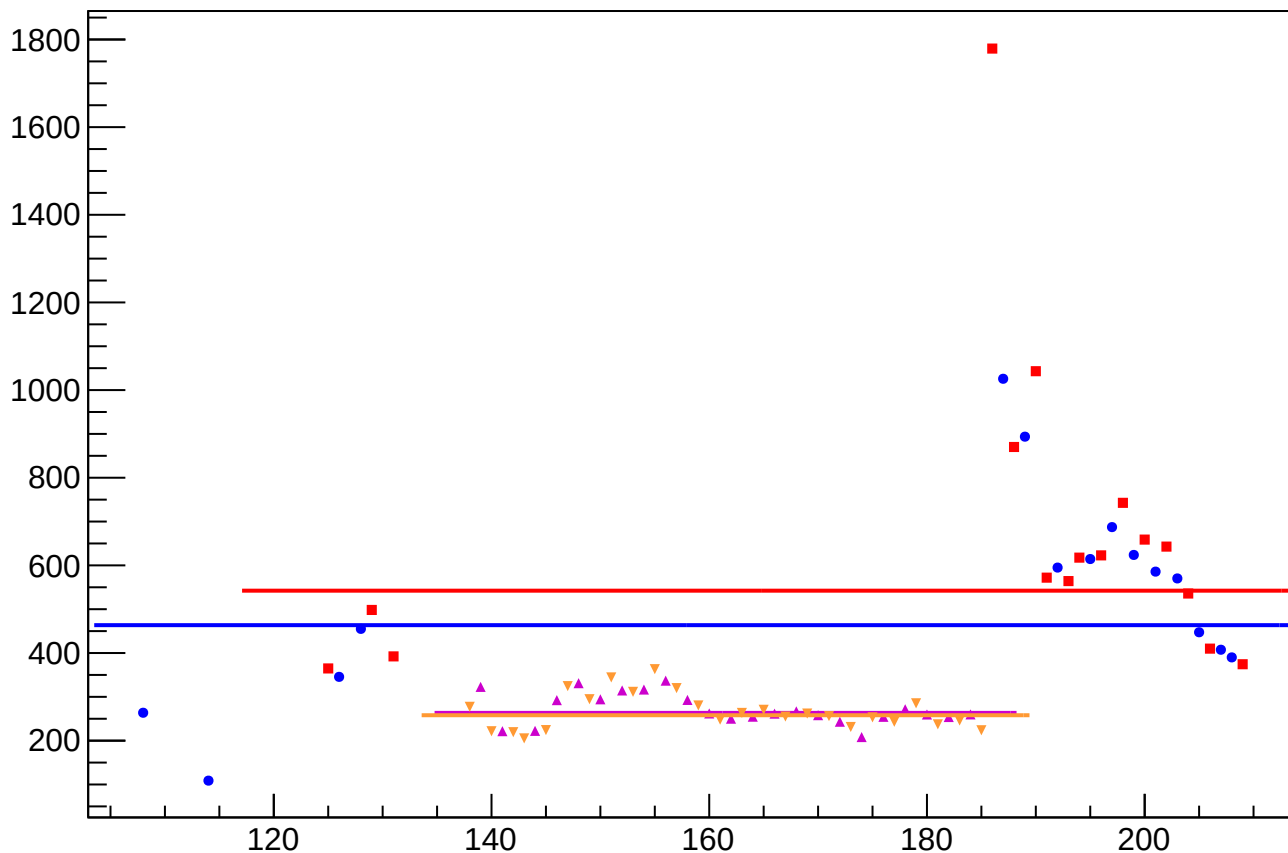
Right: 0.272 ± 129.509 $\chi^2/\text{NDF}: 33.1/30$

In: -20.050 ± 59.870 $\chi^2/\text{NDF}: 46.1/37$

Out: -211.215 ± 57.925 $\chi^2/\text{NDF}: 76.9/40$

All: -118.788 ± 41.629 $\chi^2/\text{NDF}: 128.2/78$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 463.576+/-0.125 χ^2/NDF : 1984935.2/14

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 542.273+/-0.135 χ^2/NDF : 1529007.4/15

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

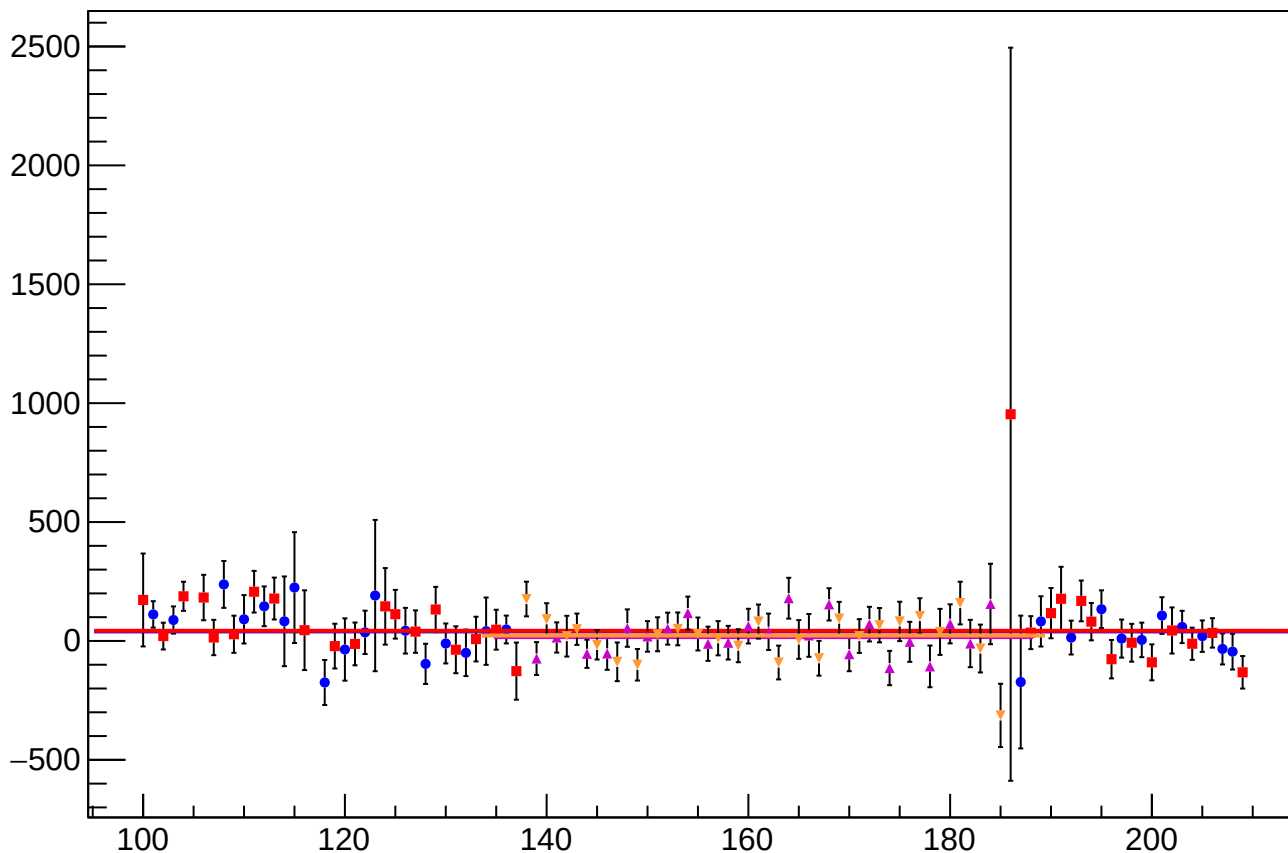
Right: 499.898+/-0.092 χ^2/NDF : 3697474.2/30

In: 286.431+/-0.042 χ^2/NDF : 4847327.8/37

Out: 284.283+/-0.041 χ^2/NDF : 6289543.4/40

All: 285.322+/-0.029 χ^2/NDF : 11138200.9/78

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 40.119+/-15.846 χ^2/NDF : 24.6/27

Left Out: 22.871+/-14.968 χ^2/NDF : 29.0/24

Right Out: 42.692+/-15.198 χ^2/NDF : 36.9/31

Left In: 16.198+/-15.531 χ^2/NDF : 23.3/22

Left: 19.658+/-10.777 χ^2/NDF : 52.4/47

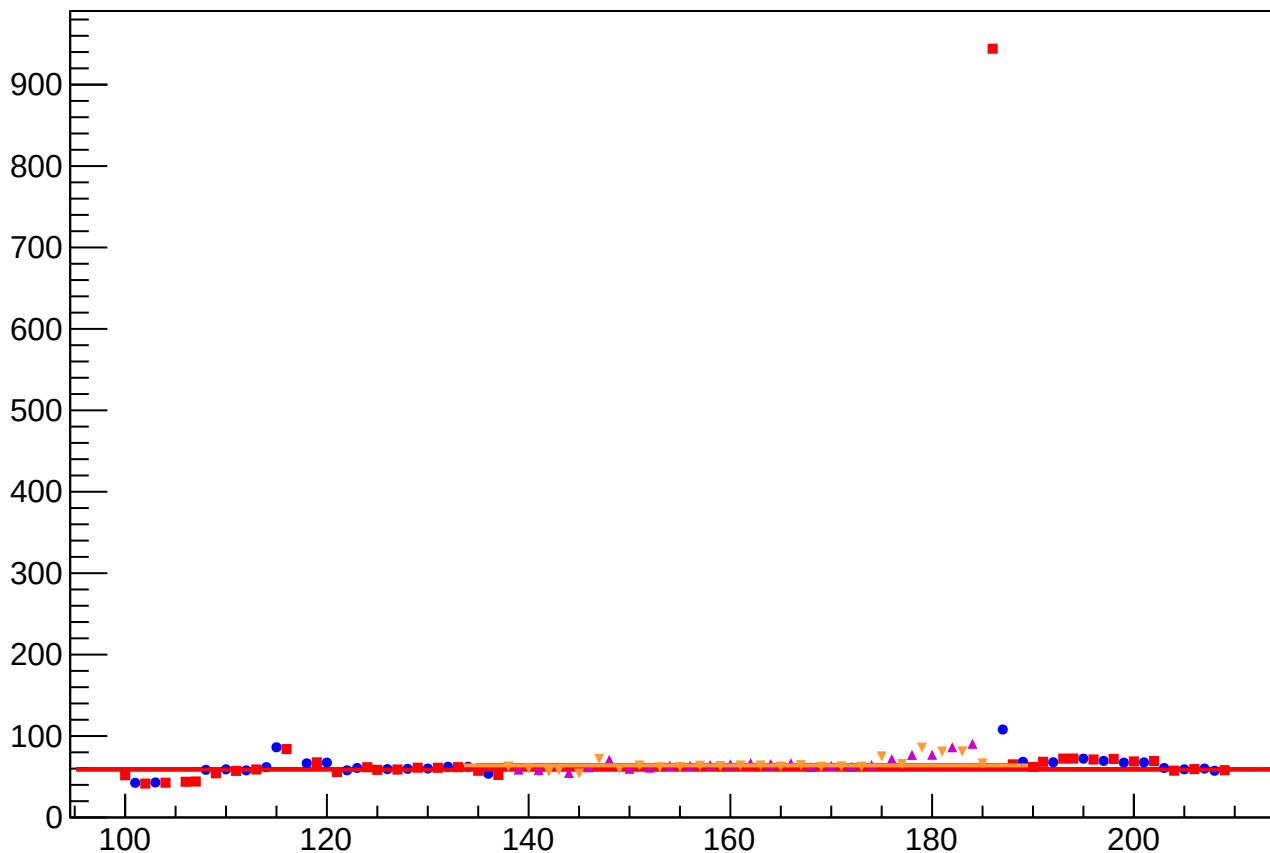
Right: 41.459+/-10.969 χ^2/NDF : 61.5/59

In: 27.919+/-11.092 χ^2/NDF : 49.1/50

Out: 32.630+/-10.664 χ^2/NDF : 66.8/56

All: 30.367+/-7.687 χ^2/NDF : 115.9/107

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.232 $\pm$ 0.011 χ^2 /NDF: 652398.5/27

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF:395410.4/24

Right Out: 58.732 $\pm$ 0.011 χ^2 /NDF: 1494237.6/31

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

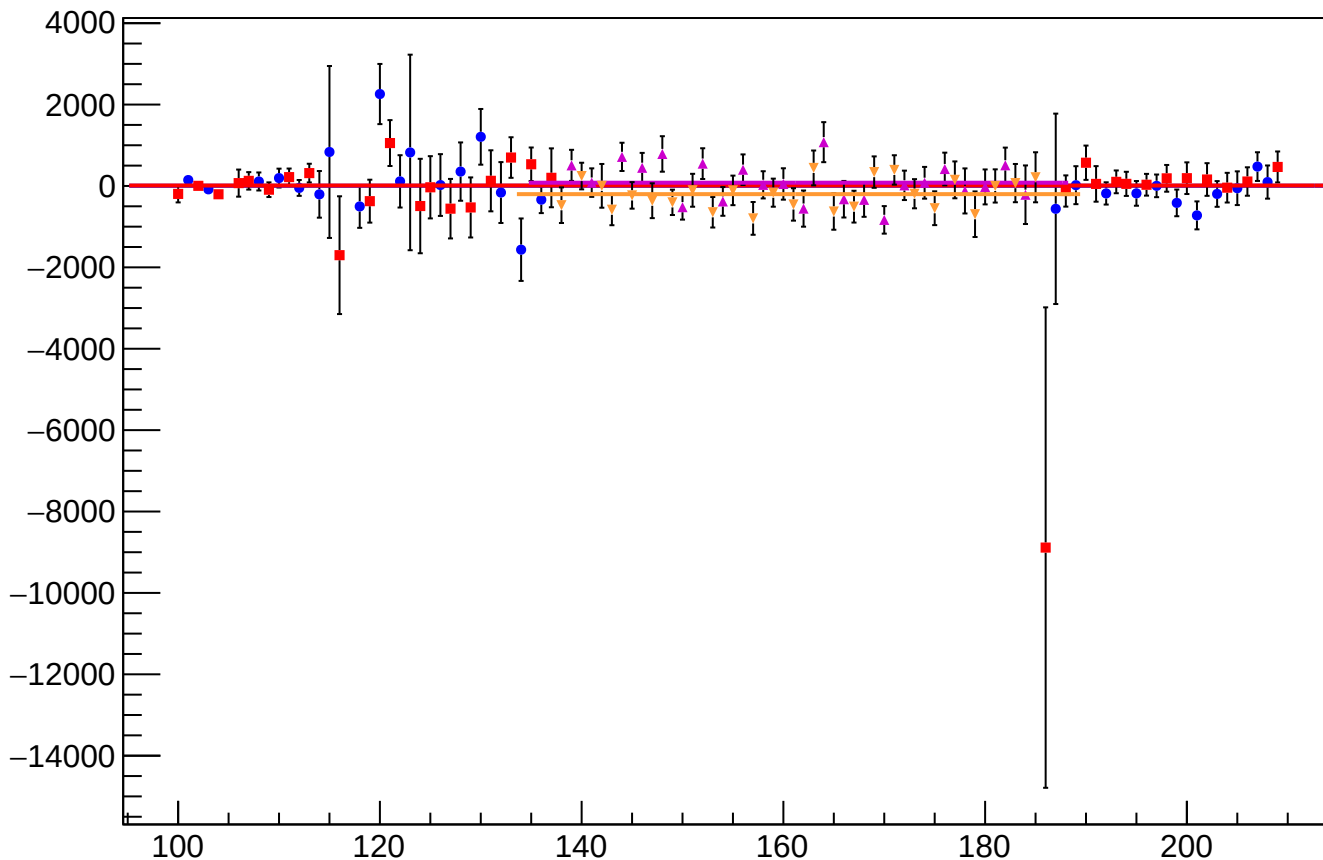
Right: 58.972 $\pm$ 0.008 χ^2 /NDF: 2147672.7/59

In: 61.924 $\pm$ 0.008 χ^2 /NDF:1136118.4/50

Out: 61.366 $\pm$ 0.008 χ^2 /NDF:2007934.3/56

All: 61.634 $\pm$ 0.005 χ^2 /NDF: 3146689.8/107

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 5.138 ± 46.339 χ^2/NDF : 33.6/27

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 10.869 ± 47.001 χ^2/NDF : 25.6/31

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

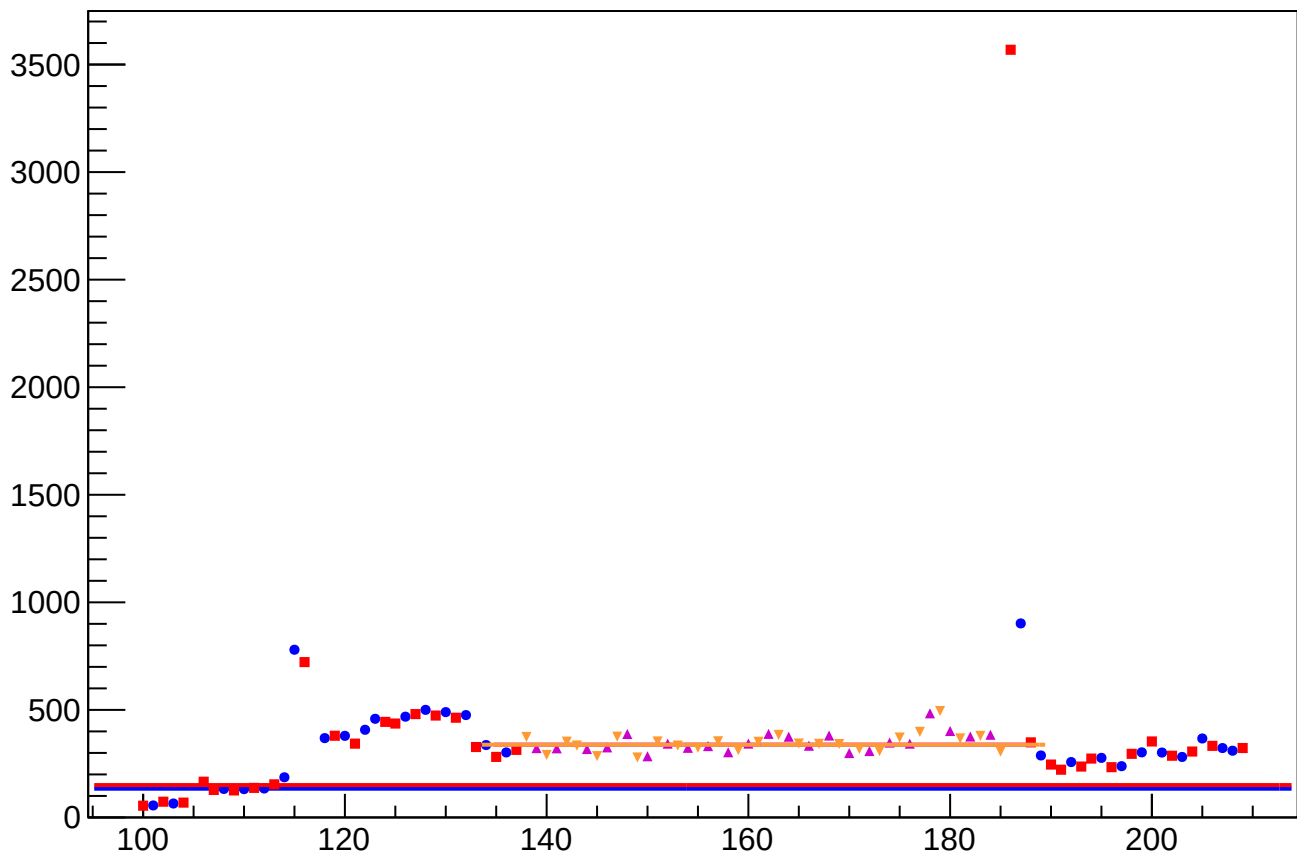
Right: 7.963 ± 32.998 χ^2/NDF : 59.2/59

In: 23.328 ± 40.317 χ^2/NDF : 67.6/50

Out: -43.976 ± 40.465 χ^2/NDF : 50.6/56

All: -10.200 ± 28.561 χ^2/NDF : 119.5/107

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 133.658+/-0.033

χ^2/NDF : 11420919.3/27

Left: 338.341+/-0.040

χ^2/NDF : 935873.7/47

Left Out: 338.130+/-0.056

χ^2/NDF : 498601.7/24

Right: 141.999+/-0.023

χ^2/NDF : 22160245.5/59

Right Out: 150.581+/-0.033

χ^2/NDF : 10607853.4/31

In: 183.456+/-0.029

χ^2/NDF : 21362267.1/50

Out: 199.111+/-0.029

χ^2/NDF : 19346929.2/56

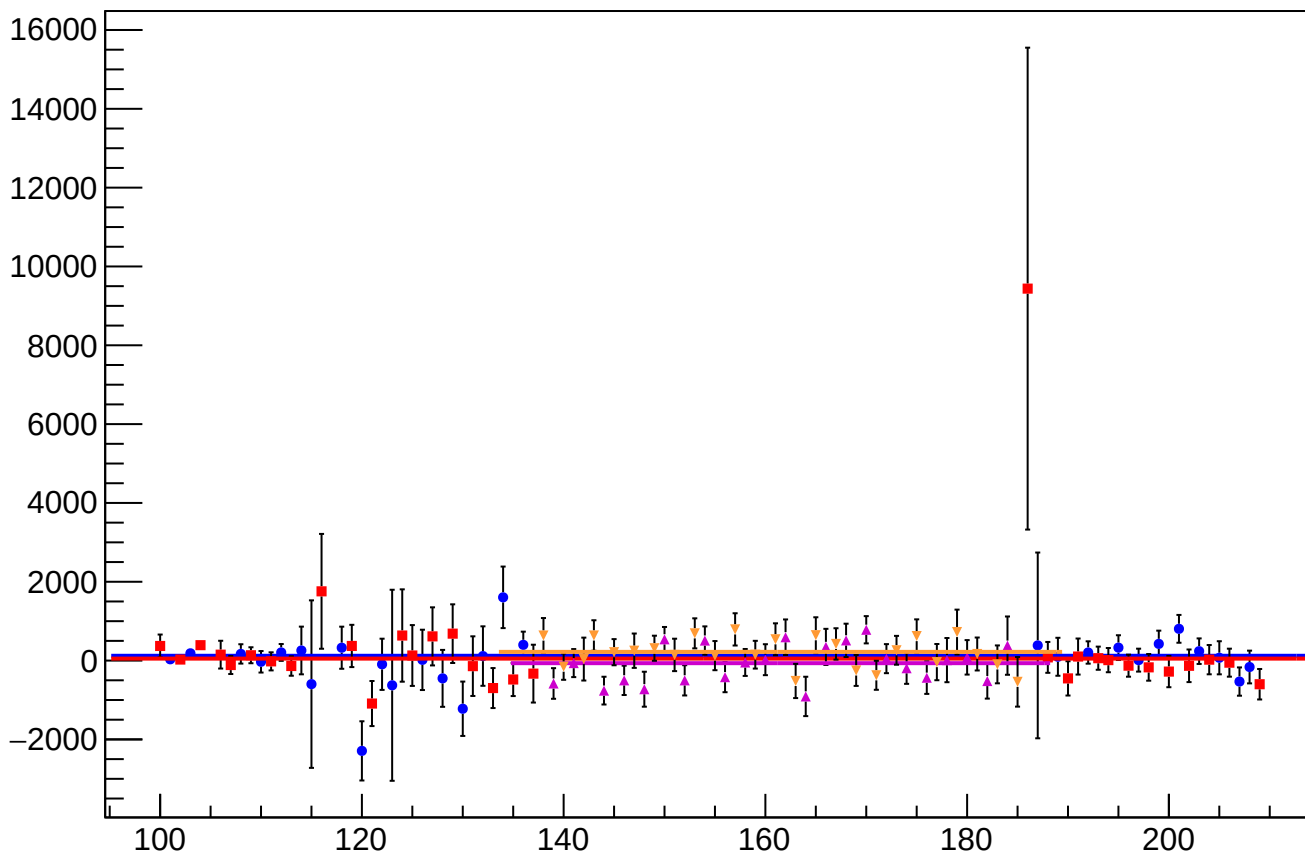
Left In: 338.564+/-0.058

χ^2/NDF : 437243.0/22

All: 191.255+/-0.020

χ^2/NDF : 40859412.2/10

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 121.767 $\pm$ 54.636 χ^2 /NDF: 30.3/27

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 50.214 $\pm$ 52.403 χ^2 /NDF: 30.4/31

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

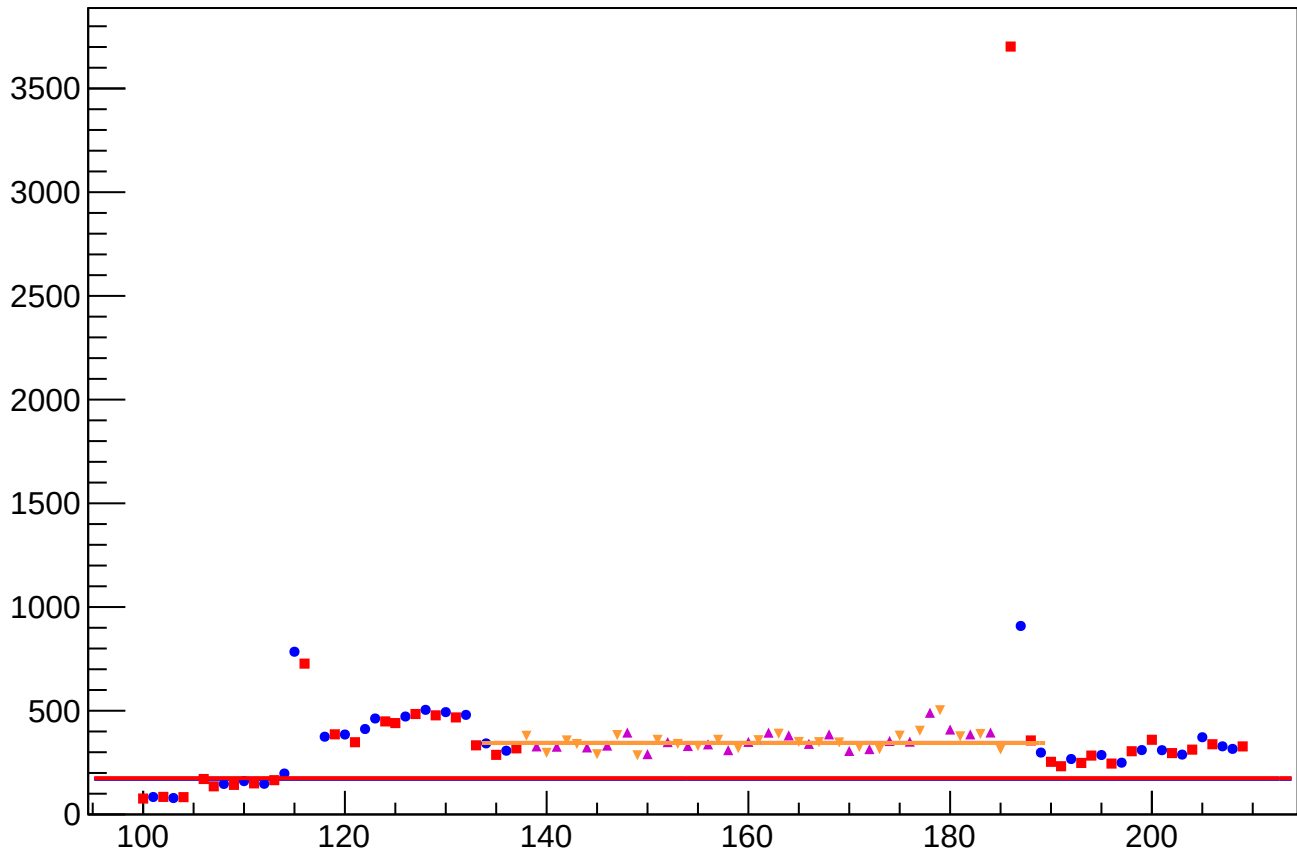
Right: 84.498 $\pm$ 37.820 χ^2 /NDF: 61.6/59

In: 65.452 $\pm$ 45.689 χ^2 /NDF:67.8/50

Out: 100.613 $\pm$ 44.001 χ^2 /NDF:53.3/56

All: 83.694 $\pm$ 31.693 χ^2 /NDF: 121.3/107

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 171.682 $\pm$ 0.039 χ^2 /NDF: 8614915.3/27

Left Out: 344.506 $\pm$ 0.057 χ^2 /NDF:488323.4/24

Right Out: 174.964 $\pm$ 0.037 χ^2 /NDF: 8888797.0/31

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

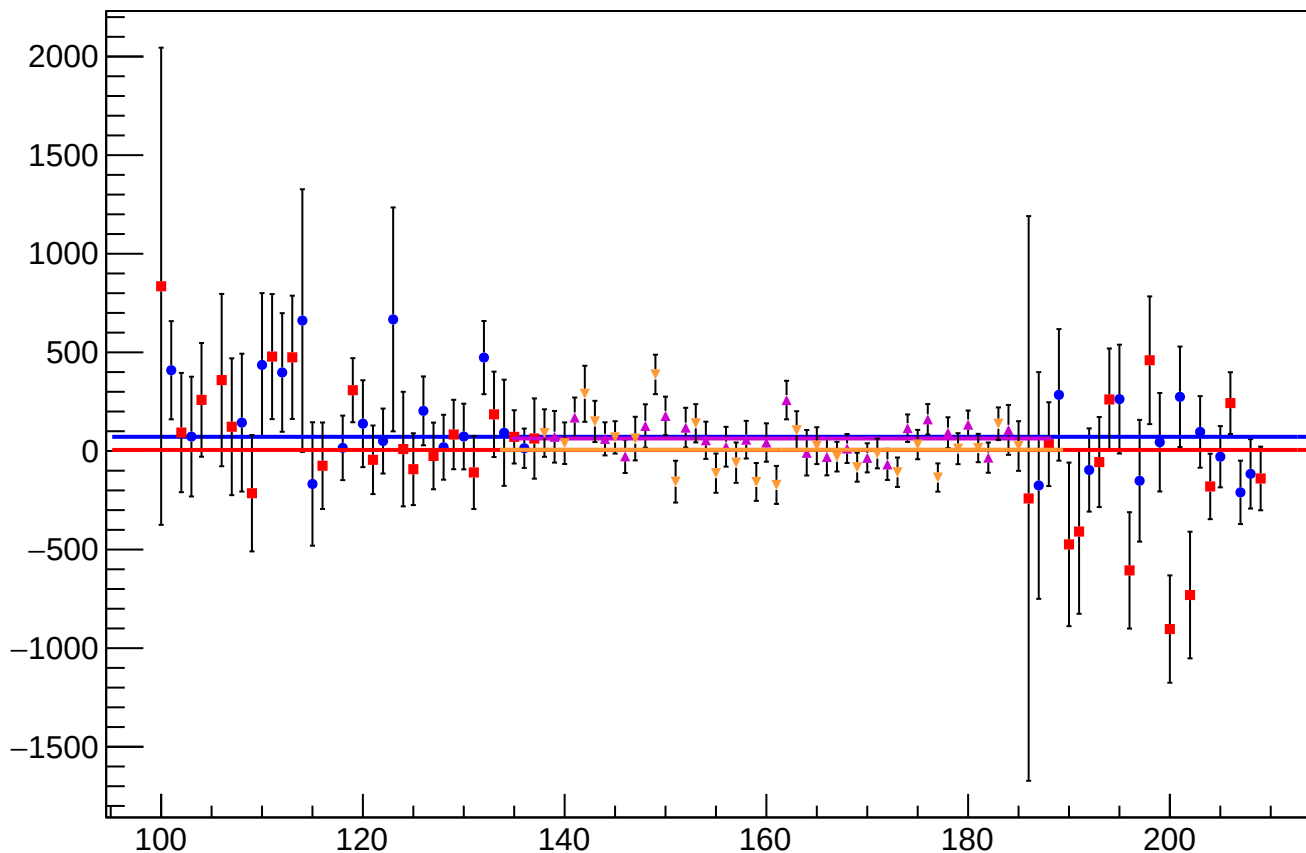
Right: 173.392 $\pm$ 0.027 χ^2 /NDF: 17507470.9/59

In: 223.811 $\pm$ 0.032 χ^2 /NDF:15096909.9/50

Out: 224.972 $\pm$ 0.031 χ^2 /NDF:15552004.5/56

All: 224.414 $\pm$ 0.022 χ^2 /NDF: 30649584.1/10

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 71.771 $\pm$ 39.362 χ^2 /NDF: 20.0/27

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 5.219 $\pm$ 39.926 χ^2 /NDF: 43.2/31

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

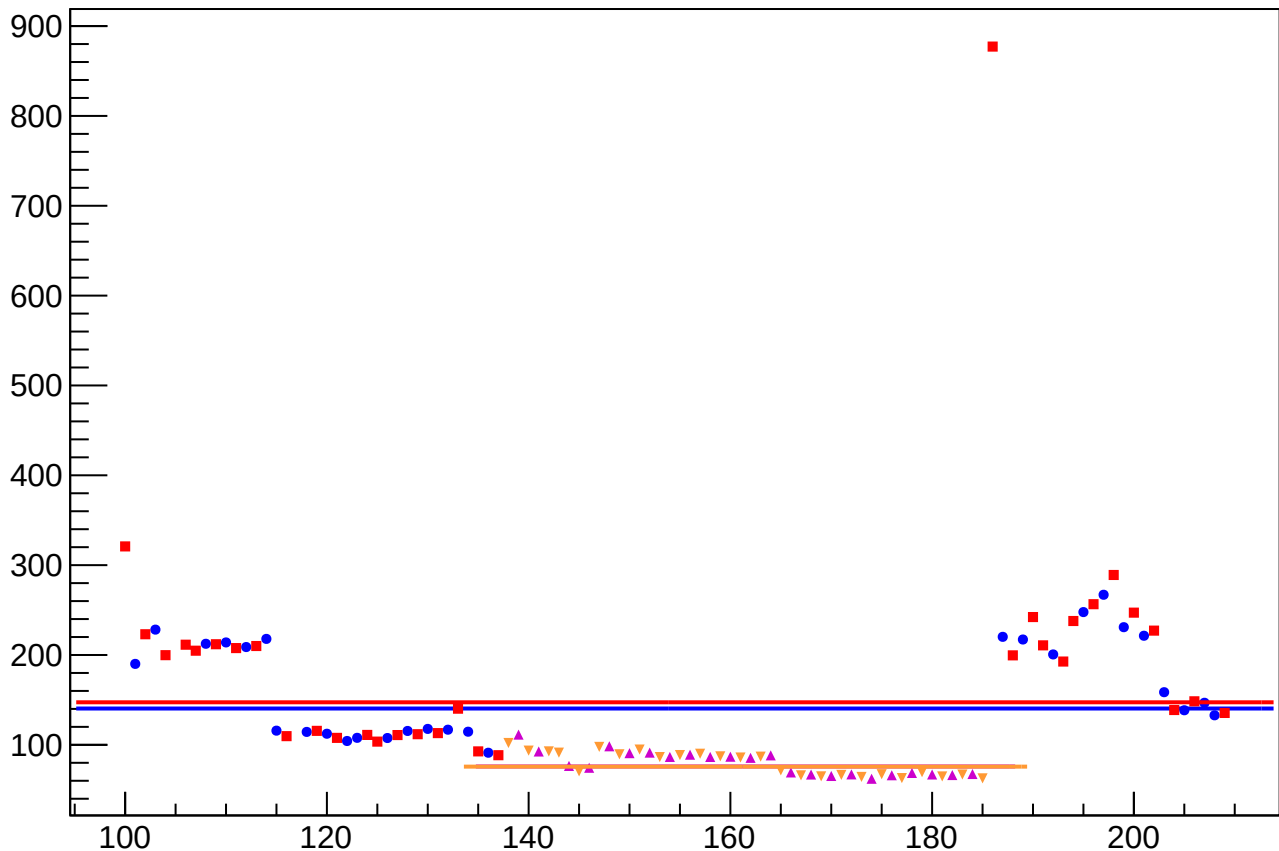
Right: 38.968 $\pm$ 28.031 χ^2 /NDF: 64.6/59

In: 64.808 $\pm$ 16.703 χ^2 /NDF:39.9/50

Out: 5.885 $\pm$ 16.341 χ^2 /NDF:89.2/56

All: 34.701 $\pm$ 11.681 χ^2 /NDF: 135.4/107

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.417 $\pm$ 0.028 χ^2 /NDF: 2871197.6/27

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 147.348 $\pm$ 0.028 χ^2 /NDF: 3885578.1/31

Left In: 75.909 $\pm$ 0.013 χ^2 /NDF:831366.4/22

Left: 75.824 $\pm$ 0.009 χ^2 /NDF: 1769272.3/47

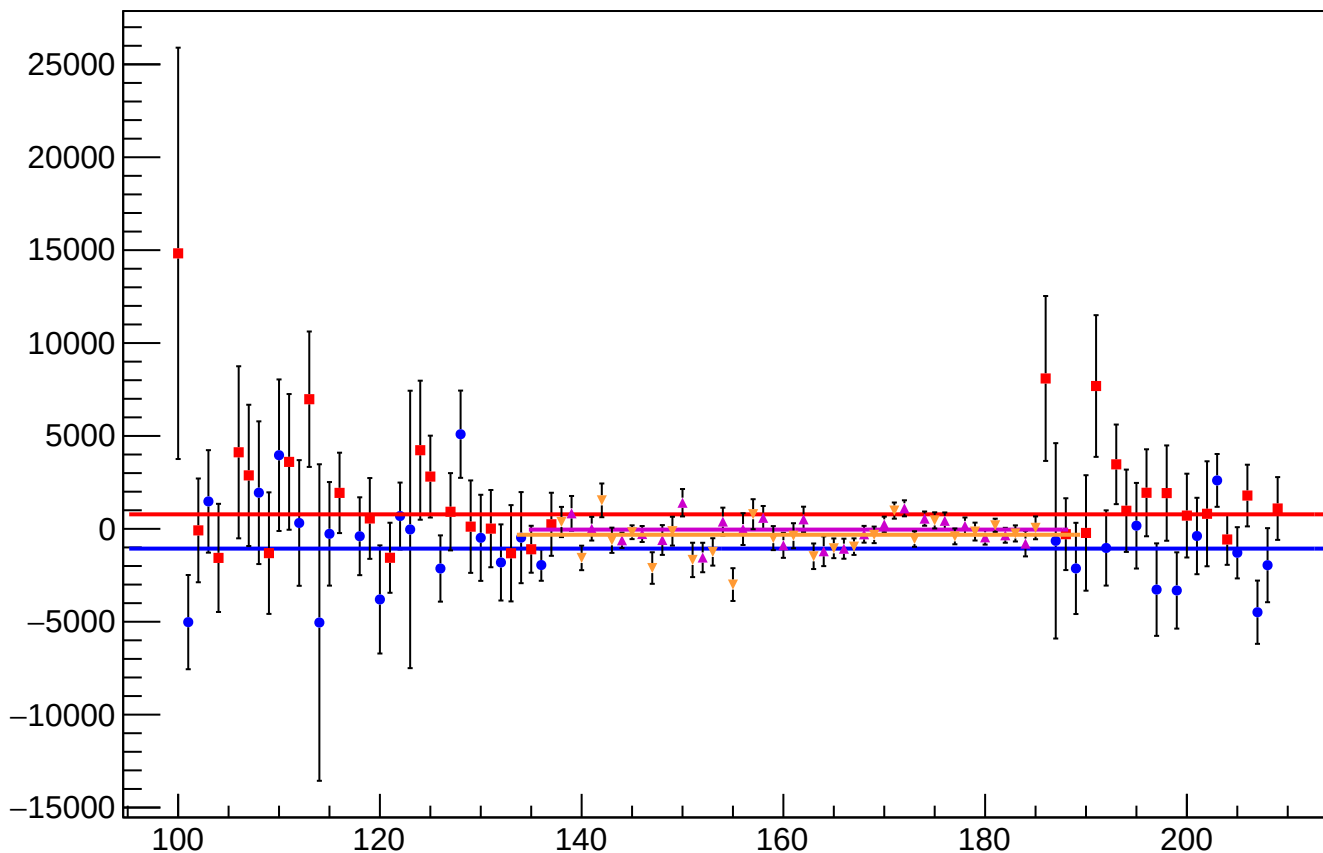
Right: 143.833 $\pm$ 0.020 χ^2 /NDF: 6787344.0/59

In: 87.525 $\pm$ 0.012 χ^2 /NDF:8106707.6/50

Out: 87.738 $\pm$ 0.012 χ^2 /NDF:10178788.0/56

All: 87.634 $\pm$ 0.008 χ^2 /NDF: 18285660.9/107

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1063.700 $\pm$ 386.893 χ^2 /NDF: 29.9/27

Left Out: -318.064 $\pm$ 108.014 χ^2 /NDF:50.0/24

Right Out: 780.665 $\pm$ 402.797 χ^2 /NDF: 23.6/31

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

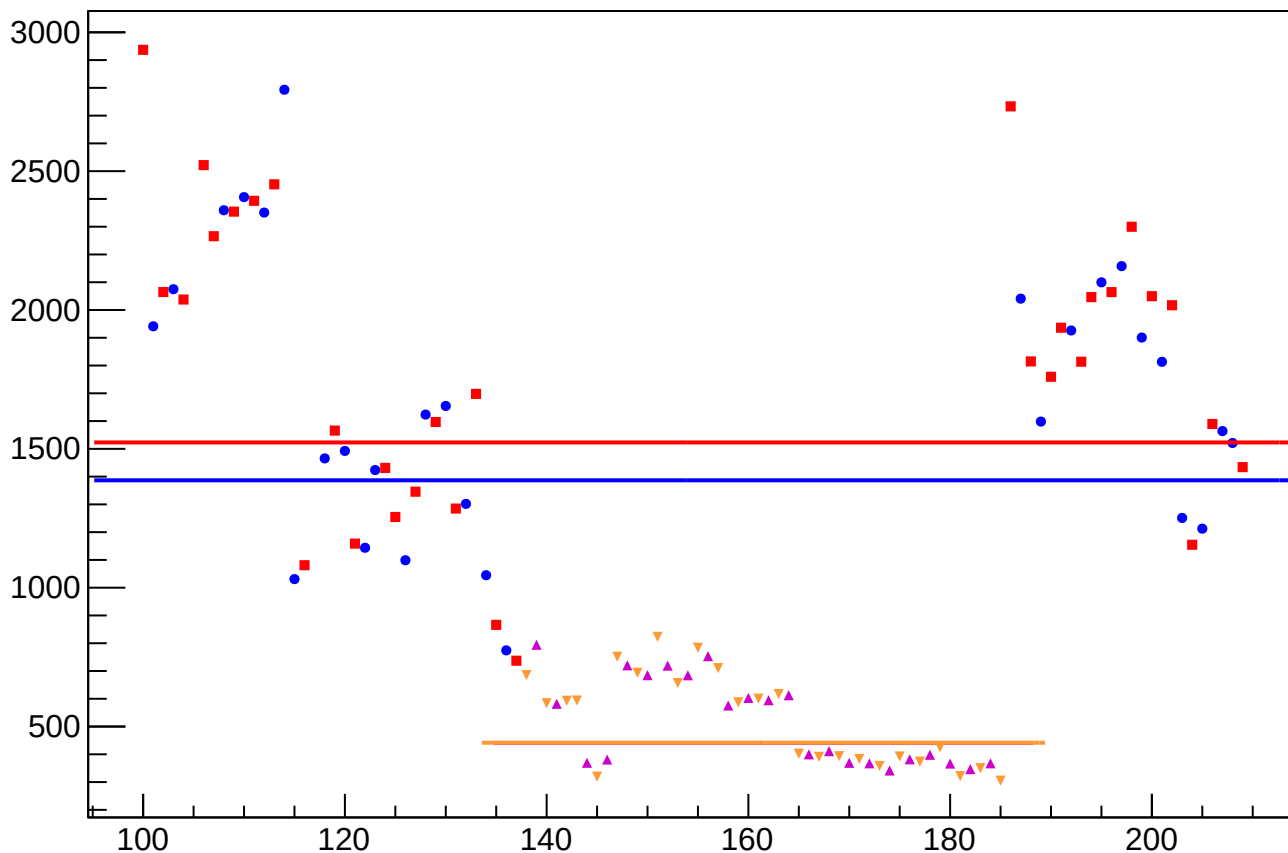
Right: -178.648 $\pm$ 279.028 χ^2 /NDF: 64.4/59

In: -117.325 $\pm$ 106.031 χ^2 /NDF:71.1/50

Out: -244.356 $\pm$ 104.328 χ^2 /NDF:80.6/56

All: -181.869 $\pm$ 74.366 χ^2 /NDF: 152.4/107

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1386.741+/-0.274 χ^2/NDF : 2813008.6/27

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1523.114+/-0.285 χ^2/NDF : 2916629.9/31

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

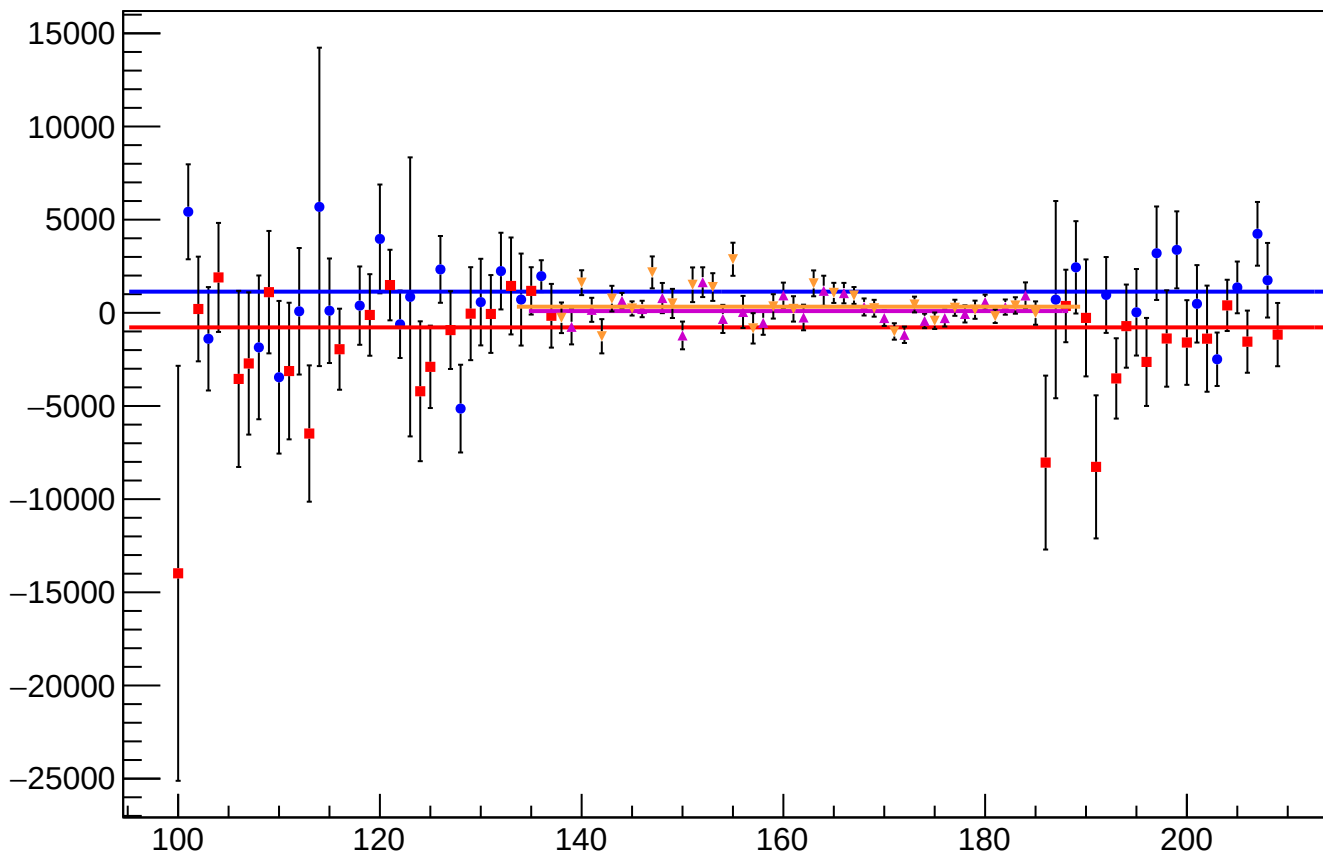
Right: 1452.182+/-0.197 χ^2/NDF : 5848880.0/59

In: 512.041+/-0.075 χ^2/NDF : 16462925.0/50

Out: 514.232+/-0.074 χ^2/NDF : 19534933.4/56

All: 513.154+/-0.053 χ^2/NDF : 35998292.6/10

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1136.668 $\pm$ 389.354 χ^2 /NDF: 29.2/27

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -780.953 $\pm$ 405.337 χ^2 /NDF: 23.2/31

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

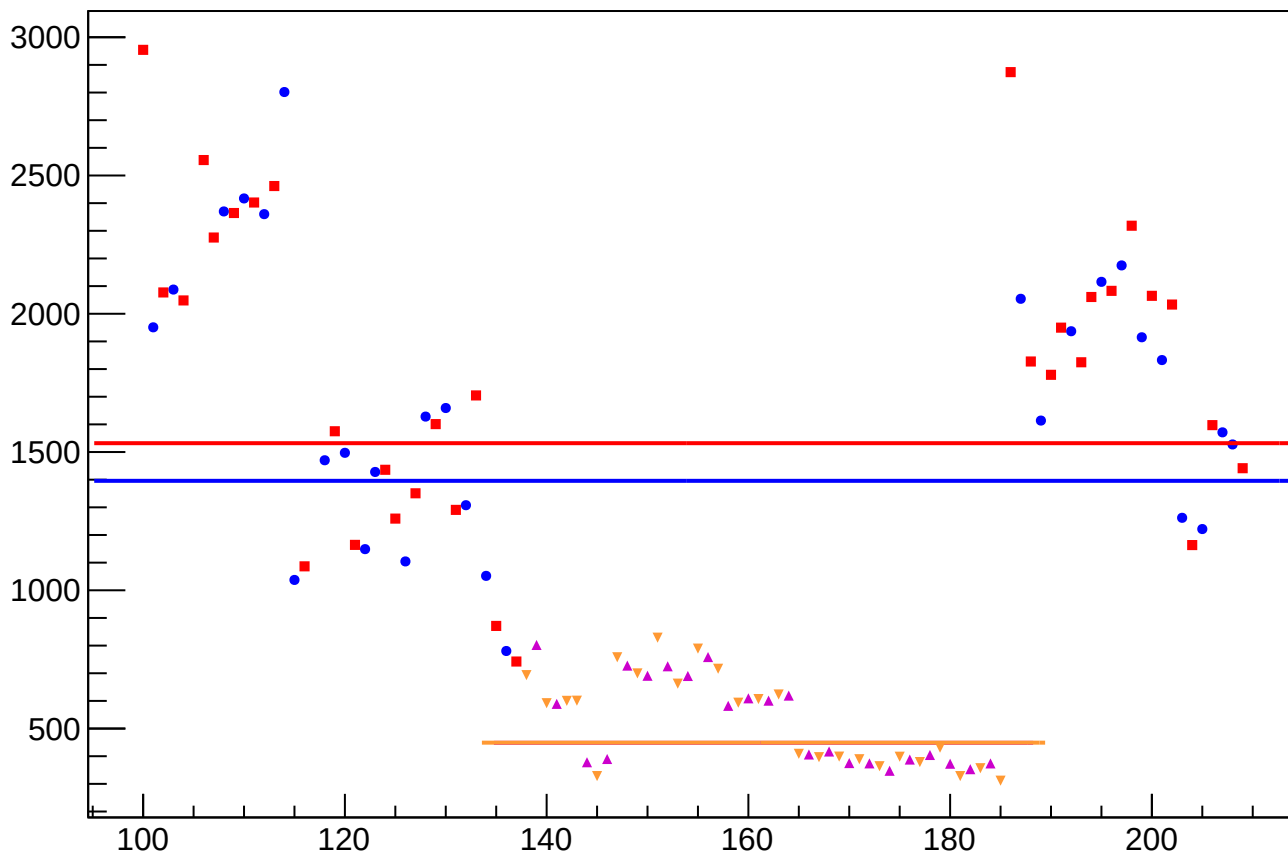
Right: 216.409 $\pm$ 280.795 χ^2 /NDF: 64.0/59

In: 172.993 $\pm$ 107.600 χ^2 /NDF: 69.2/50

Out: 252.916 $\pm$ 105.862 χ^2 /NDF: 77.9/56

All: 213.605 $\pm$ 75.463 χ^2 /NDF: 147.4/107

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1395.850+/-0.275 χ^2/NDF : 2803633.0/27

Left Out: 449.016+/-0.078 χ^2/NDF : 3090476.2/24

Right Out: 1531.984+/-0.287 χ^2/NDF : 2936516.6/31

Left In: 448.307+/-0.079 χ^2/NDF : 2537376.0/22

Left: 448.669+/-0.055 χ^2/NDF : 5627893.2/47

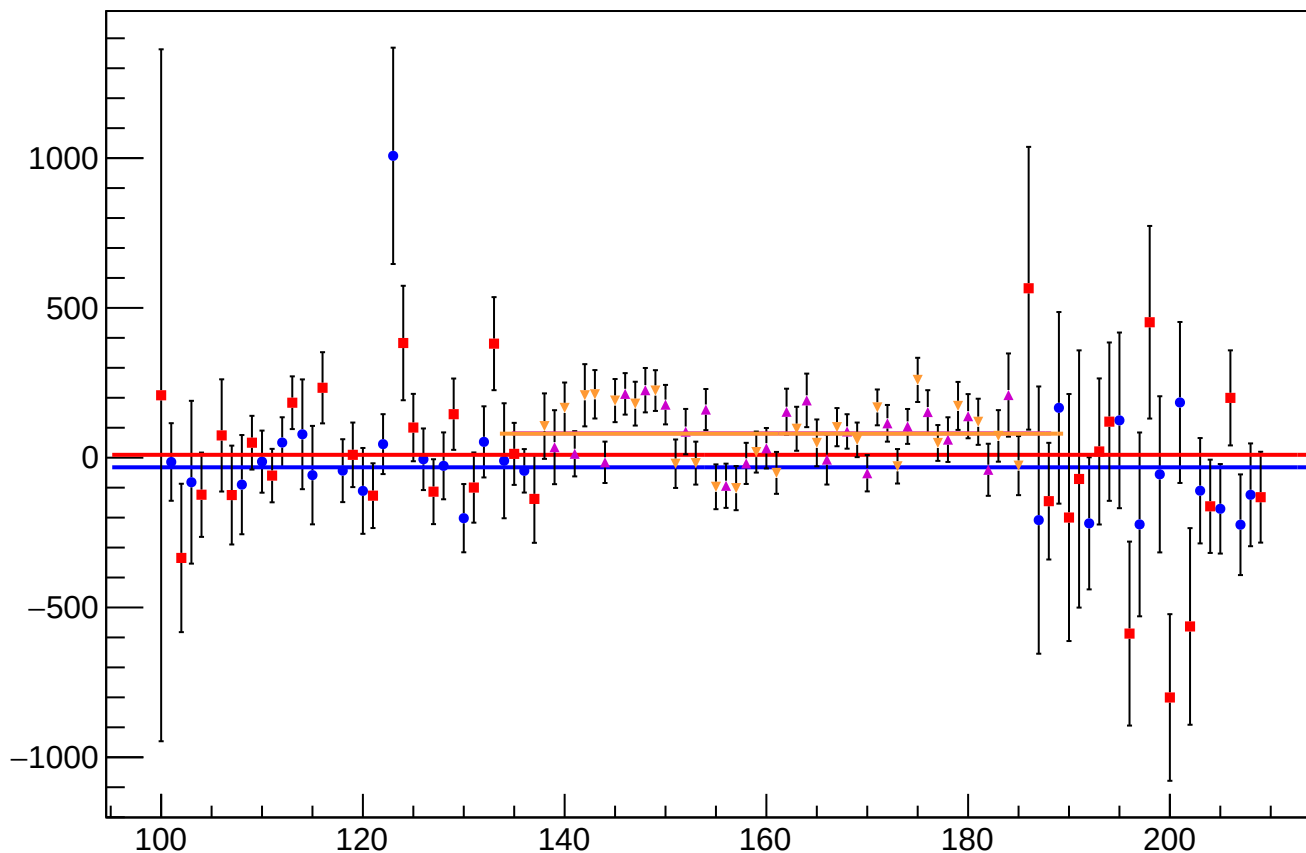
Right: 1461.181+/-0.199 χ^2/NDF : 5857482.2/59

In: 520.672+/-0.076 χ^2/NDF : 16281483.2/50

Out: 522.885+/-0.075 χ^2/NDF : 19329912.4/56

All: 521.797+/-0.053 χ^2/NDF : 35611825.5/10

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -32.069 ± 26.449 $\chi^2/\text{NDF}: 18.8/27$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 9.595 ± 25.723 $\chi^2/\text{NDF}: 51.4/31$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

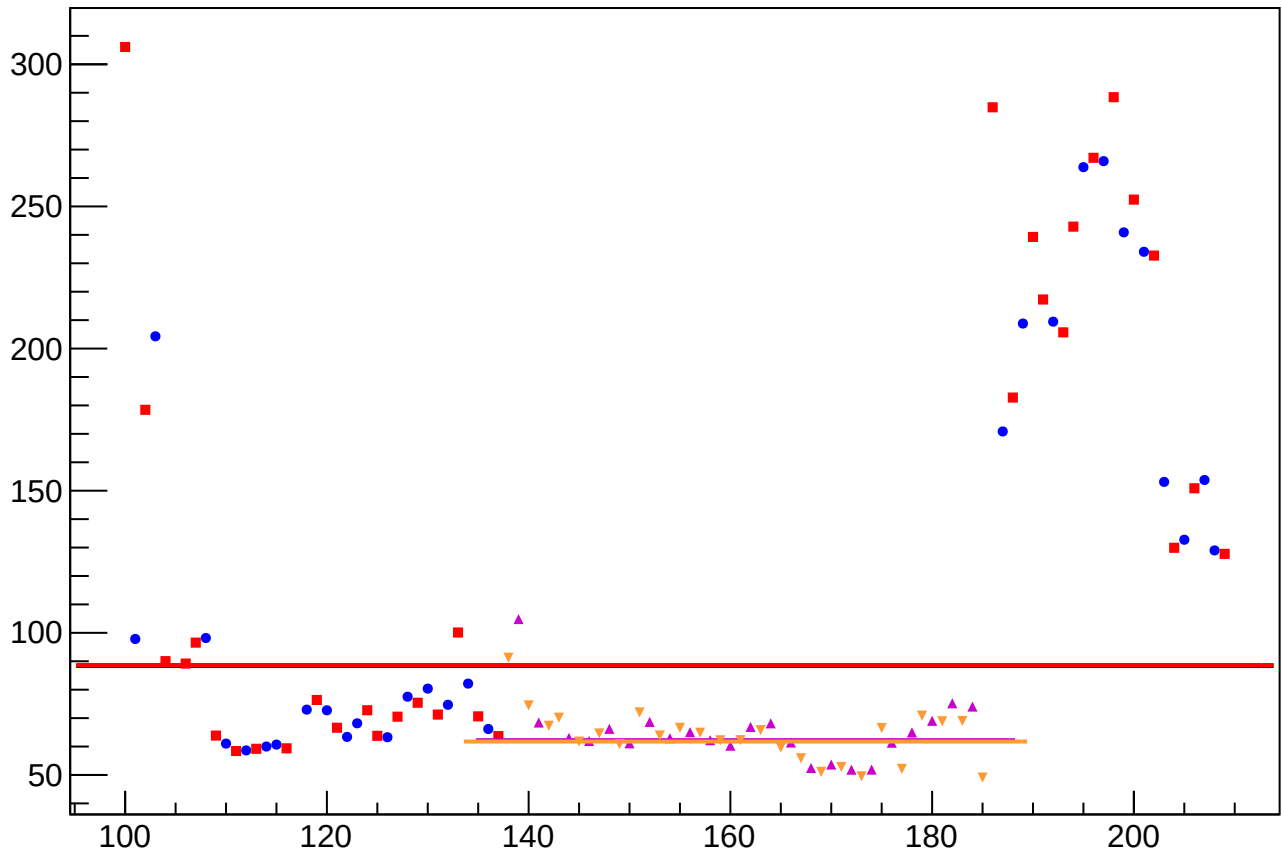
Right: -10.658 ± 18.440 $\chi^2/\text{NDF}: 71.5/59$

In: 53.308 ± 13.117 $\chi^2/\text{NDF}: 67.9/50$

Out: 62.988 ± 12.692 $\chi^2/\text{NDF}: 105.6/56$

All: 58.308 ± 9.121 $\chi^2/\text{NDF}: 173.8/107$

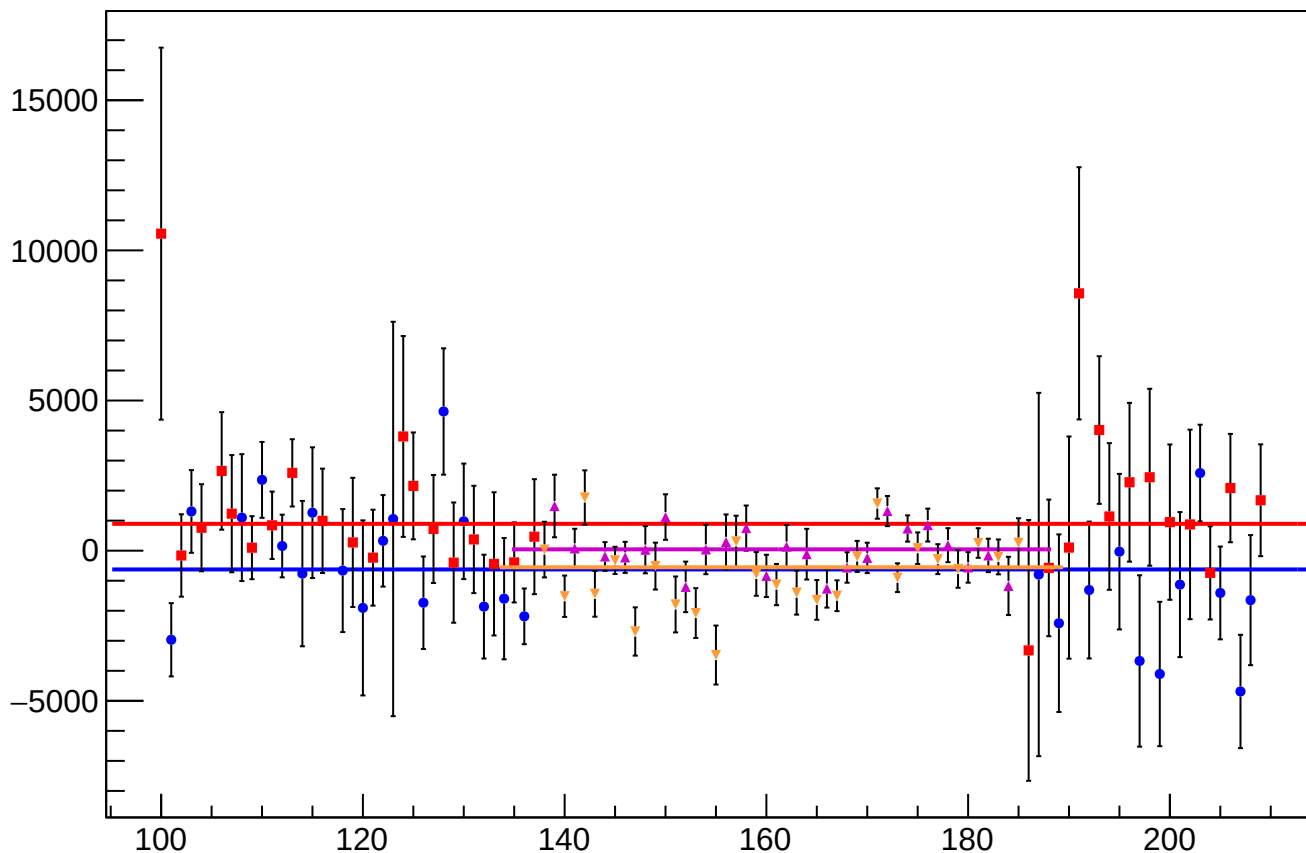
reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 88.329 $\pm$ 0.019 χ^2 /NDF: 5911418.4/27
 Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24
 Right Out: 88.695 $\pm$ 0.018 χ^2 /NDF: 7051116.0/31
 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: 88.517 $\pm$ 0.013 χ^2 /NDF: 12962731.5/59
 In: 68.664 $\pm$ 0.009 χ^2 /NDF: 7968671.4/50
 Out: 68.318 $\pm$ 0.009 χ^2 /NDF: 9355493.1/56
 All: 68.485 $\pm$ 0.006 χ^2 /NDF: 17324882.3/107

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -624.763 ± 332.093 χ^2/NDF : 37.8/27

Left Out: -552.511 ± 126.981 χ^2/NDF : 65.3/24

Right Out: 894.349 ± 324.248 χ^2/NDF : 19.0/31

Left In: 44.578 ± 129.095 χ^2/NDF : 29.6/22

Left: -258.894 ± 90.527 χ^2/NDF : 105.7/47

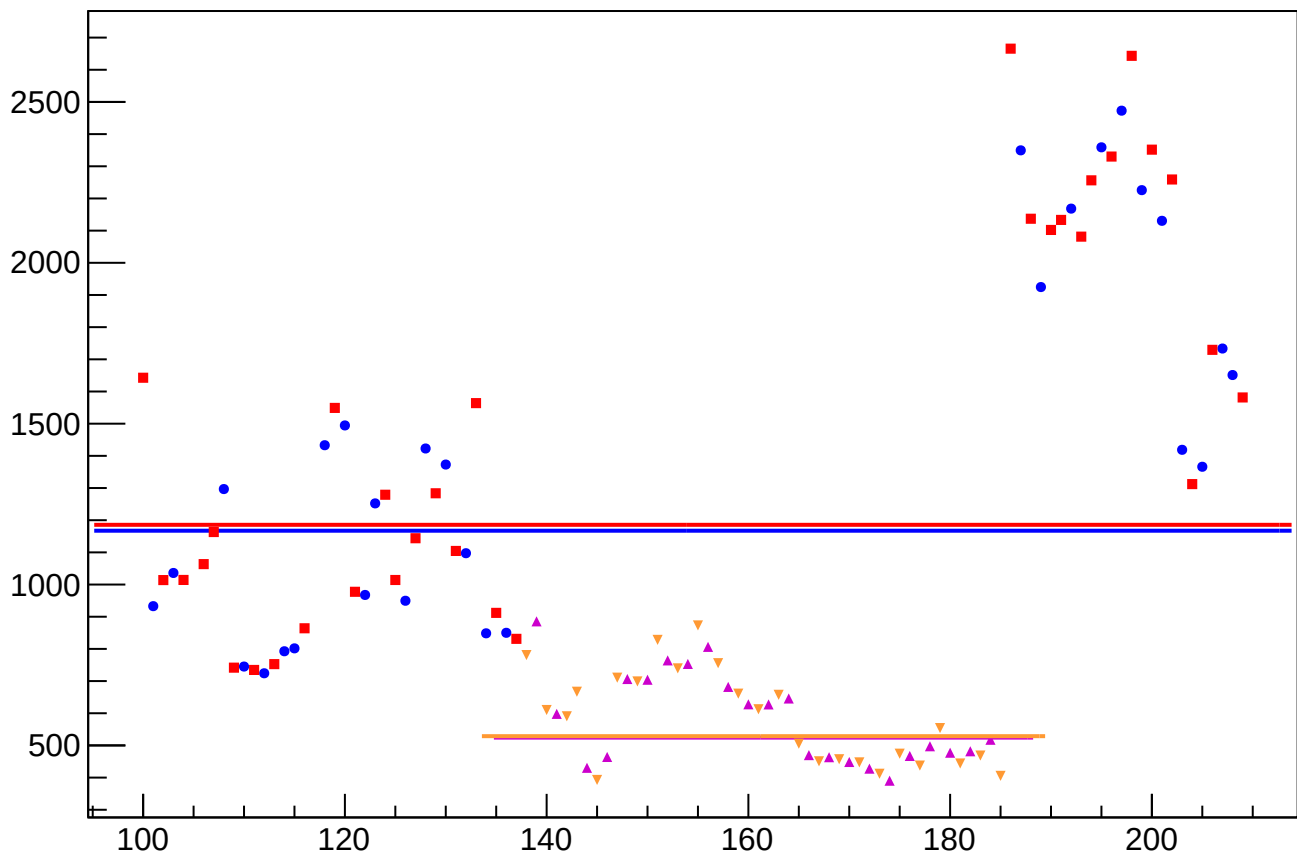
Right: 152.947 ± 232.002 χ^2/NDF : 67.5/59

In: -43.289 ± 120.323 χ^2/NDF : 70.9/50

Out: -360.121 ± 118.238 χ^2/NDF : 101.6/56

All: -204.475 ± 84.334 χ^2/NDF : 176.0/107

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1167.330+/-0.235 χ^2/NDF : 3763825.3/27

Left Out: 528.736+/-0.090 χ^2/NDF :1983697.7/24

Right Out: 1185.670+/-0.229 χ^2/NDF : 4695411.8/31

Left In: 524.268+/-0.091 χ^2/NDF :1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

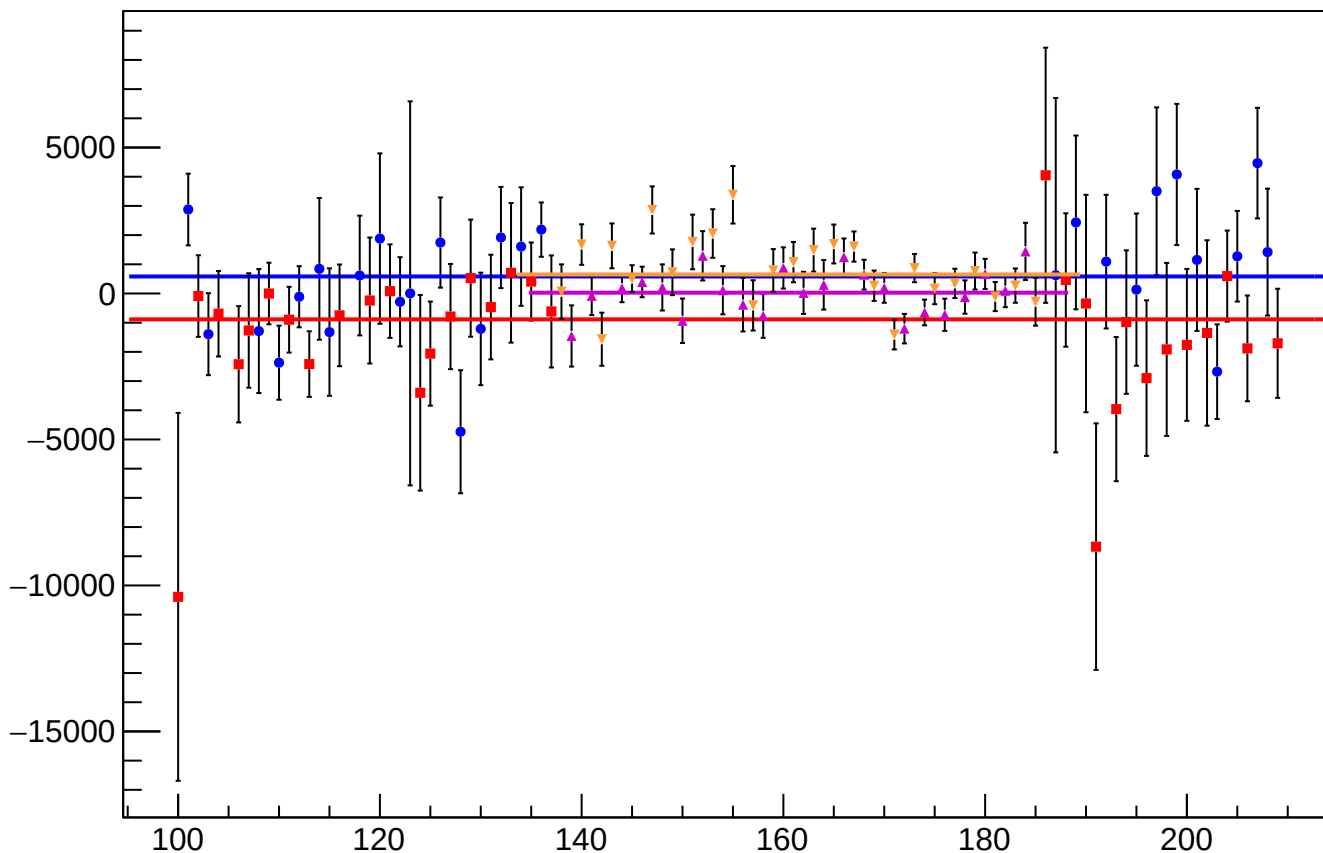
Right: 1176.719+/-0.164 χ^2/NDF : 8462360.0/59

In: 608.685+/-0.085 χ^2/NDF :11994830.5/50

Out: 616.089+/-0.084 χ^2/NDF :13797000.3/56

All: 612.452+/-0.060 χ^2/NDF : 25795682.8/10

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 582.979 ± 333.672 $\chi^2/\text{NDF}: 37.3/27$

Left Out: 651.560 ± 127.961 $\chi^2/\text{NDF}: 61.1/24$

Right Out: -885.930 ± 325.899 $\chi^2/\text{NDF}: 18.0/31$

Left In: 27.483 ± 130.127 $\chi^2/\text{NDF}: 28.5/22$

Left: 344.758 ± 91.238 $\chi^2/\text{NDF}: 101.2/47$

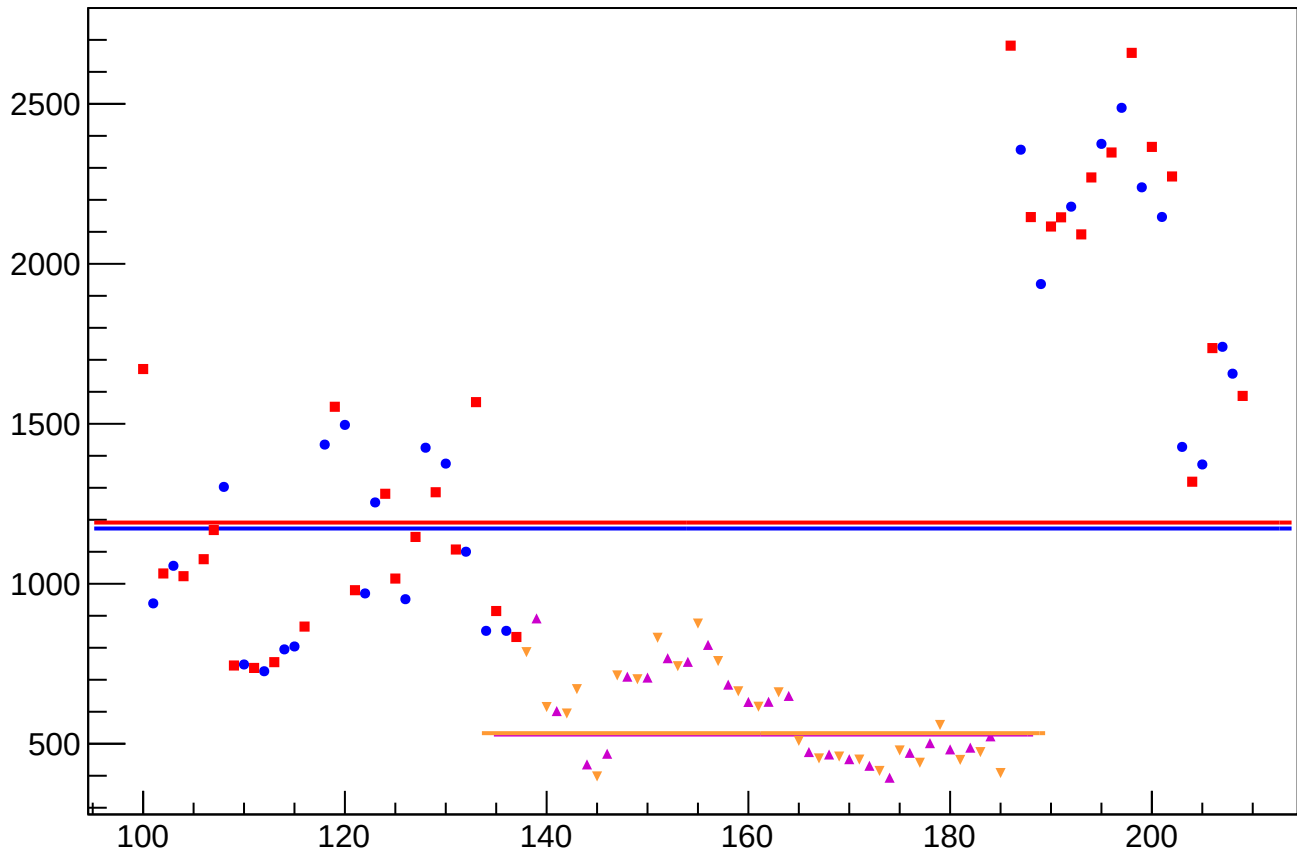
Right: -168.785 ± 233.145 $\chi^2/\text{NDF}: 65.2/59$

In: 100.814 ± 121.234 $\chi^2/\text{NDF}: 68.1/50$

Out: 446.192 ± 119.109 $\chi^2/\text{NDF}: 98.4/56$

All: 276.556 ± 84.964 $\chi^2/\text{NDF}: 170.7/107$

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1172.719 $\pm$ 0.236 χ^2 /NDF: 3770933.3/27

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF: 1951536.4/24

Right Out: 1191.340 $\pm$ 0.230 χ^2 /NDF: 4704540.1/31

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

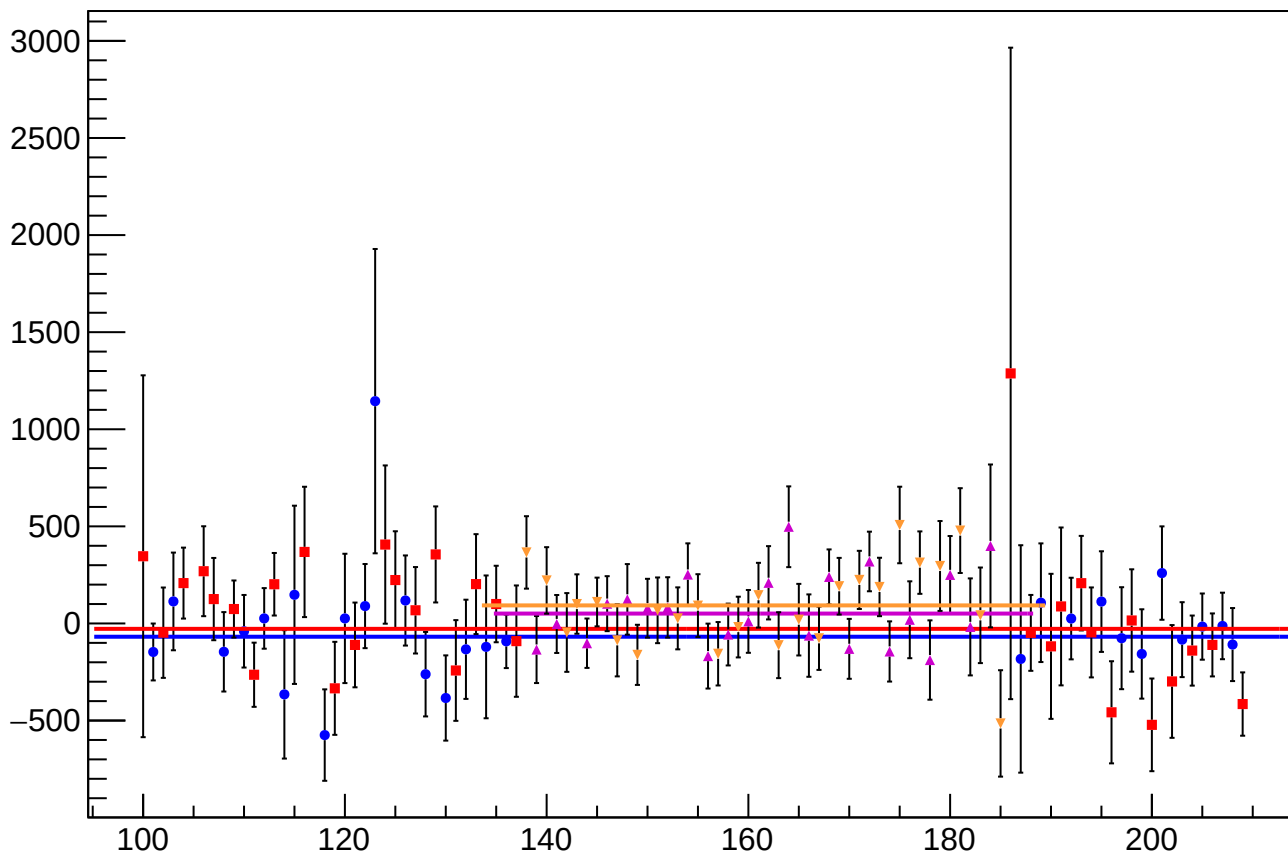
Right: 1182.249 $\pm$ 0.165 χ^2 /NDF: 8478661.3/59

In: 613.712 $\pm$ 0.086 χ^2 /NDF: 11926531.7/50

Out: 620.989 $\pm$ 0.084 χ^2 /NDF: 13726016.8/56

All: 617.415 $\pm$ 0.060 χ^2 /NDF: 25656215.4/10

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -68.374 ± 41.480 $\chi^2/\text{NDF}: 16.9/27$

Left Out: 92.994 ± 34.054 $\chi^2/\text{NDF}: 29.4/24$

Right Out: -27.782 ± 39.983 $\chi^2/\text{NDF}: 34.3/31$

Left In: 50.896 ± 35.280 $\chi^2/\text{NDF}: 23.5/22$

Left: 72.689 ± 24.502 $\chi^2/\text{NDF}: 53.6/47$

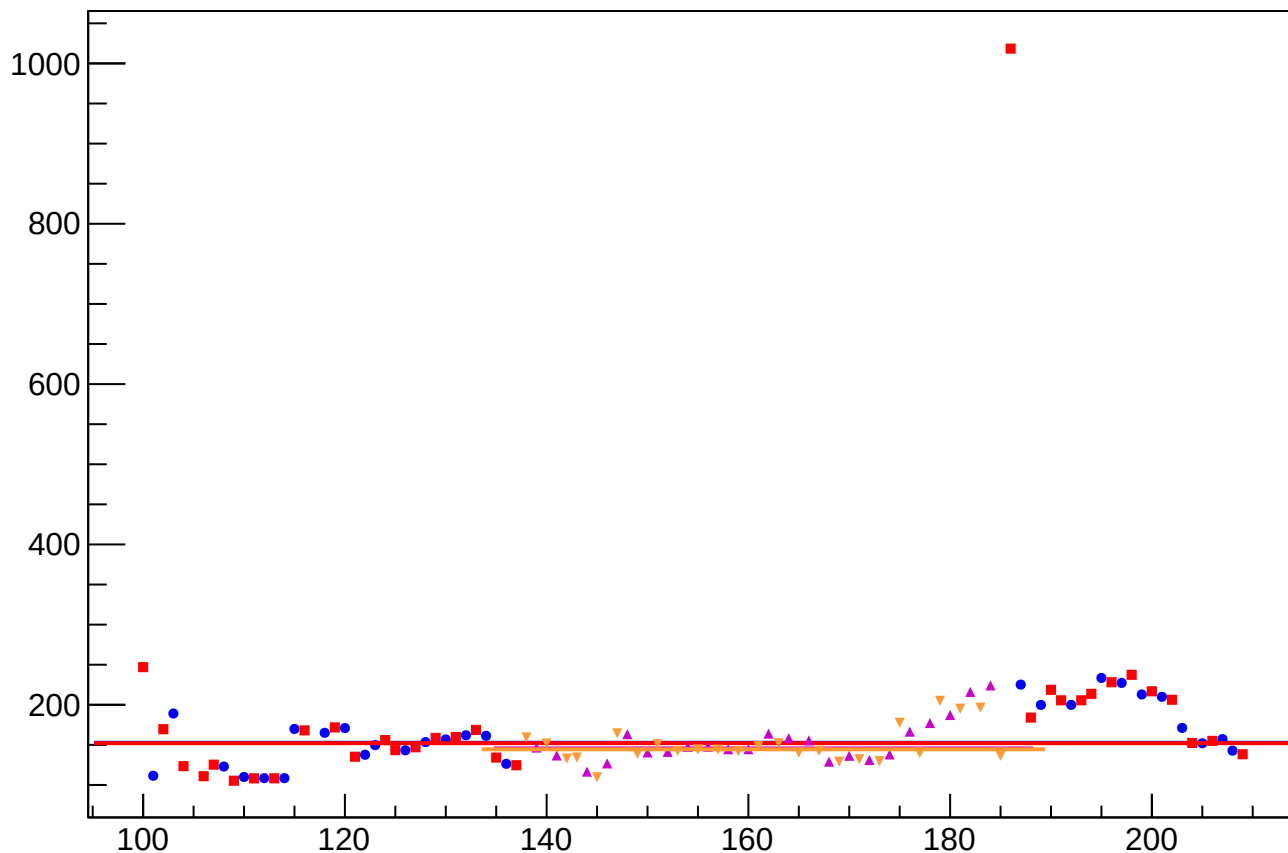
Right: -47.332 ± 28.787 $\chi^2/\text{NDF}: 51.7/59$

In: 0.832 ± 26.874 $\chi^2/\text{NDF}: 45.2/50$

Out: 42.216 ± 25.925 $\chi^2/\text{NDF}: 69.0/56$

All: 22.268 ± 18.658 $\chi^2/\text{NDF}: 115.4/107$

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 152.593 $\pm$ 0.029 χ^2 /NDF: 1458901.0/27

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 152.169 $\pm$ 0.028 χ^2 /NDF: 2279338.4/31

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

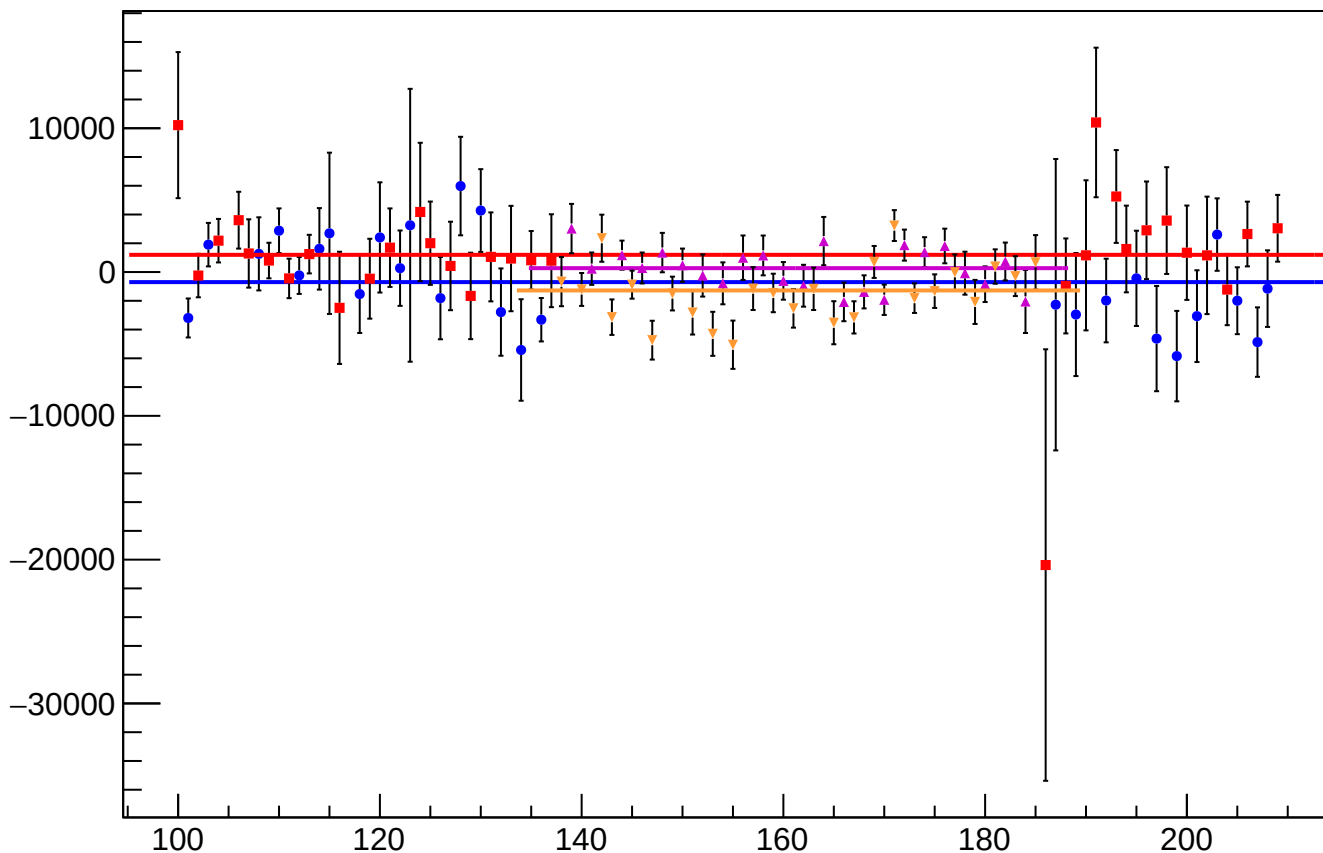
Right: 152.373 $\pm$ 0.020 χ^2 /NDF: 3738347.5/59

In: 148.497 $\pm$ 0.019 χ^2 /NDF: 2136032.4/50

Out: 147.710 $\pm$ 0.018 χ^2 /NDF: 2992753.4/56

All: 148.090 $\pm$ 0.013 χ^2 /NDF: 5129674.9/107

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -700.354+/-454.903 χ^2/NDF : 36.6/27

Left Out: -1279.328+/-259.299 χ^2/NDF : 55.9/24

Right Out: 1196.458+/-424.630 χ^2/NDF : 20.2/31

Left In: 269.952+/-266.245 χ^2/NDF : 24.3/22

Left: -525.161+/-185.759 χ^2/NDF : 97.6/47

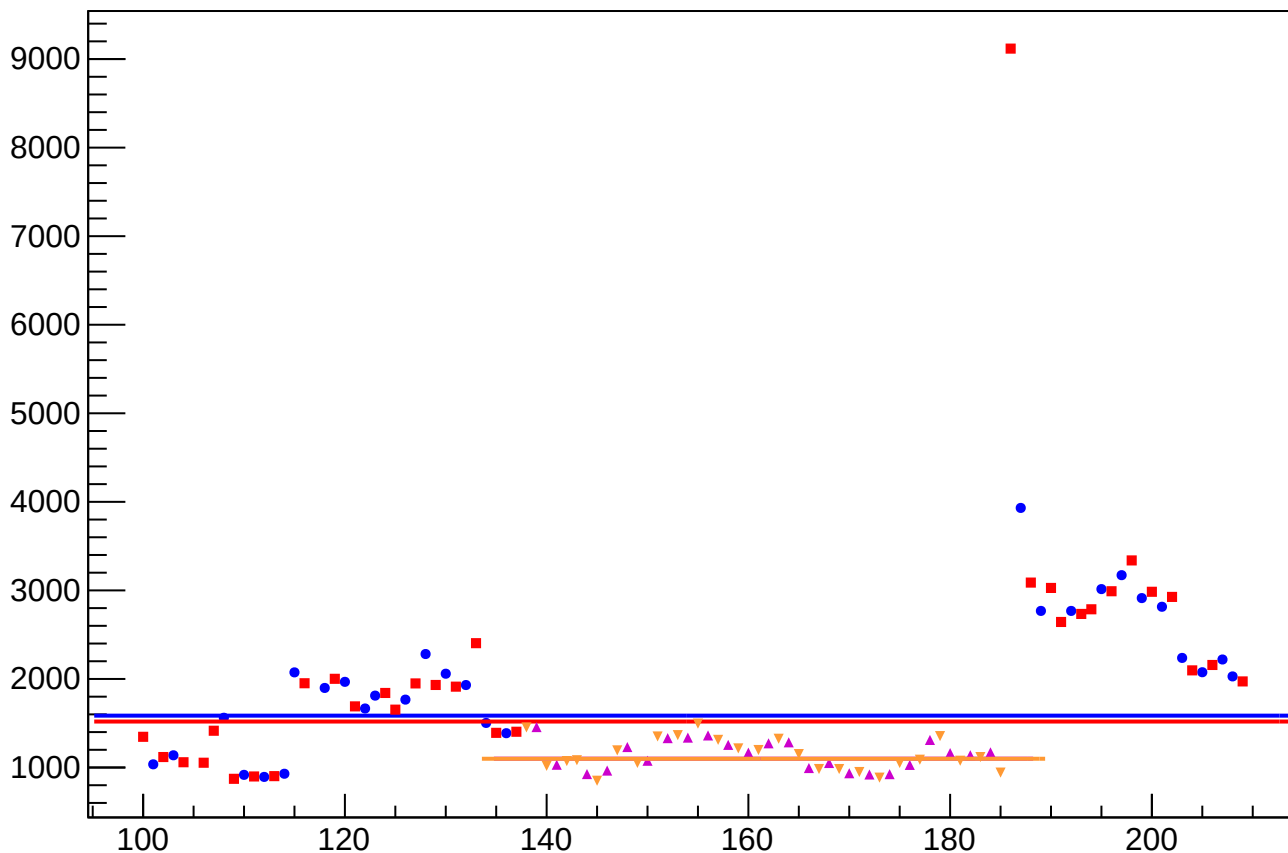
Right: 313.263+/-310.410 χ^2/NDF : 66.1/59

In: 22.379+/-229.782 χ^2/NDF : 64.3/50

Out: -606.881+/-221.301 χ^2/NDF : 100.9/56

All: -304.078+/-159.397 χ^2/NDF : 169.0/107

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1585.733+/-0.322 χ^2/NDF : 4241539.0/27

Left Out: 1098.909+/-0.183 χ^2/NDF : 824328.7/24

Right Out: 1519.172+/-0.300 χ^2/NDF : 5863592.2/31

Left In: 1099.585+/-0.188 χ^2/NDF : 679896.1/22

Left: 1099.238+/-0.131 χ^2/NDF : 1504231.4/47

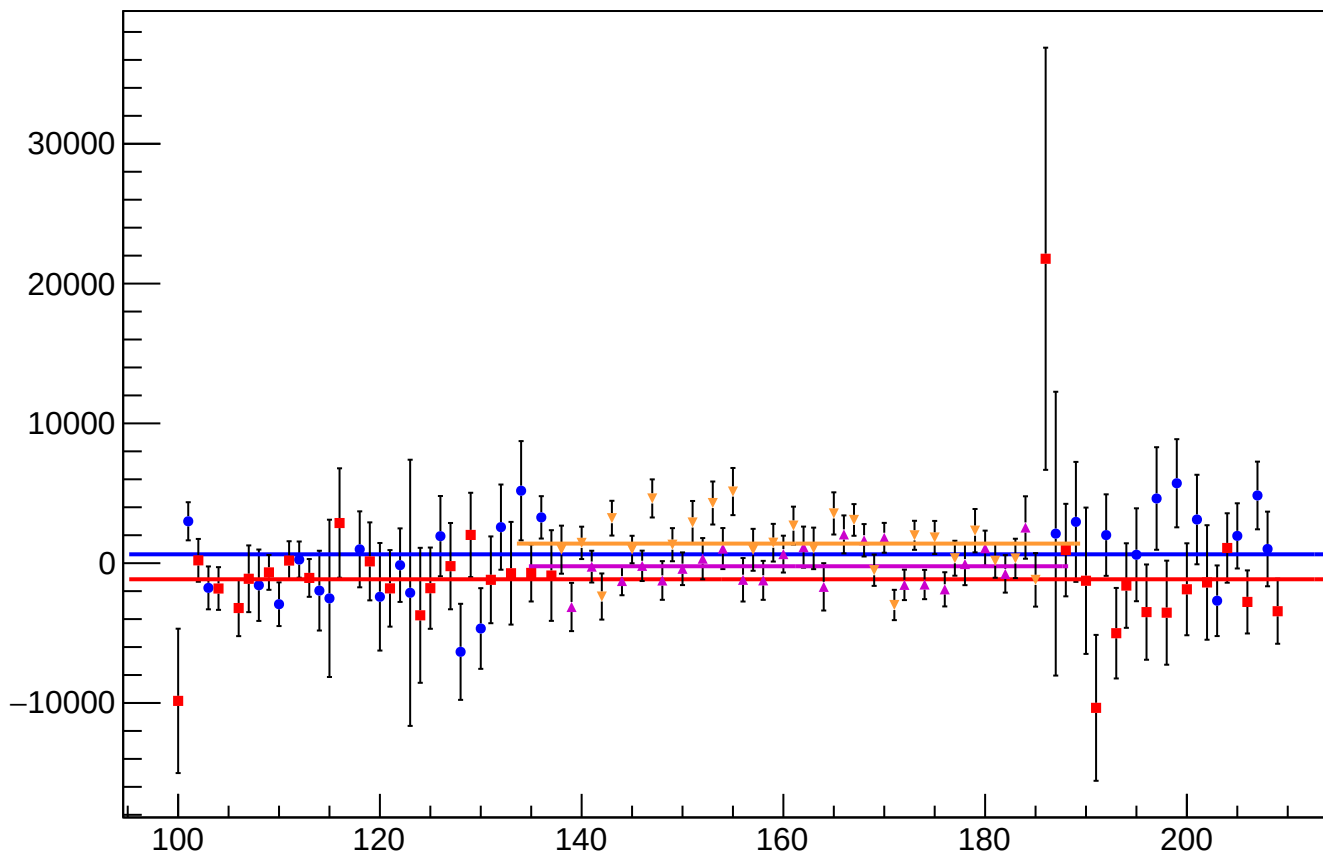
Right: 1550.164+/-0.219 χ^2/NDF : 10128012.1/59

In: 1223.625+/-0.162 χ^2/NDF : 6622800.6/50

Out: 1213.056+/-0.156 χ^2/NDF : 8114896.6/56

All: 1218.142+/-0.113 χ^2/NDF : 14739892.3/112

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 634.638+/-457.442 χ^2/NDF : 36.3/27

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -1151.055+/-427.416 χ^2/NDF : 19.4/31

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

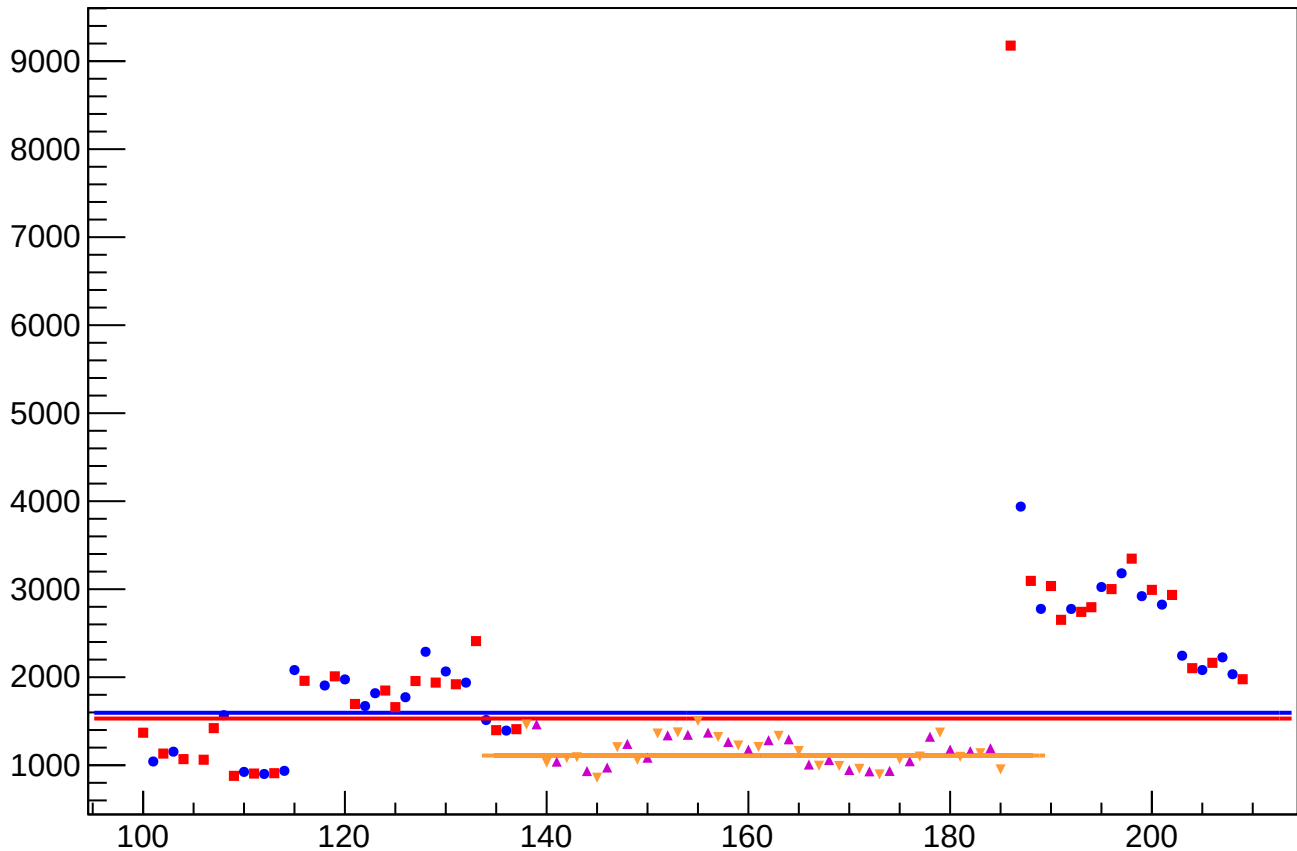
Right: -318.734+/-312.305 χ^2/NDF : 63.8/59

In: -0.128+/-231.784 χ^2/NDF : 63.9/50

Out: 704.334+/-223.252 χ^2/NDF : 97.5/56

All: 365.308+/-160.795 χ^2/NDF : 166.2/107

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1595.986 $\pm$ 0.323 χ^2/NDF : 4200034.9/27

Left Out: 1109.761 $\pm$ 0.185 χ^2/NDF : 812174.9/24

Right Out: 1530.480 $\pm$ 0.302 χ^2/NDF : 5809286.9/31

Left In: 1110.542 $\pm$ 0.190 χ^2/NDF : 669928.9/22

Left: 1110.141 $\pm$ 0.133 χ^2/NDF : 1482112.5/47

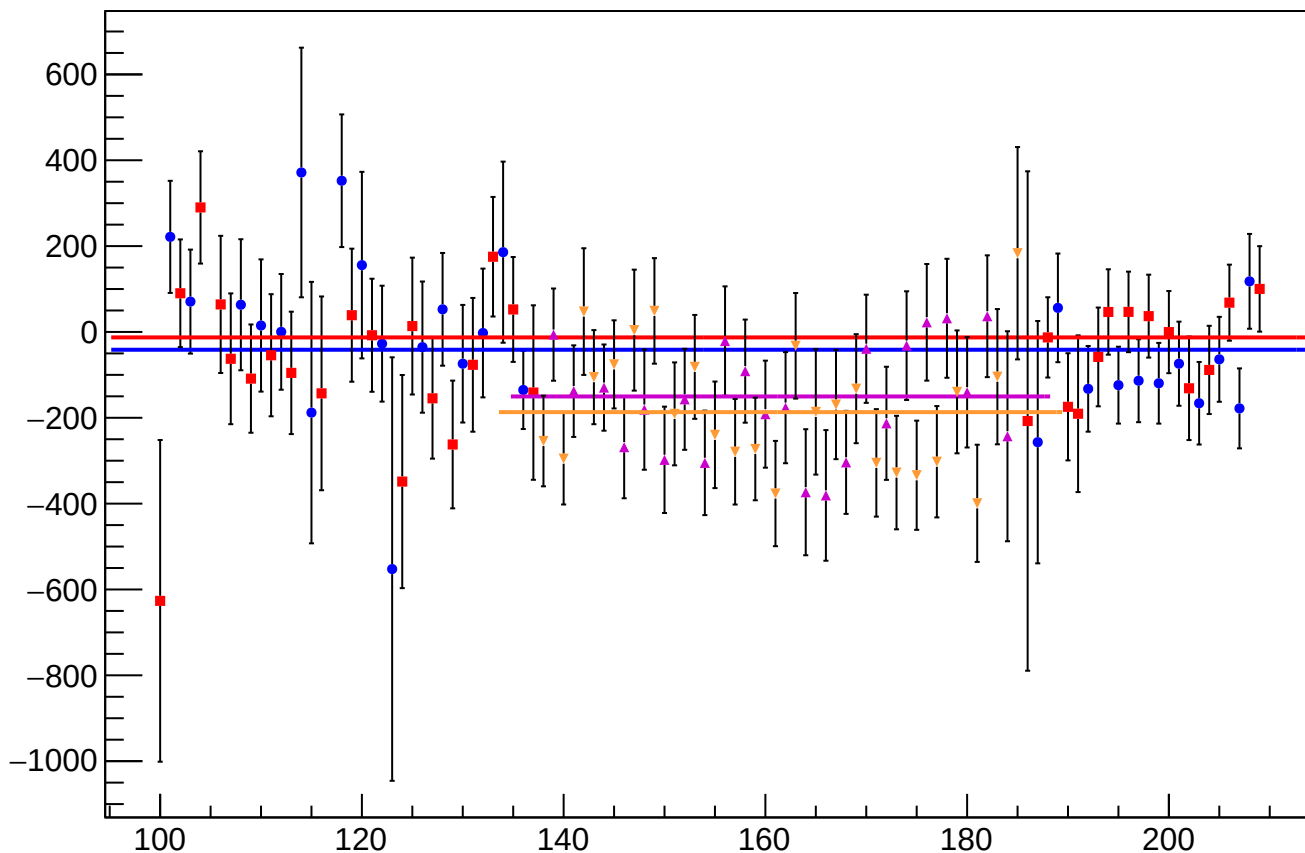
Right: 1561.013 $\pm$ 0.221 χ^2/NDF : 10031218.4/59

In: 1235.175 $\pm$ 0.164 χ^2/NDF : 6544043.1/50

Out: 1224.545 $\pm$ 0.158 χ^2/NDF : 8030586.5/56

All: 1229.661 $\pm$ 0.114 χ^2/NDF : 14576811.7/56

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -41.480 ± 23.669 $\chi^2/\text{NDF}: 29.3/27$

Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$

Right Out: -12.744 ± 22.723 $\chi^2/\text{NDF}: 26.4/31$

Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$

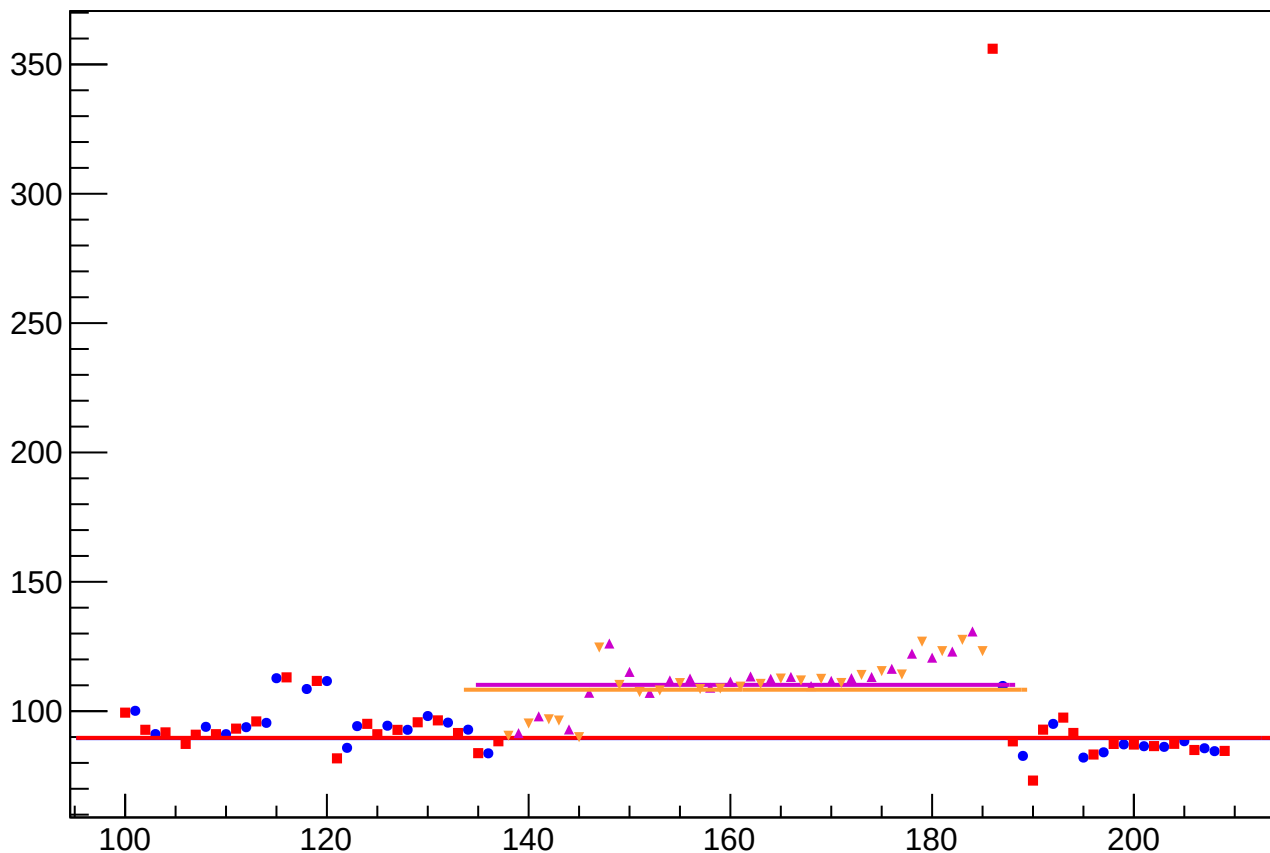
Right: -26.526 ± 16.392 $\chi^2/\text{NDF}: 56.5/59$

In: -89.888 ± 17.637 $\chi^2/\text{NDF}: 59.4/50$

Out: -90.448 ± 16.908 $\chi^2/\text{NDF}: 79.2/56$

All: -90.180 ± 12.205 $\chi^2/\text{NDF}: 138.6/107$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.570 $\pm$ 0.017 χ^2 /NDF: 161597.7/27

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 89.685 $\pm$ 0.016 χ^2 /NDF: 582884.4/31

Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47

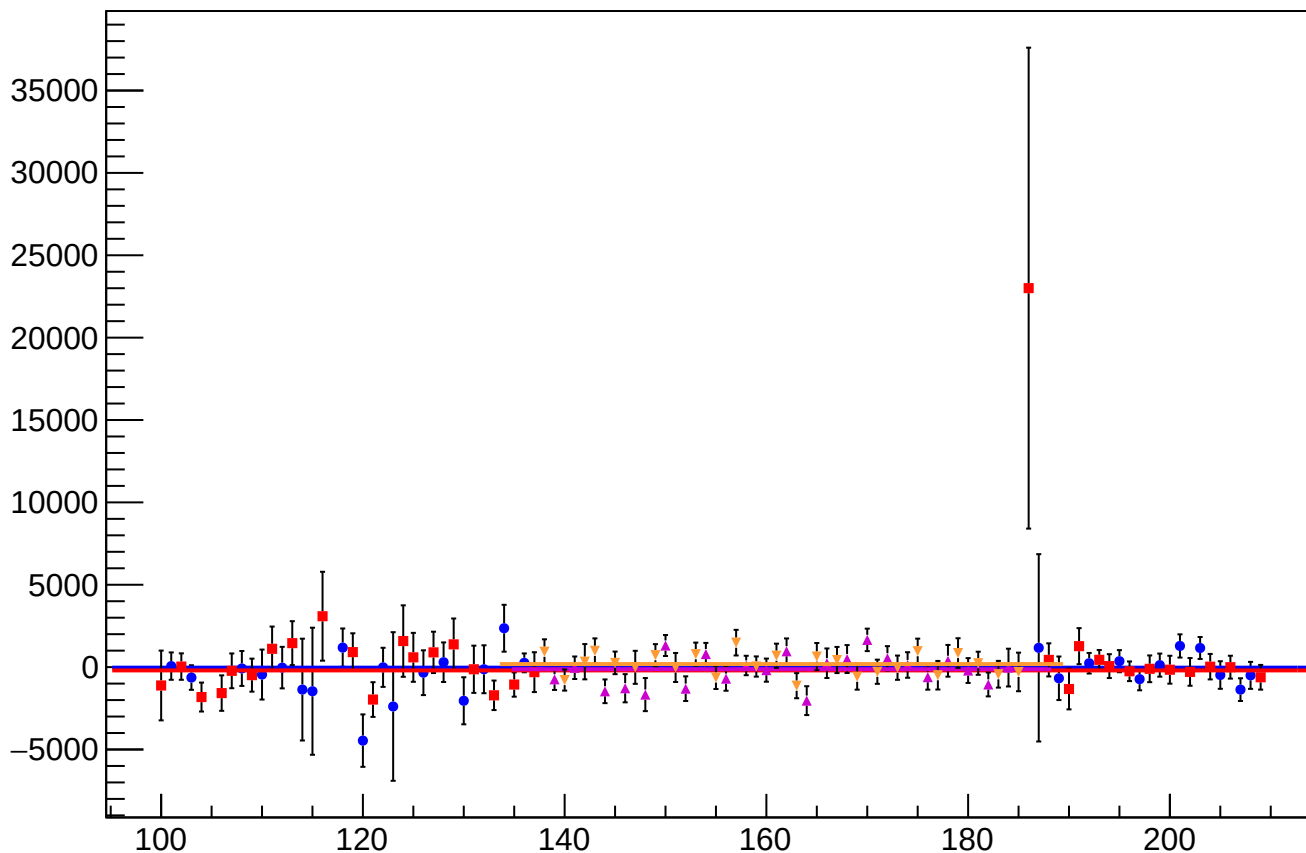
Right: 89.630 $\pm$ 0.012 χ^2 /NDF: 744506.8/59

In: 98.734 $\pm$ 0.012 χ^2 /NDF: 1082598.8/50

Out: 97.988 $\pm$ 0.012 χ^2 /NDF: 1511844.3/56

All: 98.345 $\pm$ 0.009 χ^2 /NDF: 2596307.1/107

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -32.945 ± 176.986 $\chi^2/\text{NDF}: 28.4/27$

Left Out: 185.392 ± 153.683 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -199.263 ± 170.021 $\chi^2/\text{NDF}: 27.4/31$

Left In: -128.782 ± 157.155 $\chi^2/\text{NDF}: 36.2/22$

Left: 31.814 ± 109.877 $\chi^2/\text{NDF}: 56.6/47$

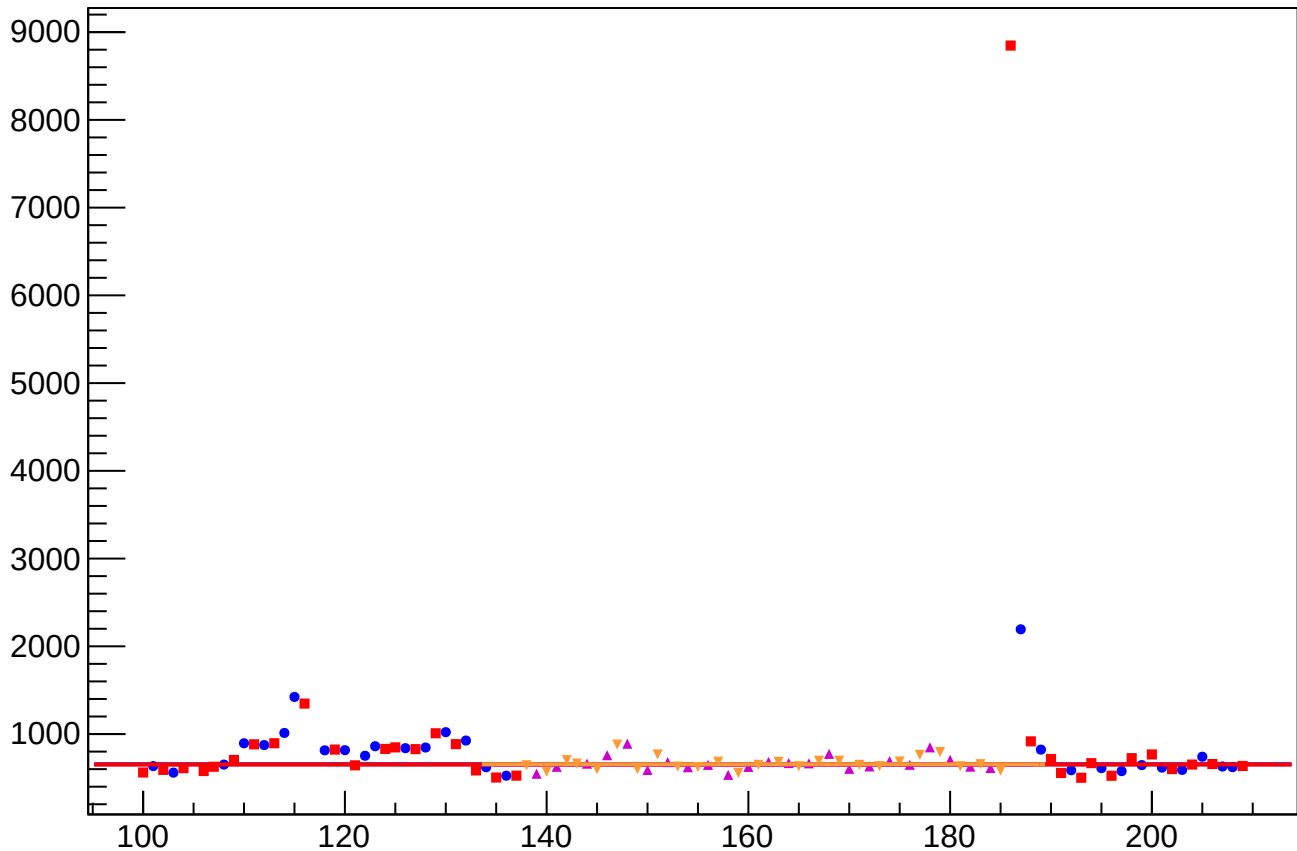
Right: -119.441 ± 122.612 $\chi^2/\text{NDF}: 56.3/59$

In: -86.531 ± 117.514 $\chi^2/\text{NDF}: 64.7/50$

Out: 12.430 ± 114.010 $\chi^2/\text{NDF}: 48.6/56$

All: -35.553 ± 81.828 $\chi^2/\text{NDF}: 113.7/107$

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 655.309+/-0.125 χ^2/NDF : 1007066.8/27

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 652.992+/-0.120 χ^2/NDF : 1766730.0/31

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

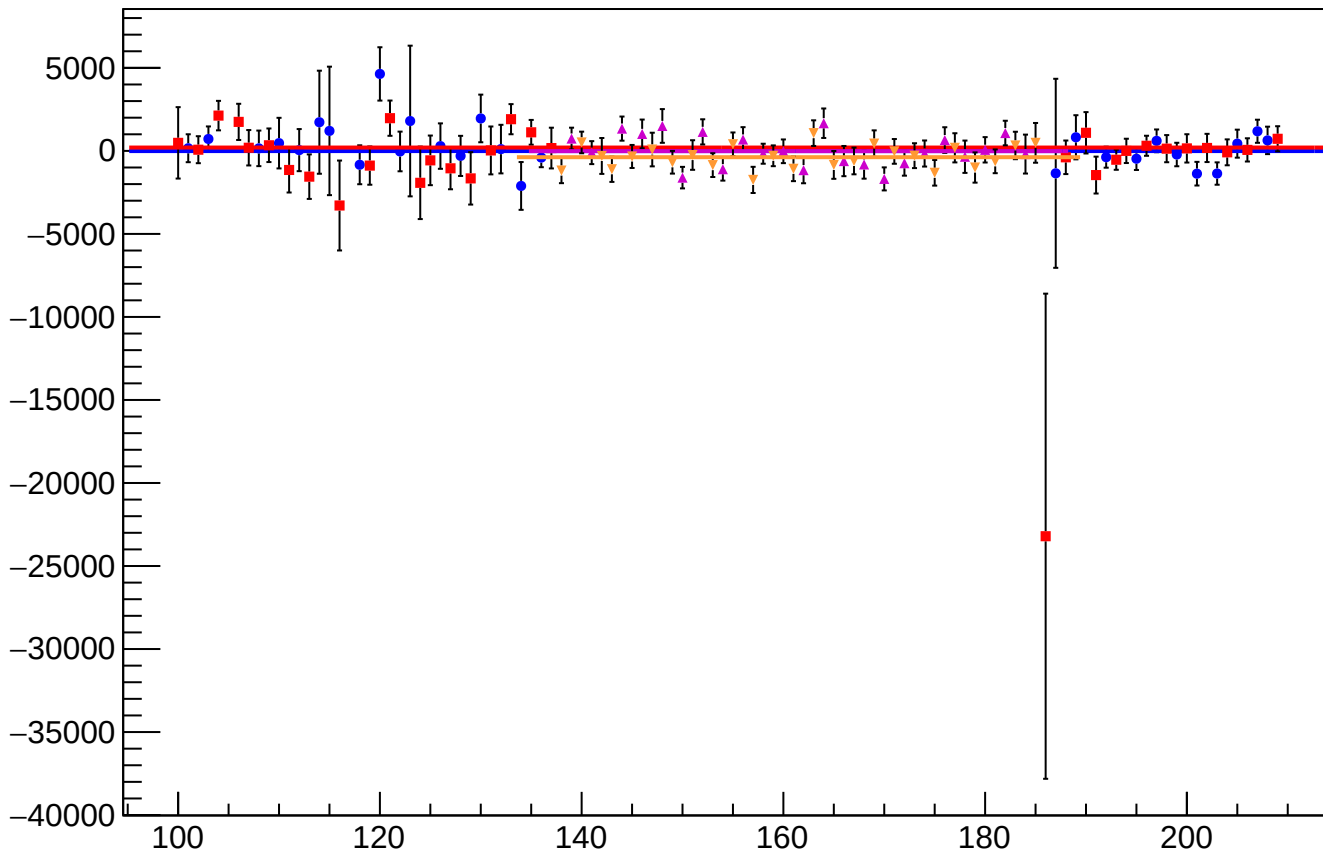
Right: 654.104+/-0.087 χ^2/NDF : 2773974.9/59

In: 652.834+/-0.083 χ^2/NDF : 1473882.8/50

Out: 654.183+/-0.081 χ^2/NDF : 2134257.9/56

All: 653.529+/-0.058 χ^2/NDF : 3608276.4/107

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -11.190 ± 178.782 $\chi^2/\text{NDF}: 28.8/27$

Left Out: -379.470 ± 155.892 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 202.087 ± 171.836 $\chi^2/\text{NDF}: 31.3/31$

Left In: -14.768 ± 159.513 $\chi^2/\text{NDF}: 37.2/22$

Left: -201.306 ± 111.491 $\chi^2/\text{NDF}: 58.7/47$

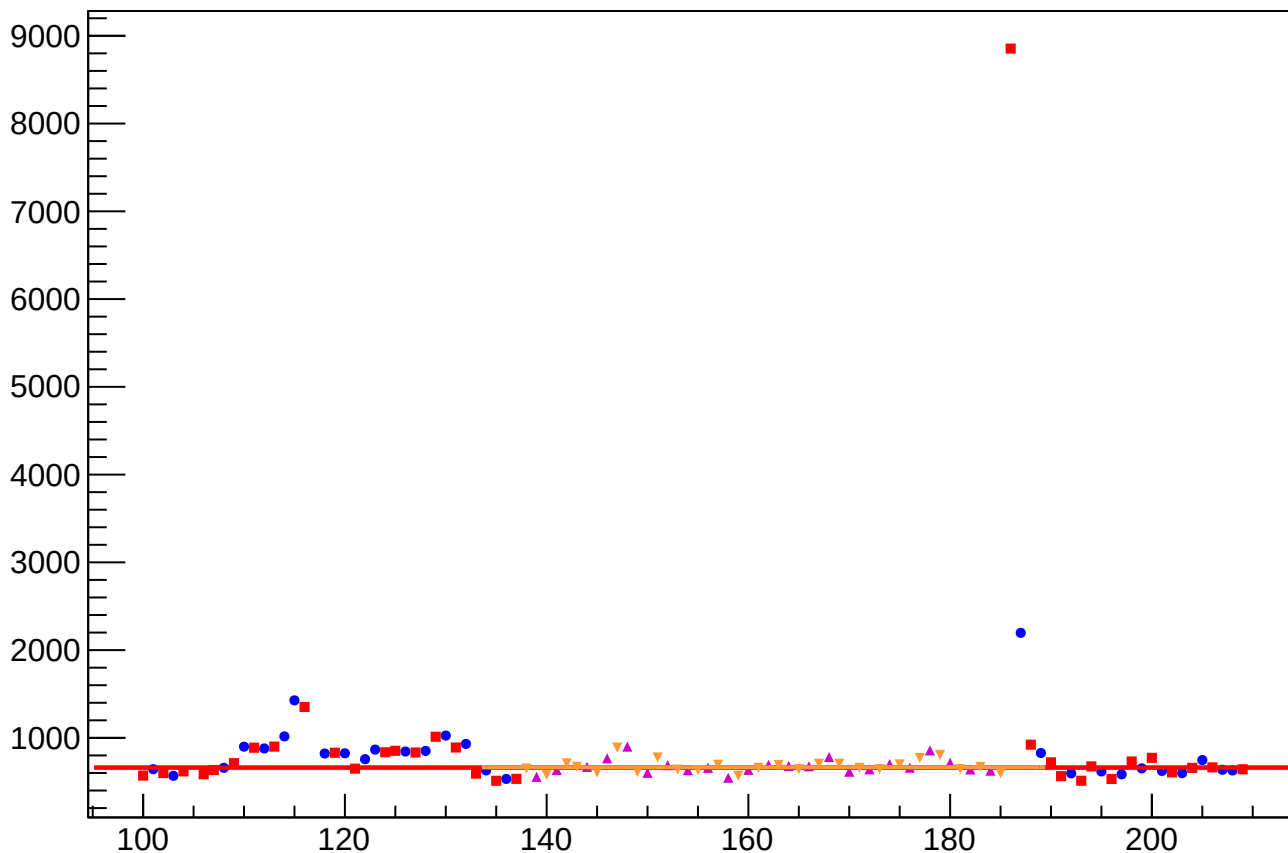
Right: 99.672 ± 123.889 $\chi^2/\text{NDF}: 60.8/59$

In: -13.182 ± 119.025 $\chi^2/\text{NDF}: 66.0/50$

Out: -116.918 ± 115.459 $\chi^2/\text{NDF}: 56.4/56$

All: -66.627 ± 82.874 $\chi^2/\text{NDF}: 122.8/107$

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 662.364+/-0.126 χ^2/NDF : 984975.6/27

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 660.524+/-0.122 χ^2/NDF : 1730536.1/31

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

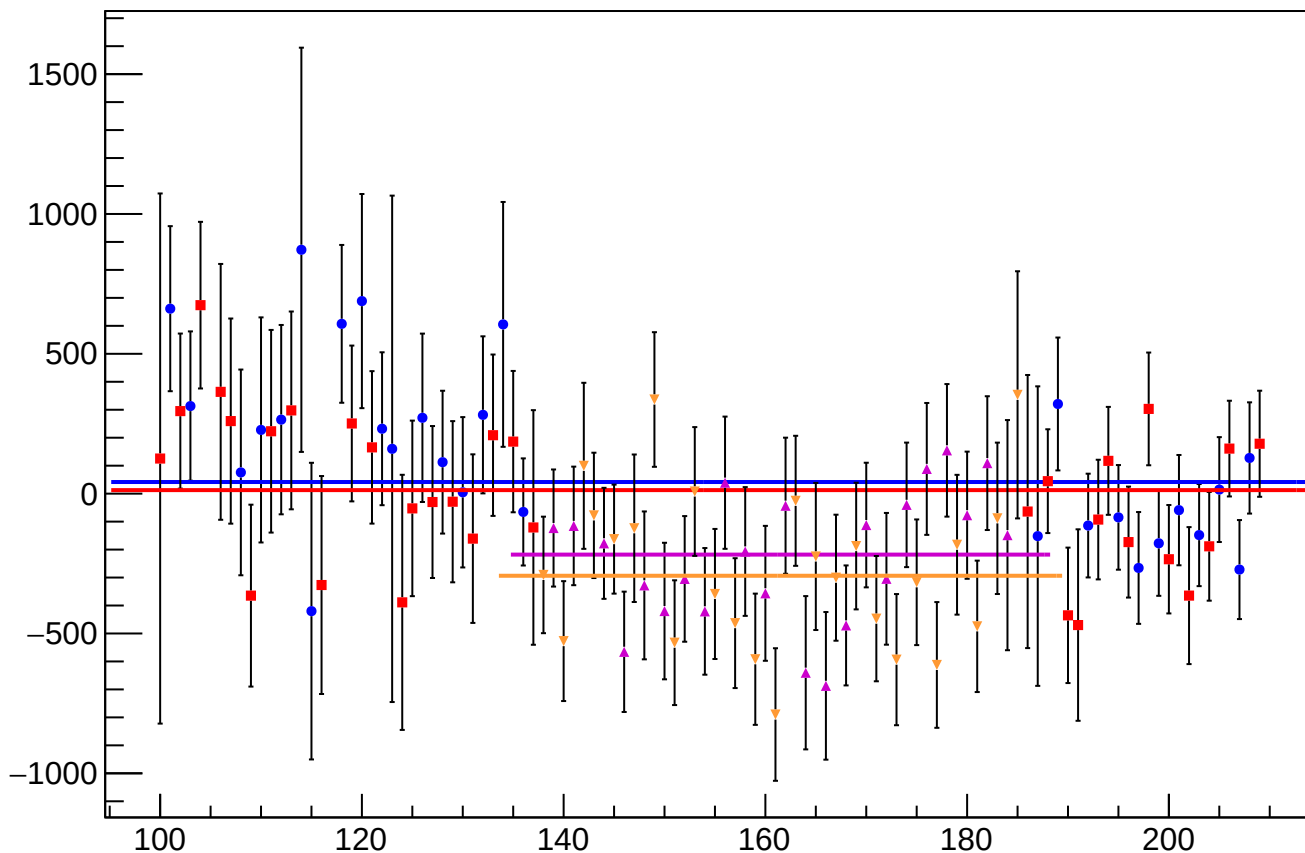
Right: 661.408+/-0.088 χ^2/NDF : 2715621.9/59

In: 661.544+/-0.084 χ^2/NDF : 1434231.4/50

Out: 662.854+/-0.082 χ^2/NDF : 2088260.6/56

All: 662.219+/-0.059 χ^2/NDF : 3522616.9/107

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected

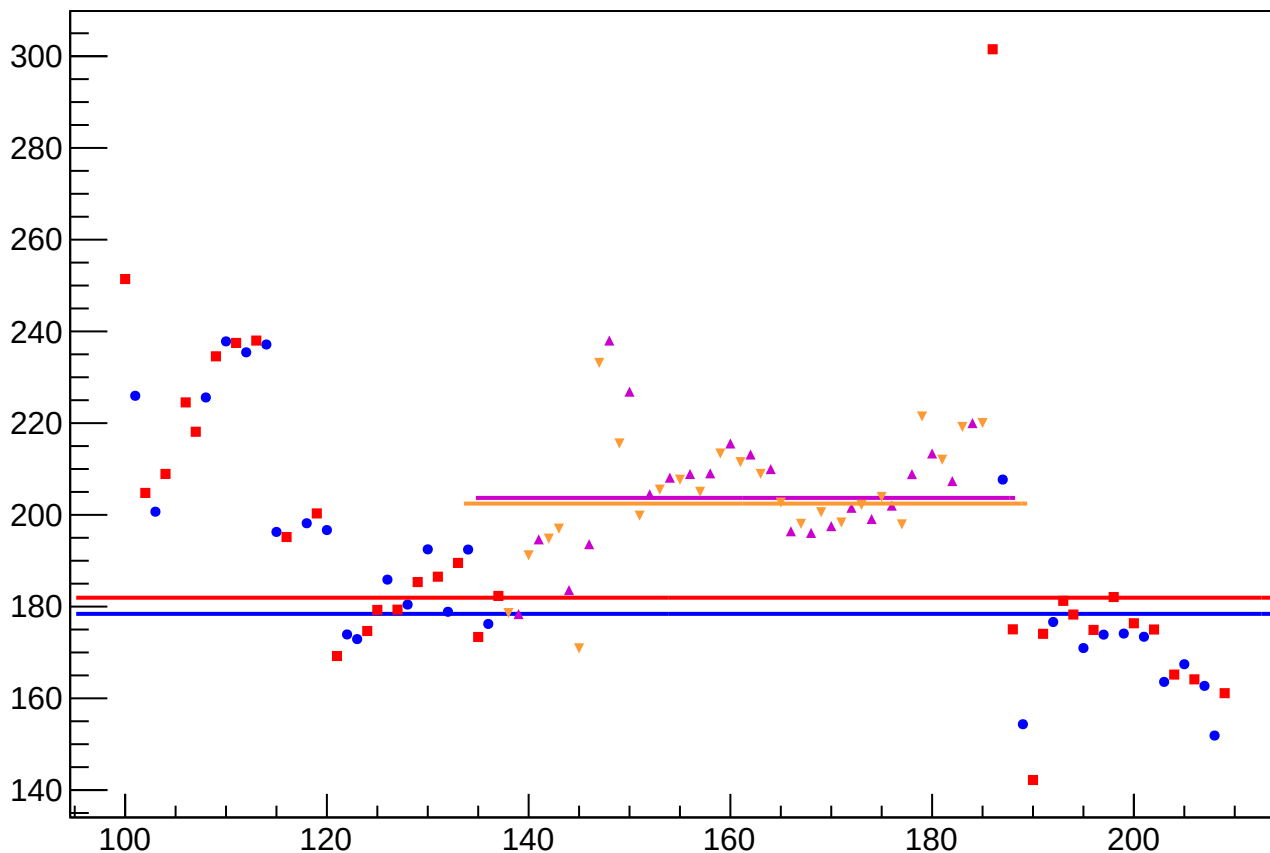


Right In: 41.582 ± 47.340 $\chi^2/\text{NDF}: 30.0/27$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 12.617 ± 46.136 $\chi^2/\text{NDF}: 28.9/31$
 Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$
 Right: 26.726 ± 33.041 $\chi^2/\text{NDF}: 59.1/59$
 In: -84.201 ± 33.985 $\chi^2/\text{NDF}: 65.9/50$
 Out: -136.986 ± 32.994 $\chi^2/\text{NDF}: 80.8/56$

All: -111.375 ± 23.673 $\chi^2/\text{NDF}: 147.9/107$

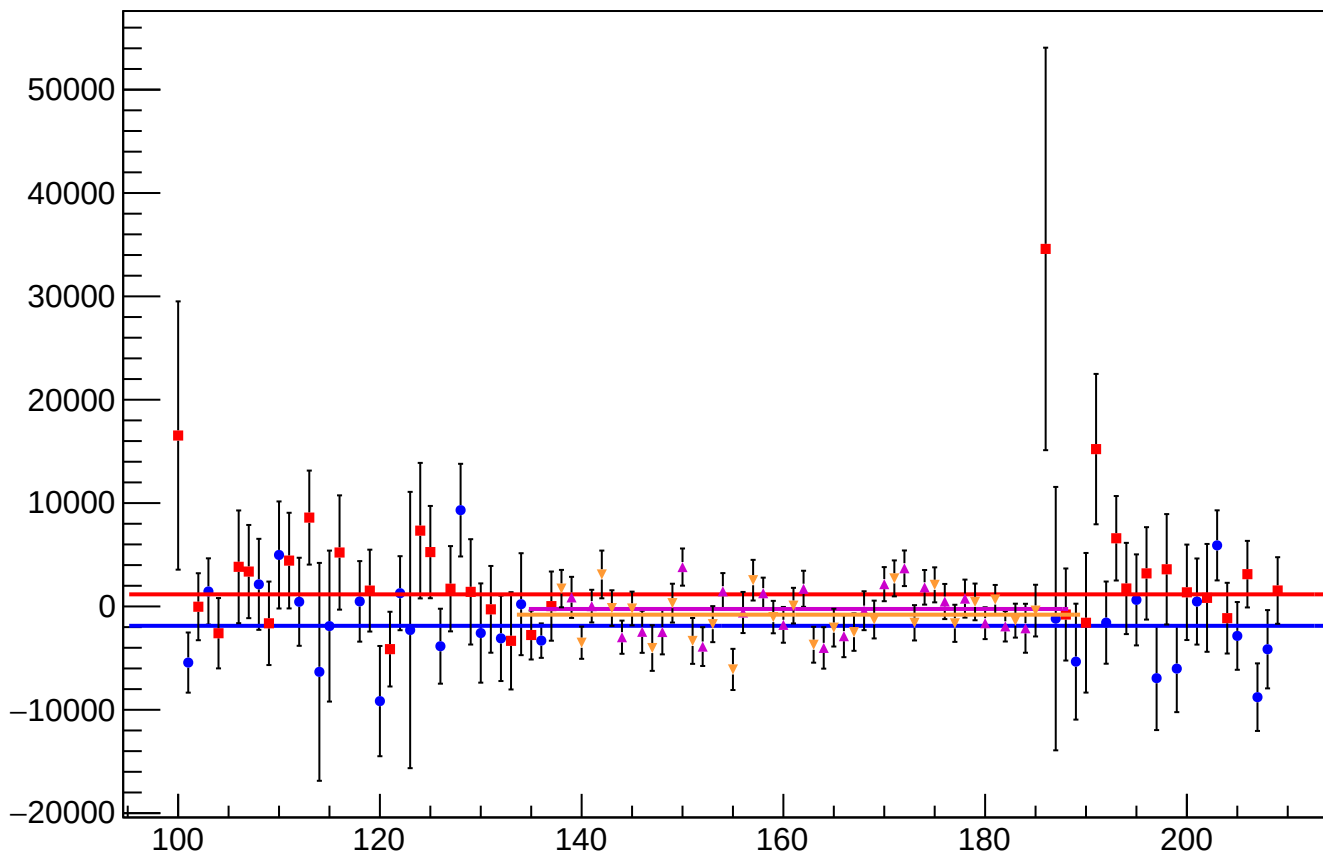
reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 178.417 $\pm$ 0.033 χ^2 /NDF: 343278.4/27
 Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24
 Right Out: 181.940 $\pm$ 0.033 χ^2 /NDF: 492564.7/31
 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: 180.224 $\pm$ 0.023 χ^2 /NDF: 841523.7/59
 In: 190.669 $\pm$ 0.024 χ^2 /NDF:755905.9/50
 Out: 191.965 $\pm$ 0.023 χ^2 /NDF:844424.7/56
 All: 191.336 $\pm$ 0.017 χ^2 /NDF: 1601826.7/107

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1875.100 ± 735.084 $\chi^2/\text{NDF}: 29.4/27$

Left Out: -796.528 ± 357.851 $\chi^2/\text{NDF}: 35.7/24$

Right Out: 1170.047 ± 746.982 $\chi^2/\text{NDF}: 25.3/31$

Left In: -245.102 ± 369.846 $\chi^2/\text{NDF}: 35.7/22$

Left: -529.902 ± 257.175 $\chi^2/\text{NDF}: 72.6/47$

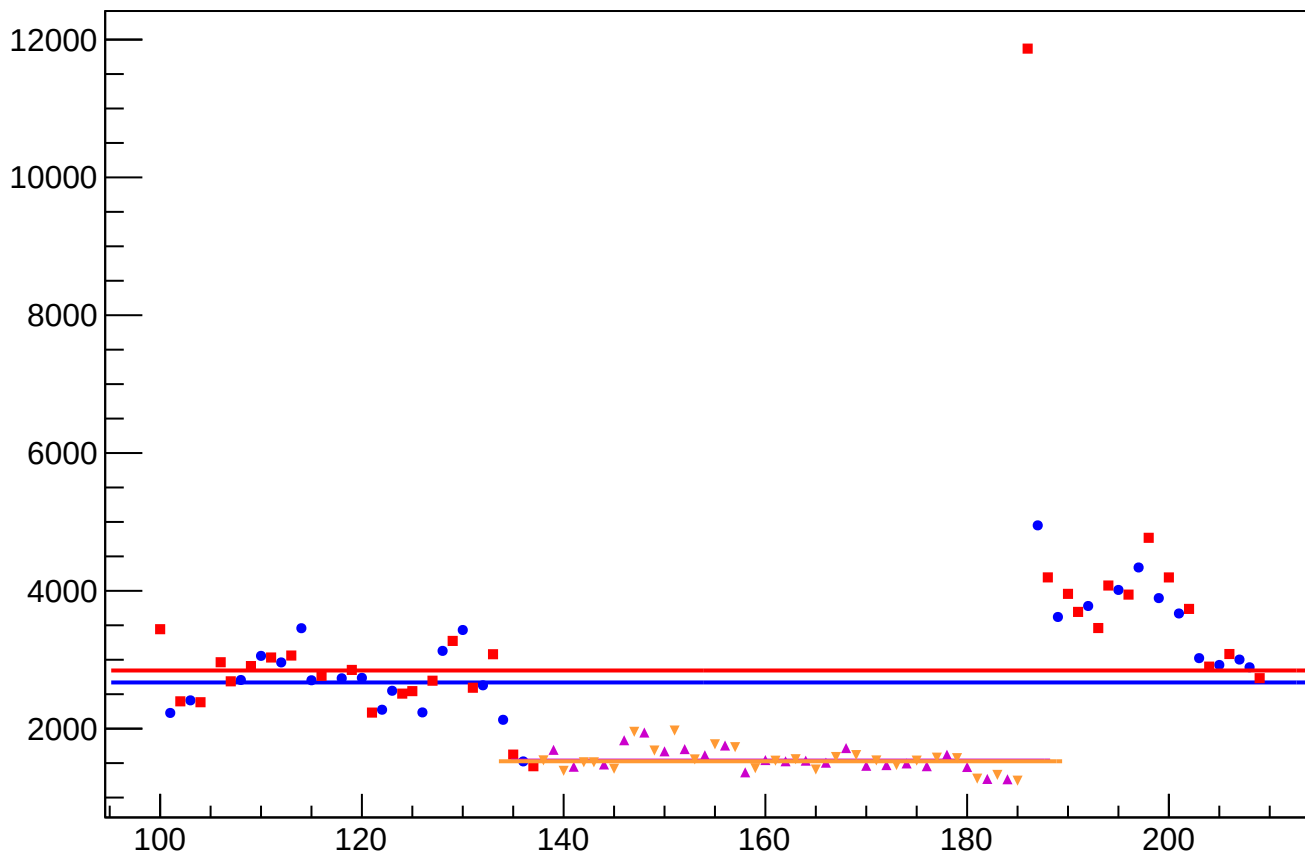
Right: -376.972 ± 523.939 $\chi^2/\text{NDF}: 63.1/59$

In: -574.374 ± 330.385 $\chi^2/\text{NDF}: 69.0/50$

Out: -429.444 ± 322.729 $\chi^2/\text{NDF}: 66.7/56$

All: -500.210 ± 230.863 $\chi^2/\text{NDF}: 135.8/107$

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2670.503+/-0.520

χ^2/NDF : 2216090.4/27

Left Out: 1526.712+/-0.253

χ^2/NDF : 394892.7/24

Right Out: 2844.133+/-0.528

χ^2/NDF : 2589705.6/31

Left In: 1536.538+/-0.262

χ^2/NDF : 350373.3/22

Left: 1531.463+/-0.182

χ^2/NDF : 745995.2/47

Right: 2755.924+/-0.370

χ^2/NDF : 4860692.4/59

In: 1765.607+/-0.234

χ^2/NDF : 6364461.4/50

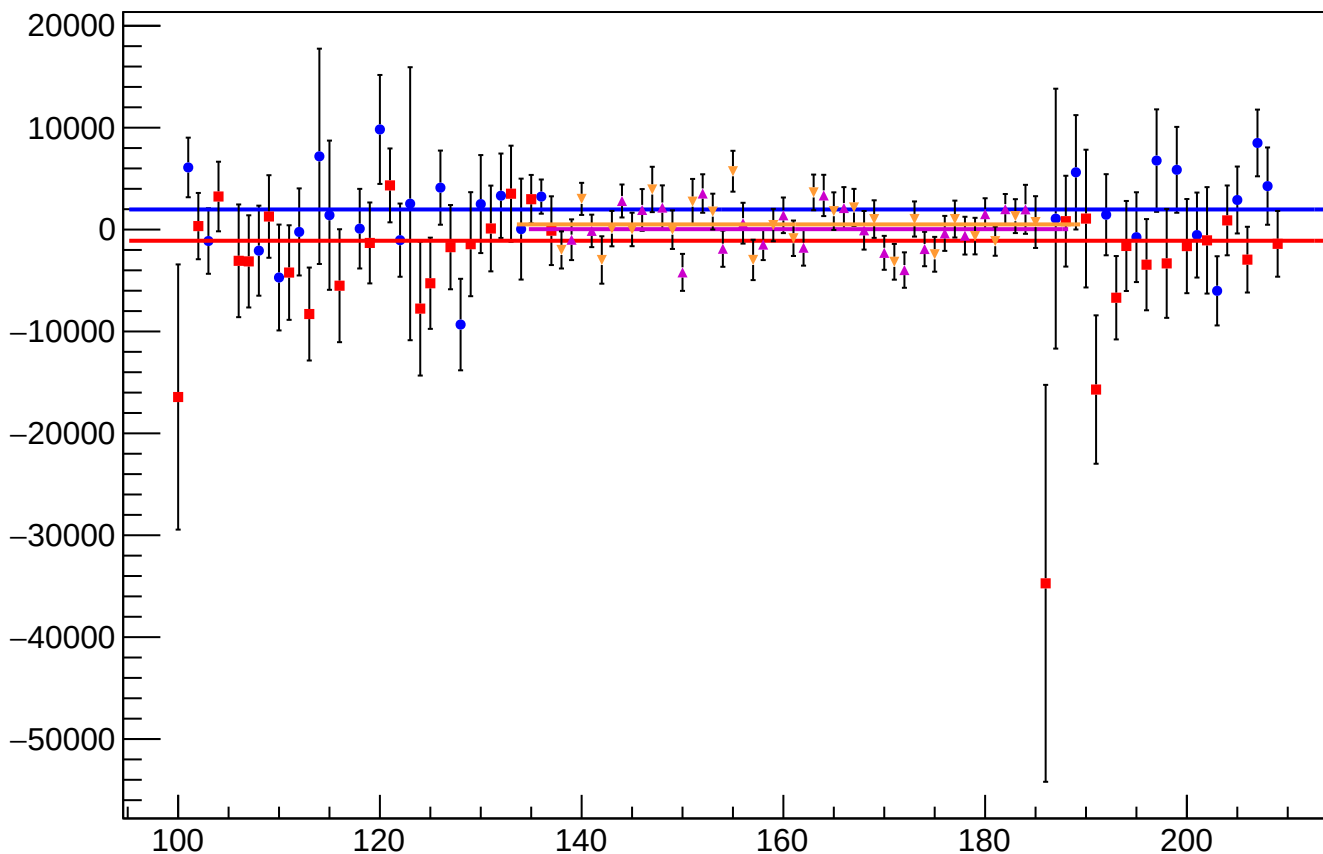
Out: 1772.624+/-0.228

χ^2/NDF : 8044359.4/56

All: 1769.198+/-0.163

χ^2/NDF : 14409282.3/100

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1974.221+/-737.520 χ^2/NDF : 29.4/27

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -1097.090+/-749.267 χ^2/NDF : 26.0/31

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

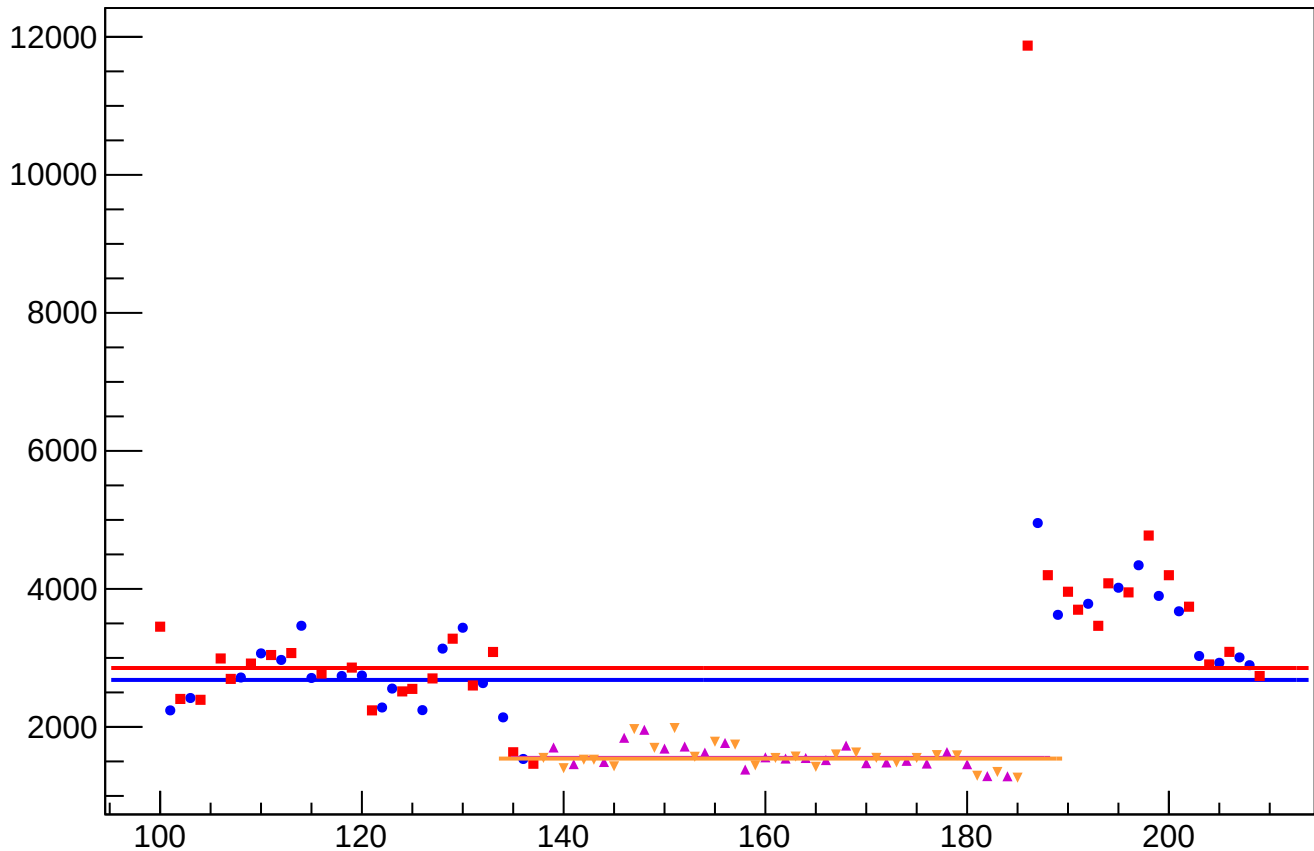
Right: 462.831+/-525.610 χ^2/NDF : 64.0/59

In: 434.471+/-333.038 χ^2/NDF : 68.5/50

Out: 205.351+/-325.347 χ^2/NDF : 65.1/56

All: 317.235+/-232.726 χ^2/NDF : 133.8/107

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2680.990 ± 0.522 $\chi^2/\text{NDF}: 2185424.9/27$

Left Out: 1541.258 ± 0.255 $\chi^2/\text{NDF}: 382045.4/24$

Right Out: 2853.831 ± 0.530 $\chi^2/\text{NDF}: 2564820.6/31$

Left In: 1551.063 ± 0.264 $\chi^2/\text{NDF}: 338898.9/22$

Left: 1546.000 ± 0.184 $\chi^2/\text{NDF}: 721657.1/47$

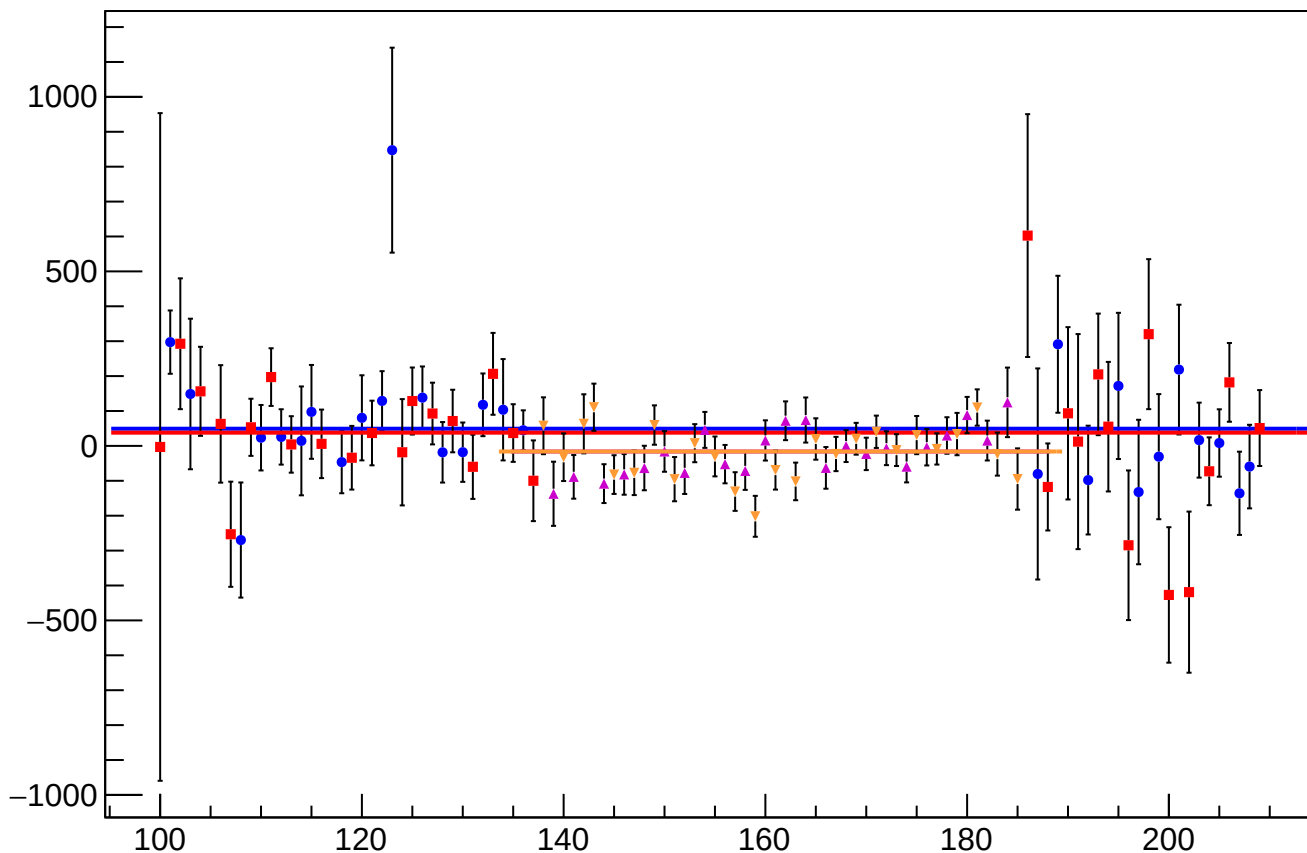
Right: 2766.045 ± 0.372 $\chi^2/\text{NDF}: 4804299.4/59$

In: 1781.467 ± 0.235 $\chi^2/\text{NDF}: 6261510.5/50$

Out: 1788.740 ± 0.230 $\chi^2/\text{NDF}: 7927289.4/56$

All: 1785.188 ± 0.165 $\chi^2/\text{NDF}: 14189287.8/112$

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 49.213 ± 20.921 $\chi^2/\text{NDF}: 32.5/27$

Left Out: -16.049 ± 11.340 $\chi^2/\text{NDF}: 39.7/24$

Right Out: 37.880 ± 20.874 $\chi^2/\text{NDF}: 39.0/31$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

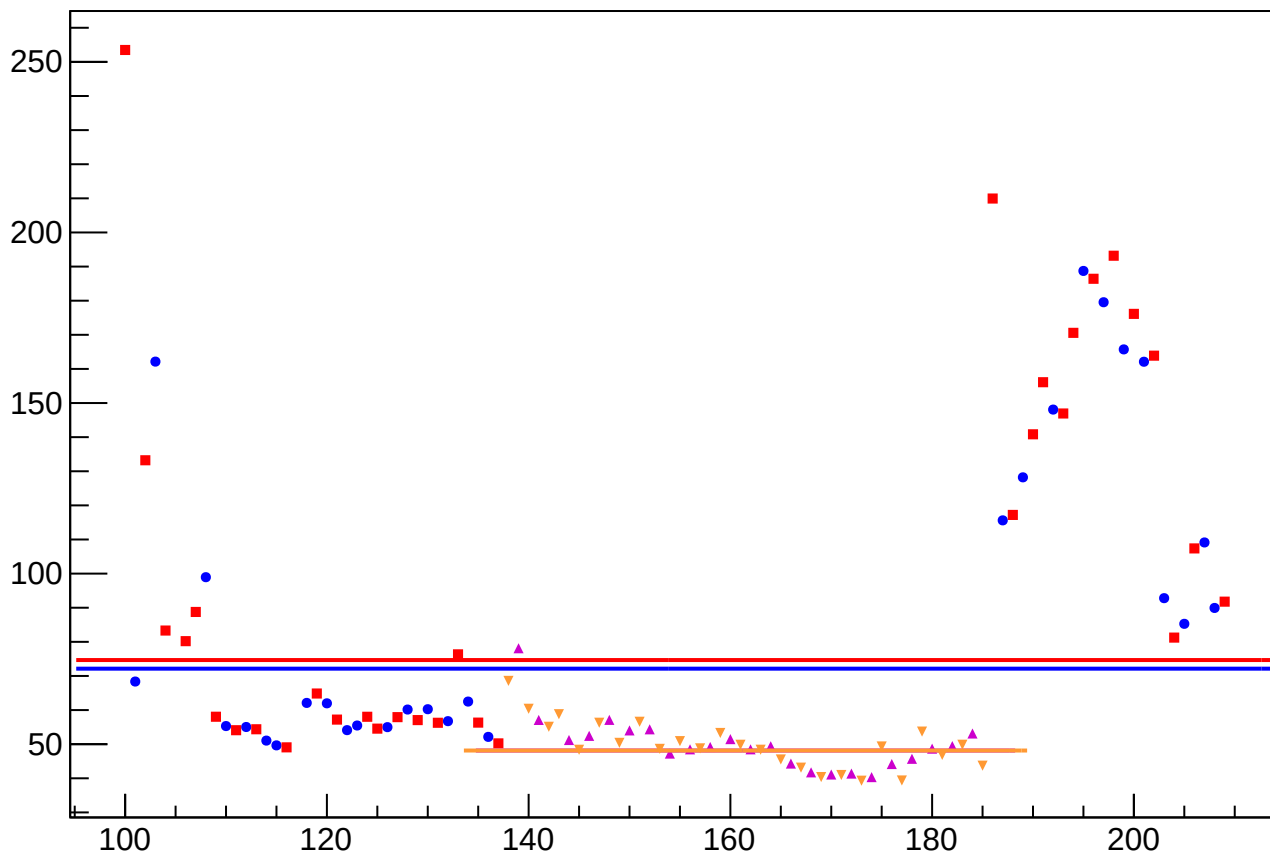
Right: 43.534 ± 14.777 $\chi^2/\text{NDF}: 71.6/59$

In: -0.689 ± 10.178 $\chi^2/\text{NDF}: 65.1/50$

Out: -3.760 ± 9.964 $\chi^2/\text{NDF}: 83.9/56$

All: -2.257 ± 7.120 $\chi^2/\text{NDF}: 149.1/107$

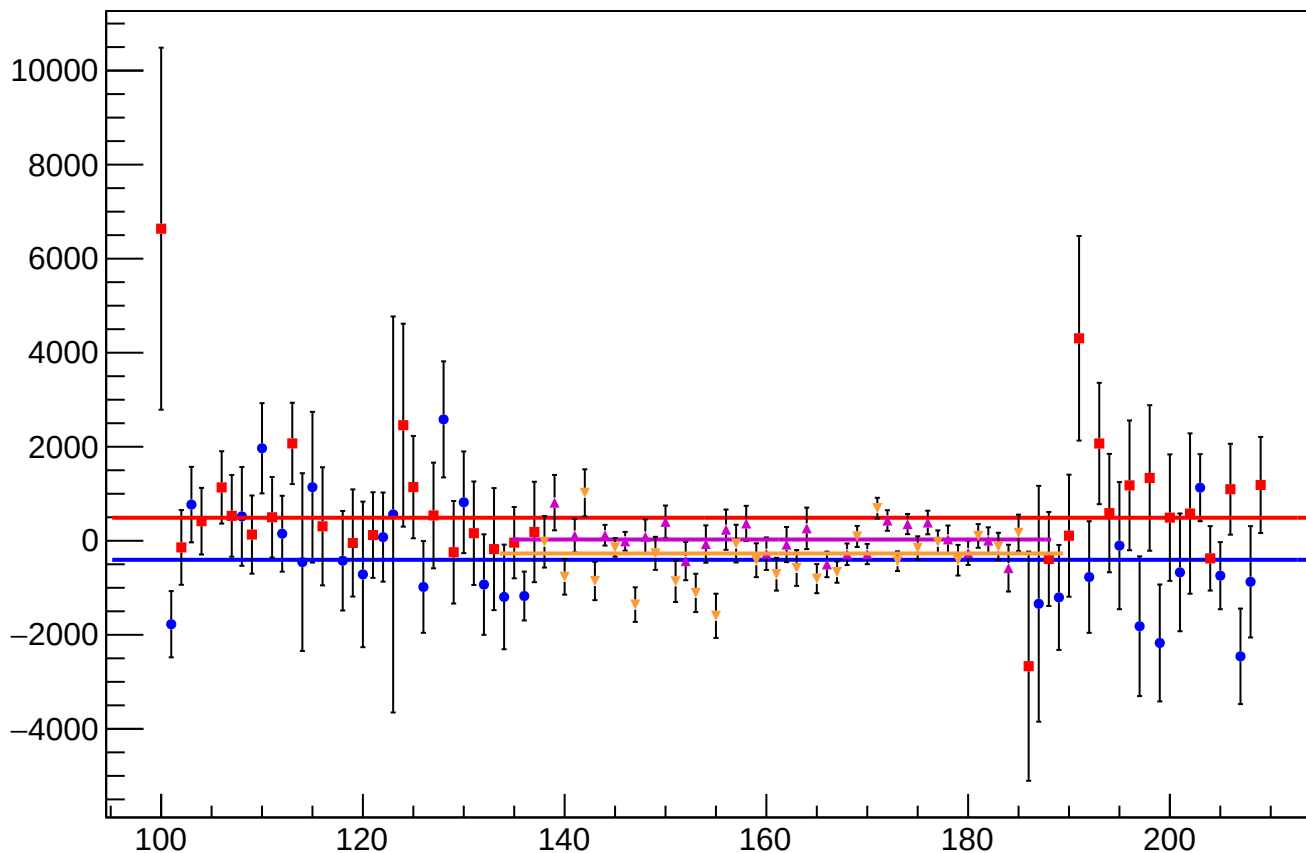
reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 72.136 $\pm$ 0.015 χ^2 /NDF: 4452803.6/27
 Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF:655250.3/24
 Right Out: 74.664 $\pm$ 0.015 χ^2 /NDF: 5306548.1/31
 Left In: 48.139 $\pm$ 0.008 χ^2 /NDF:575025.5/22

Left: 48.140 $\pm$ 0.006 χ^2 /NDF: 1230275.9/47
 Right: 73.403 $\pm$ 0.010 χ^2 /NDF: 9773984.2/59
 In: 53.819 $\pm$ 0.007 χ^2 /NDF:7036323.5/50
 Out: 54.184 $\pm$ 0.007 χ^2 /NDF:8454921.2/56
 All: 54.005 $\pm$ 0.005 χ^2 /NDF: 15492564.9/107

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -404.404 ± 189.804 χ^2/NDF : 37.9/27

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 489.835 ± 184.589 χ^2/NDF : 20.5/31

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

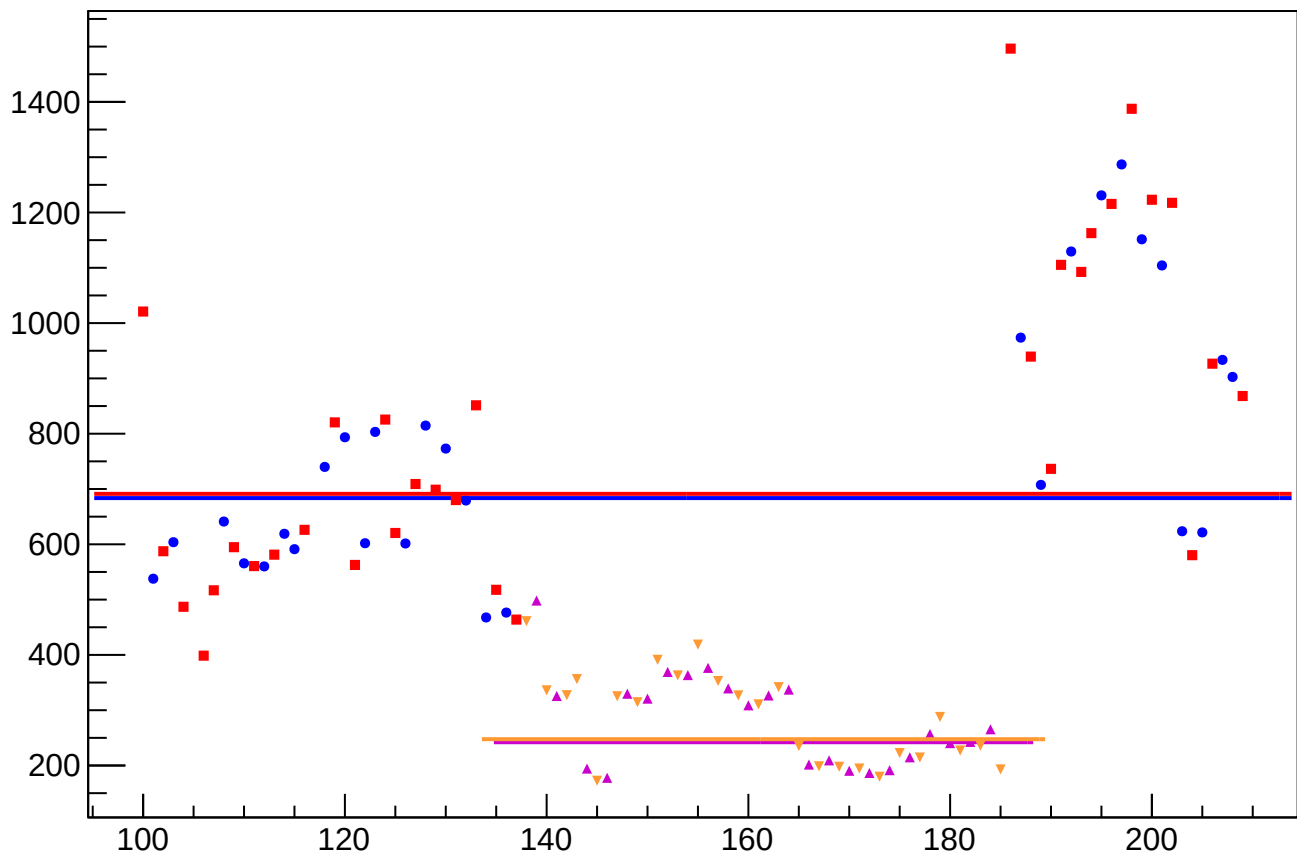
Right: 55.170 ± 132.329 χ^2/NDF : 69.8/59

In: -12.459 ± 57.582 χ^2/NDF : 67.6/50

Out: -197.195 ± 57.214 χ^2/NDF : 105.9/56

All: -105.420 ± 40.586 χ^2/NDF : 178.7/107

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 683.583 $\pm$ 0.134 χ^2 /NDF: 2365255.8/27

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF:2780931.0/24

Right Out: 691.258 $\pm$ 0.131 χ^2 /NDF: 3322482.8/31

Left In: 242.117 $\pm$ 0.043 χ^2 /NDF:2466108.9/22

Left: 244.855 $\pm$ 0.030 χ^2 /NDF: 5255218.1/47

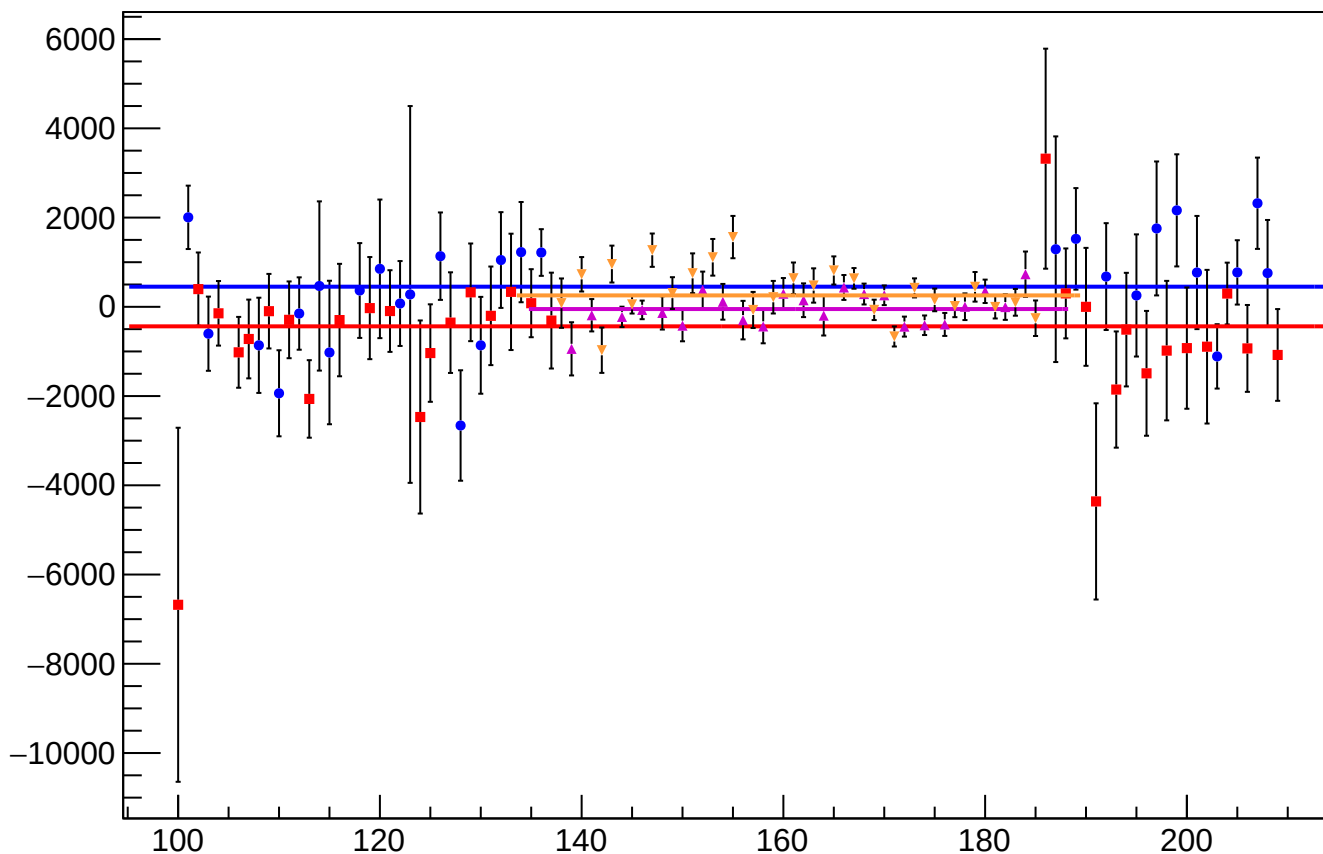
Right: 687.528 $\pm$ 0.094 χ^2 /NDF: 5689419.4/59

In: 282.748 $\pm$ 0.041 χ^2 /NDF:14655201.1/50

Out: 290.196 $\pm$ 0.040 χ^2 /NDF:16548426.4/56

All: 286.496 $\pm$ 0.029 χ^2 /NDF: 31220463.2/100

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 451.367 $\pm$ 191.560 χ^2 /NDF: 38.9/27

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF:63.6/24

Right Out: -437.449 $\pm$ 186.622 χ^2 /NDF: 20.8/31

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

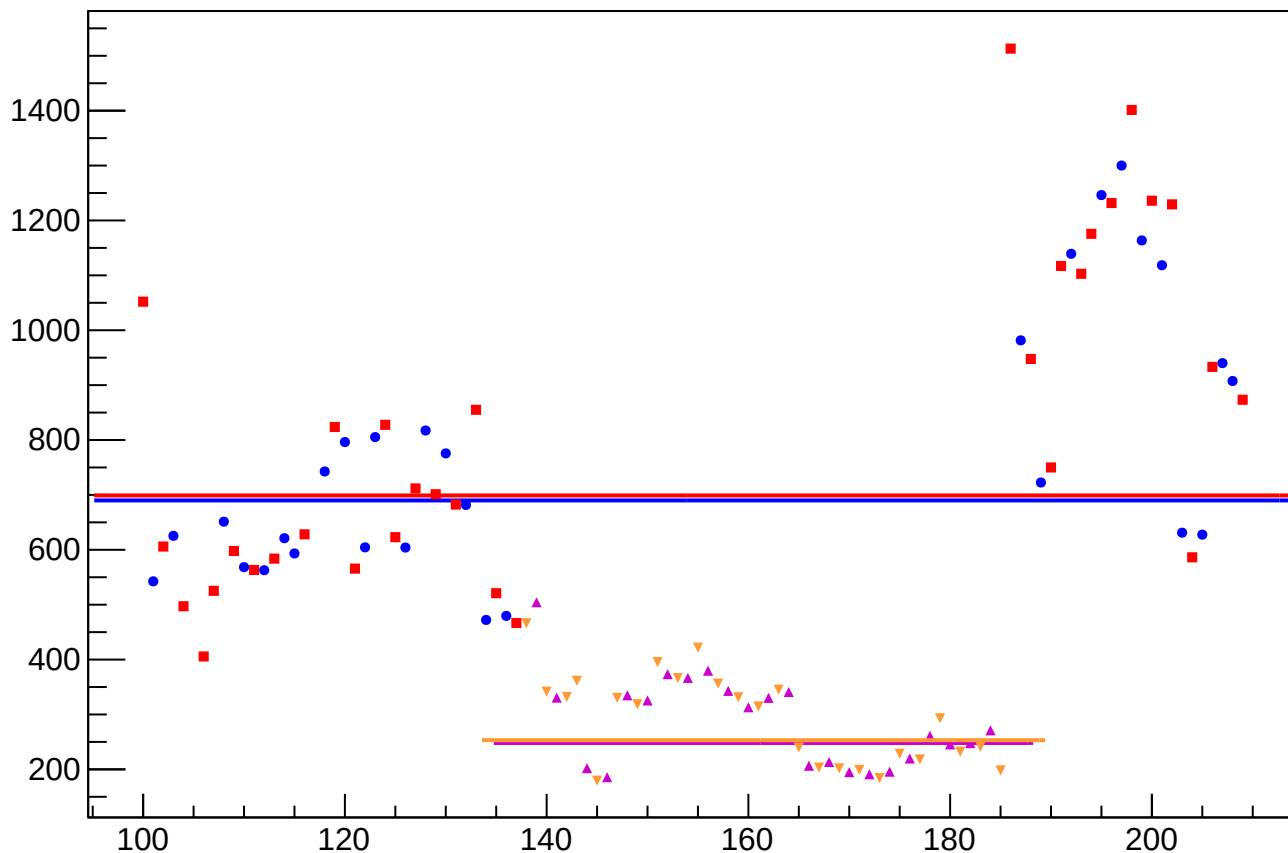
Right: -4.645 $\pm$ 133.673 χ^2 /NDF: 70.8/59

In: -2.611 $\pm$ 58.799 χ^2 /NDF:72.6/50

Out: 188.228 $\pm$ 58.340 χ^2 /NDF:96.9/56

All: 93.556 $\pm$ 41.414 χ^2 /NDF: 174.8/107

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 689.917 $\pm$ 0.135 χ^2 /NDF: 2368820.5/27

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF:2665975.8/24

Right Out: 699.022 $\pm$ 0.132 χ^2 /NDF: 3293046.4/31

Left In: 248.069 $\pm$ 0.044 χ^2 /NDF:2343295.0/22

Left: 250.618 $\pm$ 0.031 χ^2 /NDF: 5016040.5/47

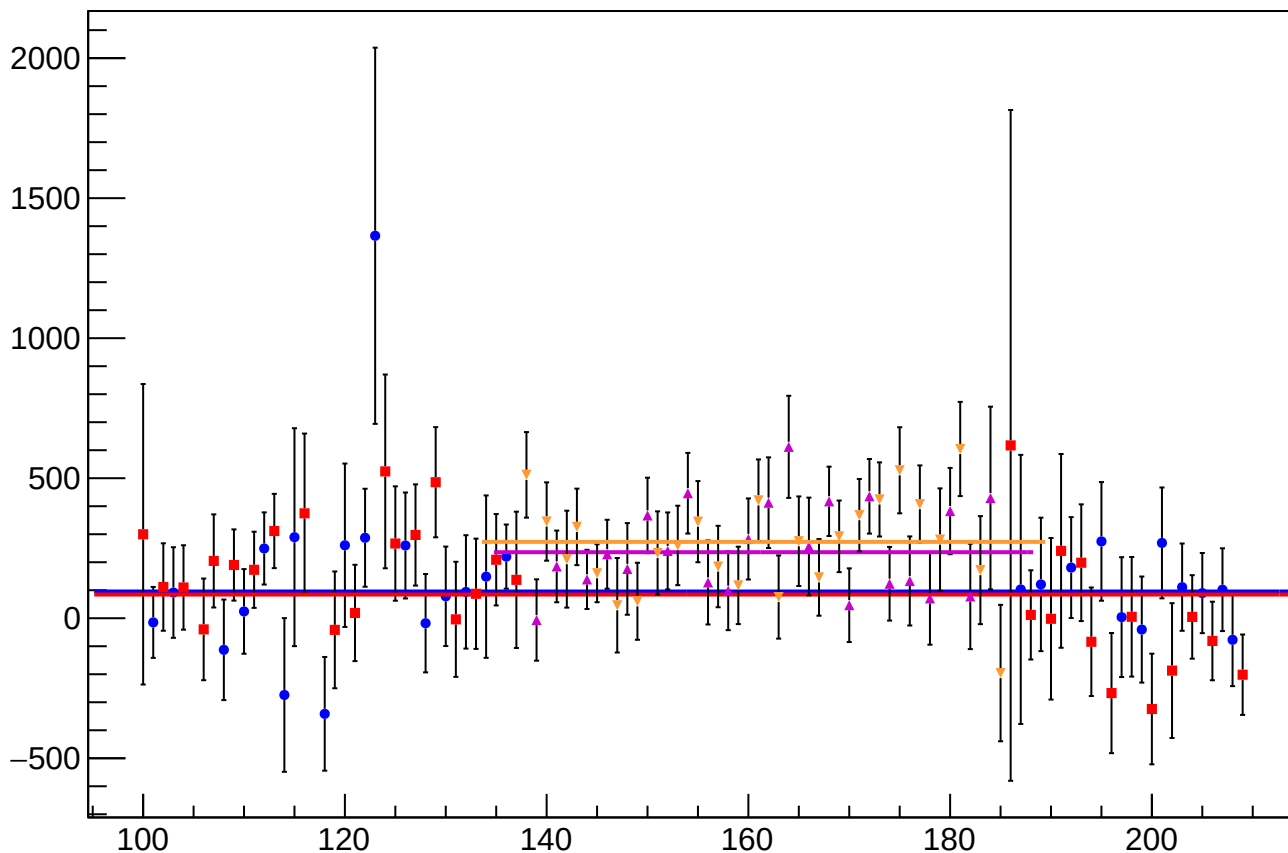
Right: 694.588 $\pm$ 0.095 χ^2 /NDF: 5664185.4/59

In: 289.698 $\pm$ 0.042 χ^2 /NDF:14350200.9/50

Out: 296.712 $\pm$ 0.041 χ^2 /NDF:16260277.8/56

All: 293.232 $\pm$ 0.029 χ^2 /NDF: 30624818.4/106

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 95.495 $\pm$ 34.228 χ^2 /NDF: 21.5/27

Left Out: 272.684 $\pm$ 29.221 χ^2 /NDF:27.4/24

Right Out: 84.689 $\pm$ 32.780 χ^2 /NDF: 31.4/31

Left In: 235.801 $\pm$ 30.232 χ^2 /NDF:24.6/22

Left: 254.870 $\pm$ 21.011 χ^2 /NDF: 52.8/47

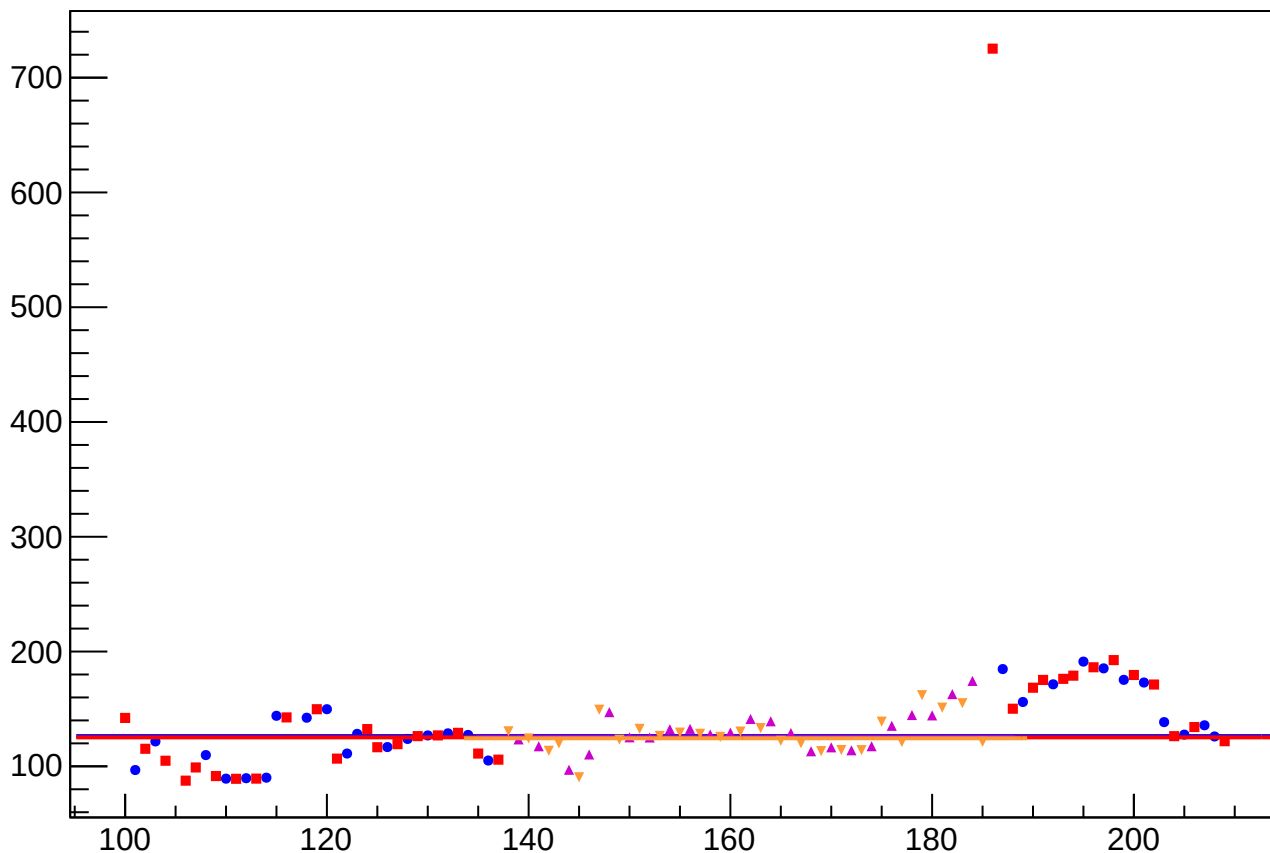
Right: 89.858 $\pm$ 23.675 χ^2 /NDF: 52.9/59

In: 174.314 $\pm$ 22.659 χ^2 /NDF:55.5/50

Out: 189.443 $\pm$ 21.813 χ^2 /NDF:77.1/56

All: 182.166 $\pm$ 15.715 χ^2 /NDF: 132.9/107

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 126.334 $\pm$ 0.024 χ^2 /NDF: 1355683.2/27

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 125.217 $\pm$ 0.023 χ^2 /NDF: 2210890.1/31

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

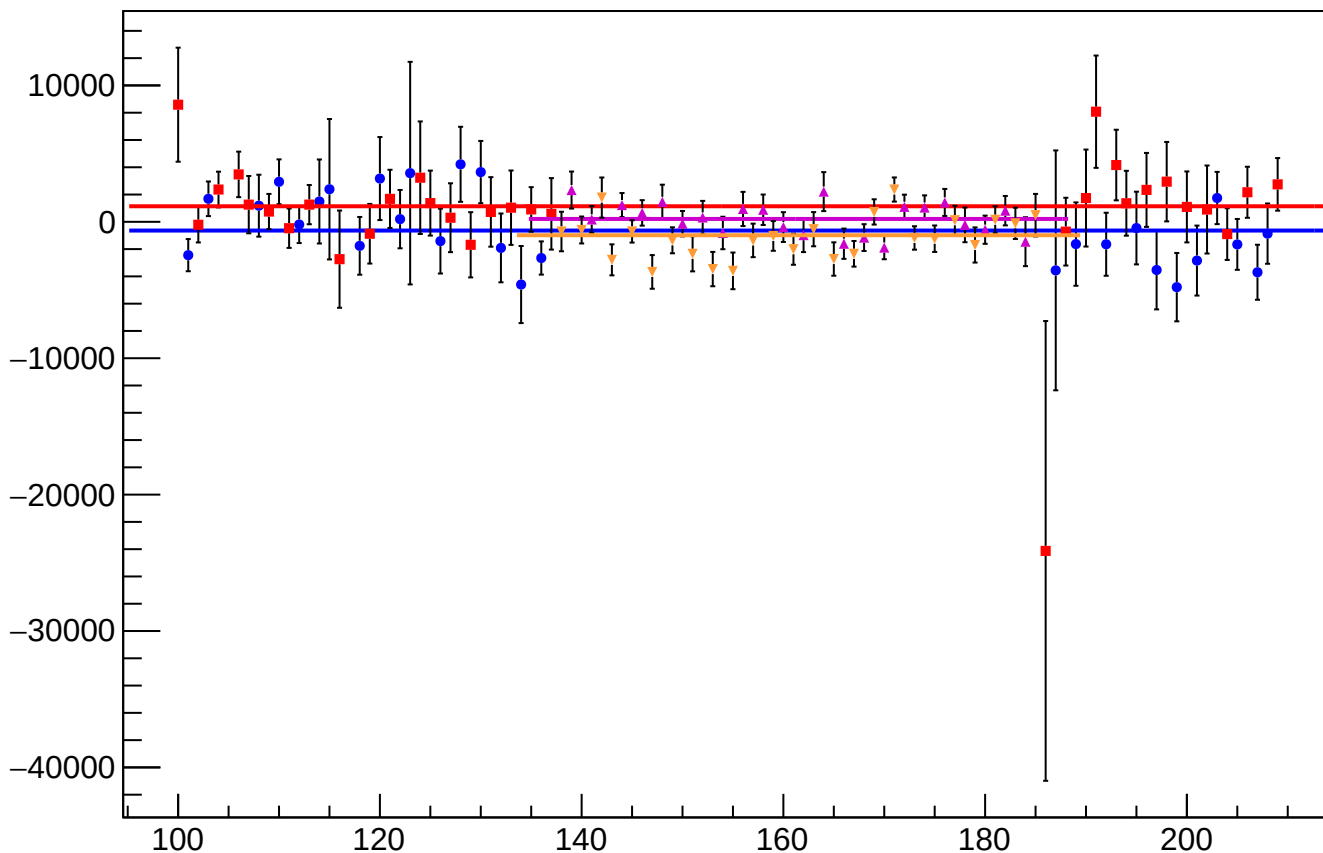
Right: 125.752 $\pm$ 0.017 χ^2 /NDF: 3567684.7/59

In: 125.700 $\pm$ 0.016 χ^2 /NDF: 1858294.6/50

Out: 124.778 $\pm$ 0.015 χ^2 /NDF: 2751266.9/56

All: 125.221 $\pm$ 0.011 χ^2 /NDF: 4611280.7/107

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -639.769 ± 392.222 χ^2/NDF : 35.0/27

Left Out: -982.839 ± 218.021 χ^2/NDF : 47.2/24

Right Out: 1140.995 ± 372.031 χ^2/NDF : 22.2/31

Left In: 211.420 ± 223.296 χ^2/NDF : 25.7/22

Left: -399.983 ± 155.996 χ^2/NDF : 87.5/47

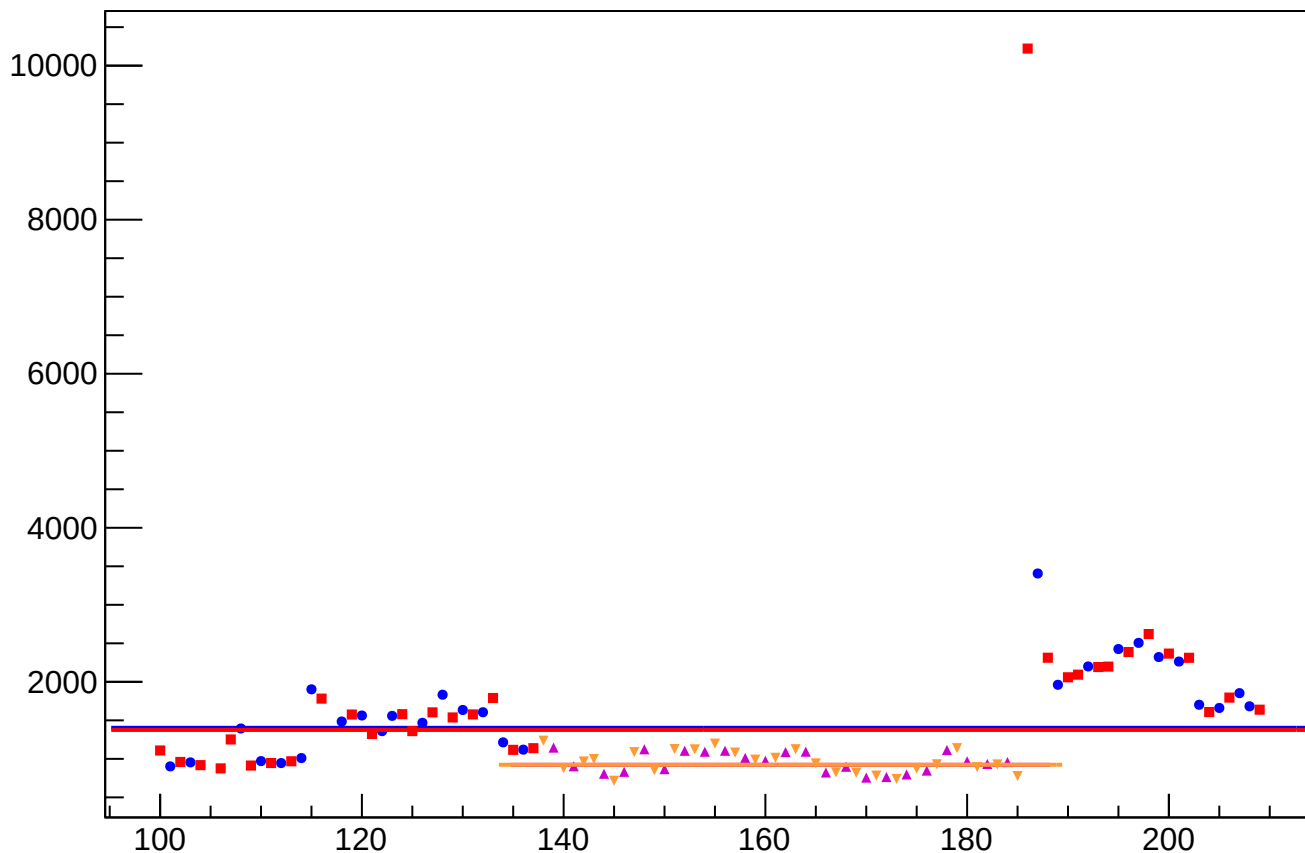
Right: 297.625 ± 269.922 χ^2/NDF : 68.1/59

In: 3.067 ± 194.052 χ^2/NDF : 64.2/50

Out: -439.909 ± 188.101 χ^2/NDF : 93.7/56

All: -225.318 ± 135.062 χ^2/NDF : 160.6/107

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1402.970+/-0.277 χ^2/NDF : 2944805.4/27

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1375.295+/-0.263 χ^2/NDF : 4115302.1/31

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

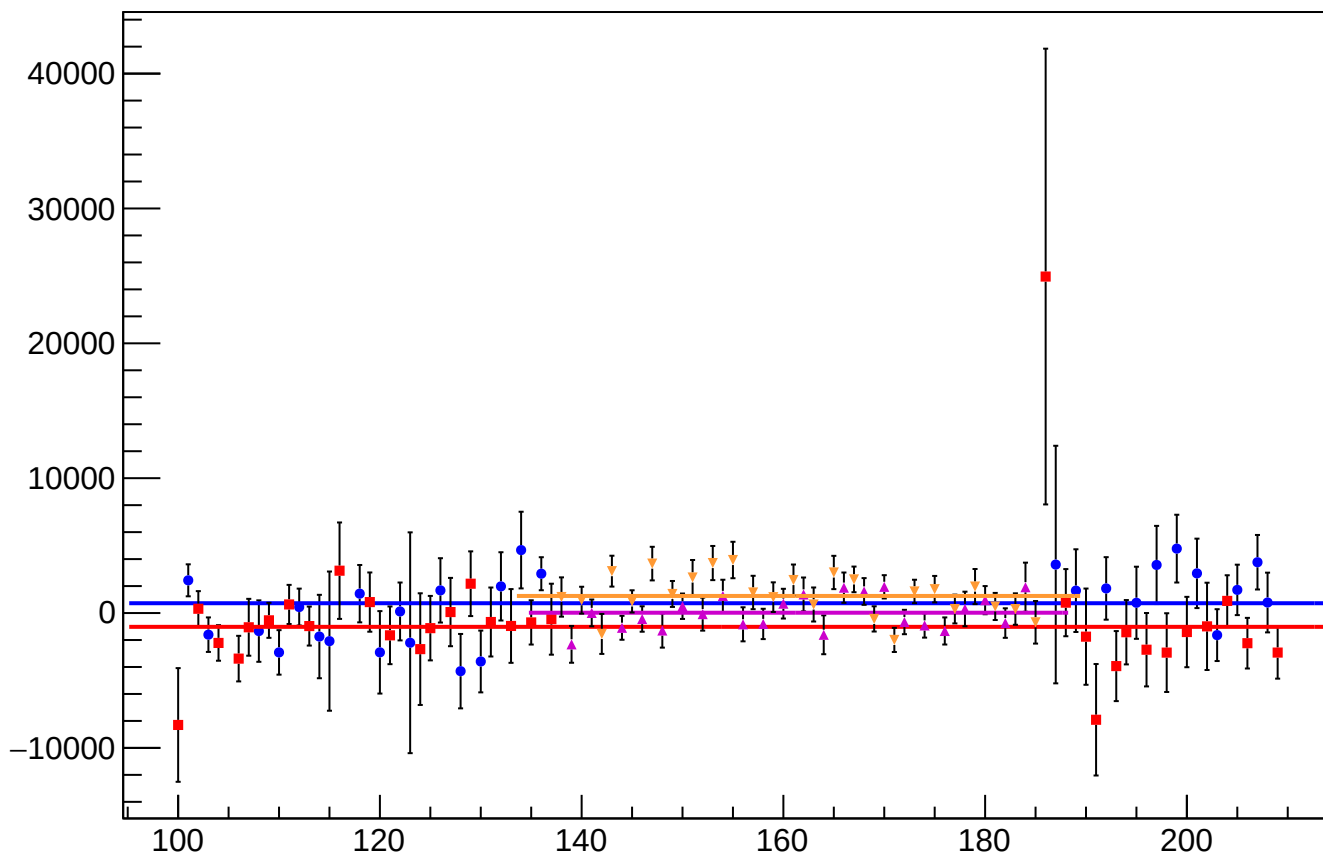
Right: 1388.402+/-0.191 χ^2/NDF : 7065348.9/59

In: 1039.916+/-0.137 χ^2/NDF : 5848515.7/50

Out: 1039.059+/-0.133 χ^2/NDF : 7152749.2/56

All: 1039.475+/-0.096 χ^2/NDF : 13001285.1/112

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 728.122 ± 393.937 χ^2/NDF : 35.0/27

Left Out: 1267.344 ± 220.133 χ^2/NDF : 44.9/24

Right Out: -1023.413 ± 373.820 χ^2/NDF : 22.9/31

Left In: 23.478 ± 225.490 χ^2/NDF : 27.2/22

Left: 660.362 ± 157.518 χ^2/NDF : 87.7/47

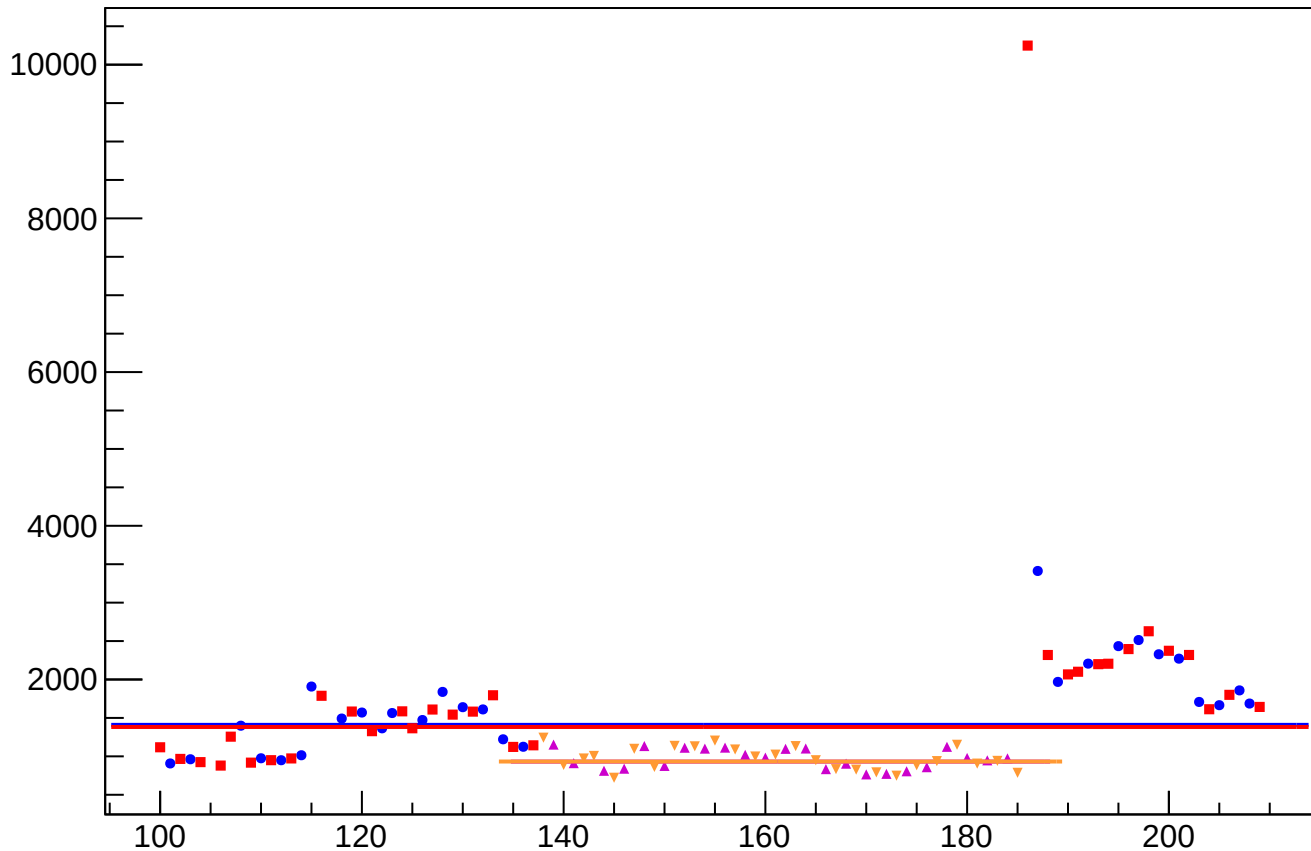
Right: -193.509 ± 271.164 χ^2/NDF : 68.2/59

In: 197.374 ± 195.698 χ^2/NDF : 64.5/50

Out: 677.508 ± 189.687 χ^2/NDF : 95.7/56

All: 444.928 ± 136.205 χ^2/NDF : 163.3/107

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1409.647+/-0.279 χ^2/NDF : 2926510.6/27

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1382.304+/-0.264 χ^2/NDF : 4092141.6/31

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

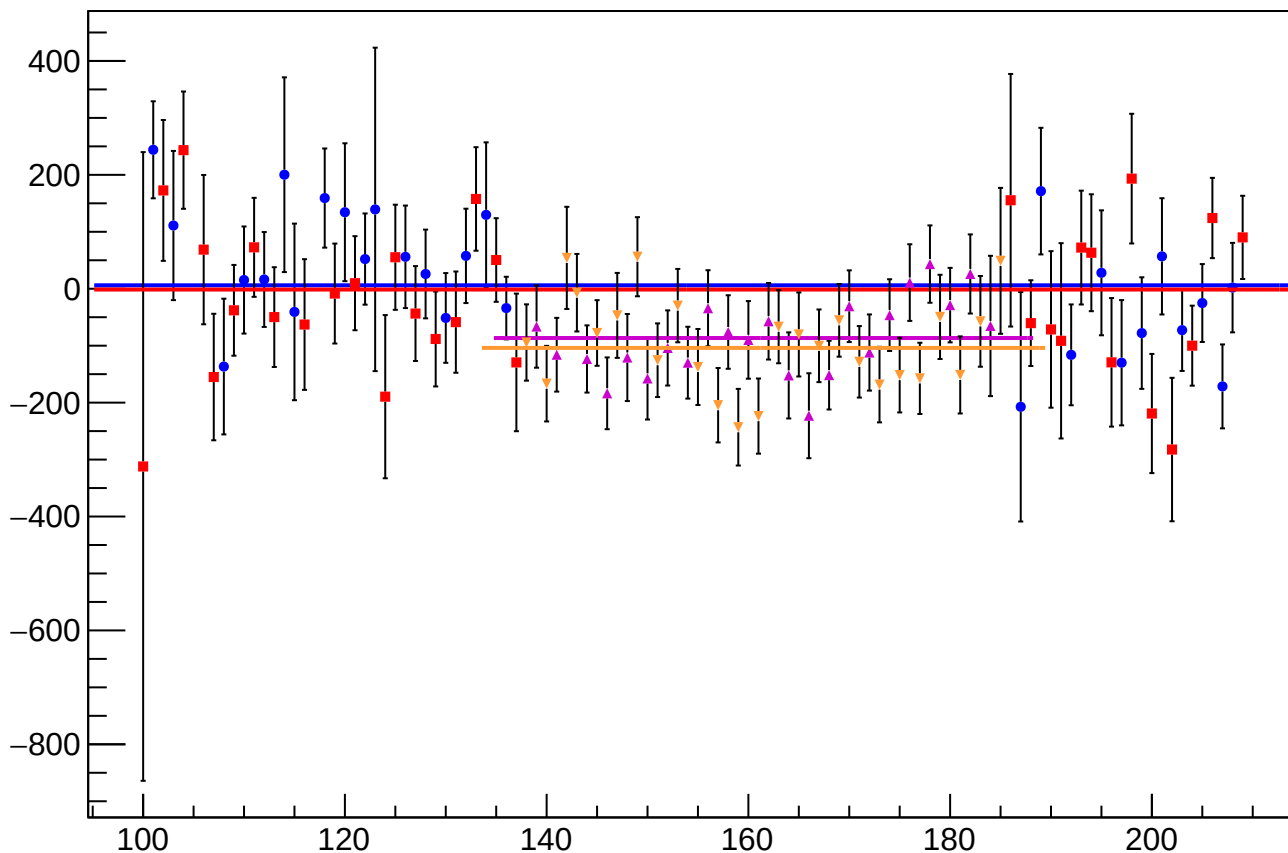
Right: 1395.259+/-0.192 χ^2/NDF : 7023722.1/59

In: 1049.494+/-0.138 χ^2/NDF : 5770320.7/50

Out: 1048.514+/-0.134 χ^2/NDF : 7069507.7/56

All: 1048.989+/-0.096 χ^2/NDF : 12839854.3/112

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 6.023 ± 17.384 χ^2/NDF : 33.8/27

Left Out: -103.899 ± 13.642 χ^2/NDF : 30.0/24

Right Out: -1.399 ± 17.124 χ^2/NDF : 43.1/31

Left In: -86.542 ± 14.120 χ^2/NDF : 21.4/22

Left: -95.520 ± 9.811 χ^2/NDF : 52.1/47

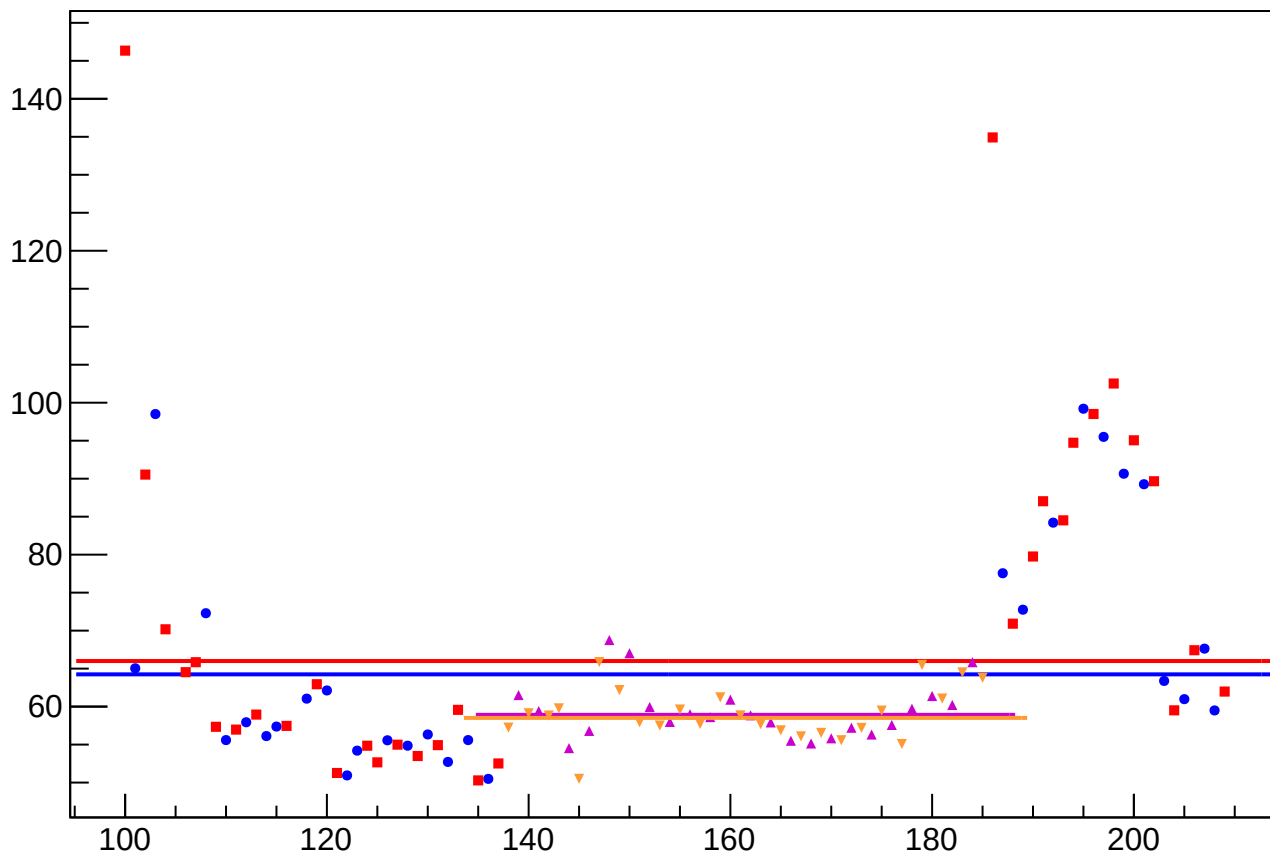
Right: 2.256 ± 12.199 χ^2/NDF : 77.0/59

In: -49.747 ± 10.960 χ^2/NDF : 72.3/50

Out: -64.102 ± 10.670 χ^2/NDF : 94.9/56

All: -57.117 ± 7.645 χ^2/NDF : 168.1/107

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.244+/-0.012 χ^2/NDF : 1253799.2/27

Left Out: 58.513+/-0.010 χ^2/NDF : 123221.6/24

Right Out: 65.998+/-0.012 χ^2/NDF : 1648920.0/31

Left In: 58.913+/-0.010 χ^2/NDF : 109968.0/22

Left: 58.706+/-0.007 χ^2/NDF : 234021.7/47

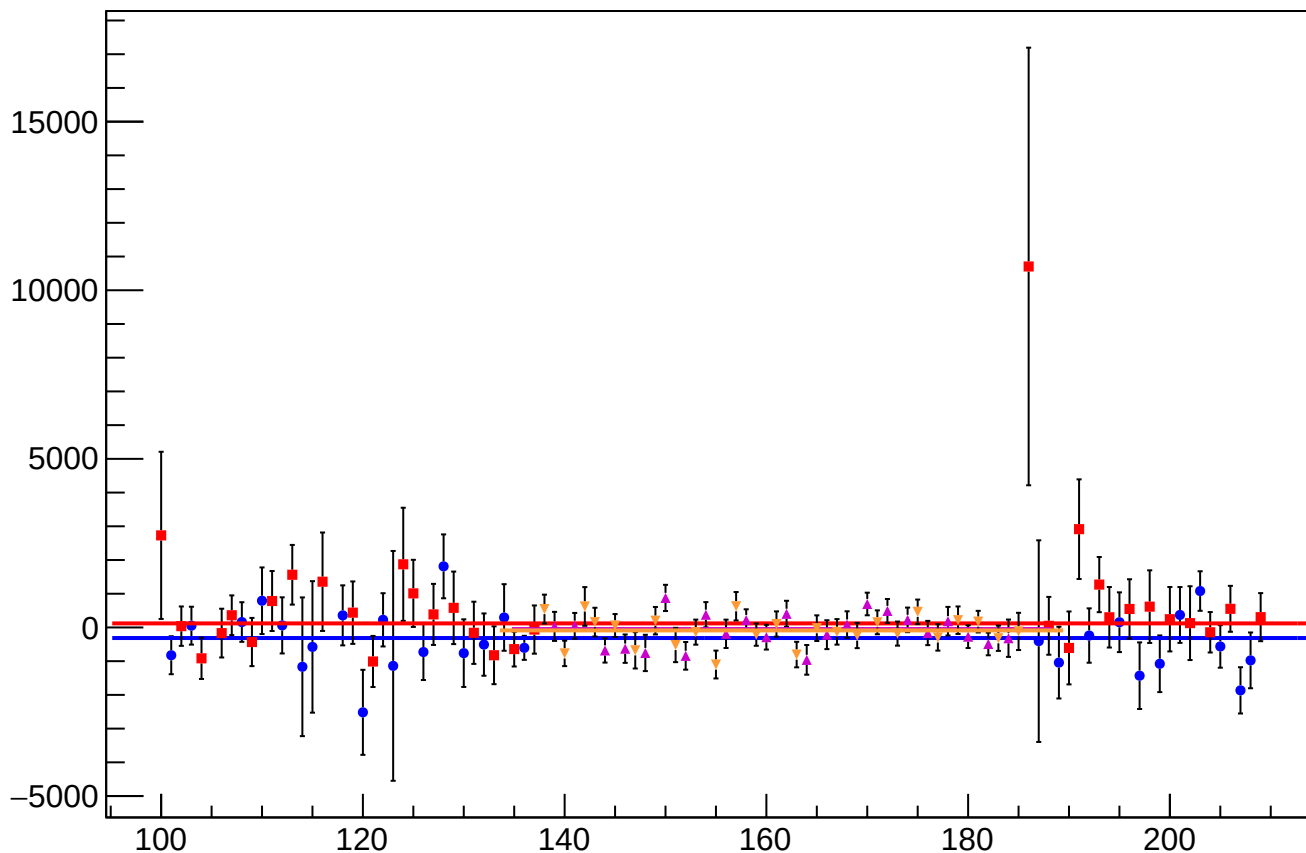
Right: 65.134+/-0.009 χ^2/NDF : 2913053.8/59

In: 61.032+/-0.008 χ^2/NDF : 1477084.0/50

Out: 61.419+/-0.008 χ^2/NDF : 2005926.9/56

All: 61.231+/-0.005 χ^2/NDF : 3484290.0/107

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -313.627 ± 147.245 $\chi^2/\text{NDF}: 29.4/27$

Left Out: -87.459 ± 78.556 $\chi^2/\text{NDF}: 27.7/24$

Right Out: 120.338 ± 146.553 $\chi^2/\text{NDF}: 26.8/31$

Left In: -48.742 ± 80.548 $\chi^2/\text{NDF}: 35.3/22$

Left: -68.585 ± 56.239 $\chi^2/\text{NDF}: 63.2/47$

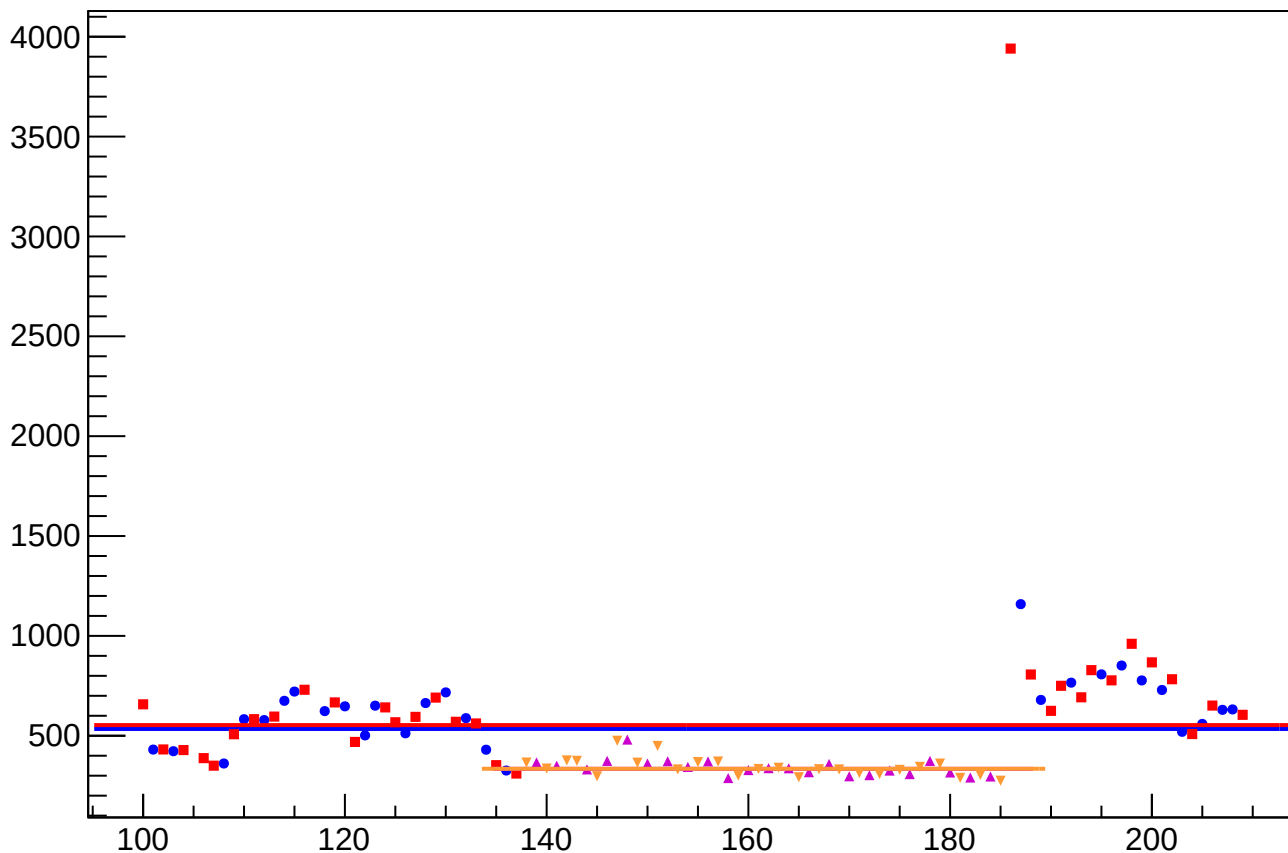
Right: -95.622 ± 103.872 $\chi^2/\text{NDF}: 60.5/59$

In: -109.751 ± 70.666 $\chi^2/\text{NDF}: 67.2/50$

Out: -41.079 ± 69.237 $\chi^2/\text{NDF}: 56.1/56$

All: -74.714 ± 49.455 $\chi^2/\text{NDF}: 123.8/107$

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 533.972 $\pm$ 0.104 χ^2 /NDF: 2254313.0/27

Left Out: 334.749 $\pm$ 0.056 χ^2 /NDF: 491370.4/24

Right Out: 553.326 $\pm$ 0.104 χ^2 /NDF: 2985050.1/31

Left In: 334.147 $\pm$ 0.057 χ^2 /NDF: 397200.6/22

Left: 334.455 $\pm$ 0.040 χ^2 /NDF: 888628.3/47

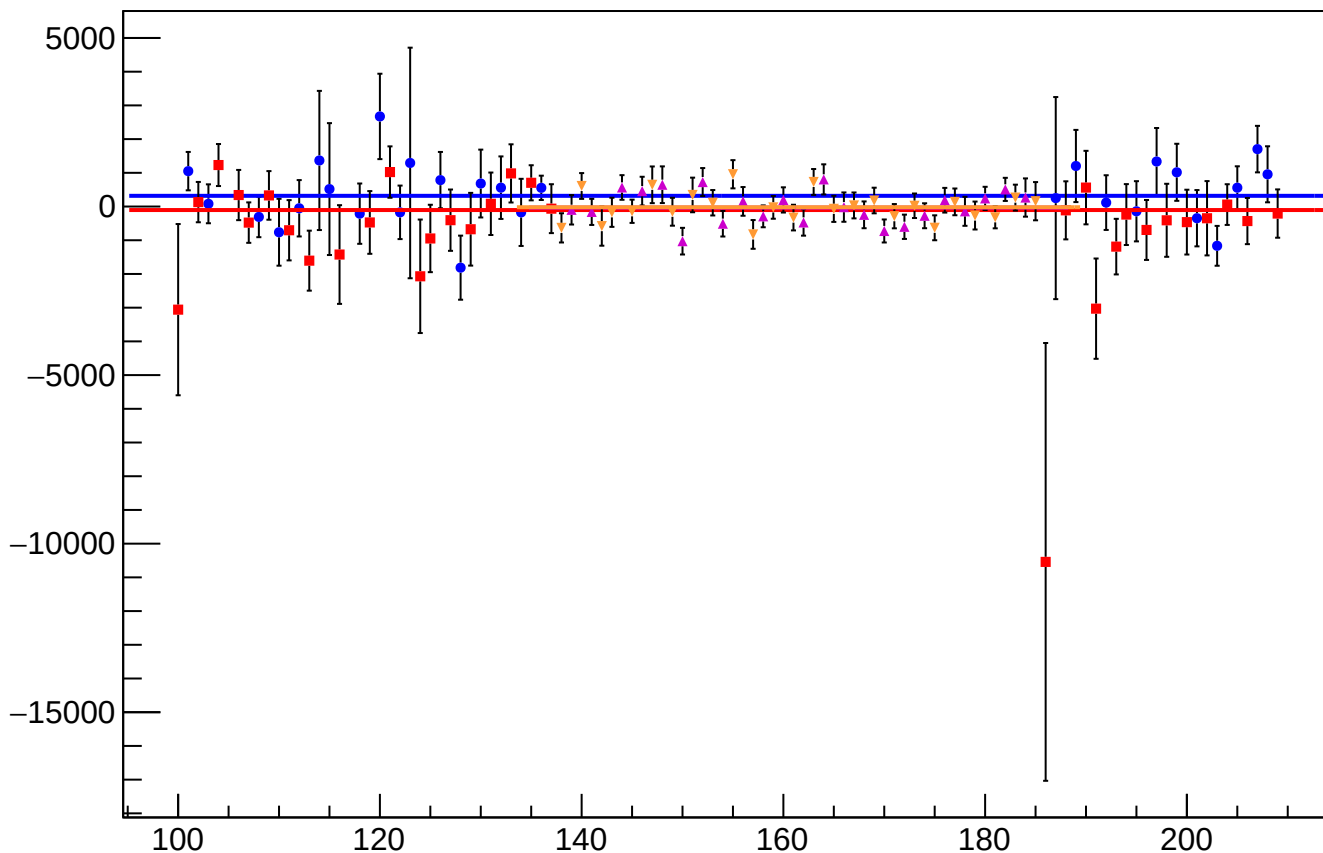
Right: 543.695 $\pm$ 0.073 χ^2 /NDF: 5256721.5/59

In: 380.171 $\pm$ 0.050 χ^2 /NDF: 5486565.7/50

Out: 383.535 $\pm$ 0.049 χ^2 /NDF: 6932362.6/56

All: 381.887 $\pm$ 0.035 χ^2 /NDF: 12421240.5/106

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 317.683 ± 148.710 $\chi^2/\text{NDF}: 29.5/27$

Left Out: -20.895 ± 79.812 $\chi^2/\text{NDF}: 27.2/24$

Right Out: -104.025 ± 148.059 $\chi^2/\text{NDF}: 29.8/31$

Left In: -31.800 ± 81.839 $\chi^2/\text{NDF}: 34.0/22$

Left: -26.211 ± 57.139 $\chi^2/\text{NDF}: 61.3/47$

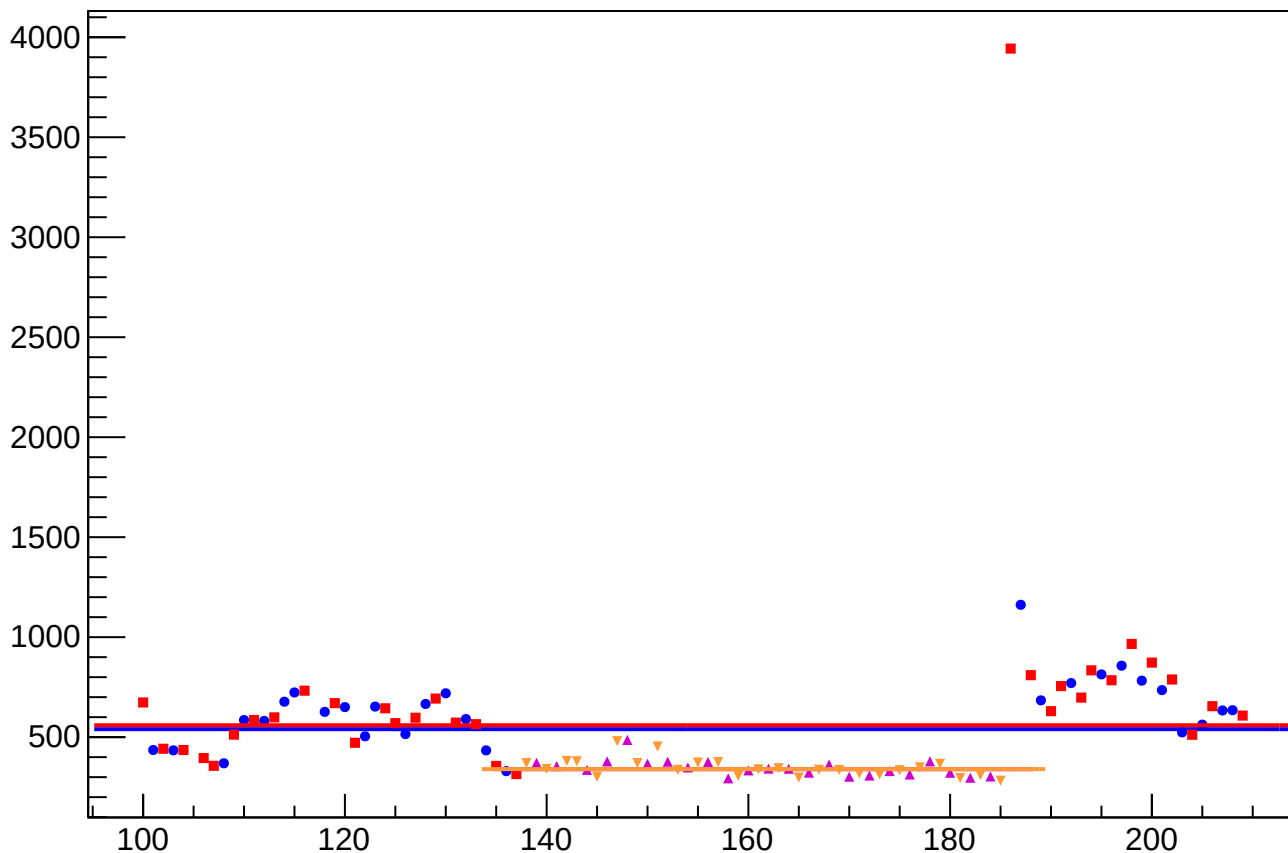
Right: 105.905 ± 104.923 $\chi^2/\text{NDF}: 63.3/59$

In: 49.441 ± 71.699 $\chi^2/\text{NDF}: 67.8/50$

Out: -39.612 ± 70.255 $\chi^2/\text{NDF}: 57.2/56$

All: 4.008 ± 50.180 $\chi^2/\text{NDF}: 125.8/107$

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 539.936+/-0.105 χ^2/NDF : 2193969.5/27

Left Out: 340.238+/-0.056 χ^2/NDF : 468863.6/24

Right Out: 559.586+/-0.105 χ^2/NDF : 2919471.1/31

Left In: 339.621+/-0.058 χ^2/NDF : 379808.1/22

Left: 339.937+/-0.040 χ^2/NDF : 848729.8/47

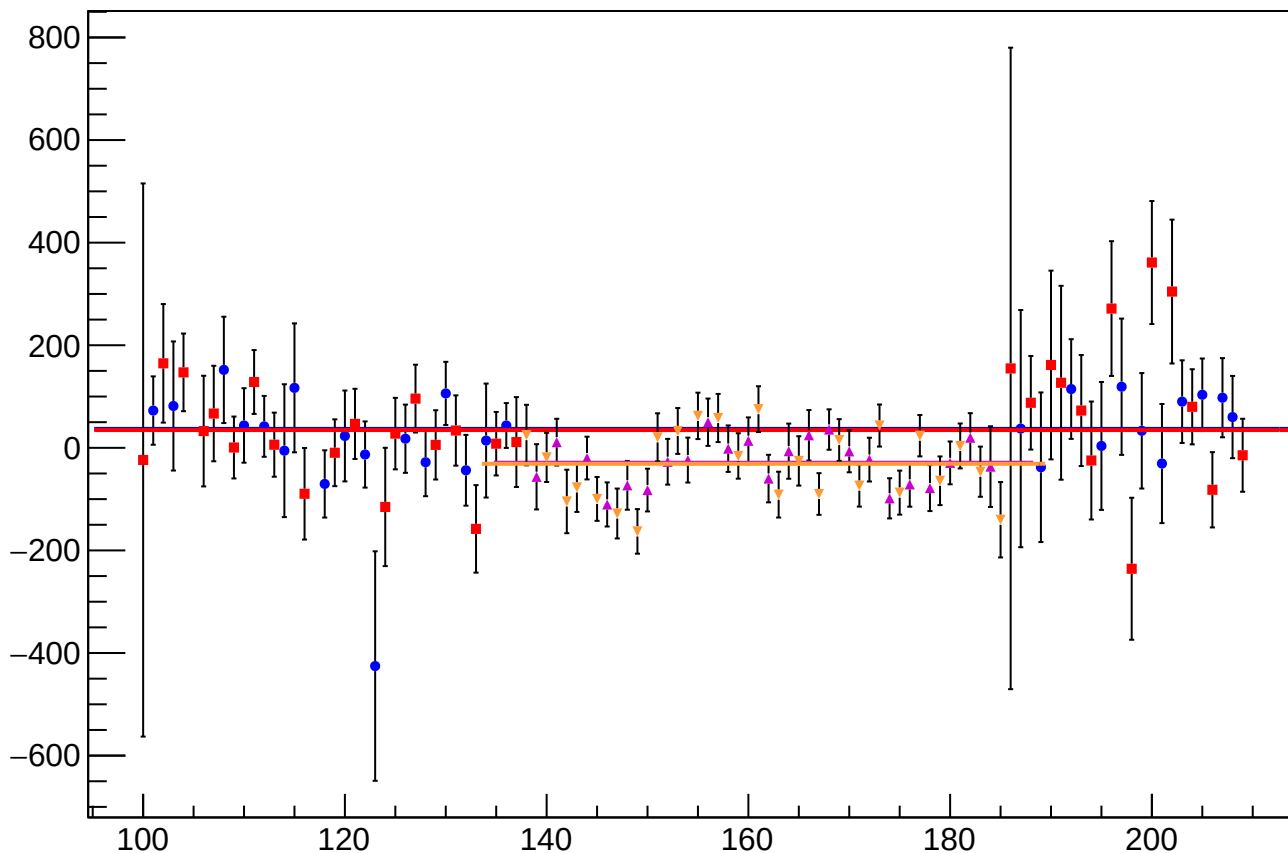
Right: 549.804+/-0.074 χ^2/NDF : 5130975.5/59

In: 386.186+/-0.051 χ^2/NDF : 5359141.7/50

Out: 389.625+/-0.050 χ^2/NDF : 6789604.0/56

All: 387.940+/-0.035 χ^2/NDF : 12151091.9/106

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 36.885 $\pm$ 15.331 χ^2 /NDF: 17.2/27

Left Out: -31.063 $\pm$ 9.170 χ^2 /NDF:52.6/24

Right Out: 34.672 $\pm$ 15.023 χ^2 /NDF: 40.0/31

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

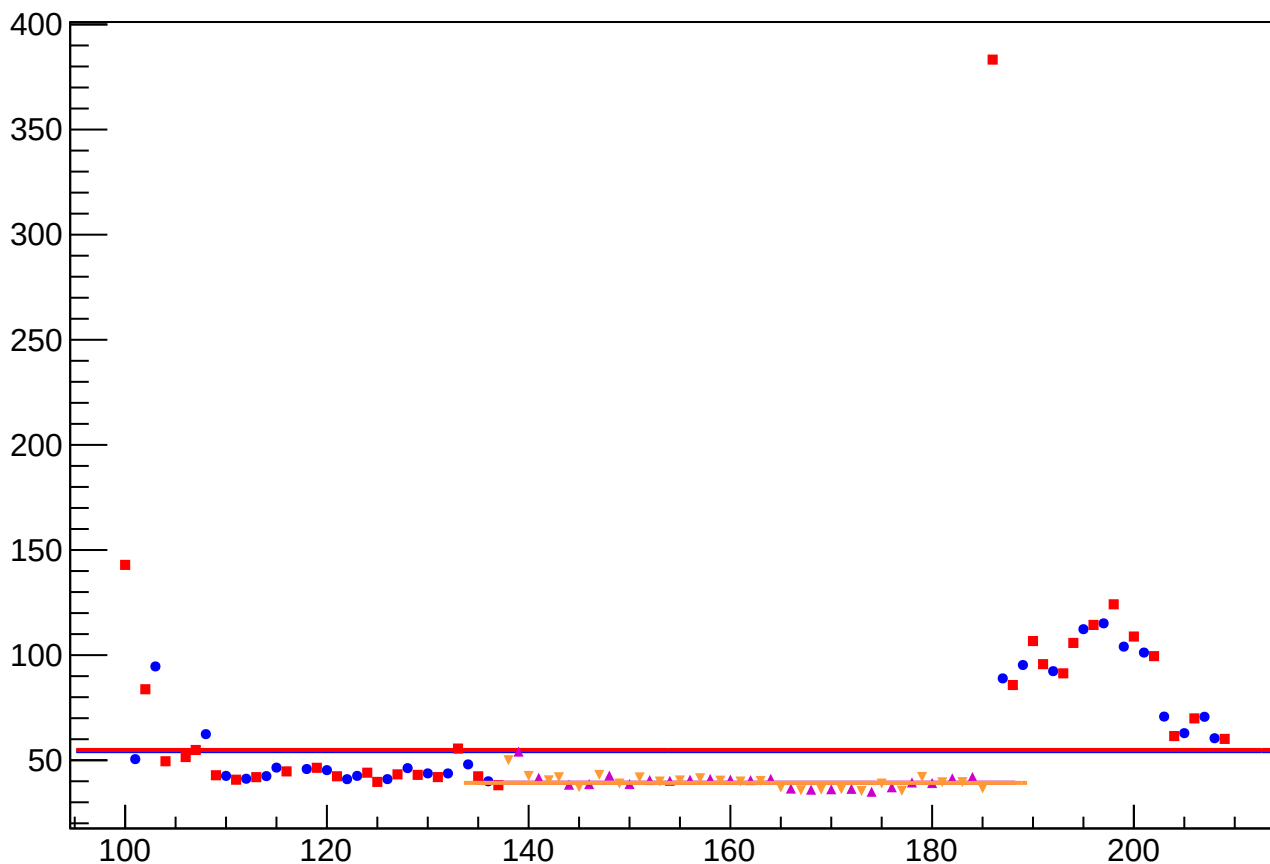
Right: 35.756 $\pm$ 10.730 χ^2 /NDF: 57.2/59

In: -10.901 $\pm$ 8.044 χ^2 /NDF:53.1/50

Out: -13.221 $\pm$ 7.827 χ^2 /NDF:106.5/56

All: -12.093 $\pm$ 5.610 χ^2 /NDF: 159.6/107

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 54.318 $\pm$ 0.011 χ^2 /NDF: 3273573.8/27

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 54.898 $\pm$ 0.011 χ^2 /NDF: 4329858.5/31

Left In: 39.338 $\pm$ 0.007 χ^2 /NDF: 215671.3/22

Left: 39.285 $\pm$ 0.005 χ^2 /NDF: 417755.0/47

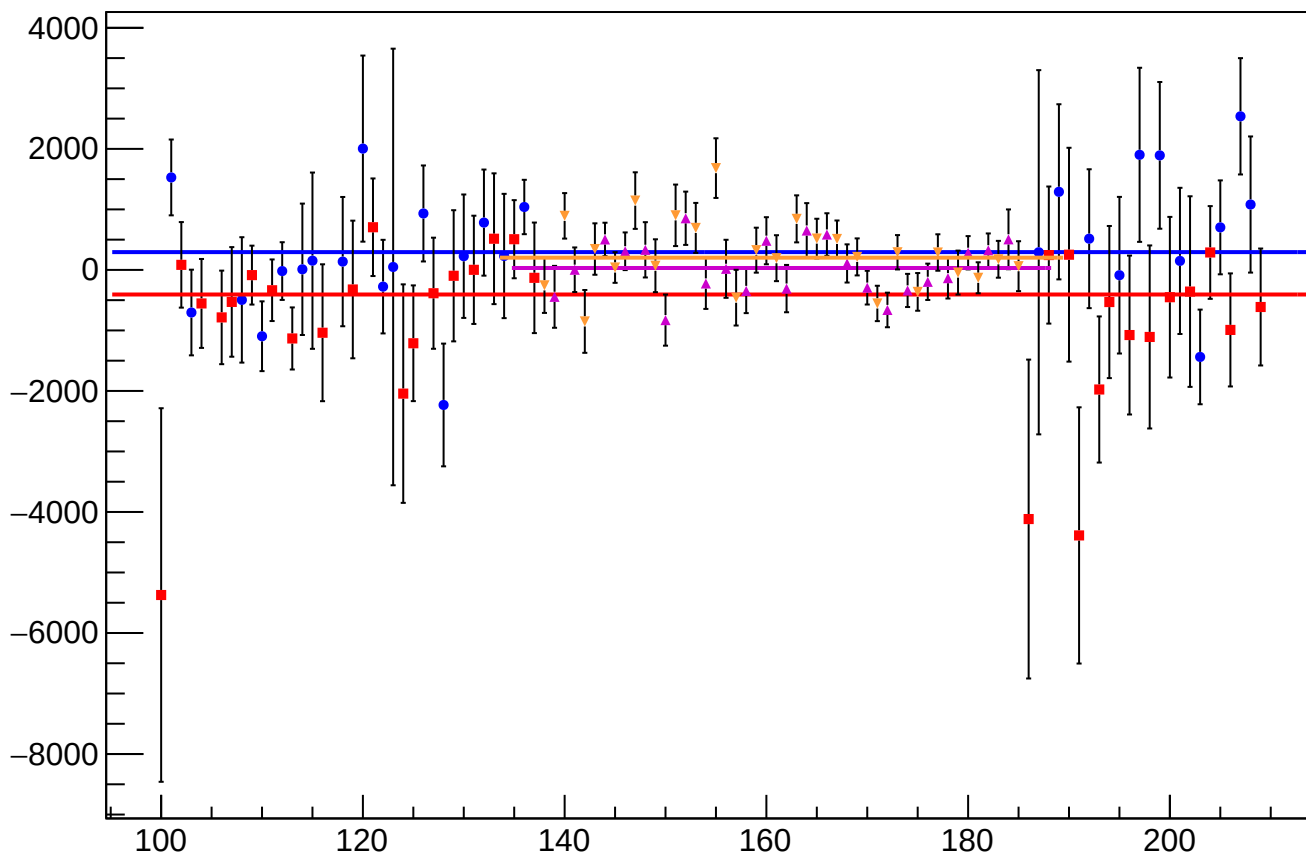
Right: 54.614 $\pm$ 0.008 χ^2 /NDF: 7604895.9/59

In: 43.462 $\pm$ 0.006 χ^2 /NDF: 4872889.5/50

Out: 43.486 $\pm$ 0.006 χ^2 /NDF: 6115779.3/56

All: 43.475 $\pm$ 0.004 χ^2 /NDF: 10988678.2/107

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 294.098 $\pm$ 164.522 χ^2 /NDF: 39.2/27

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -406.362 $\pm$ 158.781 χ^2 /NDF: 22.1/31

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

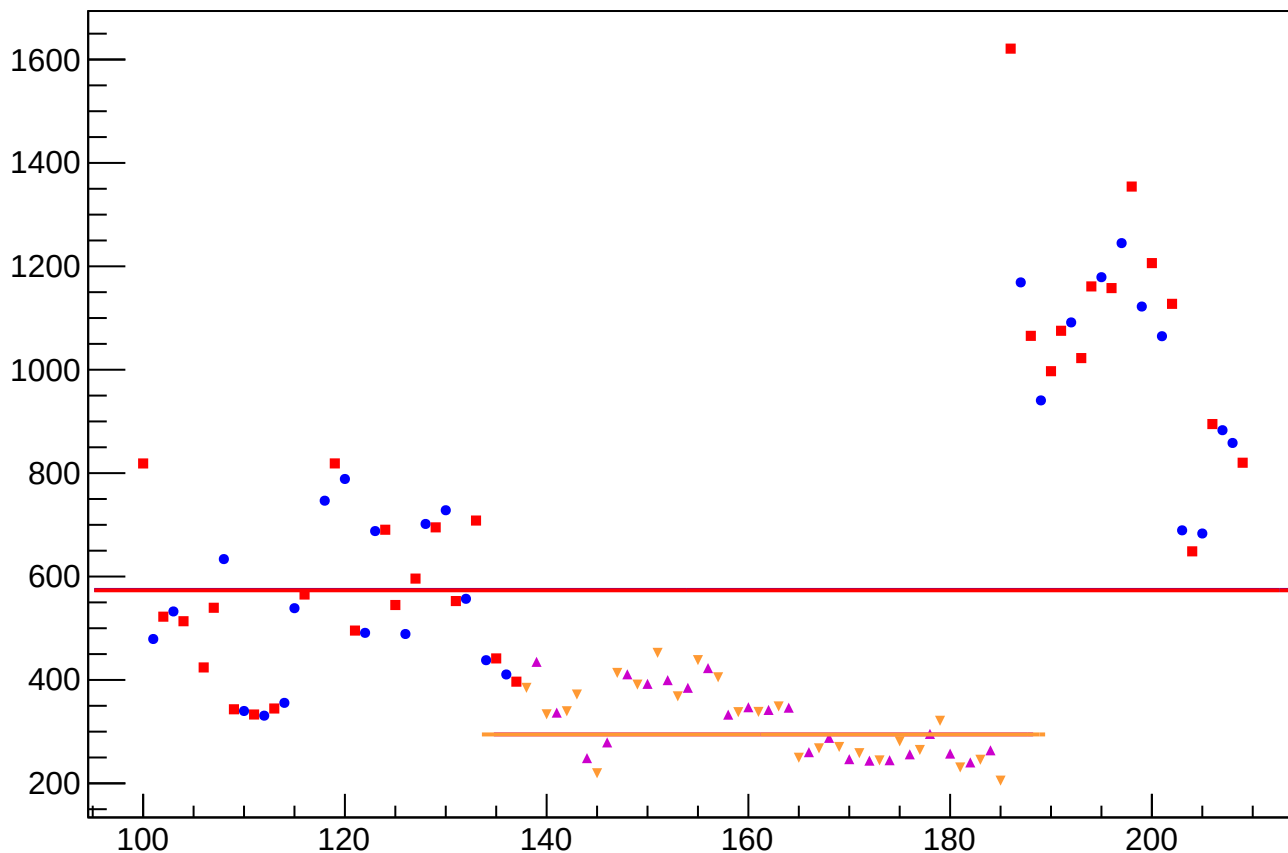
Right: -68.568 $\pm$ 114.251 χ^2 /NDF: 70.7/59

In: 73.848 $\pm$ 66.037 χ^2 /NDF:74.7/50

Out: 102.300 $\pm$ 64.378 χ^2 /NDF:79.2/56

All: 88.436 $\pm$ 46.097 χ^2 /NDF: 154.0/107

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 574.071+/-0.116 χ^2/NDF : 4150980.5/27

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 573.425+/-0.112 χ^2/NDF : 5396806.2/31

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

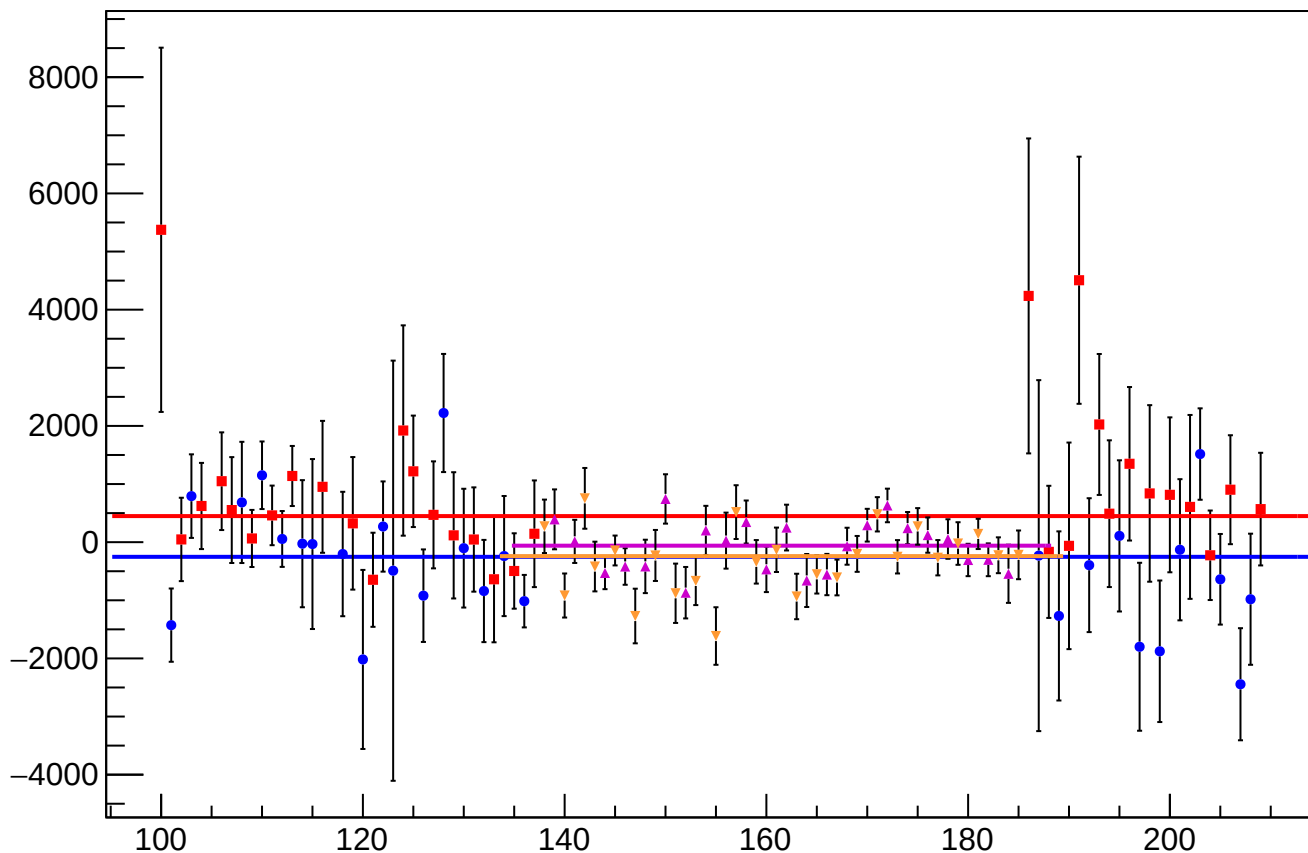
Right: 573.737+/-0.081 χ^2/NDF : 9547802.8/59

In: 339.728+/-0.047 χ^2/NDF : 10285346.5/50

Out: 340.429+/-0.046 χ^2/NDF : 12231081.6/56

All: 340.087+/-0.033 χ^2/NDF : 22516543.5/100

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -252.100 $\pm$ 165.472 χ^2/NDF : 38.8/27

Left Out: -240.357 $\pm$ 71.100 χ^2/NDF : 42.9/24

Right Out: 448.708 $\pm$ 160.237 χ^2/NDF : 21.9/31

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

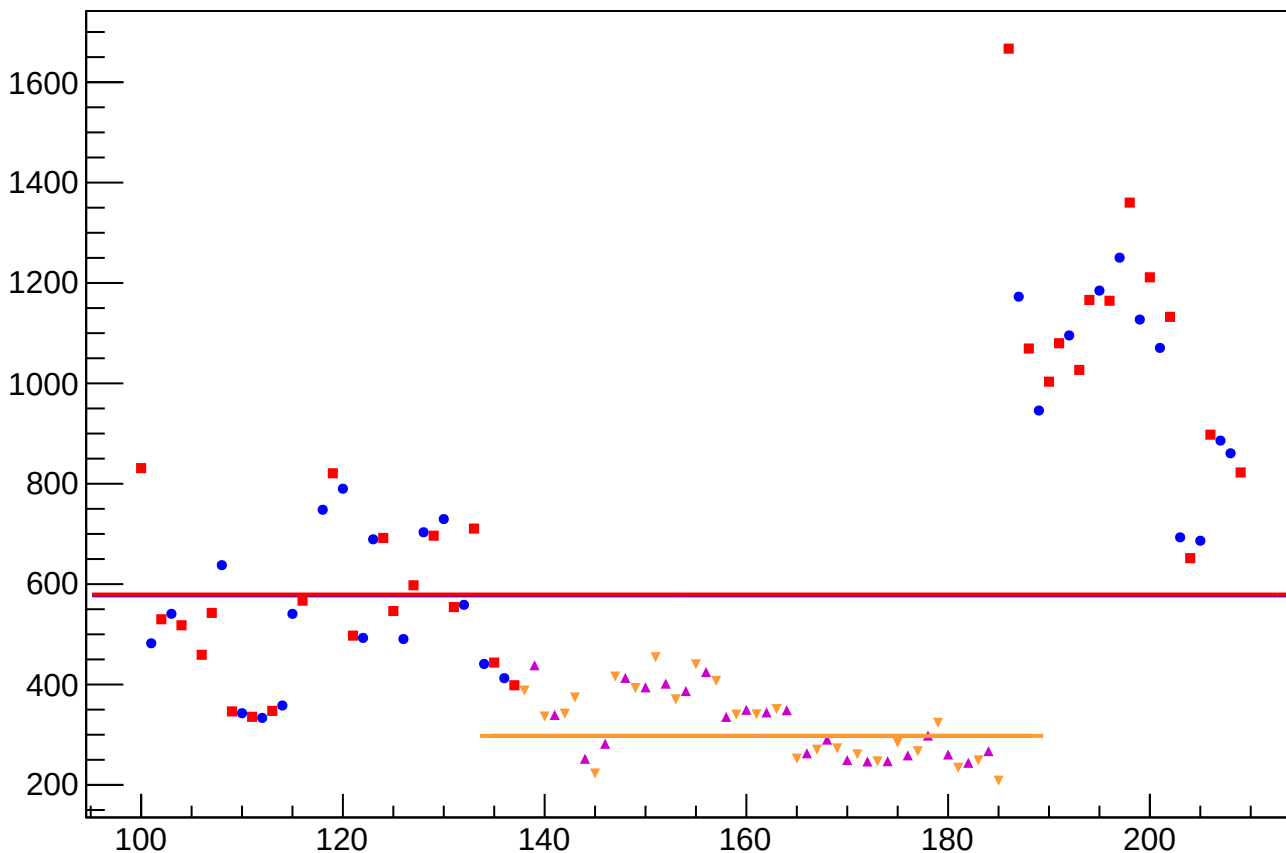
Right: 109.566 $\pm$ 115.111 χ^2/NDF : 70.0/59

In: -91.420 $\pm$ 66.627 χ^2/NDF : 70.8/50

Out: -127.005 $\pm$ 64.990 χ^2/NDF : 80.3/56

All: -109.655 $\pm$ 46.523 χ^2/NDF : 151.3/107

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 577.676 $\pm$ 0.117 χ^2 /NDF: 4127994.7/27

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF:1637757.8/24

Right Out: 579.285 $\pm$ 0.113 χ^2 /NDF: 5338593.4/31

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

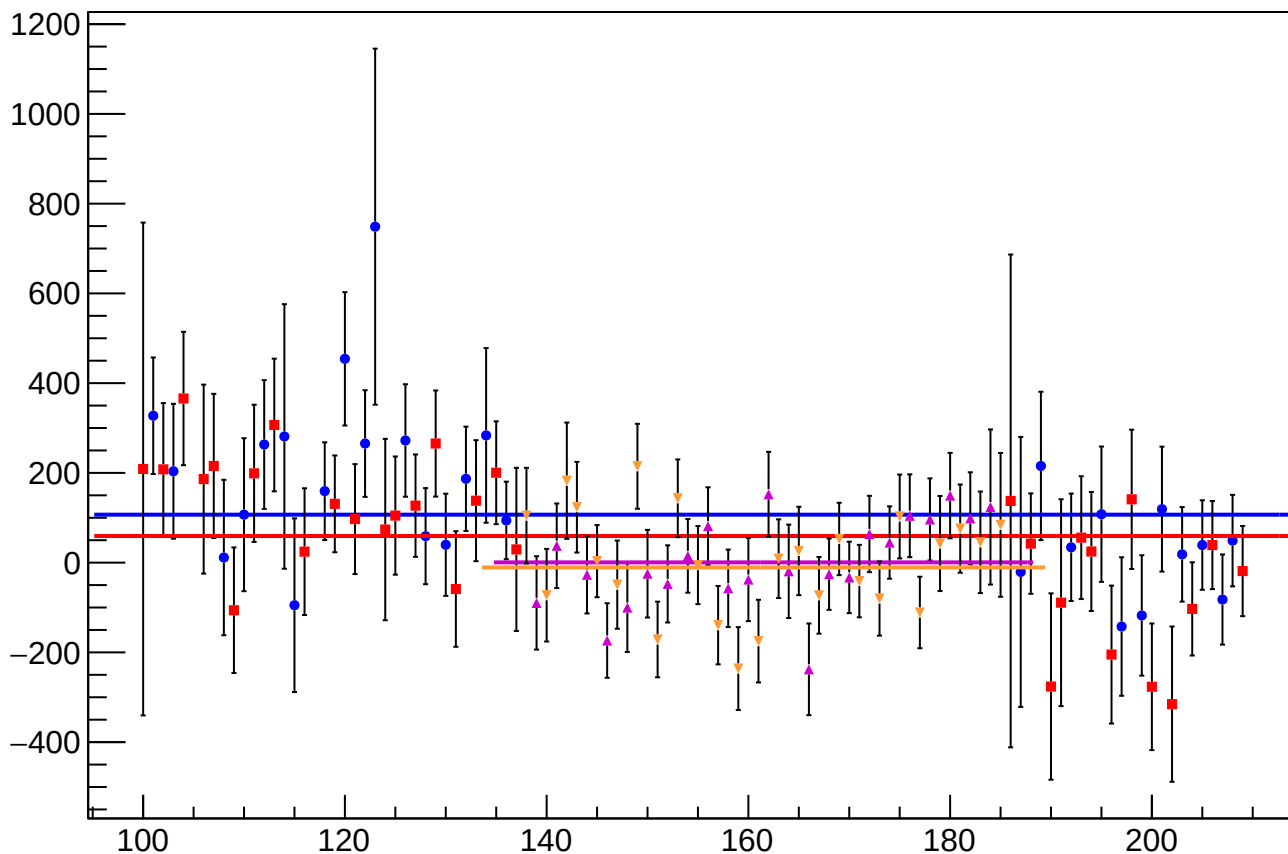
Right: 578.507 $\pm$ 0.081 χ^2 /NDF: 9466685.6/59

In: 343.090 $\pm$ 0.047 χ^2 /NDF:10191676.6/50

Out: 343.948 $\pm$ 0.046 χ^2 /NDF:12139814.0/56

All: 343.530 $\pm$ 0.033 χ^2 /NDF: 22331660.5/10

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 106.899 ± 24.811 χ^2/NDF : 31.4/27

Left Out: -10.667 ± 18.610 χ^2/NDF : 36.3/24

Right Out: 59.329 ± 24.628 χ^2/NDF : 38.3/31

Left In: 0.575 ± 19.091 χ^2/NDF : 23.8/22

Left: -5.190 ± 13.326 χ^2/NDF : 60.3/47

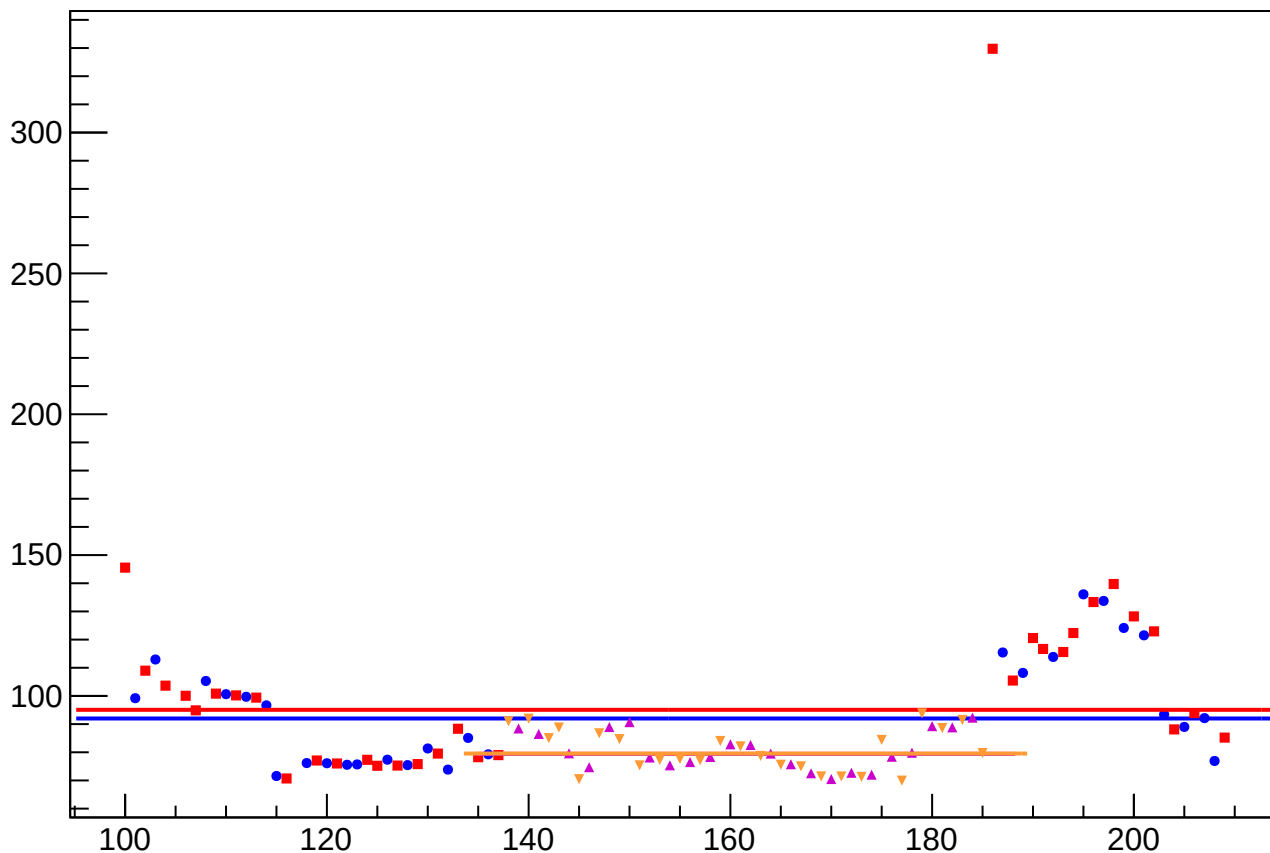
Right: 82.938 ± 17.479 χ^2/NDF : 71.5/59

In: 40.116 ± 15.131 χ^2/NDF : 66.7/50

Out: 14.773 ± 14.848 χ^2/NDF : 79.8/56

All: 27.205 ± 10.597 χ^2/NDF : 147.9/107

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 91.996 $\pm$ 0.018 χ^2 /NDF: 1050128.8/27

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF: 309075.2/24

Right Out: 95.072 $\pm$ 0.017 χ^2 /NDF: 1520445.3/31

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

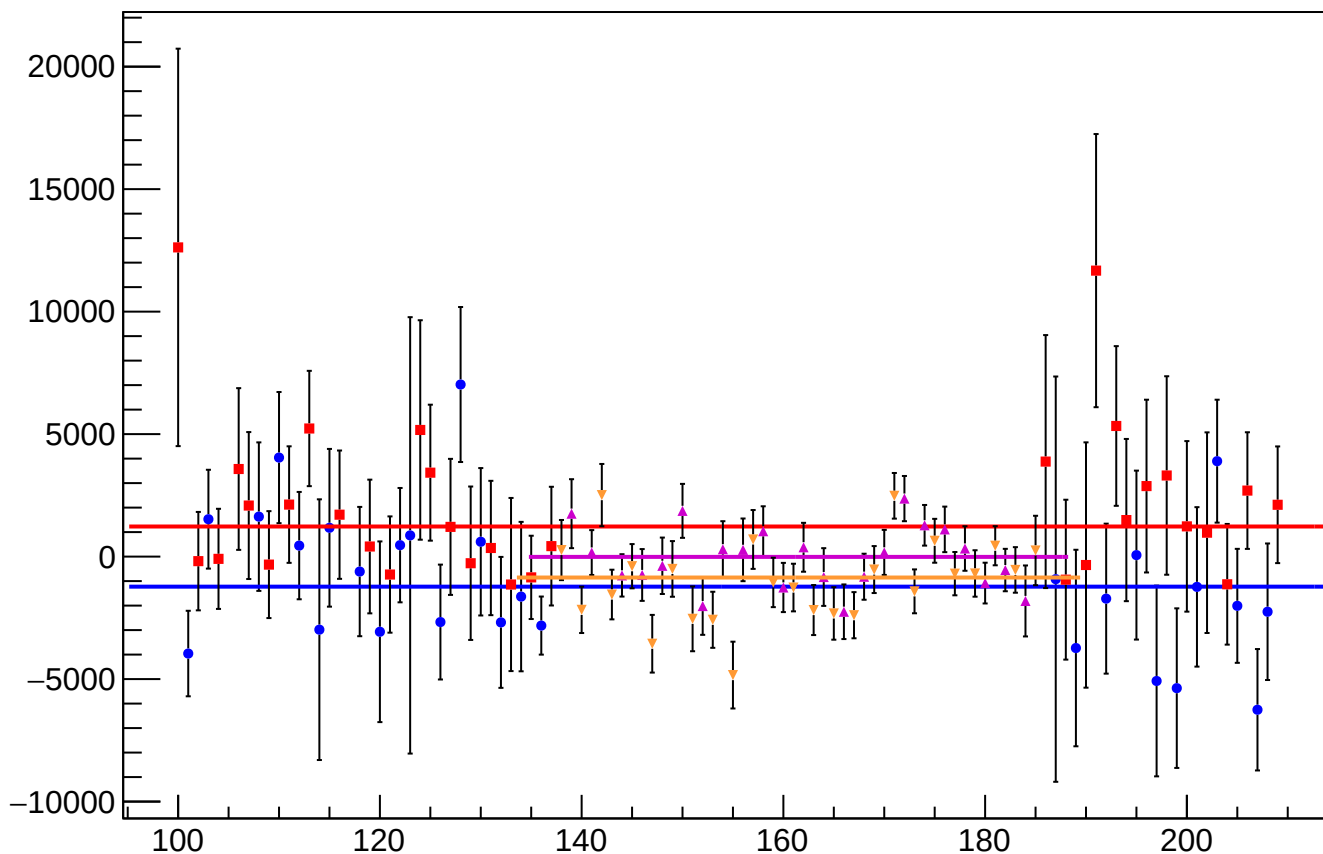
Right: 93.545 $\pm$ 0.012 χ^2 /NDF: 2586065.0/59

In: 84.107 $\pm$ 0.011 χ^2 /NDF: 1584444.2/50

Out: 85.192 $\pm$ 0.010 χ^2 /NDF: 2335173.1/56

All: 84.660 $\pm$ 0.007 χ^2 /NDF: 3924858.6/107

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1226.774 ± 494.802 $\chi^2/\text{NDF}: 32.6/27$

Left Out: -854.130 ± 204.090 $\chi^2/\text{NDF}: 56.0/24$

Right Out: 1228.545 ± 496.242 $\chi^2/\text{NDF}: 19.4/31$

Left In: -11.687 ± 210.073 $\chi^2/\text{NDF}: 31.2/22$

Left: -445.076 ± 146.383 $\chi^2/\text{NDF}: 95.5/47$

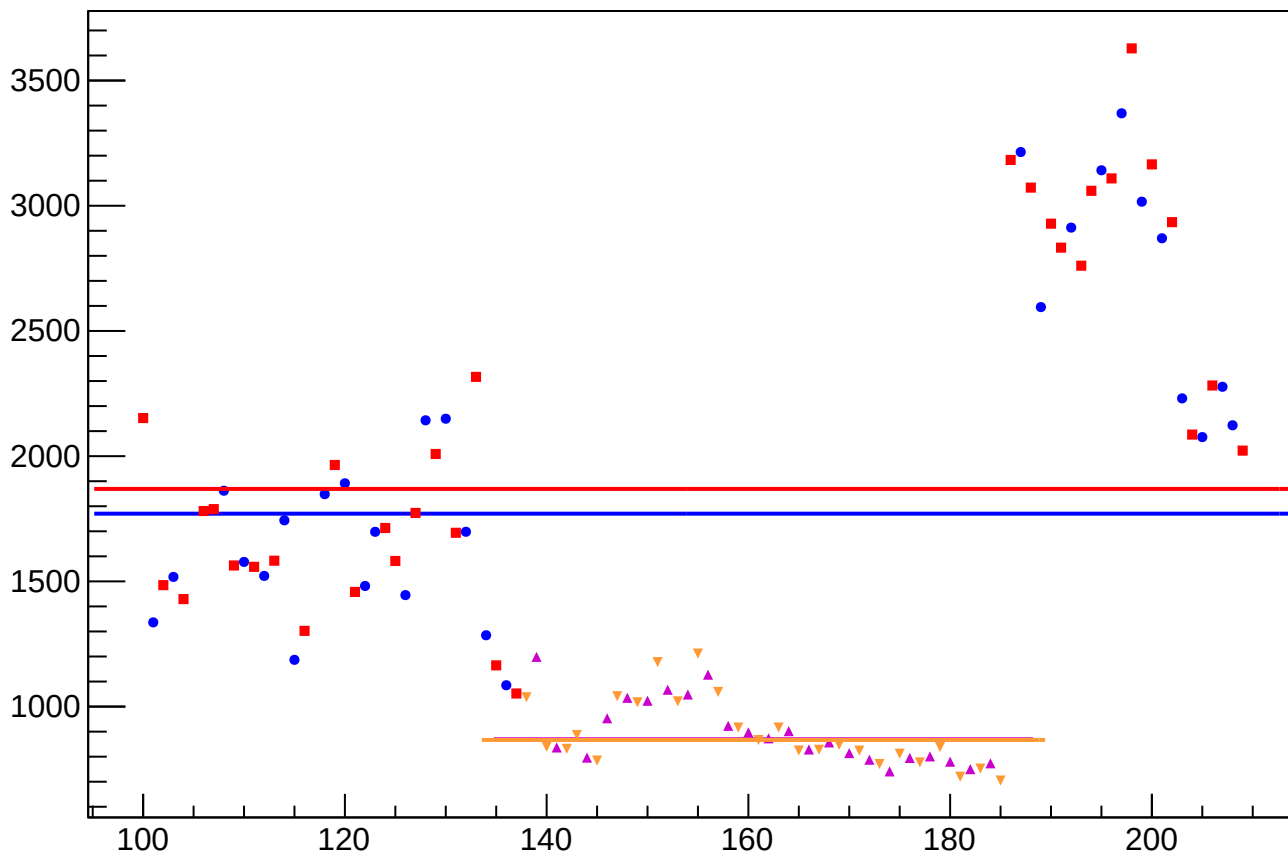
Right: -2.681 ± 350.386 $\chi^2/\text{NDF}: 64.3/59$

In: -197.259 ± 193.367 $\chi^2/\text{NDF}: 68.9/50$

Out: -552.822 ± 188.750 $\chi^2/\text{NDF}: 90.5/56$

All: -379.335 ± 135.069 $\chi^2/\text{NDF}: 161.1/107$

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1770.349 $\pm$ 0.350 χ^2 /NDF: 2927732.1/27

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1869.260 $\pm$ 0.351 χ^2 /NDF: 3151451.4/31

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

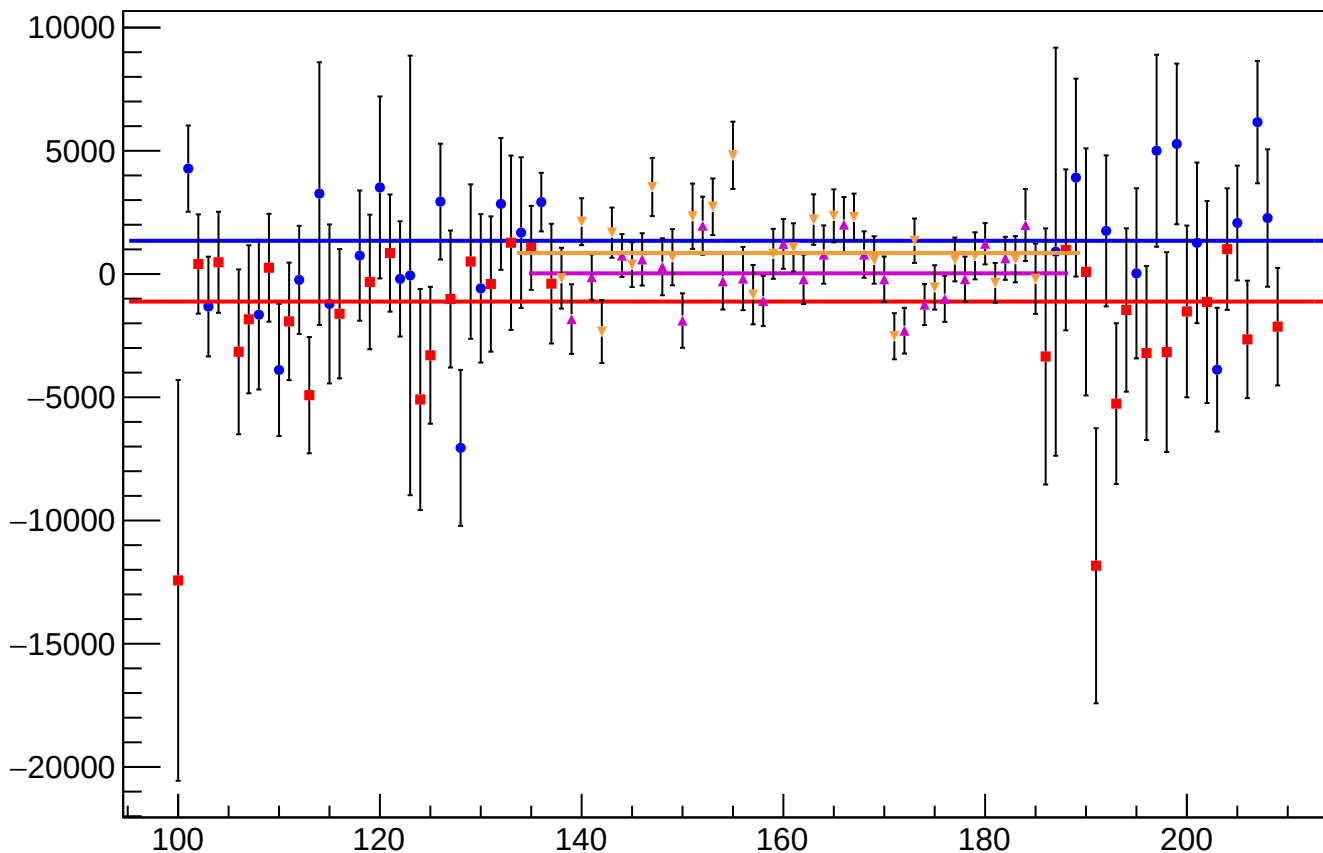
Right: 1819.661 $\pm$ 0.248 χ^2 /NDF: 6119027.3/59

In: 1007.138 $\pm$ 0.137 χ^2 /NDF: 9126081.0/50

Out: 1011.909 $\pm$ 0.133 χ^2 /NDF: 10792739.2/56

All: 1009.582 $\pm$ 0.096 χ^2 /NDF: 19919443.6/112

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1348.782 ± 495.661 $\chi^2/\text{NDF}: 32.7/27$

Left Out: 855.664 ± 205.047 $\chi^2/\text{NDF}: 54.1/24$

Right Out: -1117.427 ± 497.182 $\chi^2/\text{NDF}: 19.3/31$

Left In: 28.553 ± 211.034 $\chi^2/\text{NDF}: 29.7/22$

Left: 454.007 ± 147.061 $\chi^2/\text{NDF}: 91.7/47$

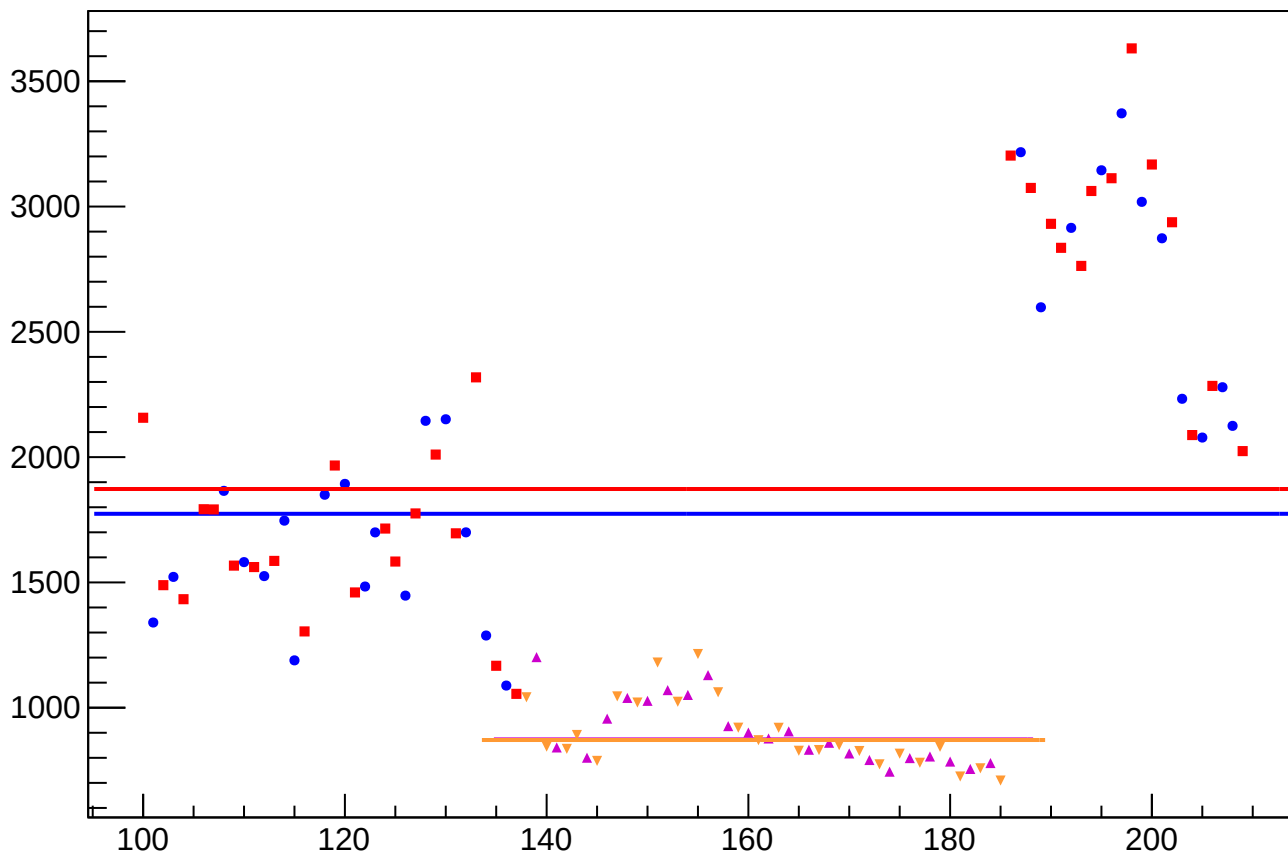
Right: 119.456 ± 351.021 $\chi^2/\text{NDF}: 64.3/59$

In: 231.150 ± 194.168 $\chi^2/\text{NDF}: 68.4/50$

Out: 568.848 ± 189.559 $\chi^2/\text{NDF}: 86.8/56$

All: 404.054 ± 135.638 $\chi^2/\text{NDF}: 156.8/107$

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1773.850 $\pm$ 0.350 χ^2 /NDF: 2916018.6/27

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1872.822 $\pm$ 0.352 χ^2 /NDF: 3143196.4/31

Left In: 873.675 $\pm$ 0.149 χ^2 /NDF: 573822.5/22

Left: 872.355 $\pm$ 0.104 χ^2 /NDF: 1225725.6/47

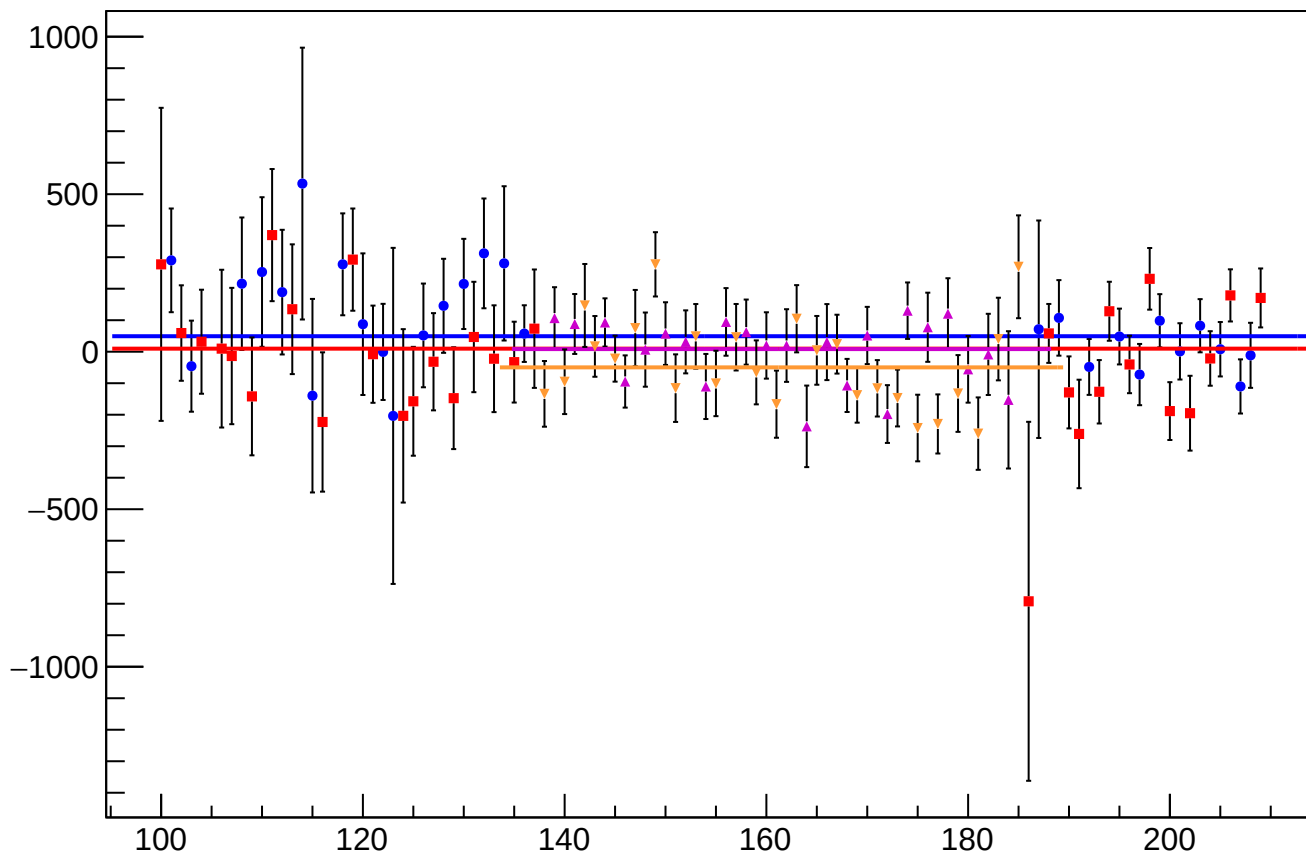
Right: 1823.184 $\pm$ 0.248 χ^2 /NDF: 6098964.2/59

In: 1011.813 $\pm$ 0.137 χ^2 /NDF: 9074084.7/50

Out: 1016.722 $\pm$ 0.134 χ^2 /NDF: 10733486.2/56

All: 1014.326 $\pm$ 0.096 χ^2 /NDF: 19808225.6/112

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 49.180 ± 23.688 $\chi^2/\text{NDF}: 21.2/27$

Left Out: -49.717 ± 20.580 $\chi^2/\text{NDF}: 39.4/24$

Right Out: 9.716 ± 23.384 $\chi^2/\text{NDF}: 41.4/31$

Left In: 8.343 ± 21.271 $\chi^2/\text{NDF}: 22.0/22$

Left: -21.646 ± 14.791 $\chi^2/\text{NDF}: 65.3/47$

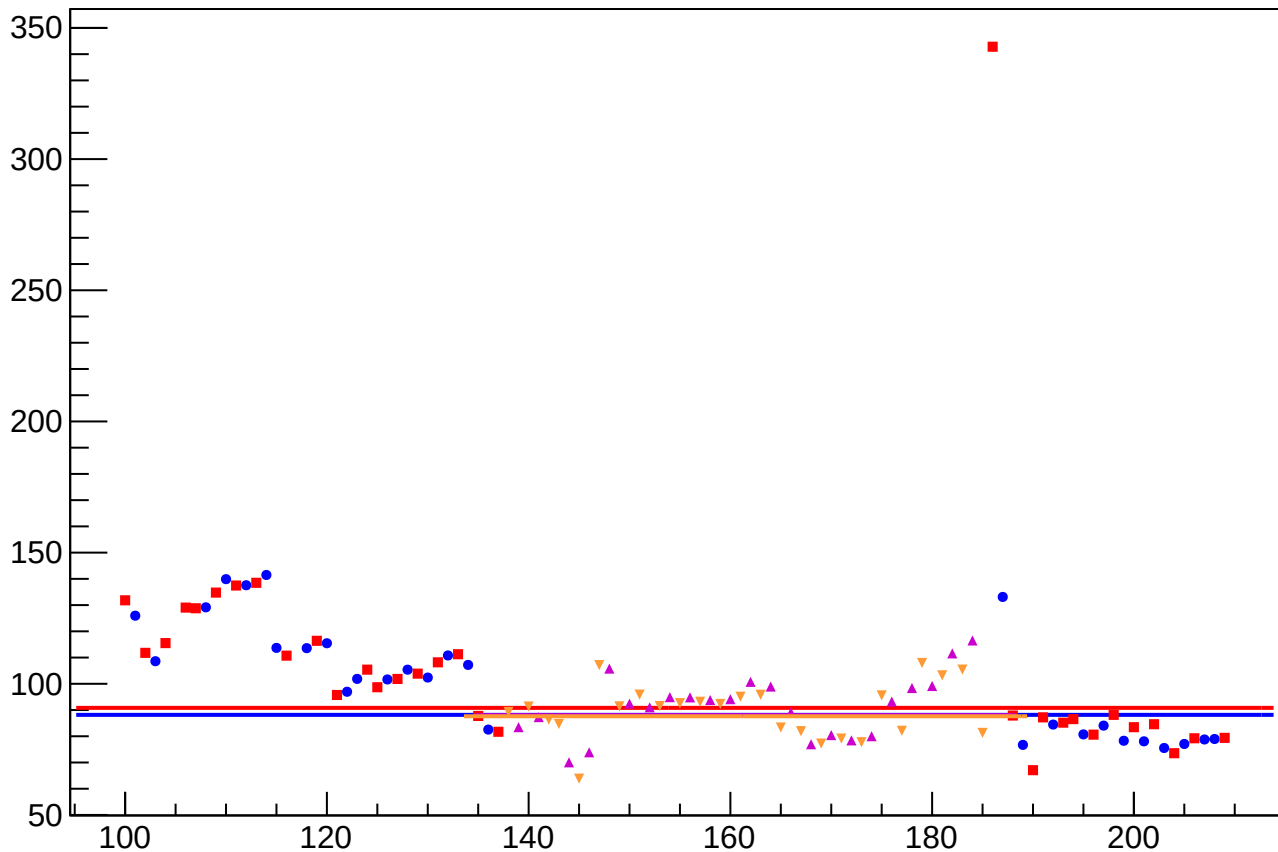
Right: 29.193 ± 16.642 $\chi^2/\text{NDF}: 64.0/59$

In: 26.572 ± 15.827 $\chi^2/\text{NDF}: 44.8/50$

Out: -23.776 ± 15.449 $\chi^2/\text{NDF}: 84.5/56$

All: 0.790 ± 11.055 $\chi^2/\text{NDF}: 134.5/107$

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 88.160 $\pm$ 0.017 χ^2 /NDF: 929474.6/27

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 90.830 $\pm$ 0.017 χ^2 /NDF: 1361325.2/31

Left In: 88.032 $\pm$ 0.015 χ^2 /NDF: 523710.9/22

Left: 87.822 $\pm$ 0.010 χ^2 /NDF: 1078779.2/47

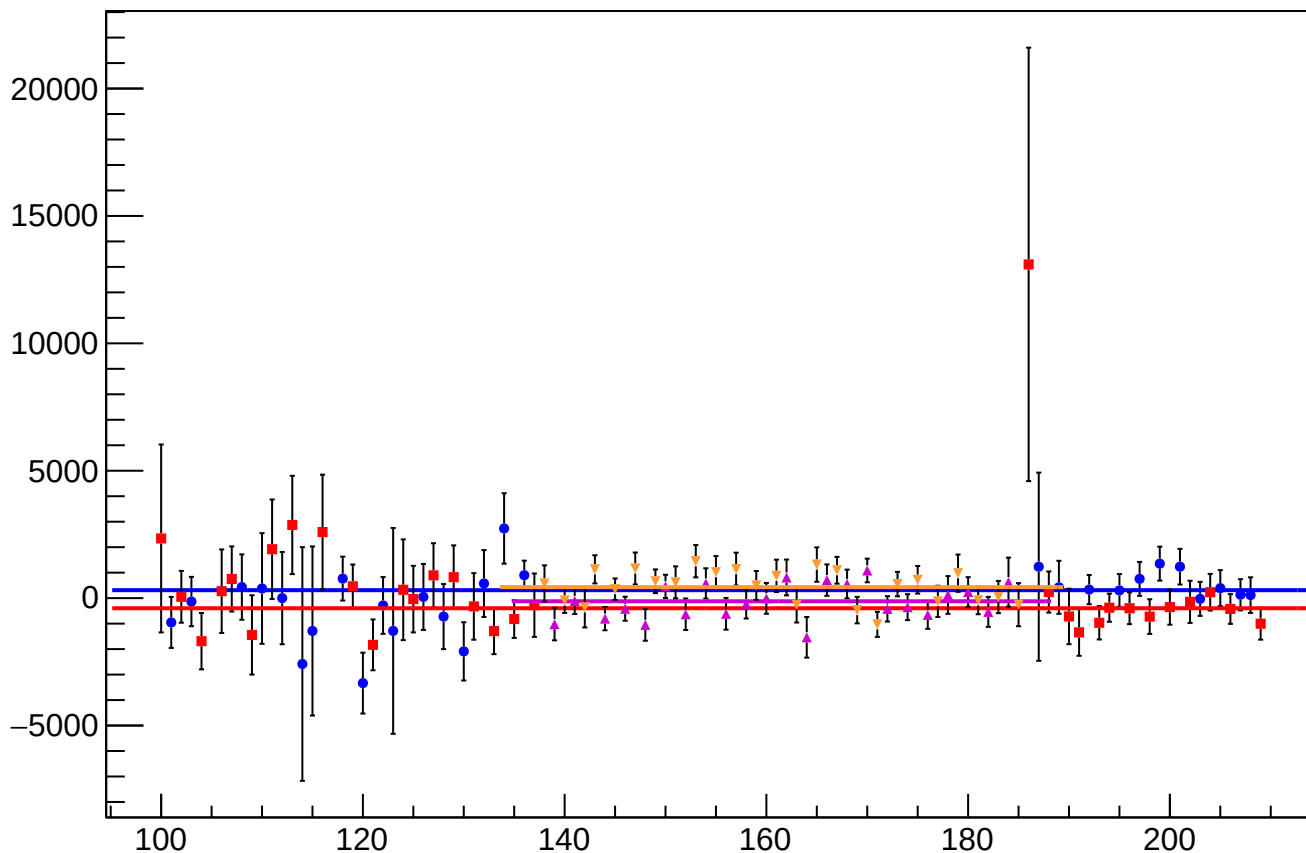
Right: 89.512 $\pm$ 0.012 χ^2 /NDF: 2303666.0/59

In: 88.089 $\pm$ 0.011 χ^2 /NDF: 1453217.9/50

Out: 89.024 $\pm$ 0.011 χ^2 /NDF: 1937179.4/56

All: 88.568 $\pm$ 0.008 χ^2 /NDF: 3393970.3/107

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 312.387 $\pm$ 170.626 χ^2 /NDF: 26.9/27

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -396.449 $\pm$ 162.986 χ^2 /NDF: 23.3/31

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

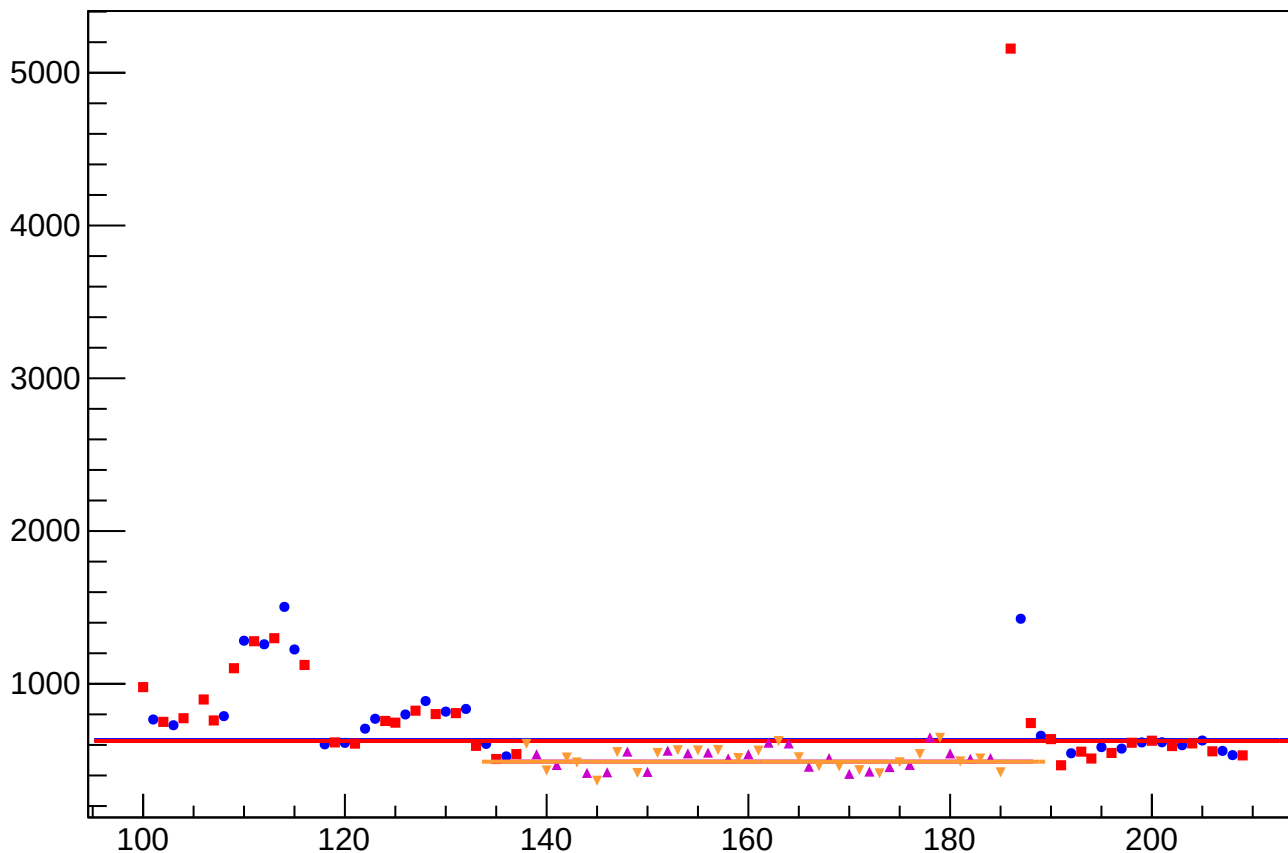
Right: -58.255 $\pm$ 117.857 χ^2 /NDF: 59.3/59

In: 19.222 $\pm$ 97.523 χ^2 /NDF:60.6/50

Out: 154.163 $\pm$ 94.348 χ^2 /NDF:70.9/56

All: 88.924 $\pm$ 67.809 χ^2 /NDF: 132.5/107

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 631.798+/-0.121 χ^2/NDF : 1177719.4/27

Left Out: 490.267+/-0.082 χ^2/NDF : 750277.0/24

Right Out: 625.642+/-0.115 χ^2/NDF : 2019268.5/31

Left In: 490.910+/-0.084 χ^2/NDF : 589235.5/22

Left: 490.580+/-0.059 χ^2/NDF : 1339542.5/47

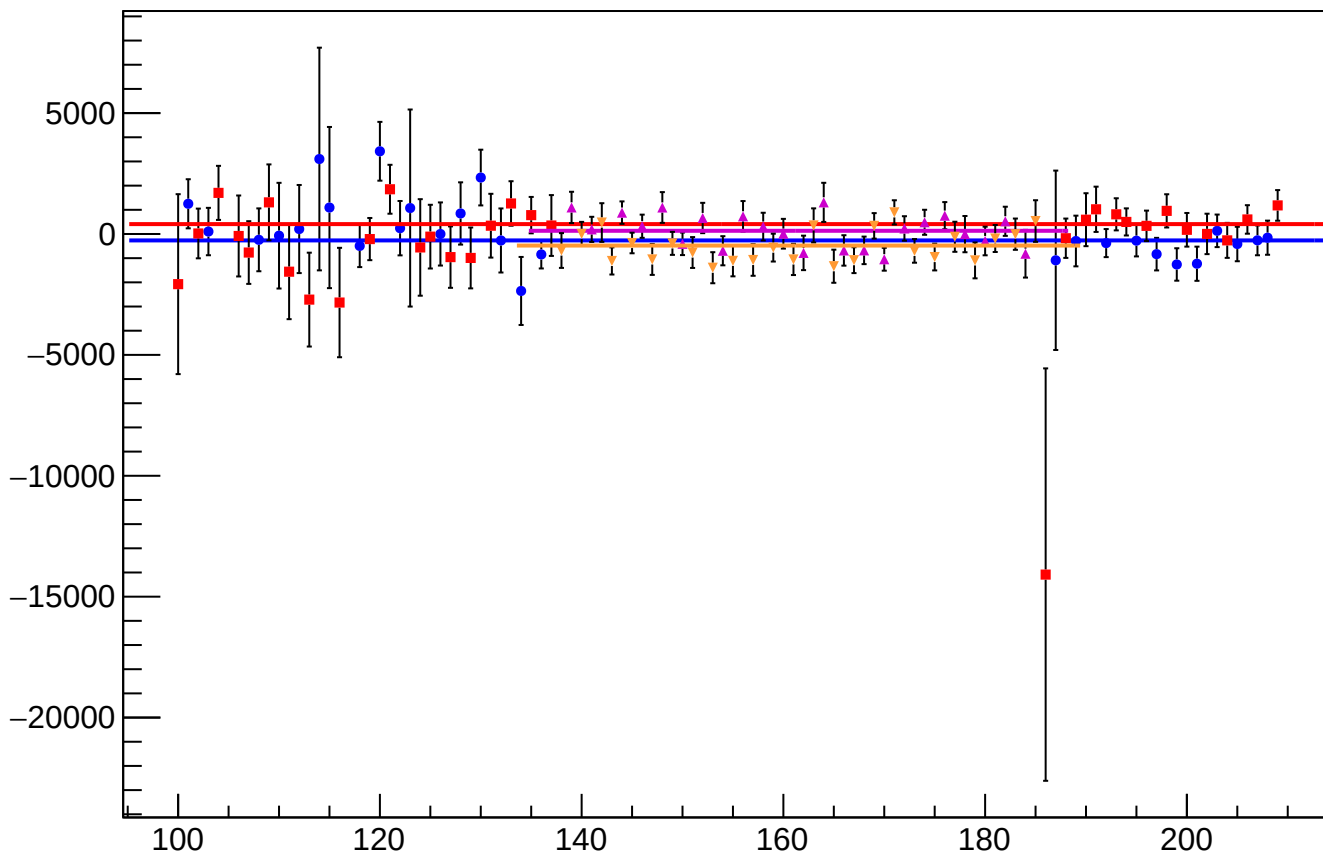
Right: 628.579+/-0.083 χ^2/NDF : 3198349.4/59

In: 536.935+/-0.069 χ^2/NDF : 2685106.6/50

Out: 535.630+/-0.067 χ^2/NDF : 3686963.7/56

All: 536.261+/-0.048 χ^2/NDF : 6372255.2/107

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -265.822+/-172.451 χ^2/NDF : 27.1/27

Left Out: -478.197+/-117.659 χ^2/NDF : 27.8/24

Right Out: 408.918+/-164.888 χ^2/NDF : 22.9/31

Left In: 132.543+/-120.866 χ^2/NDF : 29.5/22

Left: -181.037+/-84.308 χ^2/NDF : 70.5/47

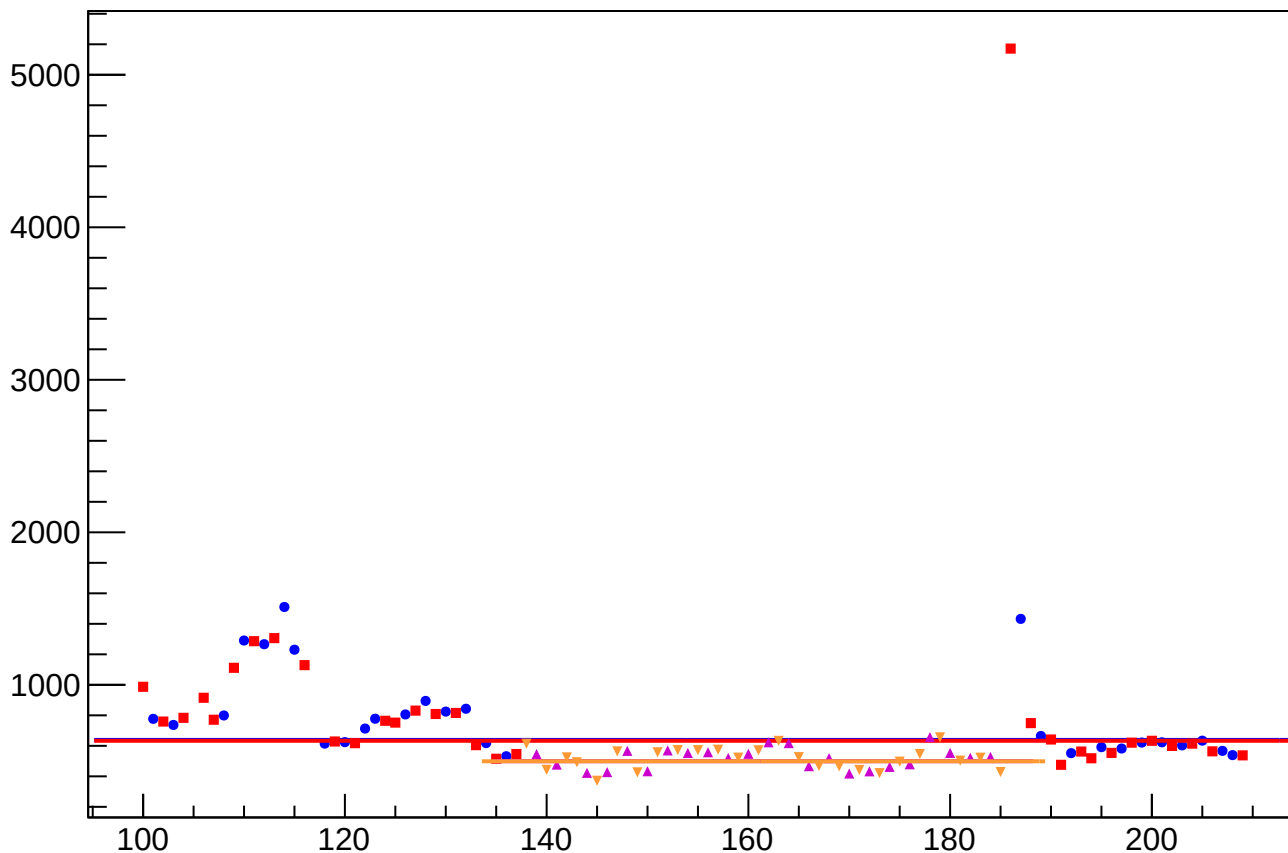
Right: 86.668+/-119.177 χ^2/NDF : 58.0/59

In: 1.318+/-98.977 χ^2/NDF : 60.2/50

Out: -178.894+/-95.775 χ^2/NDF : 69.9/56

All: -91.749+/-68.827 χ^2/NDF : 131.8/107

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 638.733 $\pm$ 0.122 χ^2 /NDF: 1166917.5/27

Left Out: 498.754 $\pm$ 0.083 χ^2 /NDF: 734302.8/24

Right Out: 633.191 $\pm$ 0.117 χ^2 /NDF: 1999465.0/31

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

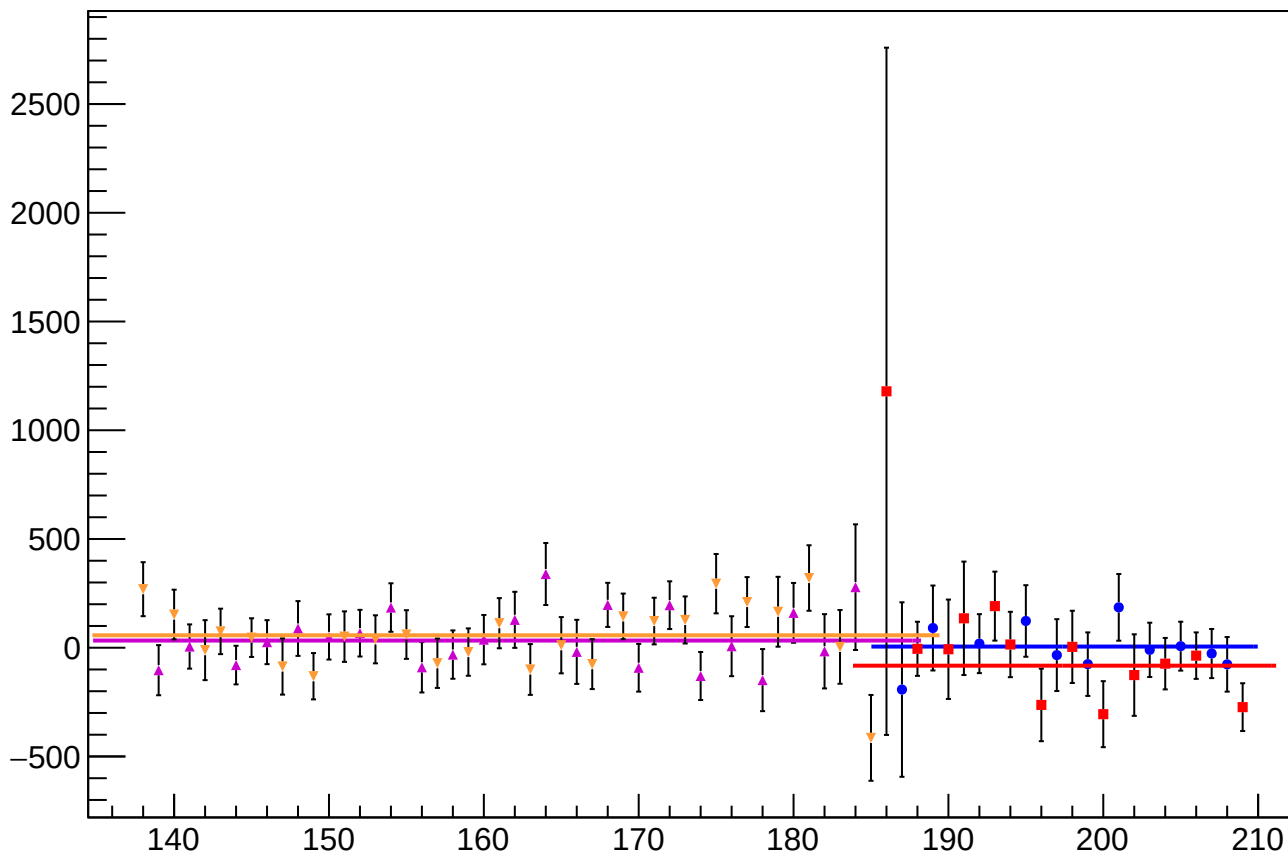
Right: 635.838 $\pm$ 0.084 χ^2 /NDF: 3167461.6/59

In: 545.293 $\pm$ 0.070 χ^2 /NDF: 2619060.2/50

Out: 544.112 $\pm$ 0.068 χ^2 /NDF: 3614708.9/56

All: 544.683 $\pm$ 0.049 χ^2 /NDF: 6233916.1/107

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 5.347 ± 43.238 $\chi^2/\text{NDF}: 3.2/10$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: -82.538 ± 41.932 $\chi^2/\text{NDF}: 12.1/12$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

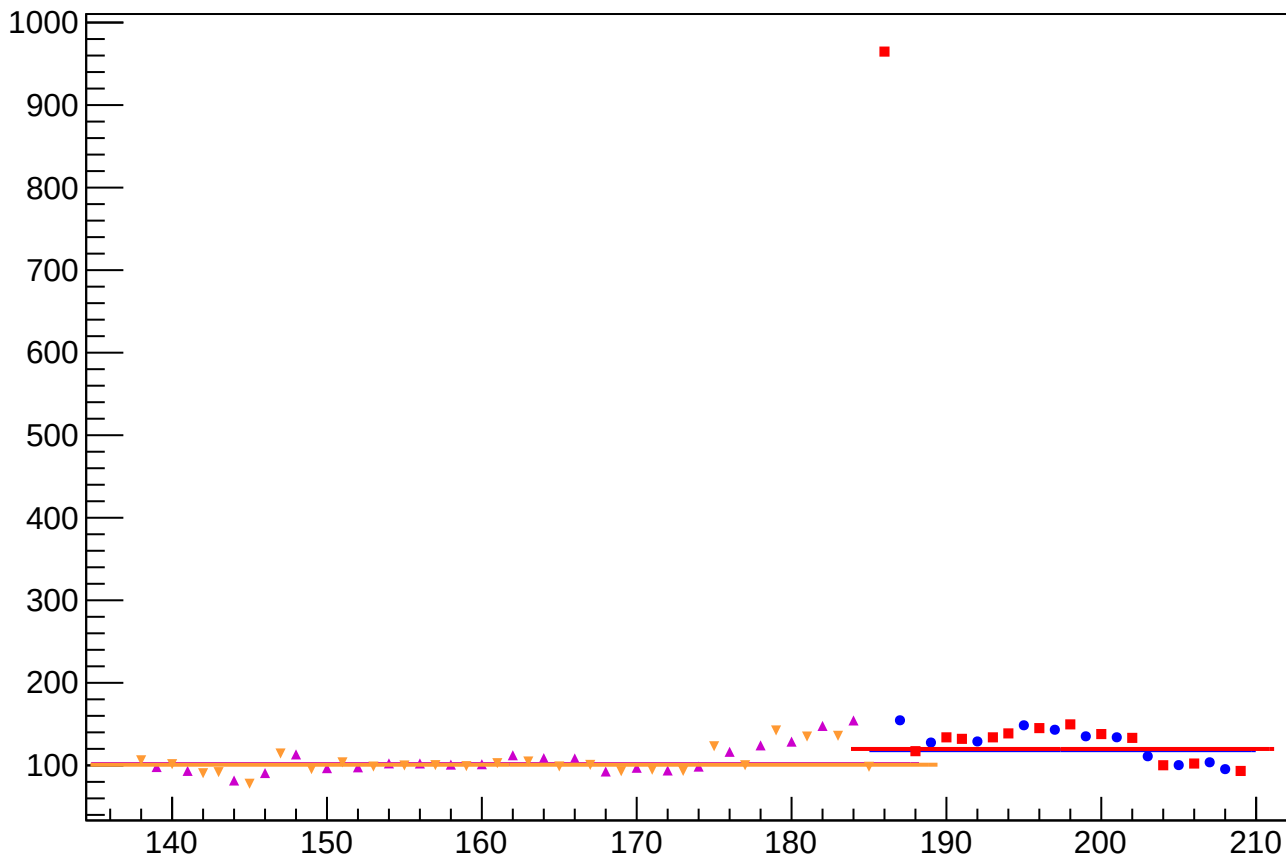
Right: -39.943 ± 30.102 $\chi^2/\text{NDF}: 17.4/23$

In: 26.204 ± 21.373 $\chi^2/\text{NDF}: 27.1/33$

Out: 23.347 ± 20.641 $\chi^2/\text{NDF}: 49.7/37$

All: 24.726 ± 14.848 $\chi^2/\text{NDF}: 76.8/71$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 118.416 $\pm$ 0.031 χ^2 /NDF: 351777.2/10

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF:600502.4/24

Right Out: 119.879 $\pm$ 0.030 χ^2 /NDF: 1008656.6/12

Left In: 101.622 $\pm$ 0.017 χ^2 /NDF:582329.3/22

Left: 101.196 $\pm$ 0.012 χ^2 /NDF: 1183987.6/47

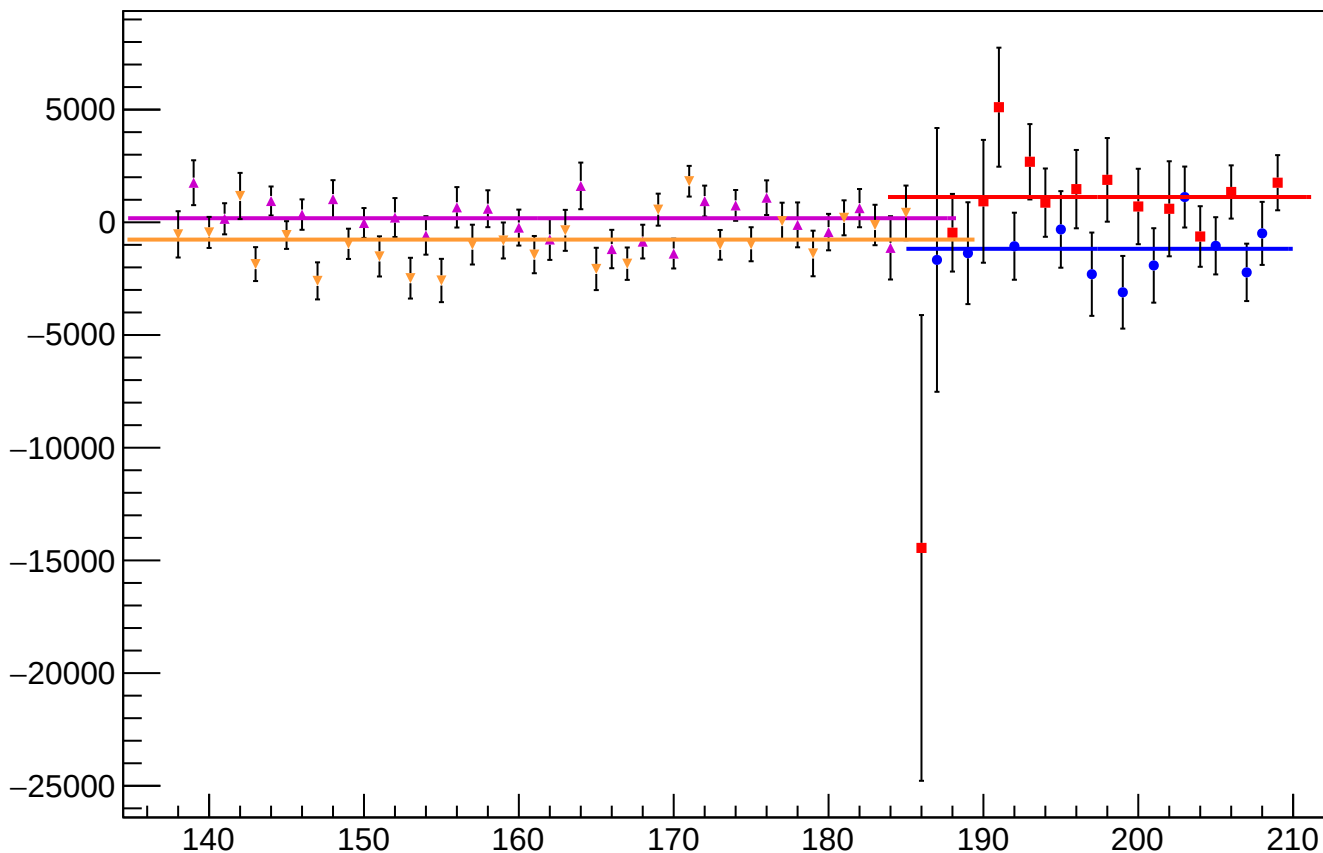
Right: 119.170 $\pm$ 0.021 χ^2 /NDF: 1361612.6/23

In: 105.725 $\pm$ 0.015 χ^2 /NDF:1162122.4/33

Out: 105.424 $\pm$ 0.015 χ^2 /NDF:1922846.7/37

All: 105.569 $\pm$ 0.010 χ^2 /NDF: 3085175.6/71

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1175.762 ± 478.718 $\chi^2/\text{NDF}: 6.1/10$

Left Out: -766.358 ± 161.066 $\chi^2/\text{NDF}: 46.5/24$

Right Out: 1122.408 ± 468.316 $\chi^2/\text{NDF}: 8.6/12$

Left In: 181.584 ± 165.671 $\chi^2/\text{NDF}: 25.0/22$

Left: -305.743 ± 115.485 $\chi^2/\text{NDF}: 88.4/47$

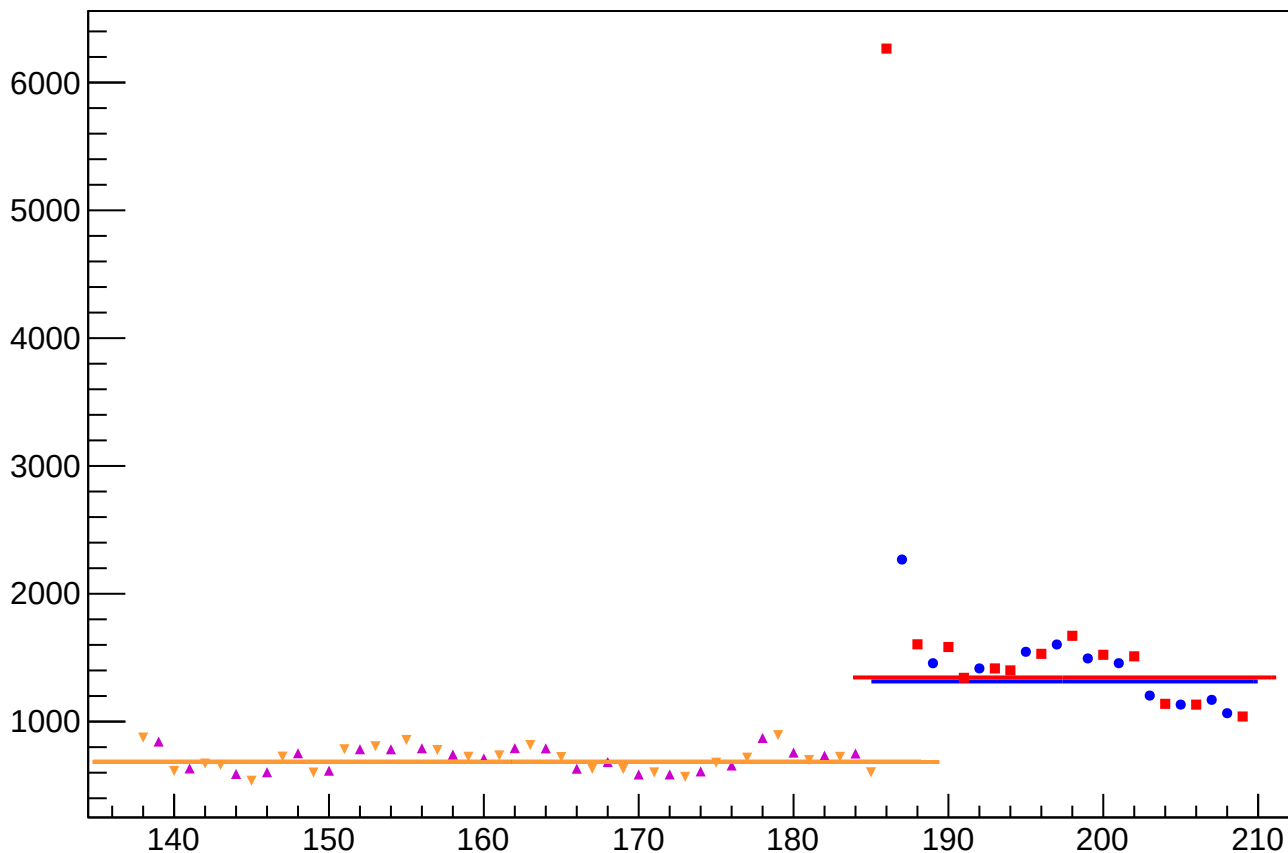
Right: -1.439 ± 334.766 $\chi^2/\text{NDF}: 26.5/23$

In: 36.407 ± 156.561 $\chi^2/\text{NDF}: 38.3/33$

Out: -566.576 ± 152.310 $\chi^2/\text{NDF}: 69.7/37$

All: -273.381 ± 109.171 $\chi^2/\text{NDF}: 115.6/71$

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1313.960 $\pm$ 0.339 χ^2 /NDF: 339428.0/10

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1345.286 $\pm$ 0.331 χ^2 /NDF: 876176.8/12

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

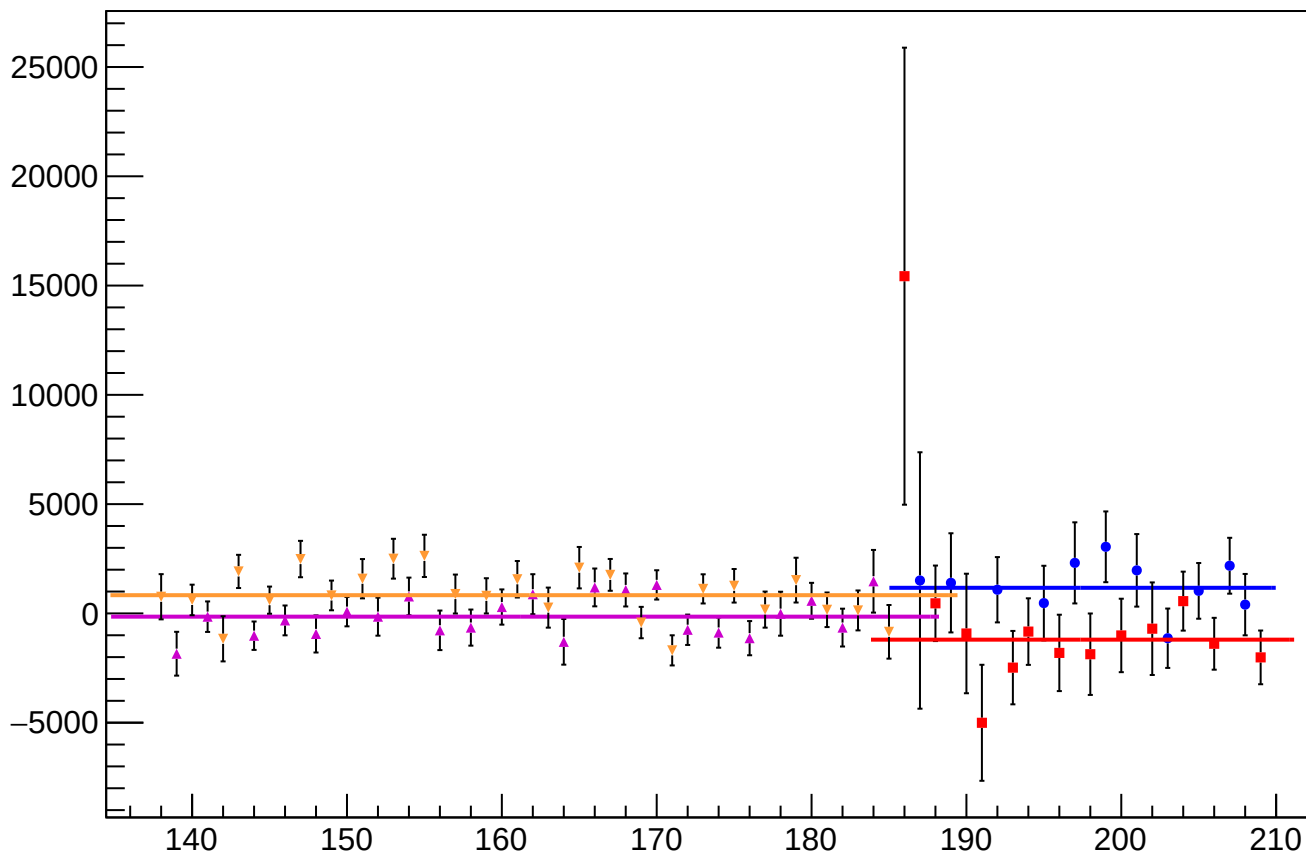
Right: 1329.967 $\pm$ 0.237 χ^2 /NDF: 1219980.8/23

In: 752.801 $\pm$ 0.111 χ^2 /NDF: 3946091.1/33

Out: 753.843 $\pm$ 0.108 χ^2 /NDF: 5110548.6/37

All: 753.336 $\pm$ 0.077 χ^2 /NDF: 9056685.2/71

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1171.547 $\pm$ 480.748 χ^2 /NDF: 6.0/10

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF:43.2/24

Right Out: -1201.242 $\pm$ 470.318 χ^2 /NDF: 8.6/12

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

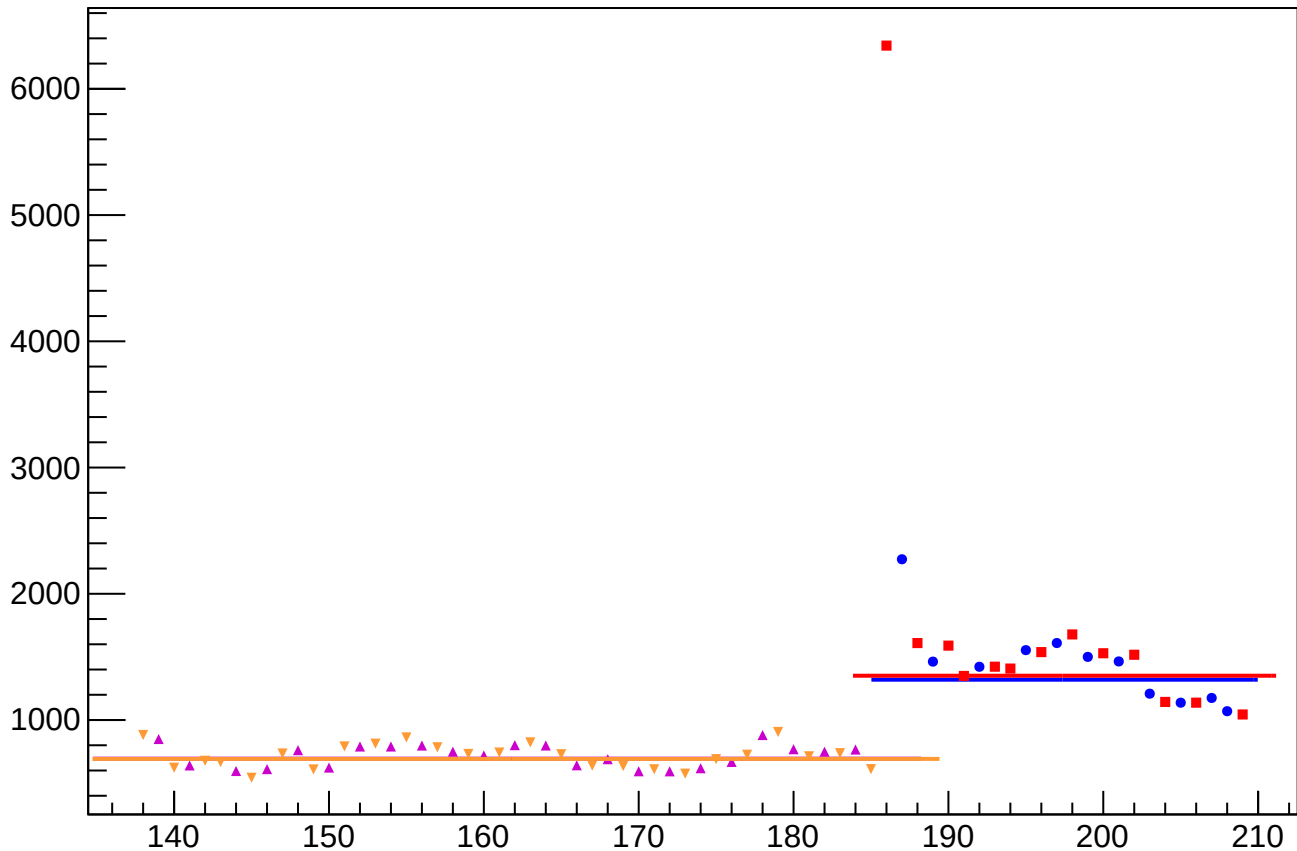
Right: -40.867 $\pm$ 336.192 χ^2 /NDF: 27.1/23

In: -5.663 $\pm$ 158.296 χ^2 /NDF:38.7/33

Out: 615.297 $\pm$ 153.983 χ^2 /NDF:68.6/37

All: 313.391 $\pm$ 110.376 χ^2 /NDF: 115.2/71

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1319.527 $\pm$ 0.340 χ^2 /NDF: 339914.0/10

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1350.982 $\pm$ 0.333 χ^2 /NDF: 878597.5/12

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

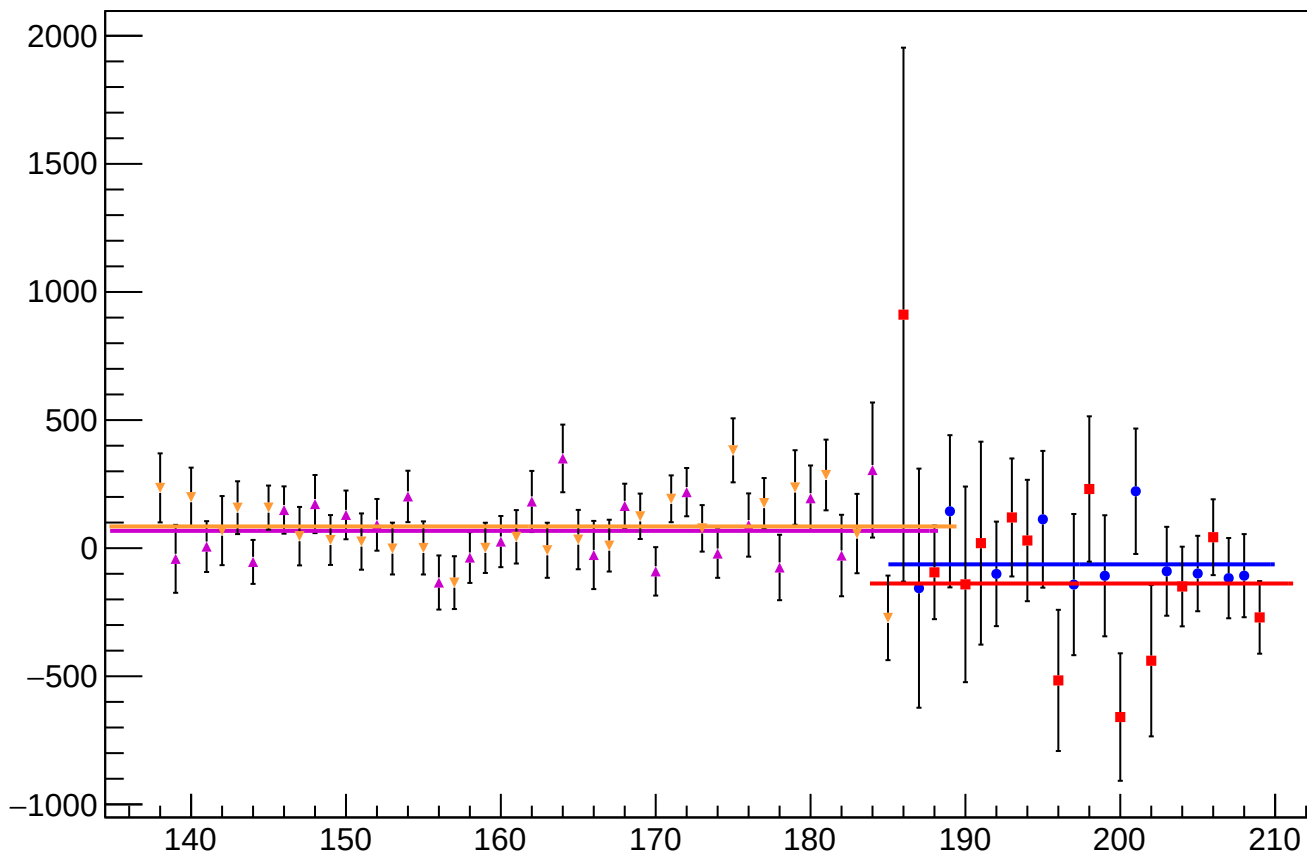
Right: 1335.600 $\pm$ 0.238 χ^2 /NDF: 1222886.3/23

In: 761.700 $\pm$ 0.112 χ^2 /NDF: 3882152.0/33

Out: 762.724 $\pm$ 0.109 χ^2 /NDF: 5040347.6/37

All: 762.226 $\pm$ 0.078 χ^2 /NDF: 8922542.6/71

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -63.128 ± 62.038 χ^2/NDF : 2.7/10

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -137.916 ± 60.764 χ^2/NDF : 14.4/12

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

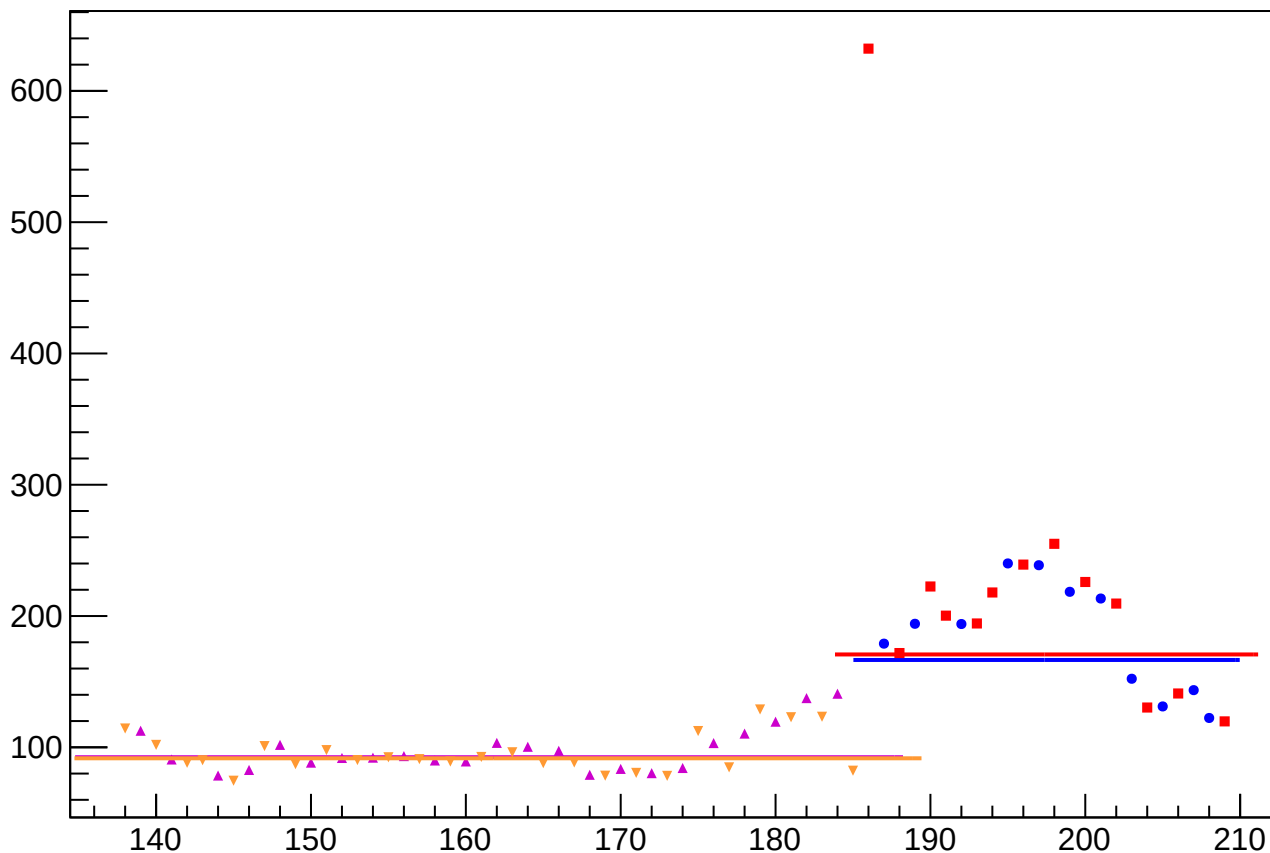
Right: -101.297 ± 43.410 χ^2/NDF : 17.8/23

In: 52.421 ± 21.110 χ^2/NDF : 35.5/33

Out: 59.779 ± 20.388 χ^2/NDF : 54.8/37

All: 56.228 ± 14.665 χ^2/NDF : 90.4/71

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 166.530 $\pm$ 0.044 χ^2 /NDF: 833897.6/10

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 170.734 $\pm$ 0.043 χ^2 /NDF: 1448241.8/12

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

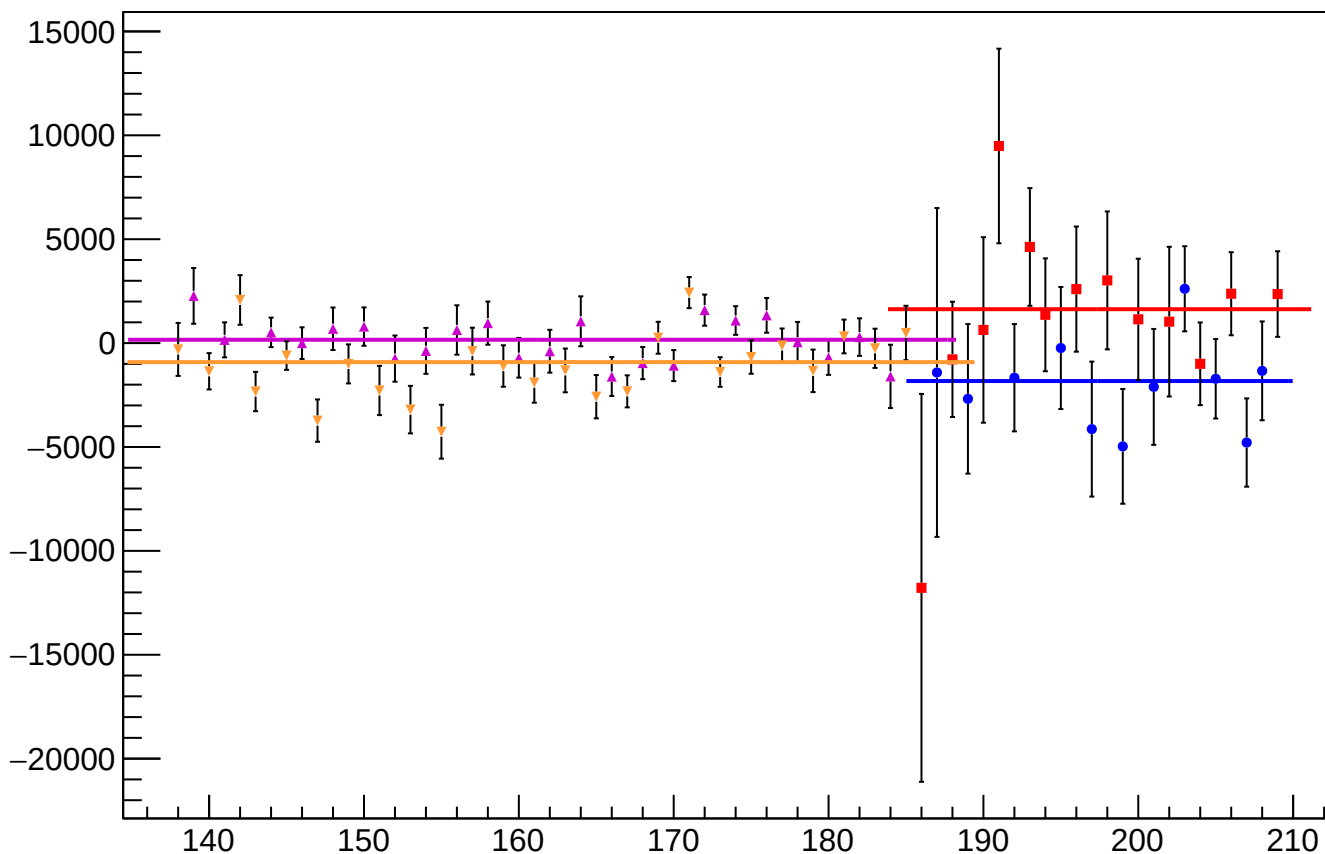
Right: 168.675 $\pm$ 0.031 χ^2 /NDF: 2286827.2/23

In: 101.041 $\pm$ 0.015 χ^2 /NDF: 4010113.8/33

Out: 100.538 $\pm$ 0.014 χ^2 /NDF: 5149072.7/37

All: 100.781 $\pm$ 0.010 χ^2 /NDF: 9159774.7/71

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1826.372+/-784.843 χ^2/NDF : 8.9/10

Left Out: -914.719+/-185.341 χ^2/NDF : 64.2/24

Right Out: 1631.571+/-782.820 χ^2/NDF : 9.2/12

Left In: 161.076+/-189.491 χ^2/NDF : 25.1/22

Left: -388.730+/-132.499 χ^2/NDF : 105.7/47

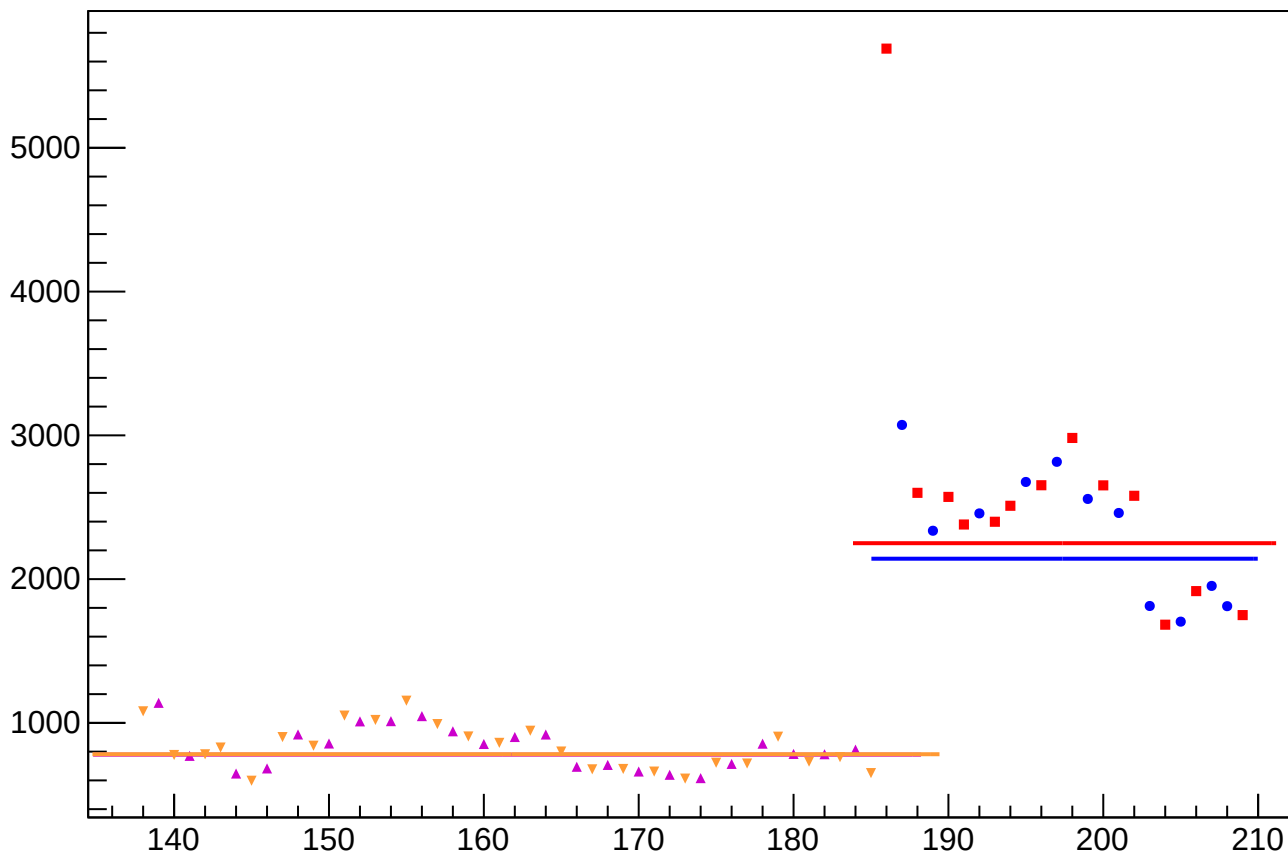
Right: -92.940+/-554.251 χ^2/NDF : 27.7/23

In: 51.605+/-184.198 χ^2/NDF : 40.0/33

Out: -779.562+/-180.355 χ^2/NDF : 83.3/37

All: -372.740+/-128.867 χ^2/NDF : 133.7/71

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2141.997 $\pm$ 0.555 χ^2 /NDF: 497452.0/10

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2249.942 $\pm$ 0.554 χ^2 /NDF: 863255.3/12

Left In: 778.995 $\pm$ 0.134 χ^2 /NDF: 980243.4/22

Left: 780.552 $\pm$ 0.094 χ^2 /NDF: 2111492.1/47

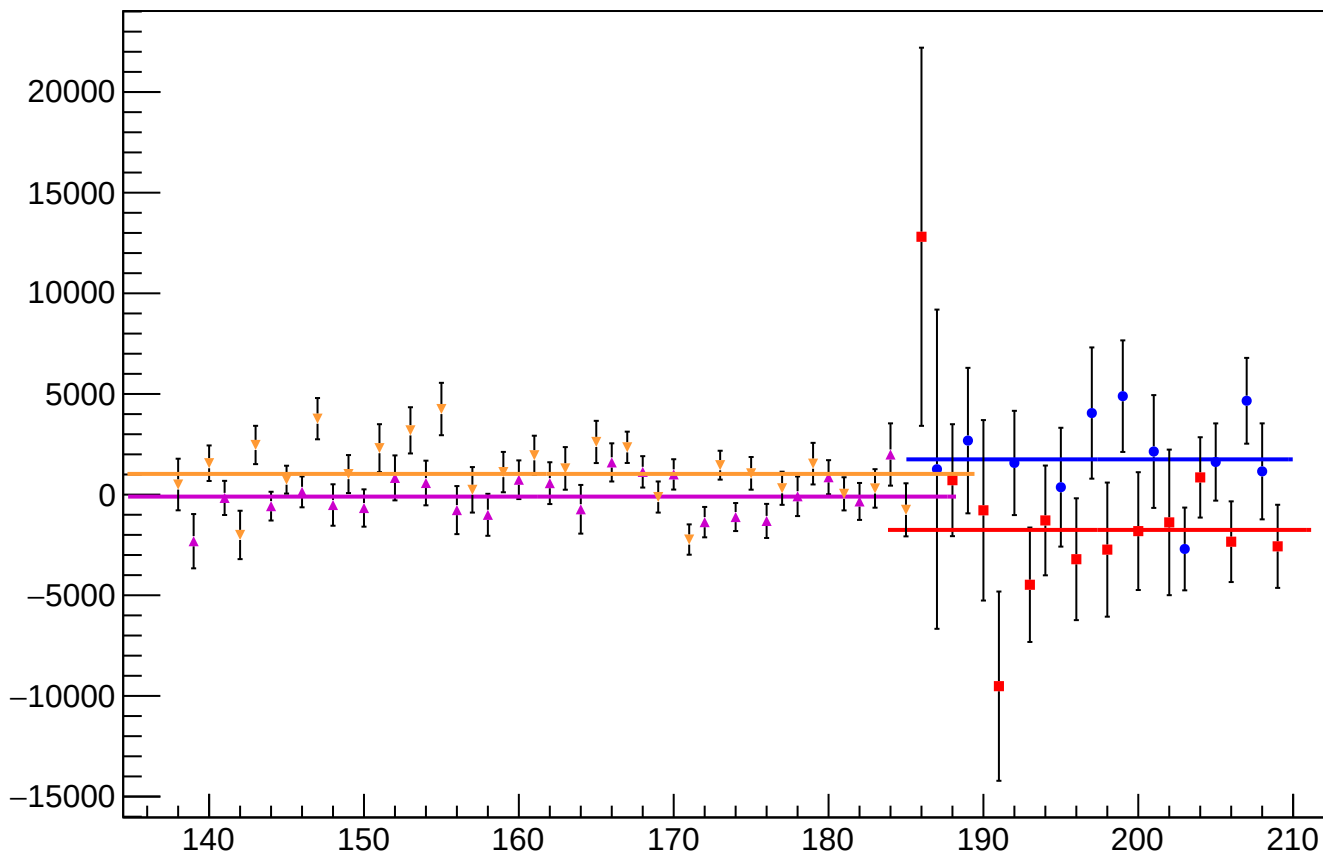
Right: 2196.109 $\pm$ 0.392 χ^2 /NDF: 1379672.6/23

In: 854.071 $\pm$ 0.130 χ^2 /NDF: 7177404.0/33

Out: 859.958 $\pm$ 0.128 χ^2 /NDF: 8653288.3/37

All: 857.076 $\pm$ 0.091 χ^2 /NDF: 15831735.3/71

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1751.860 ± 787.517 χ^2/NDF : 8.7/10

Left Out: 1028.864 ± 186.810 χ^2/NDF : 60.2/24

Right Out: -1753.082 ± 785.438 χ^2/NDF : 9.2/12

Left In: -98.691 ± 191.027 χ^2/NDF : 25.4/22

Left: 477.669 ± 133.561 χ^2/NDF : 103.3/47

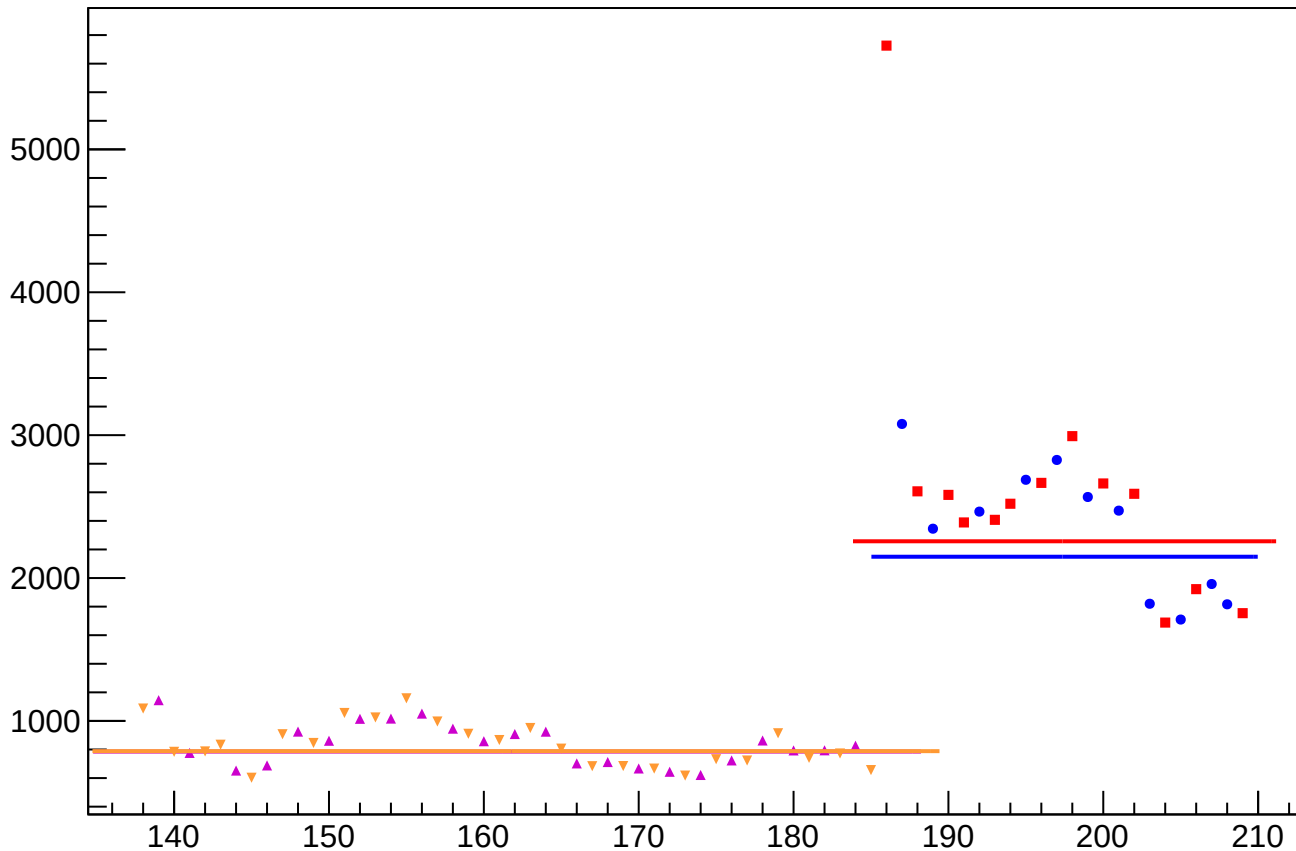
Right: -5.244 ± 556.122 χ^2/NDF : 27.8/23

In: 4.144 ± 185.643 χ^2/NDF : 39.3/33

Out: 879.918 ± 181.741 χ^2/NDF : 81.2/37

All: 451.334 ± 129.868 χ^2/NDF : 131.9/71

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2149.159 $\pm$ 0.557 χ^2 /NDF: 499341.3/10

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF: 1113741.6/24

Right Out: 2257.230 $\pm$ 0.555 χ^2 /NDF: 866916.7/12

Left In: 785.490 $\pm$ 0.135 χ^2 /NDF: 965338.9/22

Left: 786.999 $\pm$ 0.094 χ^2 /NDF: 2079324.6/47

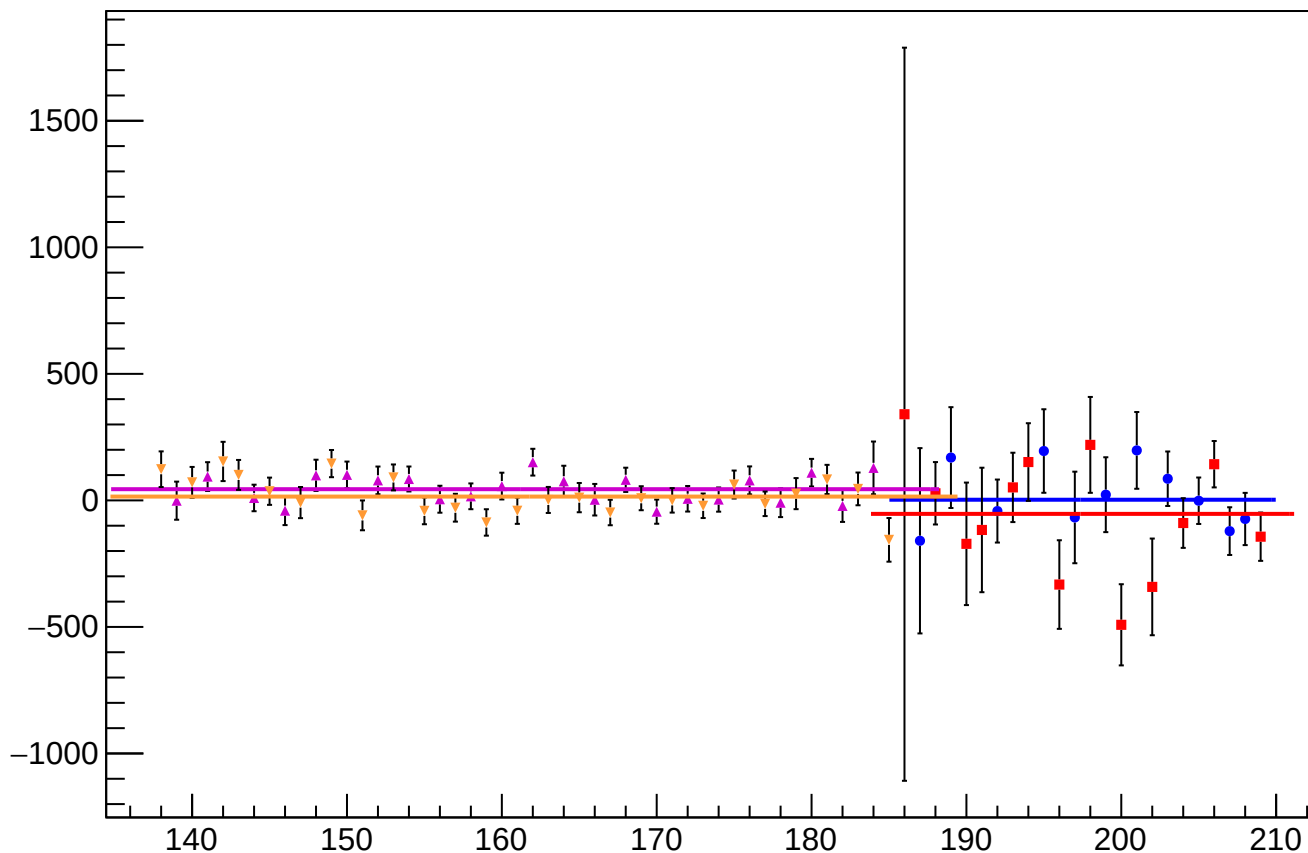
Right: 2203.337 $\pm$ 0.393 χ^2 /NDF: 1385140.2/23

In: 861.269 $\pm$ 0.131 χ^2 /NDF: 7128338.5/33

Out: 867.081 $\pm$ 0.129 χ^2 /NDF: 8600187.2/37

All: 864.237 $\pm$ 0.092 χ^2 /NDF: 15729526.6/73

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 2.621 ± 38.776 $\chi^2/\text{NDF}: 7.1/10$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -53.270 ± 39.076 $\chi^2/\text{NDF}: 23.2/12$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

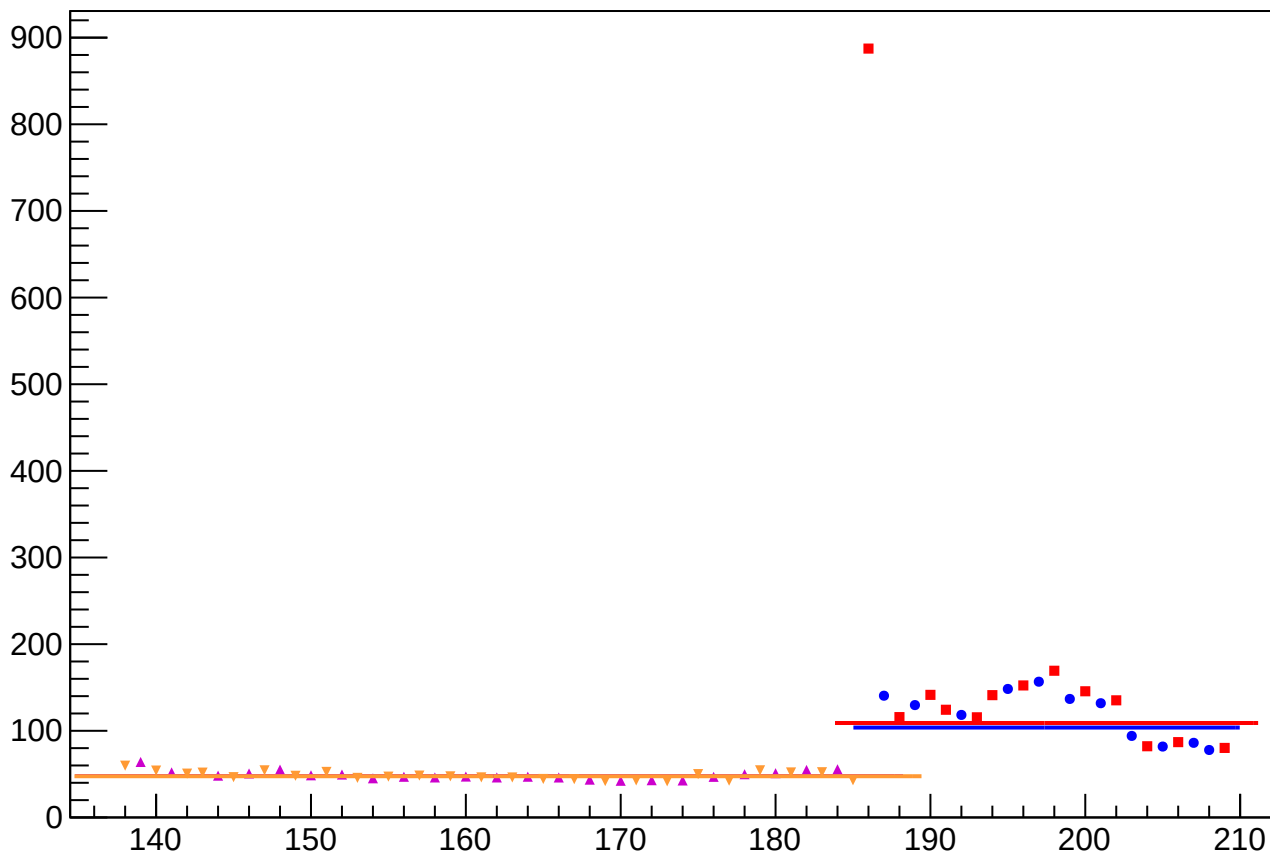
Right: -25.109 ± 27.524 $\chi^2/\text{NDF}: 31.3/23$

In: 40.912 ± 11.051 $\chi^2/\text{NDF}: 30.4/33$

Out: 9.948 ± 10.726 $\chi^2/\text{NDF}: 60.2/37$

All: 24.967 ± 7.697 $\chi^2/\text{NDF}: 94.7/71$

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 103.760 $\pm$ 0.027 χ^2 /NDF: 892750.3/10

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF:312874.8/24

Right Out: 109.025 $\pm$ 0.028 χ^2 /NDF: 1633808.5/12

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

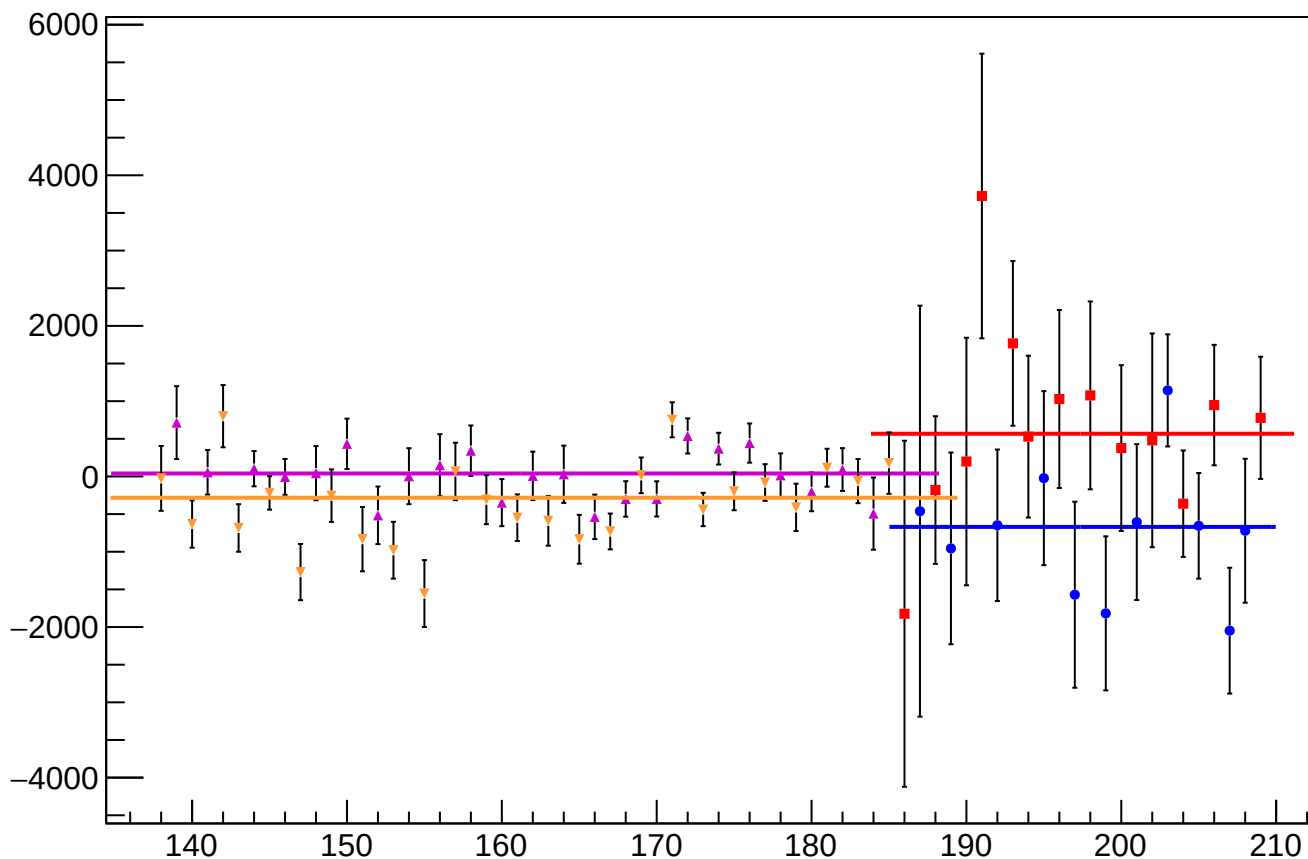
Right: 106.372 $\pm$ 0.019 χ^2 /NDF: 2544851.3/23

In: 52.388 $\pm$ 0.008 χ^2 /NDF:4995411.1/33

Out: 52.215 $\pm$ 0.008 χ^2 /NDF:6518273.9/37

All: 52.299 $\pm$ 0.005 χ^2 /NDF: 11513937.1/71

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -669.979+/-296.247 χ^2/NDF : 10.8/10

Left Out: -282.798+/-59.690 χ^2/NDF : 66.5/24

Right Out: 567.335+/-296.939 χ^2/NDF : 8.1/12

Left In: 39.432+/-60.759 χ^2/NDF : 27.5/22

Left: -124.543+/-42.580 χ^2/NDF : 108.4/47

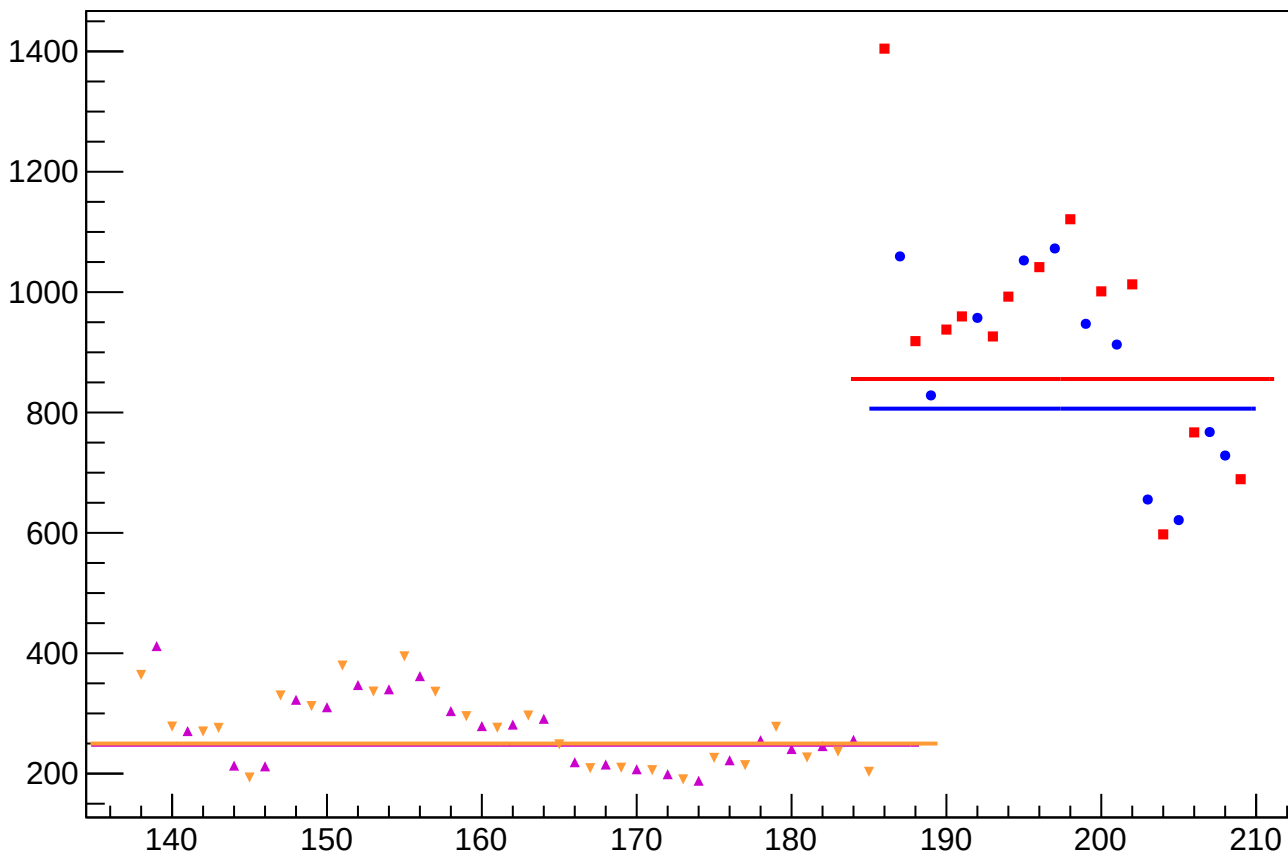
Right: -52.767+/-209.723 χ^2/NDF : 27.6/23

In: 10.796+/-59.520 χ^2/NDF : 43.9/33

Out: -249.781+/-58.519 χ^2/NDF : 82.5/37

All: -121.701+/-41.729 χ^2/NDF : 136.1/71

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 806.398+/-0.209 χ^2/NDF : 544624.7/10

Left Out: 249.956+/-0.042 χ^2/NDF : 1614205.9/24

Right Out: 855.688+/-0.210 χ^2/NDF : 749081.2/12

Left In: 247.917+/-0.043 χ^2/NDF : 1410847.5/22

Left: 248.955+/-0.030 χ^2/NDF : 3026200.1/47

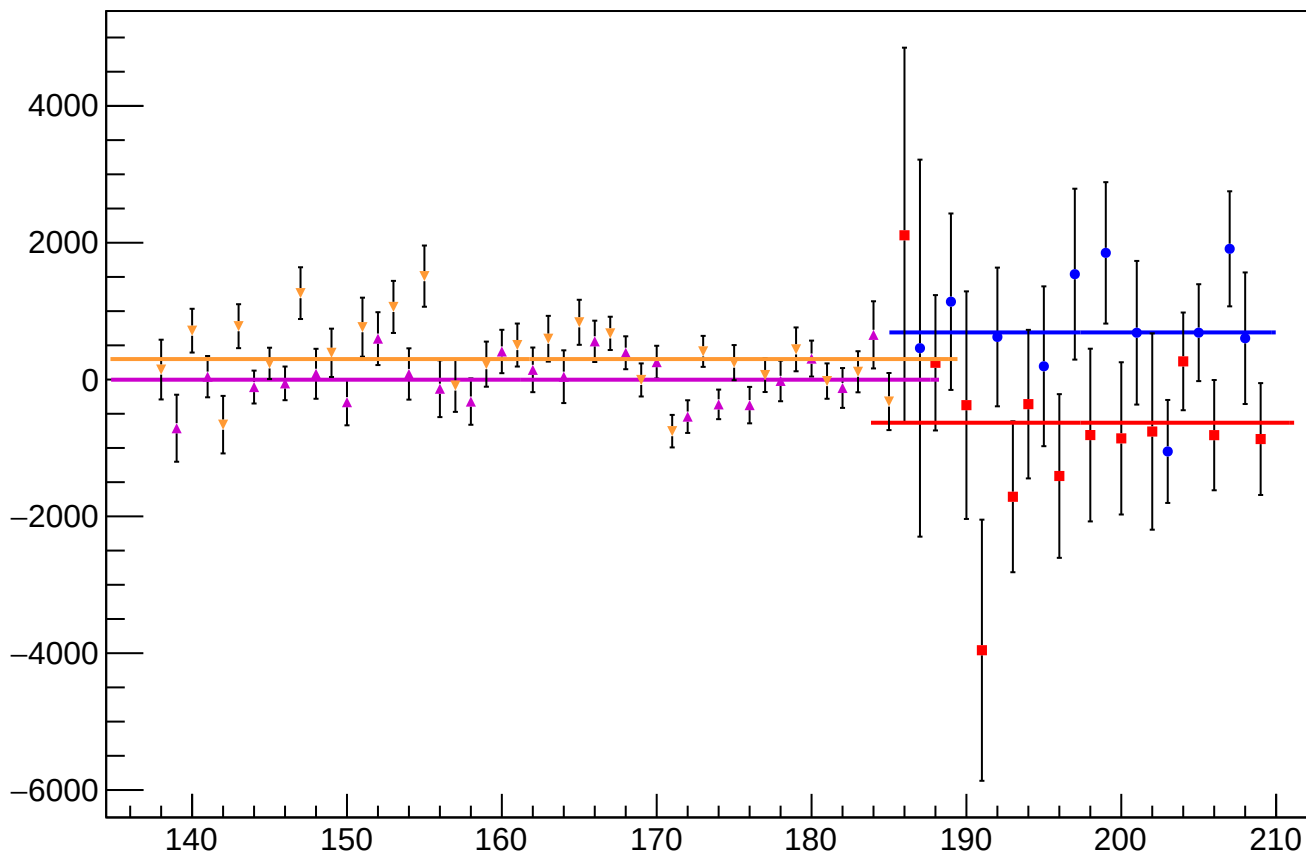
Right: 830.986+/-0.148 χ^2/NDF : 1321324.3/23

In: 270.461+/-0.042 χ^2/NDF : 8776415.3/33

Out: 273.482+/-0.041 χ^2/NDF : 10362576.0/37

All: 271.997+/-0.030 χ^2/NDF : 19141612.0/73

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 689.013+/-299.116 χ^2/NDF : 9.5/10

Left Out: 299.562+/-60.860 χ^2/NDF : 62.5/24

Right Out: -631.196+/-300.469 χ^2/NDF : 8.1/12

Left In: -2.185+/-62.005 χ^2/NDF : 29.2/22

Left: 151.501+/-43.433 χ^2/NDF : 103.7/47

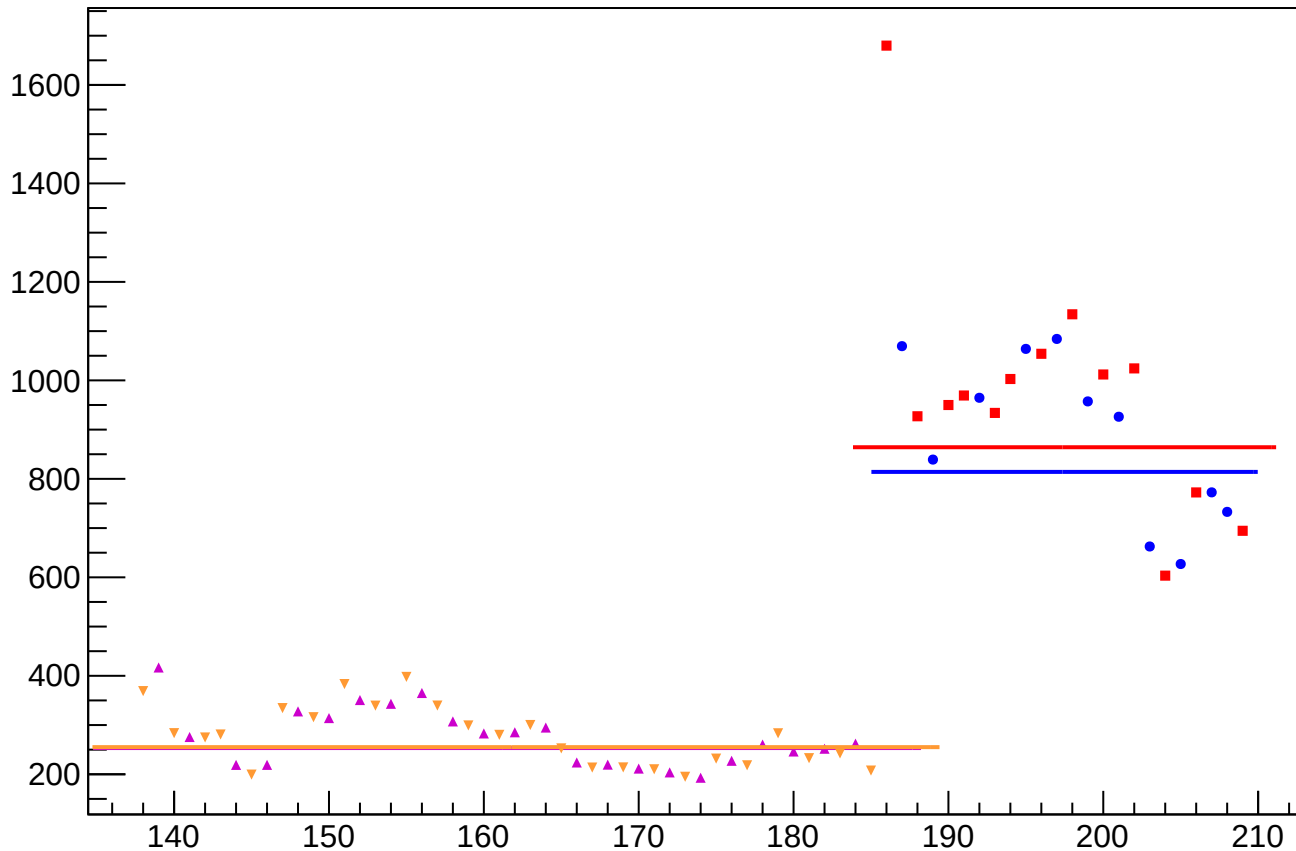
Right: 31.888+/-211.984 χ^2/NDF : 27.3/23

In: 26.292+/-60.714 χ^2/NDF : 43.8/33

Out: 262.882+/-59.648 χ^2/NDF : 79.8/37

All: 146.682+/-42.550 χ^2/NDF : 131.3/71

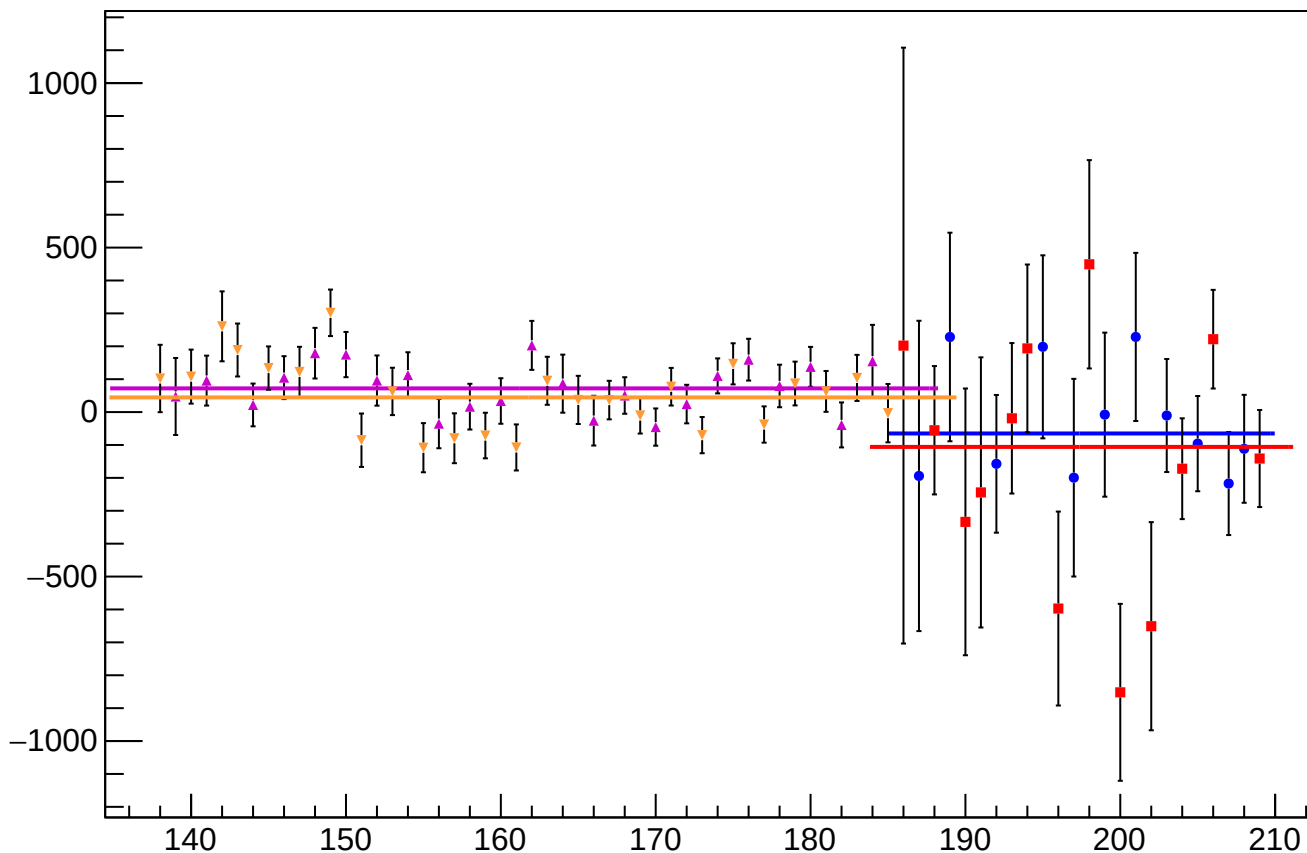
asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 814.123+/-0.212 χ^2/NDF : 547767.8/10
 Left Out: 255.135+/-0.043 χ^2/NDF : 1542039.5/24
 Right Out: 864.193+/-0.212 χ^2/NDF : 817759.5/12
 Left In: 253.287+/-0.044 χ^2/NDF : 1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47
 Right: 839.045+/-0.150 χ^2/NDF : 1393421.8/23
 In: 276.394+/-0.043 χ^2/NDF : 8630820.3/33
 Out: 279.138+/-0.042 χ^2/NDF : 10253596.1/37
 All: 277.790+/-0.030 χ^2/NDF : 18886495.1/73

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -65.006 ± 62.971 χ^2/NDF : 4.8/10

Left Out: 44.602 ± 13.824 χ^2/NDF : 53.9/24

Right Out: -105.862 ± 62.956 χ^2/NDF : 23.7/12

Left In: 72.037 ± 14.296 χ^2/NDF : 25.3/22

Left: 57.859 ± 9.938 χ^2/NDF : 81.1/47

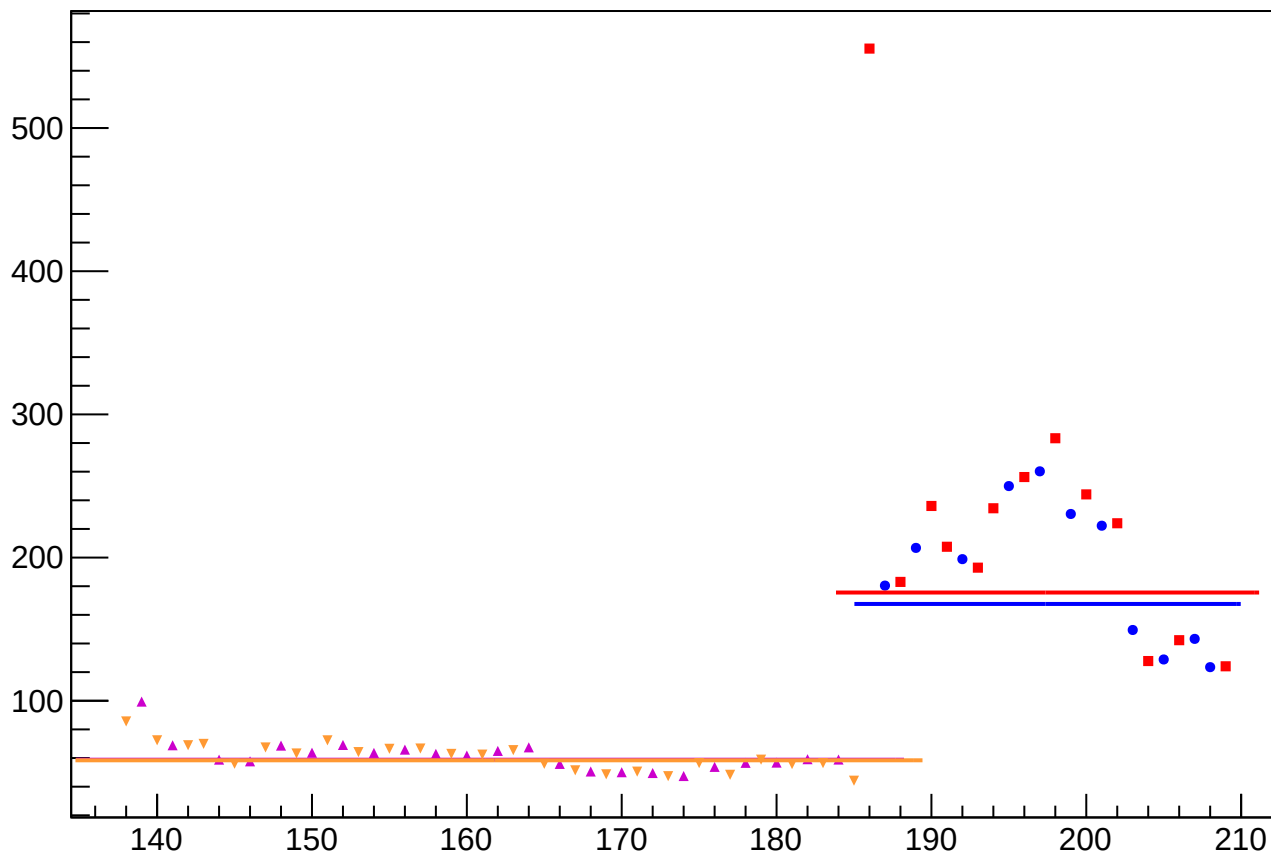
Right: -85.439 ± 44.522 χ^2/NDF : 28.6/23

In: 65.320 ± 13.942 χ^2/NDF : 34.6/33

Out: 37.680 ± 13.503 χ^2/NDF : 83.0/37

All: 51.058 ± 9.699 χ^2/NDF : 119.6/71

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 167.613 $\pm$ 0.045 χ^2 /NDF: 1019551.4/10

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 175.598 $\pm$ 0.045 χ^2 /NDF: 1624823.6/12

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

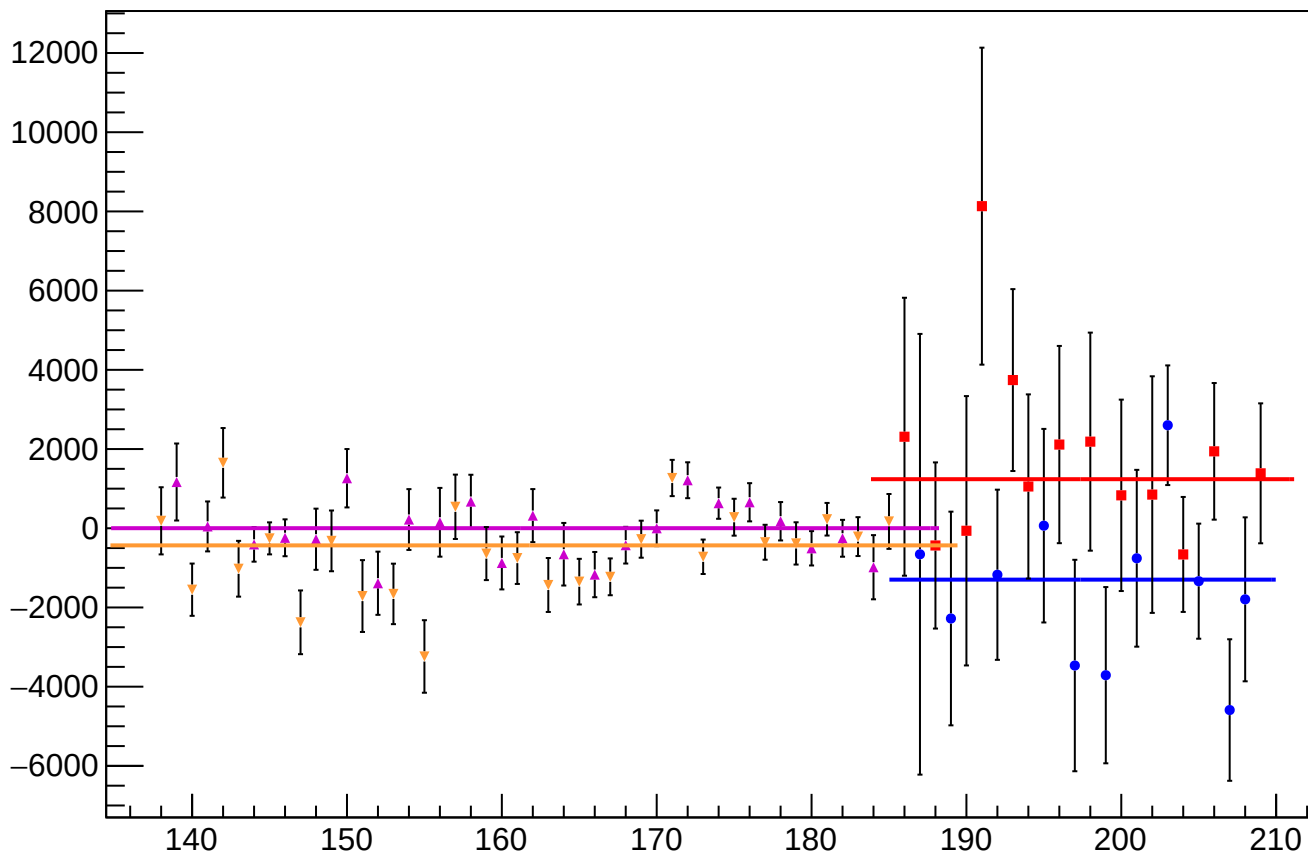
Right: 171.607 $\pm$ 0.031 χ^2 /NDF: 2660456.7/23

In: 64.171 $\pm$ 0.010 χ^2 /NDF: 7374503.1/33

Out: 63.813 $\pm$ 0.010 χ^2 /NDF: 9024540.3/37

All: 63.986 $\pm$ 0.007 χ^2 /NDF: 16399726.0/71

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1297.355 ± 625.577 $\chi^2/\text{NDF}: 12.5/10$

Left Out: -432.330 ± 114.408 $\chi^2/\text{NDF}: 59.4/24$

Right Out: 1238.893 ± 627.534 $\chi^2/\text{NDF}: 7.2/12$

Left In: 1.825 ± 116.459 $\chi^2/\text{NDF}: 32.3/22$

Left: -219.109 ± 81.614 $\chi^2/\text{NDF}: 98.8/47$

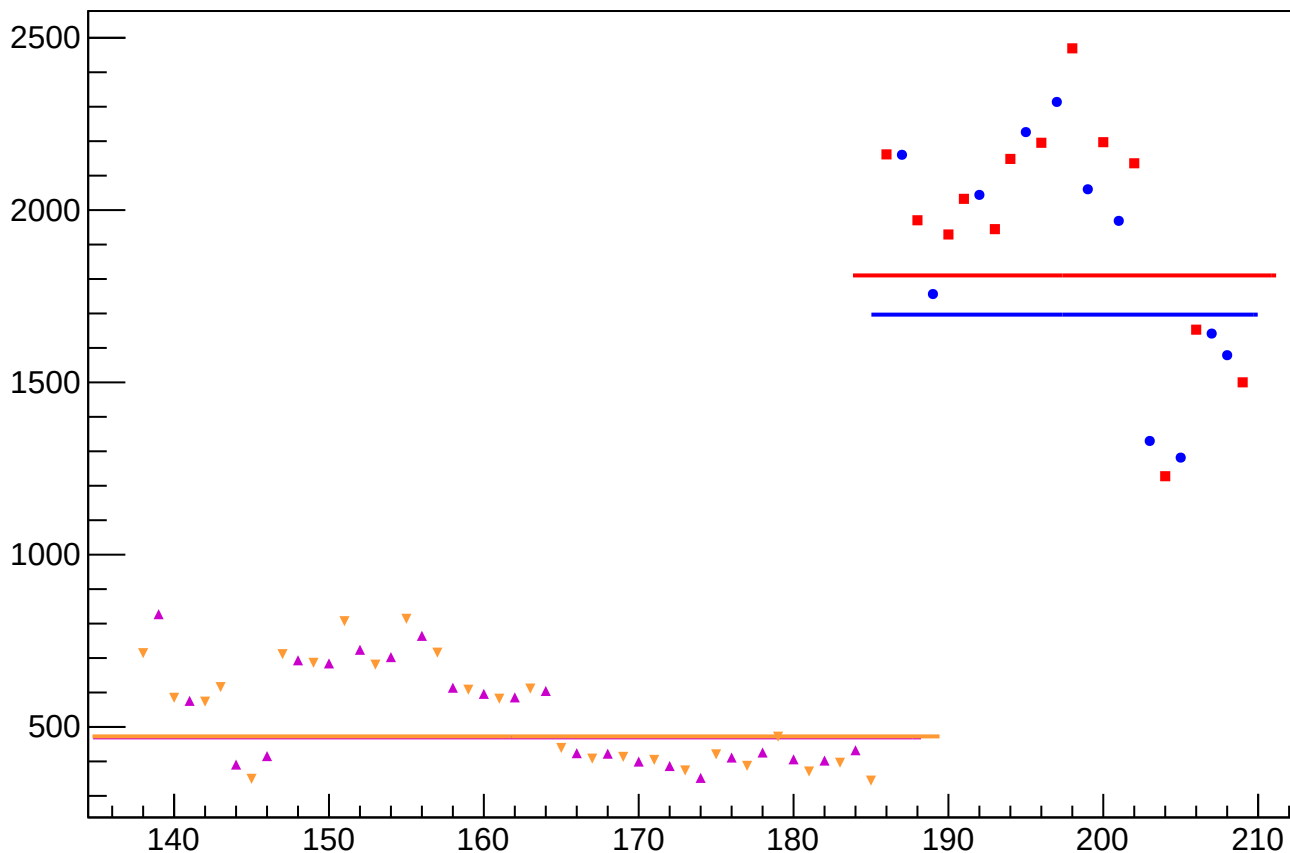
Right: -33.192 ± 443.040 $\chi^2/\text{NDF}: 27.9/23$

In: -41.692 ± 114.492 $\chi^2/\text{NDF}: 48.9/33$

Out: -378.568 ± 112.553 $\chi^2/\text{NDF}: 73.5/37$

All: -213.007 ± 80.264 $\chi^2/\text{NDF}: 126.8/71$

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1696.639+/-0.442 χ^2/NDF : 640591.1/10

Left Out: 472.569+/-0.081 χ^2/NDF : 2508168.9/24

Right Out: 1810.376+/-0.444 χ^2/NDF : 727360.0/12

Left In: 469.761+/-0.082 χ^2/NDF : 2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

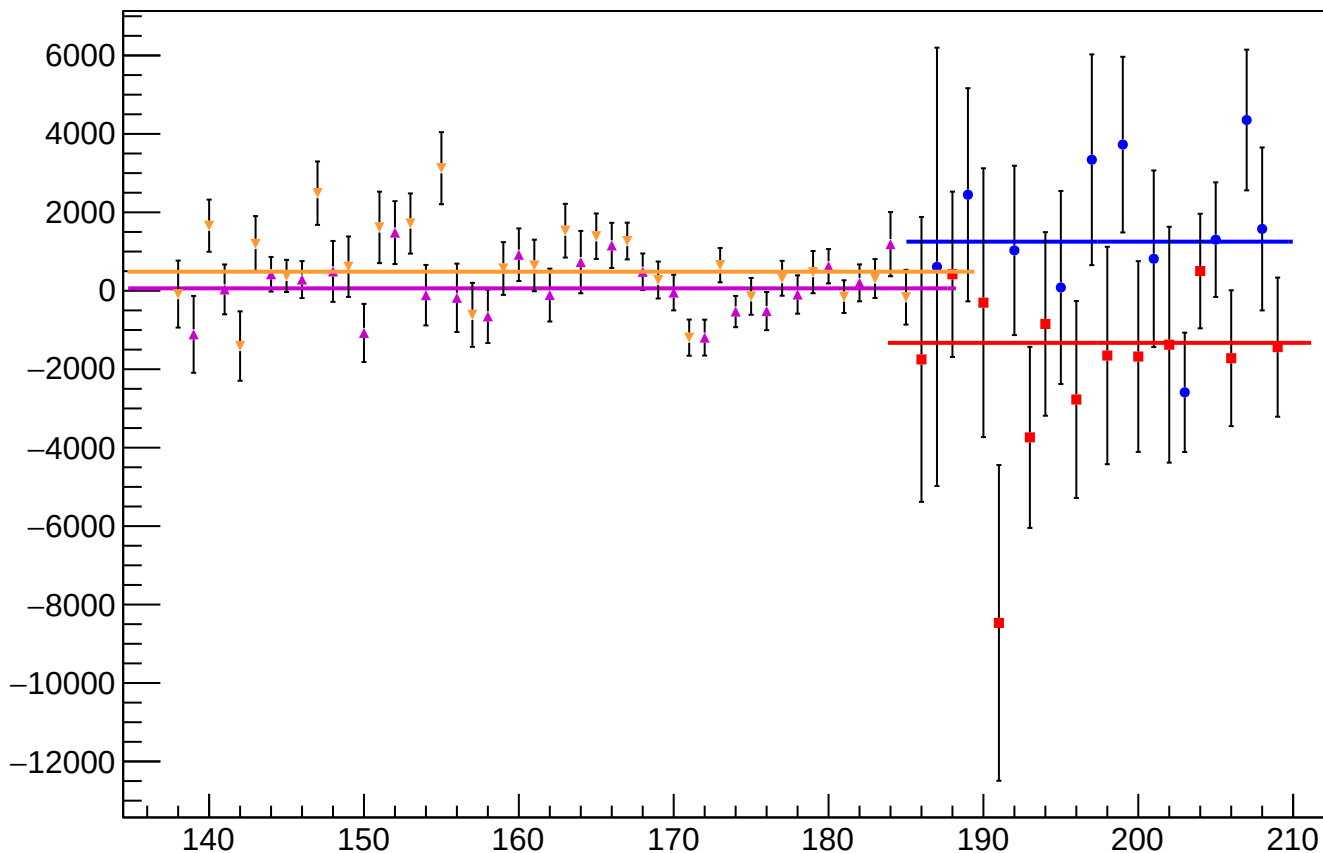
Right: 1753.330+/-0.313 χ^2/NDF : 1400903.4/23

In: 510.856+/-0.081 χ^2/NDF : 10192368.7/33

Out: 515.605+/-0.080 χ^2/NDF : 12032674.2/37

All: 513.271+/-0.057 χ^2/NDF : 22226792.5/71

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1252.548 $\pm$ 629.213 χ^2 /NDF: 11.7/10

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -1327.193 $\pm$ 631.599 χ^2 /NDF: 7.1/12

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

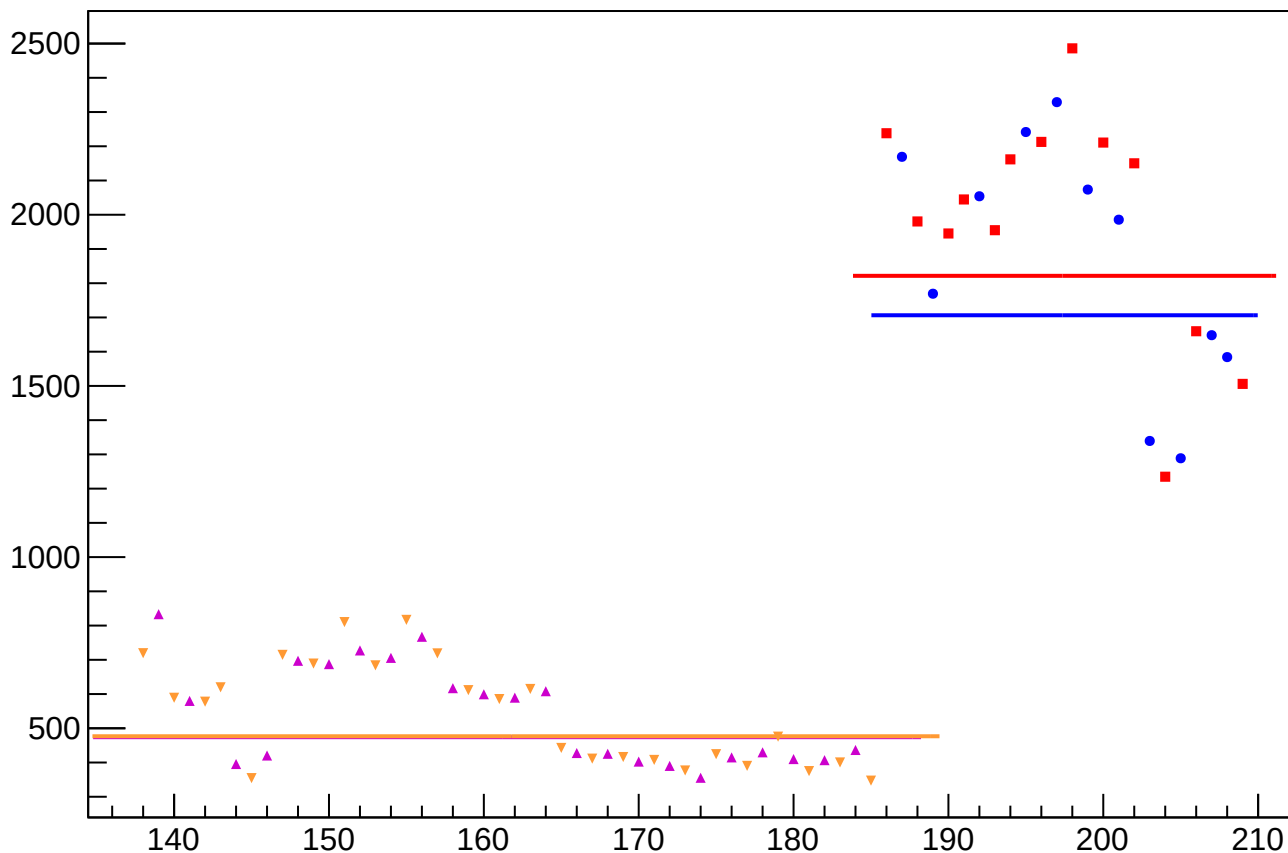
Right: -32.441 $\pm$ 445.762 χ^2 /NDF: 27.1/23

In: 101.867 $\pm$ 115.455 χ^2 /NDF:46.3/33

Out: 428.103 $\pm$ 113.469 χ^2 /NDF:71.1/37

All: 267.814 $\pm$ 80.928 χ^2 /NDF: 121.4/71

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1706.408 $\pm$ 0.445 χ^2 /NDF: 642200.2/10

Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF: 2472737.6/24

Right Out: 1821.586 $\pm$ 0.447 χ^2 /NDF: 737748.0/12

Left In: 473.983 $\pm$ 0.083 χ^2 /NDF: 2087113.7/22

Left: 475.361 $\pm$ 0.058 χ^2 /NDF: 4560392.0/47

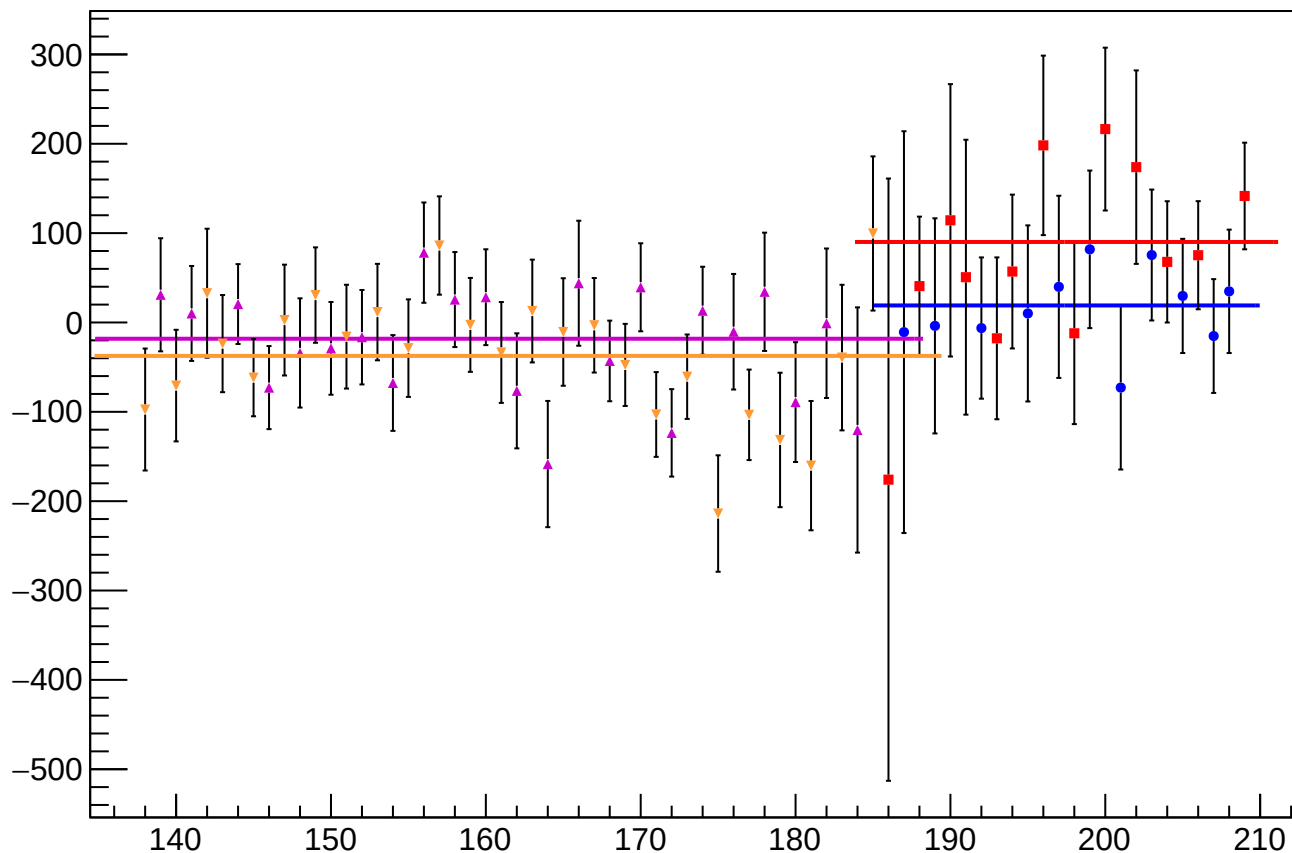
Right: 1763.779 $\pm$ 0.315 χ^2 /NDF: 1413329.4/23

In: 515.478 $\pm$ 0.082 χ^2 /NDF: 10143787.7/33

Out: 520.097 $\pm$ 0.080 χ^2 /NDF: 11986075.3/37

All: 517.828 $\pm$ 0.057 χ^2 /NDF: 22131491.8/73

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 19.057 ± 25.133 $\chi^2/\text{NDF}: 2.7/10$

Left Out: -37.413 ± 11.390 $\chi^2/\text{NDF}: 30.5/24$

Right Out: 90.099 ± 24.331 $\chi^2/\text{NDF}: 8.3/12$

Left In: -18.210 ± 11.788 $\chi^2/\text{NDF}: 23.0/22$

Left: -28.141 ± 8.191 $\chi^2/\text{NDF}: 54.8/47$

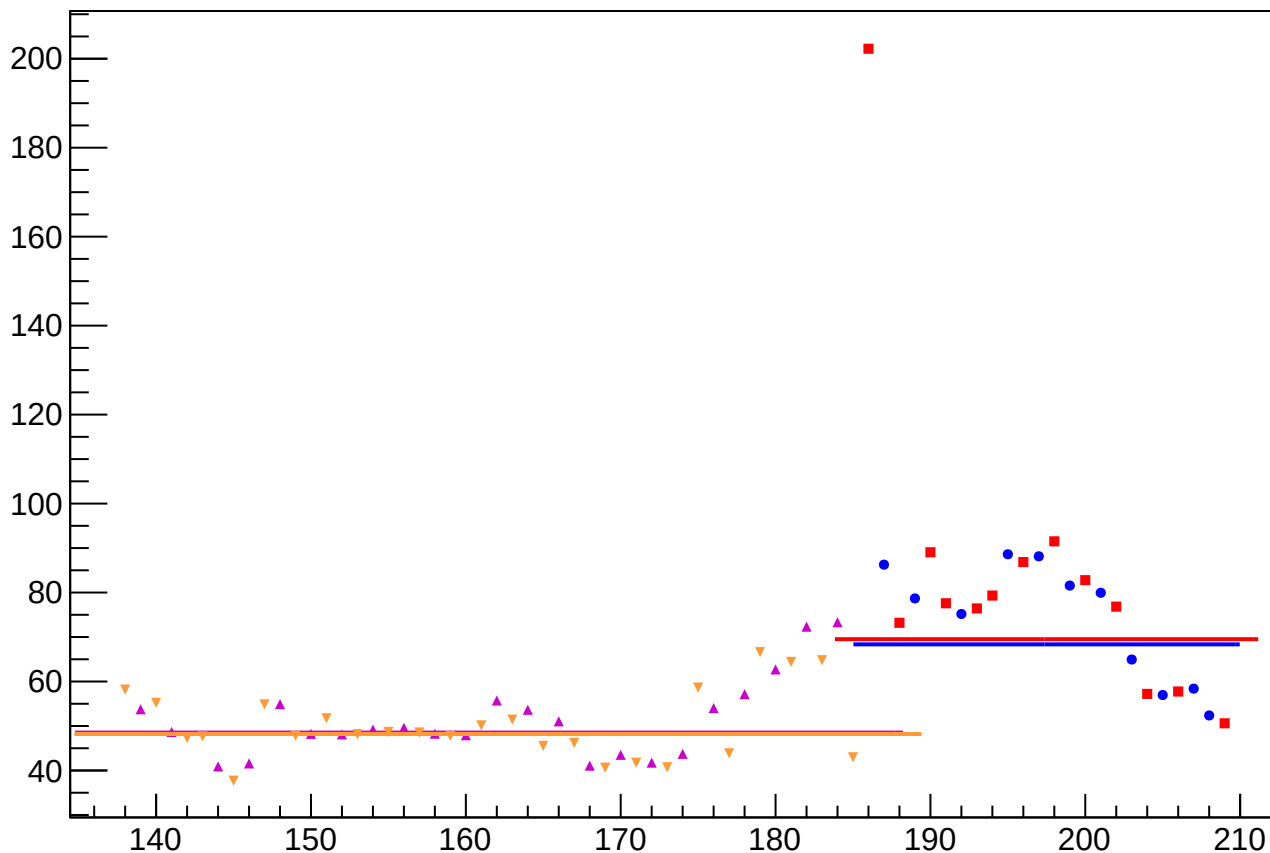
Right: 55.731 ± 17.481 $\chi^2/\text{NDF}: 15.1/23$

In: -11.491 ± 10.672 $\chi^2/\text{NDF}: 27.5/33$

Out: -14.493 ± 10.315 $\chi^2/\text{NDF}: 61.3/37$

All: -13.043 ± 7.417 $\chi^2/\text{NDF}: 88.8/71$

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 68.351+/-0.018 χ^2/NDF : 502950.6/10

Left Out: 48.200+/-0.008 χ^2/NDF : 750196.2/24

Right Out: 69.517+/-0.017 χ^2/NDF : 937555.0/12

Left In: 48.527+/-0.008 χ^2/NDF : 675340.8/22

Left: 48.358+/-0.006 χ^2/NDF : 1426333.4/47

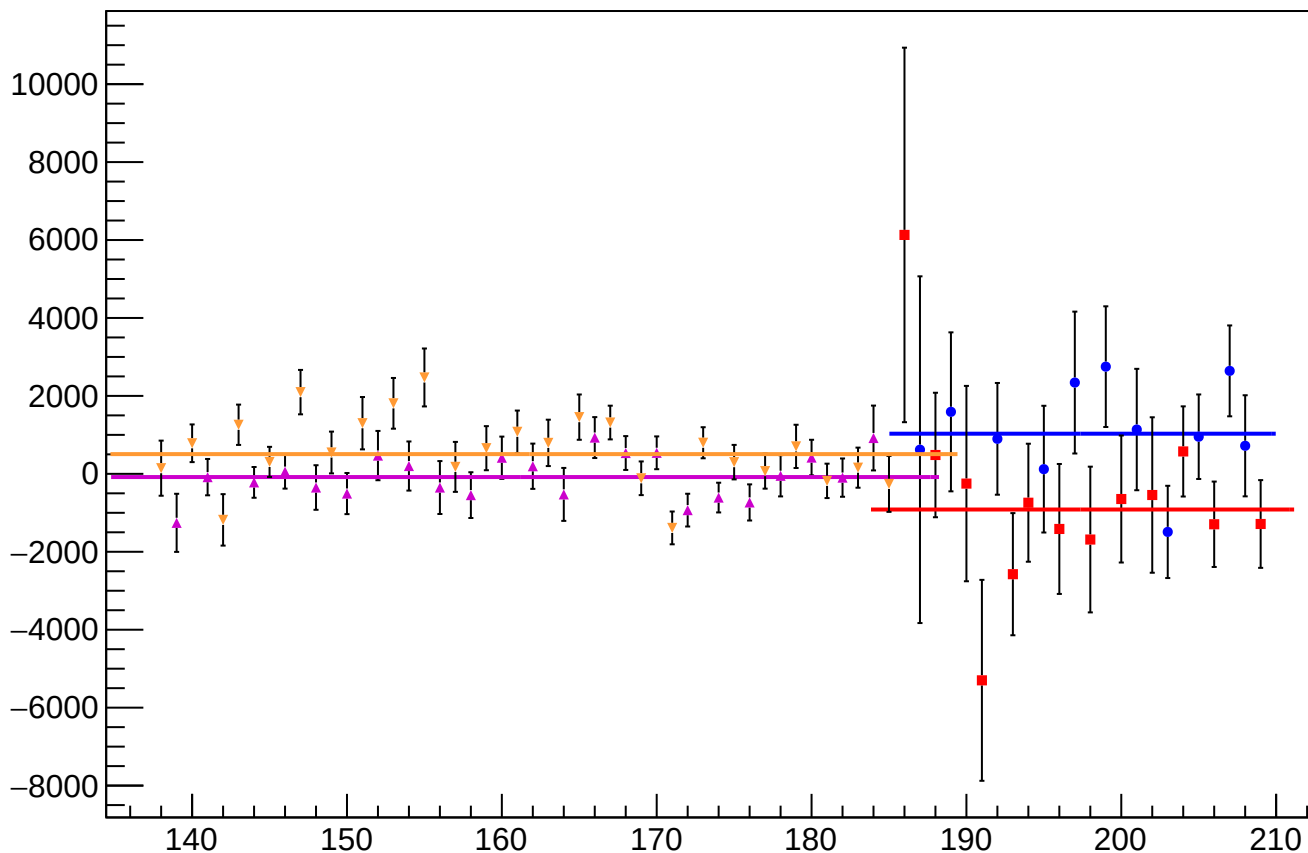
Right: 68.953+/-0.012 χ^2/NDF : 1442726.4/23

In: 52.101+/-0.008 χ^2/NDF : 2198245.4/33

Out: 52.031+/-0.007 χ^2/NDF : 2947047.8/37

All: 52.065+/-0.005 χ^2/NDF : 5145337.5/71

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1030.022+/-439.358 χ^2/NDF : 8.7/10

Left Out: 506.205+/-103.468 χ^2/NDF :65.7/24

Right Out: -915.379+/-437.229 χ^2/NDF : 9.2/12

Left In: -82.421+/-105.935 χ^2/NDF :25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

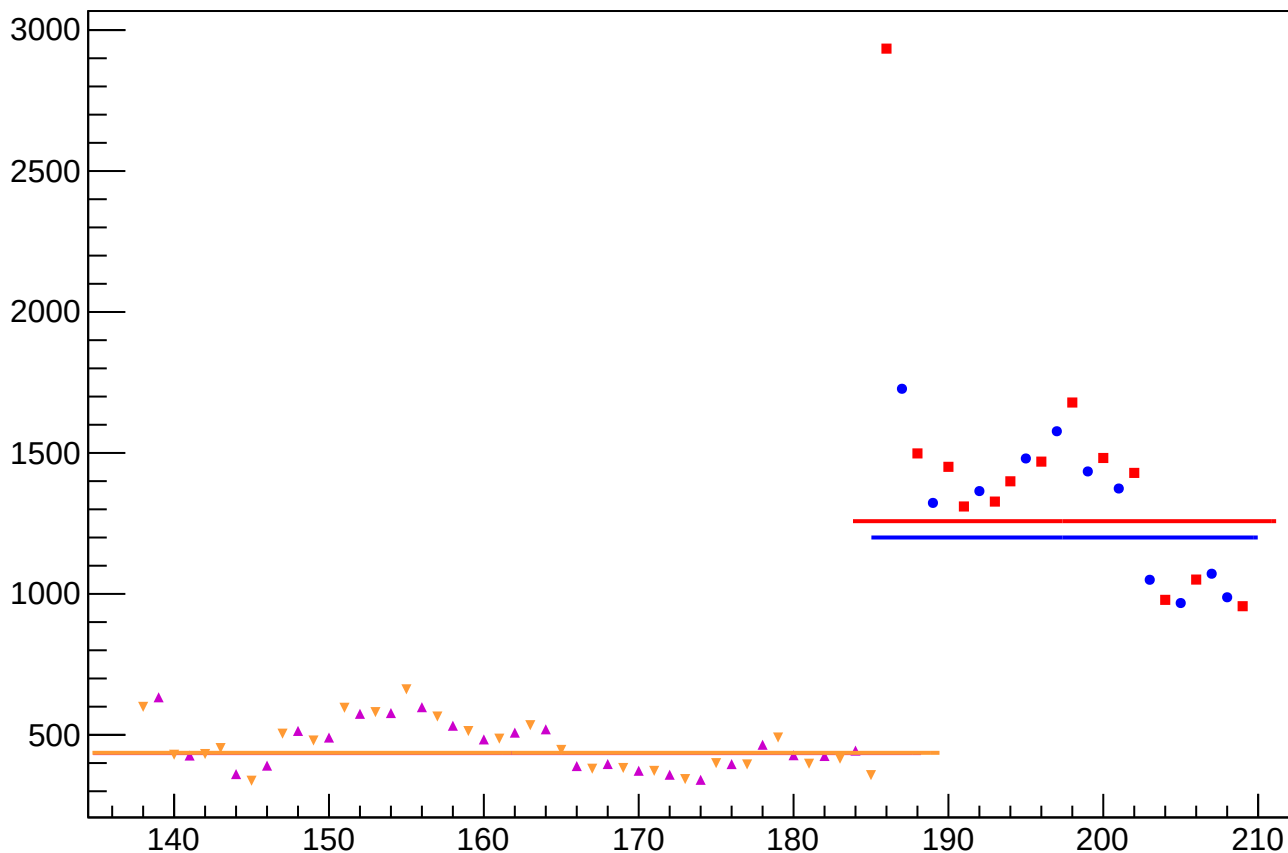
Right: 52.598+/-309.918 χ^2/NDF : 27.7/23

In: -21.301+/-102.984 χ^2/NDF :40.1/33

Out: 430.818+/-100.687 χ^2/NDF :84.9/37

All: 209.857+/-71.995 χ^2/NDF : 134.9/71

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1200.108+/-0.311 χ^2/NDF : 479375.7/10

Left Out: 436.301+/-0.073 χ^2/NDF : 1179348.4/24

Right Out: 1257.998+/-0.309 χ^2/NDF : 840122.5/12

Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

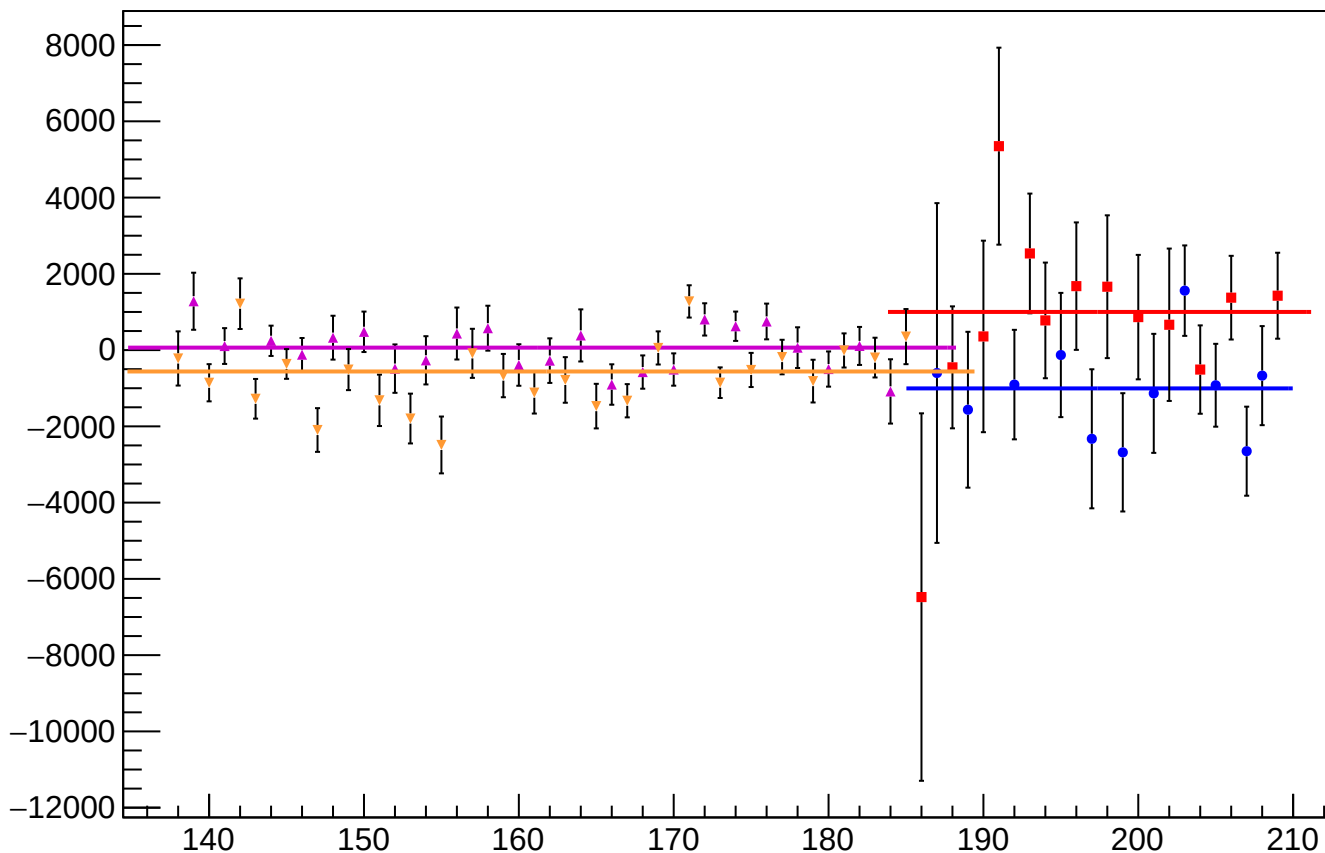
Right: 1229.193+/-0.219 χ^2/NDF : 1336943.2/23

In: 477.296+/-0.073 χ^2/NDF : 7234854.3/33

Out: 479.877+/-0.071 χ^2/NDF : 8708605.2/37

All: 478.616+/-0.051 χ^2/NDF : 15944101.5/71

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1004.605+/-440.126 χ^2/NDF : 8.8/10

Left Out: -560.684+/-104.207 χ^2/NDF : 61.8/24

Right Out: 1000.849+/-437.962 χ^2/NDF : 9.4/12

Left In: 64.594+/-106.708 χ^2/NDF : 25.2/22

Left: -255.457+/-74.554 χ^2/NDF : 104.5/47

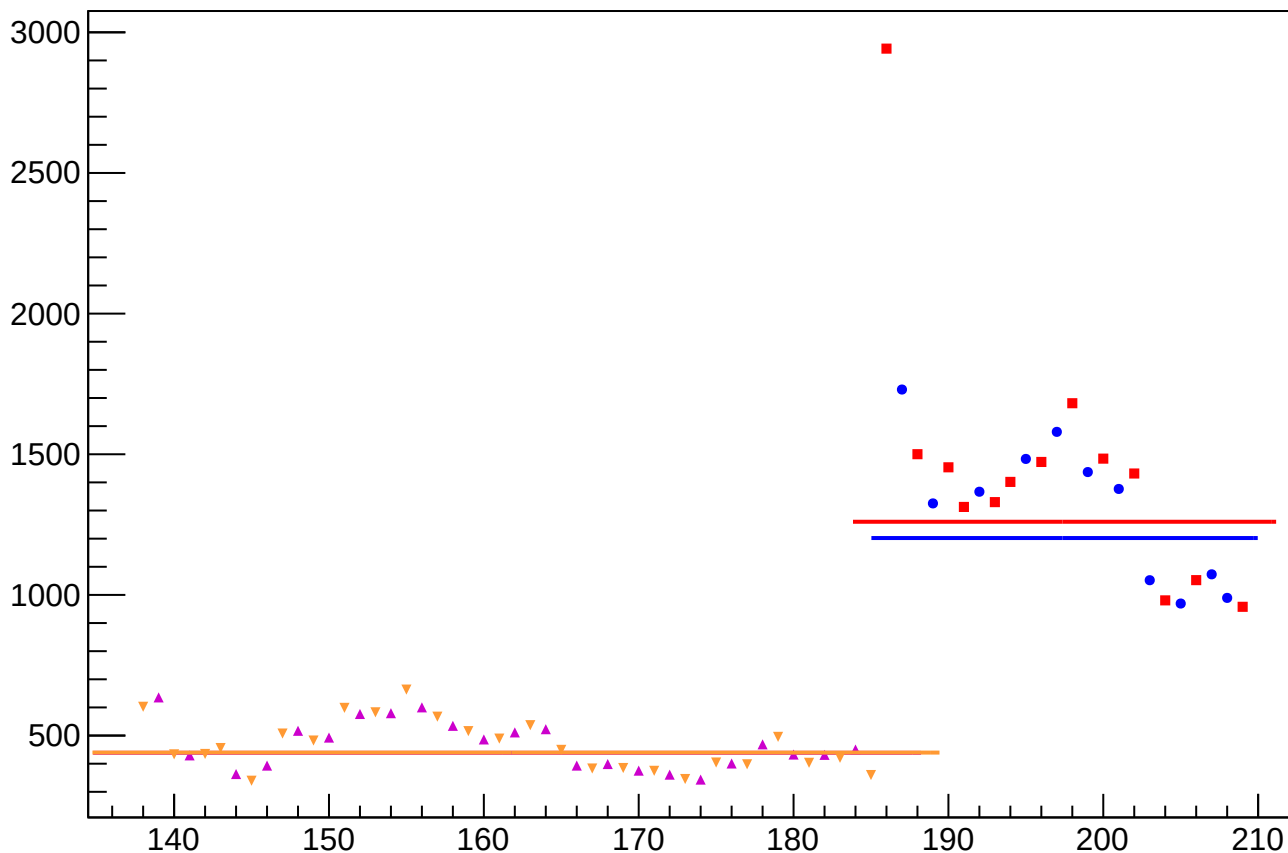
Right: 3.066+/-310.448 χ^2/NDF : 28.6/23

In: 5.235+/-103.703 χ^2/NDF : 39.6/33

Out: -477.016+/-101.377 χ^2/NDF : 83.2/37

All: -241.360+/-72.493 χ^2/NDF : 133.8/71

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1202.206 $\pm$ 0.311 χ^2/NDF : 479548.4/10

Left Out: 439.527 $\pm$ 0.074 χ^2/NDF : 1163352.8/24

Right Out: 1260.085 $\pm$ 0.310 χ^2/NDF : 840734.7/12

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

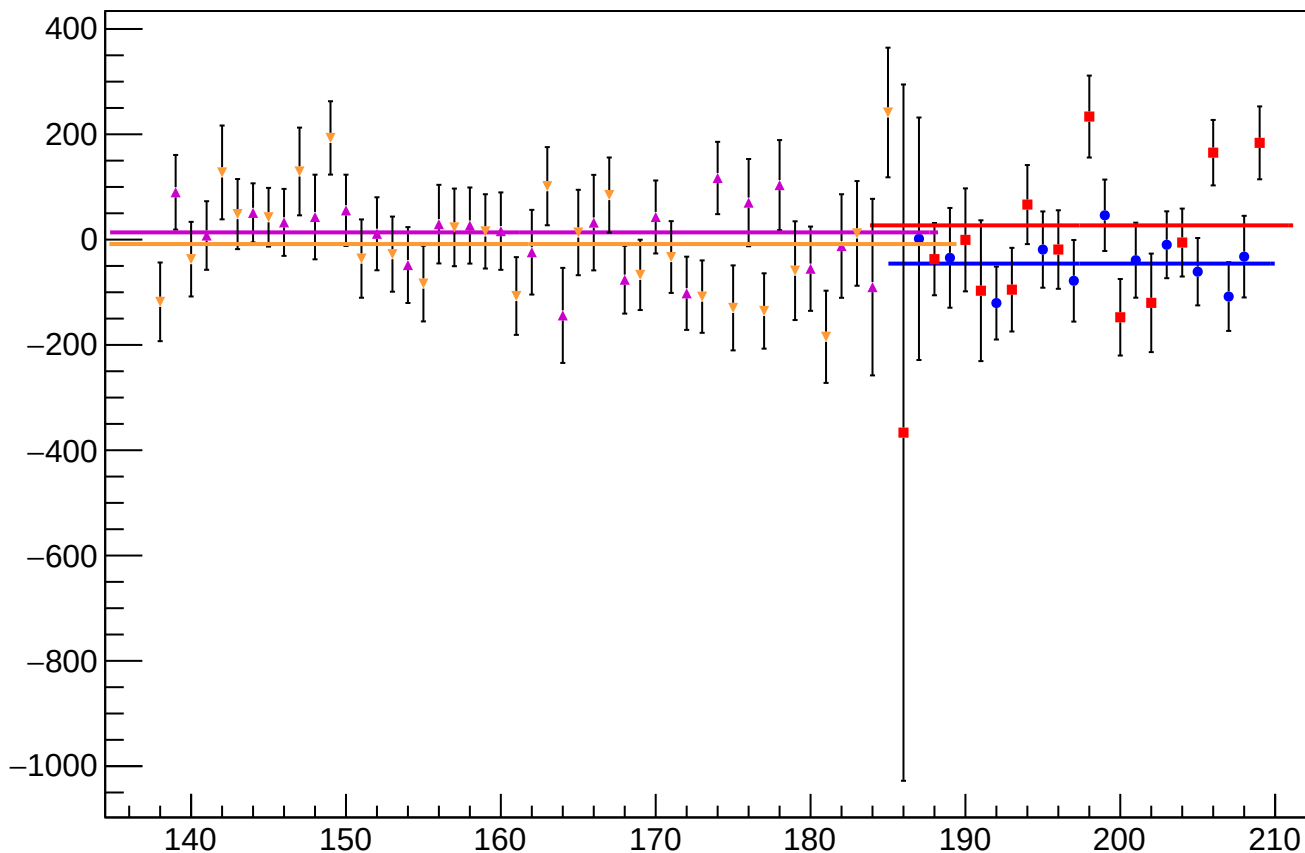
Right: 1231.288 $\pm$ 0.220 χ^2/NDF : 1337662.3/23

In: 480.944 $\pm$ 0.073 χ^2/NDF : 7179413.0/33

Out: 483.493 $\pm$ 0.072 χ^2/NDF : 8648556.1/37

All: 482.247 $\pm$ 0.051 χ^2/NDF : 15828586.8/71

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -45.571 ± 22.341 χ^2/NDF : 4.7/10

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: 27.033 ± 21.993 χ^2/NDF : 30.8/12

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

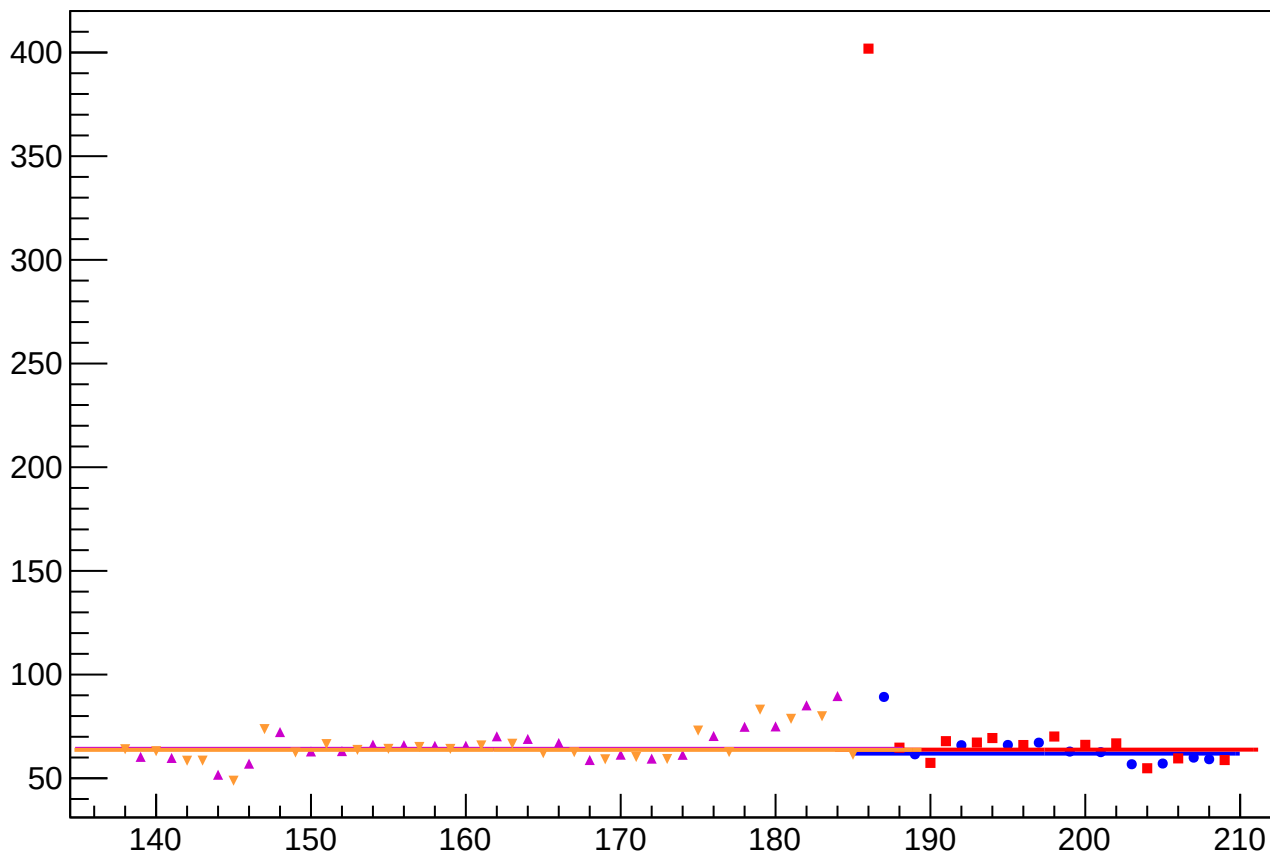
Right: -8.699 ± 15.673 χ^2/NDF : 40.9/23

In: -5.507 ± 12.723 χ^2/NDF : 25.7/33

Out: 2.772 ± 12.355 χ^2/NDF : 74.2/37

All: -1.246 ± 8.864 χ^2/NDF : 100.1/71

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.886 $\pm$ 0.016 χ^2 /NDF: 80055.3/10

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 63.798 $\pm$ 0.016 χ^2 /NDF: 625961.7/12

Left In: 64.189 $\pm$ 0.011 χ^2 /NDF: 429670.3/22

Left: 63.934 $\pm$ 0.008 χ^2 /NDF: 879161.0/47

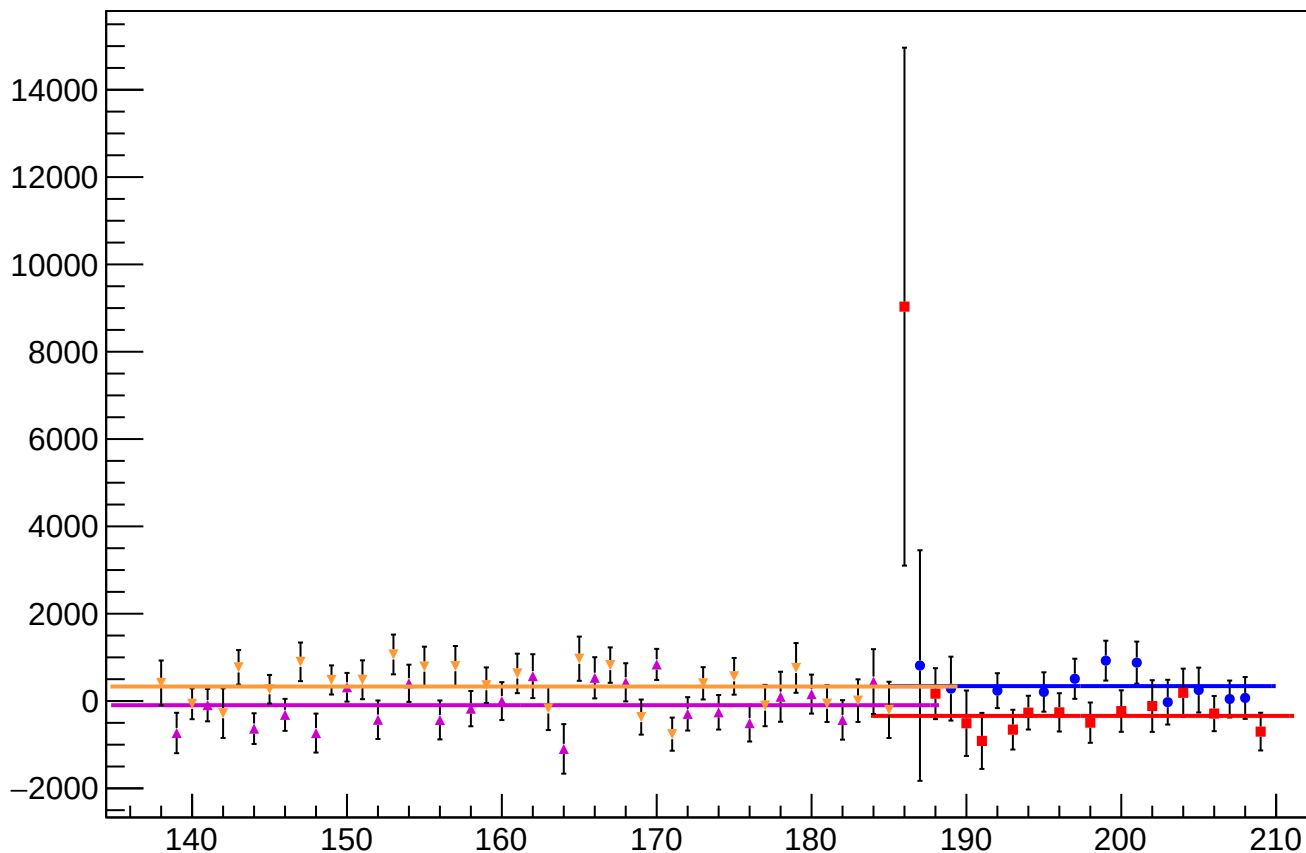
Right: 62.857 $\pm$ 0.011 χ^2 /NDF: 713456.4/23

In: 63.442 $\pm$ 0.009 χ^2 /NDF: 524091.8/33

Out: 63.728 $\pm$ 0.009 χ^2 /NDF: 1074430.2/37

All: 63.589 $\pm$ 0.006 χ^2 /NDF: 1599042.2/71

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 341.333+/-149.763 χ^2/NDF : 4.6/10

Left Out: 331.739+/-86.071 χ^2/NDF : 29.9/24

Right Out: -340.619+/-140.517 χ^2/NDF : 6.6/12

Left In: -95.910+/-88.656 χ^2/NDF : 28.7/22

Left: 124.240+/-61.755 χ^2/NDF : 70.5/47

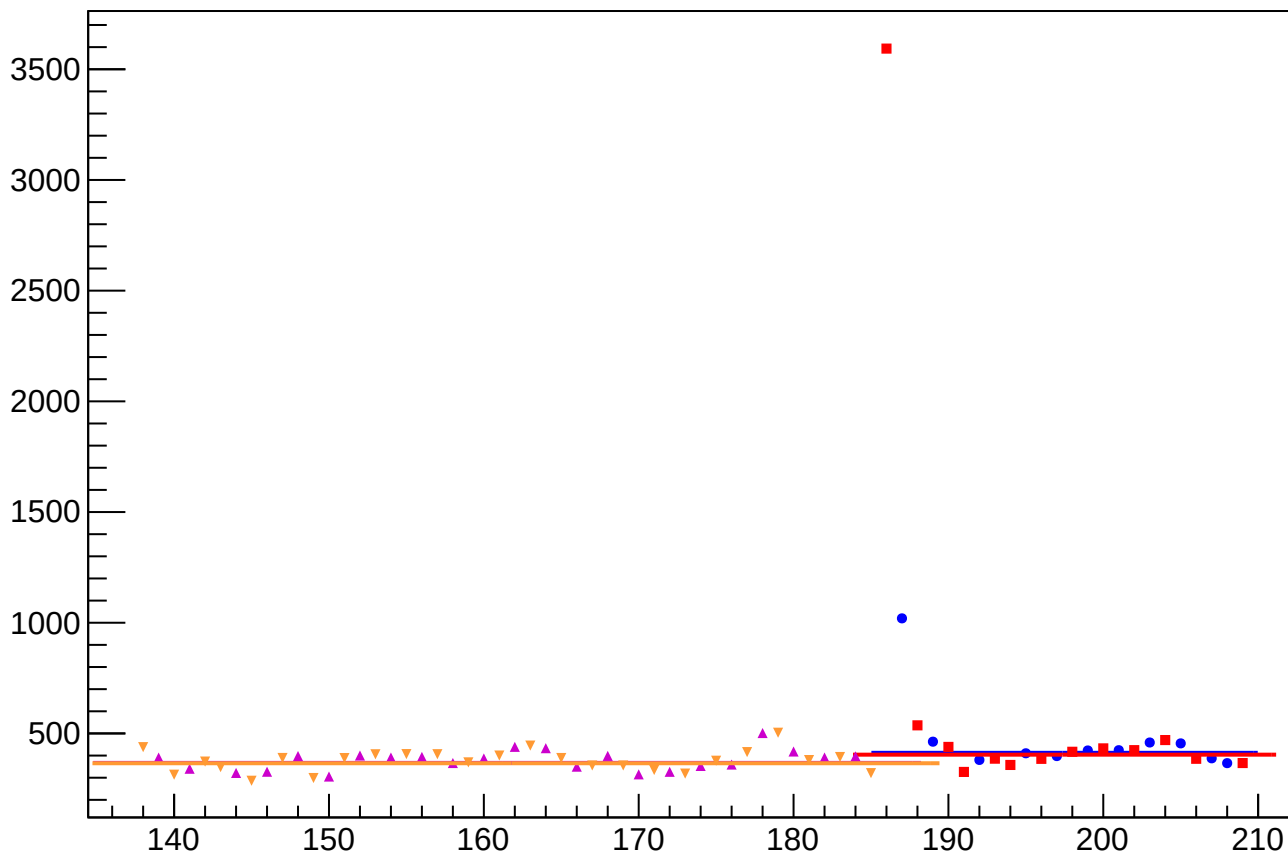
Right: -21.343+/-102.474 χ^2/NDF : 22.2/23

In: 17.553+/-76.291 χ^2/NDF : 39.6/33

Out: 148.300+/-73.396 χ^2/NDF : 53.1/37

All: 85.454+/-52.893 χ^2/NDF : 94.2/71

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 412.417 $\pm$ 0.106 χ^2 /NDF: 188733.3/10

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 404.097 $\pm$ 0.099 χ^2 /NDF: 810288.6/12

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

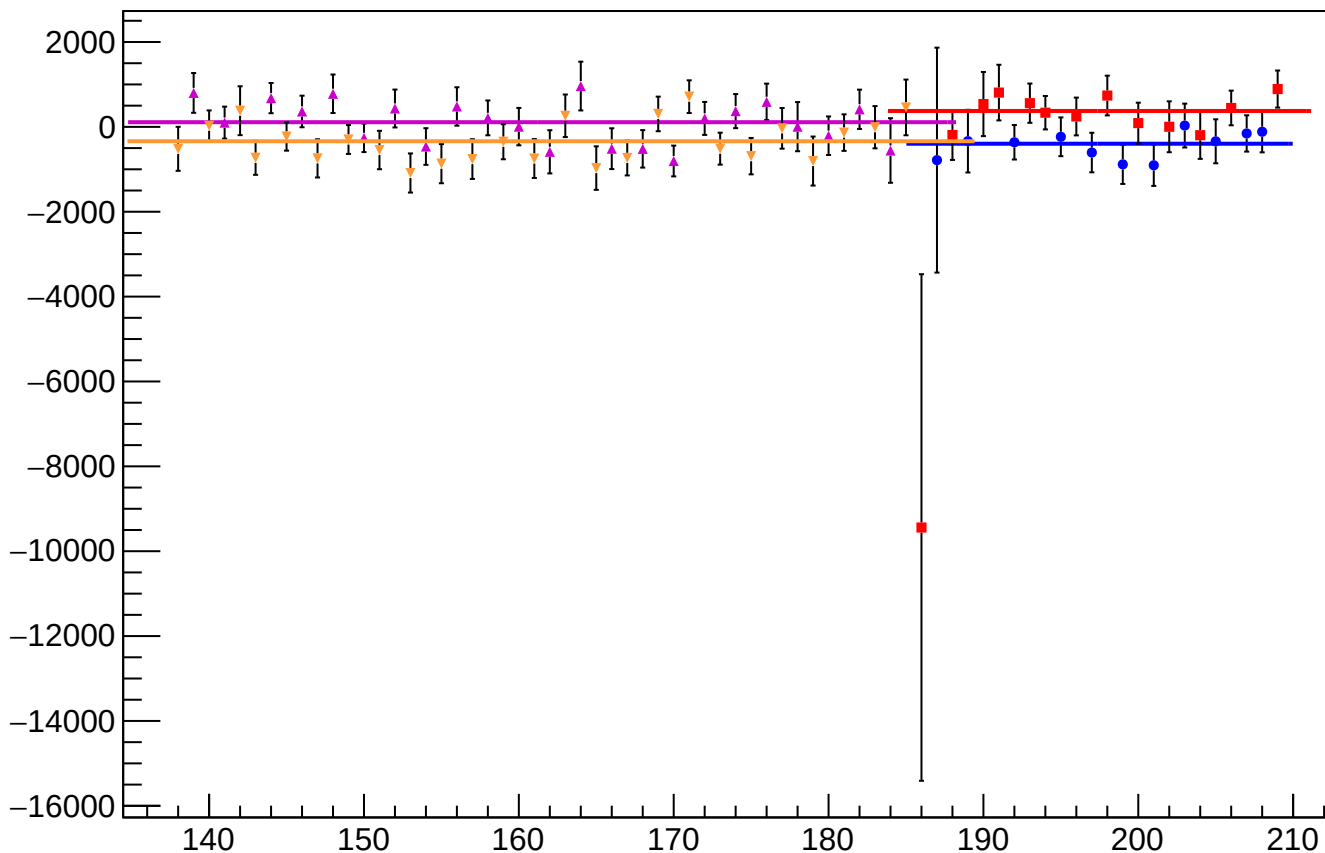
Right: 407.992 $\pm$ 0.072 χ^2 /NDF: 1002305.2/23

In: 378.730 $\pm$ 0.054 χ^2 /NDF: 803471.7/33

Out: 375.925 $\pm$ 0.052 χ^2 /NDF: 1539292.3/37

All: 377.273 $\pm$ 0.037 χ^2 /NDF: 2344167.9/71

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -397.168 ± 151.573 χ^2/NDF : 3.9/10

Left Out: -338.528 ± 87.450 χ^2/NDF : 28.2/24

Right Out: 374.604 ± 142.436 χ^2/NDF : 8.2/12

Left In: 110.341 ± 90.084 χ^2/NDF : 29.2/22

Left: -120.751 ± 62.747 χ^2/NDF : 70.2/47

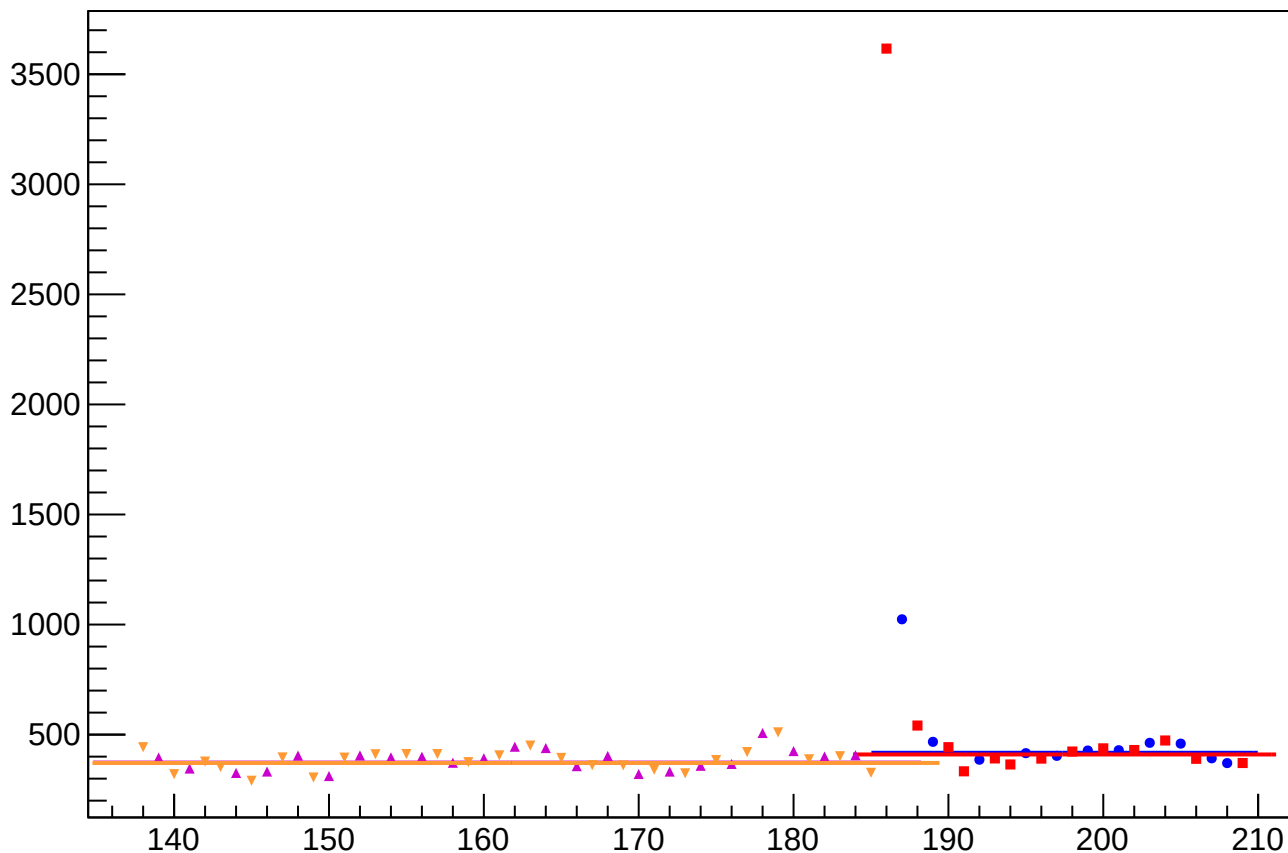
Right: 12.679 ± 103.797 χ^2/NDF : 25.9/23

In: -22.131 ± 77.439 χ^2/NDF : 41.4/33

Out: -143.303 ± 74.525 χ^2/NDF : 54.6/37

All: -85.040 ± 53.698 χ^2/NDF : 97.3/71

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 417.524 $\pm$ 0.107 χ^2 /NDF: 183377.3/10

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 409.813 $\pm$ 0.101 χ^2 /NDF: 798172.8/12

Left In: 372.938 $\pm$ 0.064 χ^2 /NDF: 467340.9/22

Left: 372.123 $\pm$ 0.044 χ^2 /NDF: 1071729.1/47

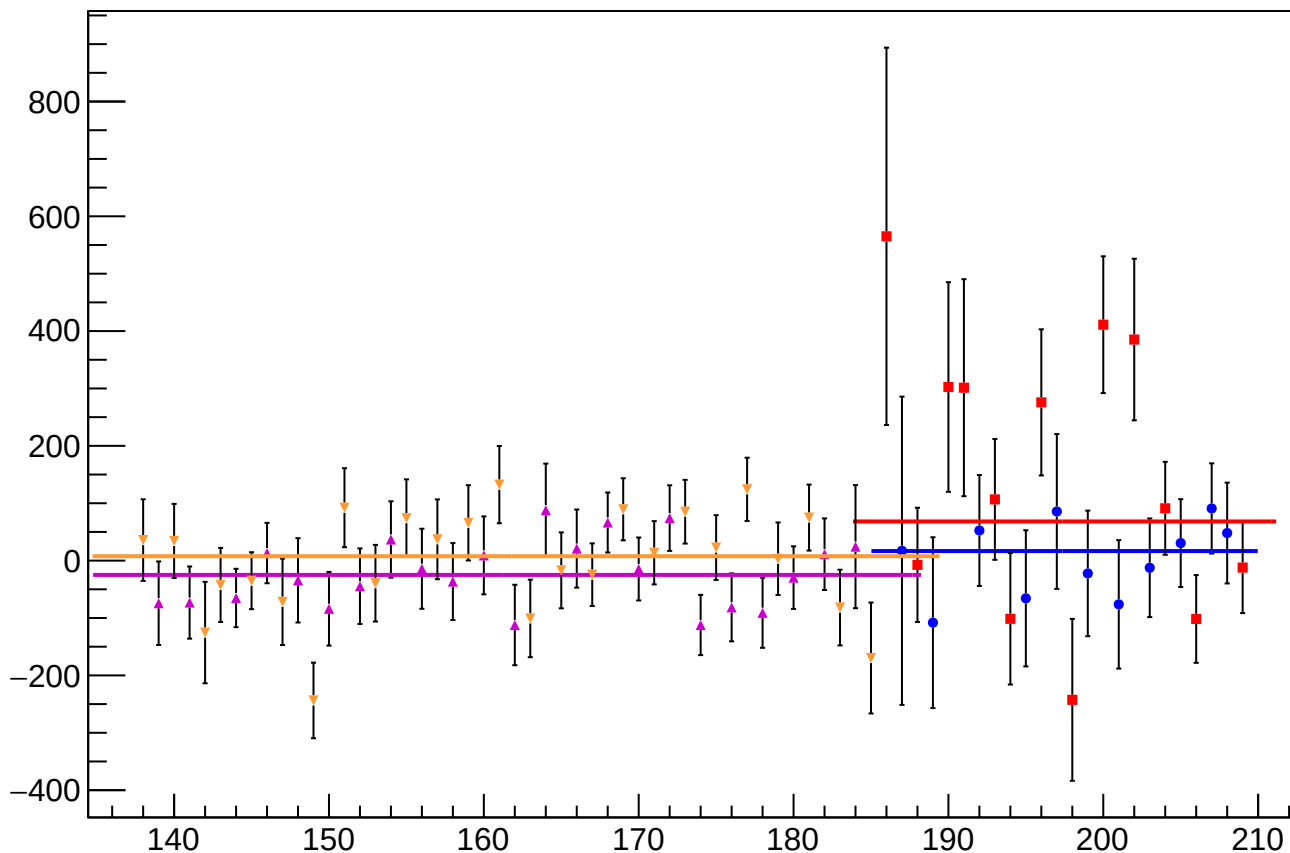
Right: 413.429 $\pm$ 0.073 χ^2 /NDF: 984298.3/23

In: 384.576 $\pm$ 0.055 χ^2 /NDF: 778601.0/33

Out: 381.884 $\pm$ 0.053 χ^2 /NDF: 1508128.7/37

All: 383.178 $\pm$ 0.038 χ^2 /NDF: 2287984.3/71

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 16.667 ± 30.817 $\chi^2/\text{NDF}: 3.6/10$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 68.254 ± 30.865 $\chi^2/\text{NDF}: 35.3/12$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

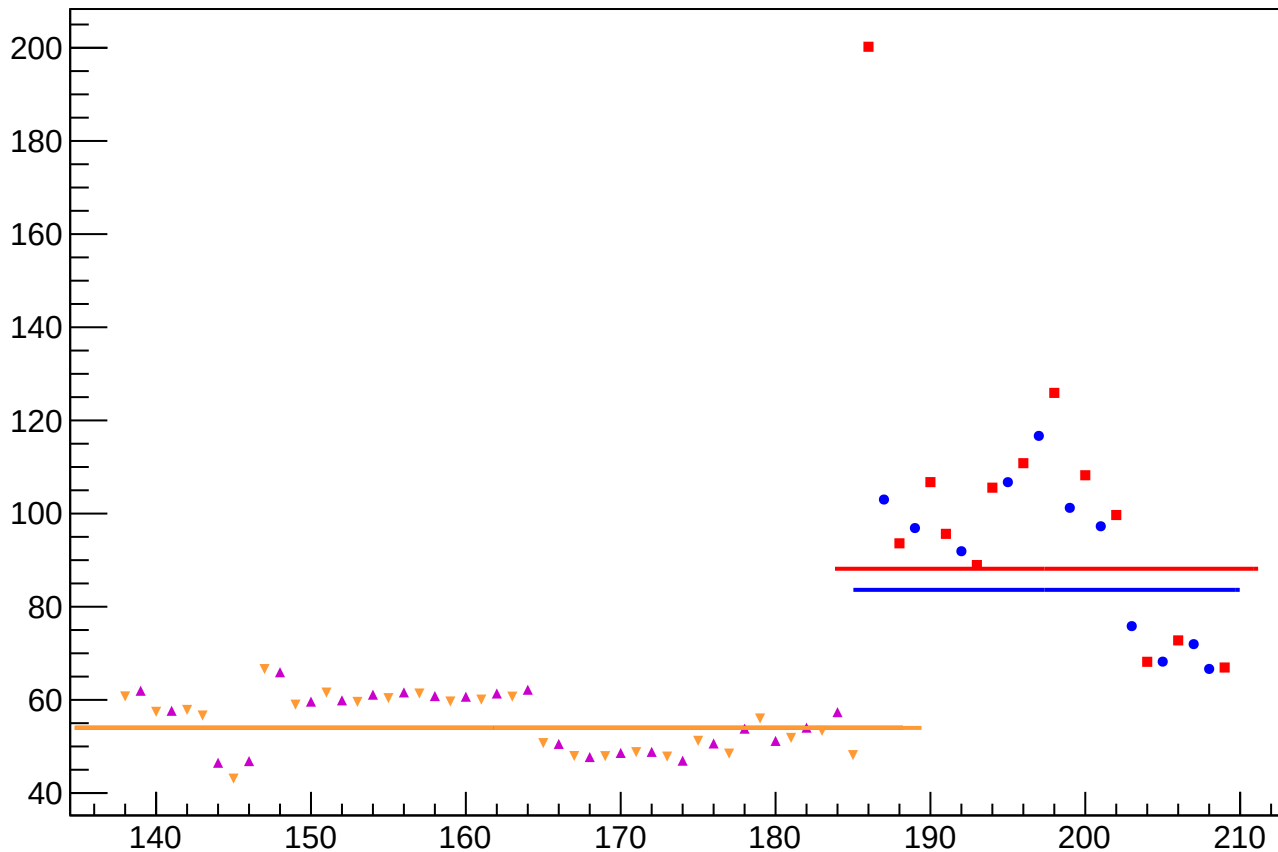
Right: 42.420 ± 21.808 $\chi^2/\text{NDF}: 40.2/23$

In: -18.586 ± 12.000 $\chi^2/\text{NDF}: 24.8/33$

Out: 16.435 ± 11.710 $\chi^2/\text{NDF}: 84.0/37$

All: -0.646 ± 8.381 $\chi^2/\text{NDF}: 113.2/71$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 83.625 $\pm$ 0.022 χ^2/NDF : 534823.9/10

Left Out: 53.984 $\pm$ 0.009 χ^2/NDF : 458972.1/24

Right Out: 88.154 $\pm$ 0.022 χ^2/NDF : 930935.7/12

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

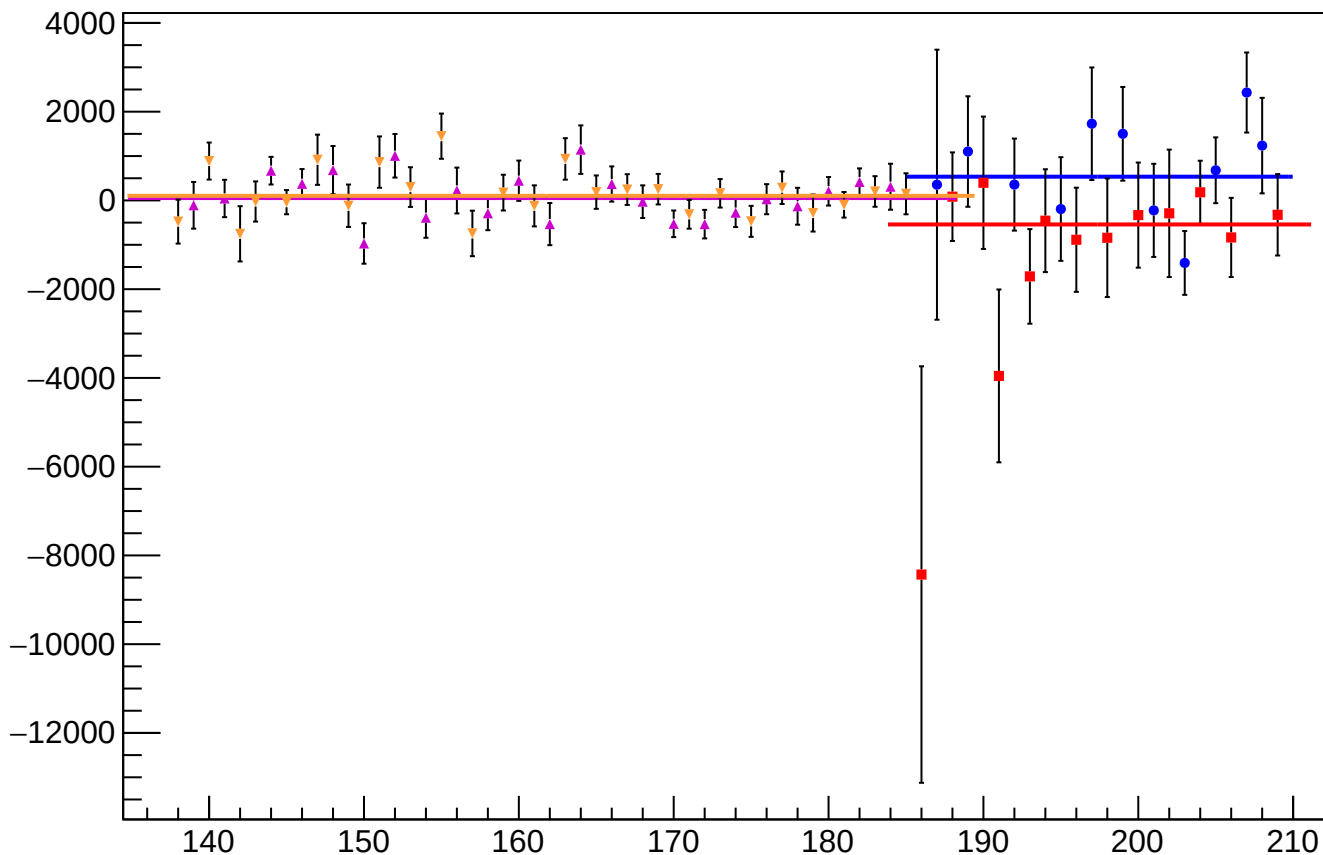
Right: 85.886 $\pm$ 0.015 χ^2/NDF : 1487329.9/23

In: 58.516 $\pm$ 0.008 χ^2/NDF : 2543716.7/33

Out: 58.902 $\pm$ 0.008 χ^2/NDF : 3488393.0/37

All: 58.714 $\pm$ 0.006 χ^2/NDF : 6033169.5/71

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 534.993+/-305.886 χ^2/NDF : 15.1/10

Left Out: 103.768+/-79.344 χ^2/NDF :31.0/24

Right Out: -541.191+/-311.677 χ^2/NDF : 9.3/12

Left In: 53.493+/-81.201 χ^2/NDF :34.1/22

Left: 79.212+/-56.750 χ^2/NDF : 65.3/47

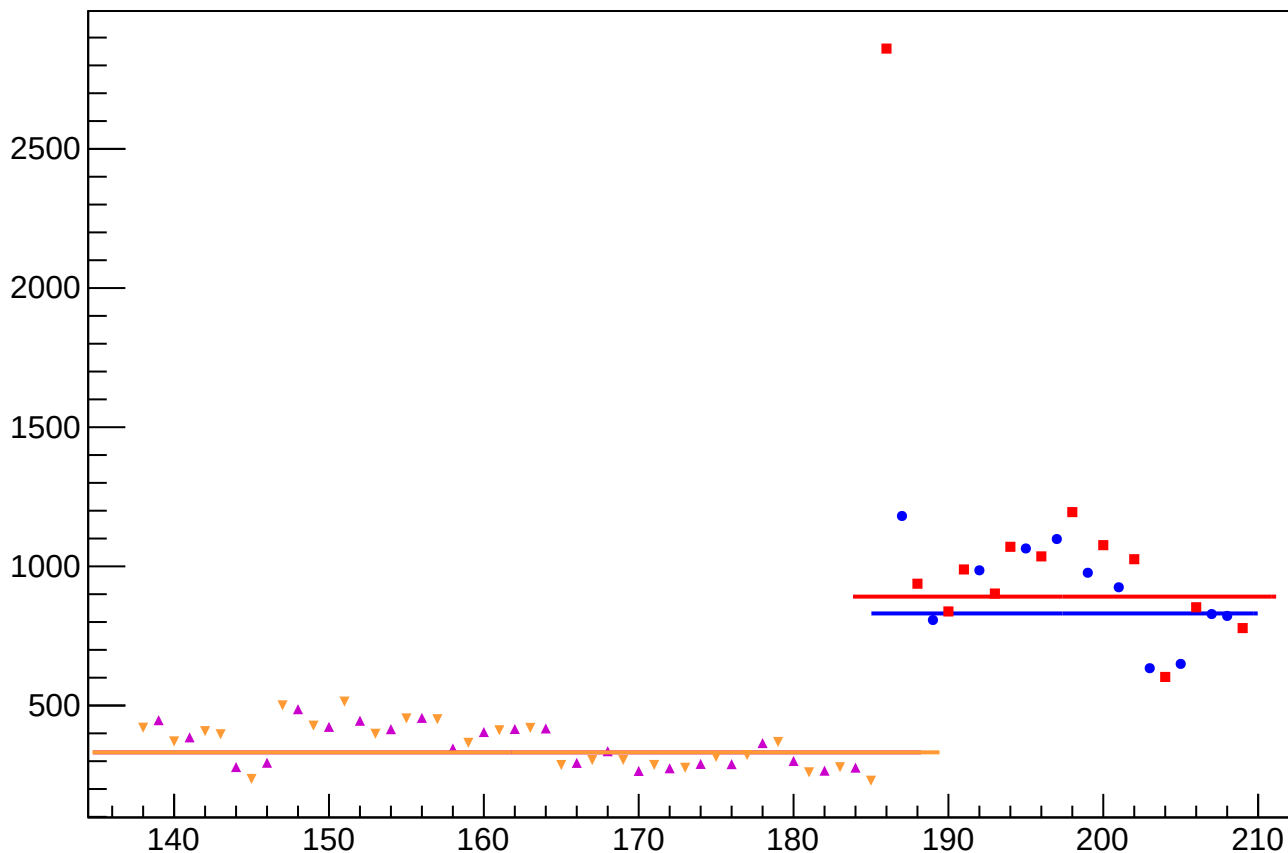
Right: 6.993+/-218.313 χ^2/NDF : 30.4/23

In: 85.191+/-78.483 χ^2/NDF :51.5/33

Out: 64.514+/-76.892 χ^2/NDF :44.3/37

All: 74.641+/-54.925 χ^2/NDF : 95.8/71

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 830.858+/-0.216 χ^2/NDF : 564442.7/10

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 891.285+/-0.220 χ^2/NDF : 975286.0/12

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

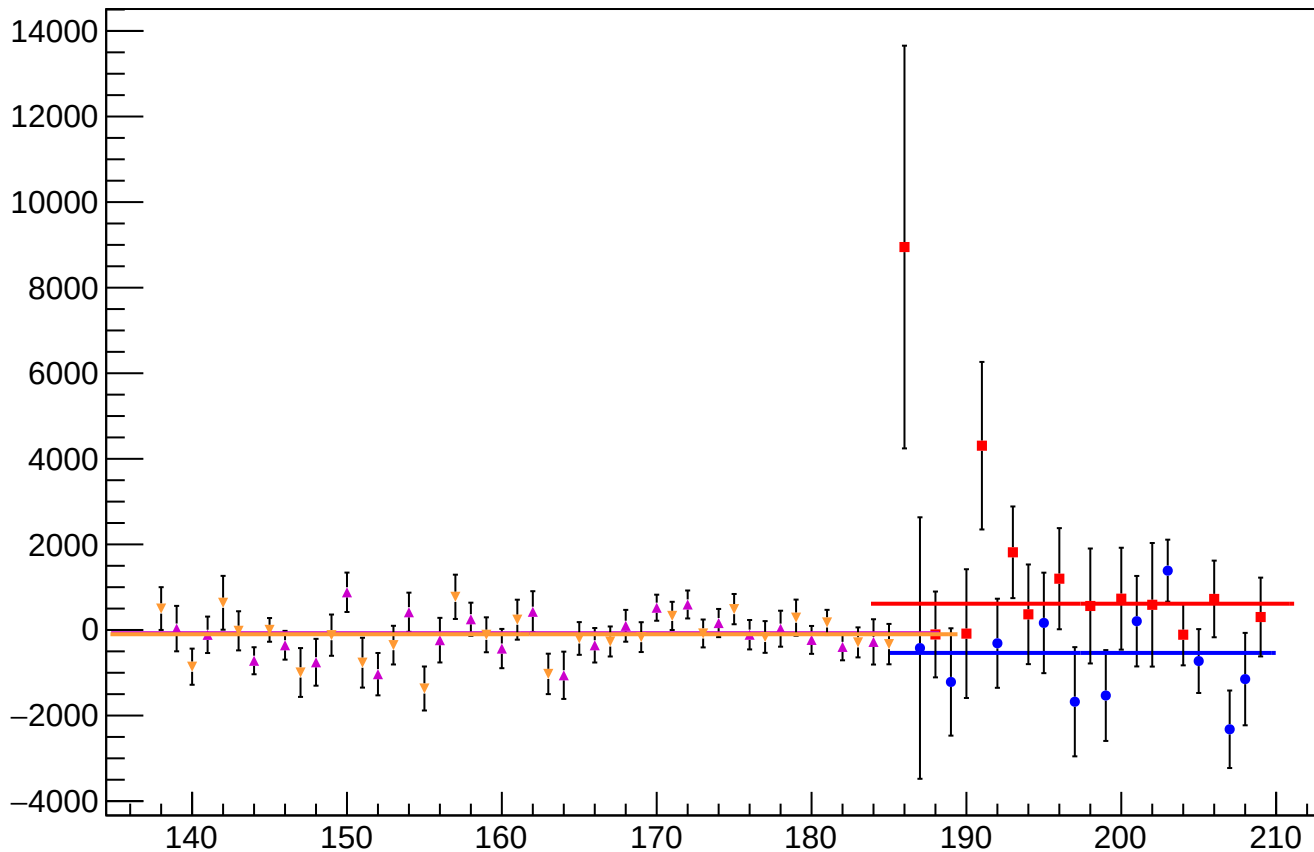
Right: 860.505+/-0.154 χ^2/NDF : 1578022.2/23

In: 364.528+/-0.055 χ^2/NDF : 6843536.1/33

Out: 365.824+/-0.054 χ^2/NDF : 8740017.0/37

All: 365.189+/-0.039 χ^2/NDF : 15583831.2/73

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -536.167+/-307.672 χ^2/NDF : 14.2/10

Left Out: -99.785+/-80.428 χ^2/NDF : 30.7/24

Right Out: 613.749+/-313.394 χ^2/NDF : 10.1/12

Left In: -75.579+/-82.319 χ^2/NDF : 32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

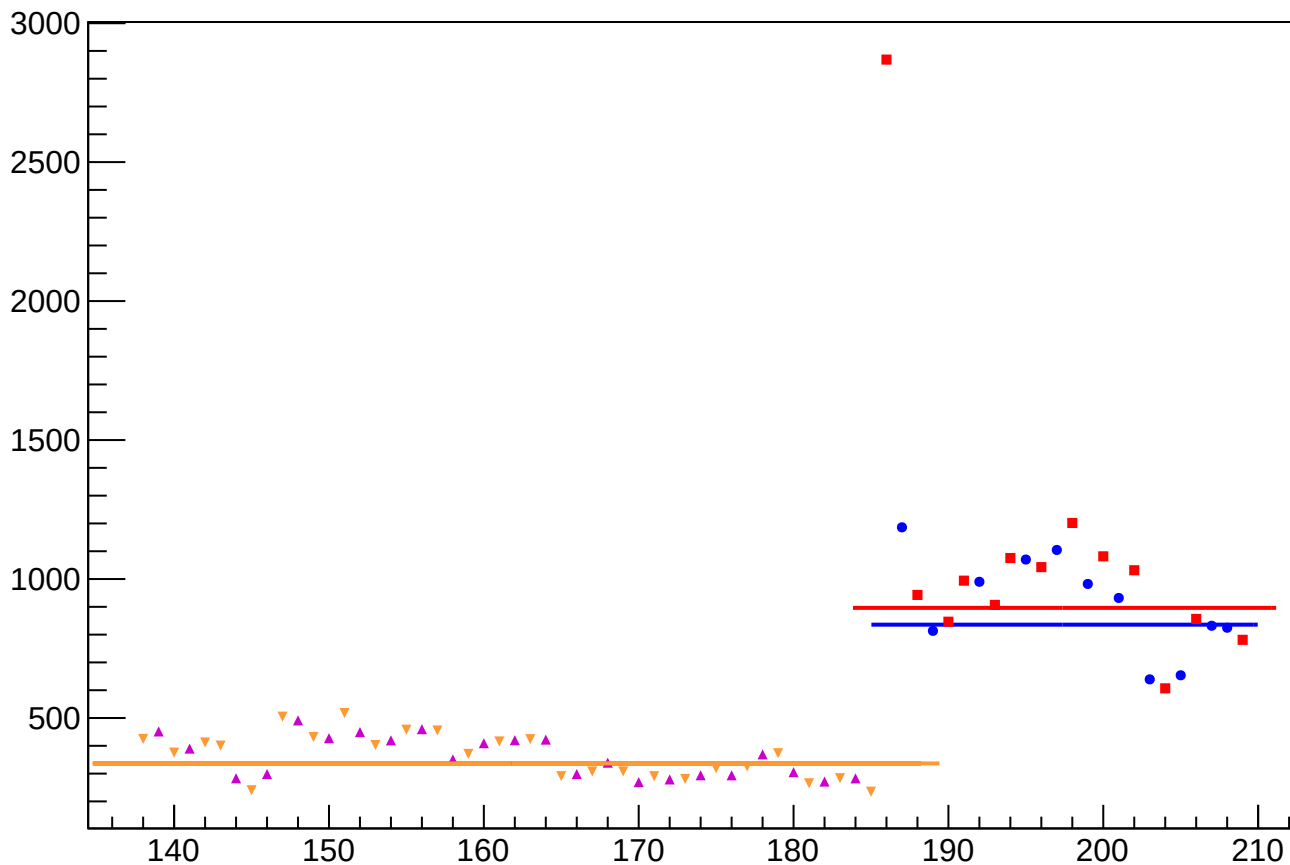
Right: 28.197+/-219.552 χ^2/NDF : 31.2/23

In: -106.348+/-79.522 χ^2/NDF : 48.4/33

Out: -55.695+/-77.903 χ^2/NDF : 45.7/37

All: -80.501+/-55.649 χ^2/NDF : 94.2/71

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 835.850 +/- 0.218 χ^2/NDF : 560747.2/10

Left Out: 336.557 +/- 0.057 χ^2/NDF : 1665919.4/24

Right Out: 896.311 +/- 0.222 χ^2/NDF : 972760.5/12

Left In: 336.439 +/- 0.058 χ^2/NDF : 1269066.3/22

Left: 336.500 +/- 0.041 χ^2/NDF : 2934987.9/47

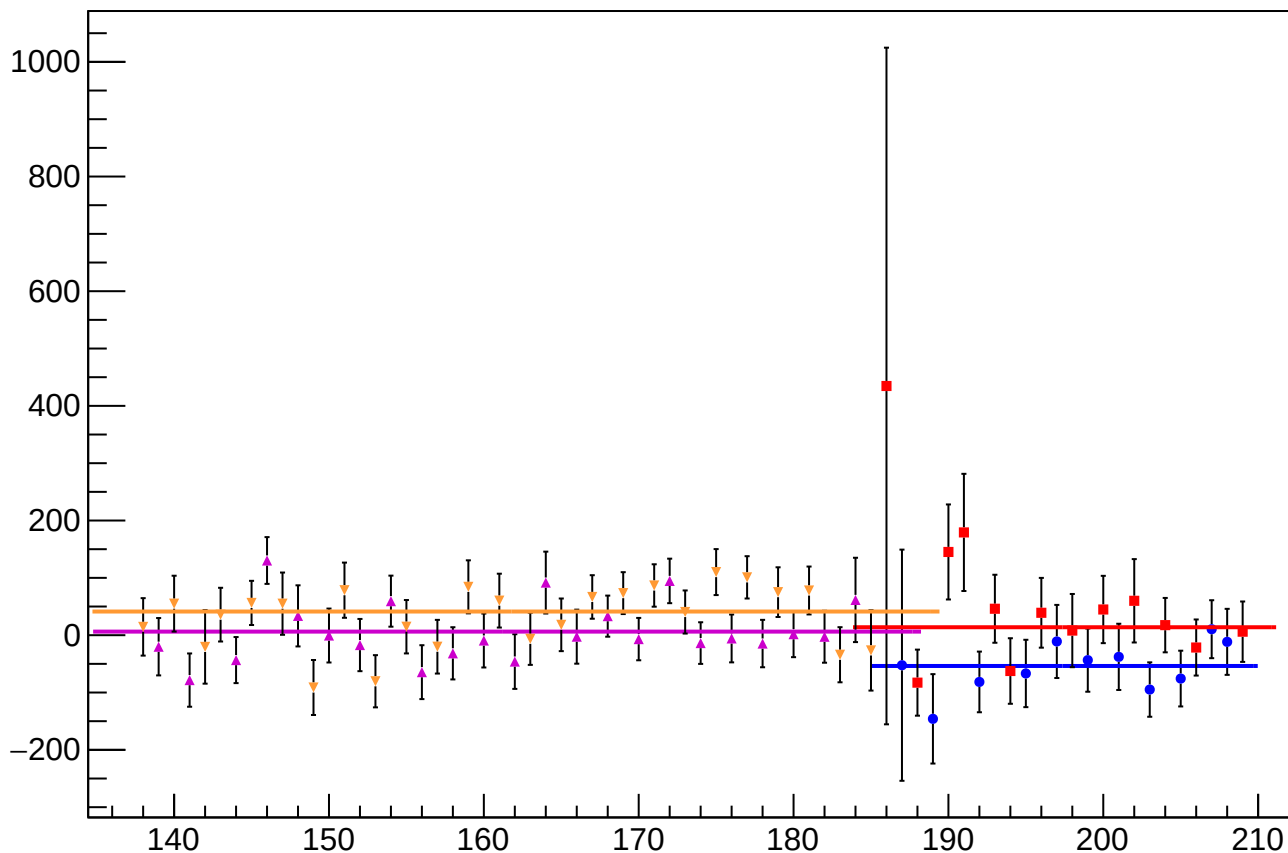
Right: 865.523 +/- 0.155 χ^2/NDF : 1571411.6/23

In: 369.801 +/- 0.056 χ^2/NDF : 6747305.6/33

Out: 371.146 +/- 0.055 χ^2/NDF : 8624717.5/37

All: 370.487 +/- 0.039 χ^2/NDF : 15372314.7/73

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -53.690 ± 17.484 χ^2/NDF : 5.4/10

Left Out: 41.283 ± 8.889 χ^2/NDF : 34.4/24

Right Out: 13.867 ± 17.270 χ^2/NDF : 11.9/12

Left In: 6.254 ± 9.175 χ^2/NDF : 30.3/22

Left: 24.322 ± 6.384 χ^2/NDF : 72.2/47

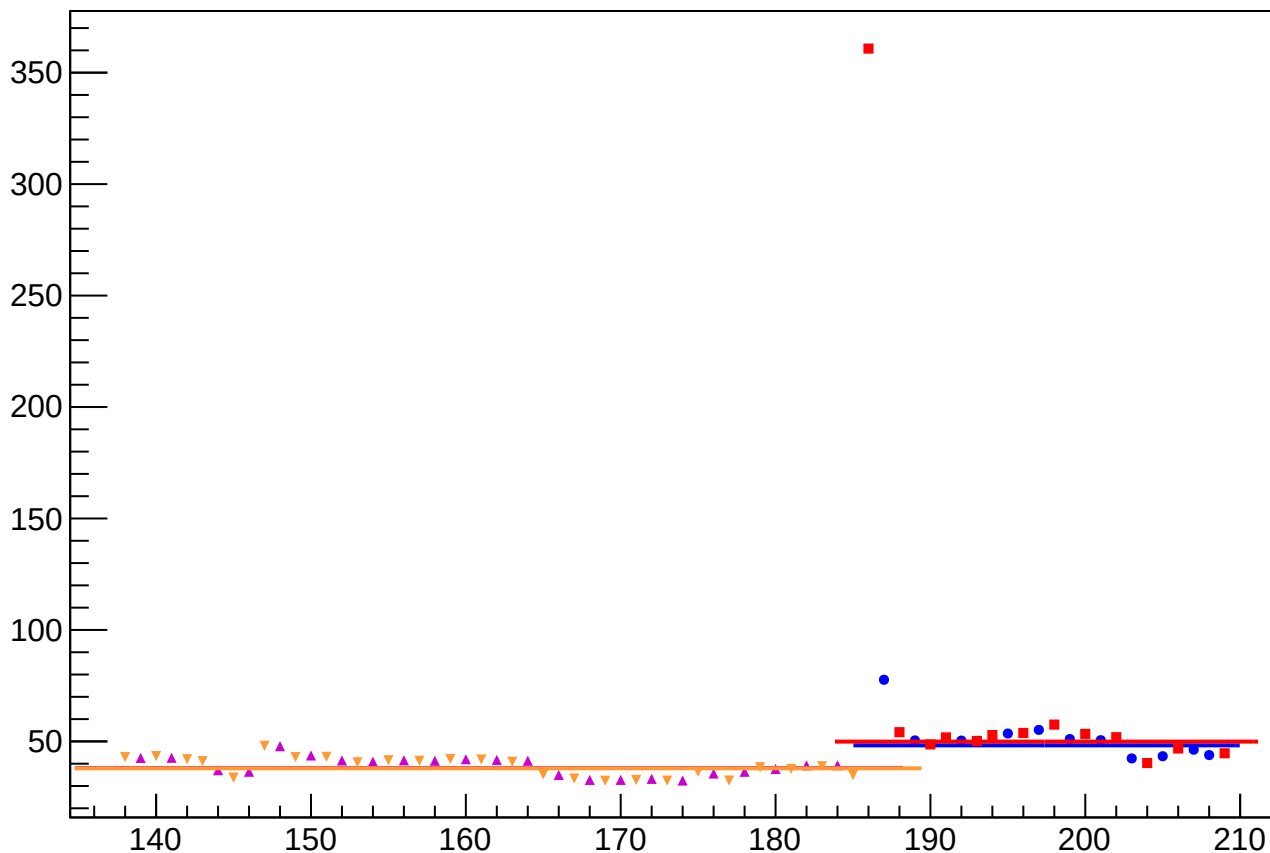
Right: -19.496 ± 12.287 χ^2/NDF : 24.9/23

In: -6.689 ± 8.124 χ^2/NDF : 44.9/33

Out: 35.541 ± 7.904 χ^2/NDF : 48.3/37

All: 15.006 ± 5.665 χ^2/NDF : 107.1/71

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 48.224 $\pm$ 0.012 χ^2 /NDF: 160884.9/10

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 49.909 $\pm$ 0.012 χ^2 /NDF: 727264.0/12

Left In: 38.087 $\pm$ 0.006 χ^2 /NDF: 396334.5/22

Left: 38.004 $\pm$ 0.005 χ^2 /NDF: 883742.3/47

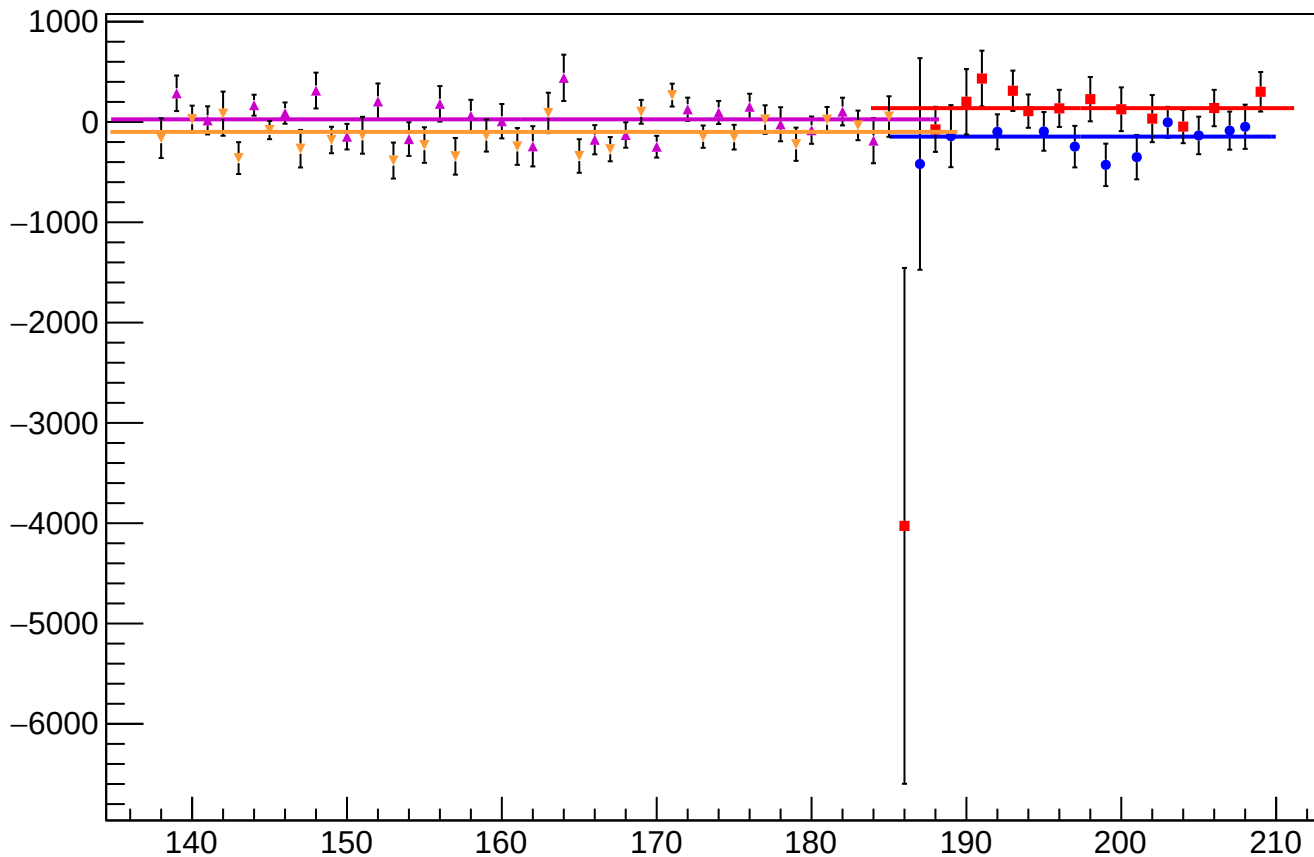
Right: 49.077 $\pm$ 0.009 χ^2 /NDF: 897543.4/23

In: 40.276 $\pm$ 0.006 χ^2 /NDF: 1084394.8/33

Out: 40.435 $\pm$ 0.006 χ^2 /NDF: 1975646.4/37

All: 40.358 $\pm$ 0.004 χ^2 /NDF: 3060434.9/71

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -145.955 ± 62.473 χ^2/NDF : 4.2/10

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 137.858 ± 59.264 χ^2/NDF : 7.7/12

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

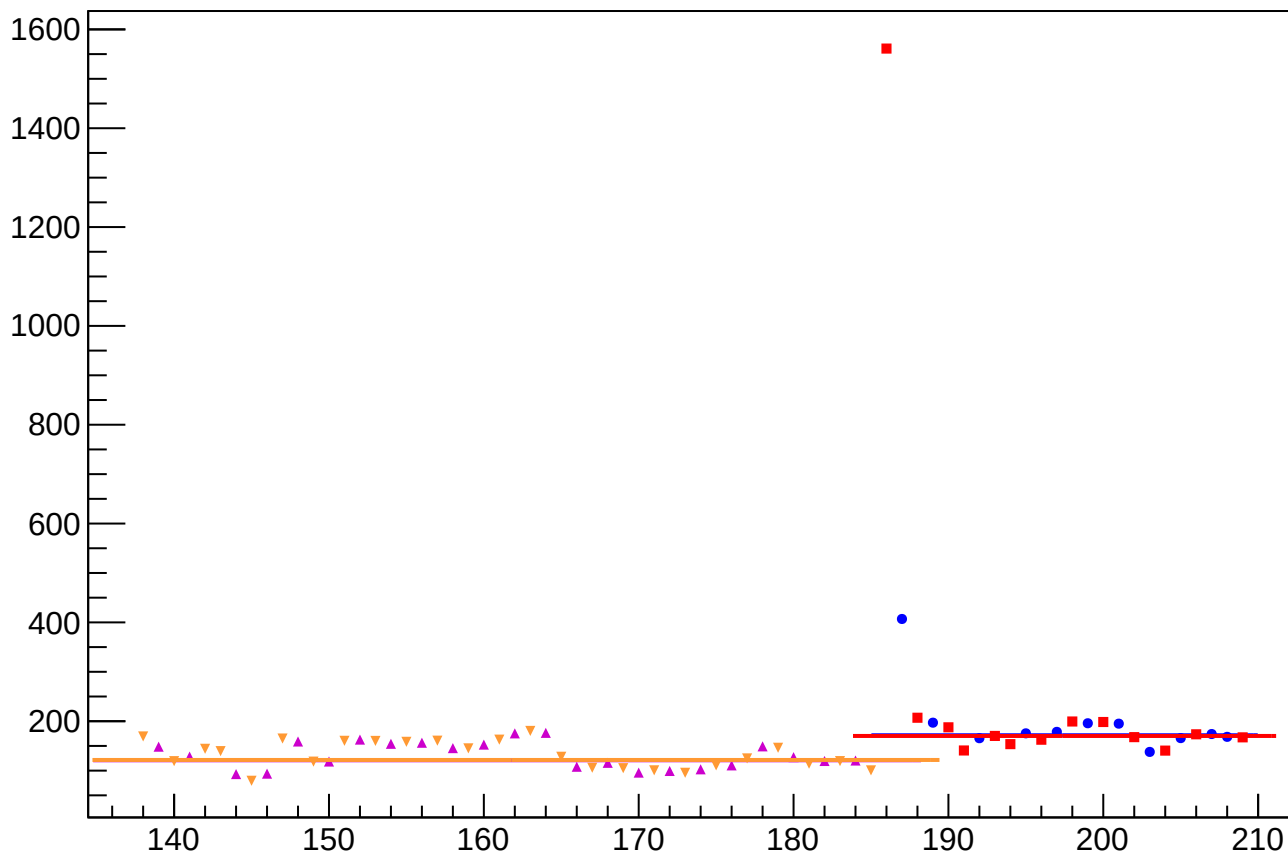
Right: 3.429 ± 42.996 χ^2/NDF : 22.8/23

In: -5.475 ± 26.805 χ^2/NDF : 41.1/33

Out: -52.790 ± 26.117 χ^2/NDF : 53.3/37

All: -29.747 ± 18.706 χ^2/NDF : 96.0/71

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 171.553 $\pm$ 0.044 χ^2 /NDF: 265338.4/10

Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24

Right Out: 170.180 $\pm$ 0.042 χ^2 /NDF: 824657.5/12

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

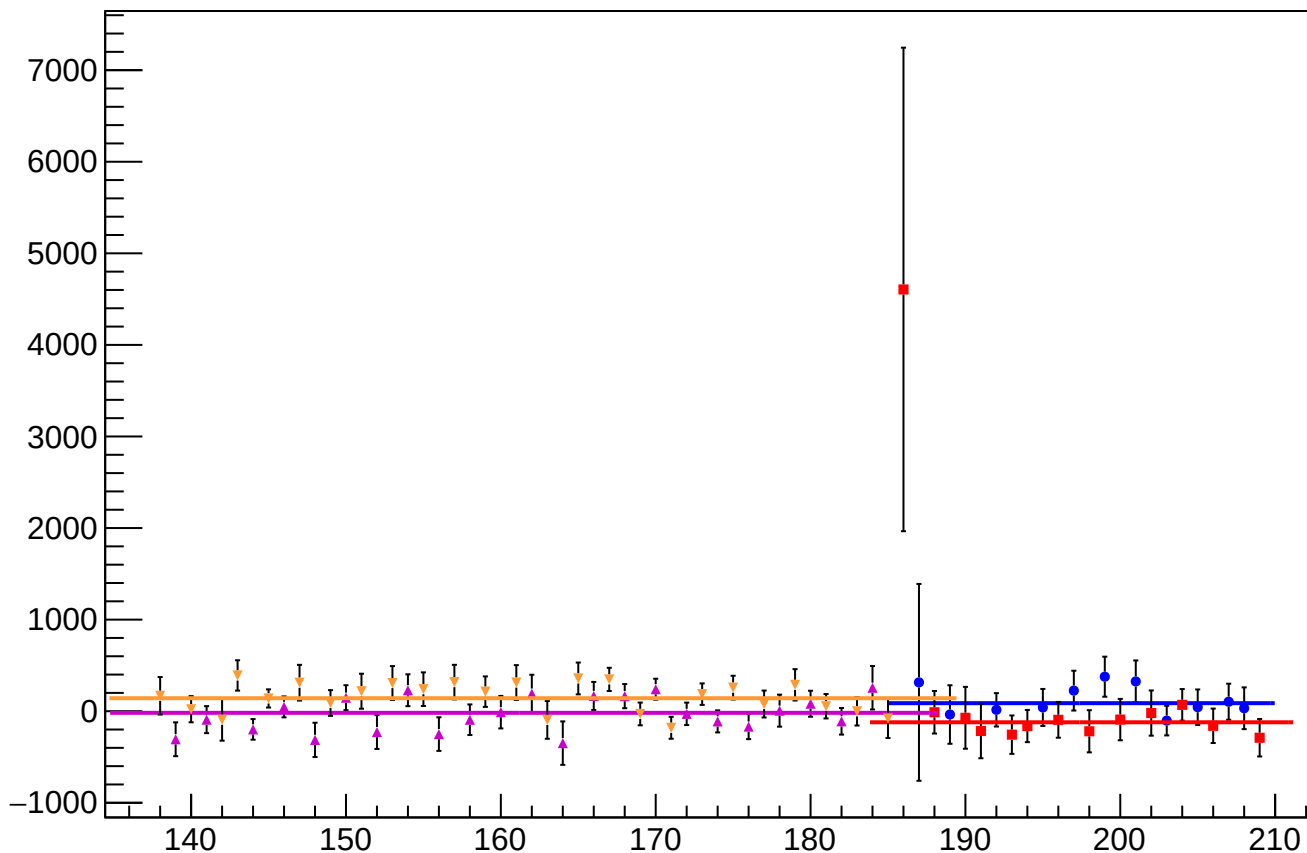
Right: 170.831 $\pm$ 0.030 χ^2 /NDF: 1090504.7/23

In: 130.247 $\pm$ 0.019 χ^2 /NDF:2719809.8/33

Out: 131.029 $\pm$ 0.018 χ^2 /NDF:3619334.5/37

All: 130.648 $\pm$ 0.013 χ^2 /NDF: 6340016.3/71

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 87.725+/-65.025 χ^2/NDF : 5.1/10

Left Out: 142.014+/-30.574 χ^2/NDF : 26.9/24

Right Out: -120.896+/-61.925 χ^2/NDF : 6.4/12

Left In: -17.679+/-31.209 χ^2/NDF : 30.1/22

Left: 63.807+/-21.840 χ^2/NDF : 70.4/47

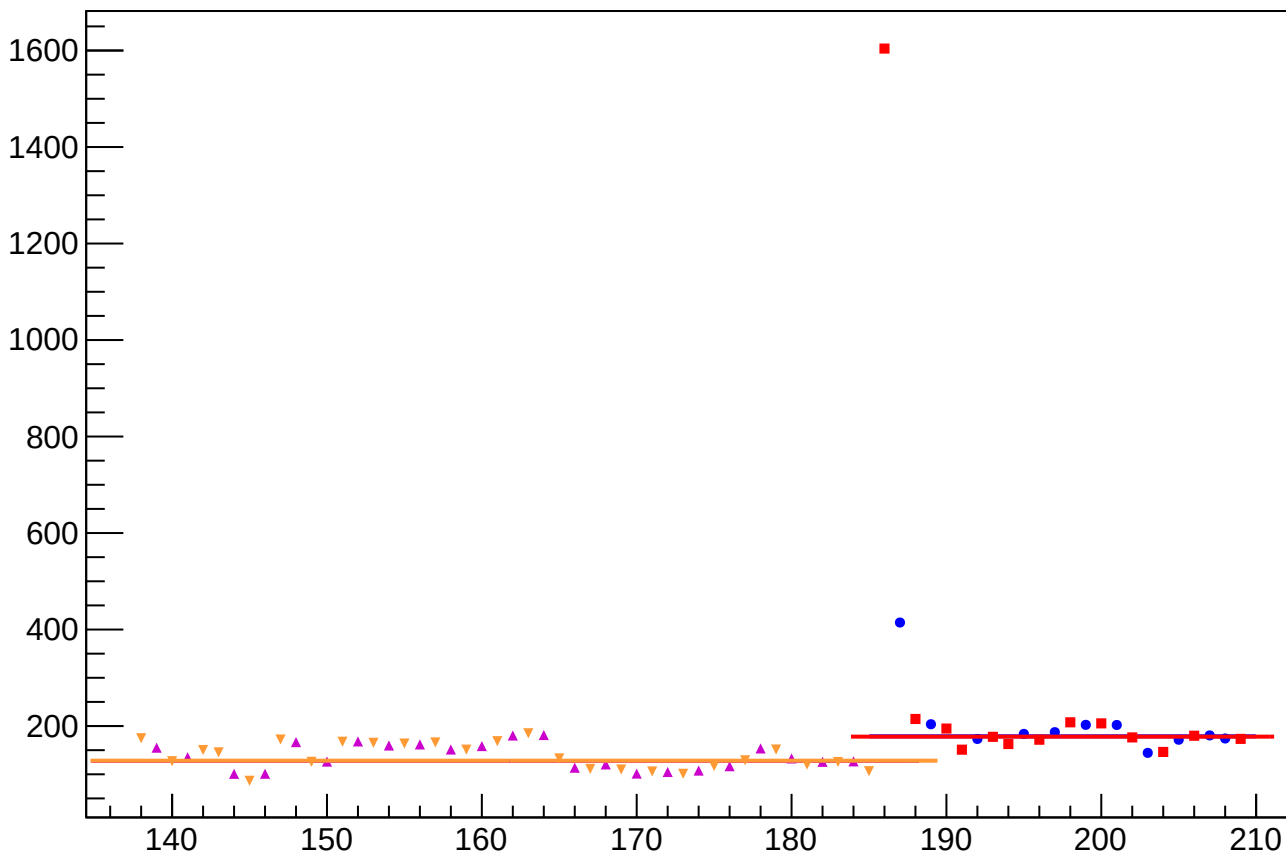
Right: -21.676+/-44.844 χ^2/NDF : 16.9/23

In: 2.055+/-28.136 χ^2/NDF : 37.4/33

Out: 90.486+/-27.415 χ^2/NDF : 47.7/37

All: 47.418+/-19.635 χ^2/NDF : 90.2/71

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 178.687 $\pm$ 0.046 χ^2 /NDF: 253296.2/10

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF: 1532922.0/24

Right Out: 178.039 $\pm$ 0.044 χ^2 /NDF: 803801.7/12

Left In: 127.544 $\pm$ 0.022 χ^2 /NDF: 1235705.3/22

Left: 127.866 $\pm$ 0.015 χ^2 /NDF: 2769045.1/47

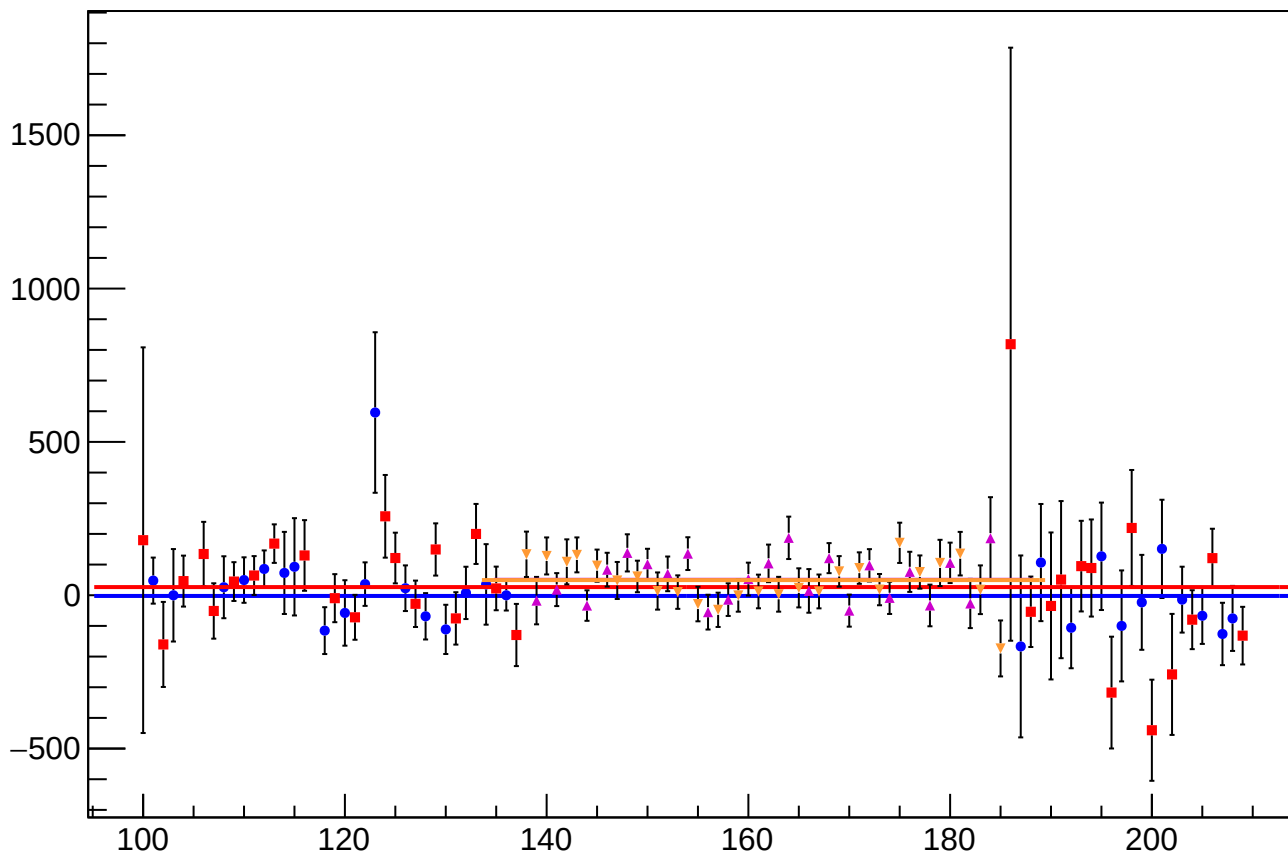
Right: 178.347 $\pm$ 0.032 χ^2 /NDF: 1057201.9/23

In: 137.119 $\pm$ 0.020 χ^2 /NDF: 2494581.2/33

Out: 137.948 $\pm$ 0.019 χ^2 /NDF: 3379356.7/37

All: 137.544 $\pm$ 0.014 χ^2 /NDF: 5874828.8/71

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.311 ± 18.003 $\chi^2/\text{NDF}: 20.1/27$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 26.595 ± 17.442 $\chi^2/\text{NDF}: 47.2/31$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

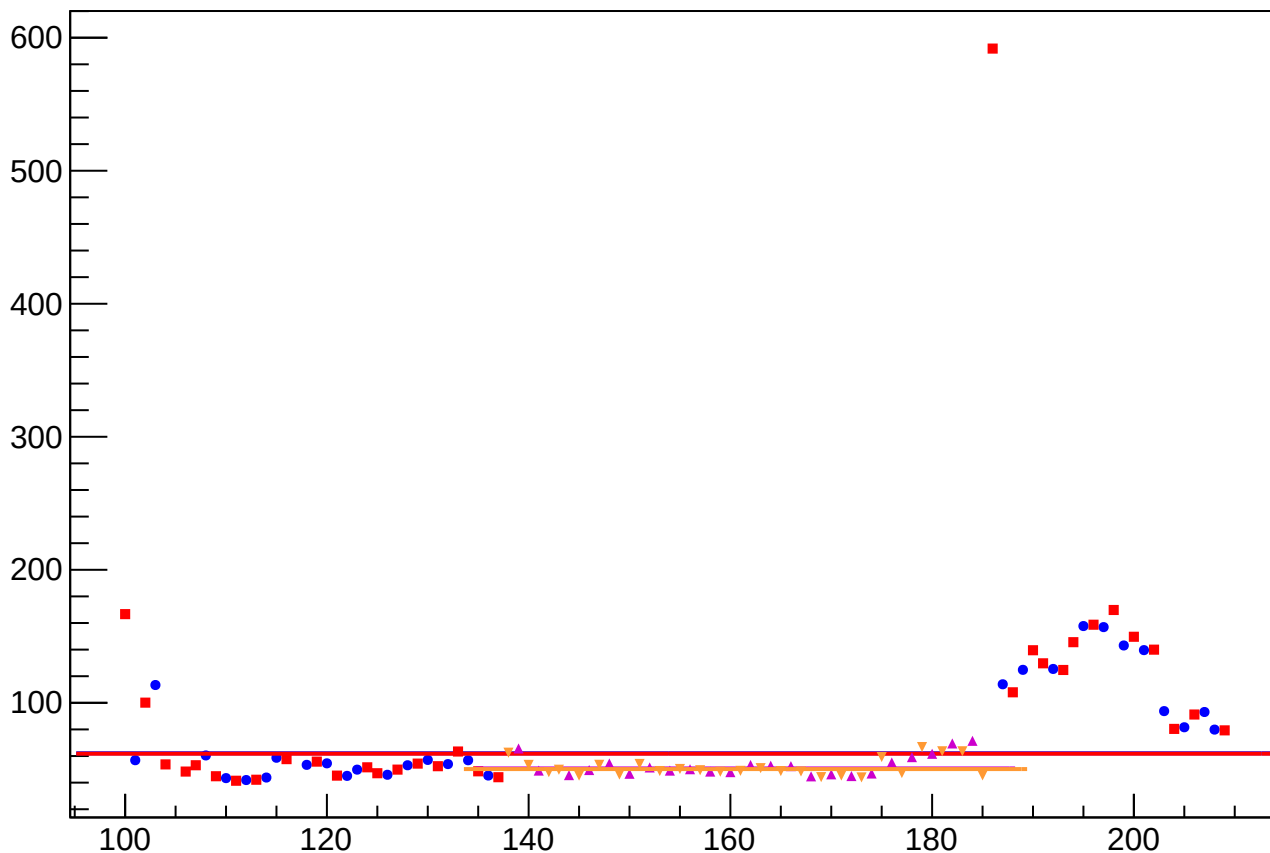
Right: 12.600 ± 12.527 $\chi^2/\text{NDF}: 68.7/59$

In: 33.665 ± 10.130 $\chi^2/\text{NDF}: 58.1/50$

Out: 42.236 ± 9.777 $\chi^2/\text{NDF}: 76.5/56$

All: 38.102 ± 7.035 $\chi^2/\text{NDF}: 135.0/107$

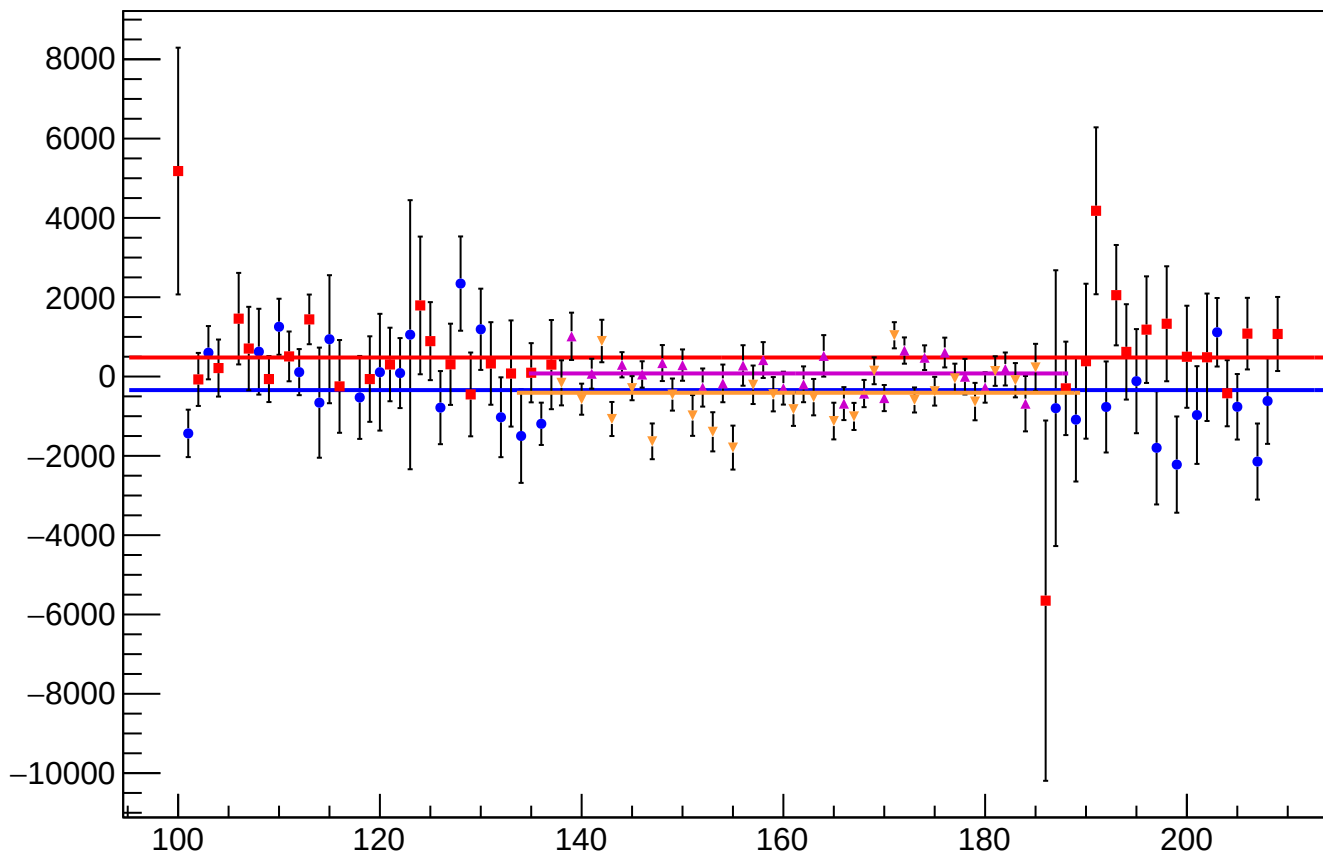
reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 62.058+/-0.013 χ^2/NDF : 4570492.9/27
 Left Out: 50.189+/-0.008 χ^2/NDF : 467679.2/24
 Right Out: 61.746+/-0.012 χ^2/NDF : 5867583.8/31
 Left In: 50.683+/-0.009 χ^2/NDF : 469292.3/22

Left: 50.427+/-0.006 χ^2/NDF : 938655.0/47
 Right: 61.897+/-0.009 χ^2/NDF : 10438384.9/59
 In: 54.284+/-0.007 χ^2/NDF : 5585395.5/50
 Out: 53.821+/-0.007 χ^2/NDF : 6937470.6/56
 All: 54.044+/-0.005 χ^2/NDF : 12525035.1/107

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -341.944+/-179.780 χ^2/NDF : 35.4/27

Left Out: -409.164+/-82.348 χ^2/NDF : 61.7/24

Right Out: 480.186+/-175.613 χ^2/NDF : 19.3/31

Left In: 77.872+/-84.072 χ^2/NDF : 24.8/22

Left: -170.691+/-58.829 χ^2/NDF : 103.6/47

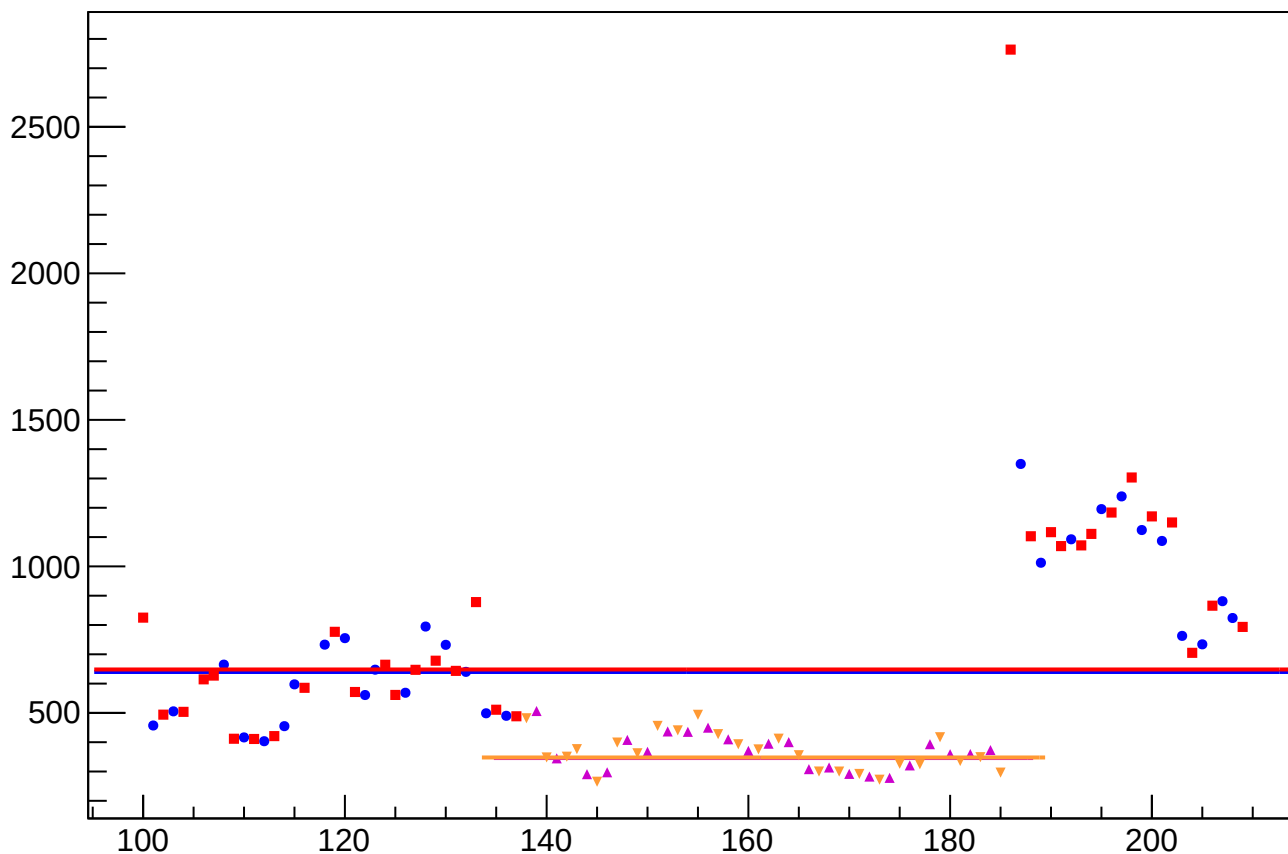
Right: 78.758+/-125.625 χ^2/NDF : 65.4/59

In: 2.538+/-76.156 χ^2/NDF : 64.7/50

Out: -248.858+/-74.558 χ^2/NDF : 102.0/56

All: -125.826+/-53.277 χ^2/NDF : 172.2/107

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 639.662+/-0.127 χ^2/NDF : 3179805.4/27

Left Out: 347.875+/-0.058 χ^2/NDF :1044096.7/24

Right Out: 648.197+/-0.124 χ^2/NDF : 4180766.2/31

Left In: 345.954+/-0.059 χ^2/NDF :900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

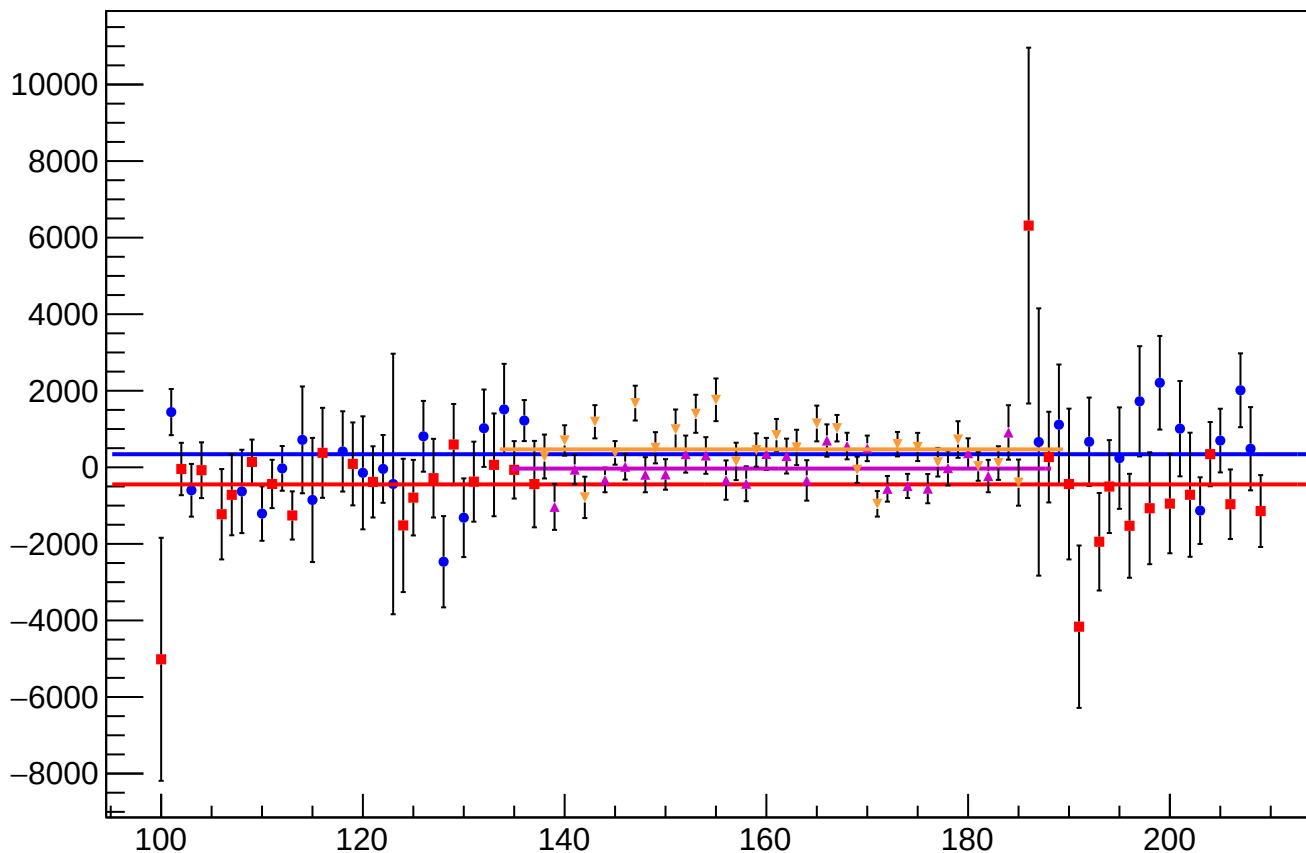
Right: 644.030+/-0.089 χ^2/NDF : 7362878.1/59

In: 398.659+/-0.054 χ^2/NDF :8460792.8/50

Out: 402.008+/-0.053 χ^2/NDF :10019660.8/56

All: 400.369+/-0.038 χ^2/NDF : 18482429.3/100

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 342.158+/-181.058 χ^2/NDF : 34.6/27

Left Out: 468.863+/-83.295 χ^2/NDF : 57.5/24

Right Out: -446.281+/-176.950 χ^2/NDF : 18.2/31

Left In: -32.801+/-85.064 χ^2/NDF : 25.7/22

Left: 223.299+/-59.514 χ^2/NDF : 100.9/47

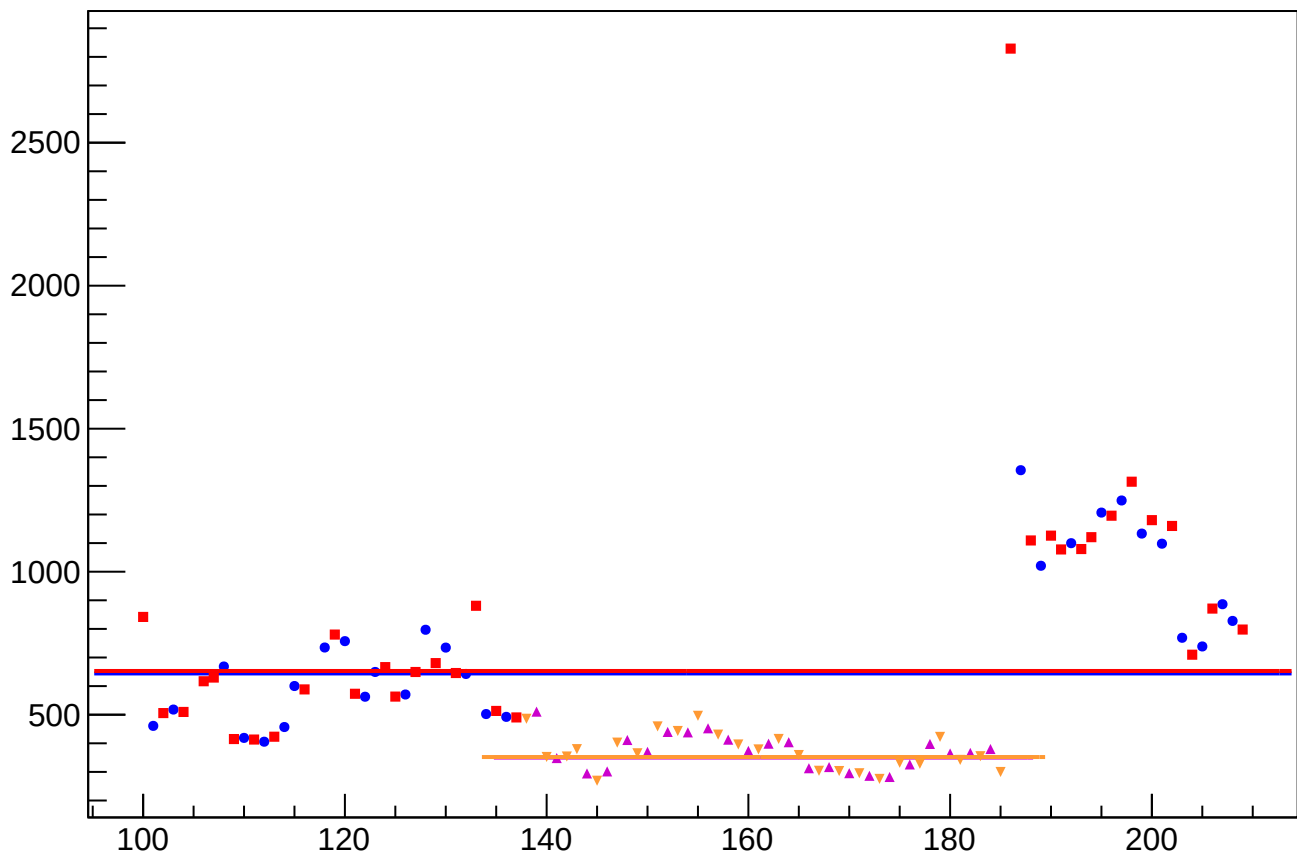
Right: -61.109+/-126.550 χ^2/NDF : 62.5/59

In: 34.997+/-76.990 χ^2/NDF : 63.8/50

Out: 302.863+/-75.363 χ^2/NDF : 97.6/56

All: 171.790+/-53.856 χ^2/NDF : 167.5/107

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 644.282+/-0.128 χ^2/NDF : 3174878.5/27

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 652.893+/-0.125 χ^2/NDF : 4181224.0/31

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

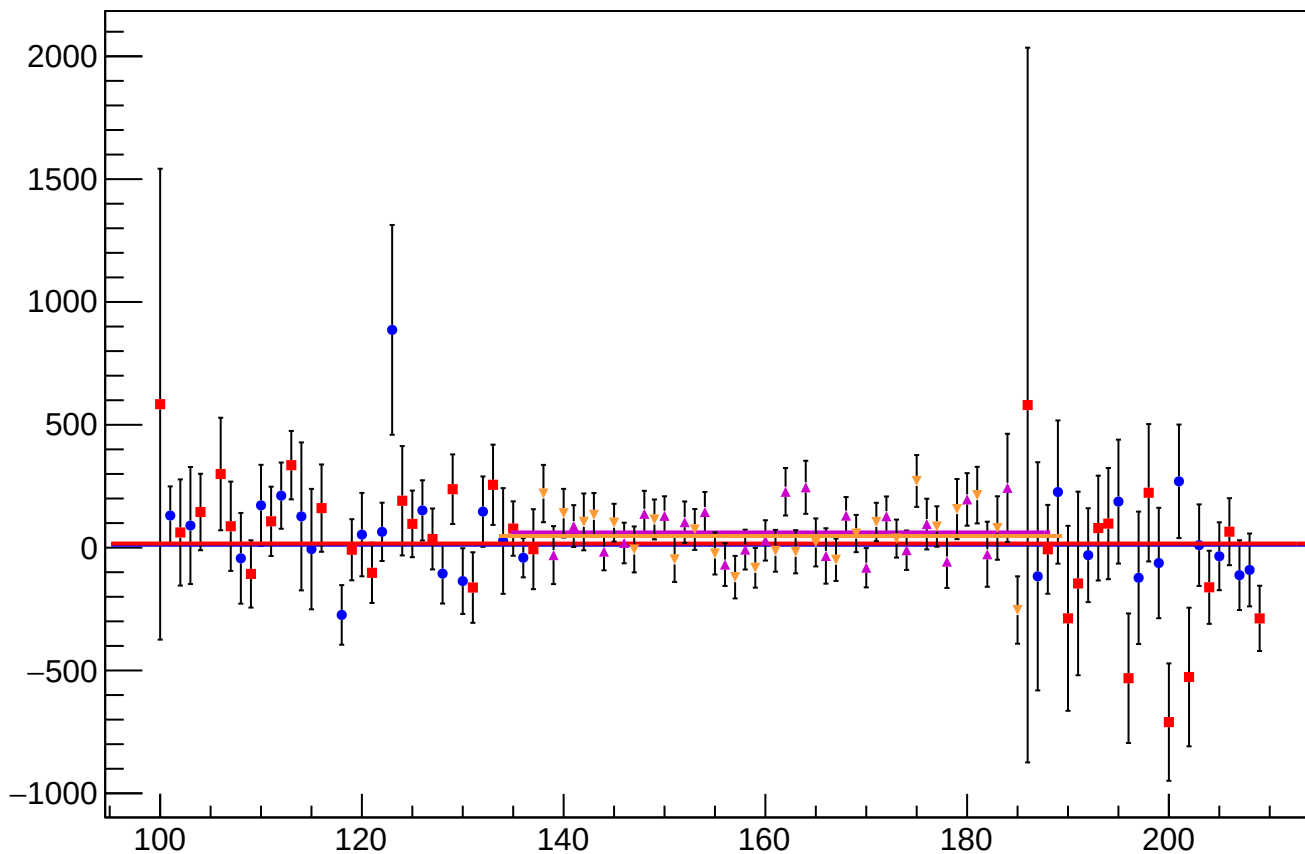
Right: 648.686+/-0.089 χ^2/NDF : 7358416.4/59

In: 403.342+/-0.054 χ^2/NDF : 8376688.5/50

Out: 406.592+/-0.053 χ^2/NDF : 9931970.8/56

All: 405.001+/-0.038 χ^2/NDF : 18310479.3/106

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 11.874 ± 29.760 $\chi^2/\text{NDF}: 23.4/27$

Left Out: 47.426 ± 18.253 $\chi^2/\text{NDF}: 29.4/24$

Right Out: 16.704 ± 29.809 $\chi^2/\text{NDF}: 44.2/31$

Left In: 61.830 ± 18.958 $\chi^2/\text{NDF}: 24.0/22$

Left: 54.355 ± 13.149 $\chi^2/\text{NDF}: 53.7/47$

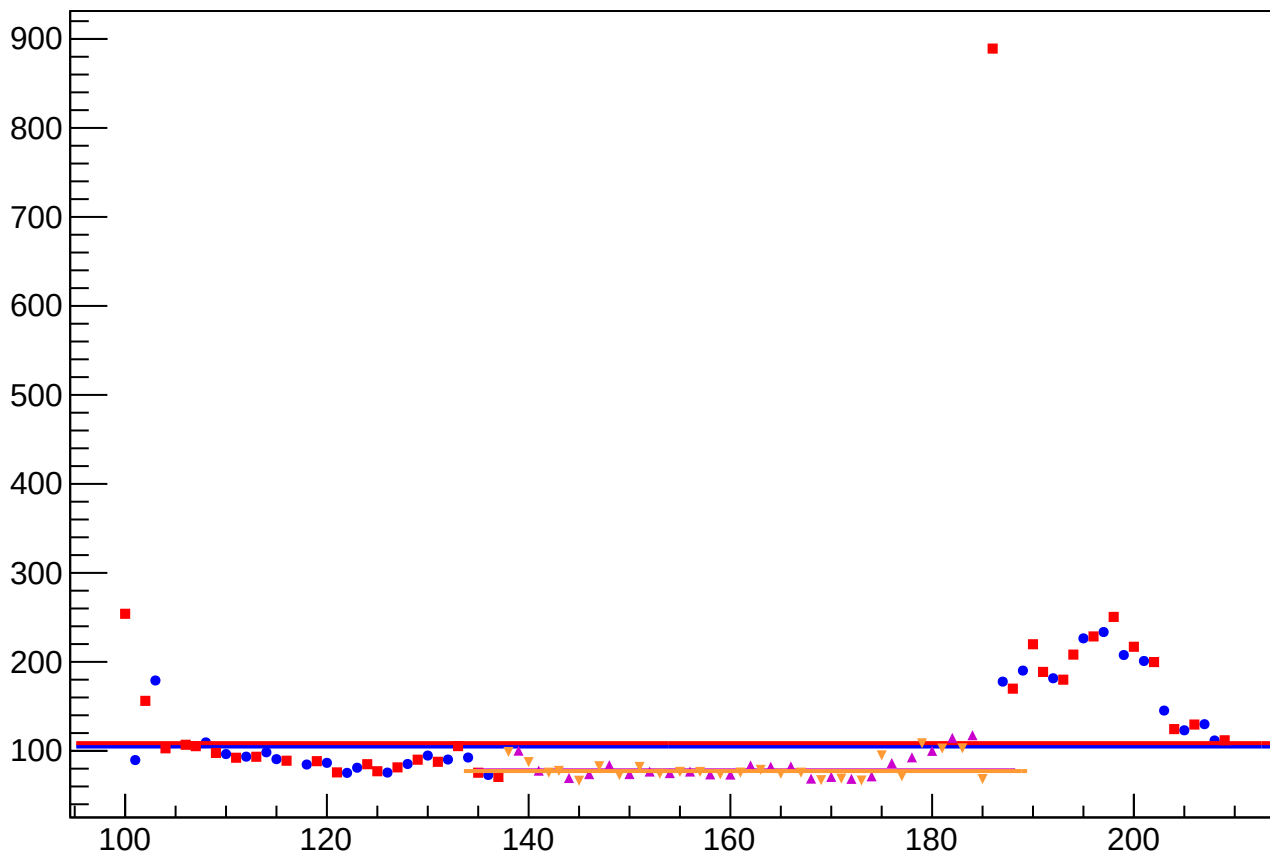
Right: 14.285 ± 21.061 $\chi^2/\text{NDF}: 67.6/59$

In: 47.410 ± 15.989 $\chi^2/\text{NDF}: 49.4/50$

Out: 39.048 ± 15.566 $\chi^2/\text{NDF}: 74.3/56$

All: 43.117 ± 11.154 $\chi^2/\text{NDF}: 123.8/107$

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 104.878 $\pm$ 0.021 χ^2 /NDF: 3438837.8/27

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF:635622.3/24

Right Out: 108.694 $\pm$ 0.021 χ^2 /NDF: 4325889.9/31

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

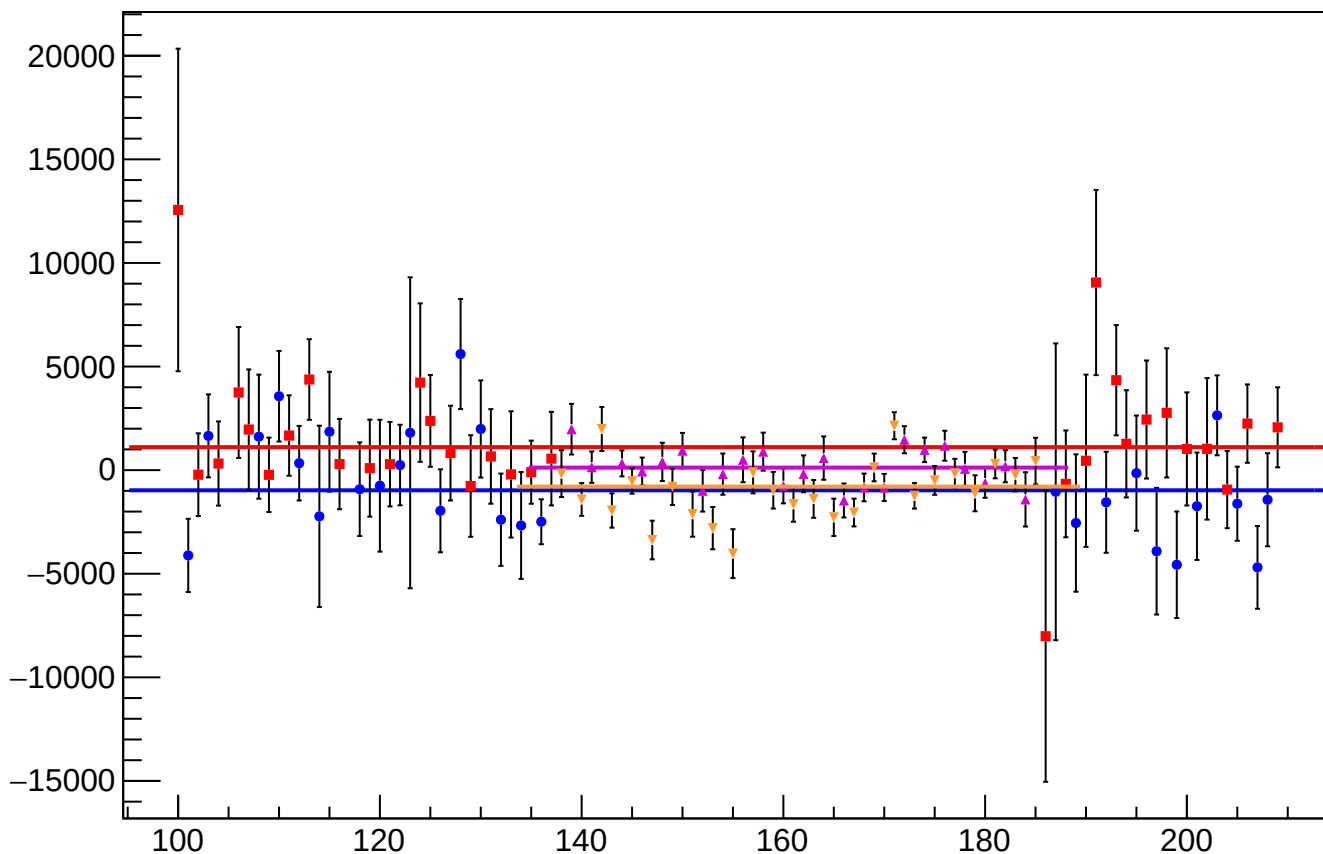
Right: 106.783 $\pm$ 0.015 χ^2 /NDF: 7781148.6/59

In: 85.857 $\pm$ 0.011 χ^2 /NDF:5169468.3/50

Out: 85.873 $\pm$ 0.011 χ^2 /NDF:6573288.9/56

All: 85.865 $\pm$ 0.008 χ^2 /NDF: 11742758.2/107

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -973.101 $\pm$ 423.723 χ^2 /NDF: 33.3/27

Left Out: -792.776 $\pm$ 162.659 χ^2 /NDF:66.6/24

Right Out: 1110.706 $\pm$ 422.171 χ^2 /NDF: 19.1/31

Left In: 122.198 $\pm$ 166.193 χ^2 /NDF:25.9/22

Left: -345.122 $\pm$ 116.247 χ^2 /NDF: 108.0/47

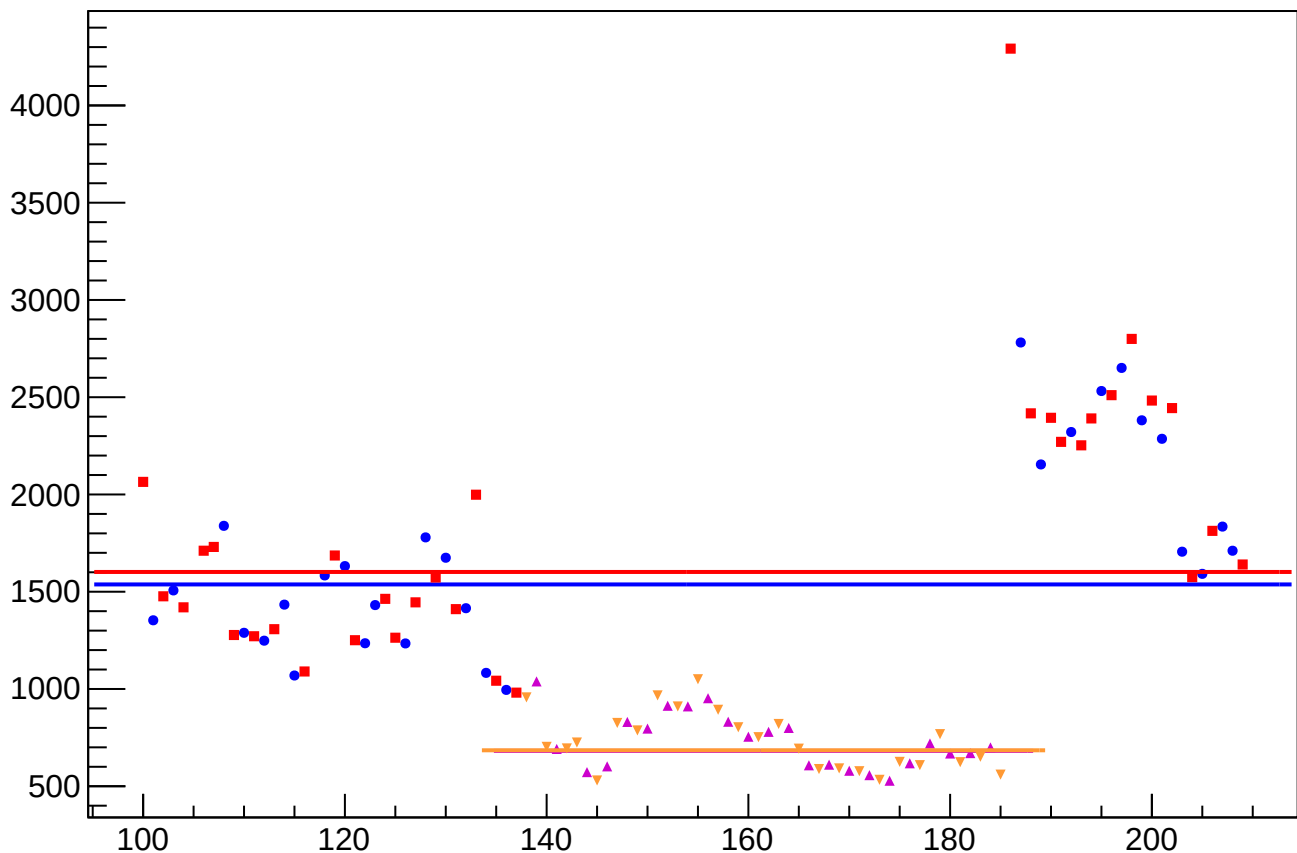
Right: 72.625 $\pm$ 299.067 χ^2 /NDF: 64.6/59

In: -23.836 $\pm$ 154.718 χ^2 /NDF:65.0/50

Out: -546.730 $\pm$ 151.783 χ^2 /NDF:103.5/56

All: -290.291 $\pm$ 108.349 χ^2 /NDF: 174.3/107

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1537.509+/-0.300 χ^2/NDF : 2175508.4/27

Left Out: 684.785+/-0.115 χ^2/NDF :1280146.2/24

Right Out: 1601.632+/-0.299 χ^2/NDF : 2677907.9/31

Left In: 681.712+/-0.118 χ^2/NDF :1119637.0/22

Left: 683.282+/-0.082 χ^2/NDF : 2400132.5/47

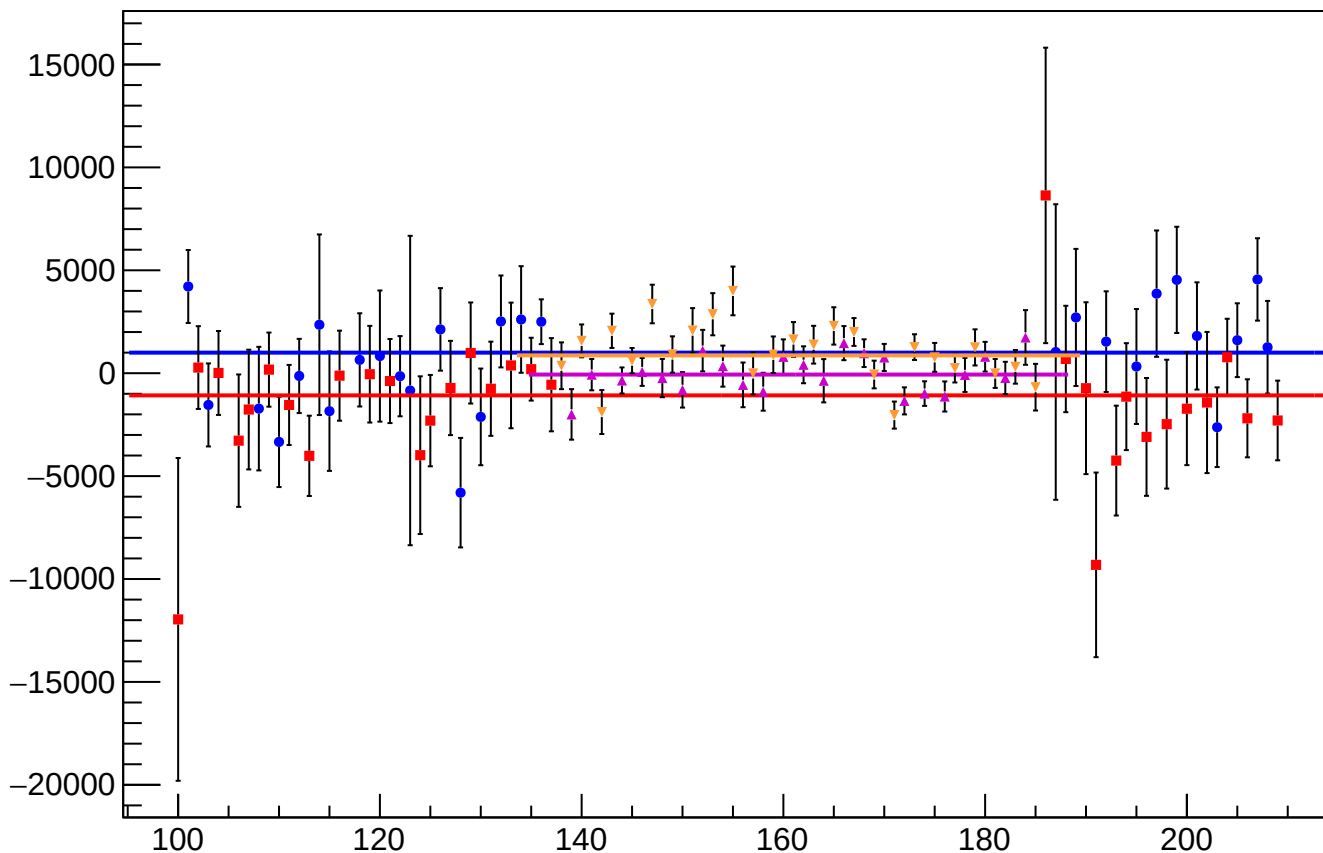
Right: 1569.688+/-0.211 χ^2/NDF : 4876402.1/59

In: 795.813+/-0.109 χ^2/NDF :10365847.4/50

Out: 803.297+/-0.107 χ^2/NDF :12171694.0/56

All: 799.627+/-0.077 χ^2/NDF : 22539926.1/10

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 999.468 ± 425.021 χ^2/NDF : 32.9/27

Left Out: 865.597 ± 163.885 χ^2/NDF : 62.8/24

Right Out: -1077.770 ± 423.616 χ^2/NDF : 18.7/31

Left In: -65.924 ± 167.485 χ^2/NDF : 26.4/22

Left: 409.953 ± 117.136 χ^2/NDF : 105.1/47

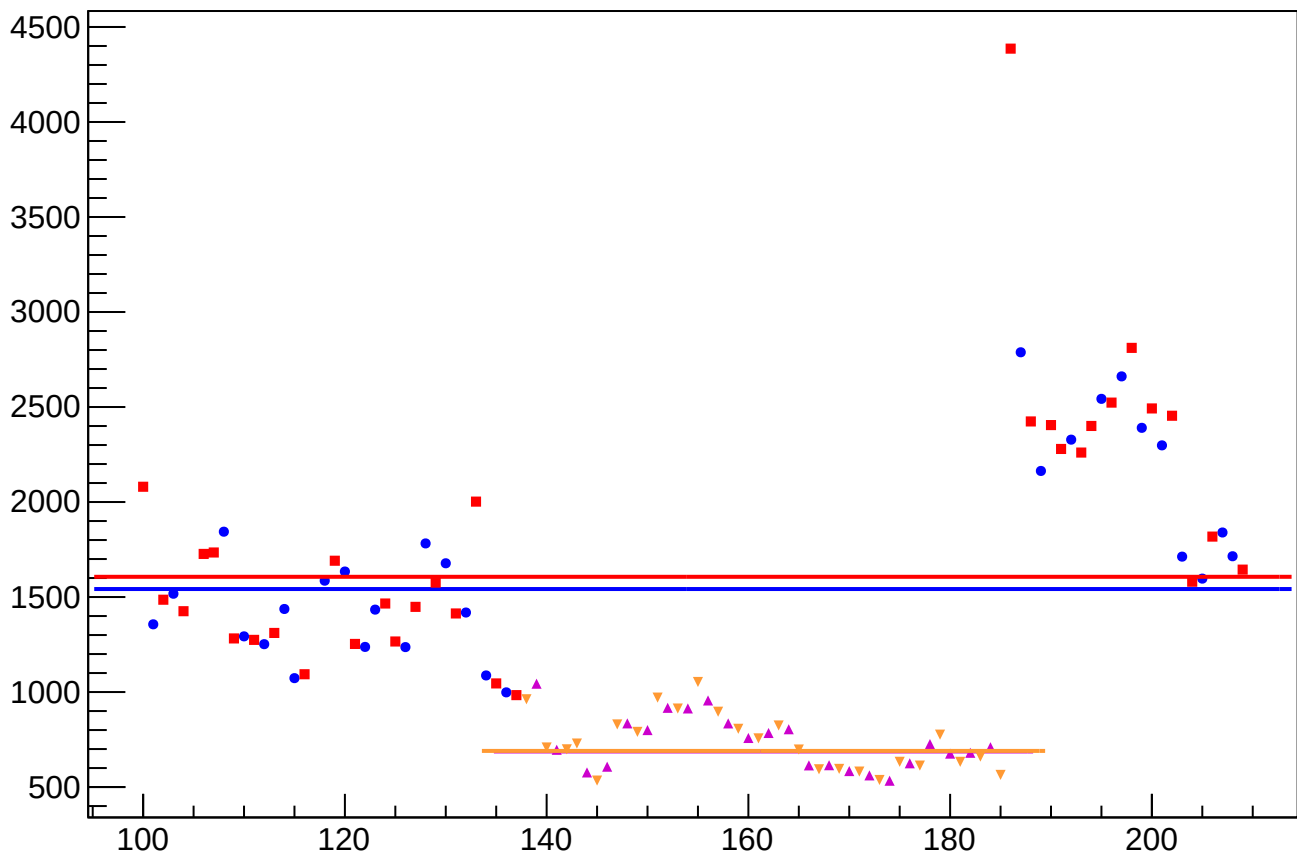
Right: -42.591 ± 300.037 χ^2/NDF : 63.5/59

In: 77.278 ± 155.822 χ^2/NDF : 64.7/50

Out: 612.598 ± 152.846 χ^2/NDF : 99.8/56

All: 350.100 ± 109.115 χ^2/NDF : 170.6/107

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1542.107 $\pm$ 0.301 χ^2/NDF : 2179590.9/27

Left Out: 690.166 $\pm$ 0.116 χ^2/NDF : 1258158.2/24

Right Out: 1606.495 $\pm$ 0.300 χ^2/NDF : 2690463.1/31

Left In: 687.216 $\pm$ 0.118 χ^2/NDF : 1099706.1/22

Left: 688.723 $\pm$ 0.083 χ^2/NDF : 2358181.3/47

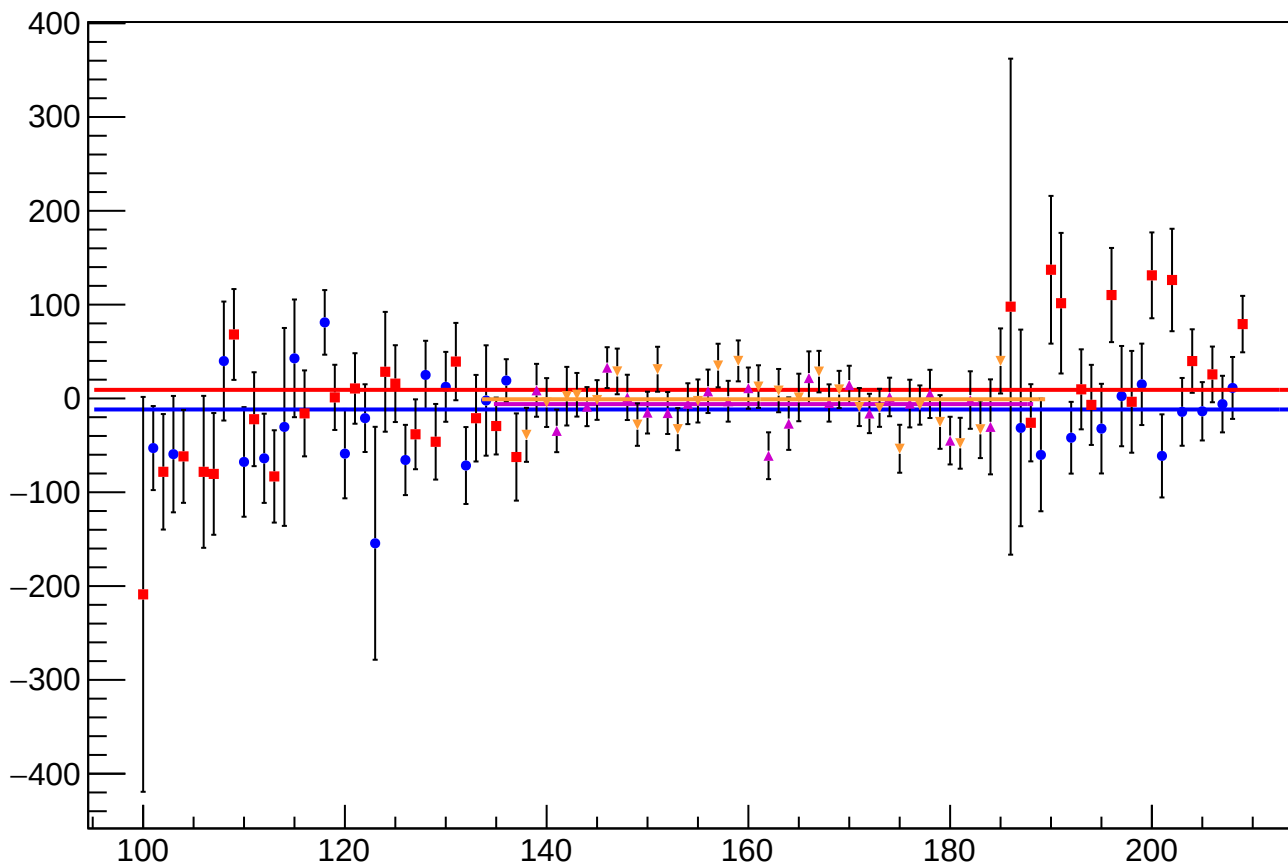
Right: 1574.408 $\pm$ 0.212 χ^2/NDF : 4893080.6/59

In: 802.124 $\pm$ 0.110 χ^2/NDF : 10283221.8/50

Out: 809.459 $\pm$ 0.108 χ^2/NDF : 12088456.0/56

All: 805.863 $\pm$ 0.077 χ^2/NDF : 22373936.3/10

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -11.761 ± 7.930 χ^2/NDF : 25.8/27

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 9.148 ± 7.949 χ^2/NDF : 50.1/31

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

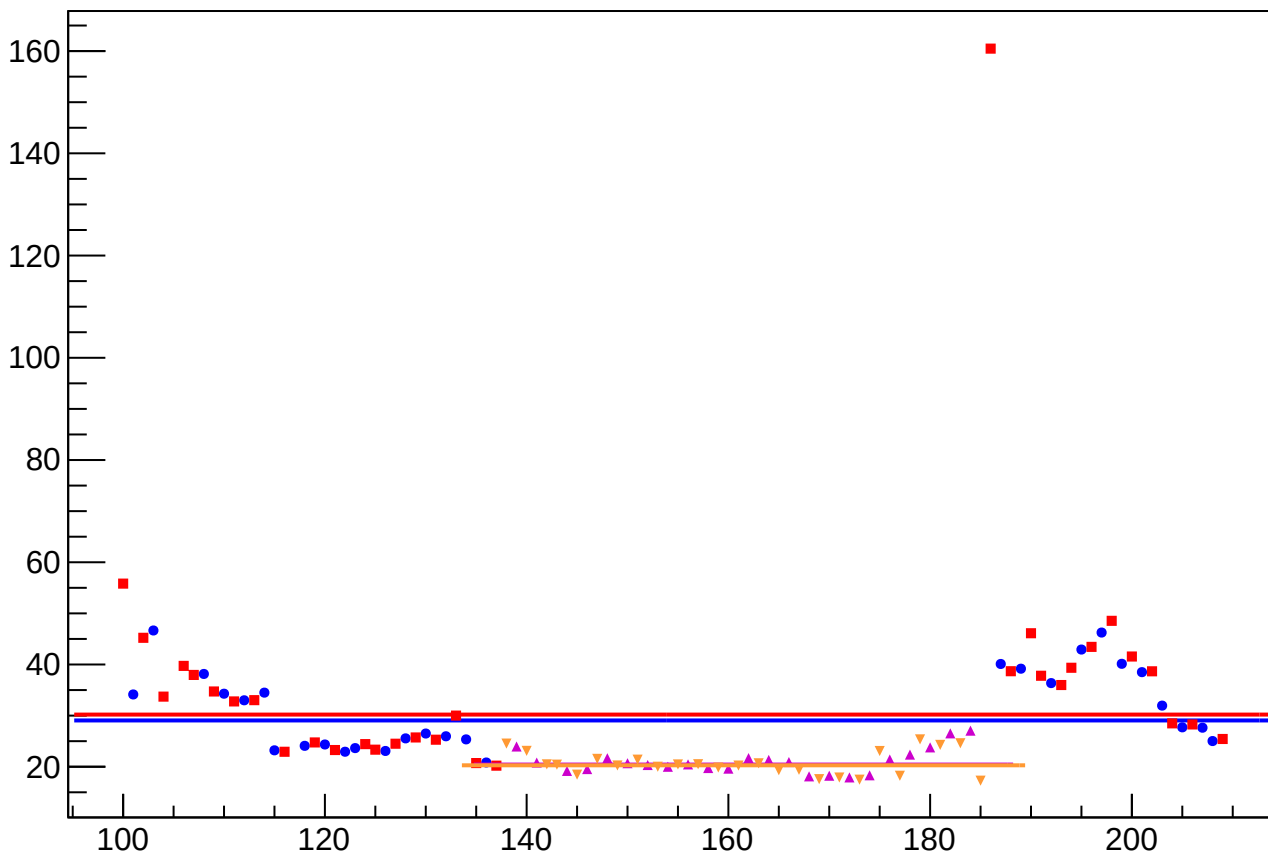
Right: -1.331 ± 5.614 χ^2/NDF : 79.4/59

In: -7.634 ± 4.184 χ^2/NDF : 43.1/50

Out: 1.781 ± 4.084 χ^2/NDF : 79.1/56

All: -2.813 ± 2.922 χ^2/NDF : 124.9/107

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 29.053+/-0.006 χ^2/NDF : 1562256.6/27

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 30.201+/-0.006 χ^2/NDF : 2277638.7/31

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

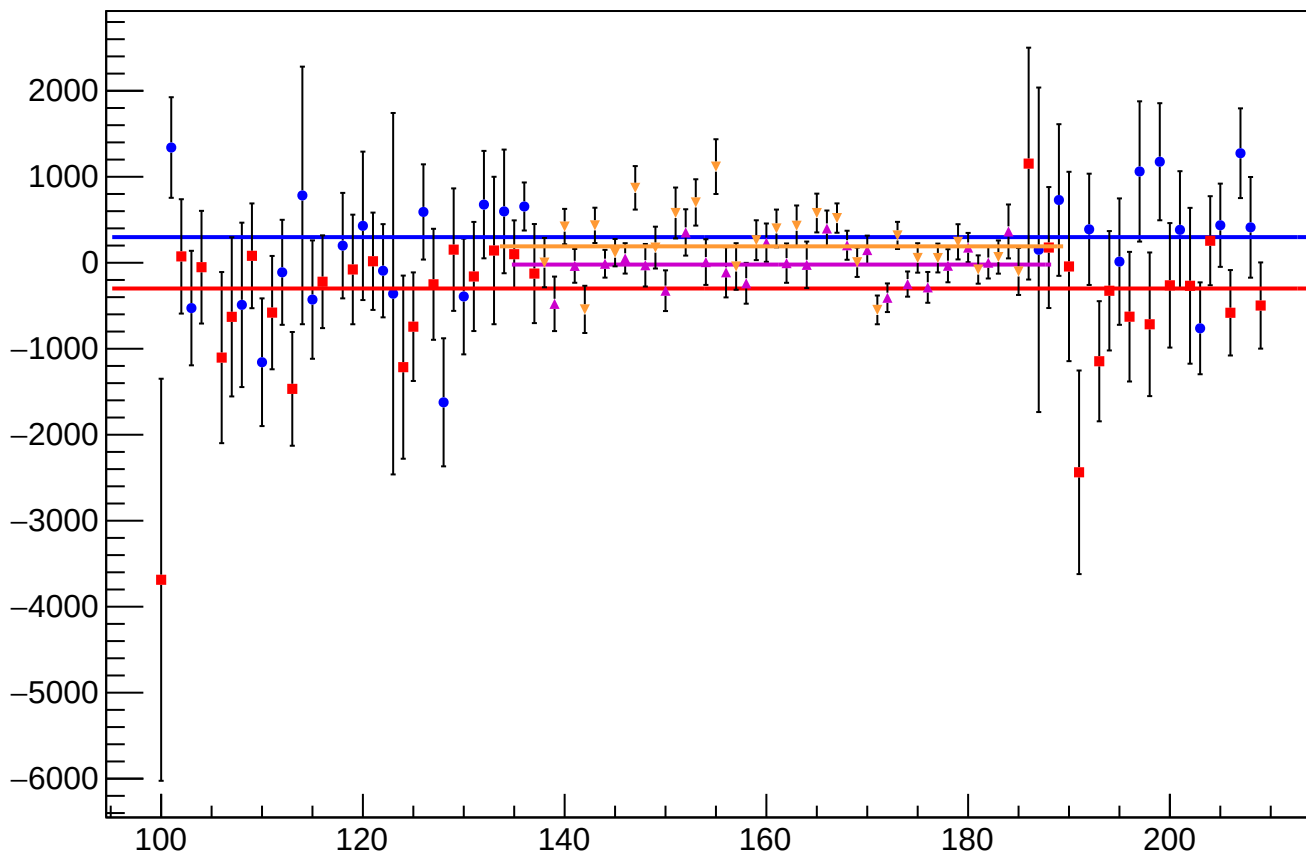
Right: 29.626+/-0.004 χ^2/NDF : 3860800.6/59

In: 22.826+/-0.003 χ^2/NDF : 3594817.1/50

Out: 22.898+/-0.003 χ^2/NDF : 4978233.5/56

All: 22.863+/-0.002 χ^2/NDF : 8573356.2/107

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 298.220 ± 118.254 $\chi^2/\text{NDF}: 32.2/27$

Left Out: 190.867 ± 41.314 $\chi^2/\text{NDF}: 67.9/24$

Right Out: -299.386 ± 118.980 $\chi^2/\text{NDF}: 19.0/31$

Left In: -20.998 ± 42.291 $\chi^2/\text{NDF}: 27.7/22$

Left: 87.410 ± 29.553 $\chi^2/\text{NDF}: 108.4/47$

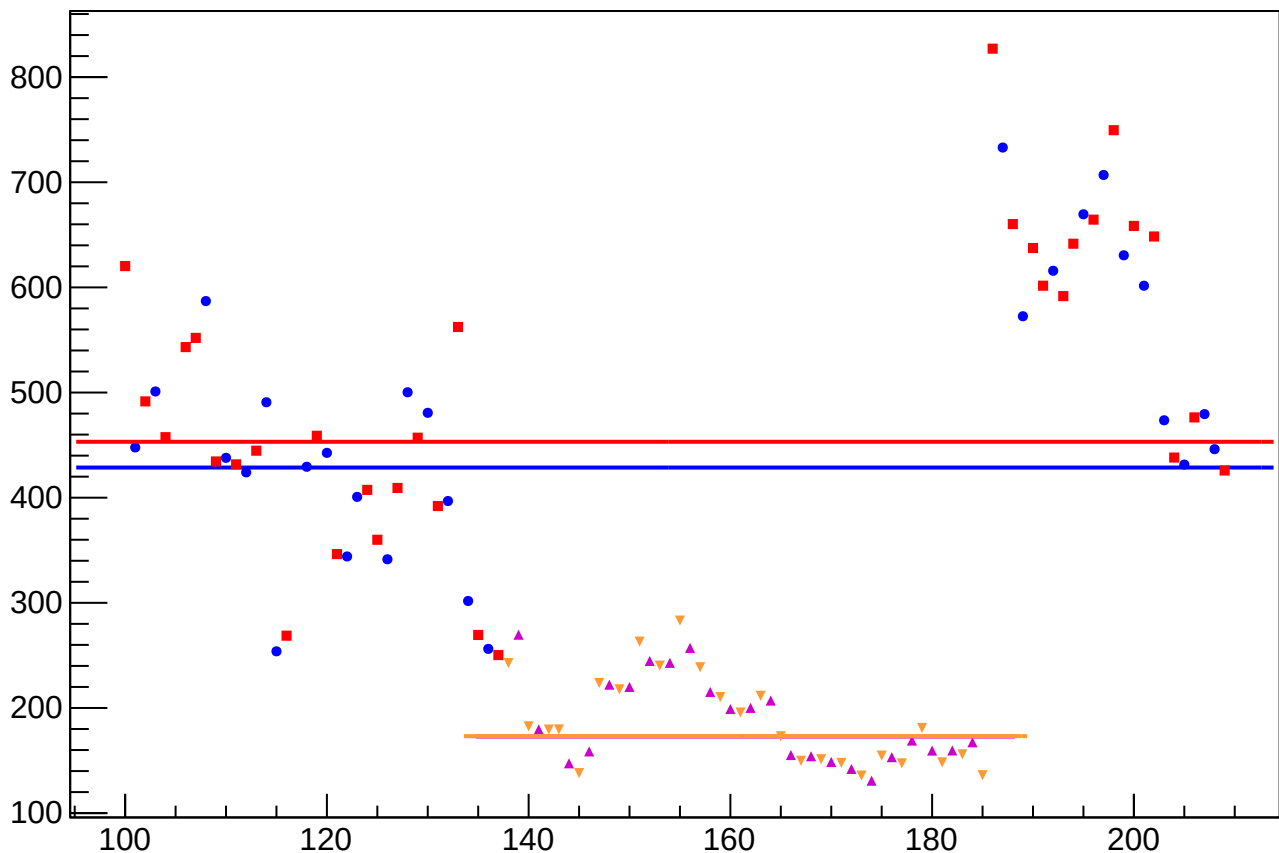
Right: 1.245 ± 83.874 $\chi^2/\text{NDF}: 64.0/59$

In: 15.199 ± 39.821 $\chi^2/\text{NDF}: 66.4/50$

Out: 138.117 ± 39.028 $\chi^2/\text{NDF}: 102.0/56$

All: 77.894 ± 27.873 $\chi^2/\text{NDF}: 173.3/107$

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 428.671 $\pm$ 0.084 χ^2 /NDF: 2232295.2/27

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 453.163 $\pm$ 0.084 χ^2 /NDF: 2472429.6/31

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

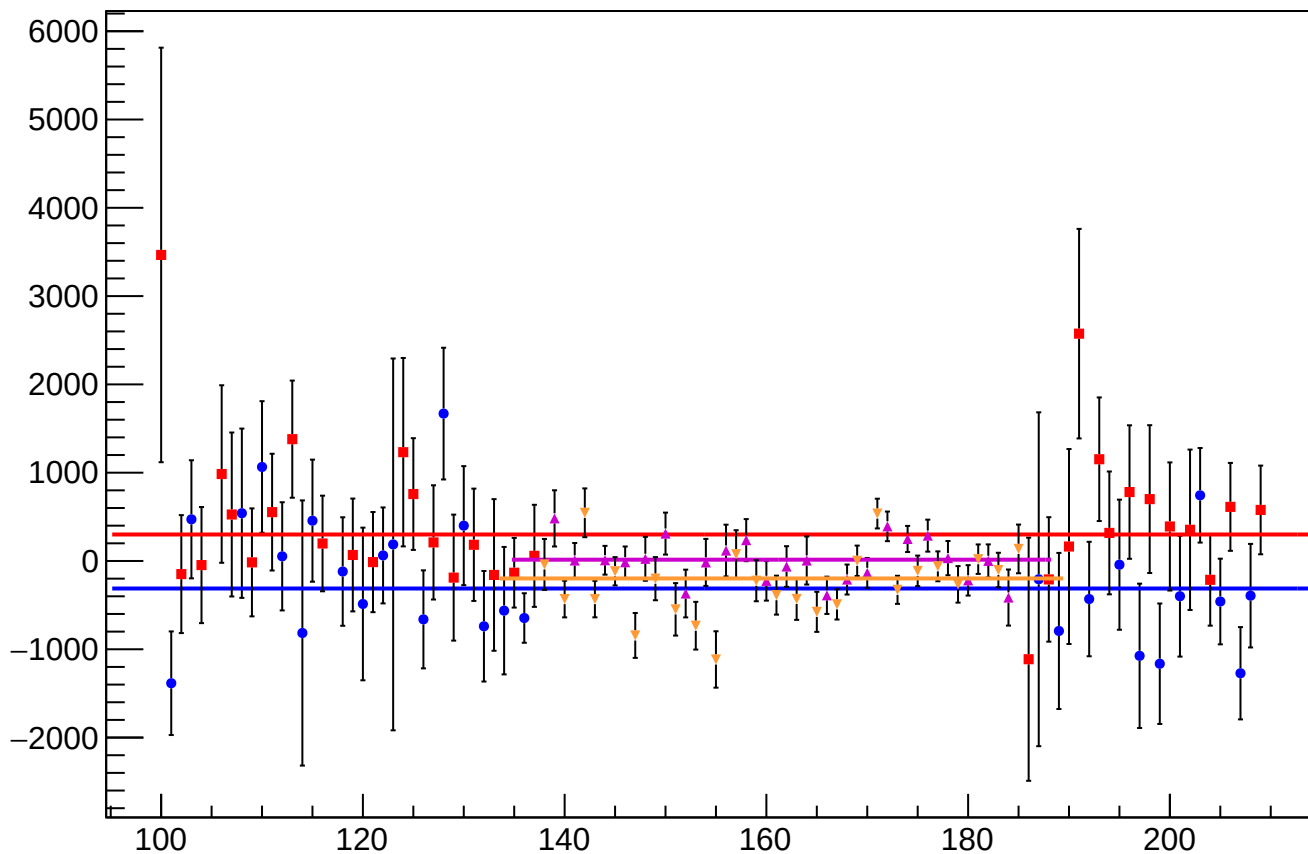
Right: 440.842 $\pm$ 0.059 χ^2 /NDF: 4747356.1/59

In: 201.839 $\pm$ 0.028 χ^2 /NDF:11904412.0/50

Out: 203.332 $\pm$ 0.028 χ^2 /NDF:13914968.8/56

All: 202.601 $\pm$ 0.020 χ^2 /NDF: 25820816.0/10

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -311.816 ± 118.565 $\chi^2/\text{NDF}: 32.1/27$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 300.057 ± 119.314 $\chi^2/\text{NDF}: 19.2/31$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

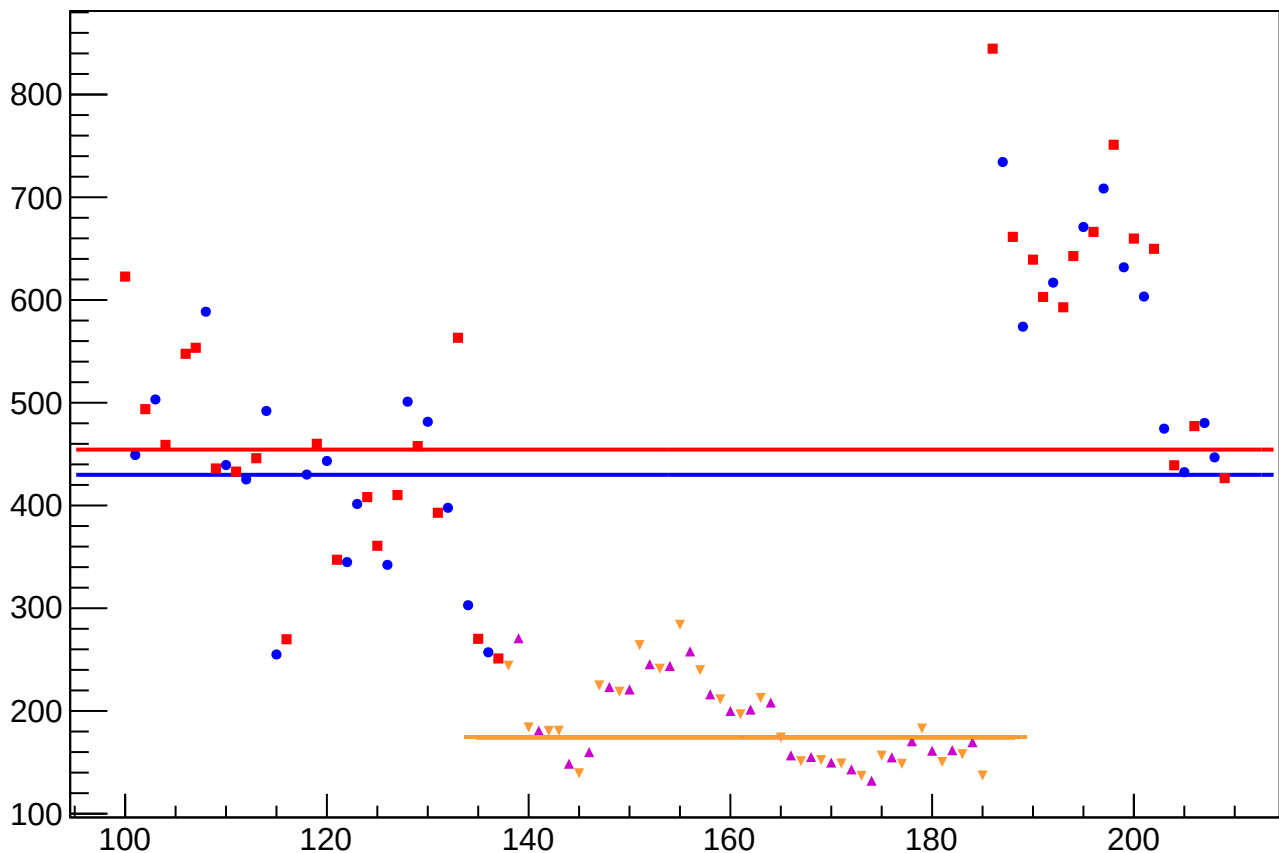
Right: -7.805 ± 84.102 $\chi^2/\text{NDF}: 64.5/59$

In: -22.752 ± 40.115 $\chi^2/\text{NDF}: 66.6/50$

Out: -143.855 ± 39.313 $\chi^2/\text{NDF}: 98.9/56$

All: -84.527 ± 28.078 $\chi^2/\text{NDF}: 170.2/107$

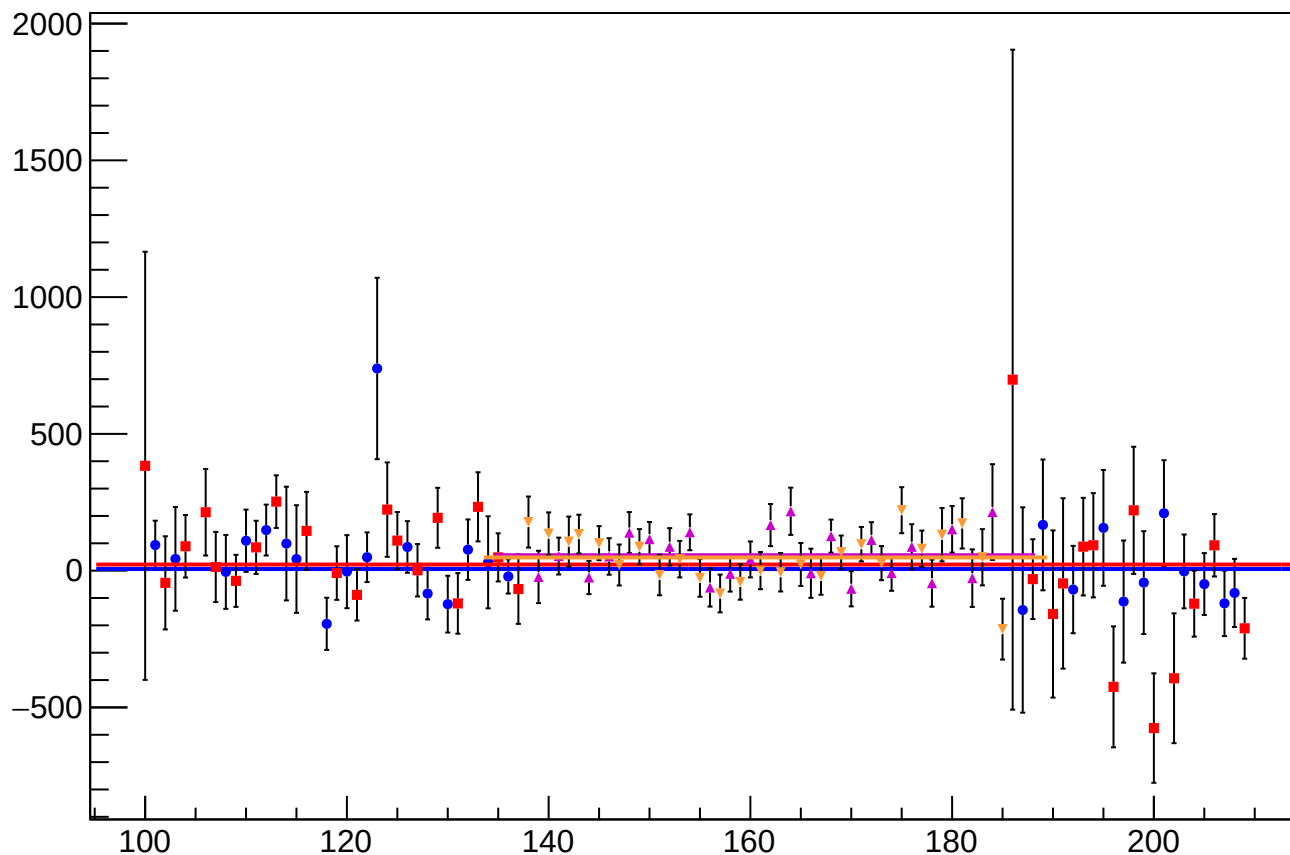
asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 429.858 ± 0.084 $\chi^2/\text{NDF}: 2225692.1/27$
 Left Out: 174.648 ± 0.029 $\chi^2/\text{NDF}: 1531999.5/24$
 Right Out: 454.394 ± 0.084 $\chi^2/\text{NDF}: 2475614.3/31$
 Left In: 174.288 ± 0.030 $\chi^2/\text{NDF}: 1344779.5/22$

Left: 174.472 ± 0.021 $\chi^2/\text{NDF}: 2876851.9/47$
 Right: 442.049 ± 0.059 $\chi^2/\text{NDF}: 4743861.3/59$
 In: 203.544 ± 0.028 $\chi^2/\text{NDF}: 11799292.4/50$
 Out: 205.019 ± 0.028 $\chi^2/\text{NDF}: 13808540.0/56$
 All: 204.296 ± 0.020 $\chi^2/\text{NDF}: 25609210.5/10$

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 5.904 ± 23.153 χ^2/NDF : 22.4/27

Left Out: 48.233 ± 14.616 χ^2/NDF : 29.3/24

Right Out: 22.301 ± 22.982 χ^2/NDF : 44.6/31

Left In: 56.403 ± 15.182 χ^2/NDF : 27.5/22

Left: 52.163 ± 10.529 χ^2/NDF : 56.9/47

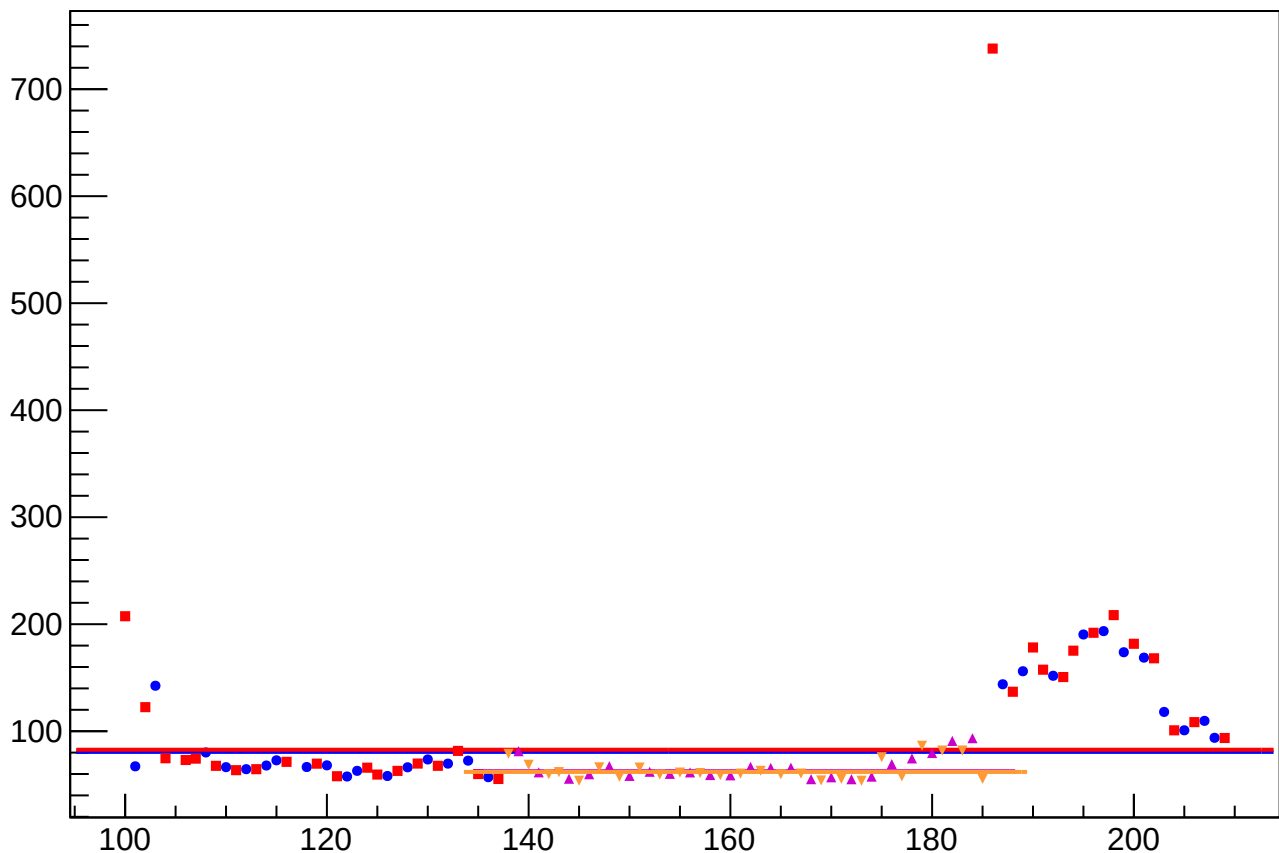
Right: 14.163 ± 16.311 χ^2/NDF : 67.2/59

In: 41.219 ± 12.696 χ^2/NDF : 53.2/50

Out: 40.765 ± 12.333 χ^2/NDF : 74.8/56

All: 40.986 ± 8.846 χ^2/NDF : 127.9/107

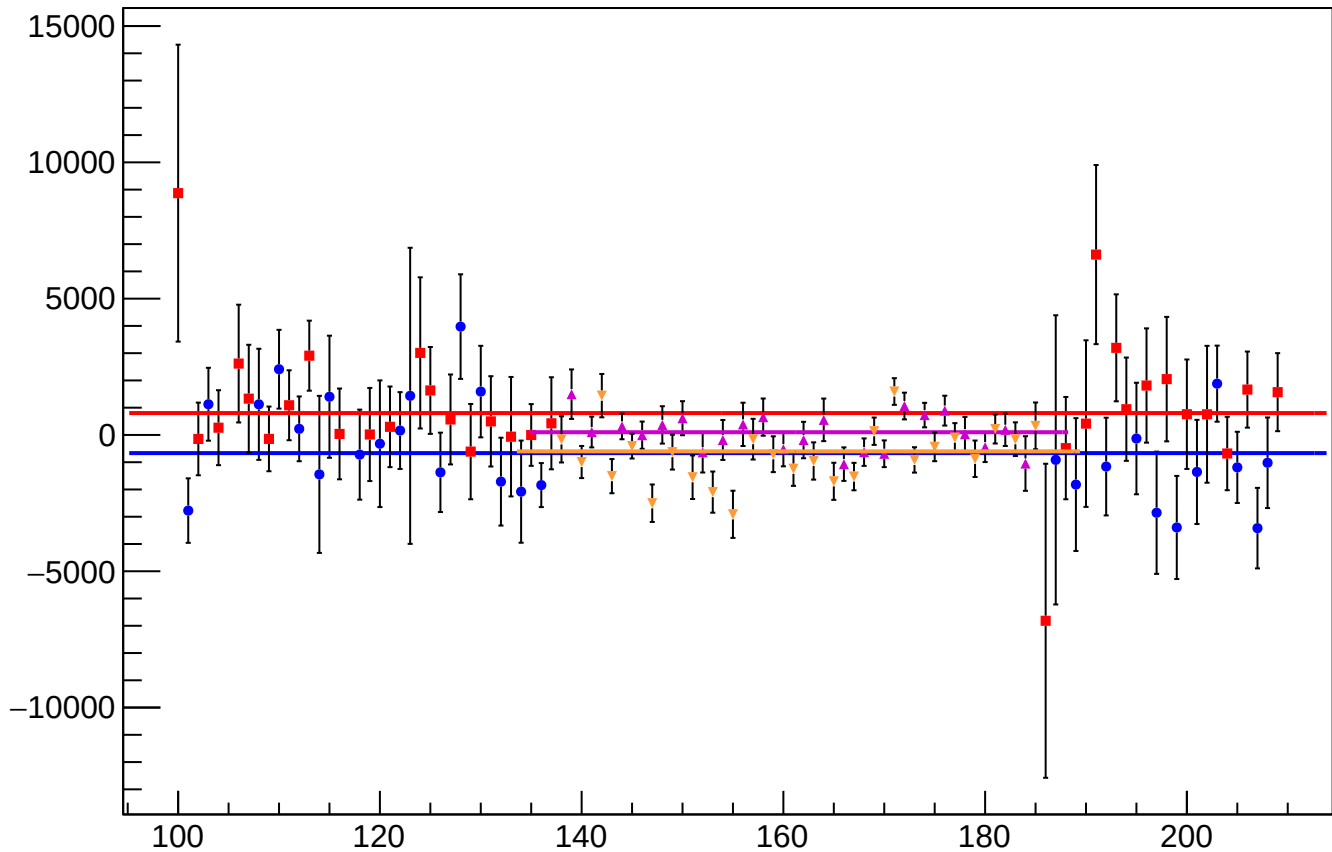
reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 80.677 $\pm$ 0.016 χ^2 /NDF: 3996985.0/27
 Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24
 Right Out: 82.690 $\pm$ 0.016 χ^2 /NDF: 4994634.1/31
 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: 81.691 $\pm$ 0.012 χ^2 /NDF: 8999236.4/59
 In: 68.040 $\pm$ 0.009 χ^2 /NDF: 5424413.2/50
 Out: 67.920 $\pm$ 0.009 χ^2 /NDF: 6759800.5/56
 All: 67.978 $\pm$ 0.006 χ^2 /NDF: 12184306.1/107

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -666.094 ± 303.737 $\chi^2/\text{NDF}: 33.8/27$

Left Out: -601.486 ± 122.119 $\chi^2/\text{NDF}: 65.4/24$

Right Out: 803.498 ± 301.055 $\chi^2/\text{NDF}: 19.1/31$

Left In: 100.548 ± 124.725 $\chi^2/\text{NDF}: 25.5/22$

Left: -257.880 ± 87.258 $\chi^2/\text{NDF}: 107.0/47$

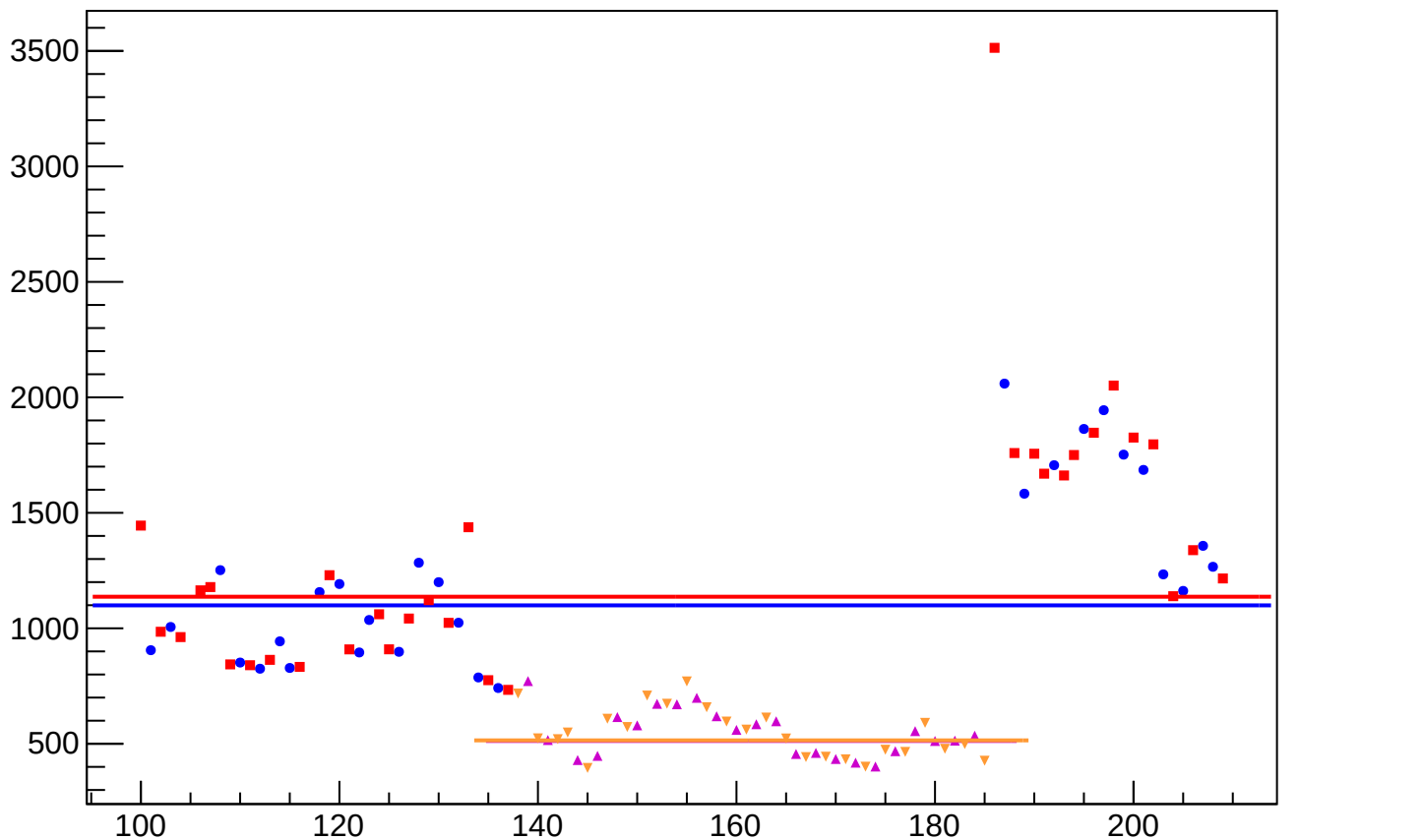
Right: 75.218 ± 213.820 $\chi^2/\text{NDF}: 64.8/59$

In: -10.071 ± 115.376 $\chi^2/\text{NDF}: 64.7/50$

Out: -402.973 ± 113.163 $\chi^2/\text{NDF}: 103.2/56$

All: -210.326 ± 80.789 $\chi^2/\text{NDF}: 173.9/107$

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1099.331 $\pm$ 0.215 χ^2 /NDF: 2306610.1/27

Left Out: 514.758 $\pm$ 0.086 χ^2 /NDF:1194945.9/24

Right Out: 1136.752 $\pm$ 0.213 χ^2 /NDF: 2939047.5/31

Left In: 512.199 $\pm$ 0.088 χ^2 /NDF:1041302.8/22

Left: 513.505 $\pm$ 0.062 χ^2 /NDF: 2236678.4/47

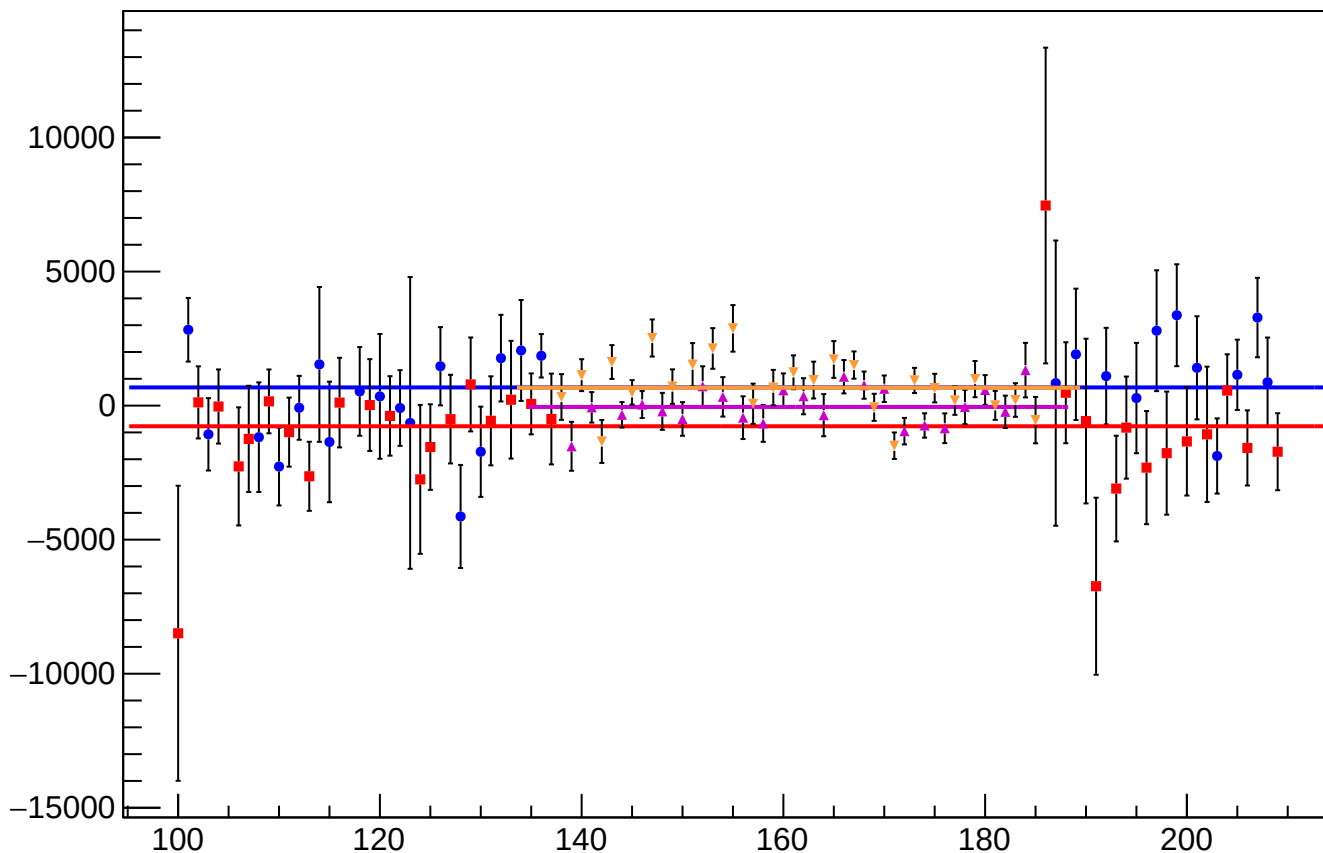
Right: 1118.207 $\pm$ 0.151 χ^2 /NDF: 5260970.9/59

In: 596.917 $\pm$ 0.082 χ^2 /NDF:9742804.7/50

Out: 602.640 $\pm$ 0.080 χ^2 /NDF:11464874.4/56

All: 599.834 $\pm$ 0.057 χ^2 /NDF: 21210187.9/10

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 678.852+/-304.873 χ^2/NDF : 33.3/27

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -770.057+/-302.307 χ^2/NDF : 18.5/31

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

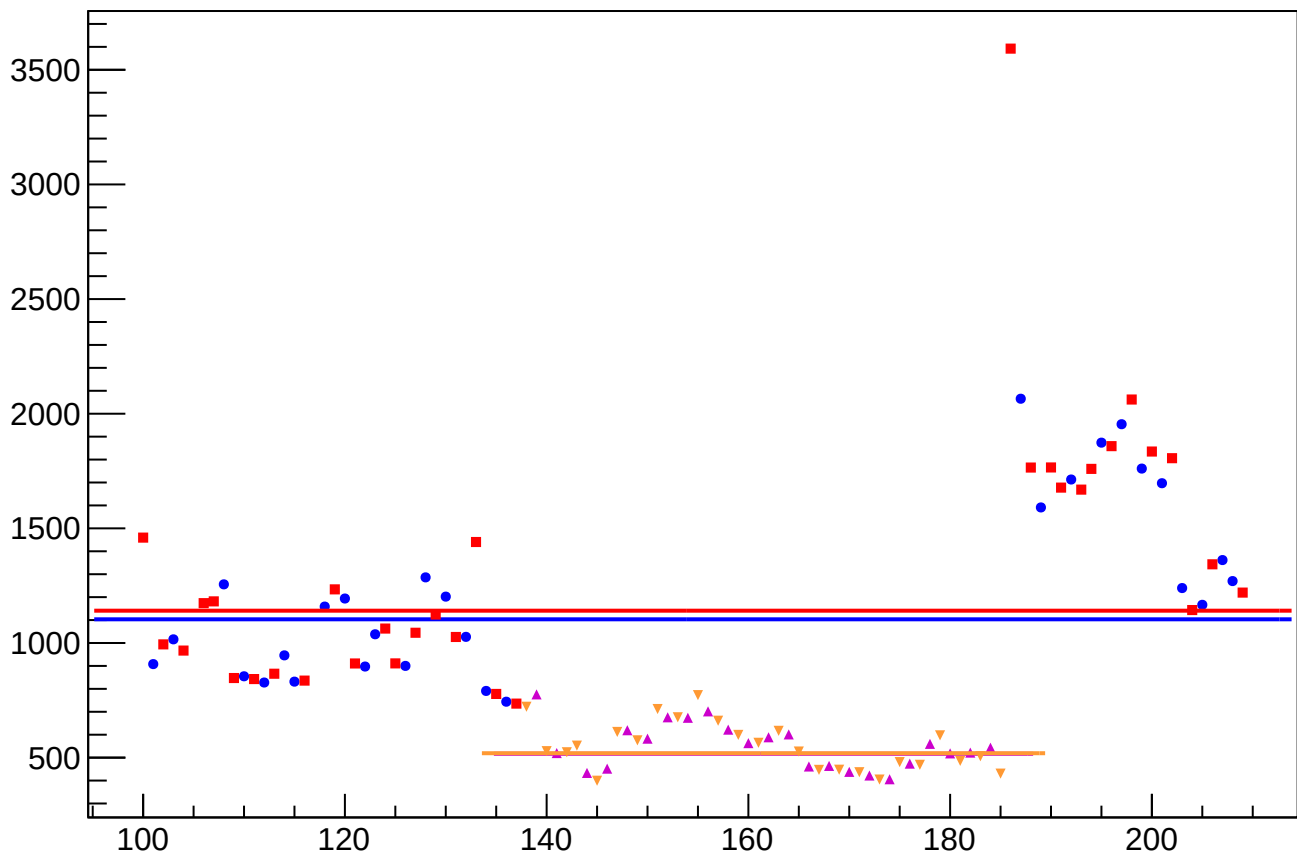
Right: -51.727+/-214.665 χ^2/NDF : 63.1/59

In: 55.982+/-116.293 χ^2/NDF : 64.3/50

Out: 463.013+/-114.046 χ^2/NDF : 99.4/56

All: 263.467+/-81.426 χ^2/NDF : 169.9/107

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1103.306 $\pm$ 0.216 χ^2/NDF : 2313436.1/27

Left Out: 519.254 $\pm$ 0.087 χ^2/NDF : 1172411.1/24

Right Out: 1140.929 $\pm$ 0.214 χ^2/NDF : 2953565.9/31

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

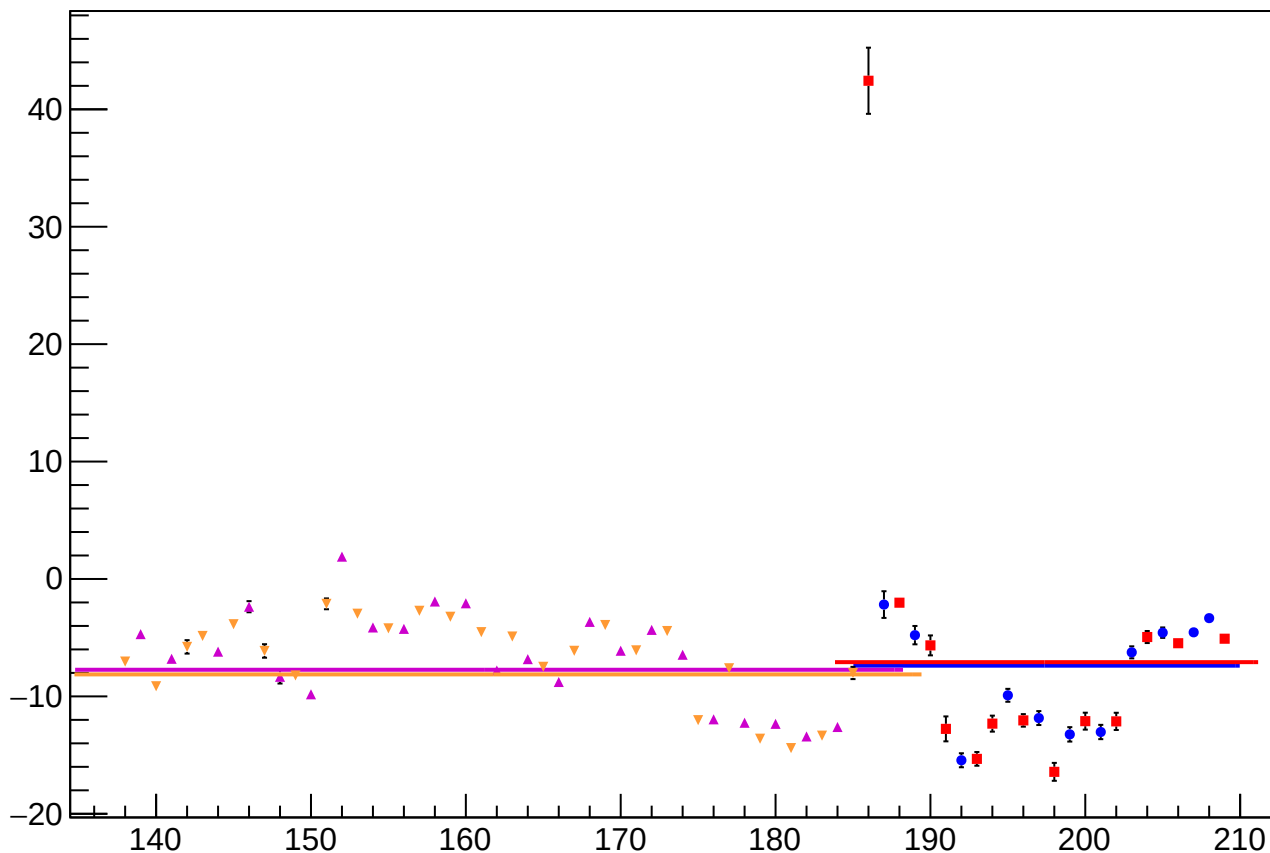
Right: 1122.276 $\pm$ 0.152 χ^2/NDF : 5282359.4/59

In: 602.131 $\pm$ 0.082 χ^2/NDF : 9659799.7/50

Out: 607.731 $\pm$ 0.081 χ^2/NDF : 11380122.1/56

All: 604.985 $\pm$ 0.058 χ^2/NDF : 21042286.1/10

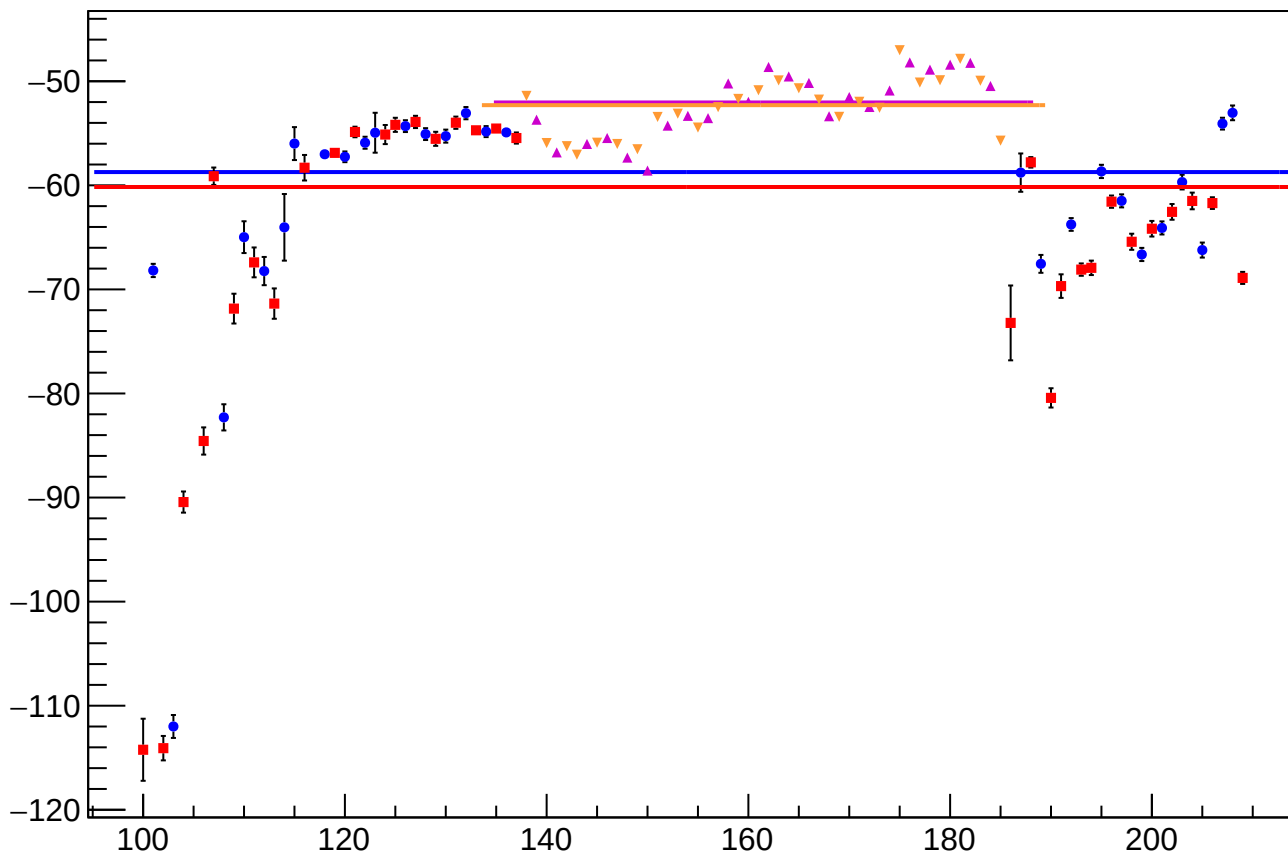
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.383 ± 0.159 χ^2/NDF : 682.0/10
 Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24
 Right Out: -7.084 ± 0.147 χ^2/NDF : 1234.3/12
 Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47
 Right: -7.221 ± 0.108 χ^2/NDF : 1918.3/23
 In: -7.677 ± 0.063 χ^2/NDF : 4405.1/33
 Out: -7.946 ± 0.061 χ^2/NDF : 4911.6/37
 All: -7.816 ± 0.044 χ^2/NDF : 9326.0/71

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.725 ± 0.118 $\chi^2/\text{NDF}: 4186.0/27$

Left Out: -52.297 ± 0.055 $\chi^2/\text{NDF}: 2657.5/24$

Right Out: -60.160 ± 0.115 $\chi^2/\text{NDF}: 6207.0/31$

Left In: -52.038 ± 0.057 $\chi^2/\text{NDF}: 3180.4/22$

Left: -52.172 ± 0.040 $\chi^2/\text{NDF}: 5848.6/47$

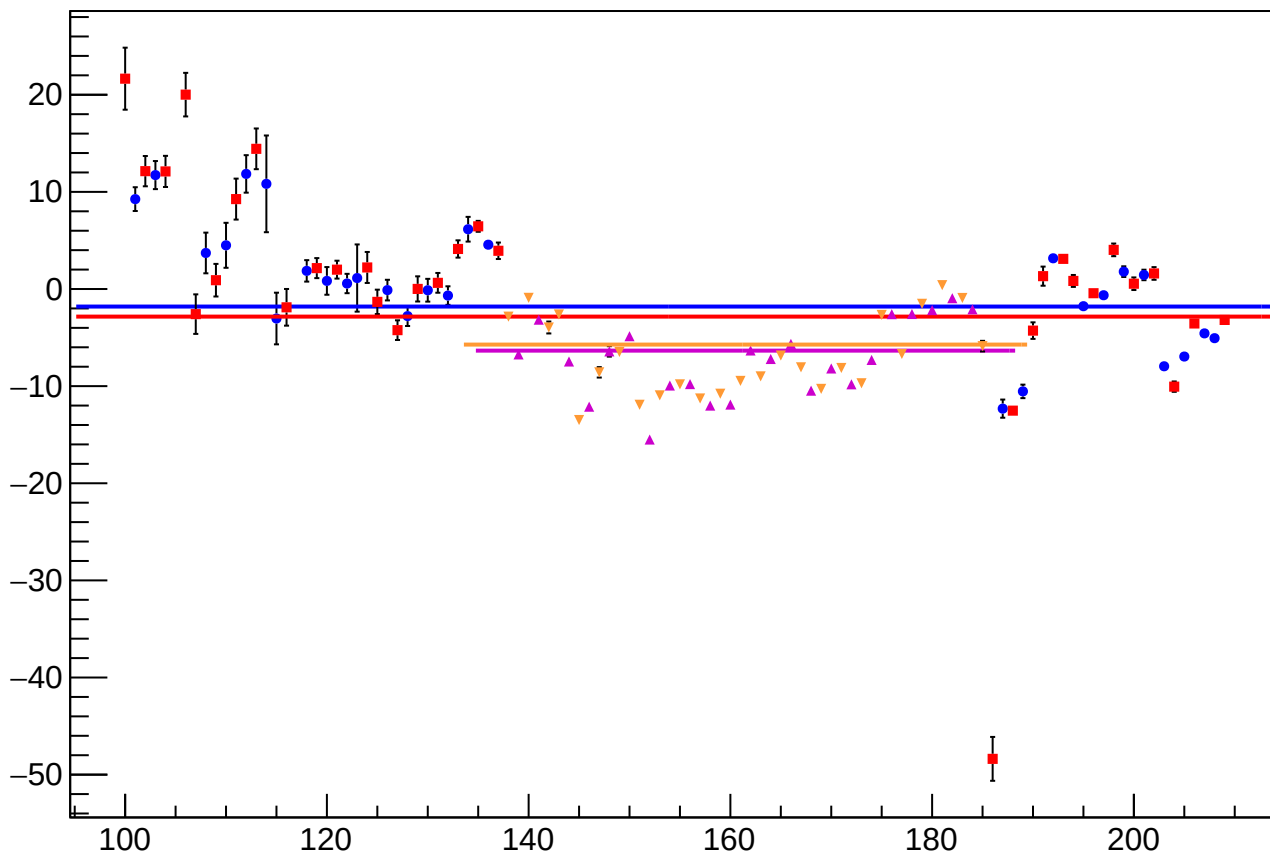
Right: -59.459 ± 0.082 $\chi^2/\text{NDF}: 10469.0/59$

In: -53.313 ± 0.051 $\chi^2/\text{NDF}: 9976.8/50$

Out: -53.761 ± 0.050 $\chi^2/\text{NDF}: 12661.9/56$

All: -53.545 ± 0.036 $\chi^2/\text{NDF}: 22677.9/107$

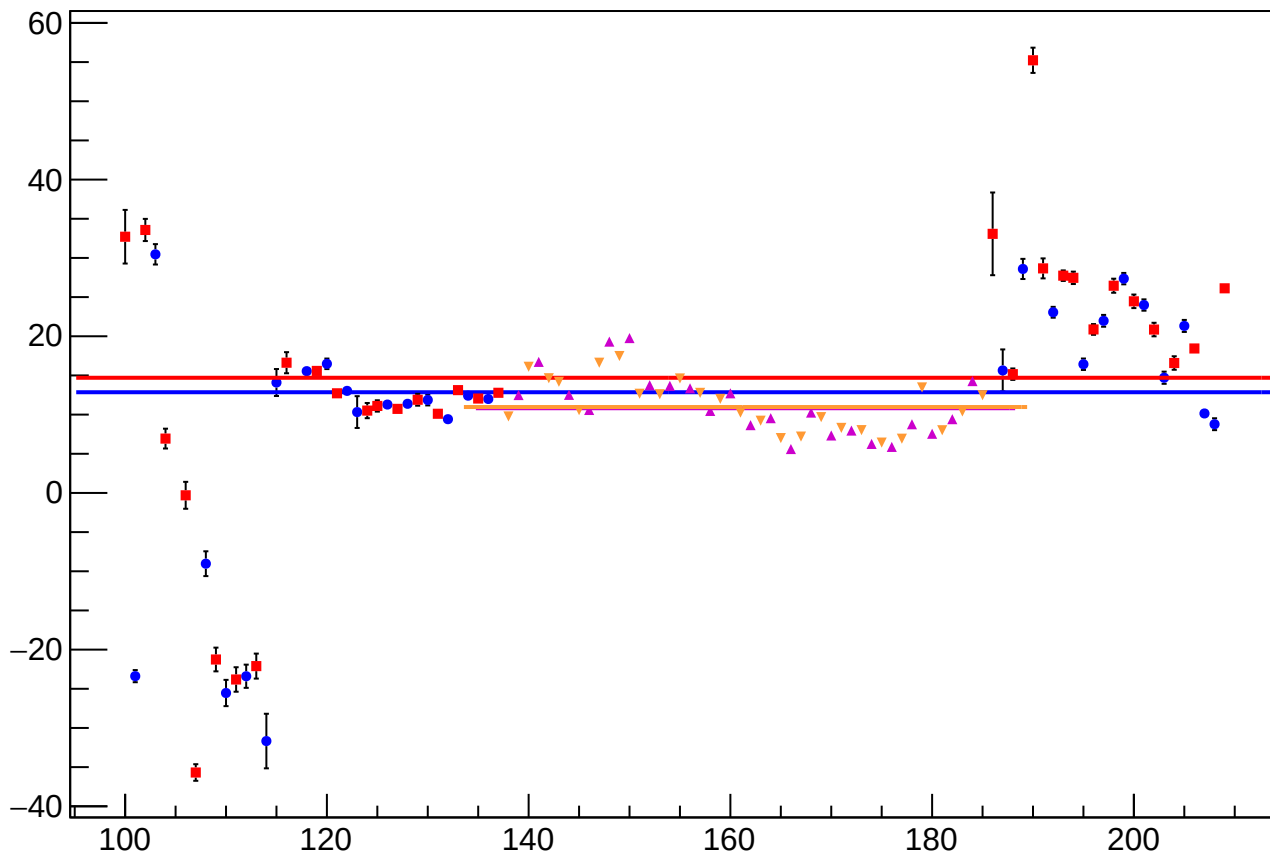
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.806 ± 0.129 χ^2/NDF : 1416.3/27
 Left Out: -5.722 ± 0.068 χ^2/NDF : 3983.0/24
 Right Out: -2.841 ± 0.120 χ^2/NDF : 3189.7/31
 Left In: -6.344 ± 0.069 χ^2/NDF : 3383.7/22

Left: -6.028 ± 0.048 χ^2/NDF : 7408.5/47
 Right: -2.362 ± 0.088 χ^2/NDF : 4640.5/59
 In: -5.343 ± 0.061 χ^2/NDF : 5764.3/50
 Out: -5.026 ± 0.059 χ^2/NDF : 7611.5/56
 All: -5.180 ± 0.042 χ^2/NDF : 13389.8/107

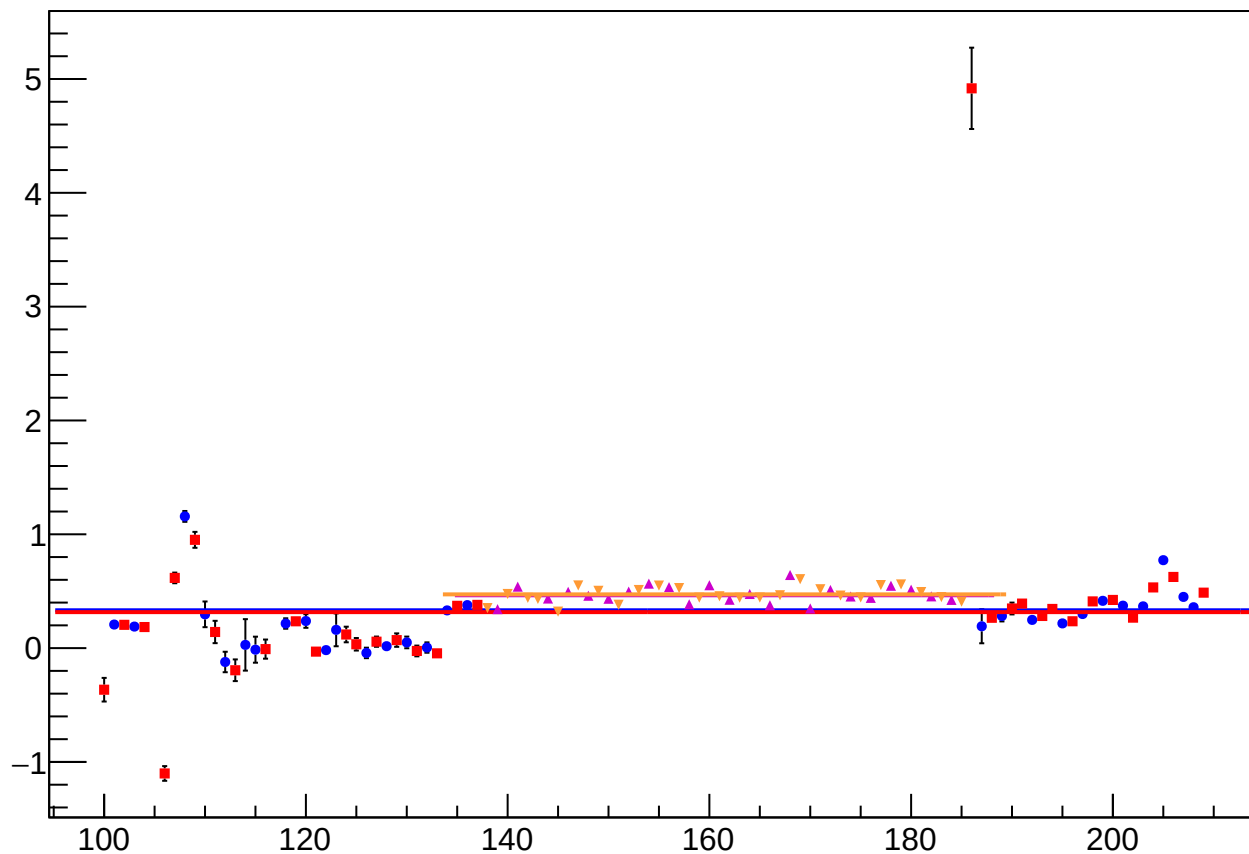
reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.856 ± 0.131 χ^2/NDF : 5306.5/27
 Left Out: 10.967 ± 0.061 χ^2/NDF : 2637.7/24
 Right Out: 14.703 ± 0.131 χ^2/NDF : 6754.6/31
 Left In: 10.813 ± 0.063 χ^2/NDF : 3546.8/22

Left: 10.892 ± 0.044 χ^2/NDF : 6187.5/47
 Right: 13.783 ± 0.093 χ^2/NDF : 12160.3/59
 In: 11.197 ± 0.057 χ^2/NDF : 9049.7/50
 Out: 11.641 ± 0.056 χ^2/NDF : 10060.4/56
 All: 11.424 ± 0.040 χ^2/NDF : 19141.4/107

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.332 ± 0.006 $\chi^2/\text{NDF}: 912.9/27$

Left Out: 0.472 ± 0.003 $\chi^2/\text{NDF}: 519.0/24$

Right Out: 0.316 ± 0.006 $\chi^2/\text{NDF}: 1539.2/31$

Left In: 0.464 ± 0.003 $\chi^2/\text{NDF}: 733.1/22$

Left: 0.468 ± 0.002 $\chi^2/\text{NDF}: 1256.2/47$

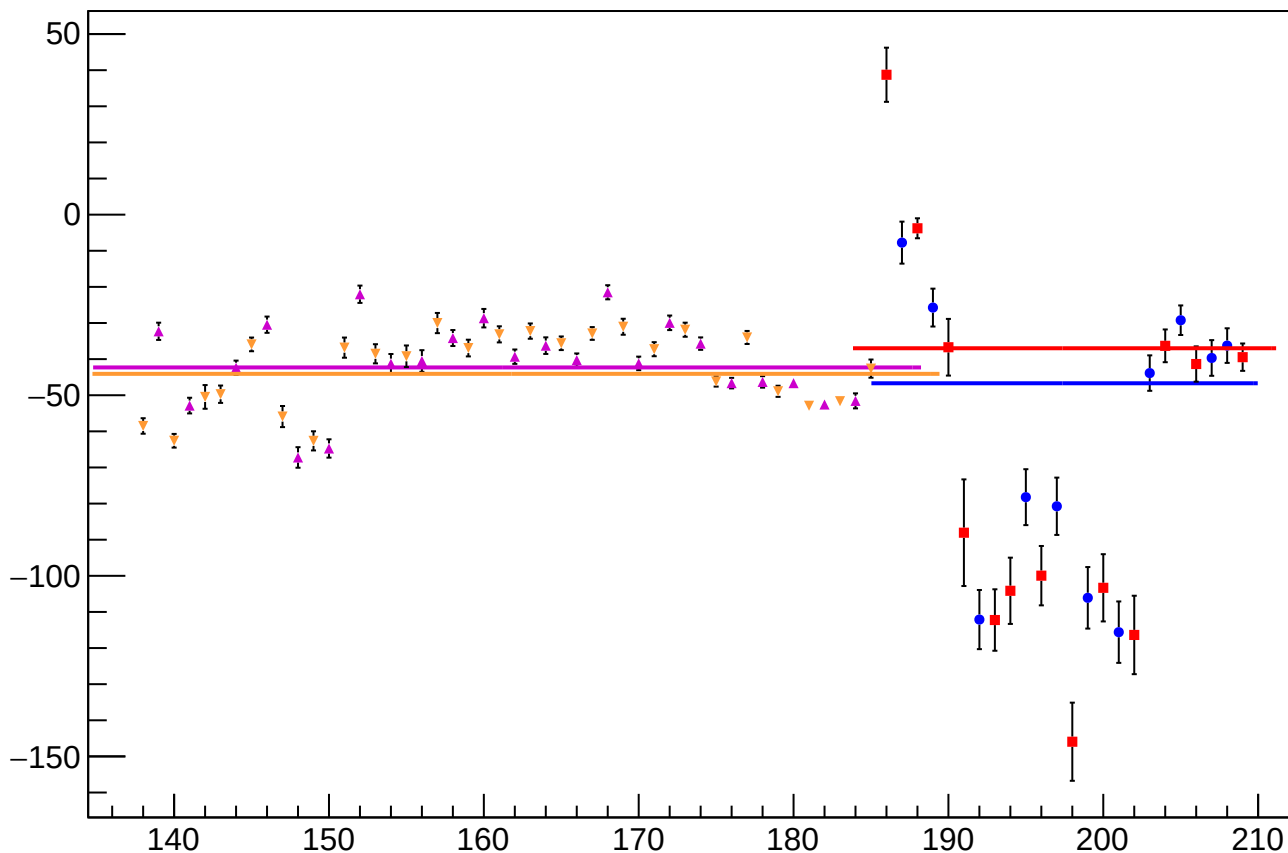
Right: 0.324 ± 0.004 $\chi^2/\text{NDF}: 2456.1/59$

In: 0.439 ± 0.002 $\chi^2/\text{NDF}: 2079.7/50$

Out: 0.443 ± 0.002 $\chi^2/\text{NDF}: 2664.6/56$

All: 0.441 ± 0.002 $\chi^2/\text{NDF}: 4745.6/107$

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -46.686 ± 1.749 χ^2/NDF : 299.2/10

Left Out: -44.077 ± 0.389 χ^2/NDF : 632.6/24

Right Out: -36.992 ± 1.584 χ^2/NDF : 655.6/12

Left In: -42.304 ± 0.399 χ^2/NDF : 640.6/22

Left: -43.214 ± 0.278 χ^2/NDF : 1283.3/47

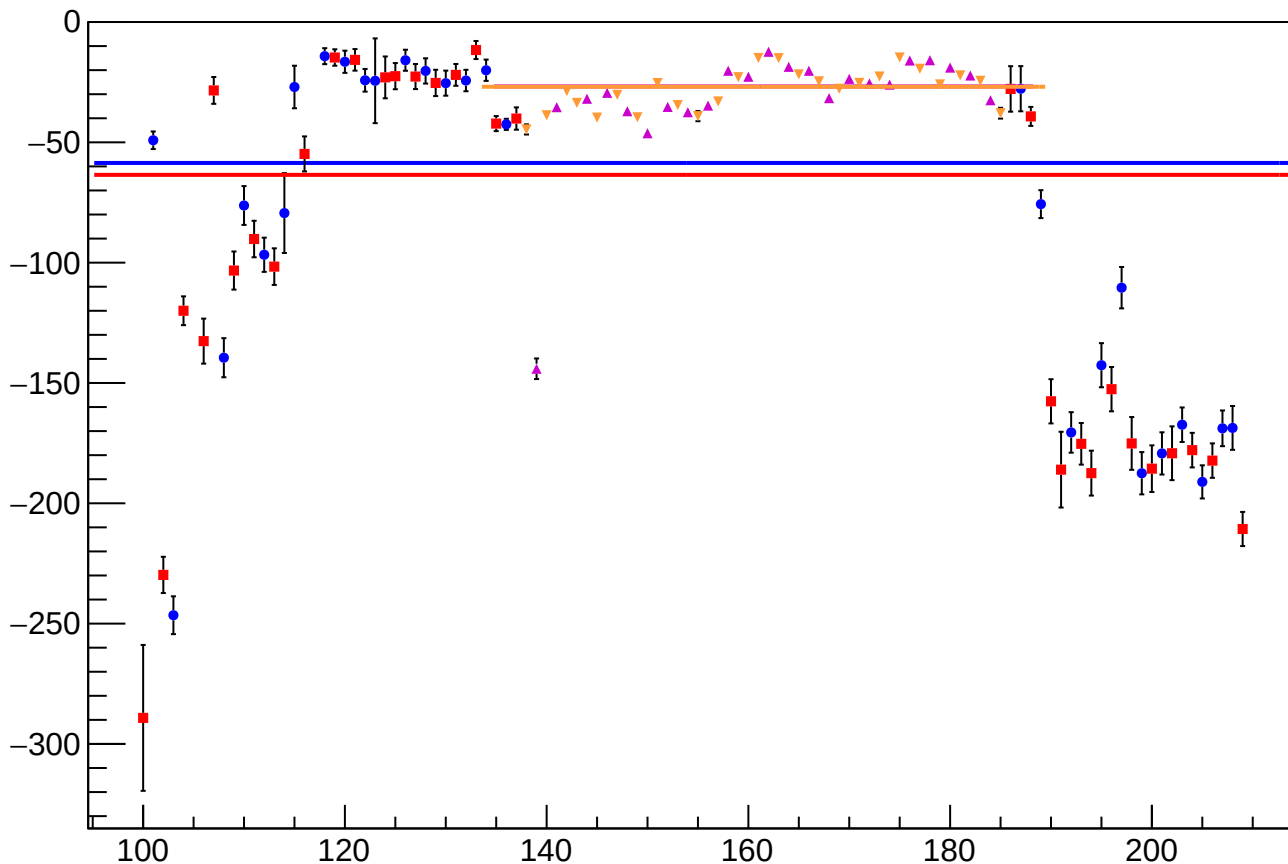
Right: -41.359 ± 1.174 χ^2/NDF : 971.6/23

In: -42.521 ± 0.389 χ^2/NDF : 945.8/33

Out: -43.675 ± 0.377 χ^2/NDF : 1307.0/37

All: -43.116 ± 0.271 χ^2/NDF : 2257.3/71

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.568 ± 1.035 $\chi^2/\text{NDF}: 3104.8/27$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -63.519 ± 1.057 $\chi^2/\text{NDF}: 3626.8/31$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

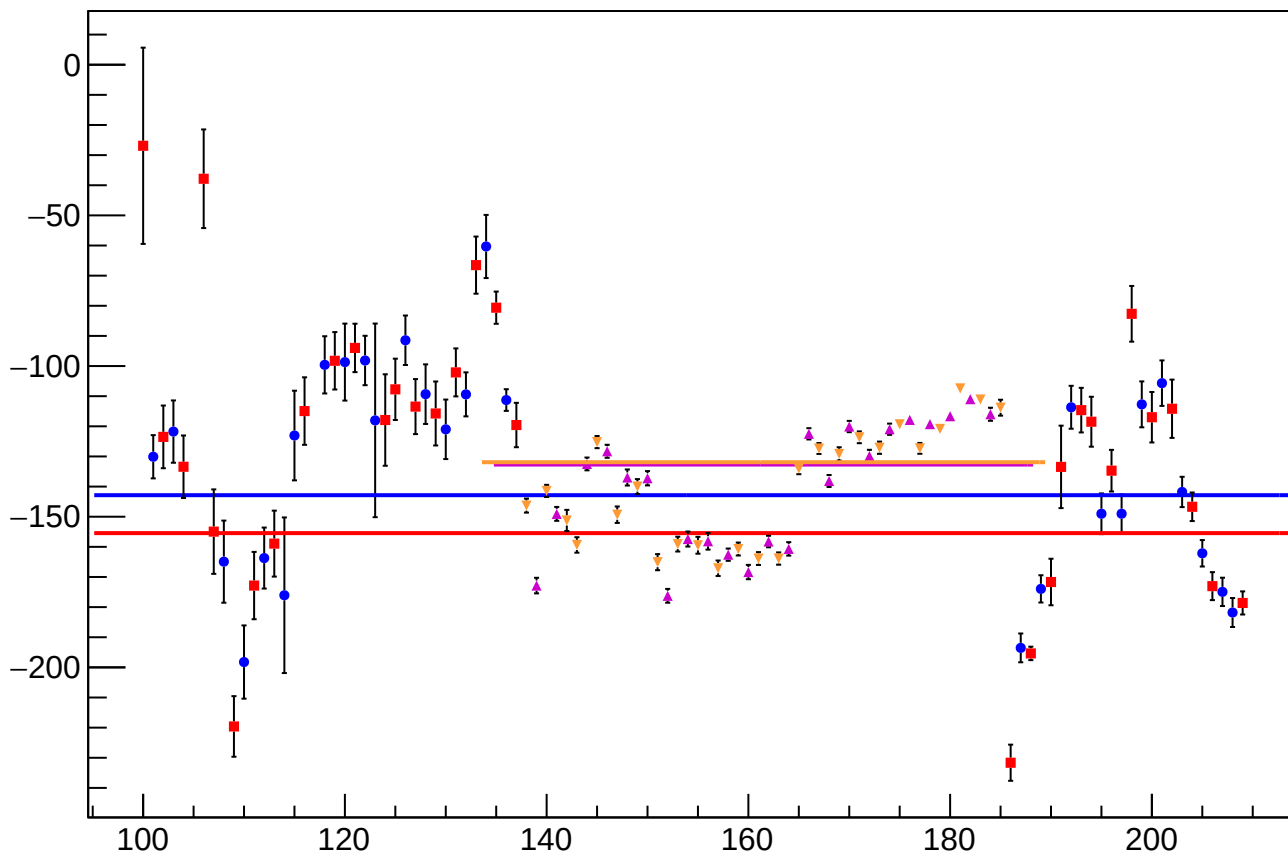
Right: -60.990 ± 0.739 $\chi^2/\text{NDF}: 6742.8/59$

In: -29.650 ± 0.311 $\chi^2/\text{NDF}: 5358.0/50$

Out: -29.910 ± 0.303 $\chi^2/\text{NDF}: 5358.9/56$

All: -29.783 ± 0.217 $\chi^2/\text{NDF}: 10717.3/107$

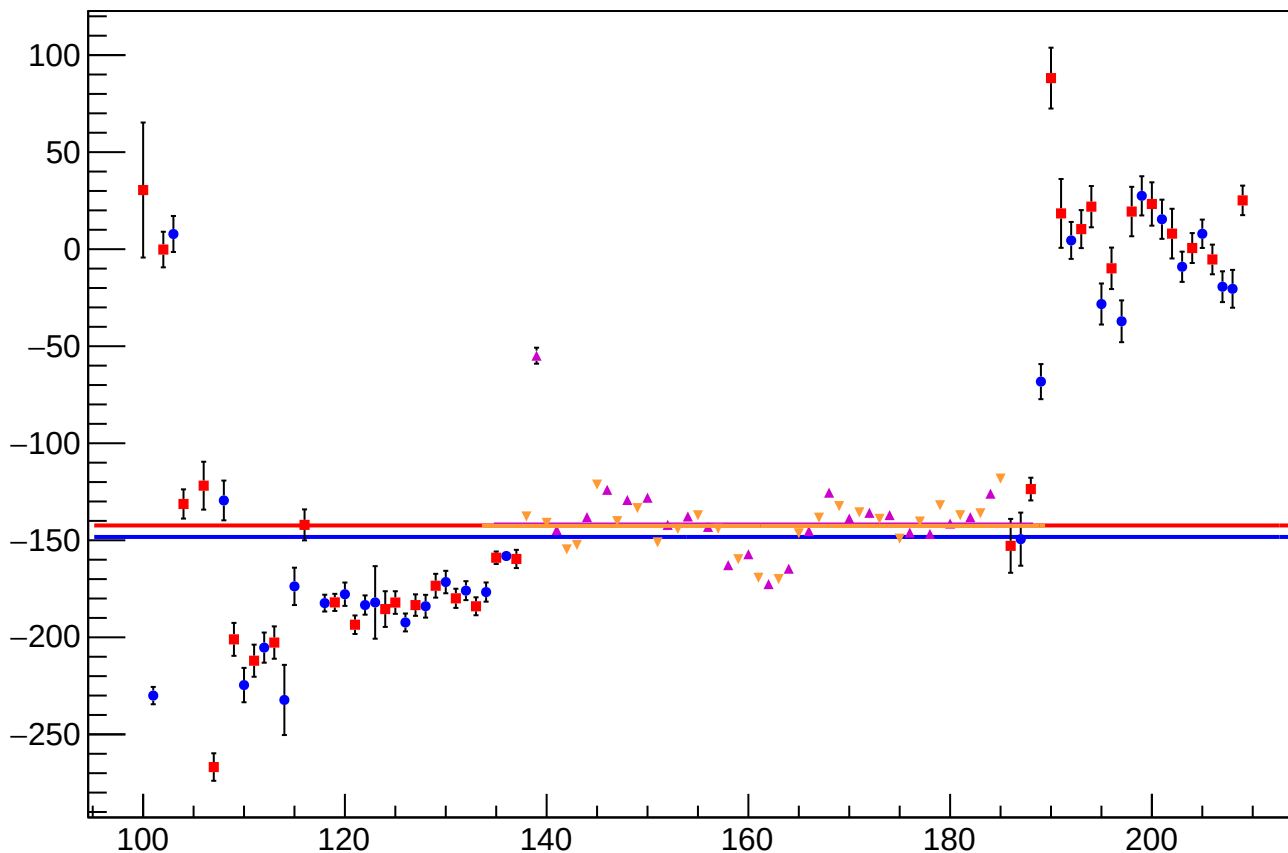
reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -142.854 ± 1.287 χ^2/NDF : 667.0/27
 Left Out: -131.912 ± 0.391 χ^2/NDF : 2439.3/24
 Right Out: -155.444 ± 1.191 χ^2/NDF : 1351.5/31
 Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47
 Right: -149.634 ± 0.874 χ^2/NDF : 2070.0/59
 In: -133.583 ± 0.381 χ^2/NDF : 3204.1/50
 Out: -134.206 ± 0.372 χ^2/NDF : 4143.0/56
 All: -133.902 ± 0.266 χ^2/NDF : 7348.5/107

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -148.278 ± 1.163 χ^2/NDF : 3493.0/27

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -142.358 ± 1.210 χ^2/NDF : 3887.6/31

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

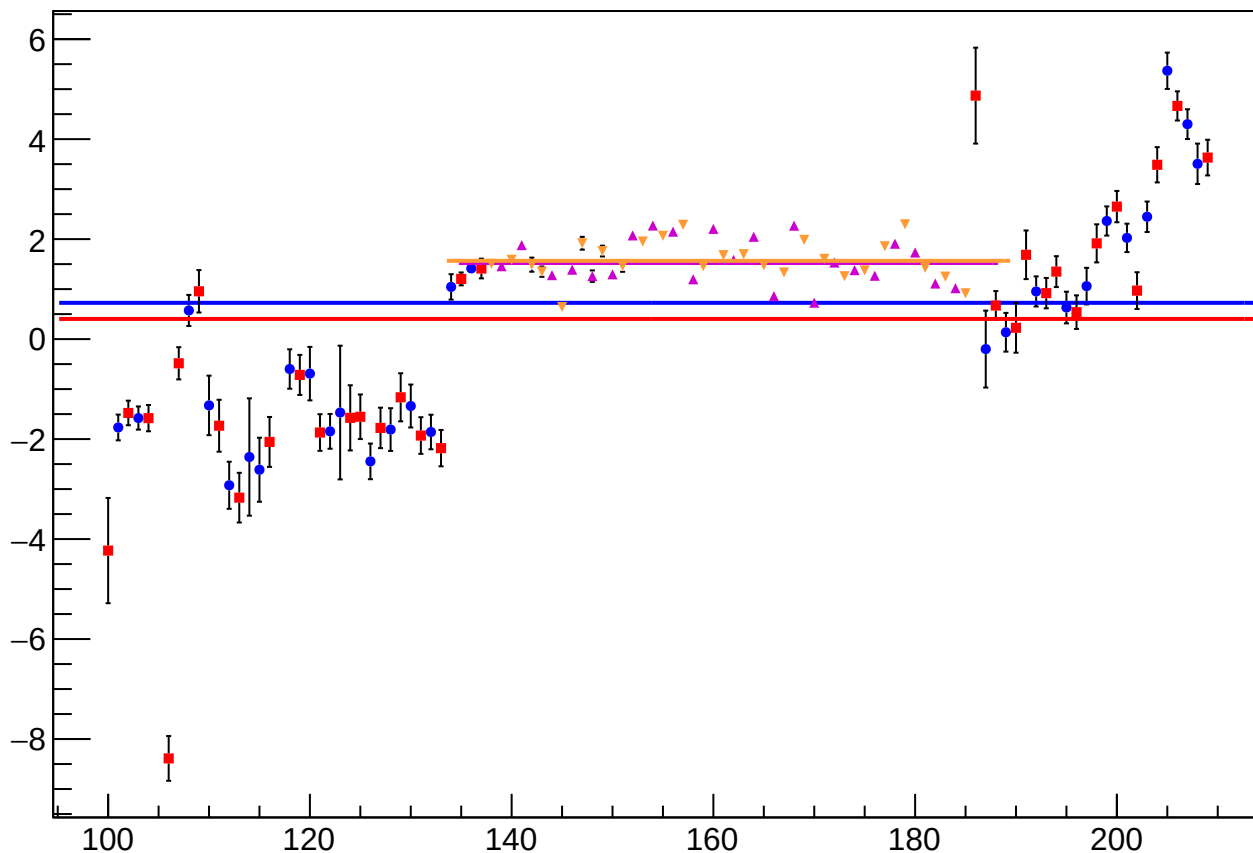
Right: -145.435 ± 0.839 χ^2/NDF : 7393.0/59

In: -142.428 ± 0.347 χ^2/NDF : 5065.0/50

Out: -142.548 ± 0.340 χ^2/NDF : 5035.3/56

All: -142.489 ± 0.243 χ^2/NDF : 10100.4/107

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.726 ± 0.056 $\chi^2/\text{NDF}: 1063.3/27$

Left Out: 1.566 ± 0.016 $\chi^2/\text{NDF}: 542.8/24$

Right Out: 0.403 ± 0.058 $\chi^2/\text{NDF}: 1376.5/31$

Left In: 1.523 ± 0.017 $\chi^2/\text{NDF}: 738.5/22$

Left: 1.545 ± 0.012 $\chi^2/\text{NDF}: 1284.8/47$

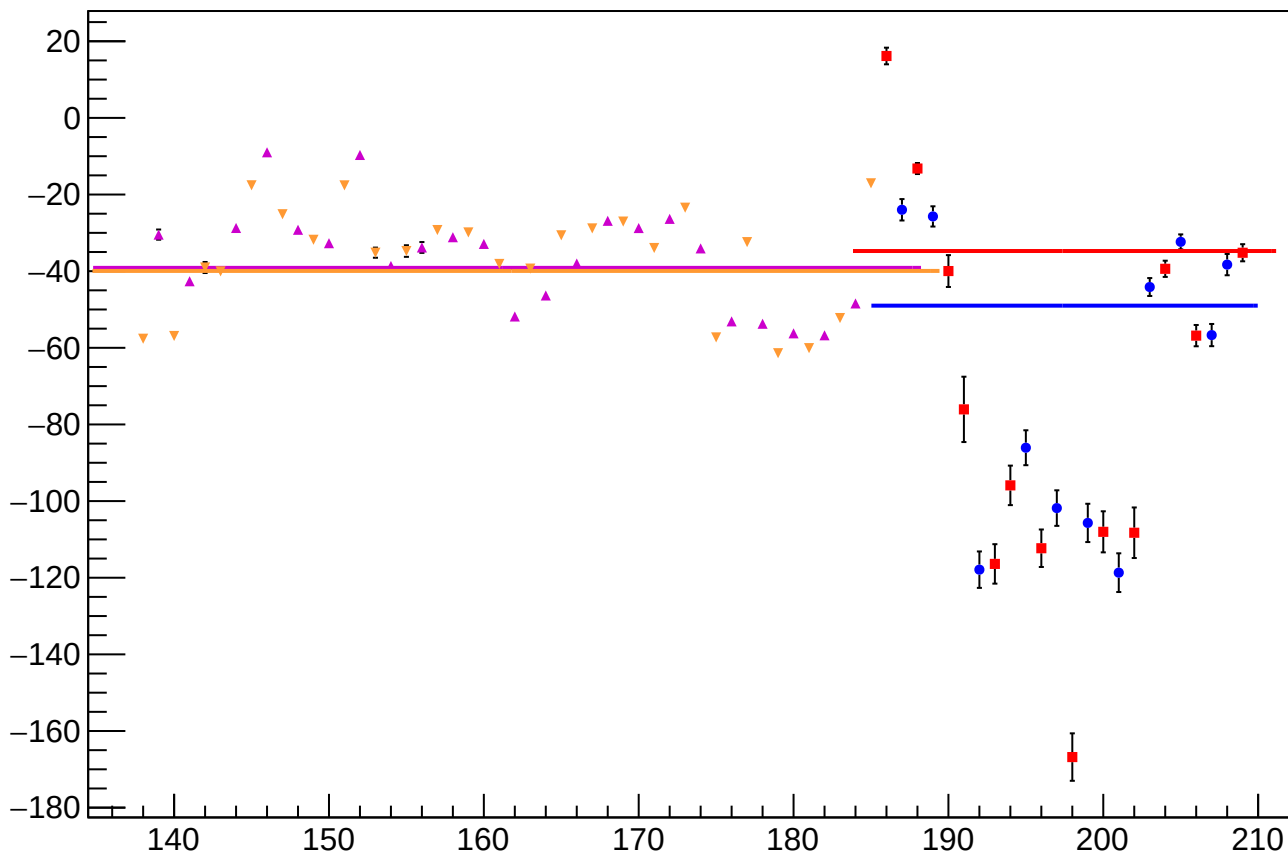
Right: 0.569 ± 0.040 $\chi^2/\text{NDF}: 2455.8/59$

In: 1.459 ± 0.016 $\chi^2/\text{NDF}: 1987.7/50$

Out: 1.482 ± 0.016 $\chi^2/\text{NDF}: 2295.1/56$

All: 1.471 ± 0.011 $\chi^2/\text{NDF}: 4283.8/107$

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



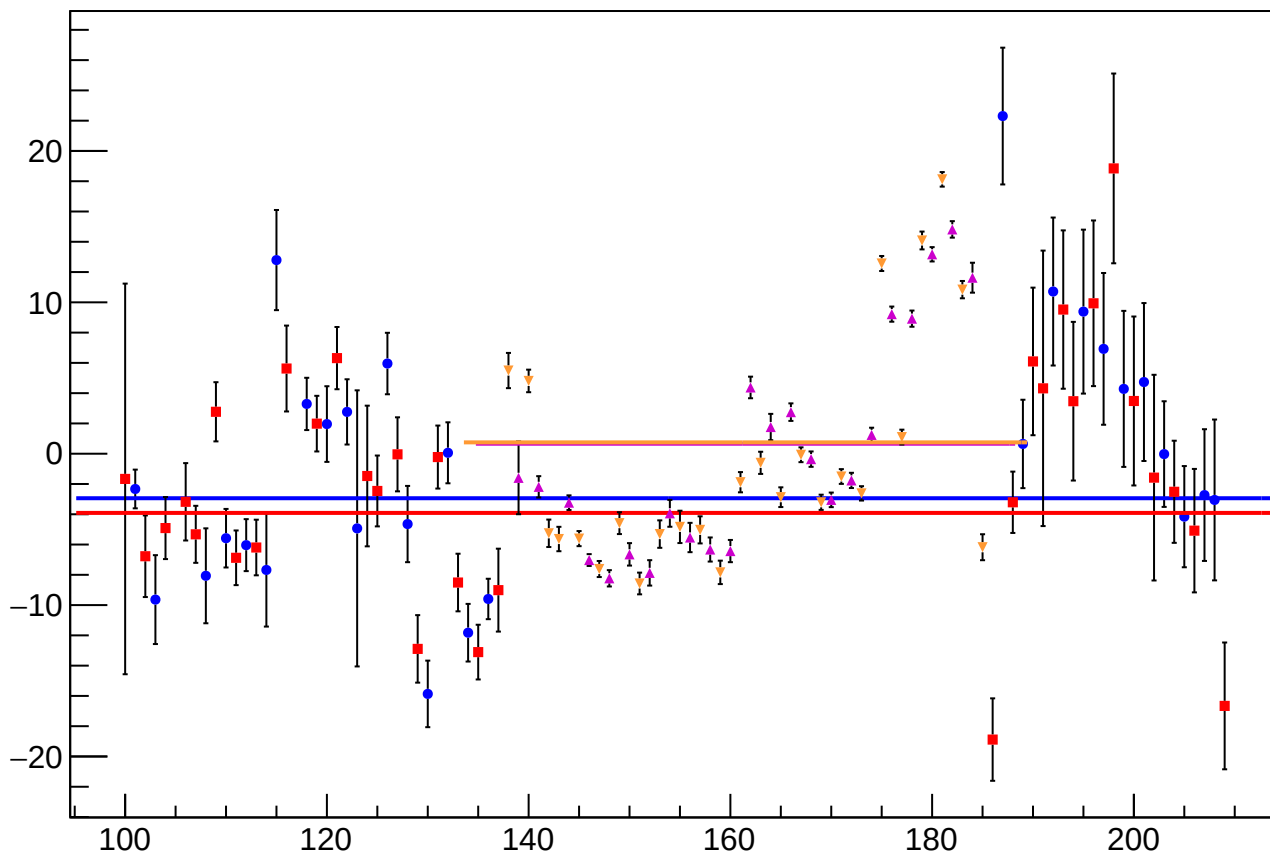
Right In: -48.998 ± 0.919 χ^2/NDF : 981.9/10
 Left Out: -39.935 ± 0.153 χ^2/NDF : 9806.5/24
 Right Out: -34.738 ± 0.811 χ^2/NDF : 2275.6/12
 Left In: -39.137 ± 0.155 χ^2/NDF : 8534.5/22

Left: -39.540 ± 0.109 χ^2/NDF : 18354.5/47
 Right: -40.983 ± 0.608 χ^2/NDF : 3392.9/23

In: -39.409 ± 0.152 χ^2/NDF : 9628.4/33
 Out: -39.756 ± 0.151 χ^2/NDF : 12121.8/37

All: -39.585 ± 0.107 χ^2/NDF : 21752.8/71

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.941 ± 0.465 χ^2/NDF : 219.0/27

Left Out: 0.749 ± 0.124 χ^2/NDF : 3970.9/24

Right Out: -3.911 ± 0.461 χ^2/NDF : 197.0/31

Left In: 0.660 ± 0.124 χ^2/NDF : 3337.8/22

Left: 0.705 ± 0.088 χ^2/NDF : 7308.9/47

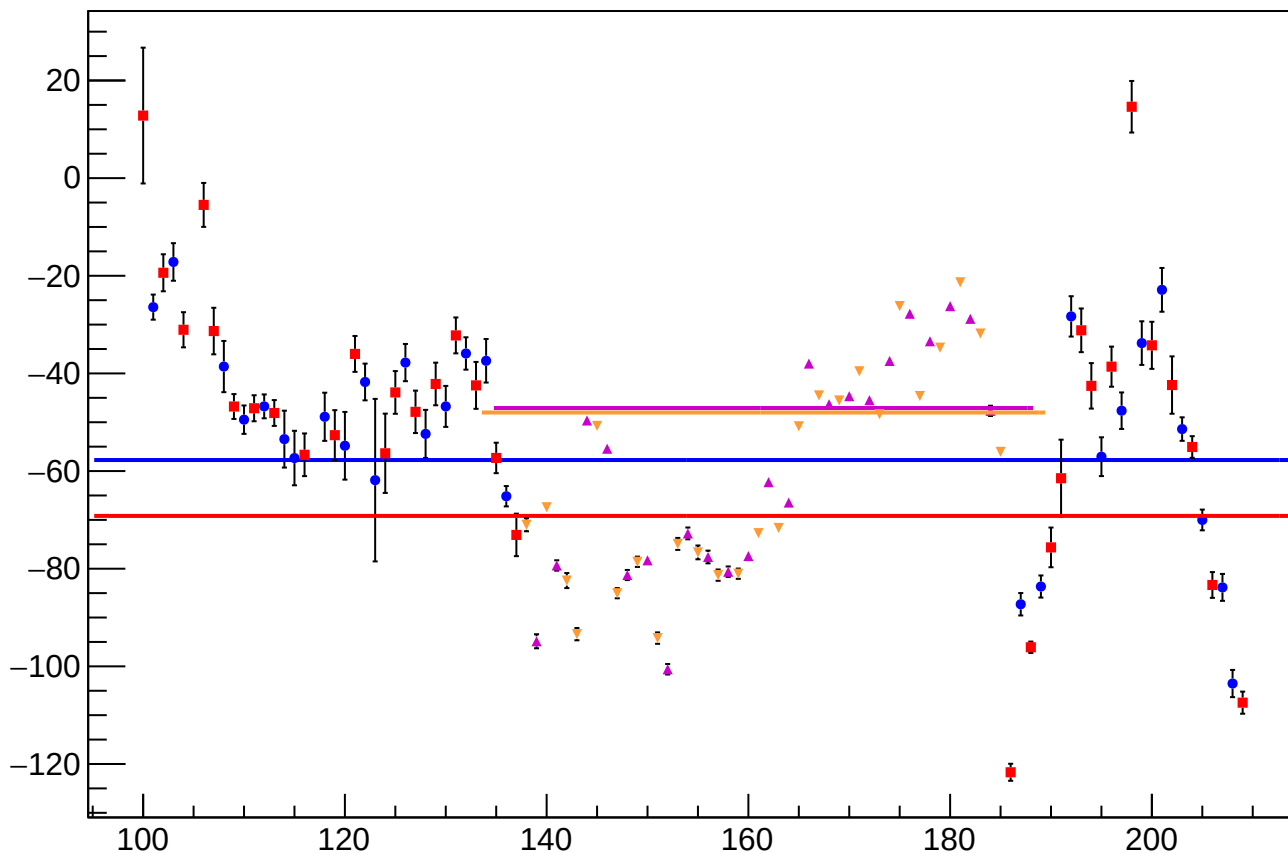
Right: -3.430 ± 0.327 χ^2/NDF : 418.2/59

In: 0.420 ± 0.120 χ^2/NDF : 3612.8/50

Out: 0.434 ± 0.120 χ^2/NDF : 4263.1/56

All: 0.427 ± 0.085 χ^2/NDF : 7875.9/107

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.739 ± 0.619 χ^2/NDF : 1279.0/27

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -69.184 ± 0.555 χ^2/NDF : 3426.0/31

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

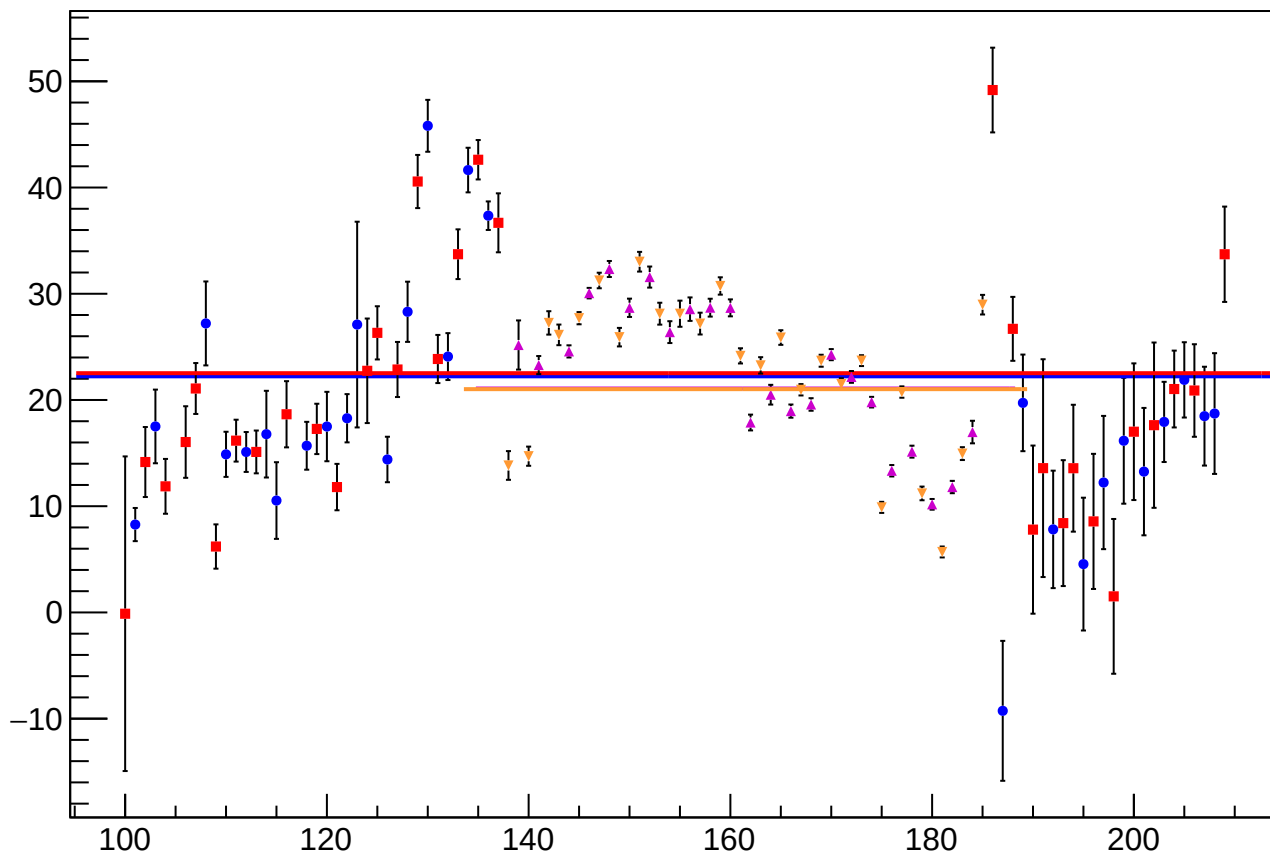
Right: -64.085 ± 0.413 χ^2/NDF : 4894.5/59

In: -47.716 ± 0.151 χ^2/NDF : 17072.8/50

Out: -49.534 ± 0.149 χ^2/NDF : 21727.3/56

All: -48.635 ± 0.106 χ^2/NDF : 38873.8/107

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.227 $\pm$ 0.525 χ^2 /NDF: 506.0/27

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.523 $\pm$ 0.530 χ^2 /NDF: 445.9/31

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

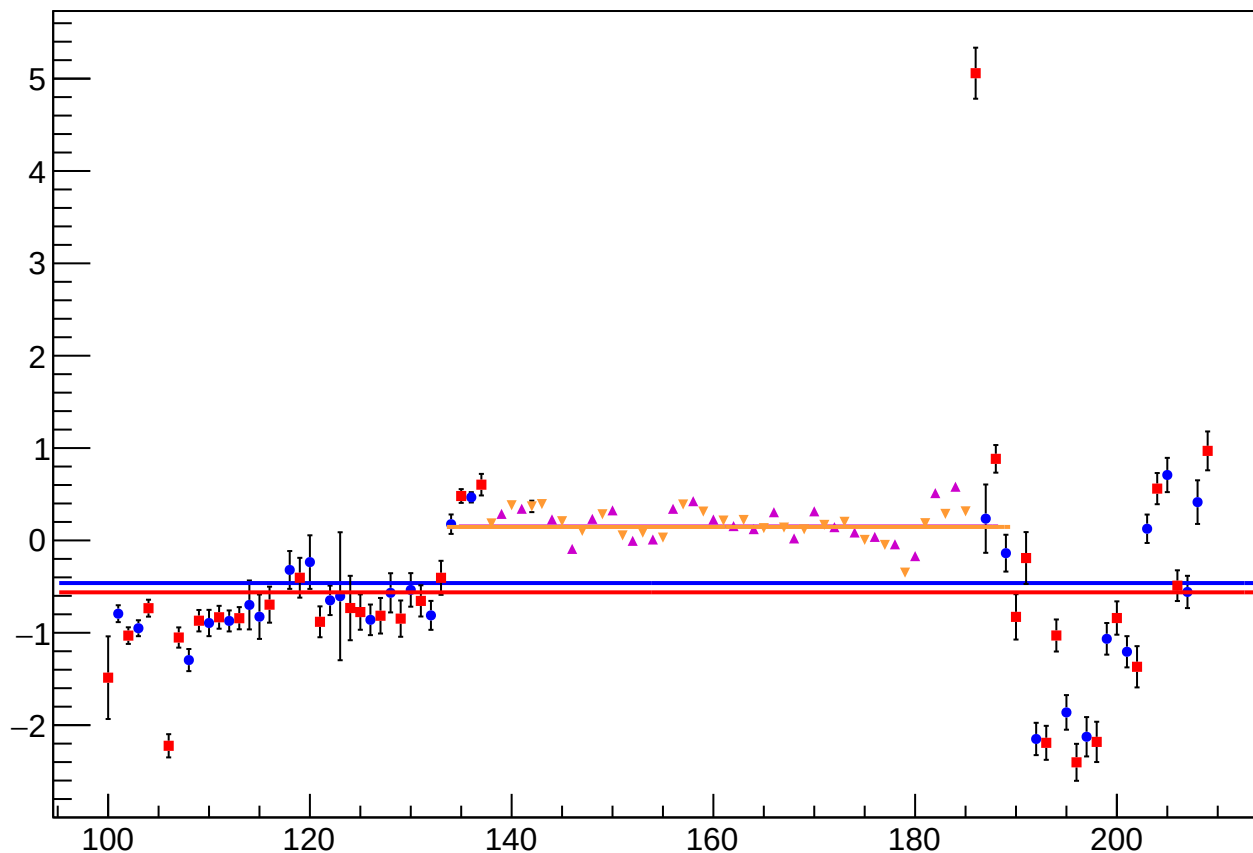
Right: 22.373 $\pm$ 0.373 χ^2 /NDF: 952.1/59

In: 21.155 $\pm$ 0.135 χ^2 /NDF:2683.7/50

Out: 21.116 $\pm$ 0.134 χ^2 /NDF:3252.7/56

All: 21.135 $\pm$ 0.095 χ^2 /NDF: 5936.4/107

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.462 ± 0.027 χ^2/NDF : 762.1/27

Left Out: 0.146 ± 0.006 χ^2/NDF : 610.2/24

Right Out: -0.562 ± 0.026 χ^2/NDF : 1401.3/31

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

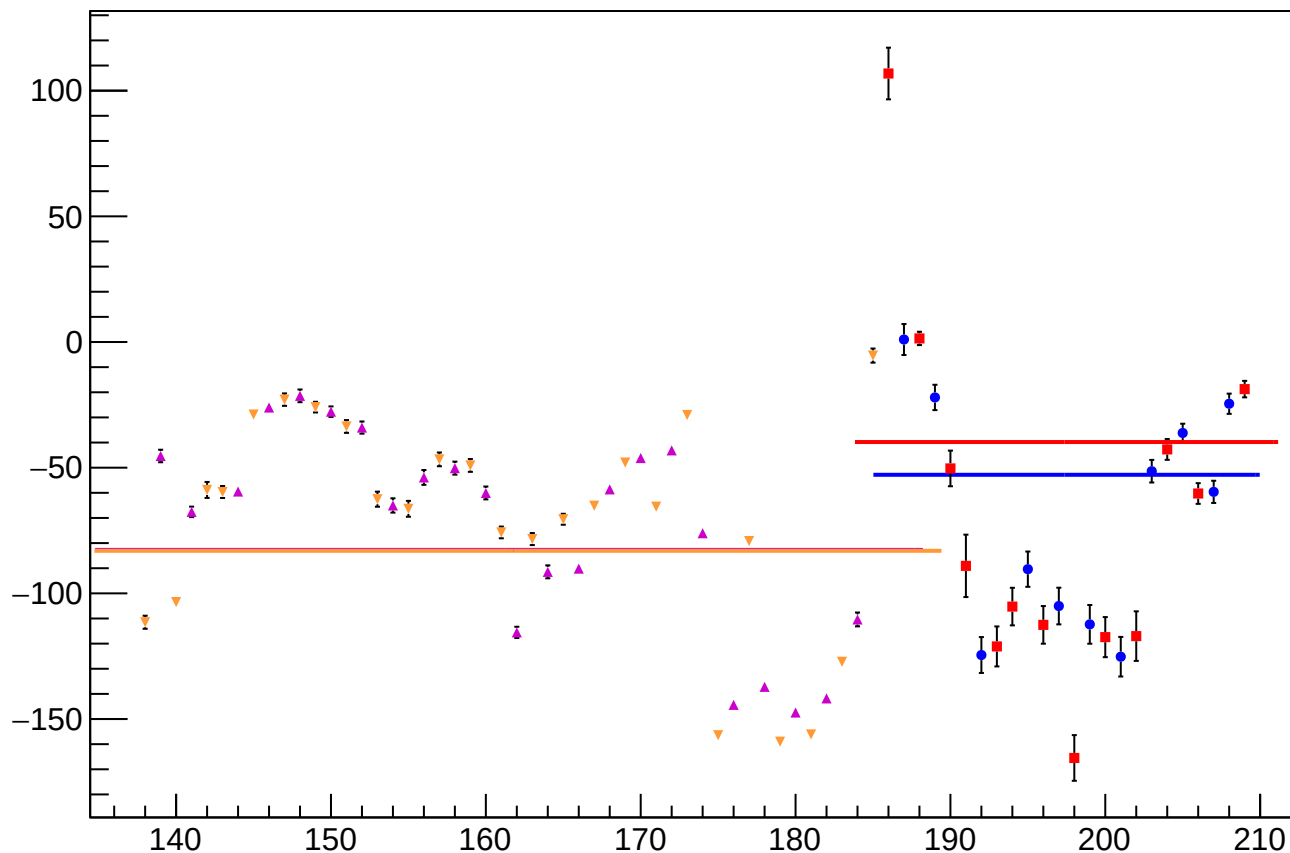
Right: -0.512 ± 0.019 χ^2/NDF : 2170.5/59

In: 0.118 ± 0.006 χ^2/NDF : 2131.0/50

Out: 0.108 ± 0.006 χ^2/NDF : 2691.4/56

All: 0.113 ± 0.004 χ^2/NDF : 4823.7/107

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -52.827 ± 1.594 $\chi^2/\text{NDF}: 510.7/10$

Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$

Right Out: -39.791 ± 1.447 $\chi^2/\text{NDF}: 1151.9/12$

Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$

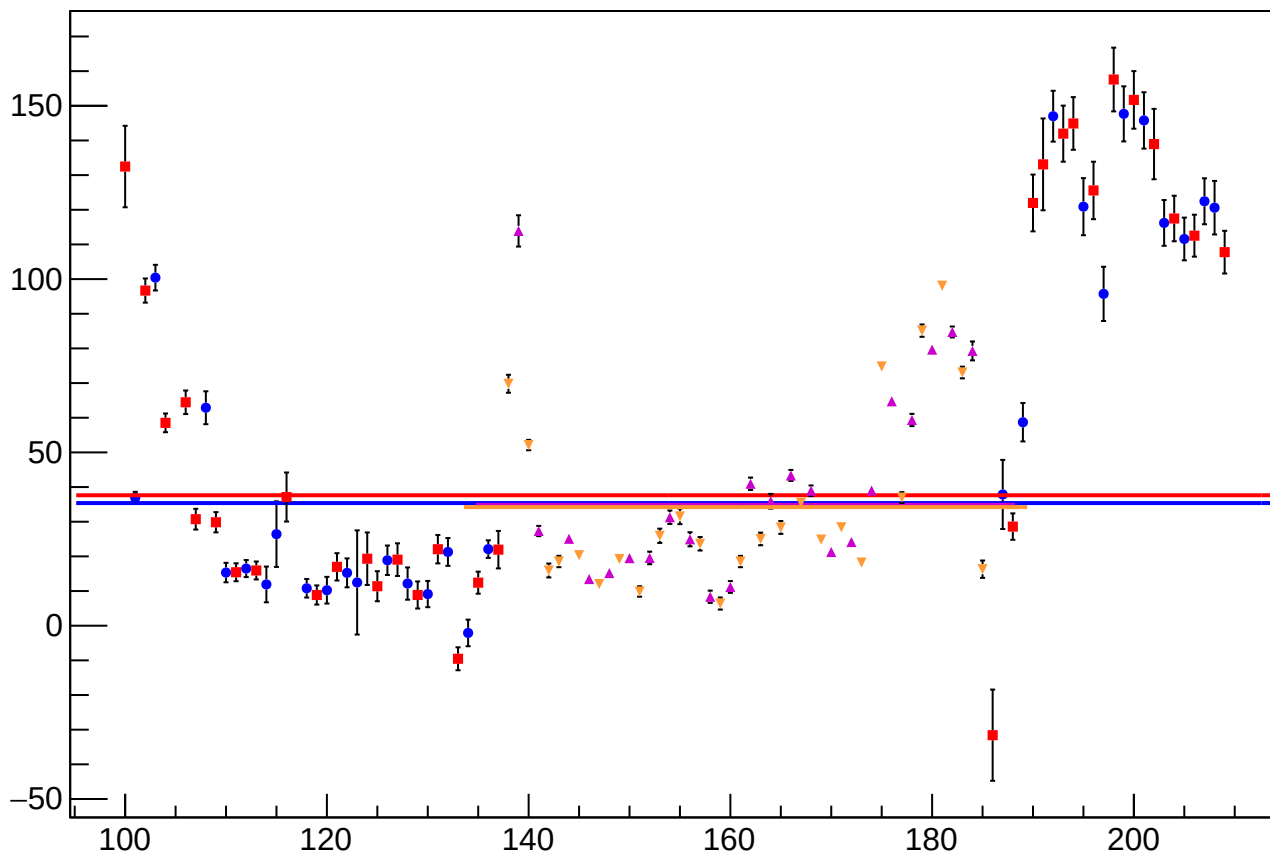
Right: -45.681 ± 1.071 $\chi^2/\text{NDF}: 1699.2/23$

In: -80.813 ± 0.402 $\chi^2/\text{NDF}: 11681.2/33$

Out: -79.905 ± 0.391 $\chi^2/\text{NDF}: 15798.2/37$

All: -80.347 ± 0.280 $\chi^2/\text{NDF}: 27482.0/71$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.381 $\pm$ 0.757 χ^2 /NDF: 2247.2/27

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF:6192.6/24

Right Out: 37.633 $\pm$ 0.750 χ^2 /NDF: 2726.2/31

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

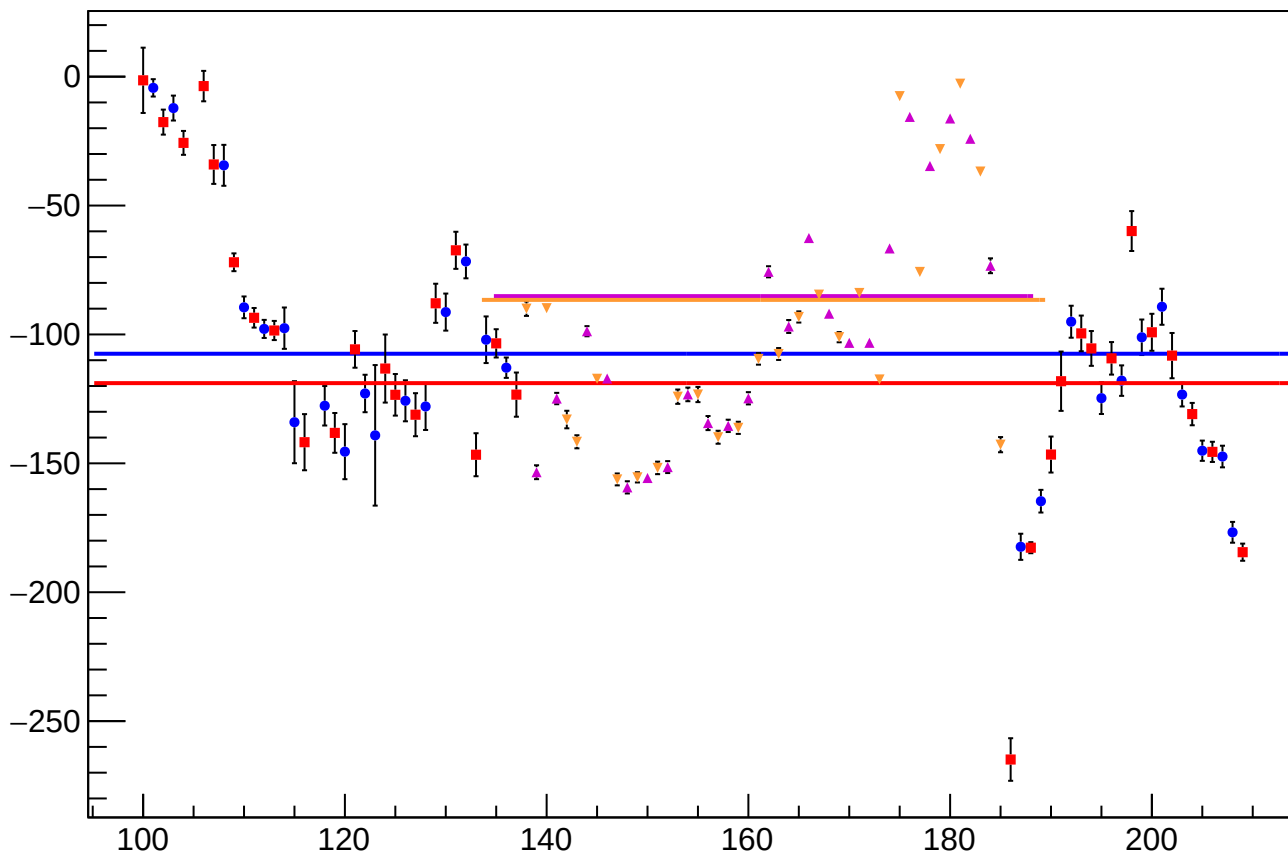
Right: 36.517 $\pm$ 0.533 χ^2 /NDF: 4977.9/59

In: 34.951 $\pm$ 0.302 χ^2 /NDF:6963.7/50

Out: 34.745 $\pm$ 0.295 χ^2 /NDF:8936.3/56

All: 34.845 $\pm$ 0.211 χ^2 /NDF: 15900.3/107

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -107.485 ± 1.031 χ^2/NDF : 2412.0/27

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -118.885 ± 0.940 χ^2/NDF : 3535.7/31

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

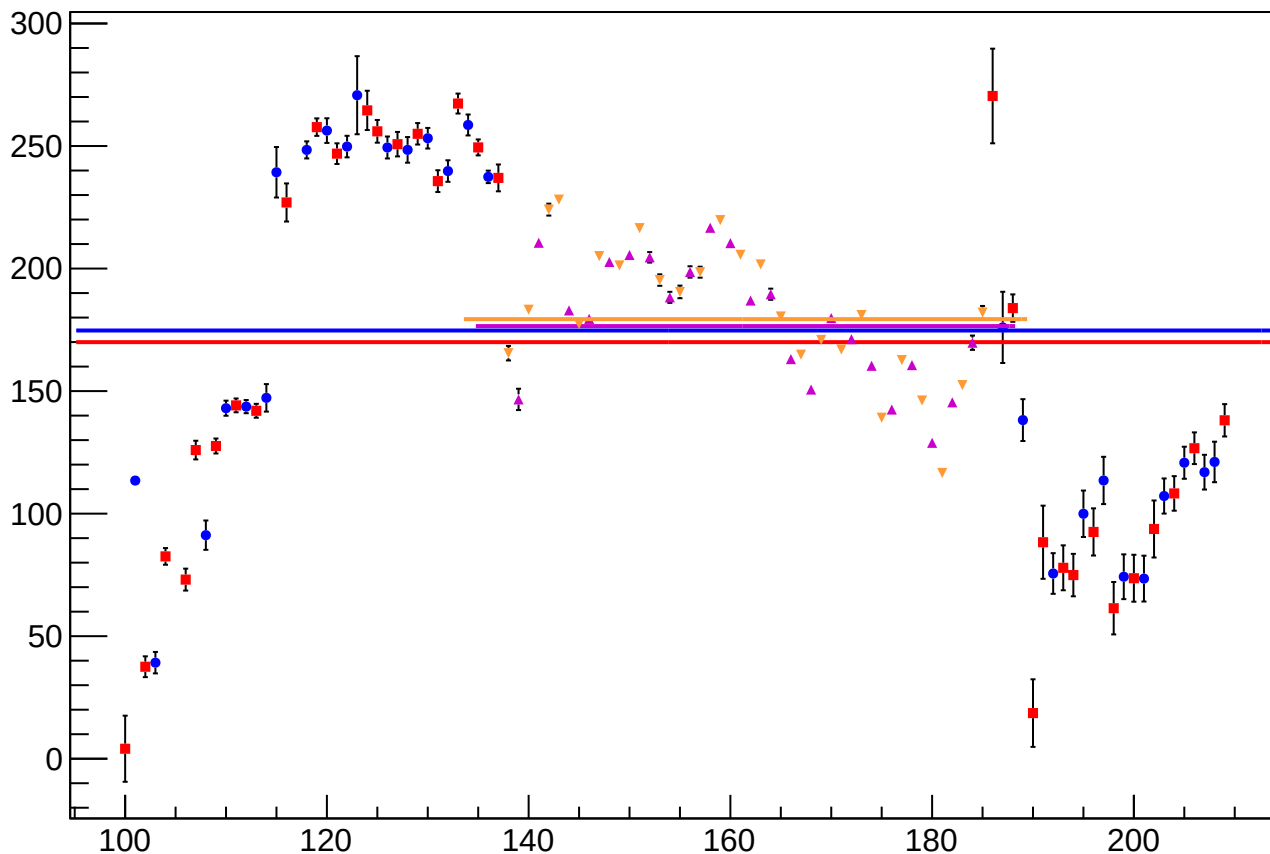
Right: -113.712 ± 0.695 χ^2/NDF : 6014.4/59

In: -88.248 ± 0.385 χ^2/NDF : 15657.4/50

Out: -91.722 ± 0.375 χ^2/NDF : 19043.8/56

All: -90.033 ± 0.268 χ^2/NDF : 34743.0/107

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 174.726 $\pm$ 0.865 χ^2/NDF : 6175.4/27

Left Out: 179.359 $\pm$ 0.362 χ^2/NDF :5982.2/24

Right Out: 169.974 $\pm$ 0.863 χ^2/NDF : 7271.5/31

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

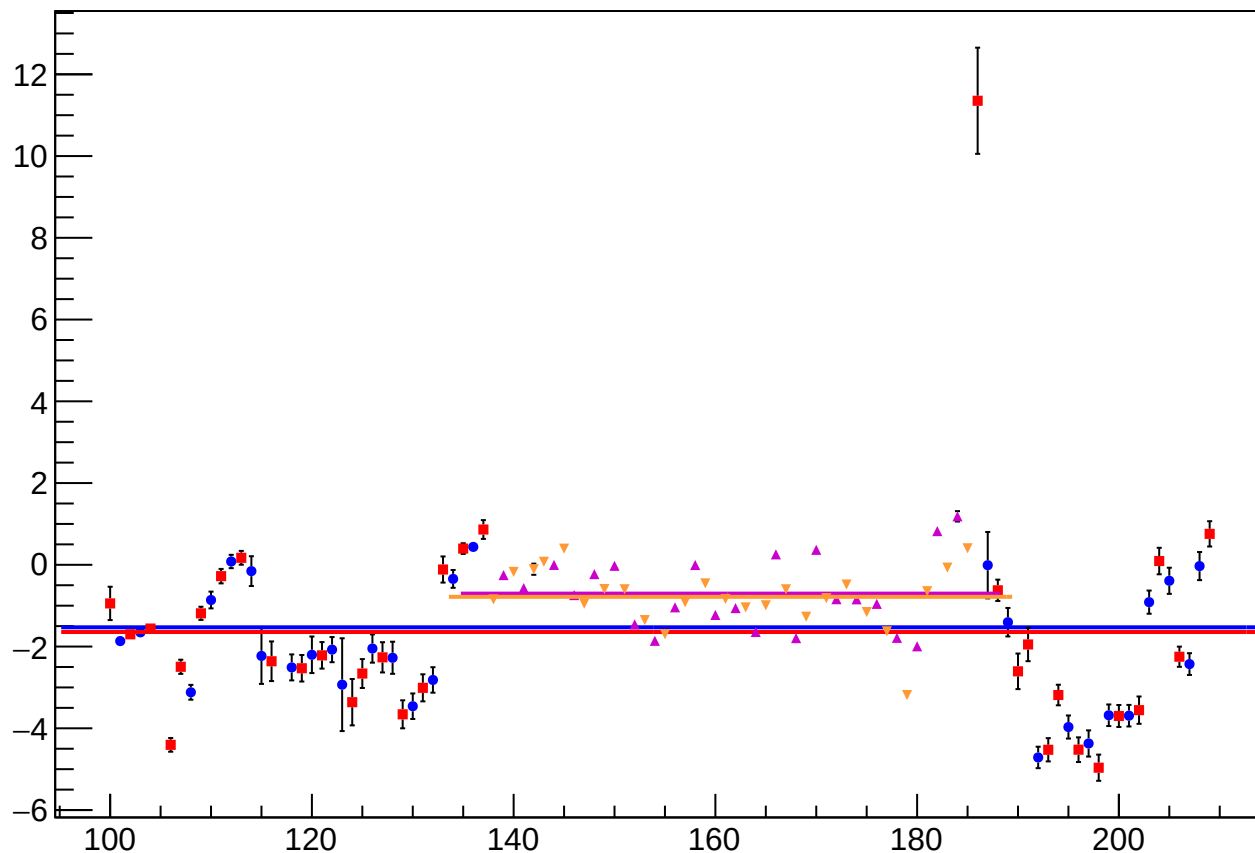
Right: 172.344 $\pm$ 0.611 χ^2/NDF : 13462.0/59

In: 176.251 $\pm$ 0.341 χ^2/NDF :10605.0/50

Out: 177.955 $\pm$ 0.334 χ^2/NDF :13354.3/56

All: 177.121 $\pm$ 0.238 χ^2/NDF : 23972.1/107

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.529 ± 0.043 χ^2/NDF : 1154.2/27

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.644 ± 0.040 χ^2/NDF : 1596.2/31

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

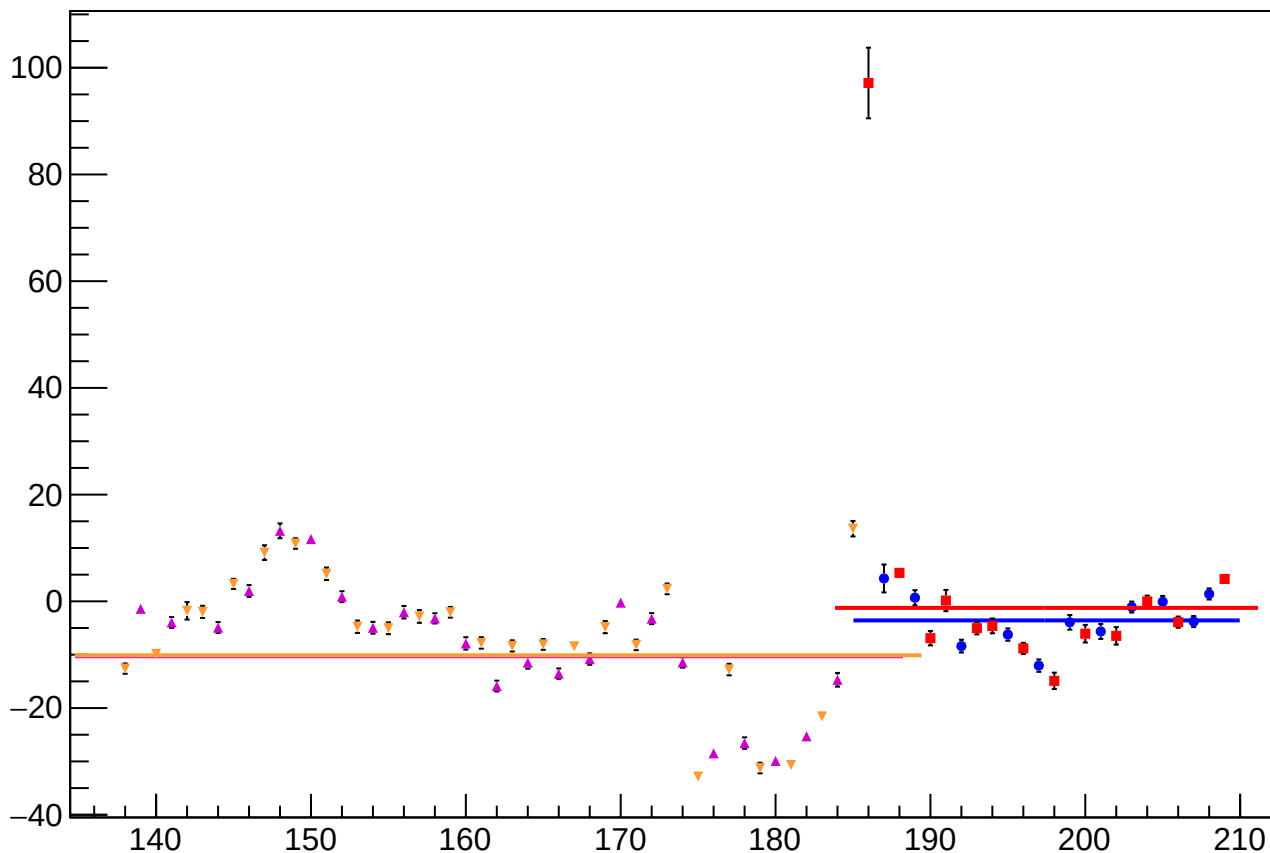
Right: -1.590 ± 0.029 χ^2/NDF : 2754.3/59

In: -0.817 ± 0.016 χ^2/NDF : 3884.8/50

Out: -0.907 ± 0.015 χ^2/NDF : 3754.8/56

All: -0.863 ± 0.011 χ^2/NDF : 7656.6/107

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.576 ± 0.365 $\chi^2/\text{NDF}: 133.5/10$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: -1.223 ± 0.322 $\chi^2/\text{NDF}: 557.8/12$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

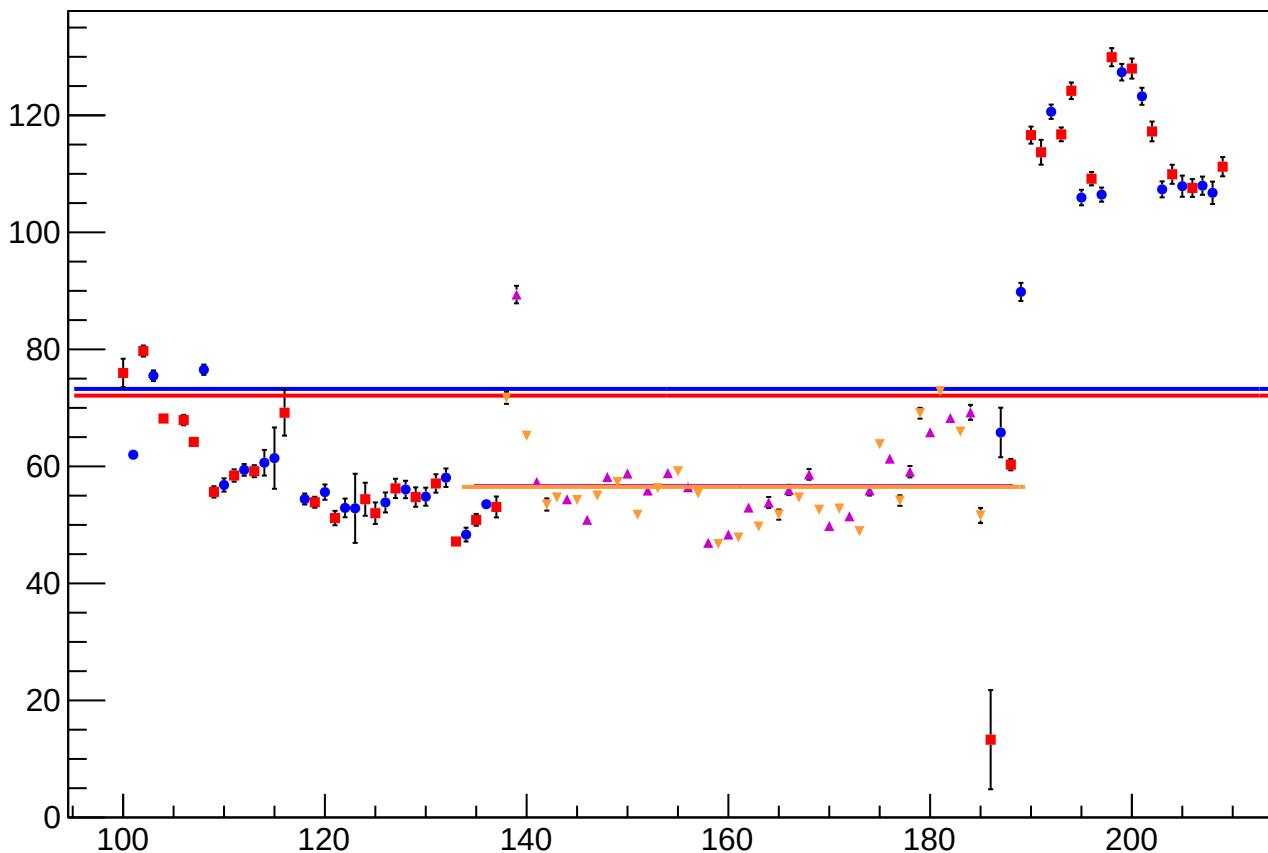
Right: -2.251 ± 0.242 $\chi^2/\text{NDF}: 714.7/23$

In: -8.678 ± 0.179 $\chi^2/\text{NDF}: 3841.1/33$

Out: -7.614 ± 0.171 $\chi^2/\text{NDF}: 5244.8/37$

All: -8.120 ± 0.124 $\chi^2/\text{NDF}: 9104.4/71$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 73.242+/-0.228 χ^2/NDF : 10618.4/27

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 72.095+/-0.212 χ^2/NDF : 14081.9/31

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

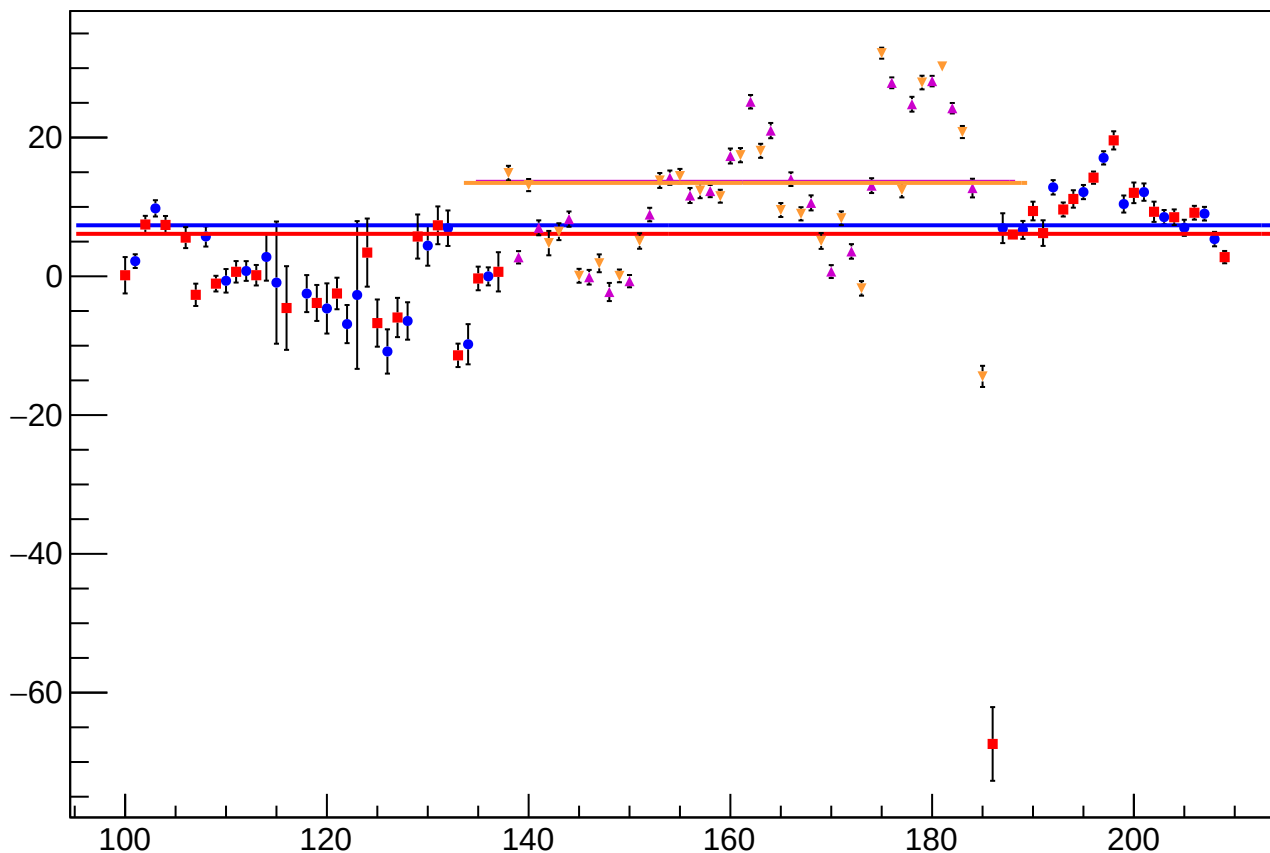
Right: 72.628+/-0.155 χ^2/NDF : 24713.9/59

In: 62.363+/-0.134 χ^2/NDF :15714.7/50

Out: 62.112+/-0.127 χ^2/NDF :19520.5/56

All: 62.231+/-0.092 χ^2/NDF : 35237.0/107

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.352 ± 0.272 χ^2/NDF : 440.1/27

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.120 ± 0.238 χ^2/NDF : 761.2/31

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

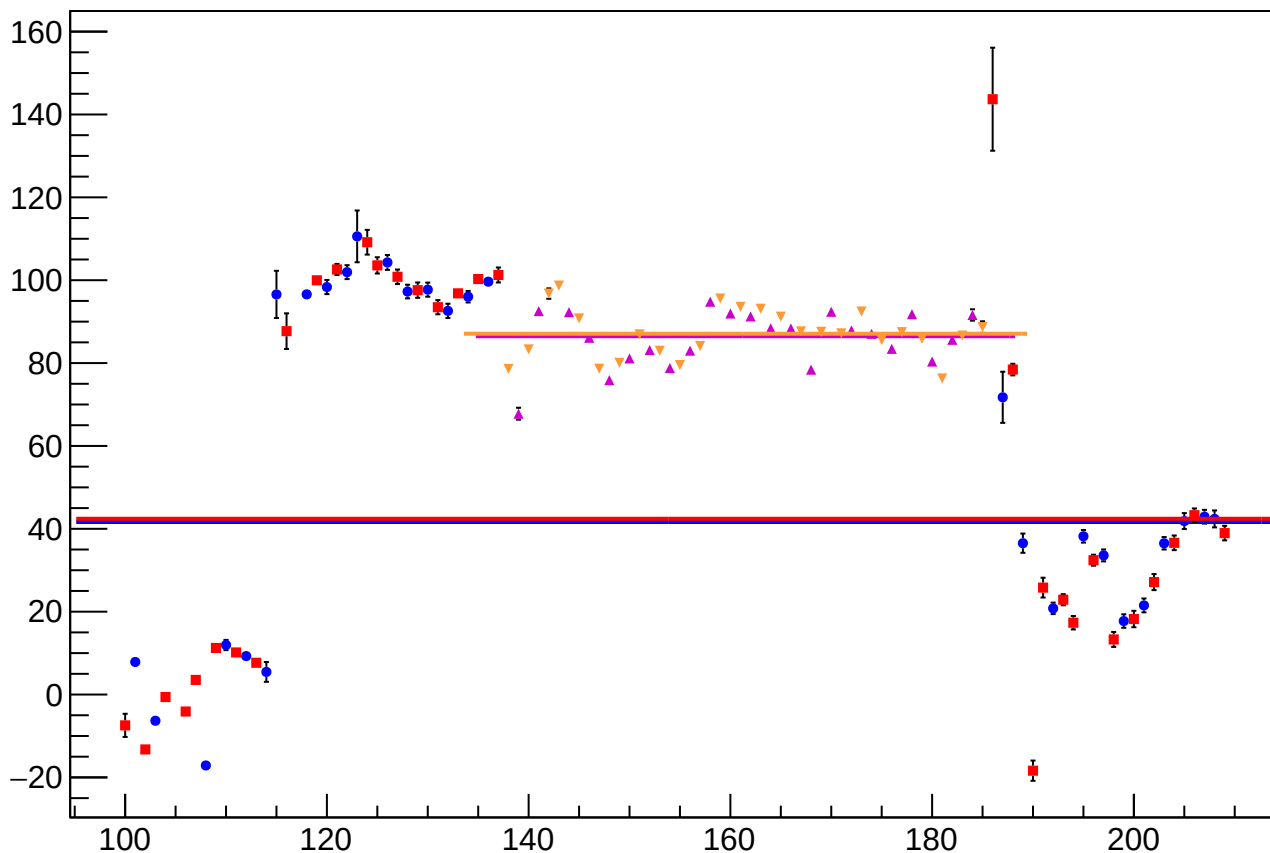
Right: 6.655 ± 0.179 χ^2/NDF : 1212.9/59

In: 11.361 ± 0.163 χ^2/NDF : 3094.1/50

Out: 10.403 ± 0.154 χ^2/NDF : 4050.8/56

All: 10.853 ± 0.112 χ^2/NDF : 7163.1/107

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.644+/-0.263 χ^2/NDF : 25471.3/27

Left Out: 87.087+/-0.179 χ^2/NDF :1085.8/24

Right Out: 42.425+/-0.249 χ^2/NDF : 30761.0/31

Left In: 86.482+/-0.185 χ^2/NDF :1003.2/22

Left: 86.794+/-0.129 χ^2/NDF : 2094.5/47

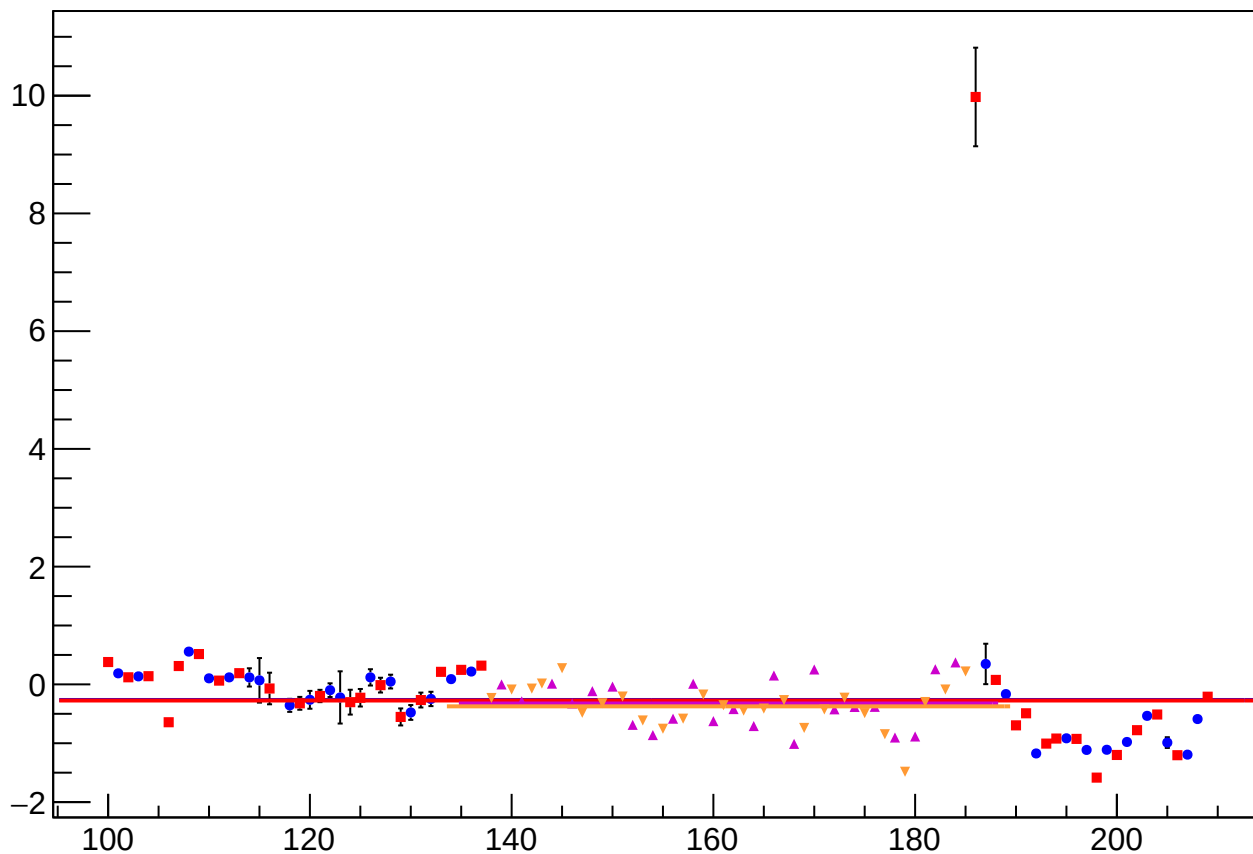
Right: 42.056+/-0.181 χ^2/NDF : 56237.0/59

In: 71.693+/-0.151 χ^2/NDF :45930.5/50

Out: 71.856+/-0.145 χ^2/NDF :53057.9/56

All: 71.778+/-0.105 χ^2/NDF : 98989.0/107

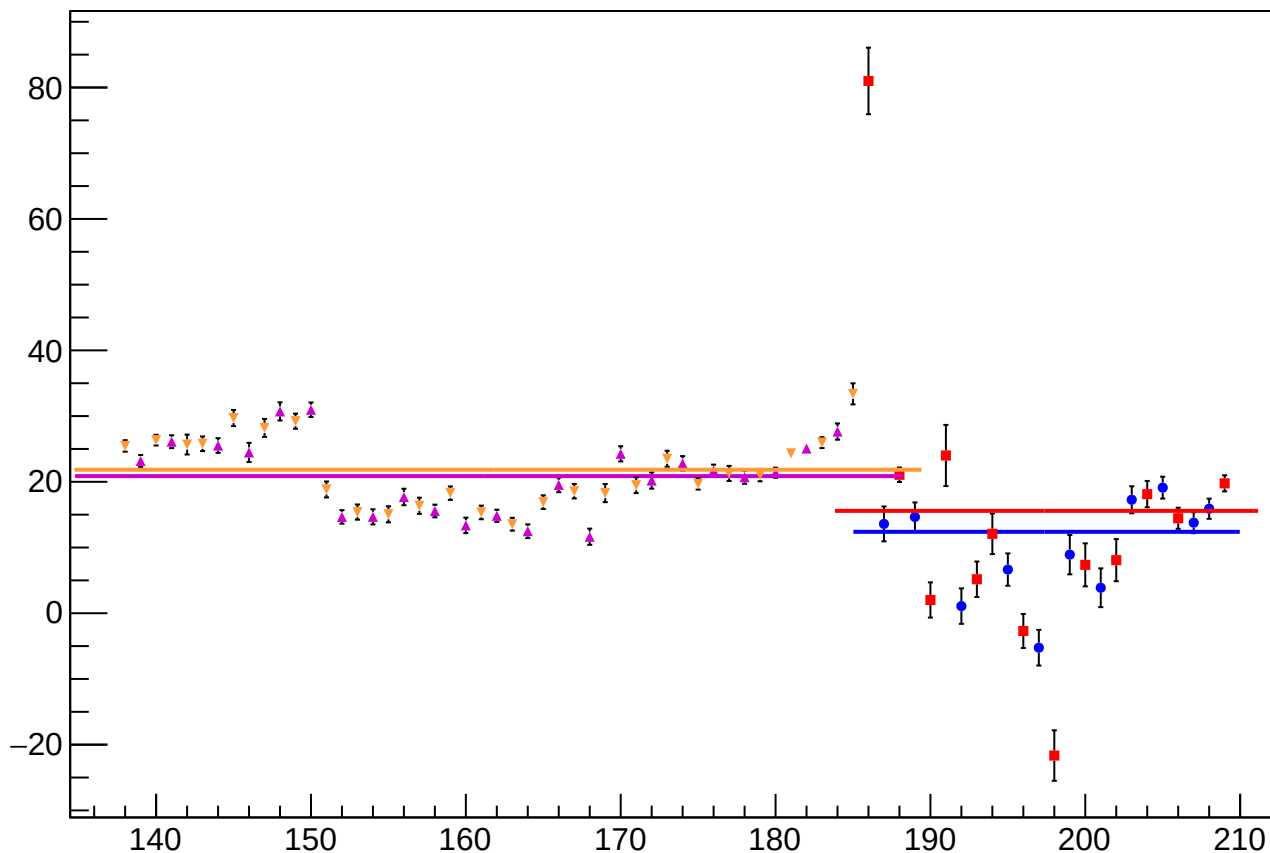
reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.265 ± 0.011 χ^2/NDF : 3193.3/27
 Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24
 Right Out: -0.274 ± 0.010 χ^2/NDF : 3557.8/31
 Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47
 Right: -0.270 ± 0.007 χ^2/NDF : 6751.5/59
 In: -0.303 ± 0.007 χ^2/NDF : 5496.9/50
 Out: -0.334 ± 0.006 χ^2/NDF : 5285.2/56
 All: -0.319 ± 0.005 χ^2/NDF : 10793.7/107

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.391 ± 0.642 χ^2/NDF : 104.1/10

Left Out: 21.836 ± 0.210 χ^2/NDF : 524.3/24

Right Out: 15.577 ± 0.578 χ^2/NDF : 406.0/12

Left In: 20.866 ± 0.217 χ^2/NDF : 576.9/22

Left: 21.366 ± 0.151 χ^2/NDF : 1111.6/47

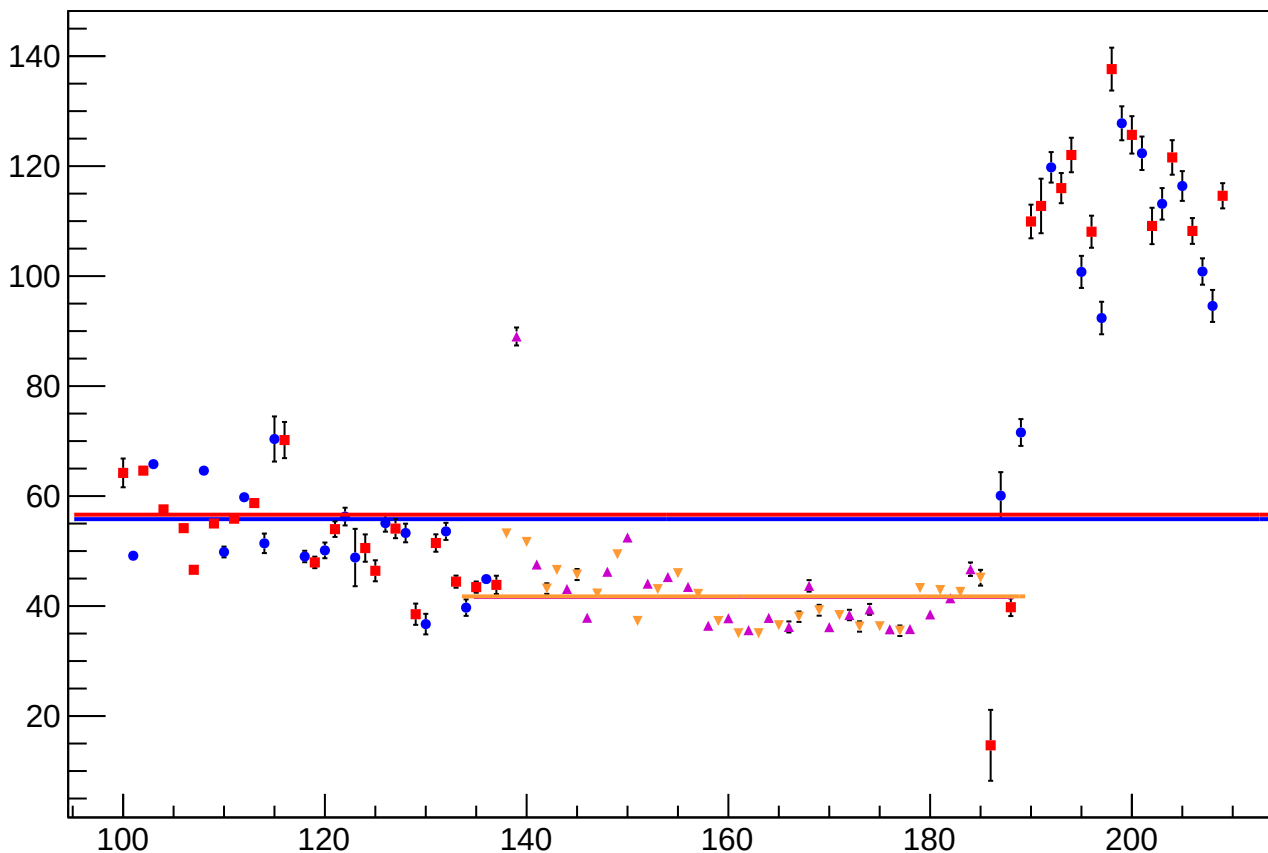
Right: 14.151 ± 0.429 χ^2/NDF : 523.7/23

In: 19.999 ± 0.205 χ^2/NDF : 837.4/33

Out: 21.107 ± 0.197 χ^2/NDF : 1034.0/37

All: 20.575 ± 0.142 χ^2/NDF : 1886.6/71

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 55.804 $\pm$ 0.205 χ^2 /NDF: 4794.6/27

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 56.616 $\pm$ 0.218 χ^2 /NDF: 5535.4/31

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

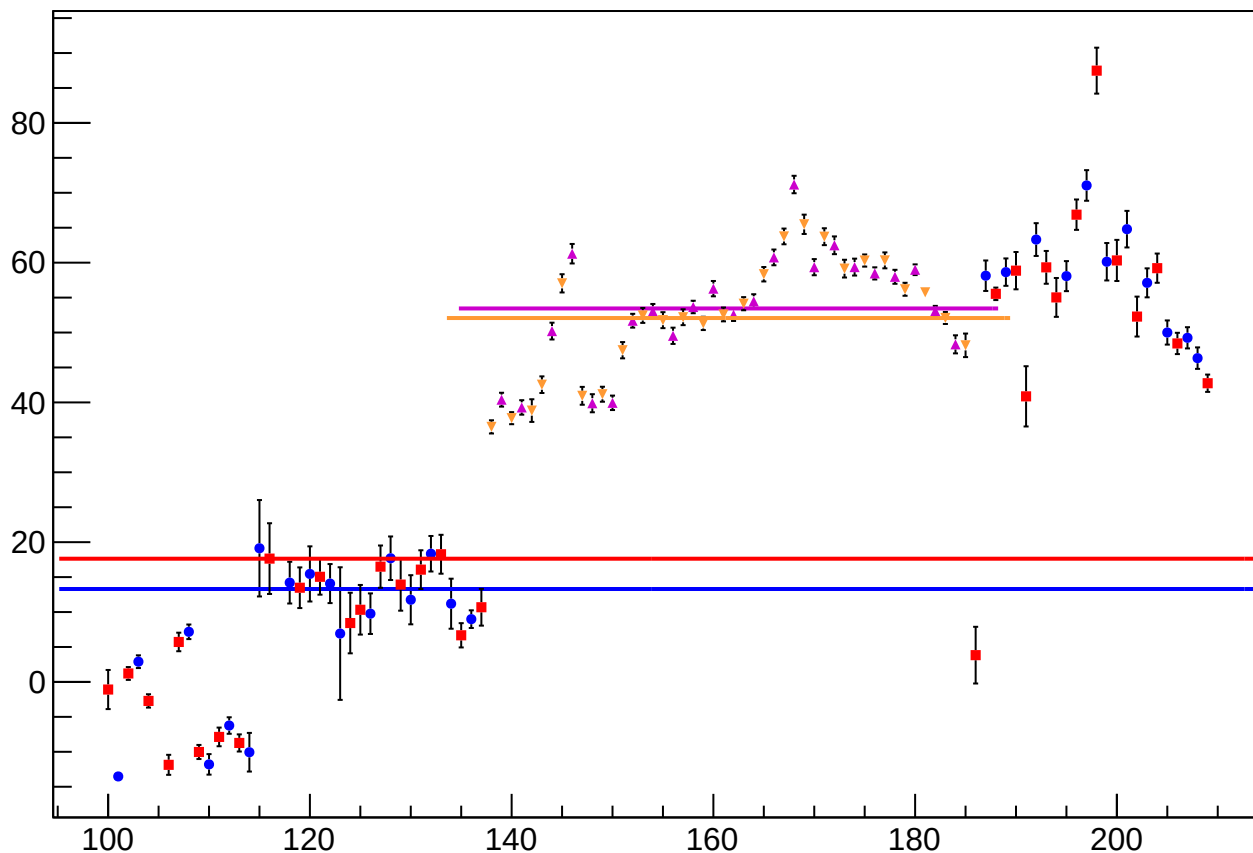
Right: 56.185 $\pm$ 0.149 χ^2 /NDF: 10337.4/59

In: 47.565 $\pm$ 0.133 χ^2 /NDF:9182.5/50

Out: 47.188 $\pm$ 0.132 χ^2 /NDF:9502.2/56

All: 47.375 $\pm$ 0.093 χ^2 /NDF: 18688.7/107

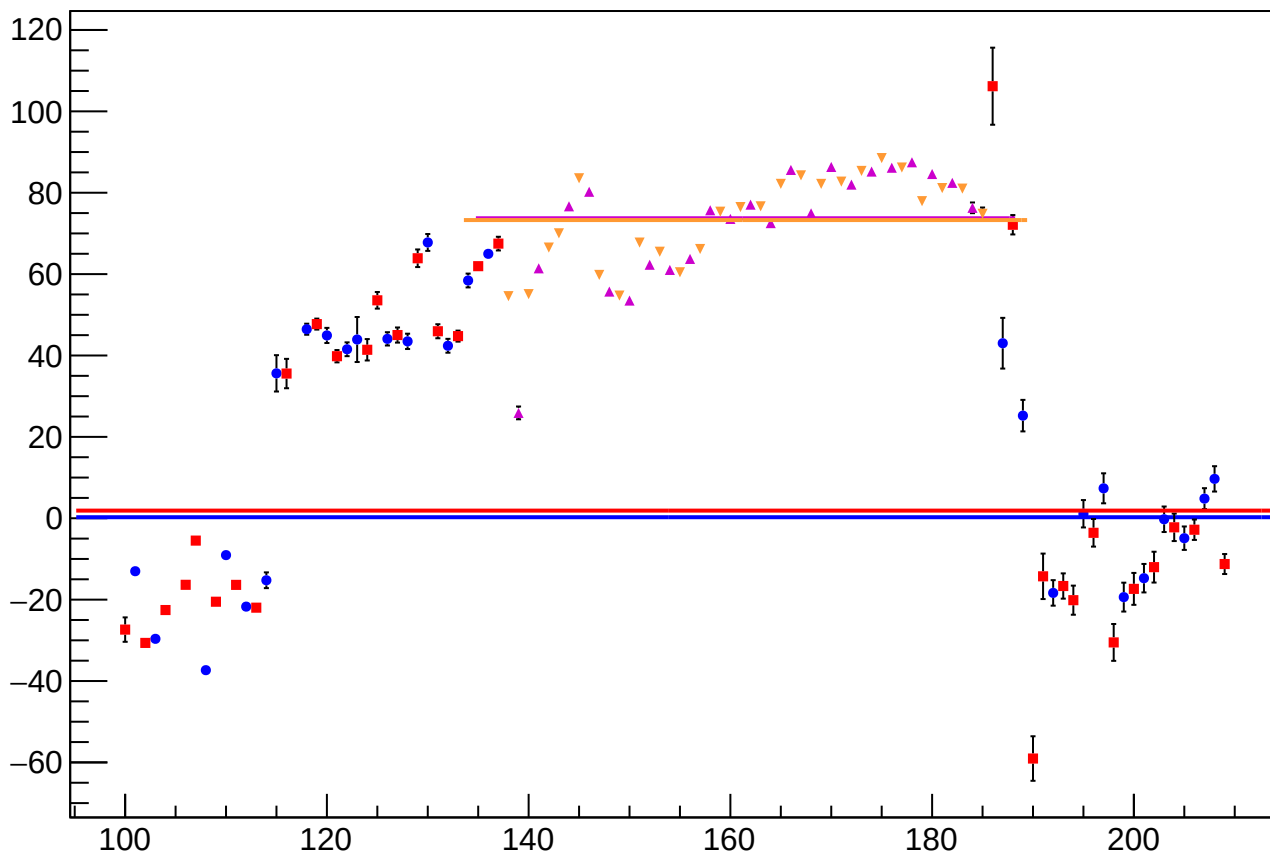
reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.298 $\pm$ 0.311 χ^2 /NDF: 7839.3/27
 Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24
 Right Out: 17.634 $\pm$ 0.306 χ^2 /NDF: 8074.6/31
 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: 15.506 $\pm$ 0.218 χ^2 /NDF: 16012.5/59
 In: 40.463 $\pm$ 0.177 χ^2 /NDF:20249.2/50
 Out: 41.033 $\pm$ 0.173 χ^2 /NDF:18149.6/56
 All: 40.754 $\pm$ 0.124 χ^2 /NDF: 38404.1/107

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.255+/-0.240 χ^2/NDF : 18412.1/27

Left Out: 73.284+/-0.187 χ^2/NDF : 3144.2/24

Right Out: 1.882+/-0.257 χ^2/NDF : 16734.2/31

Left In: 73.730+/-0.194 χ^2/NDF : 3775.8/22

Left: 73.498+/-0.135 χ^2/NDF : 6922.7/47

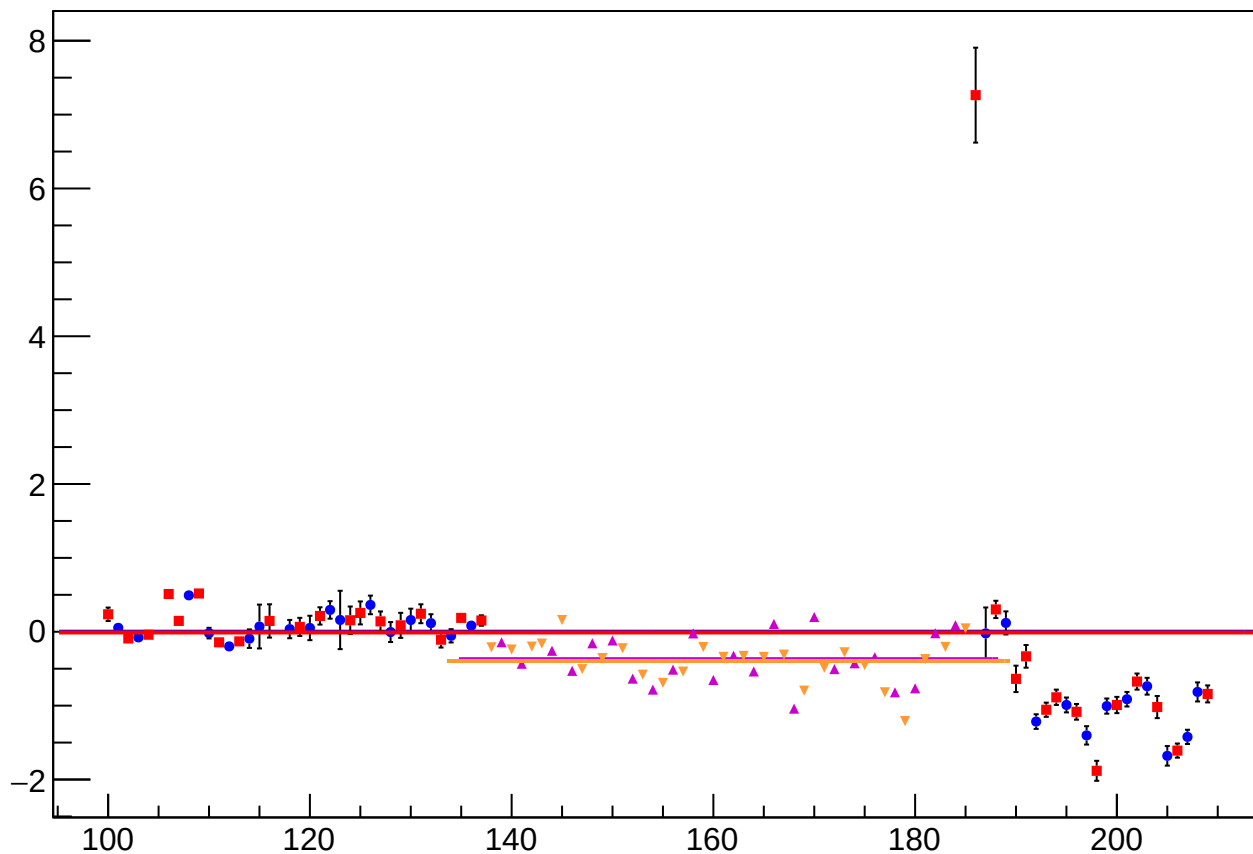
Right: 1.015+/-0.175 χ^2/NDF : 35167.7/59

In: 44.695+/-0.151 χ^2/NDF : 78676.2/50

Out: 48.564+/-0.151 χ^2/NDF : 70436.9/56

All: 46.630+/-0.107 χ^2/NDF : 149440.9/107

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 ± 0.011 $\chi^2/\text{NDF}: 1507.4/27$

Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$

Right Out: -0.010 ± 0.010 $\chi^2/\text{NDF}: 1596.7/31$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

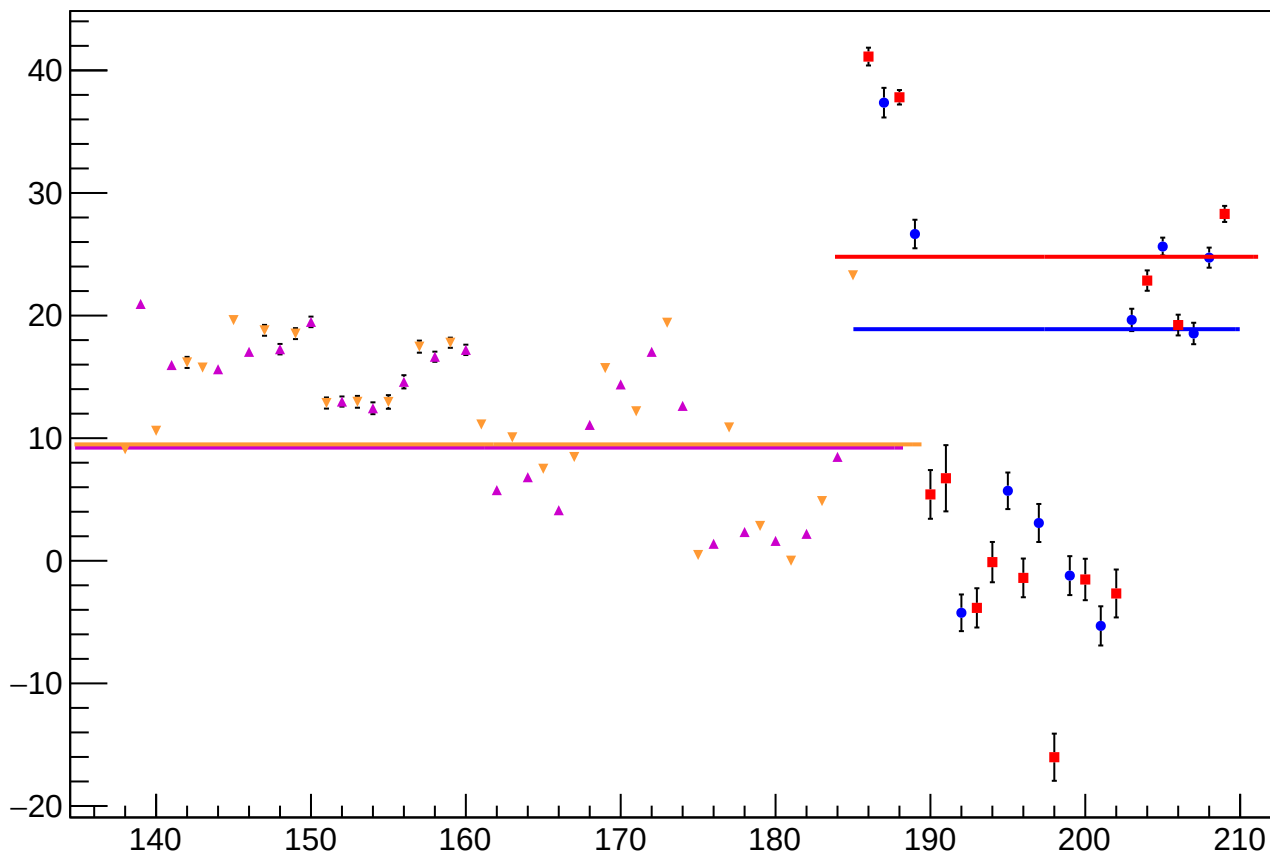
Right: -0.004 ± 0.007 $\chi^2/\text{NDF}: 3104.6/59$

In: -0.220 ± 0.007 $\chi^2/\text{NDF}: 3560.4/50$

Out: -0.241 ± 0.007 $\chi^2/\text{NDF}: 3362.3/56$

All: -0.231 ± 0.005 $\chi^2/\text{NDF}: 6927.9/107$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 18.891 ± 0.326 $\chi^2/\text{NDF}: 1226.5/10$

Left Out: 9.495 ± 0.061 $\chi^2/\text{NDF}: 12609.1/24$

Right Out: 24.797 ± 0.284 $\chi^2/\text{NDF}: 2921.7/12$

Left In: 9.231 ± 0.063 $\chi^2/\text{NDF}: 10736.2/22$

Left: 9.367 ± 0.044 $\chi^2/\text{NDF}: 23354.3/47$

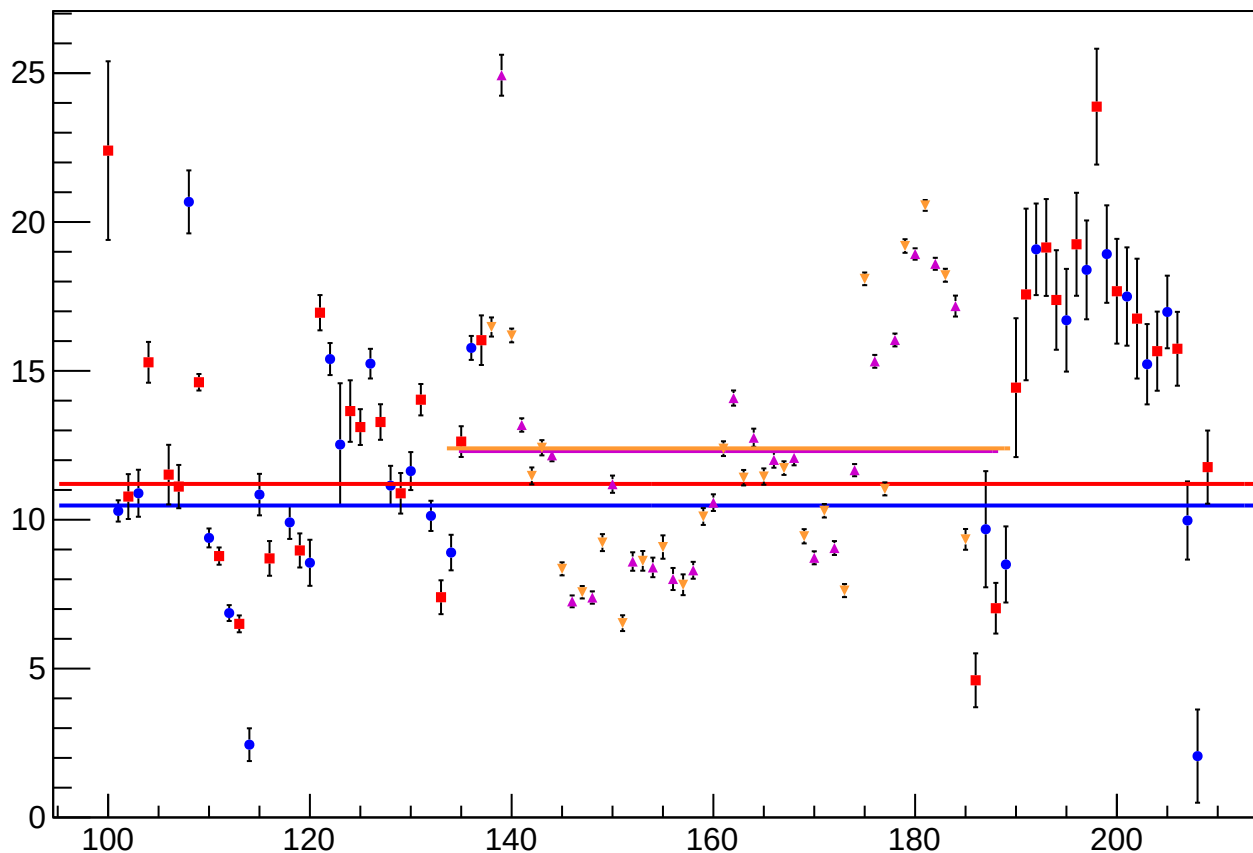
Right: 22.243 ± 0.214 $\chi^2/\text{NDF}: 4334.7/23$

In: 9.579 ± 0.062 $\chi^2/\text{NDF}: 12809.8/33$

Out: 10.173 ± 0.060 $\chi^2/\text{NDF}: 18298.2/37$

All: 9.886 ± 0.043 $\chi^2/\text{NDF}: 31155.5/71$

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.478 $\pm$ 0.116 χ^2 /NDF: 1054.0/27

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.203 $\pm$ 0.112 χ^2 /NDF: 1049.0/31

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

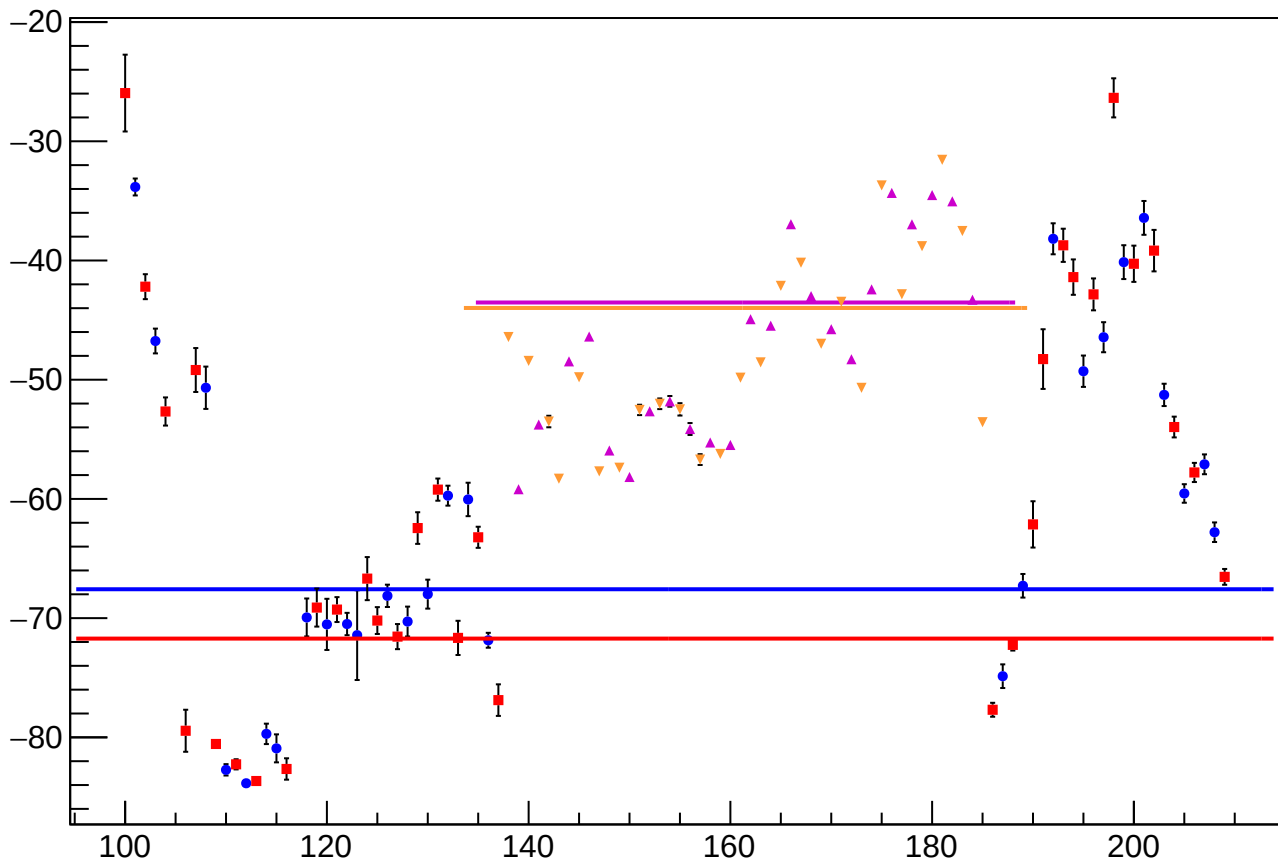
Right: 10.853 $\pm$ 0.080 χ^2 /NDF: 2123.4/59

In: 12.007 $\pm$ 0.047 χ^2 /NDF: 6865.0/50

Out: 12.199 $\pm$ 0.045 χ^2 /NDF: 8687.5/56

All: 12.106 $\pm$ 0.033 χ^2 /NDF: 15561.2/107

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.577 ± 0.167 χ^2/NDF : 8604.4/27

Left Out: -43.982 ± 0.062 χ^2/NDF : 17736.8/24

Right Out: -71.716 ± 0.147 χ^2/NDF : 8006.3/31

Left In: -43.523 ± 0.063 χ^2/NDF : 15267.1/22

Left: -43.757 ± 0.044 χ^2/NDF : 33030.8/47

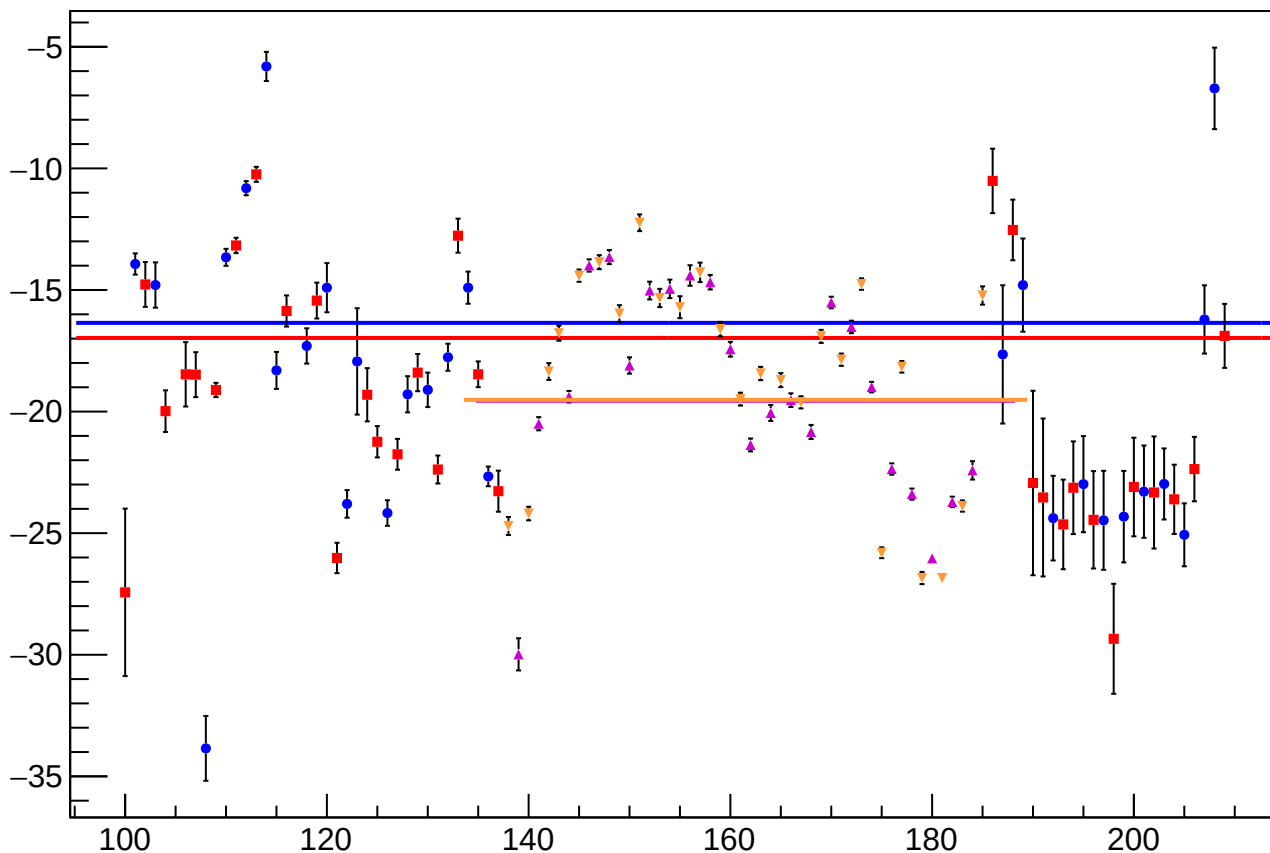
Right: -69.900 ± 0.110 χ^2/NDF : 16956.4/59

In: -46.553 ± 0.059 χ^2/NDF : 42049.6/50

Out: -48.142 ± 0.057 χ^2/NDF : 55822.7/56

All: -47.376 ± 0.041 χ^2/NDF : 98245.5/107

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.352 ± 0.129 $\chi^2/\text{NDF}: 1804.2/27$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -16.972 ± 0.124 $\chi^2/\text{NDF}: 1383.1/31$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

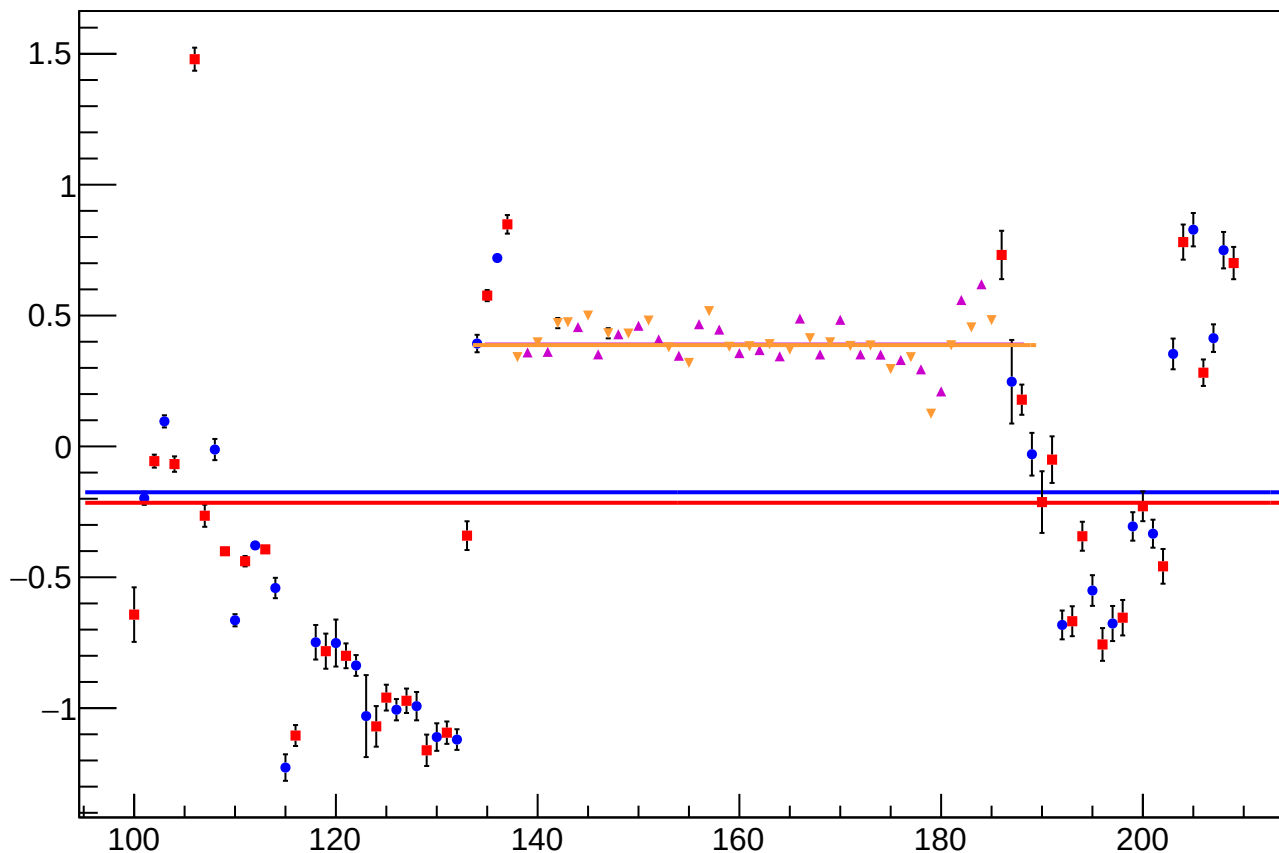
Right: -16.674 ± 0.089 $\chi^2/\text{NDF}: 3199.4/59$

In: -19.024 ± 0.052 $\chi^2/\text{NDF}: 6632.3/50$

Out: -19.088 ± 0.051 $\chi^2/\text{NDF}: 8252.4/56$

All: -19.057 ± 0.036 $\chi^2/\text{NDF}: 14885.5/107$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.175 ± 0.007 χ^2/NDF : 7160.2/27

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.215 ± 0.007 χ^2/NDF : 7076.8/31

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

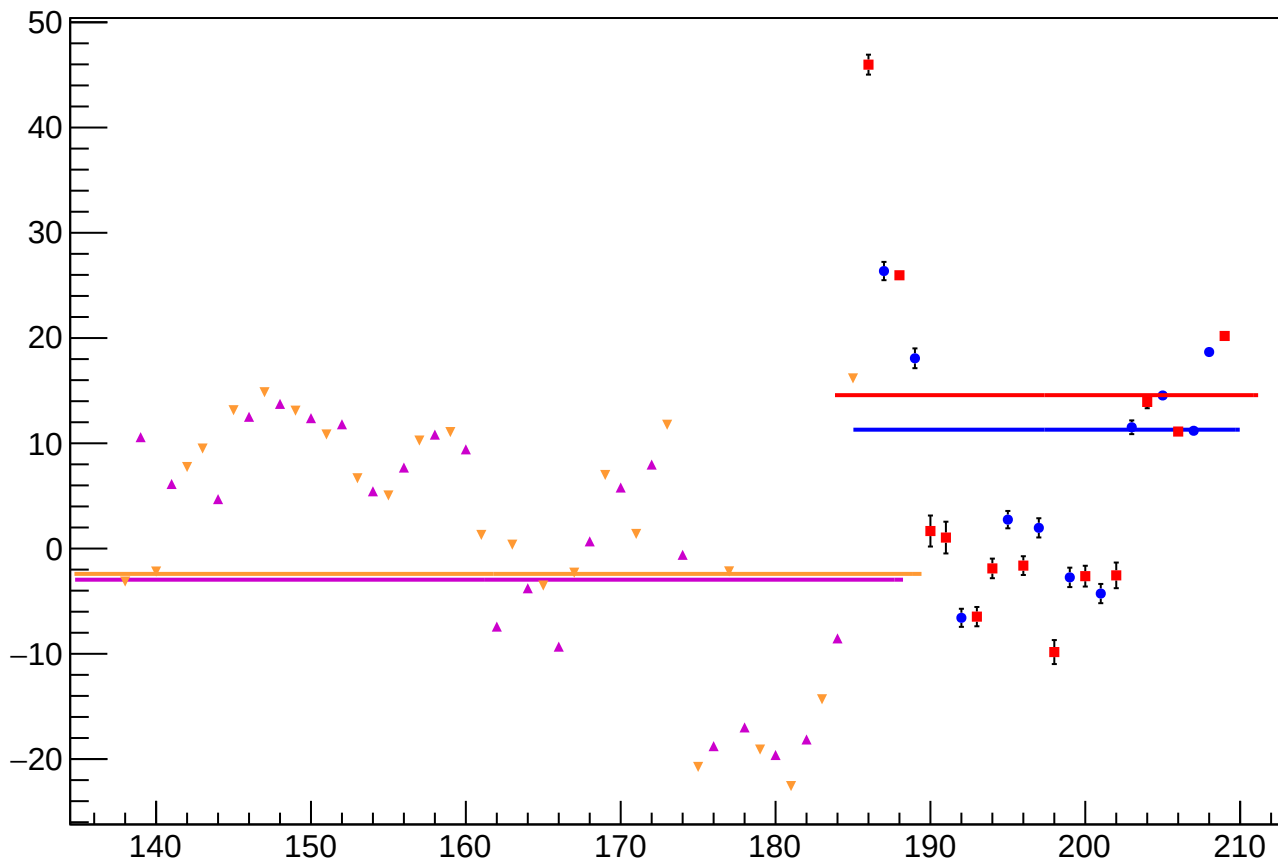
Right: -0.196 ± 0.005 χ^2/NDF : 14254.2/59

In: 0.320 ± 0.002 χ^2/NDF : 14100.6/50

Out: 0.310 ± 0.002 χ^2/NDF : 15192.2/56

All: 0.315 ± 0.002 χ^2/NDF : 29301.9/107

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.293 ± 0.195 $\chi^2/\text{NDF}: 1865.3/10$

Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$

Right Out: 14.574 ± 0.182 $\chi^2/\text{NDF}: 4425.3/12$

Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$

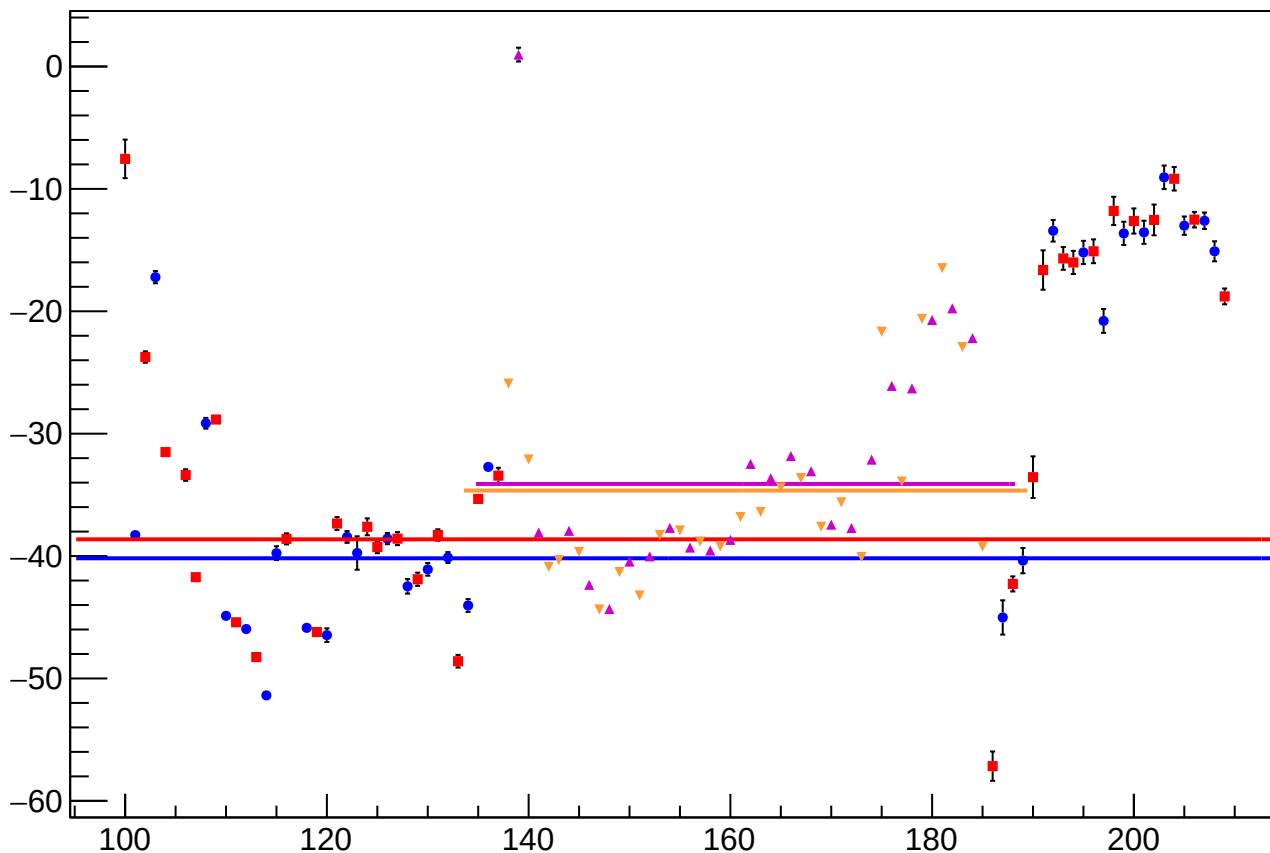
Right: 13.043 ± 0.133 $\chi^2/\text{NDF}: 6441.6/23$

In: -1.913 ± 0.053 $\chi^2/\text{NDF}: 52743.3/33$

Out: -1.094 ± 0.051 $\chi^2/\text{NDF}: 68796.8/37$

All: -1.487 ± 0.037 $\chi^2/\text{NDF}: 121665.2/71$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -40.182 ± 0.075 $\chi^2/\text{NDF}: 15762.2/27$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -38.632 ± 0.070 $\chi^2/\text{NDF}: 19124.9/31$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

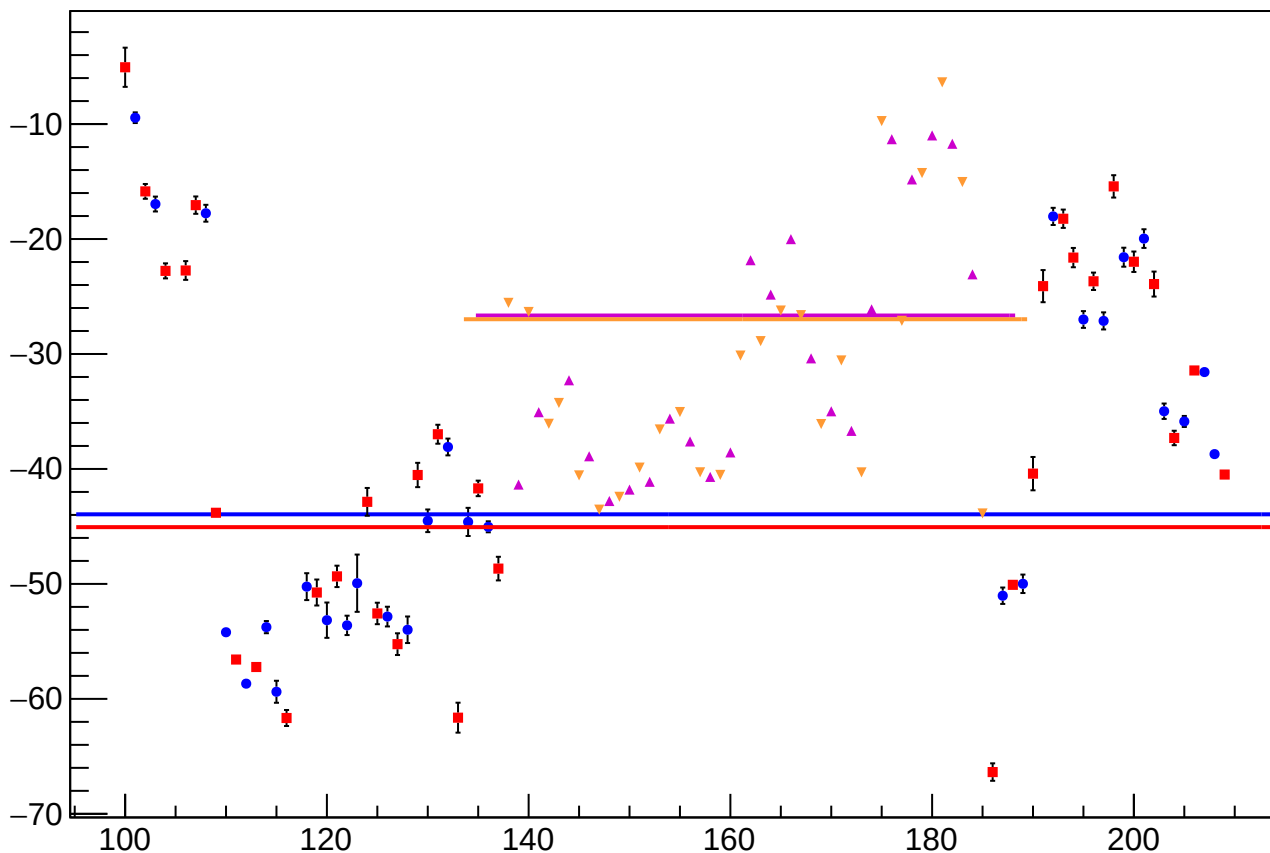
Right: -39.352 ± 0.051 $\chi^2/\text{NDF}: 35115.4/59$

In: -35.659 ± 0.038 $\chi^2/\text{NDF}: 49687.9/50$

Out: -35.694 ± 0.036 $\chi^2/\text{NDF}: 56192.4/56$

All: -35.677 ± 0.026 $\chi^2/\text{NDF}: 105880.7/107$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.947 ± 0.103 χ^2/NDF : 21608.2/27

Left Out: -26.978 ± 0.053 χ^2/NDF : 49361.1/24

Right Out: -45.062 ± 0.090 χ^2/NDF : 19877.2/31

Left In: -26.654 ± 0.055 χ^2/NDF : 42106.8/22

Left: -26.821 ± 0.038 χ^2/NDF : 91485.8/47

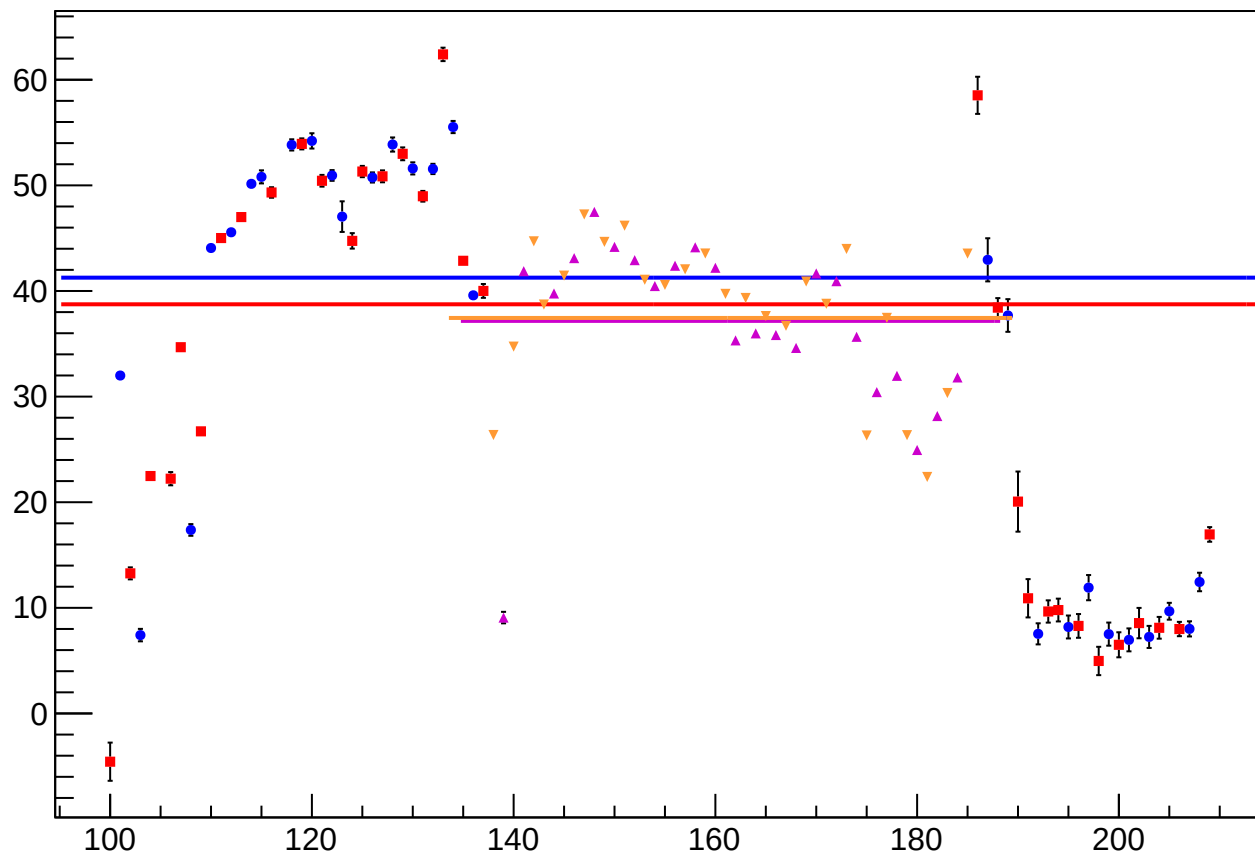
Right: -44.579 ± 0.068 χ^2/NDF : 41551.5/59

In: -30.466 ± 0.049 χ^2/NDF : 85560.7/50

Out: -31.632 ± 0.046 χ^2/NDF : 98993.2/56

All: -31.082 ± 0.033 χ^2/NDF : 184859.3/107

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.262 $\pm$ 0.084 χ^2 /NDF: 21851.6/27

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 38.740 $\pm$ 0.077 χ^2 /NDF: 26433.4/31

Left In: 37.169 $\pm$ 0.049 χ^2 /NDF:17236.9/22

Left: 37.314 $\pm$ 0.034 χ^2 /NDF: 38824.1/47

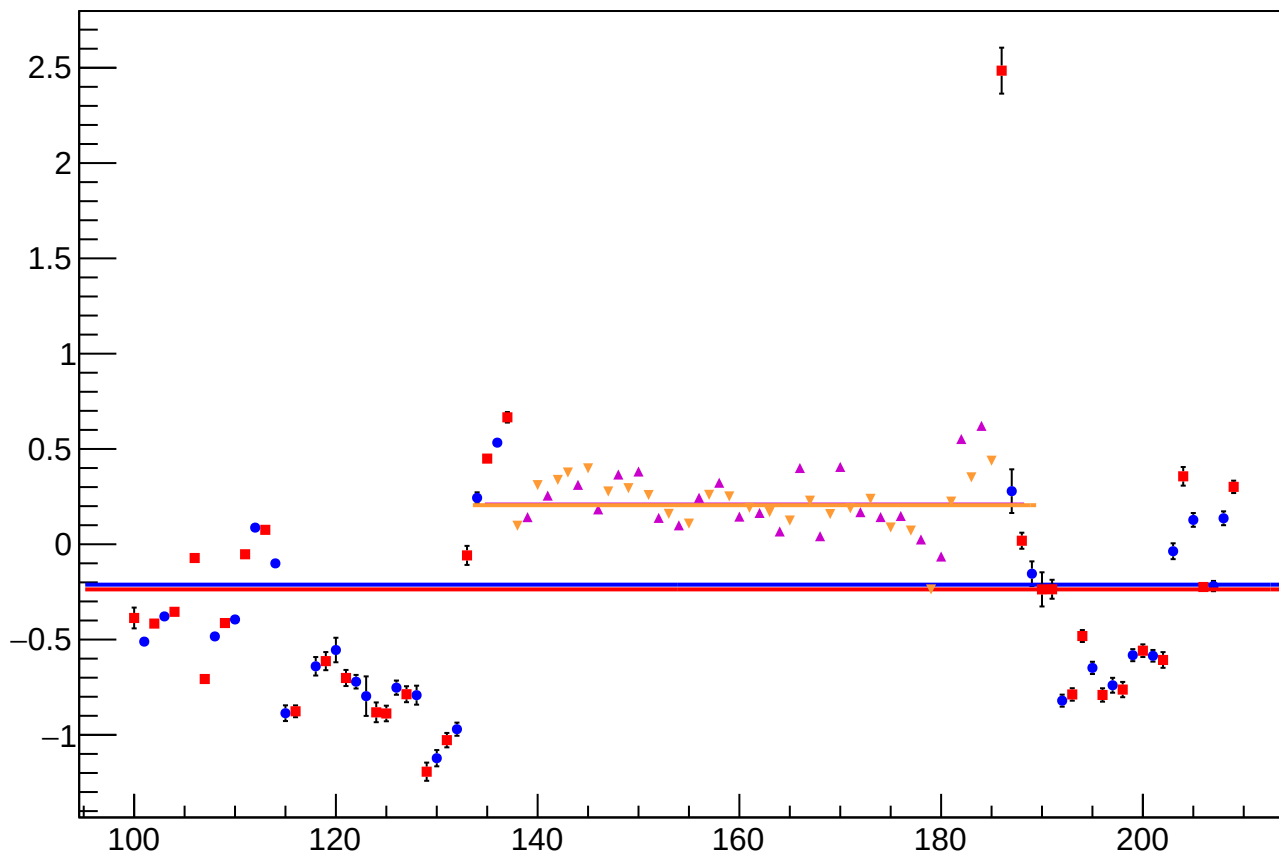
Right: 39.903 $\pm$ 0.057 χ^2 /NDF: 48774.2/59

In: 38.222 $\pm$ 0.042 χ^2 /NDF:40864.0/50

Out: 37.797 $\pm$ 0.040 χ^2 /NDF:48207.5/56

All: 37.998 $\pm$ 0.029 χ^2 /NDF: 89124.3/107

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.212 ± 0.004 χ^2/NDF : 8645.9/27

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.237 ± 0.004 χ^2/NDF : 9339.5/31

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

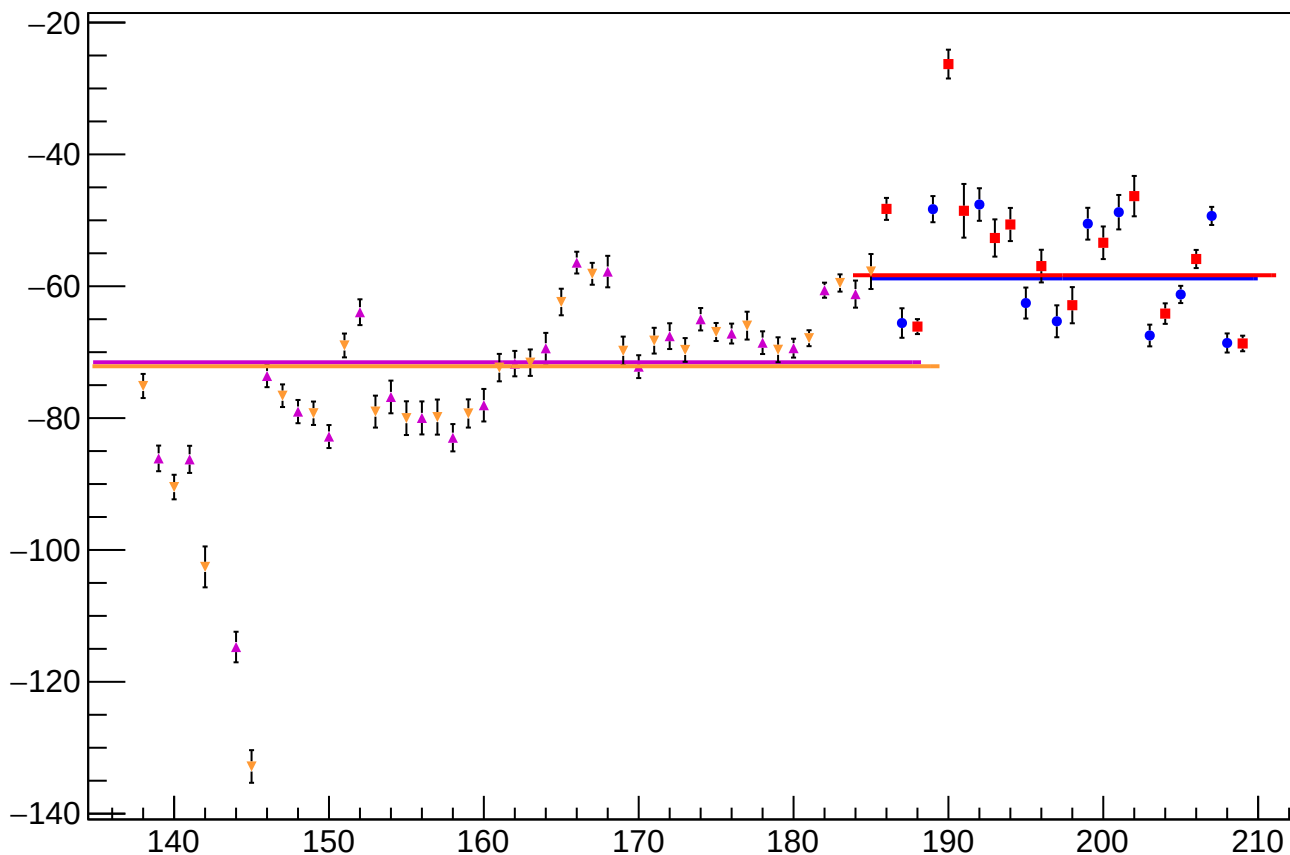
Right: -0.226 ± 0.003 χ^2/NDF : 18002.8/59

In: 0.122 ± 0.002 χ^2/NDF : 20914.5/50

Out: 0.104 ± 0.002 χ^2/NDF : 22626.9/56

All: 0.113 ± 0.001 χ^2/NDF : 43586.4/107

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -58.810 $\pm$ 0.555 χ^2 /NDF: 218.7/10

Left Out: -72.138 $\pm$ 0.383 χ^2 /NDF:1121.3/23

Right Out: -58.332 $\pm$ 0.506 χ^2 /NDF: 433.7/12

Left In: -71.534 $\pm$ 0.382 χ^2 /NDF:851.4/22

Left: -71.835 $\pm$ 0.270 χ^2 /NDF: 1974.0/46

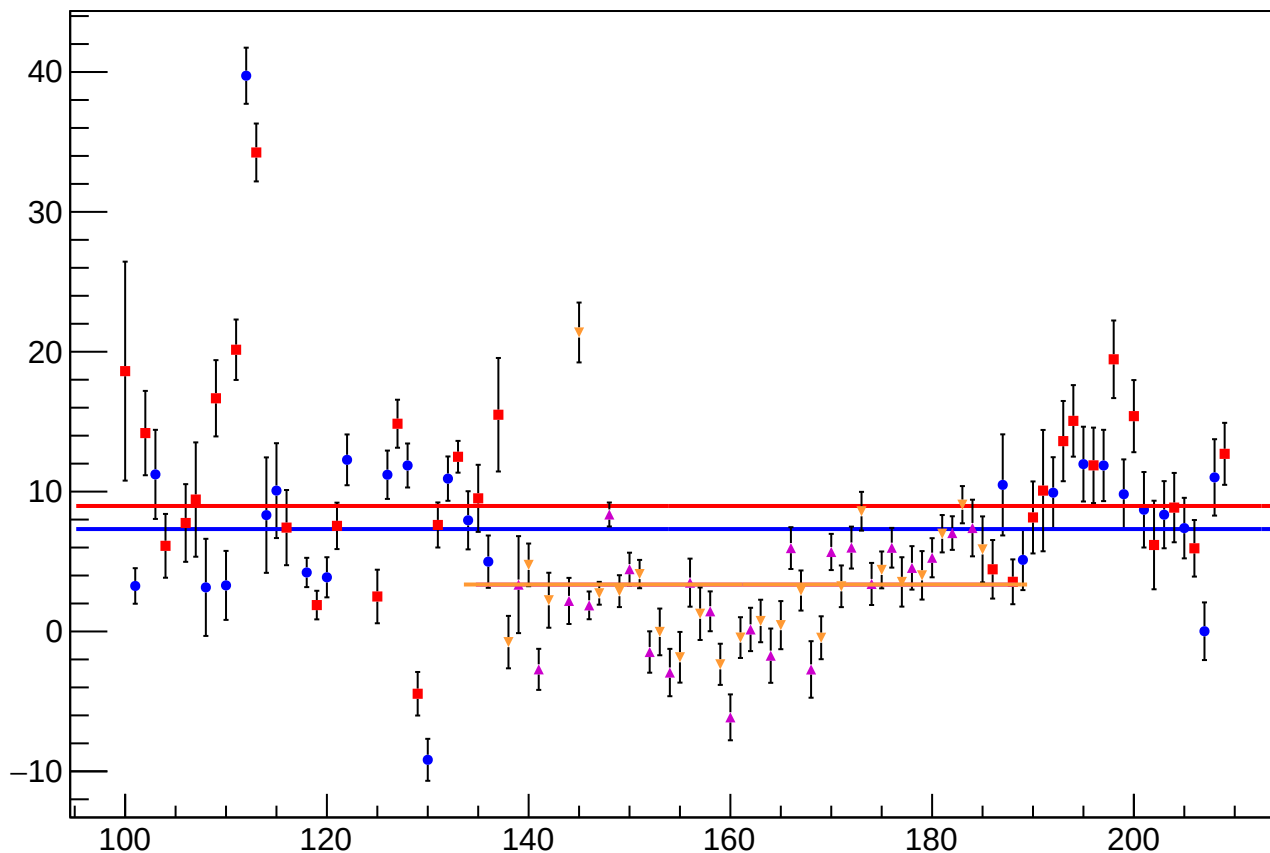
Right: -58.549 $\pm$ 0.374 χ^2 /NDF: 652.8/23

In: -67.445 $\pm$ 0.314 χ^2 /NDF:1427.3/33

Out: -67.107 $\pm$ 0.305 χ^2 /NDF:2028.9/36

All: -67.271 $\pm$ 0.219 χ^2 /NDF: 3456.7/70

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.322 ± 0.379 $\chi^2/\text{NDF}: 465.6/26$

Left Out: 3.357 ± 0.295 $\chi^2/\text{NDF}: 167.7/23$

Right Out: 8.972 ± 0.373 $\chi^2/\text{NDF}: 401.8/30$

Left In: 3.349 ± 0.298 $\chi^2/\text{NDF}: 163.5/22$

Left: 3.353 ± 0.210 $\chi^2/\text{NDF}: 331.2/46$

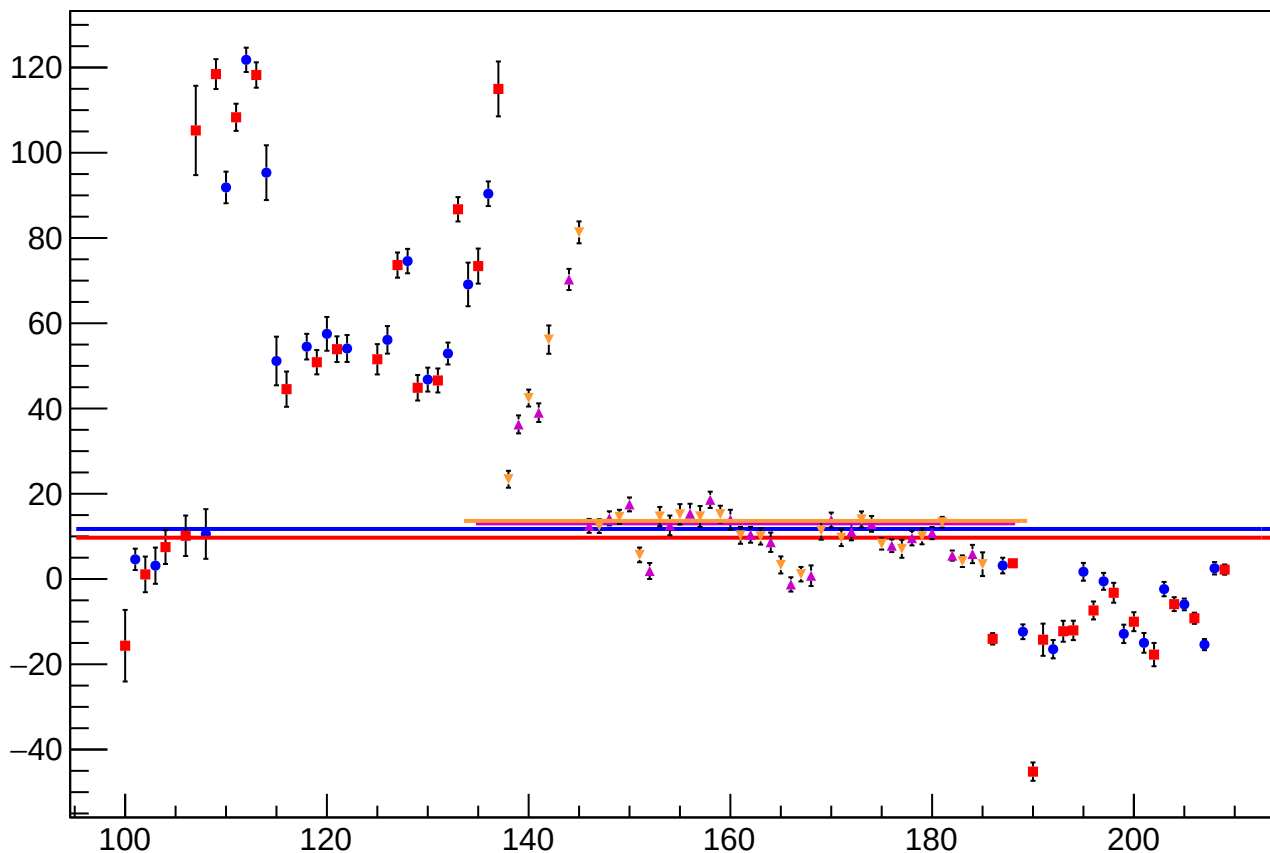
Right: 8.161 ± 0.266 $\chi^2/\text{NDF}: 877.0/57$

In: 4.867 ± 0.234 $\chi^2/\text{NDF}: 696.9/49$

Out: 5.517 ± 0.231 $\chi^2/\text{NDF}: 709.1/54$

All: 5.196 ± 0.165 $\chi^2/\text{NDF}: 1409.9/104$

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 11.741 $\pm$ 0.443 χ^2 /NDF: 6063.9/26

Left Out: 13.632 $\pm$ 0.382 χ^2 /NDF:1300.0/23

Right Out: 9.693 $\pm$ 0.402 χ^2 /NDF: 7831.9/30

Left In: 13.058 $\pm$ 0.380 χ^2 /NDF:1024.7/22

Left: 13.344 $\pm$ 0.269 χ^2 /NDF: 2325.9/46

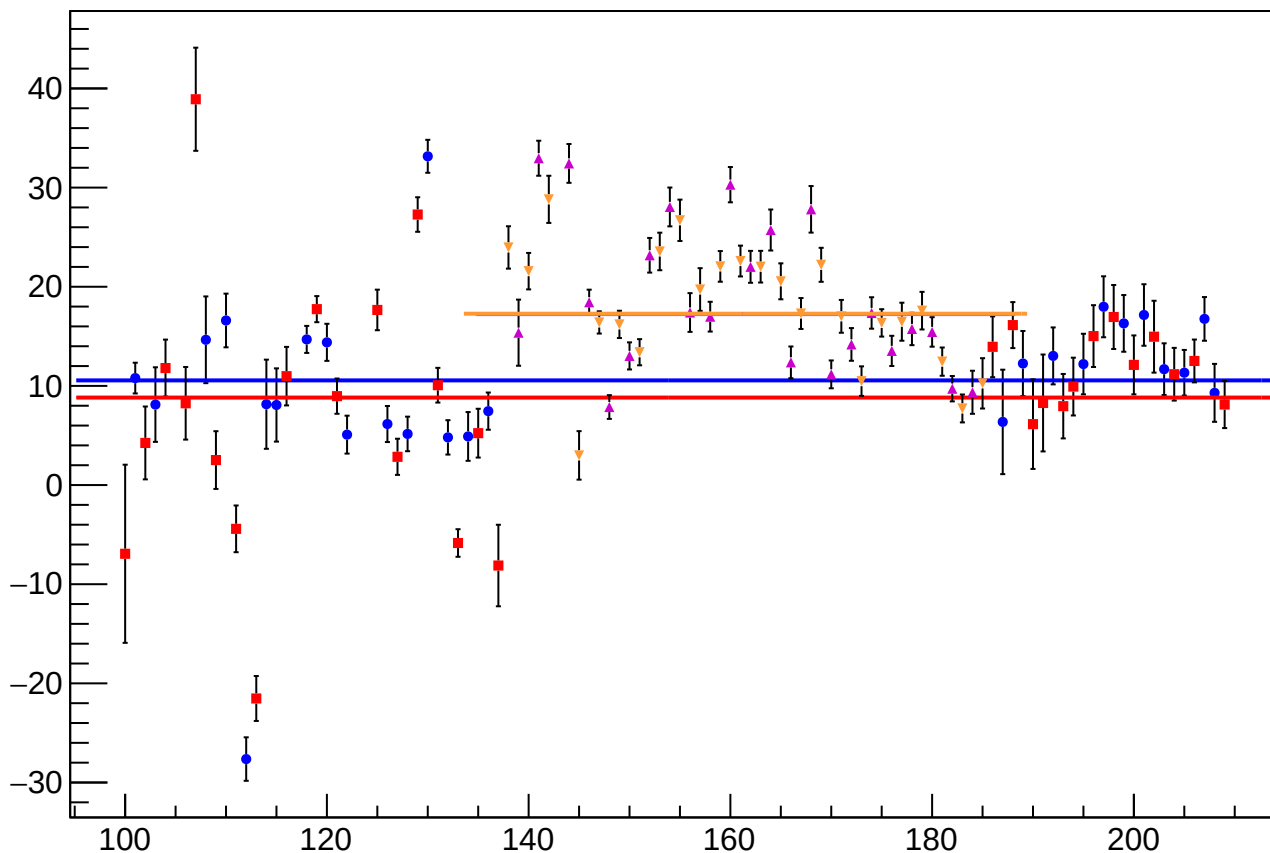
Right: 10.617 $\pm$ 0.298 χ^2 /NDF: 13907.5/57

In: 12.500 $\pm$ 0.288 χ^2 /NDF:7093.7/49

Out: 11.762 $\pm$ 0.277 χ^2 /NDF:9182.5/54

All: 12.116 $\pm$ 0.200 χ^2 /NDF: 16279.6/104

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.556 $\pm$ 0.437 χ^2/NDF : 576.3/26

Left Out: 17.280 $\pm$ 0.337 χ^2/NDF :243.9/23

Right Out: 8.823 $\pm$ 0.435 χ^2/NDF : 605.2/30

Left In: 17.245 $\pm$ 0.339 χ^2/NDF :440.8/22

Left: 17.262 $\pm$ 0.239 χ^2/NDF : 684.6/46

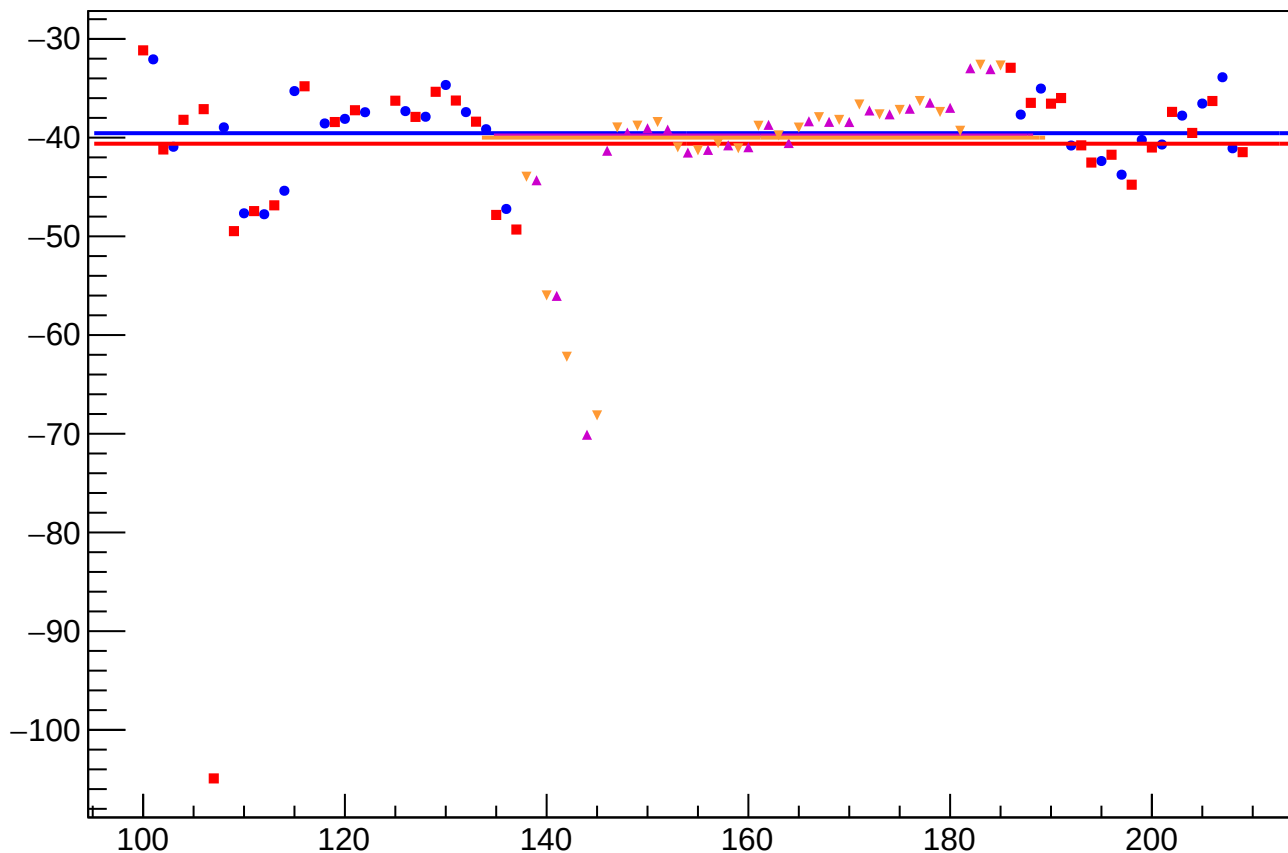
Right: 9.686 $\pm$ 0.309 χ^2/NDF : 1189.3/57

In: 14.731 $\pm$ 0.268 χ^2/NDF :1163.1/49

Out: 14.111 $\pm$ 0.267 χ^2/NDF :1084.9/54

All: 14.419 $\pm$ 0.189 χ^2/NDF : 2250.6/104

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.550 ± 0.022 χ^2/NDF : 36488.5/26

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -40.616 ± 0.021 χ^2/NDF : 106764.2/30

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

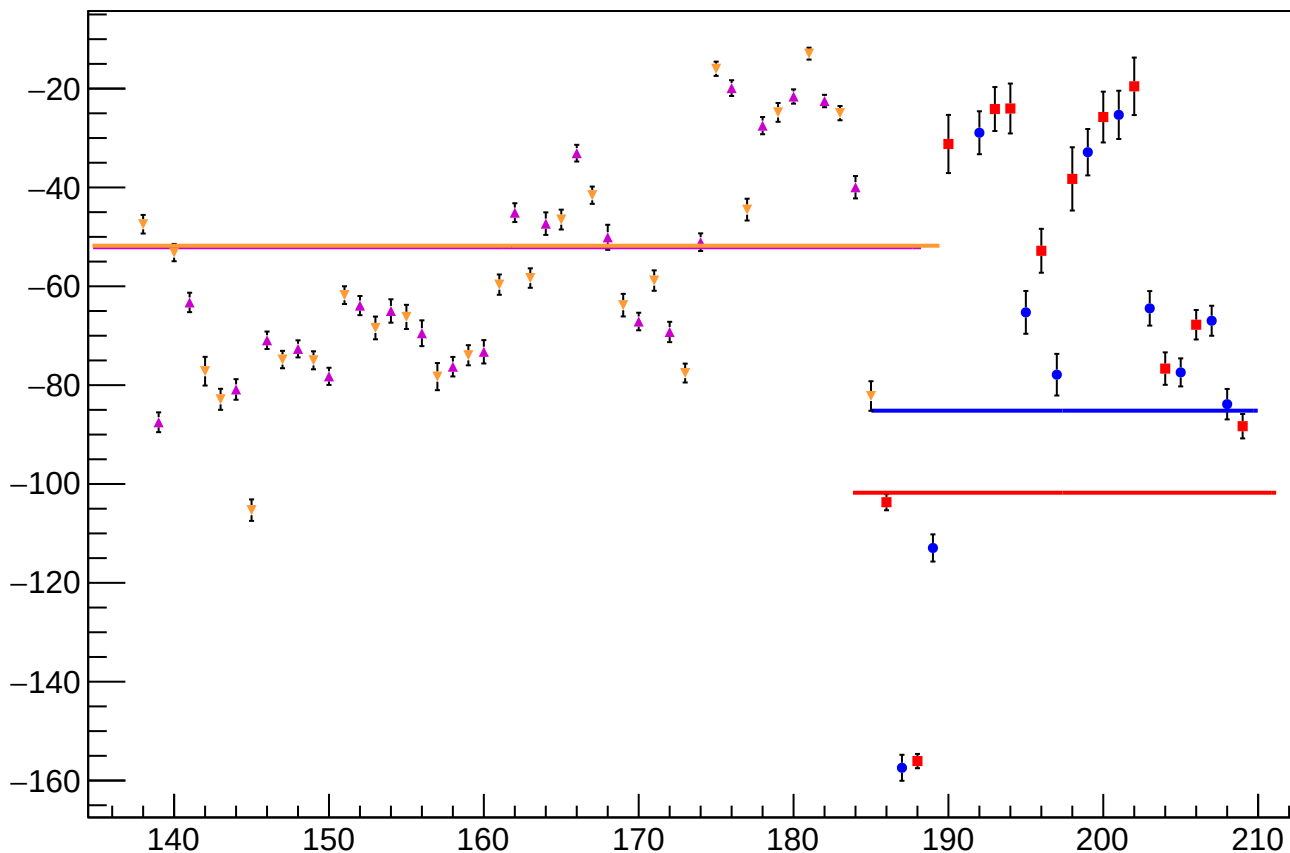
Right: -40.097 ± 0.015 χ^2/NDF : 144483.8/57

In: -39.705 ± 0.013 χ^2/NDF : 181059.8/49

Out: -40.219 ± 0.013 χ^2/NDF : 279573.0/54

All: -39.963 ± 0.009 χ^2/NDF : 461455.2/104

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -85.166 ± 1.028 χ^2/NDF : 1400.7/10

Left Out: -51.787 ± 0.383 χ^2/NDF : 4164.8/24

Right Out: -101.765 ± 0.821 χ^2/NDF : 2953.7/11

Left In: -52.104 ± 0.389 χ^2/NDF : 3280.2/22

Left: -51.943 ± 0.273 χ^2/NDF : 7445.3/47

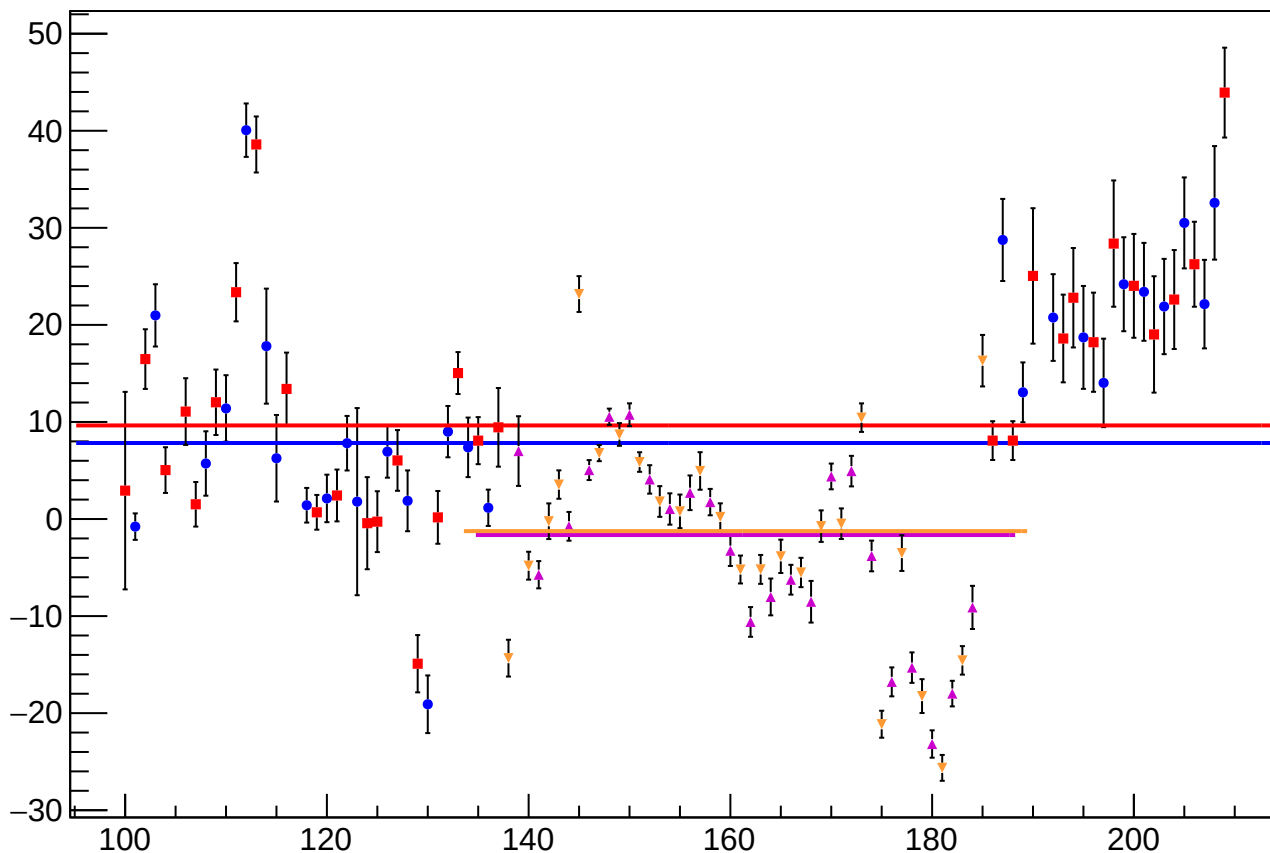
Right: -95.301 ± 0.641 χ^2/NDF : 4513.6/22

In: -56.240 ± 0.364 χ^2/NDF : 5586.2/33

Out: -60.709 ± 0.347 χ^2/NDF : 10164.1/36

All: -58.580 ± 0.251 χ^2/NDF : 15829.4/70

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.832 ± 0.571 $\chi^2/\text{NDF}: 438.0/27$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 9.642 ± 0.557 $\chi^2/\text{NDF}: 394.1/30$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

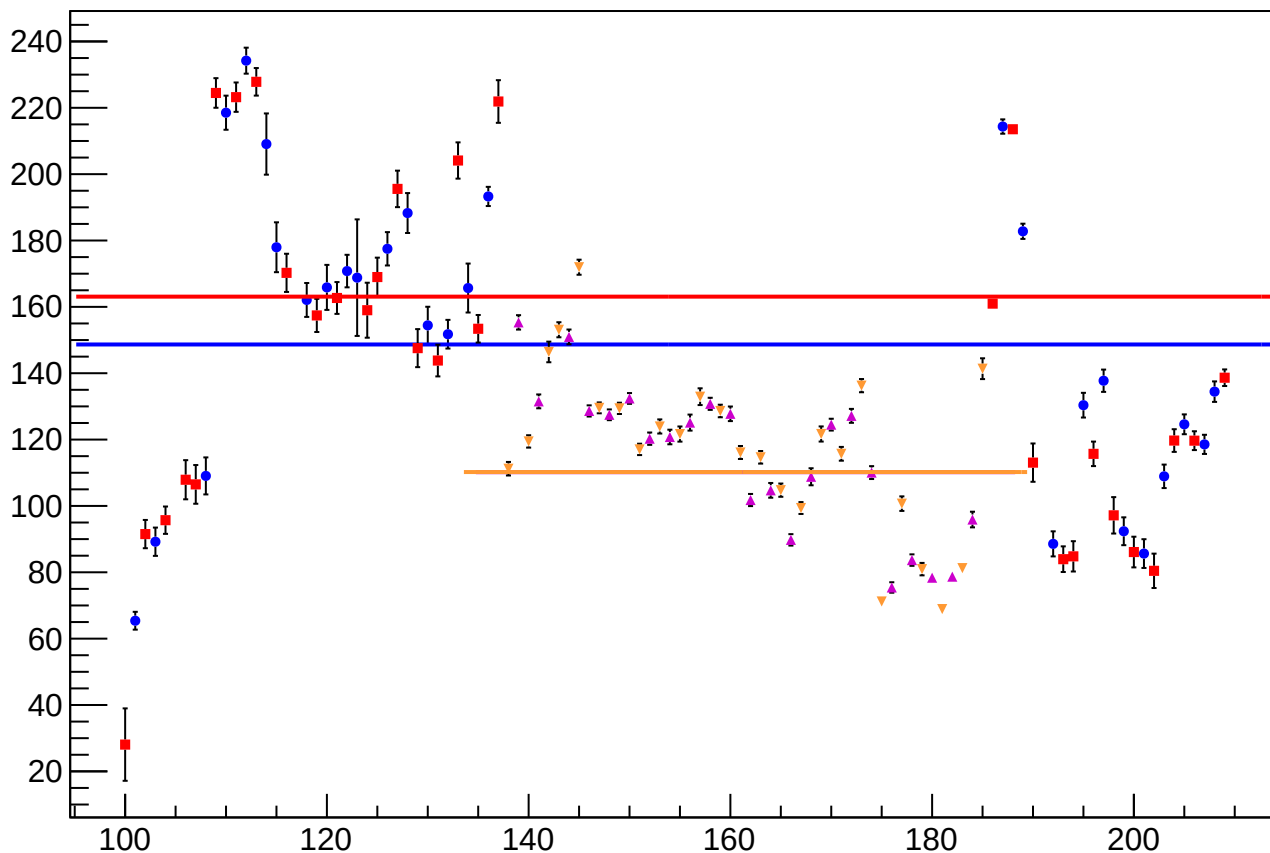
Right: 8.760 ± 0.398 $\chi^2/\text{NDF}: 837.3/58$

In: 0.405 ± 0.266 $\chi^2/\text{NDF}: 1746.5/50$

Out: 1.101 ± 0.258 $\chi^2/\text{NDF}: 2016.9/55$

All: 0.763 ± 0.185 $\chi^2/\text{NDF}: 3767.0/106$

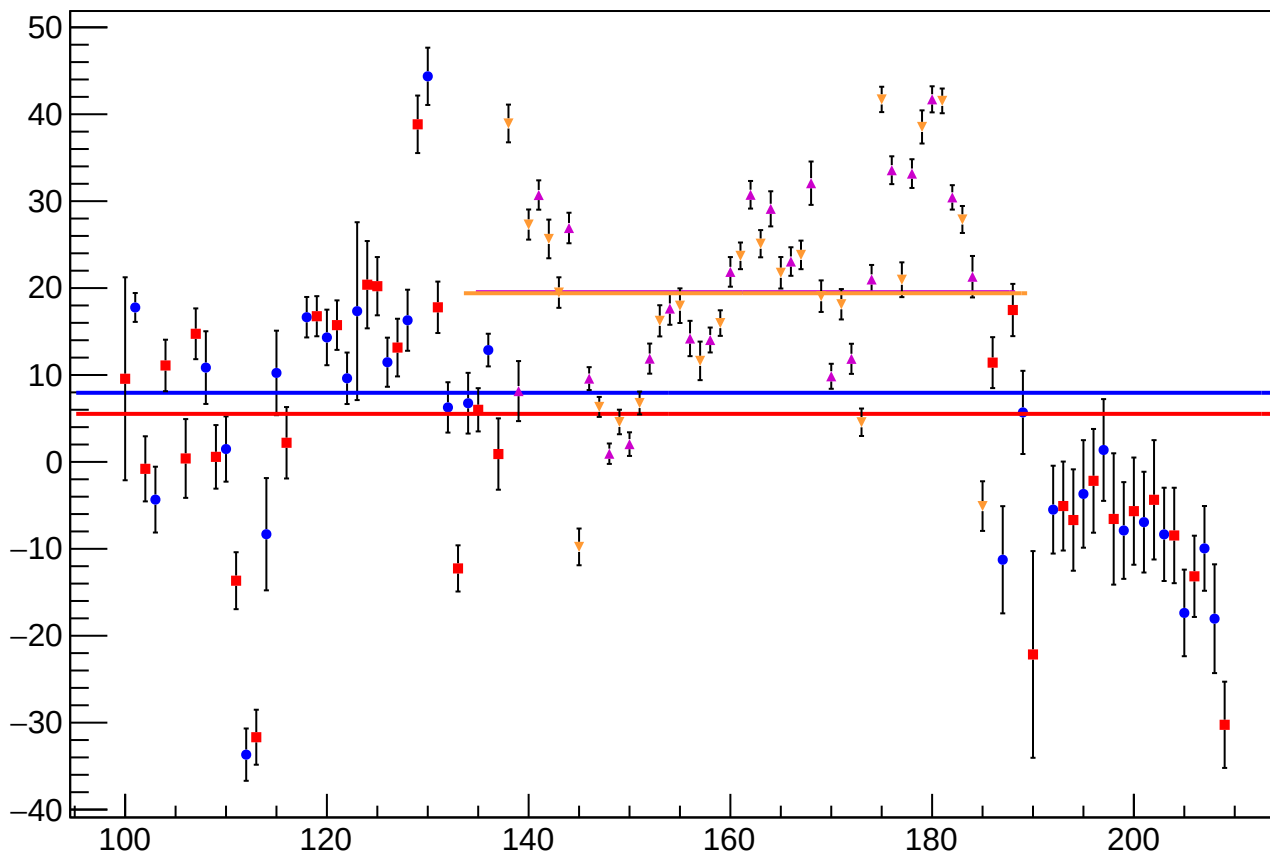
reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 148.664 ± 0.723 $\chi^2/\text{NDF}: 4427.4/27$
 Left Out: 110.213 ± 0.382 $\chi^2/\text{NDF}: 4593.7/24$
 Right Out: 163.084 ± 0.602 $\chi^2/\text{NDF}: 5720.1/30$
 Left In: 110.171 ± 0.386 $\chi^2/\text{NDF}: 3702.6/22$

Left: 110.192 ± 0.272 $\chi^2/\text{NDF}: 8296.2/47$
 Right: 157.170 ± 0.463 $\chi^2/\text{NDF}: 10382.5/58$
 In: 118.716 ± 0.340 $\chi^2/\text{NDF}: 10337.8/50$
 Out: 125.375 ± 0.323 $\chi^2/\text{NDF}: 15806.3/55$
 All: 122.224 ± 0.234 $\chi^2/\text{NDF}: 26345.6/106$

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.953 ± 0.660 $\chi^2/\text{NDF}: 504.8/27$

Left Out: 19.405 ± 0.335 $\chi^2/\text{NDF}: 1453.4/24$

Right Out: 5.528 ± 0.660 $\chi^2/\text{NDF}: 545.3/30$

Left In: 19.530 ± 0.342 $\chi^2/\text{NDF}: 1181.3/22$

Left: 19.466 ± 0.239 $\chi^2/\text{NDF}: 2634.8/47$

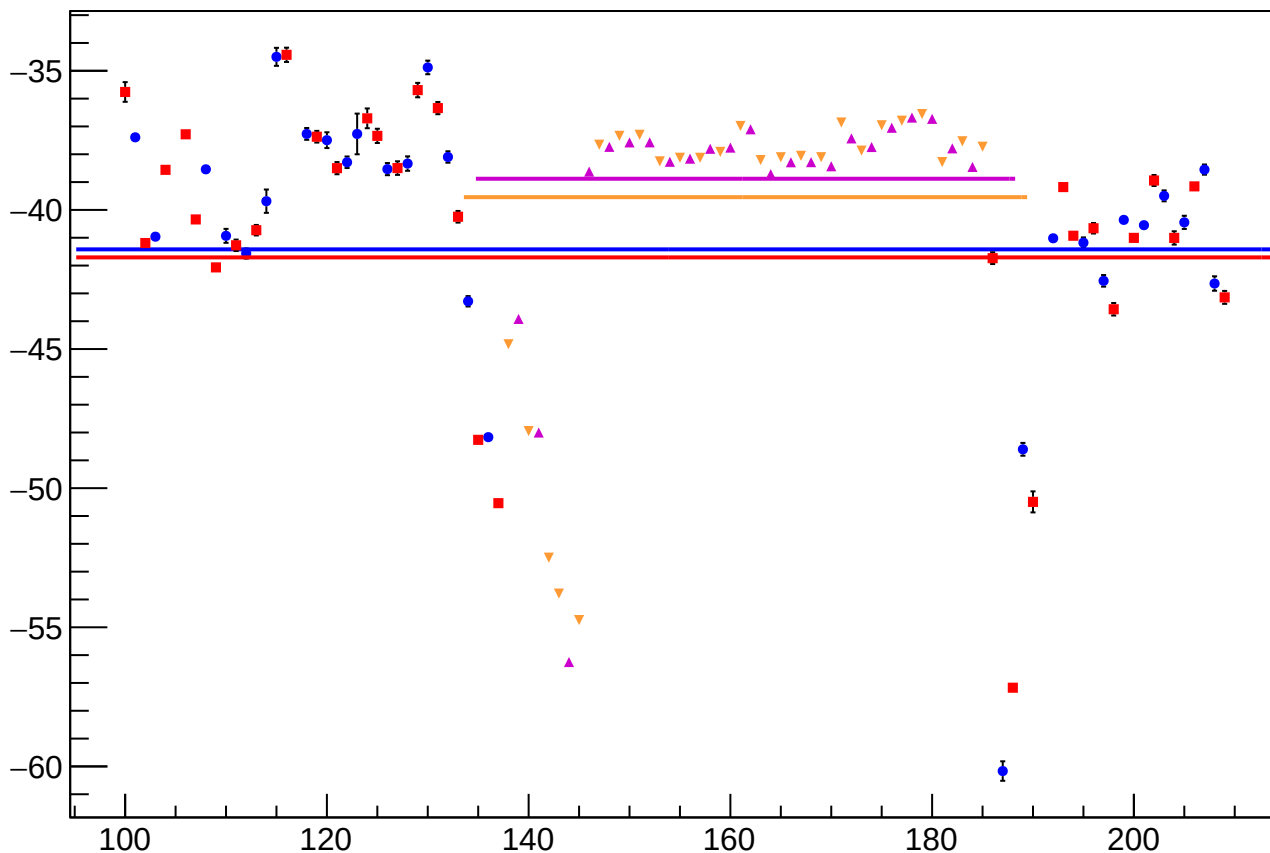
Right: 6.739 ± 0.467 $\chi^2/\text{NDF}: 1056.9/58$

In: 17.075 ± 0.304 $\chi^2/\text{NDF}: 1928.5/50$

Out: 16.564 ± 0.298 $\chi^2/\text{NDF}: 2350.7/55$

All: 16.815 ± 0.213 $\chi^2/\text{NDF}: 4280.7/106$

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.418 $\pm$ 0.032 χ^2/NDF : 16840.5/27

Left Out: -39.542 $\pm$ 0.016 χ^2/NDF : 92024.1/24

Right Out: -41.706 $\pm$ 0.032 χ^2/NDF : 23108.0/30

Left In: -38.880 $\pm$ 0.016 χ^2/NDF : 53409.9/22

Left: -39.214 $\pm$ 0.011 χ^2/NDF : 146312.0/47

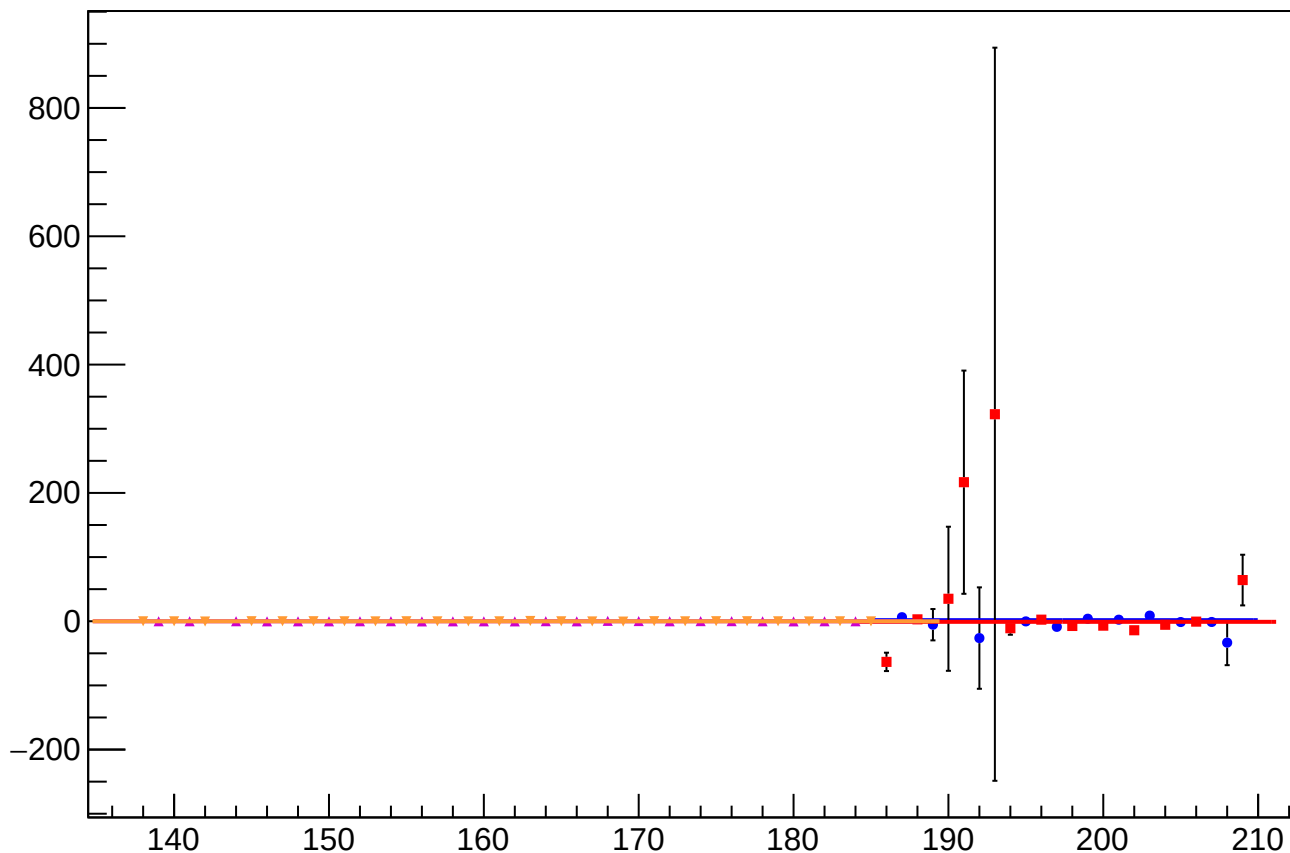
Right: -41.564 $\pm$ 0.023 χ^2/NDF : 39988.8/58

In: -39.370 $\pm$ 0.014 χ^2/NDF : 75195.3/50

Out: -39.966 $\pm$ 0.014 χ^2/NDF : 118841.9/55

All: -39.671 $\pm$ 0.010 χ^2/NDF : 194920.5/106

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.695 ± 1.536 $\chi^2/\text{NDF}: 12.2/10$

Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$

Right Out: -0.910 ± 1.421 $\chi^2/\text{NDF}: 35.2/12$

Left In: -0.026 ± 0.022 $\chi^2/\text{NDF}: 33.3/22$

Left: -0.057 ± 0.016 $\chi^2/\text{NDF}: 77.1/46$

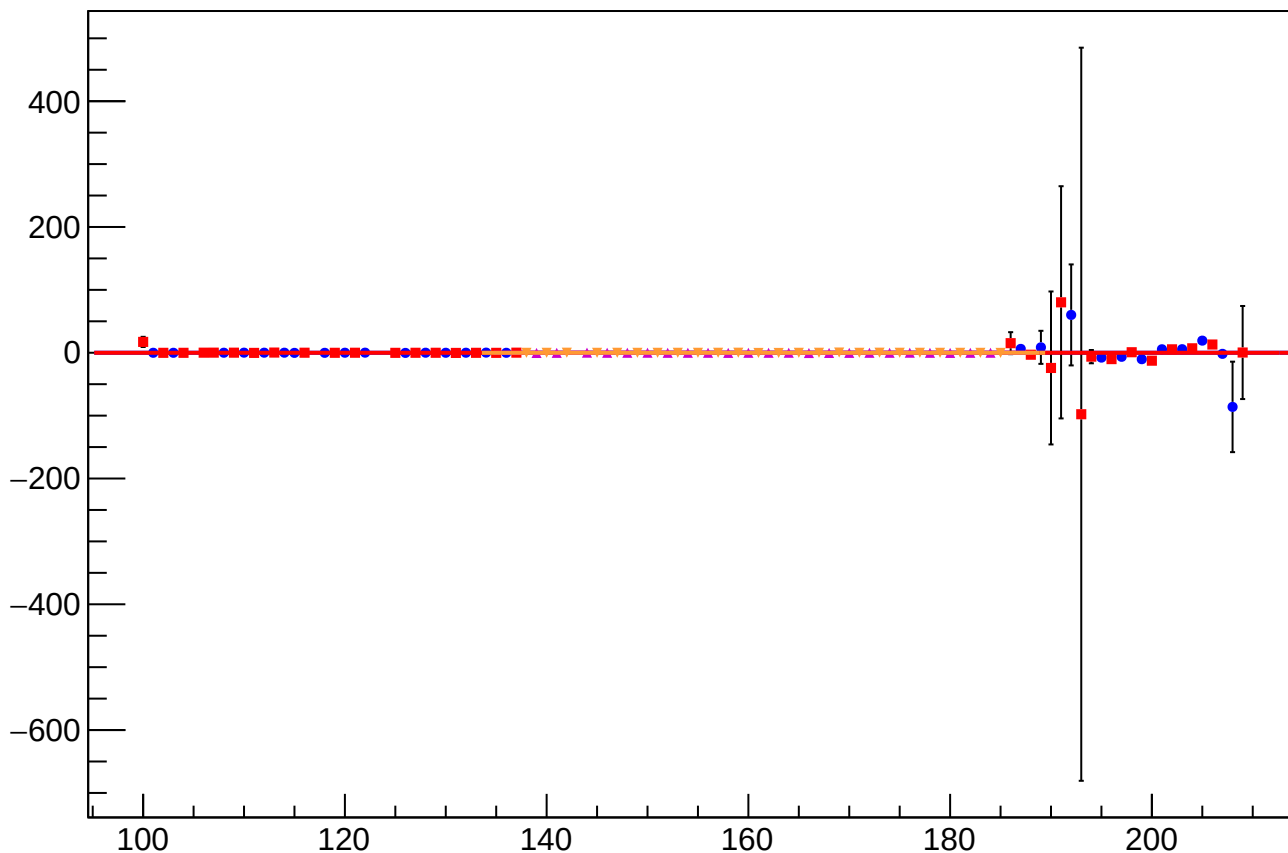
Right: 0.291 ± 1.043 $\chi^2/\text{NDF}: 49.0/23$

In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 46.8/33$

Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 75.3/36$

All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 126.2/70$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 33.3/26

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 41.1/30

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

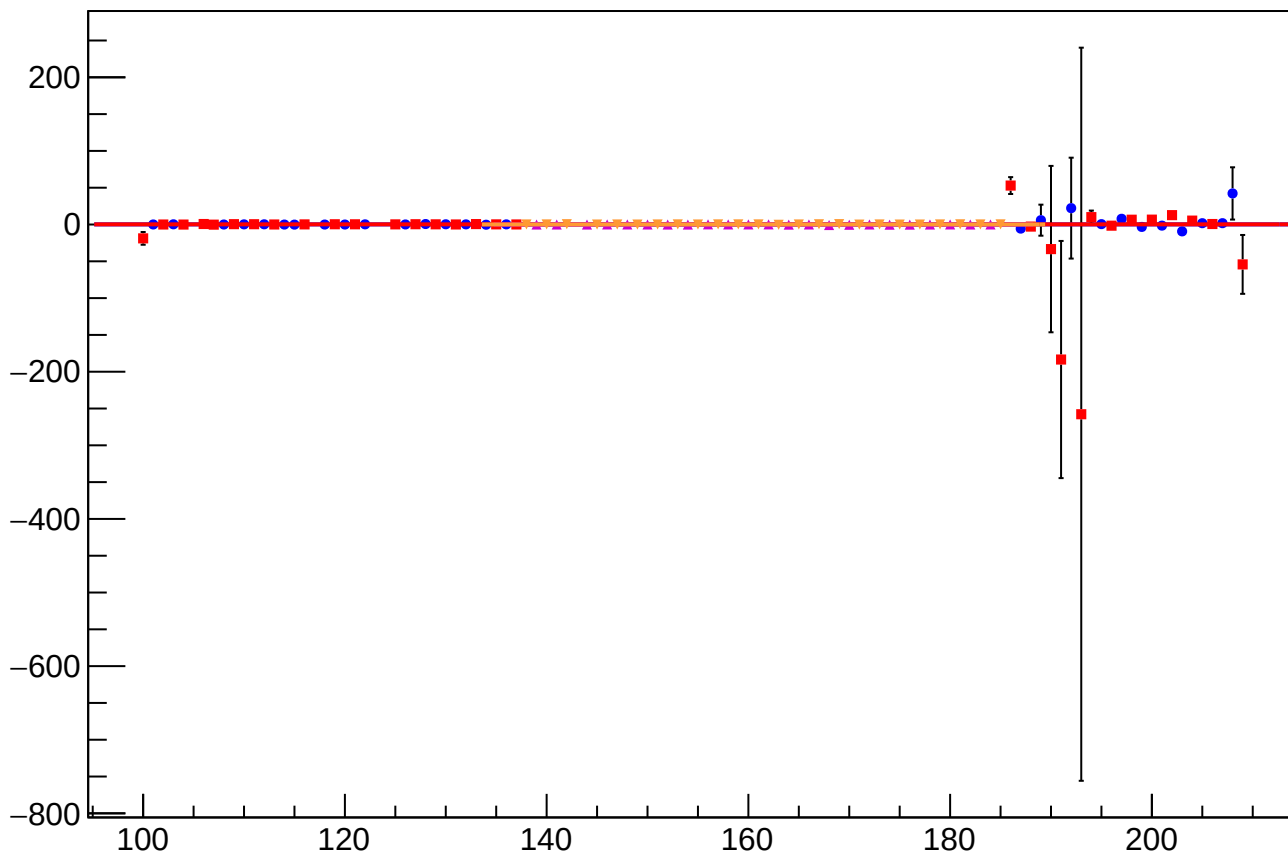
Right: -0.025 ± 0.020 χ^2/NDF : 75.8/57

In: -0.038 ± 0.015 χ^2/NDF : 67.3/49

Out: -0.073 ± 0.015 χ^2/NDF : 67.7/54

All: -0.056 ± 0.011 χ^2/NDF : 137.7/104

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 28.6/26

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 58.8/30

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

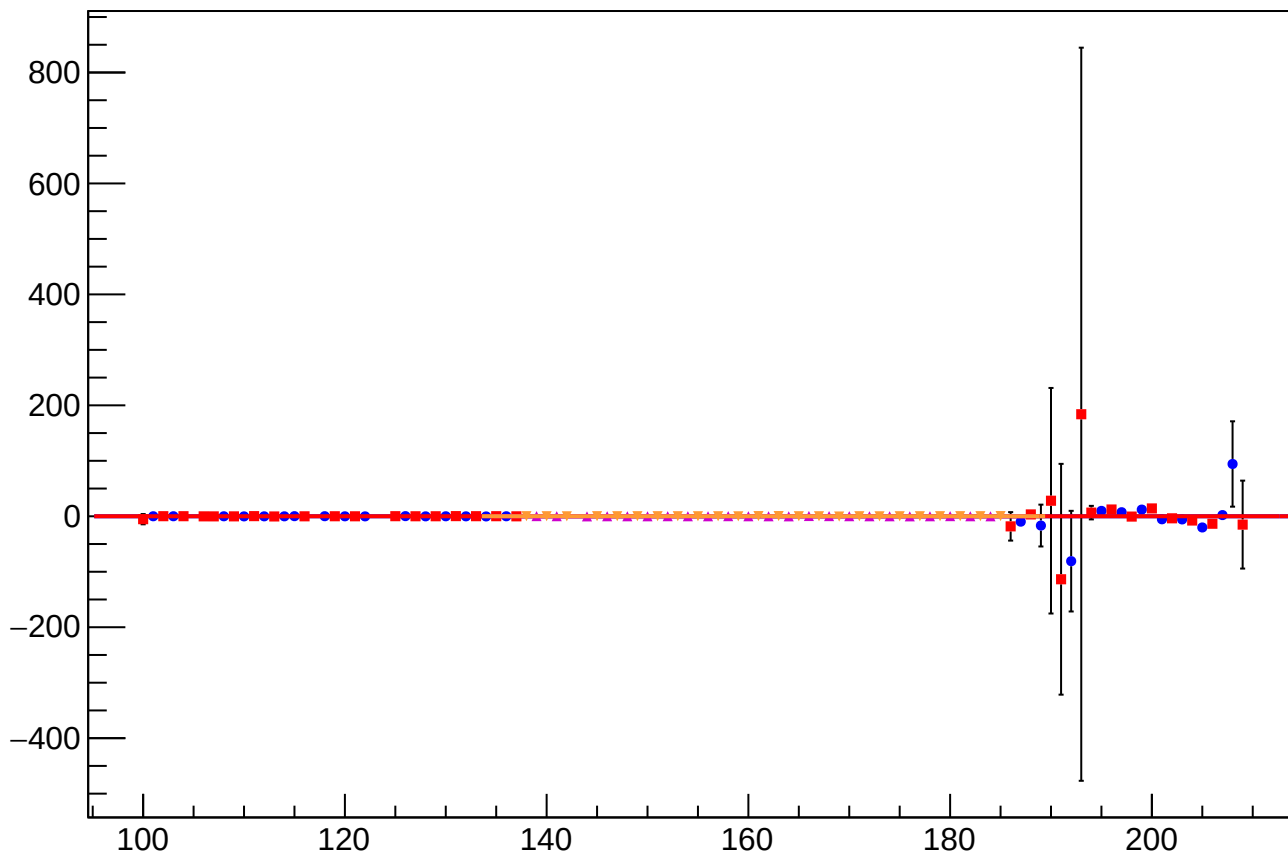
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 88.1/57

In: 0.043 $\pm$ 0.020 χ^2 /NDF:71.2/49

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:104.2/54

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 179.8/104

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 $\chi^2/\text{NDF}: 35.0/26$

Left Out: 0.105 ± 0.020 $\chi^2/\text{NDF}: 29.5/23$

Right Out: 0.057 ± 0.034 $\chi^2/\text{NDF}: 34.6/30$

Left In: 0.069 ± 0.020 $\chi^2/\text{NDF}: 31.3/22$

Left: 0.088 ± 0.014 $\chi^2/\text{NDF}: 62.5/46$

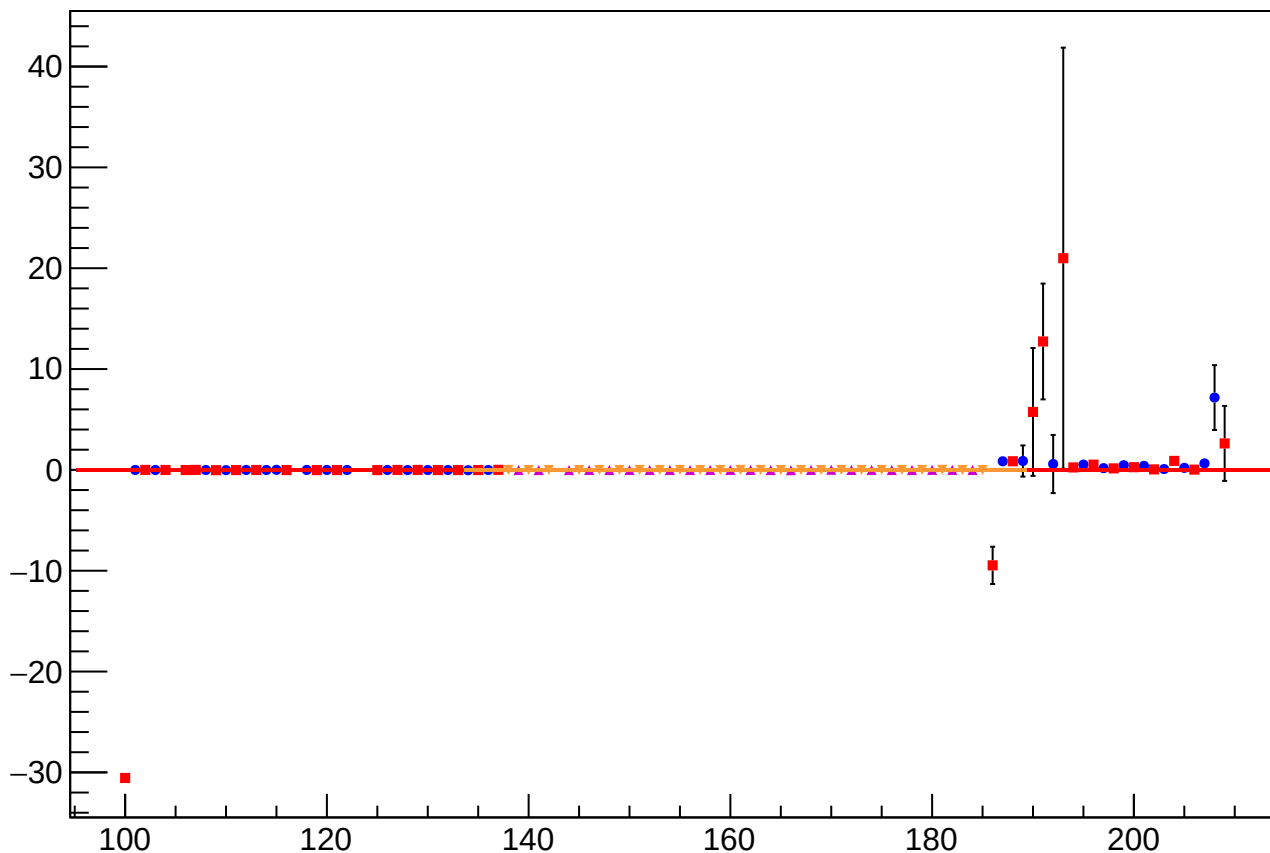
Right: 0.024 ± 0.024 $\chi^2/\text{NDF}: 71.4/57$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 70.2/49$

Out: 0.093 ± 0.017 $\chi^2/\text{NDF}: 65.6/54$

All: 0.071 ± 0.012 $\chi^2/\text{NDF}: 139.2/104$

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 $\pm$ 0.002 χ^2 /NDF: 46.6/26

Left Out: -0.008 $\pm$ 0.001 χ^2 /NDF:30.1/23

Right Out: -0.012 $\pm$ 0.002 χ^2 /NDF: 11954.8/30

Left In: -0.009 $\pm$ 0.001 χ^2 /NDF:40.8/22

Left: -0.008 $\pm$ 0.001 χ^2 /NDF: 71.4/46

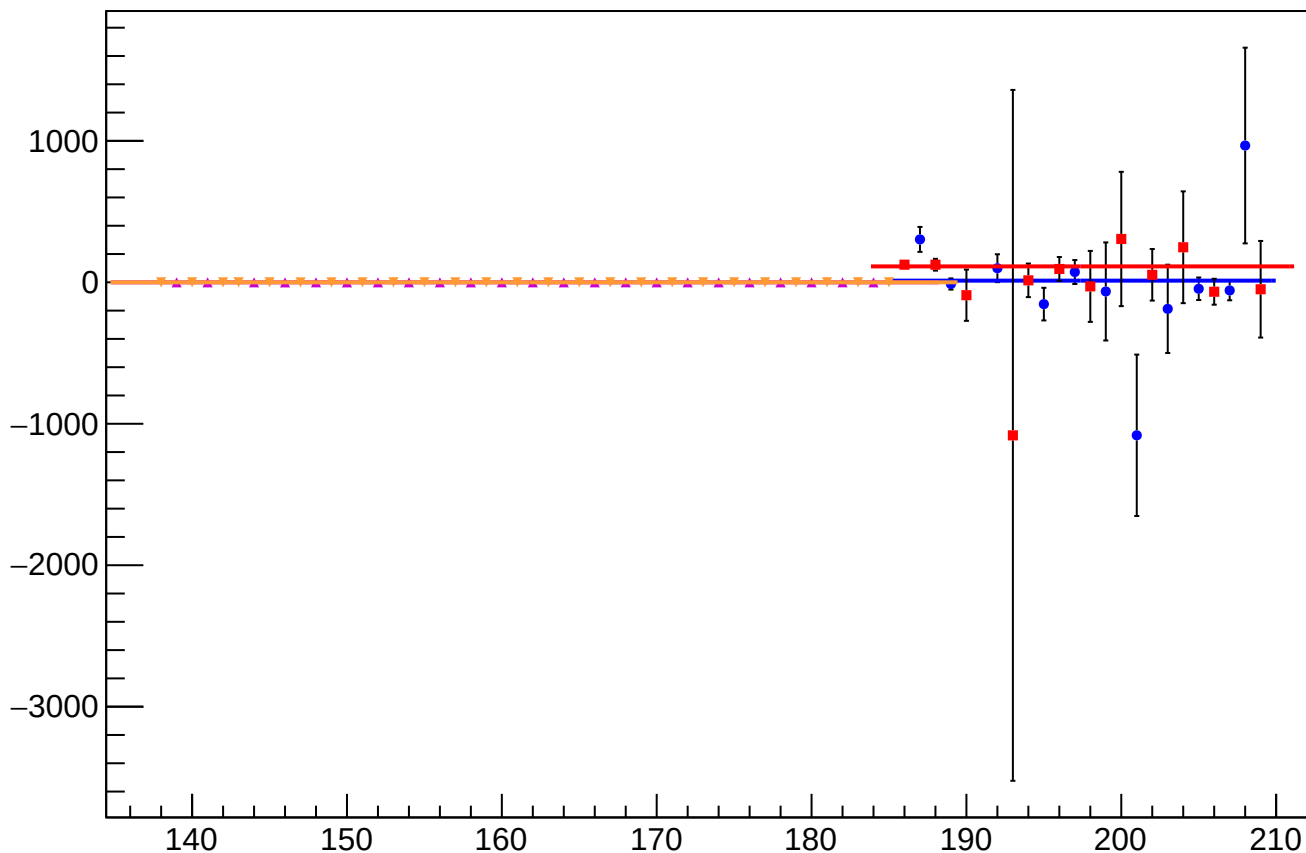
Right: -0.012 $\pm$ 0.001 χ^2 /NDF: 12001.4/57

In: -0.009 $\pm$ 0.001 χ^2 /NDF:89.6/49

Out: -0.009 $\pm$ 0.001 χ^2 /NDF:11988.7/54

All: -0.009 $\pm$ 0.001 χ^2 /NDF: 12078.5/104

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.895 $\pm$ 26.038 χ^2 /NDF: 22.2/10

Left Out: 0.017 $\pm$ 0.027 χ^2 /NDF:30.9/24

Right Out: 112.585 $\pm$ 16.167 χ^2 /NDF: 7.5/11

Left In: 0.002 $\pm$ 0.028 χ^2 /NDF:29.0/22

Left: 0.010 $\pm$ 0.019 χ^2 /NDF: 60.1/47

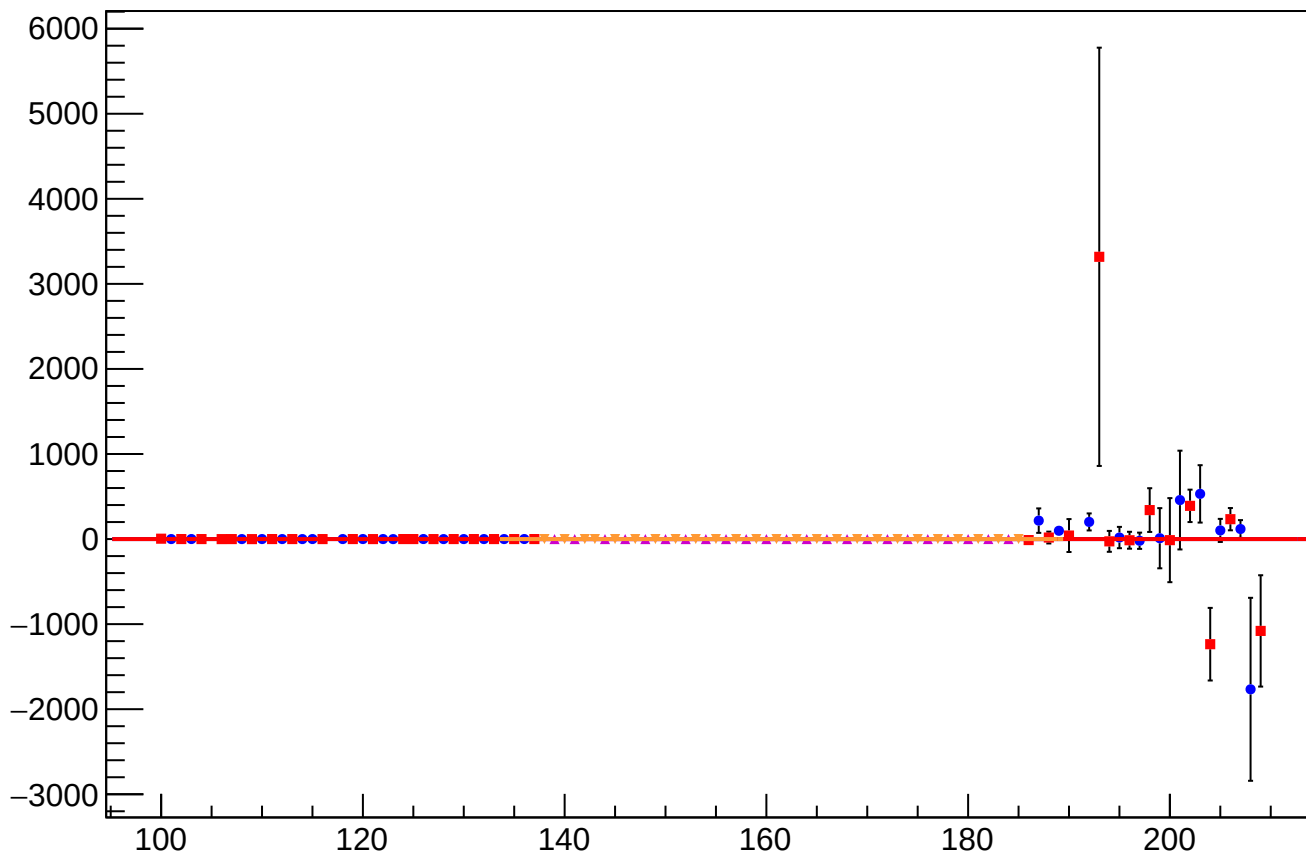
Right: 84.569 $\pm$ 13.735 χ^2 /NDF: 40.5/22

In: 0.002 $\pm$ 0.028 χ^2 /NDF:51.4/33

Out: 0.018 $\pm$ 0.027 χ^2 /NDF:86.9/36

All: 0.010 $\pm$ 0.019 χ^2 /NDF: 138.5/70

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 41.7/27$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 41.0/30$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

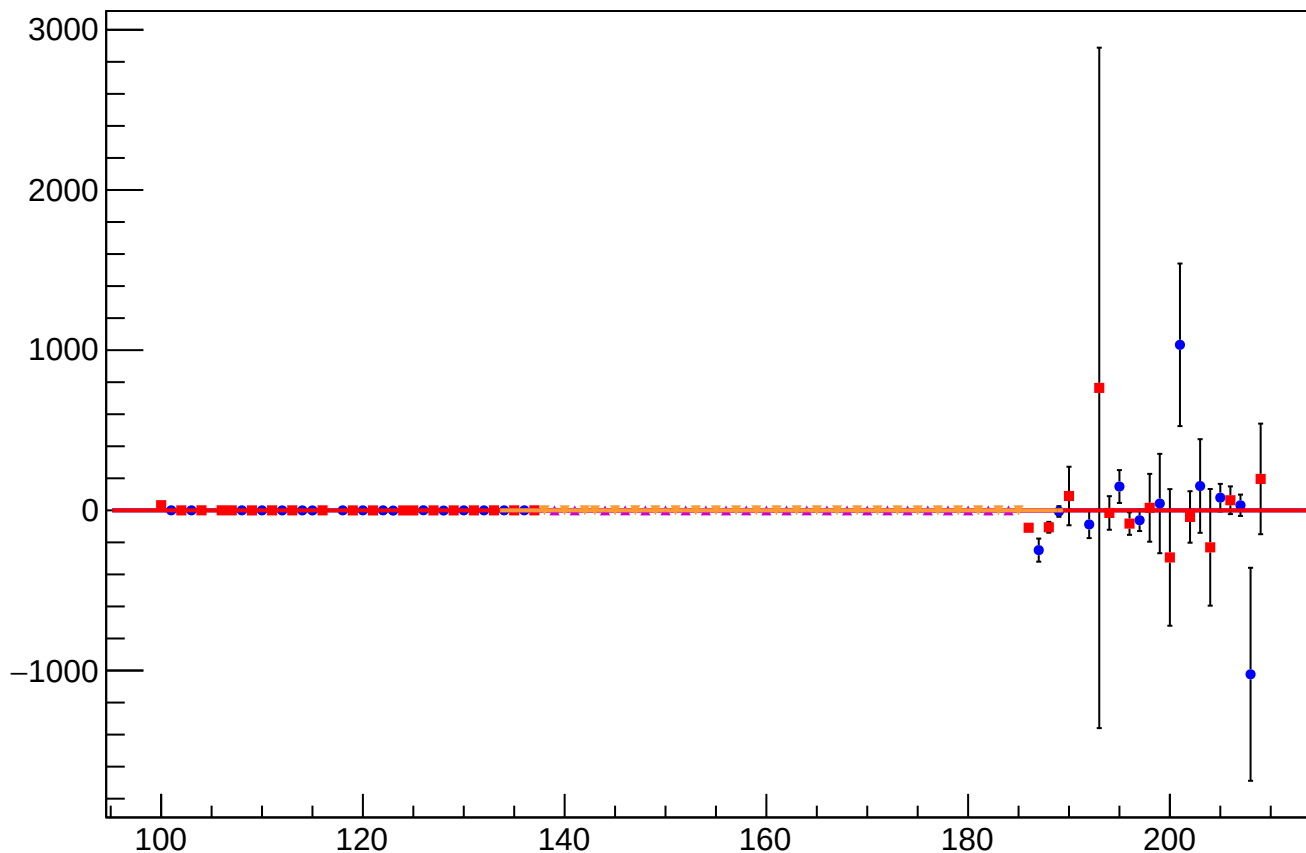
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 86.0/58$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 92.0/50$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 67.5/55$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 159.8/106$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 48.5/27$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 79.4/30$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

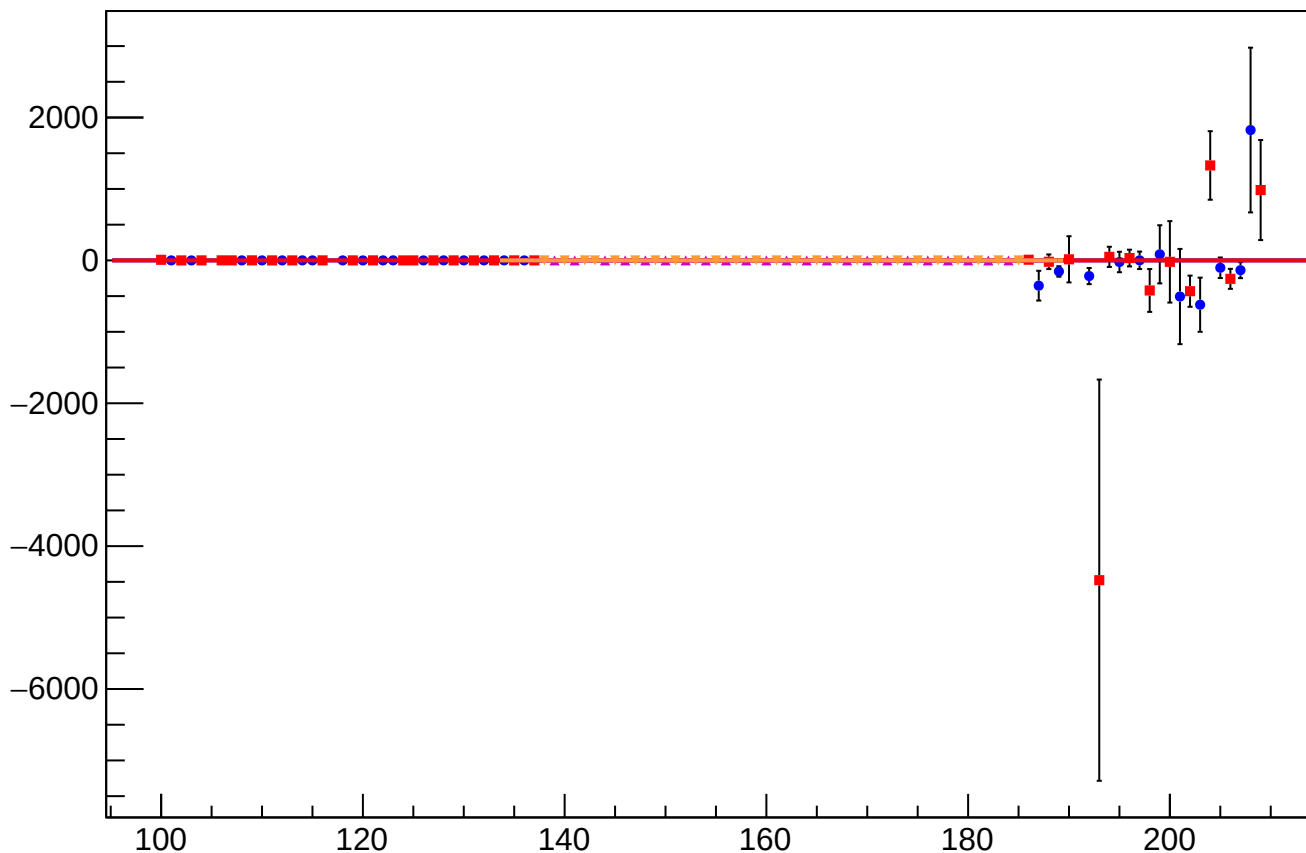
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 128.0/58$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 79.0/50$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 112.3/55$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 191.3/106$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 40.6/27

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 38.6/30

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

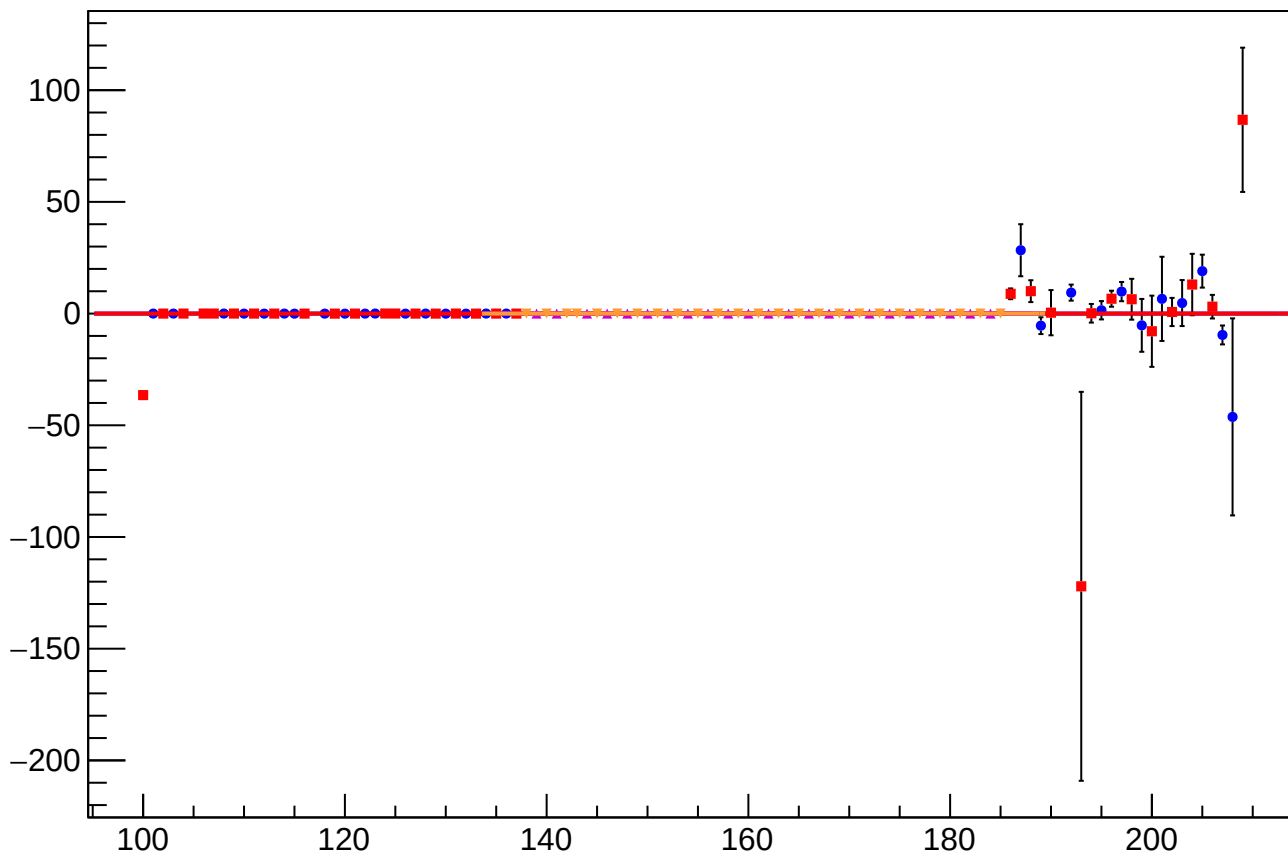
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 83.2/58

In: 0.056 $\pm$ 0.021 χ^2 /NDF:93.4/50

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:65.7/55

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 159.8/106

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 64.0/27

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF:26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10481.5/30

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

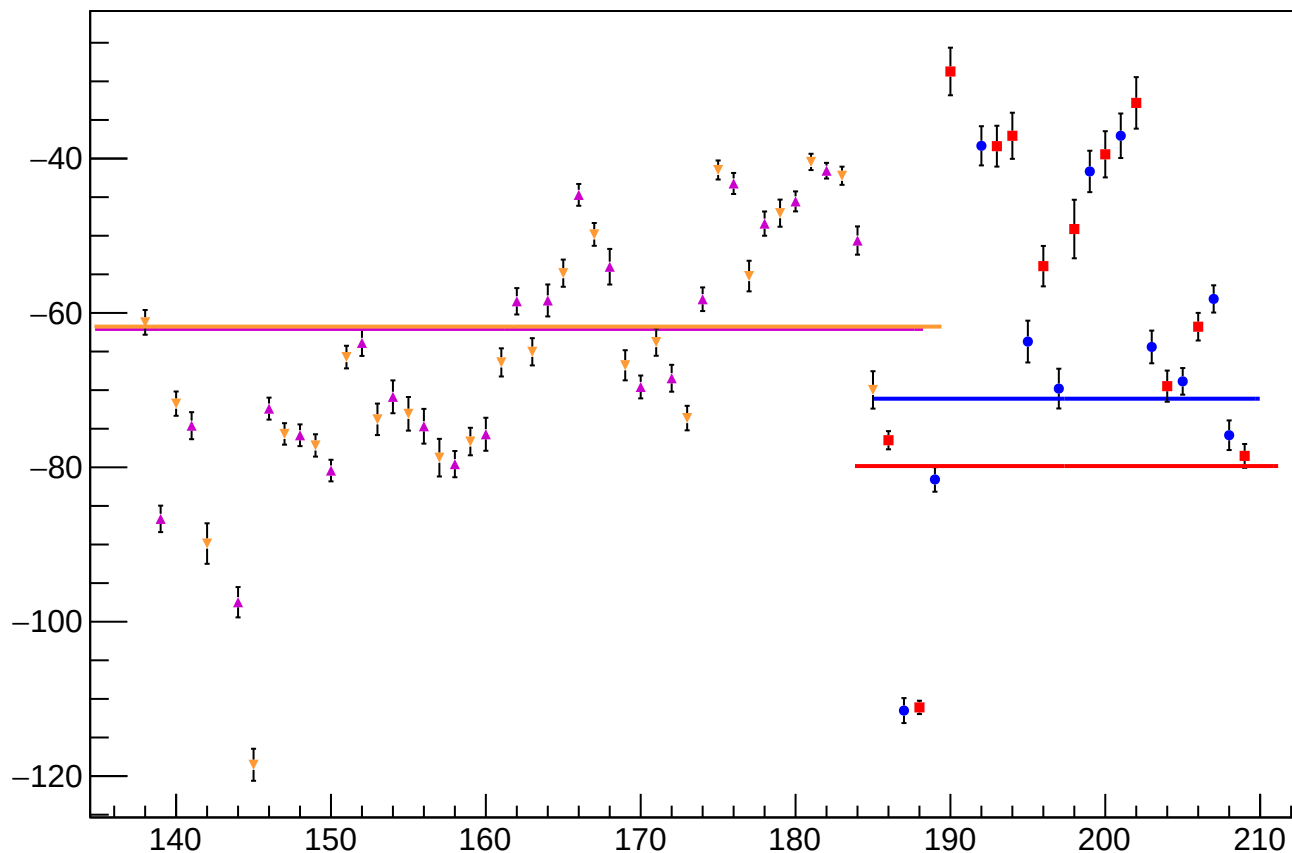
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10545.6/58

In: 0.007 $\pm$ 0.001 χ^2 /NDF:88.5/50

Out: 0.007 $\pm$ 0.001 χ^2 /NDF:10516.8/55

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10605.4/106

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.110 ± 0.616 $\chi^2/\text{NDF}: 1173.0/10$

Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$

Right Out: -79.837 ± 0.512 $\chi^2/\text{NDF}: 2715.7/11$

Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$

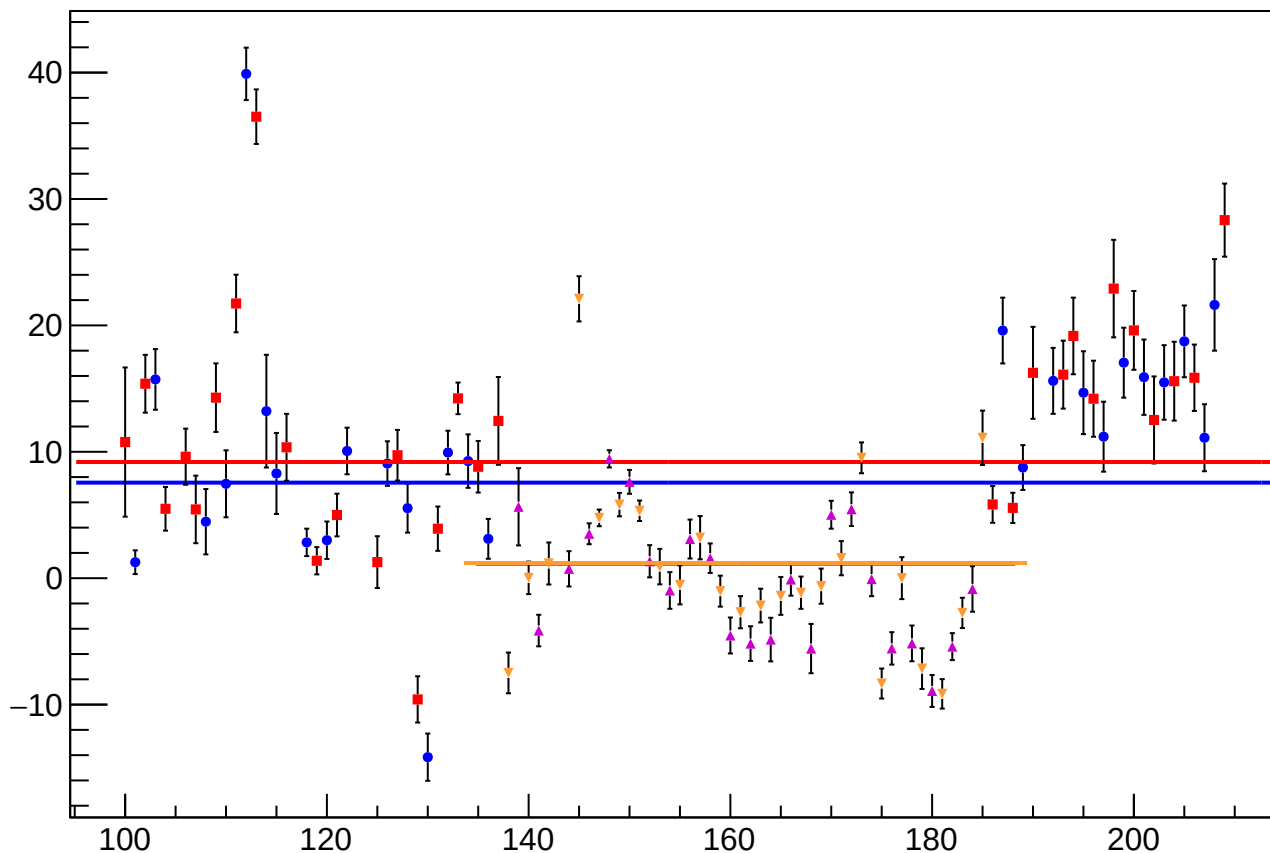
Right: -76.273 ± 0.394 $\chi^2/\text{NDF}: 4007.3/22$

In: -64.109 ± 0.293 $\chi^2/\text{NDF}: 3531.5/33$

Out: -67.162 ± 0.280 $\chi^2/\text{NDF}: 6094.2/35$

All: -65.704 ± 0.202 $\chi^2/\text{NDF}: 9682.6/69$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.560 ± 0.379 $\chi^2/\text{NDF}: 577.5/26$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 9.194 ± 0.375 $\chi^2/\text{NDF}: 530.9/29$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

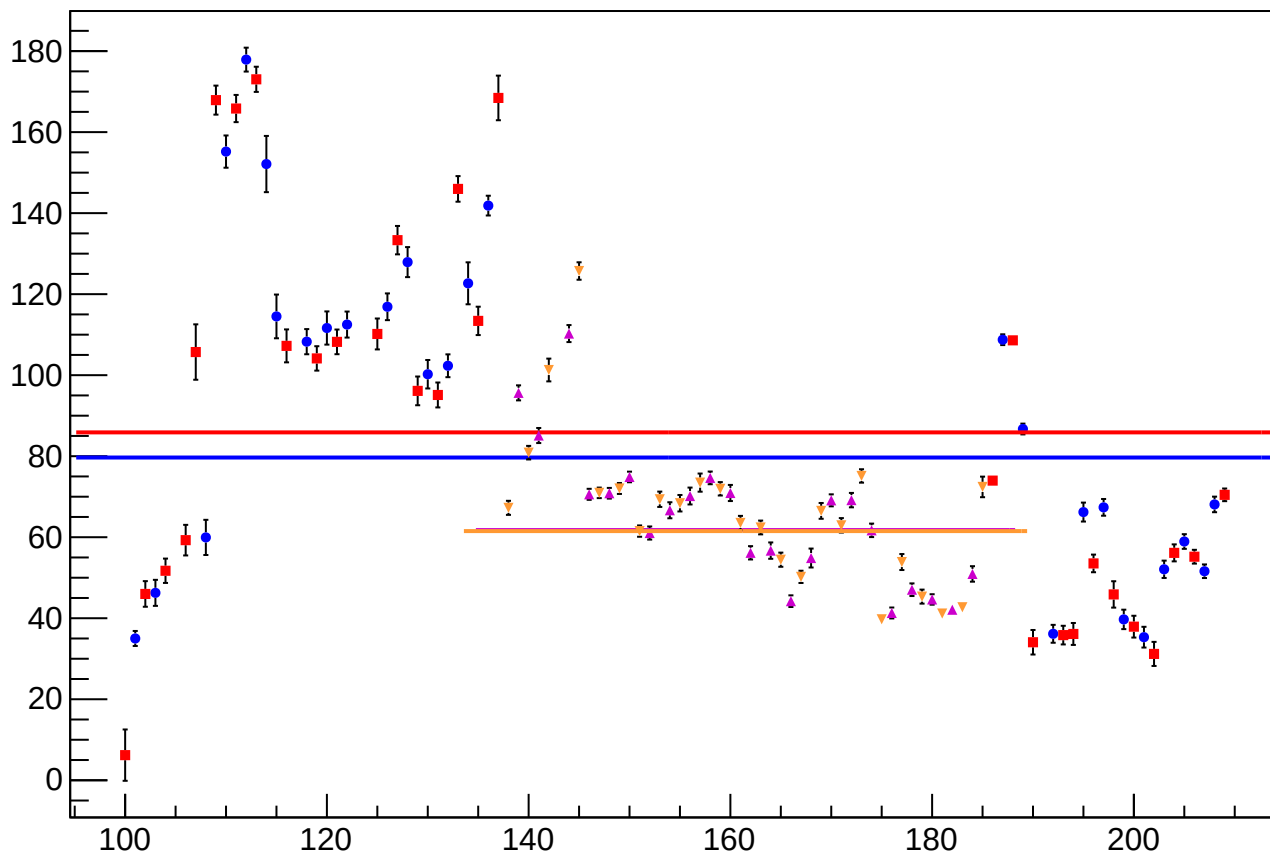
Right: 8.385 ± 0.267 $\chi^2/\text{NDF}: 1117.7/56$

In: 3.146 ± 0.212 $\chi^2/\text{NDF}: 1237.2/49$

Out: 3.690 ± 0.210 $\chi^2/\text{NDF}: 1369.5/53$

All: 3.421 ± 0.149 $\chi^2/\text{NDF}: 2610.1/103$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 79.674 $\pm$ 0.459 χ^2 /NDF: 5849.4/26

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF: 2606.0/23

Right Out: 85.878 $\pm$ 0.389 χ^2 /NDF: 7374.8/29

Left In: 61.762 $\pm$ 0.330 χ^2 /NDF: 2418.2/22

Left: 61.638 $\pm$ 0.234 χ^2 /NDF: 5024.5/46

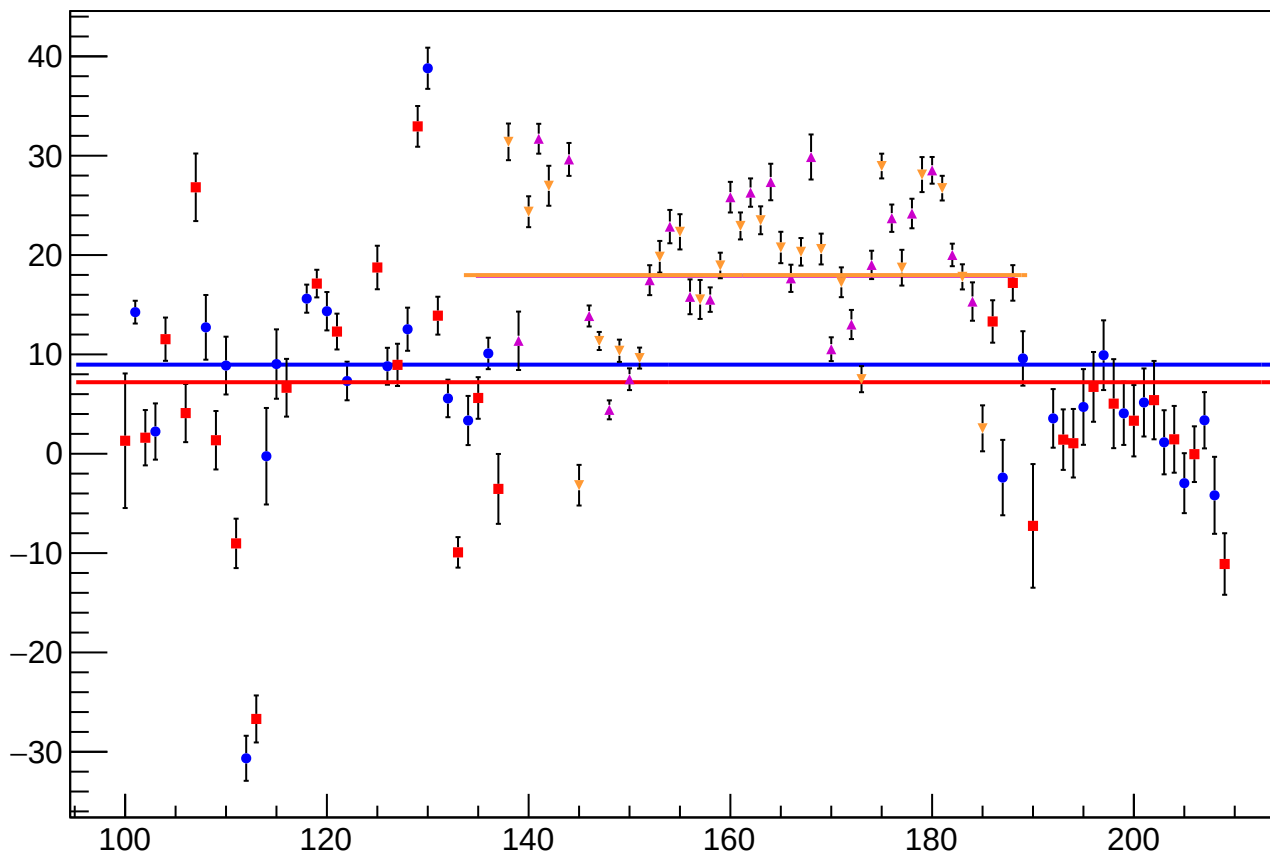
Right: 83.285 $\pm$ 0.297 χ^2 /NDF: 13330.4/56

In: 67.859 $\pm$ 0.268 χ^2 /NDF: 9270.6/49

Out: 71.786 $\pm$ 0.253 χ^2 /NDF: 12247.6/53

All: 69.938 $\pm$ 0.184 χ^2 /NDF: 21631.9/103

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.969 ± 0.444 χ^2/NDF : 641.1/26

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 7.200 ± 0.448 χ^2/NDF : 784.5/29

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

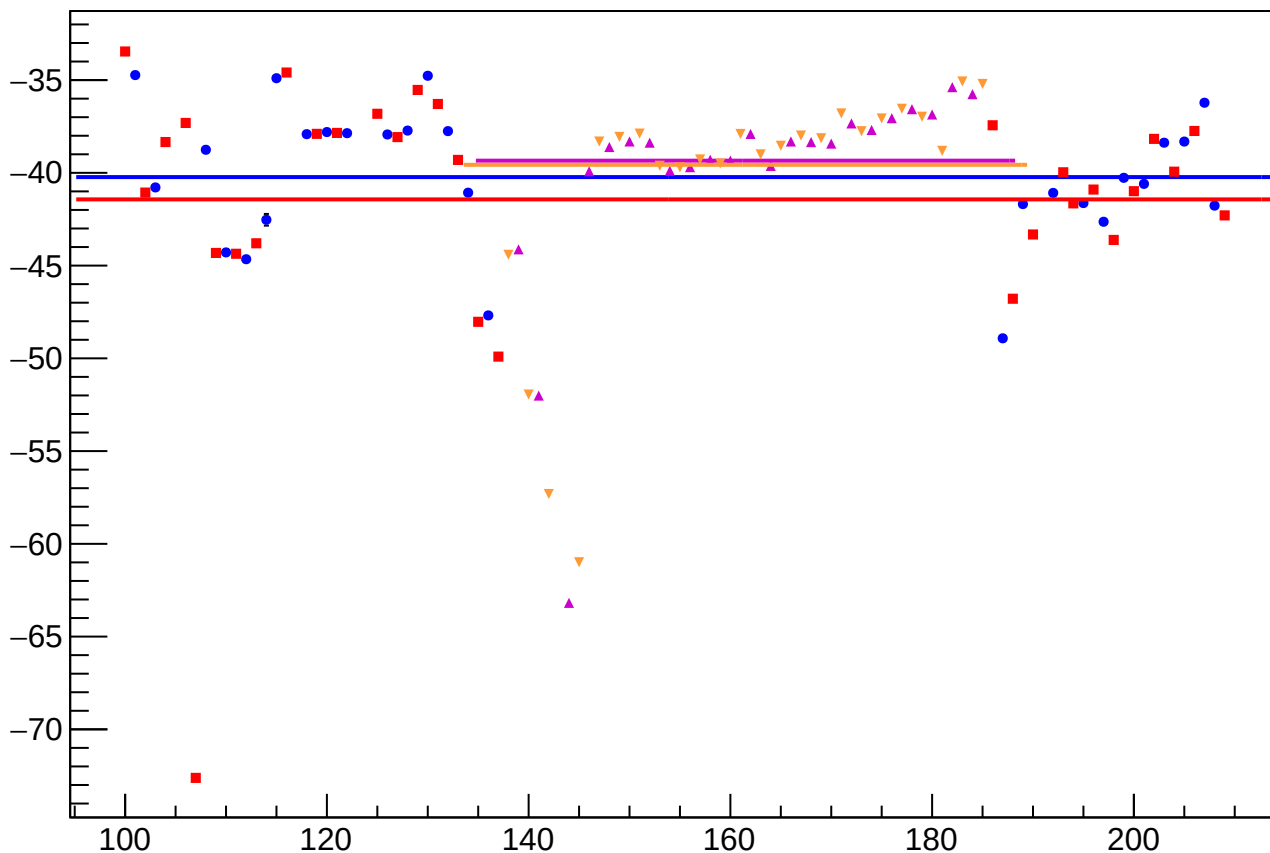
Right: 8.093 ± 0.315 χ^2/NDF : 1433.4/56

In: 15.209 ± 0.244 χ^2/NDF : 1651.0/49

Out: 14.783 ± 0.244 χ^2/NDF : 1866.1/53

All: 14.996 ± 0.173 χ^2/NDF : 3518.6/103

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.229 ± 0.022 χ^2/NDF : 29430.2/26

Left Out: -39.566 ± 0.014 χ^2/NDF : 141198.7/23

Right Out: -41.431 ± 0.022 χ^2/NDF : 68589.3/29

Left In: -39.344 ± 0.014 χ^2/NDF : 116615.7/22

Left: -39.454 ± 0.010 χ^2/NDF : 257946.5/46

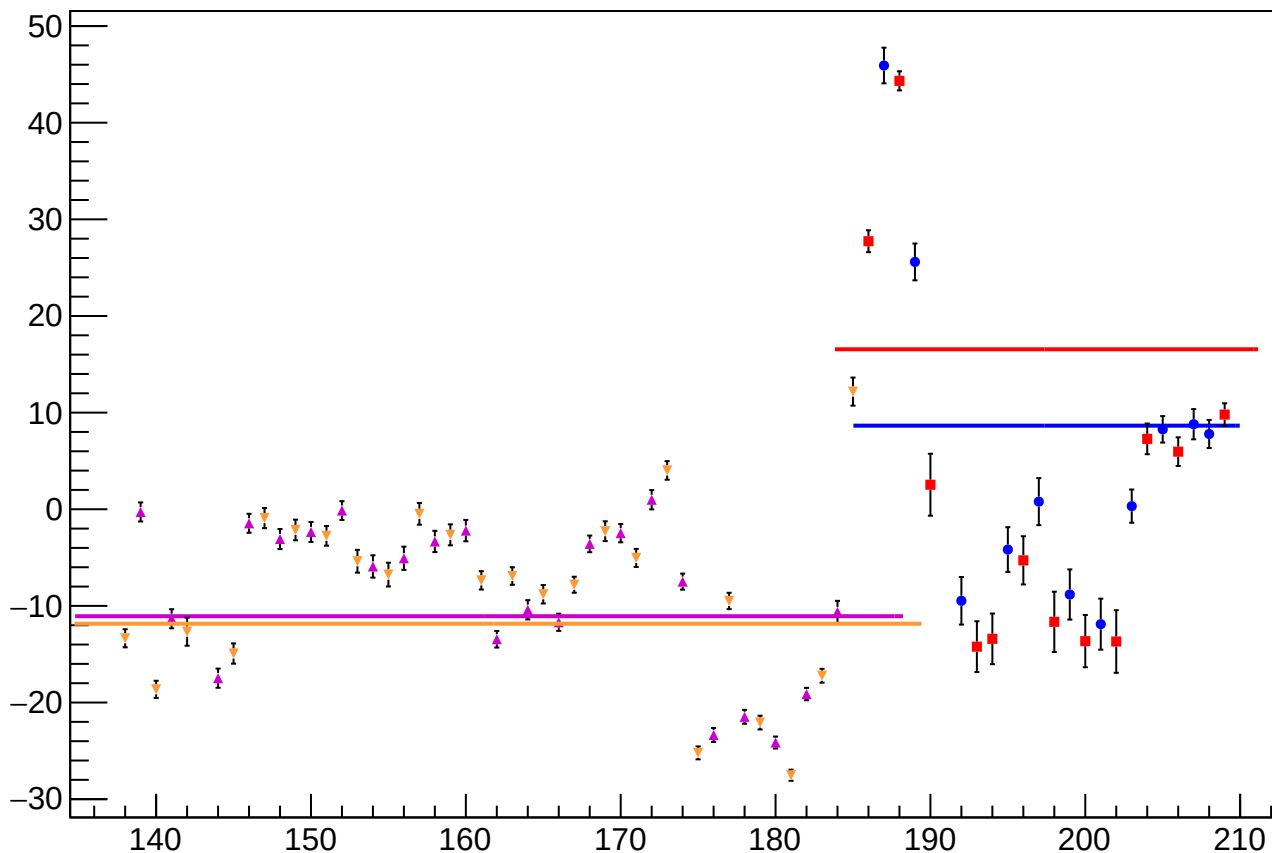
Right: -40.838 ± 0.015 χ^2/NDF : 99527.7/56

In: -39.588 ± 0.012 χ^2/NDF : 147215.7/49

Out: -40.098 ± 0.012 χ^2/NDF : 215046.5/53

All: -39.842 ± 0.008 χ^2/NDF : 363229.2/103

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



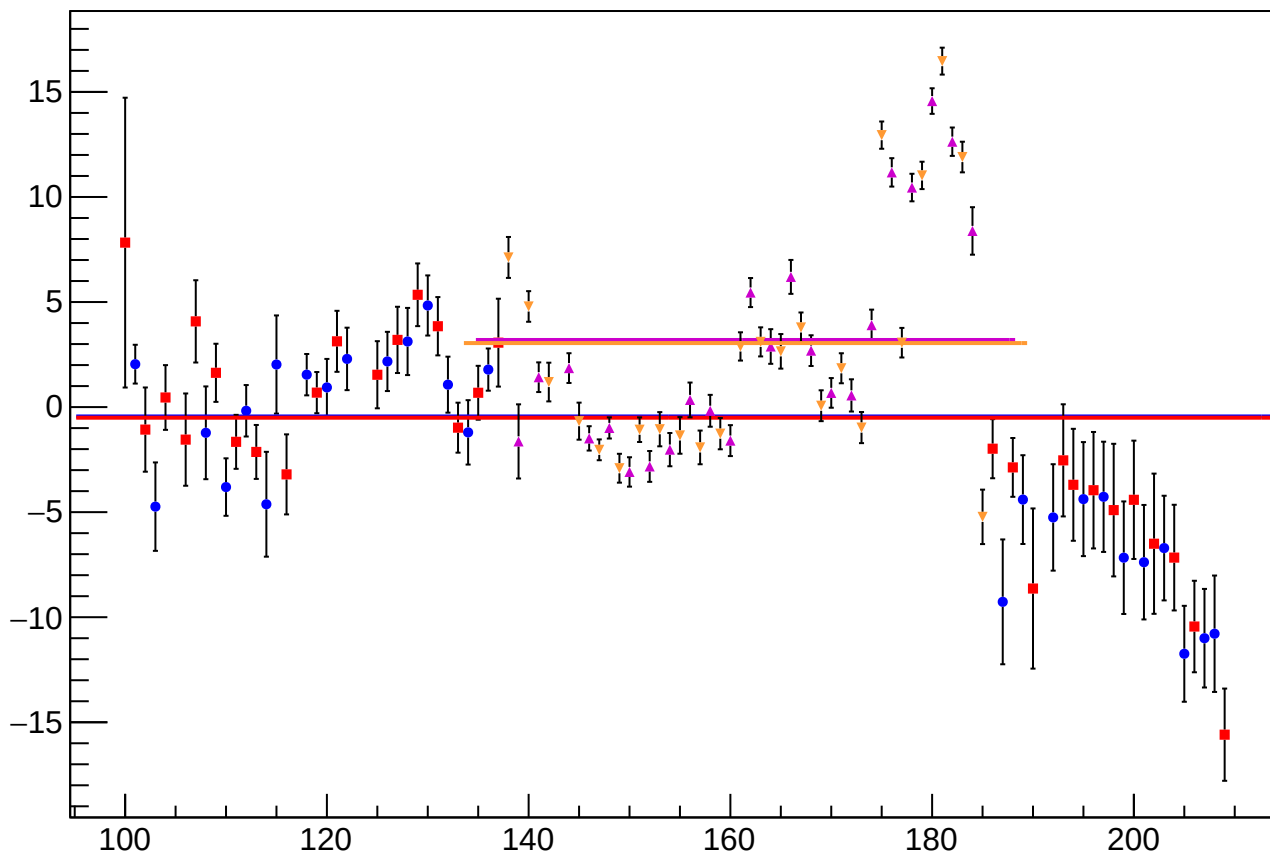
Right In: 8.650 ± 0.565 $\chi^2/\text{NDF}: 712.1/10$
 Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$
 Right Out: 16.555 ± 0.485 $\chi^2/\text{NDF}: 1659.9/11$
 Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$
 Right: 13.203 ± 0.368 $\chi^2/\text{NDF}: 2484.9/22$

In: -9.100 ± 0.178 $\chi^2/\text{NDF}: 3914.6/33$
 Out: -8.167 ± 0.174 $\chi^2/\text{NDF}: 7390.3/35$

All: -8.623 ± 0.125 $\chi^2/\text{NDF}: 11318.9/69$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.446 ± 0.312 χ^2/NDF : 156.5/26

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.504 ± 0.310 χ^2/NDF : 152.8/29

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

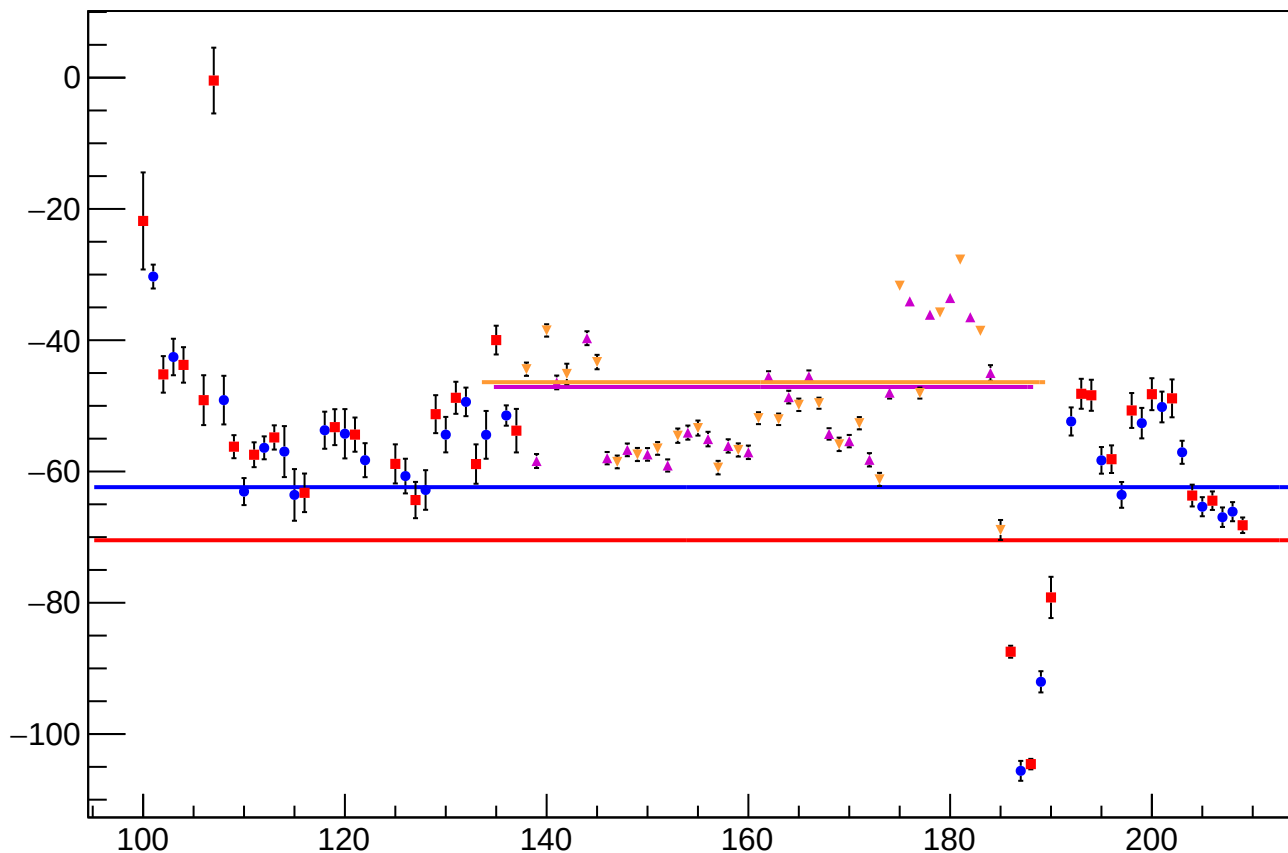
Right: -0.475 ± 0.220 χ^2/NDF : 309.3/56

In: 2.512 ± 0.135 χ^2/NDF : 1561.9/49

Out: 2.390 ± 0.133 χ^2/NDF : 1716.7/53

All: 2.450 ± 0.095 χ^2/NDF : 3279.0/103

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.387 ± 0.400 χ^2/NDF : 1754.5/26

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -70.476 ± 0.351 χ^2/NDF : 3730.0/29

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

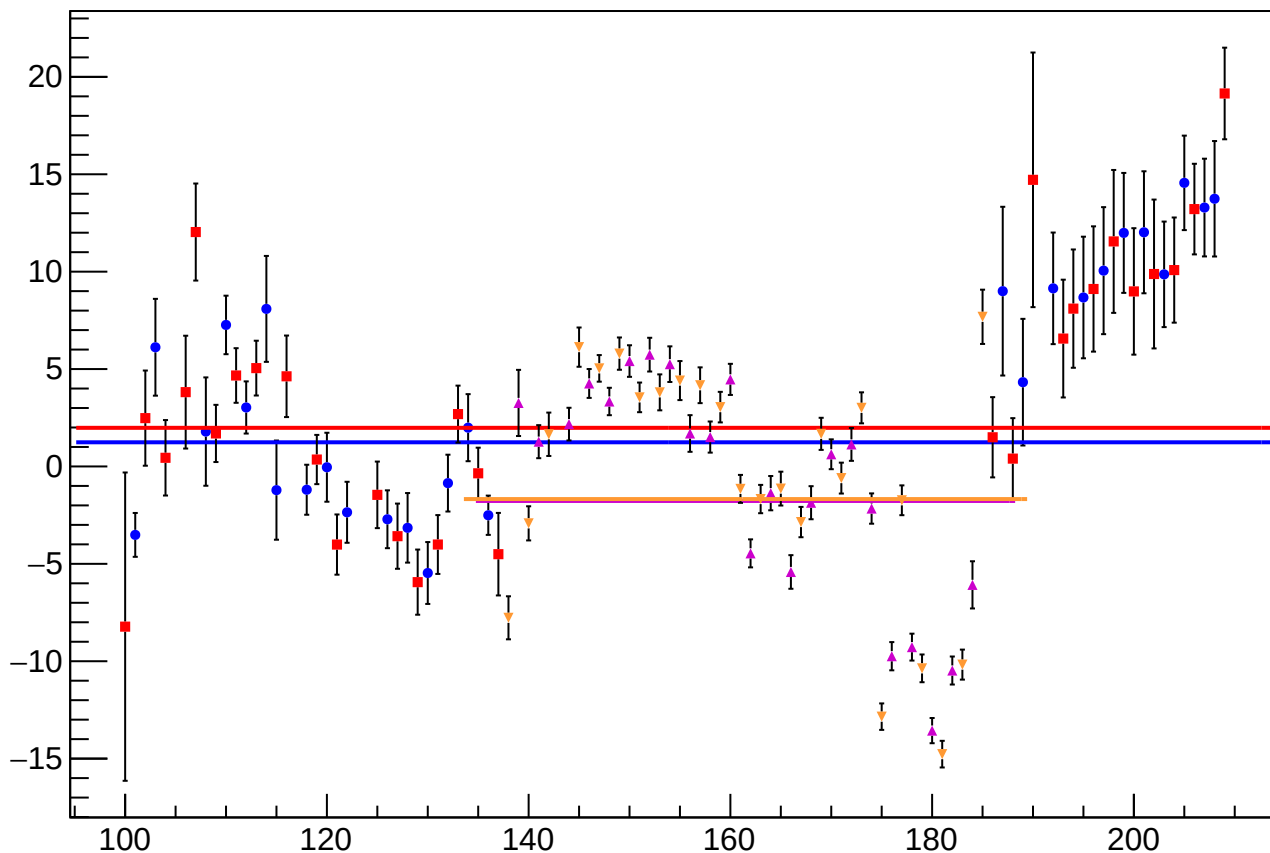
Right: -66.950 ± 0.264 χ^2/NDF : 5715.7/56

In: -49.874 ± 0.170 χ^2/NDF : 5466.7/49

Out: -51.693 ± 0.165 χ^2/NDF : 10684.4/53

All: -50.809 ± 0.118 χ^2/NDF : 16210.3/103

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.240 ± 0.356 χ^2/NDF : 233.2/26

Left Out: -1.675 ± 0.167 χ^2/NDF : 1483.8/23

Right Out: 1.983 ± 0.358 χ^2/NDF : 228.8/29

Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.723 ± 0.119 χ^2/NDF : 2735.2/46

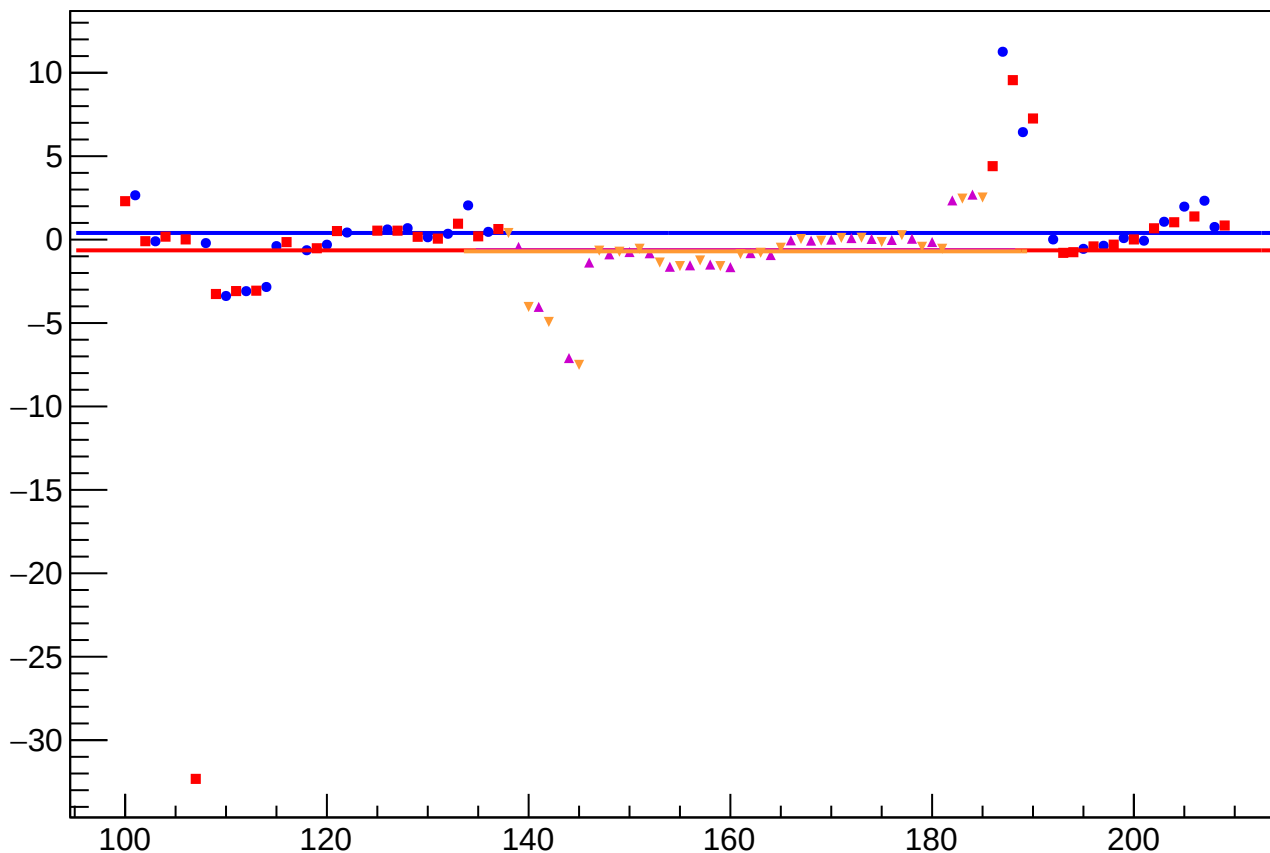
Right: 1.608 ± 0.252 χ^2/NDF : 464.2/56

In: -1.217 ± 0.153 χ^2/NDF : 1543.0/49

Out: -1.022 ± 0.151 χ^2/NDF : 1798.2/53

All: -1.119 ± 0.107 χ^2/NDF : 3342.0/103

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.399 ± 0.018 $\chi^2/\text{NDF}: 9957.3/26$

Left Out: -0.702 ± 0.008 $\chi^2/\text{NDF}: 53834.9/23$

Right Out: -0.644 ± 0.018 $\chi^2/\text{NDF}: 93552.2/29$

Left In: -0.644 ± 0.008 $\chi^2/\text{NDF}: 44169.2/22$

Left: -0.673 ± 0.005 $\chi^2/\text{NDF}: 98032.6/46$

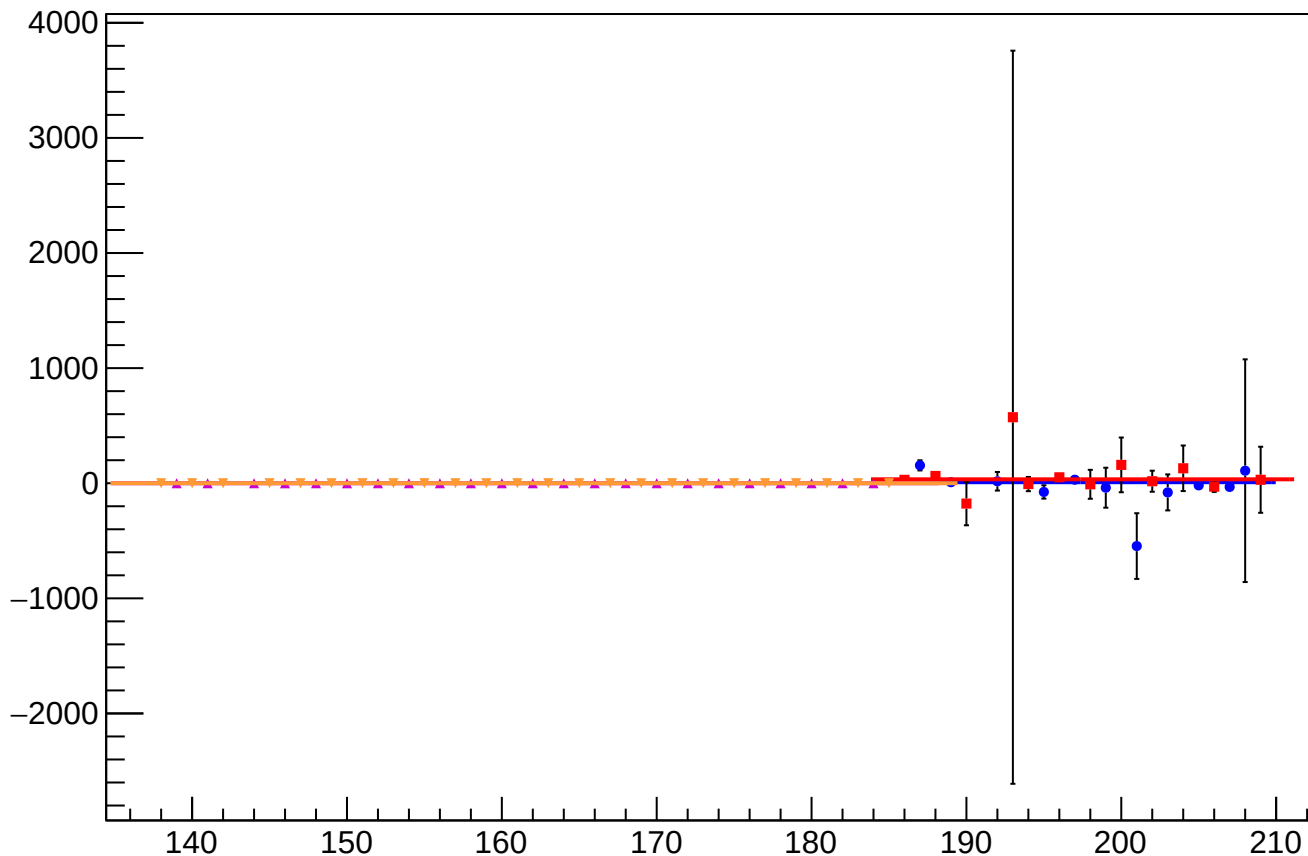
Right: -0.125 ± 0.013 $\chi^2/\text{NDF}: 105219.1/56$

In: -0.482 ± 0.007 $\chi^2/\text{NDF}: 57000.4/49$

Out: -0.693 ± 0.007 $\chi^2/\text{NDF}: 147396.1/53$

All: -0.588 ± 0.005 $\chi^2/\text{NDF}: 204846.0/103$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.021 ± 15.215 $\chi^2/\text{NDF}: 19.4/10$

Left Out: -0.037 ± 0.018 $\chi^2/\text{NDF}: 35.4/23$

Right Out: 33.987 ± 9.671 $\chi^2/\text{NDF}: 6.6/11$

Left In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.024 ± 0.013 $\chi^2/\text{NDF}: 71.7/46$

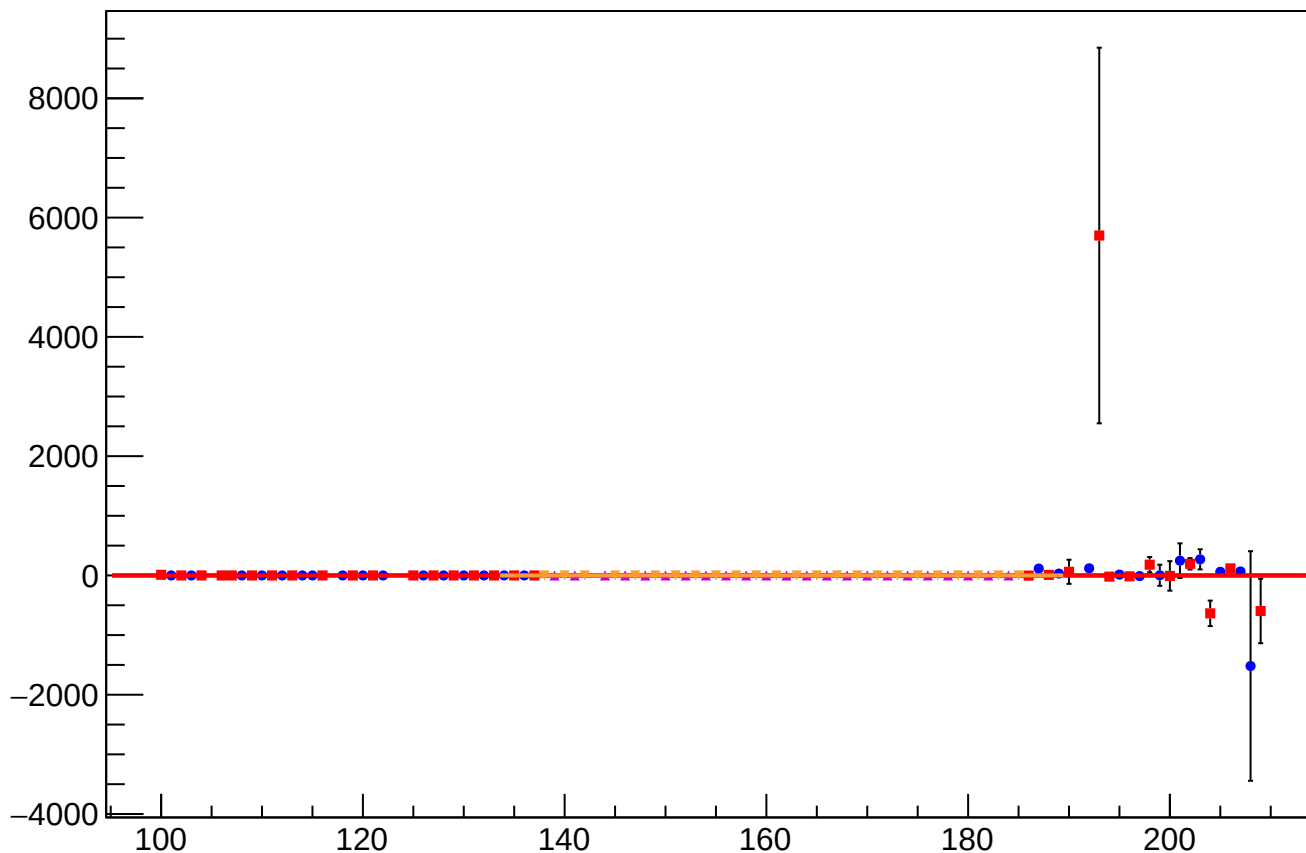
Right: 26.803 ± 8.162 $\chi^2/\text{NDF}: 27.9/22$

In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 54.9/33$

Out: -0.037 ± 0.018 $\chi^2/\text{NDF}: 54.4/35$

All: -0.024 ± 0.013 $\chi^2/\text{NDF}: 110.4/69$

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 $\pm$ 0.023 χ^2 /NDF: 24.1/26

Left Out: -0.073 $\pm$ 0.014 χ^2 /NDF: 27.8/23

Right Out: -0.088 $\pm$ 0.025 χ^2 /NDF: 36.0/29

Left In: -0.064 $\pm$ 0.014 χ^2 /NDF: 41.1/22

Left: -0.068 $\pm$ 0.010 χ^2 /NDF: 69.1/46

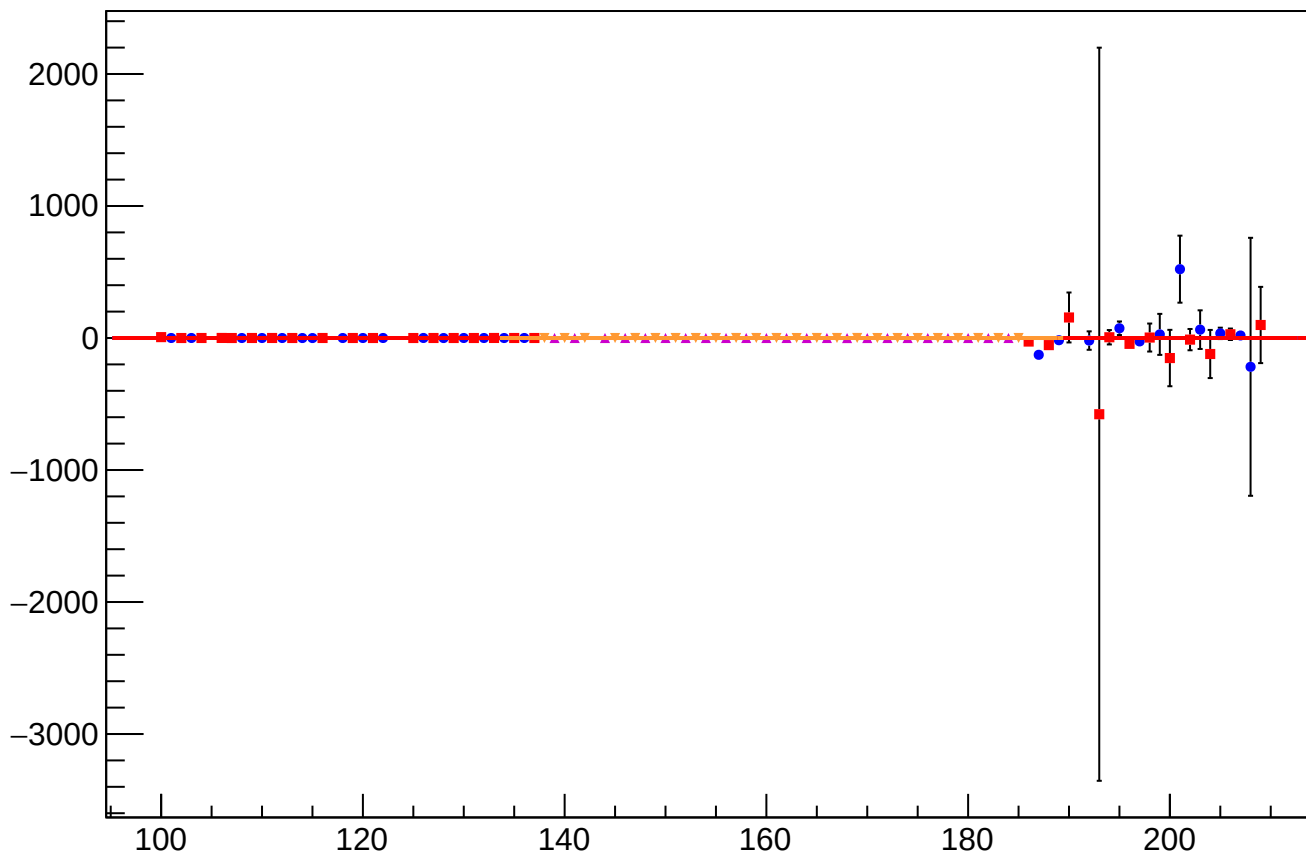
Right: -0.048 $\pm$ 0.017 χ^2 /NDF: 64.9/56

In: -0.050 $\pm$ 0.012 χ^2 /NDF: 68.6/49

Out: -0.076 $\pm$ 0.012 χ^2 /NDF: 64.1/53

All: -0.063 $\pm$ 0.009 χ^2 /NDF: 135.0/103

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 30.2/26

Left Out: 0.035 $\pm$ 0.018 χ^2 /NDF:32.2/23

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 30.8/29

Left In: -0.009 $\pm$ 0.018 χ^2 /NDF:36.8/22

Left: 0.013 $\pm$ 0.013 χ^2 /NDF: 72.0/46

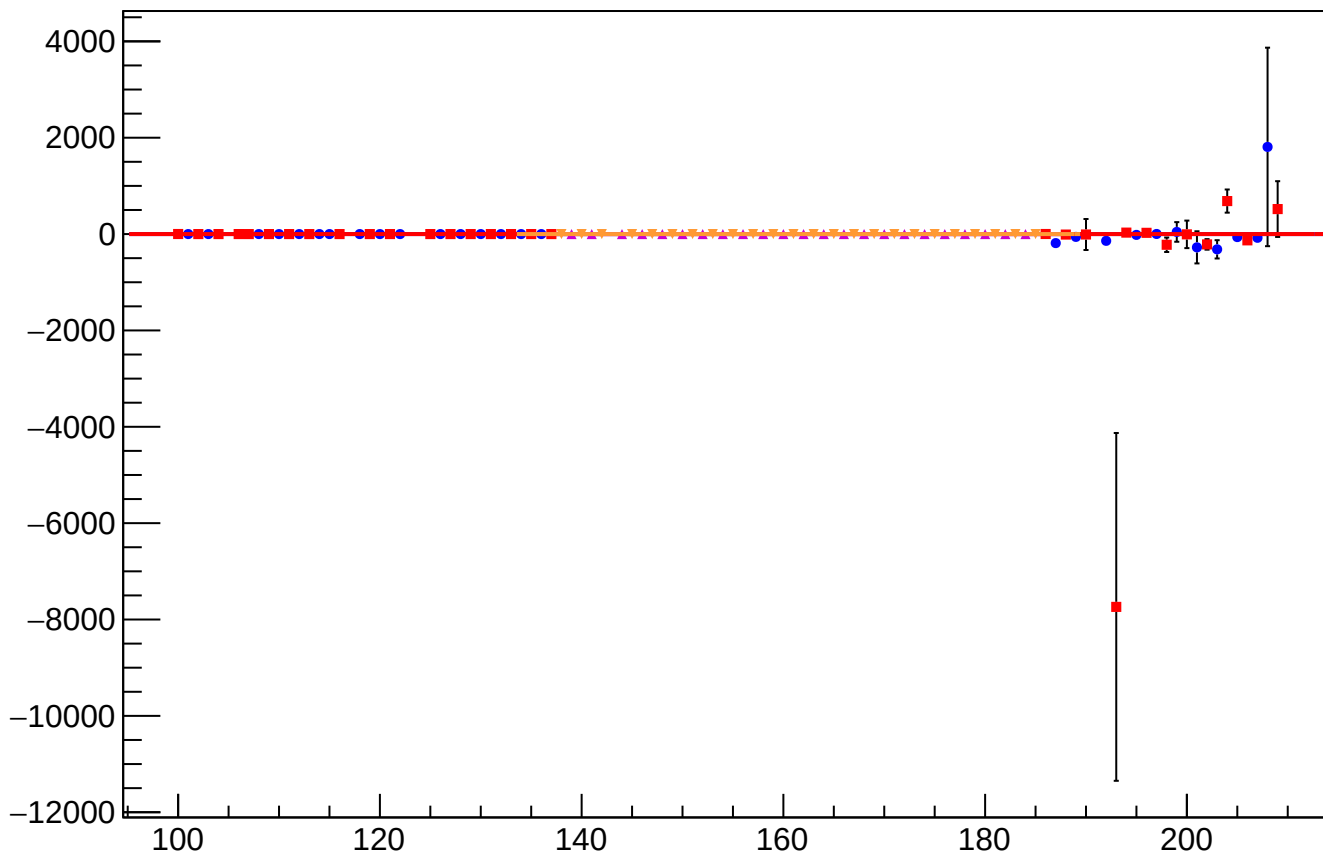
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 61.0/56

In: -0.005 $\pm$ 0.017 χ^2 /NDF:67.3/49

Out: 0.035 $\pm$ 0.017 χ^2 /NDF:63.0/53

All: 0.015 $\pm$ 0.012 χ^2 /NDF: 133.1/103

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 25.5/26

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 31.5/29

Left In: 0.070 $\pm$ 0.016 χ^2 /NDF:44.8/22

Left: 0.078 $\pm$ 0.011 χ^2 /NDF: 73.1/46

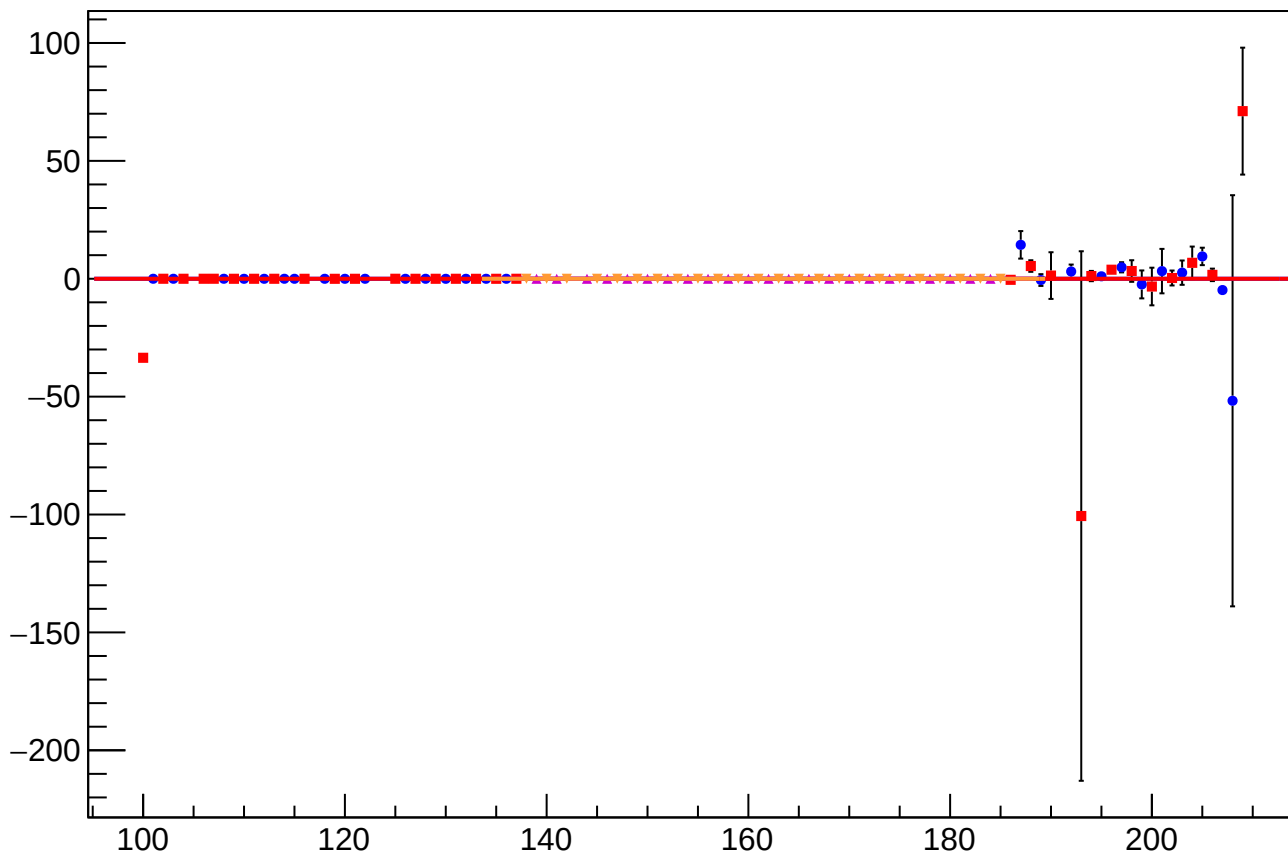
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 63.0/56

In: 0.053 $\pm$ 0.014 χ^2 /NDF:74.1/49

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:59.6/53

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 137.2/103

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 46.6/26

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26528.5/29

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

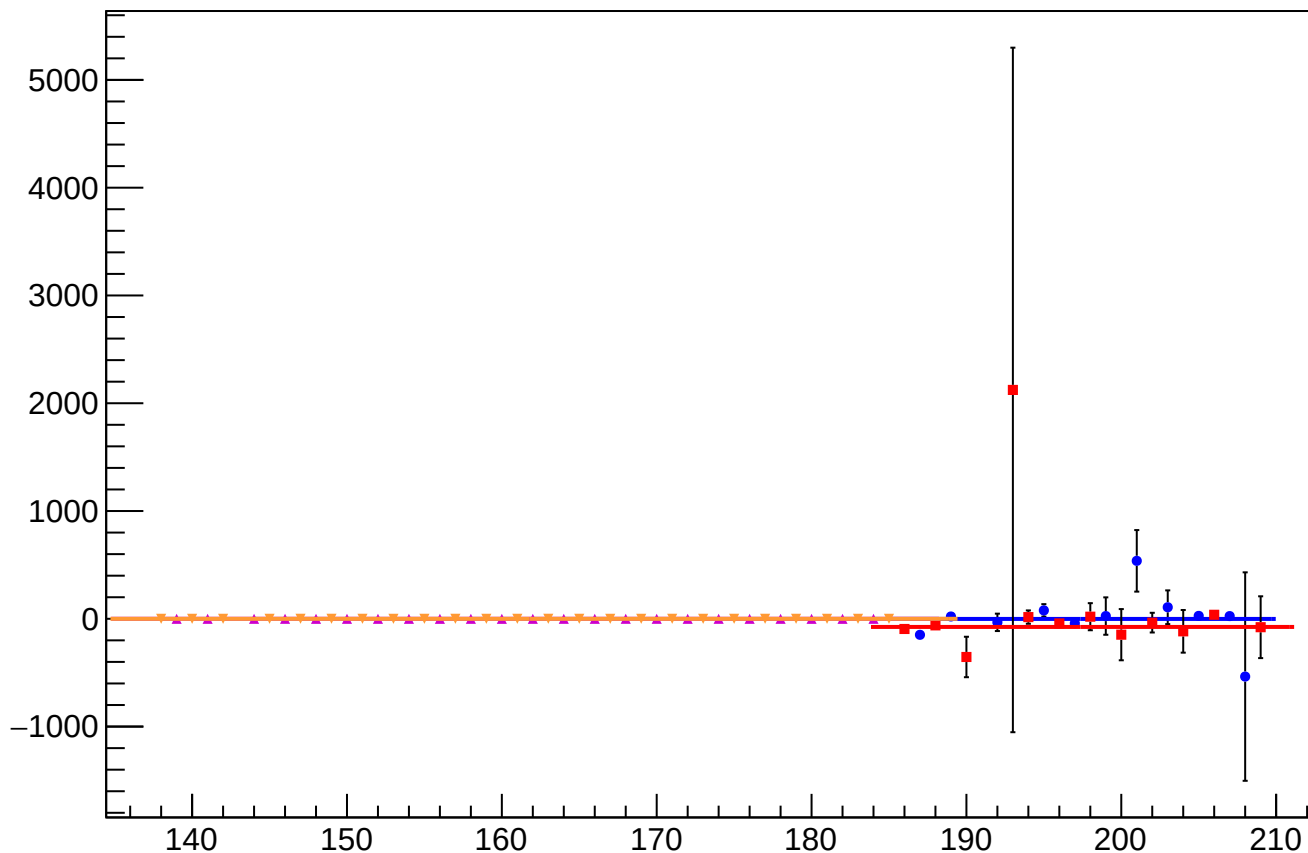
Right: -0.006 ± 0.001 χ^2/NDF : 26575.2/56

In: -0.001 ± 0.001 χ^2/NDF : 80.6/49

Out: -0.001 ± 0.001 χ^2/NDF : 26567.3/53

All: -0.001 ± 0.000 χ^2/NDF : 26647.9/103

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.222 ± 15.210 $\chi^2/\text{NDF}: 20.2/10$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -75.559 ± 9.673 $\chi^2/\text{NDF}: 15.3/11$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

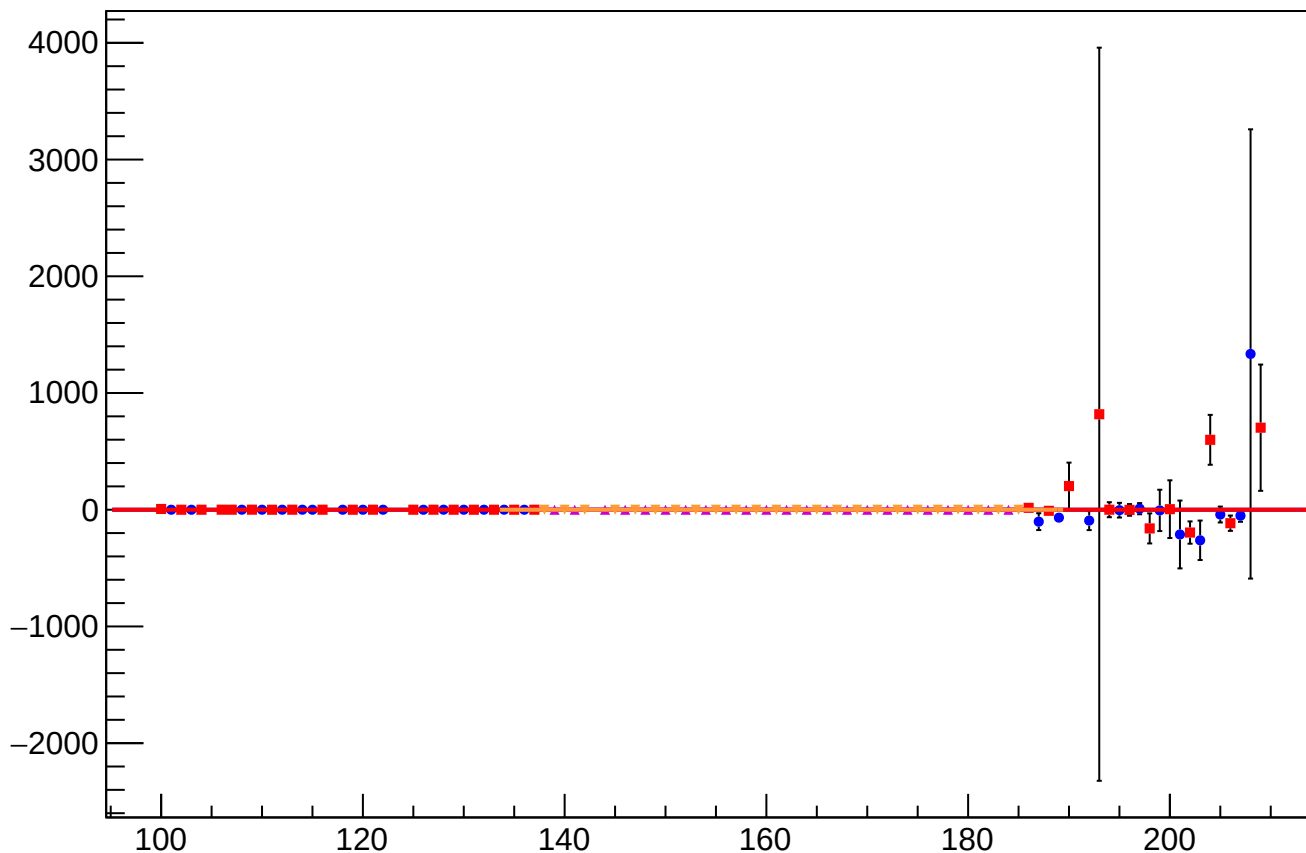
Right: -54.151 ± 8.163 $\chi^2/\text{NDF}: 52.5/22$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 55.3/33$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 113.6/35$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 171.8/69$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 37.7/26

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 49.4/29

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

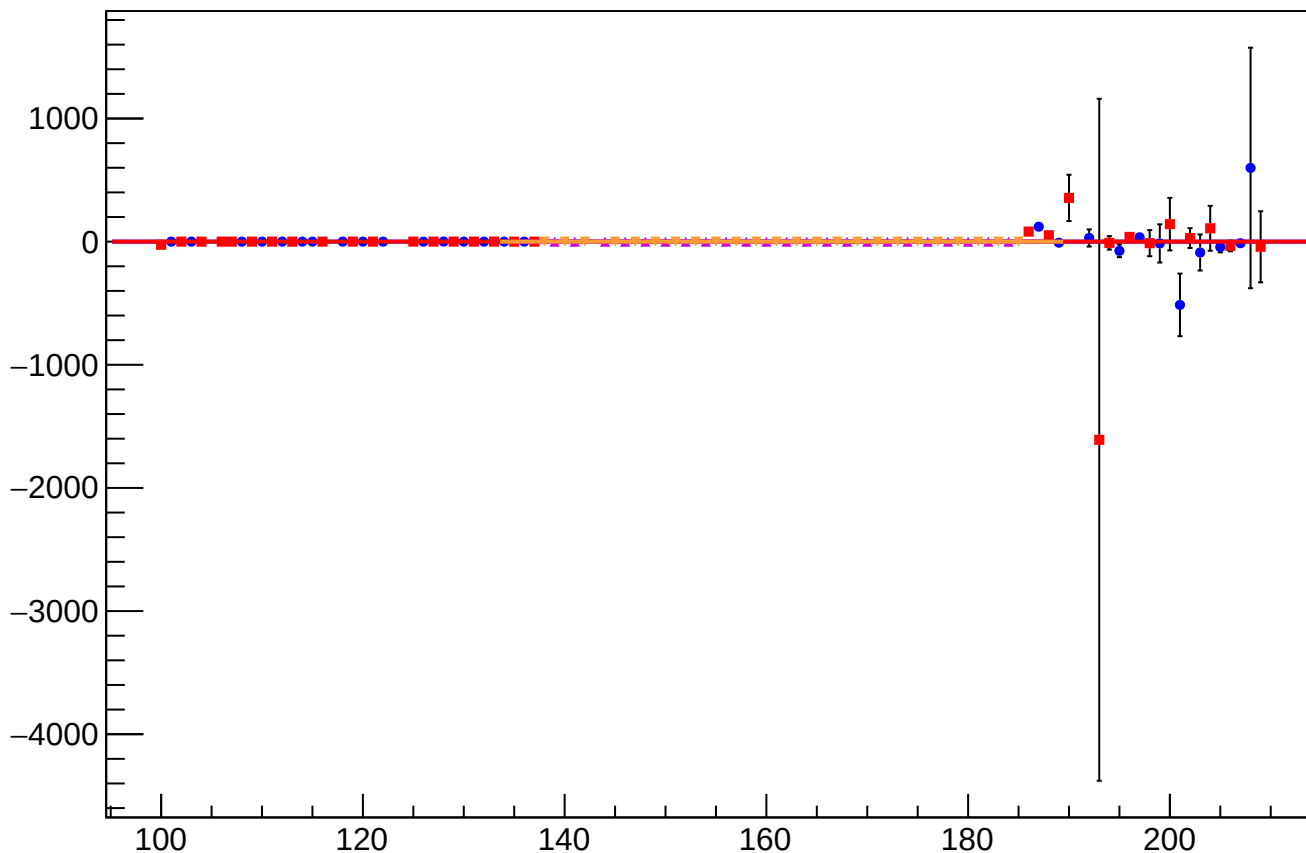
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 87.9/56

In: 0.006 $\pm$ 0.012 χ^2 /NDF:87.3/49

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:81.8/53

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 169.1/103

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 50.6/26

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 108.7/29

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

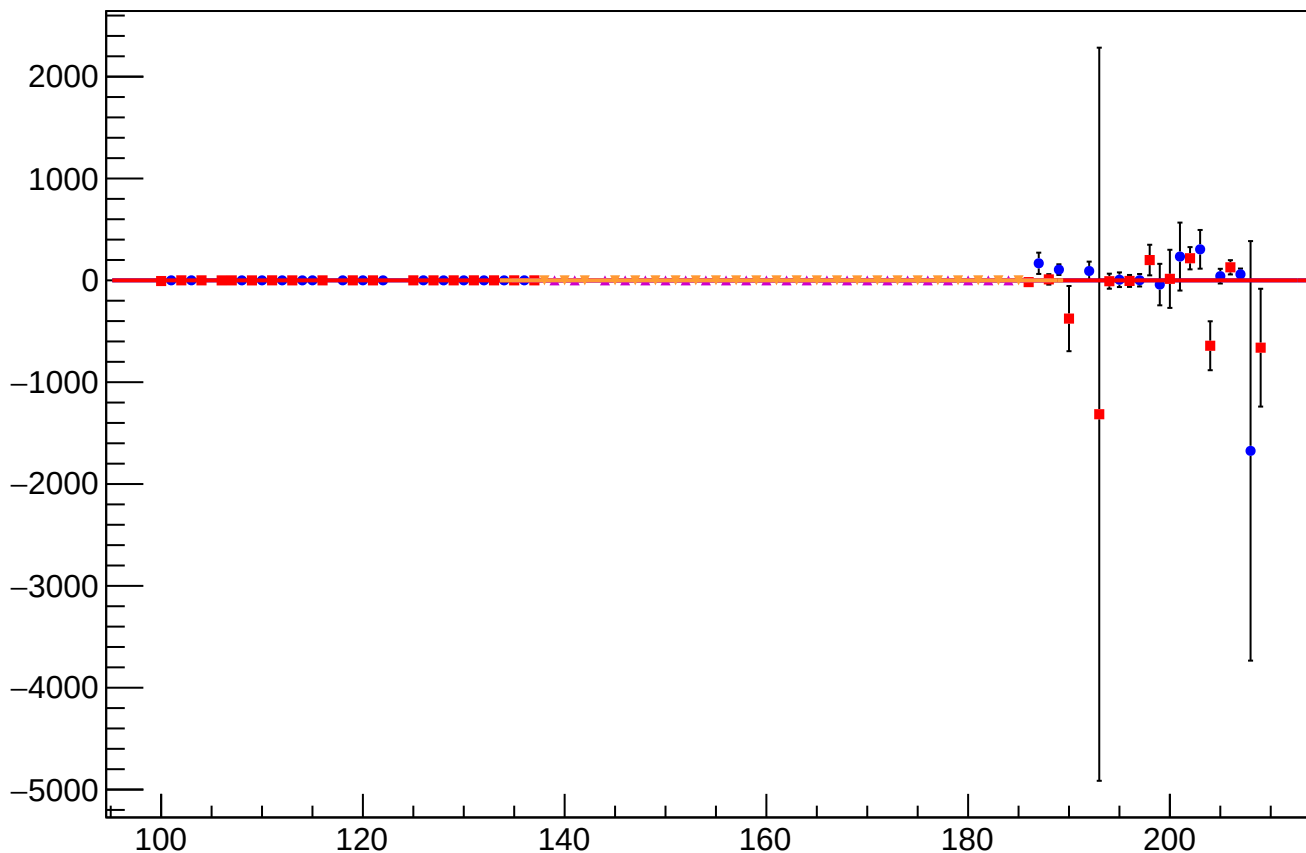
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 159.6/56

In: 0.040 $\pm$ 0.017 χ^2 /NDF:95.0/49

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:153.5/53

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 249.9/103

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 37.5/26

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 45.9/29

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

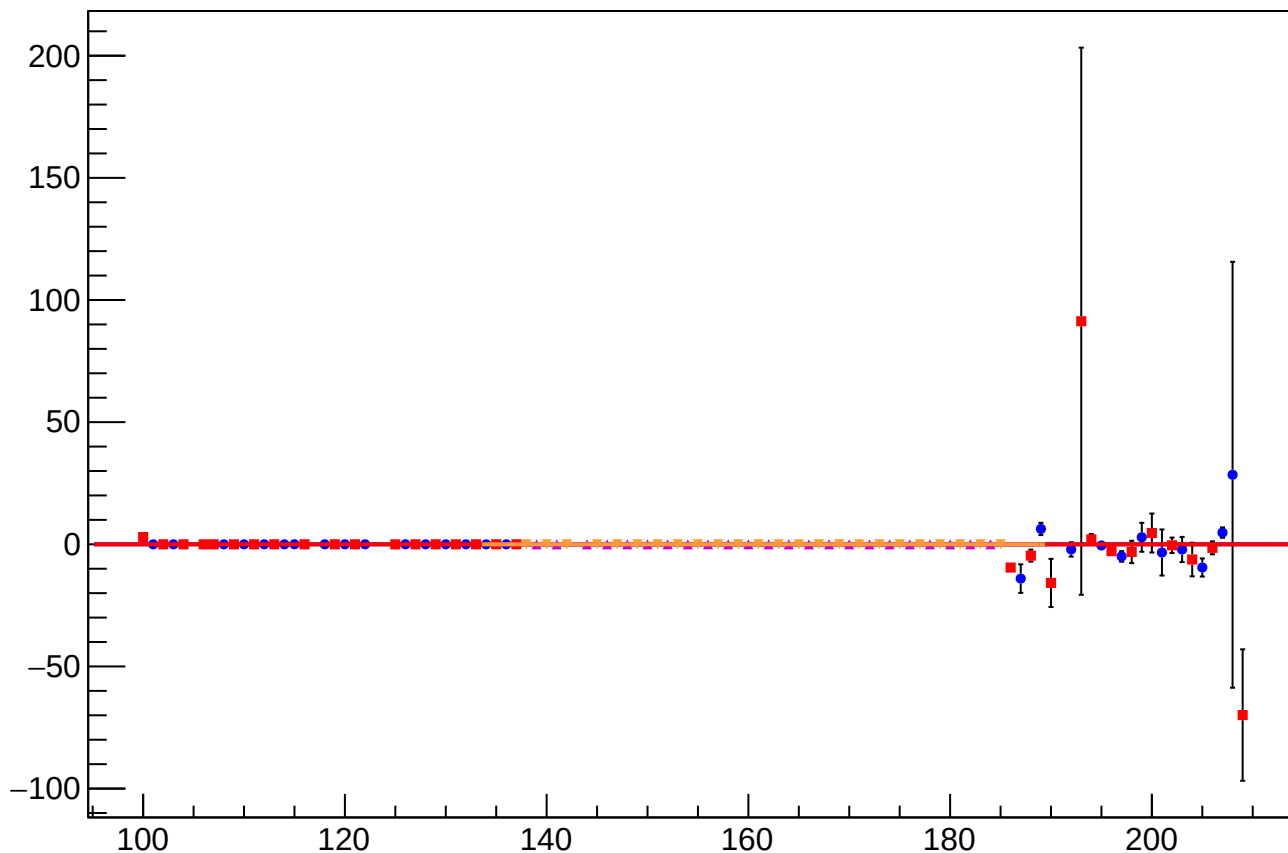
Right: -0.027 ± 0.020 χ^2/NDF : 84.3/56

In: 0.002 ± 0.014 χ^2/NDF : 87.9/49

Out: 0.005 ± 0.014 χ^2/NDF : 83.6/53

All: 0.004 ± 0.010 χ^2/NDF : 171.4/103

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 $\pm$ 0.001 χ^2 /NDF: 57.7/26

Left Out: -0.008 $\pm$ 0.001 χ^2 /NDF:32.0/23

Right Out: -0.006 $\pm$ 0.001 χ^2 /NDF: 221.6/29

Left In: -0.009 $\pm$ 0.001 χ^2 /NDF:37.2/22

Left: -0.008 $\pm$ 0.001 χ^2 /NDF: 69.4/46

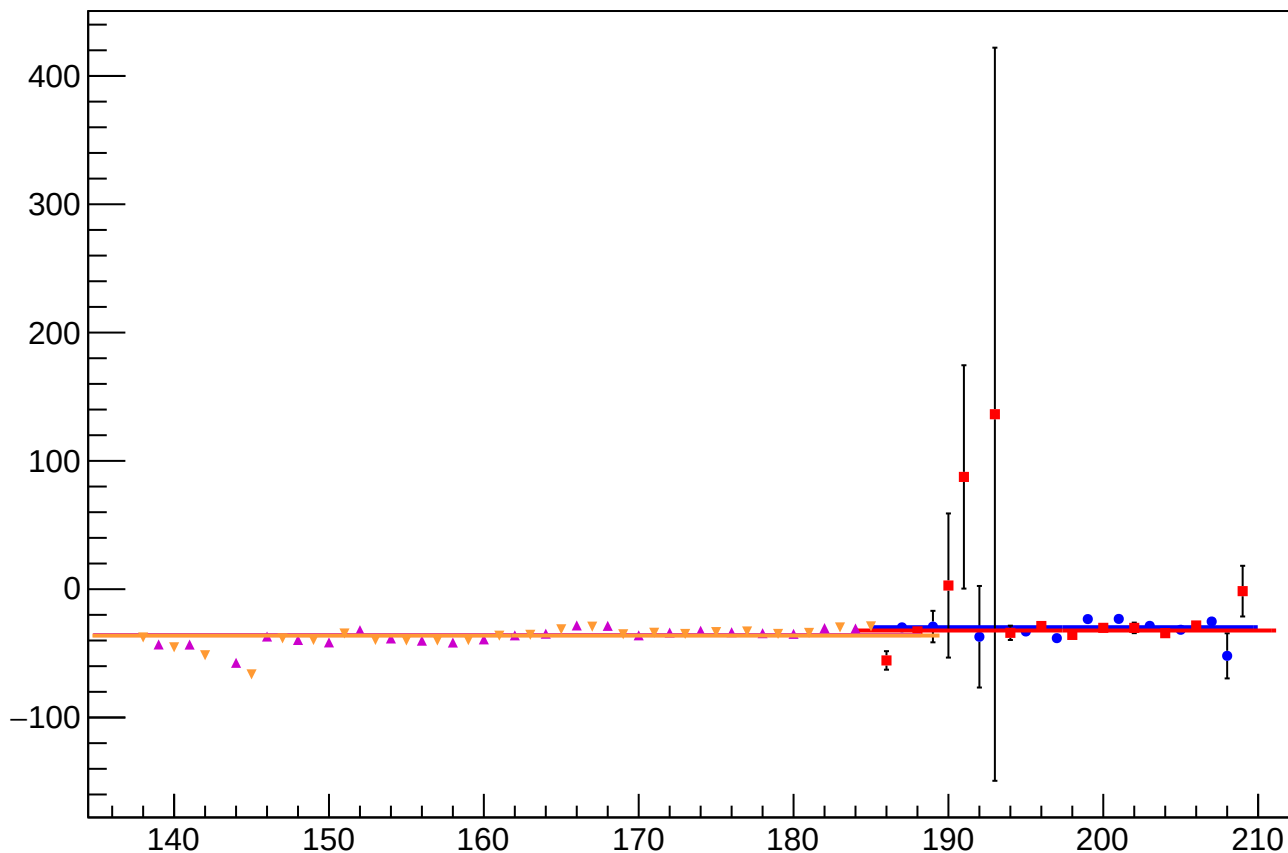
Right: -0.006 $\pm$ 0.001 χ^2 /NDF: 279.4/56

In: -0.008 $\pm$ 0.001 χ^2 /NDF:97.5/49

Out: -0.008 $\pm$ 0.001 χ^2 /NDF:255.6/53

All: -0.008 $\pm$ 0.000 χ^2 /NDF: 353.3/103

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.629 ± 0.858 χ^2/NDF : 25.7/10

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -32.202 ± 0.808 χ^2/NDF : 23.2/12

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

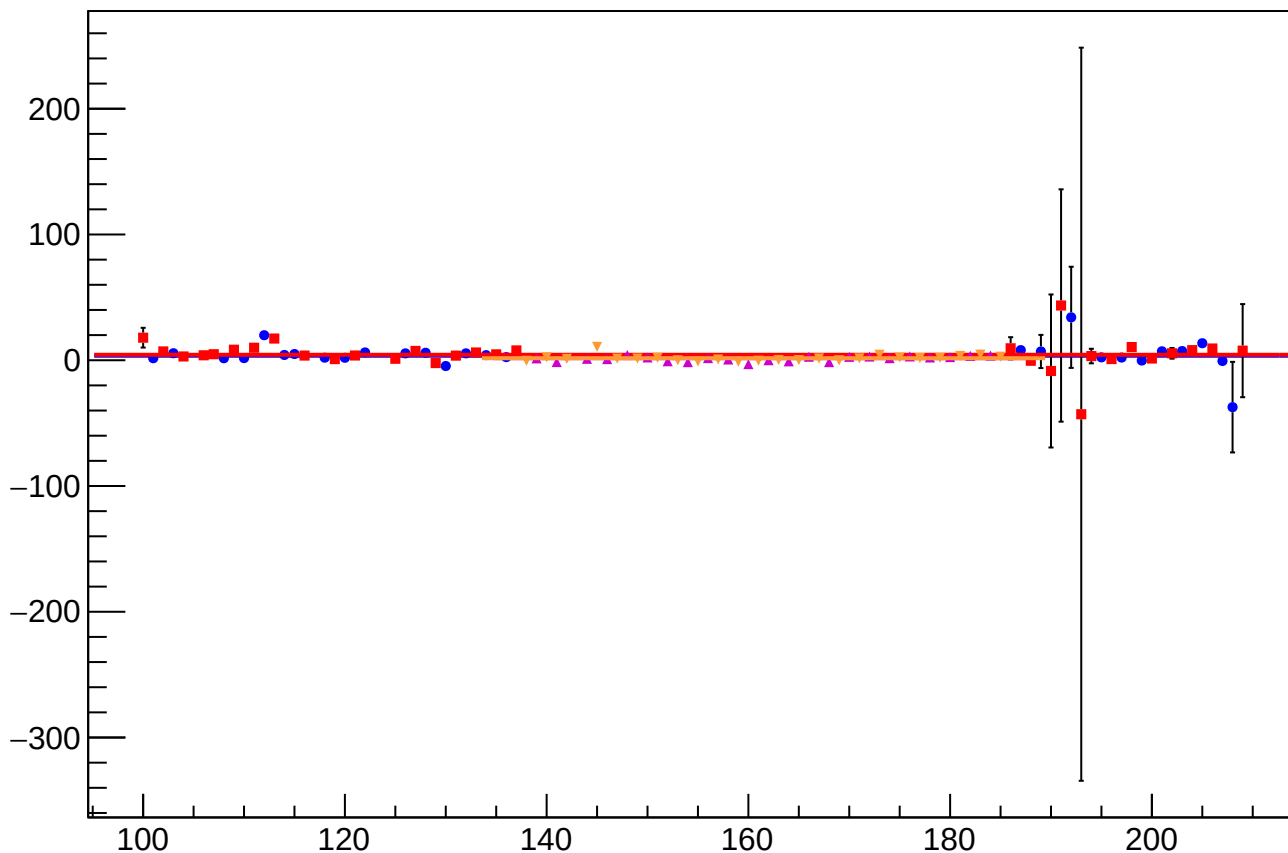
Right: -30.993 ± 0.588 χ^2/NDF : 53.6/23

In: -35.488 ± 0.187 χ^2/NDF : 928.7/33

Out: -35.911 ± 0.187 χ^2/NDF : 1160.3/36

All: -35.700 ± 0.132 χ^2/NDF : 2091.6/70

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.600 ± 0.217 χ^2/NDF : 458.2/26

Left Out: 1.634 ± 0.148 χ^2/NDF : 166.5/23

Right Out: 4.349 ± 0.221 χ^2/NDF : 369.0/30

Left In: 1.641 ± 0.150 χ^2/NDF : 163.2/22

Left: 1.638 ± 0.105 χ^2/NDF : 329.7/46

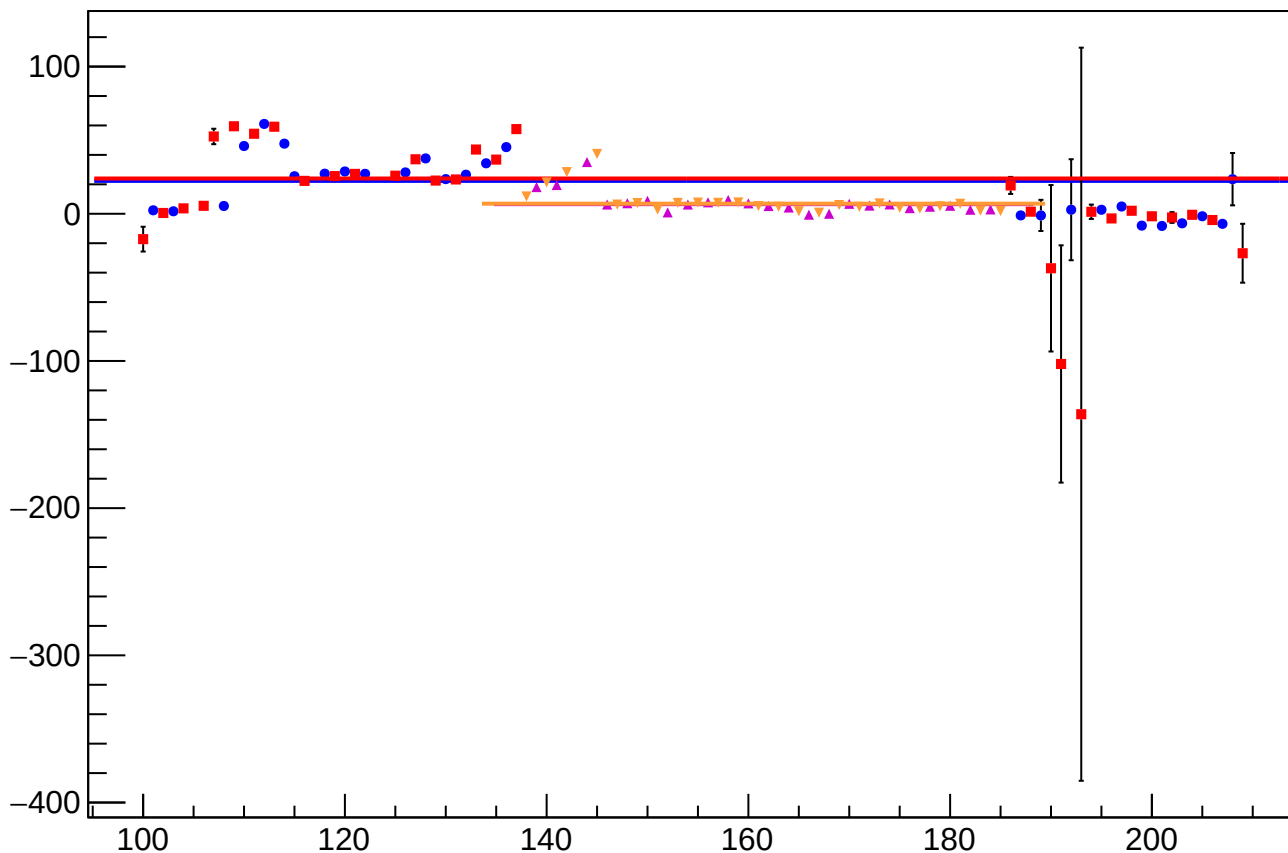
Right: 3.967 ± 0.155 χ^2/NDF : 833.0/57

In: 2.273 ± 0.123 χ^2/NDF : 676.7/49

Out: 2.475 ± 0.123 χ^2/NDF : 640.0/54

All: 2.374 ± 0.087 χ^2/NDF : 1318.1/104

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.348 $\pm$ 0.370 χ^2 /NDF: 2806.1/26

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 23.965 $\pm$ 0.362 χ^2 /NDF: 3290.1/30

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

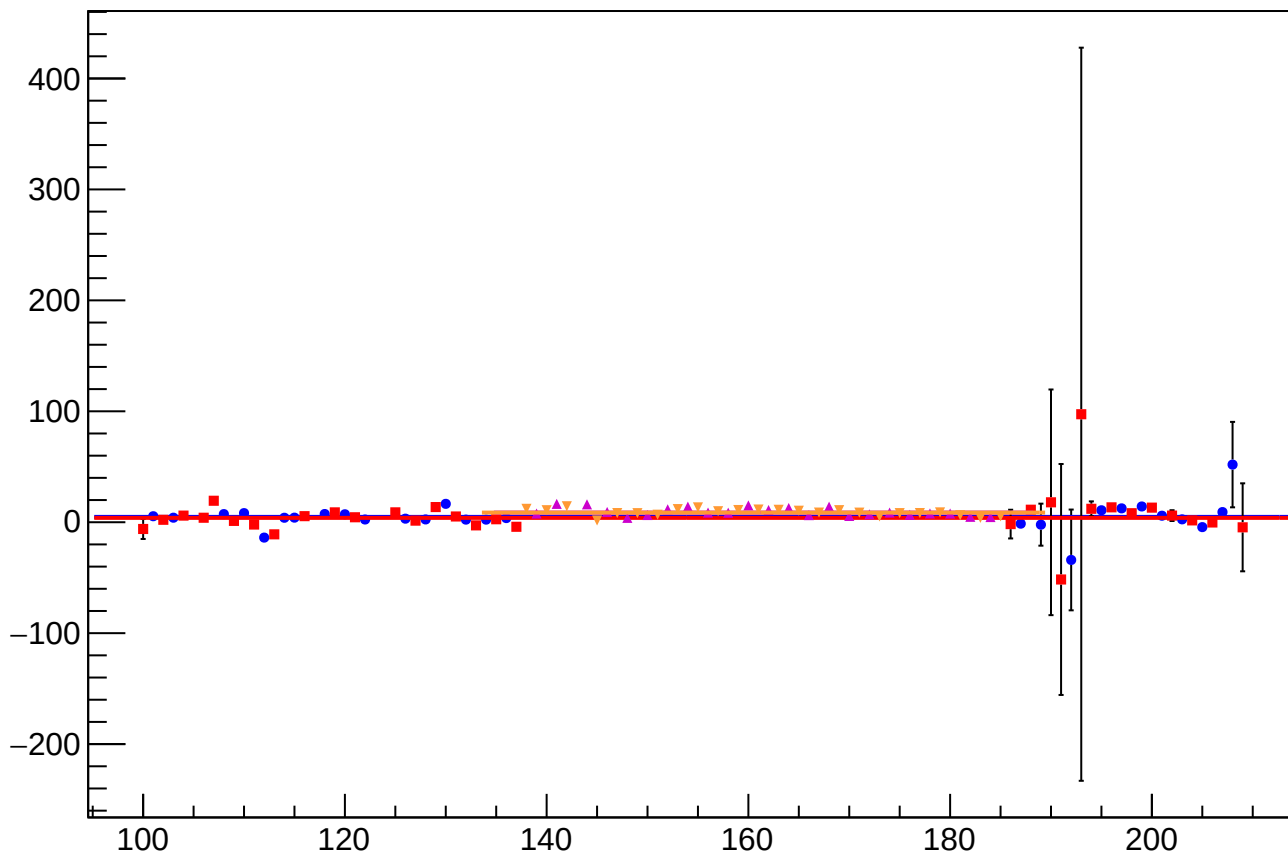
Right: 23.175 $\pm$ 0.259 χ^2 /NDF: 6106.0/57

In: 9.847 $\pm$ 0.169 χ^2 /NDF:5275.2/49

Out: 10.605 $\pm$ 0.169 χ^2 /NDF:6331.0/54

All: 10.226 $\pm$ 0.120 χ^2 /NDF: 11616.3/104

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.807 $\pm$ 0.250 χ^2 /NDF: 572.7/26

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.937 $\pm$ 0.254 χ^2 /NDF: 589.1/30

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF:436.7/22

Left: 8.681 $\pm$ 0.120 χ^2 /NDF: 677.7/46

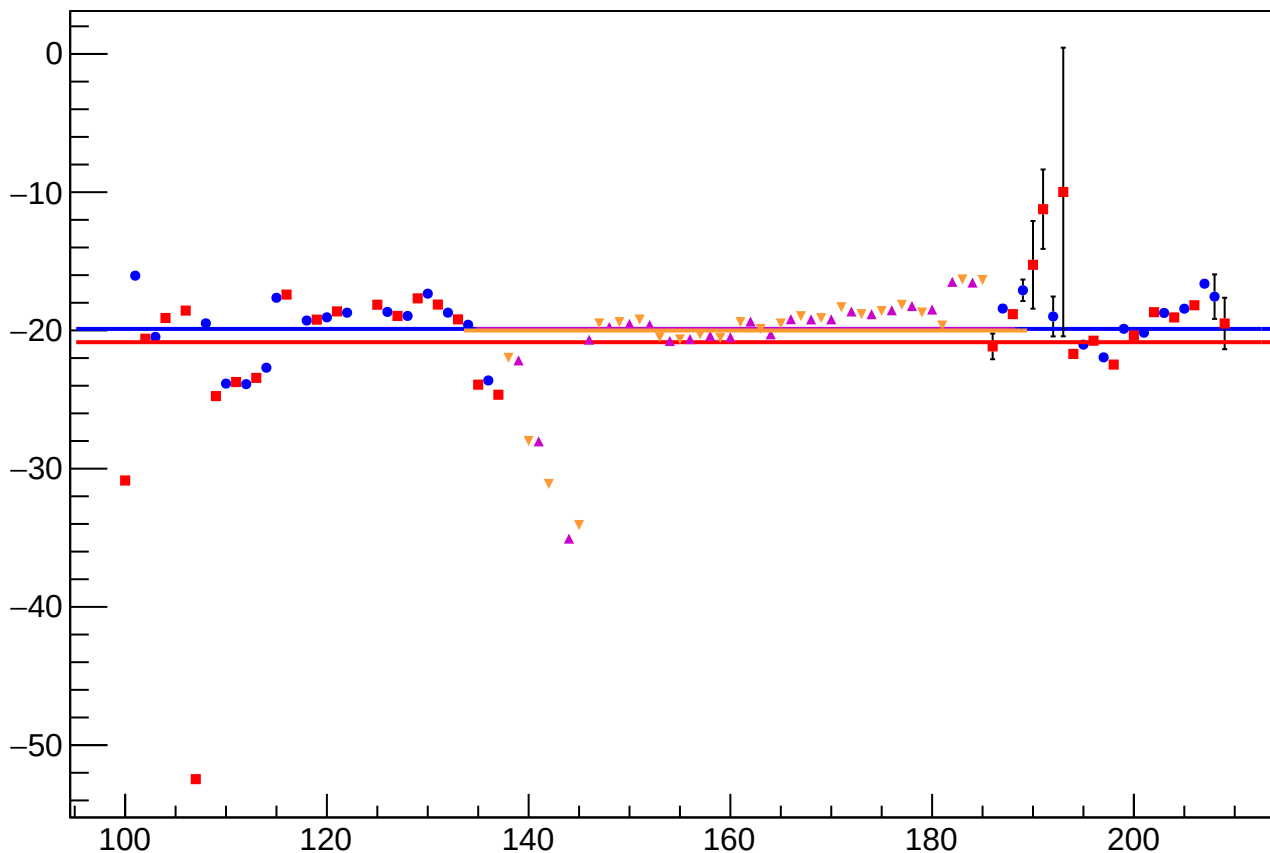
Right: 4.380 $\pm$ 0.178 χ^2 /NDF: 1167.8/57

In: 7.446 $\pm$ 0.141 χ^2 /NDF:1172.4/49

Out: 7.238 $\pm$ 0.141 χ^2 /NDF:1072.9/54

All: 7.342 $\pm$ 0.099 χ^2 /NDF: 2246.4/104

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.889 $\pm$ 0.015 χ^2 /NDF: 27143.1/26

Left Out: -20.006 $\pm$ 0.008 χ^2 /NDF:171763.9/23

Right Out: -20.852 $\pm$ 0.015 χ^2 /NDF: 95238.7/30

Left In: -19.898 $\pm$ 0.008 χ^2 /NDF:144191.9/22

Left: -19.951 $\pm$ 0.006 χ^2 /NDF: 316049.4/46

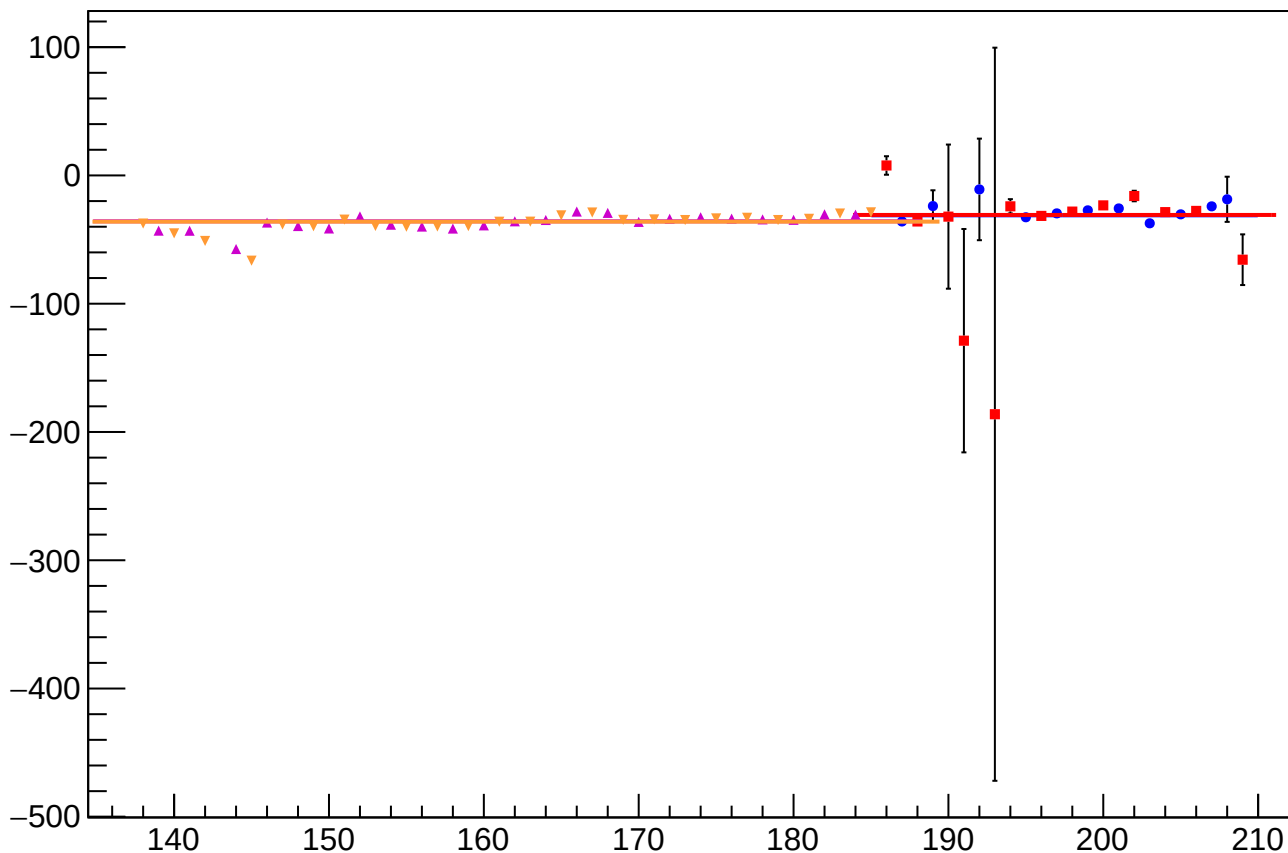
Right: -20.368 $\pm$ 0.011 χ^2 /NDF: 124470.9/57

In: -19.896 $\pm$ 0.007 χ^2 /NDF:171335.3/49

Out: -20.190 $\pm$ 0.007 χ^2 /NDF:269511.6/54

All: -20.042 $\pm$ 0.005 χ^2 /NDF: 441741.6/104

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.090 ± 0.861 $\chi^2/\text{NDF}: 28.0/10$

Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$

Right Out: -30.814 ± 0.810 $\chi^2/\text{NDF}: 75.1/12$

Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$

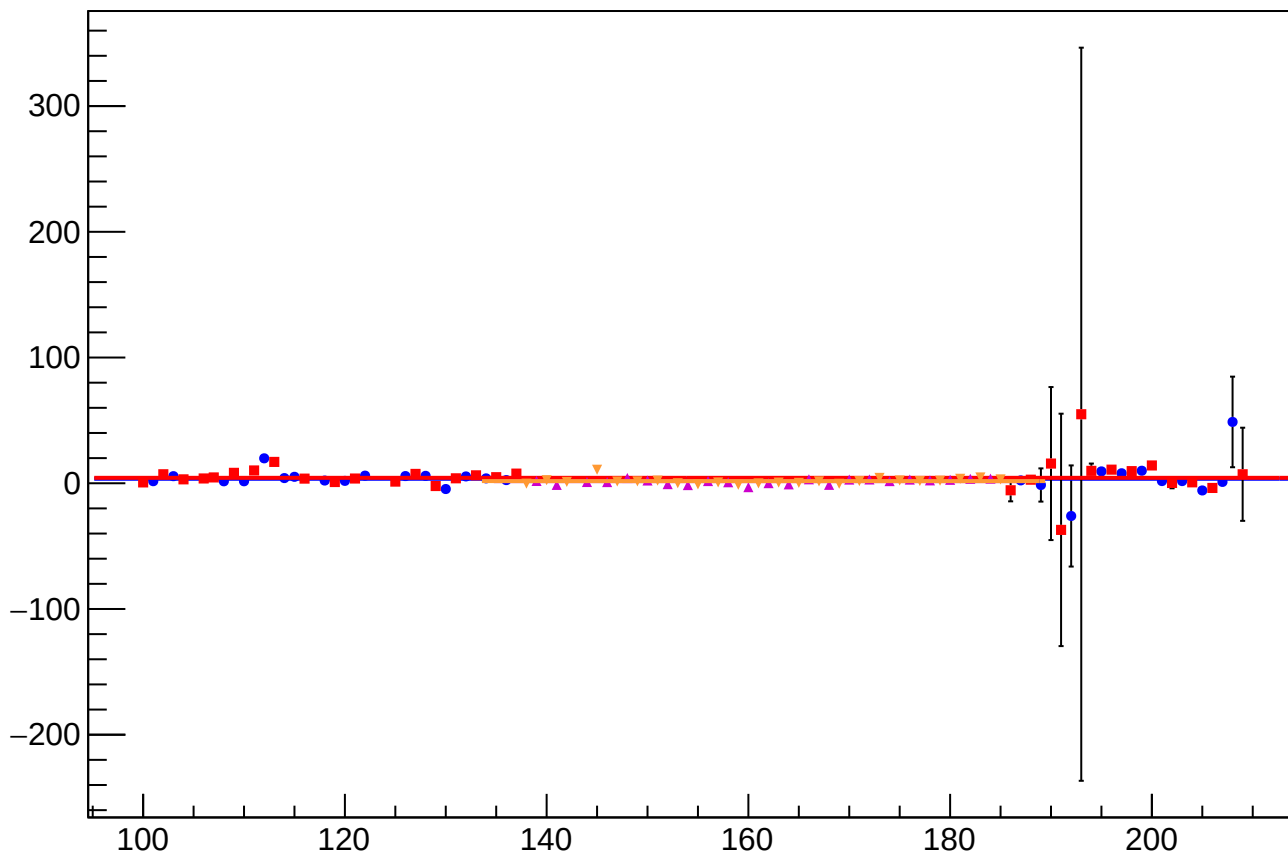
Right: -30.944 ± 0.590 $\chi^2/\text{NDF}: 103.1/23$

In: -35.546 ± 0.187 $\chi^2/\text{NDF}: 898.7/33$

Out: -35.754 ± 0.187 $\chi^2/\text{NDF}: 1235.6/36$

All: -35.650 ± 0.132 $\chi^2/\text{NDF}: 2134.9/70$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.570 $\pm$ 0.217 χ^2 /NDF: 457.6/26

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.321 $\pm$ 0.217 χ^2 /NDF: 378.3/30

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

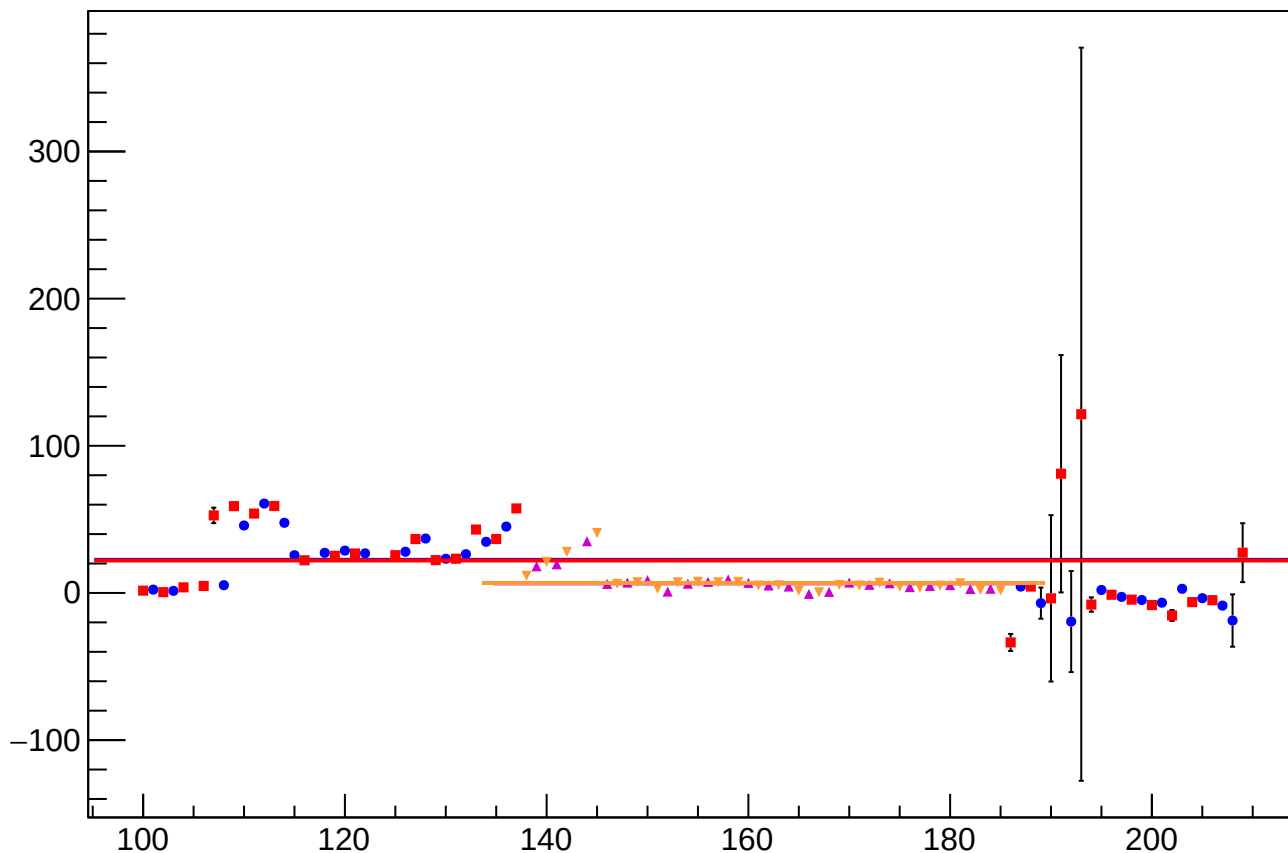
Right: 3.945 $\pm$ 0.153 χ^2 /NDF: 841.8/57

In: 2.306 $\pm$ 0.123 χ^2 /NDF:670.8/49

Out: 2.546 $\pm$ 0.122 χ^2 /NDF:644.3/54

All: 2.427 $\pm$ 0.087 χ^2 /NDF: 1317.0/104

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.493 $\pm$ 0.370 χ^2 /NDF: 2699.6/26

Left Out: 6.779 $\pm$ 0.191 χ^2 /NDF:1297.7/23

Right Out: 22.064 $\pm$ 0.349 χ^2 /NDF: 3659.2/30

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

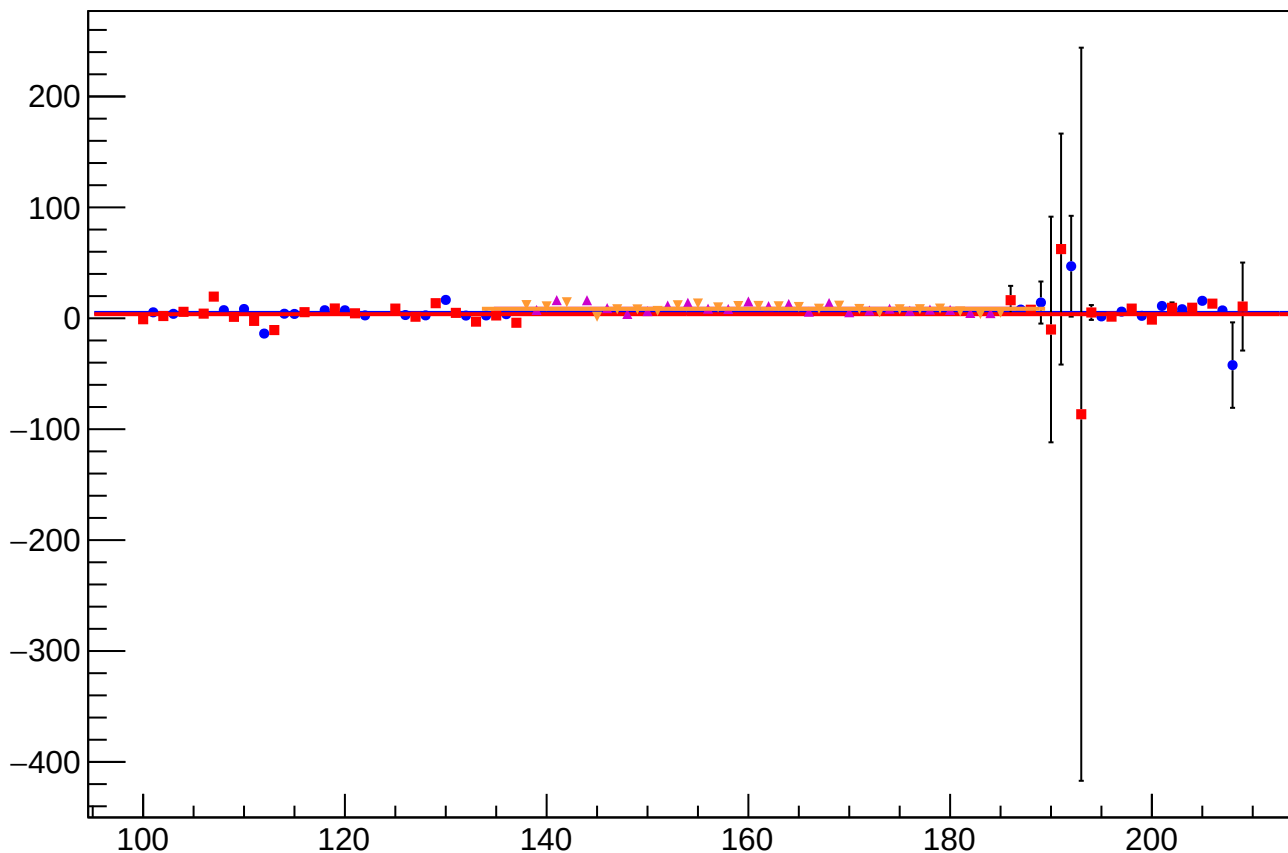
Right: 22.266 $\pm$ 0.254 χ^2 /NDF: 6359.6/57

In: 9.870 $\pm$ 0.169 χ^2 /NDF:5189.2/49

Out: 10.310 $\pm$ 0.168 χ^2 /NDF:6431.9/54

All: 10.092 $\pm$ 0.119 χ^2 /NDF: 11624.5/104

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.845 $\pm$ 0.250 χ^2 /NDF: 560.4/26

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF:245.5/23

Right Out: 3.698 $\pm$ 0.250 χ^2 /NDF: 589.0/30

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

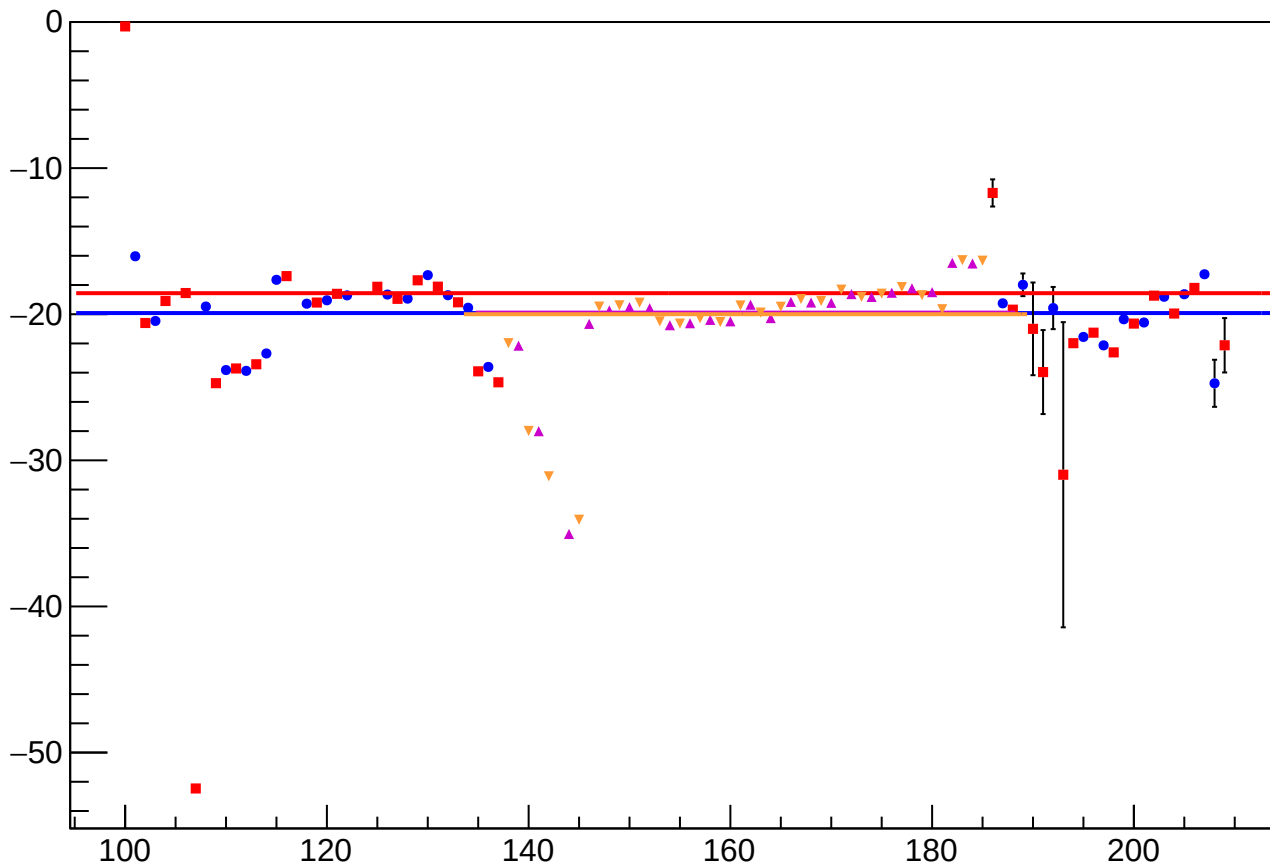
Right: 4.272 $\pm$ 0.177 χ^2 /NDF: 1159.9/57

In: 7.401 $\pm$ 0.141 χ^2 /NDF:1155.3/49

Out: 7.055 $\pm$ 0.140 χ^2 /NDF:1096.7/54

All: 7.227 $\pm$ 0.099 χ^2 /NDF: 2255.0/104

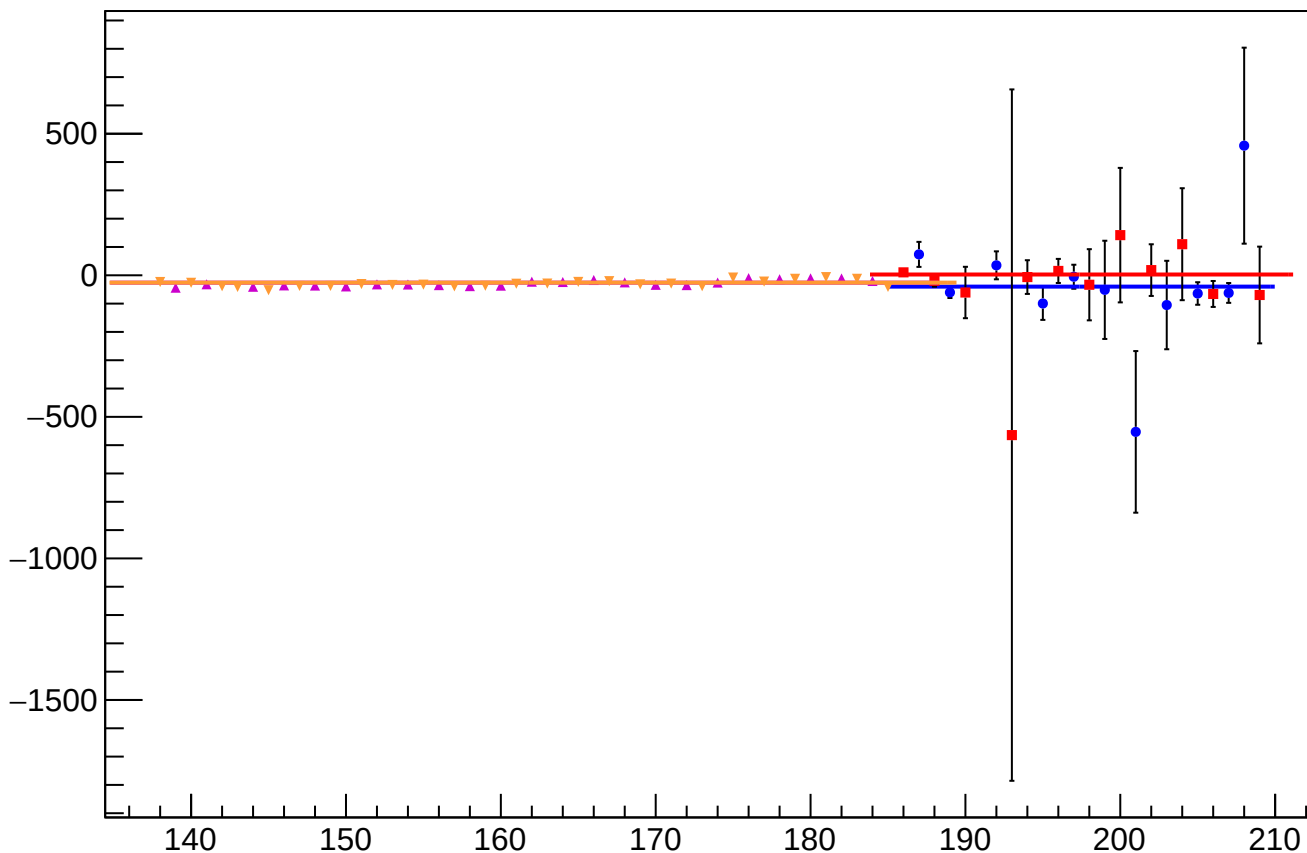
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.920 ± 0.015 $\chi^2/\text{NDF}: 27097.2/26$
 Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$
 Right Out: -18.559 ± 0.014 $\chi^2/\text{NDF}: 303727.8/30$
 Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.944 ± 0.006 $\chi^2/\text{NDF}: 316093.4/46$
 Right: -19.205 ± 0.010 $\chi^2/\text{NDF}: 335245.4/57$
 In: -19.897 ± 0.007 $\chi^2/\text{NDF}: 171155.5/49$
 Out: -19.655 ± 0.007 $\chi^2/\text{NDF}: 483603.9/54$
 All: -19.775 ± 0.005 $\chi^2/\text{NDF}: 655373.1/104$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -39.998 ± 13.050 χ^2/NDF : 18.0/10

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 2.797 ± 8.111 χ^2/NDF : 5.8/11

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

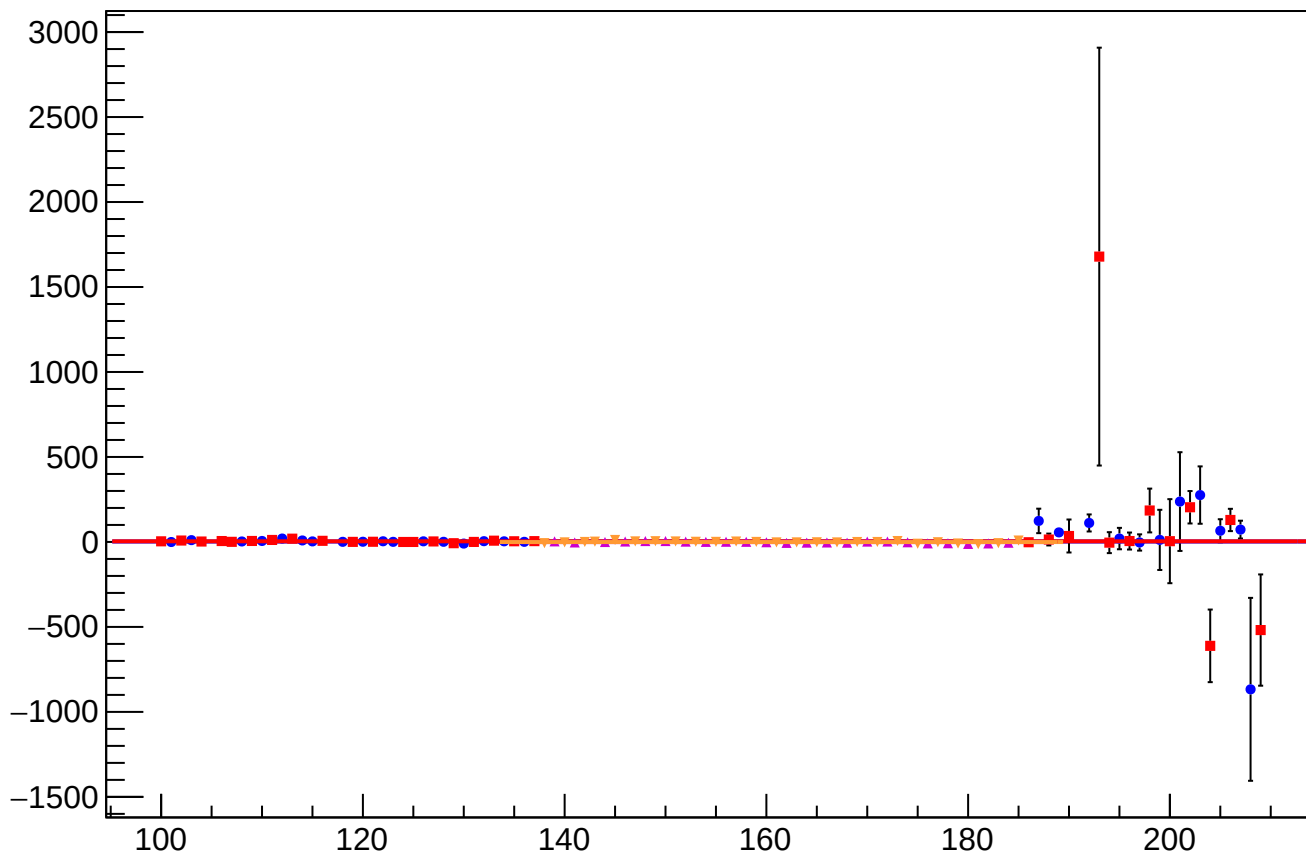
Right: -9.129 ± 6.889 χ^2/NDF : 31.6/22

In: -26.055 ± 0.195 χ^2/NDF : 3298.7/33

Out: -25.868 ± 0.192 χ^2/NDF : 4176.2/36

All: -25.960 ± 0.137 χ^2/NDF : 7475.4/70

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.476+/-0.315 χ^2/NDF : 316.2/27

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.715+/-0.327 χ^2/NDF : 292.3/30

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

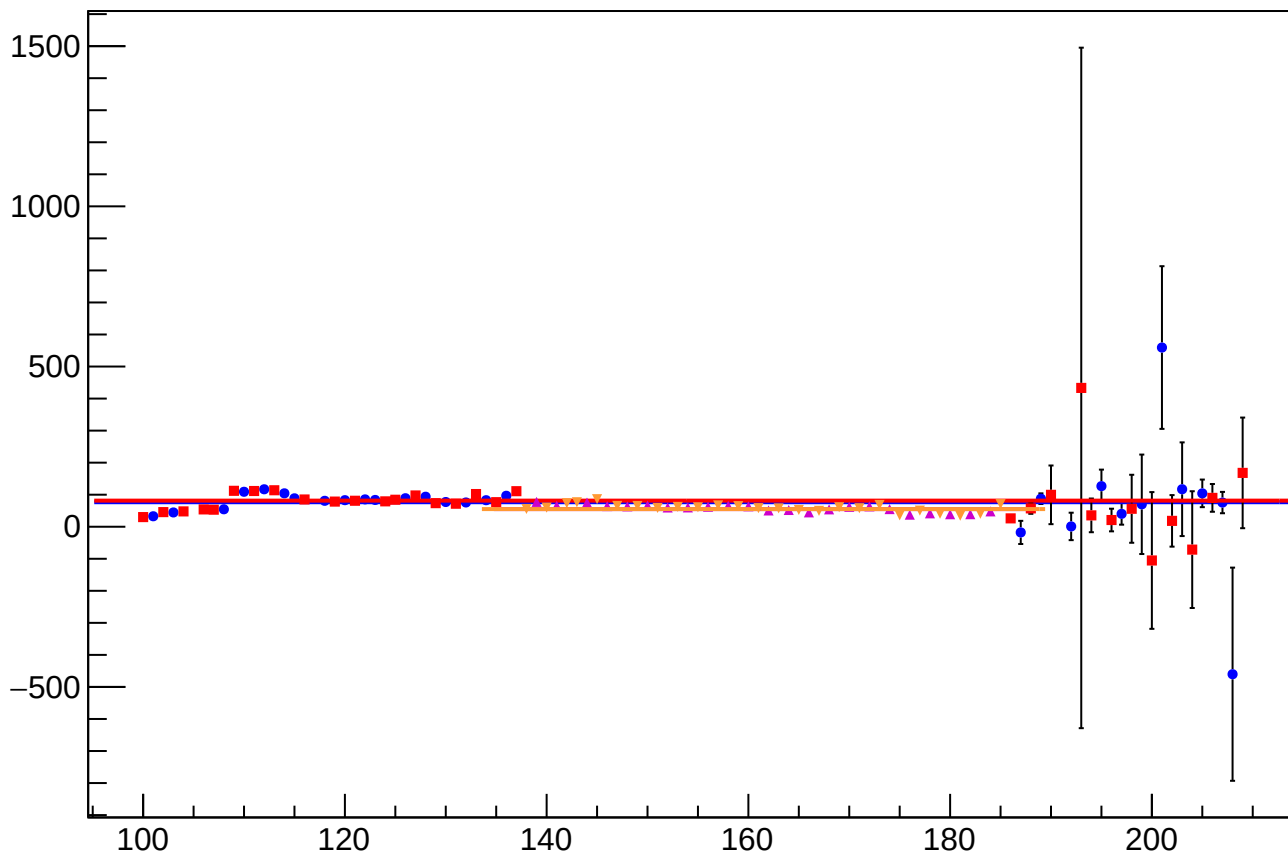
Right: 3.073+/-0.227 χ^2/NDF : 616.0/58

In: -0.242+/-0.136 χ^2/NDF : 1474.4/50

Out: 0.075+/-0.133 χ^2/NDF : 1762.2/55

All: -0.081+/-0.095 χ^2/NDF : 3239.4/106

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.532 $\pm$ 0.576 χ^2 /NDF: 2271.9/27

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.491 $\pm$ 0.590 χ^2 /NDF: 1632.9/30

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

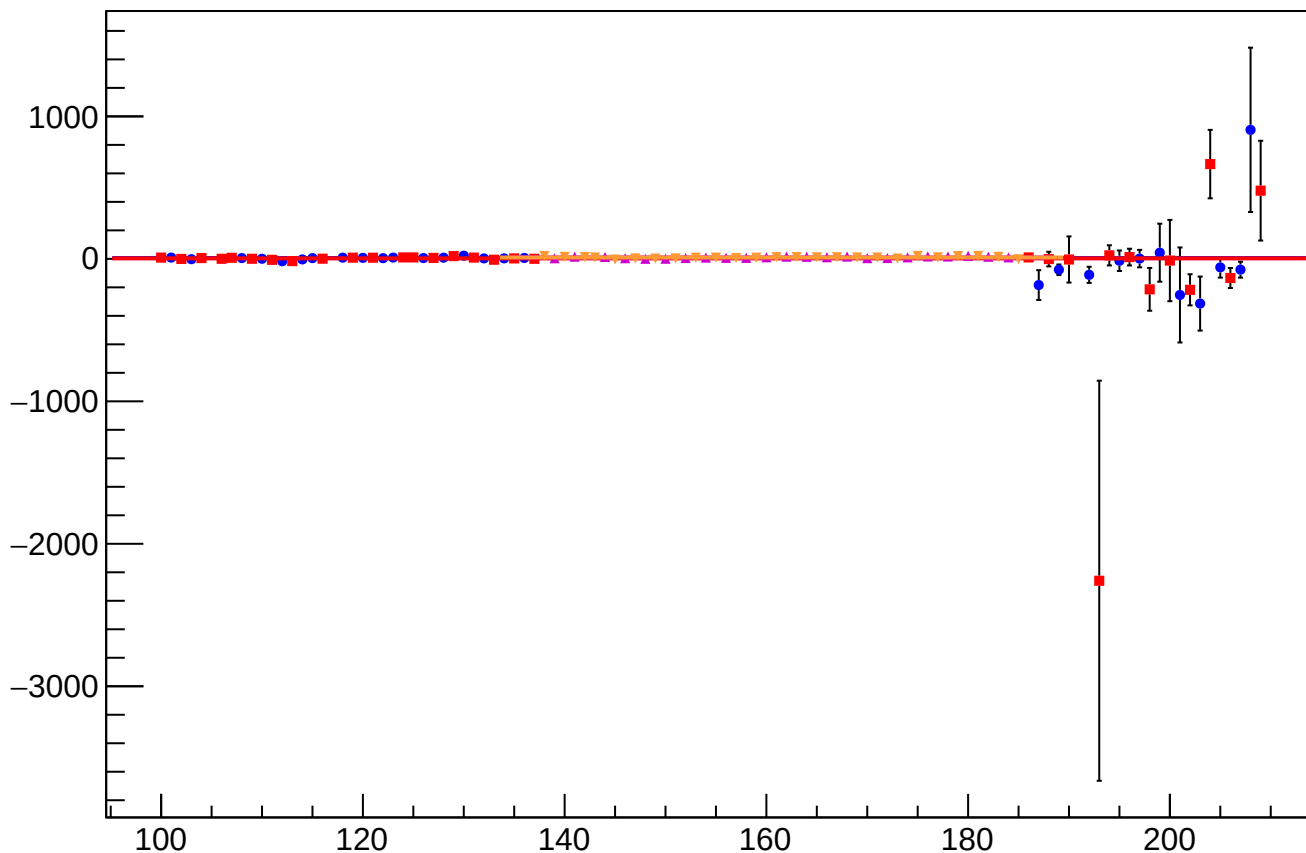
Right: 78.951 $\pm$ 0.412 χ^2 /NDF: 3940.9/58

In: 57.245 $\pm$ 0.183 χ^2 /NDF: 7221.6/50

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8019.9/55

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15243.5/106

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.406 $\pm$ 0.361 χ^2 /NDF: 407.1/27

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.580 $\pm$ 0.375 χ^2 /NDF: 444.0/30

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

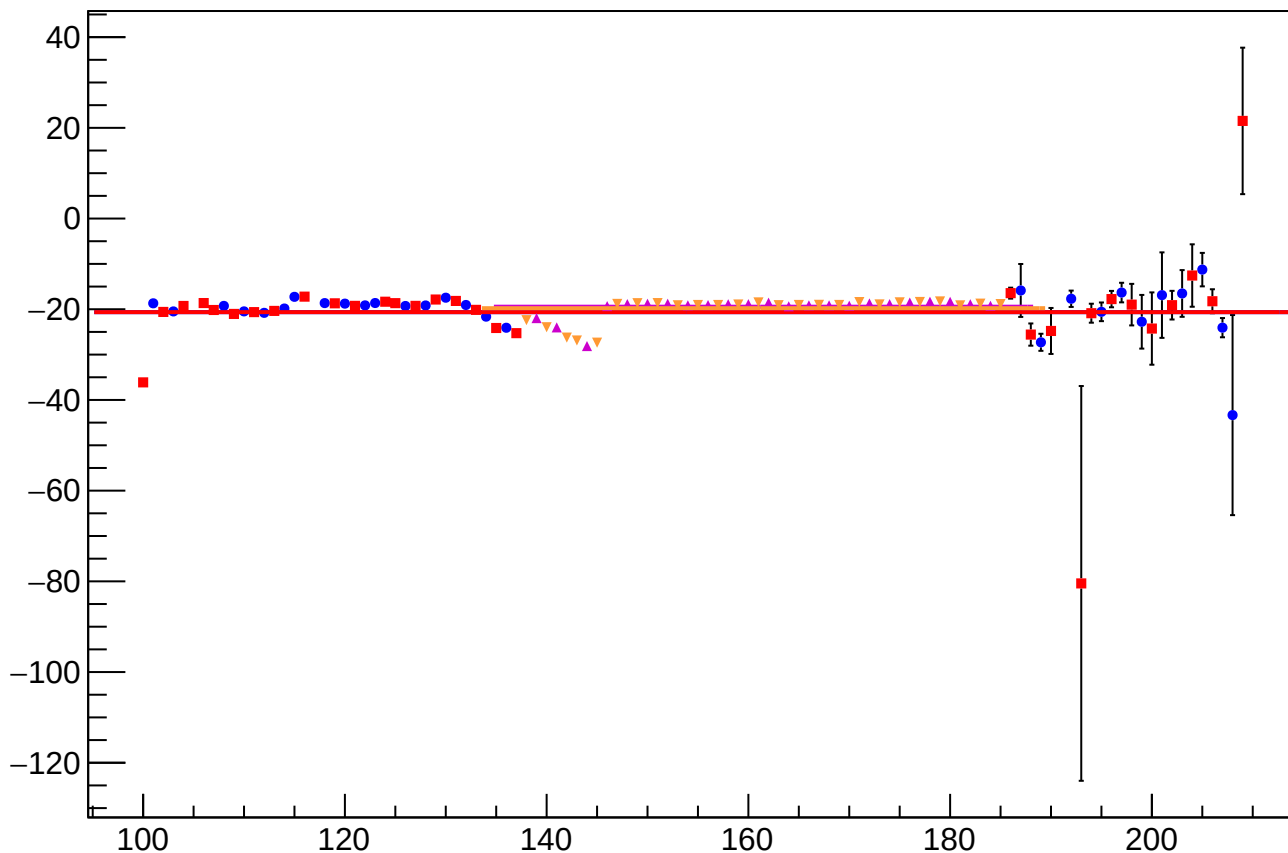
Right: 4.529 $\pm$ 0.260 χ^2 /NDF: 863.4/58

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1686.9/50

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2118.4/55

All: 8.850 $\pm$ 0.109 χ^2 /NDF: 3806.9/106

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12455.1/27

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.638 $\pm$ 0.019 χ^2 /NDF: 13816.7/30

Left In: -19.435 $\pm$ 0.008 χ^2 /NDF: 53170.9/22

Left: -19.603 $\pm$ 0.006 χ^2 /NDF: 145665.0/47

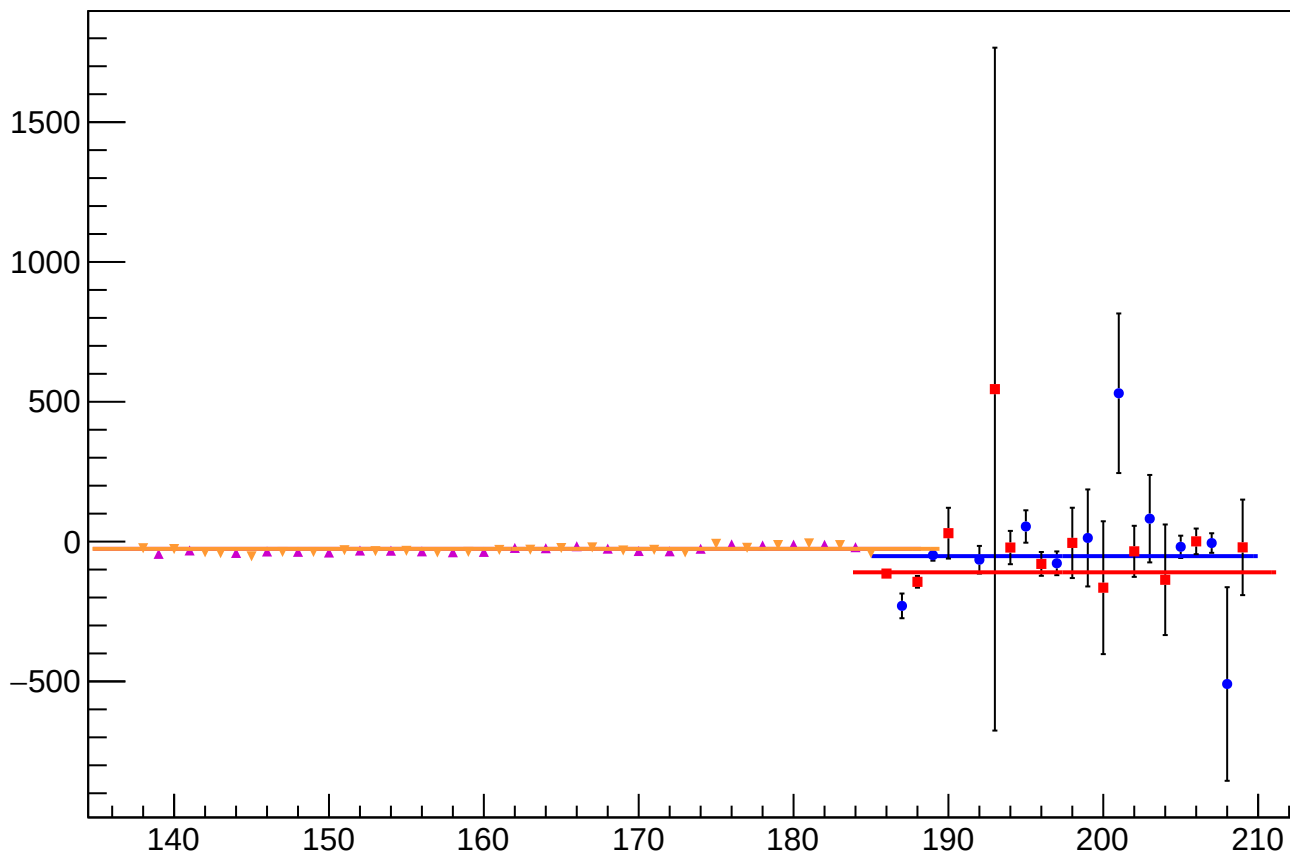
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26271.8/58

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68963.7/50

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107156.2/55

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176848.4/106

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -51.990 ± 13.060 $\chi^2/\text{NDF}: 29.3/10$

Left Out: -25.899 ± 0.192 $\chi^2/\text{NDF}: 4127.5/24$

Right Out: -109.827 ± 8.117 $\chi^2/\text{NDF}: 15.8/11$

Left In: -26.046 ± 0.195 $\chi^2/\text{NDF}: 3246.7/22$

Left: -25.971 ± 0.137 $\chi^2/\text{NDF}: 7374.6/47$

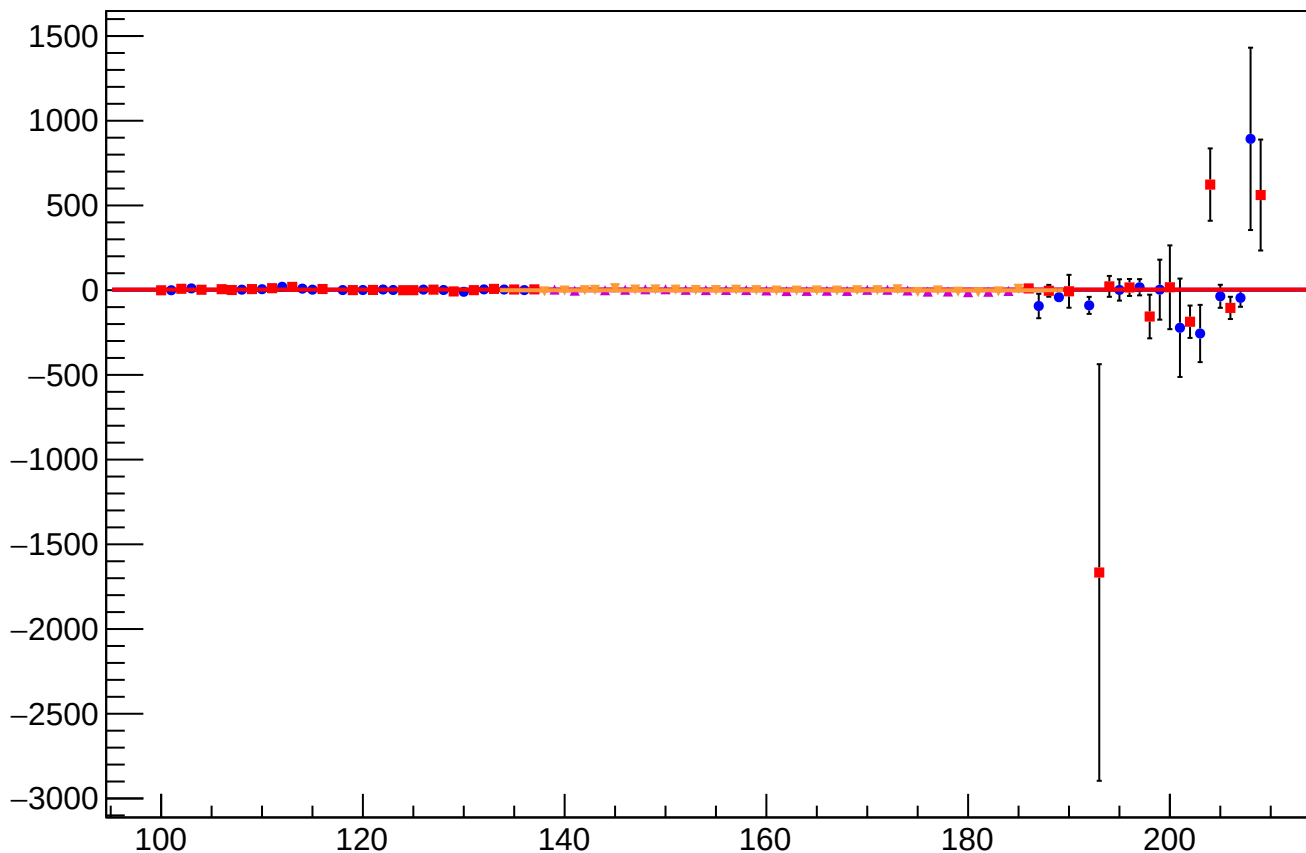
Right: -93.712 ± 6.894 $\chi^2/\text{NDF}: 59.3/22$

In: -26.052 ± 0.195 $\chi^2/\text{NDF}: 3280.0/33$

Out: -25.946 ± 0.192 $\chi^2/\text{NDF}: 4250.2/36$

All: -25.998 ± 0.137 $\chi^2/\text{NDF}: 7530.3/70$

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.438 $\pm$ 0.315 χ^2 /NDF: 308.2/27

Left Out: -0.596 $\pm$ 0.146 χ^2 /NDF:1310.7/24

Right Out: 3.593 $\pm$ 0.318 χ^2 /NDF: 302.0/30

Left In: -0.795 $\pm$ 0.151 χ^2 /NDF:1106.3/22

Left: -0.693 $\pm$ 0.105 χ^2 /NDF: 2417.9/47

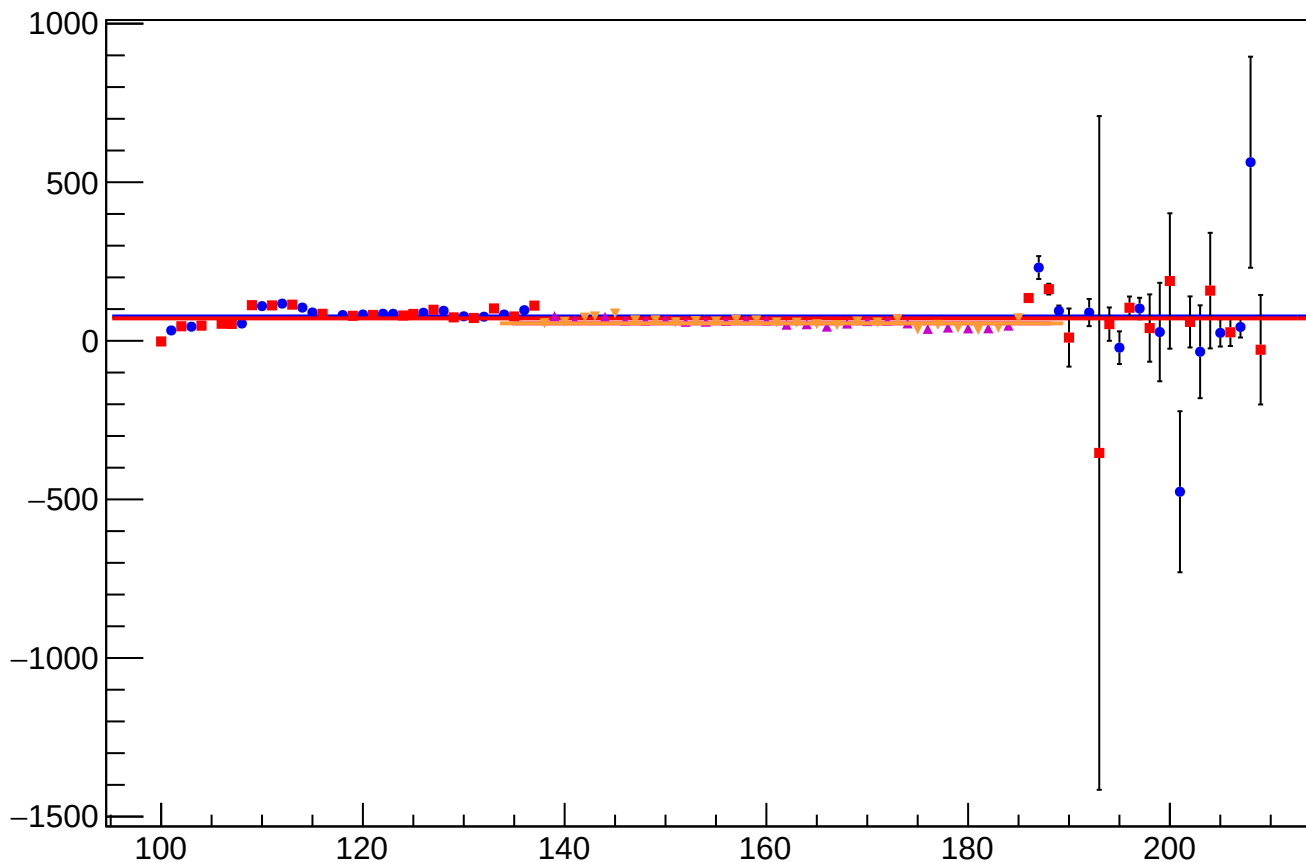
Right: 3.010 $\pm$ 0.224 χ^2 /NDF: 616.8/58

In: -0.194 $\pm$ 0.136 χ^2 /NDF:1500.3/50

Out: 0.136 $\pm$ 0.133 χ^2 /NDF:1755.9/55

All: -0.025 $\pm$ 0.095 χ^2 /NDF: 3259.2/106

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.710 $\pm$ 0.576 χ^2 /NDF: 2298.4/27

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.748 $\pm$ 0.549 χ^2 /NDF: 4492.8/30

Left In: 55.094 $\pm$ 0.194 χ^2 /NDF: 3664.6/22

Left: 55.103 $\pm$ 0.136 χ^2 /NDF: 8224.8/47

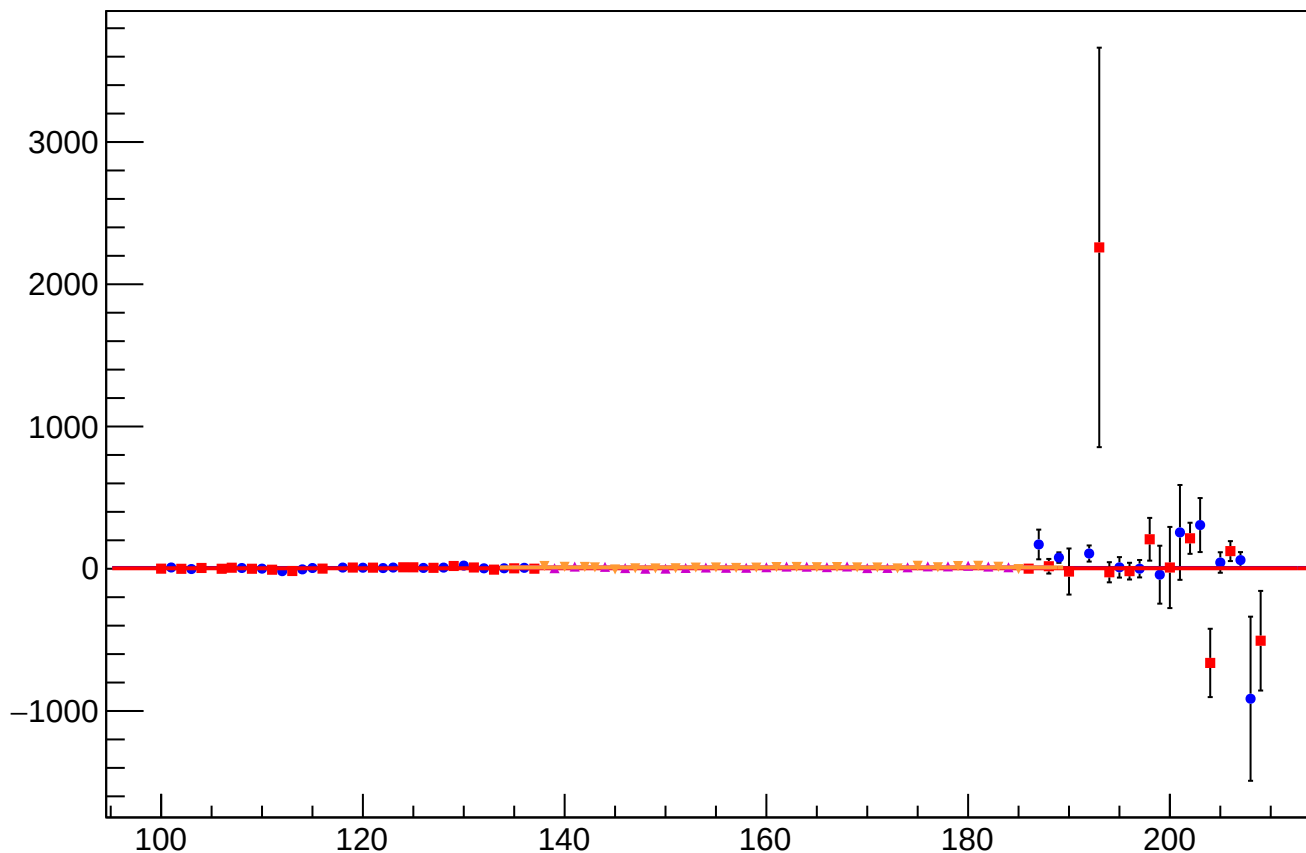
Right: 73.581 $\pm$ 0.397 χ^2 /NDF: 6847.3/58

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7226.5/50

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9777.0/55

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17006.8/106

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.445 $\pm$ 0.361 χ^2 /NDF: 400.8/27

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.283 $\pm$ 0.365 χ^2 /NDF: 446.3/30

Left In: 9.738 $\pm$ 0.172 χ^2 /NDF:1191.1/22

Left: 9.706 $\pm$ 0.120 χ^2 /NDF: 2632.6/47

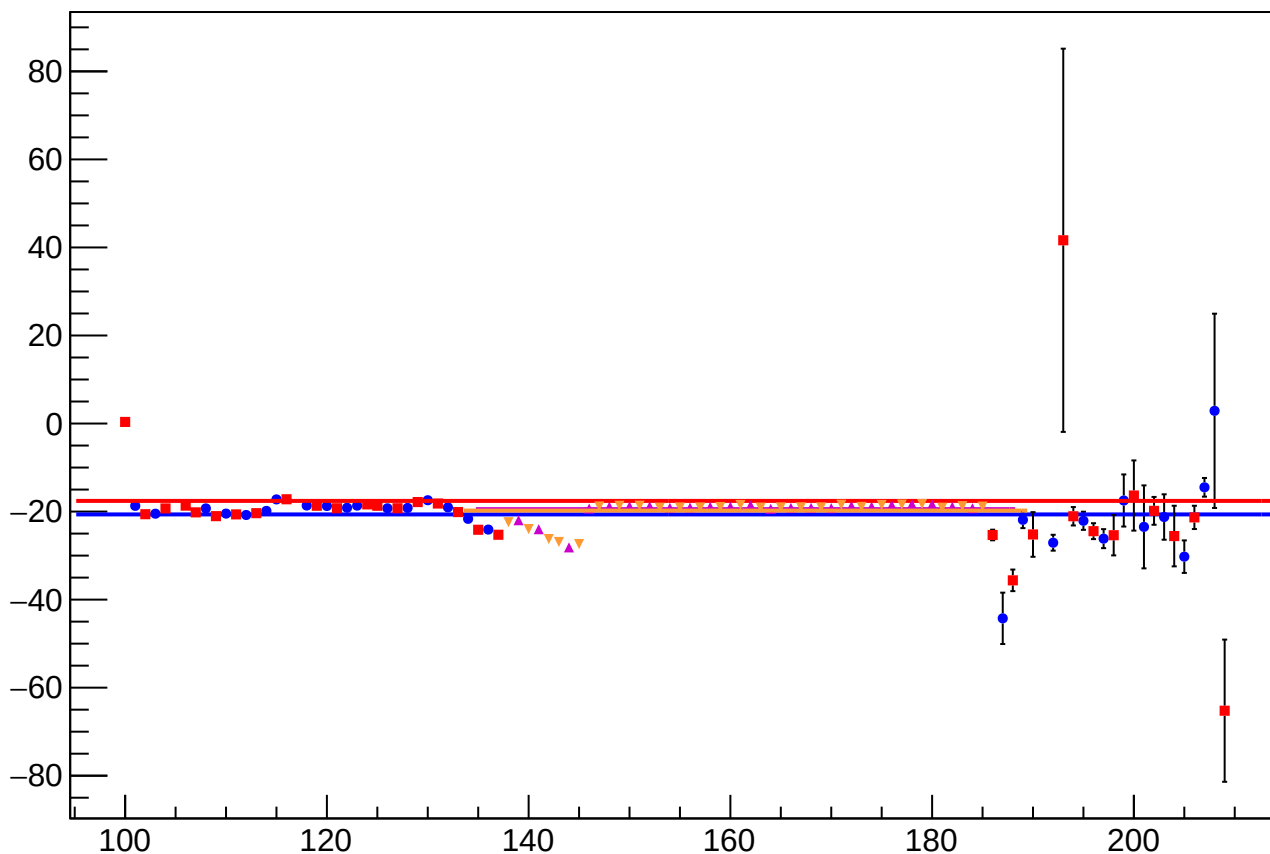
Right: 4.377 $\pm$ 0.257 χ^2 /NDF: 864.9/58

In: 8.946 $\pm$ 0.155 χ^2 /NDF:1707.2/50

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2140.3/55

All: 8.751 $\pm$ 0.109 χ^2 /NDF: 3850.7/106

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.646 ± 0.019 $\chi^2/\text{NDF}: 12515.9/27$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.575 ± 0.018 $\chi^2/\text{NDF}: 178450.3/30$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

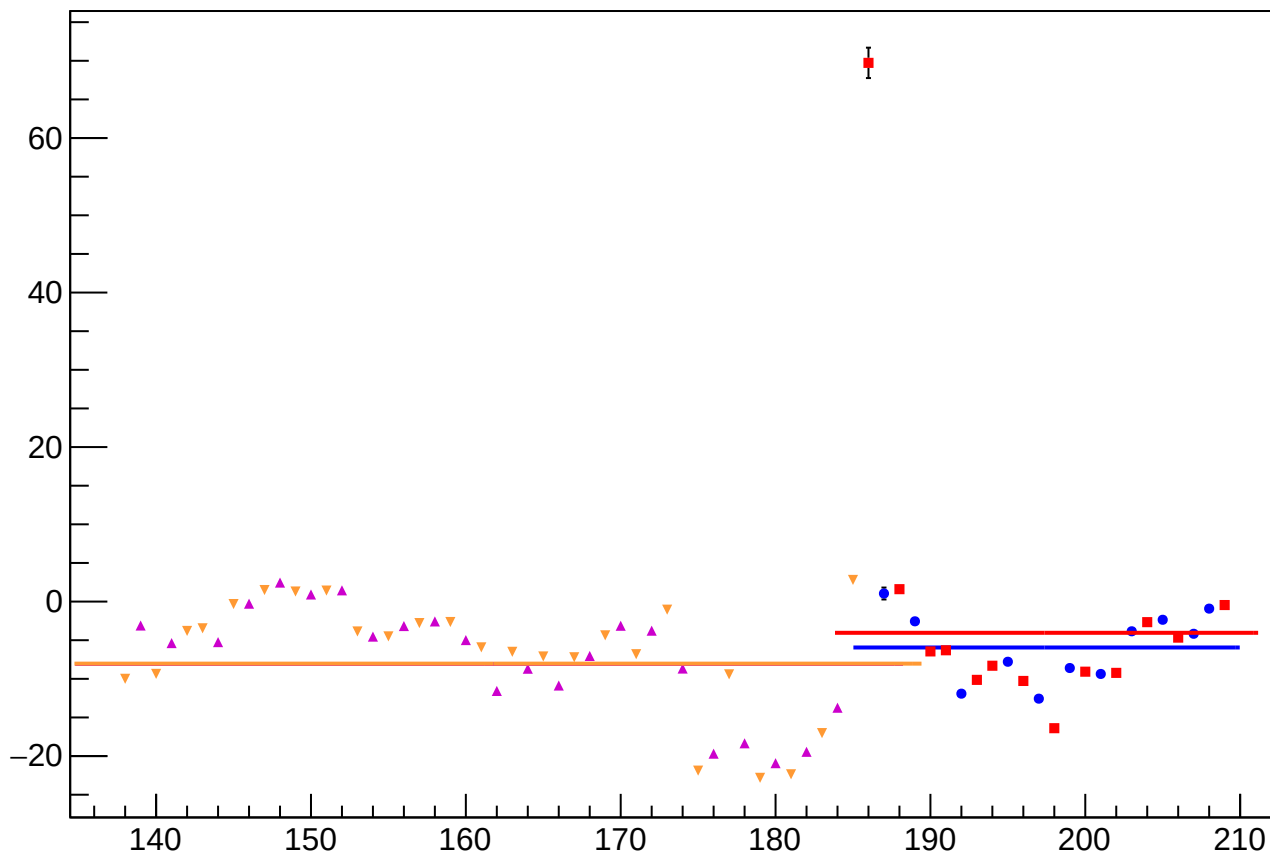
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204435.8/58$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68937.3/50$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282437.2/55$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351737.6/106$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

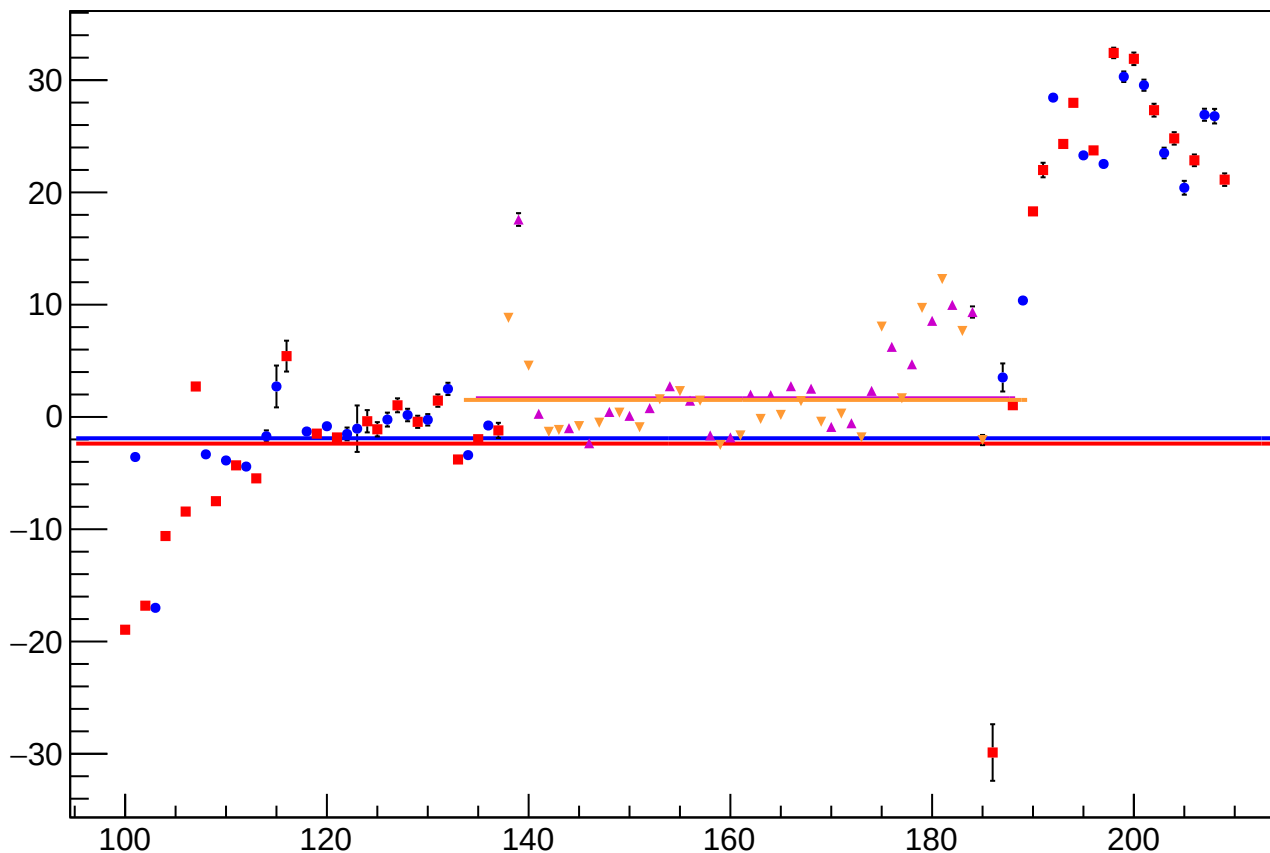


Right In: -5.943 ± 0.120 $\chi^2/\text{NDF}: 1188.8/10$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -4.042 ± 0.101 $\chi^2/\text{NDF}: 4087.9/12$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$
 Right: -4.834 ± 0.077 $\chi^2/\text{NDF}: 5422.9/23$
 In: -7.514 ± 0.062 $\chi^2/\text{NDF}: 11963.1/33$
 Out: -6.738 ± 0.058 $\chi^2/\text{NDF}: 17702.5/37$

All: -7.101 ± 0.042 $\chi^2/\text{NDF}: 29749.9/71$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.898 ± 0.051 χ^2/NDF : 45171.3/27

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -2.373 ± 0.054 χ^2/NDF : 55440.2/31

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

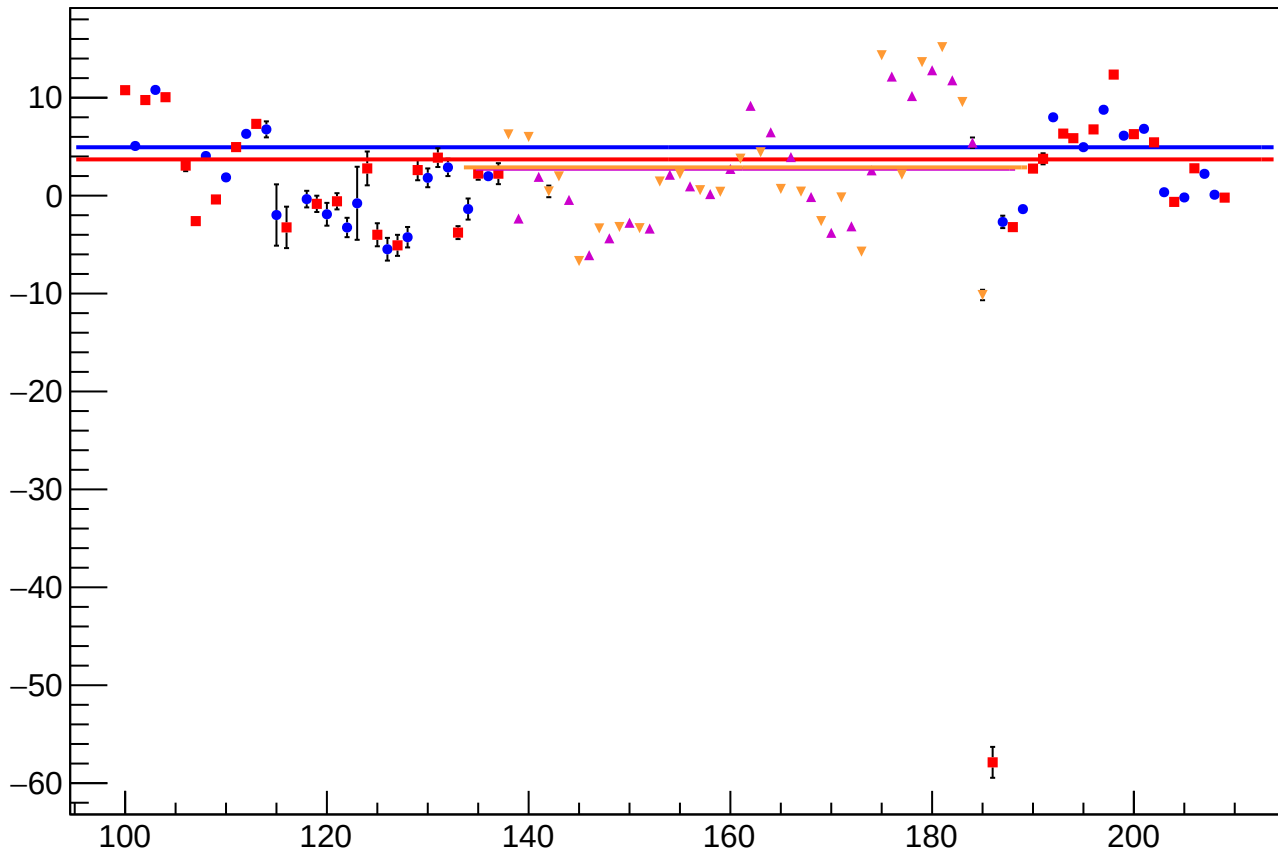
Right: -2.125 ± 0.037 χ^2/NDF : 100652.4/59

In: -0.286 ± 0.038 χ^2/NDF : 51372.9/50

Out: -0.454 ± 0.038 χ^2/NDF : 62884.4/56

All: -0.370 ± 0.027 χ^2/NDF : 114266.9/107

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.940 ± 0.070 $\chi^2/\text{NDF}: 2847.8/27$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 3.700 ± 0.065 $\chi^2/\text{NDF}: 7962.4/31$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

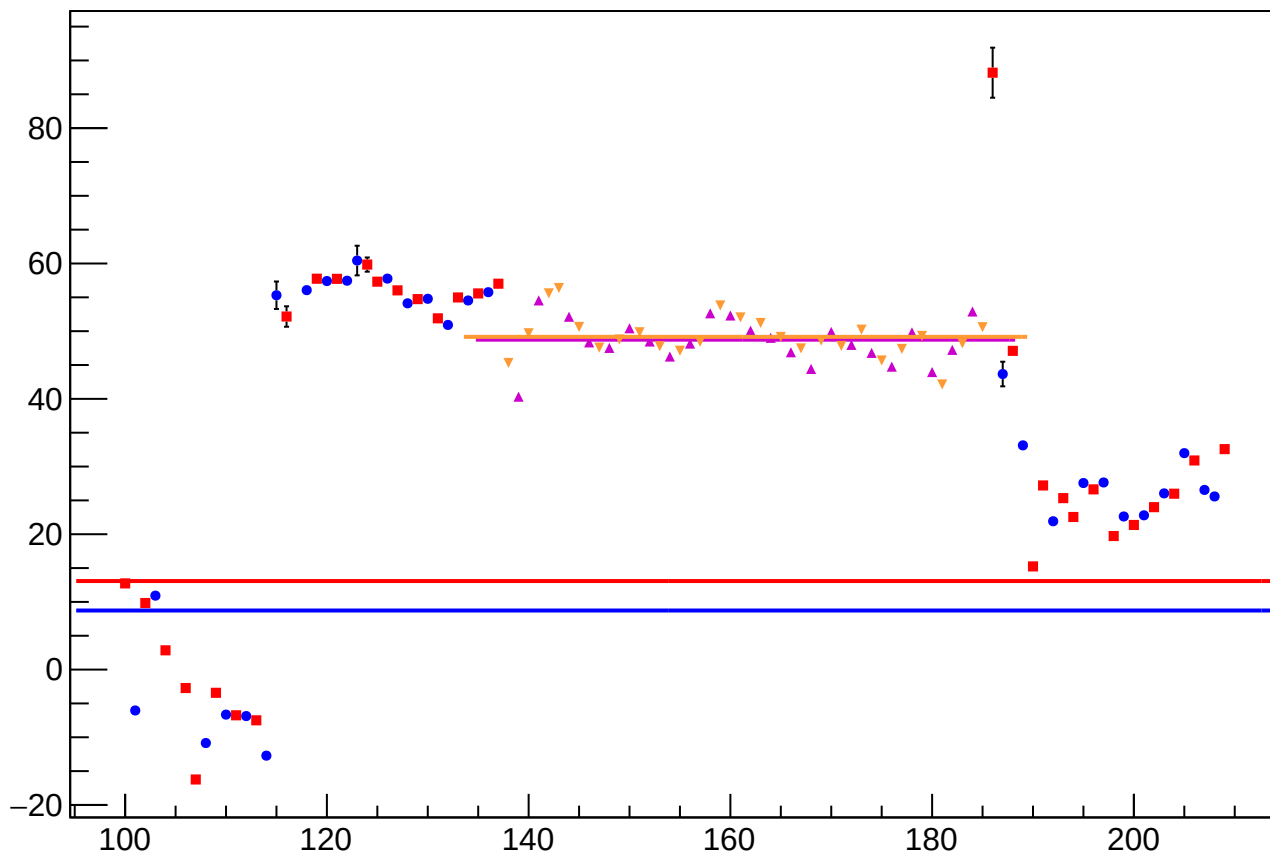
Right: 4.276 ± 0.047 $\chi^2/\text{NDF}: 10979.8/59$

In: 3.870 ± 0.050 $\chi^2/\text{NDF}: 10514.4/50$

Out: 3.325 ± 0.048 $\chi^2/\text{NDF}: 16928.4/56$

All: 3.585 ± 0.034 $\chi^2/\text{NDF}: 27505.3/107$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.729 ± 0.061 $\chi^2/\text{NDF}: 133050.8/27$

Left Out: 49.163 ± 0.062 $\chi^2/\text{NDF}: 2259.9/24$

Right Out: 13.083 ± 0.064 $\chi^2/\text{NDF}: 136635.3/31$

Left In: 48.744 ± 0.064 $\chi^2/\text{NDF}: 2097.7/22$

Left: 48.960 ± 0.044 $\chi^2/\text{NDF}: 4380.0/47$

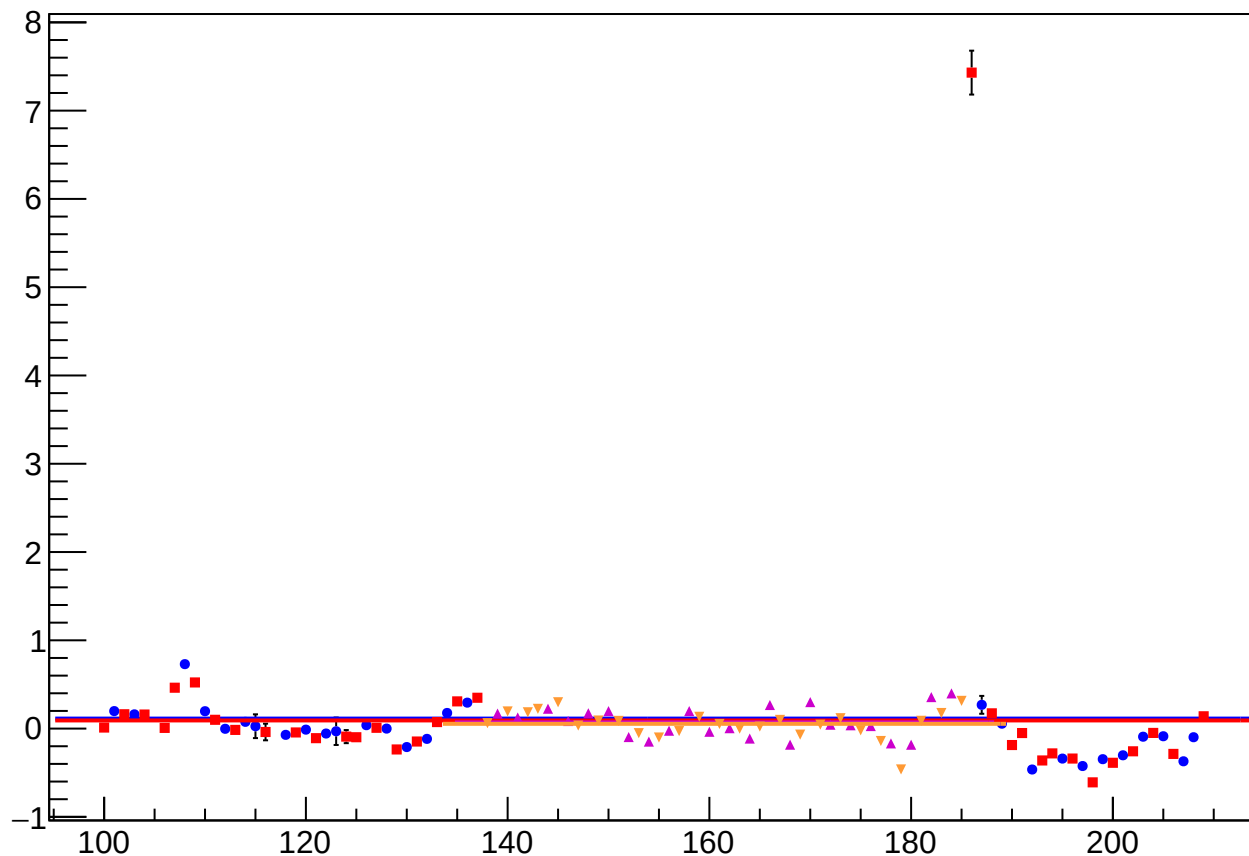
Right: 10.800 ± 0.044 $\chi^2/\text{NDF}: 272136.1/59$

In: 27.739 ± 0.044 $\chi^2/\text{NDF}: 341854.3/50$

Out: 31.686 ± 0.044 $\chi^2/\text{NDF}: 304319.5/56$

All: 29.696 ± 0.031 $\chi^2/\text{NDF}: 650170.9/107$

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.113+/-0.002 χ^2/NDF : 11562.1/27

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.092+/-0.002 χ^2/NDF : 10935.6/31

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

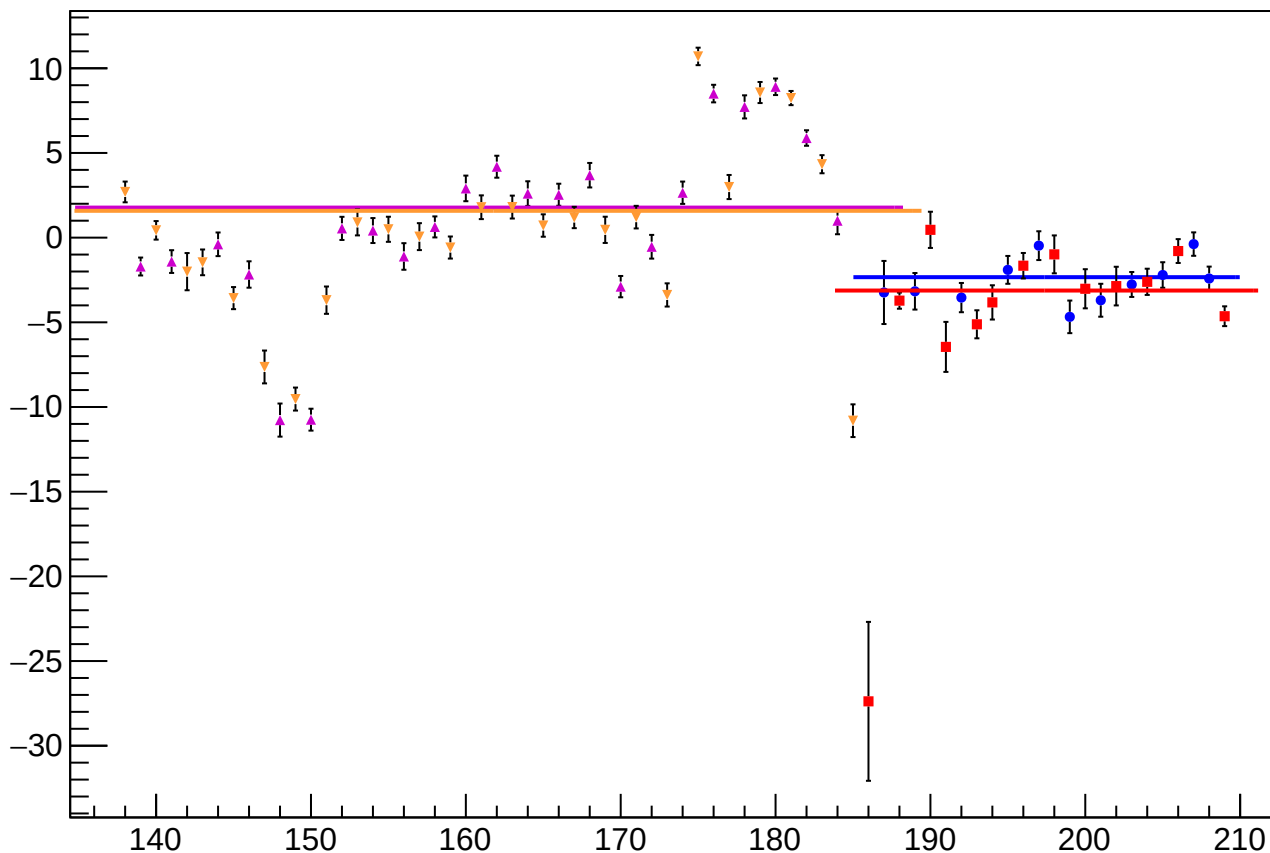
Right: 0.102+/-0.002 χ^2/NDF : 22534.2/59

In: 0.095+/-0.002 χ^2/NDF : 14923.8/50

Out: 0.076+/-0.002 χ^2/NDF : 13423.4/56

All: 0.085+/-0.001 χ^2/NDF : 28396.5/107

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.334 ± 0.256 χ^2/NDF : 24.1/10

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -3.124 ± 0.230 χ^2/NDF : 76.6/12

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

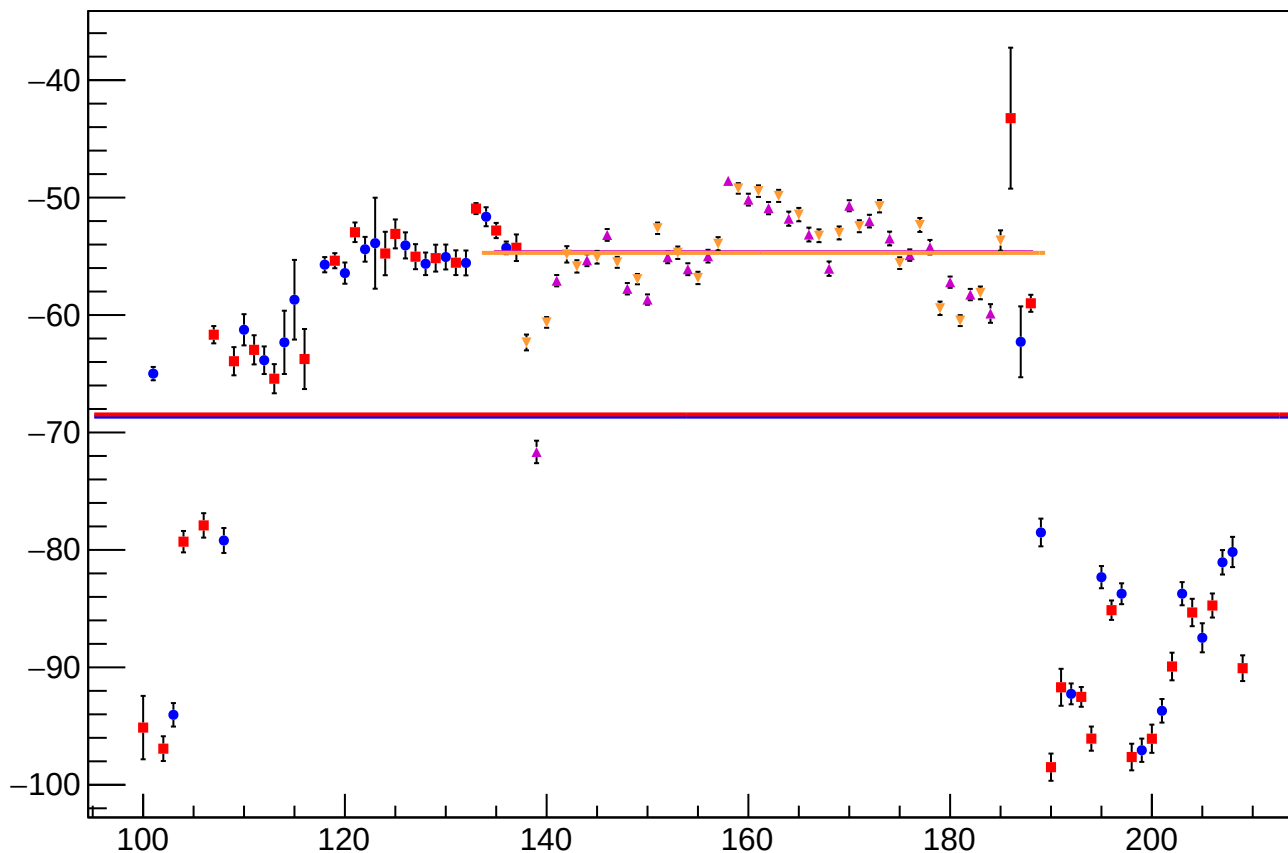
Right: -2.772 ± 0.171 χ^2/NDF : 105.9/23

In: 0.880 ± 0.120 χ^2/NDF : 1522.3/33

Out: 0.408 ± 0.115 χ^2/NDF : 1849.8/37

All: 0.635 ± 0.083 χ^2/NDF : 3380.2/71

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -68.650 ± 0.184 χ^2/NDF : 6862.2/27

Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24

Right Out: -68.465 ± 0.172 χ^2/NDF : 10128.6/31

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

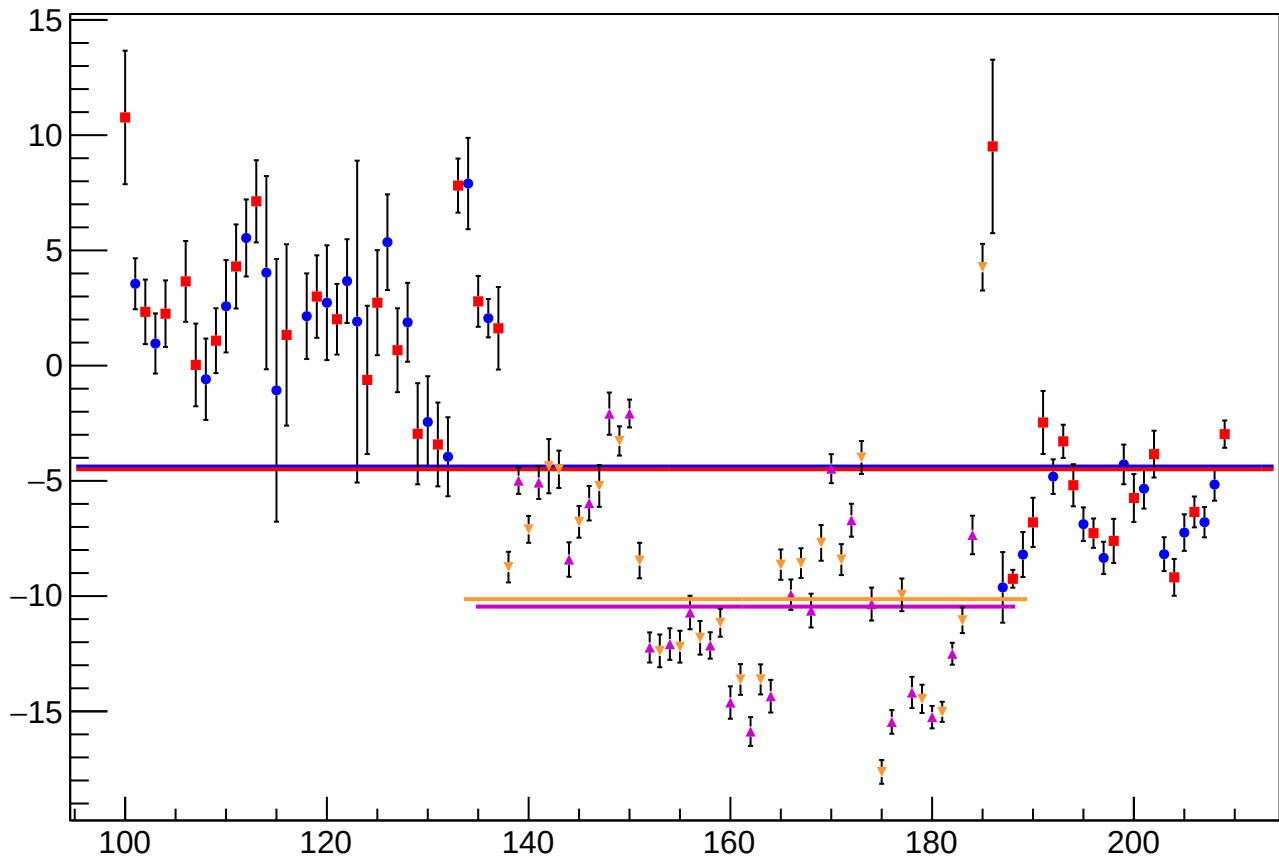
Right: -68.551 ± 0.126 χ^2/NDF : 16991.3/59

In: -58.315 ± 0.094 χ^2/NDF : 12196.4/50

Out: -58.481 ± 0.090 χ^2/NDF : 15902.2/56

All: -58.402 ± 0.065 χ^2/NDF : 28100.2/107

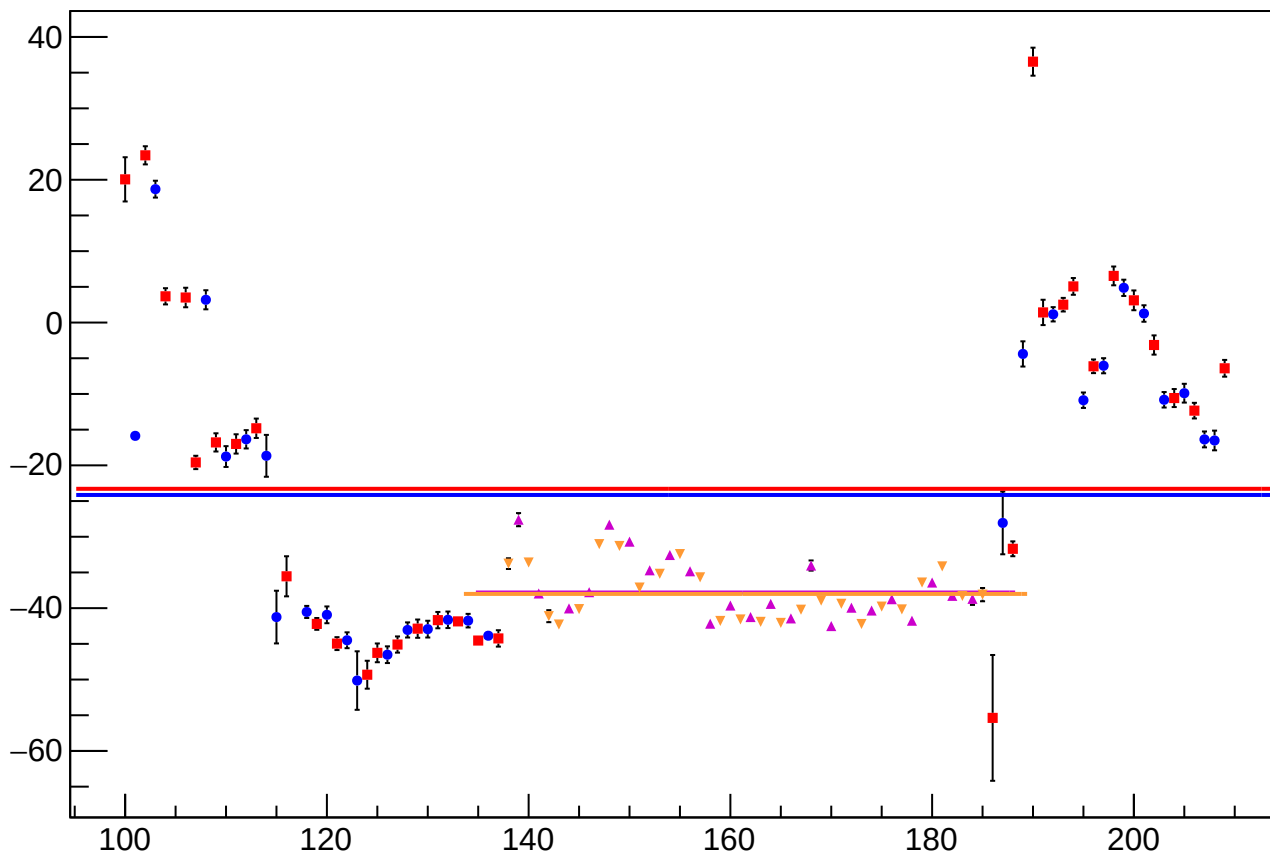
reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.379 ± 0.205 $\chi^2/\text{NDF}: 427.2/27$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -4.497 ± 0.183 $\chi^2/\text{NDF}: 661.0/31$
 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: -4.445 ± 0.136 $\chi^2/\text{NDF}: 1088.3/59$
 In: -8.628 ± 0.113 $\chi^2/\text{NDF}: 2042.6/50$
 Out: -8.181 ± 0.107 $\chi^2/\text{NDF}: 2339.4/56$
 All: -8.394 ± 0.078 $\chi^2/\text{NDF}: 4390.3/107$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.146 ± 0.210 $\chi^2/\text{NDF}: 8436.1/27$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -23.284 ± 0.200 $\chi^2/\text{NDF}: 11814.5/31$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

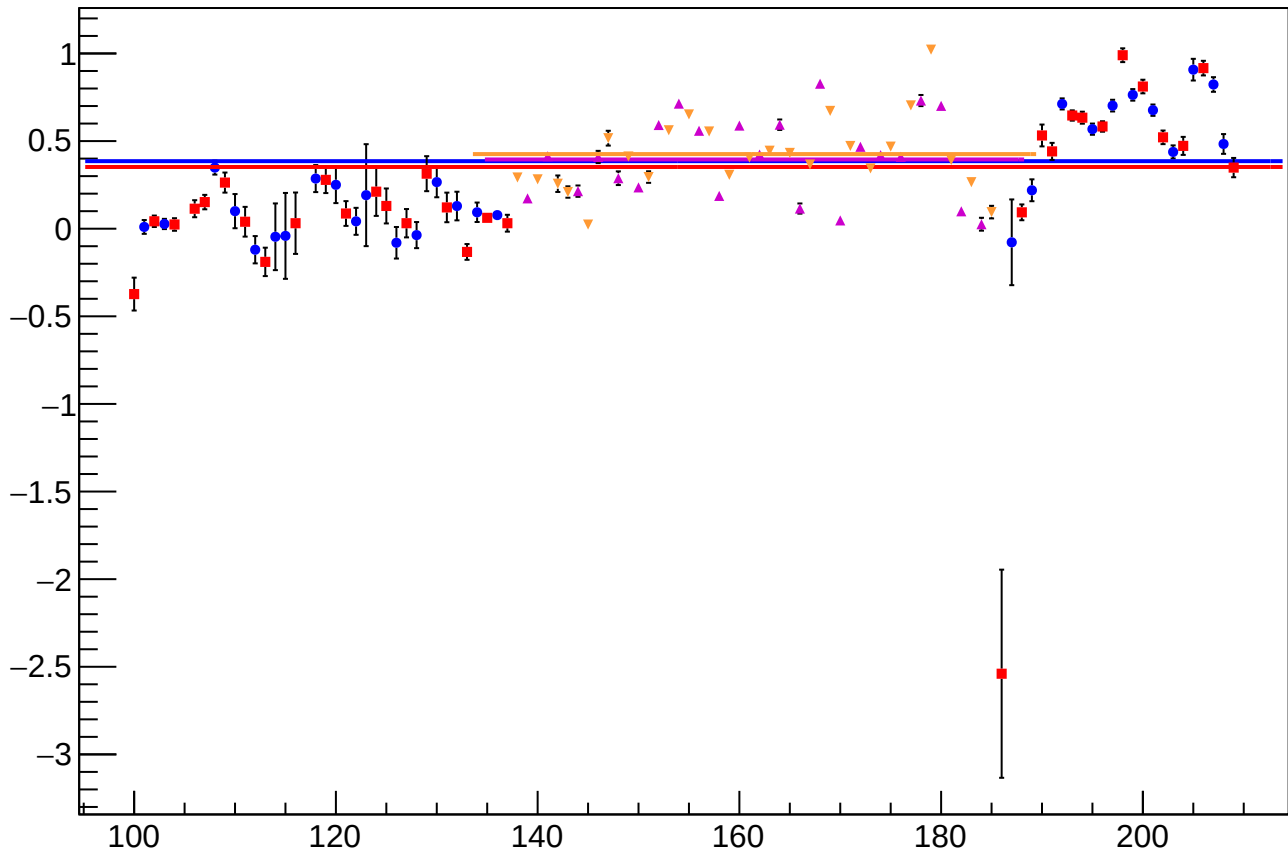
Right: -23.694 ± 0.145 $\chi^2/\text{NDF}: 20259.4/59$

In: -34.353 ± 0.106 $\chi^2/\text{NDF}: 12633.4/50$

Out: -34.167 ± 0.102 $\chi^2/\text{NDF}: 16769.6/56$

All: -34.256 ± 0.073 $\chi^2/\text{NDF}: 29404.7/107$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.385 ± 0.009 χ^2/NDF : 1253.8/27

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.352 ± 0.008 χ^2/NDF : 1574.8/31

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

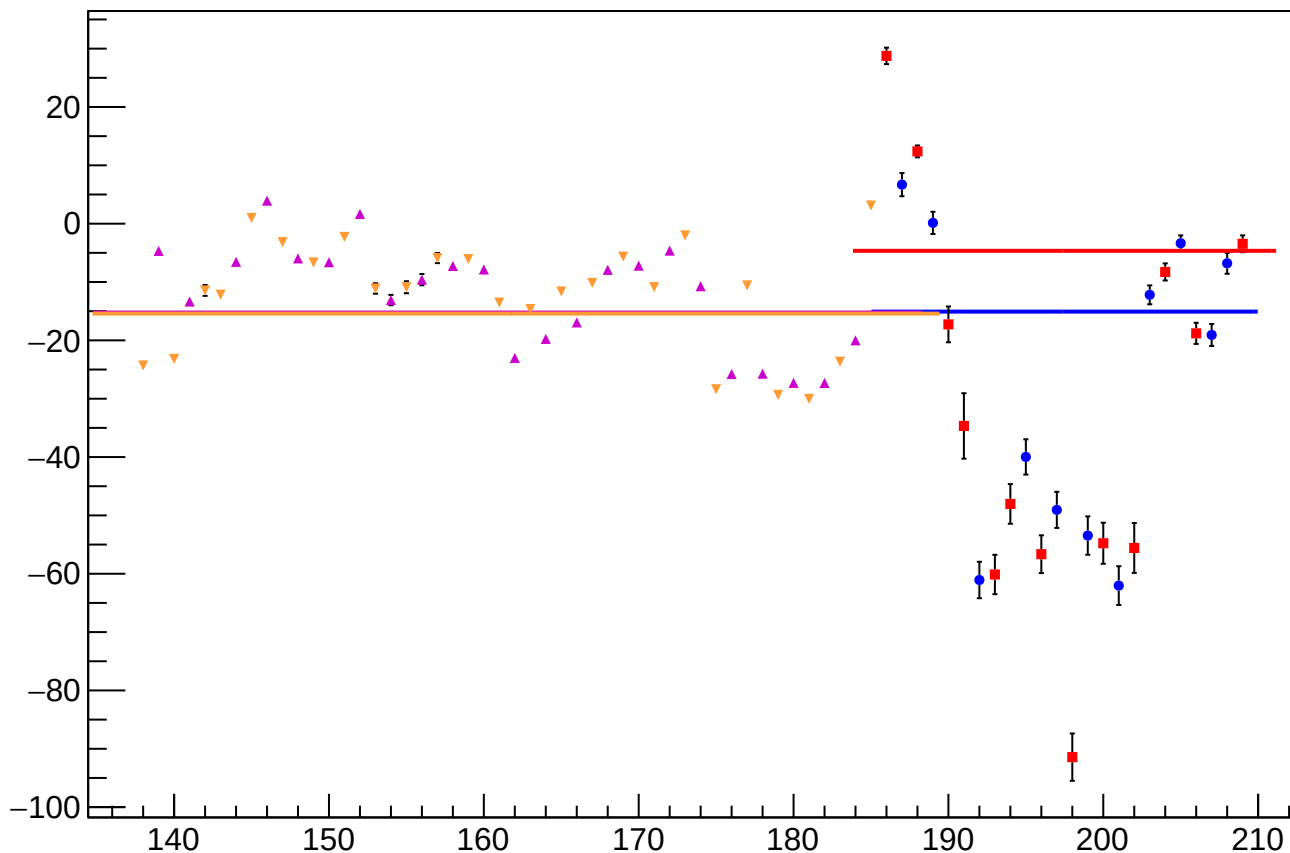
Right: 0.368 ± 0.006 χ^2/NDF : 2836.1/59

In: 0.392 ± 0.005 χ^2/NDF : 3052.8/50

Out: 0.404 ± 0.005 χ^2/NDF : 2933.2/56

All: 0.398 ± 0.003 χ^2/NDF : 5989.5/107

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.073 ± 0.625 $\chi^2/\text{NDF}: 1030.4/10$

Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$

Right Out: -4.652 ± 0.548 $\chi^2/\text{NDF}: 2452.5/12$

Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

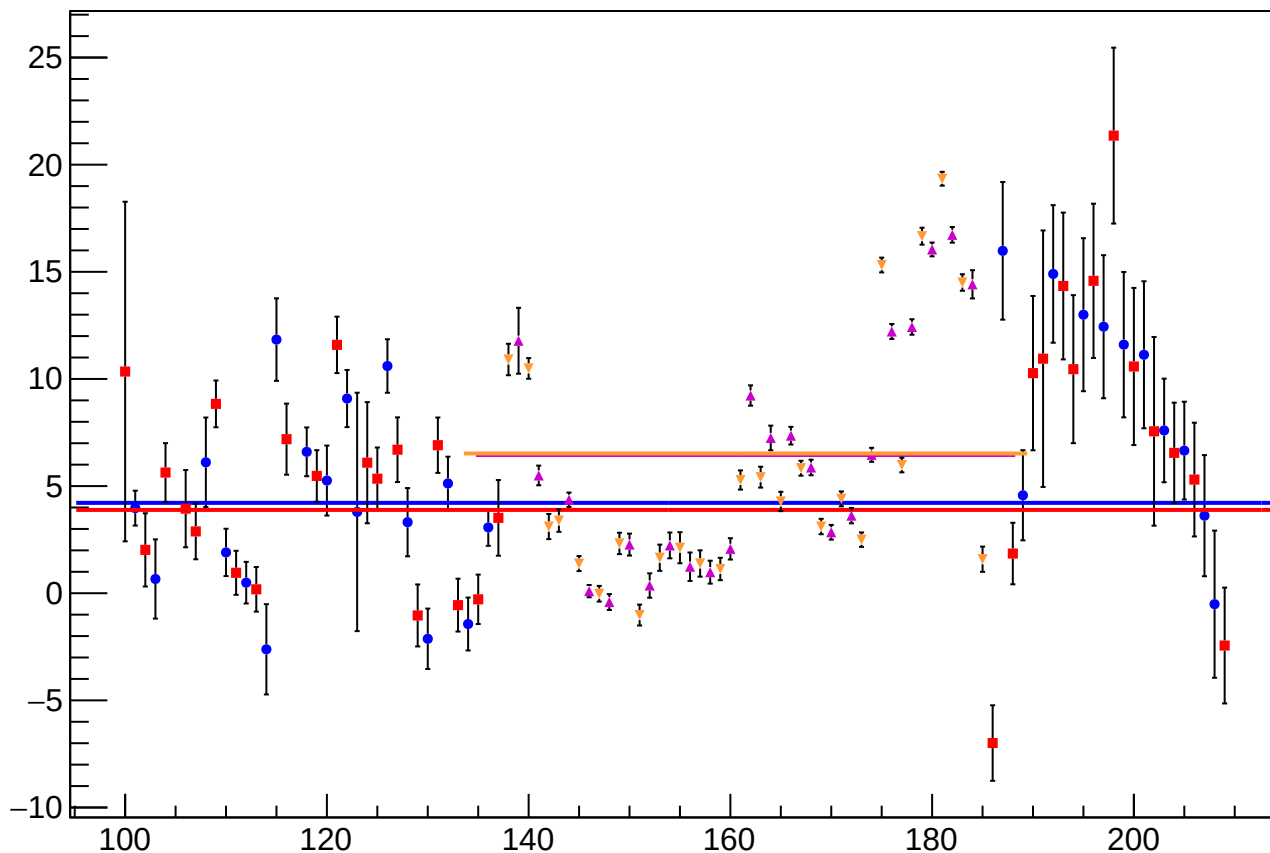
Right: -9.178 ± 0.412 $\chi^2/\text{NDF}: 3640.0/23$

In: -15.225 ± 0.105 $\chi^2/\text{NDF}: 9687.8/33$

Out: -15.030 ± 0.103 $\chi^2/\text{NDF}: 13333.7/37$

All: -15.126 ± 0.074 $\chi^2/\text{NDF}: 23023.2/71$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.217 $\pm$ 0.293 χ^2 /NDF: 188.5/27

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF:4985.2/24

Right Out: 3.888 $\pm$ 0.291 χ^2 /NDF: 229.3/31

Left In: 6.452 $\pm$ 0.086 χ^2 /NDF:3948.0/22

Left: 6.487 $\pm$ 0.061 χ^2 /NDF: 8933.5/47

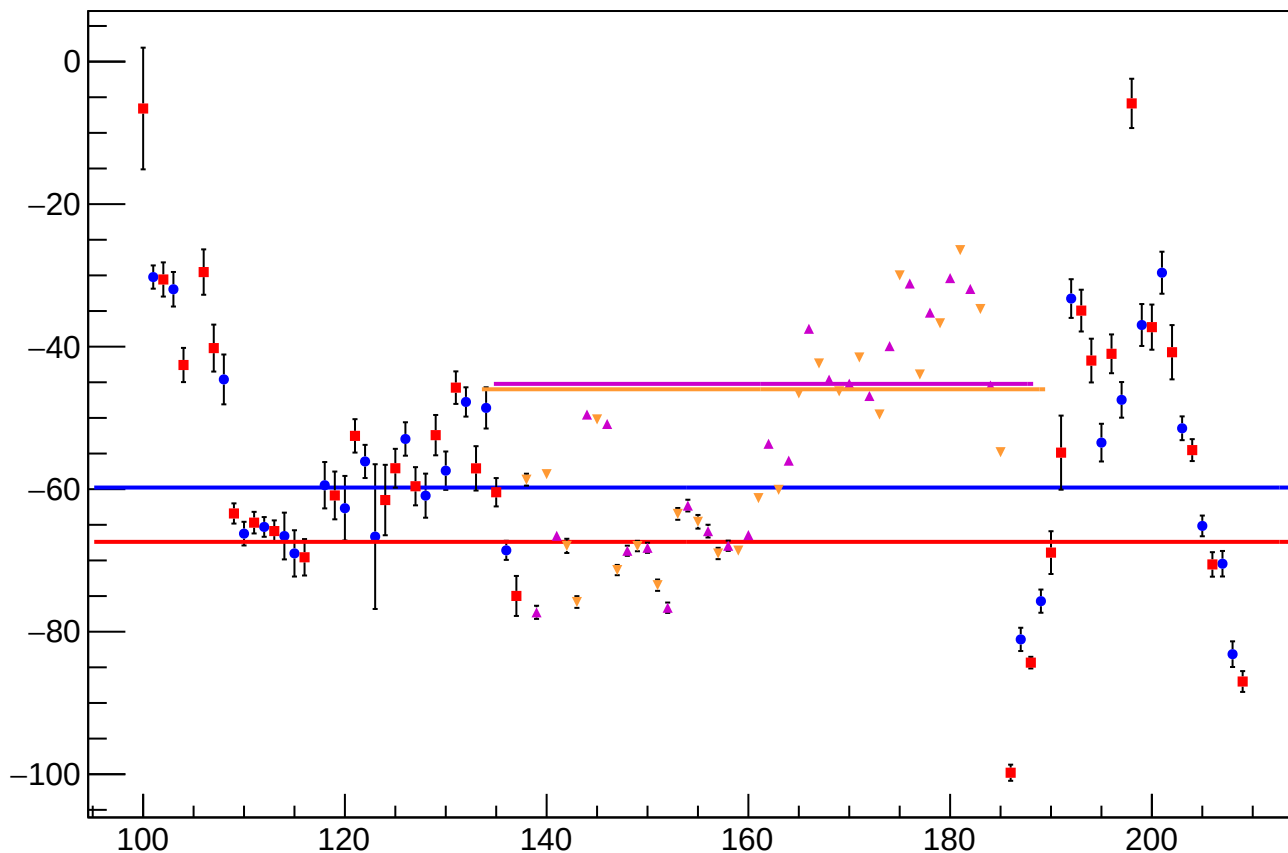
Right: 4.052 $\pm$ 0.206 χ^2 /NDF: 418.4/59

In: 6.274 $\pm$ 0.083 χ^2 /NDF:4190.2/50

Out: 6.313 $\pm$ 0.082 χ^2 /NDF:5289.6/56

All: 6.293 $\pm$ 0.058 χ^2 /NDF: 9479.9/107

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.770 ± 0.400 χ^2/NDF : 1425.8/27

Left Out: -45.982 ± 0.106 χ^2/NDF : 17360.1/24

Right Out: -67.393 ± 0.360 χ^2/NDF : 3081.5/31

Left In: -45.222 ± 0.107 χ^2/NDF : 15600.2/22

Left: -45.605 ± 0.075 χ^2/NDF : 32985.7/47

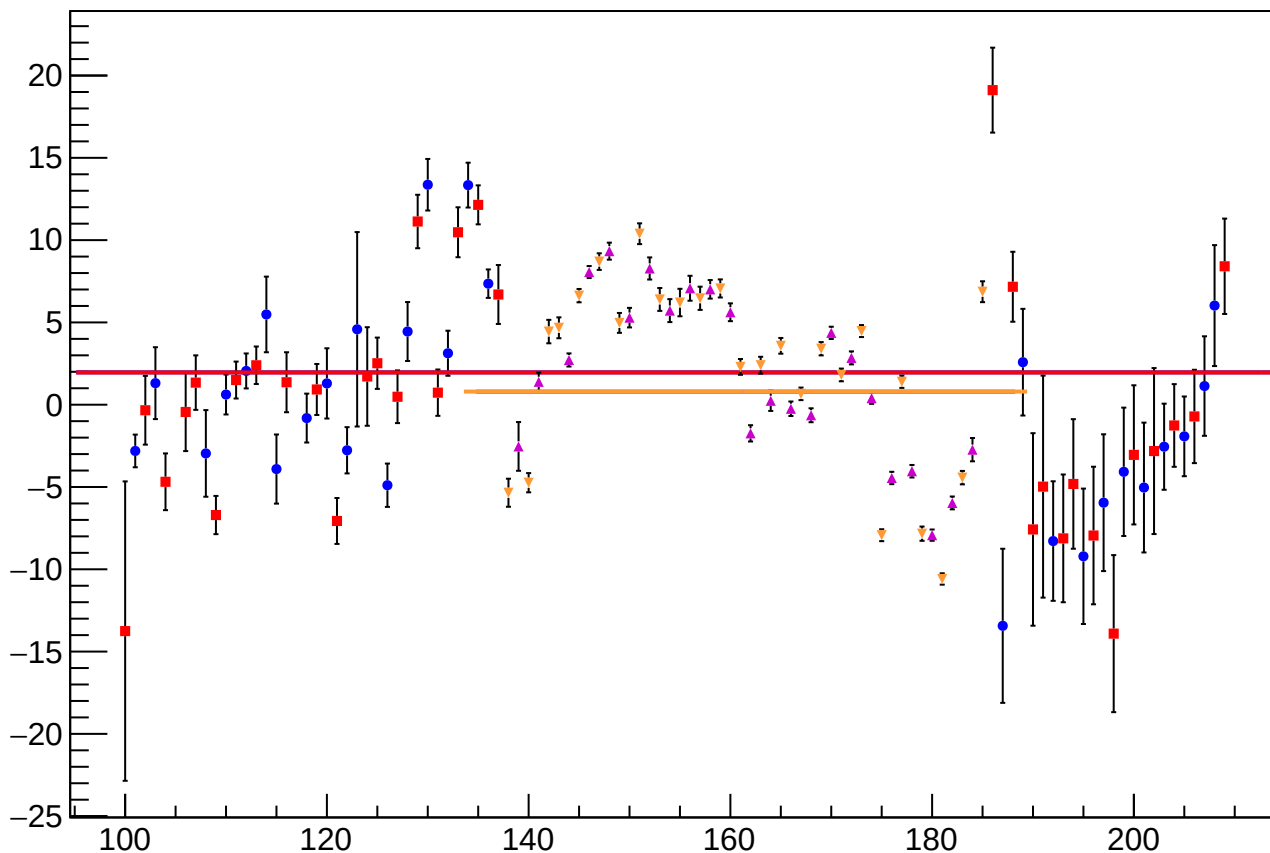
Right: -63.986 ± 0.267 χ^2/NDF : 4708.2/59

In: -46.197 ± 0.104 χ^2/NDF : 18260.3/50

Out: -47.702 ± 0.102 χ^2/NDF : 23702.9/56

All: -46.961 ± 0.073 χ^2/NDF : 42070.5/107

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.965 ± 0.329 χ^2/NDF : 286.9/27

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.959 ± 0.332 χ^2/NDF : 354.7/31

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

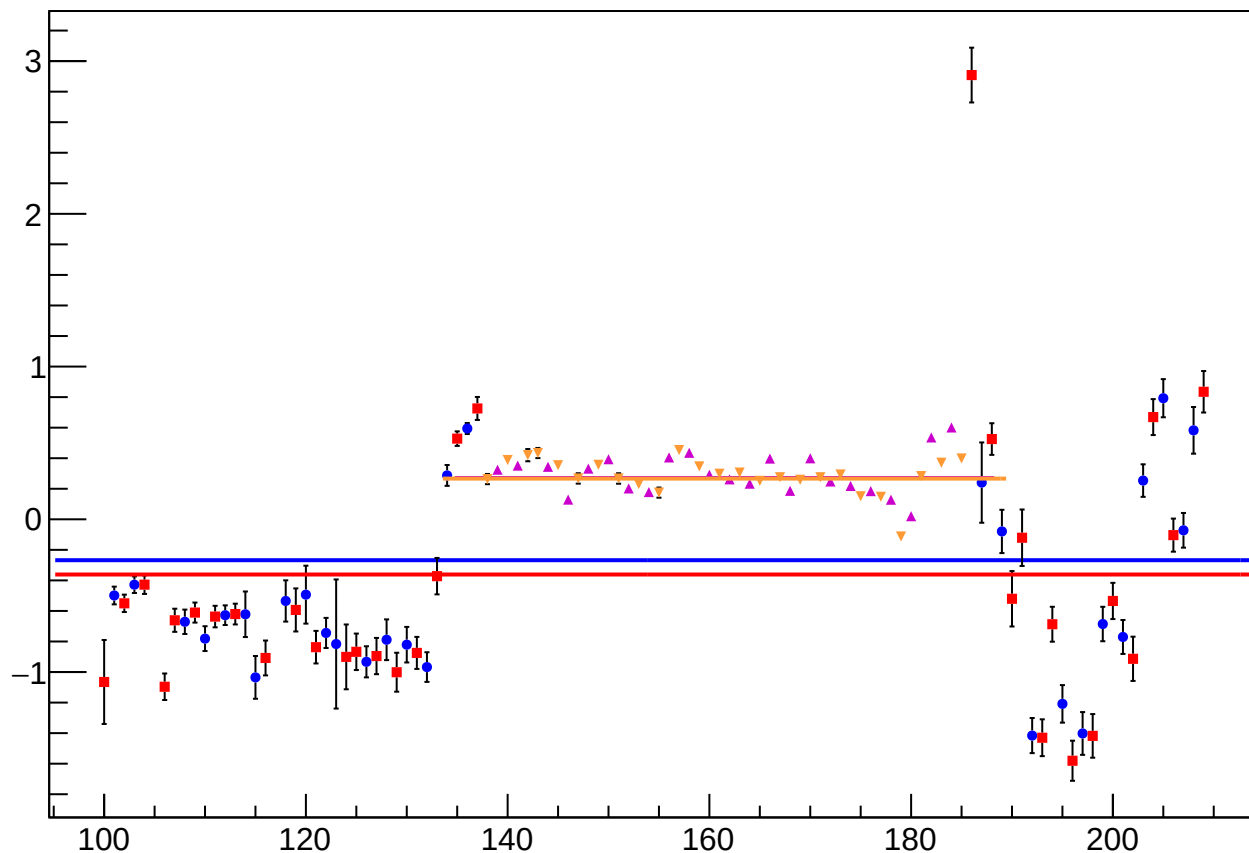
Right: 1.962 ± 0.234 χ^2/NDF : 641.6/59

In: 0.885 ± 0.093 χ^2/NDF : 2991.1/50

Out: 0.886 ± 0.092 χ^2/NDF : 4125.9/56

All: 0.886 ± 0.065 χ^2/NDF : 7117.0/107

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.268 ± 0.017 χ^2/NDF : 1354.3/27

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.361 ± 0.017 χ^2/NDF : 1659.8/31

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

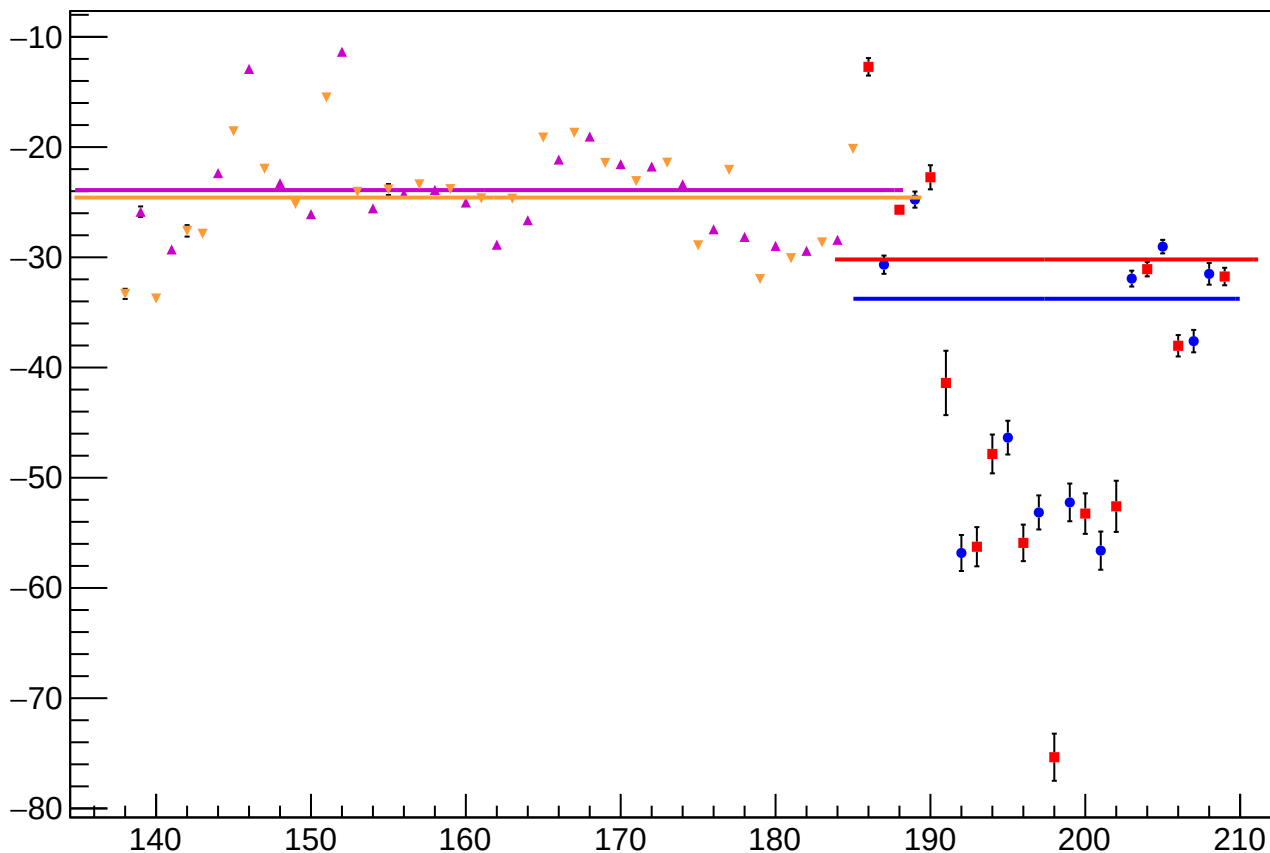
Right: -0.315 ± 0.012 χ^2/NDF : 3029.4/59

In: 0.236 ± 0.004 χ^2/NDF : 3268.3/50

Out: 0.227 ± 0.004 χ^2/NDF : 3666.0/56

All: 0.231 ± 0.003 χ^2/NDF : 6936.5/107

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.761 ± 0.291 χ^2/NDF : 966.1/10
 Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24
 Right Out: -30.194 ± 0.262 χ^2/NDF : 1978.8/12
 Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

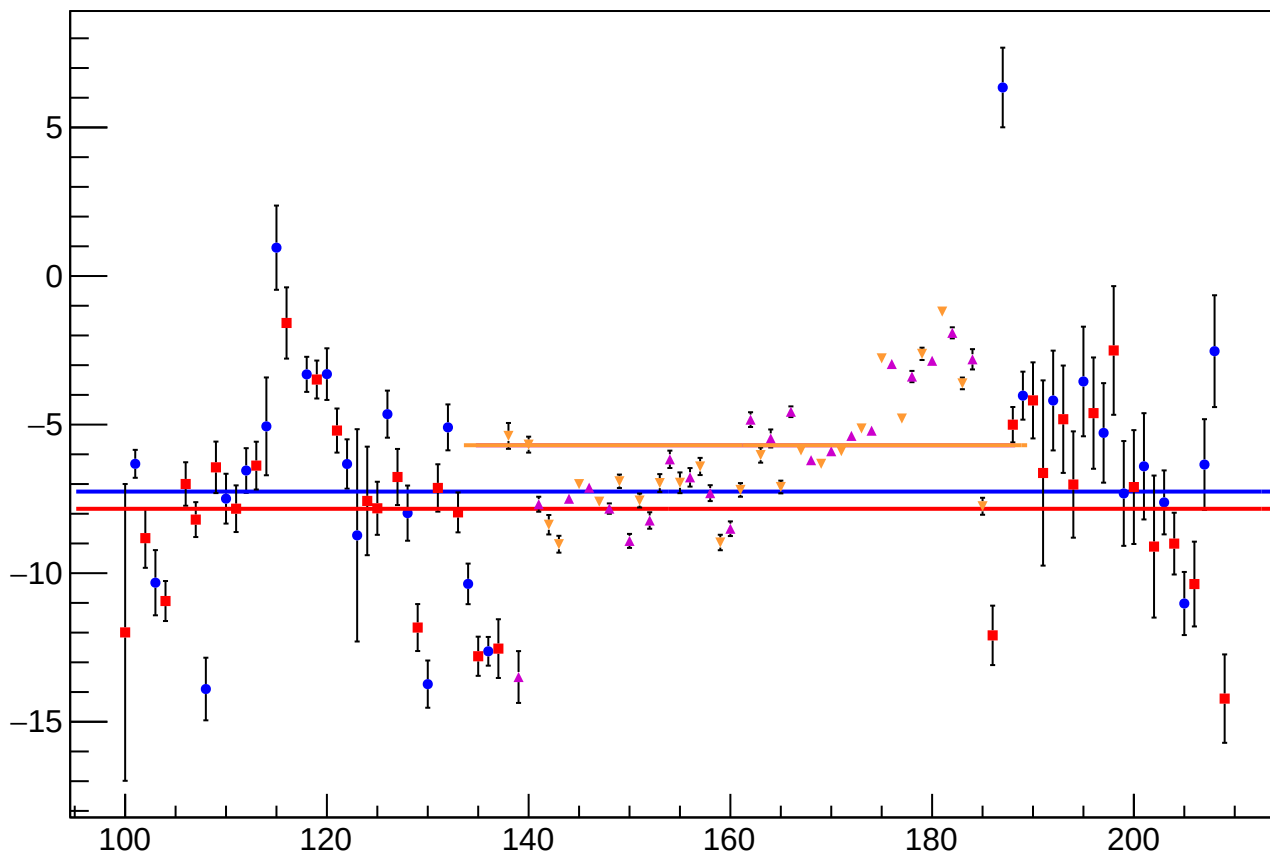
Right: -31.788 ± 0.195 χ^2/NDF : 3027.9/23

In: -24.196 ± 0.050 χ^2/NDF : 11234.0/33

Out: -24.783 ± 0.050 χ^2/NDF : 11013.4/37

All: -24.491 ± 0.035 χ^2/NDF : 22315.9/71

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.254 ± 0.170 χ^2/NDF : 532.0/27

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.834 ± 0.165 χ^2/NDF : 308.1/31

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

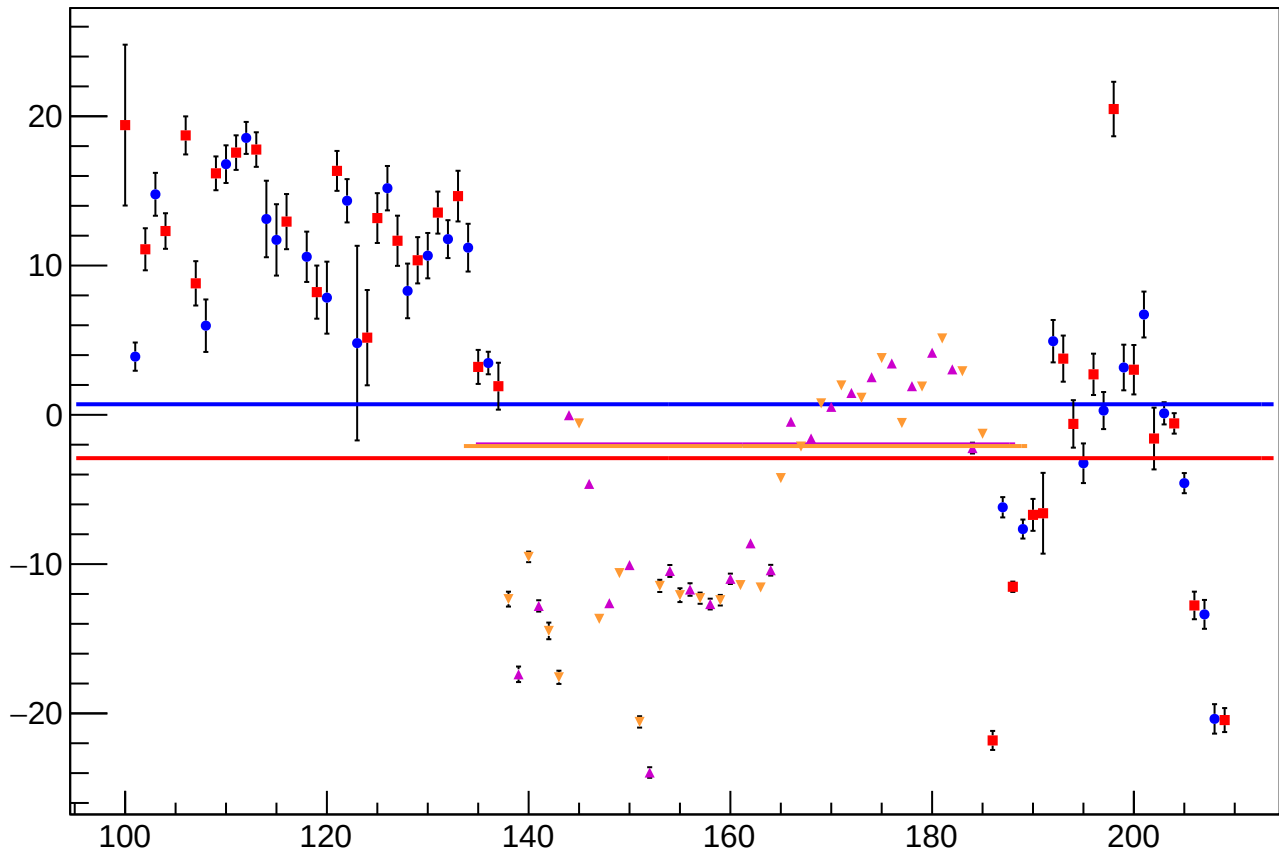
Right: -7.553 ± 0.118 χ^2/NDF : 846.1/59

In: -5.781 ± 0.040 χ^2/NDF : 2921.3/50

Out: -5.819 ± 0.040 χ^2/NDF : 2725.1/56

All: -5.800 ± 0.028 χ^2/NDF : 5646.9/107

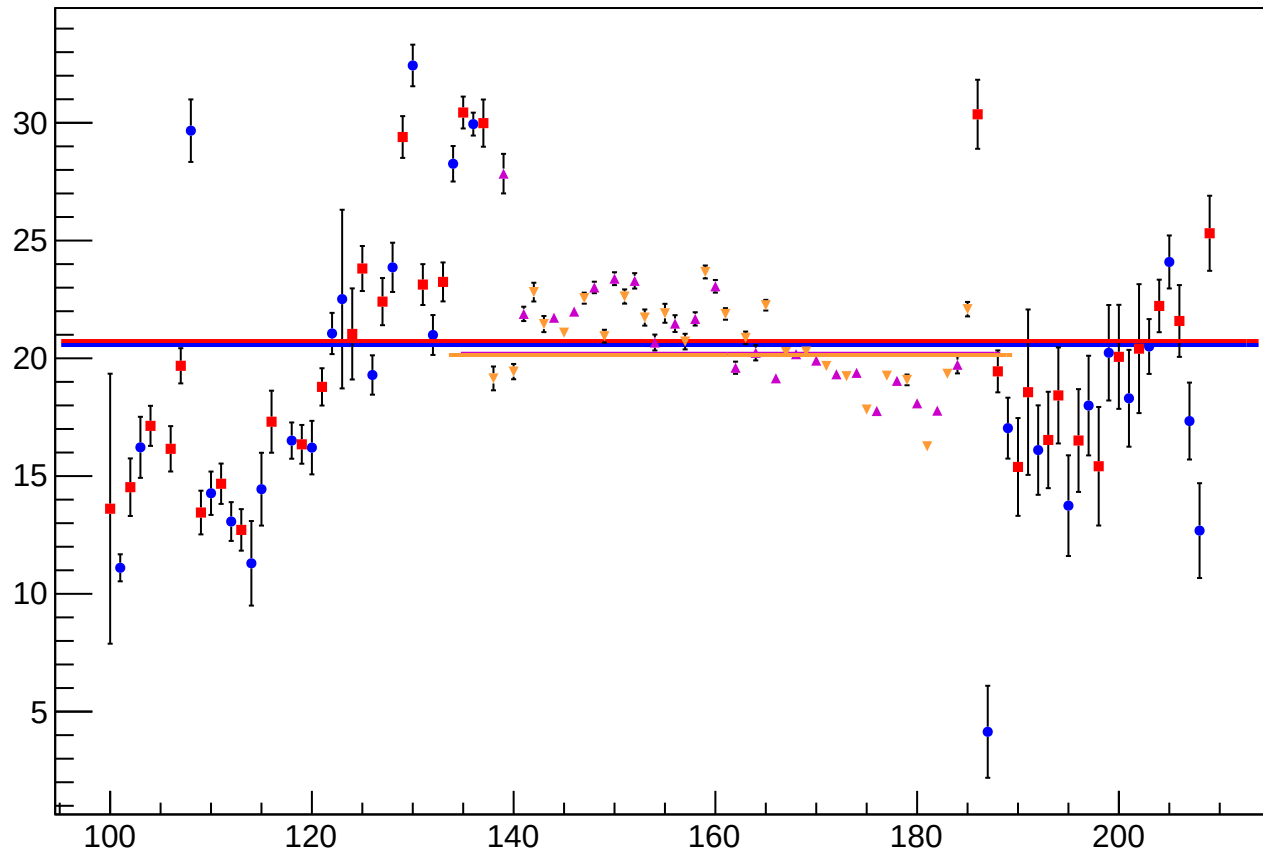
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.708 ± 0.213 $\chi^2/\text{NDF}: 2060.7/27$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -2.903 ± 0.189 $\chi^2/\text{NDF}: 4724.4/31$
 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: -1.310 ± 0.142 $\chi^2/\text{NDF}: 6945.5/59$
 In: -1.833 ± 0.050 $\chi^2/\text{NDF}: 17593.4/50$
 Out: -2.148 ± 0.050 $\chi^2/\text{NDF}: 21046.8/56$
 All: -1.991 ± 0.035 $\chi^2/\text{NDF}: 38660.2/107$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.565 $\pm$ 0.194 χ^2 /NDF: 1340.1/27

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF: 1419.1/24

Right Out: 20.735 $\pm$ 0.193 χ^2 /NDF: 798.1/31

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

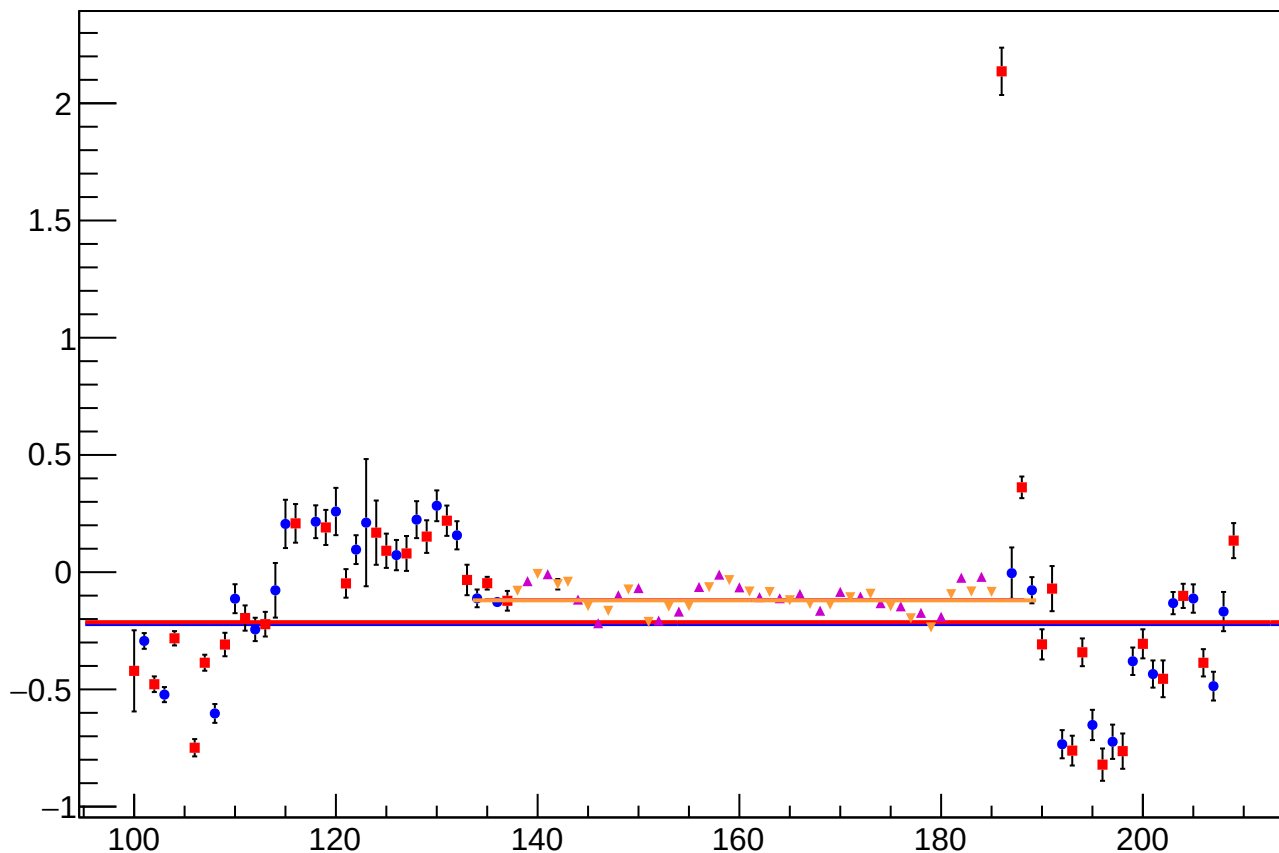
Right: 20.650 $\pm$ 0.137 χ^2 /NDF: 2138.6/59

In: 20.214 $\pm$ 0.045 χ^2 /NDF: 2791.0/50

Out: 20.173 $\pm$ 0.045 χ^2 /NDF: 2226.2/56

All: 20.193 $\pm$ 0.032 χ^2 /NDF: 5017.6/107

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.221 ± 0.010 χ^2/NDF : 697.8/27

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.213 ± 0.009 χ^2/NDF : 1492.2/31

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

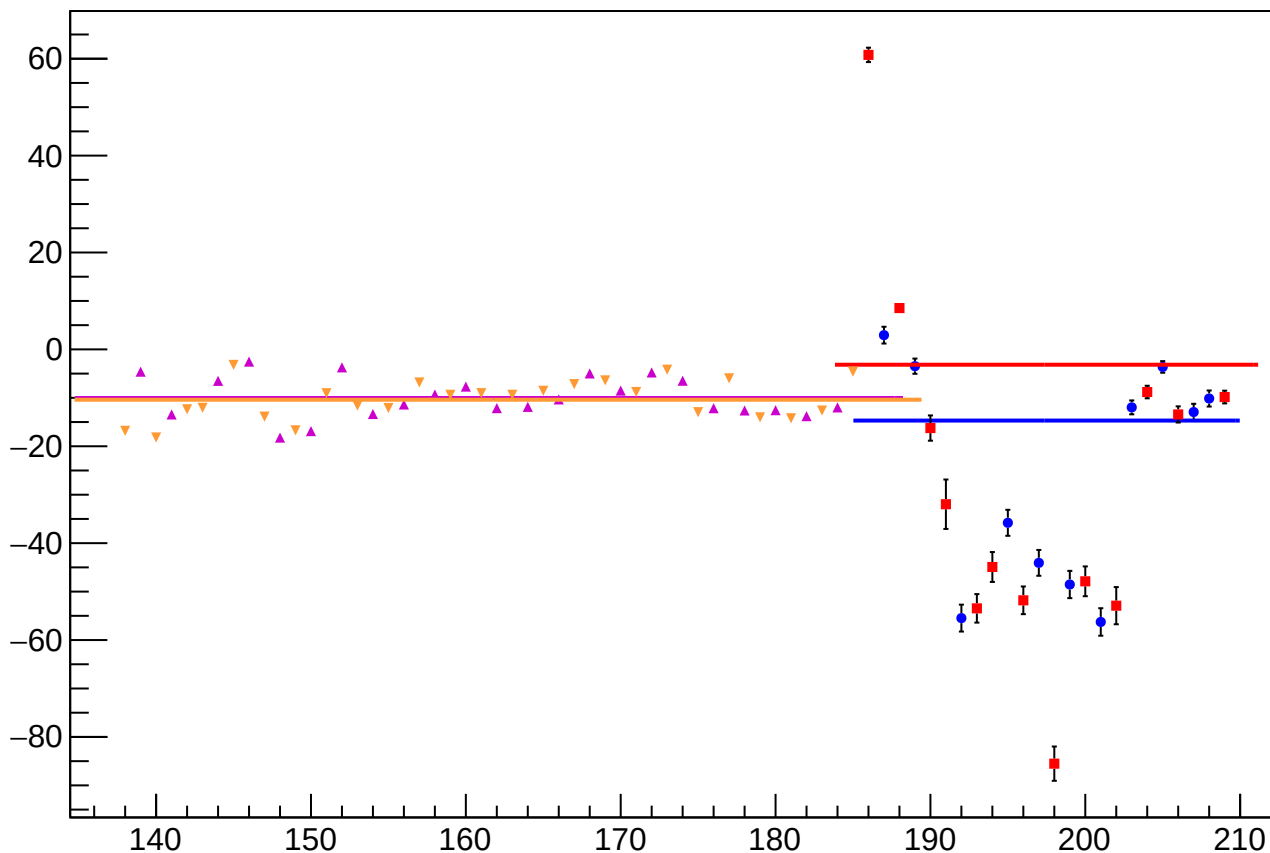
Right: -0.217 ± 0.007 χ^2/NDF : 2190.4/59

In: -0.123 ± 0.002 χ^2/NDF : 1528.2/50

Out: -0.125 ± 0.002 χ^2/NDF : 2116.9/56

All: -0.124 ± 0.001 χ^2/NDF : 3645.3/107

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.694 ± 0.551 $\chi^2/\text{NDF}: 1011.0/10$

Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$

Right Out: -3.167 ± 0.492 $\chi^2/\text{NDF}: 3862.4/12$

Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$

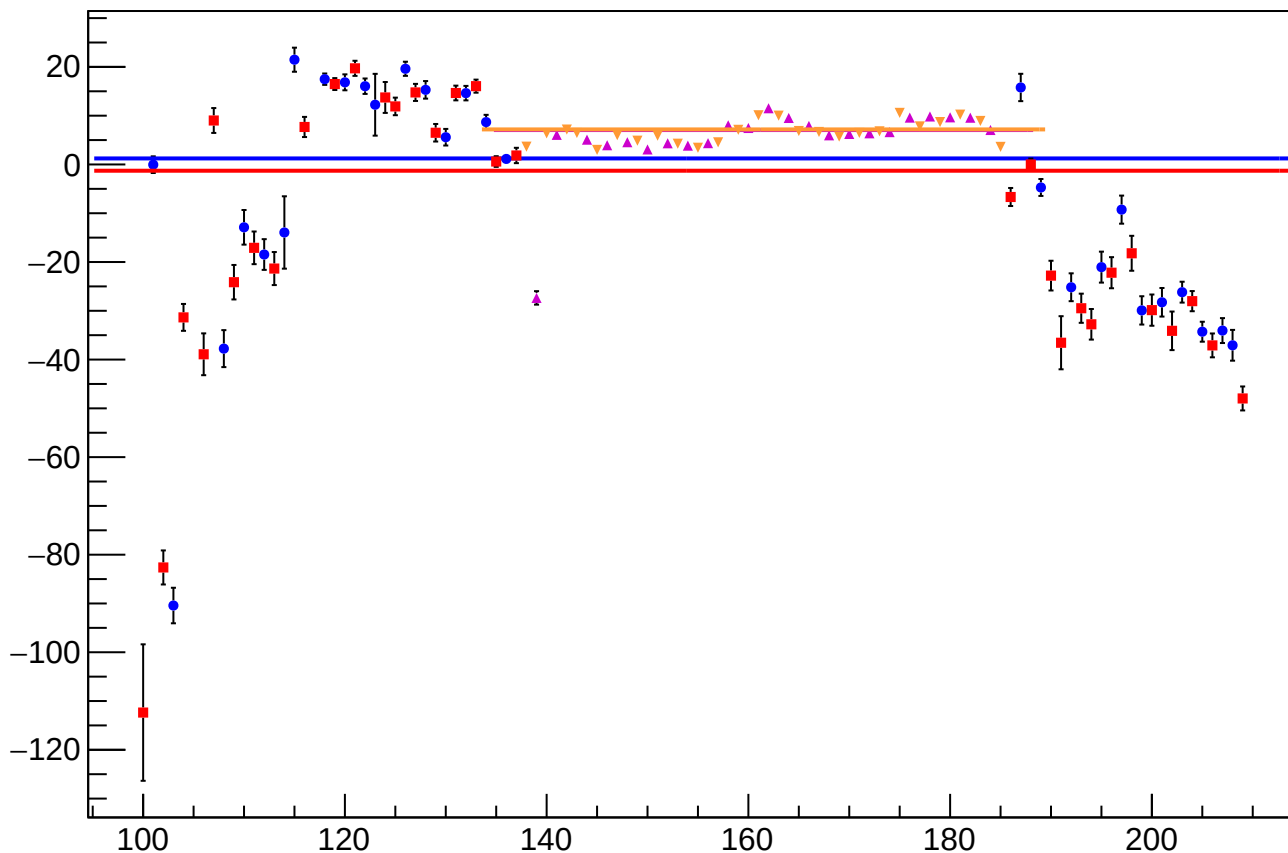
Right: -8.285 ± 0.367 $\chi^2/\text{NDF}: 5116.9/23$

In: -10.156 ± 0.088 $\chi^2/\text{NDF}: 2839.4/33$

Out: -10.168 ± 0.086 $\chi^2/\text{NDF}: 6182.7/37$

All: -10.162 ± 0.062 $\chi^2/\text{NDF}: 9022.0/71$

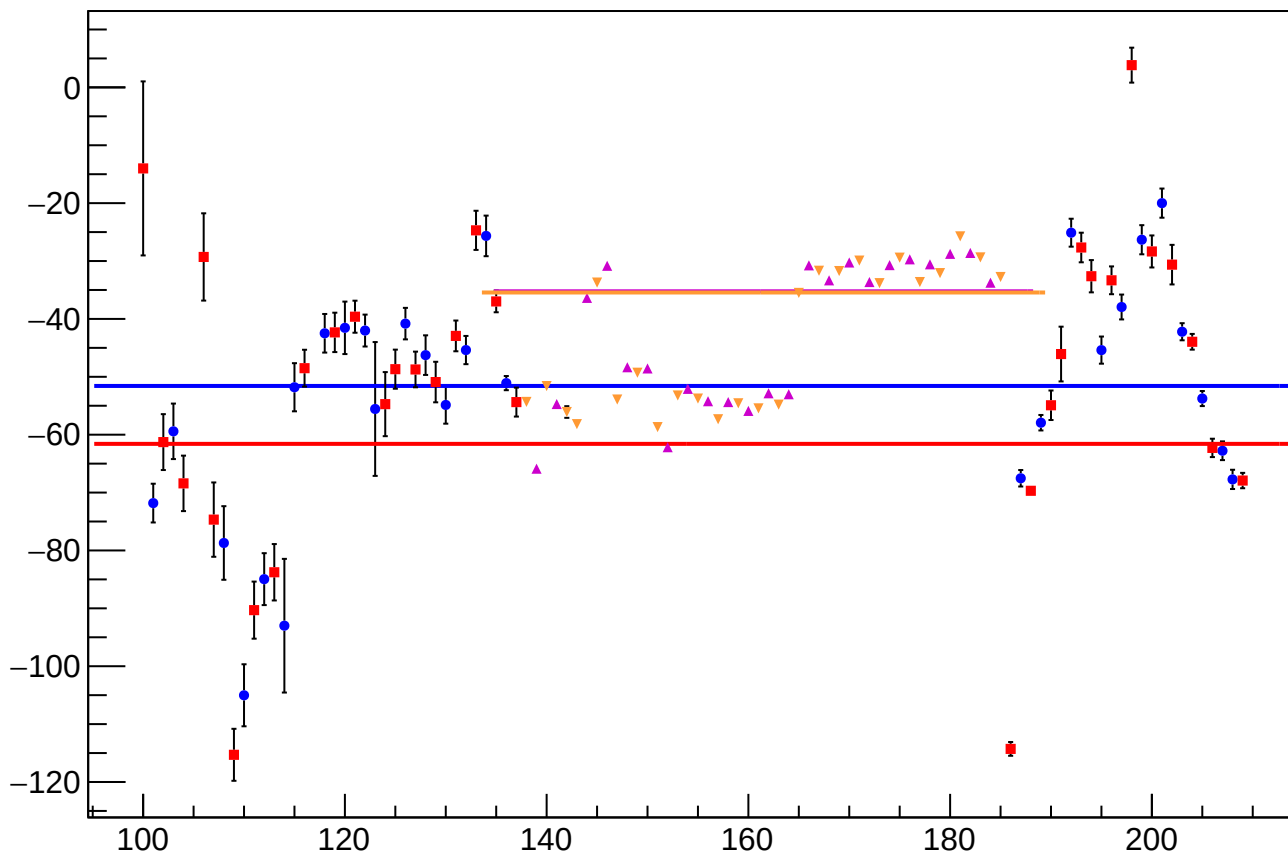
reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.235 ± 0.358 $\chi^2/\text{NDF}: 2784.8/27$
 Left Out: 7.184 ± 0.073 $\chi^2/\text{NDF}: 917.3/24$
 Right Out: -1.284 ± 0.365 $\chi^2/\text{NDF}: 3045.3/31$
 Left In: 7.053 ± 0.074 $\chi^2/\text{NDF}: 1535.8/22$

Left: 7.119 ± 0.052 $\chi^2/\text{NDF}: 2454.8/47$
 Right: -0.003 ± 0.256 $\chi^2/\text{NDF}: 5854.4/59$
 In: 6.814 ± 0.073 $\chi^2/\text{NDF}: 4573.2/50$
 Out: 6.854 ± 0.072 $\chi^2/\text{NDF}: 4480.6/56$
 All: 6.834 ± 0.051 $\chi^2/\text{NDF}: 9053.9/107$

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -51.579 ± 0.425 χ^2/NDF : 1088.8/27

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -61.586 ± 0.382 χ^2/NDF : 4168.3/31

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

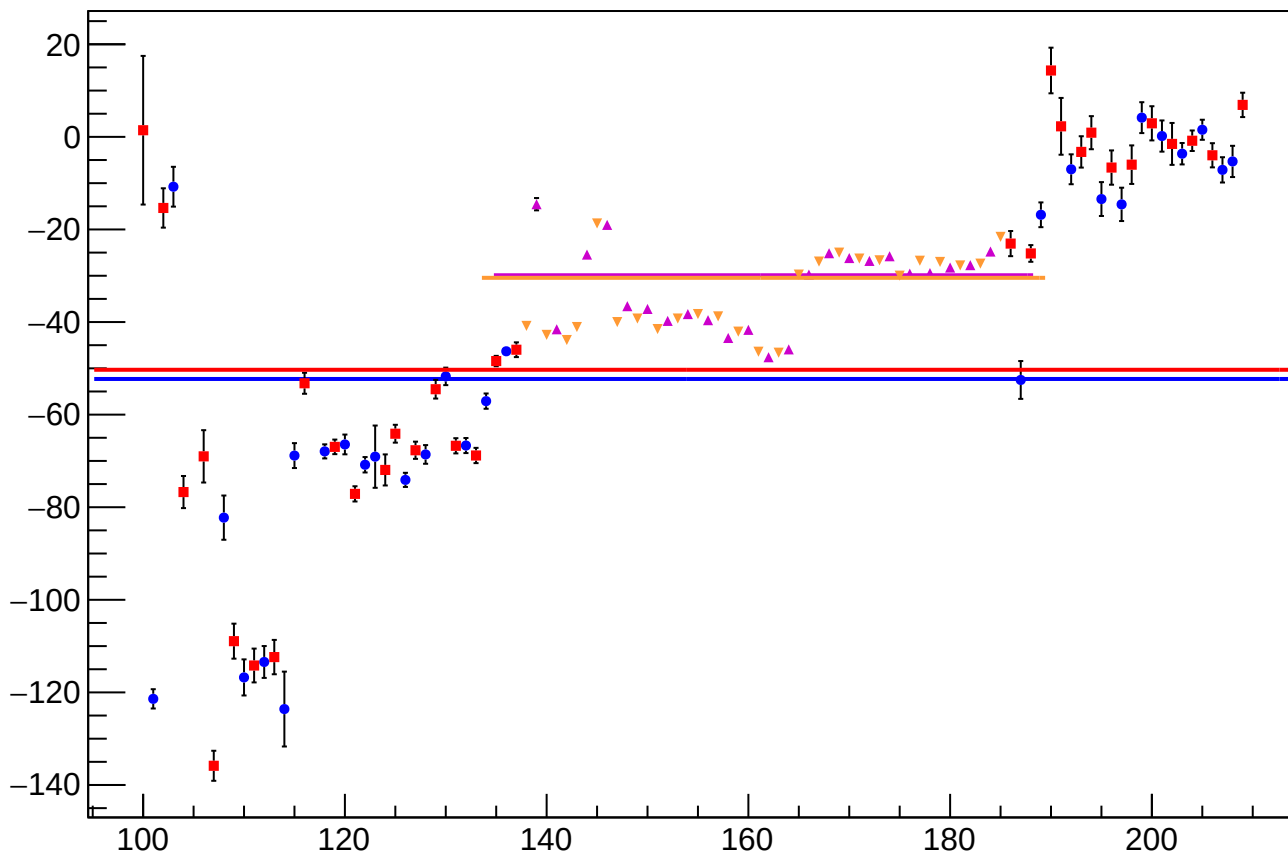
Right: -57.105 ± 0.284 χ^2/NDF : 5564.0/59

In: -35.934 ± 0.088 χ^2/NDF : 14111.2/50

Out: -36.779 ± 0.087 χ^2/NDF : 21390.8/56

All: -36.363 ± 0.062 χ^2/NDF : 35548.7/107

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -52.297 $\pm$ 0.402 χ^2/NDF : 5278.6/27

Left Out: -30.448 $\pm$ 0.082 χ^2/NDF : 8167.7/24

Right Out: -50.310 $\pm$ 0.419 χ^2/NDF : 5269.8/31

Left In: -29.892 $\pm$ 0.083 χ^2/NDF : 7115.0/22

Left: -30.174 $\pm$ 0.058 χ^2/NDF : 15305.7/47

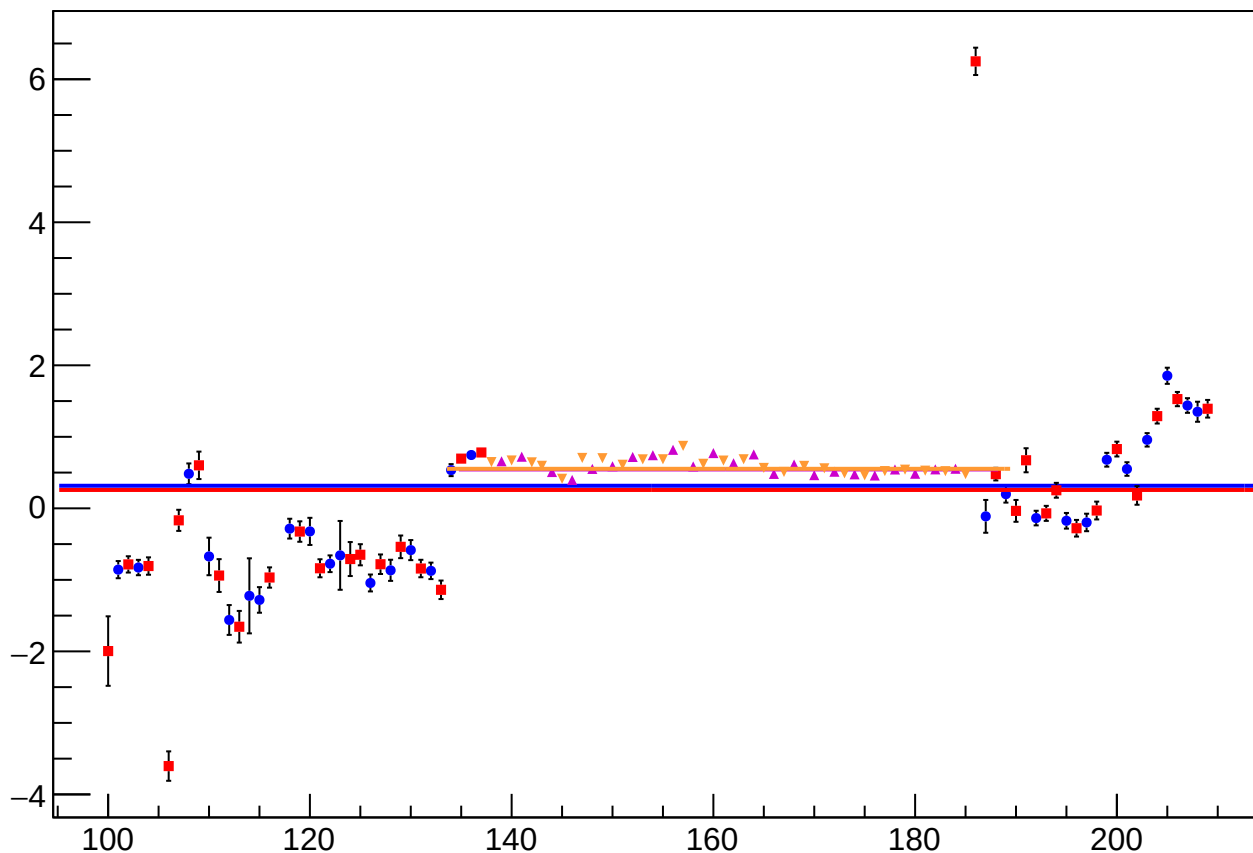
Right: -51.346 $\pm$ 0.290 χ^2/NDF : 10560.2/59

In: -30.801 $\pm$ 0.081 χ^2/NDF : 15380.7/50

Out: -31.172 $\pm$ 0.080 χ^2/NDF : 15602.5/56

All: -30.989 $\pm$ 0.057 χ^2/NDF : 30993.8/107

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.316 $\pm$ 0.020 χ^2 /NDF: 1521.8/27

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF: 542.1/24

Right Out: 0.257 $\pm$ 0.020 χ^2 /NDF: 2716.2/31

Left In: 0.544 $\pm$ 0.004 χ^2 /NDF: 655.9/22

Left: 0.548 $\pm$ 0.003 χ^2 /NDF: 1200.9/47

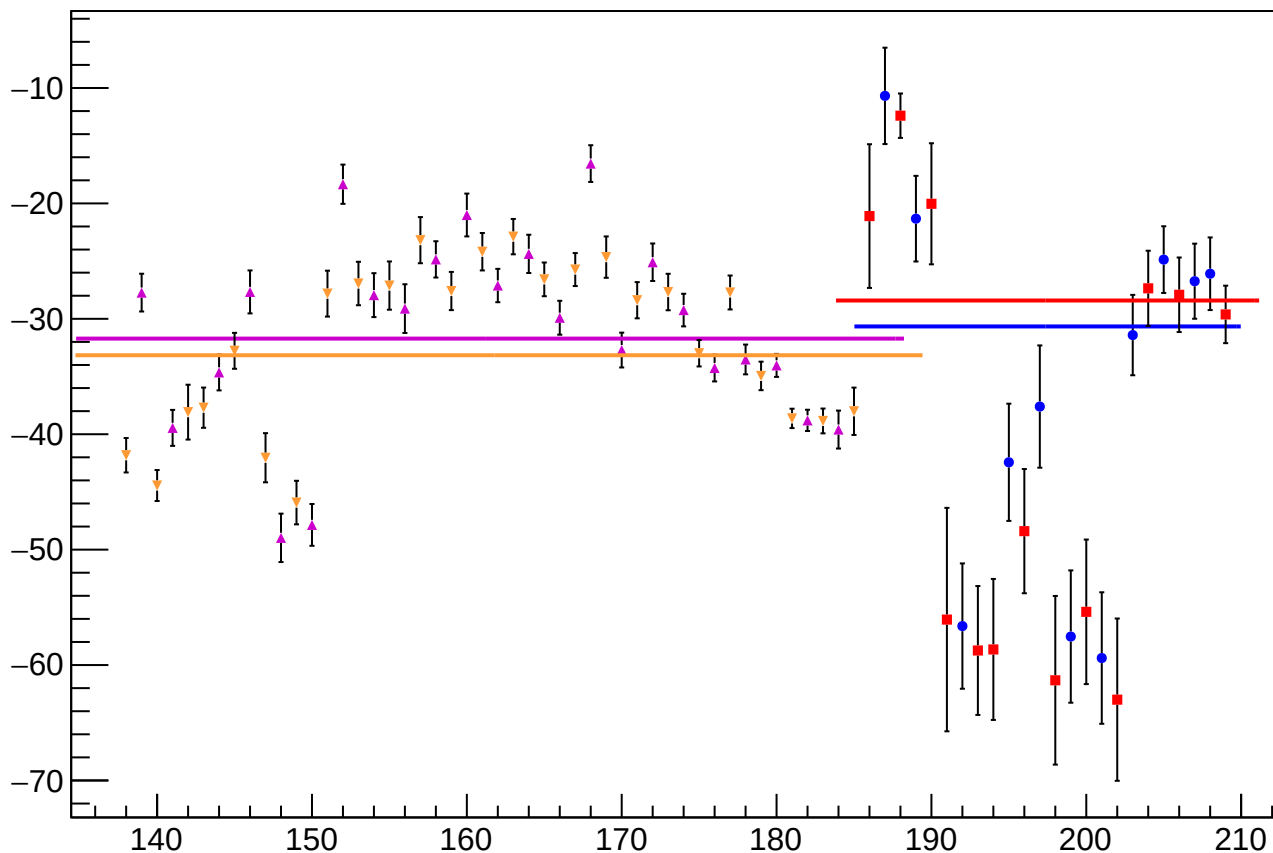
Right: 0.288 $\pm$ 0.014 χ^2 /NDF: 4242.4/59

In: 0.535 $\pm$ 0.004 χ^2 /NDF: 2308.9/50

Out: 0.543 $\pm$ 0.004 χ^2 /NDF: 3462.5/56

All: 0.539 $\pm$ 0.003 χ^2 /NDF: 5773.7/107

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.661 ± 1.198 χ^2/NDF : 114.2/10

Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24

Right Out: -28.413 ± 1.083 χ^2/NDF : 212.5/12

Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47

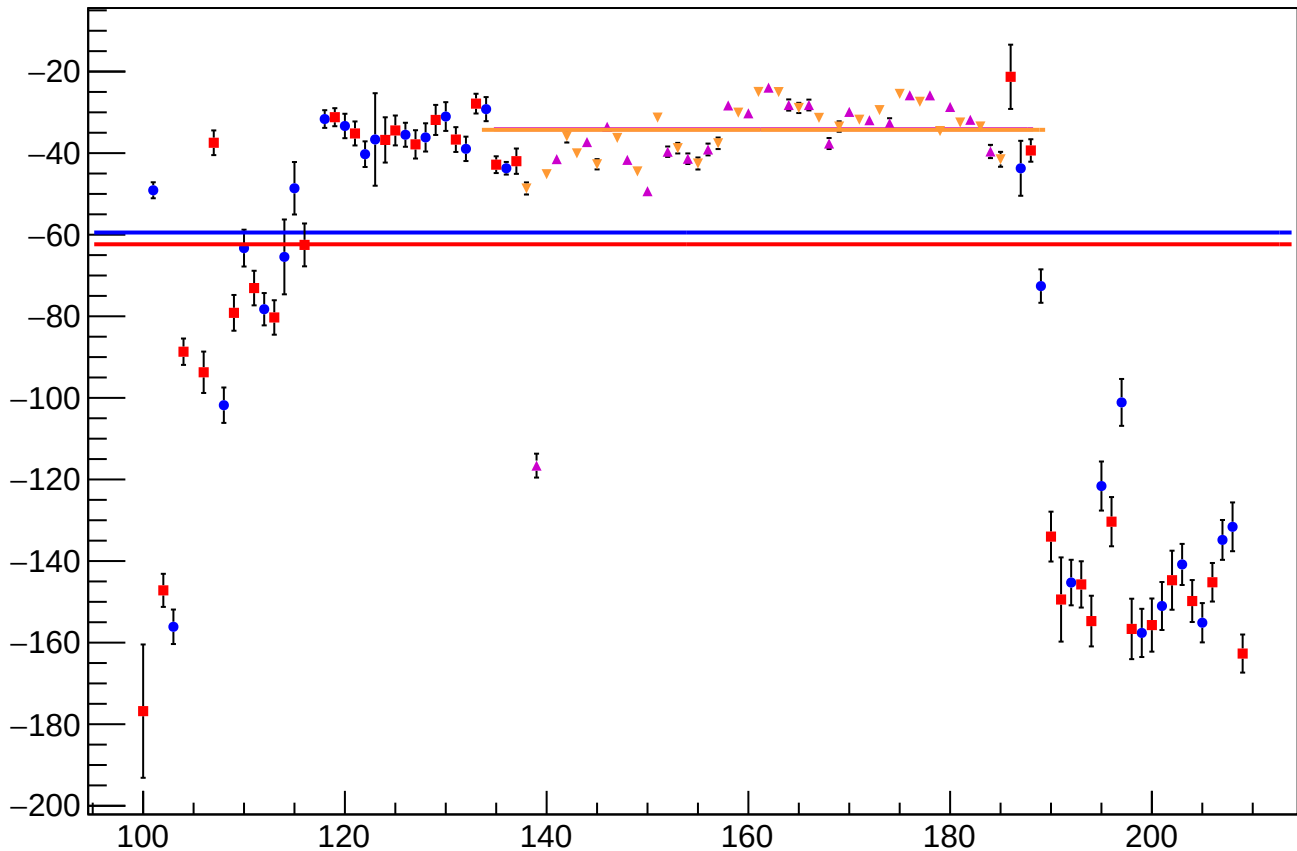
Right: -29.425 ± 0.803 χ^2/NDF : 328.7/23

In: -31.649 ± 0.299 χ^2/NDF : 657.2/33

Out: -32.818 ± 0.289 χ^2/NDF : 730.4/37

All: -32.253 ± 0.208 χ^2/NDF : 1395.5/71

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -59.462 ± 0.666 $\chi^2/\text{NDF}: 3354.9/27$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -62.346 ± 0.679 $\chi^2/\text{NDF}: 4011.4/31$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

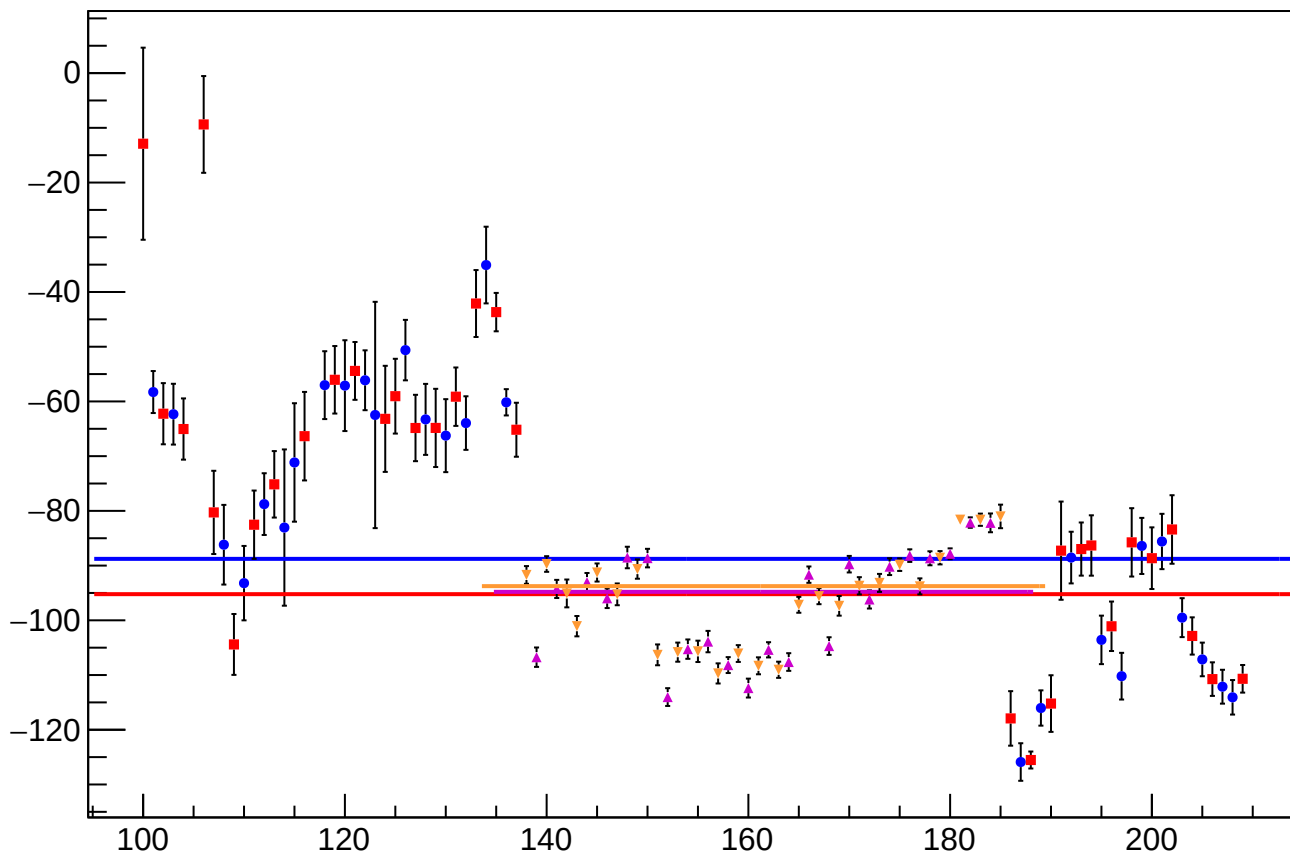
Right: -60.876 ± 0.475 $\chi^2/\text{NDF}: 7375.5/59$

In: -37.291 ± 0.235 $\chi^2/\text{NDF}: 6073.6/50$

Out: -37.437 ± 0.228 $\chi^2/\text{NDF}: 6222.6/56$

All: -37.366 ± 0.163 $\chi^2/\text{NDF}: 12296.4/107$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -88.770 $\pm$ 0.853 χ^2 /NDF: 862.9/27

Left Out: -93.754 $\pm$ 0.302 χ^2 /NDF:883.1/24

Right Out: -95.220 $\pm$ 0.794 χ^2 /NDF: 1271.8/31

Left In: -94.796 $\pm$ 0.308 χ^2 /NDF:974.7/22

Left: -94.264 $\pm$ 0.216 χ^2 /NDF: 1863.6/47

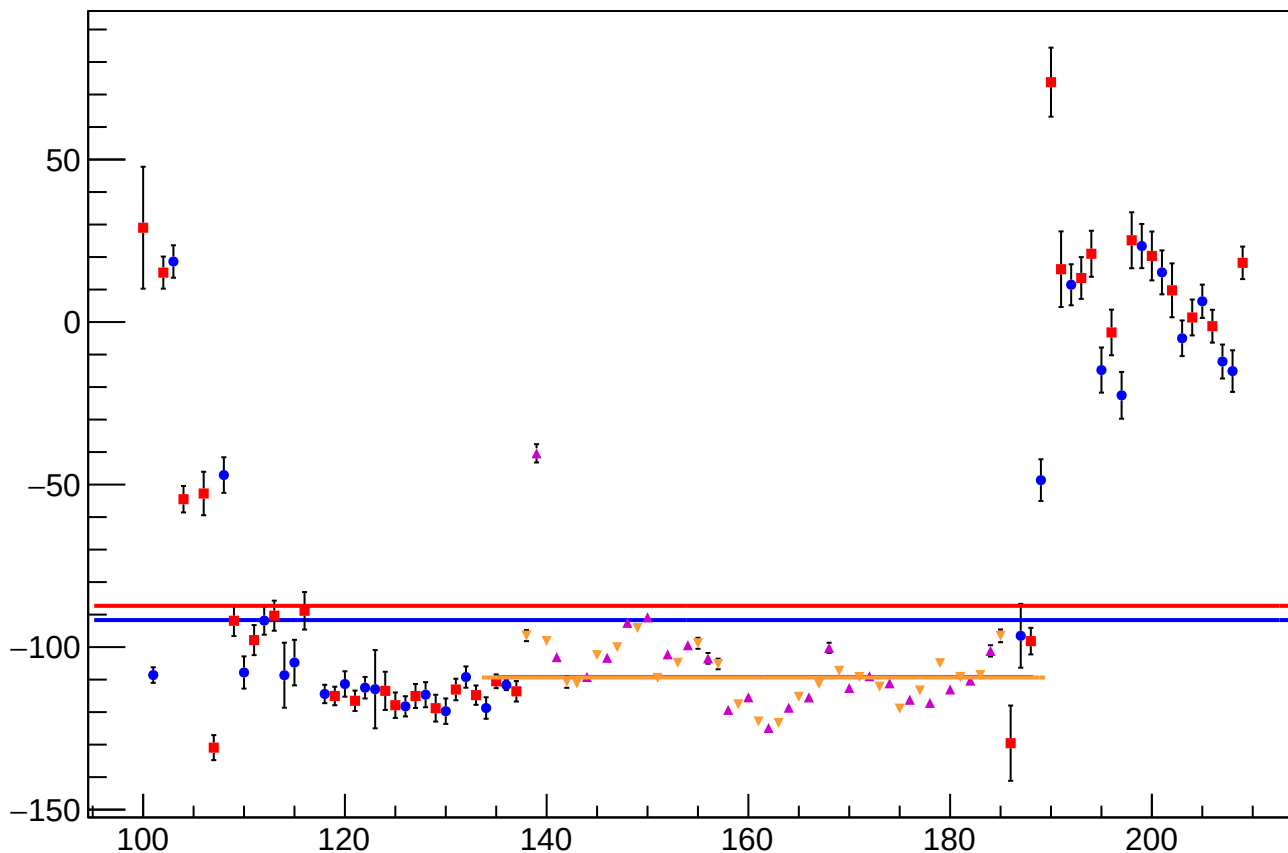
Right: -92.223 $\pm$ 0.581 χ^2 /NDF: 2165.3/59

In: -94.099 $\pm$ 0.290 χ^2 /NDF:1881.8/50

Out: -93.939 $\pm$ 0.282 χ^2 /NDF:2157.9/56

All: -94.017 $\pm$ 0.202 χ^2 /NDF: 4039.8/107

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -91.686 ± 0.752 χ^2/NDF : 3230.7/27

Left Out: -109.351 ± 0.271 χ^2/NDF : 826.8/24

Right Out: -87.301 ± 0.779 χ^2/NDF : 3870.0/31

Left In: -109.184 ± 0.280 χ^2/NDF : 1501.1/22

Left: -109.270 ± 0.195 χ^2/NDF : 2328.1/47

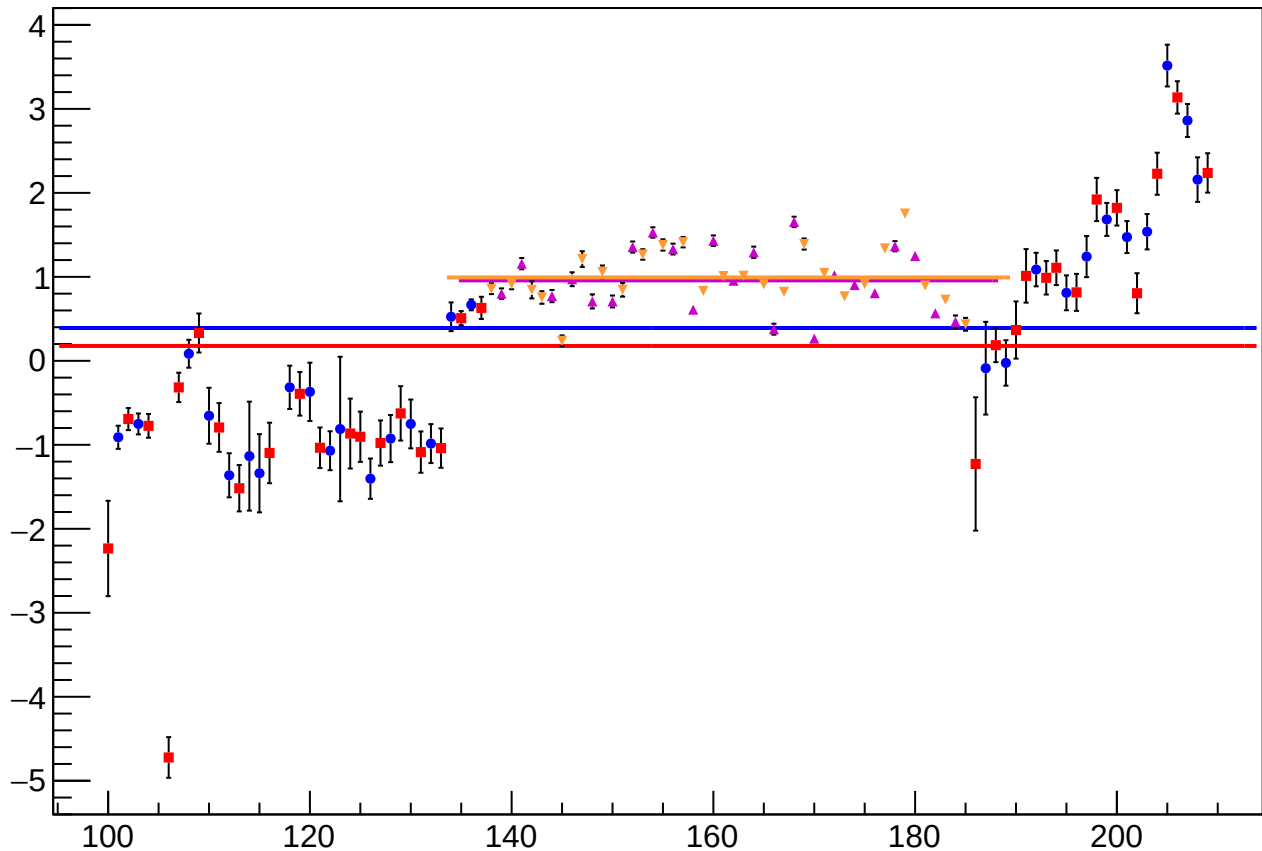
Right: -89.571 ± 0.541 χ^2/NDF : 7117.1/59

In: -107.054 ± 0.262 χ^2/NDF : 5207.6/50

Out: -106.965 ± 0.256 χ^2/NDF : 5412.0/56

All: -107.008 ± 0.183 χ^2/NDF : 10619.7/107

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.391 ± 0.036 χ^2/NDF : 949.1/27

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: 0.177 ± 0.037 χ^2/NDF : 1289.5/31

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

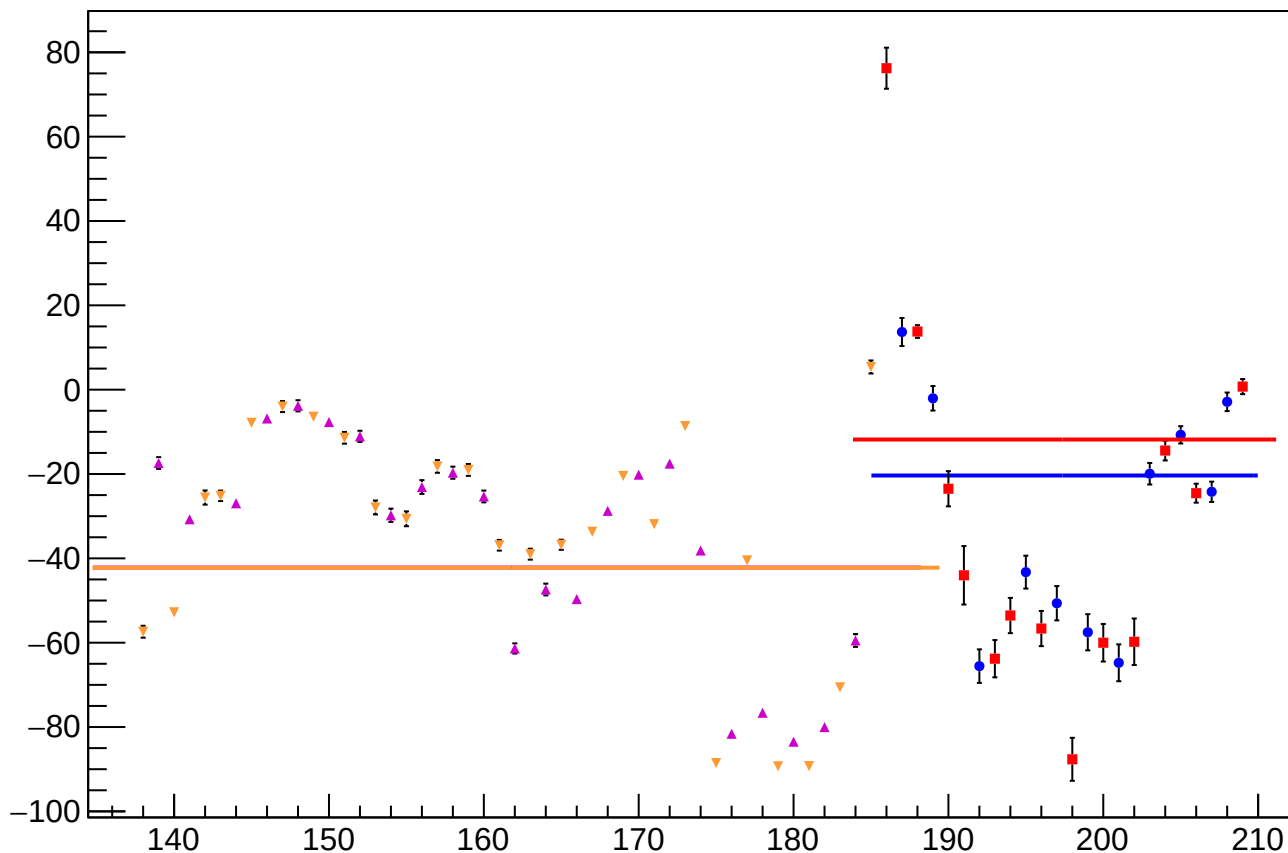
Right: 0.286 ± 0.026 χ^2/NDF : 2255.9/59

In: 0.895 ± 0.012 χ^2/NDF : 2064.4/50

Out: 0.909 ± 0.012 χ^2/NDF : 2372.9/56

All: 0.902 ± 0.008 χ^2/NDF : 4437.9/107

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -20.354 ± 0.886 $\chi^2/\text{NDF}: 629.5/10$

Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$

Right Out: -11.820 ± 0.807 $\chi^2/\text{NDF}: 1495.0/12$

Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$

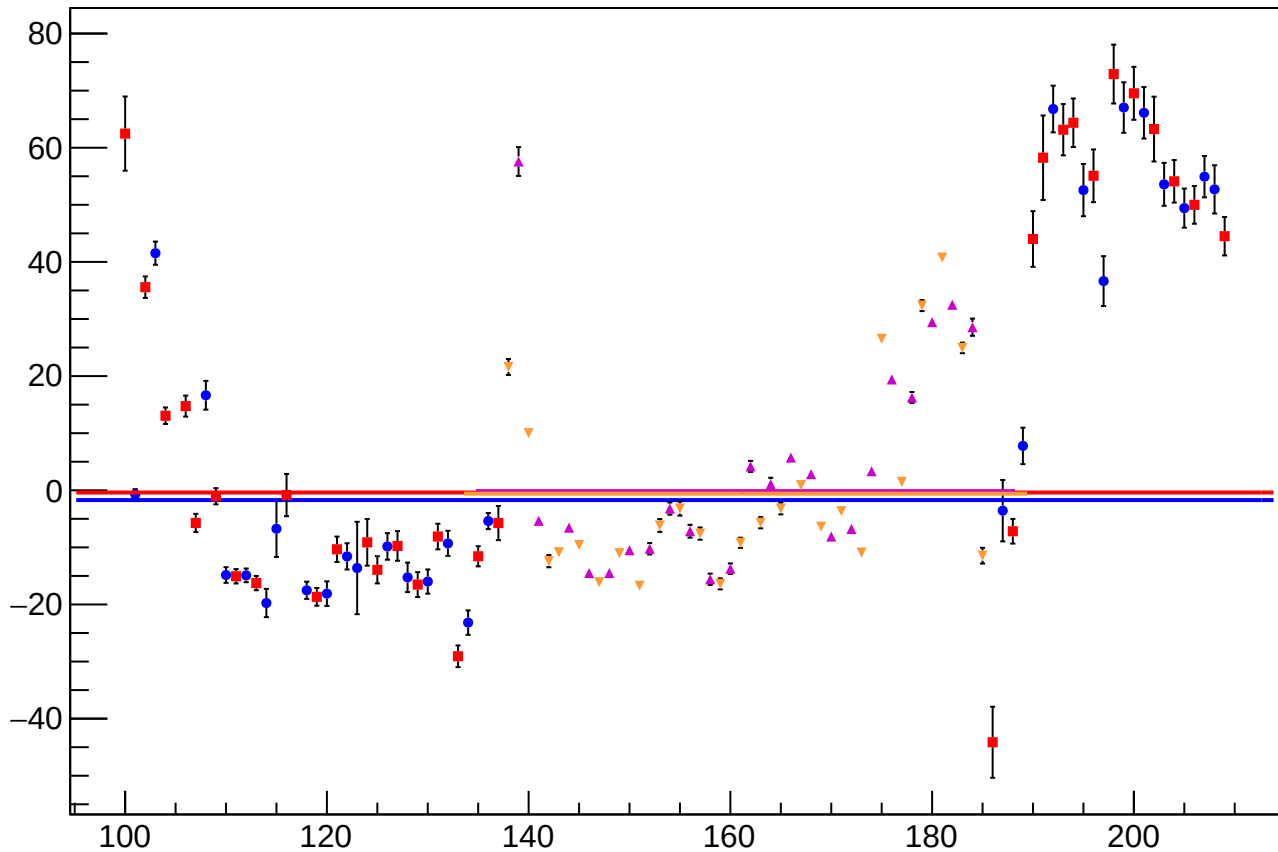
Right: -15.687 ± 0.596 $\chi^2/\text{NDF}: 2175.3/23$

In: -40.831 ± 0.220 $\chi^2/\text{NDF}: 15774.7/33$

Out: -40.072 ± 0.214 $\chi^2/\text{NDF}: 21124.2/37$

All: -40.441 ± 0.153 $\chi^2/\text{NDF}: 36905.0/71$

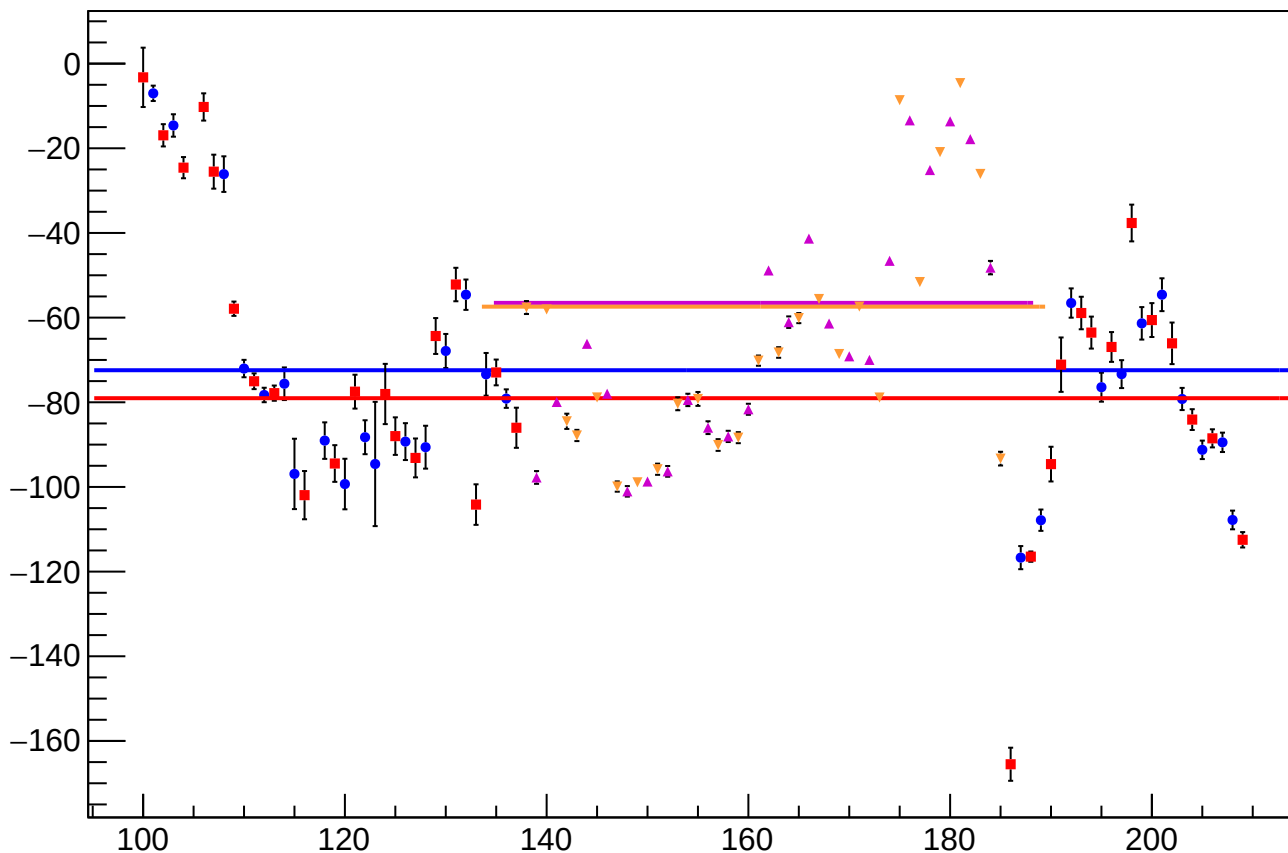
reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.718 ± 0.406 χ^2/NDF : 2992.6/27
 Left Out: -0.590 ± 0.174 χ^2/NDF : 8750.9/24
 Right Out: -0.394 ± 0.400 χ^2/NDF : 3427.1/31
 Left In: -0.142 ± 0.179 χ^2/NDF : 6862.5/22

Left: -0.372 ± 0.125 χ^2/NDF : 15616.6/47
 Right: -1.047 ± 0.285 χ^2/NDF : 6425.1/59
 In: -0.399 ± 0.164 χ^2/NDF : 9867.7/50
 Out: -0.559 ± 0.160 χ^2/NDF : 12178.2/56
 All: -0.481 ± 0.114 χ^2/NDF : 22046.4/107

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.428 ± 0.556 χ^2/NDF : 2936.5/27

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -79.035 ± 0.507 χ^2/NDF : 4063.6/31

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

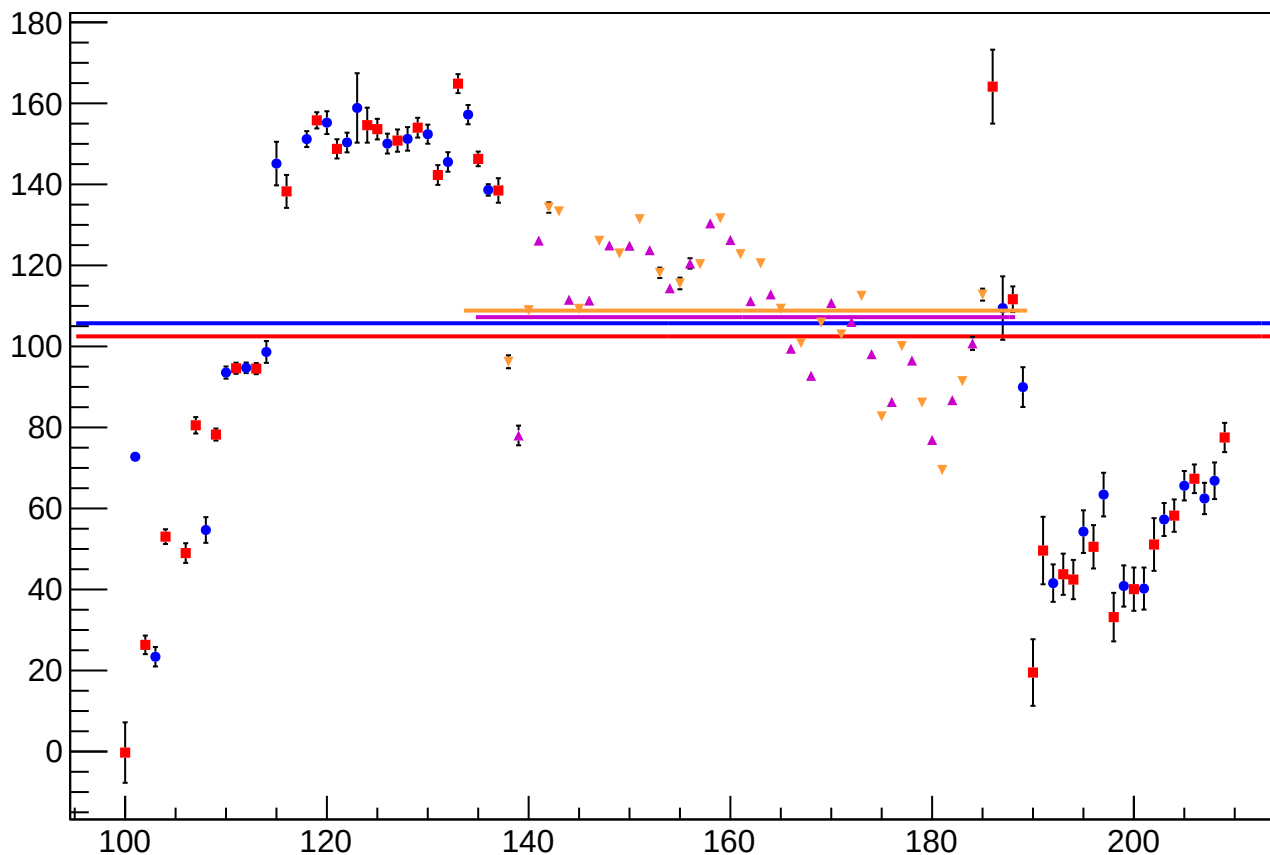
Right: -76.041 ± 0.375 χ^2/NDF : 7077.2/59

In: -58.790 ± 0.210 χ^2/NDF : 19989.8/50

Out: -60.929 ± 0.204 χ^2/NDF : 24193.4/56

All: -59.890 ± 0.146 χ^2/NDF : 44236.5/107

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 105.717 $\pm$ 0.463 χ^2 /NDF: 7130.0/27

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 102.480 $\pm$ 0.458 χ^2 /NDF: 8315.1/31

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

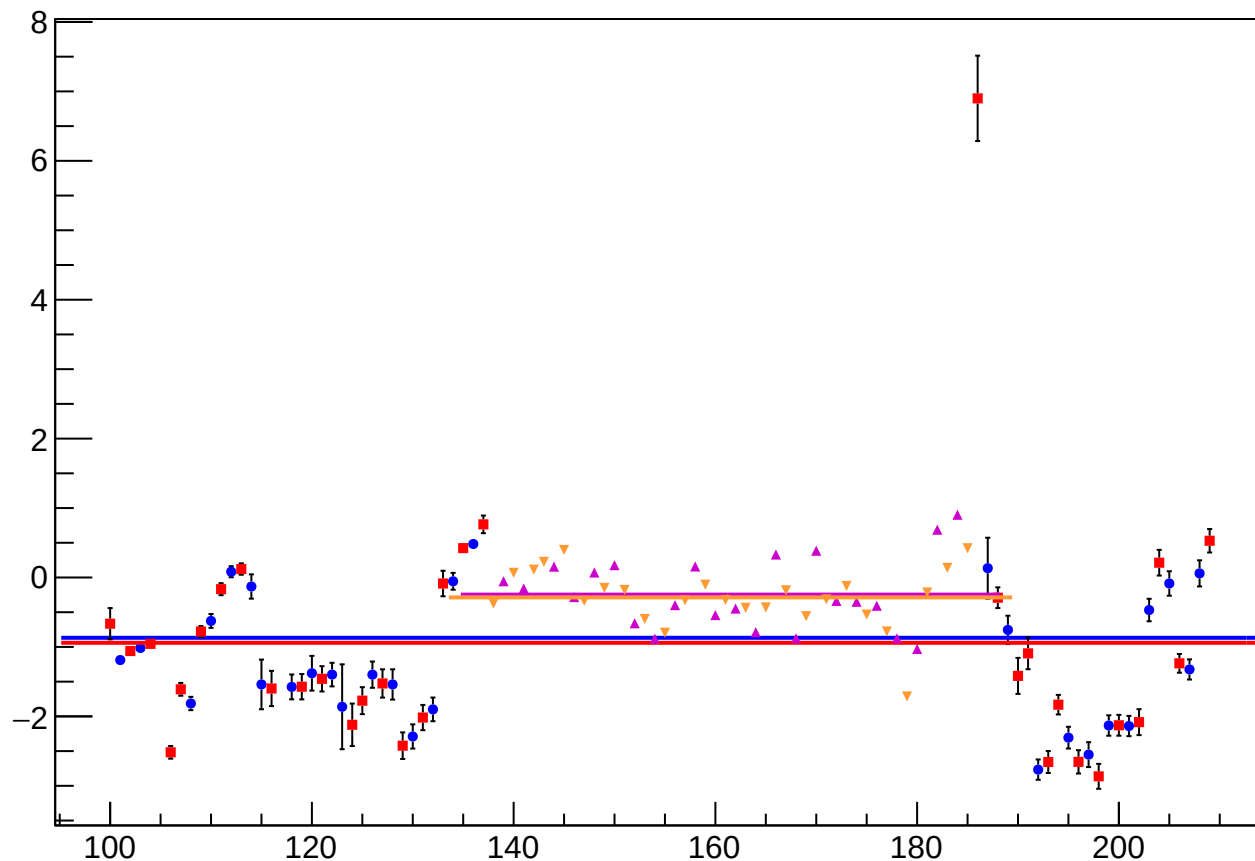
Right: 104.084 $\pm$ 0.326 χ^2 /NDF: 15469.9/59

In: 106.983 $\pm$ 0.185 χ^2 /NDF: 12704.2/50

Out: 107.851 $\pm$ 0.181 χ^2 /NDF: 15878.0/56

All: 107.427 $\pm$ 0.130 χ^2 /NDF: 28593.5/107

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.868 ± 0.023 χ^2/NDF : 1591.3/27

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.940 ± 0.022 χ^2/NDF : 2110.7/31

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

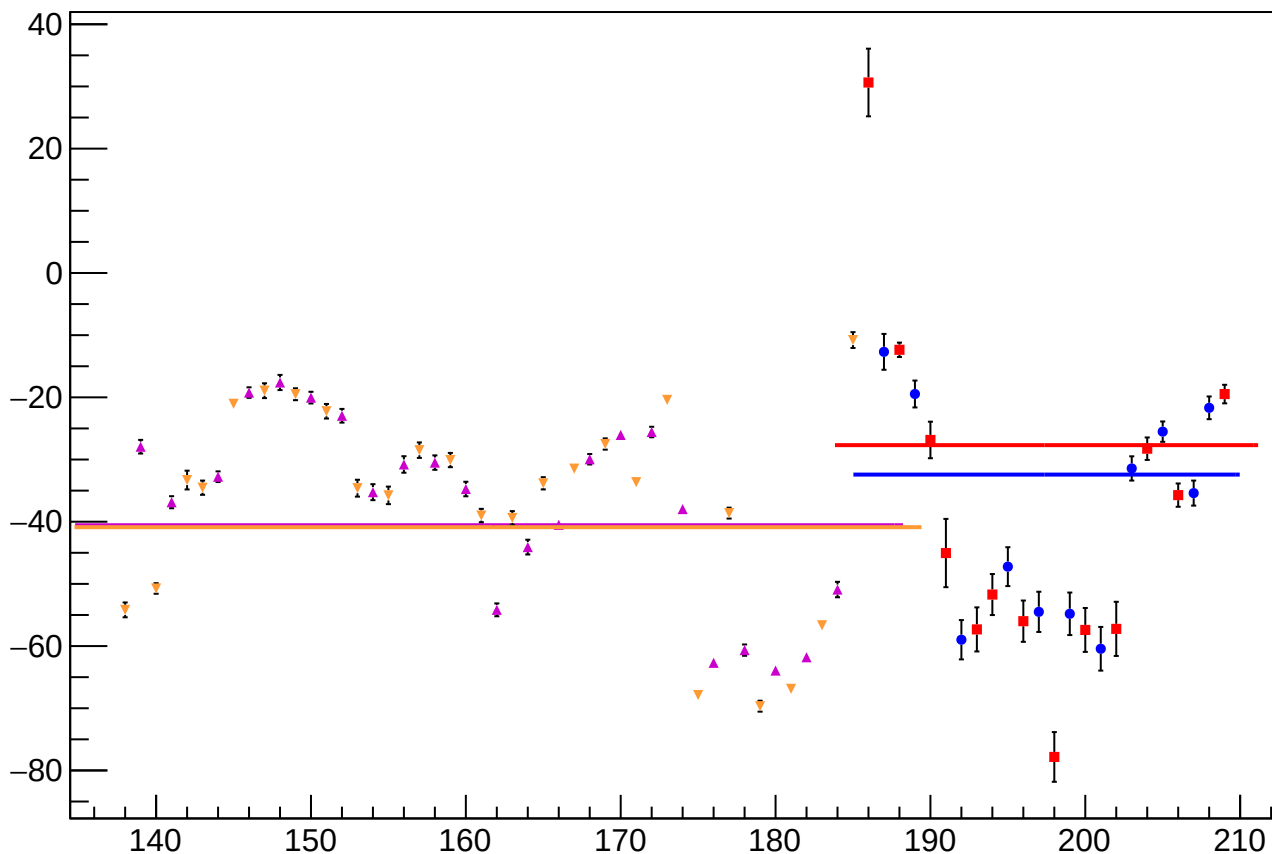
Right: -0.906 ± 0.016 χ^2/NDF : 3707.1/59

In: -0.333 ± 0.009 χ^2/NDF : 5010.7/50

Out: -0.384 ± 0.008 χ^2/NDF : 4932.2/56

All: -0.359 ± 0.006 χ^2/NDF : 9960.7/107

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



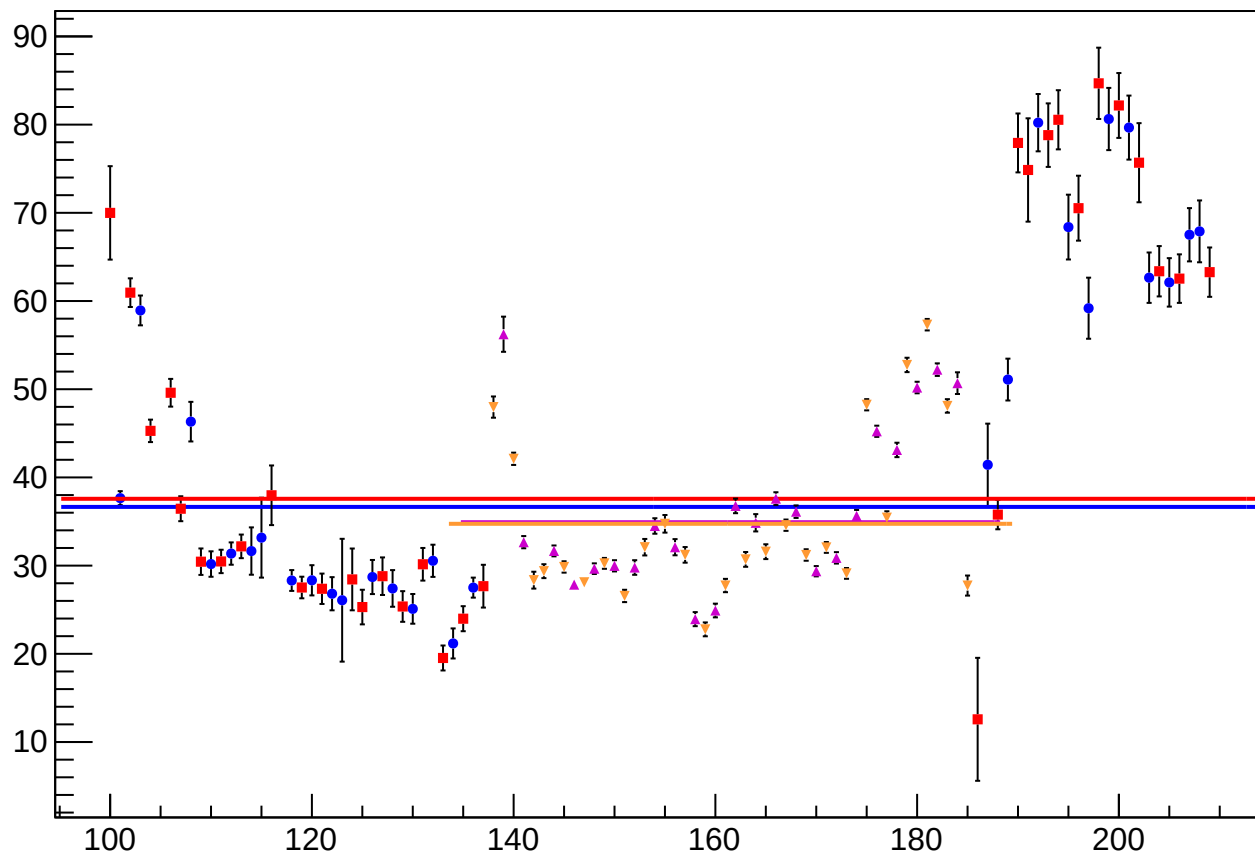
Right In: -32.422 ± 0.710 χ^2/NDF : 383.6/10
 Left Out: -40.880 ± 0.186 χ^2/NDF : 9123.2/24
 Right Out: -27.687 ± 0.641 χ^2/NDF : 819.9/12
 Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47
 Right: -29.814 ± 0.476 χ^2/NDF : 1228.0/23

In: -40.024 ± 0.183 χ^2/NDF : 7461.0/33
 Out: -39.855 ± 0.179 χ^2/NDF : 10333.3/37

All: -39.937 ± 0.128 χ^2/NDF : 17794.8/71

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 36.657 $\pm$ 0.350 χ^2 /NDF: 1564.3/27

Left Out: 34.741 $\pm$ 0.147 χ^2 /NDF:3693.2/24

Right Out: 37.577 $\pm$ 0.348 χ^2 /NDF: 2088.9/31

Left In: 34.922 $\pm$ 0.152 χ^2 /NDF:2672.9/22

Left: 34.829 $\pm$ 0.106 χ^2 /NDF: 6366.8/47

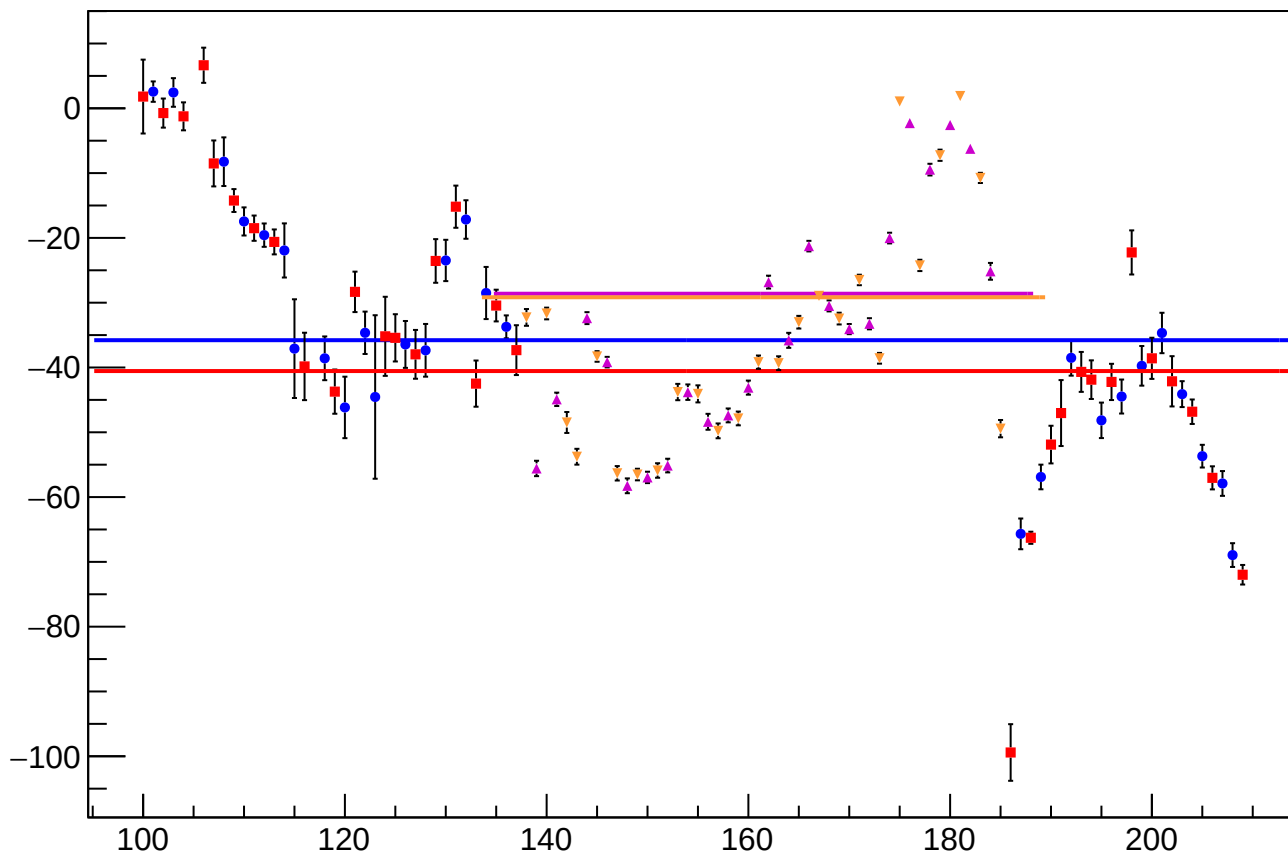
Right: 37.120 $\pm$ 0.247 χ^2 /NDF: 3656.7/59

In: 35.196 $\pm$ 0.139 χ^2 /NDF:4257.8/50

Out: 35.173 $\pm$ 0.136 χ^2 /NDF:5838.4/56

All: 35.184 $\pm$ 0.097 χ^2 /NDF: 10096.2/107

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -35.788 ± 0.474 χ^2/NDF : 2074.7/27

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -40.550 ± 0.431 χ^2/NDF : 3183.1/31

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

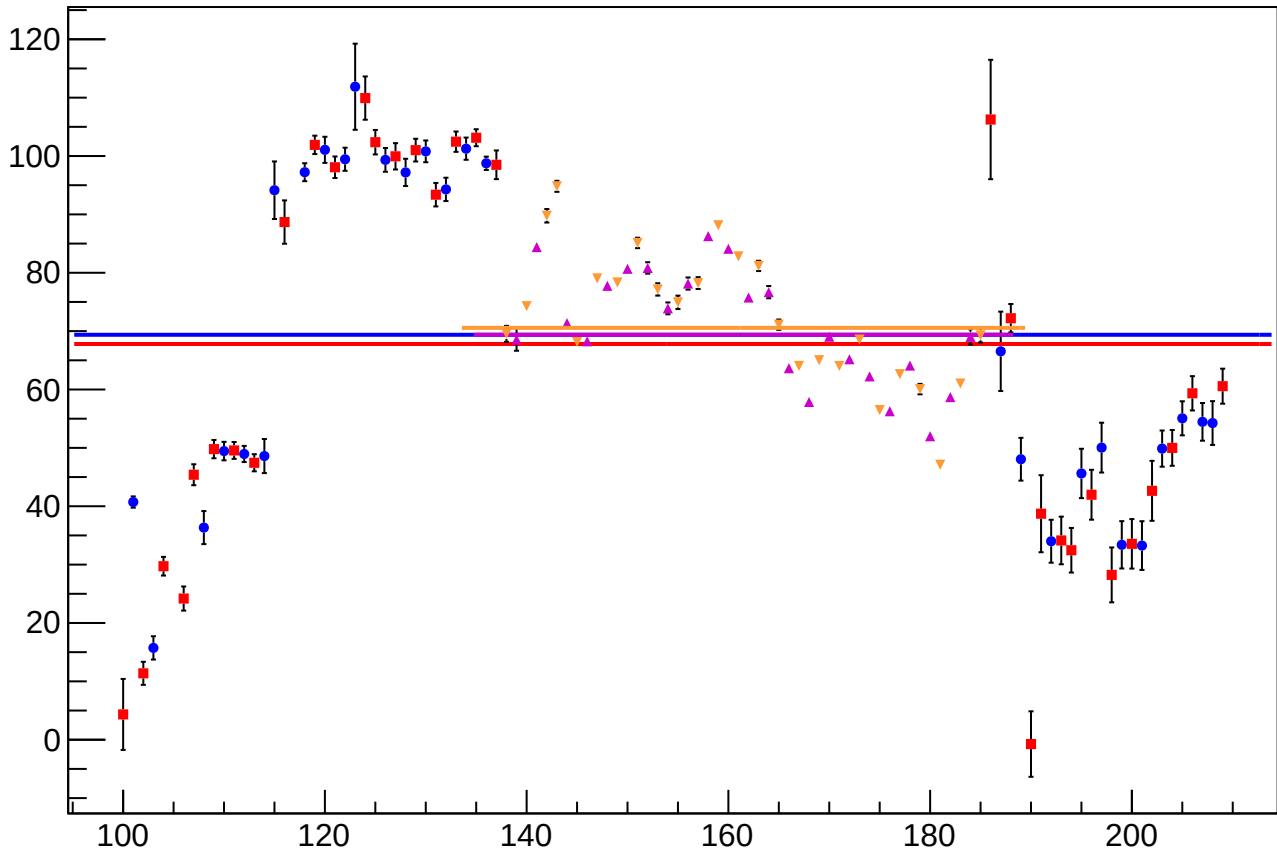
Right: -38.395 ± 0.319 χ^2/NDF : 5313.1/59

In: -29.609 ± 0.176 χ^2/NDF : 11313.2/50

Out: -30.970 ± 0.172 χ^2/NDF : 13897.5/56

All: -30.308 ± 0.123 χ^2/NDF : 25241.3/107

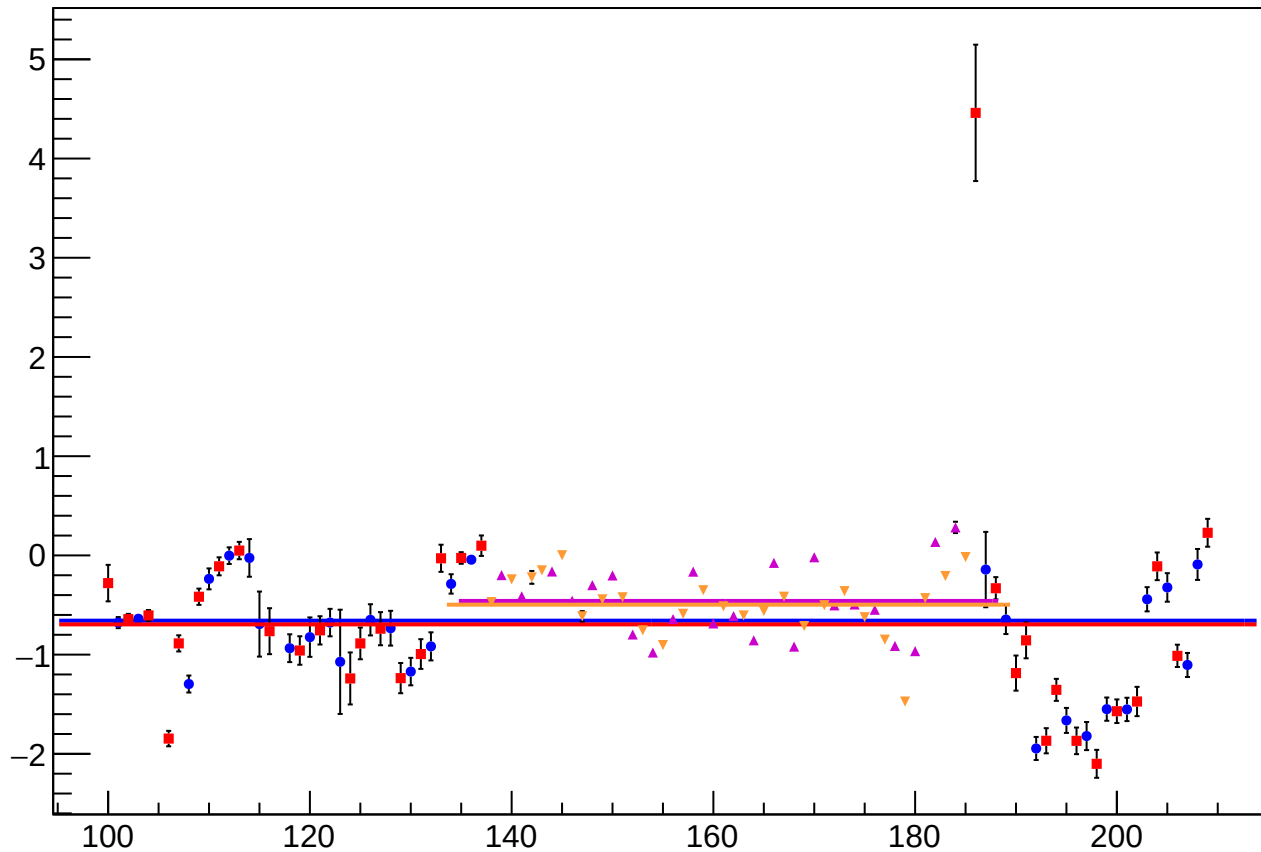
reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 69.375 ± 0.401 χ^2/NDF : 5159.8/27
 Left Out: 70.563 ± 0.166 χ^2/NDF : 4589.1/24
 Right Out: 67.795 ± 0.402 χ^2/NDF : 6126.2/31
 Left In: 69.387 ± 0.170 χ^2/NDF : 3321.8/22

Left: 69.989 ± 0.119 χ^2/NDF : 7935.4/47
 Right: 68.586 ± 0.284 χ^2/NDF : 11293.8/59
 In: 69.385 ± 0.157 χ^2/NDF : 8481.6/50
 Out: 70.158 ± 0.154 χ^2/NDF : 10755.9/56
 All: 69.779 ± 0.110 χ^2/NDF : 19249.9/107

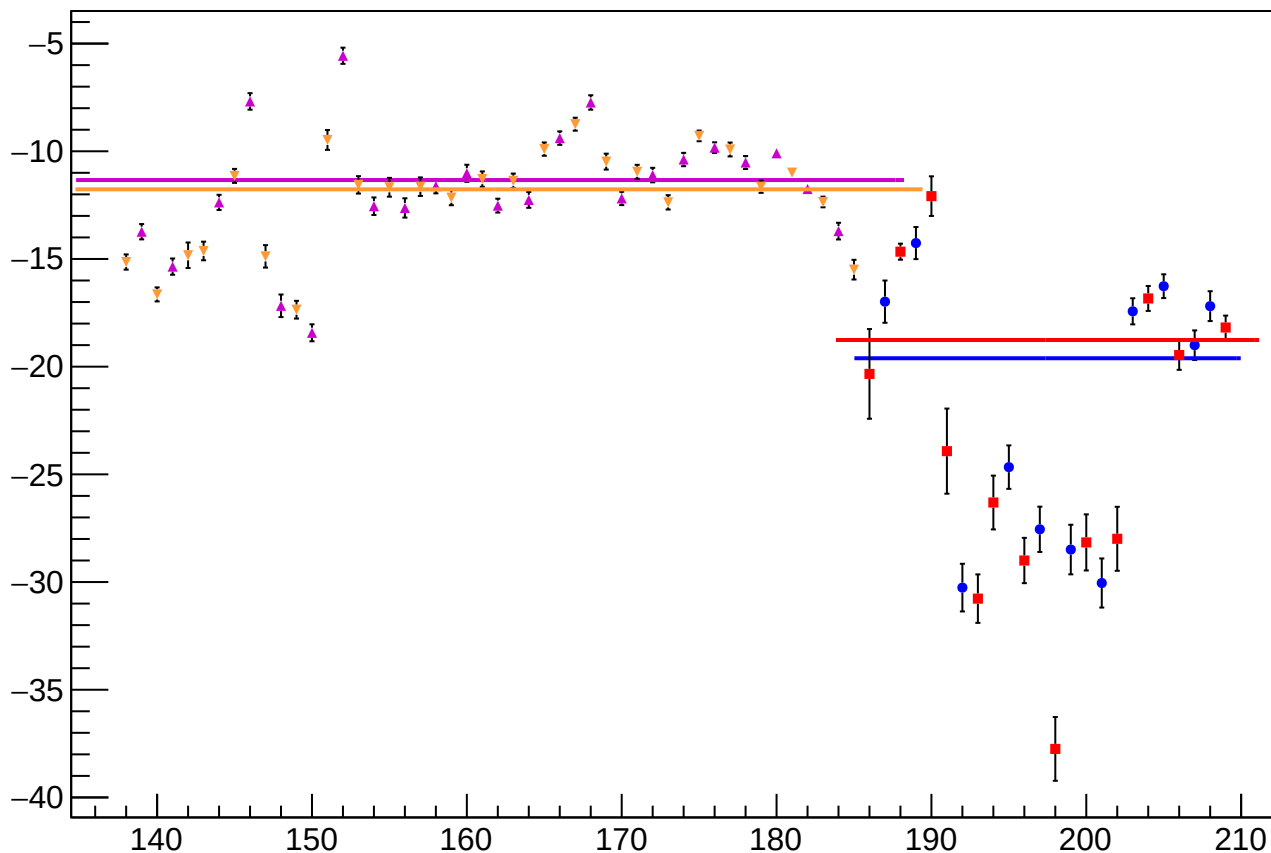
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.658 ± 0.020 $\chi^2/\text{NDF}: 759.5/27$
 Left Out: -0.497 ± 0.008 $\chi^2/\text{NDF}: 1449.3/24$
 Right Out: -0.695 ± 0.019 $\chi^2/\text{NDF}: 1121.6/31$
 Left In: -0.459 ± 0.008 $\chi^2/\text{NDF}: 1958.4/22$

Left: -0.478 ± 0.005 $\chi^2/\text{NDF}: 3419.9/47$
 Right: -0.677 ± 0.014 $\chi^2/\text{NDF}: 1883.1/59$
 In: -0.486 ± 0.007 $\chi^2/\text{NDF}: 2807.2/50$
 Out: -0.525 ± 0.007 $\chi^2/\text{NDF}: 2668.0/56$
 All: -0.506 ± 0.005 $\chi^2/\text{NDF}: 5490.4/107$

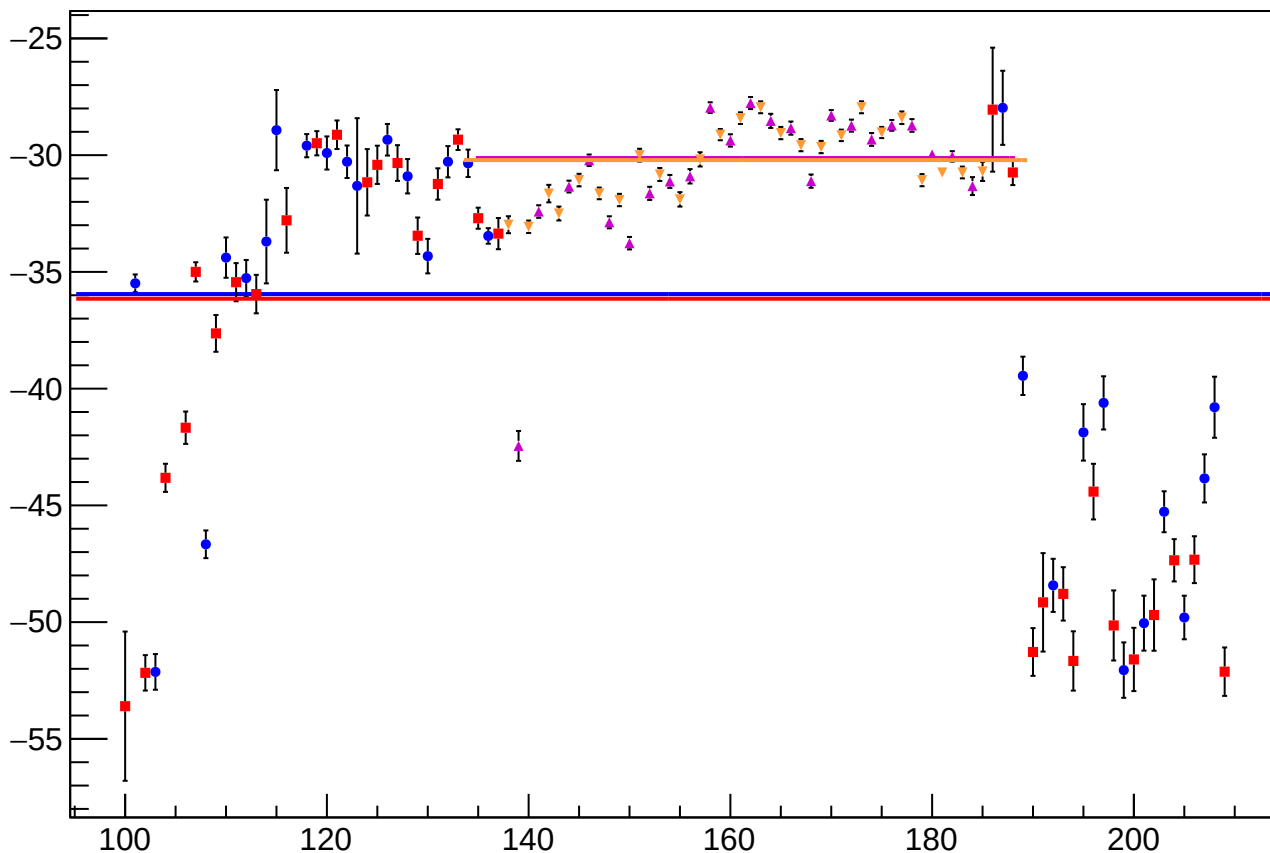
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.609 ± 0.241 χ^2/NDF : 439.4/10
 Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24
 Right Out: -18.762 ± 0.218 χ^2/NDF : 695.0/12
 Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47
 Right: -19.143 ± 0.161 χ^2/NDF : 1141.2/23
 In: -11.949 ± 0.065 χ^2/NDF : 2803.9/33
 Out: -12.366 ± 0.064 χ^2/NDF : 2659.4/37
 All: -12.163 ± 0.046 χ^2/NDF : 5484.2/71

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -35.950 ± 0.138 $\chi^2/\text{NDF}: 2407.1/27$

Left Out: -30.212 ± 0.054 $\chi^2/\text{NDF}: 734.0/24$

Right Out: -36.149 ± 0.135 $\chi^2/\text{NDF}: 3008.8/31$

Left In: -30.124 ± 0.056 $\chi^2/\text{NDF}: 1226.2/22$

Left: -30.169 ± 0.039 $\chi^2/\text{NDF}: 1961.5/47$

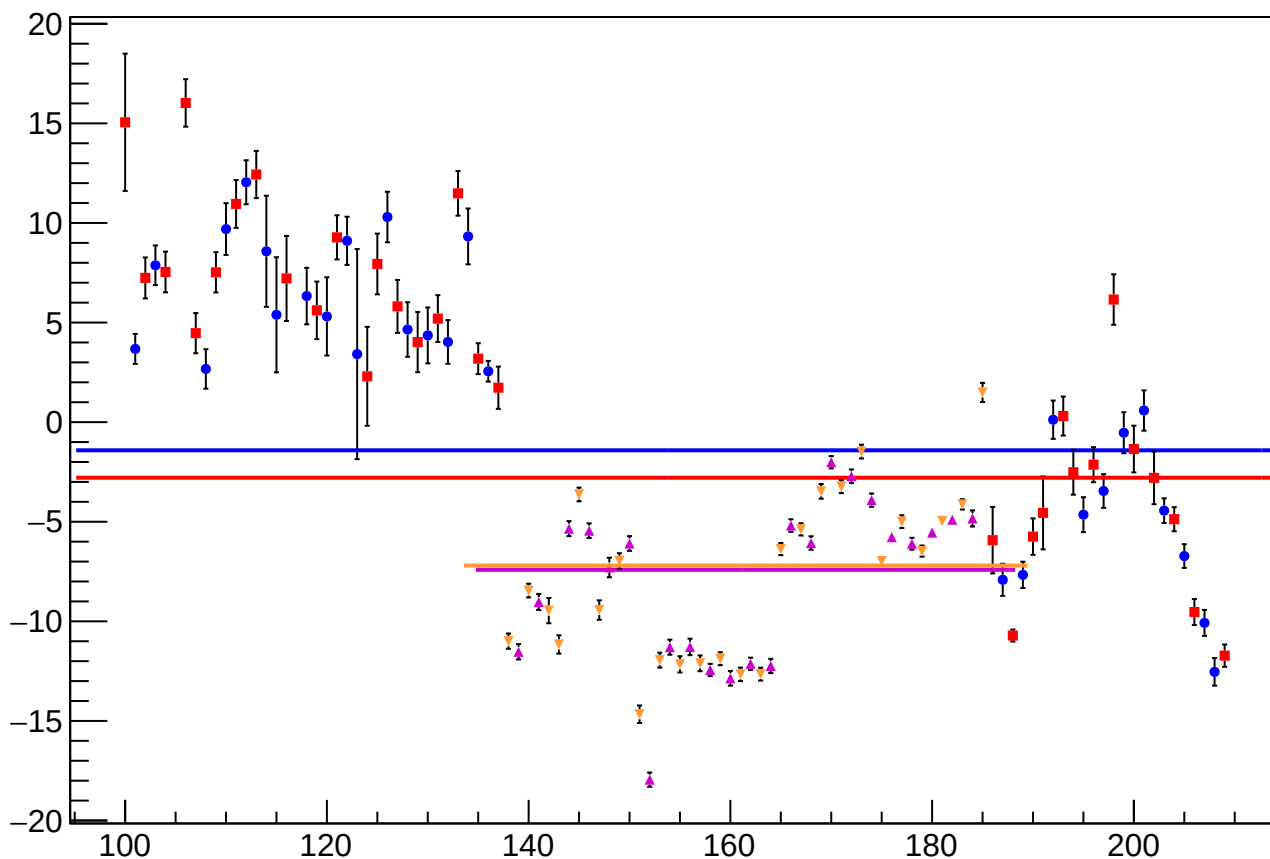
Right: -36.051 ± 0.096 $\chi^2/\text{NDF}: 5417.0/59$

In: -30.939 ± 0.051 $\chi^2/\text{NDF}: 5175.1/50$

Out: -31.032 ± 0.050 $\chi^2/\text{NDF}: 5420.9/56$

All: -30.987 ± 0.036 $\chi^2/\text{NDF}: 10597.7/107$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.414 ± 0.174 χ^2/NDF : 1489.8/27

Left Out: -7.199 ± 0.067 χ^2/NDF : 3037.3/24

Right Out: -2.790 ± 0.159 χ^2/NDF : 2647.6/31

Left In: -7.415 ± 0.068 χ^2/NDF : 3123.3/22

Left: -7.305 ± 0.048 χ^2/NDF : 6165.7/47

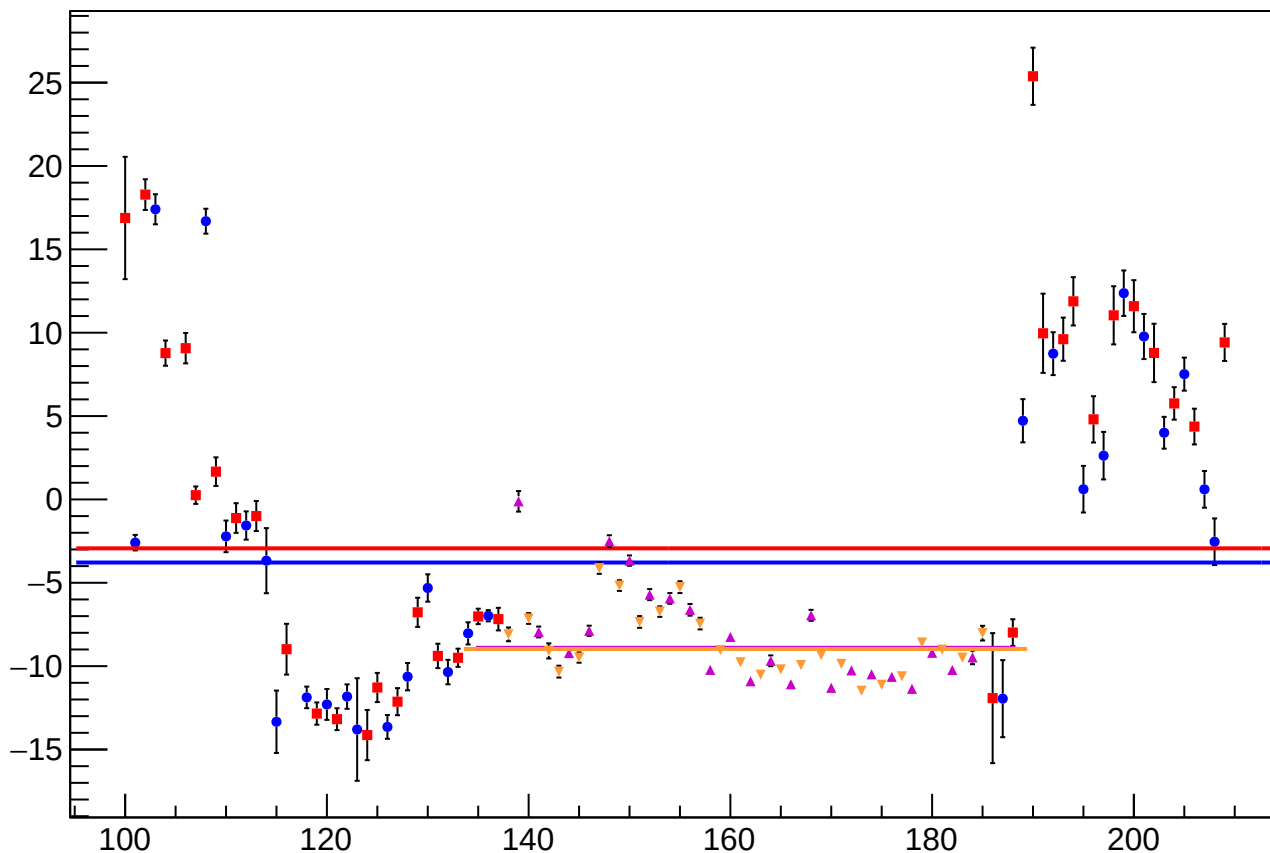
Right: -2.163 ± 0.117 χ^2/NDF : 4171.5/59

In: -6.622 ± 0.063 χ^2/NDF : 5645.7/50

Out: -6.537 ± 0.062 χ^2/NDF : 6337.7/56

All: -6.578 ± 0.044 χ^2/NDF : 11984.4/107

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.785 ± 0.156 χ^2/NDF : 2826.4/27

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -2.934 ± 0.156 χ^2/NDF : 3184.3/31

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

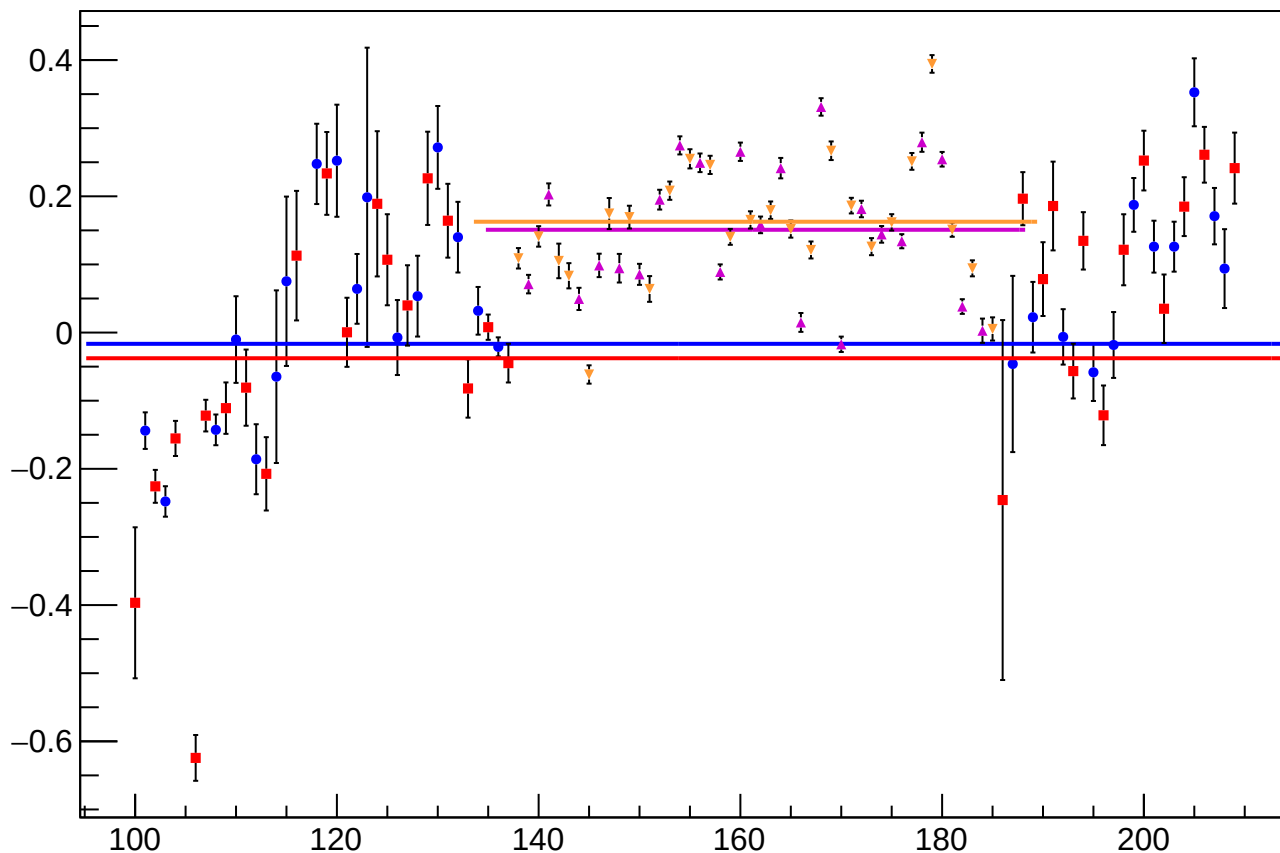
Right: -3.360 ± 0.110 χ^2/NDF : 6025.5/59

In: -8.209 ± 0.057 χ^2/NDF : 5290.7/50

Out: -8.192 ± 0.056 χ^2/NDF : 5360.6/56

All: -8.200 ± 0.040 χ^2/NDF : 10651.3/107

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.017 ± 0.007 χ^2/NDF : 378.2/27

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.038 ± 0.007 χ^2/NDF : 731.4/31

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

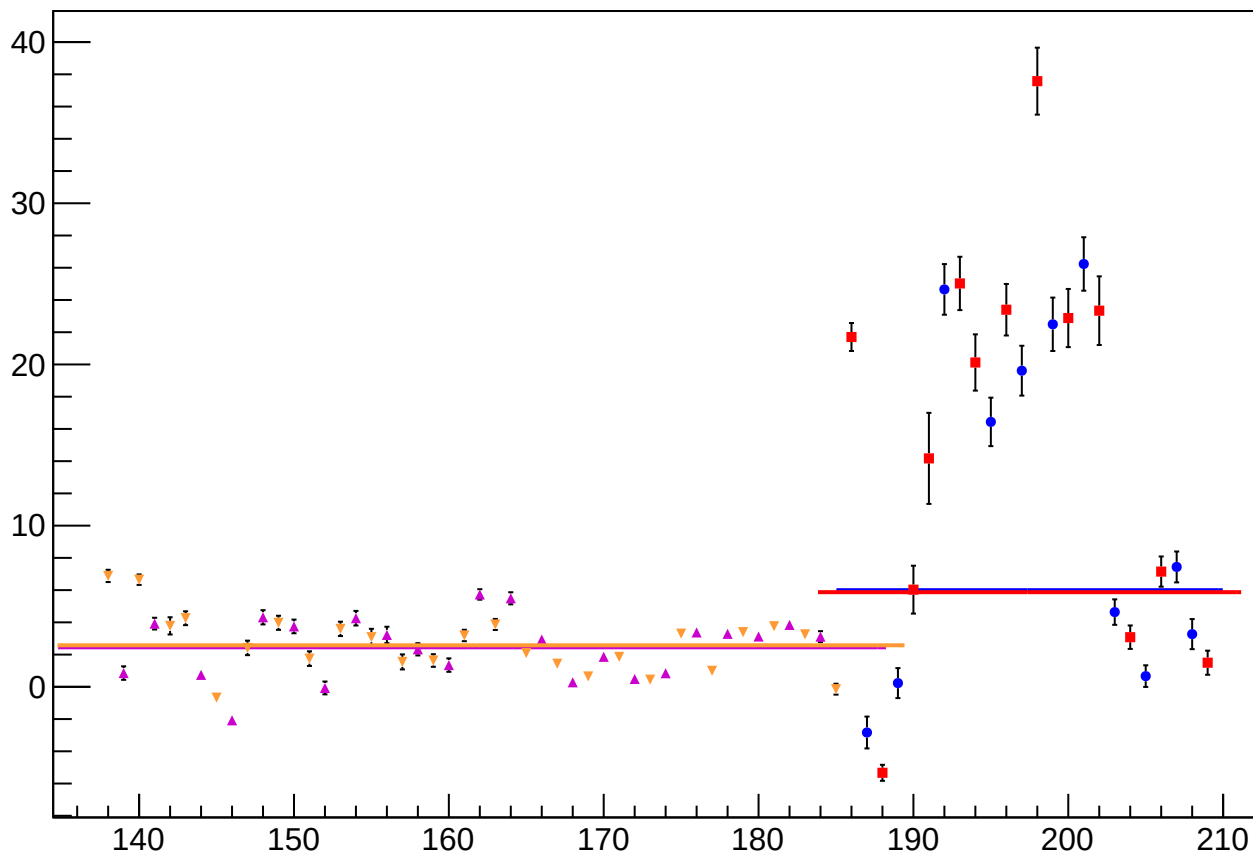
Right: -0.027 ± 0.005 χ^2/NDF : 1114.0/59

In: 0.129 ± 0.003 χ^2/NDF : 2141.1/50

Out: 0.137 ± 0.003 χ^2/NDF : 2441.5/56

All: 0.133 ± 0.002 χ^2/NDF : 4587.3/107

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.996 ± 0.313 $\chi^2/\text{NDF}: 710.0/10$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 5.872 ± 0.281 $\chi^2/\text{NDF}: 1612.8/12$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

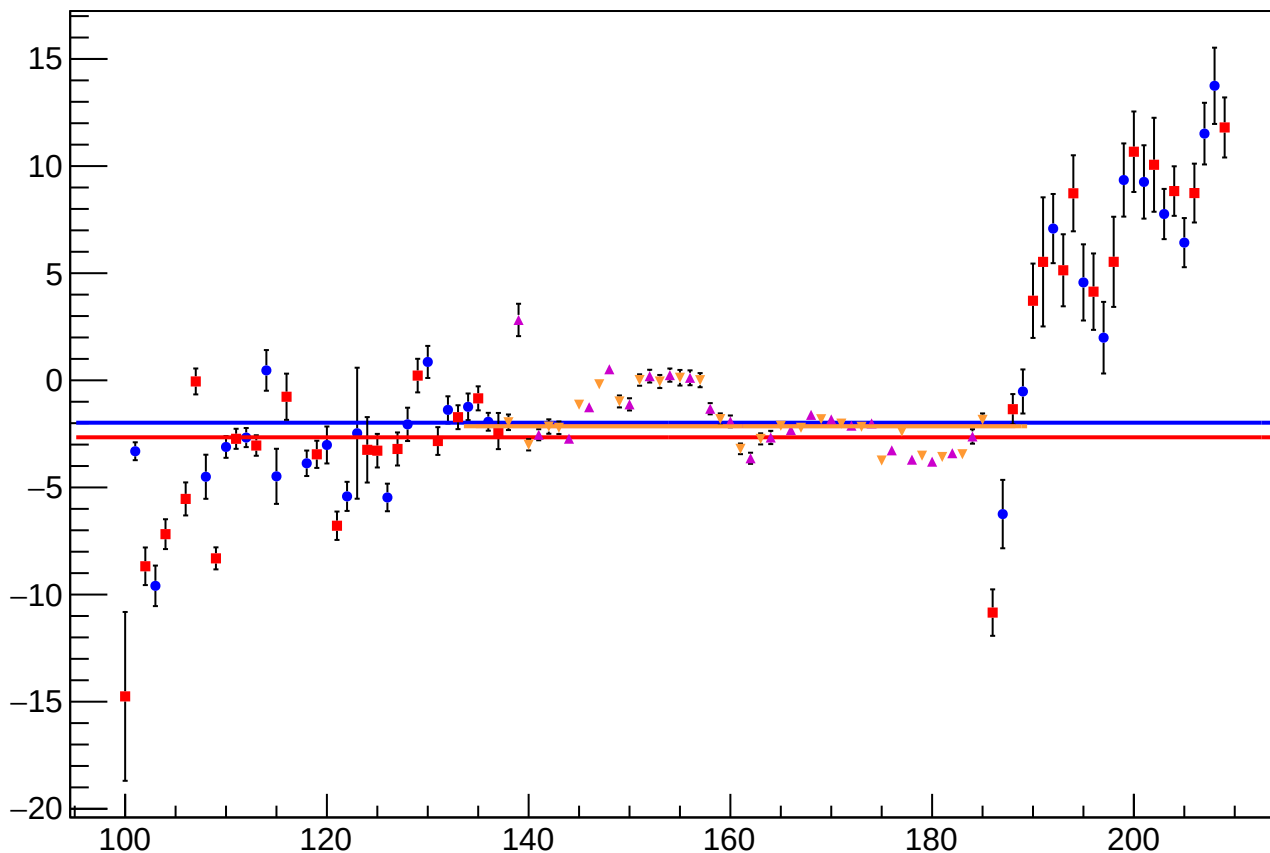
Right: 5.928 ± 0.209 $\chi^2/\text{NDF}: 2322.9/23$

In: 2.575 ± 0.058 $\chi^2/\text{NDF}: 1705.3/33$

Out: 2.712 ± 0.057 $\chi^2/\text{NDF}: 2611.8/37$

All: 2.645 ± 0.041 $\chi^2/\text{NDF}: 4319.8/71$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.978 ± 0.146 $\chi^2/\text{NDF}: 617.7/27$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -2.660 ± 0.144 $\chi^2/\text{NDF}: 856.2/31$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

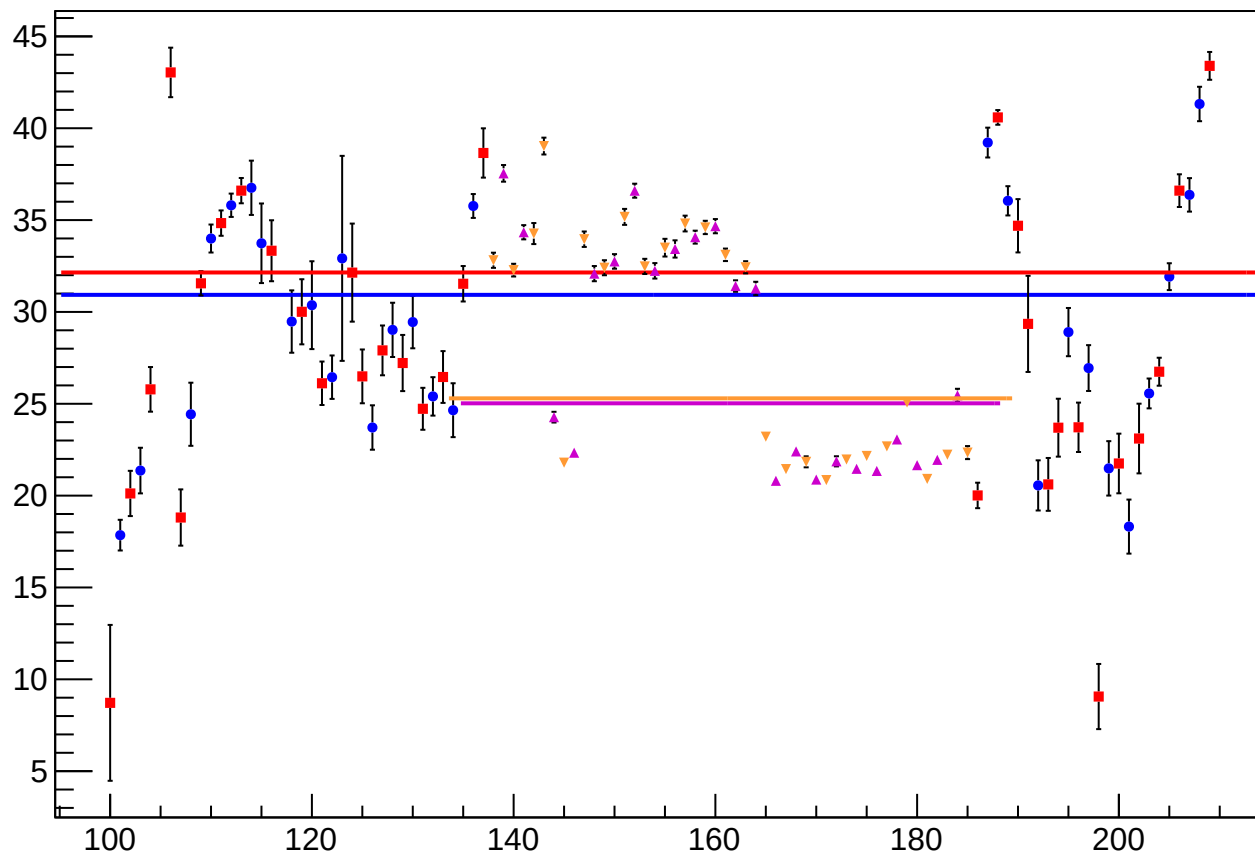
Right: -2.325 ± 0.102 $\chi^2/\text{NDF}: 1485.0/59$

In: -2.121 ± 0.046 $\chi^2/\text{NDF}: 1310.0/50$

Out: -2.197 ± 0.045 $\chi^2/\text{NDF}: 1441.1/56$

All: -2.159 ± 0.032 $\chi^2/\text{NDF}: 2752.5/107$

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.930 $\pm$ 0.198 χ^2 /NDF: 1100.8/27

Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF:8272.3/24

Right Out: 32.148 $\pm$ 0.180 χ^2 /NDF: 1914.8/31

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

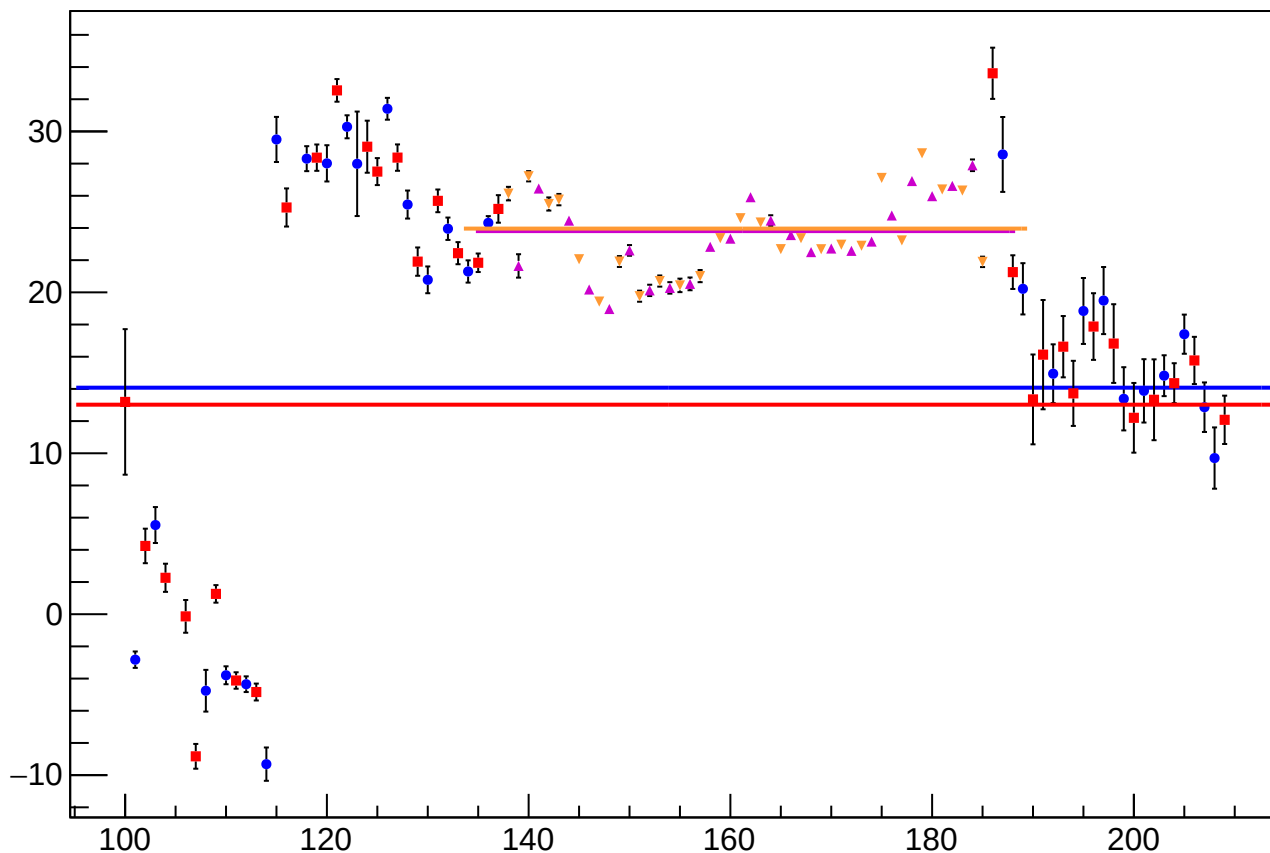
Right: 31.597 $\pm$ 0.133 χ^2 /NDF: 3036.3/59

In: 25.515 $\pm$ 0.057 χ^2 /NDF:9524.8/50

Out: 25.957 $\pm$ 0.056 χ^2 /NDF:11495.2/56

All: 25.740 $\pm$ 0.040 χ^2 /NDF: 21050.6/107

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.076 $\pm$ 0.164 χ^2 /NDF: 7356.7/27

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.020 $\pm$ 0.164 χ^2 /NDF: 7212.6/31

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

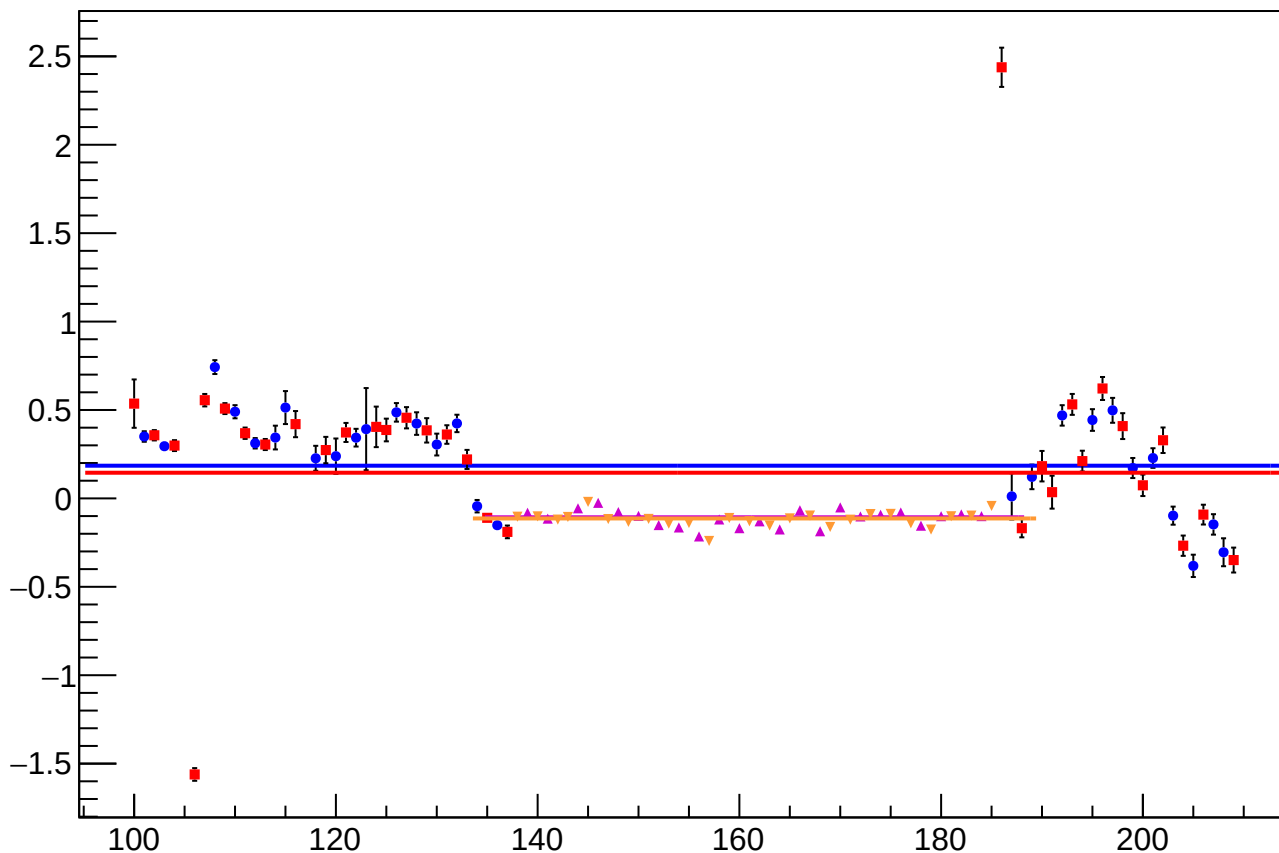
Right: 13.547 $\pm$ 0.116 χ^2 /NDF: 14590.2/59

In: 22.850 $\pm$ 0.051 χ^2 /NDF:12299.0/50

Out: 22.916 $\pm$ 0.051 χ^2 /NDF:13185.4/56

All: 22.884 $\pm$ 0.036 χ^2 /NDF: 25485.3/107

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.185 ± 0.008 $\chi^2/\text{NDF}: 1098.2/27$

Left Out: -0.113 ± 0.002 $\chi^2/\text{NDF}: 291.0/24$

Right Out: 0.145 ± 0.008 $\chi^2/\text{NDF}: 3717.0/31$

Left In: -0.107 ± 0.002 $\chi^2/\text{NDF}: 321.8/22$

Left: -0.110 ± 0.002 $\chi^2/\text{NDF}: 616.6/47$

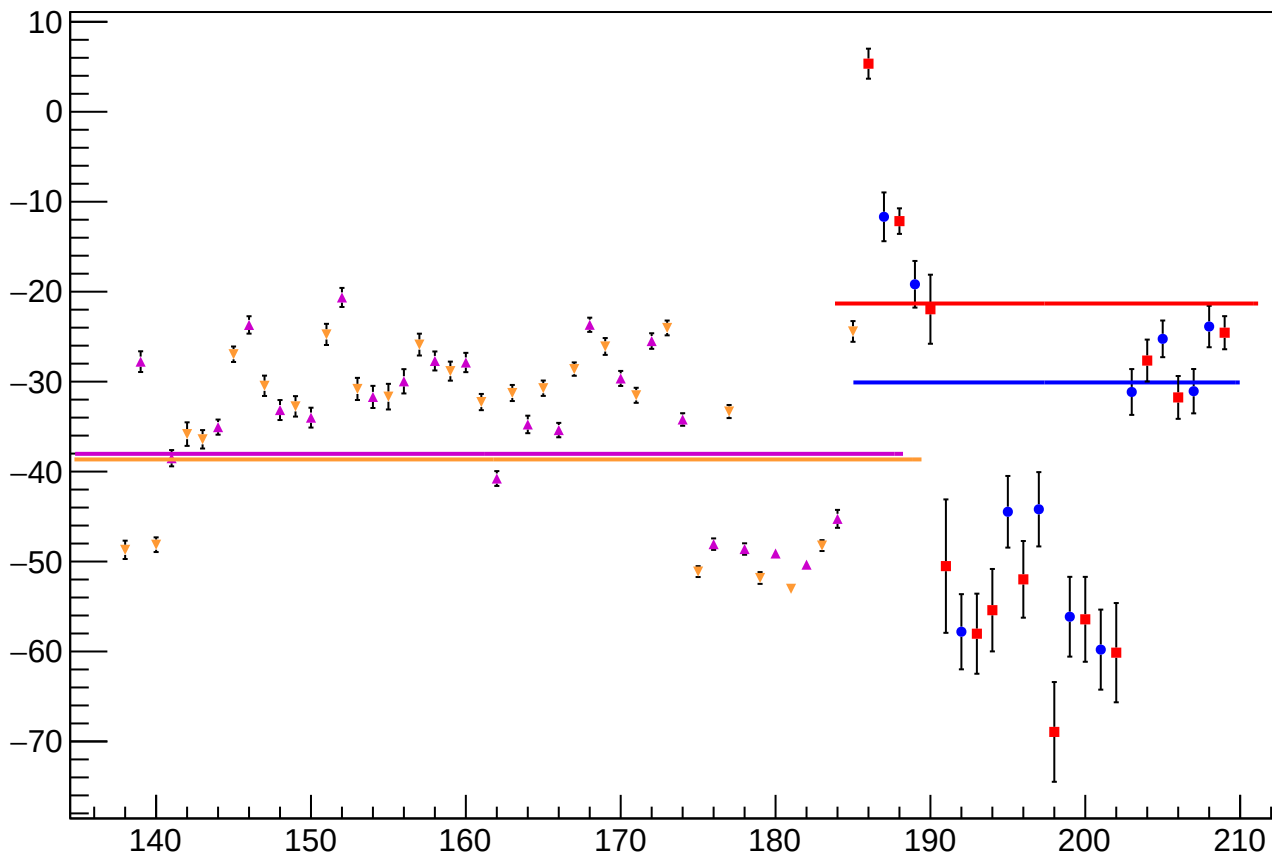
Right: 0.165 ± 0.006 $\chi^2/\text{NDF}: 4826.6/59$

In: -0.084 ± 0.002 $\chi^2/\text{NDF}: 2525.5/50$

Out: -0.093 ± 0.002 $\chi^2/\text{NDF}: 4916.5/56$

All: -0.088 ± 0.002 $\chi^2/\text{NDF}: 7449.6/107$

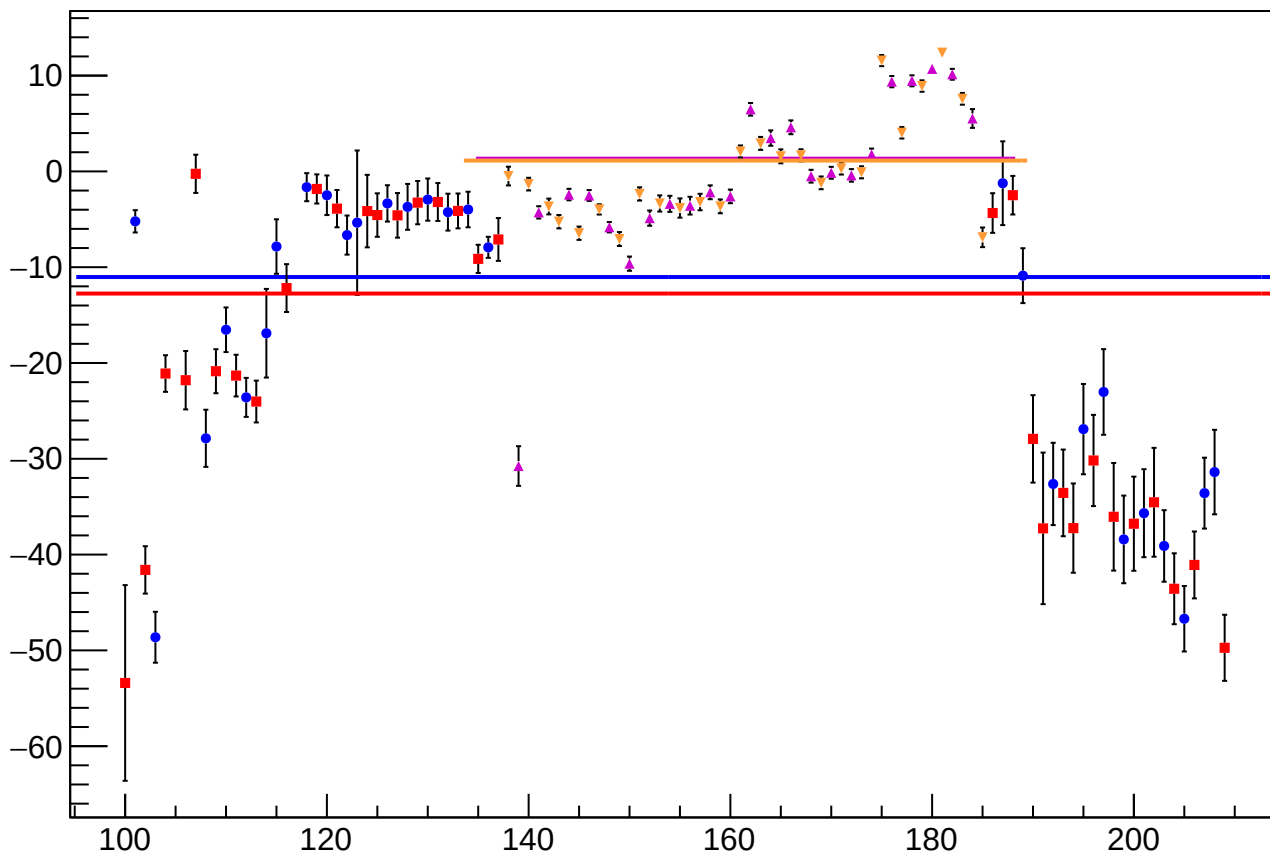
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.091 ± 0.873 $\chi^2/\text{NDF}: 224.8/10$
 Left Out: -38.650 ± 0.169 $\chi^2/\text{NDF}: 4077.2/24$
 Right Out: -21.317 ± 0.733 $\chi^2/\text{NDF}: 695.7/12$
 Left In: -38.027 ± 0.173 $\chi^2/\text{NDF}: 3091.9/22$

Left: -38.346 ± 0.121 $\chi^2/\text{NDF}: 7175.7/47$
 Right: -24.948 ± 0.561 $\chi^2/\text{NDF}: 979.8/23$
 In: -37.726 ± 0.170 $\chi^2/\text{NDF}: 3396.3/33$
 Out: -37.775 ± 0.165 $\chi^2/\text{NDF}: 5303.4/37$
 All: -37.751 ± 0.118 $\chi^2/\text{NDF}: 8699.8/71$

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.028 ± 0.435 χ^2/NDF : 778.3/27

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -12.751 ± 0.440 χ^2/NDF : 883.5/31

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

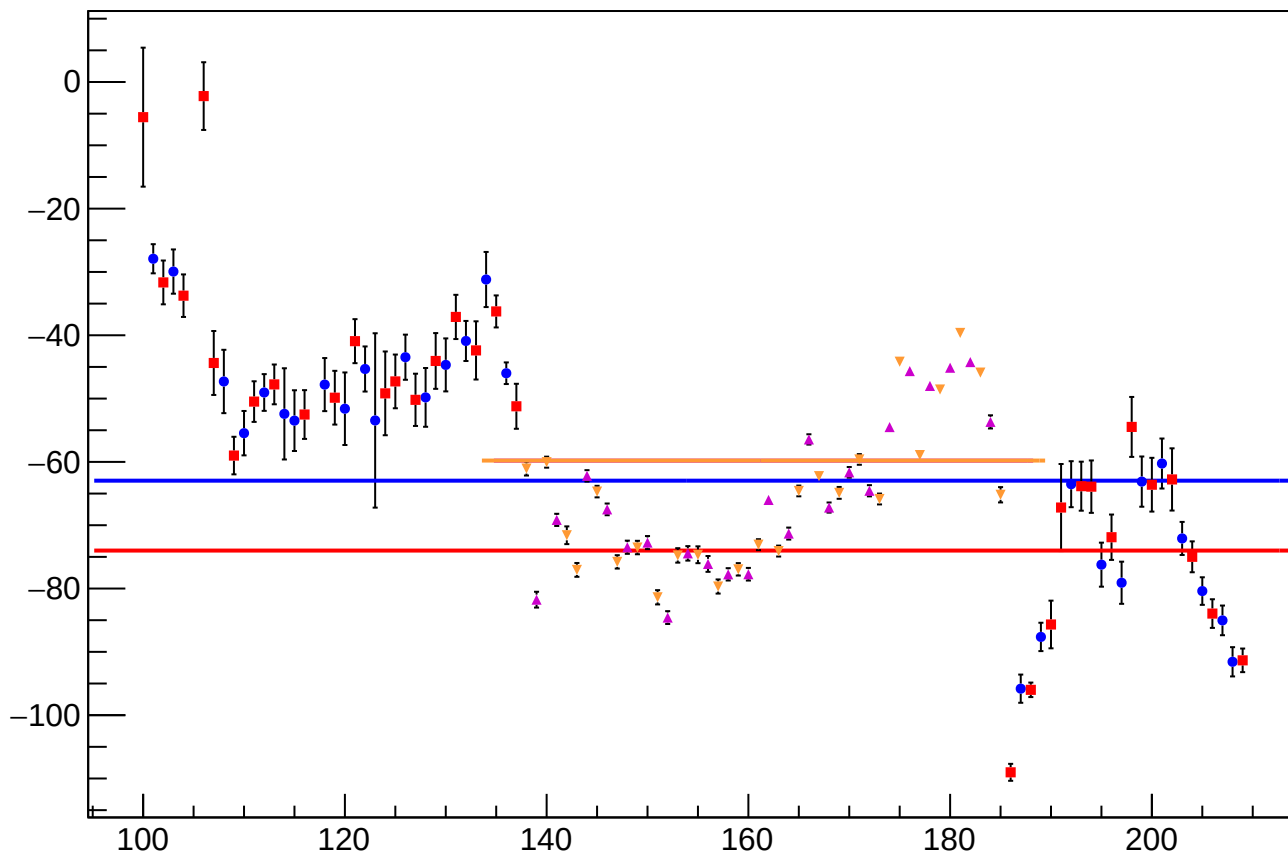
Right: -11.879 ± 0.309 χ^2/NDF : 1669.5/59

In: 0.170 ± 0.133 χ^2/NDF : 3558.8/50

Out: -0.080 ± 0.130 χ^2/NDF : 3591.0/56

All: 0.042 ± 0.093 χ^2/NDF : 7151.6/107

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.964 ± 0.585 $\chi^2/\text{NDF}: 1360.0/27$

Left Out: -59.789 ± 0.170 $\chi^2/\text{NDF}: 5837.7/24$

Right Out: -74.003 ± 0.517 $\chi^2/\text{NDF}: 2618.0/31$

Left In: -59.802 ± 0.173 $\chi^2/\text{NDF}: 5217.5/22$

Left: -59.795 ± 0.121 $\chi^2/\text{NDF}: 11055.3/47$

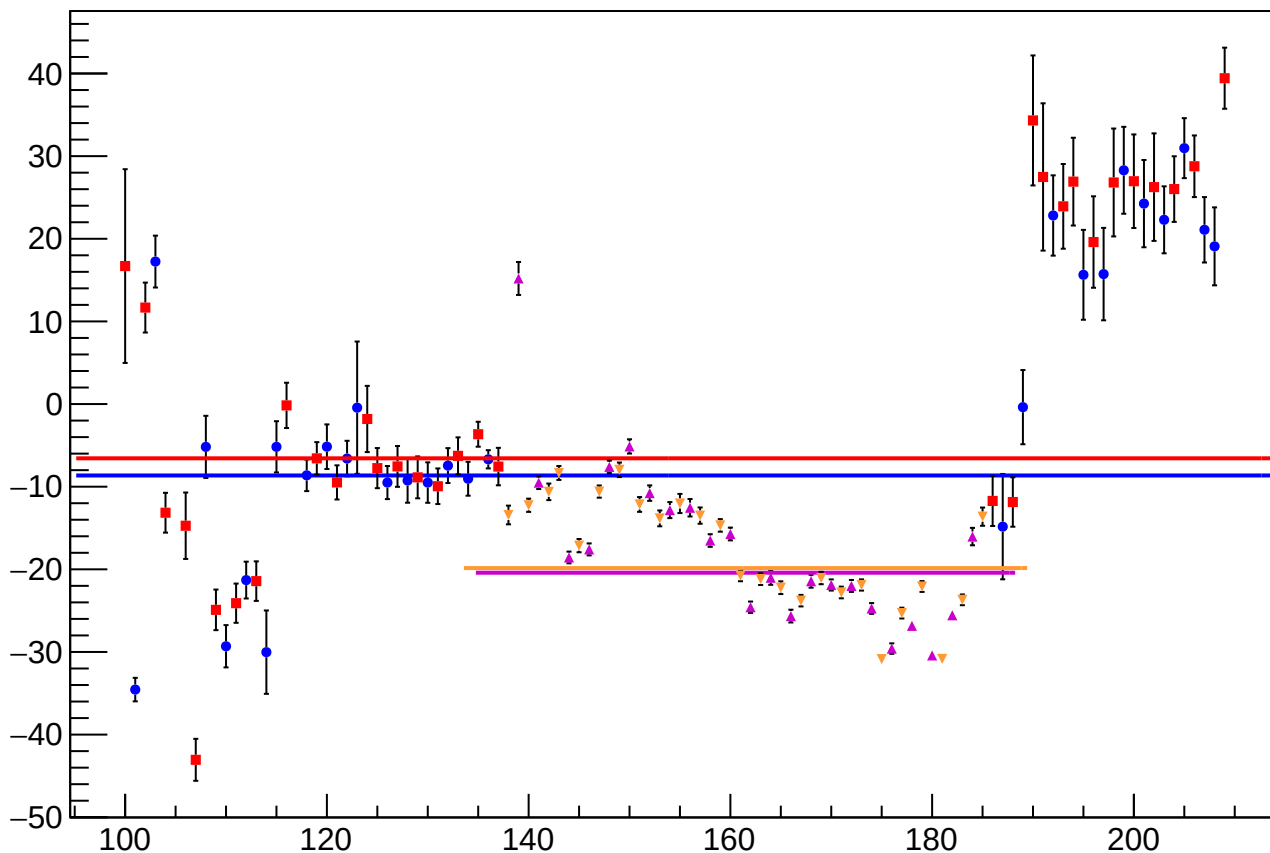
Right: -69.152 ± 0.387 $\chi^2/\text{NDF}: 4177.9/59$

In: -60.058 ± 0.166 $\chi^2/\text{NDF}: 6604.4/50$

Out: -61.175 ± 0.162 $\chi^2/\text{NDF}: 9136.6/56$

All: -60.632 ± 0.116 $\chi^2/\text{NDF}: 15764.2/107$

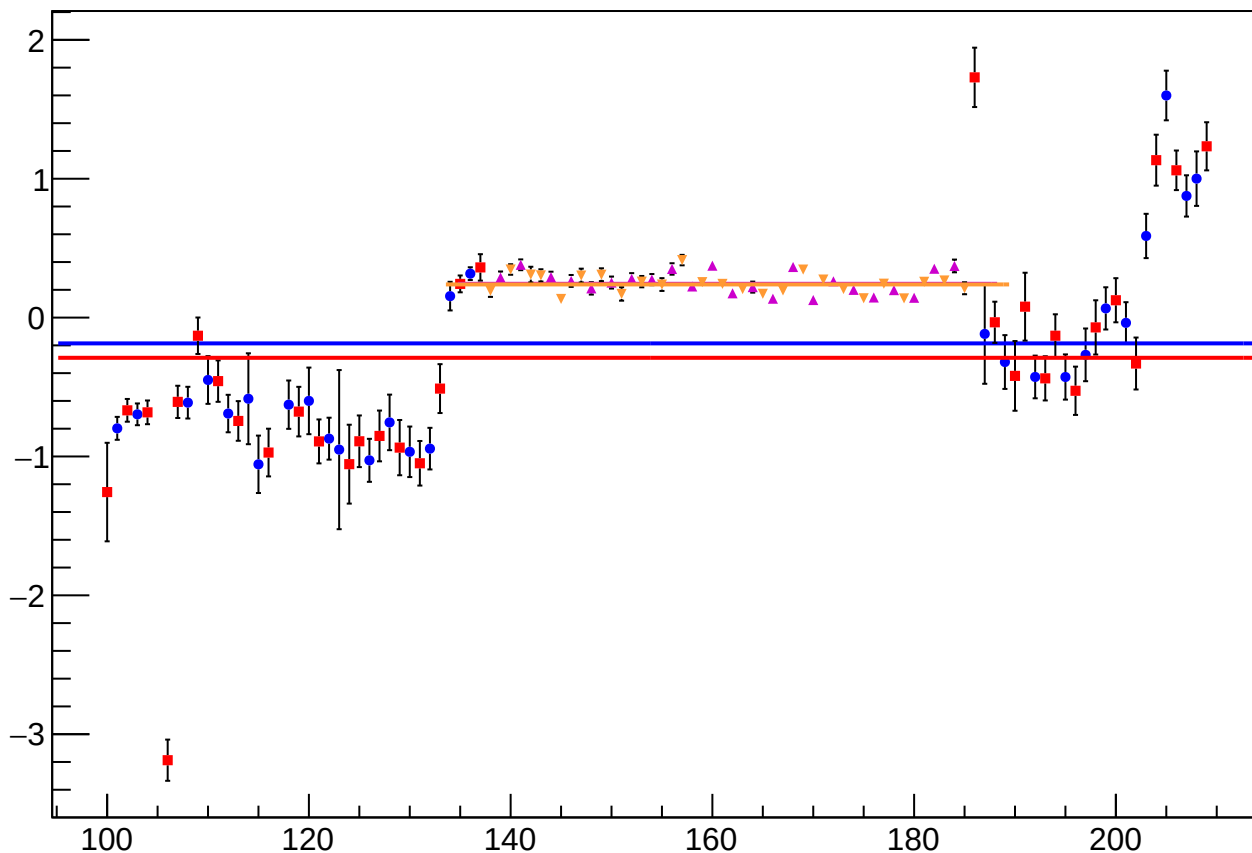
reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -8.643 ± 0.491 $\chi^2/\text{NDF}: 967.0/27$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -6.567 ± 0.507 $\chi^2/\text{NDF}: 967.5/31$
 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: -7.637 ± 0.353 $\chi^2/\text{NDF}: 1943.2/59$
 In: -19.324 ± 0.149 $\chi^2/\text{NDF}: 3789.9/50$
 Out: -18.741 ± 0.146 $\chi^2/\text{NDF}: 3528.4/56$
 All: -19.027 ± 0.104 $\chi^2/\text{NDF}: 7326.0/107$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.186 ± 0.024 χ^2/NDF : 610.6/27

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.289 ± 0.025 χ^2/NDF : 1006.3/31

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

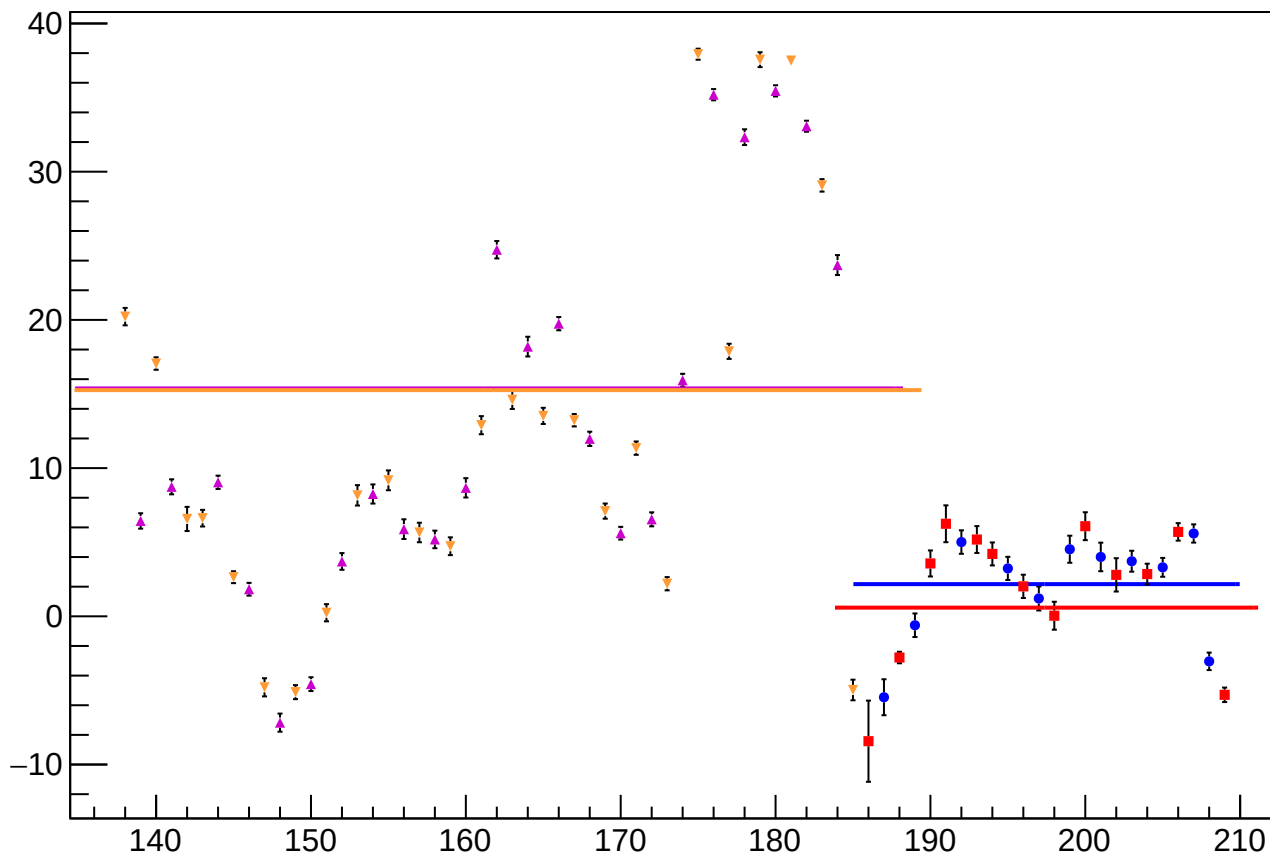
Right: -0.237 ± 0.017 χ^2/NDF : 1625.8/59

In: 0.209 ± 0.007 χ^2/NDF : 1034.4/50

Out: 0.199 ± 0.007 χ^2/NDF : 1523.3/56

All: 0.204 ± 0.005 χ^2/NDF : 2558.7/107

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.172 ± 0.228 χ^2/NDF : 194.7/10

Left Out: 15.263 ± 0.100 χ^2/NDF : 19175.2/24

Right Out: 0.586 ± 0.199 χ^2/NDF : 437.2/12

Left In: 15.377 ± 0.103 χ^2/NDF : 16268.9/22

Left: 15.318 ± 0.072 χ^2/NDF : 35444.7/47

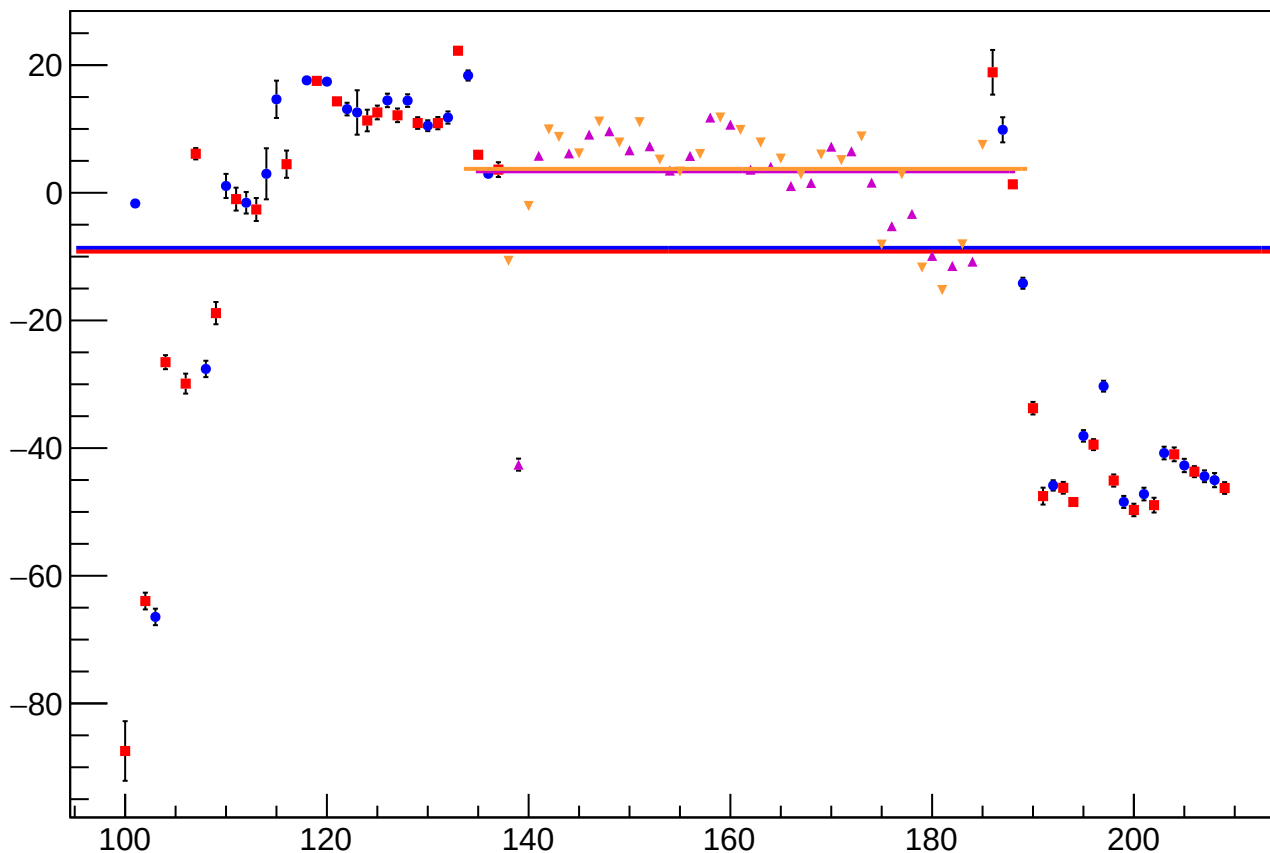
Right: 1.272 ± 0.150 χ^2/NDF : 659.5/23

In: 13.144 ± 0.094 χ^2/NDF : 19256.3/33

Out: 12.273 ± 0.090 χ^2/NDF : 23956.9/37

All: 12.690 ± 0.065 χ^2/NDF : 43258.3/71

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.630 ± 0.175 χ^2/NDF : 22814.7/27

Left Out: 3.746 ± 0.079 χ^2/NDF : 9247.4/24

Right Out: -9.215 ± 0.164 χ^2/NDF : 29194.3/31

Left In: 3.365 ± 0.081 χ^2/NDF : 8527.0/22

Left: 3.561 ± 0.057 χ^2/NDF : 17785.7/47

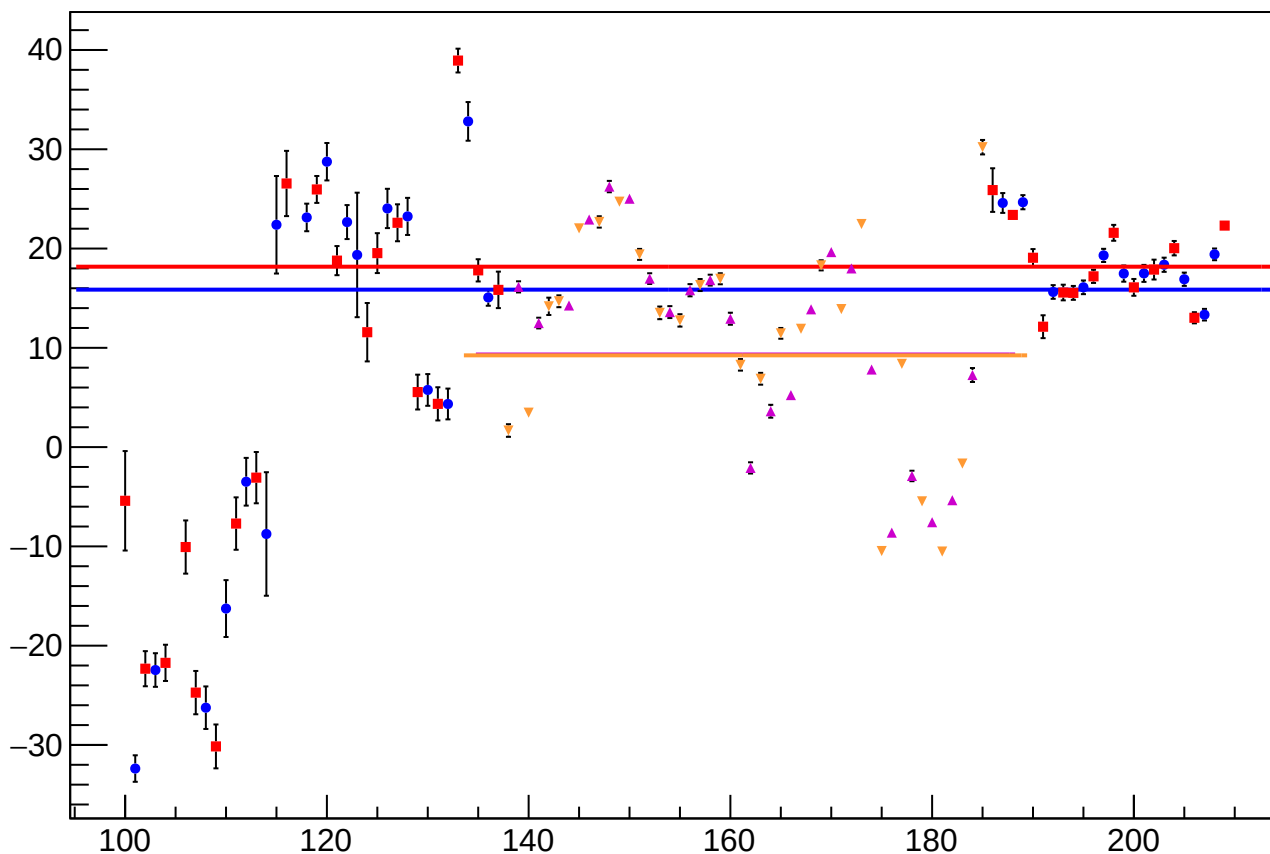
Right: -8.941 ± 0.120 χ^2/NDF : 52015.0/59

In: 1.235 ± 0.074 χ^2/NDF : 35213.8/50

Out: 1.322 ± 0.071 χ^2/NDF : 43507.1/56

All: 1.280 ± 0.051 χ^2/NDF : 78721.6/107

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.860 $\pm$ 0.189 χ^2 /NDF: 3040.2/27

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 18.172 $\pm$ 0.164 χ^2 /NDF: 3163.1/31

Left In: 9.328 $\pm$ 0.103 χ^2 /NDF:11968.5/22

Left: 9.284 $\pm$ 0.072 χ^2 /NDF: 25602.0/47

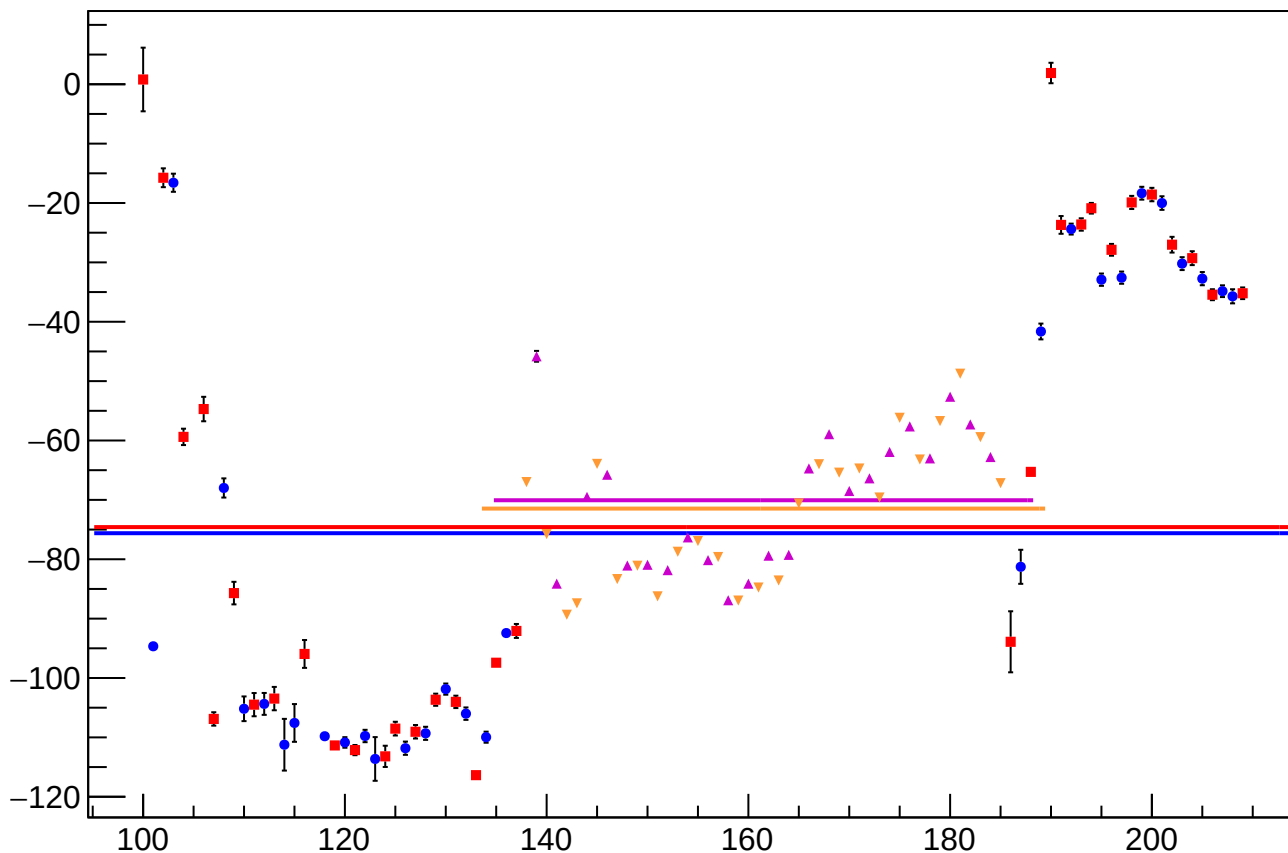
Right: 17.178 $\pm$ 0.124 χ^2 /NDF: 6288.6/59

In: 10.814 $\pm$ 0.090 χ^2 /NDF:15931.3/50

Out: 11.689 $\pm$ 0.086 χ^2 /NDF:18942.2/56

All: 11.272 $\pm$ 0.062 χ^2 /NDF: 34922.8/107

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -75.613 ± 0.202 χ^2/NDF : 32666.0/27

Left Out: -71.465 ± 0.089 χ^2/NDF : 16409.7/24

Right Out: -74.584 ± 0.192 χ^2/NDF : 41369.6/31

Left In: -70.061 ± 0.092 χ^2/NDF : 13058.5/22

Left: -70.782 ± 0.064 χ^2/NDF : 29588.5/47

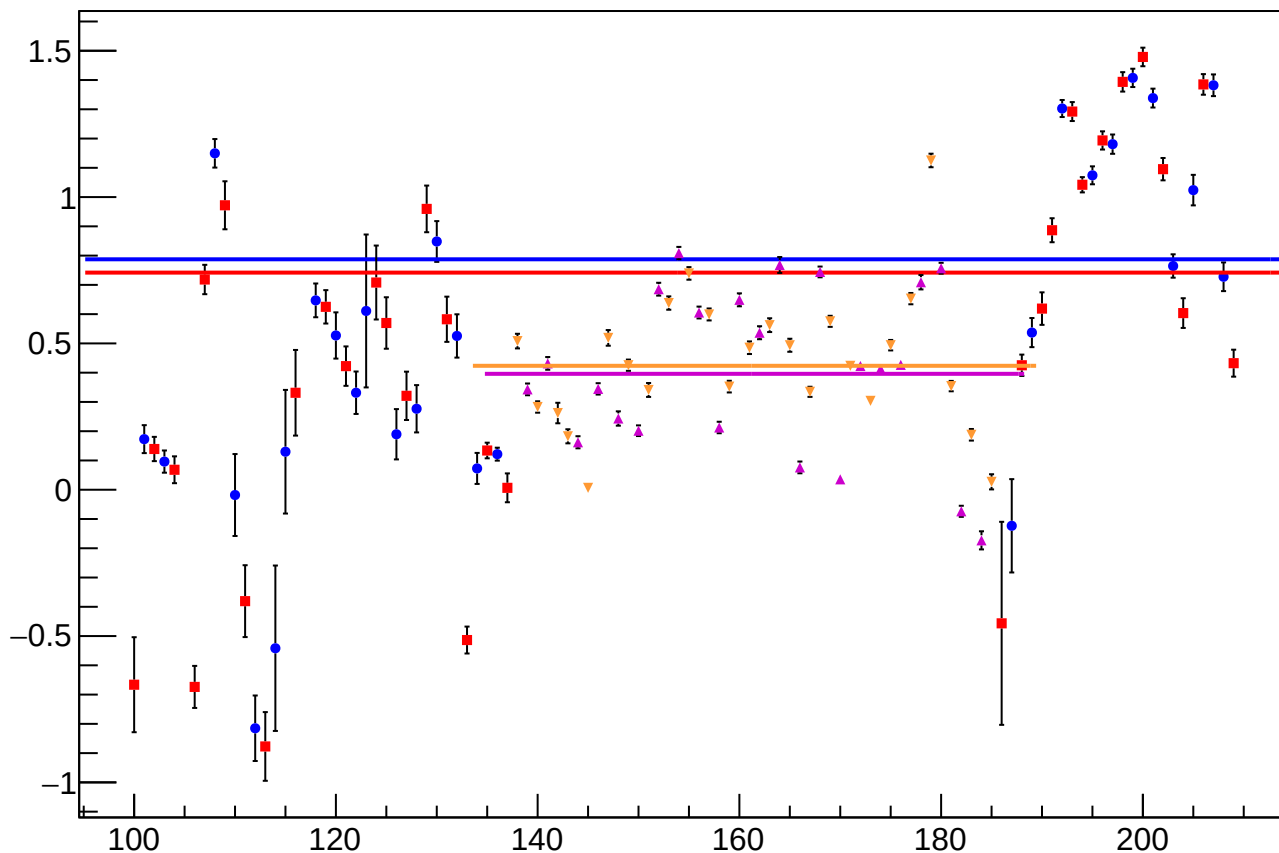
Right: -75.075 ± 0.139 χ^2/NDF : 74049.1/59

In: -71.014 ± 0.083 χ^2/NDF : 46353.2/50

Out: -72.018 ± 0.081 χ^2/NDF : 57995.4/56

All: -71.531 ± 0.058 χ^2/NDF : 104423.1/107

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.787 ± 0.009 χ^2/NDF : 3635.5/27

Left Out: 0.424 ± 0.004 χ^2/NDF : 2885.0/24

Right Out: 0.742 ± 0.008 χ^2/NDF : 4867.5/31

Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47

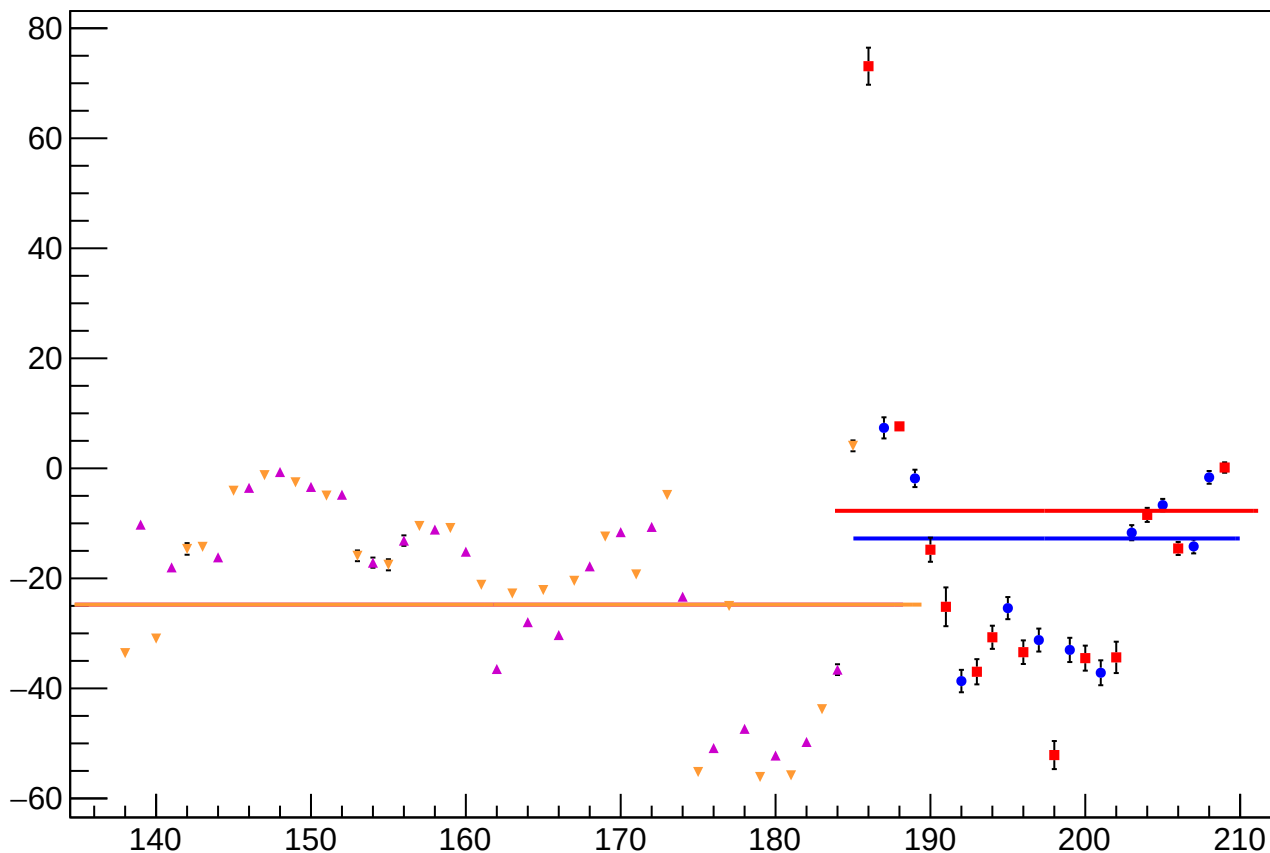
Right: 0.763 ± 0.006 χ^2/NDF : 8517.5/59

In: 0.469 ± 0.004 χ^2/NDF : 9331.1/50

Out: 0.487 ± 0.004 χ^2/NDF : 8960.1/56

All: 0.478 ± 0.003 χ^2/NDF : 18303.1/107

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.747 ± 0.473 $\chi^2/\text{NDF}: 760.5/10$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -7.721 ± 0.427 $\chi^2/\text{NDF}: 2035.1/12$
 Left In: -24.775 ± 0.143 $\chi^2/\text{NDF}: 14807.4/22$

Left: -24.772 ± 0.100 $\chi^2/\text{NDF}: 33126.2/47$

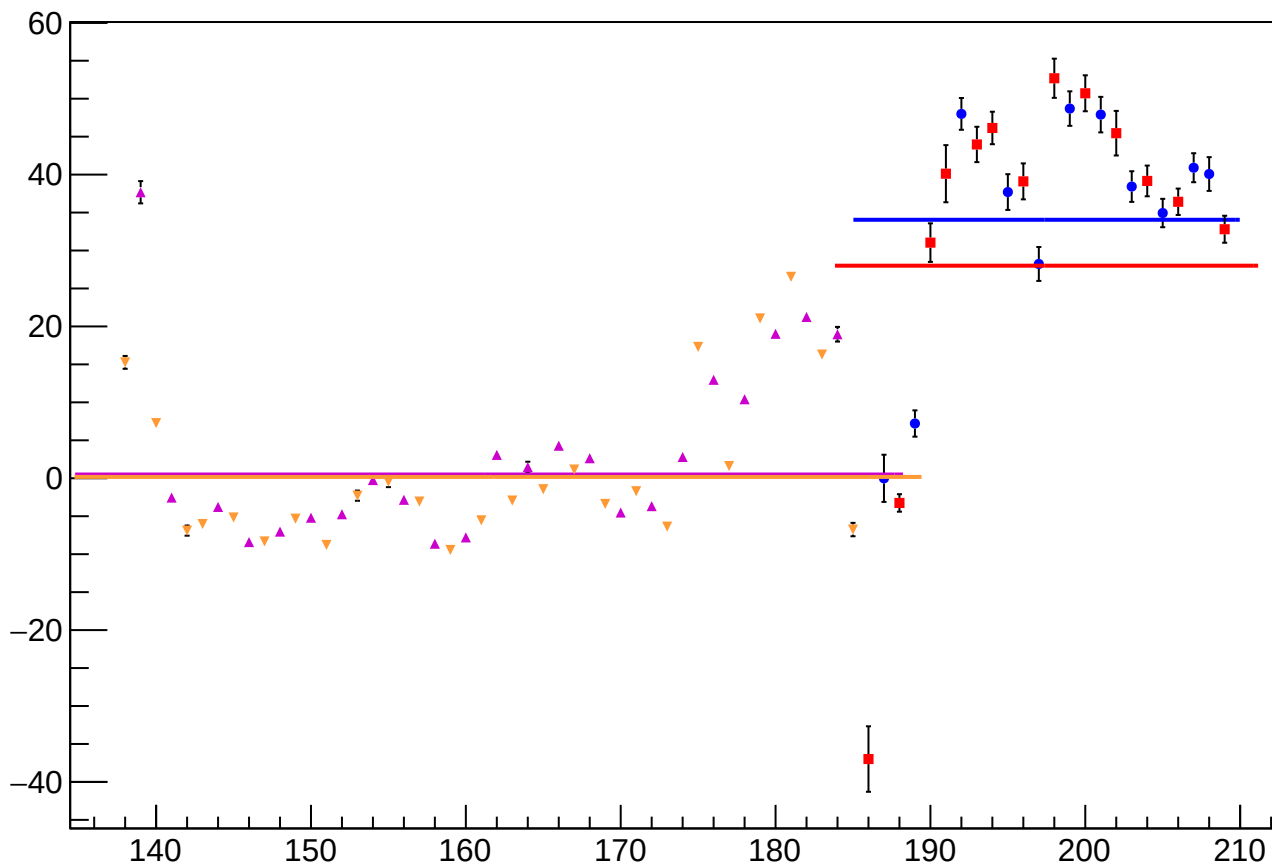
Right: -9.979 ± 0.317 $\chi^2/\text{NDF}: 2857.7/23$

In: -23.771 ± 0.137 $\chi^2/\text{NDF}: 16160.3/33$

Out: -23.129 ± 0.133 $\chi^2/\text{NDF}: 21792.7/37$

All: -23.440 ± 0.095 $\chi^2/\text{NDF}: 37964.4/71$

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 34.050 ± 0.641 χ^2/NDF : 515.3/10

Left Out: 0.177 ± 0.109 χ^2/NDF : 8295.6/24

Right Out: 28.002 ± 0.582 χ^2/NDF : 1394.8/12

Left In: 0.493 ± 0.112 χ^2/NDF : 6555.4/22

Left: 0.330 ± 0.078 χ^2/NDF : 14855.0/47

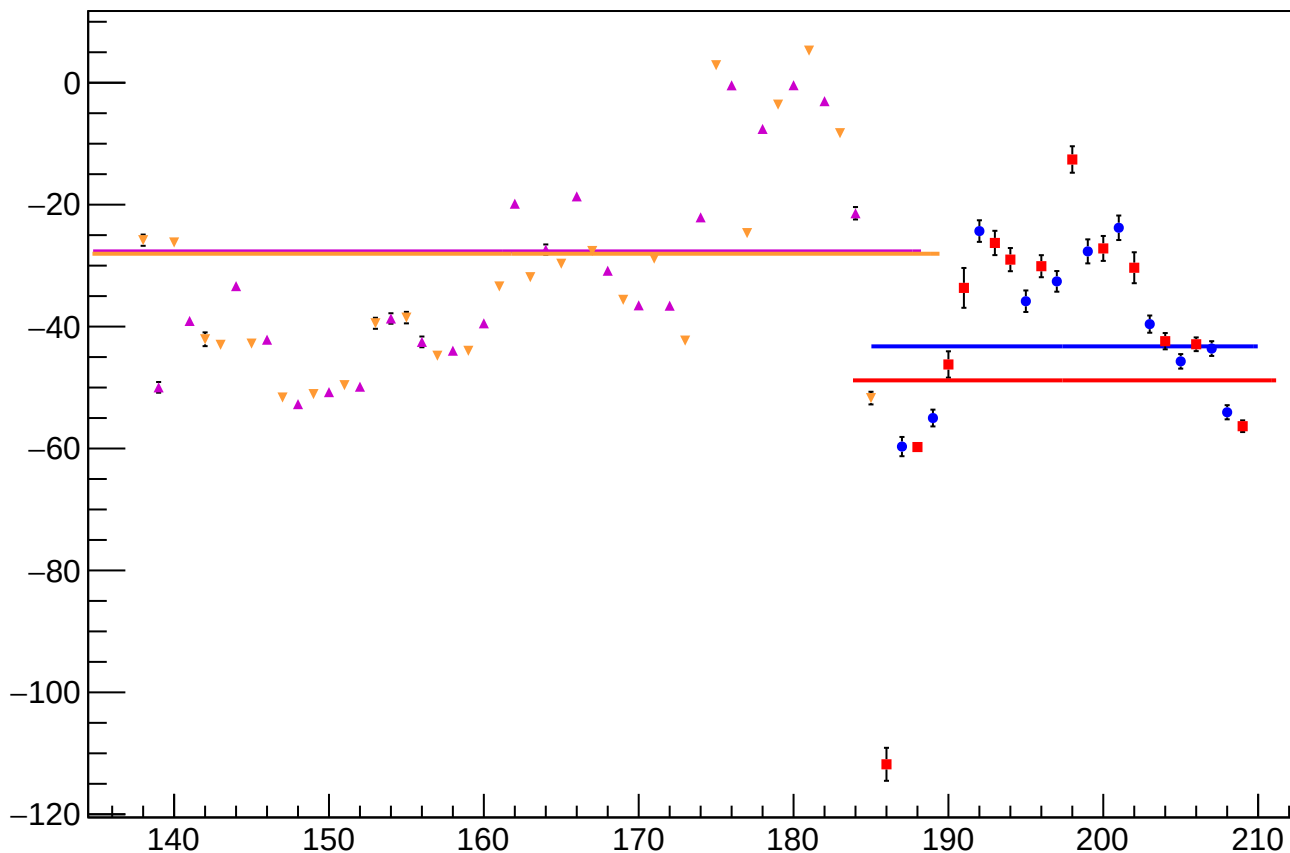
Right: 30.735 ± 0.431 χ^2/NDF : 1958.8/23

In: 1.488 ± 0.110 χ^2/NDF : 9725.9/33

Out: 1.111 ± 0.107 χ^2/NDF : 11896.8/37

All: 1.293 ± 0.077 χ^2/NDF : 21628.7/71

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.245 ± 0.445 χ^2/NDF : 606.1/10

Left Out: -28.050 ± 0.140 χ^2/NDF : 17144.5/24

Right Out: -48.823 ± 0.386 χ^2/NDF : 1748.9/12

Left In: -27.666 ± 0.142 χ^2/NDF : 15003.2/22

Left: -27.862 ± 0.100 χ^2/NDF : 32151.3/47

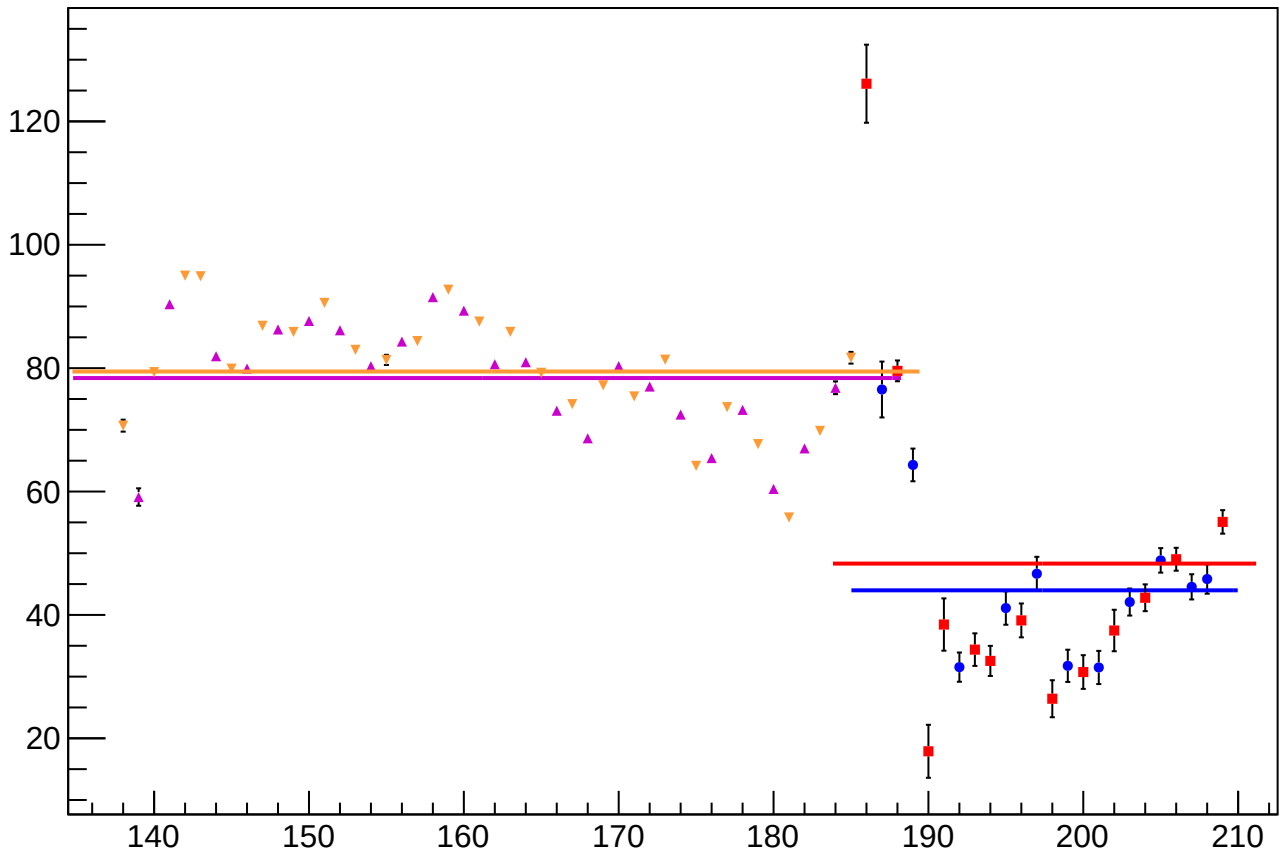
Right: -46.426 ± 0.292 χ^2/NDF : 2444.6/23

In: -29.114 ± 0.136 χ^2/NDF : 16720.7/33

Out: -30.458 ± 0.132 χ^2/NDF : 21450.4/37

All: -29.807 ± 0.094 χ^2/NDF : 38221.7/71

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.987 ± 0.745 χ^2/NDF : 191.2/10

Left Out: 79.456 ± 0.123 χ^2/NDF : 6077.1/24

Right Out: 48.321 ± 0.700 χ^2/NDF : 755.2/12

Left In: 78.396 ± 0.127 χ^2/NDF : 4707.3/22

Left: 78.941 ± 0.088 χ^2/NDF : 10820.4/47

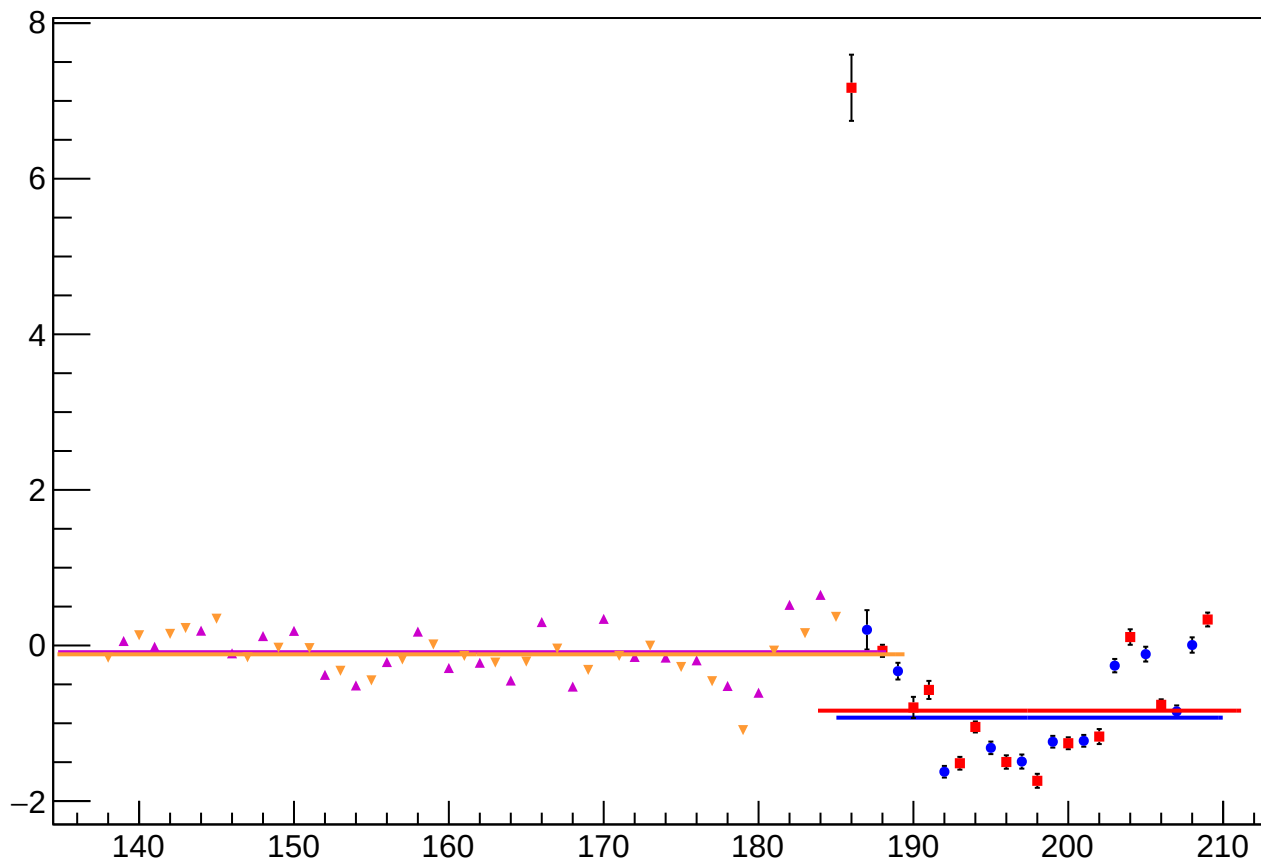
Right: 46.289 ± 0.510 χ^2/NDF : 964.4/23

In: 77.428 ± 0.125 χ^2/NDF : 6972.0/33

Out: 78.520 ± 0.121 χ^2/NDF : 8752.2/37

All: 77.990 ± 0.087 χ^2/NDF : 15763.5/71

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.928 ± 0.027 χ^2/NDF : 454.7/10

Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24

Right Out: -0.838 ± 0.025 χ^2/NDF : 998.3/12

Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47

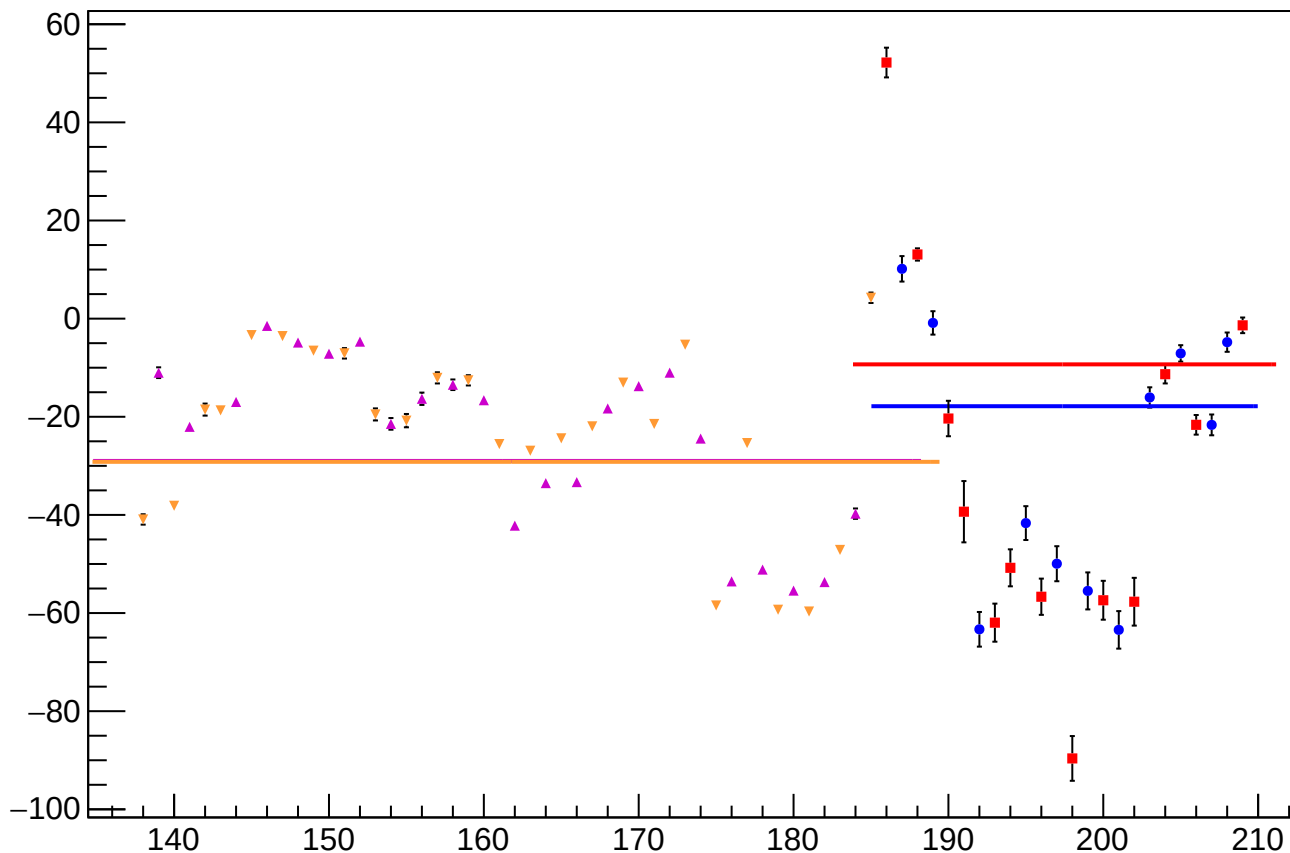
Right: -0.880 ± 0.018 χ^2/NDF : 1459.2/23

In: -0.124 ± 0.006 χ^2/NDF : 4548.4/33

Out: -0.149 ± 0.006 χ^2/NDF : 4103.2/37

All: -0.137 ± 0.004 χ^2/NDF : 8661.3/71

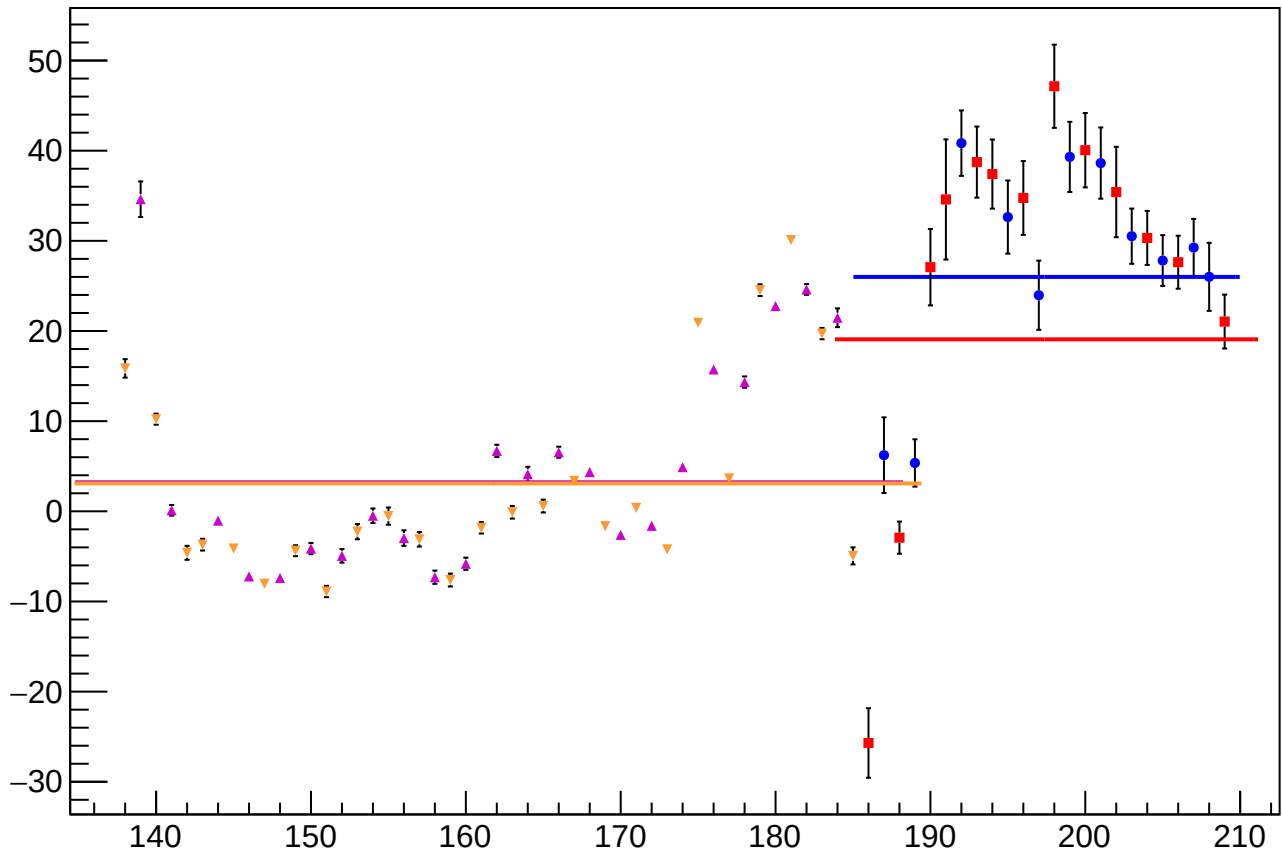
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.848 ± 0.750 χ^2/NDF : 792.3/10
 Left Out: -29.180 ± 0.157 χ^2/NDF : 16912.2/24
 Right Out: -9.318 ± 0.684 χ^2/NDF : 1854.2/12
 Left In: -29.003 ± 0.160 χ^2/NDF : 13416.8/22

Left: -29.093 ± 0.112 χ^2/NDF : 30329.6/47
 Right: -13.189 ± 0.505 χ^2/NDF : 2717.1/23
 In: -28.518 ± 0.156 χ^2/NDF : 14420.7/33
 Out: -28.188 ± 0.153 χ^2/NDF : 19568.4/37
 All: -28.349 ± 0.109 χ^2/NDF : 33991.3/71

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.999 $\pm$ 1.033 χ^2 /NDF: 129.1/10

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF: 8084.1/24

Right Out: 19.076 $\pm$ 0.938 χ^2 /NDF: 454.3/12

Left In: 3.221 $\pm$ 0.127 χ^2 /NDF: 6237.6/22

Left: 3.155 $\pm$ 0.089 χ^2 /NDF: 14322.2/47

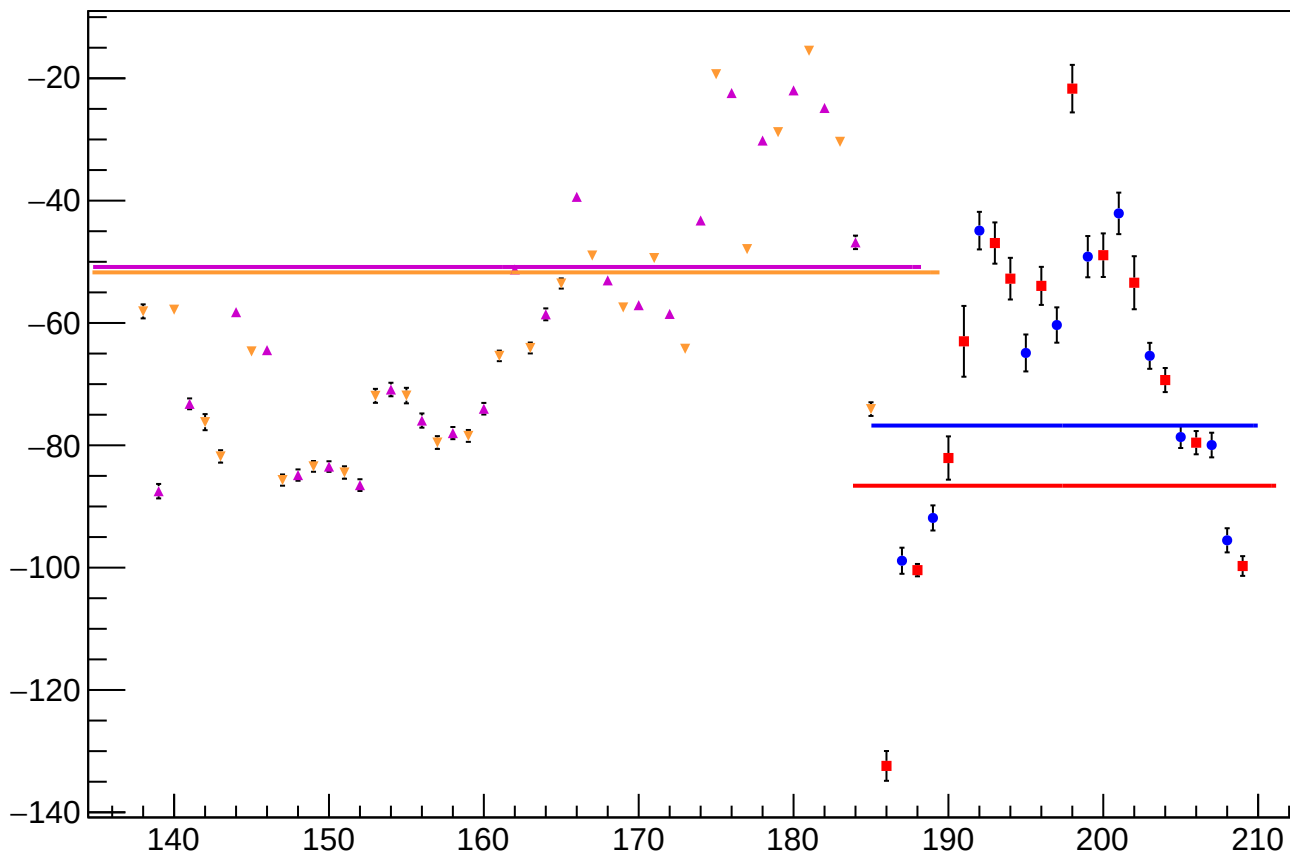
Right: 22.207 $\pm$ 0.694 χ^2 /NDF: 608.0/23

In: 3.560 $\pm$ 0.126 χ^2 /NDF: 6846.2/33

Out: 3.367 $\pm$ 0.123 χ^2 /NDF: 8823.6/37

All: 3.462 $\pm$ 0.088 χ^2 /NDF: 15671.0/71

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -76.772 ± 0.707 χ^2/NDF : 611.1/10

Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24

Right Out: -86.607 ± 0.614 χ^2/NDF : 1512.2/12

Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47

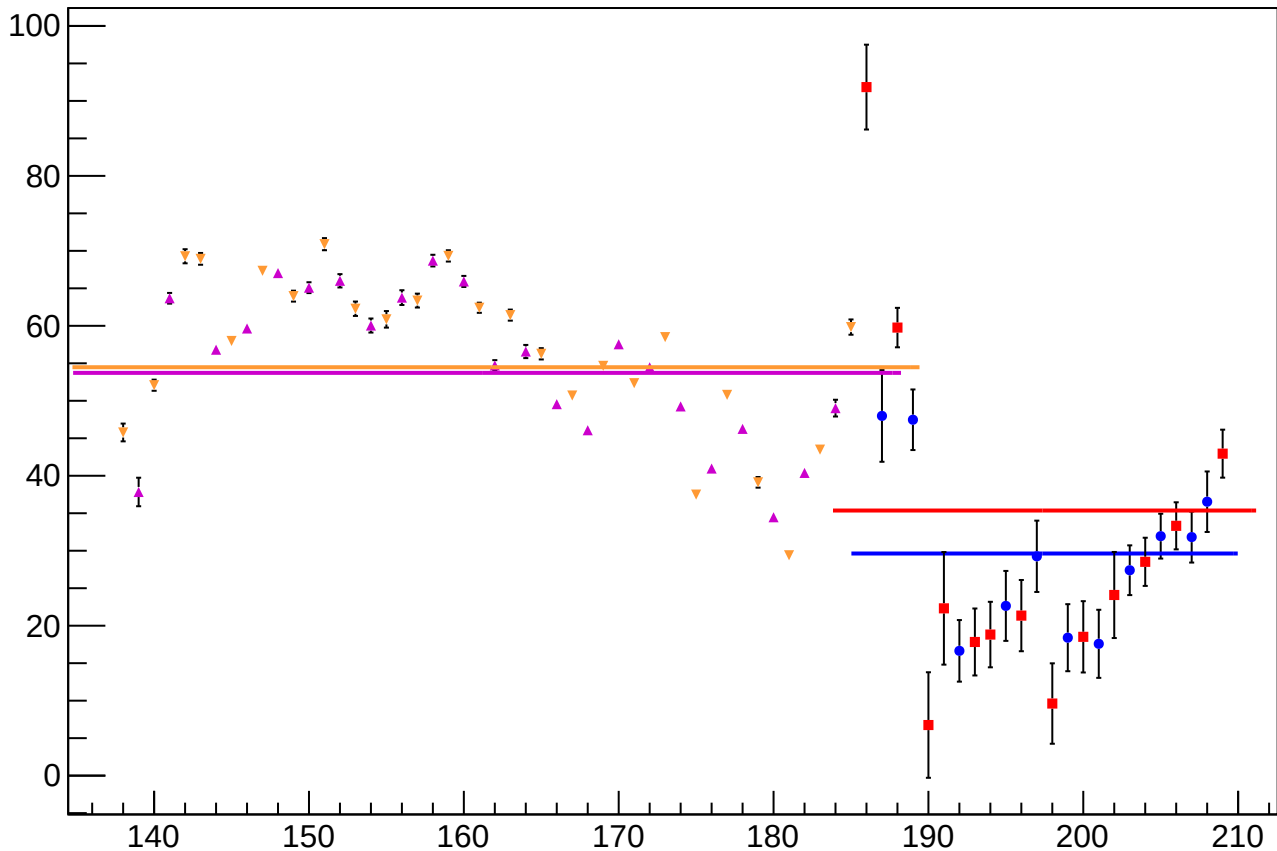
Right: -82.375 ± 0.464 χ^2/NDF : 2233.7/23

In: -52.110 ± 0.156 χ^2/NDF : 19163.4/33

Out: -53.891 ± 0.153 χ^2/NDF : 24075.1/37

All: -53.019 ± 0.109 χ^2/NDF : 43304.9/71

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 29.629 $\pm$ 1.207 χ^2 /NDF: 58.5/10

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF: 6266.9/24

Right Out: 35.363 $\pm$ 1.143 χ^2 /NDF: 293.6/12

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

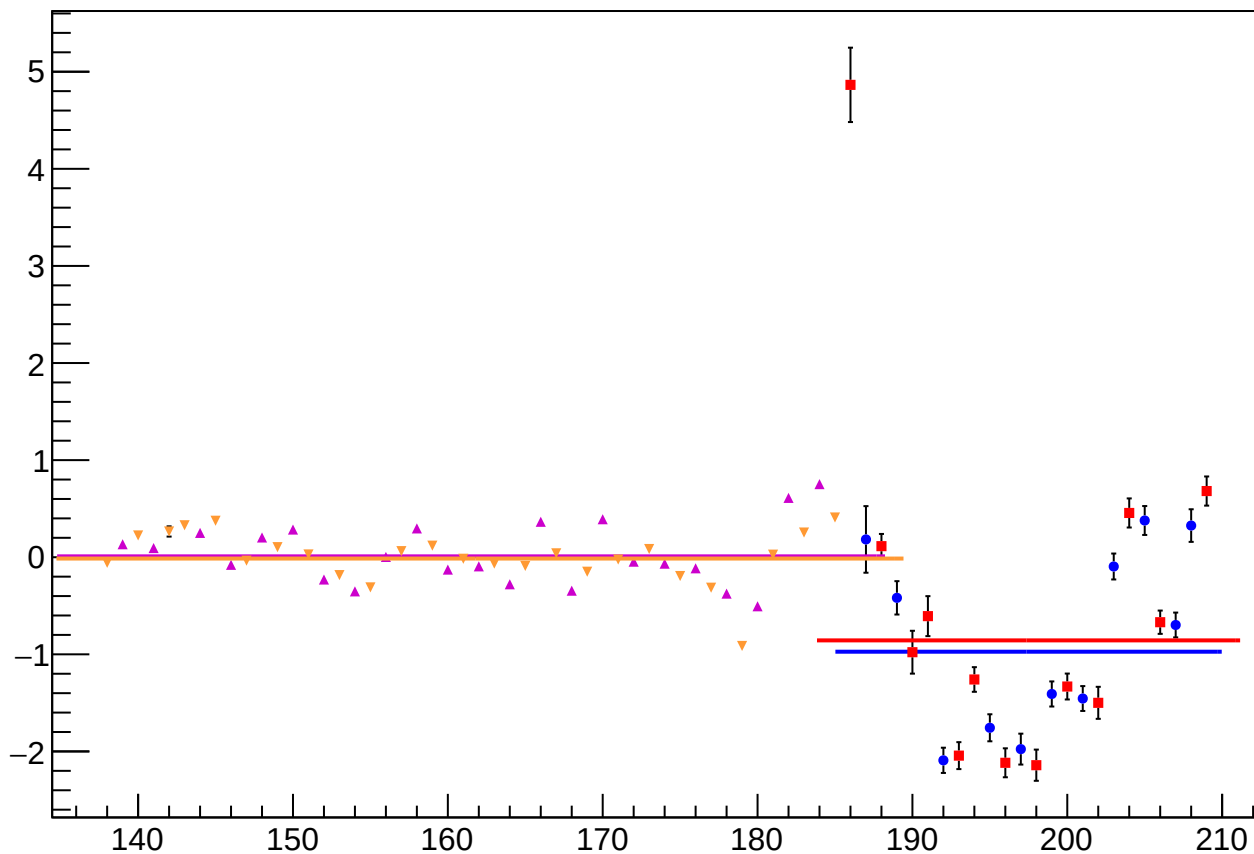
Right: 32.653 $\pm$ 0.830 χ^2 /NDF: 364.0/23

In: 53.390 $\pm$ 0.142 χ^2 /NDF: 5037.1/33

Out: 54.192 $\pm$ 0.139 χ^2 /NDF: 6836.1/37

All: 53.799 $\pm$ 0.099 χ^2 /NDF: 11889.5/71

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.973 ± 0.044 χ^2/NDF : 383.0/10

Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24

Right Out: -0.856 ± 0.042 χ^2/NDF : 715.2/12

Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47

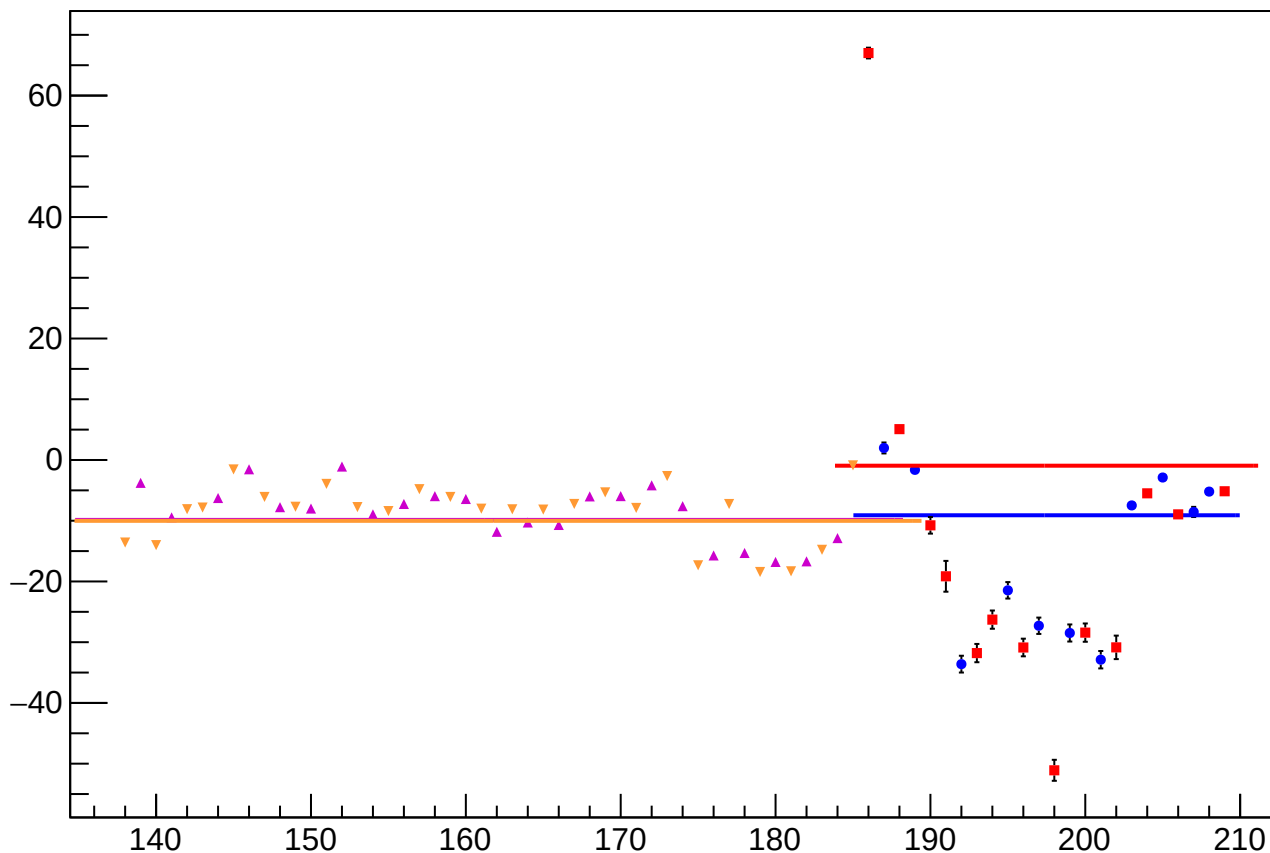
Right: -0.912 ± 0.030 χ^2/NDF : 1101.8/23

In: -0.012 ± 0.006 χ^2/NDF : 3086.3/33

Out: -0.033 ± 0.006 χ^2/NDF : 2760.9/37

All: -0.023 ± 0.005 χ^2/NDF : 5852.5/71

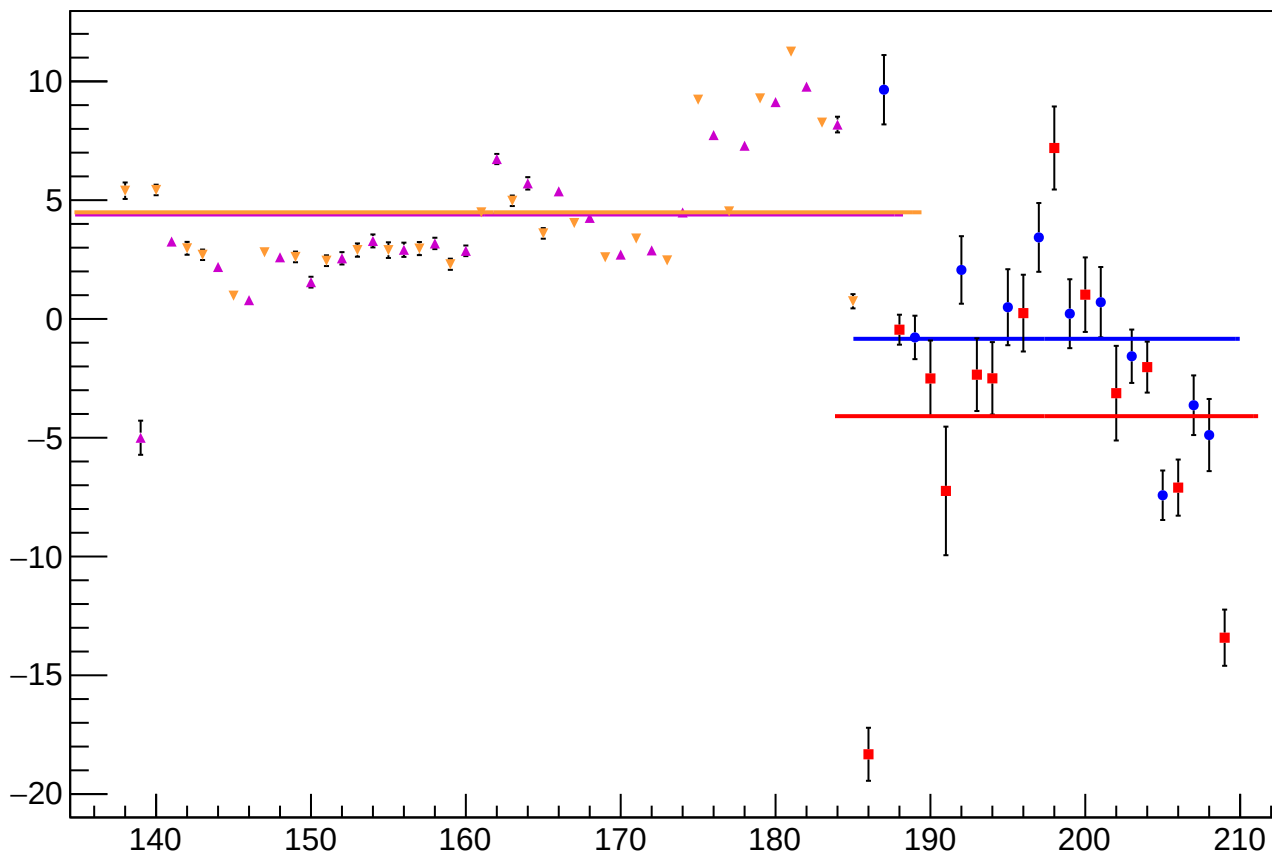
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.101 ± 0.280 $\chi^2/\text{NDF}: 1410.2/10$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: -0.939 ± 0.253 $\chi^2/\text{NDF}: 8915.5/12$
 Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$
 Right: -4.601 ± 0.188 $\chi^2/\text{NDF}: 10794.3/23$
 In: -9.840 ± 0.051 $\chi^2/\text{NDF}: 10762.8/33$
 Out: -9.666 ± 0.050 $\chi^2/\text{NDF}: 22710.4/37$
 All: -9.752 ± 0.035 $\chi^2/\text{NDF}: 33479.3/71$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.836 ± 0.385 χ^2/NDF : 119.2/10

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -4.092 ± 0.346 χ^2/NDF : 332.7/12

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

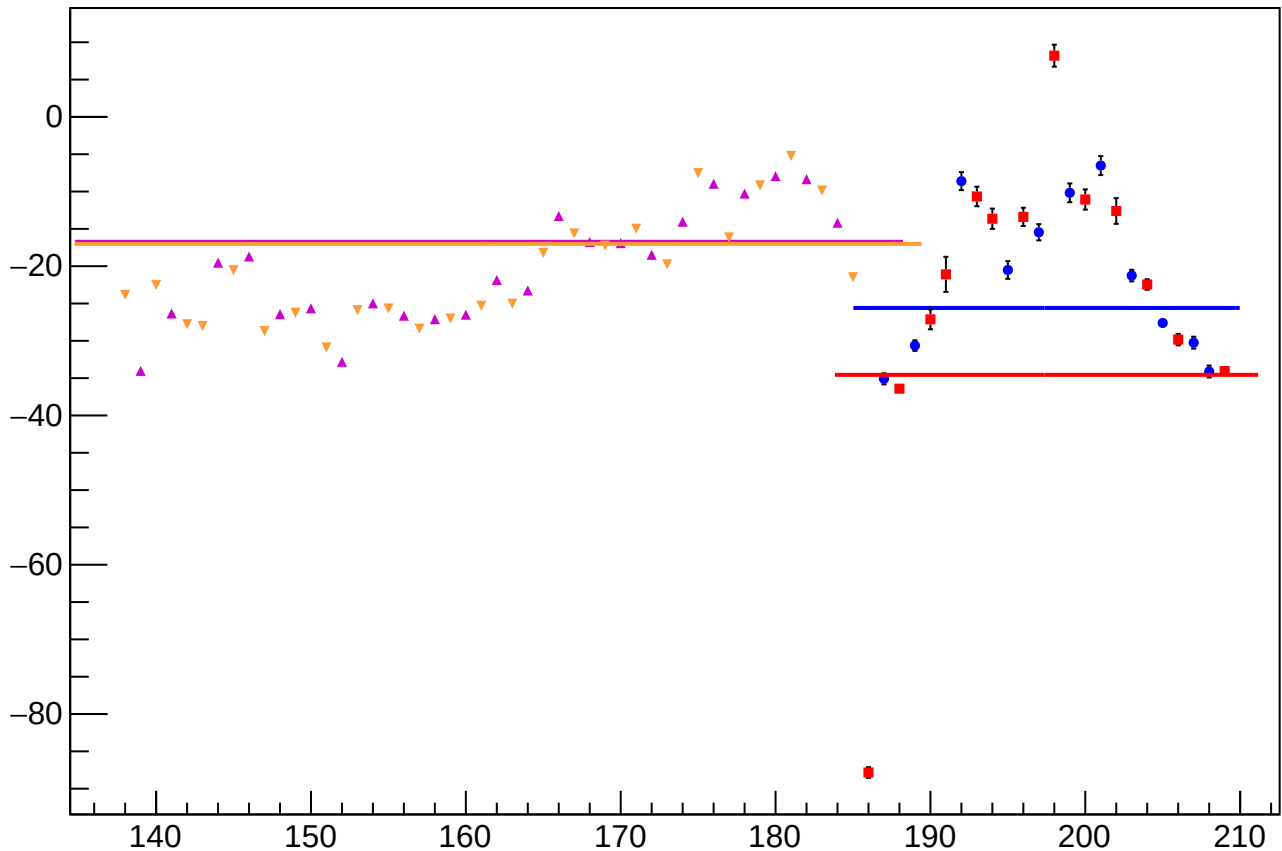
Right: -2.640 ± 0.257 χ^2/NDF : 491.6/23

In: 4.337 ± 0.041 χ^2/NDF : 4532.1/33

Out: 4.371 ± 0.040 χ^2/NDF : 5773.0/37

All: 4.354 ± 0.029 χ^2/NDF : 10305.5/71

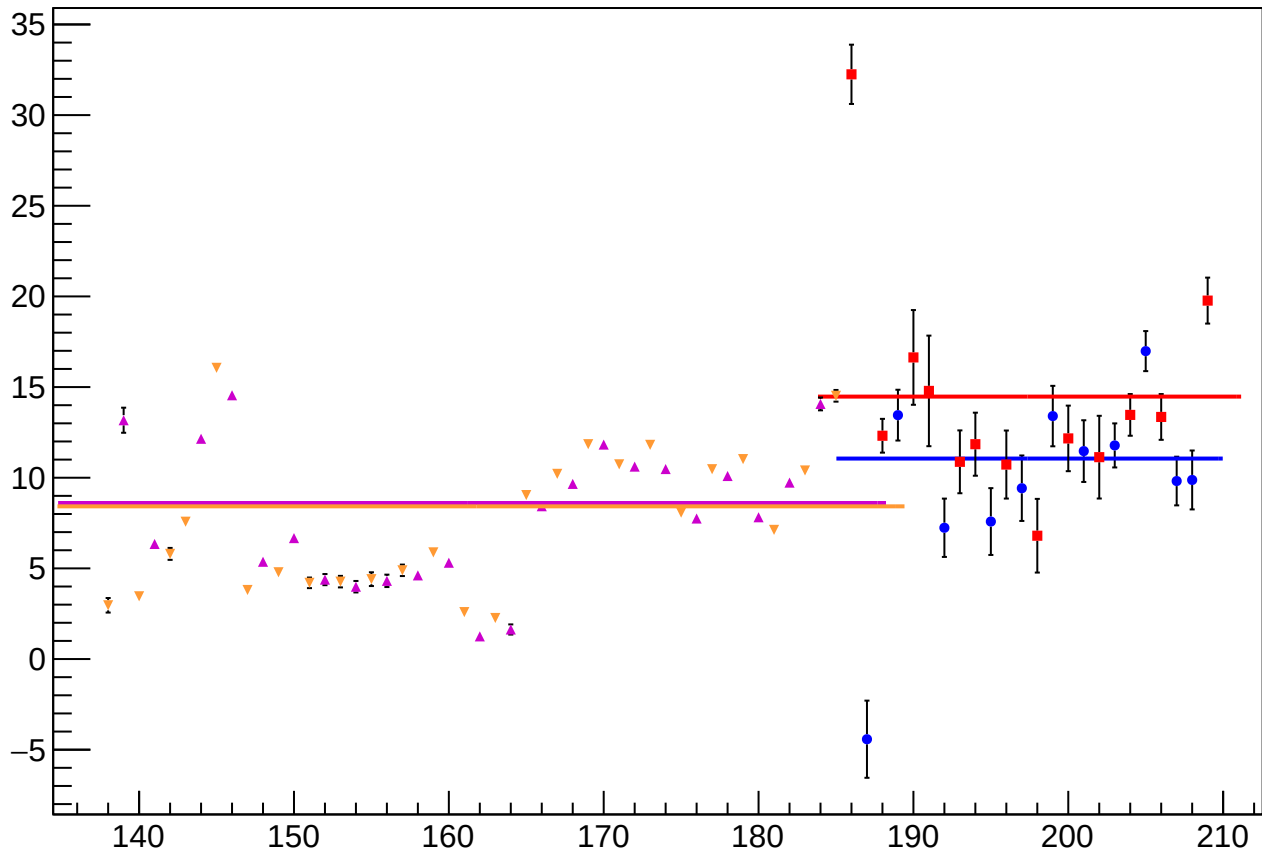
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -25.593 ± 0.263 χ^2/NDF : 1084.6/10
 Left Out: -17.008 ± 0.051 χ^2/NDF : 22094.7/24
 Right Out: -34.557 ± 0.225 χ^2/NDF : 8217.8/12
 Left In: -16.732 ± 0.052 χ^2/NDF : 18777.2/22

Left: -16.871 ± 0.036 χ^2/NDF : 40886.5/47
 Right: -30.776 ± 0.171 χ^2/NDF : 9972.7/23
 In: -17.059 ± 0.051 χ^2/NDF : 20953.0/33
 Out: -17.869 ± 0.050 χ^2/NDF : 36103.3/37
 All: -17.470 ± 0.035 χ^2/NDF : 57186.6/71

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.057 $\pm$ 0.454 χ^2 /NDF: 98.4/10

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF:6470.1/24

Right Out: 14.475 $\pm$ 0.427 χ^2 /NDF: 171.8/12

Left In: 8.606 $\pm$ 0.046 χ^2 /NDF:5504.2/22

Left: 8.513 $\pm$ 0.032 χ^2 /NDF: 11982.4/47

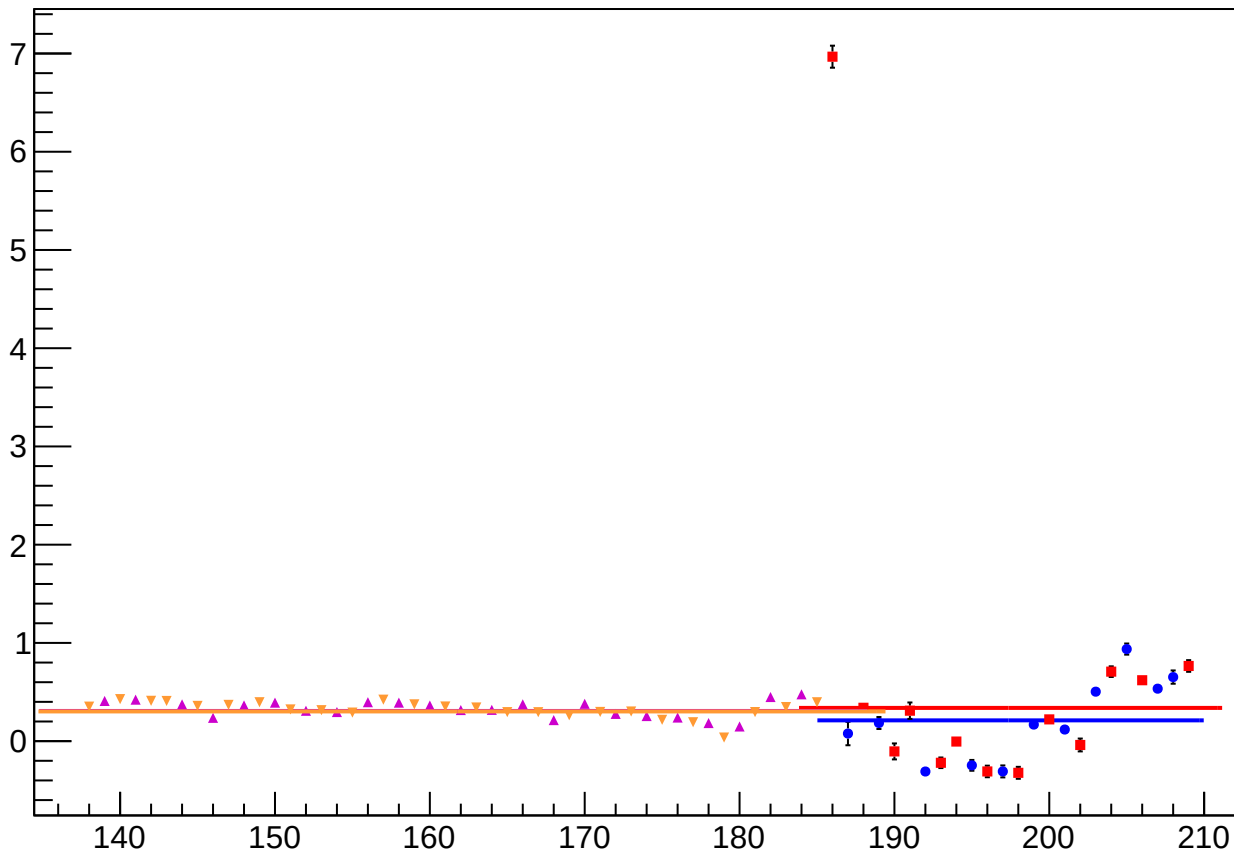
Right: 12.869 $\pm$ 0.311 χ^2 /NDF: 300.3/23

In: 8.632 $\pm$ 0.046 χ^2 /NDF:5631.5/33

Out: 8.490 $\pm$ 0.045 χ^2 /NDF:6840.3/37

All: 8.560 $\pm$ 0.032 χ^2 /NDF: 12476.6/71

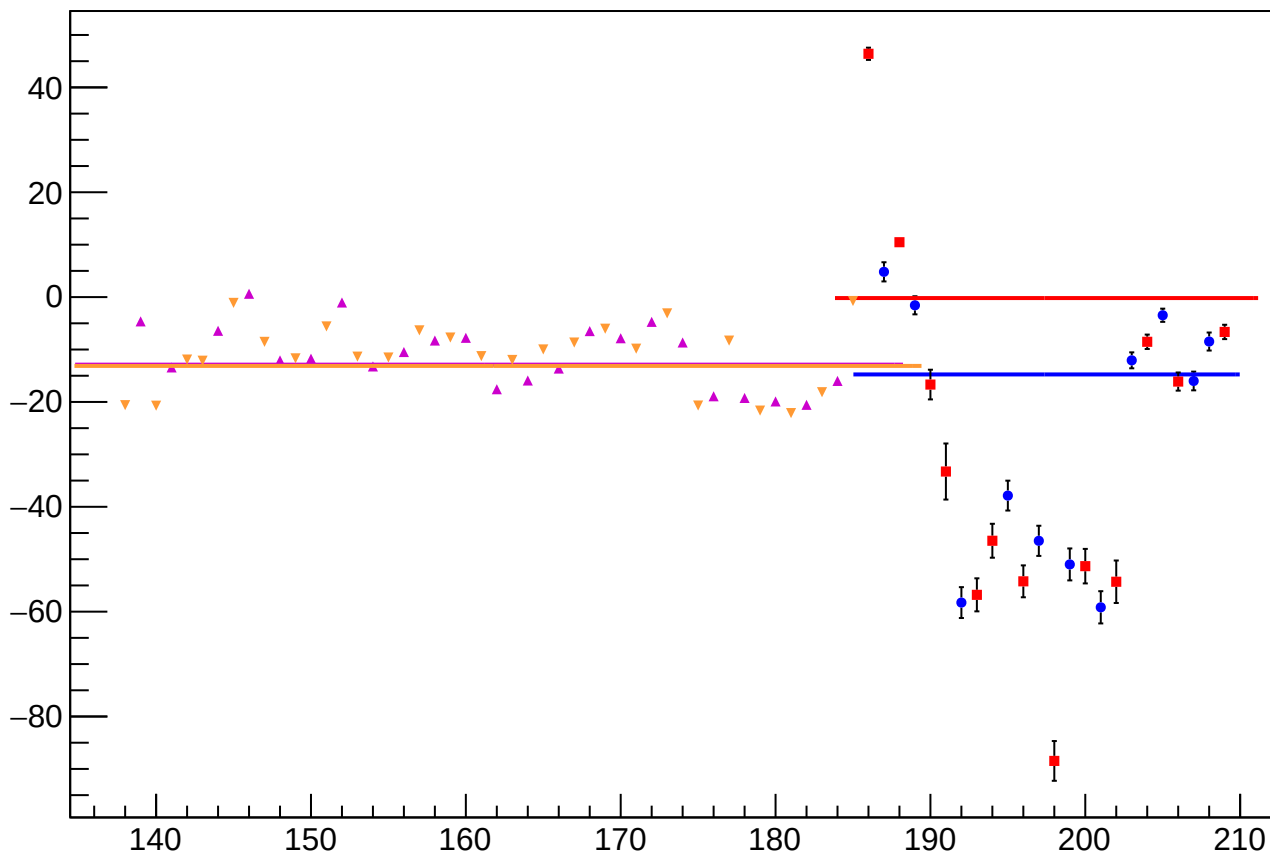
reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Left: 0.305 ± 0.001 $\chi^2/\text{NDF}: 3293.0/47$
 Right: 0.278 ± 0.012 $\chi^2/\text{NDF}: 4647.9/23$
 In: 0.306 ± 0.002 $\chi^2/\text{NDF}: 2265.5/33$
 Out: 0.303 ± 0.002 $\chi^2/\text{NDF}: 5679.9/37$
 All: 0.304 ± 0.001 $\chi^2/\text{NDF}: 7946.2/71$

Right In: 0.212 ± 0.017 $\chi^2/\text{NDF}: 534.3/10$
 Left Out: 0.302 ± 0.002 $\chi^2/\text{NDF}: 1590.9/24$
 Right Out: 0.338 ± 0.016 $\chi^2/\text{NDF}: 4084.1/12$
 Left In: 0.307 ± 0.002 $\chi^2/\text{NDF}: 1699.5/22$

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.751 ± 0.585 $\chi^2/\text{NDF}: 1026.7/10$

Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$

Right Out: -0.184 ± 0.502 $\chi^2/\text{NDF}: 3746.6/12$

Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

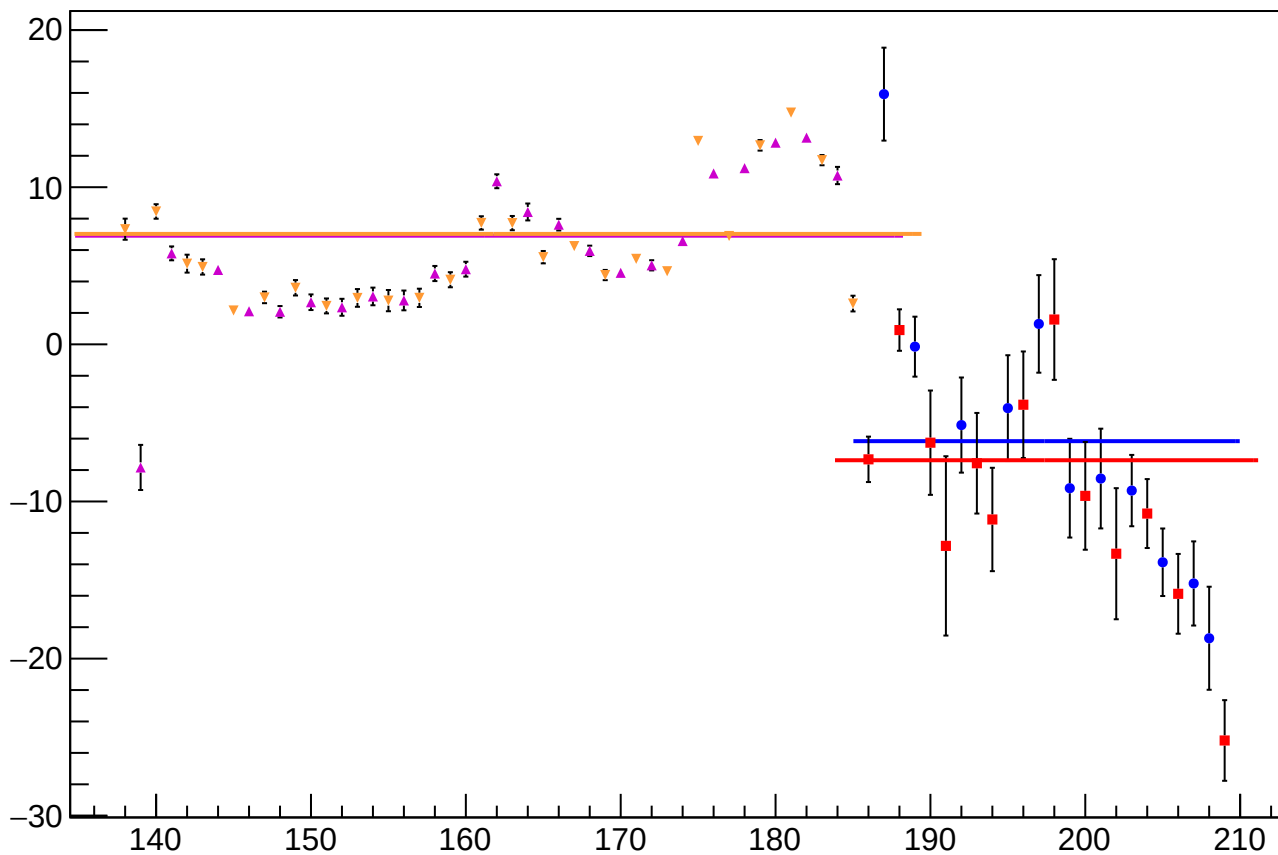
Right: -6.364 ± 0.381 $\chi^2/\text{NDF}: 5130.7/23$

In: -12.933 ± 0.094 $\chi^2/\text{NDF}: 5812.8/33$

Out: -12.690 ± 0.092 $\chi^2/\text{NDF}: 10366.6/37$

All: -12.809 ± 0.066 $\chi^2/\text{NDF}: 16182.8/71$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.161 ± 0.807 χ^2/NDF : 114.3/10

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -7.376 ± 0.678 χ^2/NDF : 112.7/12

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

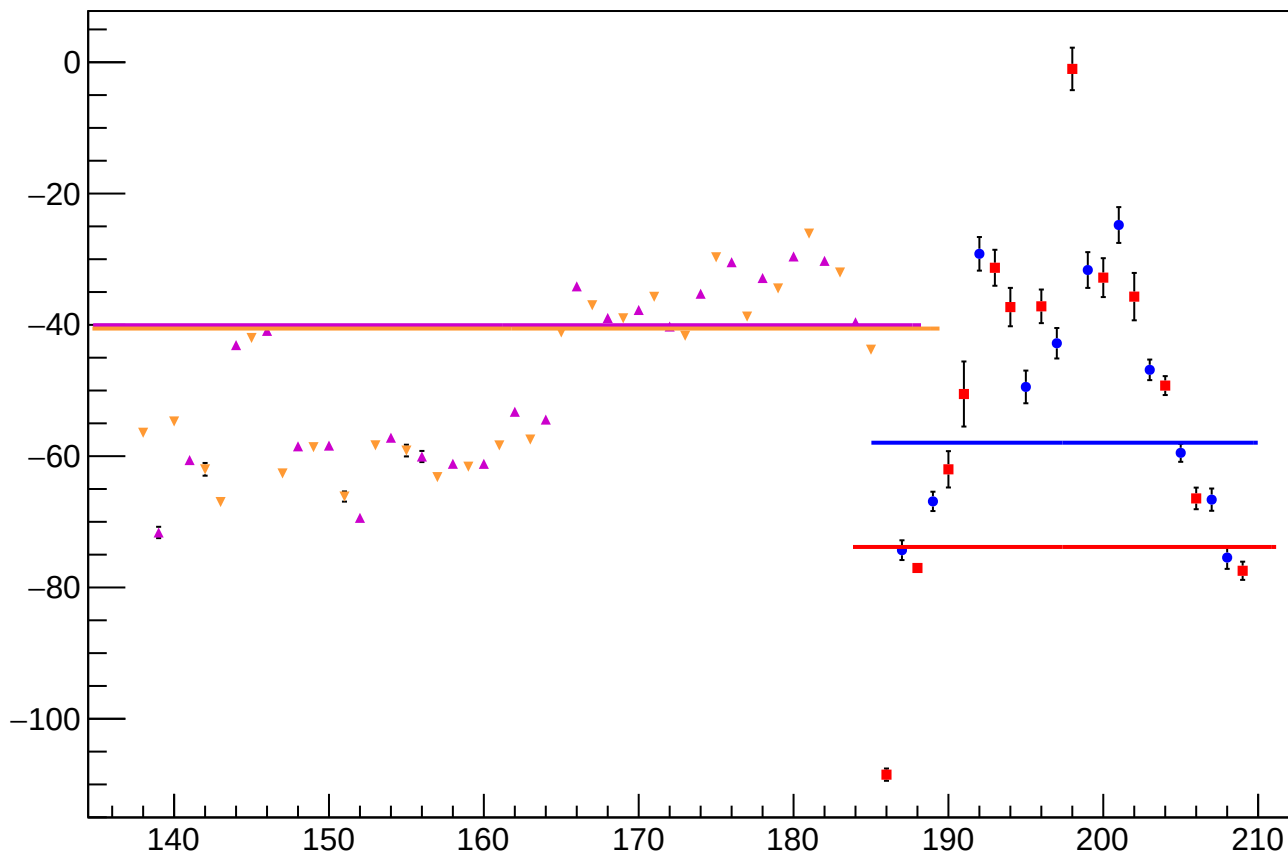
Right: -6.874 ± 0.519 χ^2/NDF : 228.3/23

In: 6.794 ± 0.077 χ^2/NDF : 2802.4/33

Out: 6.843 ± 0.077 χ^2/NDF : 3223.8/37

All: 6.819 ± 0.054 χ^2/NDF : 6026.4/71

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



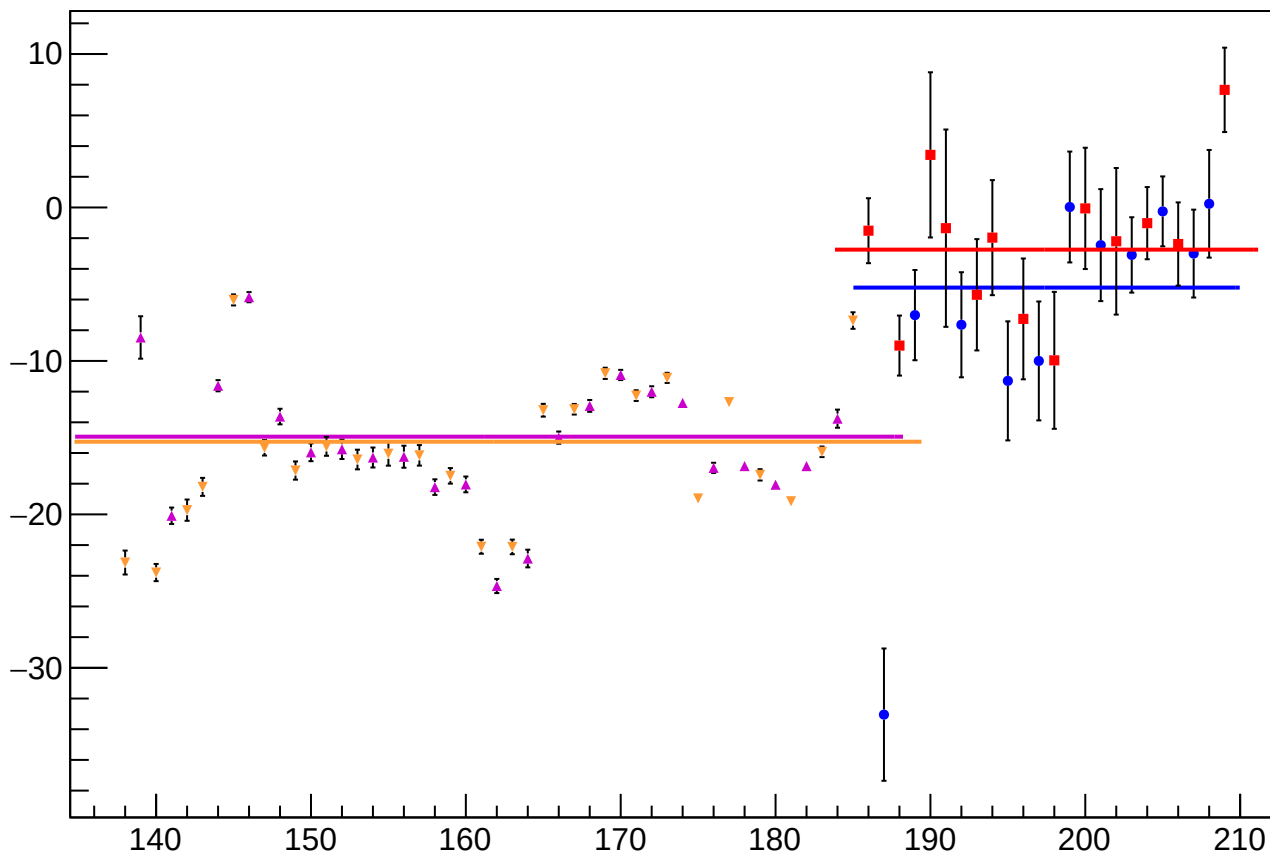
Right In: -57.949 ± 0.551 χ^2/NDF : 757.7/10
 Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24
 Right Out: -73.829 ± 0.441 χ^2/NDF : 3163.2/12
 Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47
 Right: -67.625 ± 0.344 χ^2/NDF : 4427.7/23

In: -40.578 ± 0.094 χ^2/NDF : 15710.6/33
 Out: -42.031 ± 0.093 χ^2/NDF : 24243.2/37

All: -41.317 ± 0.066 χ^2/NDF : 40074.8/71

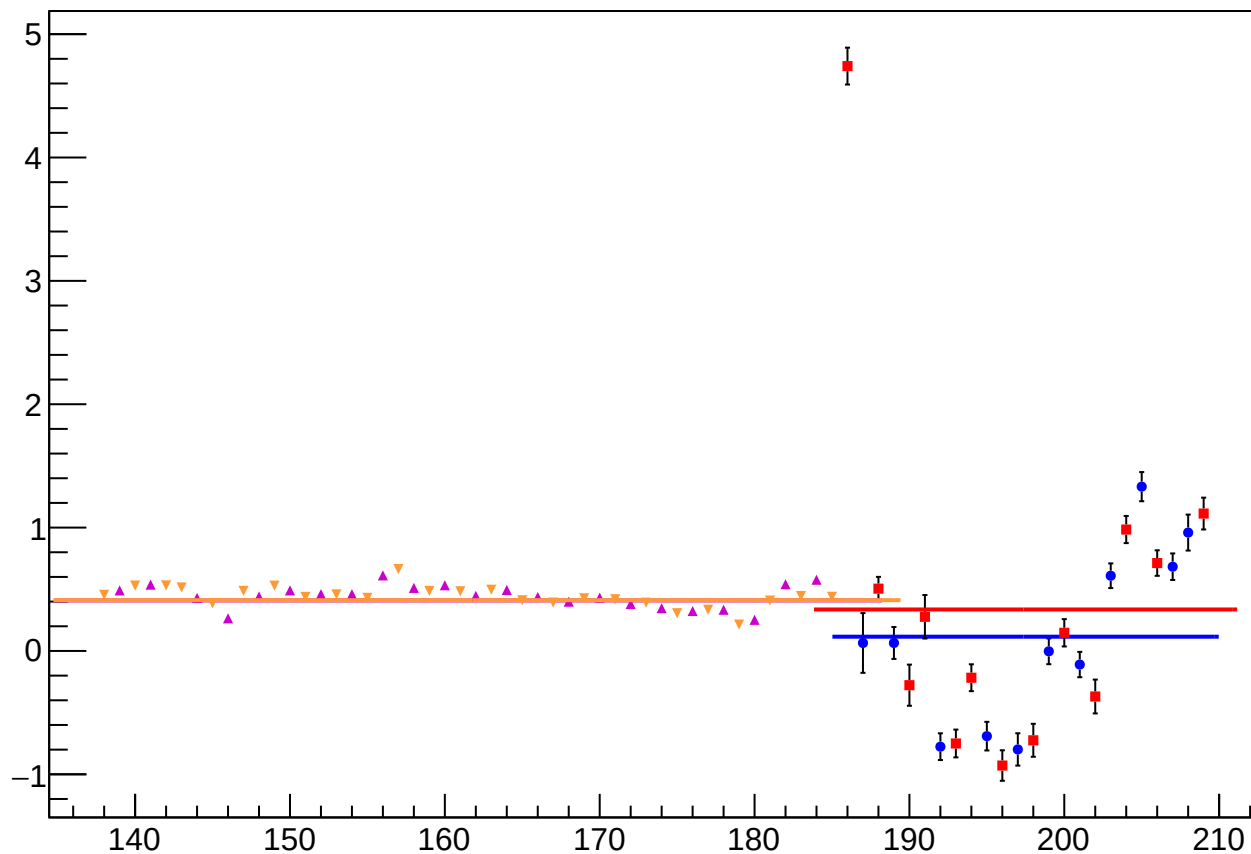
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.221 ± 0.953 $\chi^2/\text{NDF}: 57.7/10$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -2.748 ± 0.857 $\chi^2/\text{NDF}: 31.9/12$
 Left In: -14.936 ± 0.087 $\chi^2/\text{NDF}: 2199.7/22$

Left: -15.103 ± 0.061 $\chi^2/\text{NDF}: 4802.4/47$
 Right: -3.853 ± 0.637 $\chi^2/\text{NDF}: 93.4/23$
 In: -14.856 ± 0.086 $\chi^2/\text{NDF}: 2360.5/33$
 Out: -15.141 ± 0.085 $\chi^2/\text{NDF}: 2838.7/37$
 All: -15.000 ± 0.061 $\chi^2/\text{NDF}: 5204.7/71$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.116+/-0.036 χ^2/NDF : 362.7/10

Left Out: 0.411+/-0.004 χ^2/NDF : 428.7/24

Right Out: 0.336+/-0.034 χ^2/NDF : 1286.4/12

Left In: 0.409+/-0.004 χ^2/NDF : 557.8/22

Left: 0.410+/-0.003 χ^2/NDF : 986.7/47

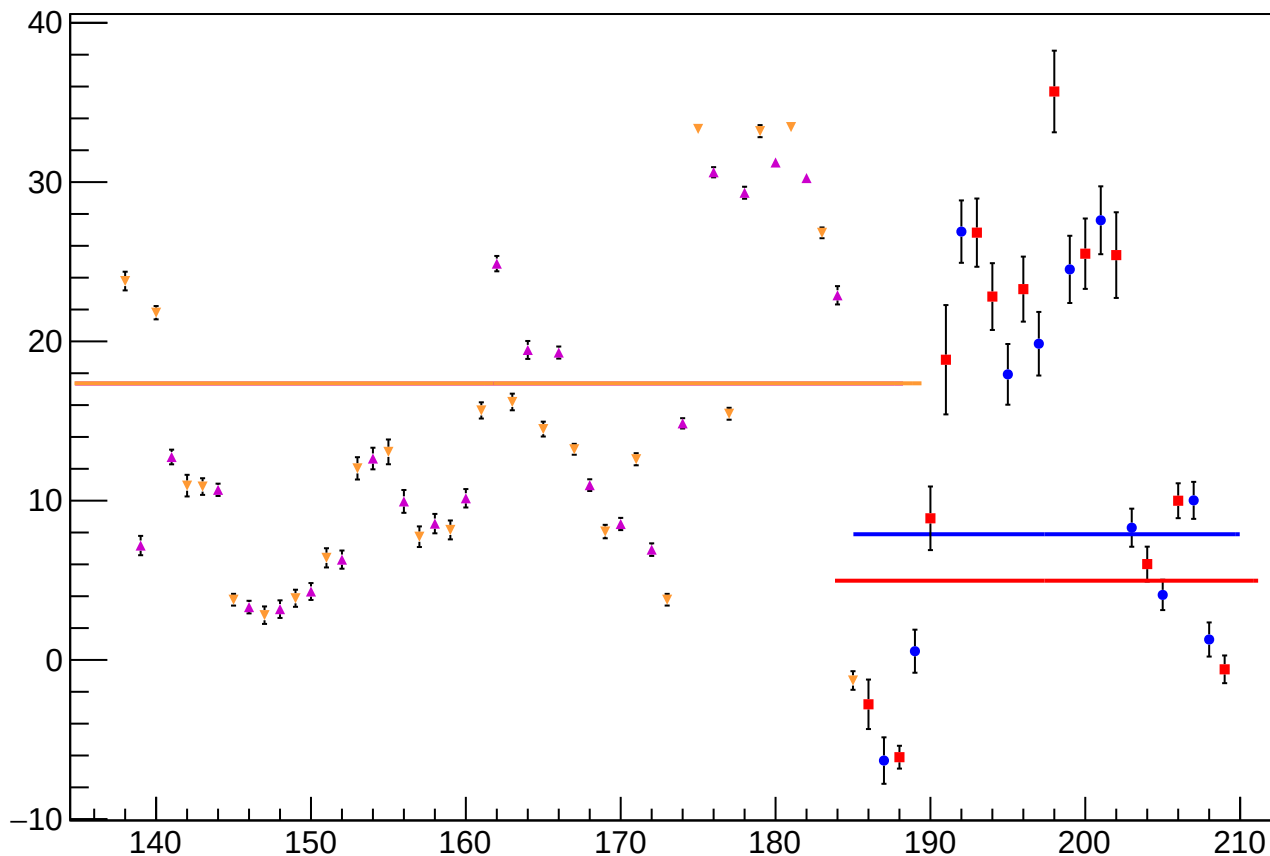
Right: 0.232+/-0.025 χ^2/NDF : 1669.3/23

In: 0.406+/-0.004 χ^2/NDF : 987.6/33

Out: 0.410+/-0.004 χ^2/NDF : 1720.0/37

All: 0.408+/-0.003 χ^2/NDF : 2708.3/71

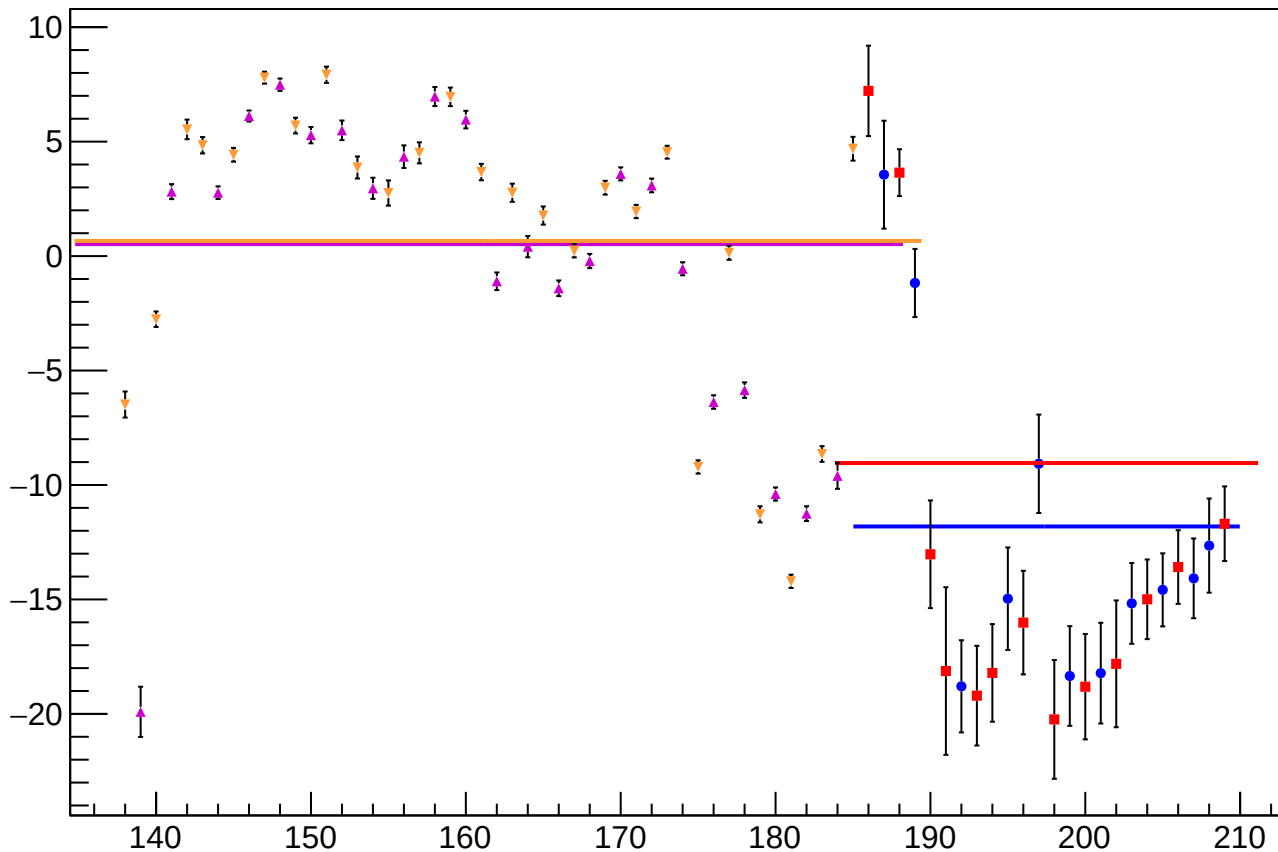
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.892 ± 0.420 $\chi^2/\text{NDF}: 487.3/10$
 Left Out: 17.367 ± 0.087 $\chi^2/\text{NDF}: 16337.6/24$
 Right Out: 4.975 ± 0.382 $\chi^2/\text{NDF}: 891.5/12$
 Left In: 17.355 ± 0.089 $\chi^2/\text{NDF}: 12745.1/22$

Left: 17.361 ± 0.062 $\chi^2/\text{NDF}: 29082.8/47$
 Right: 6.293 ± 0.282 $\chi^2/\text{NDF}: 1405.2/23$
 In: 16.950 ± 0.087 $\chi^2/\text{NDF}: 13717.9/33$
 Out: 16.753 ± 0.085 $\chi^2/\text{NDF}: 18231.8/37$
 All: 16.849 ± 0.061 $\chi^2/\text{NDF}: 31952.3/71$

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.812 ± 0.578 χ^2/NDF : 135.2/10

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -9.041 ± 0.523 χ^2/NDF : 349.4/12

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

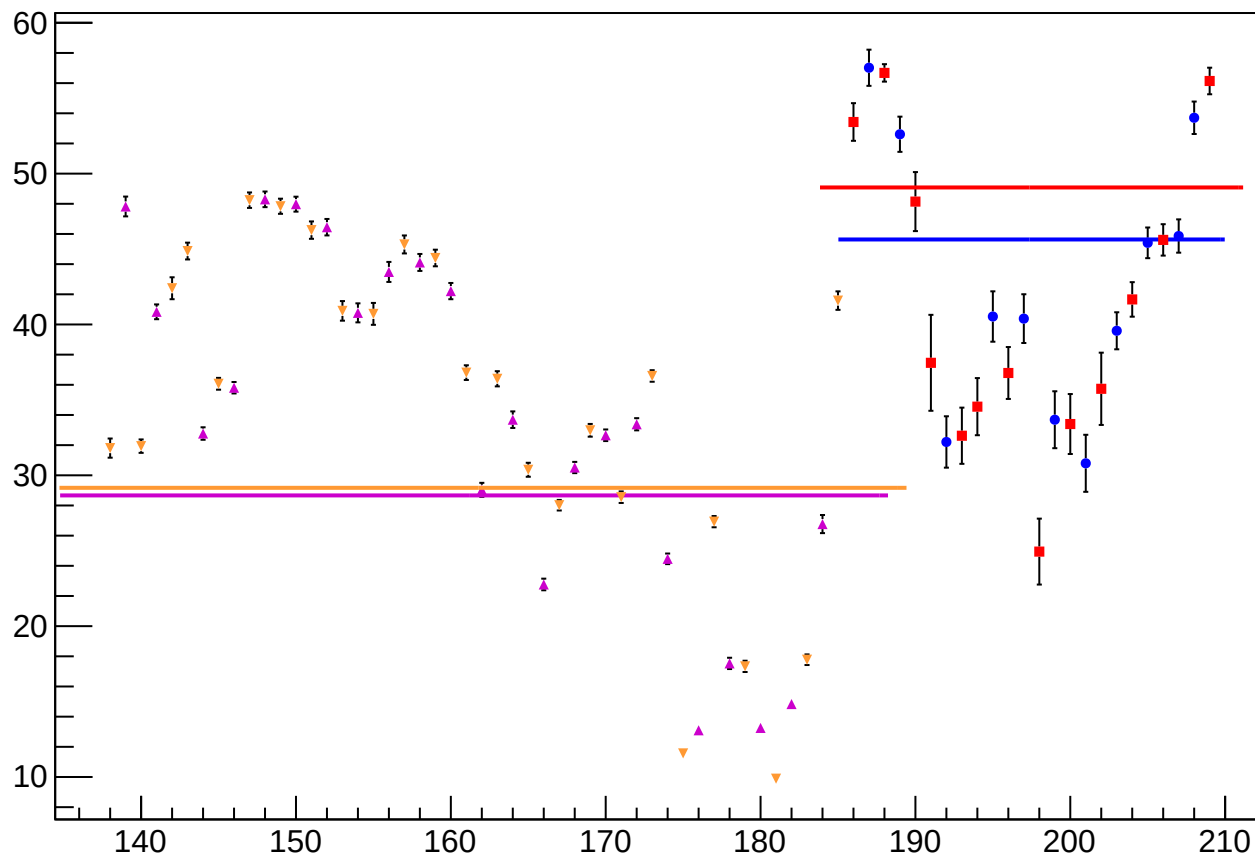
Right: -10.288 ± 0.388 χ^2/NDF : 497.2/23

In: 0.342 ± 0.070 χ^2/NDF : 7313.4/33

Out: 0.493 ± 0.069 χ^2/NDF : 9241.2/37

All: 0.419 ± 0.049 χ^2/NDF : 16557.0/71

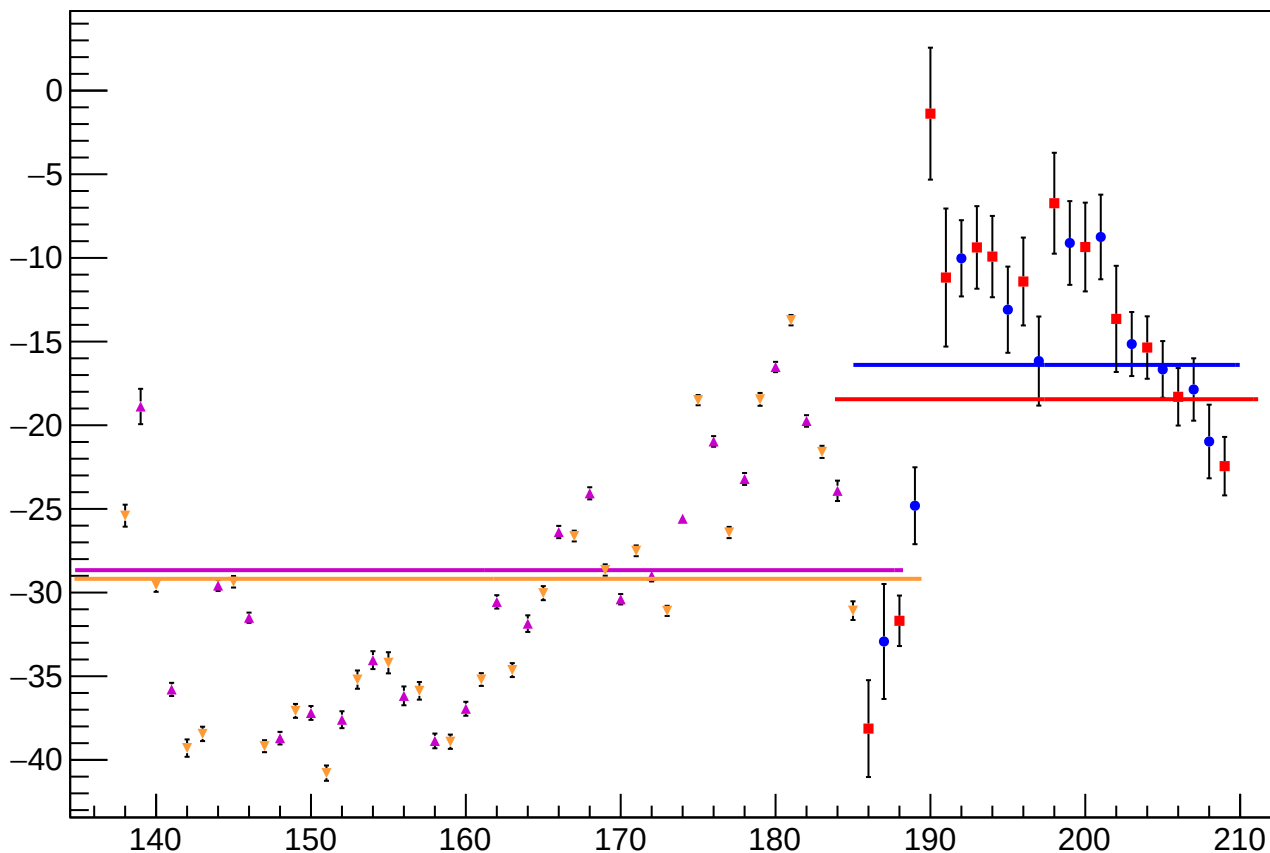
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 45.635 $\pm$ 0.396 χ^2 /NDF: 390.3/10
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 49.083 $\pm$ 0.343 χ^2 /NDF: 718.7/12
 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: 47.603 $\pm$ 0.259 χ^2 /NDF: 1152.5/23
 In: 29.487 $\pm$ 0.087 χ^2 /NDF:18989.2/33
 Out: 30.396 $\pm$ 0.085 χ^2 /NDF:22858.3/37
 All: 29.952 $\pm$ 0.061 χ^2 /NDF: 41903.3/71

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



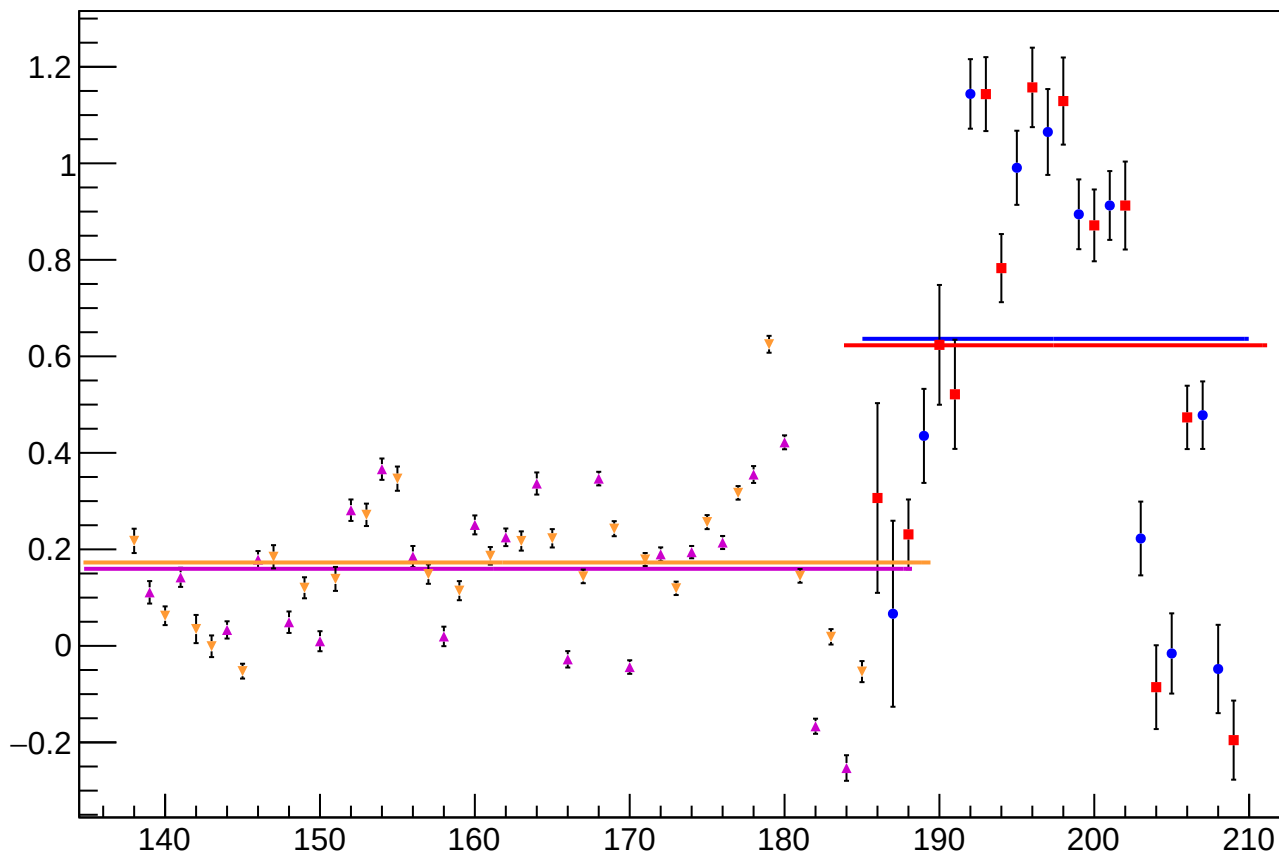
Right In: -16.394 ± 0.676 $\chi^2/\text{NDF}: 69.1/10$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -18.445 ± 0.637 $\chi^2/\text{NDF}: 215.2/12$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -17.480 ± 0.463 $\chi^2/\text{NDF}: 289.1/23$

In: -28.491 ± 0.079 $\chi^2/\text{NDF}: 7064.2/33$
 Out: -29.019 ± 0.078 $\chi^2/\text{NDF}: 9576.4/37$

All: -28.761 ± 0.055 $\chi^2/\text{NDF}: 16663.2/71$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.636 $\pm$ 0.025 χ^2 /NDF: 286.7/10

Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.5/24

Right Out: 0.623 $\pm$ 0.023 χ^2 /NDF: 350.3/12

Left In: 0.160 $\pm$ 0.004 χ^2 /NDF:2057.9/22

Left: 0.166 $\pm$ 0.003 χ^2 /NDF: 3542.9/47

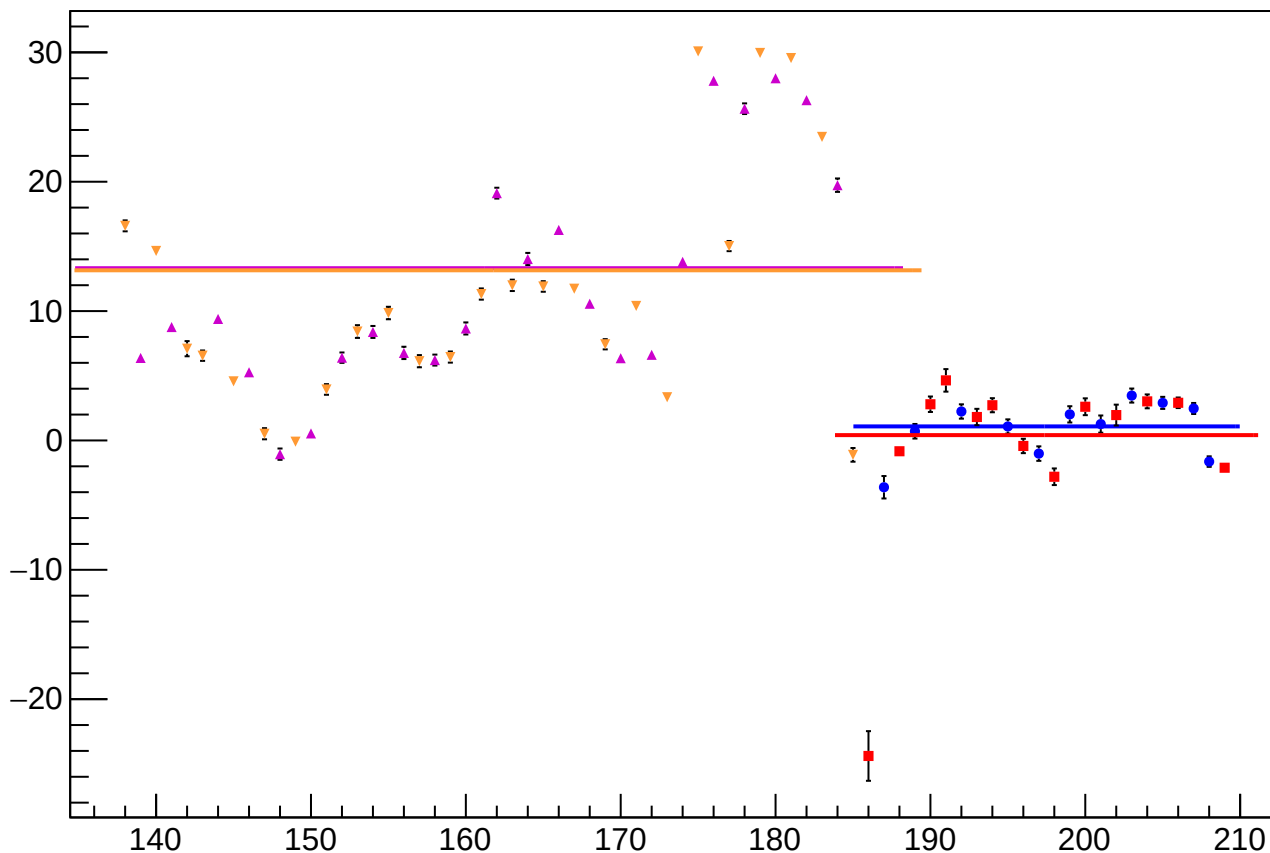
Right: 0.629 $\pm$ 0.017 χ^2 /NDF: 637.1/23

In: 0.170 $\pm$ 0.004 χ^2 /NDF:2710.8/33

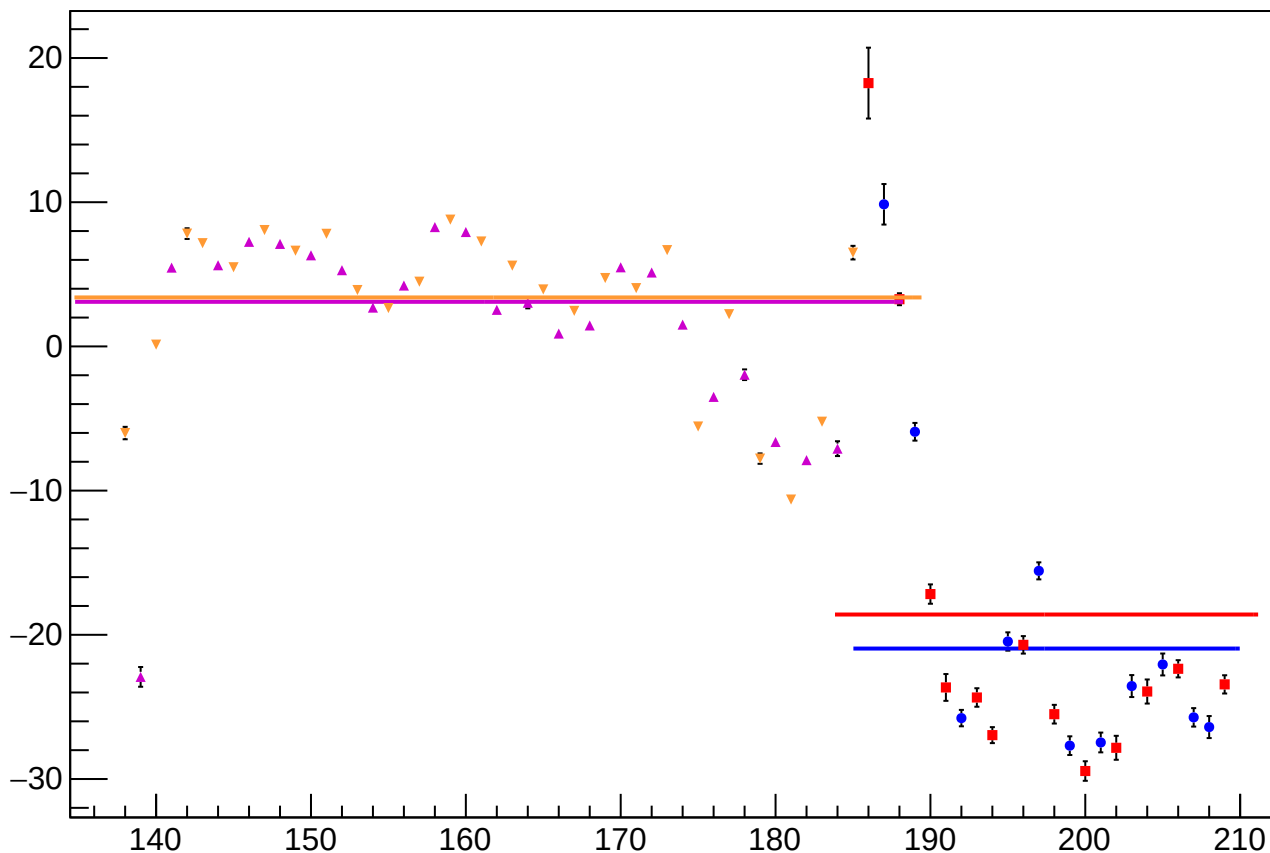
Out: 0.183 $\pm$ 0.004 χ^2 /NDF:2188.1/37

All: 0.177 $\pm$ 0.003 χ^2 /NDF: 4905.7/71

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -20.953 ± 0.205 χ^2/NDF : 1553.8/10

Left Out: 3.396 ± 0.058 χ^2/NDF : 8101.5/24

Right Out: -18.593 ± 0.181 χ^2/NDF : 3996.3/12

Left In: 3.092 ± 0.061 χ^2/NDF : 7104.4/22

Left: 3.250 ± 0.042 χ^2/NDF : 15218.9/47

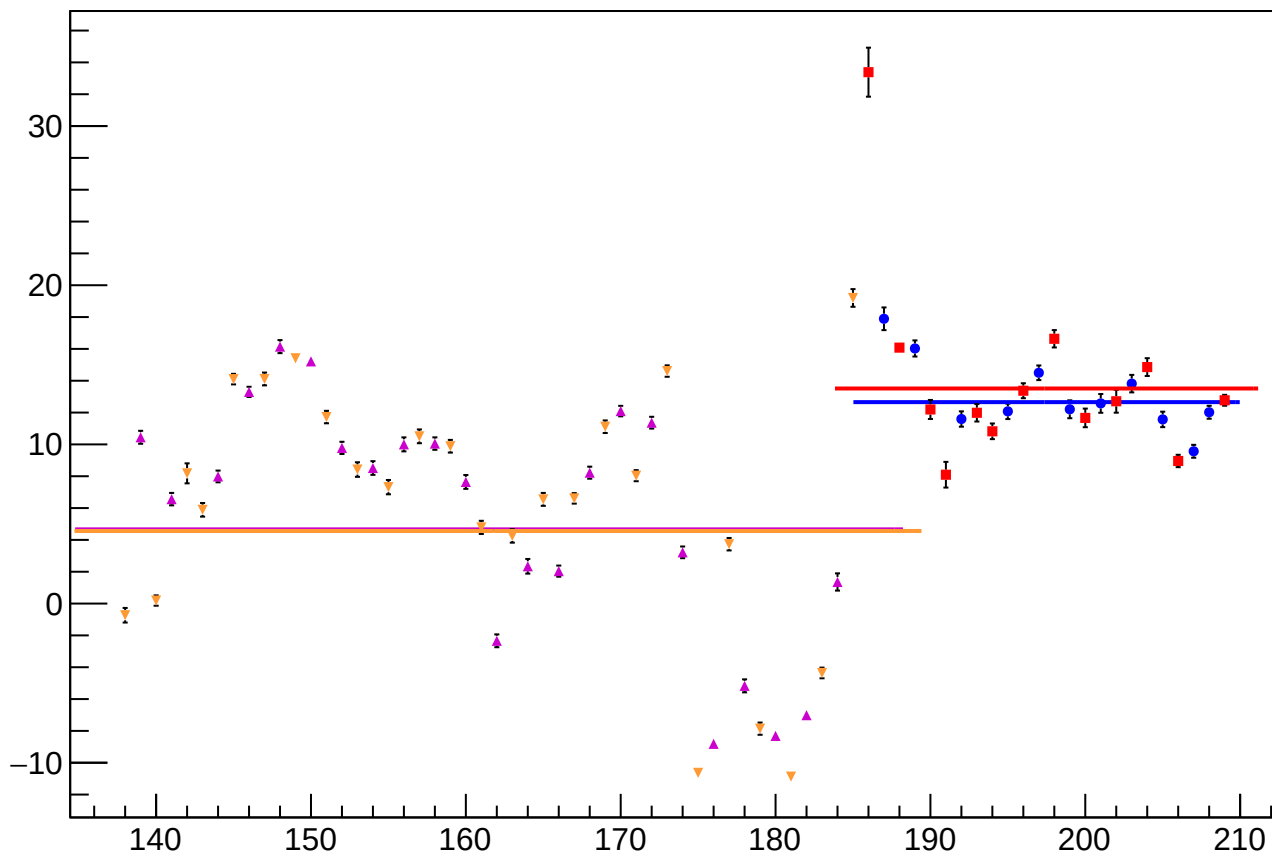
Right: -19.625 ± 0.136 χ^2/NDF : 5624.5/23

In: 1.168 ± 0.058 χ^2/NDF : 21268.3/33

Out: 1.325 ± 0.056 χ^2/NDF : 25461.2/37

All: 1.250 ± 0.040 χ^2/NDF : 46733.3/71

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 12.655+/-0.149 χ^2/NDF : 191.1/10

Left Out: 4.561+/-0.075 χ^2/NDF : 13592.1/24

Right Out: 13.512+/-0.127 χ^2/NDF : 572.1/12

Left In: 4.662+/-0.077 χ^2/NDF : 11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

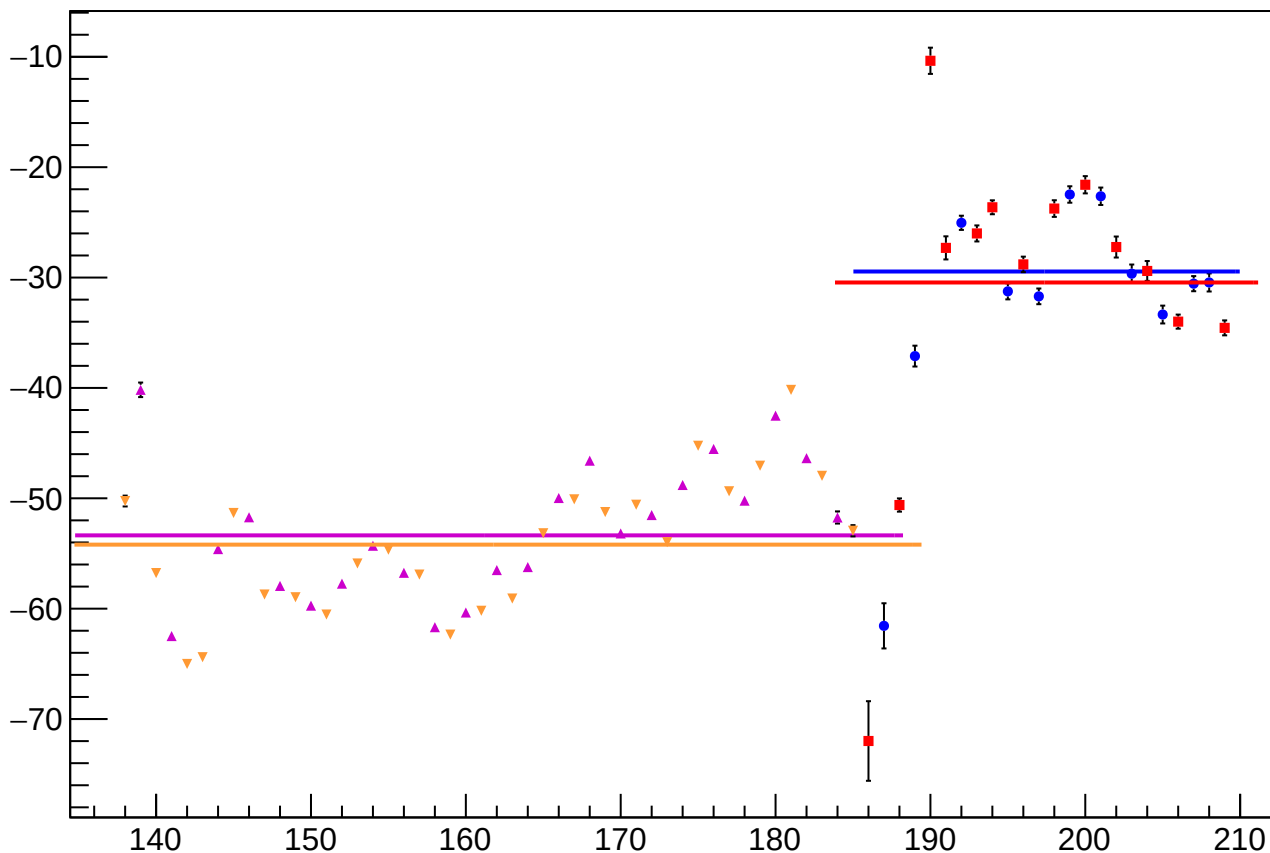
Right: 13.154+/-0.097 χ^2/NDF : 782.4/23

In: 6.335+/-0.068 χ^2/NDF : 13739.9/33

Out: 6.906+/-0.065 χ^2/NDF : 17858.0/37

All: 6.636+/-0.047 χ^2/NDF : 31634.7/71

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



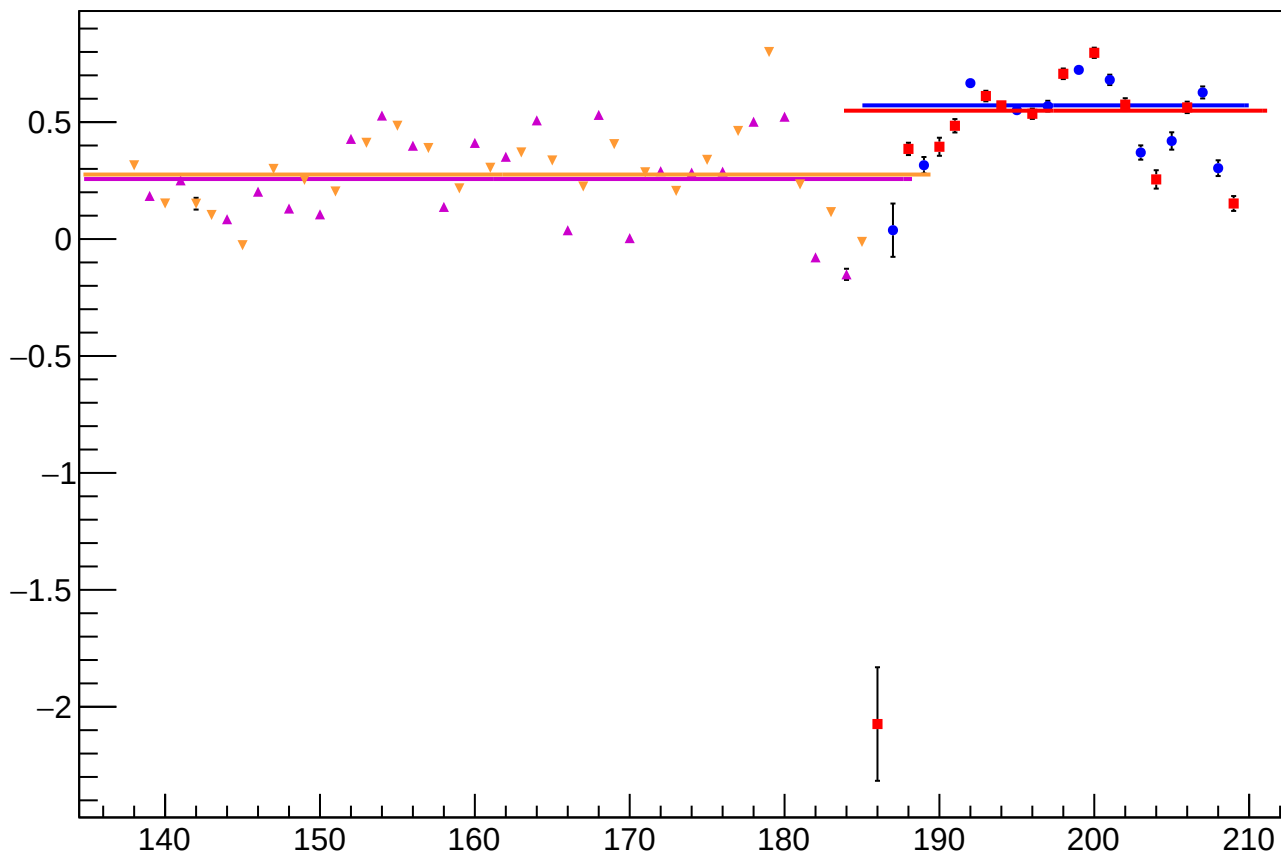
Right In: -29.452 ± 0.238 $\chi^2/\text{NDF}: 564.9/10$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -30.447 ± 0.217 $\chi^2/\text{NDF}: 2007.7/12$
 Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$
 Right: -29.996 ± 0.160 $\chi^2/\text{NDF}: 2582.1/23$

In: -51.531 ± 0.066 $\chi^2/\text{NDF}: 16763.0/33$
 Out: -52.162 ± 0.063 $\chi^2/\text{NDF}: 21440.5/37$

All: -51.858 ± 0.046 $\chi^2/\text{NDF}: 38251.1/71$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.572 ± 0.008 χ^2/NDF : 300.0/10

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.549 ± 0.007 χ^2/NDF : 574.6/12

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

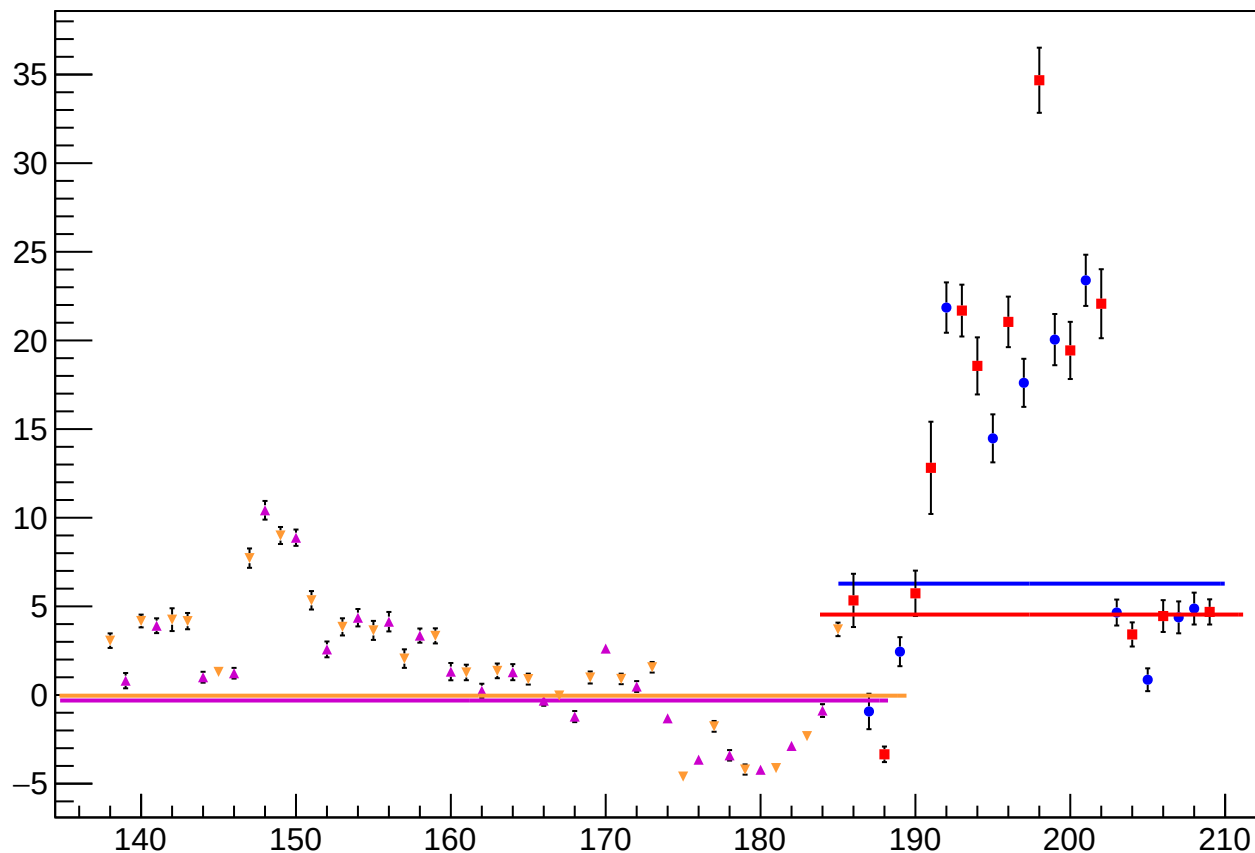
Right: 0.559 ± 0.005 χ^2/NDF : 879.0/23

In: 0.298 ± 0.003 χ^2/NDF : 5280.4/33

Out: 0.317 ± 0.003 χ^2/NDF : 4404.2/37

All: 0.308 ± 0.002 χ^2/NDF : 9706.3/71

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.282 ± 0.291 χ^2/NDF : 614.7/10

Left Out: -0.037 ± 0.066 χ^2/NDF : 2637.7/24

Right Out: 4.538 ± 0.267 χ^2/NDF : 1119.8/12

Left In: -0.310 ± 0.067 χ^2/NDF : 2250.5/22

Left: -0.171 ± 0.047 χ^2/NDF : 4896.5/47

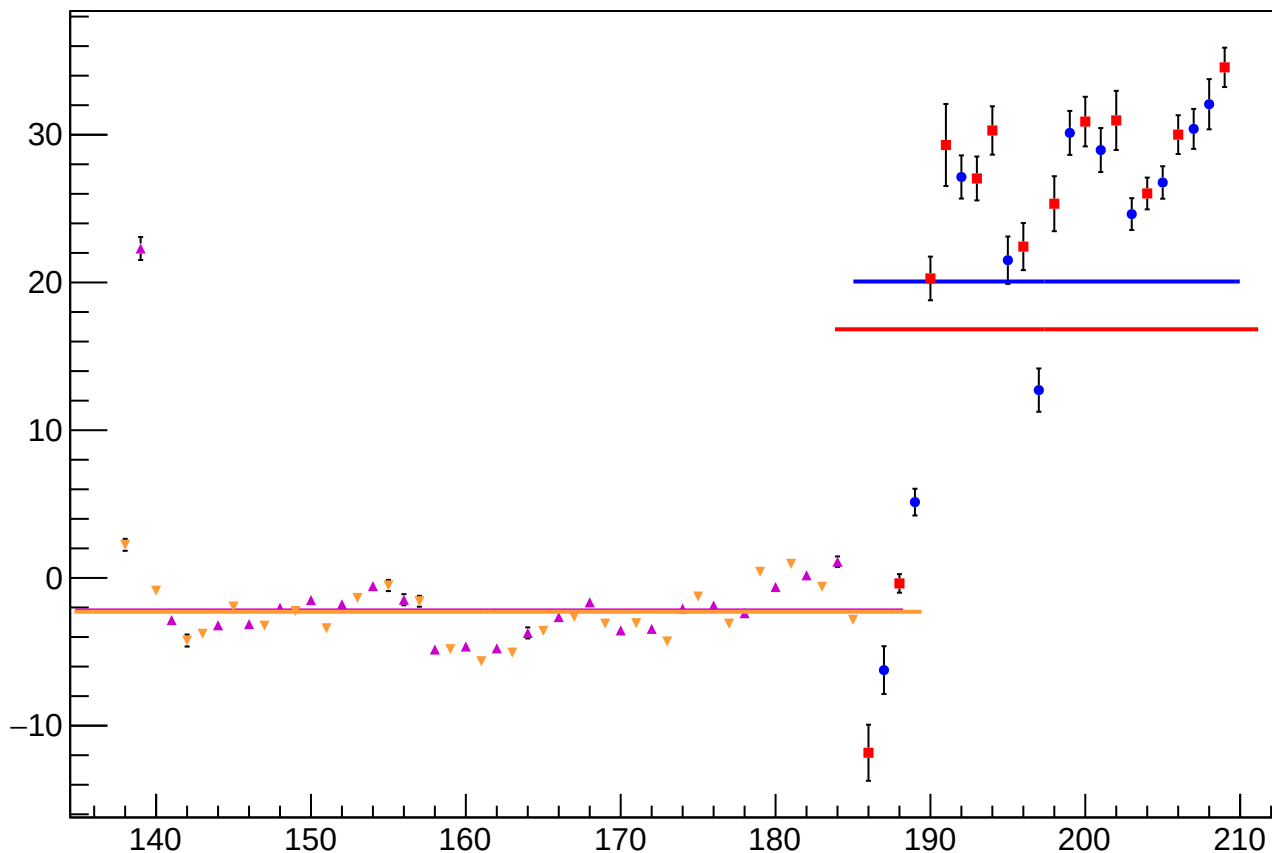
Right: 5.333 ± 0.197 χ^2/NDF : 1754.0/23

In: 0.024 ± 0.066 χ^2/NDF : 3351.4/33

Out: 0.227 ± 0.064 χ^2/NDF : 4034.8/37

All: 0.128 ± 0.046 χ^2/NDF : 7391.1/71

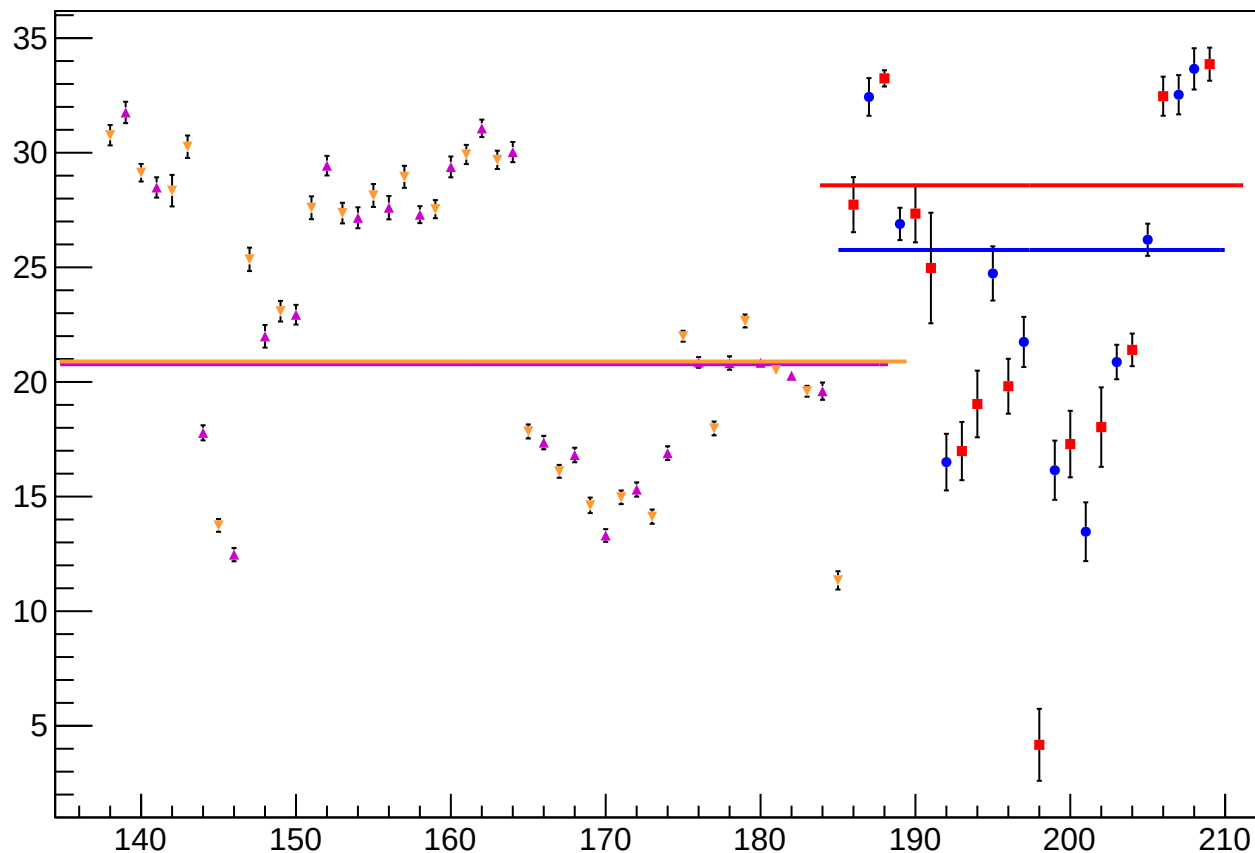
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 20.067 ± 0.395 $\chi^2/\text{NDF}: 830.5/10$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: 16.832 ± 0.365 $\chi^2/\text{NDF}: 1623.5/12$
 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: 18.320 ± 0.268 $\chi^2/\text{NDF}: 2490.2/23$
 In: -1.773 ± 0.055 $\chi^2/\text{NDF}: 5620.0/33$
 Out: -1.875 ± 0.054 $\chi^2/\text{NDF}: 5452.7/37$
 All: -1.825 ± 0.038 $\chi^2/\text{NDF}: 11074.4/71$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.758 $\pm$ 0.274 χ^2 /NDF: 468.5/10

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24

Right Out: 28.579 $\pm$ 0.237 χ^2 /NDF: 873.2/12

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

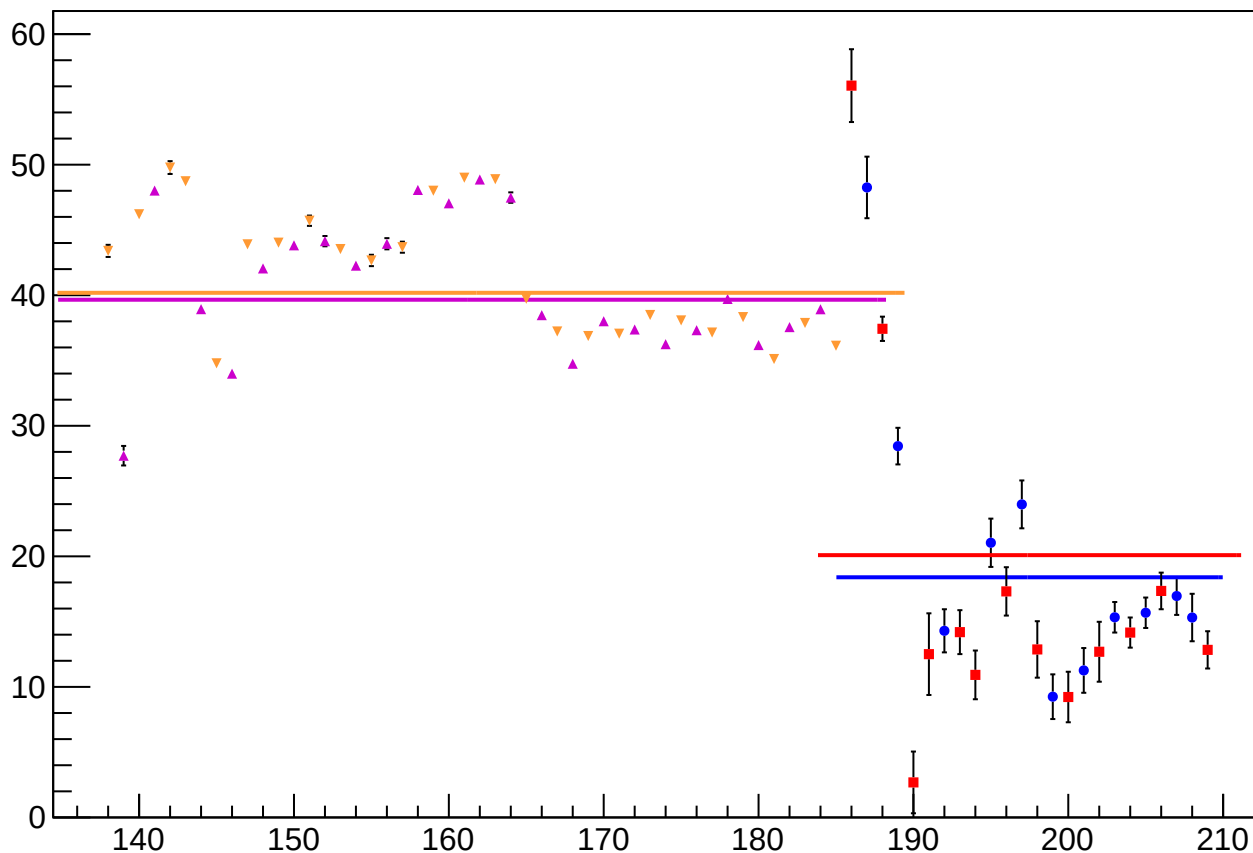
Right: 27.371 $\pm$ 0.179 χ^2 /NDF: 1402.3/23

In: 21.060 $\pm$ 0.066 χ^2 /NDF:6708.0/33

Out: 21.457 $\pm$ 0.064 χ^2 /NDF:8501.0/37

All: 21.262 $\pm$ 0.046 χ^2 /NDF: 15227.8/71

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 18.396 $\pm$ 0.468 χ^2 /NDF: 291.2/10

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF:5932.7/24

Right Out: 20.091 $\pm$ 0.451 χ^2 /NDF: 721.7/12

Left In: 39.655 $\pm$ 0.061 χ^2 /NDF:5298.6/22

Left: 39.925 $\pm$ 0.043 χ^2 /NDF: 11269.2/47

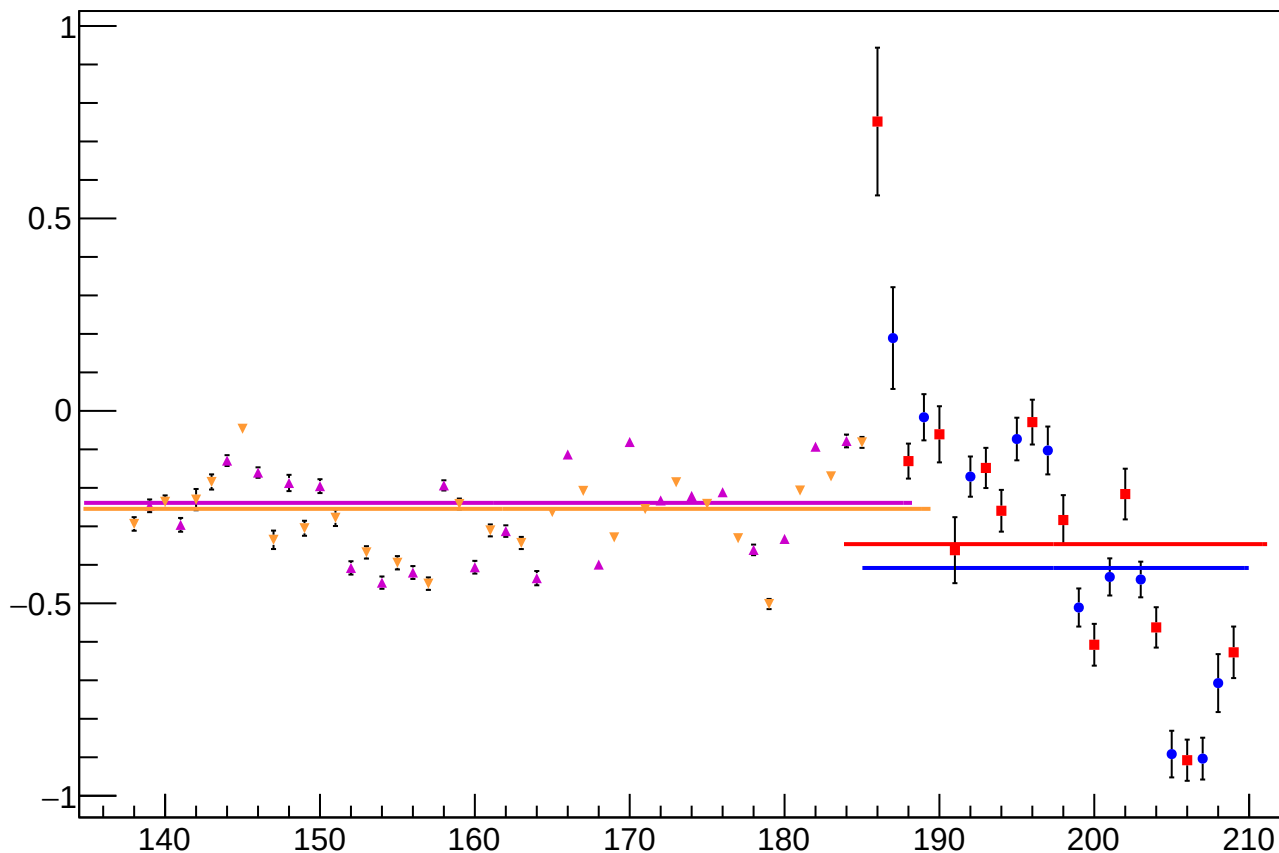
Right: 19.274 $\pm$ 0.325 χ^2 /NDF: 1019.7/23

In: 39.294 $\pm$ 0.061 χ^2 /NDF:7622.2/33

Out: 39.832 $\pm$ 0.060 χ^2 /NDF:8605.1/37

All: 39.568 $\pm$ 0.043 χ^2 /NDF: 16266.9/71

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.408 ± 0.017 χ^2/NDF : 311.9/10

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.346 ± 0.017 χ^2/NDF : 289.9/12

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

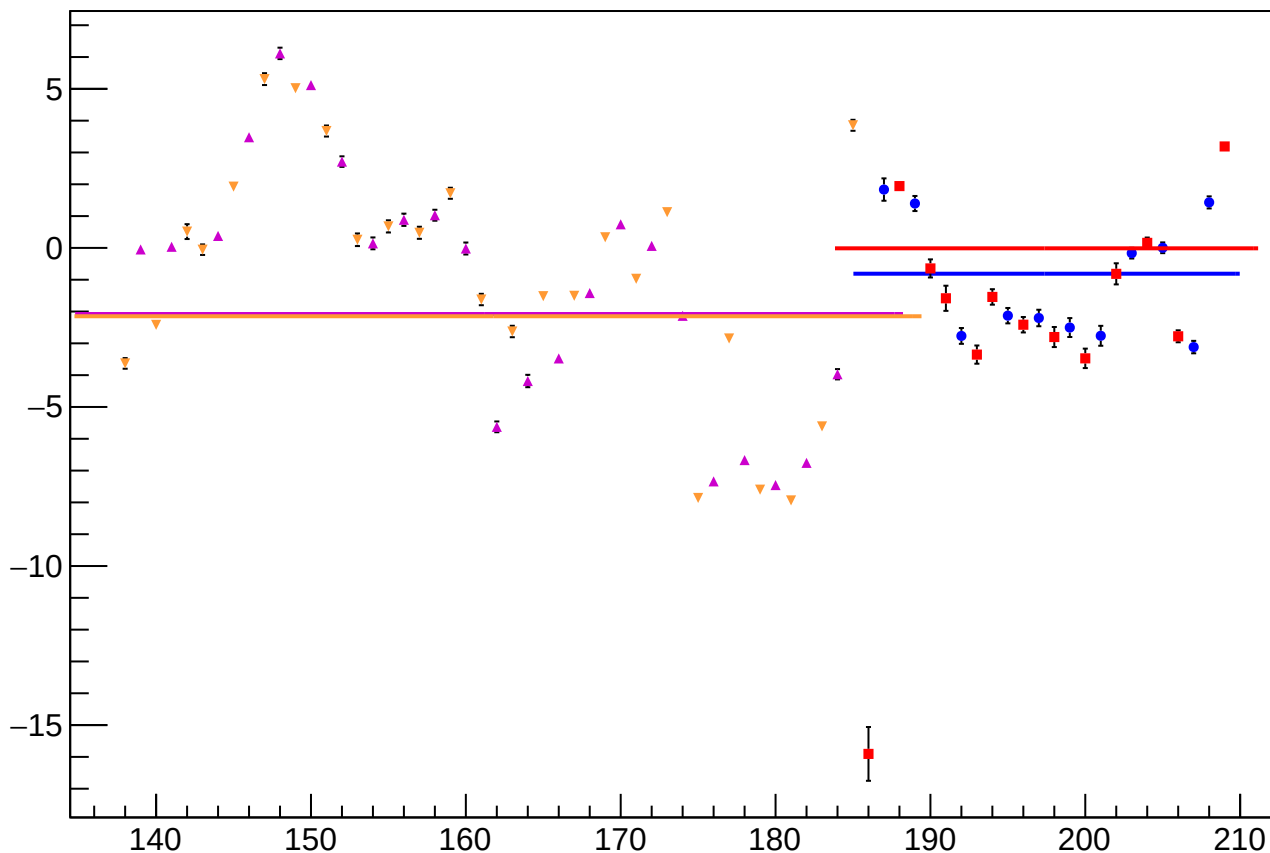
Right: -0.376 ± 0.012 χ^2/NDF : 608.5/23

In: -0.243 ± 0.003 χ^2/NDF : 2156.5/33

Out: -0.257 ± 0.003 χ^2/NDF : 1739.7/37

All: -0.250 ± 0.002 χ^2/NDF : 3908.7/71

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

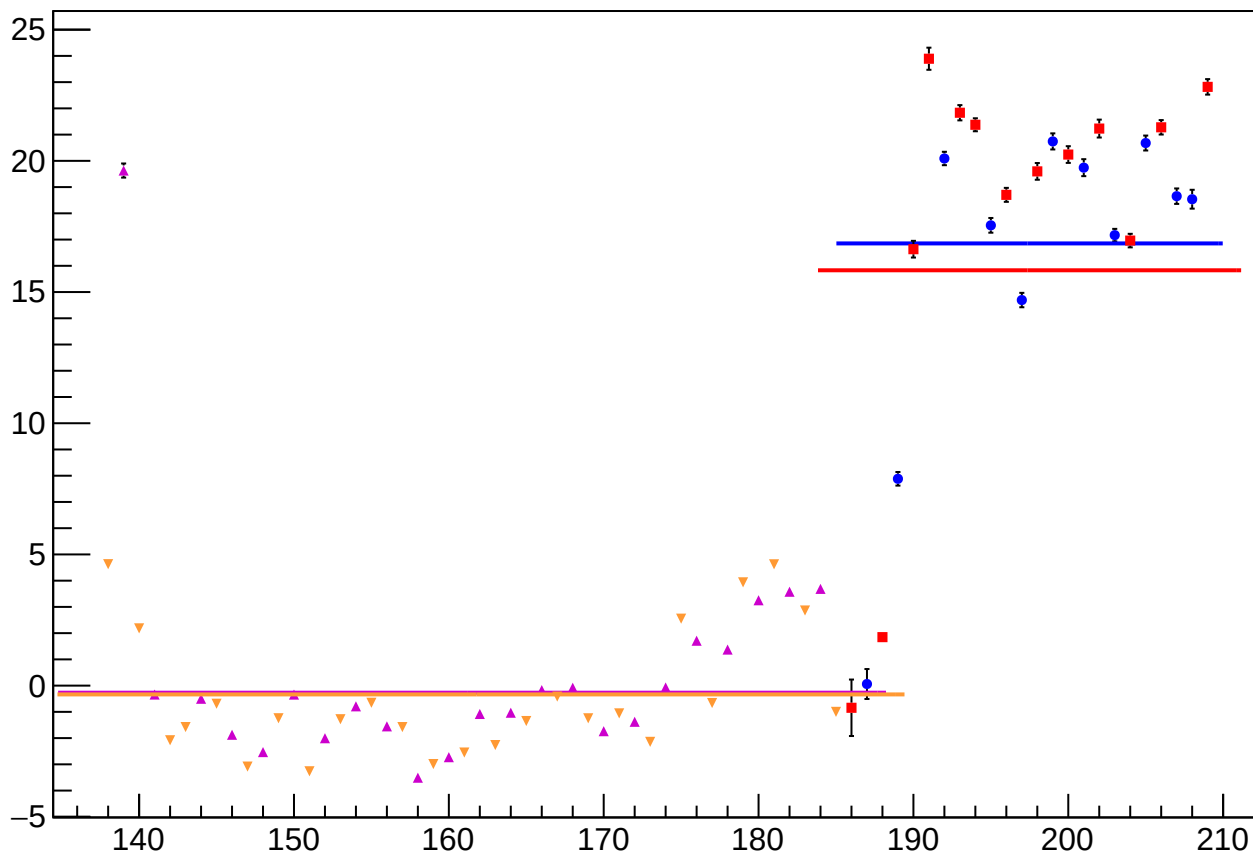


Right In: -0.811 ± 0.068 χ^2/NDF : 650.2/10
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.013 ± 0.059 χ^2/NDF : 1806.9/12
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.361 ± 0.045 χ^2/NDF : 2535.8/23
 In: -1.914 ± 0.024 χ^2/NDF : 24202.3/33
 Out: -1.814 ± 0.024 χ^2/NDF : 27432.5/37

All: -1.862 ± 0.017 χ^2/NDF : 51643.5/71

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.853 ± 0.088 $\chi^2/\text{NDF}: 2774.7/10$

Left Out: -0.335 ± 0.021 $\chi^2/\text{NDF}: 12596.1/24$

Right Out: 15.829 ± 0.078 $\chi^2/\text{NDF}: 10713.2/12$

Left In: -0.269 ± 0.021 $\chi^2/\text{NDF}: 13323.1/22$

Left: -0.303 ± 0.015 $\chi^2/\text{NDF}: 25924.2/47$

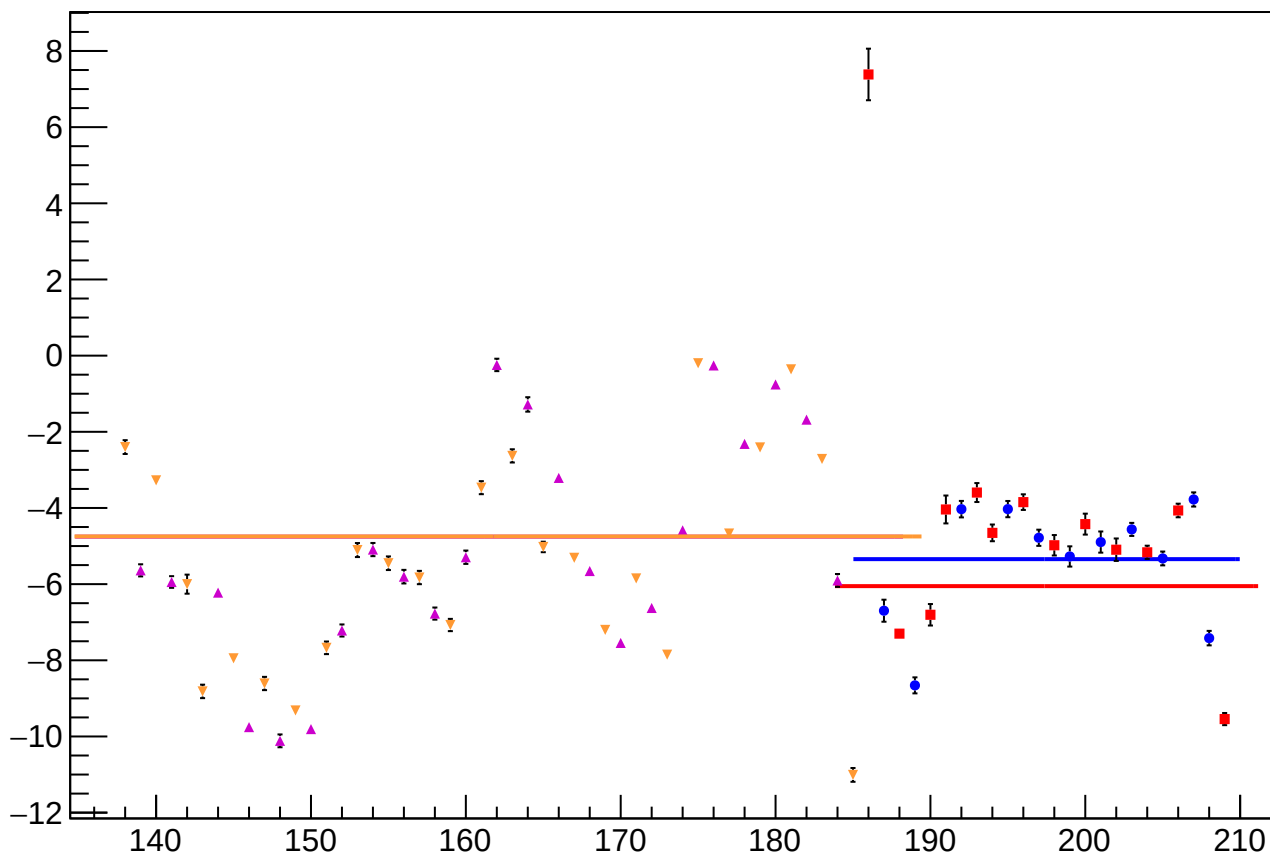
Right: 16.278 ± 0.058 $\chi^2/\text{NDF}: 13563.7/23$

In: 0.645 ± 0.020 $\chi^2/\text{NDF}: 51792.8/33$

Out: 0.721 ± 0.020 $\chi^2/\text{NDF}: 63585.2/37$

All: 0.684 ± 0.014 $\chi^2/\text{NDF}: 115385.1/71$

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.344 ± 0.064 $\chi^2/\text{NDF}: 565.0/10$

Left Out: -4.748 ± 0.026 $\chi^2/\text{NDF}: 13289.8/24$

Right Out: -6.052 ± 0.053 $\chi^2/\text{NDF}: 1569.7/12$

Left In: -4.753 ± 0.026 $\chi^2/\text{NDF}: 14119.2/22$

Left: -4.751 ± 0.018 $\chi^2/\text{NDF}: 27409.0/47$

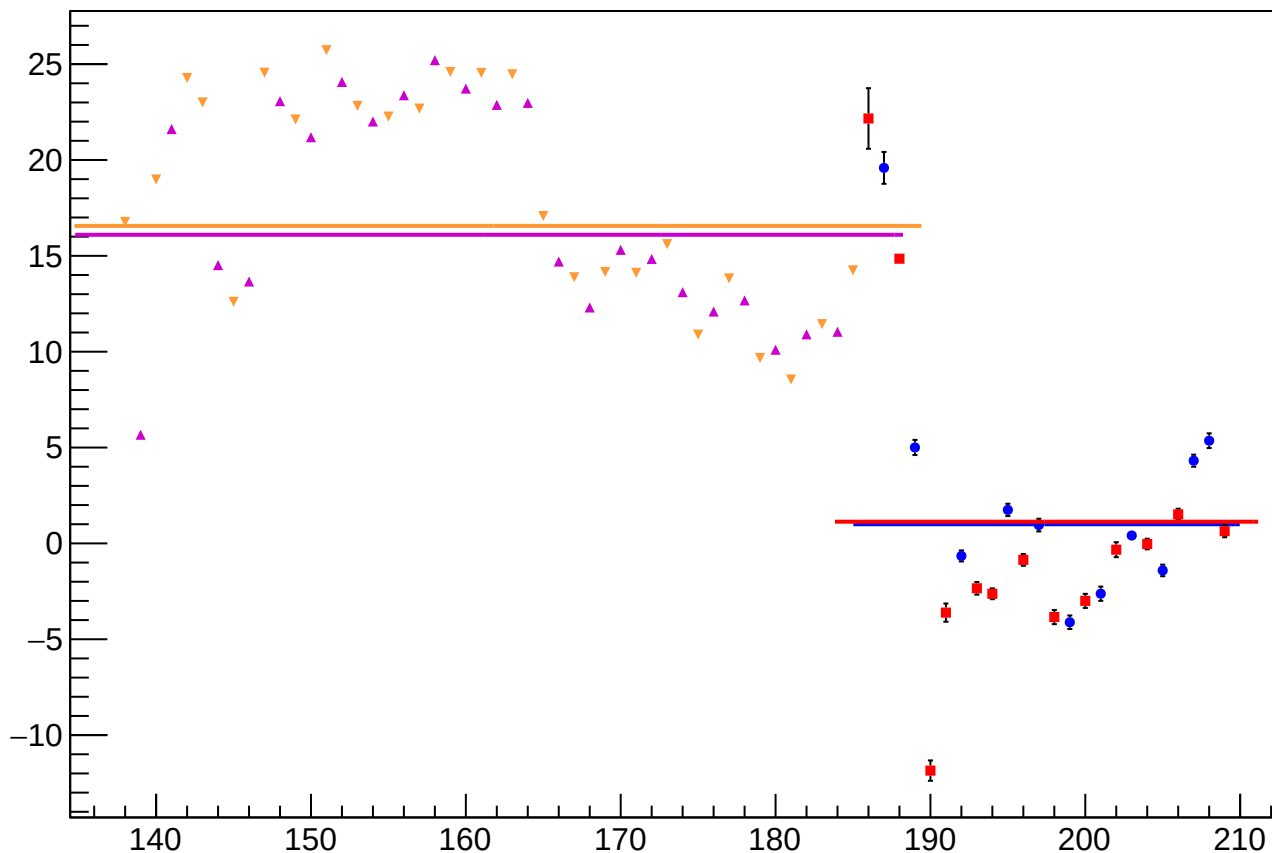
Right: -5.759 ± 0.041 $\chi^2/\text{NDF}: 2207.7/23$

In: -4.839 ± 0.024 $\chi^2/\text{NDF}: 14758.1/33$

Out: -4.996 ± 0.023 $\chi^2/\text{NDF}: 15343.8/37$

All: -4.920 ± 0.017 $\chi^2/\text{NDF}: 30123.8/71$

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.000 ± 0.102 $\chi^2/\text{NDF}: 1253.9/10$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 1.131 ± 0.093 $\chi^2/\text{NDF}: 4985.7/12$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

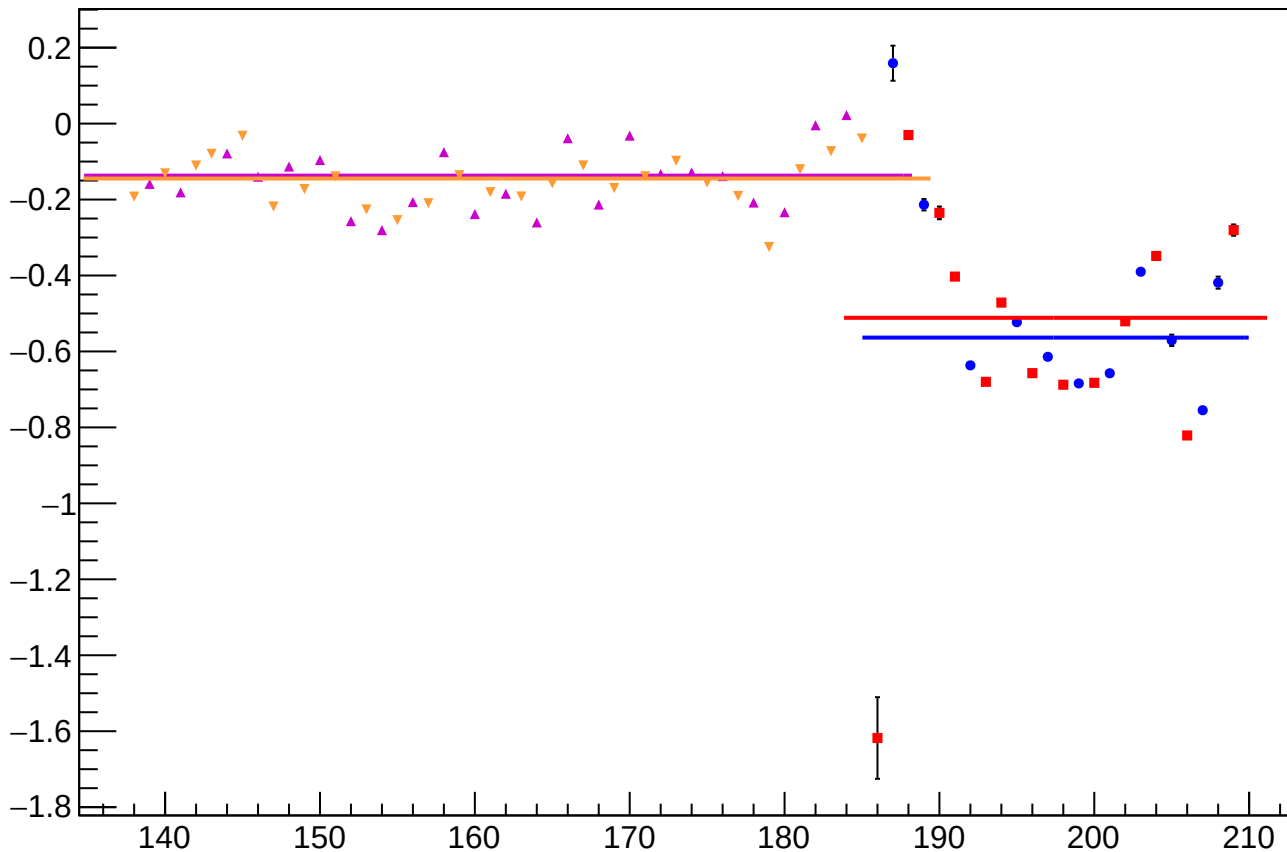
Right: 1.071 ± 0.069 $\chi^2/\text{NDF}: 6240.5/23$

In: 15.331 ± 0.023 $\chi^2/\text{NDF}: 64467.9/33$

Out: 15.670 ± 0.022 $\chi^2/\text{NDF}: 84559.2/37$

All: 15.504 ± 0.016 $\chi^2/\text{NDF}: 149138.4/71$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.564 ± 0.003 χ^2/NDF : 1773.4/10

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.511 ± 0.003 χ^2/NDF : 4825.5/12

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

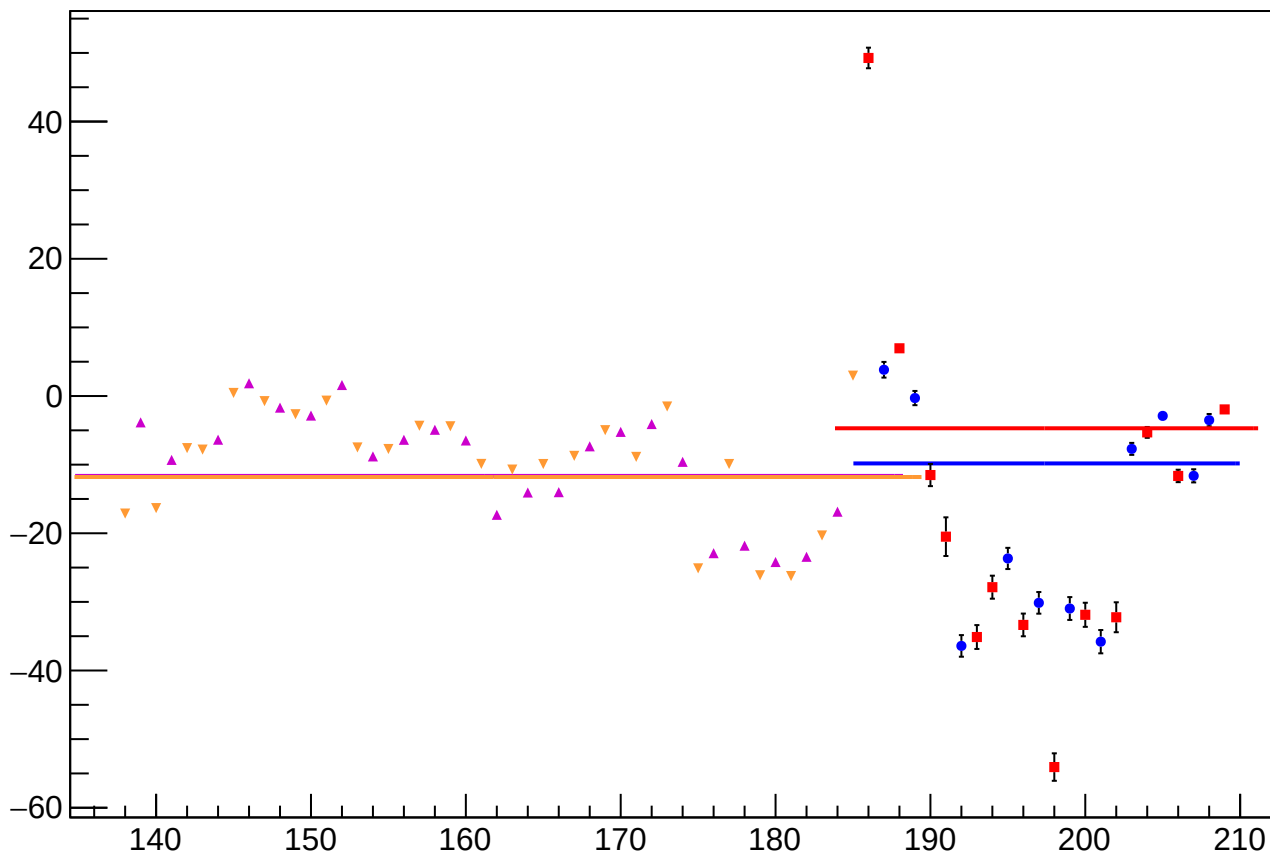
Right: -0.535 ± 0.002 χ^2/NDF : 6720.6/23

In: -0.174 ± 0.001 χ^2/NDF : 20755.4/33

Out: -0.181 ± 0.001 χ^2/NDF : 20570.6/37

All: -0.177 ± 0.001 χ^2/NDF : 41351.8/71

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.821 ± 0.330 χ^2/NDF : 1304.6/10
 Left Out: -11.801 ± 0.070 χ^2/NDF : 17308.2/24
 Right Out: -4.701 ± 0.302 χ^2/NDF : 3692.7/12
 Left In: -11.642 ± 0.072 χ^2/NDF : 14121.2/22

Left: -11.723 ± 0.050 χ^2/NDF : 31432.0/47

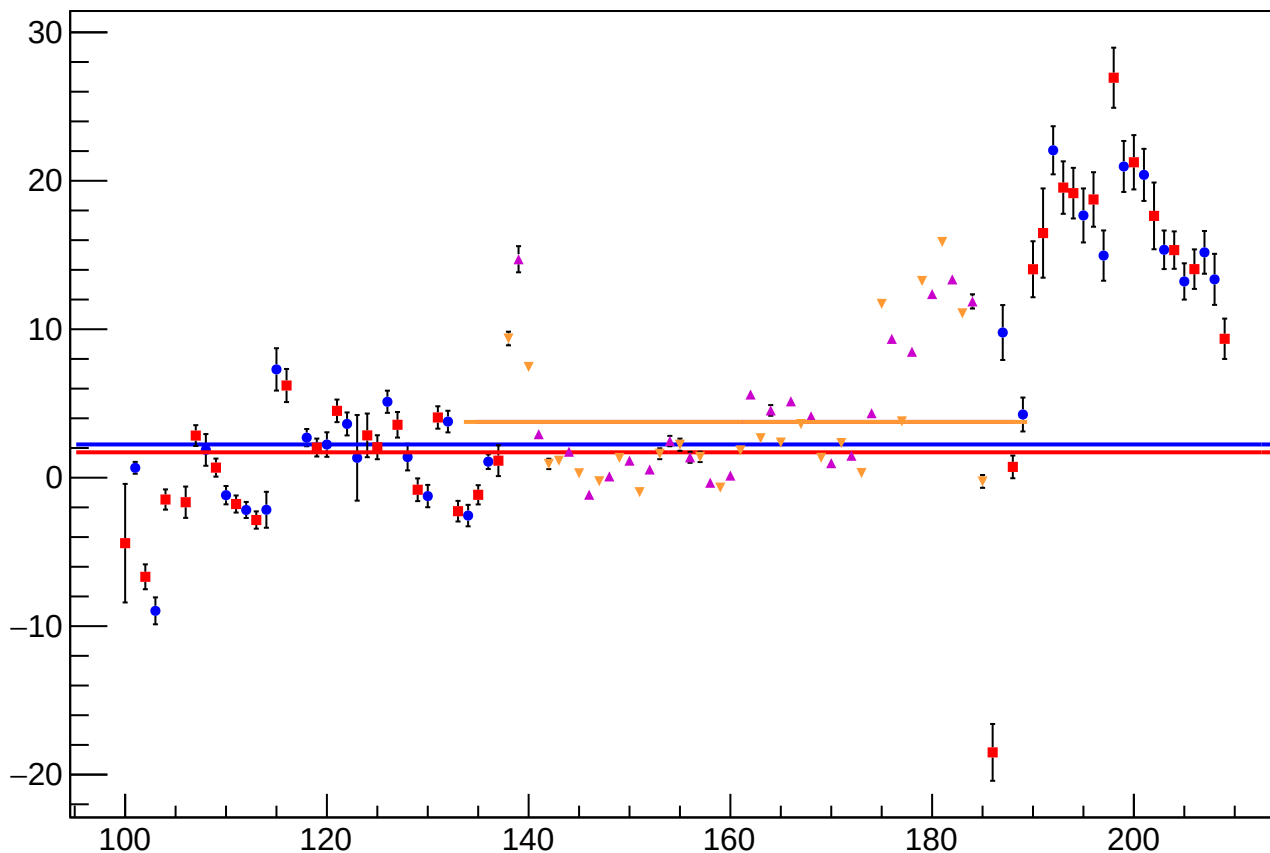
Right: -7.035 ± 0.223 χ^2/NDF : 5128.6/23

In: -11.560 ± 0.070 χ^2/NDF : 15454.9/33

Out: -11.436 ± 0.068 χ^2/NDF : 21526.0/37

All: -11.497 ± 0.049 χ^2/NDF : 36982.6/71

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.239 ± 0.160 $\chi^2/\text{NDF}: 1214.6/27$

Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$

Right Out: 1.710 ± 0.161 $\chi^2/\text{NDF}: 1372.8/31$

Left In: 3.757 ± 0.057 $\chi^2/\text{NDF}: 5629.4/22$

Left: 3.757 ± 0.040 $\chi^2/\text{NDF}: 13080.0/47$

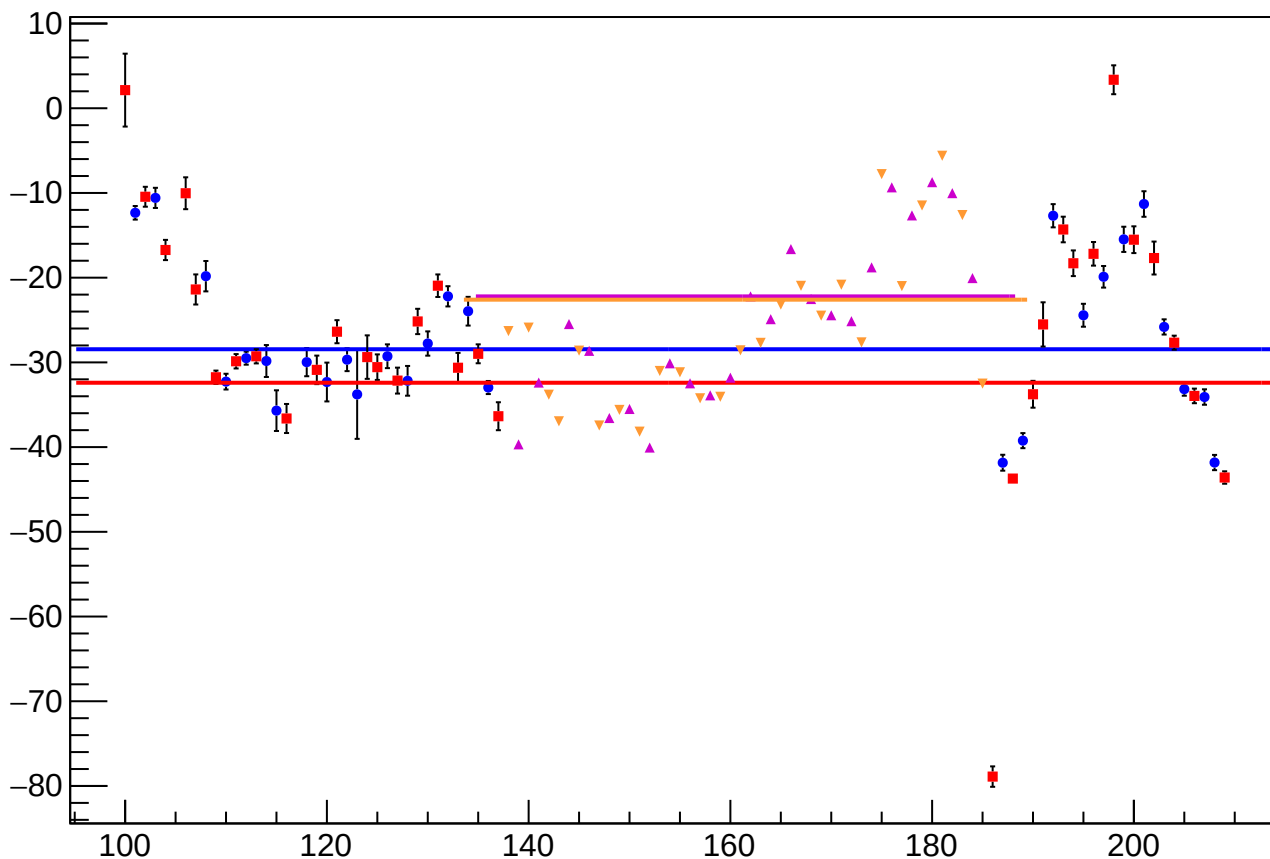
Right: 1.977 ± 0.113 $\chi^2/\text{NDF}: 2592.8/59$

In: 3.588 ± 0.053 $\chi^2/\text{NDF}: 6924.3/50$

Out: 3.539 ± 0.052 $\chi^2/\text{NDF}: 8967.8/56$

All: 3.563 ± 0.037 $\chi^2/\text{NDF}: 15892.4/107$

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -28.448 ± 0.216 $\chi^2/\text{NDF}: 1805.0/27$

Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF}: 19933.4/24$

Right Out: -32.403 ± 0.201 $\chi^2/\text{NDF}: 4337.3/31$

Left In: -22.209 ± 0.072 $\chi^2/\text{NDF}: 17627.4/22$

Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

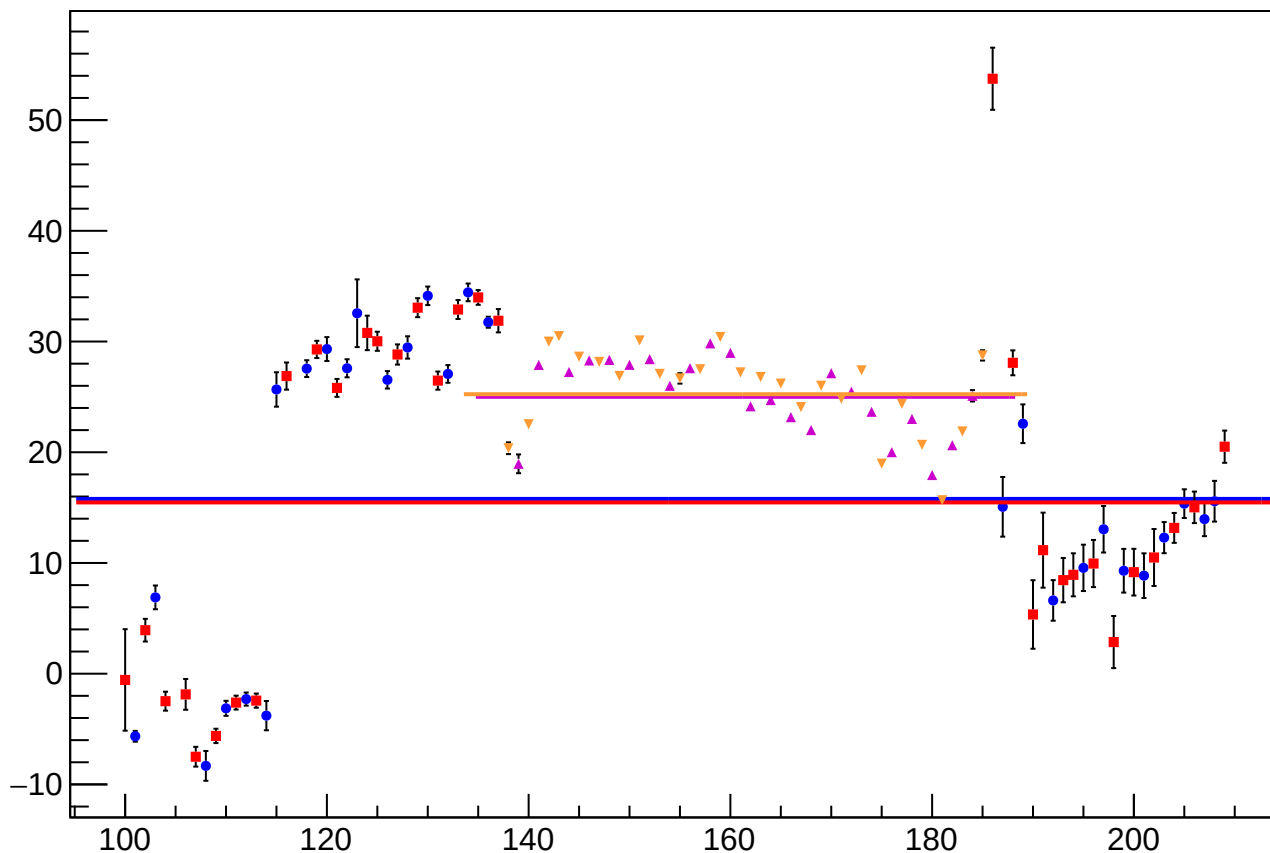
Right: -30.576 ± 0.147 $\chi^2/\text{NDF}: 6322.1/59$

In: -22.825 ± 0.068 $\chi^2/\text{NDF}: 20181.6/50$

Out: -23.682 ± 0.067 $\chi^2/\text{NDF}: 26397.5/56$

All: -23.261 ± 0.048 $\chi^2/\text{NDF}: 46660.2/107$

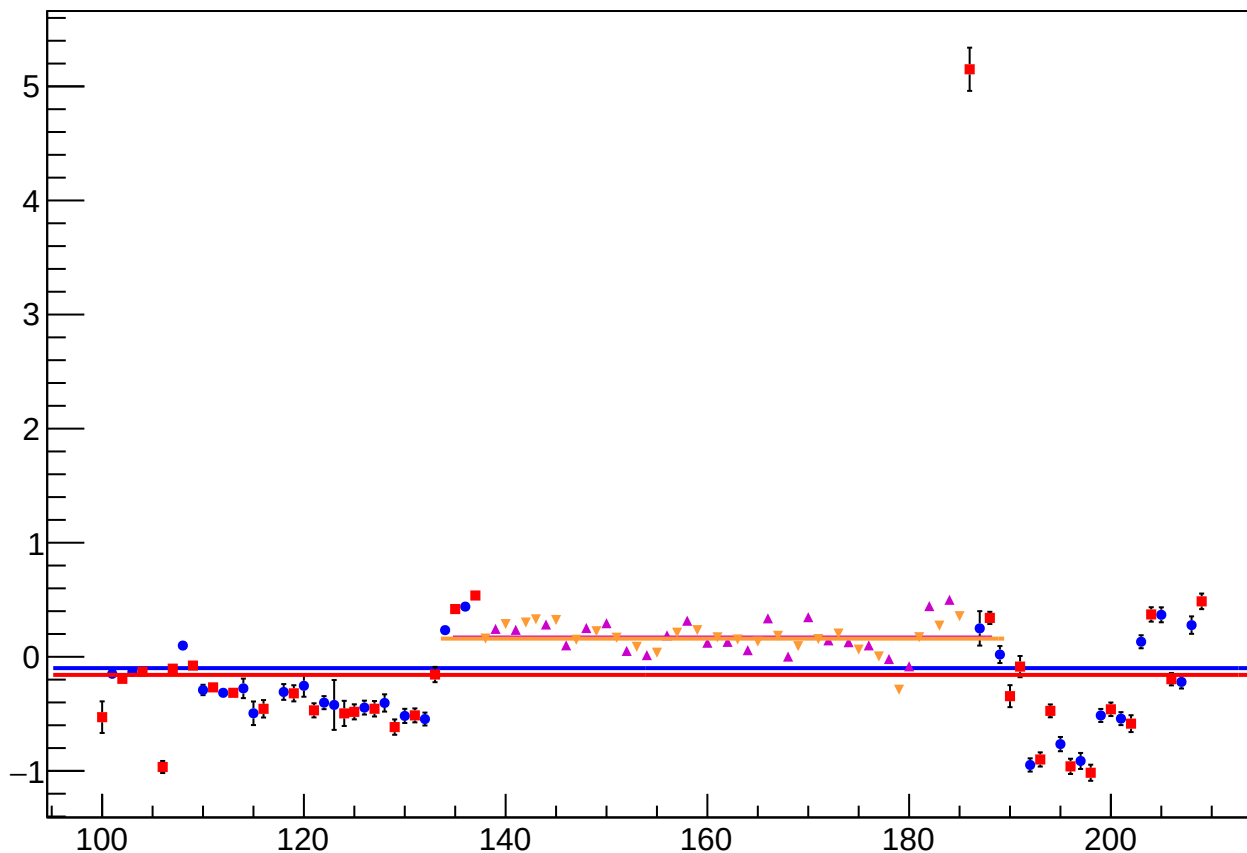
reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.786 $\pm$ 0.181 χ^2 /NDF: 7626.1/27
 Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24
 Right Out: 15.469 $\pm$ 0.184 χ^2 /NDF: 7673.0/31
 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: 15.630 $\pm$ 0.129 χ^2 /NDF: 15300.6/59
 In: 23.988 $\pm$ 0.060 χ^2 /NDF:12658.9/50
 Out: 24.226 $\pm$ 0.059 χ^2 /NDF:13991.6/56
 All: 24.109 $\pm$ 0.042 χ^2 /NDF: 26658.4/107

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.099 ± 0.009 $\chi^2/\text{NDF}: 1729.9/27$

Left Out: 0.159 ± 0.003 $\chi^2/\text{NDF}: 1864.2/24$

Right Out: -0.159 ± 0.009 $\chi^2/\text{NDF}: 2727.5/31$

Left In: 0.169 ± 0.003 $\chi^2/\text{NDF}: 2418.8/22$

Left: 0.164 ± 0.002 $\chi^2/\text{NDF}: 4288.4/47$

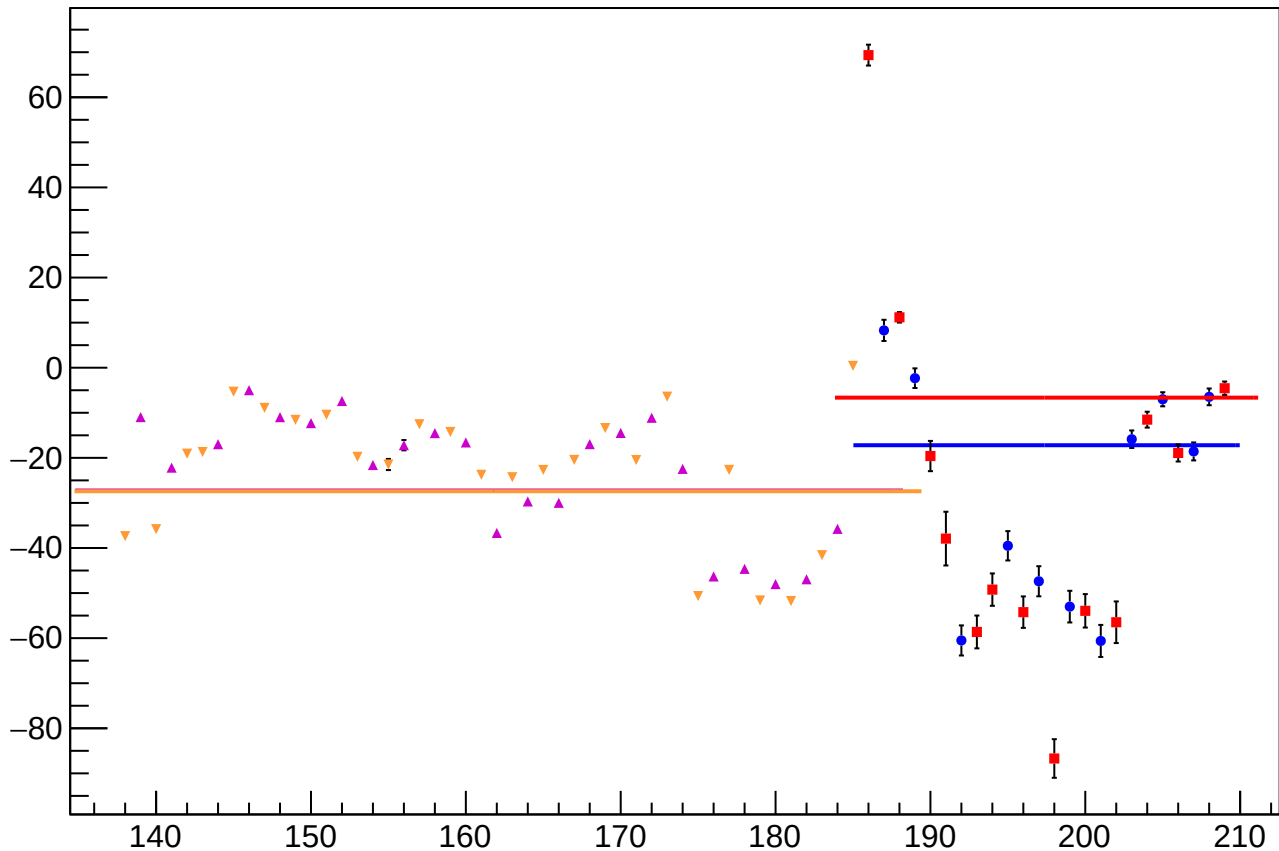
Right: -0.129 ± 0.006 $\chi^2/\text{NDF}: 4478.7/59$

In: 0.144 ± 0.003 $\chi^2/\text{NDF}: 4928.9/50$

Out: 0.130 ± 0.003 $\chi^2/\text{NDF}: 5708.6/56$

All: 0.137 ± 0.002 $\chi^2/\text{NDF}: 10649.8/107$

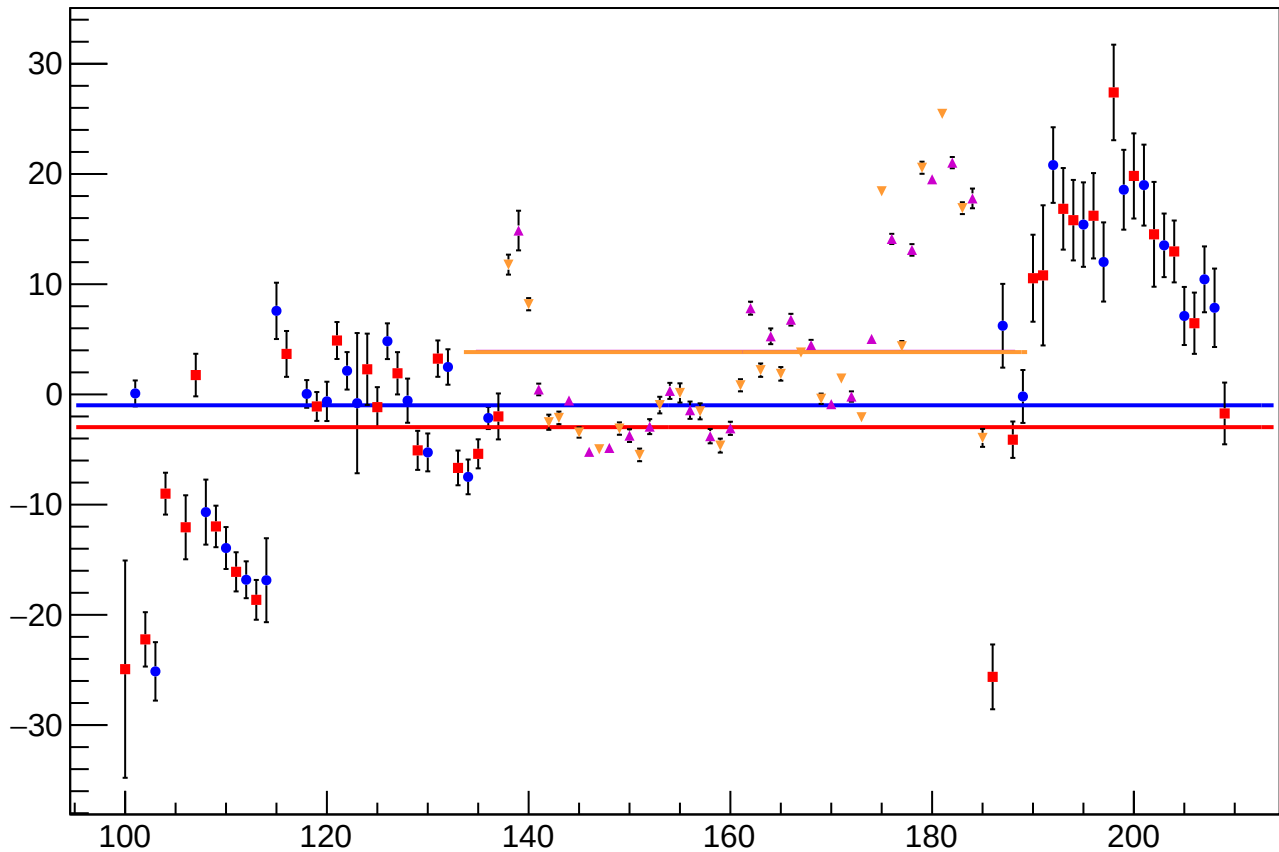
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.199 ± 0.700 $\chi^2/\text{NDF}: 791.3/10$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -6.640 ± 0.632 $\chi^2/\text{NDF}: 2563.6/12$
 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: -11.383 ± 0.469 $\chi^2/\text{NDF}: 3480.3/23$
 In: -26.860 ± 0.137 $\chi^2/\text{NDF}: 12294.7/33$
 Out: -26.478 ± 0.134 $\chi^2/\text{NDF}: 18445.8/37$
 All: -26.665 ± 0.096 $\chi^2/\text{NDF}: 30744.4/71$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.987 ± 0.378 $\chi^2/\text{NDF}: 495.1/27$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -2.970 ± 0.383 $\chi^2/\text{NDF}: 611.0/31$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

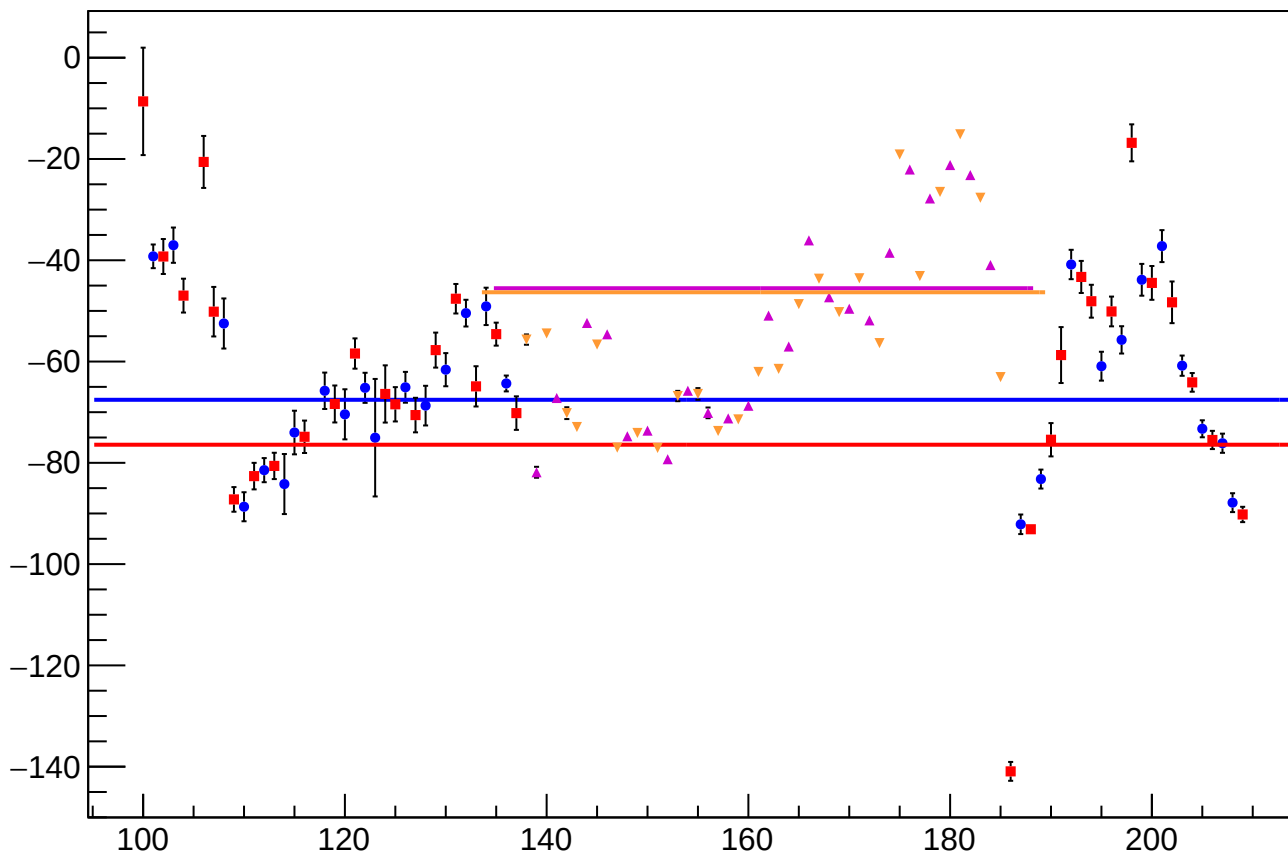
Right: -1.966 ± 0.269 $\chi^2/\text{NDF}: 1119.6/59$

In: 3.480 ± 0.107 $\chi^2/\text{NDF}: 6070.4/50$

Out: 3.329 ± 0.105 $\chi^2/\text{NDF}: 7842.6/56$

All: 3.404 ± 0.075 $\chi^2/\text{NDF}: 13914.0/107$

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.552 $\pm$ 0.492 χ^2 /NDF: 1061.4/27

Left Out: -46.318 $\pm$ 0.138 χ^2 /NDF:20134.6/24

Right Out: -76.424 $\pm$ 0.452 χ^2 /NDF: 3019.4/31

Left In: -45.522 $\pm$ 0.140 χ^2 /NDF:17525.4/22

Left: -45.925 $\pm$ 0.098 χ^2 /NDF: 37676.5/47

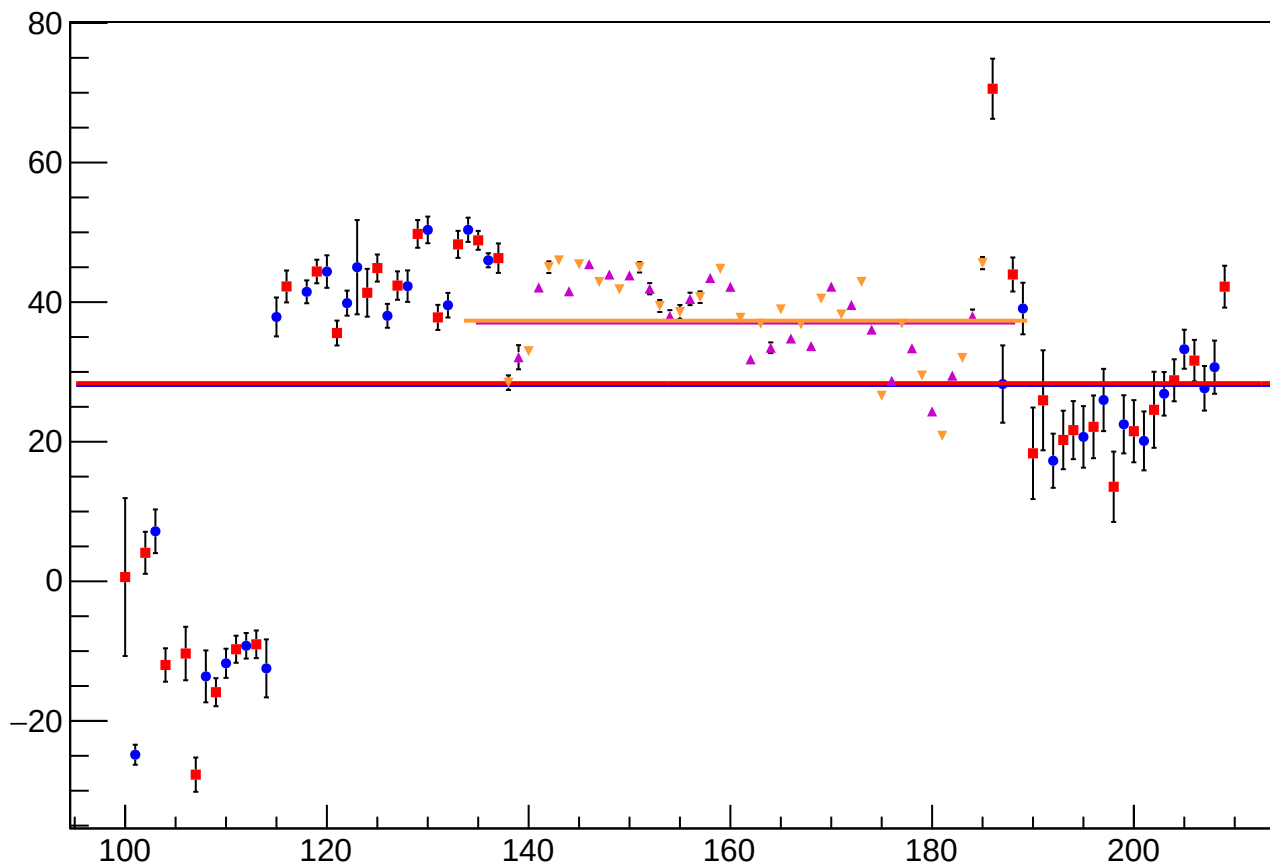
Right: -72.365 $\pm$ 0.333 χ^2 /NDF: 4257.0/59

In: -47.164 $\pm$ 0.134 χ^2 /NDF:20439.3/50

Out: -48.881 $\pm$ 0.132 χ^2 /NDF:27209.5/56

All: -48.038 $\pm$ 0.094 χ^2 /NDF: 47731.9/107

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.135 $\pm$ 0.427 χ^2 /NDF: 3340.0/27

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.396 $\pm$ 0.437 χ^2 /NDF: 3217.2/31

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

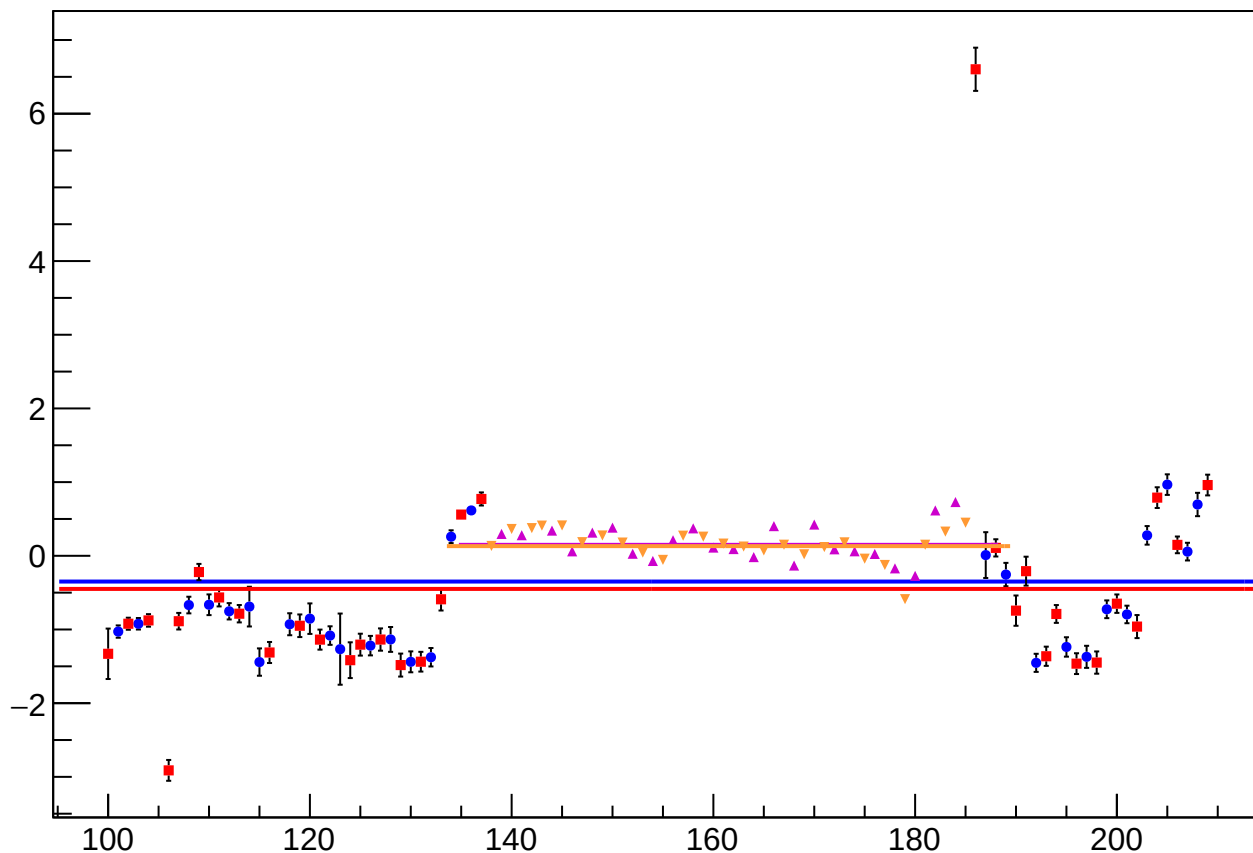
Right: 28.263 $\pm$ 0.305 χ^2 /NDF: 6557.4/59

In: 36.365 $\pm$ 0.120 χ^2 /NDF:6141.5/50

Out: 36.685 $\pm$ 0.118 χ^2 /NDF:6754.4/56

All: 36.528 $\pm$ 0.084 χ^2 /NDF: 12899.4/107

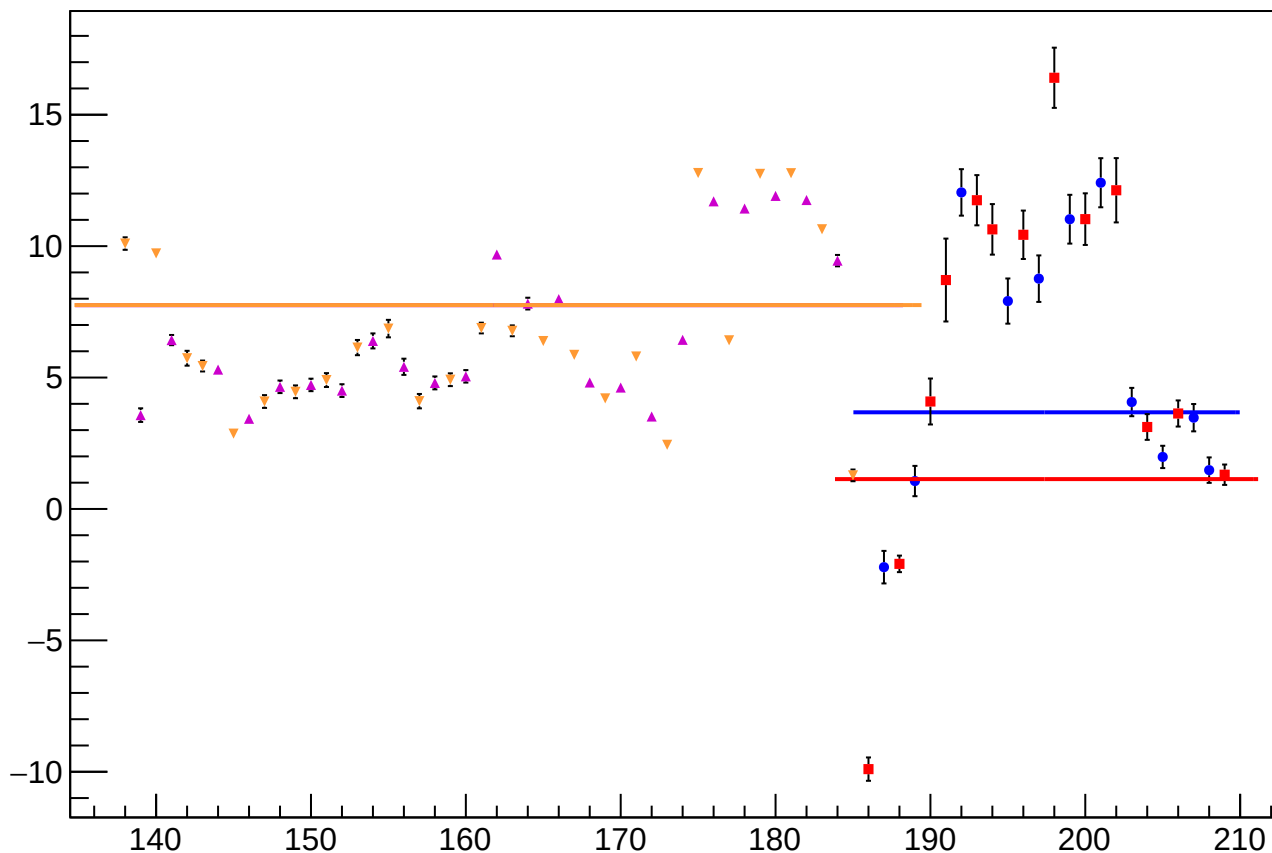
reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.349 ± 0.021 $\chi^2/\text{NDF}: 1378.0/27$
 Left Out: 0.131 ± 0.006 $\chi^2/\text{NDF}: 1426.3/24$
 Right Out: -0.449 ± 0.022 $\chi^2/\text{NDF}: 2141.8/31$
 Left In: 0.149 ± 0.006 $\chi^2/\text{NDF}: 1803.6/22$

Left: 0.140 ± 0.004 $\chi^2/\text{NDF}: 3234.6/47$
 Right: -0.399 ± 0.015 $\chi^2/\text{NDF}: 3530.6/59$
 In: 0.115 ± 0.006 $\chi^2/\text{NDF}: 3687.3/50$
 Out: 0.094 ± 0.005 $\chi^2/\text{NDF}: 4244.9/56$
 All: 0.105 ± 0.004 $\chi^2/\text{NDF}: 7939.5/107$

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.678 ± 0.186 $\chi^2/\text{NDF}: 445.5/10$

Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$

Right Out: 1.136 ± 0.163 $\chi^2/\text{NDF}: 1481.1/12$

Left In: 7.753 ± 0.035 $\chi^2/\text{NDF}: 8345.2/22$

Left: 7.755 ± 0.025 $\chi^2/\text{NDF}: 20073.8/47$

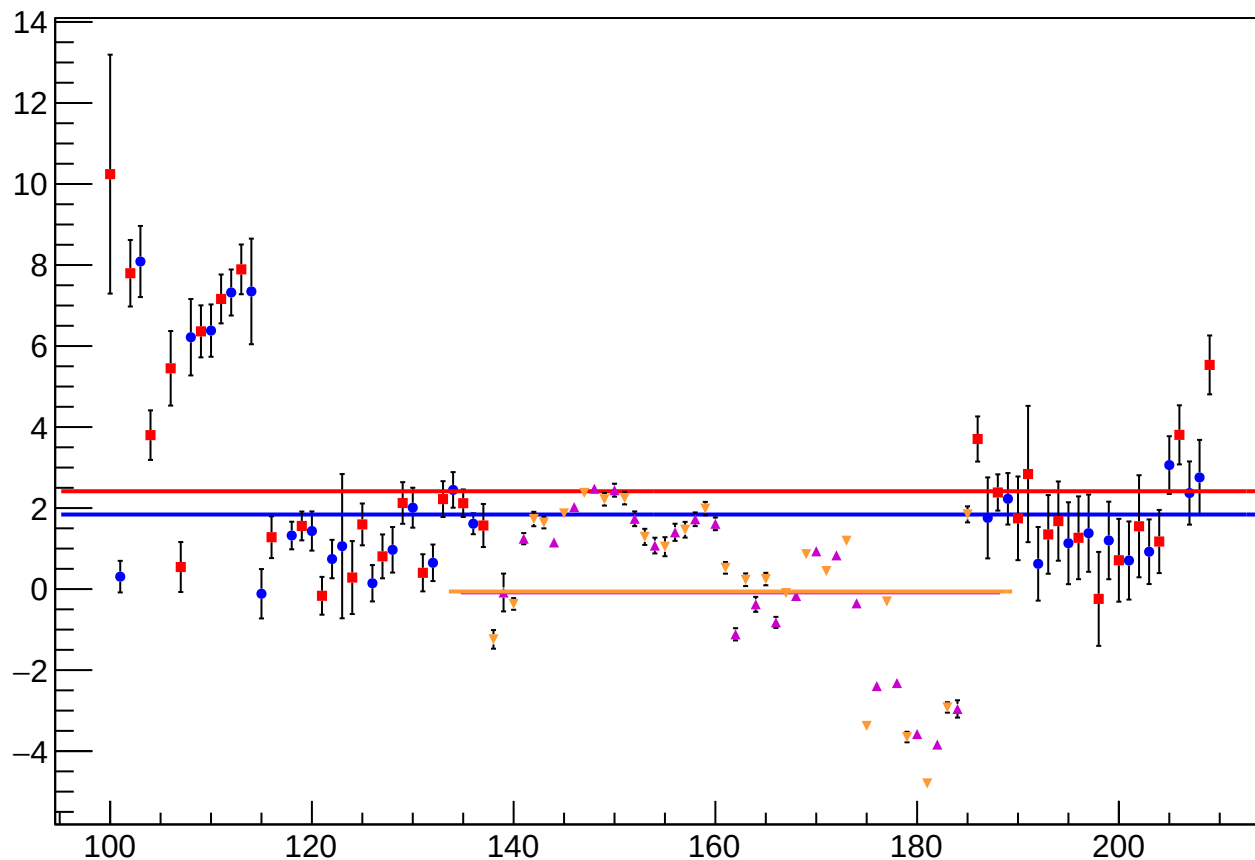
Right: 2.238 ± 0.123 $\chi^2/\text{NDF}: 2031.9/23$

In: 7.613 ± 0.034 $\chi^2/\text{NDF}: 9252.4/33$

Out: 7.476 ± 0.034 $\chi^2/\text{NDF}: 14787.6/37$

All: 7.543 ± 0.024 $\chi^2/\text{NDF}: 24048.1/71$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.841 ± 0.107 $\chi^2/\text{NDF}: 303.7/27$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.415 ± 0.107 $\chi^2/\text{NDF}: 377.6/31$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

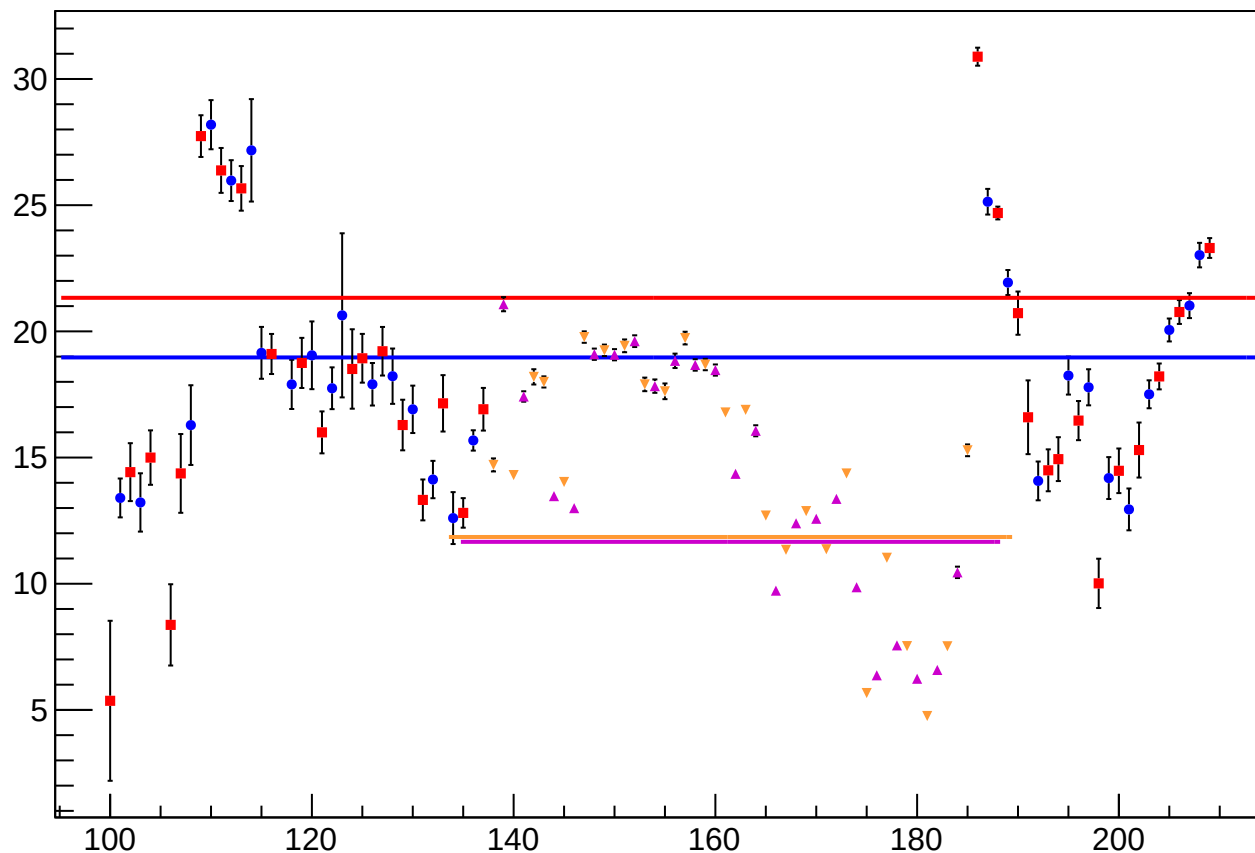
Right: 2.126 ± 0.076 $\chi^2/\text{NDF}: 695.7/59$

In: 0.046 ± 0.027 $\chi^2/\text{NDF}: 5586.5/50$

Out: 0.096 ± 0.027 $\chi^2/\text{NDF}: 6944.1/56$

All: 0.071 ± 0.019 $\chi^2/\text{NDF}: 12532.2/107$

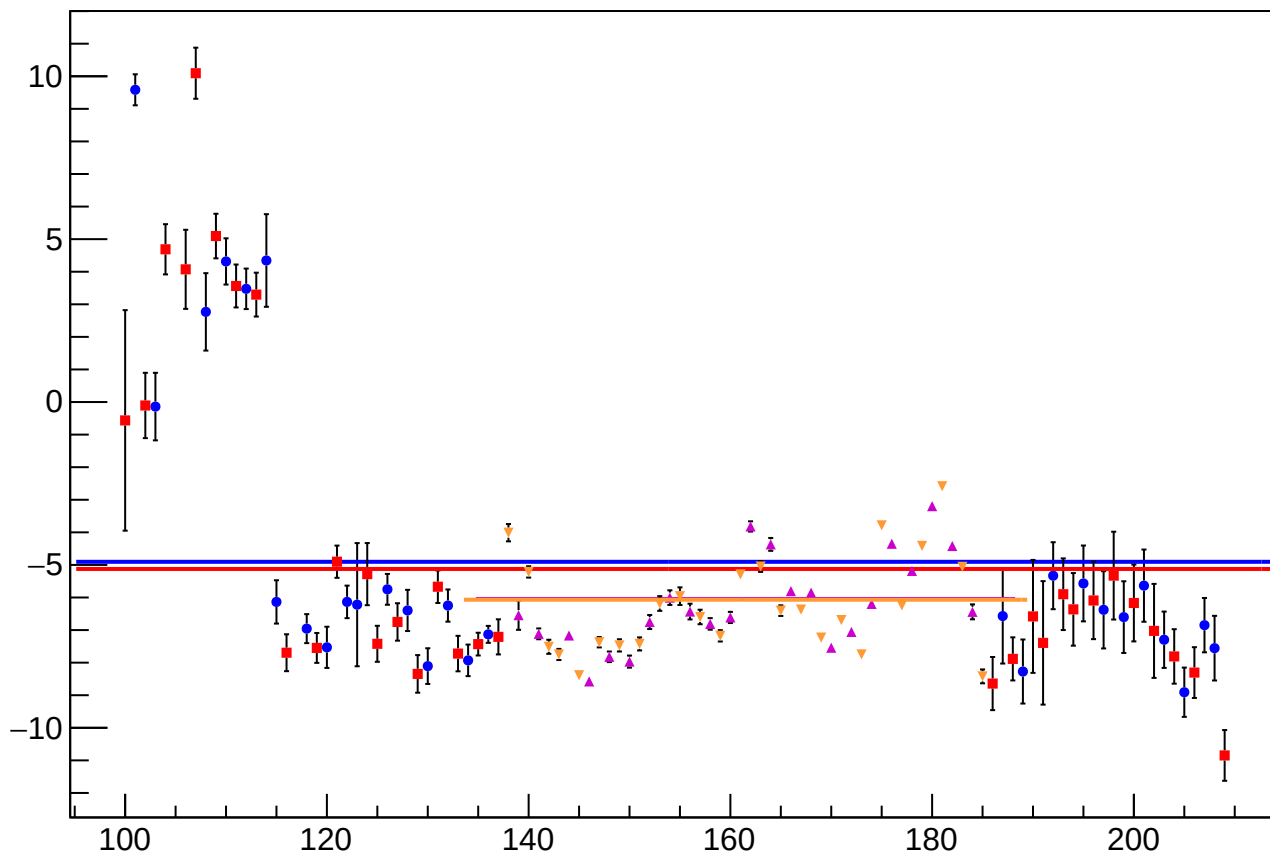
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.967 ± 0.135 $\chi^2/\text{NDF}: 831.6/27$
 Left Out: 11.853 ± 0.035 $\chi^2/\text{NDF}: 19149.4/24$
 Right Out: 21.330 ± 0.121 $\chi^2/\text{NDF}: 2095.8/31$
 Left In: 11.660 ± 0.035 $\chi^2/\text{NDF}: 16710.2/22$

Left: 11.758 ± 0.025 $\chi^2/\text{NDF}: 35874.9/47$
 Right: 20.279 ± 0.090 $\chi^2/\text{NDF}: 3097.0/59$
 In: 12.124 ± 0.034 $\chi^2/\text{NDF}: 20279.7/50$
 Out: 12.573 ± 0.033 $\chi^2/\text{NDF}: 26917.1/56$
 All: 12.353 ± 0.024 $\chi^2/\text{NDF}: 47285.4/107$

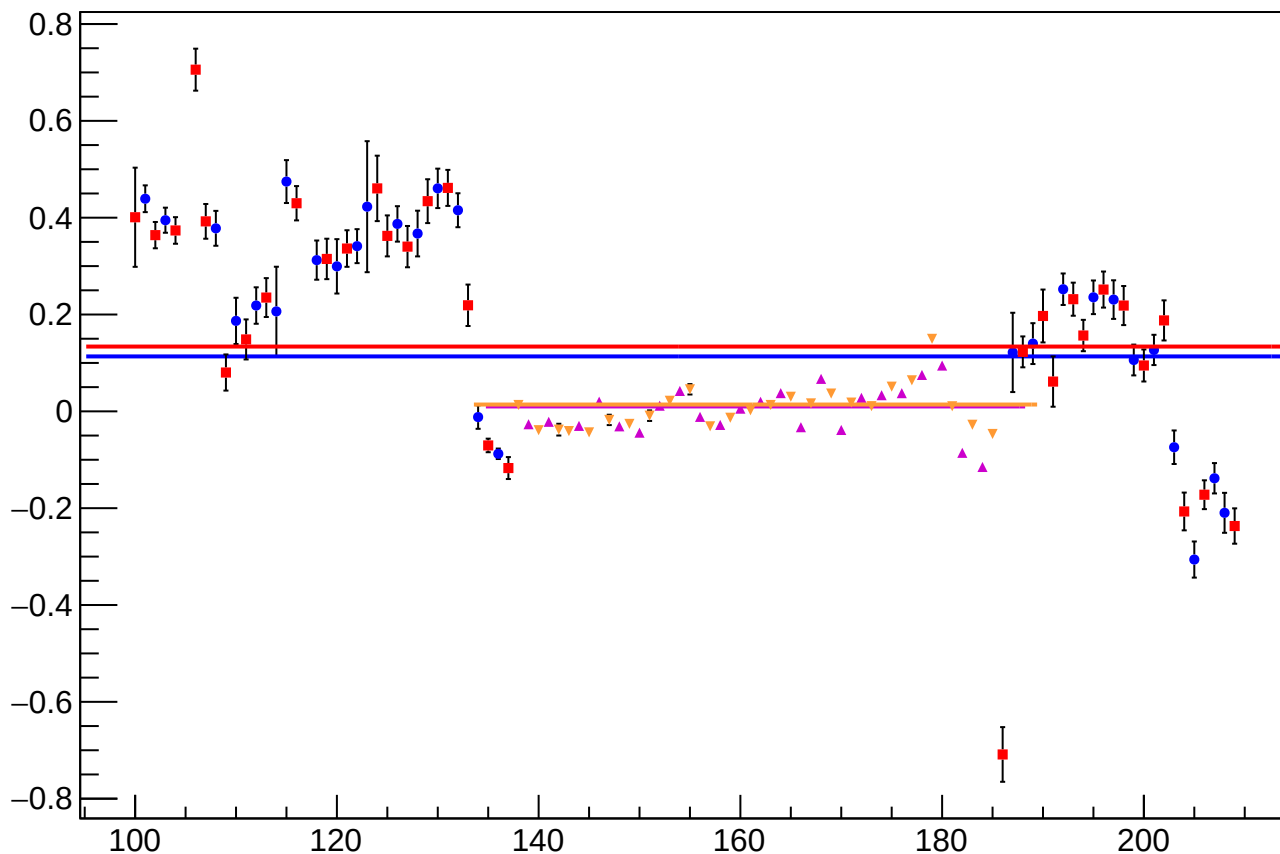
reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.904 ± 0.120 $\chi^2/\text{NDF}: 1658.7/27$
 Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$
 Right Out: -5.124 ± 0.123 $\chi^2/\text{NDF}: 1488.2/31$
 Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$
 Right: -5.011 ± 0.086 $\chi^2/\text{NDF}: 3148.5/59$
 In: -5.970 ± 0.031 $\chi^2/\text{NDF}: 4037.2/50$
 Out: -6.011 ± 0.030 $\chi^2/\text{NDF}: 4215.5/56$
 All: -5.991 ± 0.022 $\chi^2/\text{NDF}: 8253.6/107$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.113 $\pm$ 0.006 χ^2 /NDF: 1395.6/27

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.134 $\pm$ 0.006 χ^2 /NDF: 1579.8/31

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

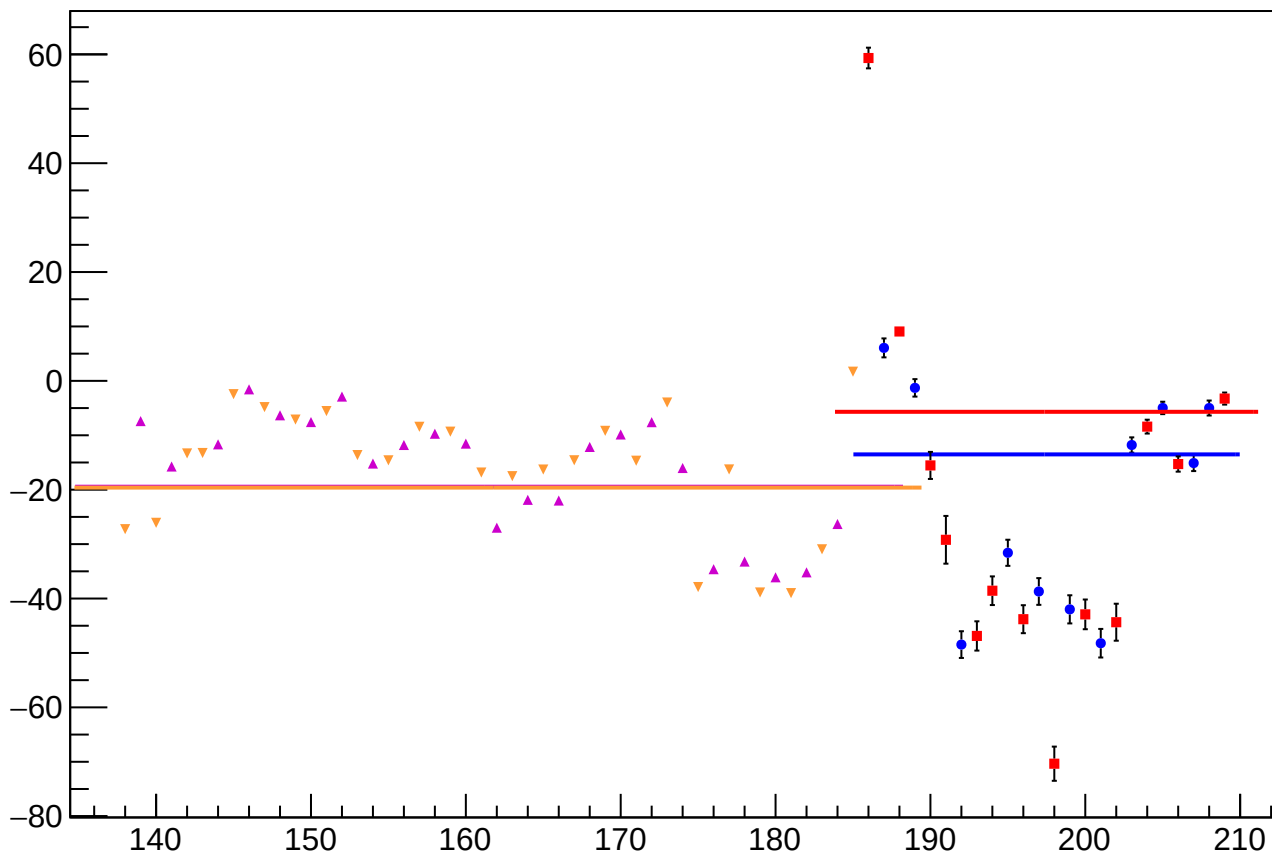
Right: 0.123 $\pm$ 0.004 χ^2 /NDF: 2981.2/59

In: 0.016 $\pm$ 0.001 χ^2 /NDF: 2896.7/50

Out: 0.020 $\pm$ 0.001 χ^2 /NDF: 2907.9/56

All: 0.018 $\pm$ 0.001 χ^2 /NDF: 5809.7/107

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.512 ± 0.514 χ^2/NDF : 941.9/10
 Left Out: -19.612 ± 0.103 χ^2/NDF : 15761.3/24
 Right Out: -5.686 ± 0.467 χ^2/NDF : 2923.4/12
 Left In: -19.450 ± 0.105 χ^2/NDF : 12283.1/22

Left: -19.533 ± 0.074 χ^2/NDF : 28045.6/47

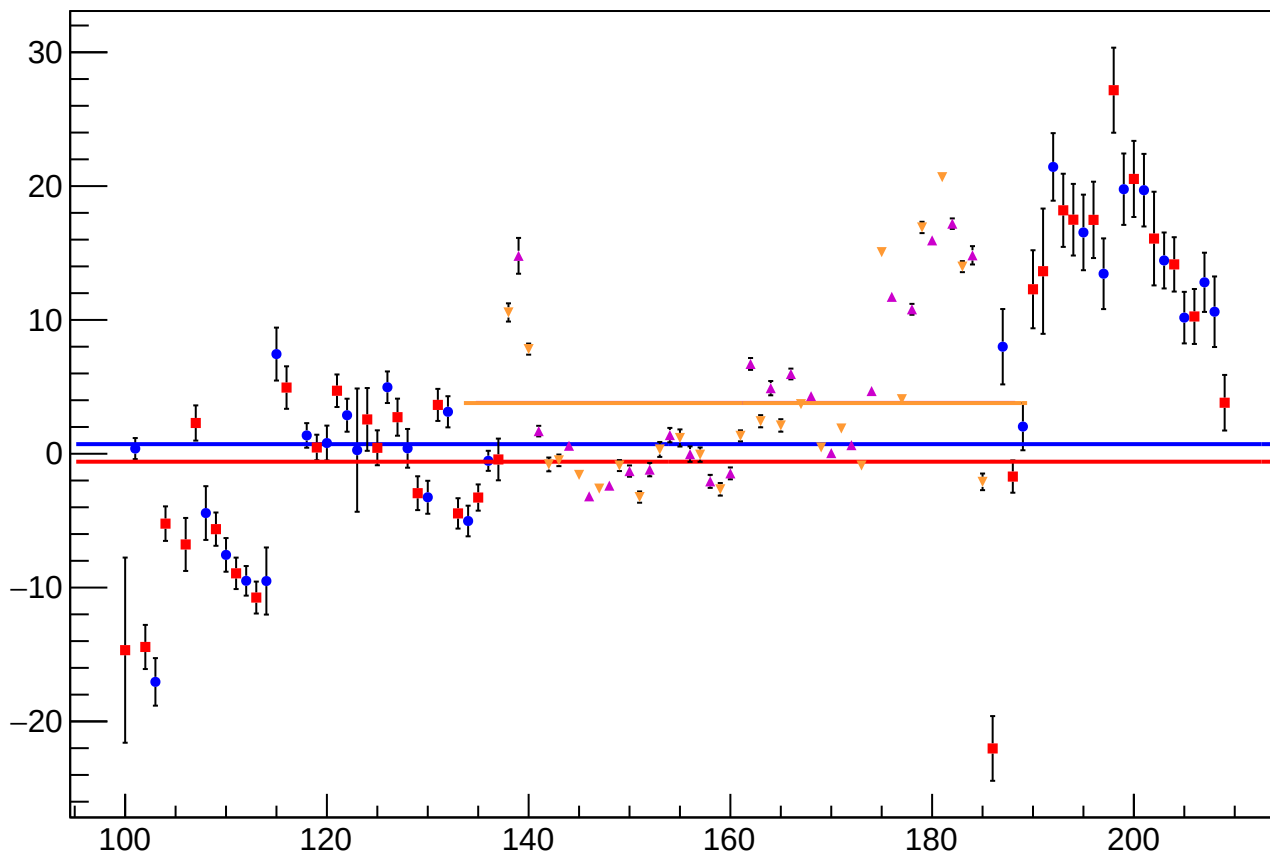
Right: -9.225 ± 0.346 χ^2/NDF : 3992.2/23

In: -19.212 ± 0.103 χ^2/NDF : 13353.1/33

Out: -18.964 ± 0.101 χ^2/NDF : 19531.5/37

All: -19.086 ± 0.072 χ^2/NDF : 32887.6/71

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.718 $\pm$ 0.271 χ^2 /NDF: 663.2/27

Left Out: 3.788 $\pm$ 0.082 χ^2 /NDF:7150.5/24

Right Out: -0.594 $\pm$ 0.274 χ^2 /NDF: 797.6/31

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

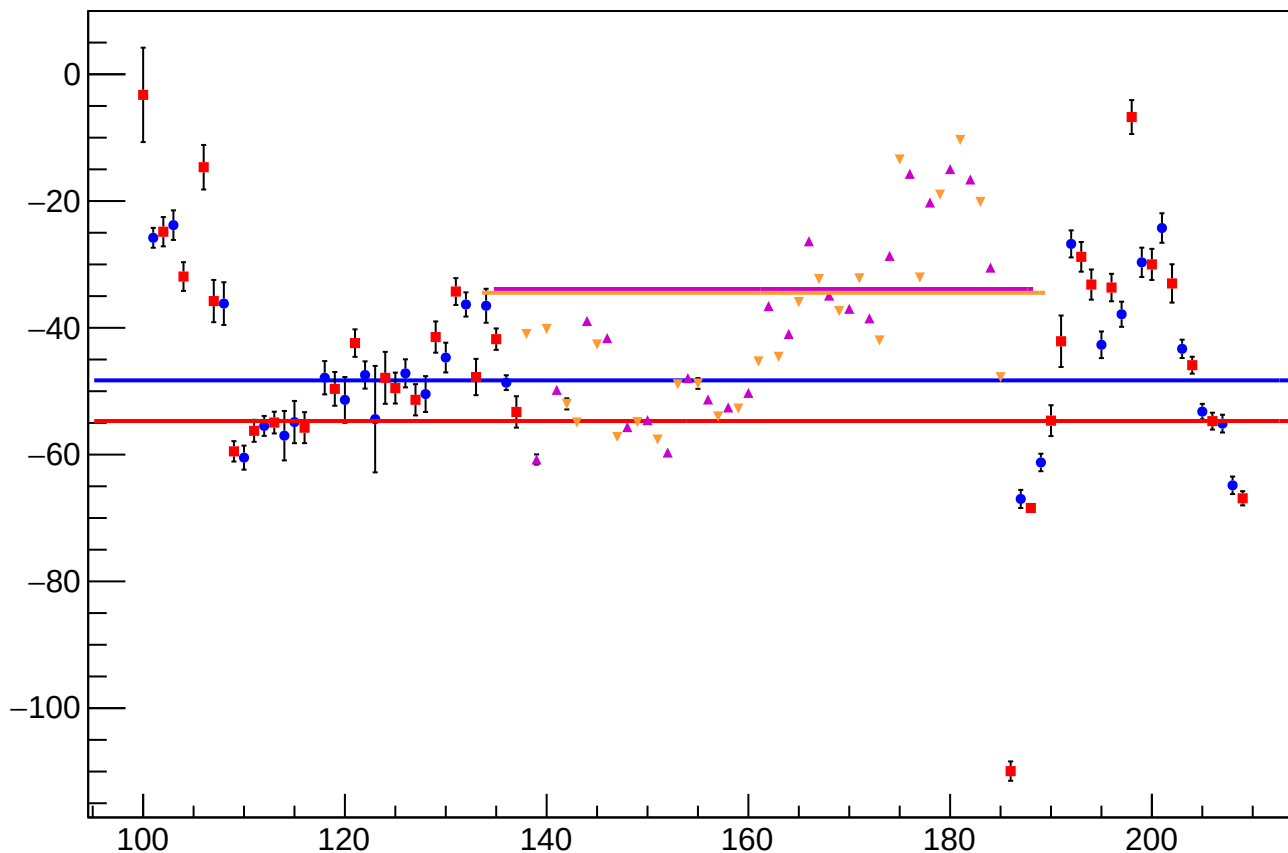
Right: 0.070 $\pm$ 0.192 χ^2 /NDF: 1472.5/59

In: 3.530 $\pm$ 0.080 χ^2 /NDF:6298.5/50

Out: 3.427 $\pm$ 0.079 χ^2 /NDF:8183.2/56

All: 3.478 $\pm$ 0.056 χ^2 /NDF: 14482.5/107

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.292 ± 0.356 χ^2/NDF : 1225.2/27

Left Out: -34.471 ± 0.104 χ^2/NDF : 20196.3/24

Right Out: -54.697 ± 0.328 χ^2/NDF : 3372.0/31

Left In: -33.875 ± 0.105 χ^2/NDF : 17638.7/22

Left: -34.177 ± 0.074 χ^2/NDF : 37851.2/47

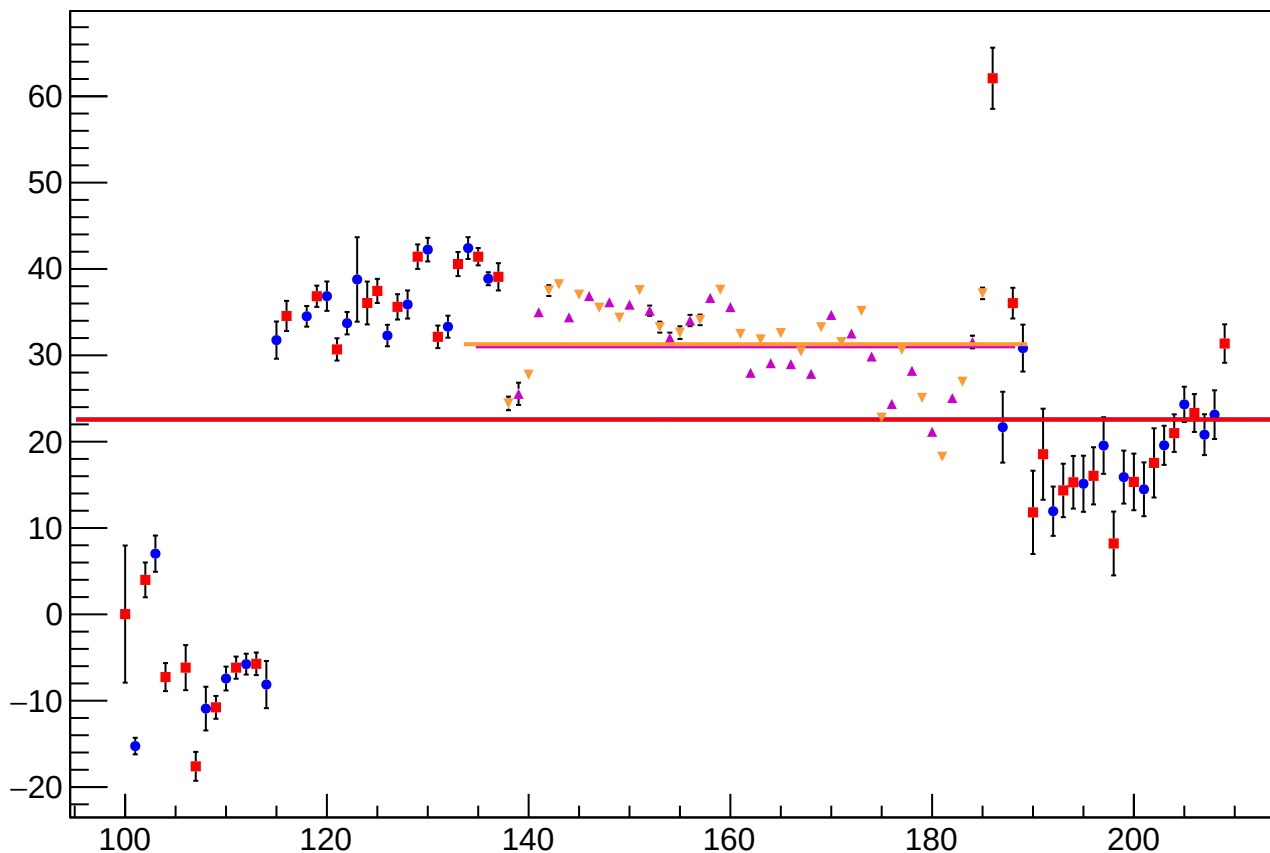
Right: -51.752 ± 0.241 χ^2/NDF : 4772.0/59

In: -35.034 ± 0.101 χ^2/NDF : 20371.6/50

Out: -36.312 ± 0.099 χ^2/NDF : 27015.0/56

All: -35.685 ± 0.071 χ^2/NDF : 47468.2/107

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.574 $\pm$ 0.306 χ^2 /NDF: 4362.1/27

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.558 $\pm$ 0.312 χ^2 /NDF: 4273.7/31

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

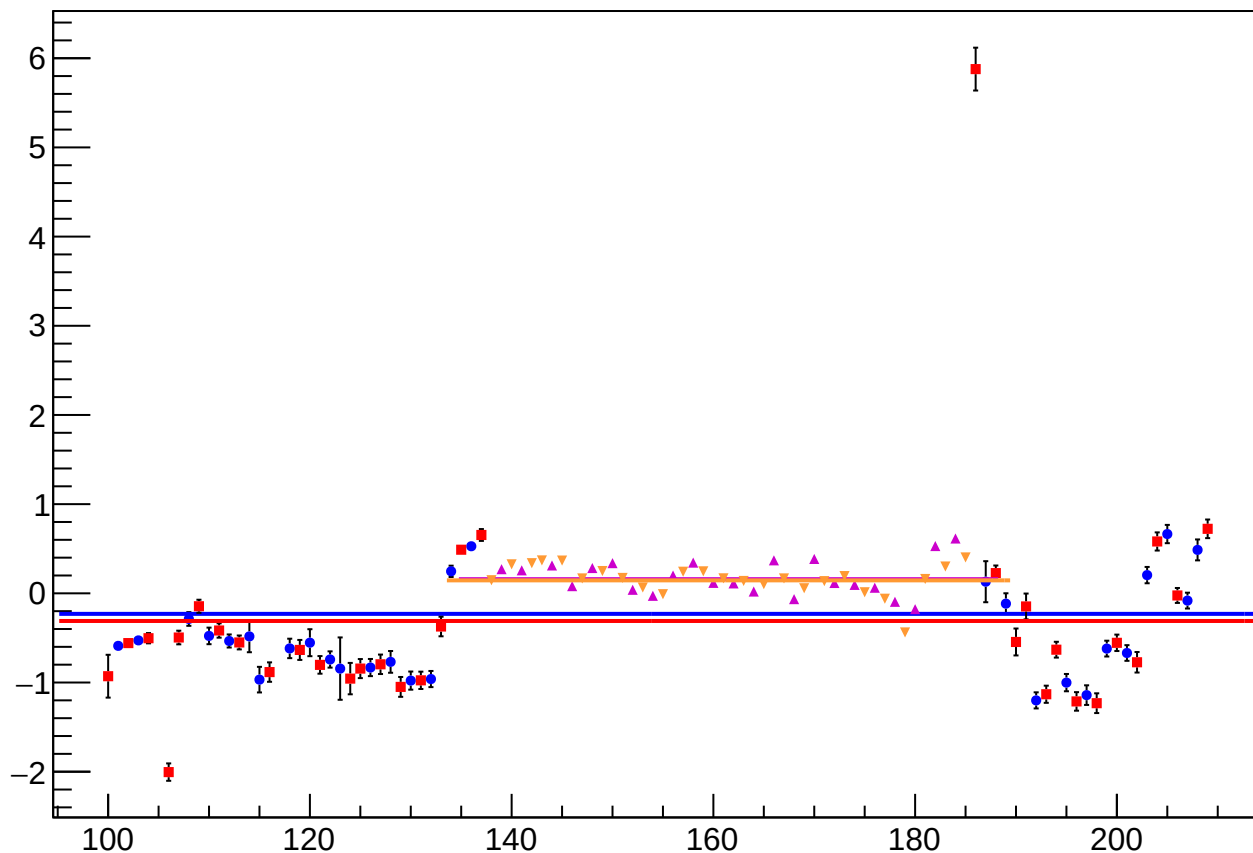
Right: 22.566 $\pm$ 0.218 χ^2 /NDF: 8635.8/59

In: 30.304 $\pm$ 0.090 χ^2 /NDF:7543.1/50

Out: 30.584 $\pm$ 0.089 χ^2 /NDF:8337.4/56

All: 30.446 $\pm$ 0.063 χ^2 /NDF: 15885.4/107

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.230 ± 0.015 χ^2/NDF : 1436.9/27

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.310 ± 0.015 χ^2/NDF : 2322.0/31

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

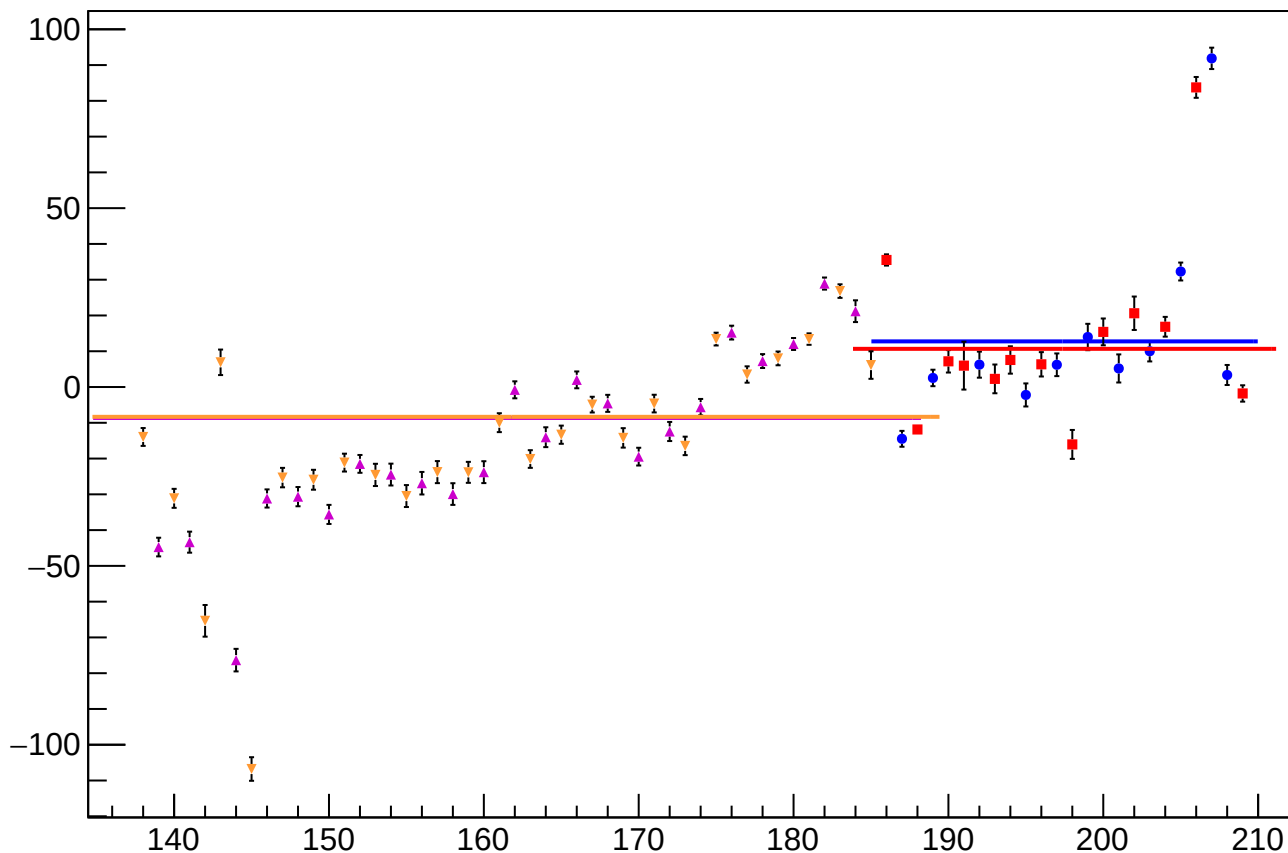
Right: -0.270 ± 0.011 χ^2/NDF : 3772.2/59

In: 0.130 ± 0.004 χ^2/NDF : 4041.3/50

Out: 0.114 ± 0.004 χ^2/NDF : 4710.4/56

All: 0.122 ± 0.003 χ^2/NDF : 8760.1/107

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.758 $\pm$ 0.869 χ^2 /NDF: 977.0/10

Left Out: -8.332 $\pm$ 0.500 χ^2 /NDF: 2226.2/24

Right Out: 10.672 $\pm$ 0.704 χ^2 /NDF: 1304.0/12

Left In: -8.652 $\pm$ 0.507 χ^2 /NDF: 2223.8/22

Left: -8.490 $\pm$ 0.356 χ^2 /NDF: 4450.2/47

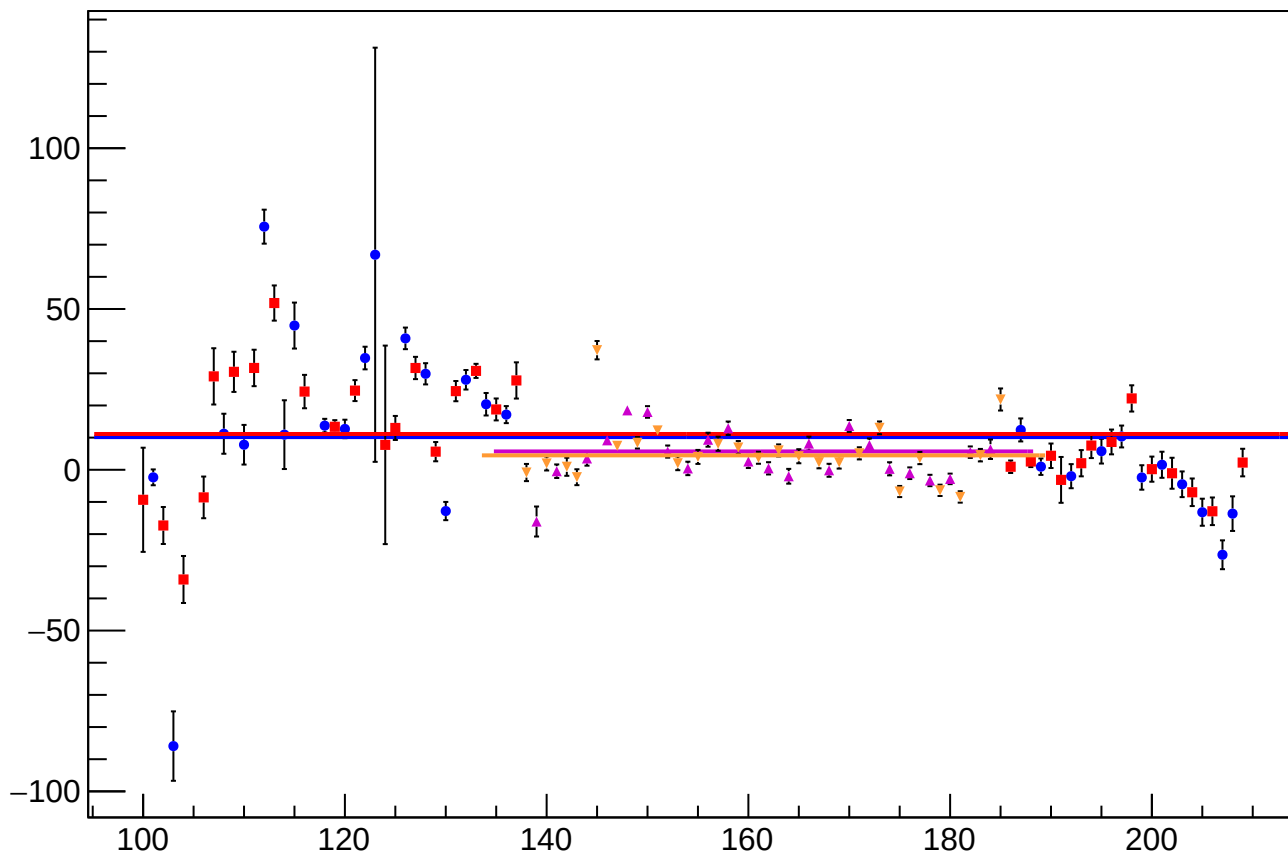
Right: 11.499 $\pm$ 0.547 χ^2 /NDF: 2284.4/23

In: -3.216 $\pm$ 0.438 χ^2 /NDF: 3653.2/33

Out: -1.971 $\pm$ 0.407 χ^2 /NDF: 4014.5/37

All: -2.549 $\pm$ 0.298 χ^2 /NDF: 7672.0/71

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.165 $\pm$ 0.683 χ^2 /NDF: 741.3/27

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF:371.9/24

Right Out: 11.130 $\pm$ 0.638 χ^2 /NDF: 471.7/31

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

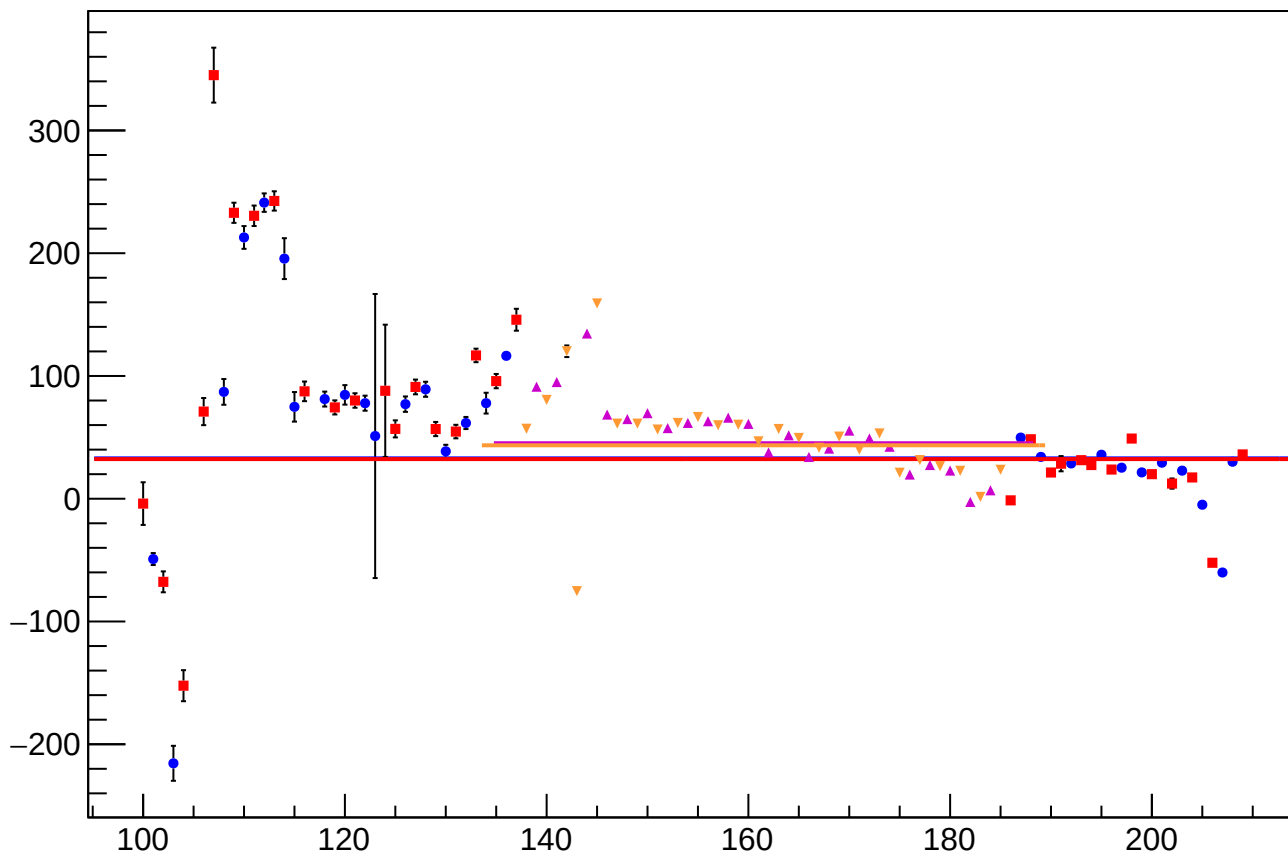
Right: 10.680 $\pm$ 0.467 χ^2 /NDF: 1214.1/59

In: 6.861 $\pm$ 0.348 χ^2 /NDF:1096.9/50

Out: 6.304 $\pm$ 0.334 χ^2 /NDF:922.2/56

All: 6.571 $\pm$ 0.241 χ^2 /NDF: 2020.5/107

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.863+/-0.707 χ^2 /NDF: 4033.6/27

Left Out: 43.524+/-0.498 χ^2 /NDF:3830.7/24

Right Out: 32.291+/-0.571 χ^2 /NDF: 5283.2/31

Left In: 45.211+/-0.504 χ^2 /NDF:3048.5/22

Left: 44.358+/-0.354 χ^2 /NDF: 6884.8/47

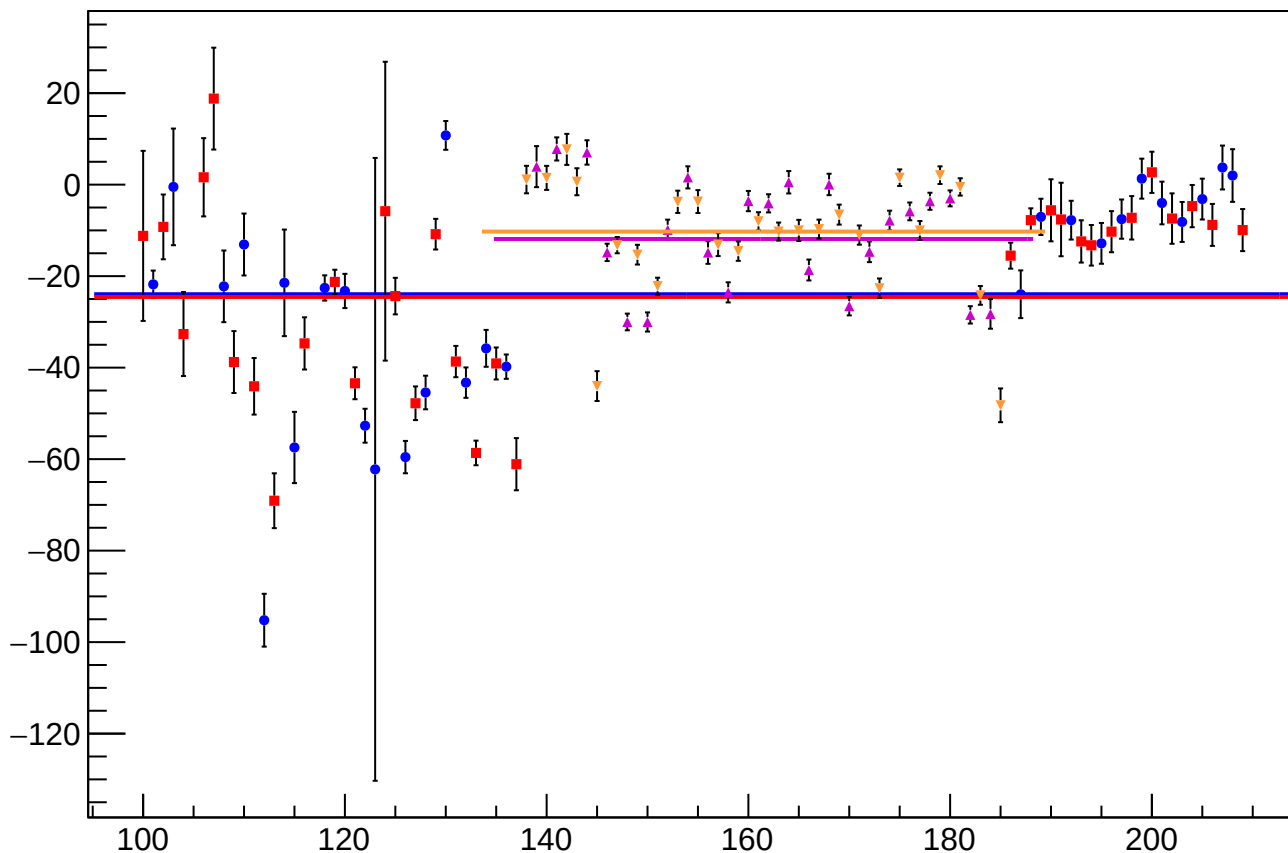
Right: 32.516+/-0.444 χ^2 /NDF: 9317.2/59

In: 41.049+/-0.411 χ^2 /NDF:7284.2/50

Out: 38.666+/-0.375 χ^2 /NDF:9333.6/56

All: 39.751+/-0.277 χ^2 /NDF: 16636.2/107

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.957 ± 0.798 χ^2/NDF : 767.4/27

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -24.546 ± 0.772 χ^2/NDF : 615.1/31

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

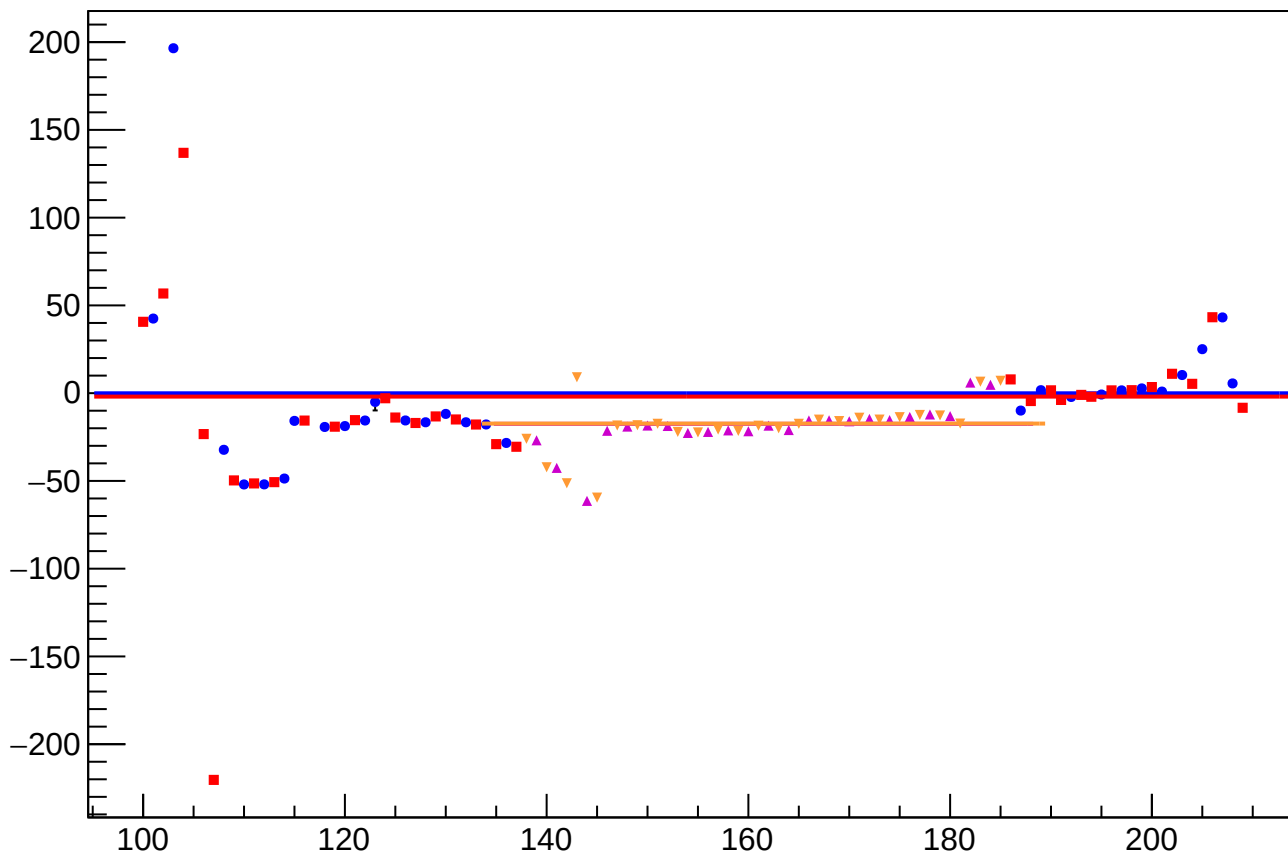
Right: -24.261 ± 0.555 χ^2/NDF : 1382.8/59

In: -14.849 ± 0.396 χ^2/NDF : 1606.2/50

Out: -13.809 ± 0.385 χ^2/NDF : 1424.7/56

All: -14.314 ± 0.276 χ^2/NDF : 3034.5/107

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.076 ± 0.037 χ^2/NDF : 673845.6/27

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.963 ± 0.036 χ^2/NDF : 671894.7/31

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

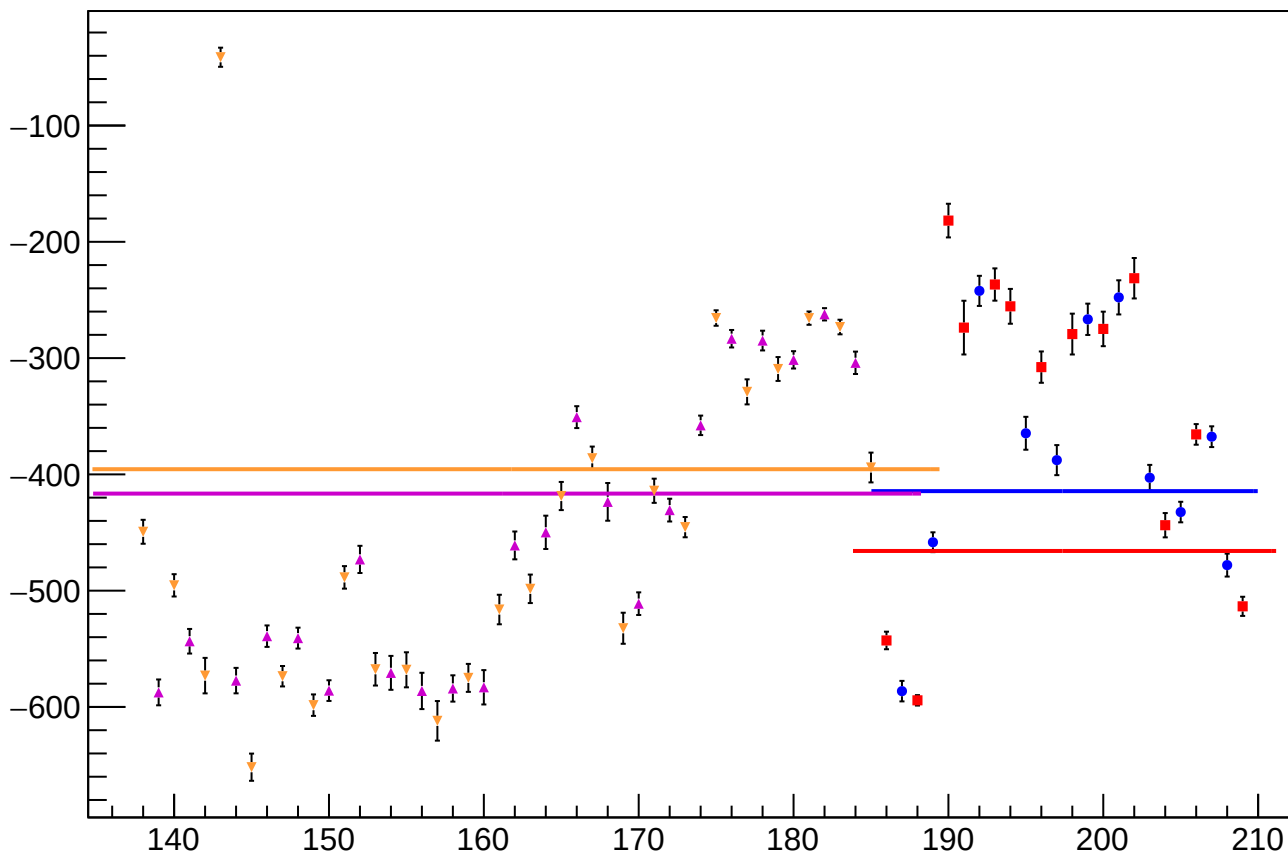
Right: -1.059 ± 0.026 χ^2/NDF : 1347062.9/59

In: -13.421 ± 0.018 χ^2/NDF : 1098880.3/50

Out: -13.584 ± 0.018 χ^2/NDF : 1135545.3/56

All: -13.504 ± 0.013 χ^2/NDF : 2234467.0/107

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -414.392 ± 3.202 $\chi^2/\text{NDF}: 924.0/10$

Left Out: -395.547 ± 1.953 $\chi^2/\text{NDF}: 5946.5/24$

Right Out: -465.858 ± 2.704 $\chi^2/\text{NDF}: 2611.6/12$

Left In: -416.521 ± 2.005 $\chi^2/\text{NDF}: 3917.0/22$

Left: -405.762 ± 1.399 $\chi^2/\text{NDF}: 9919.7/47$

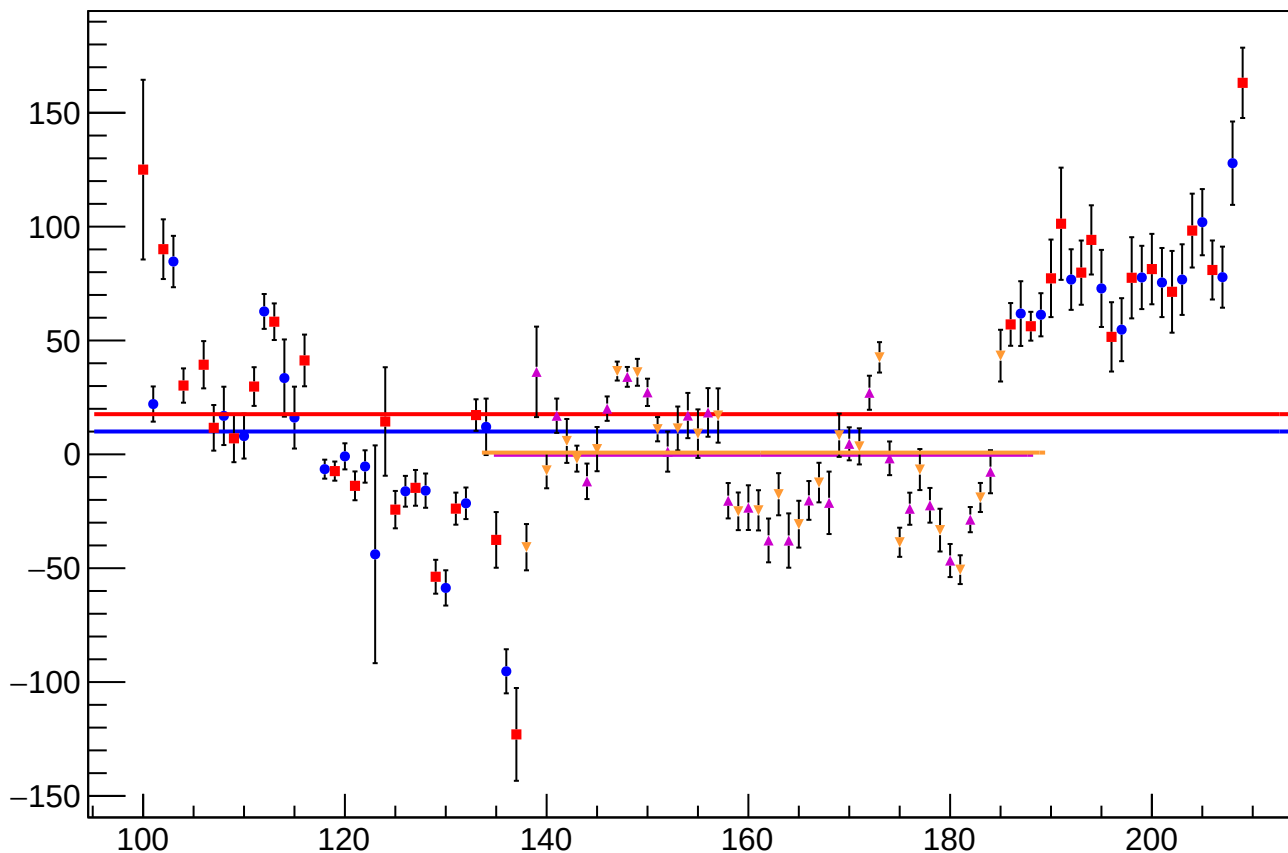
Right: -444.429 ± 2.066 $\chi^2/\text{NDF}: 3686.4/23$

In: -415.922 ± 1.699 $\chi^2/\text{NDF}: 4841.3/33$

Out: -419.656 ± 1.584 $\chi^2/\text{NDF}: 9002.3/37$

All: -417.920 ± 1.158 $\chi^2/\text{NDF}: 13846.2/71$

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.035 $\pm$ 1.749 χ^2 /NDF: 625.8/27

Left Out: 0.767 $\pm$ 1.503 χ^2 /NDF:350.1/24

Right Out: 17.646 $\pm$ 1.686 χ^2 /NDF: 679.4/31

Left In: -0.202 $\pm$ 1.575 χ^2 /NDF:260.8/22

Left: 0.305 $\pm$ 1.087 χ^2 /NDF: 611.1/47

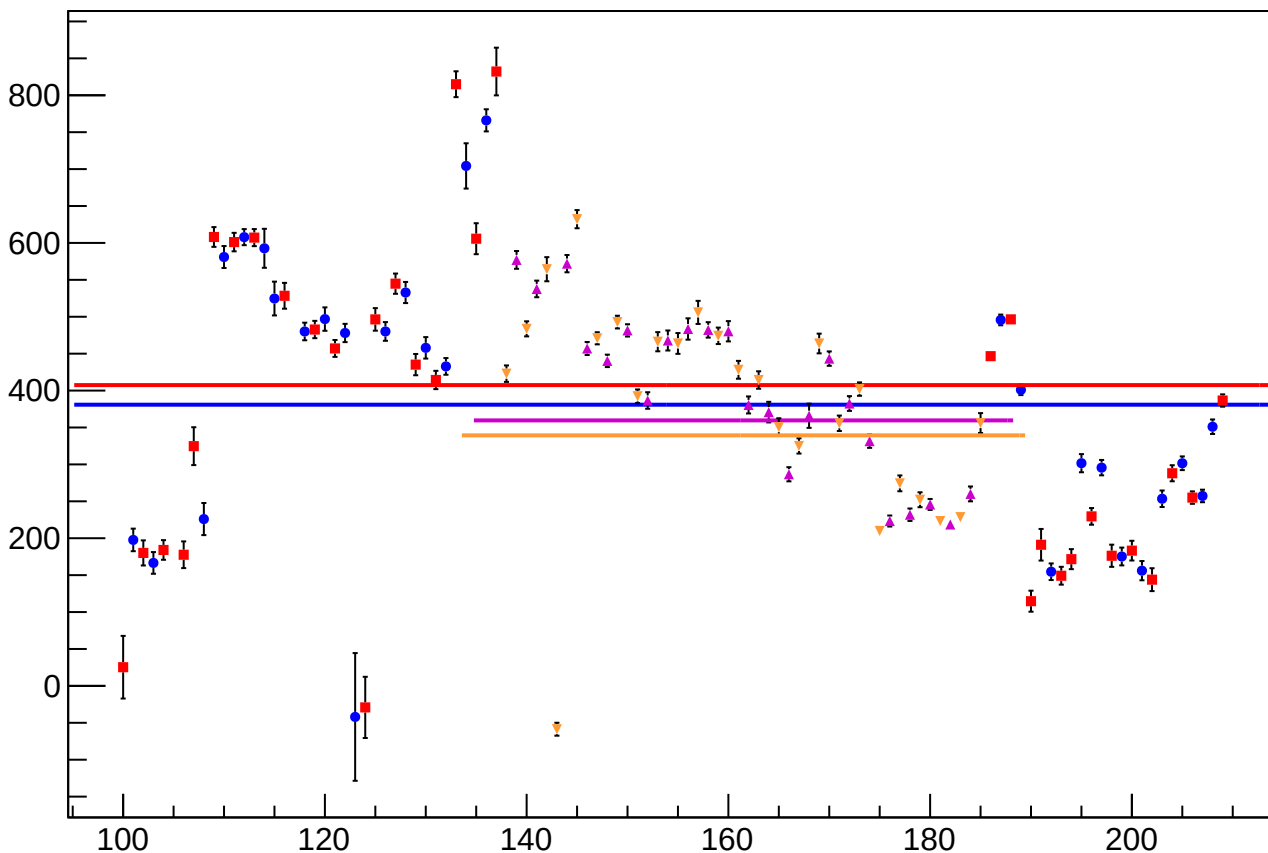
Right: 13.980 $\pm$ 1.214 χ^2 /NDF: 1315.0/59

In: 4.382 $\pm$ 1.171 χ^2 /NDF:905.5/50

Out: 8.237 $\pm$ 1.122 χ^2 /NDF:1085.3/56

All: 6.392 $\pm$ 0.810 χ^2 /NDF: 1996.5/107

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 380.871 ± 2.277 $\chi^2/\text{NDF}: 4113.3/27$

Left Out: 339.355 ± 1.963 $\chi^2/\text{NDF}: 5502.5/24$

Right Out: 407.423 ± 1.952 $\chi^2/\text{NDF}: 6084.0/31$

Left In: 359.609 ± 2.003 $\chi^2/\text{NDF}: 3398.5/22$

Left: 349.278 ± 1.402 $\chi^2/\text{NDF}: 8953.2/47$

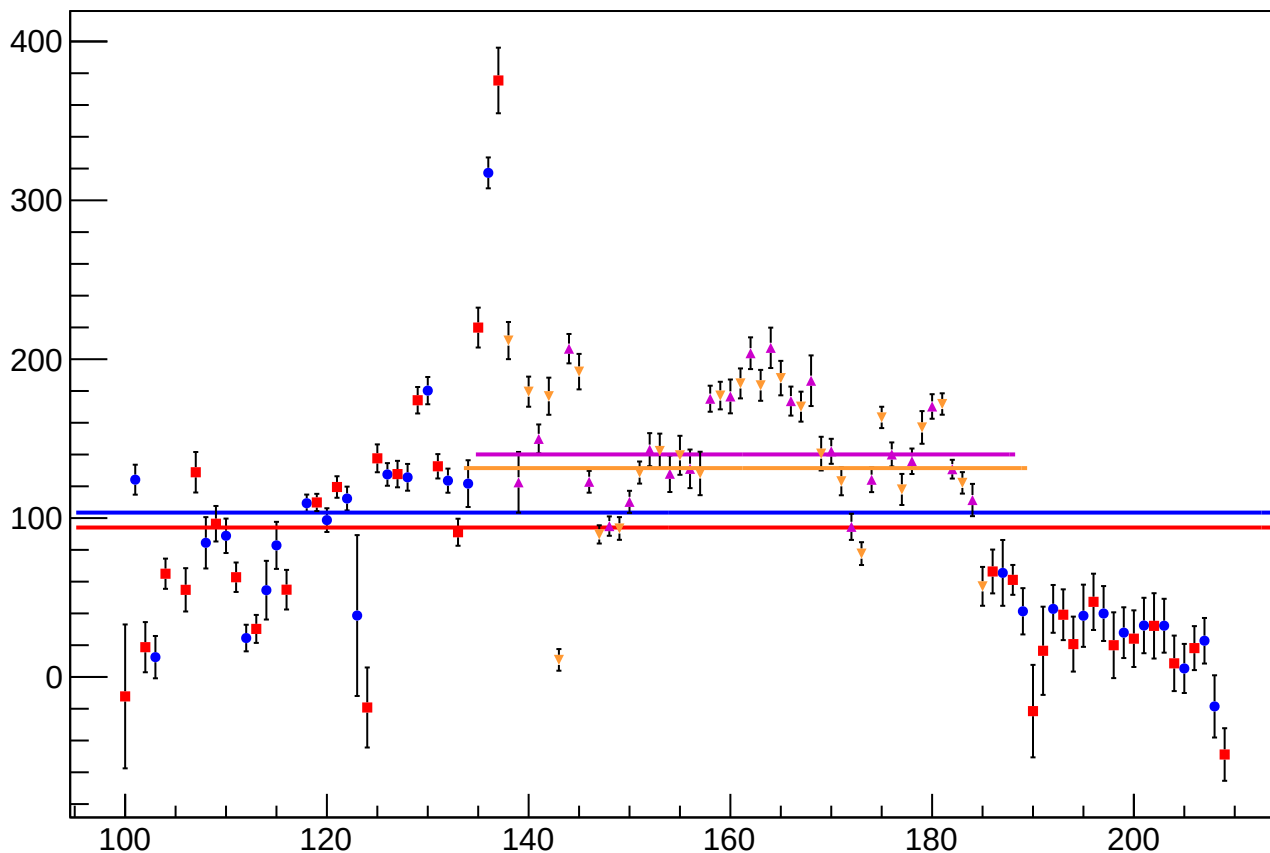
Right: 396.175 ± 1.482 $\chi^2/\text{NDF}: 10275.6/59$

In: 368.882 ± 1.504 $\chi^2/\text{NDF}: 7560.9/50$

Out: 373.569 ± 1.384 $\chi^2/\text{NDF}: 12191.1/56$

All: 371.420 ± 1.018 $\chi^2/\text{NDF}: 19757.3/107$

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 103.460 ± 2.038 $\chi^2/\text{NDF}: 977.4/27$

Left Out: 131.464 ± 1.728 $\chi^2/\text{NDF}: 809.3/24$

Right Out: 94.067 ± 1.983 $\chi^2/\text{NDF}: 857.6/31$

Left In: 140.069 ± 1.795 $\chi^2/\text{NDF}: 316.5/22$

Left: 135.602 ± 1.245 $\chi^2/\text{NDF}: 1137.8/47$

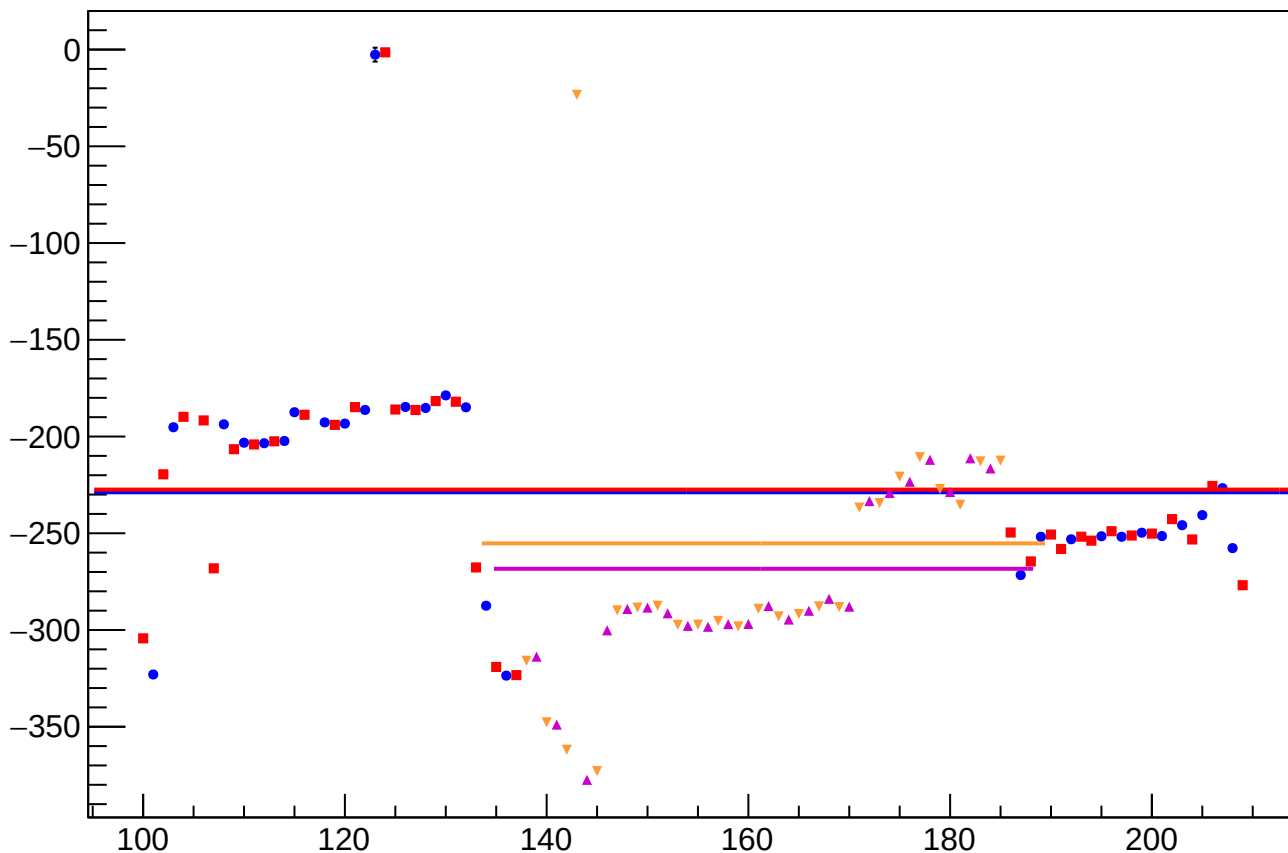
Right: 98.635 ± 1.421 $\chi^2/\text{NDF}: 1845.9/59$

In: 124.076 ± 1.347 $\chi^2/\text{NDF}: 1475.6/50$

Out: 115.325 ± 1.303 $\chi^2/\text{NDF}: 1869.2/56$

All: 119.553 ± 0.936 $\chi^2/\text{NDF}: 3366.6/107$

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -228.810+/-0.108 χ^2/NDF : 168354.8/27

Left Out: -255.232+/-0.082 χ^2/NDF : 728016.7/24

Right Out: -227.421+/-0.103 χ^2/NDF : 153283.8/31

Left In: -268.353+/-0.084 χ^2/NDF : 262479.3/22

Left: -261.661+/-0.059 χ^2/NDF : 1003051.2/47

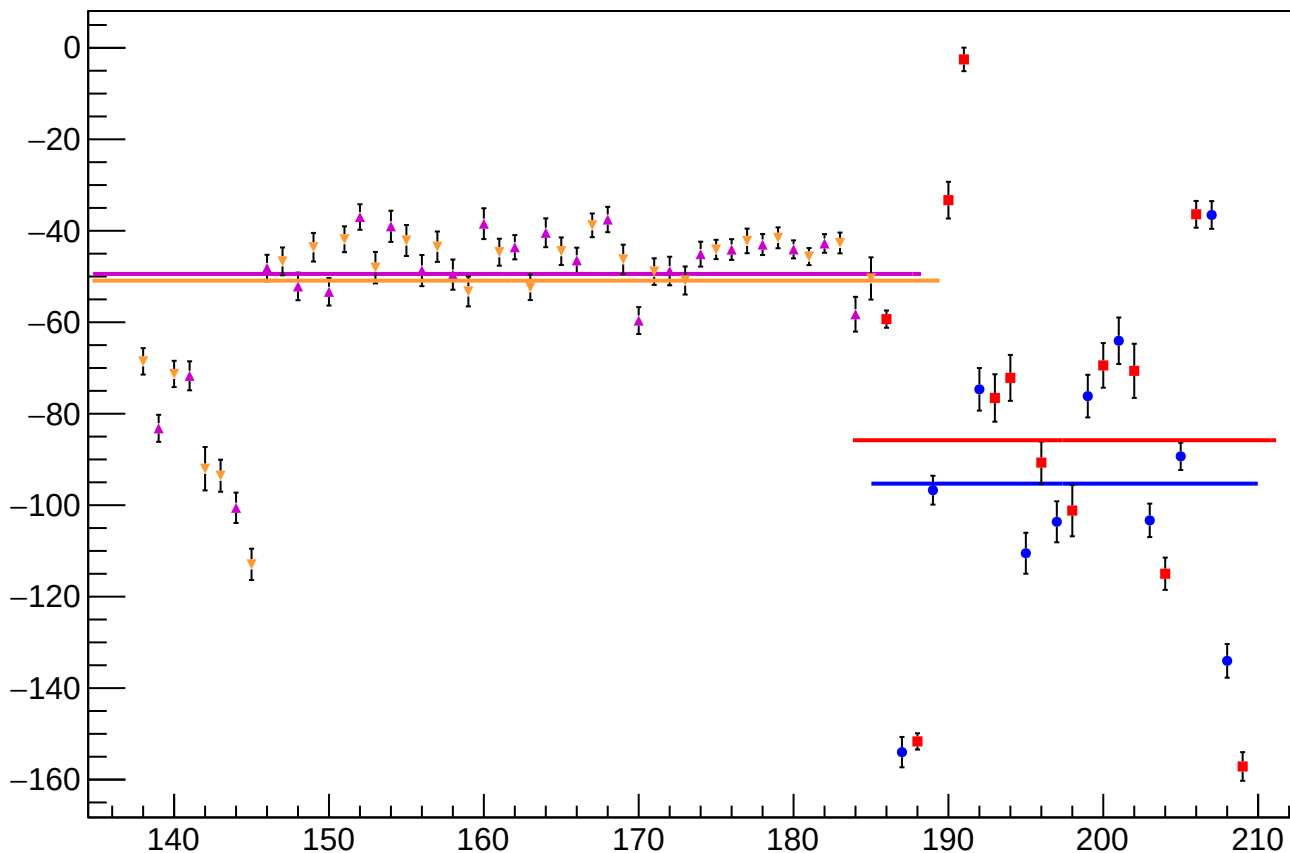
Right: -228.077+/-0.075 χ^2/NDF : 321725.2/59

In: -253.606+/-0.066 χ^2/NDF : 514222.1/50

Out: -244.393+/-0.064 χ^2/NDF : 926171.6/56

All: -248.845+/-0.046 χ^2/NDF : 1450397.5/10

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -95.288 $\pm$ 1.124 χ^2 /NDF: 897.5/10

Left Out: -50.897 $\pm$ 0.573 χ^2 /NDF: 761.1/24

Right Out: -85.801 $\pm$ 0.865 χ^2 /NDF: 3695.7/12

Left In: -49.432 $\pm$ 0.584 χ^2 /NDF: 543.4/22

Left: -50.179 $\pm$ 0.409 χ^2 /NDF: 1307.8/47

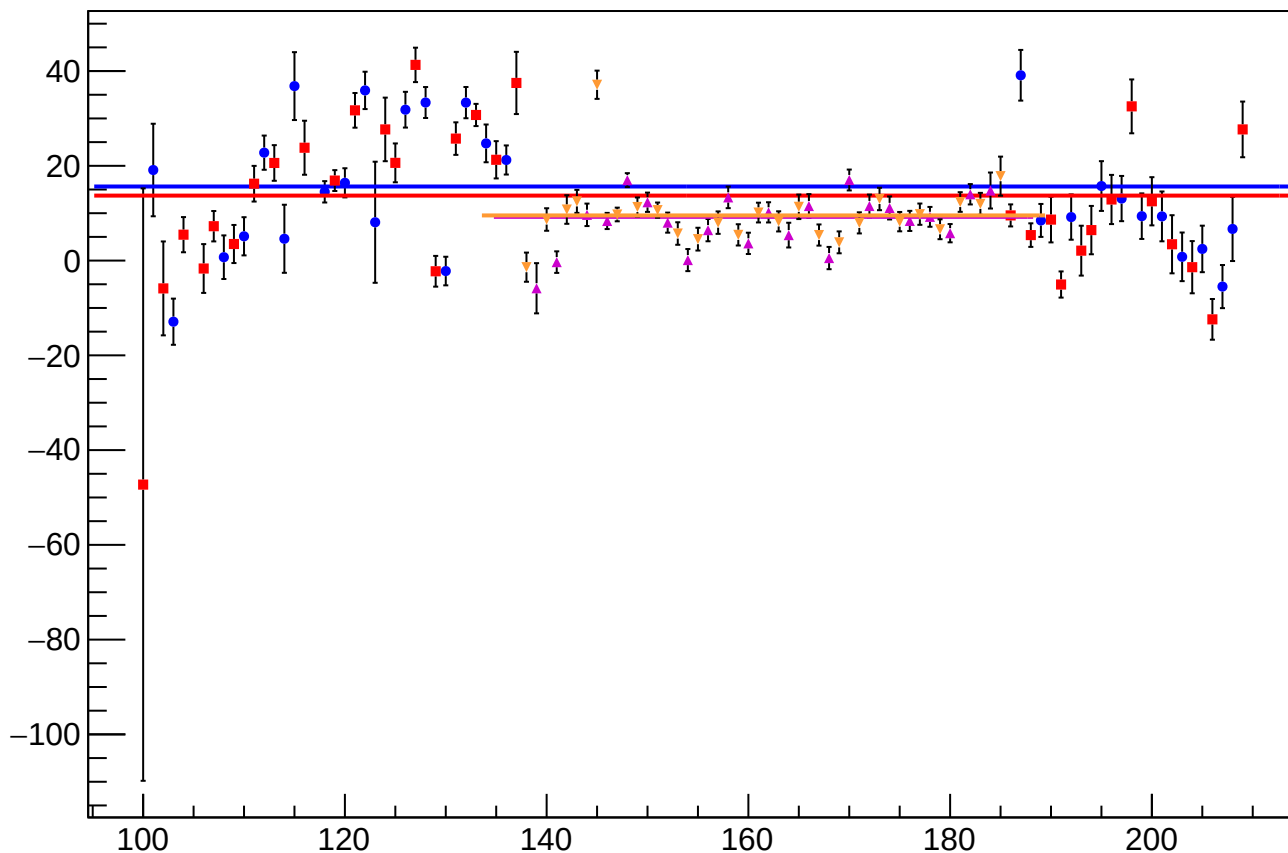
Right: -89.330 $\pm$ 0.686 χ^2 /NDF: 4637.9/23

In: -59.174 $\pm$ 0.518 χ^2 /NDF: 2751.0/33

Out: -61.530 $\pm$ 0.478 χ^2 /NDF: 5588.1/37

All: -60.448 $\pm$ 0.351 χ^2 /NDF: 8350.3/71

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.636 $\pm$ 0.777 χ^2 /NDF: 281.7/27

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 13.715 $\pm$ 0.677 χ^2 /NDF: 365.9/31

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

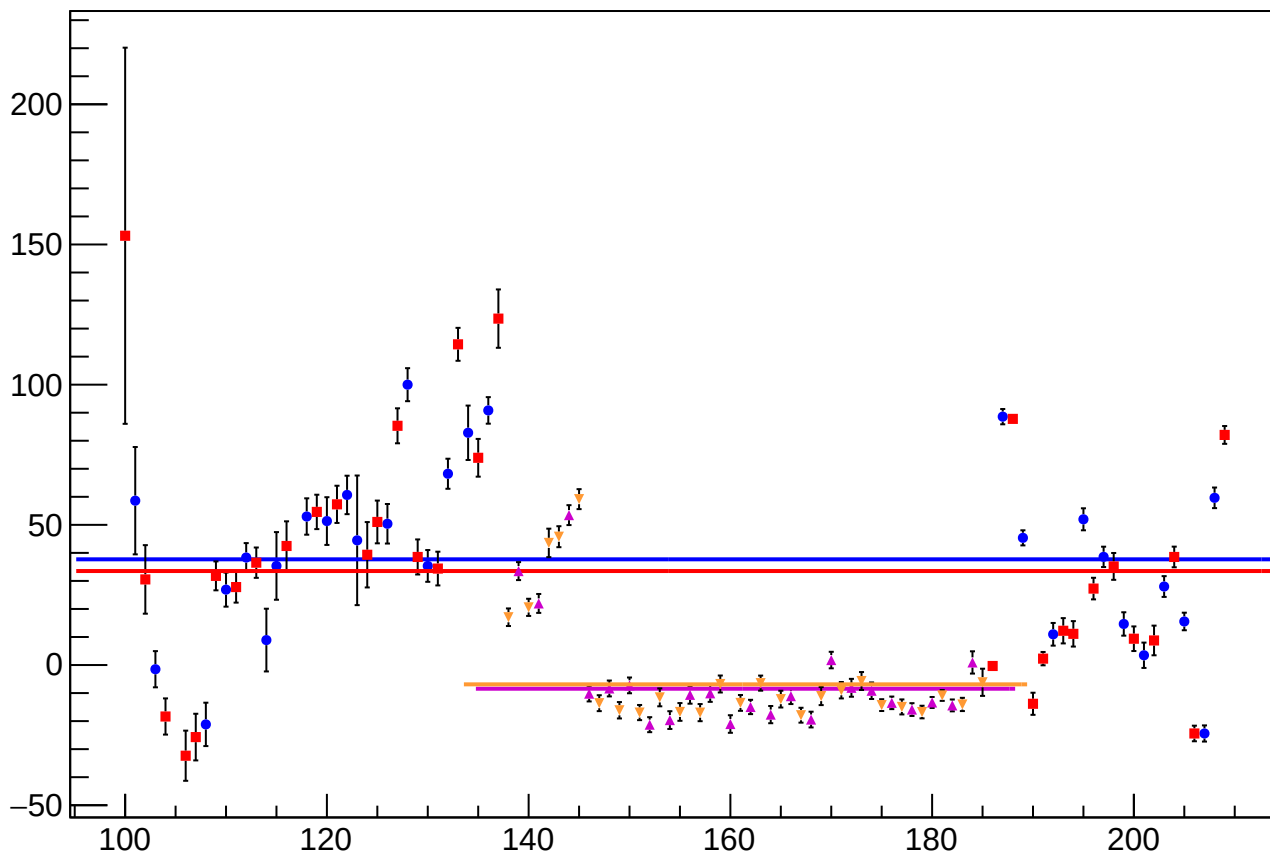
Right: 14.543 $\pm$ 0.510 χ^2 /NDF: 651.1/59

In: 10.902 $\pm$ 0.397 χ^2 /NDF:455.9/50

Out: 10.798 $\pm$ 0.372 χ^2 /NDF:526.9/56

All: 10.846 $\pm$ 0.272 χ^2 /NDF: 982.9/107

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 37.705 $\pm$ 0.876 χ^2 /NDF: 1479.0/27

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF: 914.2/24

Right Out: 33.528 $\pm$ 0.682 χ^2 /NDF: 3594.2/31

Left In: -8.451 $\pm$ 0.580 χ^2 /NDF: 688.9/22

Left: -7.658 $\pm$ 0.407 χ^2 /NDF: 1606.8/47

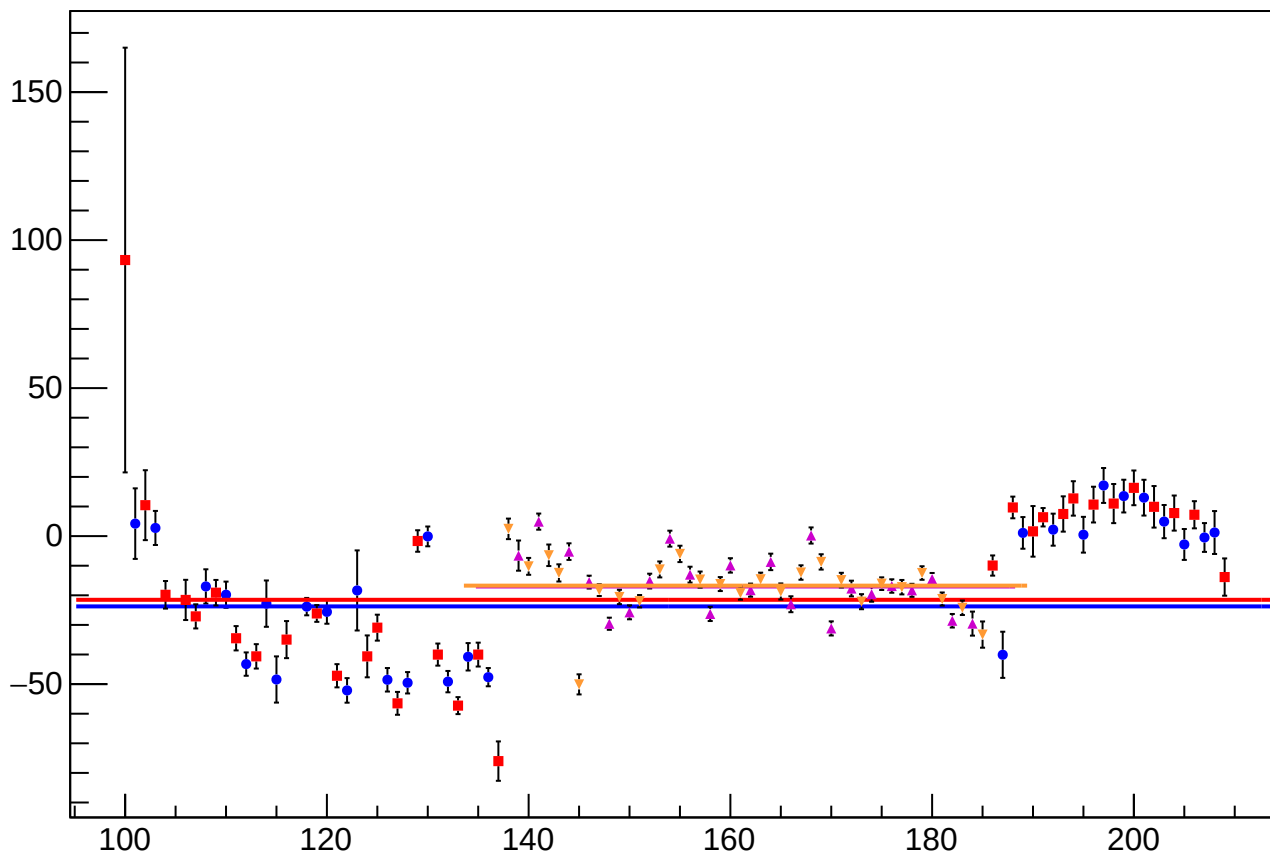
Right: 35.105 $\pm$ 0.538 χ^2 /NDF: 5087.4/59

In: 5.616 $\pm$ 0.483 χ^2 /NDF: 4099.3/50

Out: 9.773 $\pm$ 0.438 χ^2 /NDF: 6573.9/56

All: 7.900 $\pm$ 0.324 χ^2 /NDF: 10713.8/107

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.747 ± 0.896 χ^2/NDF : 646.0/27

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -21.518 ± 0.803 χ^2/NDF : 894.7/31

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

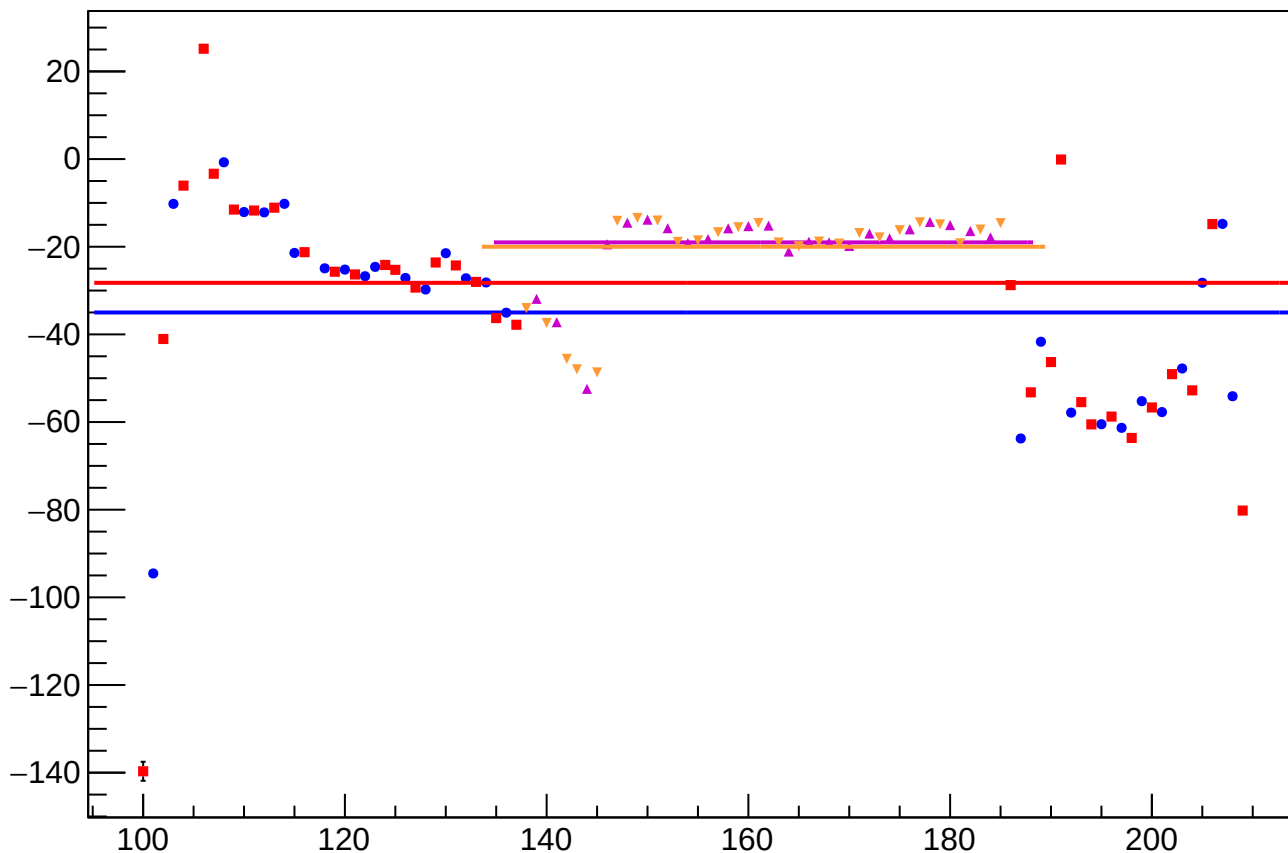
Right: -22.511 ± 0.598 χ^2/NDF : 1544.1/59

In: -18.727 ± 0.451 χ^2/NDF : 1015.7/50

Out: -18.095 ± 0.429 χ^2/NDF : 1143.3/56

All: -18.395 ± 0.311 χ^2/NDF : 2160.1/107

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -35.001 $\pm$ 0.042 χ^2 /NDF: 217628.6/27

Left Out: -20.006 $\pm$ 0.023 χ^2 /NDF:145623.8/24

Right Out: -28.235 $\pm$ 0.037 χ^2 /NDF: 445648.0/31

Left In: -19.007 $\pm$ 0.024 χ^2 /NDF:90873.3/22

Left: -19.514 $\pm$ 0.017 χ^2 /NDF: 237400.2/47

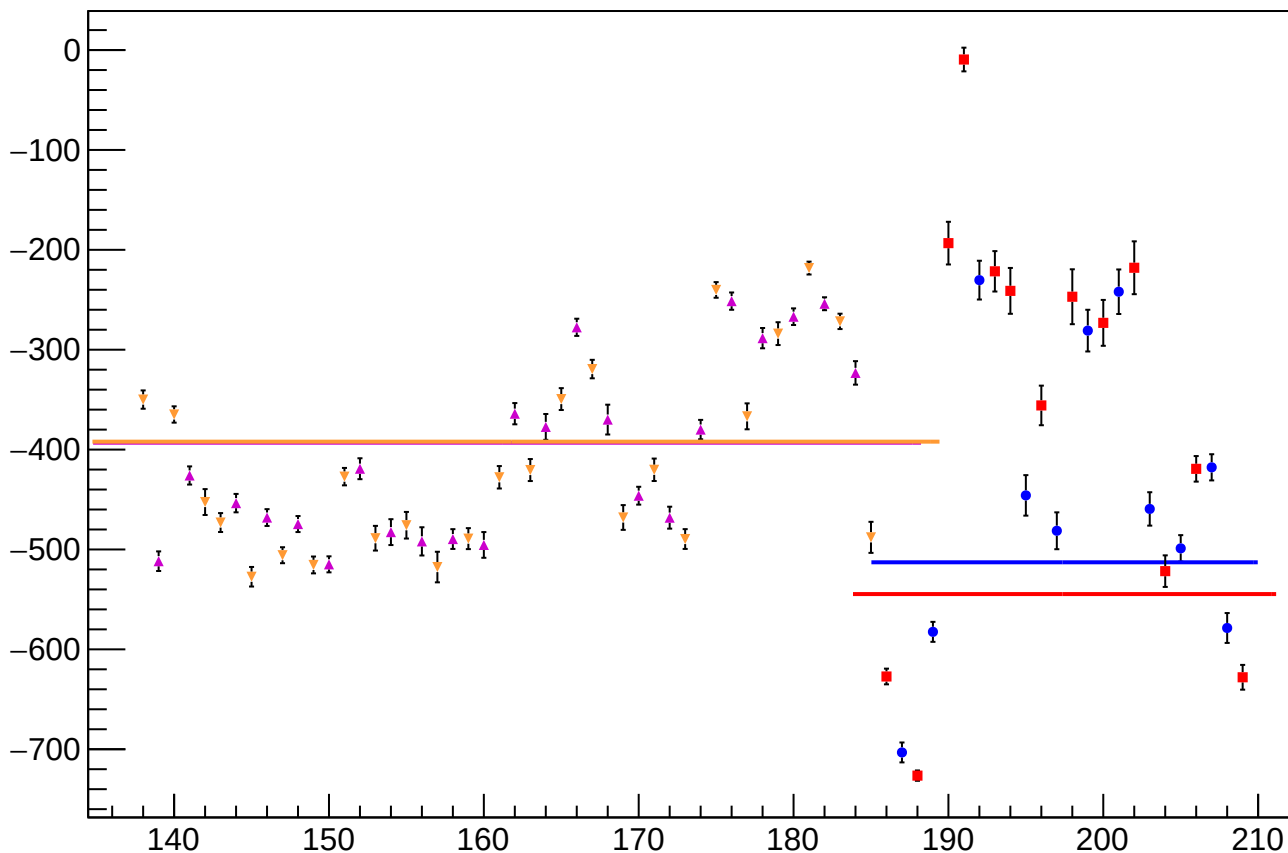
Right: -31.140 $\pm$ 0.028 χ^2 /NDF: 677847.8/59

In: -22.816 $\pm$ 0.021 χ^2 /NDF:417192.7/50

Out: -22.367 $\pm$ 0.020 χ^2 /NDF:627074.3/56

All: -22.581 $\pm$ 0.014 χ^2 /NDF: 1044514.5/107

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -512.848+/-4.386 χ^2/NDF : 993.4/10

Left Out: -392.054+/-1.967 χ^2/NDF :2717.2/24

Right Out: -544.652+/-3.316 χ^2/NDF : 4723.7/12

Left In: -393.113+/-2.006 χ^2/NDF :2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47

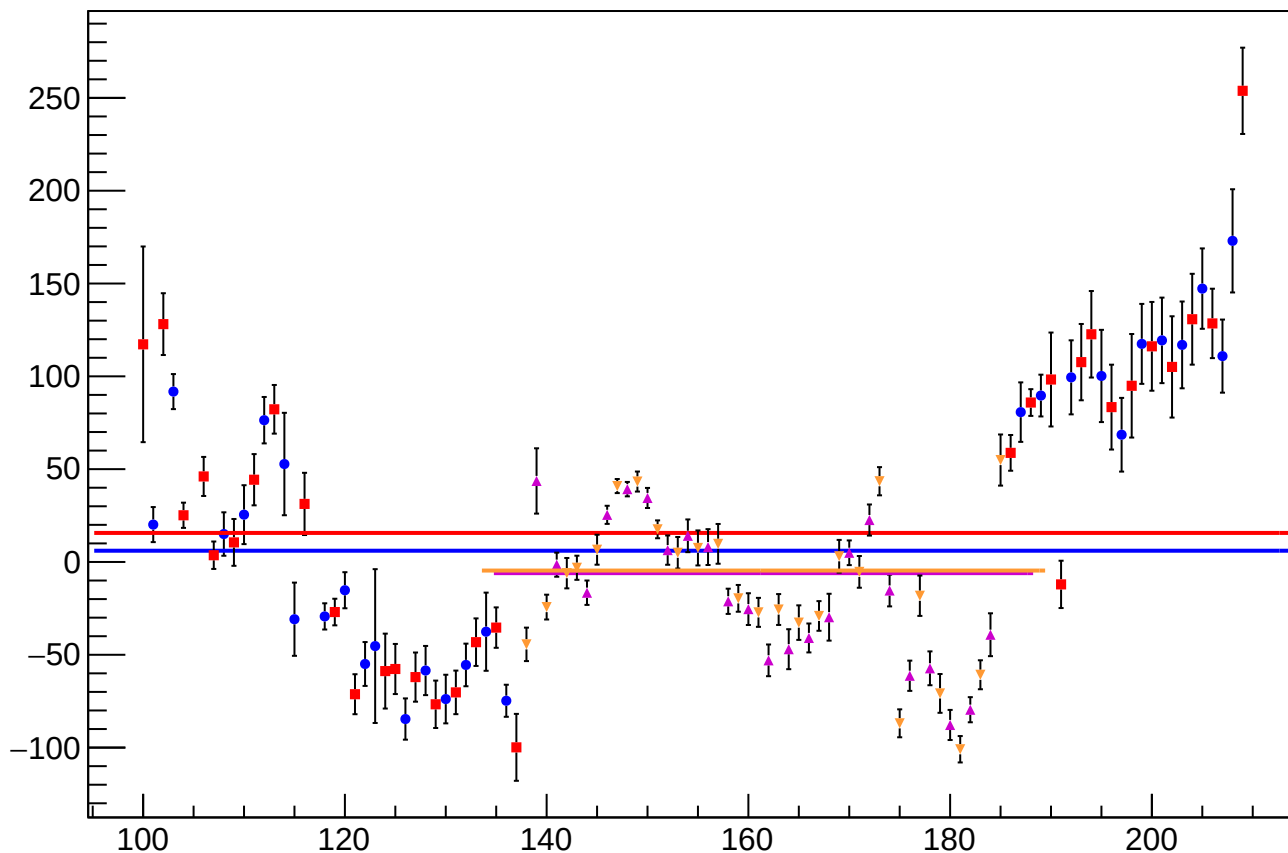
Right: -533.083+/-2.645 χ^2/NDF : 5750.5/23

In: -413.820+/-1.824 χ^2/NDF :3863.1/33

Out: -431.756+/-1.692 χ^2/NDF :9007.3/37

All: -423.462+/-1.240 χ^2/NDF : 12922.4/71

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.060 ± 2.535 $\chi^2/\text{NDF}: 734.6/27$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 15.643 ± 2.229 $\chi^2/\text{NDF}: 842.1/31$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

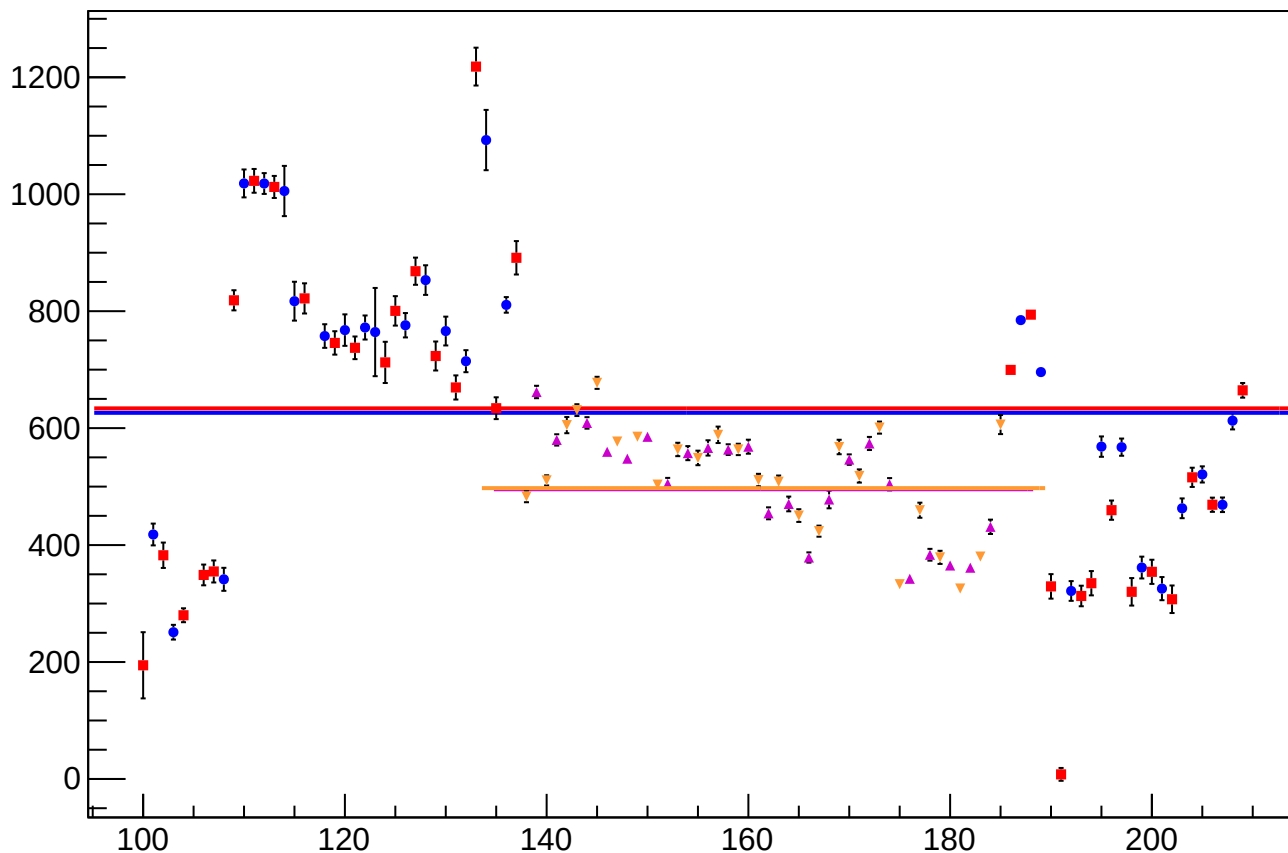
Right: 11.465 ± 1.674 $\chi^2/\text{NDF}: 1584.7/59$

In: -2.836 ± 1.301 $\chi^2/\text{NDF}: 1405.4/50$

Out: 1.474 ± 1.223 $\chi^2/\text{NDF}: 1672.8/56$

All: -0.547 ± 0.891 $\chi^2/\text{NDF}: 3084.0/107$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 626.197 $\pm$ 3.090 χ^2 /NDF: 4212.8/27

Left Out: 497.381 $\pm$ 1.966 χ^2 /NDF:2614.6/24

Right Out: 633.788 $\pm$ 2.426 χ^2 /NDF: 9628.1/31

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

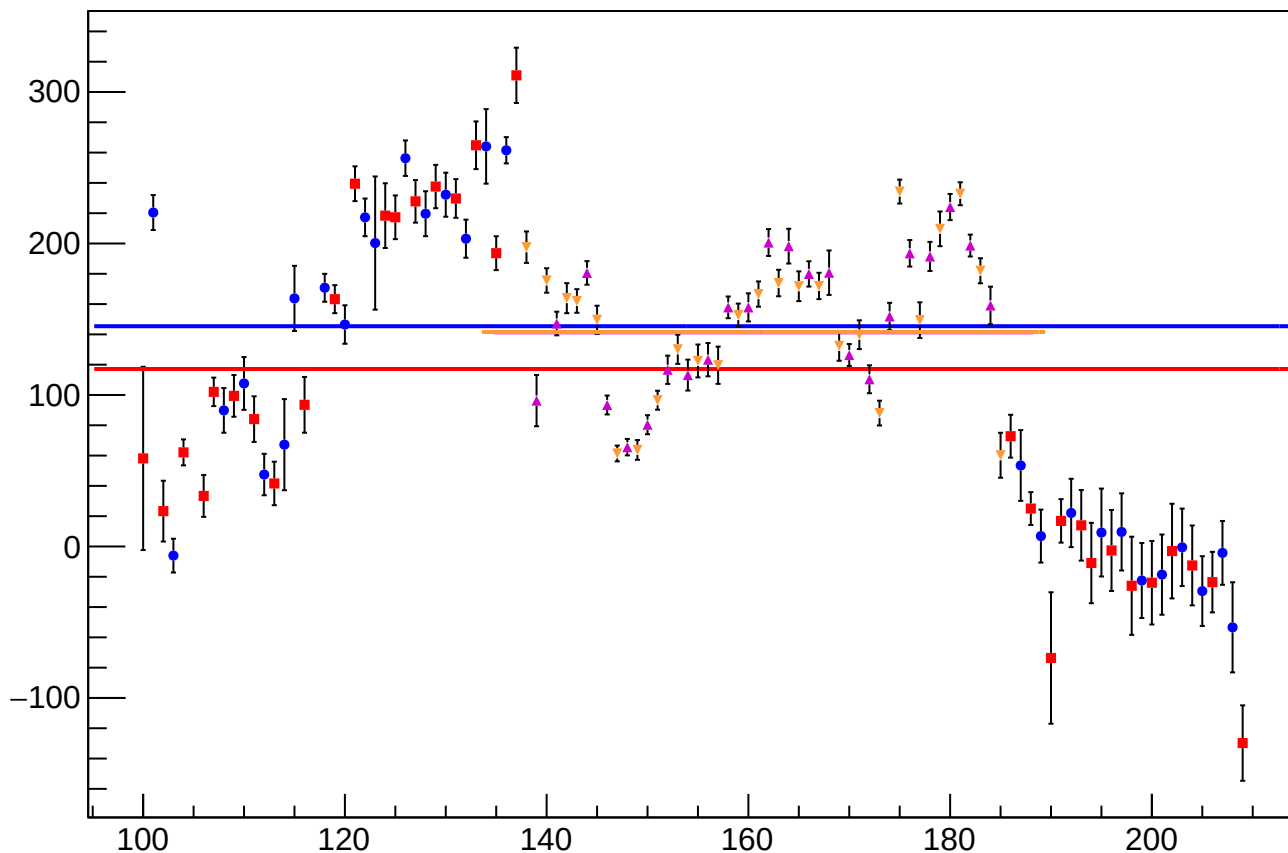
Right: 630.893 $\pm$ 1.908 χ^2 /NDF: 13844.6/59

In: 533.846 $\pm$ 1.674 χ^2 /NDF:7731.3/50

Out: 551.450 $\pm$ 1.527 χ^2 /NDF:14151.0/56

All: 543.454 $\pm$ 1.128 χ^2 /NDF: 21942.7/107

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 145.399 $\pm$ 2.954 χ^2 /NDF: 1149.9/27

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 117.153 $\pm$ 2.671 χ^2 /NDF: 1251.6/31

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

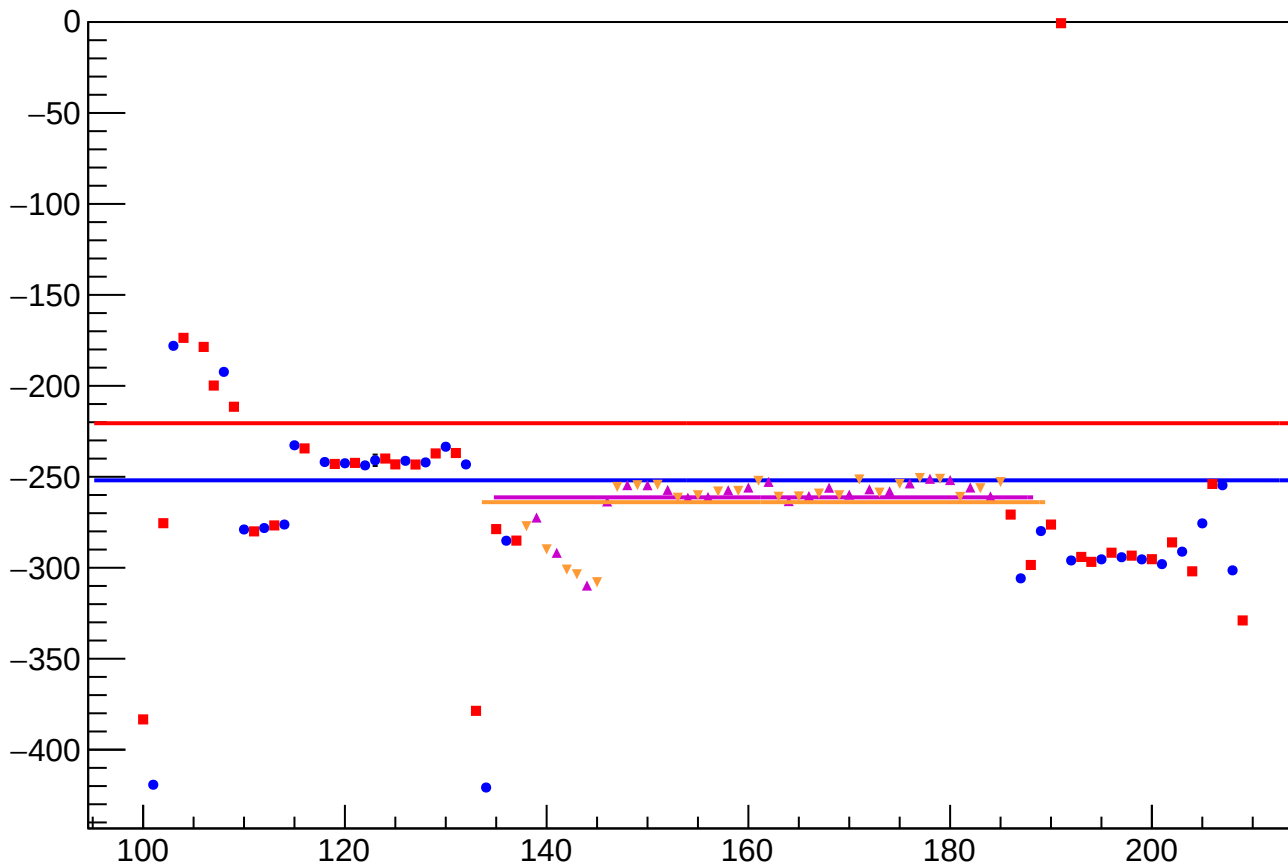
Right: 129.859 $\pm$ 1.981 χ^2 /NDF: 2451.9/59

In: 142.408 $\pm$ 1.504 χ^2 /NDF:1892.5/50

Out: 134.553 $\pm$ 1.433 χ^2 /NDF:2270.8/56

All: 138.290 $\pm$ 1.038 χ^2 /NDF: 4177.7/107

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -251.934 ± 0.137 $\chi^2/\text{NDF}: 196935.0/27$

Left Out: -263.943 ± 0.081 $\chi^2/\text{NDF}: 39085.0/24$

Right Out: -220.544 ± 0.122 $\chi^2/\text{NDF}: 501705.1/31$

Left In: -261.286 ± 0.082 $\chi^2/\text{NDF}: 23348.4/22$

Left: -262.627 ± 0.058 $\chi^2/\text{NDF}: 62963.4/47$

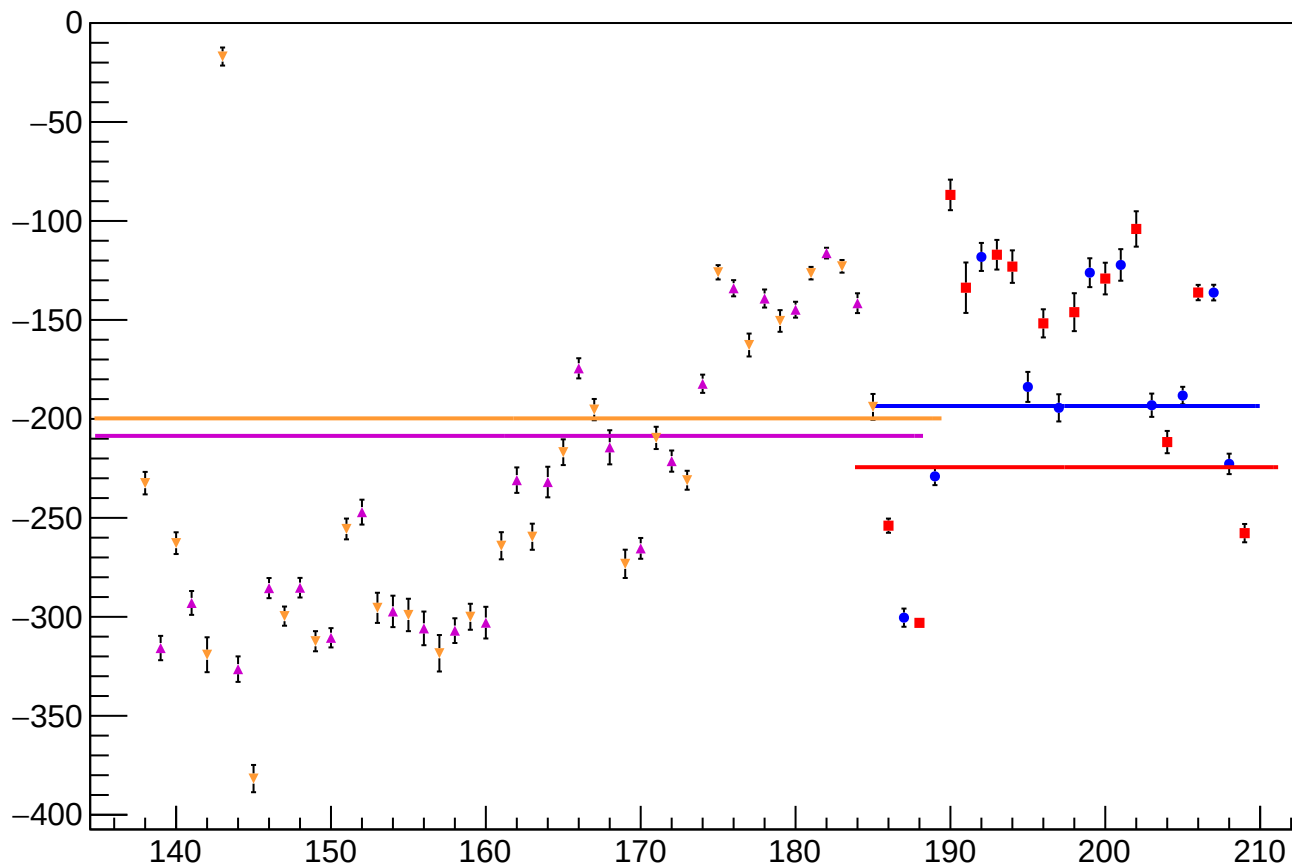
Right: -234.464 ± 0.091 $\chi^2/\text{NDF}: 727809.2/59$

In: -258.824 ± 0.070 $\chi^2/\text{NDF}: 223710.4/50$

Out: -250.669 ± 0.068 $\chi^2/\text{NDF}: 628065.9/56$

All: -254.589 ± 0.049 $\chi^2/\text{NDF}: 858753.5/107$

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -193.484 ± 1.637 $\chi^2/\text{NDF}: 1129.9/10$

Left Out: -199.741 ± 1.061 $\chi^2/\text{NDF}: 6361.5/24$

Right Out: -224.395 ± 1.394 $\chi^2/\text{NDF}: 2964.6/12$

Left In: -208.579 ± 1.082 $\chi^2/\text{NDF}: 4805.1/22$

Left: -204.073 ± 0.758 $\chi^2/\text{NDF}: 11200.6/47$

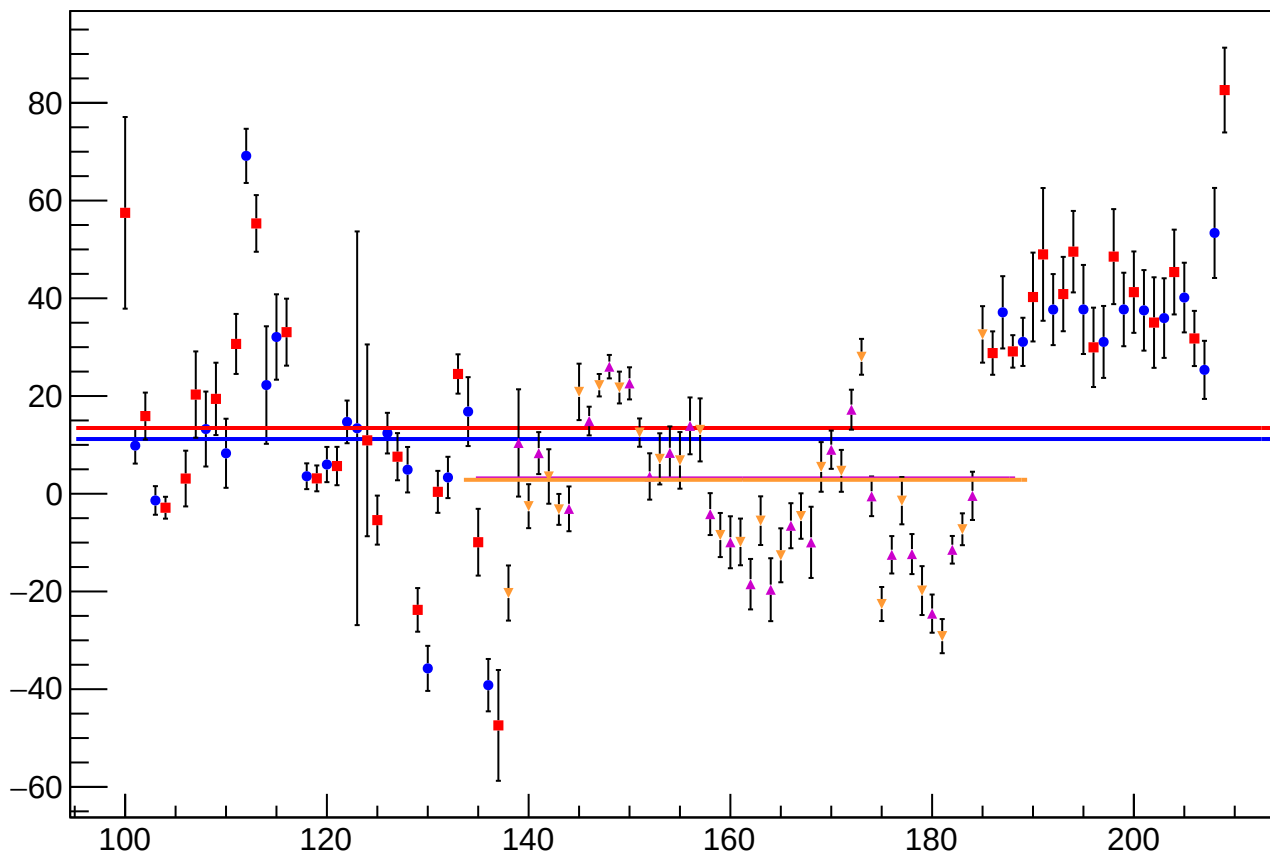
Right: -211.409 ± 1.061 $\chi^2/\text{NDF}: 4301.1/23$

In: -203.989 ± 0.903 $\chi^2/\text{NDF}: 5994.1/33$

Out: -208.789 ± 0.844 $\chi^2/\text{NDF}: 9524.2/37$

All: -206.550 ± 0.617 $\chi^2/\text{NDF}: 15533.4/71$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.199 $\pm$ 0.985 χ^2 /NDF: 476.3/27

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF: 419.8/24

Right Out: 13.456 $\pm$ 0.923 χ^2 /NDF: 495.5/31

Left In: 3.136 $\pm$ 0.857 χ^2 /NDF: 319.8/22

Left: 2.988 $\pm$ 0.592 χ^2 /NDF: 739.7/47

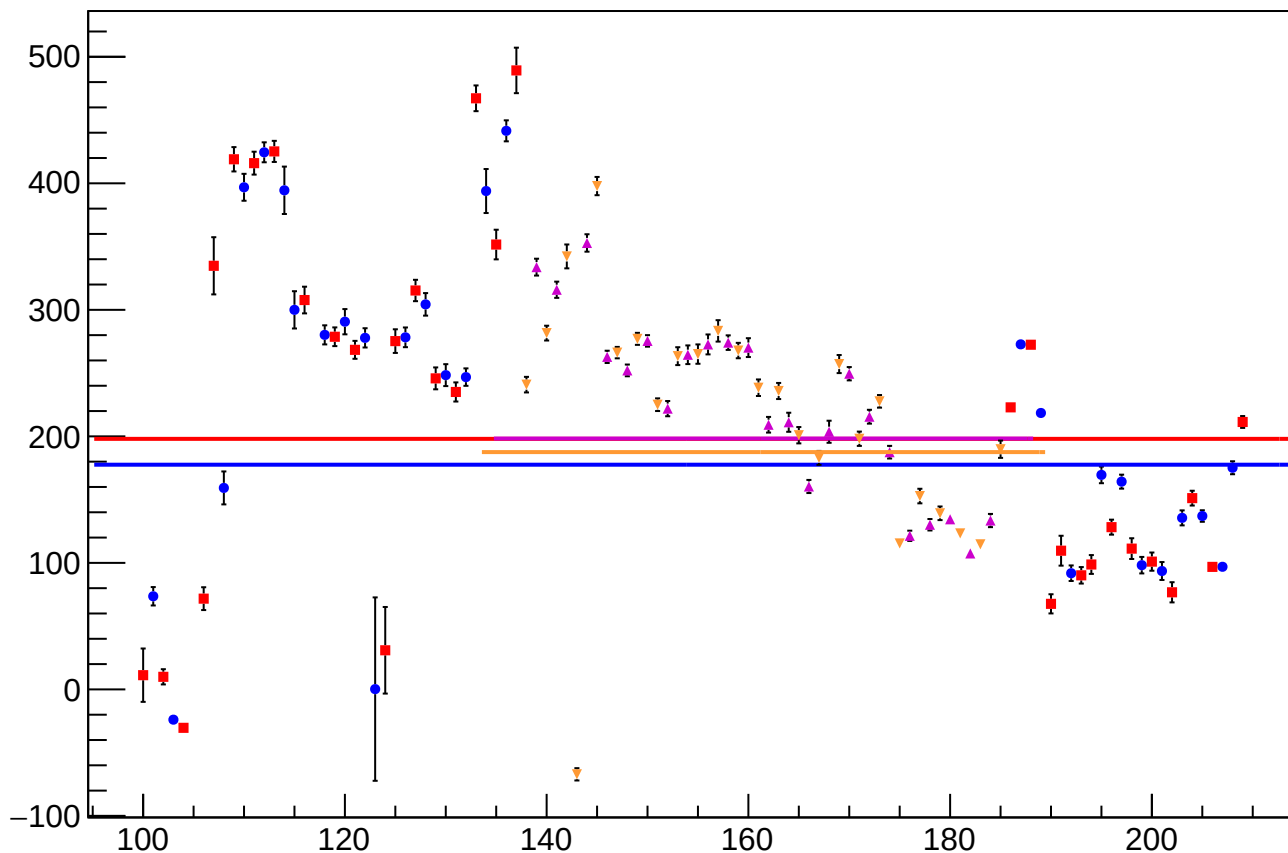
Right: 12.400 $\pm$ 0.673 χ^2 /NDF: 974.6/59

In: 6.610 $\pm$ 0.646 χ^2 /NDF: 834.2/50

Out: 7.529 $\pm$ 0.613 χ^2 /NDF: 989.1/56

All: 7.094 $\pm$ 0.445 χ^2 /NDF: 1824.4/107

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 177.596 $\pm$ 1.190 χ^2 /NDF: 8684.6/27

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 198.027 $\pm$ 1.021 χ^2 /NDF: 12139.4/31

Left In: 198.269 $\pm$ 1.082 χ^2 /NDF: 4515.8/22

Left: 192.839 $\pm$ 0.759 χ^2 /NDF: 11647.5/47

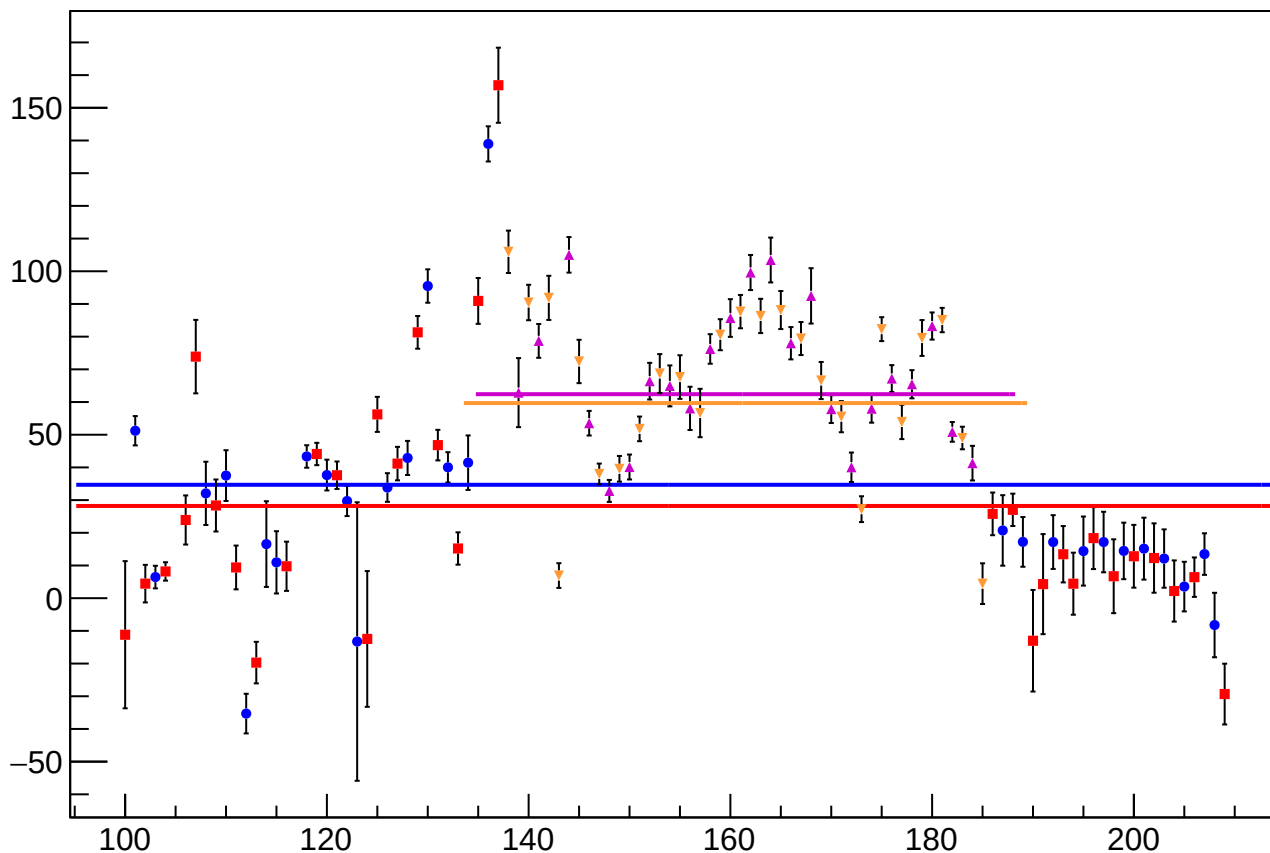
Right: 189.361 $\pm$ 0.775 χ^2 /NDF: 20993.8/59

In: 188.916 $\pm$ 0.800 χ^2 /NDF: 13365.6/50

Out: 193.020 $\pm$ 0.737 χ^2 /NDF: 19271.7/56

All: 191.136 $\pm$ 0.542 χ^2 /NDF: 32651.5/107

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 34.685 ± 1.150 $\chi^2/\text{NDF}: 834.2/27$

Left Out: 59.682 ± 0.941 $\chi^2/\text{NDF}: 757.6/24$

Right Out: 28.208 ± 1.102 $\chi^2/\text{NDF}: 651.3/31$

Left In: 62.400 ± 0.974 $\chi^2/\text{NDF}: 406.3/22$

Left: 60.993 ± 0.677 $\chi^2/\text{NDF}: 1167.9/47$

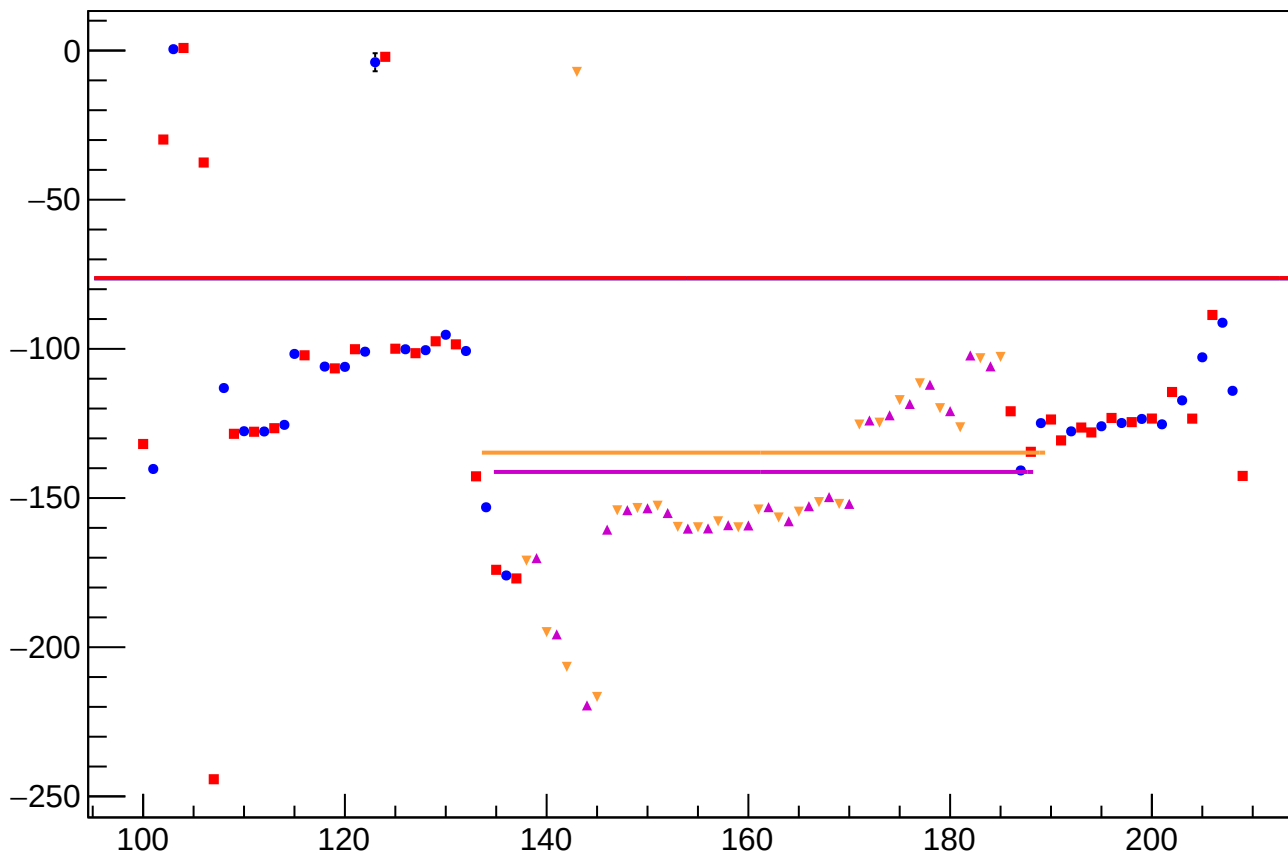
Right: 31.307 ± 0.796 $\chi^2/\text{NDF}: 1502.0/59$

In: 50.825 ± 0.743 $\chi^2/\text{NDF}: 1578.5/50$

Out: 46.410 ± 0.715 $\chi^2/\text{NDF}: 1880.9/56$

All: 48.533 ± 0.515 $\chi^2/\text{NDF}: 3477.8/107$

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -76.374 ± 0.051 $\chi^2/\text{NDF}: 1412592.8/27$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -76.271 ± 0.050 $\chi^2/\text{NDF}: 1418760.6/31$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

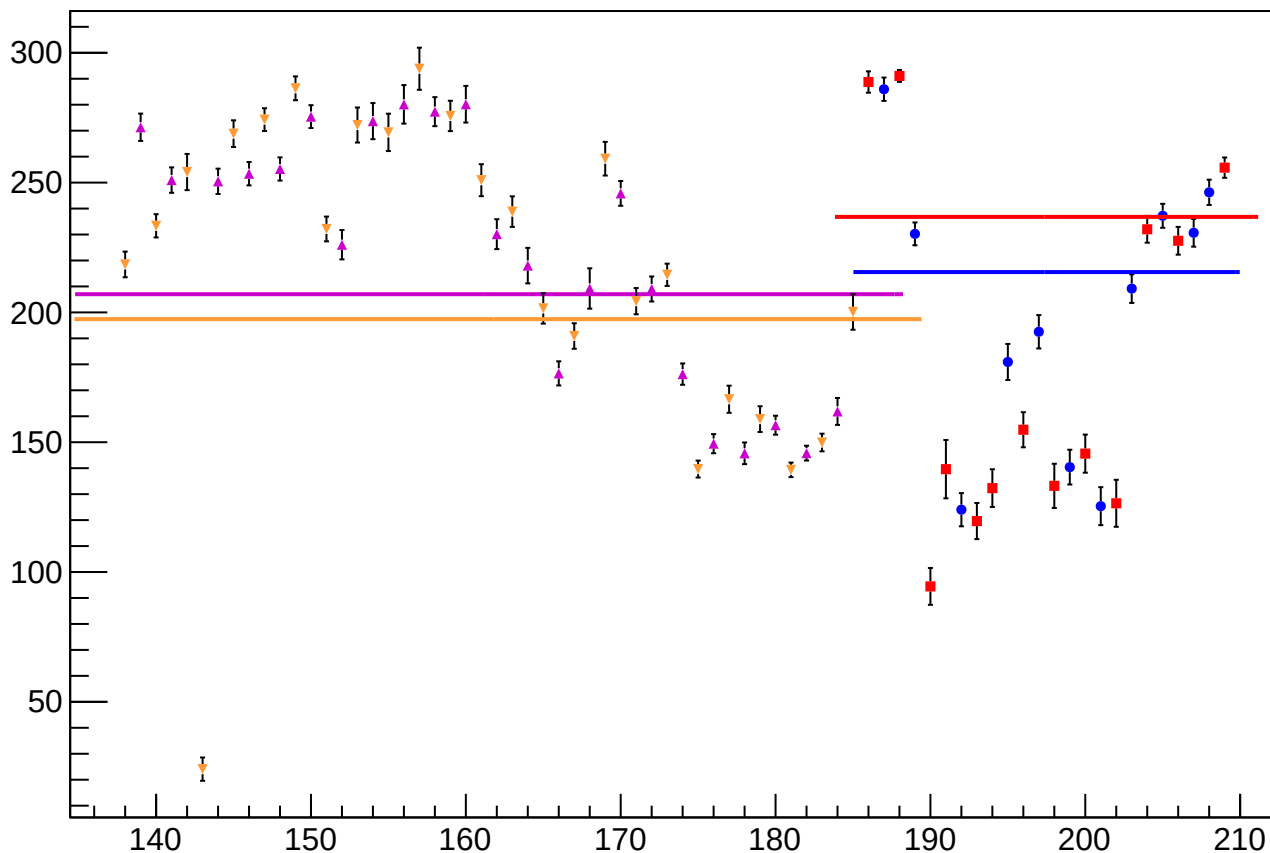
Right: -76.321 ± 0.036 $\chi^2/\text{NDF}: 2831355.5/59$

In: -112.861 ± 0.034 $\chi^2/\text{NDF}: 2657918.4/50$

Out: -108.631 ± 0.033 $\chi^2/\text{NDF}: 2996005.8/56$

All: -110.692 ± 0.024 $\chi^2/\text{NDF}: 5661880.2/10$

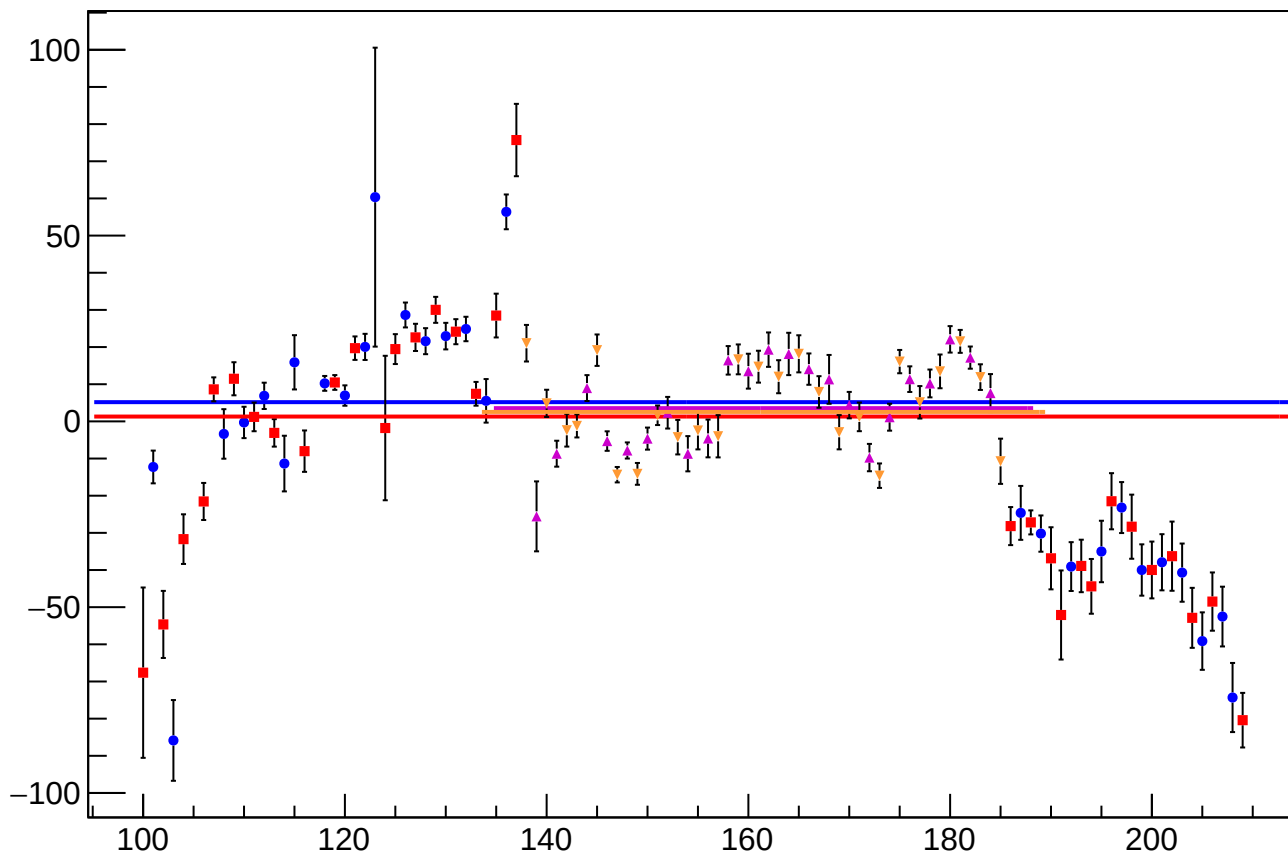
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 215.540 ± 1.647 $\chi^2/\text{NDF}: 848.1/10$
 Left Out: 197.408 ± 0.963 $\chi^2/\text{NDF}: 4384.2/24$
 Right Out: 236.797 ± 1.383 $\chi^2/\text{NDF}: 2320.5/12$
 Left In: 207.014 ± 0.990 $\chi^2/\text{NDF}: 2611.5/22$

Left: 202.077 ± 0.690 $\chi^2/\text{NDF}: 7044.1/47$
 Right: 228.009 ± 1.059 $\chi^2/\text{NDF}: 3266.3/23$
 In: 209.278 ± 0.849 $\chi^2/\text{NDF}: 3479.3/33$
 Out: 210.273 ± 0.790 $\chi^2/\text{NDF}: 7251.3/37$
 All: 209.811 ± 0.578 $\chi^2/\text{NDF}: 10731.3/71$

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.175 ± 0.859 χ^2/NDF : 833.1/27

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: 1.299 ± 0.817 χ^2/NDF : 911.4/31

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

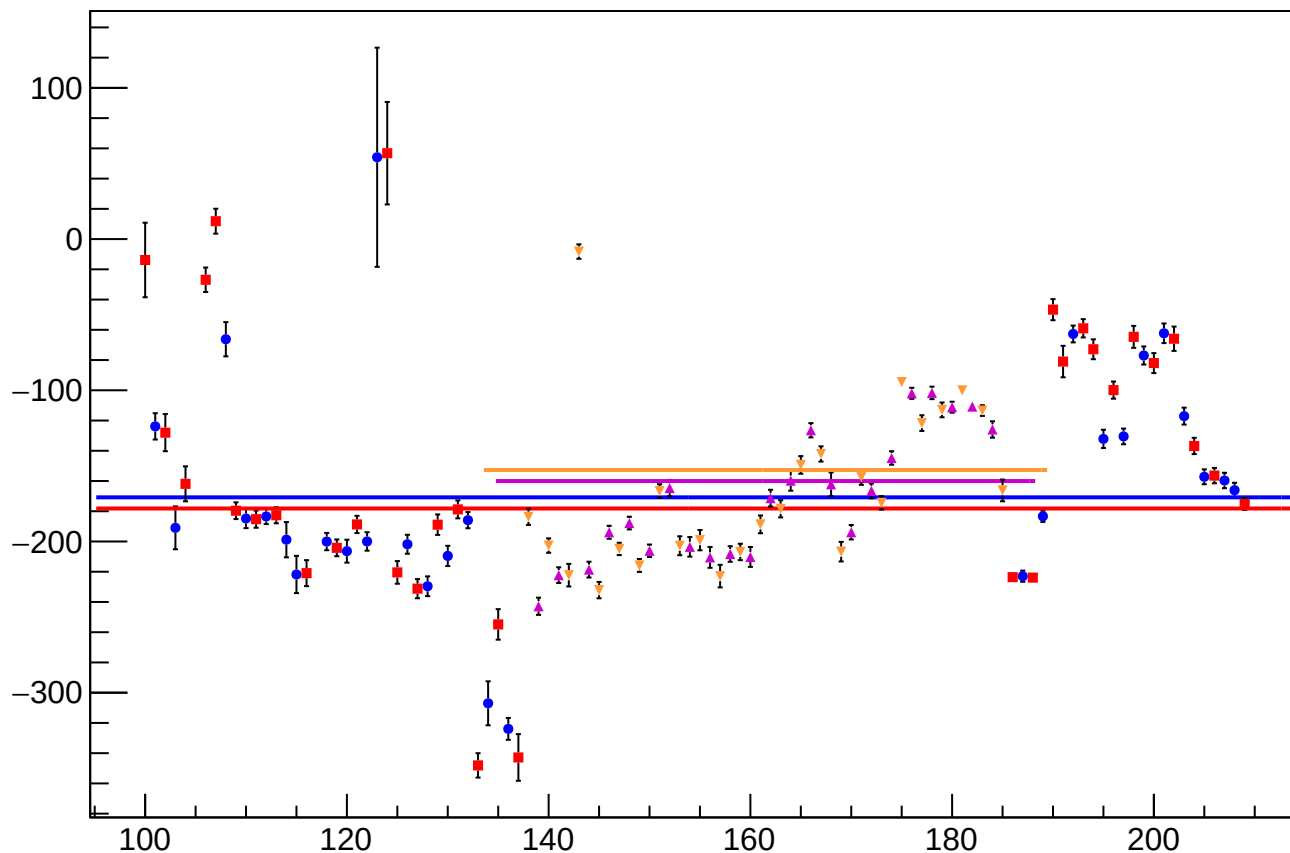
Right: 3.140 ± 0.592 χ^2/NDF : 1755.2/59

In: 4.283 ± 0.575 χ^2/NDF : 1027.1/50

Out: 1.984 ± 0.549 χ^2/NDF : 1188.1/56

All: 3.080 ± 0.397 χ^2/NDF : 2223.5/107

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -170.802 ± 1.150 $\chi^2/\text{NDF}: 2231.9/27$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -178.182 ± 0.981 $\chi^2/\text{NDF}: 4578.9/31$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

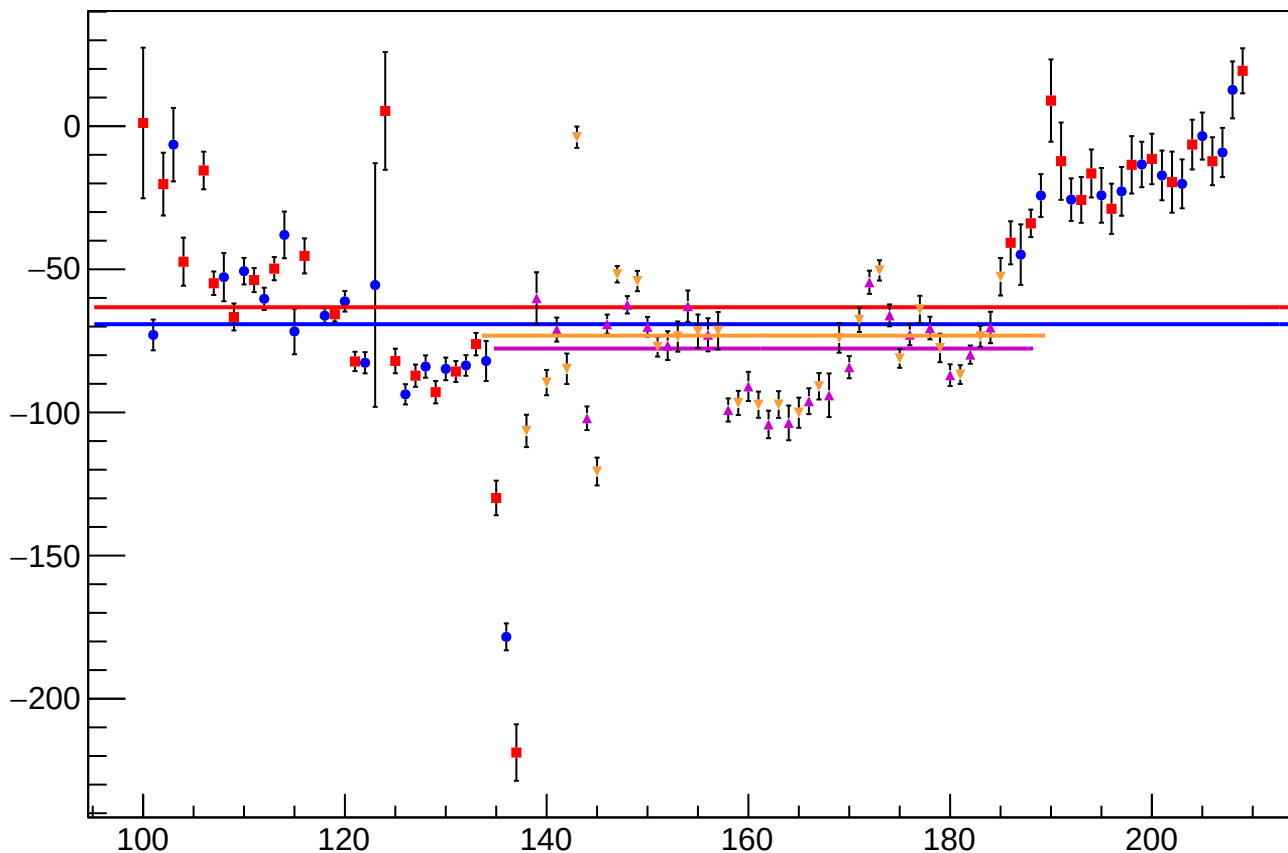
Right: -175.073 ± 0.746 $\chi^2/\text{NDF}: 6834.6/59$

In: -164.604 ± 0.750 $\chi^2/\text{NDF}: 4306.8/50$

Out: -165.277 ± 0.689 $\chi^2/\text{NDF}: 7998.0/56$

All: -164.969 ± 0.507 $\chi^2/\text{NDF}: 12305.2/107$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -69.173 ± 0.999 χ^2/NDF : 1147.2/27

Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24

Right Out: -63.253 ± 0.958 χ^2/NDF : 1103.1/31

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

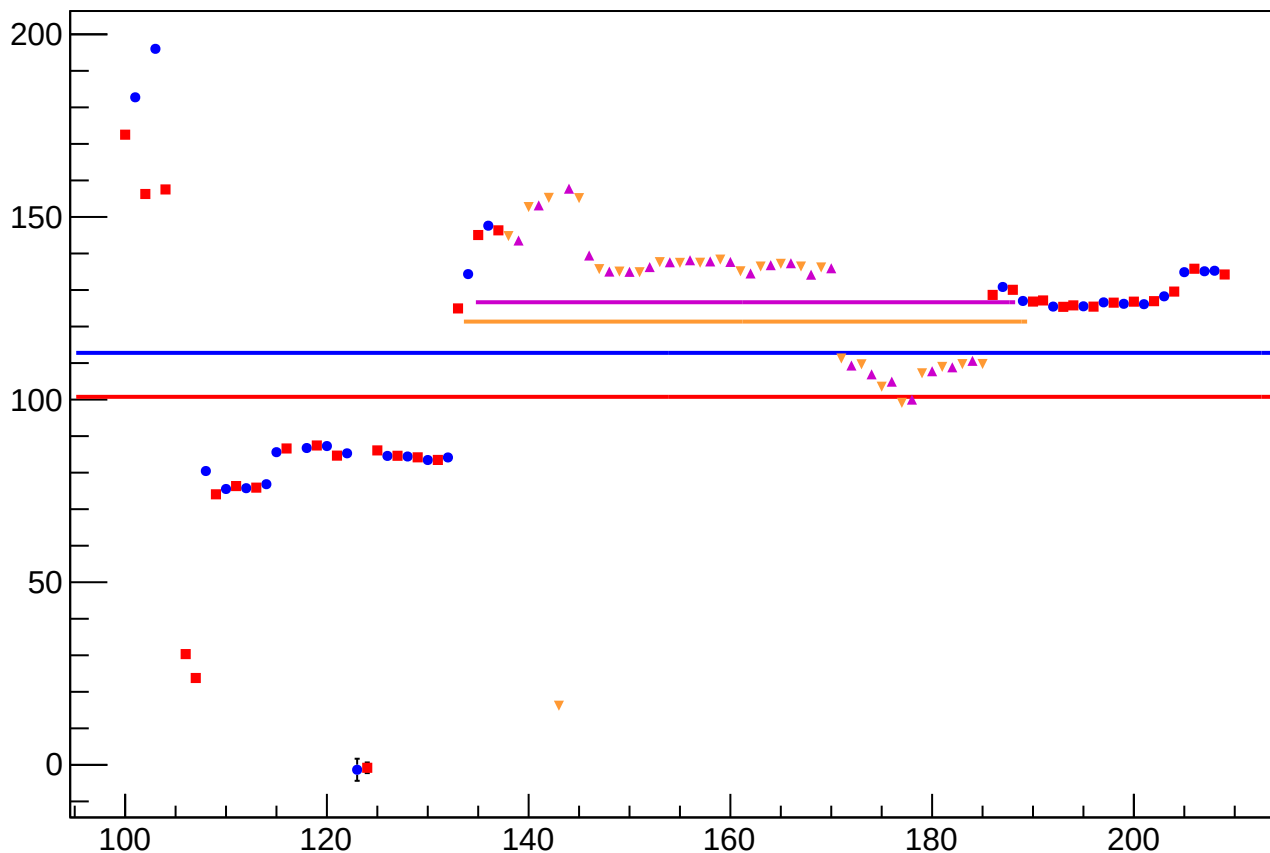
Right: -66.088 ± 0.691 χ^2/NDF : 2268.6/59

In: -73.948 ± 0.662 χ^2/NDF : 1436.2/50

Out: -68.791 ± 0.636 χ^2/NDF : 1951.5/56

All: -71.269 ± 0.459 χ^2/NDF : 3419.3/107

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.794 $\pm$ 0.056 χ^2 /NDF: 318998.9/27

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 100.758 $\pm$ 0.051 χ^2 /NDF: 589461.5/31

Left In: 126.653 $\pm$ 0.041 χ^2 /NDF: 163046.1/22

Left: 123.954 $\pm$ 0.029 χ^2 /NDF: 653496.6/47

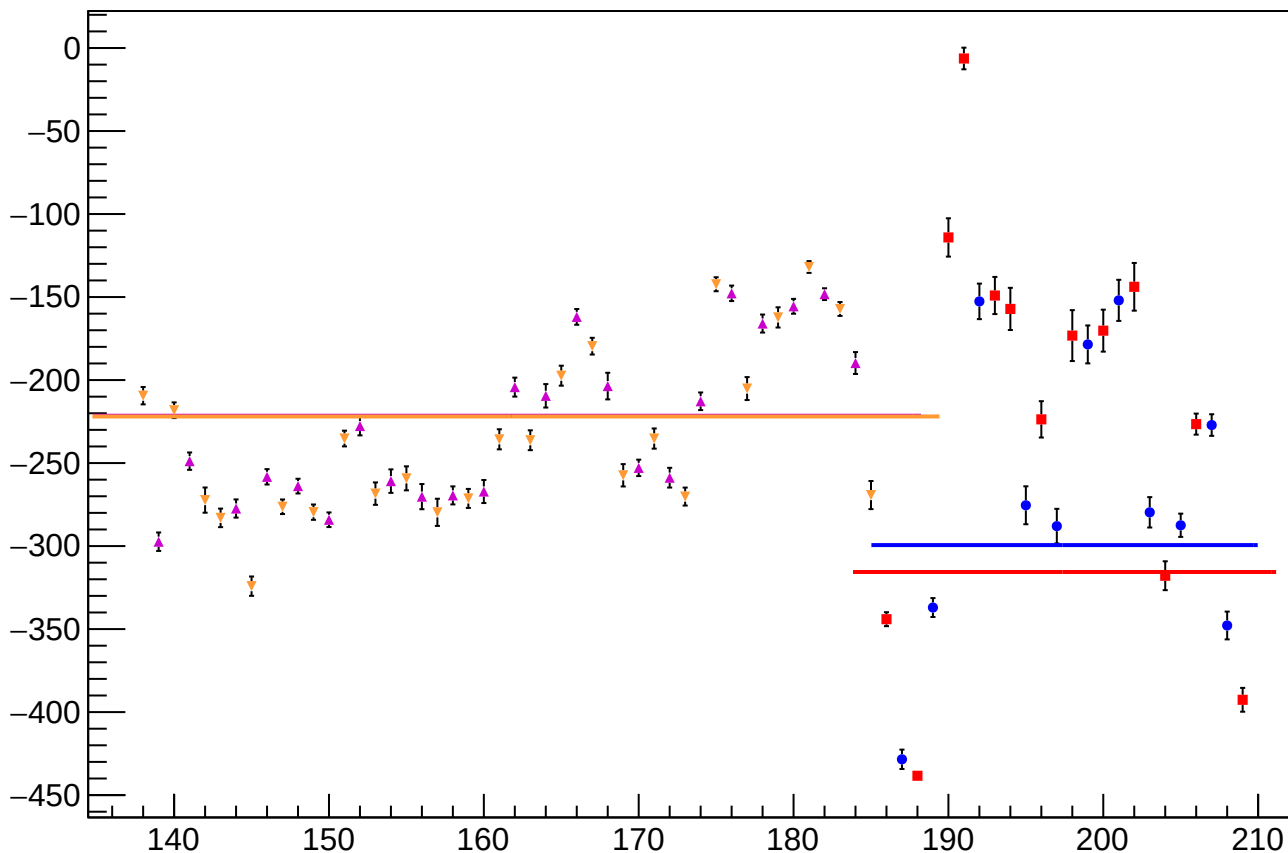
Right: 106.202 $\pm$ 0.038 χ^2 /NDF: 933819.8/59

In: 121.798 $\pm$ 0.033 χ^2 /NDF: 521925.8/50

Out: 113.405 $\pm$ 0.032 χ^2 /NDF: 1172259.7/56

All: 117.403 $\pm$ 0.023 χ^2 /NDF: 1727832.8/107

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -299.403 ± 2.423 $\chi^2/\text{NDF}: 1145.3/10$

Left Out: -221.934 ± 1.084 $\chi^2/\text{NDF}: 2578.4/24$

Right Out: -315.608 ± 1.852 $\chi^2/\text{NDF}: 5357.8/12$

Left In: -221.483 ± 1.102 $\chi^2/\text{NDF}: 2149.8/22$

Left: -221.712 ± 0.773 $\chi^2/\text{NDF}: 4728.2/47$

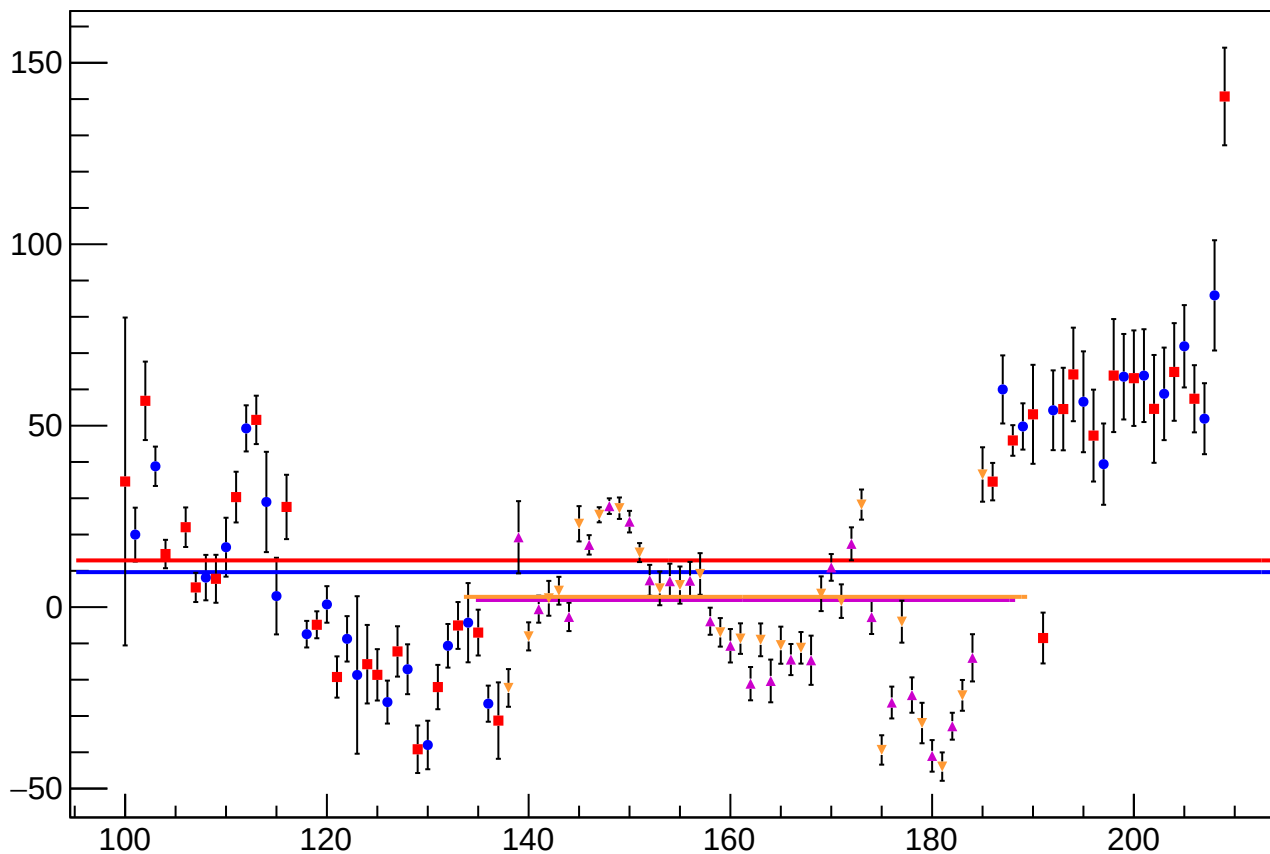
Right: -309.631 ± 1.472 $\chi^2/\text{NDF}: 6531.4/23$

In: -234.841 ± 1.003 $\chi^2/\text{NDF}: 4151.9/33$

Out: -245.845 ± 0.936 $\chi^2/\text{NDF}: 9840.8/37$

All: -240.725 ± 0.684 $\chi^2/\text{NDF}: 14057.0/71$

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.643 ± 1.385 $\chi^2/\text{NDF}: 507.8/27$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 12.873 ± 1.207 $\chi^2/\text{NDF}: 587.7/31$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

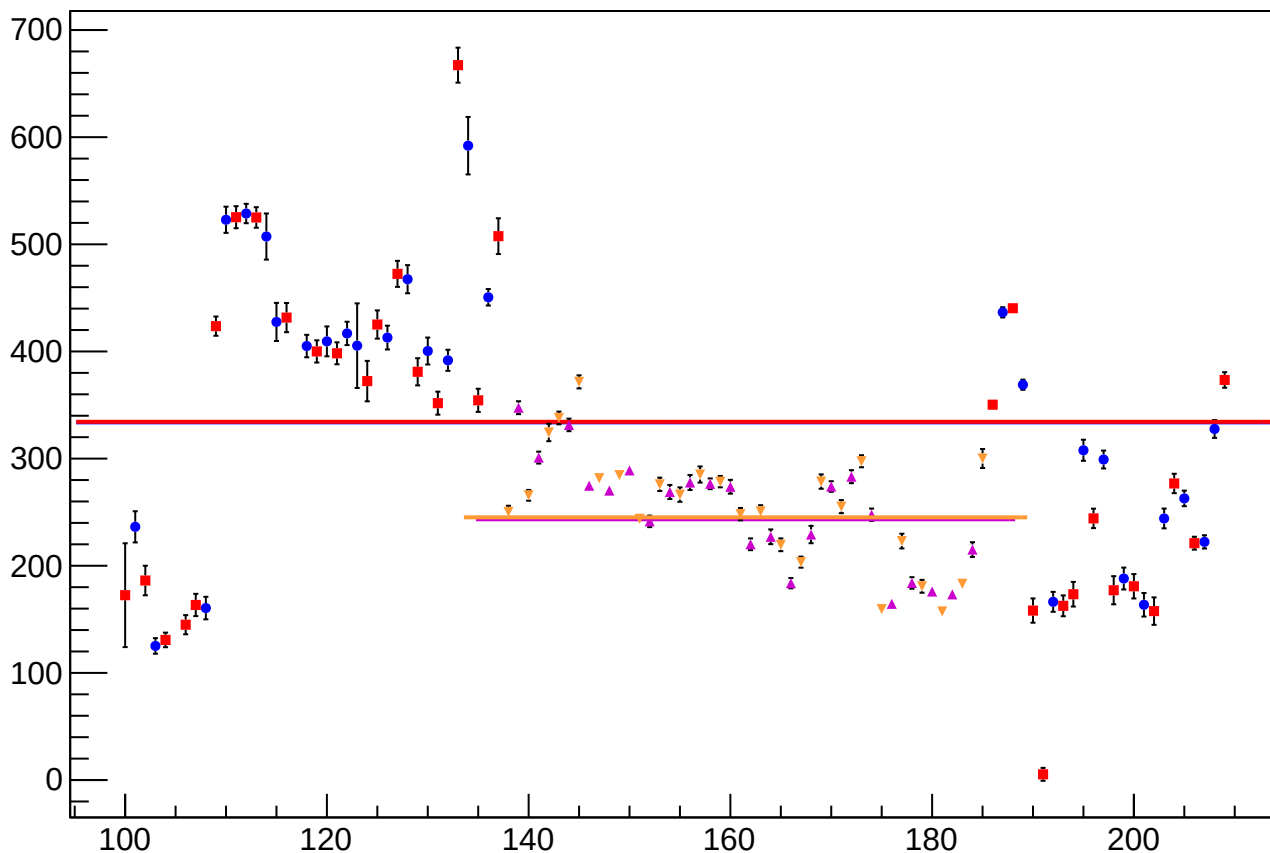
Right: 11.479 ± 0.910 $\chi^2/\text{NDF}: 1098.5/59$

In: 4.014 ± 0.715 $\chi^2/\text{NDF}: 1119.4/50$

Out: 5.933 ± 0.671 $\chi^2/\text{NDF}: 1322.4/56$

All: 5.035 ± 0.489 $\chi^2/\text{NDF}: 2445.6/107$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 333.840 $\pm$ 1.709 χ^2 /NDF: 4436.8/27

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 334.356 $\pm$ 1.345 χ^2 /NDF: 10097.2/31

Left In: 243.366 $\pm$ 1.094 χ^2 /NDF:2236.7/22

Left: 244.282 $\pm$ 0.769 χ^2 /NDF: 4835.5/47

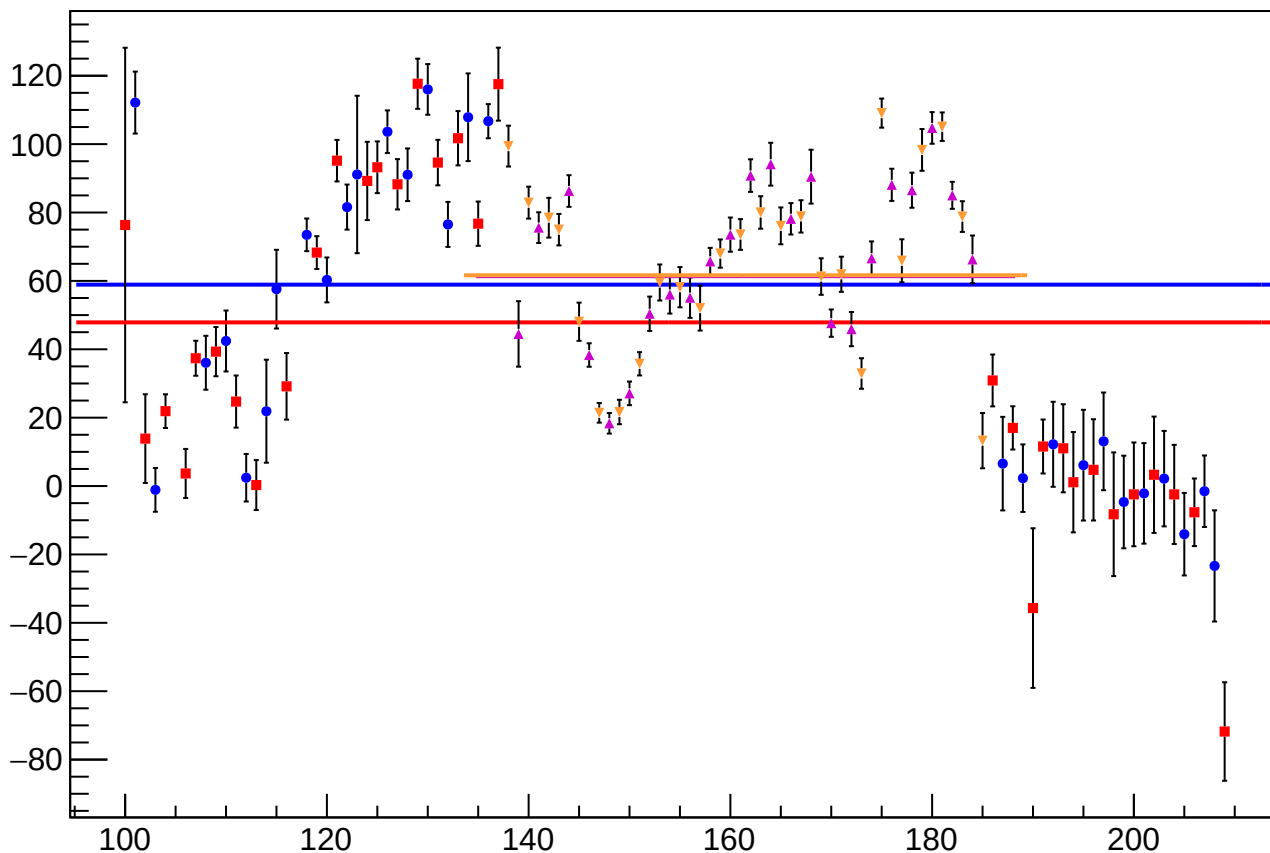
Right: 334.159 $\pm$ 1.057 χ^2 /NDF: 14534.0/59

In: 269.650 $\pm$ 0.921 χ^2 /NDF:8661.8/50

Out: 280.214 $\pm$ 0.843 χ^2 /NDF:15363.1/56

All: 275.399 $\pm$ 0.622 χ^2 /NDF: 24096.4/107

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 58.902 $\pm$ 1.610 χ^2 /NDF: 704.9/27

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF:871.5/24

Right Out: 47.867 $\pm$ 1.442 χ^2 /NDF: 769.9/31

Left In: 61.375 $\pm$ 0.961 χ^2 /NDF:699.7/22

Left: 61.515 $\pm$ 0.671 χ^2 /NDF: 1571.3/47

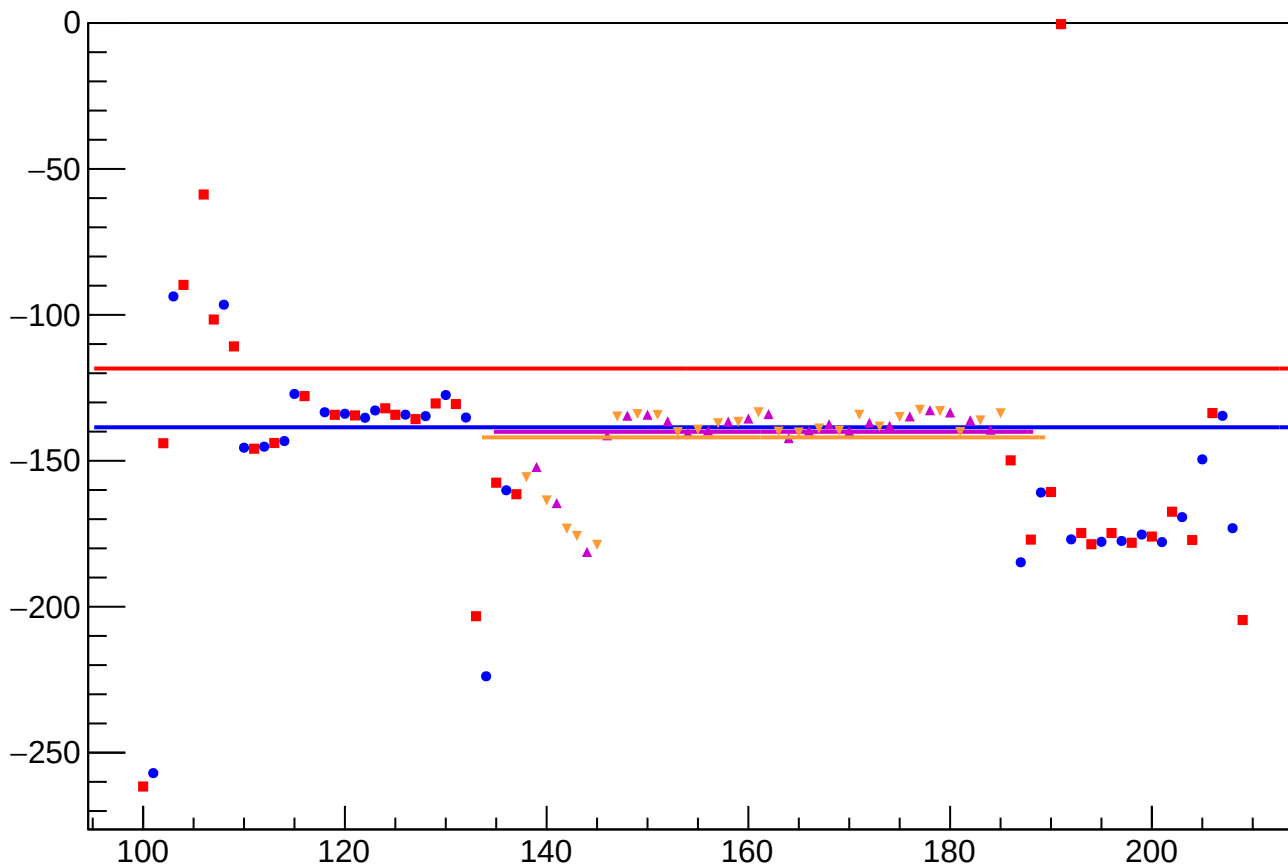
Right: 52.778 $\pm$ 1.074 χ^2 /NDF: 1500.8/59

In: 60.726 $\pm$ 0.825 χ^2 /NDF:1406.3/50

Out: 57.561 $\pm$ 0.785 χ^2 /NDF:1705.7/56

All: 59.065 $\pm$ 0.569 χ^2 /NDF: 3119.7/107

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -138.516 ± 0.076 $\chi^2/\text{NDF}: 235858.2/27$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -118.380 ± 0.067 $\chi^2/\text{NDF}: 625118.9/31$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

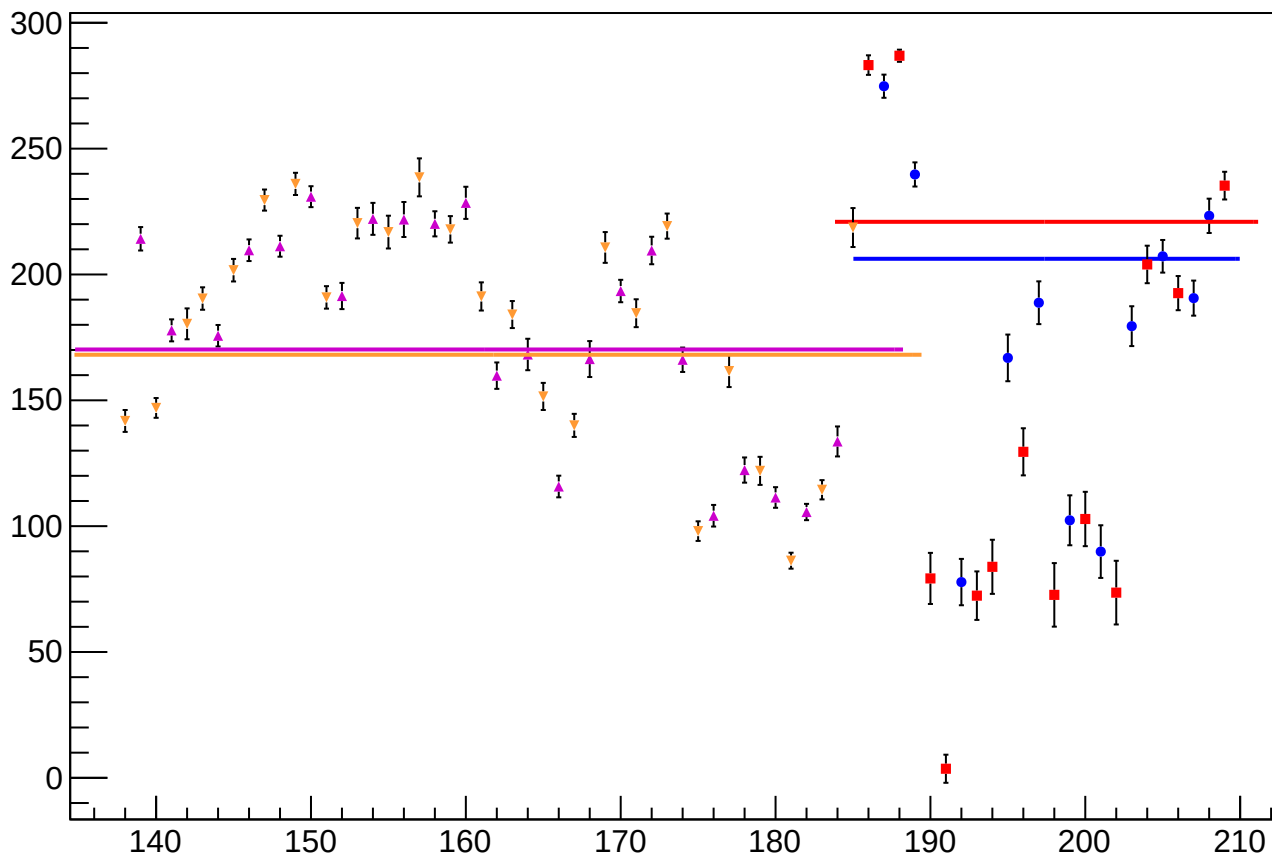
Right: -127.198 ± 0.050 $\chi^2/\text{NDF}: 900384.4/59$

In: -139.666 ± 0.039 $\chi^2/\text{NDF}: 284197.5/50$

Out: -134.722 ± 0.037 $\chi^2/\text{NDF}: 790925.9/56$

All: -137.095 ± 0.027 $\chi^2/\text{NDF}: 1083597.8/10$

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 206.235 $\pm$ 2.089 χ^2 /NDF: 743.8/10

Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24

Right Out: 220.924 $\pm$ 1.572 χ^2 /NDF: 3633.4/12

Left In: 170.198 $\pm$ 0.995 χ^2 /NDF:2024.5/22

Left: 169.125 $\pm$ 0.695 χ^2 /NDF: 4495.5/47

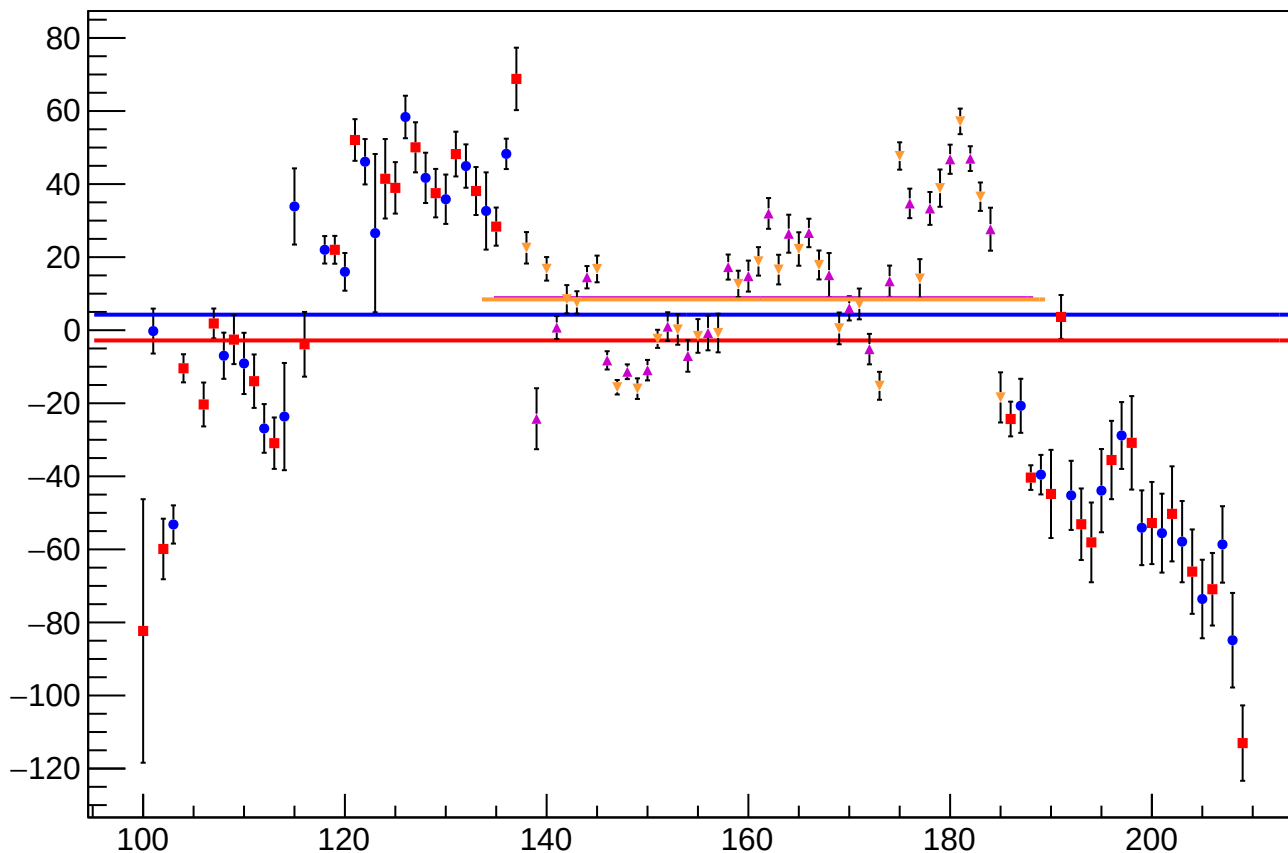
Right: 215.615 $\pm$ 1.256 χ^2 /NDF: 4408.8/23

In: 176.864 $\pm$ 0.899 χ^2 /NDF:3010.7/33

Out: 182.678 $\pm$ 0.826 χ^2 /NDF:6919.8/37

All: 180.017 $\pm$ 0.608 χ^2 /NDF: 9953.2/71

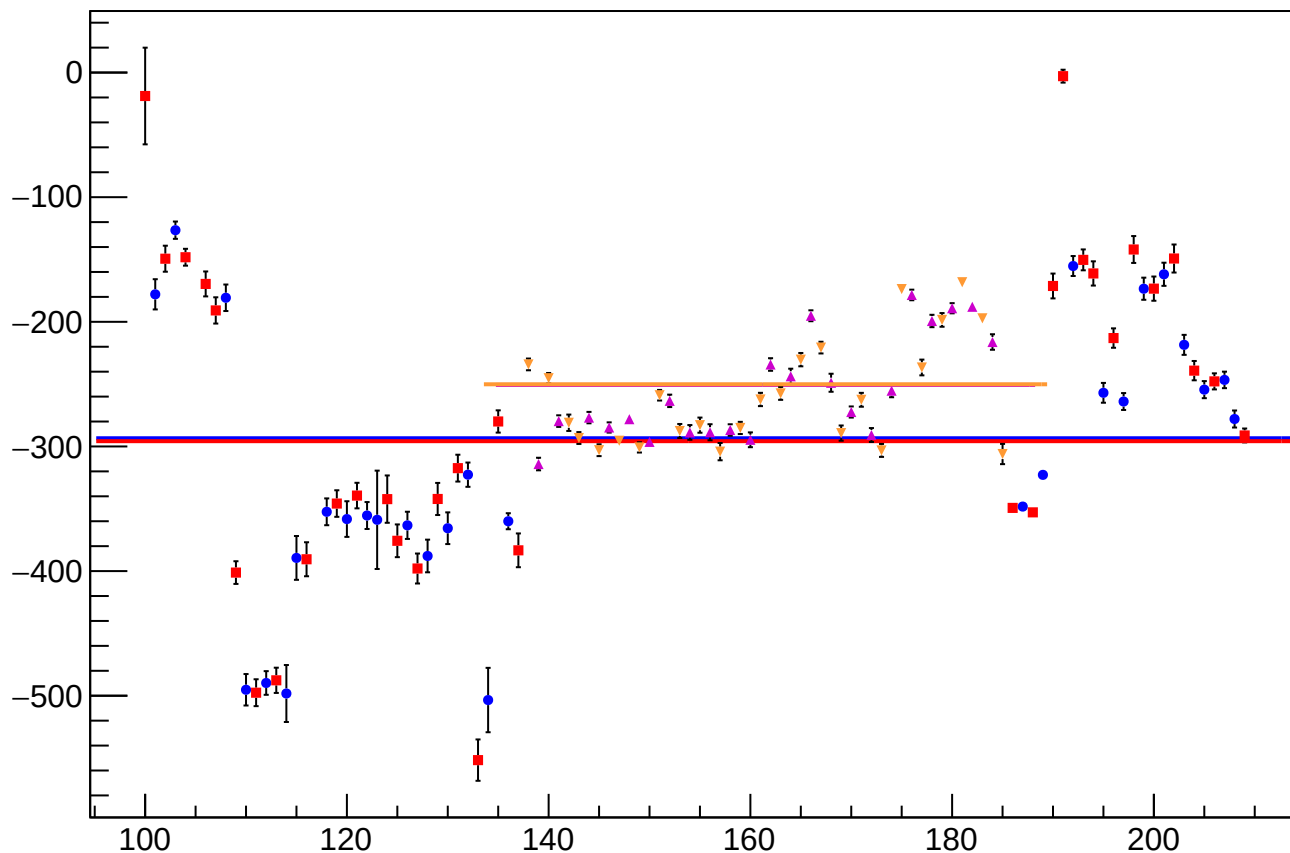
reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.250 $\pm$ 1.318 χ^2 /NDF: 903.9/27
 Left Out: 8.436 $\pm$ 0.728 χ^2 /NDF: 752.0/24
 Right Out: -2.802 $\pm$ 1.149 χ^2 /NDF: 1029.6/31
 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: 0.243 $\pm$ 0.866 χ^2 /NDF: 1949.9/59
 In: 7.645 $\pm$ 0.657 χ^2 /NDF: 1539.6/50
 Out: 5.215 $\pm$ 0.615 χ^2 /NDF: 1850.0/56
 All: 6.349 $\pm$ 0.449 χ^2 /NDF: 3396.9/107

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -293.422+/-1.524 χ^2/NDF : 3131.1/27

Left Out: -250.119+/-0.972 χ^2/NDF : 2246.9/24

Right Out: -295.767+/-1.181 χ^2/NDF : 8110.6/31

Left In: -250.628+/-0.990 χ^2/NDF : 1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

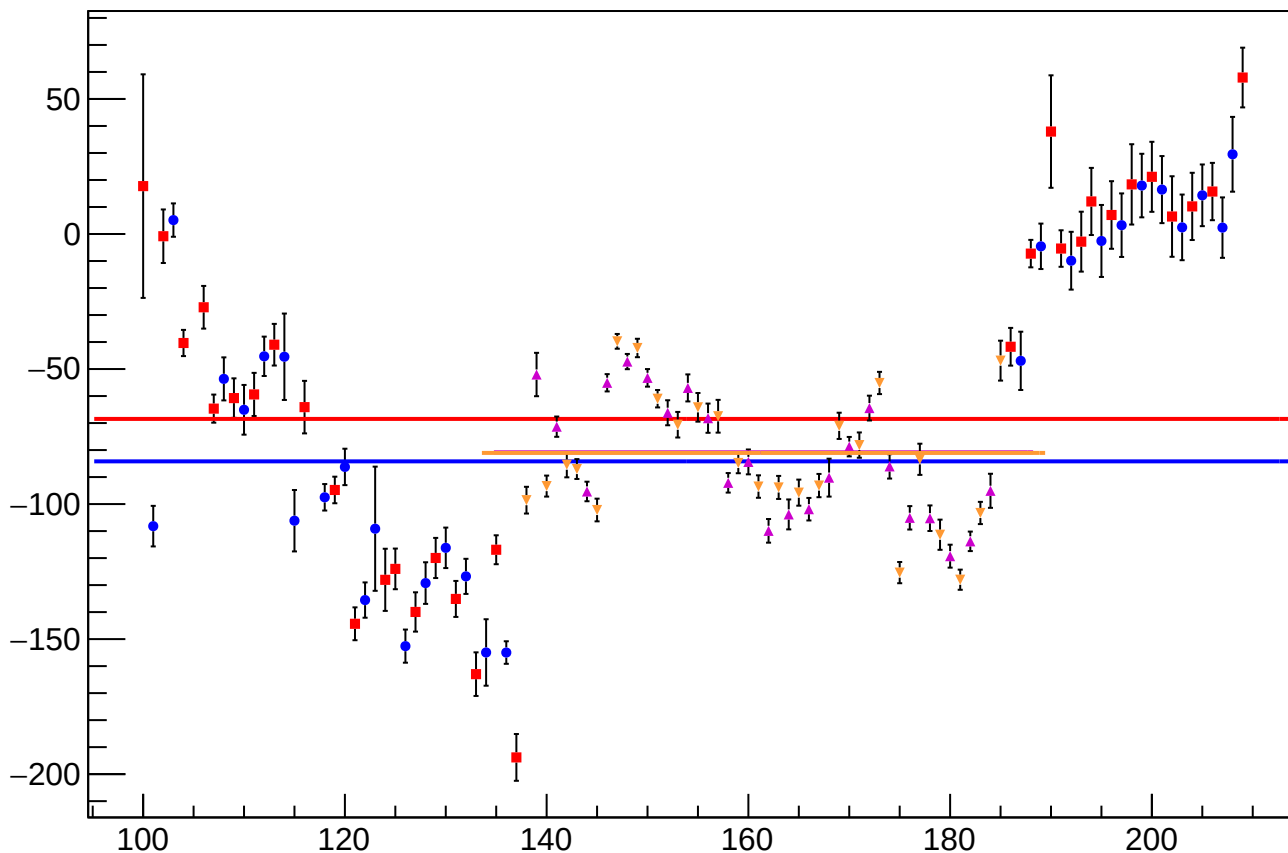
Right: -294.887+/-0.934 χ^2/NDF : 11243.1/59

In: -263.331+/-0.830 χ^2/NDF : 5622.4/50

Out: -268.556+/-0.751 χ^2/NDF : 11247.8/56

All: -266.206+/-0.557 χ^2/NDF : 16891.9/107

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -84.185 ± 1.533 $\chi^2/\text{NDF}: 1523.1/27$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -68.469 ± 1.377 $\chi^2/\text{NDF}: 1792.7/31$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

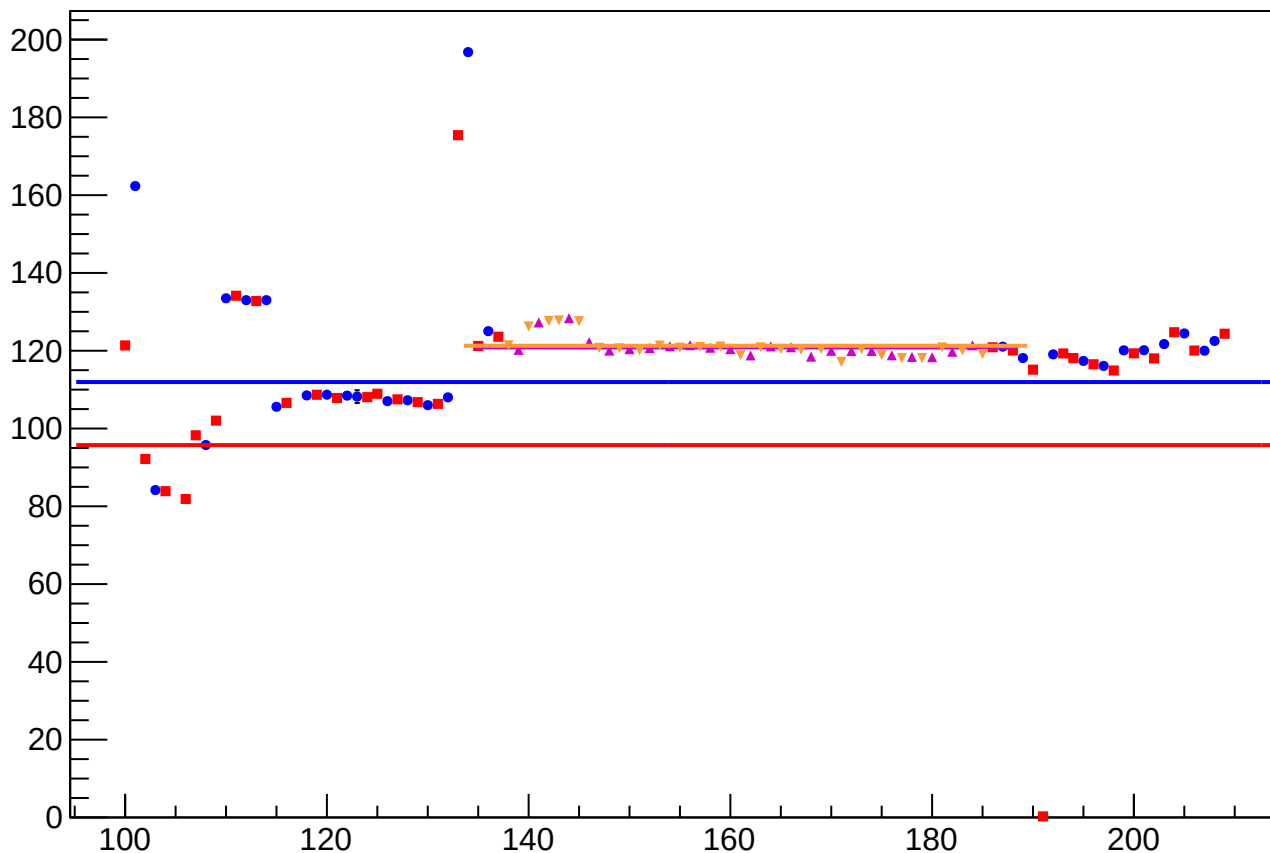
Right: -75.486 ± 1.024 $\chi^2/\text{NDF}: 3374.0/59$

In: -81.652 ± 0.758 $\chi^2/\text{NDF}: 2219.9/50$

Out: -77.625 ± 0.719 $\chi^2/\text{NDF}: 2766.6/56$

All: -79.533 ± 0.522 $\chi^2/\text{NDF}: 5001.3/107$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 111.948 $\pm$ 0.071 χ^2 /NDF: 78937.9/27

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 95.736 $\pm$ 0.062 χ^2 /NDF: 366565.1/31

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

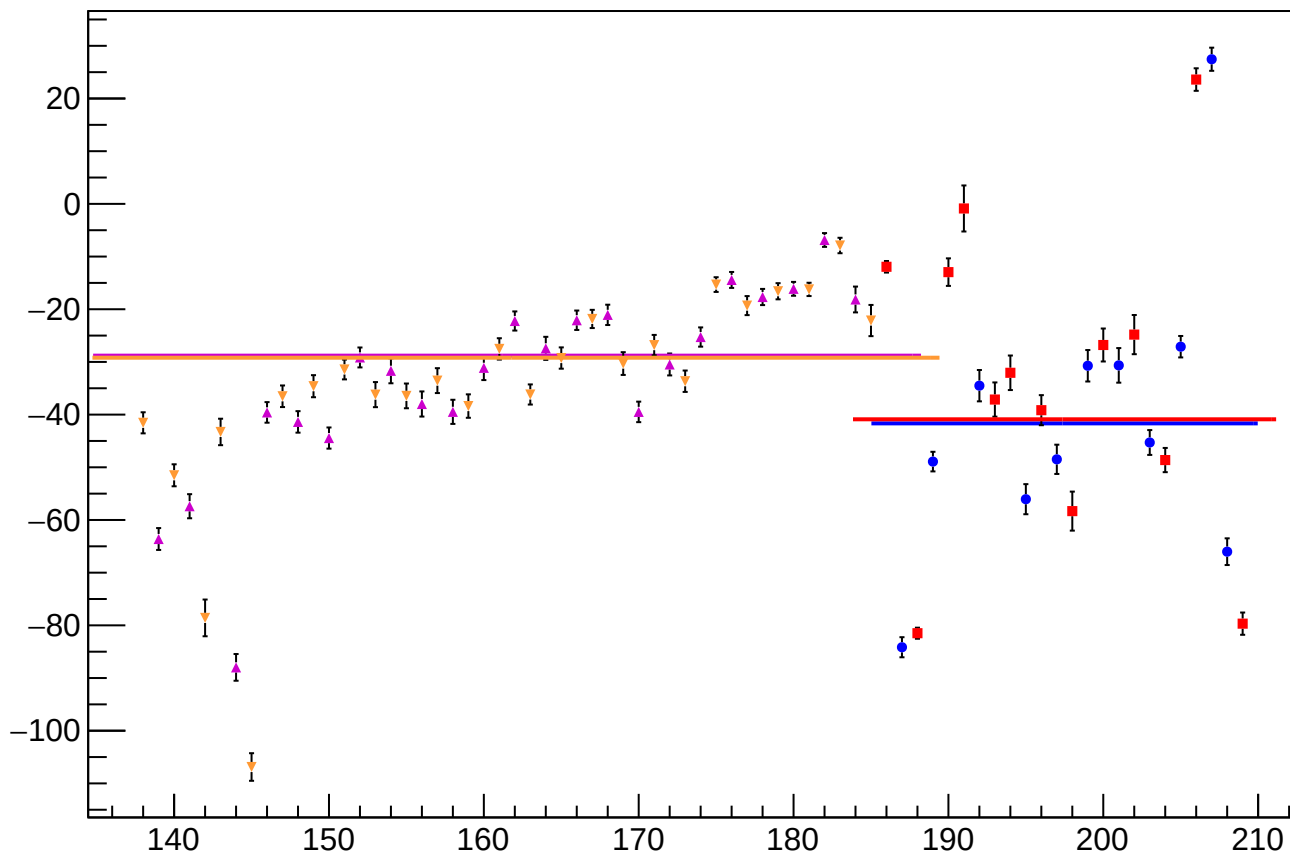
Right: 102.799 $\pm$ 0.047 χ^2 /NDF: 475278.7/59

In: 118.624 $\pm$ 0.035 χ^2 /NDF: 94225.3/50

Out: 113.750 $\pm$ 0.034 χ^2 /NDF: 491166.0/56

All: 116.076 $\pm$ 0.024 χ^2 /NDF: 595384.0/107

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -41.663 ± 0.722 $\chi^2/\text{NDF}: 1709.8/10$

Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$

Right Out: -40.890 ± 0.566 $\chi^2/\text{NDF}: 3719.3/12$

Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$

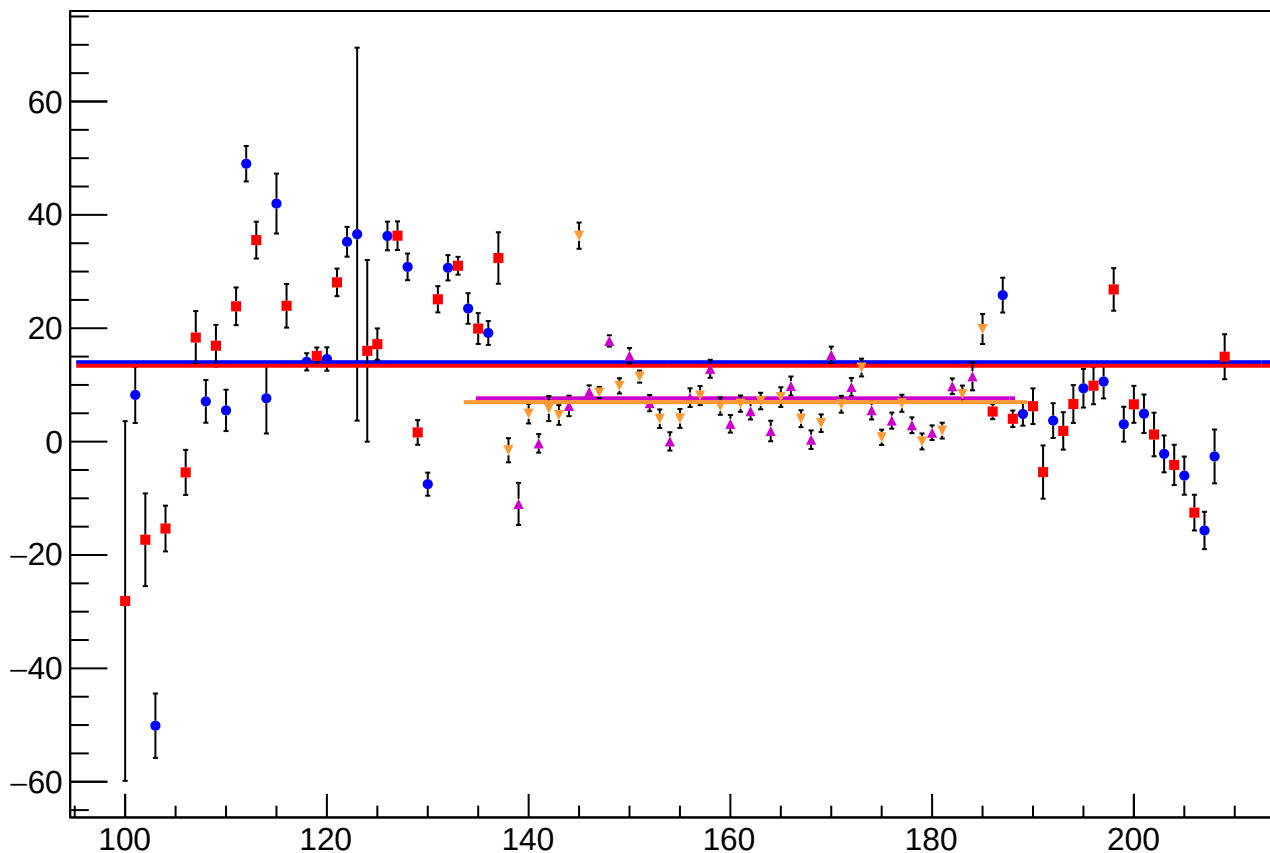
Right: -41.184 ± 0.445 $\chi^2/\text{NDF}: 5429.8/23$

In: -31.775 ± 0.347 $\chi^2/\text{NDF}: 3717.5/33$

Out: -32.948 ± 0.320 $\chi^2/\text{NDF}: 5891.0/37$

All: -32.408 ± 0.235 $\chi^2/\text{NDF}: 9614.7/71$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.012 $\pm$ 0.535 χ^2 /NDF: 894.7/27

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 13.387 $\pm$ 0.480 χ^2 /NDF: 717.0/31

Left In: 7.638 $\pm$ 0.313 χ^2 /NDF:337.7/22

Left: 7.287 $\pm$ 0.218 χ^2 /NDF: 661.5/47

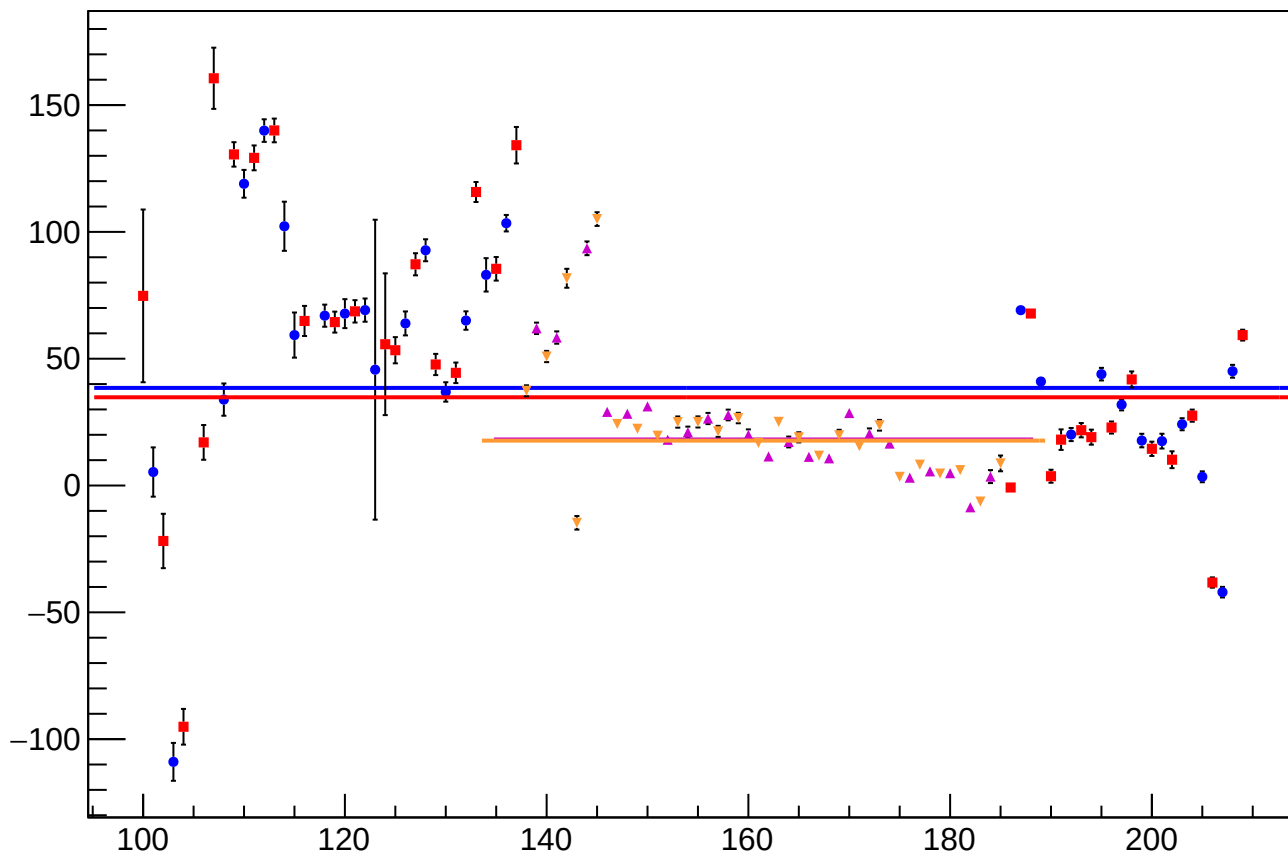
Right: 13.666 $\pm$ 0.357 χ^2 /NDF: 1612.5/59

In: 9.269 $\pm$ 0.270 χ^2 /NDF:1338.1/50

Out: 8.790 $\pm$ 0.256 χ^2 /NDF:1166.5/56

All: 9.016 $\pm$ 0.186 χ^2 /NDF: 2506.3/107

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 38.489 $\pm$ 0.576 χ^2 /NDF: 4341.4/27

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 34.789 $\pm$ 0.450 χ^2 /NDF: 7747.8/31

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

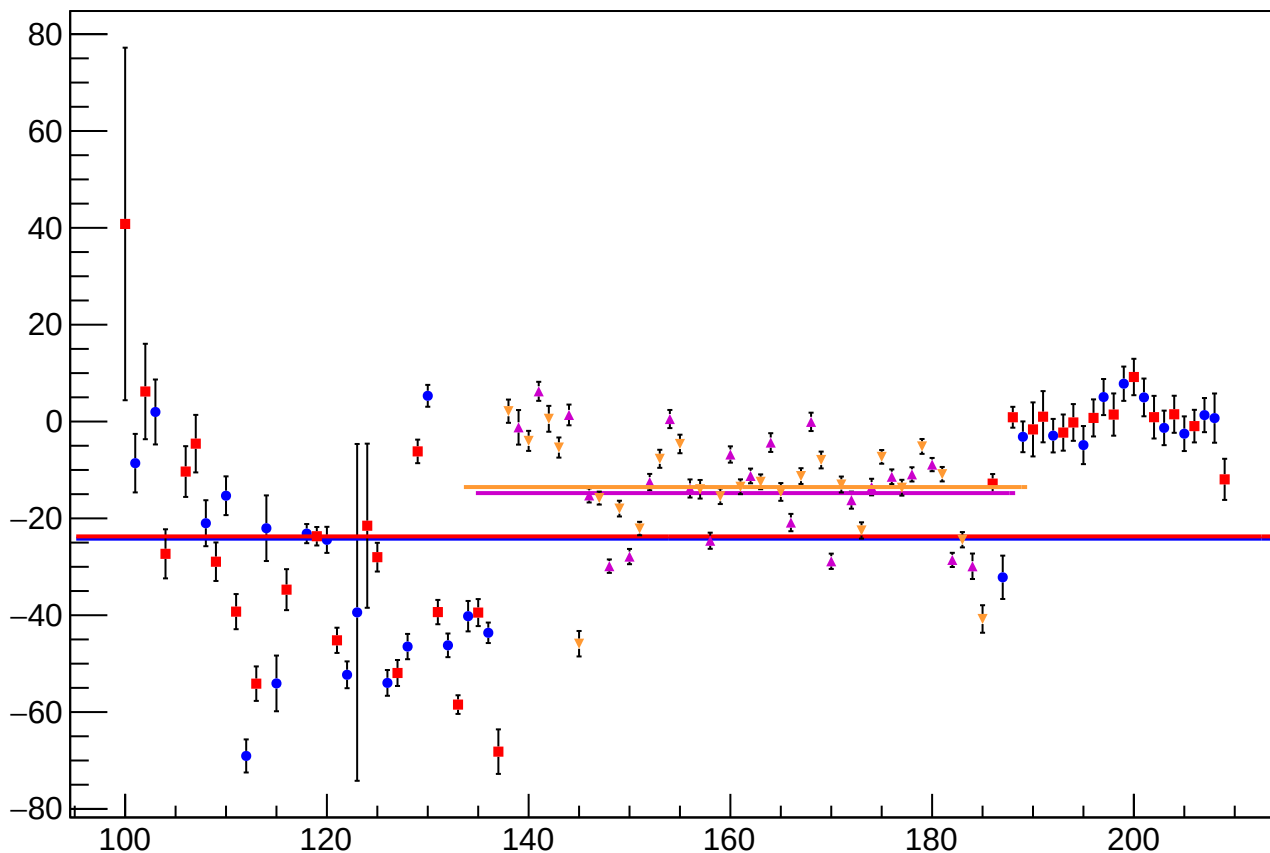
Right: 36.189 $\pm$ 0.355 χ^2 /NDF: 12114.8/59

In: 24.597 $\pm$ 0.324 χ^2 /NDF:7531.5/50

Out: 24.980 $\pm$ 0.293 χ^2 /NDF:11008.9/56

All: 24.807 $\pm$ 0.218 χ^2 /NDF: 18541.2/107

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.186 ± 0.622 $\chi^2/\text{NDF}: 1353.6/27$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -23.721 ± 0.580 $\chi^2/\text{NDF}: 1399.9/31$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

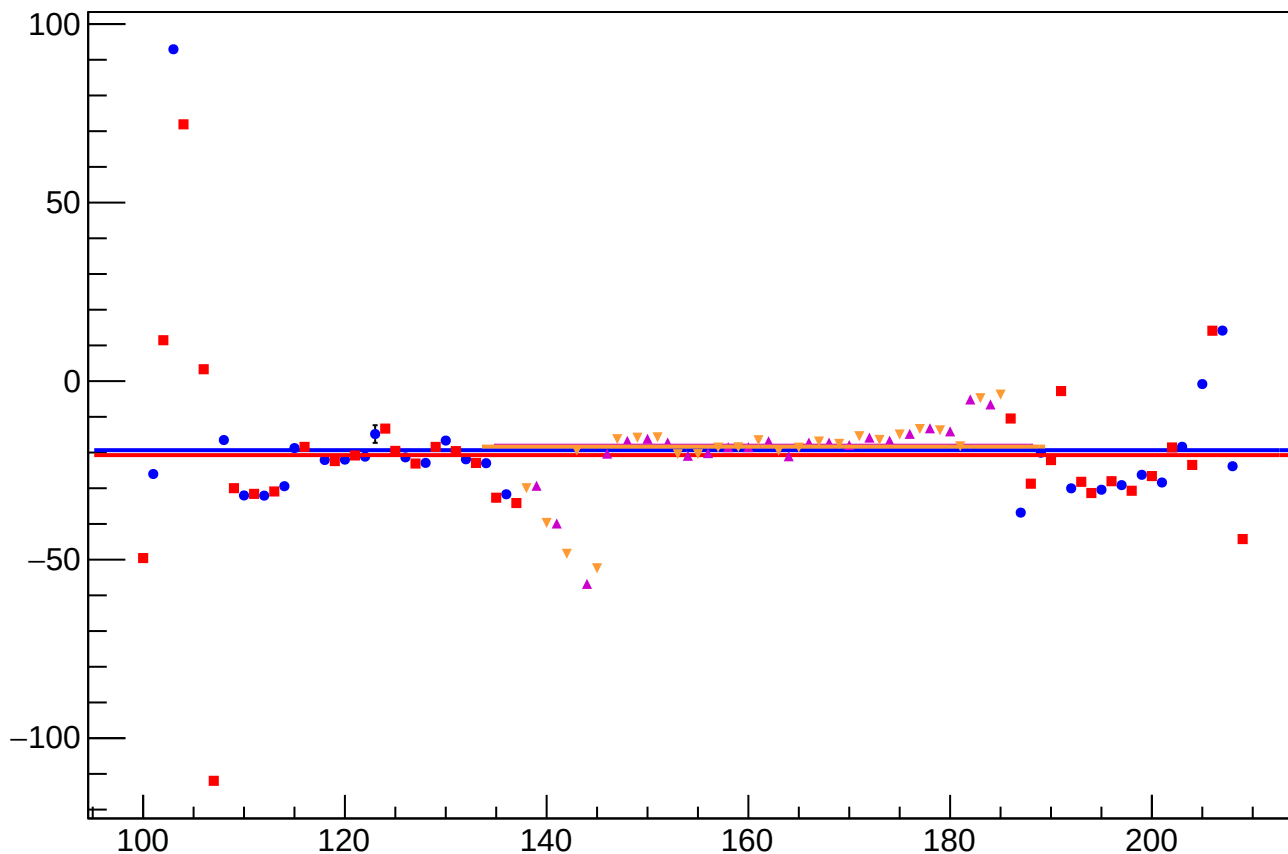
Right: -23.937 ± 0.424 $\chi^2/\text{NDF}: 2753.8/59$

In: -17.082 ± 0.308 $\chi^2/\text{NDF}: 2364.5/50$

Out: -16.184 ± 0.296 $\chi^2/\text{NDF}: 2201.2/56$

All: -16.616 ± 0.213 $\chi^2/\text{NDF}: 4570.1/107$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.340 ± 0.030 $\chi^2/\text{NDF}: 595233.2/27$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -20.724 ± 0.028 $\chi^2/\text{NDF}: 575605.1/31$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

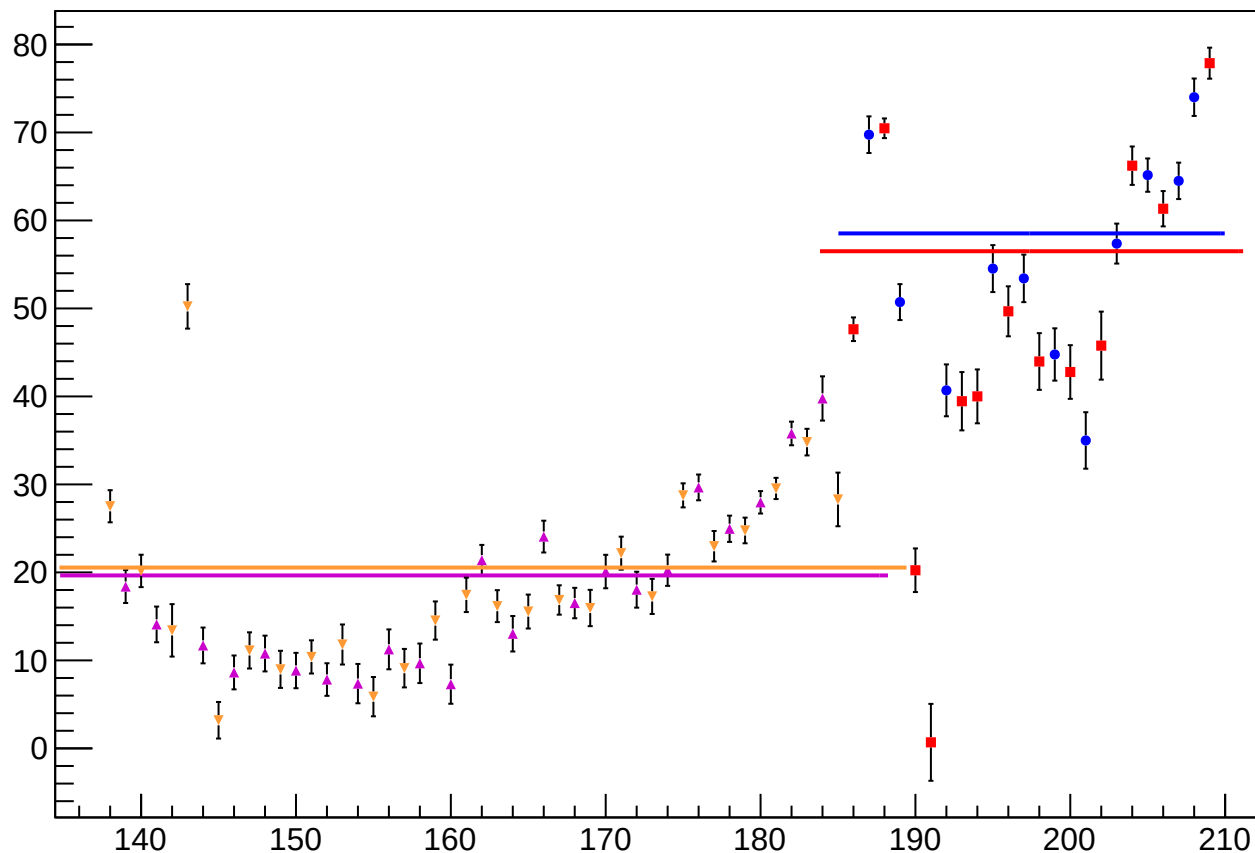
Right: -20.068 ± 0.020 $\chi^2/\text{NDF}: 1171982.9/59$

In: -18.369 ± 0.014 $\chi^2/\text{NDF}: 838570.3/50$

Out: -18.909 ± 0.014 $\chi^2/\text{NDF}: 865231.9/56$

All: -18.646 ± 0.010 $\chi^2/\text{NDF}: 1704549.3/107$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 58.526 $\pm$ 0.707 χ^2 /NDF: 235.0/10

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF:626.4/24

Right Out: 56.501 $\pm$ 0.583 χ^2 /NDF: 853.5/12

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

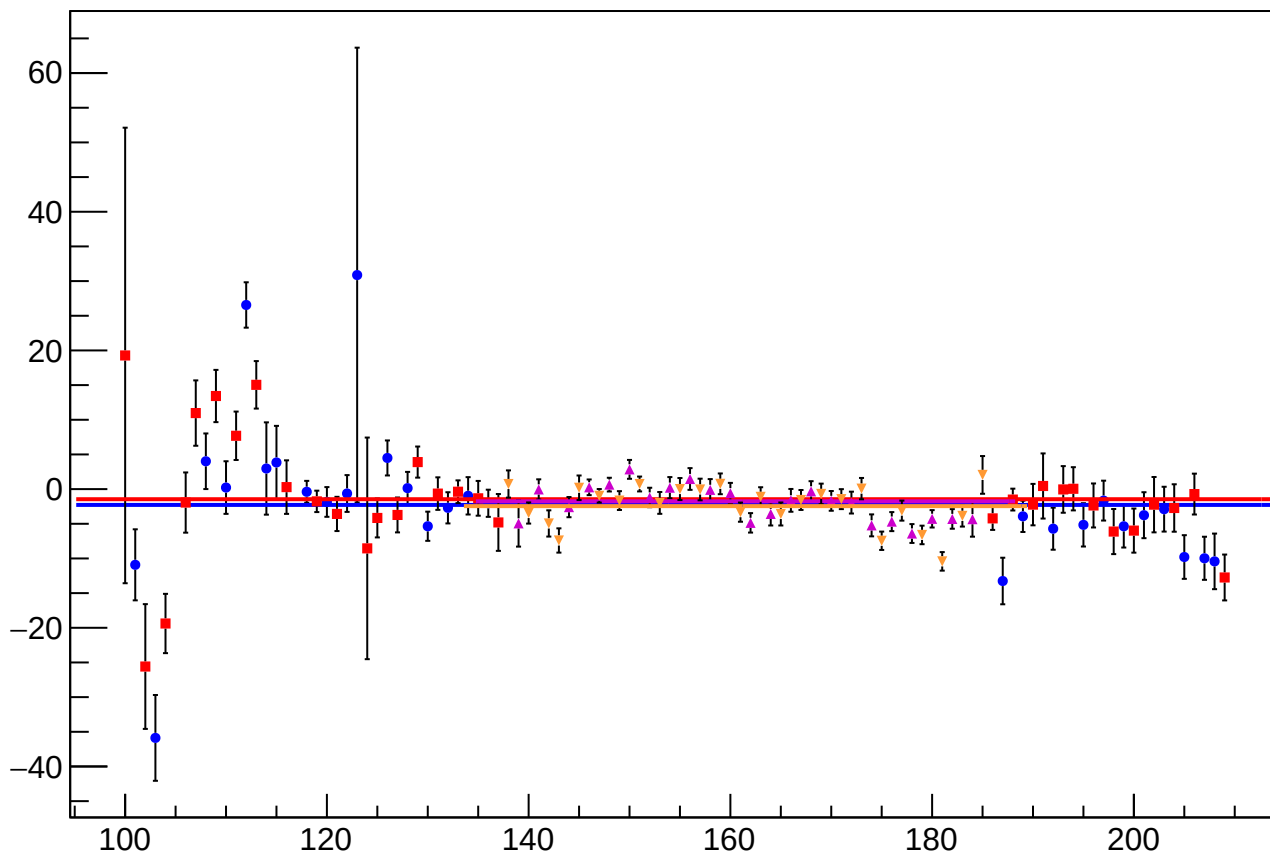
Right: 57.321 $\pm$ 0.450 χ^2 /NDF: 1093.5/23

In: 28.382 $\pm$ 0.335 χ^2 /NDF:3150.7/33

Out: 30.992 $\pm$ 0.314 χ^2 /NDF:4177.2/37

All: 29.770 $\pm$ 0.229 χ^2 /NDF: 7360.2/71

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.278 ± 0.538 $\chi^2/\text{NDF}: 159.0/27$

Left Out: -2.455 ± 0.292 $\chi^2/\text{NDF}: 106.0/24$

Right Out: -1.457 ± 0.495 $\chi^2/\text{NDF}: 107.1/31$

Left In: -1.758 ± 0.302 $\chi^2/\text{NDF}: 67.4/22$

Left: -2.118 ± 0.210 $\chi^2/\text{NDF}: 176.1/47$

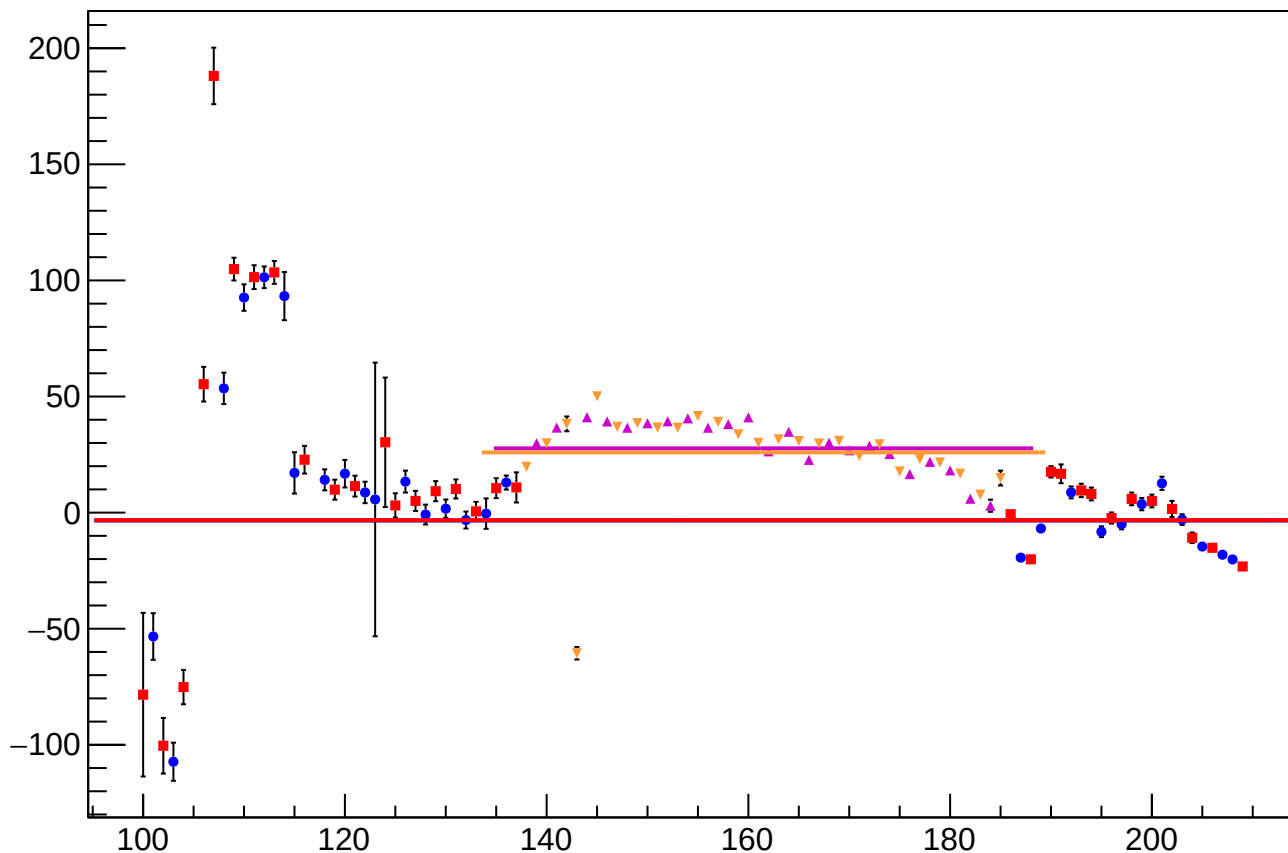
Right: -1.833 ± 0.364 $\chi^2/\text{NDF}: 267.4/59$

In: -1.883 ± 0.263 $\chi^2/\text{NDF}: 227.1/50$

Out: -2.197 ± 0.252 $\chi^2/\text{NDF}: 216.1/56$

All: -2.047 ± 0.182 $\chi^2/\text{NDF}: 444.0/107$

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.391 ± 0.574 χ^2/NDF : 1519.5/27

Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24

Right Out: -3.262 ± 0.470 χ^2/NDF : 2610.1/31

Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47

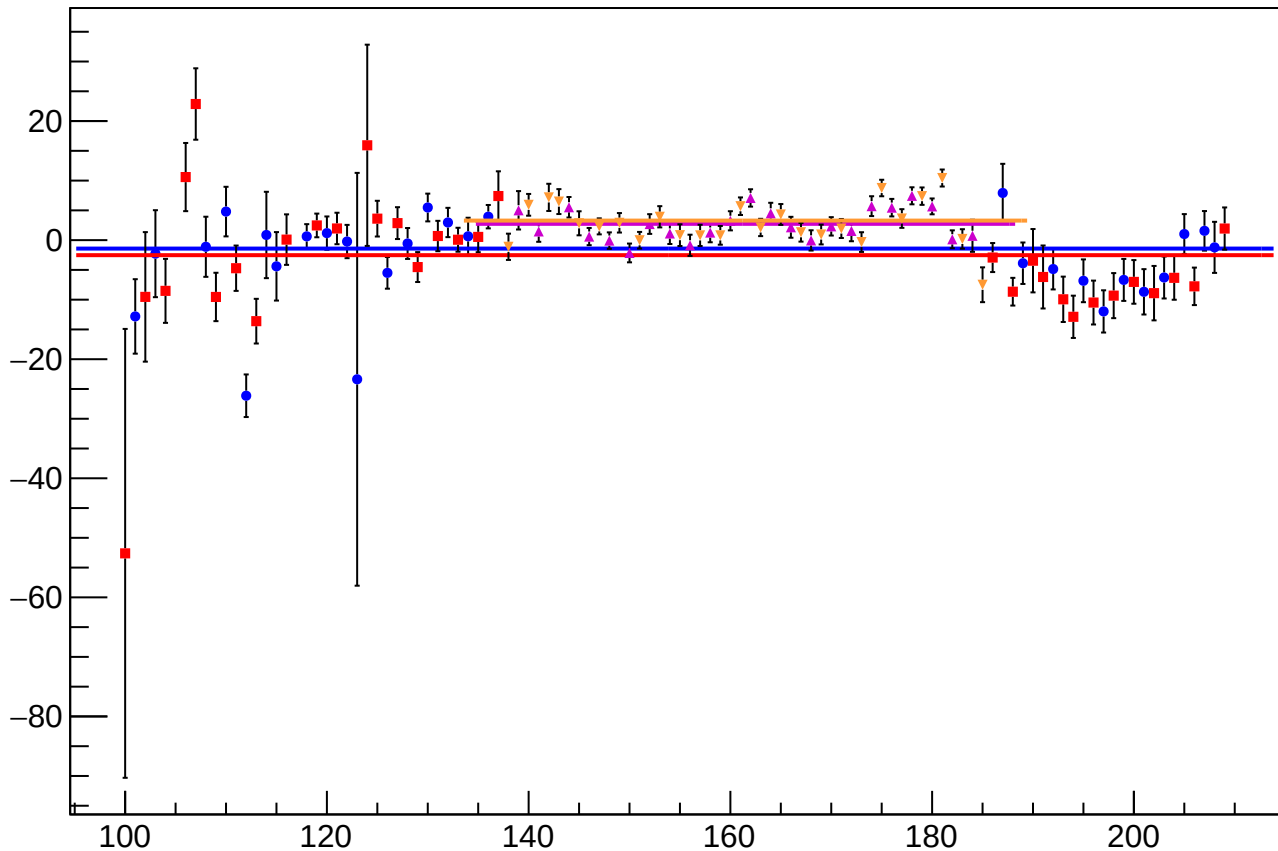
Right: -3.314 ± 0.364 χ^2/NDF : 4129.6/59

In: 18.274 ± 0.316 χ^2/NDF : 4365.5/50

Out: 14.680 ± 0.292 χ^2/NDF : 6692.9/56

All: 16.335 ± 0.214 χ^2/NDF : 11128.3/107

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.418 ± 0.621 χ^2/NDF : 103.7/27

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -2.526 ± 0.590 χ^2/NDF : 105.2/31

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

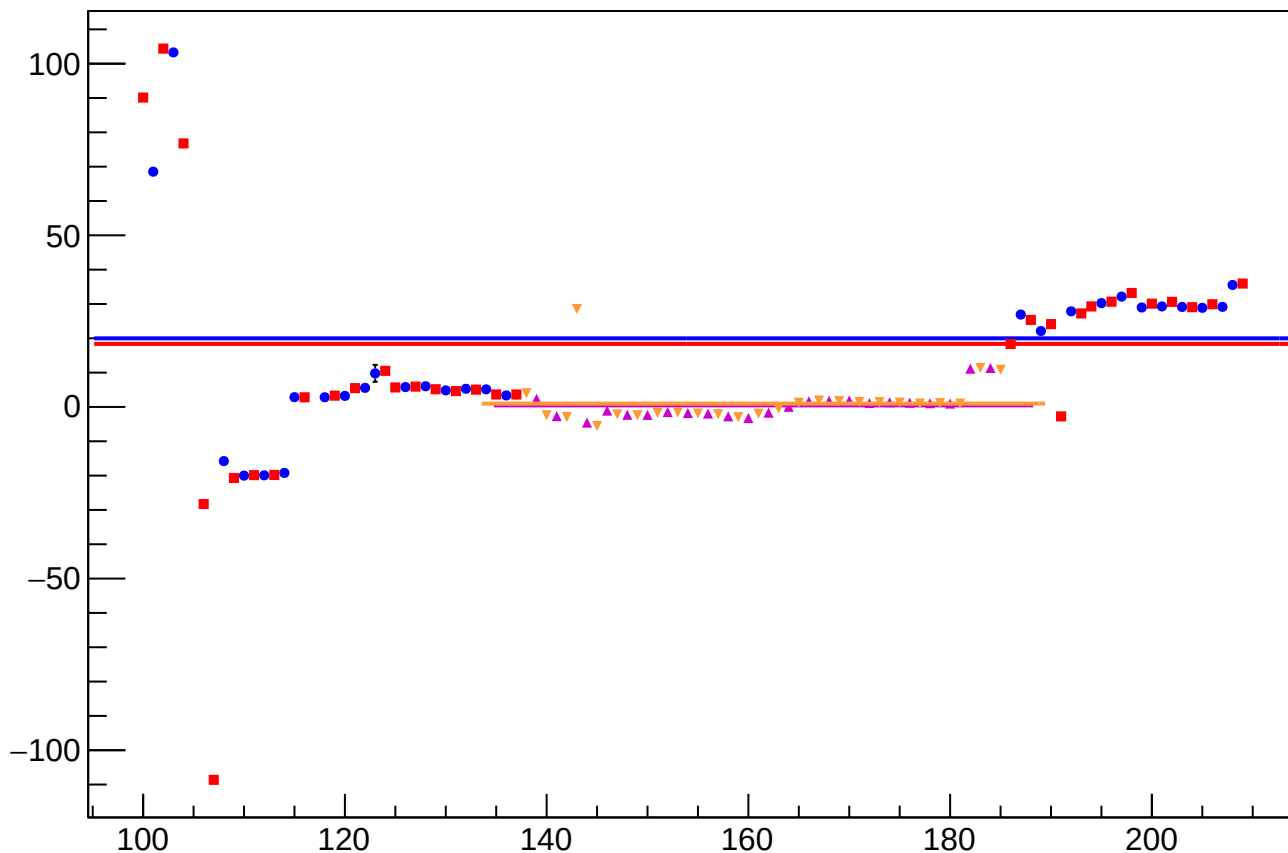
Right: -2.000 ± 0.428 χ^2/NDF : 210.6/59

In: 1.774 ± 0.299 χ^2/NDF : 202.6/50

Out: 1.891 ± 0.289 χ^2/NDF : 281.1/56

All: 1.834 ± 0.208 χ^2/NDF : 483.8/107

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 19.990 $\pm$ 0.029 χ^2 /NDF: 496057.8/27

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF: 117391.3/24

Right Out: 18.376 $\pm$ 0.028 χ^2 /NDF: 734423.6/31

Left In: 0.451 $\pm$ 0.015 χ^2 /NDF: 50699.8/22

Left: 0.719 $\pm$ 0.011 χ^2 /NDF: 168685.3/47

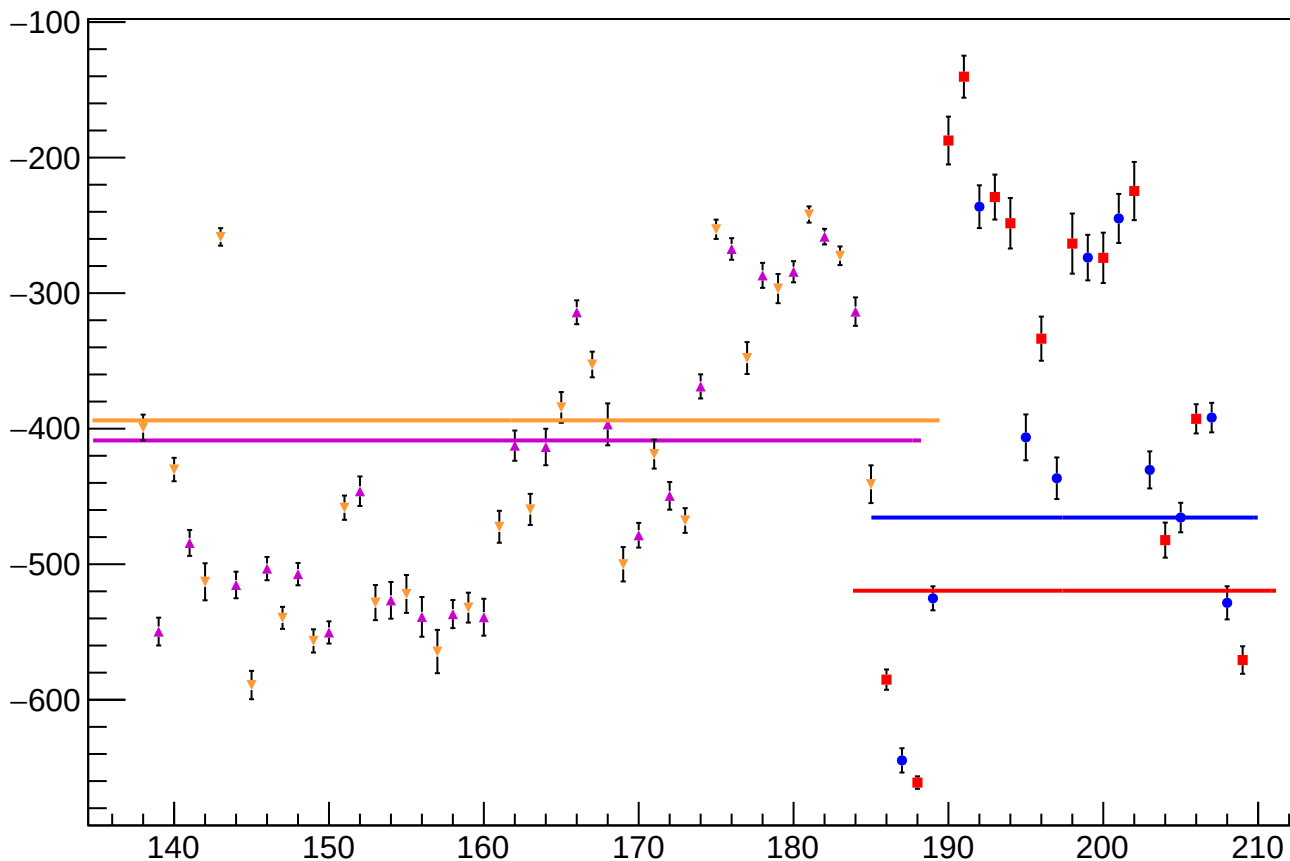
Right: 19.147 $\pm$ 0.020 χ^2 /NDF: 1232082.2/59

In: 4.729 $\pm$ 0.014 χ^2 /NDF: 897762.8/50

Out: 4.962 $\pm$ 0.013 χ^2 /NDF: 1152071.4/56

All: 4.848 $\pm$ 0.010 χ^2 /NDF: 2049983.1/107

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -465.571+/-3.716 χ^2/NDF : 1028.8/10

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -519.539+/-2.959 χ^2/NDF : 3296.5/12

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

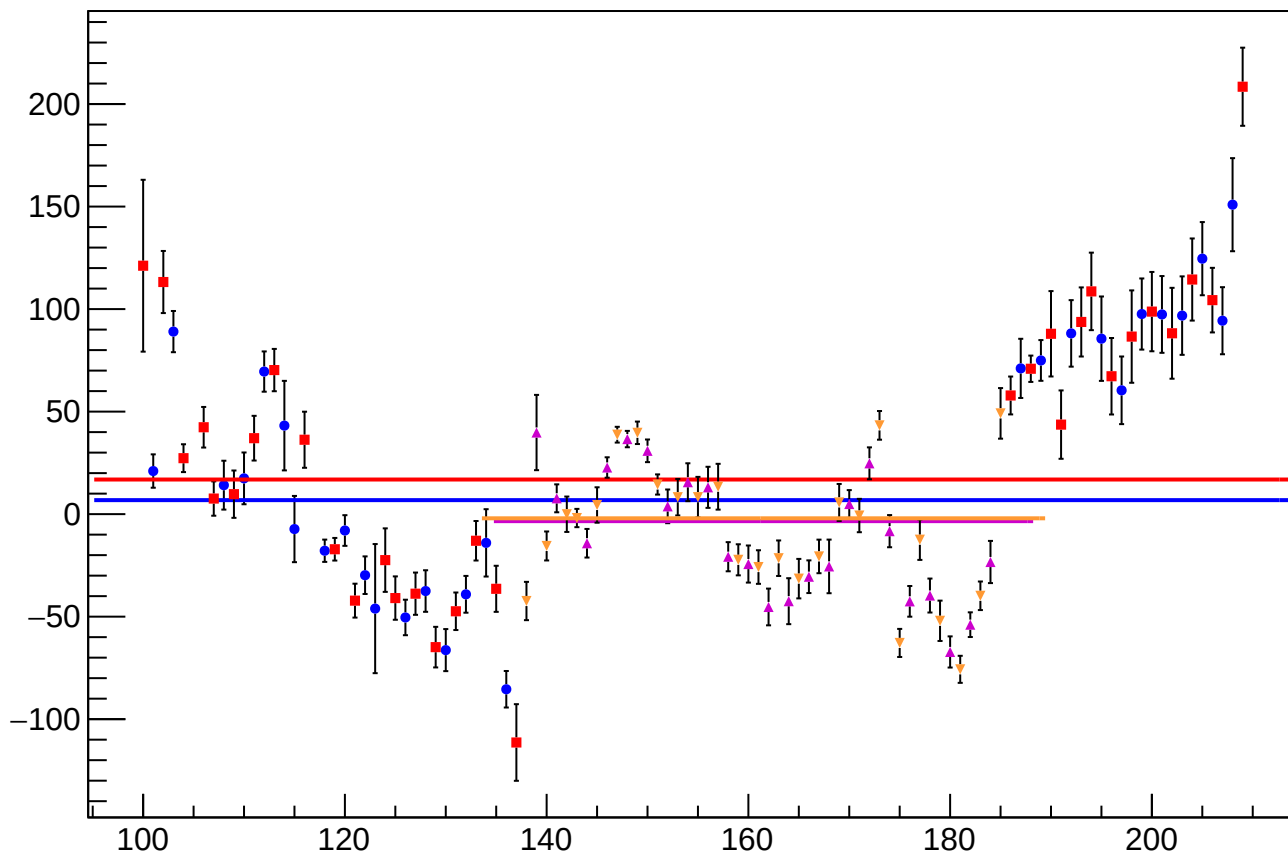
Right: -498.595+/-2.315 χ^2/NDF : 4454.5/23

In: -421.265+/-1.747 χ^2/NDF : 4274.2/33

Out: -430.478+/-1.597 χ^2/NDF : 8347.7/37

All: -426.283+/-1.179 χ^2/NDF : 12637.0/71

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.827 ± 2.117 $\chi^2/\text{NDF}: 710.0/27$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 16.881 ± 1.952 $\chi^2/\text{NDF}: 790.7/31$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

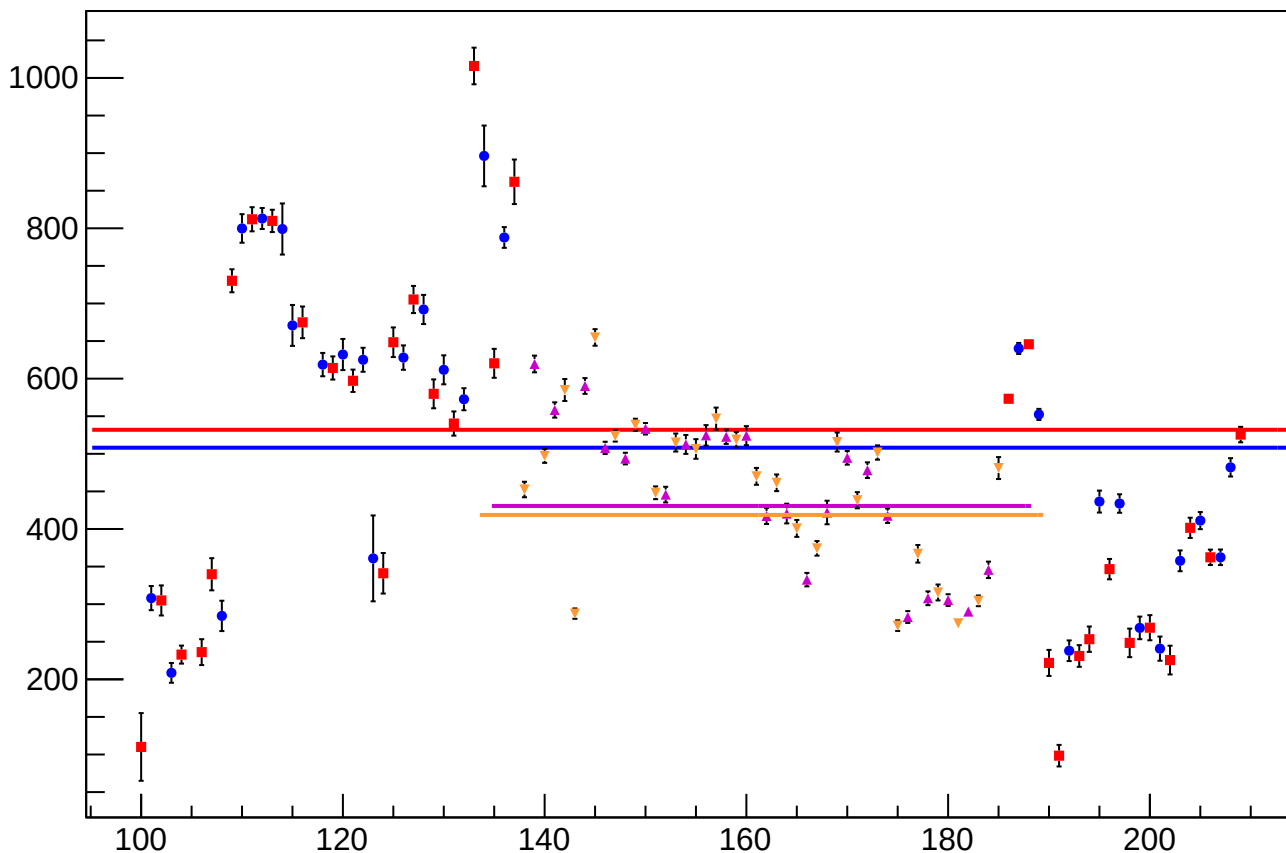
Right: 12.262 ± 1.435 $\chi^2/\text{NDF}: 1512.9/59$

In: 0.066 ± 1.235 $\chi^2/\text{NDF}: 1176.4/50$

Out: 4.537 ± 1.150 $\chi^2/\text{NDF}: 1415.8/56$

All: 2.459 ± 0.842 $\chi^2/\text{NDF}: 2599.2/107$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 508.131 $\pm$ 2.643 χ^2 /NDF: 4188.2/27

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 531.969 $\pm$ 2.156 χ^2 /NDF: 7077.3/31

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

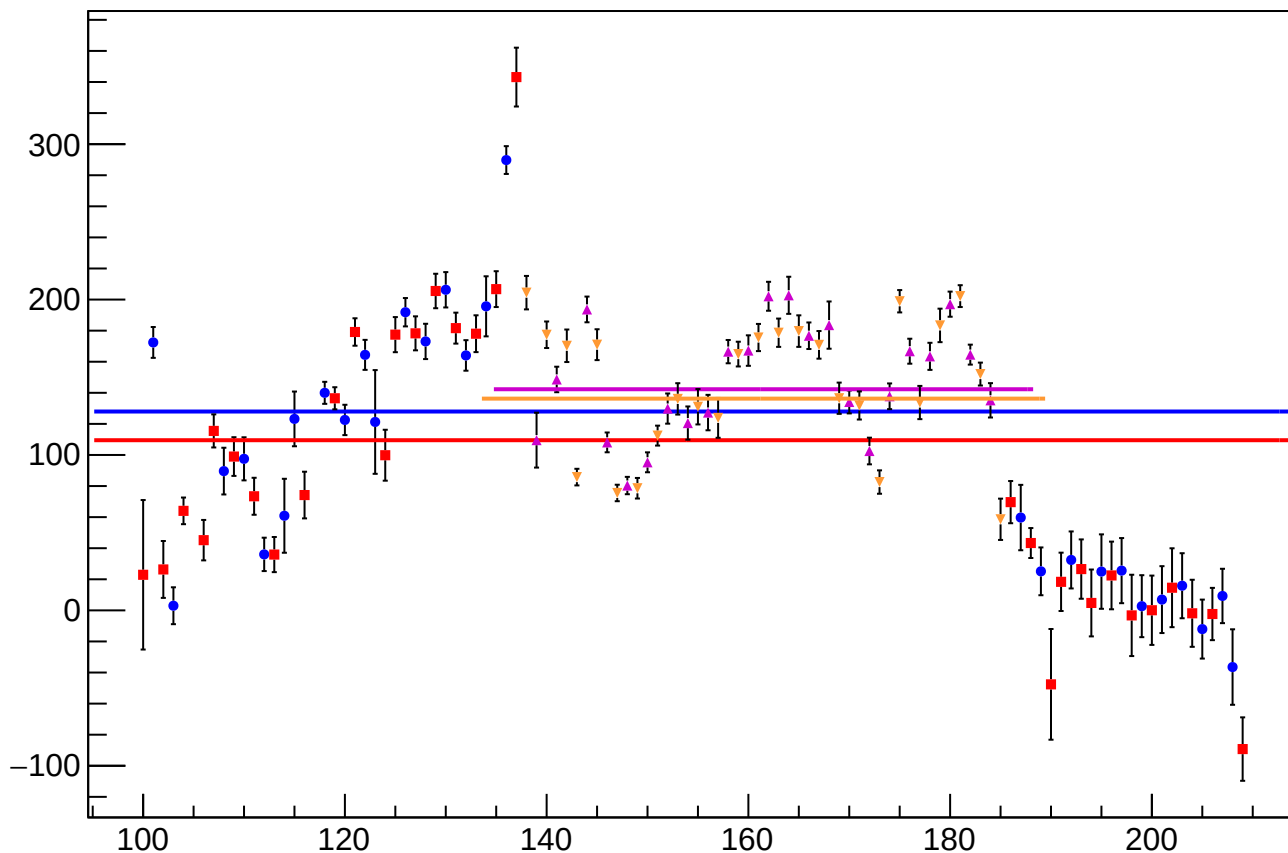
Right: 522.445 $\pm$ 1.670 χ^2 /NDF: 11314.3/59

In: 458.333 $\pm$ 1.580 χ^2 /NDF:7591.3/50

Out: 468.352 $\pm$ 1.427 χ^2 /NDF:11924.6/56

All: 463.849 $\pm$ 1.059 χ^2 /NDF: 19538.0/107

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 127.962 $\pm$ 2.471 χ^2 /NDF: 1077.3/27

Left Out: 136.258 $\pm$ 1.651 χ^2 /NDF:758.3/24

Right Out: 109.495 $\pm$ 2.321 χ^2 /NDF: 1051.0/31

Left In: 142.296 $\pm$ 1.745 χ^2 /NDF:459.8/22

Left: 139.111 $\pm$ 1.199 χ^2 /NDF: 1224.4/47

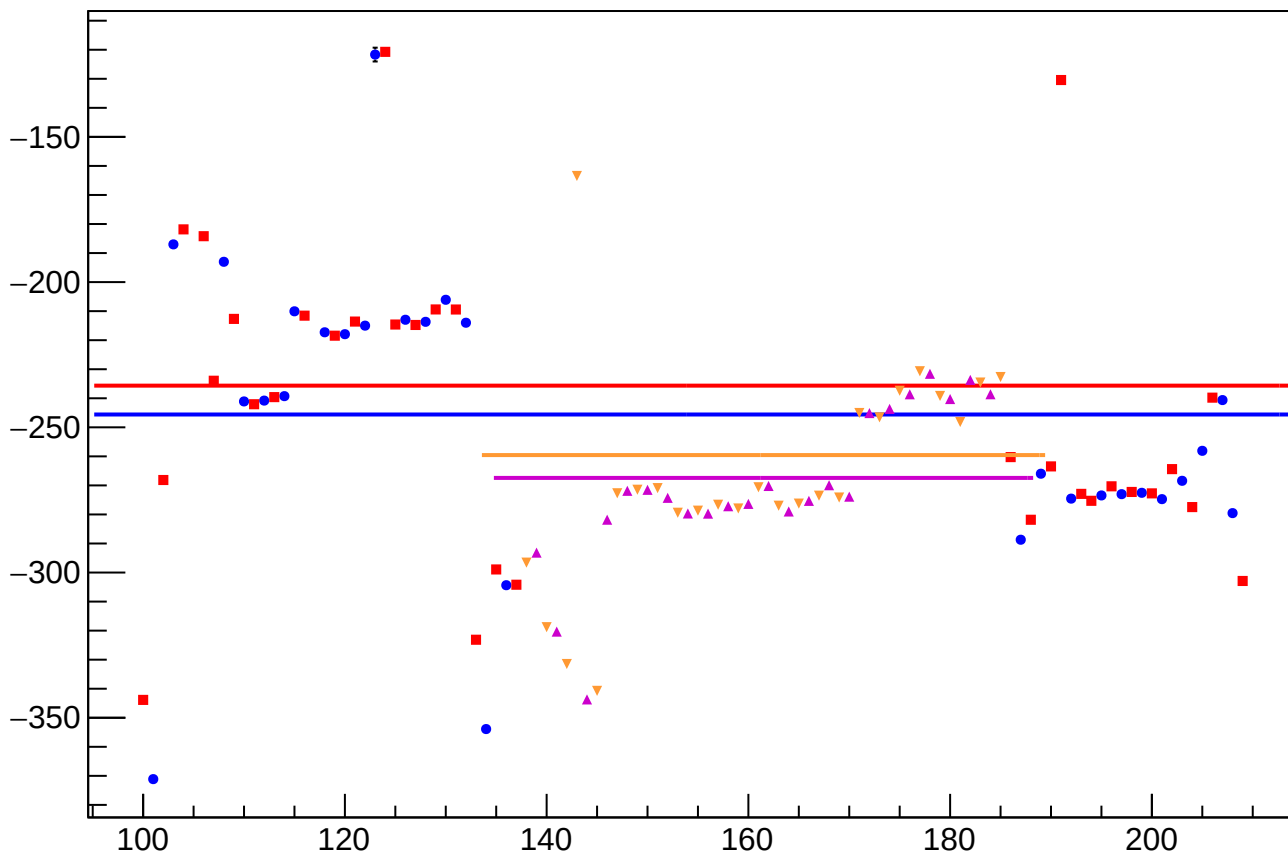
Right: 118.152 $\pm$ 1.692 χ^2 /NDF: 2158.1/59

In: 137.527 $\pm$ 1.425 χ^2 /NDF:1559.6/50

Out: 127.266 $\pm$ 1.345 χ^2 /NDF:1897.6/56

All: 132.101 $\pm$ 0.978 χ^2 /NDF: 3484.6/107

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -245.584+/-0.123 χ^2/NDF : 164765.3/27

Left Out: -259.557+/-0.079 χ^2/NDF : 238235.2/24

Right Out: -235.649+/-0.113 χ^2/NDF : 179152.5/31

Left In: -267.417+/-0.082 χ^2/NDF : 98035.5/22

Left: -263.361+/-0.057 χ^2/NDF : 341051.4/47

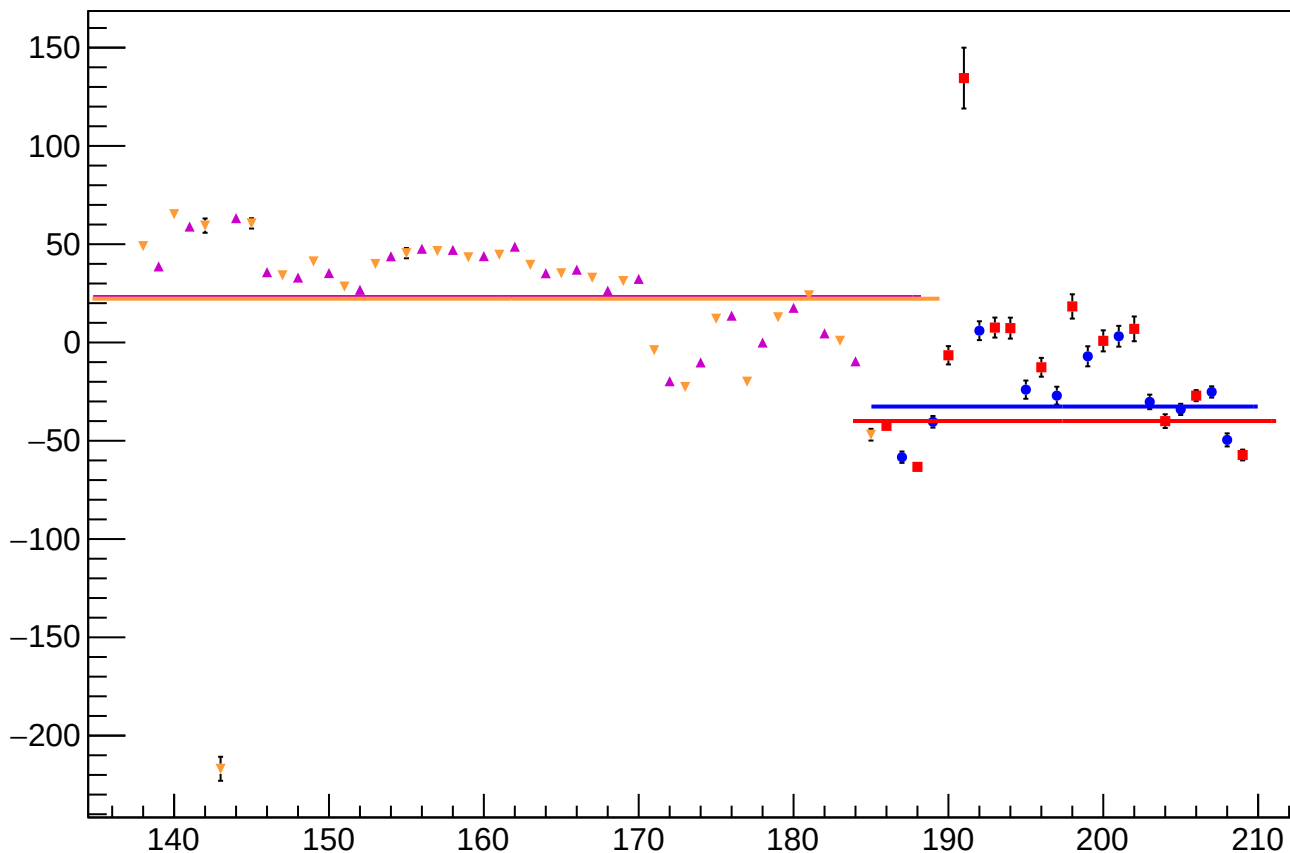
Right: -240.222+/-0.083 χ^2/NDF : 347447.8/59

In: -260.726+/-0.068 χ^2/NDF : 284702.8/50

Out: -251.738+/-0.065 χ^2/NDF : 447272.8/56

All: -256.020+/-0.047 χ^2/NDF : 741118.5/107

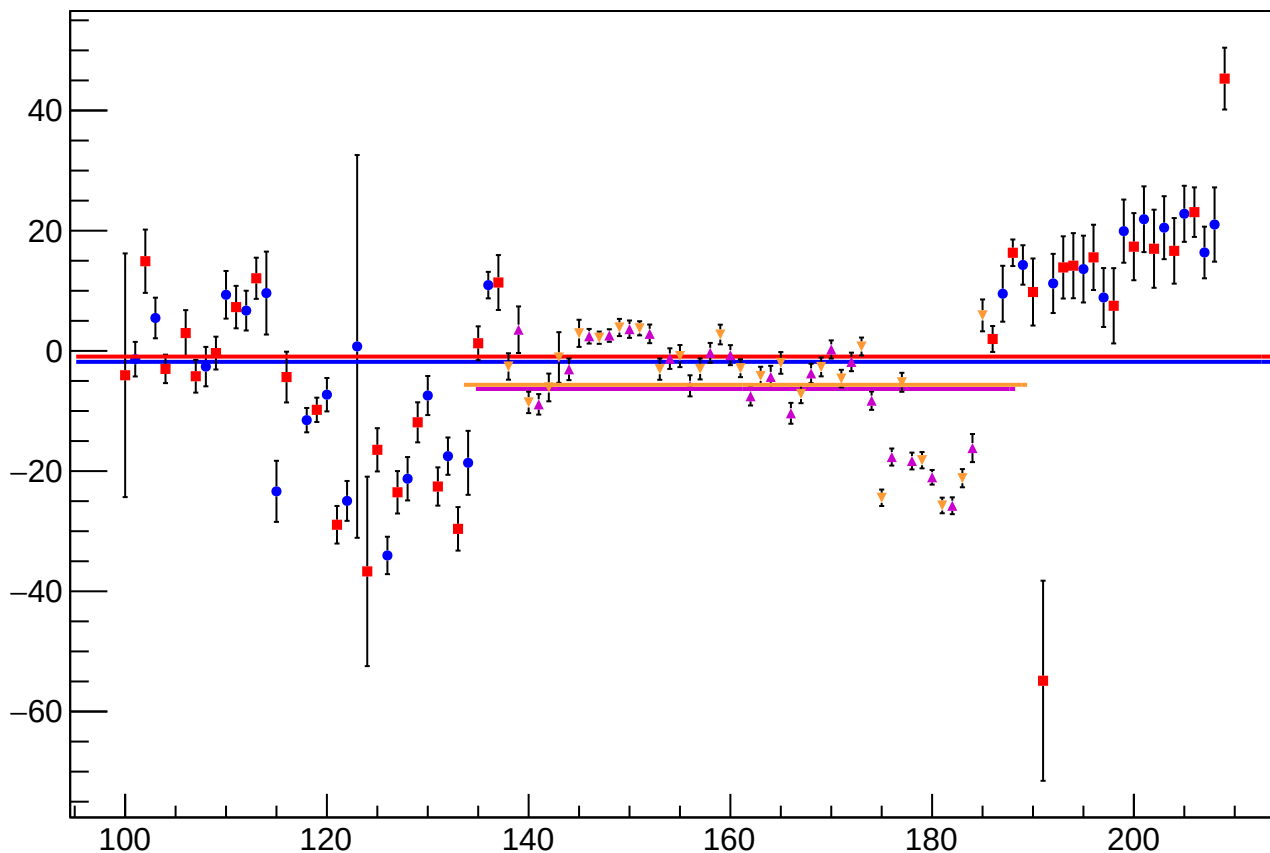
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.589 ± 1.081 $\chi^2/\text{NDF}: 260.5/10$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -39.939 ± 0.866 $\chi^2/\text{NDF}: 865.2/12$
 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: -37.066 ± 0.676 $\chi^2/\text{NDF}: 1153.8/23$
 In: 16.383 ± 0.376 $\chi^2/\text{NDF}: 5340.3/33$
 Out: 11.395 ± 0.362 $\chi^2/\text{NDF}: 10295.1/37$
 All: 13.793 ± 0.261 $\chi^2/\text{NDF}: 15726.6/71$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.821 ± 0.692 χ^2/NDF : 487.0/27

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -0.947 ± 0.633 χ^2/NDF : 572.2/31

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

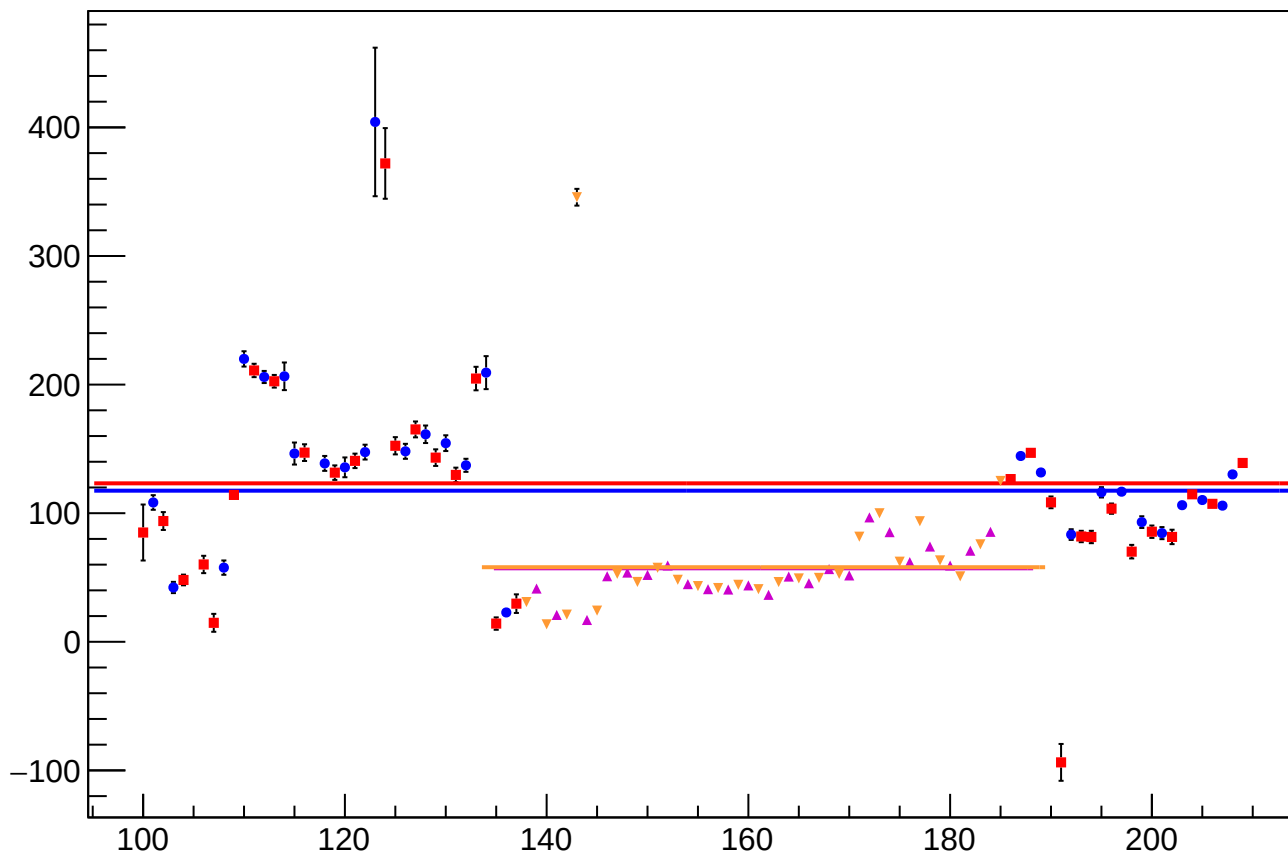
Right: -1.345 ± 0.467 χ^2/NDF : 1060.0/59

In: -5.537 ± 0.291 χ^2/NDF : 1305.0/50

Out: -4.708 ± 0.282 χ^2/NDF : 1509.9/56

All: -5.109 ± 0.203 χ^2/NDF : 2819.1/107

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 117.509 $\pm$ 0.808 χ^2 /NDF: 2513.5/27

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 123.216 $\pm$ 0.653 χ^2 /NDF: 3246.3/31

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

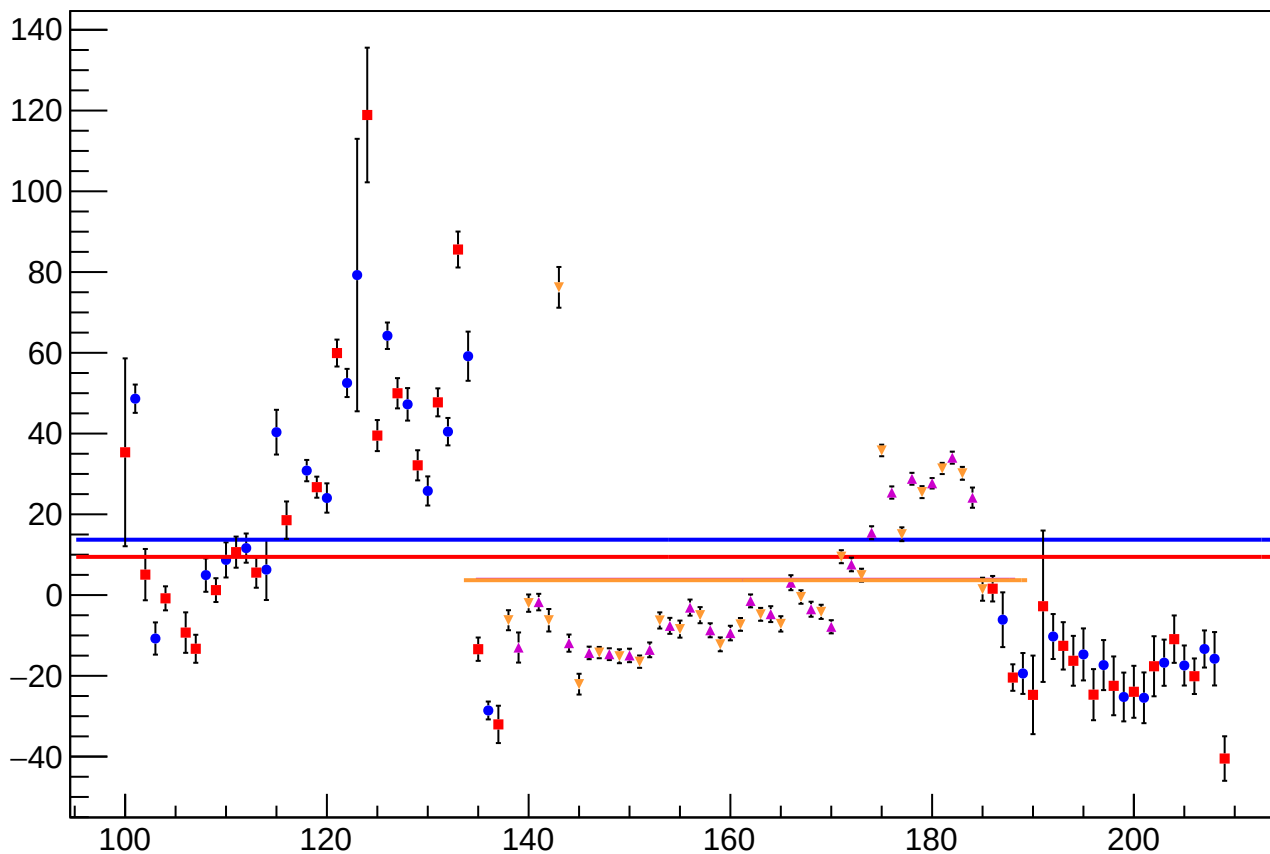
Right: 120.962 $\pm$ 0.508 χ^2 /NDF: 5790.0/59

In: 69.000 $\pm$ 0.358 χ^2 /NDF:8802.2/50

Out: 75.656 $\pm$ 0.340 χ^2 /NDF:15158.3/56

All: 72.503 $\pm$ 0.247 χ^2 /NDF: 24142.2/107

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.713 $\pm$ 0.798 χ^2 /NDF: 1462.8/27

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 9.459 $\pm$ 0.751 χ^2 /NDF: 1532.8/31

Left In: 3.786 $\pm$ 0.362 χ^2 /NDF:2198.8/22

Left: 3.734 $\pm$ 0.254 χ^2 /NDF: 4740.5/47

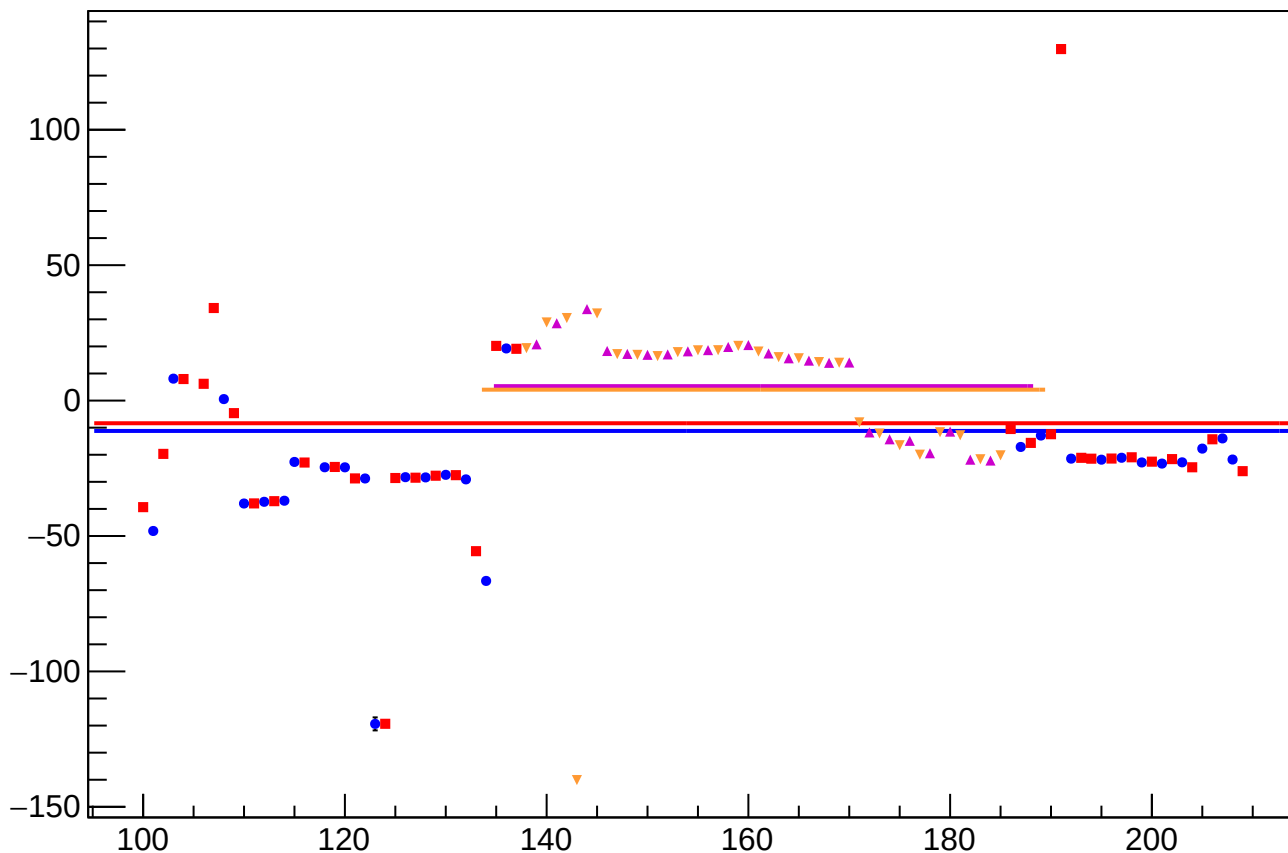
Right: 11.456 $\pm$ 0.547 χ^2 /NDF: 3010.7/59

In: 5.479 $\pm$ 0.329 χ^2 /NDF:3790.0/50

Out: 4.748 $\pm$ 0.322 χ^2 /NDF:4122.8/56

All: 5.105 $\pm$ 0.230 χ^2 /NDF: 7915.3/107

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -11.209 ± 0.037 χ^2/NDF : 298690.5/27

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -8.366 ± 0.036 χ^2/NDF : 391958.8/31

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

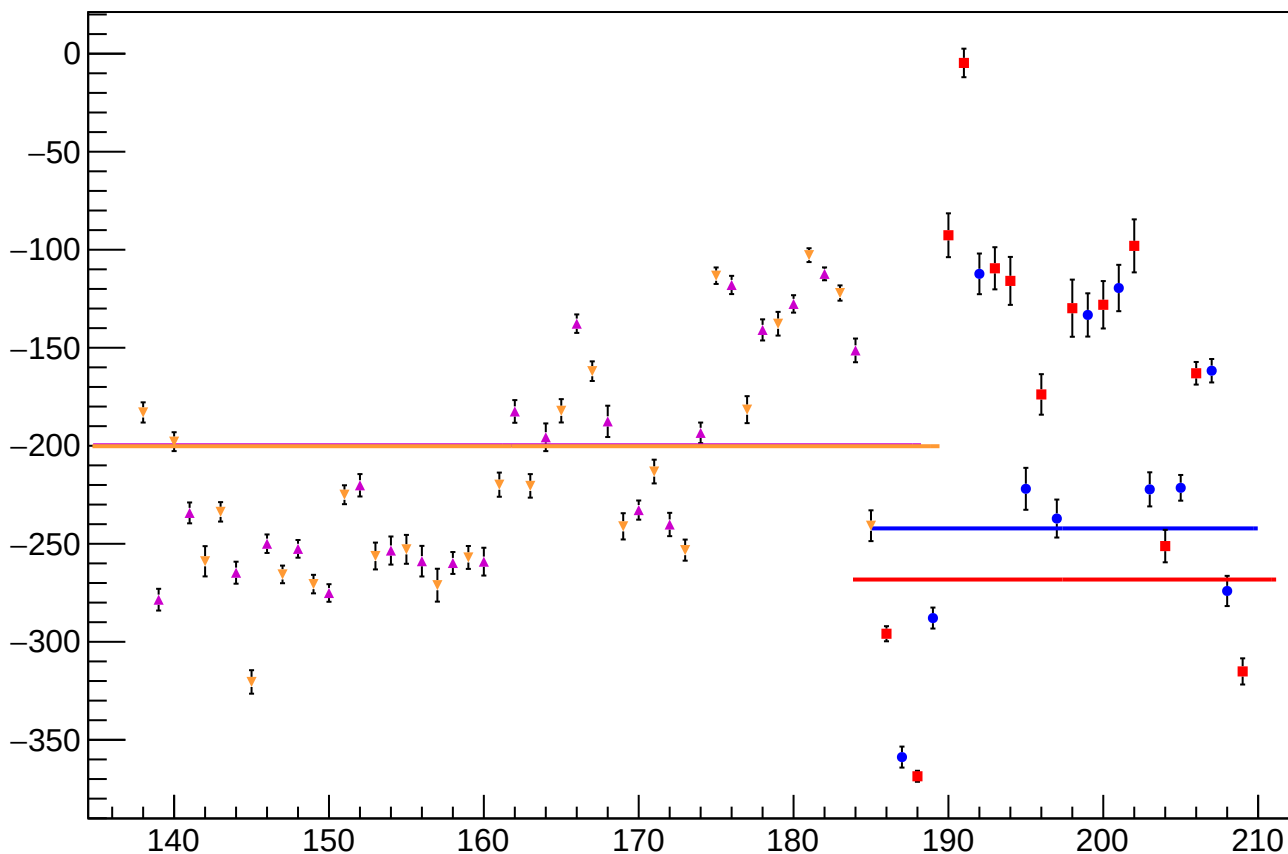
Right: -9.741 ± 0.026 χ^2/NDF : 693674.6/59

In: 2.630 ± 0.015 χ^2/NDF : 1542436.4/50

Out: 1.899 ± 0.015 χ^2/NDF : 1873531.8/56

All: 2.261 ± 0.011 χ^2/NDF : 3417162.9/107

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -242.150 $\pm$ 2.264 χ^2/NDF : 1126.1/10

Left Out: -200.228 $\pm$ 1.078 χ^2/NDF :3225.0/24

Right Out: -268.235 $\pm$ 1.743 χ^2/NDF : 4107.8/12

Left In: -199.739 $\pm$ 1.097 χ^2/NDF :2968.0/22

Left: -199.988 $\pm$ 0.769 χ^2/NDF : 6193.2/47

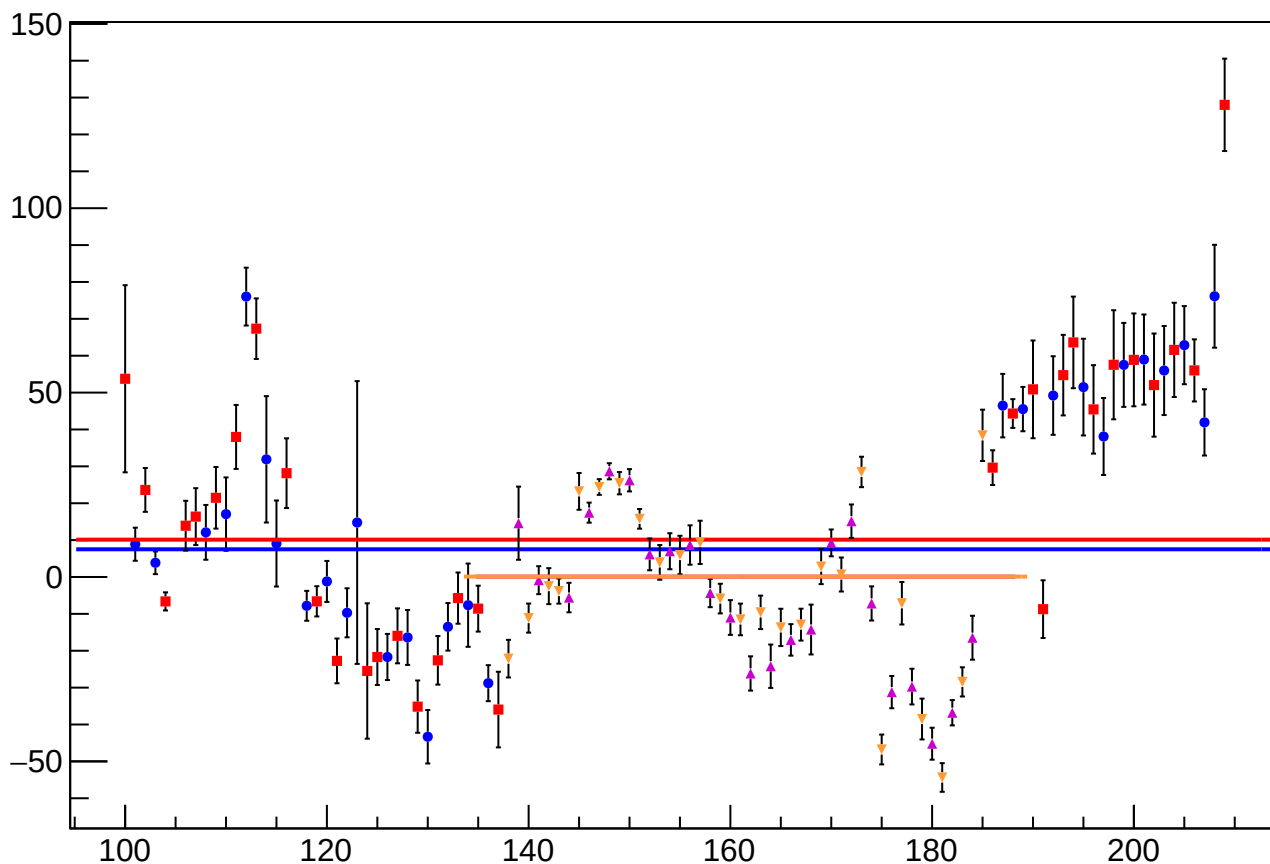
Right: -258.530 $\pm$ 1.381 χ^2/NDF : 5317.3/23

In: -207.809 $\pm$ 0.987 χ^2/NDF :4378.4/33

Out: -219.047 $\pm$ 0.917 χ^2/NDF :8434.5/37

All: -213.846 $\pm$ 0.672 χ^2/NDF : 12882.4/71

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.508 ± 1.318 $\chi^2/\text{NDF}: 468.5/27$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 10.121 ± 1.188 $\chi^2/\text{NDF}: 621.5/31$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

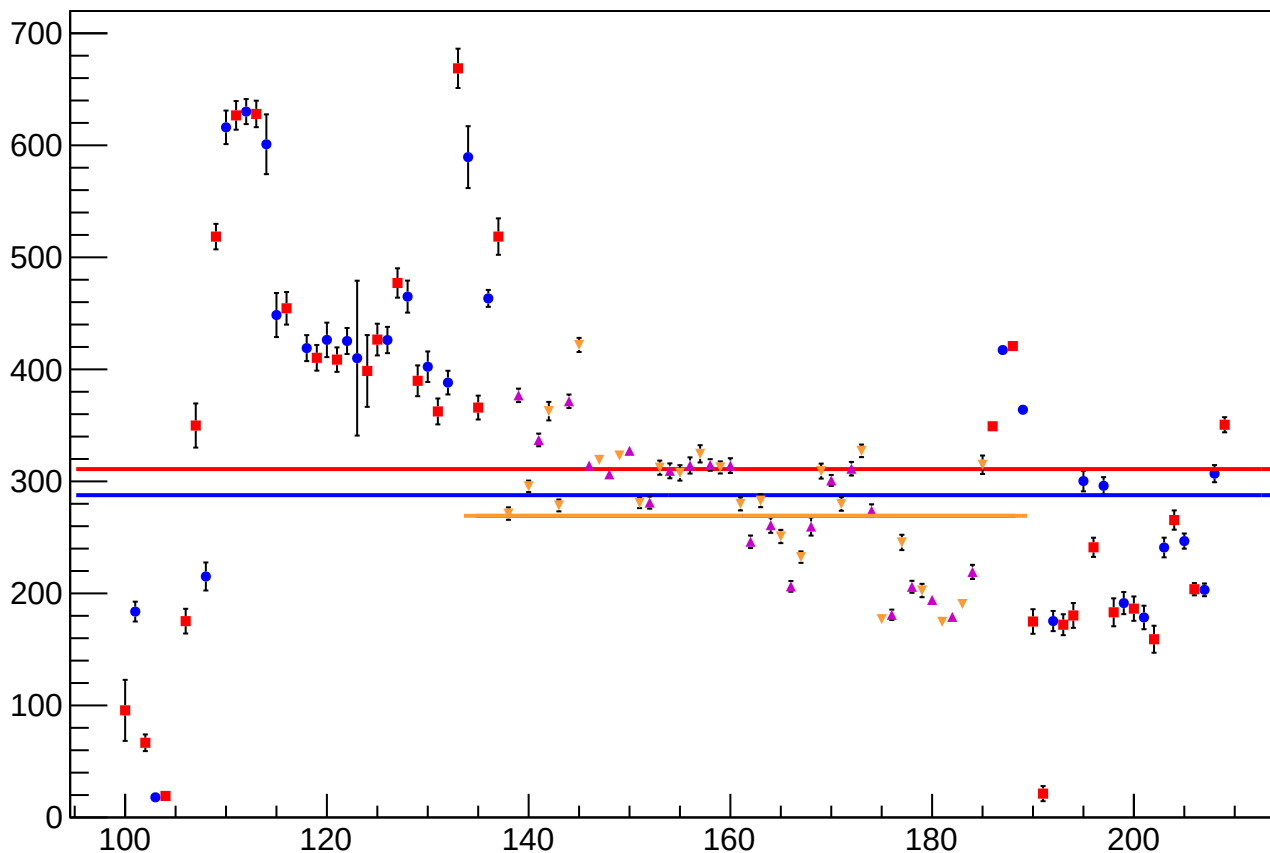
Right: 8.950 ± 0.882 $\chi^2/\text{NDF}: 1092.1/59$

In: 2.231 ± 0.707 $\chi^2/\text{NDF}: 1206.5/50$

Out: 3.272 ± 0.668 $\chi^2/\text{NDF}: 1501.3/56$

All: 2.782 ± 0.485 $\chi^2/\text{NDF}: 2708.9/107$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 287.694 $\pm$ 1.569 χ^2 /NDF: 9512.5/27

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 310.974 $\pm$ 1.269 χ^2 /NDF: 14395.6/31

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

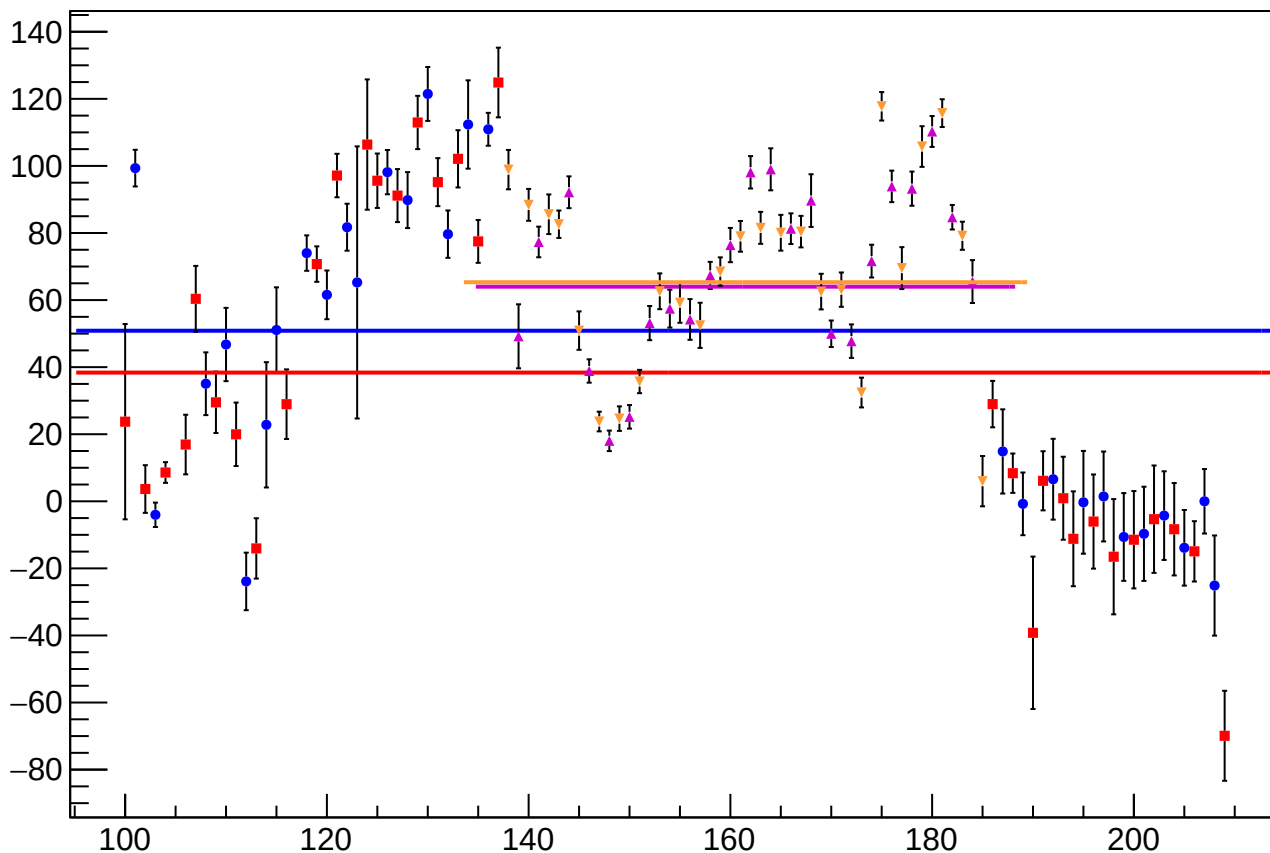
Right: 301.769 $\pm$ 0.987 χ^2 /NDF: 24041.2/59

In: 275.219 $\pm$ 0.895 χ^2 /NDF:12776.5/50

Out: 286.751 $\pm$ 0.821 χ^2 /NDF:18169.7/56

All: 281.482 $\pm$ 0.605 χ^2 /NDF: 31036.3/107

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 50.859+/-1.540 χ^2/NDF : 988.8/27

Left Out: 65.323+/-0.935 χ^2/NDF :1007.1/24

Right Out: 38.383+/-1.434 χ^2/NDF : 933.1/31

Left In: 63.999+/-0.963 χ^2/NDF :799.5/22

Left: 64.681+/-0.671 χ^2/NDF : 1807.5/47

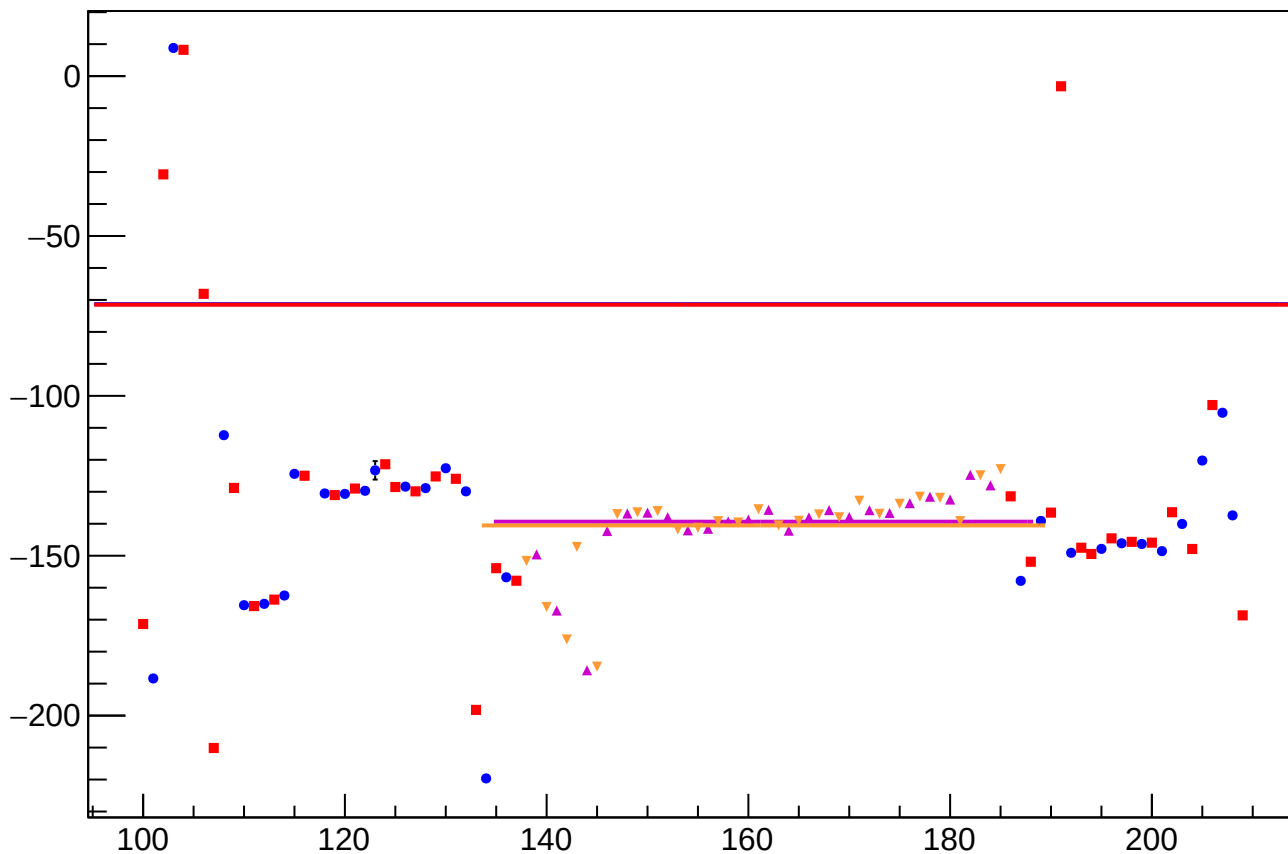
Right: 44.175+/-1.049 χ^2/NDF : 1957.1/59

In: 60.306+/-0.816 χ^2/NDF :1840.6/50

Out: 57.288+/-0.783 χ^2/NDF :2188.0/56

All: 58.734+/-0.565 χ^2/NDF : 4035.8/107

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -71.329 ± 0.062 $\chi^2/\text{NDF}: 1548236.9/27$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -71.482 ± 0.061 $\chi^2/\text{NDF}: 1409823.7/31$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

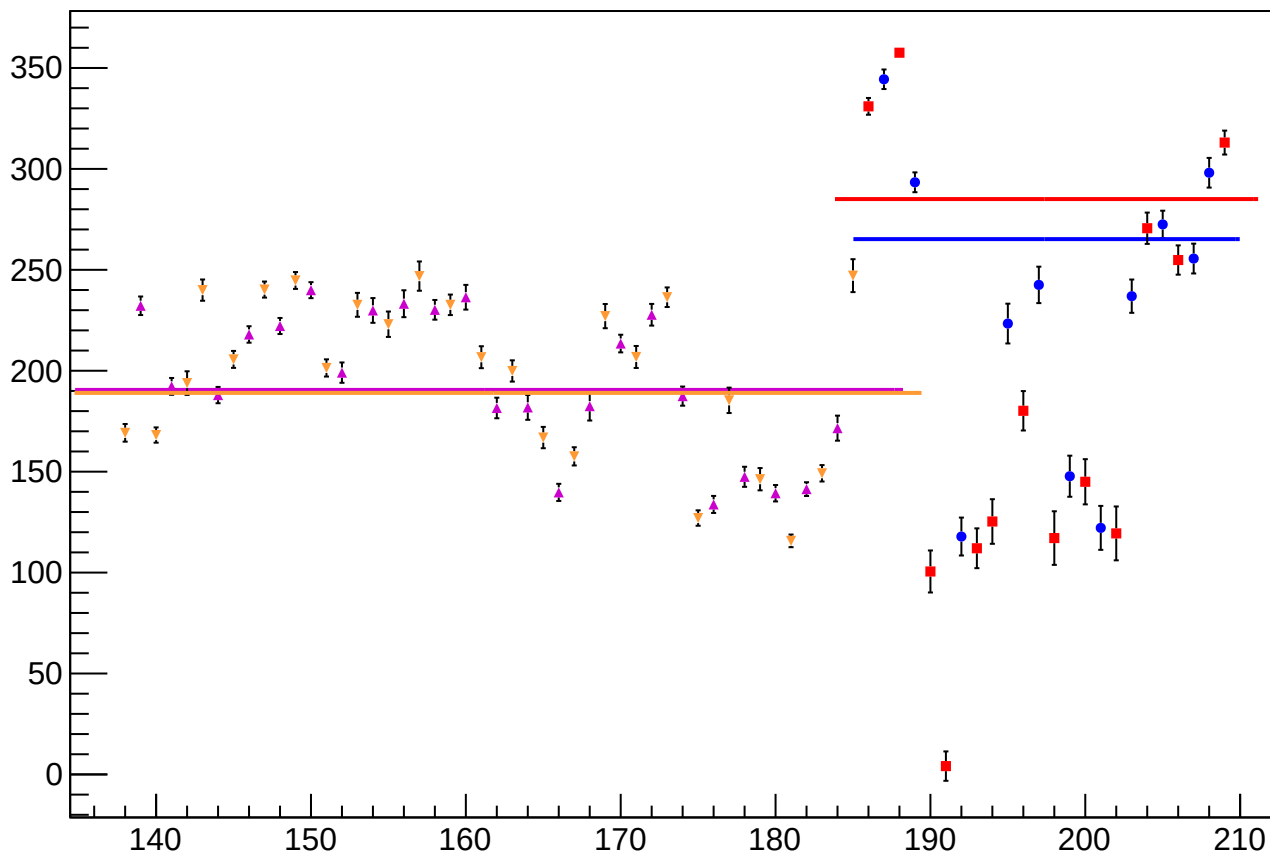
Right: -71.408 ± 0.043 $\chi^2/\text{NDF}: 2958063.7/59$

In: -116.119 ± 0.037 $\chi^2/\text{NDF}: 2391145.4/50$

Out: -116.290 ± 0.036 $\chi^2/\text{NDF}: 2329961.0/56$

All: -116.206 ± 0.026 $\chi^2/\text{NDF}: 4721117.6/10$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 265.213 $\pm$ 2.186 χ^2 /NDF: 911.4/10

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 285.055 $\pm$ 1.672 χ^2 /NDF: 3909.7/12

Left In: 190.506 $\pm$ 0.975 χ^2 /NDF:1412.7/22

Left: 189.753 $\pm$ 0.683 χ^2 /NDF: 3394.8/47

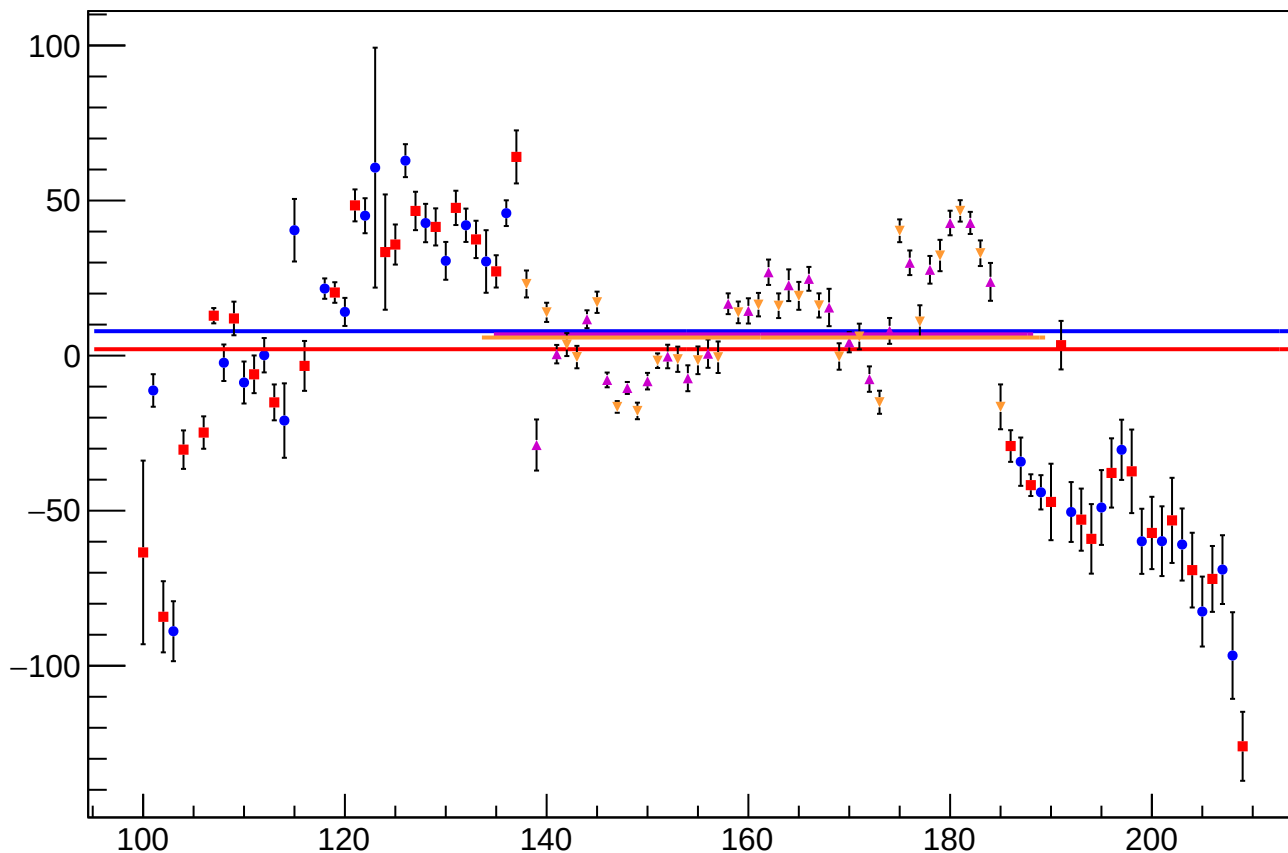
Right: 277.730 $\pm$ 1.328 χ^2 /NDF: 4873.1/23

In: 202.906 $\pm$ 0.890 χ^2 /NDF:3298.5/33

Out: 212.682 $\pm$ 0.830 χ^2 /NDF:8376.3/37

All: 208.138 $\pm$ 0.607 χ^2 /NDF: 11739.2/71

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.875 ± 1.255 χ^2/NDF : 960.5/27

Left Out: 5.834 ± 0.712 χ^2/NDF : 652.2/24

Right Out: 2.062 ± 1.070 χ^2/NDF : 1113.4/31

Left In: 6.862 ± 0.736 χ^2/NDF : 522.7/22

Left: 6.331 ± 0.512 χ^2/NDF : 1176.0/47

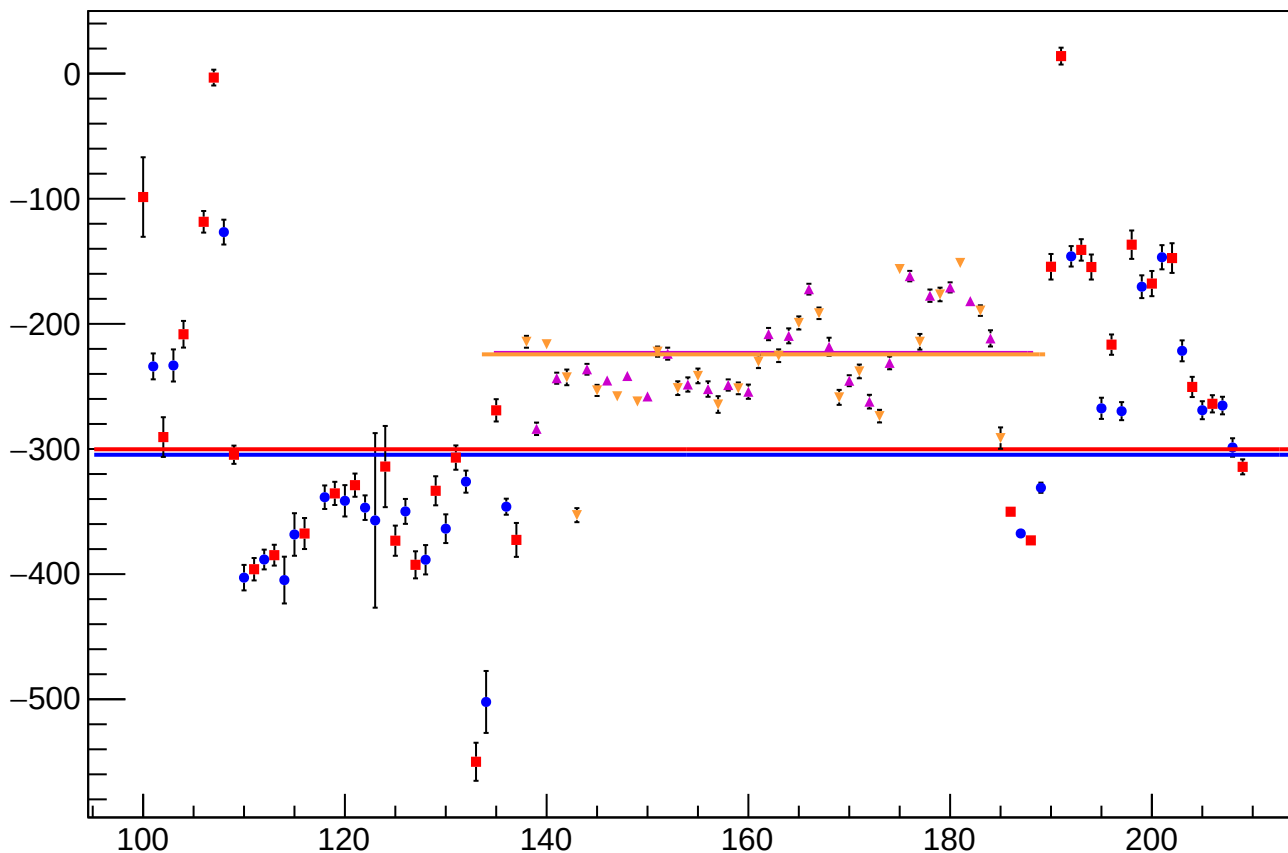
Right: 4.508 ± 0.814 χ^2/NDF : 2086.2/59

In: 7.121 ± 0.635 χ^2/NDF : 1483.7/50

Out: 4.676 ± 0.593 χ^2/NDF : 1774.2/56

All: 5.815 ± 0.433 χ^2/NDF : 3265.8/107

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -304.603+/-1.550 χ^2/NDF : 2249.0/27

Left Out: -224.364+/-0.956 χ^2/NDF : 2103.2/24

Right Out: -300.213+/-1.211 χ^2/NDF : 8664.5/31

Left In: -223.223+/-0.969 χ^2/NDF : 1269.3/22

Left: -223.801+/-0.681 χ^2/NDF : 3373.2/47

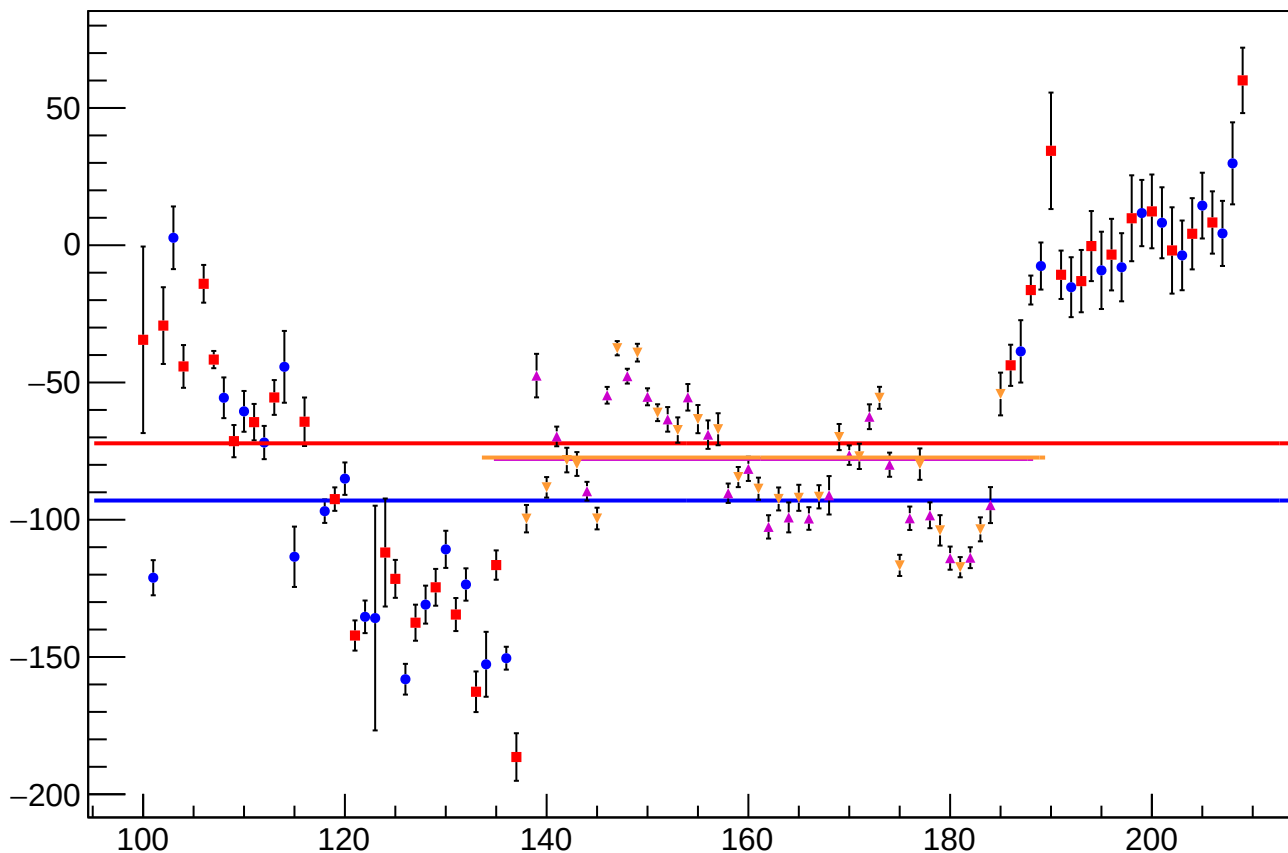
Right: -301.878+/-0.954 χ^2/NDF : 10918.5/59

In: -246.107+/-0.822 χ^2/NDF : 5501.0/50

Out: -253.488+/-0.750 χ^2/NDF : 13184.7/56

All: -250.132+/-0.554 χ^2/NDF : 18729.7/107

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -93.000 ± 1.460 $\chi^2/\text{NDF}: 1289.6/27$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -72.162 ± 1.282 $\chi^2/\text{NDF}: 1680.4/31$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

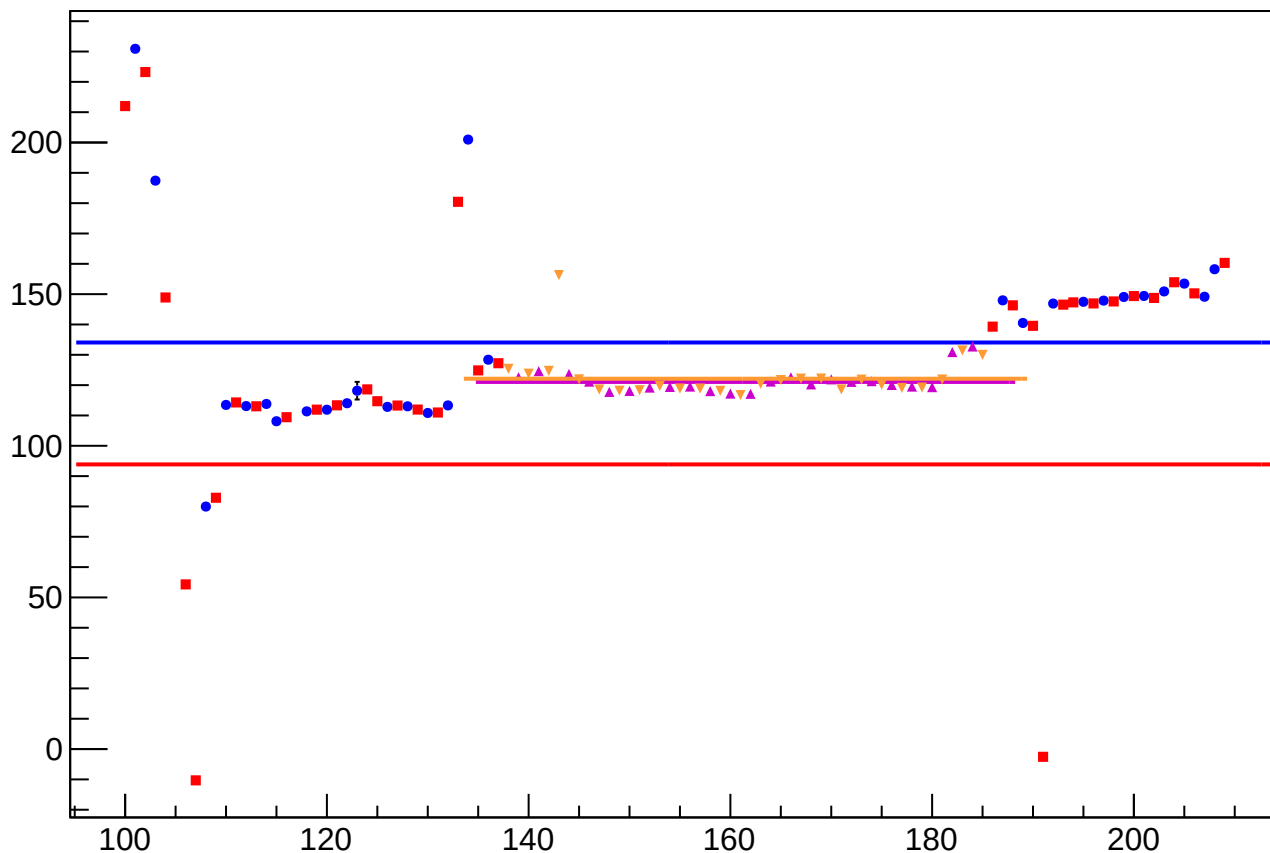
Right: -81.231 ± 0.963 $\chi^2/\text{NDF}: 3085.1/59$

In: -81.668 ± 0.734 $\chi^2/\text{NDF}: 1993.0/50$

Out: -75.821 ± 0.695 $\chi^2/\text{NDF}: 2538.2/56$

All: -78.585 ± 0.504 $\chi^2/\text{NDF}: 4564.7/107$

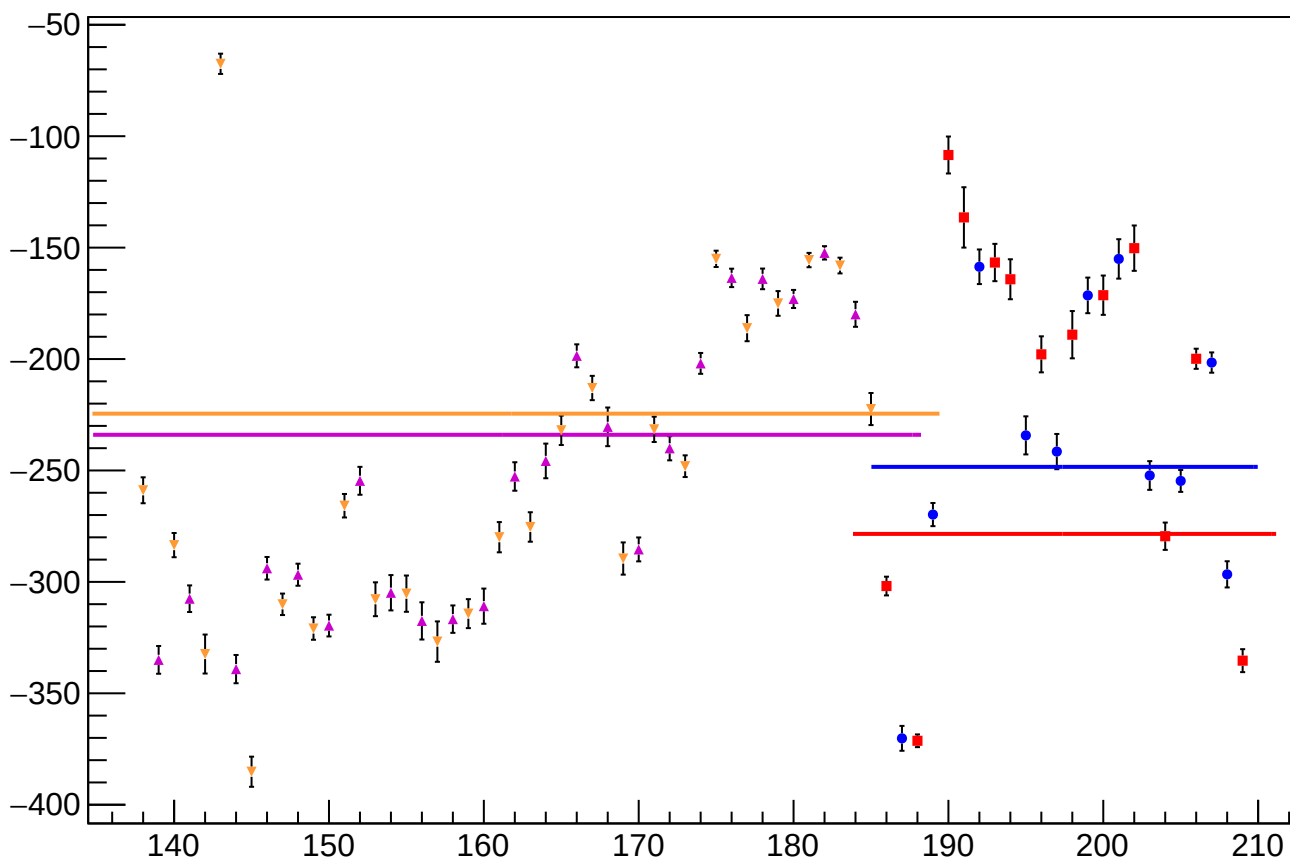
reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 134.058 $\pm$ 0.074 χ^2 /NDF: 206116.2/27
 Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24
 Right Out: 93.858 $\pm$ 0.062 χ^2 /NDF: 1144248.1/31
 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: 110.430 $\pm$ 0.048 χ^2 /NDF: 1523825.5/59
 In: 123.965 $\pm$ 0.035 χ^2 /NDF:238013.1/50
 Out: 113.980 $\pm$ 0.033 χ^2 /NDF:1322798.5/56
 All: 118.717 $\pm$ 0.024 χ^2 /NDF: 1603570.5/107

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -248.382 ± 1.868 $\chi^2/\text{NDF}: 1009.3/10$

Left Out: -224.501 ± 1.079 $\chi^2/\text{NDF}: 4870.6/24$

Right Out: -278.465 ± 1.609 $\chi^2/\text{NDF}: 2896.4/12$

Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$

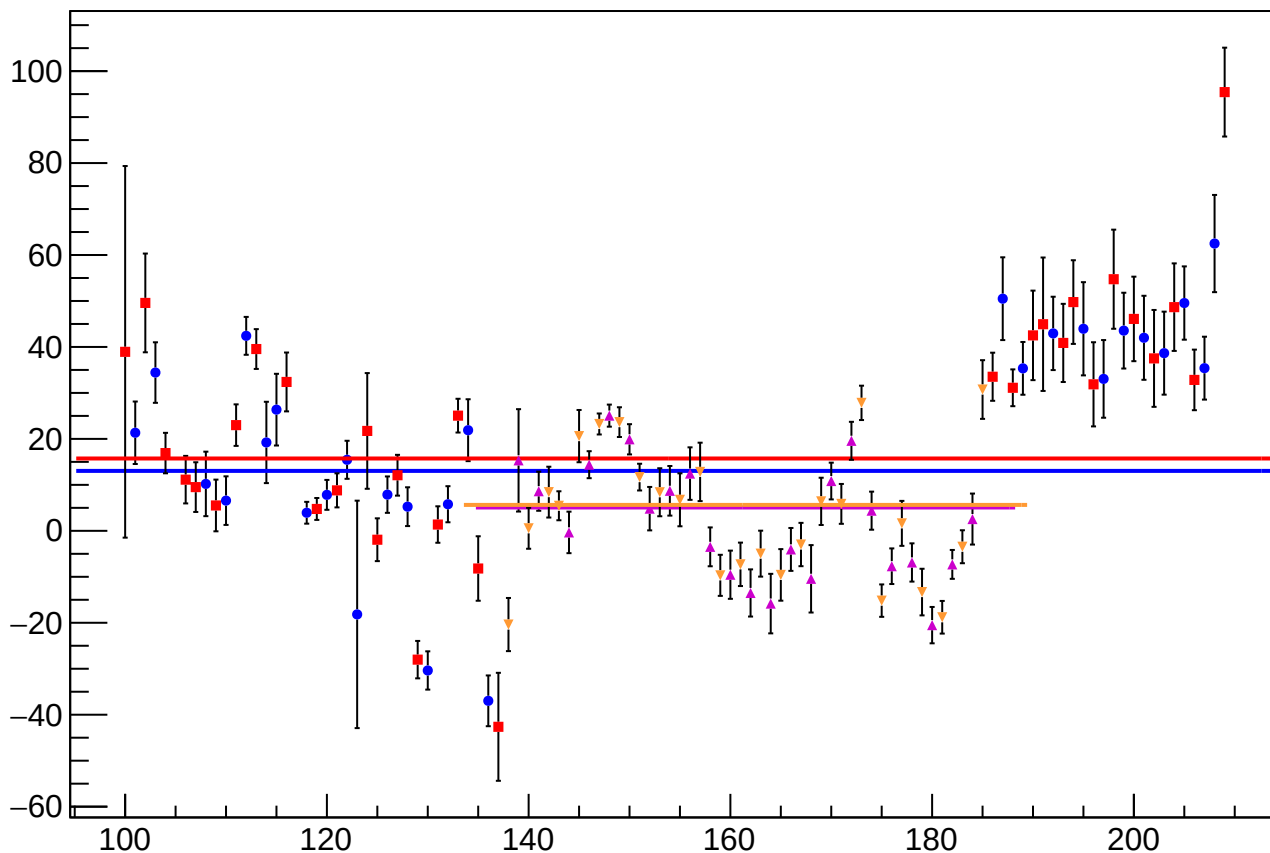
Right: -265.654 ± 1.219 $\chi^2/\text{NDF}: 4054.5/23$

In: -237.736 ± 0.953 $\chi^2/\text{NDF}: 4591.6/33$

Out: -241.241 ± 0.896 $\chi^2/\text{NDF}: 8542.8/37$

All: -239.597 ± 0.653 $\chi^2/\text{NDF}: 13141.6/71$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.038 $\pm$ 1.007 χ^2 /NDF: 434.9/27

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 15.736 $\pm$ 0.956 χ^2 /NDF: 445.6/31

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

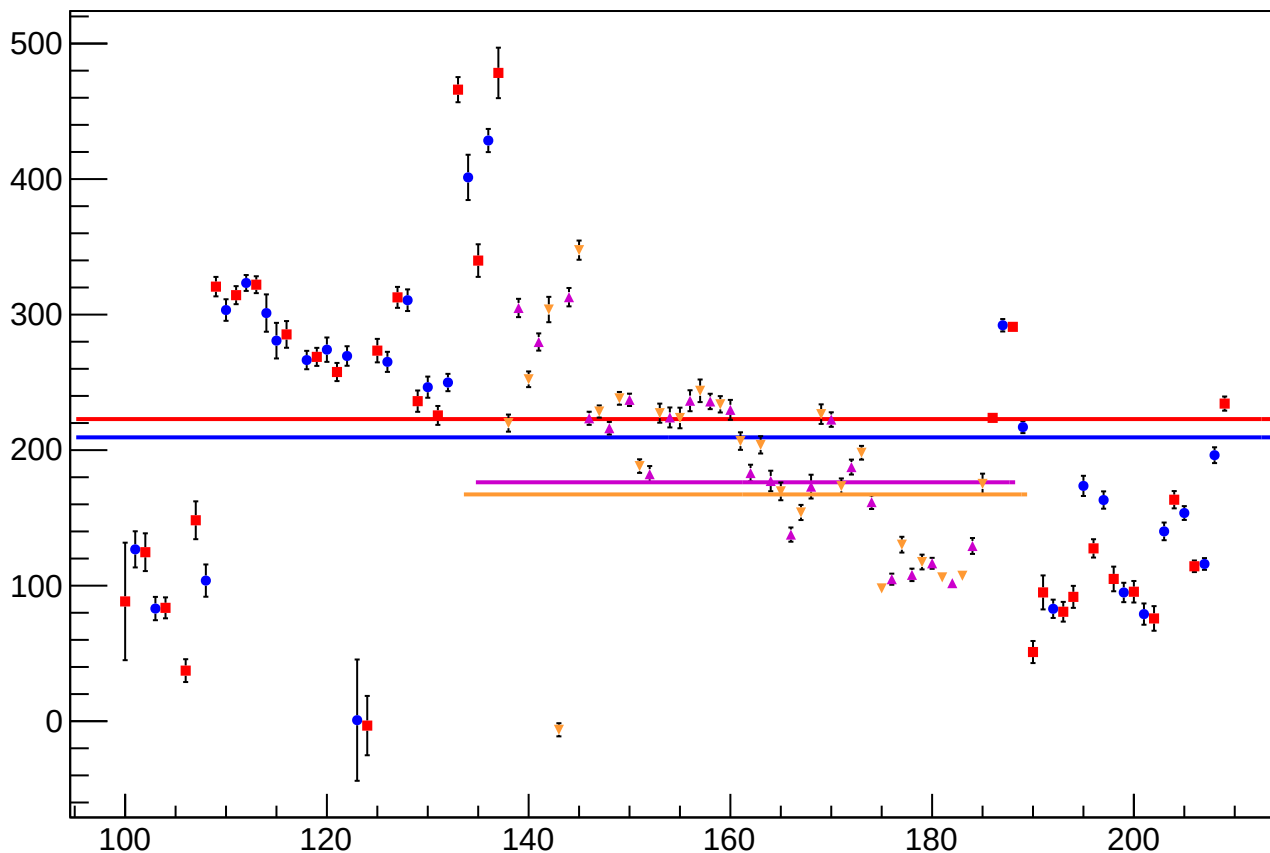
Right: 14.458 $\pm$ 0.693 χ^2 /NDF: 884.2/59

In: 8.474 $\pm$ 0.658 χ^2 /NDF:710.4/50

Out: 9.968 $\pm$ 0.626 χ^2 /NDF:823.0/56

All: 9.259 $\pm$ 0.453 χ^2 /NDF: 1536.1/107

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 209.427 $\pm$ 1.323 χ^2 /NDF: 4195.9/27

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 222.915 $\pm$ 1.143 χ^2 /NDF: 6576.0/31

Left In: 176.272 $\pm$ 1.106 χ^2 /NDF:3169.5/22

Left: 171.704 $\pm$ 0.774 χ^2 /NDF: 7657.4/47

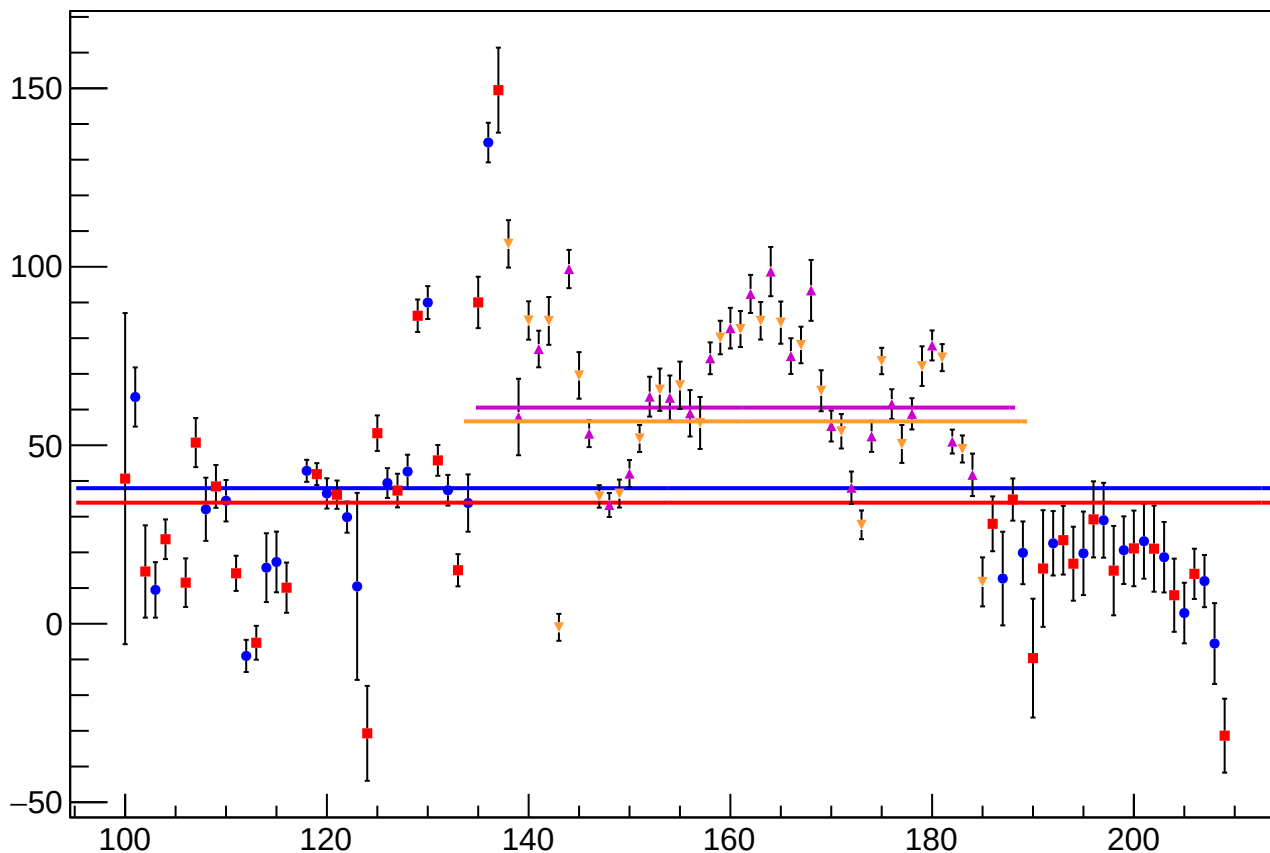
Right: 217.149 $\pm$ 0.865 χ^2 /NDF: 10831.4/59

In: 189.909 $\pm$ 0.848 χ^2 /NDF:7735.3/50

Out: 193.610 $\pm$ 0.786 χ^2 /NDF:12277.2/56

All: 191.901 $\pm$ 0.577 χ^2 /NDF: 20022.7/107

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 37.977 ± 1.169 $\chi^2/\text{NDF}: 652.0/27$

Left Out: 56.695 ± 0.952 $\chi^2/\text{NDF}: 690.4/24$

Right Out: 33.925 ± 1.120 $\chi^2/\text{NDF}: 549.9/31$

Left In: 60.555 ± 0.990 $\chi^2/\text{NDF}: 335.6/22$

Left: 58.548 ± 0.686 $\chi^2/\text{NDF}: 1034.0/47$

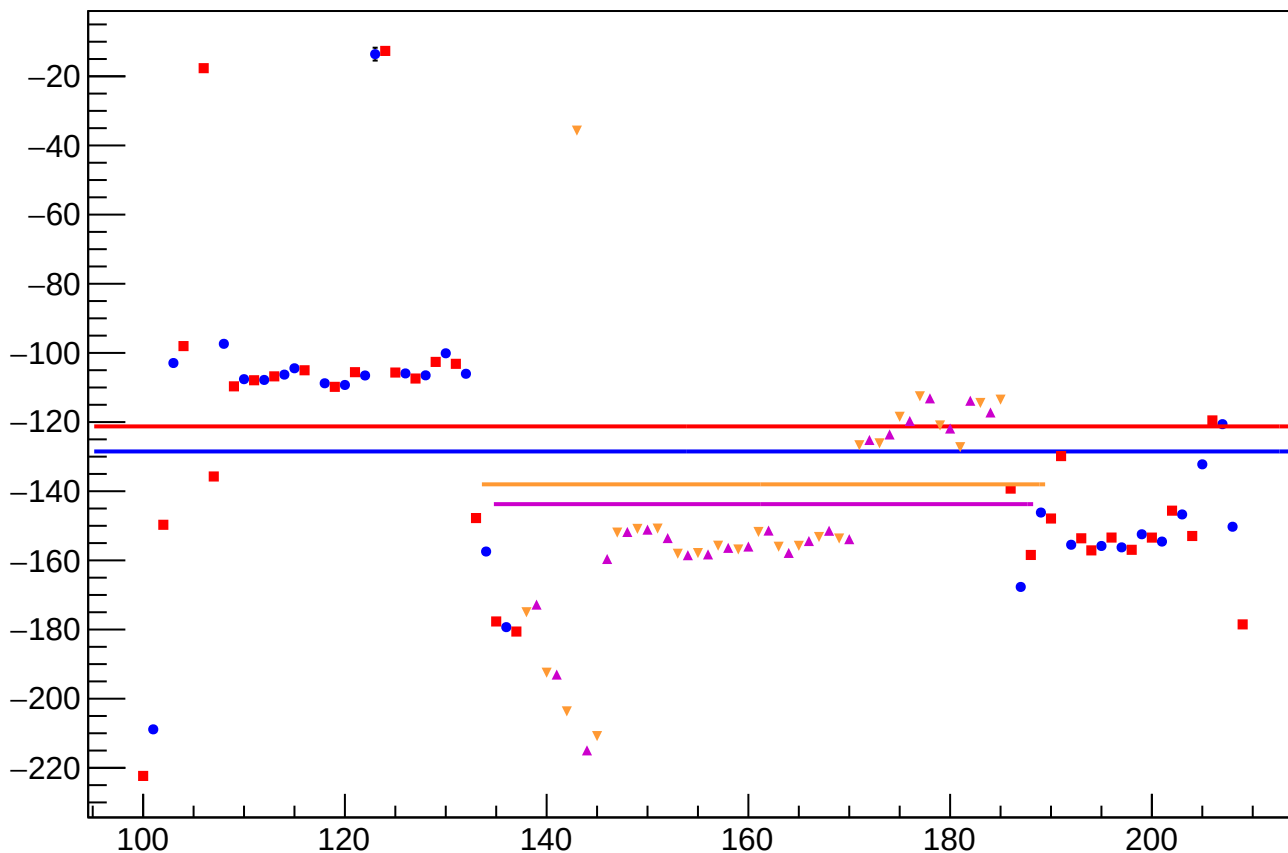
Right: 35.865 ± 0.809 $\chi^2/\text{NDF}: 1208.2/59$

In: 51.123 ± 0.756 $\chi^2/\text{NDF}: 1204.9/50$

Out: 47.151 ± 0.725 $\chi^2/\text{NDF}: 1480.2/56$

All: 49.056 ± 0.523 $\chi^2/\text{NDF}: 2699.5/107$

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -128.497 ± 0.062 $\chi^2/\text{NDF}: 208166.0/27$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -121.253 ± 0.058 $\chi^2/\text{NDF}: 469166.3/31$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

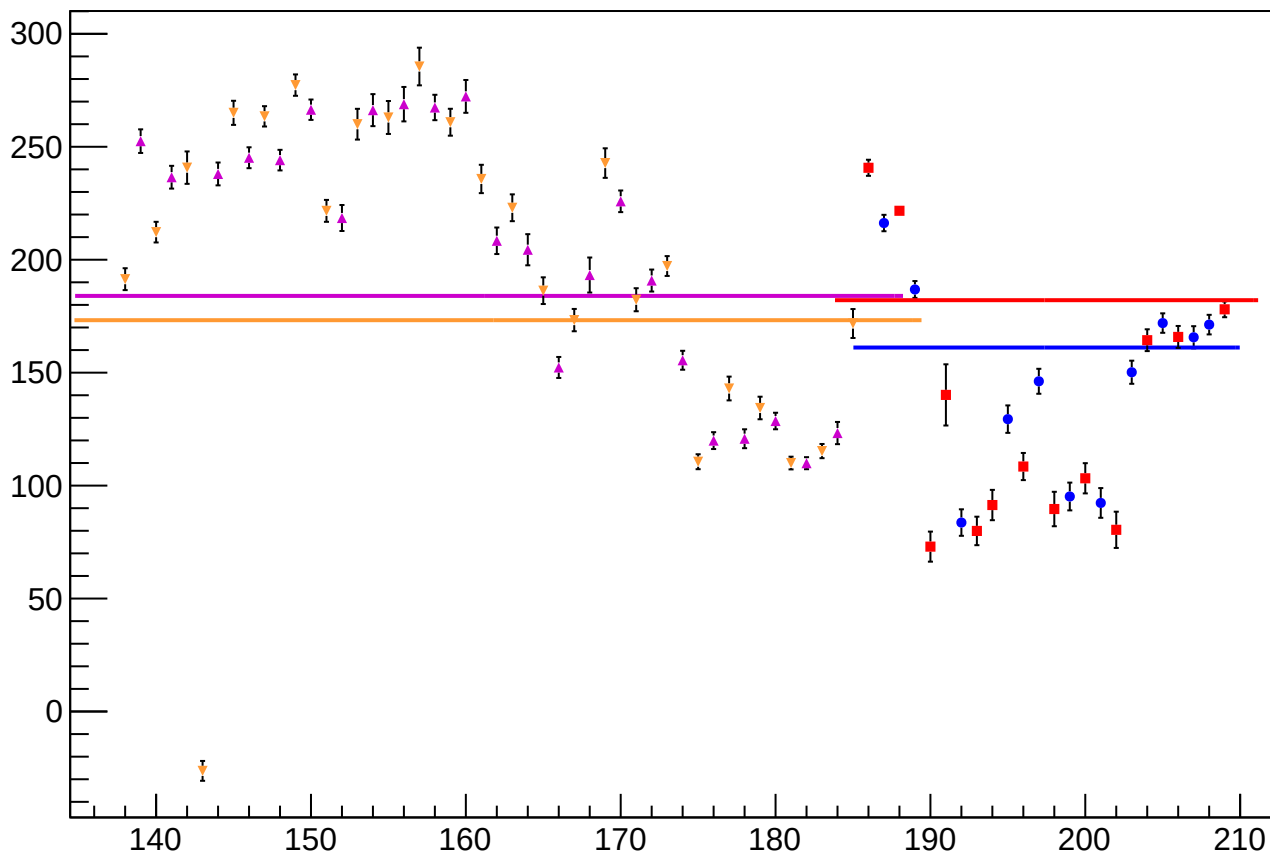
Right: -124.627 ± 0.043 $\chi^2/\text{NDF}: 684510.0/59$

In: -138.365 ± 0.037 $\chi^2/\text{NDF}: 505078.7/50$

Out: -131.737 ± 0.036 $\chi^2/\text{NDF}: 1086527.9/56$

All: -134.924 ± 0.026 $\chi^2/\text{NDF}: 1608181.3/10$

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 161.126 $\pm$ 1.454 χ^2 /NDF: 728.7/10

Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF: 5846.0/24

Right Out: 182.085 $\pm$ 1.202 χ^2 /NDF: 2068.1/12

Left In: 183.984 $\pm$ 0.991 χ^2 /NDF: 3613.7/22

Left: 178.467 $\pm$ 0.692 χ^2 /NDF: 9520.1/47

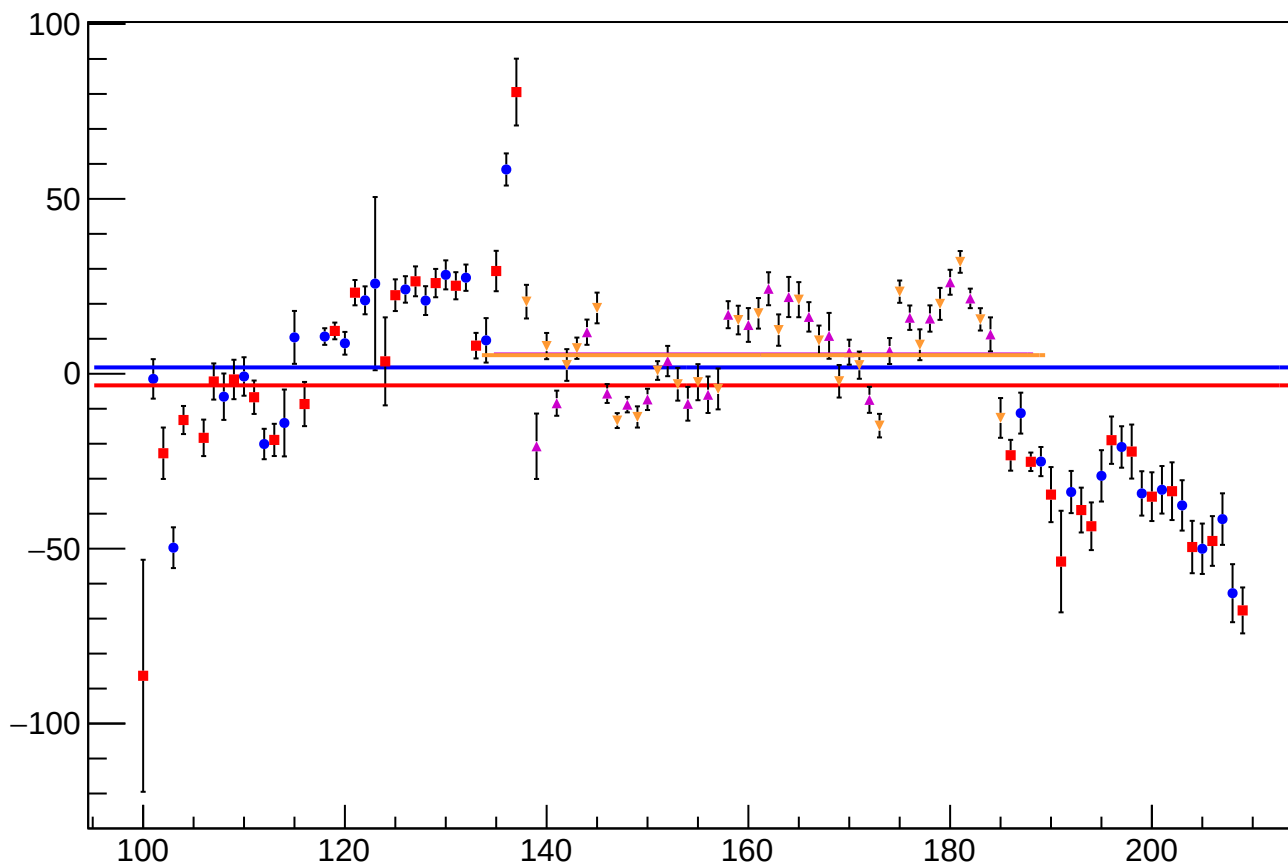
Right: 173.571 $\pm$ 0.926 χ^2 /NDF: 2920.2/23

In: 176.731 $\pm$ 0.819 χ^2 /NDF: 4511.1/33

Out: 176.702 $\pm$ 0.753 χ^2 /NDF: 7947.1/37

All: 176.715 $\pm$ 0.554 χ^2 /NDF: 12458.2/71

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.818 ± 0.935 χ^2/NDF : 798.7/27

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -3.319 ± 0.875 χ^2/NDF : 844.3/31

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

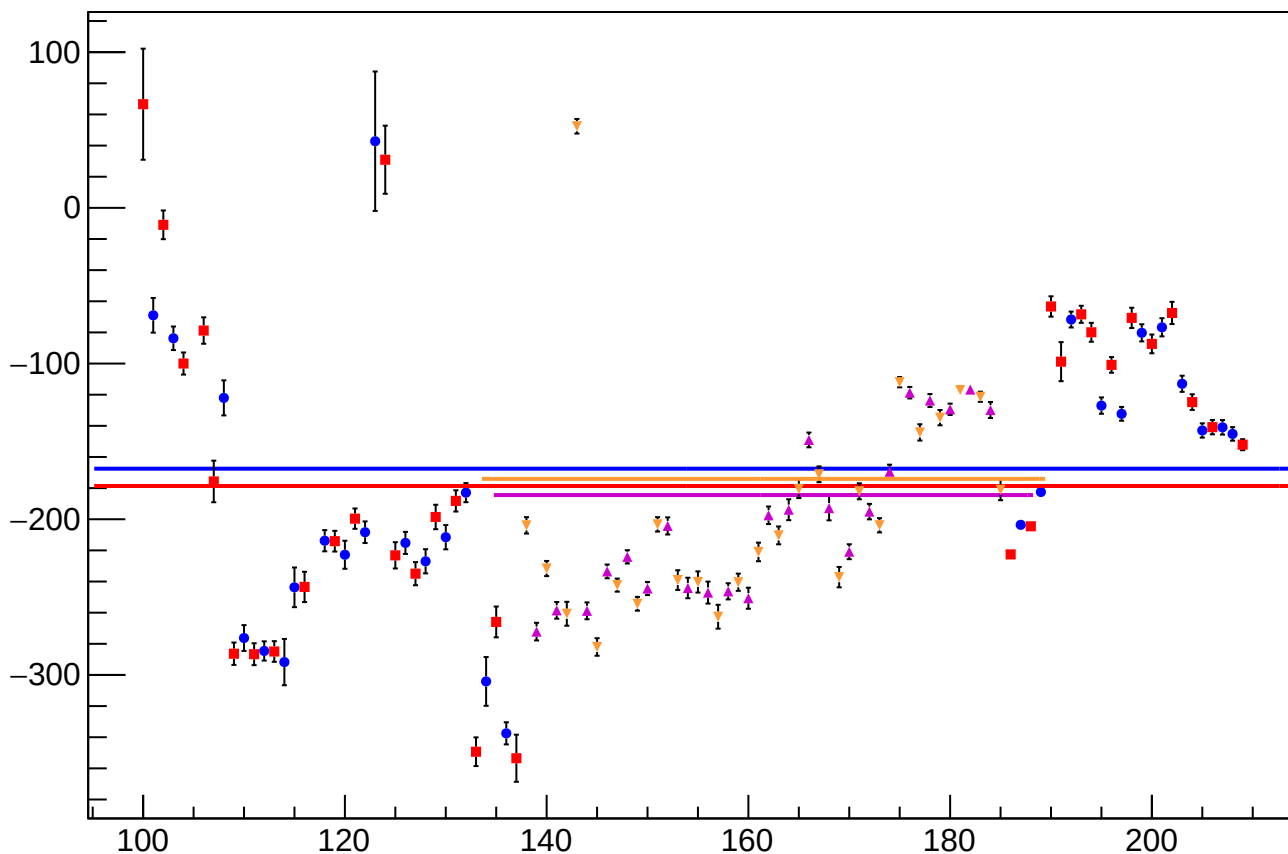
Right: -0.920 ± 0.639 χ^2/NDF : 1659.1/59

In: 4.003 ± 0.599 χ^2/NDF : 1064.3/50

Out: 1.679 ± 0.568 χ^2/NDF : 1246.2/56

All: 2.779 ± 0.412 χ^2/NDF : 2318.4/107

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -167.519 ± 1.097 χ^2/NDF : 3119.4/27

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -178.640 ± 0.911 χ^2/NDF : 4964.0/31

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

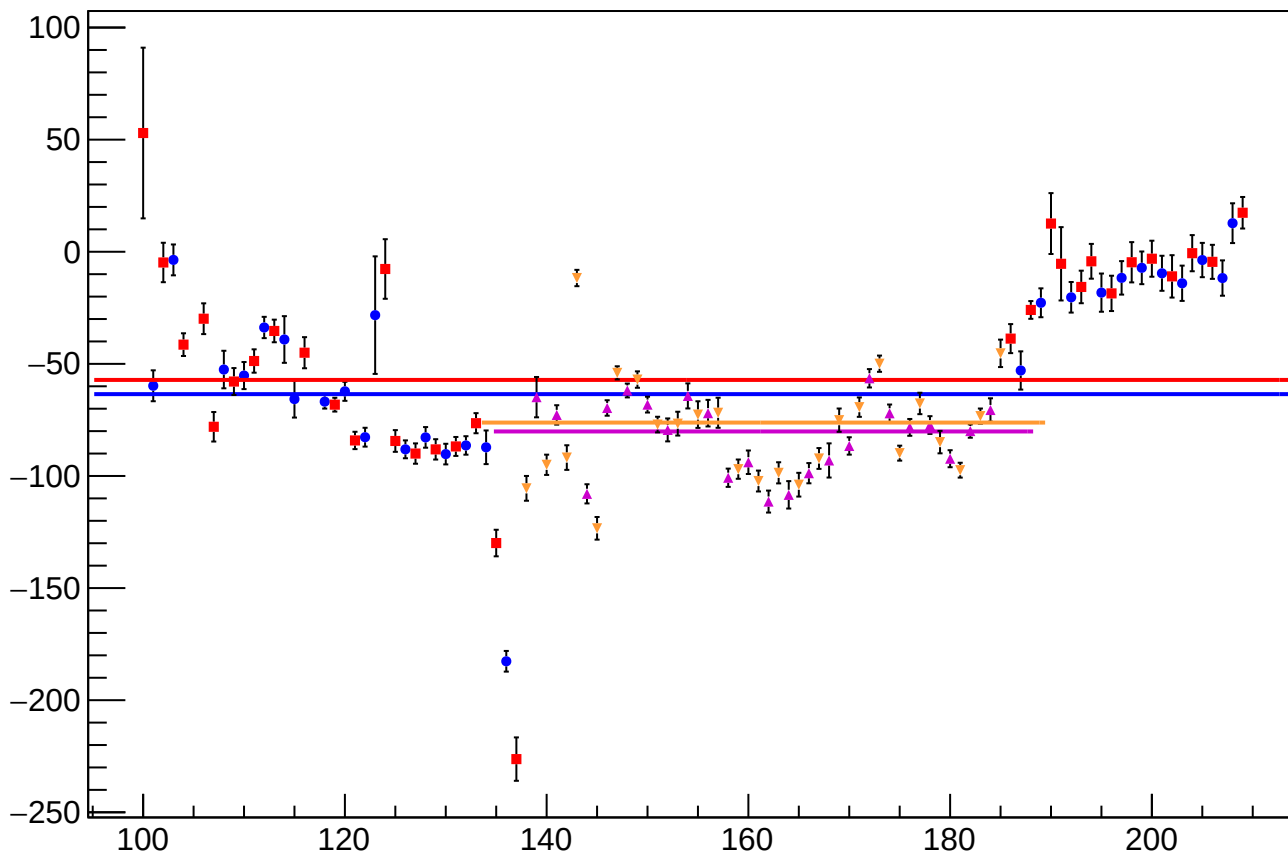
Right: -174.101 ± 0.701 χ^2/NDF : 8144.2/59

In: -176.851 ± 0.735 χ^2/NDF : 6302.2/50

Out: -176.496 ± 0.664 χ^2/NDF : 10419.1/56

All: -176.655 ± 0.493 χ^2/NDF : 16721.5/107

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -63.500 ± 1.091 $\chi^2/\text{NDF}: 1428.8/27$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -57.164 ± 1.040 $\chi^2/\text{NDF}: 1356.7/31$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

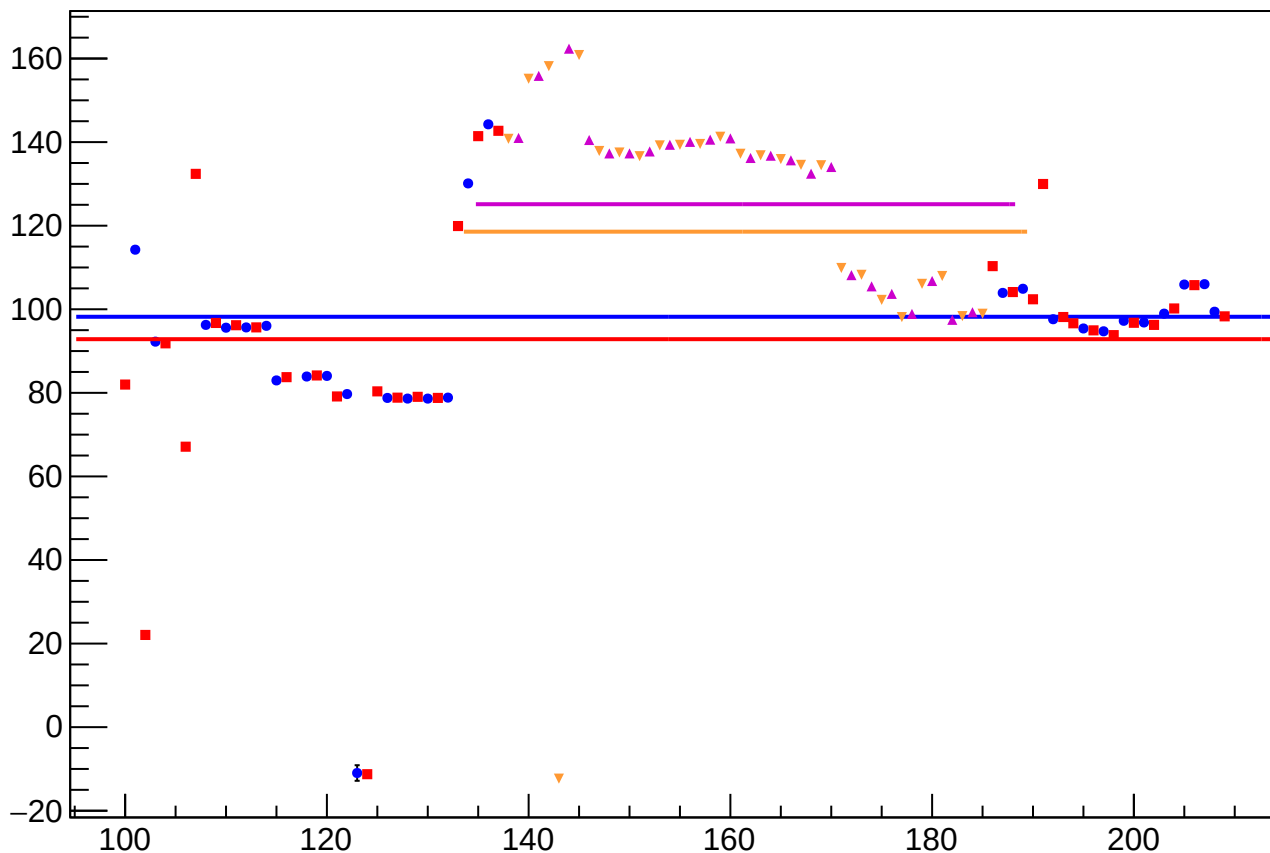
Right: -60.178 ± 0.753 $\chi^2/\text{NDF}: 2803.2/59$

In: -73.508 ± 0.689 $\chi^2/\text{NDF}: 1852.0/50$

Out: -68.484 ± 0.661 $\chi^2/\text{NDF}: 2357.0/56$

All: -70.892 ± 0.477 $\chi^2/\text{NDF}: 4236.6/107$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.205 $\pm$ 0.055 χ^2 /NDF: 96089.3/27

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 92.842 $\pm$ 0.051 χ^2 /NDF: 243446.5/31

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

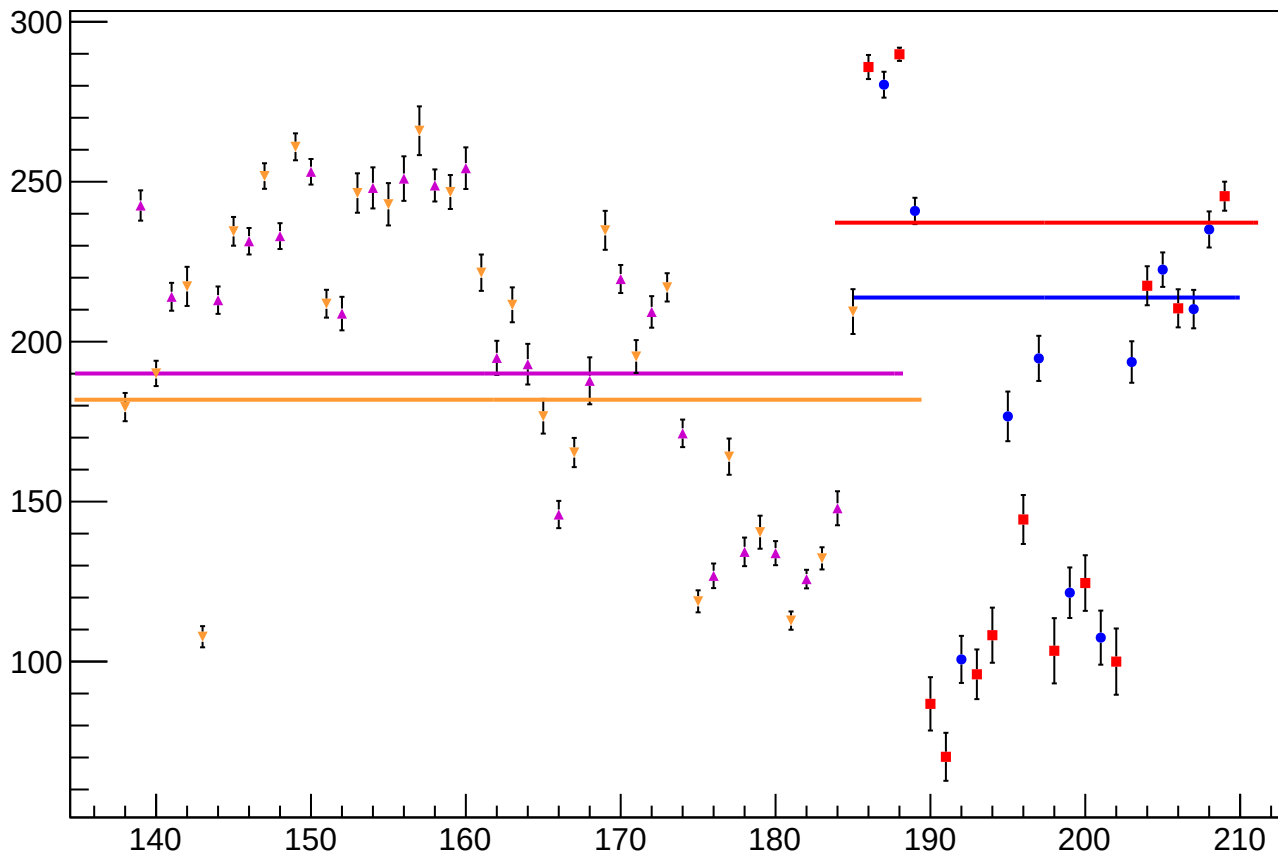
Right: 95.324 $\pm$ 0.037 χ^2 /NDF: 344654.6/59

In: 115.419 $\pm$ 0.033 χ^2 /NDF: 470631.1/50

Out: 108.620 $\pm$ 0.032 χ^2 /NDF: 1128241.5/56

All: 111.884 $\pm$ 0.023 χ^2 /NDF: 1620941.2/107

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 213.795 $\pm$ 1.760 χ^2 /NDF: 901.6/10

Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF:3303.4/24

Right Out: 237.205 $\pm$ 1.387 χ^2 /NDF: 2887.6/12

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

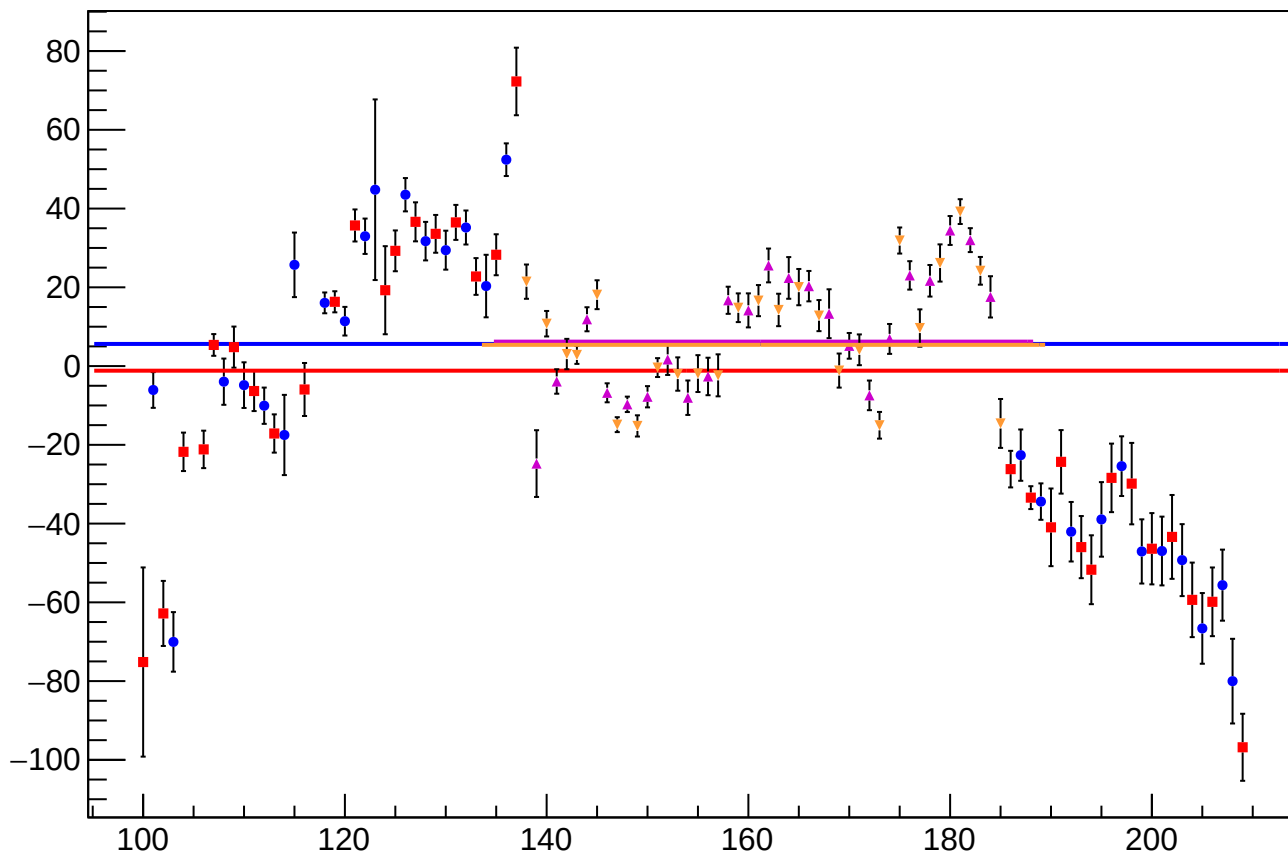
Right: 228.235 $\pm$ 1.090 χ^2 /NDF: 3898.3/23

In: 195.429 $\pm$ 0.838 χ^2 /NDF:3480.7/33

Out: 198.585 $\pm$ 0.763 χ^2 /NDF:7301.4/37

All: 197.155 $\pm$ 0.564 χ^2 /NDF: 10789.9/71

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.621 ± 1.041 χ^2/NDF : 963.9/27

Left Out: 5.394 ± 0.688 χ^2/NDF : 526.5/24

Right Out: -1.170 ± 0.932 χ^2/NDF : 1106.3/31

Left In: 6.206 ± 0.732 χ^2/NDF : 407.5/22

Left: 5.775 ± 0.501 χ^2/NDF : 934.7/47

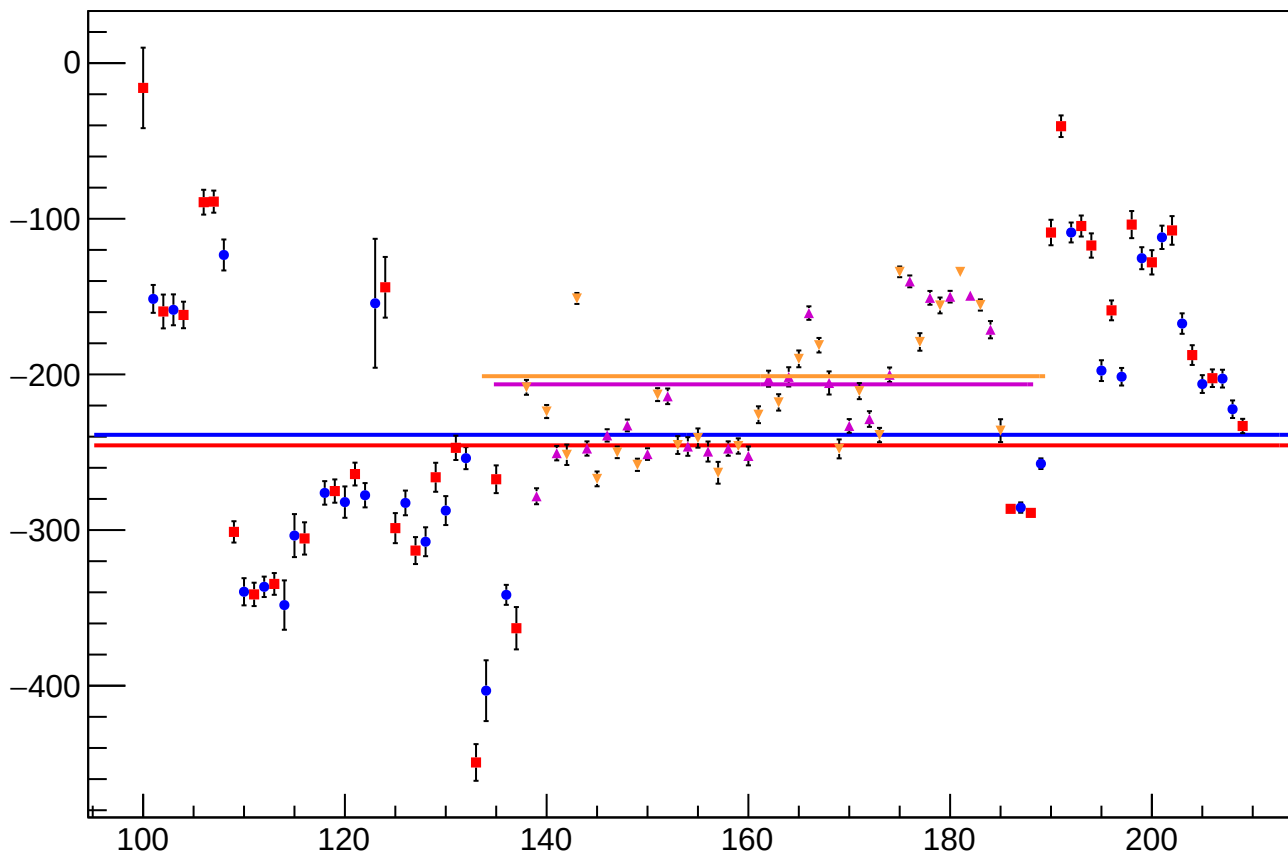
Right: 1.851 ± 0.694 χ^2/NDF : 2093.9/59

In: 6.013 ± 0.599 χ^2/NDF : 1371.6/50

Out: 3.078 ± 0.554 χ^2/NDF : 1665.0/56

All: 4.431 ± 0.406 χ^2/NDF : 3049.6/107

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -238.806 ± 1.274 χ^2/NDF : 2700.6/27

Left Out: -201.144 ± 0.918 χ^2/NDF : 2488.8/24

Right Out: -245.583 ± 1.020 χ^2/NDF : 5829.5/31

Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47

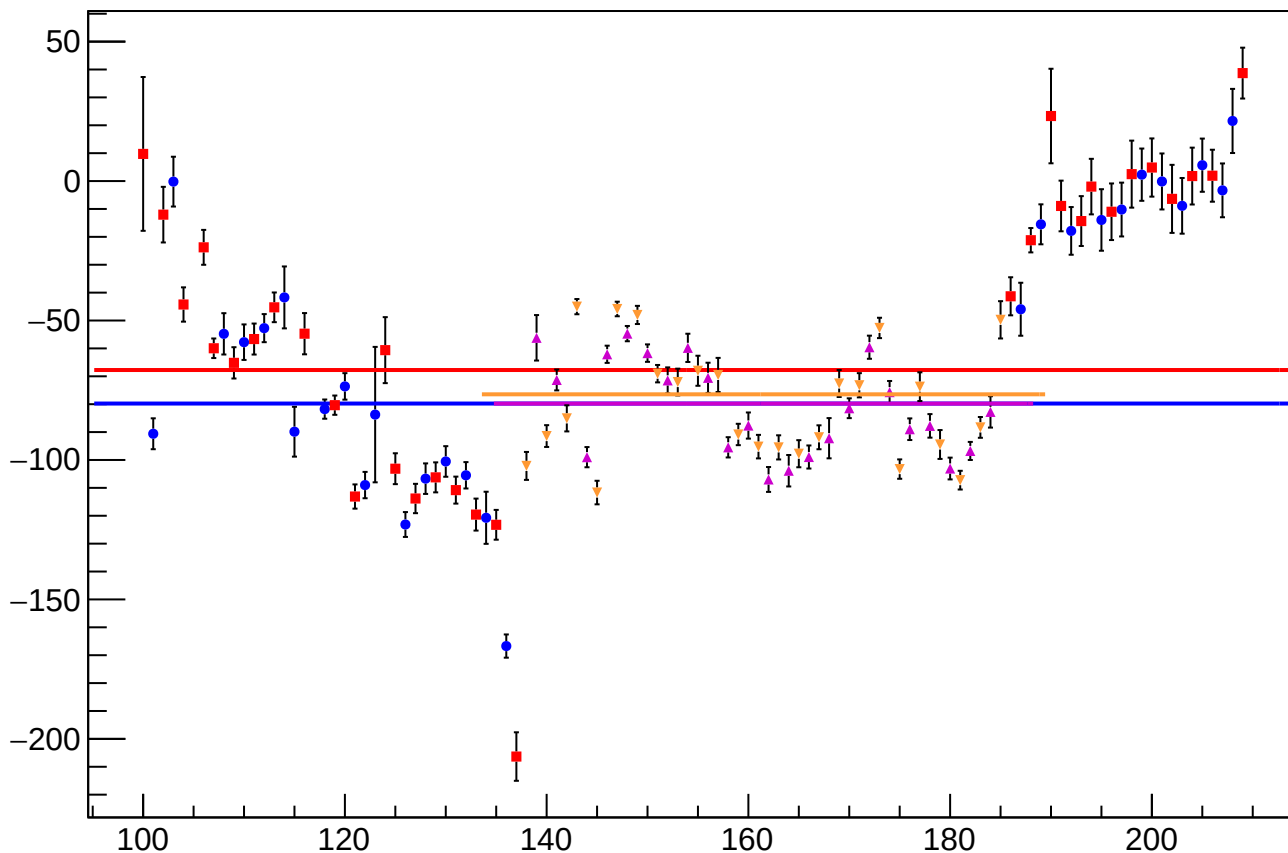
Right: -242.934 ± 0.796 χ^2/NDF : 8547.4/59

In: -217.963 ± 0.761 χ^2/NDF : 5228.8/50

Out: -221.022 ± 0.682 χ^2/NDF : 9366.9/56

All: -219.660 ± 0.508 χ^2/NDF : 14604.7/107

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -79.767 ± 1.215 $\chi^2/\text{NDF}: 1450.4/27$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -67.749 ± 1.112 $\chi^2/\text{NDF}: 1604.1/31$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

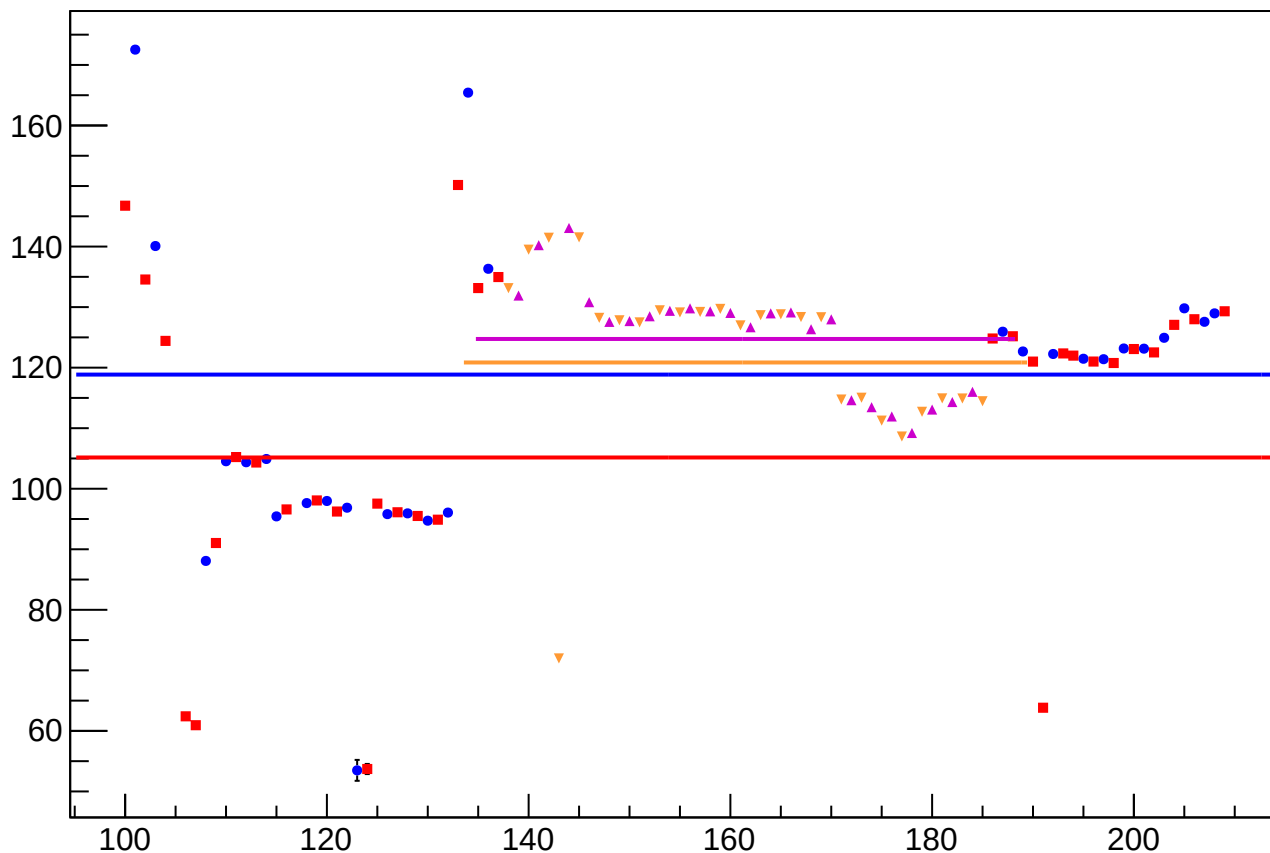
Right: -73.228 ± 0.820 $\chi^2/\text{NDF}: 3107.8/59$

In: -79.784 ± 0.691 $\chi^2/\text{NDF}: 1862.7/50$

Out: -73.505 ± 0.648 $\chi^2/\text{NDF}: 2426.0/56$

All: -76.442 ± 0.472 $\chi^2/\text{NDF}: 4332.7/107$

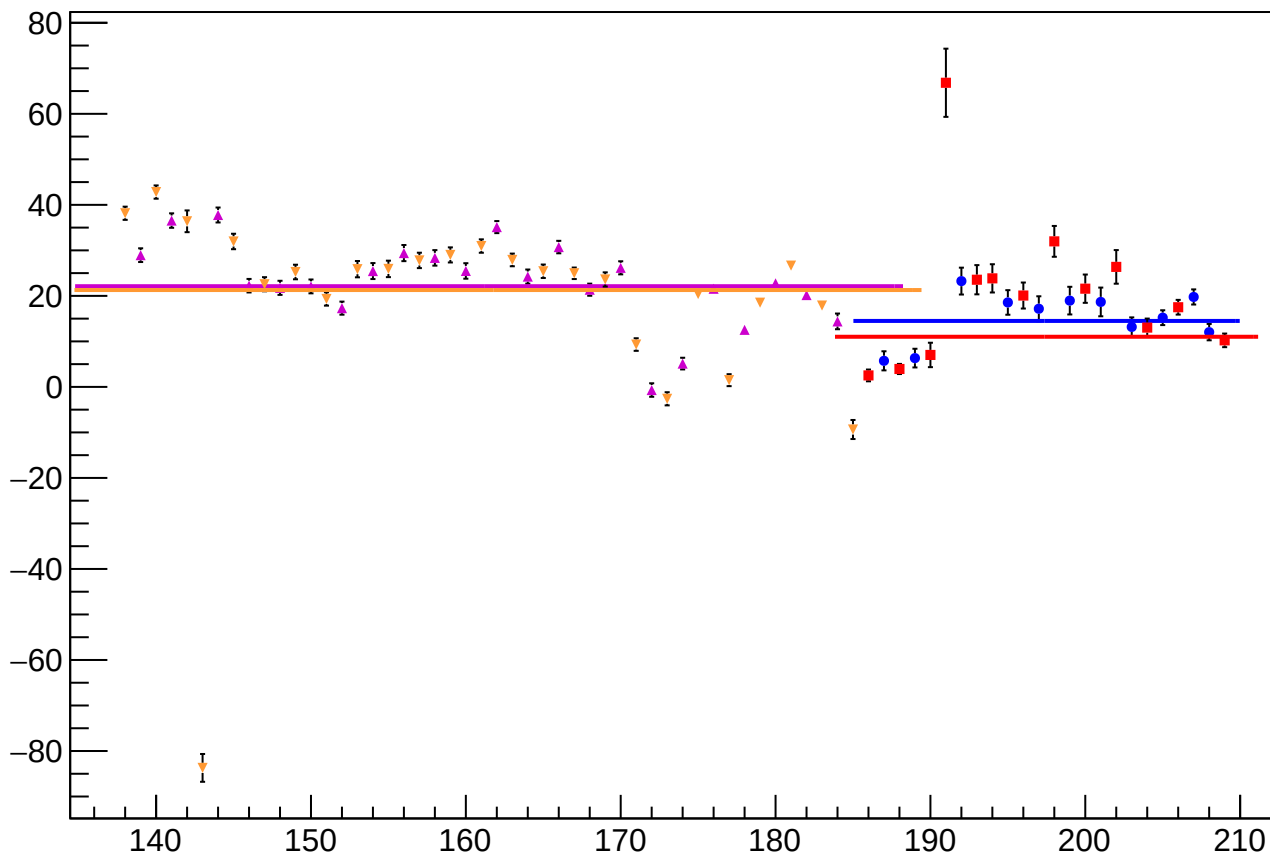
reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 118.854 $\pm$ 0.063 χ^2 /NDF: 109914.9/27
 Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24
 Right Out: 105.161 $\pm$ 0.055 χ^2 /NDF: 245991.0/31
 Left In: 124.738 $\pm$ 0.039 χ^2 /NDF:51298.3/22

Left: 122.737 $\pm$ 0.027 χ^2 /NDF: 239101.1/47
 Right: 111.080 $\pm$ 0.041 χ^2 /NDF: 383075.7/59
 In: 123.077 $\pm$ 0.033 χ^2 /NDF:167556.2/50
 Out: 115.726 $\pm$ 0.031 χ^2 /NDF:484332.9/56
 All: 119.171 $\pm$ 0.023 χ^2 /NDF: 677861.9/107

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.495 $\pm$ 0.655 χ^2 /NDF: 61.7/10

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 11.018 $\pm$ 0.556 χ^2 /NDF: 268.0/12

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

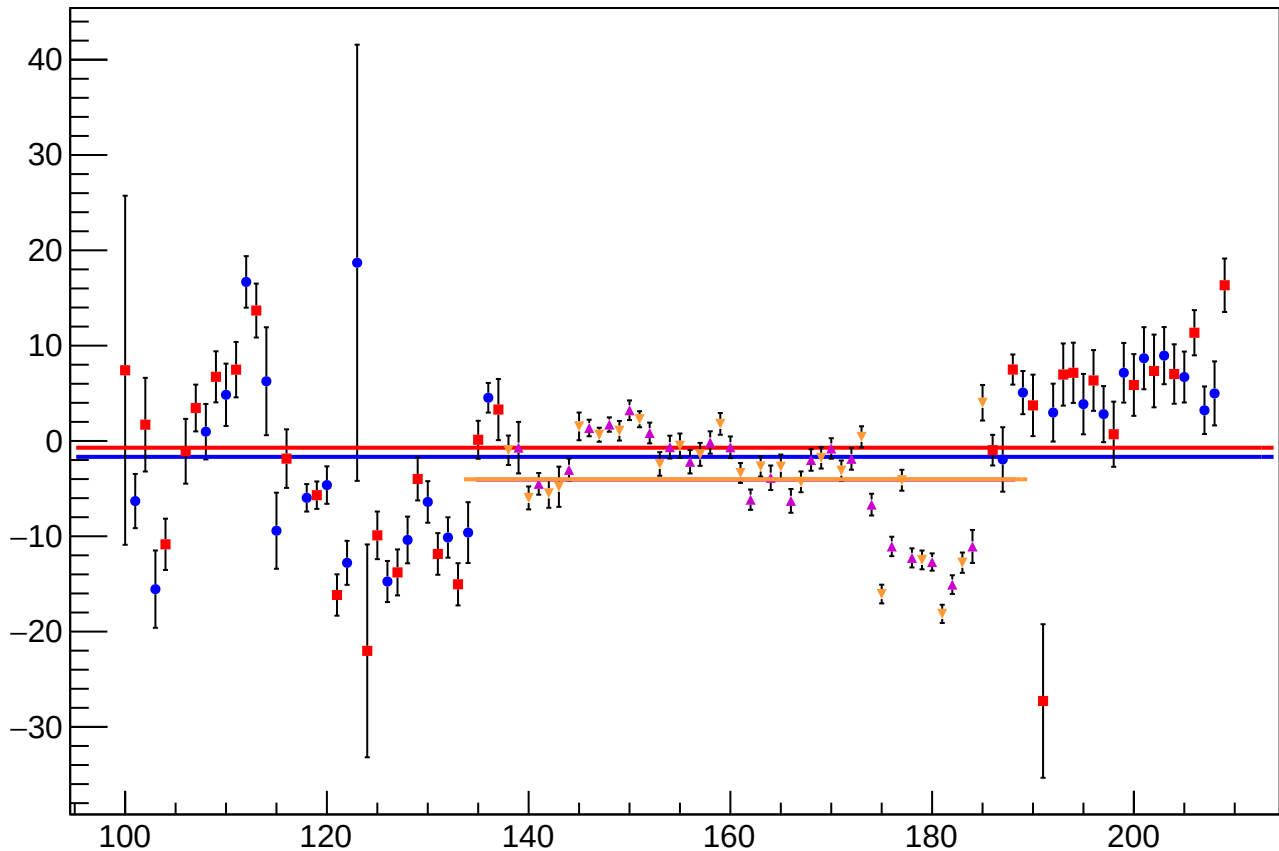
Right: 12.476 $\pm$ 0.424 χ^2 /NDF: 346.1/23

In: 20.907 $\pm$ 0.262 χ^2 /NDF:1076.2/33

Out: 19.179 $\pm$ 0.252 χ^2 /NDF:3139.1/37

All: 20.010 $\pm$ 0.181 χ^2 /NDF: 4237.9/71

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.669 ± 0.489 $\chi^2/\text{NDF}: 263.0/27$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -0.709 ± 0.458 $\chi^2/\text{NDF}: 374.2/31$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

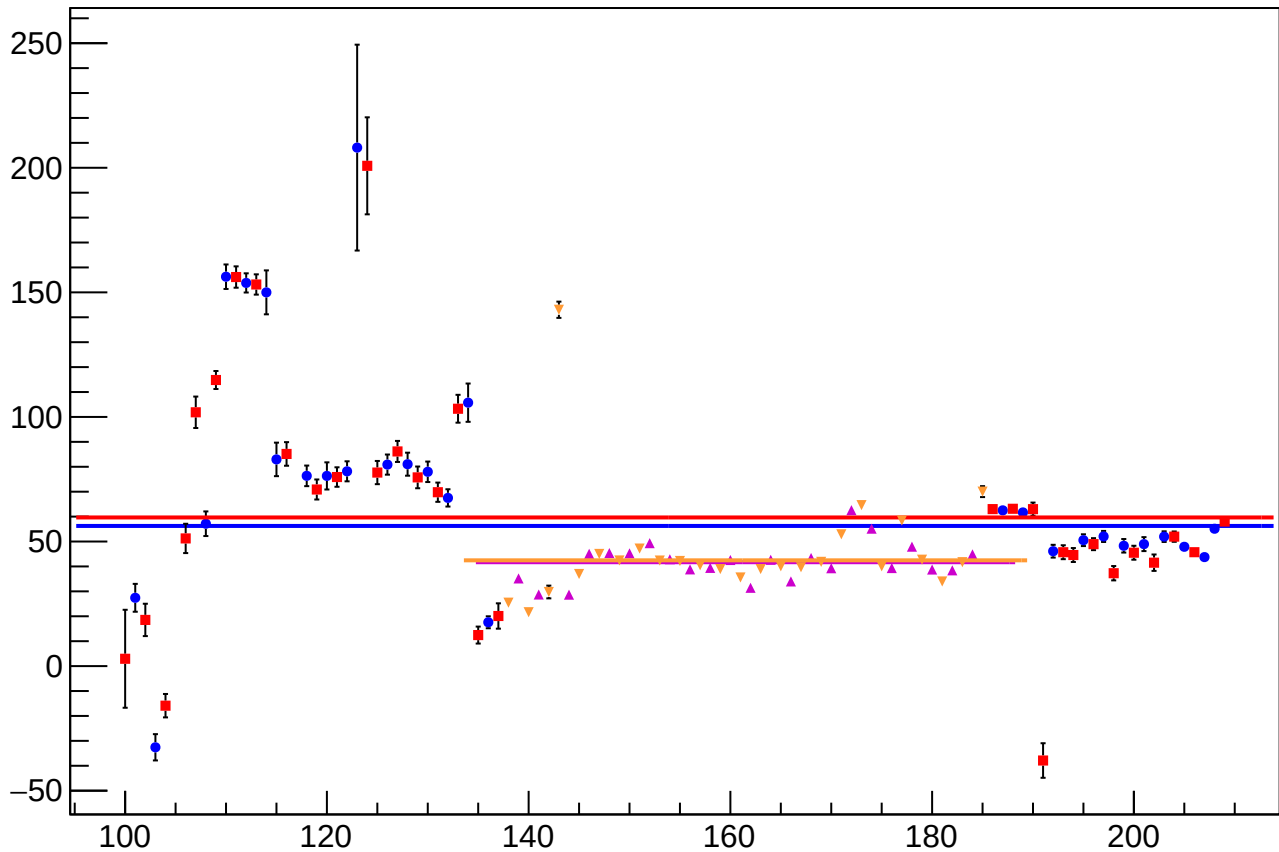
Right: -1.157 ± 0.334 $\chi^2/\text{NDF}: 639.3/59$

In: -3.631 ± 0.207 $\chi^2/\text{NDF}: 859.9/50$

Out: -3.386 ± 0.201 $\chi^2/\text{NDF}: 1150.6/56$

All: -3.505 ± 0.144 $\chi^2/\text{NDF}: 2011.3/107$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.254 $\pm$ 0.529 χ^2 /NDF: 2134.3/27

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF:2016.0/24

Right Out: 59.660 $\pm$ 0.444 χ^2 /NDF: 2629.0/31

Left In: 41.695 $\pm$ 0.284 χ^2 /NDF:630.2/22

Left: 42.077 $\pm$ 0.200 χ^2 /NDF: 2649.8/47

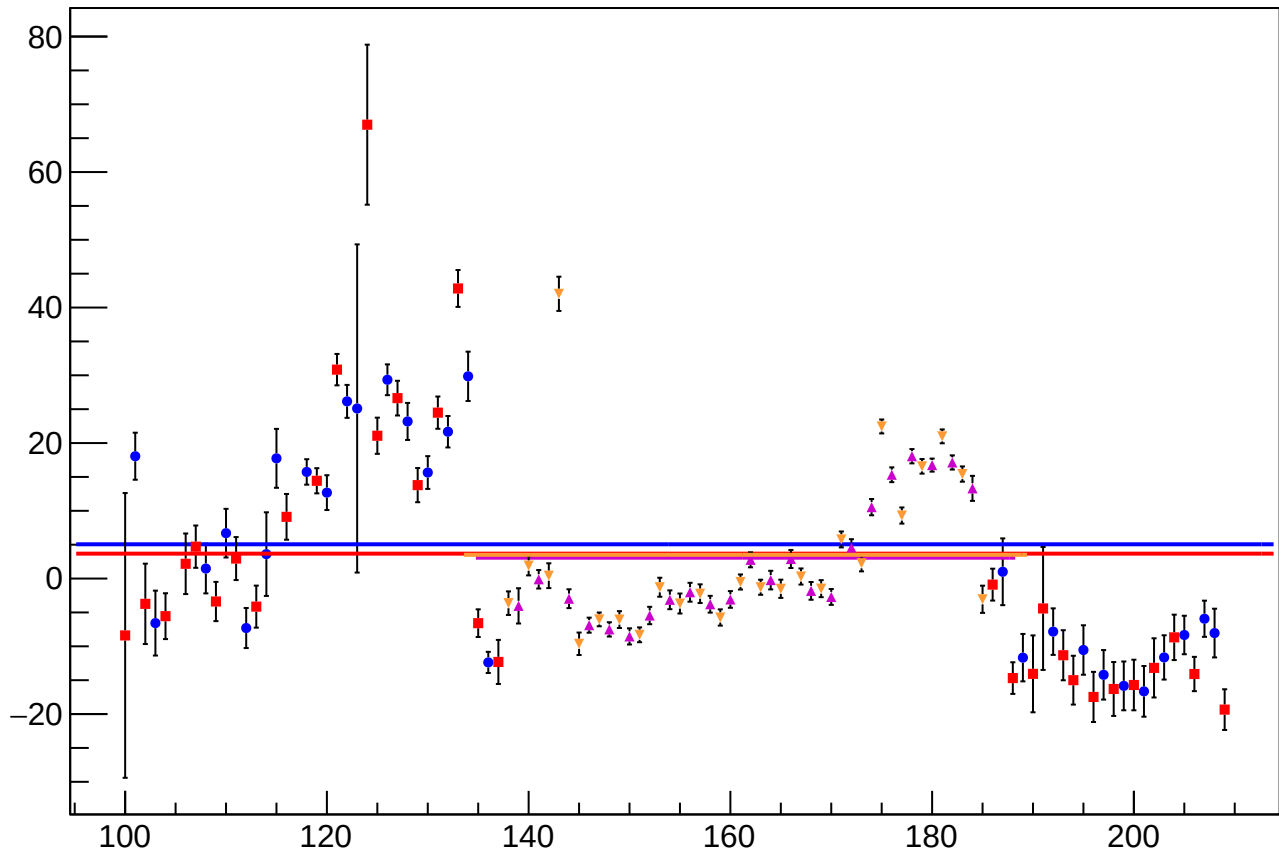
Right: 58.250 $\pm$ 0.340 χ^2 /NDF: 4787.6/59

In: 44.958 $\pm$ 0.250 χ^2 /NDF:3353.1/50

Out: 47.389 $\pm$ 0.238 χ^2 /NDF:5713.8/56

All: 46.234 $\pm$ 0.172 χ^2 /NDF: 9116.5/107

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.060 $\pm$ 0.560 χ^2 /NDF: 793.4/27

Left Out: 3.505 $\pm$ 0.252 χ^2 /NDF:1691.3/24

Right Out: 3.677 $\pm$ 0.540 χ^2 /NDF: 1036.4/31

Left In: 3.081 $\pm$ 0.257 χ^2 /NDF:1265.7/22

Left: 3.297 $\pm$ 0.180 χ^2 /NDF: 2958.4/47

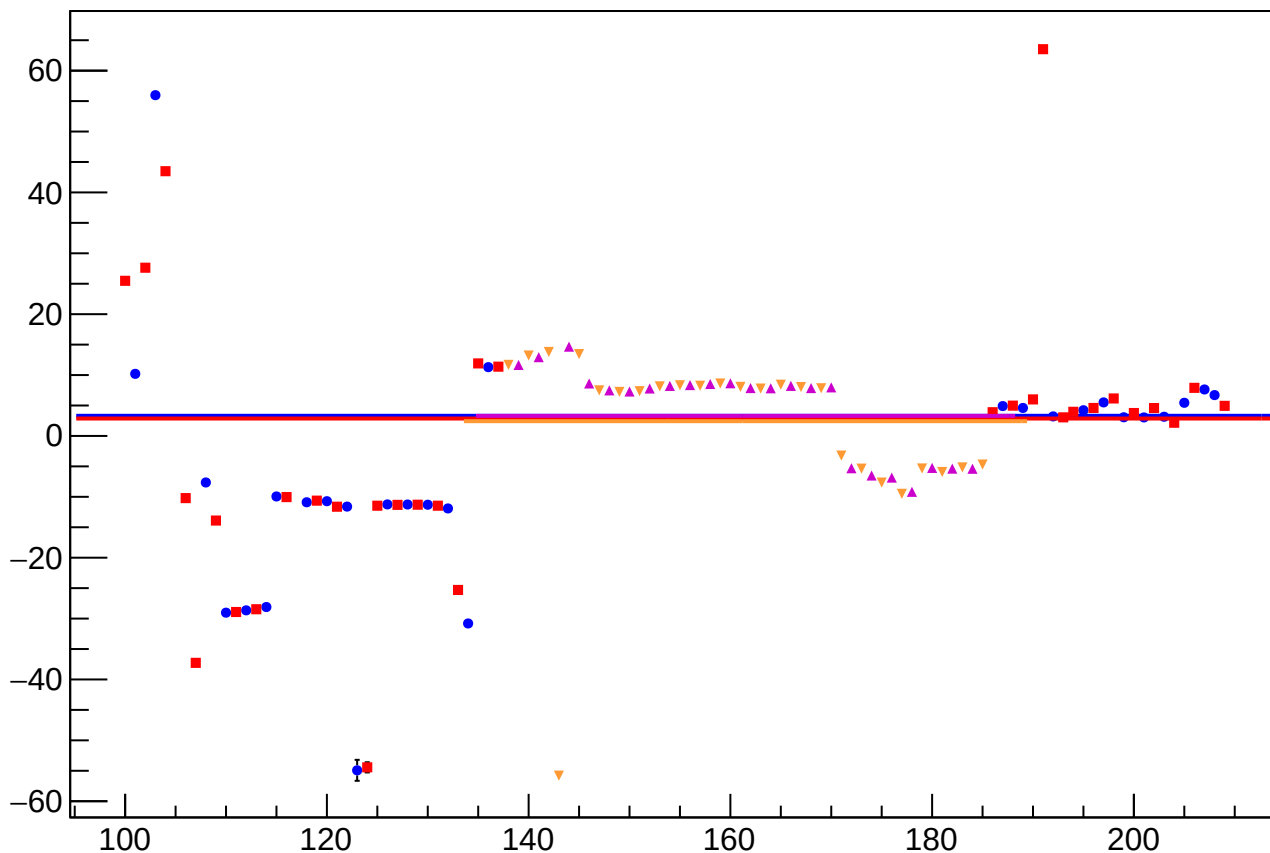
Right: 4.343 $\pm$ 0.389 χ^2 /NDF: 1833.0/59

In: 3.426 $\pm$ 0.234 χ^2 /NDF:2069.5/50

Out: 3.536 $\pm$ 0.229 χ^2 /NDF:2727.8/56

All: 3.482 $\pm$ 0.163 χ^2 /NDF: 4797.4/107

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.308 $\pm$ 0.026 χ^2 /NDF: 362267.9/27

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.860 $\pm$ 0.025 χ^2 /NDF: 434480.1/31

Left In: 3.293 $\pm$ 0.012 χ^2 /NDF: 404323.8/22

Left: 2.855 $\pm$ 0.008 χ^2 /NDF: 1023497.1/47

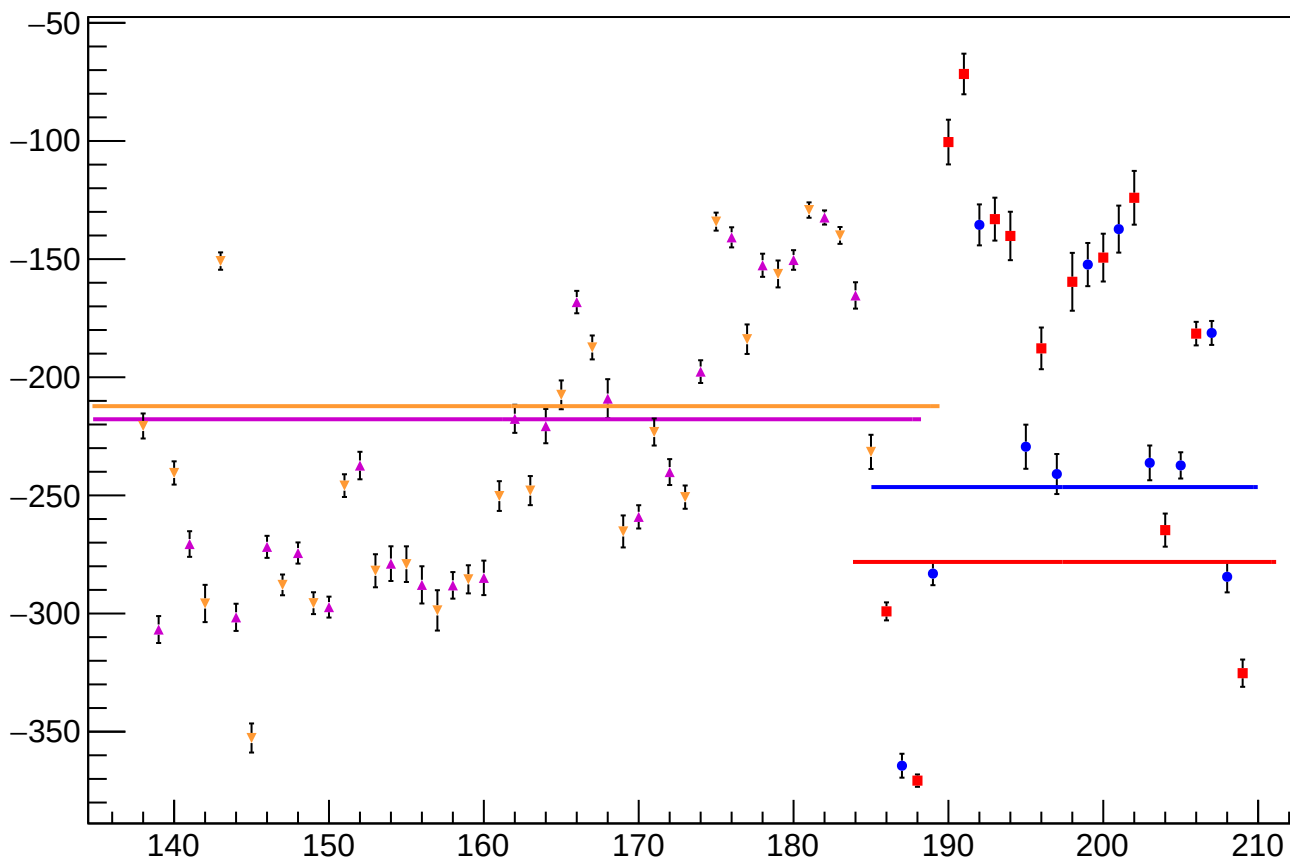
Right: 3.077 $\pm$ 0.018 χ^2 /NDF: 796899.3/59

In: 3.295 $\pm$ 0.011 χ^2 /NDF: 766592.0/50

Out: 2.500 $\pm$ 0.011 χ^2 /NDF: 1051105.9/56

All: 2.893 $\pm$ 0.007 χ^2 /NDF: 1820520.1/107

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -246.477 ± 1.983 $\chi^2/\text{NDF}: 1196.2/10$

Left Out: -212.231 ± 1.029 $\chi^2/\text{NDF}: 3875.4/24$

Right Out: -278.164 ± 1.602 $\chi^2/\text{NDF}: 3642.7/12$

Left In: -217.779 ± 1.067 $\chi^2/\text{NDF}: 3448.9/22$

Left: -214.906 ± 0.741 $\chi^2/\text{NDF}: 7338.3/47$

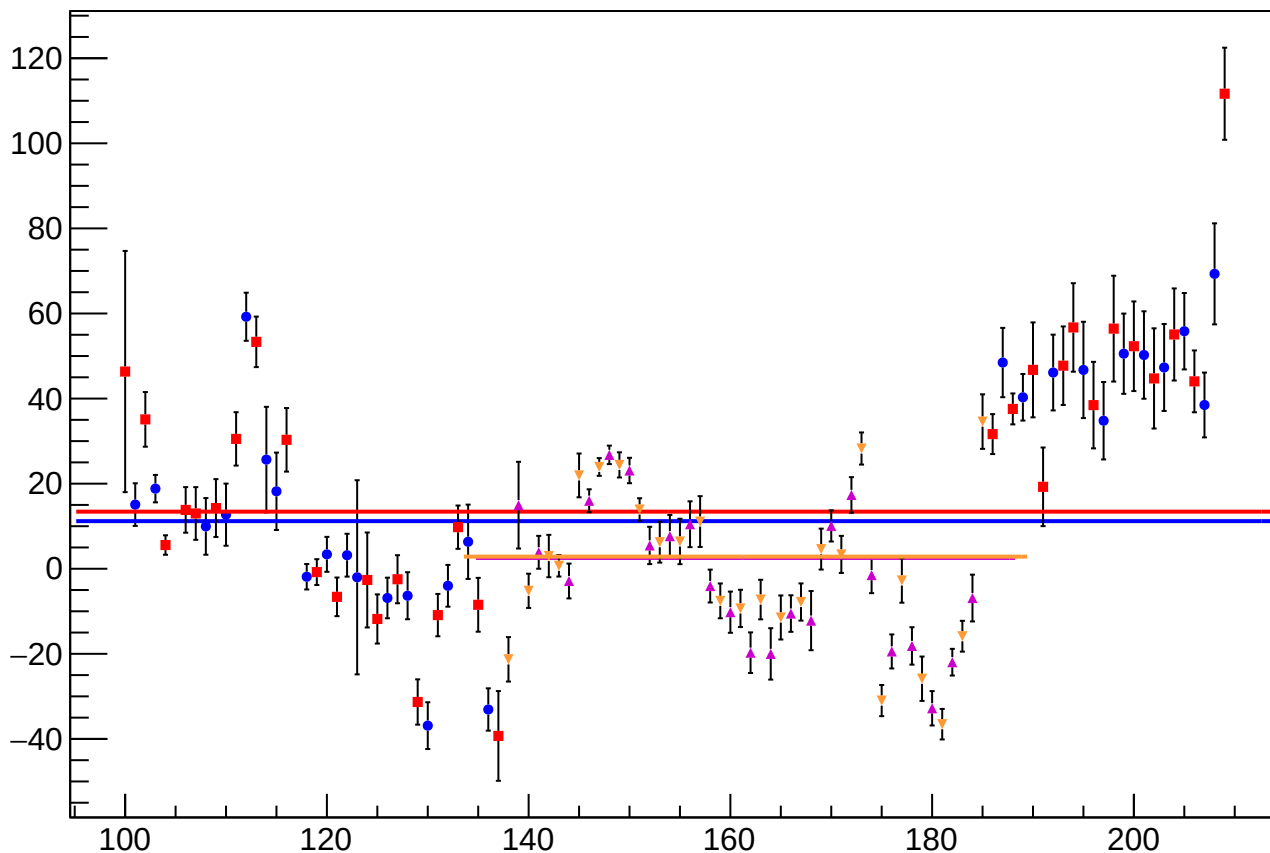
Right: -265.650 ± 1.246 $\chi^2/\text{NDF}: 4993.3/23$

In: -224.218 ± 0.940 $\chi^2/\text{NDF}: 4807.5/33$

Out: -231.491 ± 0.866 $\chi^2/\text{NDF}: 8716.5/37$

All: -228.150 ± 0.637 $\chi^2/\text{NDF}: 13556.4/71$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.189 ± 1.124 $\chi^2/\text{NDF}: 483.0/27$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 13.423 ± 1.013 $\chi^2/\text{NDF}: 537.9/31$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

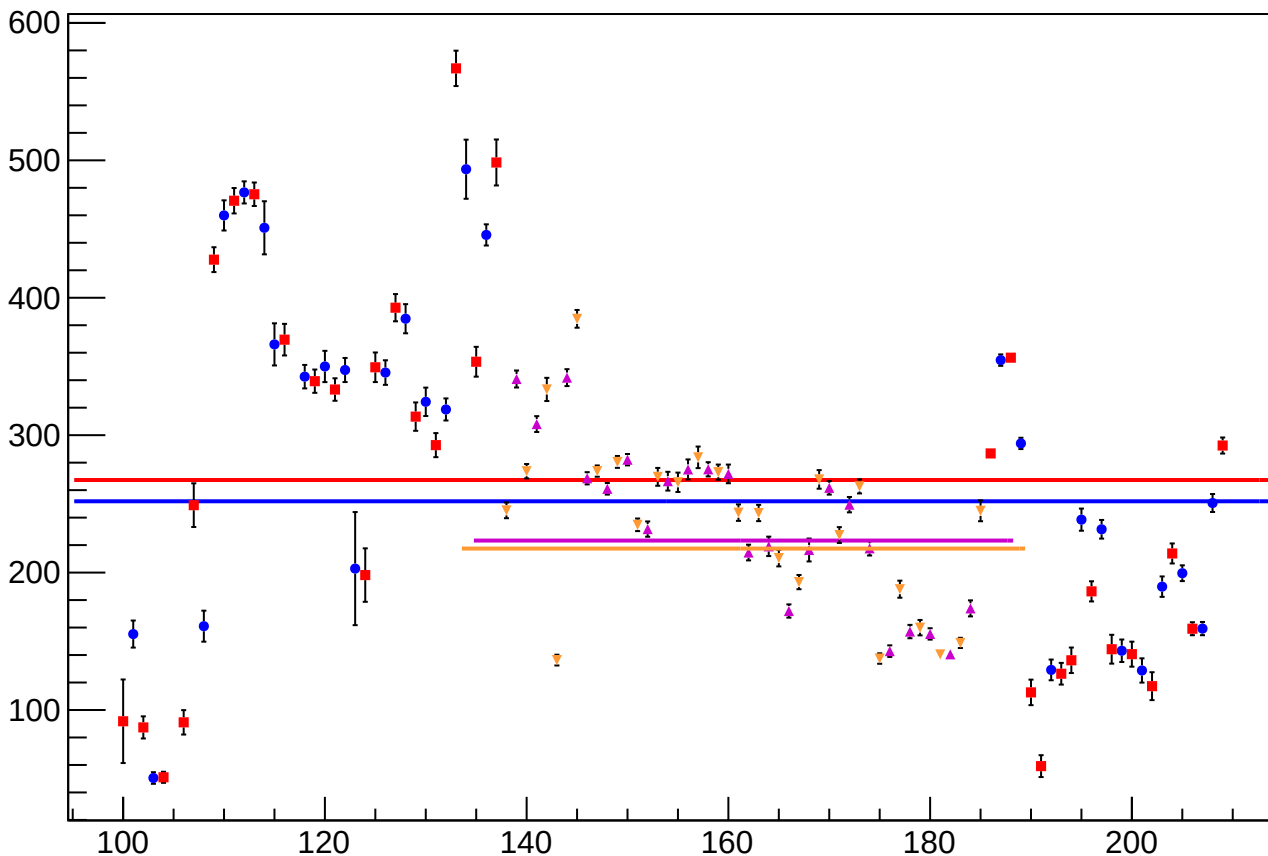
Right: 12.422 ± 0.752 $\chi^2/\text{NDF}: 1023.0/59$

In: 5.558 ± 0.664 $\chi^2/\text{NDF}: 995.2/50$

Out: 6.752 ± 0.615 $\chi^2/\text{NDF}: 1188.8/56$

All: 6.200 ± 0.451 $\chi^2/\text{NDF}: 2185.7/107$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 251.890 $\pm$ 1.388 χ^2 /NDF: 7067.8/27

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF: 3769.5/24

Right Out: 267.365 $\pm$ 1.145 χ^2 /NDF: 11049.9/31

Left In: 223.309 $\pm$ 1.062 χ^2 /NDF: 3378.0/22

Left: 220.314 $\pm$ 0.740 χ^2 /NDF: 7163.0/47

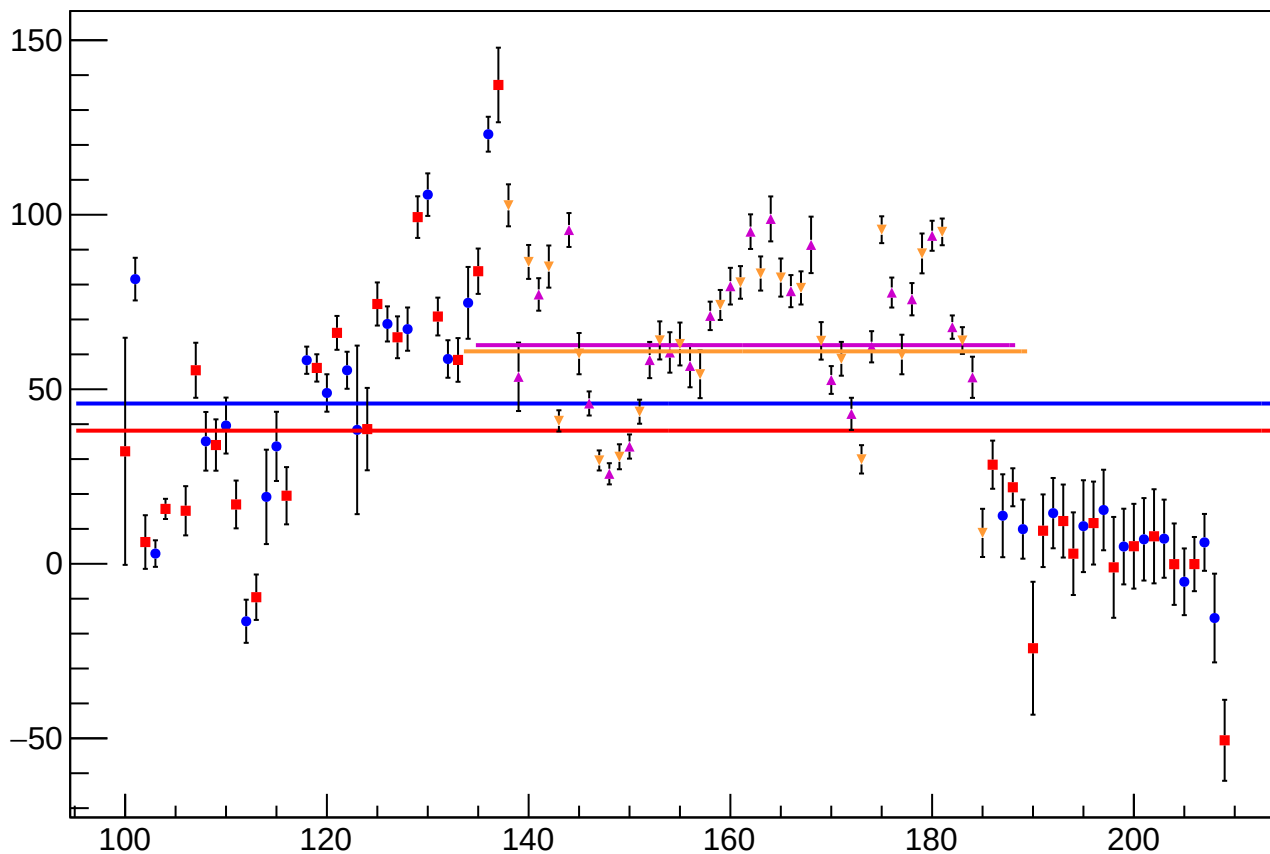
Right: 261.096 $\pm$ 0.883 χ^2 /NDF: 18191.6/59

In: 233.865 $\pm$ 0.843 χ^2 /NDF: 10713.3/50

Out: 239.851 $\pm$ 0.767 χ^2 /NDF: 15866.3/56

All: 237.142 $\pm$ 0.567 χ^2 /NDF: 26607.2/107

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.918 $\pm$ 1.311 χ^2 /NDF: 827.7/27

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 38.143 $\pm$ 1.213 χ^2 /NDF: 720.5/31

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

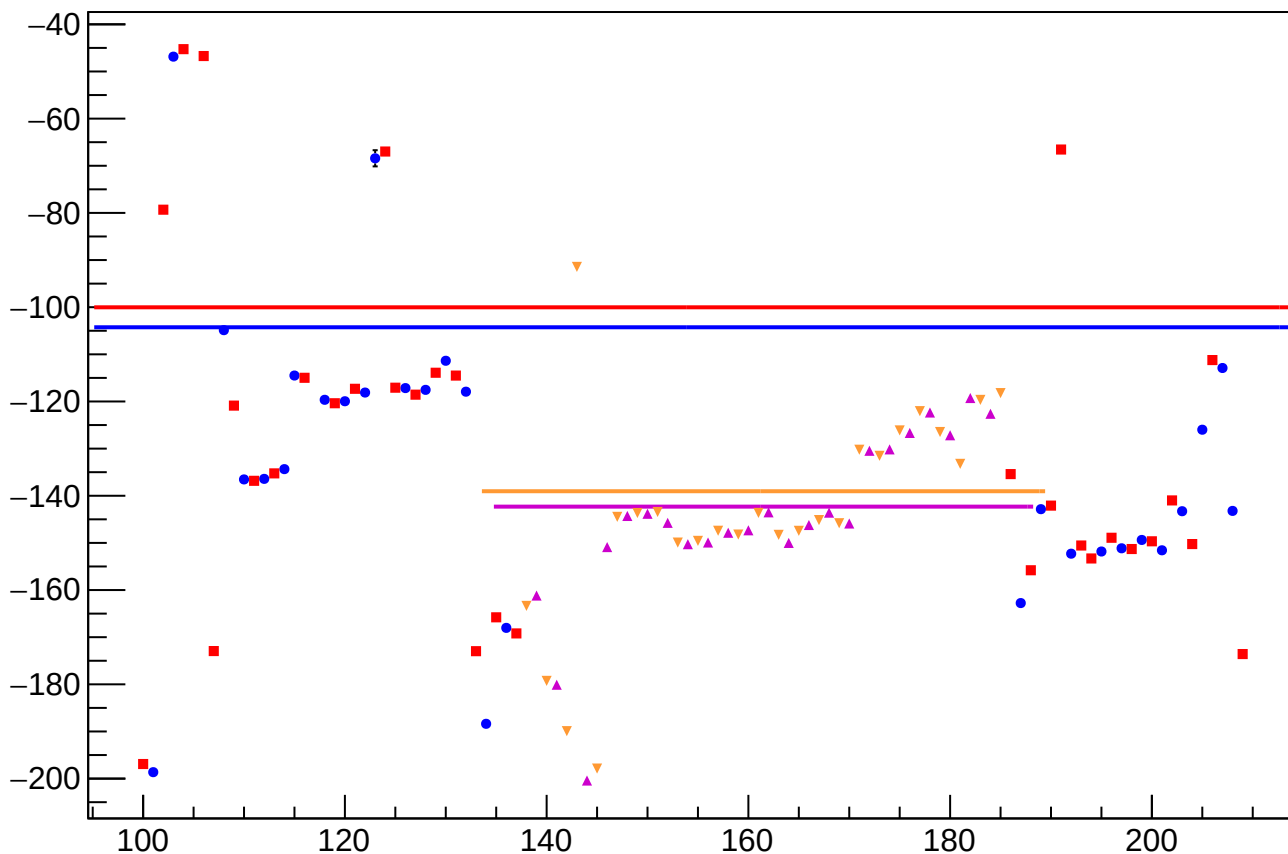
Right: 41.728 $\pm$ 0.890 χ^2 /NDF: 1567.2/59

In: 56.941 $\pm$ 0.765 χ^2 /NDF: 1450.4/50

Out: 52.833 $\pm$ 0.721 χ^2 /NDF: 1679.1/56

All: 54.764 $\pm$ 0.525 χ^2 /NDF: 3144.7/107

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -104.259+/-0.058 χ^2/NDF : 699283.0/27

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -100.025+/-0.055 χ^2/NDF : 746947.9/31

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

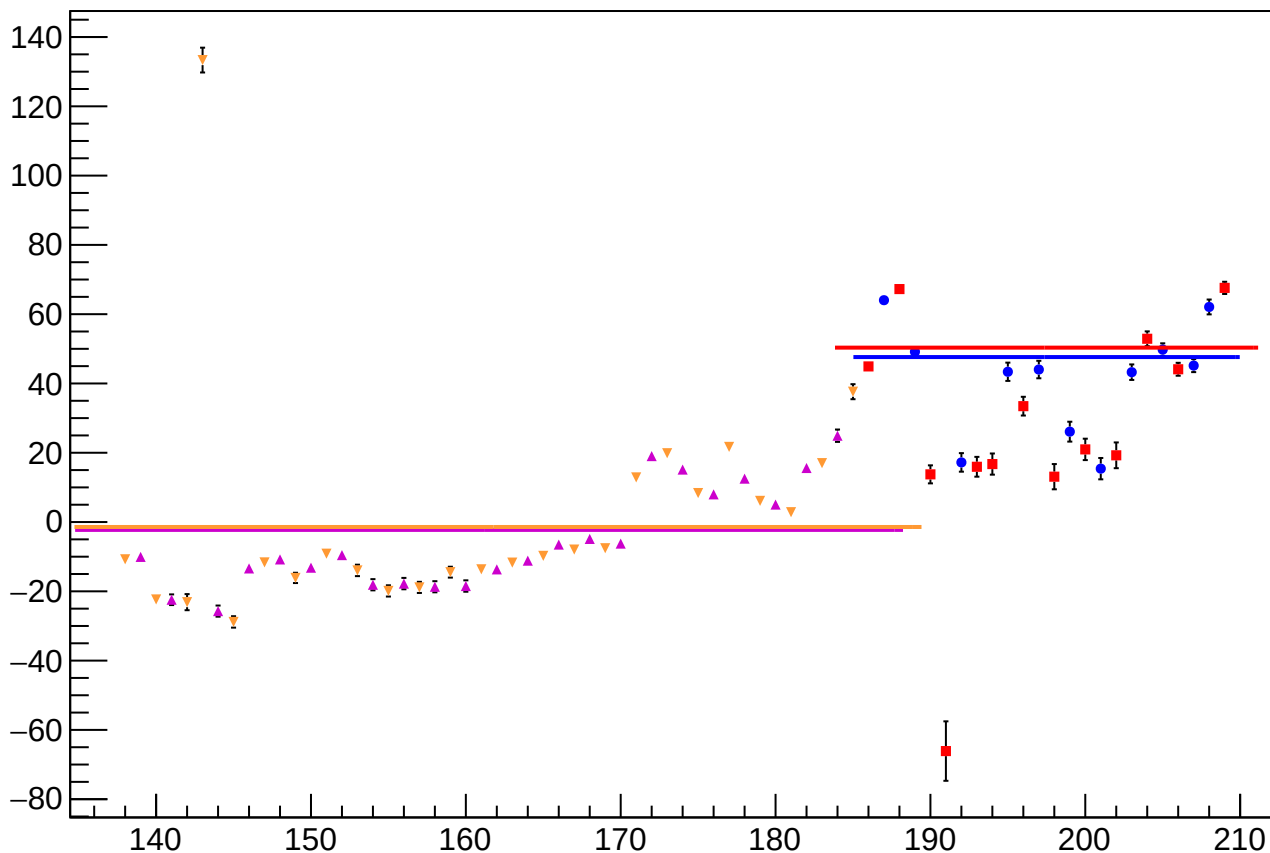
Right: -102.011+/-0.040 χ^2/NDF : 1449025.1/59

In: -128.486+/-0.035 χ^2/NDF : 1113255.7/50

Out: -124.251+/-0.034 χ^2/NDF : 1319026.1/56

All: -126.283+/-0.024 χ^2/NDF : 2439822.3/10

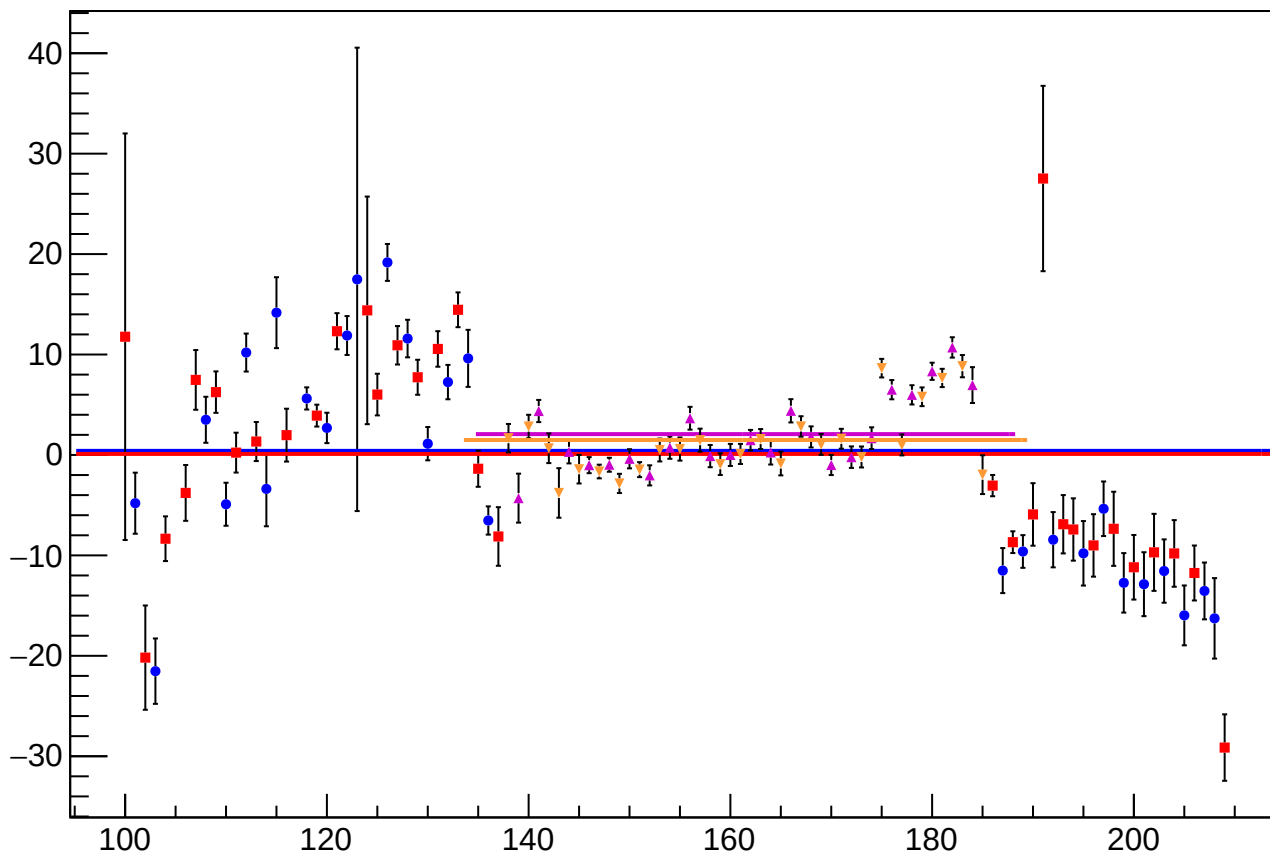
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 47.622 ± 0.613 $\chi^2/\text{NDF}: 491.7/10$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 50.343 ± 0.466 $\chi^2/\text{NDF}: 1575.5/12$
 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: 49.349 ± 0.371 $\chi^2/\text{NDF}: 2079.7/23$
 In: 5.863 ± 0.248 $\chi^2/\text{NDF}: 8548.9/33$
 Out: 11.432 ± 0.232 $\chi^2/\text{NDF}: 15208.6/37$
 All: 8.829 ± 0.169 $\chi^2/\text{NDF}: 24026.8/71$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.406 ± 0.407 χ^2/NDF : 565.2/27

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: 0.102 ± 0.373 χ^2/NDF : 515.3/31

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

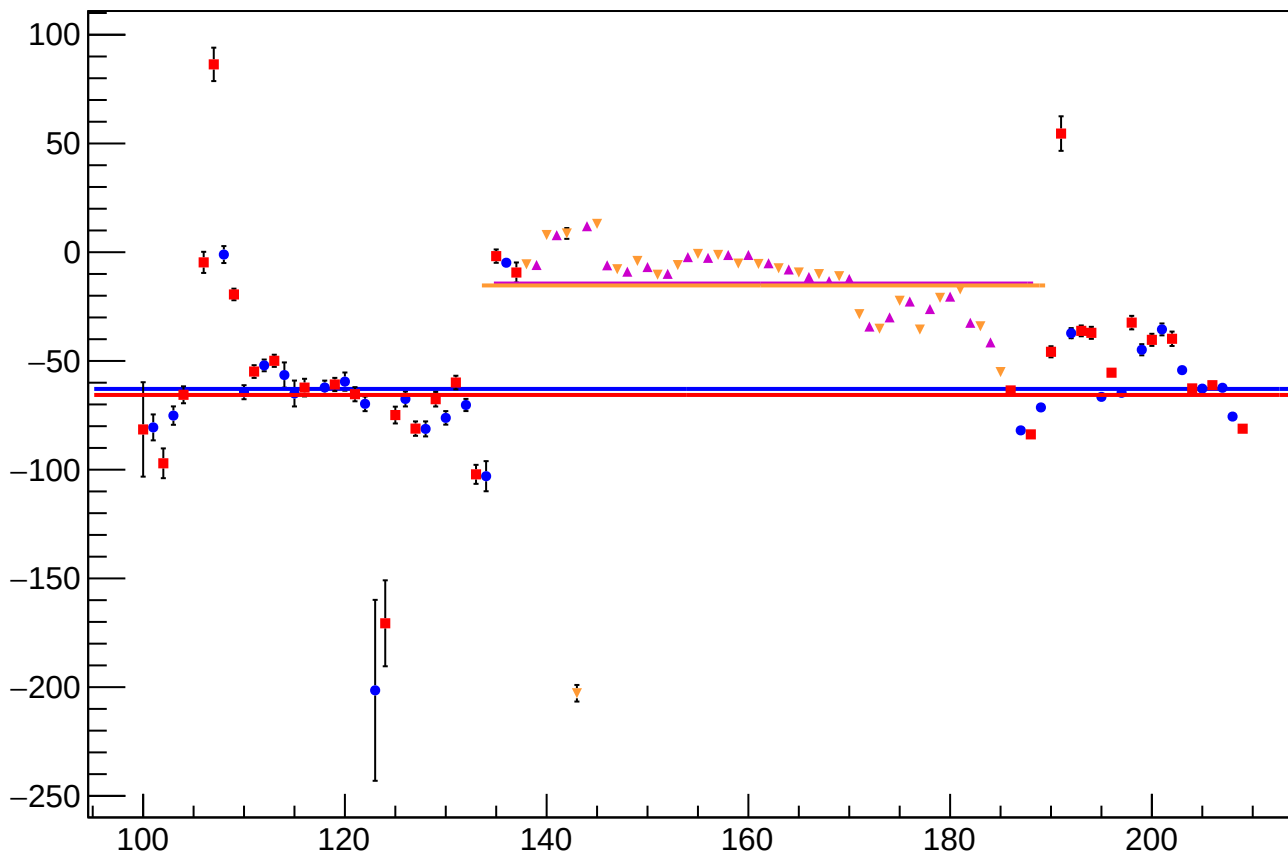
Right: 0.241 ± 0.275 χ^2/NDF : 1080.8/59

In: 1.709 ± 0.190 χ^2/NDF : 852.9/50

Out: 1.156 ± 0.183 χ^2/NDF : 784.9/56

All: 1.422 ± 0.132 χ^2/NDF : 1642.2/107

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.864 ± 0.463 $\chi^2/\text{NDF}: 1760.3/27$

Left Out: -15.279 ± 0.267 $\chi^2/\text{NDF}: 4820.1/24$

Right Out: -65.637 ± 0.357 $\chi^2/\text{NDF}: 3386.1/31$

Left In: -14.406 ± 0.269 $\chi^2/\text{NDF}: 2032.4/22$

Left: -14.846 ± 0.189 $\chi^2/\text{NDF}: 6857.8/47$

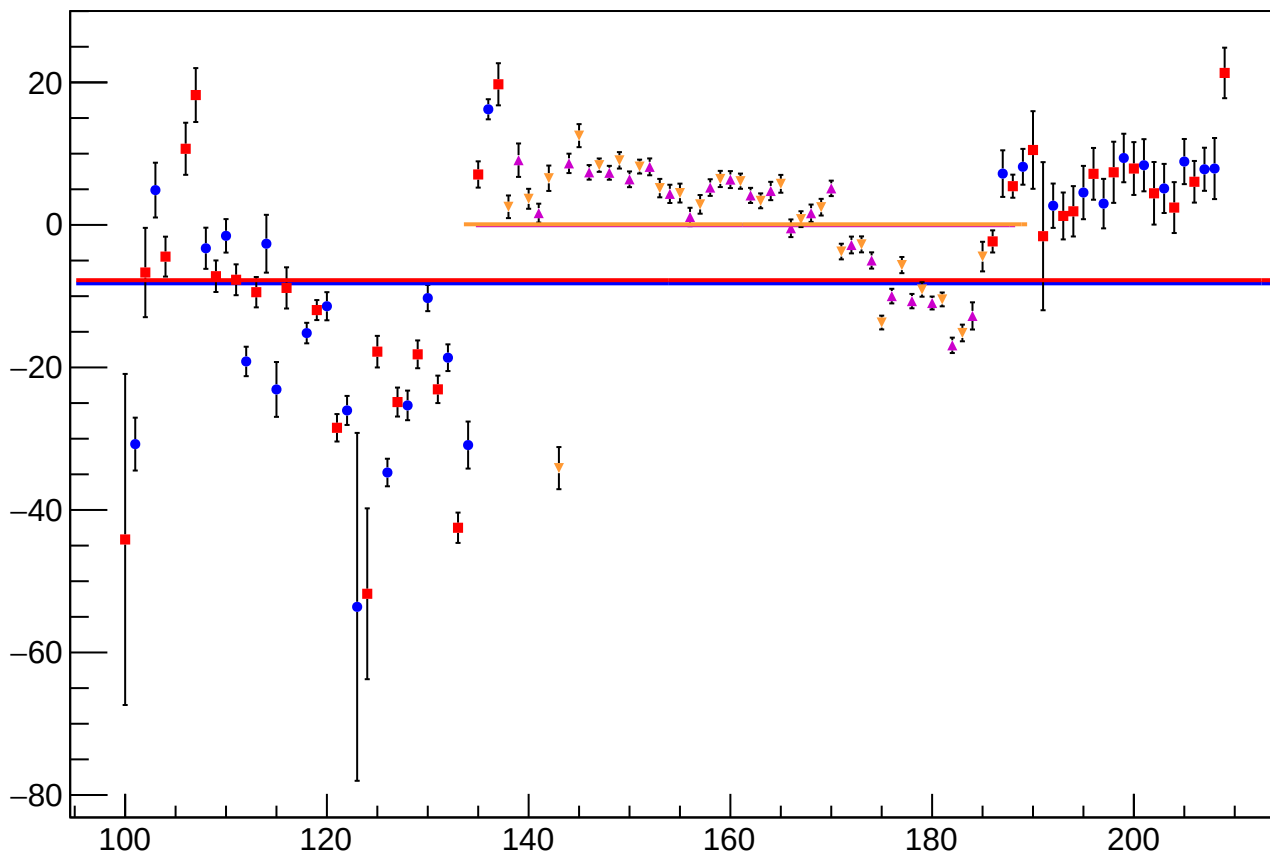
Right: -64.602 ± 0.283 $\chi^2/\text{NDF}: 5168.9/59$

In: -26.655 ± 0.233 $\chi^2/\text{NDF}: 11989.1/50$

Out: -33.319 ± 0.214 $\chi^2/\text{NDF}: 20968.8/56$

All: -30.268 ± 0.157 $\chi^2/\text{NDF}: 33402.9/107$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -8.199 ± 0.473 χ^2/NDF : 1078.7/27

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -7.756 ± 0.448 χ^2/NDF : 1073.8/31

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

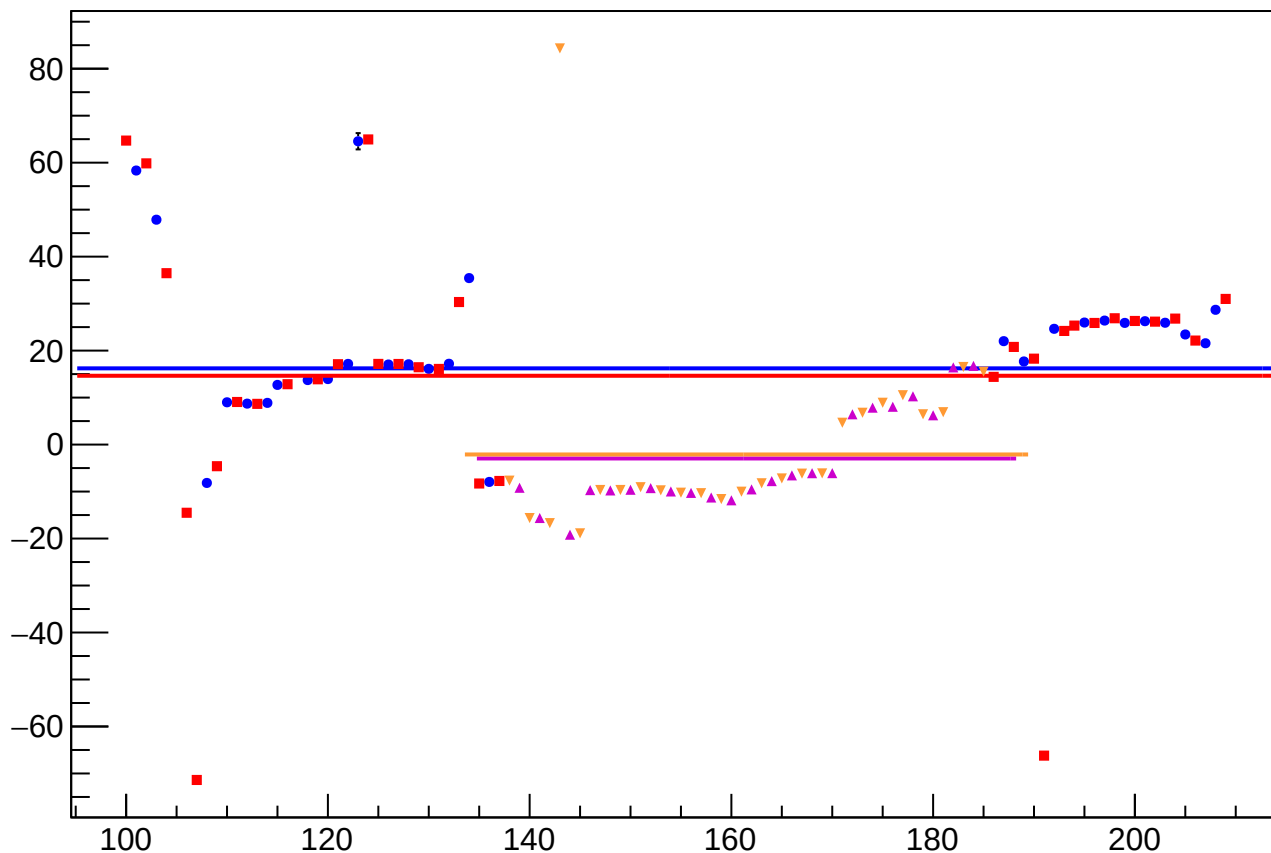
Right: -7.966 ± 0.325 χ^2/NDF : 2152.9/59

In: -1.750 ± 0.216 χ^2/NDF : 2342.4/50

Out: -1.644 ± 0.210 χ^2/NDF : 2485.2/56

All: -1.695 ± 0.151 χ^2/NDF : 4827.7/107

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 16.224+/-0.023 χ^2/NDF : 474987.4/27

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 14.645+/-0.023 χ^2/NDF : 757761.0/31

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

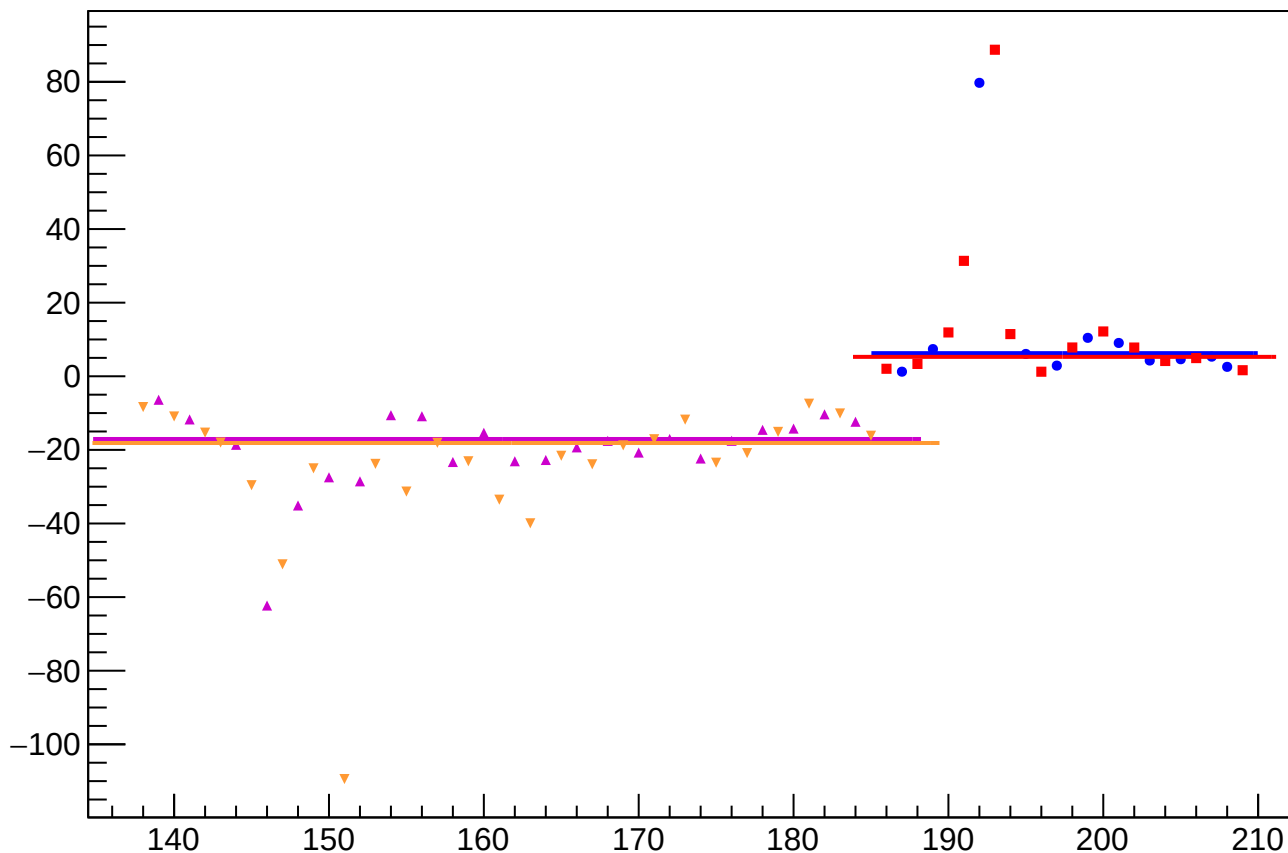
Right: 15.412+/-0.016 χ^2/NDF : 1235080.7/59

In: 0.504+/-0.010 χ^2/NDF : 1786843.2/50

Out: 1.025+/-0.010 χ^2/NDF : 2290476.8/56

All: 0.768+/-0.007 χ^2/NDF : 4078707.4/107

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.284 ± 0.060 $\chi^2/\text{NDF}: 25777.8/10$

Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$

Right Out: 5.274 ± 0.054 $\chi^2/\text{NDF}: 26771.5/12$

Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$

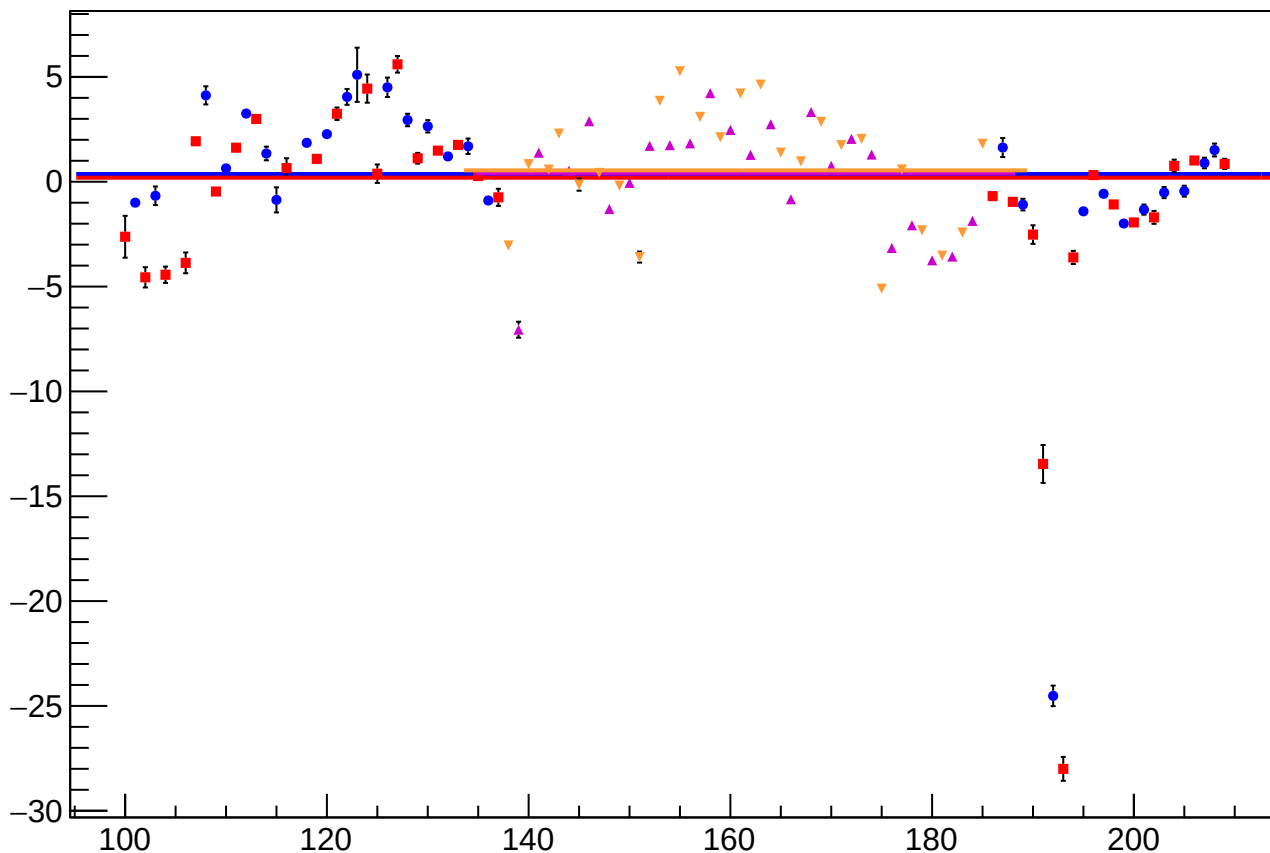
Right: 5.733 ± 0.040 $\chi^2/\text{NDF}: 52705.8/23$

In: -10.259 ± 0.032 $\chi^2/\text{NDF}: 178527.8/33$

Out: -10.199 ± 0.032 $\chi^2/\text{NDF}: 237858.5/37$

All: -10.229 ± 0.023 $\chi^2/\text{NDF}: 416388.1/71$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.368 $\pm$ 0.048 χ^2 /NDF: 3840.6/27

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF: 7085.3/24

Right Out: 0.193 $\pm$ 0.045 χ^2 /NDF: 4272.1/31

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

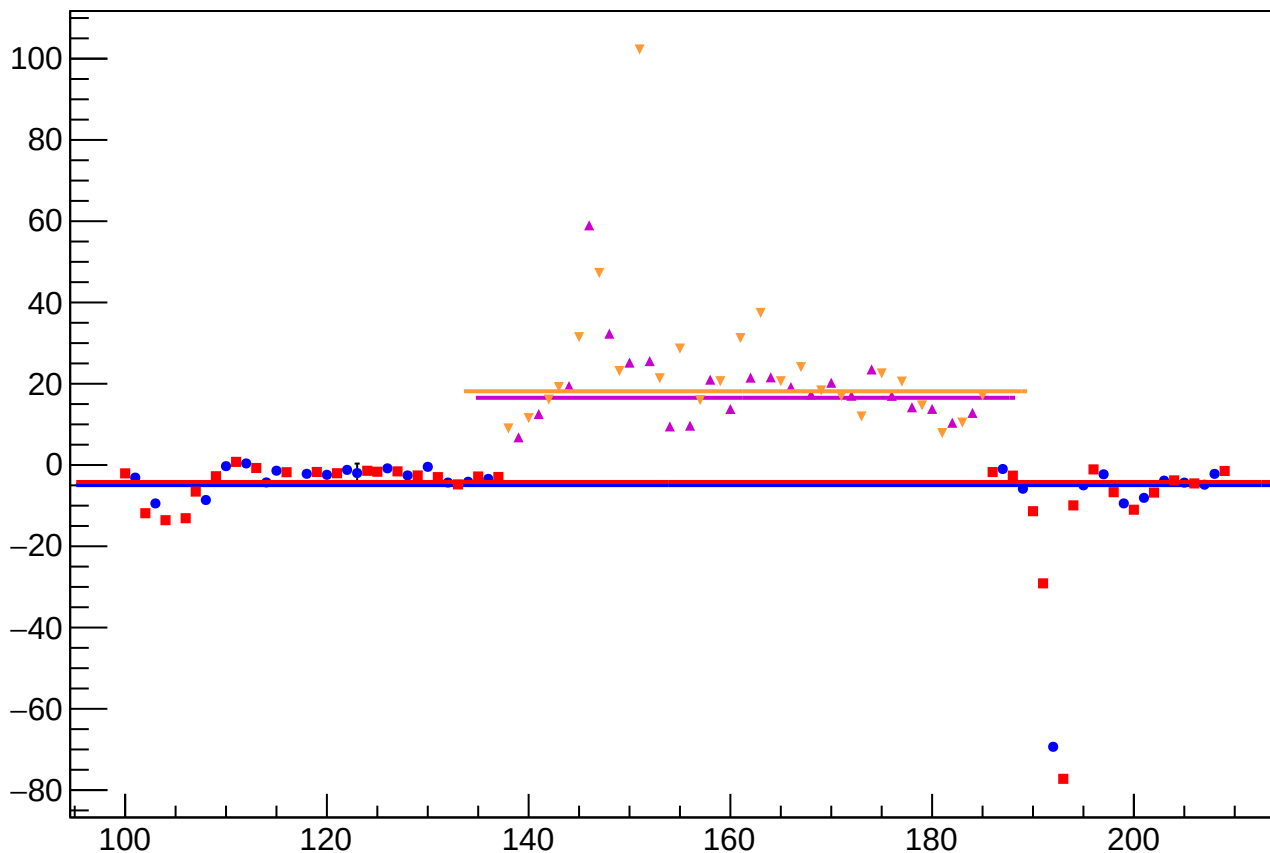
Right: 0.275 $\pm$ 0.033 χ^2 /NDF: 8119.7/59

In: 0.389 $\pm$ 0.026 χ^2 /NDF: 10076.5/50

Out: 0.424 $\pm$ 0.026 χ^2 /NDF: 11397.1/56

All: 0.406 $\pm$ 0.018 χ^2 /NDF: 21474.5/107

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.945 ± 0.049 $\chi^2/\text{NDF}: 26966.8/27$

Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$

Right Out: -4.174 ± 0.043 $\chi^2/\text{NDF}: 28135.1/31$

Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$

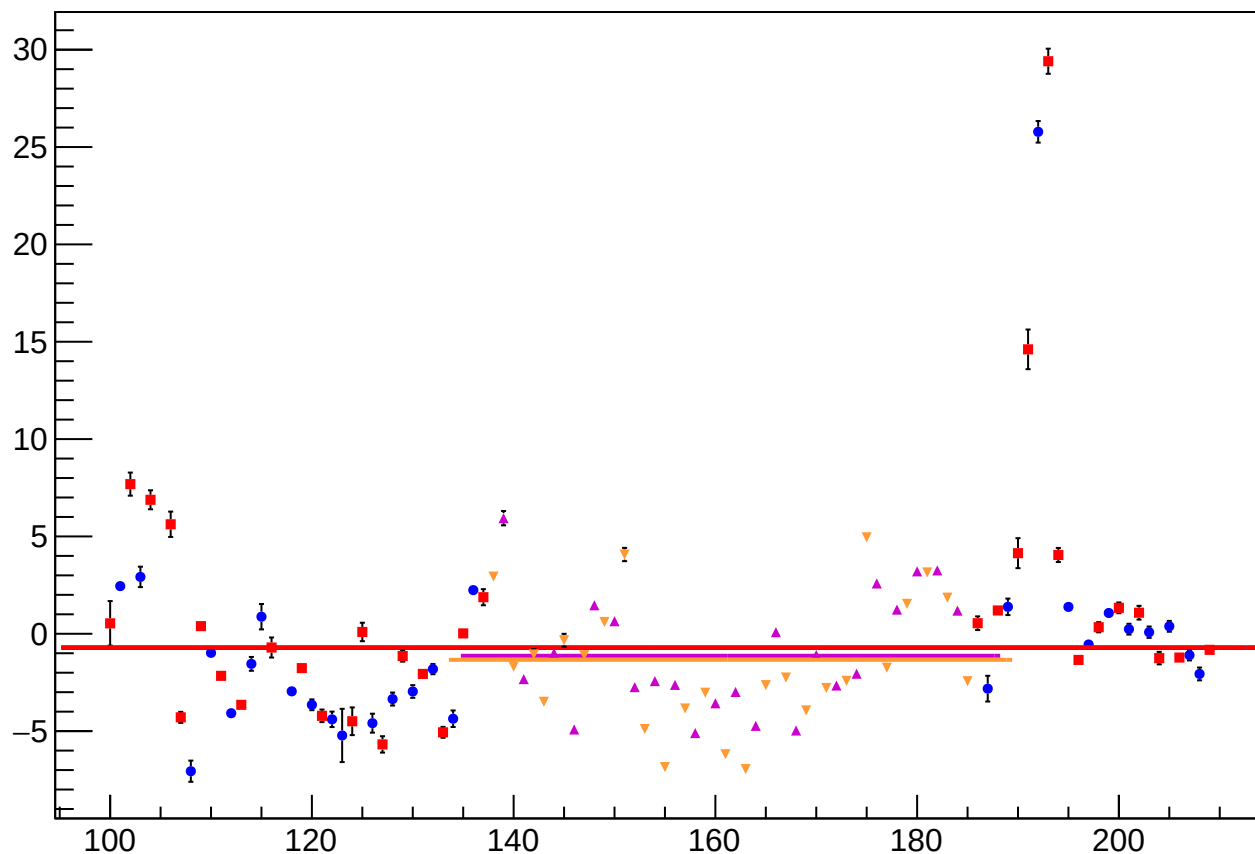
Right: -4.512 ± 0.032 $\chi^2/\text{NDF}: 55240.8/59$

In: 8.541 ± 0.030 $\chi^2/\text{NDF}: 188432.8/50$

Out: 8.130 ± 0.029 $\chi^2/\text{NDF}: 252340.6/56$

All: 8.329 ± 0.021 $\chi^2/\text{NDF}: 440870.5/107$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.721 ± 0.056 χ^2/NDF : 3931.9/27

Left Out: -1.338 ± 0.036 χ^2/NDF : 7943.1/24

Right Out: -0.690 ± 0.052 χ^2/NDF : 4475.0/31

Left In: -1.129 ± 0.034 χ^2/NDF : 6740.3/22

Left: -1.228 ± 0.025 χ^2/NDF : 14701.0/47

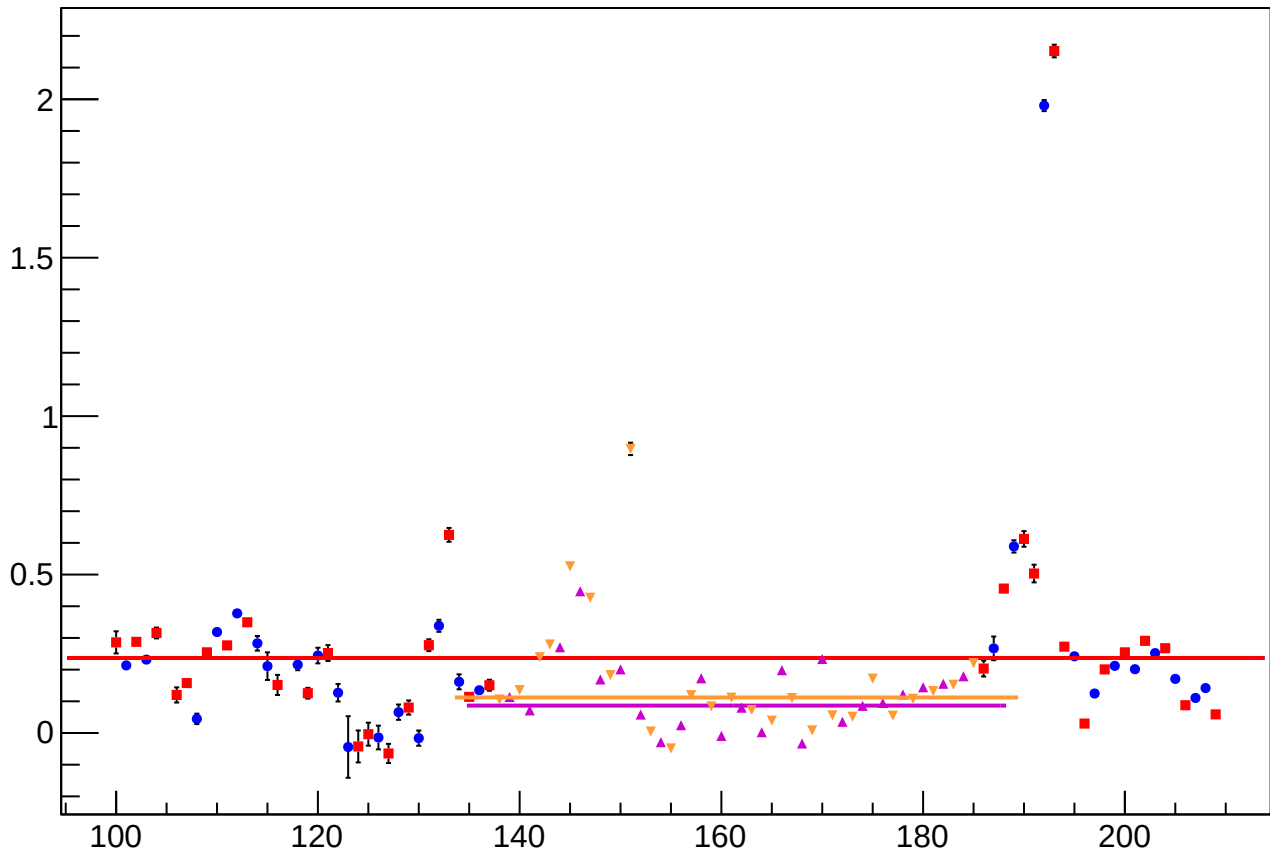
Right: -0.705 ± 0.038 χ^2/NDF : 8407.1/59

In: -1.018 ± 0.029 χ^2/NDF : 10711.1/50

Out: -1.131 ± 0.030 χ^2/NDF : 12521.8/56

All: -1.074 ± 0.021 χ^2/NDF : 23240.3/107

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.237 $\pm$ 0.002 χ^2/NDF : 11428.7/27

Left Out: 0.112 $\pm$ 0.002 χ^2/NDF : 4503.9/24

Right Out: 0.237 $\pm$ 0.002 χ^2/NDF : 12108.6/31

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

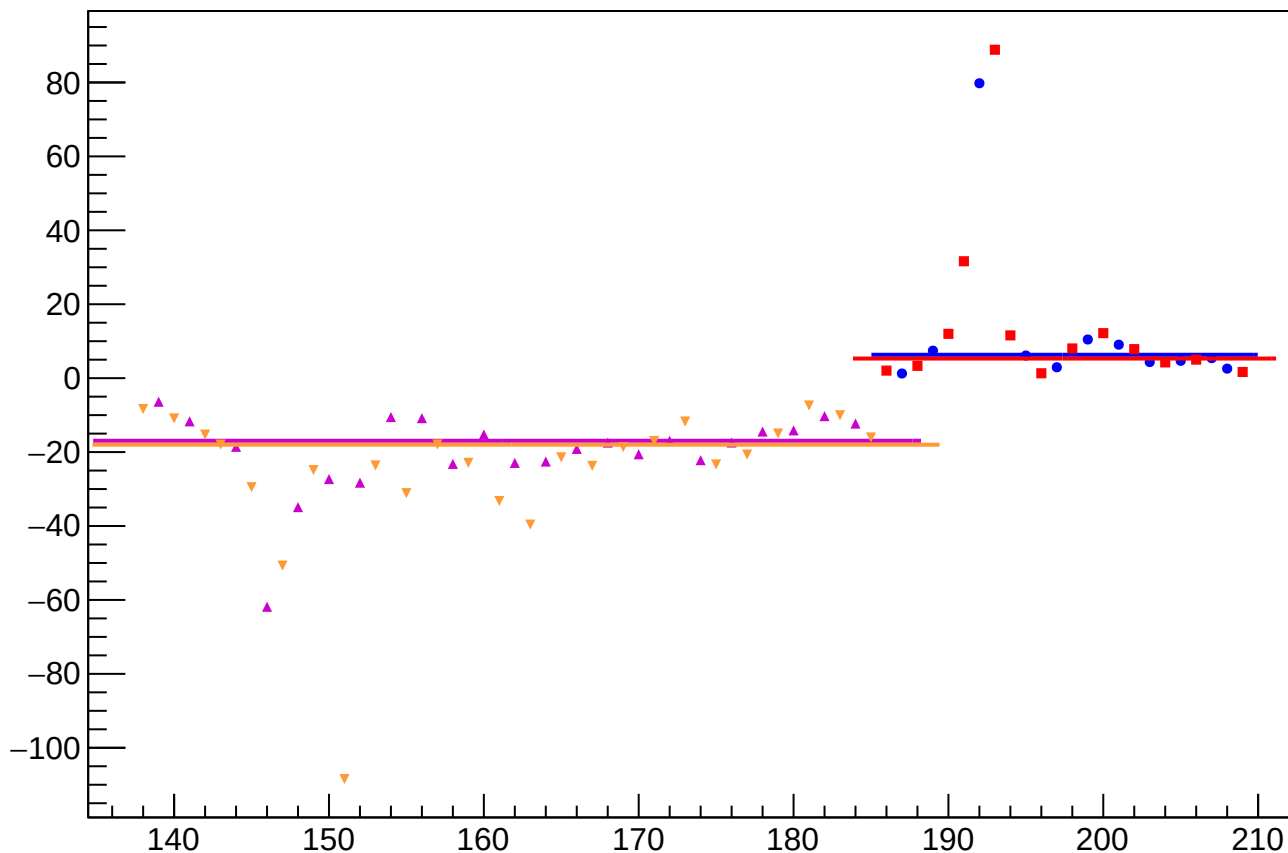
Right: 0.237 $\pm$ 0.002 χ^2/NDF : 23537.4/59

In: 0.127 $\pm$ 0.001 χ^2/NDF : 17801.8/50

Out: 0.151 $\pm$ 0.001 χ^2/NDF : 18511.5/56

All: 0.139 $\pm$ 0.001 χ^2/NDF : 36481.6/107

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.330 ± 0.059 $\chi^2/\text{NDF}: 25966.5/10$

Left Out: -18.005 ± 0.039 $\chi^2/\text{NDF}: 88391.0/24$

Right Out: 5.308 ± 0.054 $\chi^2/\text{NDF}: 27124.8/12$

Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$

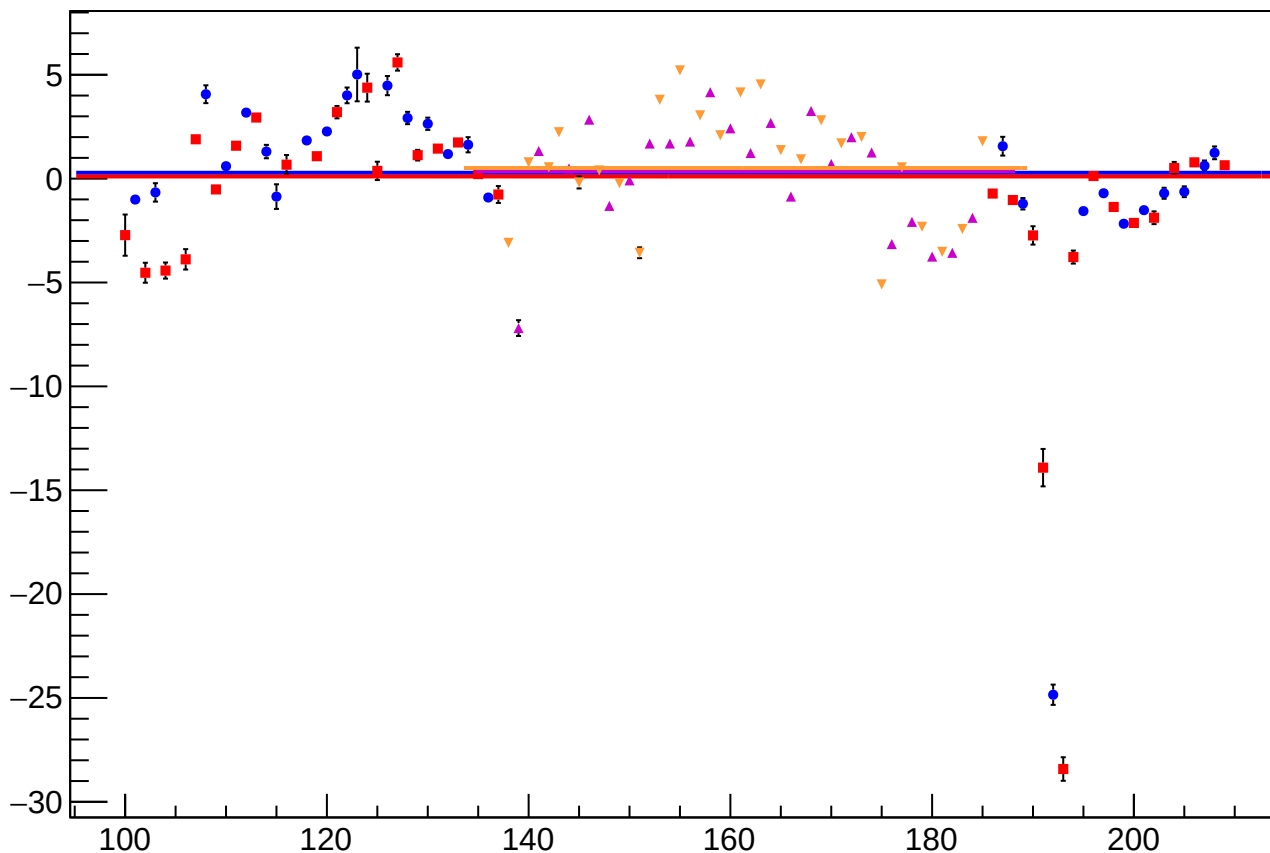
Right: 5.771 ± 0.040 $\chi^2/\text{NDF}: 53253.6/23$

In: -10.192 ± 0.032 $\chi^2/\text{NDF}: 179208.3/33$

Out: -10.108 ± 0.031 $\chi^2/\text{NDF}: 238807.1/37$

All: -10.149 ± 0.022 $\chi^2/\text{NDF}: 418018.8/71$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.282 ± 0.048 $\chi^2/\text{NDF}: 3969.7/27$

Left Out: 0.511 ± 0.032 $\chi^2/\text{NDF}: 7070.4/24$

Right Out: 0.104 ± 0.045 $\chi^2/\text{NDF}: 4428.9/31$

Left In: 0.360 ± 0.031 $\chi^2/\text{NDF}: 6221.1/22$

Left: 0.432 ± 0.022 $\chi^2/\text{NDF}: 13303.2/47$

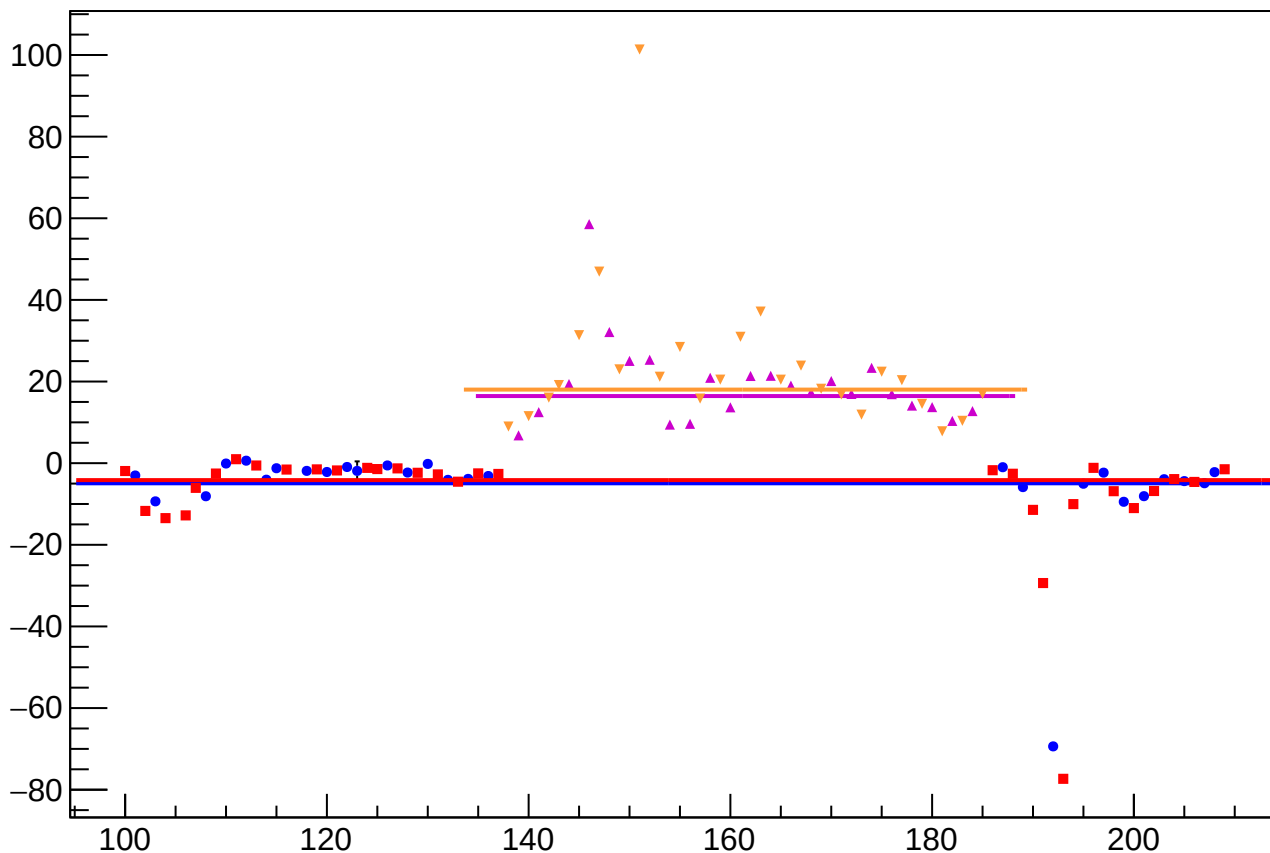
Right: 0.188 ± 0.033 $\chi^2/\text{NDF}: 8406.0/59$

In: 0.337 ± 0.026 $\chi^2/\text{NDF}: 10192.7/50$

Out: 0.374 ± 0.026 $\chi^2/\text{NDF}: 11553.5/56$

All: 0.355 ± 0.018 $\chi^2/\text{NDF}: 21747.2/107$

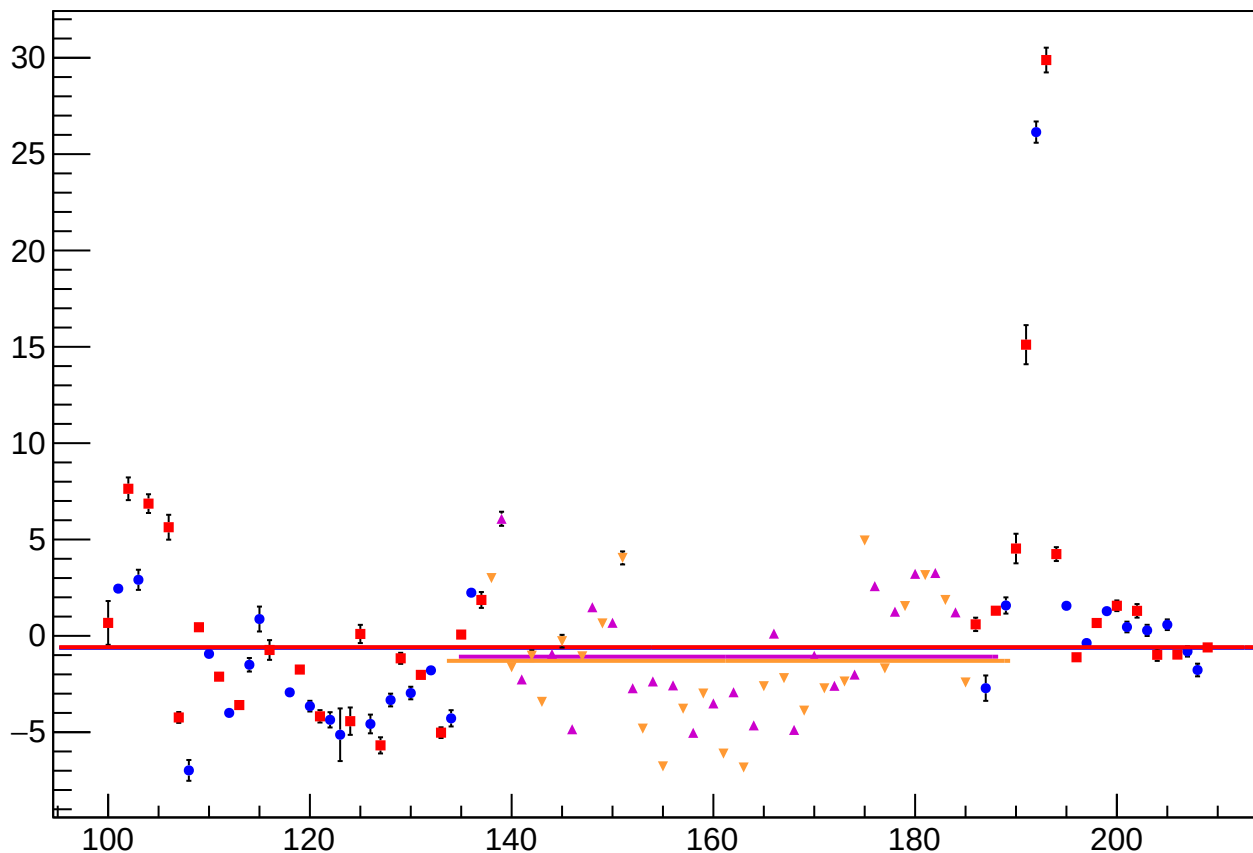
reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.933+/-0.049 χ^2/NDF : 27276.7/27
 Left Out: 18.027+/-0.039 χ^2/NDF : 77718.1/24
 Right Out: -4.151+/-0.043 χ^2/NDF : 28588.8/31
 Left In: 16.443+/-0.038 χ^2/NDF : 40780.6/22

Left: 17.207+/-0.027 χ^2/NDF : 119360.0/47
 Right: -4.493+/-0.032 χ^2/NDF : 56010.3/59
 In: 8.502+/-0.030 χ^2/NDF : 188701.0/50
 Out: 8.073+/-0.029 χ^2/NDF : 252781.6/56
 All: 8.281+/-0.021 χ^2/NDF : 441589.8/107

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.620 ± 0.056 $\chi^2/\text{NDF}: 4037.6/27$

Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$

Right Out: -0.587 ± 0.052 $\chi^2/\text{NDF}: 4625.0/31$

Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$

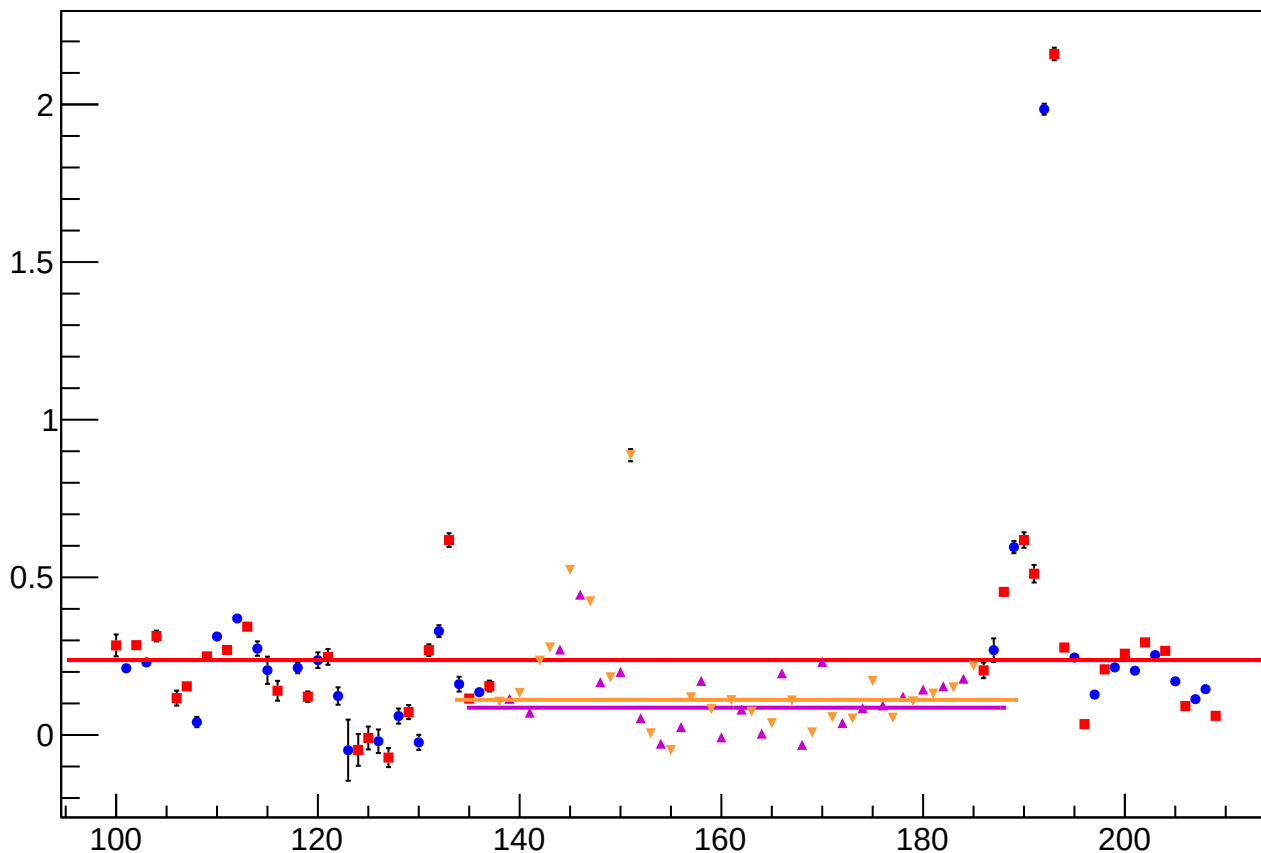
Right: -0.603 ± 0.038 $\chi^2/\text{NDF}: 8662.7/59$

In: -0.956 ± 0.029 $\chi^2/\text{NDF}: 10812.0/50$

Out: -1.071 ± 0.029 $\chi^2/\text{NDF}: 12676.2/56$

All: -1.013 ± 0.021 $\chi^2/\text{NDF}: 23496.0/107$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.237 $\pm$ 0.002 χ^2 /NDF: 11549.4/27

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.238 $\pm$ 0.002 χ^2 /NDF: 12235.8/31

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

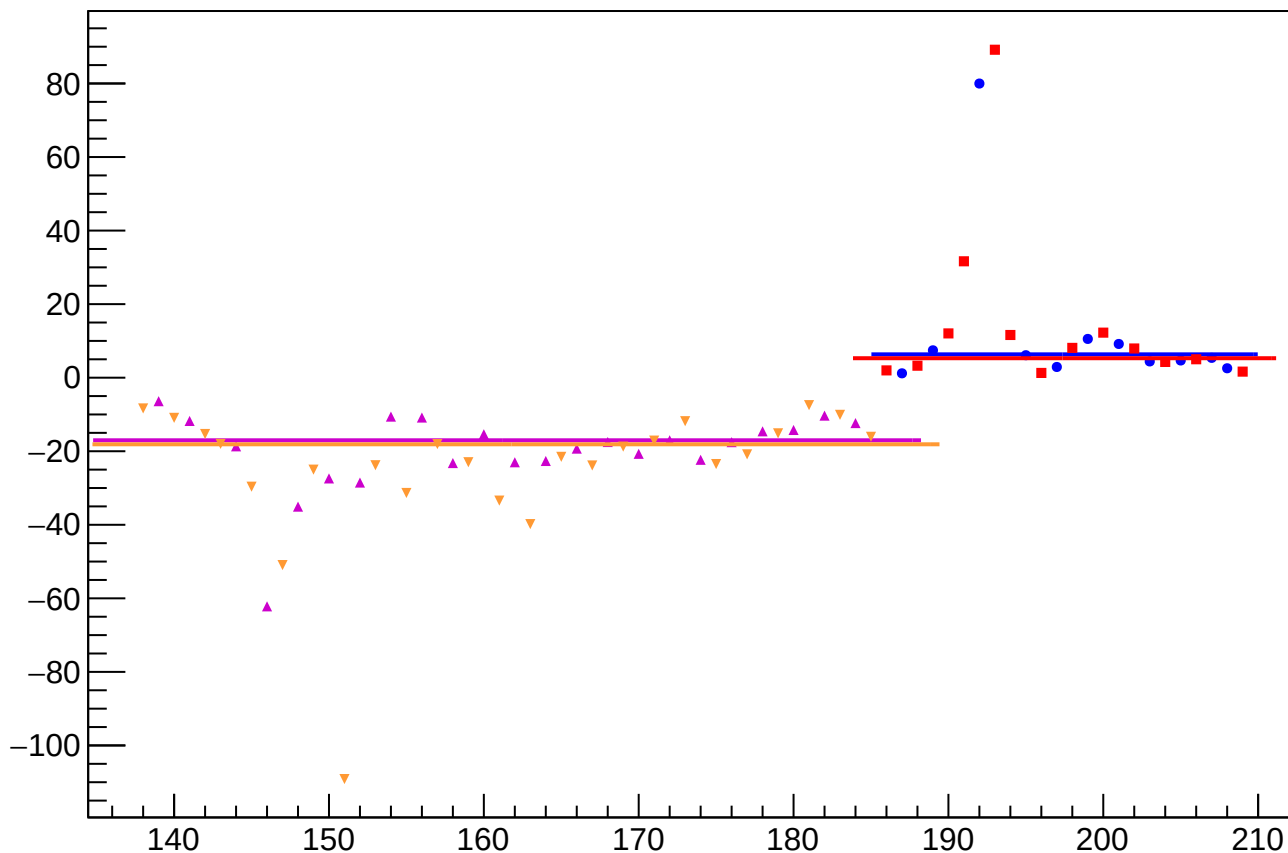
Right: 0.238 $\pm$ 0.002 χ^2 /NDF: 23785.2/59

In: 0.127 $\pm$ 0.001 χ^2 /NDF:17943.4/50

Out: 0.151 $\pm$ 0.001 χ^2 /NDF:18706.2/56

All: 0.139 $\pm$ 0.001 χ^2 /NDF: 36815.3/107

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.345+/-0.060 χ^2/NDF : 25961.3/10

Left Out: -18.112+/-0.039 χ^2/NDF : 88529.7/24

Right Out: 5.293+/-0.054 χ^2/NDF : 27143.6/12

Left In: -17.024+/-0.038 χ^2/NDF : 44141.8/22

Left: -17.557+/-0.027 χ^2/NDF : 133072.9/47

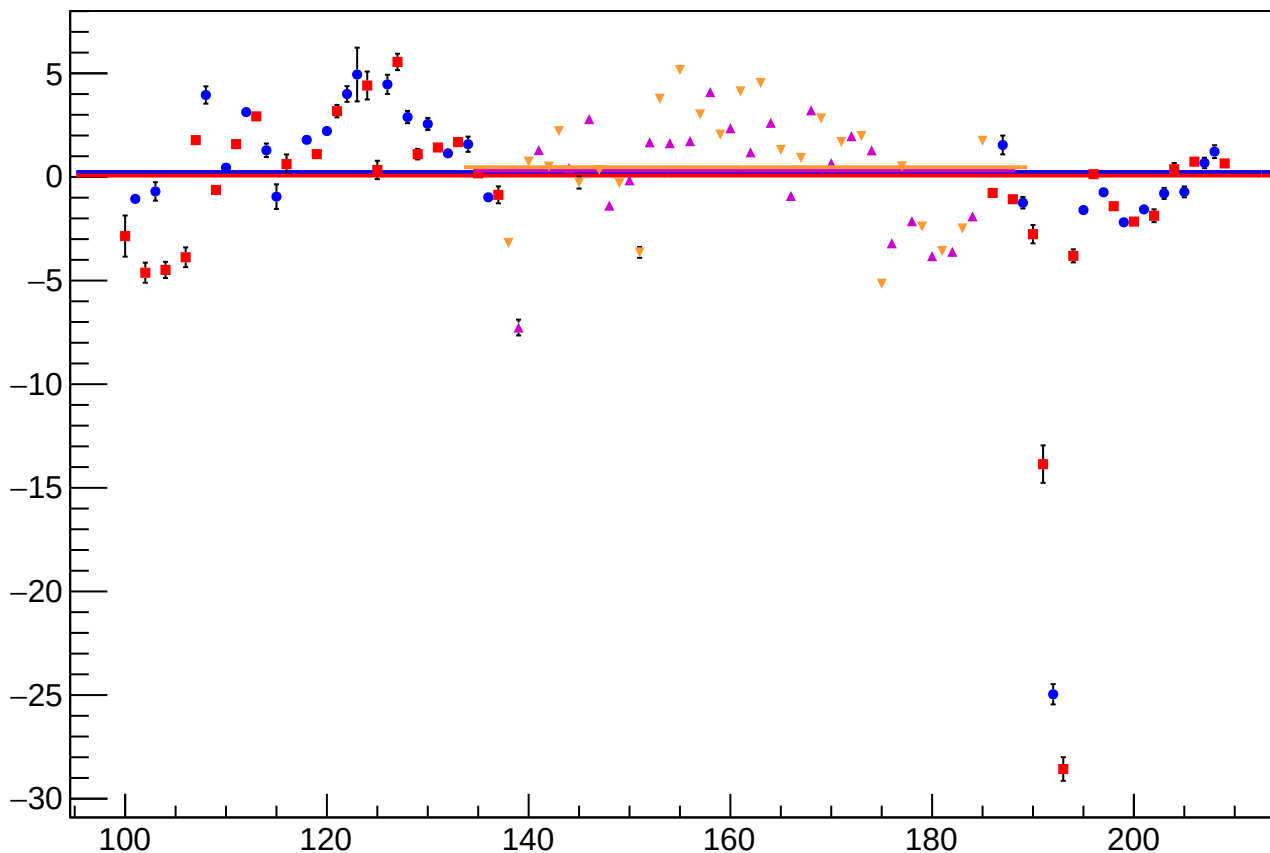
Right: 5.768+/-0.040 χ^2/NDF : 53275.0/23

In: -10.280+/-0.032 χ^2/NDF : 178956.6/33

Out: -10.184+/-0.032 χ^2/NDF : 238900.0/37

All: -10.231+/-0.023 χ^2/NDF : 417861.1/71

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.235 $\pm$ 0.048 χ^2 /NDF: 3957.7/27

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF: 7093.0/24

Right Out: 0.068 $\pm$ 0.045 χ^2 /NDF: 4422.2/31

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

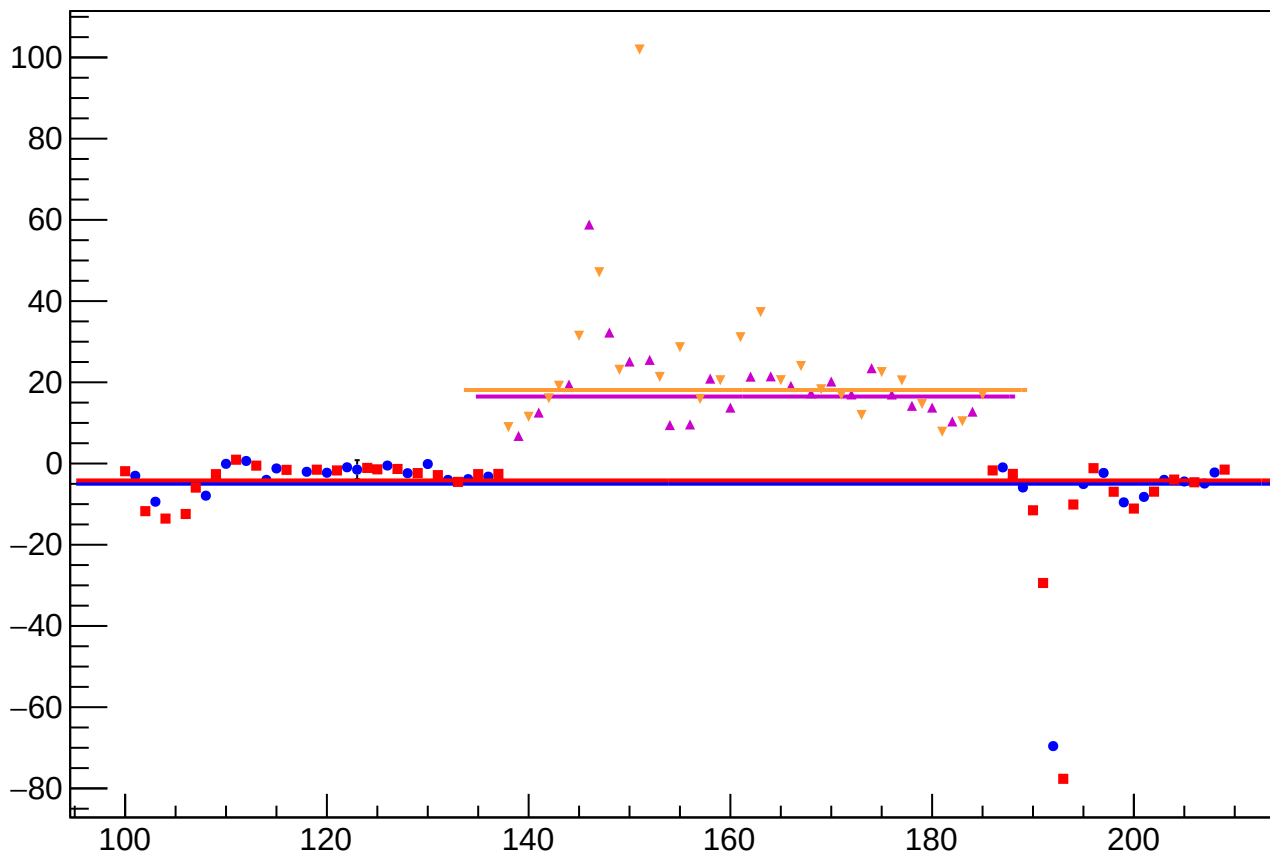
Right: 0.145 $\pm$ 0.033 χ^2 /NDF: 8386.3/59

In: 0.289 $\pm$ 0.026 χ^2 /NDF: 10142.6/50

Out: 0.333 $\pm$ 0.026 χ^2 /NDF: 11567.5/56

All: 0.311 $\pm$ 0.018 χ^2 /NDF: 21711.6/107

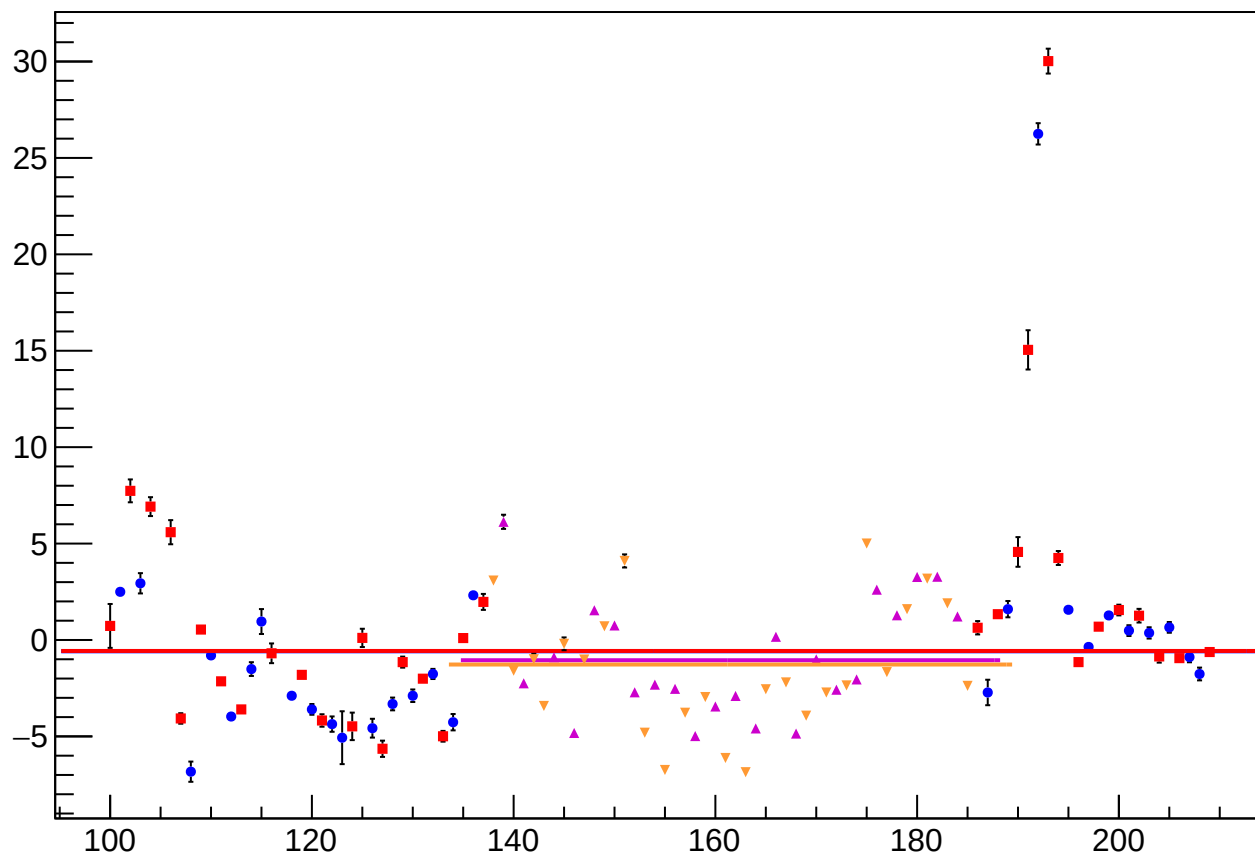
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.969 ± 0.049 $\chi^2/\text{NDF}: 27275.5/27$
 Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$
 Right Out: -4.165 ± 0.043 $\chi^2/\text{NDF}: 28599.6/31$
 Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$
 Right: -4.515 ± 0.032 $\chi^2/\text{NDF}: 56026.2/59$
 In: 8.549 ± 0.030 $\chi^2/\text{NDF}: 188441.7/50$
 Out: 8.102 ± 0.029 $\chi^2/\text{NDF}: 252893.7/56$
 All: 8.319 ± 0.021 $\chi^2/\text{NDF}: 441450.9/107$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.587 ± 0.056 $\chi^2/\text{NDF}: 4029.7/27$

Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$

Right Out: -0.569 ± 0.052 $\chi^2/\text{NDF}: 4621.4/31$

Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$

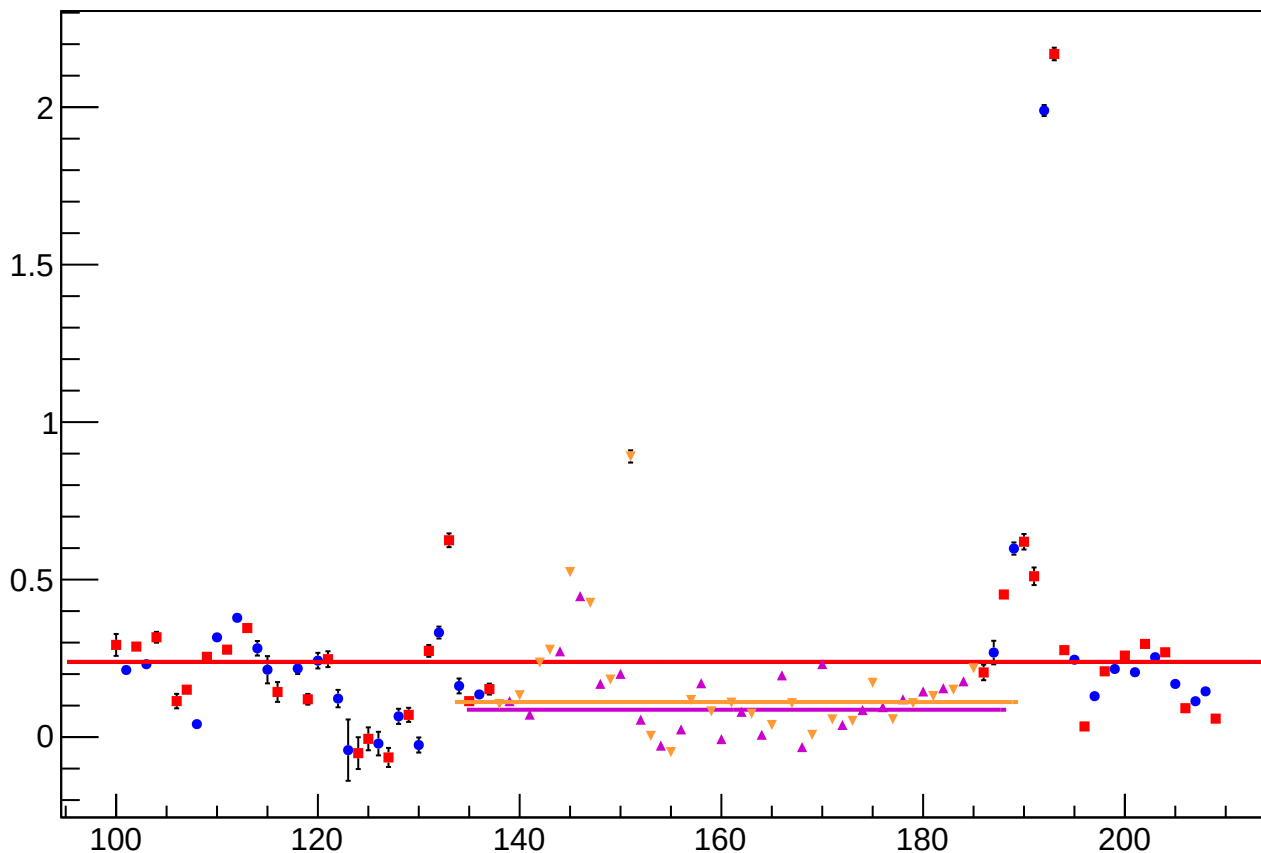
Right: -0.578 ± 0.038 $\chi^2/\text{NDF}: 8651.1/59$

In: -0.925 ± 0.029 $\chi^2/\text{NDF}: 10753.3/50$

Out: -1.049 ± 0.030 $\chi^2/\text{NDF}: 12695.9/56$

All: -0.986 ± 0.021 $\chi^2/\text{NDF}: 23458.2/107$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.239+/-0.002 χ^2/NDF : 11544.0/27

Left Out: 0.111+/-0.002 χ^2/NDF : 4474.5/24

Right Out: 0.239+/-0.002 χ^2/NDF : 12255.0/31

Left In: 0.087+/-0.001 χ^2/NDF : 3598.5/22

Left: 0.098+/-0.001 χ^2/NDF : 8197.1/47

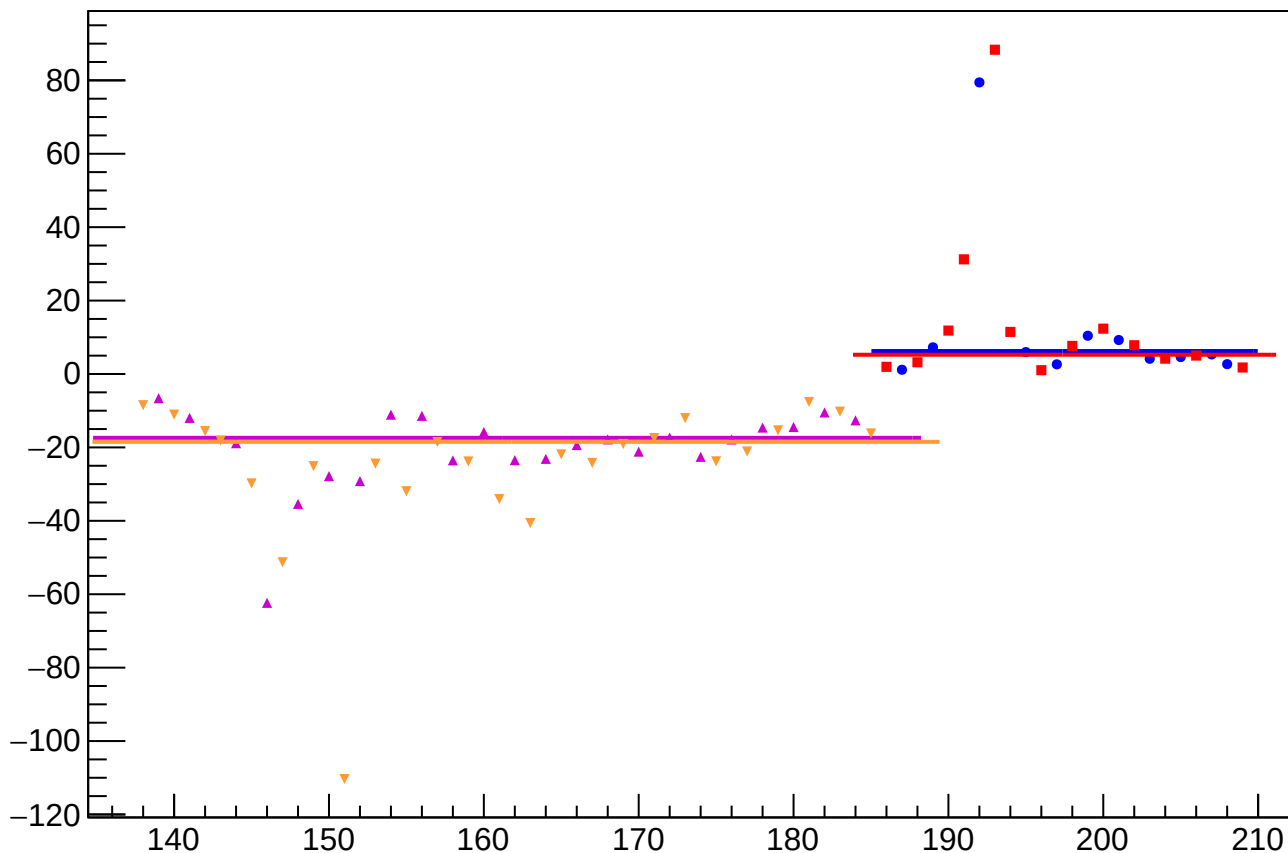
Right: 0.239+/-0.002 χ^2/NDF : 23799.0/59

In: 0.128+/-0.001 χ^2/NDF : 17921.3/50

Out: 0.151+/-0.001 χ^2/NDF : 18718.2/56

All: 0.139+/-0.001 χ^2/NDF : 36798.8/107

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.255+/-0.060 χ^2/NDF : 25543.7/10

Left Out: -18.479+/-0.040 χ^2/NDF : 87883.4/24

Right Out: 5.244+/-0.054 χ^2/NDF : 26553.5/12

Left In: -17.393+/-0.039 χ^2/NDF : 43178.9/22

Left: -17.926+/-0.028 χ^2/NDF : 131443.9/47

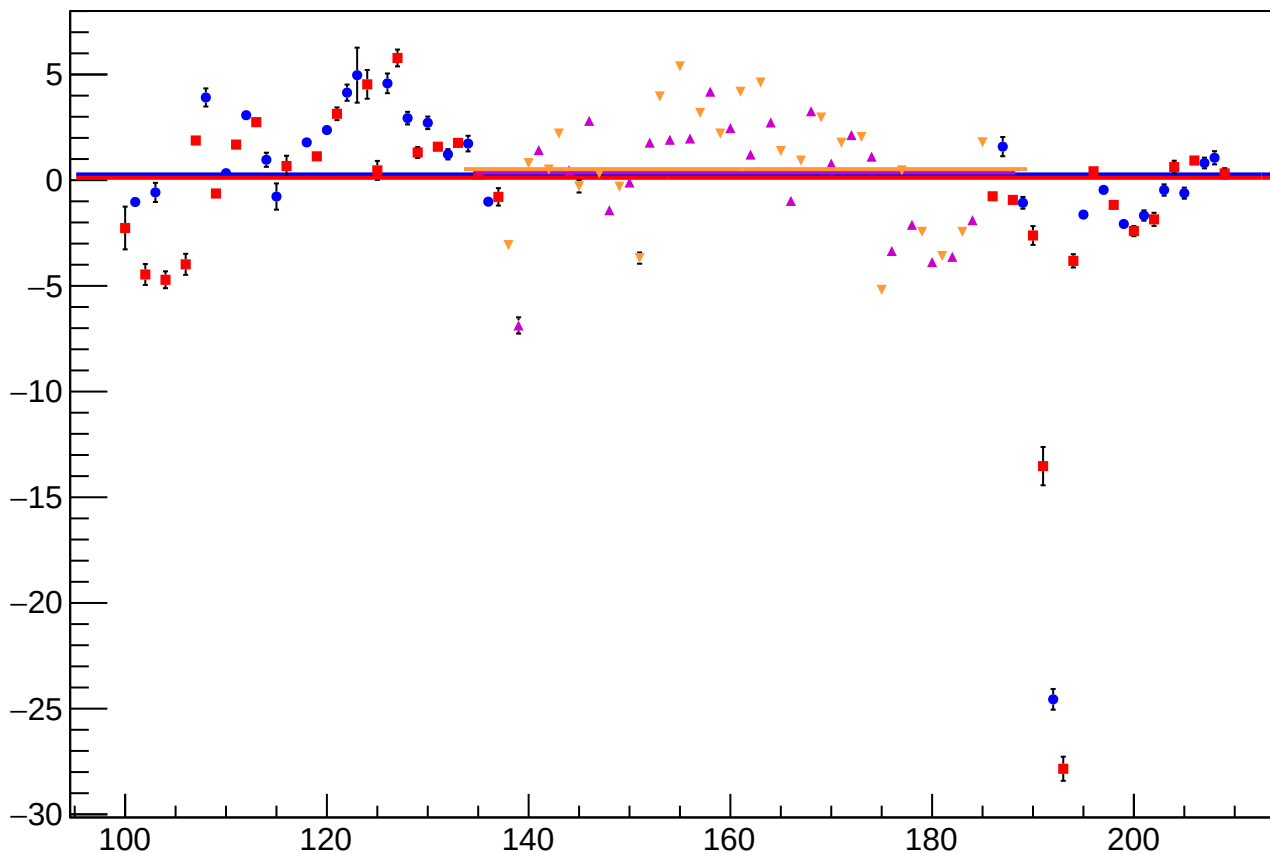
Right: 5.701+/-0.040 χ^2/NDF : 52252.7/23

In: -10.388+/-0.033 χ^2/NDF : 177860.8/33

Out: -10.250+/-0.032 χ^2/NDF : 238296.3/37

All: -10.318+/-0.023 χ^2/NDF : 416166.2/71

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.273 $\pm$ 0.049 χ^2 /NDF: 3823.2/27

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF: 7055.1/24

Right Out: 0.112 $\pm$ 0.046 χ^2 /NDF: 4260.6/31

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

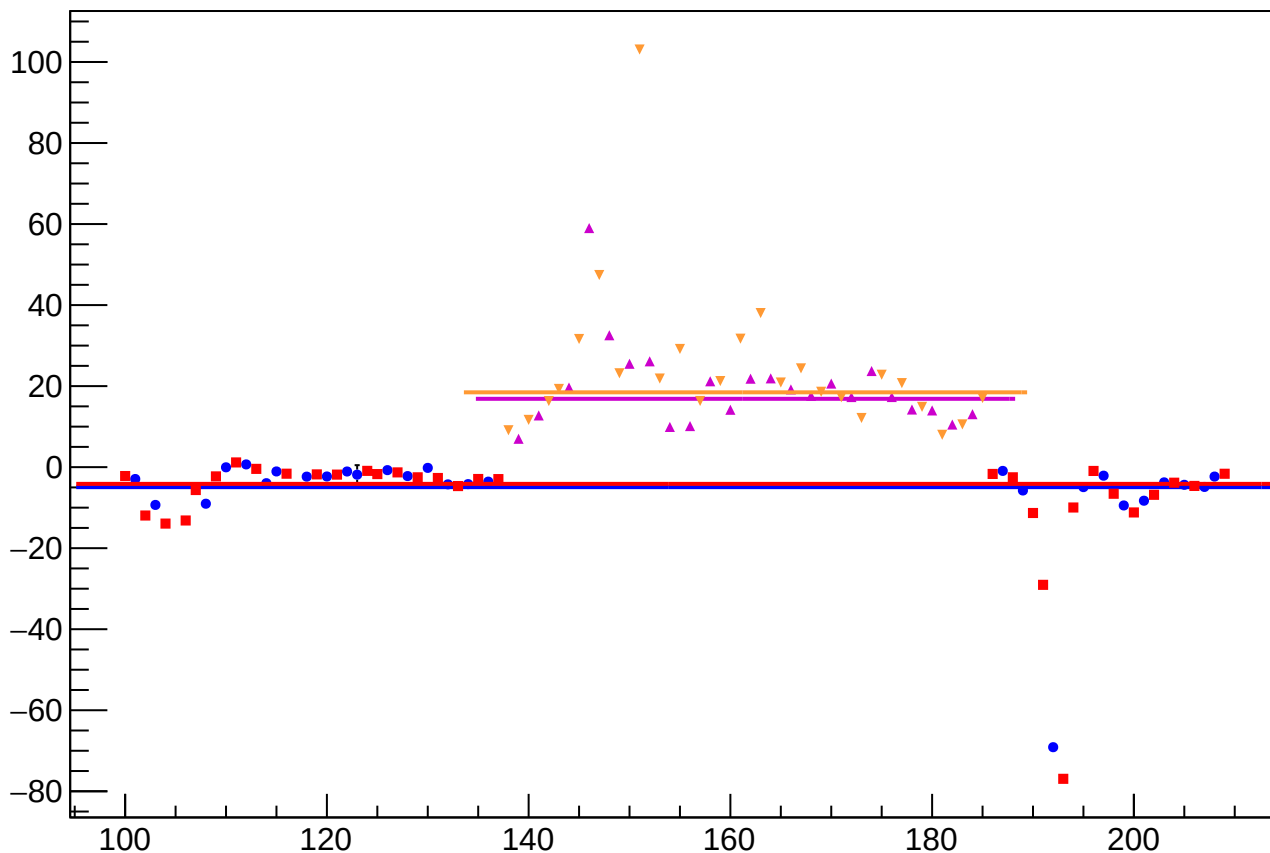
Right: 0.187 $\pm$ 0.033 χ^2 /NDF: 8089.6/59

In: 0.343 $\pm$ 0.026 χ^2 /NDF: 10043.5/50

Out: 0.382 $\pm$ 0.027 χ^2 /NDF: 11368.4/56

All: 0.362 $\pm$ 0.019 χ^2 /NDF: 21413.0/107

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.936 ± 0.049 $\chi^2/\text{NDF}: 26791.5/27$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -4.127 ± 0.044 $\chi^2/\text{NDF}: 28038.8/31$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

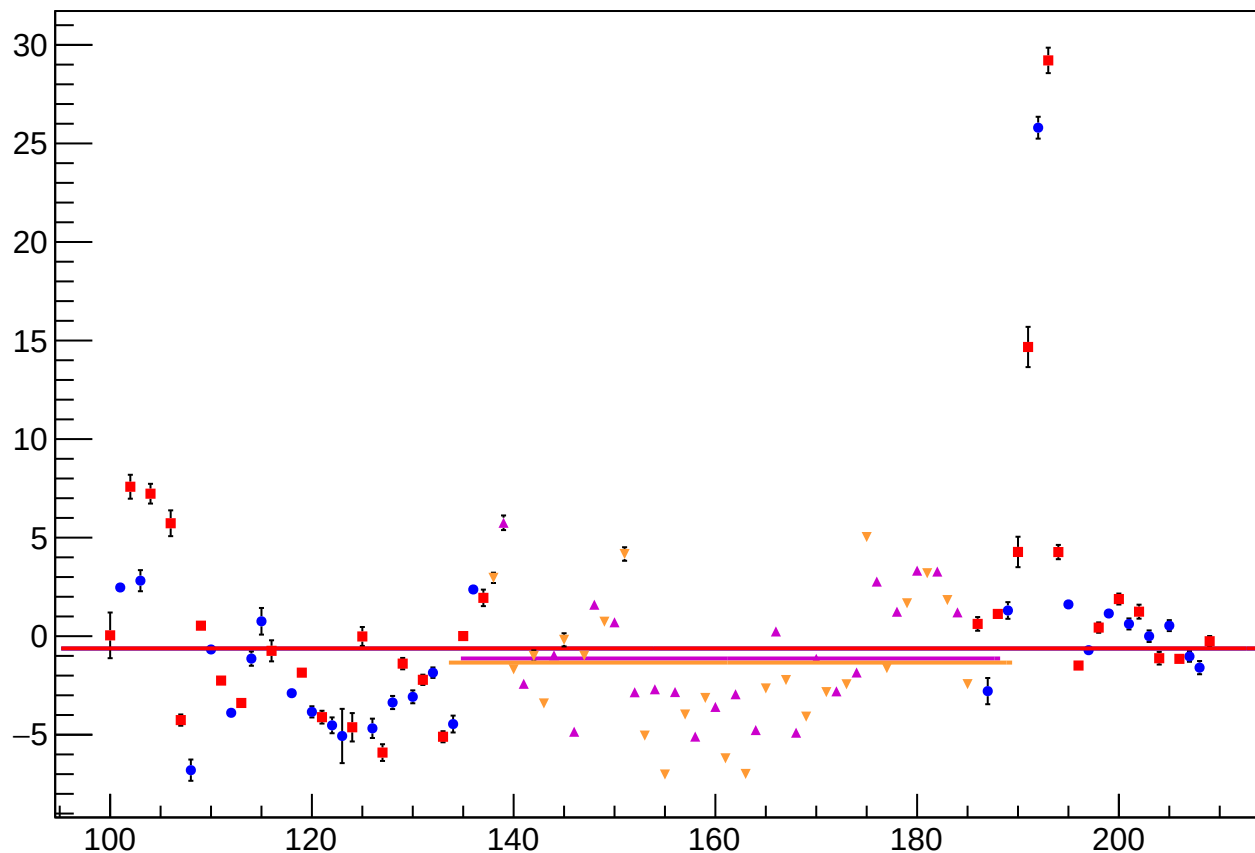
Right: -4.480 ± 0.033 $\chi^2/\text{NDF}: 54980.9/59$

In: 8.630 ± 0.030 $\chi^2/\text{NDF}: 187323.4/50$

Out: 8.152 ± 0.029 $\chi^2/\text{NDF}: 251775.1/56$

All: 8.383 ± 0.021 $\chi^2/\text{NDF}: 439225.9/107$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

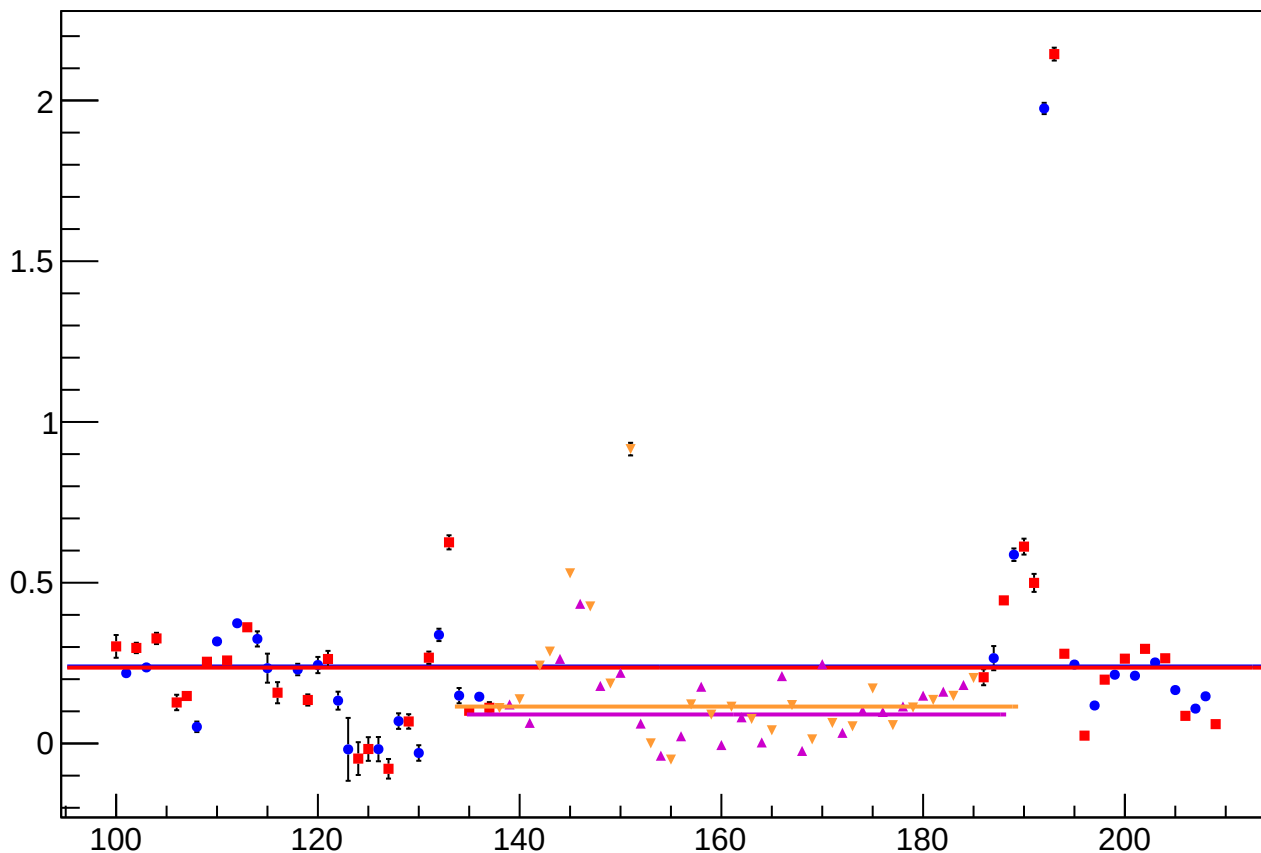


Right In: -0.628 ± 0.057 $\chi^2/\text{NDF}: 3910.1/27$
 Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$
 Right Out: -0.620 ± 0.053 $\chi^2/\text{NDF}: 4470.5/31$
 Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$
 Right: -0.624 ± 0.039 $\chi^2/\text{NDF}: 8380.6/59$
 In: -0.993 ± 0.030 $\chi^2/\text{NDF}: 10676.1/50$
 Out: -1.109 ± 0.030 $\chi^2/\text{NDF}: 12502.4/56$

All: -1.050 ± 0.021 $\chi^2/\text{NDF}: 23185.9/107$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.240 $\pm$ 0.002 χ^2 /NDF: 11301.4/27

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.236 $\pm$ 0.002 χ^2 /NDF: 12101.3/31

Left In: 0.090 $\pm$ 0.002 χ^2 /NDF:3676.5/22

Left: 0.102 $\pm$ 0.001 χ^2 /NDF: 8228.2/47

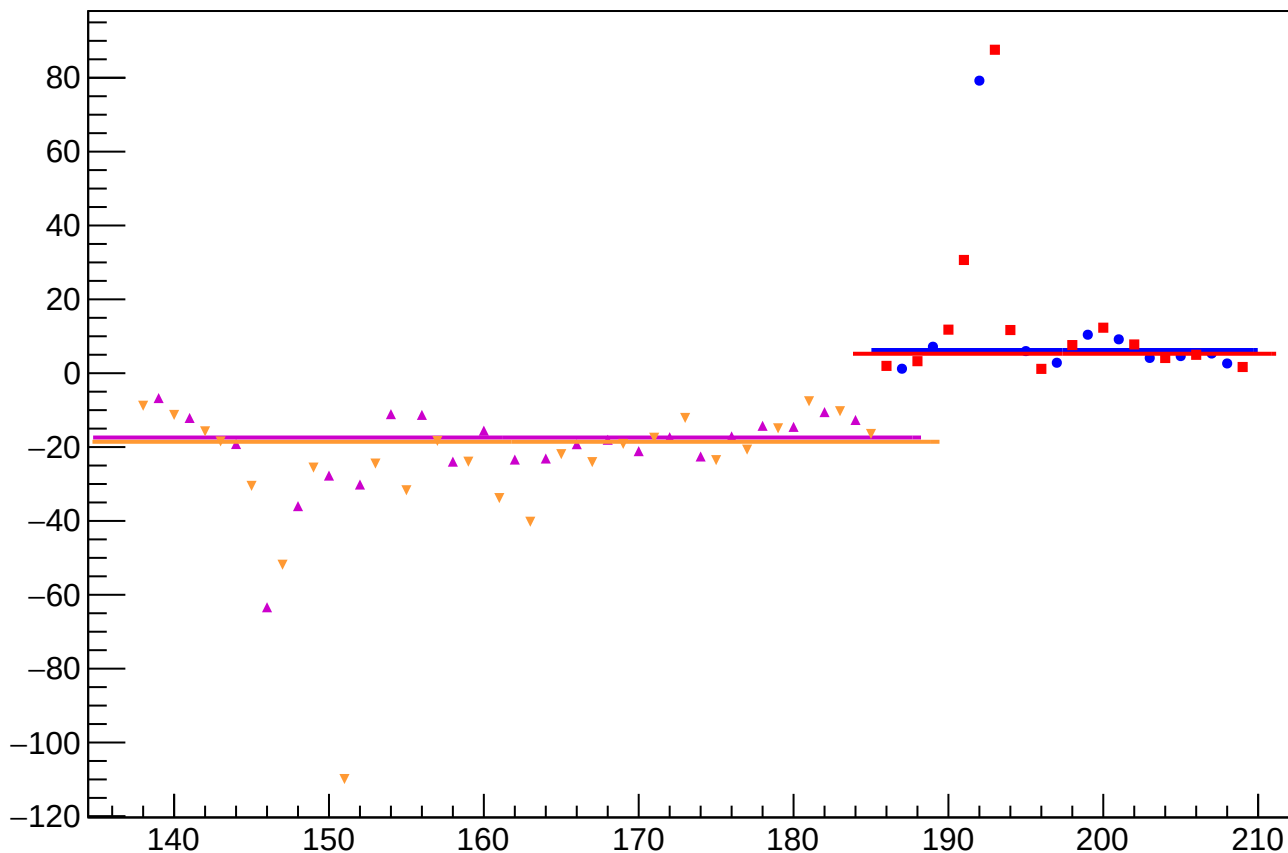
Right: 0.238 $\pm$ 0.002 χ^2 /NDF: 23403.8/59

In: 0.132 $\pm$ 0.001 χ^2 /NDF:17590.3/50

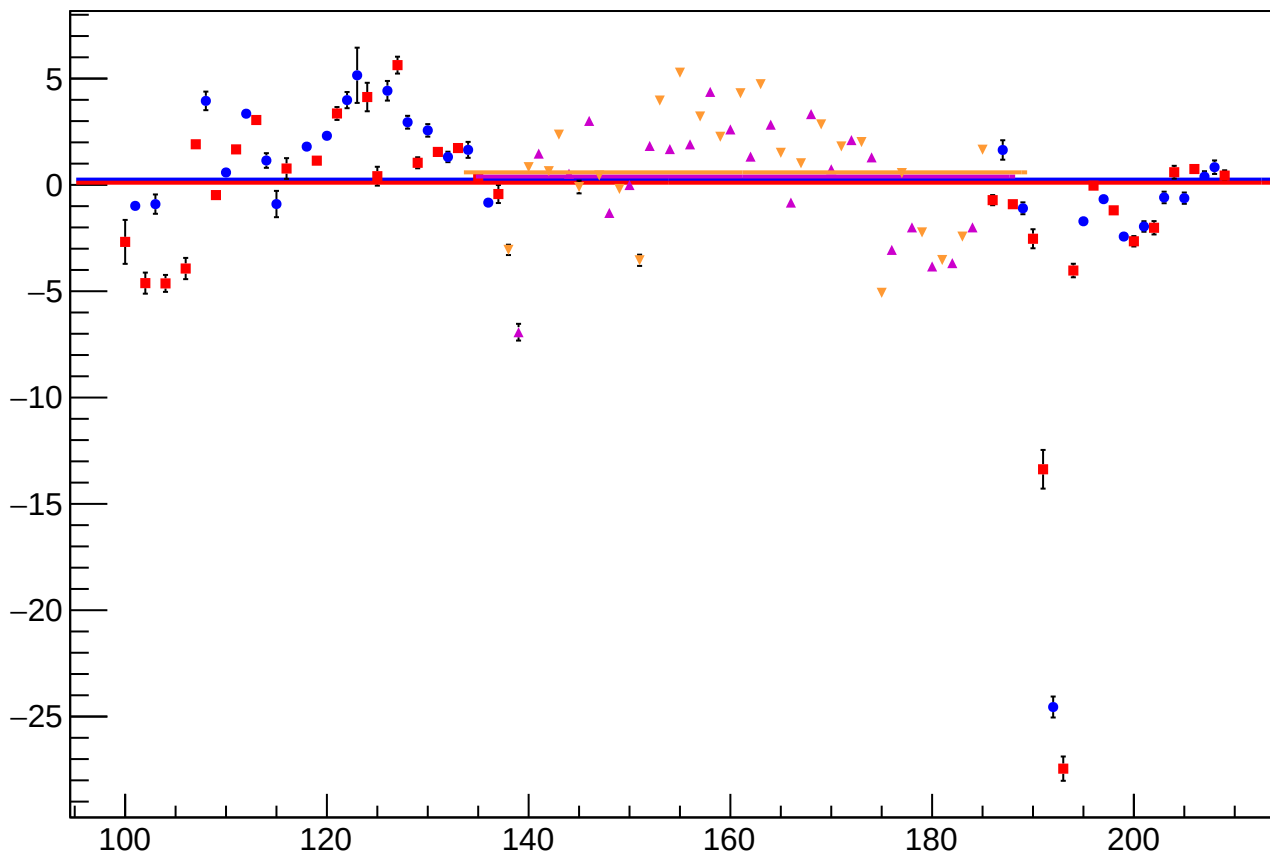
Out: 0.153 $\pm$ 0.001 χ^2 /NDF:18279.4/56

All: 0.142 $\pm$ 0.001 χ^2 /NDF: 36004.7/107

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.249+/-0.049 χ^2/NDF : 3860.9/27

Left Out: 0.591+/-0.033 χ^2/NDF : 6796.5/24

Right Out: 0.103+/-0.046 χ^2/NDF : 4214.3/31

Left In: 0.394+/-0.032 χ^2/NDF : 6059.8/22

Left: 0.488+/-0.023 χ^2/NDF : 12874.6/47

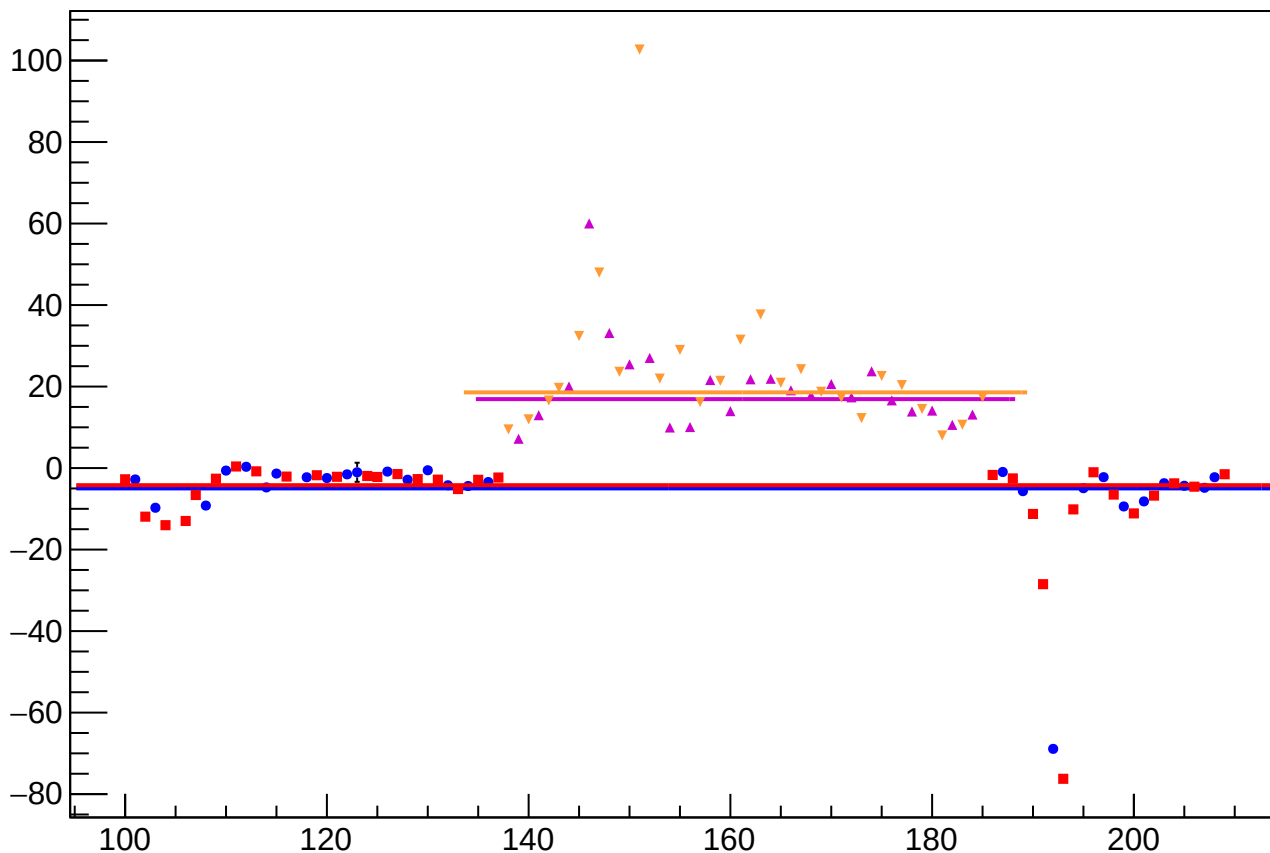
Right: 0.171+/-0.034 χ^2/NDF : 8079.8/59

In: 0.352+/-0.027 χ^2/NDF : 9926.8/50

Out: 0.425+/-0.027 χ^2/NDF : 11083.9/56

All: 0.388+/-0.019 χ^2/NDF : 21014.4/107

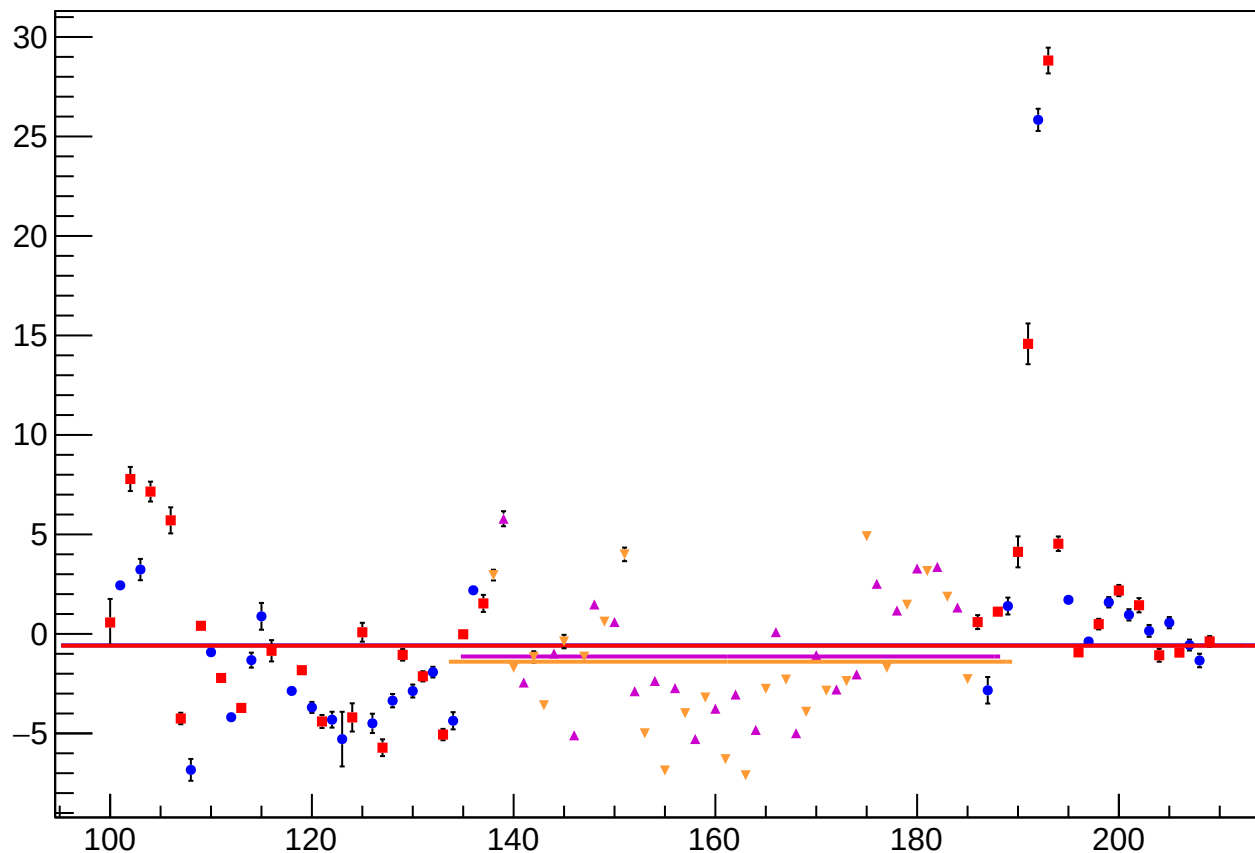
reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.988 ± 0.050 $\chi^2/\text{NDF}: 26124.5/27$
 Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$
 Right Out: -4.197 ± 0.044 $\chi^2/\text{NDF}: 27189.8/31$
 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: -4.543 ± 0.033 $\chi^2/\text{NDF}: 53454.4/59$
 In: 8.680 ± 0.031 $\chi^2/\text{NDF}: 185510.0/50$
 Out: 8.237 ± 0.030 $\chi^2/\text{NDF}: 248412.4/56$
 All: 8.451 ± 0.021 $\chi^2/\text{NDF}: 434029.5/107$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected

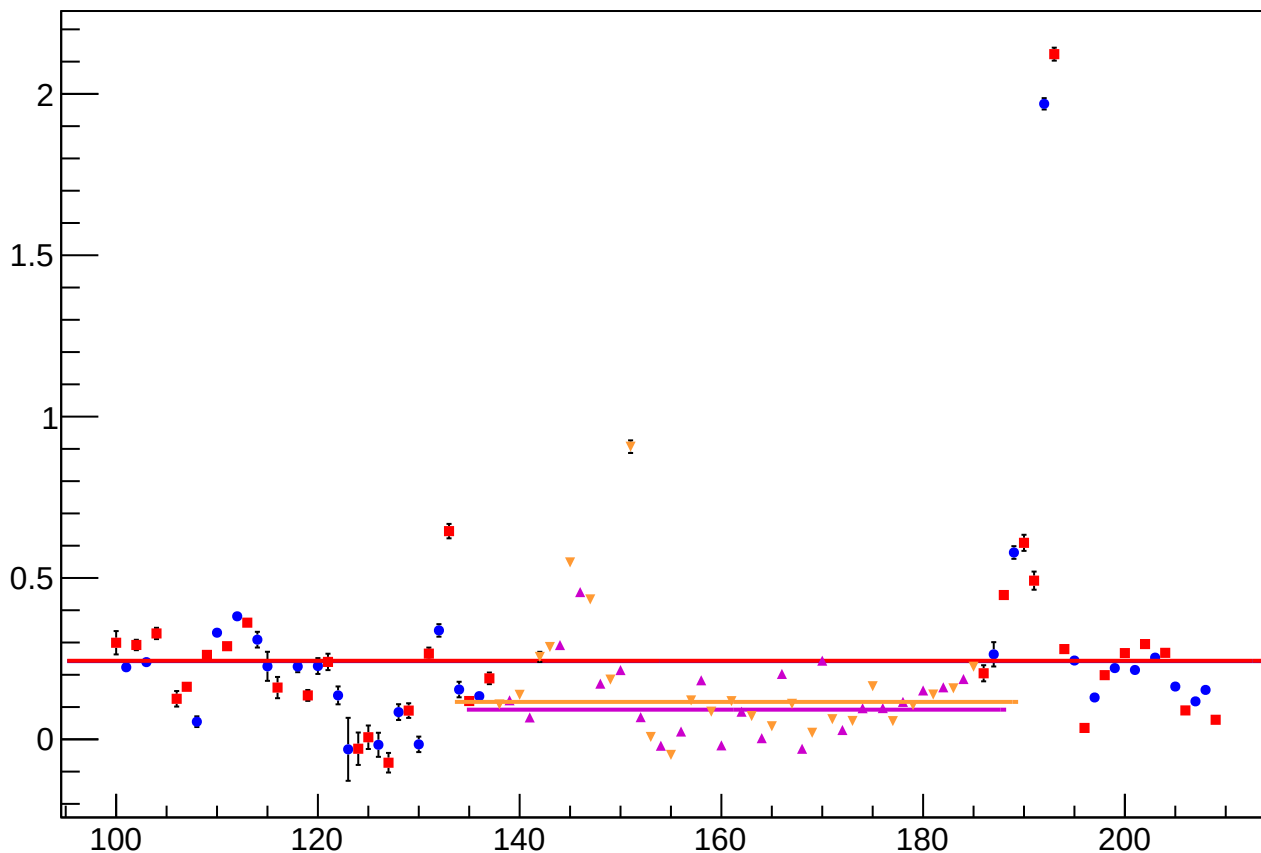


Right In: -0.577 ± 0.057 $\chi^2/\text{NDF}: 3903.8/27$
 Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$
 Right Out: -0.592 ± 0.054 $\chi^2/\text{NDF}: 4407.9/31$
 Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$
 Right: -0.585 ± 0.039 $\chi^2/\text{NDF}: 8311.7/59$
 In: -0.981 ± 0.030 $\chi^2/\text{NDF}: 10570.4/50$
 Out: -1.140 ± 0.030 $\chi^2/\text{NDF}: 12211.0/56$

All: -1.059 ± 0.021 $\chi^2/\text{NDF}: 22795.1/107$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.242 ± 0.003 $\chi^2/\text{NDF}: 11035.3/27$

Left Out: 0.116 ± 0.002 $\chi^2/\text{NDF}: 4463.0/24$

Right Out: 0.243 ± 0.002 $\chi^2/\text{NDF}: 11589.9/31$

Left In: 0.092 ± 0.002 $\chi^2/\text{NDF}: 3631.4/22$

Left: 0.103 ± 0.001 $\chi^2/\text{NDF}: 8207.3/47$

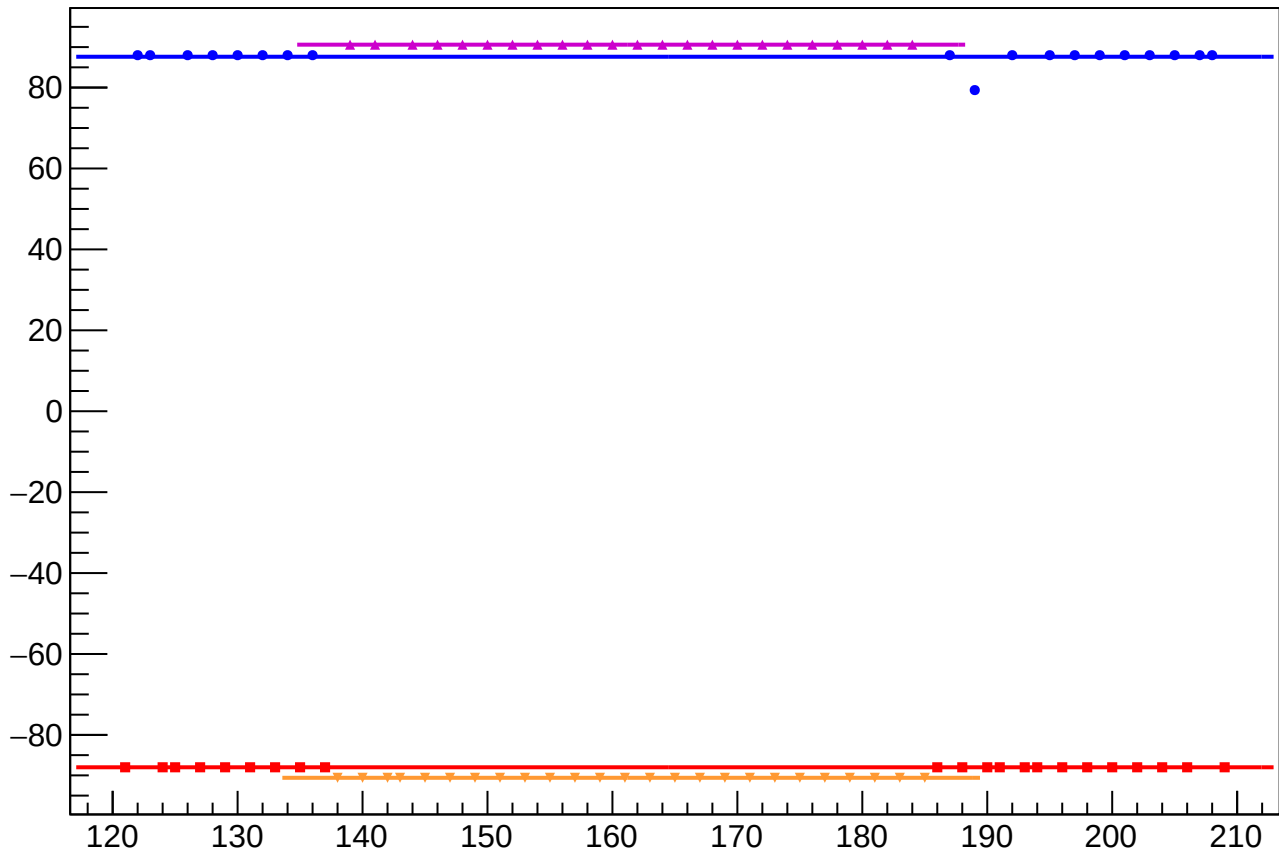
Right: 0.243 ± 0.002 $\chi^2/\text{NDF}: 22625.2/59$

In: 0.133 ± 0.001 $\chi^2/\text{NDF}: 17256.5/50$

Out: 0.156 ± 0.001 $\chi^2/\text{NDF}: 17931.5/56$

All: 0.144 ± 0.001 $\chi^2/\text{NDF}: 35332.0/107$

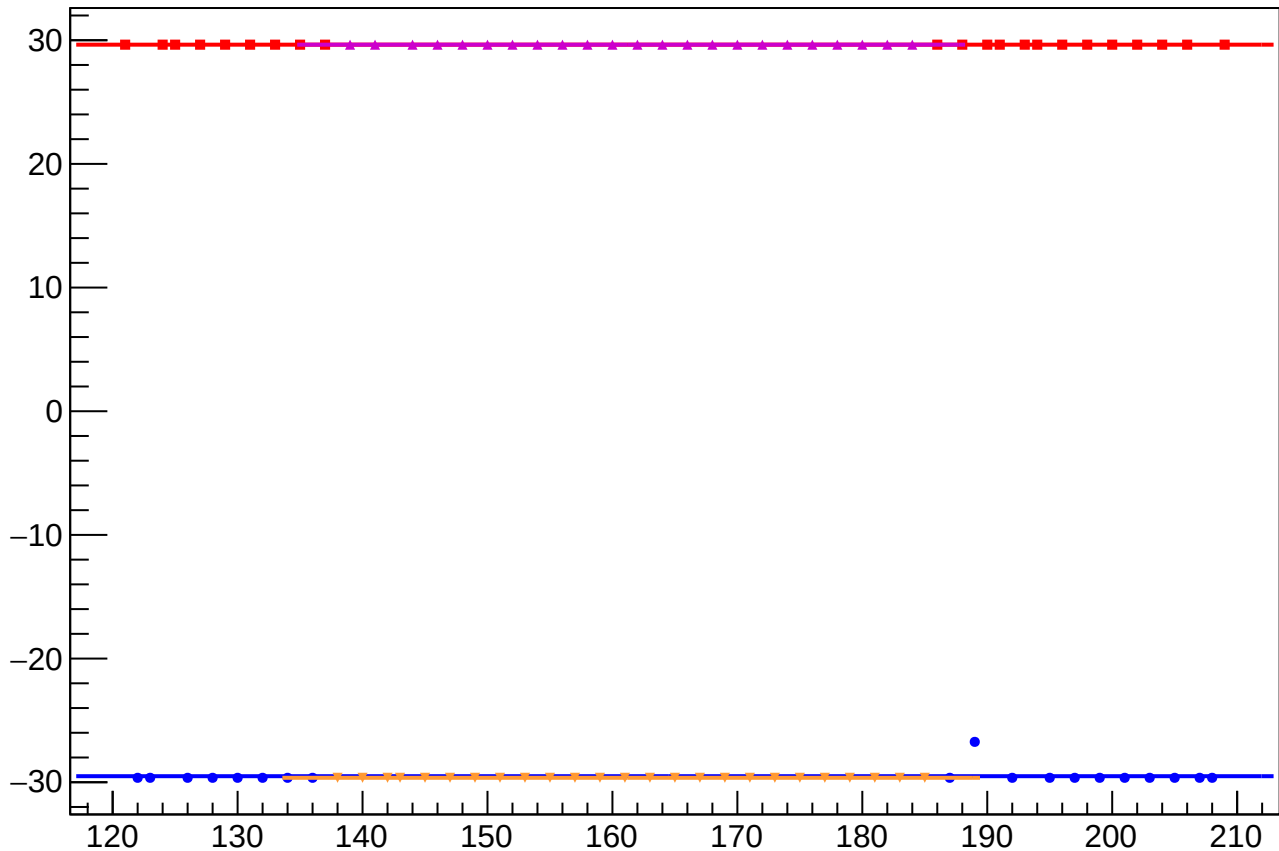
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.615 ± 0.000 χ^2/NDF : 3626609238946743582136046582759424.0/18
 Left Out: -90.599 ± 0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001 ± 0.000 χ^2/NDF : 854241.7/21
 Left In: 90.599 ± 0.000 χ^2/NDF : 5932436.0/22

Left: -2.410 ± 0.000 χ^2/NDF : 30521213250005045
 Right: -3.092 ± 0.000 χ^2/NDF : 1819538871908890
 In: 89.445 ± 0.000 χ^2/NDF : 986231337662325249
 Out: -89.586 ± 0.000 χ^2/NDF : 5027193936280860
 All: -2.675 ± 0.000 χ^2/NDF : 4871727372019

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.511+/-0.000

χ^2/NDF : 411439025266603048189945716932608.0/18

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

Right Out: 29.641+/-0.000

χ^2/NDF : 1416844.7/21

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

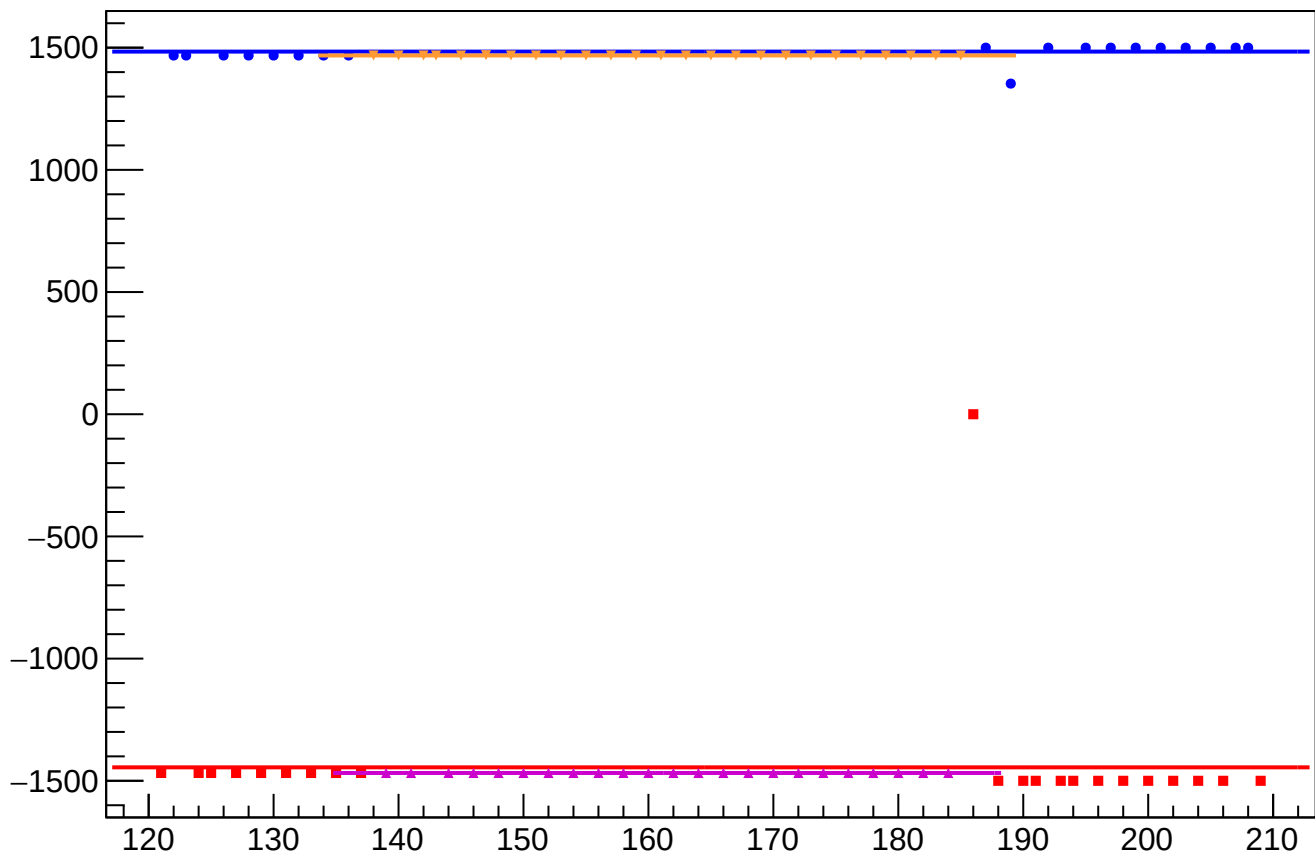
Right: 1.042+/-0.000 χ^2/NDF : 20642678892814239

In: 6.765+/-0.000 χ^2/NDF : 2450910570833328648

Out: -6.534+/-0.000 χ^2/NDF : 26162898411766887

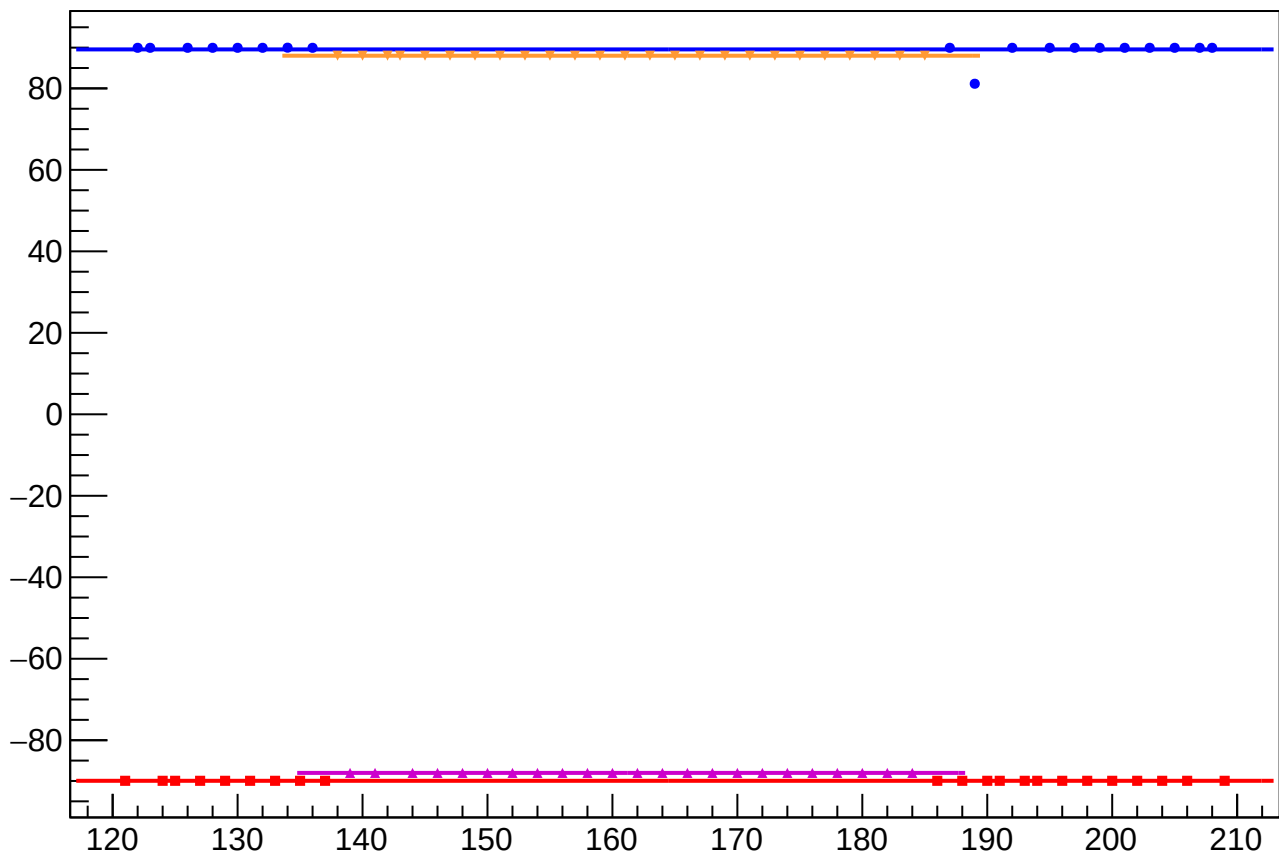
All: -0.078+/-0.000 χ^2/NDF : 5335957091999

psub_pl_pos_mean vs Slug, Sign Corrected



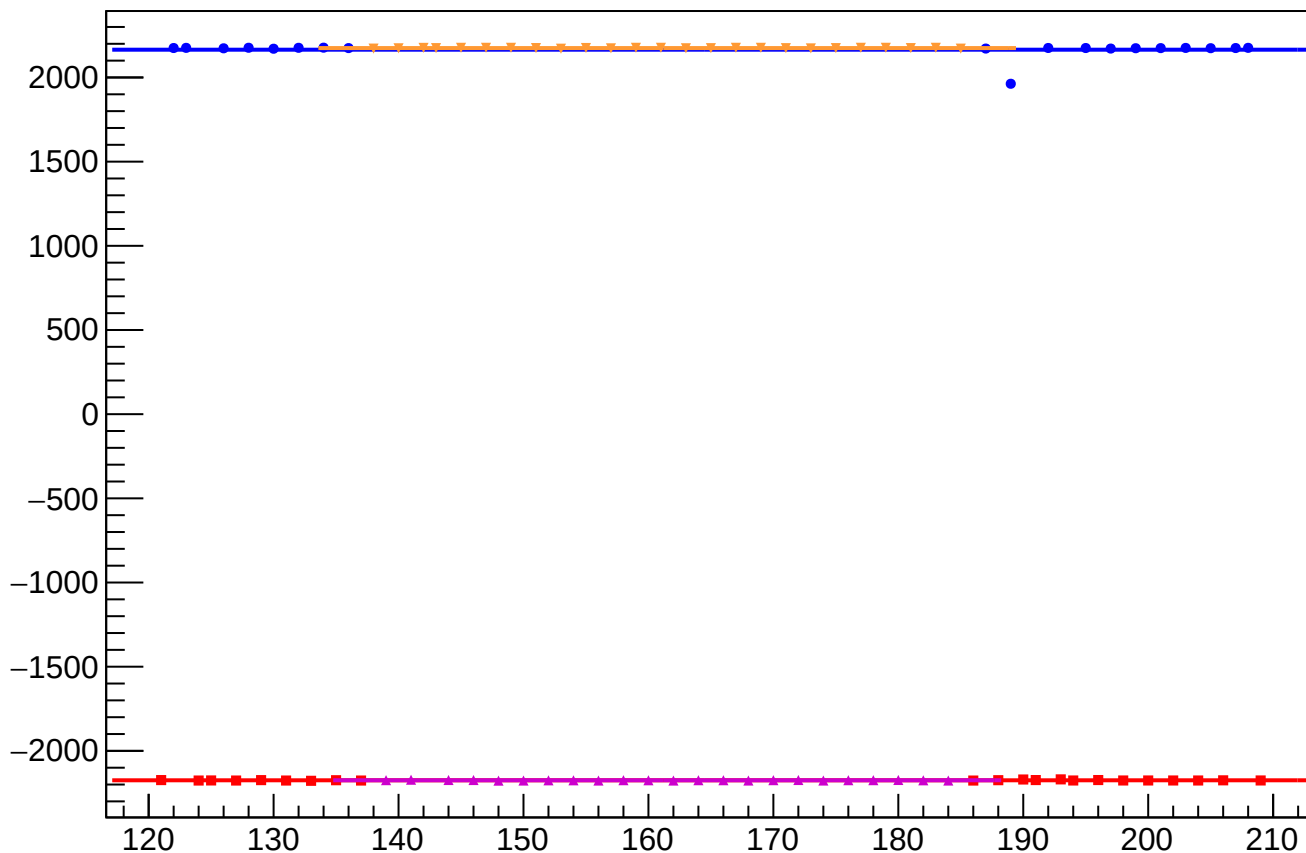
Right In: 1483.928+/-0.000 χ^2/NDF : 1155537212784247511664857980923281408.0/18
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127960980922965975039069502046208.0/24
 Right Out: -1444.959+/-0.000 χ^2/NDF : 82128001570116895764286664393967534080.0/21
 Left In: -1467.994+/-0.000 χ^2/NDF : 145848702340275035310993178624.0/22
 All: 12.696+/-0.000 χ^2/NDF : 1316336225105

Phi_FG_mean vs Slug, Sign Corrected



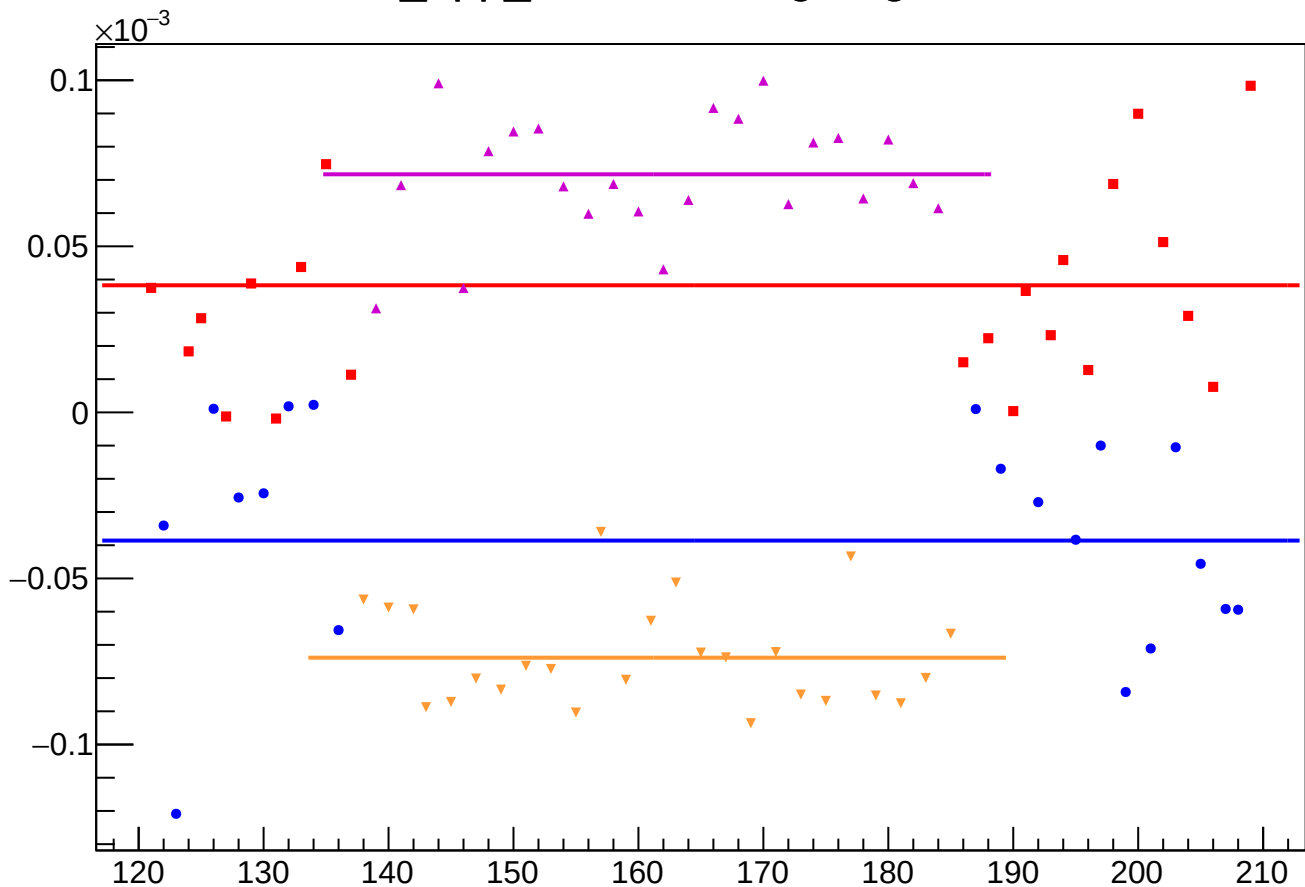
Right In: 89.566+/-0.000	χ^2/NDF : 3790406684485380507050727075479552.0/18	Left: 2.342+/-0.000	χ^2/NDF : 288085769312401978
Left Out: 88.021+/-0.000	χ^2/NDF : 5326388.8/24	Right: -3.161+/-0.000	χ^2/NDF : 1901446503416386
Right Out: -89.959+/-0.000	χ^2/NDF : 3644360.7/21	In: -19.343+/-0.000	χ^2/NDF : 22091067468913336
Left In: -88.021+/-0.000	χ^2/NDF : 6084099.2/22	Out: 18.648+/-0.000	χ^2/NDF : 23582577223028712
		All: 0.205+/-0.000	χ^2/NDF : 47866791607663

HALLA_p_mean vs Slug, Sign Corrected



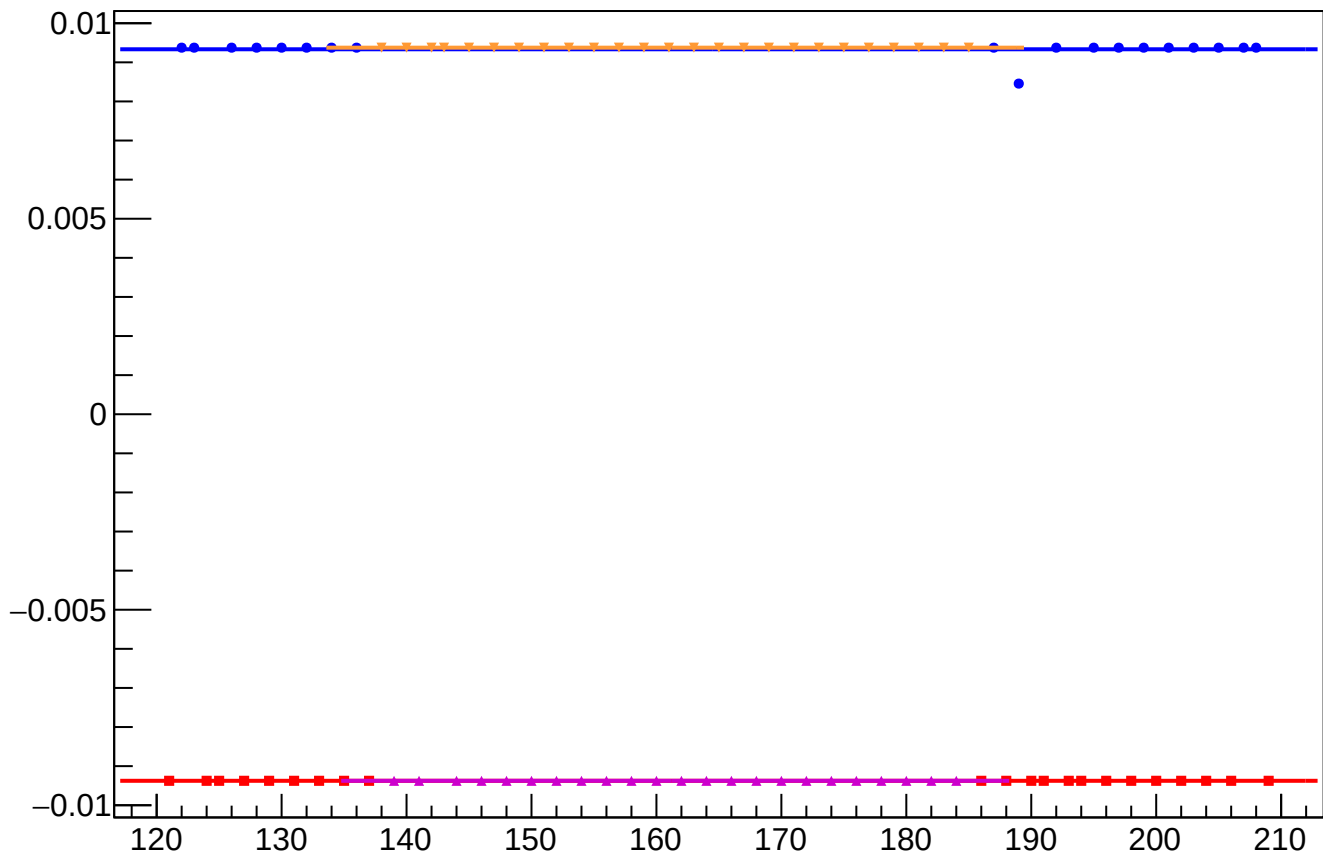
Right In: 2164.958+/-0.000	χ^2/NDF : 2188095653708624315587542384623222784.0/18	Left: 57.898+/-0.000	χ^2/NDF : 1758341875465085
Left Out: 2174.622+/-0.000	χ^2/NDF : 5110578135476093110874911595823104.0/24	Right: -76.564+/-0.000	χ^2/NDF : 111111268910562
Right Out: -2174.777+/-0.000	χ^2/NDF : 4677903557829688456678767245393920.0/21	In: -496.345+/-0.000	χ^2/NDF : 1319082811257997
Left In: -2174.539+/-0.000	χ^2/NDF : 3400742562425168967494665391570944.0/22	Out: 479.329+/-0.000	χ^2/NDF : 1408340188744905
	All: 5.687+/-0.000	χ^2/NDF : 28720668641369	

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000	χ^2/NDF : 800845618972012297846784.0/18	Left: -0.000+/-0.000	χ^2/NDF : 20702696564433151
Left Out: -0.000+/-0.000	χ^2/NDF : 450400934180541069000704.0/24	Right: 0.000+/-0.000	χ^2/NDF : 53513949816318930
Right Out: 0.000+/-0.000	χ^2/NDF : 1065754048934139928772608.0/21	In: 0.000+/-0.000	χ^2/NDF : 9880153917813251171
Left In: 0.000+/-0.000	χ^2/NDF : 562166279020739416817664.0/22	Out: -0.000+/-0.000	χ^2/NDF : 10875501378166094
		All: -0.000+/-0.000	χ^2/NDF : 2607871799751

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41159589246161505698709504.0/18

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/21

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2065054921851648

In: -0.002+/-0.000

χ^2/NDF : 245184501662690302

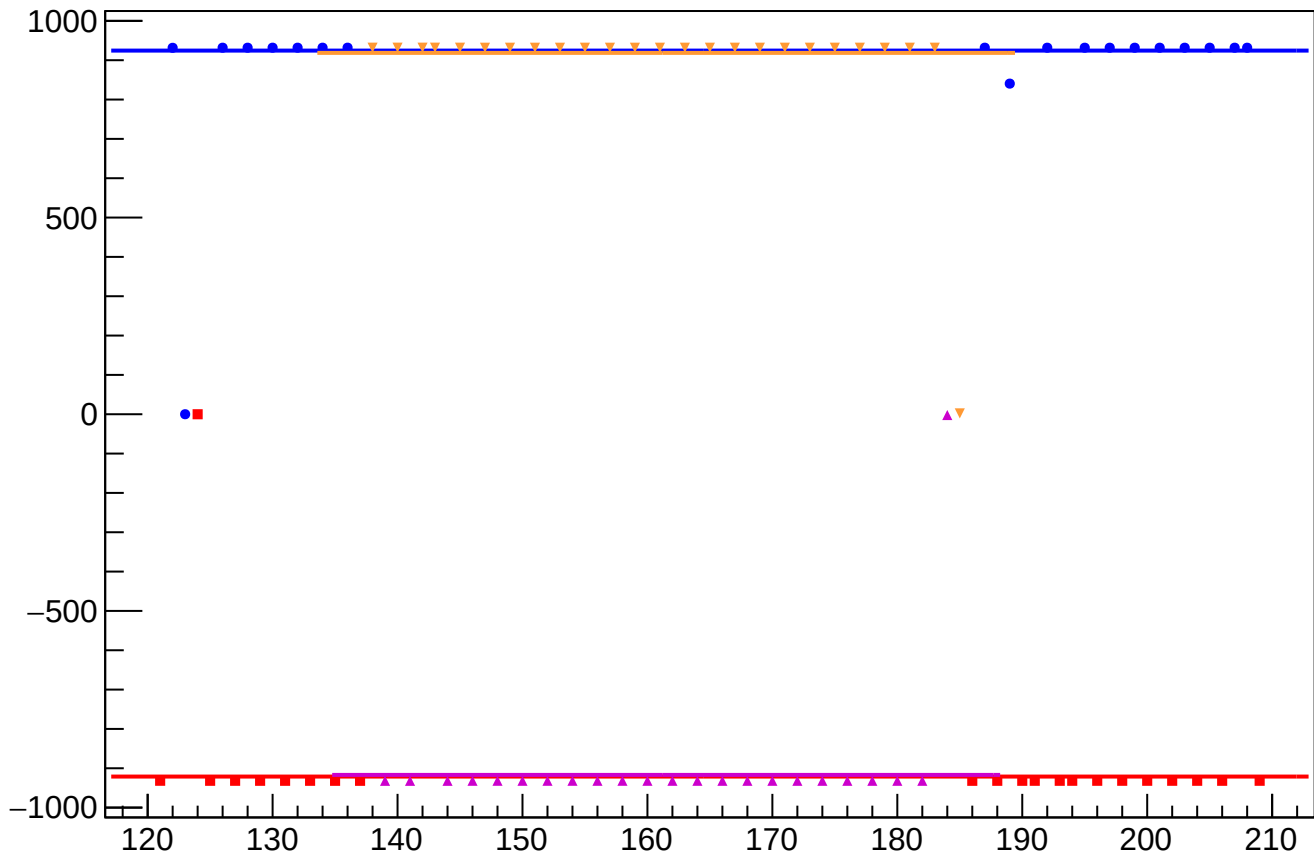
Out: 0.002+/-0.000

χ^2/NDF : 261728734025558421

All: 0.000+/-0.000

χ^2/NDF : 53379915043189

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 924.447+/-0.000

χ^2/NDF : 3836233459820475590570397393303371776.0/18

Left Out: 918.645+/-0.000

χ^2/NDF : 23003498704056084939752432521336324096.0/24

Right Out: -921.107+/-0.000

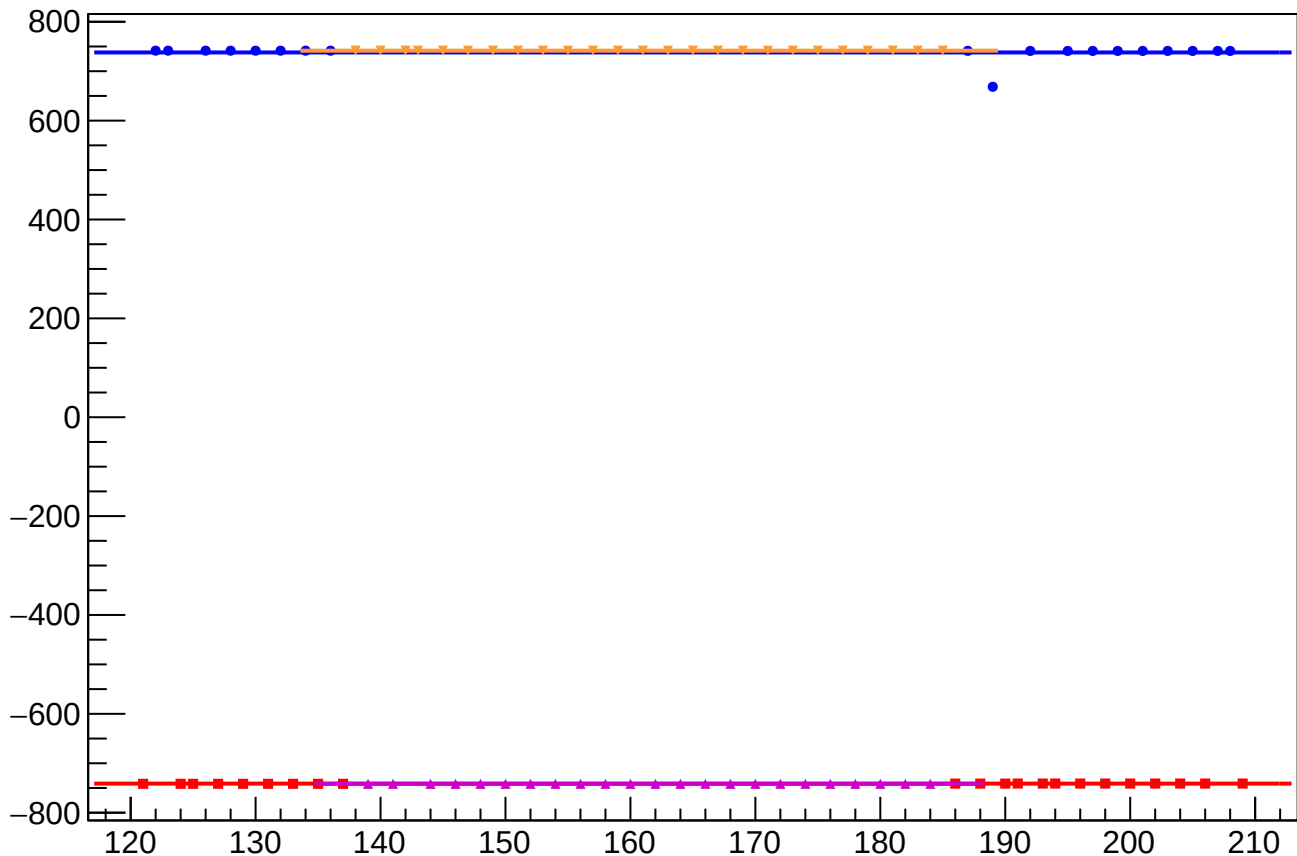
χ^2/NDF : 12015203530394889902961087465748692992.0/21

Left In: -916.890+/-0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

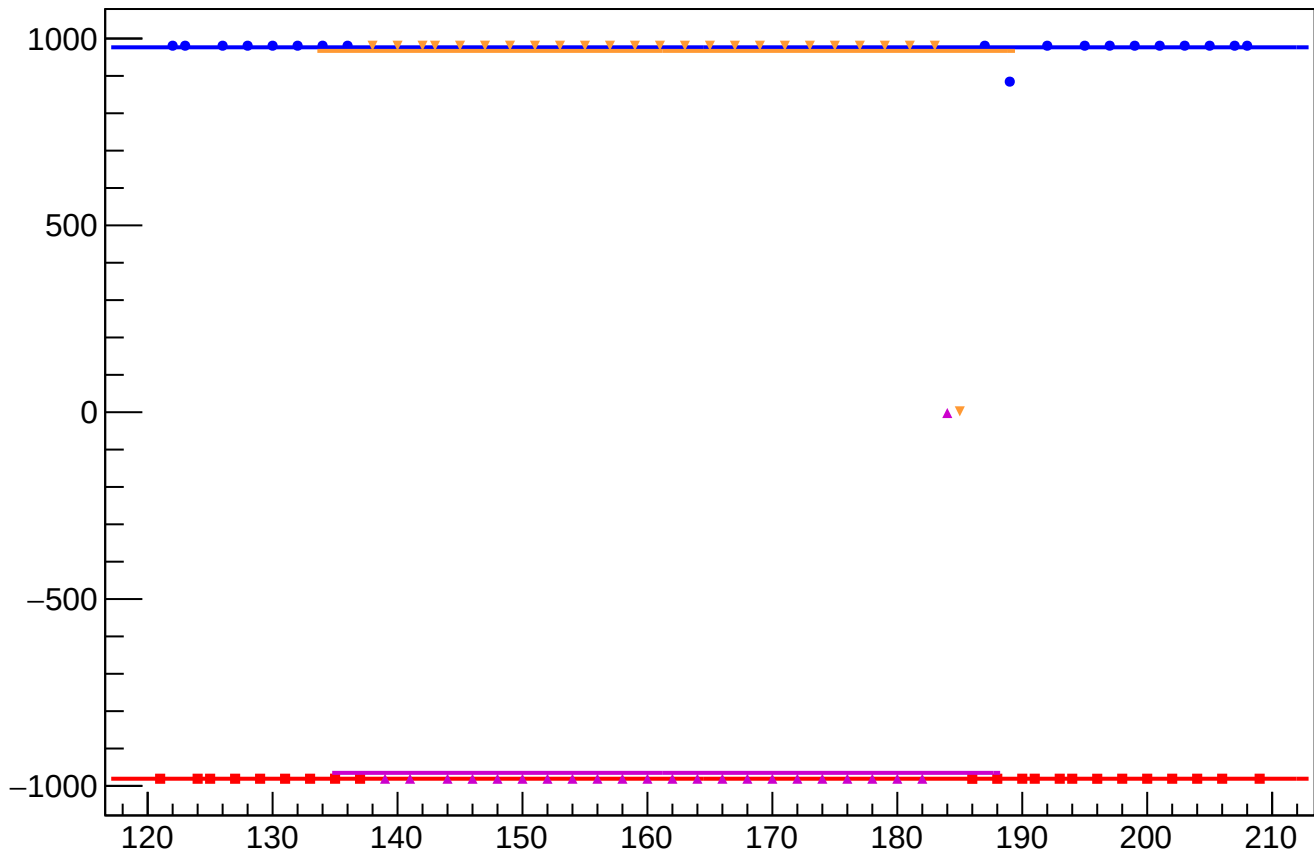
Left: 25.295+/-0.000 χ^2/NDF : 31796385721824018
 Right: -28.803+/-0.000 χ^2/NDF : 202494341355856
 In: -204.798+/-0.000 χ^2/NDF : 2403088817899289
 Out: 201.553+/-0.000 χ^2/NDF : 2554826478766866
 All: 4.289+/-0.000 χ^2/NDF : 52088104833517

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 737.938 +/- 0.000 χ^2/NDF : 257449029585973523215828748515409920.0/18
 Left Out: 741.513 +/- 0.000 χ^2/NDF : 244782737401533731539808944128.0/24
 Right Out: -741.175 +/- 0.000 χ^2/NDF : 55982367044980312976678260310016.0/21
 Left In: -741.512 +/- 0.000 χ^2/NDF : 215375309108434607405602439168.0/22
 All: 1.957 +/- 0.000 χ^2/NDF : 33382660169906.0/27

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 976.519+/-0.000

χ^2/NDF : 450655130738622036092167746991685632.0/18

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.821+/-0.000

χ^2/NDF : 3359793043466284801536626262016.0/21

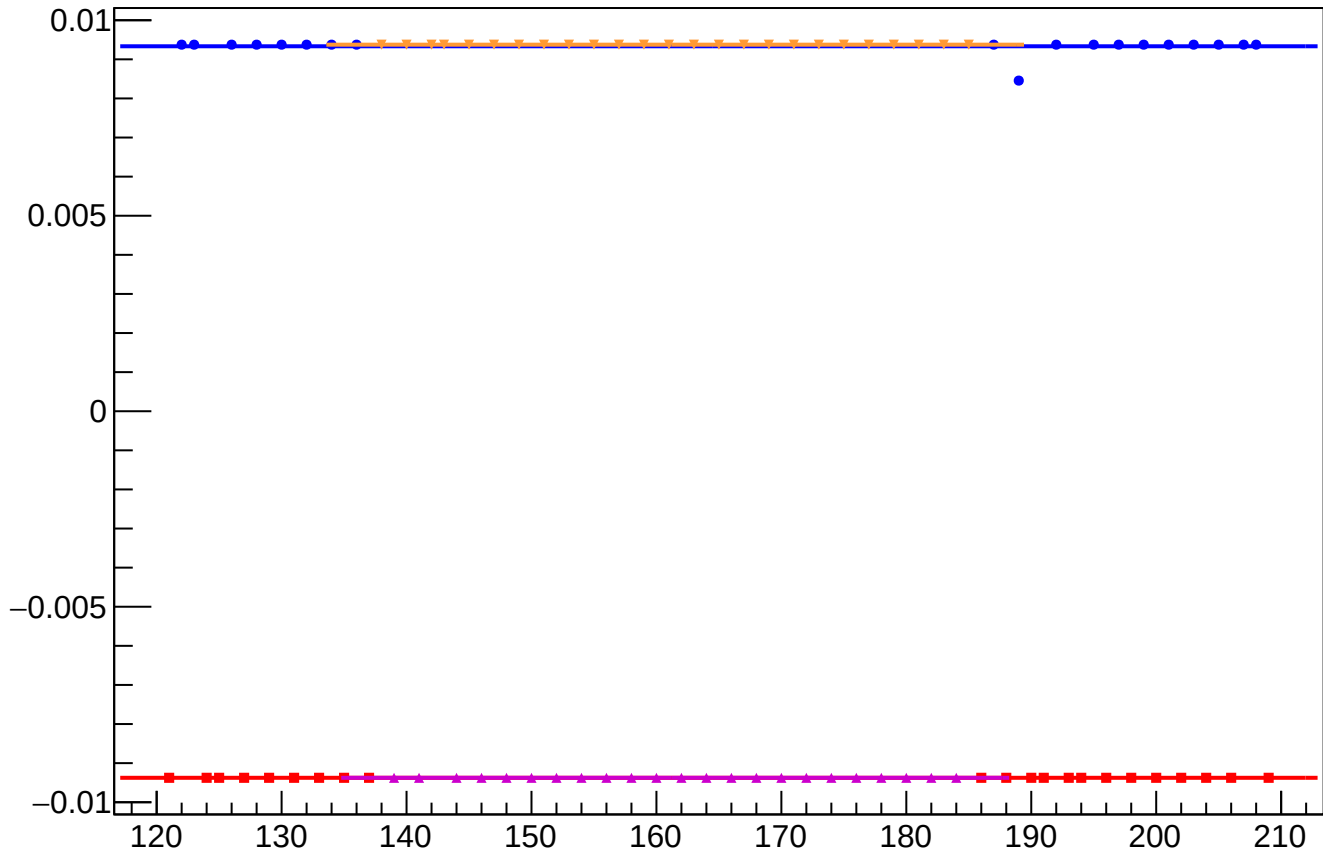
Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 2.898+/-0.000

χ^2/NDF : 57884545789854

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41159589246161505698709504.0/18

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/21

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2065054921851648

In: -0.002+/-0.000

χ^2/NDF : 245184501662690302

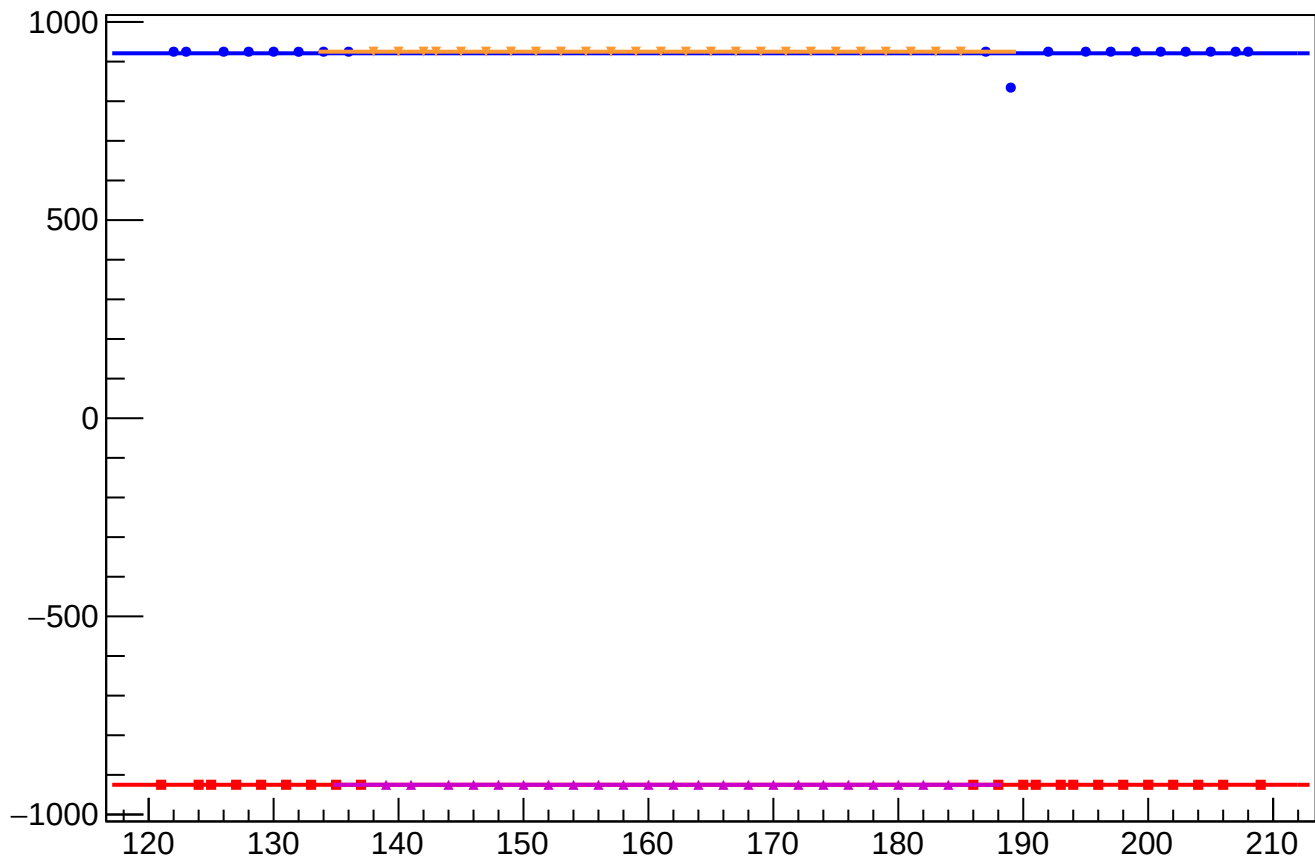
Out: 0.002+/-0.000

χ^2/NDF : 261728734025558421

All: 0.000+/-0.000

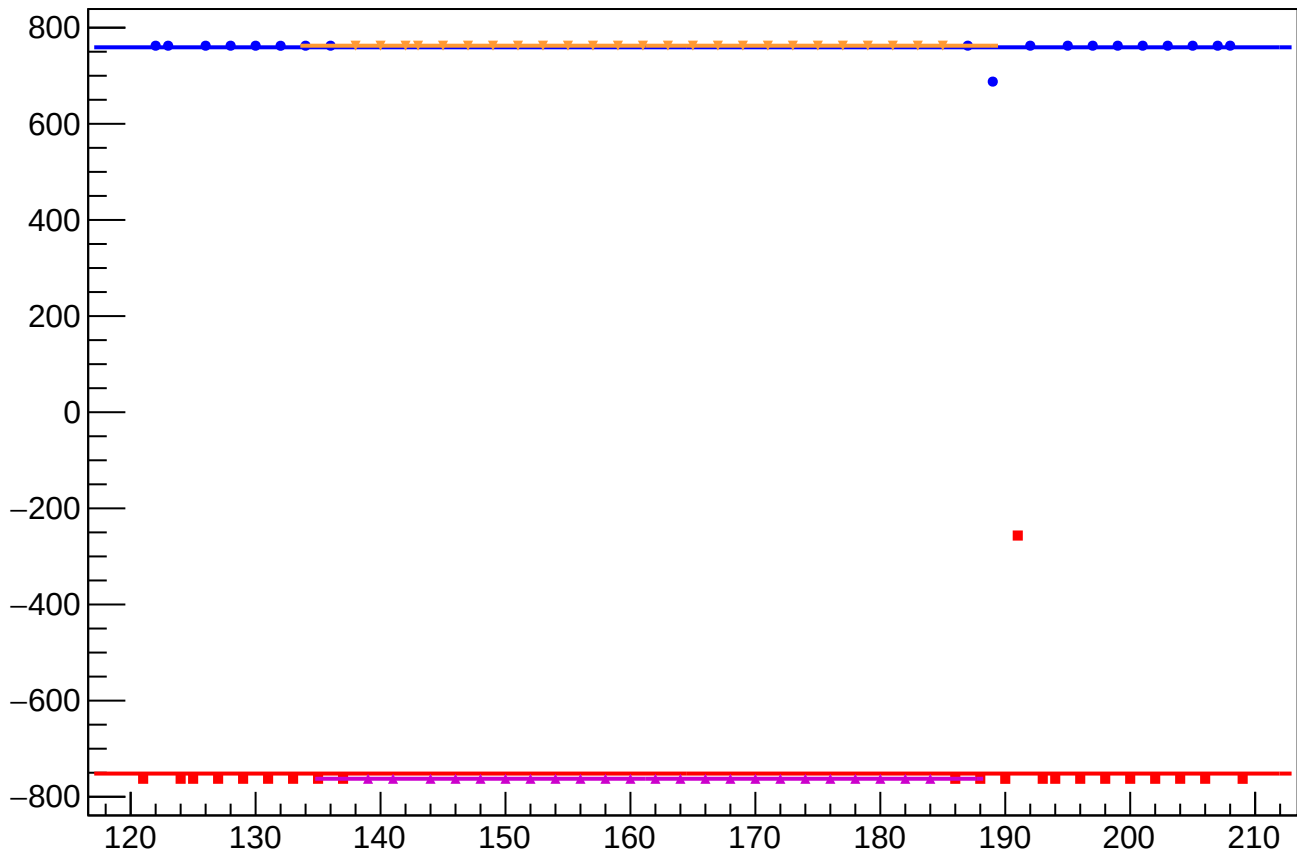
χ^2/NDF : 53379915043189

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 920.943+/-0.000	χ^2/NDF : 400380759699512062843030744065900544.0/18	Left: 24.610+/-0.000	χ^2/NDF : 31814082693920915
Left Out: 924.983+/-0.000	χ^2/NDF : 1041831865443970524066476982272.0/24	Right: -32.507+/-0.000	χ^2/NDF : 201033383047340
Right Out: -924.998+/-0.000	χ^2/NDF : 881013685431807326758859964416.0/21	In: -211.116+/-0.000	χ^2/NDF : 2386835754560672
Left In: -924.983+/-0.000	χ^2/NDF : 888539224321534960792212865024.0/22	Out: 203.904+/-0.000	χ^2/NDF : 2547904635704187
	All: 2.432+/-0.000		χ^2/NDF : 51964555737889

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 759.176+/-0.000 χ^2/NDF : 271879760829879660672924421460066304.0/18

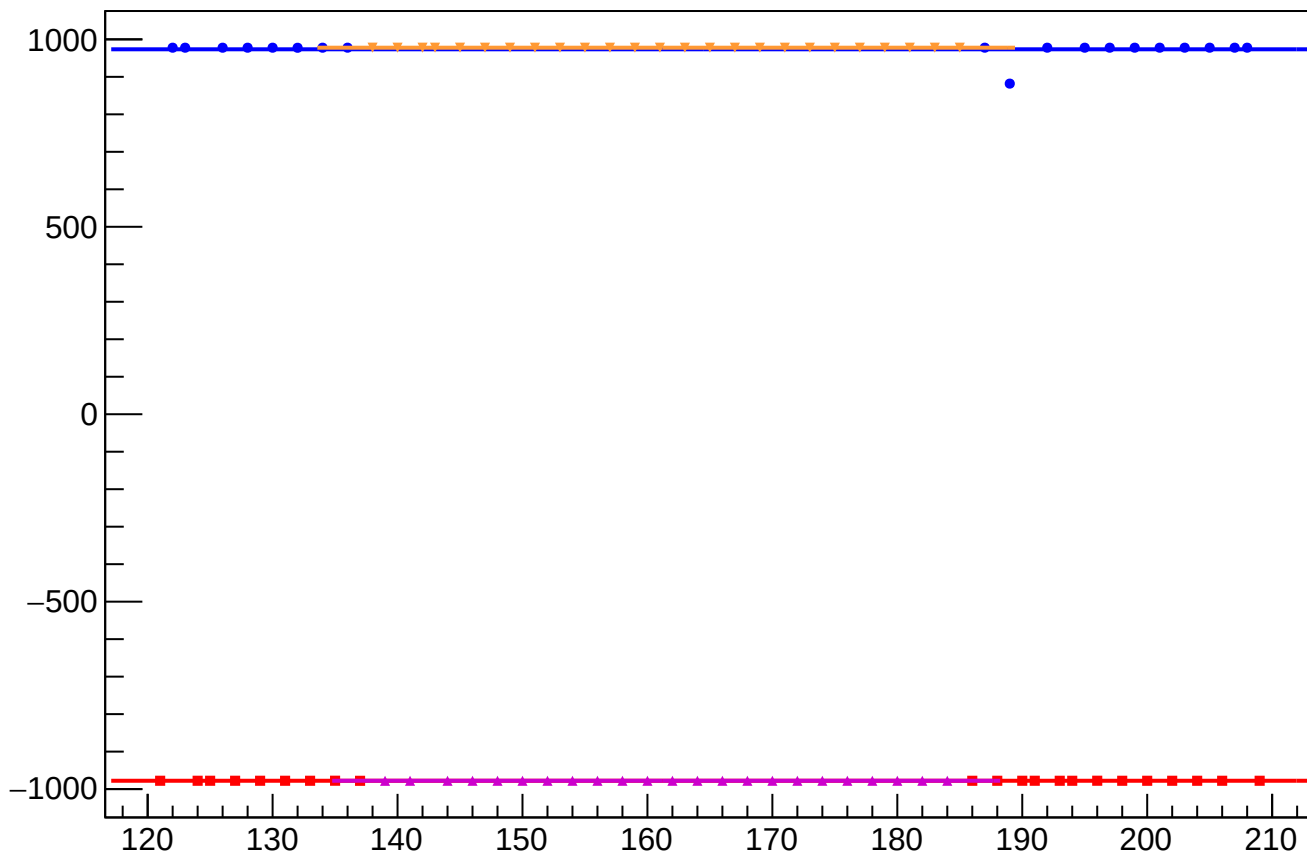
Left Out: 762.518+/-0.000 χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -751.746+/-0.000 χ^2/NDF : 6514512333971860606510961205784346624.0/21

Left In: -762.519+/-0.000 χ^2/NDF : 629058355419214408155297480704.0/22

All: 4.165+/-0.000 χ^2/NDF : 35178388591075

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 973.479+/-0.000 χ^2/NDF : 447525266667319403509411812915281920.0/18

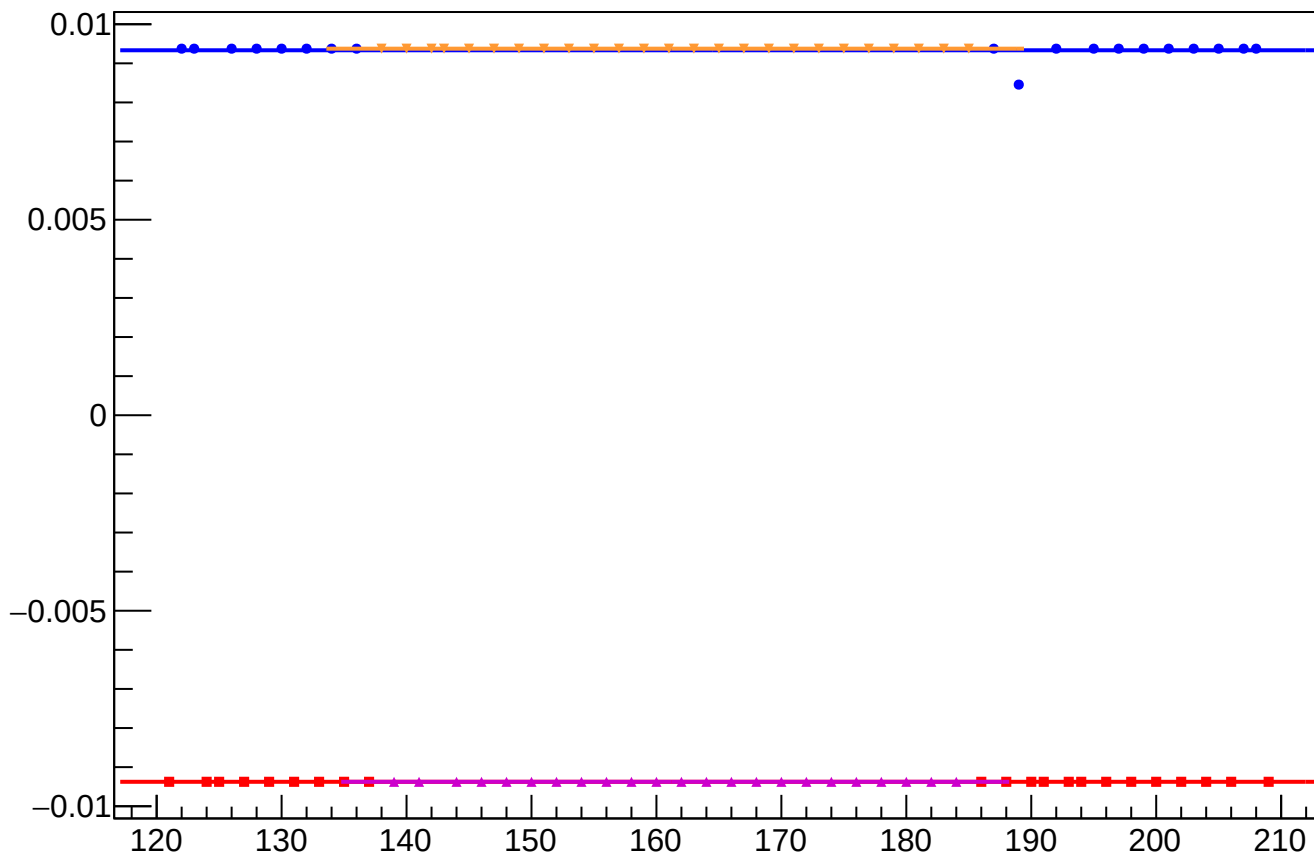
Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24

Right Out: -977.755+/-0.000 χ^2/NDF : 1834458649569687373538748530688.0/21

Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22

All: 2.573+/-0.000 χ^2/NDF : 58061212789457

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41159589246161505698709504.0/18

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/21

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2065054921851648

In: -0.002+/-0.000

χ^2/NDF : 245184501662690302

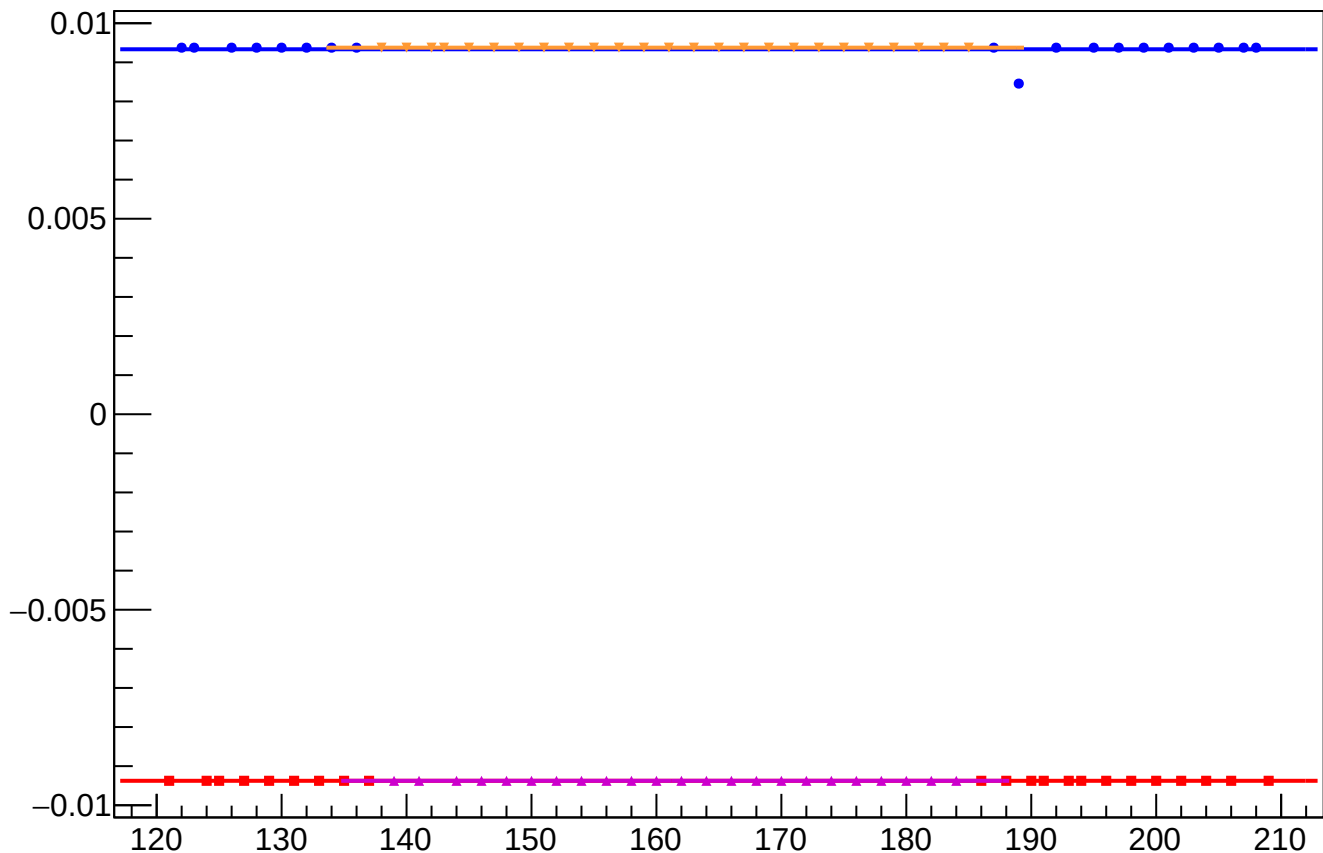
Out: 0.002+/-0.000

χ^2/NDF : 261728734025558421

All: 0.000+/-0.000

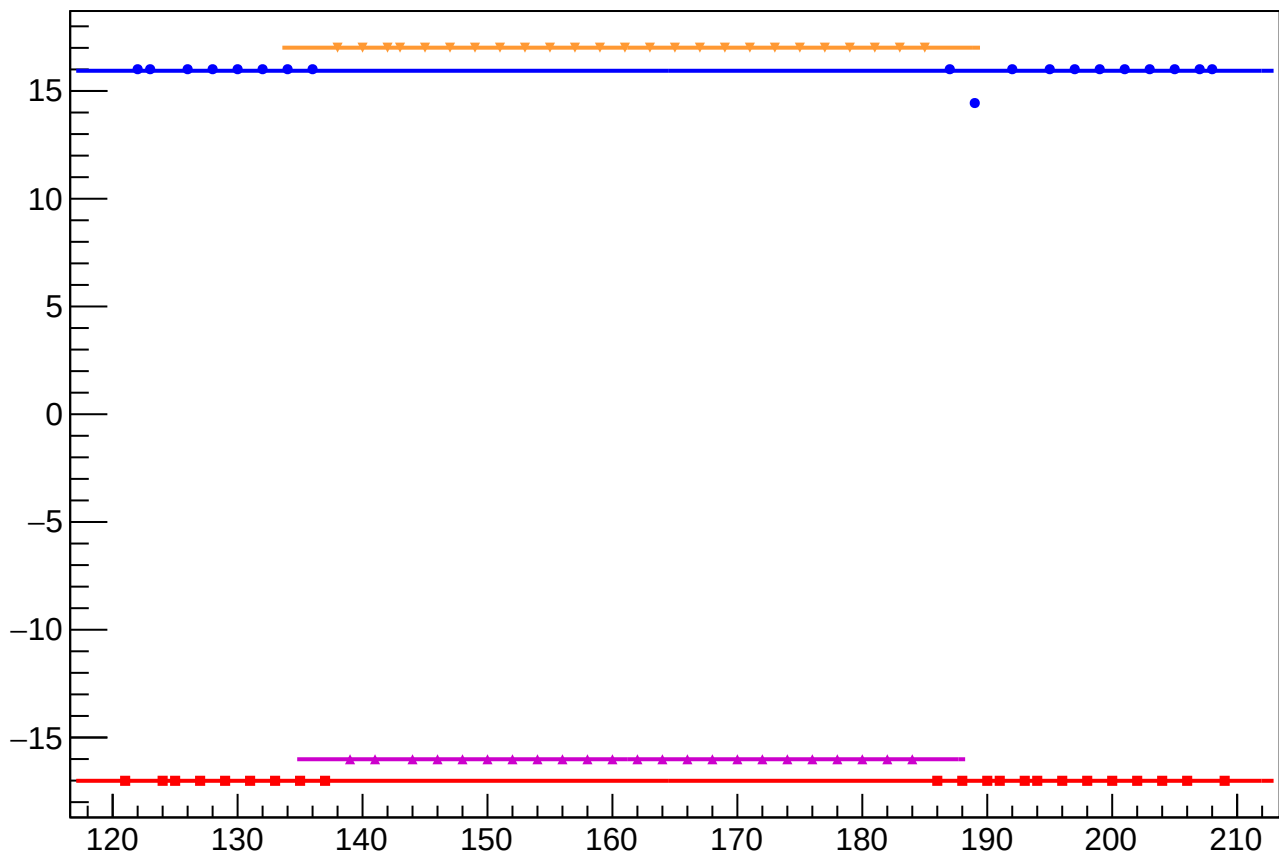
χ^2/NDF : 53379915043189

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



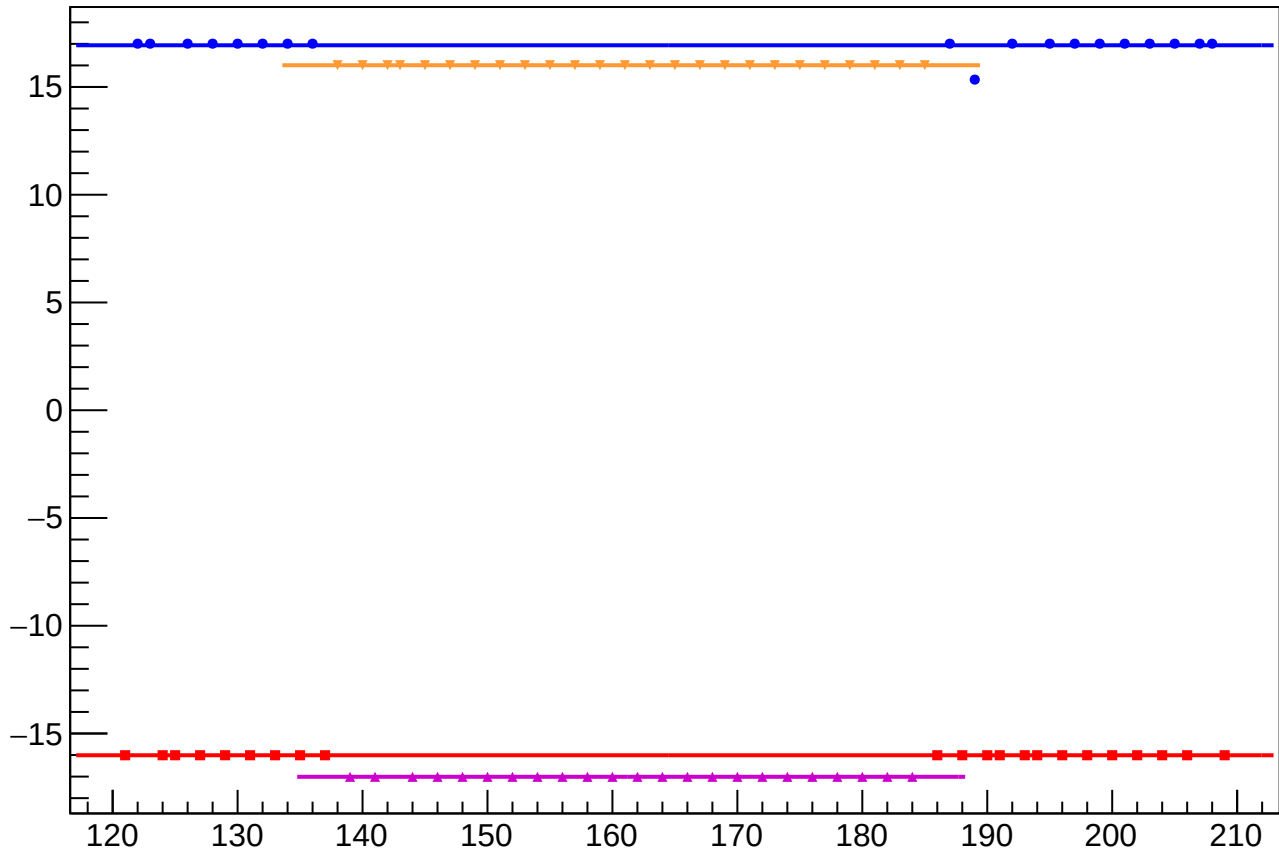
Left: 0.000 +/- 0.000 χ^2/NDF : 326809514411447718
 Right: -0.000 +/- 0.000 χ^2/NDF : 2065054921851648
 In: -0.002 +/- 0.000 χ^2/NDF : 245184501662690302
 Out: 0.002 +/- 0.000 χ^2/NDF : 261728734025558421
 All: 0.000 +/- 0.000 χ^2/NDF : 53379915043189

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



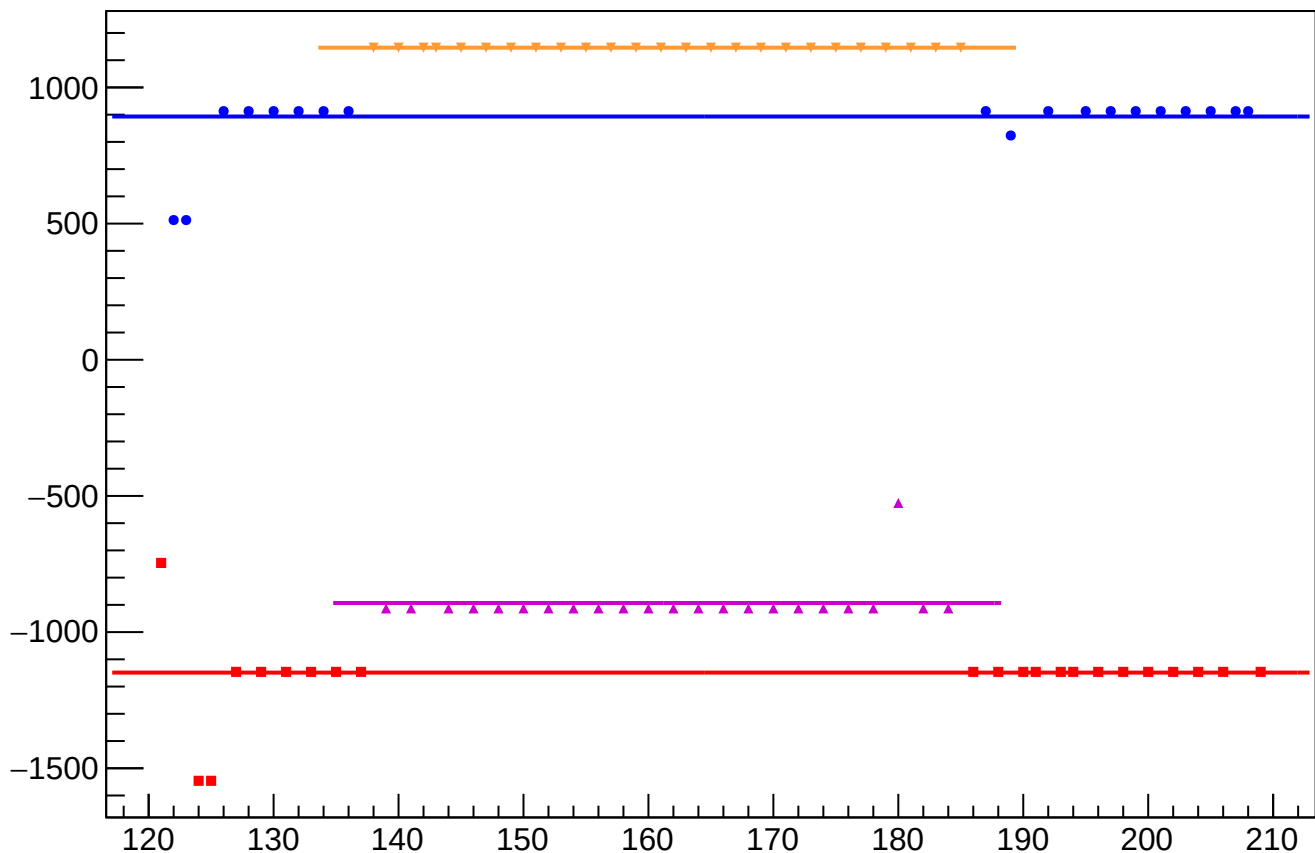
Right In: 15.938 $\pm$ 0.000 χ^2 /NDF: 119895360382147696561057804845056.0/18
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 15781426375548739914825728.0/21
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: 0.096 $\pm$ 0.000 χ^2 /NDF: 15767641845593

IGL1I00OD16_16_mean vs Slug, Sign Corrected



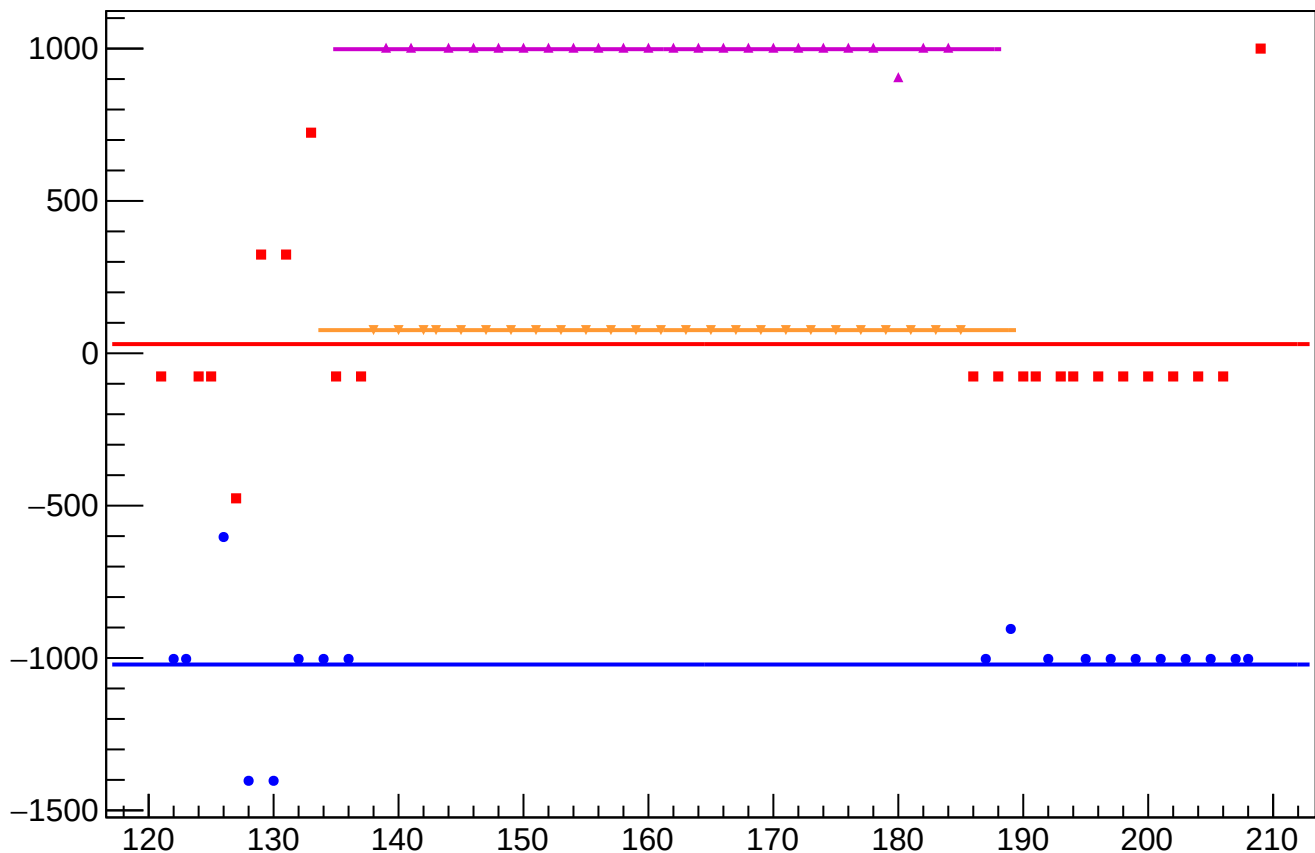
Right In: 16.935+/-0.000	χ^2/NDF : 135488894634439819872184213438464.0/18	Left: 0.042+/-0.000	χ^2/NDF : 99431233770062905
Left Out: 16.009+/-0.000	χ^2/NDF : 89740.8/24	Right: -0.081+/-0.000	χ^2/NDF : 6403211768002338
Right Out: -16.009+/-0.000	χ^2/NDF : 247348.9/21	In: -3.679+/-0.000	χ^2/NDF : 799225018525802169
Left In: -17.009+/-0.000	χ^2/NDF : 115033472633445654986752.0/22	Out: 3.433+/-0.000	χ^2/NDF : 759466836096970412
		All: -0.006+/-0.000	χ^2/NDF : 1634655452150

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 893.235+/-0.000 χ^2/NDF : 7162803620615259975947230001085022208.0/18
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1148.632+/-0.000 χ^2/NDF : 13752275558606167963482354675391397888.0/21
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 31.266+/-0.000 χ^2/NDF : 6502007401297

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1021.365+/-0.000

χ^2/NDF : 23307181010837152201373985787760082944.0/18

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: 30.136+/-0.000

χ^2/NDF : 120126401879479126413474545560476188672.0/21

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

All: 135.289+/-0.000 χ^2/NDF : 304021973450