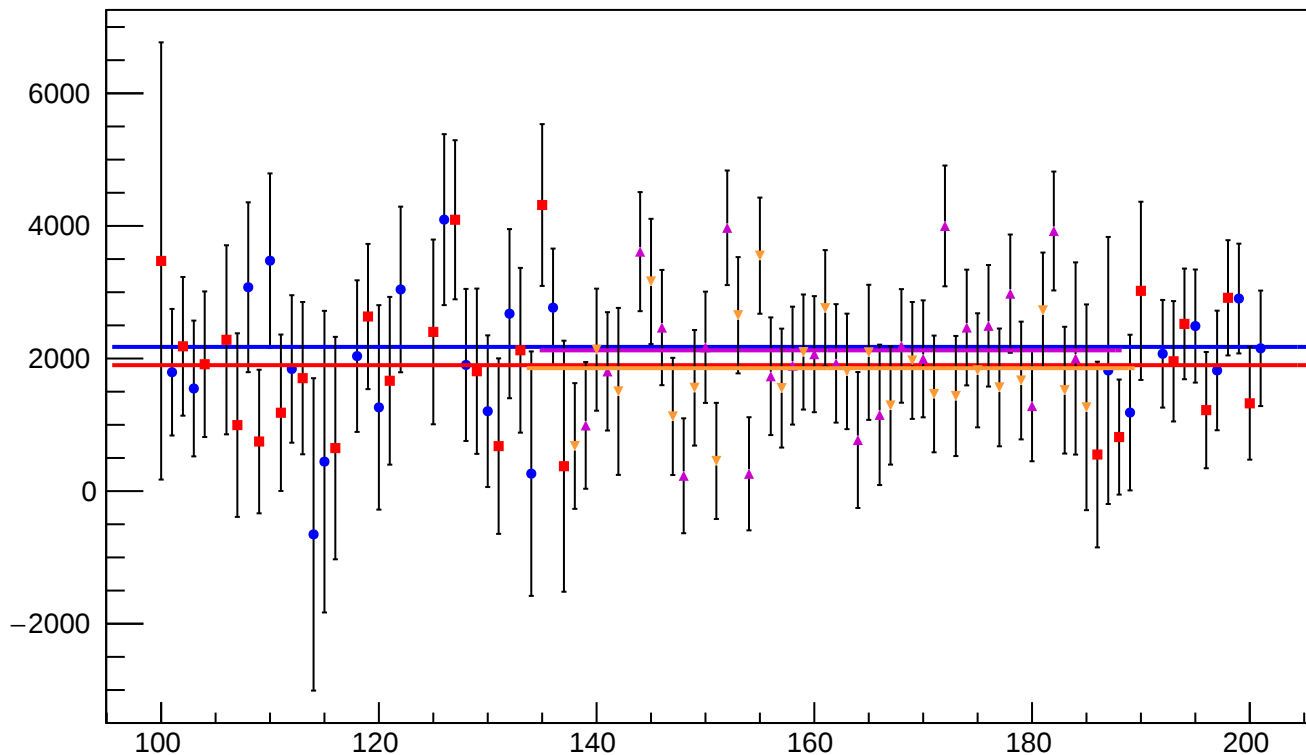


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2175.341+/-233.063

Left Out: 1854.267+/-187.405

Right Out: 1899.786+/-223.238

Left In: 2123.138+/-188.684

χ^2/NDF : 11.4/22

χ^2/NDF : 15.1/23

χ^2/NDF : 18.5/25

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2031.633+/-161.215

In: 2143.807+/-146.649

Out: 1873.084+/-143.534

All: 2005.539+/-102.577

χ^2/NDF : 48.1/46

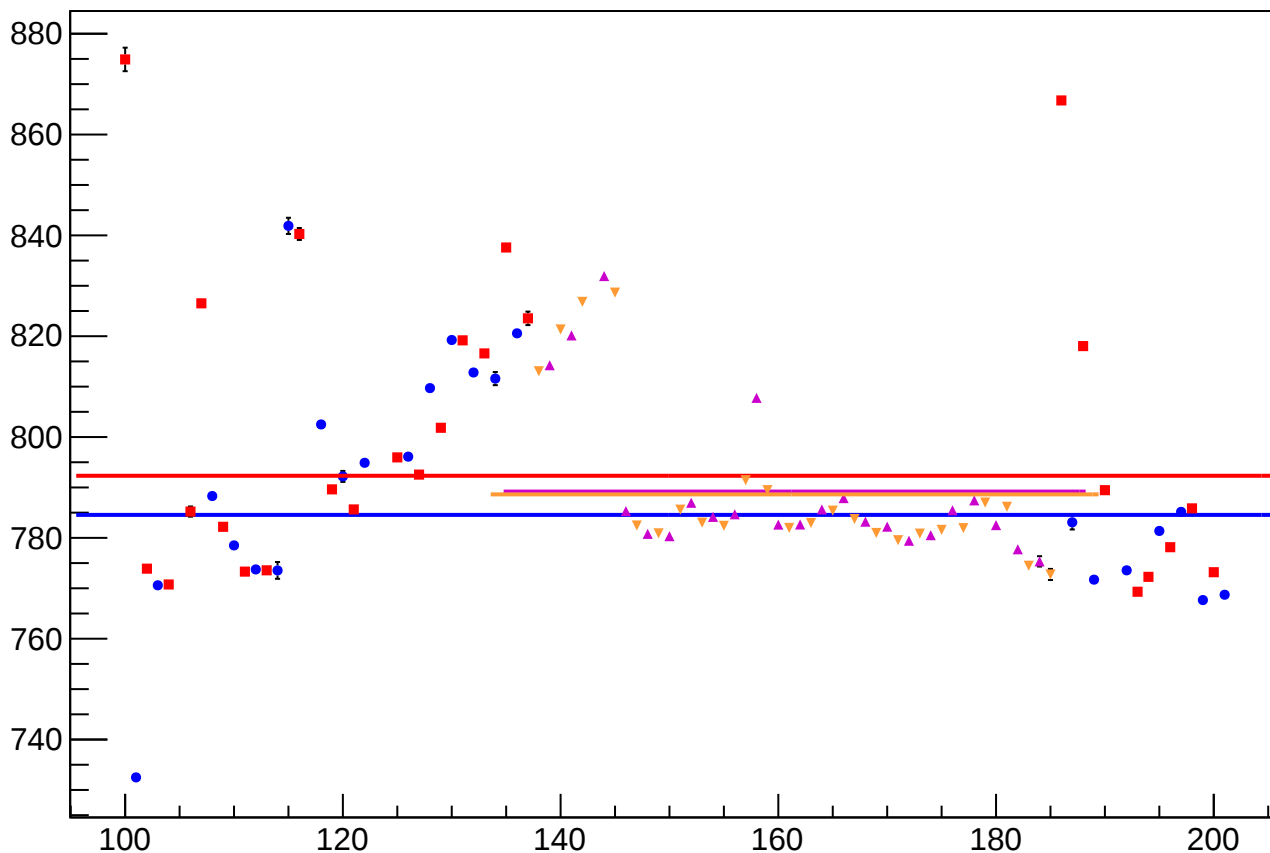
χ^2/NDF : 30.6/48

χ^2/NDF : 43.5/45

χ^2/NDF : 33.6/49

χ^2/NDF : 78.8/95

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 784.559 $\pm$ 0.165 χ^2/NDF : 18333.3/22

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

Right Out: 792.320 $\pm$ 0.158 χ^2/NDF : 23367.2/25

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

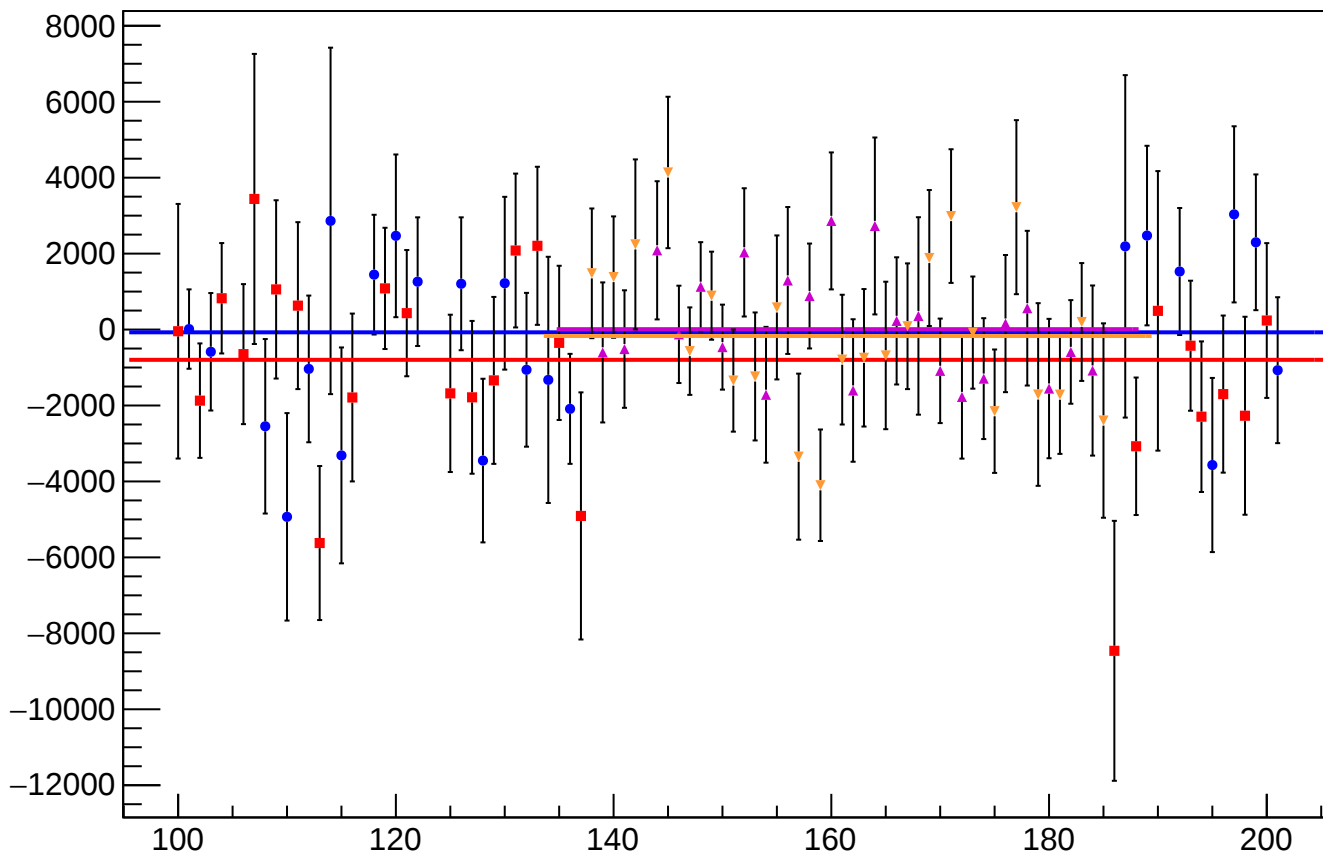
Right: 788.607 $\pm$ 0.114 χ^2/NDF : 42857.0/48

In: 787.353 $\pm$ 0.104 χ^2/NDF : 30152.4/45

Out: 790.155 $\pm$ 0.101 χ^2/NDF : 35166.0/49

All: 788.784 $\pm$ 0.073 χ^2/NDF : 65691.2/95

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -72.896 ± 402.871 χ^2/NDF : 23.5/22

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

Right Out: -797.102 ± 403.727 χ^2/NDF : 26.2/25

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

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

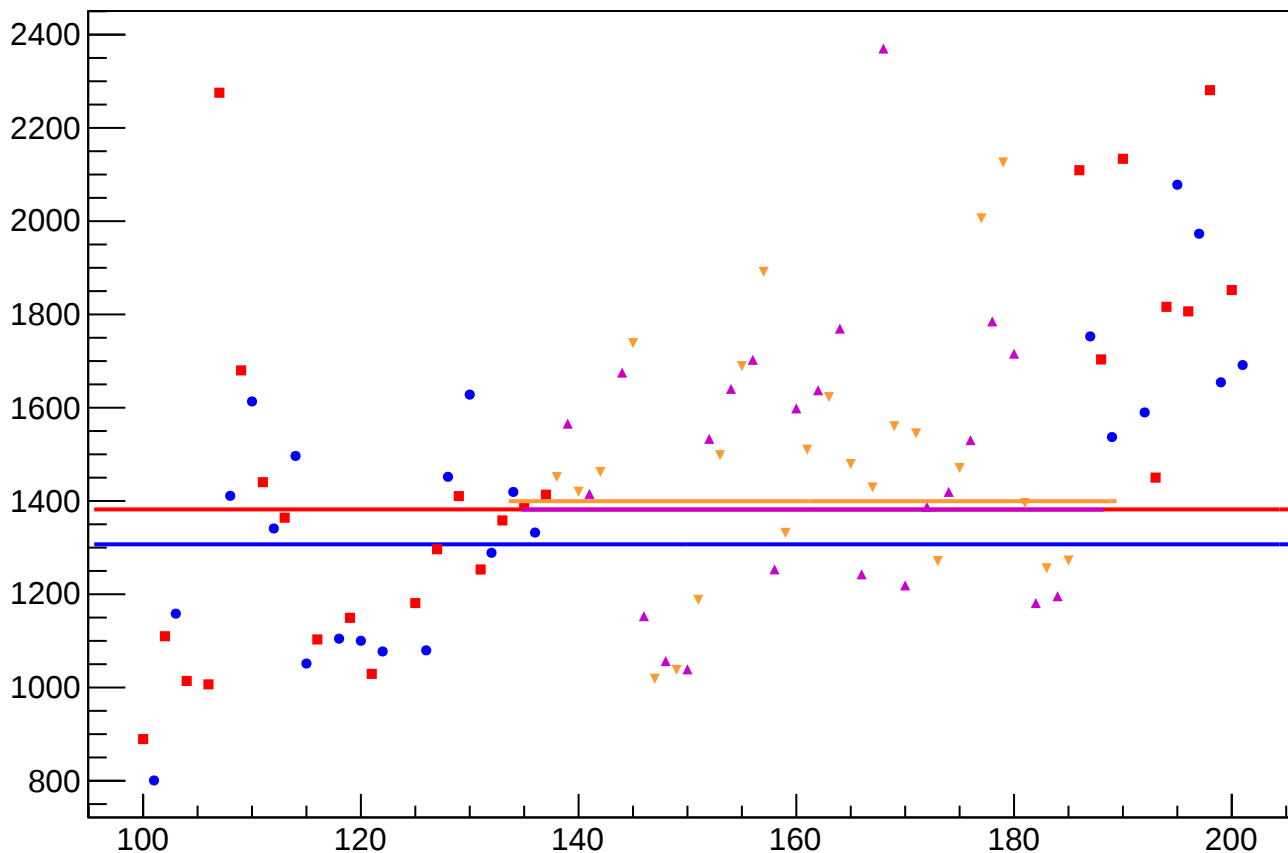
Right: -434.230 ± 285.175 χ^2/NDF : 51.3/48

In: -24.168 ± 258.853 χ^2/NDF : 37.7/45

Out: -430.075 ± 260.238 χ^2/NDF : 57.6/49

All: -226.038 ± 183.525 χ^2/NDF : 96.6/95

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1307.053+/-0.285 χ^2/NDF : 1353716.7/22

Left Out: 1399.587+/-0.241 χ^2/NDF : 1119125.1/23

Right Out: 1381.874+/-0.285 χ^2/NDF : 1422693.0/25

Left In: 1381.359+/-0.239 χ^2/NDF : 1276488.2/22

Left: 1390.403+/-0.170 χ^2/NDF : 2398502.8/46

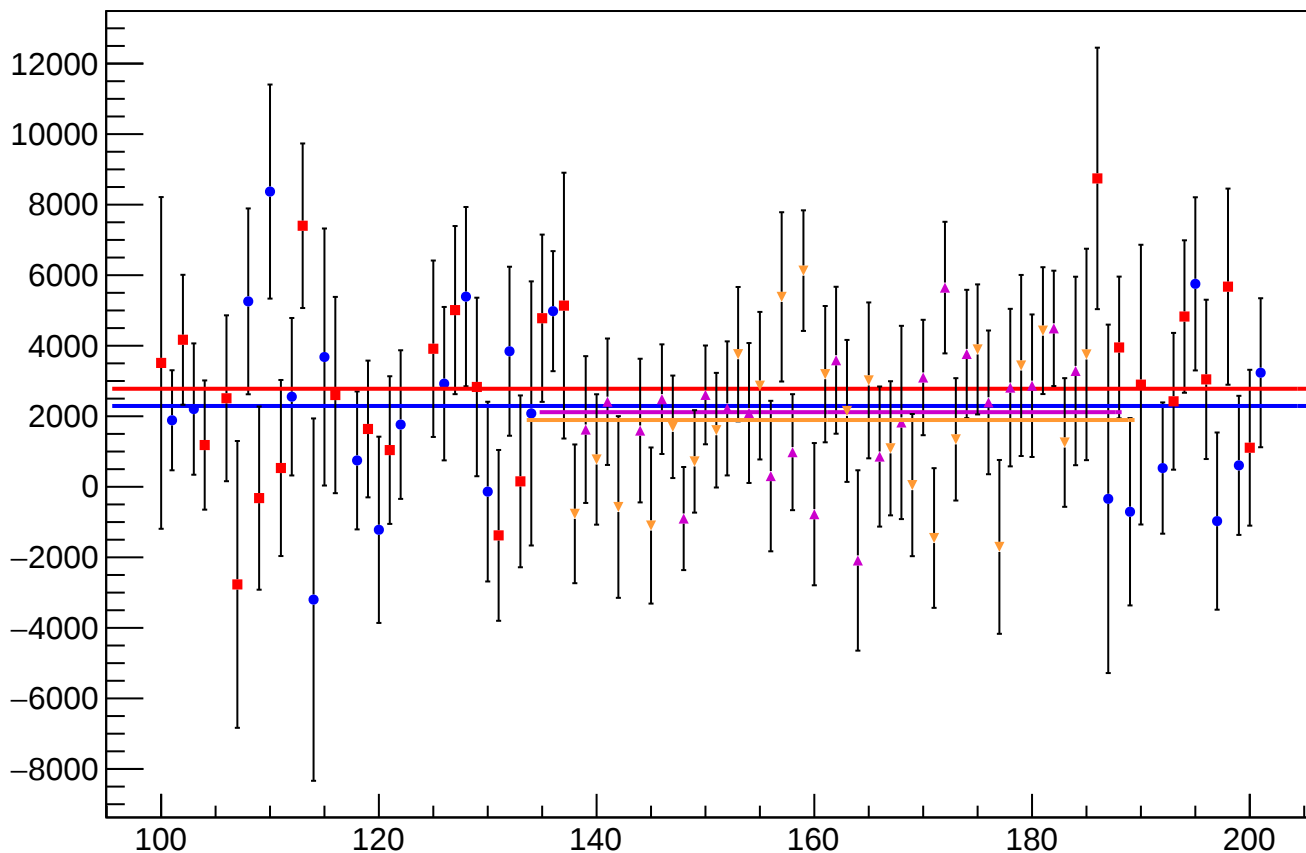
Right: 1344.384+/-0.202 χ^2/NDF : 2810828.7/48

In: 1350.683+/-0.183 χ^2/NDF : 2670153.6/45

Out: 1392.227+/-0.184 χ^2/NDF : 2544068.2/49

All: 1371.344+/-0.130 χ^2/NDF : 5239842.9/95

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2291.881 $\pm$ 478.353 χ^2 /NDF: 21.6/22

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

Right Out: 2780.062 $\pm$ 473.051 χ^2 /NDF: 22.2/25

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

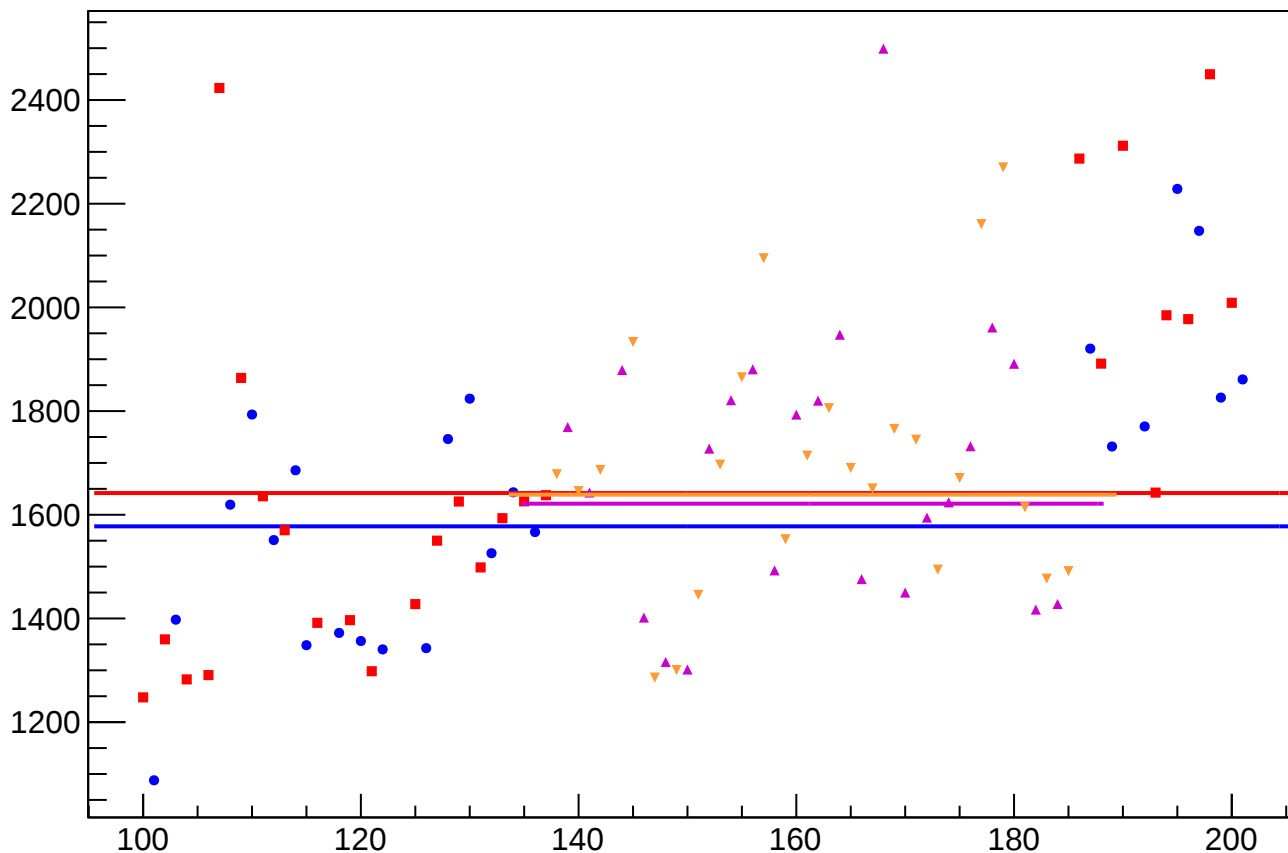
Right: 2538.691 $\pm$ 336.356 χ^2 /NDF: 44.4/48

In: 2186.943 $\pm$ 303.659 χ^2 /NDF:40.4/45

Out: 2257.552 $\pm$ 303.142 χ^2 /NDF:50.3/49

All: 2222.308 $\pm$ 214.536 χ^2 /NDF: 90.7/95

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1577.685 $\pm$ 0.338 χ^2 /NDF: 739868.9/22

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

Right Out: 1641.932 $\pm$ 0.334 χ^2 /NDF: 867625.1/25

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

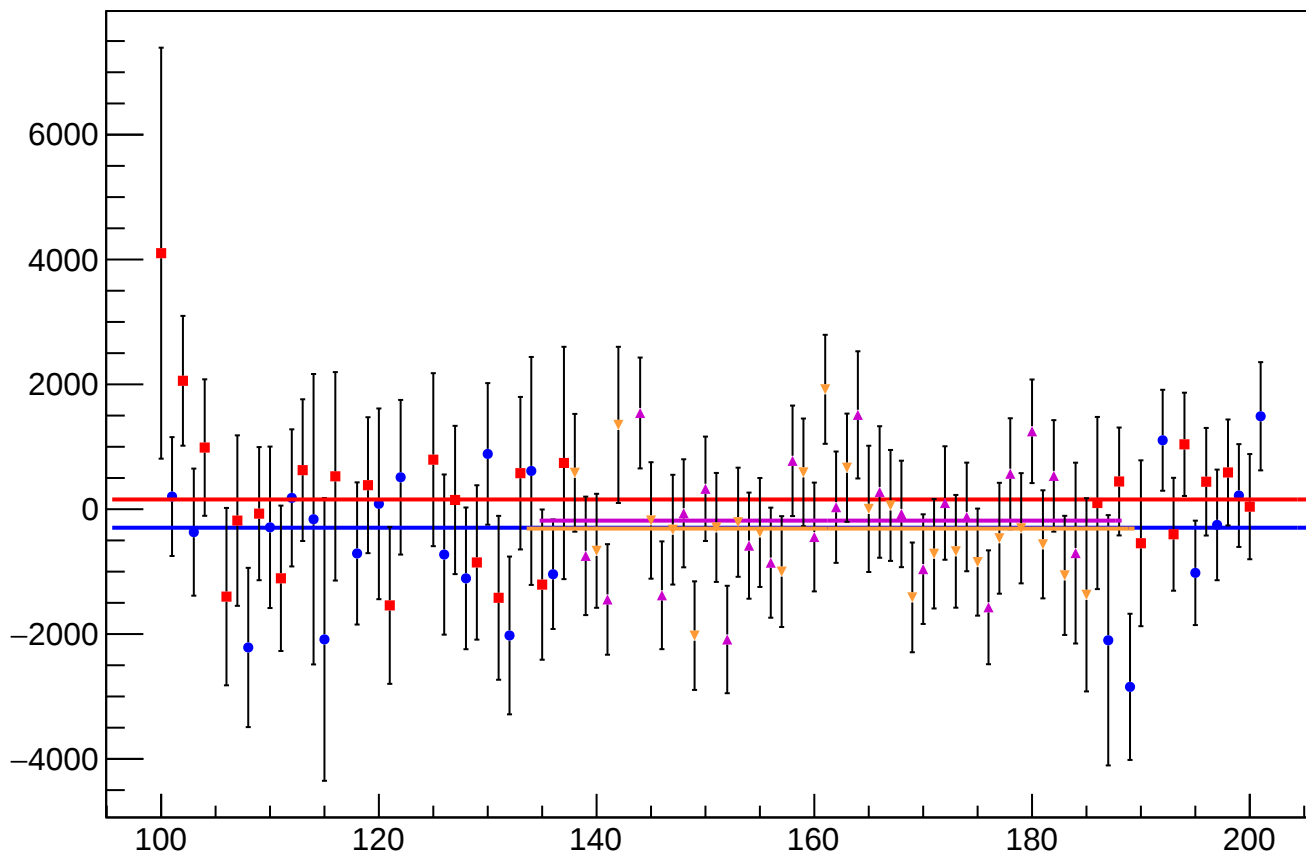
Right: 1610.167 $\pm$ 0.238 χ^2 /NDF: 1625734.2/48

In: 1603.794 $\pm$ 0.215 χ^2 /NDF: 1525158.9/45

Out: 1640.090 $\pm$ 0.214 χ^2 /NDF: 1539583.2/49

All: 1621.973 $\pm$ 0.152 χ^2 /NDF: 3079053.5/99

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -296.501 ± 230.994 $\chi^2/\text{NDF}: 22.5/22$

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

Right Out: 156.082 ± 220.943 $\chi^2/\text{NDF}: 16.0/25$

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

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

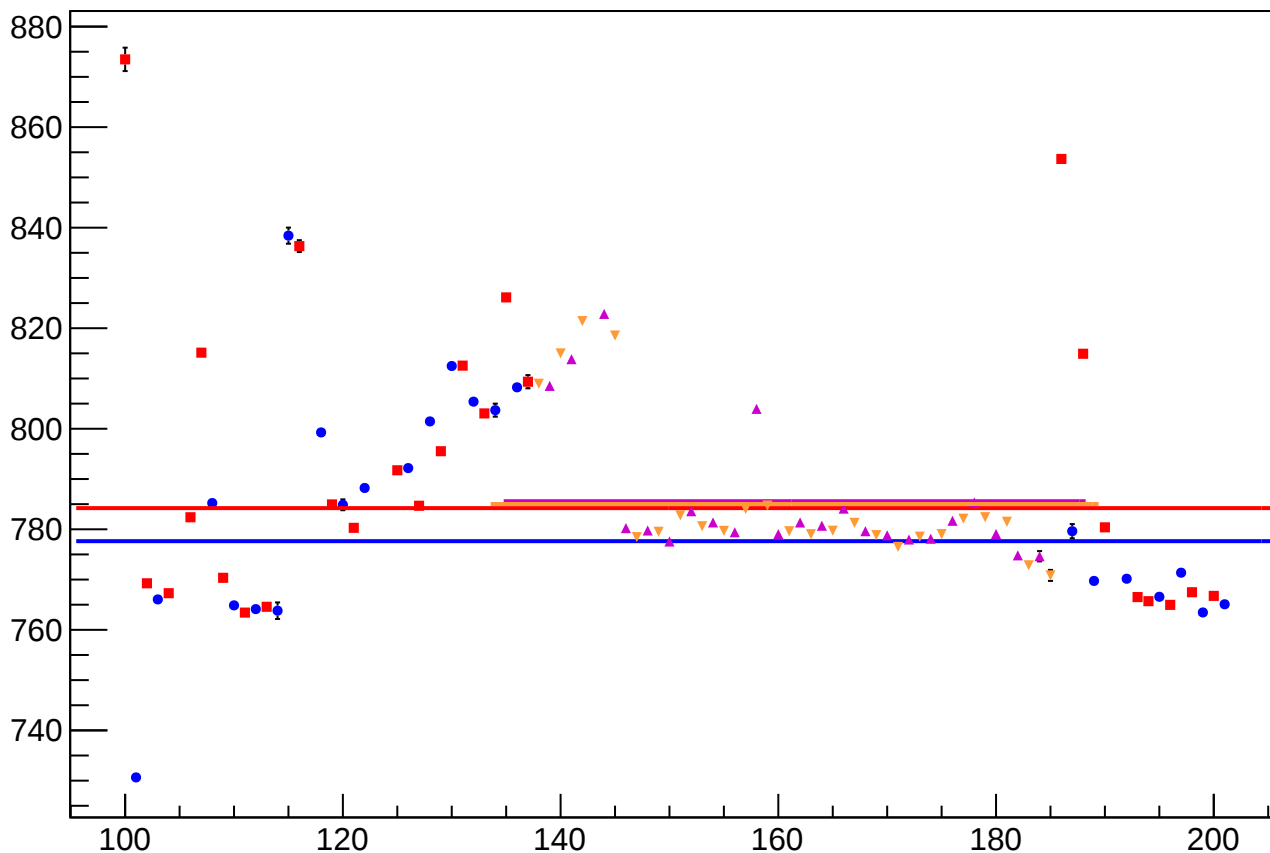
Right: -60.149 ± 159.665 $\chi^2/\text{NDF}: 40.5/48$

In: -228.109 ± 145.726 $\chi^2/\text{NDF}: 48.7/45$

Out: -116.362 ± 142.532 $\chi^2/\text{NDF}: 38.7/49$

All: -170.997 ± 101.896 $\chi^2/\text{NDF}: 87.7/95$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 777.639 $\pm$ 0.163 χ^2 /NDF: 16678.2/22

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

Right Out: 784.212 $\pm$ 0.156 χ^2 /NDF: 23376.6/25

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

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

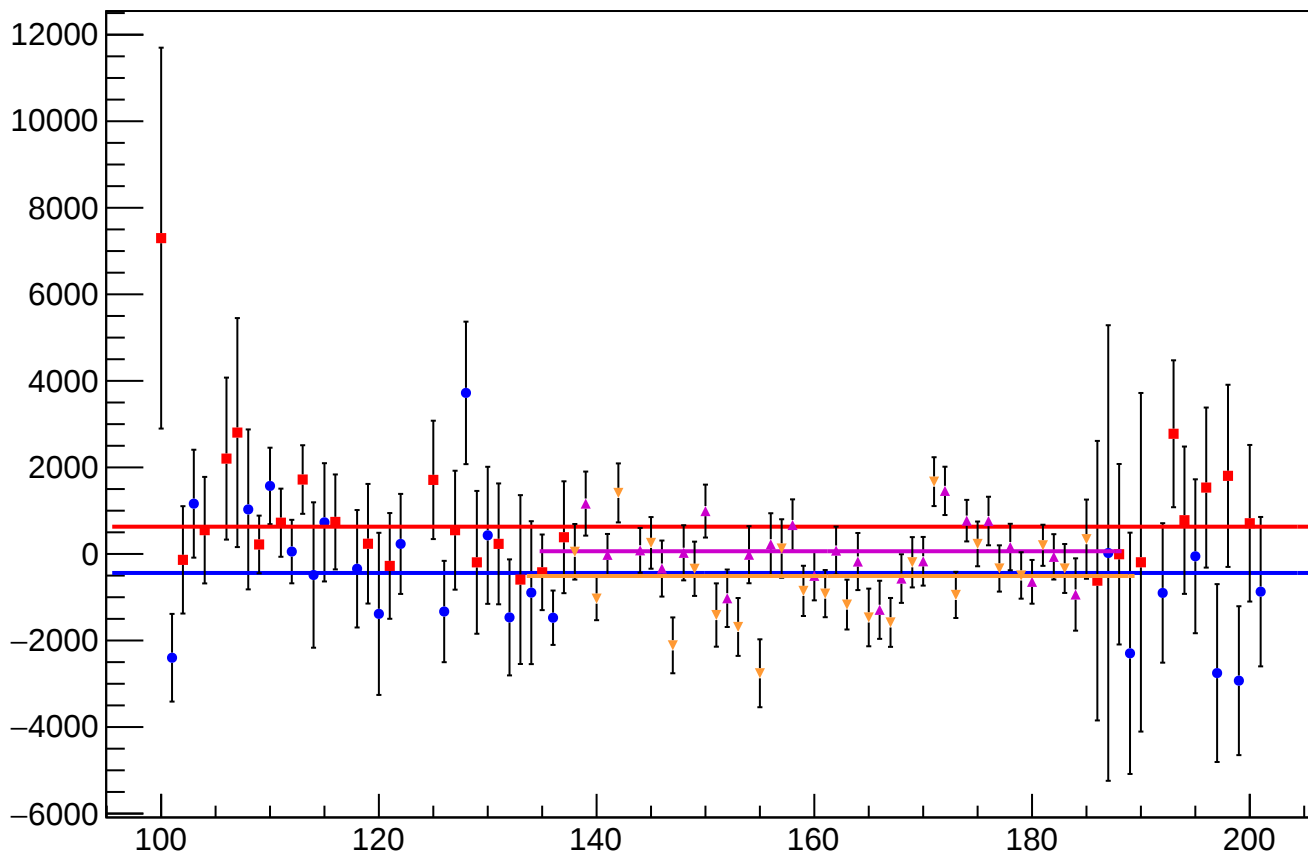
Right: 781.072 $\pm$ 0.113 χ^2 /NDF: 40900.7/48

In: 782.427 $\pm$ 0.103 χ^2 /NDF: 27479.3/45

Out: 784.690 $\pm$ 0.101 χ^2 /NDF: 32760.5/49

All: 783.583 $\pm$ 0.072 χ^2 /NDF: 60486.5/95

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -439.074 $\pm$ 264.950 χ^2/NDF : 27.6/22

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

Right Out: 630.201 $\pm$ 255.717 χ^2/NDF : 12.3/25

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

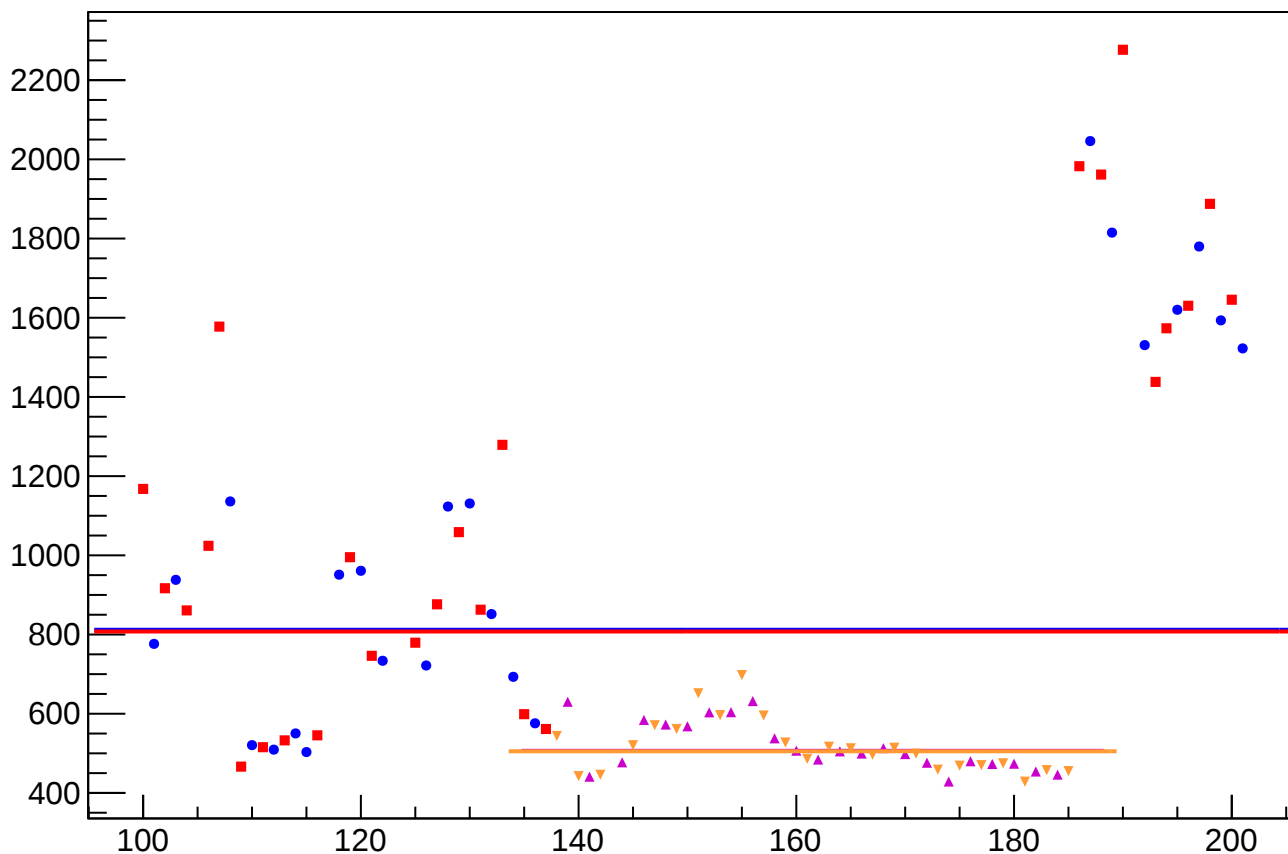
Right: 114.519 $\pm$ 183.997 χ^2/NDF : 48.3/48

In: -25.077 $\pm$ 110.850 χ^2/NDF :59.4/45

Out: -300.314 $\pm$ 109.514 χ^2/NDF :89.0/49

All: -164.364 $\pm$ 77.906 χ^2/NDF : 151.5/95

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 812.063+/-0.187 χ^2/NDF : 3669410.0/22

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

Right Out: 807.653+/-0.181 χ^2/NDF : 4974118.1/25

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

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

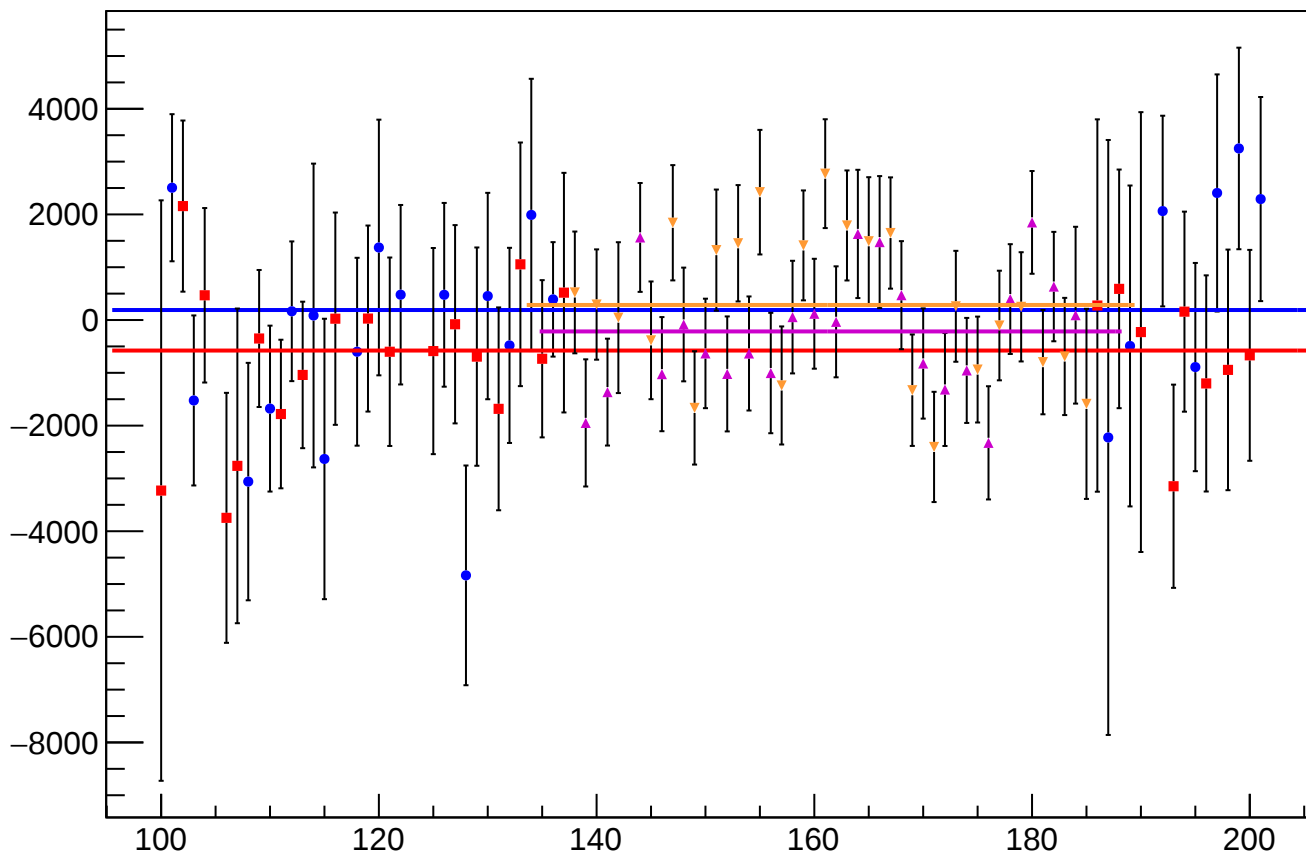
Right: 809.780+/-0.130 χ^2/NDF : 8643815.0/48

In: 559.888+/-0.078 χ^2/NDF : 6301923.0/45

Out: 560.689+/-0.077 χ^2/NDF : 7744117.2/49

All: 560.293+/-0.055 χ^2/NDF : 14046093.0/99

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 189.408 ± 385.401 $\chi^2/\text{NDF}: 21.9/22$

Left Out: 285.144 ± 224.378 $\chi^2/\text{NDF}: 38.3/23$

Right Out: -578.037 ± 377.358 $\chi^2/\text{NDF}: 10.4/25$

Left In: -216.121 ± 225.600 $\chi^2/\text{NDF}: 24.4/22$

Left: 35.874 ± 159.089 $\chi^2/\text{NDF}: 65.2/46$

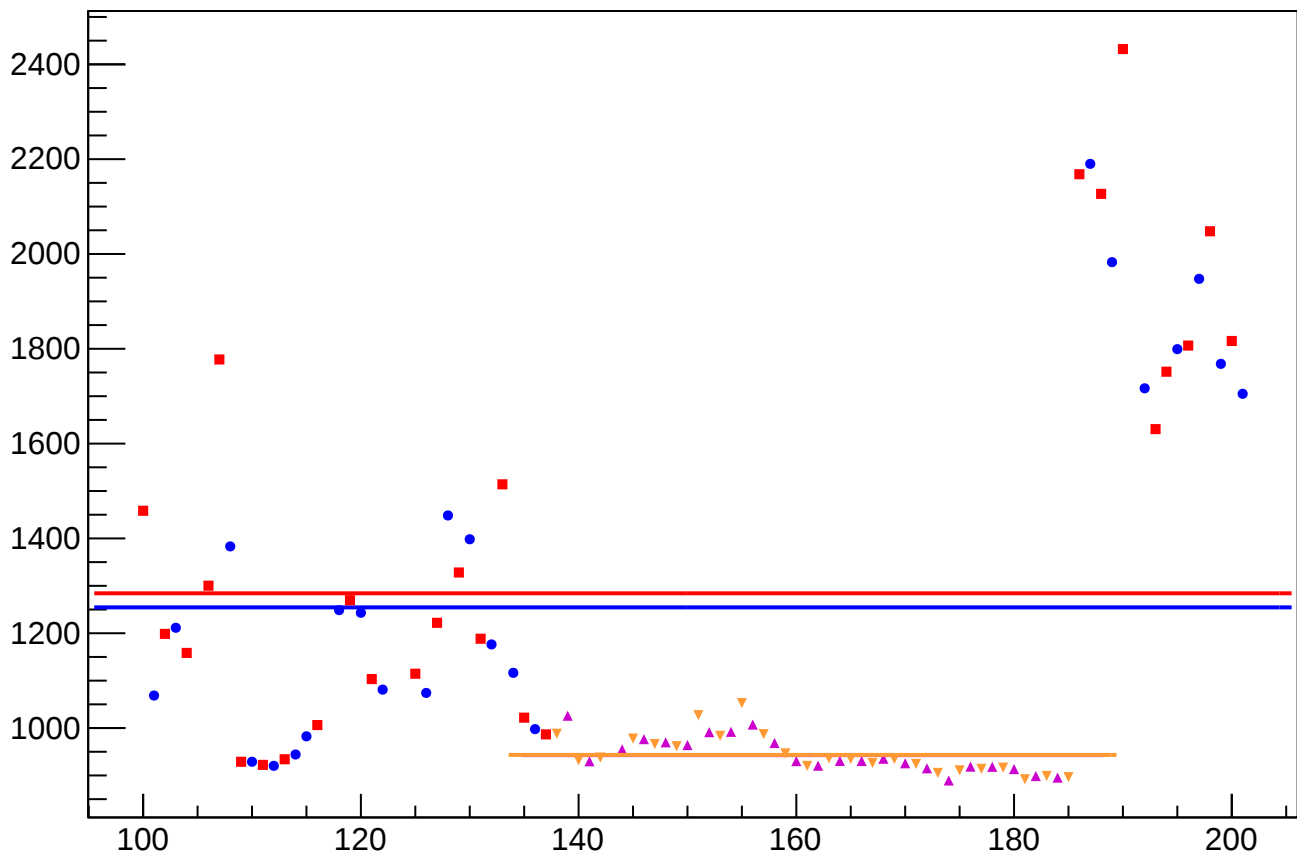
Right: -202.405 ± 269.631 $\chi^2/\text{NDF}: 34.3/48$

In: -112.628 ± 194.696 $\chi^2/\text{NDF}: 47.1/45$

Out: 59.680 ± 192.860 $\chi^2/\text{NDF}: 52.6/49$

All: -25.658 ± 137.017 $\chi^2/\text{NDF}: 100.1/95$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1254.551+/-0.273 χ^2/NDF : 1391239.7/22

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

Right Out: 1284.228+/-0.267 χ^2/NDF : 1921579.5/25

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

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

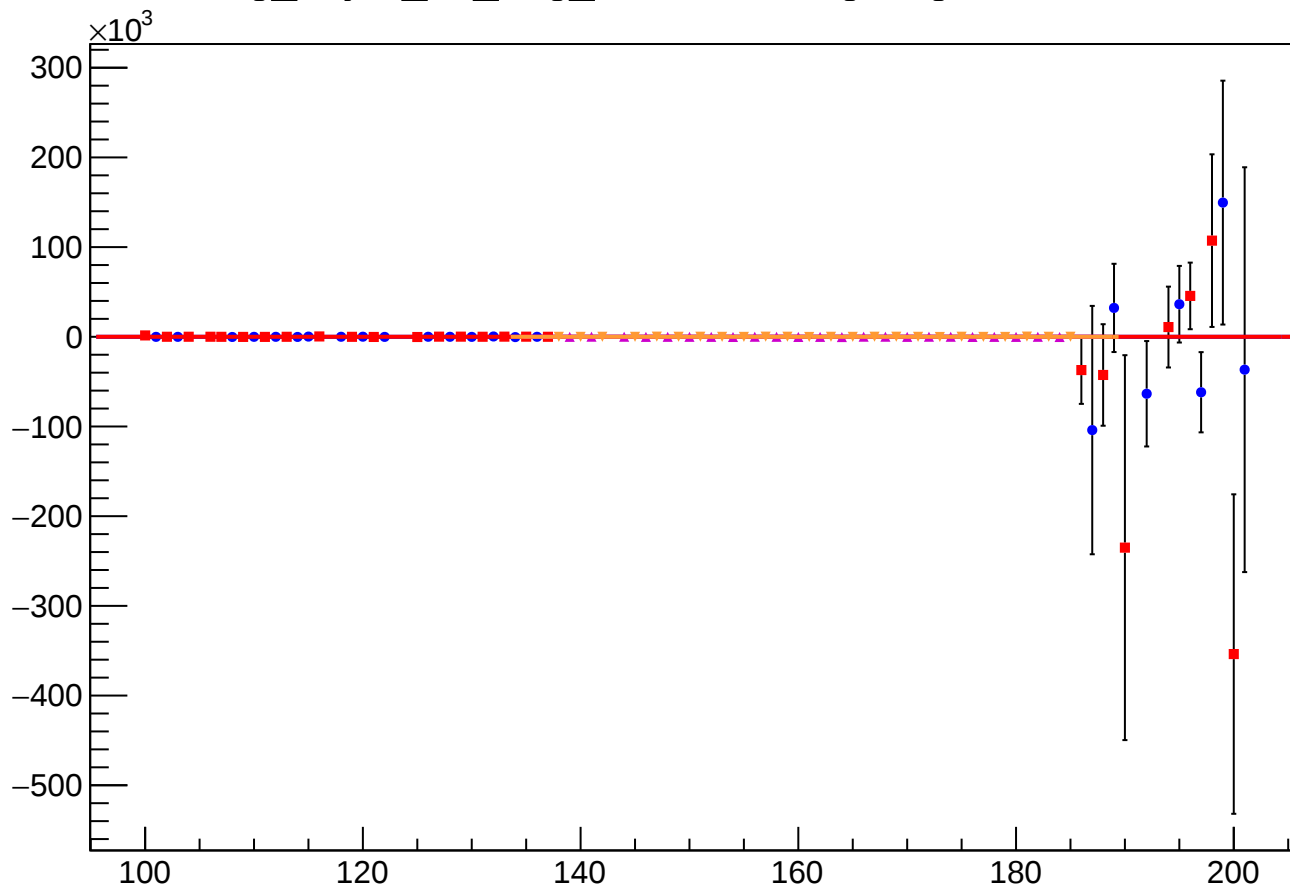
Right: 1269.702+/-0.191 χ^2/NDF : 3318873.6/48

In: 1022.455+/-0.138 χ^2/NDF : 2413520.2/45

Out: 1032.389+/-0.136 χ^2/NDF : 3187657.5/49

All: 1027.469+/-0.097 χ^2/NDF : 5603805.6/95

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.564 $\pm$ 30.032 χ^2 /NDF: 22.0/22

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

Right Out: 31.749 $\pm$ 30.492 χ^2 /NDF: 26.3/24

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

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

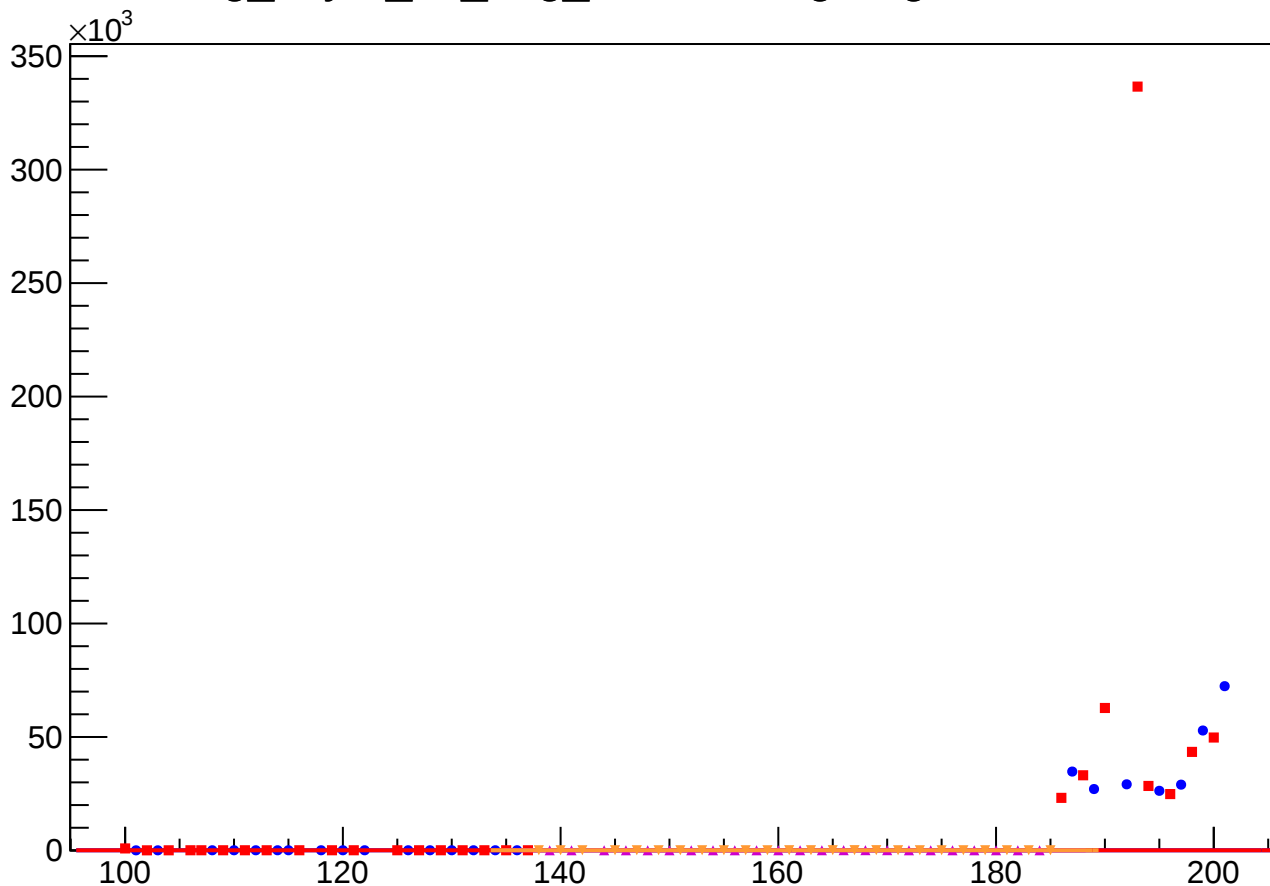
Right: 7.733 $\pm$ 21.397 χ^2 /NDF: 49.5/47

In: -20.422 $\pm$ 17.527 χ^2 /NDF:44.5/45

Out: 13.003 $\pm$ 17.553 χ^2 /NDF:49.3/48

All: -3.735 $\pm$ 12.403 χ^2 /NDF: 95.6/94

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.103 $\pm$ 0.021 χ^2 /NDF: 3830319.3/22

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

Right Out: 79.433 $\pm$ 0.022 χ^2 /NDF: 4348386.8/25

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

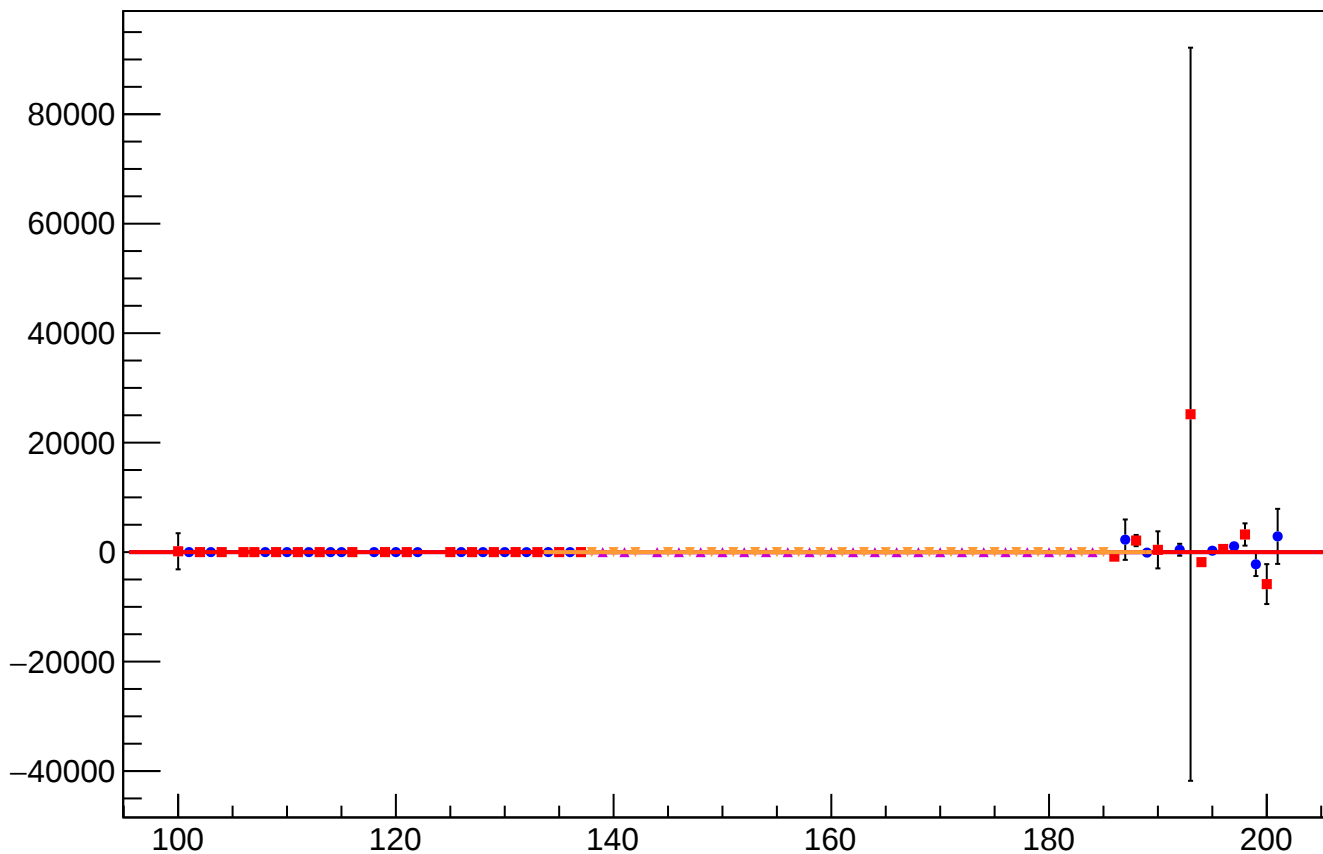
Right: 77.743 $\pm$ 0.015 χ^2 /NDF: 8190813.9/48

In: 85.000 $\pm$ 0.012 χ^2 /NDF: 4605000.1/45

Out: 86.292 $\pm$ 0.012 χ^2 /NDF: 4966031.5/49

All: 85.645 $\pm$ 0.009 χ^2 /NDF: 9576459.7/95

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289 $\pm$ 0.502 χ^2/NDF : 24.3/22

Left Out: 0.126 $\pm$ 0.377 χ^2/NDF : 21.3/23

Right Out: 0.038 $\pm$ 0.525 χ^2/NDF : 25.4/25

Left In: -0.519 $\pm$ 0.387 χ^2/NDF : 26.3/22

Left: -0.188 $\pm$ 0.270 χ^2/NDF : 49.1/46

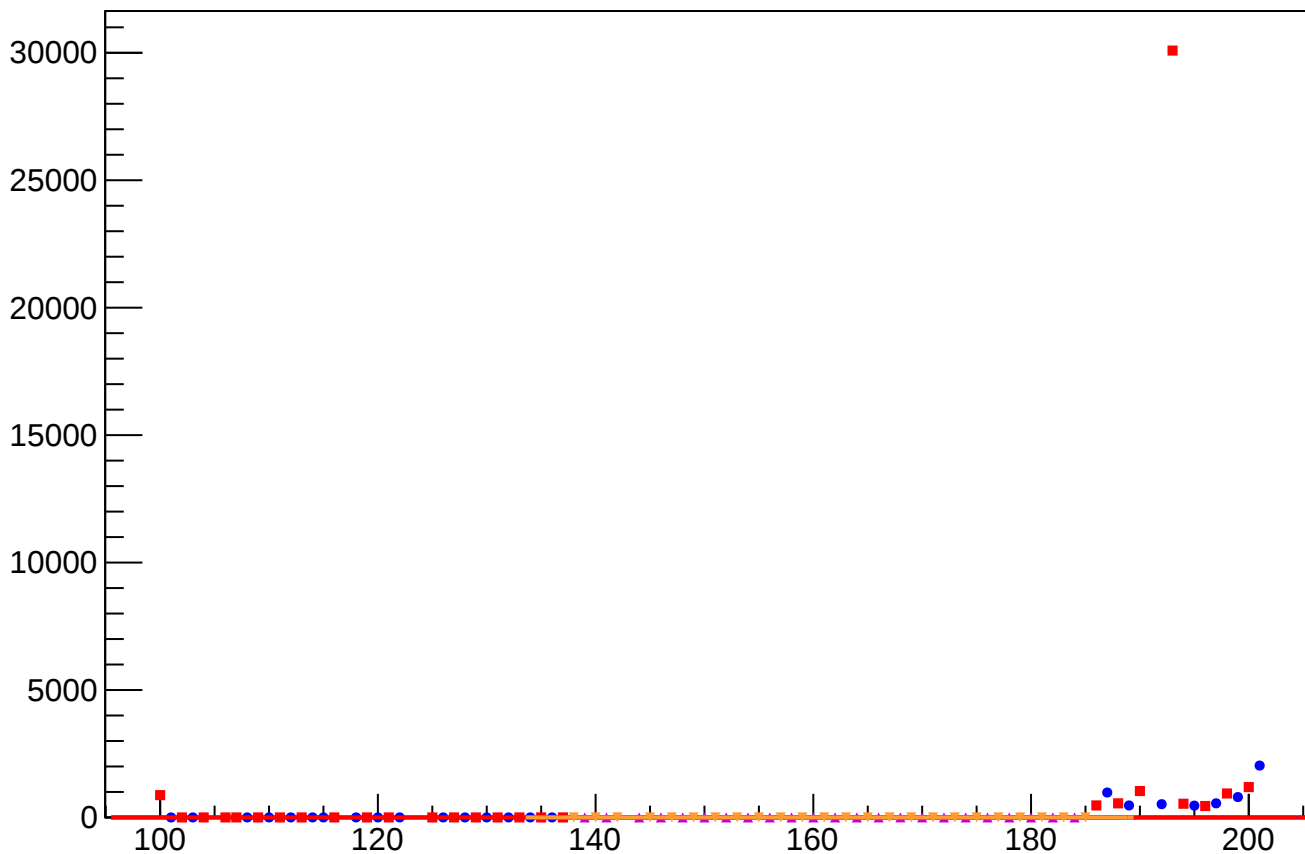
Right: -0.133 $\pm$ 0.363 χ^2/NDF : 49.9/48

In: -0.433 $\pm$ 0.306 χ^2/NDF : 50.8/45

Out: 0.096 $\pm$ 0.306 χ^2/NDF : 46.7/49

All: -0.168 $\pm$ 0.217 χ^2/NDF : 99.0/95

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 3611770.1/22

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

Right Out: 1.260+/-0.000 χ^2/NDF : 4504677.2/25

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

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

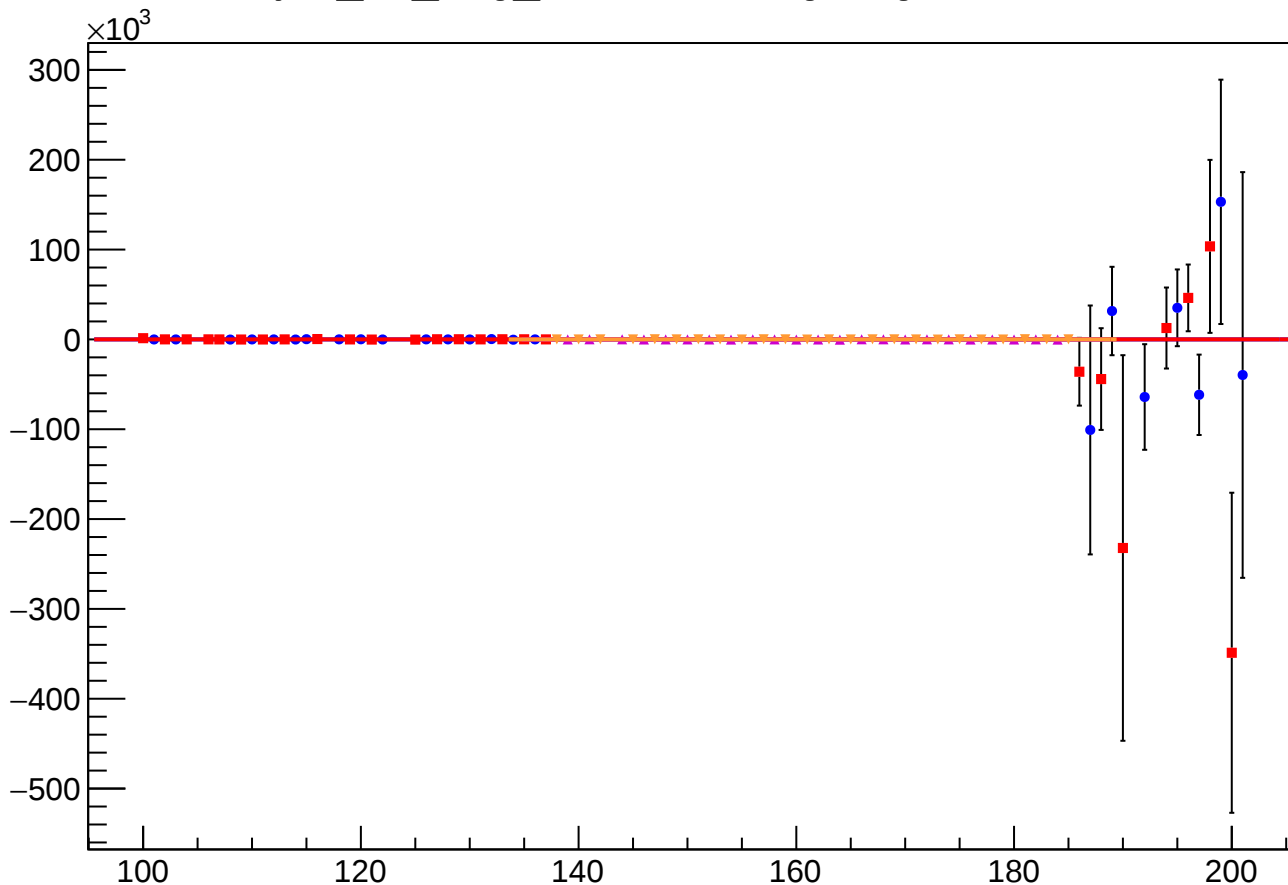
Right: 1.204+/-0.000 χ^2/NDF : 8159986.5/48

In: 1.341+/-0.000 χ^2/NDF : 5057356.5/45

Out: 1.358+/-0.000 χ^2/NDF : 5597755.5/49

All: 1.350+/-0.000 χ^2/NDF : 10658105.8/95

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.501 ± 30.040 χ^2/NDF : 22.2/22

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

Right Out: 32.029 ± 30.500 χ^2/NDF : 26.1/24

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

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

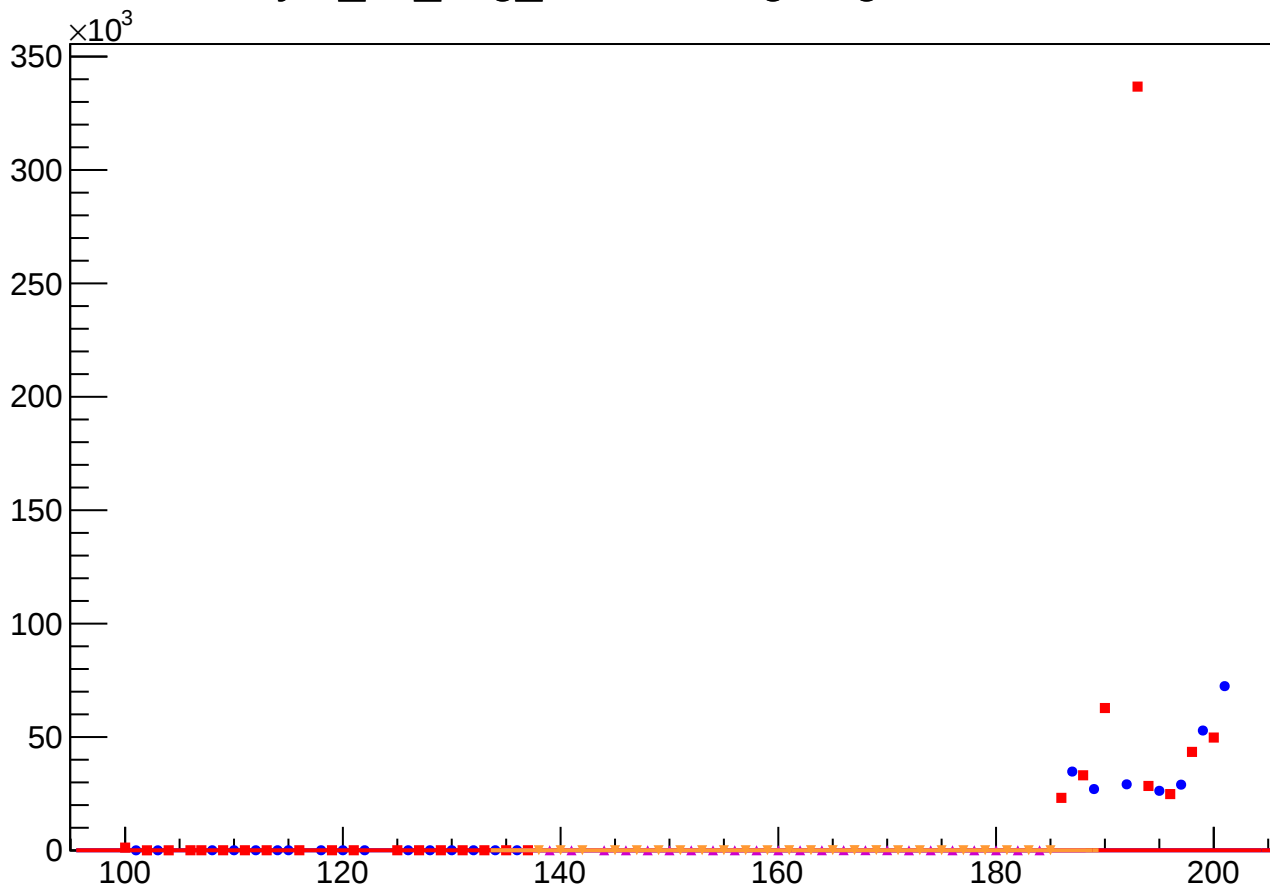
Right: 8.411 ± 21.402 χ^2/NDF : 49.5/47

In: -19.739 ± 17.532 χ^2/NDF : 44.6/45

Out: 12.953 ± 17.559 χ^2/NDF : 48.8/48

All: -3.418 ± 12.407 χ^2/NDF : 95.1/94

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.123+/-0.021 χ^2/NDF : 3830430.8/22

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

Right Out: 79.437+/-0.022 χ^2/NDF : 4354969.9/25

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

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

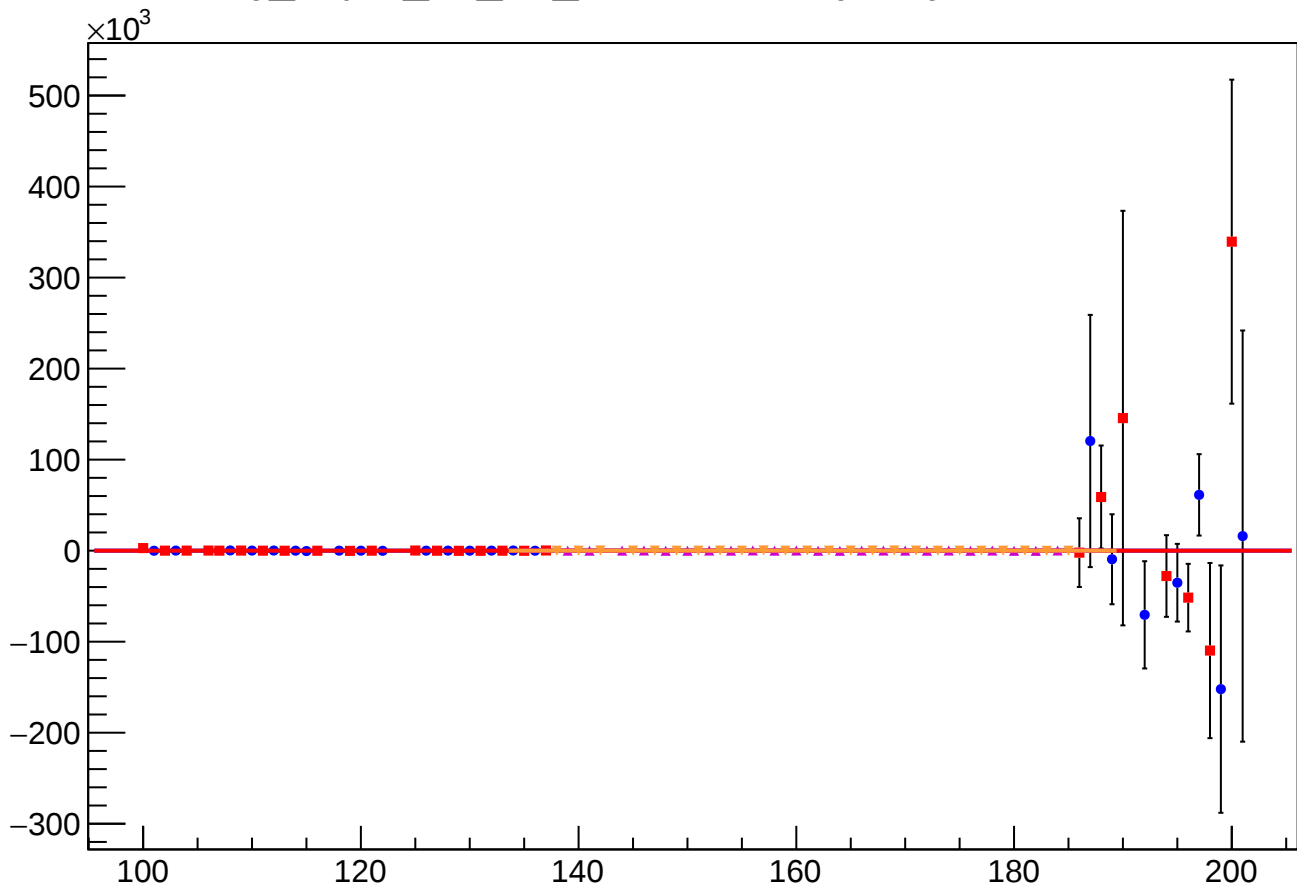
Right: 77.755+/-0.015 χ^2/NDF : 8197382.9/48

In: 85.024+/-0.012 χ^2/NDF :4606114.5/45

Out: 86.311+/-0.012 χ^2/NDF :4973959.2/49

All: 85.667+/-0.009 χ^2/NDF : 9585455.7/95

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.100 ± 30.012 $\chi^2/\text{NDF}: 20.1/22$

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

Right Out: -25.805 ± 30.473 $\chi^2/\text{NDF}: 21.5/24$

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

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

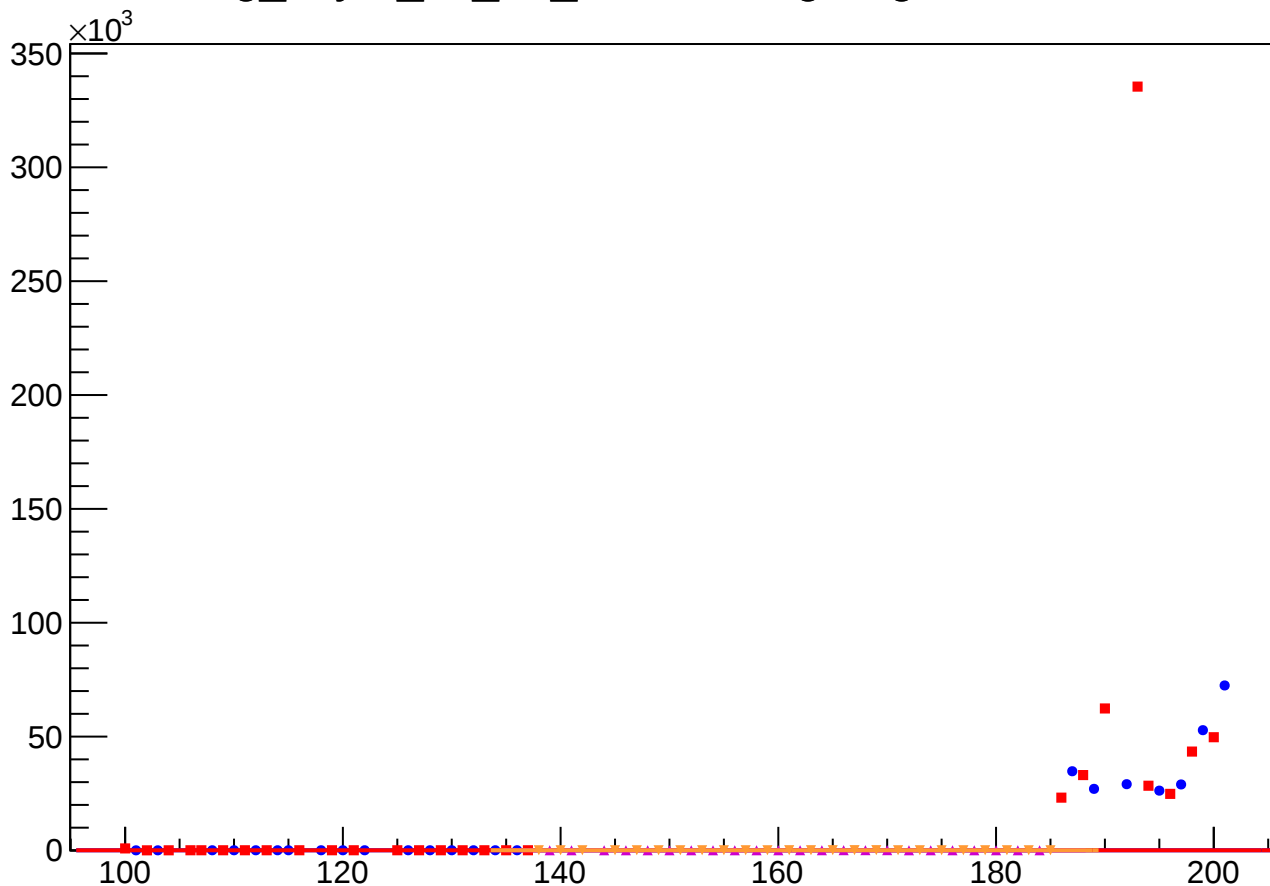
Right: -8.594 ± 21.383 $\chi^2/\text{NDF}: 42.2/47$

In: 31.375 ± 17.528 $\chi^2/\text{NDF}: 52.4/45$

Out: 1.645 ± 17.552 $\chi^2/\text{NDF}: 39.9/48$

All: 16.531 ± 12.403 $\chi^2/\text{NDF}: 93.8/94$

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.054 $\pm$ 0.021 χ^2 /NDF: 3829463.0/22

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

Right Out: 79.385 $\pm$ 0.022 χ^2 /NDF: 4347799.5/25

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

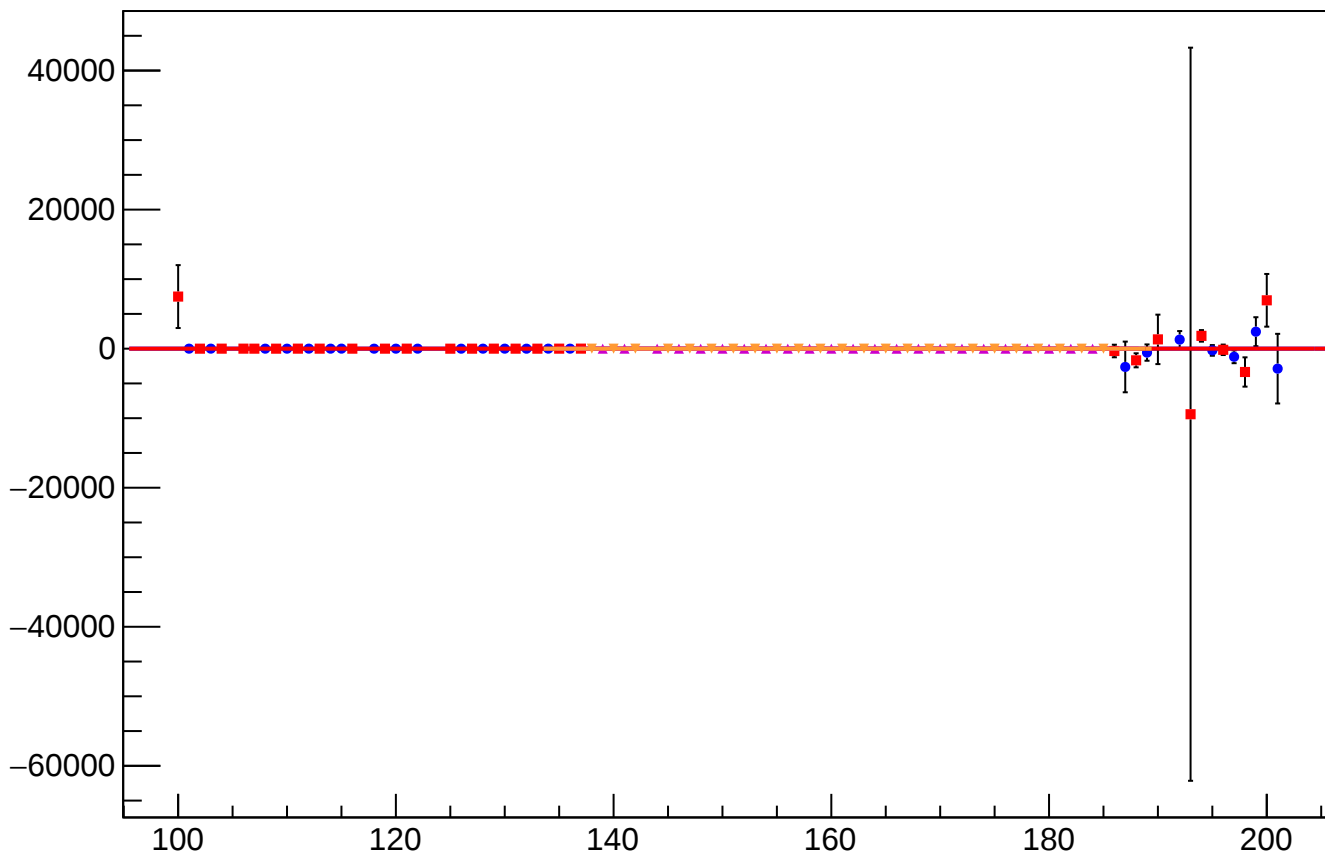
Right: 77.694 $\pm$ 0.015 χ^2 /NDF: 8189391.2/48

In: 84.998 $\pm$ 0.012 χ^2 /NDF: 4610059.9/45

Out: 86.286 $\pm$ 0.012 χ^2 /NDF: 4966388.9/49

All: 85.641 $\pm$ 0.009 χ^2 /NDF: 9581839.0/95

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.531 χ^2 /NDF: 17.2/22

Left Out: -0.516 $\pm$ 0.391 χ^2 /NDF:20.7/23

Right Out: 0.348 $\pm$ 0.549 χ^2 /NDF: 27.4/25

Left In: -0.072 $\pm$ 0.390 χ^2 /NDF:20.4/22

Left: -0.293 $\pm$ 0.276 χ^2 /NDF: 41.7/46

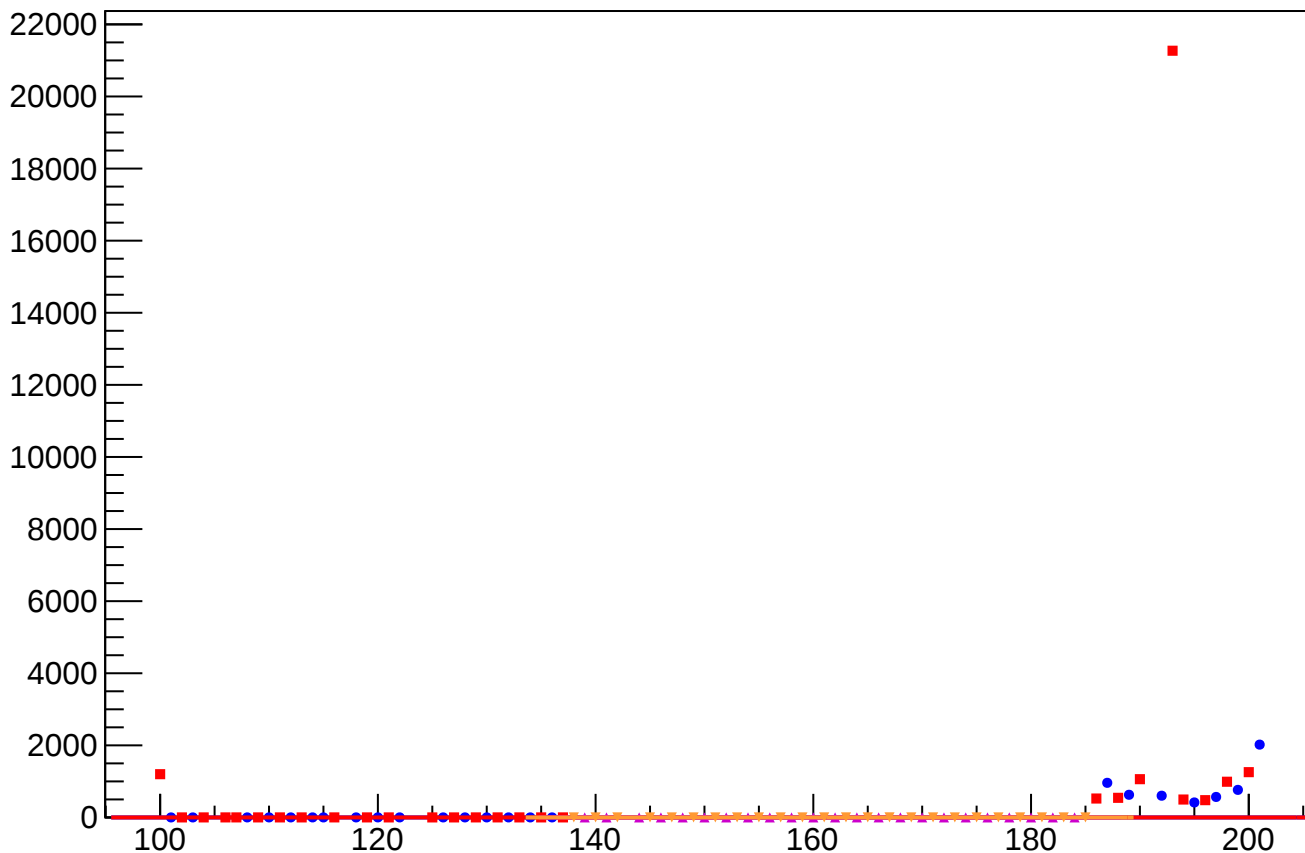
Right: 0.628 $\pm$ 0.382 χ^2 /NDF: 45.1/48

In: 0.266 $\pm$ 0.315 χ^2 /NDF:39.7/45

Out: -0.225 $\pm$ 0.318 χ^2 /NDF:49.7/49

All: 0.023 $\pm$ 0.224 χ^2 /NDF: 90.6/95

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 3752962.5/22

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

Right Out: 1.316+/-0.000 χ^2/NDF : 4469157.6/25

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

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

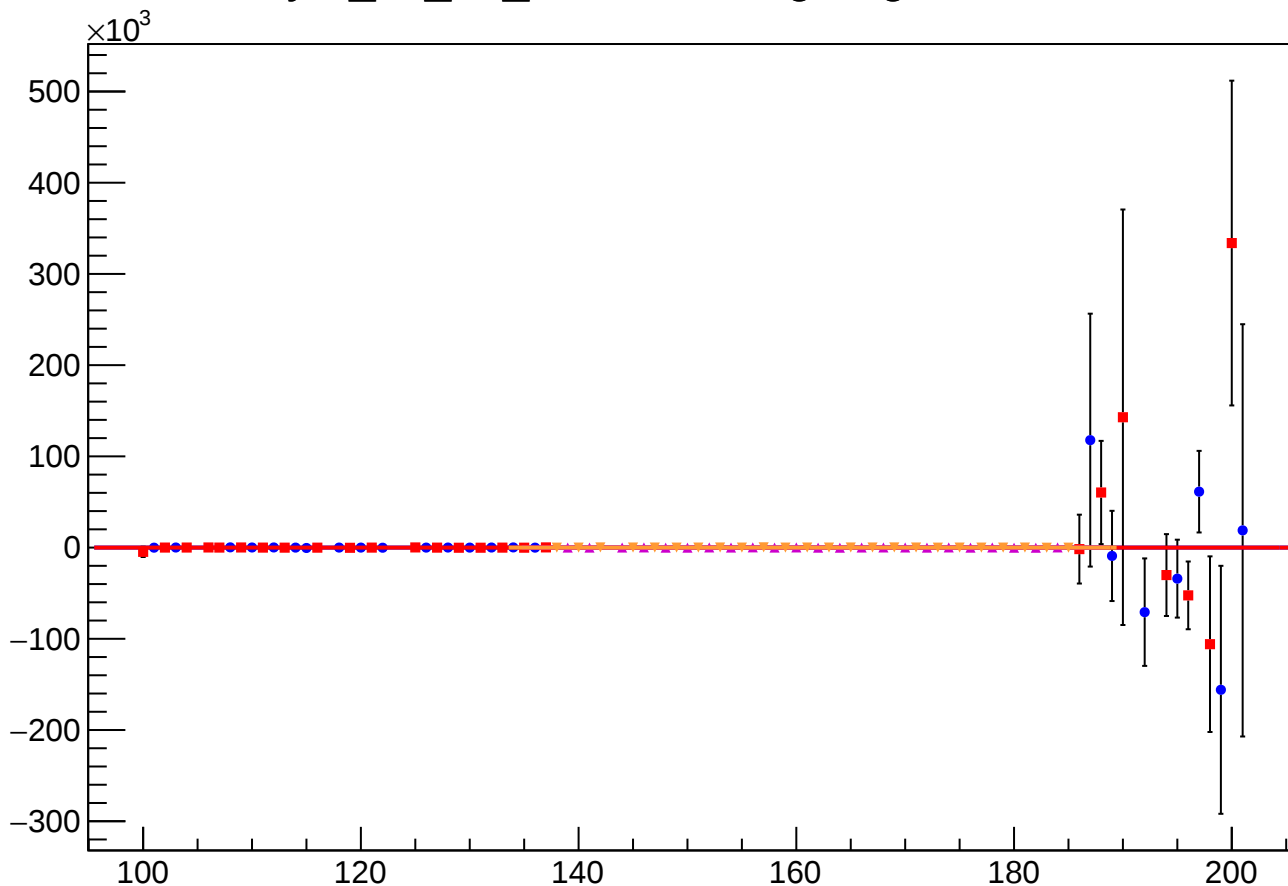
Right: 1.274+/-0.000 χ^2/NDF : 8245418.5/48

In: 1.381+/-0.000 χ^2/NDF :5039149.0/45

Out: 1.418+/-0.000 χ^2/NDF :5728523.5/49

All: 1.400+/-0.000 χ^2/NDF : 10781359.9/95

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.393 ± 30.020 $\chi^2/\text{NDF}: 19.9/22$

Left Out: 15.770 ± 21.479 $\chi^2/\text{NDF}: 17.1/23$

Right Out: -26.415 ± 30.482 $\chi^2/\text{NDF}: 21.7/24$

Left In: 43.905 ± 21.600 $\chi^2/\text{NDF}: 31.1/22$

Left: 29.758 ± 15.231 $\chi^2/\text{NDF}: 49.0/46$

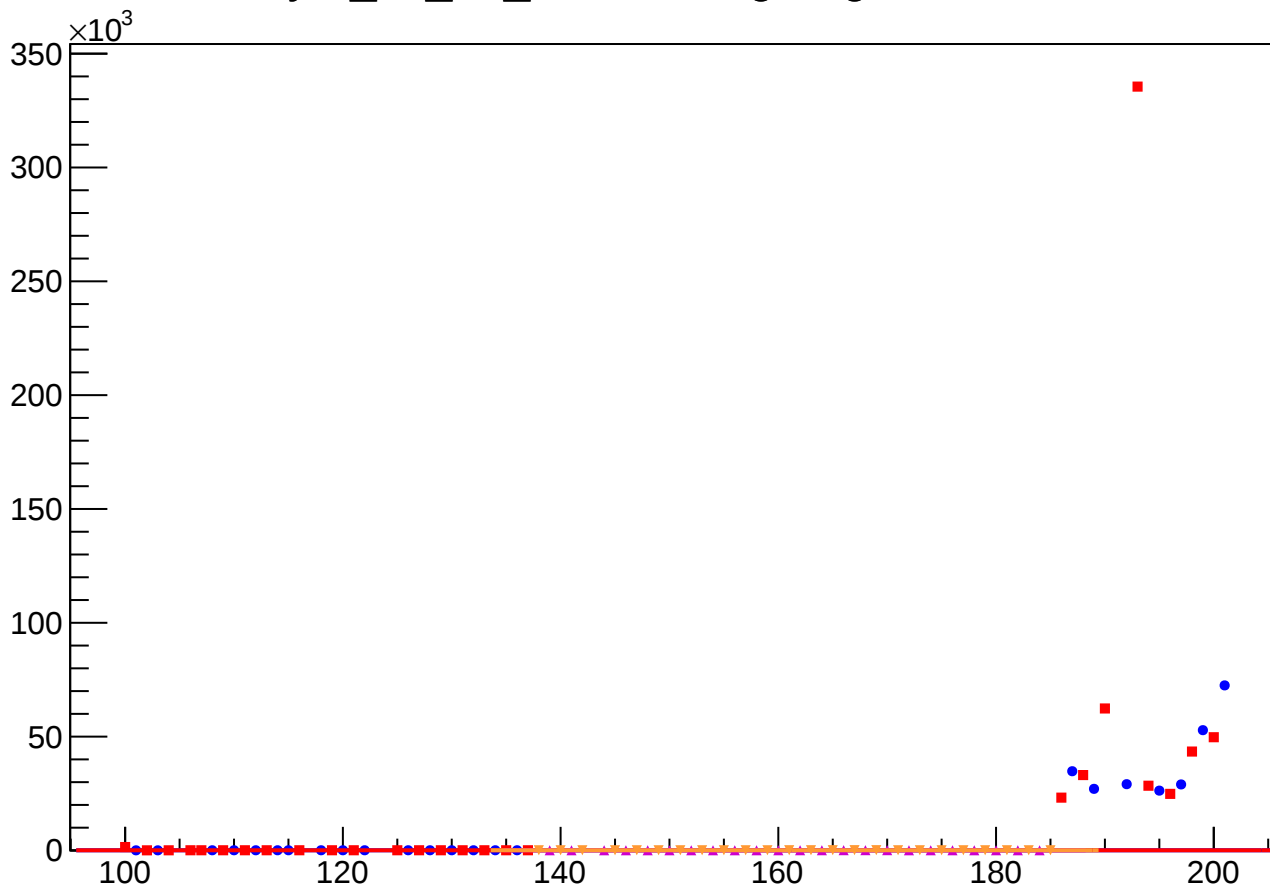
Right: -9.253 ± 21.389 $\chi^2/\text{NDF}: 42.3/47$

In: 31.450 ± 17.533 $\chi^2/\text{NDF}: 52.0/45$

Out: 1.774 ± 17.558 $\chi^2/\text{NDF}: 40.0/48$

All: 16.633 ± 12.407 $\chi^2/\text{NDF}: 93.5/94$

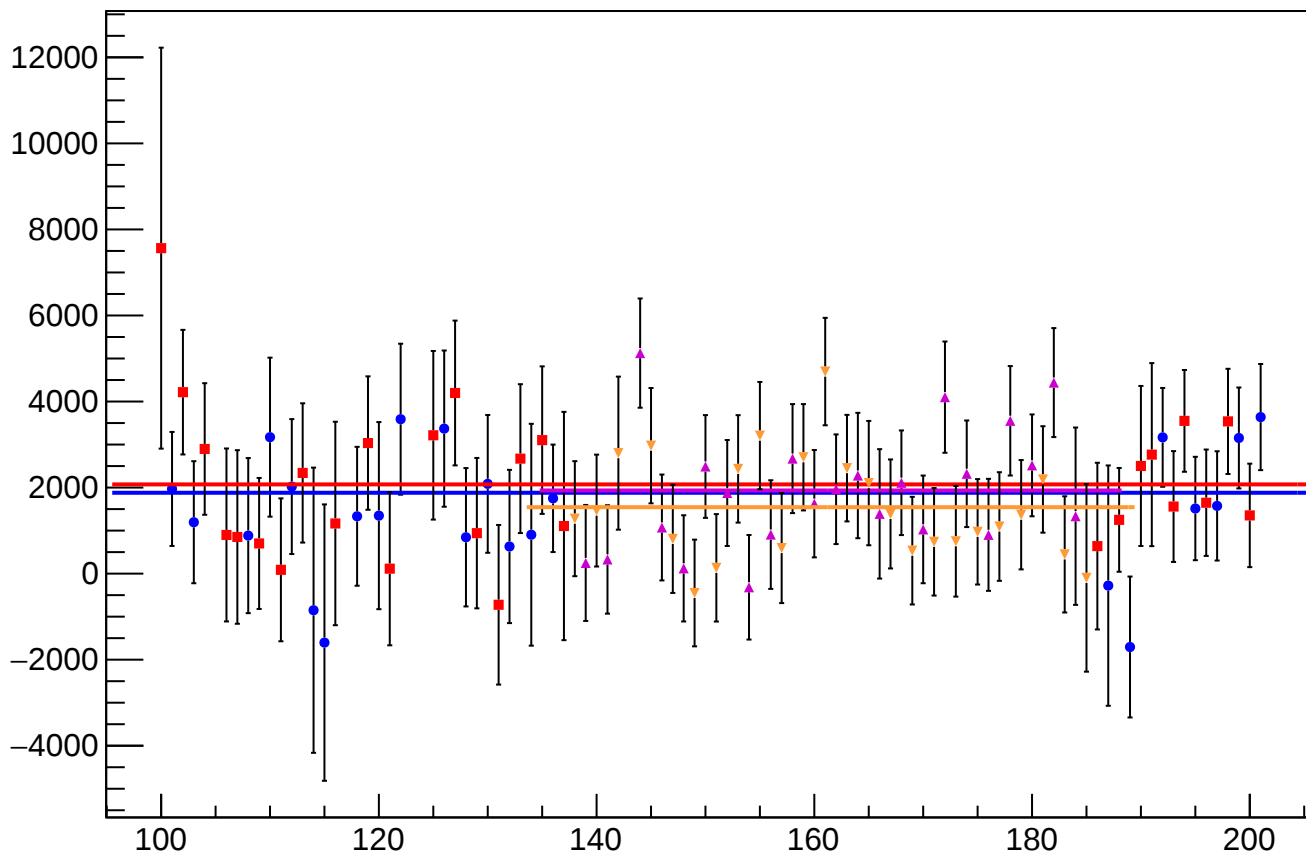
asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.075+/-0.021 χ^2/NDF : 3829610.4/22
 Left Out: 89.740+/-0.015 χ^2/NDF : 465842.6/23
 Right Out: 79.381+/-0.022 χ^2/NDF : 4357098.6/25
 Left In: 89.655+/-0.015 χ^2/NDF : 511848.9/22

Left: 89.697+/-0.011 χ^2/NDF : 977707.1/46
 Right: 77.703+/-0.015 χ^2/NDF : 8198657.6/48
 In: 85.022+/-0.012 χ^2/NDF : 4611109.8/45
 Out: 86.303+/-0.012 χ^2/NDF : 4977261.6/49
 All: 85.662+/-0.009 χ^2/NDF : 9593698.4/95

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1879.580+/-327.464 χ^2/NDF : 15.8/22

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

Right Out: 2073.859+/-310.475 χ^2/NDF : 18.6/26

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

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

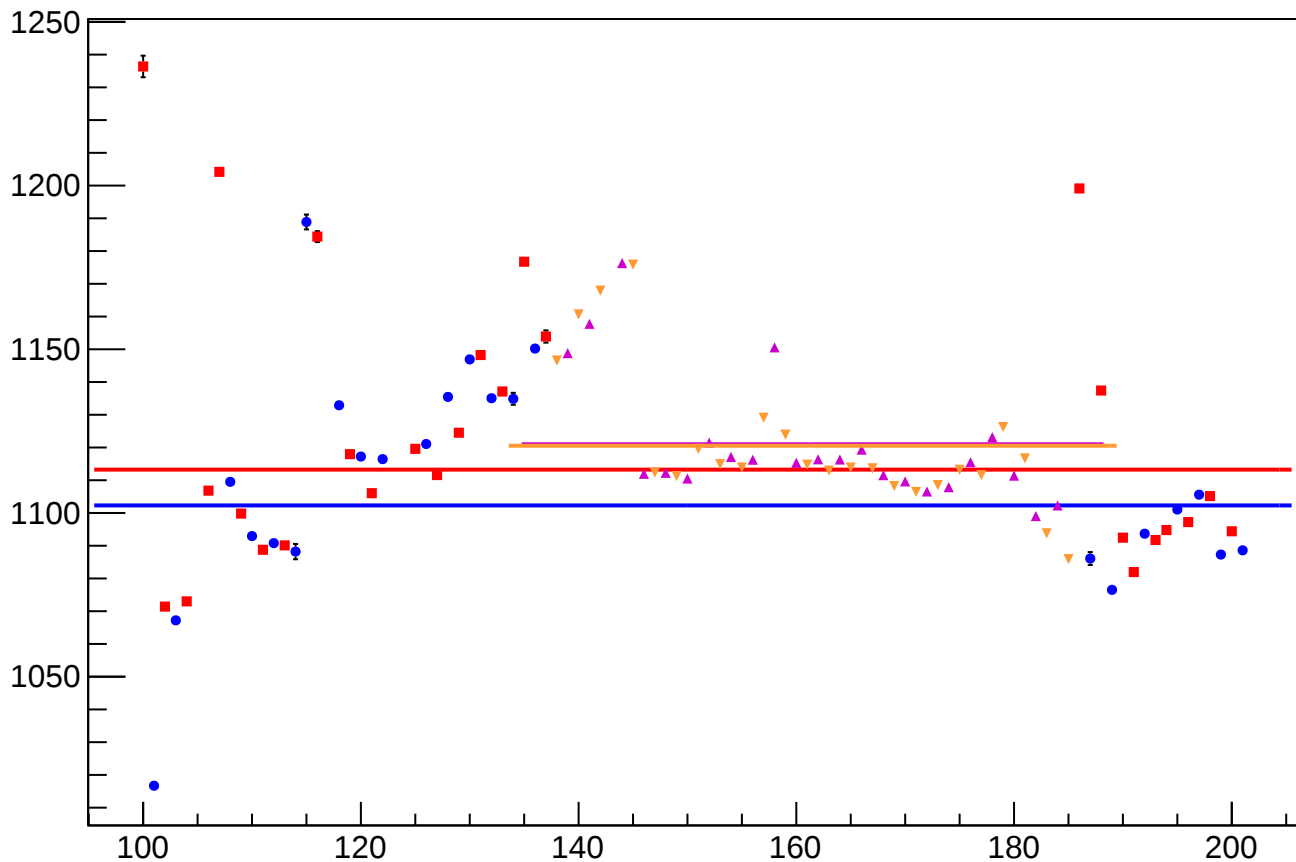
Right: 1981.890+/-225.306 χ^2/NDF : 34.6/49

In: 1911.571+/-207.400 χ^2/NDF : 42.8/45

Out: 1768.614+/-202.119 χ^2/NDF : 40.3/50

All: 1838.249+/-144.751 χ^2/NDF : 83.3/96

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1102.311 $\pm$ 0.232 χ^2 /NDF: 20018.7/22

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

Right Out: 1113.243 $\pm$ 0.220 χ^2 /NDF: 23183.8/26

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

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

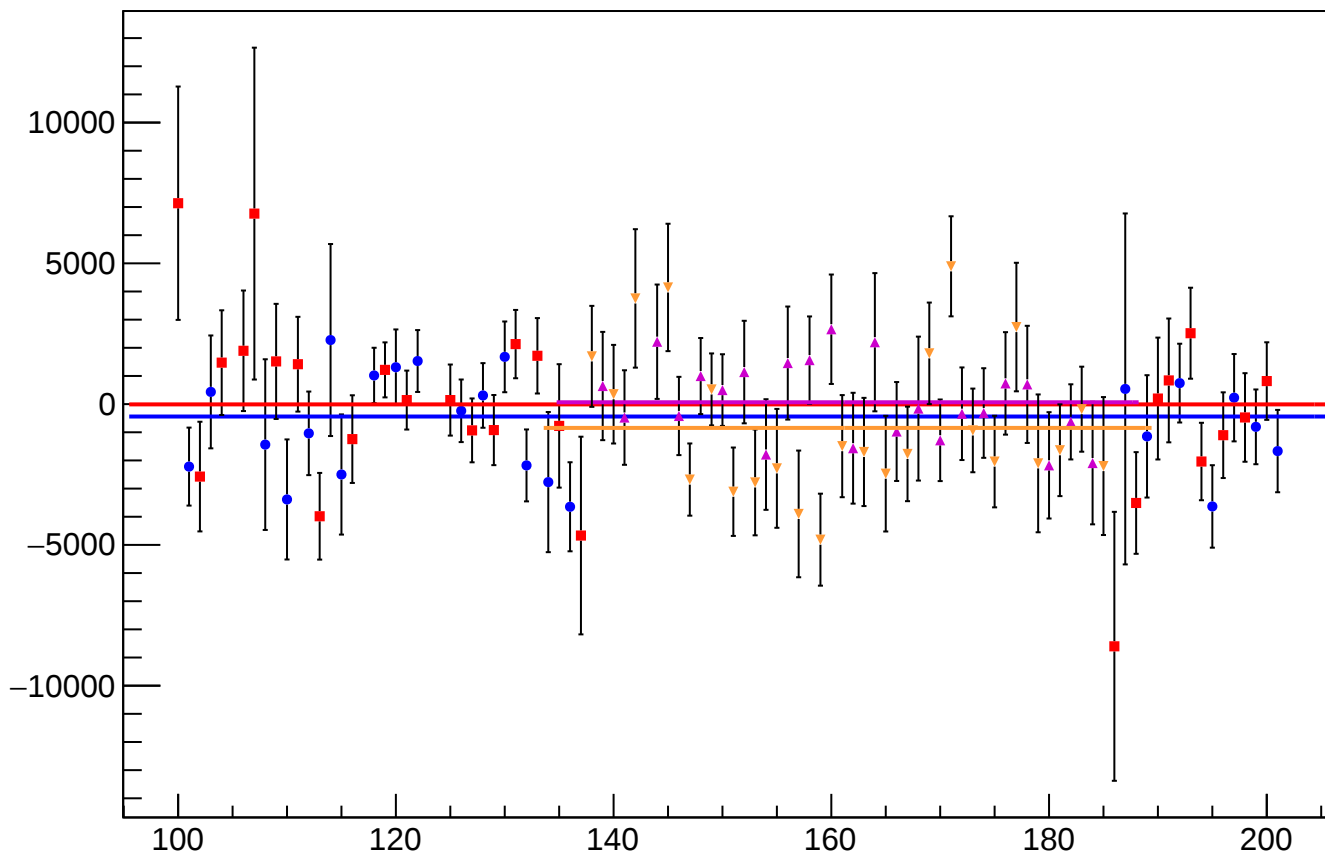
Right: 1108.068 $\pm$ 0.159 χ^2 /NDF: 44376.3/49

In: 1113.498 $\pm$ 0.147 χ^2 /NDF:33557.8/45

Out: 1117.449 $\pm$ 0.143 χ^2 /NDF:34073.5/50

All: 1115.525 $\pm$ 0.102 χ^2 /NDF: 68003.7/96

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -440.407 $\pm$ 311.315 χ^2 /NDF: 29.4/22

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

Right Out: -9.429 $\pm$ 303.348 χ^2 /NDF: 38.2/26

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

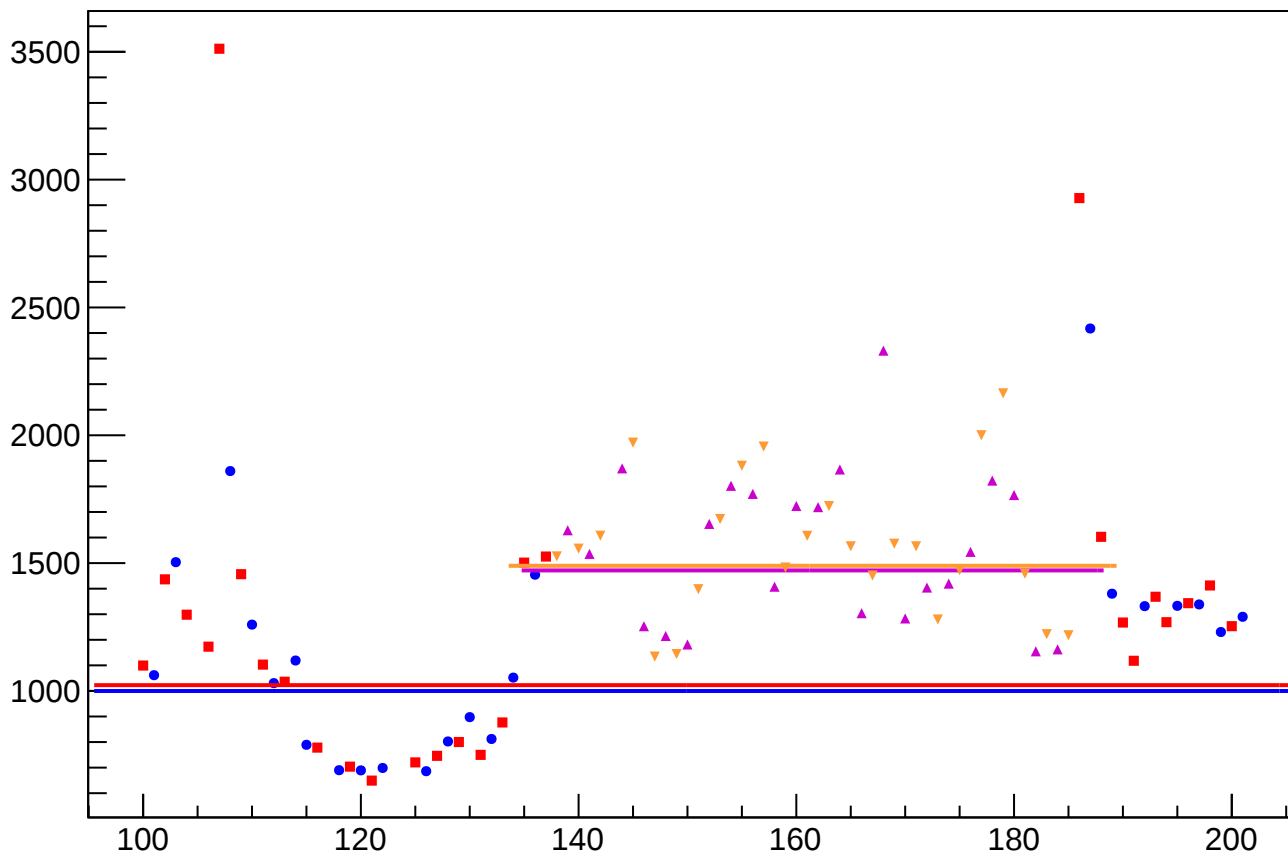
Right: -219.333 $\pm$ 217.261 χ^2 /NDF: 68.6/49

In: -223.011 $\pm$ 235.138 χ^2 /NDF:42.7/45

Out: -355.091 $\pm$ 232.278 χ^2 /NDF:84.6/50

All: -289.859 $\pm$ 165.247 χ^2 /NDF: 127.5/96

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 999.784+/-0.220 χ^2/NDF : 1856403.9/22

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

Right Out: 1022.588+/-0.214 χ^2/NDF : 2649734.9/26

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

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

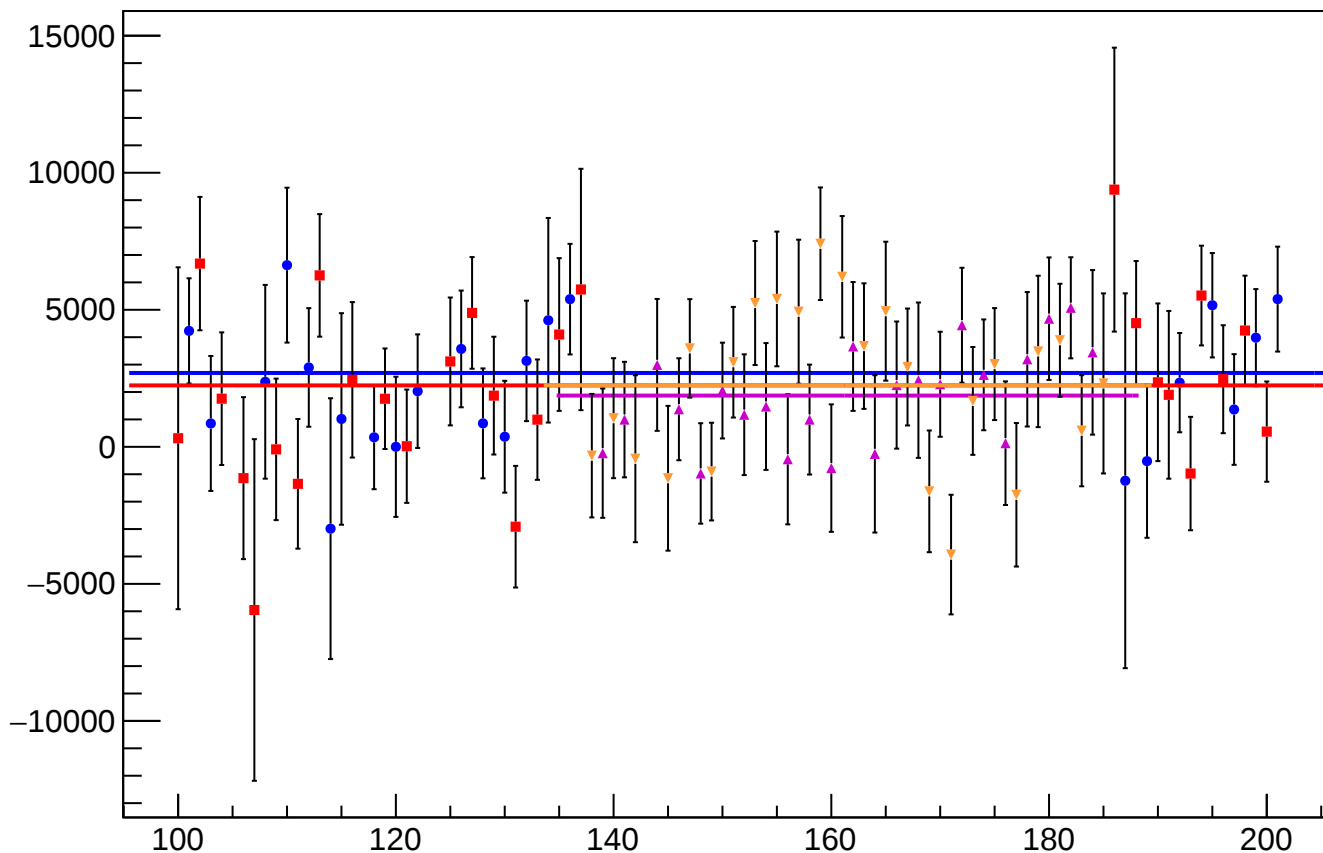
Right: 1011.481+/-0.154 χ^2/NDF : 4511643.9/49

In: 1202.346+/-0.166 χ^2/NDF : 4933105.6/45

Out: 1215.743+/-0.164 χ^2/NDF : 5619139.0/50

All: 1209.126+/-0.117 χ^2/NDF : 10555530.4/95

asym_usl_mean vs Slug, Sign Corrected



Right In: 2695.551+/-474.987 χ^2/NDF : 18.2/22

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

Right Out: 2241.465+/-460.082 χ^2/NDF : 33.2/26

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

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

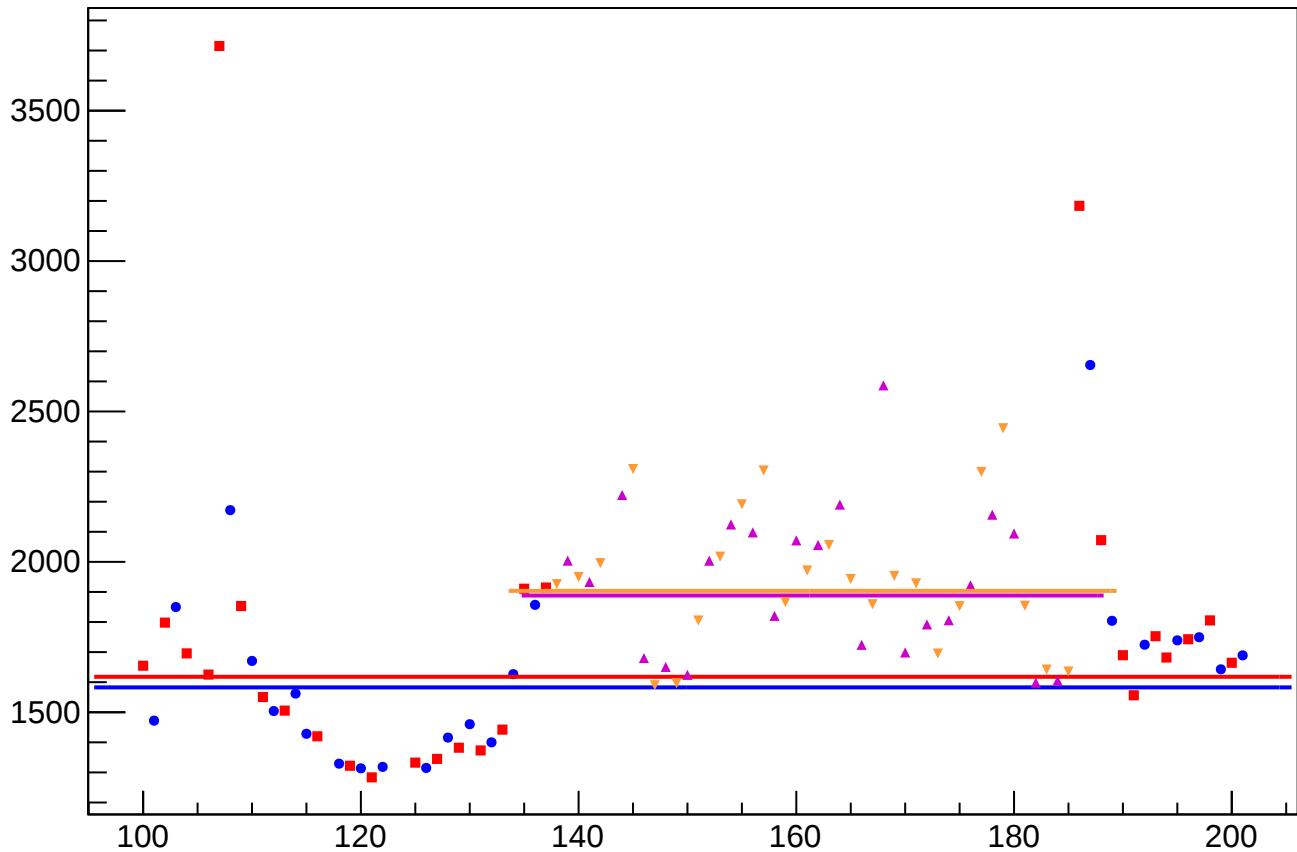
Right: 2461.271+/-330.471 χ^2/NDF : 51.9/49

In: 2265.353+/-328.747 χ^2/NDF : 34.7/45

Out: 2242.952+/-324.044 χ^2/NDF : 71.8/50

All: 2253.991+/-230.779 χ^2/NDF : 106.5/96

asym_usl_rms vs Slug, Sign Corrected



Right In: 1582.745 $\pm$ 0.336 χ^2 /NDF: 397493.3/22

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

Right Out: 1617.892 $\pm$ 0.325 χ^2 /NDF: 838248.0/26

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

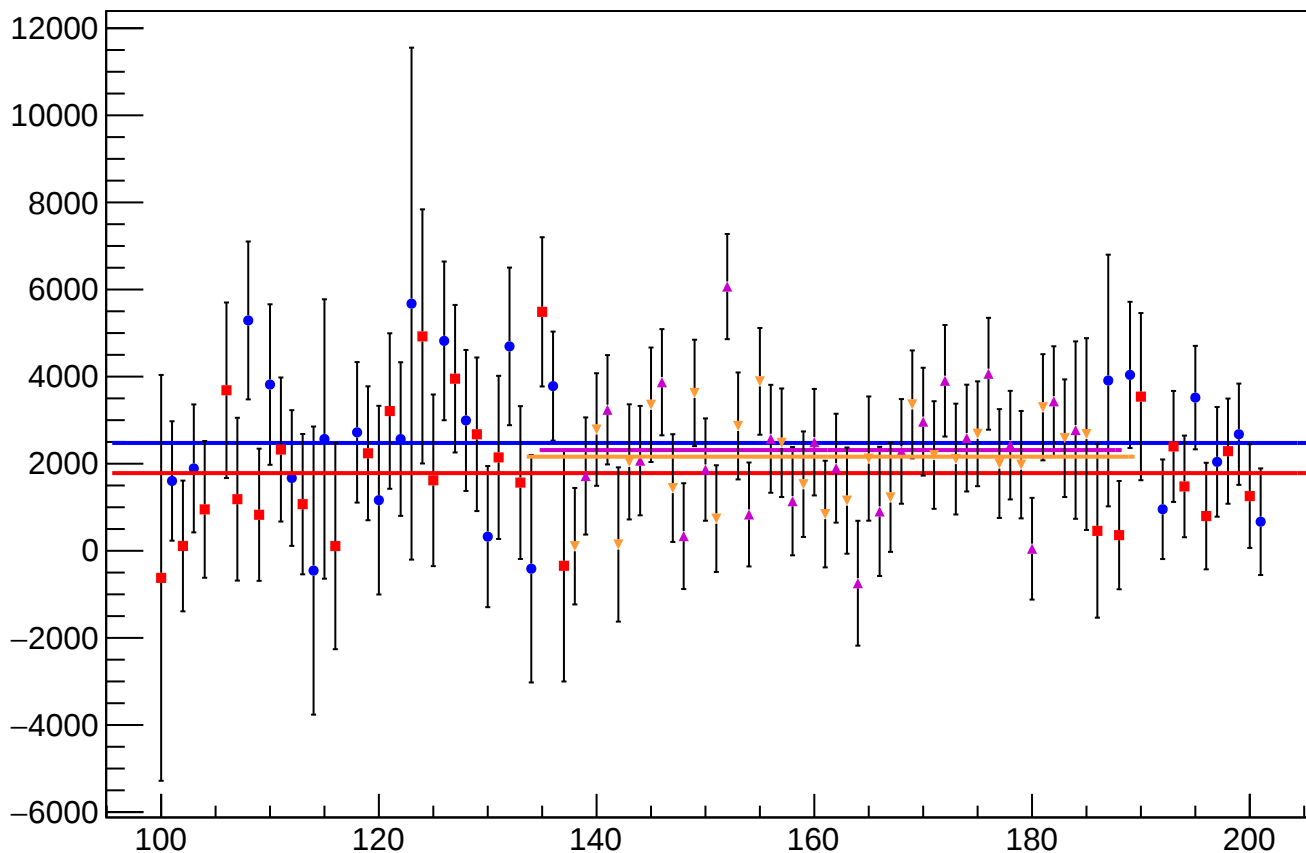
Right: 1600.879 $\pm$ 0.234 χ^2 /NDF: 1241391.2/49

In: 1741.838 $\pm$ 0.232 χ^2 /NDF: 1332738.7/45

Out: 1761.861 $\pm$ 0.229 χ^2 /NDF: 1688652.8/50

All: 1751.993 $\pm$ 0.163 χ^2 /NDF: 3025154.7/96

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2476.498 $\pm$ 328.257 χ^2 /NDF: 18.6/23

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

Right Out: 1784.408 $\pm$ 312.429 χ^2 /NDF: 17.0/26

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

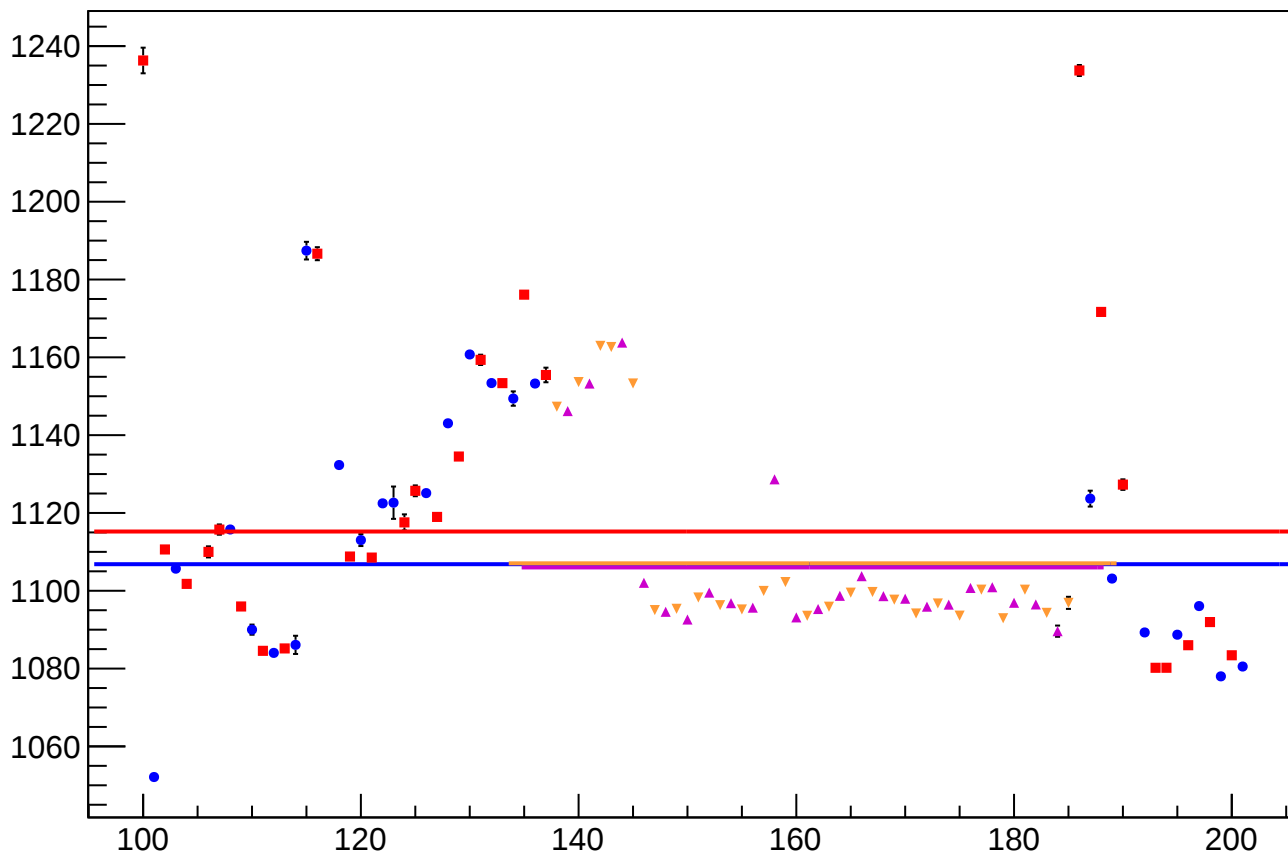
Right: 2113.366 $\pm$ 226.309 χ^2 /NDF: 37.9/50

In: 2377.650 $\pm$ 205.925 χ^2 /NDF:50.0/46

Out: 2008.907 $\pm$ 198.716 χ^2 /NDF:33.0/51

All: 2186.711 $\pm$ 142.994 χ^2 /NDF: 84.6/98

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1106.831 $\pm$ 0.232 χ^2 /NDF: 17189.7/23

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

Right Out: 1115.231 $\pm$ 0.221 χ^2 /NDF: 28358.1/26

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

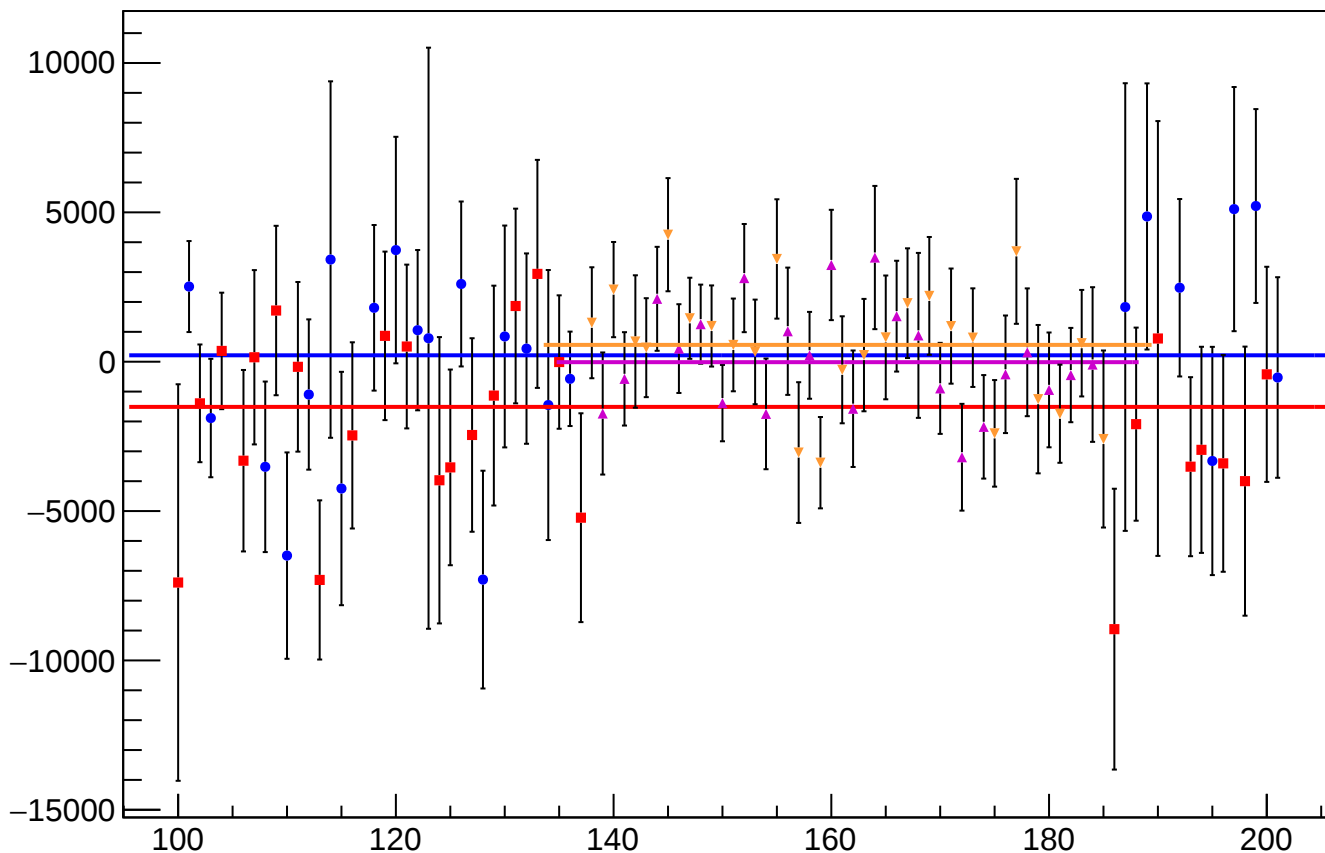
Right: 1111.238 $\pm$ 0.160 χ^2 /NDF: 46234.9/50

In: 1106.325 $\pm$ 0.146 χ^2 /NDF: 28748.8/46

Out: 1110.363 $\pm$ 0.141 χ^2 /NDF: 44348.9/51

All: 1108.416 $\pm$ 0.101 χ^2 /NDF: 73496.1/98

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 214.630 $\pm$ 596.240 χ^2 /NDF: 23.9/23

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

Right Out: -1512.515 $\pm$ 594.584 χ^2 /NDF: 18.7/26

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

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

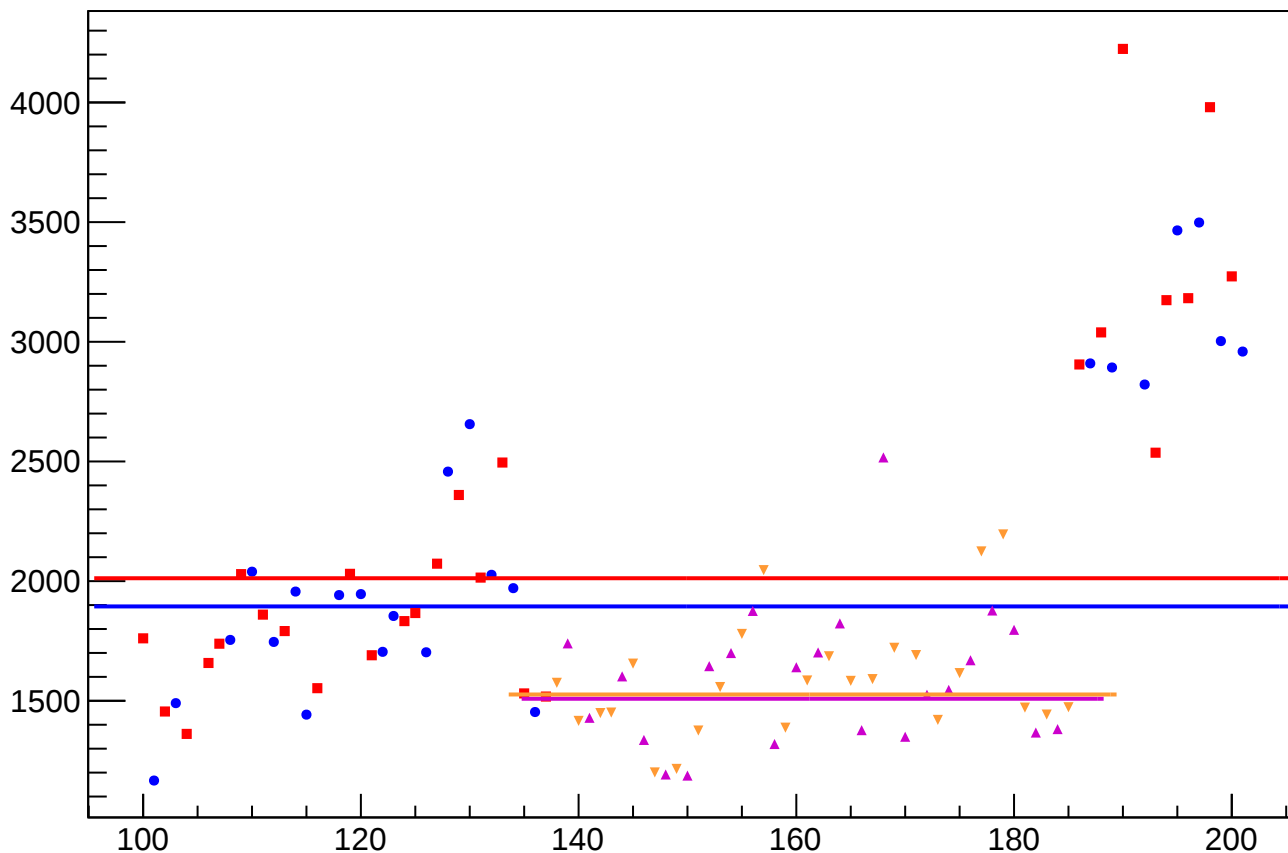
Right: -651.344 $\pm$ 421.019 χ^2 /NDF: 46.7/50

In: 47.681 $\pm$ 312.449 χ^2 /NDF:44.1/46

Out: 4.408 $\pm$ 308.516 χ^2 /NDF:54.3/51

All: 25.771 $\pm$ 219.531 χ^2 /NDF: 98.5/98

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1894.327 $\pm$ 0.422 χ^2 /NDF: 2306704.8/23

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

Right Out: 2012.094 $\pm$ 0.420 χ^2 /NDF: 2292811.8/26

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

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

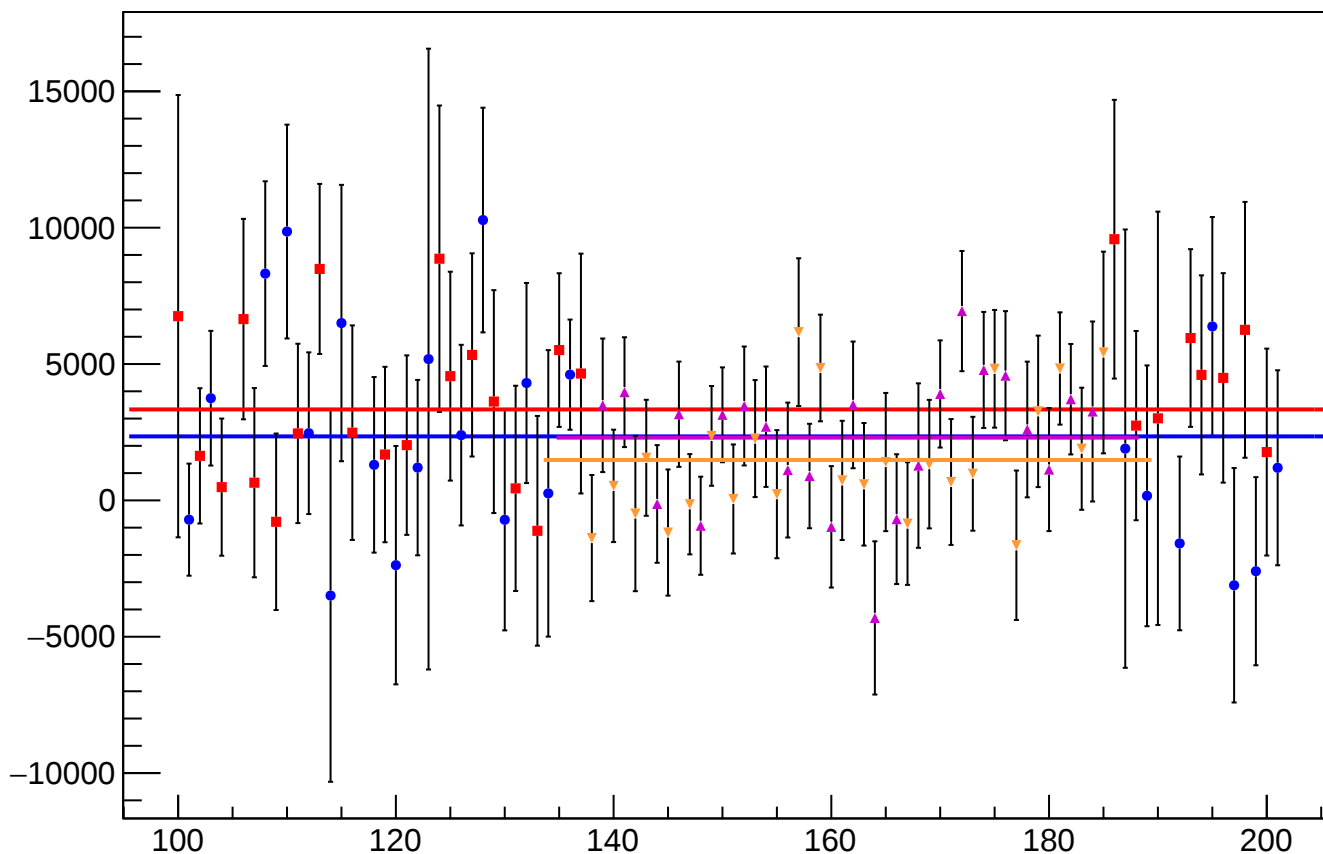
Right: 1953.374 $\pm$ 0.298 χ^2 /NDF: 4638638.1/50

In: 1614.511 $\pm$ 0.221 χ^2 /NDF: 3845630.2/46

Out: 1657.159 $\pm$ 0.218 χ^2 /NDF: 4021793.1/51

All: 1636.105 $\pm$ 0.155 χ^2 /NDF: 7886290.5/98

asym_usr_mean vs Slug, Sign Corrected



Right In: 2346.604 $\pm$ 710.090 χ^2 /NDF: 24.7/23

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

Right Out: 3335.613 $\pm$ 695.993 χ^2 /NDF: 14.9/26

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

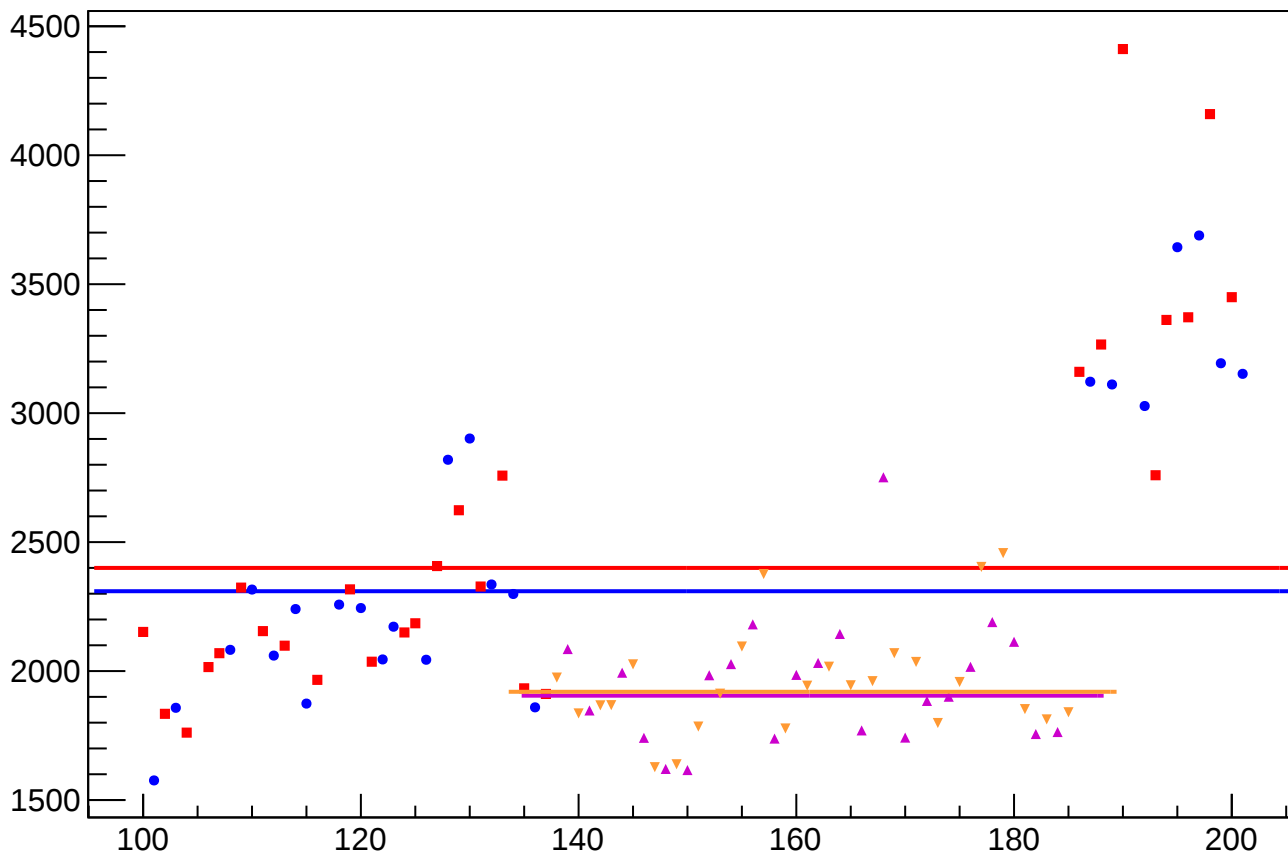
Right: 2851.022 $\pm$ 497.051 χ^2 /NDF: 40.6/50

In: 2314.615 $\pm$ 385.503 χ^2 /NDF:49.5/46

Out: 2028.673 $\pm$ 377.883 χ^2 /NDF:40.9/51

All: 2168.790 $\pm$ 269.857 χ^2 /NDF: 90.6/98

asym_usr_rms vs Slug, Sign Corrected



Right In: 2309.634+/-0.502

χ^2/NDF : 1408112.4/23

Left Out: 1919.732+/-0.318

χ^2/NDF : 366218.1/24

Right Out: 2399.960+/-0.492

χ^2/NDF : 1502326.4/26

Left In: 1904.629+/-0.325

χ^2/NDF : 447350.7/22

Left: 1912.331+/-0.227

χ^2/NDF : 814672.9/47

Right: 2355.702+/-0.351

χ^2/NDF : 2926943.9/50

In: 2023.997+/-0.273

χ^2/NDF : 2314321.9/46

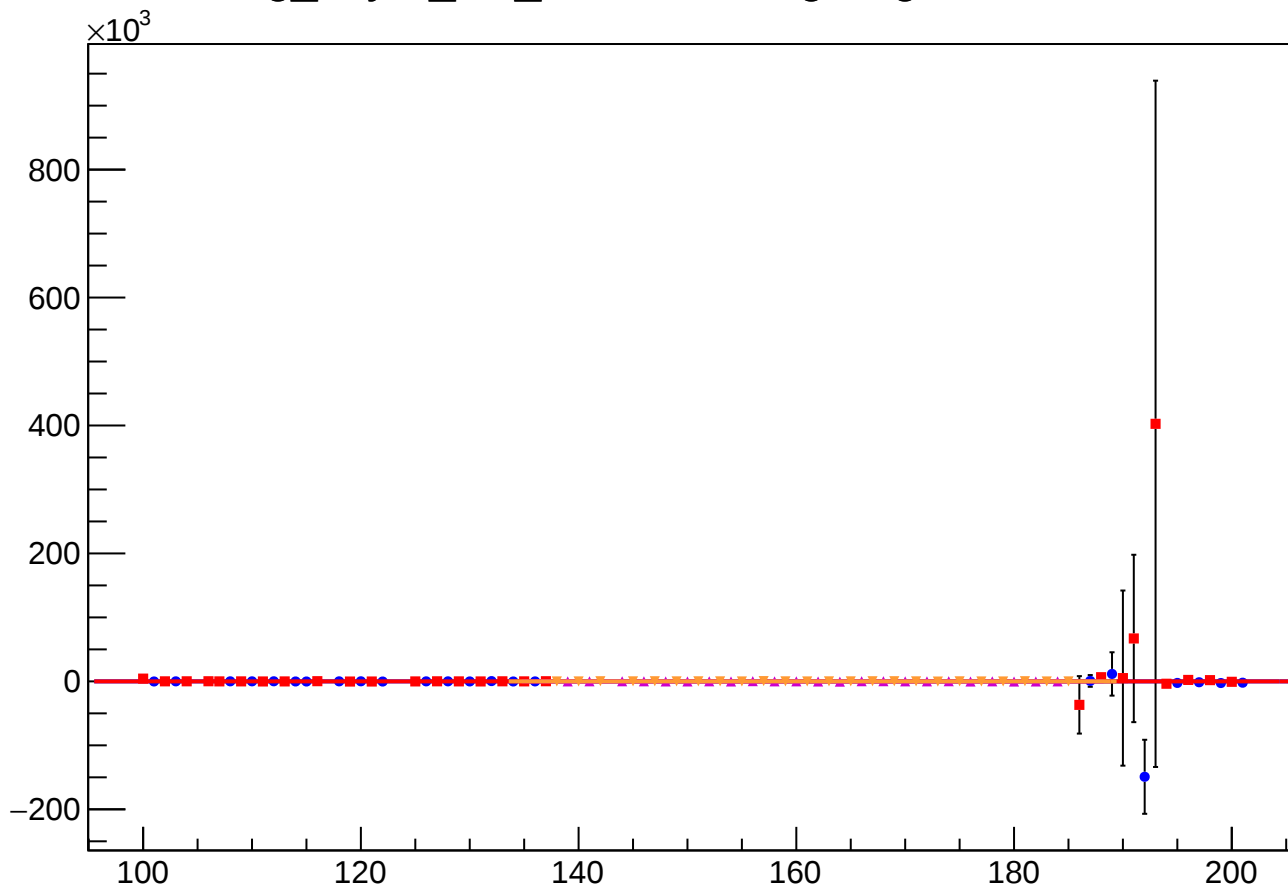
Out: 2061.295+/-0.267

χ^2/NDF : 2540030.6/51

All: 2043.018+/-0.191

χ^2/NDF : 4863900.5/98

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -1.403 ± 36.766 χ^2/NDF : 24.3/22

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

Right Out: 1.898 ± 36.751 χ^2/NDF : 17.4/26

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

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

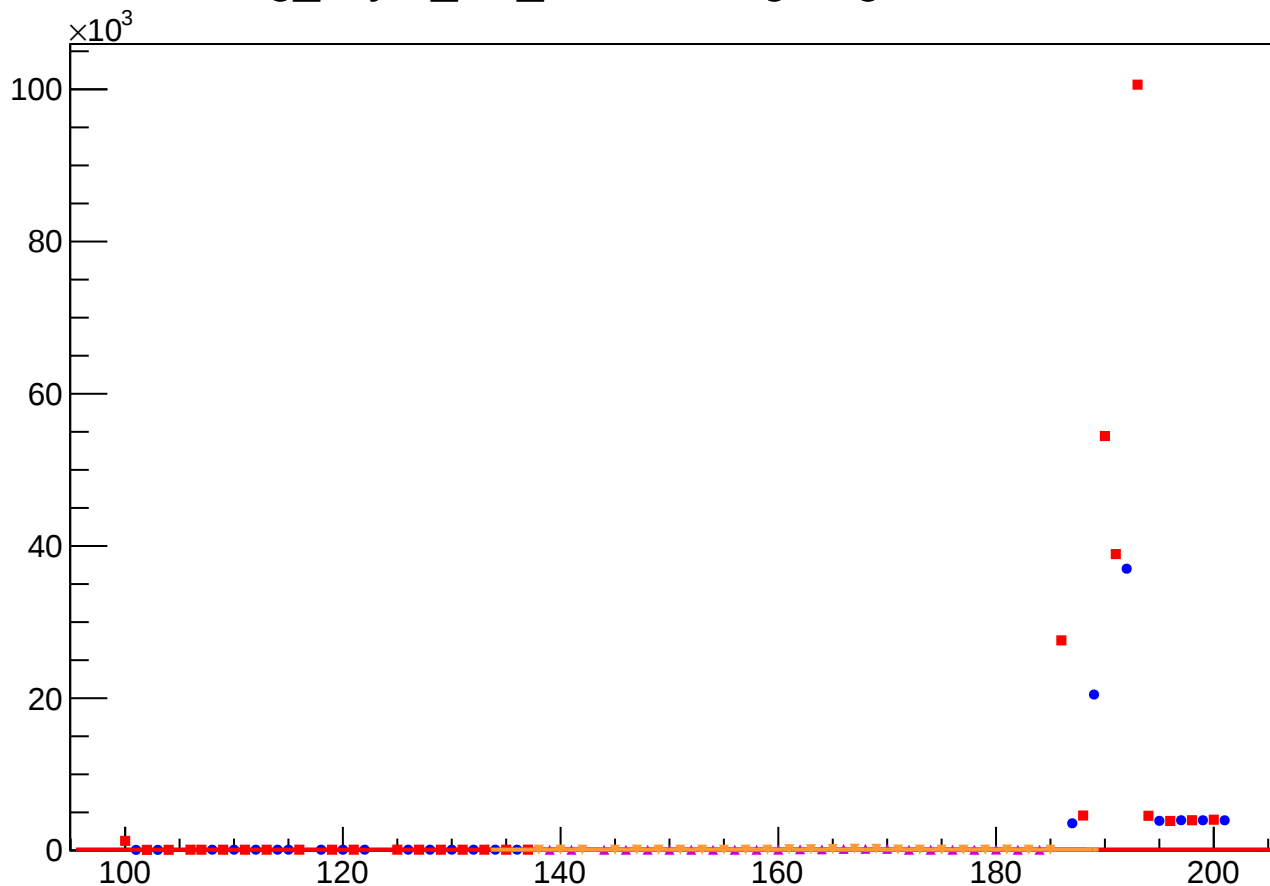
Right: 0.248 ± 25.992 χ^2/NDF : 41.7/49

In: 15.902 ± 21.414 χ^2/NDF : 61.0/45

Out: 8.758 ± 21.366 χ^2/NDF : 53.4/50

All: 12.322 ± 15.125 χ^2/NDF : 114.5/96

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 95.222 $\pm$ 0.026 χ^2 /NDF: 8144777.8/22

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

Right Out: 97.510 $\pm$ 0.026 χ^2 /NDF: 8335737.2/26

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

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

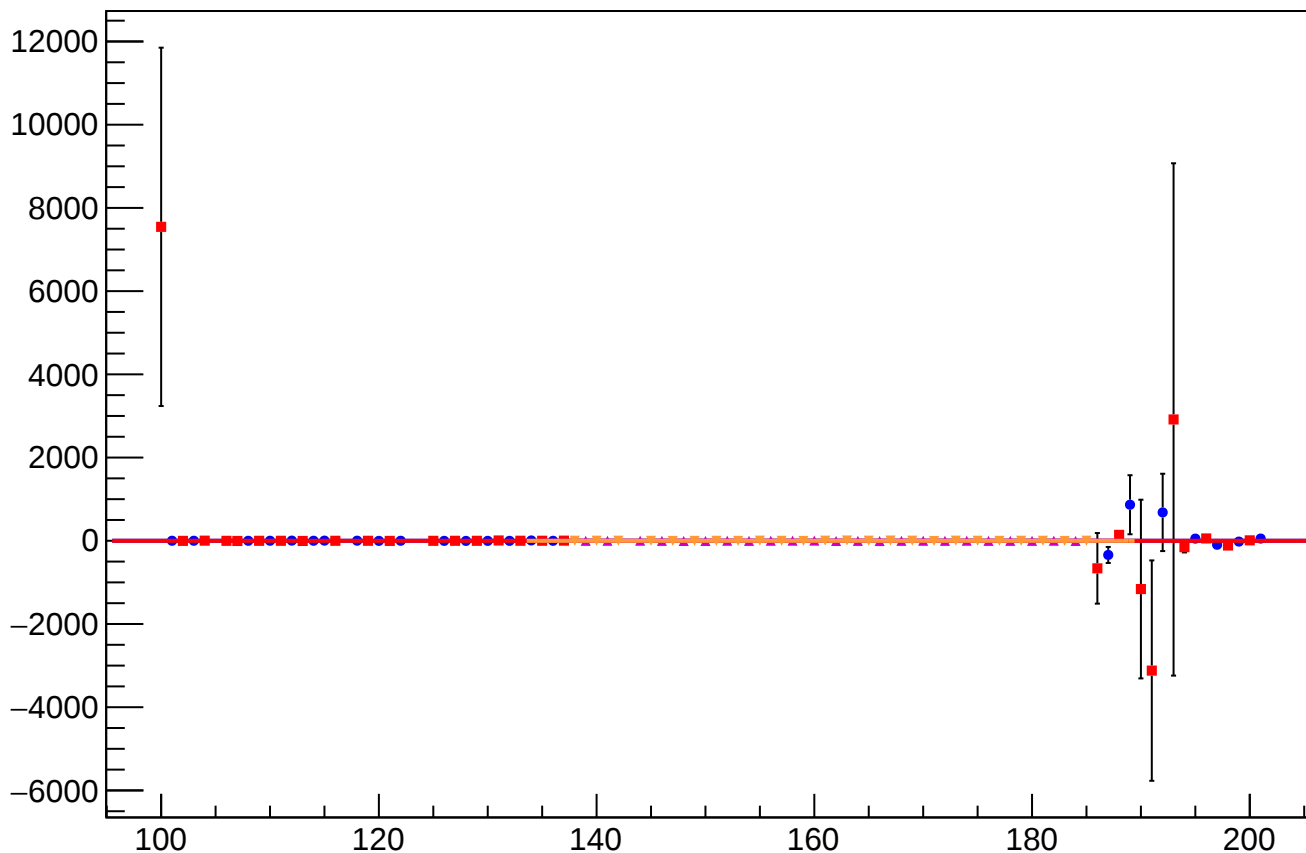
Right: 96.366 $\pm$ 0.018 χ^2 /NDF: 16484387.7/49

In: 103.449 $\pm$ 0.015 χ^2 /NDF: 9787357.4/45

Out: 104.494 $\pm$ 0.015 χ^2 /NDF: 9879821.7/50

All: 103.972 $\pm$ 0.011 χ^2 /NDF: 19669565.0/96

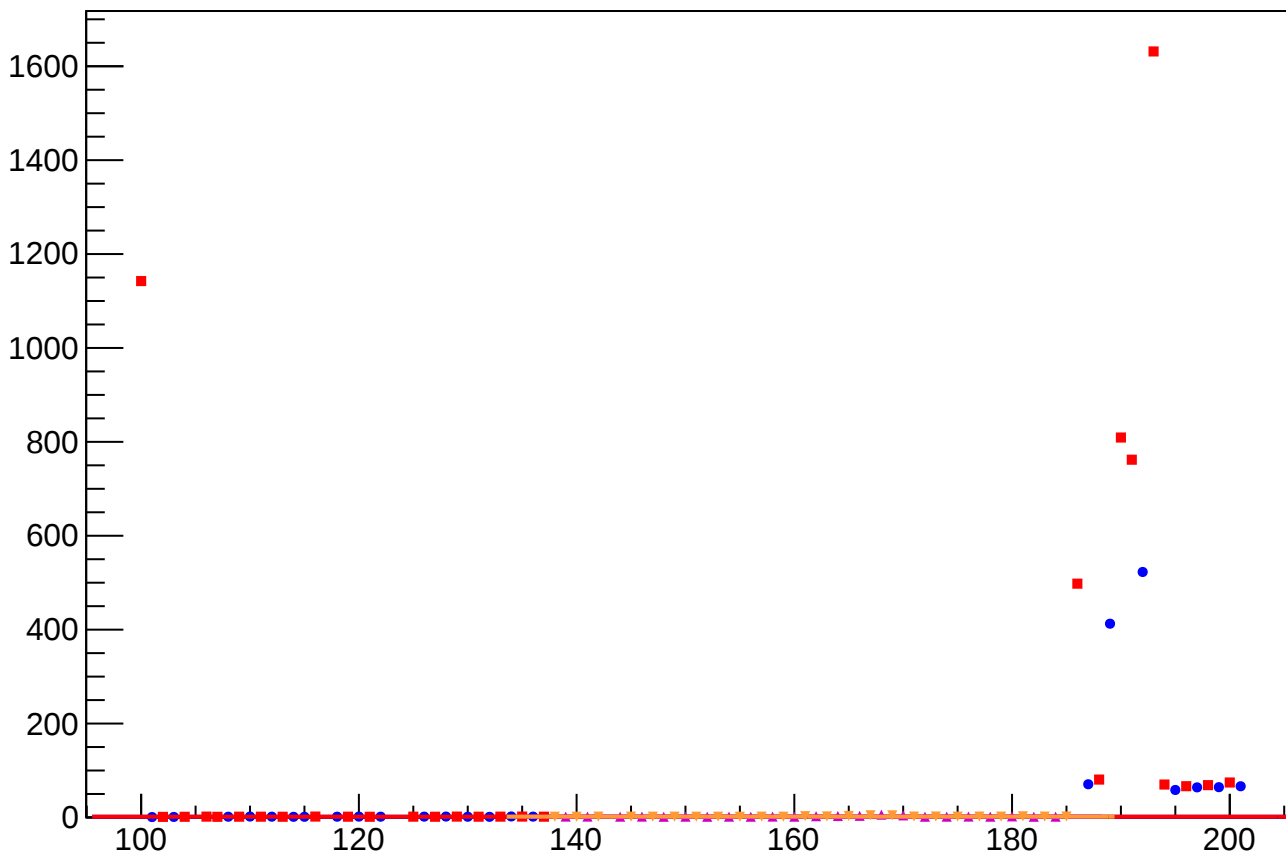
asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.387 ± 0.617 $\chi^2/\text{NDF}: 18.0/22$
Left Out: -0.534 ± 0.475 $\chi^2/\text{NDF}: 30.5/23$
Right Out: -0.346 ± 0.644 $\chi^2/\text{NDF}: 29.4/26$
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: 0.036 ± 0.445 $\chi^2/\text{NDF}: 48.1/49$
In: 0.106 ± 0.381 $\chi^2/\text{NDF}: 43.3/45$
Out: -0.468 ± 0.382 $\chi^2/\text{NDF}: 60.0/50$
All: -0.180 ± 0.270 $\chi^2/\text{NDF}: 104.4/96$

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.437+/-0.000 χ^2/NDF : 7446956.6/22

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

Right Out: 1.573+/-0.000 χ^2/NDF : 7439400.3/26

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

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

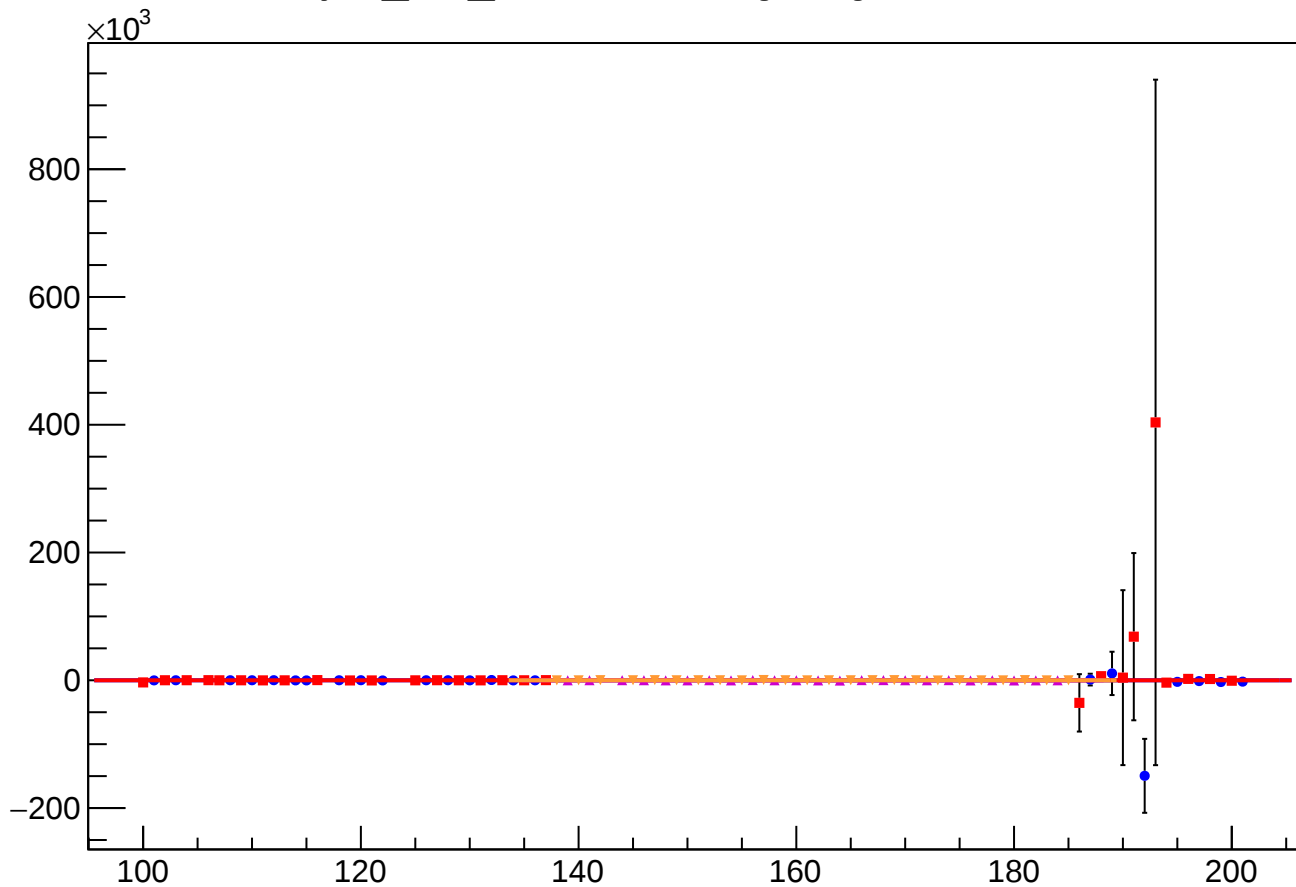
Right: 1.502+/-0.000 χ^2/NDF : 14932466.8/49

In: 1.663+/-0.000 χ^2/NDF :9801766.4/45

Out: 1.701+/-0.000 χ^2/NDF :9162460.1/50

All: 1.682+/-0.000 χ^2/NDF : 18974193.4/96

asym_dsl_mean vs Slug, Sign Corrected



Right In: -1.106 ± 36.775 $\chi^2/\text{NDF}: 24.5/22$

Left Out: 12.948 ± 26.268 $\chi^2/\text{NDF}: 35.7/23$

Right Out: 1.656 ± 36.761 $\chi^2/\text{NDF}: 16.9/26$

Left In: 25.312 ± 26.351 $\chi^2/\text{NDF}: 35.7/22$

Left: 19.110 ± 18.604 $\chi^2/\text{NDF}: 71.6/46$

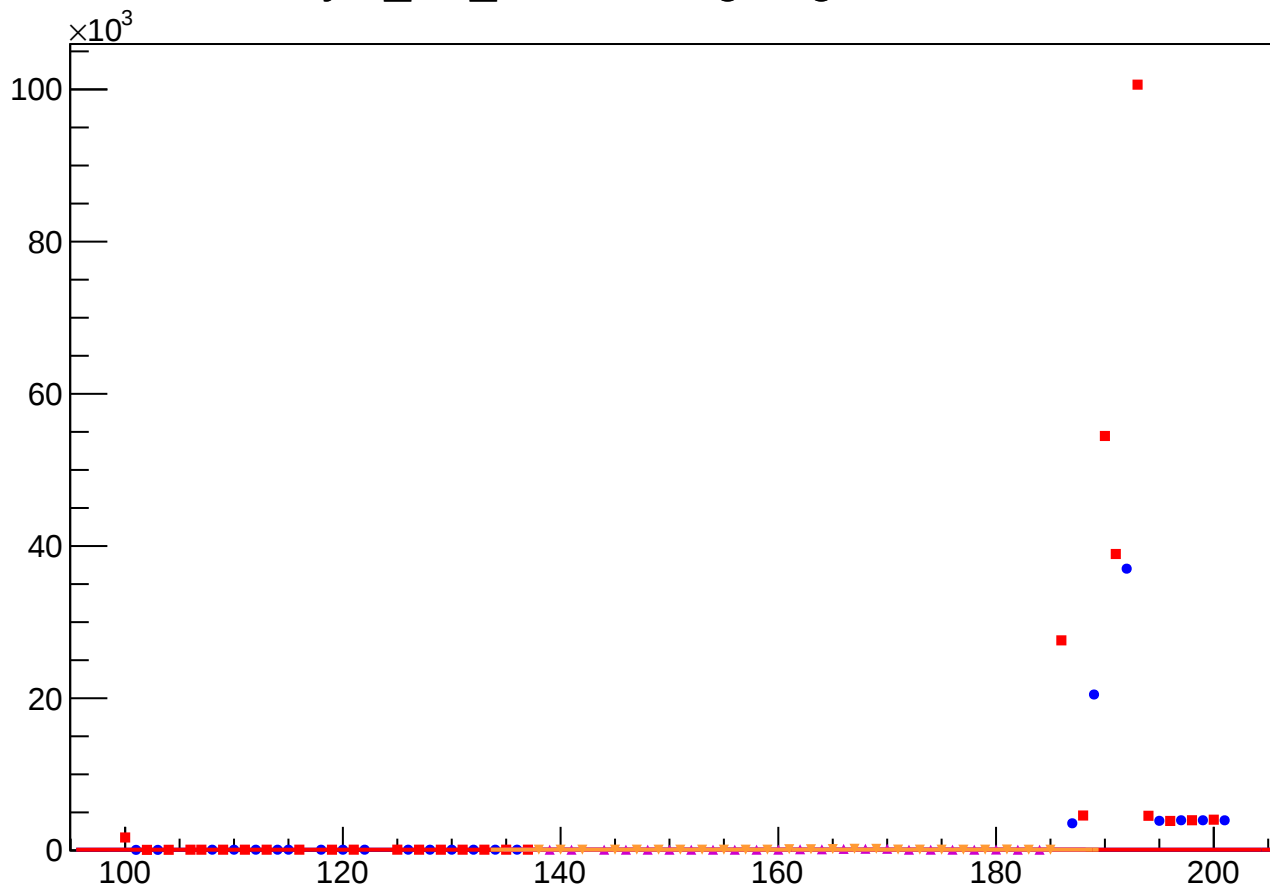
Right: 0.276 ± 25.999 $\chi^2/\text{NDF}: 41.4/49$

In: 16.349 ± 21.420 $\chi^2/\text{NDF}: 60.5/45$

Out: 9.131 ± 21.372 $\chi^2/\text{NDF}: 52.7/50$

All: 12.732 ± 15.129 $\chi^2/\text{NDF}: 113.3/96$

asym_dsl_rms vs Slug, Sign Corrected



Right In: 95.247 $\pm$ 0.026 χ^2 /NDF: 8144770.2/22

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

Right Out: 97.519 $\pm$ 0.026 χ^2 /NDF: 8340969.3/26

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

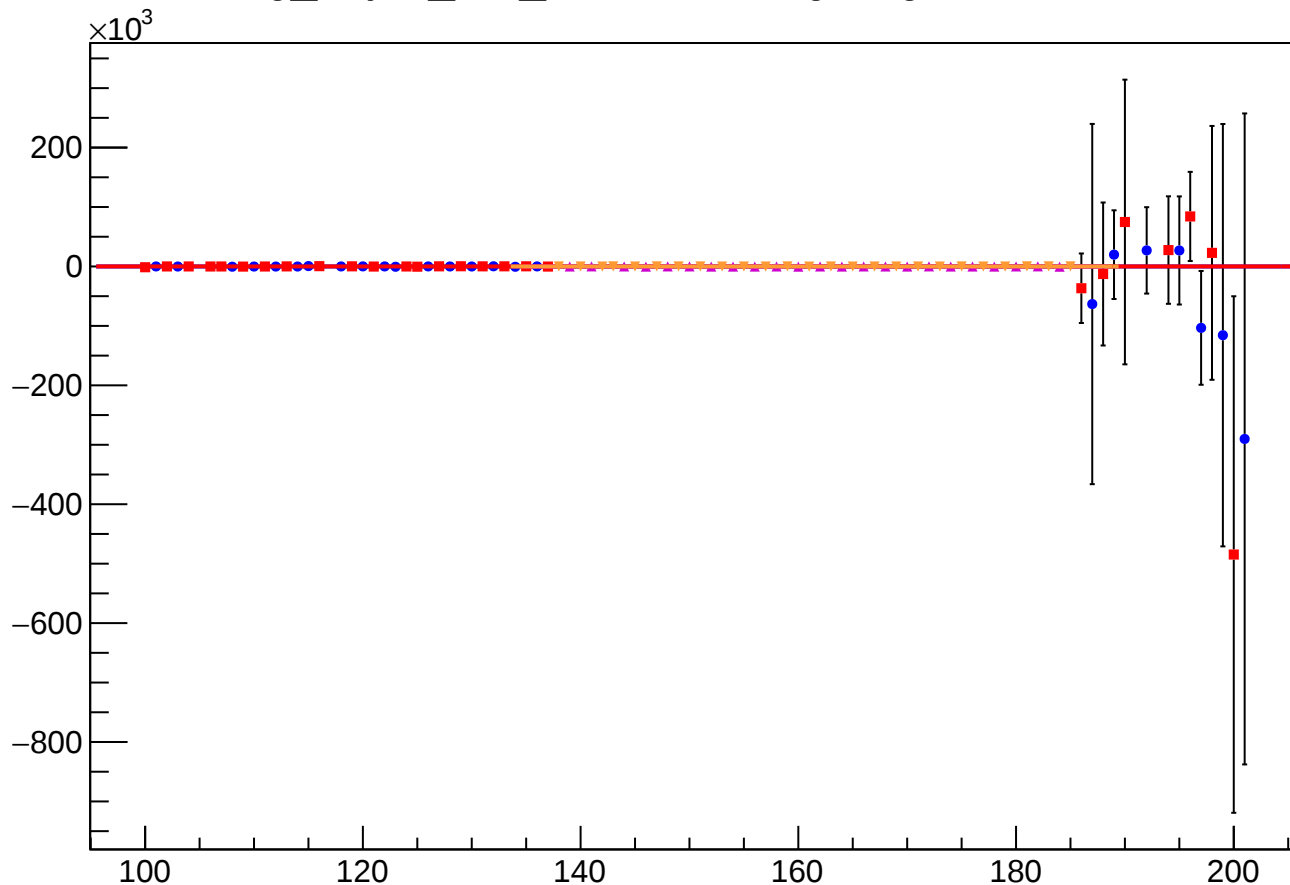
Right: 96.383 $\pm$ 0.018 χ^2 /NDF: 16489557.9/49

In: 103.477 $\pm$ 0.015 χ^2 /NDF: 9788721.3/45

Out: 104.517 $\pm$ 0.015 χ^2 /NDF: 9886829.7/50

All: 103.998 $\pm$ 0.011 χ^2 /NDF: 19677912.5/96

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.802 ± 46.841 χ^2/NDF : 16.3/23

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

Right Out: 53.398 ± 47.775 χ^2/NDF : 18.5/25

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

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

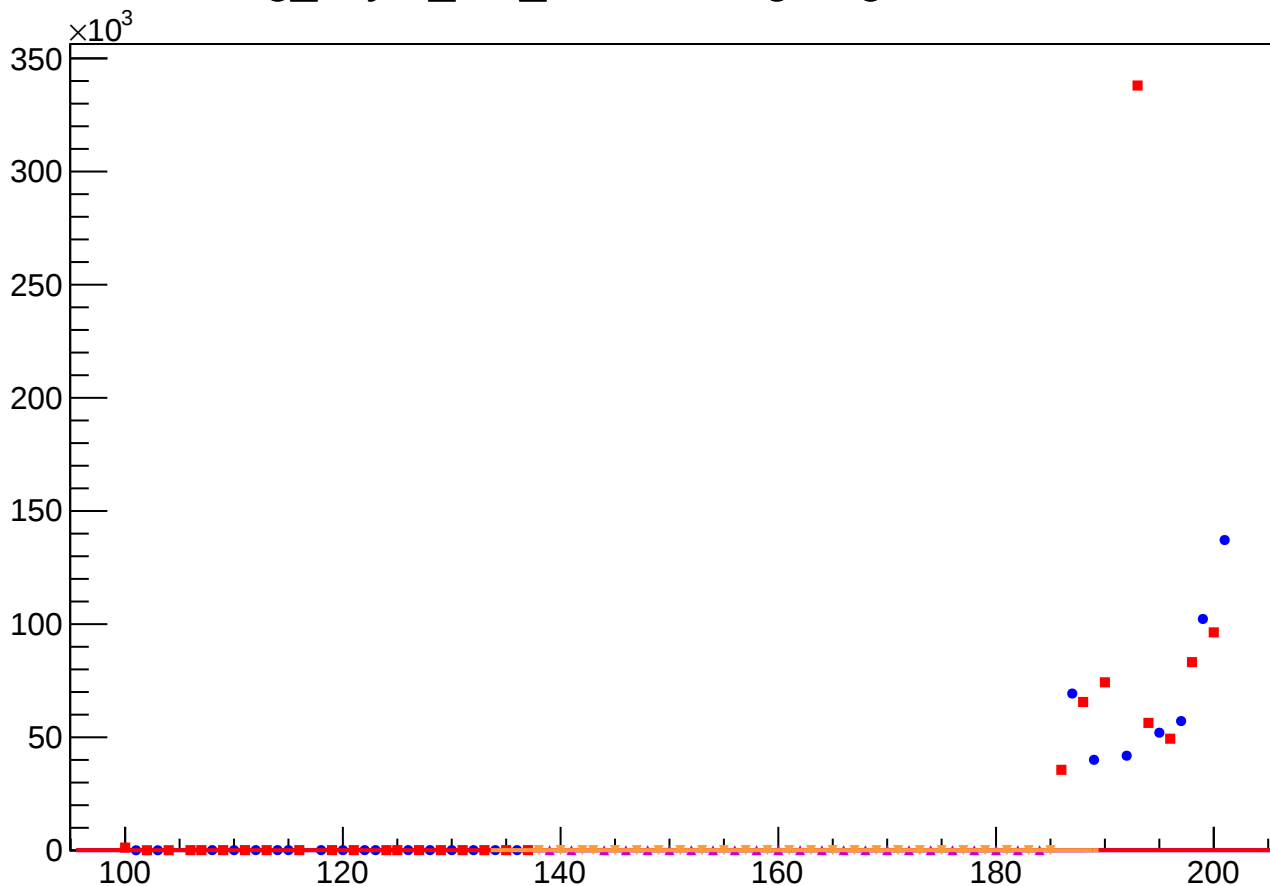
Right: 12.507 ± 33.447 χ^2/NDF : 36.3/49

In: -52.582 ± 26.947 χ^2/NDF : 36.1/46

Out: 7.737 ± 26.623 χ^2/NDF : 31.8/50

All: -22.058 ± 18.939 χ^2/NDF : 70.4/97

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.835 $\pm$ 0.033 χ^2 /NDF: 4190004.8/23

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

Right Out: 124.810 $\pm$ 0.034 χ^2 /NDF: 4628916.5/26

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

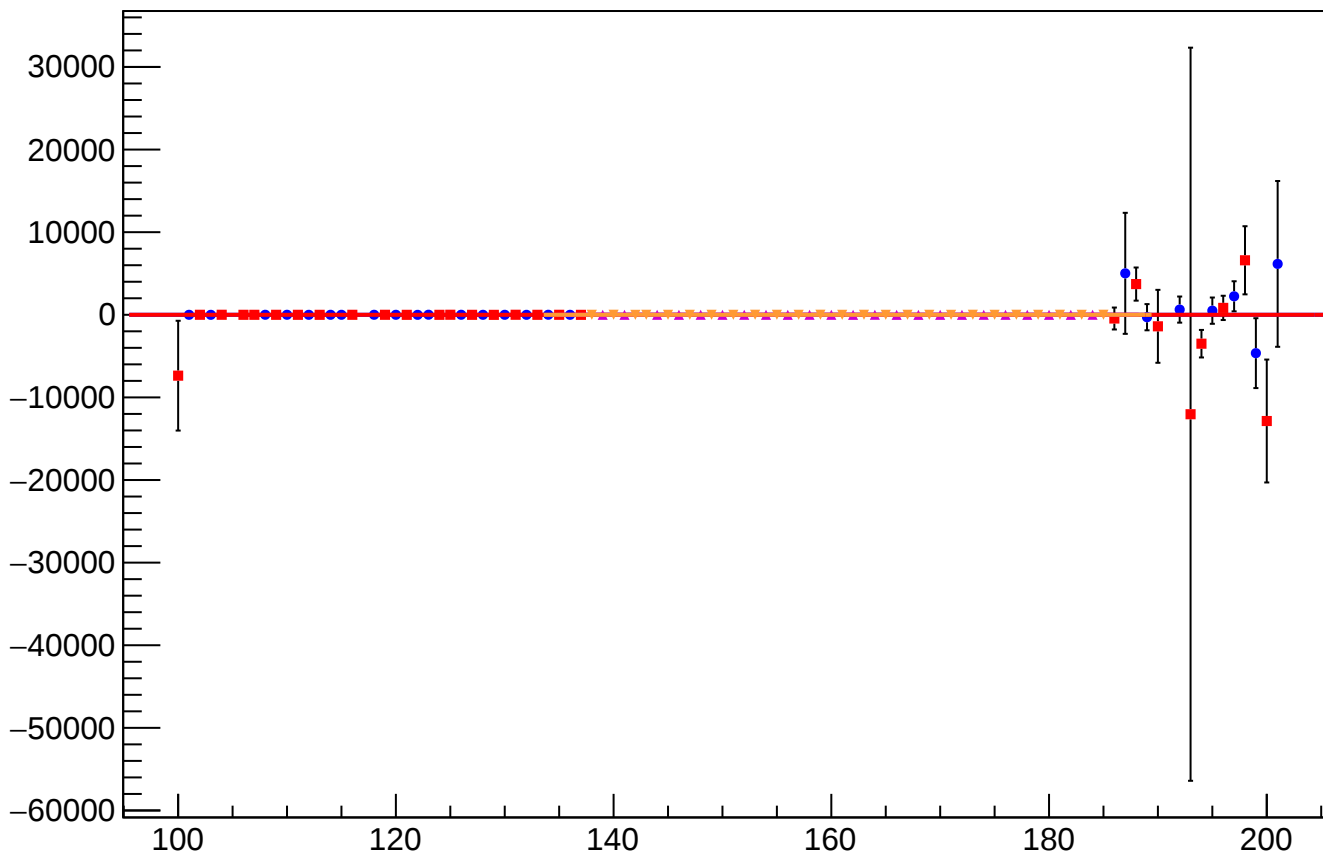
Right: 121.253 $\pm$ 0.024 χ^2 /NDF: 8840656.4/50

In: 131.196 $\pm$ 0.019 χ^2 /NDF: 4433672.8/46

Out: 133.805 $\pm$ 0.019 χ^2 /NDF: 4732198.5/51

All: 132.516 $\pm$ 0.013 χ^2 /NDF: 9175361.6/98

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 16.1/23

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

Right Out: -0.638 ± 0.852 χ^2/NDF : 28.7/26

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

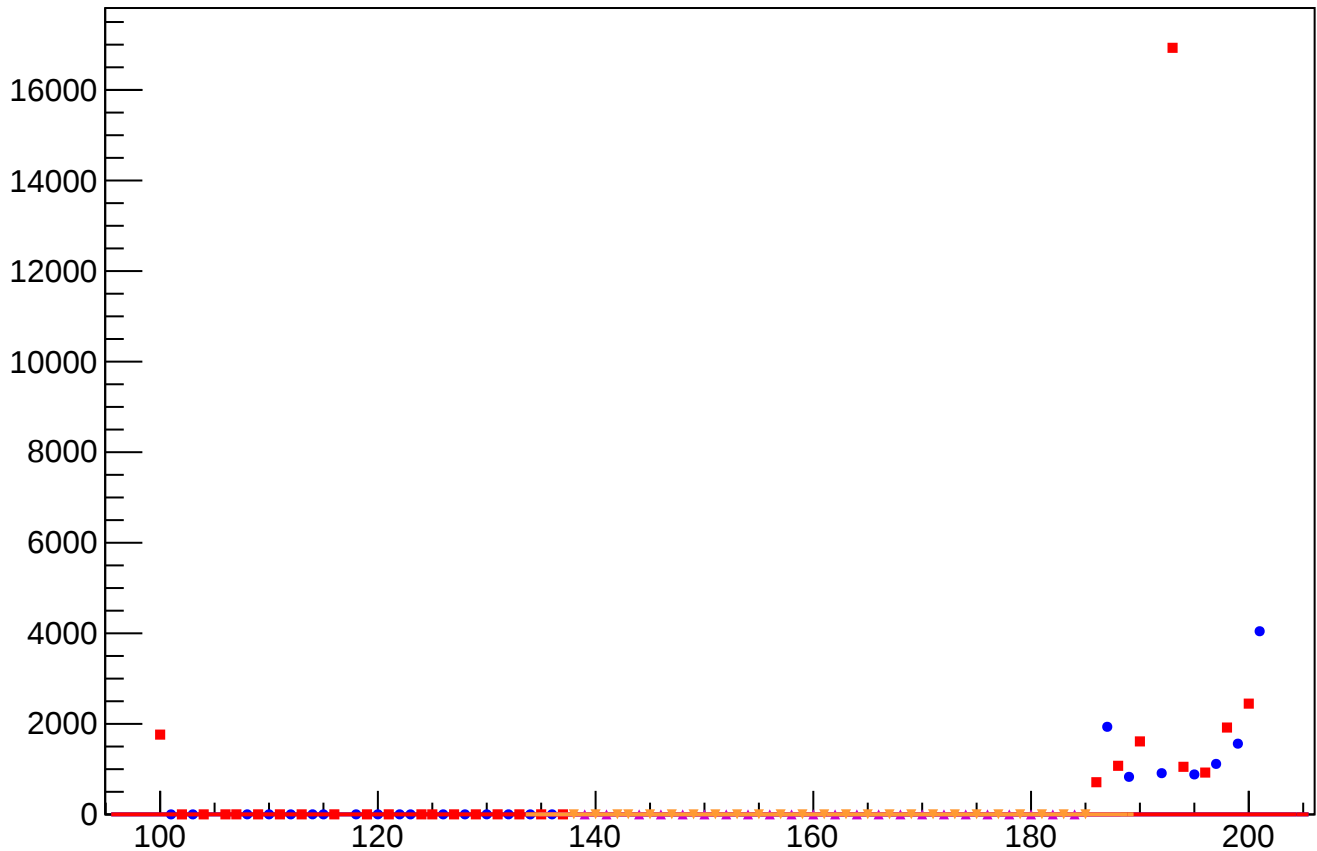
Right: -0.680 ± 0.587 χ^2/NDF : 44.8/50

In: -0.051 ± 0.471 χ^2/NDF : 37.8/46

Out: 0.139 ± 0.475 χ^2/NDF : 58.9/51

All: 0.043 ± 0.334 χ^2/NDF : 96.7/98

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.866+/-0.001 χ^2/NDF : 3800990.1/23

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

Right Out: 2.065+/-0.001 χ^2/NDF : 4461941.6/26

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

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

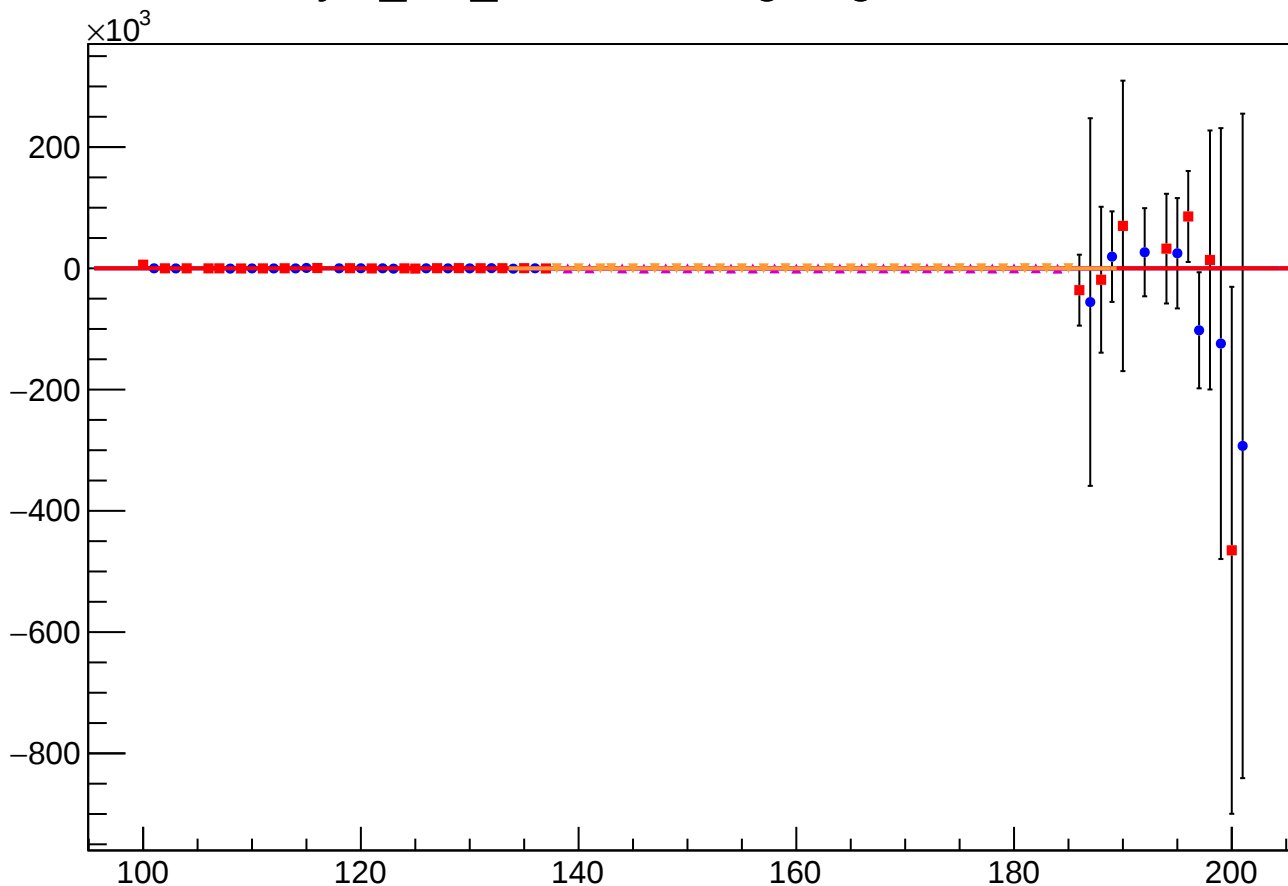
Right: 1.961+/-0.000 χ^2/NDF : 8319937.7/50

In: 2.082+/-0.000 χ^2/NDF : 4527087.6/46

Out: 2.201+/-0.000 χ^2/NDF : 4910649.9/51

All: 2.141+/-0.000 χ^2/NDF : 9500204.0/98

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.064 ± 46.854 χ^2/NDF : 16.3/23

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

Right Out: 54.300 ± 47.789 χ^2/NDF : 19.1/25

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

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

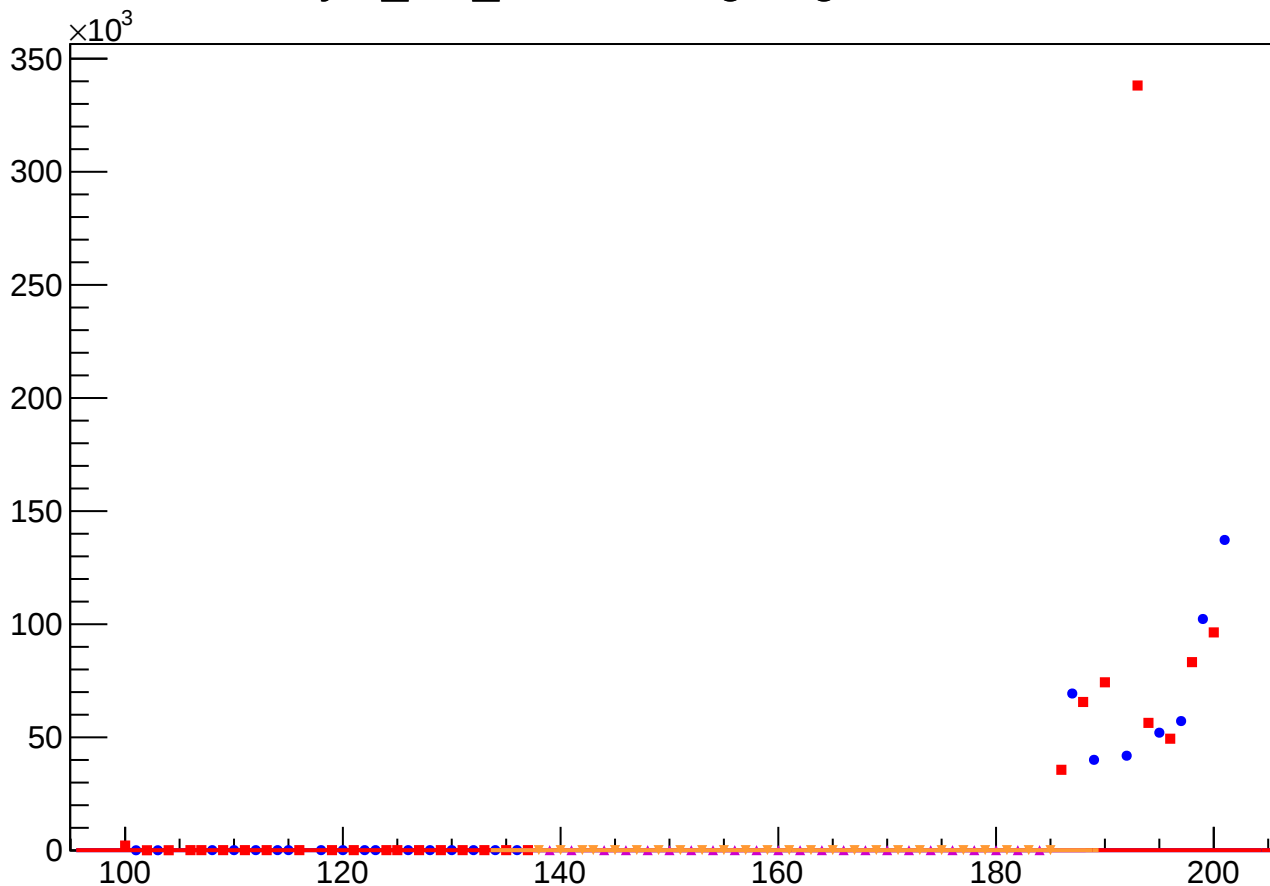
Right: 13.834 ± 33.456 χ^2/NDF : 36.9/49

In: -51.938 ± 26.954 χ^2/NDF : 36.2/46

Out: 7.635 ± 26.631 χ^2/NDF : 32.3/50

All: -21.792 ± 18.944 χ^2/NDF : 71.0/97

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.867 $\pm$ 0.033 χ^2 /NDF: 4190132.3/23

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

Right Out: 124.799 $\pm$ 0.034 χ^2 /NDF: 4639552.7/26

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

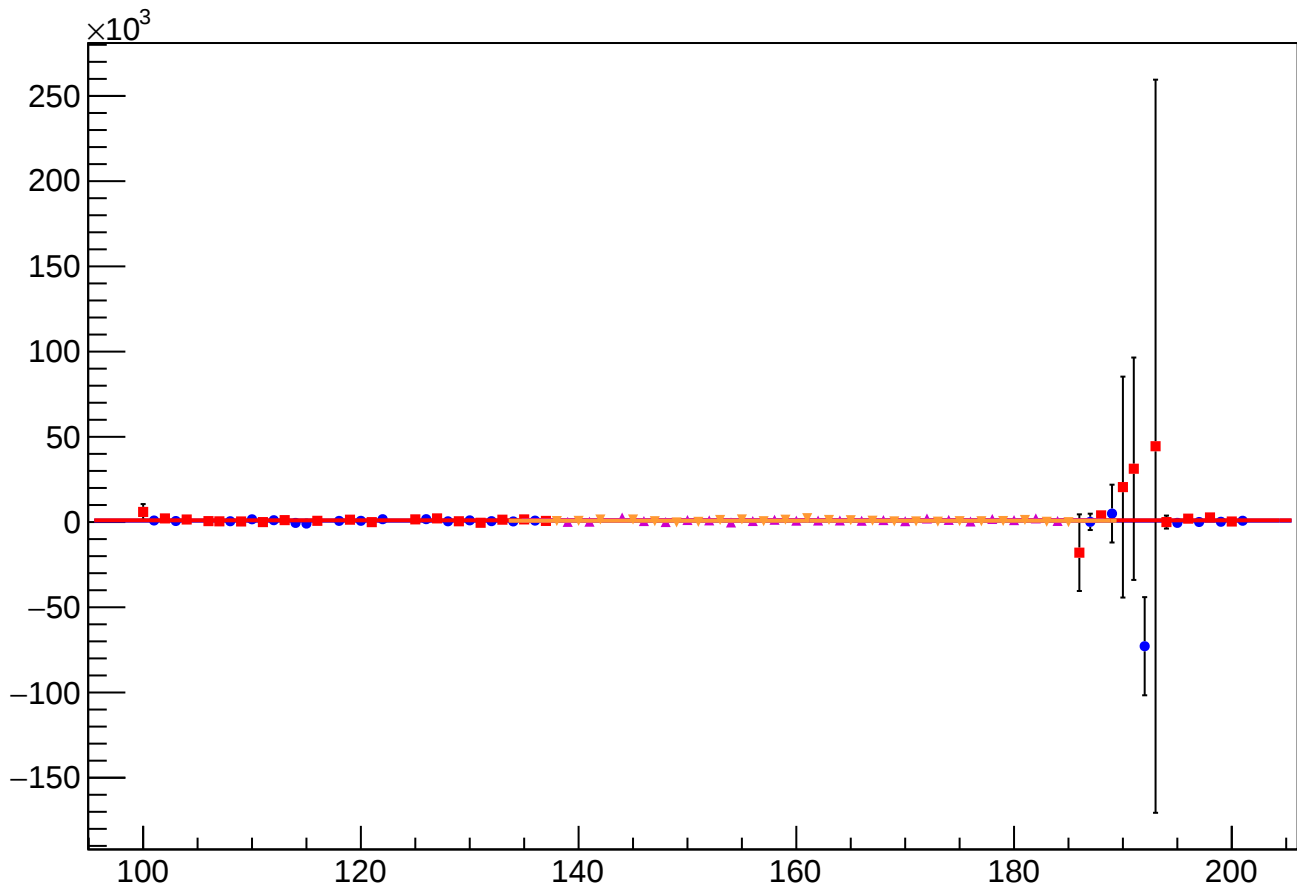
Right: 121.264 $\pm$ 0.024 χ^2 /NDF: 8851141.6/50

In: 131.232 $\pm$ 0.019 χ^2 /NDF: 4433835.7/46

Out: 133.828 $\pm$ 0.019 χ^2 /NDF: 4743556.4/51

All: 132.546 $\pm$ 0.013 χ^2 /NDF: 9186782.0/98

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 816.529 $\pm$ 212.615 χ^2 /NDF: 12.4/22

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

Right Out: 1026.459 $\pm$ 209.621 χ^2 /NDF: 17.1/26

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

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

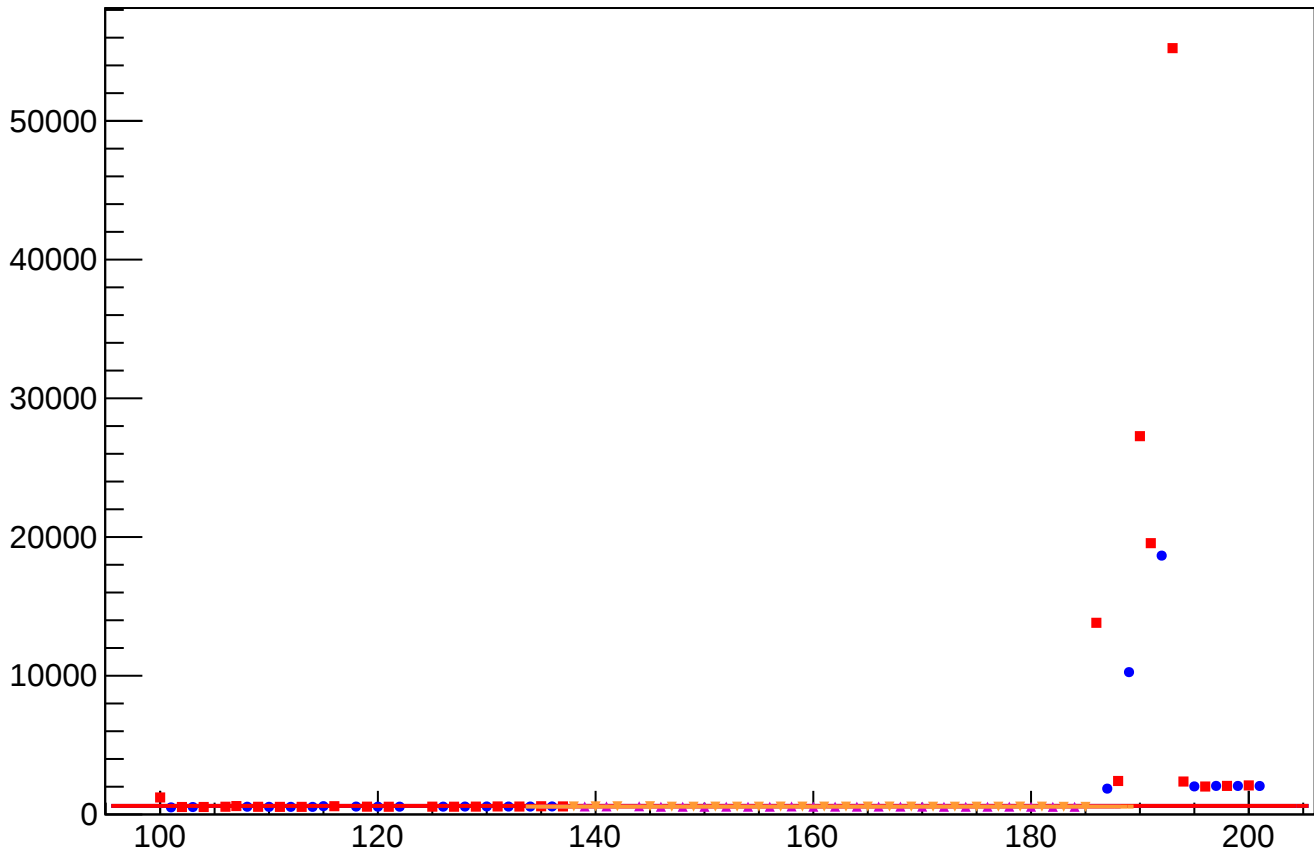
Right: 922.983 $\pm$ 149.272 χ^2 /NDF: 30.0/49

In: 929.074 $\pm$ 113.926 χ^2 /NDF:40.2/45

Out: 854.640 $\pm$ 112.935 χ^2 /NDF:37.2/50

All: 891.532 $\pm$ 80.205 χ^2 /NDF: 77.7/96

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 613.906+/-0.150 χ^2/NDF : 4896356.6/22

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

Right Out: 617.466+/-0.148 χ^2/NDF : 5132014.5/26

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

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

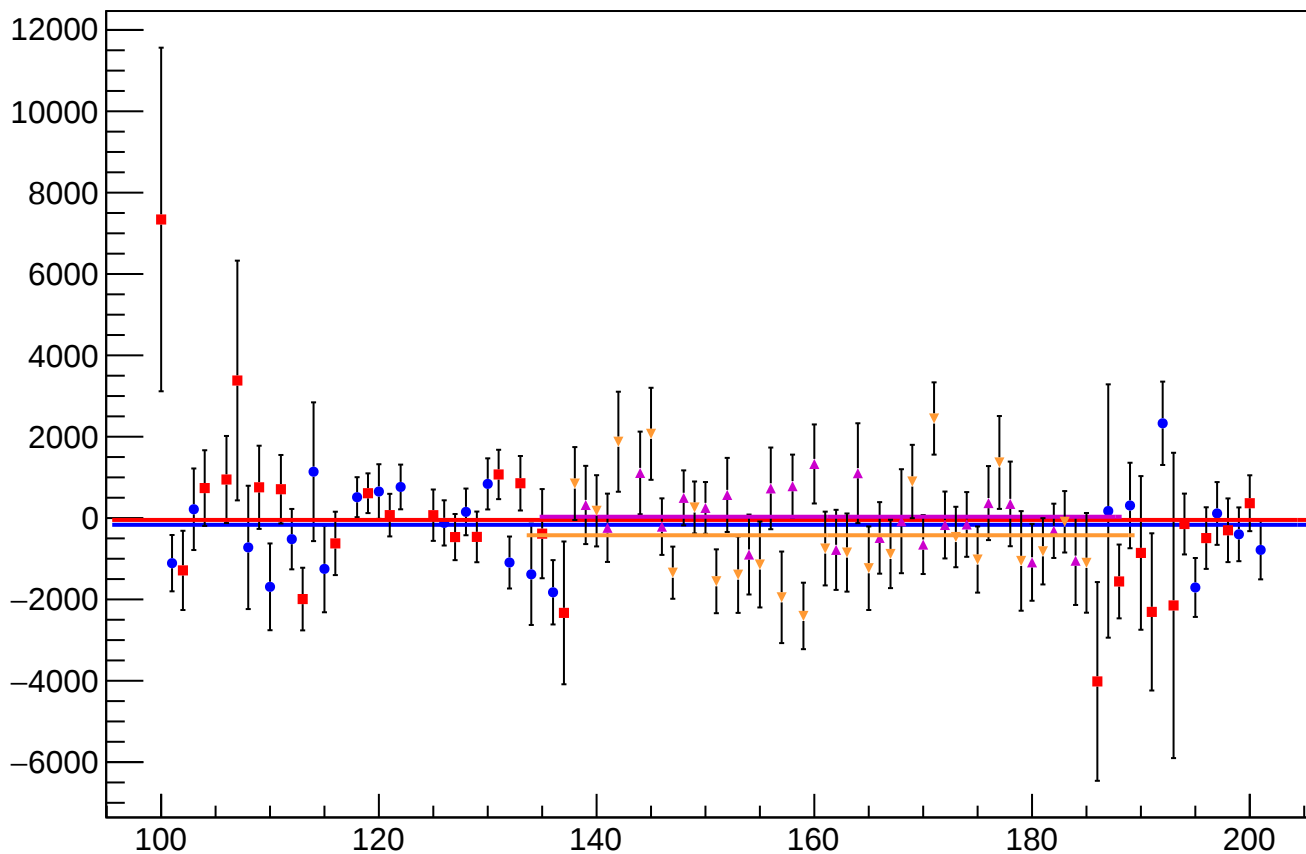
Right: 615.711+/-0.106 χ^2/NDF : 10028655.4/49

In: 578.602+/-0.081 χ^2/NDF : 4982919.4/45

Out: 579.621+/-0.080 χ^2/NDF : 5233458.6/50

All: 579.116+/-0.057 χ^2/NDF : 10216458.7/96

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -165.576 ± 157.448 χ^2/NDF : 34.3/22

Left Out: -422.681 ± 180.610 χ^2/NDF : 43.2/23

Right Out: -45.904 ± 157.371 χ^2/NDF : 34.0/26

Left In: 32.411 ± 179.430 χ^2/NDF : 12.2/22

Left: -193.644 ± 127.291 χ^2/NDF : 58.6/46

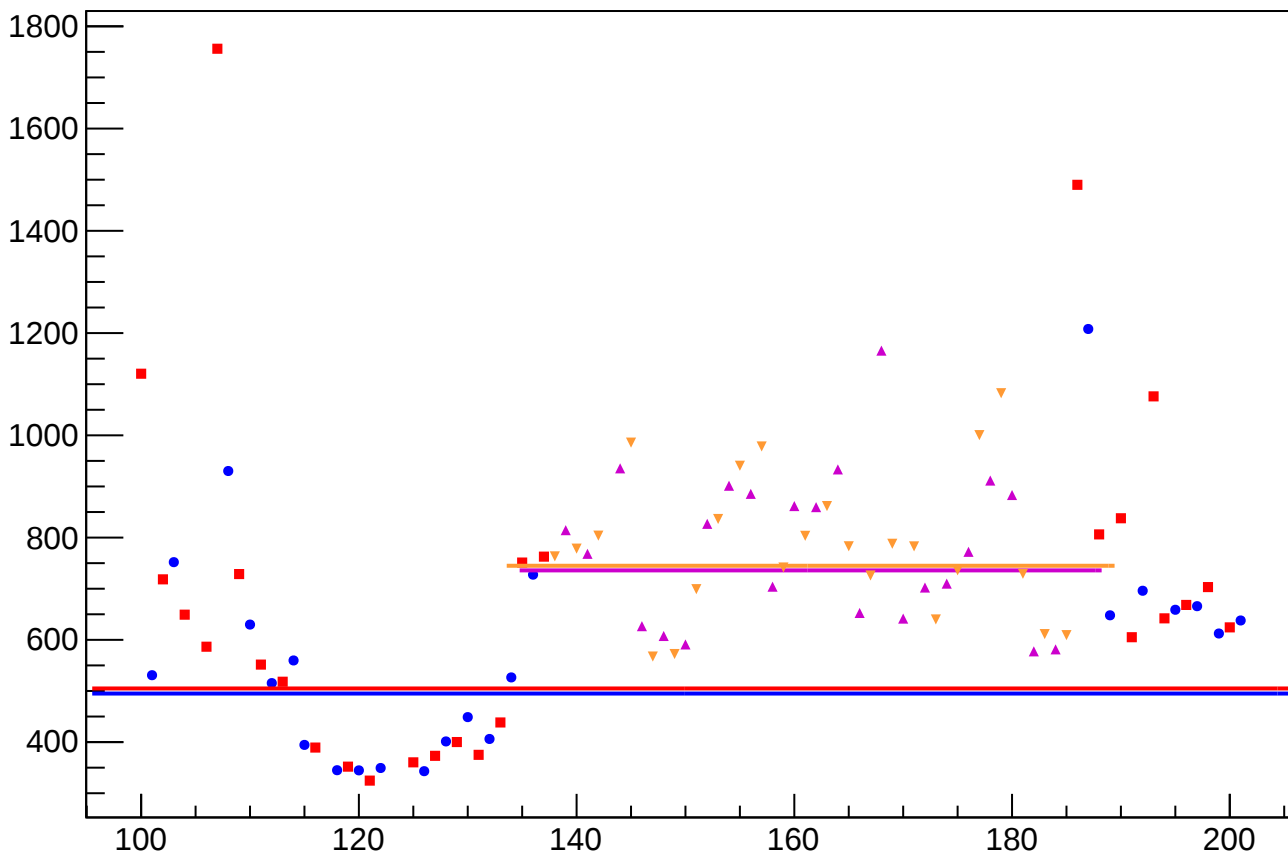
Right: -105.710 ± 111.305 χ^2/NDF : 68.5/49

In: -79.446 ± 118.346 χ^2/NDF : 47.1/45

Out: -208.508 ± 118.649 χ^2/NDF : 79.6/50

All: -143.812 ± 83.790 χ^2/NDF : 127.4/96

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 494.981+/-0.111 χ^2/NDF : 1774282.4/22

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

Right Out: 504.889+/-0.111 χ^2/NDF : 2671984.2/26

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

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

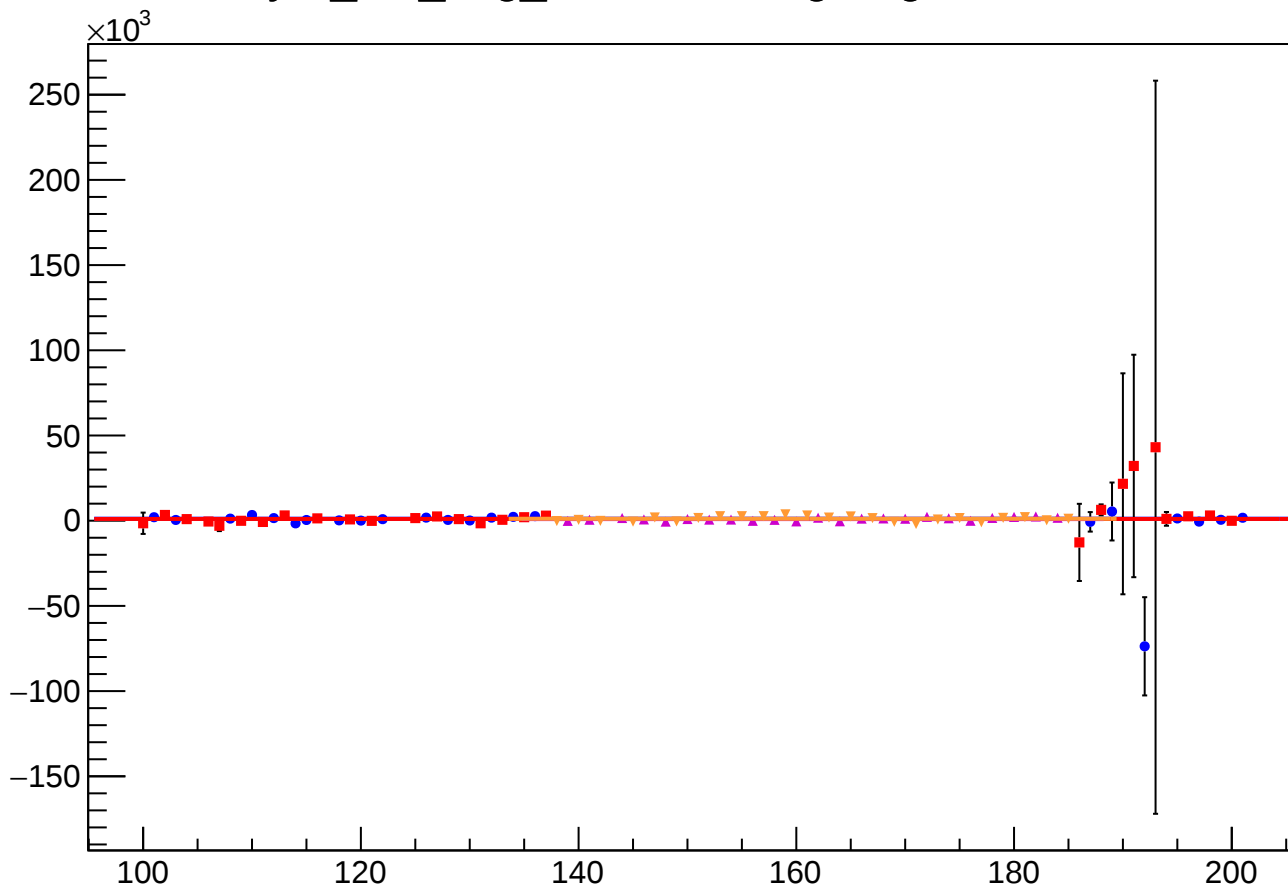
Right: 499.938+/-0.079 χ^2/NDF : 4450228.3/49

In: 599.765+/-0.084 χ^2/NDF : 4915923.2/45

Out: 608.474+/-0.084 χ^2/NDF : 5688641.4/50

All: 604.108+/-0.059 χ^2/NDF : 10609965.3/96

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1161.209 $\pm$ 287.019 χ^2 /NDF: 19.3/22

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

Right Out: 1023.844 $\pm$ 285.956 χ^2 /NDF: 28.0/26

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

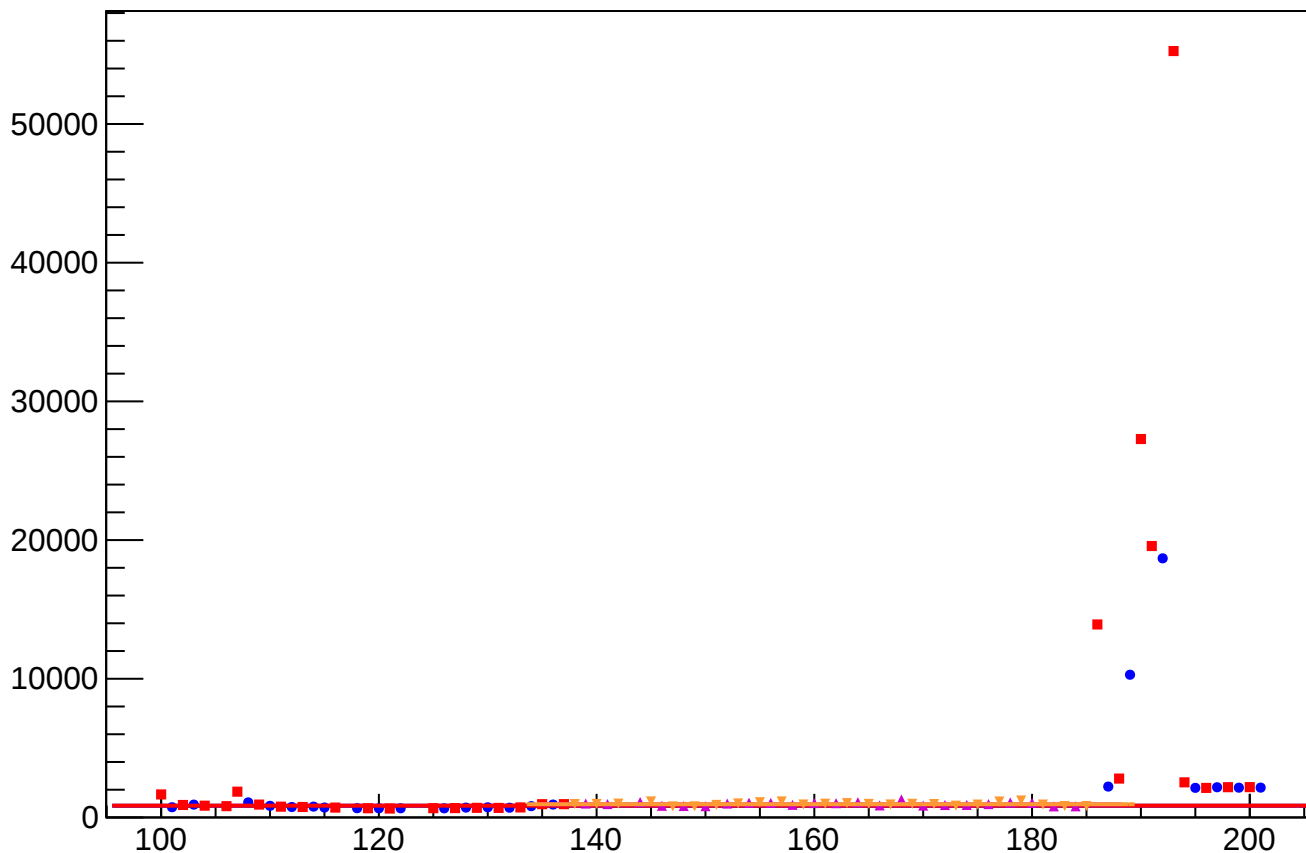
Right: 1092.272 $\pm$ 202.576 χ^2 /NDF: 47.3/49

In: 1026.775 $\pm$ 178.683 χ^2 /NDF:34.4/45

Out: 1093.396 $\pm$ 178.668 χ^2 /NDF:67.0/50

All: 1060.088 $\pm$ 126.343 χ^2 /NDF: 101.4/96

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 842.385+/-0.203 χ^2/NDF : 4326585.3/22

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

Right Out: 849.767+/-0.202 χ^2/NDF : 4871469.9/26

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

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

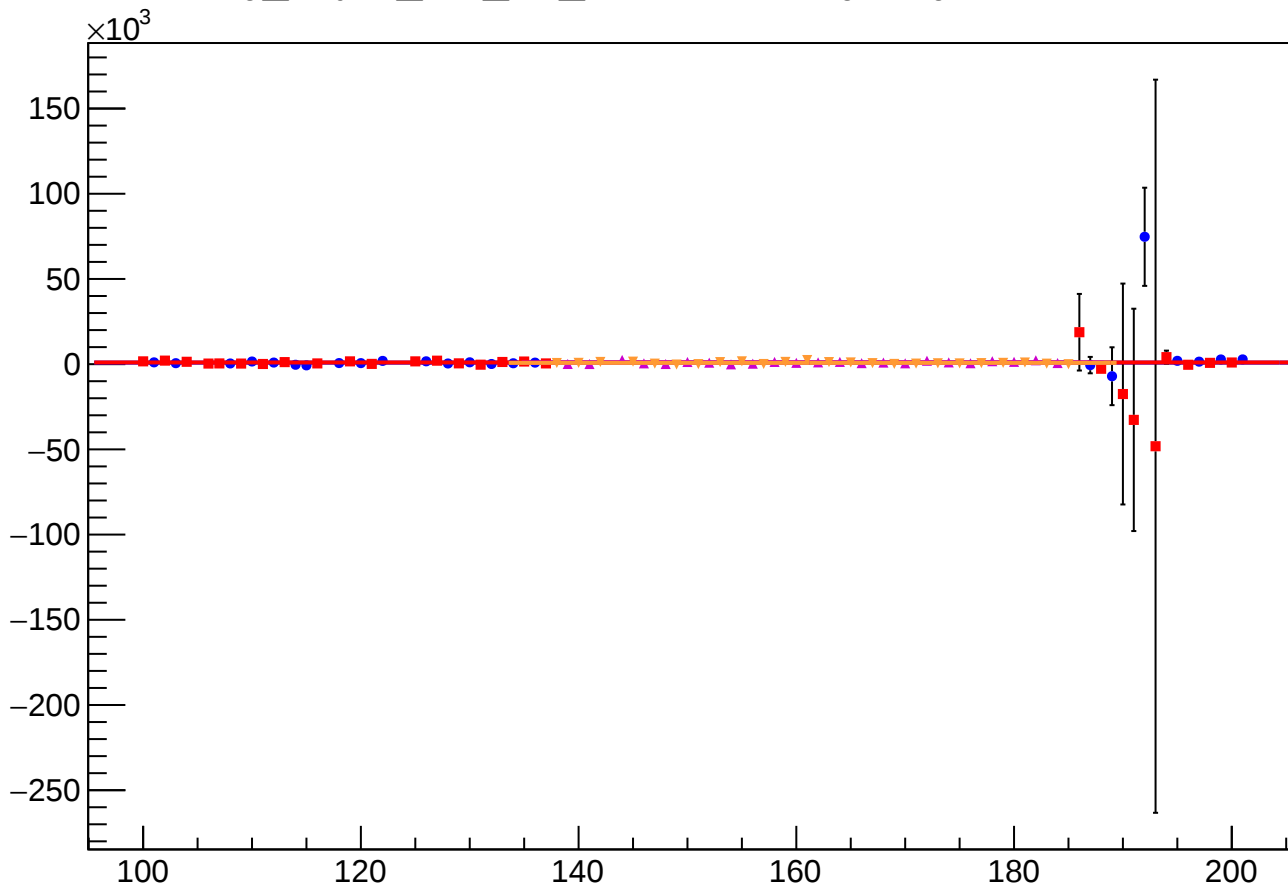
Right: 846.090+/-0.143 χ^2/NDF : 9198719.1/49

In: 906.194+/-0.126 χ^2/NDF : 4989350.8/45

Out: 913.512+/-0.126 χ^2/NDF : 5494647.1/50

All: 909.853+/-0.089 χ^2/NDF : 10485675.6/96

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 894.472 ± 212.468 χ^2/NDF : 14.7/22

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

Right Out: 999.992 ± 204.845 χ^2/NDF : 16.1/26

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

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

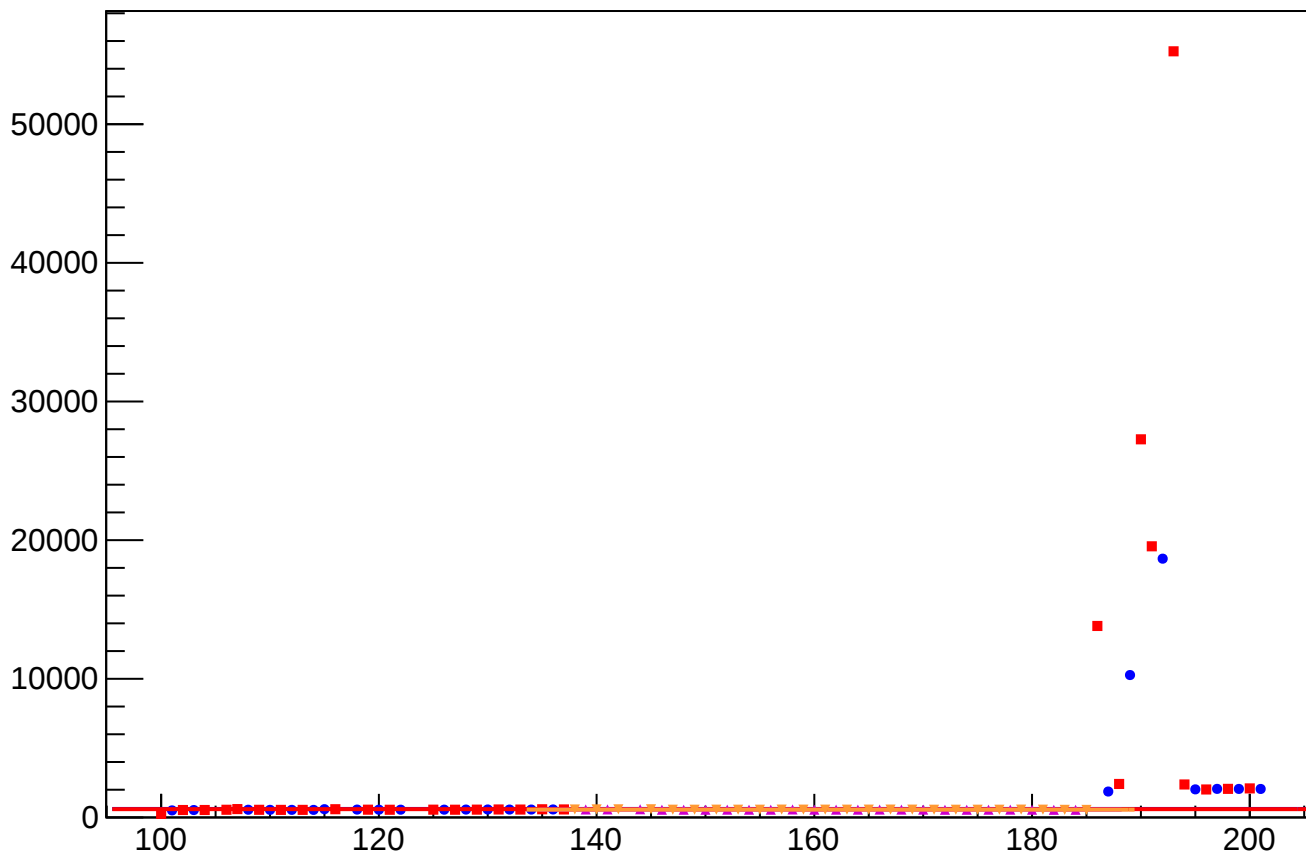
Right: 949.159 ± 147.469 χ^2/NDF : 30.9/49

In: 940.131 ± 113.839 χ^2/NDF : 41.6/45

Out: 830.225 ± 112.104 χ^2/NDF : 38.1/50

All: 884.334 ± 79.876 χ^2/NDF : 80.2/96

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 613.356+/-0.150 χ^2/NDF : 4903596.2/22

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

Right Out: 599.170+/-0.145 χ^2/NDF : 5375313.8/26

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

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

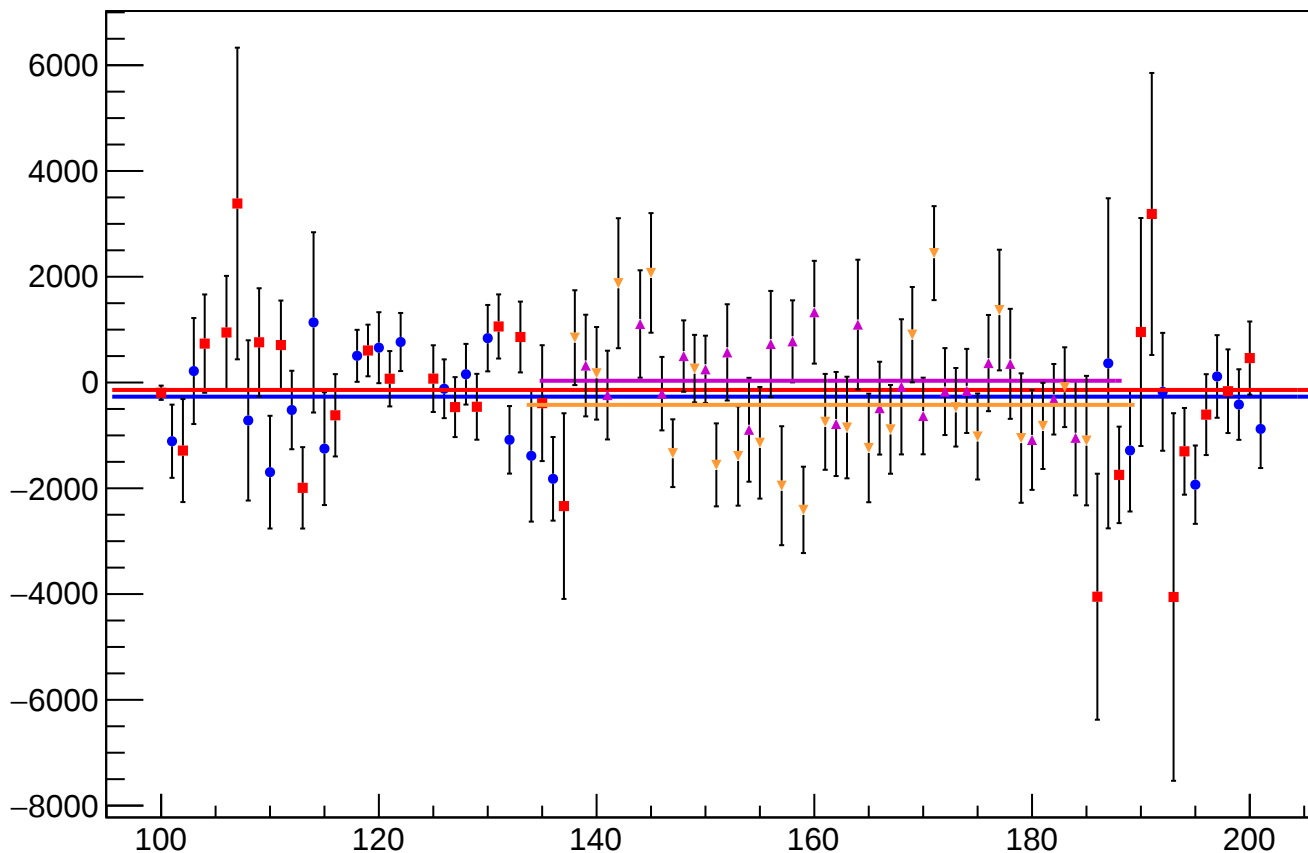
Right: 606.004+/-0.104 χ^2/NDF : 10283531.3/49

In: 578.122+/-0.080 χ^2/NDF : 4989950.3/45

Out: 574.305+/-0.079 χ^2/NDF : 5426921.9/50

All: 576.184+/-0.056 χ^2/NDF : 10418013.5/96

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -267.503 ± 158.471 χ^2/NDF : 30.0/22

Left Out: -422.324 ± 180.531 χ^2/NDF : 43.3/23

Right Out: -140.411 ± 102.771 χ^2/NDF : 36.0/26

Left In: 33.325 ± 179.355 χ^2/NDF : 12.1/22

Left: -193.010 ± 127.237 χ^2/NDF : 58.6/46

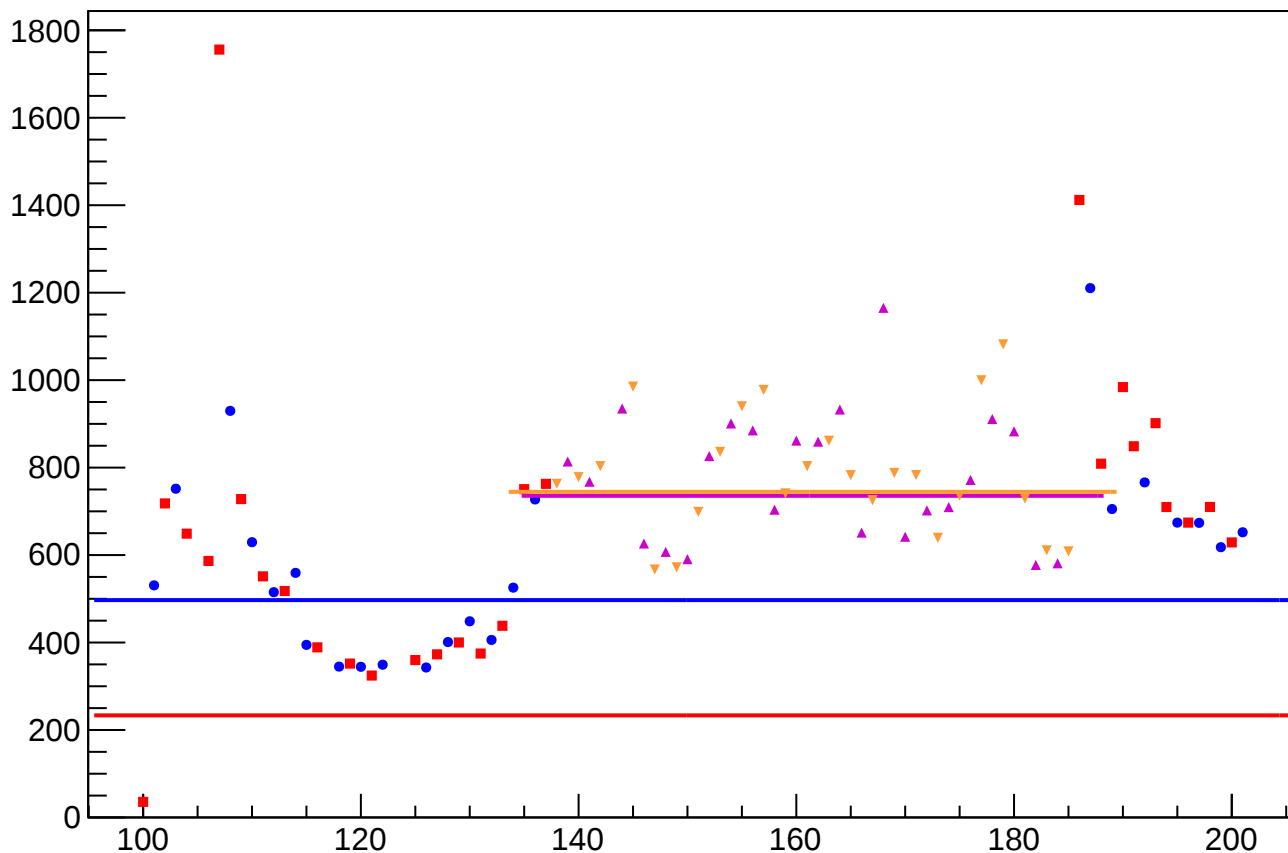
Right: -178.037 ± 86.226 χ^2/NDF : 66.5/49

In: -135.615 ± 118.756 χ^2/NDF : 43.7/45

Out: -209.409 ± 89.313 χ^2/NDF : 81.1/50

All: -182.749 ± 71.379 χ^2/NDF : 125.0/96

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 497.004+/-0.112 χ^2/NDF : 1879483.5/22

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

Right Out: 233.438+/-0.073 χ^2/NDF : 12948406.3/26

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

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

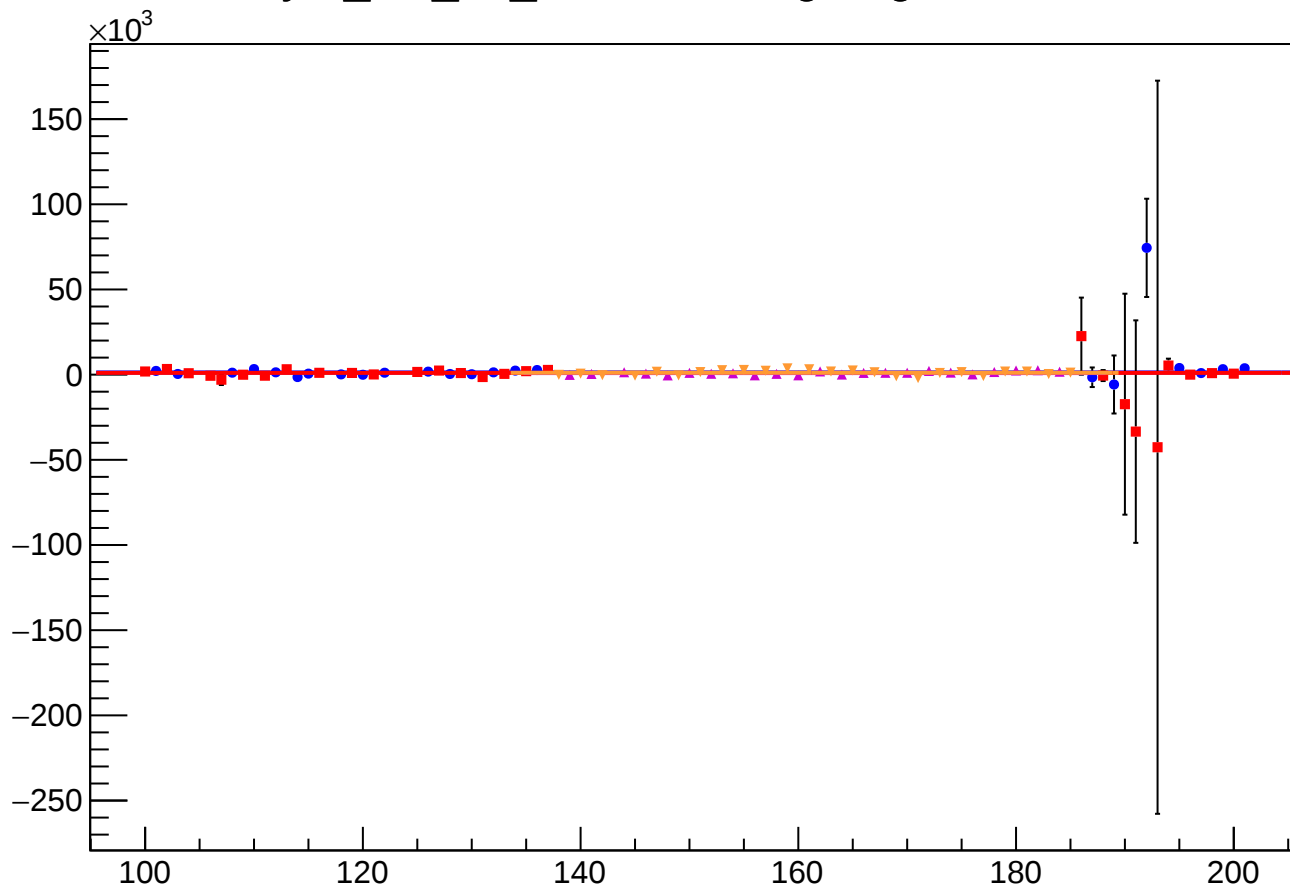
Right: 311.469+/-0.061 χ^2/NDF : 18722332.9/49

In: 601.583+/-0.084 χ^2/NDF : 4971421.5/45

Out: 358.544+/-0.063 χ^2/NDF : 26067535.0/50

All: 446.347+/-0.050 χ^2/NDF : 36389332.8/96

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1289.303 $\pm$ 286.884 χ^2 /NDF: 21.6/22

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

Right Out: 1036.758 $\pm$ 274.397 χ^2 /NDF: 25.3/26

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

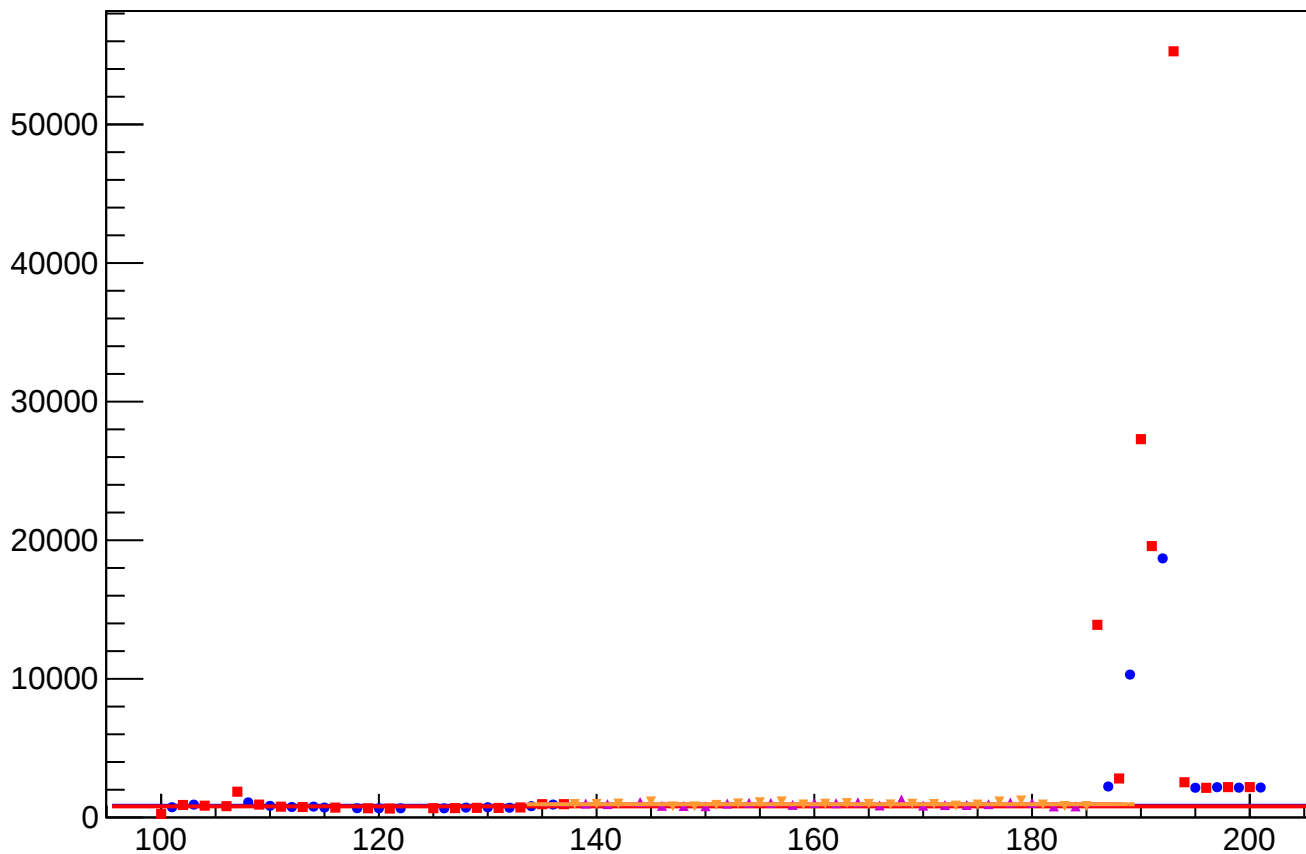
Right: 1157.415 $\pm$ 198.296 χ^2 /NDF: 47.3/49

In: 1066.959 $\pm$ 178.589 χ^2 /NDF:37.7/45

Out: 1077.112 $\pm$ 175.681 χ^2 /NDF:63.6/50

All: 1072.119 $\pm$ 125.241 χ^2 /NDF: 101.3/96

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 841.703 $\pm$ 0.203 χ^2 /NDF: 4338631.1/22

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

Right Out: 800.046 $\pm$ 0.194 χ^2 /NDF: 5532787.4/26

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

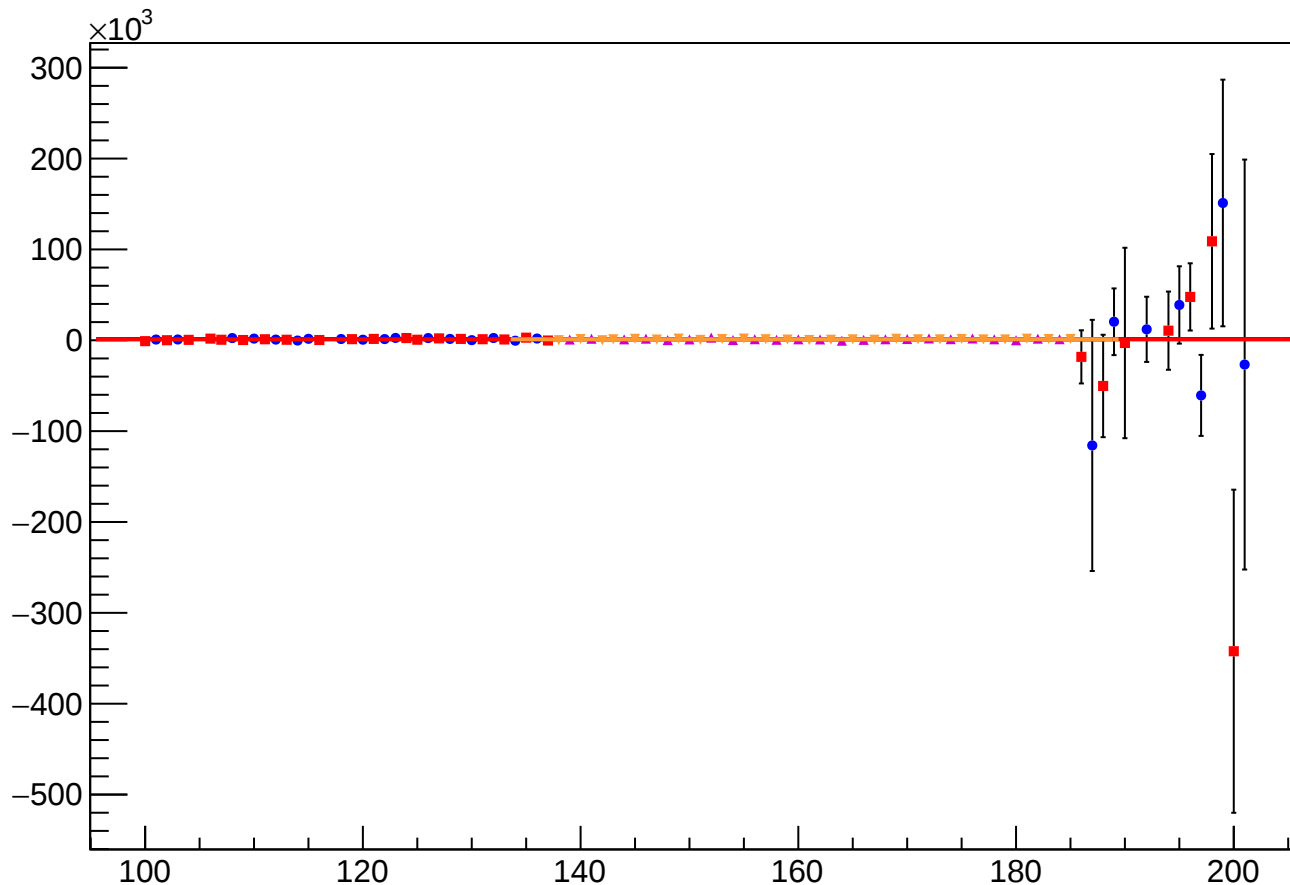
Right: 819.948 $\pm$ 0.140 χ^2 /NDF: 9893440.5/49

In: 905.608 $\pm$ 0.126 χ^2 /NDF: 5002103.4/45

Out: 890.763 $\pm$ 0.124 χ^2 /NDF: 6363452.1/50

All: 898.064 $\pm$ 0.089 χ^2 /NDF: 11372577.9/96

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1324.696 $\pm$ 218.586 χ^2 /NDF: 17.8/23

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

Right Out: 1040.548 $\pm$ 212.065 χ^2 /NDF: 21.4/25

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

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

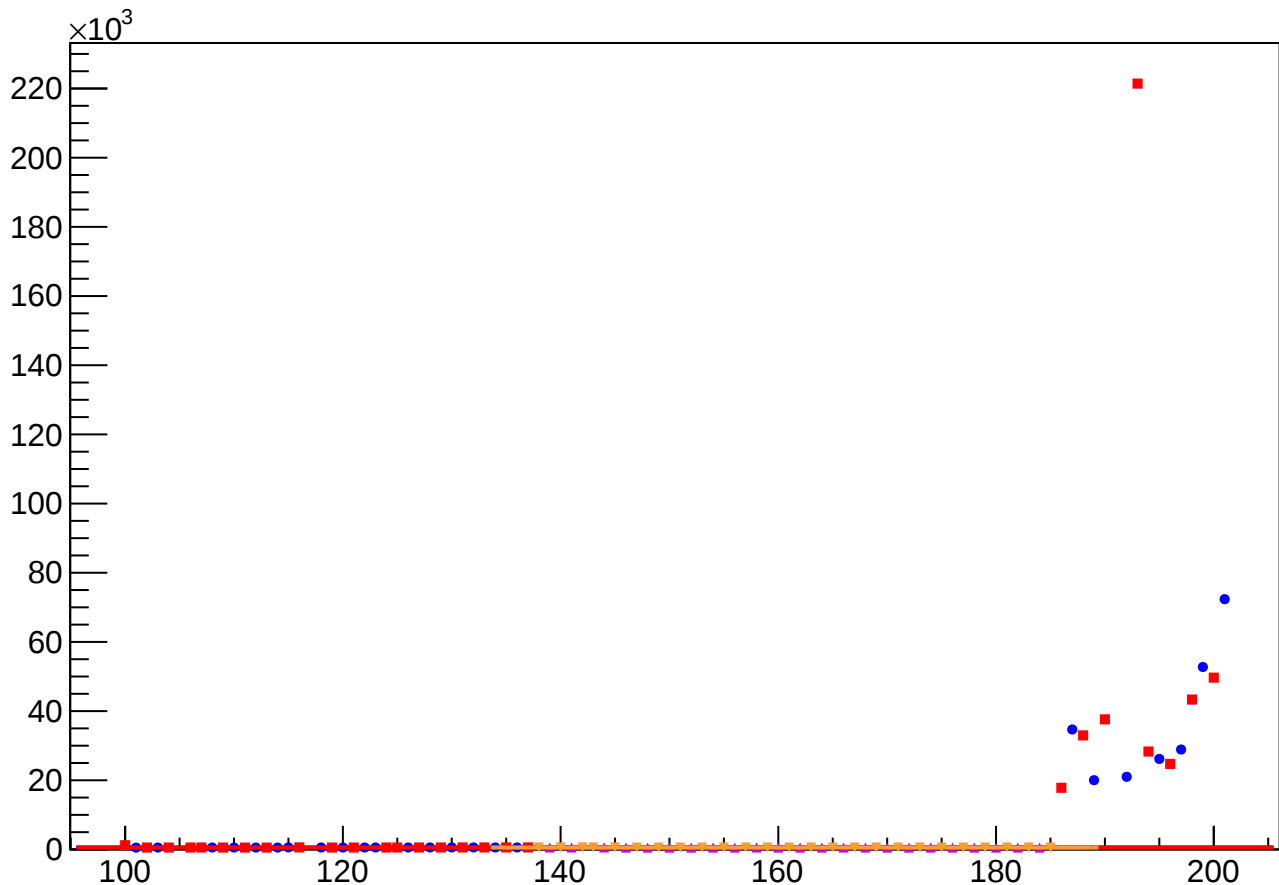
Right: 1178.321 $\pm$ 152.206 χ^2 /NDF: 40.1/49

In: 1178.219 $\pm$ 113.722 χ^2 /NDF:48.4/46

Out: 1064.622 $\pm$ 110.640 χ^2 /NDF:36.5/50

All: 1119.860 $\pm$ 79.302 χ^2 /NDF: 85.5/97

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 566.669 $\pm$ 0.155 χ^2 /NDF: 3481462.2/23

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

Right Out: 568.652 $\pm$ 0.150 χ^2 /NDF: 4083116.8/26

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

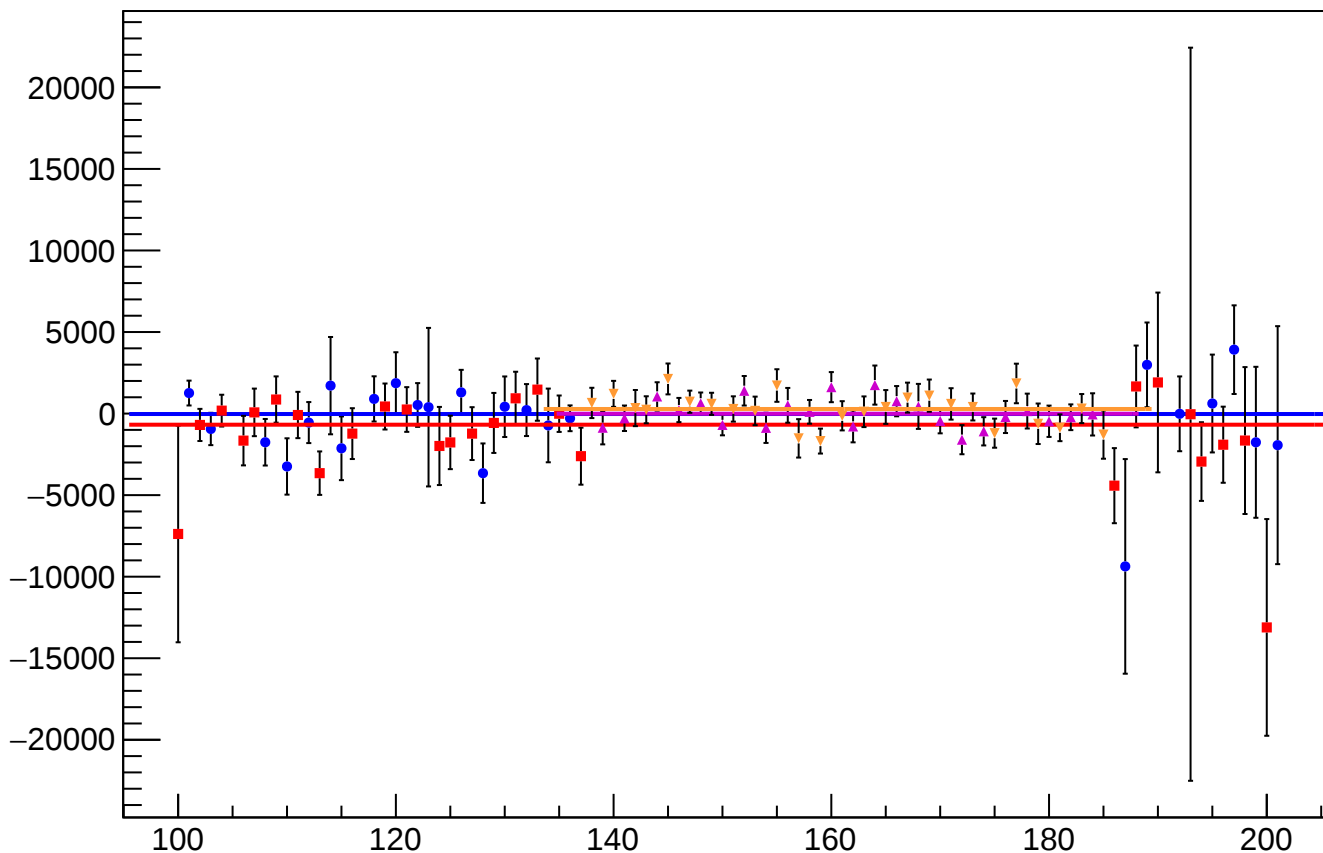
Right: 567.690 $\pm$ 0.108 χ^2 /NDF: 7564663.8/50

In: 559.594 $\pm$ 0.080 χ^2 /NDF:3495544.1/46

Out: 560.560 $\pm$ 0.078 χ^2 /NDF:4101870.4/51

All: 560.091 $\pm$ 0.056 χ^2 /NDF: 7597488.6/98

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -26.993 ± 316.965 χ^2/NDF : 22.8/23

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

Right Out: -681.556 ± 318.959 χ^2/NDF : 23.2/26

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

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

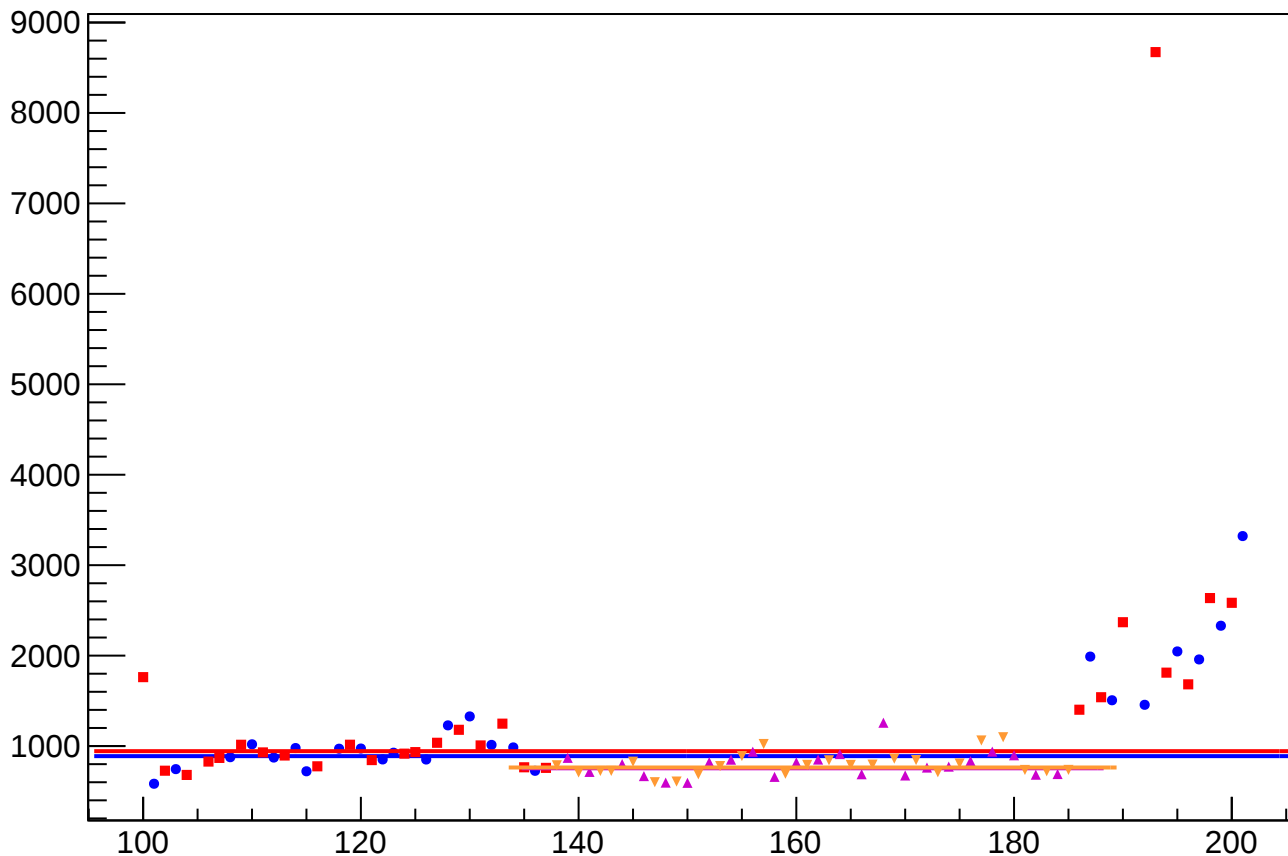
Right: -352.221 ± 224.830 χ^2/NDF : 48.1/50

In: -12.921 ± 158.730 χ^2/NDF : 43.0/46

Out: 48.330 ± 157.040 χ^2/NDF : 56.8/51

All: 18.032 ± 111.637 χ^2/NDF : 99.9/98

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 888.568 $\pm$ 0.224 χ^2/NDF : 2003604.5/23

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

Right Out: 943.630 $\pm$ 0.226 χ^2/NDF : 1931360.4/26

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

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

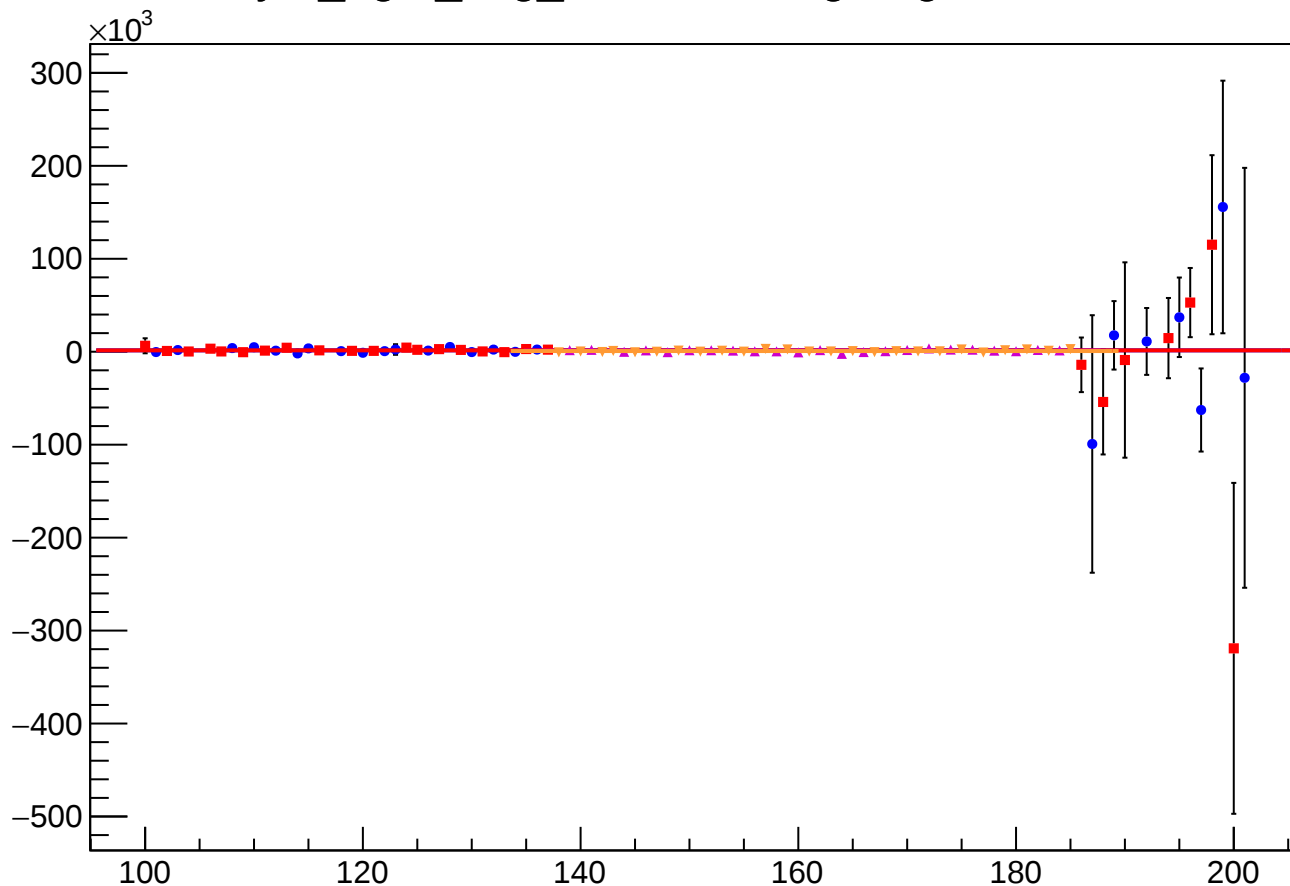
Right: 915.926 $\pm$ 0.159 χ^2/NDF : 3964953.4/50

In: 787.821 $\pm$ 0.112 χ^2/NDF : 3205122.6/46

Out: 806.851 $\pm$ 0.111 χ^2/NDF : 3170537.9/51

All: 797.438 $\pm$ 0.079 χ^2/NDF : 6390186.9/98

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1499.451 $\pm$ 402.579 χ^2 /NDF: 22.0/23

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

Right Out: 1489.340 $\pm$ 400.623 χ^2 /NDF: 19.9/25

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

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

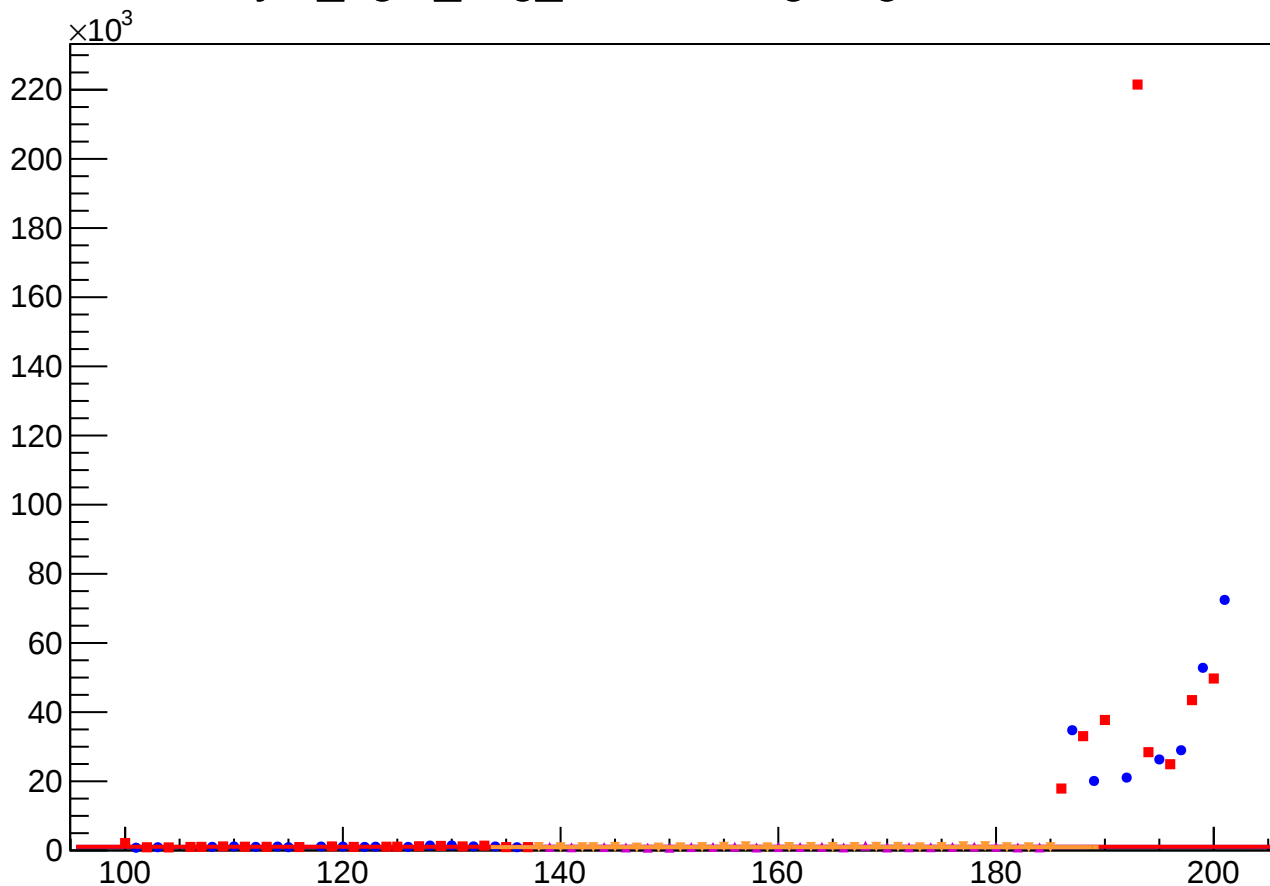
Right: 1494.371 $\pm$ 283.972 χ^2 /NDF: 41.9/49

In: 1216.873 $\pm$ 199.748 χ^2 /NDF:48.0/46

Out: 920.060 $\pm$ 196.532 χ^2 /NDF:44.1/50

All: 1066.058 $\pm$ 140.092 χ^2 /NDF: 93.2/97

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1032.454+/-0.285 χ^2/NDF : 3688140.1/23

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

Right Out: 1069.493+/-0.283 χ^2/NDF : 4127304.2/26

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

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

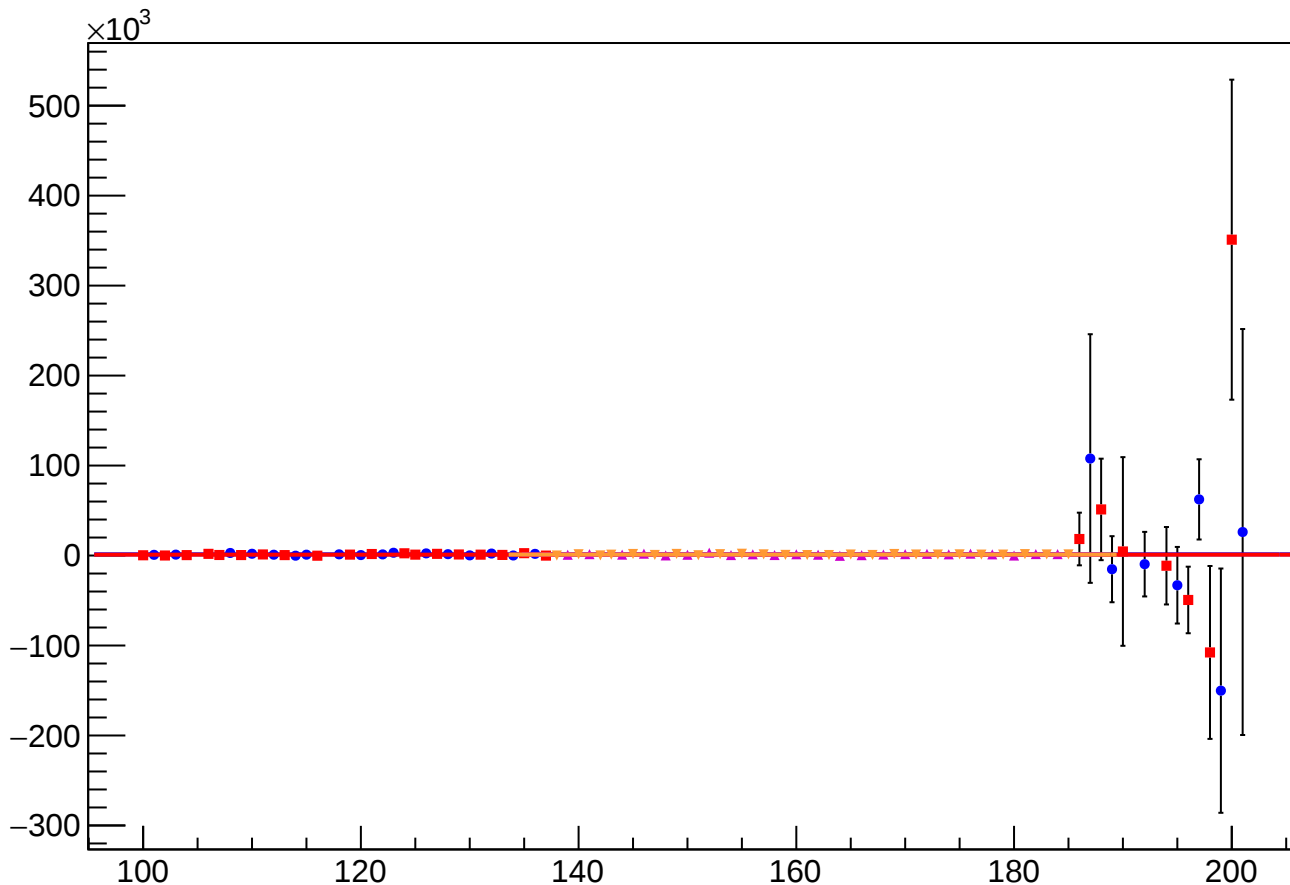
Right: 1051.064+/-0.201 χ^2/NDF : 7823950.2/50

In: 973.799+/-0.141 χ^2/NDF : 4187856.7/46

Out: 988.063+/-0.139 χ^2/NDF : 4599057.9/51

All: 981.047+/-0.099 χ^2/NDF : 8792096.5/98

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.866+/-218.840 χ^2/NDF : 16.7/23

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

Right Out: 965.104+/-208.600 χ^2/NDF : 20.5/25

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

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

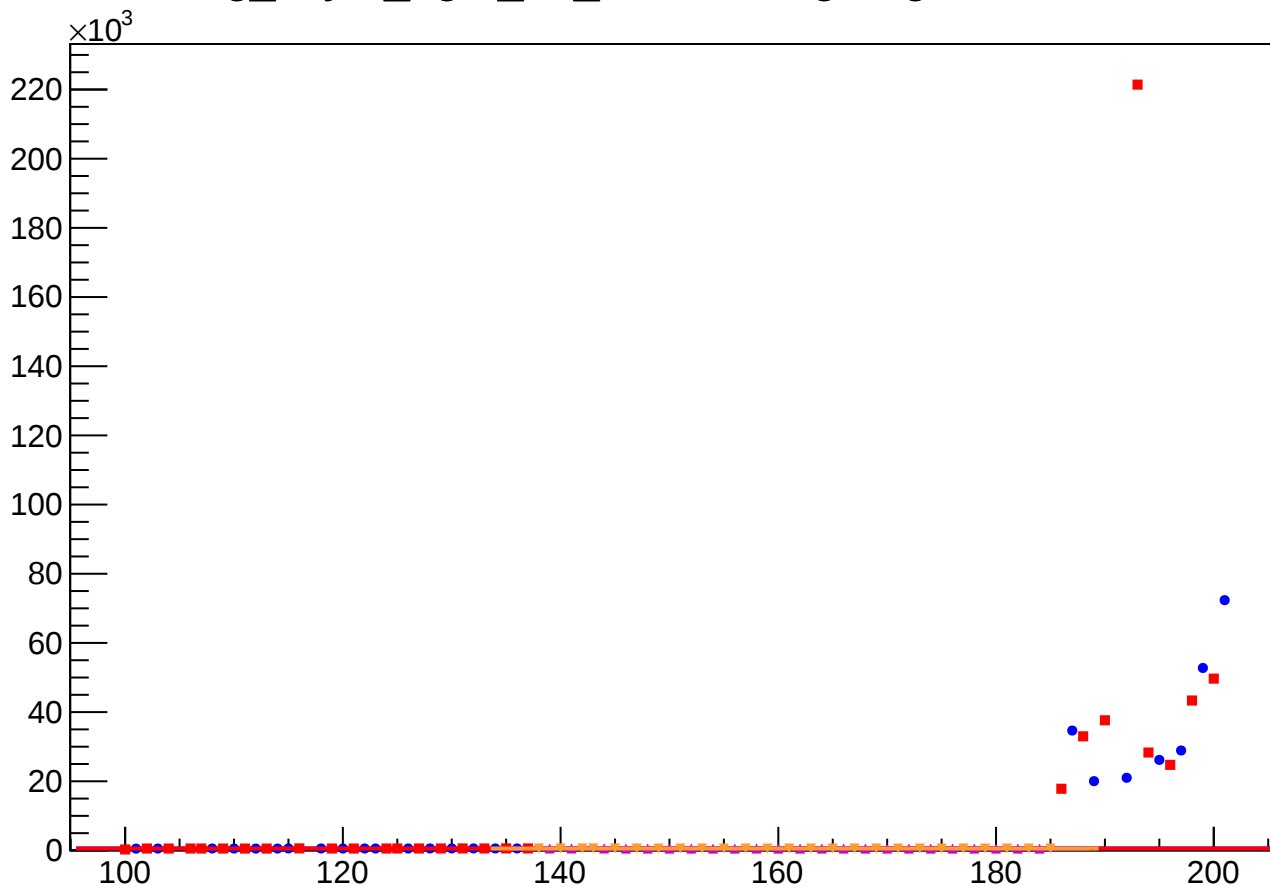
Right: 1145.892+/-150.993 χ^2/NDF : 38.7/49

In: 1231.538+/-113.852 χ^2/NDF :49.2/46

Out: 1053.421+/-110.220 χ^2/NDF :35.6/50

All: 1139.593+/-79.190 χ^2/NDF : 86.1/97

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 567.328 $\pm$ 0.155 χ^2 /NDF: 3481545.9/23

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

Right Out: 557.680 $\pm$ 0.148 χ^2 /NDF: 4169638.0/26

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

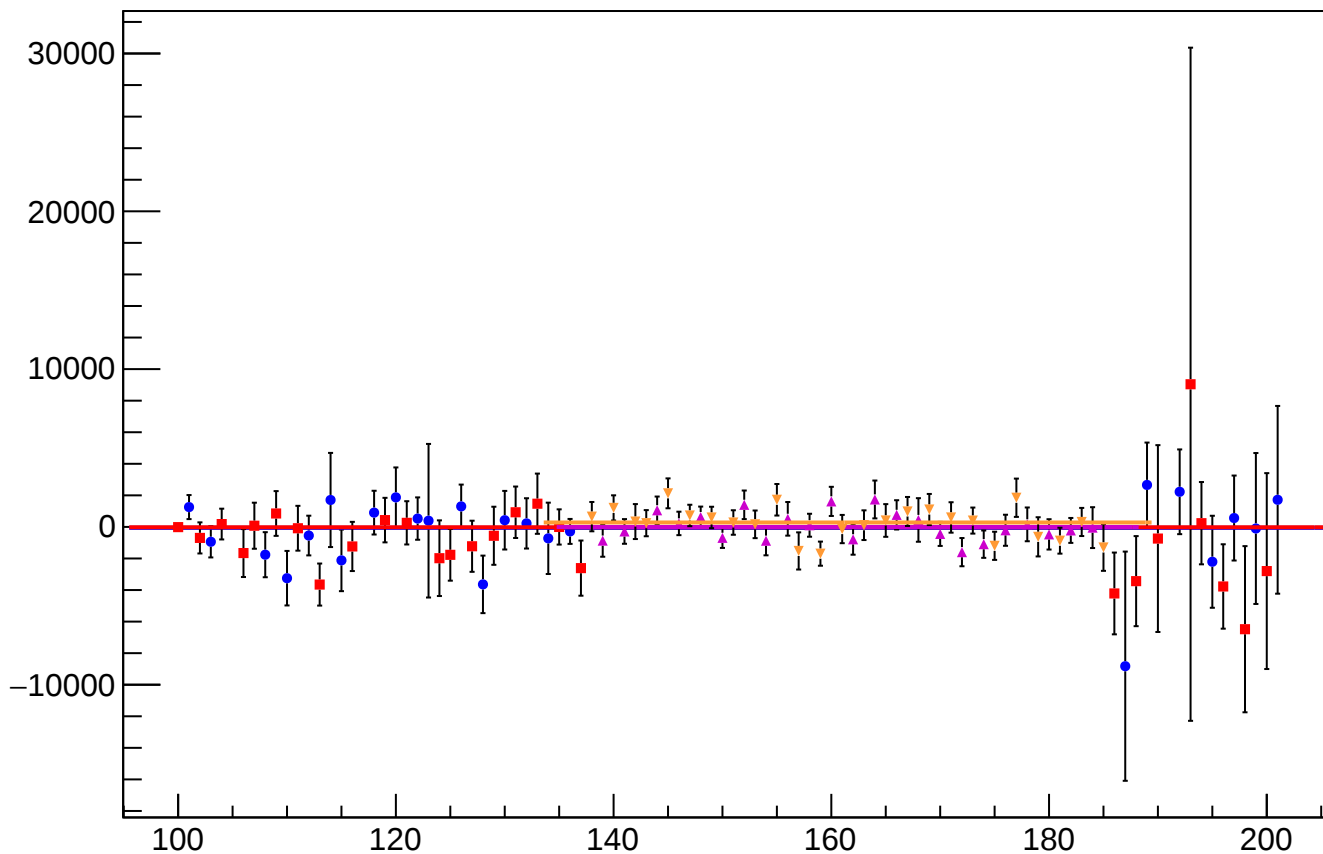
Right: 562.273 $\pm$ 0.107 χ^2 /NDF: 7653220.6/50

In: 560.230 $\pm$ 0.081 χ^2 /NDF:3495707.2/46

Out: 557.982 $\pm$ 0.078 χ^2 /NDF:4184429.0/51

All: 559.070 $\pm$ 0.056 χ^2 /NDF: 7680538.8/98

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -58.453+/-317.847 χ^2/NDF : 20.9/23

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

Right Out: -22.865+/-38.936 χ^2/NDF : 23.8/26

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

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

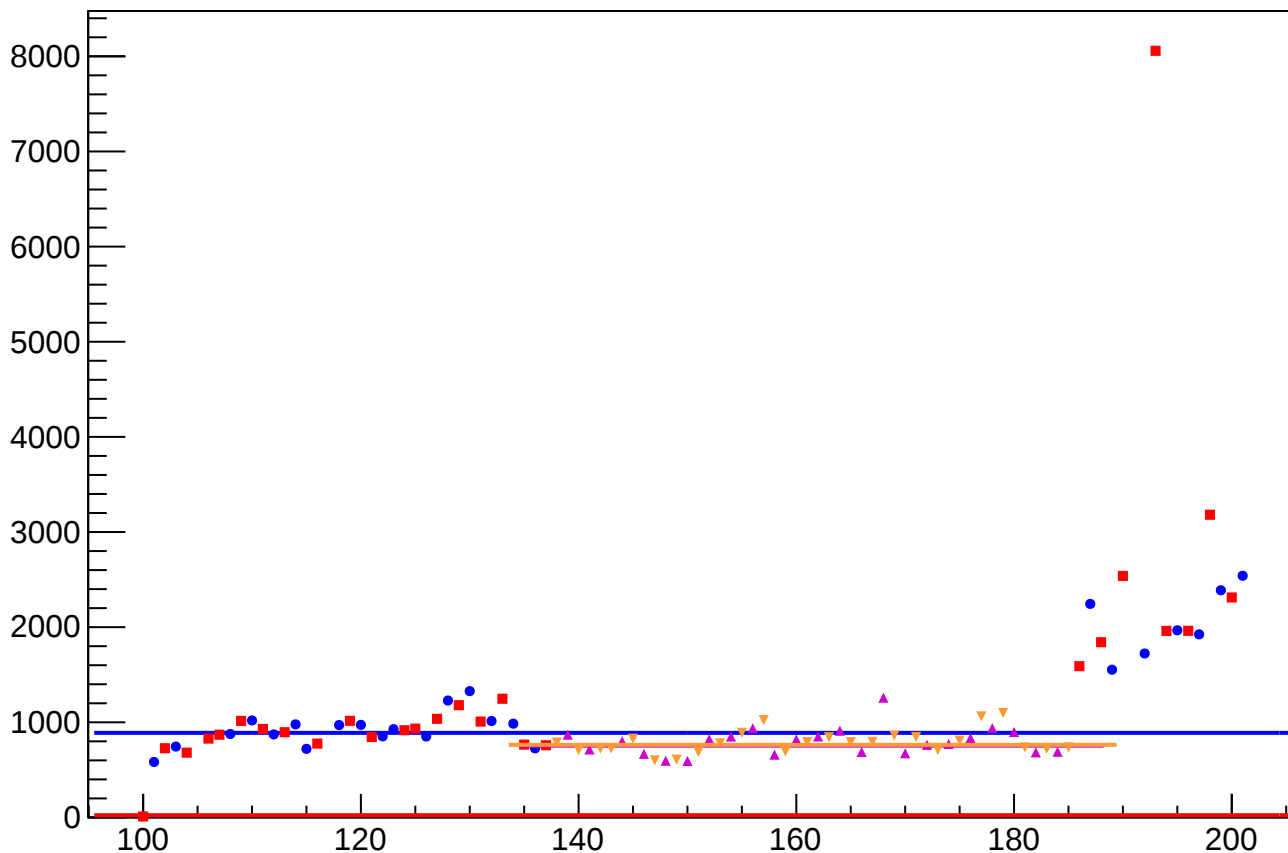
Right: -23.391+/-38.647 χ^2/NDF : 44.8/50

In: -20.089+/-158.900 χ^2/NDF : 41.1/46

Out: -9.333+/-38.060 χ^2/NDF : 53.3/51

All: -9.917+/-37.013 χ^2/NDF : 94.4/98

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 889.267+/-0.225 χ^2/NDF : 1993039.5/23

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

Right Out: 23.707+/-0.028 χ^2/NDF : 18818958.8/26

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

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

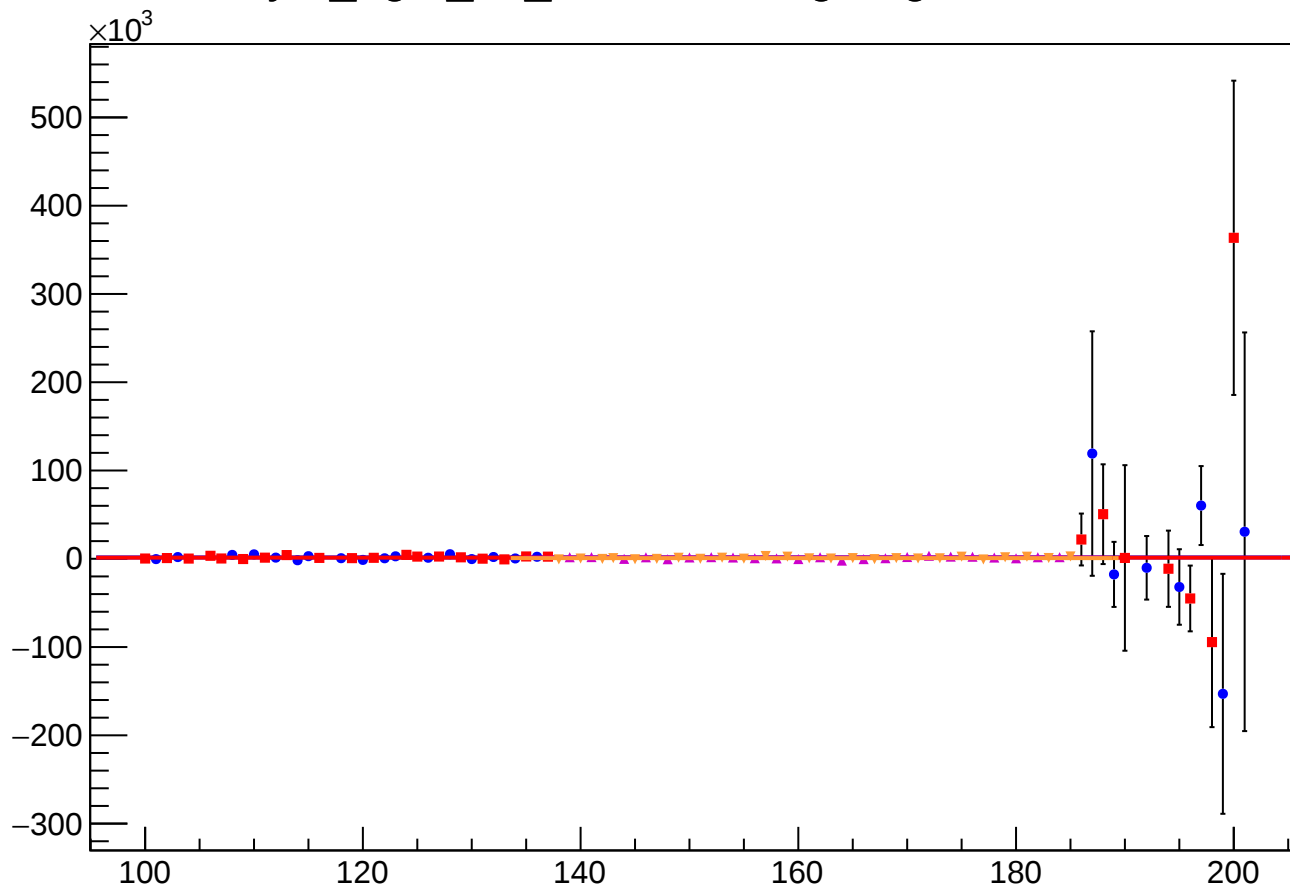
Right: 36.503+/-0.027 χ^2/NDF : 35424397.2/50

In: 788.169+/-0.112 χ^2/NDF : 3194337.4/46

Out: 56.599+/-0.027 χ^2/NDF : 51666262.7/51

All: 96.292+/-0.026 χ^2/NDF : 94953420.6/98

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1517.249+/-402.803 χ^2/NDF : 22.6/23

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

Right Out: 1287.569+/-376.600 χ^2/NDF : 20.4/25

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

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

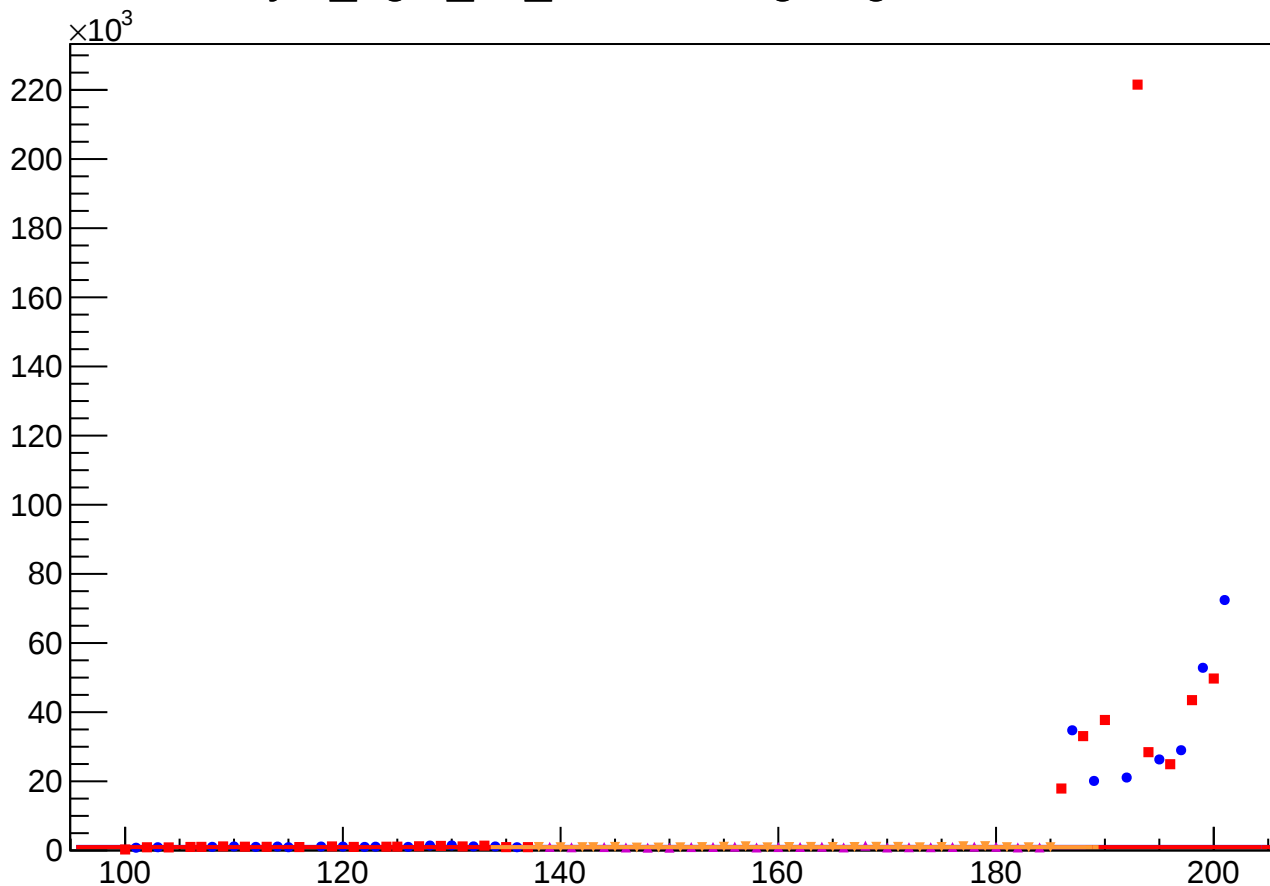
Right: 1394.696+/-275.094 χ^2/NDF : 43.1/49

In: 1260.248+/-199.883 χ^2/NDF : 47.3/46

Out: 886.738+/-193.569 χ^2/NDF : 42.1/50

All: 1067.500+/-139.052 χ^2/NDF : 91.3/97

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1033.033+/-0.285 χ^2/NDF : 3688320.6/23

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

Right Out: 974.428+/-0.266 χ^2/NDF : 4990737.8/26

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

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

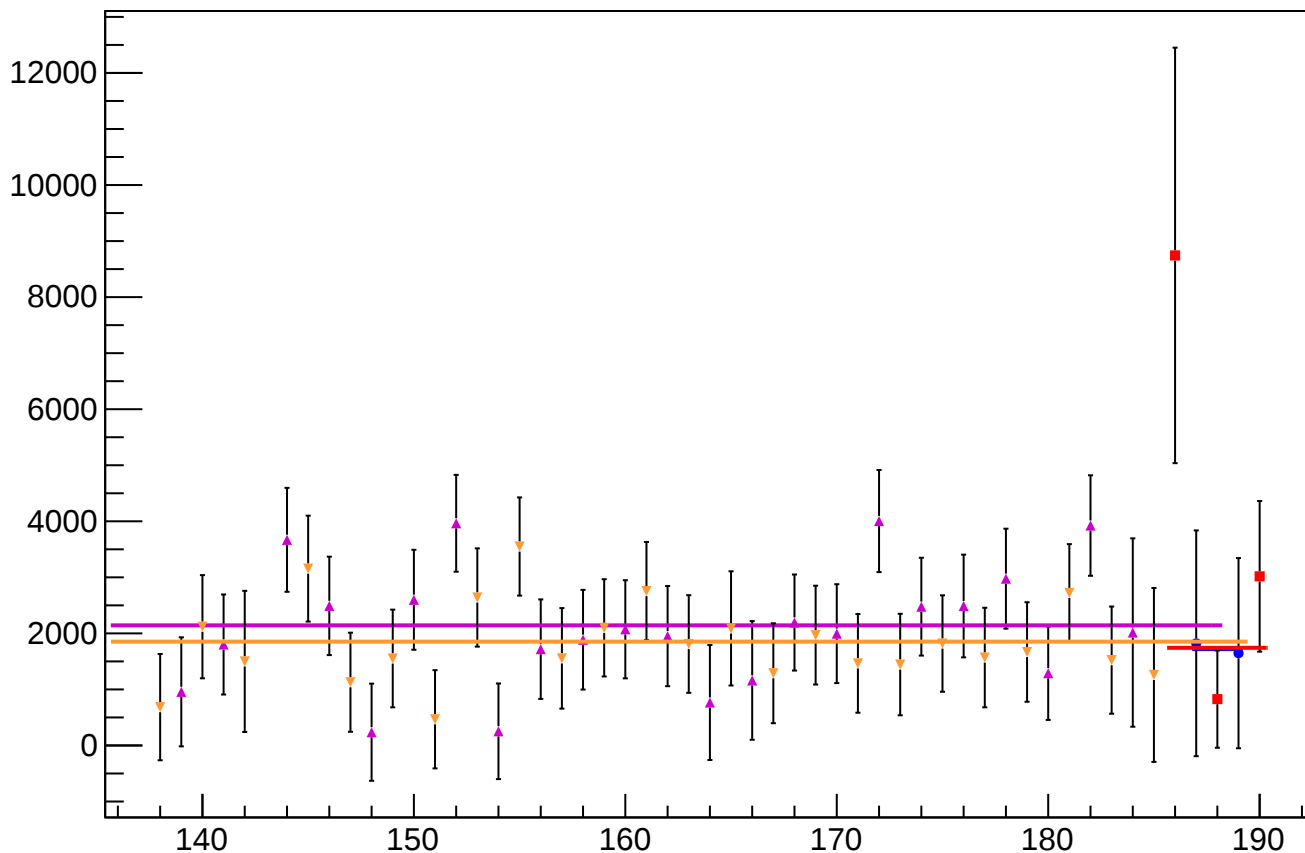
Right: 1001.763+/-0.195 χ^2/NDF : 8701648.7/50

In: 974.464+/-0.141 χ^2/NDF : 4187487.3/46

Out: 965.855+/-0.137 χ^2/NDF : 5354984.3/51

All: 970.021+/-0.098 χ^2/NDF : 9544386.5/98

cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 1720.097+/-1297.686 χ^2/NDF : 0.0/1

Left Out: 1852.926+/-187.412 χ^2/NDF :15.0/23

Right Out: 1742.386+/-715.276 χ^2/NDF : 5.6/2

Left In: 2143.254+/-190.144 χ^2/NDF :32.4/22

Left: 1995.990+/-133.476 χ^2/NDF : 48.5/46

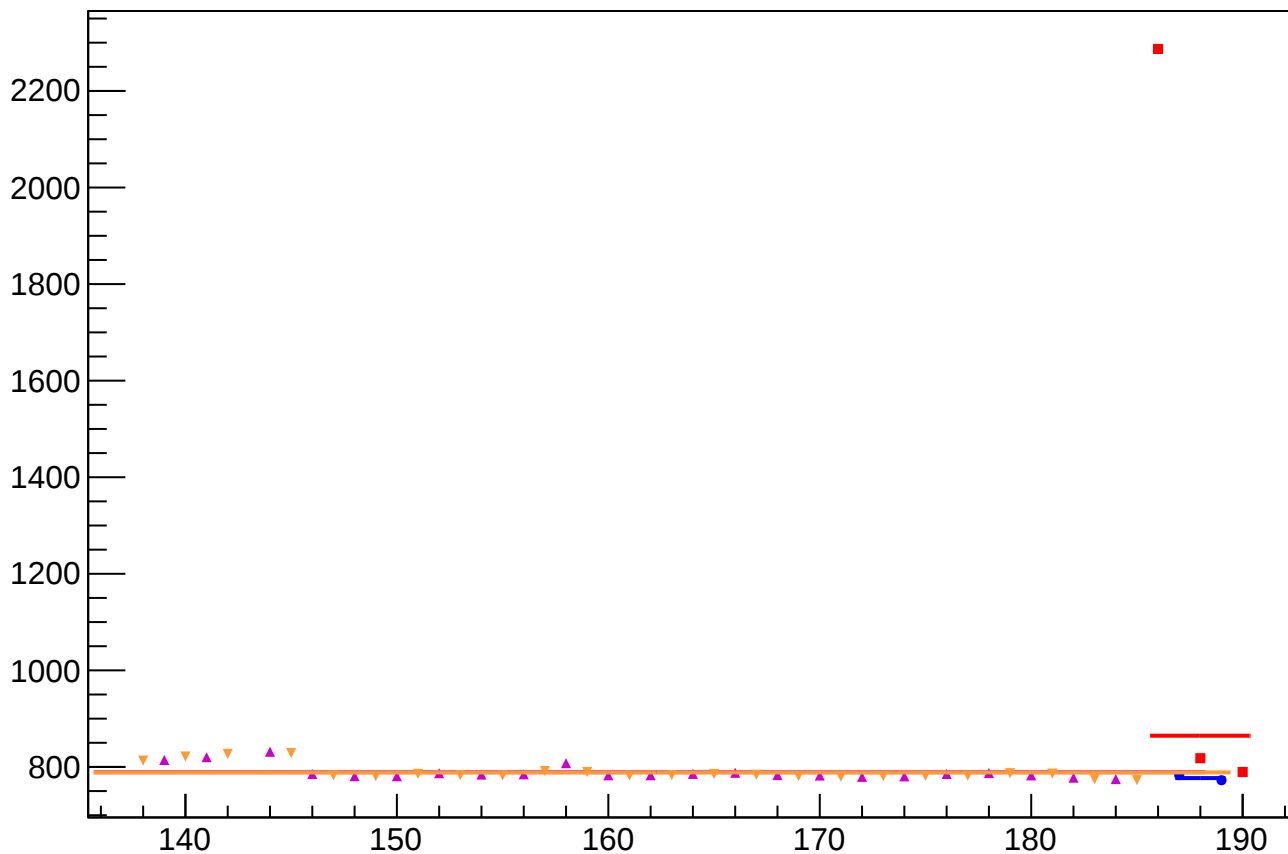
Right: 1737.192+/-626.421 χ^2/NDF : 5.6/4

In: 2134.360+/-188.135 χ^2/NDF :32.5/24

Out: 1845.825+/-181.293 χ^2/NDF :20.6/26

All: 1984.750+/-130.545 χ^2/NDF : 54.3/51

cor_asym_us_avg_rms vs Slug, Sign Corrected



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

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

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

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

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

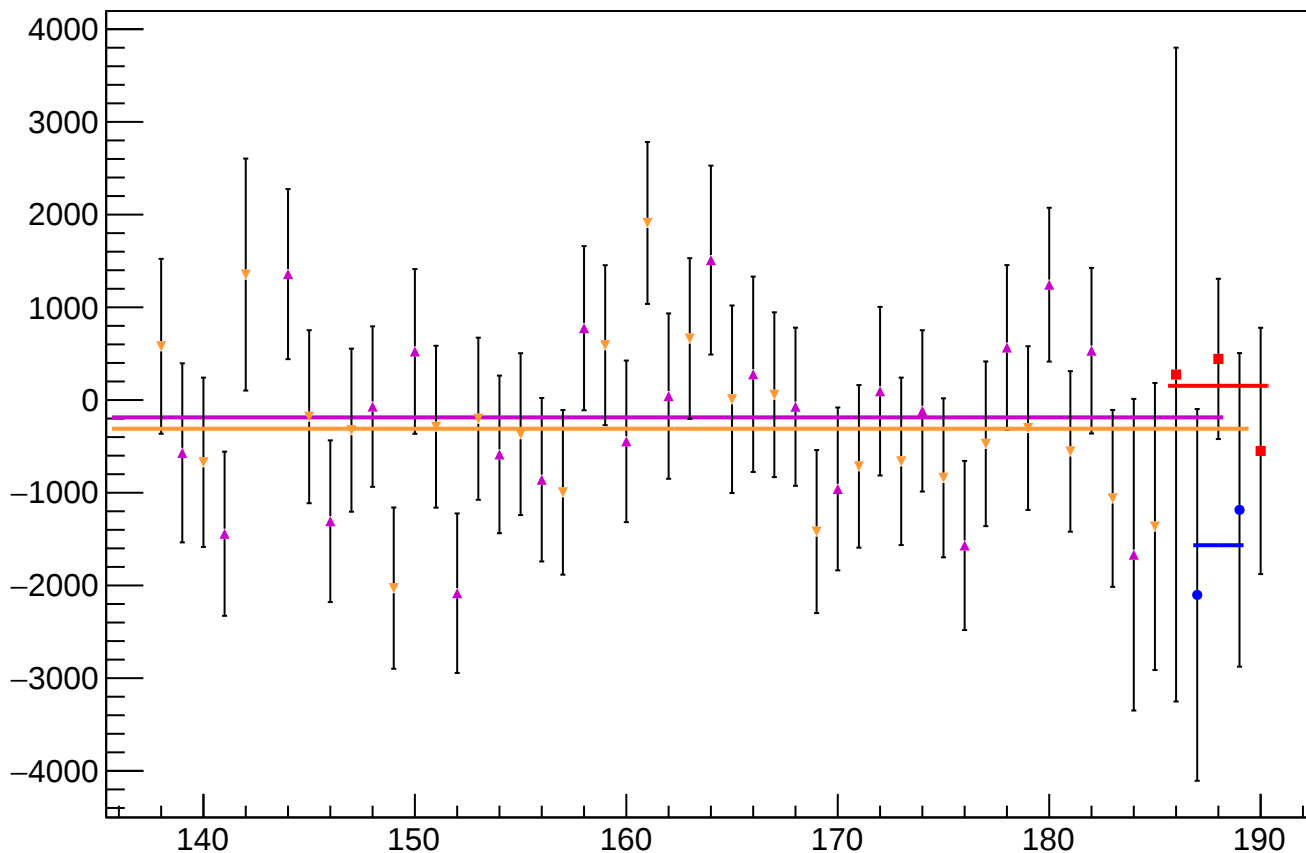
Right: 844.207 ± 0.443 χ^2/NDF : 313539.0/4

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

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

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

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

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

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

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

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

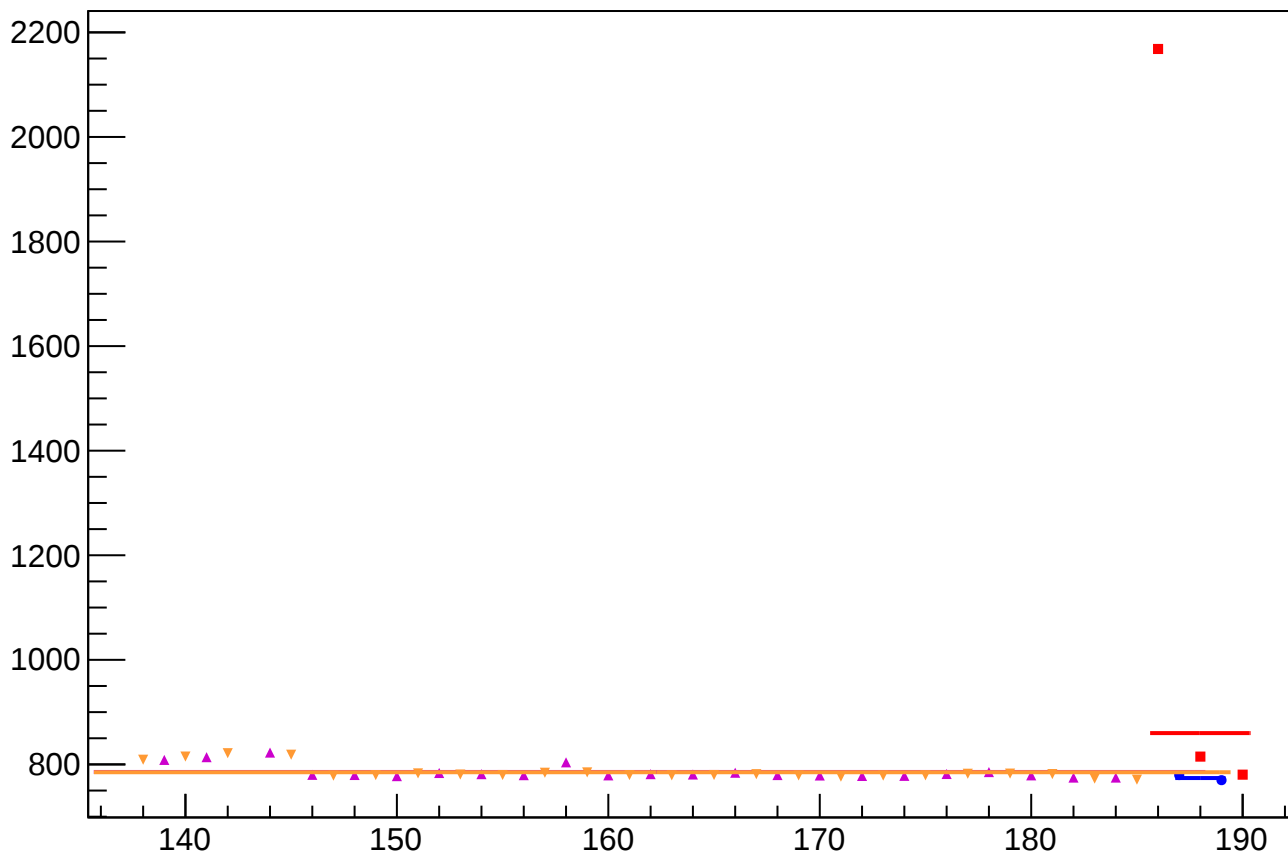
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

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

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

cor_asym_us_dd_rms vs Slug, Sign Corrected



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

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

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

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

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

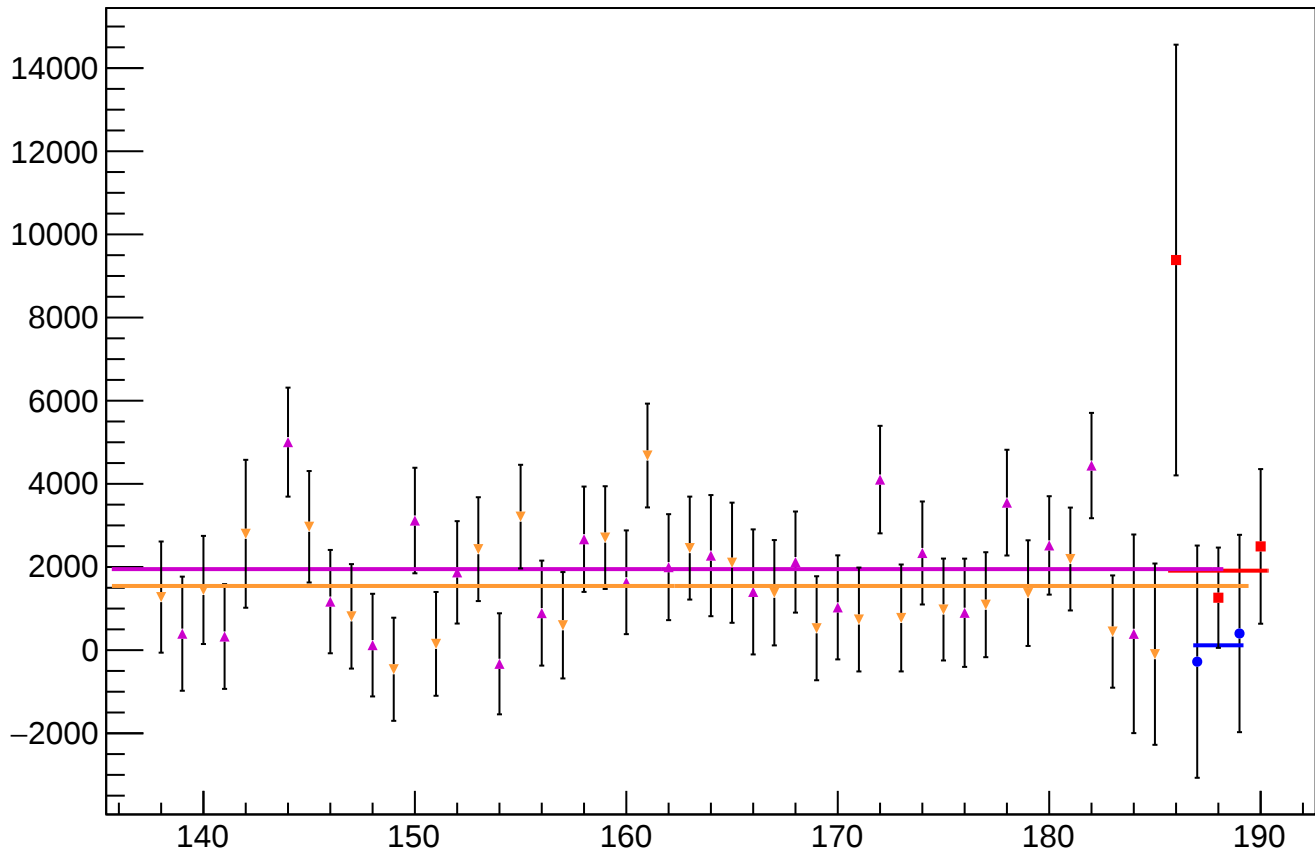
Right: 839.990 $\pm$ 0.440 χ^2 /NDF: 294774.5/4

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

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

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

cor_asym_usl_mean vs Slug, Sign Corrected



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

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

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

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

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

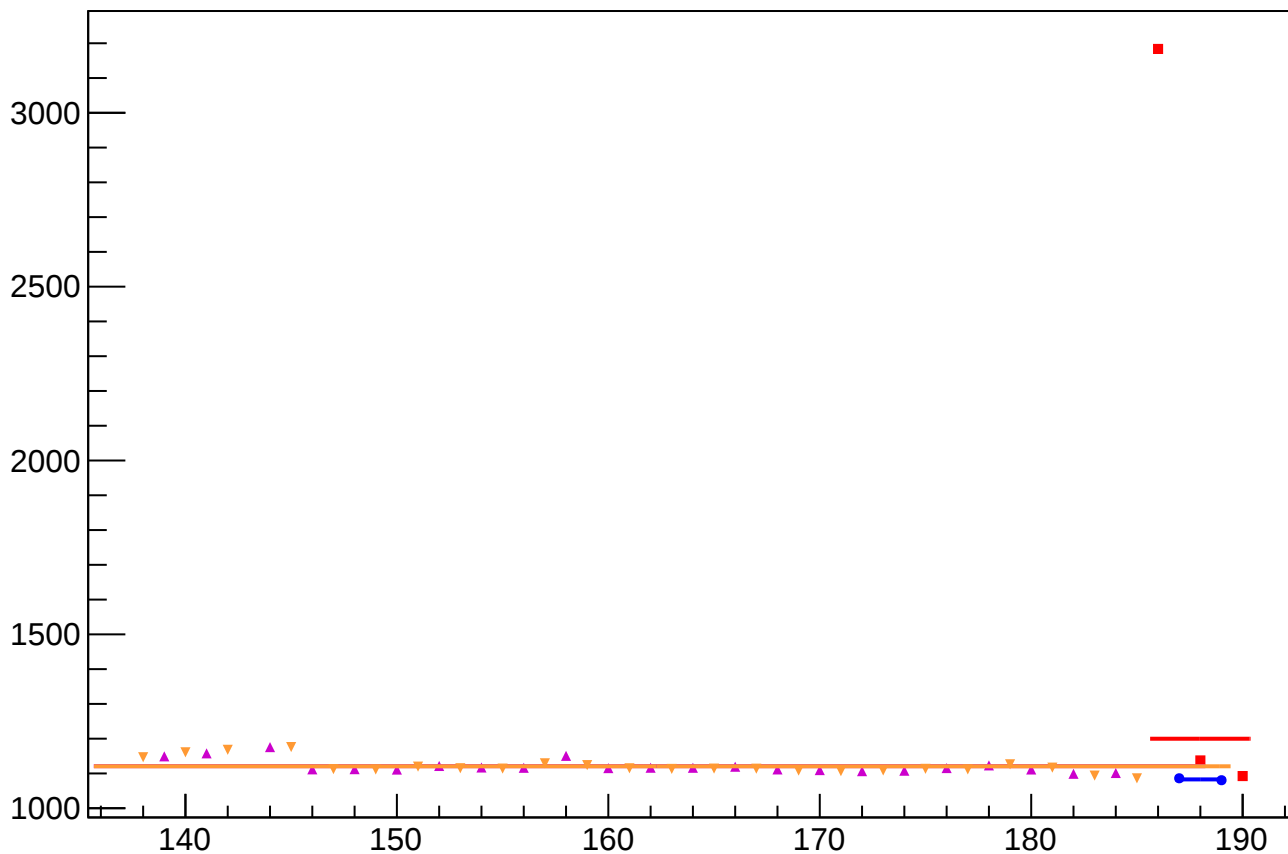
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

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

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

cor_asym_usl_rms vs Slug, Sign Corrected



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

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

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

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

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

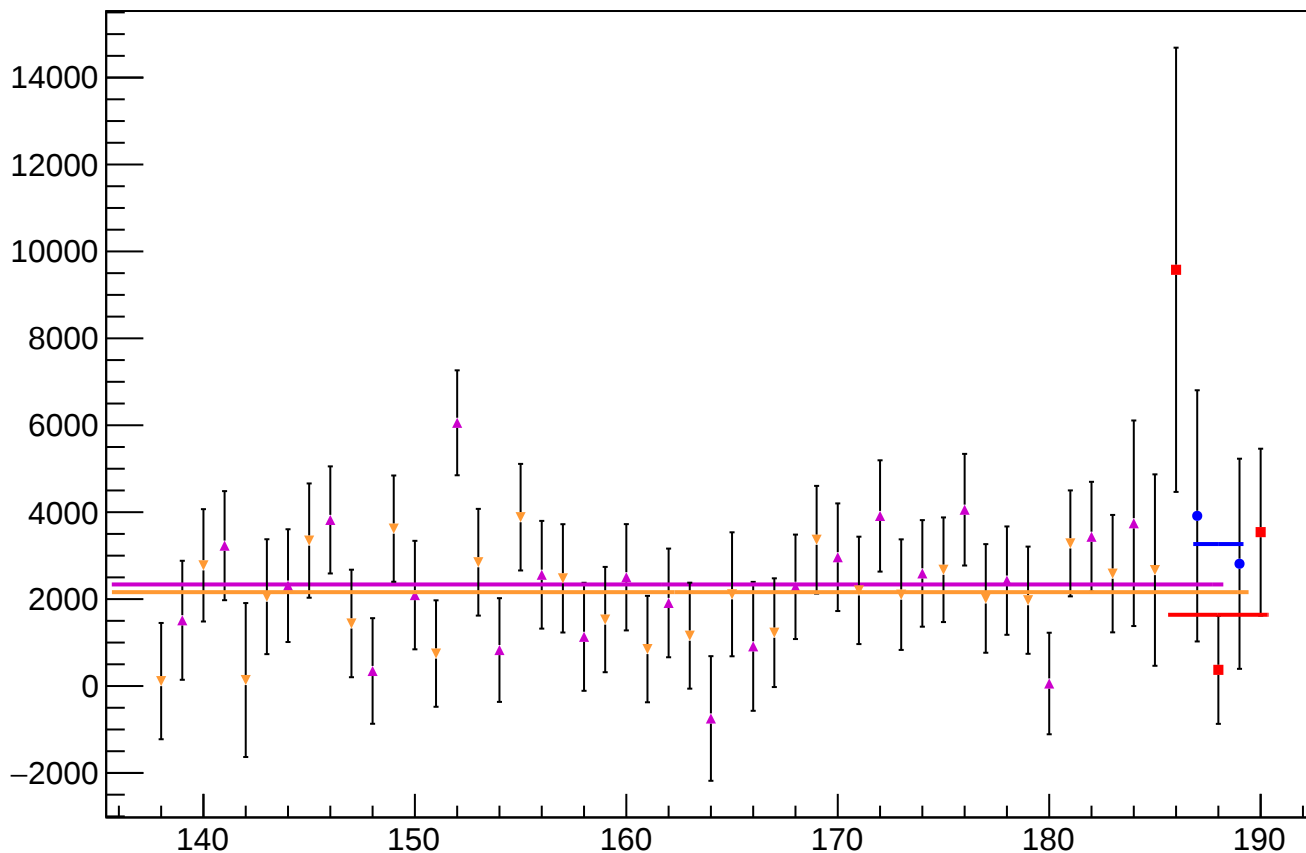
Right: 1172.741 $\pm$ 0.616 χ^2 /NDF: 311788.3/4

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

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

All: 1123.129 $\pm$ 0.131 χ^2 /NDF: 338117.1/51

cor_asym_usr_mean vs Slug, Sign Corrected



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

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

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

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

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

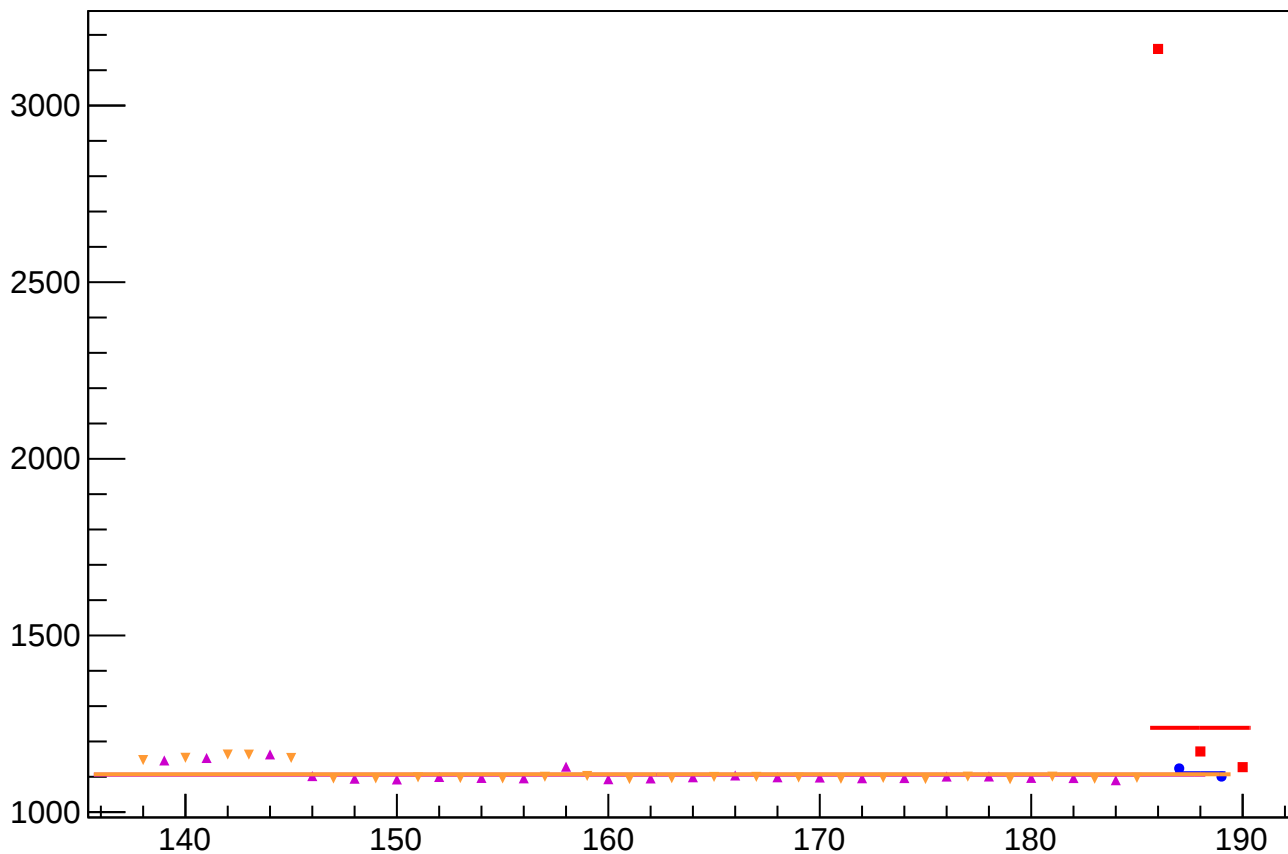
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

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

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

cor_asym_usr_rms vs Slug, Sign Corrected



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

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

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

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

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

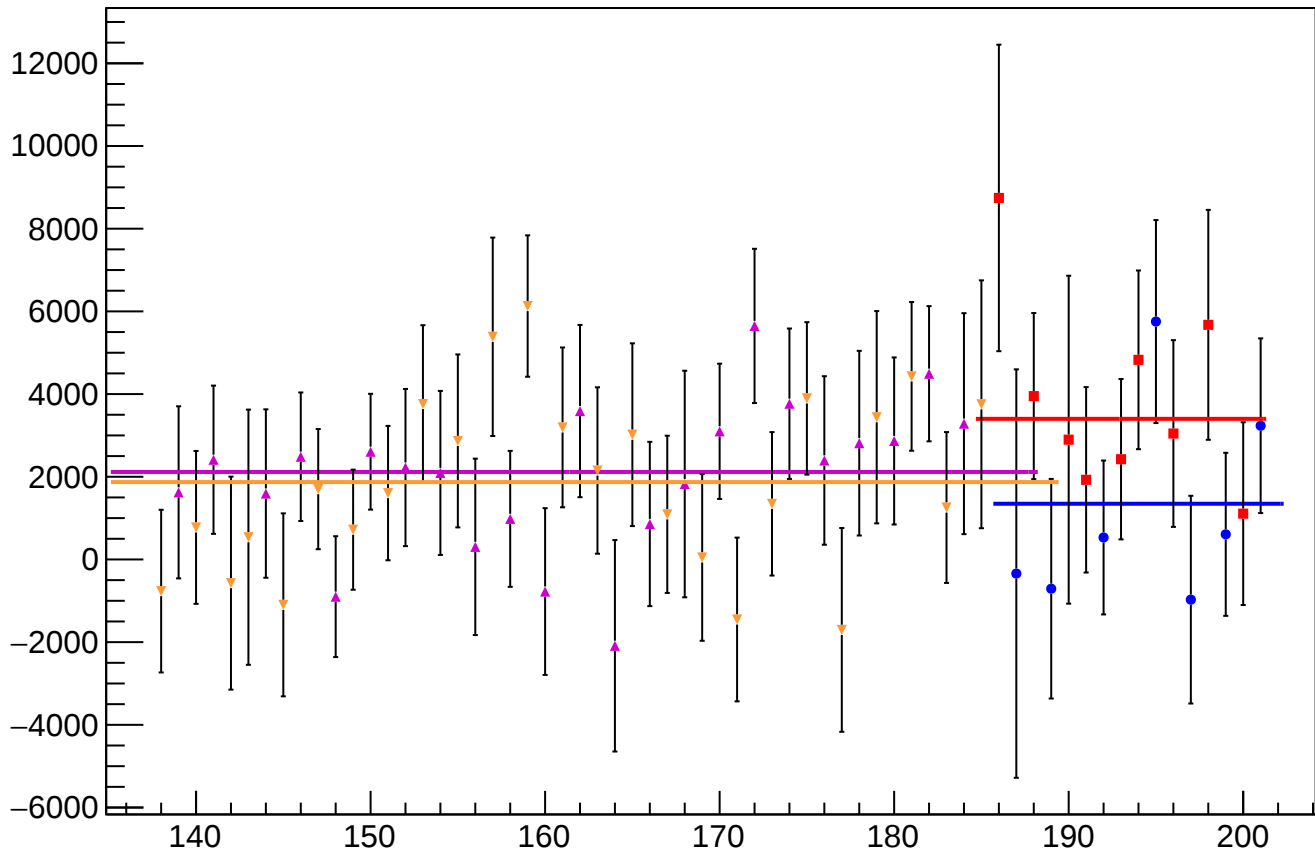
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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

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

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

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 1347.464+/-884.866 χ^2/NDF : 5.9/6

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

Right Out: 3401.231+/-792.243 χ^2/NDF : 5.1/8

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

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

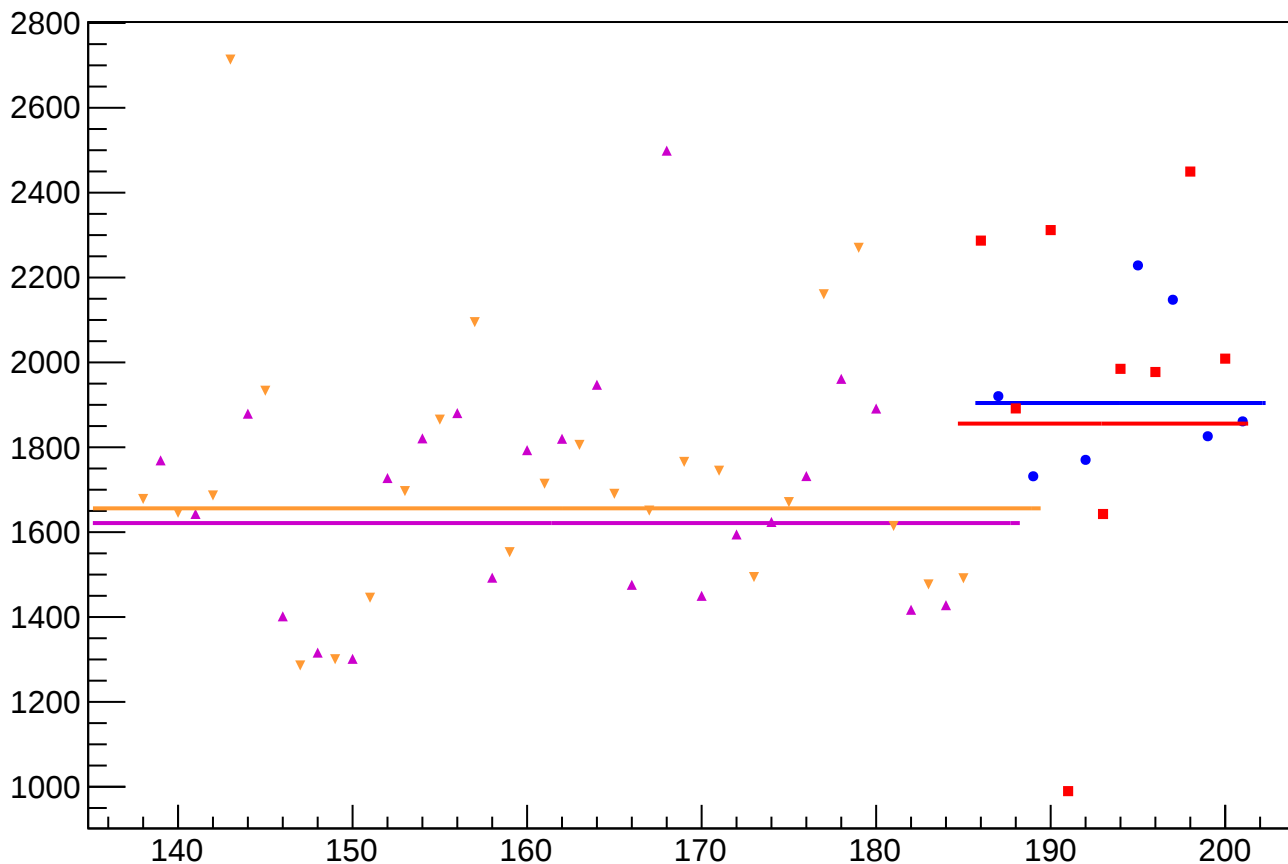
Right: 2487.428+/-590.239 χ^2/NDF : 14.0/15

In: 1989.476+/-359.167 χ^2/NDF : 25.3/29

Out: 2172.079+/-351.116 χ^2/NDF : 34.2/33

All: 2082.847+/-251.074 χ^2/NDF : 59.6/63

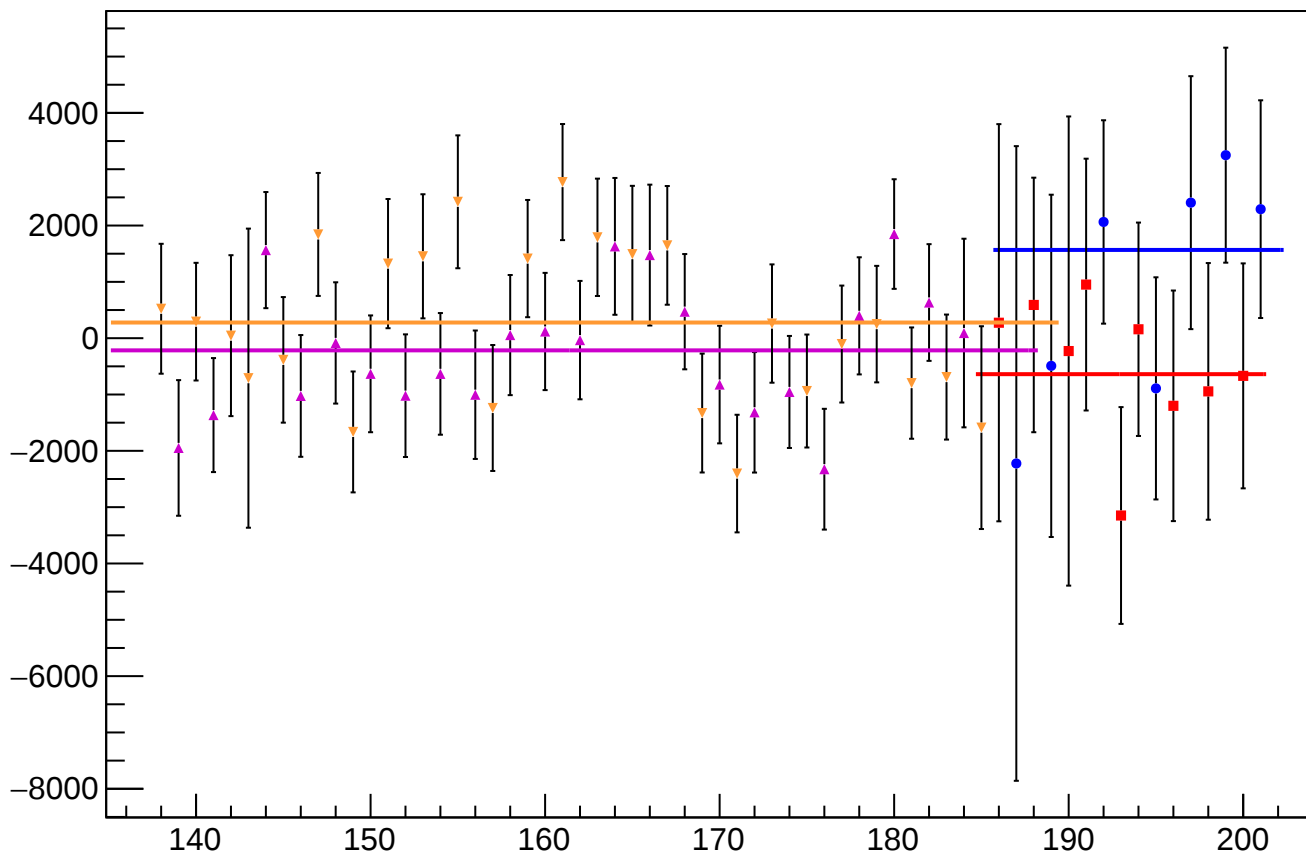
asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1904.340 $\pm$ 0.626 χ^2/NDF : 76482.7/6
 Left Out: 1656.119 $\pm$ 0.277 χ^2/NDF : 910573.4/24
 Right Out: 1855.790 $\pm$ 0.560 χ^2/NDF : 490400.8/8
 Left In: 1621.417 $\pm$ 0.278 χ^2/NDF : 775310.1/22

Left: 1638.826 $\pm$ 0.196 χ^2/NDF : 1693706.9/47
 Right: 1877.392 $\pm$ 0.417 χ^2/NDF : 570225.5/15
 In: 1668.030 $\pm$ 0.254 χ^2/NDF : 1022569.0/29
 Out: 1695.338 $\pm$ 0.248 χ^2/NDF : 1503061.2/33
 All: 1681.994 $\pm$ 0.178 χ^2/NDF : 2531542.3/63

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1566.950 $\pm$ 832.111 χ^2 /NDF: 3.6/6

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

Right Out: -638.713 $\pm$ 752.764 χ^2 /NDF: 2.8/8

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

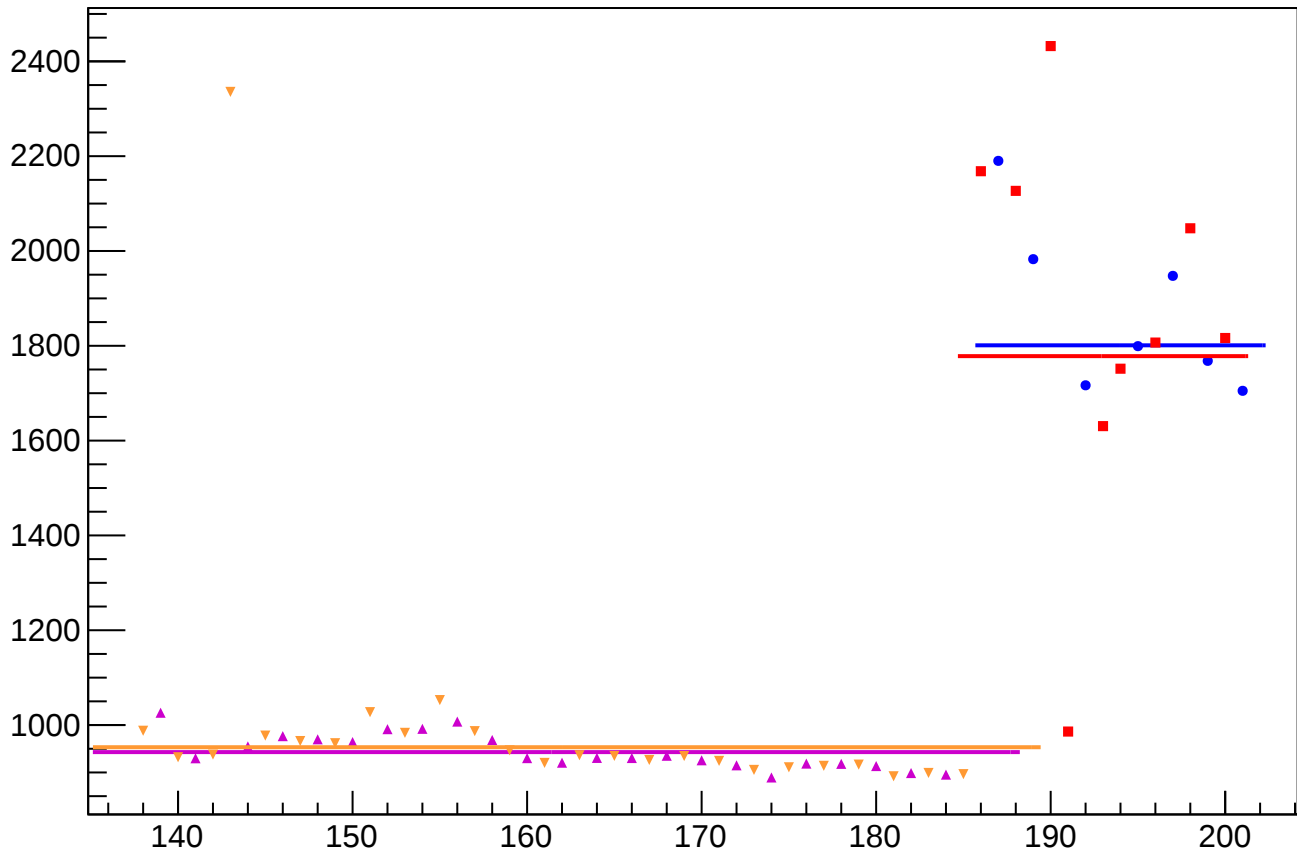
Right: 353.967 $\pm$ 558.234 χ^2 /NDF: 10.3/15

In: -94.031 $\pm$ 217.740 χ^2 /NDF:32.3/29

Out: 203.769 $\pm$ 214.327 χ^2 /NDF:42.6/33

All: 57.221 $\pm$ 152.744 χ^2 /NDF: 75.9/63

asym_us_agg_dd_rms vs Slug, Sign Corrected



Left: 948.120 $\pm$ 0.112 χ^2/NDF : 656777.0/47

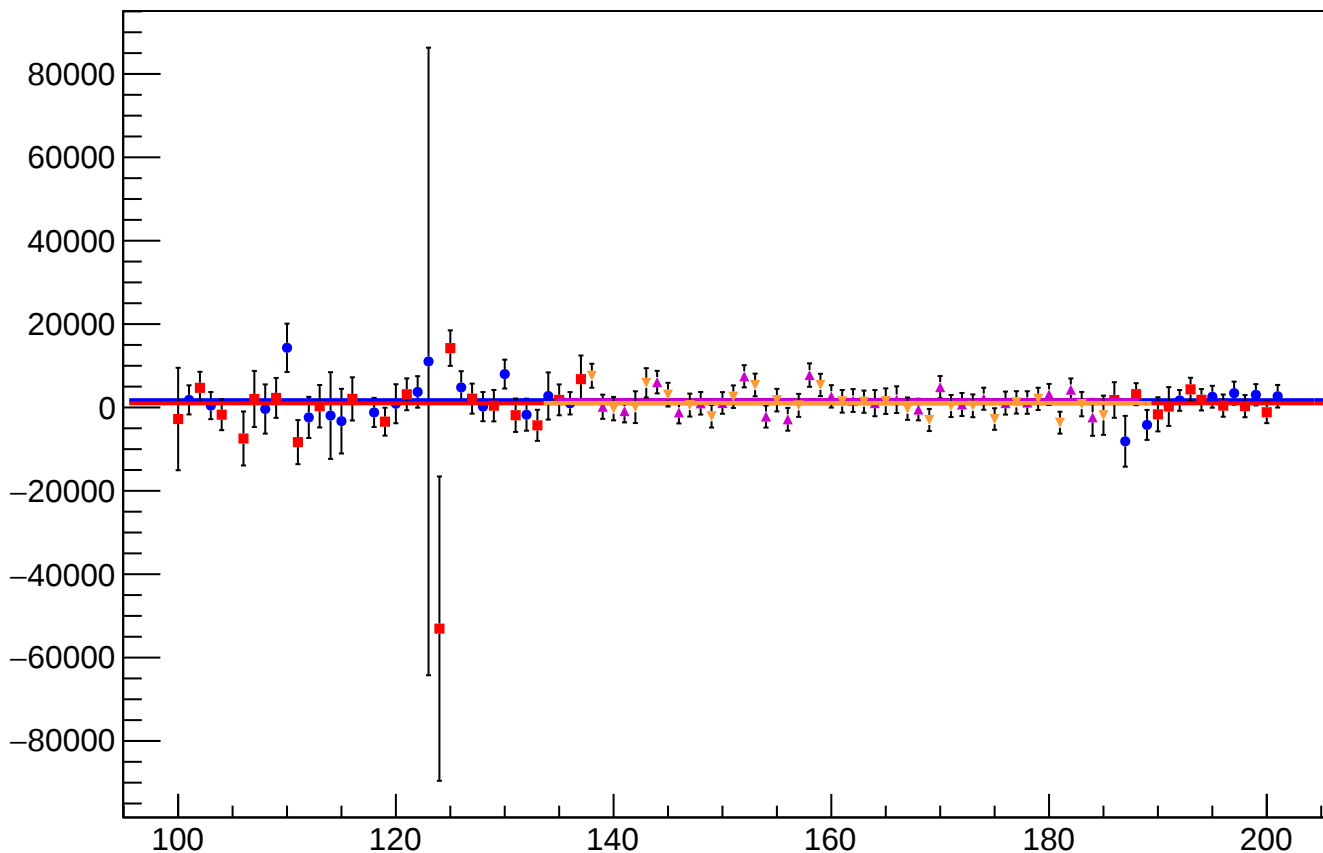
Right: 1788.457 $\pm$ 0.395 χ^2/NDF : 449661.0/15

In: 1001.681 $\pm$ 0.154 χ^2/NDF : 2064650.2/29

Out: 1020.097 $\pm$ 0.152 χ^2/NDF : 3227352.1/33

All: 1011.035 $\pm$ 0.108 χ^2/NDF : 5299269.0/63

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1743.985 $\pm$ 745.307 χ^2 /NDF: 18.5/23

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

Right Out: 994.959 $\pm$ 713.732 χ^2 /NDF: 27.7/27

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

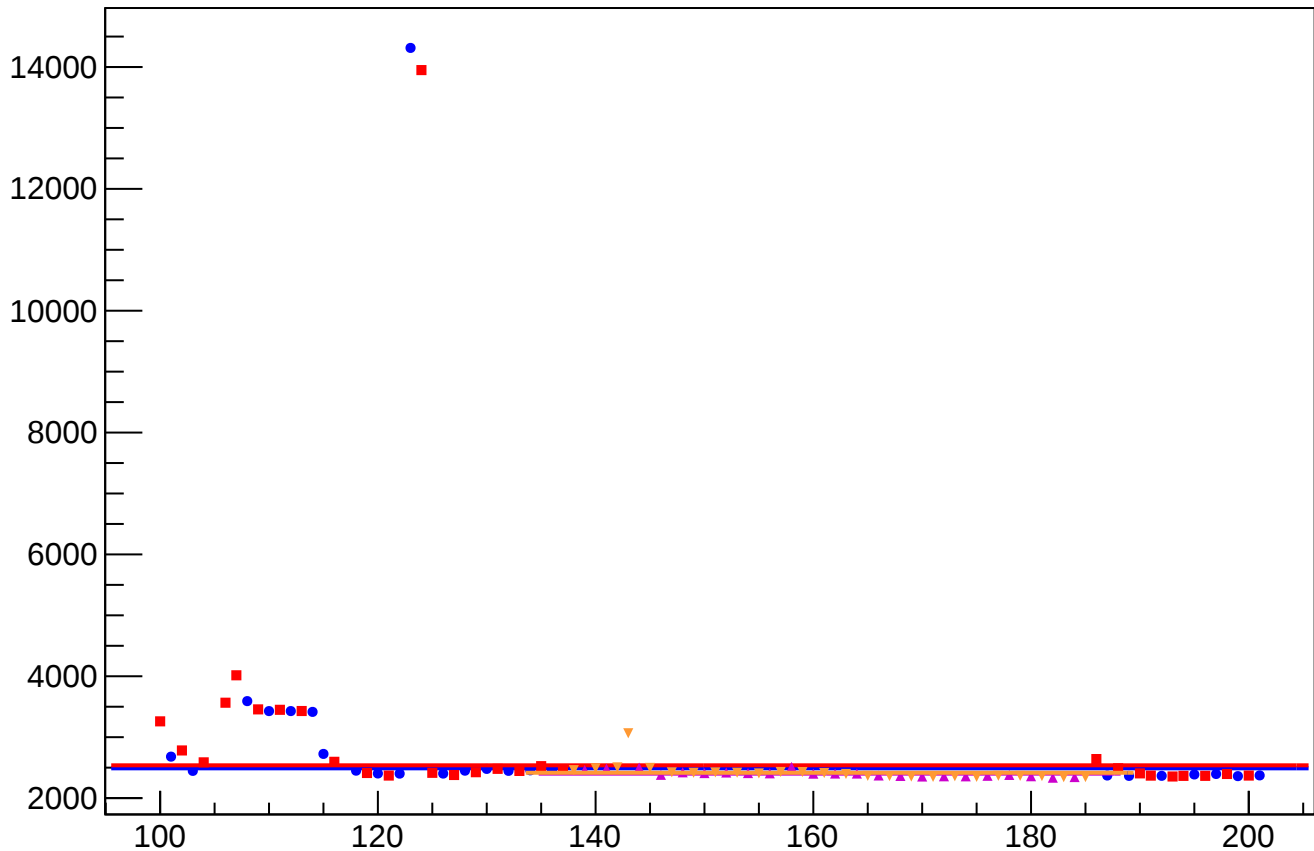
Right: 1353.269 $\pm$ 515.486 χ^2 /NDF: 46.7/51

In: 1764.720 $\pm$ 455.704 χ^2 /NDF:42.5/46

Out: 1046.112 $\pm$ 442.517 χ^2 /NDF:51.3/52

All: 1394.868 $\pm$ 317.467 χ^2 /NDF: 95.1/99

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2488.661+/-0.527 χ^2/NDF : 294218.5/23

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

Right Out: 2538.266+/-0.505 χ^2/NDF : 615107.8/27

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

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

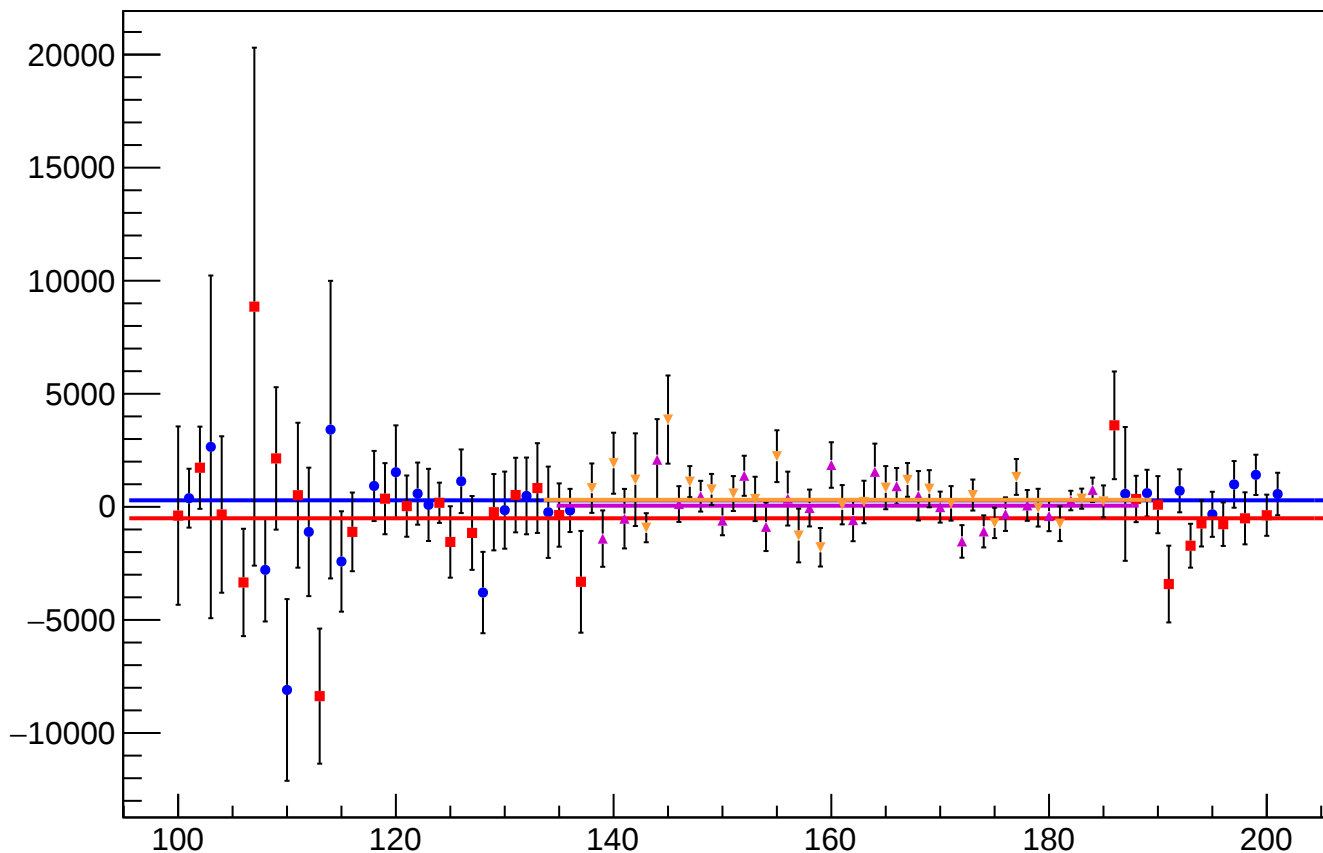
Right: 2514.536+/-0.365 χ^2/NDF : 913947.6/51

In: 2434.036+/-0.322 χ^2/NDF : 325124.1/46

Out: 2463.012+/-0.313 χ^2/NDF : 733862.0/52

All: 2448.949+/-0.224 χ^2/NDF : 1063147.8/99

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 289.543 $\pm$ 287.165 χ^2 /NDF: 17.5/23

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

Right Out: -504.844 $\pm$ 276.123 χ^2 /NDF: 24.1/27

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

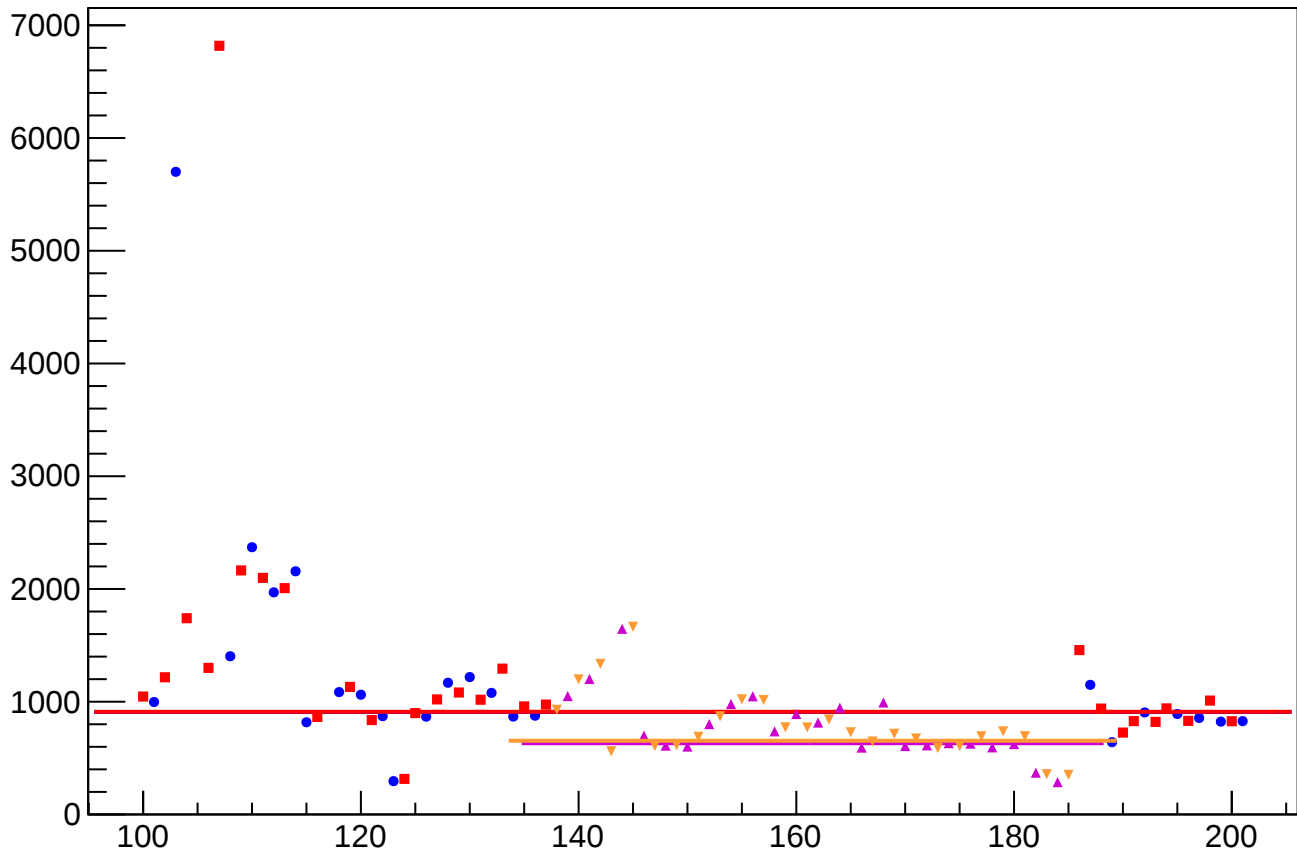
Right: -123.217 $\pm$ 199.038 χ^2 /NDF: 45.6/51

In: 108.795 $\pm$ 140.927 χ^2 /NDF:41.9/46

Out: 104.582 $\pm$ 138.858 χ^2 /NDF:60.4/52

All: 106.658 $\pm$ 98.911 χ^2 /NDF: 102.3/99

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 908.464+/-0.203 χ^2/NDF : 2175089.1/23

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

Right Out: 910.795+/-0.195 χ^2/NDF : 2899328.3/27

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

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

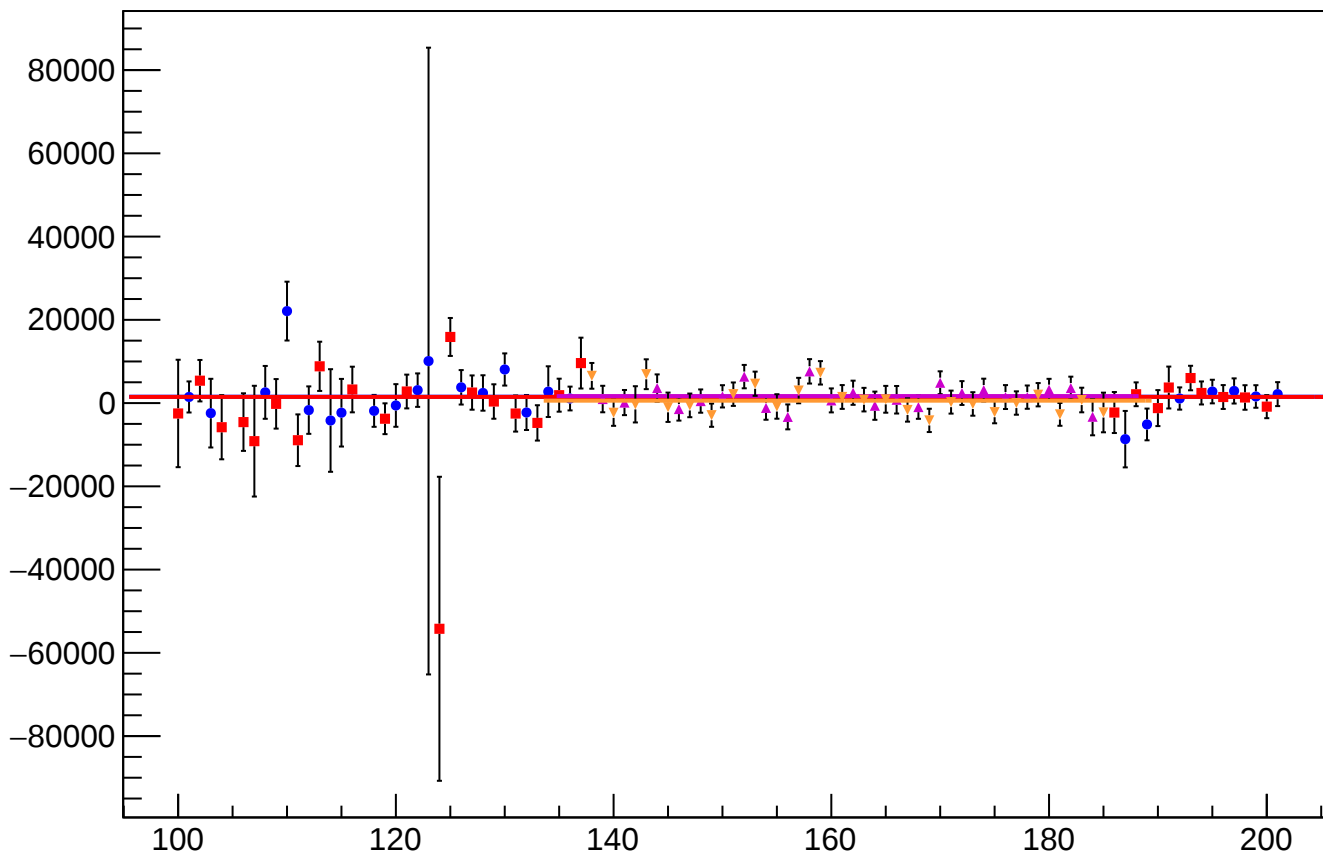
Right: 909.675+/-0.141 χ^2/NDF : 5074485.8/51

In: 698.624+/-0.100 χ^2/NDF : 7524681.1/46

Out: 718.794+/-0.098 χ^2/NDF : 7448354.8/52

All: 708.858+/-0.070 χ^2/NDF : 14993824.8/99

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1532.189 $\pm$ 827.459 χ^2 /NDF: 20.5/23

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

Right Out: 1482.049 $\pm$ 796.915 χ^2 /NDF: 31.3/27

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

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

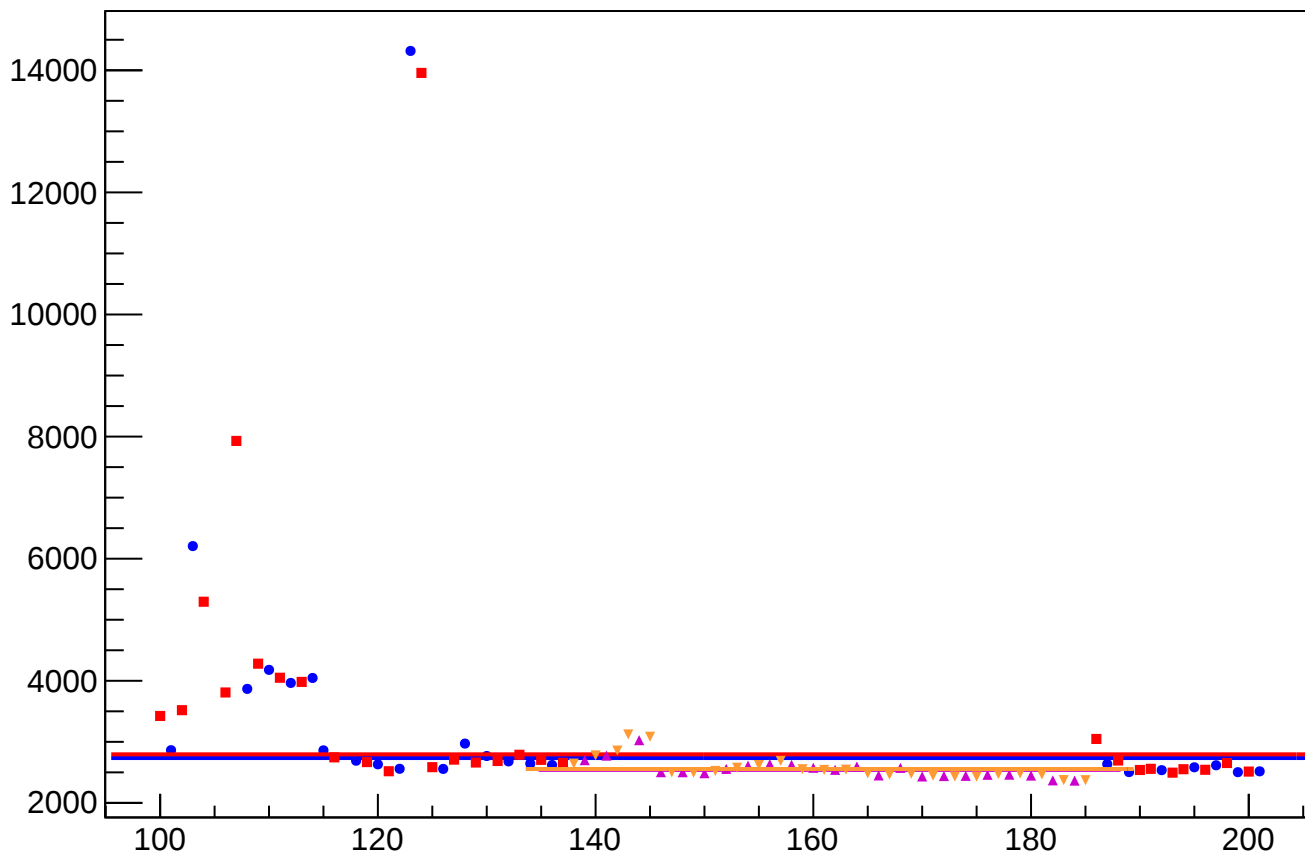
Right: 1506.176 $\pm$ 573.998 χ^2 /NDF: 51.8/51

In: 1627.666 $\pm$ 491.058 χ^2 /NDF: 38.7/46

Out: 904.944 $\pm$ 477.886 χ^2 /NDF: 57.5/52

All: 1256.481 $\pm$ 342.479 χ^2 /NDF: 97.2/99

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2734.698+/-0.585 χ^2/NDF : 739879.7/23

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

Right Out: 2795.482+/-0.564 χ^2/NDF : 1190673.1/27

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

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

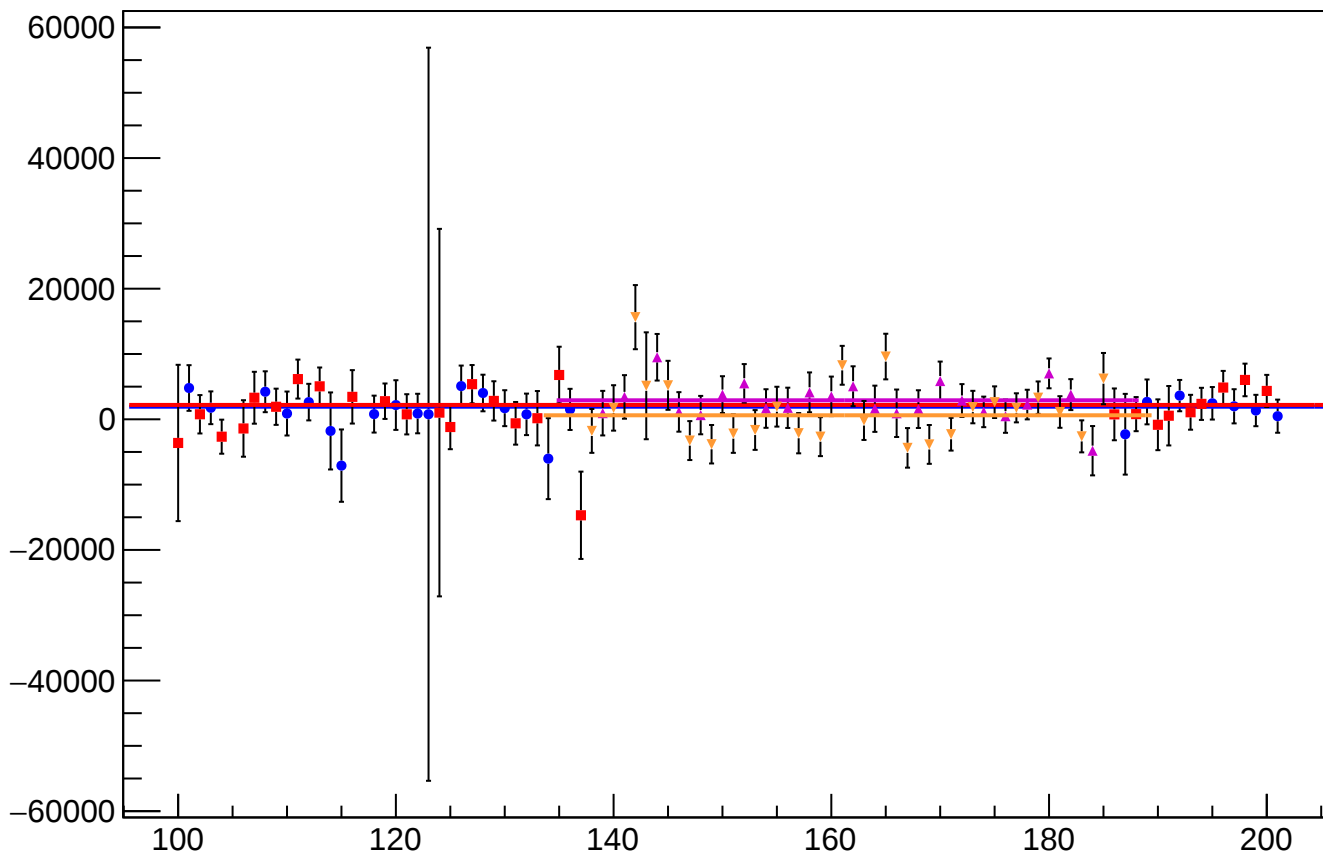
Right: 2766.233+/-0.406 χ^2/NDF : 1936151.9/51

In: 2609.210+/-0.347 χ^2/NDF :905641.9/46

Out: 2641.657+/-0.338 χ^2/NDF :1461778.7/52

All: 2625.875+/-0.242 χ^2/NDF : 2371905.4/99

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1931.868 $\pm$ 641.253 χ^2/NDF : 9.5/23

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

Right Out: 2202.262 $\pm$ 608.290 χ^2/NDF : 24.1/27

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

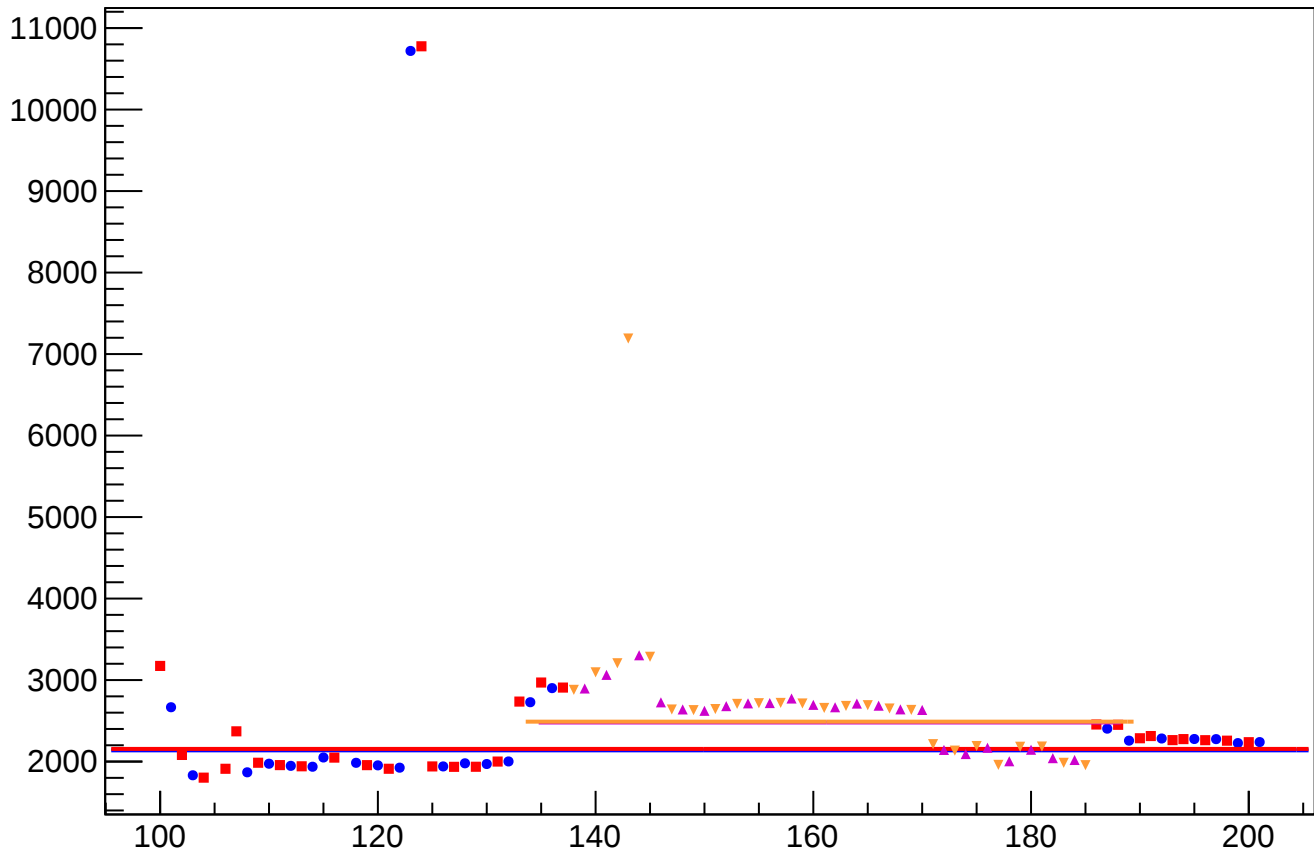
Right: 2074.193 $\pm$ 441.319 χ^2/NDF : 33.7/51

In: 2453.195 $\pm$ 437.995 χ^2/NDF : 28.1/46

Out: 1385.882 $\pm$ 423.935 χ^2/NDF : 72.8/52

All: 1902.133 $\pm$ 304.617 χ^2/NDF : 104.0/99

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2137.611+/-0.453 χ^2/NDF : 366682.1/23

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

Right Out: 2155.180+/-0.430 χ^2/NDF : 532675.0/27

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

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

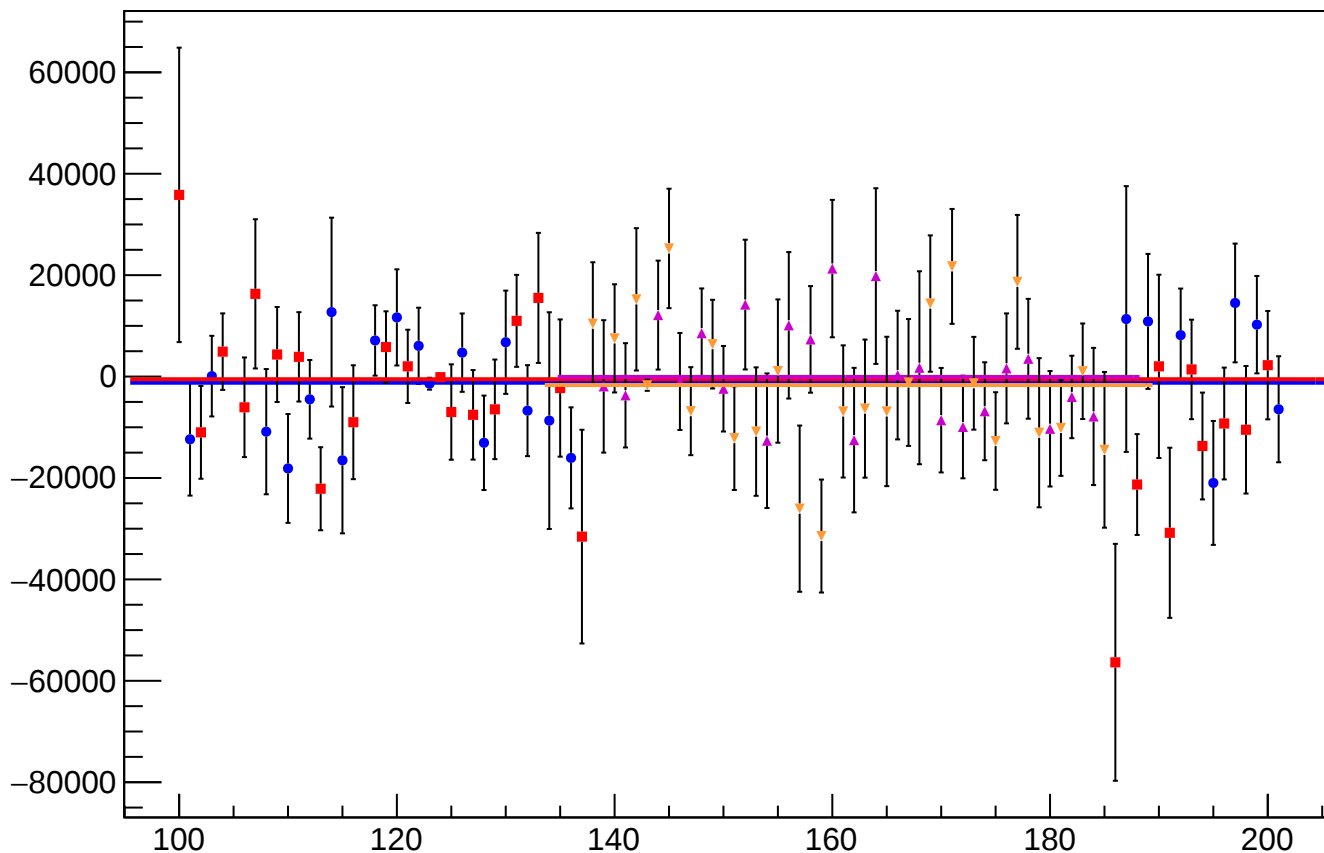
Right: 2146.859+/-0.312 χ^2/NDF : 900147.5/51

In: 2319.917+/-0.310 χ^2/NDF : 1338097.2/46

Out: 2327.156+/-0.300 χ^2/NDF : 2207720.3/52

All: 2323.655+/-0.215 χ^2/NDF : 3546099.6/99

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1214.734 $\pm$ 1024.917 χ^2 /NDF: 24.0/23

Left Out: -1665.417 $\pm$ 993.060 χ^2 /NDF:32.4/24

Right Out: -520.449 $\pm$ 685.264 χ^2 /NDF: 37.4/27

Left In: -80.274 $\pm$ 2331.531 χ^2 /NDF:13.8/22

Left: -1422.008 $\pm$ 913.639 χ^2 /NDF: 46.6/47

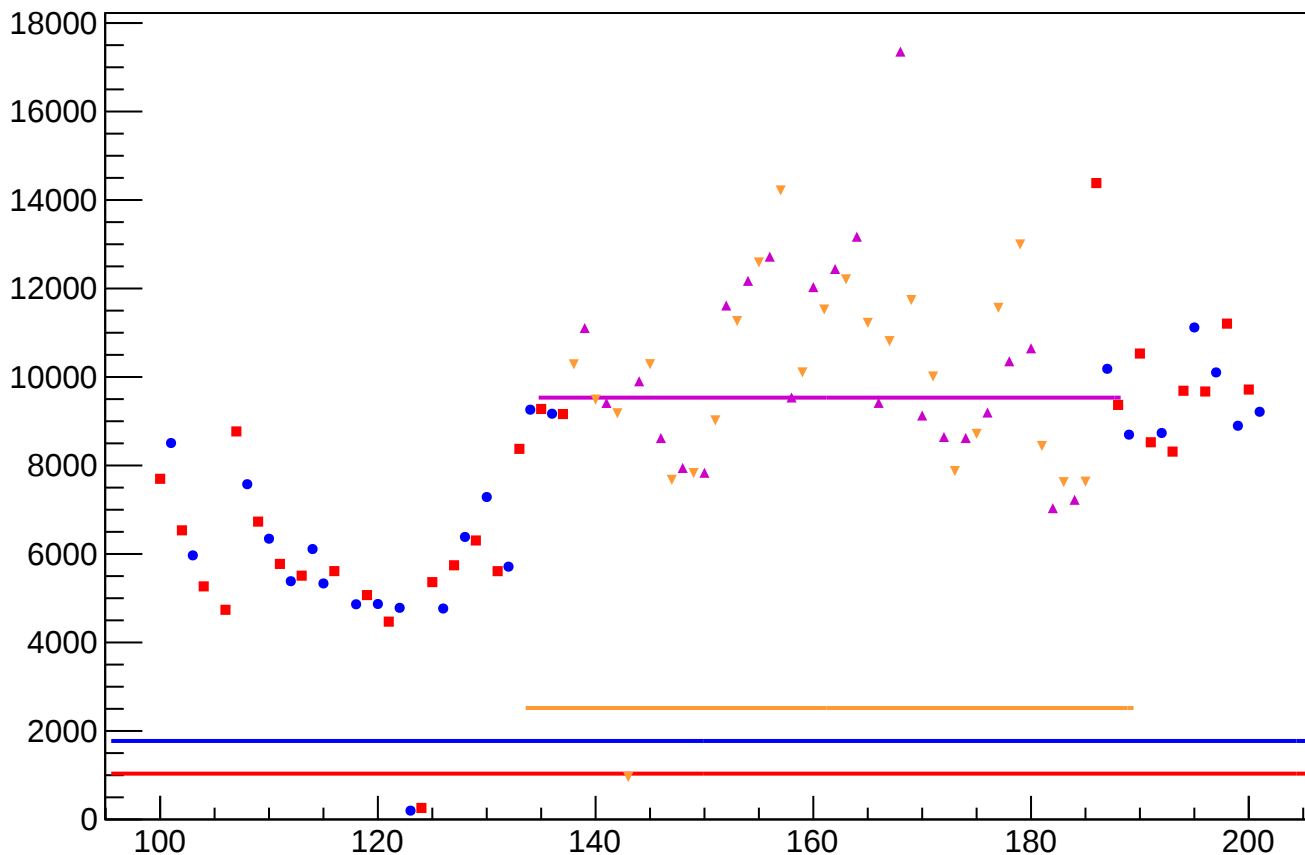
Right: -734.935 $\pm$ 569.664 χ^2 /NDF: 61.7/51

In: -1031.014 $\pm$ 938.264 χ^2 /NDF:38.0/46

Out: -889.784 $\pm$ 564.013 χ^2 /NDF:70.7/52

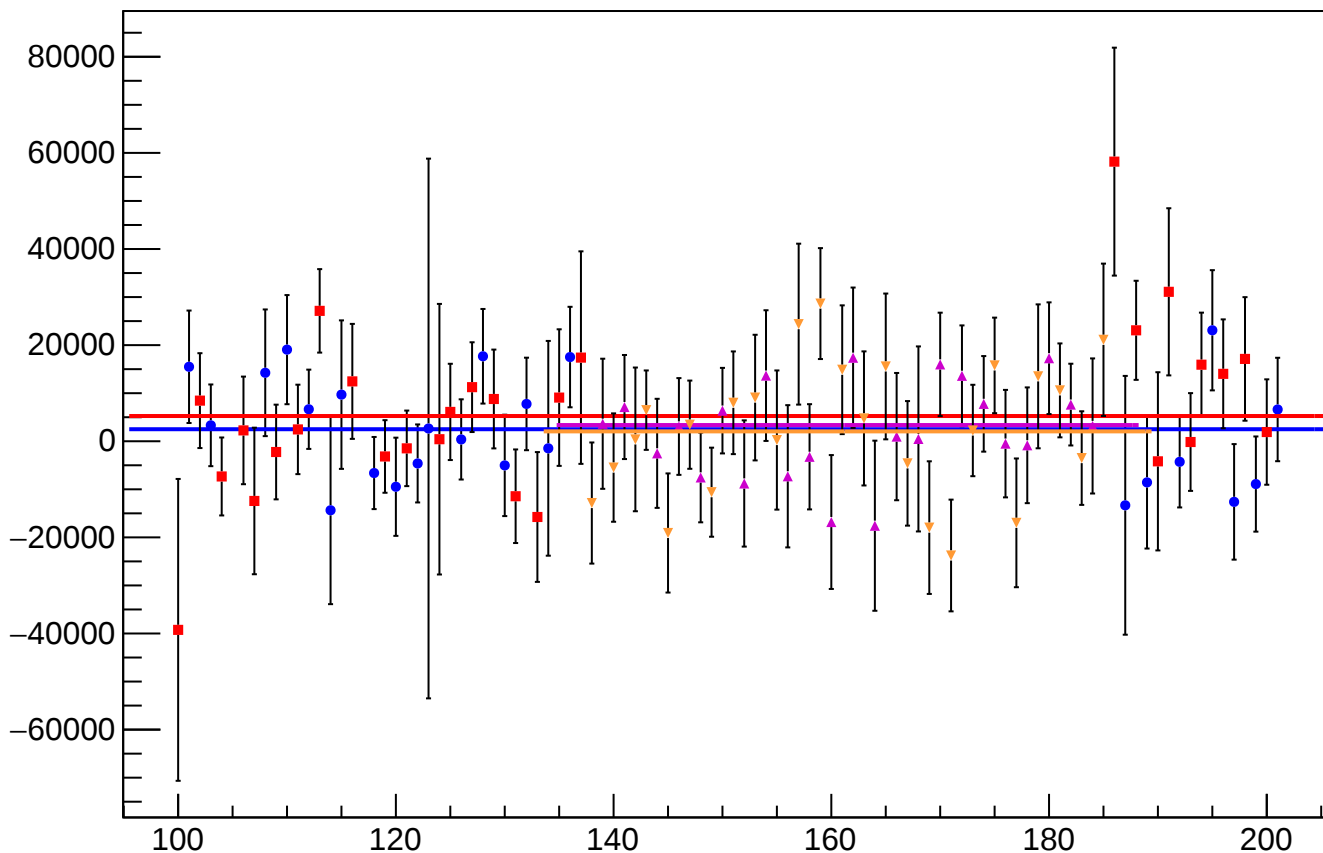
All: -927.272 $\pm$ 483.397 χ^2 /NDF: 108.7/99

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1773.776 $\pm$ 0.725	χ^2 /NDF: 16579427.8/23	Left: 3596.432 $\pm$ 0.646	χ^2 /NDF: 40280305.8/47
Left Out: 2519.359 $\pm$ 0.702	χ^2 /NDF: 23642118.3/24	Right: 1263.717 $\pm$ 0.403	χ^2 /NDF: 38284565.1/51
Right Out: 1035.704 $\pm$ 0.485	χ^2 /NDF: 20988378.9/27	In: 3030.434 $\pm$ 0.663	χ^2 /NDF: 36462126.5/46
Left In: 9533.563 $\pm$ 1.649	χ^2 /NDF: 1316640.0/22	Out: 1514.290 $\pm$ 0.399	χ^2 /NDF: 47654676.8/52
		All: 1916.729 $\pm$ 0.342	χ^2 /NDF: 87952914.9/95

asym_atl2_mean vs Slug, Sign Corrected



Right In: 2503.981+/-2211.159 χ^2/NDF : 21.6/23

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

Right Out: 5250.615+/-2096.446 χ^2/NDF : 34.8/27

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

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

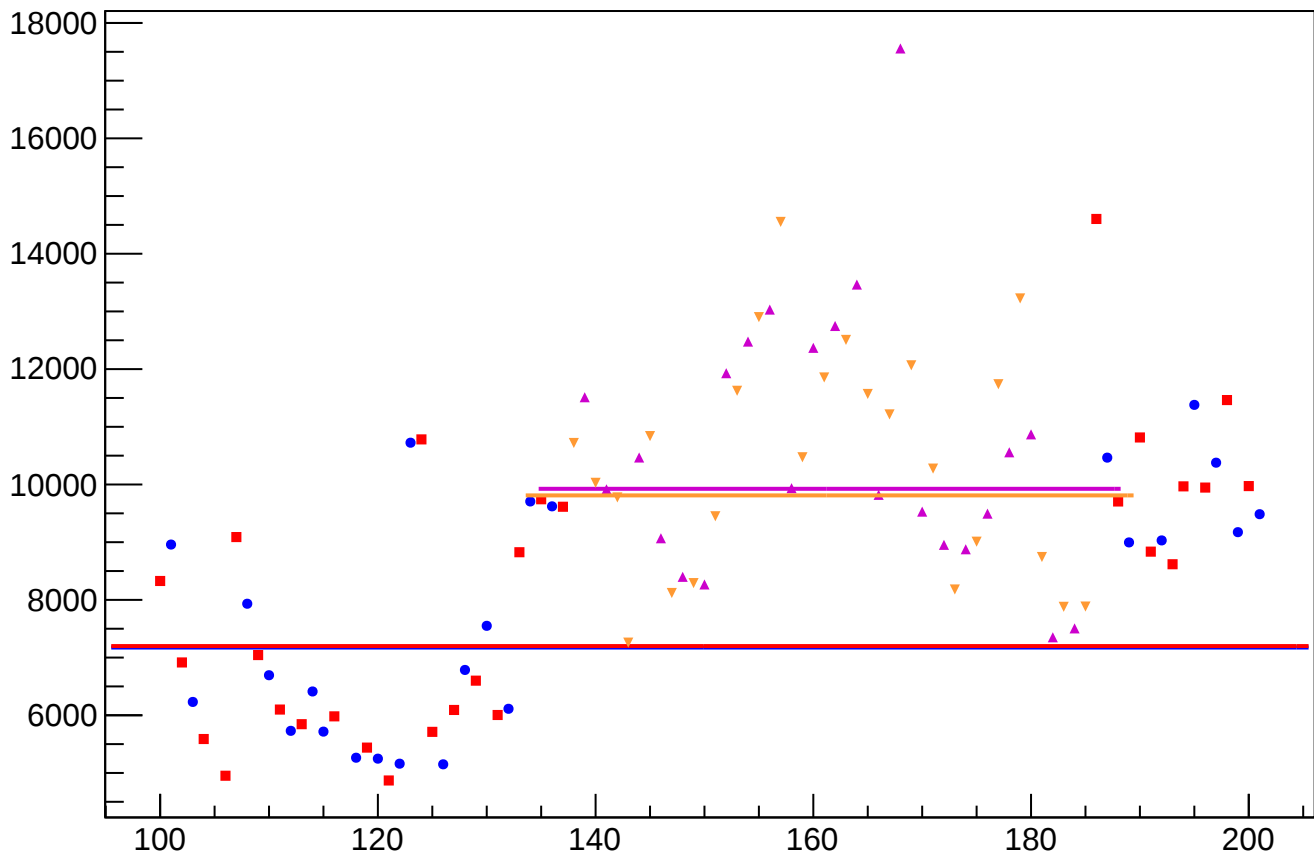
Right: 3950.390+/-1521.349 χ^2/NDF : 57.3/51

In: 2898.319+/-1633.368 χ^2/NDF :34.8/46

Out: 3823.742+/-1559.505 χ^2/NDF :66.6/52

All: 3382.428+/-1127.945 χ^2/NDF : 101.6/99

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7174.136+/-1.564

χ^2/NDF : 1461878.7/23

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

Right: 7187.444+/-1.076 χ^2/NDF : 3339331.8/51

Left Out: 9811.053+/-1.650

χ^2/NDF : 1213831.0/24

In: 8424.092+/-1.155 χ^2/NDF : 4080161.6/46

Right Out: 7199.406+/-1.482

χ^2/NDF : 1877315.5/27

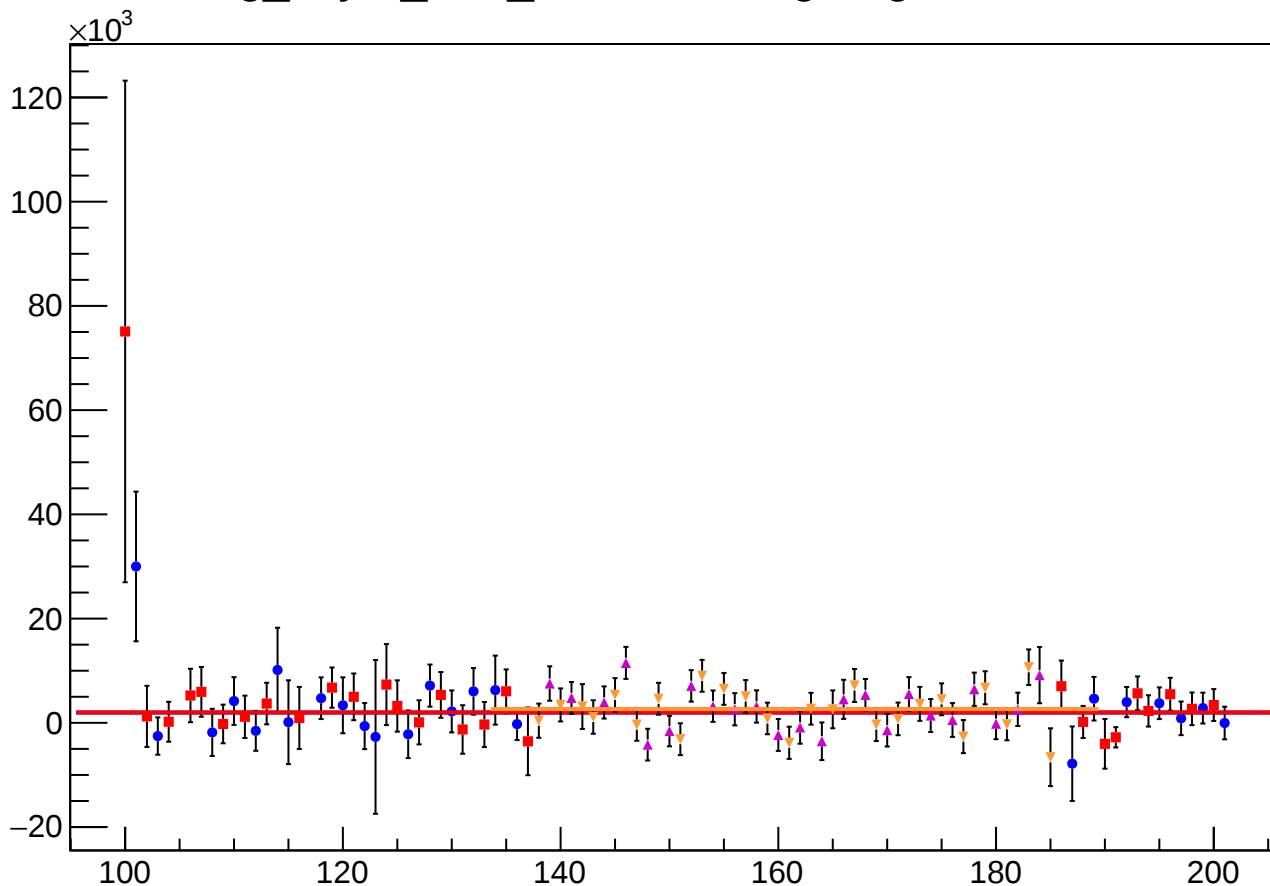
Out: 8365.834+/-1.103 χ^2/NDF : 4477469.7/52

Left In: 9925.337+/-1.713

χ^2/NDF : 1211554.7/22

All: 8393.616+/-0.798 χ^2/NDF : 8558962.3/99

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1973.562 $\pm$ 846.005 χ^2/NDF : 17.2/23

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

Right Out: 1994.987 $\pm$ 737.926 χ^2/NDF : 21.8/27

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

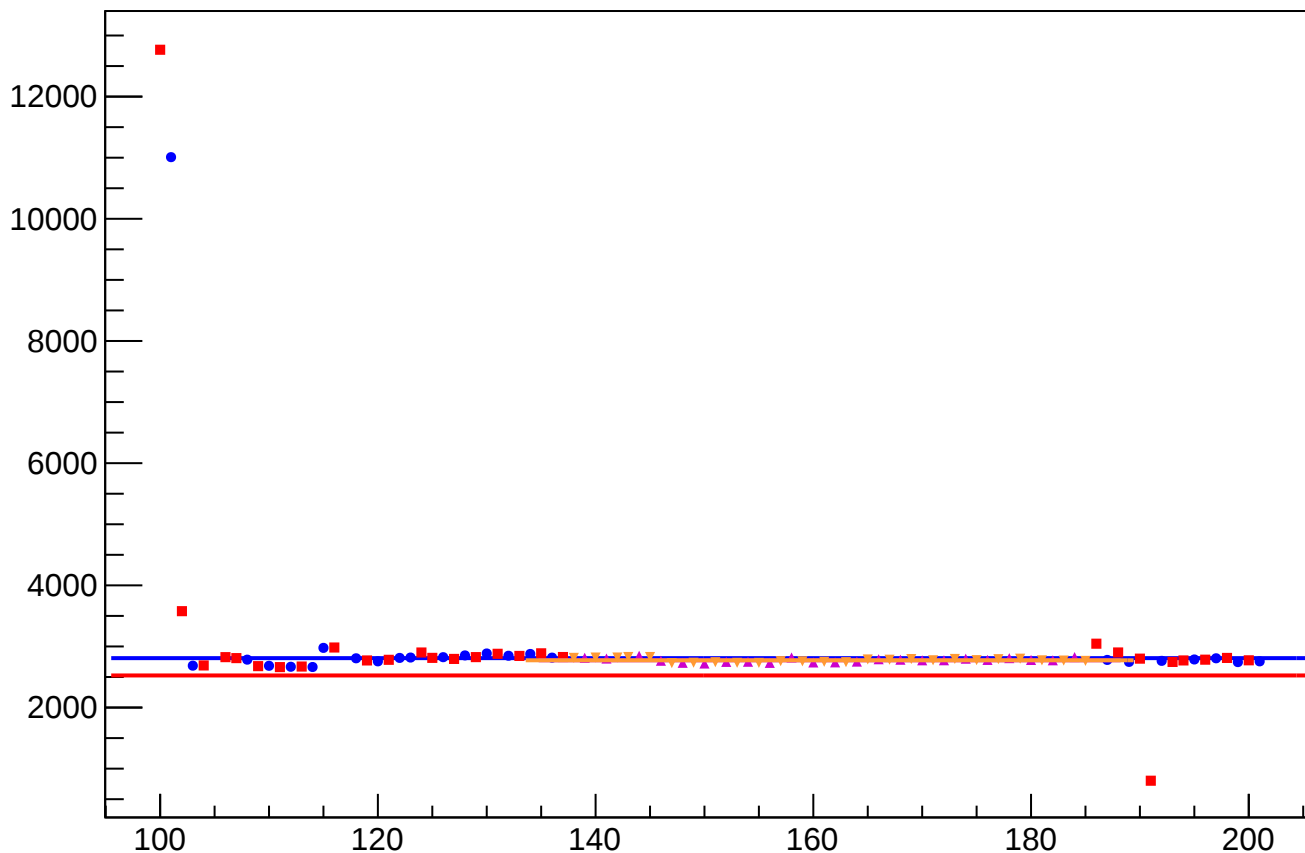
Right: 1985.730 $\pm$ 556.104 χ^2/NDF : 39.0/51

In: 2384.828 $\pm$ 522.608 χ^2/NDF : 52.8/46

Out: 2357.732 $\pm$ 486.113 χ^2/NDF : 57.2/52

All: 2370.301 $\pm$ 355.937 χ^2/NDF : 110.0/99

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2808.762+/-0.598 χ^2/NDF : 664238.0/23

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

Right Out: 2525.364+/-0.522 χ^2/NDF : 1967513.0/27

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

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

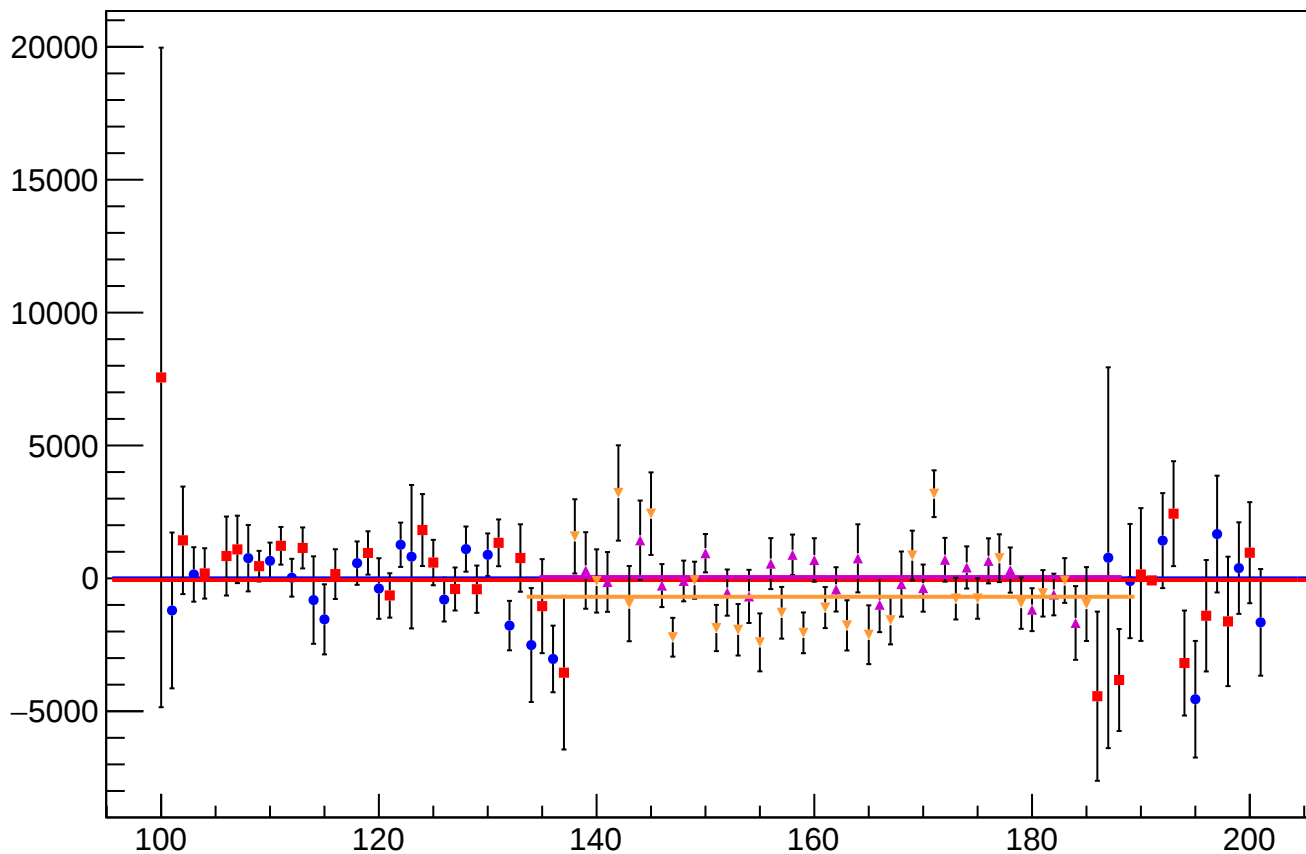
Right: 2647.815+/-0.393 χ^2/NDF : 2759208.1/51

In: 2787.287+/-0.370 χ^2/NDF : 671307.2/46

Out: 2665.940+/-0.344 χ^2/NDF : 2100356.1/52

All: 2722.229+/-0.252 χ^2/NDF : 2829474.6/99

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -0.242 ± 232.113 $\chi^2/\text{NDF}: 27.1/23$

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

Right Out: -62.488 ± 37.893 $\chi^2/\text{NDF}: 29.5/27$

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

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

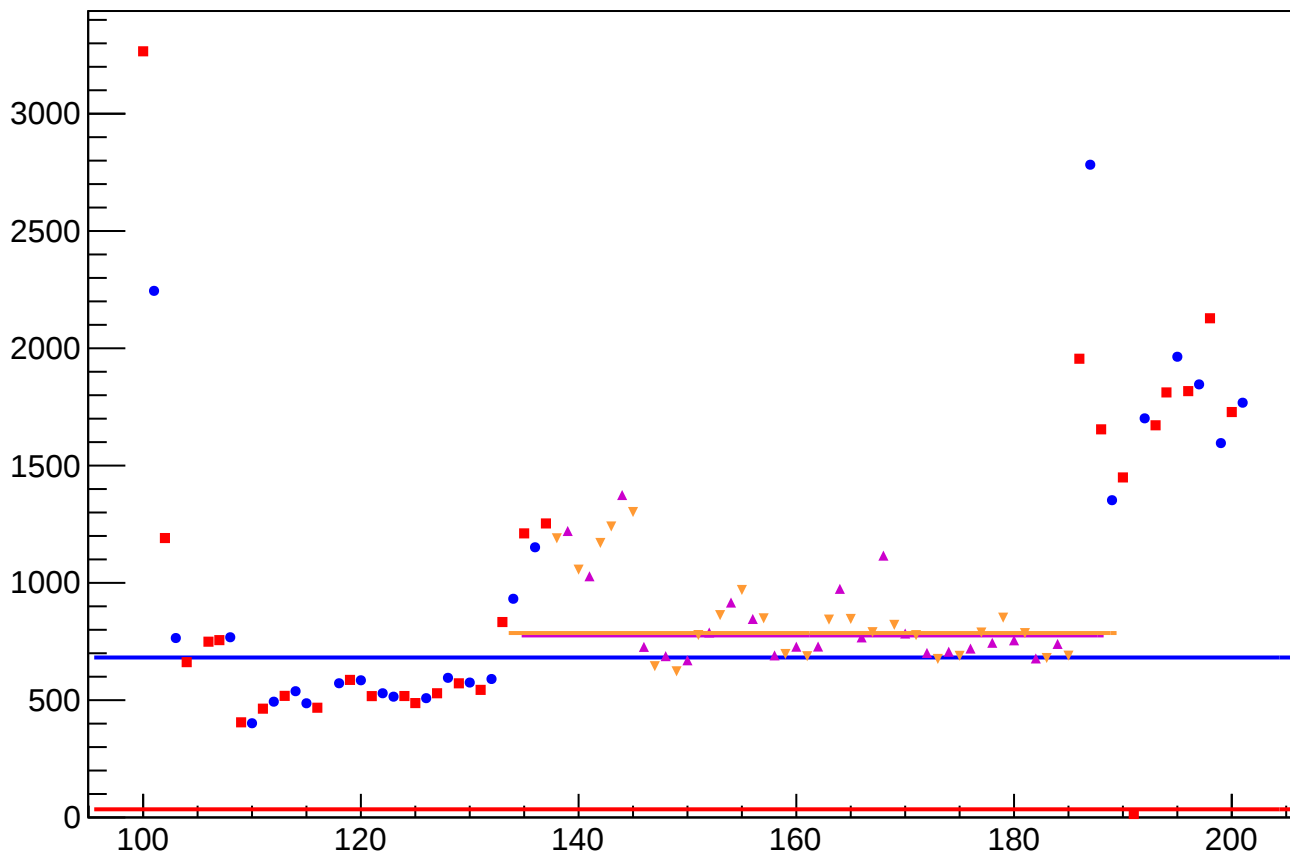
Right: -60.873 ± 37.398 $\chi^2/\text{NDF}: 56.6/51$

In: 29.491 ± 146.648 $\chi^2/\text{NDF}: 40.7/46$

Out: -87.274 ± 37.141 $\chi^2/\text{NDF}: 96.4/52$

All: -80.236 ± 36.004 $\chi^2/\text{NDF}: 137.7/99$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 681.901+/-0.164

χ^2/NDF : 5133141.5/23

Left Out: 786.173+/-0.132

χ^2/NDF :1249536.1/24

Right Out: 34.718+/-0.027

χ^2/NDF : 22970169.5/27

Left In: 775.930+/-0.134

χ^2/NDF :1056766.5/22

Left: 781.103+/-0.094

χ^2/NDF : 2309263.4/47

Right: 51.518+/-0.026

χ^2/NDF : 43248022.4/51

In: 738.397+/-0.104

χ^2/NDF :6387111.1/46

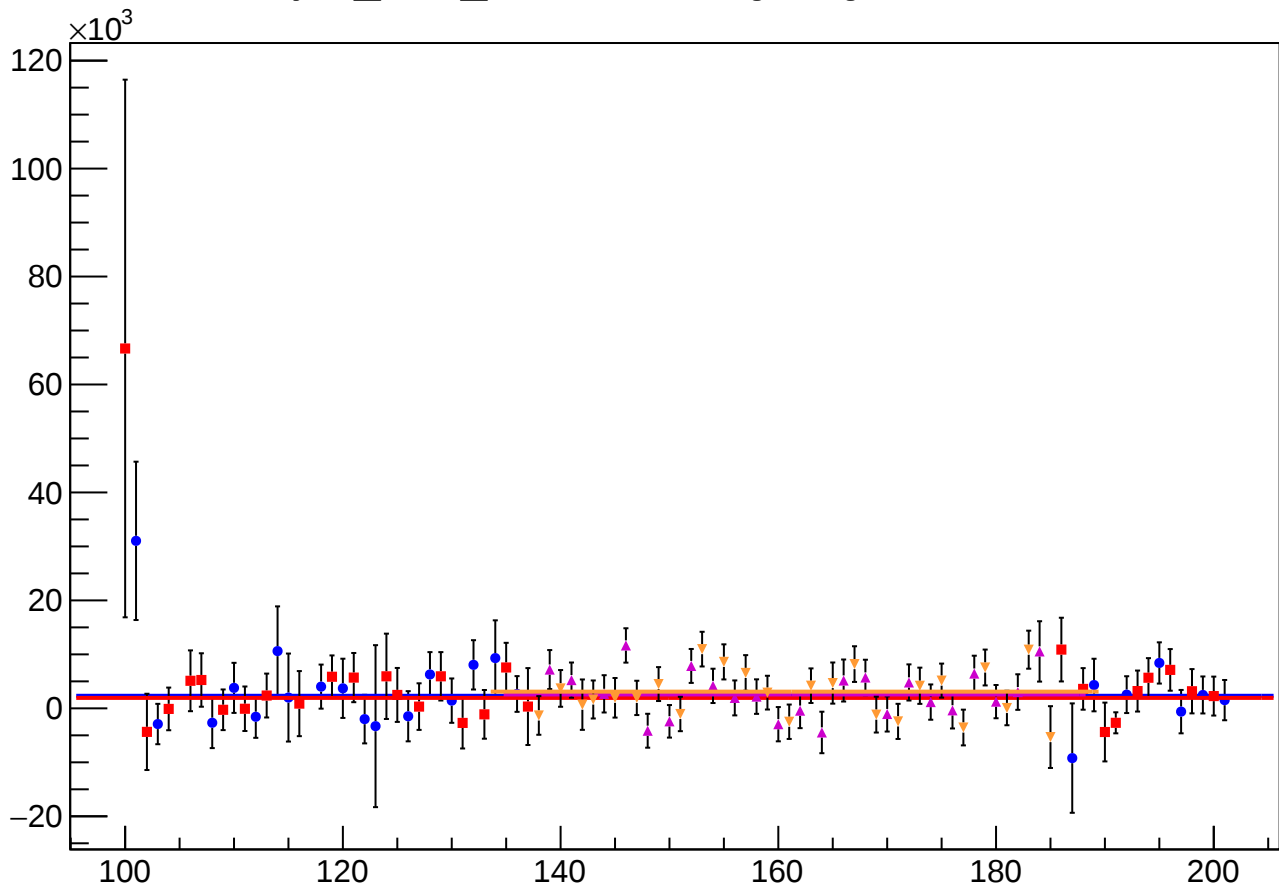
Out: 64.267+/-0.026

χ^2/NDF :55147650.3/52

All: 104.901+/-0.025

χ^2/NDF : 101250881.7/9

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2328.388+/-928.723 χ^2/NDF : 19.1/23

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

Right Out: 1936.801+/-803.453 χ^2/NDF : 22.5/27

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

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

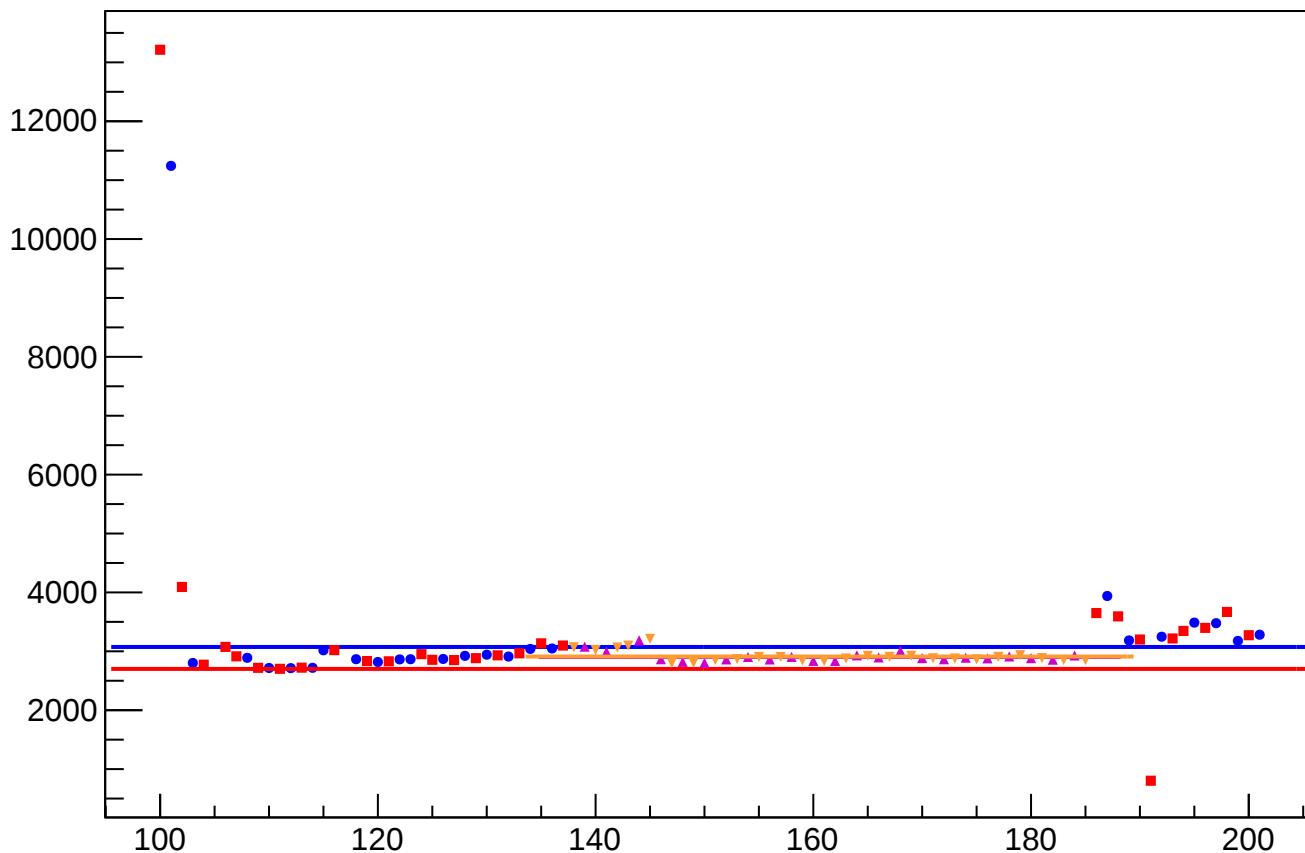
Right: 2104.422+/-607.627 χ^2/NDF : 41.7/51

In: 2485.179+/-556.851 χ^2/NDF : 54.8/46

Out: 2612.756+/-518.390 χ^2/NDF : 62.4/52

All: 2553.525+/-379.426 χ^2/NDF : 117.3/99

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3073.795+/-0.657 χ^2/NDF : 764709.0/23

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

Right Out: 2701.219+/-0.568 χ^2/NDF : 2635862.1/27

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

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

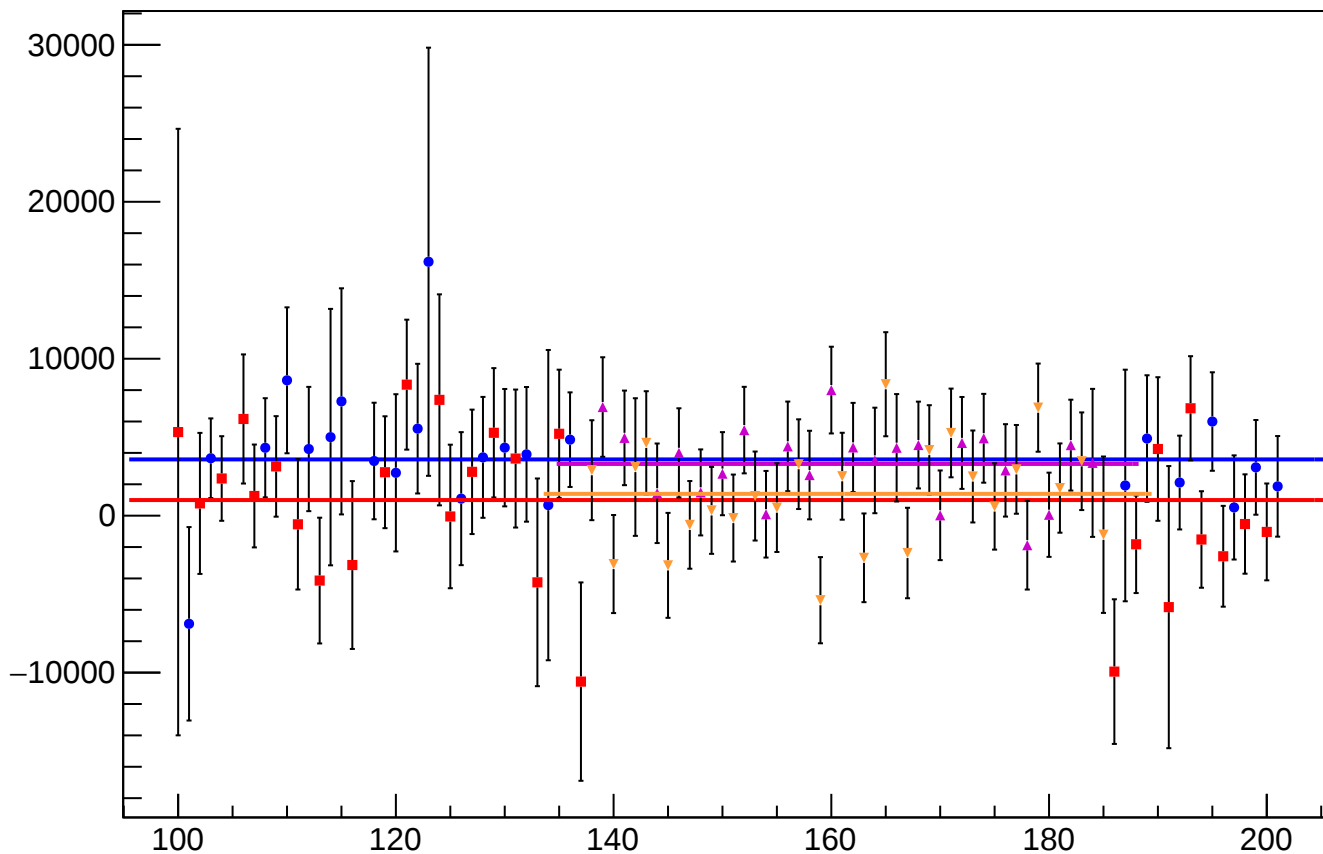
Right: 2860.703+/-0.430 χ^2/NDF : 3584664.9/51

In: 2964.665+/-0.394 χ^2/NDF :836662.8/46

Out: 2823.803+/-0.367 χ^2/NDF :2752264.5/52

All: 2889.202+/-0.268 χ^2/NDF : 3657488.6/99

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3584.222+/-799.857 χ^2/NDF : 8.4/23

Left Out: 1390.275+/-596.516 χ^2/NDF :29.2/24

Right Out: 994.639+/-746.841 χ^2/NDF : 29.0/27

Left In: 3295.367+/-609.991 χ^2/NDF :14.9/22

Left: 2321.546+/-426.485 χ^2/NDF : 49.0/47

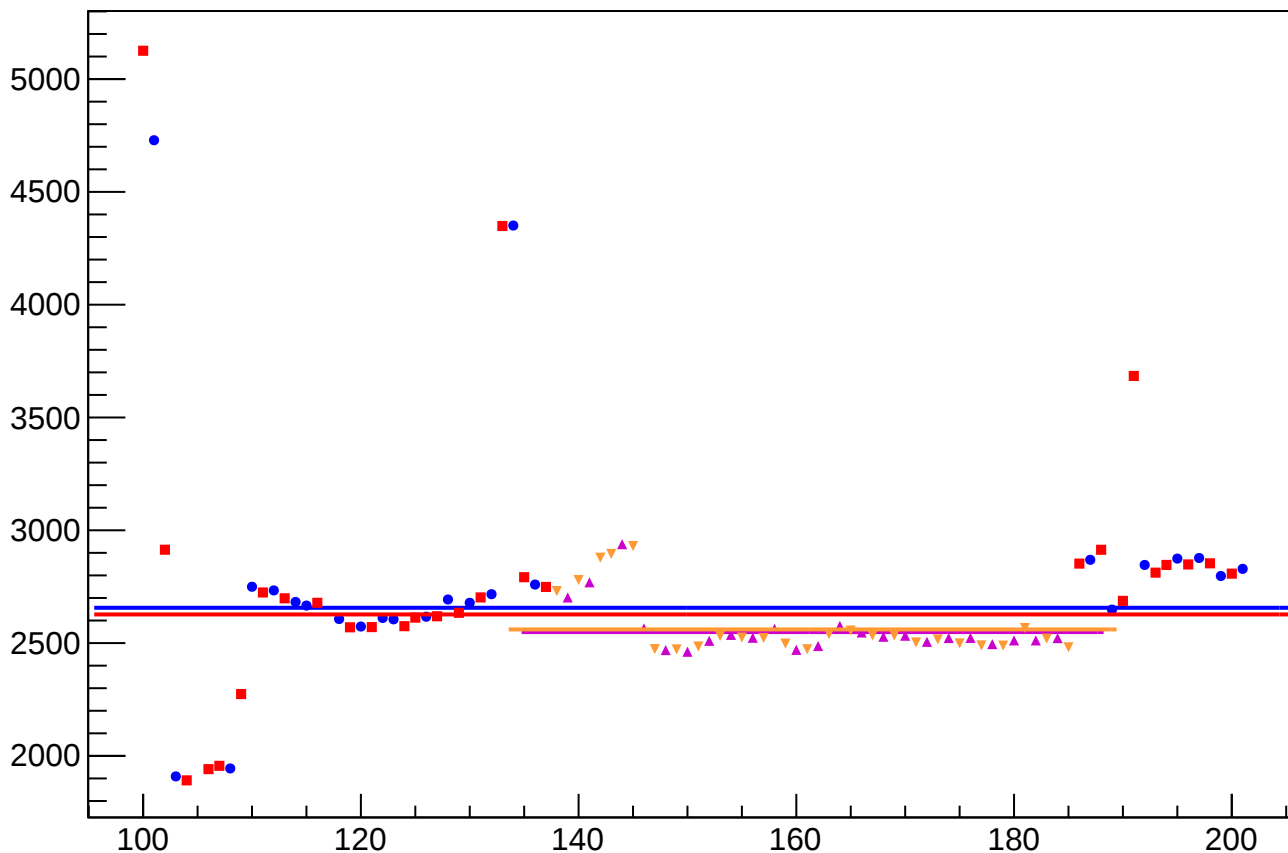
Right: 2200.772+/-545.877 χ^2/NDF : 43.0/51

In: 3401.587+/-485.038 χ^2/NDF :23.3/46

Out: 1236.182+/-466.092 χ^2/NDF :58.3/52

All: 2275.768+/-336.075 χ^2/NDF : 92.0/99

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2656.520+/-0.566 χ^2/NDF : 604395.5/23

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

Right Out: 2626.995+/-0.528 χ^2/NDF : 590045.1/27

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

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

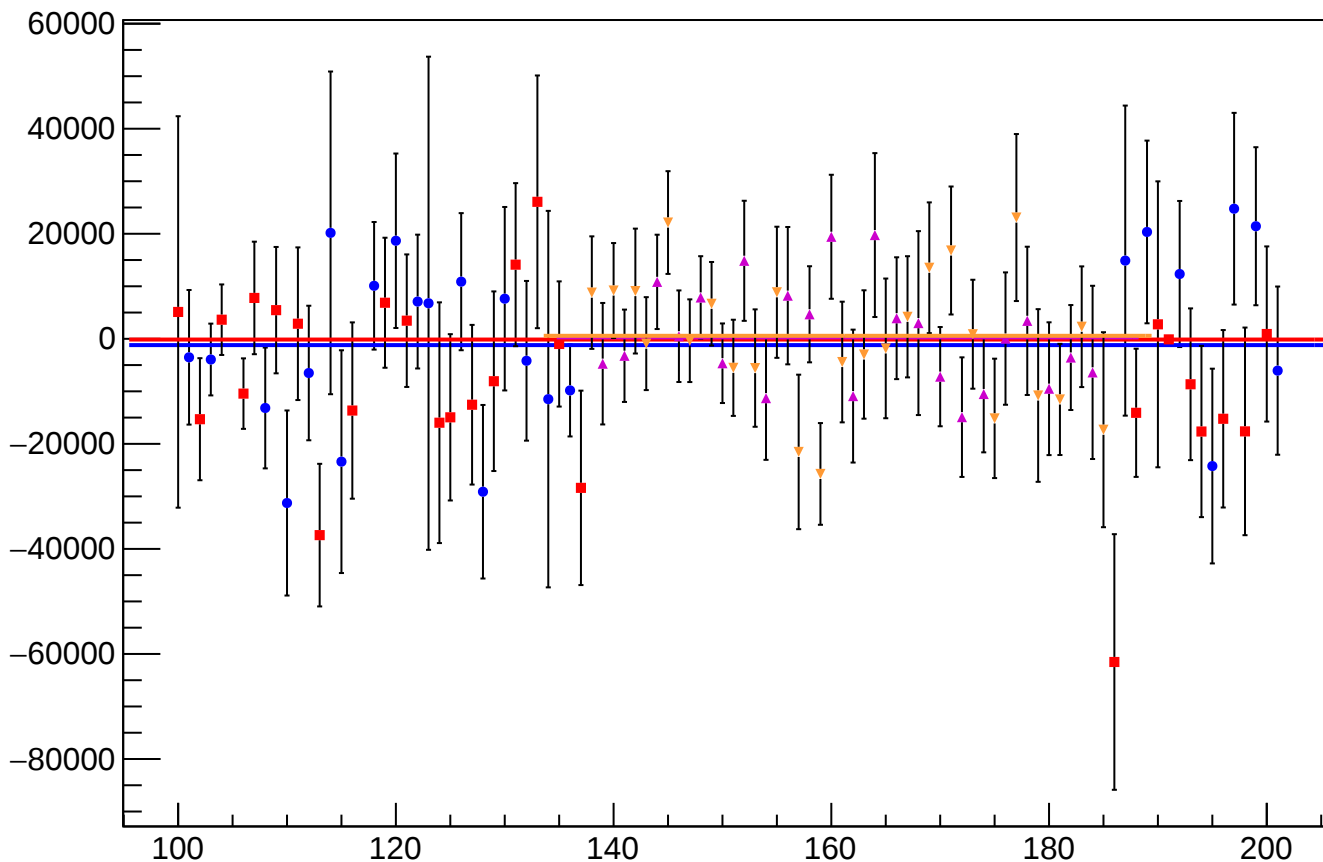
Right: 2640.746+/-0.386 χ^2/NDF : 1195896.5/51

In: 2588.456+/-0.343 χ^2/NDF : 682567.2/46

Out: 2586.418+/-0.330 χ^2/NDF : 686486.8/52

All: 2587.396+/-0.238 χ^2/NDF : 1369072.3/99

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -1197.754 $\pm$ 2893.277 χ^2 /NDF: 22.4/23

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

Right Out: -139.792 $\pm$ 194.991 χ^2 /NDF: 31.2/27

Left In: 275.116 $\pm$ 2242.836 χ^2 /NDF:15.7/22

Left: 427.723 $\pm$ 1564.847 χ^2 /NDF: 43.9/47

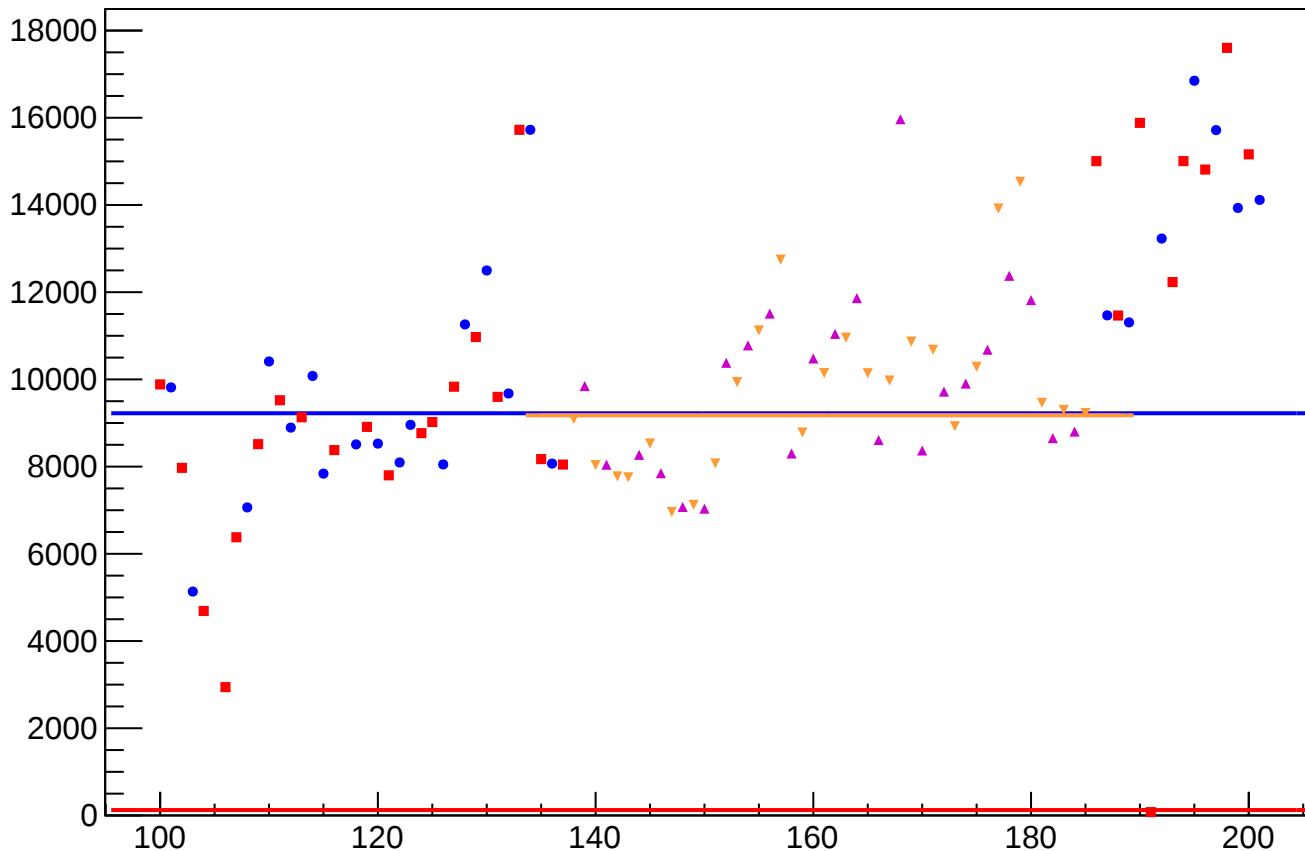
Right: -144.576 $\pm$ 194.549 χ^2 /NDF: 53.7/51

In: -277.738 $\pm$ 1772.609 χ^2 /NDF:38.3/46

Out: -134.161 $\pm$ 194.218 χ^2 /NDF:59.5/52

All: -135.865 $\pm$ 193.063 χ^2 /NDF: 97.8/99

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 9223.687 $\pm$ 2.046

χ^2 /NDF: 2236967.3/23

Left: 9179.424 $\pm$ 1.107

χ^2 /NDF: 2412668.1/47

Left Out: 9177.688 $\pm$ 1.545

χ^2 /NDF: 1176195.8/24

Right: 165.372 $\pm$ 0.138

χ^2 /NDF: 46299069.6/51

Right Out: 124.229 $\pm$ 0.138

χ^2 /NDF: 24369058.8/27

In: 9197.182 $\pm$ 1.253

χ^2 /NDF: 3473705.7/46

Out: 195.800 $\pm$ 0.137

χ^2 /NDF: 59629787.4/52

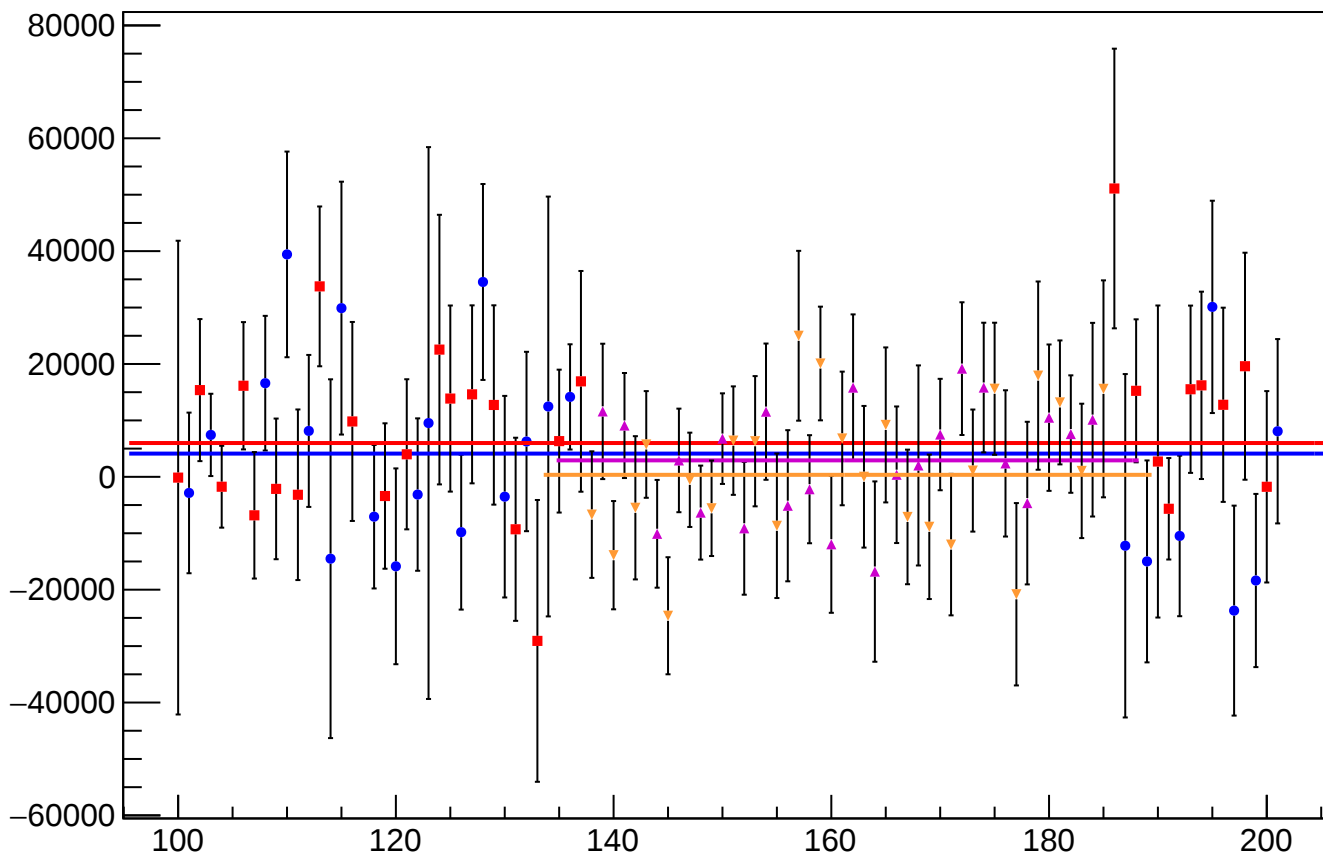
Left In: 9181.254 $\pm$ 1.586

χ^2 /NDF: 1236469.7/22

All: 302.578 $\pm$ 0.137

χ^2 /NDF: 114064693.2/5

asym_atr2_mean vs Slug, Sign Corrected



Right In: 4118.580 $\pm$ 3036.400 χ^2/NDF : 23.8/23

Left Out: 355.717 $\pm$ 2281.682 χ^2/NDF : 26.2/24

Right Out: 5992.006 $\pm$ 2688.577 χ^2/NDF : 20.6/27

Left In: 2918.356 $\pm$ 2338.461 χ^2/NDF : 14.9/22

Left: 1605.548 $\pm$ 1633.097 χ^2/NDF : 41.8/47

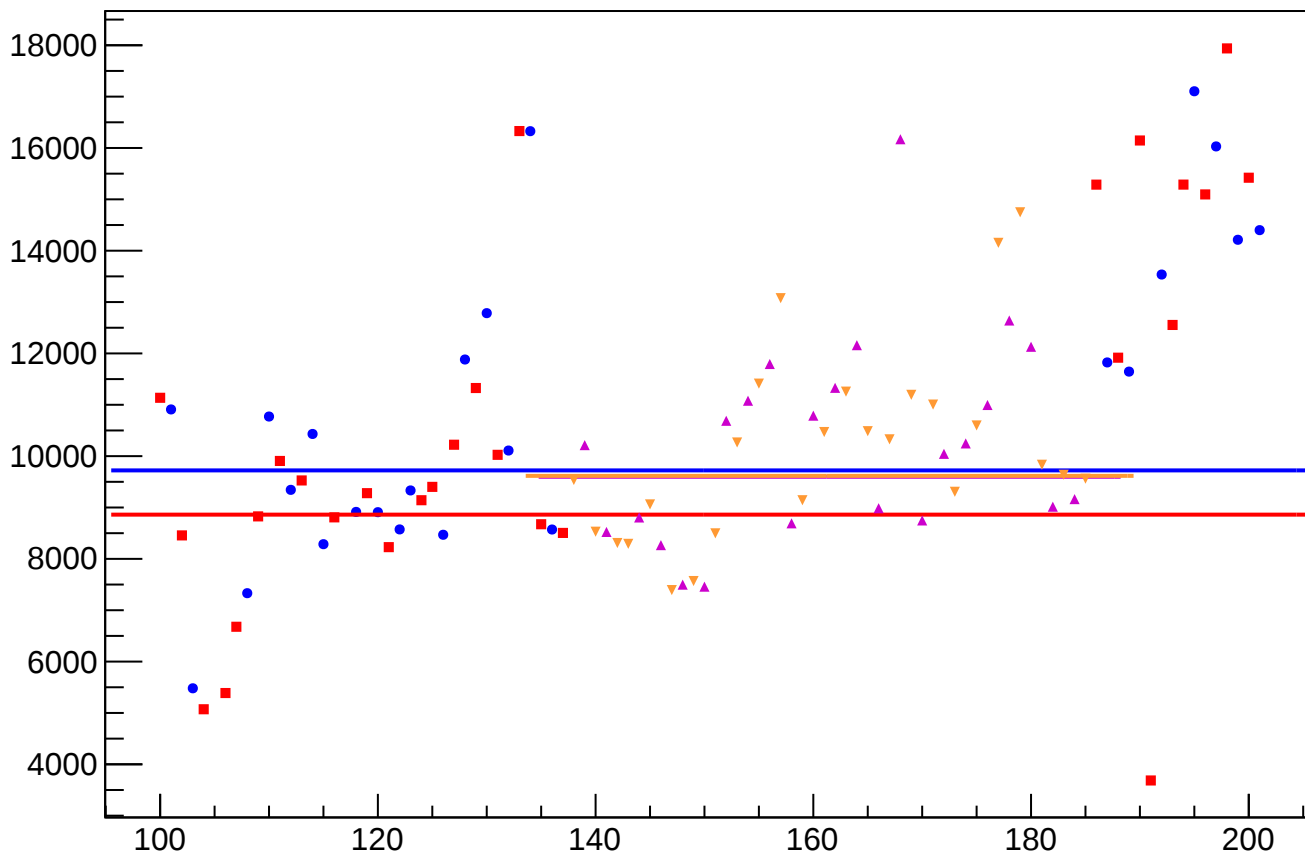
Right: 5168.695 $\pm$ 2012.902 χ^2/NDF : 44.6/51

In: 3365.200 $\pm$ 1852.704 χ^2/NDF : 38.8/46

Out: 2715.514 $\pm$ 1739.655 χ^2/NDF : 49.3/52

All: 3019.932 $\pm$ 1268.205 χ^2/NDF : 88.2/99

asym_atr2_rms vs Slug, Sign Corrected



Right In: 9722.519+/-2.147

χ^2/NDF : 2066094.9/23

Left Out: 9616.245+/-1.613

χ^2/NDF : 1011665.6/24

Right Out: 8861.114+/-1.901

χ^2/NDF : 3531847.7/27

Left In: 9598.531+/-1.654

χ^2/NDF : 1082171.6/22

Left: 9607.606+/-1.155

χ^2/NDF : 2093896.0/47

Right: 9239.659+/-1.423

χ^2/NDF : 5688170.4/51

In: 9644.692+/-1.310

χ^2/NDF : 3150359.7/46

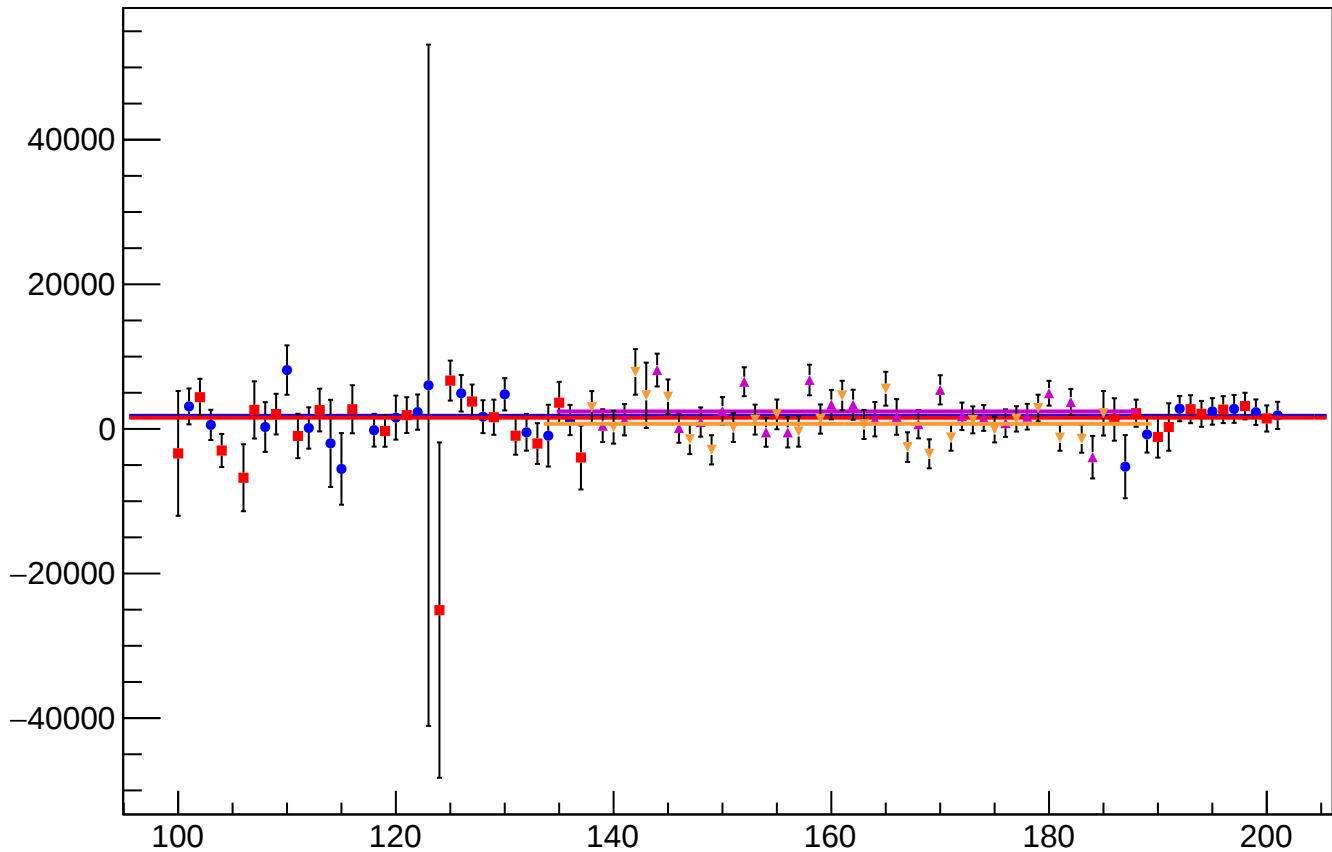
Out: 9300.075+/-1.230

χ^2/NDF : 4635233.2/52

All: 9461.547+/-0.897

χ^2/NDF : 7822367.7/99

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1808.346 $\pm$ 504.798 χ^2/NDF : 17.1/23

Left Out: 709.722 $\pm$ 417.377 χ^2/NDF : 34.8/24

Right Out: 1554.972 $\pm$ 482.819 χ^2/NDF : 23.5/27

Left In: 2414.749 $\pm$ 423.472 χ^2/NDF : 34.0/22

Left: 1549.879 $\pm$ 297.262 χ^2/NDF : 77.0/47

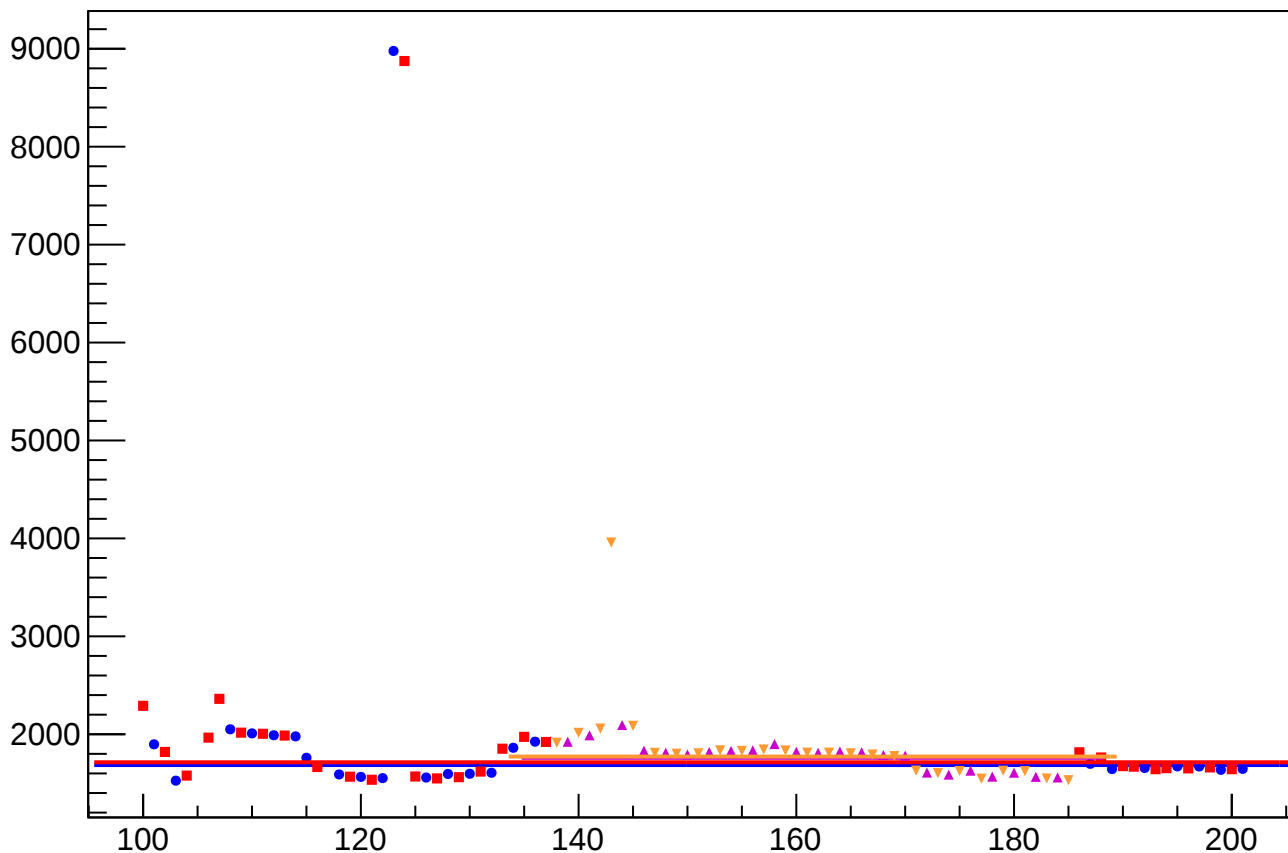
Right: 1676.023 $\pm$ 348.916 χ^2/NDF : 40.7/51

In: 2164.270 $\pm$ 324.431 χ^2/NDF : 51.9/46

Out: 1071.223 $\pm$ 315.752 χ^2/NDF : 60.0/52

All: 1602.931 $\pm$ 226.277 χ^2/NDF : 117.8/99

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1685.541+/-0.357 χ^2/NDF : 201790.4/23

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

Right Out: 1713.969+/-0.341 χ^2/NDF : 417896.7/27

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

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

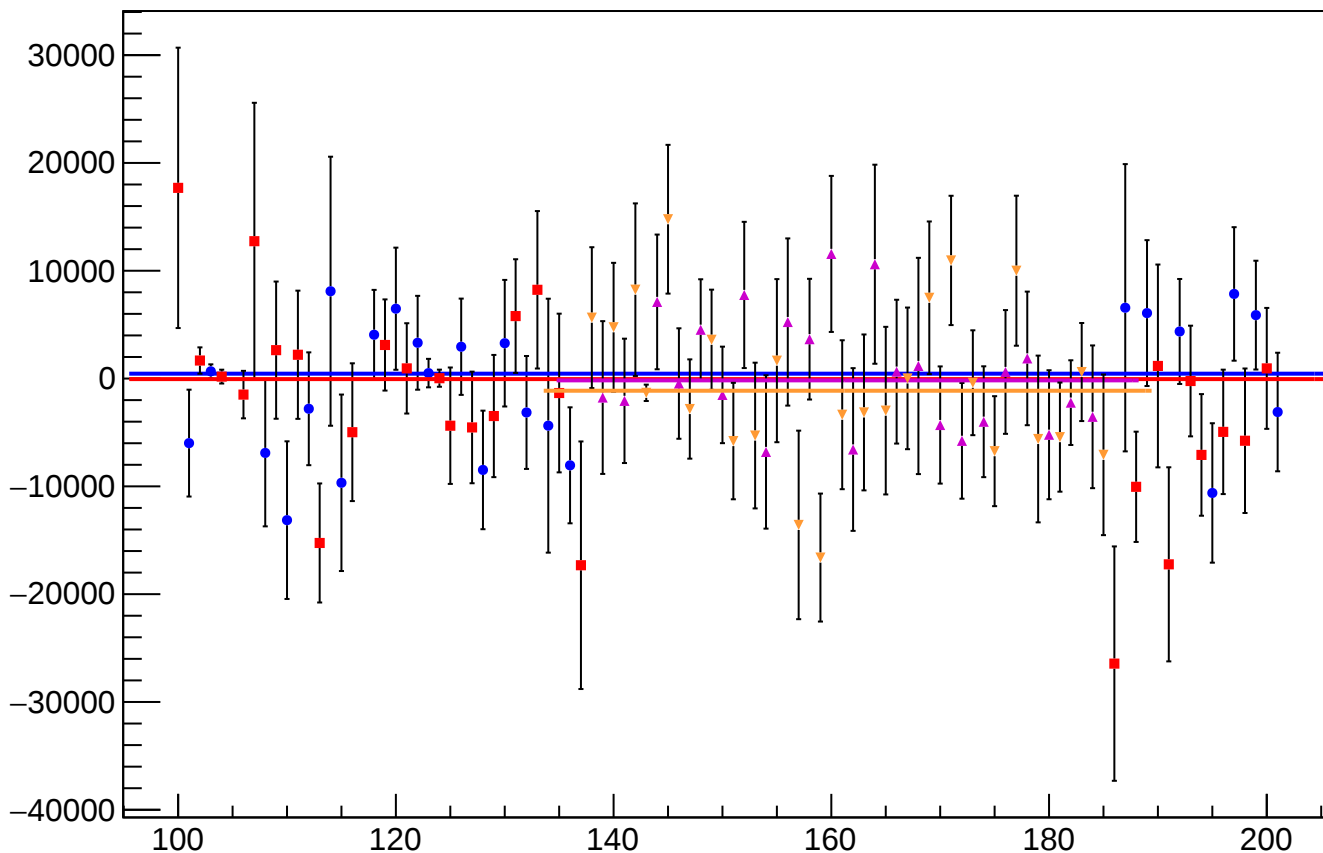
Right: 1700.420+/-0.246 χ^2/NDF : 623007.0/51

In: 1729.009+/-0.229 χ^2/NDF : 441948.1/46

Out: 1747.141+/-0.223 χ^2/NDF : 1136974.4/52

All: 1738.330+/-0.160 χ^2/NDF : 1582133.9/99

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 451.898 $\pm$ 526.102 χ^2 /NDF: 24.8/23

Left Out: -1129.807 $\pm$ 647.600 χ^2 /NDF:31.5/24

Right Out: -51.379 $\pm$ 424.824 χ^2 /NDF: 37.5/27

Left In: -168.182 $\pm$ 1232.411 χ^2 /NDF:14.2/22

Left: -921.734 $\pm$ 573.272 χ^2 /NDF: 46.1/47

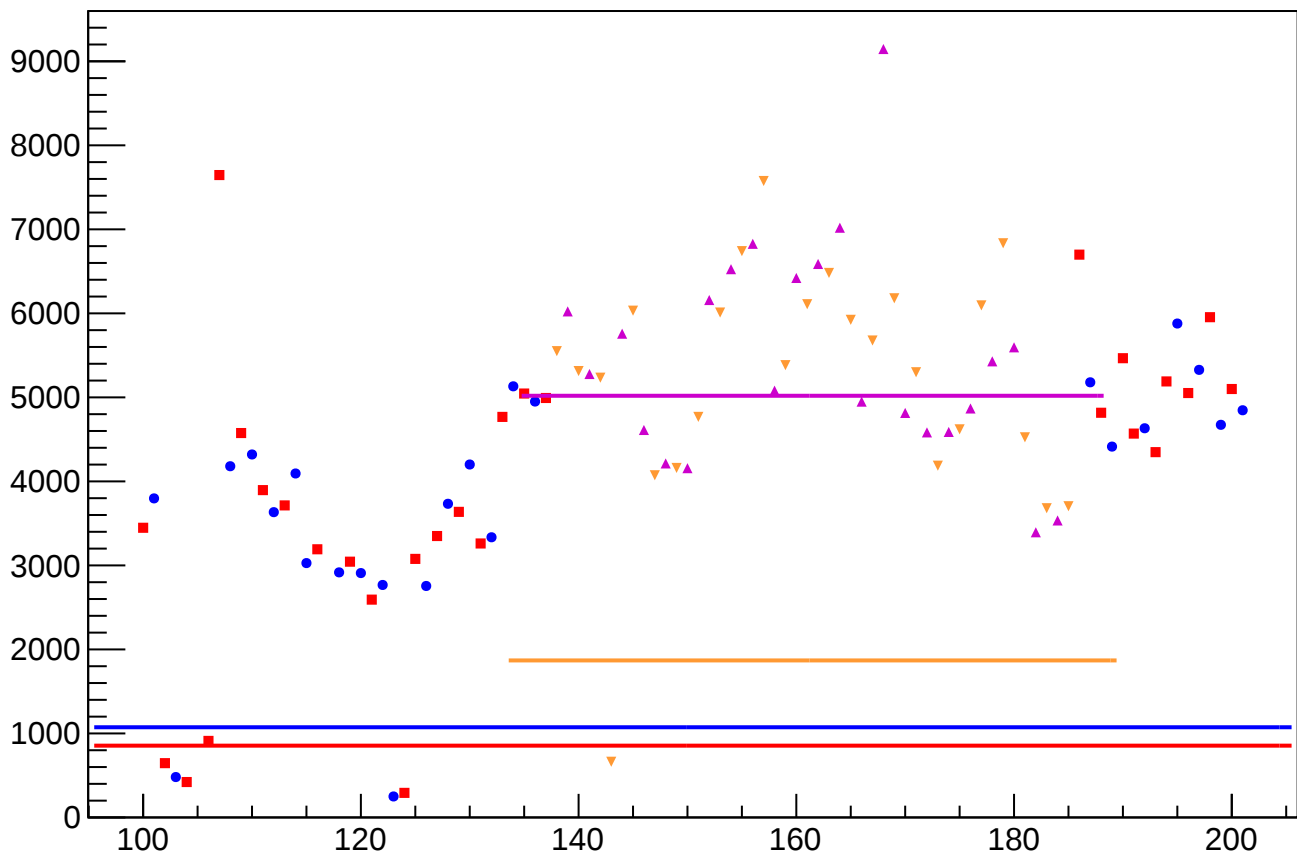
Right: 147.259 $\pm$ 330.520 χ^2 /NDF: 62.9/51

In: 356.317 $\pm$ 483.858 χ^2 /NDF:39.2/46

Out: -375.837 $\pm$ 355.214 χ^2 /NDF:70.9/52

All: -119.434 $\pm$ 286.338 χ^2 /NDF: 111.6/99

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1073.596 $\pm$ 0.372

χ^2 /NDF: 14198873.1/23

Left: 2550.597 $\pm$ 0.405

χ^2 /NDF: 31661059.7/47

Left Out: 1868.983 $\pm$ 0.458

χ^2 /NDF: 19852416.6/24

Right: 941.029 $\pm$ 0.234

χ^2 /NDF: 31169538.4/51

Right Out: 854.589 $\pm$ 0.300

χ^2 /NDF: 16760875.4/27

In: 1681.771 $\pm$ 0.342

χ^2 /NDF: 33106882.1/46

Left In: 5019.114 $\pm$ 0.871

χ^2 /NDF: 1569031.9/22

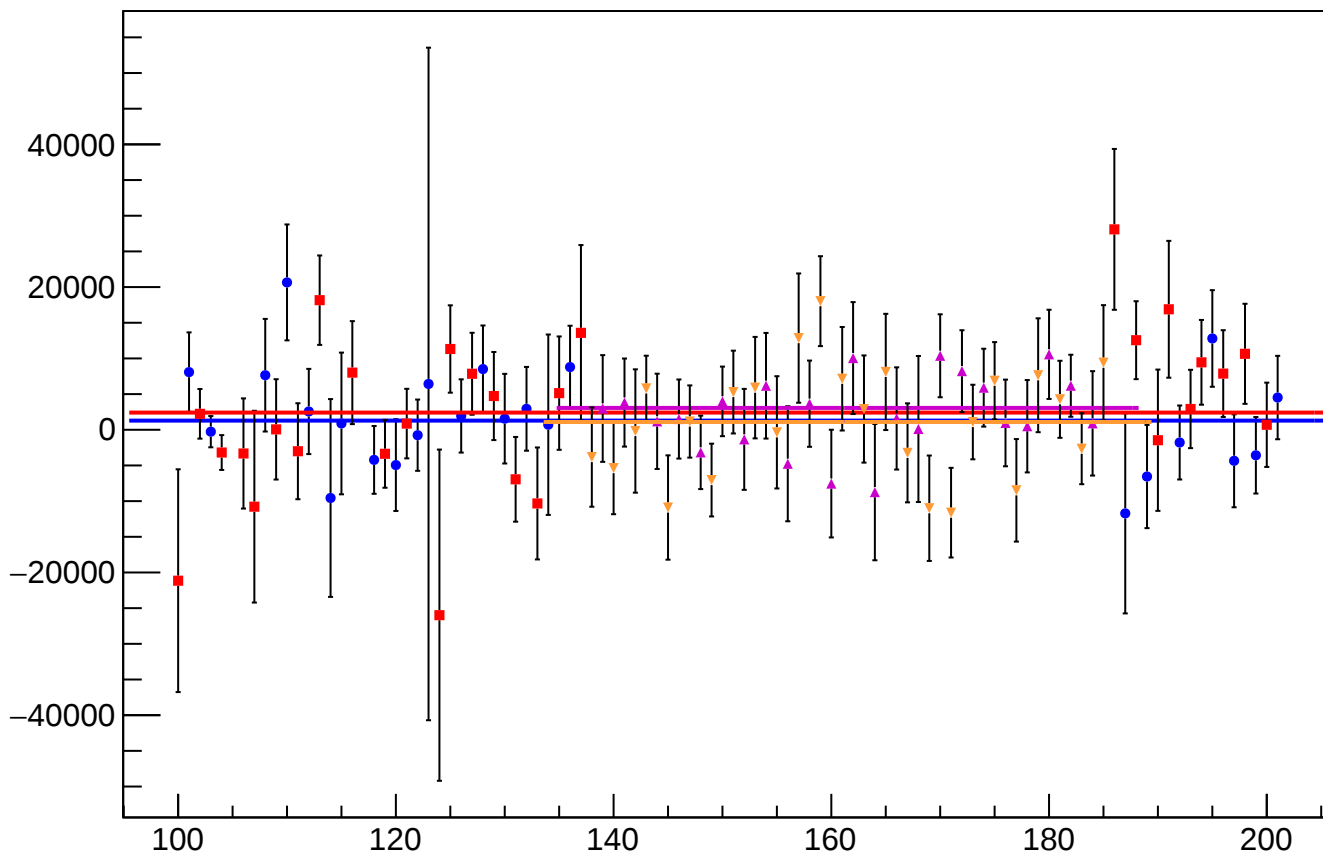
Out: 1159.782 $\pm$ 0.251

χ^2 /NDF: 40044071.8/52

All: 1342.585 $\pm$ 0.202

χ^2 /NDF: 74663449.6/95

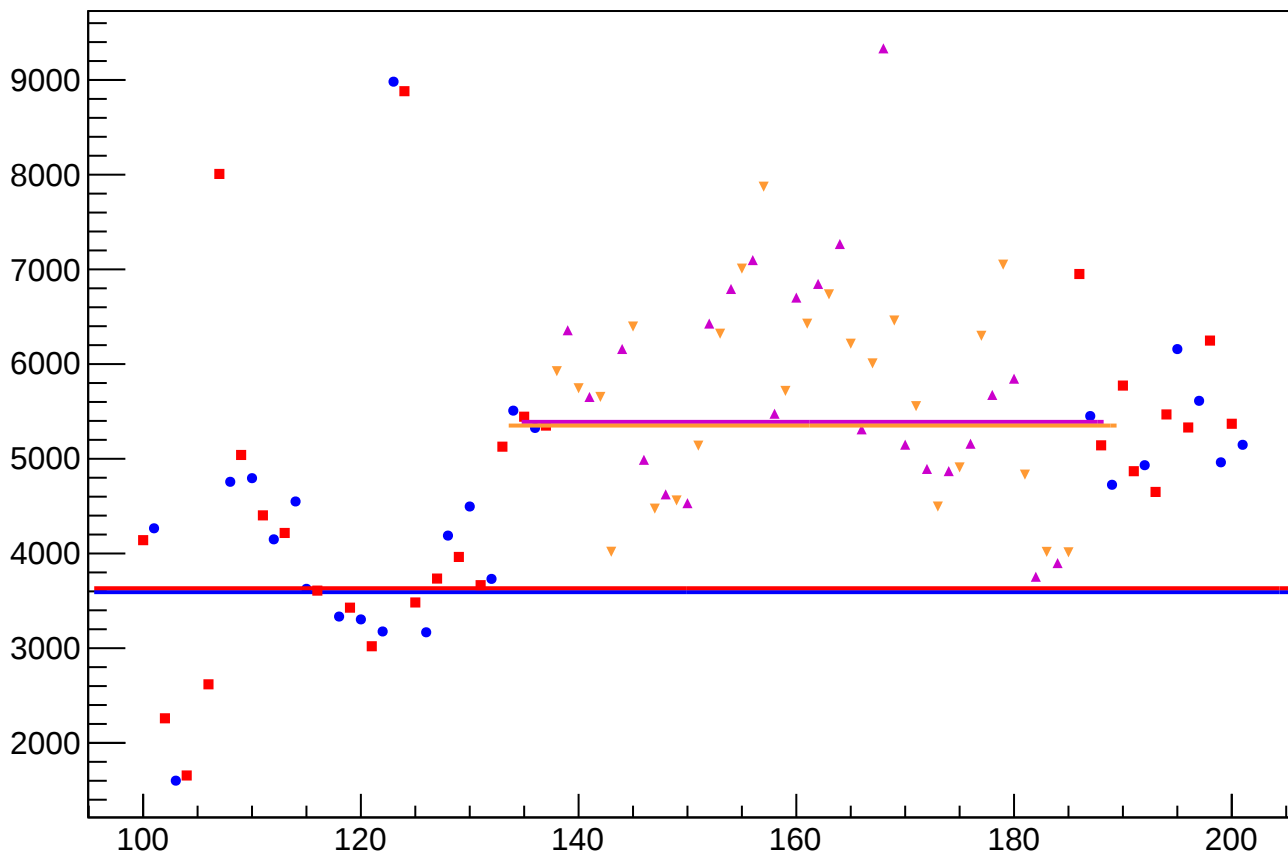
asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1284.958+/-1154.181 χ^2/NDF : 21.8/23
 Left Out: 1094.317+/-1273.113 χ^2/NDF :32.0/24
 Right Out: 2410.002+/-1116.326 χ^2/NDF : 43.8/27
 Left In: 3064.775+/-1318.173 χ^2/NDF :12.6/22

Left: 2045.291+/-915.742 χ^2/NDF : 45.7/47
 Right: 1866.232+/-802.411 χ^2/NDF : 66.1/51
 In: 2057.328+/-868.355 χ^2/NDF :35.4/46
 Out: 1838.120+/-839.352 χ^2/NDF :76.3/52
 All: 1944.002+/-603.504 χ^2/NDF : 111.8/99

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3591.787 $\pm$ 0.816 χ^2 /NDF: 3119186.1/23

Left Out: 5350.804 $\pm$ 0.900 χ^2 /NDF:1241497.9/24

Right Out: 3633.118 $\pm$ 0.781 χ^2 /NDF: 3713427.3/27

Left In: 5389.724 $\pm$ 0.932 χ^2 /NDF:1309863.0/22

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

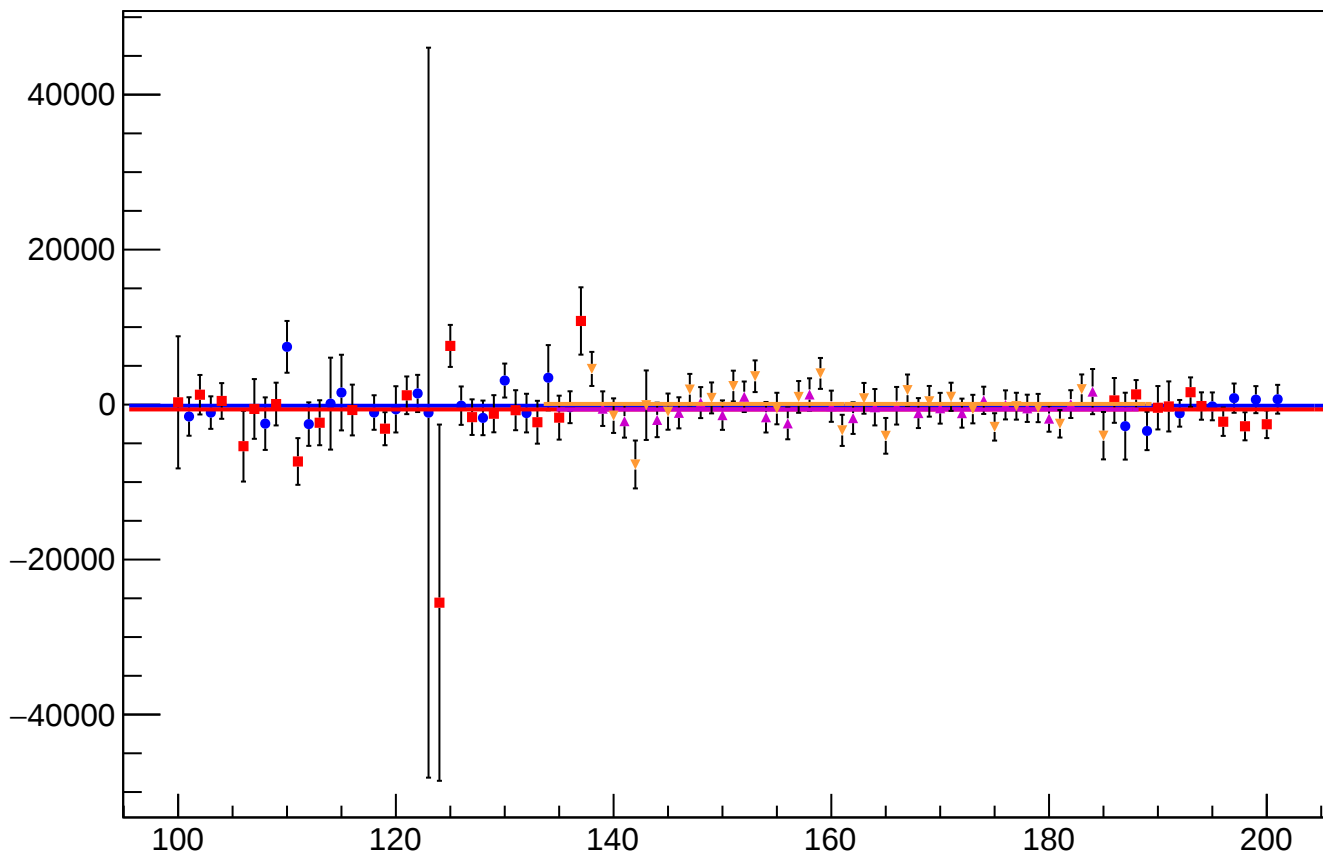
Right: 3613.369 $\pm$ 0.564 χ^2 /NDF: 6833952.6/51

In: 4372.017 $\pm$ 0.614 χ^2 /NDF:6535164.2/46

Out: 4370.443 $\pm$ 0.590 χ^2 /NDF:7032832.1/52

All: 4371.198 $\pm$ 0.425 χ^2 /NDF: 13567999.7/99

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -148.354+/-497.639 χ^2 /NDF: 14.3/23

Left Out: 86.214+/-411.530 χ^2 /NDF:36.0/24

Right Out: -626.077+/-475.742 χ^2 /NDF: 33.2/27

Left In: -640.235+/-417.645 χ^2 /NDF:6.2/22

Left: -271.653+/-293.134 χ^2 /NDF: 43.7/47

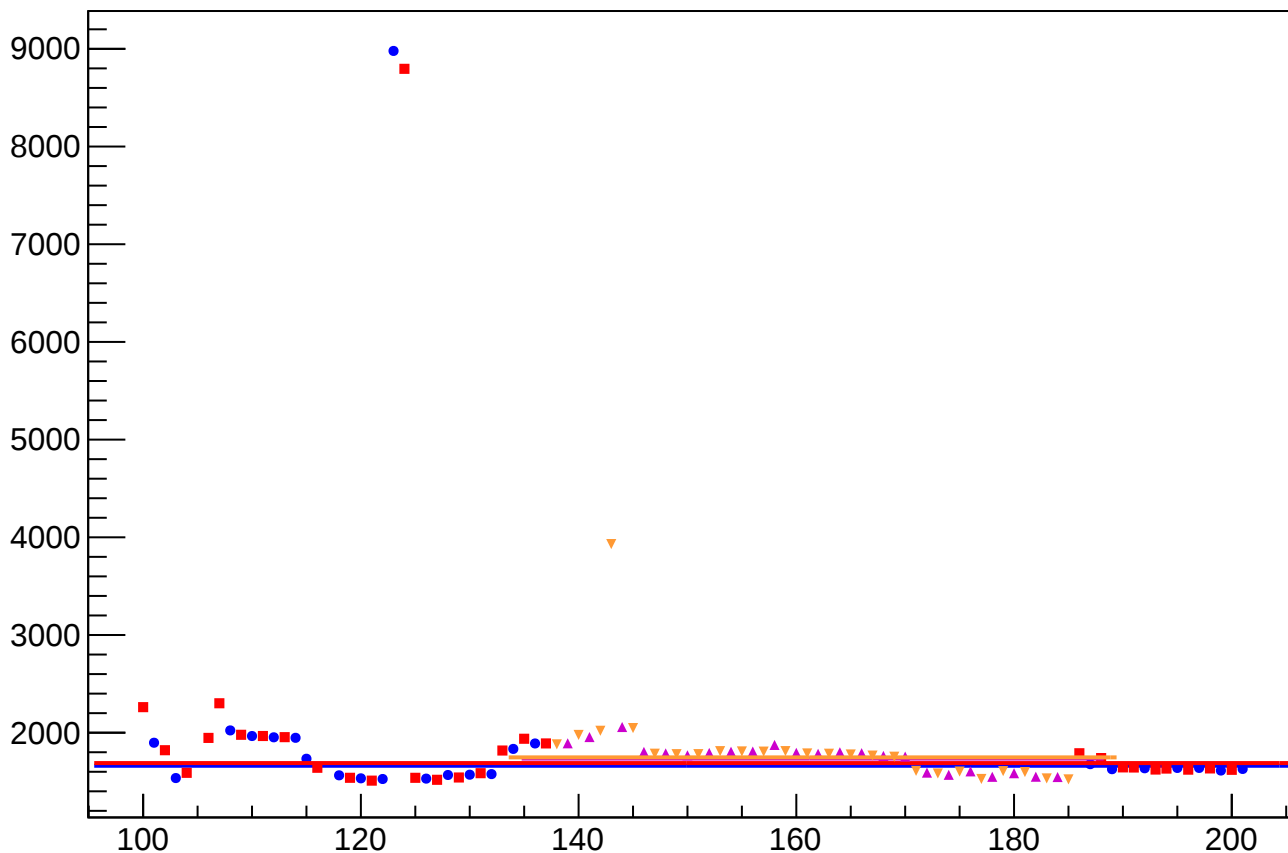
Right: -397.956+/-343.881 χ^2 /NDF: 47.9/51

In: -436.958+/-319.910 χ^2 /NDF:21.0/46

Out: -218.651+/-311.241 χ^2 /NDF:70.5/52

All: -324.807+/-223.083 χ^2 /NDF: 91.7/99

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1661.678+/-0.352 χ^2/NDF : 200095.5/23

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1689.138+/-0.336 χ^2/NDF : 414633.2/27

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

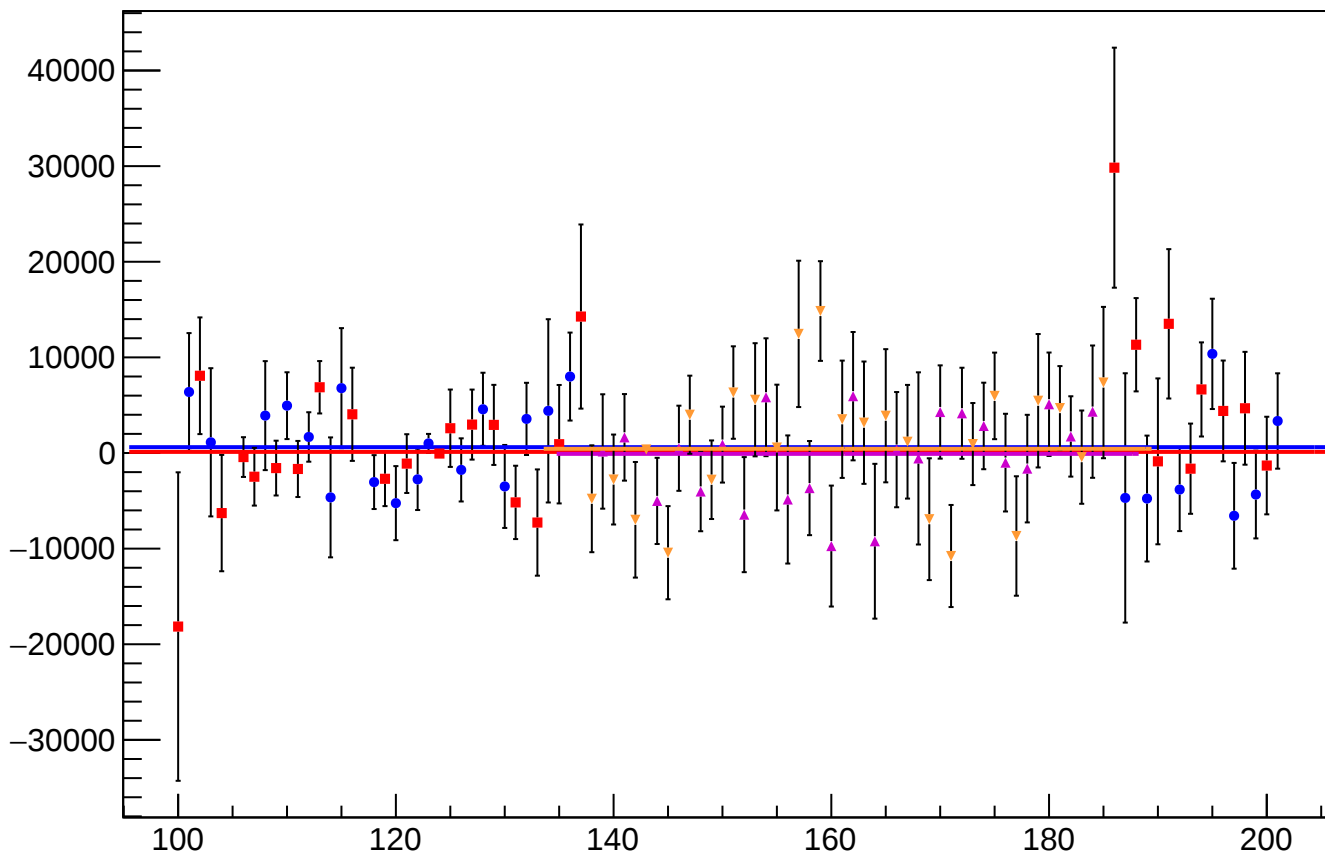
Right: 1676.056+/-0.243 χ^2/NDF : 617917.4/51

In: 1705.016+/-0.226 χ^2/NDF : 432714.0/46

Out: 1722.354+/-0.220 χ^2/NDF : 1129979.8/52

All: 1713.931+/-0.158 χ^2/NDF : 1565714.6/99

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 610.243+/-669.063 χ^2/NDF : 23.5/23

Left Out: 442.187+/-440.335 χ^2/NDF :33.9/24

Right Out: 116.755+/-351.361 χ^2/NDF : 38.0/27

Left In: -88.508+/-1094.838 χ^2/NDF :13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

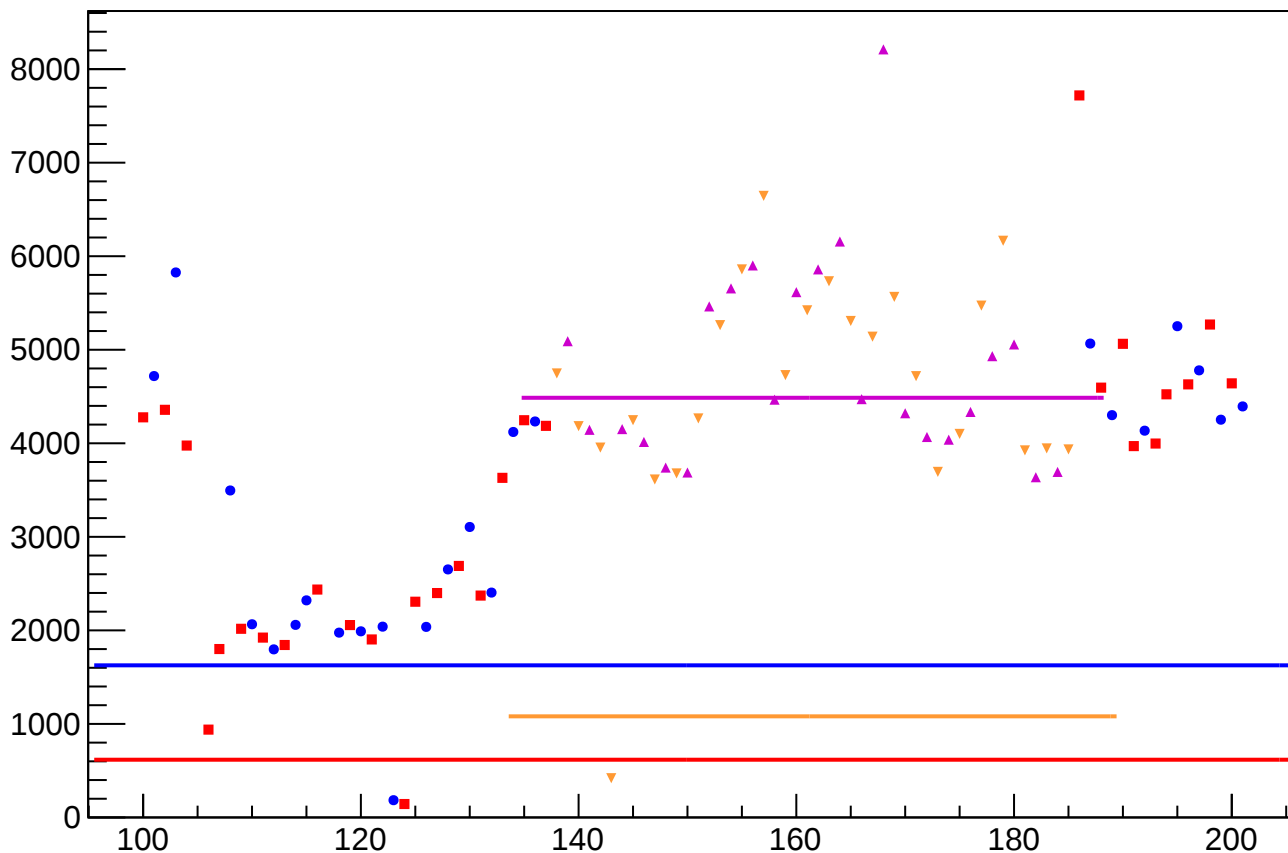
Right: 223.432+/-311.074 χ^2/NDF : 62.0/51

In: 420.247+/-570.901 χ^2/NDF :37.3/46

Out: 243.354+/-274.642 χ^2/NDF :72.3/52

All: 276.598+/-247.493 χ^2/NDF : 109.6/99

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1626.282 $\pm$ 0.473

χ^2/NDF : 10796420.6/23

Left: 1555.179 $\pm$ 0.289

χ^2/NDF : 42294704.7/47

Left Out: 1081.004 $\pm$ 0.311

χ^2/NDF : 24456244.2/24

Right: 835.381 $\pm$ 0.220

χ^2/NDF : 33568552.0/51

Right Out: 617.261 $\pm$ 0.248

χ^2/NDF : 19206650.5/27

In: 2404.016 $\pm$ 0.404

χ^2/NDF : 21916873.2/46

Out: 797.665 $\pm$ 0.194

χ^2/NDF : 45018230.5/52

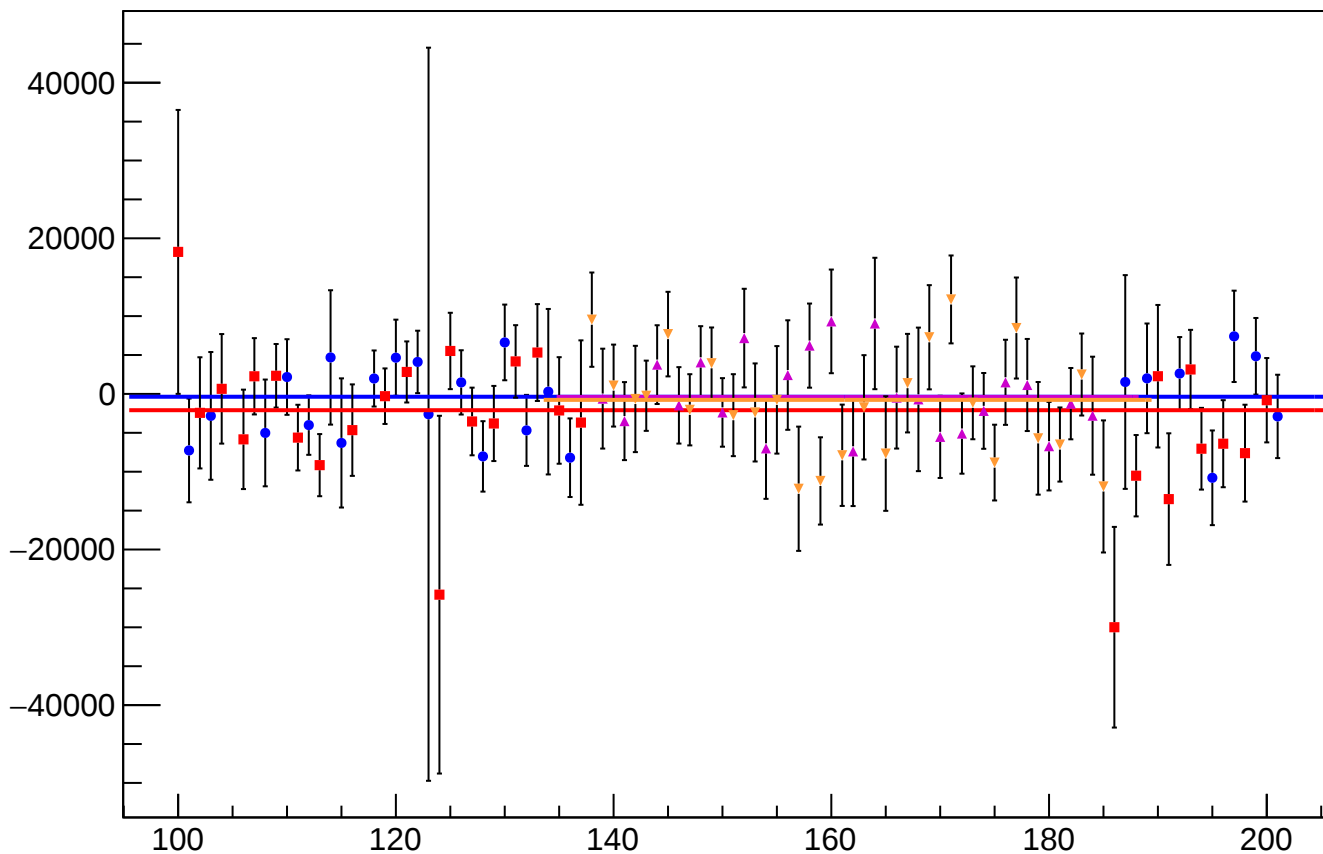
Left In: 4486.570 $\pm$ 0.774

χ^2/NDF : 1181598.1/22

All: 1099.553 $\pm$ 0.175

χ^2/NDF : 79793325.9/95

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -363.867 ± 1099.311 χ^2/NDF : 21.4/23

Left Out: -766.008 ± 1147.372 χ^2/NDF : 29.9/24

Right Out: -2094.332 ± 1033.453 χ^2/NDF : 29.2/27

Left In: -388.944 ± 1186.300 χ^2/NDF : 14.2/22

Left: -583.764 ± 824.733 χ^2/NDF : 44.2/47

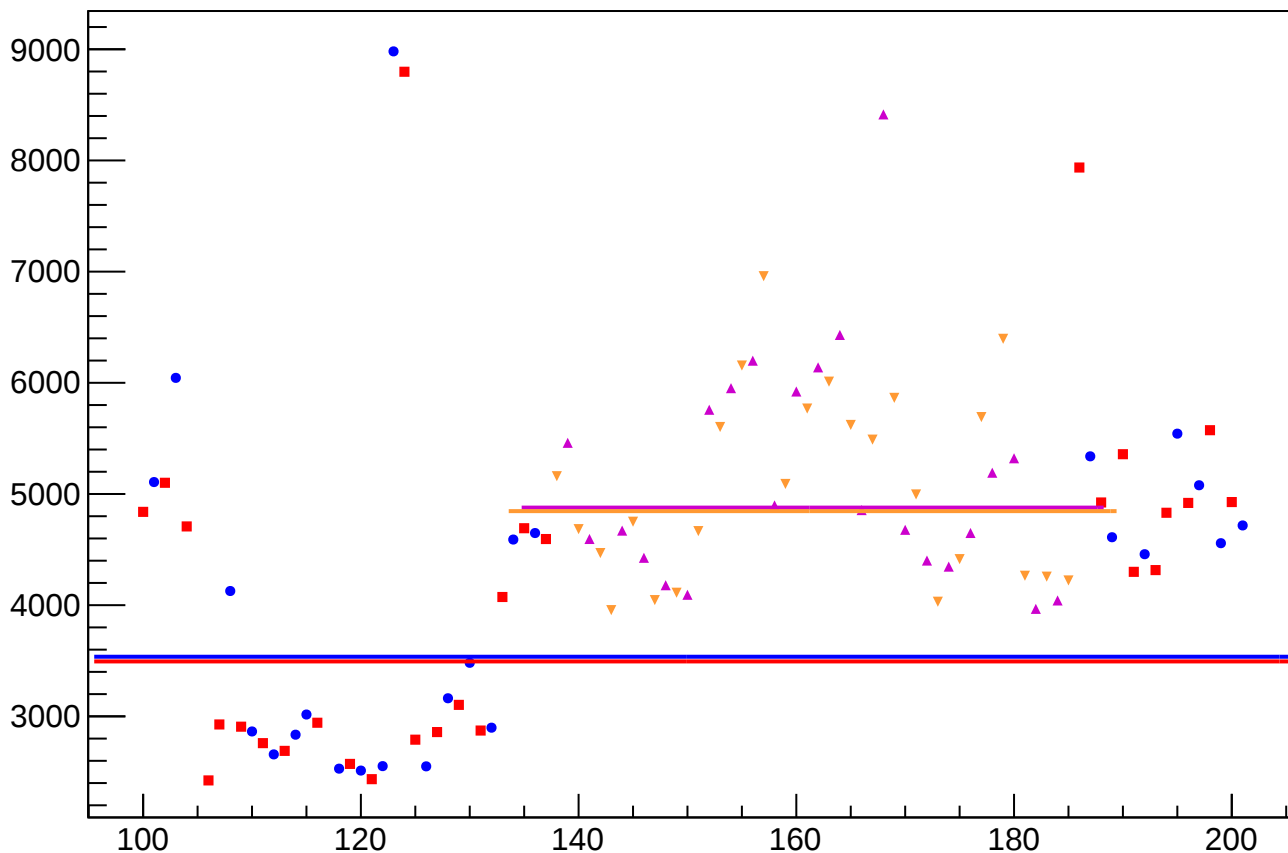
Right: -1282.484 ± 752.968 χ^2/NDF : 51.9/51

In: -375.452 ± 806.331 χ^2/NDF : 35.5/46

Out: -1499.368 ± 767.887 χ^2/NDF : 59.9/52

All: -964.841 ± 556.072 χ^2/NDF : 96.5/99

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3536.184+/-0.777 χ^2/NDF : 1848974.5/23

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3494.009+/-0.724 χ^2/NDF : 2276493.1/27

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

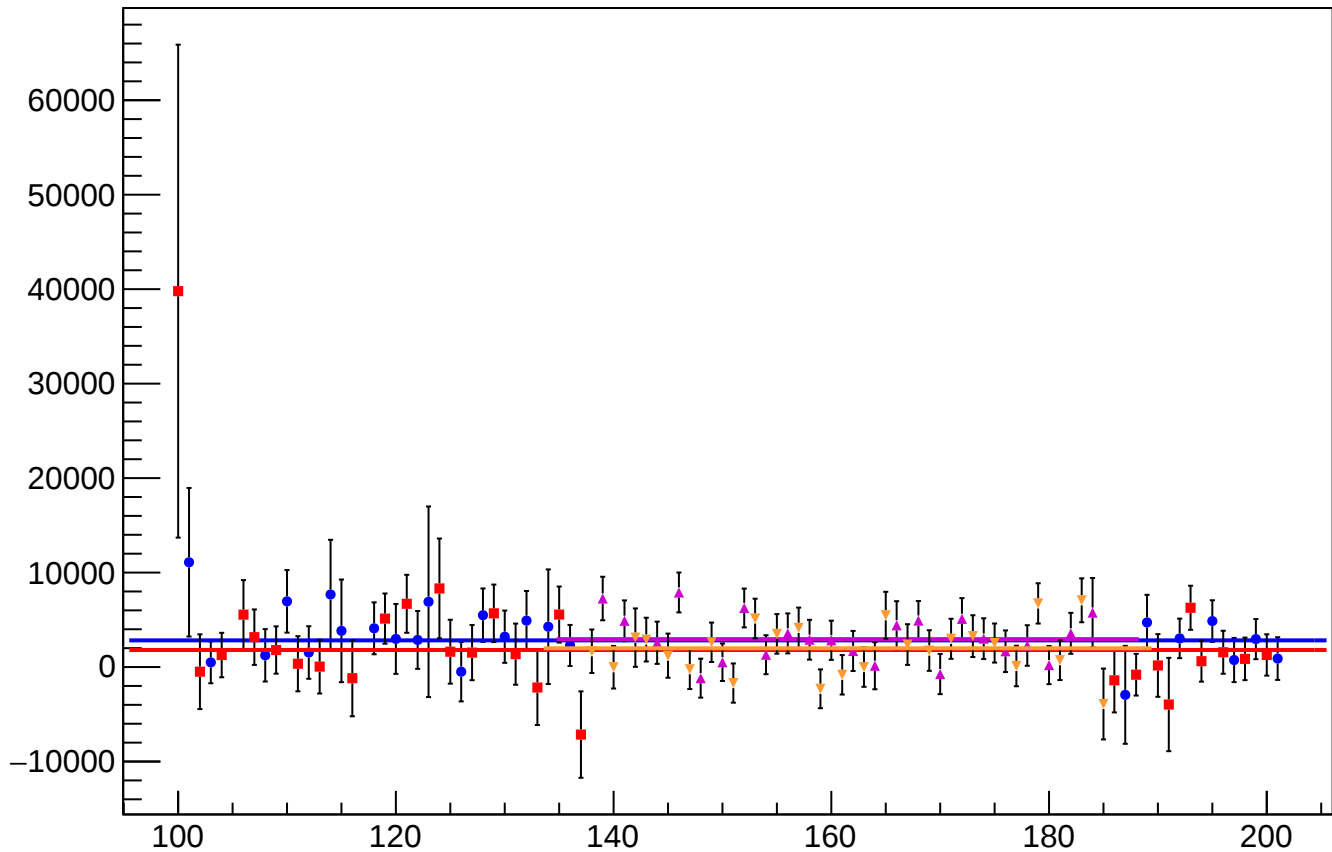
Right: 3513.597+/-0.530 χ^2/NDF : 4127044.1/51

In: 4155.843+/-0.570 χ^2/NDF : 4183101.9/46

Out: 4093.154+/-0.540 χ^2/NDF : 4731287.1/52

All: 4122.805+/-0.392 χ^2/NDF : 8920760.2/99

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2824.851+/-593.041 χ^2/NDF : 12.1/23

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1806.967+/-555.887 χ^2/NDF : 26.8/27

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

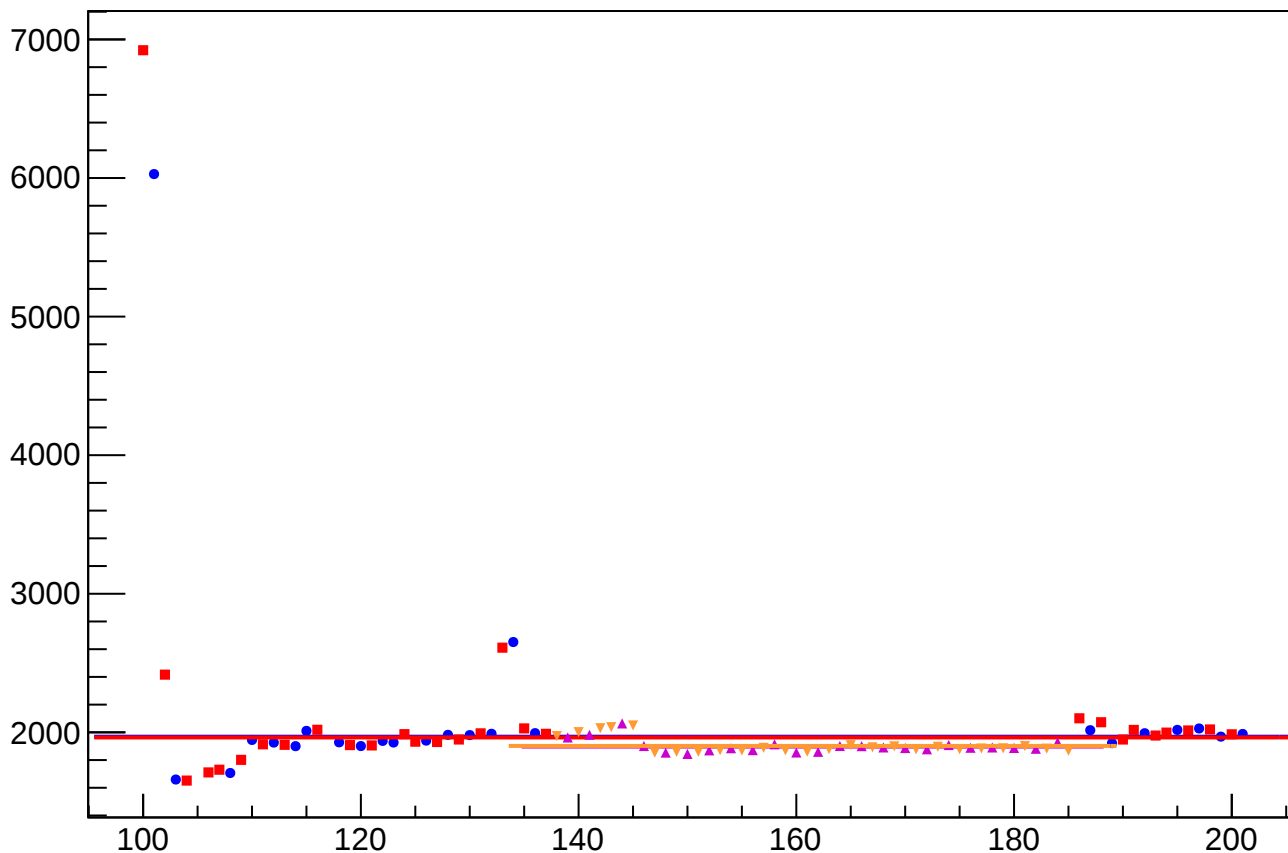
Right: 2283.027+/-405.571 χ^2/NDF : 40.4/51

In: 2907.403+/-360.768 χ^2/NDF : 40.5/46

Out: 1916.100+/-346.535 χ^2/NDF : 59.3/52

All: 2391.812+/-249.917 χ^2/NDF : 103.7/99

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1968.480+/-0.419 χ^2/NDF : 621685.9/23

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1963.125+/-0.393 χ^2/NDF : 234748.0/27

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

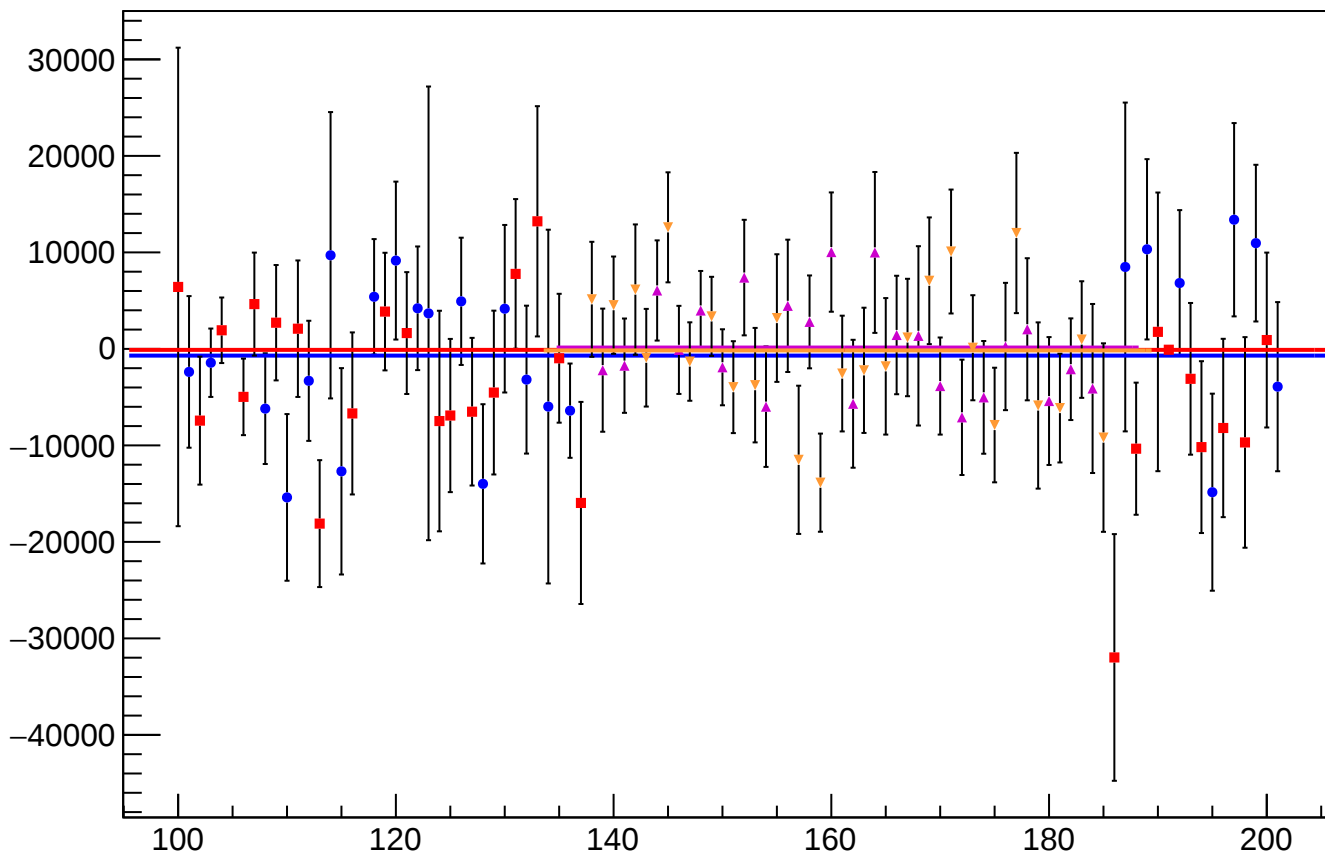
Right: 1965.626+/-0.287 χ^2/NDF : 856520.8/51

In: 1923.740+/-0.255 χ^2/NDF : 660936.1/46

Out: 1925.721+/-0.245 χ^2/NDF : 280059.4/52

All: 1924.771+/-0.177 χ^2/NDF : 941026.9/99

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -695.851 ± 1506.032 $\chi^2/\text{NDF}: 22.9/23$

Left Out: -157.539 ± 1165.844 $\chi^2/\text{NDF}: 29.5/24$

Right Out: -102.091 ± 109.585 $\chi^2/\text{NDF}: 31.1/27$

Left In: 139.000 ± 1190.889 $\chi^2/\text{NDF}: 14.7/22$

Left: -12.420 ± 833.090 $\chi^2/\text{NDF}: 44.2/47$

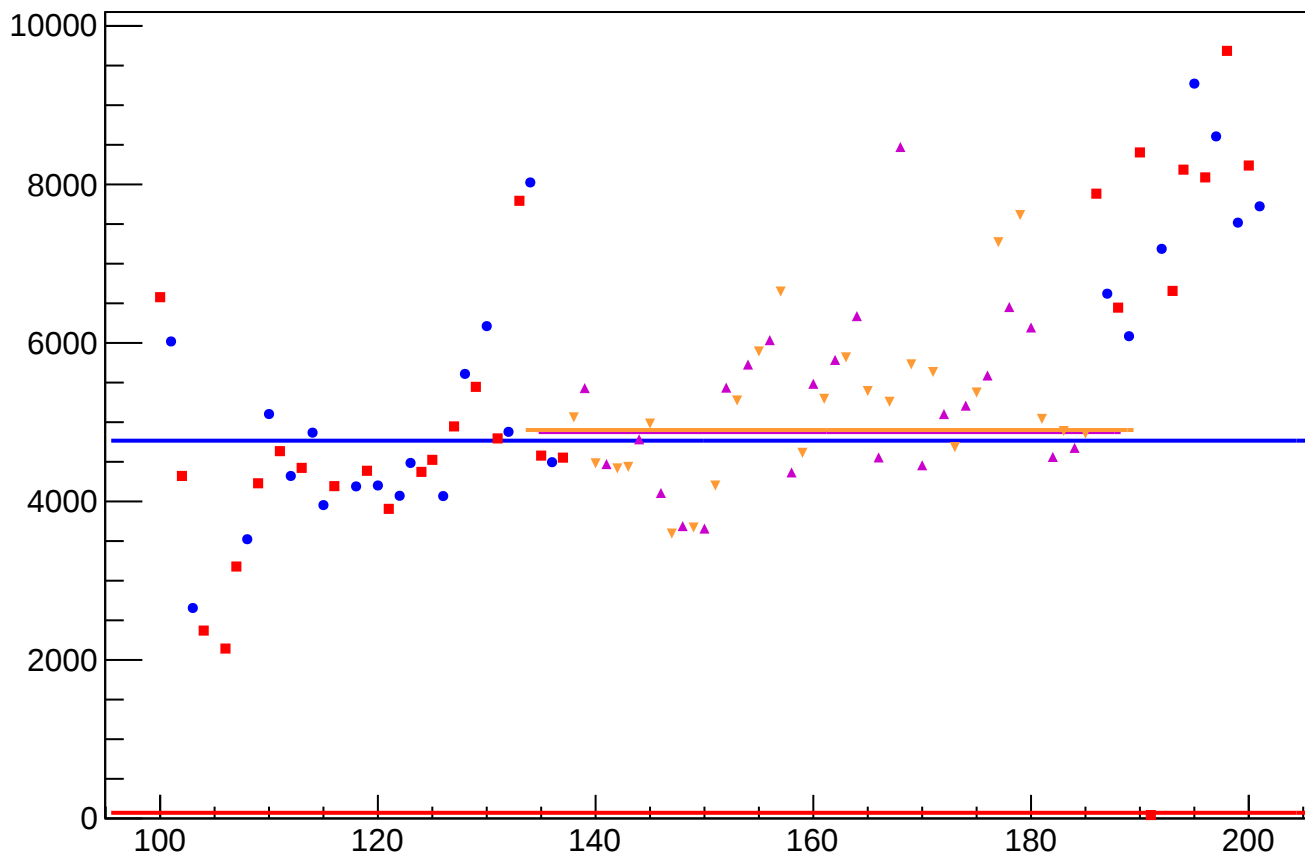
Right: -105.218 ± 109.296 $\chi^2/\text{NDF}: 54.1/51$

In: -182.185 ± 934.130 $\chi^2/\text{NDF}: 37.8/46$

Out: -102.576 ± 109.104 $\chi^2/\text{NDF}: 60.6/52$

All: -103.648 ± 108.367 $\chi^2/\text{NDF}: 98.4/99$

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4766.777 $\pm$ 1.065 χ^2 /NDF: 2509896.8/23

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF:1136916.0/24

Right Out: 71.508 $\pm$ 0.077 χ^2 /NDF: 24413890.0/27

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

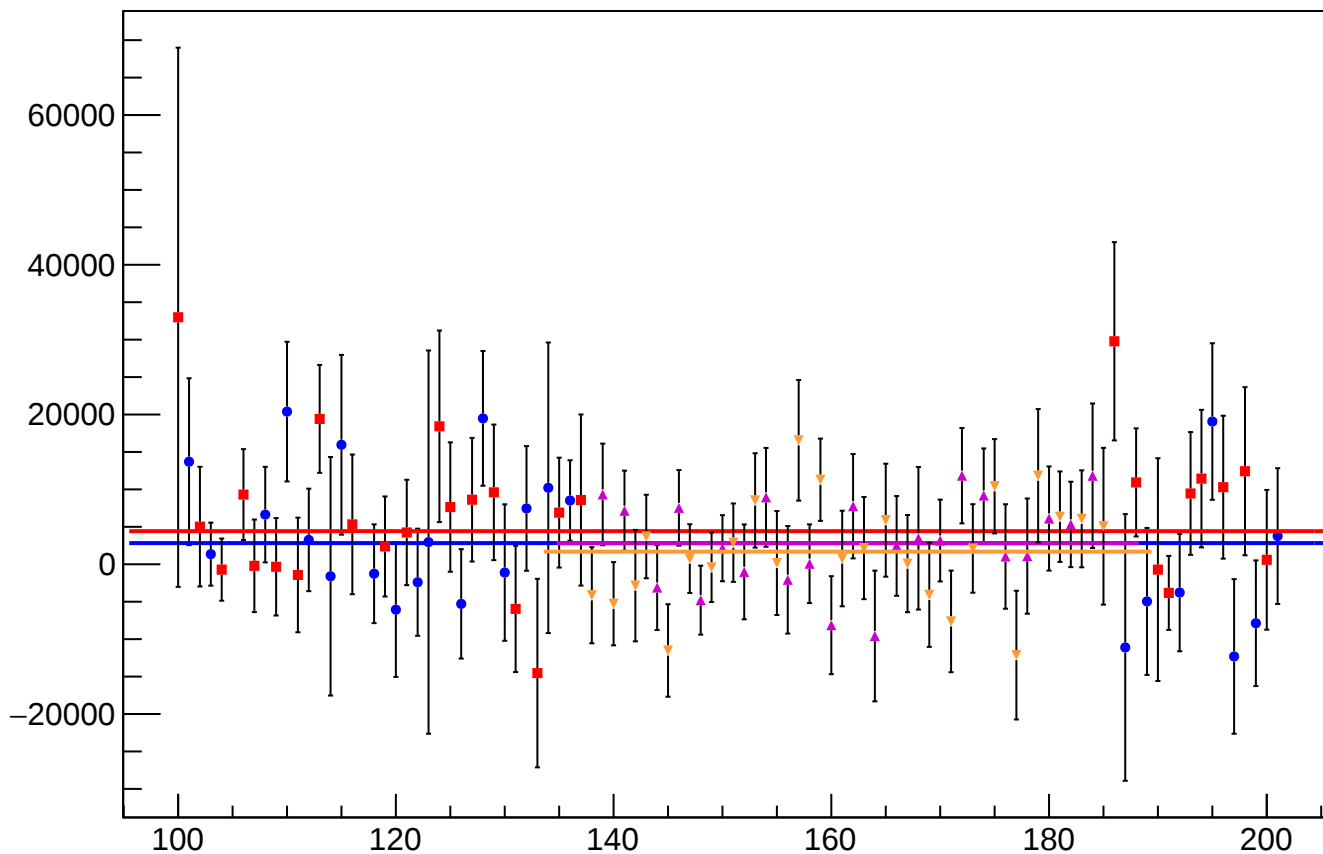
Right: 96.237 $\pm$ 0.077 χ^2 /NDF: 46260801.1/51

In: 4833.433 $\pm$ 0.661 χ^2 /NDF:3745462.4/46

Out: 113.807 $\pm$ 0.077 χ^2 /NDF:59575608.8/52

All: 177.324 $\pm$ 0.077 χ^2 /NDF: 113688082.7/9

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2827.474+/-1669.574 χ^2/NDF : 22.7/23

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 4421.751+/-1470.882 χ^2/NDF : 24.3/27

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

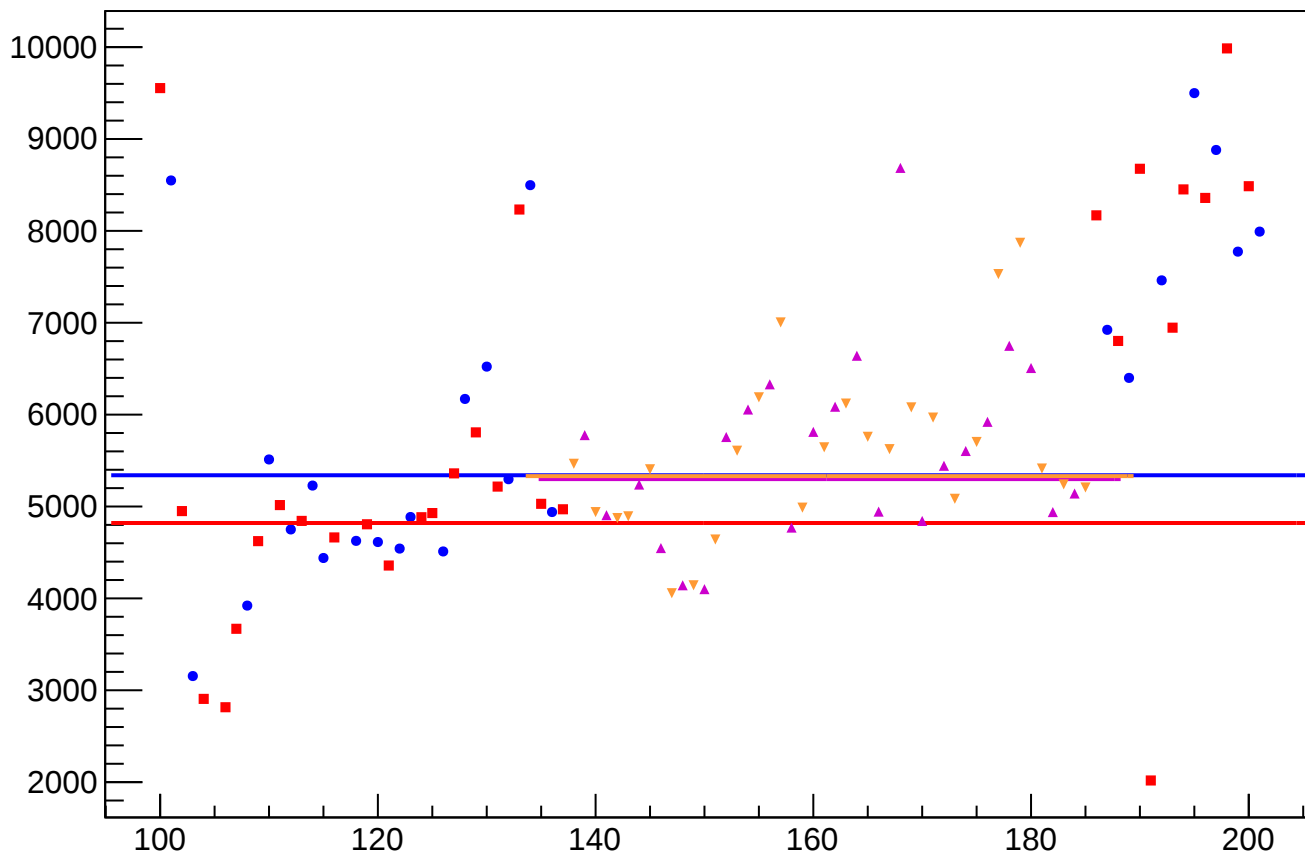
Right: 3725.078+/-1103.668 χ^2/NDF : 47.5/51

In: 2825.346+/-1020.008 χ^2/NDF : 40.7/46

Out: 2845.925+/-957.629 χ^2/NDF : 51.7/52

All: 2836.284+/-698.157 χ^2/NDF : 92.4/99

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5340.146+/-1.181 χ^2/NDF : 2109698.6/23

Left Out: 5330.725+/-0.892 χ^2/NDF : 868061.7/24

Right Out: 4820.487+/-1.036 χ^2/NDF : 3487378.5/27

Left In: 5298.329+/-0.911 χ^2/NDF : 956021.6/22

Left: 5314.867+/-0.637 χ^2/NDF : 1824728.8/47

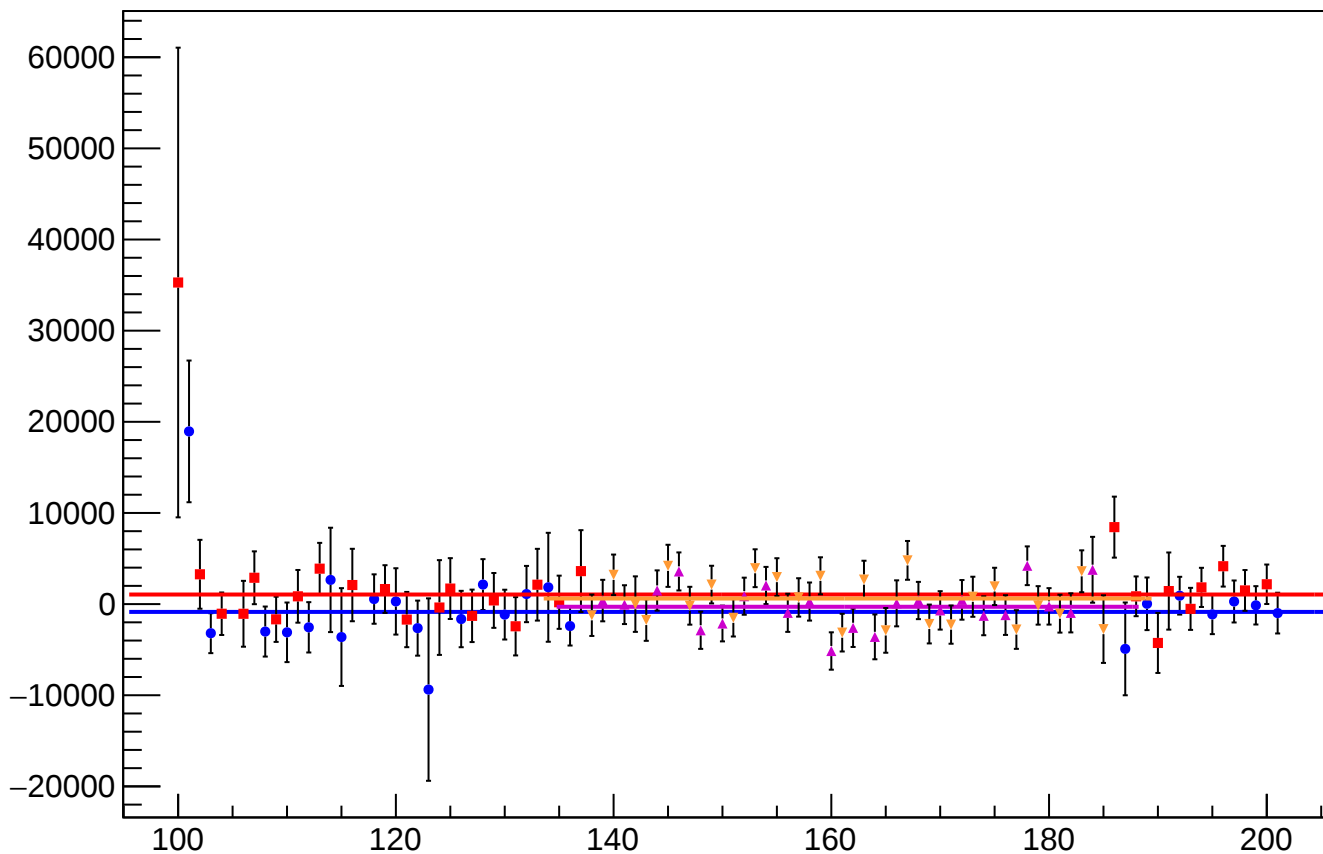
Right: 5046.492+/-0.779 χ^2/NDF : 5706567.1/51

In: 5313.937+/-0.721 χ^2/NDF : 3066506.6/46

Out: 5113.396+/-0.676 χ^2/NDF : 4494769.7/52

All: 5207.168+/-0.493 χ^2/NDF : 7602436.1/99

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -857.000 ± 585.515 χ^2/NDF : 15.4/23

Left Out: 612.314 ± 438.264 χ^2/NDF : 32.7/24

Right Out: 1051.364 ± 547.989 χ^2/NDF : 19.7/27

Left In: -293.009 ± 449.575 χ^2/NDF : 23.6/22

Left: 171.185 ± 313.822 χ^2/NDF : 58.4/47

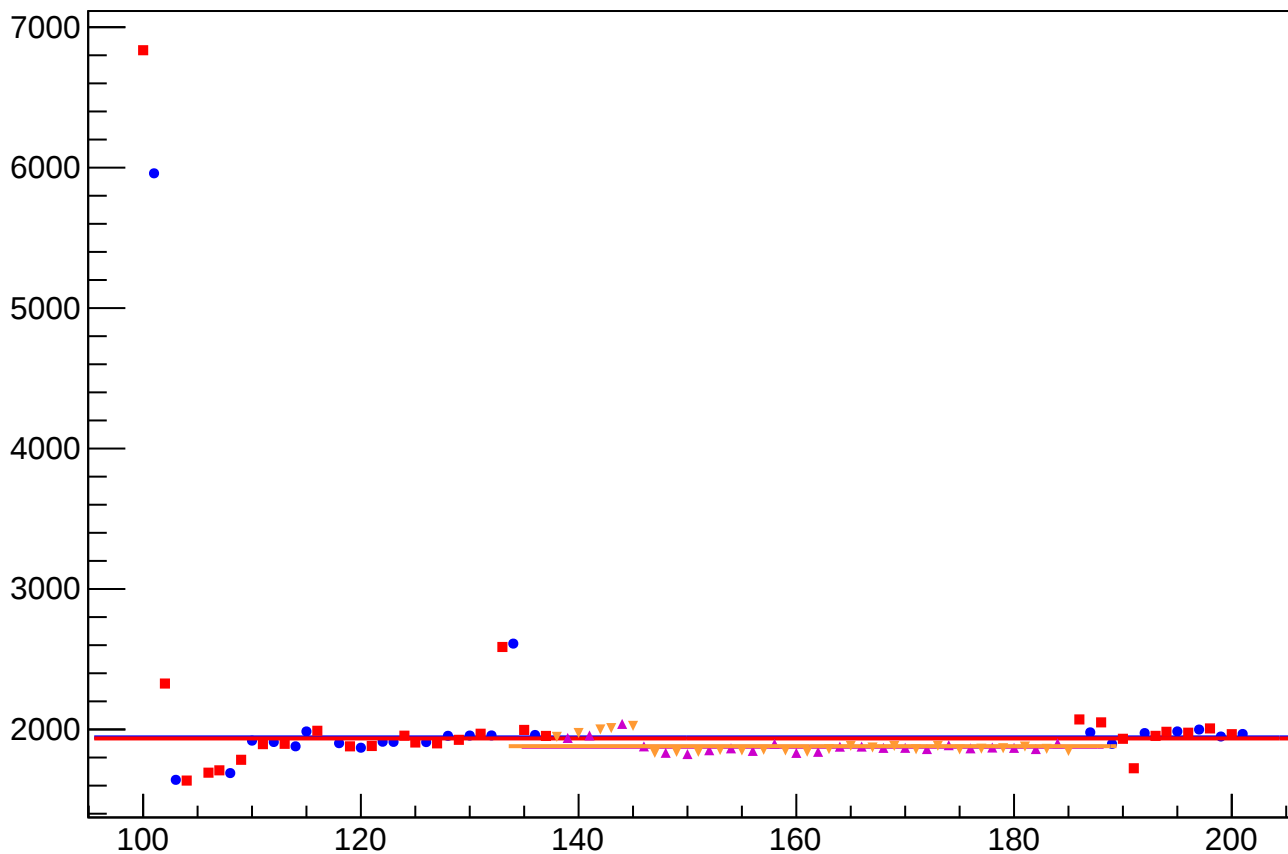
Right: 160.292 ± 400.096 χ^2/NDF : 40.7/51

In: -502.190 ± 356.586 χ^2/NDF : 39.6/46

Out: 783.590 ± 342.265 χ^2/NDF : 52.7/52

All: 167.036 ± 246.926 χ^2/NDF : 99.1/99

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1943.582 $\pm$ 0.414 χ^2 /NDF: 620105.1/23

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF: 28655.5/24

Right Out: 1935.819 $\pm$ 0.387 χ^2 /NDF: 233773.7/27

Left In: 1876.685 $\pm$ 0.318 χ^2 /NDF: 20499.7/22

Left: 1878.799 $\pm$ 0.222 χ^2 /NDF: 49241.5/47

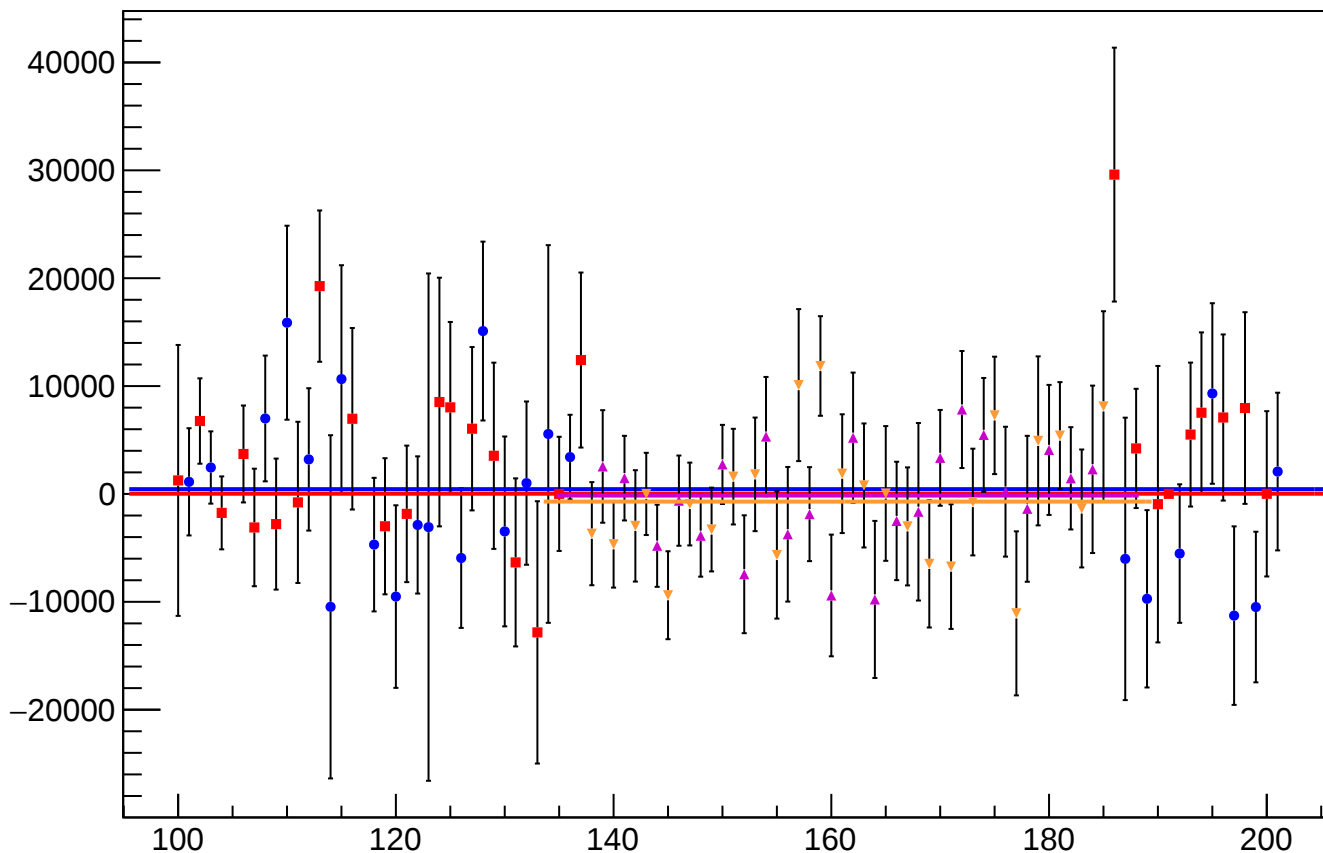
Right: 1939.439 $\pm$ 0.283 χ^2 /NDF: 854066.4/51

In: 1901.497 $\pm$ 0.252 χ^2 /NDF: 657029.5/46

Out: 1902.302 $\pm$ 0.242 χ^2 /NDF: 274740.8/52

All: 1901.916 $\pm$ 0.175 χ^2 /NDF: 931775.6/99

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 444.453+/-1381.500 χ^2/NDF : 21.8/23

Left Out: -707.785+/-1017.719 χ^2/NDF : 27.1/24

Right Out: 22.399+/-85.814 χ^2/NDF : 29.7/27

Left In: -150.495+/-1053.655 χ^2/NDF : 16.9/22

Left: -438.806+/-732.011 χ^2/NDF : 44.2/47

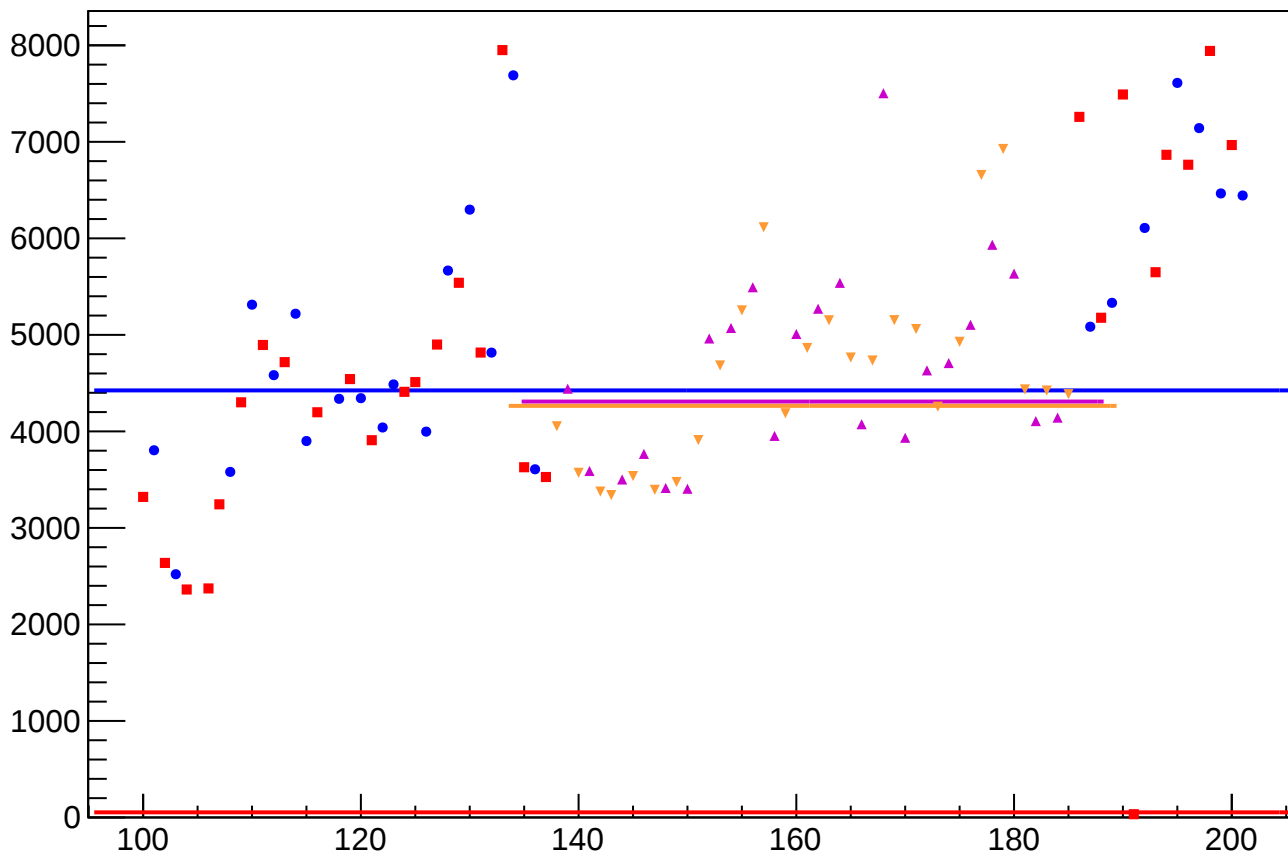
Right: 24.021+/-85.649 χ^2/NDF : 51.5/51

In: 68.307+/-837.794 χ^2/NDF : 38.8/46

Out: 17.244+/-85.510 χ^2/NDF : 57.3/52

All: 17.770+/-85.068 χ^2/NDF : 96.1/99

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4424.580+/-0.977 χ^2/NDF : 2060270.8/23

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 52.908+/-0.061 χ^2/NDF : 24551018.0/27

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

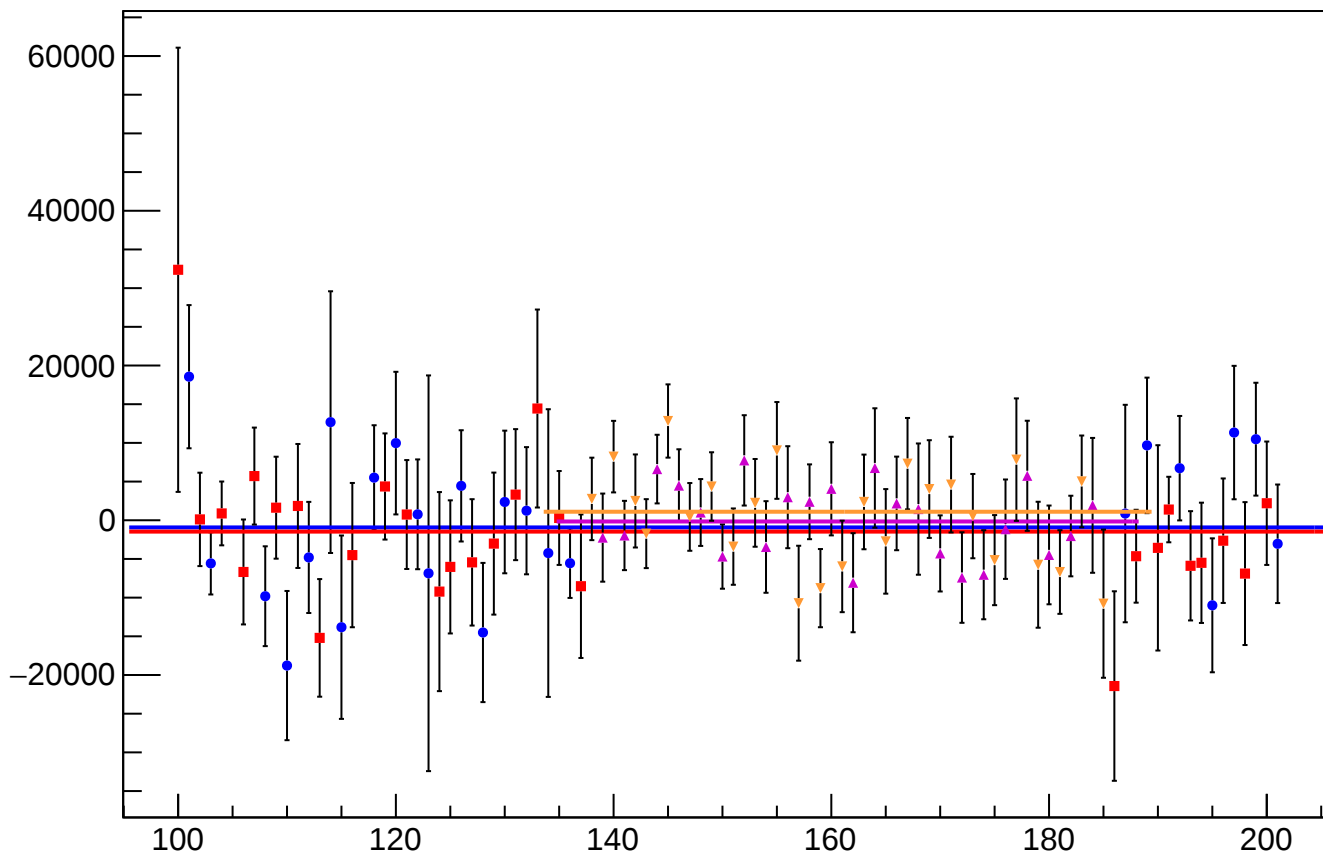
Right: 69.711+/-0.061 χ^2/NDF : 46561643.6/51

In: 4351.528+/-0.592 χ^2/NDF : 3374249.5/46

Out: 82.640+/-0.060 χ^2/NDF : 59913533.3/52

All: 126.653+/-0.060 χ^2/NDF : 114678452.8/9

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -926.621 ± 1567.889 $\chi^2/\text{NDF}: 28.4/23$

Left Out: 1102.204 ± 1126.663 $\chi^2/\text{NDF}: 28.6/24$

Right Out: -1466.710 ± 1381.204 $\chi^2/\text{NDF}: 16.4/27$

Left In: -158.683 ± 1161.507 $\chi^2/\text{NDF}: 15.5/22$

Left: 490.957 ± 808.709 $\chi^2/\text{NDF}: 44.7/47$

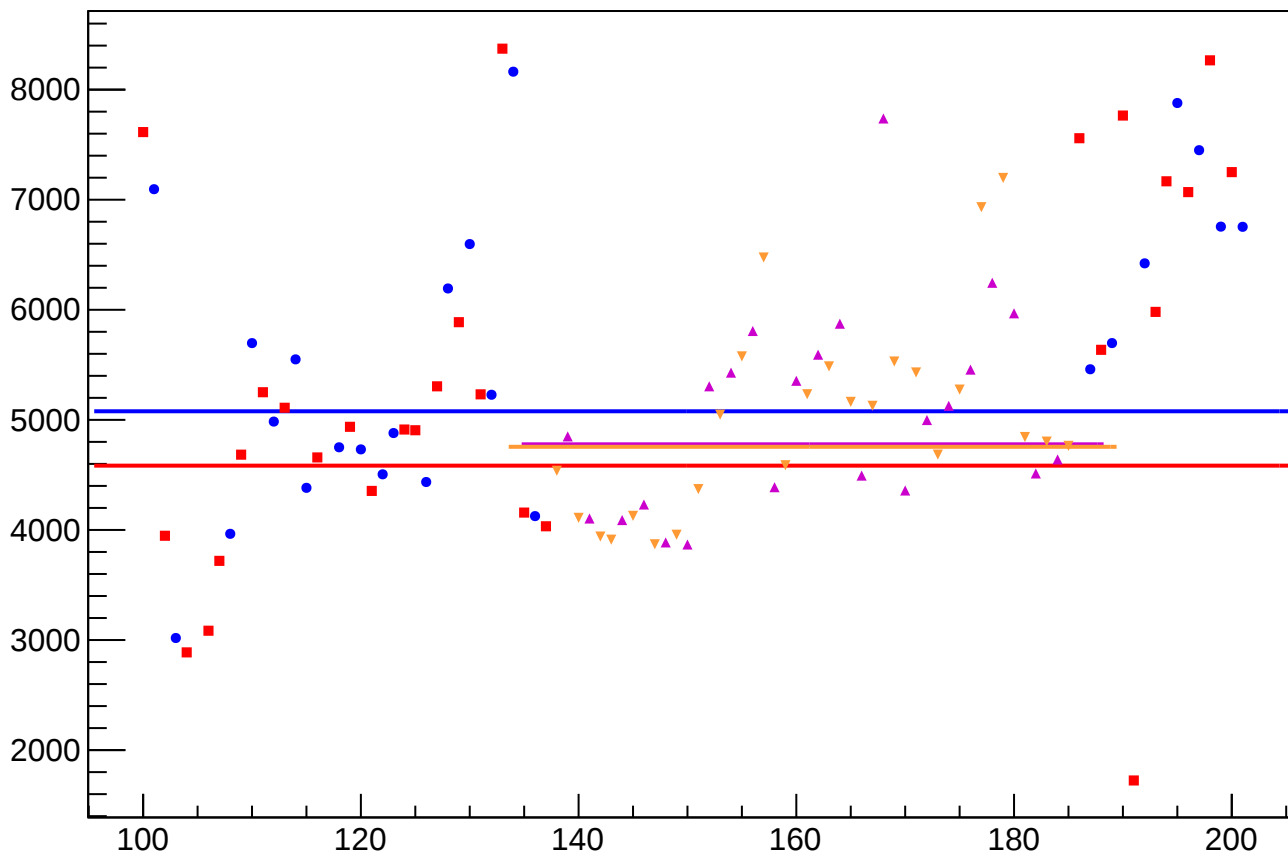
Right: -1230.718 ± 1036.409 $\chi^2/\text{NDF}: 44.9/51$

In: -430.793 ± 933.307 $\chi^2/\text{NDF}: 44.1/46$

Out: 75.825 ± 873.045 $\chi^2/\text{NDF}: 47.0/52$

All: -160.602 ± 637.576 $\chi^2/\text{NDF}: 91.3/99$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5078.104 $\pm$ 1.109 χ^2/NDF : 1617110.2/23

Left Out: 4755.383 $\pm$ 0.797 χ^2/NDF : 953328.0/24

Right Out: 4584.147 $\pm$ 0.973 χ^2/NDF : 3070570.3/27

Left In: 4777.831 $\pm$ 0.821 χ^2/NDF : 950291.2/22

Left: 4766.265 $\pm$ 0.572 χ^2/NDF : 1904004.1/47

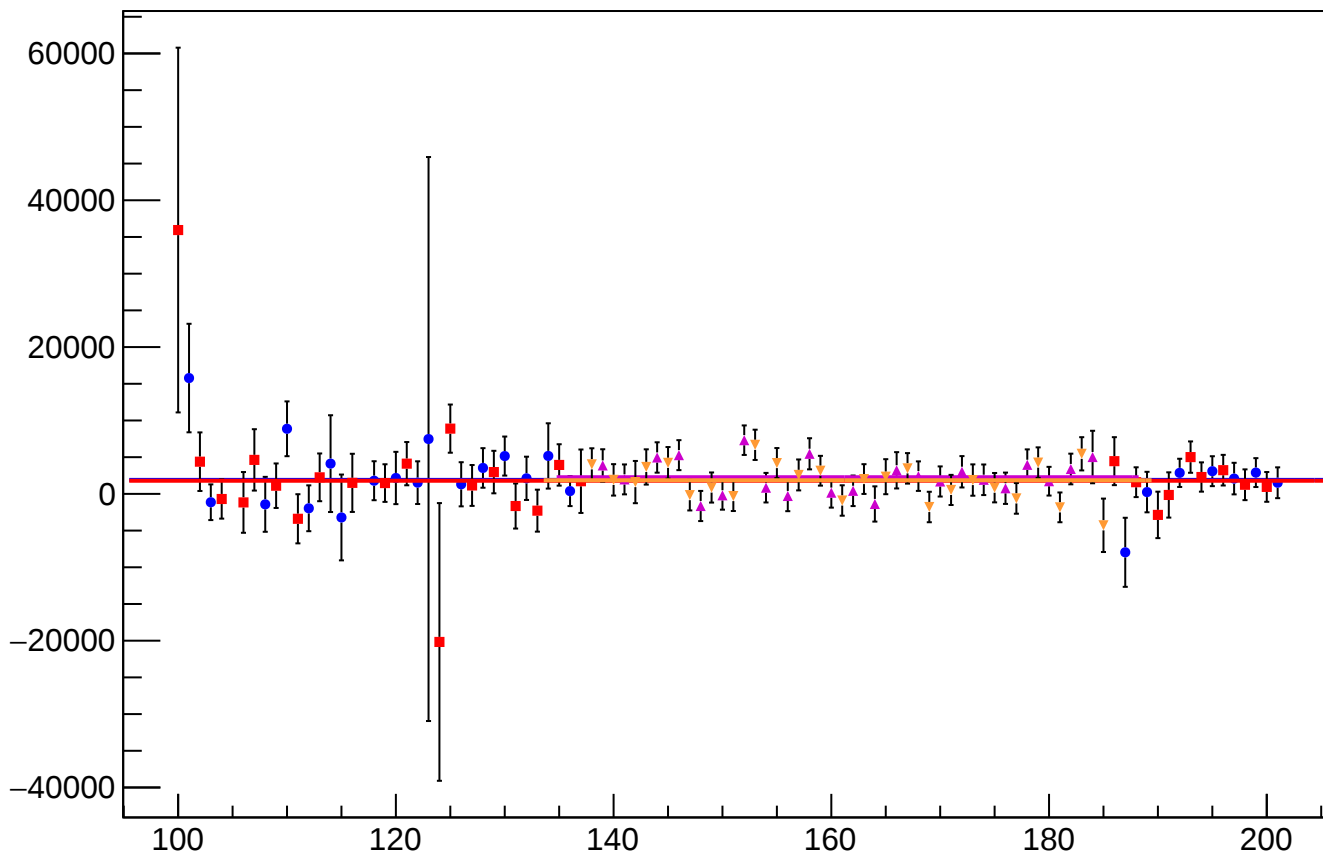
Right: 4799.077 $\pm$ 0.731 χ^2/NDF : 4799813.5/51

In: 4884.229 $\pm$ 0.660 χ^2/NDF : 2614764.1/46

Out: 4686.662 $\pm$ 0.616 χ^2/NDF : 4042439.1/52

All: 4778.715 $\pm$ 0.450 χ^2/NDF : 6705066.9/99

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1905.497 $\pm$ 576.490 χ^2 /NDF: 20.5/23

Left Out: 1856.570 $\pm$ 430.977 χ^2 /NDF:30.0/24

Right Out: 1789.226 $\pm$ 541.722 χ^2 /NDF: 23.7/27

Left In: 2268.464 $\pm$ 441.710 χ^2 /NDF:26.9/22

Left: 2057.452 $\pm$ 308.471 χ^2 /NDF: 57.3/47

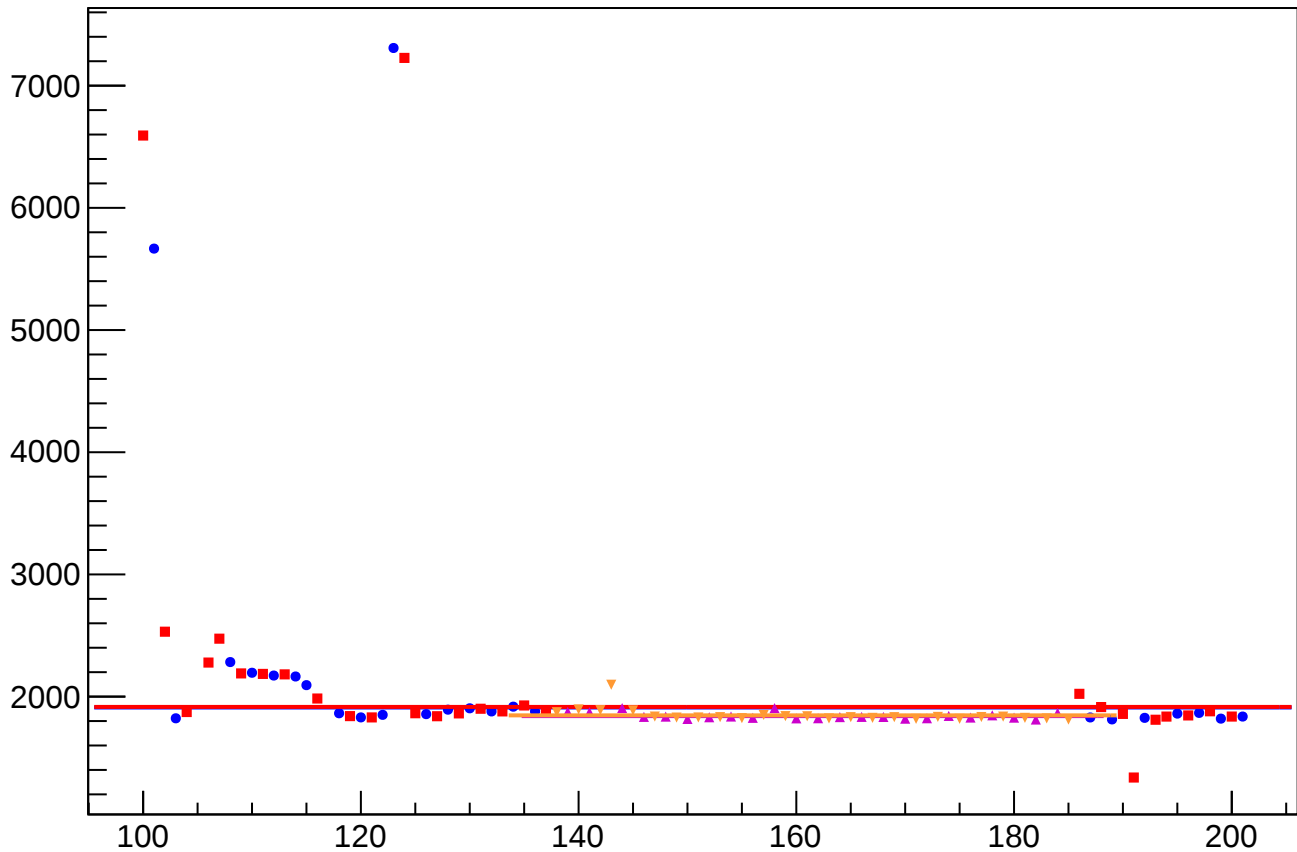
Right: 1843.750 $\pm$ 394.775 χ^2 /NDF: 44.1/51

In: 2134.199 $\pm$ 350.622 χ^2 /NDF:47.6/46

Out: 1830.467 $\pm$ 337.264 χ^2 /NDF:53.7/52

All: 1976.437 $\pm$ 243.067 χ^2 /NDF: 101.6/99

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1911.090 $\pm$ 0.408 χ^2 /NDF: 628491.6/23

Left Out: 1846.602 $\pm$ 0.305 χ^2 /NDF: 27302.8/24

Right Out: 1915.716 $\pm$ 0.383 χ^2 /NDF: 464626.7/27

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

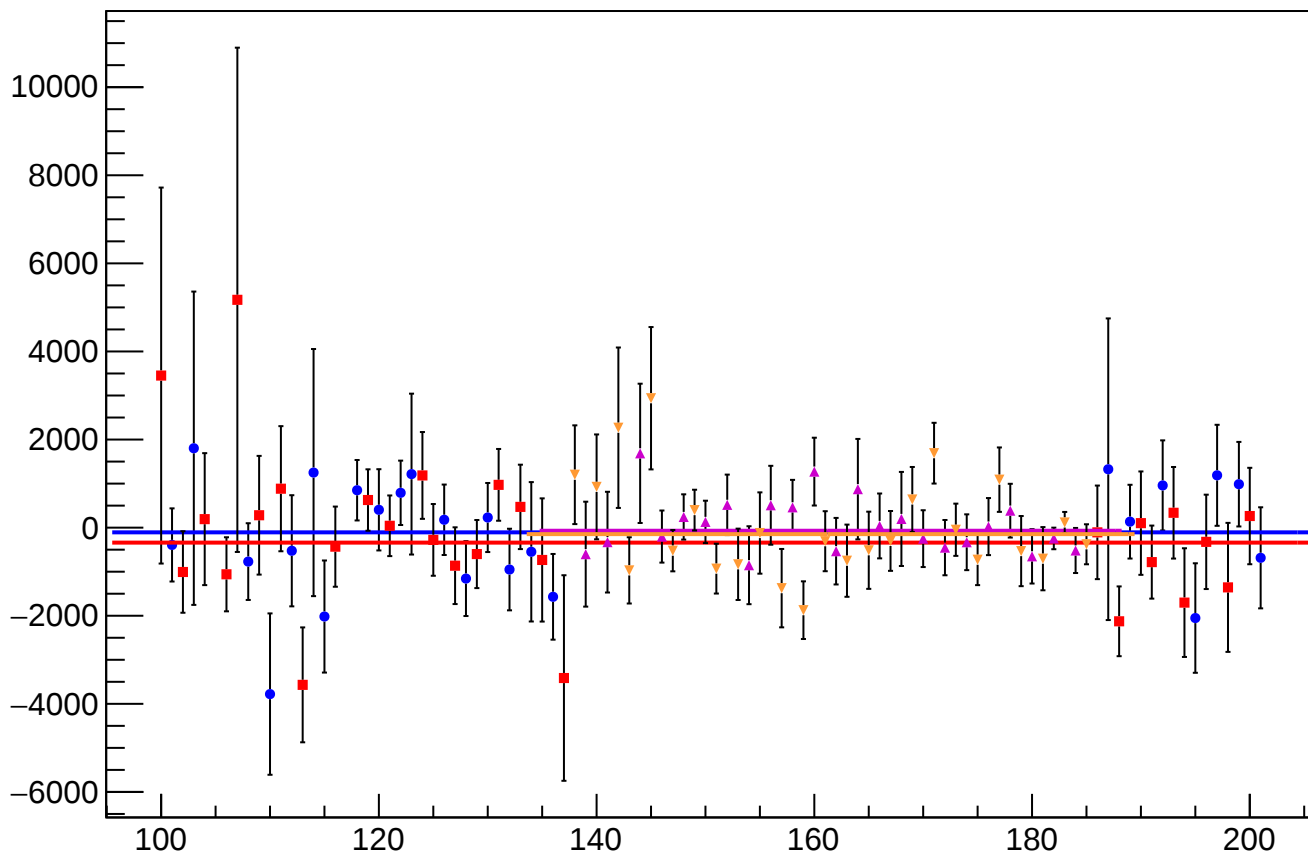
Right: 1913.546 $\pm$ 0.279 χ^2 /NDF: 1093186.7/51

In: 1866.638 $\pm$ 0.248 χ^2 /NDF: 654104.0/46

Out: 1873.391 $\pm$ 0.238 χ^2 /NDF: 511865.5/52

All: 1870.145 $\pm$ 0.172 χ^2 /NDF: 1166354.9/99

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -106.736 ± 208.933 $\chi^2/\text{NDF}: 23.5/23$

Left Out: -146.999 ± 121.984 $\chi^2/\text{NDF}: 37.7/24$

Right Out: -339.856 ± 191.185 $\chi^2/\text{NDF}: 28.4/27$

Left In: -70.340 ± 126.373 $\chi^2/\text{NDF}: 12.3/22$

Left: -110.024 ± 87.766 $\chi^2/\text{NDF}: 50.1/47$

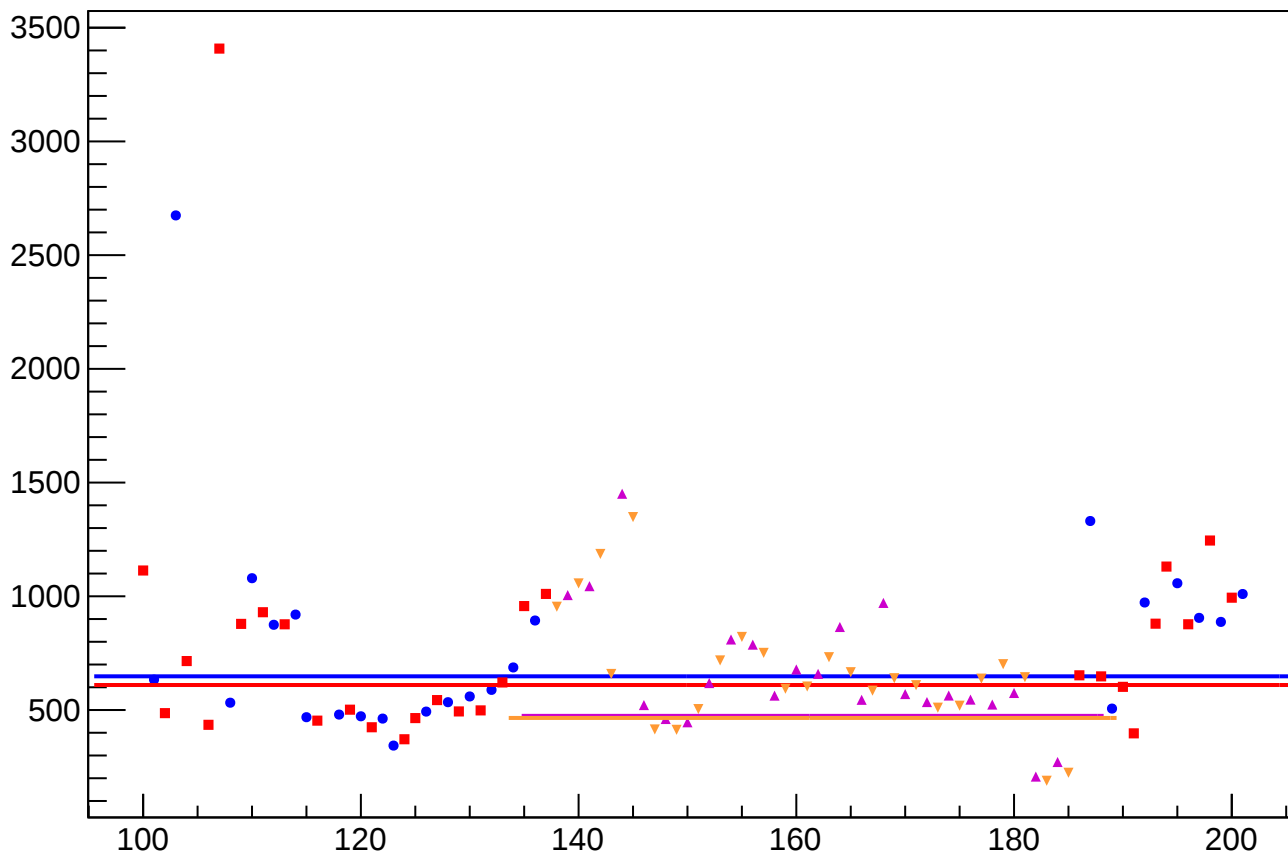
Right: -233.616 ± 141.046 $\chi^2/\text{NDF}: 52.6/51$

In: -80.089 ± 108.132 $\chi^2/\text{NDF}: 35.8/46$

Out: -202.795 ± 102.835 $\chi^2/\text{NDF}: 66.8/52$

All: -144.521 ± 74.518 $\chi^2/\text{NDF}: 103.3/99$

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 648.138 $\pm$ 0.148 χ^2 /NDF: 2549637.0/23

Left Out: 465.080 $\pm$ 0.086 χ^2 /NDF: 7086137.6/24

Right Out: 609.916 $\pm$ 0.135 χ^2 /NDF: 2990824.4/27

Left In: 474.263 $\pm$ 0.089 χ^2 /NDF: 6173100.1/22

Left: 469.509 $\pm$ 0.062 χ^2 /NDF: 13264703.6/47

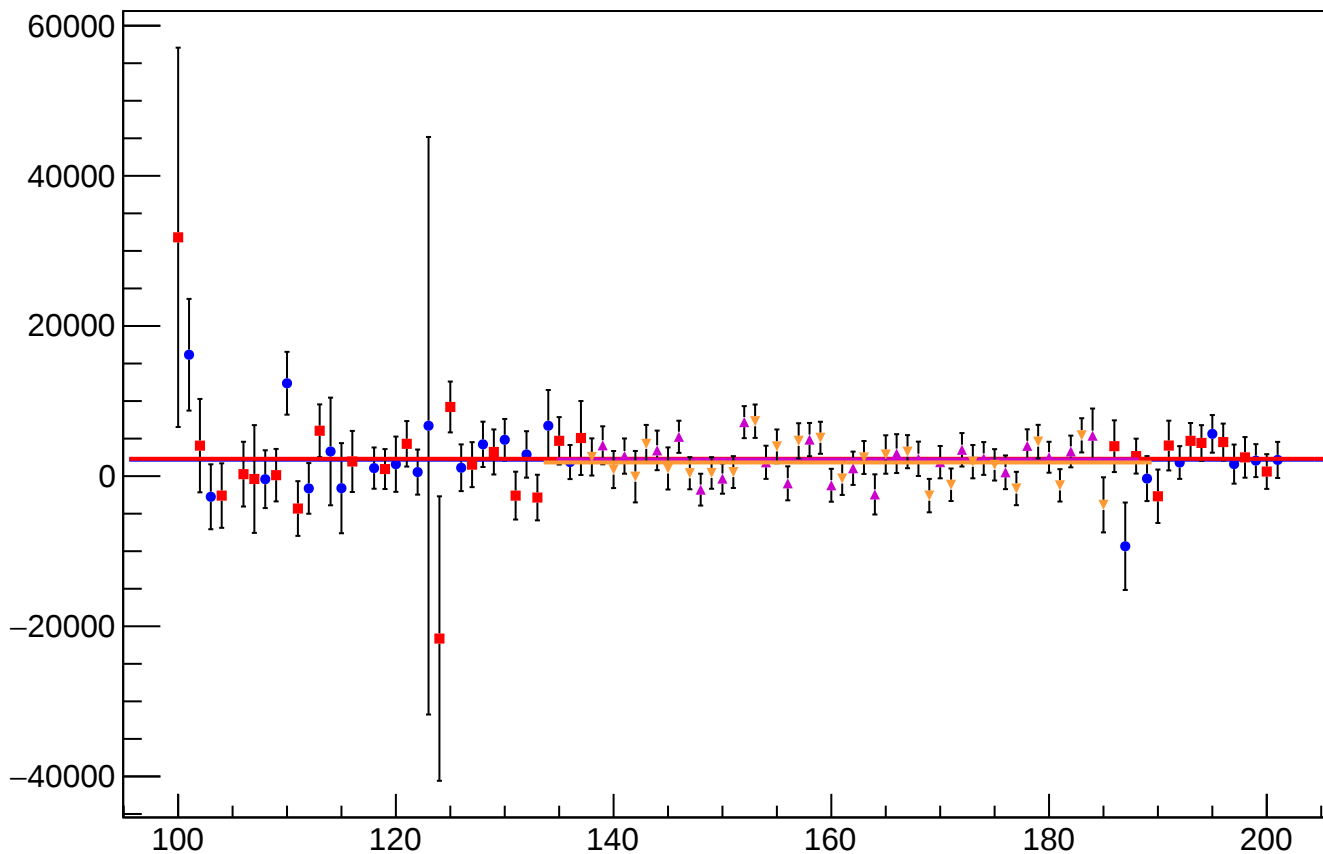
Right: 627.335 $\pm$ 0.100 χ^2 /NDF: 5576889.5/51

In: 520.835 $\pm$ 0.076 χ^2 /NDF: 9736855.5/46

Out: 506.984 $\pm$ 0.073 χ^2 /NDF: 10892699.0/52

All: 513.562 $\pm$ 0.053 χ^2 /NDF: 20646787.1/99

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2191.319+/-649.194 χ^2/NDF : 22.5/23

Left Out: 1824.066+/-462.694 χ^2/NDF : 32.1/24

Right Out: 2310.607+/-614.576 χ^2/NDF : 26.4/27

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

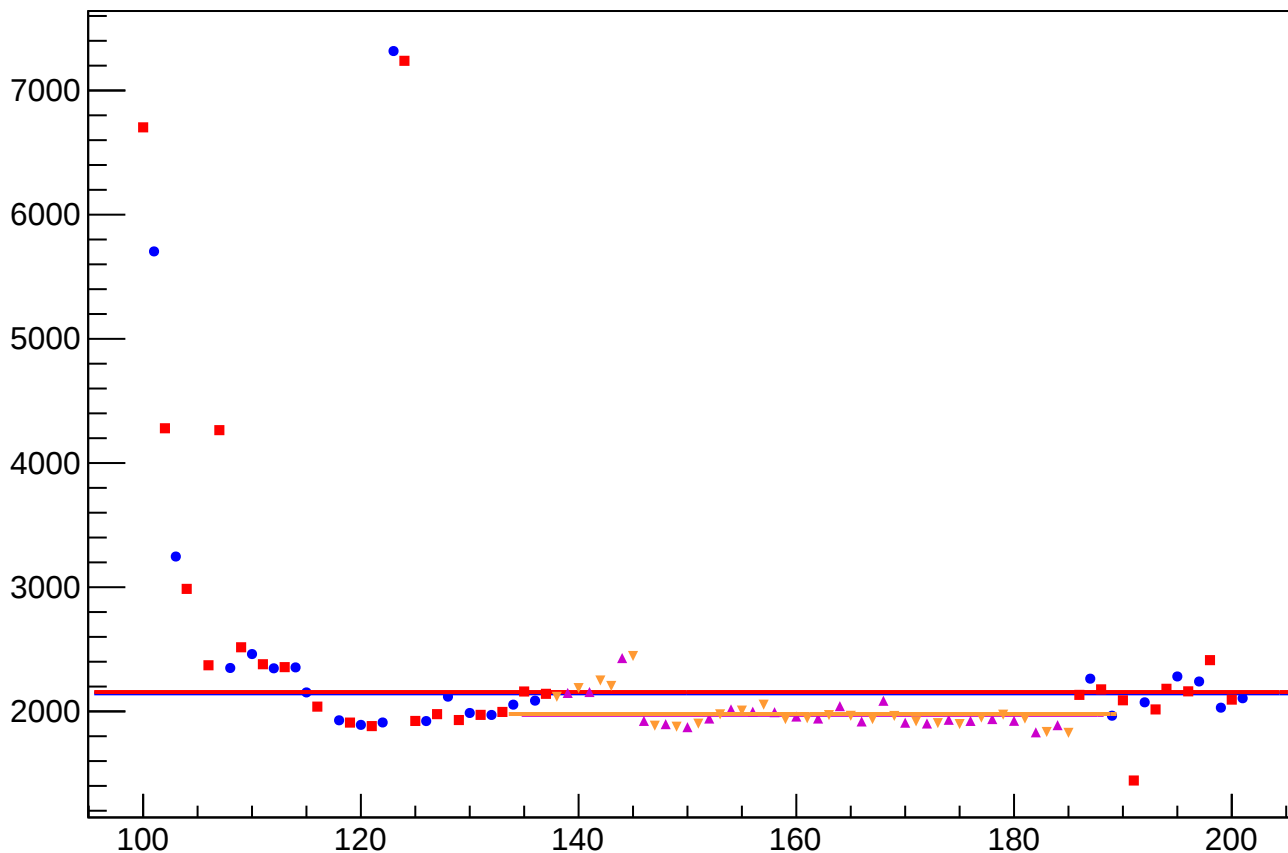
Right: 2254.228+/-446.307 χ^2/NDF : 48.9/51

In: 2202.273+/-382.845 χ^2/NDF : 47.8/46

Out: 2000.077+/-369.646 χ^2/NDF : 58.9/52

All: 2097.629+/-265.923 χ^2/NDF : 106.9/99

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2145.416 $\pm$ 0.459 χ^2 /NDF: 733782.7/23

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF:139299.8/24

Right Out: 2155.958 $\pm$ 0.435 χ^2 /NDF: 925104.6/27

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

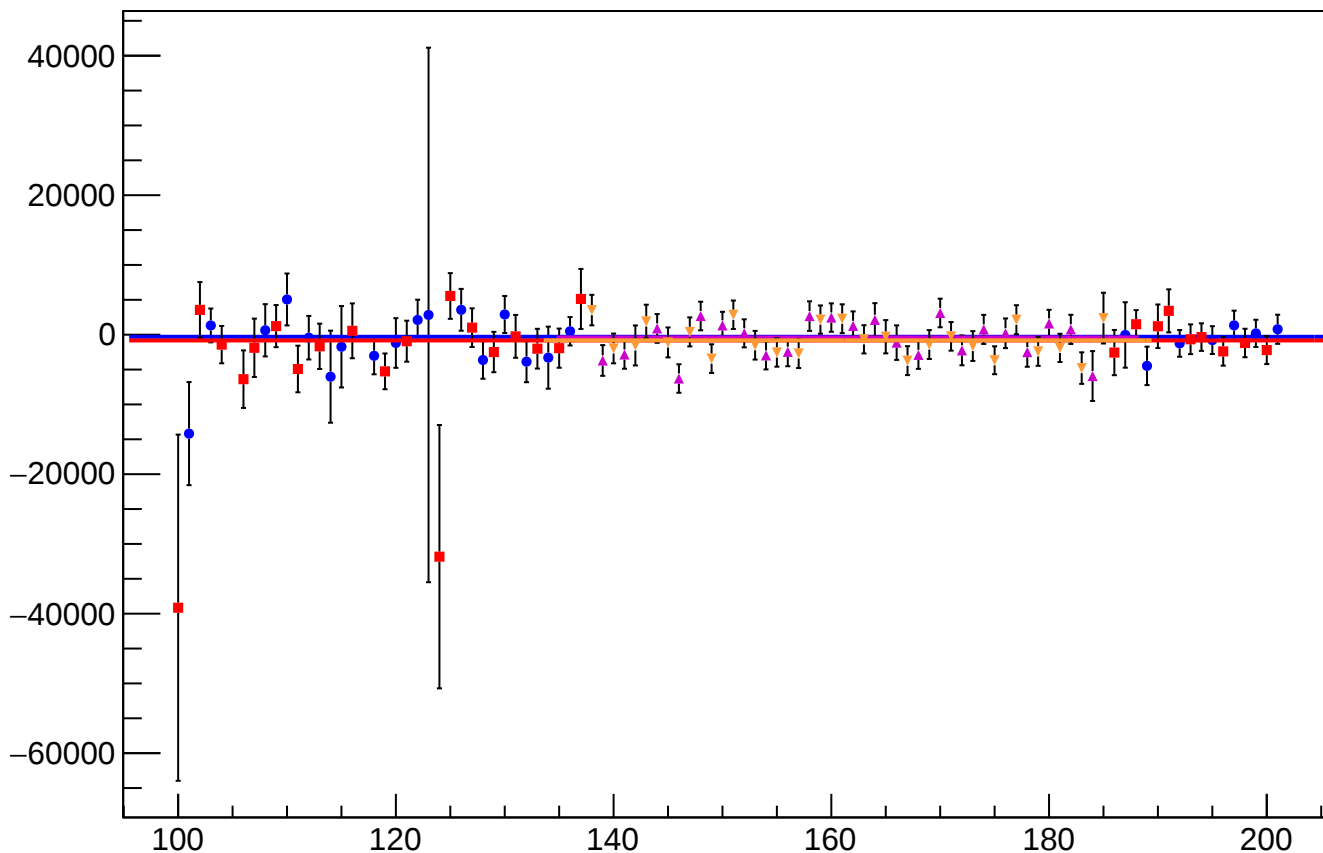
Right: 2150.975 $\pm$ 0.316 χ^2 /NDF: 1659165.4/51

In: 2032.418 $\pm$ 0.271 χ^2 /NDF:943136.6/46

Out: 2043.015 $\pm$ 0.261 χ^2 /NDF:1170236.5/52

All: 2037.902 $\pm$ 0.188 χ^2 /NDF: 2114166.2/99

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -300.642 $\pm$ 573.055 χ^2 /NDF: 19.0/23

Left Out: -808.436 $\pm$ 430.304 χ^2 /NDF: 27.9/24

Right Out: -830.324 $\pm$ 538.253 χ^2 /NDF: 25.3/27

Left In: -398.797 $\pm$ 441.246 χ^2 /NDF: 34.4/22

Left: -608.759 $\pm$ 308.066 χ^2 /NDF: 62.8/47

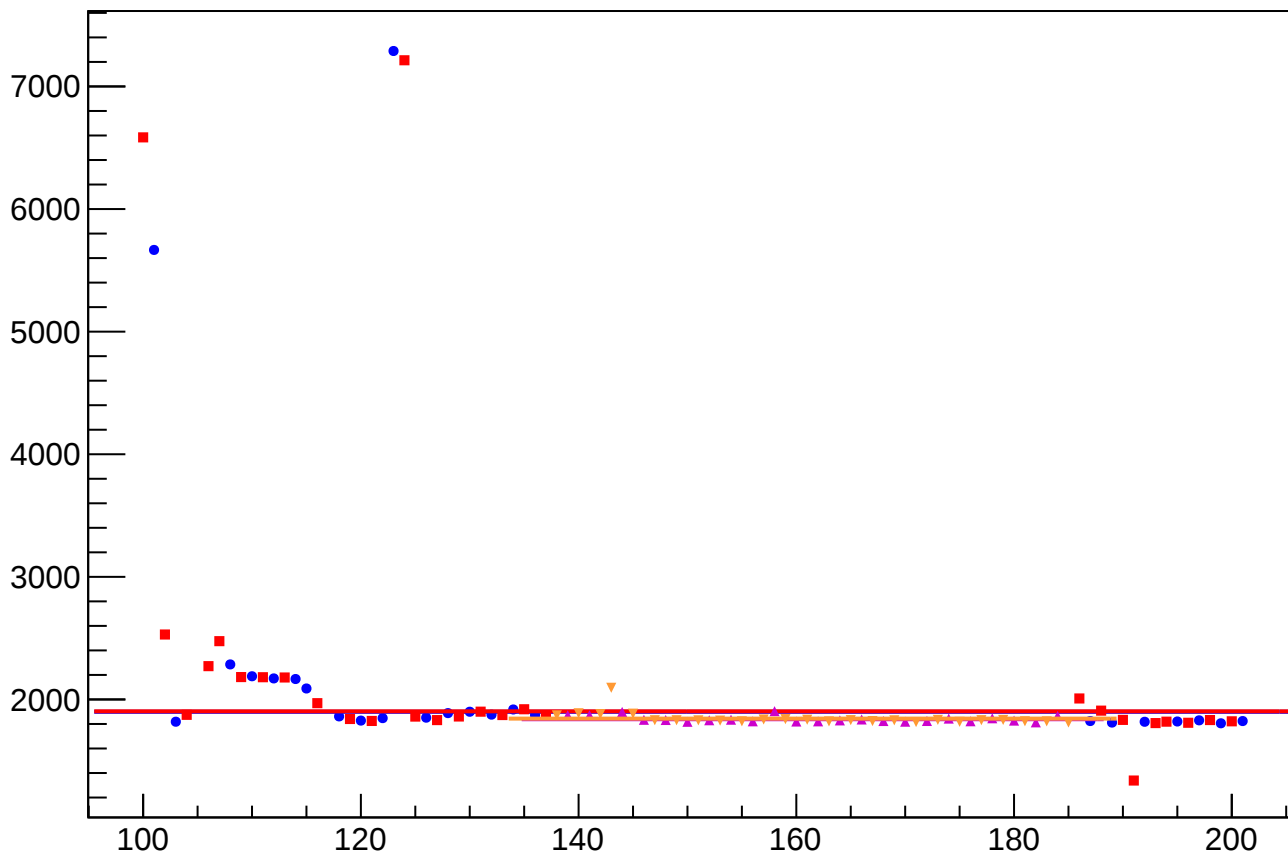
Right: -582.054 $\pm$ 392.329 χ^2 /NDF: 44.7/51

In: -362.263 $\pm$ 349.614 χ^2 /NDF: 53.4/46

Out: -816.970 $\pm$ 336.102 χ^2 /NDF: 53.2/52

All: -598.573 $\pm$ 242.296 χ^2 /NDF: 107.5/99

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1899.328+/-0.405 χ^2/NDF : 636951.9/23

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1903.230+/-0.381 χ^2/NDF : 471132.0/27

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

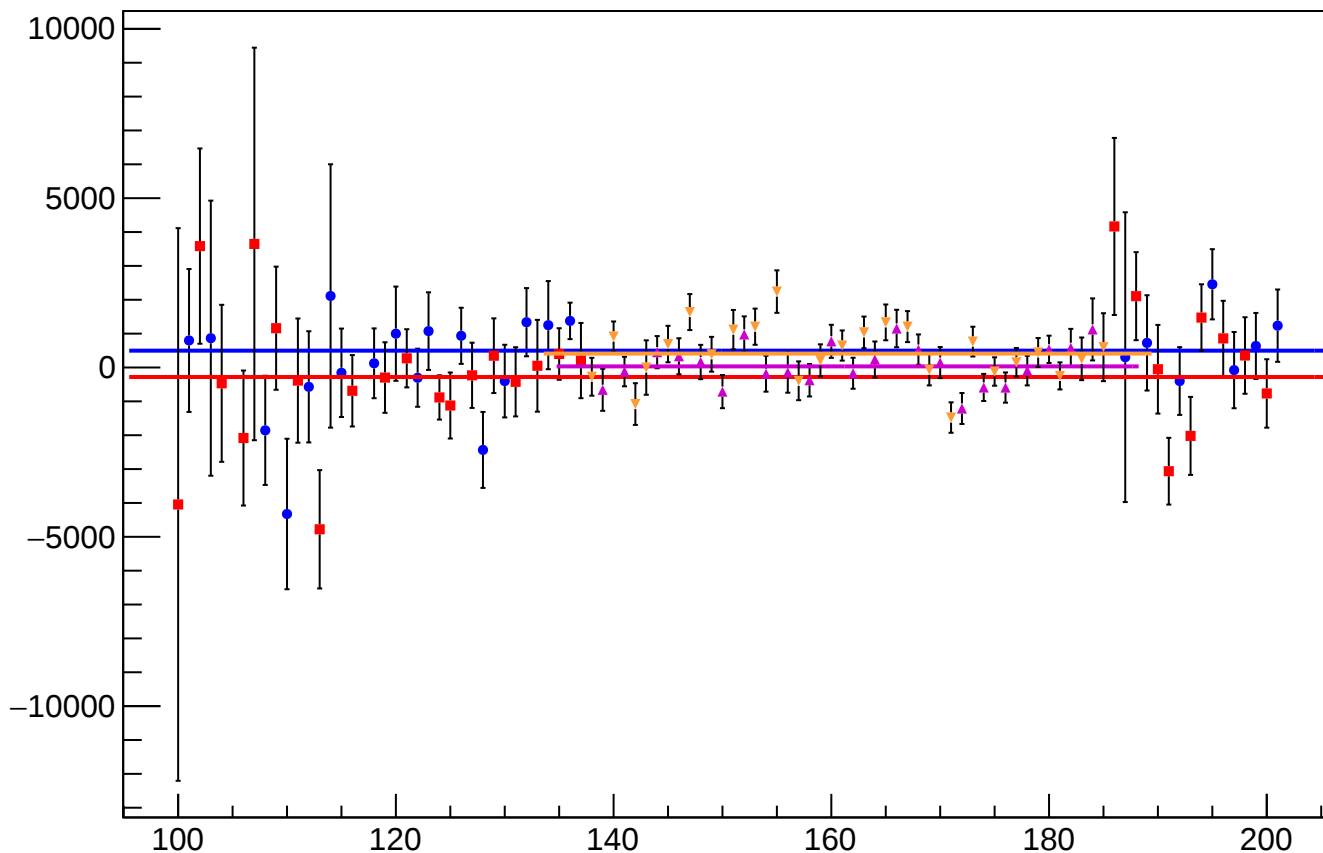
Right: 1901.401+/-0.277 χ^2/NDF : 1108133.2/51

In: 1861.211+/-0.247 χ^2/NDF : 657382.5/46

Out: 1866.940+/-0.238 χ^2/NDF : 512900.9/52

All: 1864.188+/-0.171 χ^2/NDF : 1170562.5/99

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 497.309+/-230.433 χ^2/NDF : 25.8/23

Left Out: 411.072+/-100.456 χ^2/NDF : 61.2/24

Right Out: -280.494+/-219.511 χ^2/NDF : 35.4/27

Left In: 32.456+/-102.403 χ^2/NDF : 32.7/22

Left: 225.398+/-71.712 χ^2/NDF : 100.9/47

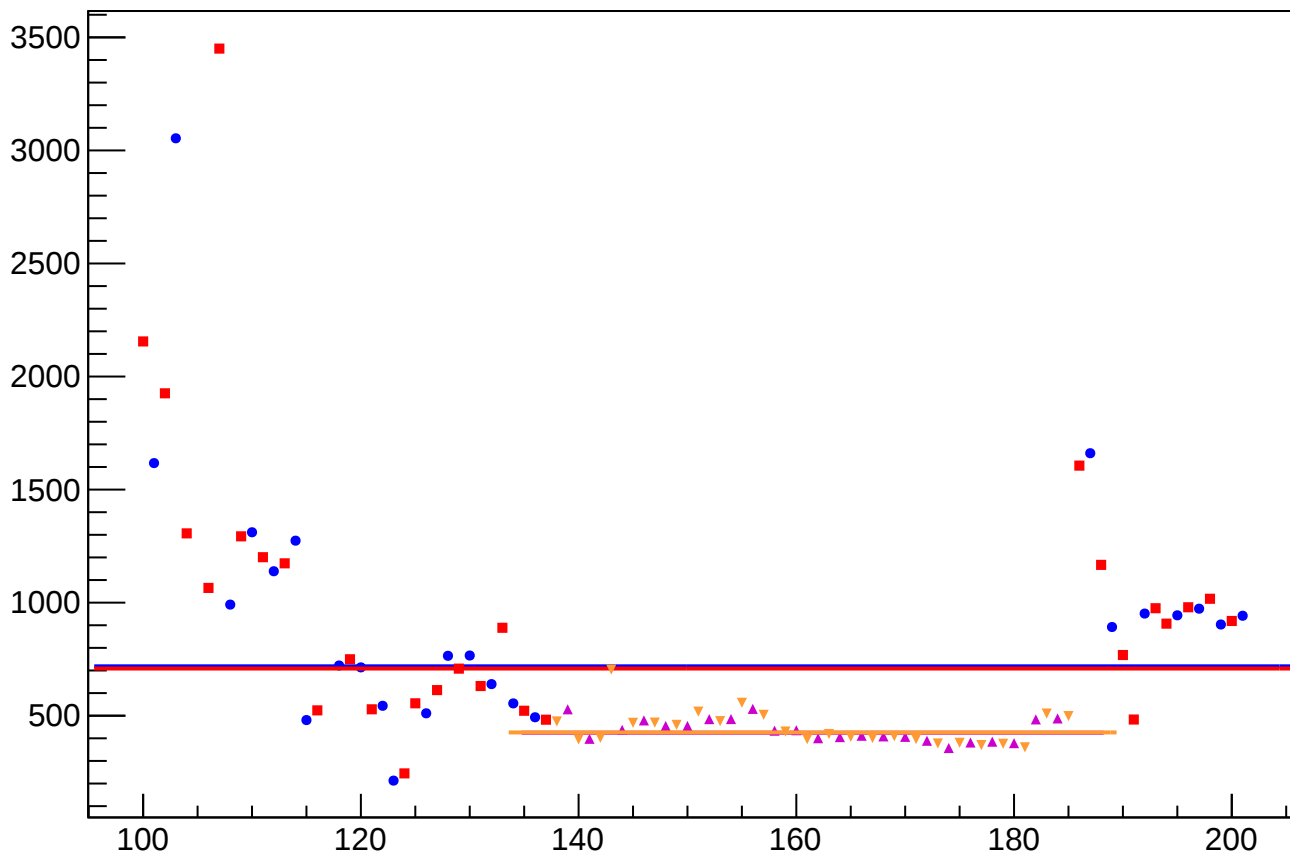
Right: 89.539+/-158.939 χ^2/NDF : 67.2/51

In: 109.119+/-93.579 χ^2/NDF : 61.9/46

Out: 291.317+/-91.345 χ^2/NDF : 104.8/52

All: 202.419+/-65.366 χ^2/NDF : 168.7/99

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 718.332 $\pm$ 0.163 χ^2 /NDF: 3054917.0/23

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 708.646 $\pm$ 0.155 χ^2 /NDF: 4172696.8/27

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

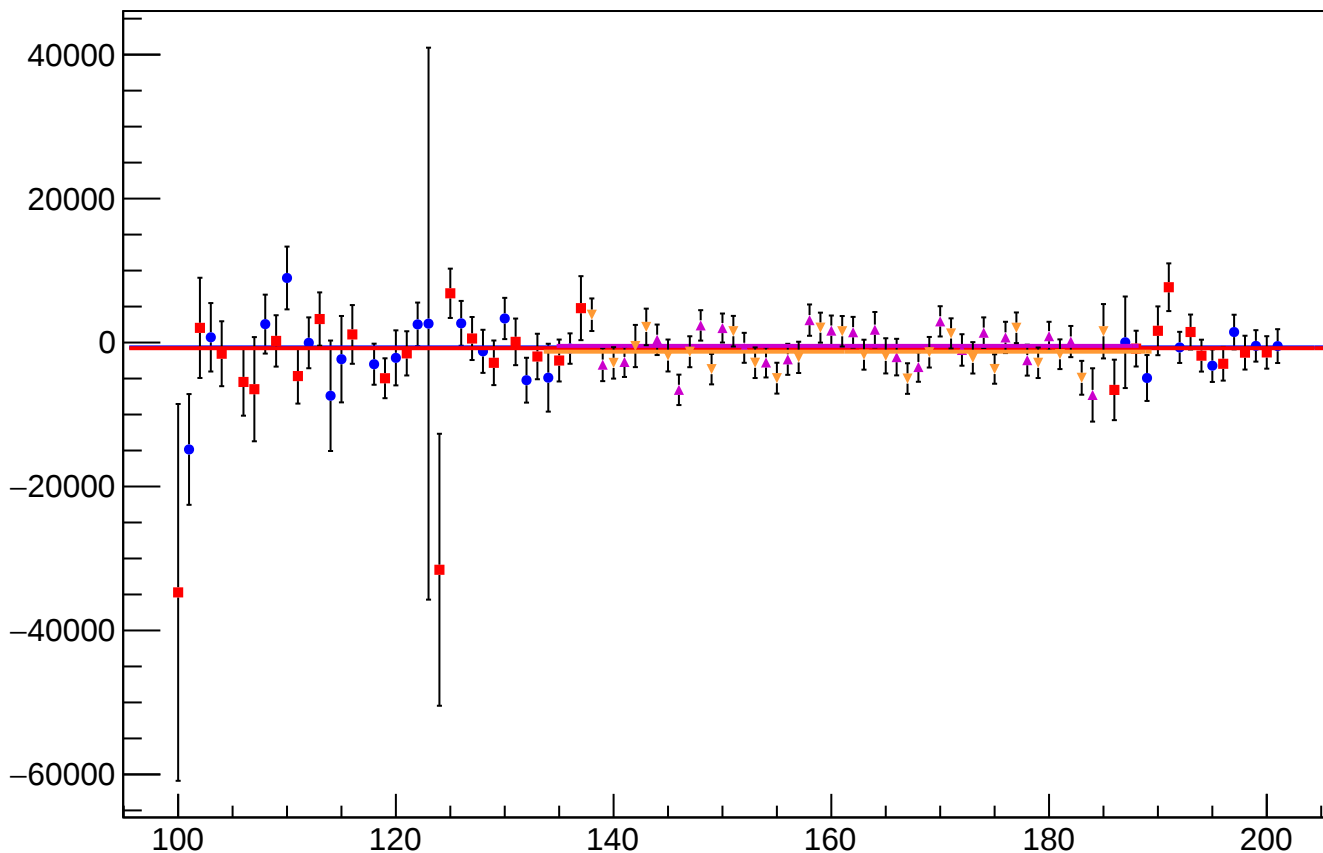
Right: 713.254 $\pm$ 0.112 χ^2 /NDF: 7229466.5/51

In: 473.074 $\pm$ 0.066 χ^2 /NDF: 6159587.7/46

Out: 474.967 $\pm$ 0.065 χ^2 /NDF: 7646951.3/52

All: 474.043 $\pm$ 0.046 χ^2 /NDF: 13806958.1/99

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -671.811+/-644.928 χ^2/NDF : 21.8/23

Left Out: -1267.885+/-443.219 χ^2/NDF : 30.8/24

Right Out: -785.736+/-614.171 χ^2/NDF : 29.7/27

Left In: -462.599+/-453.947 χ^2/NDF : 32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

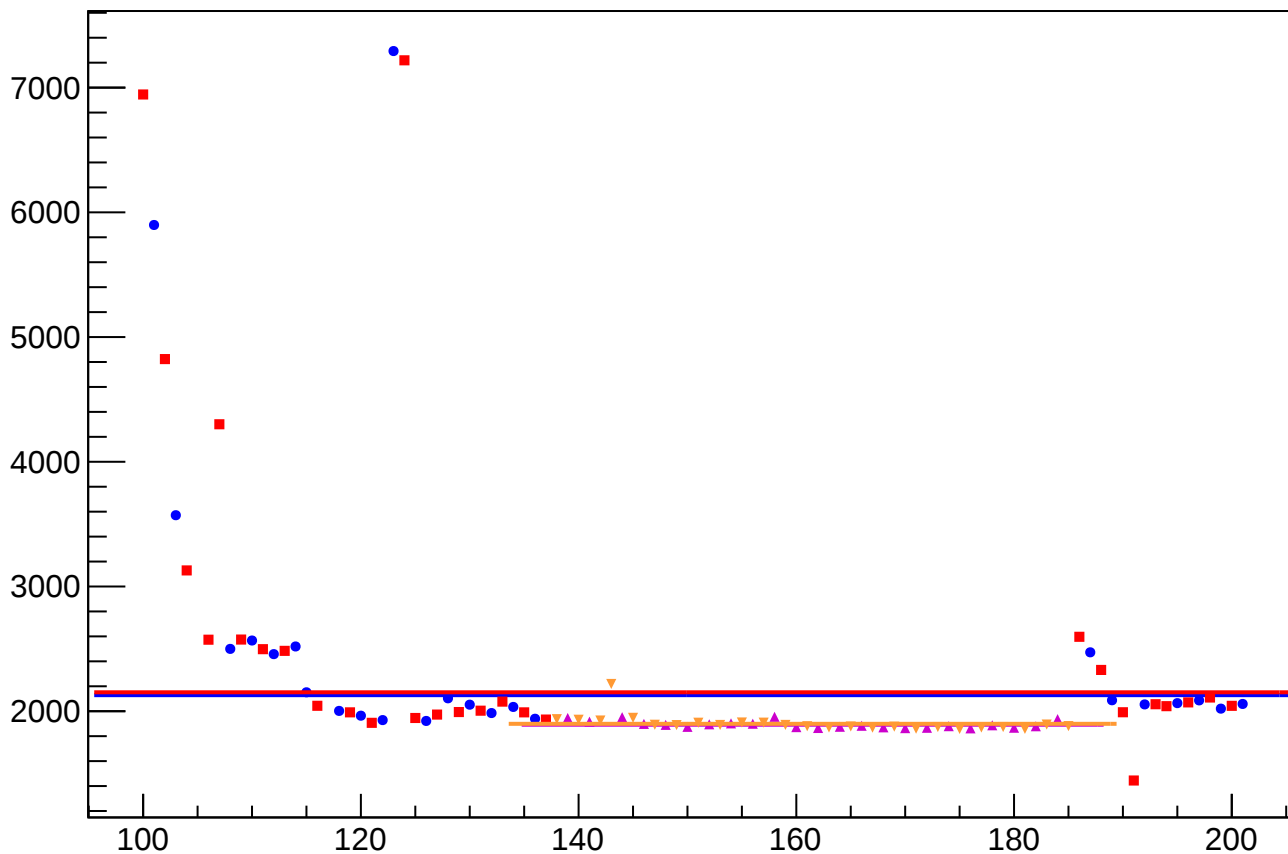
Right: -731.555+/-444.761 χ^2/NDF : 51.5/51

In: -531.911+/-371.211 χ^2/NDF : 54.4/46

Out: -1102.776+/-359.405 χ^2/NDF : 60.9/52

All: -826.565+/-258.211 χ^2/NDF : 116.5/99

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2128.712 $\pm$ 0.456 χ^2/NDF : 824980.2/23

Left Out: 1898.962 $\pm$ 0.313 χ^2/NDF :38680.4/24

Right Out: 2151.739 $\pm$ 0.434 χ^2/NDF : 1053493.7/27

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

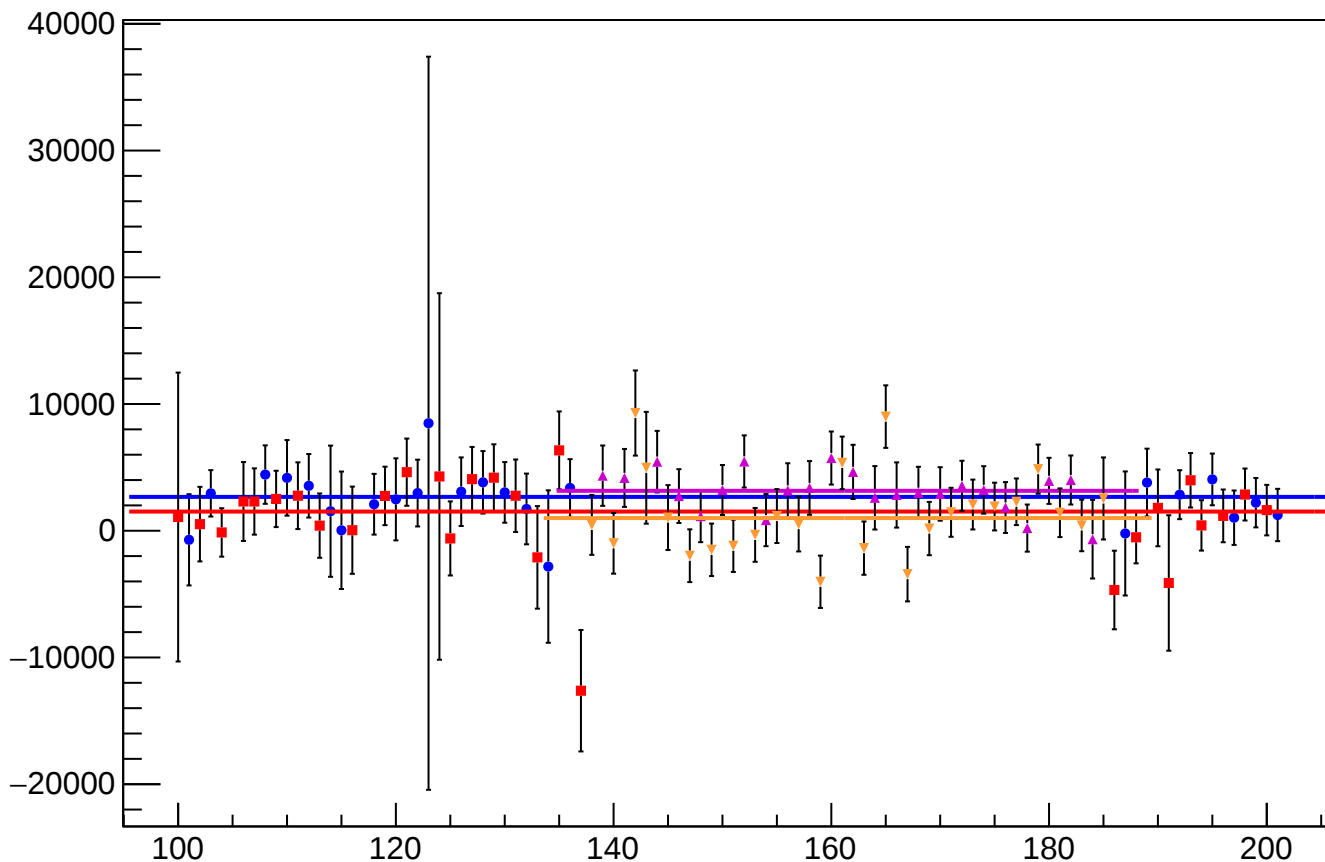
Right: 2140.788 $\pm$ 0.314 χ^2/NDF : 1879811.0/51

In: 1970.217 $\pm$ 0.262 χ^2/NDF :1013038.8/46

Out: 1985.524 $\pm$ 0.254 χ^2/NDF :1314946.8/52

All: 1978.118 $\pm$ 0.183 χ^2/NDF : 2329740.9/99

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2671.477 ± 529.707 χ^2/NDF : 5.8/23

Left Out: 1001.263 ± 435.247 χ^2/NDF : 44.6/24

Right Out: 1513.607 ± 500.479 χ^2/NDF : 26.4/27

Left In: 3150.437 ± 441.145 χ^2/NDF : 11.8/22

Left: 2061.387 ± 309.830 χ^2/NDF : 68.5/47

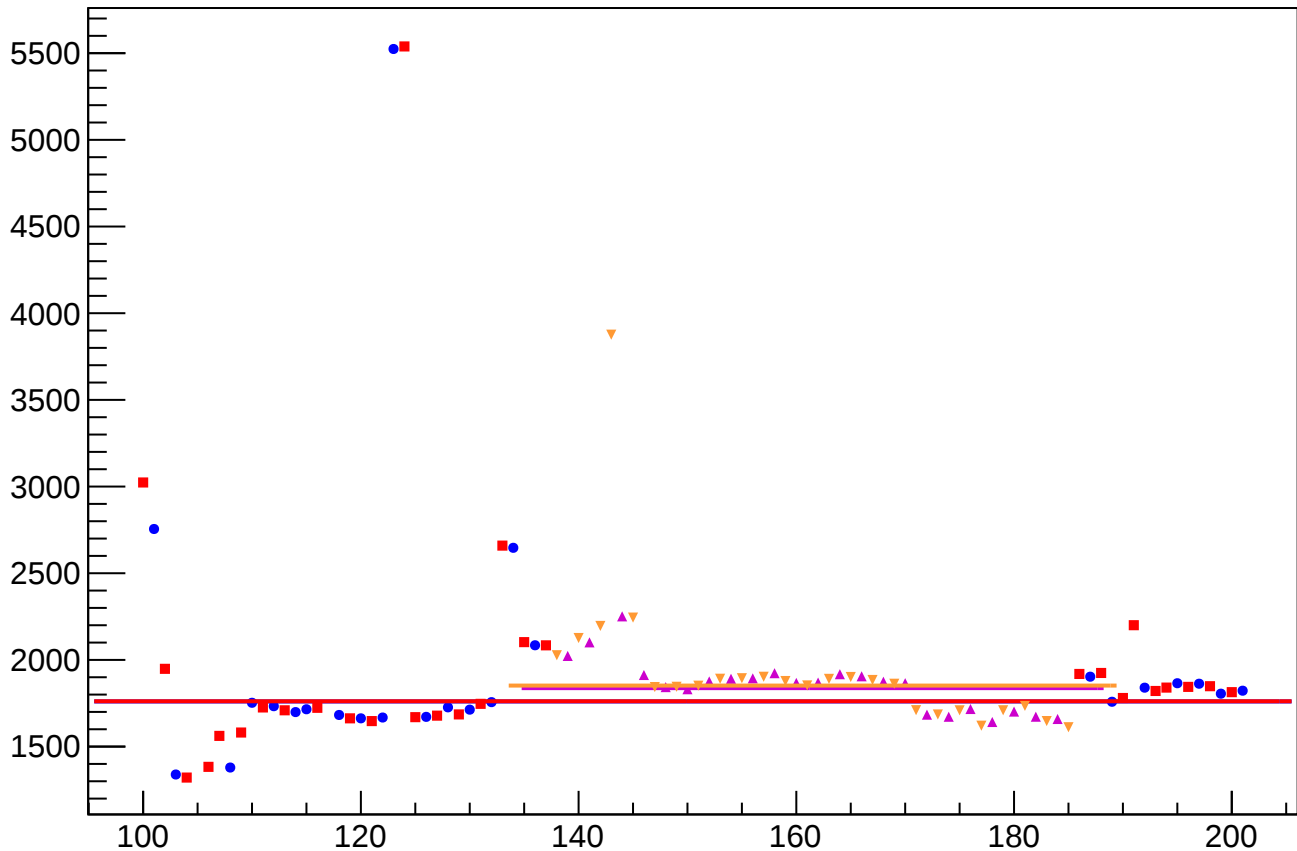
Right: 2059.718 ± 363.786 χ^2/NDF : 34.7/51

In: 2954.287 ± 338.984 χ^2/NDF : 18.1/46

Out: 1221.891 ± 328.424 χ^2/NDF : 71.6/52

All: 2060.685 ± 235.876 χ^2/NDF : 103.2/99

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1760.303+/-0.375 χ^2/NDF : 459577.4/23

Left Out: 1851.959+/-0.308 χ^2/NDF : 648954.2/24

Right Out: 1761.466+/-0.354 χ^2/NDF : 520518.2/27

Left In: 1837.151+/-0.312 χ^2/NDF : 200514.0/22

Left: 1844.654+/-0.219 χ^2/NDF : 850610.1/47

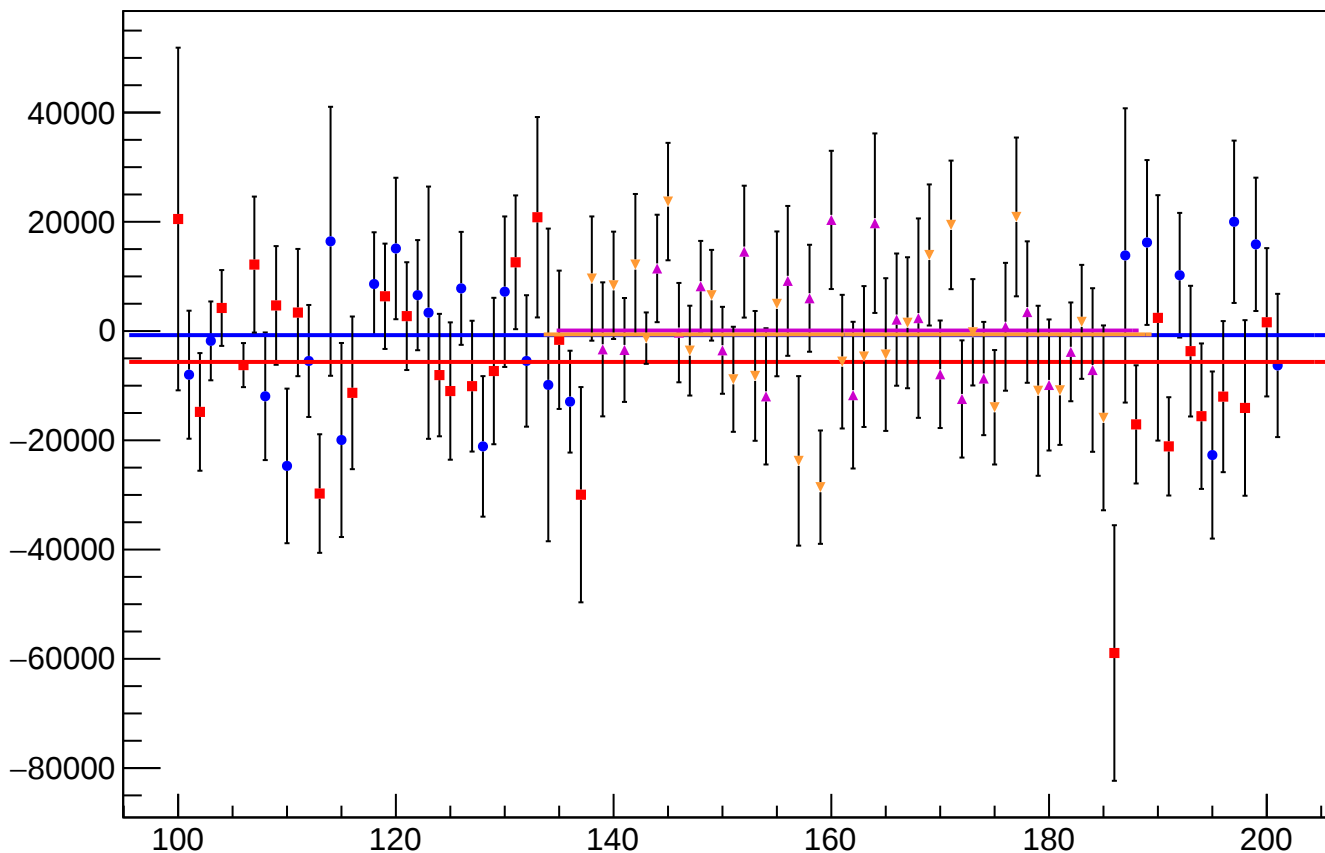
Right: 1760.917+/-0.257 χ^2/NDF : 980100.7/51

In: 1805.679+/-0.240 χ^2/NDF : 684946.6/46

Out: 1812.990+/-0.232 χ^2/NDF : 1206701.8/52

All: 1809.450+/-0.167 χ^2/NDF : 1892128.3/99

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -748.266 ± 2523.295 $\chi^2/\text{NDF}: 23.1/23$

Left Out: -619.372 ± 2069.686 $\chi^2/\text{NDF}: 30.1/24$

Right Out: -5654.593 ± 2016.323 $\chi^2/\text{NDF}: 31.4/27$

Left In: 93.334 ± 2293.826 $\chi^2/\text{NDF}: 14.6/22$

Left: -299.532 ± 1536.638 $\chi^2/\text{NDF}: 44.8/47$

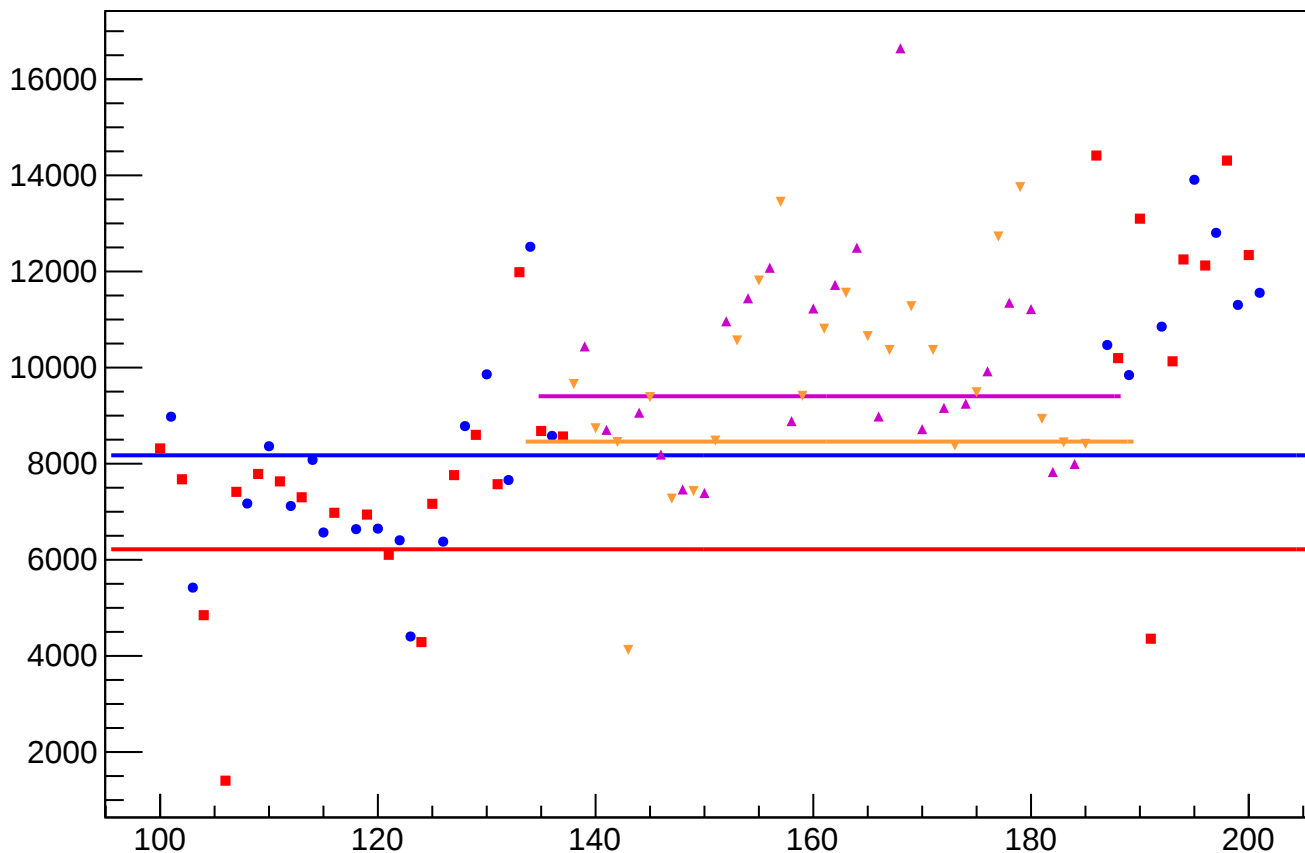
Right: -3742.606 ± 1575.188 $\chi^2/\text{NDF}: 56.8/51$

In: -287.466 ± 1697.320 $\chi^2/\text{NDF}: 37.8/46$

Out: -3202.732 ± 1444.253 $\chi^2/\text{NDF}: 64.6/52$

All: -1978.422 ± 1099.943 $\chi^2/\text{NDF}: 104.1/99$

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8174.408 $\pm$ 1.784 χ^2 /NDF: 1585482.9/23

Left Out: 8459.960 $\pm$ 1.463 χ^2 /NDF:3087200.5/24

Right Out: 6218.825 $\pm$ 1.426 χ^2 /NDF: 6285258.7/27

Left In: 9403.481 $\pm$ 1.622 χ^2 /NDF:1142646.9/22

Left: 8883.382 $\pm$ 1.087 χ^2 /NDF: 4416376.4/47

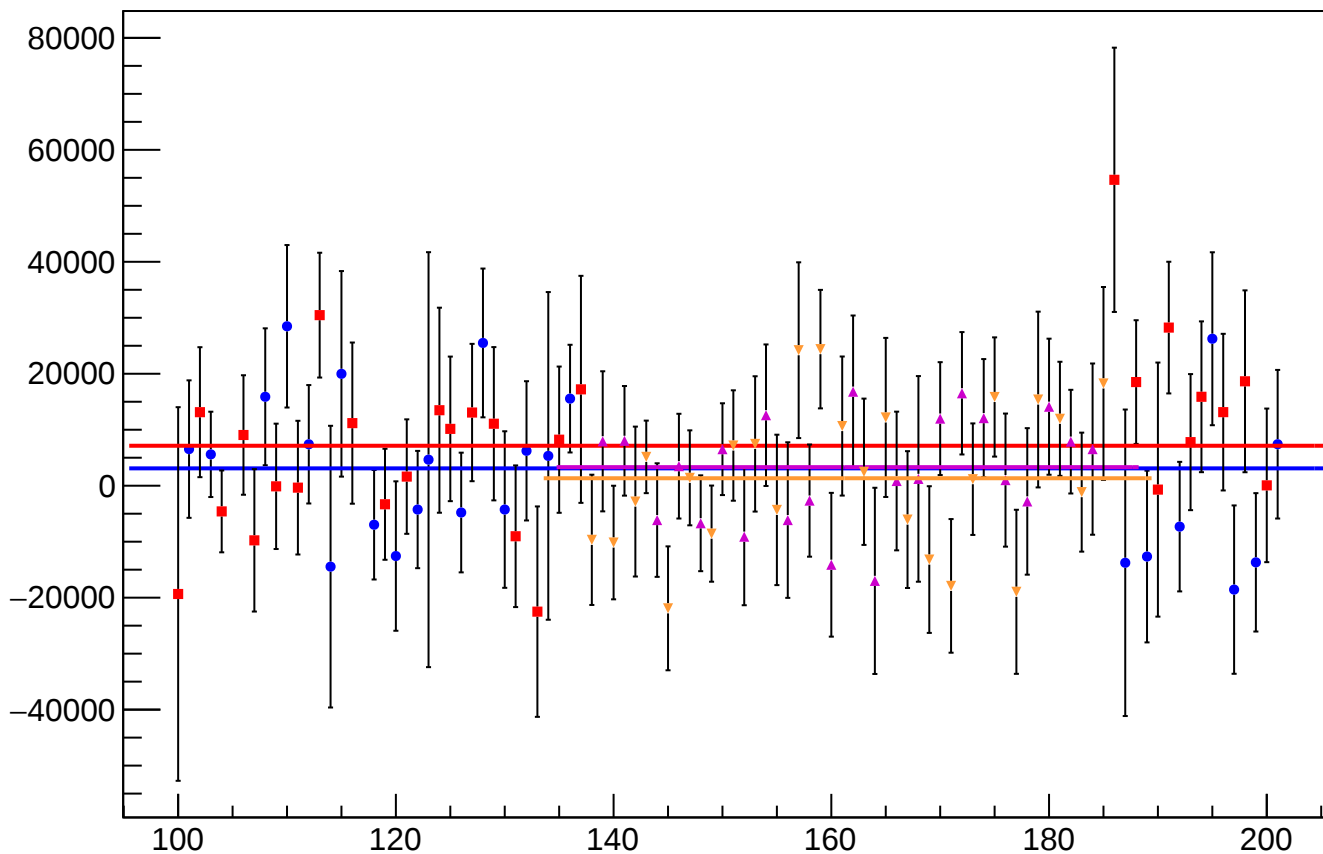
Right: 6980.912 $\pm$ 1.114 χ^2 /NDF: 8603888.3/51

In: 8847.360 $\pm$ 1.200 χ^2 /NDF:2987939.9/46

Out: 7310.128 $\pm$ 1.021 χ^2 /NDF:10575619.5/52

All: 7955.712 $\pm$ 0.778 χ^2 /NDF: 14515118.3/95

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3098.328 $\pm$ 2612.414 χ^2/NDF : 22.7/23

Left Out: 1332.828 $\pm$ 2213.733 χ^2/NDF : 28.0/24

Right Out: 7138.512 $\pm$ 2400.290 χ^2/NDF : 26.6/27

Left In: 3316.909 $\pm$ 2344.543 χ^2/NDF : 13.7/22

Left: 2267.978 $\pm$ 1609.604 χ^2/NDF : 42.2/47

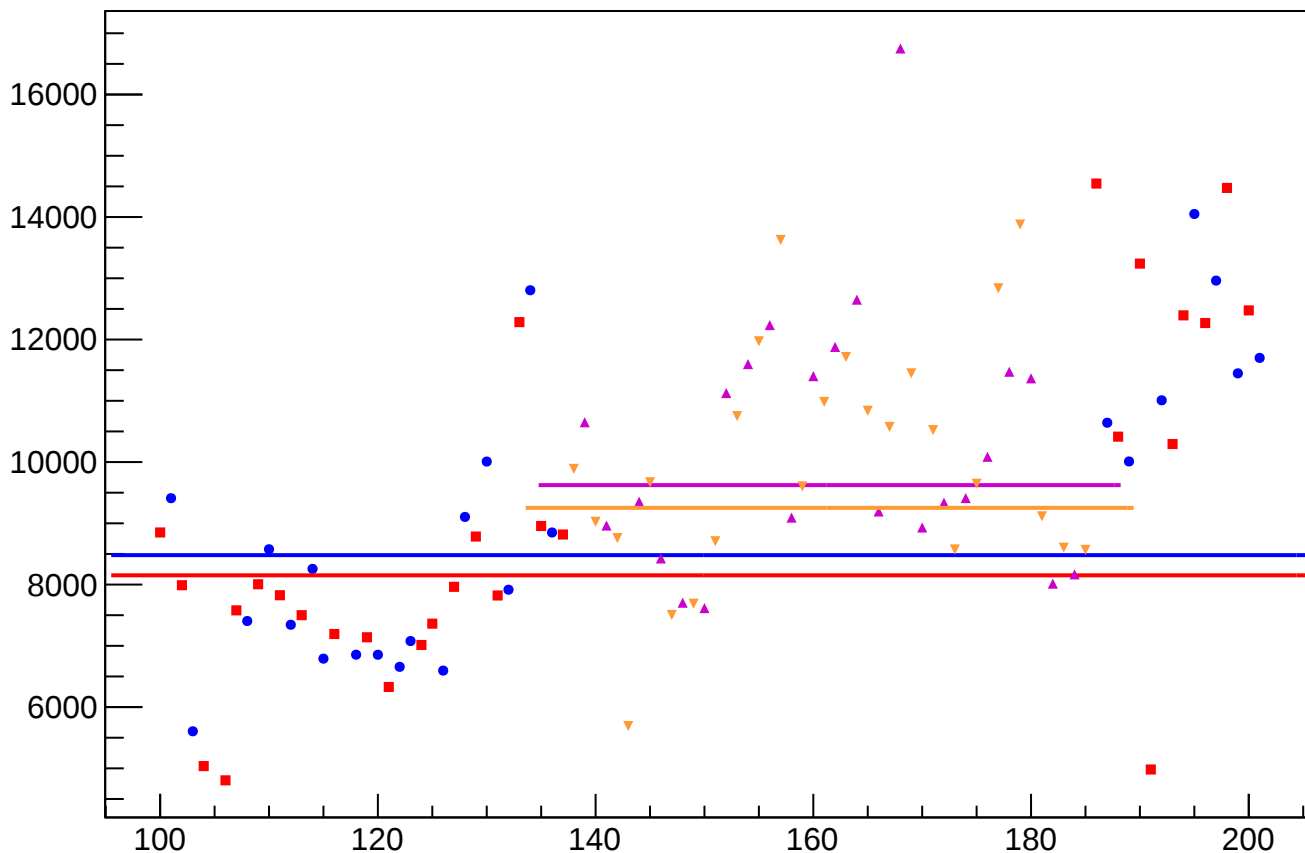
Right: 5289.085 $\pm$ 1767.503 χ^2/NDF : 50.6/51

In: 3219.396 $\pm$ 1744.885 χ^2/NDF : 36.4/46

Out: 4001.315 $\pm$ 1627.307 χ^2/NDF : 57.8/52

All: 3637.585 $\pm$ 1190.077 χ^2/NDF : 94.4/99

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 8480.679 $\pm$ 1.847 χ^2/NDF : 1439853.9/23

Left Out: 9252.712 $\pm$ 1.565 χ^2/NDF : 1597668.9/24

Right Out: 8150.944 $\pm$ 1.697 χ^2/NDF : 2207681.1/27

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

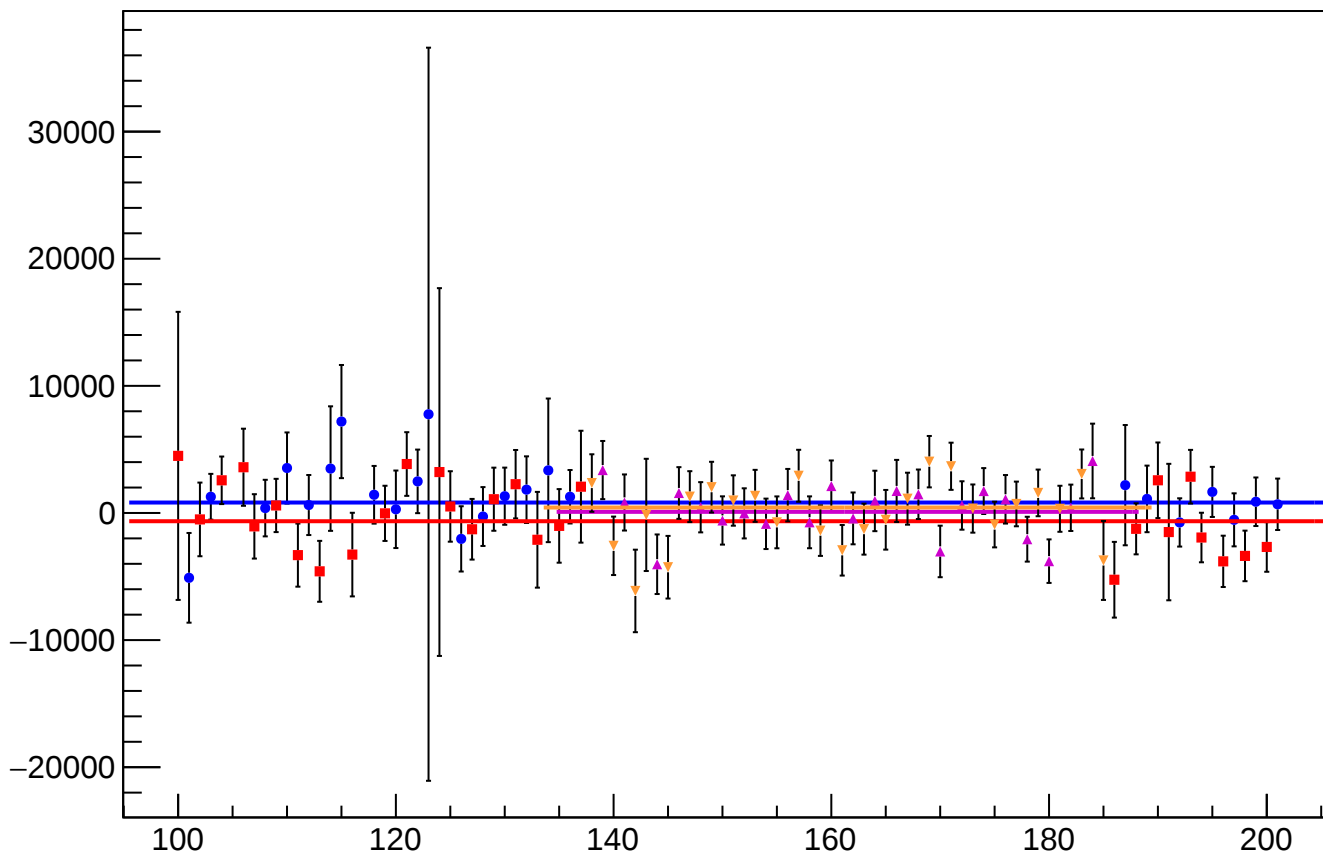
Right: 8301.870 $\pm$ 1.250 χ^2/NDF : 3664814.0/51

In: 9113.648 $\pm$ 1.234 χ^2/NDF : 2721769.4/46

Out: 8746.250 $\pm$ 1.151 χ^2/NDF : 4033078.3/52

All: 8917.148 $\pm$ 0.841 χ^2/NDF : 6802272.2/99

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 821.092 ± 508.596 $\chi^2/\text{NDF}: 10.1/23$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -649.163 ± 481.371 $\chi^2/\text{NDF}: 28.1/27$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

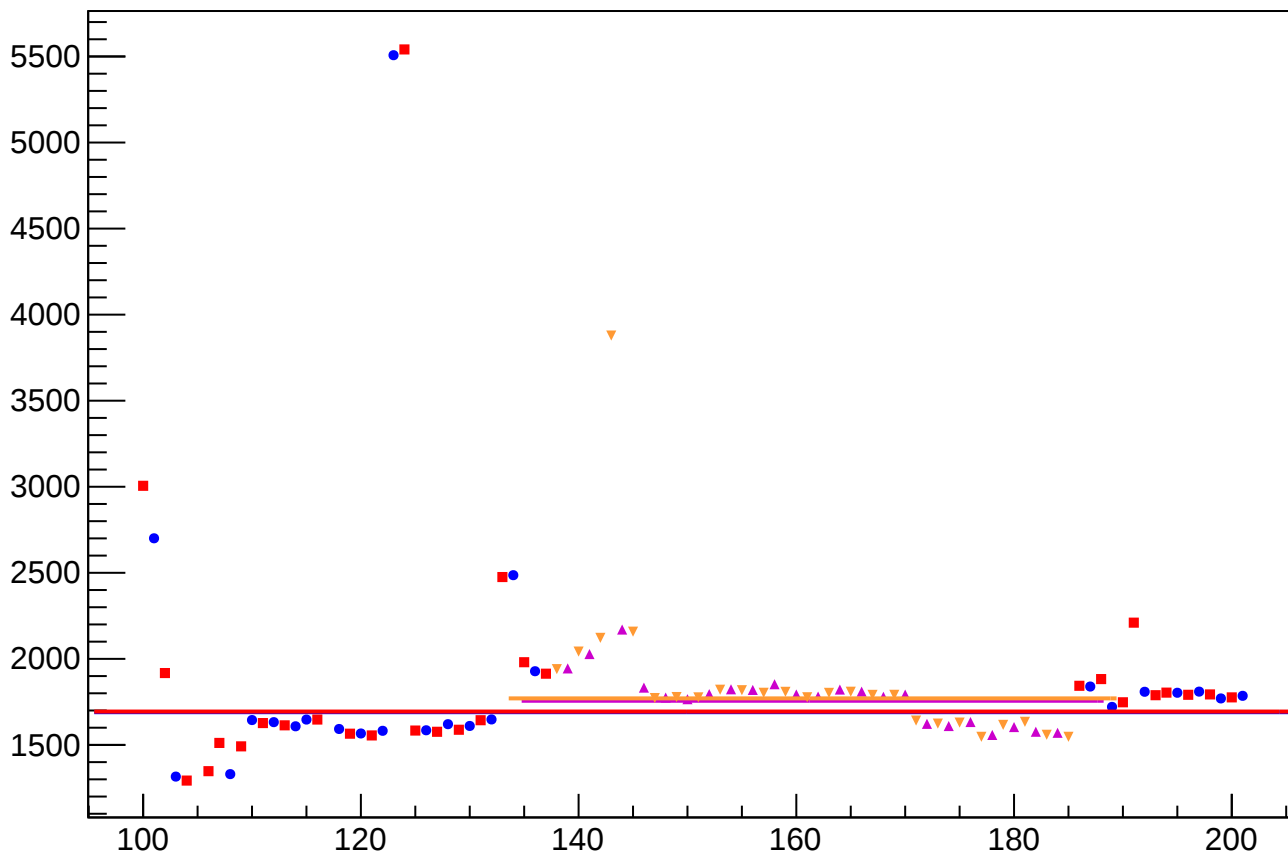
Right: 45.562 ± 349.609 $\chi^2/\text{NDF}: 42.6/51$

In: 387.099 ± 324.744 $\chi^2/\text{NDF}: 32.3/46$

Out: -32.178 ± 314.915 $\chi^2/\text{NDF}: 59.7/52$

All: 171.019 ± 226.073 $\chi^2/\text{NDF}: 92.8/99$

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1690.136+/-0.360 χ^2/NDF : 455654.0/23

Left Out: 1770.384+/-0.294 χ^2/NDF : 699536.9/24

Right Out: 1693.895+/-0.340 χ^2/NDF : 533075.5/27

Left In: 1756.623+/-0.298 χ^2/NDF : 223077.6/22

Left: 1763.595+/-0.210 χ^2/NDF : 923692.1/47

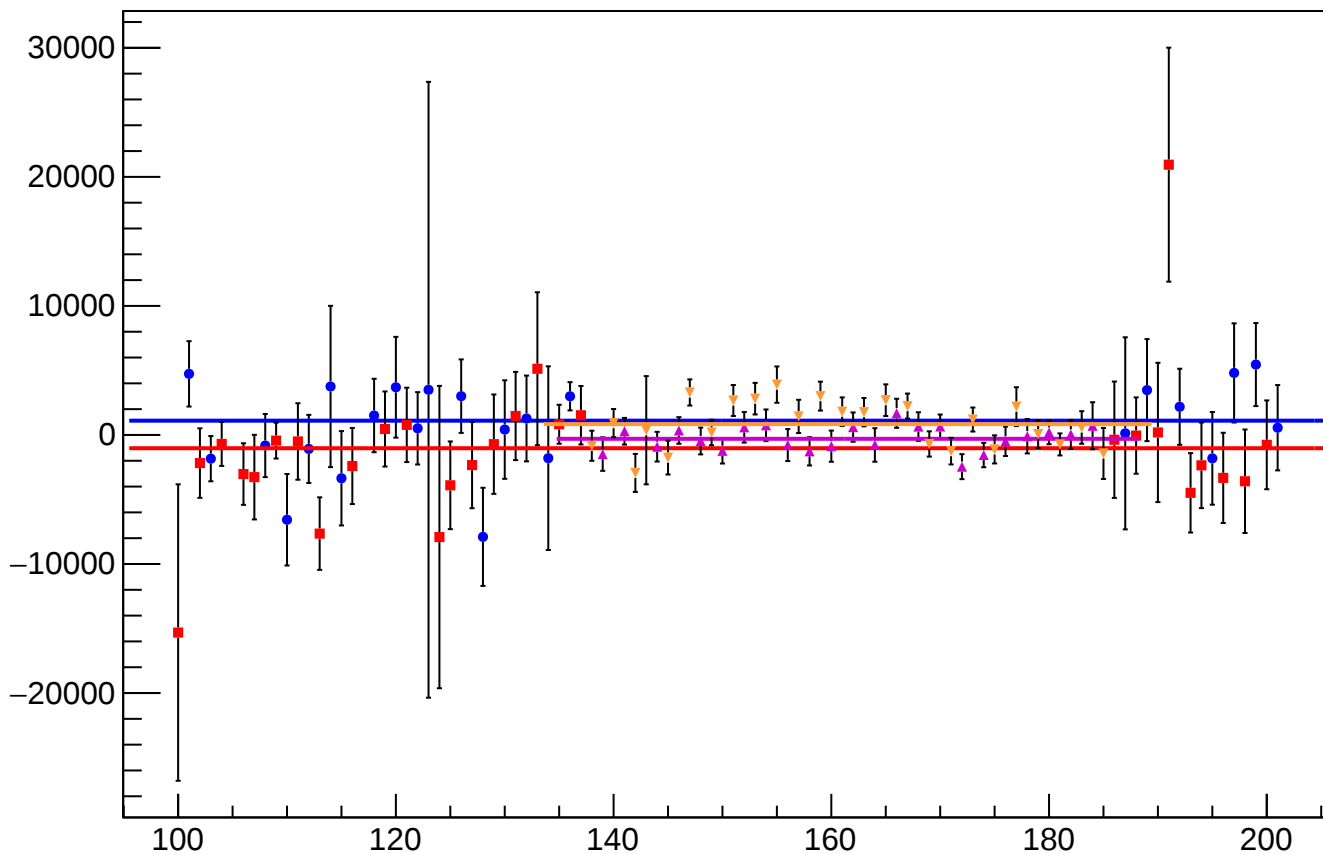
Right: 1692.119+/-0.247 χ^2/NDF : 988787.2/51

In: 1729.517+/-0.230 χ^2/NDF : 698975.8/46

Out: 1737.648+/-0.223 χ^2/NDF : 1261497.4/52

All: 1733.707+/-0.160 χ^2/NDF : 1961119.4/99

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1107.303+/-574.687 χ^2/NDF : 26.2/23

Left Out: 839.344+/-230.465 χ^2/NDF : 54.4/24

Right Out: -1027.683+/-534.295 χ^2/NDF : 23.5/27

Left In: -298.801+/-231.400 χ^2/NDF : 18.3/22

Left: 272.574+/-163.293 χ^2/NDF : 84.9/47

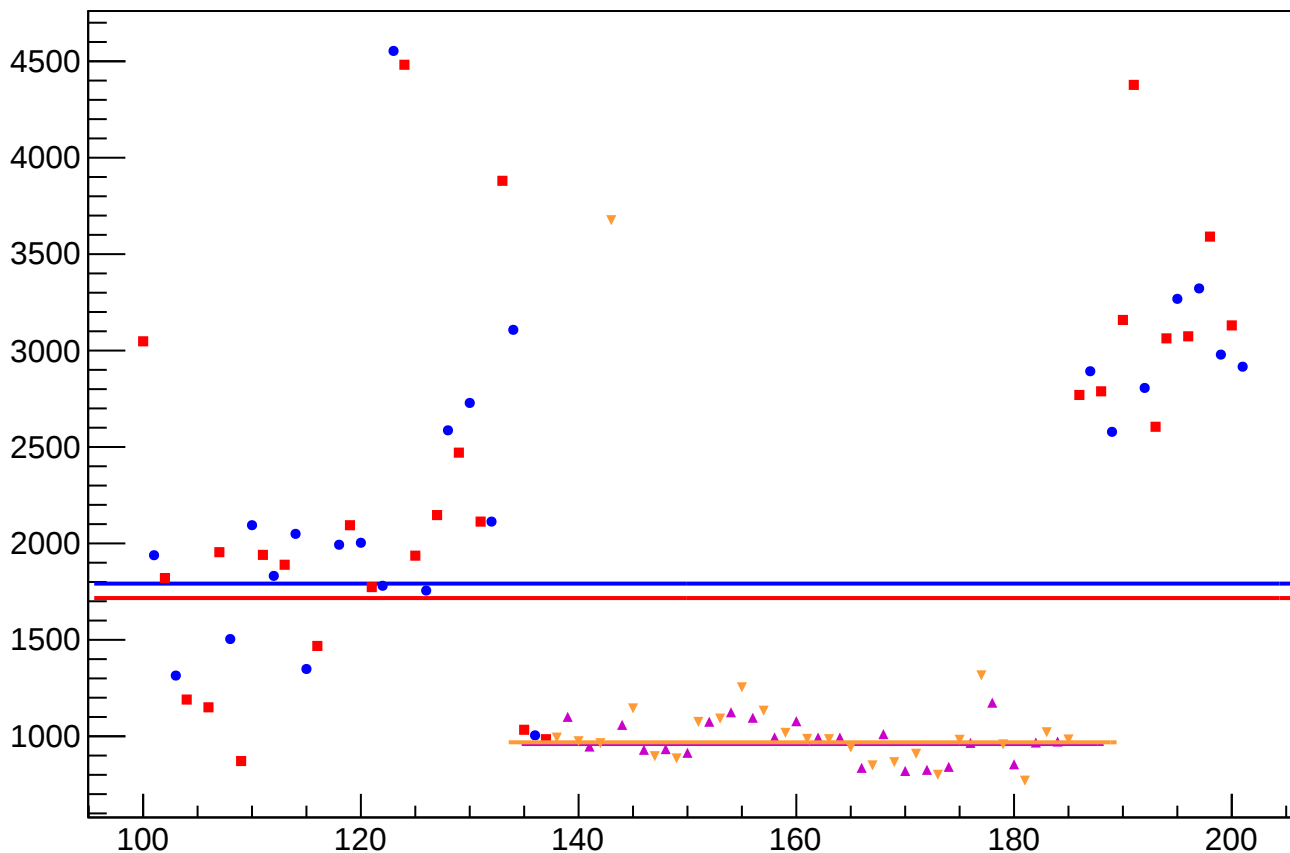
Right: -37.849+/-391.305 χ^2/NDF : 57.2/51

In: -102.635+/-214.652 χ^2/NDF : 49.7/46

Out: 546.462+/-211.618 χ^2/NDF : 88.2/52

All: 226.534+/-150.698 χ^2/NDF : 142.6/99

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1791.651+/-0.406 χ^2/NDF : 3123261.1/23

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1716.631+/-0.378 χ^2/NDF : 4550089.1/27

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

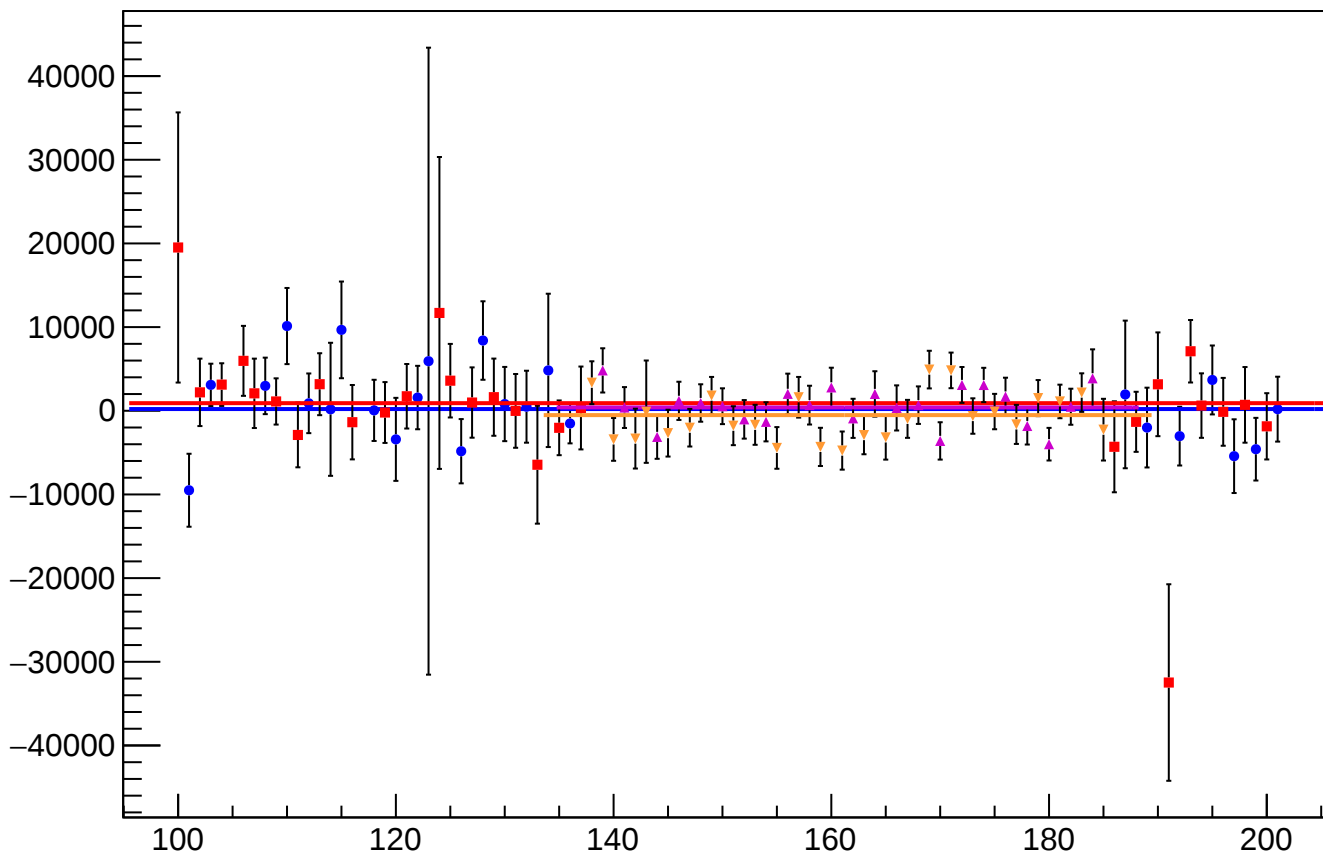
Right: 1751.412+/-0.277 χ^2/NDF : 7691630.9/51

In: 1075.856+/-0.152 χ^2/NDF : 7100247.5/46

Out: 1086.038+/-0.150 χ^2/NDF : 9248020.3/52

All: 1081.020+/-0.107 χ^2/NDF : 16350550.1/95

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 206.835 $\pm$ 831.066 χ^2 /NDF: 25.8/23

Left Out: -517.719 $\pm$ 481.486 χ^2 /NDF:34.0/24

Right Out: 909.713 $\pm$ 785.587 χ^2 /NDF: 21.0/27

Left In: 397.398 $\pm$ 485.048 χ^2 /NDF:21.8/22

Left: -63.533 $\pm$ 341.714 χ^2 /NDF: 57.7/47

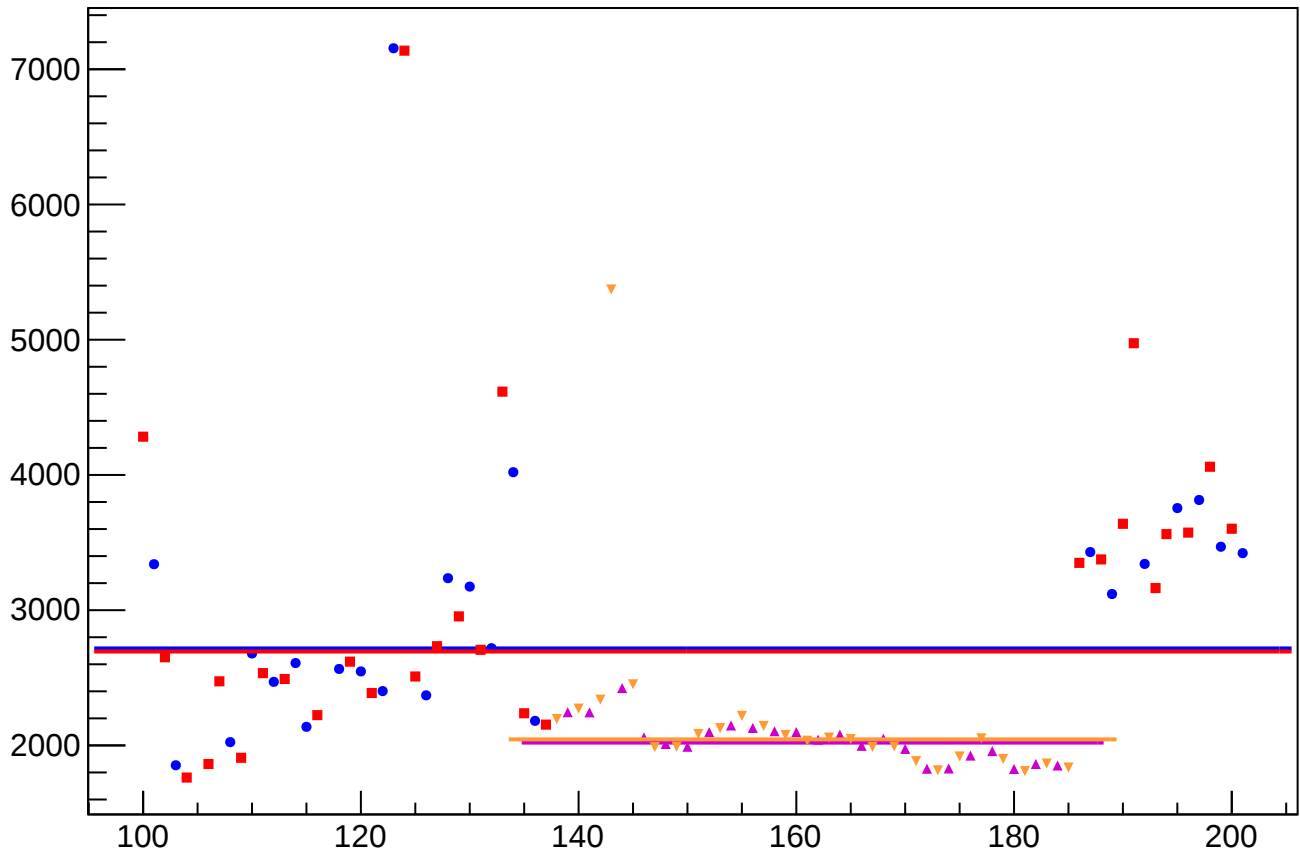
Right: 578.031 $\pm$ 570.895 χ^2 /NDF: 47.1/51

In: 348.978 $\pm$ 418.917 χ^2 /NDF:47.6/46

Out: -127.932 $\pm$ 410.516 χ^2 /NDF:57.5/52

All: 105.693 $\pm$ 293.204 χ^2 /NDF: 105.7/99

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2717.108+/-0.588 χ^2/NDF : 1128325.3/23

Left Out: 2044.722+/-0.340 χ^2/NDF : 788703.5/24

Right Out: 2694.365+/-0.555 χ^2/NDF : 1652022.0/27

Left In: 2020.802+/-0.343 χ^2/NDF : 173502.0/22

Left: 2032.850+/-0.242 χ^2/NDF : 964655.5/47

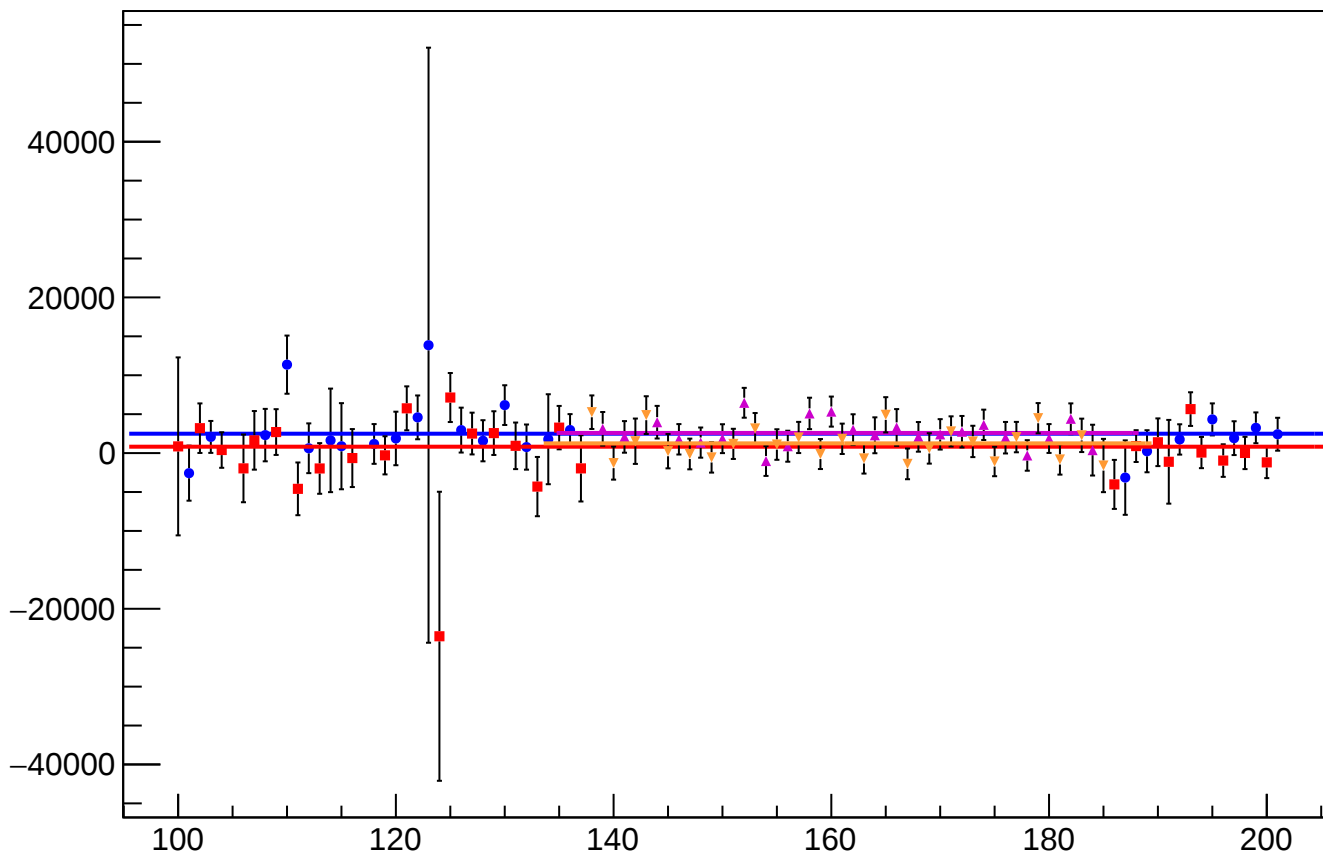
Right: 2705.097+/-0.404 χ^2/NDF : 2781138.3/51

In: 2197.726+/-0.296 χ^2/NDF : 2349071.3/46

Out: 2222.120+/-0.290 χ^2/NDF : 3434952.1/52

All: 2210.170+/-0.207 χ^2/NDF : 5787483.0/99

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2490.389+/-561.456 χ^2/NDF : 15.0/23

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 821.407+/-537.062 χ^2/NDF : 27.2/27

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

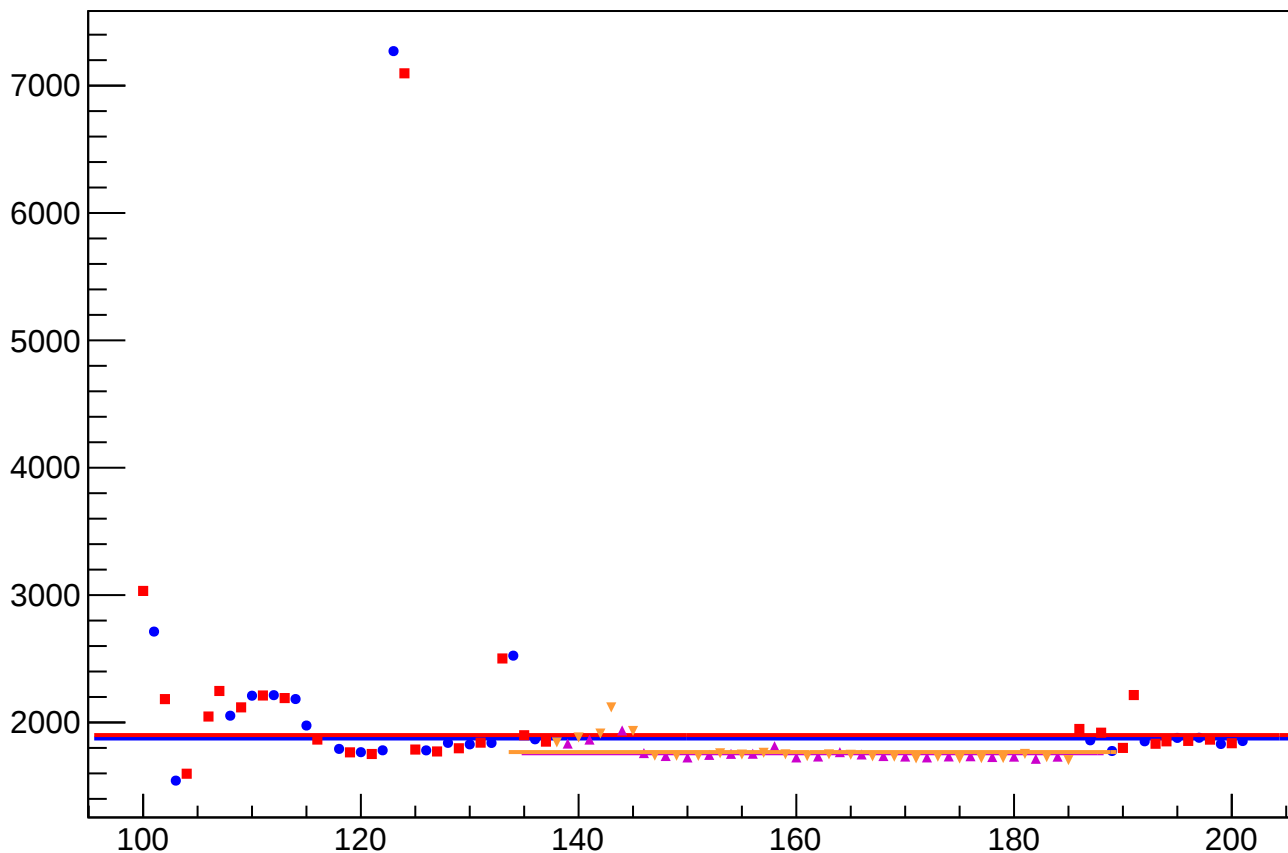
Right: 1618.854+/-388.097 χ^2/NDF : 46.8/51

In: 2552.136+/-337.088 χ^2/NDF : 32.5/46

Out: 1090.929+/-327.134 χ^2/NDF : 50.6/52

All: 1799.641+/-234.759 χ^2/NDF : 92.8/99

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1874.052+/-0.397 χ^2/NDF : 293000.9/23

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1900.923+/-0.379 χ^2/NDF : 379551.6/27

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

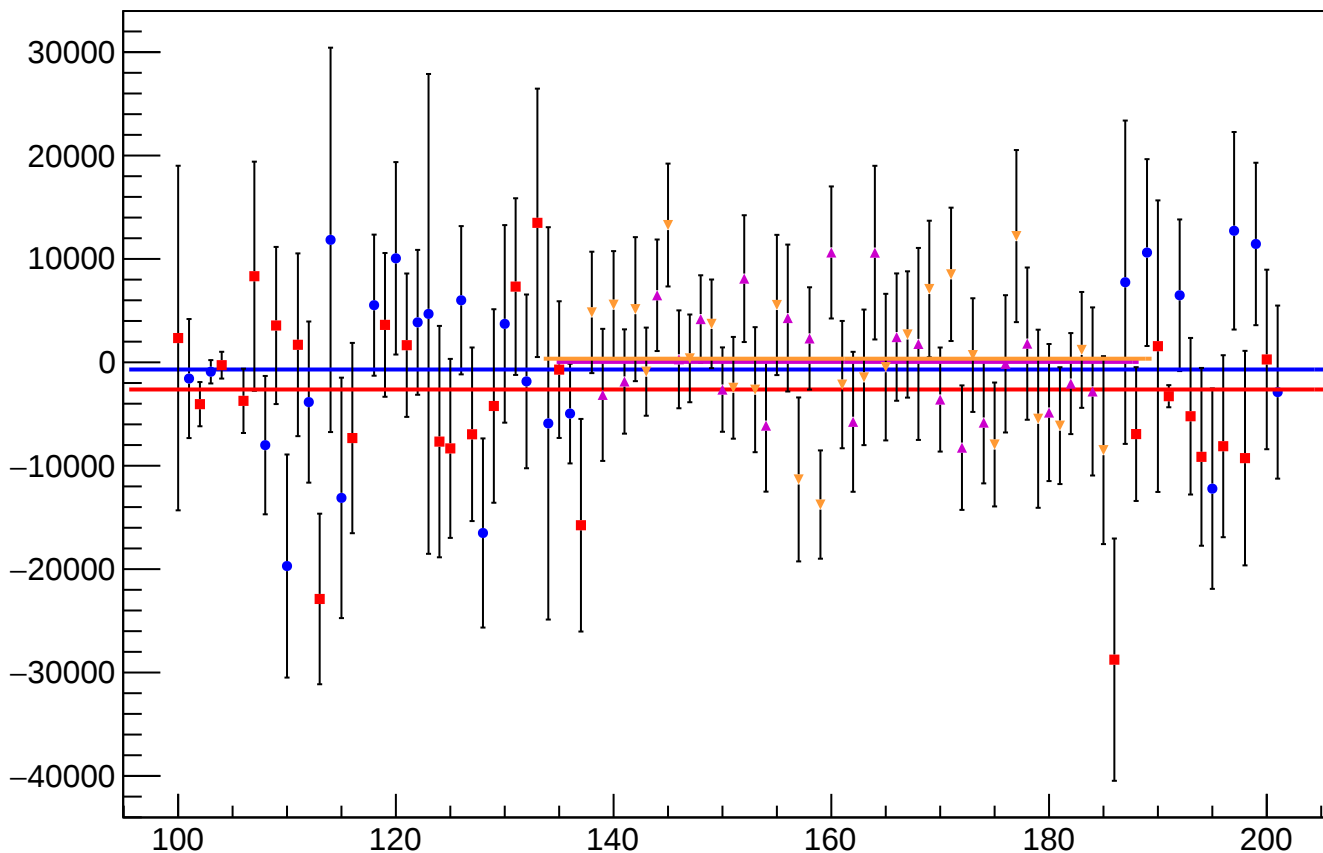
Right: 1888.095+/-0.274 χ^2/NDF : 674946.5/51

In: 1799.880+/-0.238 χ^2/NDF : 377382.8/46

Out: 1817.065+/-0.231 χ^2/NDF : 534925.8/52

All: 1808.733+/-0.166 χ^2/NDF : 914986.3/99

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -693.268 ± 946.102 $\chi^2/\text{NDF}: 22.4/23$

Left Out: 351.227 ± 1170.051 $\chi^2/\text{NDF}: 27.8/24$

Right Out: -2625.918 ± 689.605 $\chi^2/\text{NDF}: 26.3/27$

Left In: 40.618 ± 1207.491 $\chi^2/\text{NDF}: 16.0/22$

Left: 200.813 ± 840.276 $\chi^2/\text{NDF}: 43.9/47$

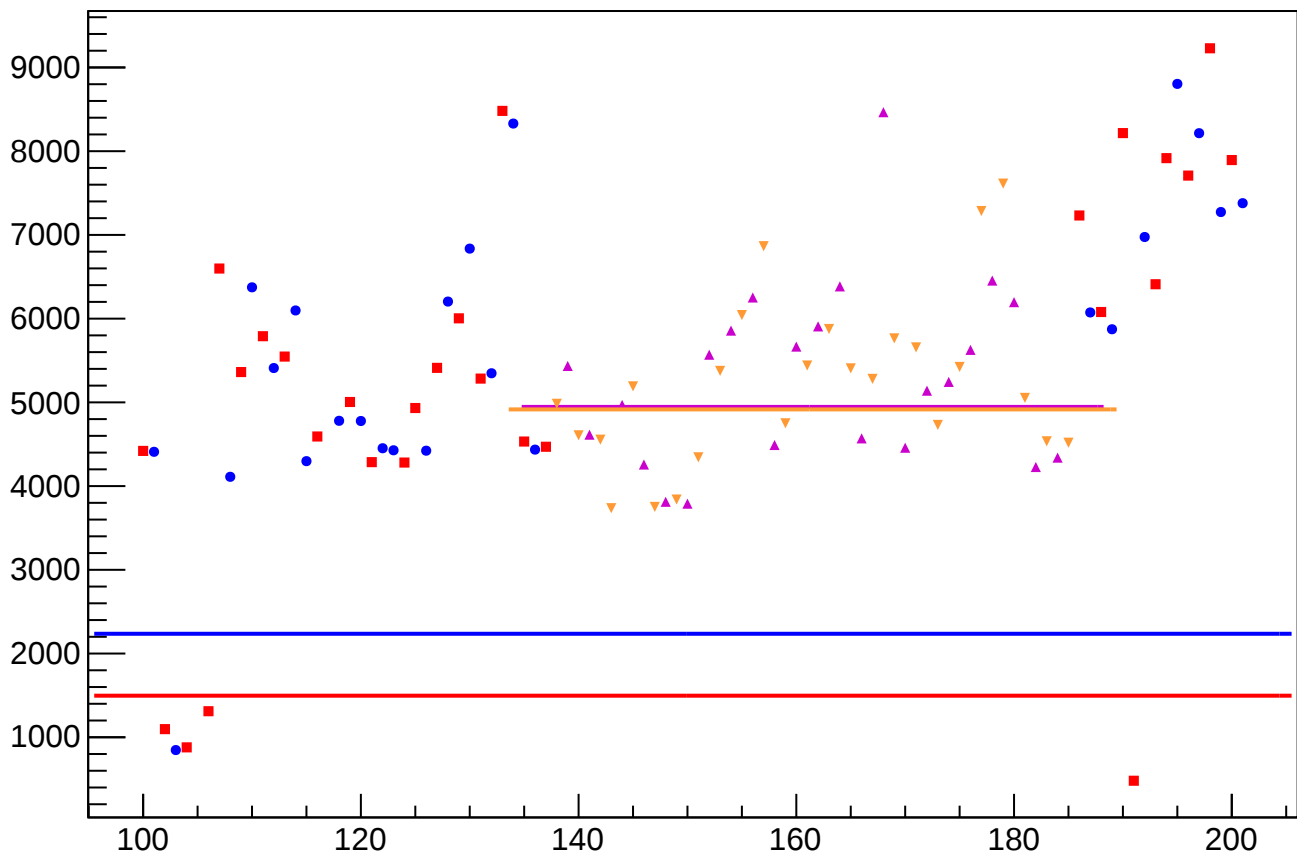
Right: -1955.380 ± 557.279 $\chi^2/\text{NDF}: 51.4/51$

In: -414.107 ± 744.728 $\chi^2/\text{NDF}: 38.6/46$

Out: -1858.372 ± 594.097 $\chi^2/\text{NDF}: 59.0/52$

All: -1296.702 ± 464.424 $\chi^2/\text{NDF}: 99.9/99$

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2236.144+/-0.669

χ^2/NDF : 11372215.5/23

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 1753.165+/-0.394

χ^2/NDF : 27508408.9/51

Right Out: 1496.566+/-0.488

χ^2/NDF : 15338076.1/27

In: 3266.872+/-0.527

χ^2/NDF : 18800945.4/46

Out: 2378.105+/-0.420

χ^2/NDF : 29201297.0/52

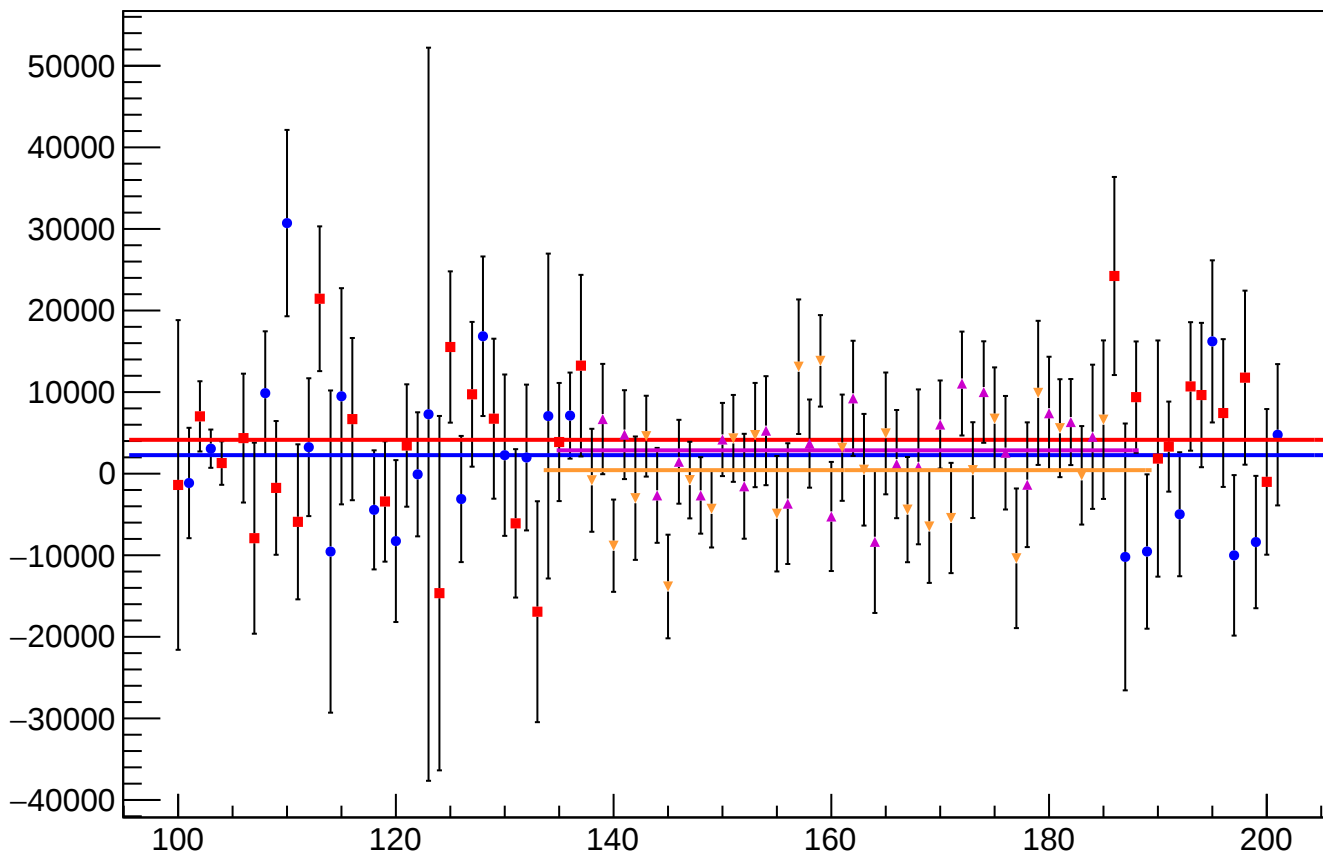
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2723.744+/-0.328

χ^2/NDF : 49742946.8/95

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2270.947+/-1462.803 χ^2/NDF : 22.3/23

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 4149.423+/-1393.498 χ^2/NDF : 21.8/27

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

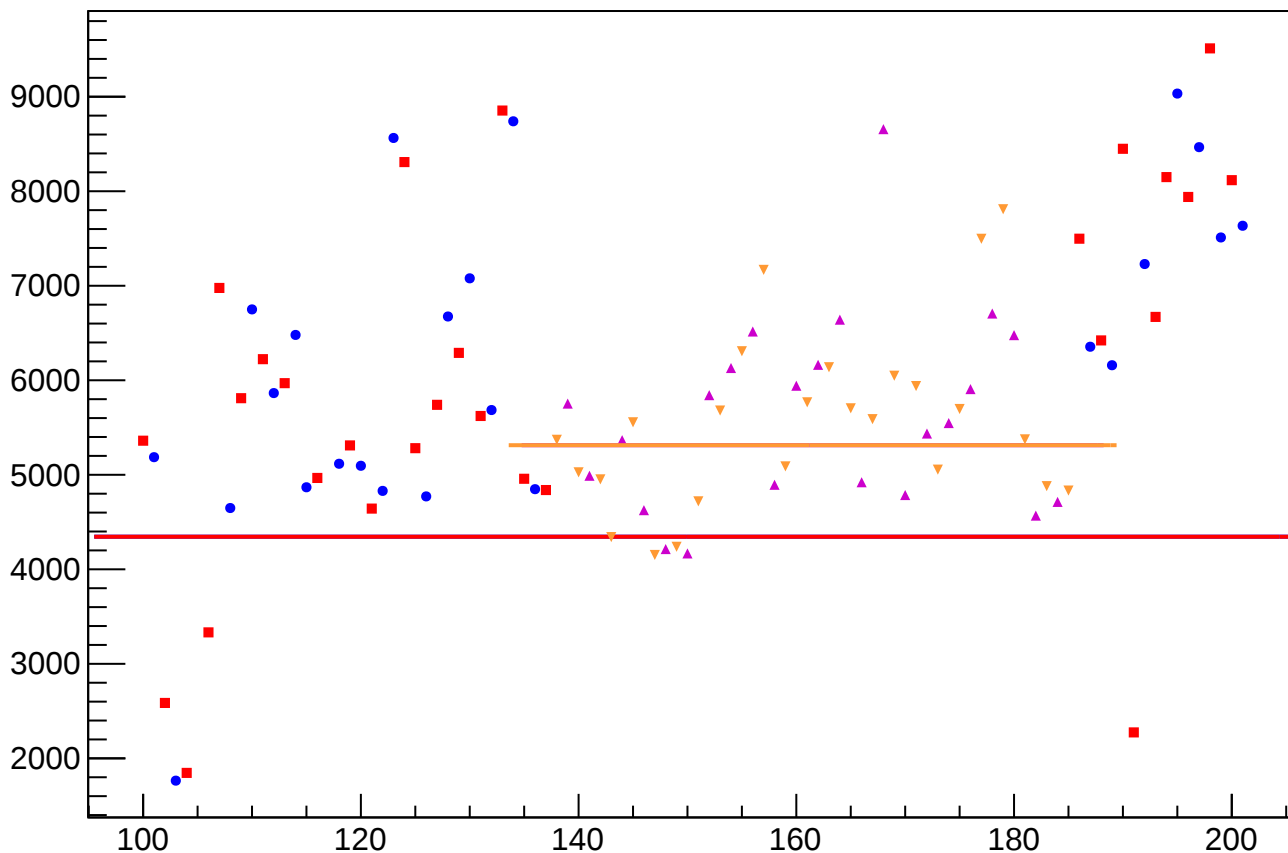
Right: 3255.737+/-1008.963 χ^2/NDF : 45.0/51

In: 2601.924+/-968.504 χ^2/NDF : 35.3/46

Out: 2101.008+/-933.891 χ^2/NDF : 52.8/52

All: 2342.355+/-672.265 χ^2/NDF : 88.2/99

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4345.344+/-1.034

χ^2/NDF : 4910384.7/23

Left: 5312.937+/-0.637

χ^2/NDF : 1851770.5/47

Left Out: 5313.008+/-0.890

χ^2/NDF : 894369.8/24

Right: 4344.975+/-0.712

χ^2/NDF : 10345080.4/51

Right Out: 4344.644+/-0.980

χ^2/NDF : 5434695.5/27

In: 4888.739+/-0.685

χ^2/NDF : 6359183.6/46

Out: 4875.670+/-0.659

χ^2/NDF : 6864043.8/52

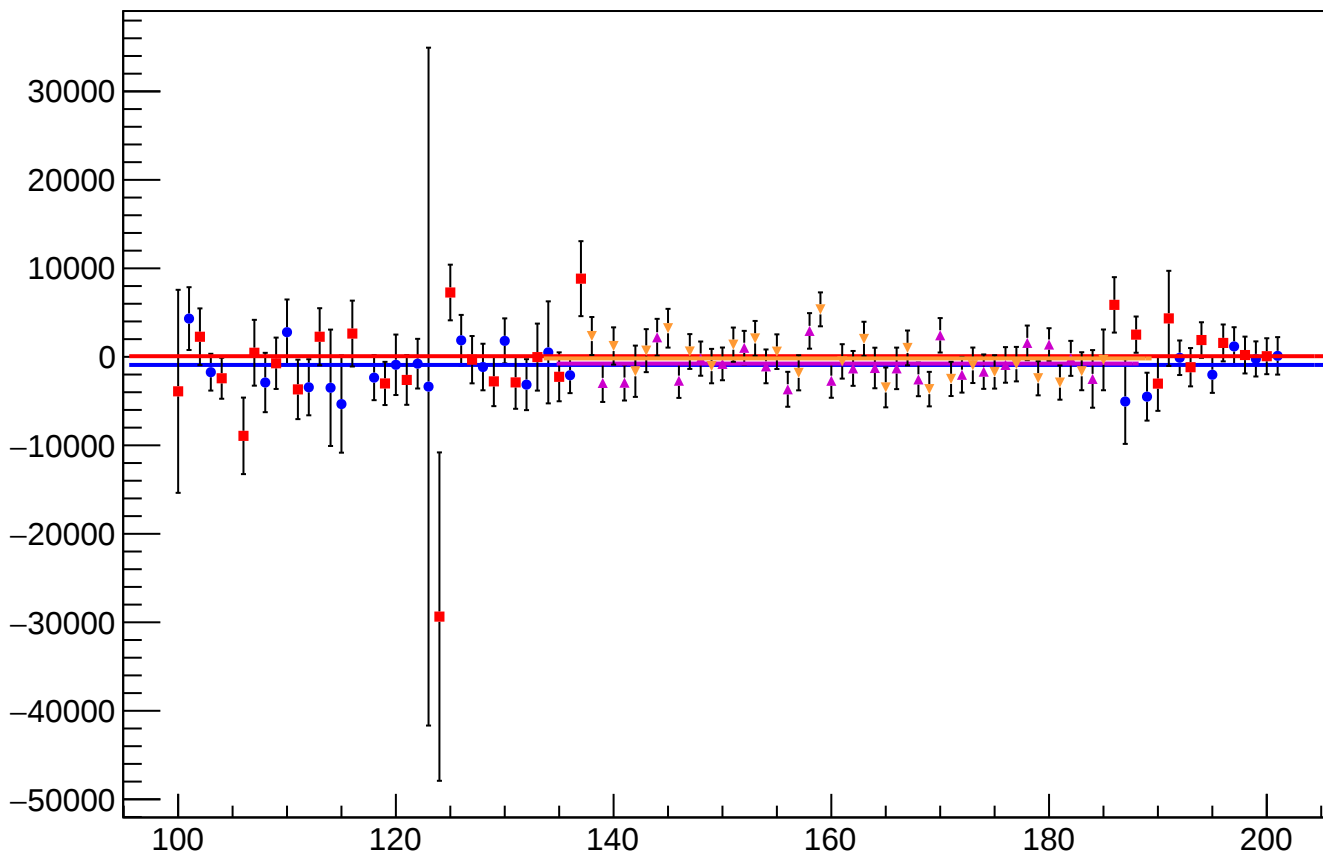
Left In: 5312.861+/-0.914

χ^2/NDF : 957400.7/22

All: 4881.952+/-0.475

χ^2/NDF : 13223416.5/59

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -915.219 ± 560.599 $\chi^2/\text{NDF}: 12.8/23$

Left Out: -179.794 ± 410.976 $\chi^2/\text{NDF}: 29.3/24$

Right Out: 72.765 ± 536.566 $\chi^2/\text{NDF}: 33.8/27$

Left In: -759.753 ± 419.905 $\chi^2/\text{NDF}: 20.3/22$

Left: -463.542 ± 293.710 $\chi^2/\text{NDF}: 50.5/47$

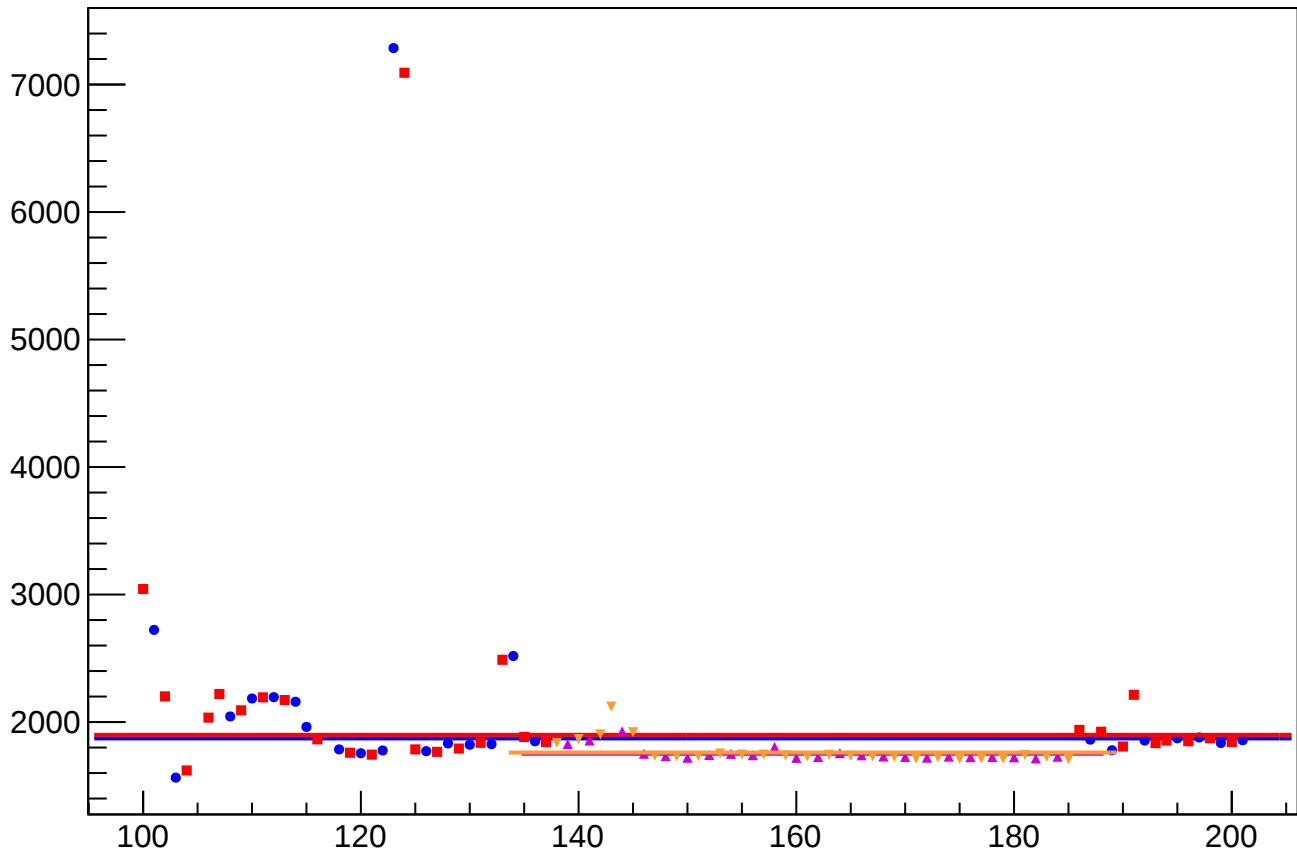
Right: -399.597 ± 387.627 $\chi^2/\text{NDF}: 48.2/51$

In: -815.628 ± 336.080 $\chi^2/\text{NDF}: 33.1/46$

Out: -86.412 ± 326.268 $\chi^2/\text{NDF}: 63.2/52$

All: -440.219 ± 234.099 $\chi^2/\text{NDF}: 98.7/99$

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1871.604 $\pm$ 0.396 χ^2 /NDF: 283325.3/23

Left Out: 1761.091 $\pm$ 0.291 χ^2 /NDF: 77468.5/24

Right Out: 1899.898 $\pm$ 0.379 χ^2 /NDF: 366870.5/27

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

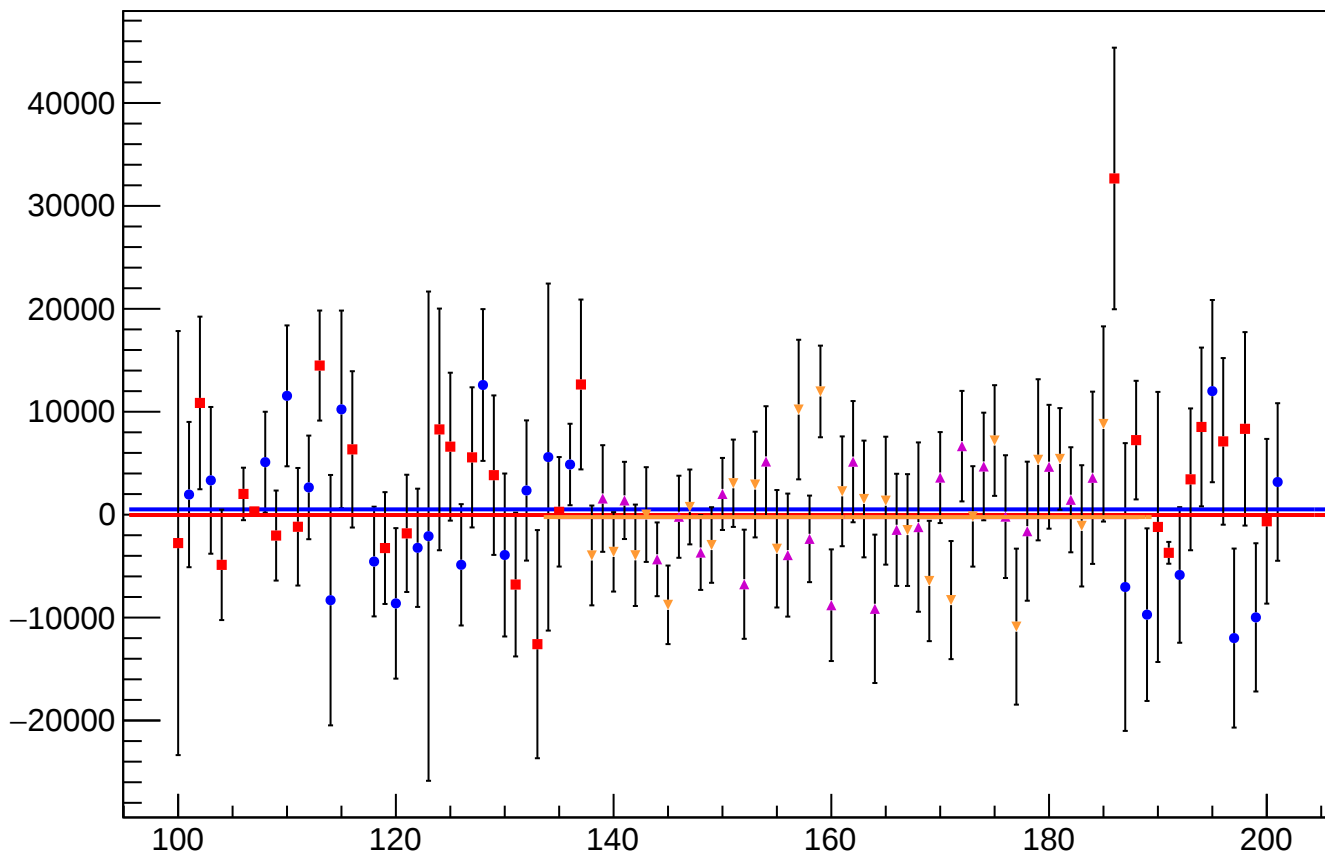
Right: 1886.382 $\pm$ 0.274 χ^2 /NDF: 652856.9/51

In: 1794.613 $\pm$ 0.238 χ^2 /NDF: 370790.7/46

Out: 1812.468 $\pm$ 0.231 χ^2 /NDF: 528784.4/52

All: 1803.807 $\pm$ 0.166 χ^2 /NDF: 902482.0/99

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 513.913 $\pm$ 1410.560 χ^2 /NDF: 22.2/23

Left Out: -235.806 $\pm$ 1005.144 χ^2 /NDF:28.9/24

Right Out: -33.919 $\pm$ 412.771 χ^2 /NDF: 42.6/27

Left In: -239.224 $\pm$ 1028.883 χ^2 /NDF:15.3/22

Left: -237.475 $\pm$ 718.990 χ^2 /NDF: 44.2/47

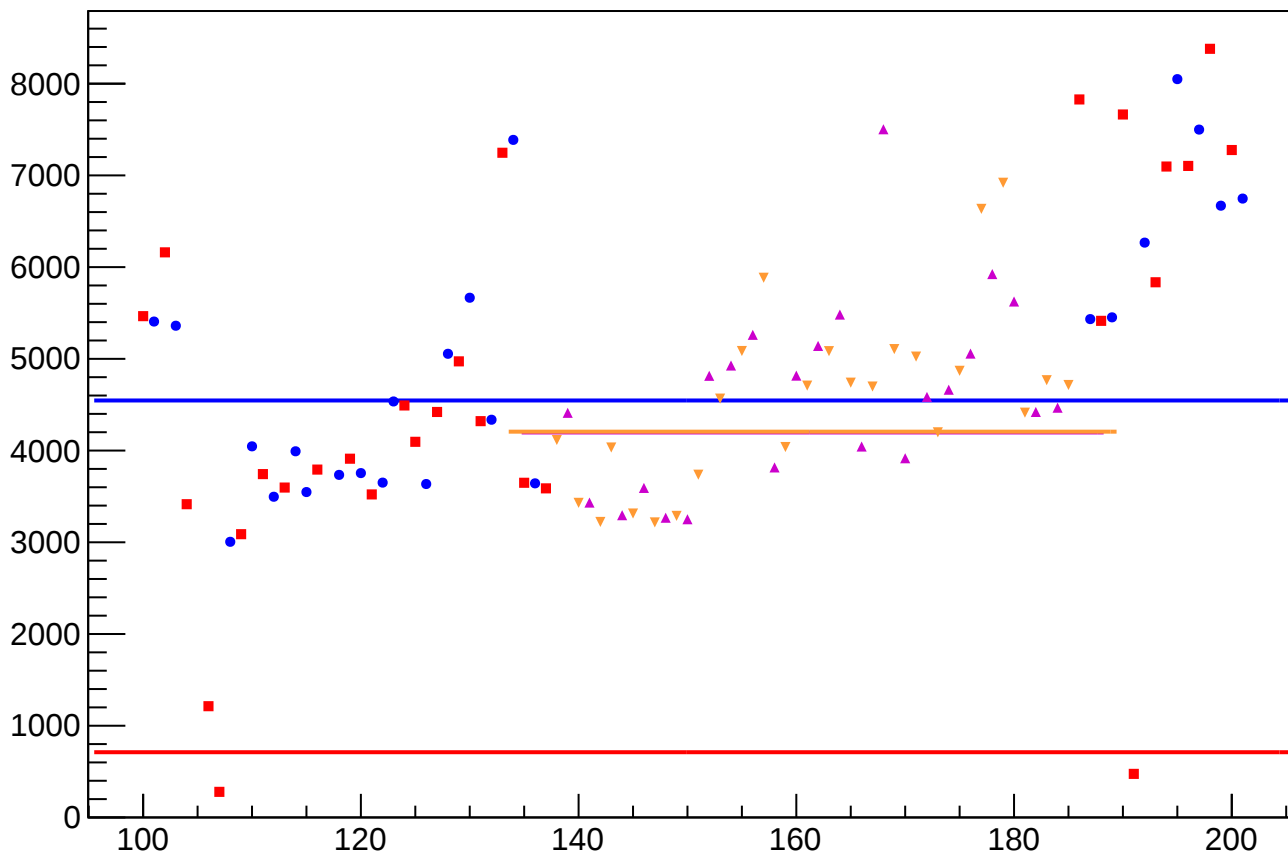
Right: 9.292 $\pm$ 396.157 χ^2 /NDF: 65.0/51

In: 22.324 $\pm$ 831.247 χ^2 /NDF:37.7/46

Out: -63.052 $\pm$ 381.829 χ^2 /NDF:71.5/52

All: -48.177 $\pm$ 346.974 χ^2 /NDF: 109.3/99

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4546.099+/-0.997

χ^2/NDF : 1806963.8/23

Left: 4201.775+/-0.508

χ^2/NDF : 2913357.2/47

Left Out: 4206.076+/-0.711

χ^2/NDF : 1442269.3/24

Right: 1013.731+/-0.280

χ^2/NDF : 34768360.6/51

Right Out: 711.248+/-0.292

χ^2/NDF : 19345027.4/27

In: 4318.409+/-0.588

χ^2/NDF : 3357814.0/46

Out: 1215.569+/-0.270

χ^2/NDF : 41476534.2/52

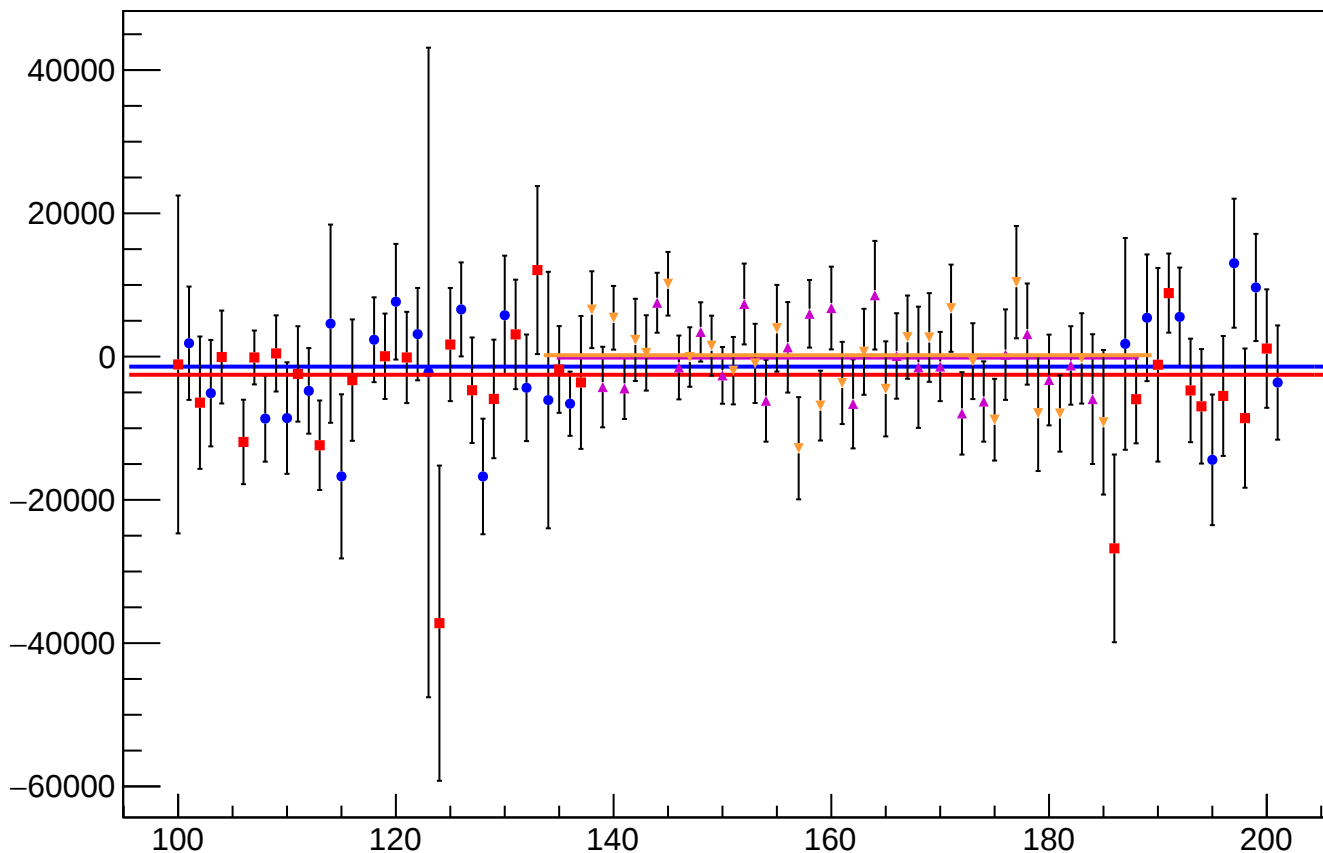
Left In: 4197.267+/-0.728

χ^2/NDF : 1471012.9/22

All: 1756.190+/-0.245

χ^2/NDF : 67845864.2/9

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1399.011 ± 1565.481 χ^2/NDF : 23.1/23

Left Out: 189.721 ± 1106.851 χ^2/NDF : 25.0/24

Right Out: -2537.643 ± 1352.853 χ^2/NDF : 20.7/27

Left In: -137.477 ± 1129.656 χ^2/NDF : 18.6/22

Left: 29.458 ± 790.601 χ^2/NDF : 43.6/47

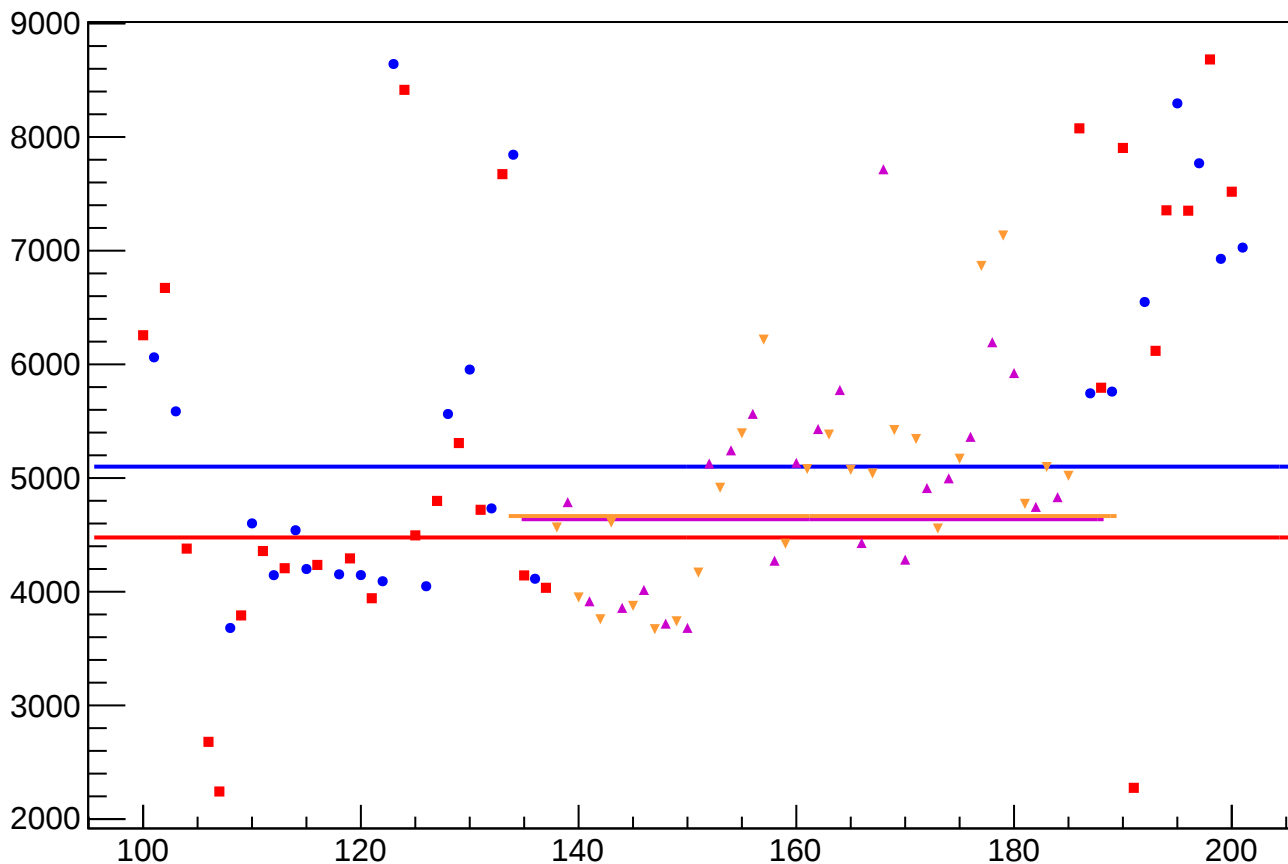
Right: -2050.849 ± 1023.596 χ^2/NDF : 44.1/51

In: -569.442 ± 916.058 χ^2/NDF : 42.1/46

Out: -903.892 ± 856.664 χ^2/NDF : 48.1/52

All: -747.860 ± 625.697 χ^2/NDF : 90.3/99

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5100.340+/-1.107

χ^2/NDF : 1353503.9/23

Left Out: 4665.620+/-0.783

χ^2/NDF : 1017235.0/24

Right Out: 4477.309+/-0.952

χ^2/NDF : 3288941.0/27

Left In: 4637.777+/-0.799

χ^2/NDF : 1065217.2/22

Left: 4651.983+/-0.559

χ^2/NDF : 2083072.1/47

Right: 4742.227+/-0.722

χ^2/NDF : 4824525.7/51

In: 4796.165+/-0.648

χ^2/NDF : 2533544.0/46

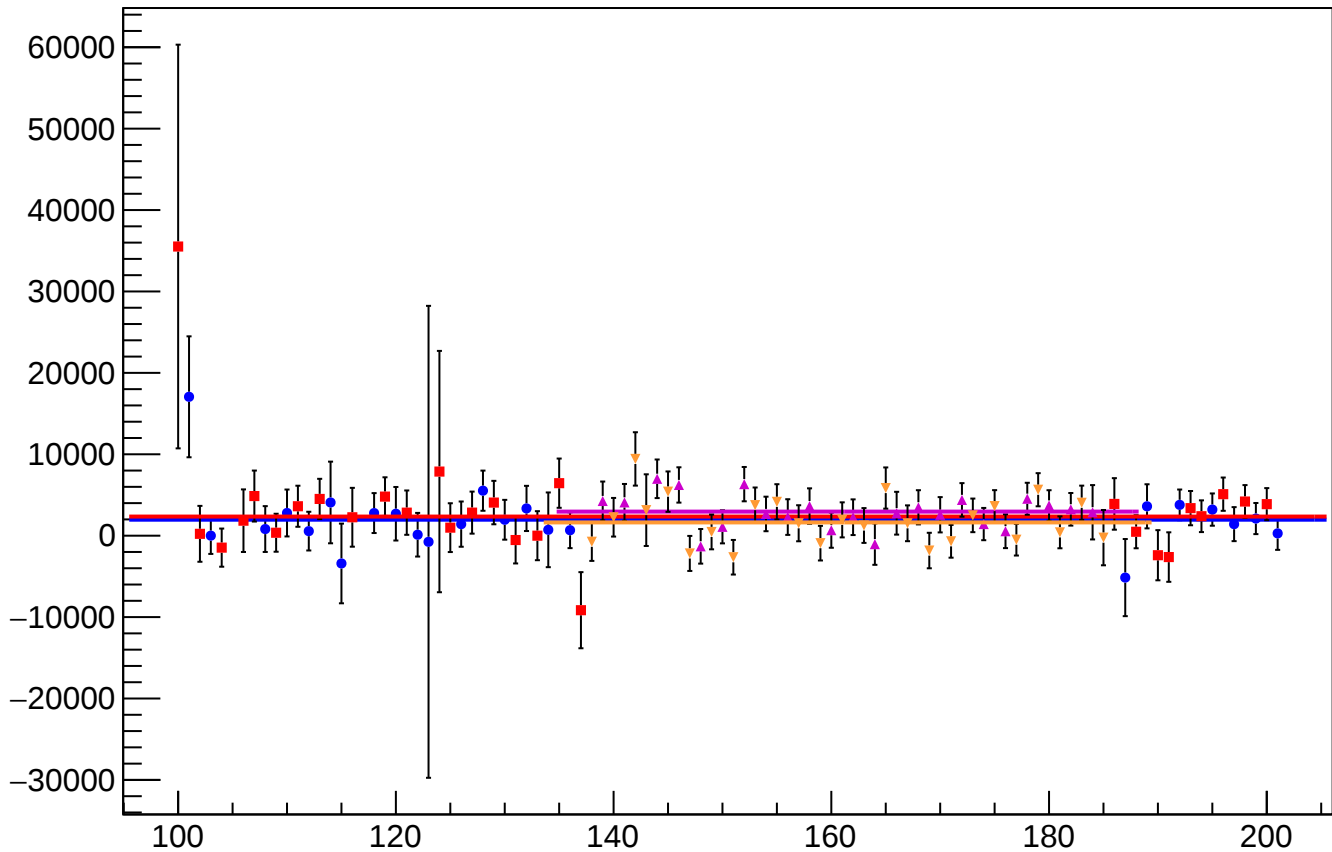
Out: 4589.682+/-0.605

χ^2/NDF : 4329520.3/52

All: 4685.818+/-0.442

χ^2/NDF : 6917367.9/99

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1964.809+/-539.987 χ^2/NDF : 15.0/23

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2348.794+/-505.556 χ^2/NDF : 28.3/27

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

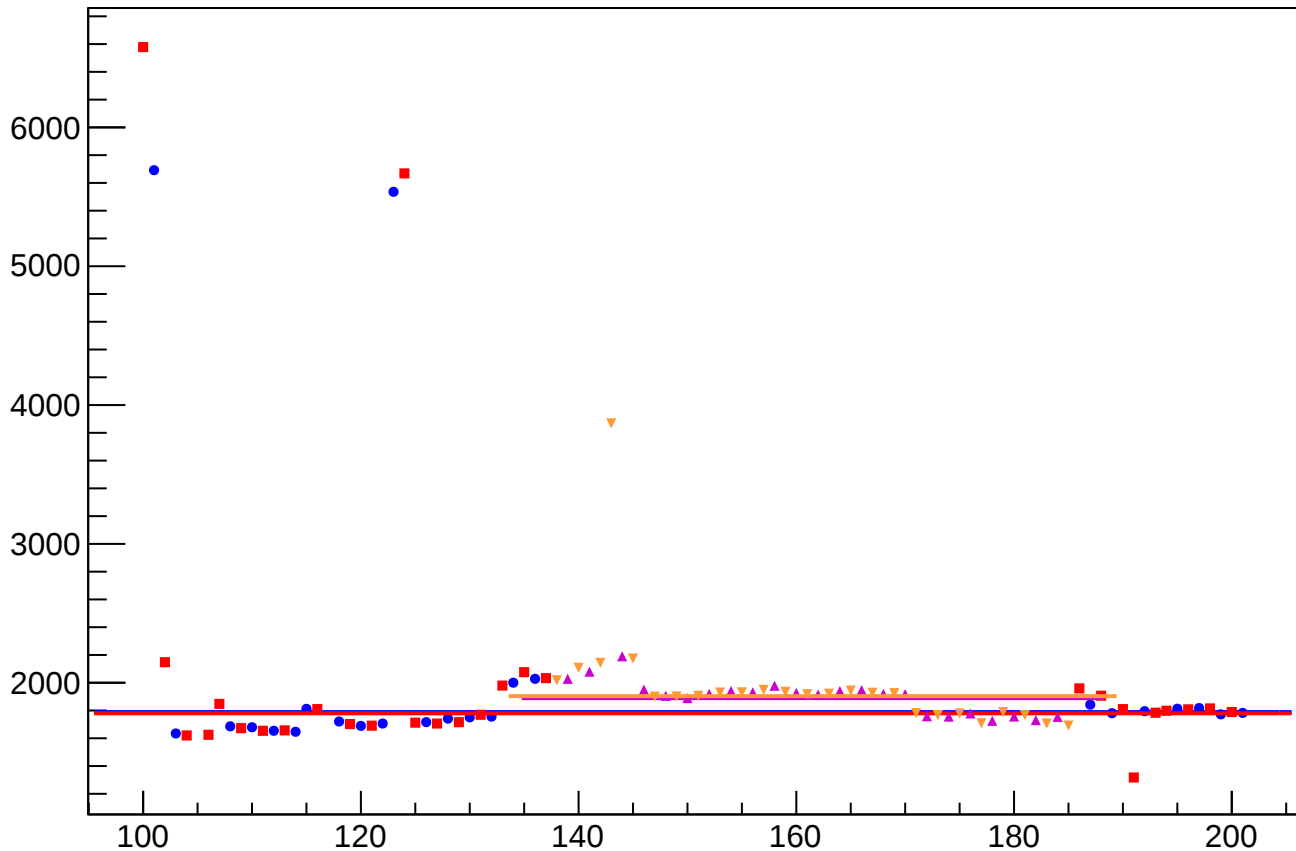
Right: 2169.433+/-369.054 χ^2/NDF : 43.6/51

In: 2547.379+/-347.360 χ^2/NDF : 37.4/46

Out: 1945.447+/-334.901 χ^2/NDF : 64.8/52

All: 2235.425+/-241.095 χ^2/NDF : 103.8/99

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1788.579+/-0.382 χ^2/NDF : 645870.6/23

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1779.625+/-0.356 χ^2/NDF : 368597.6/27

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

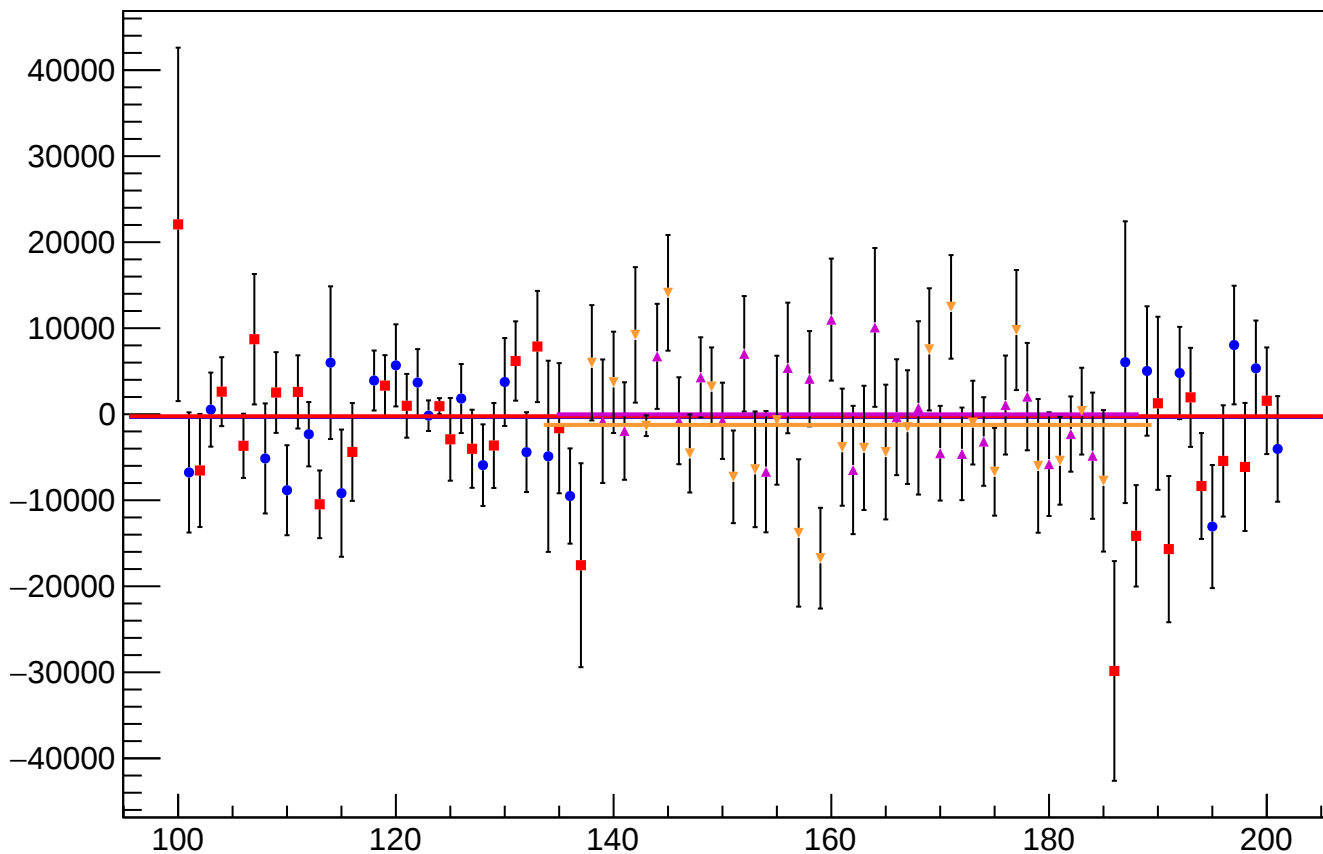
Right: 1783.791+/-0.260 χ^2/NDF : 1014762.3/51

In: 1847.403+/-0.246 χ^2/NDF : 812775.8/46

Out: 1848.977+/-0.236 χ^2/NDF : 977970.6/52

All: 1848.220+/-0.170 χ^2/NDF : 1790767.7/99

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -314.664 ± 939.025 χ^2/NDF : 24.1/23

Left Out: -1239.833 ± 865.201 χ^2/NDF : 33.9/24

Right Out: -237.728 ± 693.202 χ^2/NDF : 40.3/27

Left In: -15.863 ± 1243.317 χ^2/NDF : 13.2/22

Left: -840.501 ± 710.172 χ^2/NDF : 47.8/47

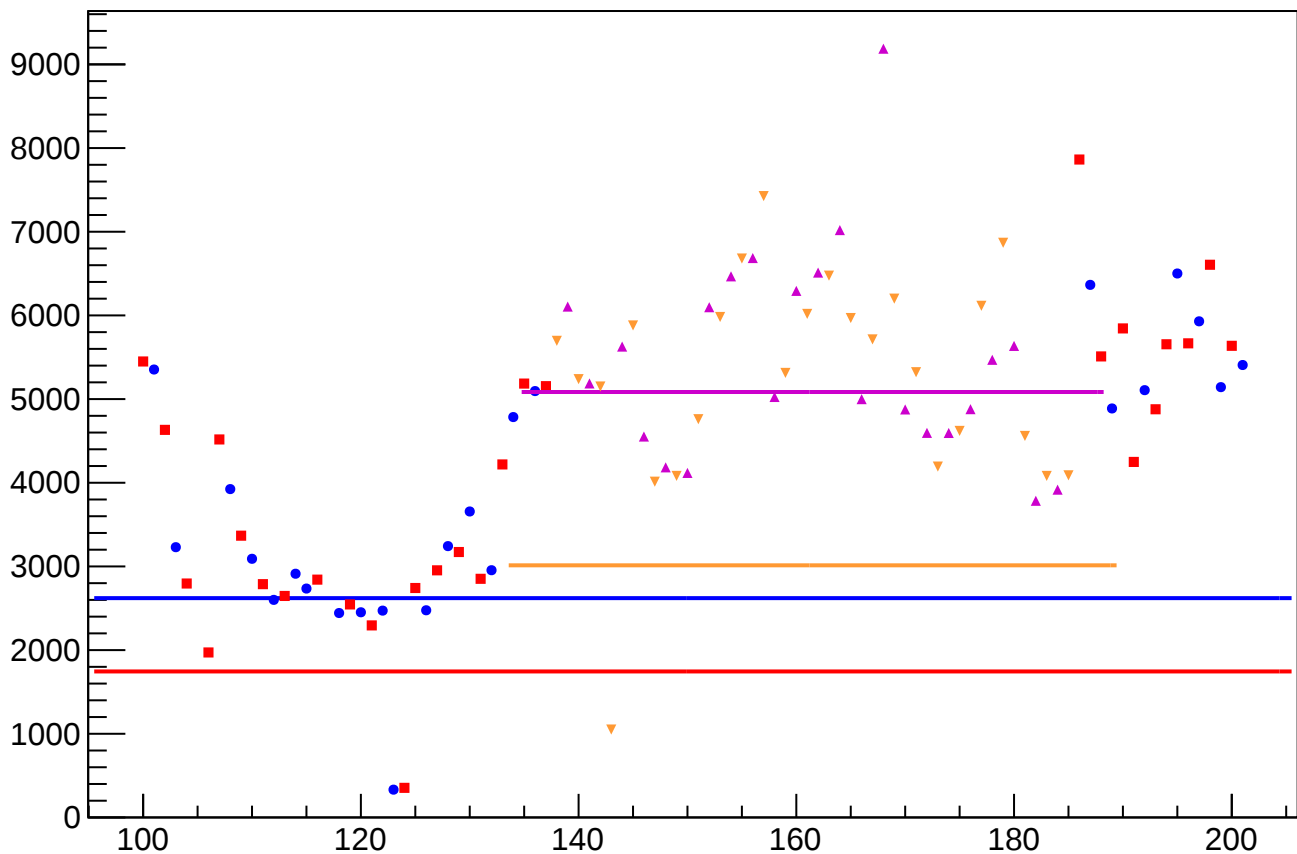
Right: -264.866 ± 557.700 χ^2/NDF : 64.4/51

In: -206.132 ± 749.325 χ^2/NDF : 37.4/46

Out: -629.510 ± 540.982 χ^2/NDF : 75.0/52

All: -484.445 ± 438.618 χ^2/NDF : 112.6/99

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2621.182 $\pm$ 0.664 χ^2 /NDF: 6965172.0/23

Left Out: 3013.268 $\pm$ 0.612 χ^2 /NDF:12270753.9/24

Right Out: 1744.926 $\pm$ 0.490 χ^2 /NDF: 12912646.2/27

Left In: 5084.645 $\pm$ 0.879 χ^2 /NDF:1303587.7/22

Left: 3689.075 $\pm$ 0.502 χ^2 /NDF: 17314385.8/47

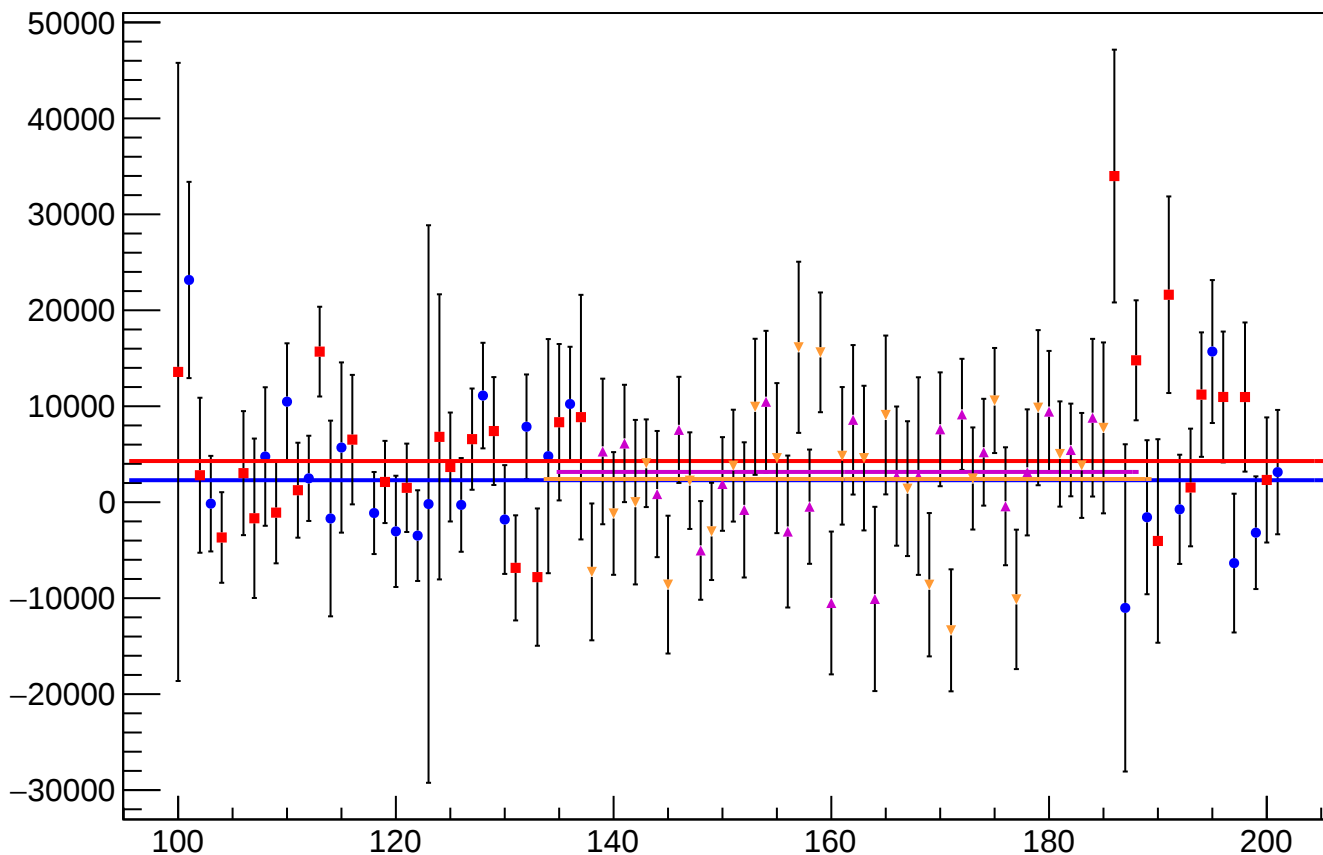
Right: 2054.011 $\pm$ 0.394 χ^2 /NDF: 21005069.6/51

In: 3515.974 $\pm$ 0.530 χ^2 /NDF:13268458.4/46

Out: 2240.796 $\pm$ 0.383 χ^2 /NDF:27801072.6/52

All: 2677.717 $\pm$ 0.310 χ^2 /NDF: 44877017.3/95

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2291.705+/-1276.172 χ^2/NDF : 22.5/23

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 4289.587+/-1208.580 χ^2/NDF : 34.0/27

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

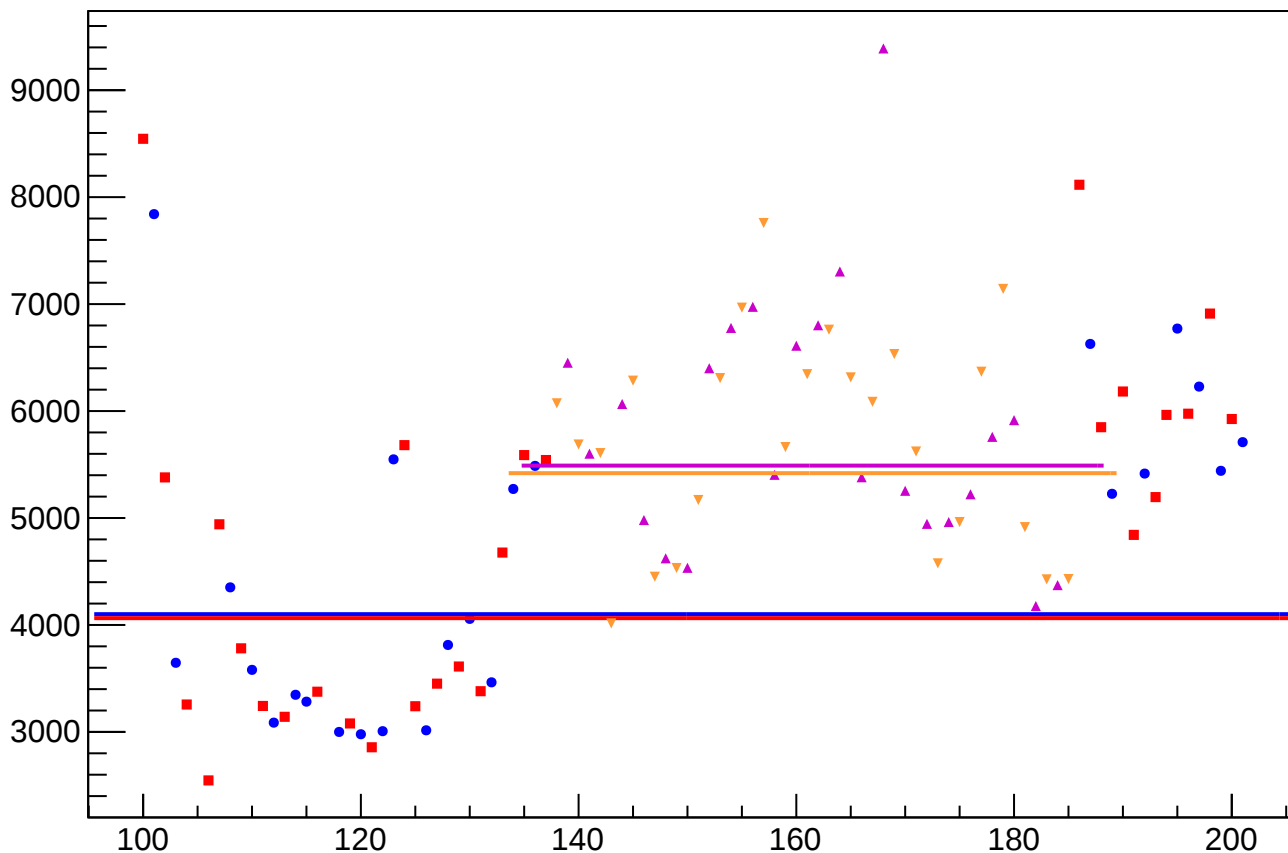
Right: 3344.954+/-877.518 χ^2/NDF : 57.8/51

In: 2702.407+/-923.270 χ^2/NDF : 38.2/46

Out: 3411.802+/-880.848 χ^2/NDF : 65.0/52

All: 3073.776+/-637.323 χ^2/NDF : 103.6/99

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4100.897 $\pm$ 0.902

χ^2 /NDF: 1859461.7/23

Left Out: 5419.305 $\pm$ 0.910

χ^2 /NDF: 1109972.1/24

Right Out: 4063.565 $\pm$ 0.845

χ^2 /NDF: 2275084.8/27

Left In: 5489.885 $\pm$ 0.946

χ^2 /NDF: 1064353.3/22

Left: 5453.227 $\pm$ 0.656

χ^2 /NDF: 2177218.7/47

Right: 4081.016 $\pm$ 0.617

χ^2 /NDF: 4135457.9/51

In: 4762.878 $\pm$ 0.653

χ^2 /NDF: 4052984.3/46

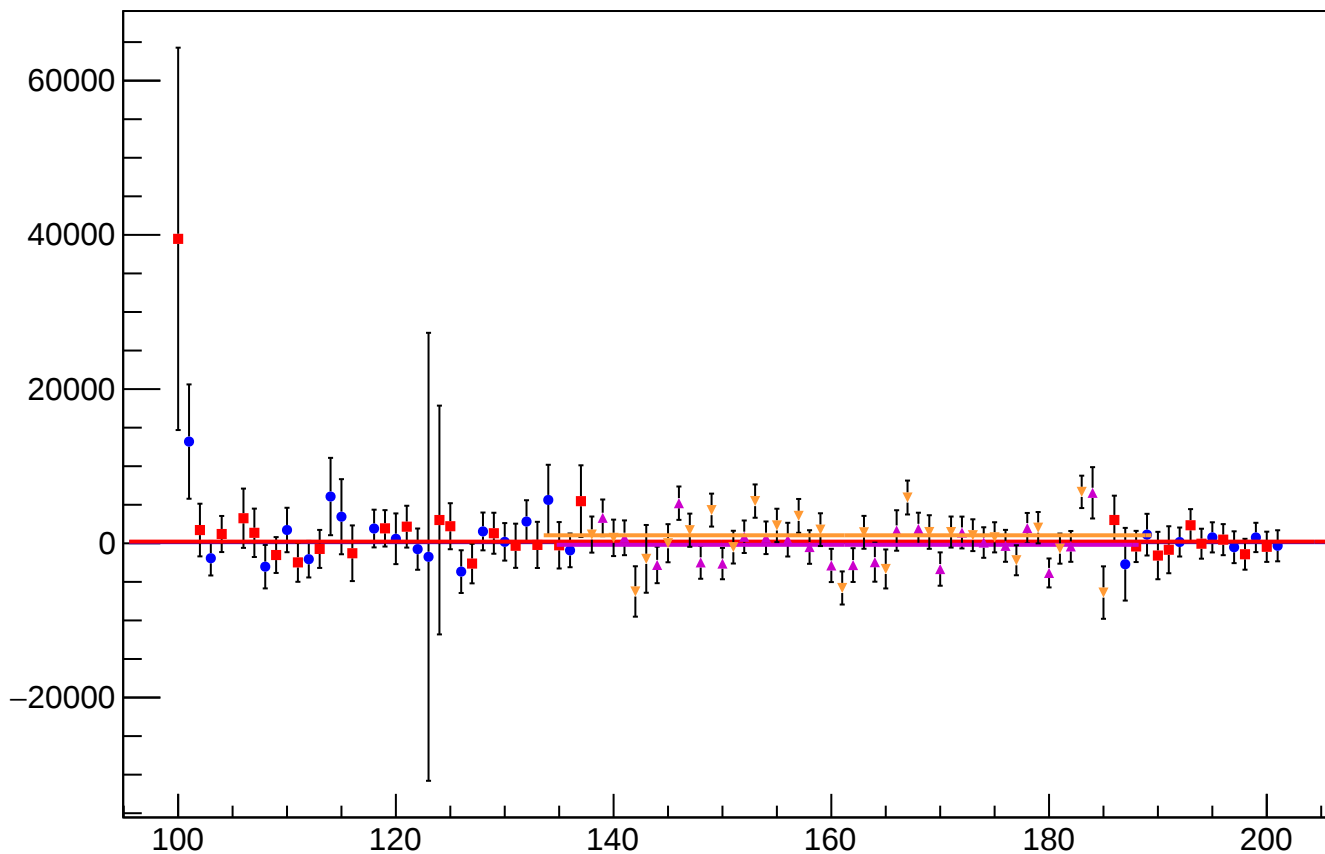
Out: 4691.871 $\pm$ 0.619

χ^2 /NDF: 4576828.0/52

All: 4725.502 $\pm$ 0.449

χ^2 /NDF: 8636039.1/99

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 151.539+/-537.395 χ^2/NDF : 14.6/23

Left Out: 1041.262+/-446.249 χ^2/NDF :48.6/24

Right Out: 220.681+/-503.341 χ^2/NDF : 13.1/27

Left In: -191.966+/-453.055 χ^2/NDF :30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

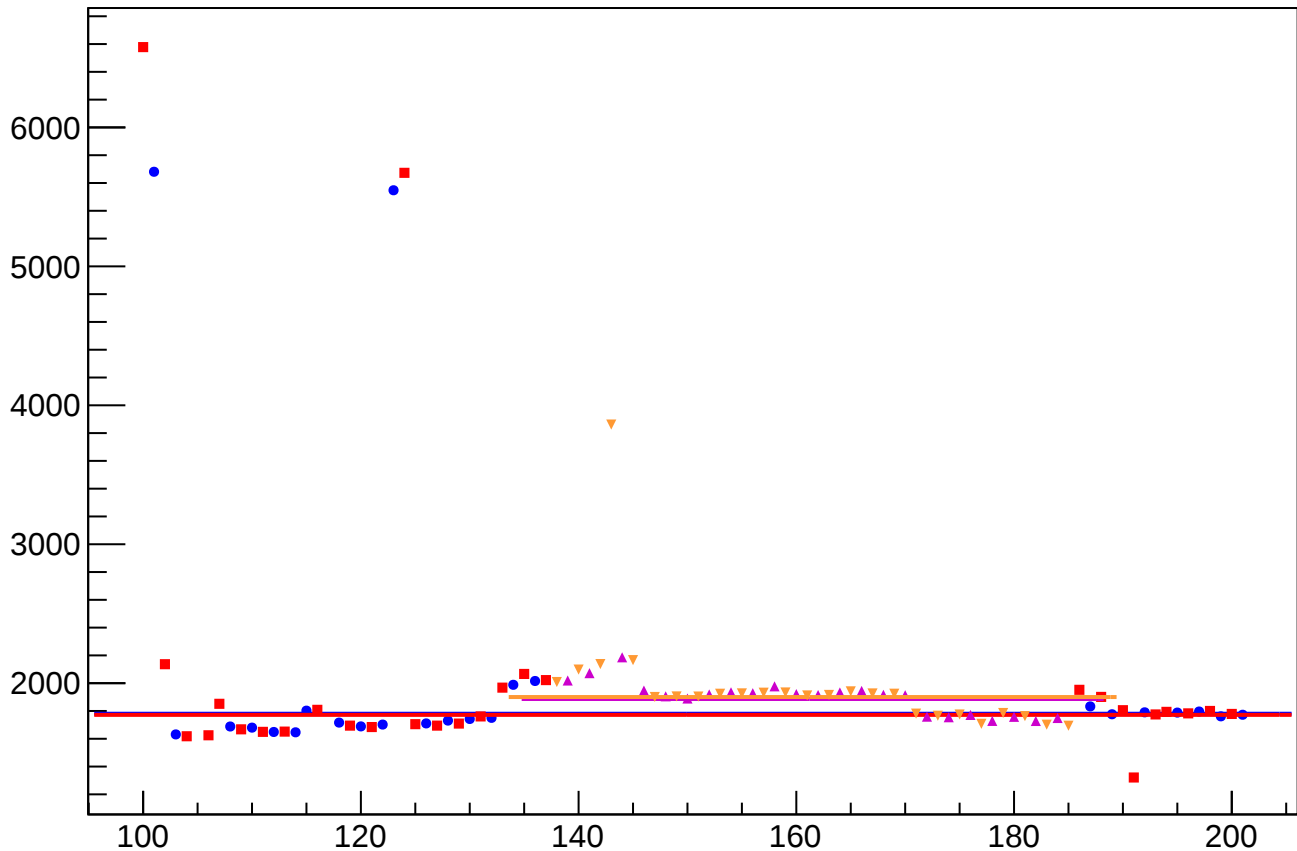
Right: 188.370+/-367.365 χ^2/NDF : 27.7/51

In: -49.253+/-346.384 χ^2/NDF :44.8/46

Out: 680.129+/-333.914 χ^2/NDF :63.2/52

All: 328.803+/-240.401 χ^2/NDF : 110.3/99

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1780.102+/-0.380 χ^2/NDF : 643684.1/23

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1772.067+/-0.355 χ^2/NDF : 365254.1/27

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

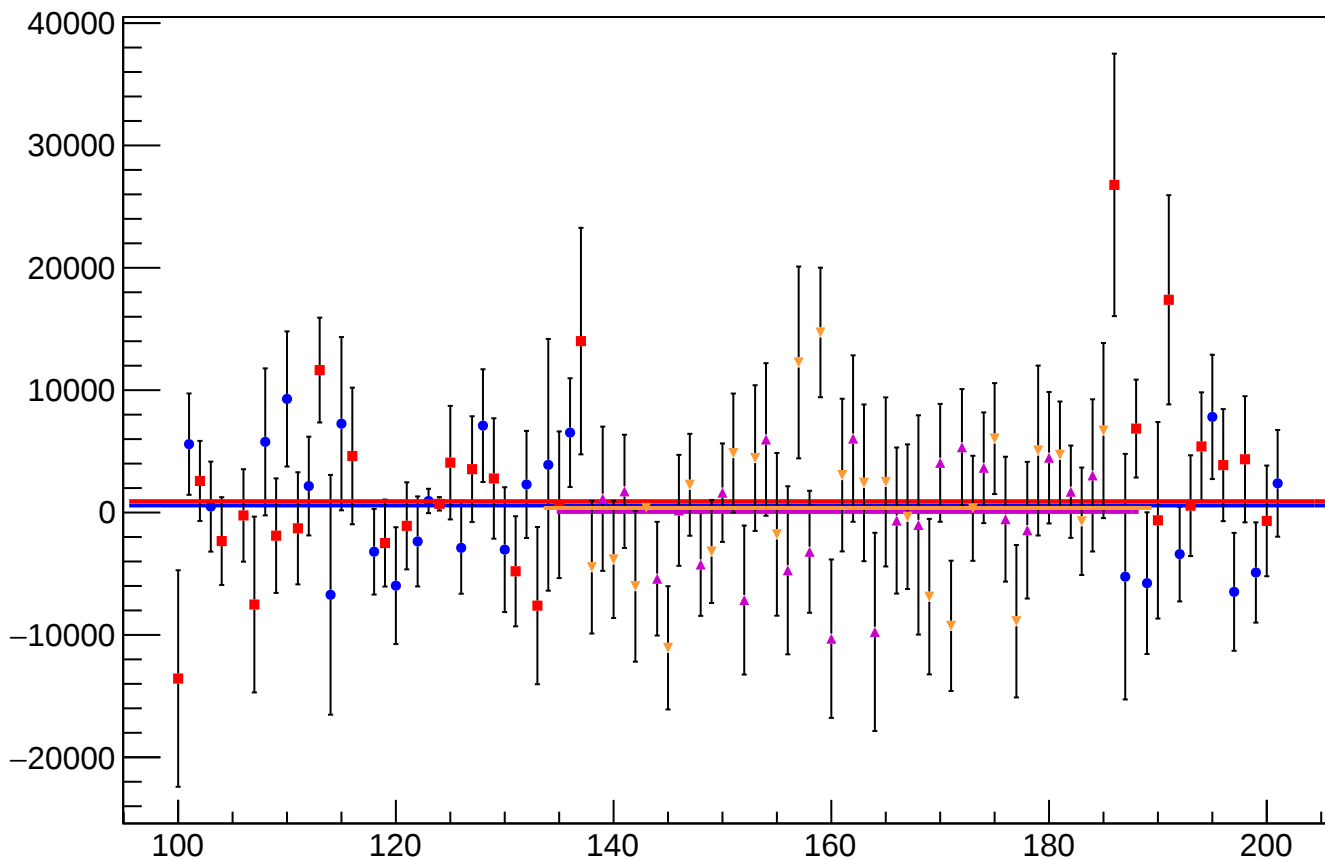
Right: 1775.807+/-0.259 χ^2/NDF : 1009177.1/51

In: 1842.224+/-0.245 χ^2/NDF : 812927.0/46

Out: 1843.627+/-0.236 χ^2/NDF : 976124.9/52

All: 1842.952+/-0.170 χ^2/NDF : 1789068.8/99

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 579.805+/-696.261 χ^2/NDF : 24.3/23

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 928.478+/-469.364 χ^2/NDF : 34.1/27

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

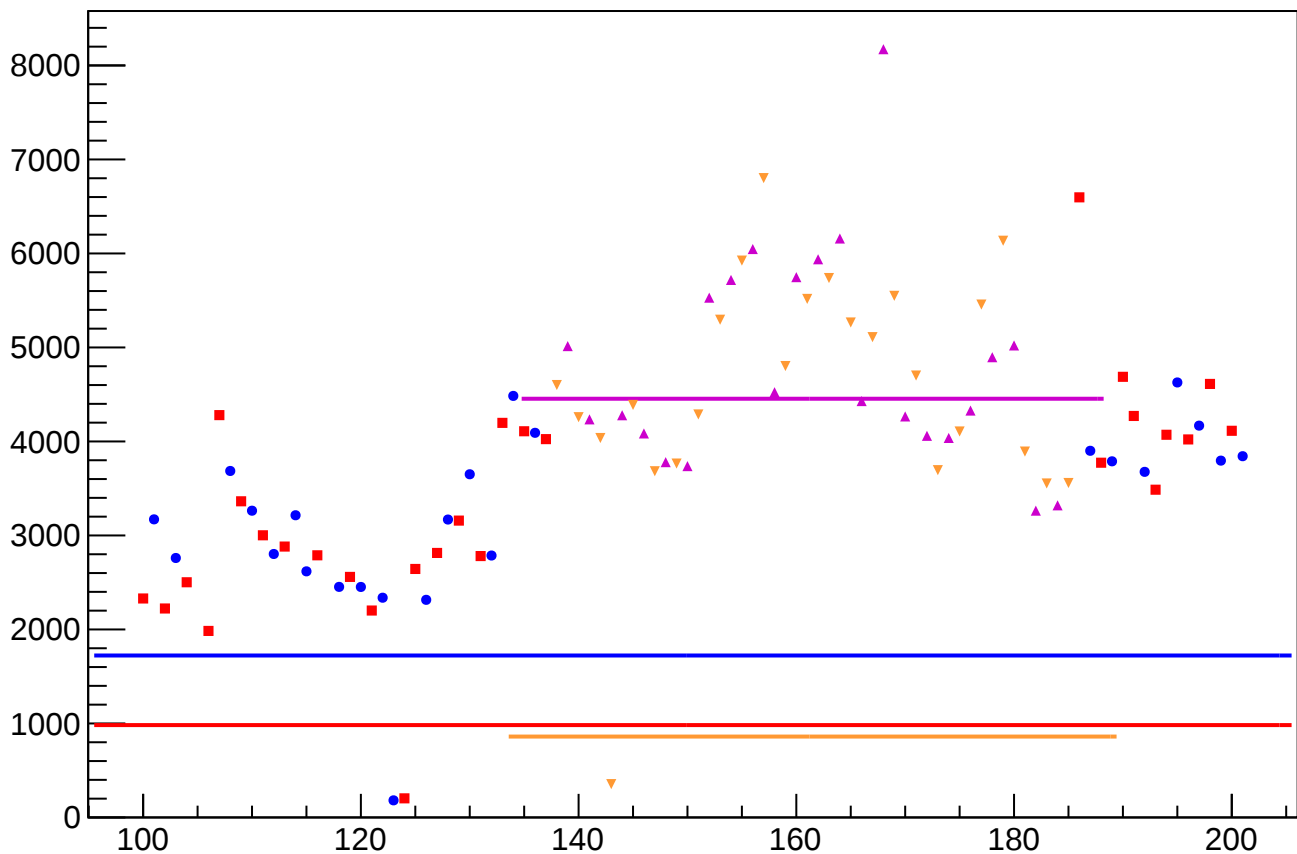
Right: 819.536+/-389.190 χ^2/NDF : 58.5/51

In: 427.150+/-586.750 χ^2/NDF :39.0/46

Out: 594.548+/-296.310 χ^2/NDF :65.7/52

All: 560.532+/-264.497 χ^2/NDF : 104.8/99

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1722.921 $\pm$ 0.492

χ^2/NDF : 10353723.4/23

Left: 1253.867 $\pm$ 0.255 χ^2/NDF : 47056303.3/47

Right: 1213.922 $\pm$ 0.275 χ^2/NDF : 28722066.8/51

Left Out: 860.545 $\pm$ 0.270

χ^2/NDF : 26340106.5/24

In: 2514.585 $\pm$ 0.415 χ^2/NDF : 20624722.8/46

Right Out: 982.614 $\pm$ 0.332

χ^2/NDF : 16813759.4/27

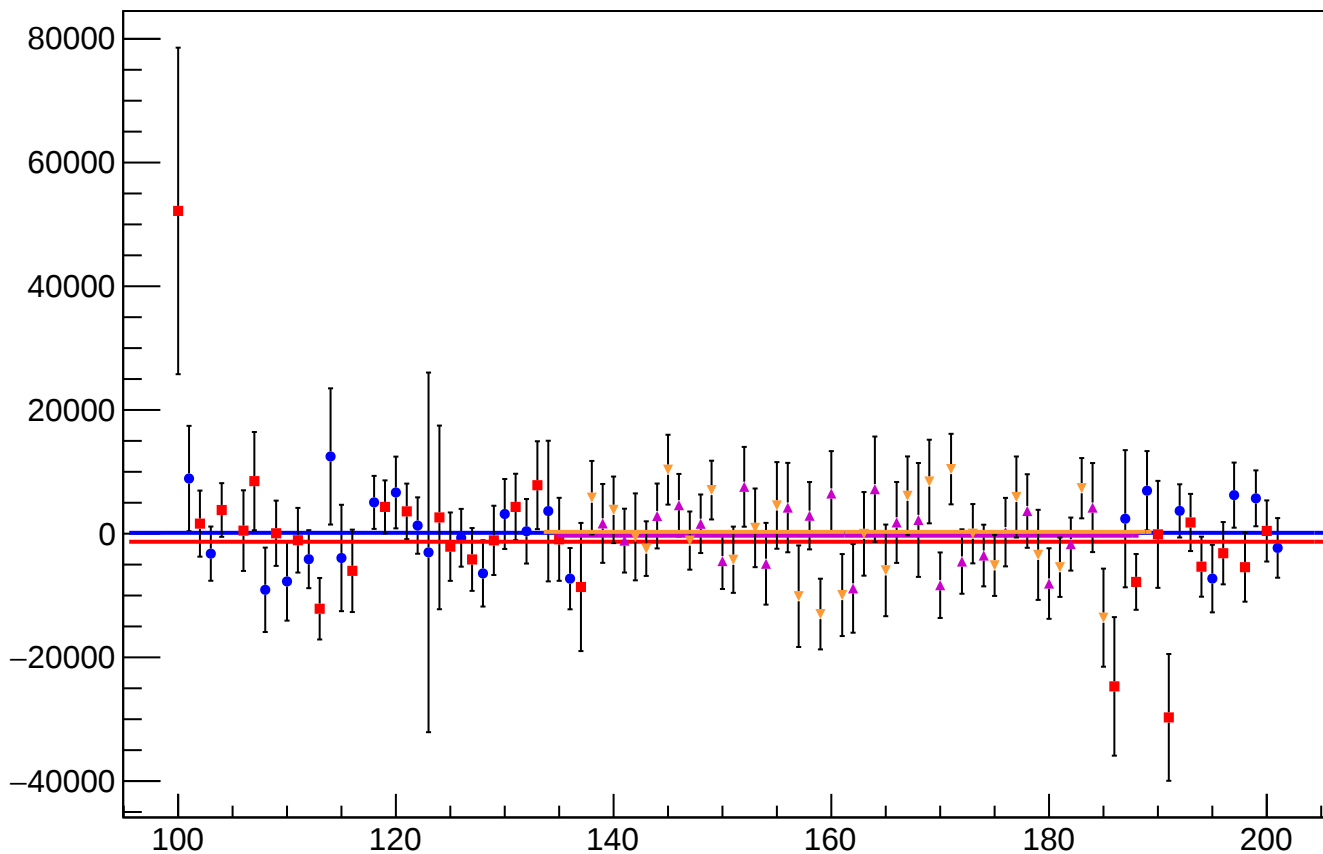
Out: 909.195 $\pm$ 0.210 χ^2/NDF : 43235228.2/52

Left In: 4454.402 $\pm$ 0.771

χ^2/NDF : 1349758.1/22

All: 1235.418 $\pm$ 0.187 χ^2/NDF : 75789707.6/9

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 138.077 ± 1148.387 χ^2/NDF : 20.9/23

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -1306.317 ± 1088.270 χ^2/NDF : 35.4/27

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

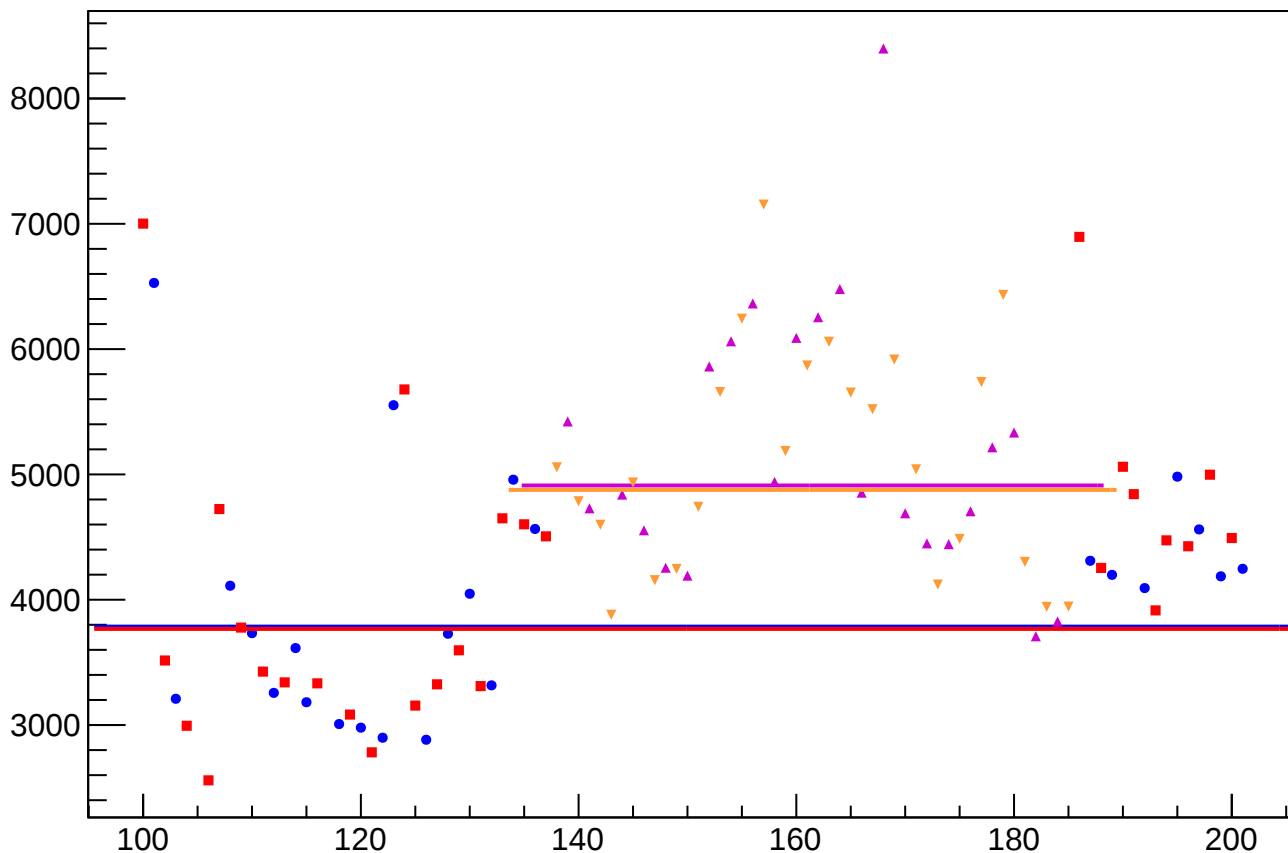
Right: -622.915 ± 789.921 χ^2/NDF : 57.2/51

In: -87.650 ± 828.357 χ^2/NDF : 35.7/46

Out: -556.591 ± 792.199 χ^2/NDF : 68.8/52

All: -332.579 ± 572.525 χ^2/NDF : 104.7/99

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3785.301+/-0.812 χ^2/NDF : 832547.4/23

Left Out: 4876.564+/-0.817 χ^2/NDF : 972528.1/24

Right Out: 3767.102+/-0.763 χ^2/NDF : 1044749.5/27

Left In: 4911.546+/-0.846 χ^2/NDF : 1043164.6/22

Left: 4893.451+/-0.588 χ^2/NDF : 2016577.8/47

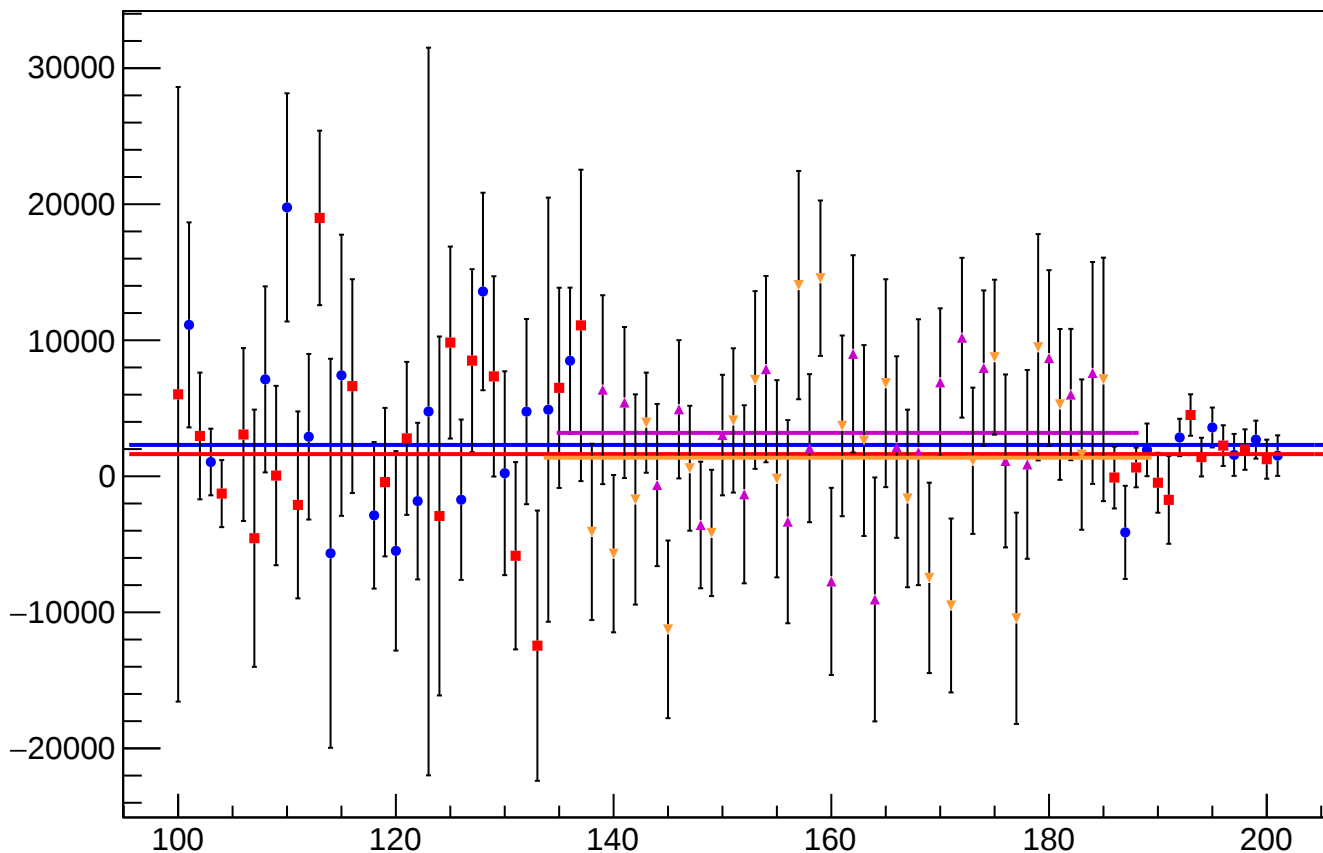
Right: 3775.634+/-0.556 χ^2/NDF : 1877563.7/51

In: 4325.553+/-0.586 χ^2/NDF : 2798464.4/46

Out: 4283.818+/-0.558 χ^2/NDF : 3002494.4/52

All: 4303.658+/-0.404 χ^2/NDF : 5803622.3/99

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2305.390+/-558.698 χ^2/NDF : 19.1/23

Left Out: 1365.082+/-1206.268 χ^2/NDF :28.0/24

Right Out: 1629.597+/-513.090 χ^2/NDF : 24.6/27

Left In: 3191.160+/-1270.021 χ^2/NDF :14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

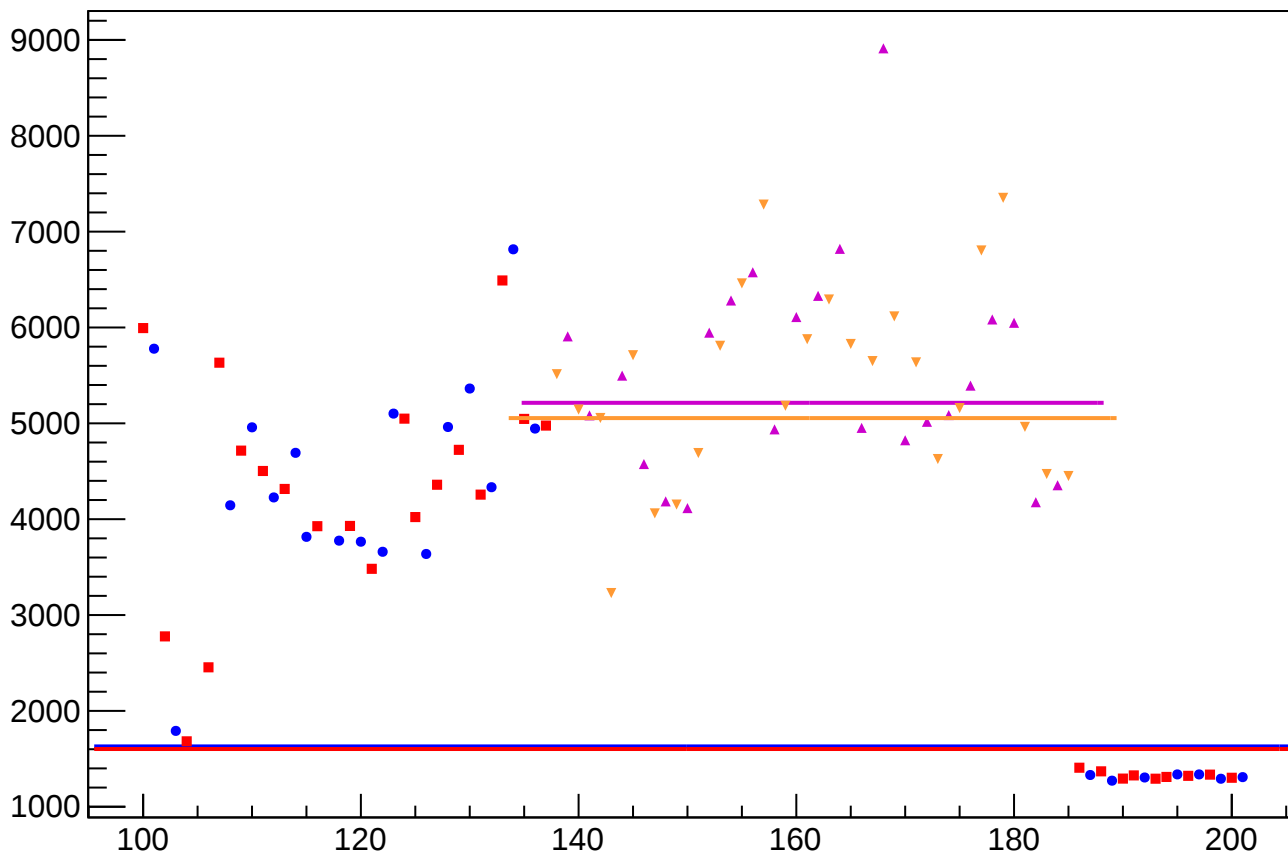
Right: 1938.788+/-377.906 χ^2/NDF : 44.5/51

In: 2449.013+/-511.401 χ^2/NDF :33.5/46

Out: 1589.071+/-472.152 χ^2/NDF :52.6/52

All: 1984.780+/-346.909 χ^2/NDF : 87.6/99

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1629.348 $\pm$ 0.395

χ^2 /NDF: 5519785.1/23

Left: 5130.314 $\pm$ 0.618

χ^2 /NDF: 2506291.2/47

Left Out: 5054.711 $\pm$ 0.853

χ^2 /NDF: 1437224.7/24

Right: 1614.660 $\pm$ 0.267

χ^2 /NDF: 11032520.1/51

Right Out: 1602.304 $\pm$ 0.362

χ^2 /NDF: 5510189.9/27

In: 2210.594 $\pm$ 0.362

χ^2 /NDF: 19922890.6/46

Out: 2130.092 $\pm$ 0.334

χ^2 /NDF: 20825640.3/52

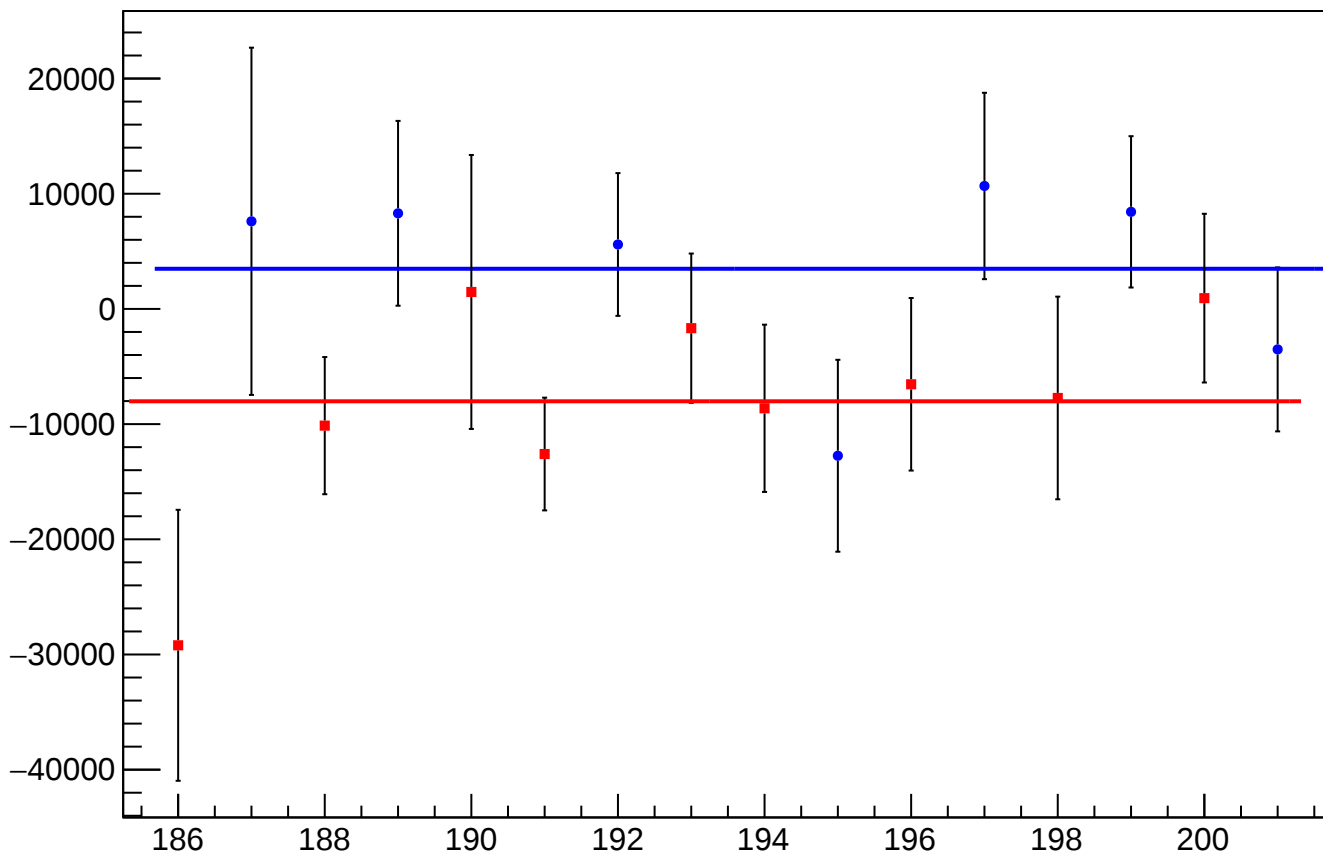
Left In: 5214.120 $\pm$ 0.898

χ^2 /NDF: 1052501.5/22

All: 2167.093 $\pm$ 0.245

χ^2 /NDF: 40775311.6/9

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 3486.469+/-2903.939 χ^2/NDF : 6.7/6

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -8018.276+/-2380.622 χ^2/NDF : 7.4/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

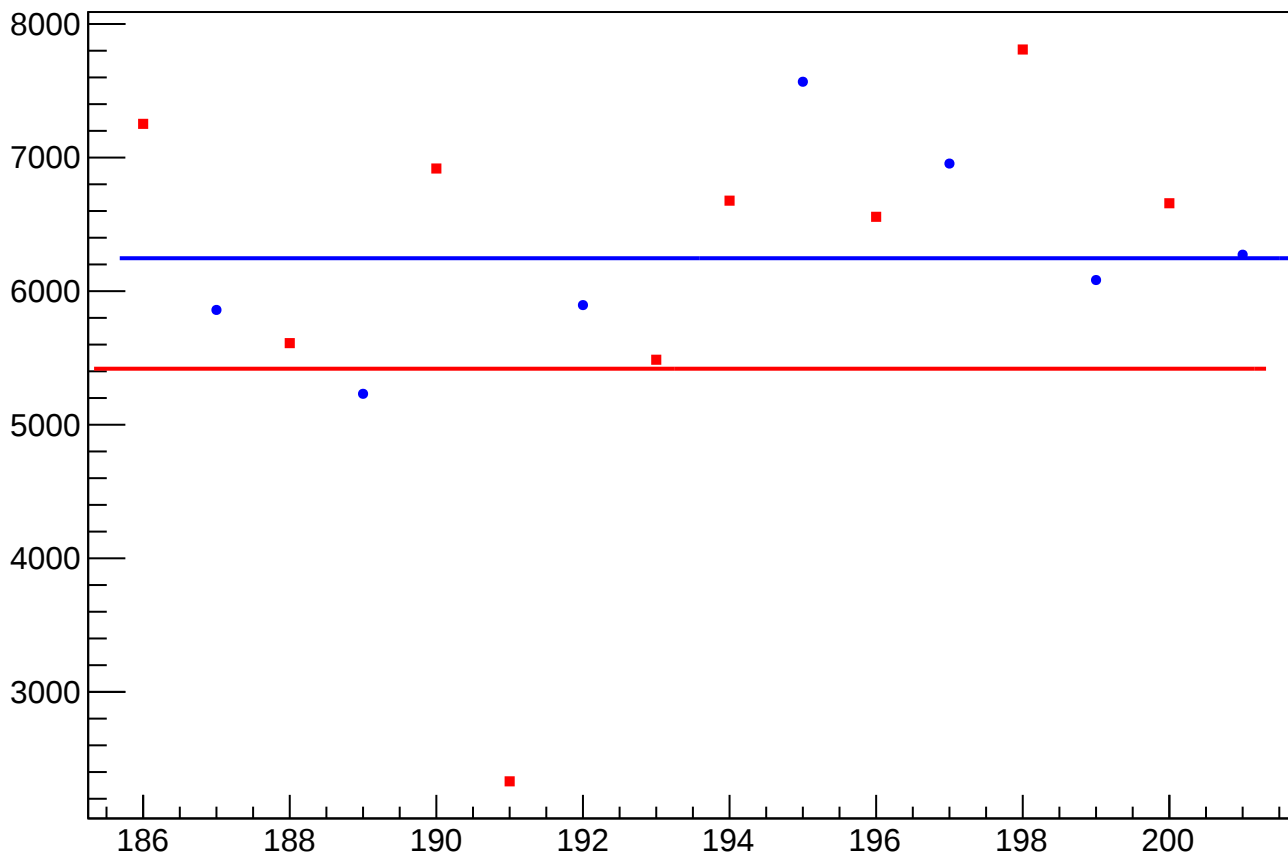
Right: -3394.126+/-1841.047 χ^2/NDF : 23.4/15

In: 3486.469+/-2903.939 χ^2/NDF : 6.7/6

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -3394.126+/-1841.047 χ^2/NDF : 23.4/15

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 6246.534+/-2.053 χ^2/NDF : 106663.7/6

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5419.413+/-1.683 χ^2/NDF : 1190402.7/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

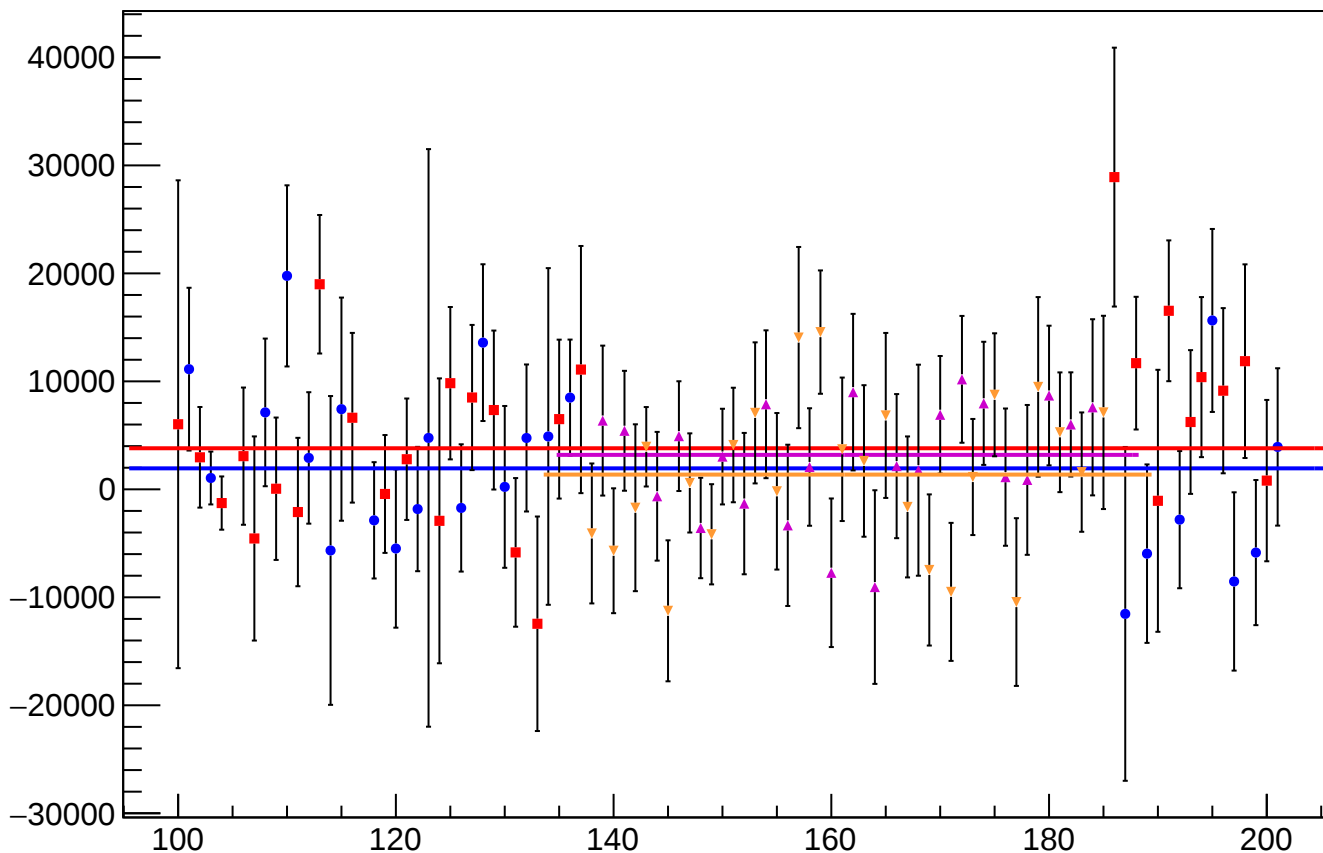
Right: 5751.861+/-1.302 χ^2/NDF : 1394104.4/15

In: 6246.534+/-2.053 χ^2/NDF : 106663.7/6

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5751.861+/-1.302 χ^2/NDF : 1394104.4/15

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1942.257+/-1307.523 χ^2/NDF : 22.1/23

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3803.068+/-1217.977 χ^2/NDF : 31.8/27

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

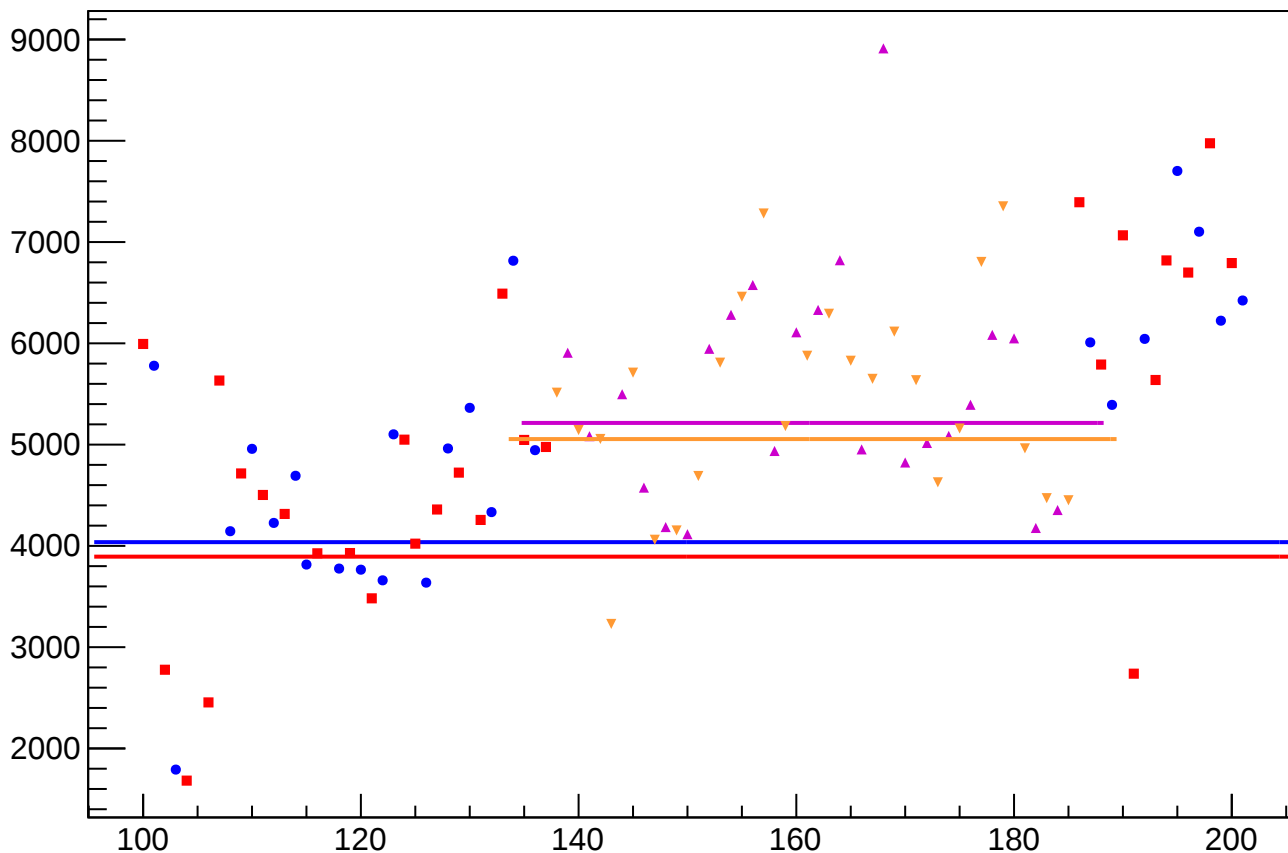
Right: 2938.558+/-891.217 χ^2/NDF : 55.0/51

In: 2584.875+/-911.010 χ^2/NDF : 36.6/46

Out: 2572.300+/-857.070 χ^2/NDF : 61.8/52

All: 2578.204+/-624.239 χ^2/NDF : 98.4/99

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4037.013+/-0.925

χ^2/NDF : 3430476.5/23

Left Out: 5054.711+/-0.853

χ^2/NDF :1437224.7/24

Right Out: 3893.859+/-0.855

χ^2/NDF : 4271850.4/27

Left In: 5214.120+/-0.898

χ^2/NDF :1052501.5/22

Left: 5130.314+/-0.618

χ^2/NDF : 2506291.2/47

Right: 3959.859+/-0.628

χ^2/NDF : 7715248.2/51

In: 4642.677+/-0.644

χ^2/NDF :5317036.9/46

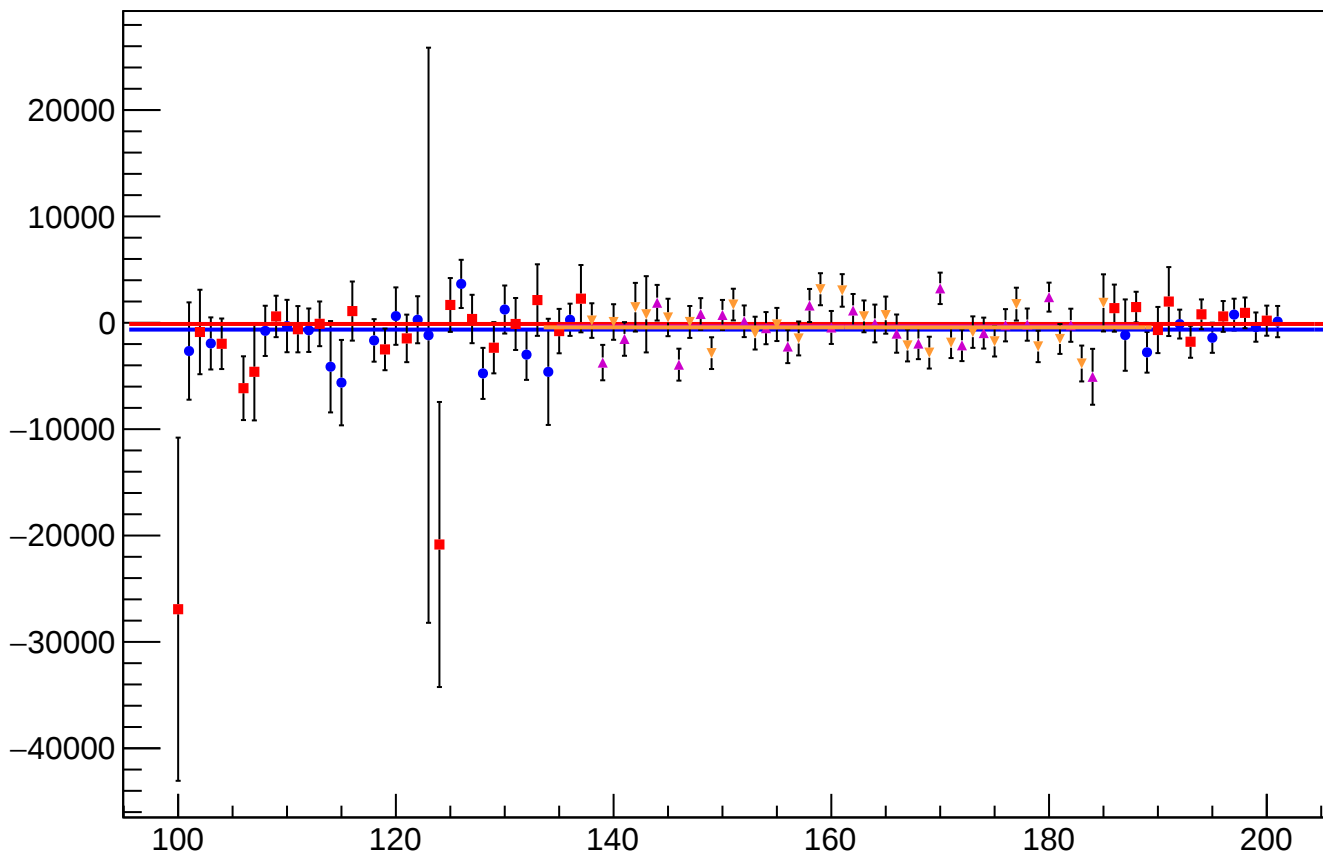
Out: 4475.743+/-0.604

χ^2/NDF :6632867.2/52

All: 4553.828+/-0.441

χ^2/NDF : 11985647.2/9

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -639.539+/-423.735 χ^2/NDF : 15.5/23

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -110.155+/-401.270 χ^2/NDF : 20.2/27

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

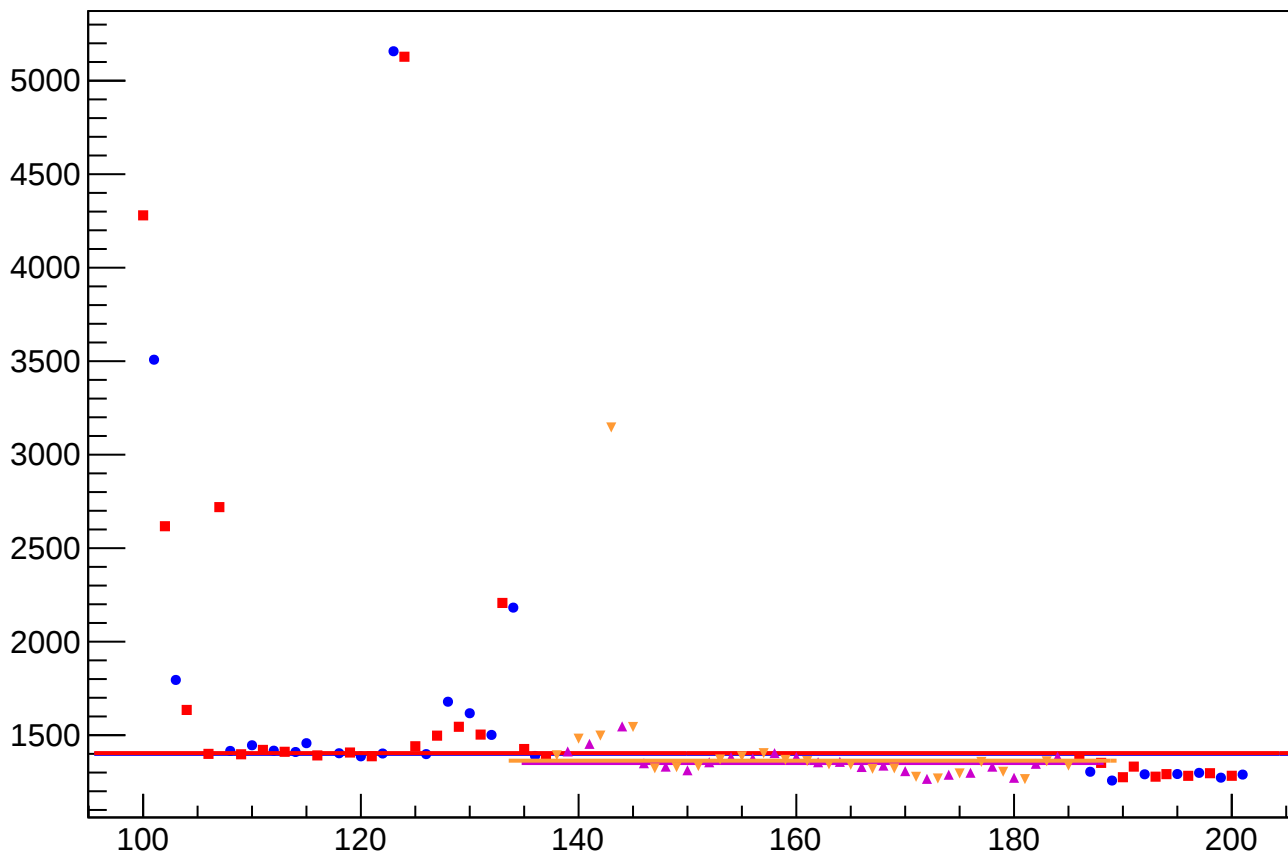
Right: -360.443+/-291.359 χ^2/NDF : 36.5/51

In: -453.030+/-257.566 χ^2/NDF :49.5/46

Out: -306.455+/-250.444 χ^2/NDF :53.7/52

All: -377.688+/-179.556 χ^2/NDF : 103.4/99

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1400.044+/-0.300 χ^2/NDF : 690208.2/23

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1404.027+/-0.284 χ^2/NDF : 796047.1/27

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

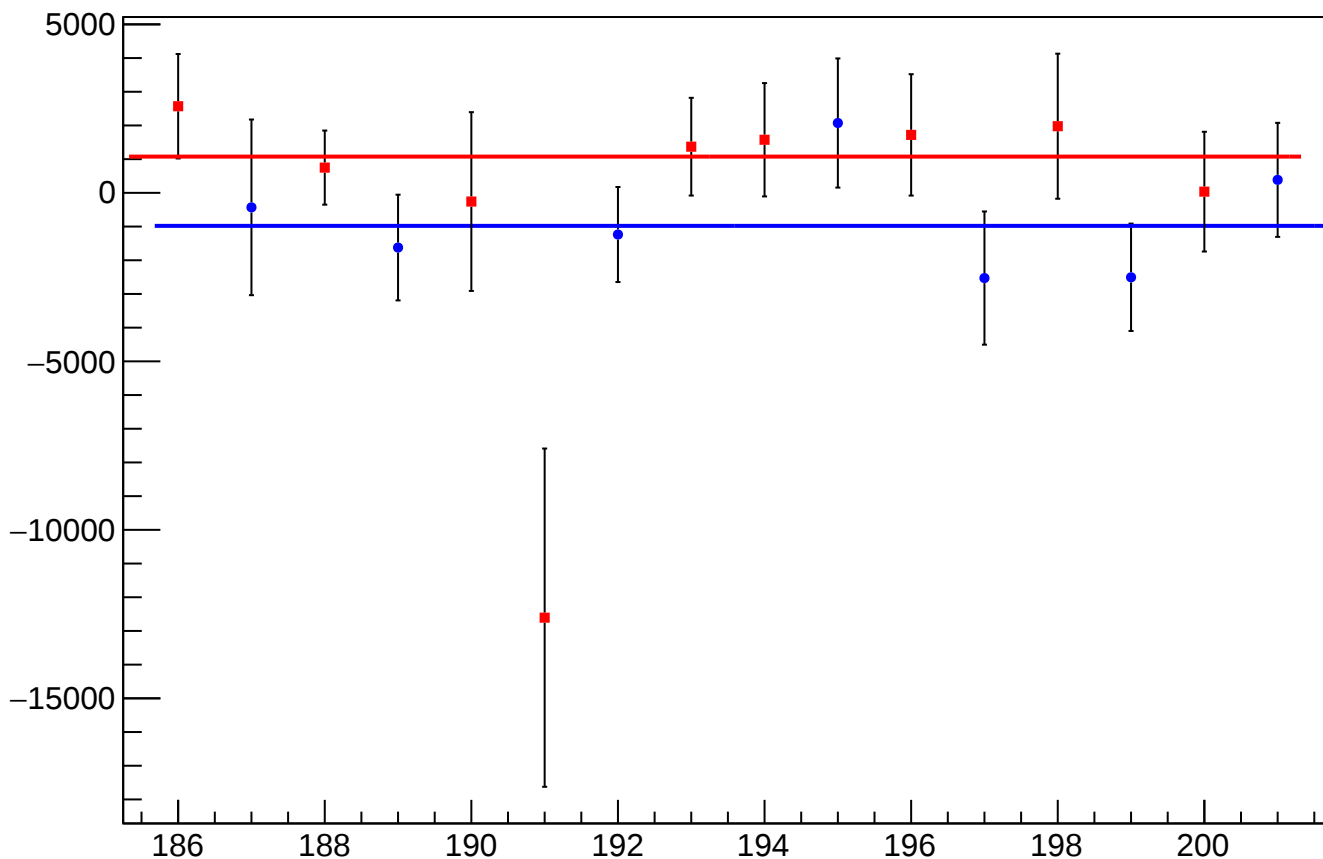
Right: 1402.144+/-0.206 χ^2/NDF : 1486348.5/51

In: 1369.063+/-0.182 χ^2/NDF : 774309.1/46

Out: 1379.324+/-0.177 χ^2/NDF : 1383690.0/52

All: 1374.338+/-0.127 χ^2/NDF : 2159630.7/99

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -979.490+/-655.342 χ^2/NDF : 5.0/6

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1075.850+/-568.378 χ^2/NDF : 9.5/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

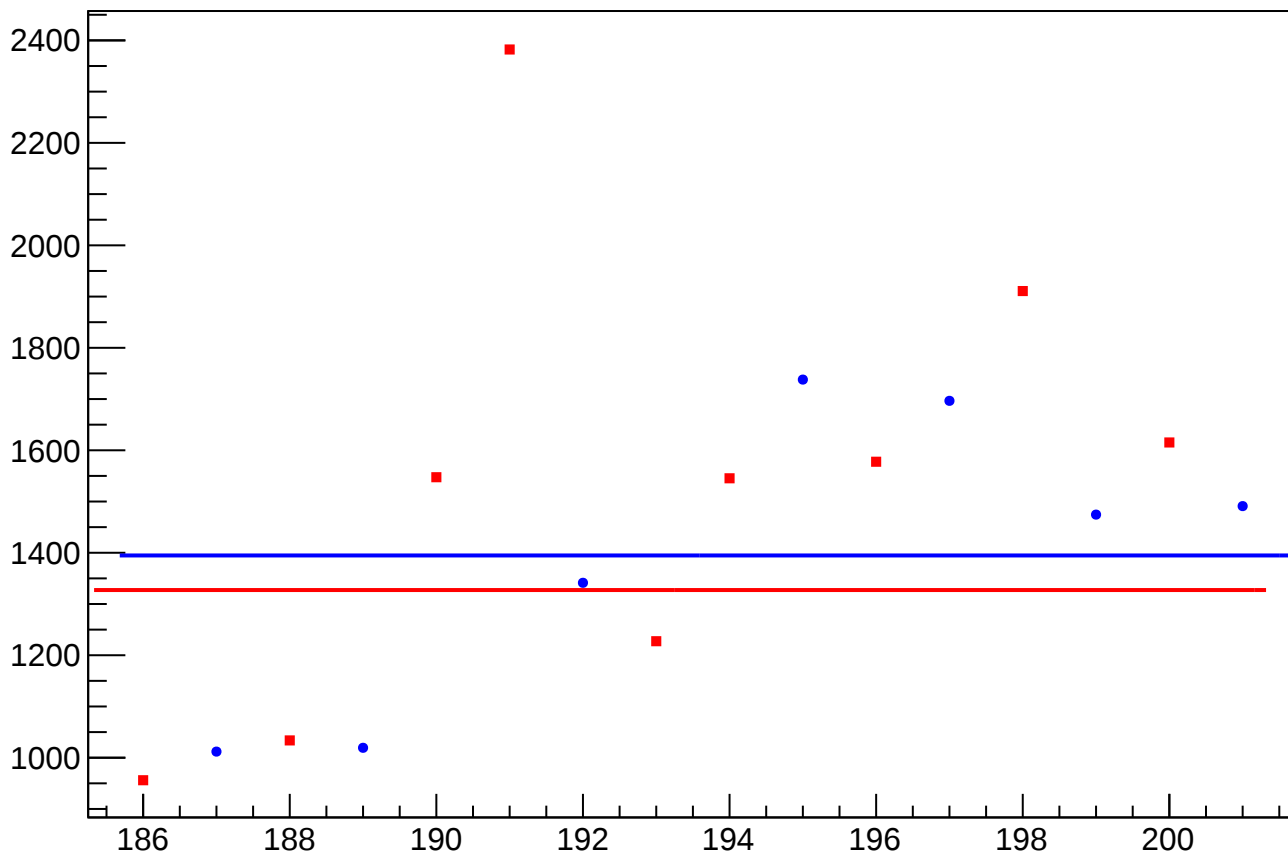
Right: 193.509+/-429.383 χ^2/NDF : 20.1/15

In: -979.490+/-655.342 χ^2/NDF : 5.0/6

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 193.509+/-429.383 χ^2/NDF : 20.1/15

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1394.752+/-0.463 χ^2/NDF : 282840.6/6

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1327.248+/-0.402 χ^2/NDF : 640720.0/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

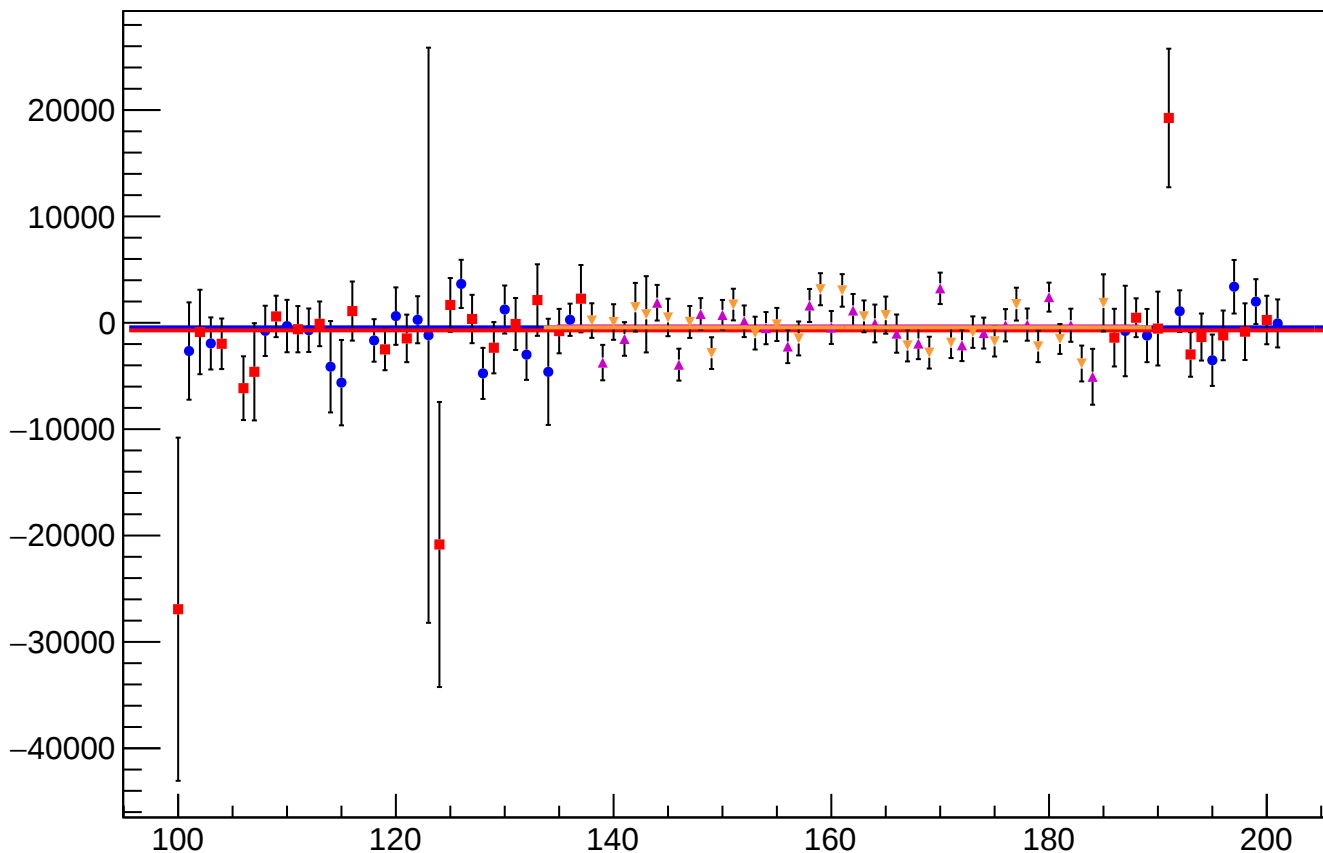
Right: 1356.227+/-0.304 χ^2/NDF : 935671.2/15

In: 1394.752+/-0.463 χ^2/NDF : 282840.6/6

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1356.227+/-0.304 χ^2/NDF : 935671.2/15

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -429.604 $\pm$ 503.071 χ^2 /NDF: 18.8/23

Left Out: -431.715 $\pm$ 320.540 χ^2 /NDF:33.1/24

Right Out: -710.659 $\pm$ 482.195 χ^2 /NDF: 25.7/27

Left In: -343.737 $\pm$ 324.368 χ^2 /NDF:33.8/22

Left: -388.248 $\pm$ 227.997 χ^2 /NDF: 66.9/47

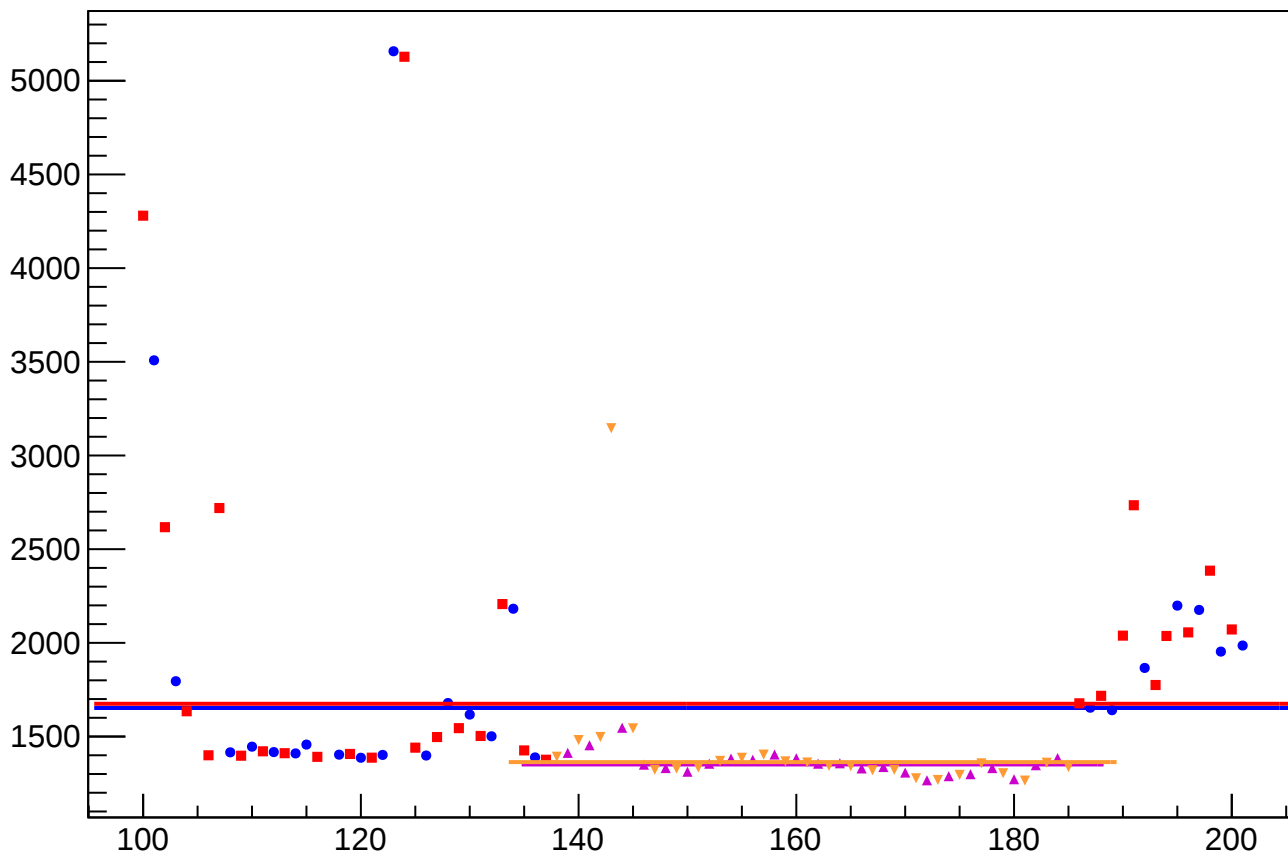
Right: -576.084 $\pm$ 348.110 χ^2 /NDF: 44.7/51

In: -368.952 $\pm$ 272.614 χ^2 /NDF:52.6/46

Out: -517.202 $\pm$ 266.941 χ^2 /NDF:59.0/52

All: -444.635 $\pm$ 190.730 χ^2 /NDF: 111.8/99

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1652.327+/-0.356 χ^2/NDF : 931313.5/23

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1674.874+/-0.341 χ^2/NDF : 1141730.4/27

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

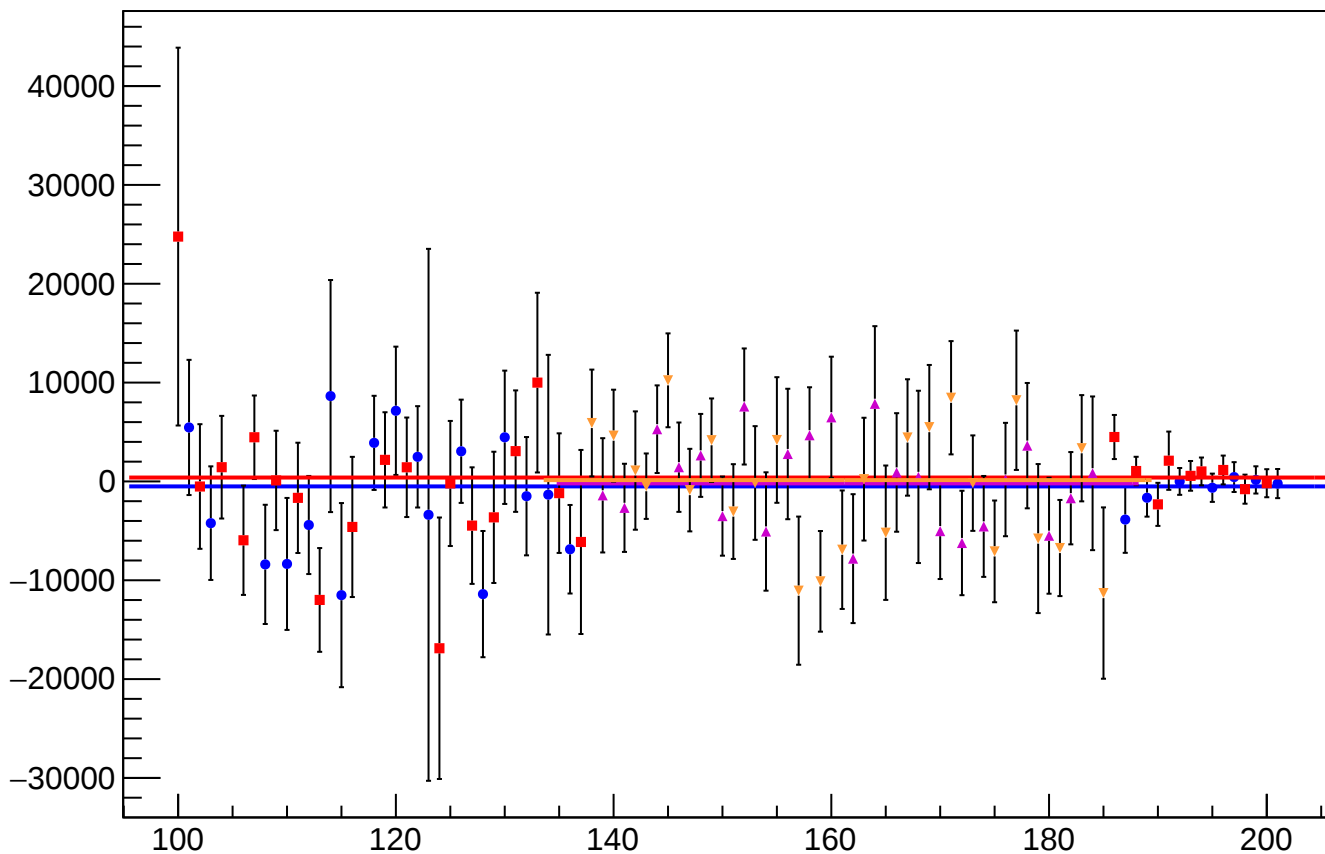
Right: 1664.078+/-0.246 χ^2/NDF : 2075137.8/51

In: 1439.422+/-0.193 χ^2/NDF : 1505598.9/46

Out: 1458.969+/-0.189 χ^2/NDF : 2295116.2/52

All: 1449.401+/-0.135 χ^2/NDF : 3805964.7/99

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -503.688+/-554.398 χ^2/NDF : 17.6/23

Left Out: 132.142+/-1065.543 χ^2/NDF : 28.1/24

Right Out: 393.593+/-505.722 χ^2/NDF : 21.7/27

Left In: -200.182+/-1123.499 χ^2/NDF : 14.7/22

Left: -25.227+/-773.130 χ^2/NDF : 42.9/47

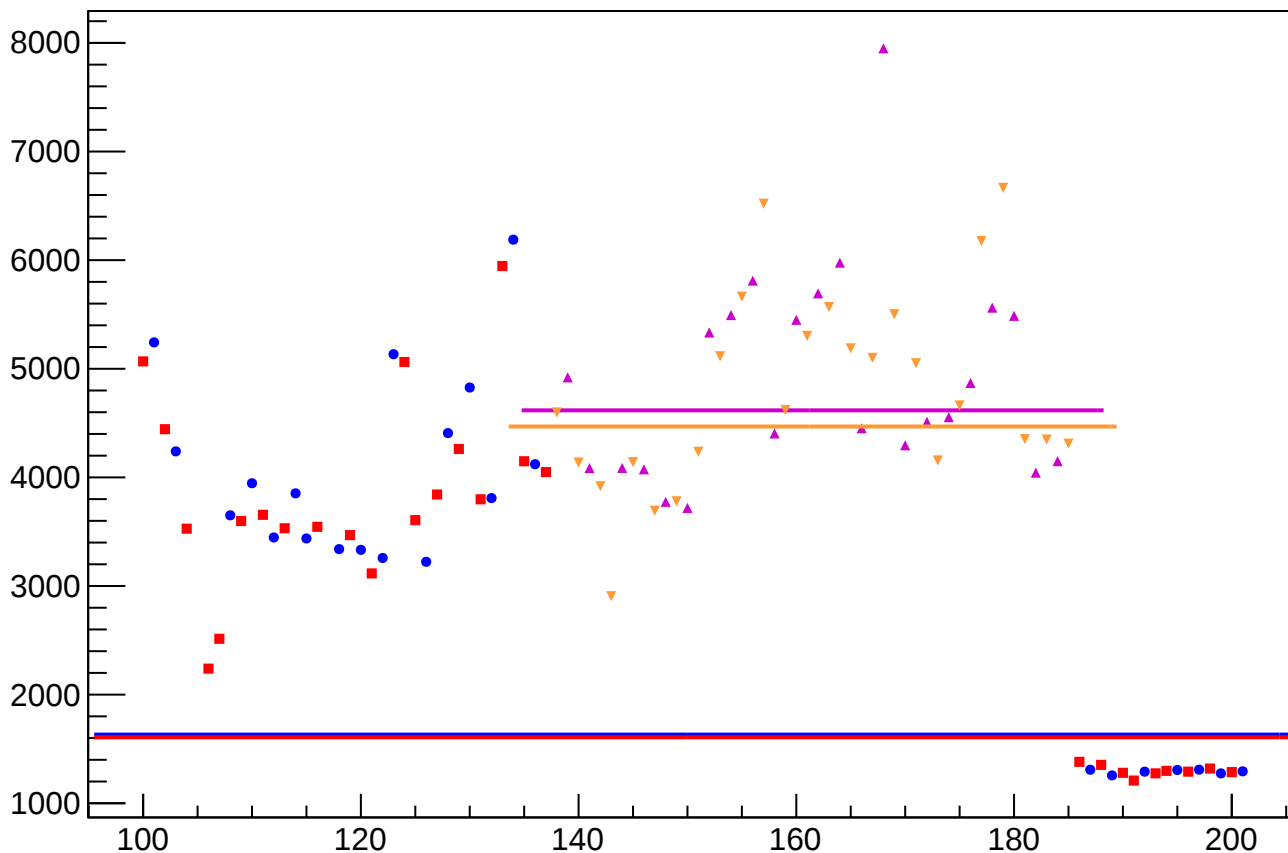
Right: -13.935+/-373.625 χ^2/NDF : 40.7/51

In: -444.256+/-497.163 χ^2/NDF : 32.4/46

Out: 345.526+/-456.876 χ^2/NDF : 49.9/52

All: -16.073+/-336.402 χ^2/NDF : 83.6/99

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1631.924 $\pm$ 0.392 χ^2 /NDF: 5237119.4/23

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF:1380601.0/24

Right Out: 1606.667 $\pm$ 0.357 χ^2 /NDF: 5124235.1/27

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

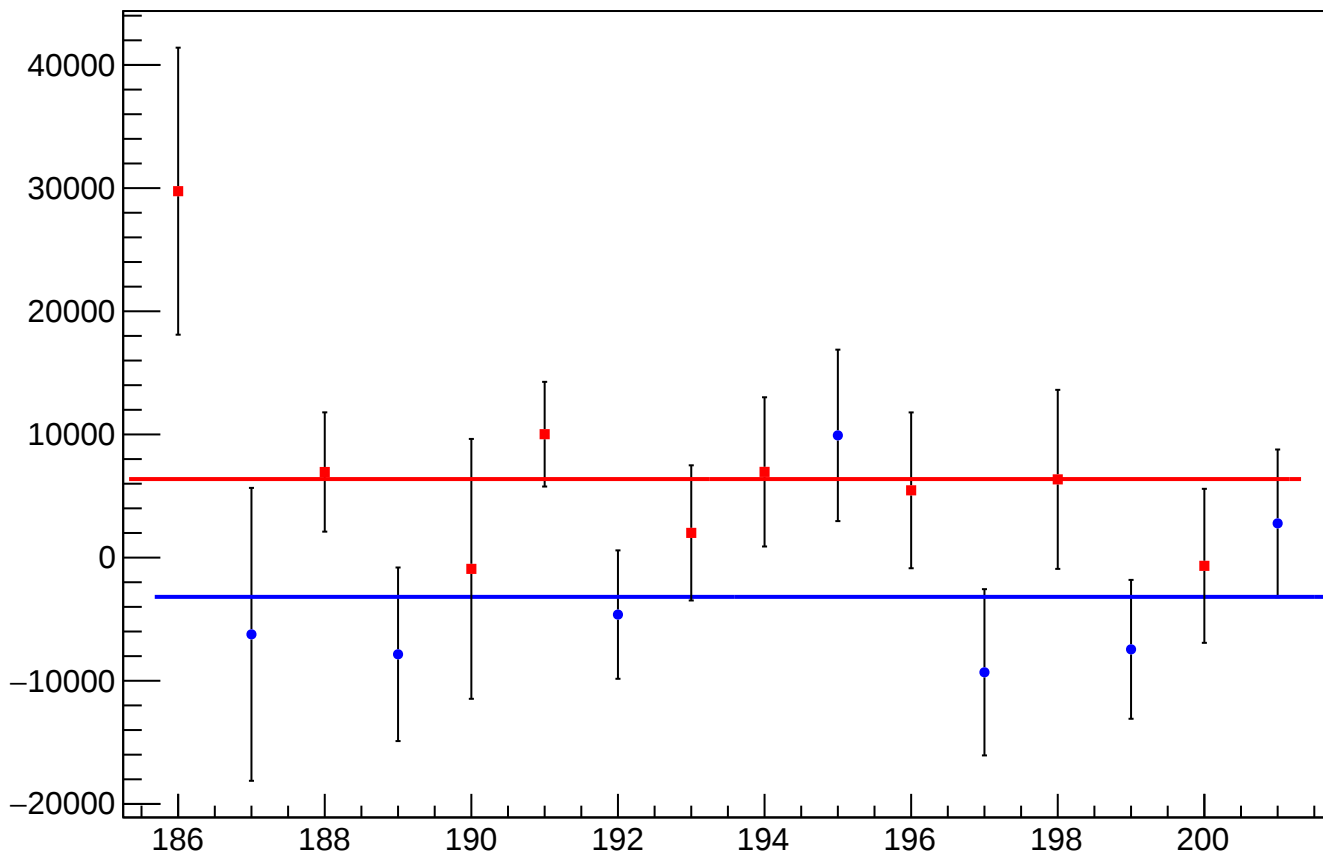
Right: 1618.123 $\pm$ 0.264 χ^2 /NDF: 10363622.8/51

In: 2216.509 $\pm$ 0.352 χ^2 /NDF:17592981.2/46

Out: 2131.745 $\pm$ 0.323 χ^2 /NDF:18285028.9/52

All: 2170.511 $\pm$ 0.238 χ^2 /NDF: 35909559.1/95

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -3187.390+/-2455.304 χ^2/NDF : 6.5/6

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 6377.525+/-2023.126 χ^2/NDF : 7.2/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

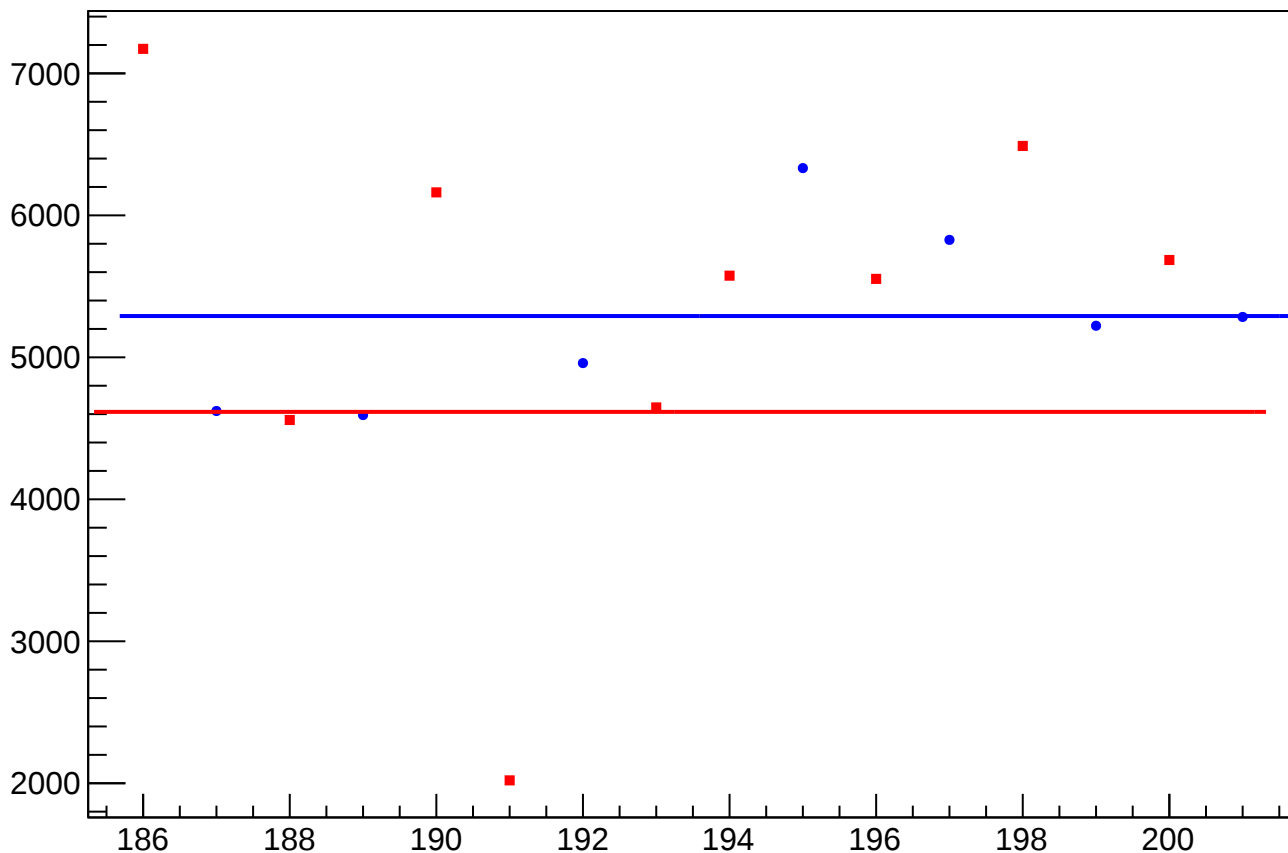
Right: 2509.584+/-1561.365 χ^2/NDF : 22.7/15

In: -3187.390+/-2455.304 χ^2/NDF : 6.5/6

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 2509.584+/-1561.365 χ^2/NDF : 22.7/15

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5290.811+/-1.736 χ^2/NDF : 91761.9/6

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4615.807+/-1.431 χ^2/NDF : 1171000.8/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

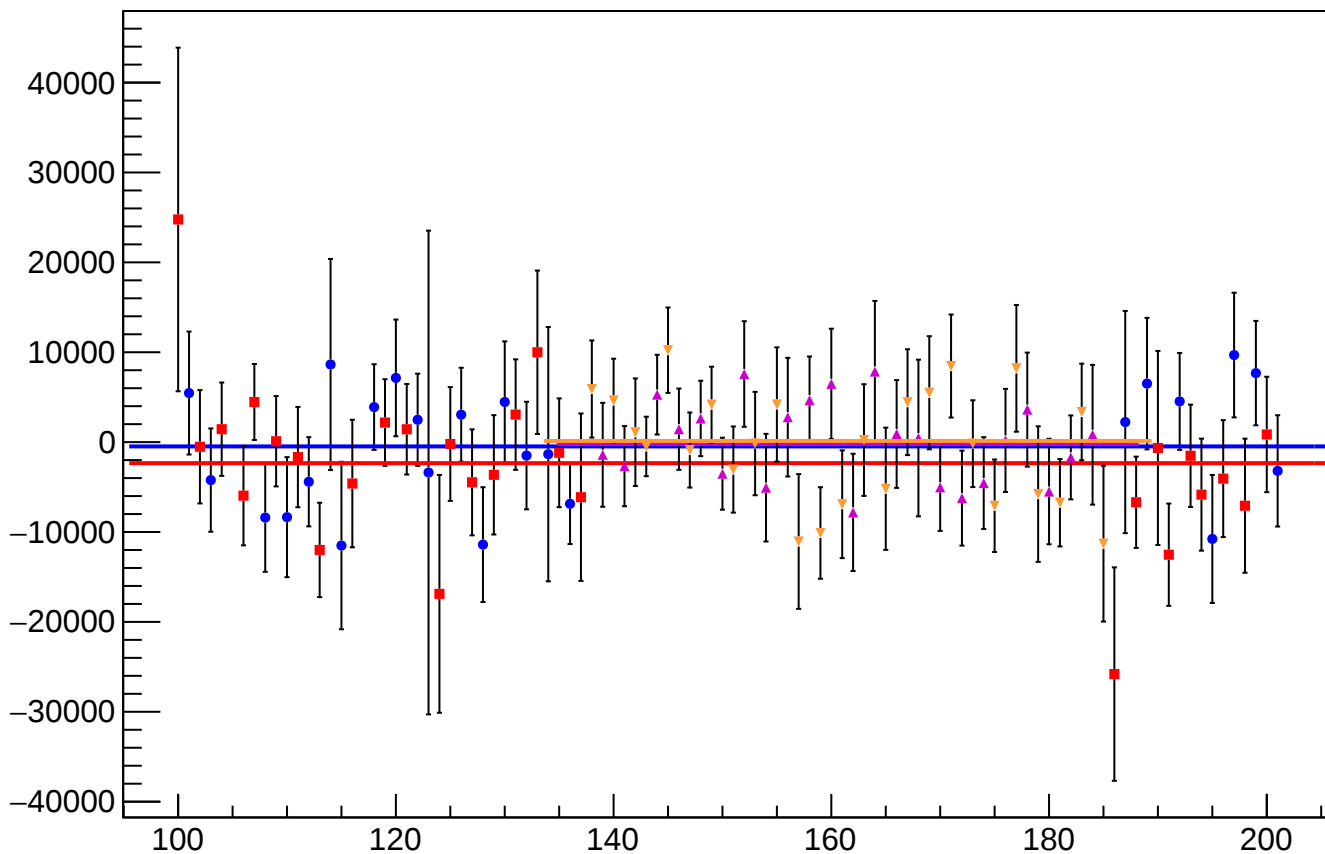
Right: 4888.771+/-1.104 χ^2/NDF : 1352794.7/15

In: 5290.811+/-1.736 χ^2/NDF : 91761.9/6

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4888.771+/-1.104 χ^2/NDF : 1352794.7/15

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -476.369 ± 1301.896 χ^2/NDF : 23.7/23

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: -2337.795 ± 1169.187 χ^2/NDF : 24.1/27

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

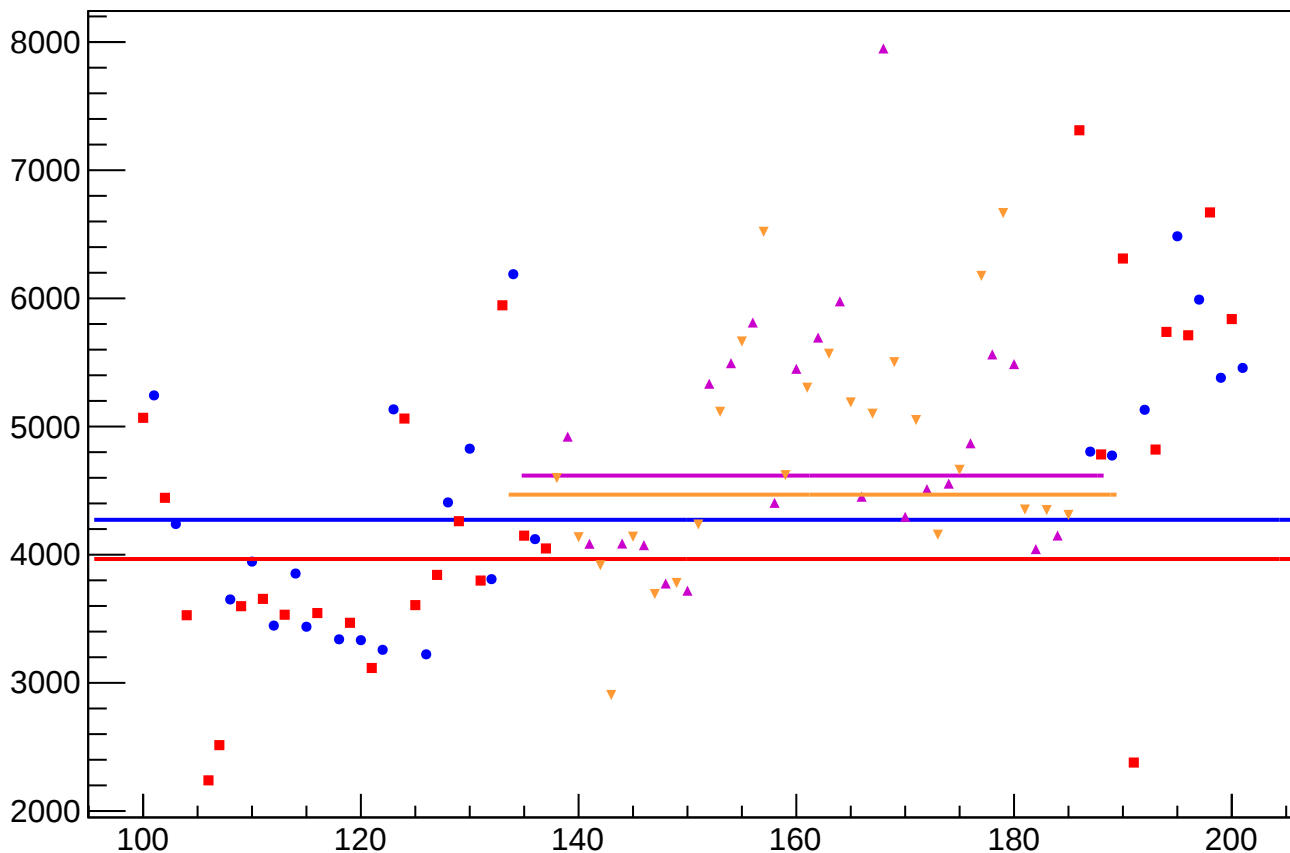
Right: -1506.762 ± 869.887 χ^2/NDF : 48.9/51

In: -318.070 ± 850.570 χ^2/NDF : 38.5/46

Out: -988.519 ± 787.550 χ^2/NDF : 54.6/52

All: -679.049 ± 577.878 χ^2/NDF : 93.4/99

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4272.321+/-0.921 χ^2/NDF : 1010862.2/23

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 3966.359+/-0.821 χ^2/NDF : 2005305.9/27

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

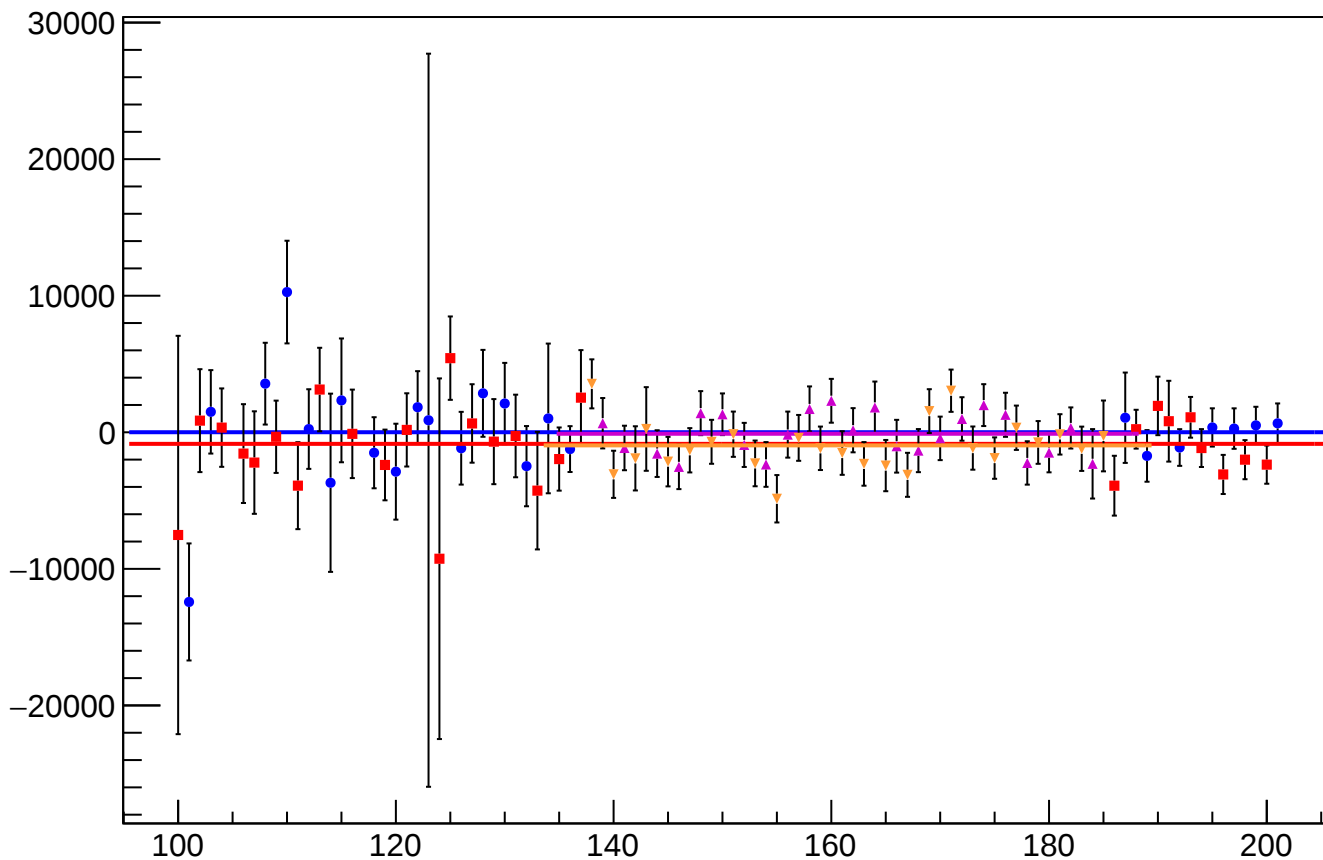
Right: 4101.964+/-0.613 χ^2/NDF : 3077674.8/51

In: 4470.041+/-0.601 χ^2/NDF : 2090949.5/46

Out: 4239.040+/-0.555 χ^2/NDF : 3588897.3/52

All: 4345.324+/-0.408 χ^2/NDF : 5759492.1/99

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 4.757 ± 462.931 χ^2/NDF : 24.5/23

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -846.976 ± 432.895 χ^2/NDF : 21.3/27

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

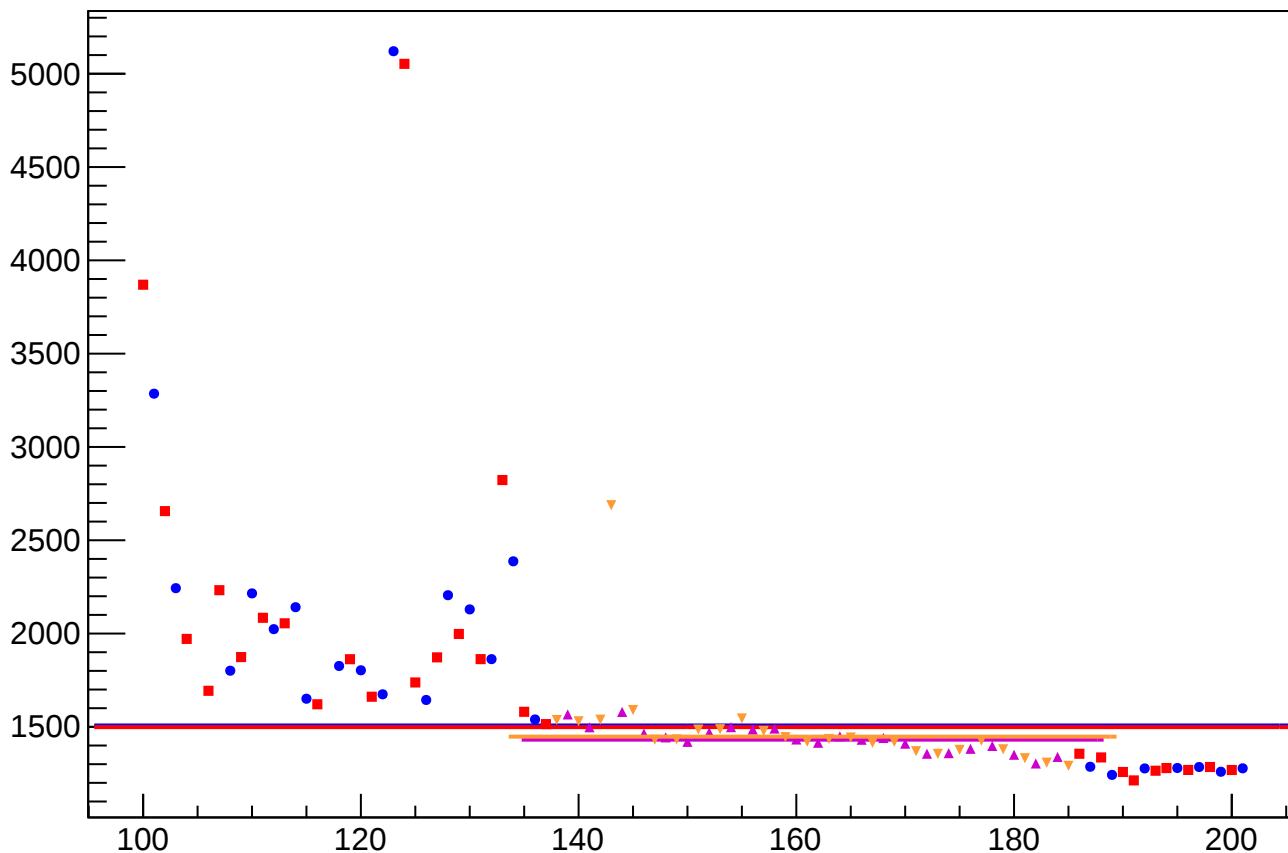
Right: -449.634 ± 316.189 χ^2/NDF : 47.5/51

In: -67.623 ± 275.938 χ^2/NDF : 44.0/46

Out: -915.974 ± 267.143 χ^2/NDF : 49.8/52

All: -505.535 ± 191.933 χ^2/NDF : 98.7/99

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1507.482+/-0.327 χ^2/NDF : 1314240.6/23

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1498.562+/-0.306 χ^2/NDF : 1392654.9/27

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

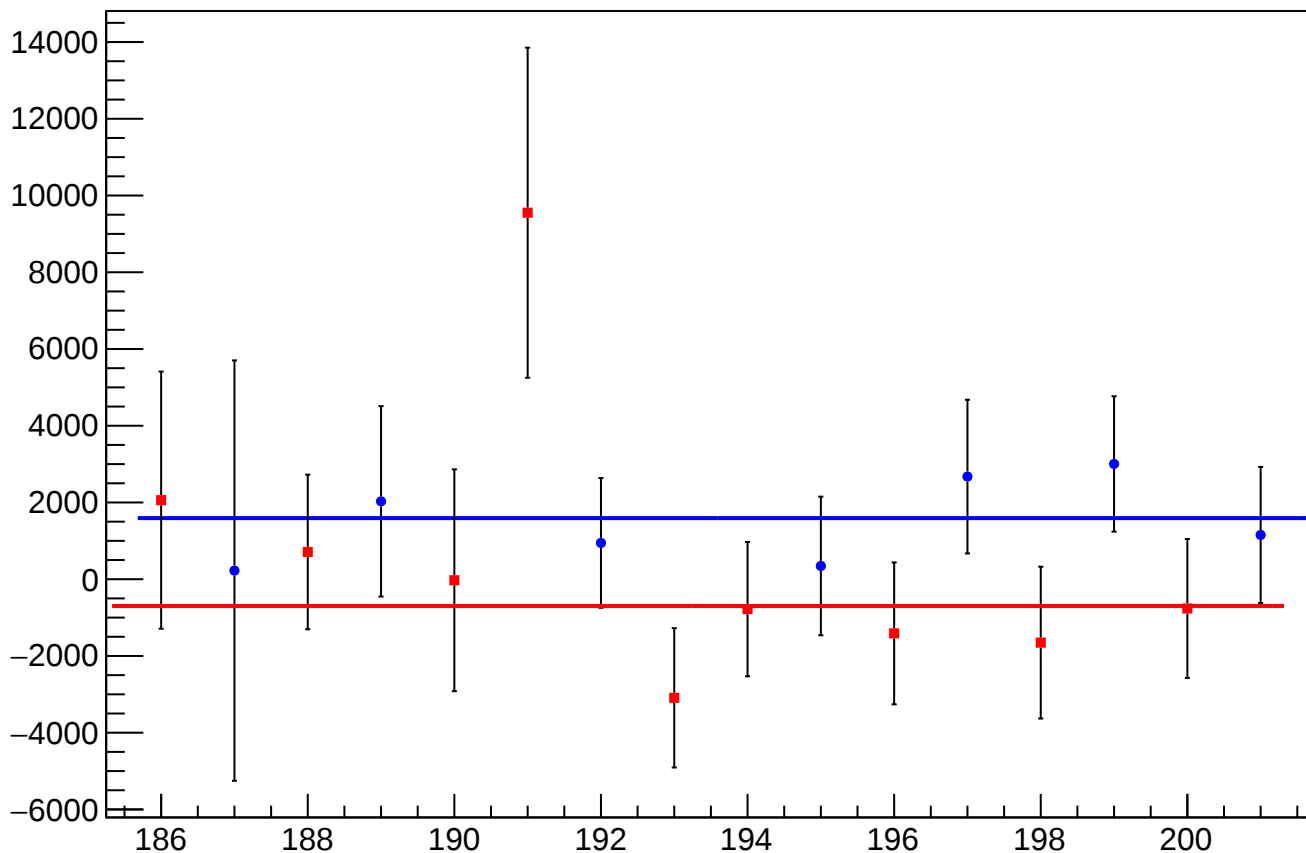
Right: 1502.724+/-0.224 χ^2/NDF : 2707291.6/51

In: 1458.468+/-0.195 χ^2/NDF : 1424148.1/46

Out: 1466.979+/-0.189 χ^2/NDF : 1829102.7/52

All: 1462.861+/-0.136 χ^2/NDF : 3254233.1/99

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1592.919+/-757.937 χ^2/NDF : 1.7/6

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -696.760+/-708.604 χ^2/NDF : 9.0/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

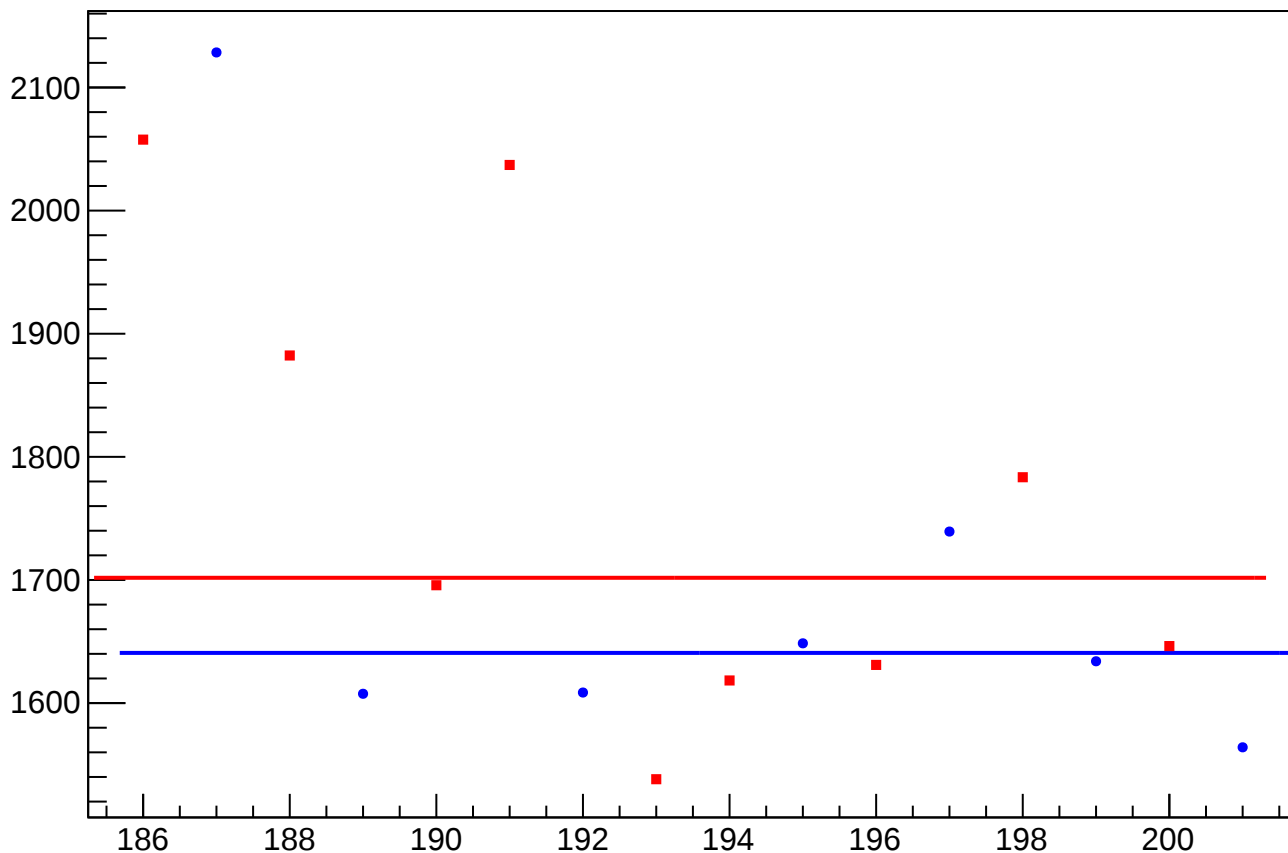
Right: 371.145+/-517.621 χ^2/NDF : 15.6/15

In: 1592.919+/-757.937 χ^2/NDF : 1.7/6

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 371.145+/-517.621 χ^2/NDF : 15.6/15

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1640.766+/-0.536 χ^2/NDF : 25581.4/6

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1701.775+/-0.501 χ^2/NDF : 79768.7/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

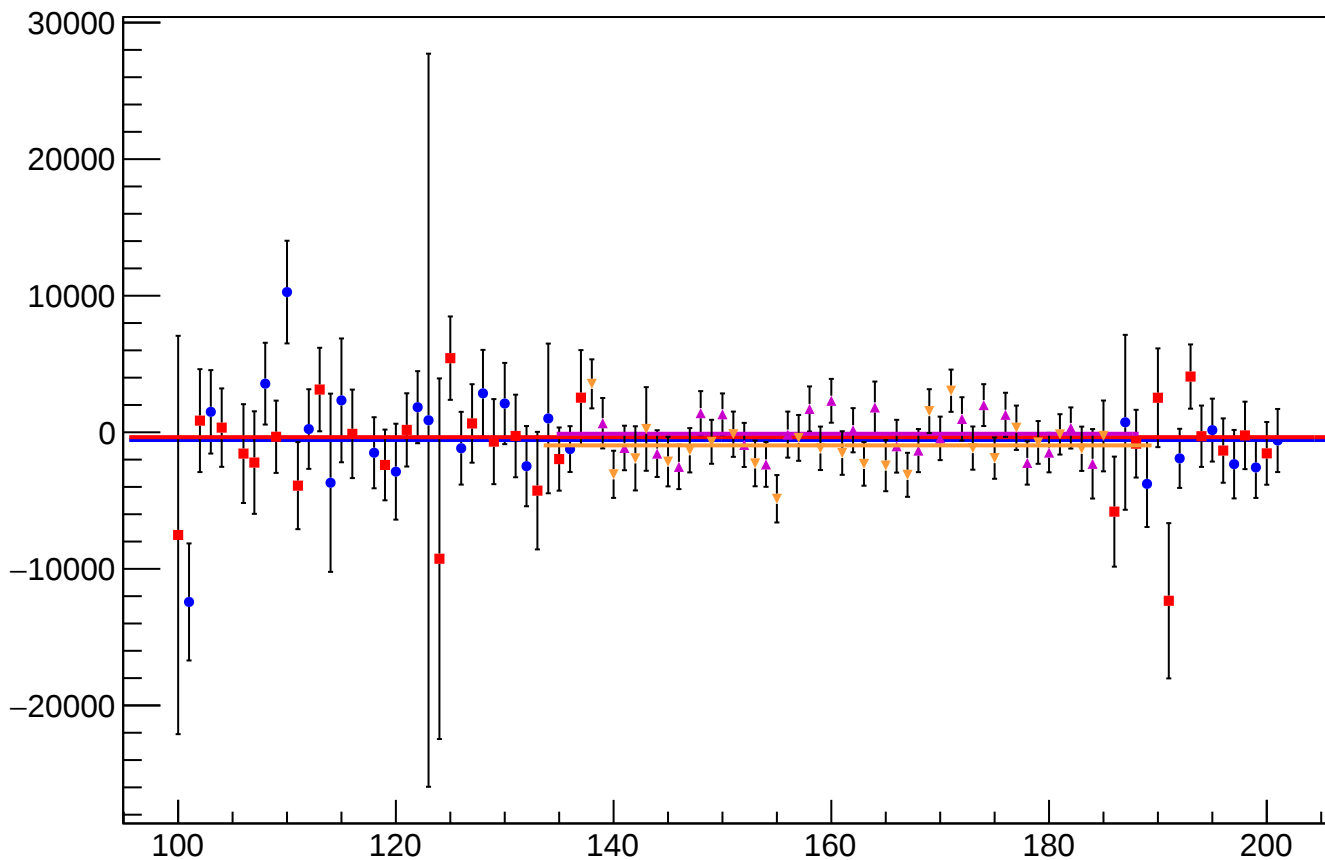
Right: 1673.321+/-0.366 χ^2/NDF : 112264.9/15

In: 1640.766+/-0.536 χ^2/NDF : 25581.4/6

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1673.321+/-0.366 χ^2/NDF : 112264.9/15

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -563.927+/-593.569 χ^2/NDF : 26.0/23

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -357.129+/-568.862 χ^2/NDF : 21.1/27

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

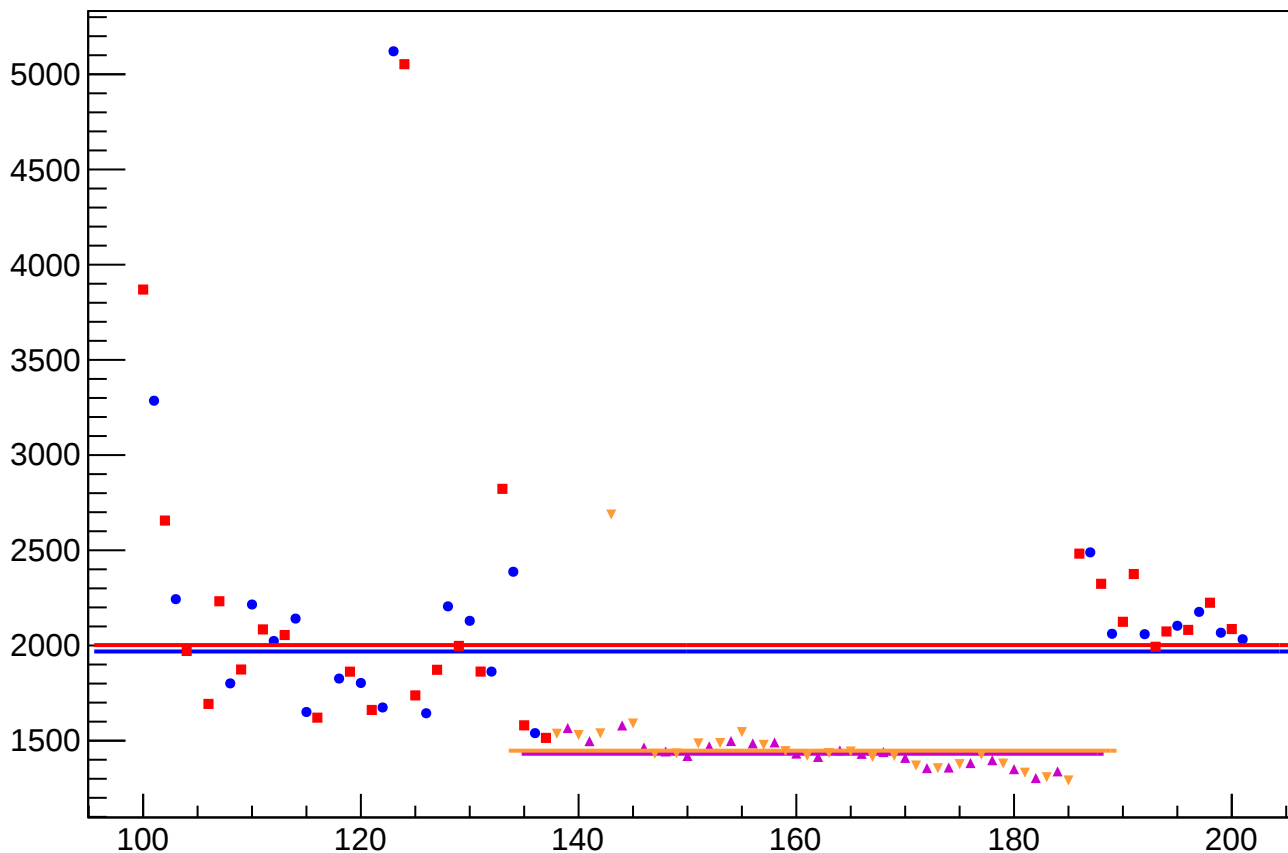
Right: -456.135+/-410.703 χ^2/NDF : 47.1/51

In: -222.098+/-297.411 χ^2/NDF : 45.9/46

Out: -800.496+/-291.527 χ^2/NDF : 50.4/52

All: -517.076+/-208.190 χ^2/NDF : 98.2/99

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1968.515 $\pm$ 0.420 χ^2/NDF : 530729.9/23

Left Out: 1447.554 $\pm$ 0.240 χ^2/NDF : 419254.7/24

Right Out: 2002.165 $\pm$ 0.402 χ^2/NDF : 592429.3/27

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

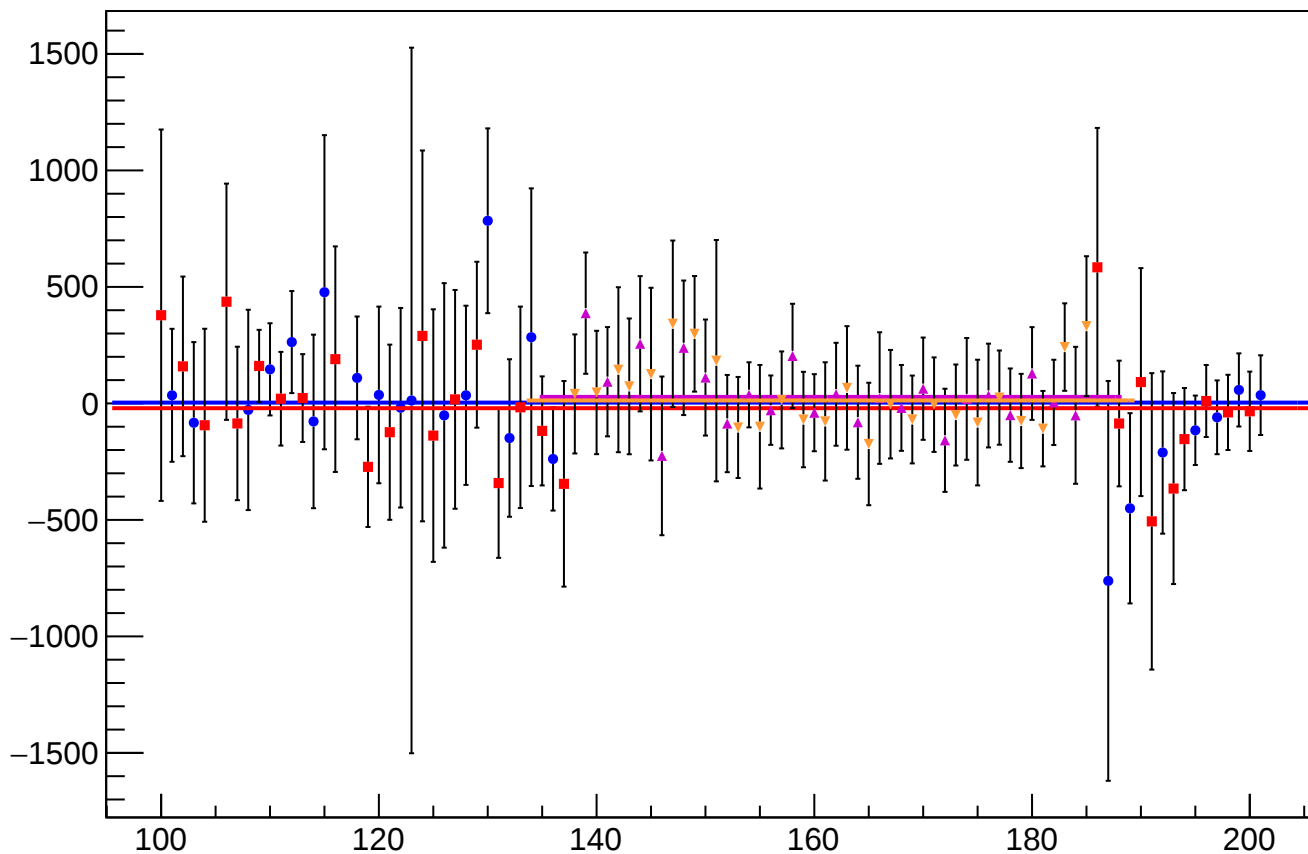
Right: 1986.055 $\pm$ 0.290 χ^2/NDF : 1126509.6/51

In: 1566.289 $\pm$ 0.210 χ^2/NDF : 1832126.2/46

Out: 1593.213 $\pm$ 0.206 χ^2/NDF : 2413478.4/52

All: 1580.020 $\pm$ 0.147 χ^2/NDF : 4253963.9/99

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 3.426 $\pm$ 54.866 χ^2 /NDF: 11.6/23

Left Out: 12.618 $\pm$ 47.486 χ^2 /NDF:7.7/24

Right Out: -20.550 $\pm$ 52.087 χ^2 /NDF: 9.4/27

Left In: 27.921 $\pm$ 44.523 χ^2 /NDF:6.5/22

Left: 20.762 $\pm$ 32.480 χ^2 /NDF: 14.3/47

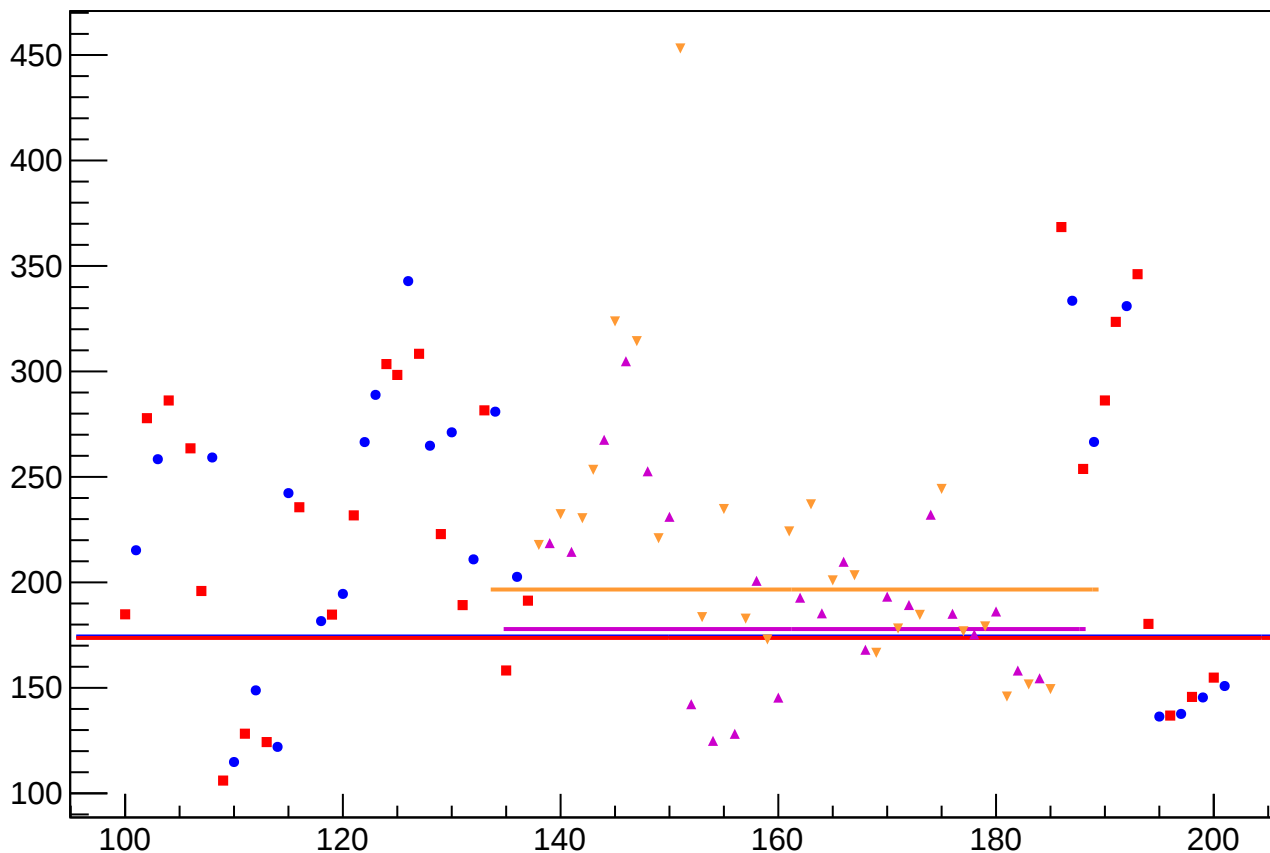
Right: -9.185 $\pm$ 37.775 χ^2 /NDF: 21.0/51

In: 18.195 $\pm$ 34.572 χ^2 /NDF:18.2/46

Out: -2.437 $\pm$ 35.092 χ^2 /NDF:17.3/52

All: 8.033 $\pm$ 24.628 χ^2 /NDF: 35.7/99

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.349 $\pm$ 0.039 χ^2 /NDF: 2051538.9/23

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 173.668 $\pm$ 0.037 χ^2 /NDF: 2731862.2/27

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

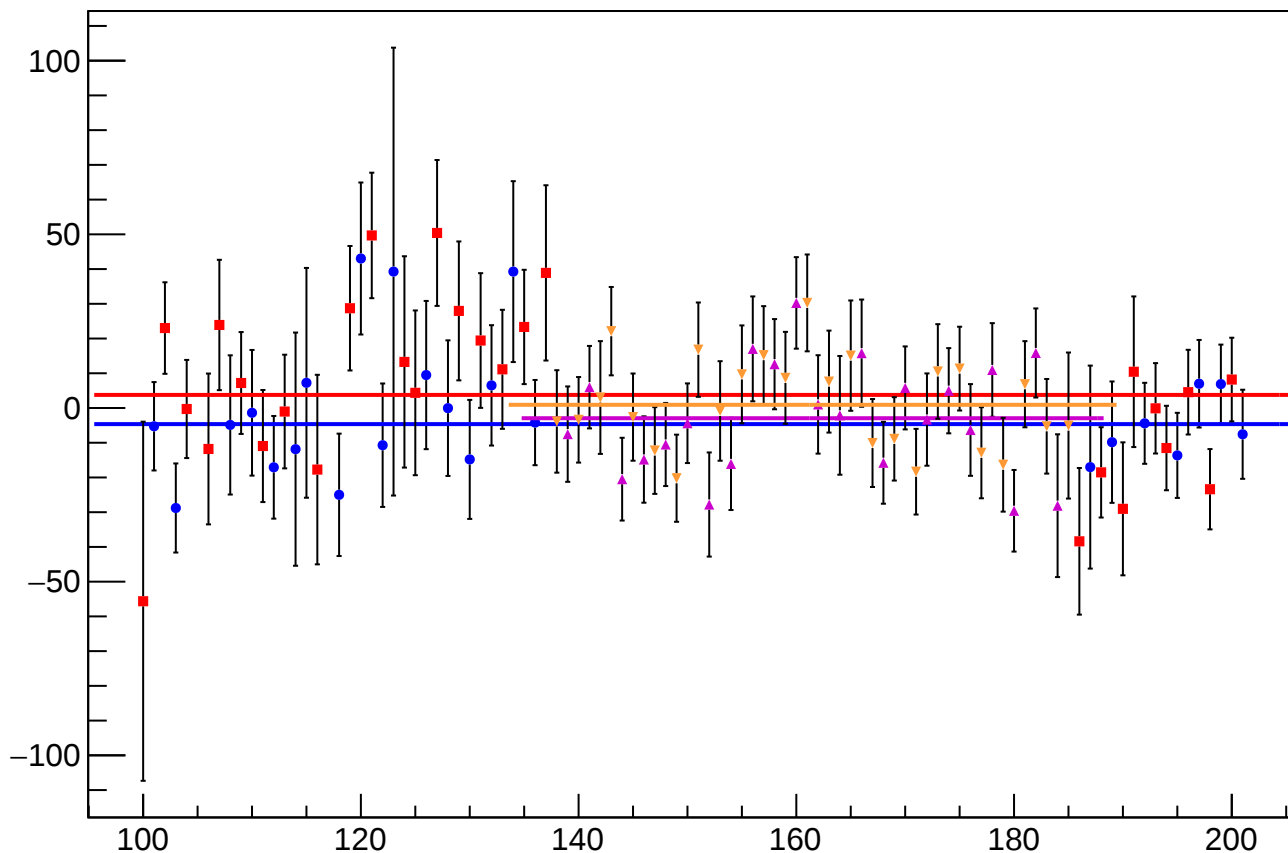
Right: 173.991 $\pm$ 0.027 χ^2 /NDF: 4783563.3/51

In: 176.477 $\pm$ 0.024 χ^2 /NDF:3700613.3/46

Out: 186.202 $\pm$ 0.025 χ^2 /NDF:4737440.7/52

All: 181.267 $\pm$ 0.017 χ^2 /NDF: 8516007.1/99

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.640 ± 3.312 χ^2/NDF : 18.0/23

Left Out: 0.920 ± 2.696 χ^2/NDF : 24.0/24

Right Out: 3.768 ± 3.137 χ^2/NDF : 43.2/27

Left In: -2.941 ± 2.745 χ^2/NDF : 31.0/22

Left: -0.976 ± 1.923 χ^2/NDF : 56.0/47

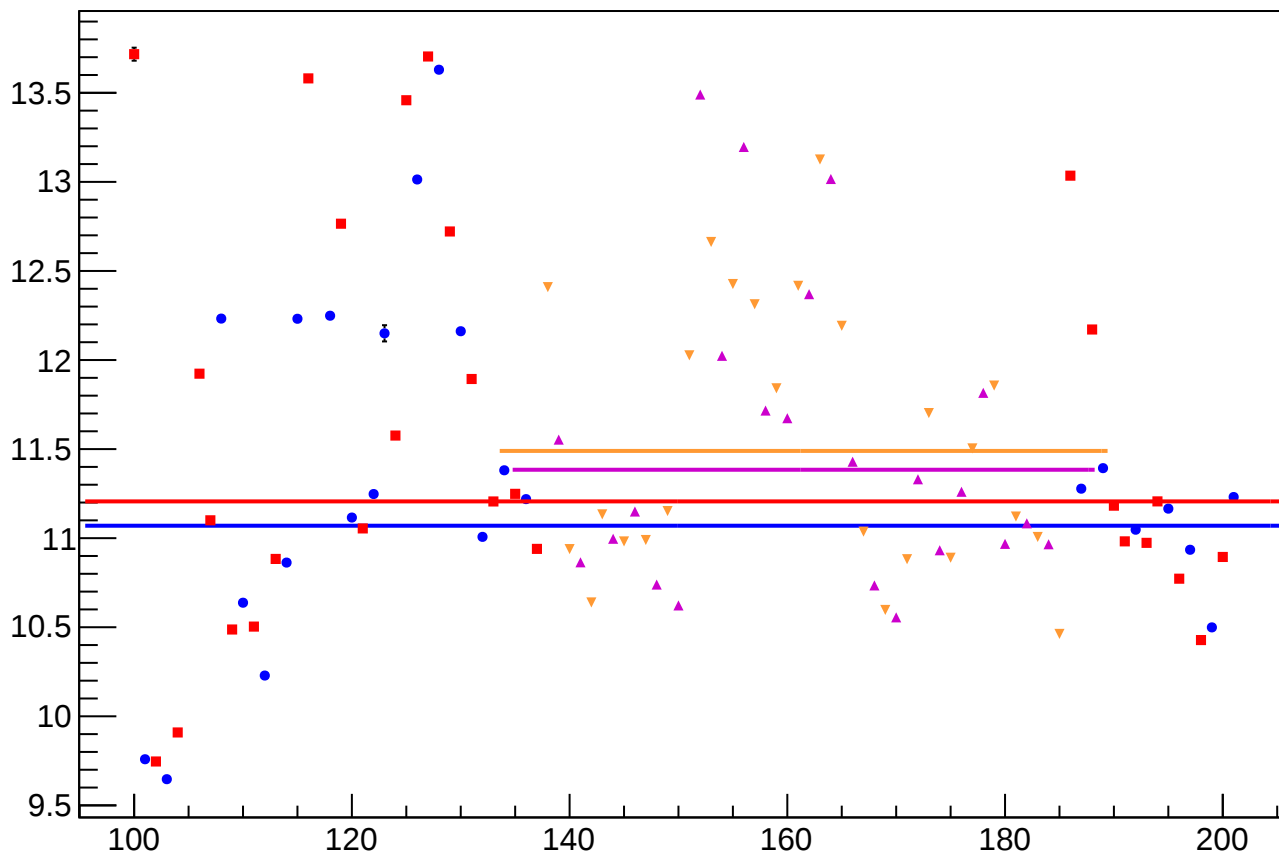
Right: -0.209 ± 2.278 χ^2/NDF : 64.5/51

In: -3.633 ± 2.113 χ^2/NDF : 49.2/46

Out: 2.130 ± 2.045 χ^2/NDF : 67.6/52

All: -0.657 ± 1.470 χ^2/NDF : 120.6/99

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.070 ± 0.002 $\chi^2/\text{NDF}: 138699.3/23$

Left Out: 11.490 ± 0.002 $\chi^2/\text{NDF}: 132399.1/24$

Right Out: 11.206 ± 0.002 $\chi^2/\text{NDF}: 188850.6/27$

Left In: 11.384 ± 0.002 $\chi^2/\text{NDF}: 149799.6/22$

Left: 11.438 ± 0.001 $\chi^2/\text{NDF}: 283707.5/47$

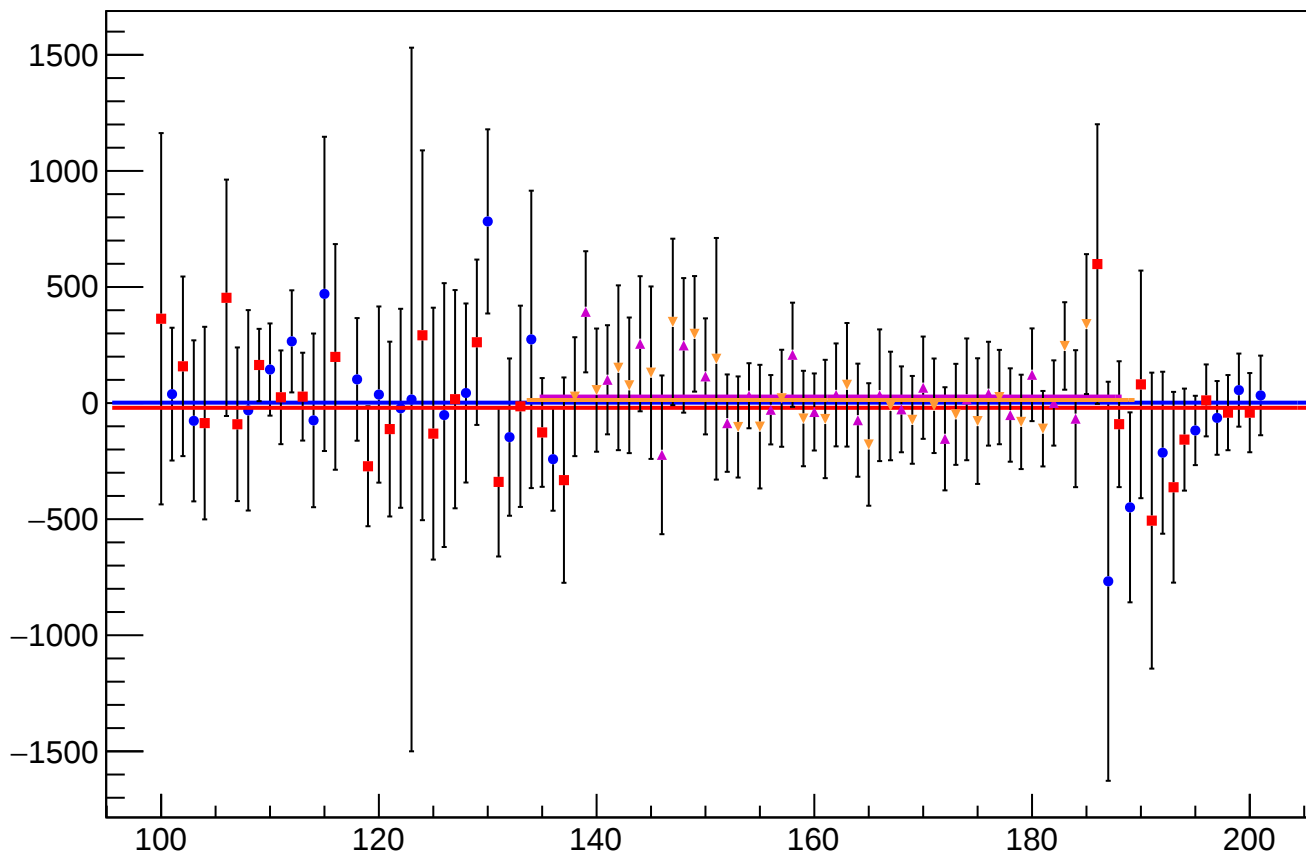
Right: 11.142 ± 0.002 $\chi^2/\text{NDF}: 329341.6/51$

In: 11.256 ± 0.001 $\chi^2/\text{NDF}: 299170.9/46$

Out: 11.369 ± 0.001 $\chi^2/\text{NDF}: 330633.9/52$

All: 11.315 ± 0.001 $\chi^2/\text{NDF}: 632771.3/99$

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 1.841 ± 55.008 $\chi^2/\text{NDF}: 11.5/23$

Left Out: 13.323 ± 47.662 $\chi^2/\text{NDF}: 7.9/24$

Right Out: -20.321 ± 52.231 $\chi^2/\text{NDF}: 9.5/27$

Left In: 28.050 ± 44.681 $\chi^2/\text{NDF}: 6.6/22$

Left: 21.161 ± 32.597 $\chi^2/\text{NDF}: 14.6/47$

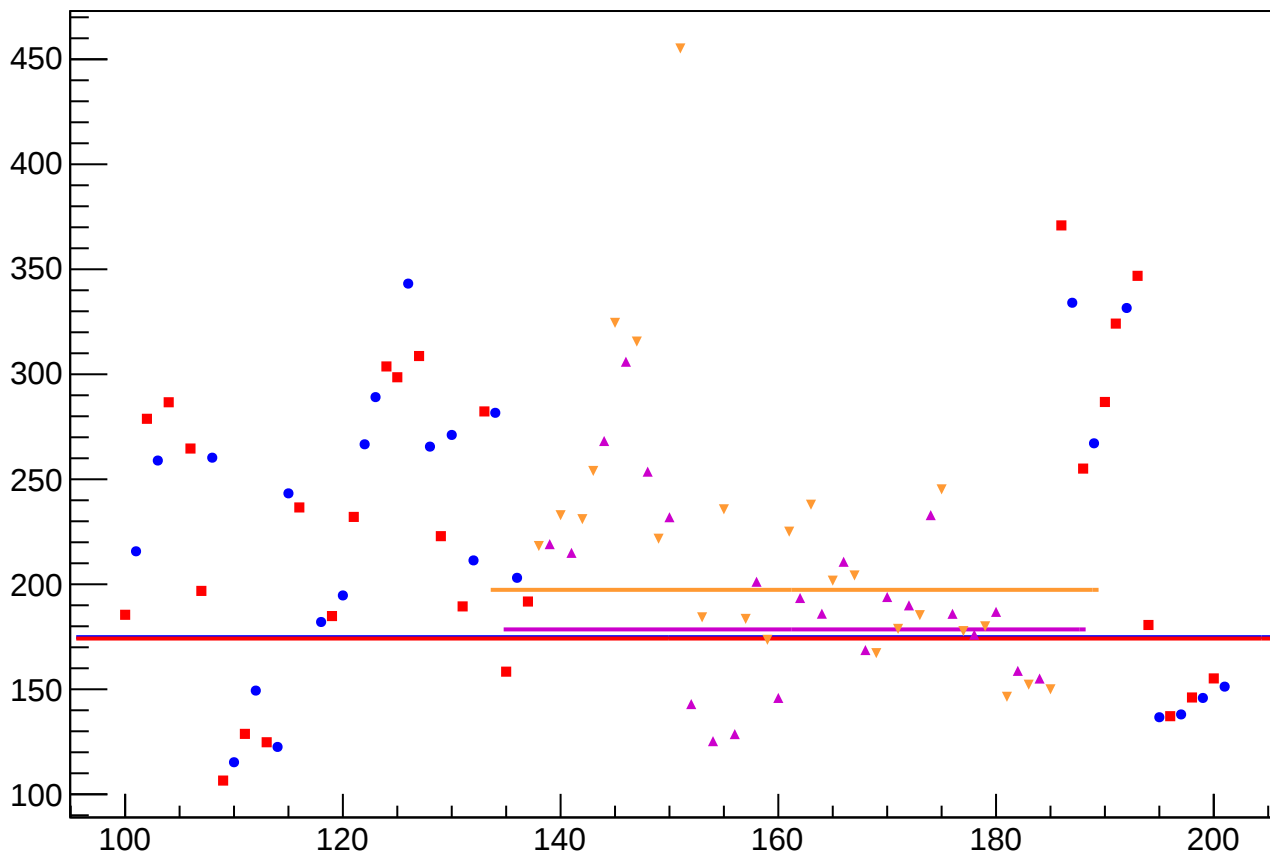
Right: -9.813 ± 37.877 $\chi^2/\text{NDF}: 21.2/51$

In: 17.632 ± 34.682 $\chi^2/\text{NDF}: 18.3/46$

Out: -1.964 ± 35.207 $\chi^2/\text{NDF}: 17.6/52$

All: 7.981 ± 24.707 $\chi^2/\text{NDF}: 36.1/99$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.822 $\pm$ 0.039 χ^2/NDF : 2046182.7/23

Left Out: 197.355 $\pm$ 0.034 χ^2/NDF : 1790824.5/24

Right Out: 174.165 $\pm$ 0.037 χ^2/NDF : 2727711.3/27

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

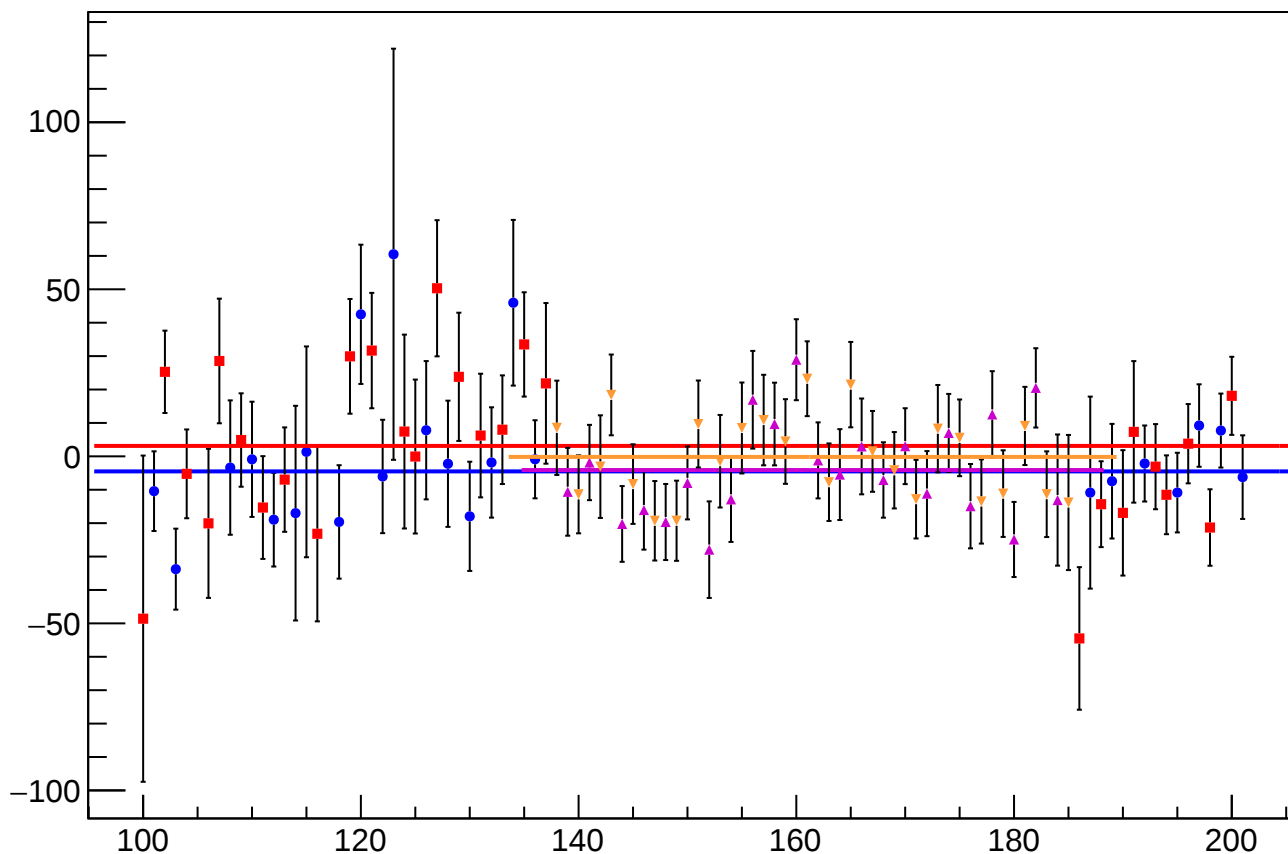
Right: 174.477 $\pm$ 0.027 χ^2/NDF : 4774043.9/51

In: 177.045 $\pm$ 0.025 χ^2/NDF : 3693909.4/46

Out: 186.819 $\pm$ 0.025 χ^2/NDF : 4733657.7/52

All: 181.858 $\pm$ 0.017 χ^2/NDF : 8505787.3/99

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.508 ± 3.191 $\chi^2/\text{NDF}: 22.6/23$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 3.120 ± 3.034 $\chi^2/\text{NDF}: 45.1/27$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

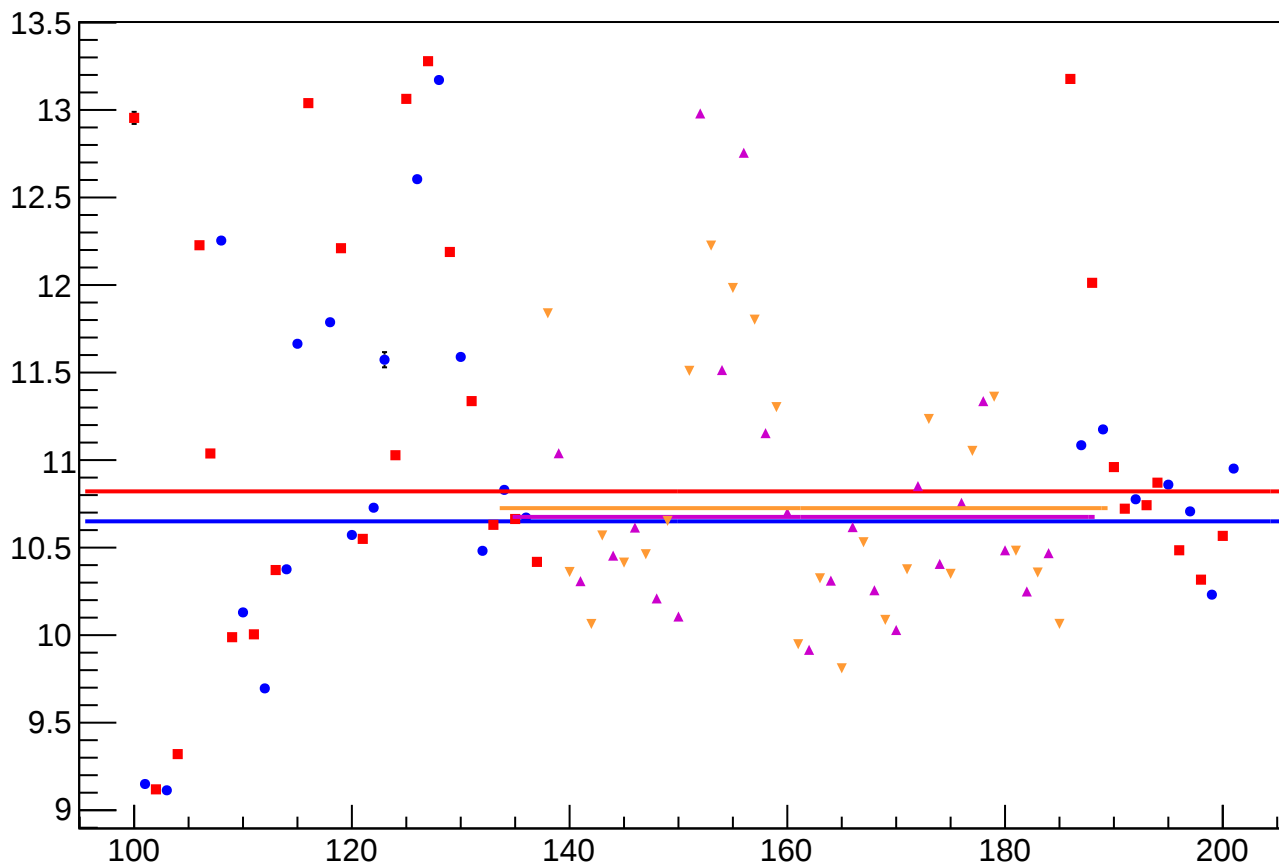
Right: -0.502 ± 2.199 $\chi^2/\text{NDF}: 70.7/51$

In: -4.265 ± 2.005 $\chi^2/\text{NDF}: 54.1/46$

Out: 1.173 ± 1.939 $\chi^2/\text{NDF}: 70.2/52$

All: -1.455 ± 1.394 $\chi^2/\text{NDF}: 128.1/99$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.650 $\pm$ 0.002 χ^2 /NDF: 166940.2/23

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.821 $\pm$ 0.002 χ^2 /NDF: 227081.5/27

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

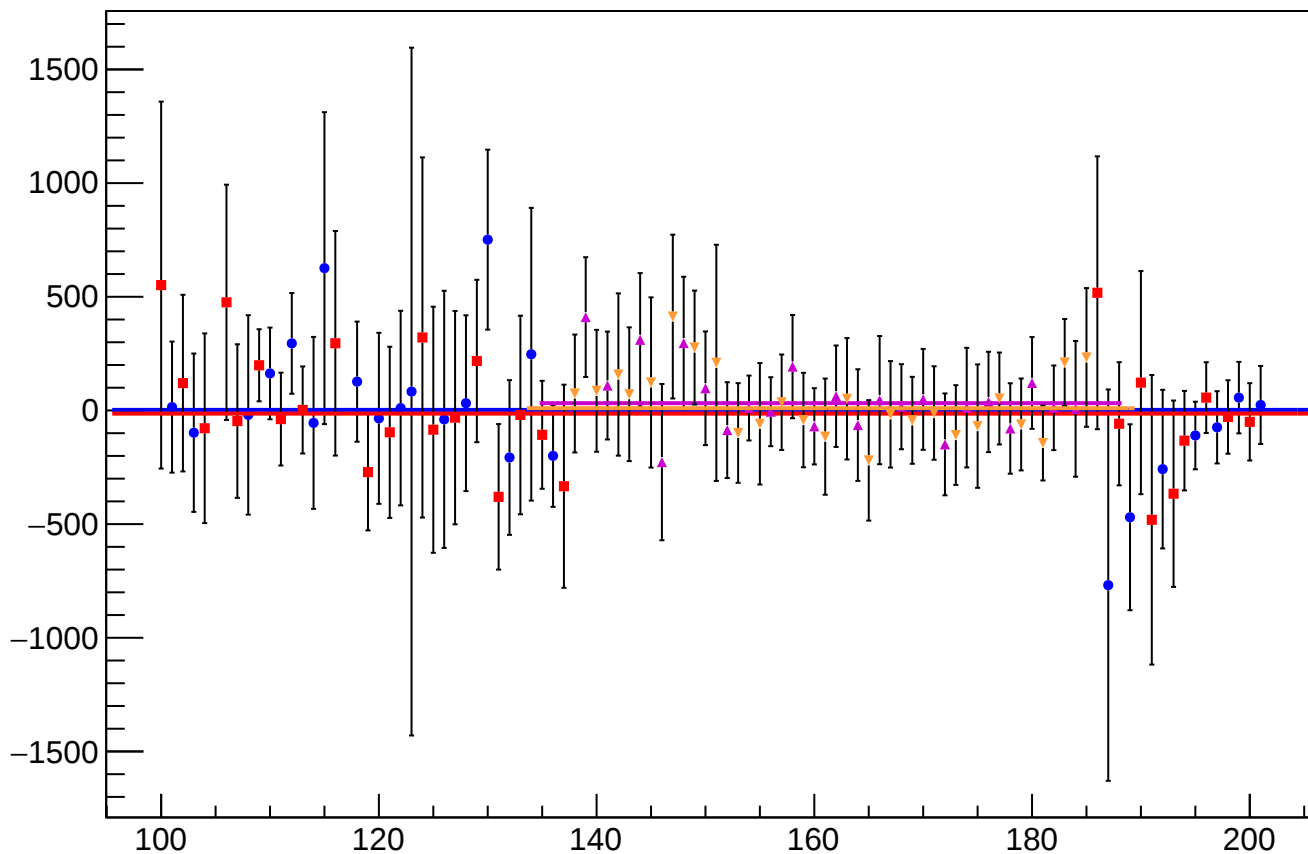
Right: 10.740 $\pm$ 0.002 χ^2 /NDF: 397043.3/51

In: 10.665 $\pm$ 0.001 χ^2 /NDF:312954.7/46

Out: 10.765 $\pm$ 0.001 χ^2 /NDF:360431.6/52

All: 10.717 $\pm$ 0.001 χ^2 /NDF: 675913.5/99

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 2.484 $\pm$ 55.152 χ^2 /NDF: 12.1/23

Left Out: 9.801 $\pm$ 47.979 χ^2 /NDF: 7.5/24

Right Out: -14.011 $\pm$ 52.487 χ^2 /NDF: 10.1/27

Left In: 31.989 $\pm$ 45.038 χ^2 /NDF: 7.2/22

Left: 21.596 $\pm$ 32.837 χ^2 /NDF: 14.8/47

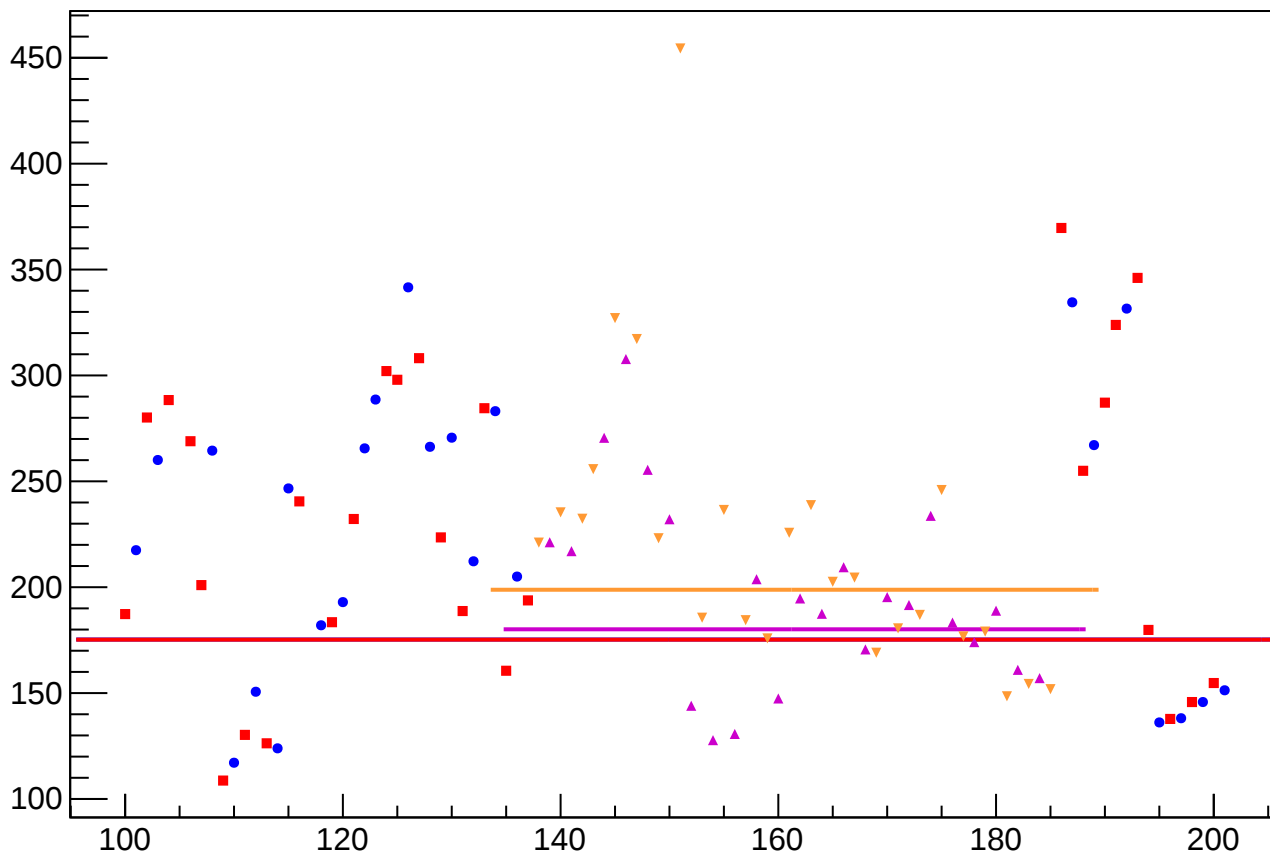
Right: -6.171 $\pm$ 38.021 χ^2 /NDF: 22.3/51

In: 20.185 $\pm$ 34.884 χ^2 /NDF: 19.5/46

Out: -1.038 $\pm$ 35.413 χ^2 /NDF: 17.8/52

All: 9.733 $\pm$ 24.852 χ^2 /NDF: 37.4/99

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.294 $\pm$ 0.039 χ^2 /NDF: 2042236.7/23

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 175.237 $\pm$ 0.037 χ^2 /NDF: 2679885.6/27

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

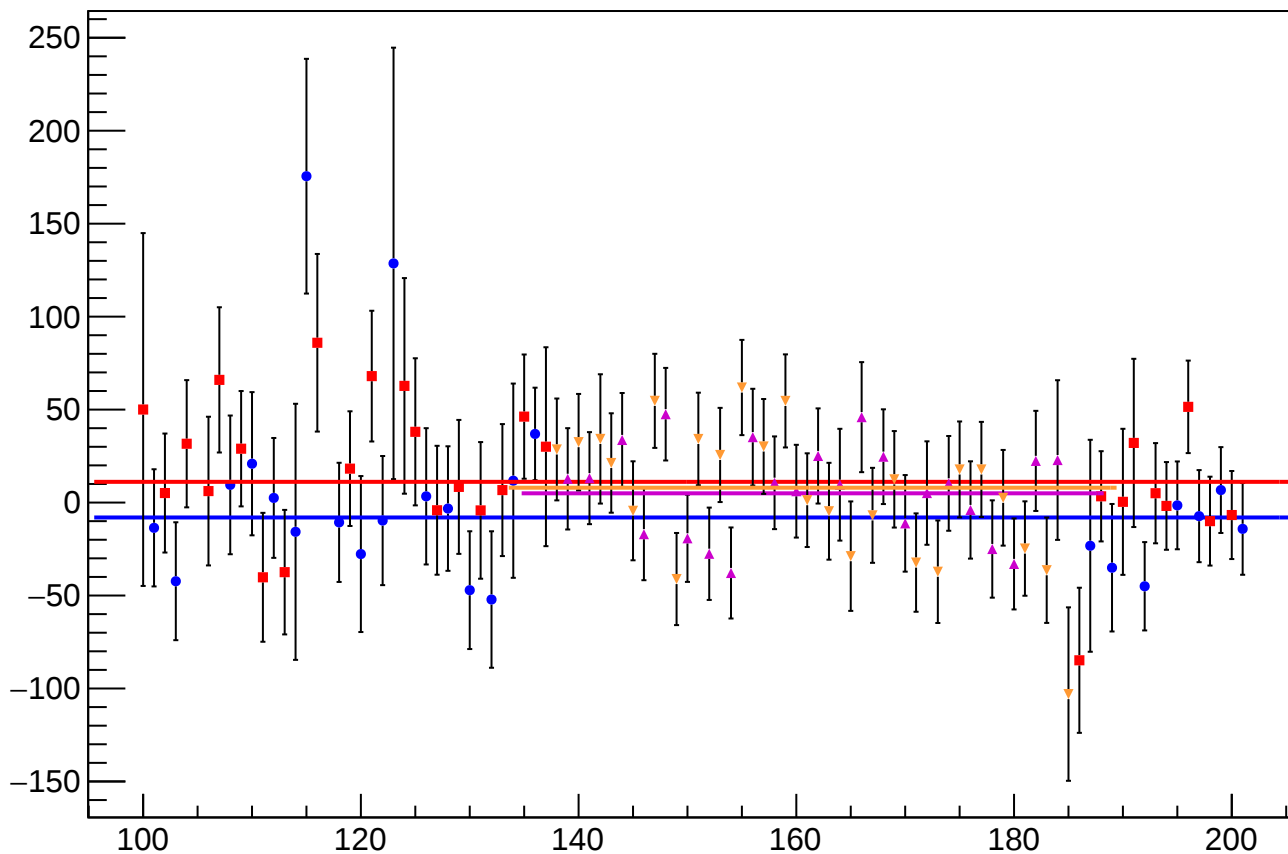
Right: 175.264 $\pm$ 0.027 χ^2 /NDF: 4722123.4/51

In: 178.191 $\pm$ 0.025 χ^2 /NDF:3645279.3/46

Out: 188.074 $\pm$ 0.025 χ^2 /NDF:4662595.2/52

All: 183.058 $\pm$ 0.018 χ^2 /NDF: 8386930.8/99

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -8.018 ± 6.668 $\chi^2/\text{NDF}: 22.3/23$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 11.148 ± 6.272 $\chi^2/\text{NDF}: 25.9/27$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

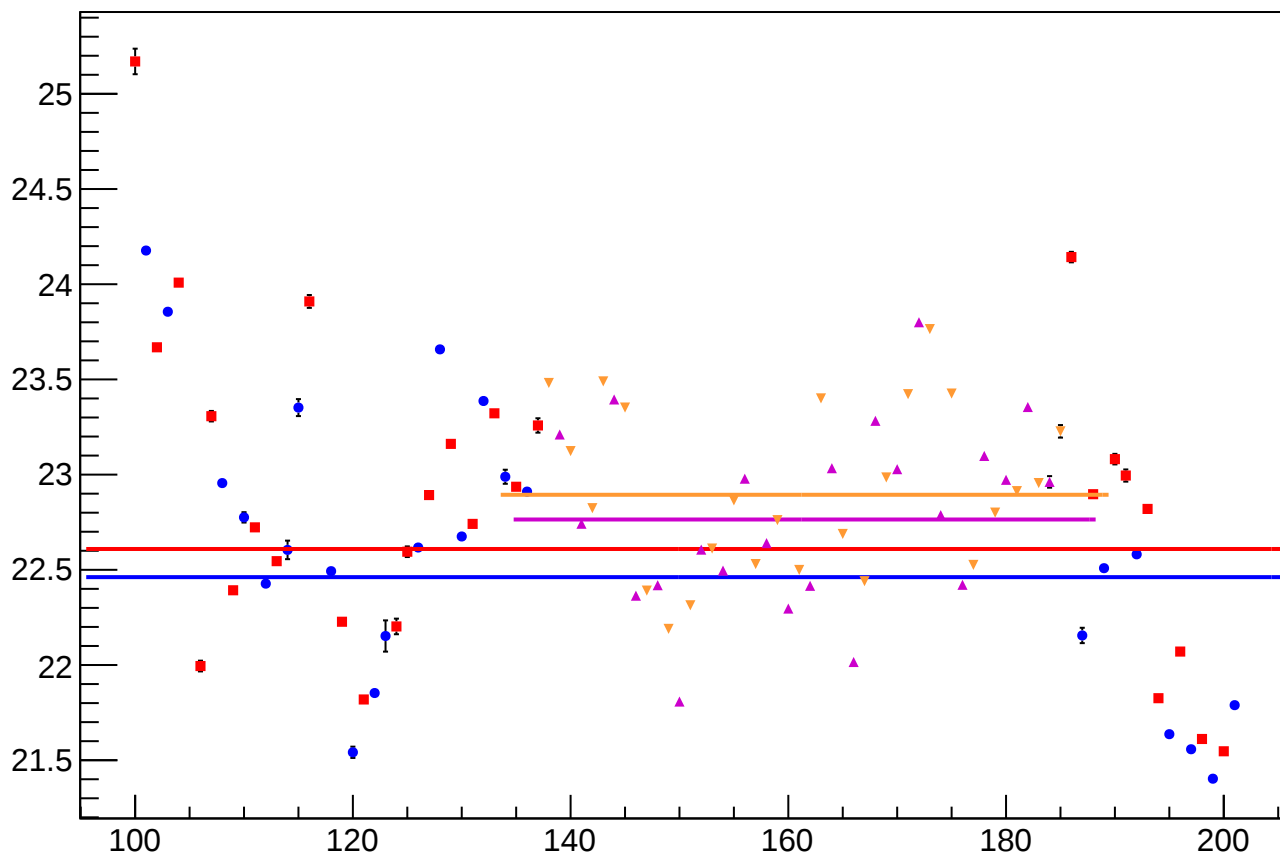
Right: 2.150 ± 4.569 $\chi^2/\text{NDF}: 52.7/51$

In: -0.223 ± 4.217 $\chi^2/\text{NDF}: 45.1/46$

Out: 9.313 ± 4.060 $\chi^2/\text{NDF}: 63.5/52$

All: 4.726 ± 2.925 $\chi^2/\text{NDF}: 111.2/99$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.462 $\pm$ 0.005 χ^2 /NDF: 27988.9/23

Left Out: 22.894 $\pm$ 0.004 χ^2 /NDF:13070.5/24

Right Out: 22.609 $\pm$ 0.004 χ^2 /NDF: 27629.3/27

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

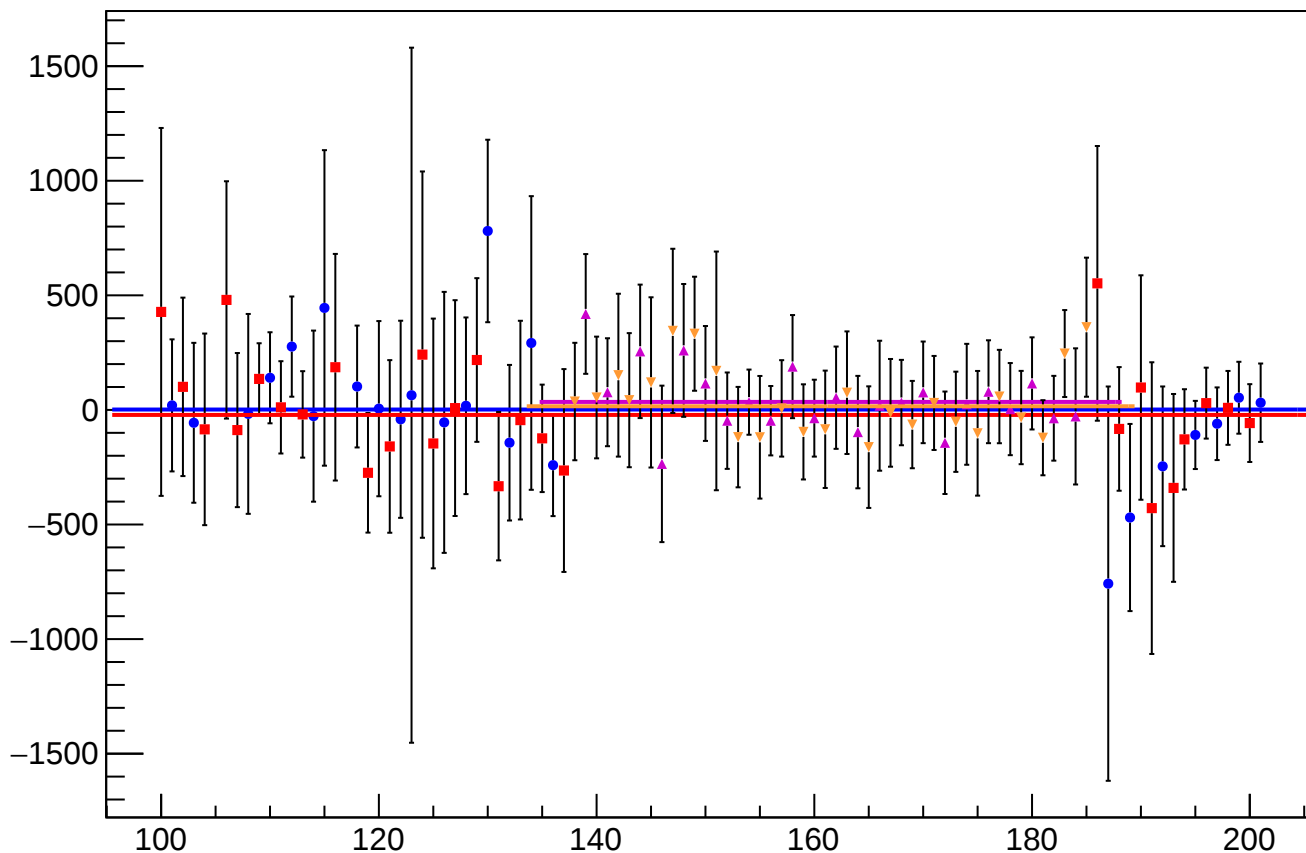
Right: 22.540 $\pm$ 0.003 χ^2 /NDF: 56139.9/51

In: 22.643 $\pm$ 0.003 χ^2 /NDF:45128.0/46

Out: 22.775 $\pm$ 0.003 χ^2 /NDF:43093.8/52

All: 22.711 $\pm$ 0.002 χ^2 /NDF: 89232.8/99

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 1.687 ± 54.984 $\chi^2/\text{NDF}: 11.6/23$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -21.812 ± 52.221 $\chi^2/\text{NDF}: 8.2/27$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

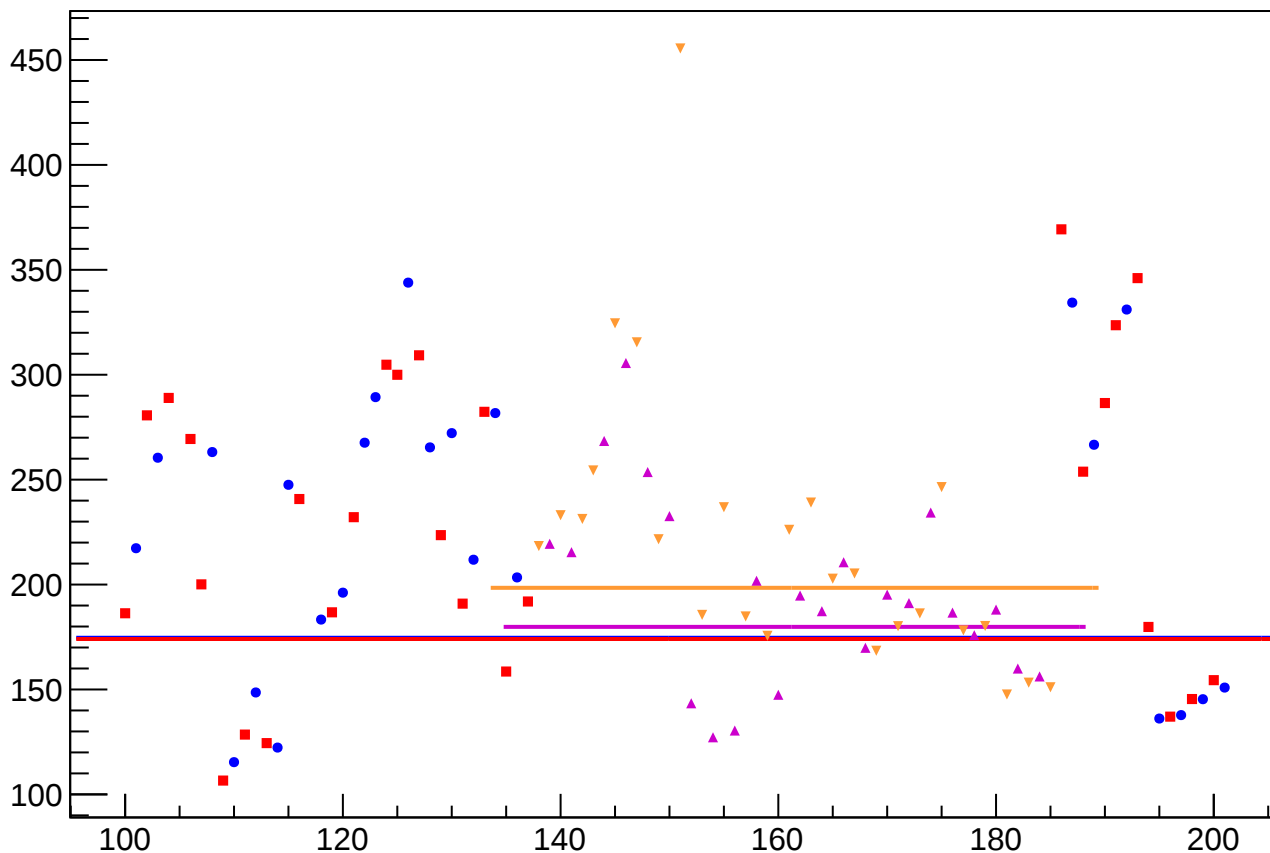
Right: -10.668 ± 37.865 $\chi^2/\text{NDF}: 19.9/51$

In: 21.599 ± 34.810 $\chi^2/\text{NDF}: 18.4/46$

Out: -1.329 ± 35.299 $\chi^2/\text{NDF}: 16.9/52$

All: 10.295 ± 24.785 $\chi^2/\text{NDF}: 35.5/99$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.642 $\pm$ 0.039 χ^2 /NDF: 2073716.2/23

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 174.057 $\pm$ 0.037 χ^2 /NDF: 2752796.7/27

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

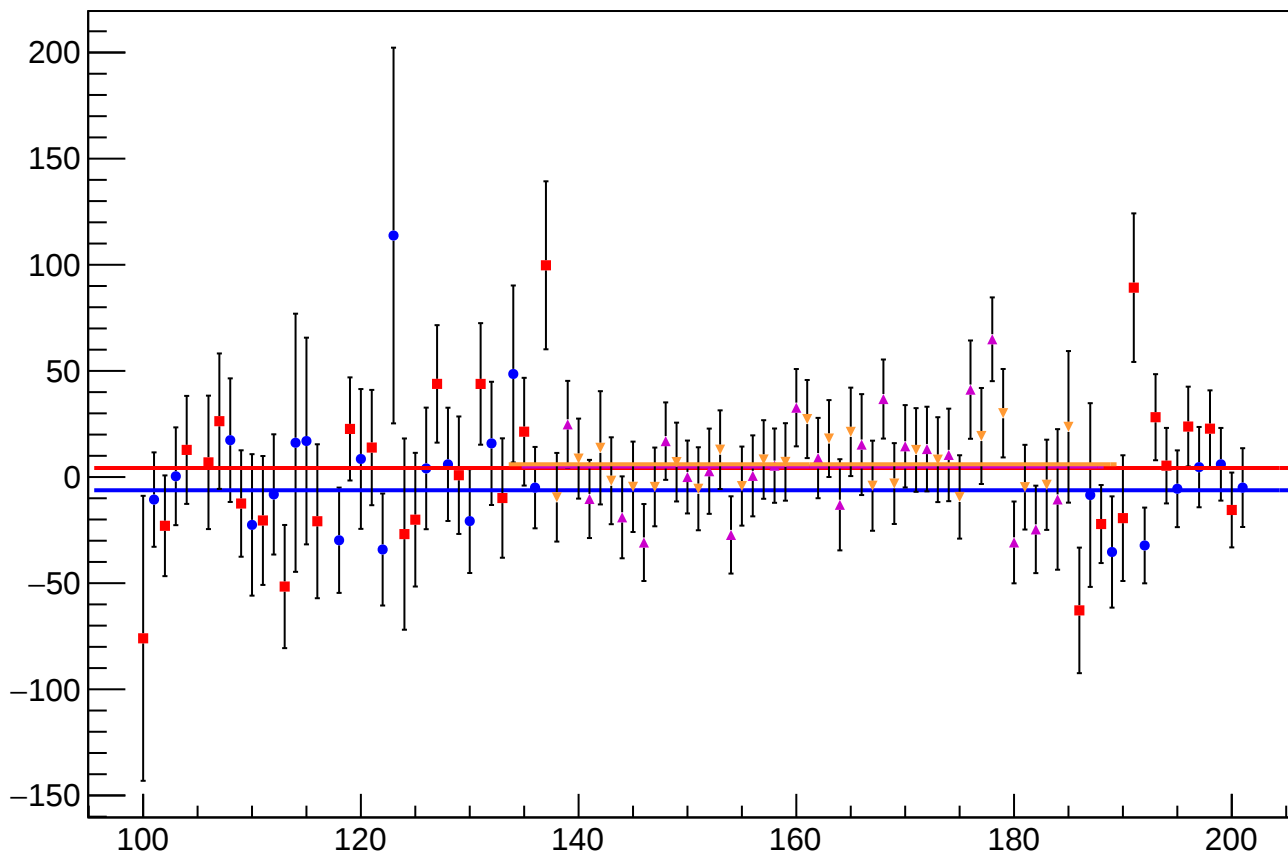
Right: 174.334 $\pm$ 0.027 χ^2 /NDF: 4826632.0/51

In: 177.756 $\pm$ 0.025 χ^2 /NDF:3673257.2/46

Out: 187.304 $\pm$ 0.025 χ^2 /NDF:4751232.8/52

All: 182.464 $\pm$ 0.018 χ^2 /NDF: 8498681.7/99

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.226 $\pm$ 5.122 χ^2 /NDF: 12.7/23

Left Out: 6.020 $\pm$ 4.017 χ^2 /NDF: 8.1/24

Right Out: 4.259 $\pm$ 4.835 χ^2 /NDF: 39.4/27

Left In: 4.943 $\pm$ 4.108 χ^2 /NDF: 34.8/22

Left: 5.494 $\pm$ 2.872 χ^2 /NDF: 43.0/47

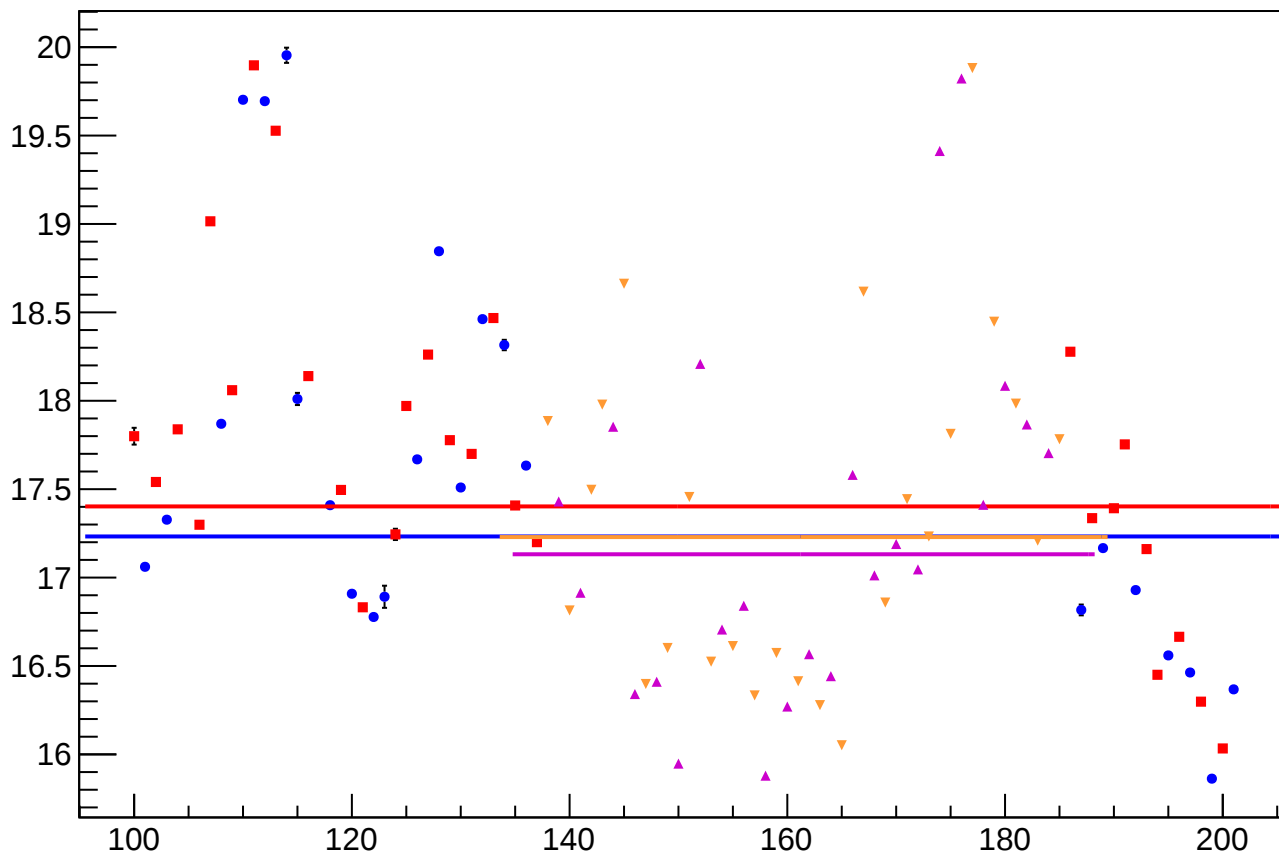
Right: -0.682 $\pm$ 3.516 χ^2 /NDF: 54.3/51

In: 0.572 $\pm$ 3.204 χ^2 /NDF: 50.4/46

Out: 5.301 $\pm$ 3.090 χ^2 /NDF: 47.7/52

All: 3.022 $\pm$ 2.224 χ^2 /NDF: 99.2/99

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.233 ± 0.004 $\chi^2/\text{NDF}: 70491.9/23$

Left Out: 17.229 ± 0.003 $\chi^2/\text{NDF}: 98624.7/24$

Right Out: 17.402 ± 0.003 $\chi^2/\text{NDF}: 69928.7/27$

Left In: 17.132 ± 0.003 $\chi^2/\text{NDF}: 103997.3/22$

Left: 17.182 ± 0.002 $\chi^2/\text{NDF}: 203195.4/47$

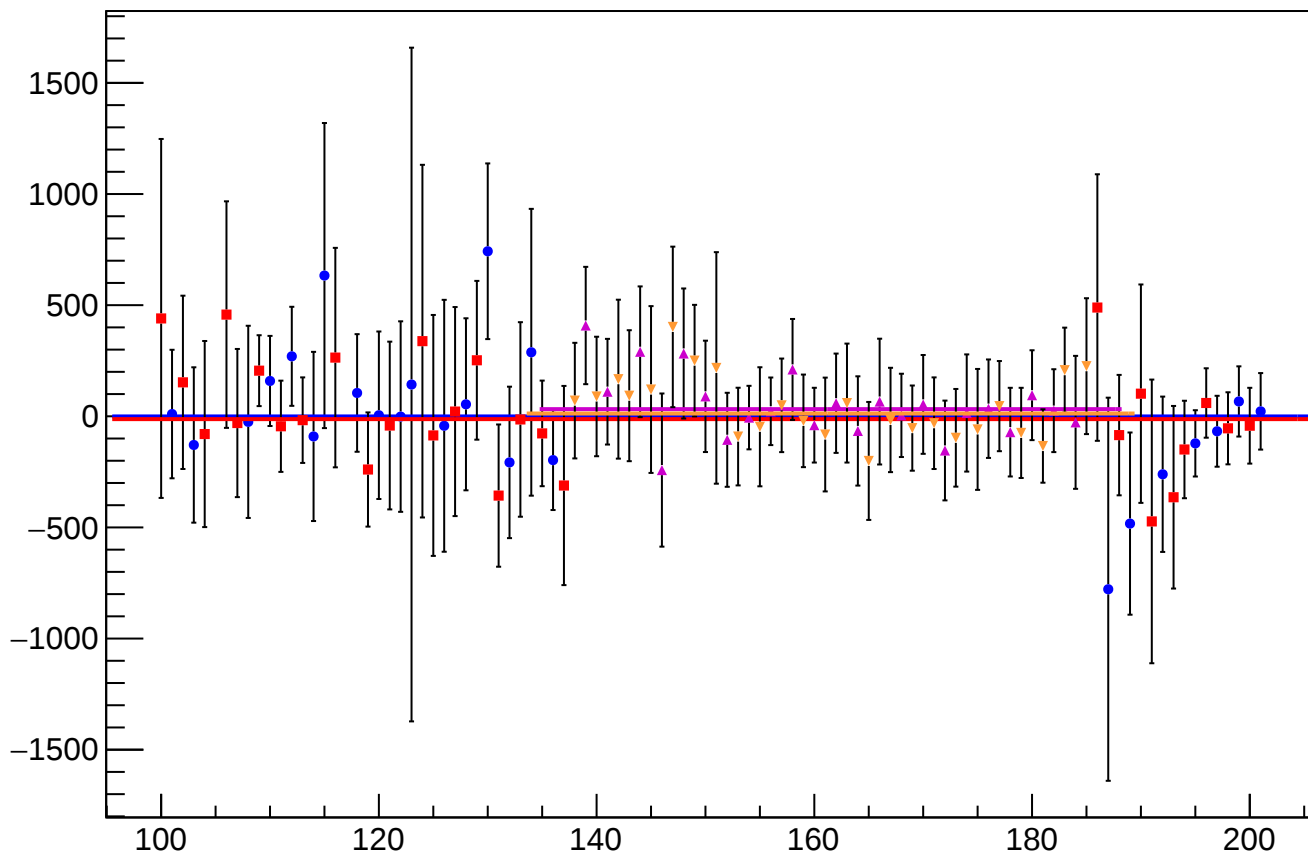
Right: 17.322 ± 0.002 $\chi^2/\text{NDF}: 141583.6/51$

In: 17.171 ± 0.002 $\chi^2/\text{NDF}: 174960.3/46$

Out: 17.300 ± 0.002 $\chi^2/\text{NDF}: 170074.1/52$

All: 17.238 ± 0.002 $\chi^2/\text{NDF}: 346704.5/99$

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -0.681 ± 55.315 χ^2/NDF : 12.0/23

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -12.724 ± 52.612 χ^2/NDF : 9.6/27

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

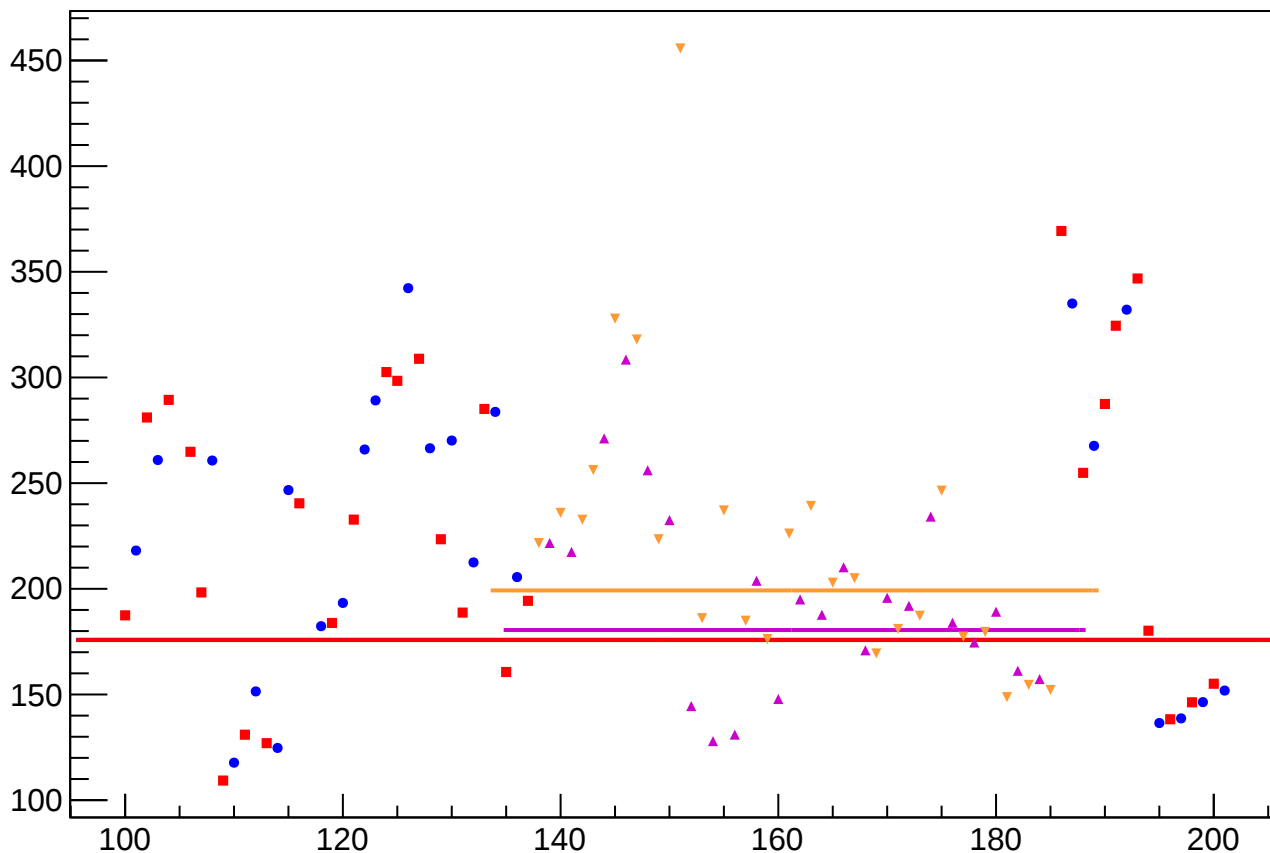
Right: -7.004 ± 38.122 χ^2/NDF : 21.6/51

In: 19.035 ± 34.969 χ^2/NDF : 19.2/46

Out: 1.005 ± 35.494 χ^2/NDF : 16.6/52

All: 10.155 ± 24.910 χ^2/NDF : 35.8/99

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.888 $\pm$ 0.039 χ^2 /NDF: 2023948.3/23

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 175.742 $\pm$ 0.037 χ^2 /NDF: 2656041.8/27

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

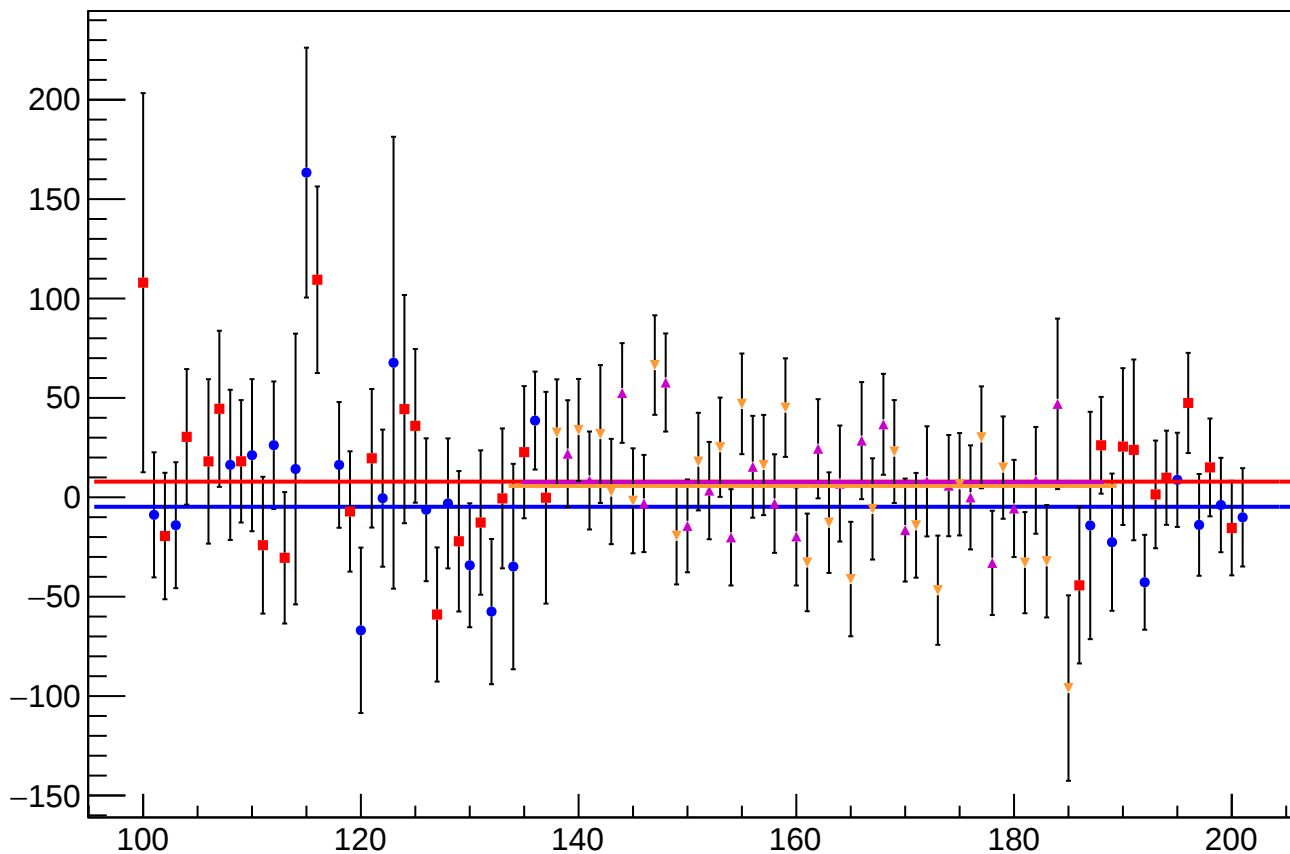
Right: 175.811 $\pm$ 0.027 χ^2 /NDF: 4679997.5/51

In: 178.653 $\pm$ 0.025 χ^2 /NDF:3626056.5/46

Out: 188.545 $\pm$ 0.025 χ^2 /NDF:4637542.6/52

All: 183.525 $\pm$ 0.018 χ^2 /NDF: 8342432.7/99

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.777 ± 6.674 $\chi^2/\text{NDF}: 21.9/23$

Left Out: 5.673 ± 5.278 $\chi^2/\text{NDF}: 36.4/24$

Right Out: 7.884 ± 6.268 $\chi^2/\text{NDF}: 23.0/27$

Left In: 7.594 ± 5.402 $\chi^2/\text{NDF}: 18.3/22$

Left: 6.611 ± 3.775 $\chi^2/\text{NDF}: 54.8/47$

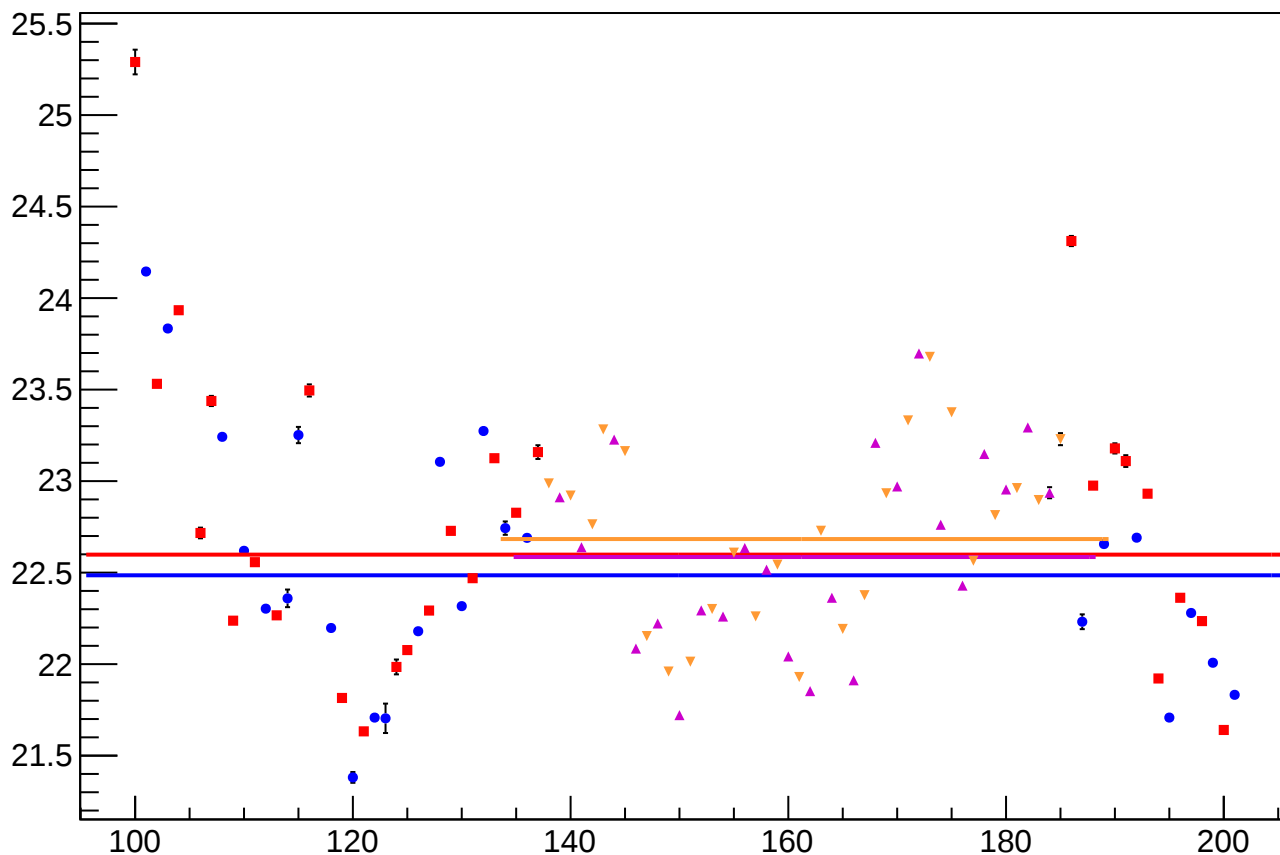
Right: 1.949 ± 4.569 $\chi^2/\text{NDF}: 46.8/51$

In: 2.697 ± 4.199 $\chi^2/\text{NDF}: 42.3/46$

Out: 6.590 ± 4.037 $\chi^2/\text{NDF}: 59.4/52$

All: 4.720 ± 2.910 $\chi^2/\text{NDF}: 102.2/99$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.485 $\pm$ 0.005 χ^2/NDF : 19833.9/23

Left Out: 22.683 $\pm$ 0.004 χ^2/NDF : 16318.1/24

Right Out: 22.598 $\pm$ 0.004 χ^2/NDF : 23727.0/27

Left In: 22.585 $\pm$ 0.004 χ^2/NDF : 18087.5/22

Left: 22.635 $\pm$ 0.003 χ^2/NDF : 34743.7/47

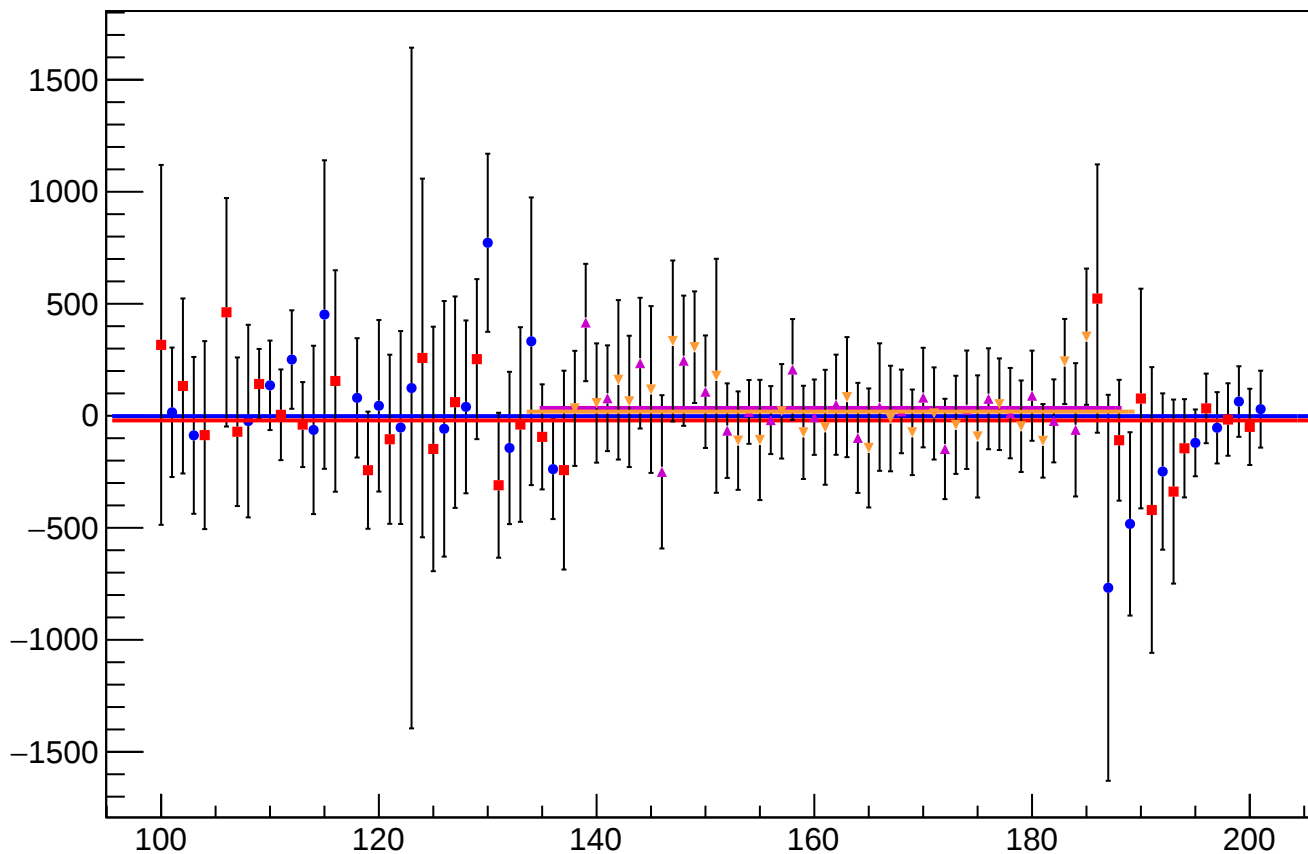
Right: 22.545 $\pm$ 0.003 χ^2/NDF : 43865.2/51

In: 22.546 $\pm$ 0.003 χ^2/NDF : 38192.2/46

Out: 22.648 $\pm$ 0.003 χ^2/NDF : 40261.0/52

All: 22.599 $\pm$ 0.002 χ^2/NDF : 79071.4/99

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -1.552 ± 55.148 χ^2/NDF : 11.5/23

Left Out: 18.633 ± 48.006 χ^2/NDF : 7.6/24

Right Out: -20.592 ± 52.347 χ^2/NDF : 7.7/27

Left In: 35.046 ± 45.063 χ^2/NDF : 6.3/22

Left: 27.358 ± 32.855 χ^2/NDF : 13.9/47

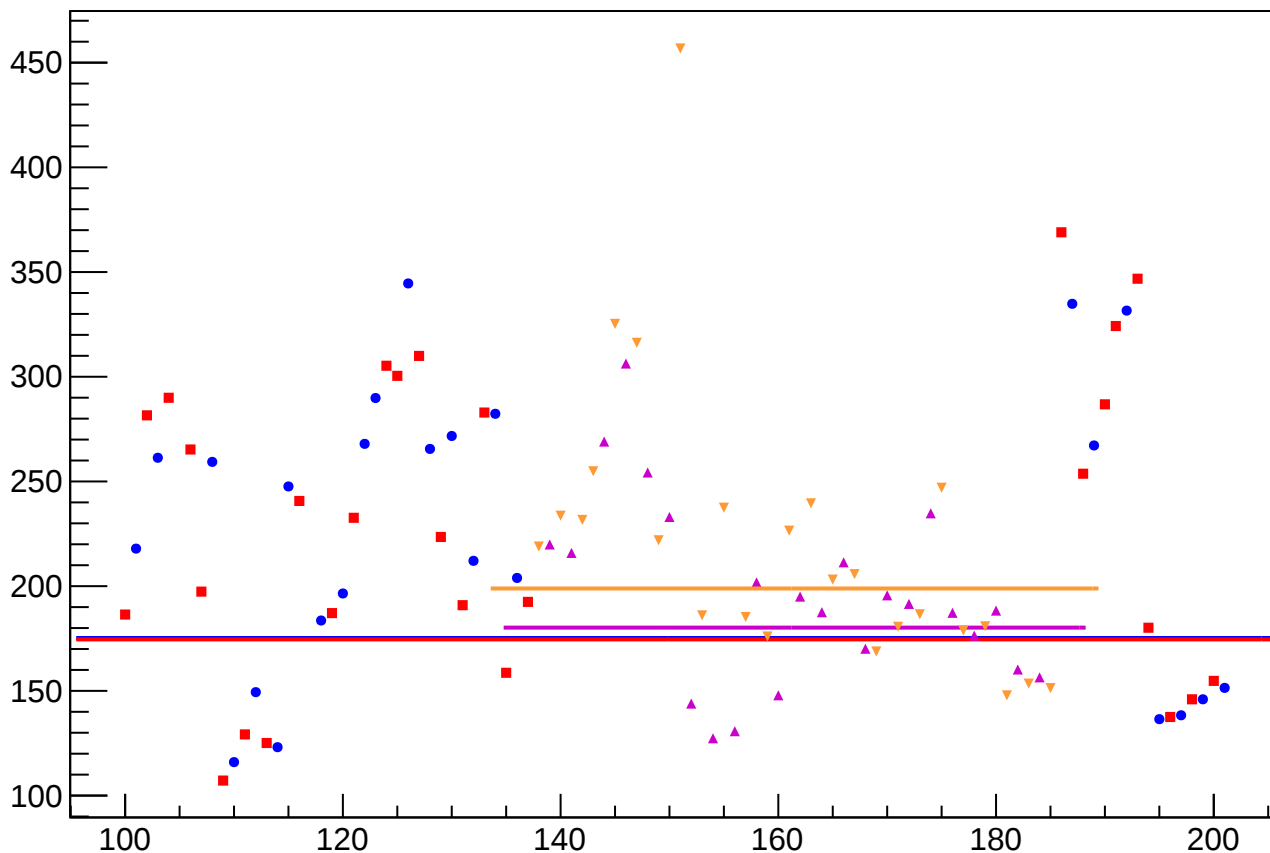
Right: -11.568 ± 37.967 χ^2/NDF : 19.2/51

In: 20.393 ± 34.895 χ^2/NDF : 18.0/46

Out: 0.714 ± 35.381 χ^2/NDF : 15.6/52

All: 10.690 ± 24.844 χ^2/NDF : 33.7/99

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.243 $\pm$ 0.039 χ^2 /NDF: 2054812.7/23

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 174.572 $\pm$ 0.037 χ^2 /NDF: 2727950.3/27

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

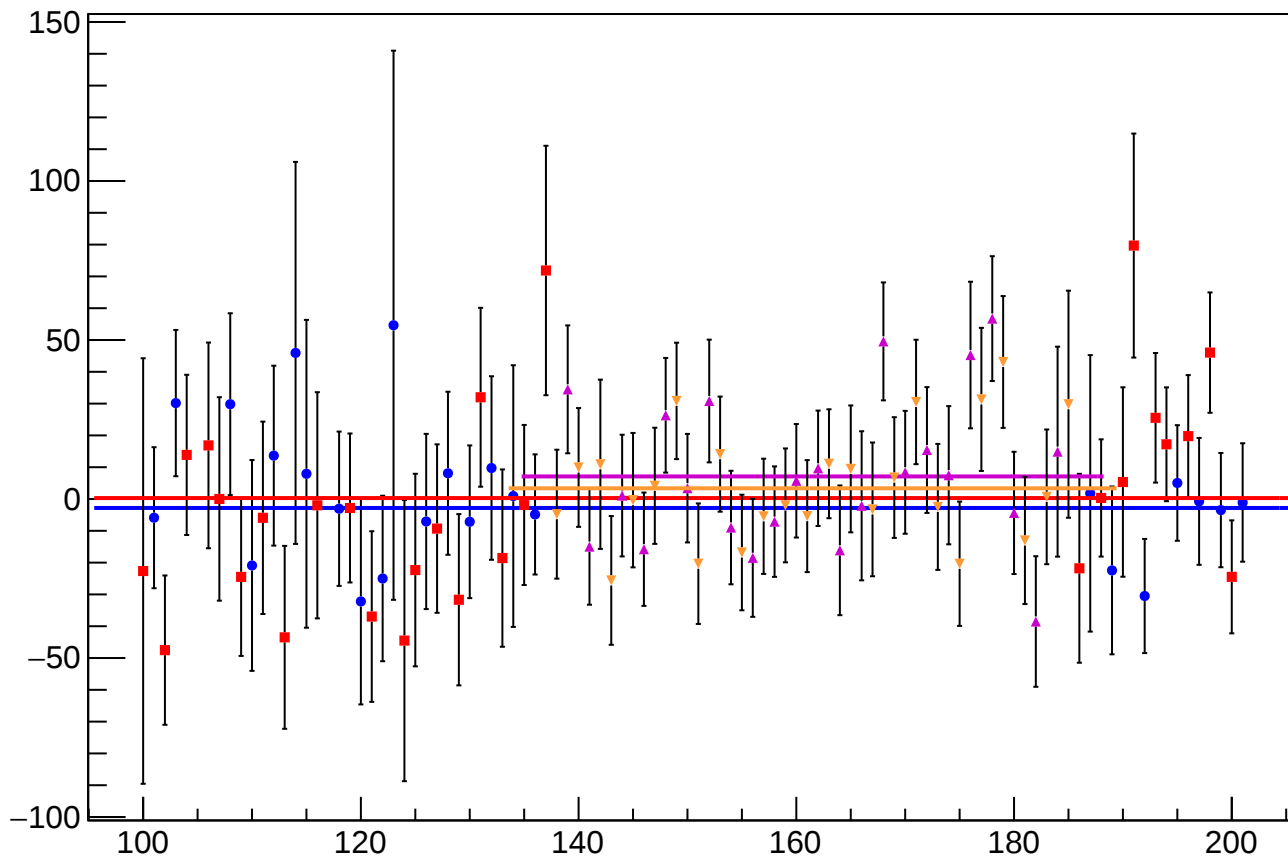
Right: 174.890 $\pm$ 0.027 χ^2 /NDF: 4782919.0/51

In: 178.220 $\pm$ 0.025 χ^2 /NDF:3653534.6/46

Out: 187.781 $\pm$ 0.025 χ^2 /NDF:4724865.6/52

All: 182.934 $\pm$ 0.018 χ^2 /NDF: 8452444.3/99

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.812 ± 5.128 χ^2/NDF : 10.3/23

Left Out: 3.372 ± 3.947 χ^2/NDF : 18.8/24

Right Out: 0.300 ± 4.829 χ^2/NDF : 35.2/27

Left In: 7.099 ± 4.047 χ^2/NDF : 32.5/22

Left: 5.189 ± 2.826 χ^2/NDF : 51.8/47

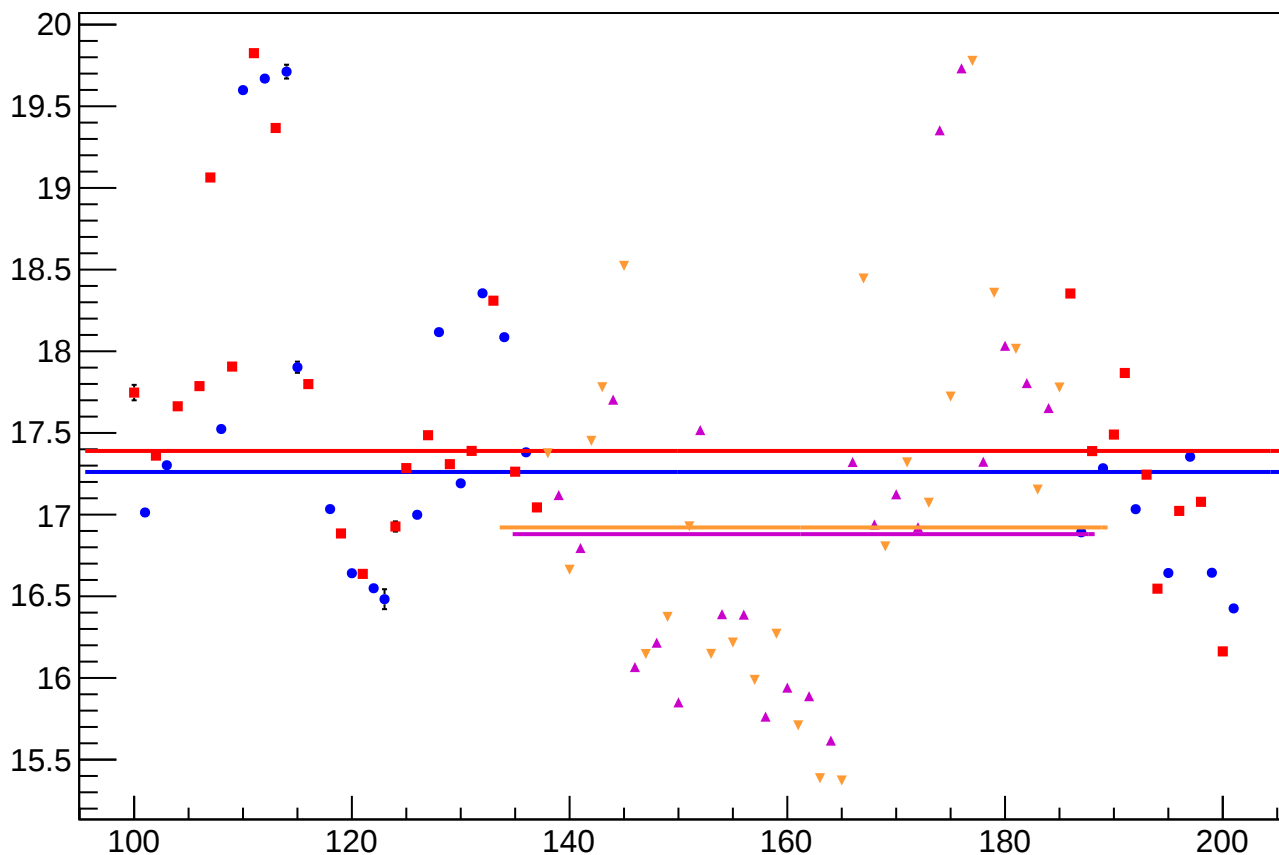
Right: -1.163 ± 3.516 χ^2/NDF : 45.7/51

In: 3.294 ± 3.177 χ^2/NDF : 45.1/46

Out: 2.142 ± 3.056 χ^2/NDF : 54.3/52

All: 2.696 ± 2.202 χ^2/NDF : 99.5/99

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.261 $\pm$ 0.004 χ^2 /NDF: 46521.5/23

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.390 $\pm$ 0.003 χ^2 /NDF: 52648.4/27

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

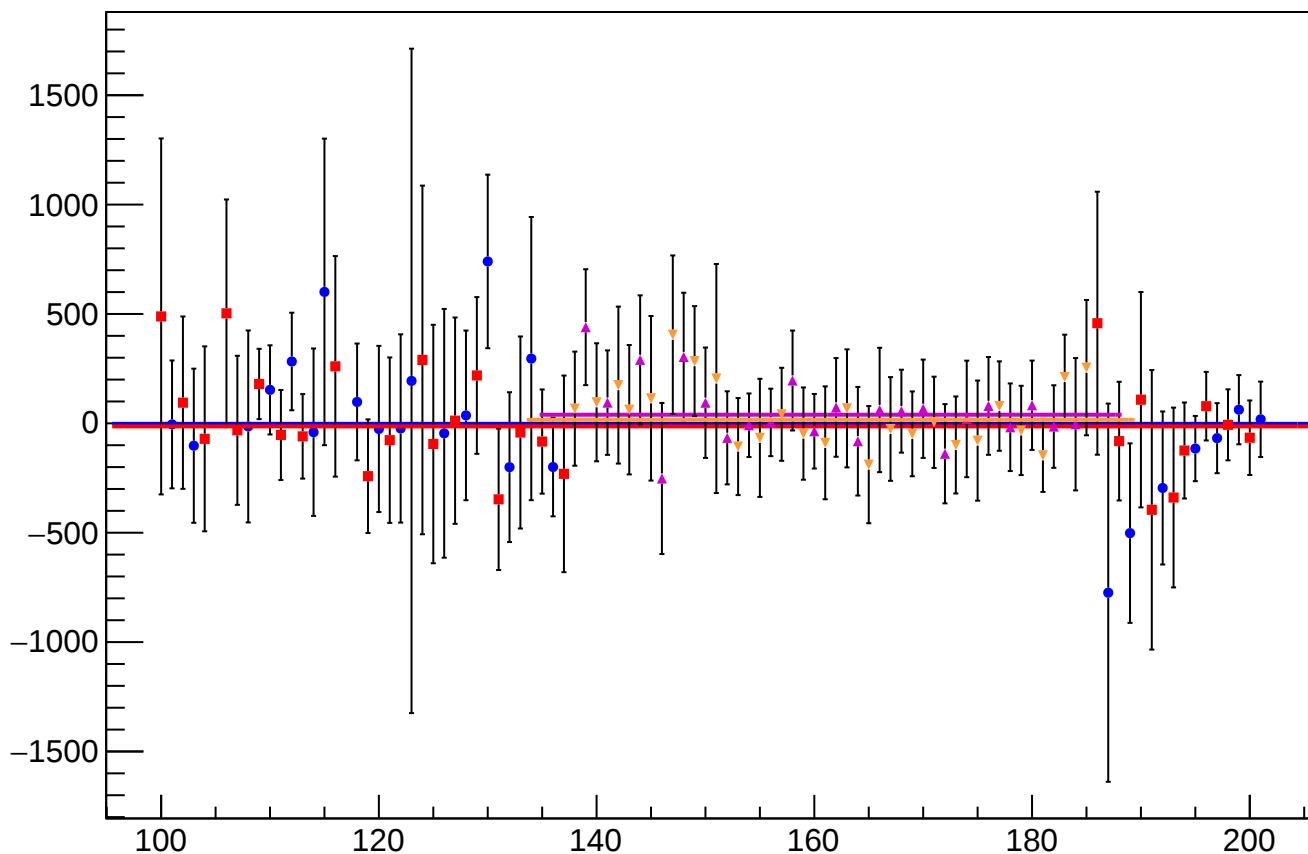
Right: 17.329 $\pm$ 0.002 χ^2 /NDF: 99837.4/51

In: 17.027 $\pm$ 0.002 χ^2 /NDF:175049.7/46

Out: 17.109 $\pm$ 0.002 χ^2 /NDF:202917.0/52

All: 17.069 $\pm$ 0.002 χ^2 /NDF: 378666.3/99

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -2.304 ± 55.517 $\chi^2/\text{NDF}: 11.9/23$

Left Out: 15.970 ± 48.503 $\chi^2/\text{NDF}: 7.4/24$

Right Out: -13.920 ± 52.842 $\chi^2/\text{NDF}: 8.5/27$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

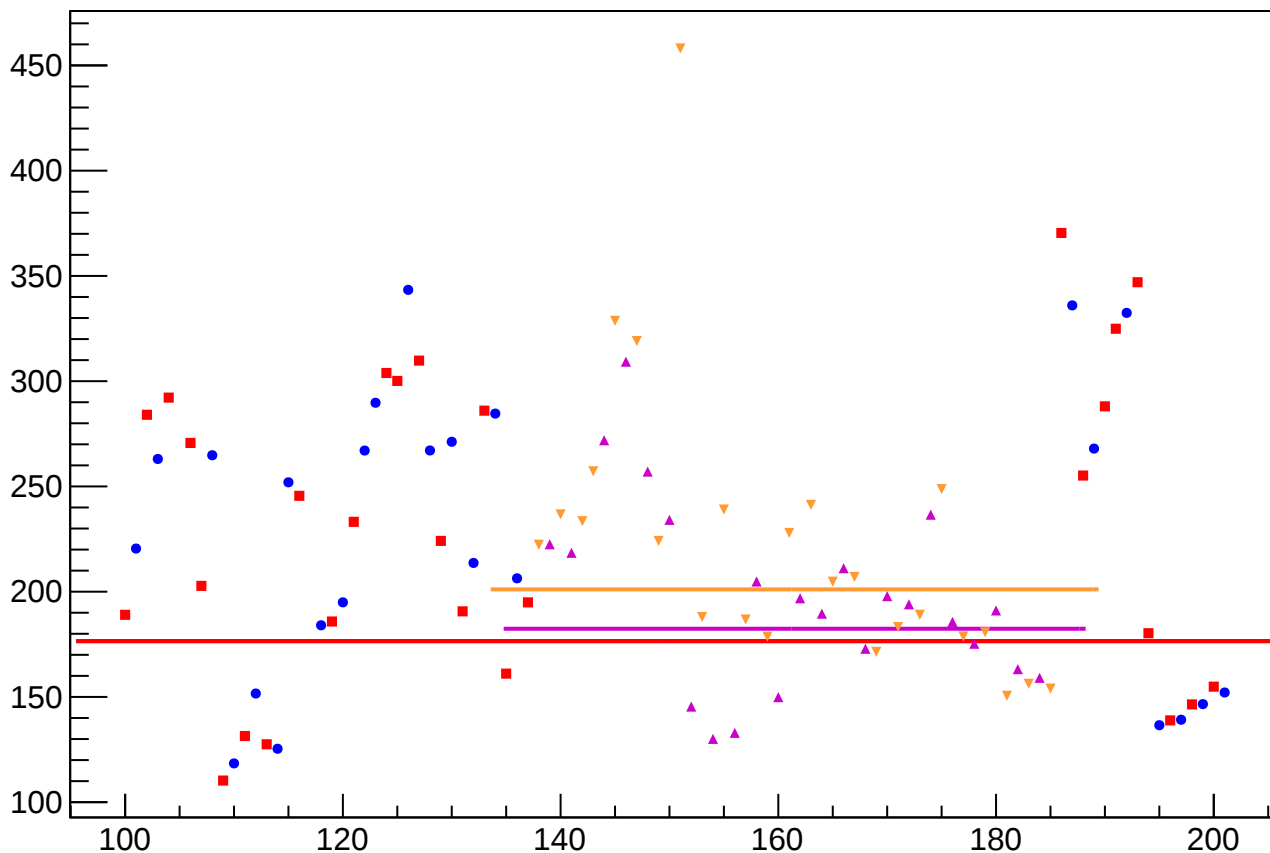
Right: -8.399 ± 38.276 $\chi^2/\text{NDF}: 20.5/51$

In: 22.598 ± 35.224 $\chi^2/\text{NDF}: 19.2/46$

Out: 2.302 ± 35.733 $\chi^2/\text{NDF}: 16.0/52$

All: 12.595 ± 25.085 $\chi^2/\text{NDF}: 35.4/99$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.489 $\pm$ 0.039 χ^2 /NDF: 2037320.5/23

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 176.523 $\pm$ 0.037 χ^2 /NDF: 2663029.9/27

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

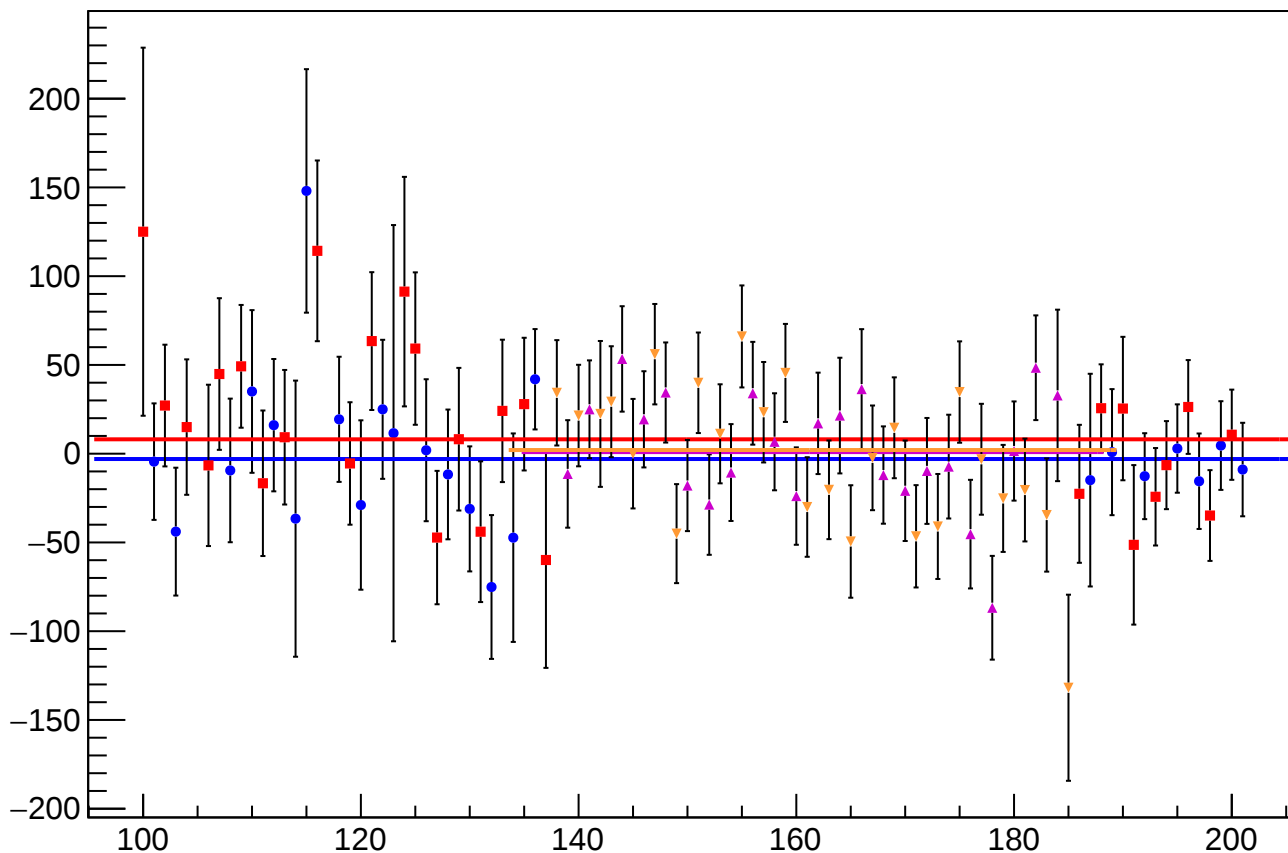
Right: 176.507 $\pm$ 0.027 χ^2 /NDF: 4700350.8/51

In: 180.018 $\pm$ 0.025 χ^2 /NDF:3599754.6/46

Out: 189.857 $\pm$ 0.025 χ^2 /NDF:4628746.2/52

All: 184.867 $\pm$ 0.018 χ^2 /NDF: 8305398.7/99

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.004 ± 7.254 χ^2/NDF : 16.1/23

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 8.096 ± 6.757 χ^2/NDF : 27.5/27

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

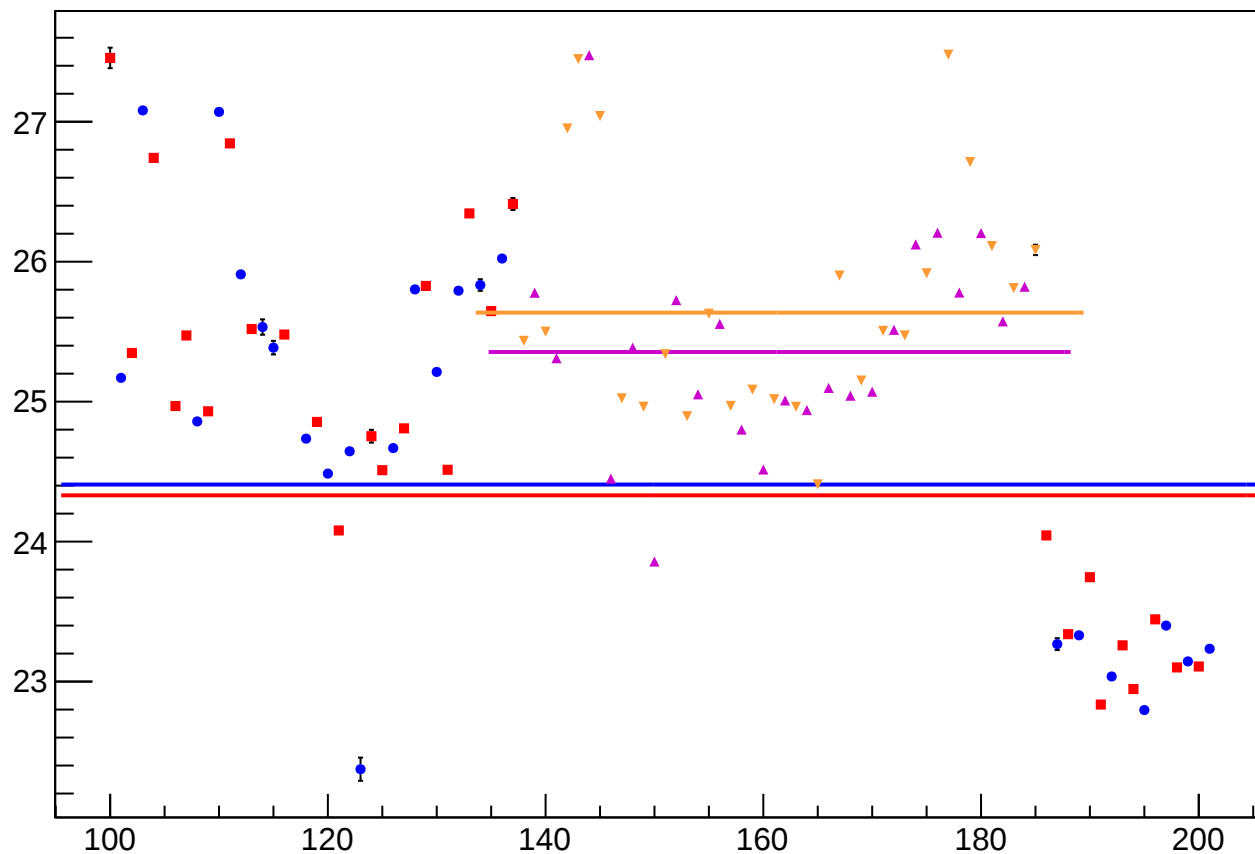
Right: 2.940 ± 4.944 χ^2/NDF : 44.9/51

In: -0.708 ± 4.655 χ^2/NDF : 43.4/46

Out: 4.703 ± 4.474 χ^2/NDF : 67.4/52

All: 2.105 ± 3.226 χ^2/NDF : 111.5/99

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.408 $\pm$ 0.005 χ^2 /NDF: 67367.8/23

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF: 35130.7/24

Right Out: 24.331 $\pm$ 0.005 χ^2 /NDF: 64925.7/27

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

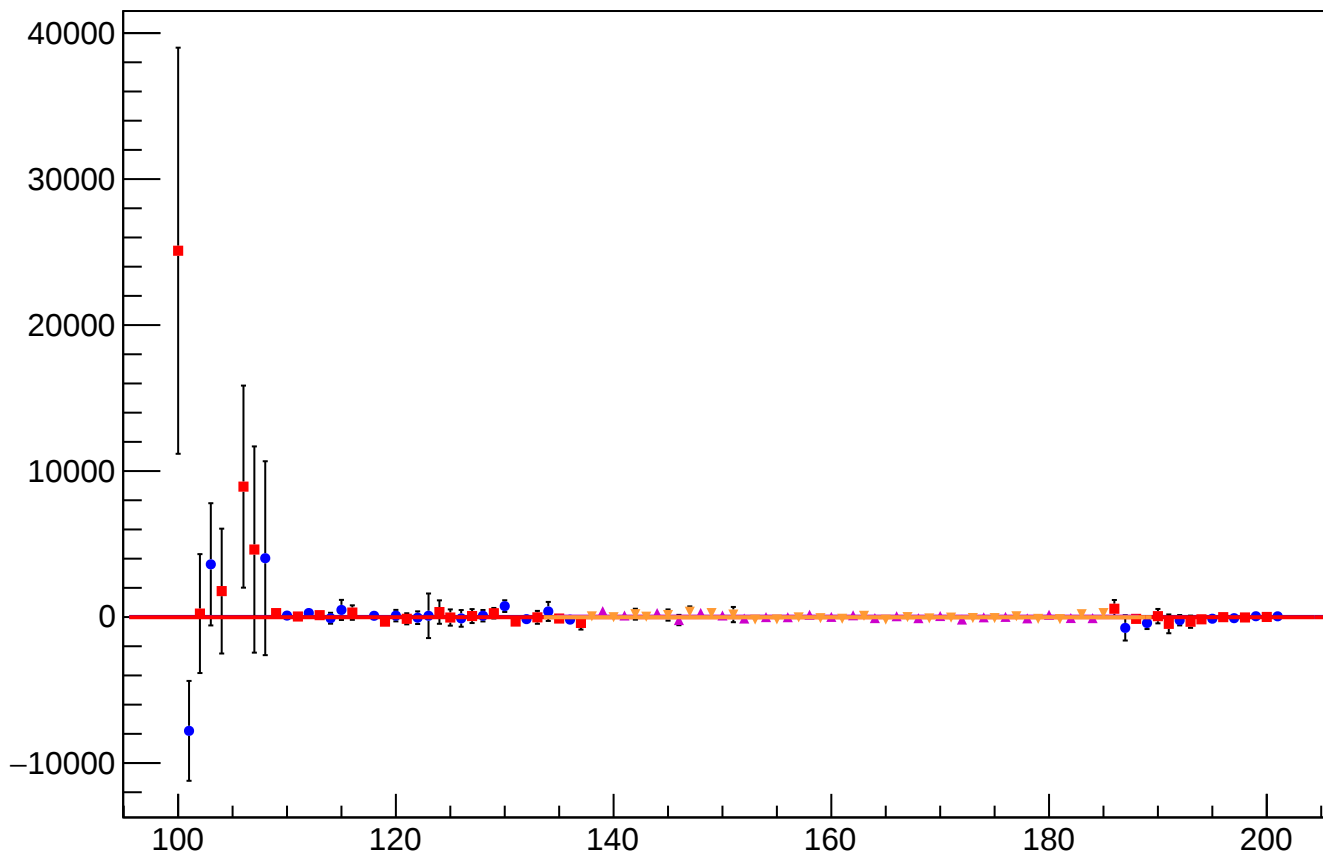
Right: 24.367 $\pm$ 0.003 χ^2 /NDF: 132414.3/51

In: 24.965 $\pm$ 0.003 χ^2 /NDF: 117180.9/46

Out: 25.064 $\pm$ 0.003 χ^2 /NDF: 141976.8/52

All: 25.016 $\pm$ 0.002 χ^2 /NDF: 259627.7/99

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 7.655+/-58.748 χ^2/NDF : 16.6/23

Left Out: -12.820+/-48.216 χ^2/NDF : 7.9/24

Right Out: -12.634+/-57.077 χ^2/NDF : 14.7/27

Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47

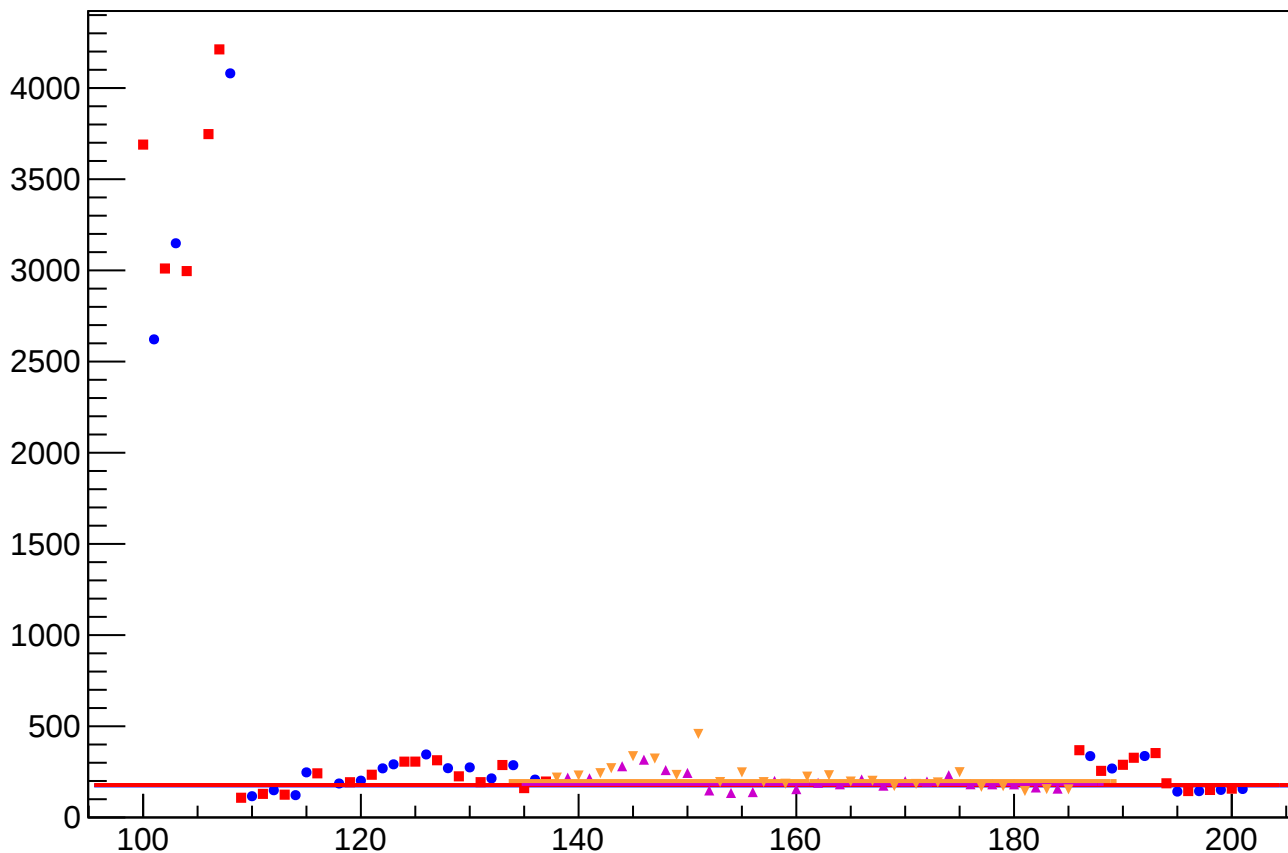
Right: -2.782+/-40.937 χ^2/NDF : 31.4/51

In: 19.570+/-36.158 χ^2/NDF : 24.1/46

Out: -12.742+/-36.833 χ^2/NDF : 22.6/52

All: 3.713+/-25.803 χ^2/NDF : 47.1/99

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.623+/-0.042 χ^2/NDF : 4462818.6/23

Left Out: 199.536+/-0.034 χ^2/NDF :1880548.8/24

Right Out: 177.841+/-0.040 χ^2/NDF : 5299551.5/27

Left In: 184.031+/-0.032 χ^2/NDF :1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

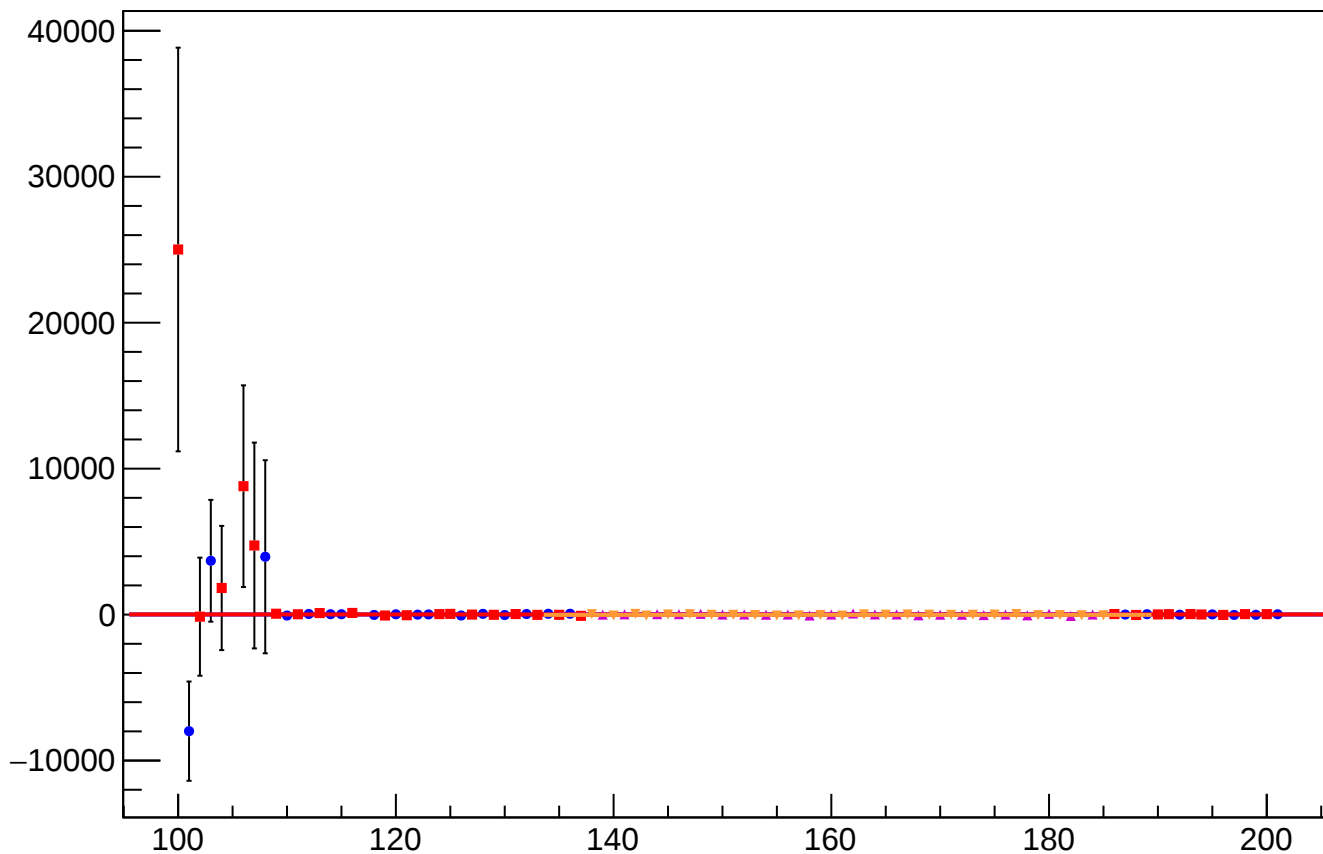
Right: 176.764+/-0.029 χ^2/NDF : 9763836.3/51

In: 180.846+/-0.026 χ^2/NDF :5911722.6/46

Out: 190.501+/-0.026 χ^2/NDF :7348716.7/52

All: 185.584+/-0.018 χ^2/NDF : 13330416.3/99

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.598 $\pm$ 8.811 χ^2 /NDF: 21.2/23

Left Out: -17.580 $\pm$ 6.694 χ^2 /NDF:22.3/24

Right Out: 12.586 $\pm$ 8.365 χ^2 /NDF: 29.0/27

Left In: 1.038 $\pm$ 6.880 χ^2 /NDF:32.4/22

Left: -8.527 $\pm$ 4.798 χ^2 /NDF: 58.5/47

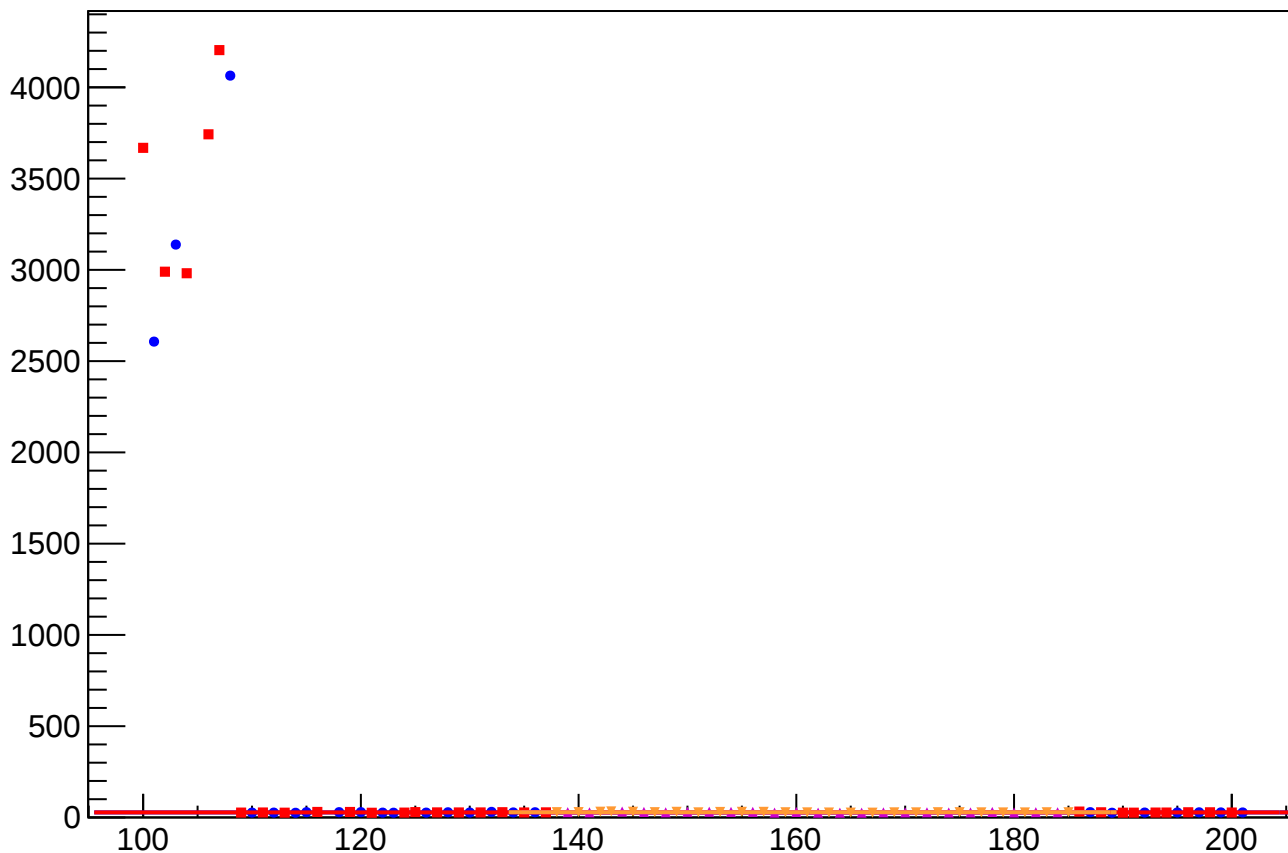
Right: 9.747 $\pm$ 6.067 χ^2 /NDF: 50.5/51

In: 3.144 $\pm$ 5.423 χ^2 /NDF:53.9/46

Out: -5.805 $\pm$ 5.226 χ^2 /NDF:59.3/52

All: -1.496 $\pm$ 3.763 χ^2 /NDF: 114.6/99

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.630 $\pm$ 0.006 χ^2 /NDF: 3034896.8/23

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF:110483.8/24

Right Out: 27.674 $\pm$ 0.006 χ^2 /NDF: 3502175.6/27

Left In: 28.673 $\pm$ 0.005 χ^2 /NDF:124751.4/22

Left: 28.682 $\pm$ 0.003 χ^2 /NDF: 235242.3/47

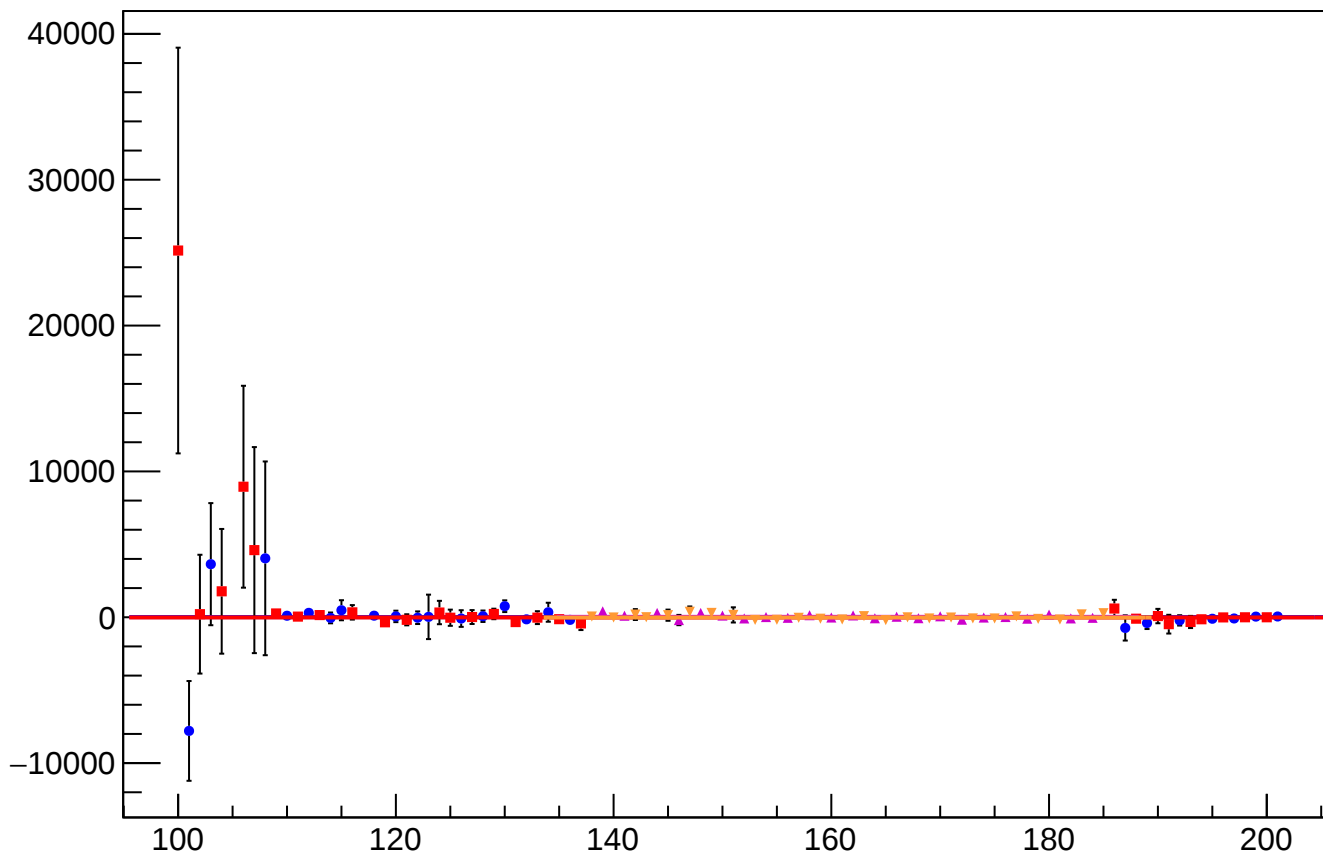
Right: 27.653 $\pm$ 0.004 χ^2 /NDF: 6537098.3/51

In: 28.278 $\pm$ 0.004 χ^2 /NDF:3177034.3/46

Out: 28.294 $\pm$ 0.004 χ^2 /NDF:3630664.7/52

All: 28.286 $\pm$ 0.003 χ^2 /NDF: 6807708.0/99

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 10.290+/-58.562 χ^2/NDF : 16.7/23

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: -13.244+/-56.916 χ^2/NDF : 15.4/27

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

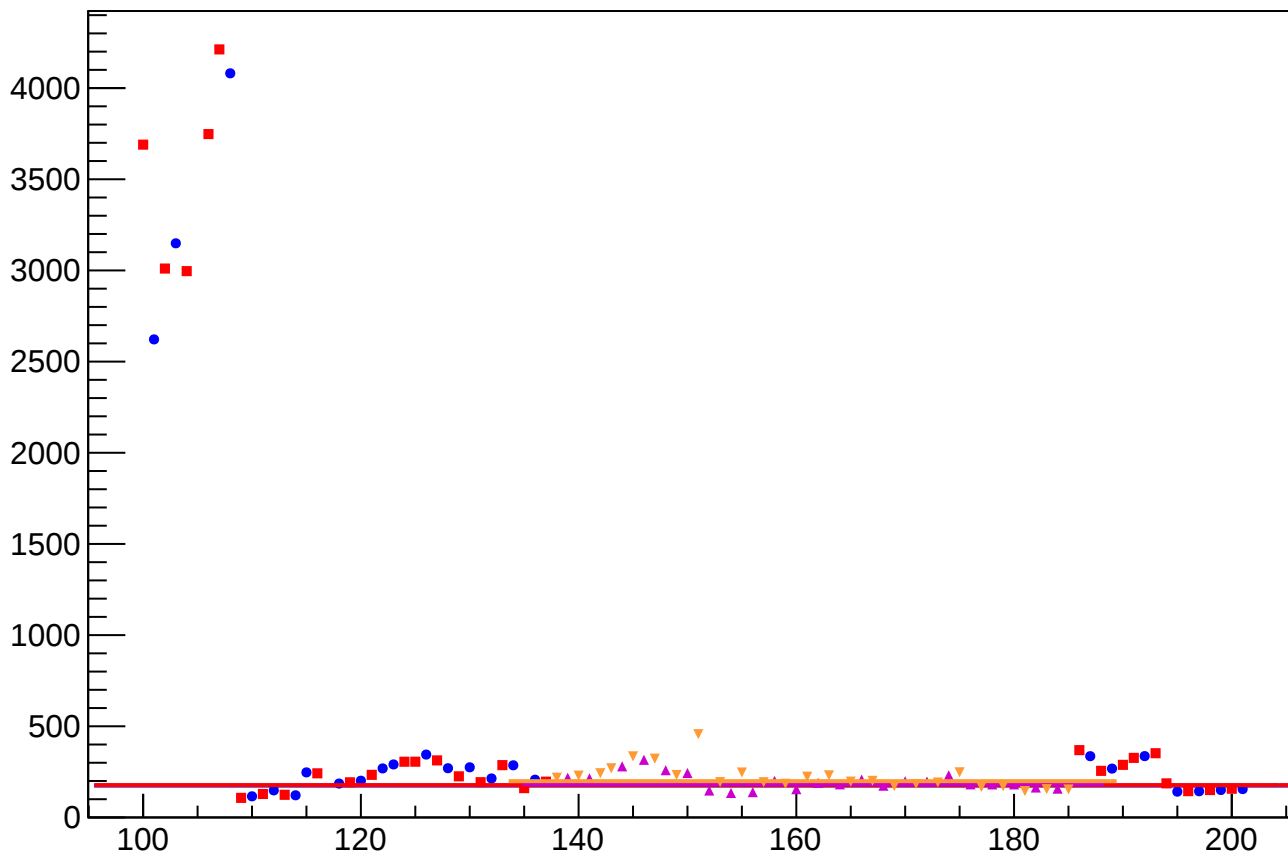
Right: -1.812+/-40.815 χ^2/NDF : 32.2/51

In: 20.667+/-36.070 χ^2/NDF : 24.6/46

Out: -14.550+/-36.742 χ^2/NDF : 24.1/52

All: 3.384+/-25.739 χ^2/NDF : 49.1/99

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.004 $\pm$ 0.041 χ^2 /NDF: 4476361.2/23

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 177.266 $\pm$ 0.040 χ^2 /NDF: 5317052.3/27

Left In: 183.667 $\pm$ 0.032 χ^2 /NDF:1422895.7/22

Left: 190.999 $\pm$ 0.023 χ^2 /NDF: 3411149.8/47

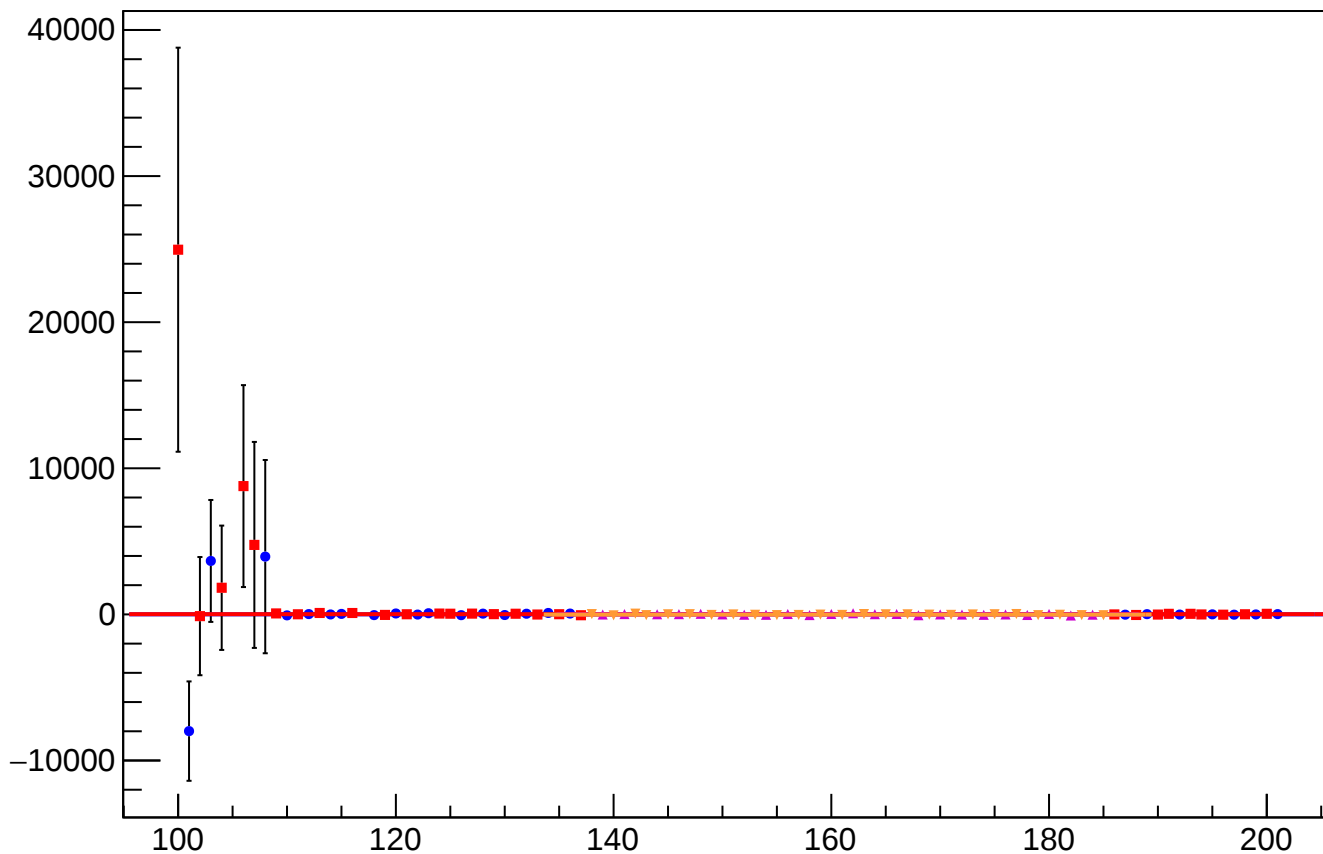
Right: 176.167 $\pm$ 0.029 χ^2 /NDF: 9794946.8/51

In: 180.381 $\pm$ 0.026 χ^2 /NDF:5926418.2/46

Out: 189.997 $\pm$ 0.026 χ^2 /NDF:7368975.6/52

All: 185.100 $\pm$ 0.018 χ^2 /NDF: 13365161.5/99

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.838 ± 8.816 χ^2/NDF : 24.2/23

Left Out: -15.006 ± 6.723 χ^2/NDF : 17.5/24

Right Out: 15.598 ± 8.376 χ^2/NDF : 24.5/27

Left In: -0.702 ± 6.909 χ^2/NDF : 26.4/22

Left: -8.049 ± 4.819 χ^2/NDF : 46.0/47

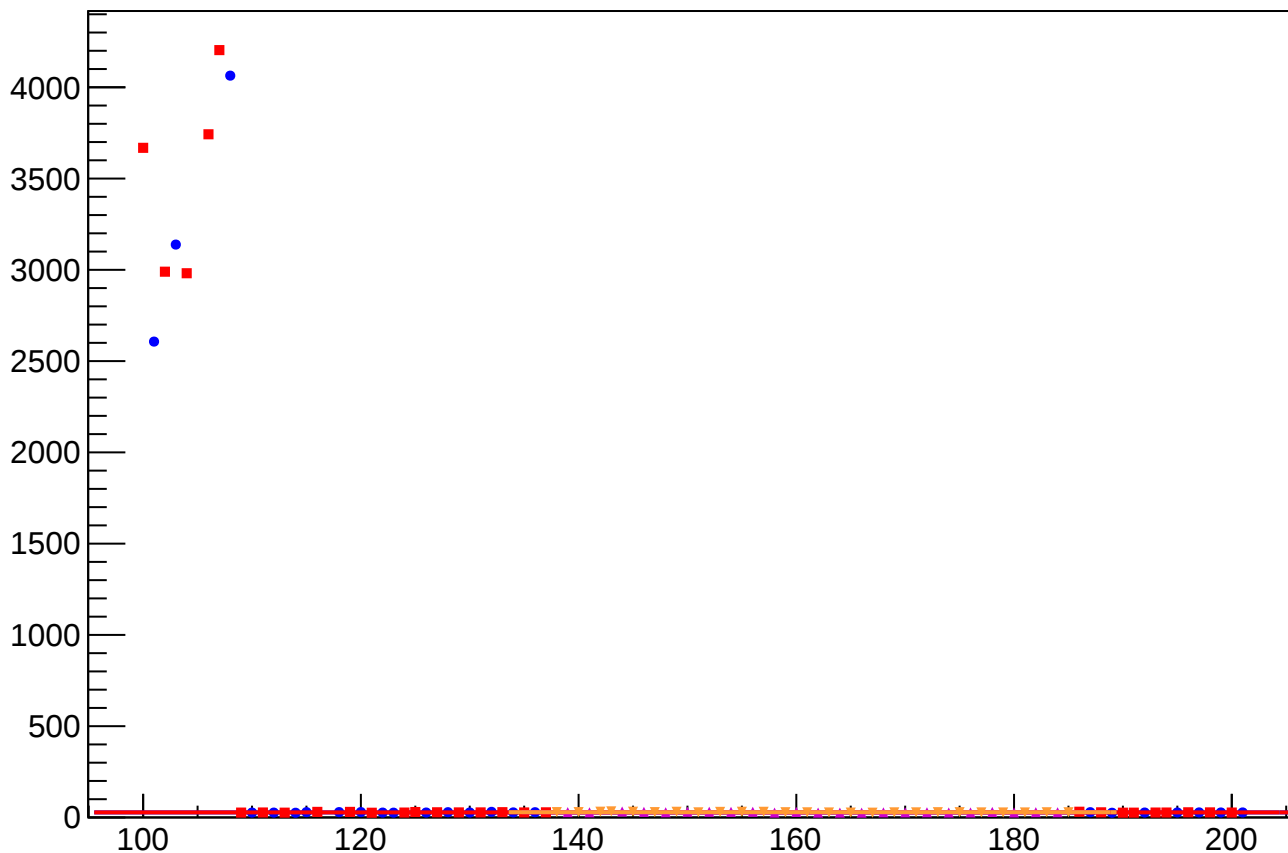
Right: 10.019 ± 6.072 χ^2/NDF : 49.7/51

In: 1.025 ± 5.438 χ^2/NDF : 50.7/46

Out: -3.013 ± 5.243 χ^2/NDF : 50.1/52

All: -1.068 ± 3.774 χ^2/NDF : 101.1/99

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.641 $\pm$ 0.006 χ^2 /NDF: 3037186.4/23

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.708 $\pm$ 0.006 χ^2 /NDF: 3499738.9/27

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

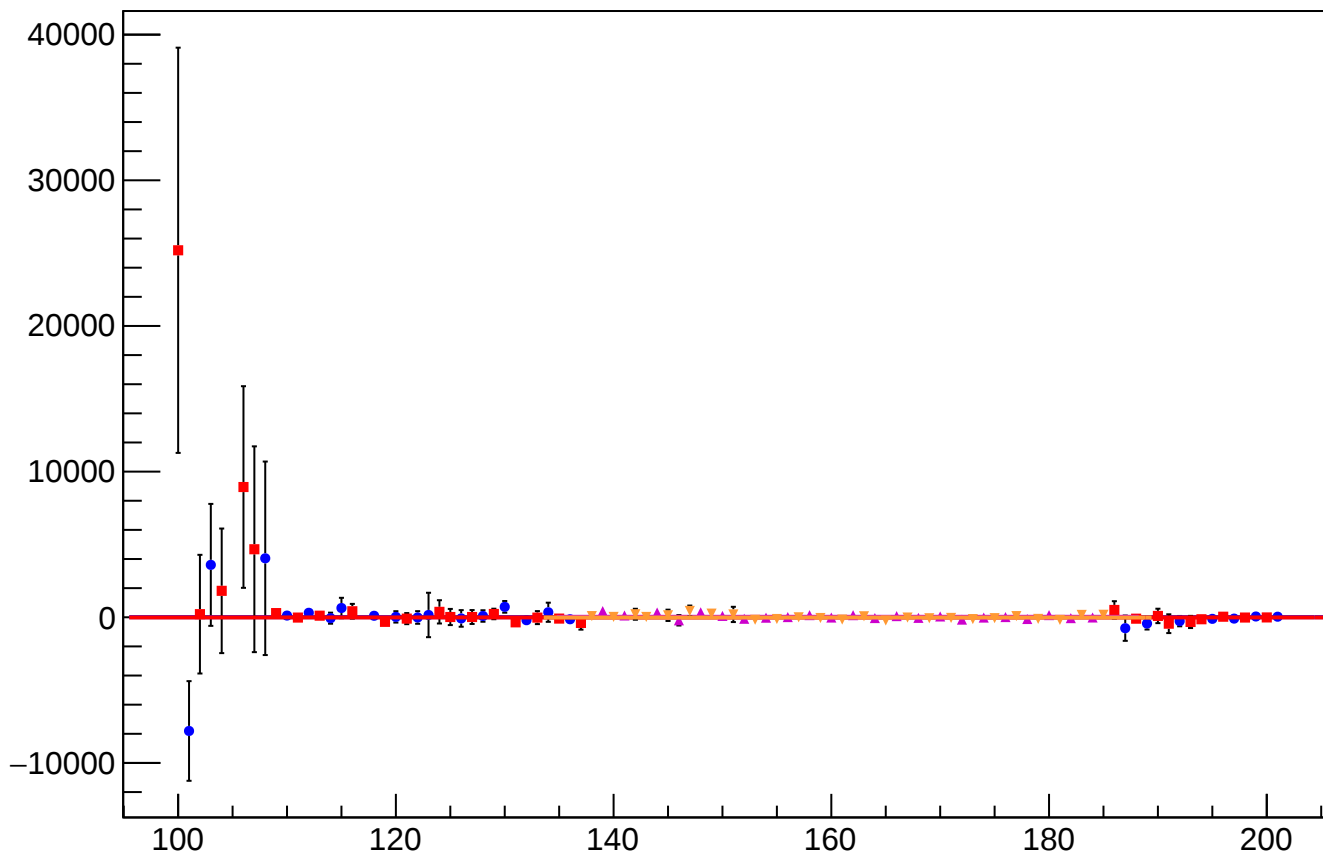
Right: 27.676 $\pm$ 0.004 χ^2 /NDF: 6536986.4/51

In: 28.354 $\pm$ 0.004 χ^2 /NDF: 3187718.2/46

Out: 28.380 $\pm$ 0.004 χ^2 /NDF: 3642864.6/52

All: 28.368 $\pm$ 0.003 χ^2 /NDF: 6830605.7/99

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 8.063+/-59.018 χ^2/NDF : 17.1/23

Left Out: -15.548+/-48.688 χ^2/NDF : 8.0/24

Right Out: -11.091+/-57.409 χ^2/NDF : 14.6/27

Left In: 31.170+/-46.359 χ^2/NDF : 8.2/22

Left: 8.955+/-33.574 χ^2/NDF : 16.6/47

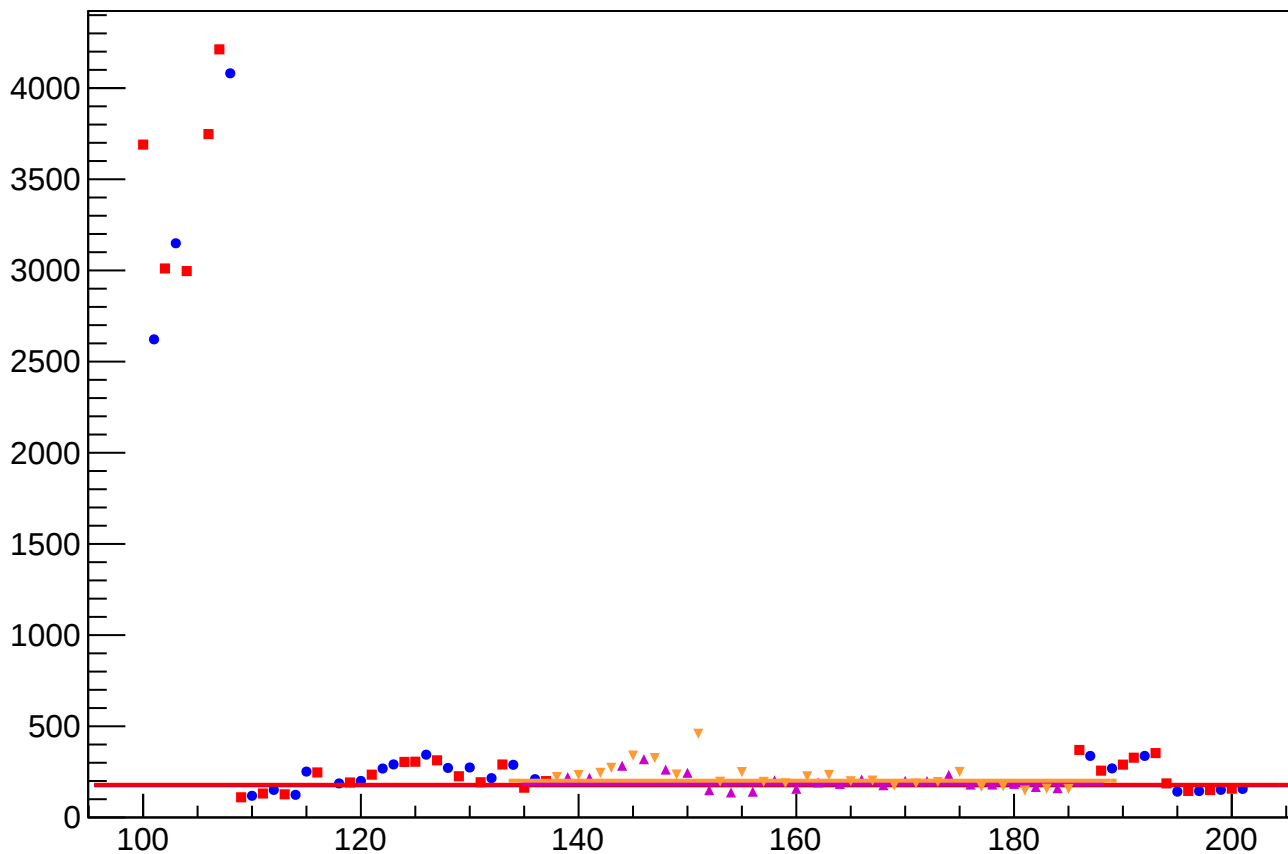
Right: -1.778+/-41.152 χ^2/NDF : 31.8/51

In: 22.353+/-36.457 χ^2/NDF : 25.4/46

Out: -13.683+/-37.132 χ^2/NDF : 22.6/52

All: 4.666+/-26.014 χ^2/NDF : 48.5/99

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.523+/-0.042 χ^2/NDF : 4442560.3/23

Left Out: 201.600+/-0.034 χ^2/NDF : 1857453.2/24

Right Out: 179.116+/-0.041 χ^2/NDF : 5253103.6/27

Left In: 186.107+/-0.033 χ^2/NDF : 1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

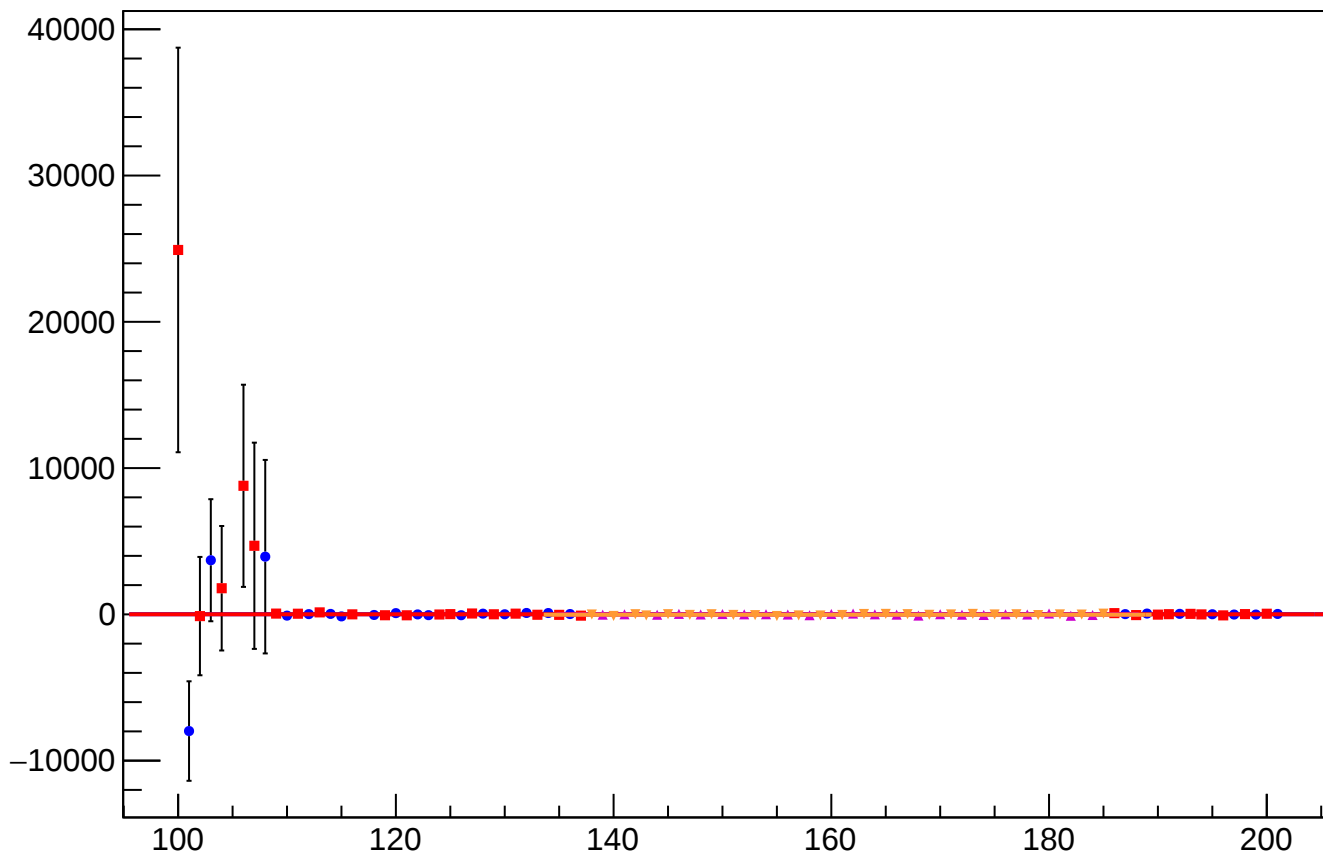
Right: 177.855+/-0.029 χ^2/NDF : 9697646.2/51

In: 182.450+/-0.026 χ^2/NDF : 5866500.5/46

Out: 192.194+/-0.026 χ^2/NDF : 7288997.9/52

All: 187.232+/-0.018 χ^2/NDF : 13225615.9/99

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.072 ± 10.743 $\chi^2/\text{NDF}: 22.6/23$

Left Out: -23.360 ± 8.064 $\chi^2/\text{NDF}: 25.8/24$

Right Out: 6.085 ± 10.195 $\chi^2/\text{NDF}: 31.3/27$

Left In: -6.001 ± 8.309 $\chi^2/\text{NDF}: 21.1/22$

Left: -14.939 ± 5.787 $\chi^2/\text{NDF}: 49.2/47$

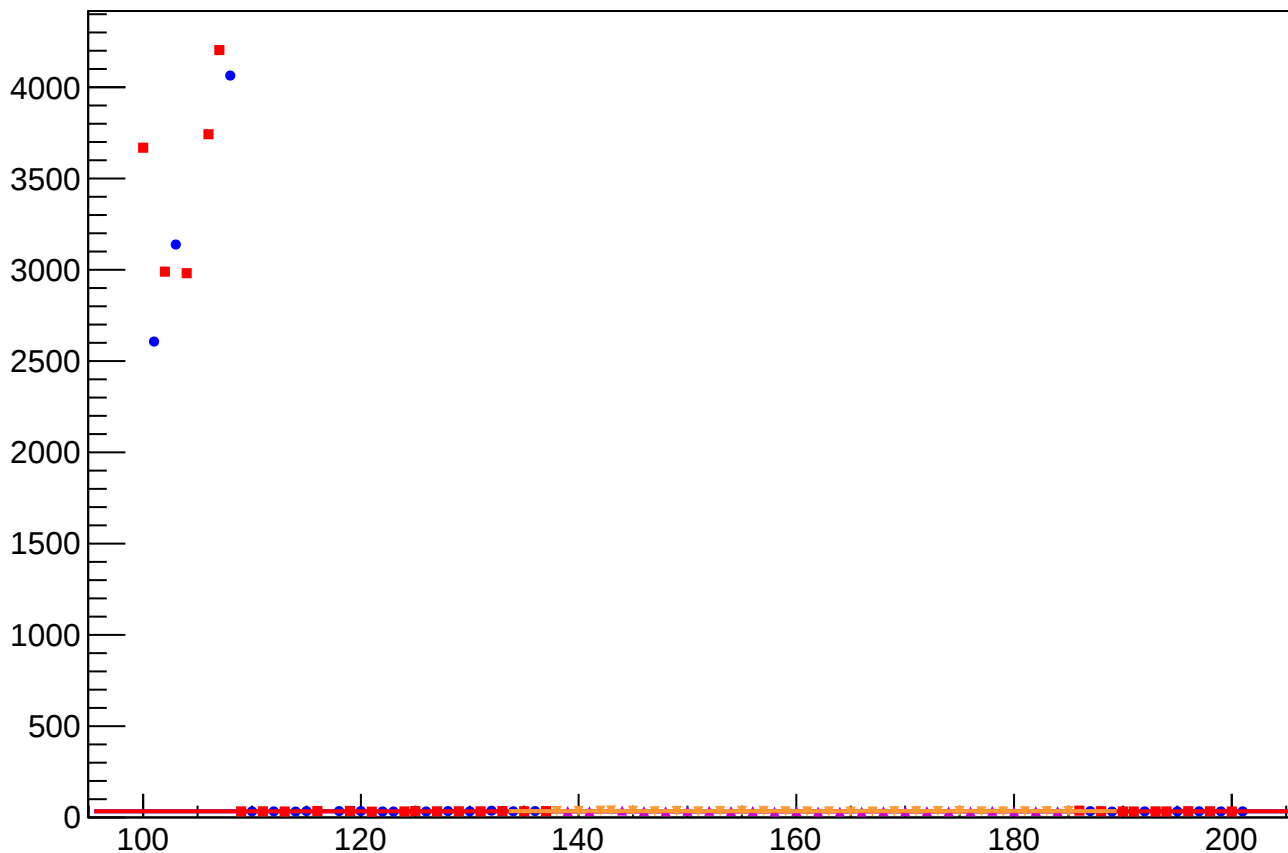
Right: 8.448 ± 7.395 $\chi^2/\text{NDF}: 54.0/51$

In: 0.389 ± 6.572 $\chi^2/\text{NDF}: 45.3/46$

Out: -12.027 ± 6.325 $\chi^2/\text{NDF}: 62.2/52$

All: -6.057 ± 4.557 $\chi^2/\text{NDF}: 109.4/99$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.711 $\pm$ 0.008 χ^2 /NDF: 3012030.7/23

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.778 $\pm$ 0.007 χ^2 /NDF: 3464789.7/27

Left In: 34.685 $\pm$ 0.006 χ^2 /NDF: 60315.2/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 118335.7/47

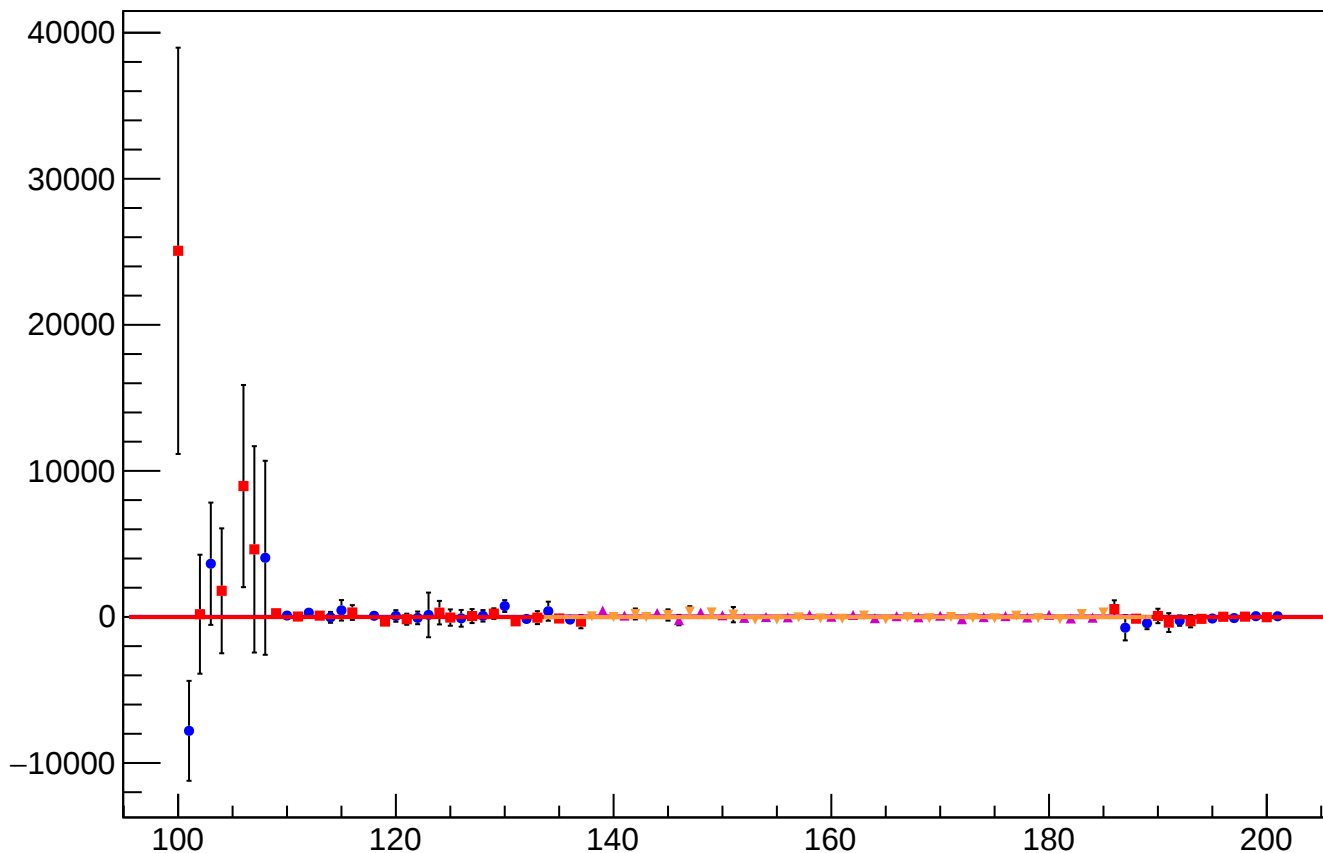
Right: 33.746 $\pm$ 0.005 χ^2 /NDF: 6476860.9/51

In: 34.321 $\pm$ 0.005 χ^2 /NDF: 3082627.5/46

Out: 34.292 $\pm$ 0.004 χ^2 /NDF: 3531018.1/52

All: 34.306 $\pm$ 0.003 χ^2 /NDF: 6613664.7/99

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 5.452+/-58.829 χ^2/NDF : 16.7/23

Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24

Right Out: -12.080+/-57.157 χ^2/NDF : 13.3/27

Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47

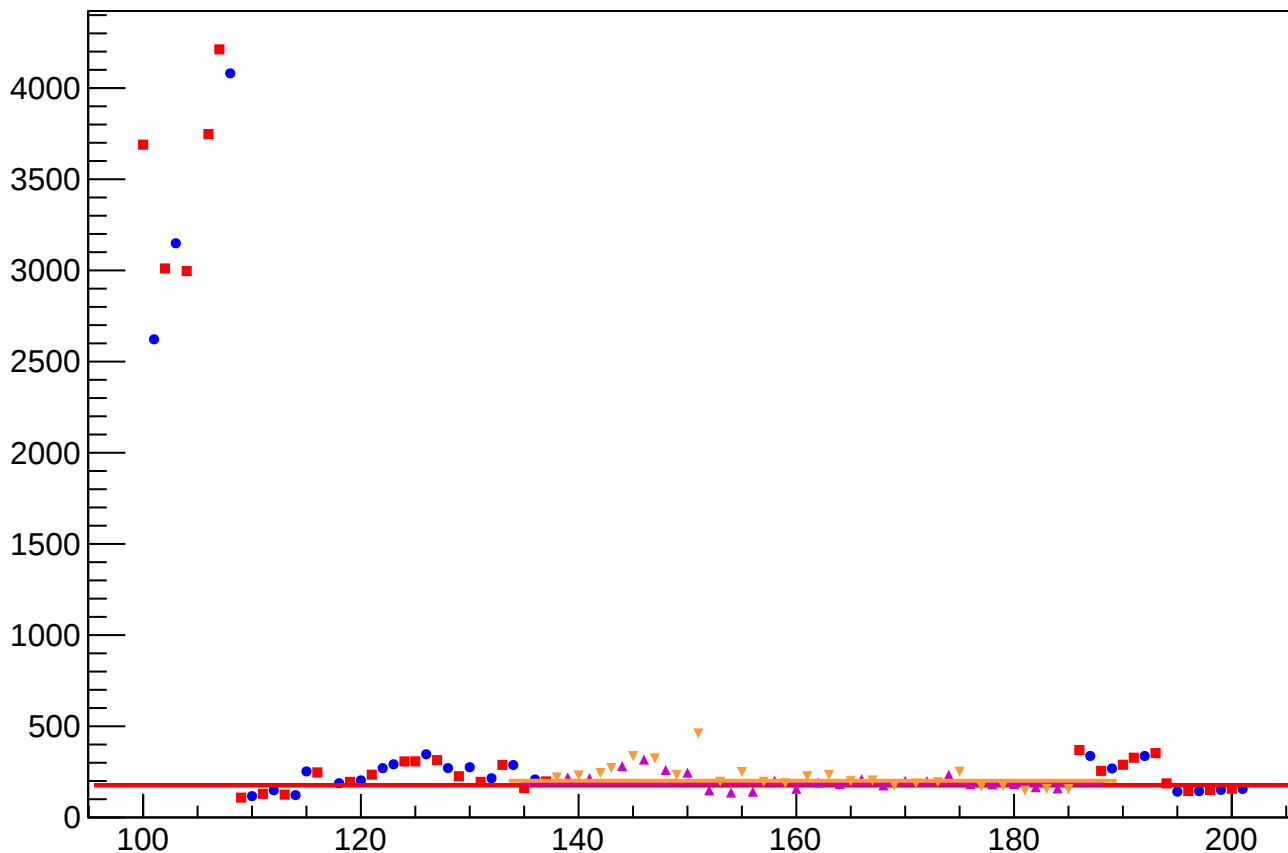
Right: -3.567+/-40.995 χ^2/NDF : 30.0/51

In: 23.160+/-36.382 χ^2/NDF : 24.2/46

Out: -10.244+/-37.032 χ^2/NDF : 21.9/52

All: 6.754+/-25.952 χ^2/NDF : 46.6/99

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.828+/-0.042 χ^2/NDF : 4472570.5/23

Left Out: 201.296+/-0.034 χ^2/NDF : 1851134.1/24

Right Out: 178.087+/-0.040 χ^2/NDF : 5304412.2/27

Left In: 185.854+/-0.033 χ^2/NDF : 1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

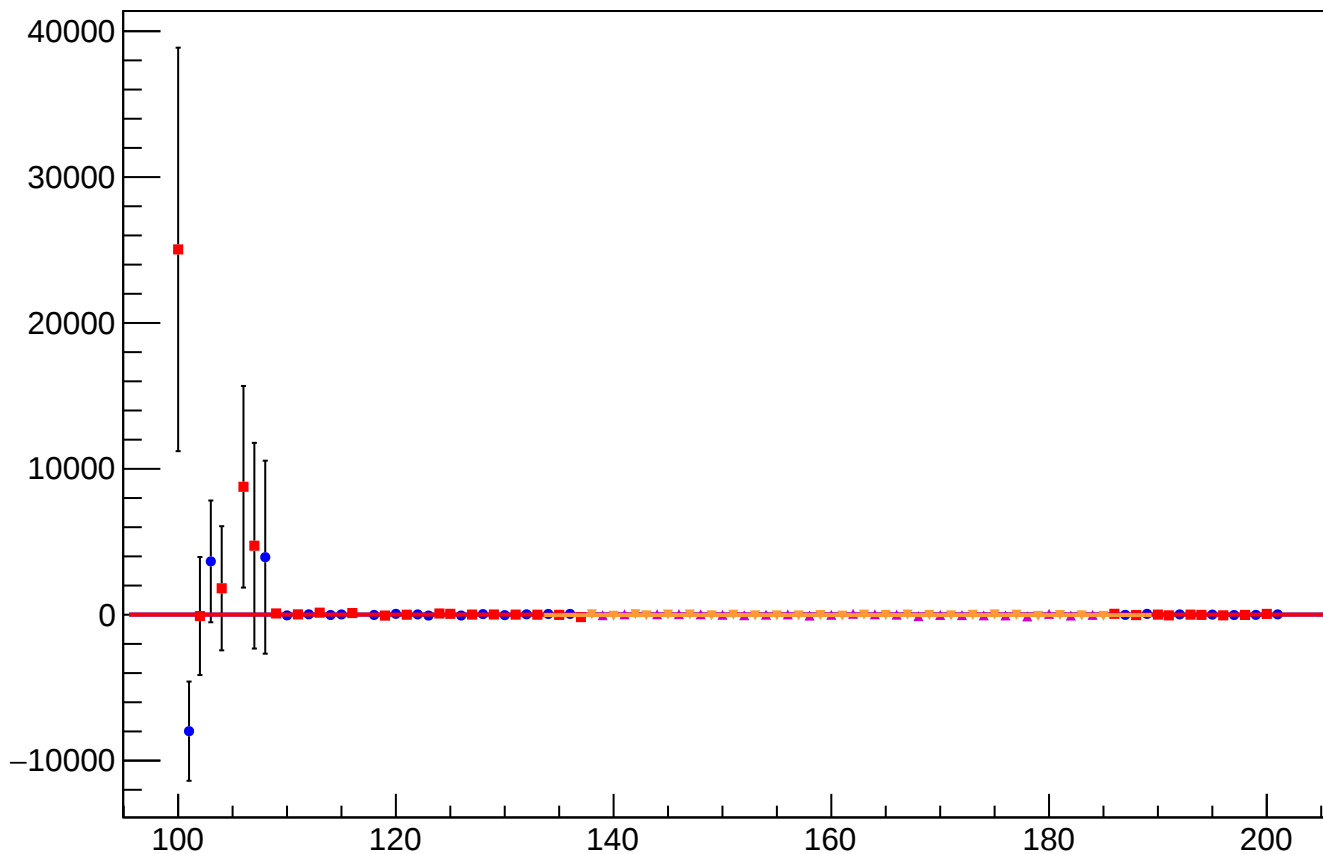
Right: 176.990+/-0.029 χ^2/NDF : 9778499.7/51

In: 182.019+/-0.026 χ^2/NDF : 5890215.4/46

Out: 191.554+/-0.026 χ^2/NDF : 7346895.5/52

All: 186.702+/-0.018 χ^2/NDF : 13304574.3/99

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.340+/-9.743 χ^2/NDF : 17.3/23

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 9.475+/-9.247 χ^2/NDF : 36.5/27

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

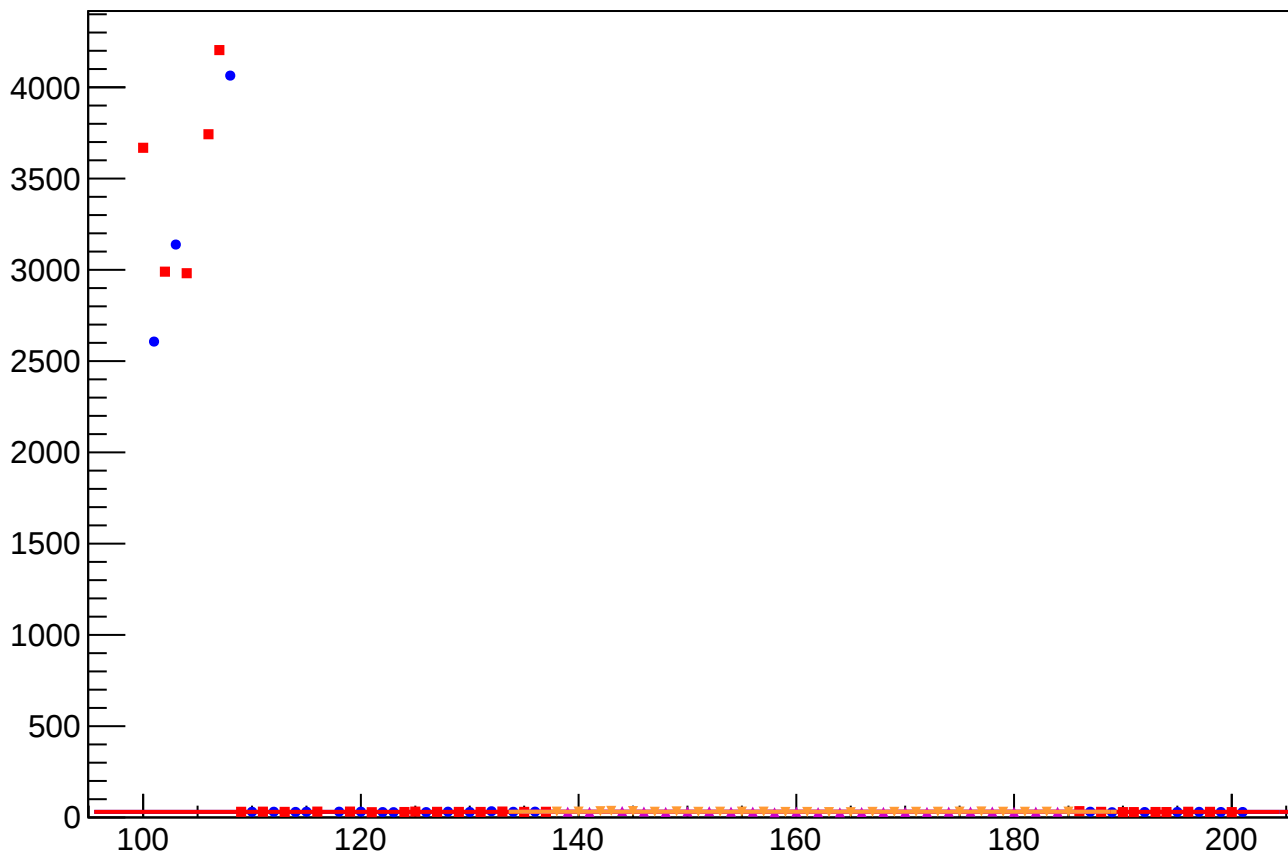
Right: 10.359+/-6.707 χ^2/NDF : 53.8/51

In: 0.541+/-5.968 χ^2/NDF : 57.6/46

Out: -10.372+/-5.749 χ^2/NDF : 62.8/52

All: -5.119+/-4.140 χ^2/NDF : 122.1/99

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.562 $\pm$ 0.007 χ^2 /NDF: 3025770.5/23

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.609 $\pm$ 0.007 χ^2 /NDF: 3479599.4/27

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

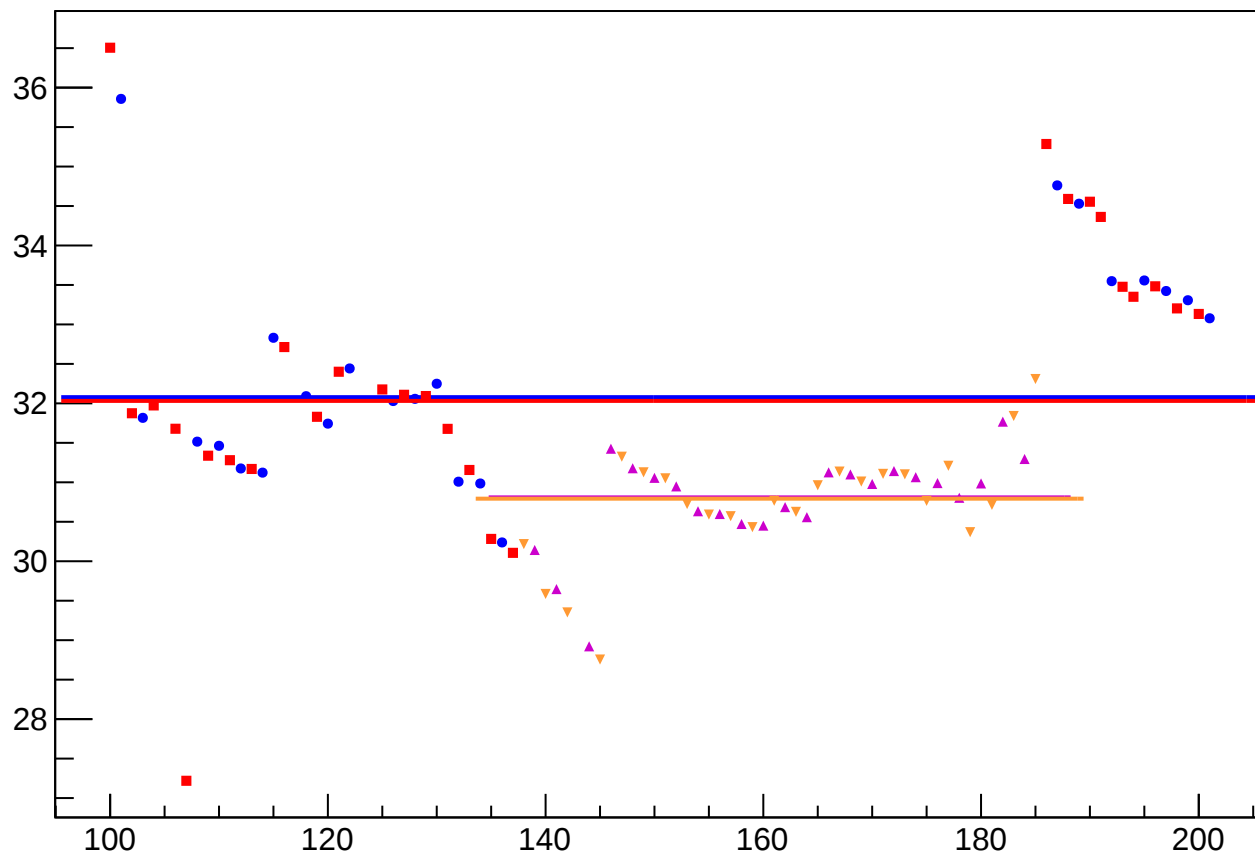
Right: 30.587 $\pm$ 0.005 χ^2 /NDF: 6505395.1/51

In: 31.138 $\pm$ 0.004 χ^2 /NDF:3124959.0/46

Out: 31.145 $\pm$ 0.004 χ^2 /NDF:3572953.9/52

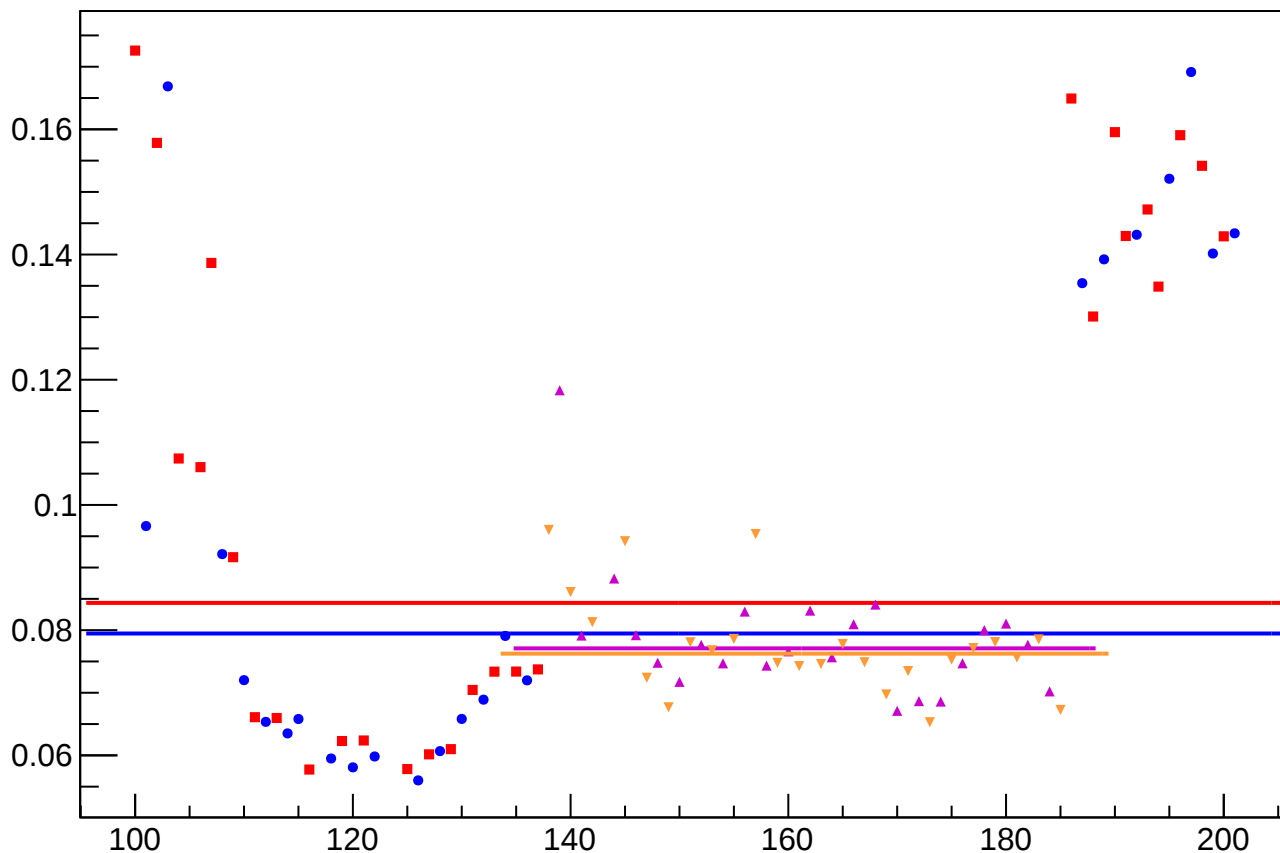
All: 31.142 $\pm$ 0.003 χ^2 /NDF: 6697914.0/99

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.079+/-0.000	χ^2/NDF : 2132605215.2/22	Left: 30.801+/-0.000	χ^2/NDF : 1829591088.1/46
Left Out: 30.793+/-0.000	χ^2/NDF : 1007261340.7/23	Right: 32.055+/-0.000	χ^2/NDF : 4121026871.5/49
Right Out: 32.031+/-0.000	χ^2/NDF : 1986782092.8/26	In: 31.258+/-0.000	χ^2/NDF : 4472437095.4/45
Left In: 30.809+/-0.000	χ^2/NDF : 821961762.3/22	Out: 31.221+/-0.000	χ^2/NDF : 4458028838.9/50
		All: 31.239+/-0.000	χ^2/NDF : 8933276079.1/9

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.079+/-0.000 χ^2/NDF : 2898424.5/22

Left Out: 0.076+/-0.000 χ^2/NDF :277876.5/23

Right Out: 0.084+/-0.000 χ^2/NDF : 3342731.9/26

Left In: 0.077+/-0.000 χ^2/NDF :325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

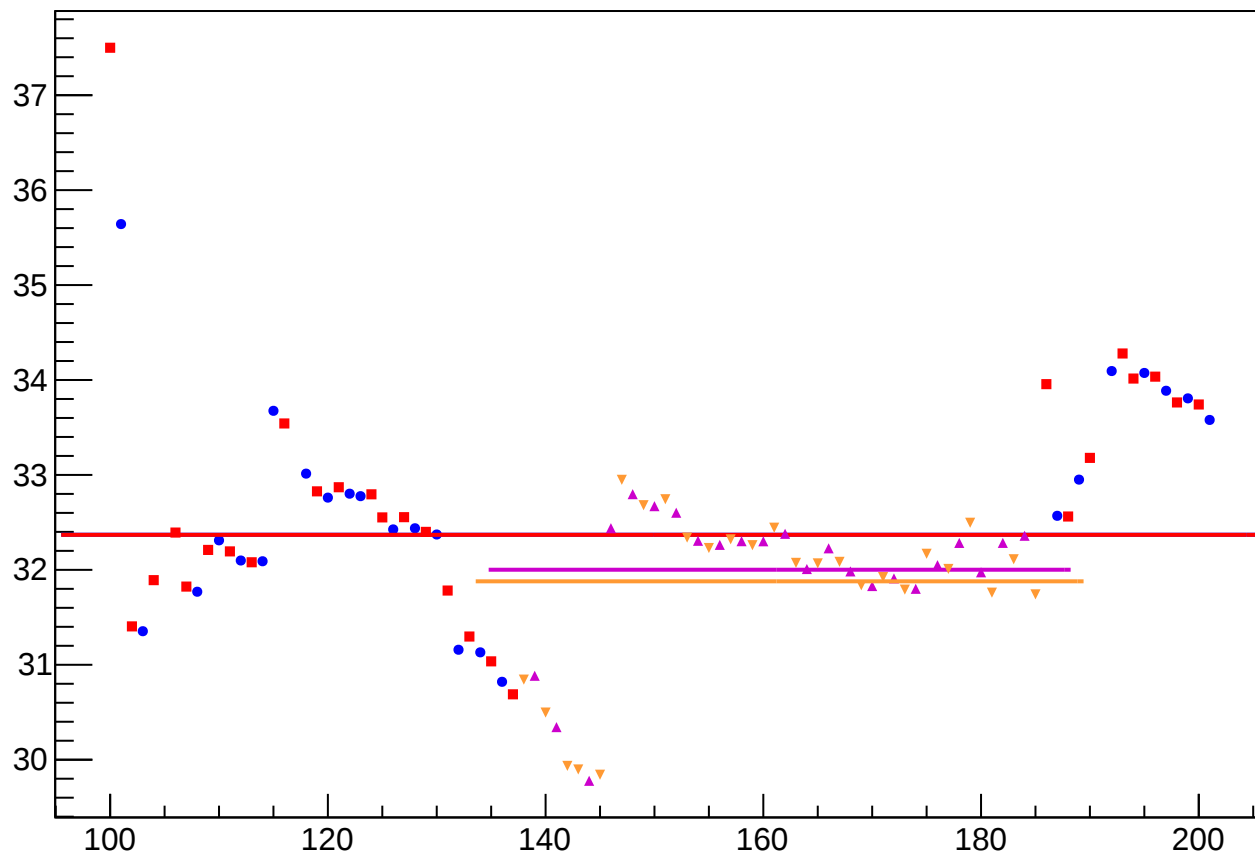
Right: 0.082+/-0.000 χ^2/NDF : 6276028.8/49

In: 0.078+/-0.000 χ^2/NDF :3234886.7/45

Out: 0.079+/-0.000 χ^2/NDF :3746068.4/50

All: 0.078+/-0.000 χ^2/NDF : 6986211.5/96

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.370+/-0.000 χ^2/NDF : 1228844603.9/23

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.369+/-0.000 χ^2/NDF : 734887999.8/26

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

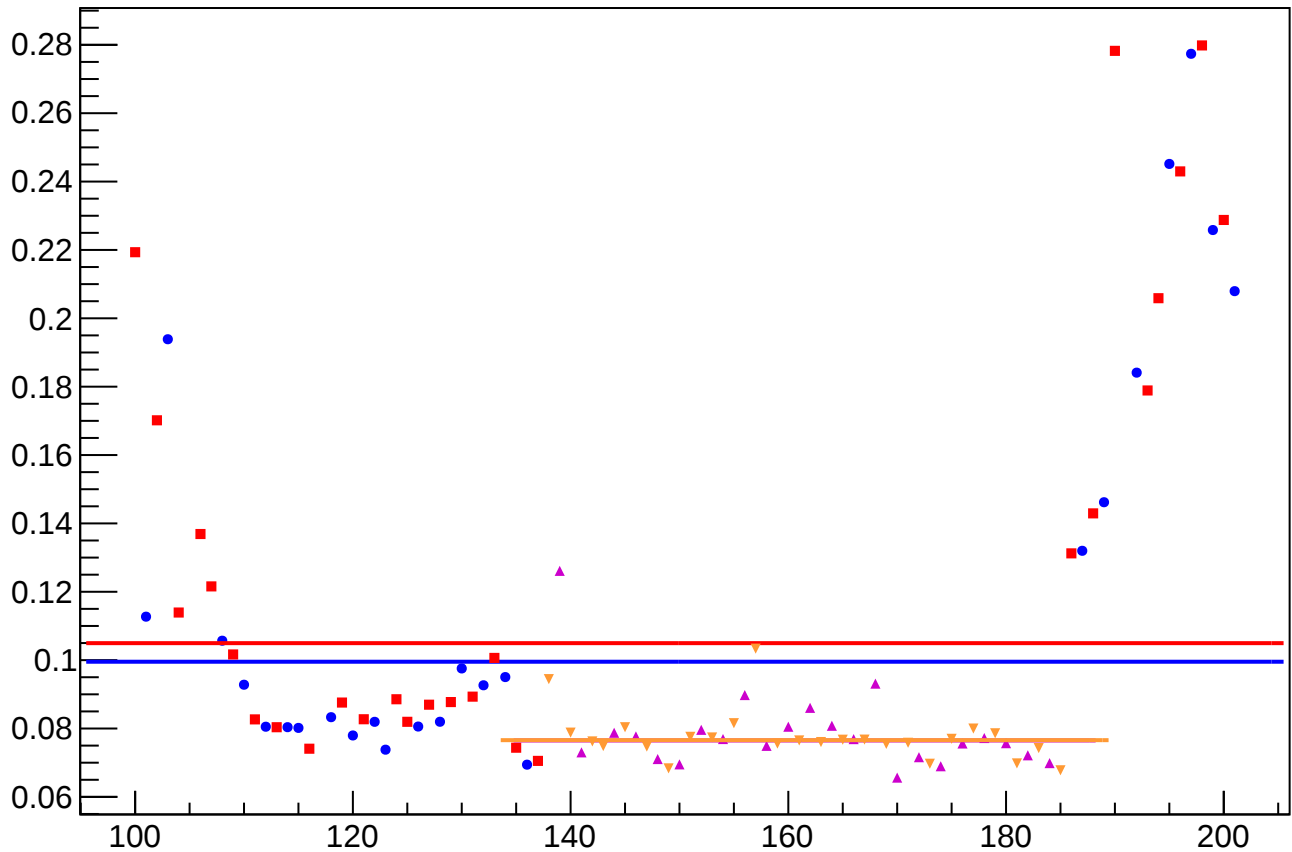
Right: 32.369+/-0.000 χ^2/NDF : 1963733153.9/50

In: 32.092+/-0.000 χ^2/NDF : 2731503470.2/46

Out: 31.997+/-0.000 χ^2/NDF : 2876839941.9/51

All: 32.043+/-0.000 χ^2/NDF : 5625082654.5/59

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.100 $\pm$ 0.000 χ^2 /NDF: 3384911.6/23

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.105 $\pm$ 0.000 χ^2 /NDF: 3507786.8/26

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

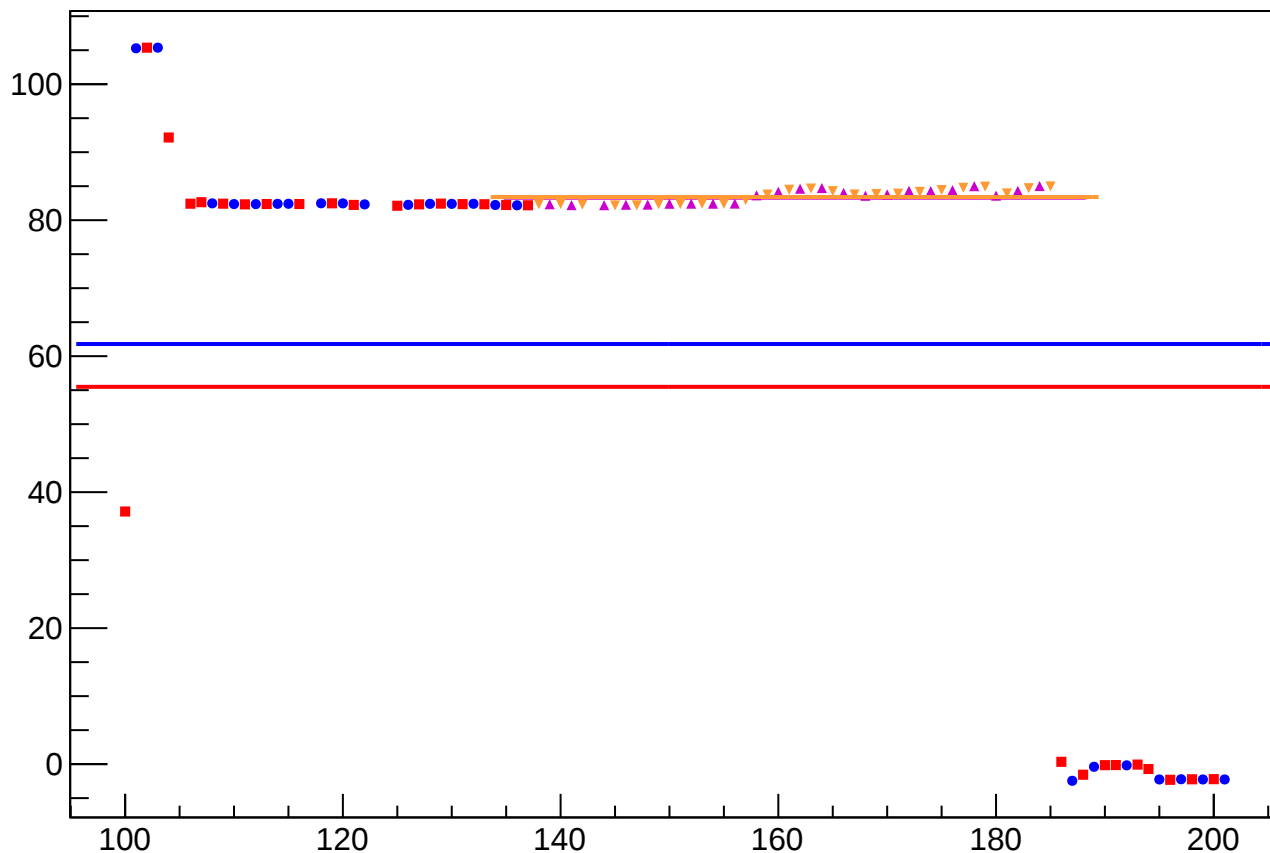
Right: 0.102 $\pm$ 0.000 χ^2 /NDF: 6919292.6/50

In: 0.082 $\pm$ 0.000 χ^2 /NDF:4532374.8/46

Out: 0.083 $\pm$ 0.000 χ^2 /NDF:4830174.2/51

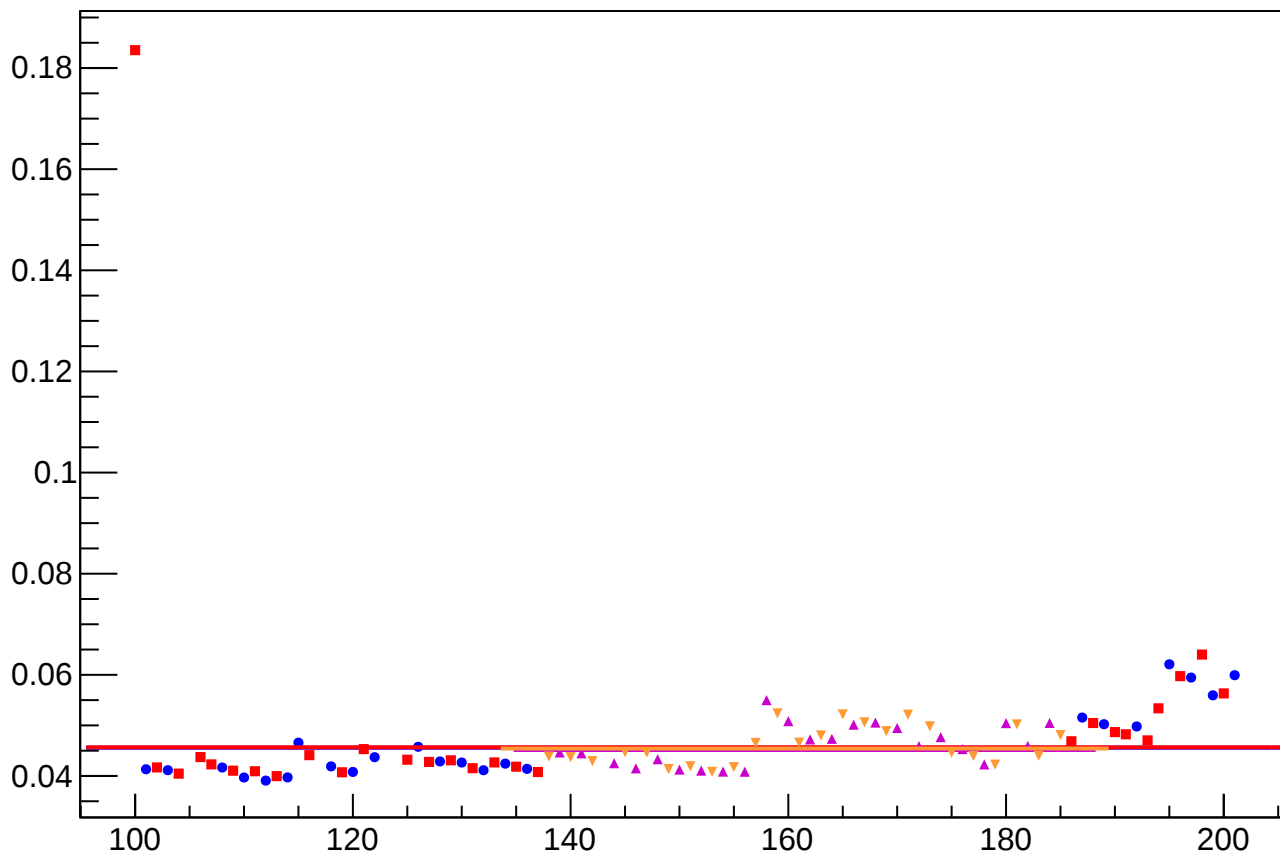
All: 0.083 $\pm$ 0.000 χ^2 /NDF: 9368423.1/98

yield_dsl_mean vs Slug, Sign Corrected



Right In: 61.785+/-0.000	χ^2/NDF : 8457236306293.3/22	Left: 83.355+/-0.000	χ^2/NDF : 17213898269.1/46
Left Out: 83.402+/-0.000	χ^2/NDF : 8756634444.3/23	Right: 58.442+/-0.000	χ^2/NDF : 18595942195530.3/22
Right Out: 55.491+/-0.000	χ^2/NDF : 10028795306538.5/26	In: 75.006+/-0.000	χ^2/NDF : 9952243878895.8/45
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 71.775+/-0.000	χ^2/NDF : 12726881288285.4/5
		All: 73.352+/-0.000	χ^2/NDF : 2275152829928.5/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.046+/-0.000 χ^2/NDF : 489293.6/22

Left Out: 0.045+/-0.000 χ^2/NDF : 206685.9/23

Right Out: 0.046+/-0.000 χ^2/NDF : 525301.7/26

Left In: 0.045+/-0.000 χ^2/NDF : 242885.4/22

Left: 0.045+/-0.000 χ^2/NDF : 450258.5/46

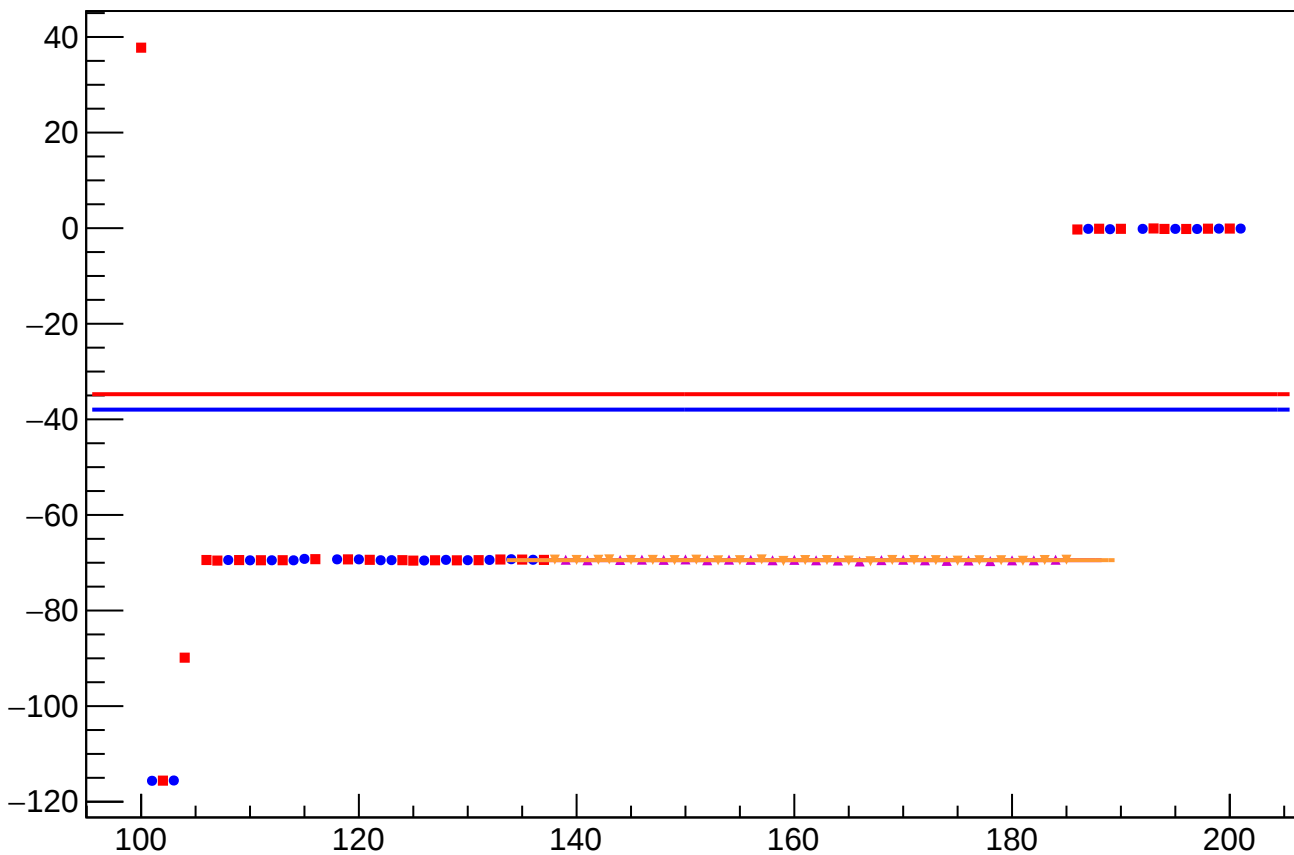
Right: 0.046+/-0.000 χ^2/NDF : 1014627.9/49

In: 0.045+/-0.000 χ^2/NDF : 733442.4/45

Out: 0.046+/-0.000 χ^2/NDF : 732361.2/50

All: 0.045+/-0.000 χ^2/NDF : 1466435.4/96

yield_dsr_mean vs Slug, Sign Corrected



Right In: -37.963+/-0.000

 $\chi^2/\text{NDF}: 6313471125396.6/23$

Left: -69.460 ± 0.000 χ^2/NDF : 102399164.0/47

Right: -36.252+/-0.000 χ^2/NDF : 12752058044785.3

In: -56.355+/-0.000 χ^2 /NDF:8562631403545.2/46

Out: -54.552+/-0.000 χ^2/NDF :9435584013045.3/5

Left Out: -69.461+/-0.000

 $\chi^2/\text{NDF}: 49572401.9/24$

Right Out: -34.738 ± 0.000

 $\chi^2/\text{NDF}: 6417167068274.7/26$

In: -56.355+/-0.000 χ^2 /NDF:8562631403545.2/46

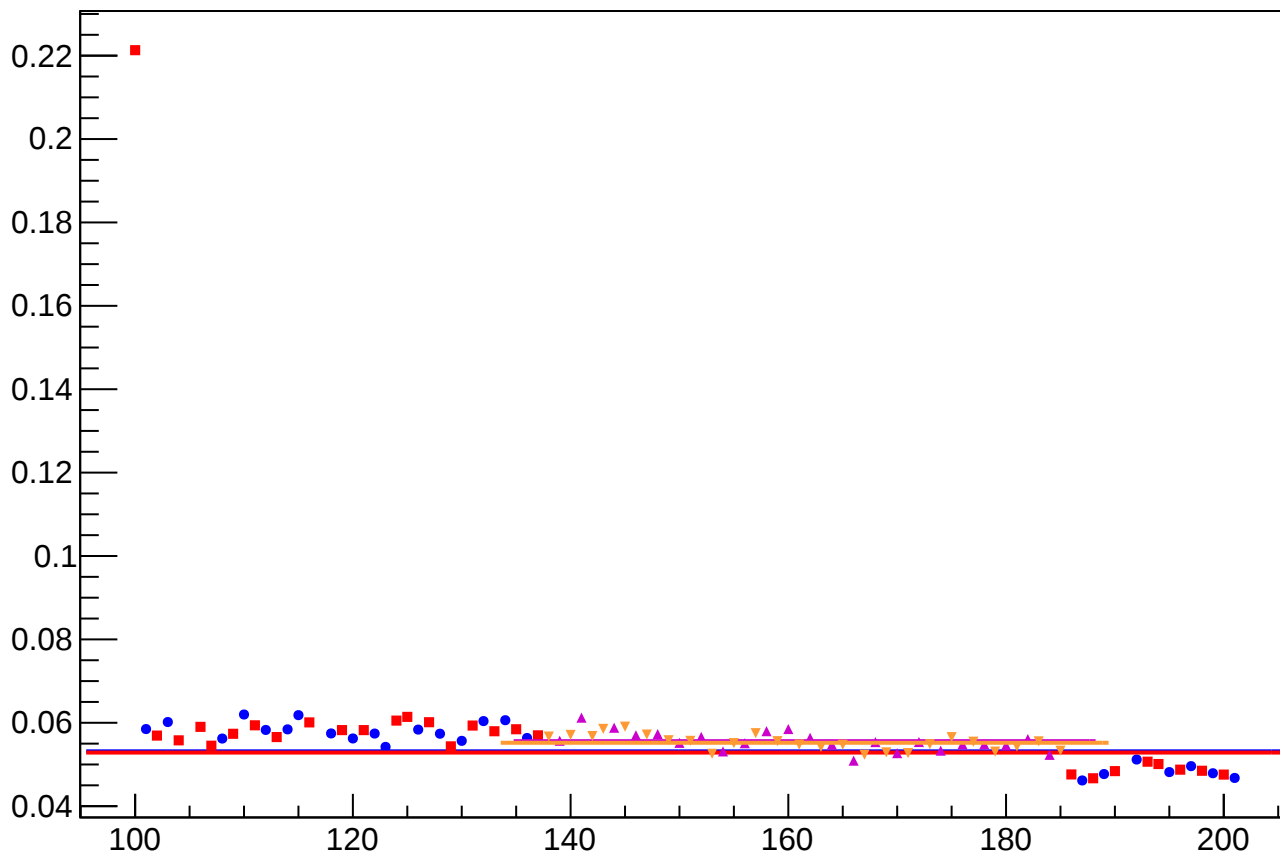
Out: -54.552+/-0.000 χ^2/NDF :9435584013045.3/5

Left In: -69.458+/-0.000

 $\chi^2/\text{NDF}: 52798704.3/22$

All: -55.413+/-0.000 χ^2/NDF : 180140792066

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.053+/-0.000 χ^2/NDF : 195677.2/23

Left Out: 0.055+/-0.000 χ^2/NDF : 38761.8/24

Right Out: 0.053+/-0.000 χ^2/NDF : 287490.2/26

Left In: 0.056+/-0.000 χ^2/NDF : 52190.5/22

Left: 0.055+/-0.000 χ^2/NDF : 91784.6/47

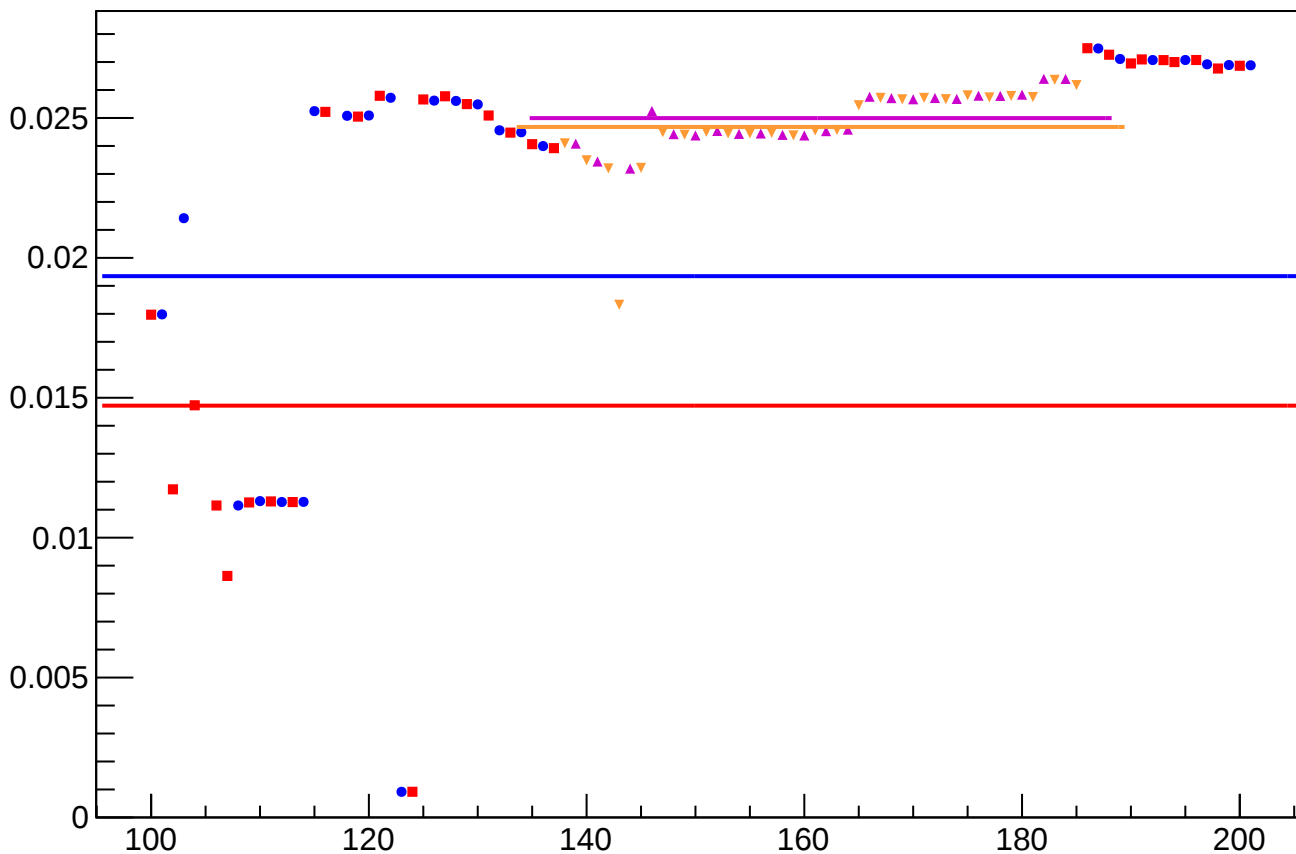
Right: 0.053+/-0.000 χ^2/NDF : 483527.9/50

In: 0.055+/-0.000 χ^2/NDF : 274835.3/46

Out: 0.054+/-0.000 χ^2/NDF : 353904.5/51

All: 0.054+/-0.000 χ^2/NDF : 630140.3/98

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.019 $\pm$ 0.000 χ^2 /NDF: 167338508109.5/23

Left Out: 0.025 $\pm$ 0.000 χ^2 /NDF: 9641065555.8/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 362319933965.1/27

Left In: 0.025 $\pm$ 0.000 χ^2 /NDF: 2462473687.7/22

Left: 0.025 $\pm$ 0.000 χ^2 /NDF: 12284812437.7/47

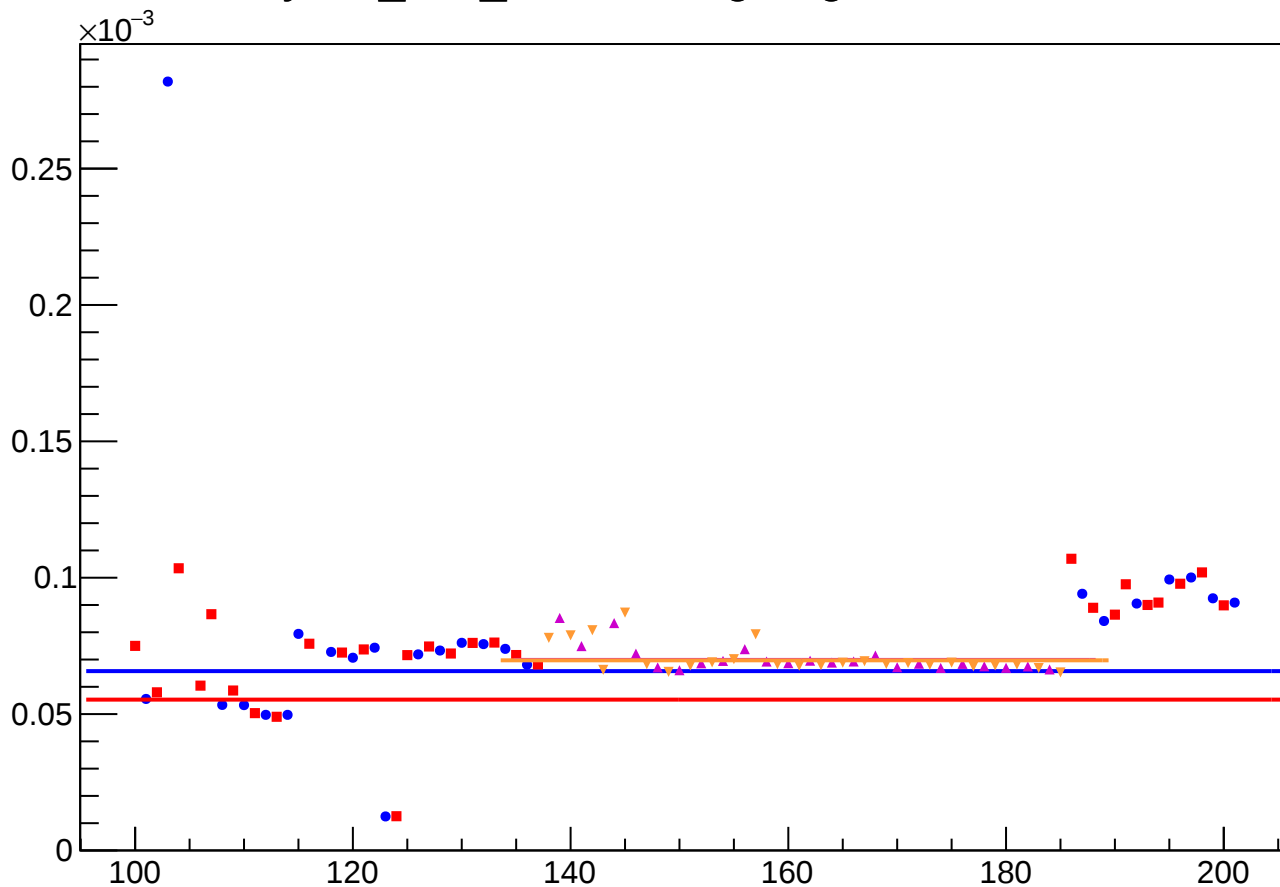
Right: 0.017 $\pm$ 0.000 χ^2 /NDF: 557139641195.5/51

In: 0.023 $\pm$ 0.000 χ^2 /NDF: 213134988223.6/46

Out: 0.020 $\pm$ 0.000 χ^2 /NDF: 538432017552.2/52

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 773078360717.7

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3072293.3/23

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 6063470.1/27

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

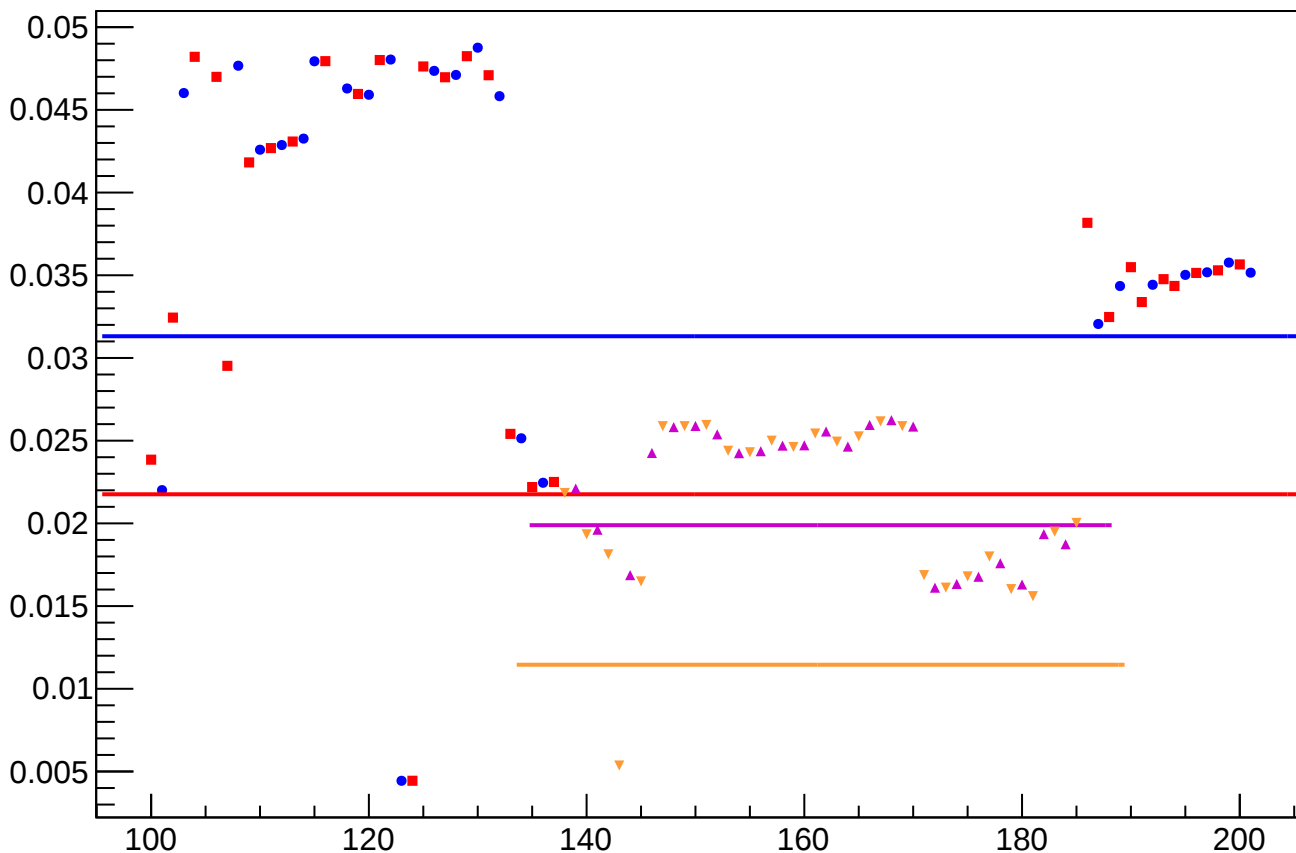
Right: 0.000+/-0.000 χ^2/NDF : 9416063.5/51

In: 0.000+/-0.000 χ^2/NDF :3247264.8/46

Out: 0.000+/-0.000 χ^2/NDF :6918543.7/52

All: 0.000+/-0.000 χ^2/NDF : 10324957.1/99

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000

χ^2/NDF : 21261204173.5/23

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.025+/-0.000

χ^2/NDF : 68775379867.7/51

Right Out: 0.022+/-0.000

χ^2/NDF : 42830470014.0/27

In: 0.022+/-0.000

χ^2/NDF : 34168301062.4/46

Out: 0.013+/-0.000

χ^2/NDF : 95109341449.8/52

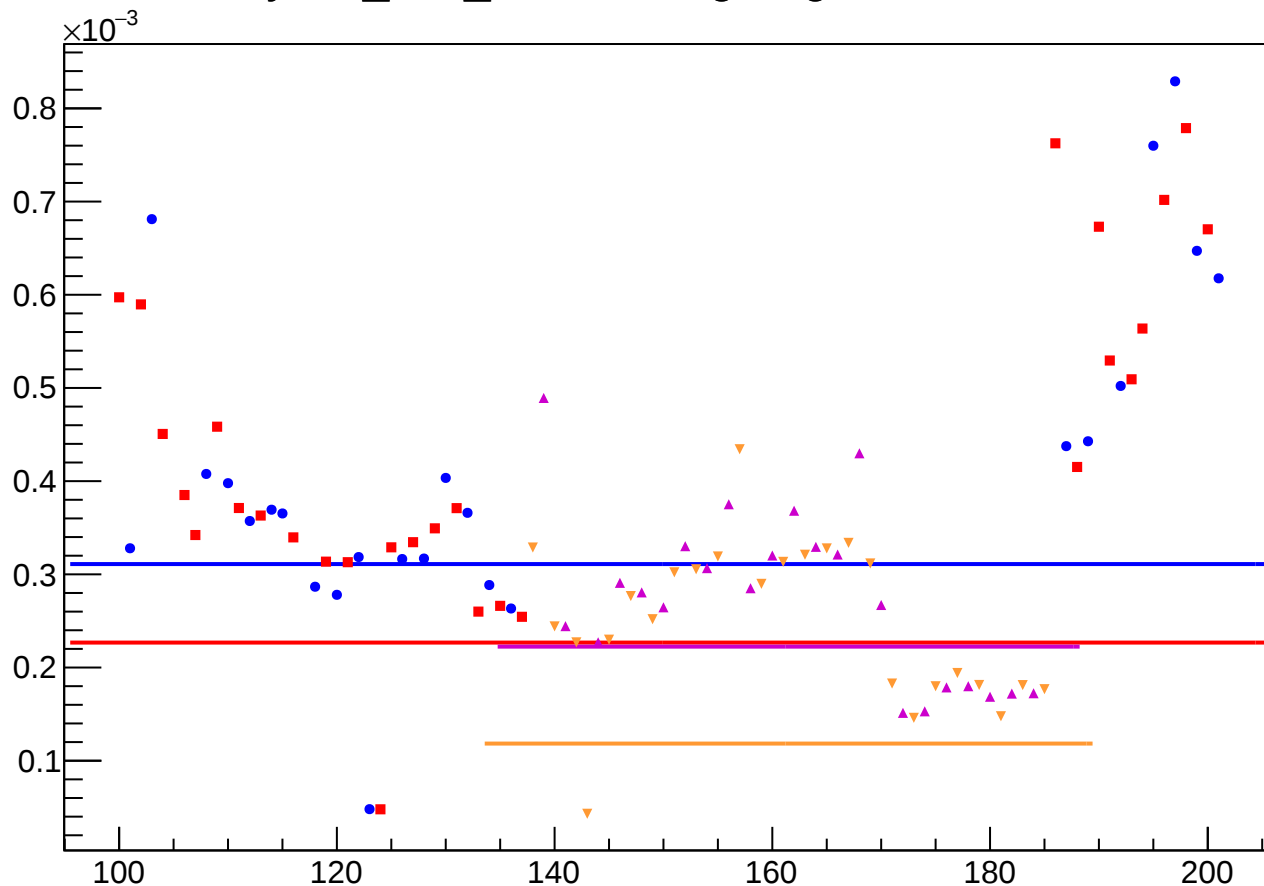
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 152007271151.4

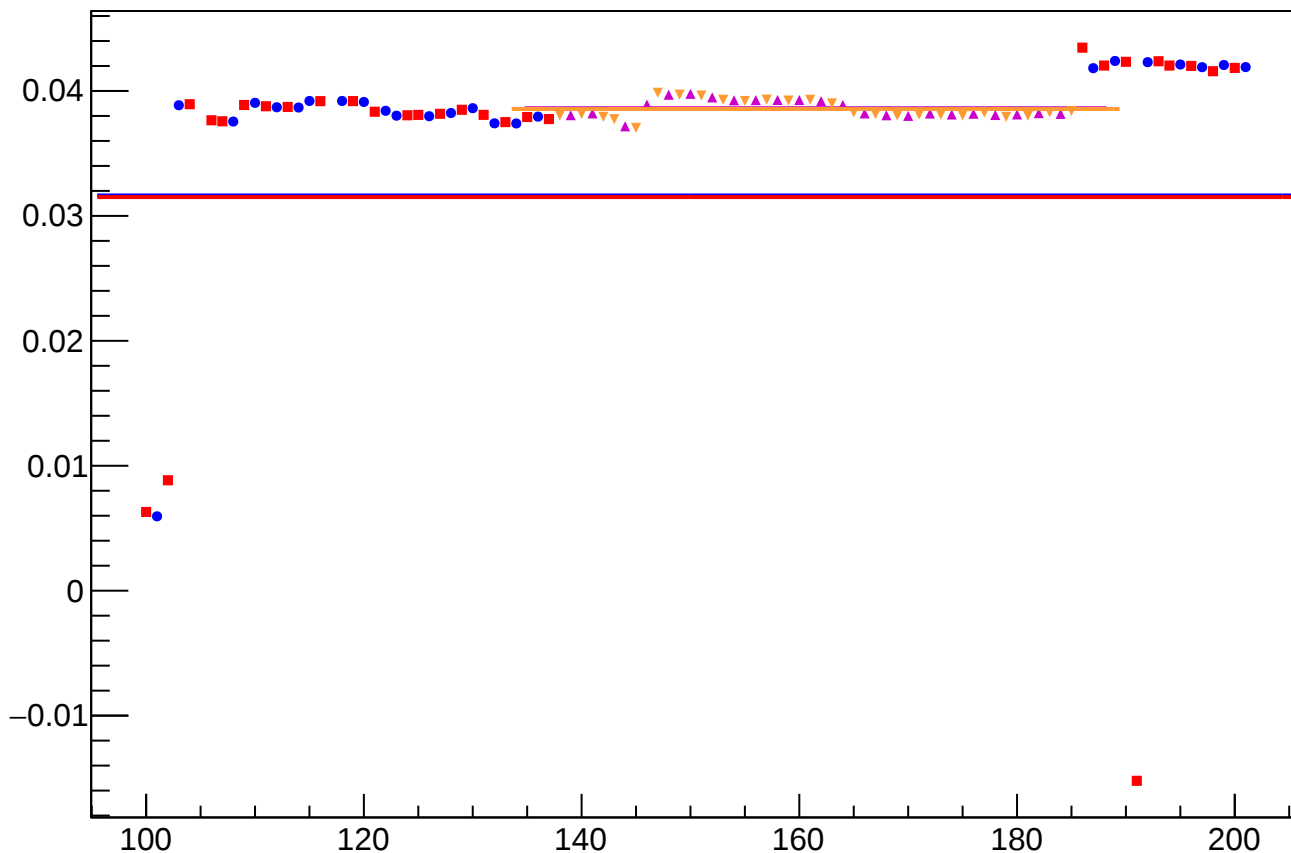
yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4955074.1/23
 Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24
 Right Out: 0.000+/-0.000 χ^2/NDF : 10189672.7/27
 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 : 15873029.4/51
 In: 0.000+/-0.000 χ^2/NDF :9252511.4/46
 Out: 0.000+/-0.000 χ^2/NDF :26403535.9/52
 All: 0.000+/-0.000 χ^2/NDF : 41570798.9/99

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000 χ^2/NDF : 107709194469.1/23

Left Out: 0.039+/-0.000 χ^2/NDF : 539468437.3/24

Right Out: 0.032+/-0.000 χ^2/NDF : 174408273689.1/27

Left In: 0.039+/-0.000 χ^2/NDF : 465745982.6/22

Left: 0.039+/-0.000 χ^2/NDF : 1007039623.8/47

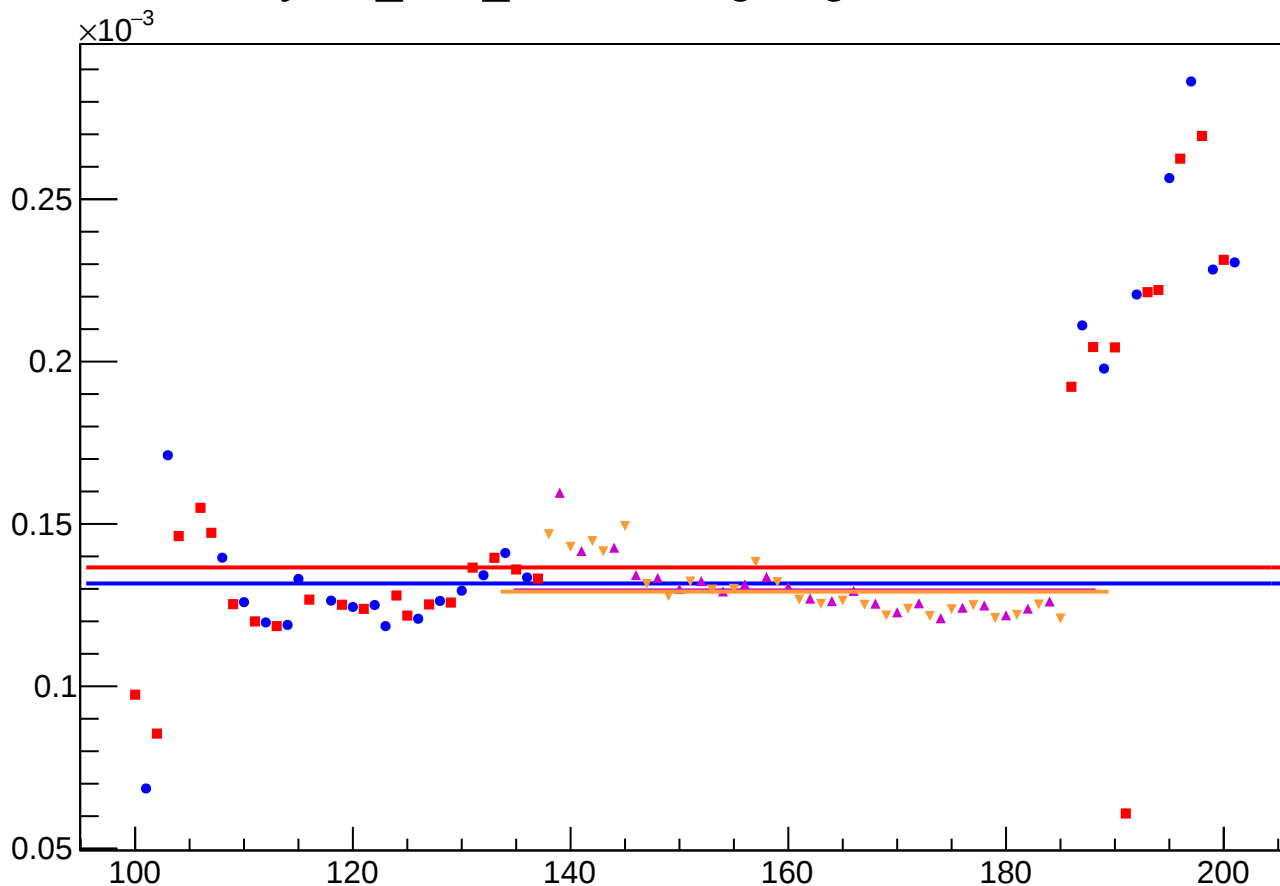
Right: 0.032+/-0.000 χ^2/NDF : 282122093356.2/51

In: 0.036+/-0.000 χ^2/NDF : 125689030581.9/46

Out: 0.036+/-0.000 χ^2/NDF : 193946873720.8/52

All: 0.036+/-0.000 χ^2/NDF : 319642381889.4

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2876359.3/23

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 2760267.9/27

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

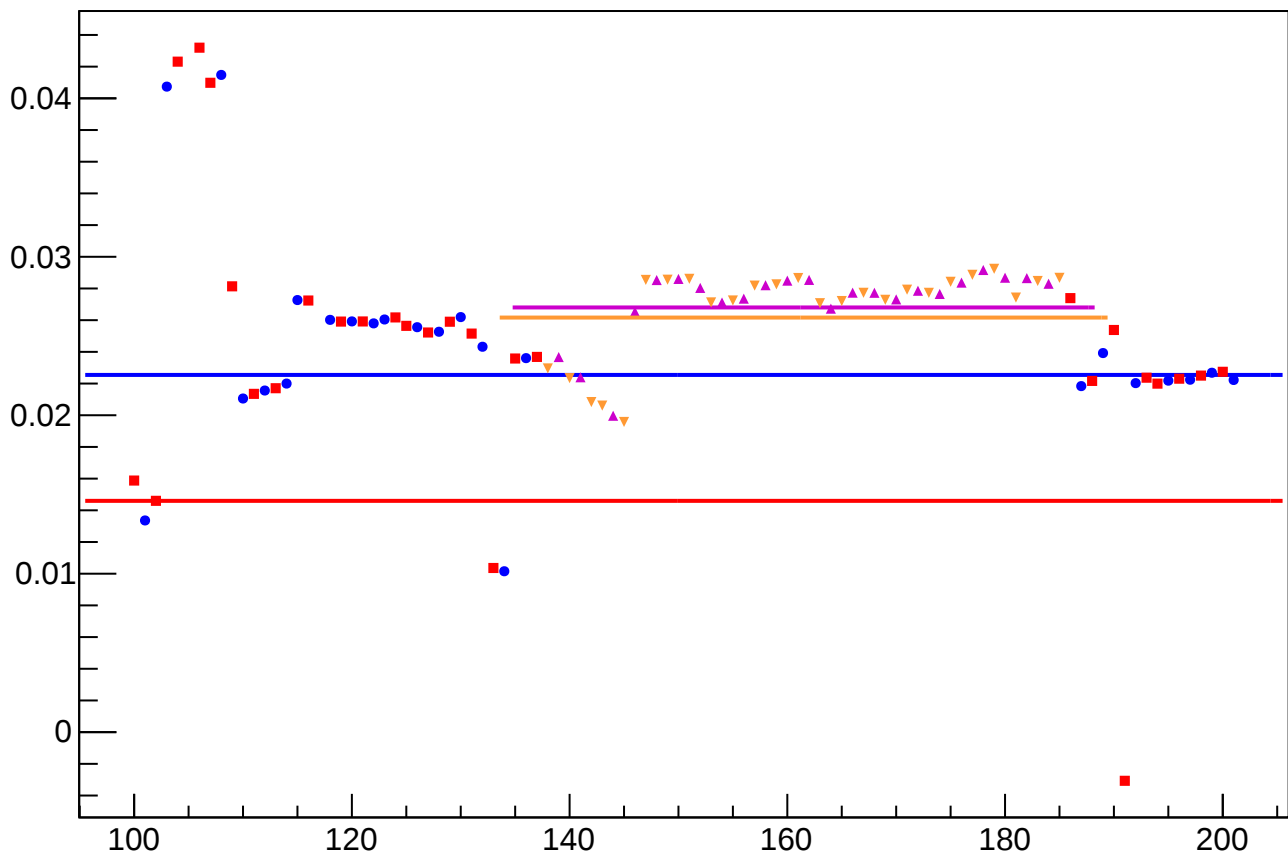
Right: 0.000+/-0.000 χ^2/NDF : 5650585.6/51

In: 0.000+/-0.000 χ^2/NDF :2994403.7/46

Out: 0.000+/-0.000 χ^2/NDF :2933049.7/52

All: 0.000+/-0.000 χ^2/NDF : 5931117.7/99

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4244420589.7/23

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.015+/-0.000 χ^2/NDF : 30858893088.3/27

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

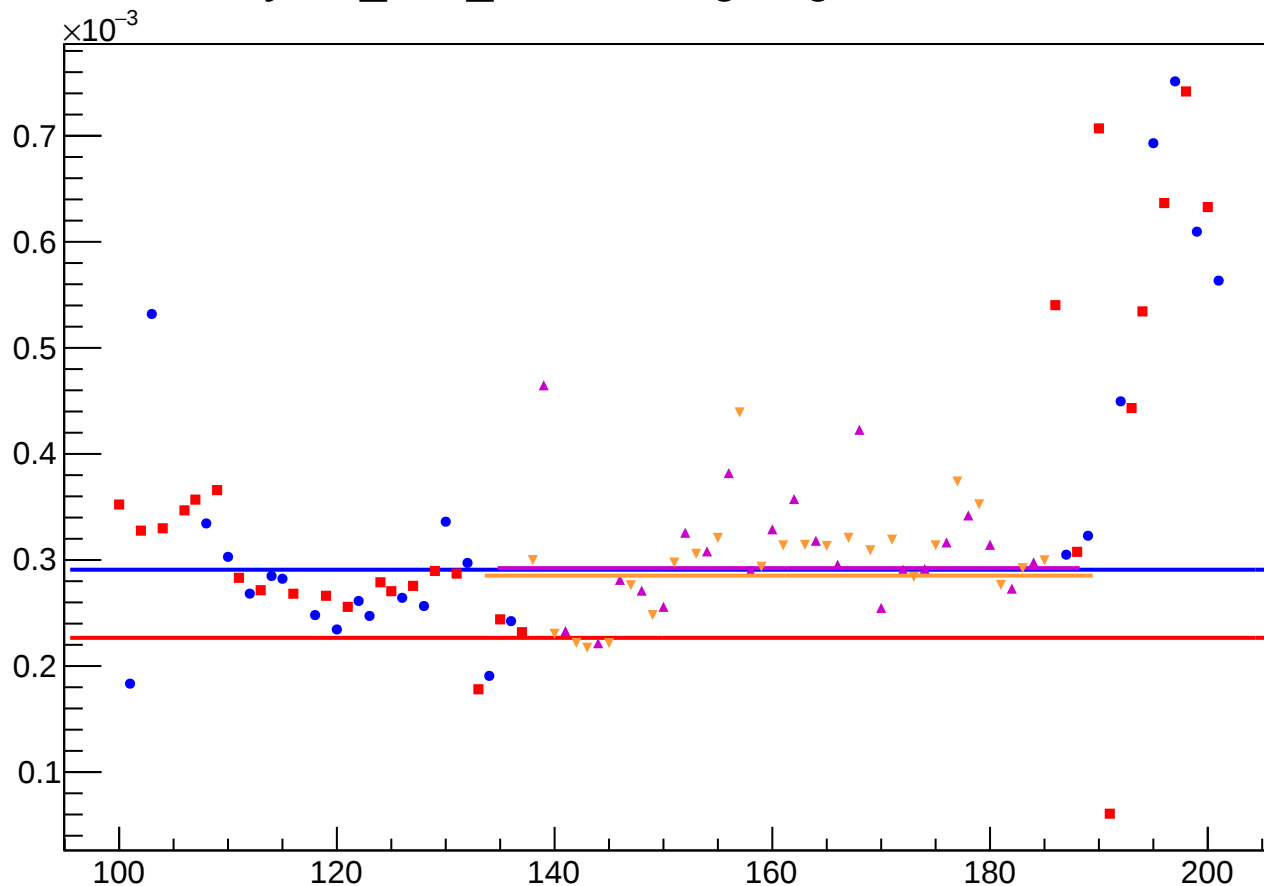
Right: 0.018+/-0.000 χ^2/NDF : 39145885946.8/51

In: 0.025+/-0.000 χ^2/NDF : 6800880746.9/46

Out: 0.021+/-0.000 χ^2/NDF : 44865738963.9/52

All: 0.023+/-0.000 χ^2/NDF : 54527030326.2/95

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2953462.1/23

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7241812.1/27

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

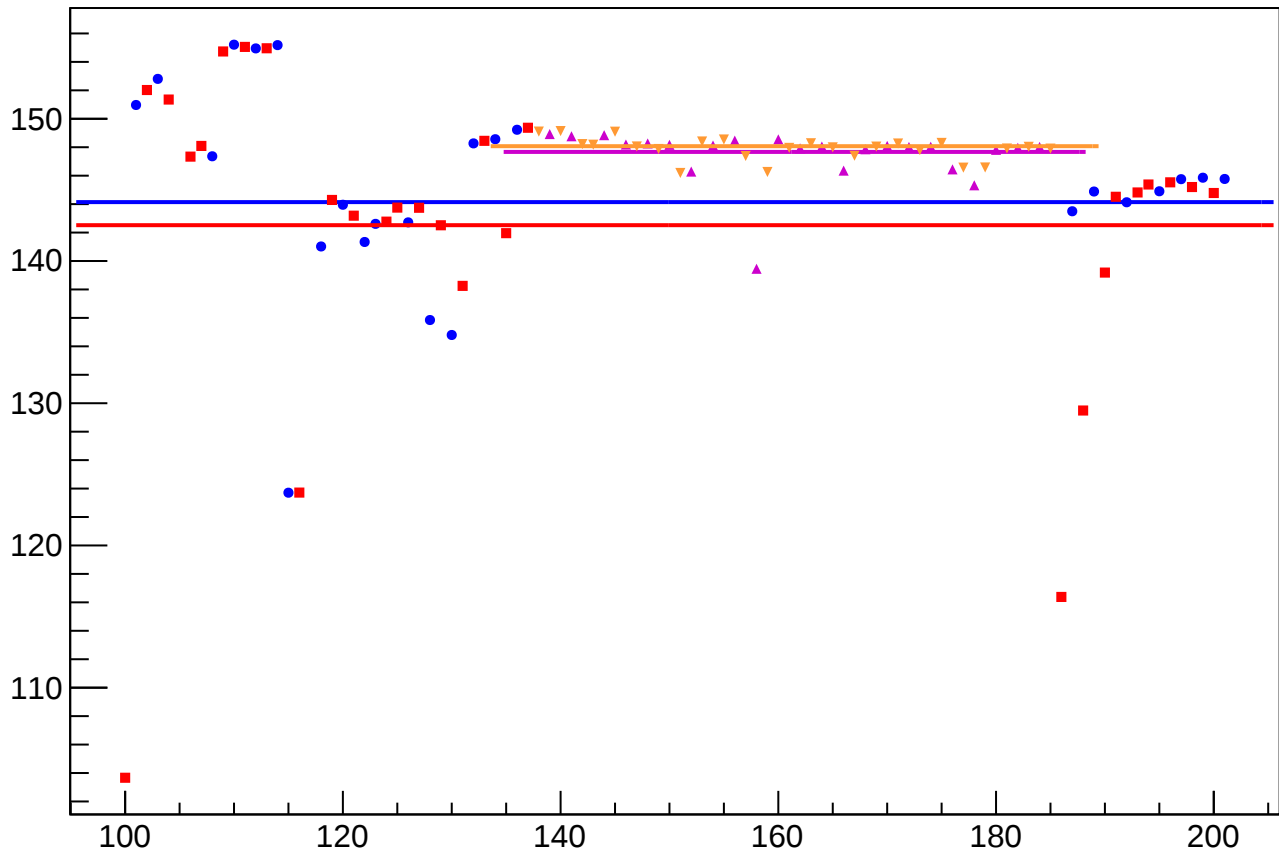
Right: 0.000+/-0.000 χ^2/NDF : 10723608.6/51

In: 0.000+/-0.000 χ^2/NDF :3852539.2/46

Out: 0.000+/-0.000 χ^2/NDF :8670189.4/52

All: 0.000+/-0.000 χ^2/NDF : 12864451.2/99

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.141 $\pm$ 0.000 χ^2/NDF : 3479655473.3/23

Left Out: 148.073 $\pm$ 0.000 χ^2/NDF : 65614067.4/24

Right Out: 142.519 $\pm$ 0.000 χ^2/NDF : 7365883090.5/27

Left In: 147.670 $\pm$ 0.000 χ^2/NDF : 345222604.4/22

Left: 147.879 $\pm$ 0.000 χ^2/NDF : 418091602.5/47

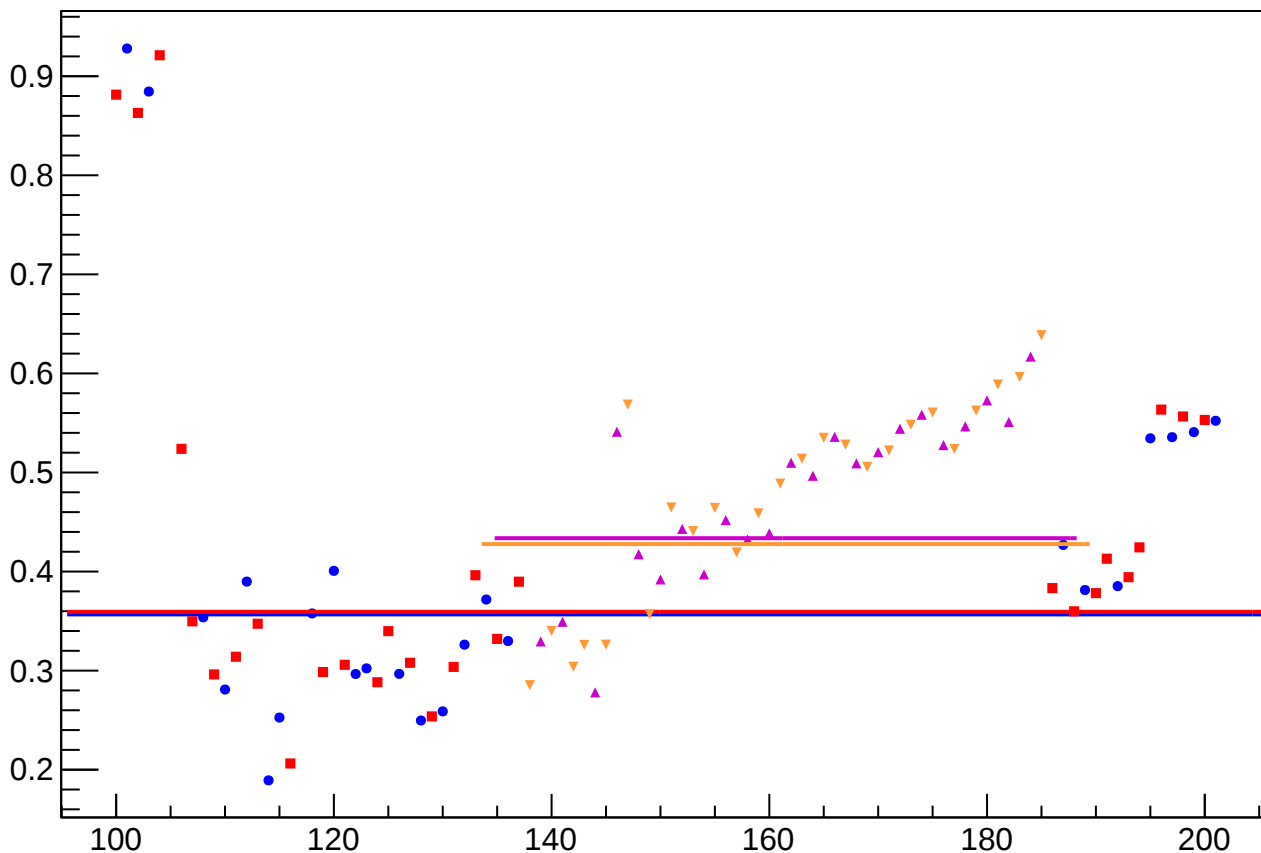
Right: 143.275 $\pm$ 0.000 χ^2/NDF : 10951040856.5/51

In: 146.030 $\pm$ 0.000 χ^2/NDF : 4325284310.3/46

Out: 145.401 $\pm$ 0.000 χ^2/NDF : 8808656790.6/52

All: 145.700 $\pm$ 0.000 χ^2/NDF : 13167591672.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.357 $\pm$ 0.000 χ^2 /NDF: 2163418.7/23

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.359 $\pm$ 0.000 χ^2 /NDF: 2036074.3/27

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

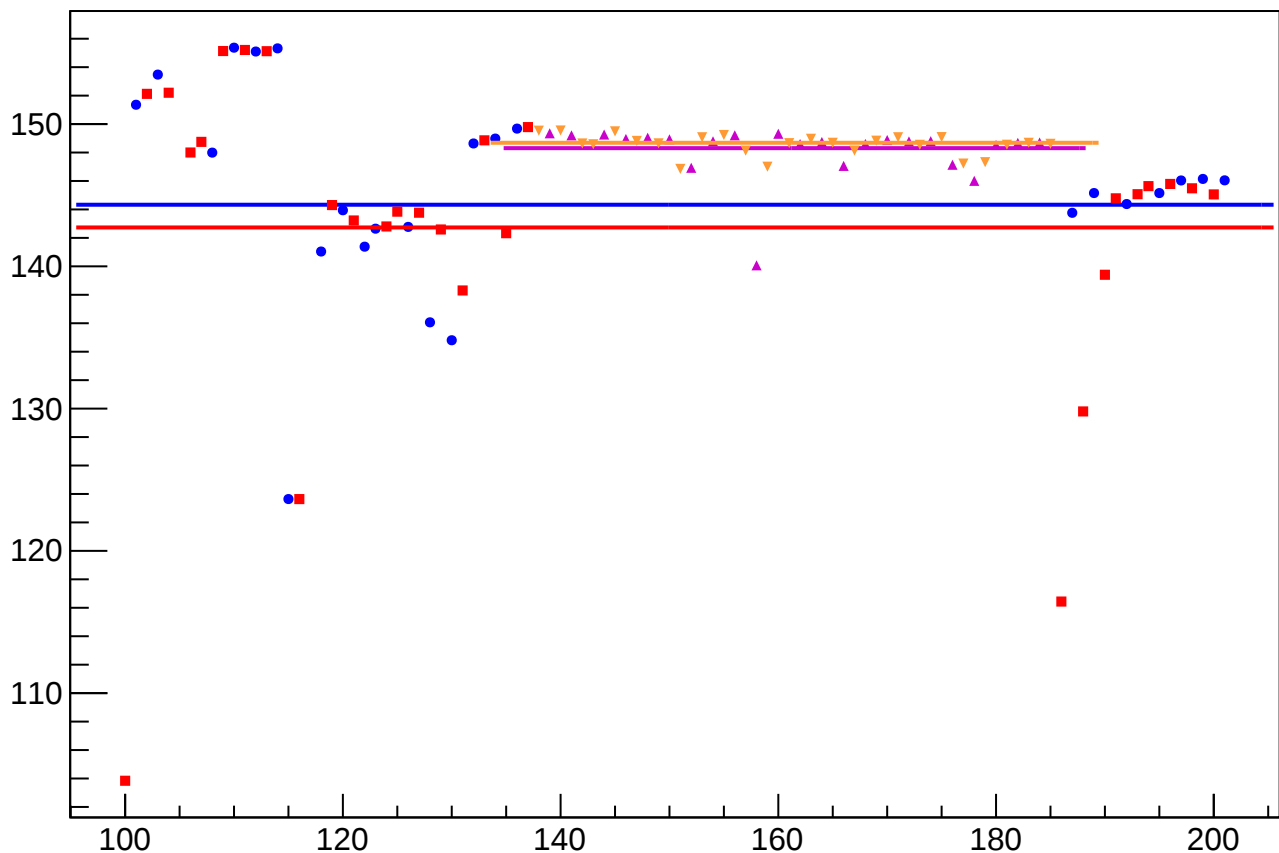
Right: 0.358 $\pm$ 0.000 χ^2 /NDF: 4200027.2/51

In: 0.398 $\pm$ 0.000 χ^2 /NDF:4134904.6/46

Out: 0.395 $\pm$ 0.000 χ^2 /NDF:4350338.7/52

All: 0.396 $\pm$ 0.000 χ^2 /NDF: 8486878.7/99

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.331 $\pm$ 0.000 χ^2 /NDF: 3527473916.7/23

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 142.733 $\pm$ 0.000 χ^2 /NDF: 7312574166.8/27

Left In: 148.307 $\pm$ 0.000 χ^2 /NDF: 333585558.2/22

Left: 148.504 $\pm$ 0.000 χ^2 /NDF: 392094013.2/47

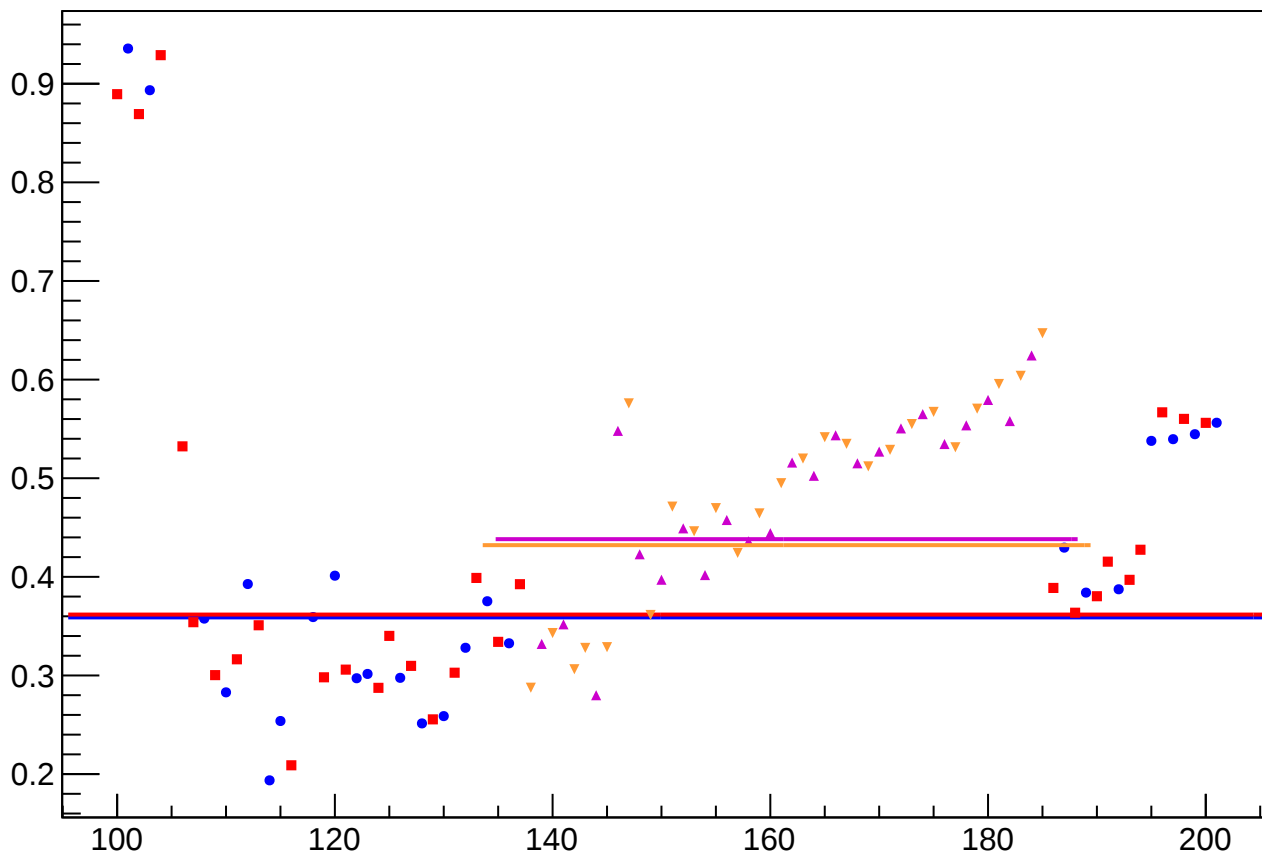
Right: 143.478 $\pm$ 0.000 χ^2 /NDF: 10941094949.4/51

In: 146.450 $\pm$ 0.000 χ^2 /NDF: 4486046890.4/46

Out: 145.810 $\pm$ 0.000 χ^2 /NDF: 8919978585.7/52

All: 146.114 $\pm$ 0.000 χ^2 /NDF: 13440167488.

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.359+/-0.000 χ^2/NDF : 2168836.8/23

Left Out: 0.432+/-0.000 χ^2/NDF :1929031.5/24

Right Out: 0.362+/-0.000 χ^2/NDF : 2039906.7/27

Left In: 0.438+/-0.000 χ^2/NDF :1521893.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3454164.8/47

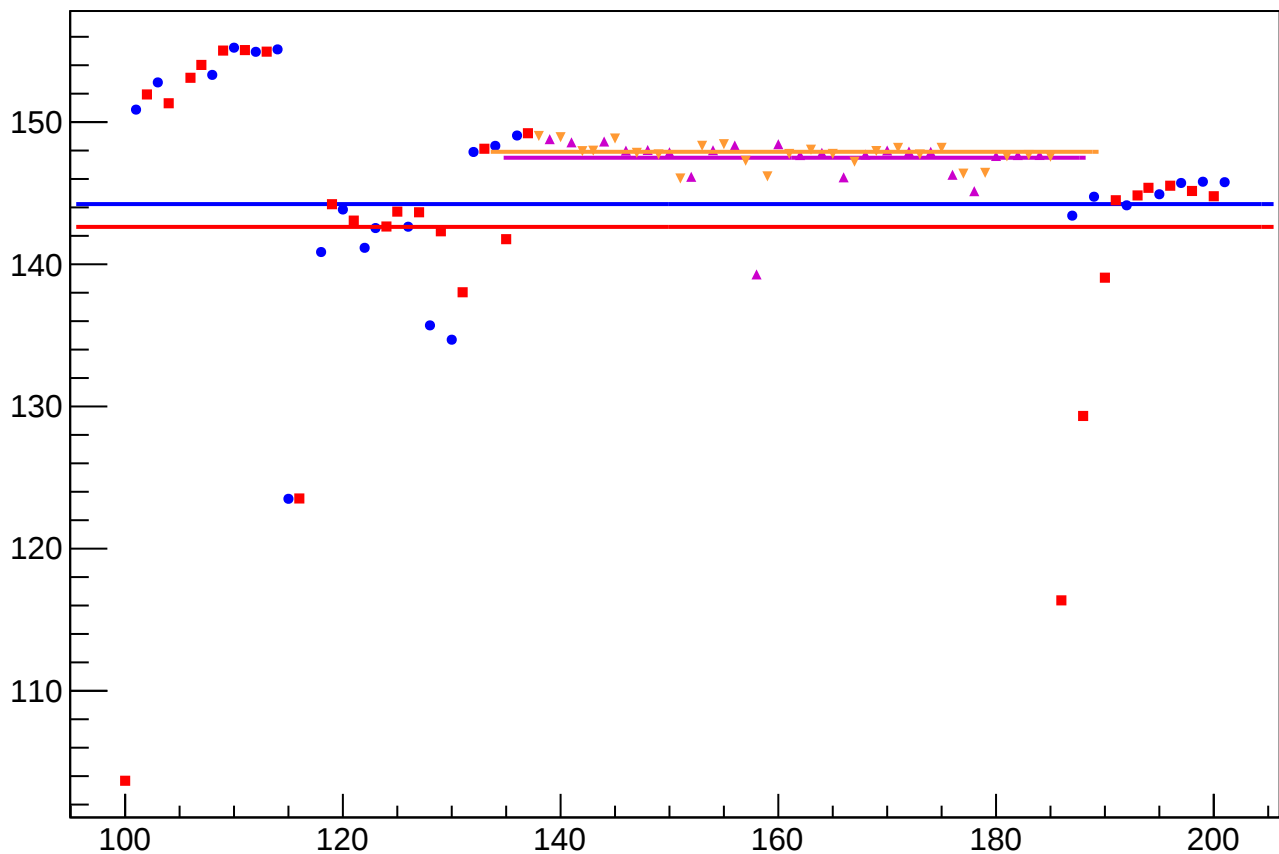
Right: 0.360+/-0.000 χ^2/NDF : 4209398.0/51

In: 0.401+/-0.000 χ^2/NDF :4188296.2/46

Out: 0.398+/-0.000 χ^2/NDF :4403685.6/52

All: 0.400+/-0.000 χ^2/NDF : 8593509.2/99

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.234 $\pm$ 0.000 χ^2 /NDF: 3687987792.0/23

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 142.630 $\pm$ 0.000 χ^2 /NDF: 7748632712.4/27

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

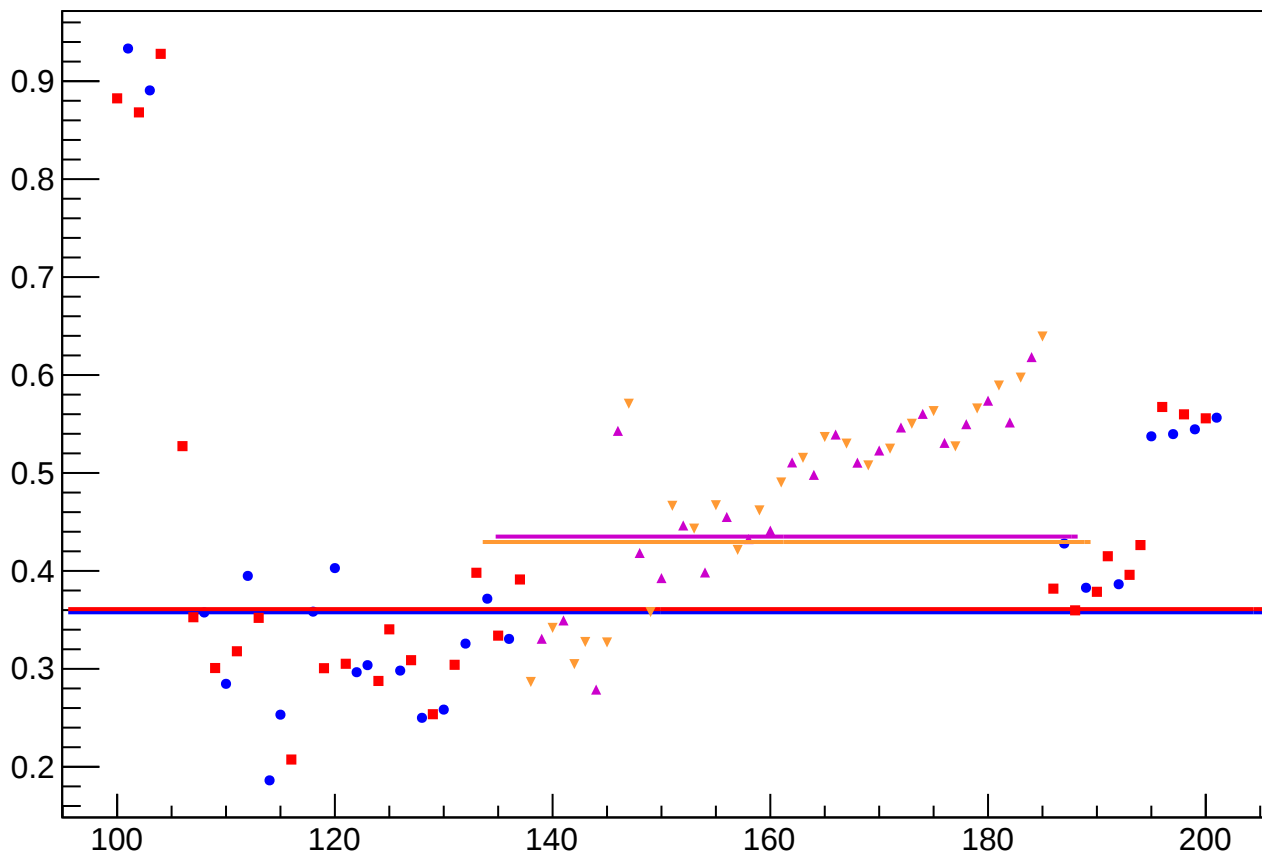
Right: 143.378 $\pm$ 0.000 χ^2 /NDF: 11538977140.6/51

In: 145.979 $\pm$ 0.000 χ^2 /NDF: 4455896441.9/46

Out: 145.371 $\pm$ 0.000 χ^2 /NDF: 9047554857.0/52

All: 145.660 $\pm$ 0.000 χ^2 /NDF: 13534595125.0/100

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.358+/-0.000 χ^2 /NDF: 2191236.6/23

Left Out: 0.430+/-0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.361+/-0.000 χ^2 /NDF: 2040068.3/27

Left In: 0.435+/-0.000 χ^2 /NDF:1502712.5/22

Left: 0.432+/-0.000 χ^2 /NDF: 3401133.5/47

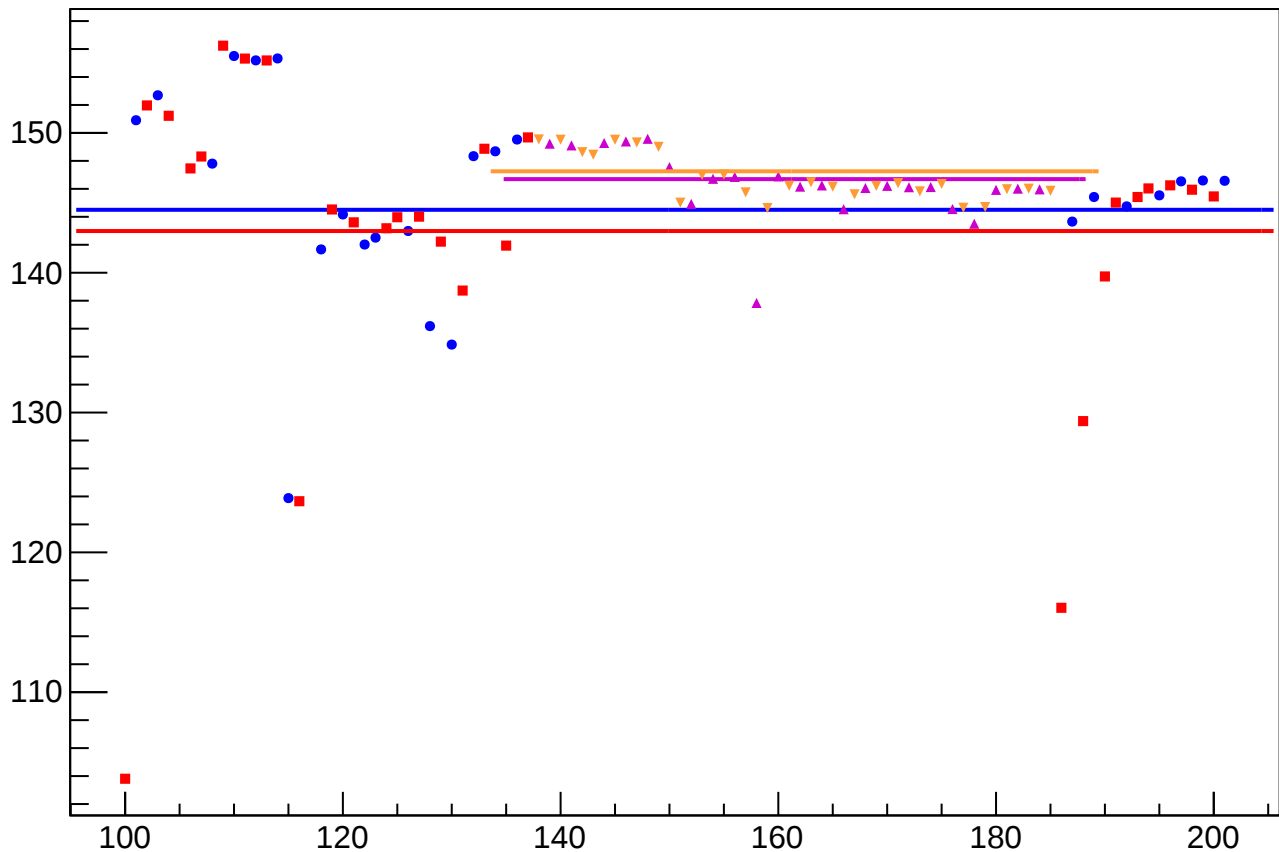
Right: 0.359+/-0.000 χ^2 /NDF: 4232151.0/51

In: 0.399+/-0.000 χ^2 /NDF:4170923.1/46

Out: 0.397+/-0.000 χ^2 /NDF:4351232.1/52

All: 0.398+/-0.000 χ^2 /NDF: 8523268.1/99

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.502 $\pm$ 0.000 χ^2 /NDF: 3207583180.1/23

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 142.983 $\pm$ 0.000 χ^2 /NDF: 7073801222.9/27

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

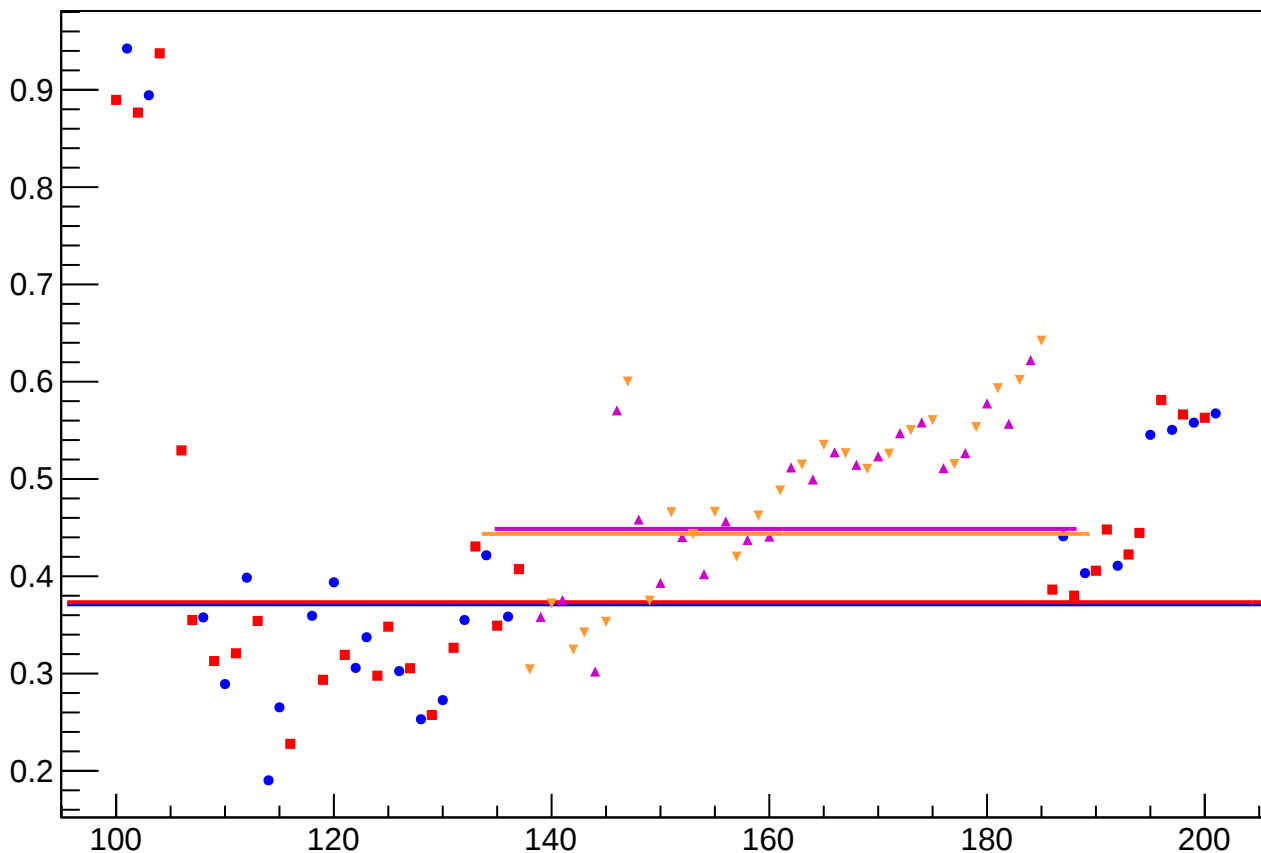
Right: 143.690 $\pm$ 0.000 χ^2 /NDF: 10366718981.0/51

In: 145.689 $\pm$ 0.000 χ^2 /NDF: 3945571450.1/46

Out: 145.216 $\pm$ 0.000 χ^2 /NDF: 8094451565.7/52

All: 145.441 $\pm$ 0.000 χ^2 /NDF: 12057756905.0/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.371+/-0.000 χ^2/NDF : 2138867.7/23

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.373+/-0.000 χ^2/NDF : 1993651.8/27

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

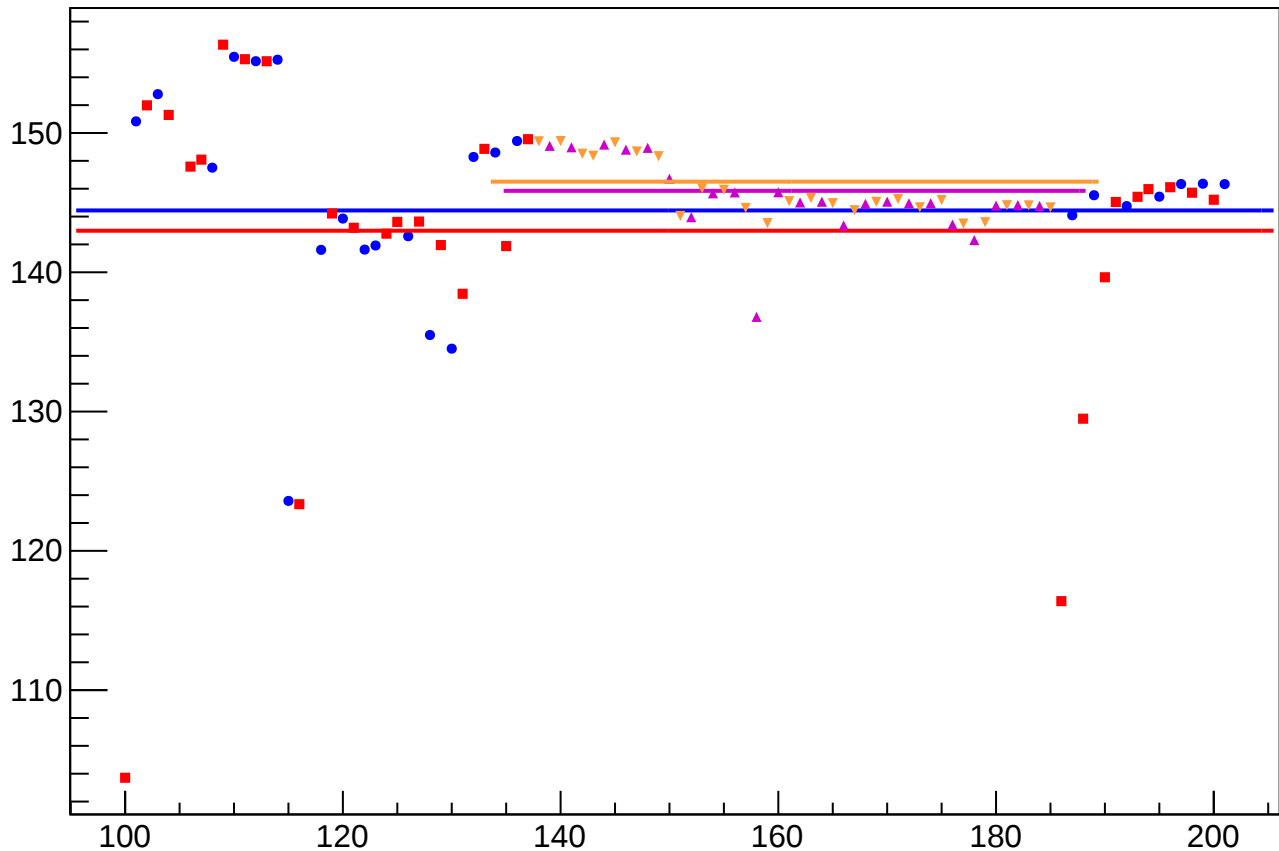
Right: 0.372+/-0.000 χ^2/NDF : 4132871.5/51

In: 0.413+/-0.000 χ^2/NDF :3720975.8/46

Out: 0.410+/-0.000 χ^2/NDF :3887378.4/52

All: 0.411+/-0.000 χ^2/NDF : 7609817.2/99

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.439 $\pm$ 0.000 χ^2/NDF : 3321654659.7/23

Left Out: 146.505 $\pm$ 0.000 χ^2/NDF : 401688176.3/24

Right Out: 142.984 $\pm$ 0.000 χ^2/NDF : 7037945155.1/27

Left In: 145.847 $\pm$ 0.000 χ^2/NDF : 694764545.6/22

Left: 146.187 $\pm$ 0.000 χ^2/NDF : 1114638549.0/47

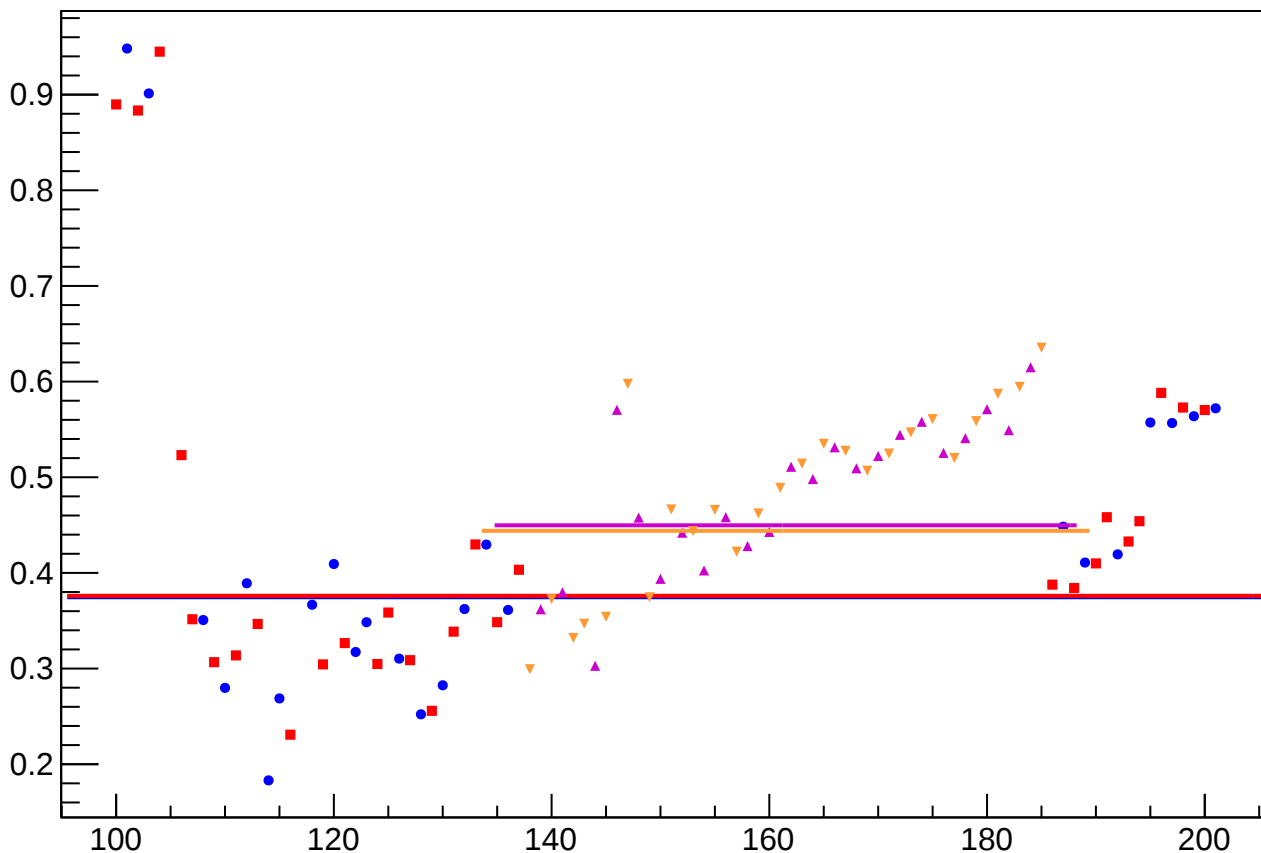
Right: 143.659 $\pm$ 0.000 χ^2/NDF : 10436274316.4/51

In: 145.207 $\pm$ 0.000 χ^2/NDF : 4089514619.9/46

Out: 144.839 $\pm$ 0.000 χ^2/NDF : 7949441054.8/52

All: 145.013 $\pm$ 0.000 χ^2/NDF : 12049581911.1

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.375+/-0.000 χ^2/NDF : 2175479.8/23

Left Out: 0.444+/-0.000 χ^2/NDF :1463293.5/24

Right Out: 0.376+/-0.000 χ^2/NDF : 2013387.0/27

Left In: 0.450+/-0.000 χ^2/NDF :1105405.0/22

Left: 0.447+/-0.000 χ^2/NDF : 2571486.5/47

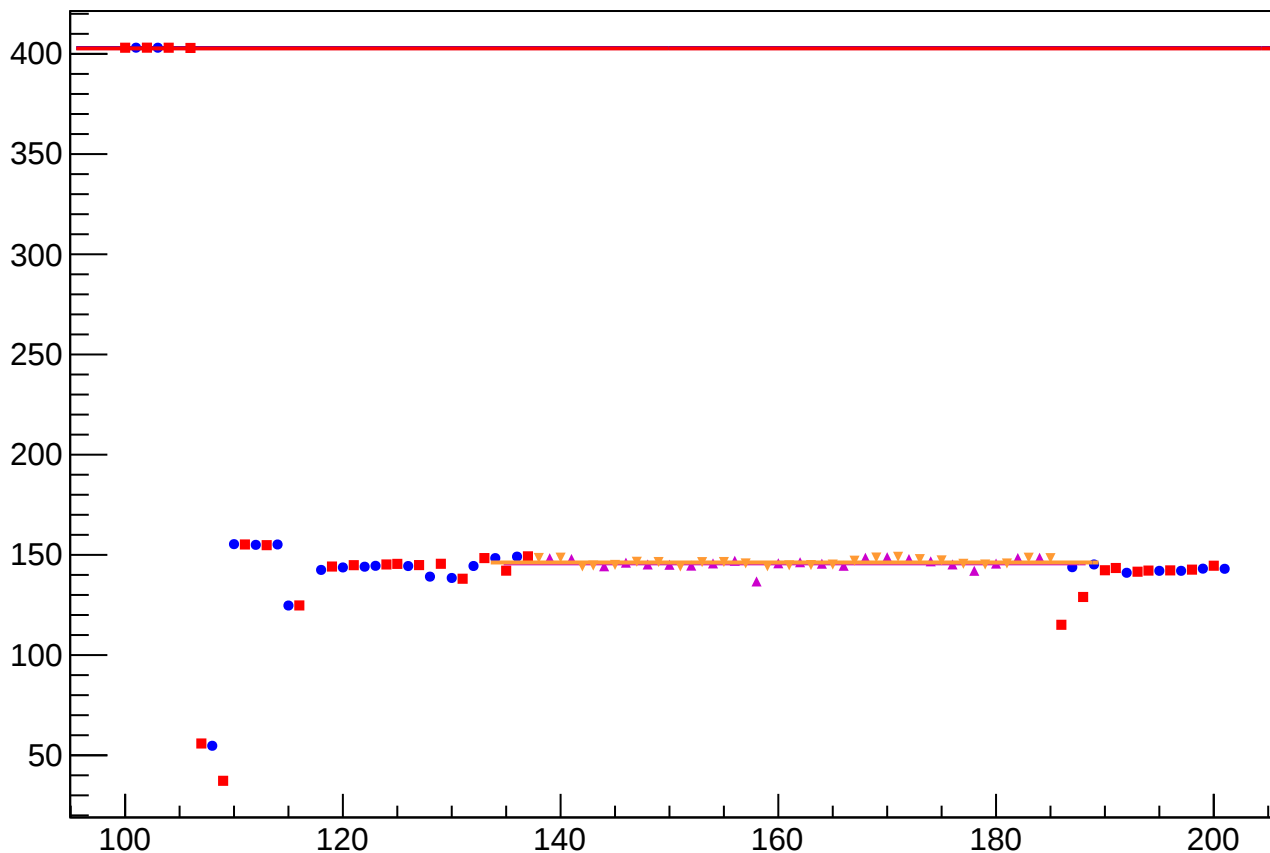
Right: 0.375+/-0.000 χ^2/NDF : 4189028.4/51

In: 0.416+/-0.000 χ^2/NDF :3698051.1/46

Out: 0.412+/-0.000 χ^2/NDF :3856420.2/52

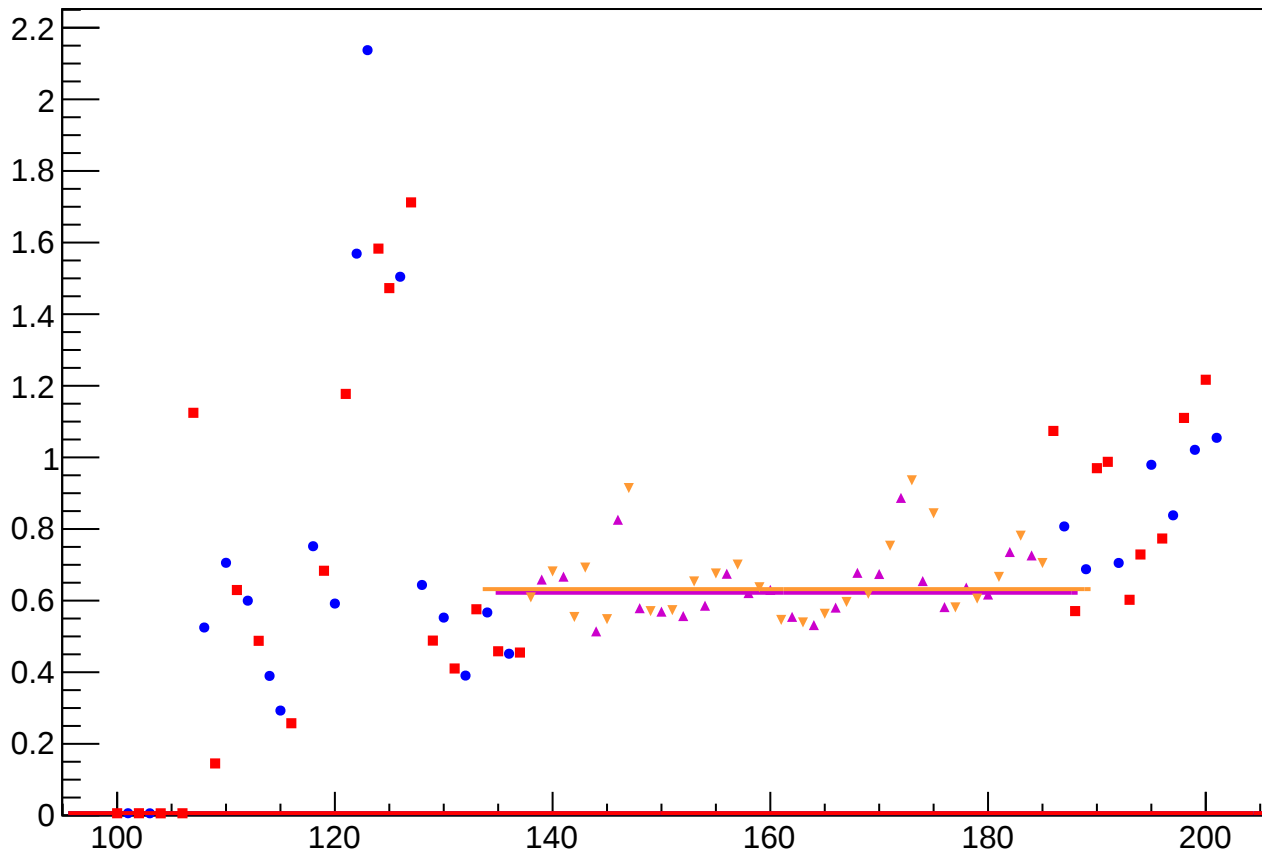
All: 0.414+/-0.000 χ^2/NDF : 7556675.8/99

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.917 $\pm$ 0.000 χ^2 /NDF: 1426188433079.6/23
 Left Out: 146.205 $\pm$ 0.000 χ^2 /NDF: 86658381.3/24
 Right Out: 402.737 $\pm$ 0.000 χ^2 /NDF: 3678986281398.8/27
 Left In: 145.773 $\pm$ 0.000 χ^2 /NDF: 207332354.9/22
 Left: 145.990 $\pm$ 0.000 χ^2 /NDF: 297342055.1/47
 Right: 402.821 $\pm$ 0.000 χ^2 /NDF: 5105707951914.5
 In: 402.623 $\pm$ 0.000 χ^2 /NDF: 3775474029465.4/40
 Out: 402.475 $\pm$ 0.000 χ^2 /NDF: 6047230286057.1/5
 All: 402.545 $\pm$ 0.000 χ^2 /NDF: 98230673395

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 16169998.2/23

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 18699170.0/27

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

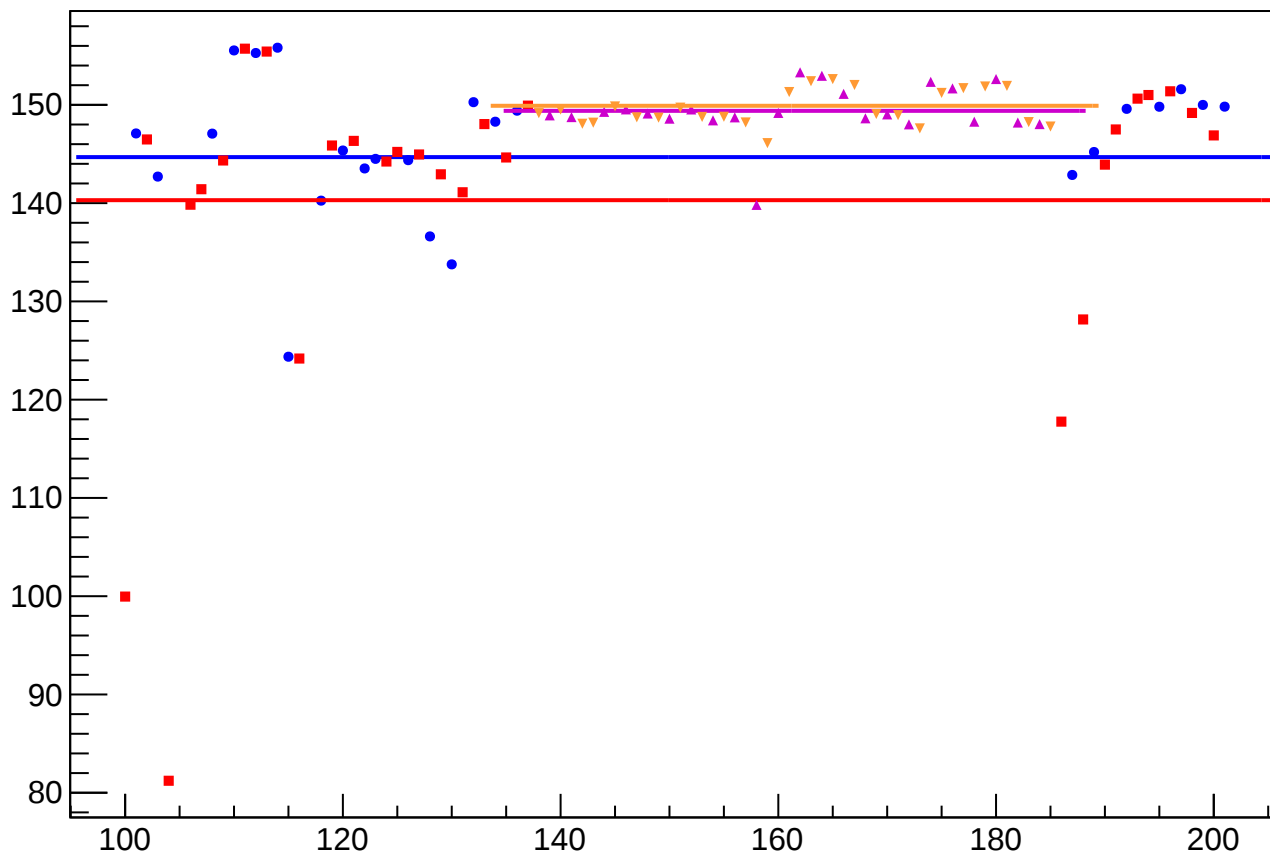
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 34869195.2/51

In: 0.007 $\pm$ 0.000 χ^2 /NDF:43489115.7/46

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:47482216.2/52

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 90971372.2/99

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 144.682 $\pm$ 0.000 χ^2/NDF : 1241030751.1/23

Left Out: 149.906 $\pm$ 0.000 χ^2/NDF : 163261802.4/24

Right Out: 140.300 $\pm$ 0.000 χ^2/NDF : 3028830740.1/27

Left In: 149.391 $\pm$ 0.000 χ^2/NDF : 437129920.4/22

Left: 149.657 $\pm$ 0.000 χ^2/NDF : 606930259.3/47

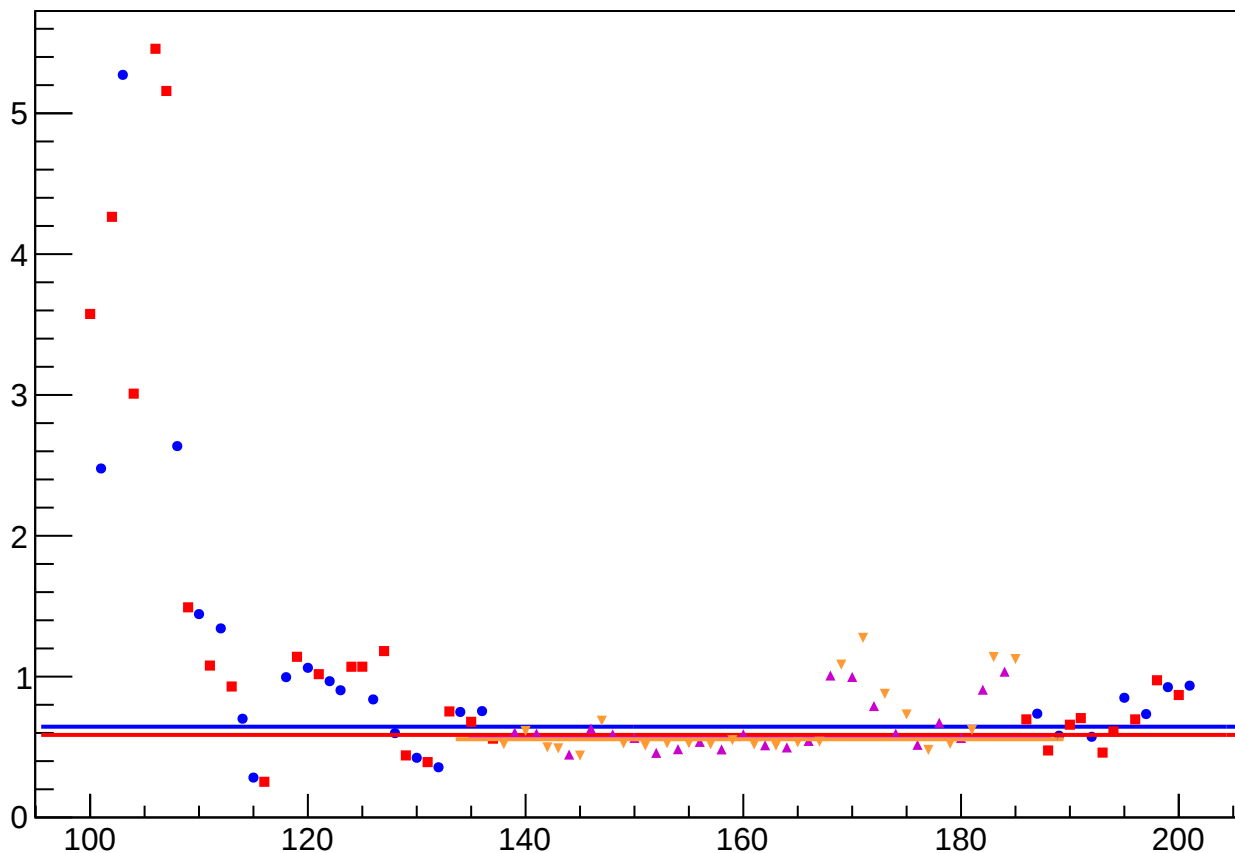
Right: 142.153 $\pm$ 0.000 χ^2/NDF : 4458718246.2/51

In: 148.150 $\pm$ 0.000 χ^2/NDF : 1956248382.0/46

Out: 146.895 $\pm$ 0.000 χ^2/NDF : 4665244428.2/52

All: 147.479 $\pm$ 0.000 χ^2/NDF : 6675899787.4

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.644 $\pm$ 0.000 χ^2 /NDF: 3932549.4/23

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.586 $\pm$ 0.000 χ^2 /NDF: 5275129.4/27

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

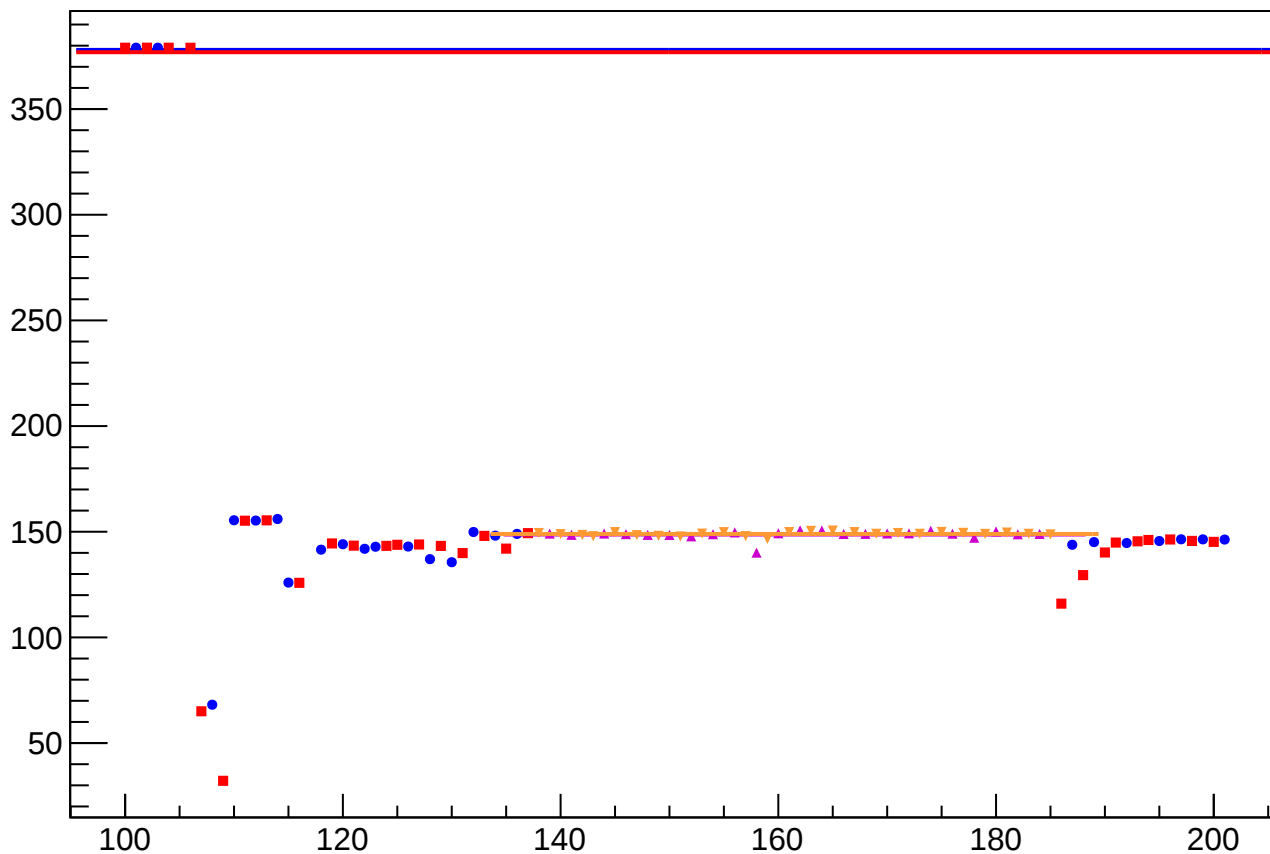
Right: 0.611 $\pm$ 0.000 χ^2 /NDF: 9274495.4/51

In: 0.584 $\pm$ 0.000 χ^2 /NDF:5413770.8/46

Out: 0.565 $\pm$ 0.000 χ^2 /NDF:7078662.4/52

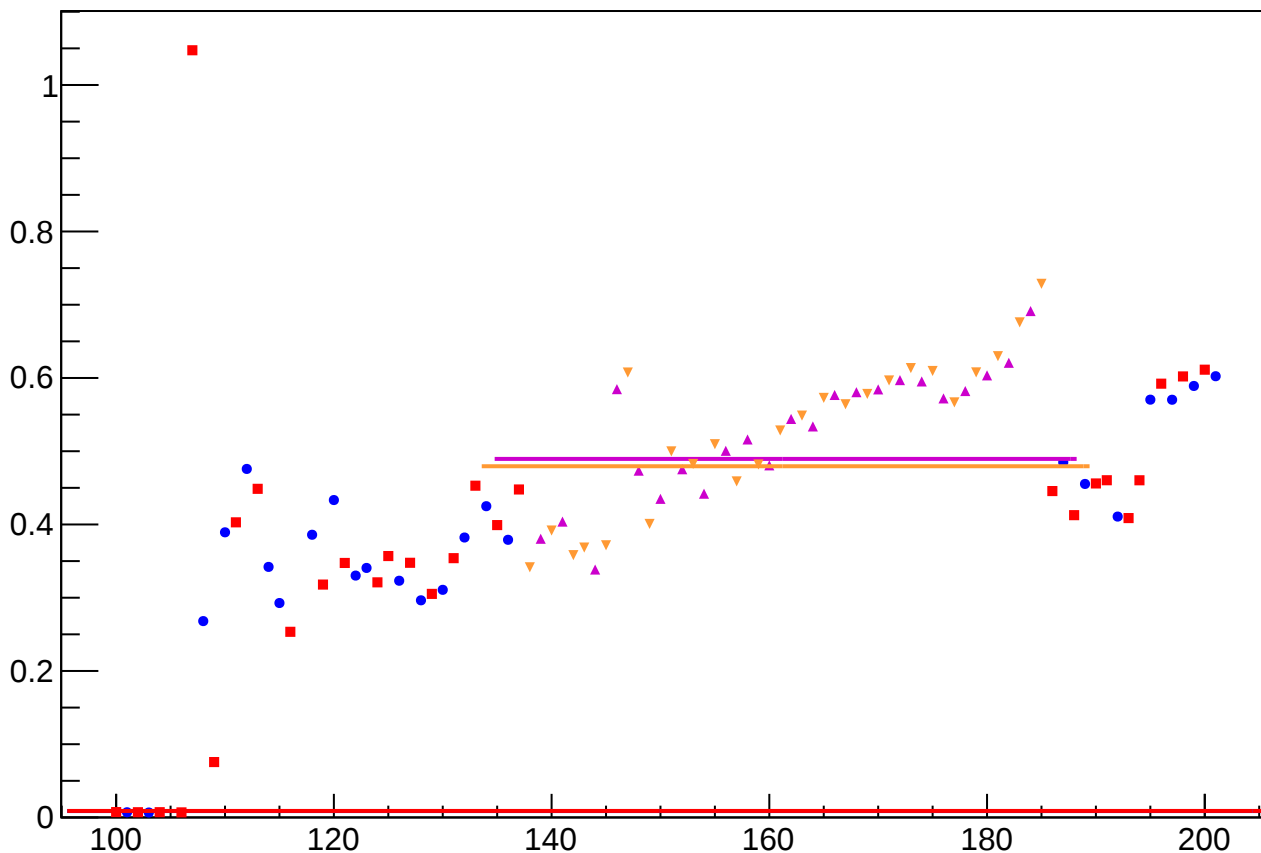
All: 0.574 $\pm$ 0.000 χ^2 /NDF: 12516702.8/99

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.998 $\pm$ 0.000 χ^2 /NDF: 3388697130449.4/23
 Left Out: 148.946 $\pm$ 0.000 χ^2 /NDF: 63974844.7/24
 Right Out: 376.911 $\pm$ 0.000 χ^2 /NDF: 9645705616206.8/27
 Left In: 148.683 $\pm$ 0.000 χ^2 /NDF: 253848207.3/22
 Left: 148.820 $\pm$ 0.000 χ^2 /NDF: 320306424.2/47
 Right: 377.419 $\pm$ 0.000 χ^2 /NDF: 13042803531962.0
 In: 376.819 $\pm$ 0.000 χ^2 /NDF: 6993925655006.0/46
 Out: 375.794 $\pm$ 0.000 χ^2 /NDF: 13517030922394.3
 All: 376.273 $\pm$ 0.000 χ^2 /NDF: 205184586626.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 18397133.5/23

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 20415446.0/27

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

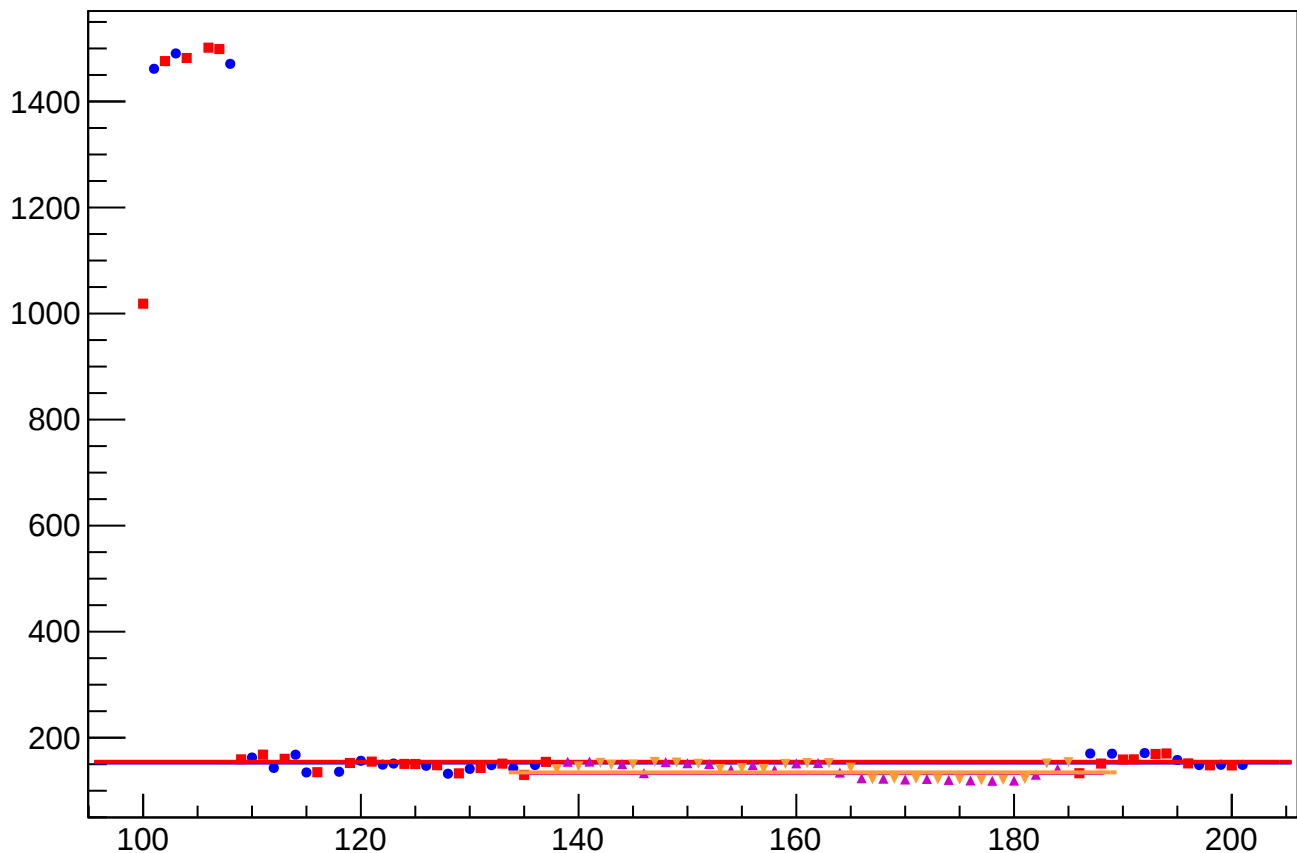
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 38812882.9/51

In: 0.011 $\pm$ 0.000 χ^2 /NDF:51179497.7/46

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:54929667.4/52

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 106109171.2/99

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 153.145+/-0.000

χ^2/NDF : 25515931481.5/23

Left: 133.958+/-0.000

χ^2/NDF : 8759337937.7/47

Left Out: 134.585+/-0.000

χ^2/NDF : 4387324151.1/24

Right: 153.925+/-0.000

χ^2/NDF : 60359005501.9/51

Right Out: 154.581+/-0.000

χ^2/NDF : 34827735547.2/27

In: 140.720+/-0.000

χ^2/NDF : 33242100141.7/46

Out: 142.719+/-0.000

χ^2/NDF : 43076682554.4/52

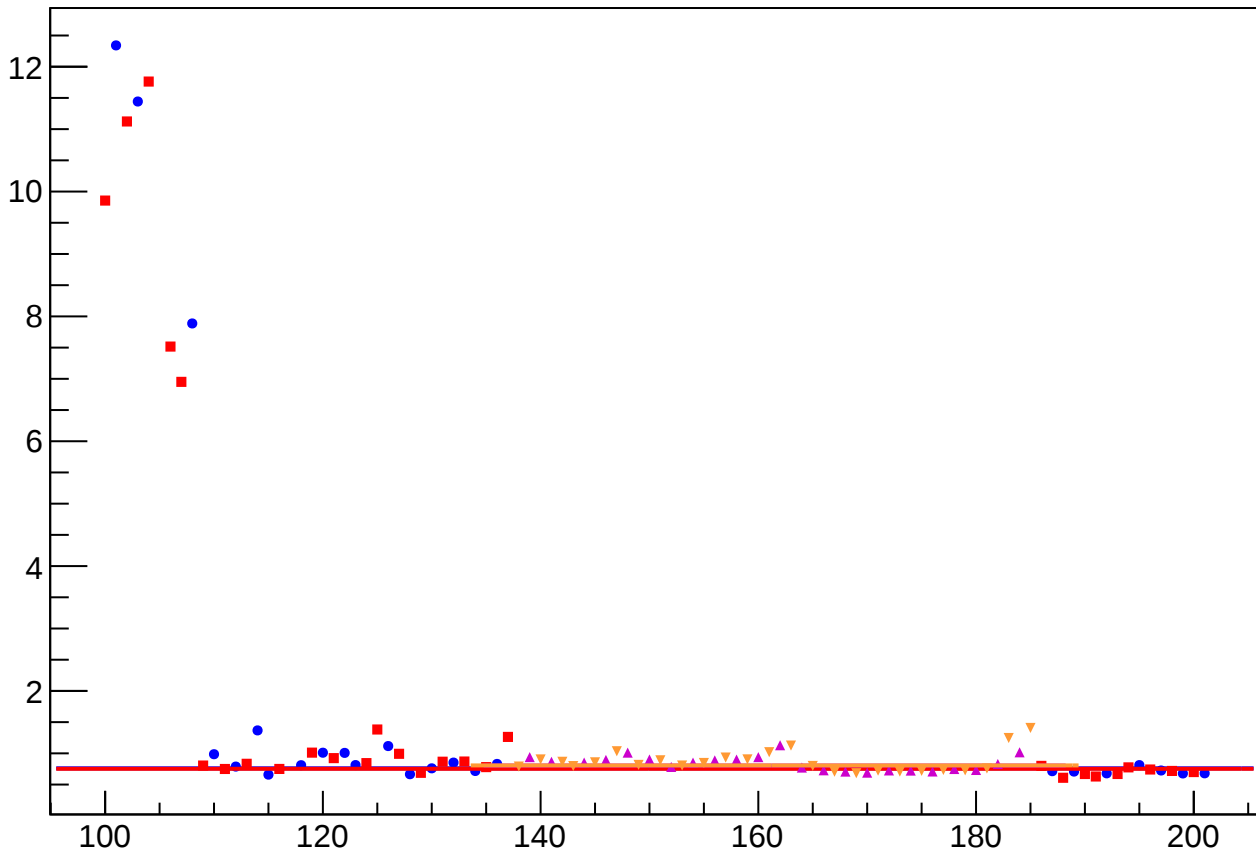
Left In: 133.309+/-0.000

χ^2/NDF : 4353039408.6/22

All: 141.764+/-0.000

χ^2/NDF : 76395255052.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.760 $\pm$ 0.000 χ^2 /NDF: 2828372.4/23

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF: 704181.3/24

Right Out: 0.753 $\pm$ 0.000 χ^2 /NDF: 3140513.5/27

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

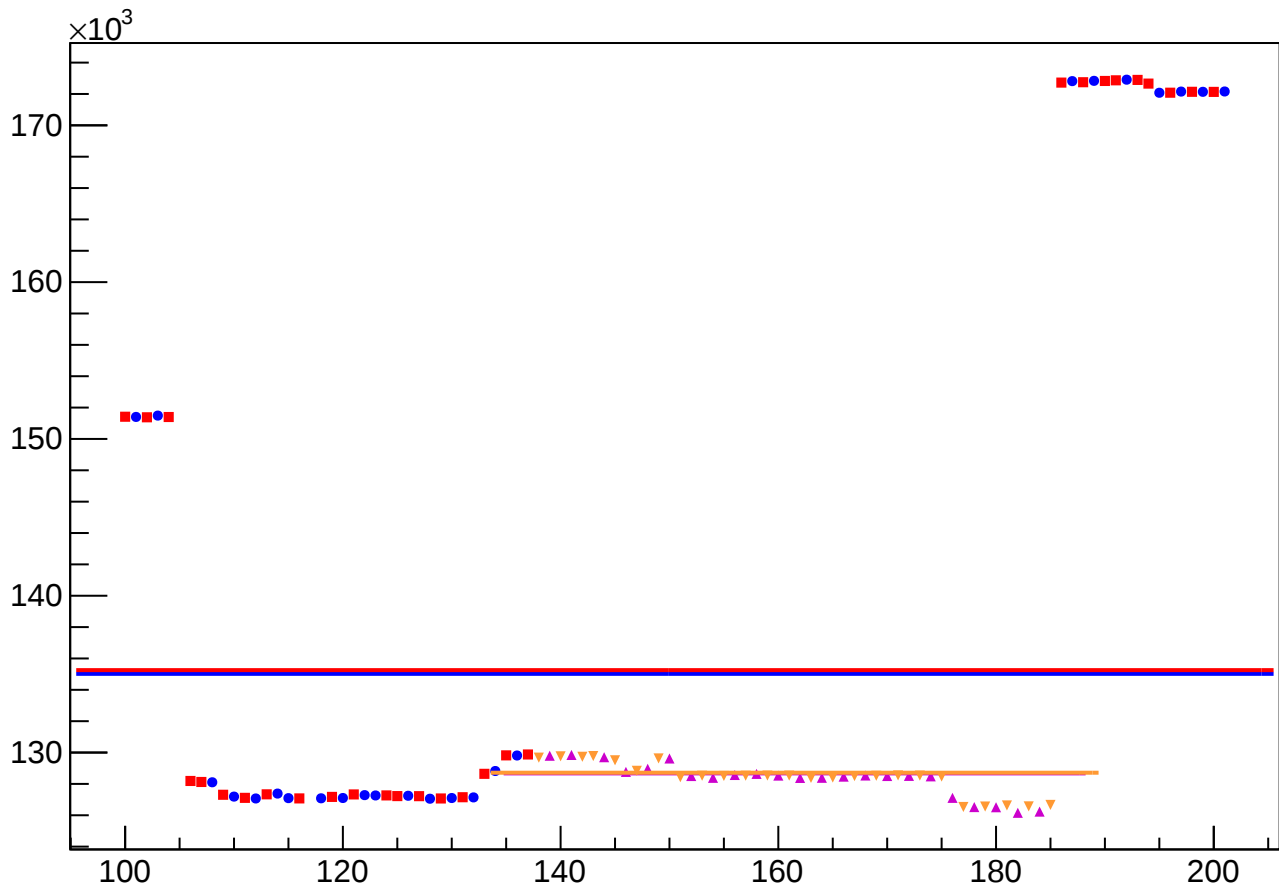
Right: 0.756 $\pm$ 0.000 χ^2 /NDF: 5969694.9/51

In: 0.788 $\pm$ 0.000 χ^2 /NDF: 3342059.8/46

Out: 0.785 $\pm$ 0.000 χ^2 /NDF: 3901095.5/52

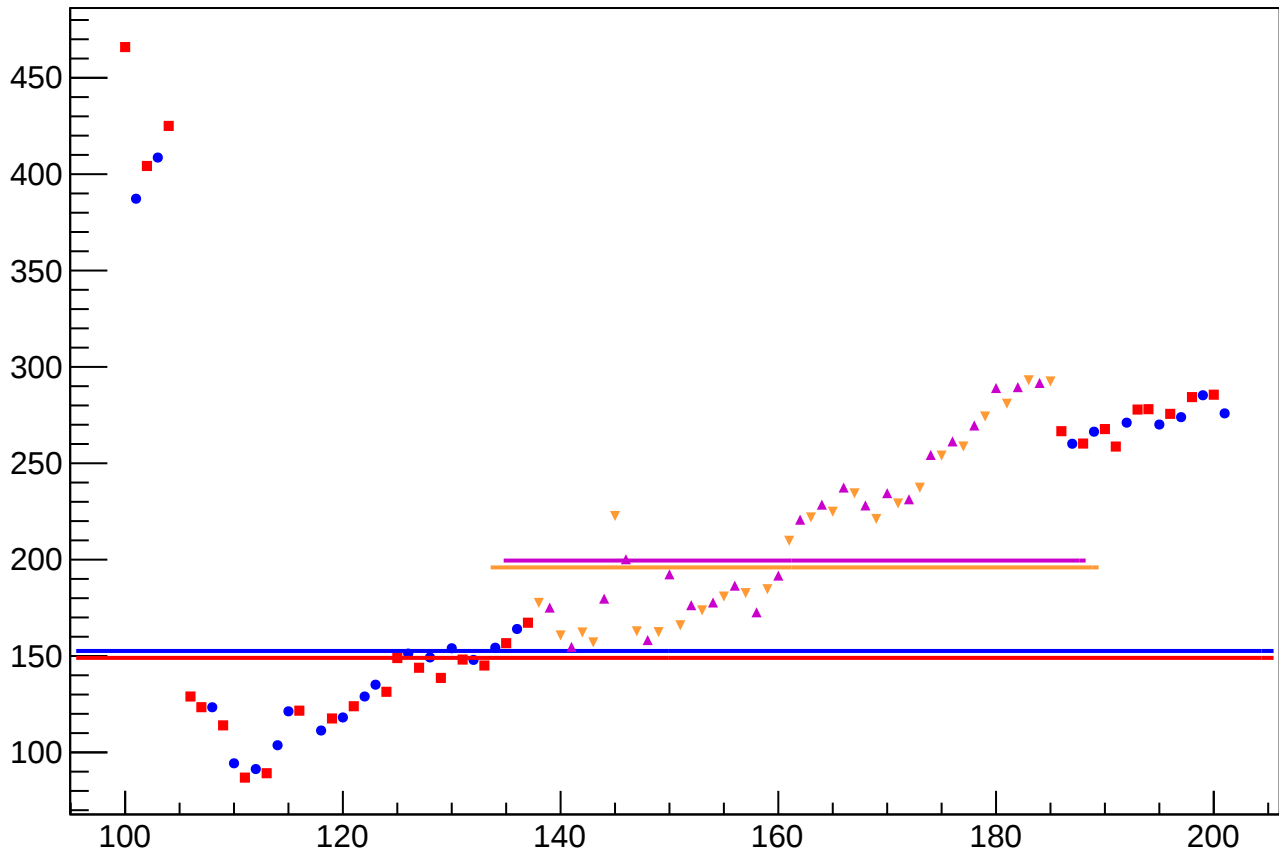
All: 0.786 $\pm$ 0.000 χ^2 /NDF: 7243550.5/99

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 135019.360+/-0.050 χ^2/NDF : 108234833939.0/23
 Left Out: 128713.791+/-0.047 χ^2/NDF : 348293942.5/24
 Right Out: 135256.015+/-0.046 χ^2/NDF : 132495150504.7/27
 Left In: 128670.094+/-0.049 χ^2/NDF : 334875494.0/22
 Left: 128692.941+/-0.034 χ^2/NDF : 683588051.4/47
 Right: 135147.714+/-0.034 χ^2/NDF : 240742066566.0/24
 In: 131760.898+/-0.035 χ^2/NDF : 116798878605.7/24
 Out: 132026.816+/-0.033 χ^2/NDF : 142802442266.0/24
 All: 131902.513+/-0.024 χ^2/NDF : 259632090.0/24

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 152.622 $\pm$ 0.035 χ^2 /NDF: 3672068.3/23

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 149.029 $\pm$ 0.033 χ^2 /NDF: 4442397.3/27

Left In: 199.531 $\pm$ 0.035 χ^2 /NDF:1175342.5/22

Left: 197.666 $\pm$ 0.024 χ^2 /NDF: 2497014.2/47

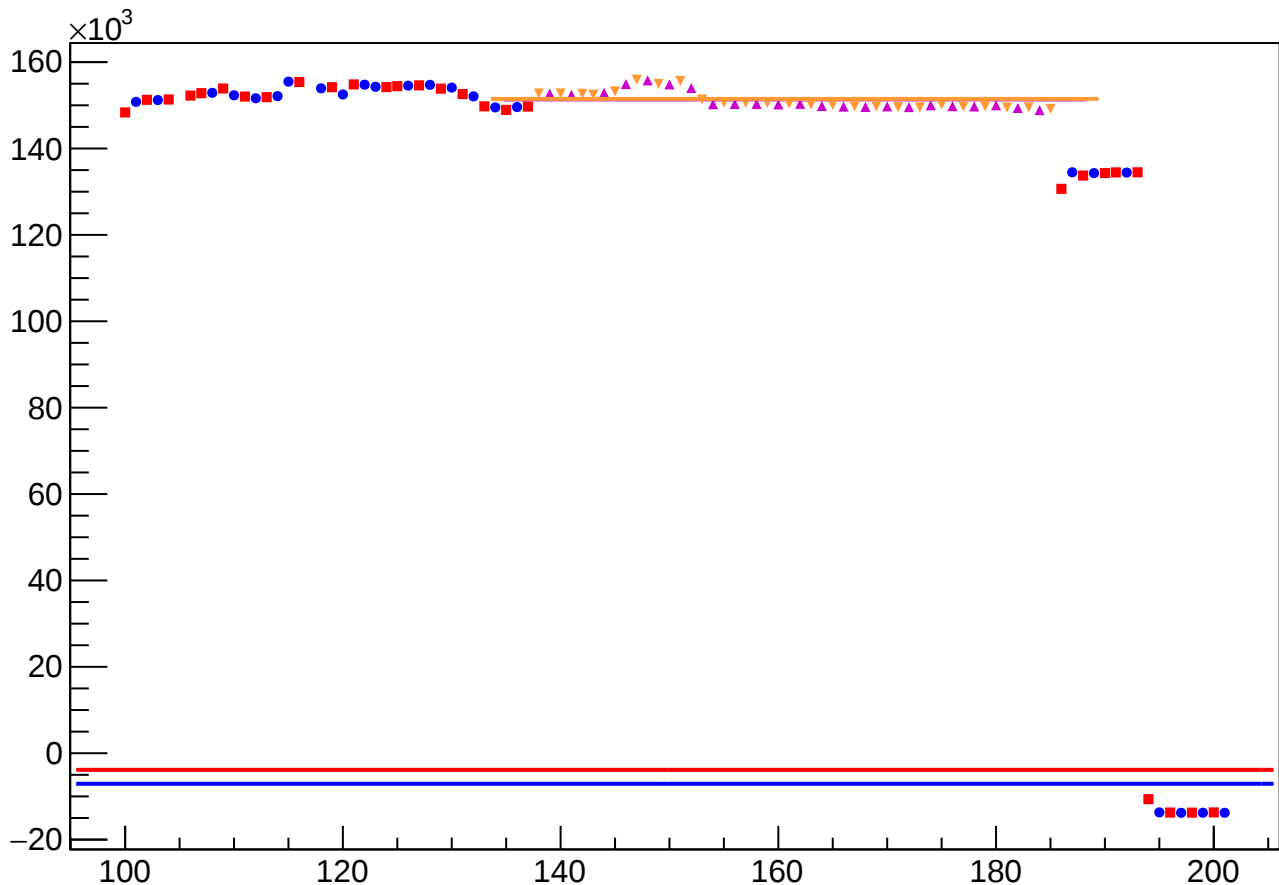
Right: 150.673 $\pm$ 0.024 χ^2 /NDF: 8120033.9/51

In: 176.696 $\pm$ 0.025 χ^2 /NDF:5745784.3/46

Out: 172.196 $\pm$ 0.023 χ^2 /NDF:6783618.5/52

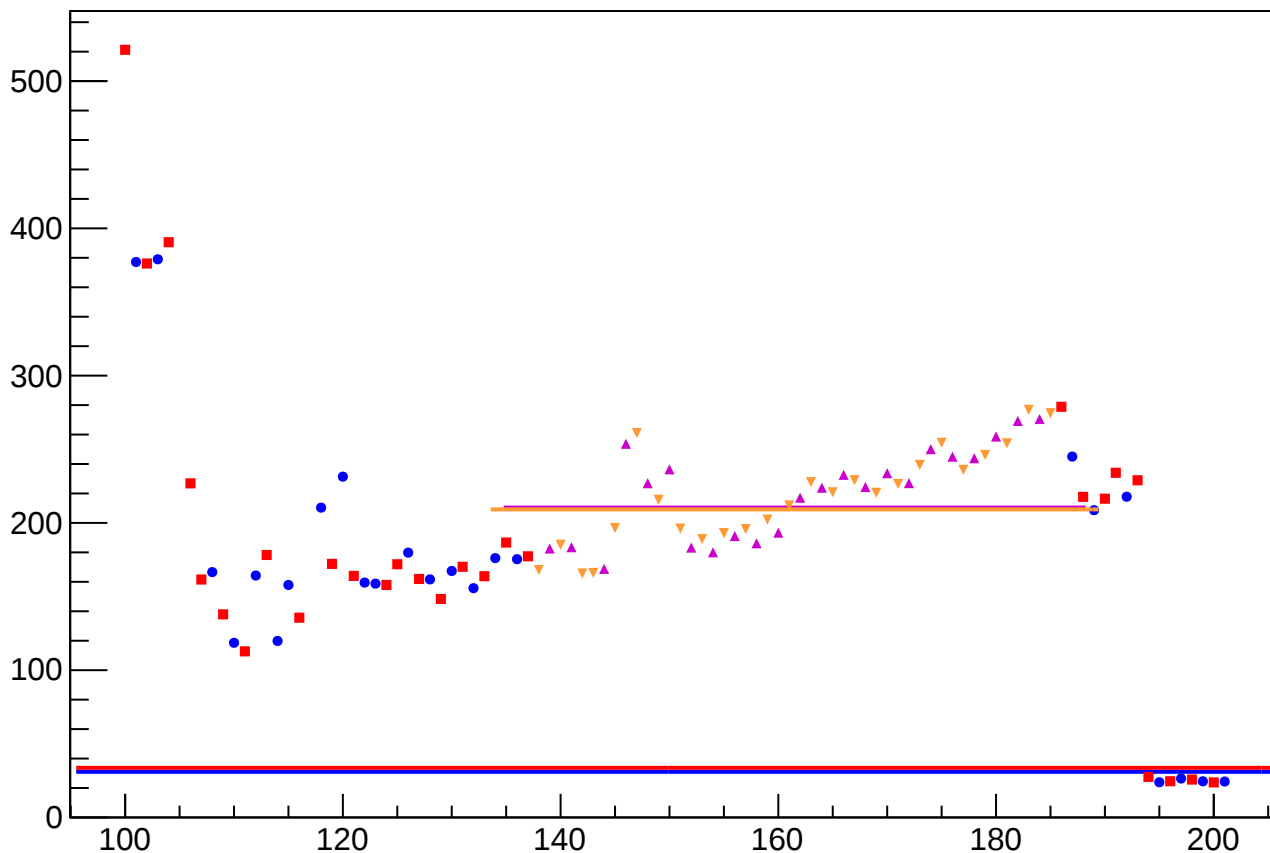
All: 174.299 $\pm$ 0.017 χ^2 /NDF: 12547025.3/99

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -7072.437 $\pm$ 0.014	χ^2/NDF : 5728915391104.3/23	Left: 151423.440 $\pm$ 0.036	χ^2/NDF : 2913216467.1/23
Left Out: 151480.339 $\pm$ 0.049	χ^2/NDF : 1483692735.3/24	Right: -5570.337 $\pm$ 0.010	χ^2/NDF : 1268752440991.0/24
Right Out: -3843.254 $\pm$ 0.015	χ^2/NDF : 6932206772616.7/27	In: 3295.069 $\pm$ 0.013	χ^2/NDF : 14671099353277.0/27
Left In: 151362.440 $\pm$ 0.051	χ^2/NDF : 1426782789.9/22	Out: 8497.237 $\pm$ 0.014	χ^2/NDF : 16007819810491.0/22
		All: 5734.494 $\pm$ 0.010	χ^2/NDF : 30752830763.0/22

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 30.997+/-0.010 χ^2/NDF : 11137874.8/23

Left Out: 209.156+/-0.035 χ^2/NDF : 710094.9/24

Right Out: 33.717+/-0.010 χ^2/NDF : 13046405.5/27

Left In: 210.431+/-0.036 χ^2/NDF : 684015.0/22

Left: 209.771+/-0.025 χ^2/NDF : 1394750.9/47

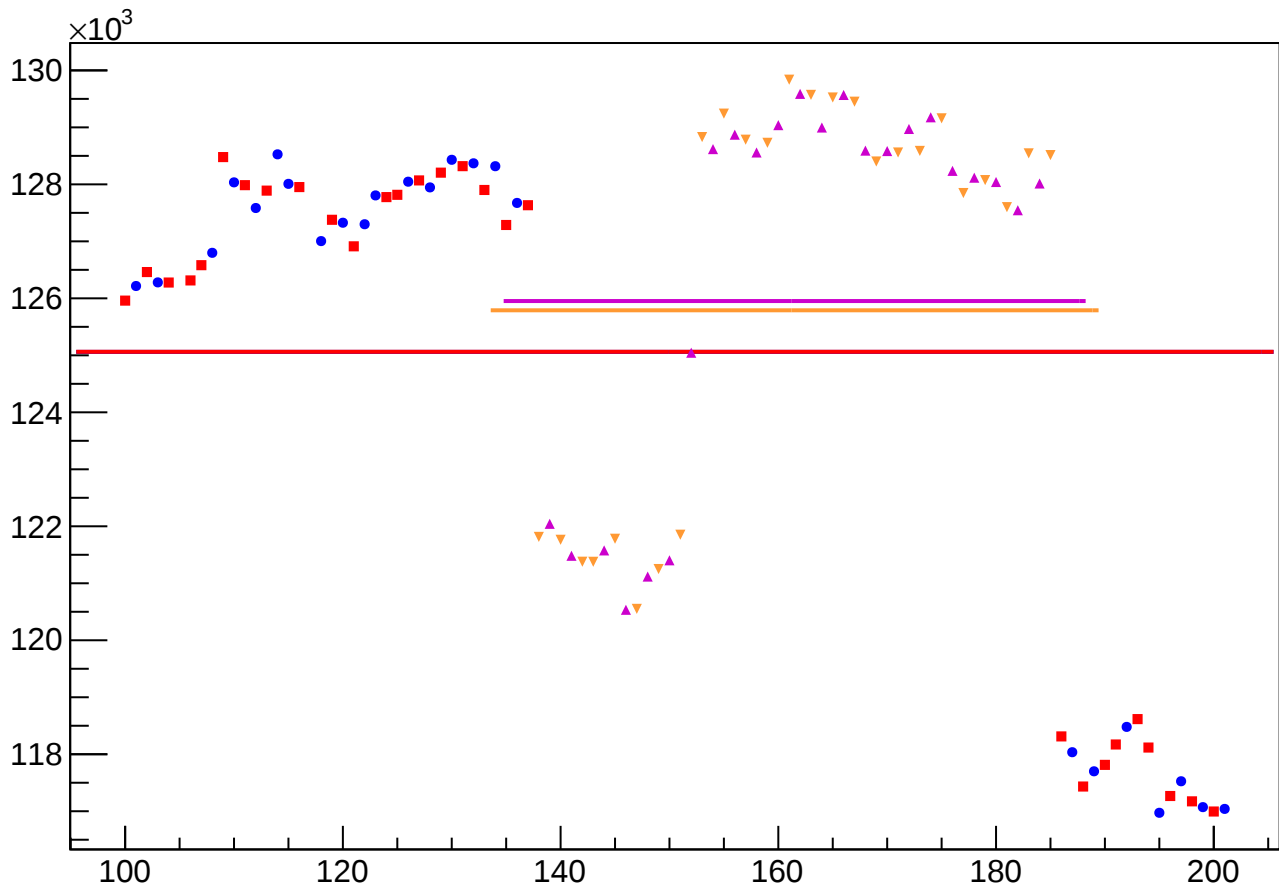
Right: 32.262+/-0.007 χ^2/NDF : 24221760.1/51

In: 42.738+/-0.009 χ^2/NDF : 34757575.2/46

Out: 47.656+/-0.010 χ^2/NDF : 36909607.5/52

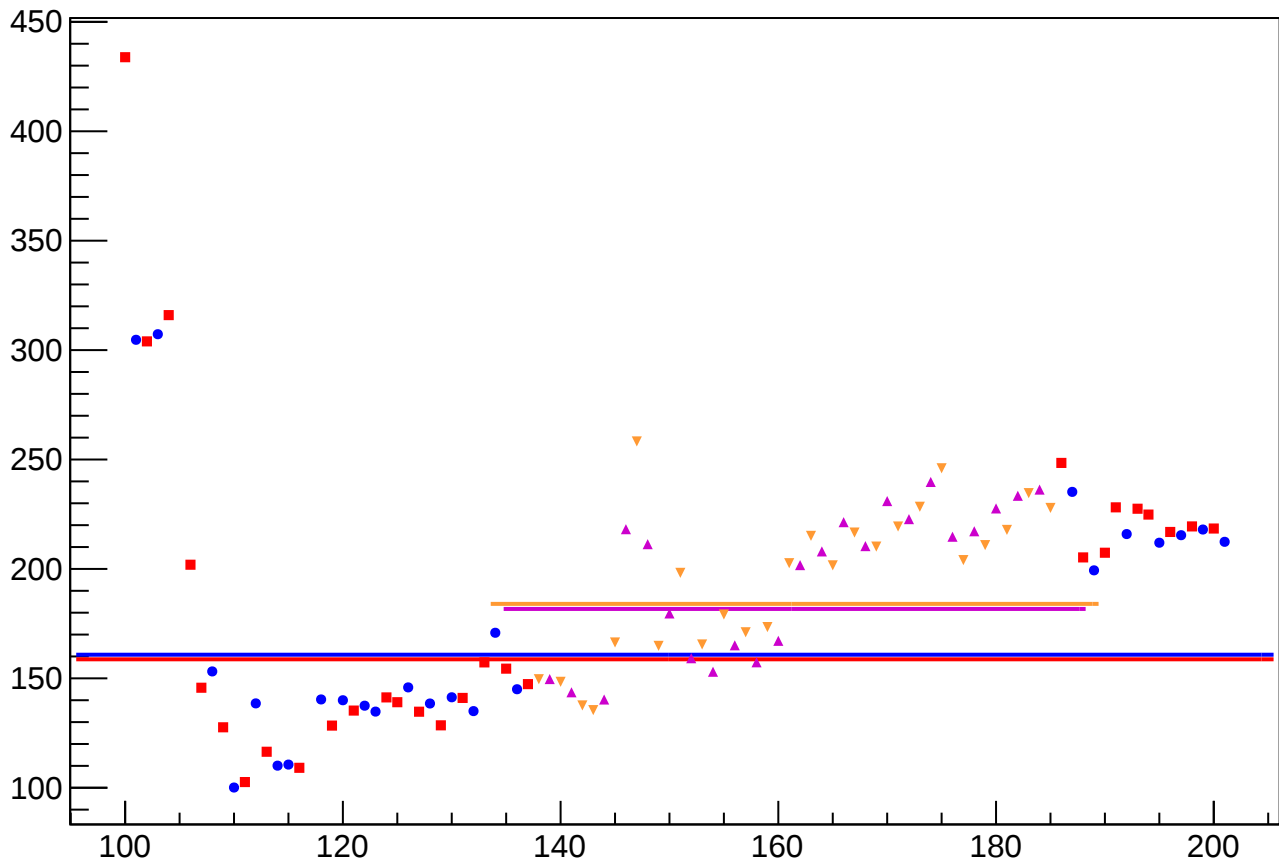
All: 45.044+/-0.007 χ^2/NDF : 71799272.7/99

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 125060.036 $\pm$ 0.050	χ^2 /NDF: 8097984773.7/23	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6/23
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 125061.243 $\pm$ 0.034	χ^2 /NDF: 17269657728.1/24
Right Out: 125062.289 $\pm$ 0.047	χ^2 /NDF: 9171671877.5/27	In: 125558.734 $\pm$ 0.033	χ^2 /NDF: 14115923501.4/27
Left In: 125952.447 $\pm$ 0.045	χ^2 /NDF: 5841800367.5/22	Out: 125448.909 $\pm$ 0.032	χ^2 /NDF: 16044489113.8/22
		All: 125501.561 $\pm$ 0.023	χ^2 /NDF: 30166045113.8/23

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 160.797 $\pm$ 0.036 χ^2 /NDF: 1619082.2/23

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 158.697 $\pm$ 0.033 χ^2 /NDF: 2181464.9/27

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

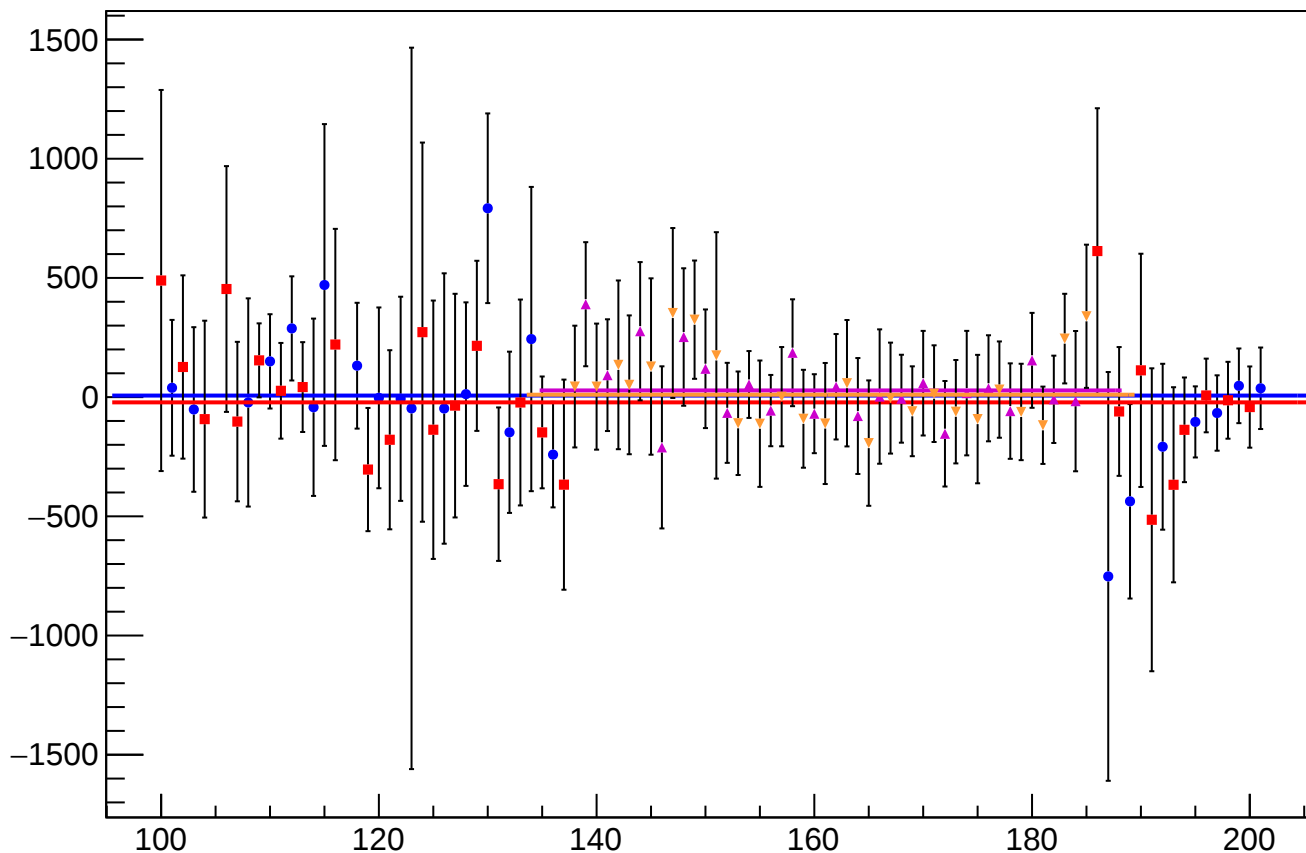
Right: 159.672 $\pm$ 0.024 χ^2 /NDF: 3802416.1/51

In: 172.486 $\pm$ 0.024 χ^2 /NDF: 2928763.1/46

Out: 172.153 $\pm$ 0.023 χ^2 /NDF: 3619394.4/52

All: 172.313 $\pm$ 0.016 χ^2 /NDF: 6548260.6/99

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 6.532 ± 54.840 χ^2/NDF : 11.7/23

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -22.020 ± 52.119 χ^2/NDF : 10.1/27

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

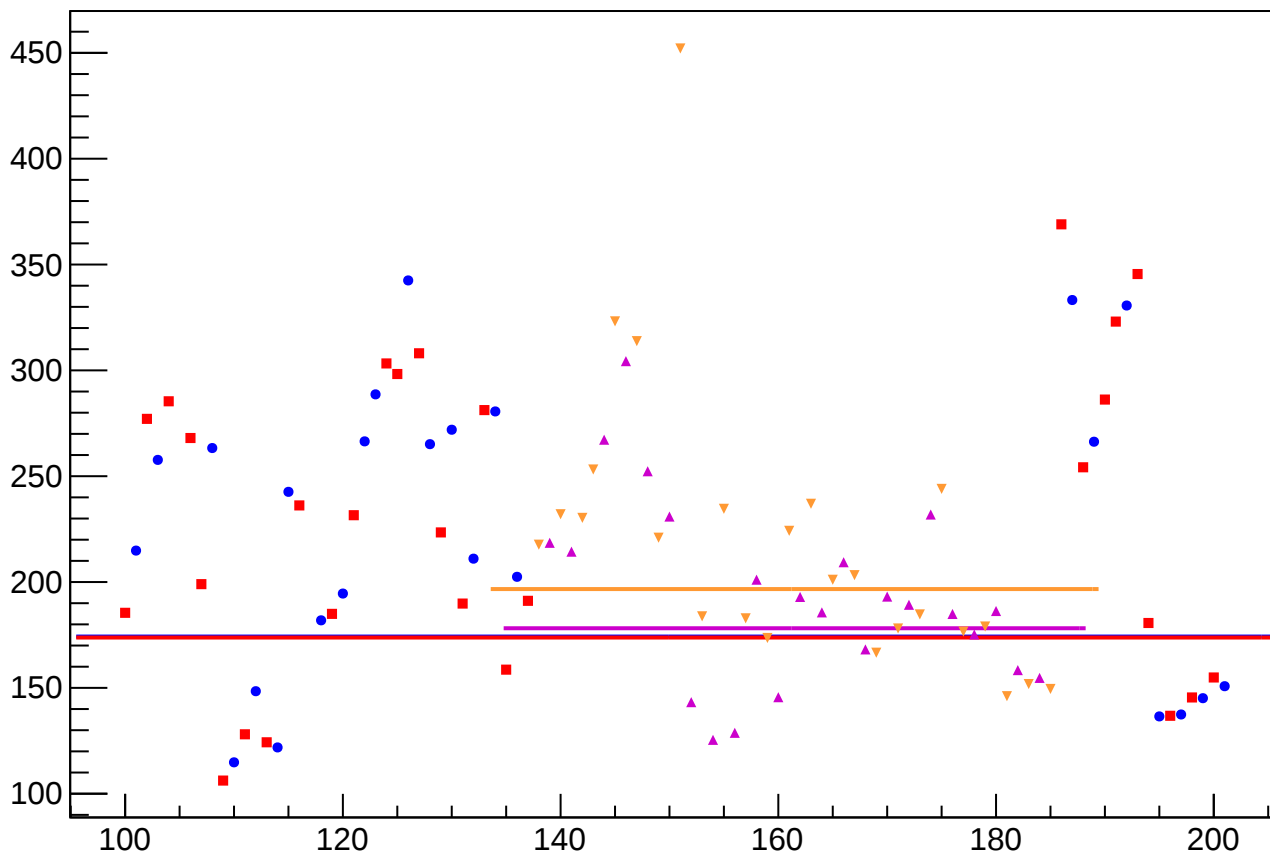
Right: -8.470 ± 37.779 χ^2/NDF : 21.9/51

In: 19.490 ± 34.589 χ^2/NDF : 18.7/46

Out: -4.482 ± 35.102 χ^2/NDF : 18.8/52

All: 7.680 ± 24.638 χ^2/NDF : 37.7/99

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 174.245 $\pm$ 0.039 χ^2 /NDF: 2059099.9/23

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 173.782 $\pm$ 0.037 χ^2 /NDF: 2736528.2/27

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

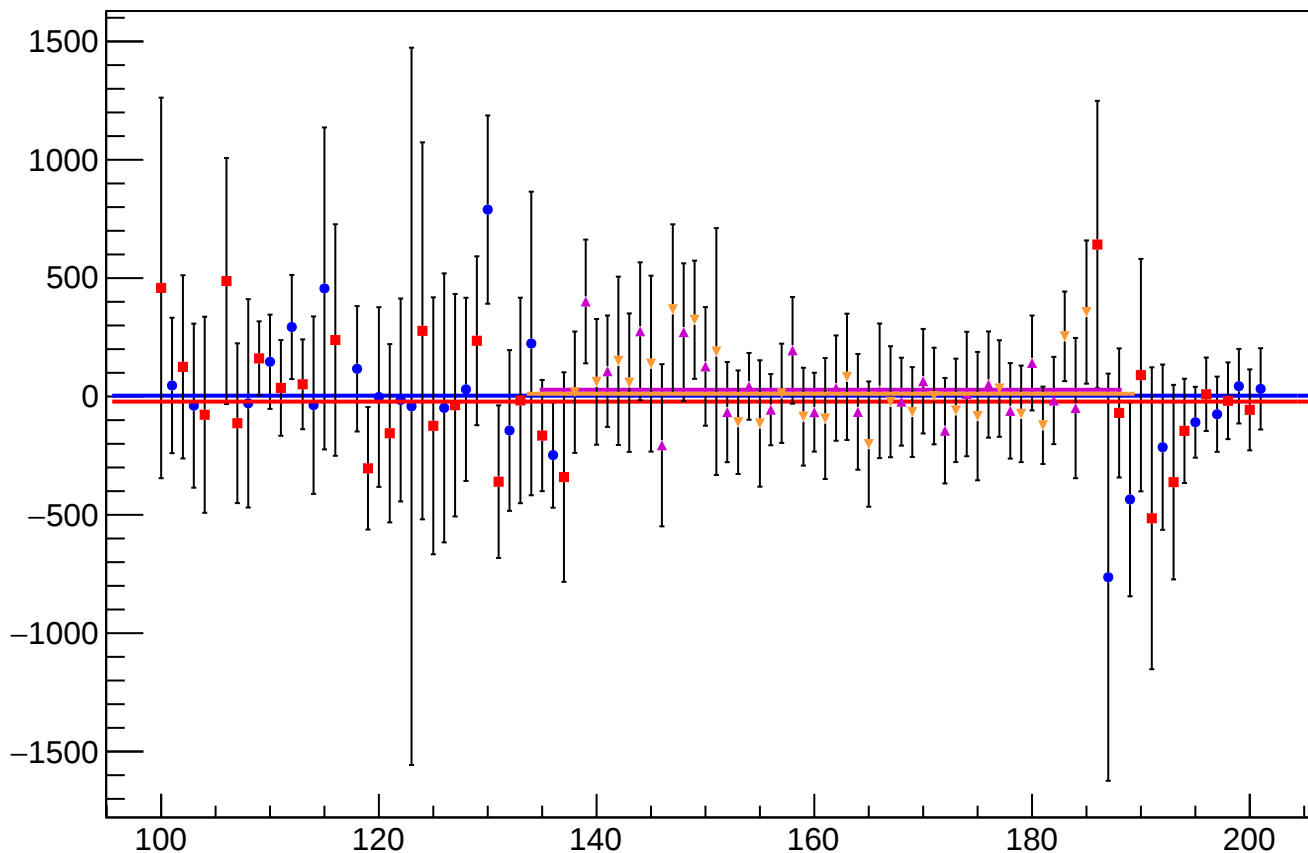
Right: 174.002 $\pm$ 0.027 χ^2 /NDF: 4795702.9/51

In: 176.606 $\pm$ 0.024 χ^2 /NDF:3684223.9/46

Out: 186.294 $\pm$ 0.025 χ^2 /NDF:4730206.6/52

All: 181.379 $\pm$ 0.017 χ^2 /NDF: 8491726.7/99

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 3.396 $\pm$ 55.106 χ^2/NDF : 11.7/23

Left Out: 11.479 $\pm$ 47.819 χ^2/NDF : 8.8/24

Right Out: -21.583 $\pm$ 52.386 χ^2/NDF : 10.4/27

Left In: 28.280 $\pm$ 44.863 χ^2/NDF : 7.1/22

Left: 20.415 $\pm$ 32.718 χ^2/NDF : 16.0/47

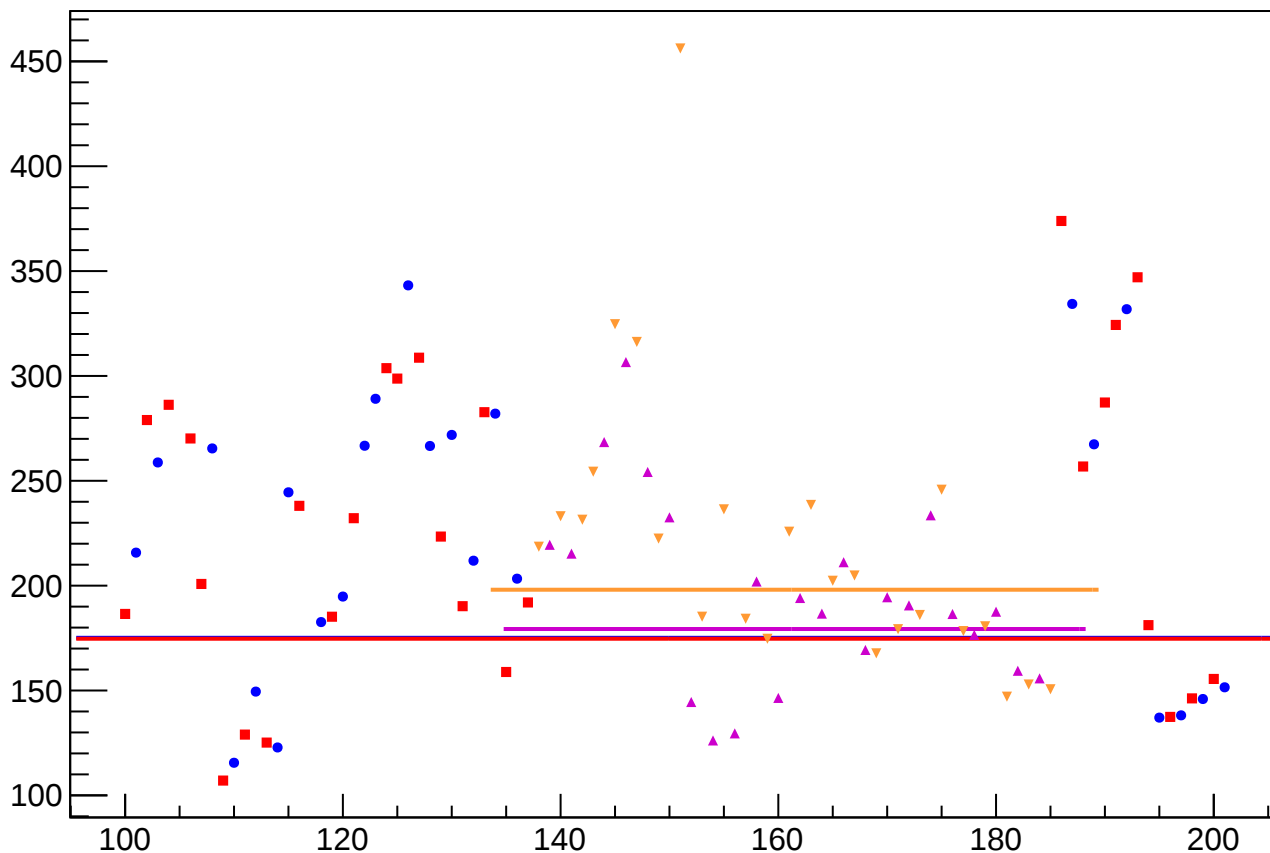
Right: -9.725 $\pm$ 37.968 χ^2/NDF : 22.2/51

In: 18.361 $\pm$ 34.791 χ^2/NDF : 18.9/46

Out: -3.548 $\pm$ 35.318 χ^2/NDF : 19.4/52

All: 7.571 $\pm$ 24.785 χ^2/NDF : 38.5/99

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 175.128 ± 0.039 χ^2/NDF : 2049673.9/23

Left Out: 198.059 ± 0.034 χ^2/NDF : 1778526.5/24

Right Out: 174.692 ± 0.037 χ^2/NDF : 2731052.7/27

Left In: 179.324 ± 0.032 χ^2/NDF : 1618266.2/22

Left: 188.094 ± 0.023 χ^2/NDF : 3560073.1/47

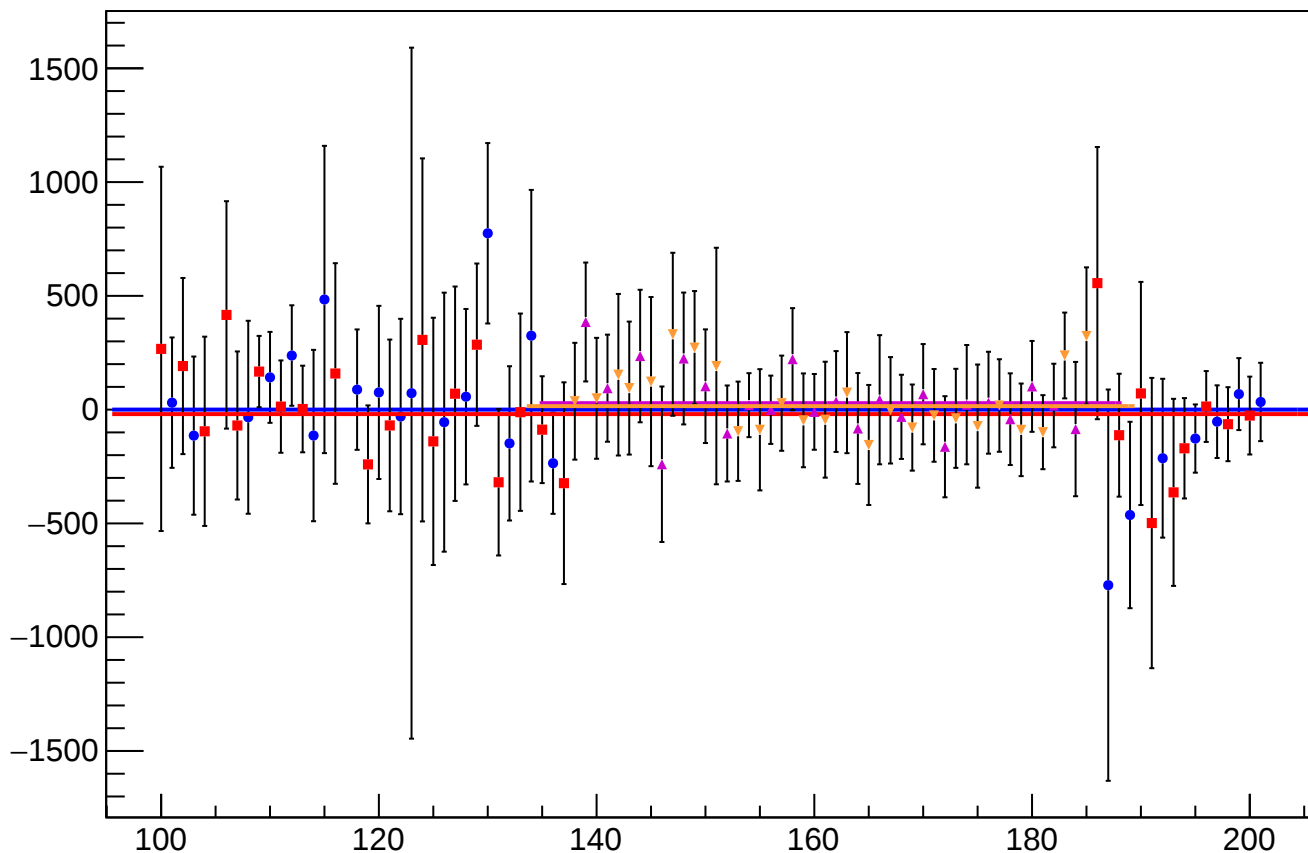
Right: 174.899 ± 0.027 χ^2/NDF : 4780792.3/51

In: 177.651 ± 0.025 χ^2/NDF : 3674914.7/46

Out: 187.438 ± 0.025 χ^2/NDF : 4726636.0/52

All: 182.471 ± 0.018 χ^2/NDF : 8479496.7/99

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 0.177 ± 55.182 χ^2/NDF : 11.5/23

Left Out: 15.437 ± 47.695 χ^2/NDF : 7.0/24

Right Out: -19.601 ± 52.369 χ^2/NDF : 8.9/27

Left In: 28.277 ± 44.743 χ^2/NDF : 6.4/22

Left: 22.267 ± 32.632 χ^2/NDF : 13.4/47

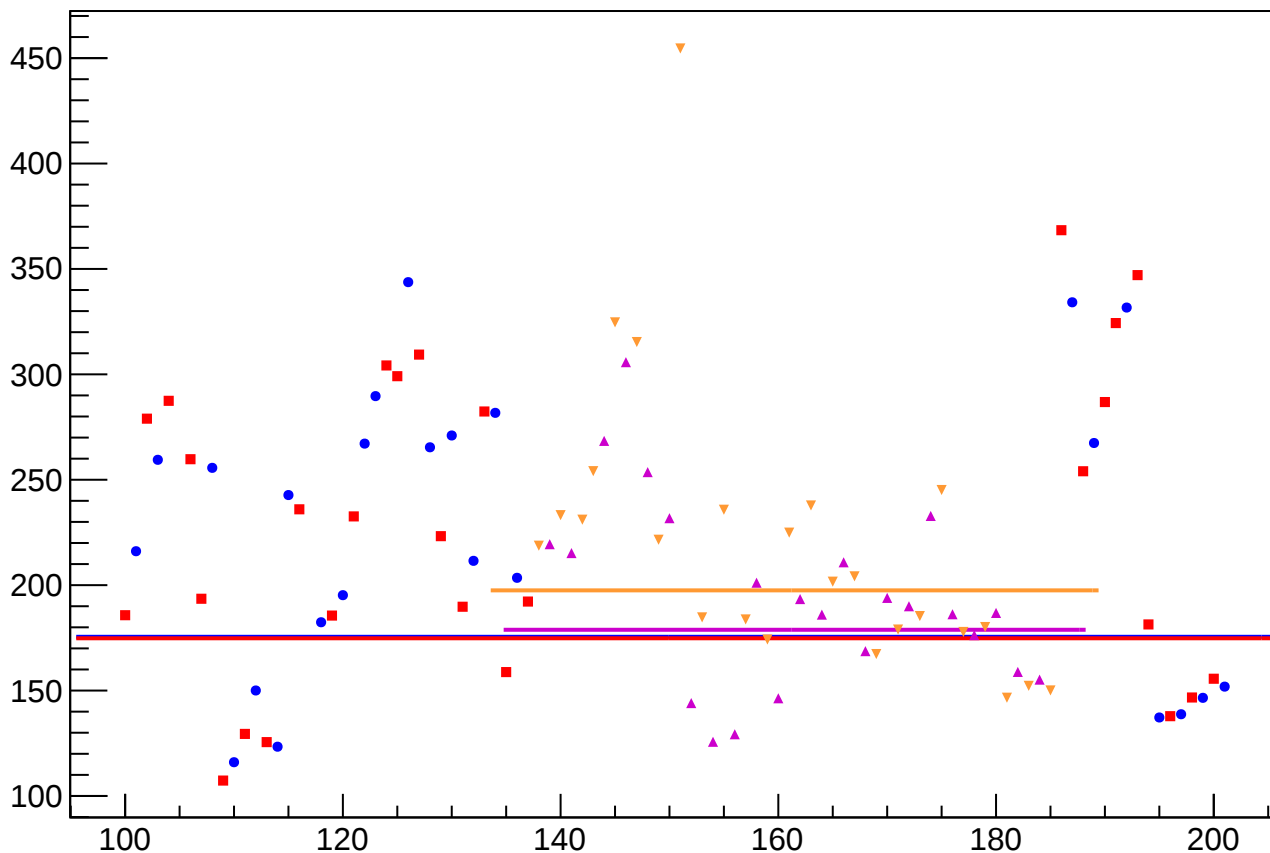
Right: -10.229 ± 37.986 χ^2/NDF : 20.5/51

In: 17.131 ± 34.754 χ^2/NDF : 18.0/46

Out: -0.449 ± 35.262 χ^2/NDF : 16.1/52

All: 8.469 ± 24.753 χ^2/NDF : 34.3/99

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 175.502 $\pm$ 0.039 χ^2 /NDF: 2018722.1/23

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF:1784225.5/24

Right Out: 174.799 $\pm$ 0.037 χ^2 /NDF: 2687383.1/27

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

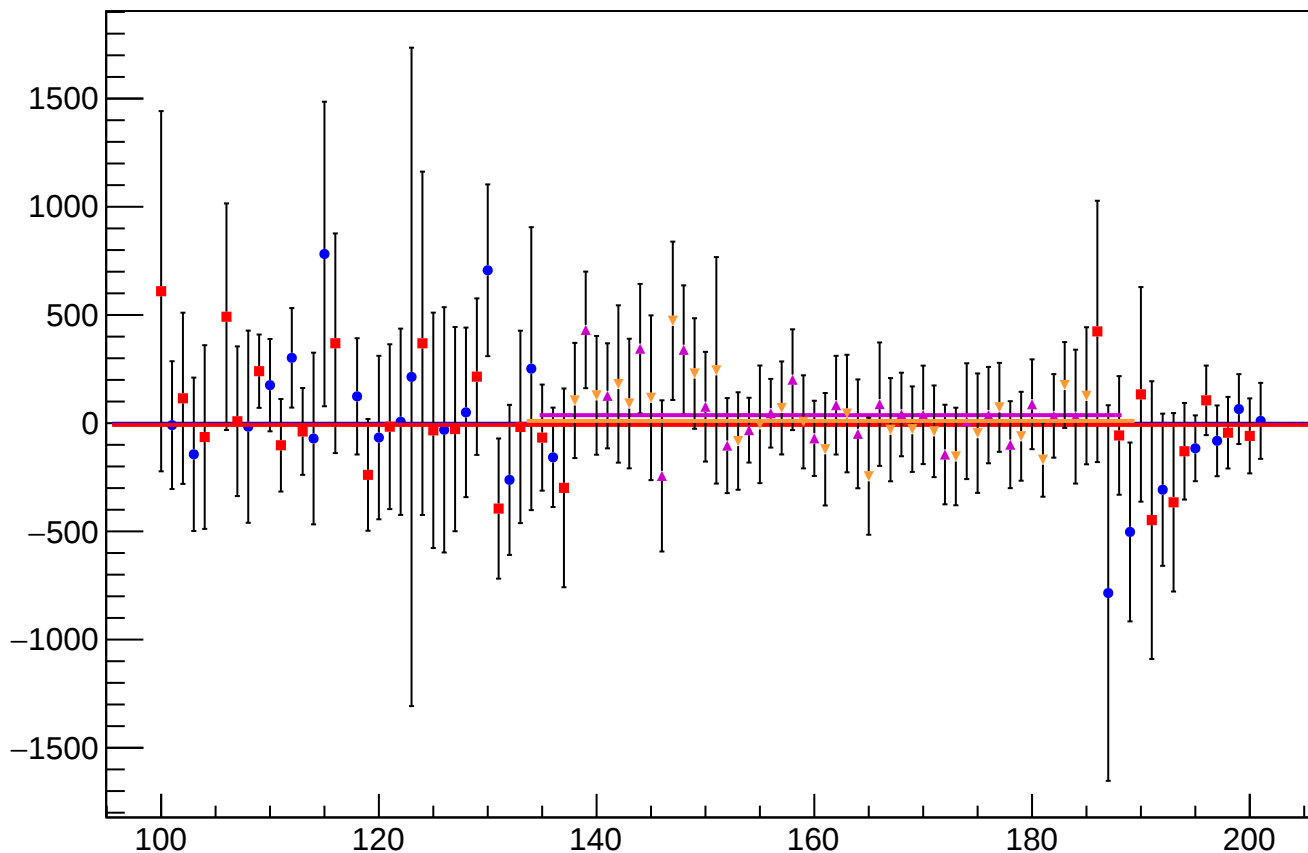
Right: 175.132 $\pm$ 0.027 χ^2 /NDF: 4706275.8/51

In: 177.513 $\pm$ 0.025 χ^2 /NDF:3645393.5/46

Out: 187.223 $\pm$ 0.025 χ^2 /NDF:4677523.5/52

All: 182.298 $\pm$ 0.018 χ^2 /NDF: 8399833.9/99

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -2.568 ± 56.539 $\chi^2/\text{NDF}: 12.5/23$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -7.833 ± 53.997 $\chi^2/\text{NDF}: 10.6/27$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

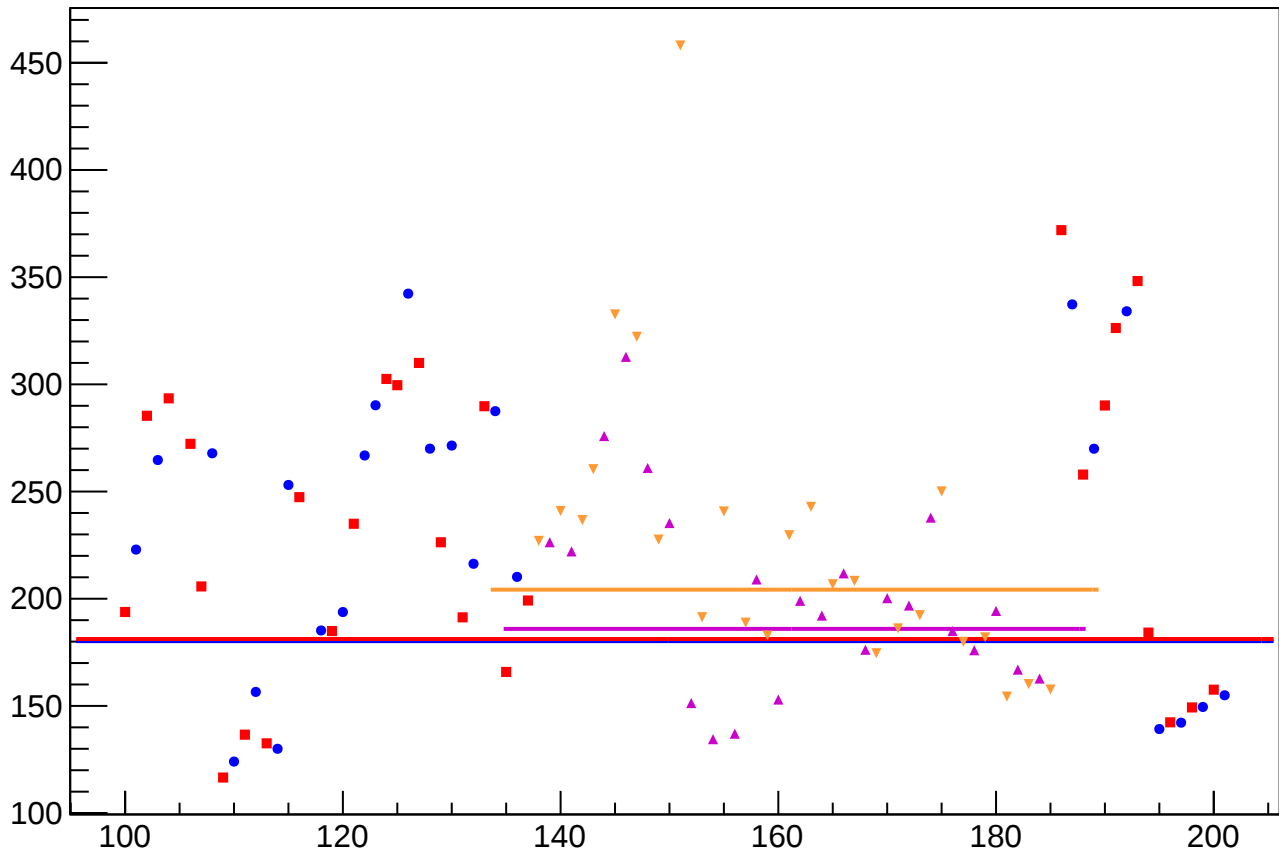
Right: -5.322 ± 39.050 $\chi^2/\text{NDF}: 23.1/51$

In: 21.093 ± 35.848 $\chi^2/\text{NDF}: 20.7/46$

Out: 2.203 ± 36.366 $\chi^2/\text{NDF}: 18.1/52$

All: 11.784 ± 25.530 $\chi^2/\text{NDF}: 38.9/99$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 180.230 $\pm$ 0.040 χ^2 /NDF: 1936080.5/23

Left Out: 204.236 $\pm$ 0.035 χ^2 /NDF:1675666.0/24

Right Out: 181.217 $\pm$ 0.038 χ^2 /NDF: 2485703.6/27

Left In: 185.931 $\pm$ 0.033 χ^2 /NDF:1460065.0/22

Left: 194.540 $\pm$ 0.024 χ^2 /NDF: 3282383.3/47

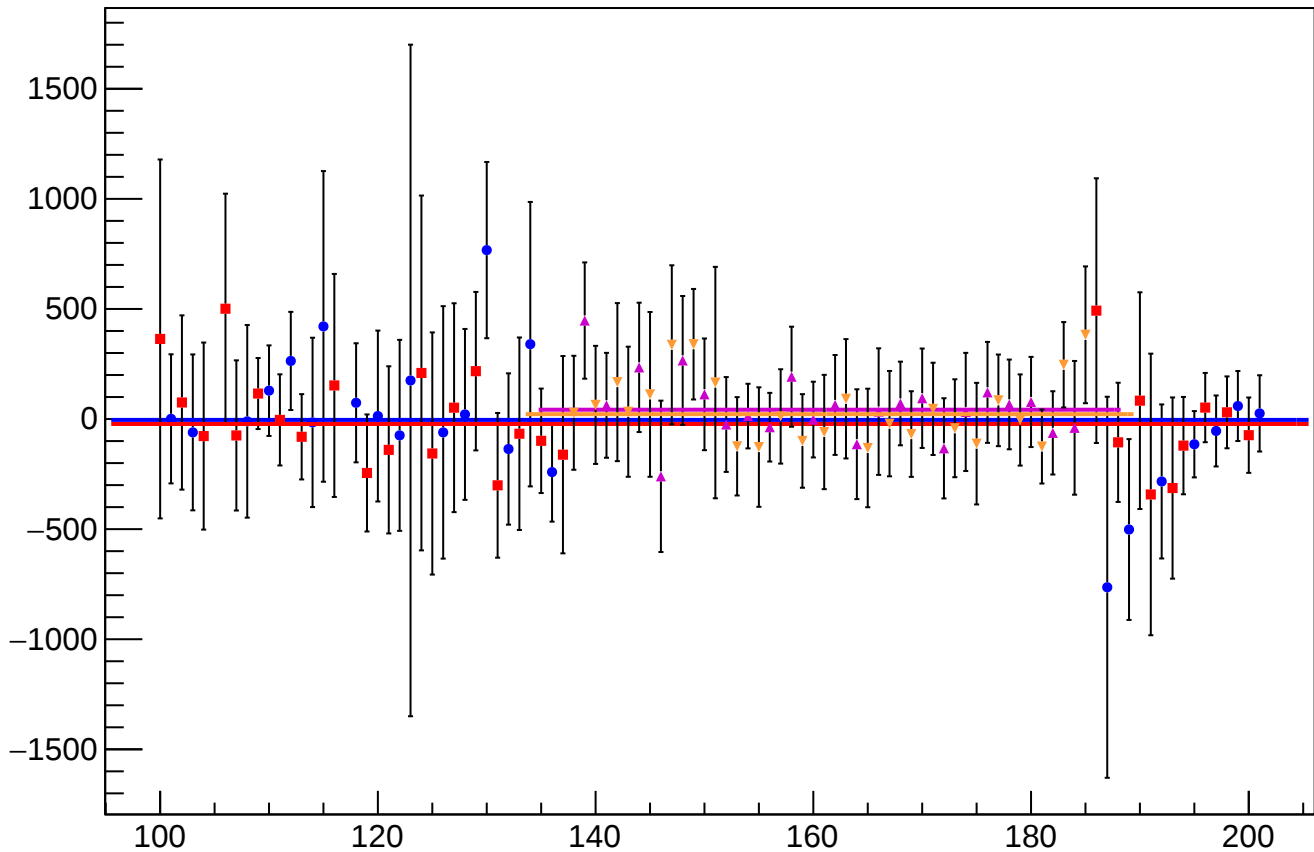
Right: 180.746 $\pm$ 0.028 χ^2 /NDF: 4422102.9/51

In: 183.639 $\pm$ 0.025 χ^2 /NDF:3408309.1/46

Out: 193.795 $\pm$ 0.026 χ^2 /NDF:4359978.5/52

All: 188.644 $\pm$ 0.018 χ^2 /NDF: 7847390.4/99

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -3.821 ± 55.820 $\chi^2/\text{NDF}: 11.3/23$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -22.445 ± 53.090 $\chi^2/\text{NDF}: 6.9/27$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

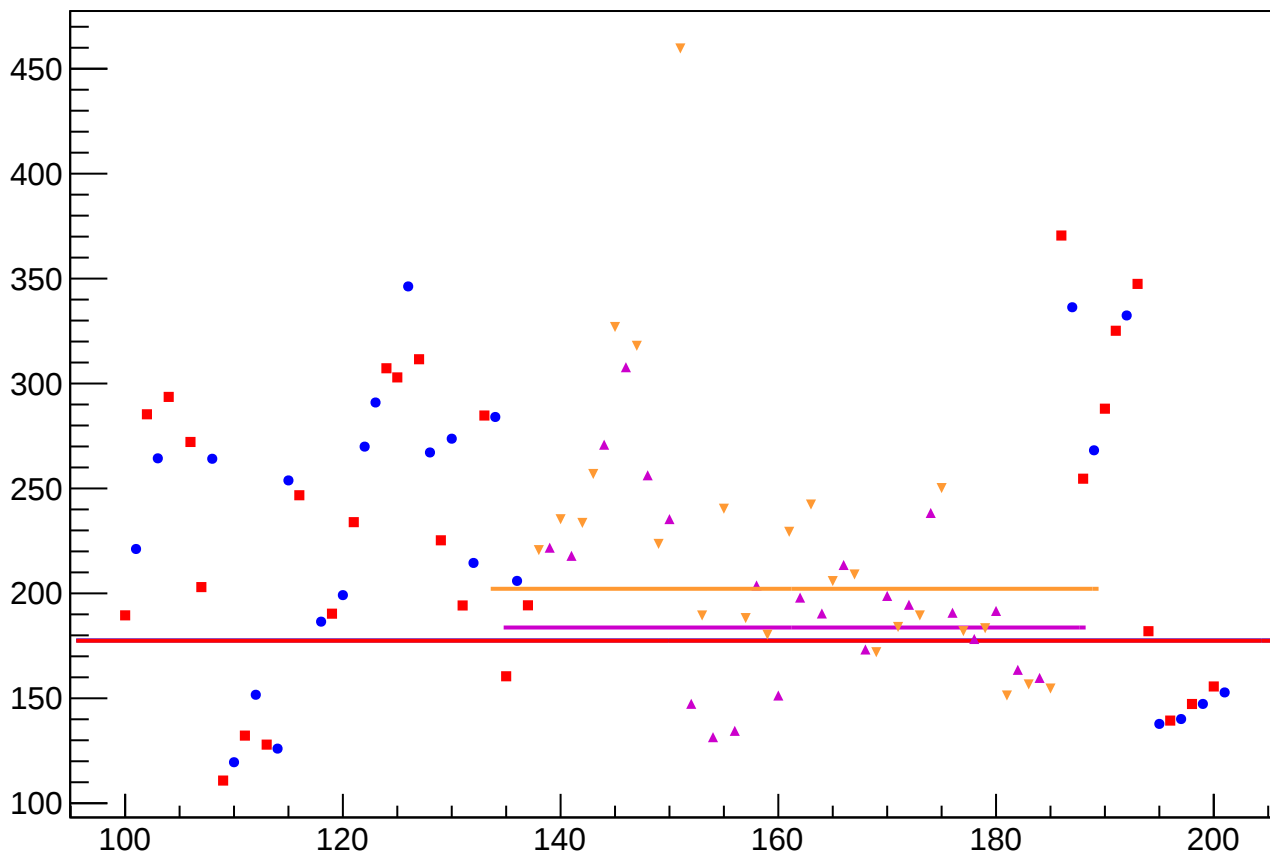
Right: -13.600 ± 38.469 $\chi^2/\text{NDF}: 18.3/51$

In: 23.801 ± 35.435 $\chi^2/\text{NDF}: 18.5/46$

Out: 1.776 ± 35.903 $\chi^2/\text{NDF}: 15.6/52$

All: 12.933 ± 25.220 $\chi^2/\text{NDF}: 34.3/99$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 177.574 $\pm$ 0.039 χ^2 /NDF: 2020308.1/23

Left Out: 202.186 $\pm$ 0.034 χ^2 /NDF:1696571.9/24

Right Out: 177.431 $\pm$ 0.038 χ^2 /NDF: 2656288.5/27

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

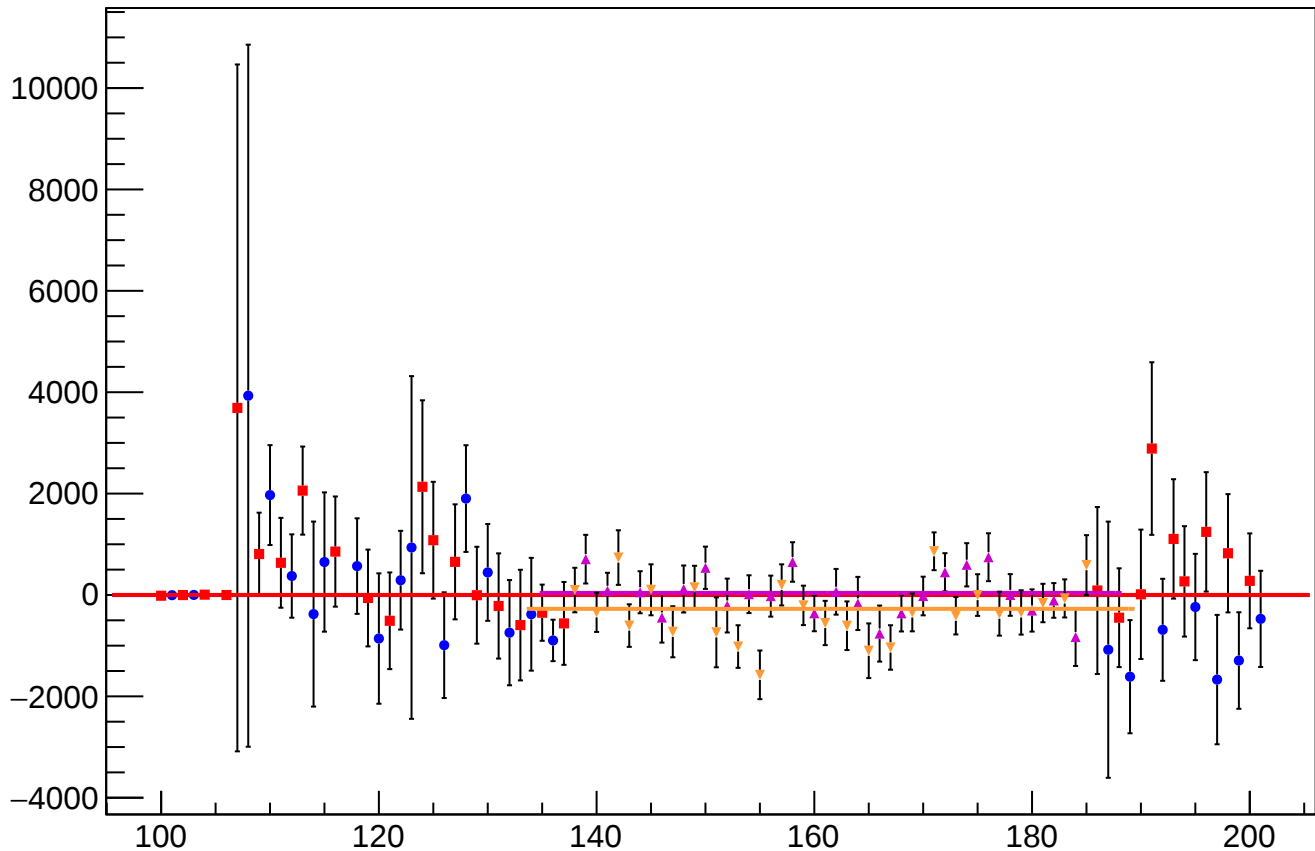
Right: 177.499 $\pm$ 0.027 χ^2 /NDF: 4676603.4/51

In: 181.251 $\pm$ 0.025 χ^2 /NDF:3530771.1/46

Out: 190.864 $\pm$ 0.025 χ^2 /NDF:4588837.1/52

All: 185.994 $\pm$ 0.018 χ^2 /NDF: 8192251.1/99

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.556 ± 2.251 χ^2/NDF : 23.5/23

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.746 ± 2.111 χ^2/NDF : 24.0/27

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

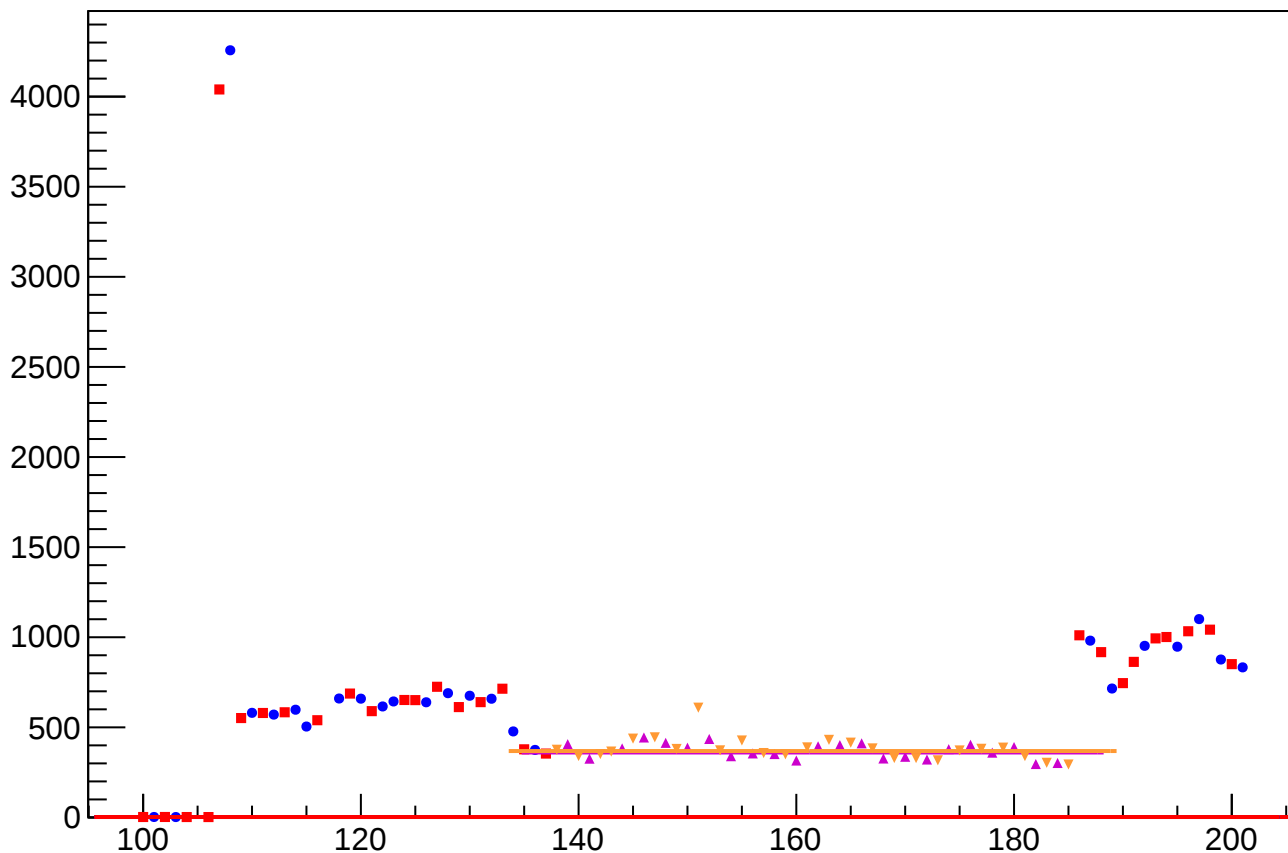
Right: -0.331 ± 1.540 χ^2/NDF : 48.0/51

In: -1.528 ± 2.251 χ^2/NDF : 43.9/46

Out: 0.584 ± 2.110 χ^2/NDF : 72.2/52

All: -0.404 ± 1.540 χ^2/NDF : 116.6/99

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.482 $\pm$ 0.002 χ^2 /NDF: 19889112.0/23

Left Out: 368.500 $\pm$ 0.061 χ^2 /NDF: 623011.6/24

Right Out: 2.464 $\pm$ 0.001 χ^2 /NDF: 22657862.2/27

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

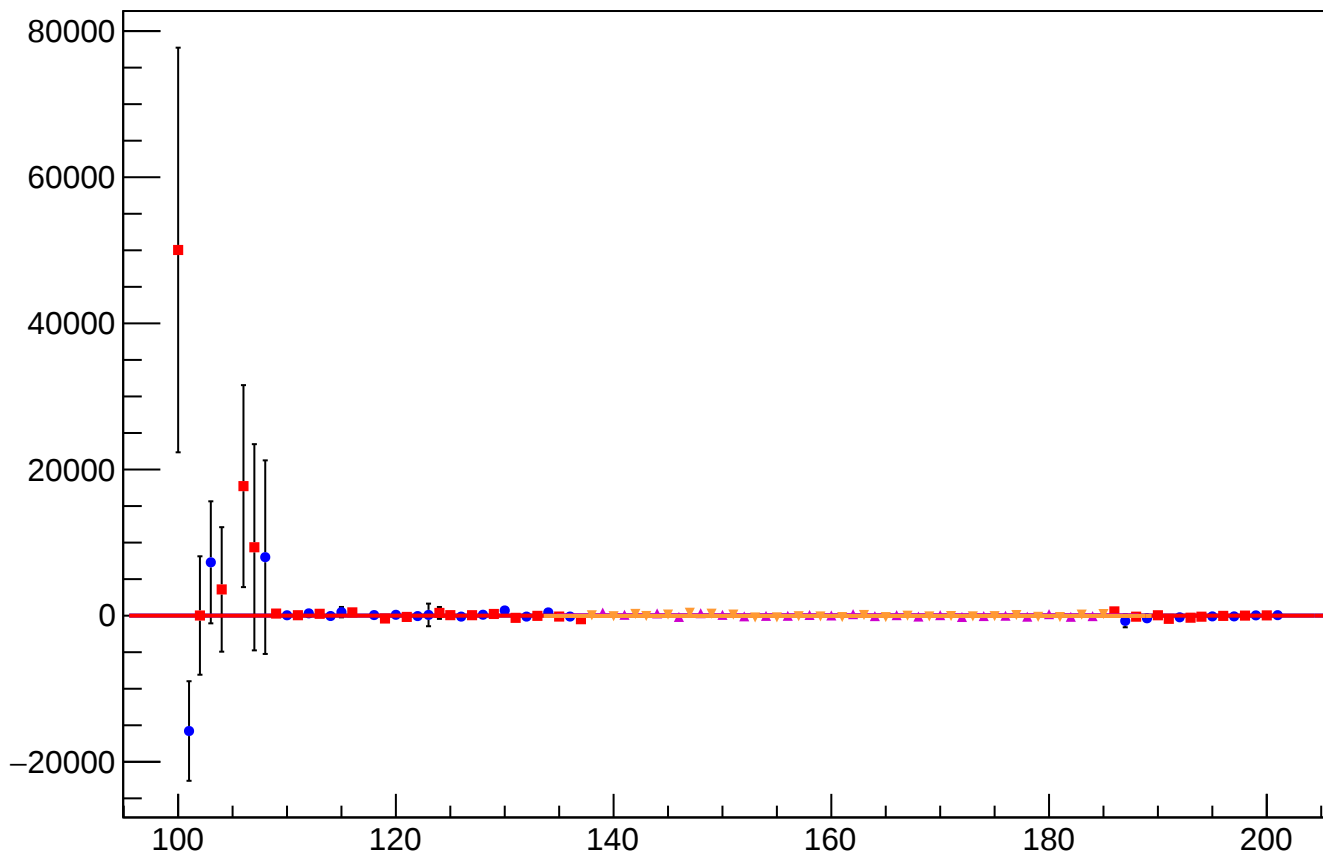
Right: 2.472 $\pm$ 0.001 χ^2 /NDF: 42547041.3/51

In: 2.719 $\pm$ 0.002 χ^2 /NDF: 53808290.7/46

Out: 2.680 $\pm$ 0.001 χ^2 /NDF: 58769512.3/52

All: 2.698 $\pm$ 0.001 χ^2 /NDF: 112578121.1/99

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 13.819+/-61.659 χ^2/NDF : 15.8/23

Left Out: -39.036+/-49.576 χ^2/NDF : 9.1/24

Right Out: 3.139+/-59.849 χ^2/NDF : 16.8/27

Left In: 28.062+/-48.032 χ^2/NDF : 9.6/22

Left: -4.426+/-34.497 χ^2/NDF : 19.7/47

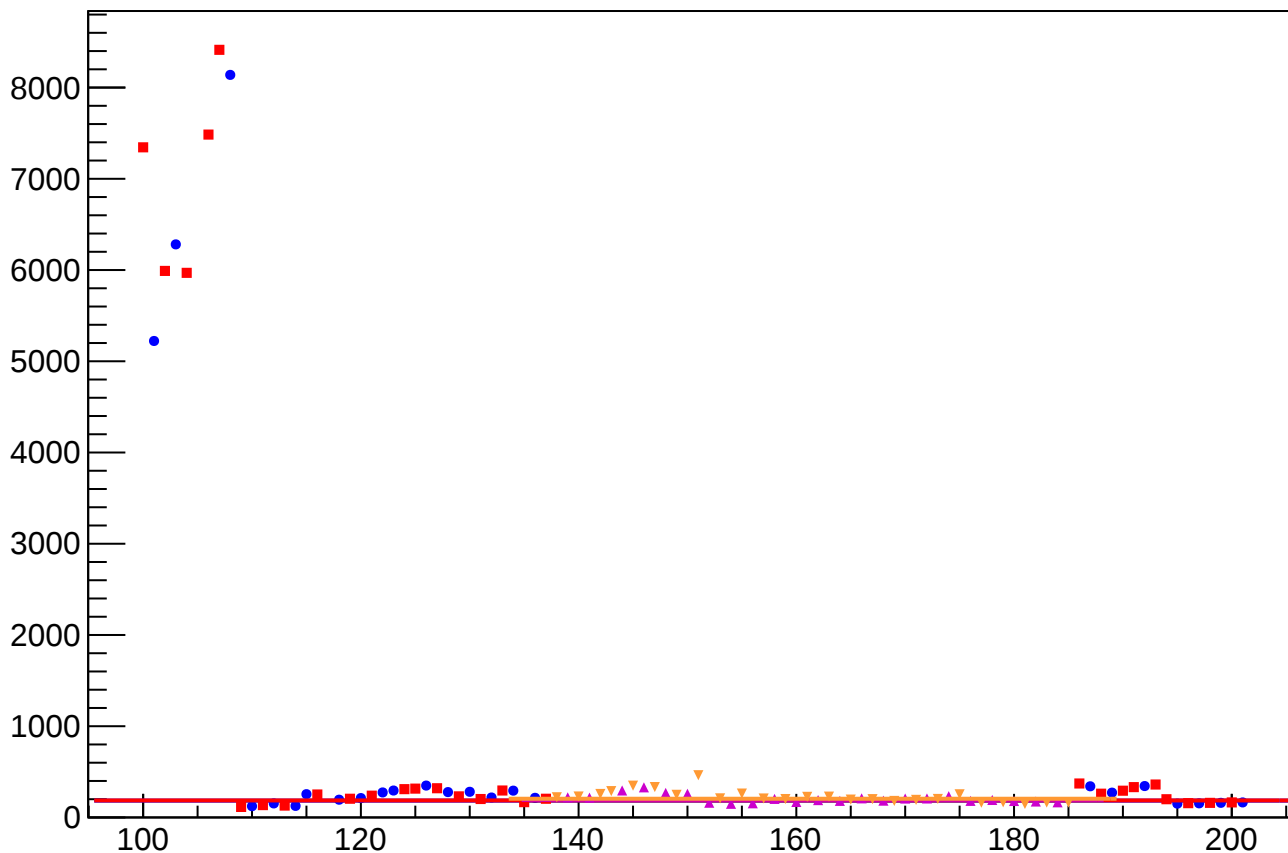
Right: 8.320+/-42.945 χ^2/NDF : 32.6/51

In: 22.683+/-37.892 χ^2/NDF : 25.4/46

Out: -21.873+/-38.179 χ^2/NDF : 26.2/52

All: 0.573+/-26.894 χ^2/NDF : 52.3/99

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 184.306+/-0.044 χ^2/NDF : 4479994.8/23

Left Out: 205.114+/-0.035 χ^2/NDF :1957484.4/24

Right Out: 186.568+/-0.042 χ^2/NDF : 5321402.2/27

Left In: 193.616+/-0.034 χ^2/NDF :1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

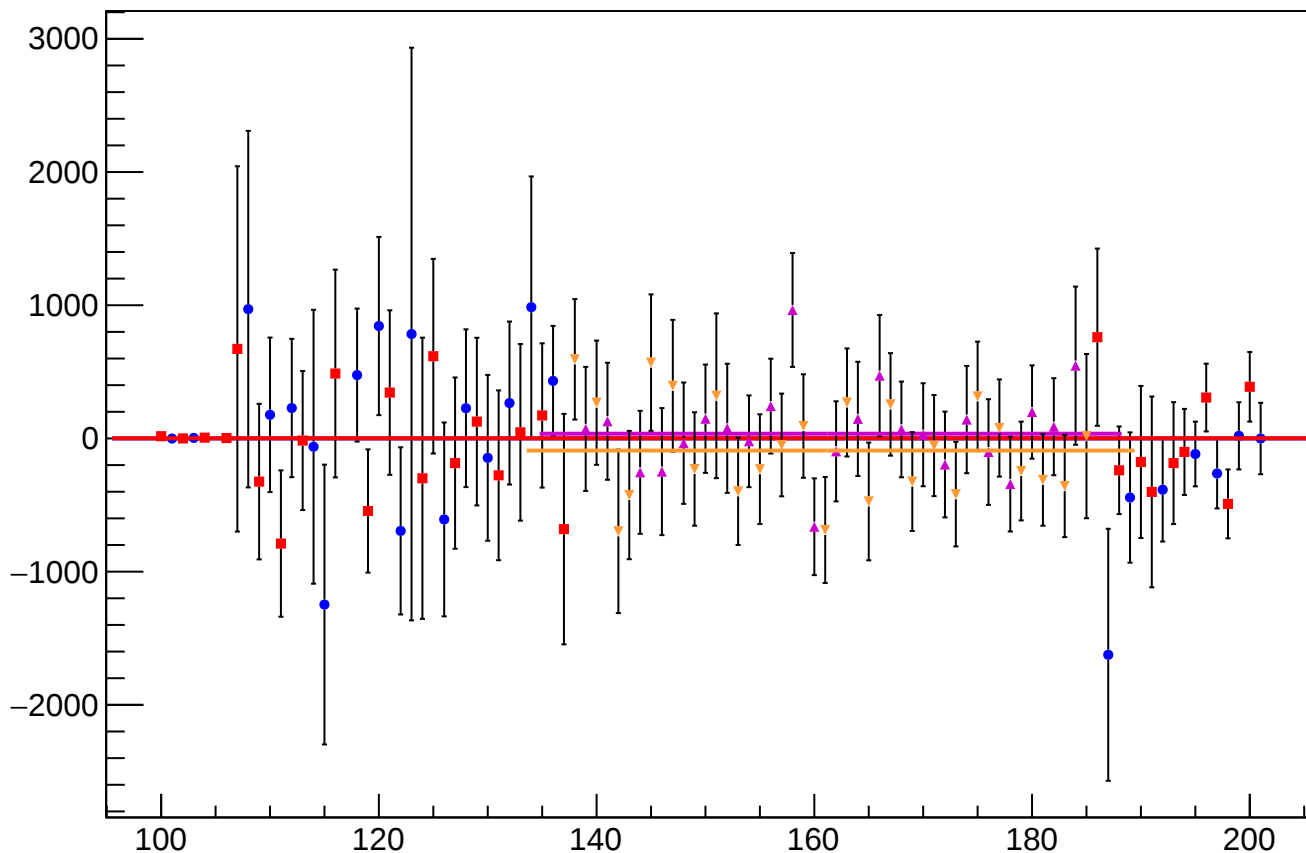
Right: 185.471+/-0.030 χ^2/NDF : 9802783.7/51

In: 190.100+/-0.027 χ^2/NDF :5687845.1/46

Out: 197.567+/-0.027 χ^2/NDF :7392777.4/52

All: 193.805+/-0.019 χ^2/NDF : 13119161.9/99

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.176 ± 1.736 χ^2/NDF : 16.1/23

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.321 ± 1.622 χ^2/NDF : 19.0/27

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

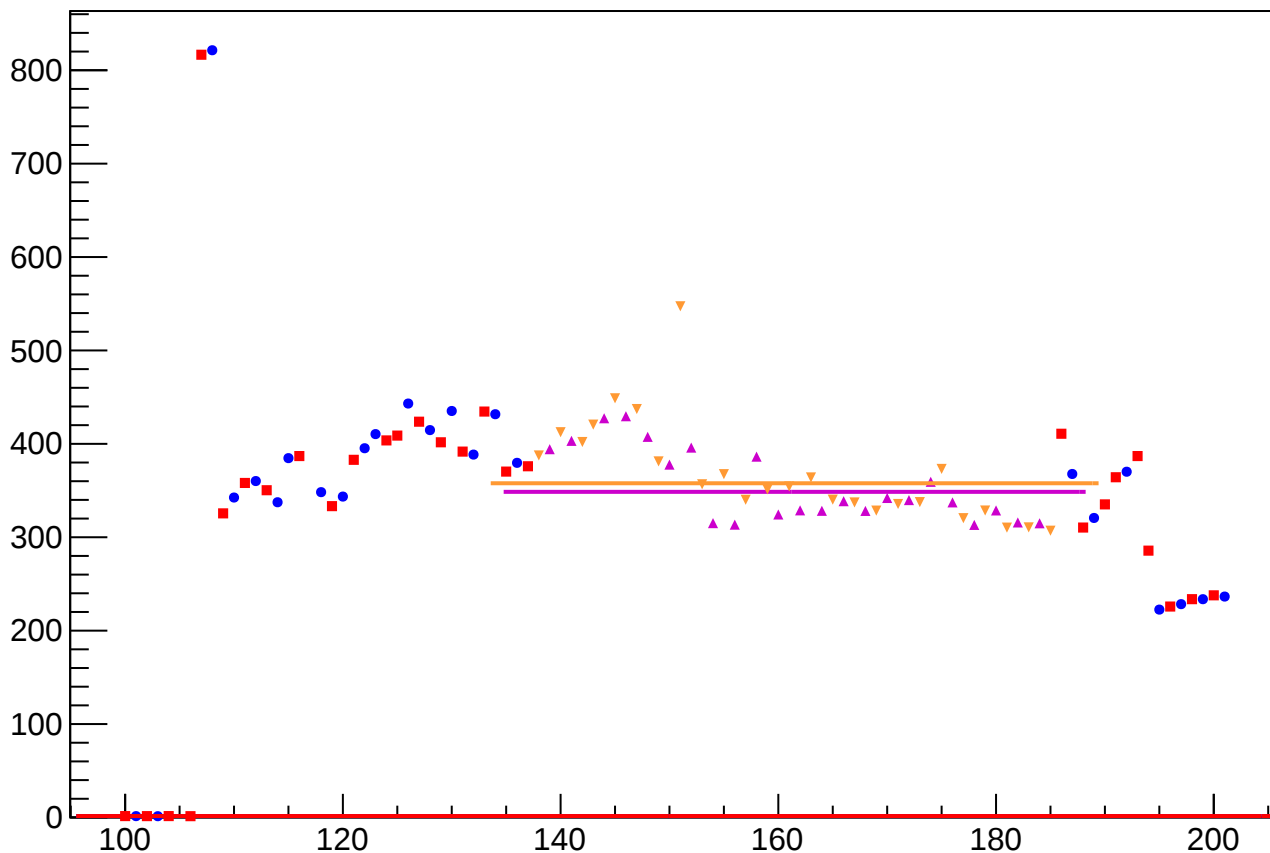
Right: 0.623 ± 1.185 χ^2/NDF : 35.5/51

In: -0.161 ± 1.736 χ^2/NDF : 29.7/46

Out: 1.287 ± 1.622 χ^2/NDF : 36.7/52

All: 0.612 ± 1.185 χ^2/NDF : 66.8/99

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.507 $\pm$ 0.001 χ^2 /NDF: 20105066.4/23

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF: 547036.5/24

Right Out: 1.505 $\pm$ 0.001 χ^2 /NDF: 22317581.1/27

Left In: 348.611 $\pm$ 0.060 χ^2 /NDF: 362511.2/22

Left: 353.224 $\pm$ 0.042 χ^2 /NDF: 921460.0/47

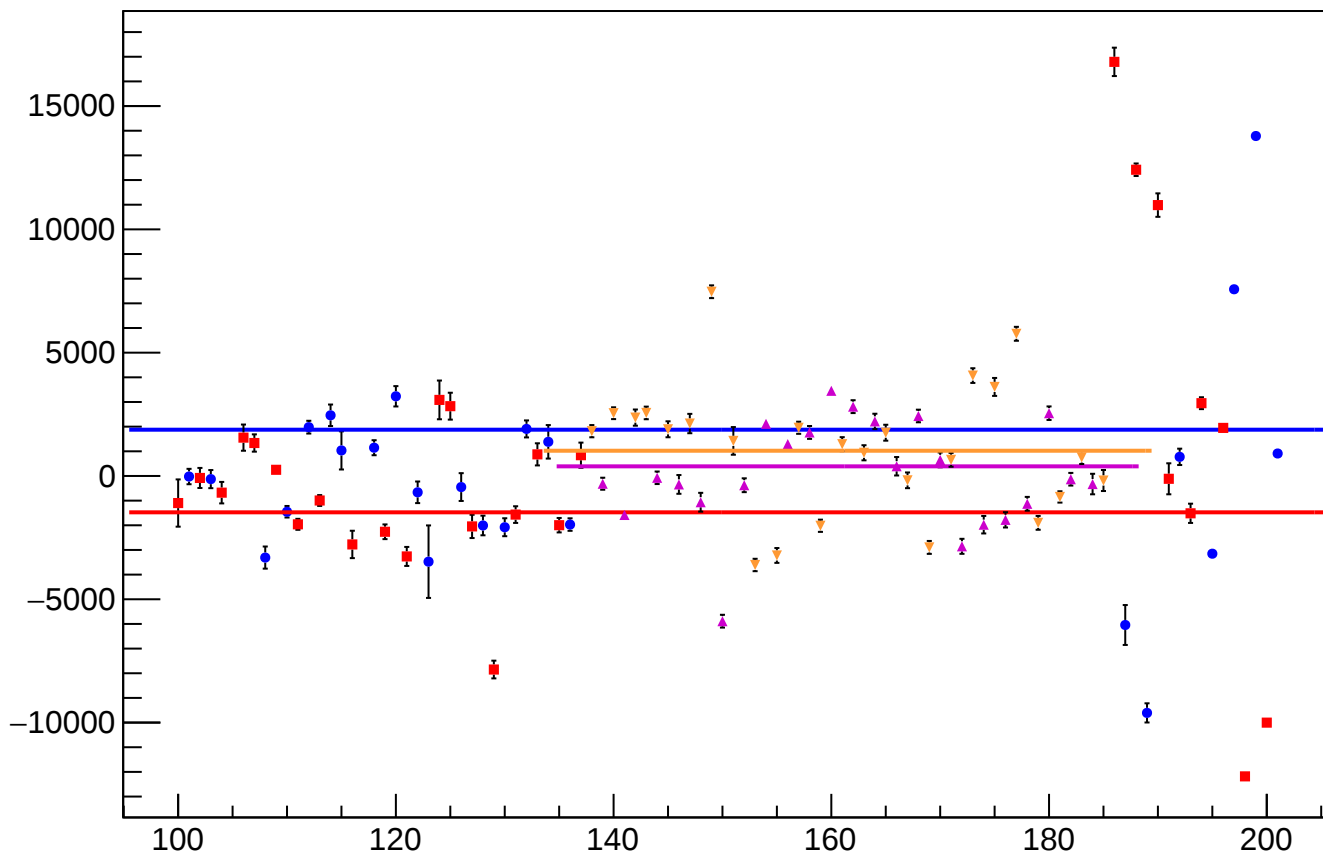
Right: 1.506 $\pm$ 0.001 χ^2 /NDF: 42422648.8/51

In: 1.654 $\pm$ 0.001 χ^2 /NDF: 54294532.5/46

Out: 1.637 $\pm$ 0.001 χ^2 /NDF: 58767383.7/52

All: 1.645 $\pm$ 0.001 χ^2 /NDF: 113062009.4/99

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 1876.296 $\pm$ 61.370 χ^2 /NDF: 8121.8/23

Left Out: 1023.439 $\pm$ 57.338 χ^2 /NDF:2309.4/24

Right Out: -1474.342 $\pm$ 57.714 χ^2 /NDF: 11628.2/27

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

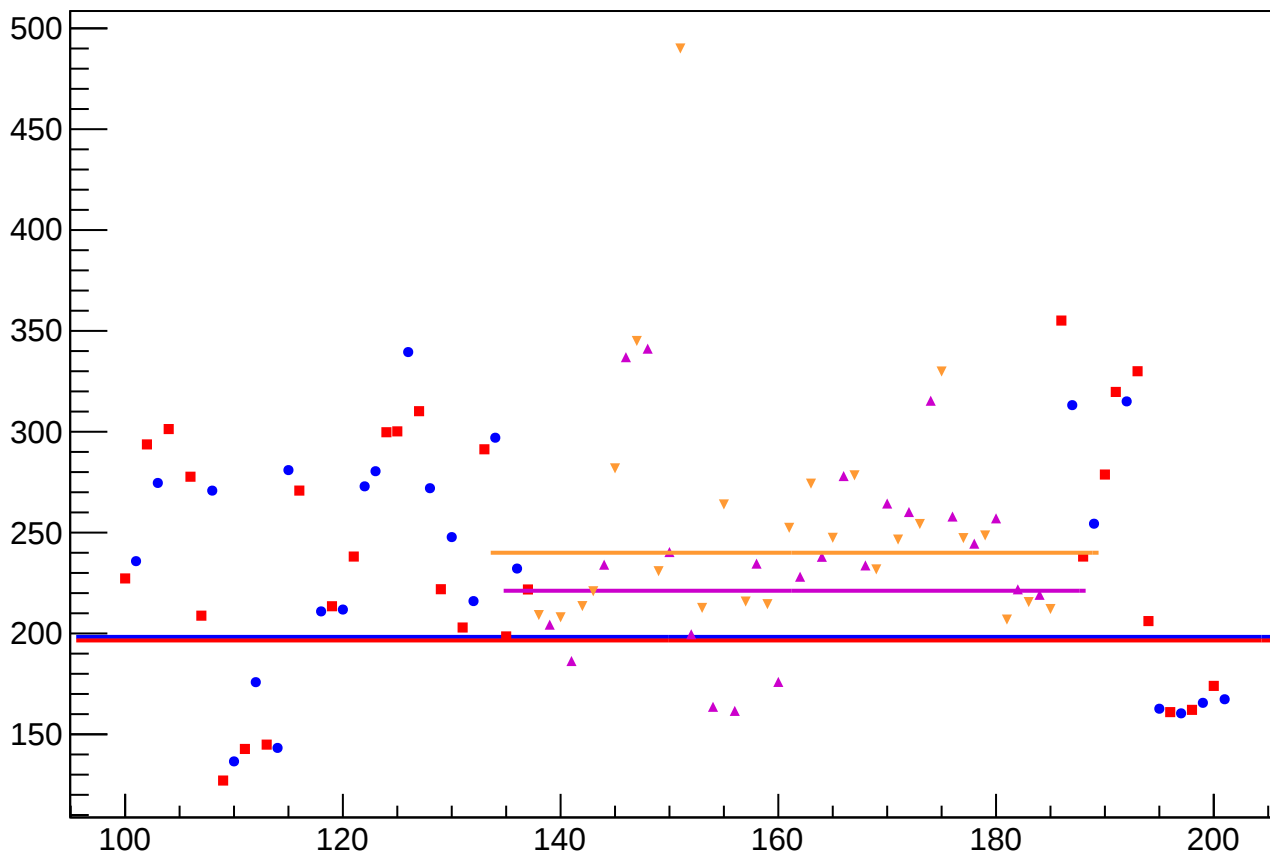
Right: 98.198 $\pm$ 42.043 χ^2 /NDF: 21331.9/51

In: 1051.246 $\pm$ 40.930 χ^2 /NDF:10032.3/46

Out: -217.297 $\pm$ 40.676 χ^2 /NDF:14880.2/52

All: 413.031 $\pm$ 28.852 χ^2 /NDF: 25395.7/99

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 198.296 $\pm$ 0.043 χ^2 /NDF: 1375054.1/23

Left Out: 240.019 $\pm$ 0.041 χ^2 /NDF:1002427.9/24

Right Out: 196.533 $\pm$ 0.041 χ^2 /NDF: 1945583.1/27

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

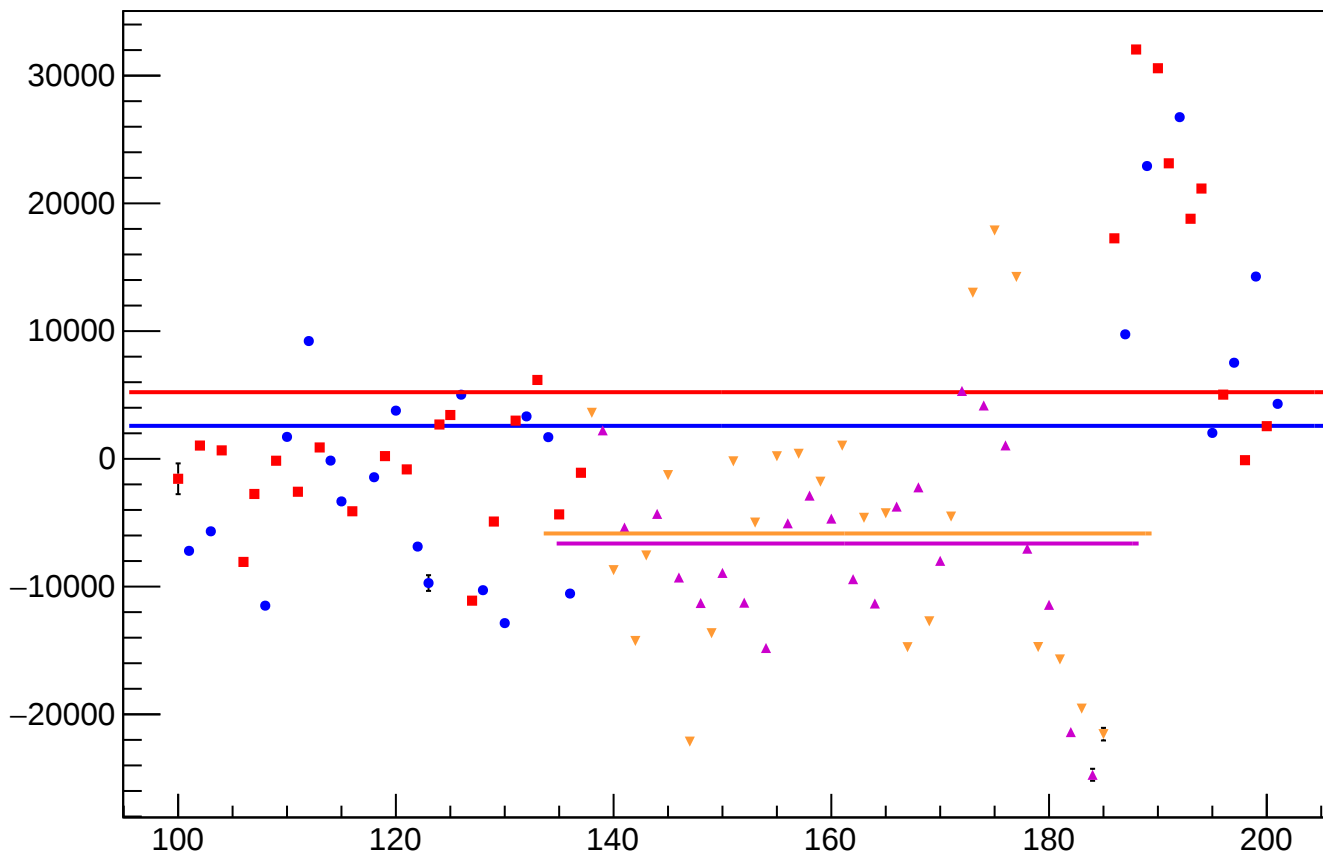
Right: 197.361 $\pm$ 0.030 χ^2 /NDF: 3321513.4/51

In: 210.997 $\pm$ 0.029 χ^2 /NDF:2871861.9/46

Out: 218.418 $\pm$ 0.029 χ^2 /NDF:3519448.1/52

All: 214.731 $\pm$ 0.020 χ^2 /NDF: 6424387.1/99

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 2583.208 $\pm$ 39.113

χ^2/NDF : 77248.4/23

Left: -6220.862 $\pm$ 25.800

χ^2/NDF : 85367.5/47

Left Out: -5841.615 $\pm$ 35.848

χ^2/NDF : 63397.3/24

Right: 3998.031 $\pm$ 26.621

χ^2/NDF : 180974.3/51

Right Out: 5218.959 $\pm$ 36.335

χ^2/NDF : 101288.4/27

In: -2258.339 $\pm$ 26.940

χ^2/NDF : 128138.3/46

Out: -385.941 $\pm$ 25.519

χ^2/NDF : 211643.1/52

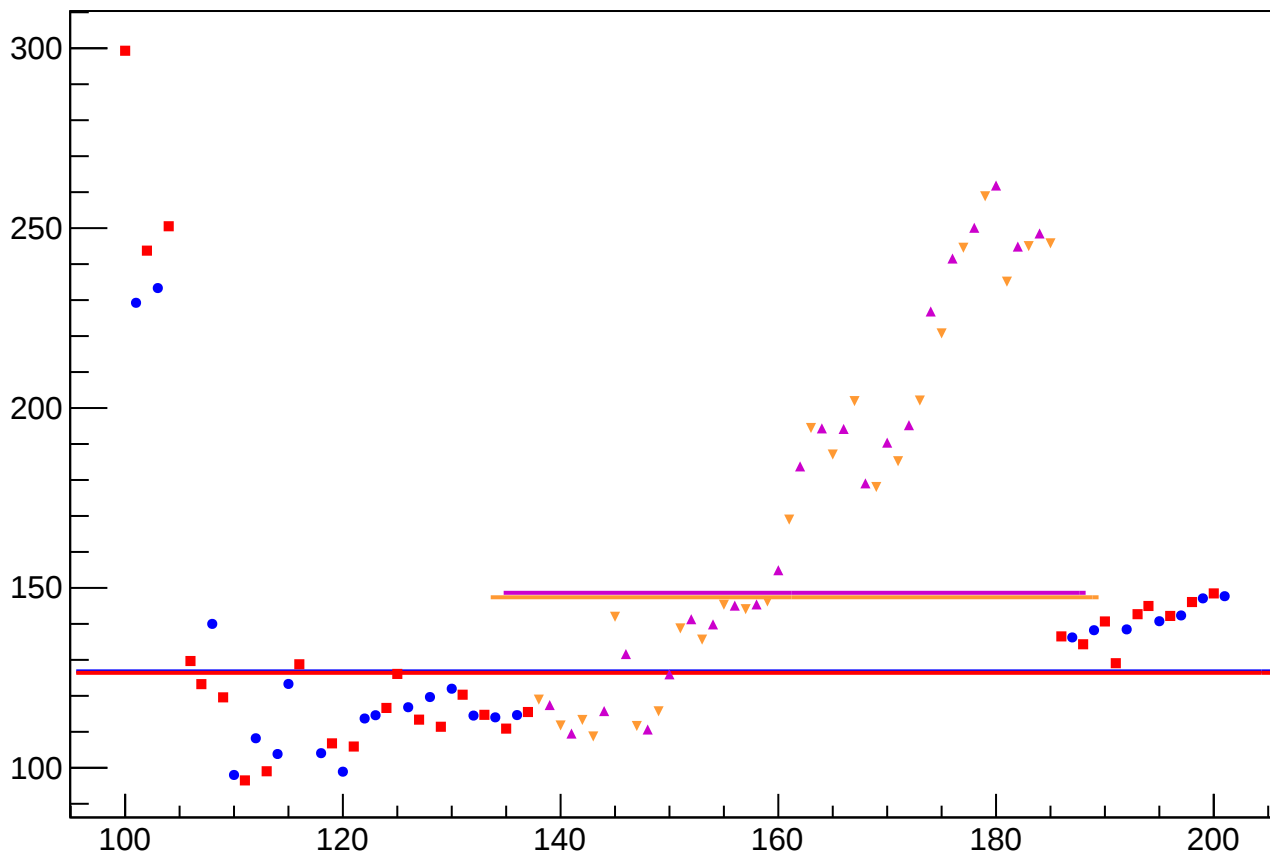
Left In: -6628.388 $\pm$ 37.160

χ^2/NDF : 21738.0/22

All: -1271.432 $\pm$ 18.527

χ^2/NDF : 342327.5/9

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 126.803+/-0.028 χ^2/NDF : 816529.2/23

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 126.403+/-0.026 χ^2/NDF : 922805.7/27

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

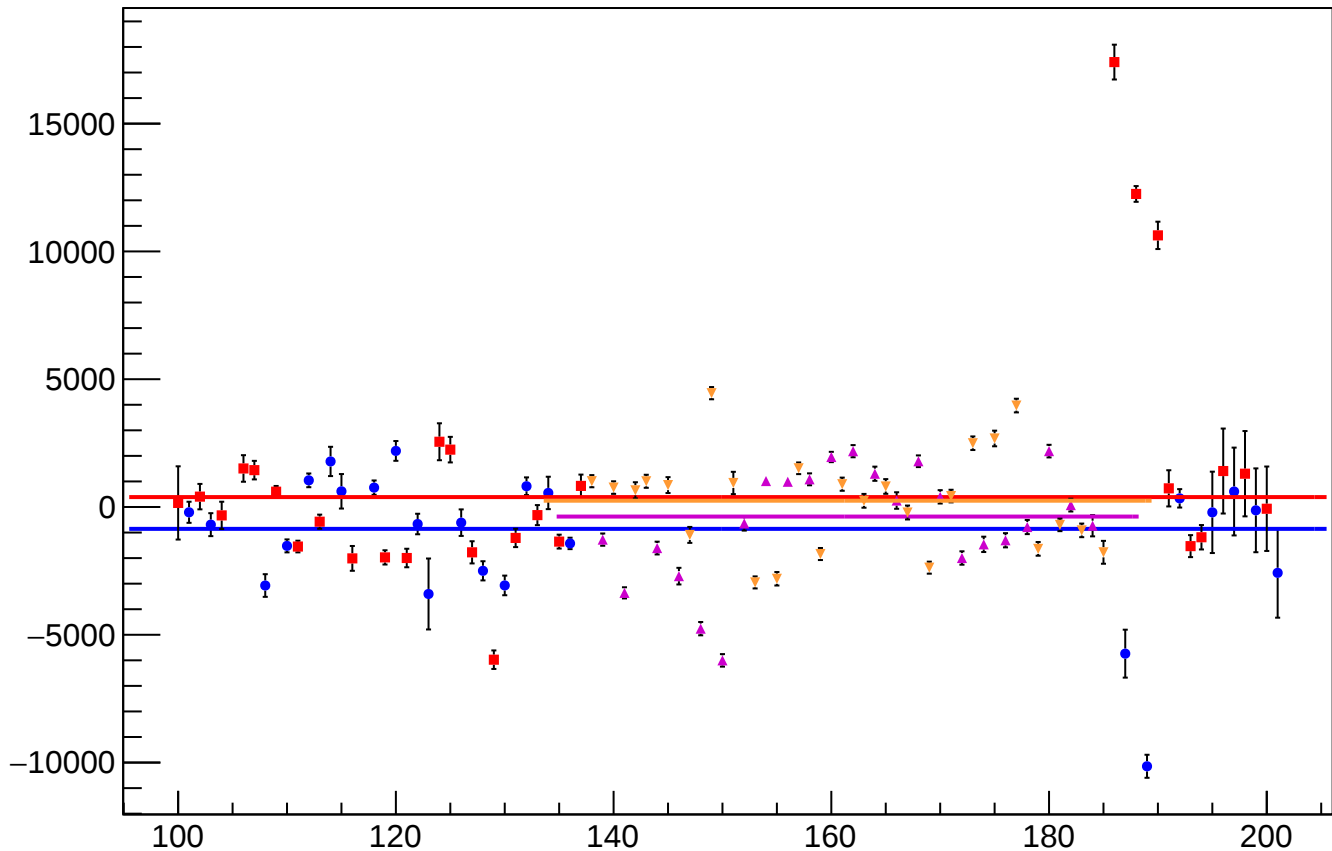
Right: 126.588+/-0.019 χ^2/NDF : 1739447.1/51

In: 138.281+/-0.019 χ^2/NDF : 3559791.2/46

Out: 137.041+/-0.018 χ^2/NDF : 3778242.4/52

All: 137.628+/-0.013 χ^2/NDF : 7340267.7/99

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -855.807 $\pm$ 84.424 χ^2/NDF : 761.4/23

Left Out: 246.120 $\pm$ 53.492 χ^2/NDF :1354.8/24

Right Out: 387.523 $\pm$ 75.208 χ^2/NDF : 3160.8/27

Left In: -374.465 $\pm$ 51.892 χ^2/NDF :1798.3/22

Left: -73.589 $\pm$ 37.246 χ^2/NDF : 3222.4/47

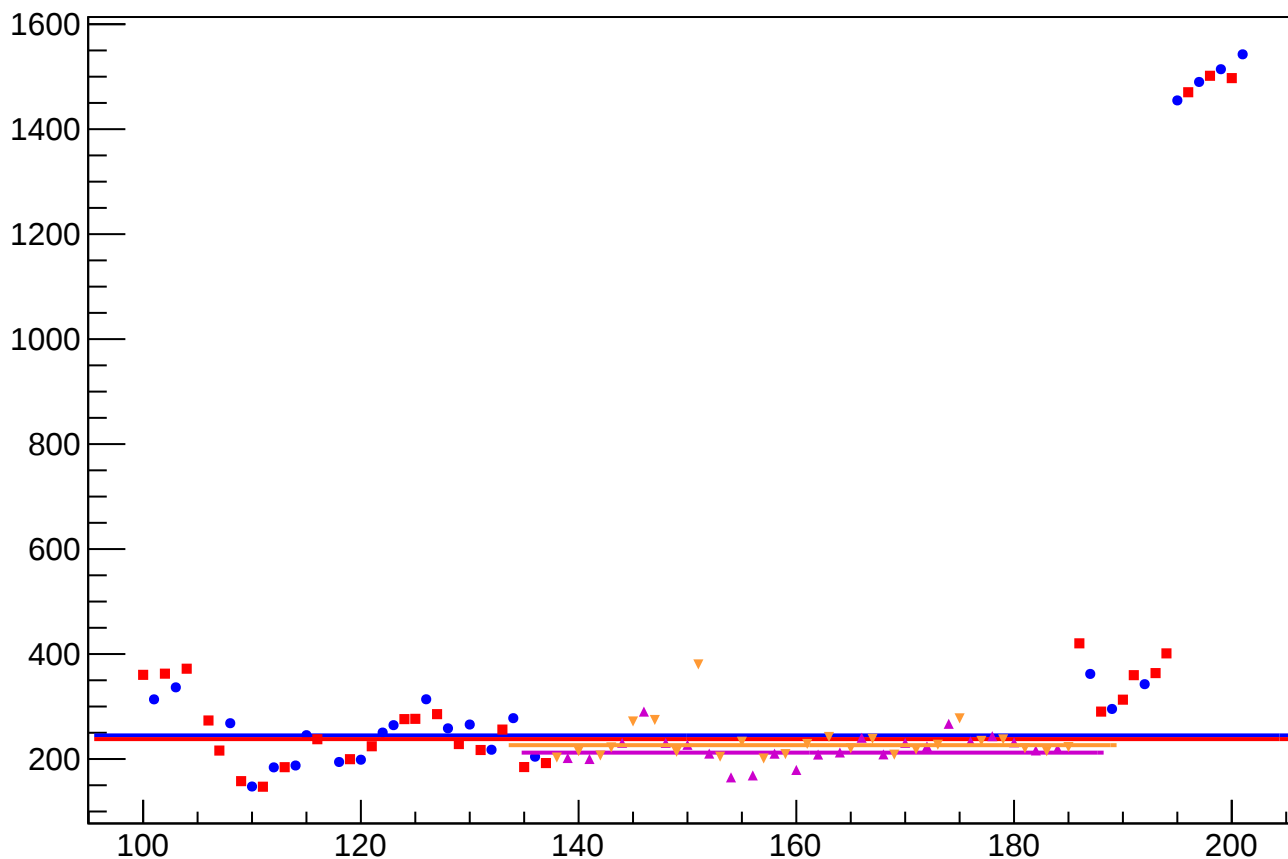
Right: -162.600 $\pm$ 56.157 χ^2/NDF : 4043.2/51

In: -506.454 $\pm$ 44.209 χ^2/NDF :2583.3/46

Out: 293.622 $\pm$ 43.590 χ^2/NDF :4518.0/52

All: -100.782 $\pm$ 31.039 χ^2/NDF : 7267.4/99

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 244.965+/-0.060 χ^2/NDF : 5482817.8/23

Left Out: 226.376+/-0.038 χ^2/NDF : 521770.1/24

Right Out: 237.908+/-0.053 χ^2/NDF : 5231567.0/27

Left In: 212.145+/-0.037 χ^2/NDF : 591698.6/22

Left: 219.044+/-0.026 χ^2/NDF : 1186390.8/47

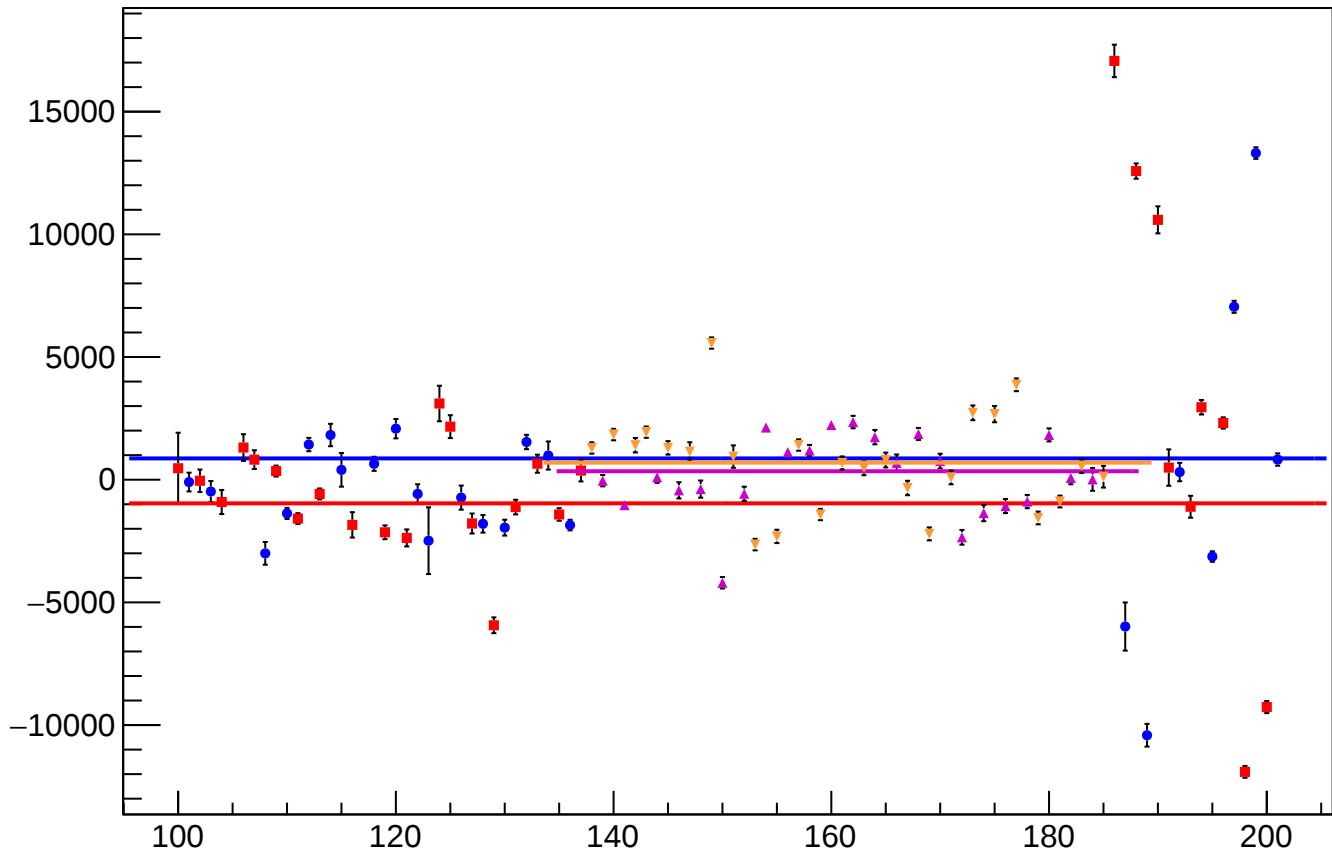
Right: 241.031+/-0.040 χ^2/NDF : 10722175.6/51

In: 221.145+/-0.031 χ^2/NDF : 6293891.3/46

Out: 230.250+/-0.031 χ^2/NDF : 5784566.9/52

All: 225.761+/-0.022 χ^2/NDF : 12121475.0/99

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 867.582 ± 66.592 $\chi^2/\text{NDF}: 4952.7/23$

Left Out: 694.326 ± 54.246 $\chi^2/\text{NDF}: 1422.1/24$

Right Out: -963.655 ± 62.958 $\chi^2/\text{NDF}: 7111.4/27$

Left In: 344.578 ± 52.954 $\chi^2/\text{NDF}: 985.0/22$

Left: 515.236 ± 37.893 $\chi^2/\text{NDF}: 2428.4/47$

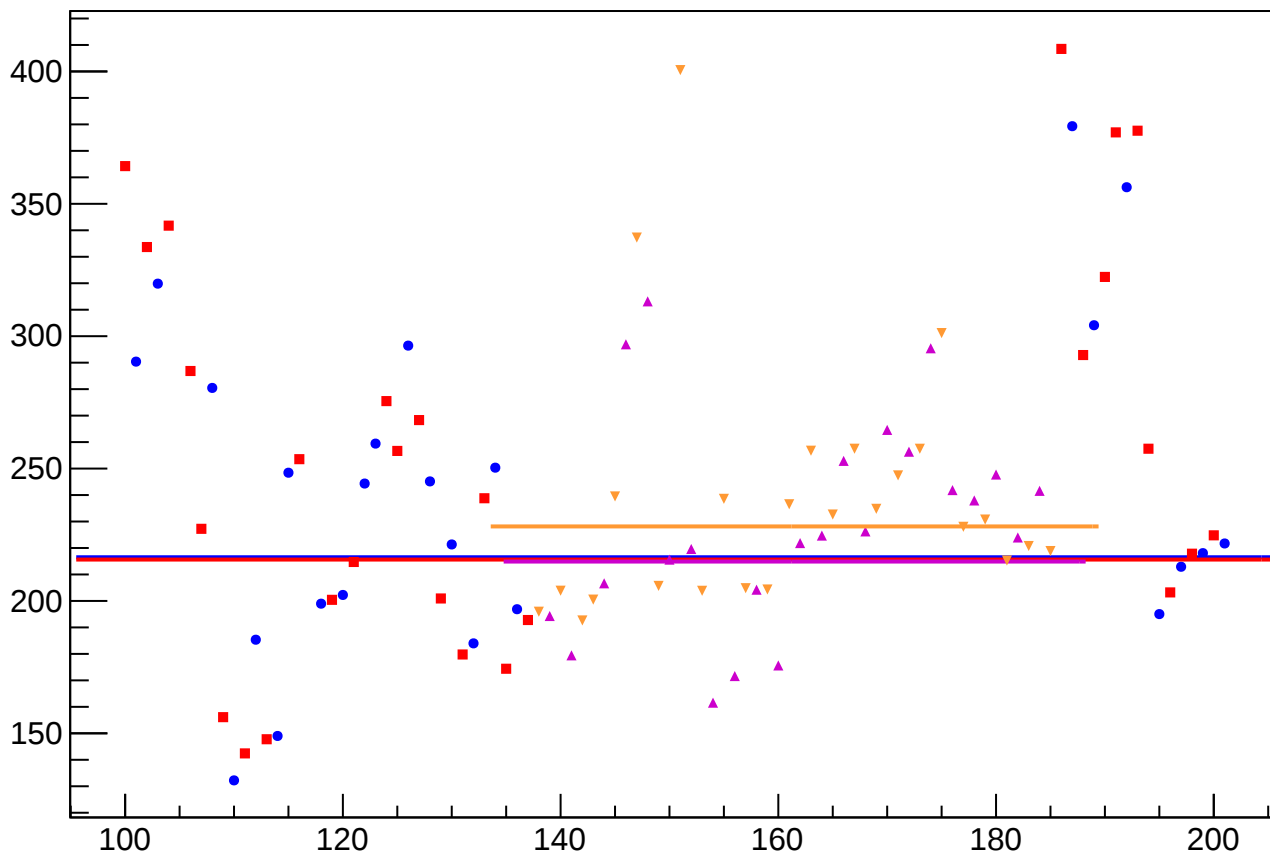
Right: -99.372 ± 45.749 $\chi^2/\text{NDF}: 12463.4/51$

In: 547.181 ± 41.447 $\chi^2/\text{NDF}: 5975.5/46$

Out: -12.113 ± 41.096 $\chi^2/\text{NDF}: 8931.5/52$

All: 265.153 ± 29.182 $\chi^2/\text{NDF}: 14998.8/99$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.499 $\pm$ 0.047 χ^2 /NDF: 1143808.7/23

Left Out: 228.144 $\pm$ 0.038 χ^2 /NDF:828399.3/24

Right Out: 215.630 $\pm$ 0.045 χ^2 /NDF: 1816518.0/27

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

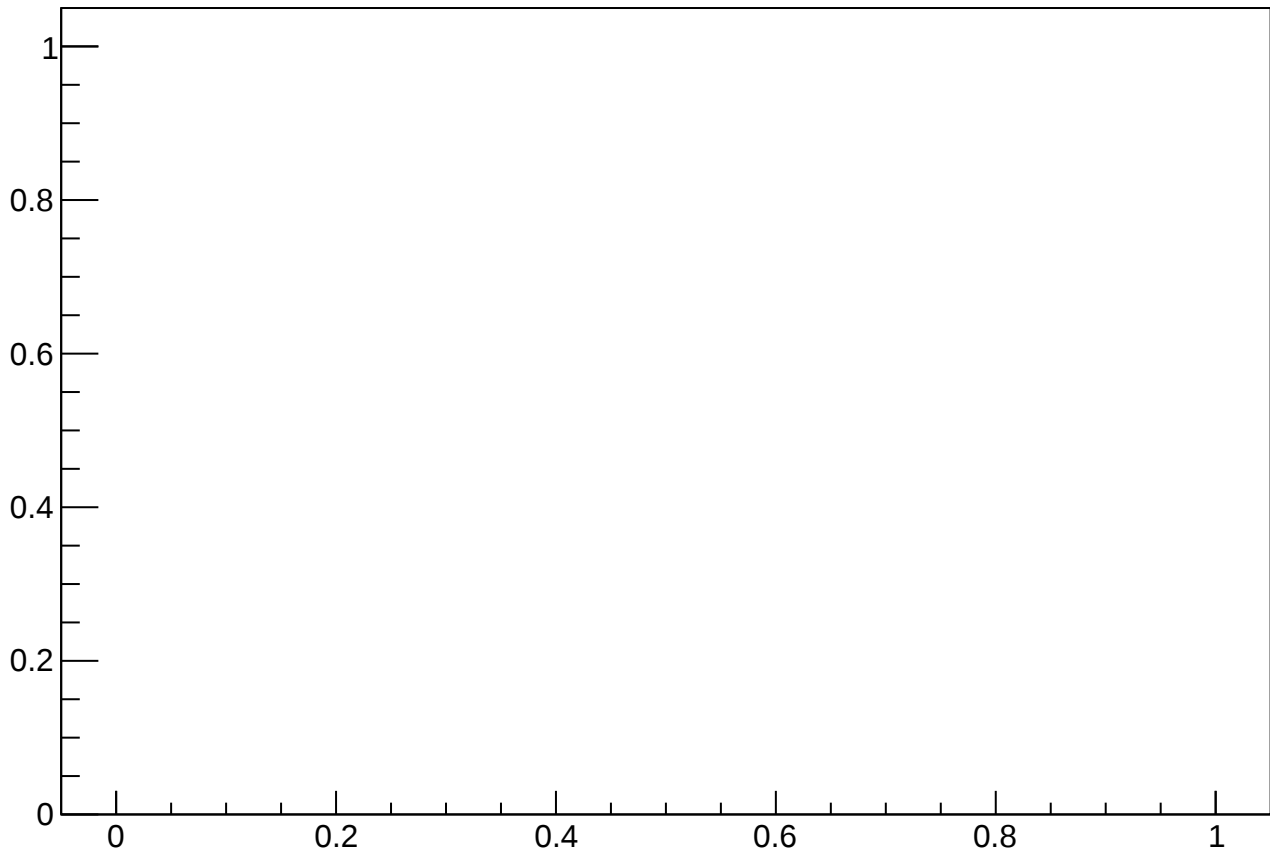
Right: 216.040 $\pm$ 0.032 χ^2 /NDF: 2960506.8/51

In: 215.506 $\pm$ 0.029 χ^2 /NDF:2182044.4/46

Out: 222.812 $\pm$ 0.029 χ^2 /NDF:2690266.1/52

All: 219.190 $\pm$ 0.021 χ^2 /NDF: 4903644.0/99

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

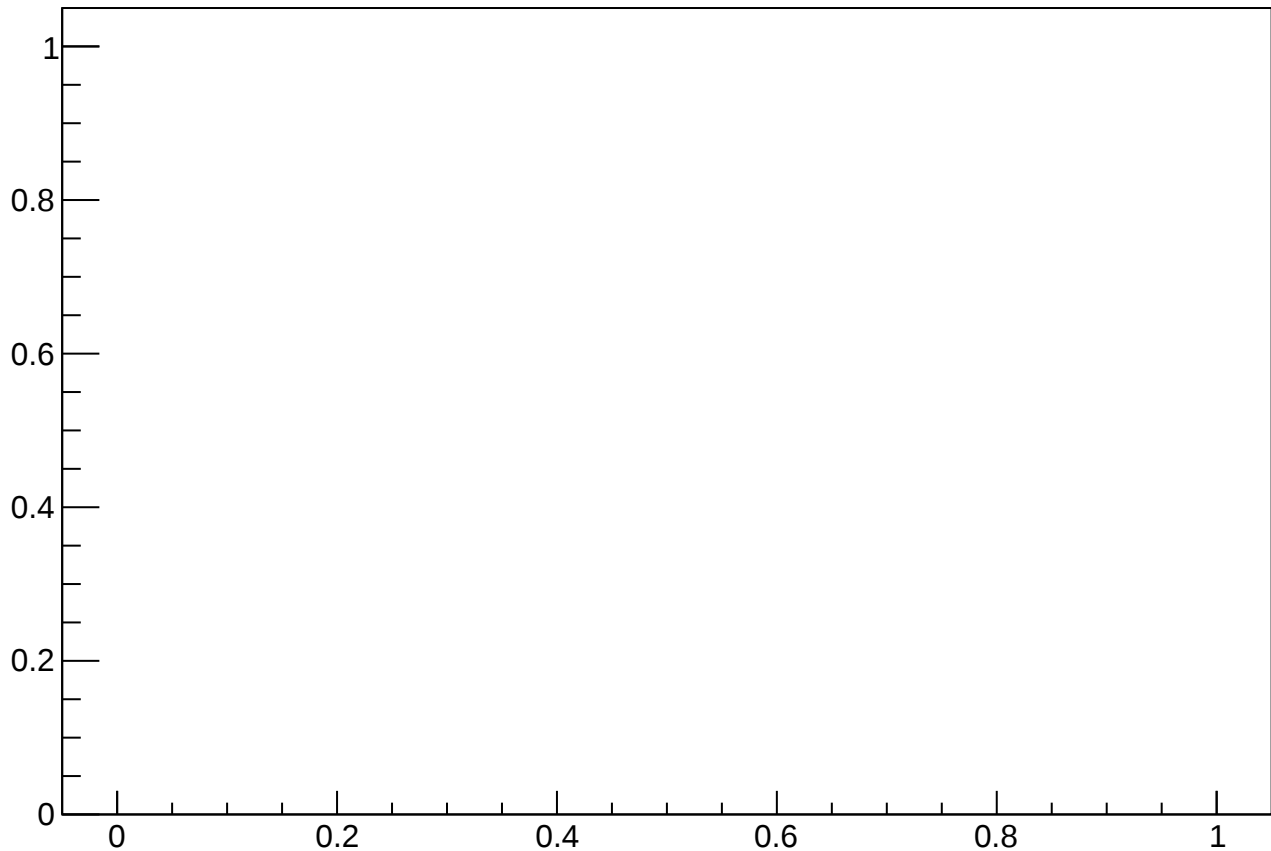
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

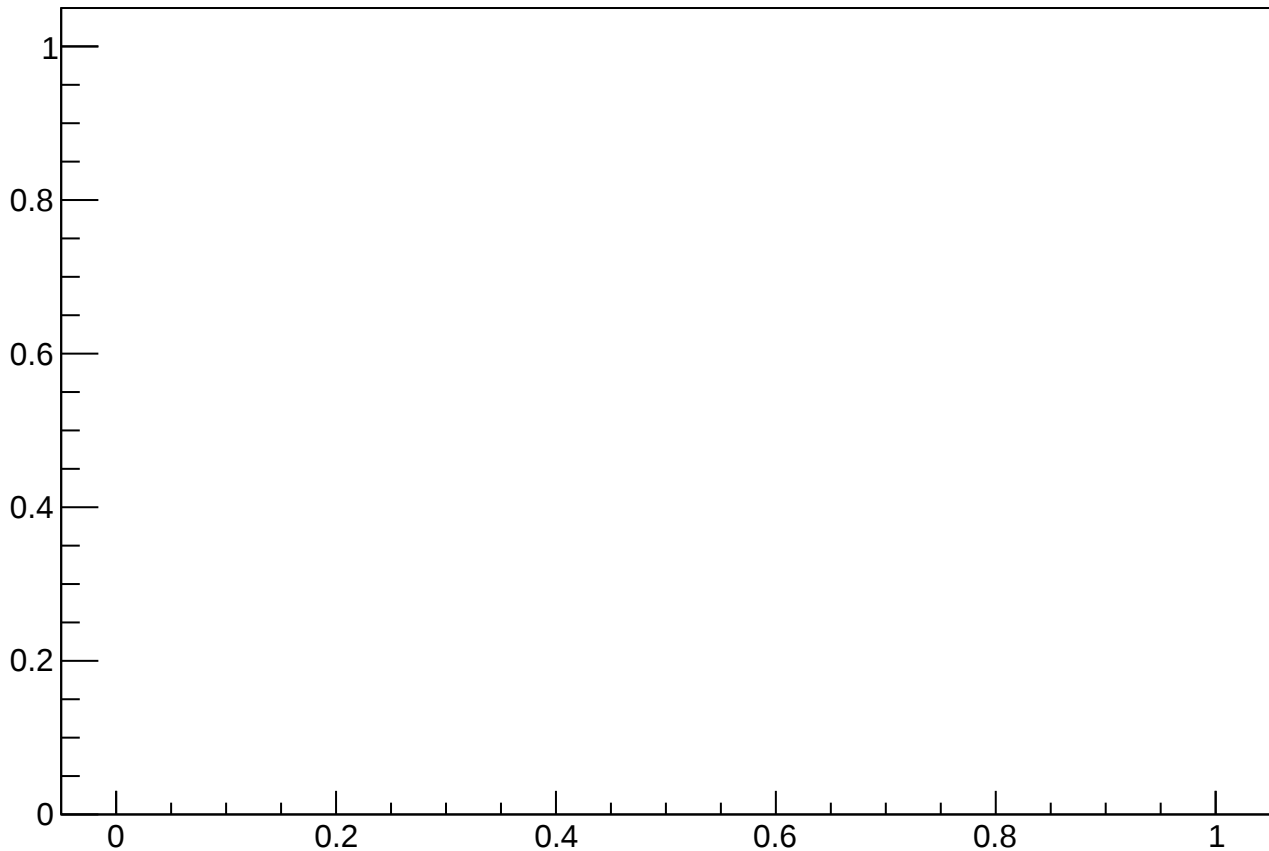
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

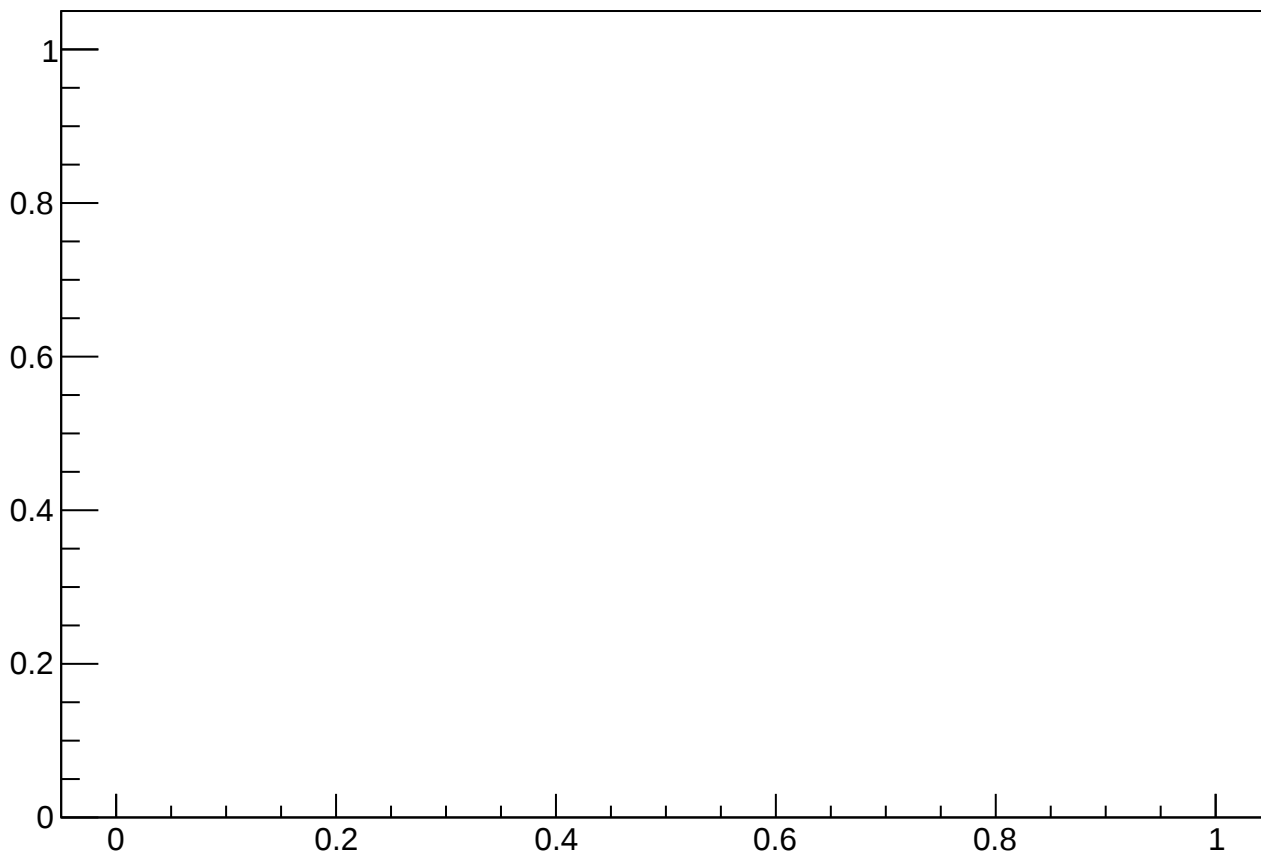
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

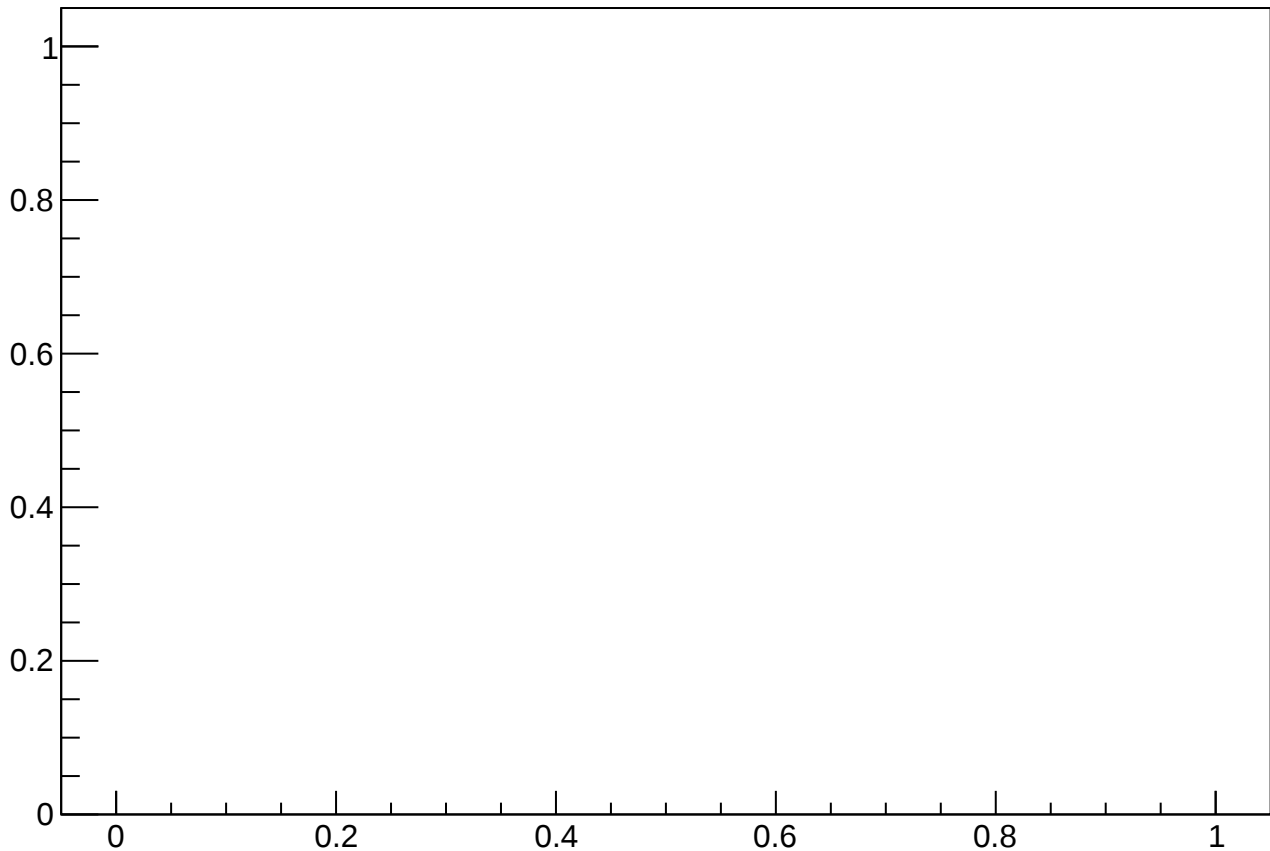
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

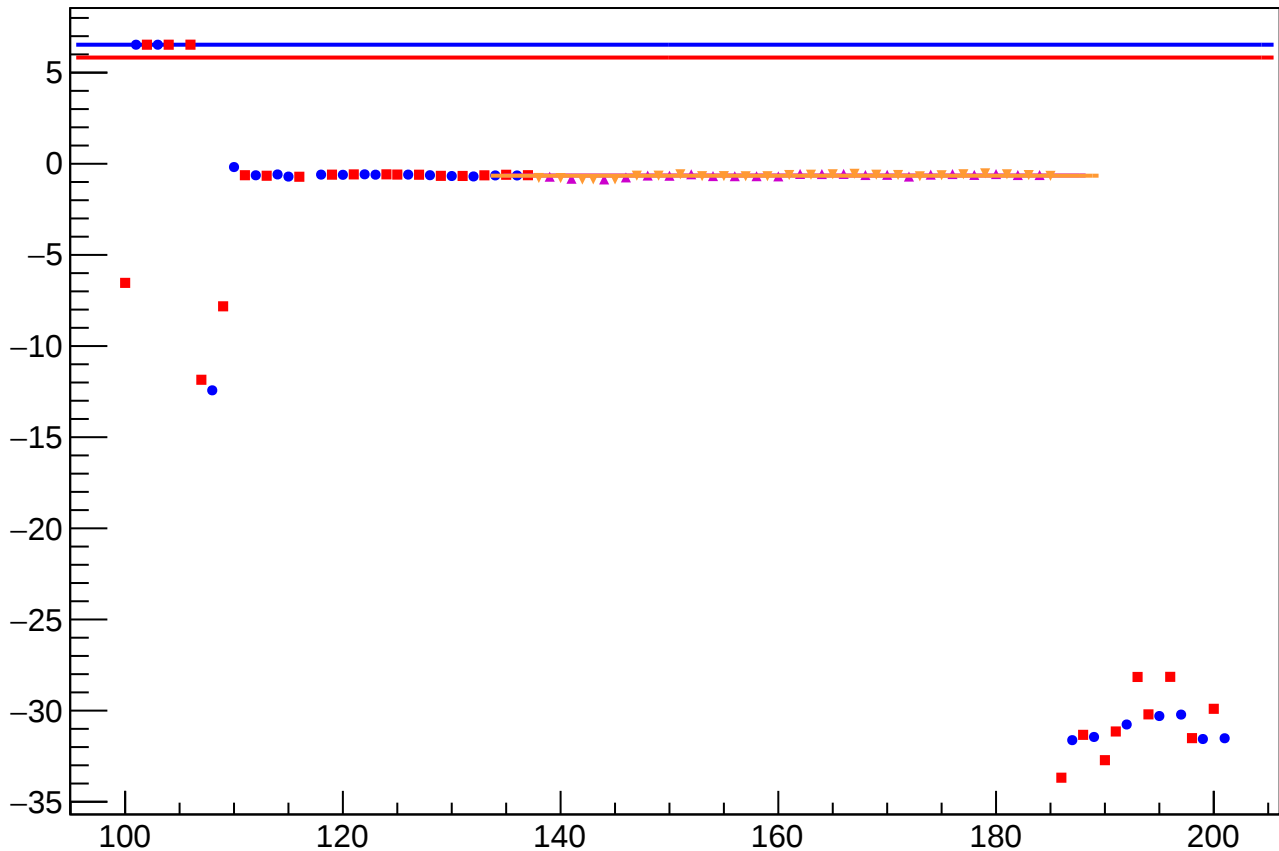
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 127909937043.8/23

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962297384310.6/27

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

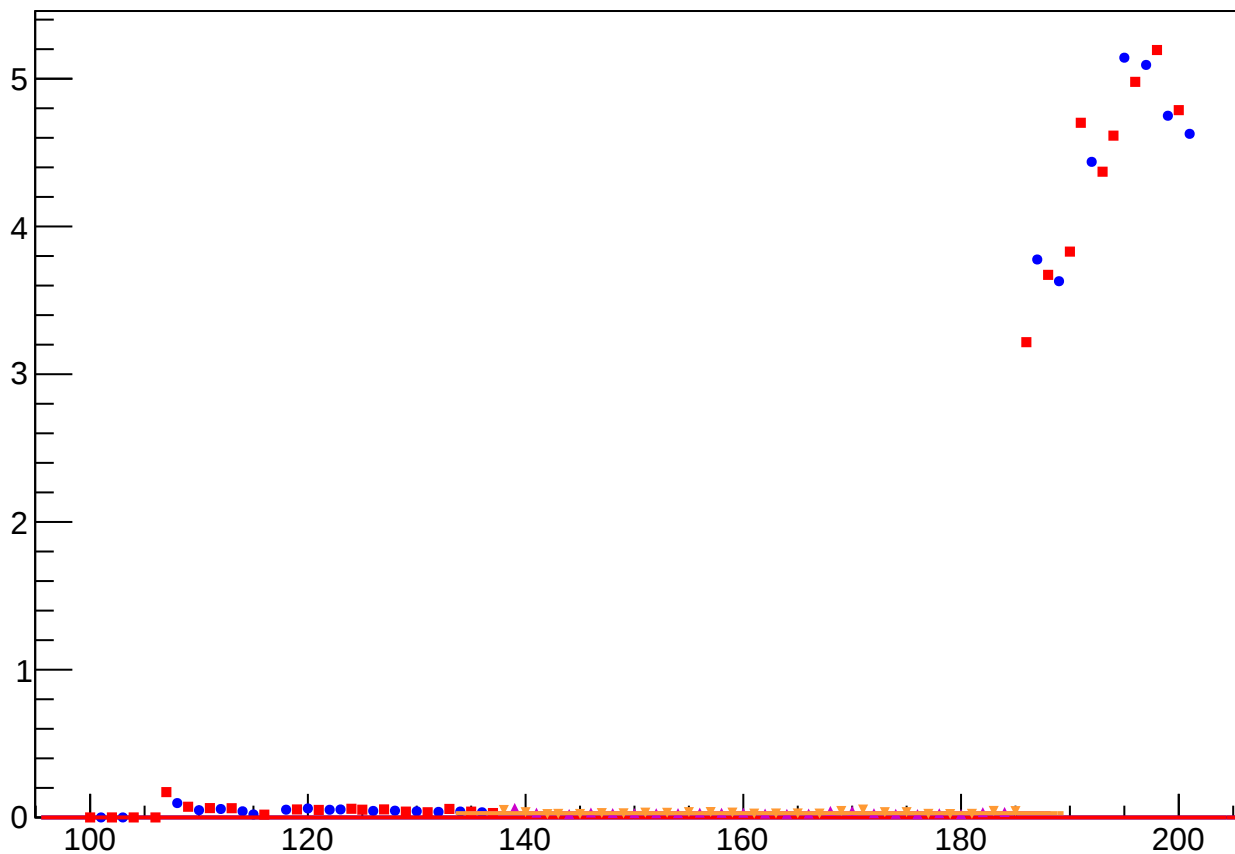
Right: 6.155+/-0.000 χ^2/NDF : 776094171287013.4/48

In: 6.530+/-0.000 χ^2/NDF : 962028523021.9/46

Out: 5.826+/-0.000 χ^2/NDF : 756673314274568.1/50

All: 6.153+/-0.000 χ^2/NDF : 77762760316717.1/100

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18046545.7/23

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 20763011.0/27

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

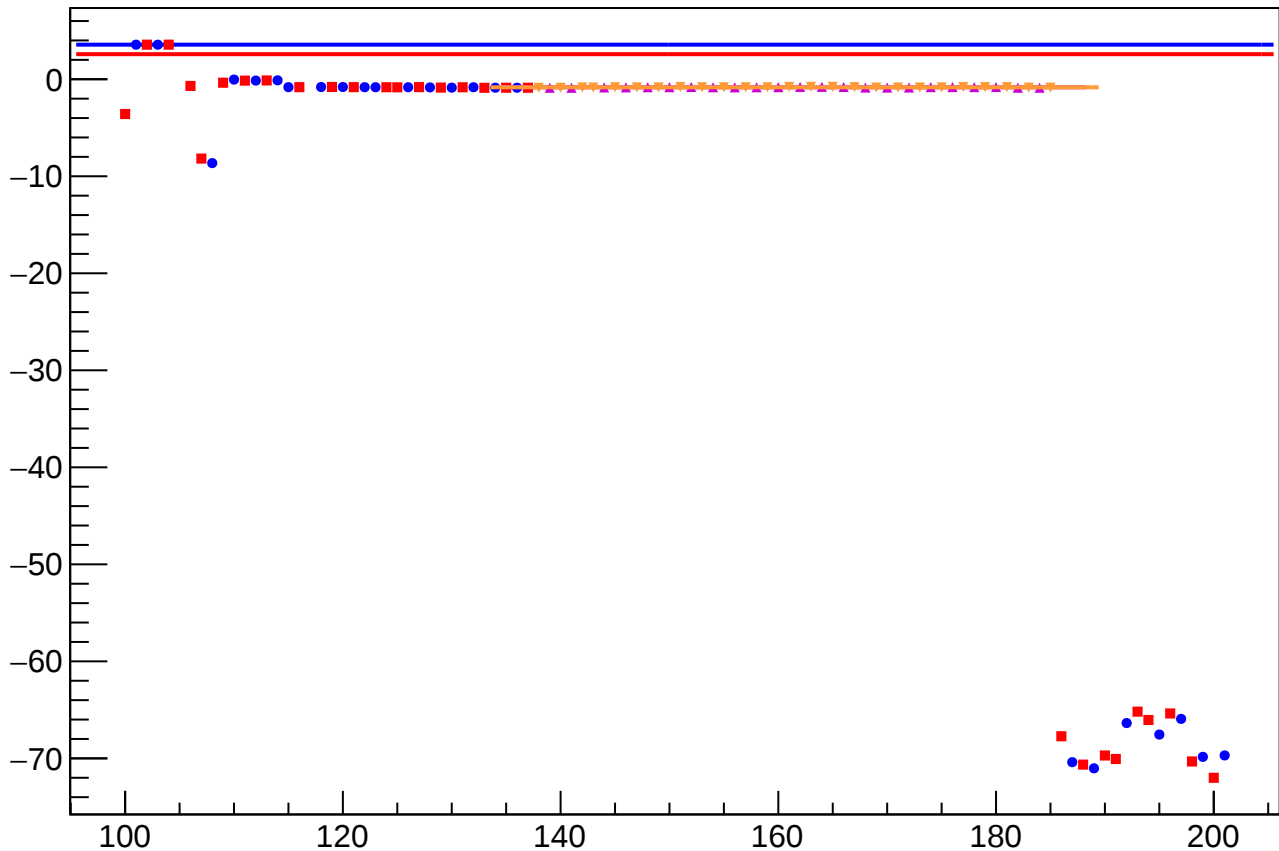
Right: 0.000+/-0.000 χ^2/NDF : 38809804.4/51

In: 0.000+/-0.000 χ^2/NDF :46224346.5/46

Out: 0.000+/-0.000 χ^2/NDF :50731047.1/52

All: 0.000+/-0.000 χ^2/NDF : 96955819.3/99

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 496589994136.5/23

Left Out: -0.827+/-0.000 χ^2/NDF : 170052639.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253522413605559.8/27

Left In: -0.827+/-0.000 χ^2/NDF : 174130375.4/22

Left: -0.827+/-0.000 χ^2/NDF : 344237775.5/47

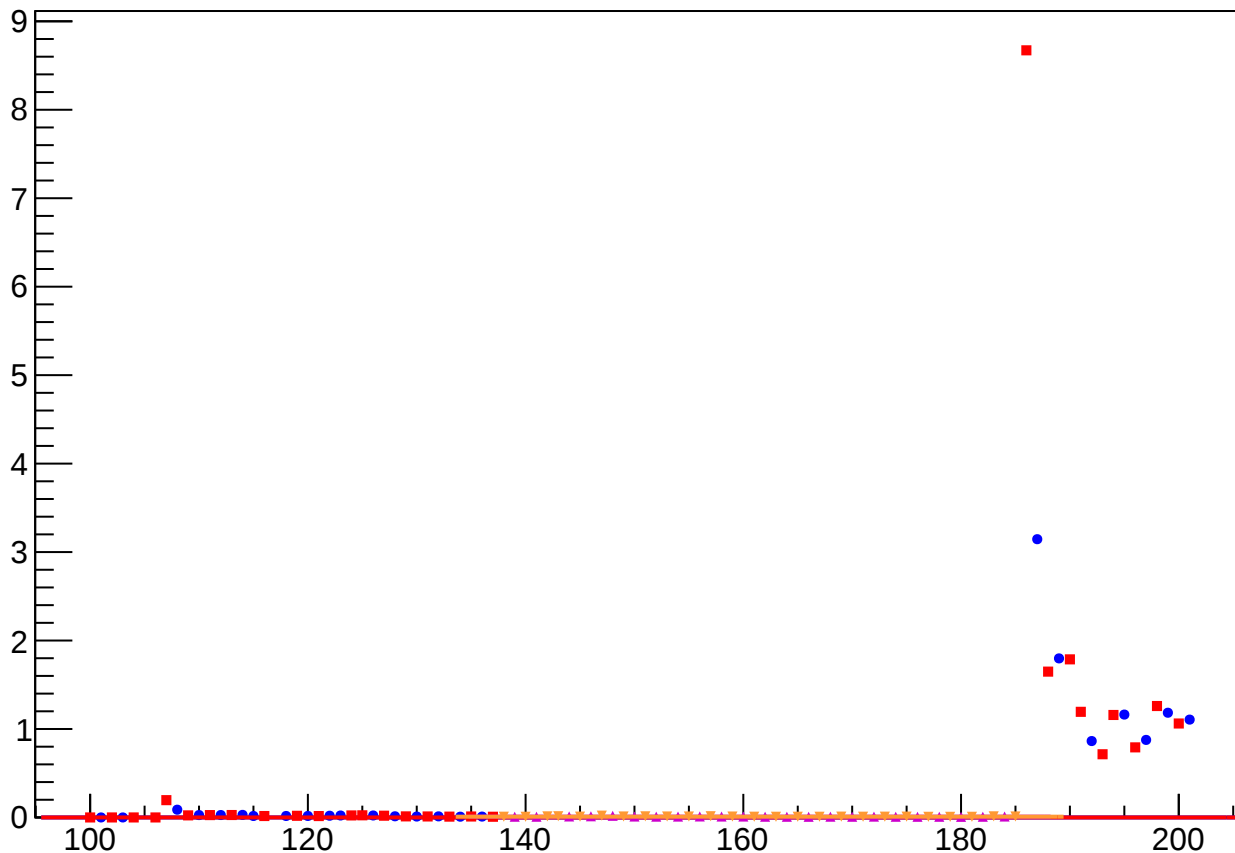
Right: 3.040+/-0.000 χ^2/NDF : 1382290141312421.5

In: 3.560+/-0.000 χ^2/NDF : 4177150780953.2/46

Out: 2.581+/-0.000 χ^2/NDF : 1255753314442330.2

All: 3.038+/-0.000 χ^2/NDF : 13880147021509

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17090911.6/23

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 19659270.1/27

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

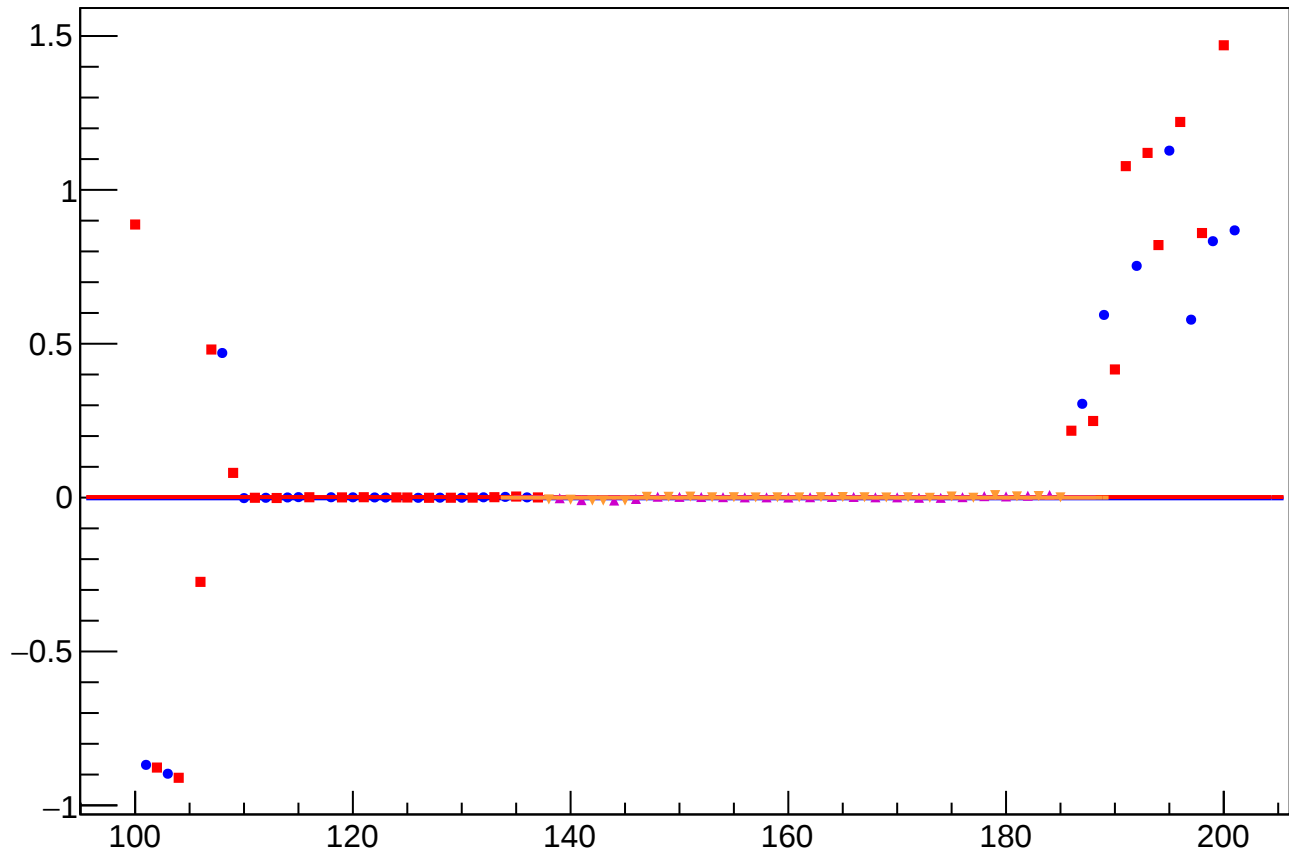
Right: 0.000+/-0.000 χ^2/NDF : 36750455.2/51

In: 0.000+/-0.000 χ^2/NDF :46888064.0/46

Out: 0.000+/-0.000 χ^2/NDF :51177412.0/52

All: 0.000+/-0.000 χ^2/NDF : 98066253.7/99

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9795891611.1/23

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 : 12853055136.5/51

Right Out: 0.002+/-0.000

χ^2/NDF : 3043015859.7/27

In: -0.000+/-0.000 χ^2/NDF : 9908802347.7/46

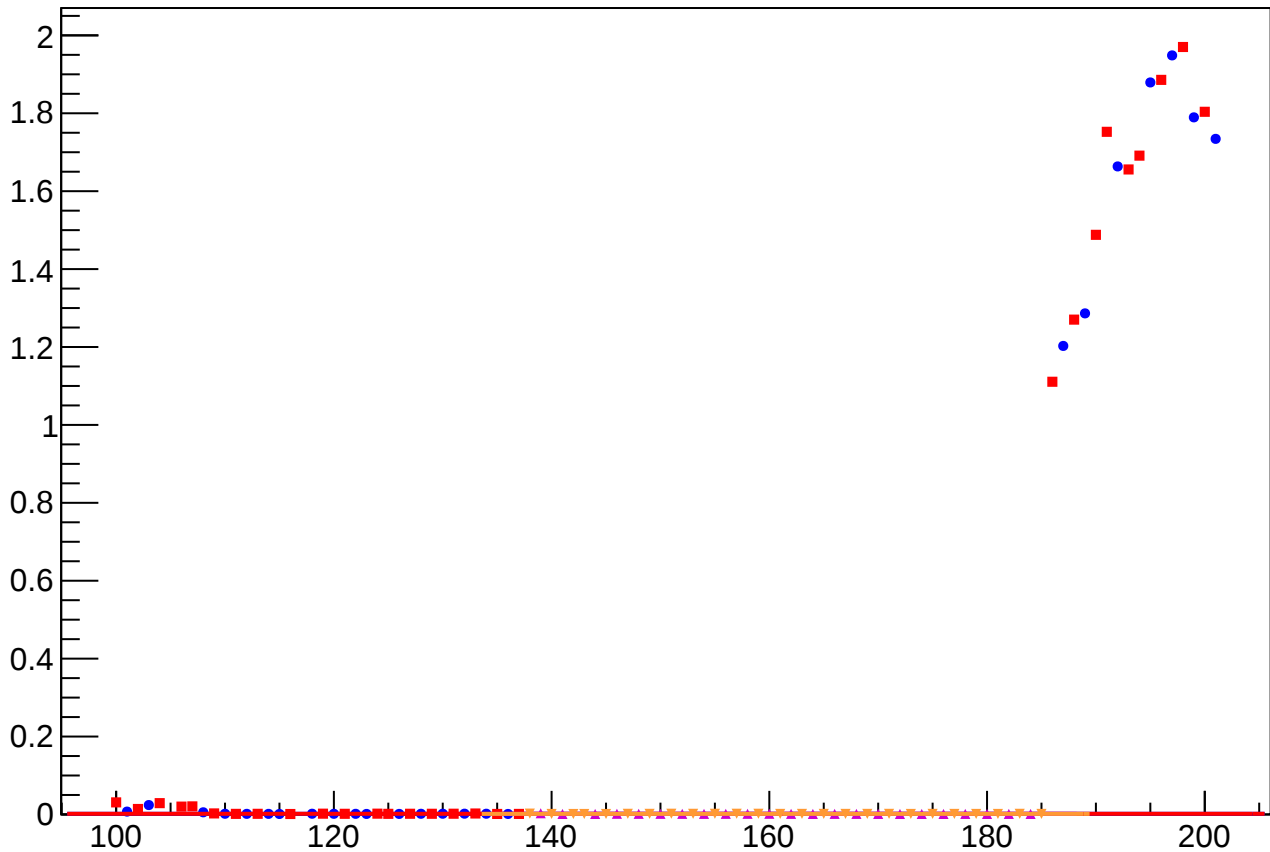
Out: 0.000+/-0.000 χ^2/NDF : 3199251497.9/52

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

All: 0.000+/-0.000 χ^2/NDF : 13108425382.7/9

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 11080671.9/23

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 14437222.0/27

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

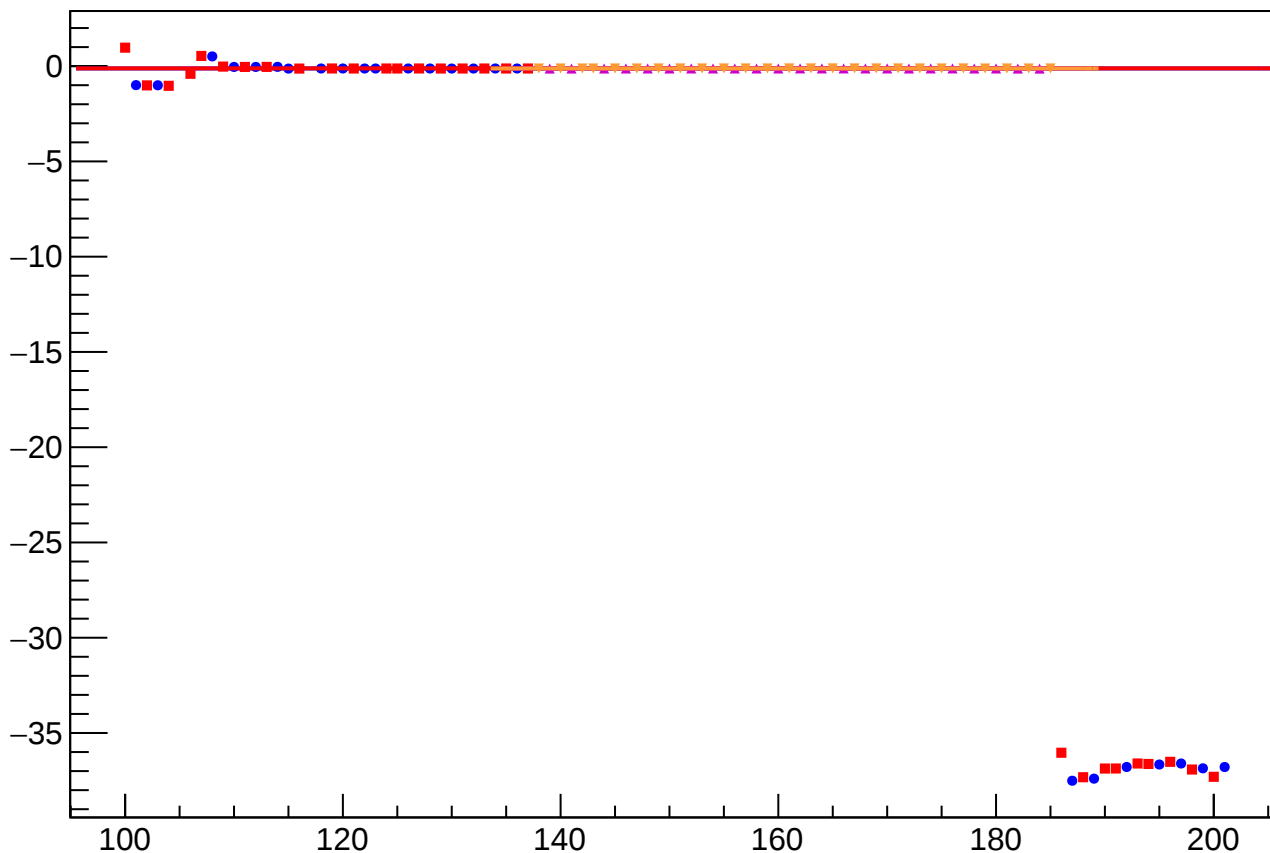
Right: 0.002+/-0.000 χ^2/NDF : 25525883.1/51

In: 0.002+/-0.000 χ^2/NDF :11792388.6/46

Out: 0.002+/-0.000 χ^2/NDF :15111865.3/52

All: 0.002+/-0.000 χ^2/NDF : 26904878.7/99

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 41862751096.5/23

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.116+/-0.000 χ^2/NDF : 49659143423.7/27

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

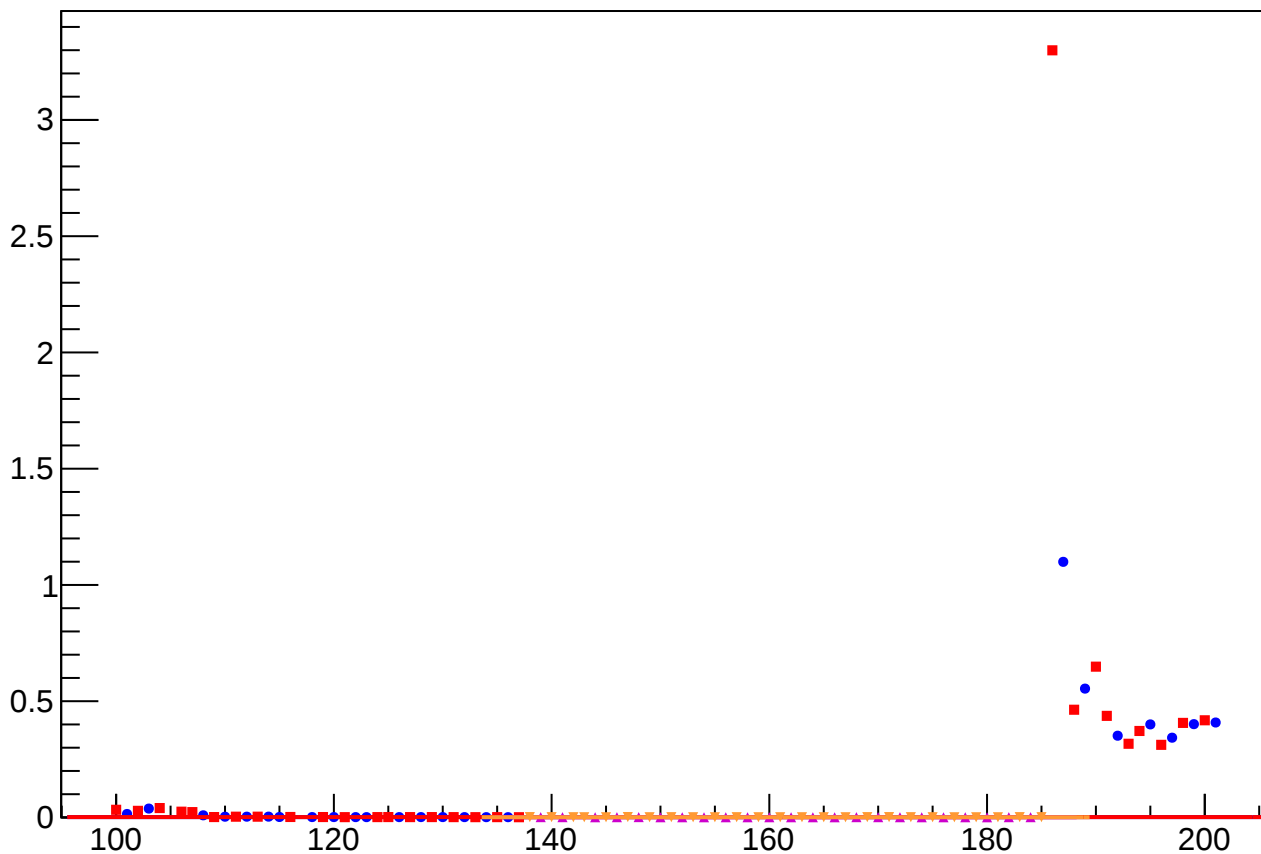
Right: -0.118+/-0.000 χ^2/NDF : 91543511600.3/51

In: -0.121+/-0.000 χ^2/NDF : 41915889929.8/46

Out: -0.121+/-0.000 χ^2/NDF : 49760370794.5/52

All: -0.121+/-0.000 χ^2/NDF : 91677159286.2/100

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 11574151.2/23

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 14485812.0/27

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

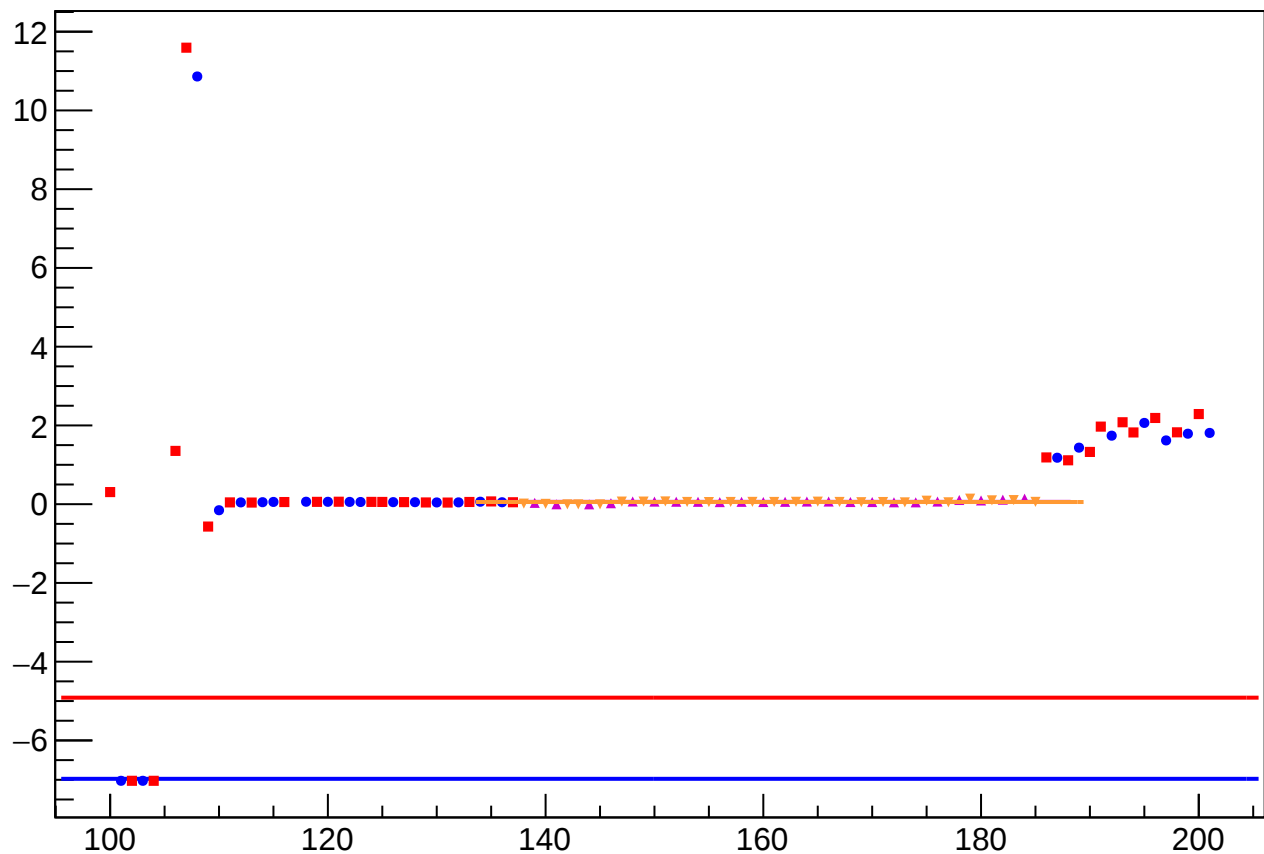
Right: 0.002+/-0.000 χ^2/NDF : 26059994.6/51

In: 0.001+/-0.000 χ^2/NDF :13687034.9/46

Out: 0.001+/-0.000 χ^2/NDF :17017717.4/52

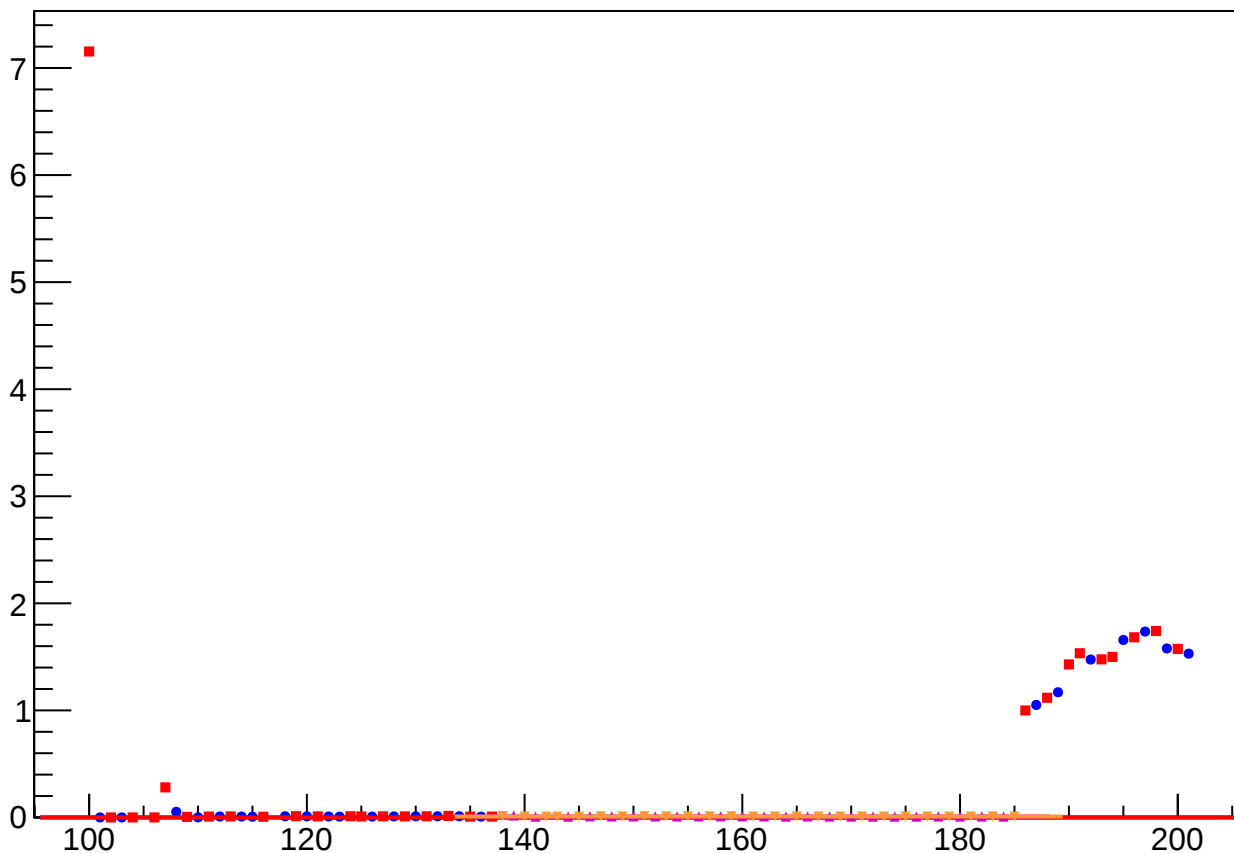
All: 0.001+/-0.000 χ^2/NDF : 30706857.2/99

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762602875417.2/23$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348658605721.0/27$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435814382239$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17404134.1/23

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 20192737.8/27

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

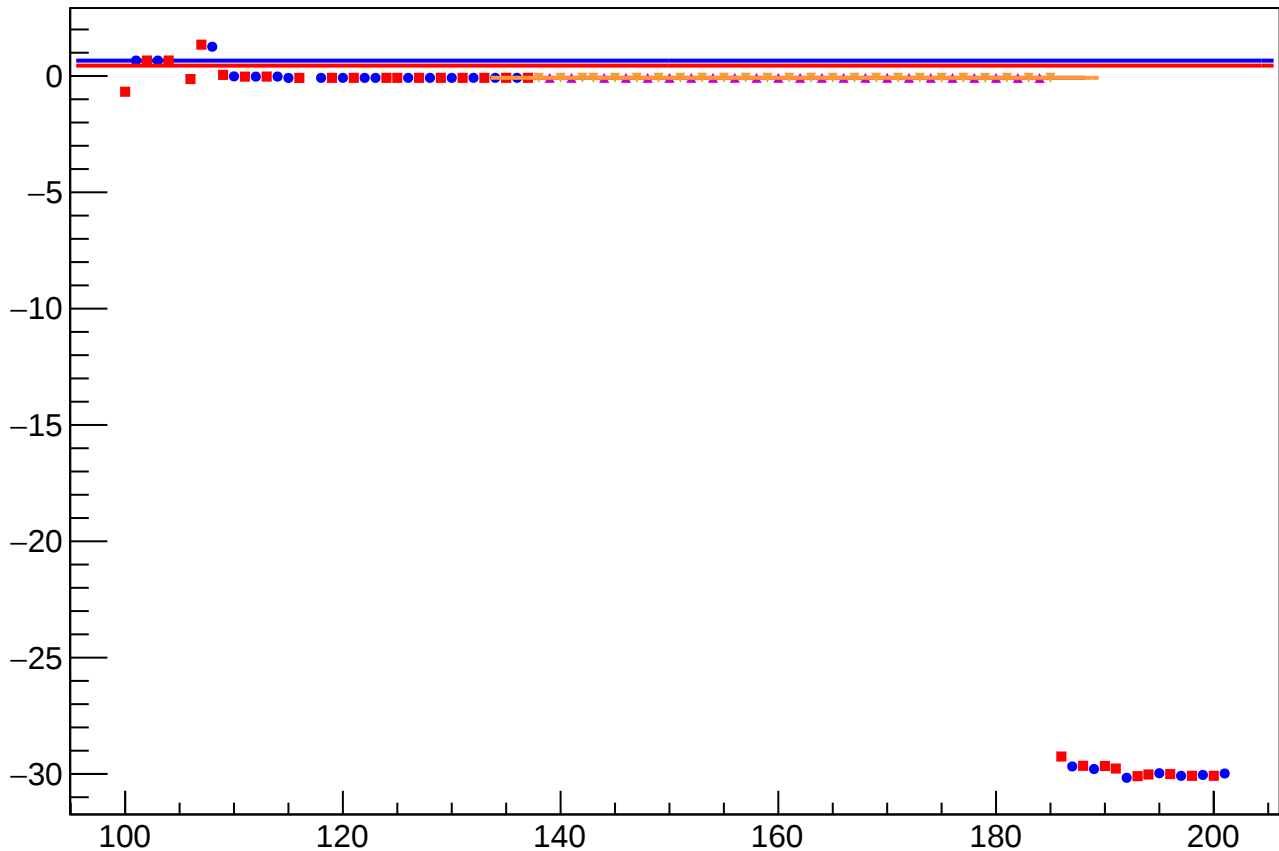
Right: 0.000+/-0.000 χ^2/NDF : 37597175.7/51

In: 0.000+/-0.000 χ^2/NDF : 45041024.3/46

Out: 0.000+/-0.000 χ^2/NDF : 49220888.1/52

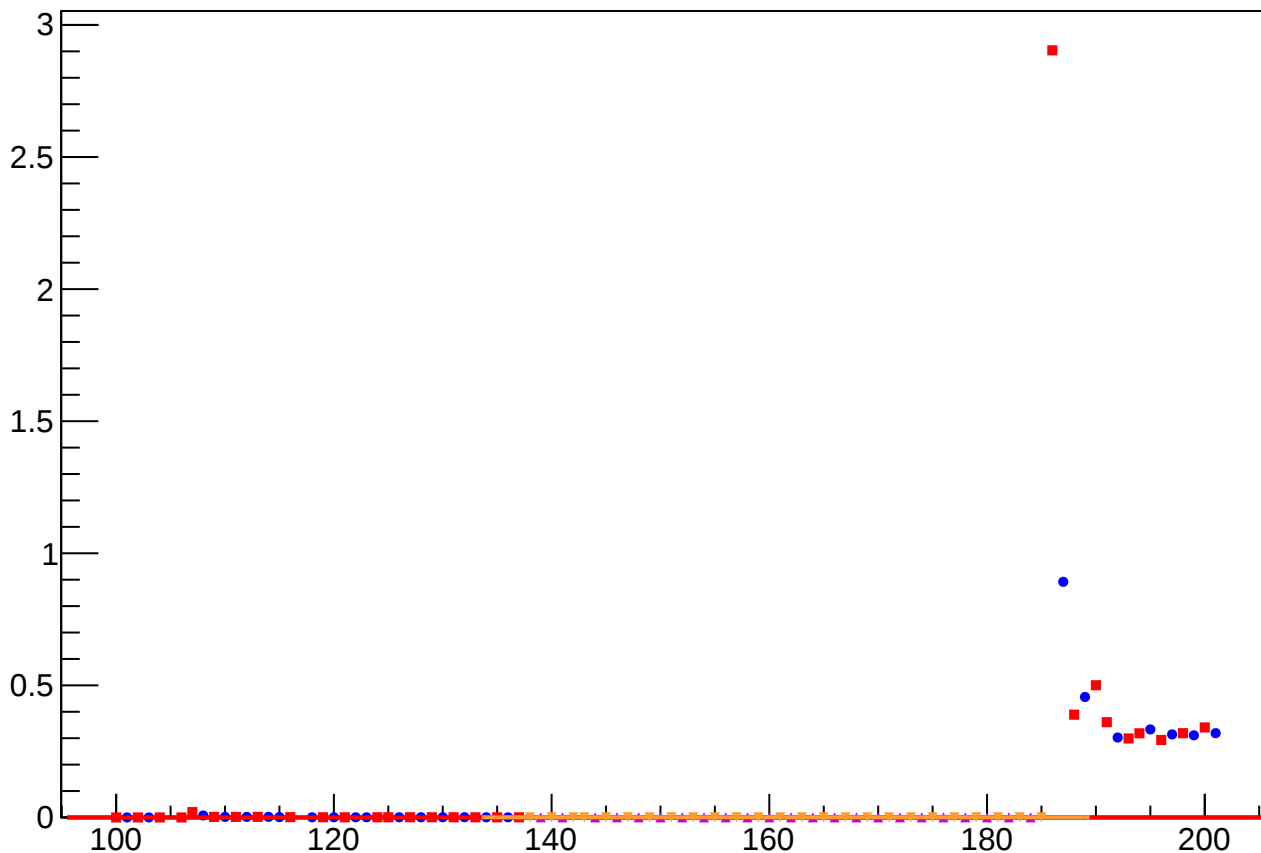
All: 0.000+/-0.000 χ^2/NDF : 94262398.9/99

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5624808586623.6/23	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 : 474015352423200.0
Right Out: 0.446+/-0.000	χ^2/NDF : 405461320866089.2/27	In: 0.647+/-0.000	χ^2/NDF : 33884762208947.3/46
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420655898180139.5/5
		All: 0.537+/-0.000	χ^2/NDF : 51606534365485

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18859301.5/23

Left Out: 0.001+/-0.000 χ^2/NDF : 466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 20722085.1/27

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

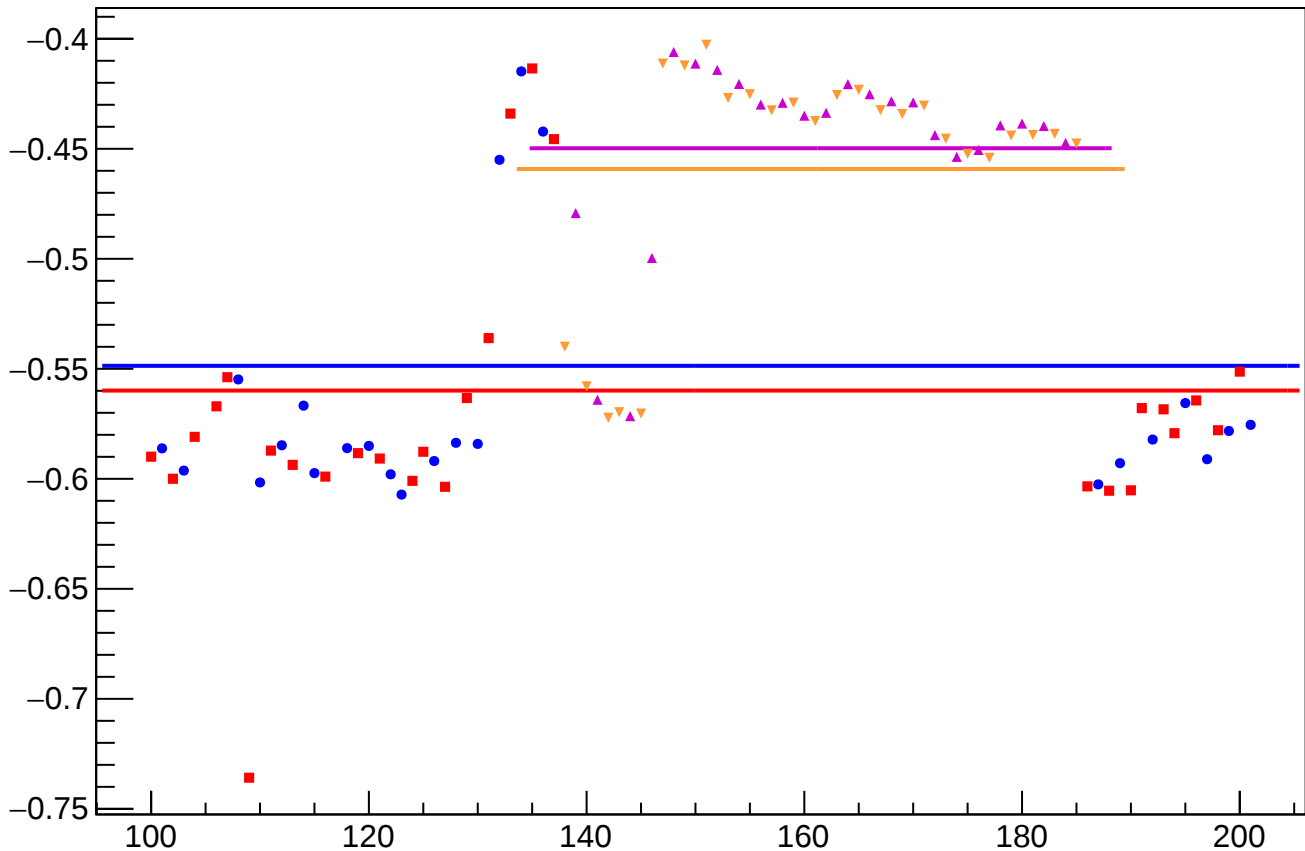
Right: 0.000+/-0.000 χ^2/NDF : 39581392.9/51

In: 0.000+/-0.000 χ^2/NDF : 49837756.6/46

Out: 0.000+/-0.000 χ^2/NDF : 53436017.2/52

All: 0.000+/-0.000 χ^2/NDF : 103274172.4/99

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.549 $\pm$ 0.000 χ^2 /NDF: 47695168.8/23

Left Out: -0.459 $\pm$ 0.000 χ^2 /NDF: 113808762.6/24

Right Out: -0.560 $\pm$ 0.000 χ^2 /NDF: 65297179.9/27

Left In: -0.450 $\pm$ 0.000 χ^2 /NDF: 76151485.7/22

Left: -0.455 $\pm$ 0.000 χ^2 /NDF: 191688333.2/47

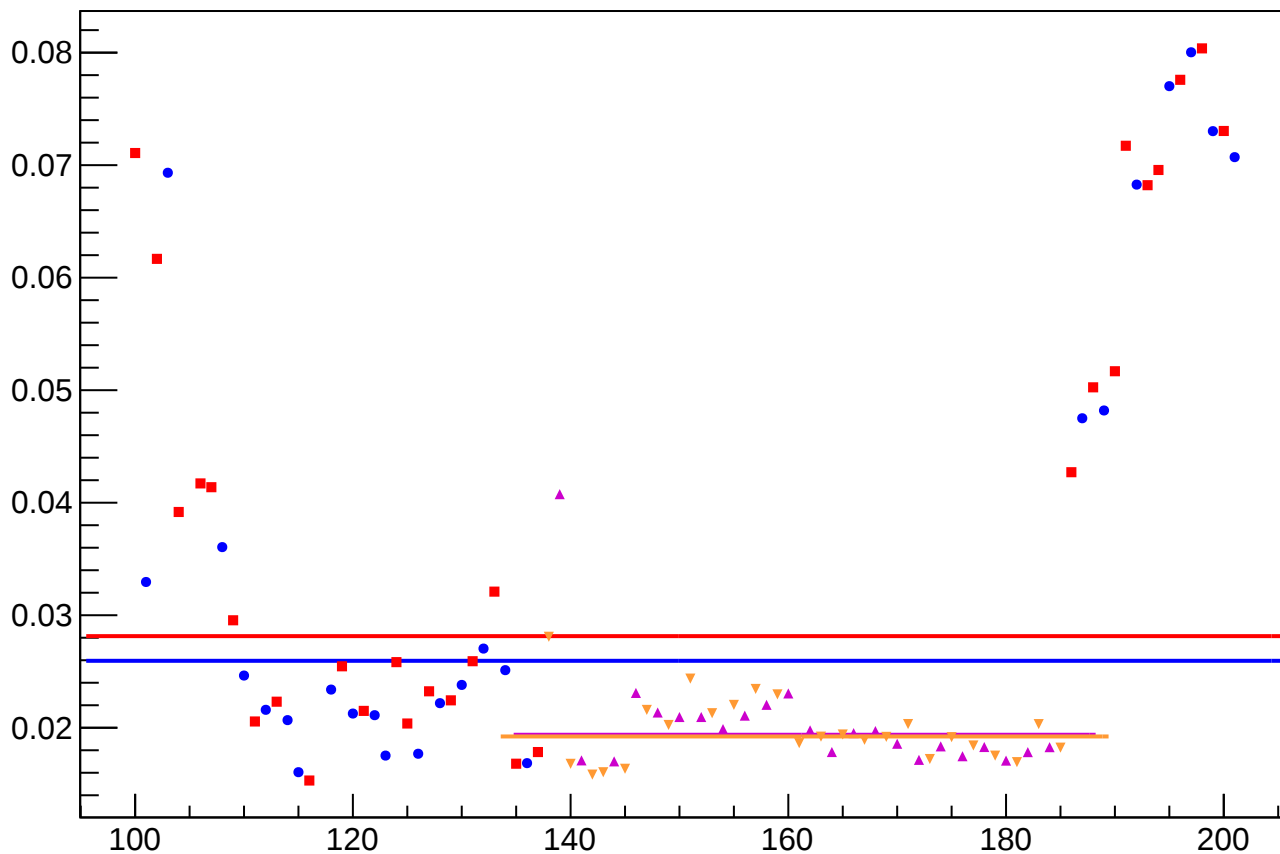
Right: -0.554 $\pm$ 0.000 χ^2 /NDF: 113707161.1/51

In: -0.473 $\pm$ 0.000 χ^2 /NDF: 209117039.4/46

Out: -0.481 $\pm$ 0.000 χ^2 /NDF: 268295264.0/52

All: -0.477 $\pm$ 0.000 χ^2 /NDF: 479179346.6/99

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.026+/-0.000 χ^2/NDF : 4887562.9/23

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.028+/-0.000 χ^2/NDF : 5357618.7/27

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

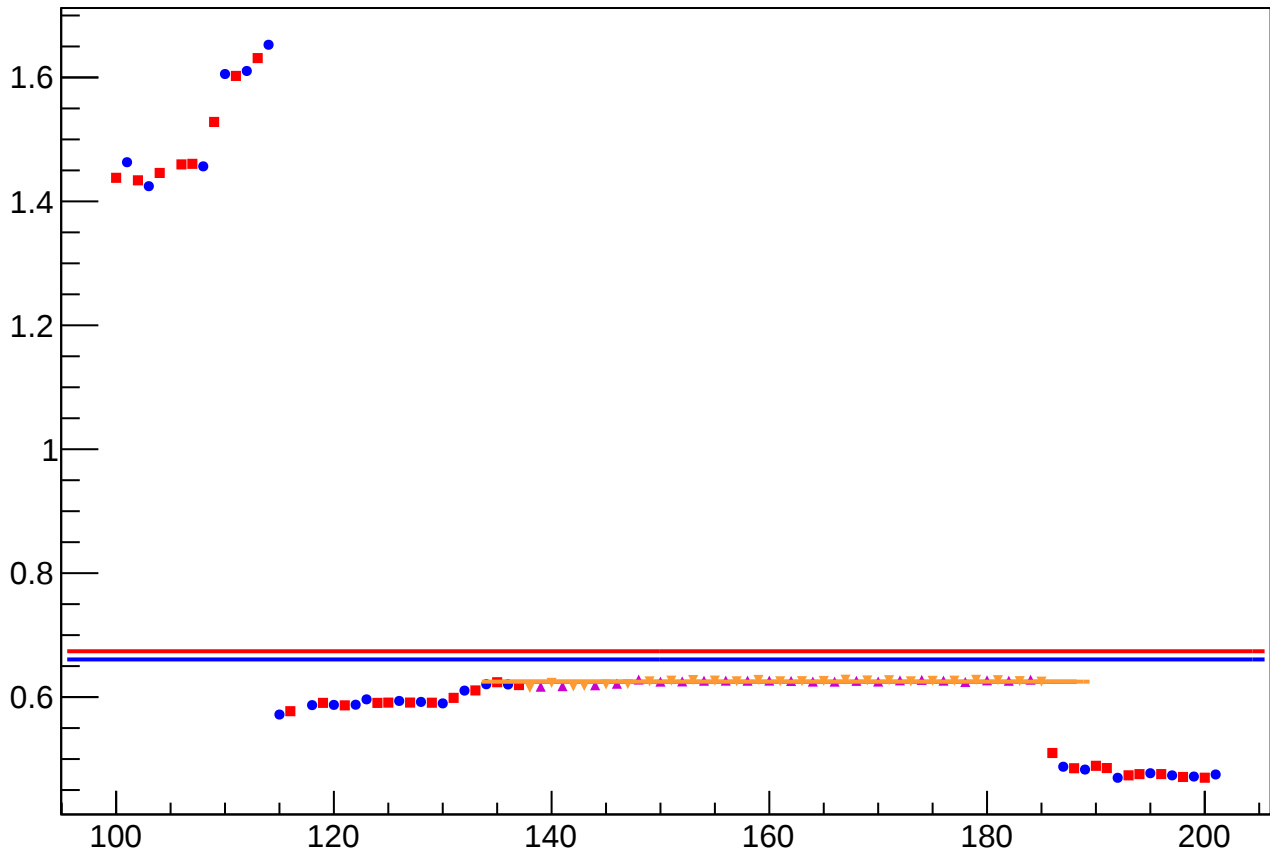
Right: 0.027+/-0.000 χ^2/NDF : 10299584.2/51

In: 0.021+/-0.000 χ^2/NDF : 6296962.8/46

Out: 0.021+/-0.000 χ^2/NDF : 7257636.4/52

All: 0.021+/-0.000 χ^2/NDF : 13558131.3/99

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000 χ^2/NDF : 4727898173.0/23

Left Out: 0.625+/-0.000 χ^2/NDF :1442225.6/24

Right Out: 0.674+/-0.000 χ^2/NDF : 5753559449.5/27

Left In: 0.625+/-0.000 χ^2/NDF :1135039.4/22

Left: 0.625+/-0.000 χ^2/NDF : 2577573.3/47

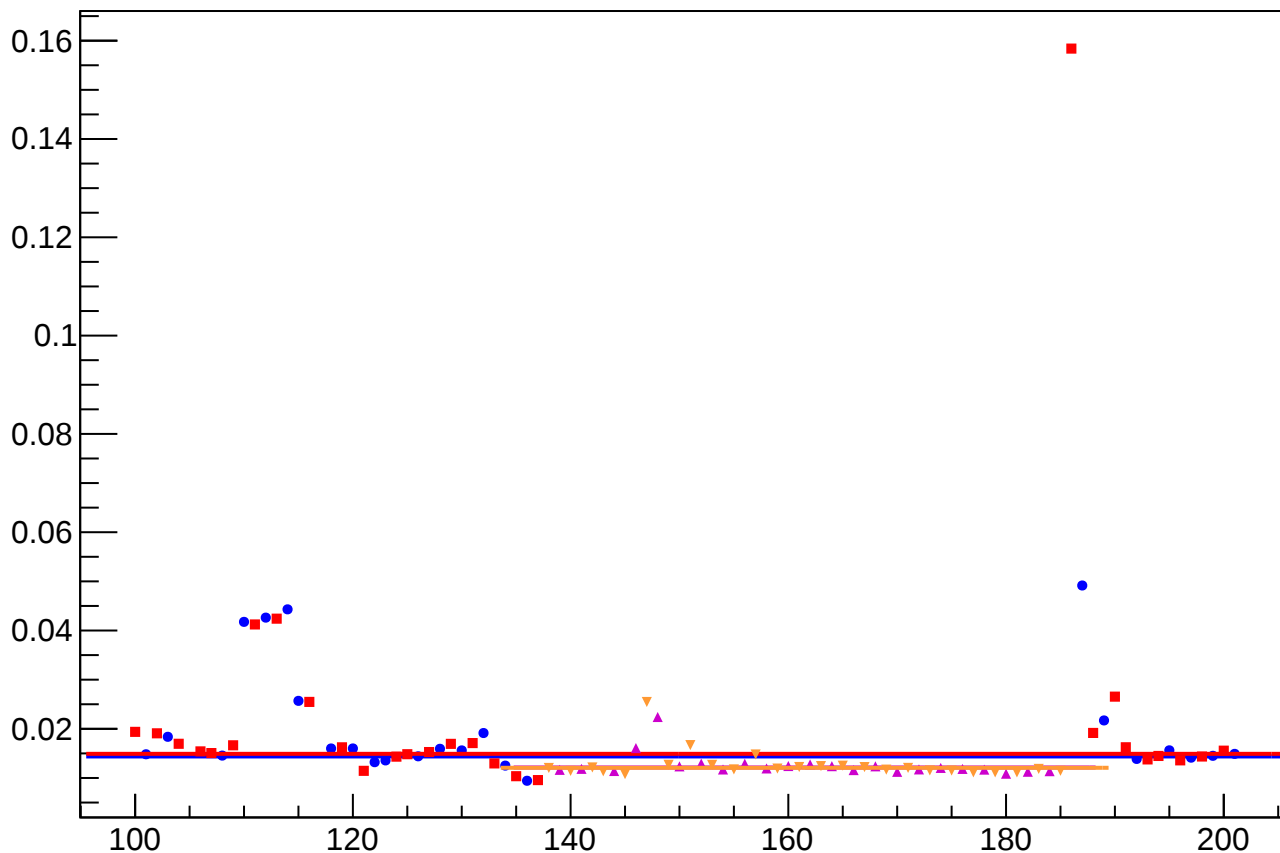
Right: 0.667+/-0.000 χ^2/NDF : 10485763797.6/51

In: 0.635+/-0.000 χ^2/NDF :4772729365.1/46

Out: 0.639+/-0.000 χ^2/NDF :5840624420.4/52

All: 0.637+/-0.000 χ^2/NDF : 10614559439.4/99

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1641752.5/23

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2072027.0/27

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

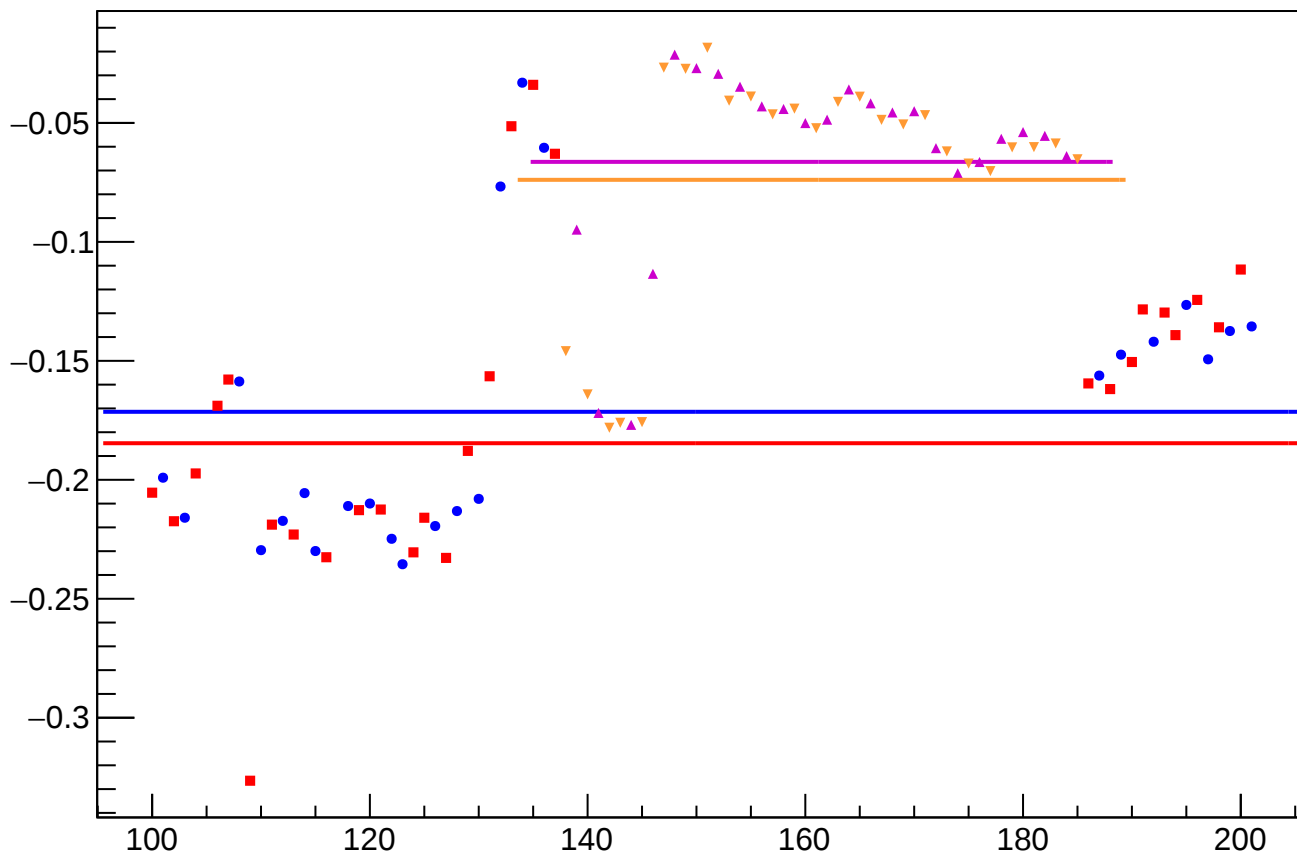
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3727795.7/51

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2470662.2/46

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3302471.7/52

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5774946.7/99

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.171+/-0.000 χ^2/NDF : 67944933.7/23

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.185+/-0.000 χ^2/NDF : 84831379.9/27

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

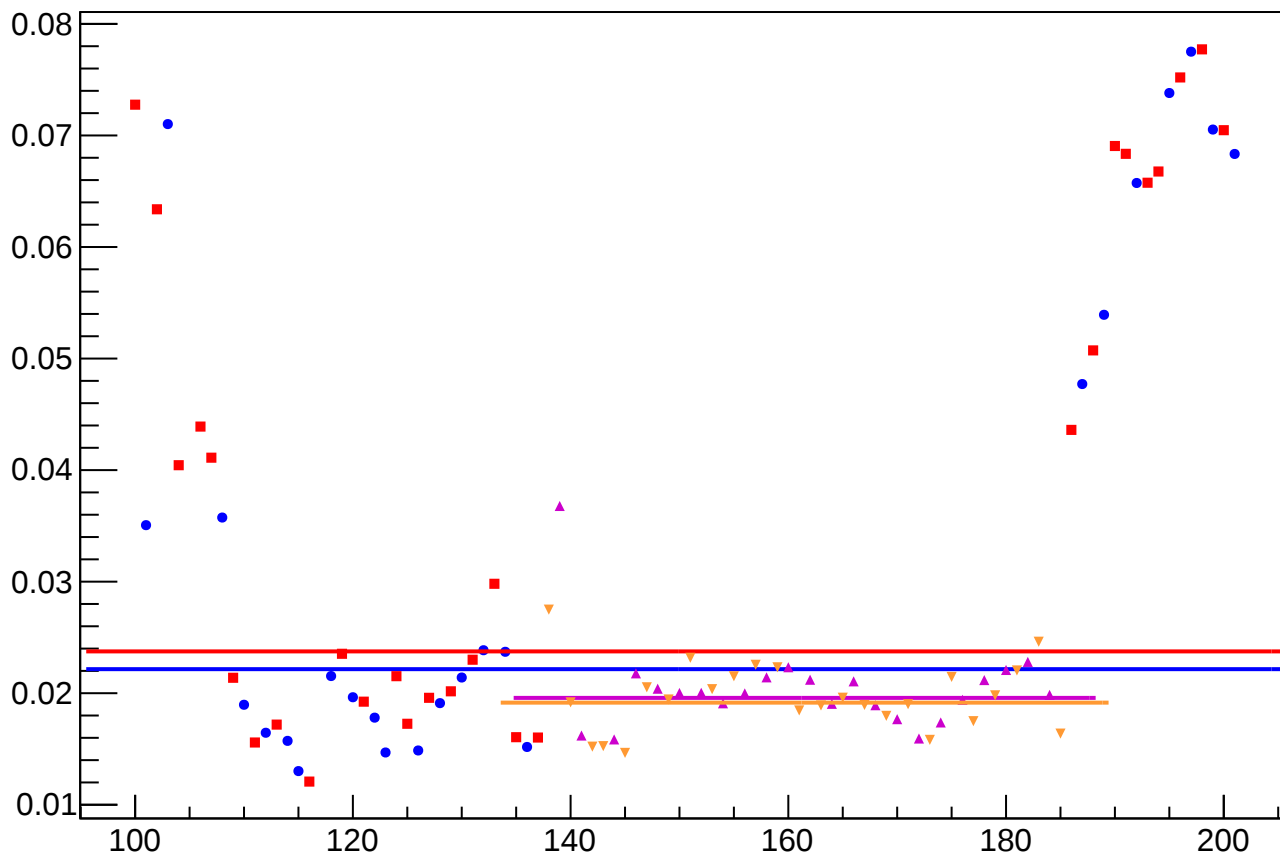
Right: -0.178+/-0.000 χ^2/NDF : 154069914.5/51

In: -0.096+/-0.000 χ^2/NDF : 261552570.2/46

Out: -0.103+/-0.000 χ^2/NDF : 326305943.8/52

All: -0.100+/-0.000 χ^2/NDF : 589191092.5/99

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.000 χ^2 /NDF: 5687567.1/23

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 641027.3/24

Right Out: 0.024 $\pm$ 0.000 χ^2 /NDF: 6520775.0/27

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

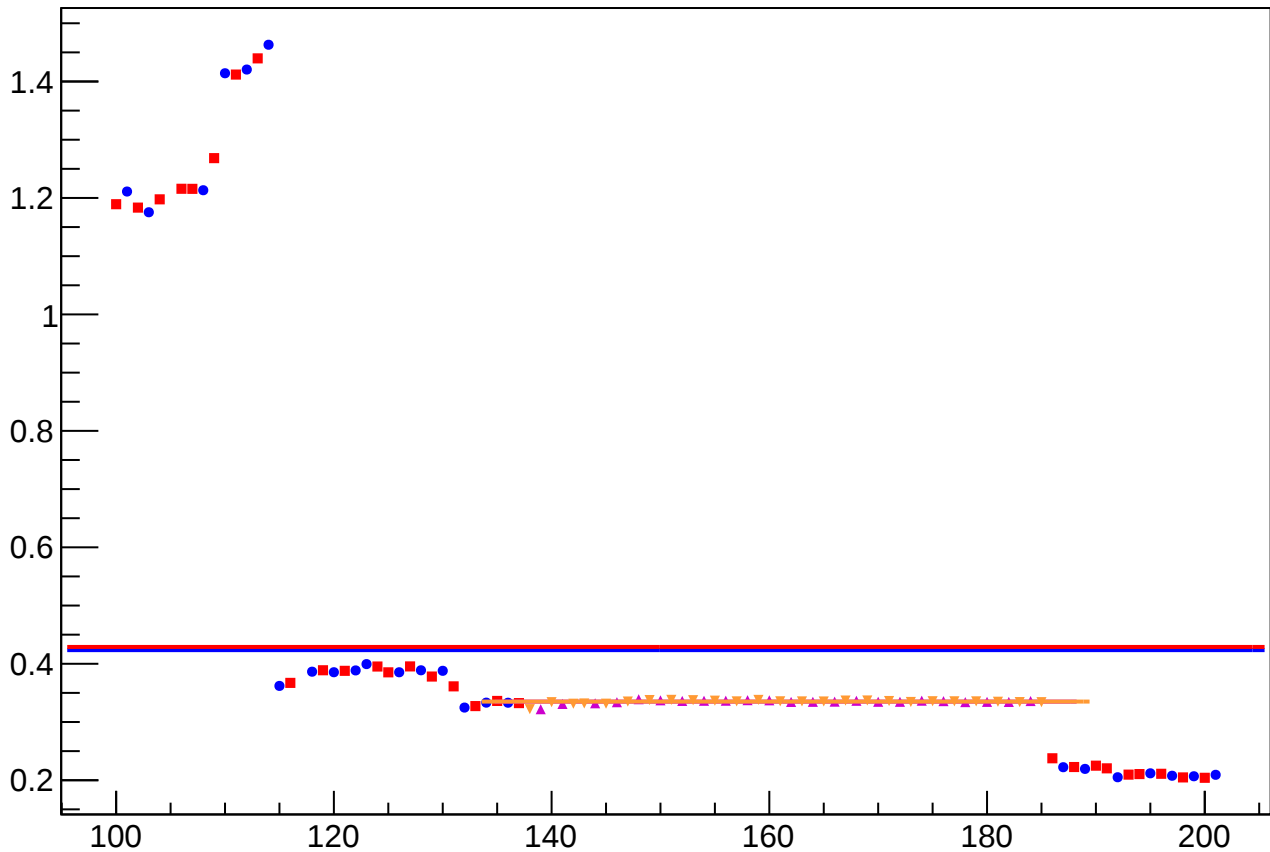
Right: 0.023 $\pm$ 0.000 χ^2 /NDF: 12245925.4/51

In: 0.020 $\pm$ 0.000 χ^2 /NDF: 6479928.5/46

Out: 0.020 $\pm$ 0.000 χ^2 /NDF: 7621709.3/52

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 14101821.8/99

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.423+/-0.000 χ^2/NDF : 6960181336.6/23

Left Out: 0.335+/-0.000 χ^2/NDF : 1153956.7/24

Right Out: 0.429+/-0.000 χ^2/NDF : 8096430391.6/27

Left In: 0.335+/-0.000 χ^2/NDF : 1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

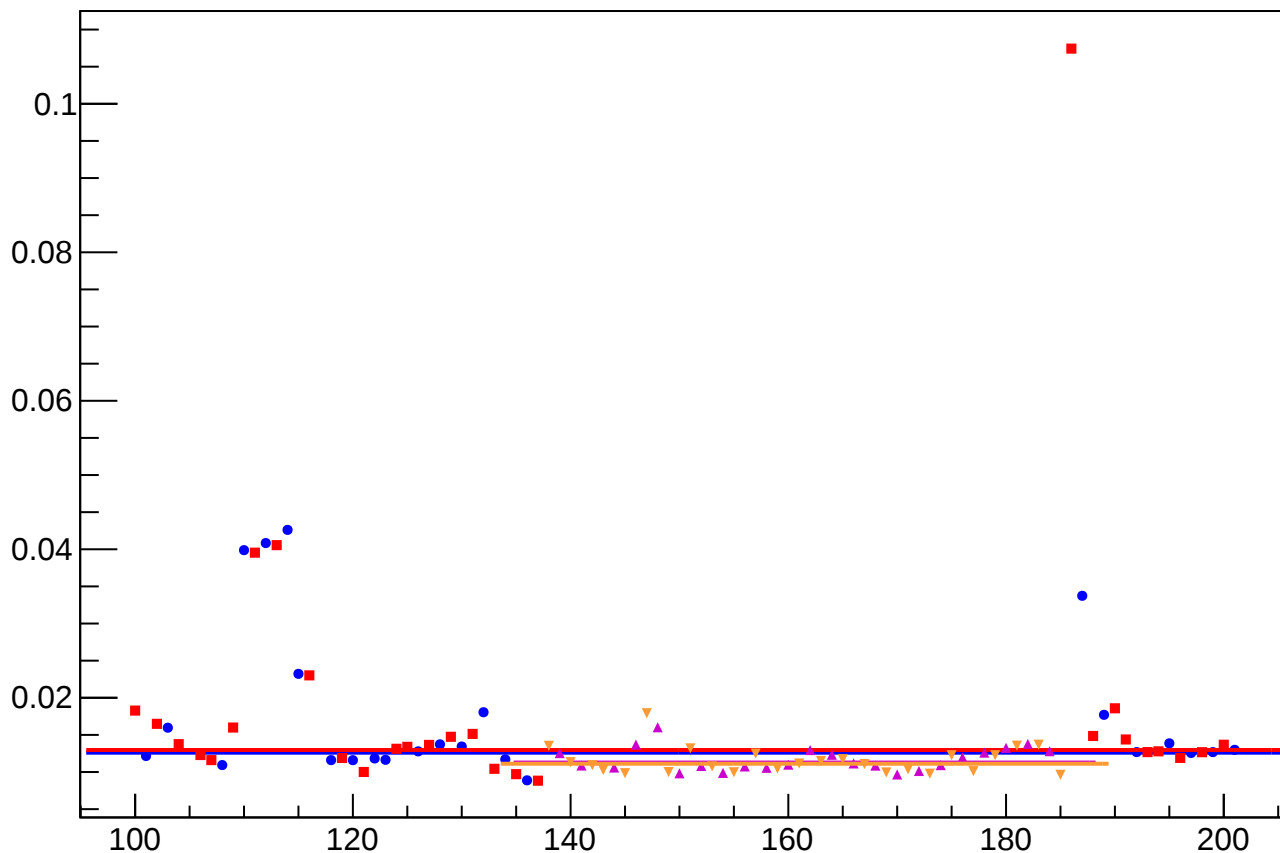
Right: 0.426+/-0.000 χ^2/NDF : 15057576617.1/51

In: 0.364+/-0.000 χ^2/NDF : 7293640182.4/46

Out: 0.365+/-0.000 χ^2/NDF : 8495837057.1/52

All: 0.364+/-0.000 χ^2/NDF : 15789653326.6/99

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1510258.8/23

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1933320.8/27

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

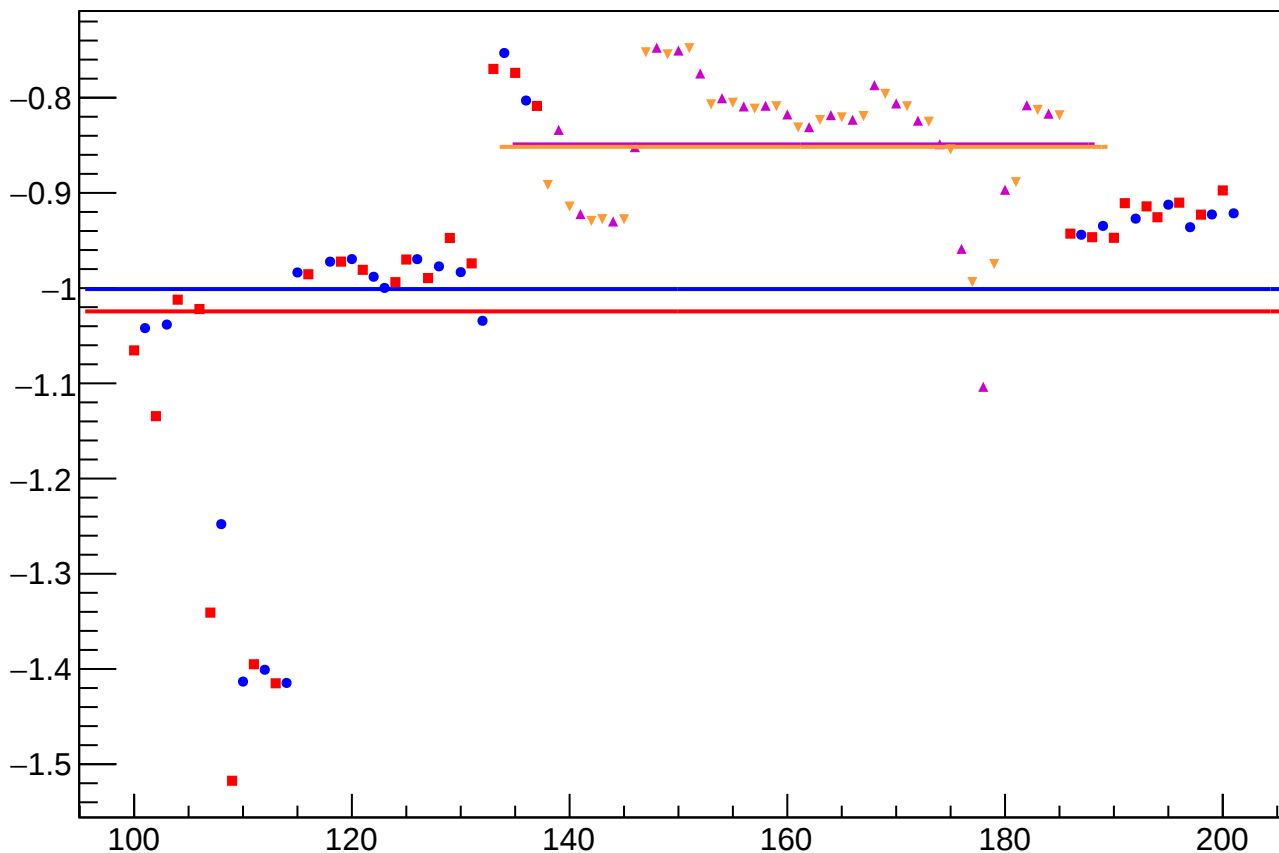
Right: 0.013+/-0.000 χ^2/NDF : 3451849.9/51

In: 0.012+/-0.000 χ^2/NDF : 2163497.2/46

Out: 0.012+/-0.000 χ^2/NDF : 2850943.2/52

All: 0.012+/-0.000 χ^2/NDF : 5014440.4/99

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.001 ± 0.000 χ^2/NDF : 399438367.9/23

Left Out: -0.852 ± 0.000 χ^2/NDF : 189276591.7/24

Right Out: -1.024 ± 0.000 χ^2/NDF : 550920508.7/27

Left In: -0.849 ± 0.000 χ^2/NDF : 256438306.8/22

Left: -0.850 ± 0.000 χ^2/NDF : 445849768.4/47

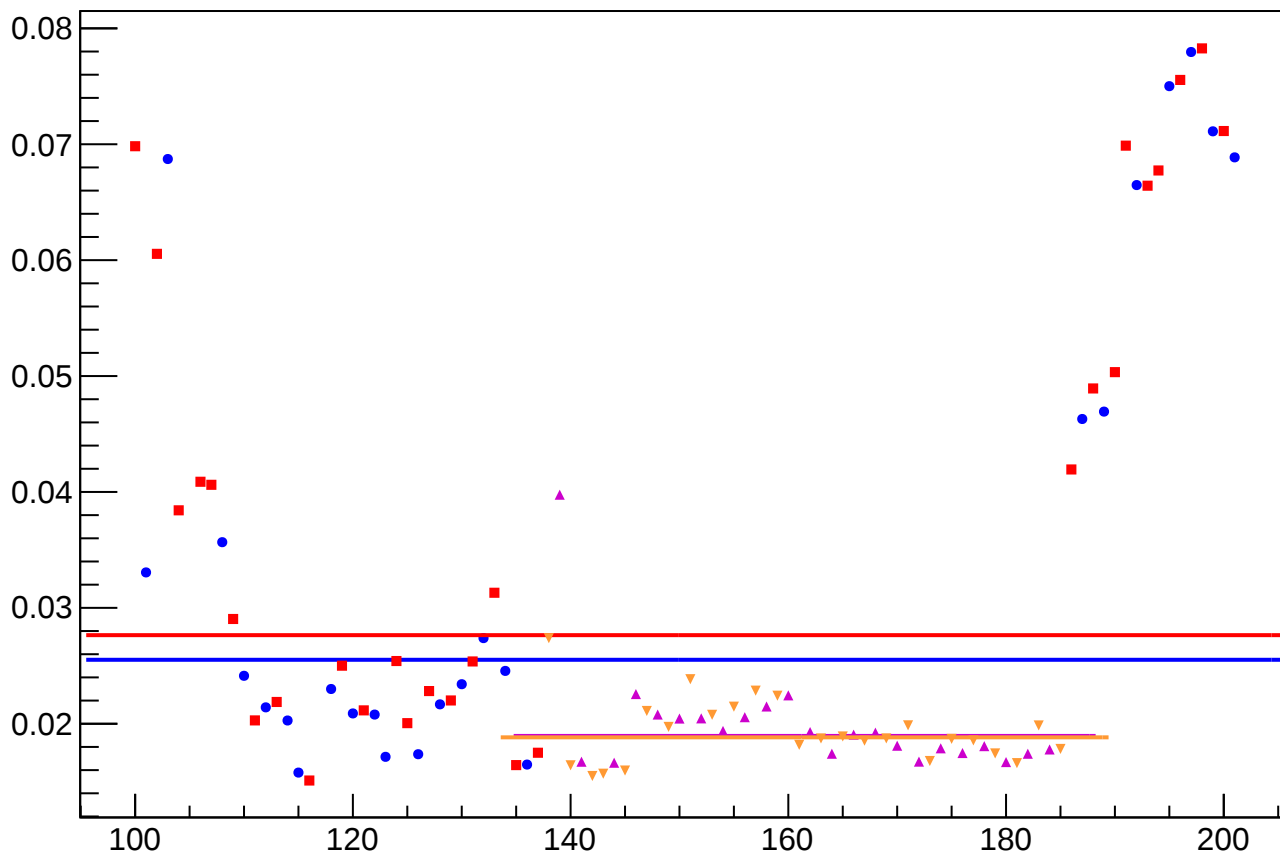
Right: -1.013 ± 0.000 χ^2/NDF : 953582398.4/51

In: -0.884 ± 0.000 χ^2/NDF : 864723151.3/46

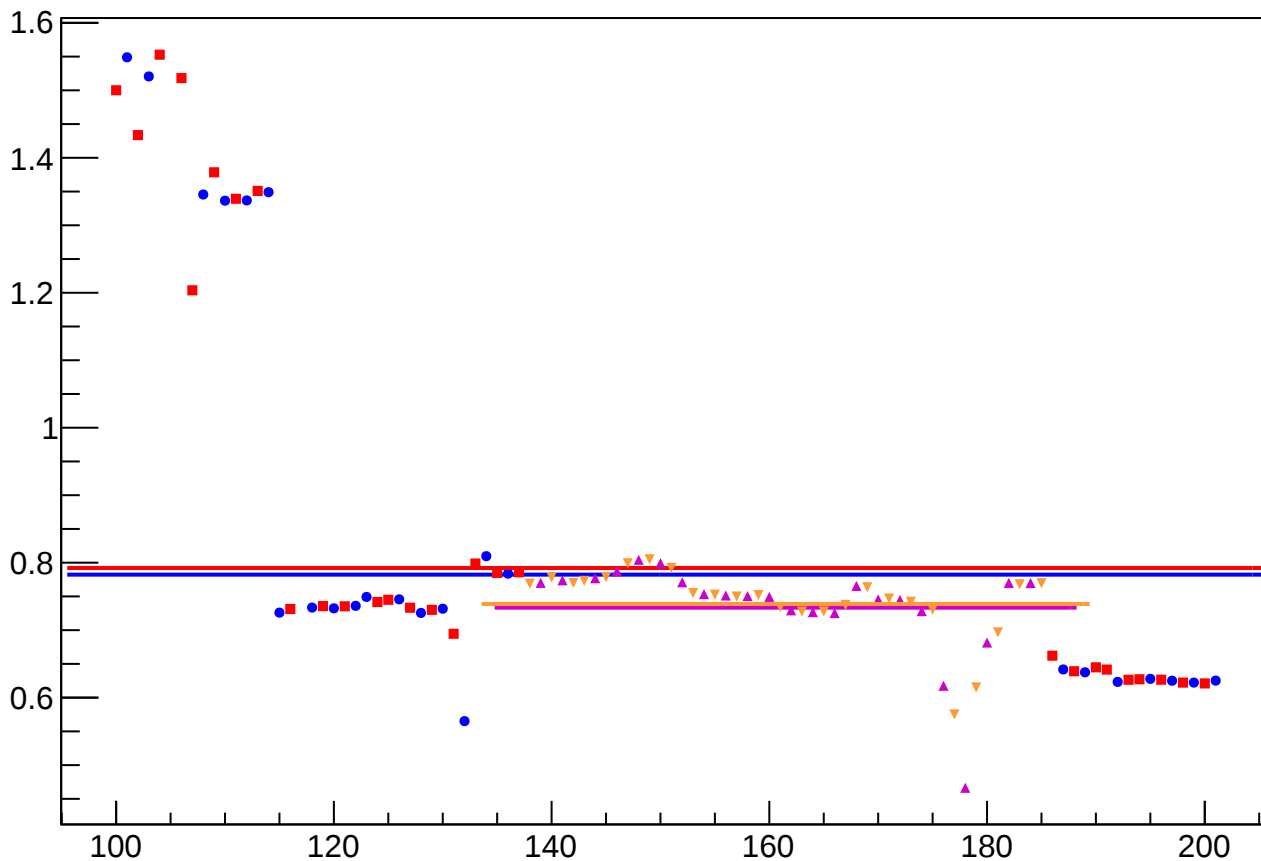
Out: -0.889 ± 0.000 χ^2/NDF : 1012922100.4/52

All: -0.887 ± 0.000 χ^2/NDF : 1878323129.8/99

yield_bpm4acX_rms vs Slug, Sign Corrected



yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.782 $\pm$ 0.000 χ^2 /NDF: 3234838451.5/23

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333086309.0/24

Right Out: 0.792 $\pm$ 0.000 χ^2 /NDF: 3554401602.6/27

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

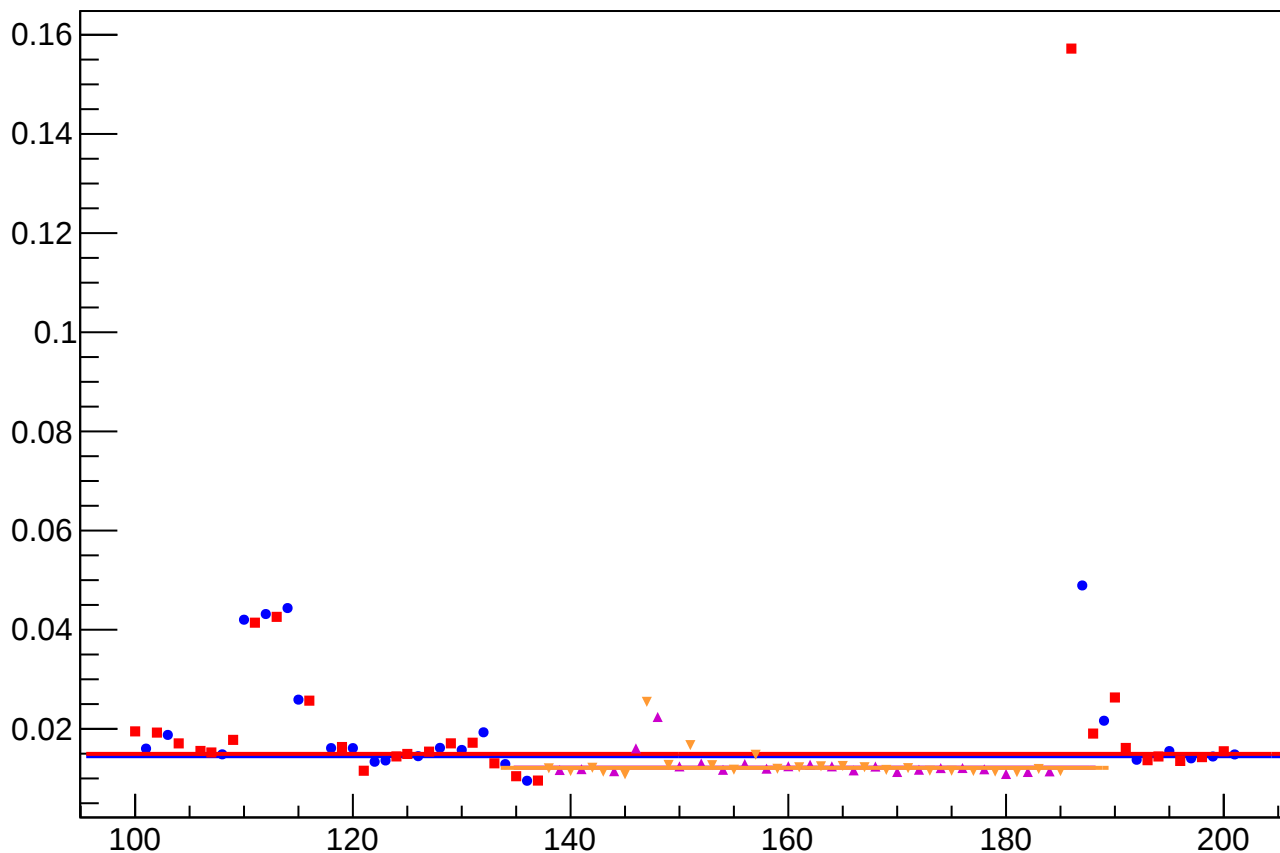
Right: 0.787 $\pm$ 0.000 χ^2 /NDF: 6791595174.3/51

In: 0.748 $\pm$ 0.000 χ^2 /NDF:3885026625.8/46

Out: 0.754 $\pm$ 0.000 χ^2 /NDF:3987574984.4/52

All: 0.751 $\pm$ 0.000 χ^2 /NDF: 7876337949.0/99

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1641911.0/23

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2075706.5/27

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

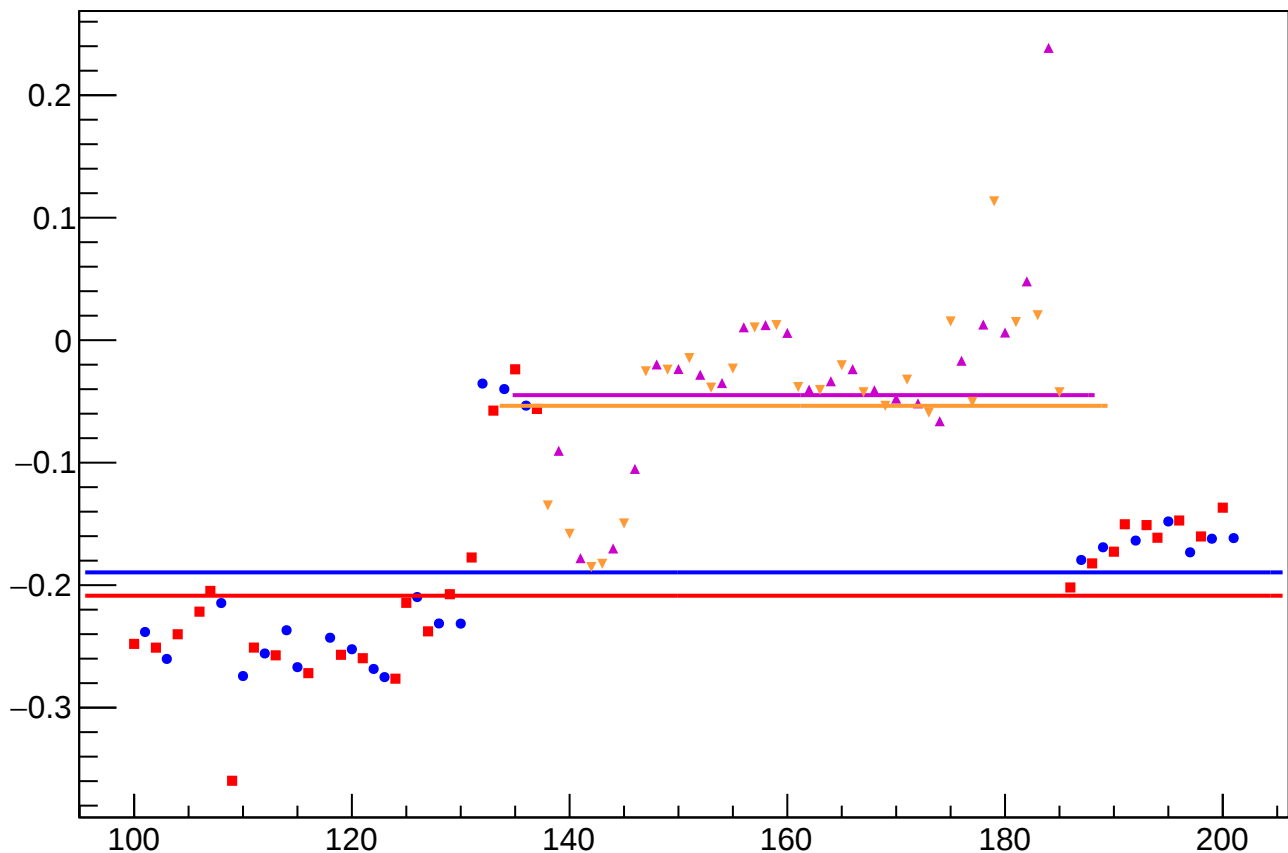
Right: 0.015+/-0.000 χ^2/NDF : 3728372.6/51

In: 0.013+/-0.000 χ^2/NDF : 2475402.1/46

Out: 0.013+/-0.000 χ^2/NDF : 3272494.2/52

All: 0.013+/-0.000 χ^2/NDF : 5749614.6/99

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190+/-0.000 χ^2/NDF : 106736207.6/23

Left Out: -0.054+/-0.000 χ^2/NDF : 167879648.0/24

Right Out: -0.209+/-0.000 χ^2/NDF : 112959990.3/27

Left In: -0.045+/-0.000 χ^2/NDF : 127324000.1/22

Left: -0.049+/-0.000 χ^2/NDF : 296677486.5/47

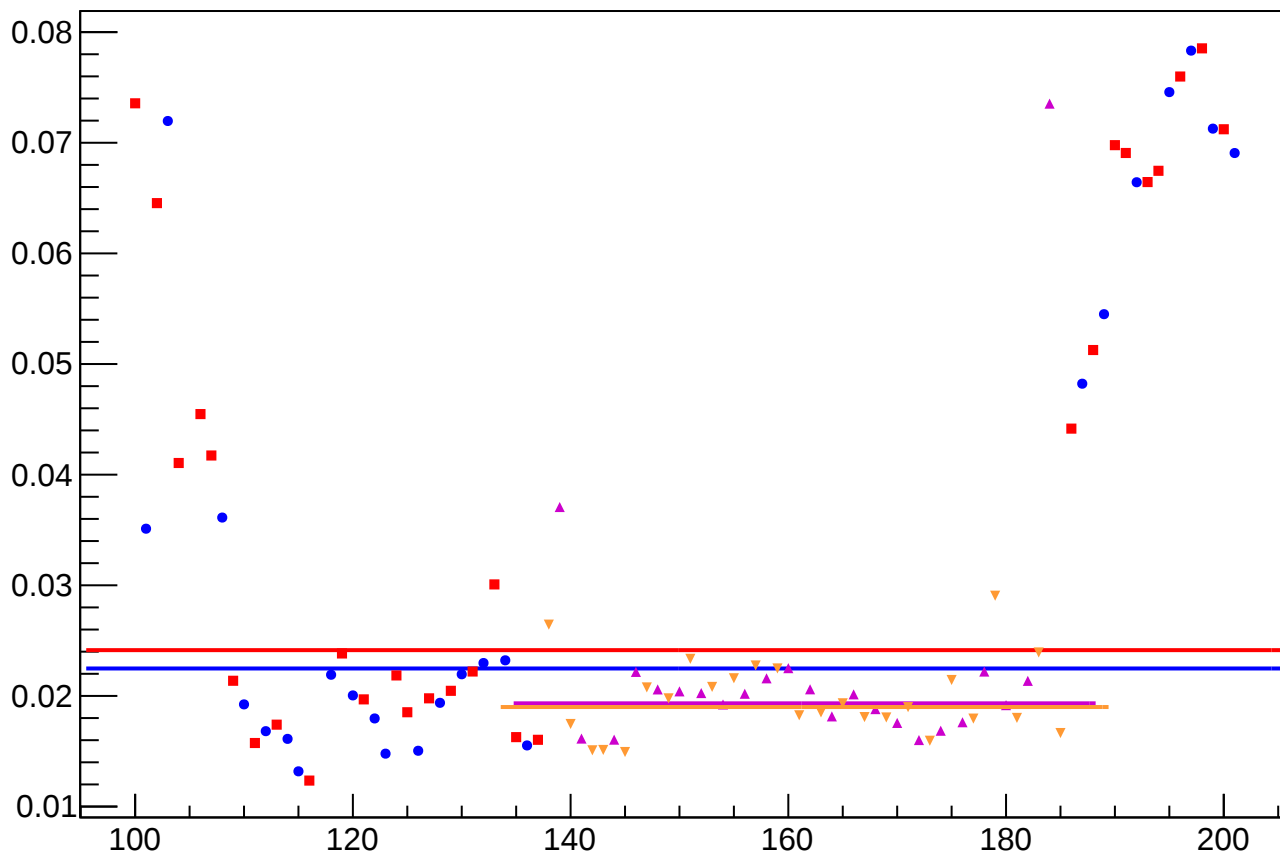
Right: -0.199+/-0.000 χ^2/NDF : 222309117.0/51

In: -0.085+/-0.000 χ^2/NDF : 452135772.3/46

Out: -0.094+/-0.000 χ^2/NDF : 535744837.6/52

All: -0.090+/-0.000 χ^2/NDF : 989960342.3/99

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.022 ± 0.000 $\chi^2/\text{NDF}: 5643296.3/23$

Left Out: 0.019 ± 0.000 $\chi^2/\text{NDF}: 699267.5/24$

Right Out: 0.024 ± 0.000 $\chi^2/\text{NDF}: 6484078.4/27$

Left In: 0.019 ± 0.000 $\chi^2/\text{NDF}: 892810.7/22$

Left: 0.019 ± 0.000 $\chi^2/\text{NDF}: 1596405.3/47$

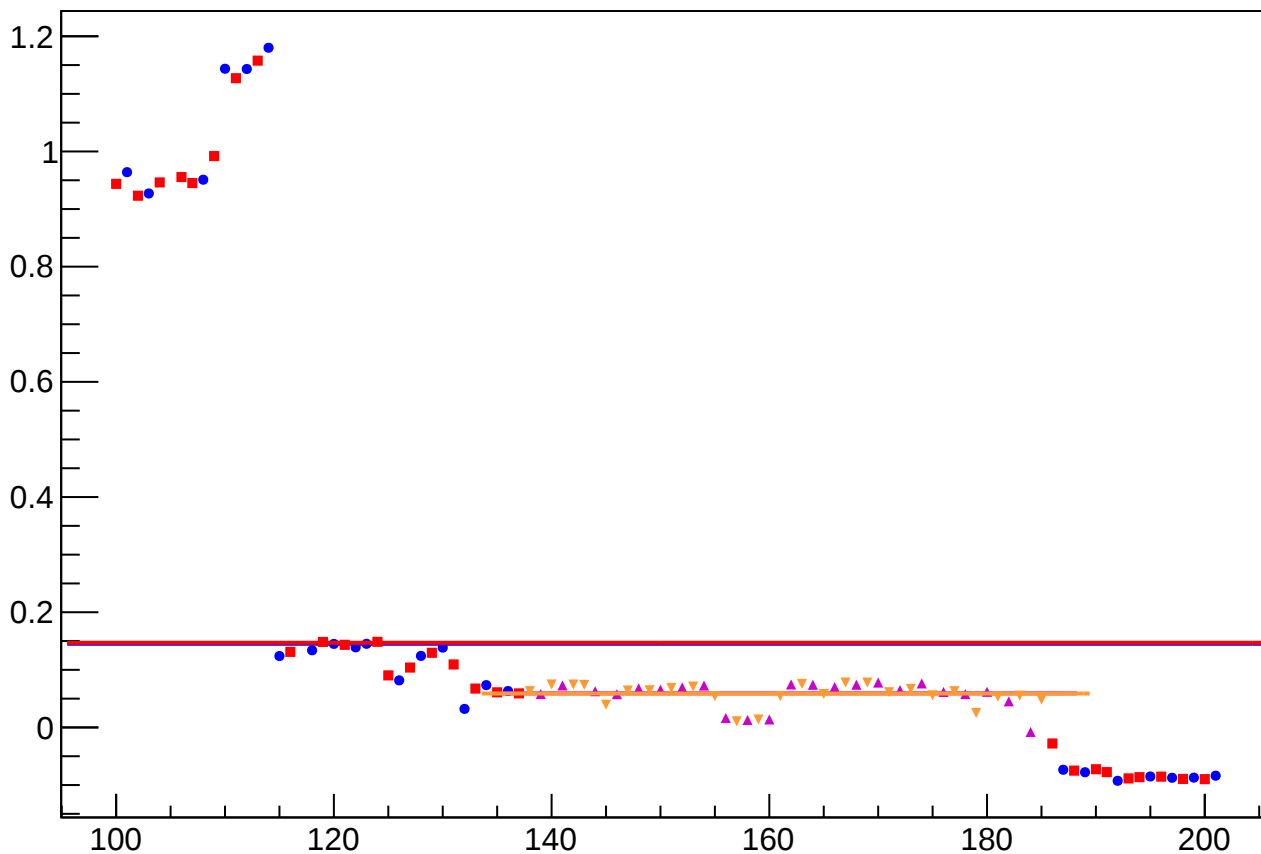
Right: 0.023 ± 0.000 $\chi^2/\text{NDF}: 12166948.8/51$

In: 0.020 ± 0.000 $\chi^2/\text{NDF}: 6742875.1/46$

Out: 0.020 ± 0.000 $\chi^2/\text{NDF}: 7744072.9/52$

All: 0.020 ± 0.000 $\chi^2/\text{NDF}: 14487857.4/99$

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.145+/-0.000 χ^2/NDF : 7476479578.1/23

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.147+/-0.000 χ^2/NDF : 8502412858.4/27

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

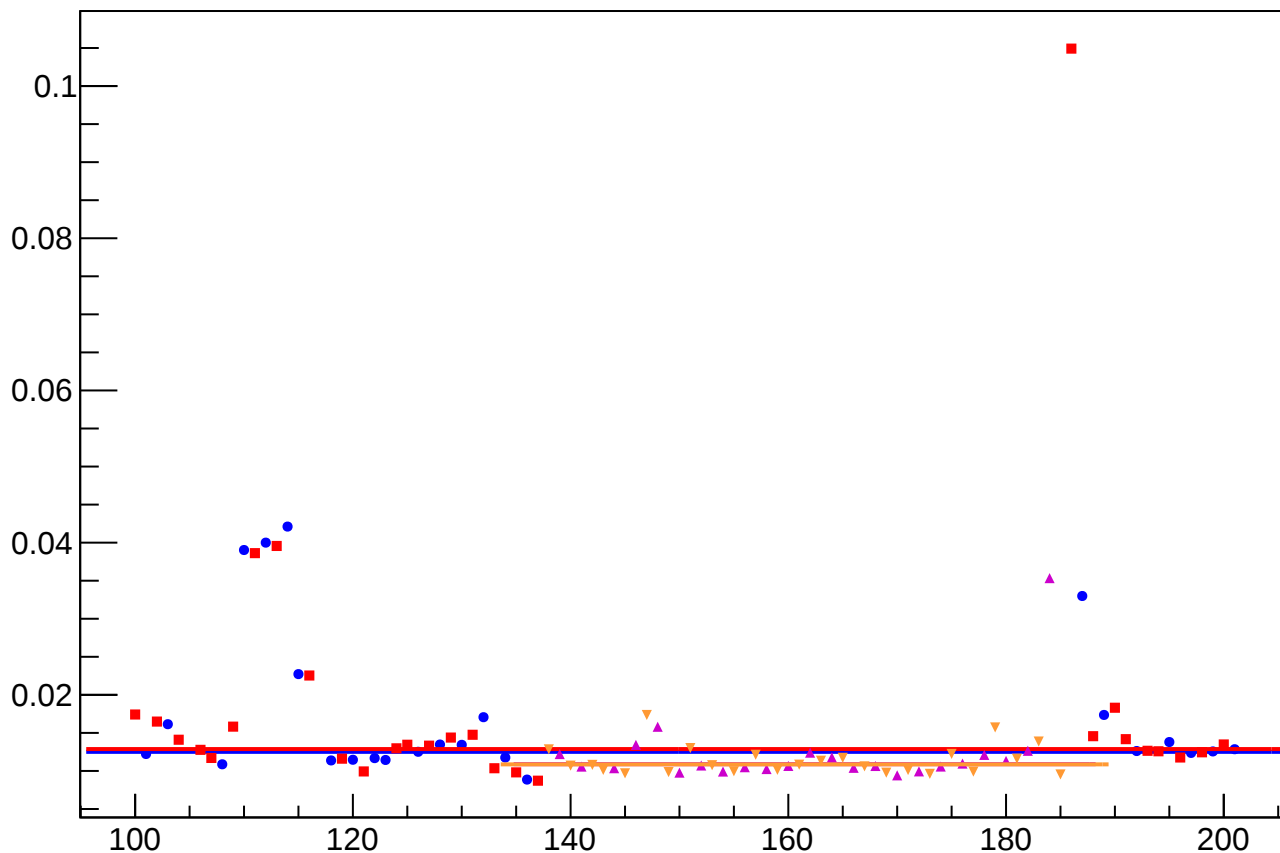
Right: 0.146+/-0.000 χ^2/NDF : 15978984613.9/51

In: 0.087+/-0.000 χ^2/NDF : 7858461338.8/46

Out: 0.087+/-0.000 χ^2/NDF : 8905915094.8/52

All: 0.087+/-0.000 χ^2/NDF : 16764389668.4/99

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1477123.9/23

Left Out: 0.011+/-0.000 χ^2/NDF :605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1891135.1/27

Left In: 0.011+/-0.000 χ^2/NDF :529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

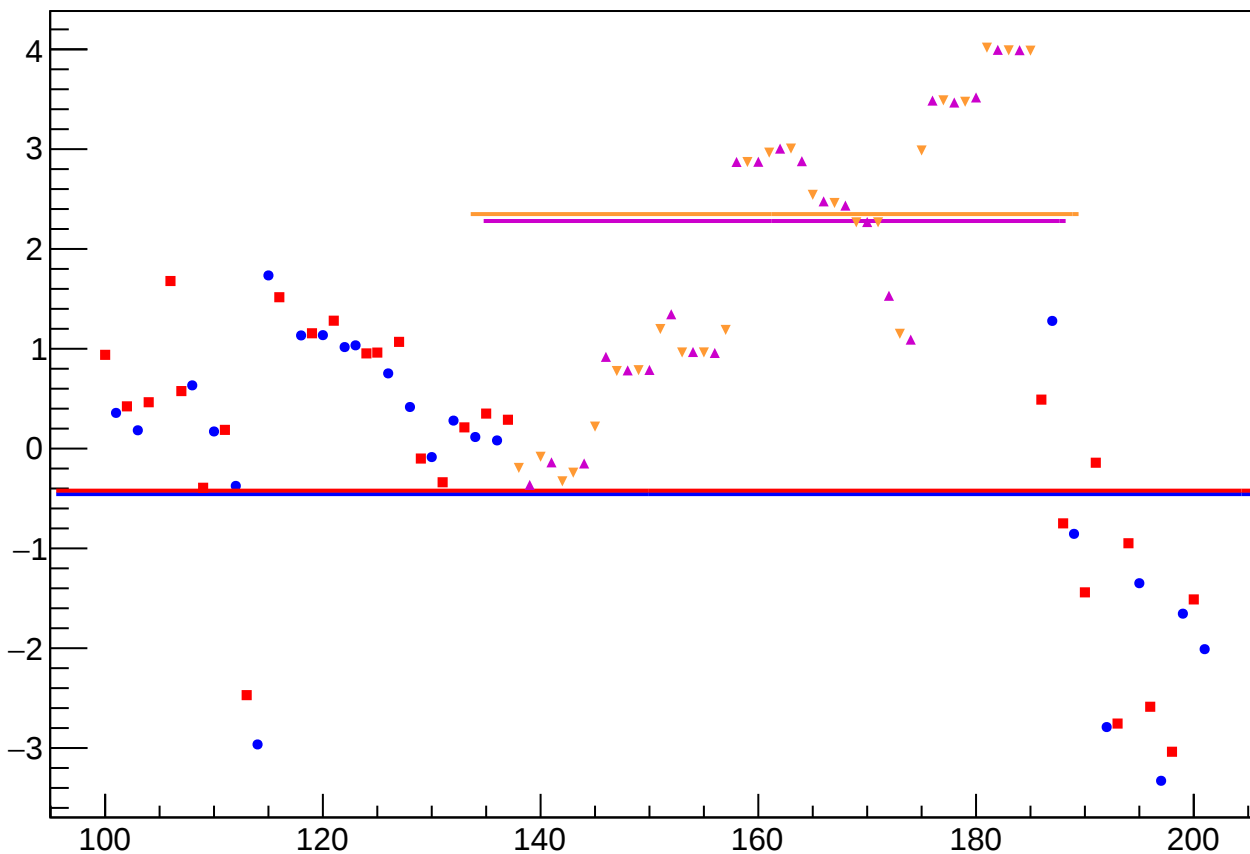
Right: 0.013+/-0.000 χ^2/NDF : 3377037.0/51

In: 0.011+/-0.000 χ^2/NDF :2235096.8/46

Out: 0.012+/-0.000 χ^2/NDF :2868194.6/52

All: 0.011+/-0.000 χ^2/NDF : 5105280.6/99

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.456+/-0.000 χ^2/NDF : 4820759930.3/23

Left Out: 2.349+/-0.000 χ^2/NDF : 63600066268.3/24

Right Out: -0.421+/-0.000 χ^2/NDF : 5554030692.3/27

Left In: 2.280+/-0.000 χ^2/NDF : 61444254541.3/22

Left: 2.314+/-0.000 χ^2/NDF : 125168787170.9/47

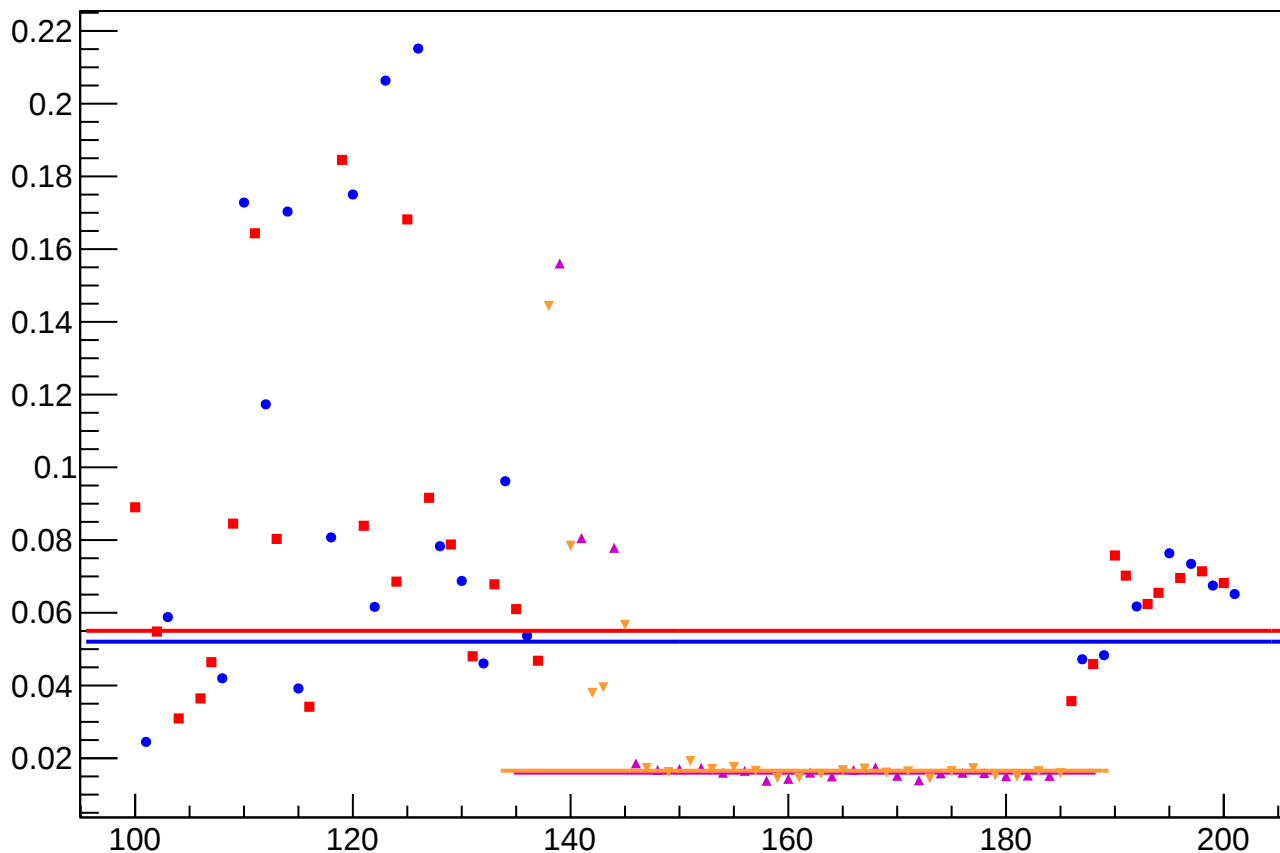
Right: -0.438+/-0.000 χ^2/NDF : 10376573167.4/51

In: 2.140+/-0.000 χ^2/NDF : 86297257873.2/46

Out: 2.192+/-0.000 χ^2/NDF : 91518492666.7/52

All: 2.165+/-0.000 χ^2/NDF : 177888836587.0

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 3431461.1/23

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2794764.2/27

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

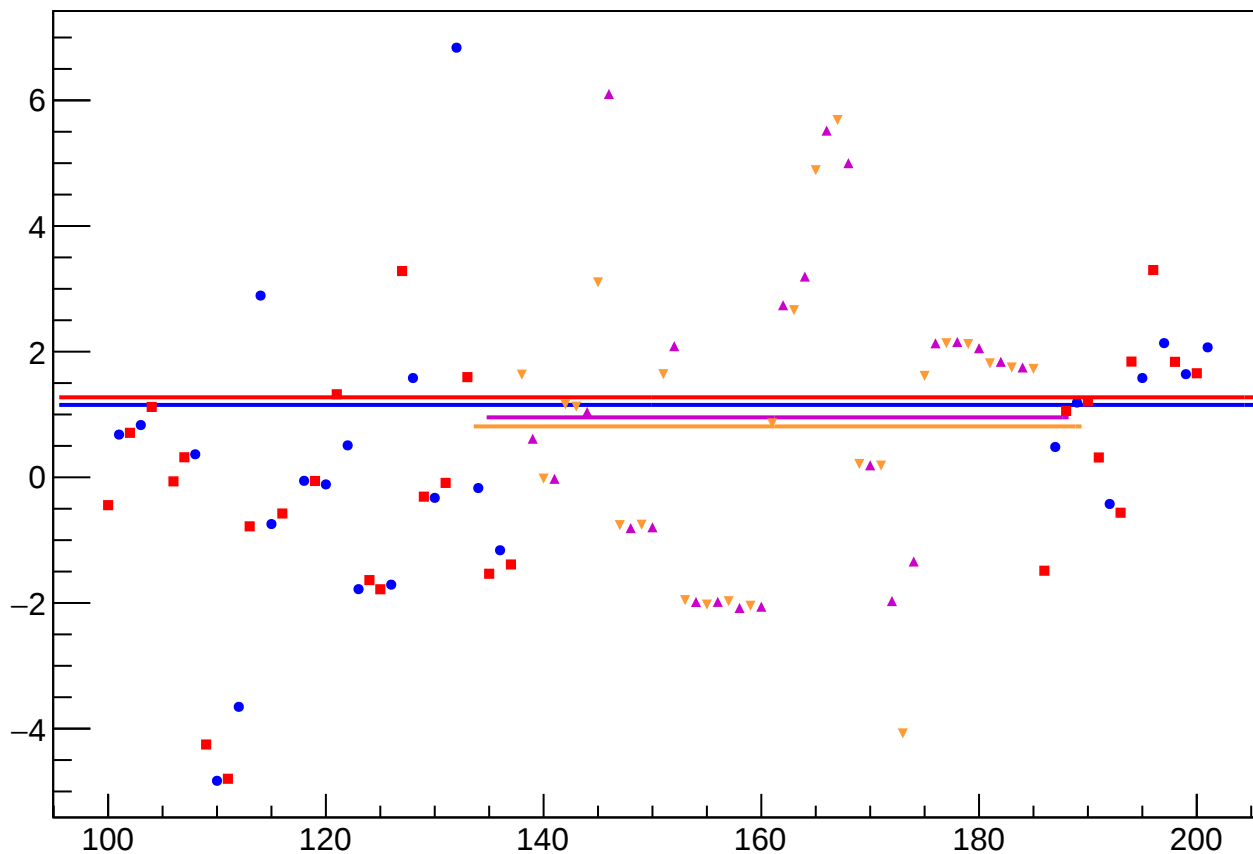
Right: 0.054+/-0.000 χ^2/NDF : 6252544.6/51

In: 0.018+/-0.000 χ^2/NDF : 12841507.3/46

Out: 0.019+/-0.000 χ^2/NDF : 14040776.1/52

All: 0.018+/-0.000 χ^2/NDF : 26925650.9/99

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.153+/-0.000

χ^2/NDF : 21137056650.5/23

Left: 0.883+/-0.000 χ^2/NDF : 1083260277372.9/47

Right: 1.216+/-0.000 χ^2/NDF : 45098564641.6/51

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

In: 0.983+/-0.000 χ^2/NDF : 596413249088.6/46

Right Out: 1.273+/-0.000

χ^2/NDF : 23852033400.0/27

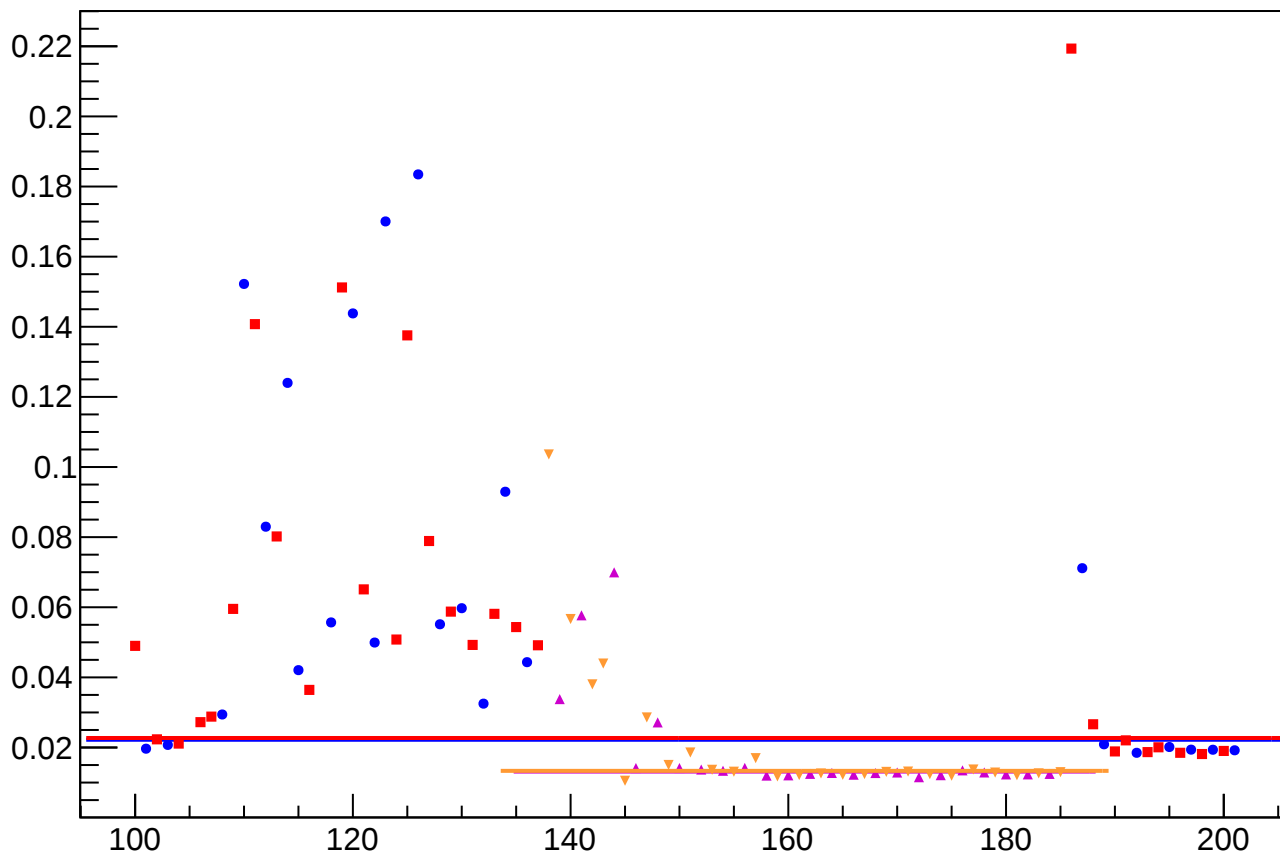
Out: 0.882+/-0.000 χ^2/NDF : 534273570143.2/52

Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

All: 0.932+/-0.000 χ^2/NDF : 1131192508795.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 3671349.0/23

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.023+/-0.000 χ^2/NDF : 4758452.4/27

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

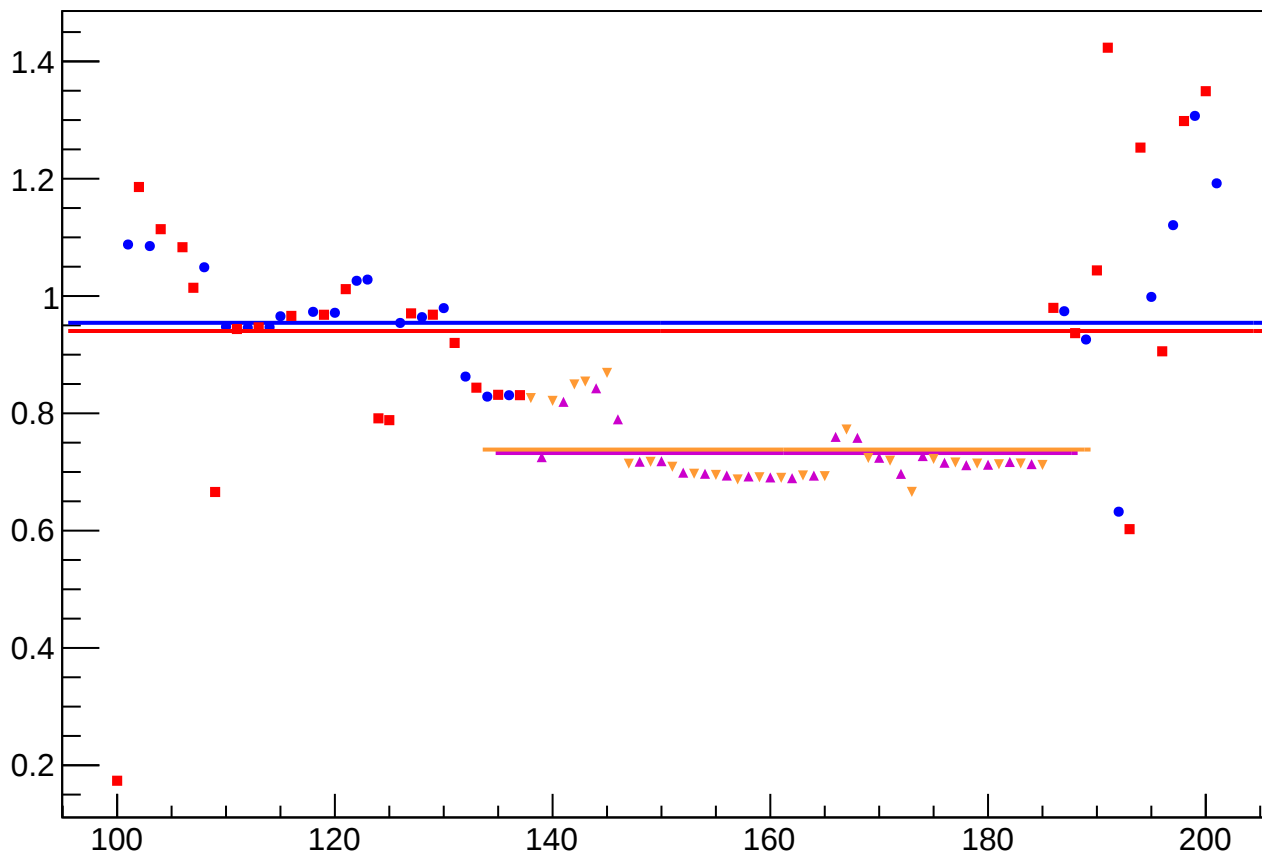
Right: 0.022+/-0.000 χ^2/NDF : 8433615.7/51

In: 0.014+/-0.000 χ^2/NDF :7665095.9/46

Out: 0.015+/-0.000 χ^2/NDF :9913805.8/52

All: 0.015+/-0.000 χ^2/NDF : 17591965.3/99

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.954 ± 0.000 $\chi^2/\text{NDF}: 452809741.9/23$

Left Out: 0.738 ± 0.000 $\chi^2/\text{NDF}: 310610047.7/24$

Right Out: 0.940 ± 0.000 $\chi^2/\text{NDF}: 852605091.3/27$

Left In: 0.732 ± 0.000 $\chi^2/\text{NDF}: 170806298.1/22$

Left: 0.735 ± 0.000 $\chi^2/\text{NDF}: 482865670.9/47$

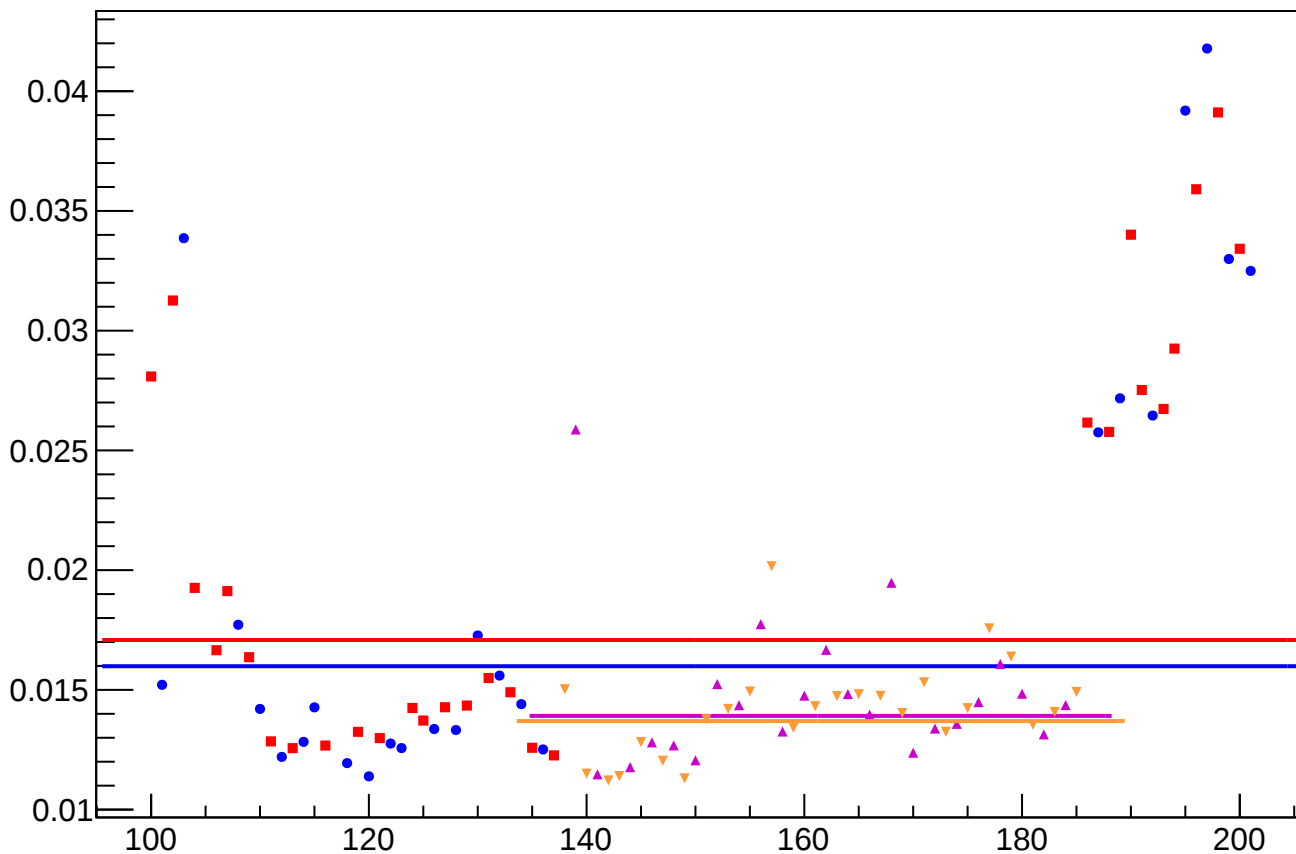
Right: 0.947 ± 0.000 $\chi^2/\text{NDF}: 1308829531.4/51$

In: 0.799 ± 0.000 $\chi^2/\text{NDF}: 1817161615.3/46$

Out: 0.797 ± 0.000 $\chi^2/\text{NDF}: 2188967094.1/52$

All: 0.798 ± 0.000 $\chi^2/\text{NDF}: 4006443455.8/99$

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 3165706.4/23

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.017+/-0.000 χ^2/NDF : 3172228.0/27

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

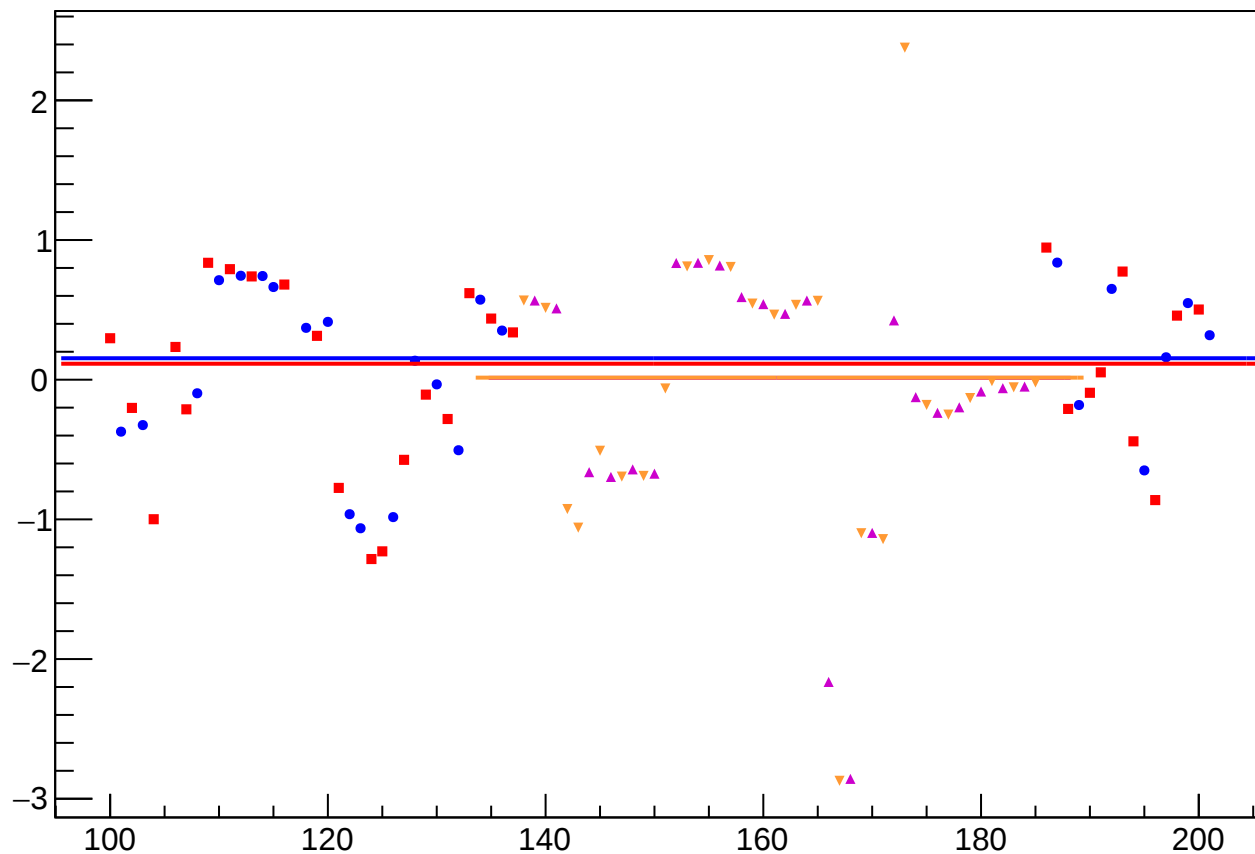
Right: 0.017+/-0.000 χ^2/NDF : 6379918.9/51

In: 0.015+/-0.000 χ^2/NDF : 4168742.9/46

Out: 0.015+/-0.000 χ^2/NDF : 4278237.8/52

All: 0.015+/-0.000 χ^2/NDF : 8449388.1/99

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.154+/-0.000 χ^2/NDF : 13571704454.0/23

Left Out: 0.015+/-0.000 χ^2/NDF : 96087835995.8/24

Right Out: 0.114+/-0.000 χ^2/NDF : 24610536292.4/27

Left In: 0.013+/-0.000 χ^2/NDF : 79445696658.6/22

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

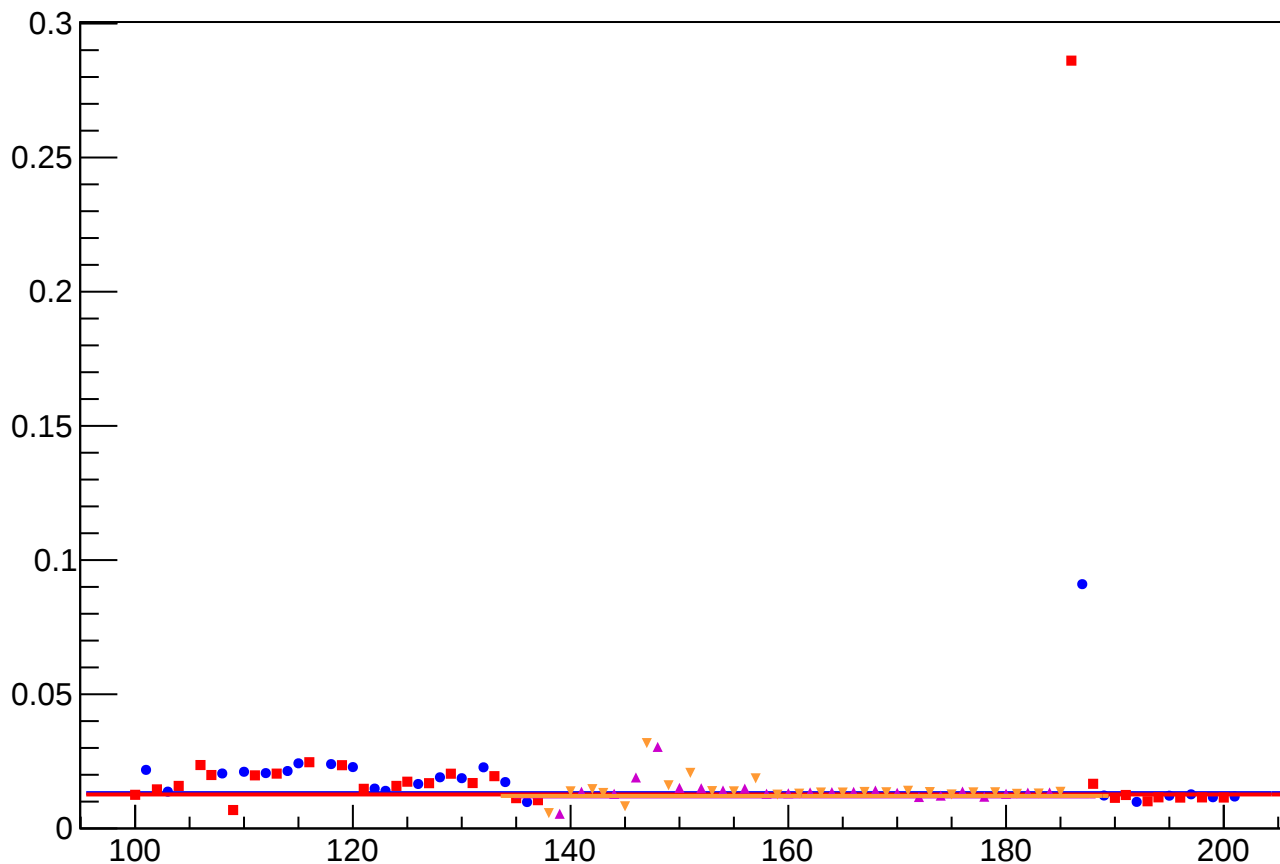
Right: 0.132+/-0.000 χ^2/NDF : 38227991978.4/51

In: 0.061+/-0.000 χ^2/NDF : 93730504731.0/46

Out: 0.052+/-0.000 χ^2/NDF : 121102805459.6/52

All: 0.056+/-0.000 χ^2/NDF : 214839860273.9

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1833257.6/23

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2518648.1/27

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

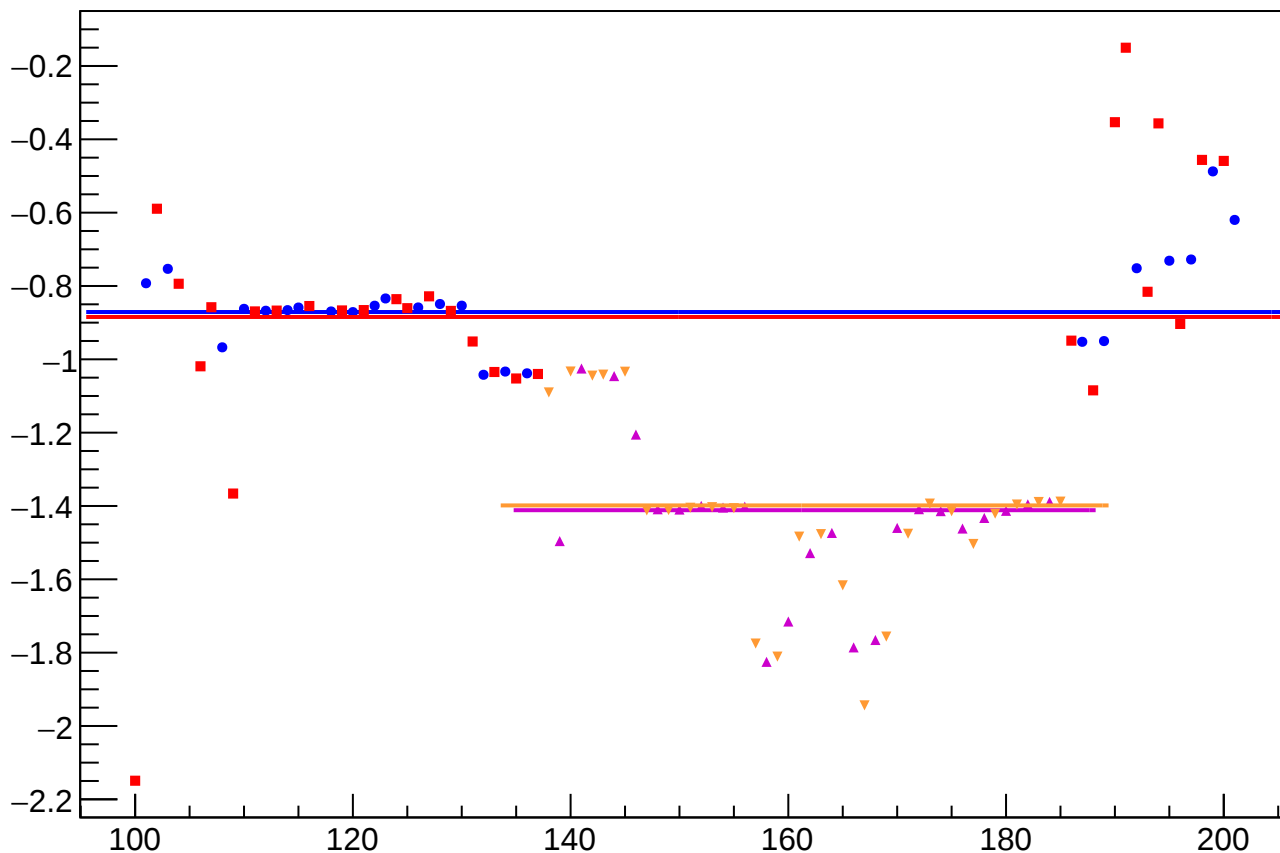
Right: 0.013+/-0.000 χ^2/NDF : 4366749.0/51

In: 0.012+/-0.000 χ^2/NDF :5050481.9/46

Out: 0.012+/-0.000 χ^2/NDF :5651286.8/52

All: 0.012+/-0.000 χ^2/NDF : 10701889.0/99

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.871 ± 0.000 $\chi^2/\text{NDF}: 77522873.9/23$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.885 ± 0.000 $\chi^2/\text{NDF}: 281651903.5/27$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

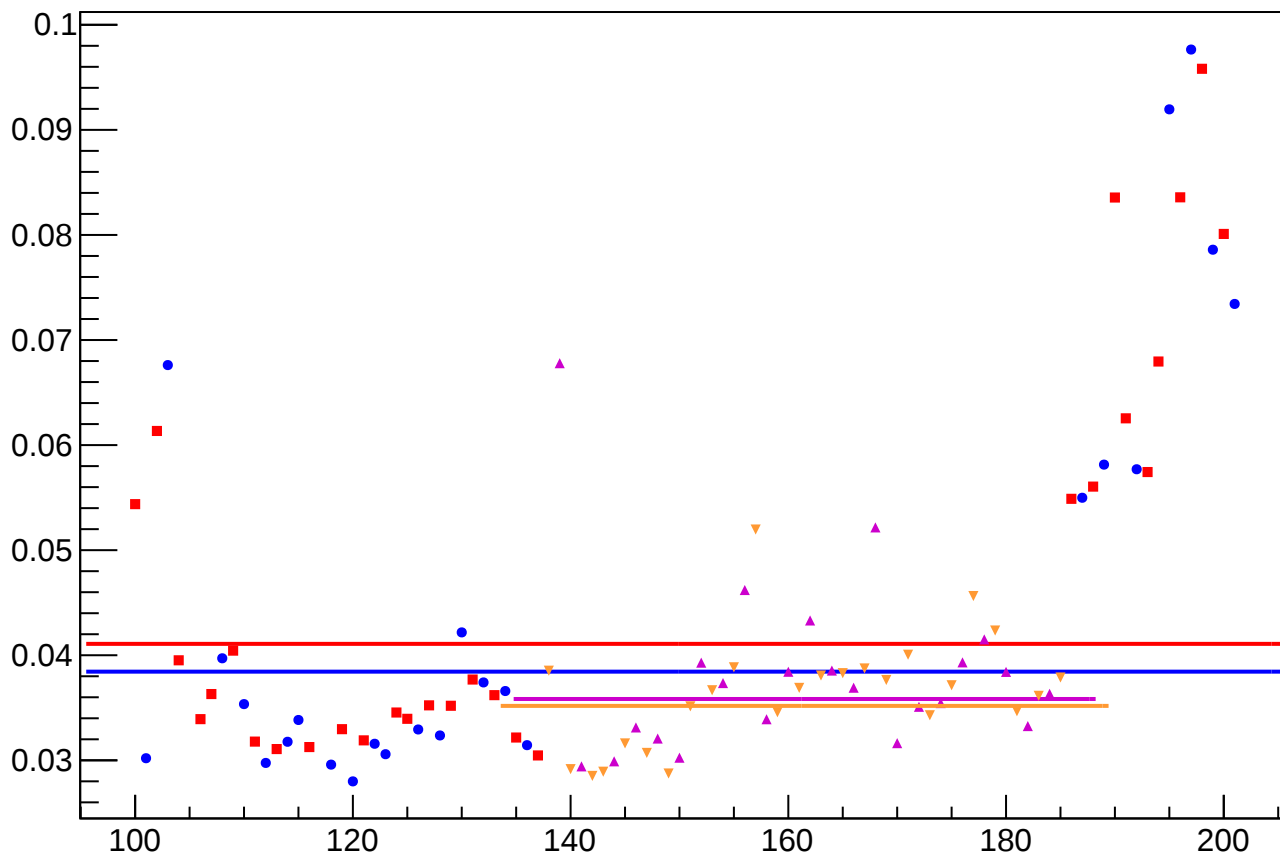
Right: -0.878 ± 0.000 $\chi^2/\text{NDF}: 359738482.9/51$

In: -1.229 ± 0.000 $\chi^2/\text{NDF}: 1773622584.8/46$

Out: -1.232 ± 0.000 $\chi^2/\text{NDF}: 2128757178.1/52$

All: -1.230 ± 0.000 $\chi^2/\text{NDF}: 3902467438.2/9$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.038 $\pm$ 0.000 χ^2 /NDF: 2793342.5/23

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:597886.0/24

Right Out: 0.041 $\pm$ 0.000 χ^2 /NDF: 2676617.6/27

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:890993.5/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1494255.9/47

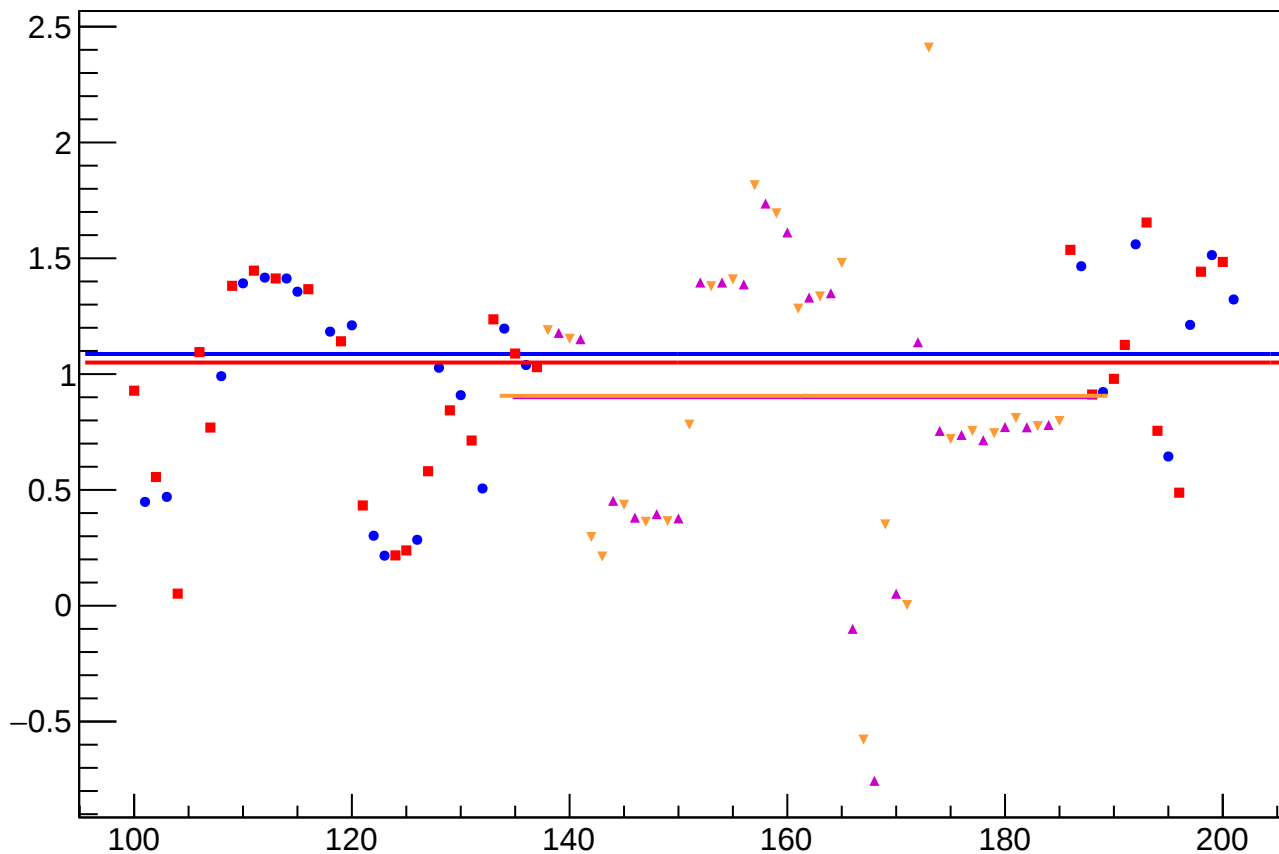
Right: 0.040 $\pm$ 0.000 χ^2 /NDF: 5513145.3/51

In: 0.037 $\pm$ 0.000 χ^2 /NDF:3739178.9/46

Out: 0.037 $\pm$ 0.000 χ^2 /NDF:3568001.1/52

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 7309838.5/99

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.087+/-0.000

χ^2/NDF : 17876340965.3/23

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 1.068+/-0.000 χ^2/NDF : 41850267878.0/51

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 0.967+/-0.000 χ^2/NDF : 87397242800.8/46

Right Out: 1.050+/-0.000

χ^2/NDF : 23891418438.6/27

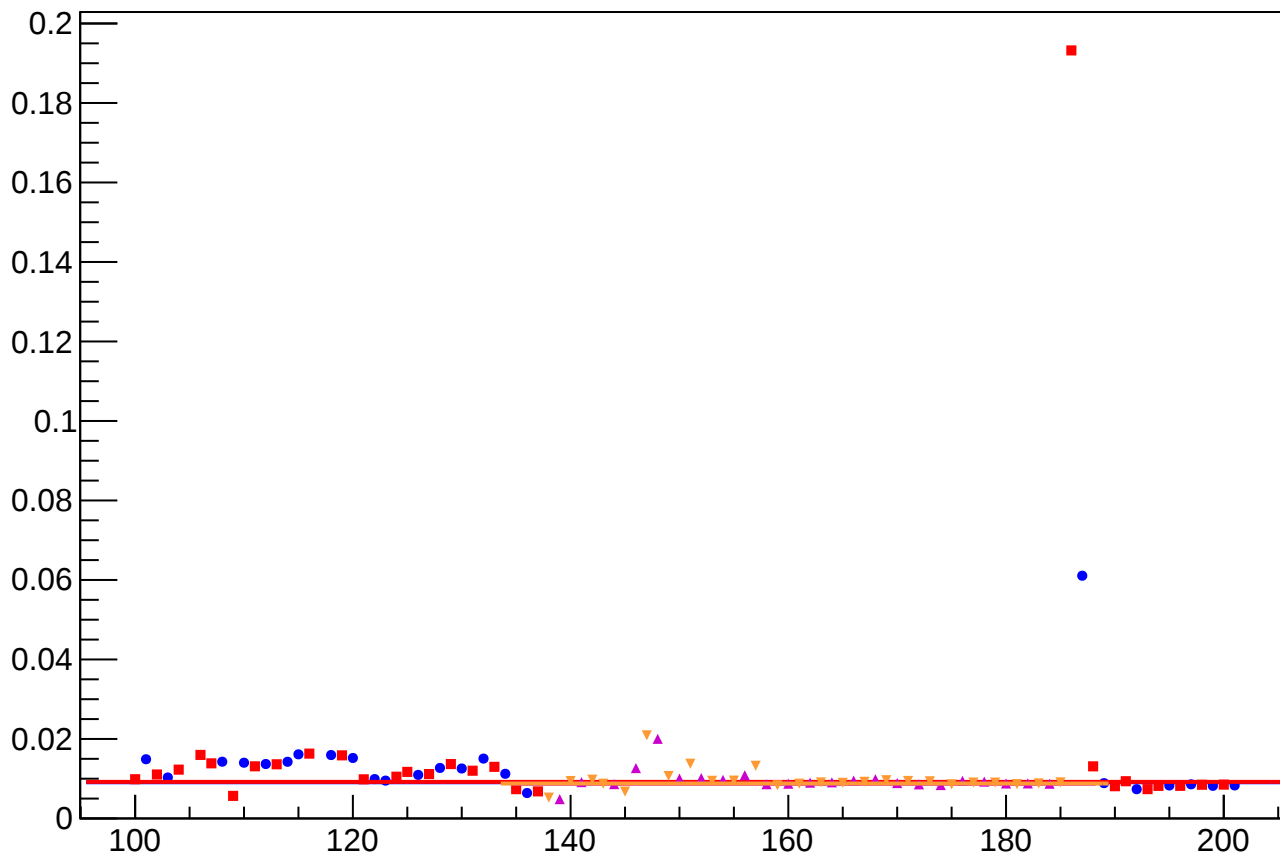
Out: 0.959+/-0.000 χ^2/NDF : 109655505336.0/52

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 0.963+/-0.000 χ^2/NDF : 197064597242.8

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1708083.3/23

Left Out: 0.009+/-0.000 χ^2/NDF :1698526.2/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2182379.2/27

Left In: 0.009+/-0.000 χ^2/NDF :1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

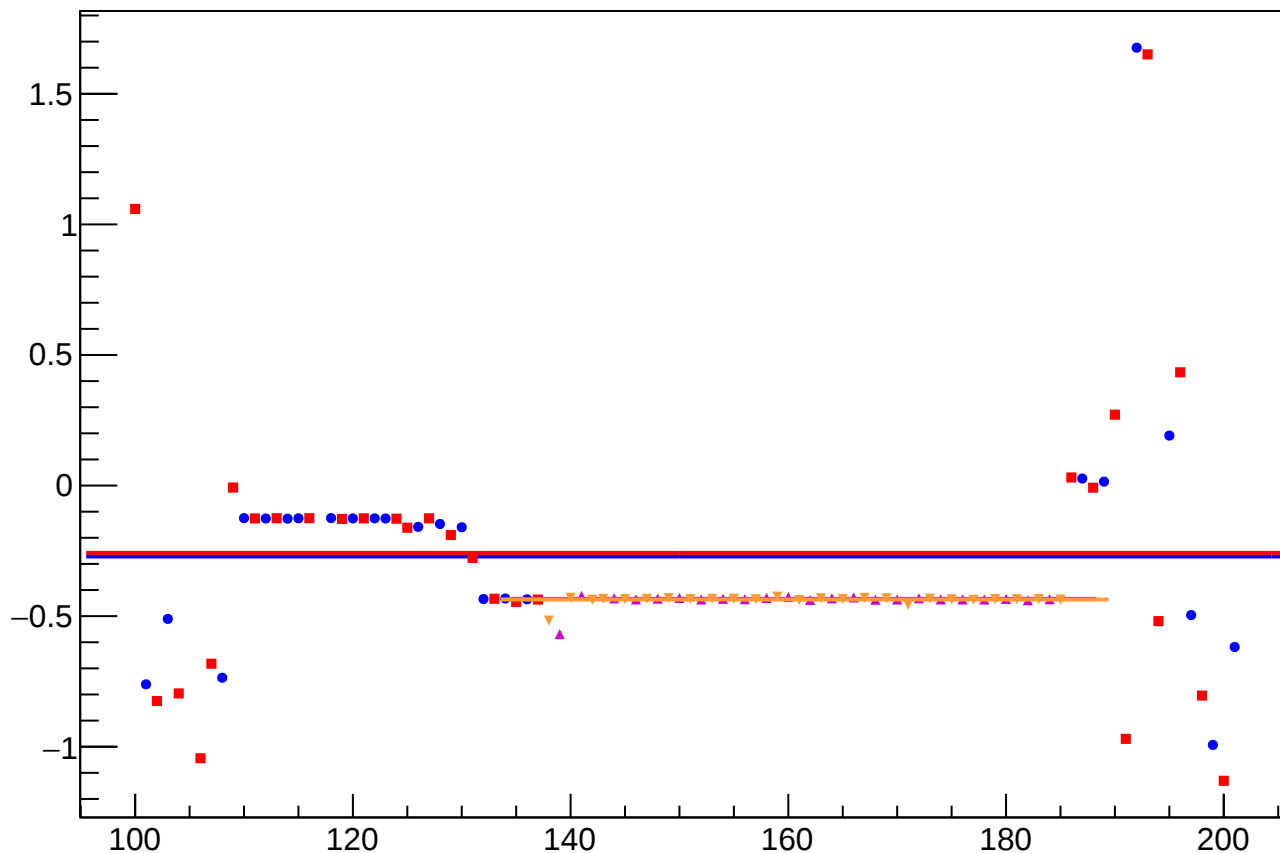
Right: 0.009+/-0.000 χ^2/NDF : 3891519.5/51

In: 0.009+/-0.000 χ^2/NDF :3398791.7/46

Out: 0.009+/-0.000 χ^2/NDF :3908910.4/52

All: 0.009+/-0.000 χ^2/NDF : 7309237.2/99

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.272+/-0.000 χ^2/NDF : 2020784747.1/23

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.258+/-0.000 χ^2/NDF : 2029417764.2/27

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

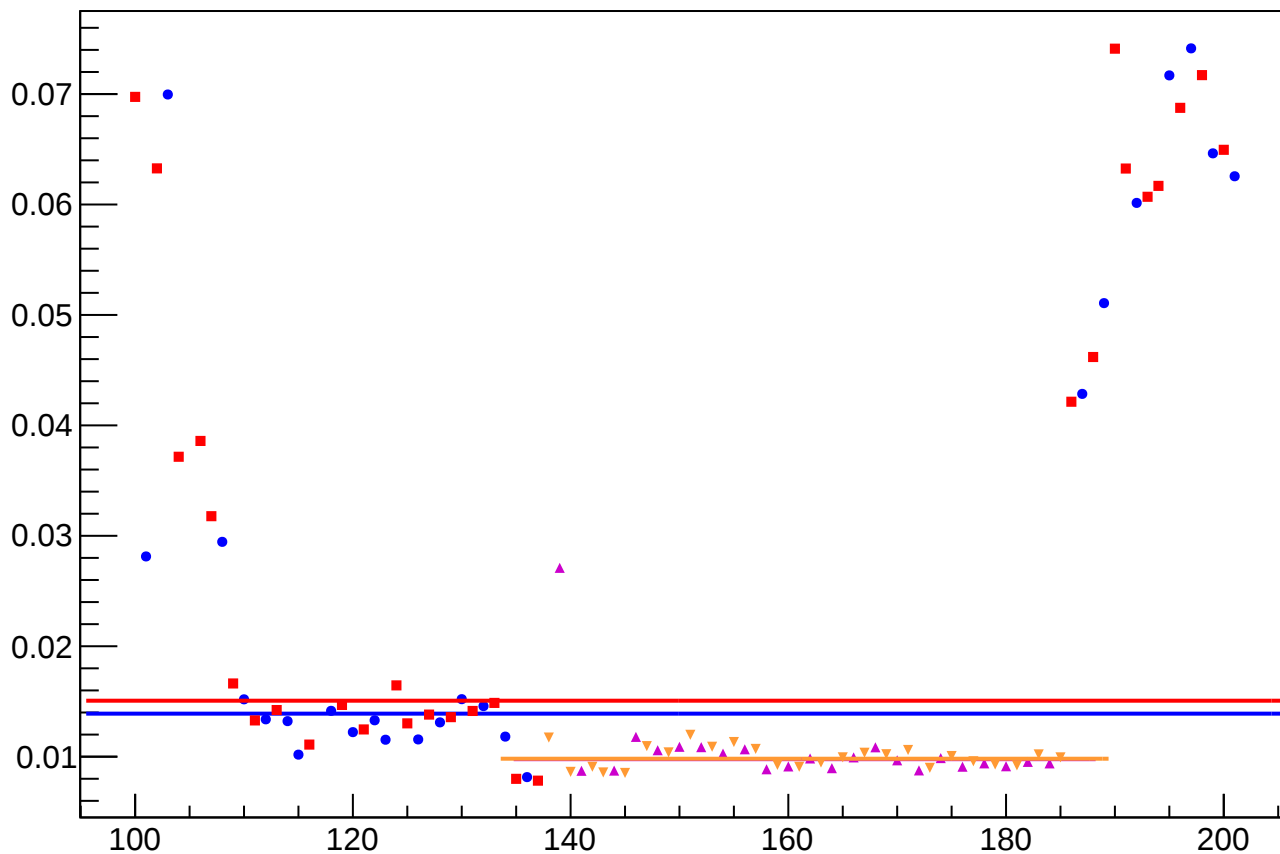
Right: -0.265+/-0.000 χ^2/NDF : 4053280345.2/51

In: -0.405+/-0.000 χ^2/NDF : 2751865597.3/46

Out: -0.407+/-0.000 χ^2/NDF : 2896738320.5/52

All: -0.406+/-0.000 χ^2/NDF : 5648925064.6/9

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 7414498.3/23

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :271172.3/24

Right Out: 0.015 $\pm$ 0.000 χ^2/NDF : 8641483.2/27

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

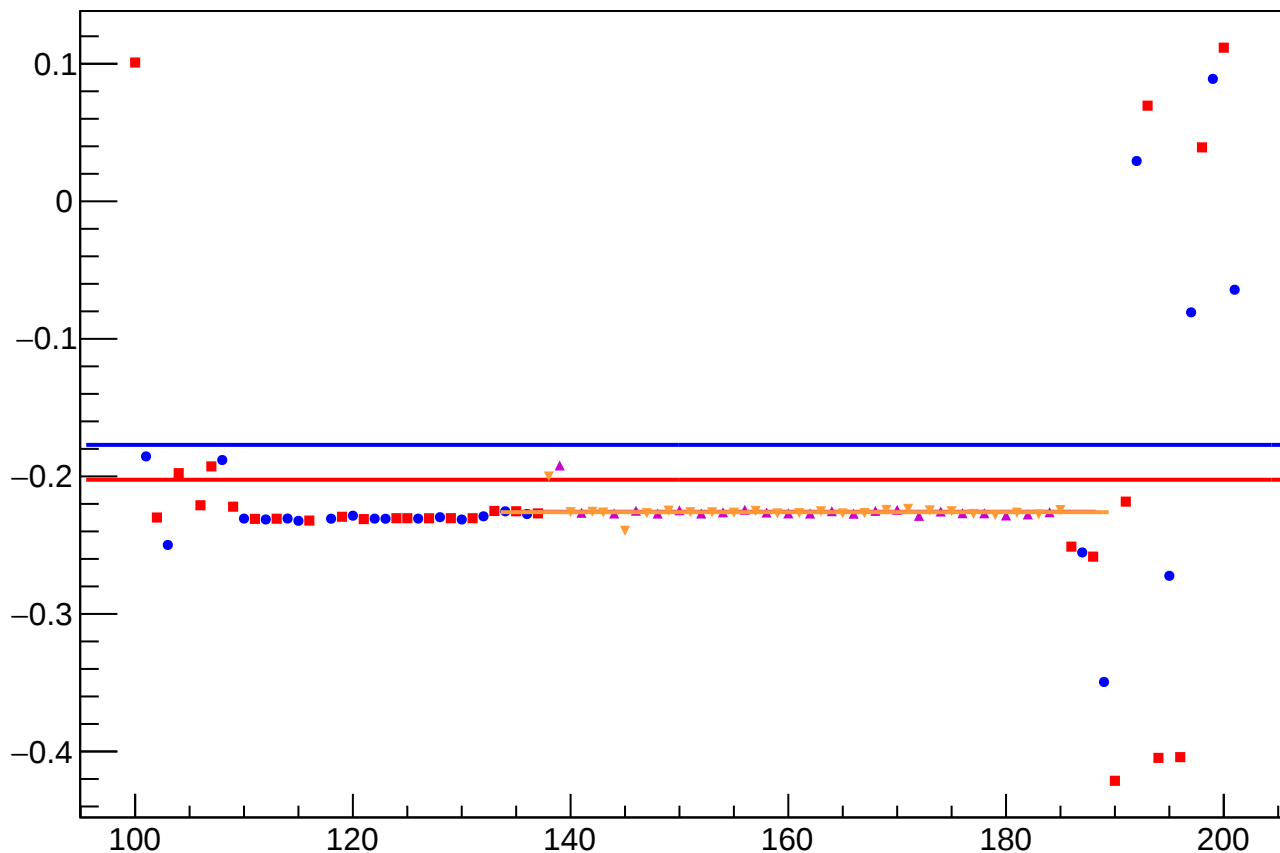
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 16099997.8/51

In: 0.010 $\pm$ 0.000 χ^2/NDF :9116738.9/46

Out: 0.011 $\pm$ 0.000 χ^2/NDF :10364491.5/52

All: 0.011 $\pm$ 0.000 χ^2/NDF : 19486629.2/99

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.177+/-0.000 χ^2/NDF : 4457287872.7/23

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.202+/-0.000 χ^2/NDF : 7570913004.1/27

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

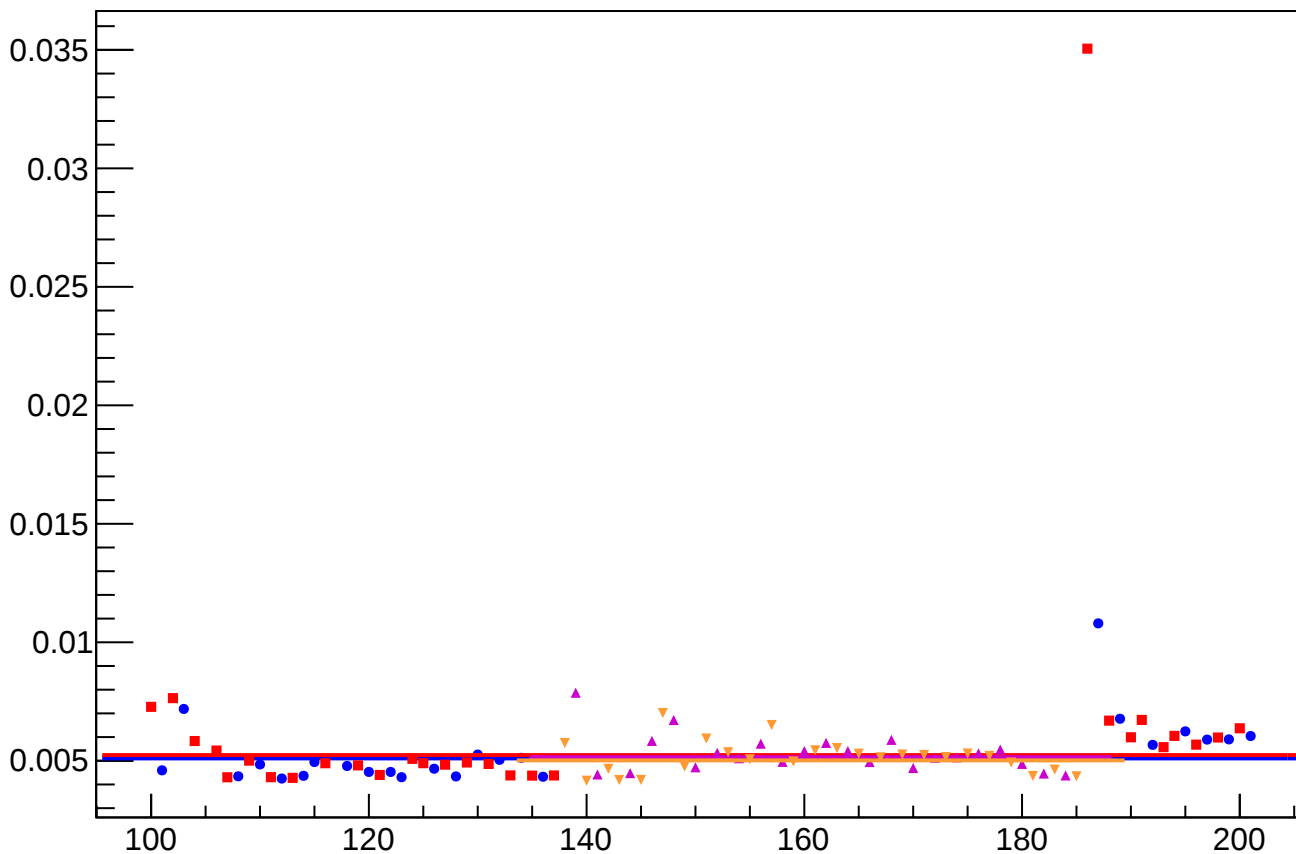
Right: -0.190+/-0.000 χ^2/NDF : 12158914486.5/51

In: -0.207+/-0.000 χ^2/NDF : 5040554633.9/46

Out: -0.217+/-0.000 χ^2/NDF : 7737146627.4/52

All: -0.212+/-0.000 χ^2/NDF : 12833272703.5/102

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 565500.9/23

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1108850.1/27

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

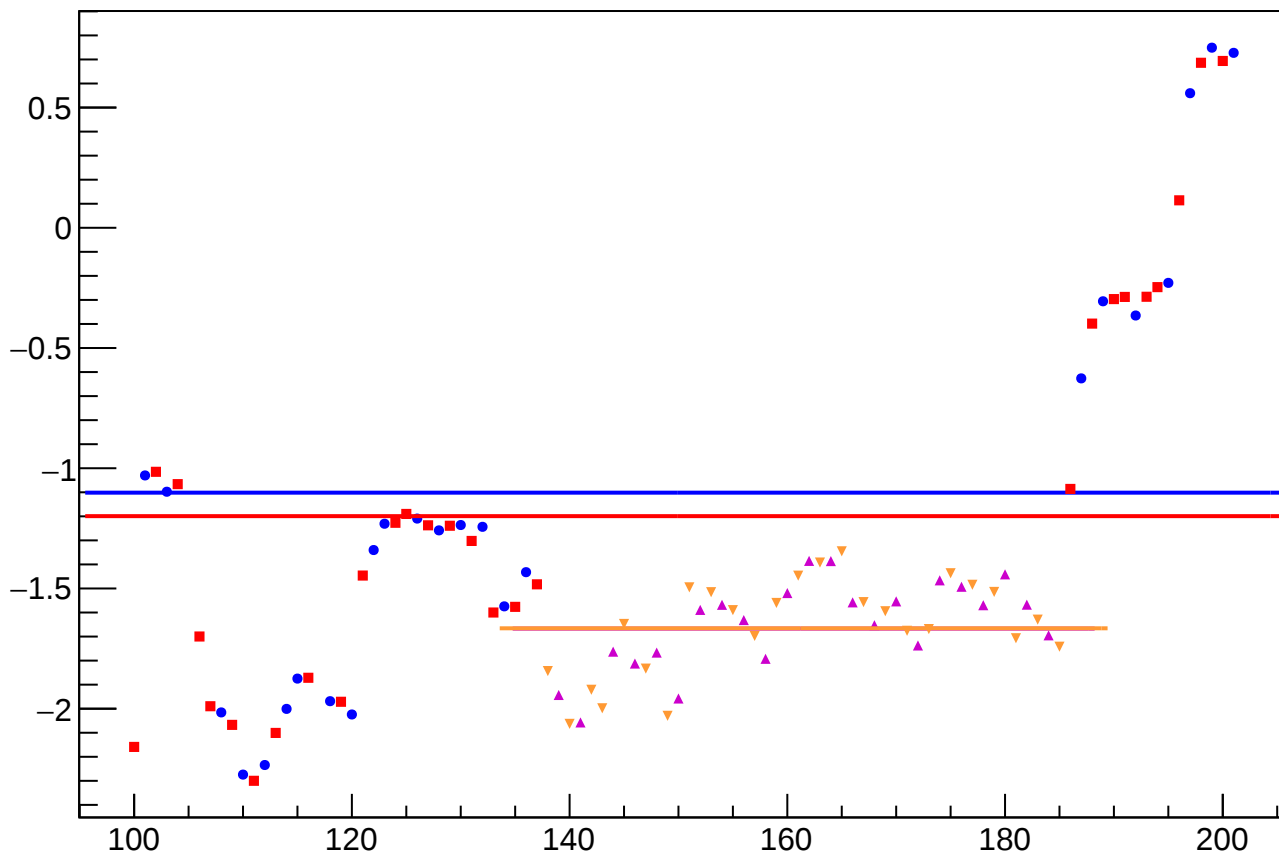
Right: 0.005+/-0.000 χ^2/NDF : 1682259.1/51

In: 0.005+/-0.000 χ^2/NDF : 1070710.0/46

Out: 0.005+/-0.000 χ^2/NDF : 1667559.8/52

All: 0.005+/-0.000 χ^2/NDF : 2739179.4/99

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.102+/-0.000

χ^2/NDF : 124108531773.2/23

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -1.155+/-0.000

χ^2/NDF : 272259803846.9/51

Right Out: -1.199+/-0.000

χ^2/NDF : 147203529003.1/27

In: -1.495+/-0.000

χ^2/NDF : 179003969074.5/46

Out: -1.511+/-0.000

χ^2/NDF : 197505459806.2/52

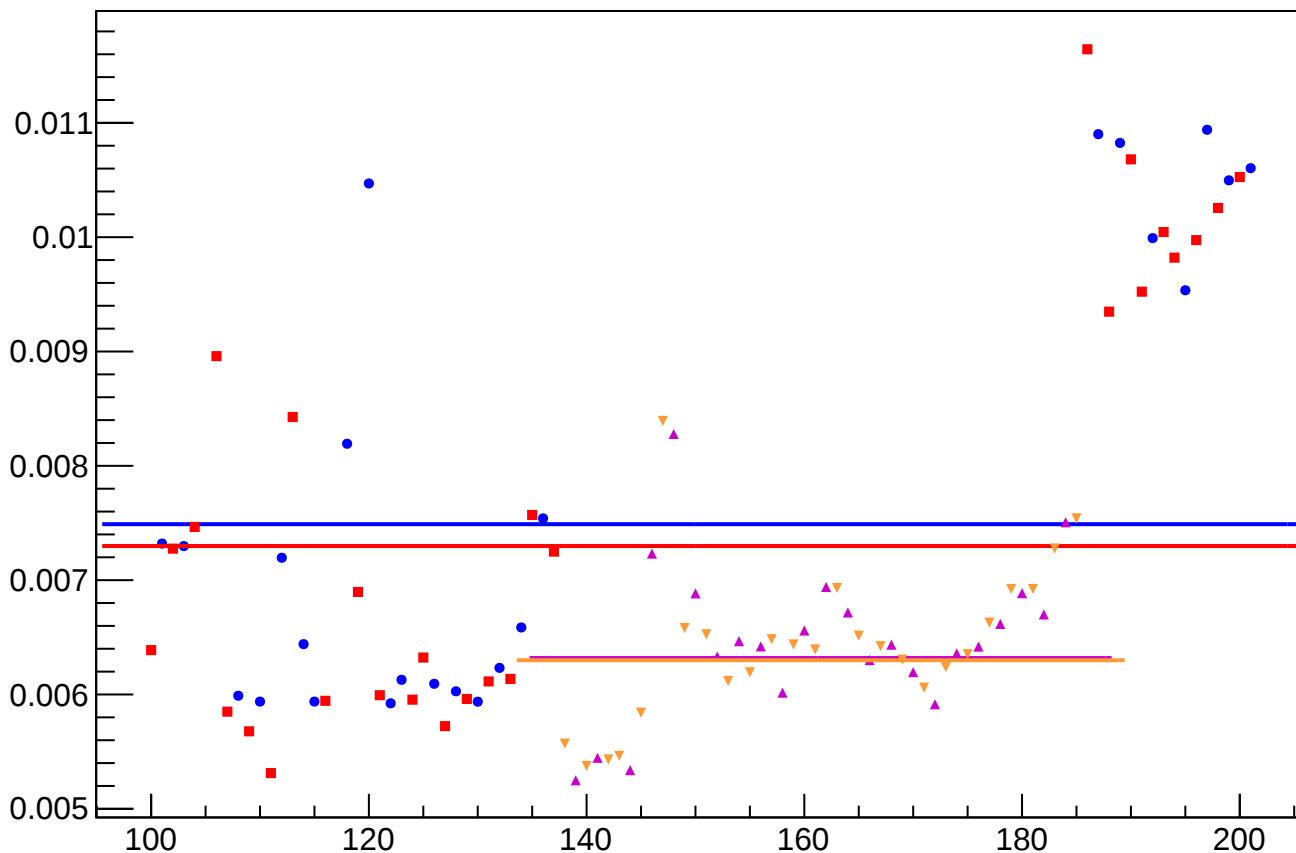
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.503+/-0.000

χ^2/NDF : 376589033596.8

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 1118686.0/23

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 1413255.5/27

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

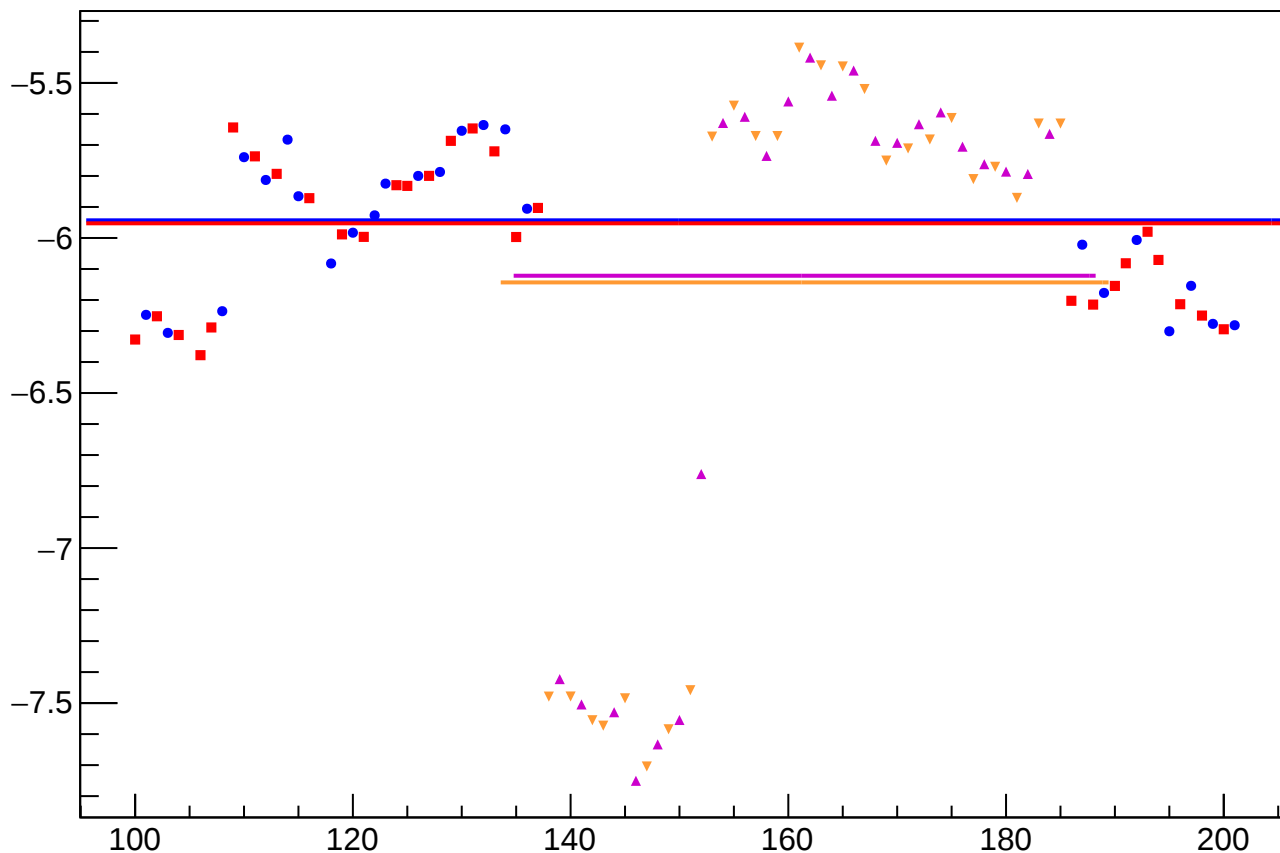
Right: 0.007+/-0.000 χ^2/NDF : 2539197.1/51

In: 0.007+/-0.000 χ^2/NDF :1798514.9/46

Out: 0.007+/-0.000 χ^2/NDF :2019053.0/52

All: 0.007+/-0.000 χ^2/NDF : 3818776.1/99

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.943+/-0.000 χ^2/NDF : 13324541342.2/23

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.953+/-0.000 χ^2/NDF : 14983031098.4/27

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

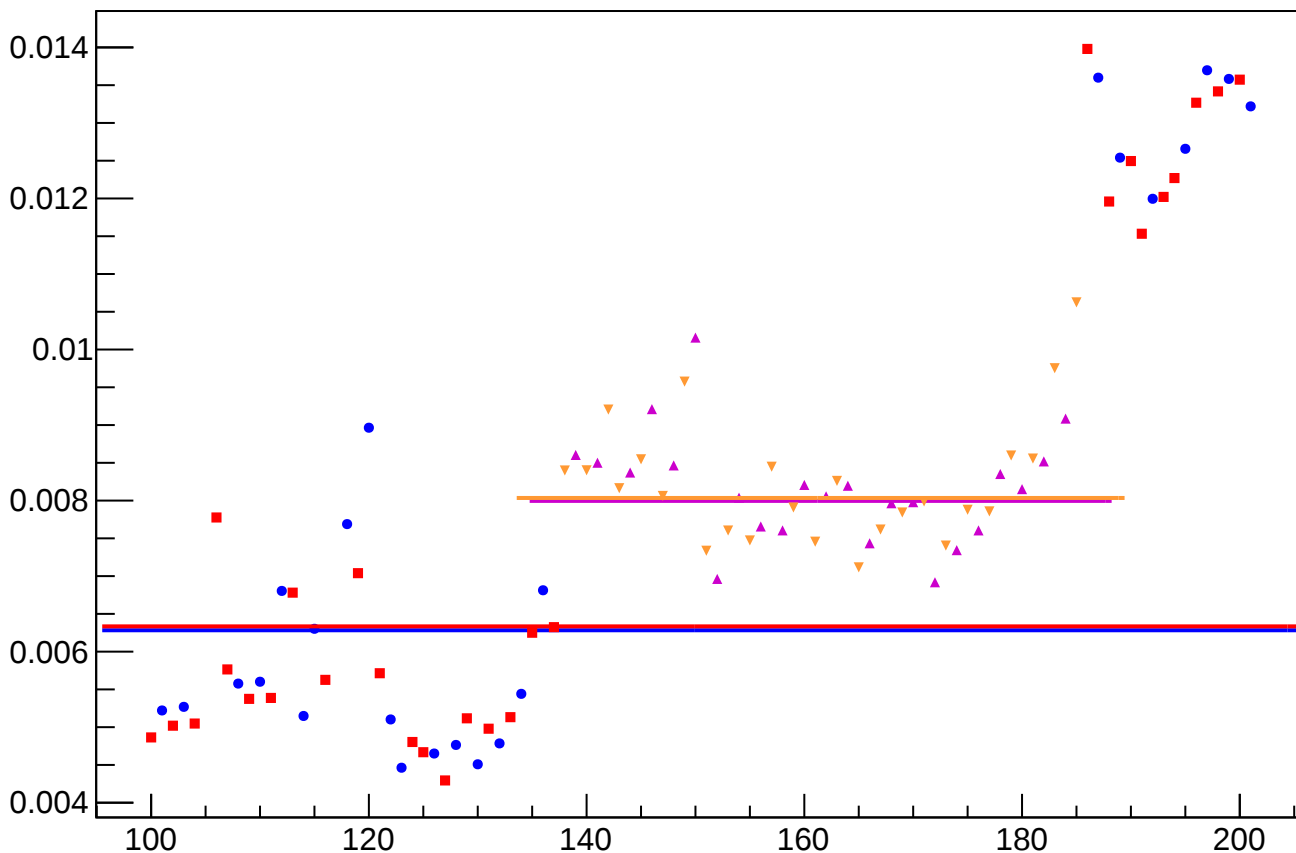
Right: -5.948+/-0.000 χ^2/NDF : 28318844244.9/51

In: -6.036+/-0.000 χ^2/NDF : 177038082287.6/46

Out: -6.048+/-0.000 χ^2/NDF : 205385886230.3/52

All: -6.042+/-0.000 χ^2/NDF : 382457918154.6

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 3087011.5/23

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 3547915.0/27

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

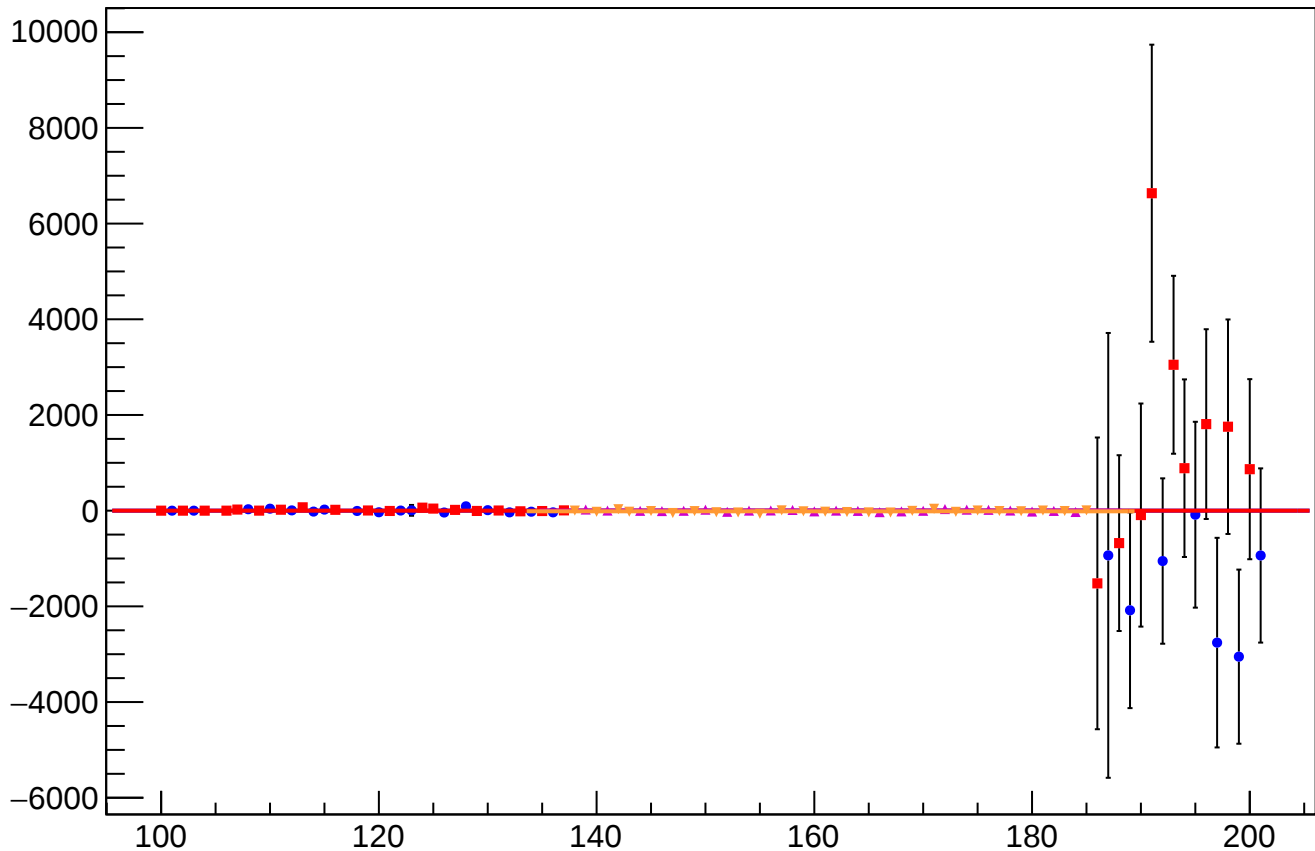
Right: 0.006+/-0.000 χ^2/NDF : 6635569.9/51

In: 0.007+/-0.000 χ^2/NDF :4006356.2/46

Out: 0.007+/-0.000 χ^2/NDF :4499114.7/52

All: 0.007+/-0.000 χ^2/NDF : 8505502.2/99

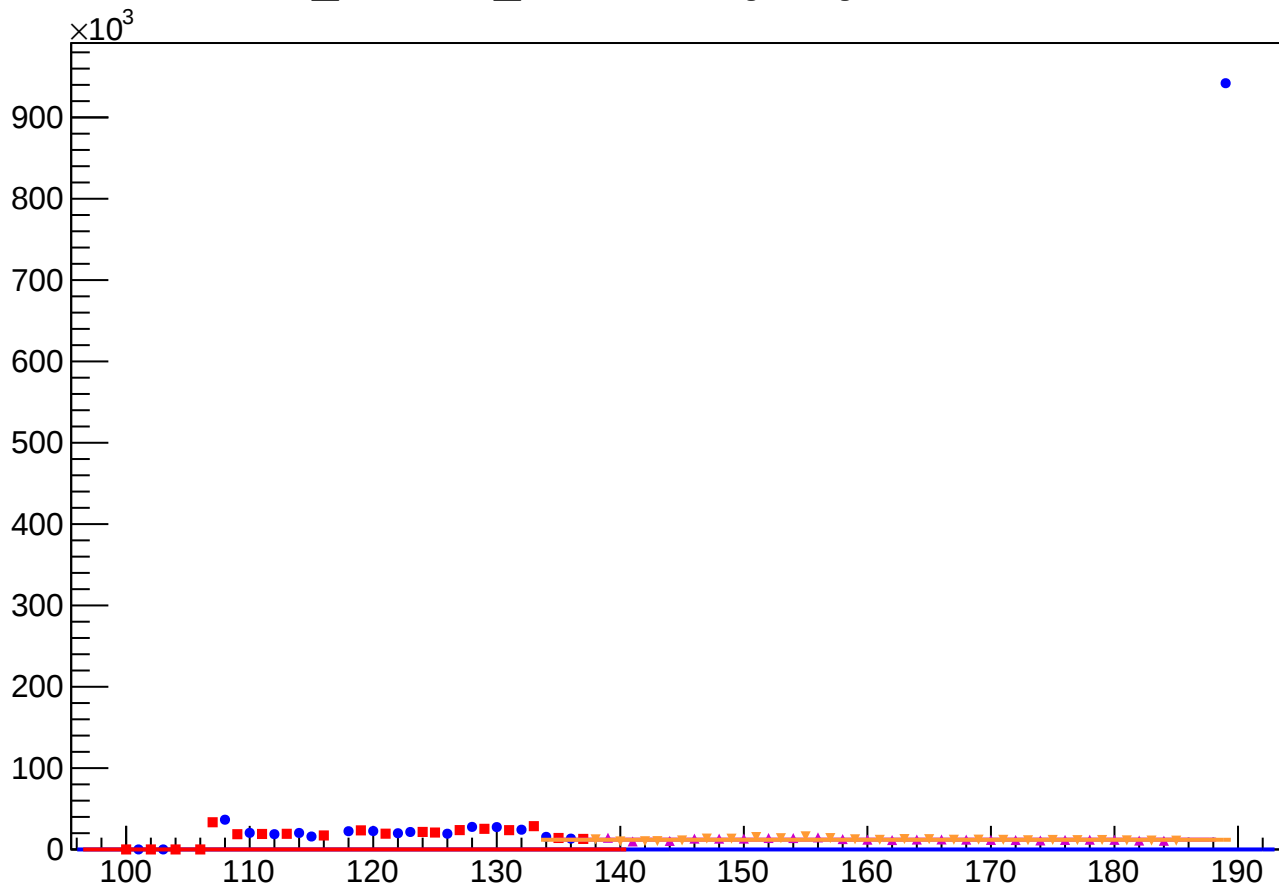
diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 22.4/23$
Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$
Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 24.5/27$
Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 47.3/51$
In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 51.1/46$
Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 106.2/52$
All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 157.8/99$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.640 $\pm$ 0.012 χ^2 /NDF: 10982766.4/17

Left Out: 11909.835 $\pm$ 1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11056055.0/18

Left In: 12064.321 $\pm$ 2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125 $\pm$ 1.425 χ^2 /NDF: 850831.6/47

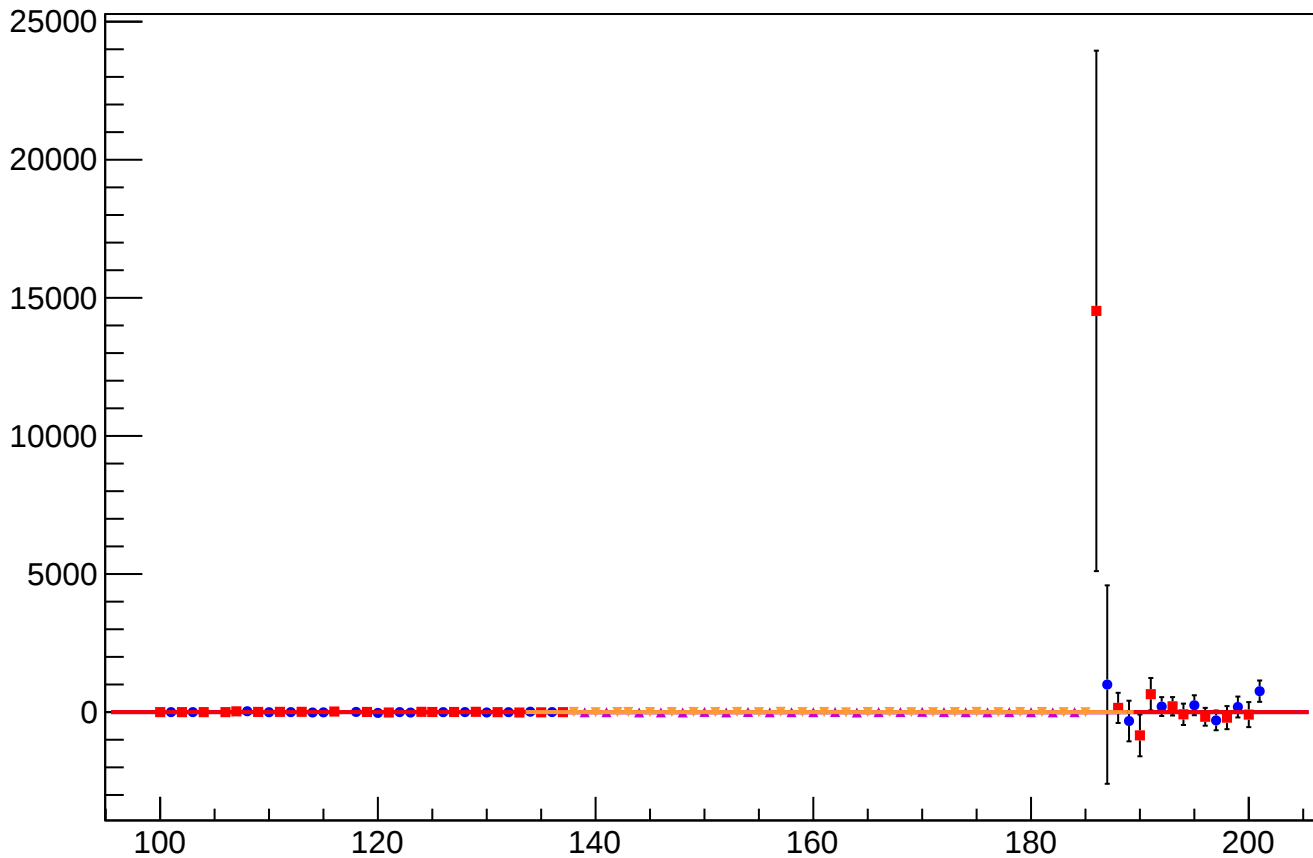
Right: 18.463 $\pm$ 0.008 χ^2 /NDF: 22039209.8/36

In: 19.069 $\pm$ 0.012 χ^2 /NDF: 45733258.4/40

Out: 18.704 $\pm$ 0.011 χ^2 /NDF: 47698495.9/43

All: 18.873 $\pm$ 0.008 χ^2 /NDF: 93432232.0/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 20.5/23

Left Out: 1.675 ± 1.021 χ^2/NDF : 17.9/24

Right Out: -0.014 ± 0.009 χ^2/NDF : 24.5/27

Left In: -0.843 ± 1.043 χ^2/NDF : 35.7/22

Left: 0.443 ± 0.730 χ^2/NDF : 56.5/47

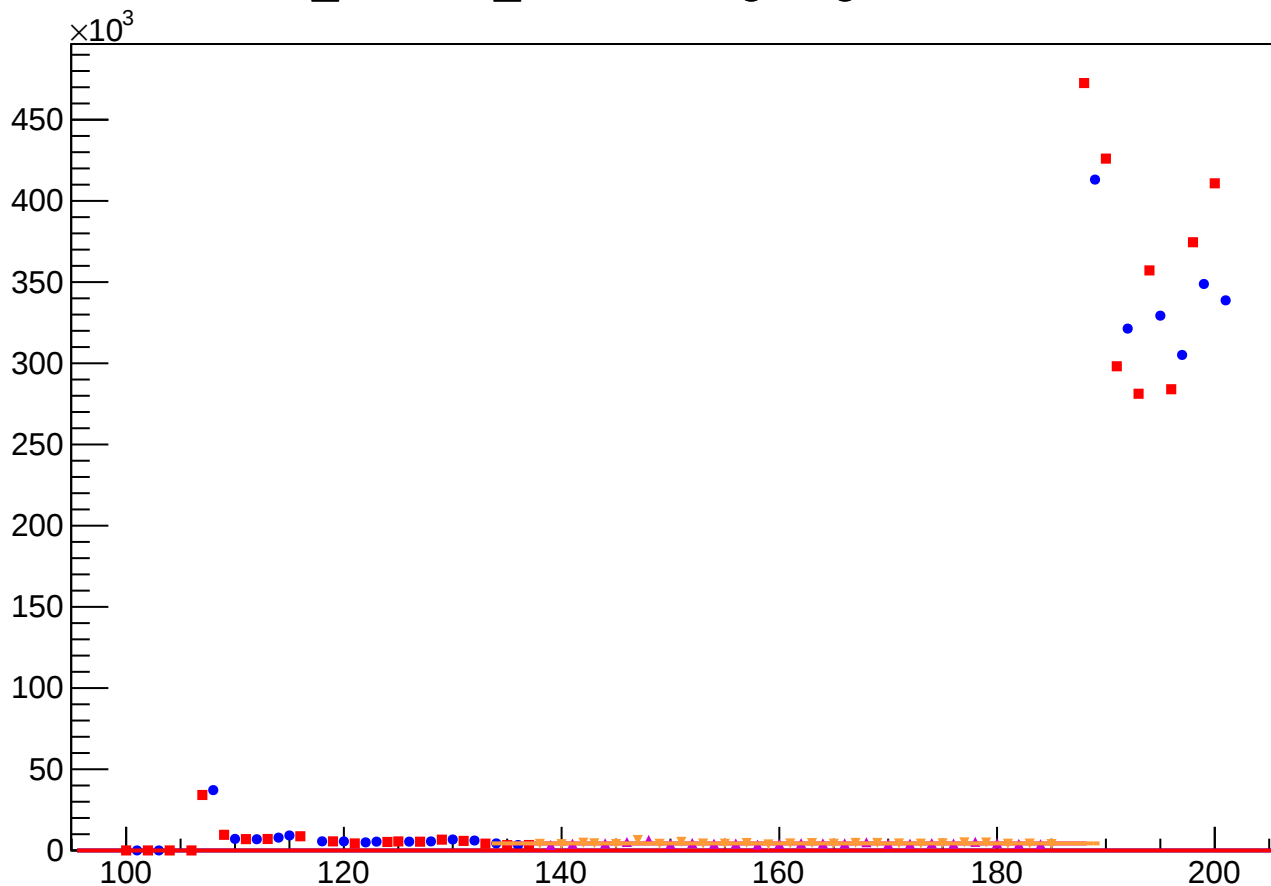
Right: -0.007 ± 0.006 χ^2/NDF : 46.4/51

In: 0.001 ± 0.009 χ^2/NDF : 56.8/46

Out: -0.014 ± 0.009 χ^2/NDF : 45.1/52

All: -0.007 ± 0.006 χ^2/NDF : 103.4/99

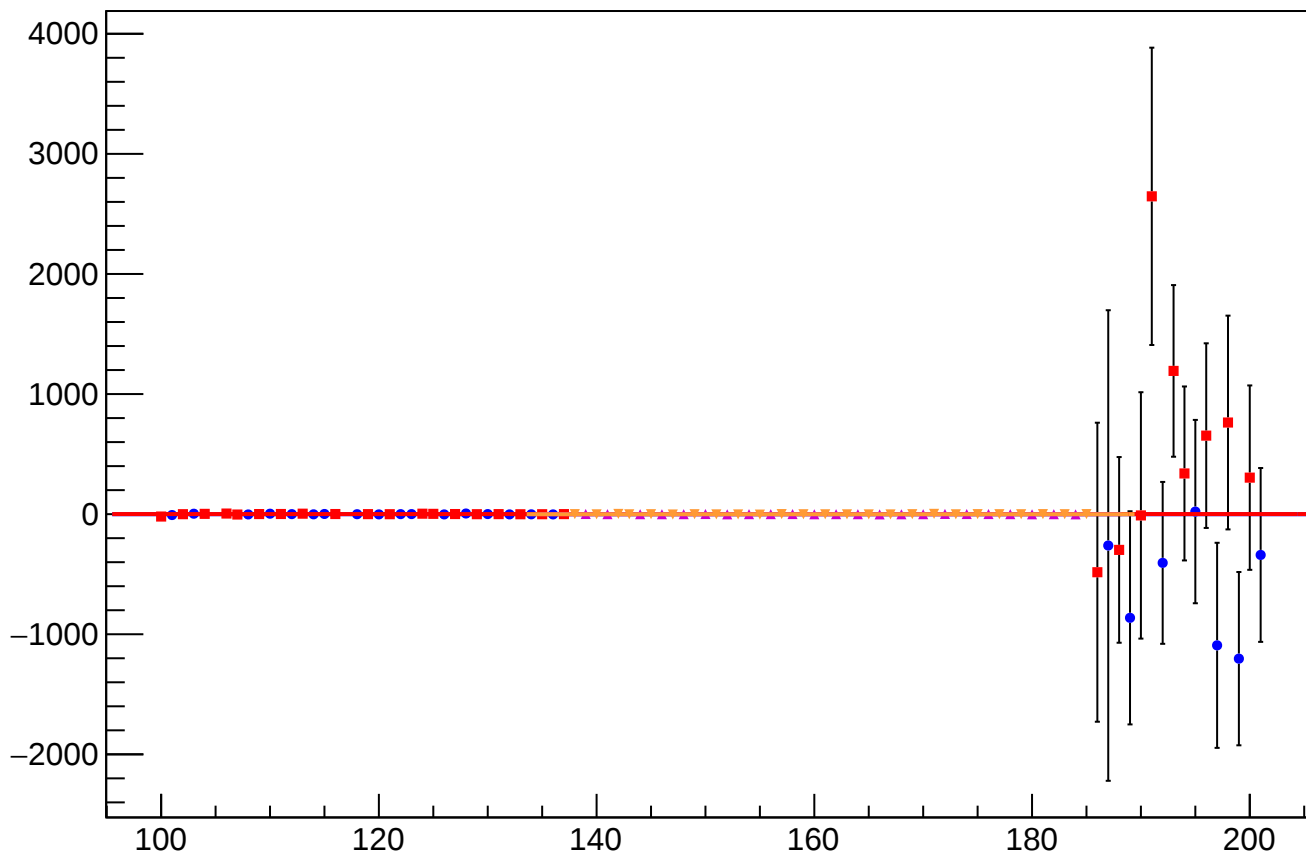
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 ± 0.007 χ^2/NDF : 19667558.7/22
 Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24
 Right Out: 9.855 ± 0.006 χ^2/NDF : 21653009.7/26
 Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47
 Right: 9.894 ± 0.004 χ^2/NDF : 41320656.4/49
 In: 10.274 ± 0.007 χ^2/NDF : 54263573.7/45
 Out: 10.167 ± 0.006 χ^2/NDF : 58182724.1/51
 All: 10.217 ± 0.004 χ^2/NDF : 112446441.9/97

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.703 $\pm$ 0.485 χ^2/NDF : 28.4/23

Left Out: -0.774 $\pm$ 0.164 χ^2/NDF : 58.4/24

Right Out: 0.762 $\pm$ 0.502 χ^2/NDF : 21.2/27

Left In: 0.020 $\pm$ 0.170 χ^2/NDF : 29.2/22

Left: -0.391 $\pm$ 0.118 χ^2/NDF : 98.9/47

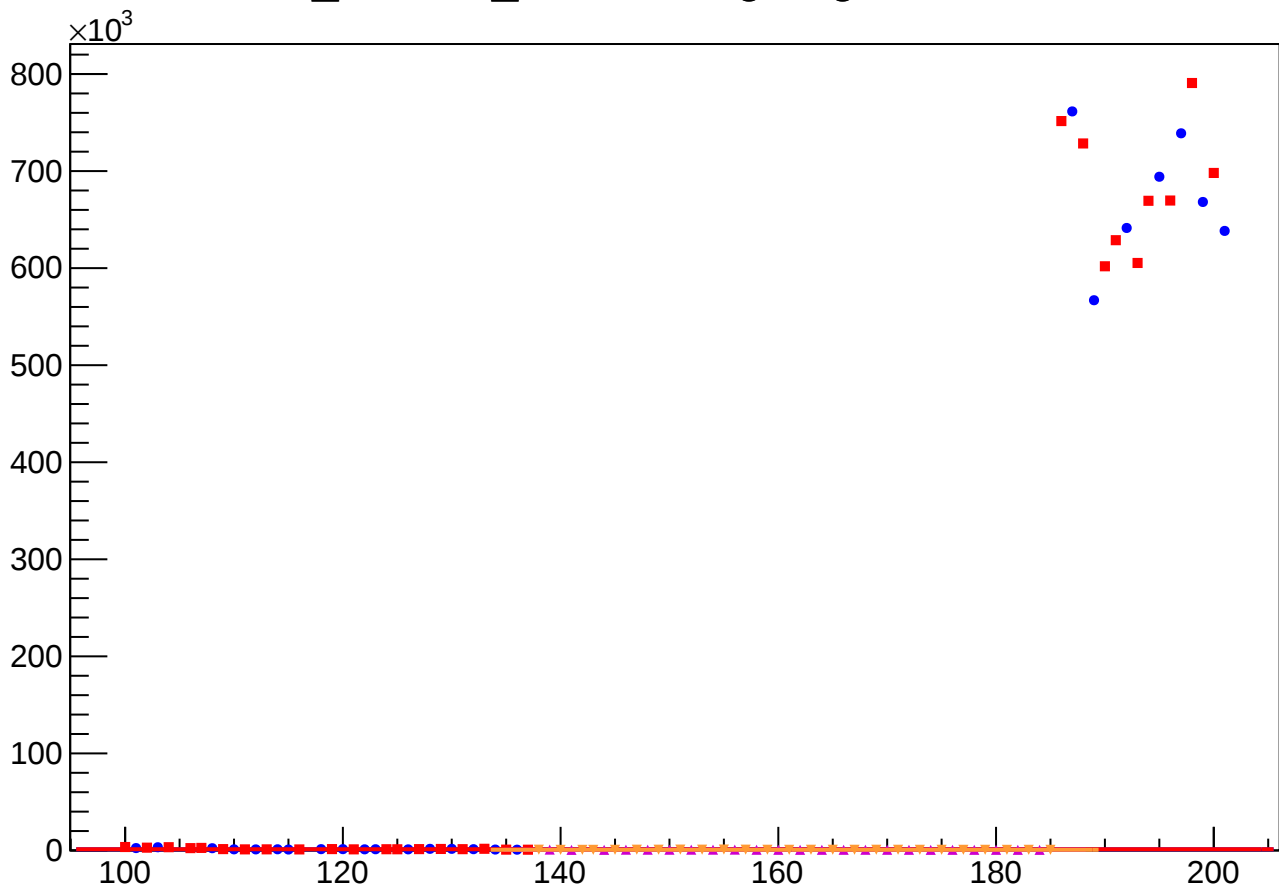
Right: 0.004 $\pm$ 0.349 χ^2/NDF : 54.1/51

In: -0.059 $\pm$ 0.161 χ^2/NDF : 59.7/46

Out: -0.626 $\pm$ 0.156 χ^2/NDF : 88.1/52

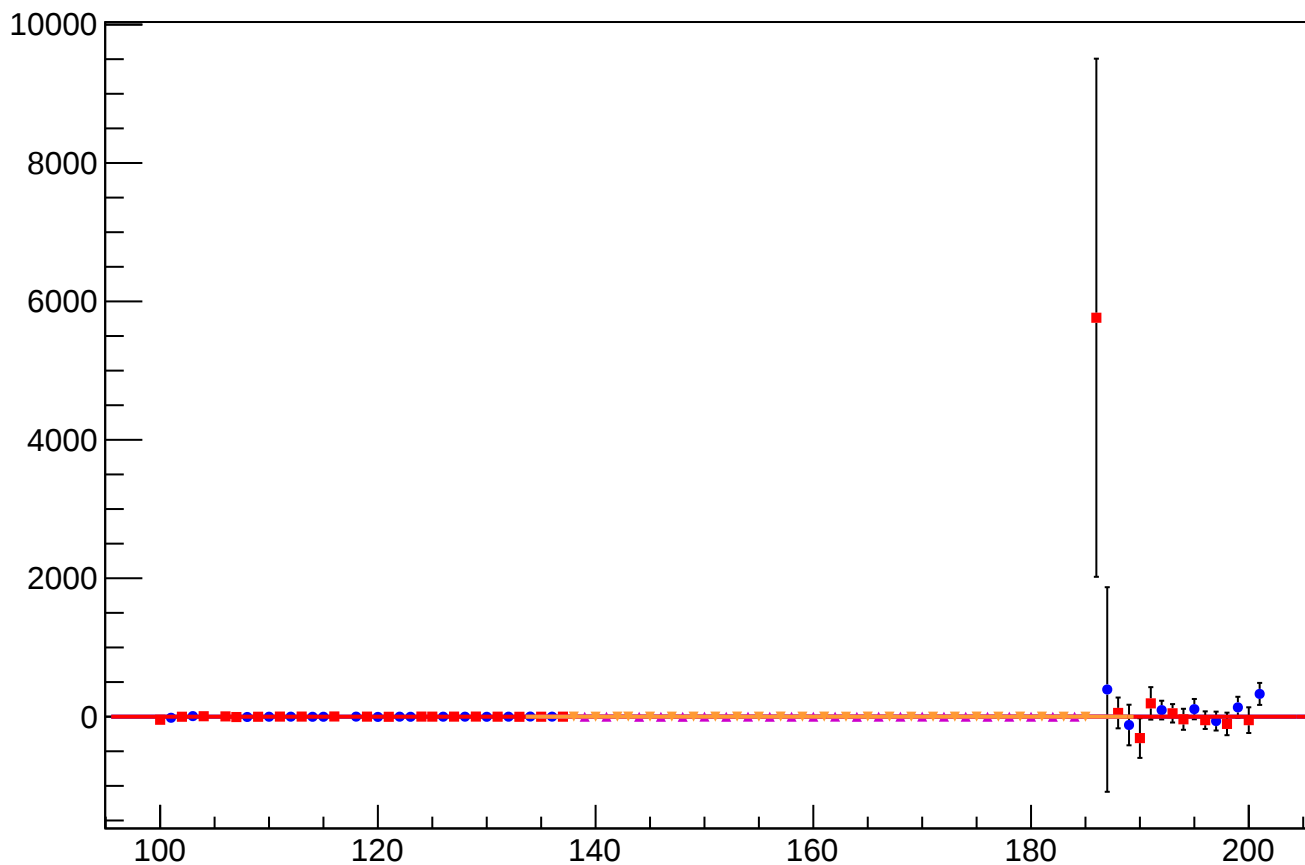
All: -0.350 $\pm$ 0.112 χ^2/NDF : 154.1/99

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1165.863 $\pm$ 0.343 χ^2 /NDF: 10897458.3/23
 Left Out: 700.797 $\pm$ 0.116 χ^2 /NDF:392521.4/24
 Right Out: 1251.386 $\pm$ 0.355 χ^2 /NDF: 13114105.9/27
 Left In: 706.950 $\pm$ 0.120 χ^2 /NDF:338177.1/22
 Left: 703.766 $\pm$ 0.084 χ^2 /NDF: 732052.1/47
 Right: 1207.145 $\pm$ 0.247 χ^2 /NDF: 24041581.9/51
 In: 757.225 $\pm$ 0.114 χ^2 /NDF:12830014.6/46
 Out: 754.052 $\pm$ 0.110 χ^2 /NDF:15679016.1/52
 All: 755.595 $\pm$ 0.079 χ^2 /NDF: 28509432.1/99

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.058 ± 0.271 χ^2/NDF : 27.5/23

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.245 ± 0.265 χ^2/NDF : 25.8/27

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

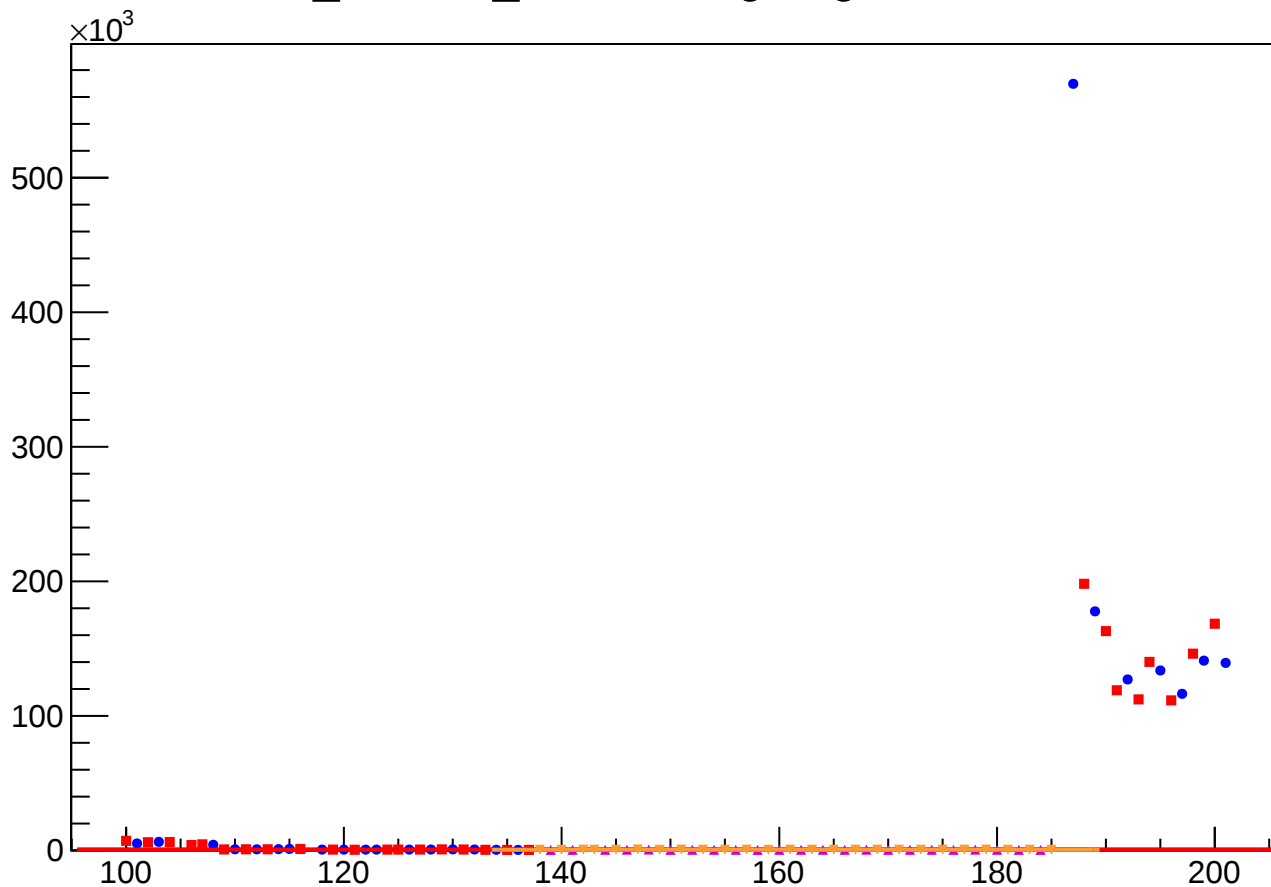
Right: -0.153 ± 0.189 χ^2/NDF : 53.5/51

In: -0.105 ± 0.114 χ^2/NDF : 62.5/46

Out: 0.151 ± 0.111 χ^2/NDF : 46.1/52

All: 0.026 ± 0.080 χ^2/NDF : 111.2/99

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 611.018 $\pm$ 0.191 χ^2 /NDF: 12221168.0/23

Left Out: 522.416 $\pm$ 0.087 χ^2 /NDF:331573.1/24

Right Out: 602.361 $\pm$ 0.187 χ^2 /NDF: 14136859.1/26

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

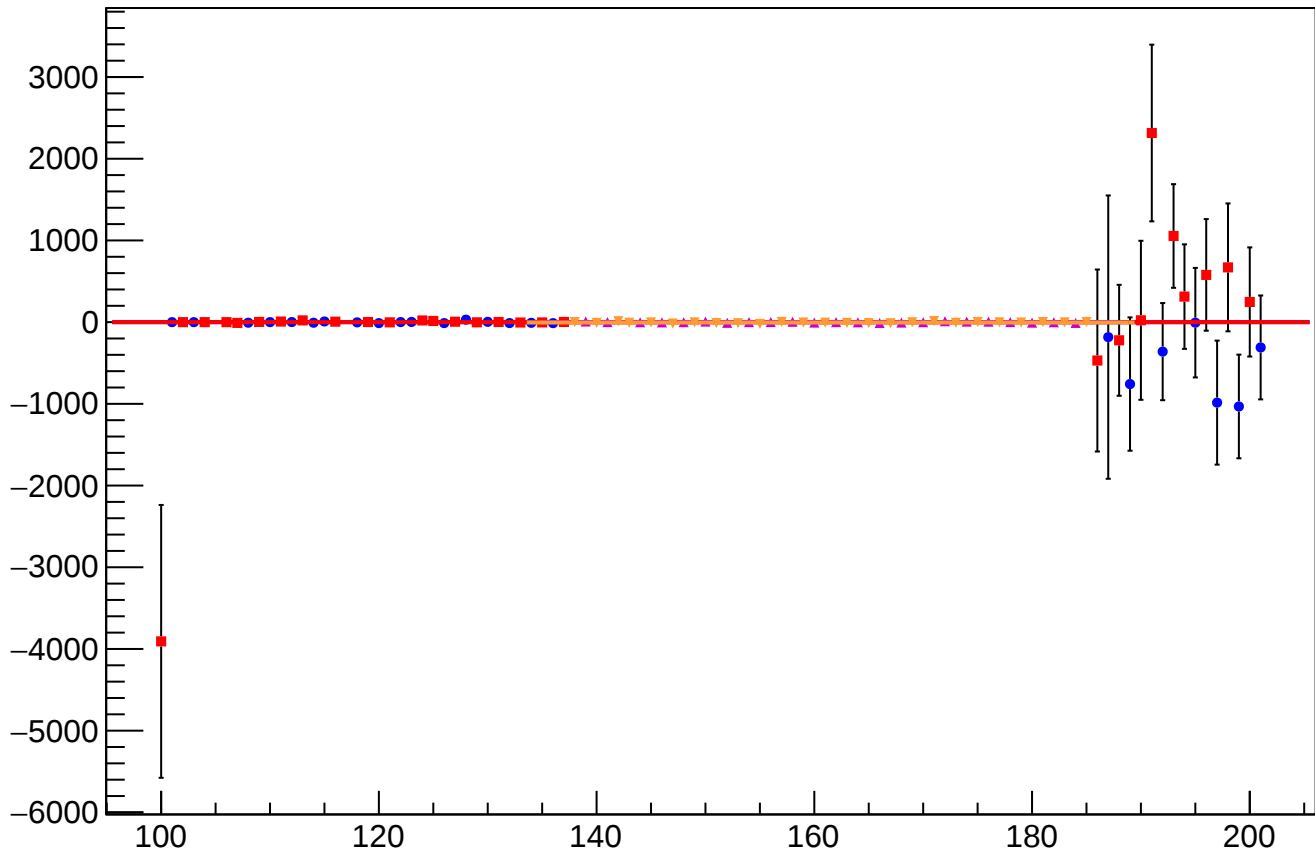
Right: 606.597 $\pm$ 0.134 χ^2 /NDF: 26359072.6/50

In: 536.039 $\pm$ 0.081 χ^2 /NDF:12852547.3/46

Out: 536.502 $\pm$ 0.079 χ^2 /NDF:14618557.7/51

All: 536.276 $\pm$ 0.056 χ^2 /NDF: 27471121.9/98

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2 /NDF: 21.4/23

Left Out: -4.474 $\pm$ 0.956 χ^2 /NDF: 58.2/24

Right Out: 0.027 $\pm$ 0.020 χ^2 /NDF: 26.3/27

Left In: 0.193 $\pm$ 0.990 χ^2 /NDF: 29.2/22

Left: -2.224 $\pm$ 0.688 χ^2 /NDF: 99.0/47

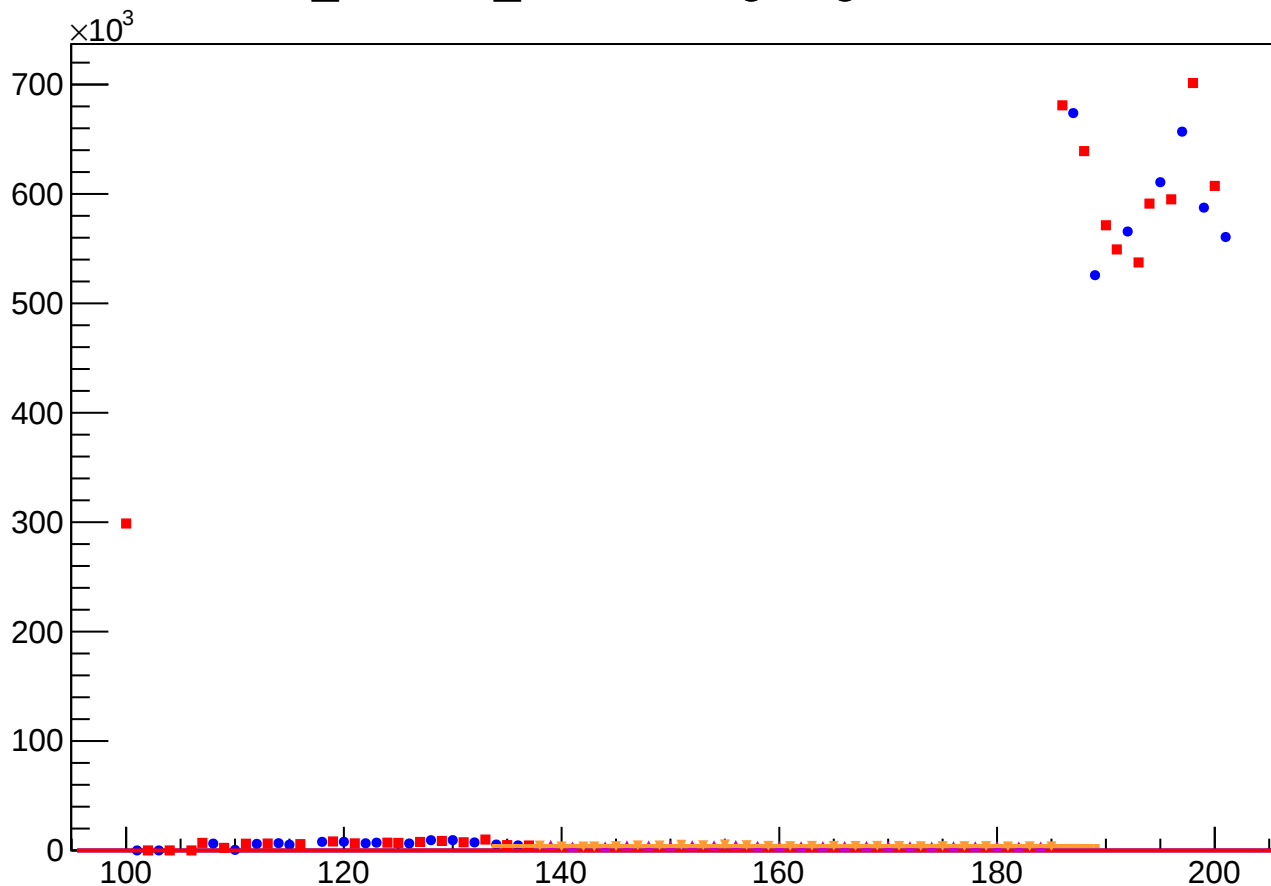
Right: 0.004 $\pm$ 0.014 χ^2 /NDF: 50.5/51

In: -0.022 $\pm$ 0.021 χ^2 /NDF: 50.7/46

Out: 0.025 $\pm$ 0.020 χ^2 /NDF: 106.7/52

All: 0.003 $\pm$ 0.014 χ^2 /NDF: 160.0/99

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.339+/-0.015 χ^2/NDF : 19688675.0/23

Left Out: 4074.257+/-0.676 χ^2/NDF : 416916.0/24

Right Out: 17.271+/-0.014 χ^2/NDF : 22383422.3/27

Left In: 4113.744+/-0.700 χ^2/NDF : 354965.8/22

Left: 4093.298+/-0.486 χ^2/NDF : 773528.6/47

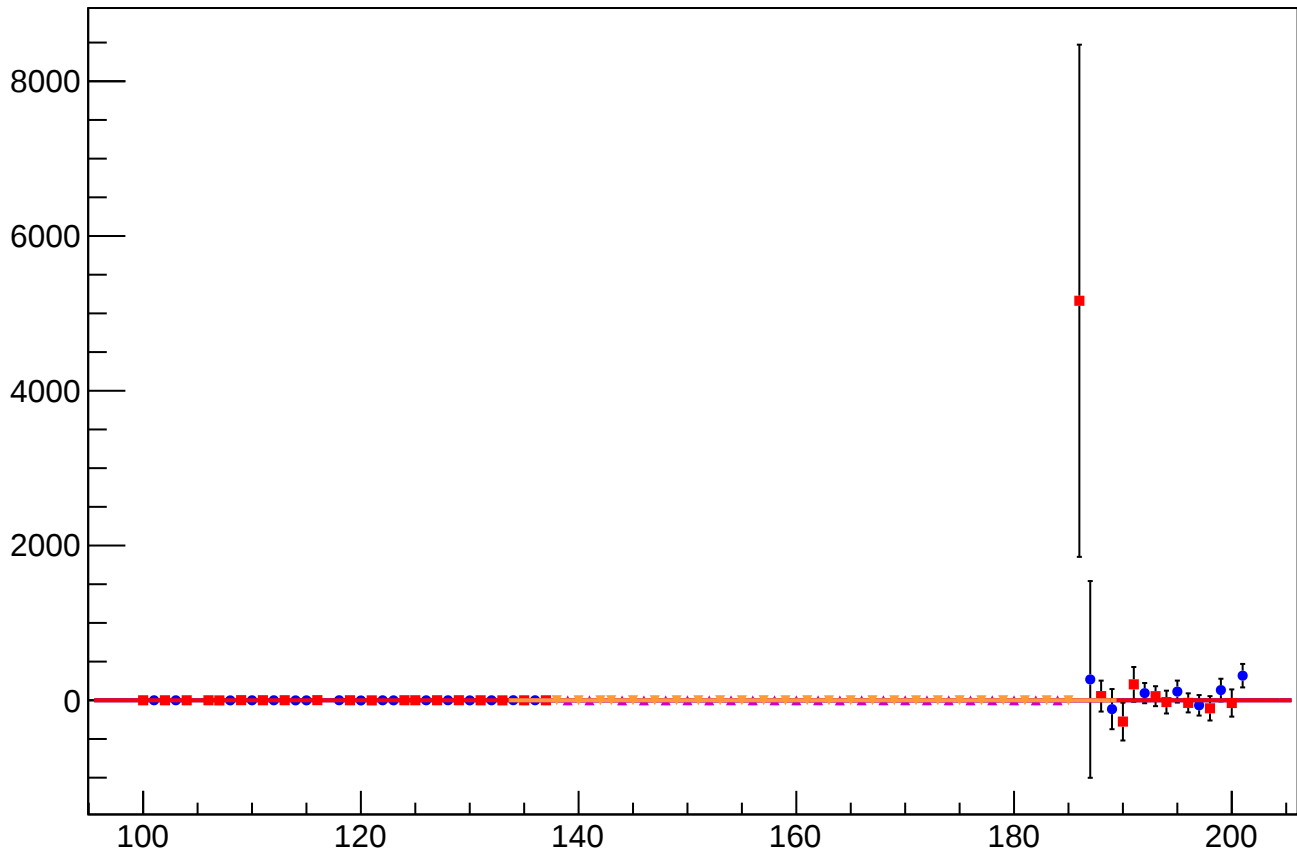
Right: 17.303+/-0.010 χ^2/NDF : 42072108.6/51

In: 19.145+/-0.015 χ^2/NDF : 54257865.9/46

Out: 19.008+/-0.014 χ^2/NDF : 58836351.5/52

All: 19.073+/-0.010 χ^2/NDF : 113094262.9/99

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 22.2/23$

Left Out: 0.151 ± 0.076 $\chi^2/\text{NDF}: 16.8/24$

Right Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 23.4/27$

Left In: -0.075 ± 0.078 $\chi^2/\text{NDF}: 34.8/22$

Left: 0.041 ± 0.055 $\chi^2/\text{NDF}: 55.8/47$

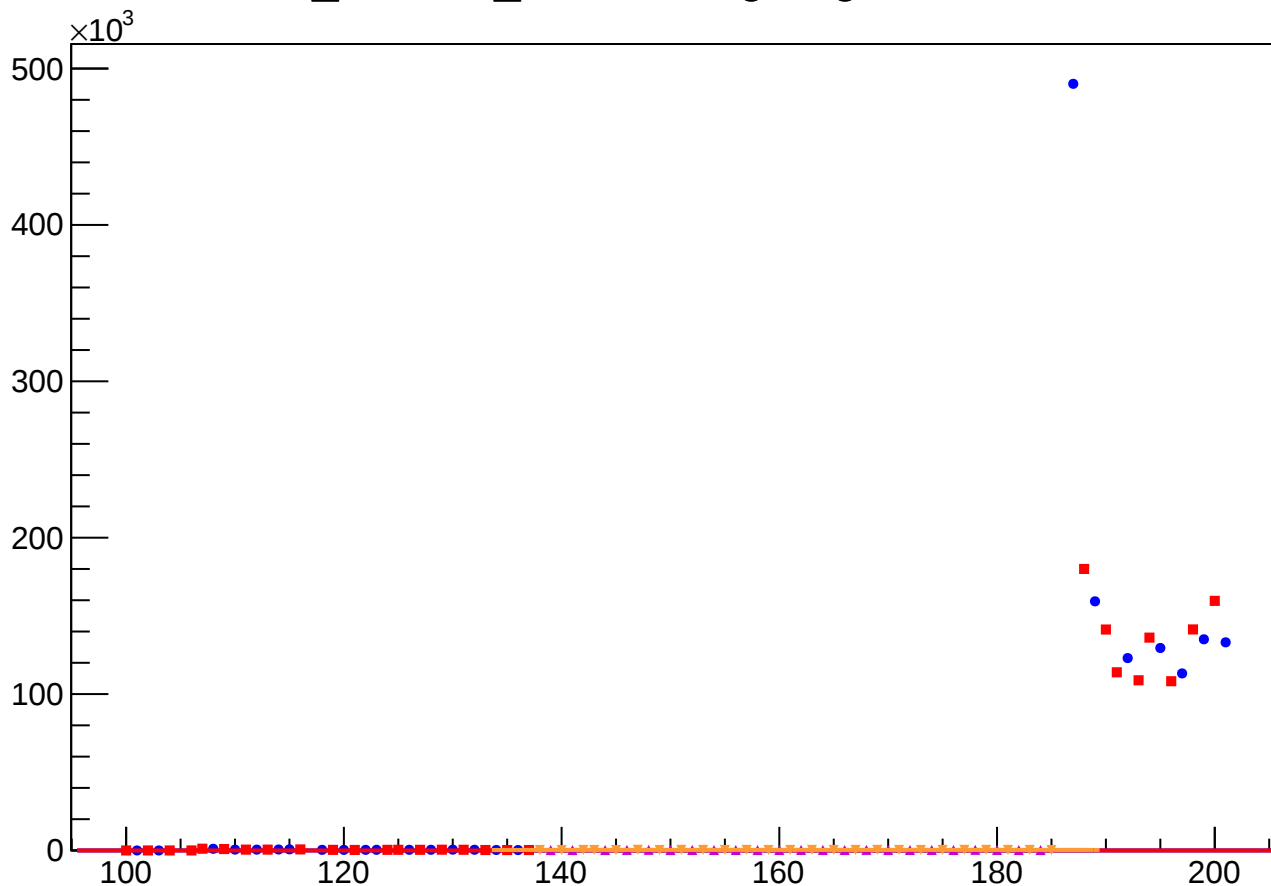
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 45.7/51$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 57.9/46$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 44.2/52$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 102.1/99$

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2 /NDF: 20056161.3/23

Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF:350046.8/24

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 21428202.3/26

Left In: 325.201 $\pm$ 0.055 χ^2 /NDF:428069.7/22

Left: 325.339 $\pm$ 0.039 χ^2 /NDF: 778128.6/47

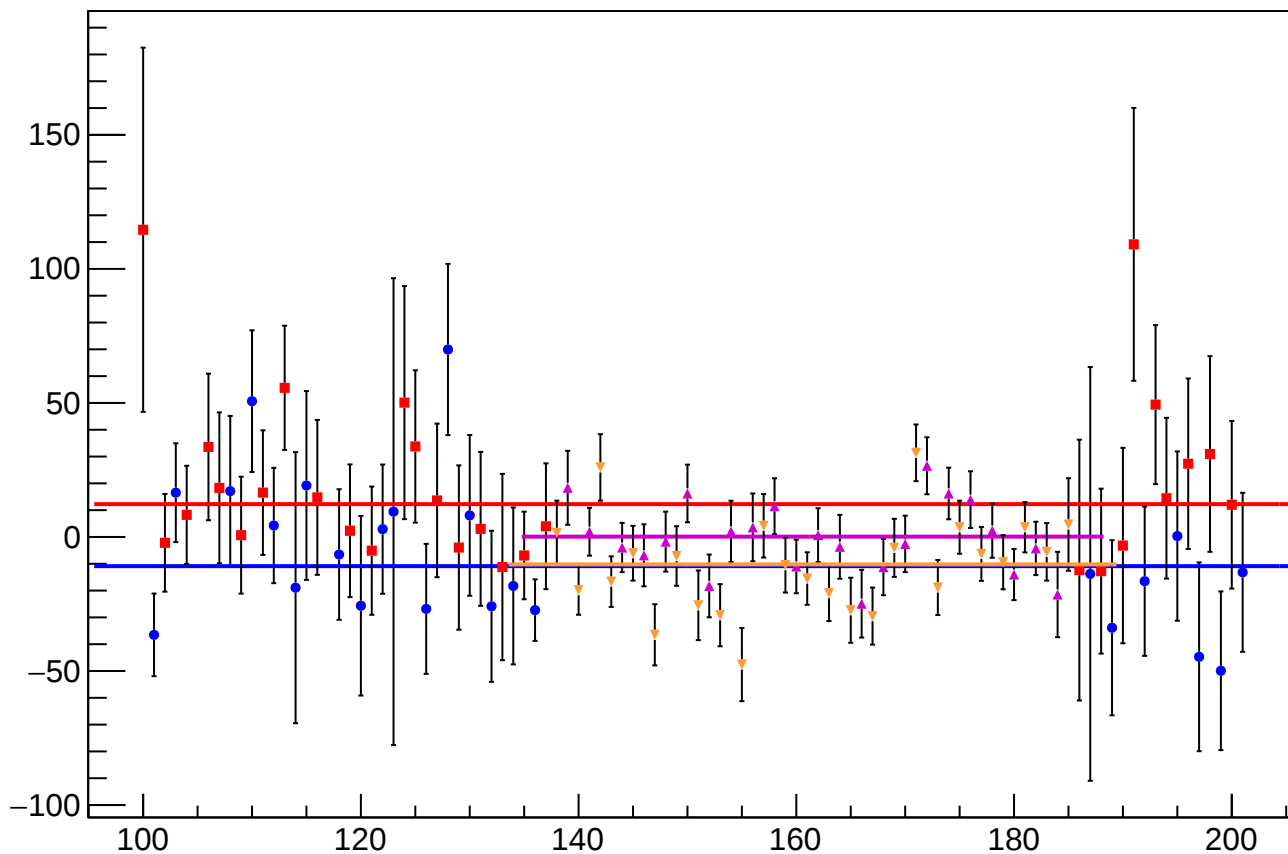
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 41484590.7/50

In: 1.914 $\pm$ 0.001 χ^2 /NDF:54459597.2/46

Out: 1.937 $\pm$ 0.001 χ^2 /NDF:57736022.8/51

All: 1.926 $\pm$ 0.001 χ^2 /NDF: 112195757.9/98

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -10.889 ± 5.134 χ^2/NDF : 26.2/23

Left Out: -10.235 ± 2.167 χ^2/NDF : 58.0/24

Right Out: 12.253 ± 5.097 χ^2/NDF : 18.6/27

Left In: 0.130 ± 2.242 χ^2/NDF : 29.8/22

Left: -5.230 ± 1.558 χ^2/NDF : 98.9/47

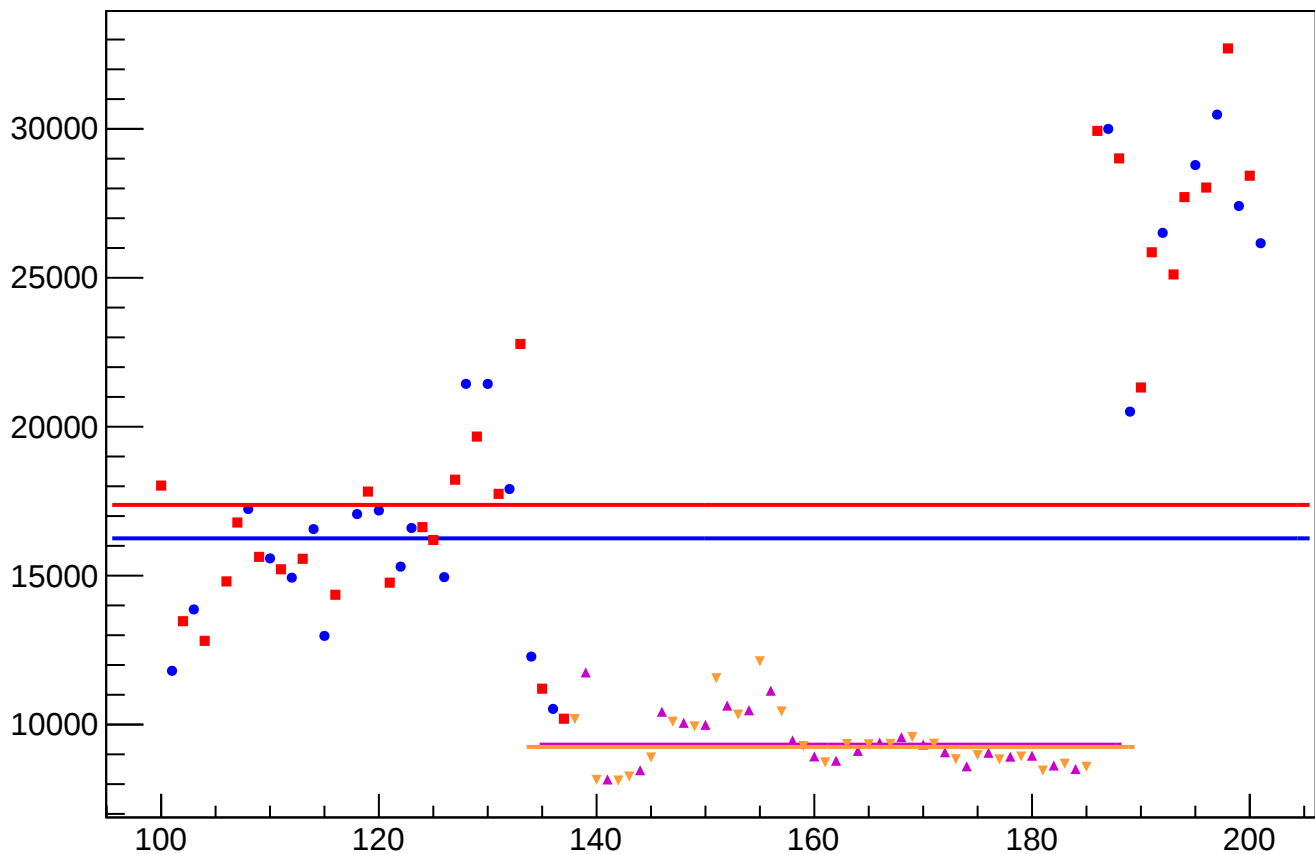
Right: 0.767 ± 3.617 χ^2/NDF : 55.0/51

In: -1.635 ± 2.055 χ^2/NDF : 59.9/46

Out: -6.793 ± 1.994 χ^2/NDF : 93.0/52

All: -4.292 ± 1.431 χ^2/NDF : 156.2/99

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16251.948 $\pm$ 3.631 χ^2 /NDF: 2412574.5/23

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF: 332003.4/24

Right Out: 17374.634 $\pm$ 3.604 χ^2 /NDF: 2560761.2/27

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

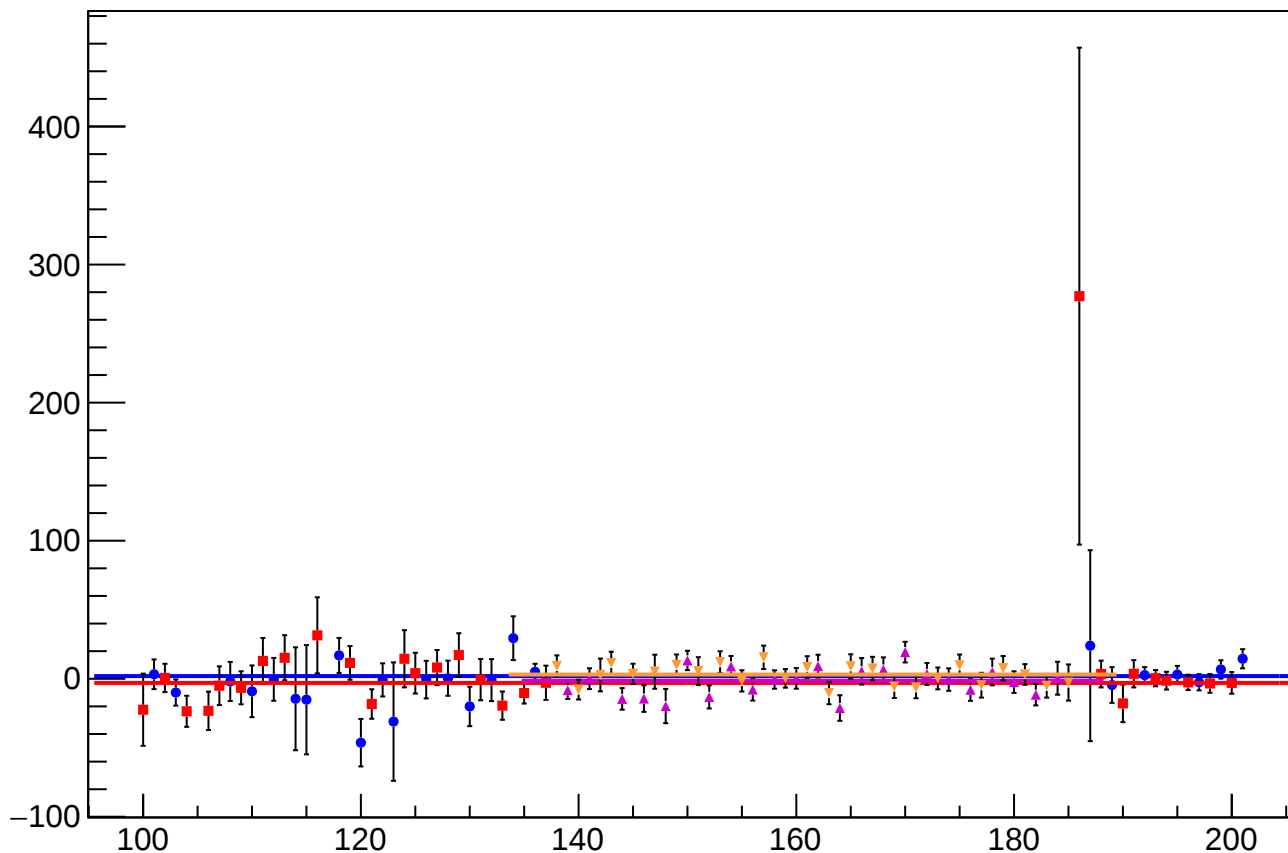
Right: 16817.405 $\pm$ 2.558 χ^2 /NDF: 5021496.7/51

In: 10434.519 $\pm$ 1.453 χ^2 /NDF: 5750562.5/46

Out: 10492.865 $\pm$ 1.410 χ^2 /NDF: 7197453.7/52

All: 10464.569 $\pm$ 1.012 χ^2 /NDF: 12948846.7

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.955 ± 2.050 χ^2/NDF : 22.8/23

Left Out: 3.062 ± 1.659 χ^2/NDF : 18.3/24

Right Out: -3.003 ± 1.943 χ^2/NDF : 25.2/27

Left In: -1.394 ± 1.693 χ^2/NDF : 35.4/22

Left: 0.879 ± 1.185 χ^2/NDF : 57.2/47

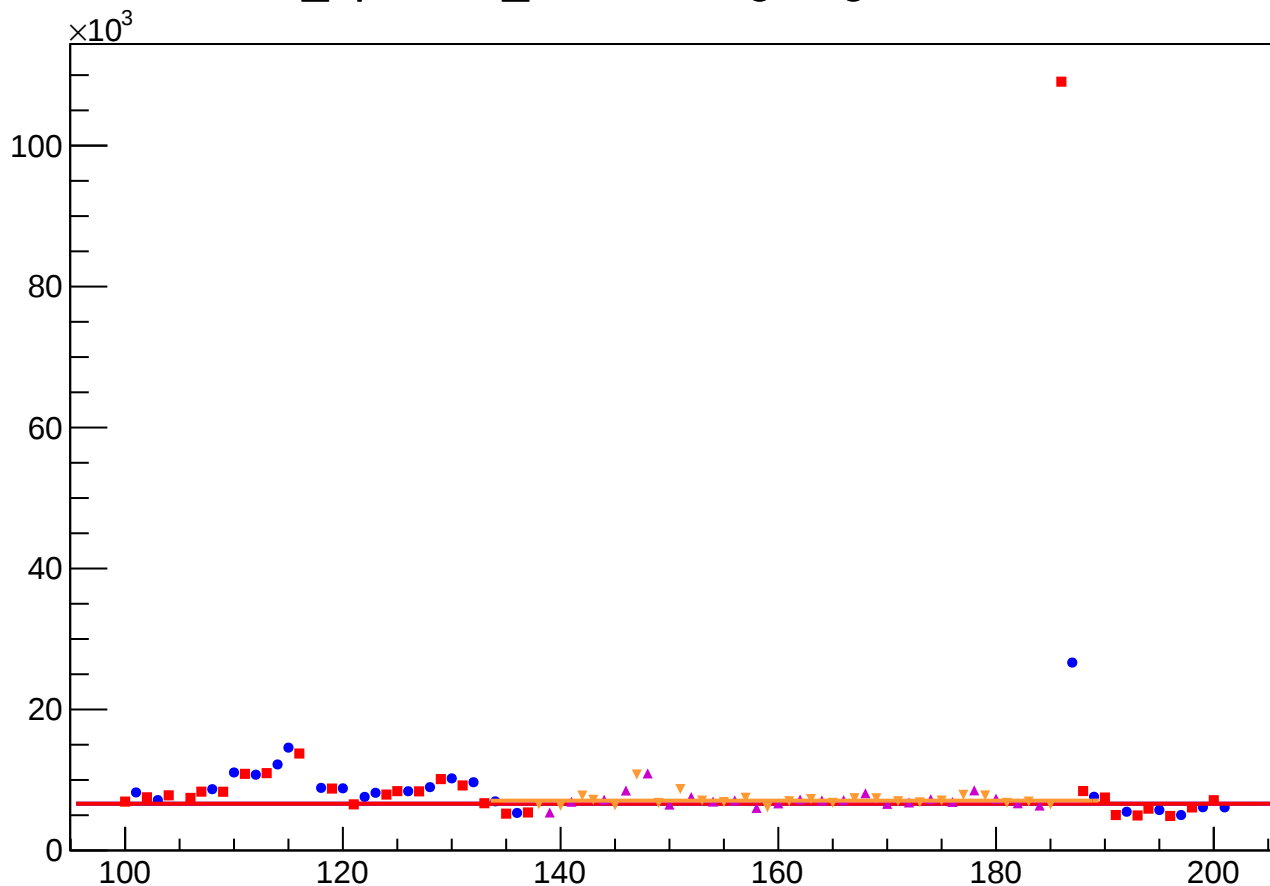
Right: -0.656 ± 1.410 χ^2/NDF : 51.1/51

In: -0.036 ± 1.305 χ^2/NDF : 59.8/46

Out: 0.505 ± 1.262 χ^2/NDF : 49.1/52

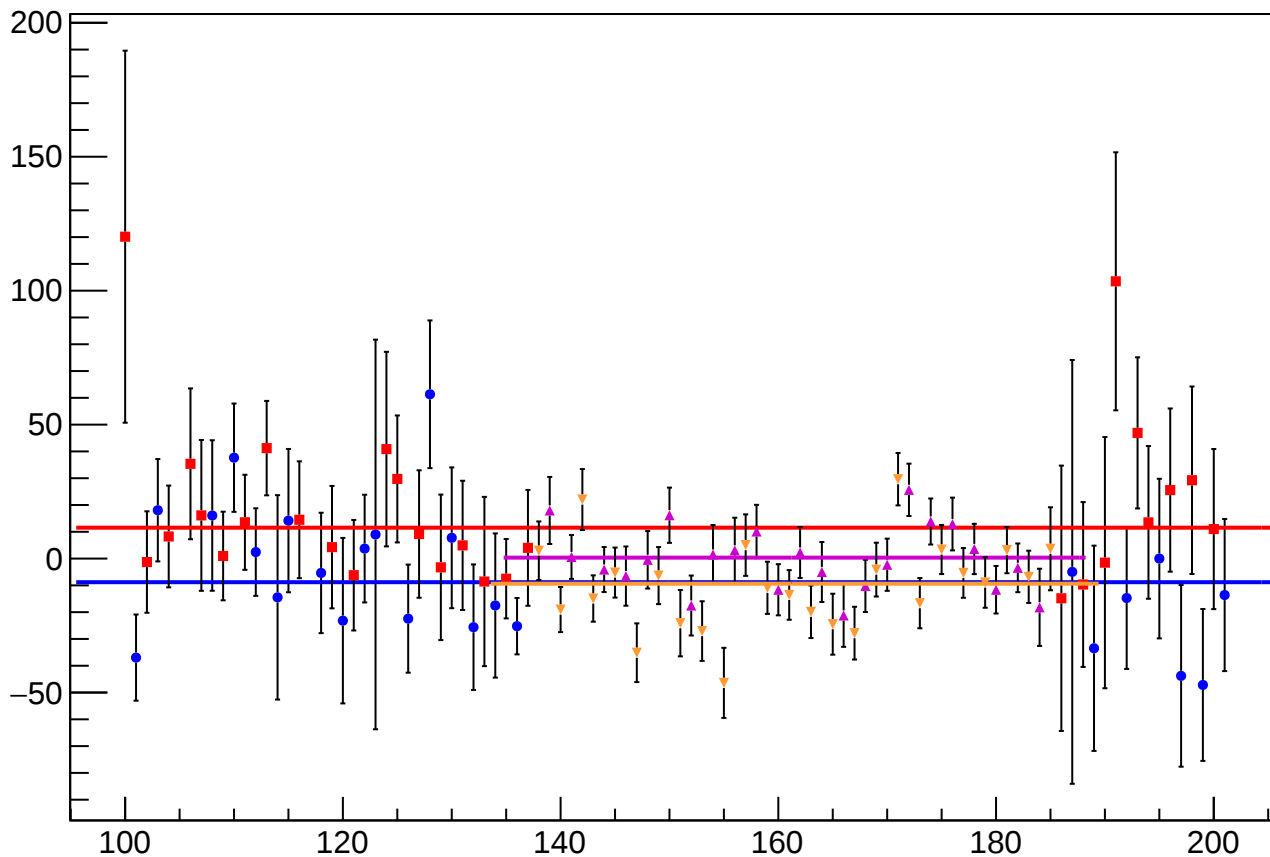
All: 0.244 ± 0.907 χ^2/NDF : 109.0/99

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6630.914 $\pm$ 1.449	χ^2/NDF : 1462675.9/23	Left: 7034.358 $\pm$ 0.838	χ^2/NDF : 939043.5/47
Left Out: 7066.826 $\pm$ 1.173	χ^2/NDF : 387449.8/24	Right: 6631.682 $\pm$ 0.997	χ^2/NDF : 3543438.0/51
Right Out: 6632.373 $\pm$ 1.374	χ^2/NDF : 2080761.6/27	In: 6850.619 $\pm$ 0.923	χ^2/NDF : 2051360.9/46
Left In: 7000.532 $\pm$ 1.197	χ^2/NDF : 550029.3/22	Out: 6883.694 $\pm$ 0.892	χ^2/NDF : 2526038.1/52
		All: 6867.720 $\pm$ 0.641	χ^2/NDF : 4578062.8/99

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -8.816 ± 4.661 $\chi^2/\text{NDF}: 26.9/23$

Left Out: -9.376 ± 2.018 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 11.536 ± 4.581 $\chi^2/\text{NDF}: 18.1/27$

Left In: 0.353 ± 2.092 $\chi^2/\text{NDF}: 29.6/22$

Left: -4.688 ± 1.452 $\chi^2/\text{NDF}: 99.3/47$

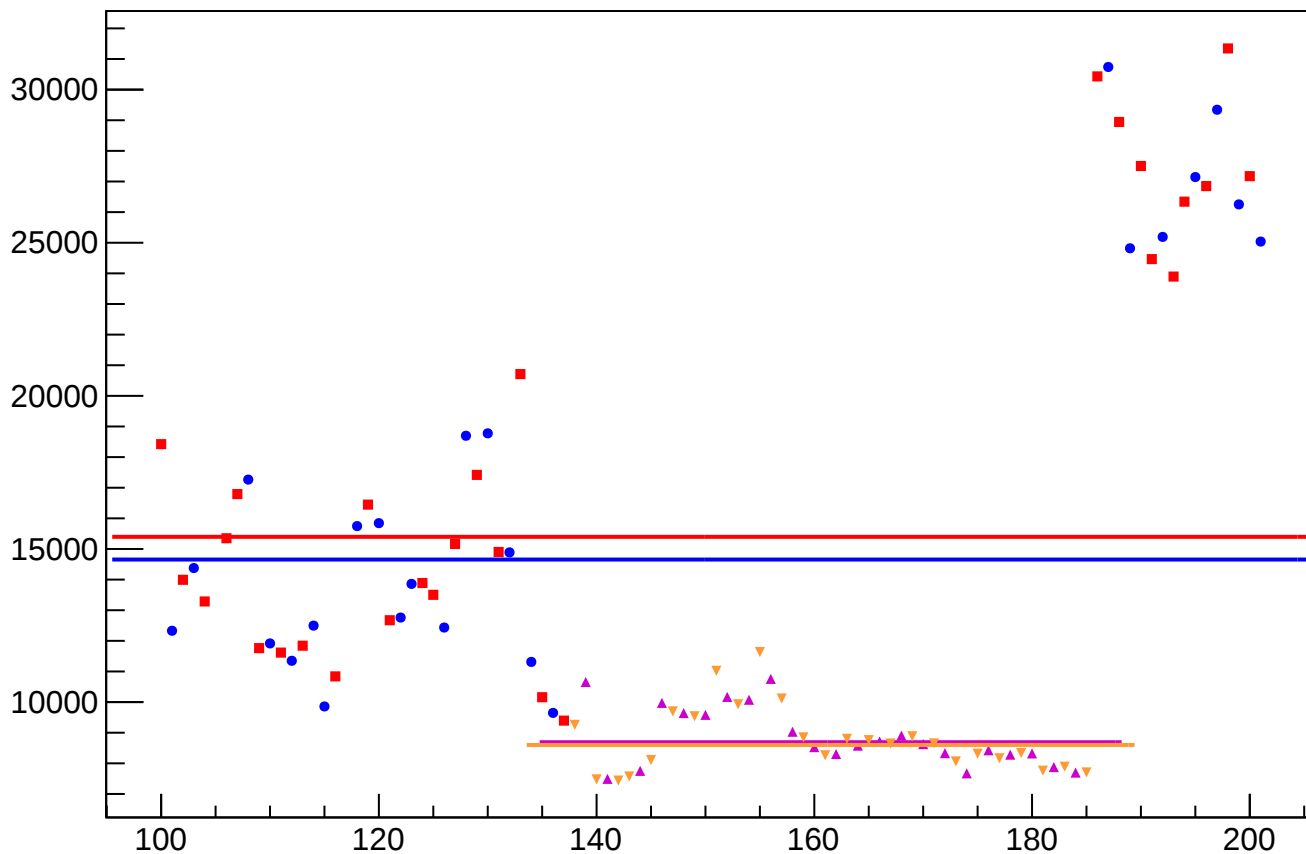
Right: 1.534 ± 3.267 $\chi^2/\text{NDF}: 54.7/51$

In: -1.185 ± 1.909 $\chi^2/\text{NDF}: 59.8/46$

Out: -5.979 ± 1.847 $\chi^2/\text{NDF}: 94.0/52$

All: -3.661 ± 1.327 $\chi^2/\text{NDF}: 157.0/99$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 14655.229+/-3.296 χ^2/NDF : 2744111.0/23

Left Out: 8600.457+/-1.427 χ^2/NDF : 438229.4/24

Right Out: 15397.137+/-3.239 χ^2/NDF : 3190598.0/27

Left In: 8690.209+/-1.479 χ^2/NDF : 370834.1/22

Left: 8643.707+/-1.027 χ^2/NDF : 810970.4/47

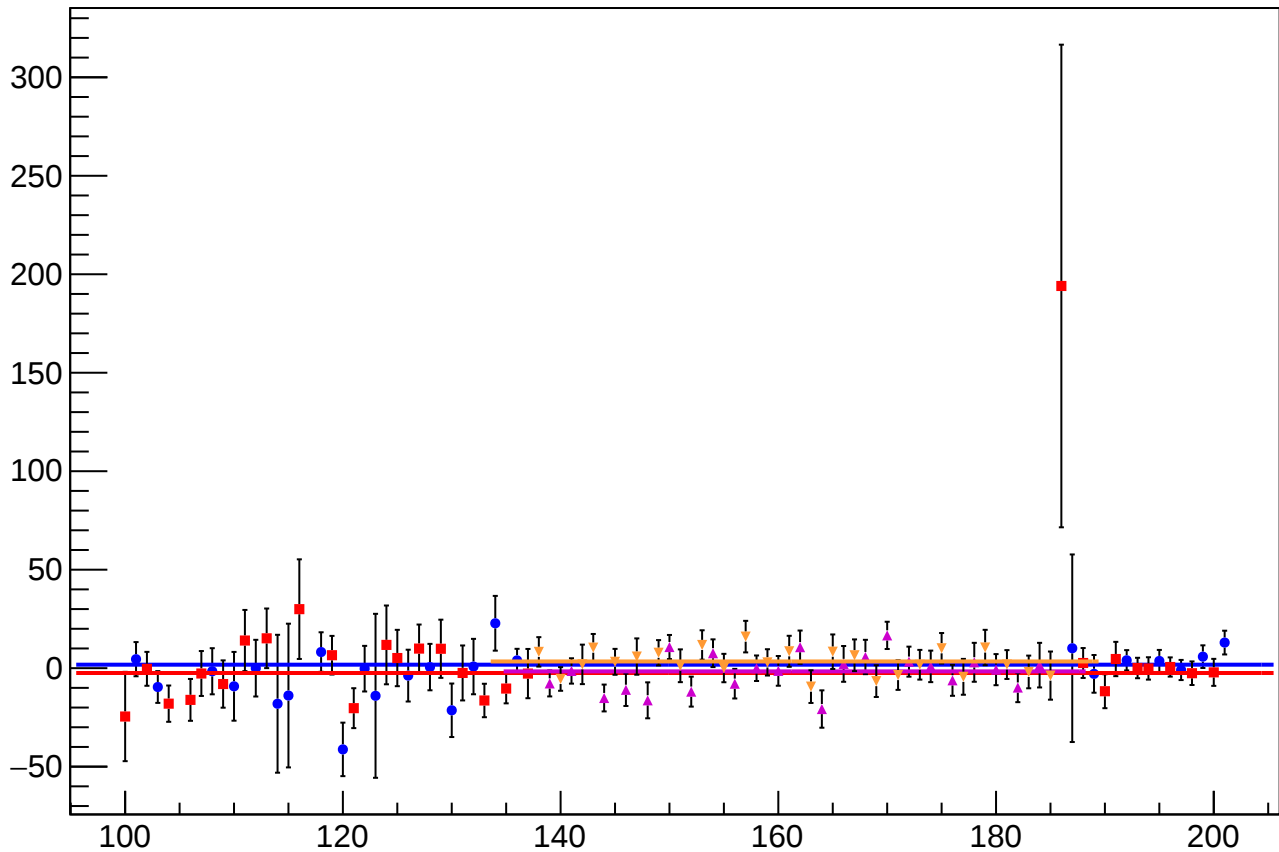
Right: 15032.553+/-2.310 χ^2/NDF : 5960484.0/51

In: 9690.667+/-1.350 χ^2/NDF : 5841576.4/46

Out: 9704.676+/-1.306 χ^2/NDF : 7315602.3/52

All: 9697.904+/-0.938 χ^2/NDF : 13157234.3/95

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.769 ± 1.815 χ^2/NDF : 24.0/23

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -2.450 ± 1.700 χ^2/NDF : 25.8/27

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

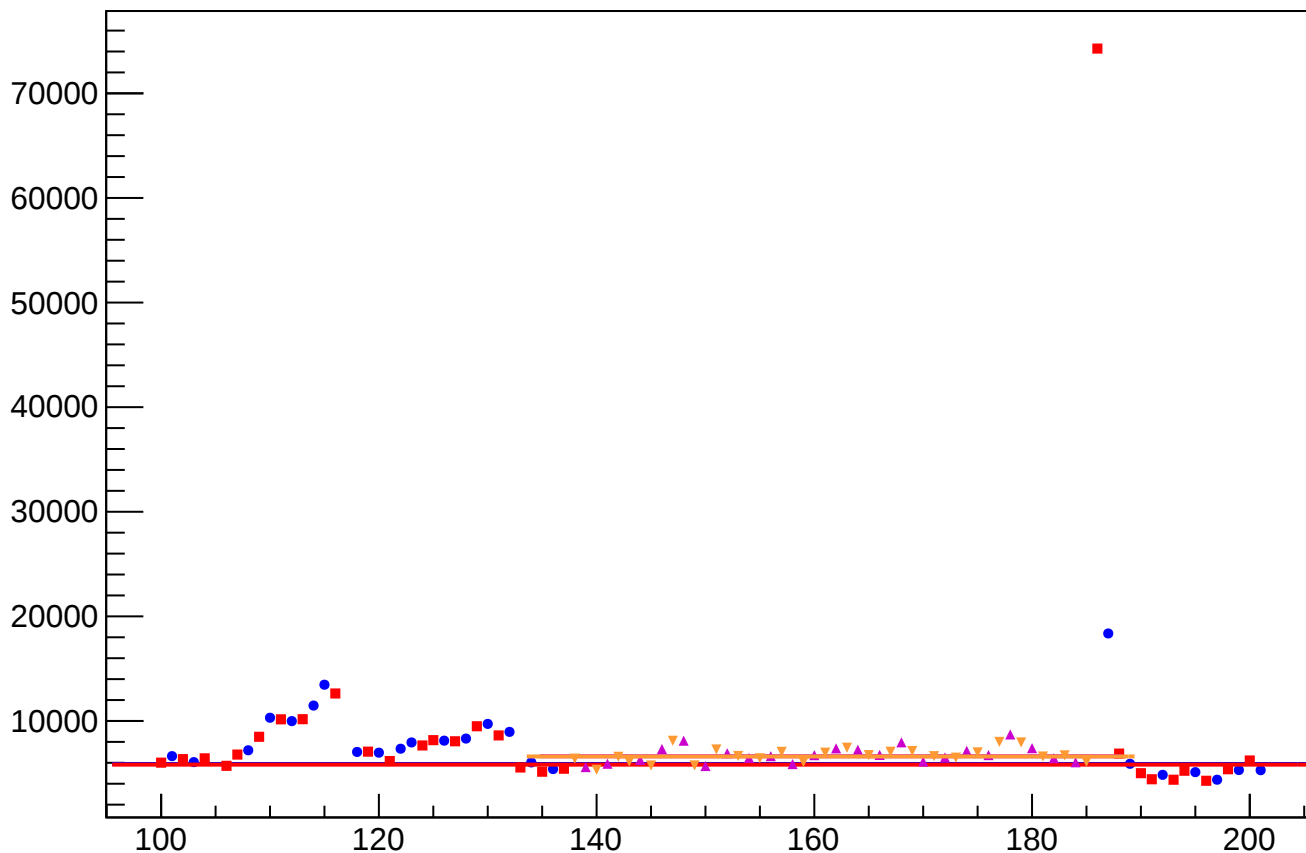
Right: -0.479 ± 1.241 χ^2/NDF : 52.7/51

In: -0.143 ± 1.200 χ^2/NDF : 59.5/46

Out: 0.746 ± 1.145 χ^2/NDF : 49.1/52

All: 0.322 ± 0.828 χ^2/NDF : 108.8/99

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5887.254+/-1.283 χ^2/NDF : 1425467.8/23

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5826.181+/-1.202 χ^2/NDF : 2114988.8/27

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

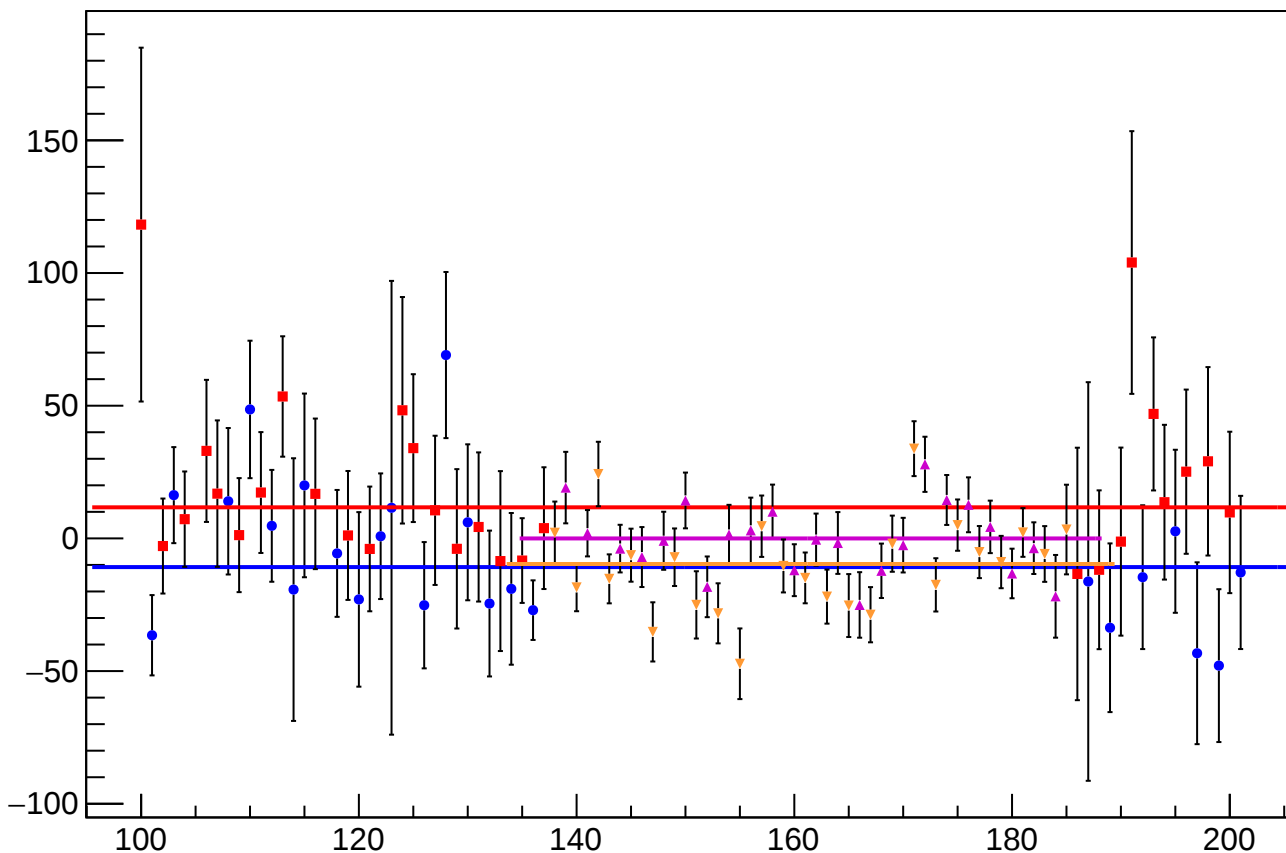
Right: 5854.718+/-0.877 χ^2/NDF : 3541663.2/51

In: 6304.606+/-0.848 χ^2/NDF : 2043653.8/46

Out: 6252.406+/-0.810 χ^2/NDF : 2743855.9/52

All: 6277.297+/-0.586 χ^2/NDF : 4789490.3/99

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -10.812 $\pm$ 5.026 χ^2/NDF : 26.0/23

Left Out: -9.649 $\pm$ 2.118 χ^2/NDF : 59.8/24

Right Out: 11.706 $\pm$ 4.989 χ^2/NDF : 18.5/27

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

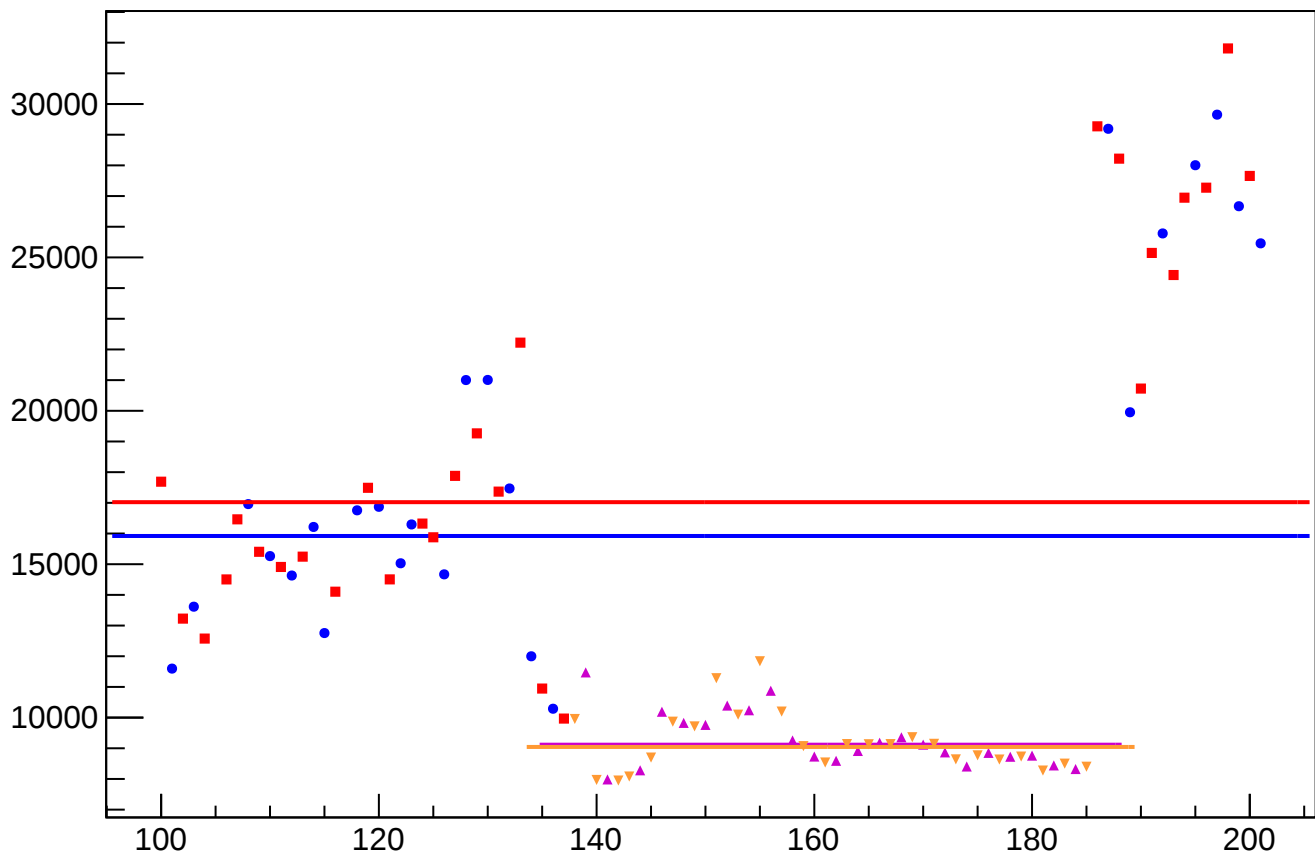
Right: 0.529 $\pm$ 3.541 χ^2/NDF : 54.6/51

In: -1.744 $\pm$ 2.009 χ^2/NDF : 60.5/46

Out: -6.388 $\pm$ 1.950 χ^2/NDF : 93.8/52

All: -4.136 $\pm$ 1.399 χ^2/NDF : 157.1/99

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 15919.965 $\pm$ 3.554 χ^2 /NDF: 2383749.3/23

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF:328192.2/24

Right Out: 17022.122 $\pm$ 3.528 χ^2 /NDF: 2522677.3/27

Left In: 9116.921 $\pm$ 1.550 χ^2 /NDF:277594.8/22

Left: 9078.947 $\pm$ 1.077 χ^2 /NDF: 606947.8/47

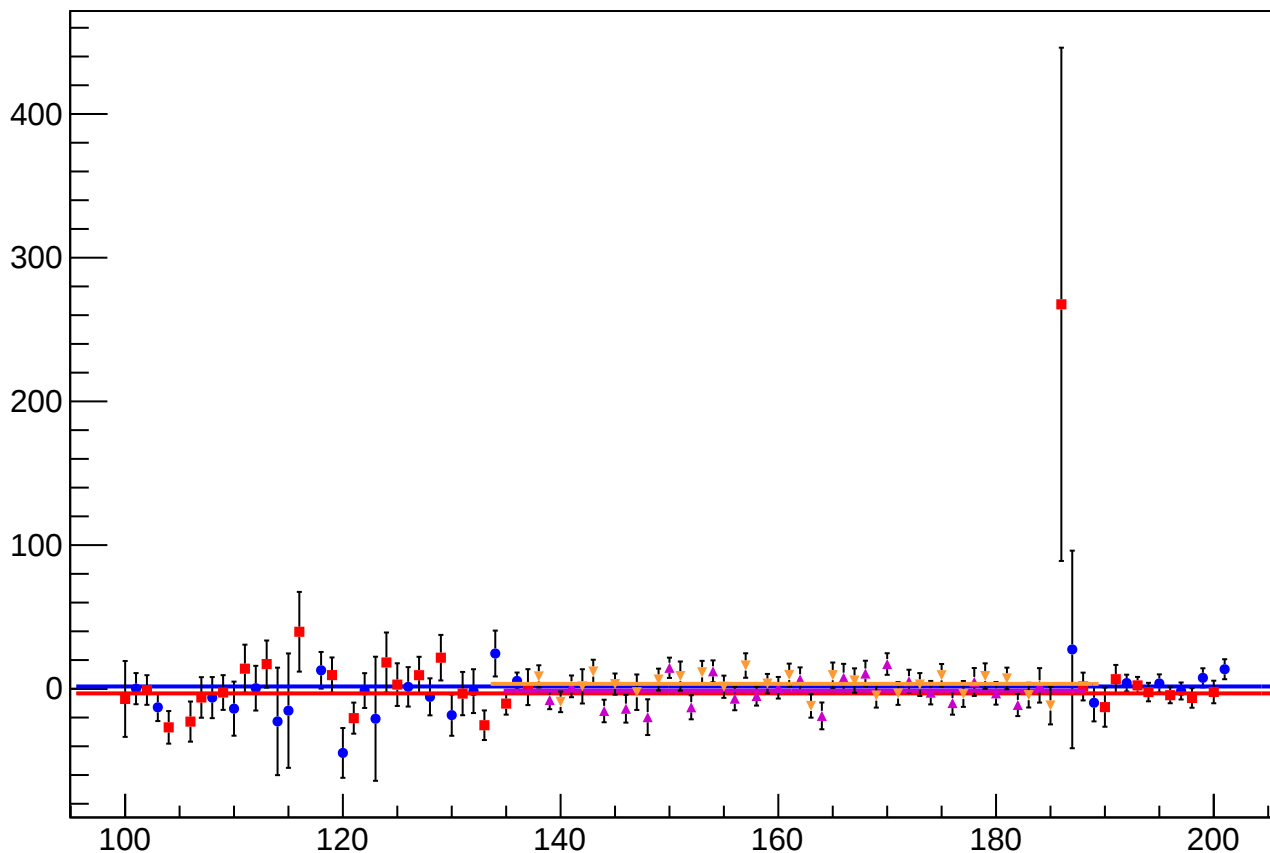
Right: 16475.060 $\pm$ 2.504 χ^2 /NDF: 4954866.3/51

In: 10204.142 $\pm$ 1.421 χ^2 /NDF:5740078.6/46

Out: 10261.907 $\pm$ 1.379 χ^2 /NDF:7184087.2/52

All: 10233.892 $\pm$ 0.989 χ^2 /NDF: 12925017.1

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.627 ± 2.059 χ^2/NDF : 22.2/23

Left Out: 3.439 ± 1.666 χ^2/NDF : 18.9/24

Right Out: -3.189 ± 1.952 χ^2/NDF : 30.5/27

Left In: -1.291 ± 1.701 χ^2/NDF : 36.5/22

Left: 1.123 ± 1.190 χ^2/NDF : 59.4/47

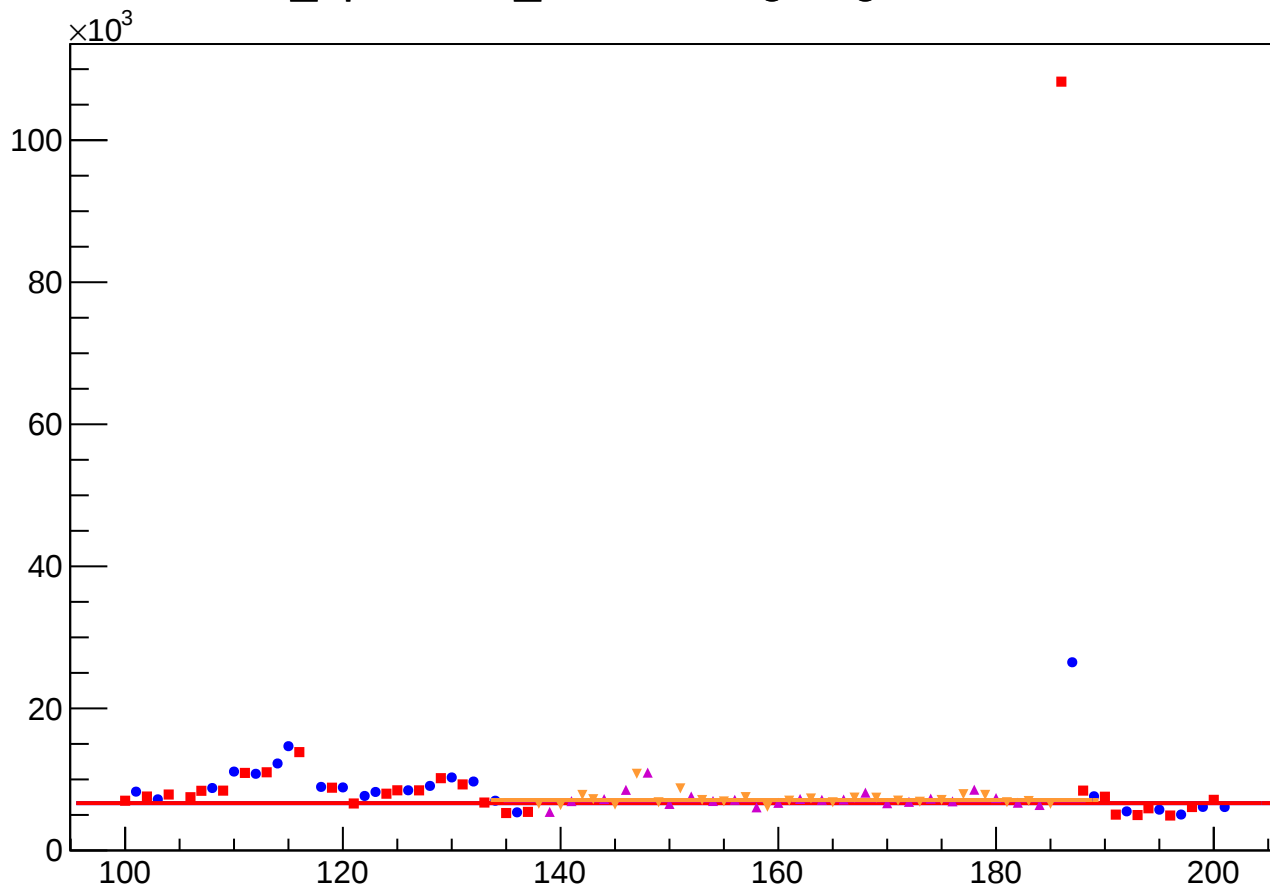
Right: -0.908 ± 1.417 χ^2/NDF : 55.6/51

In: -0.107 ± 1.311 χ^2/NDF : 59.9/46

Out: 0.647 ± 1.267 χ^2/NDF : 56.1/52

All: 0.283 ± 0.911 χ^2/NDF : 116.2/99

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6659.267 $\pm$ 1.456 χ^2/NDF : 1470990.6/23

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6664.544 $\pm$ 1.381 χ^2/NDF : 2084143.3/27

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

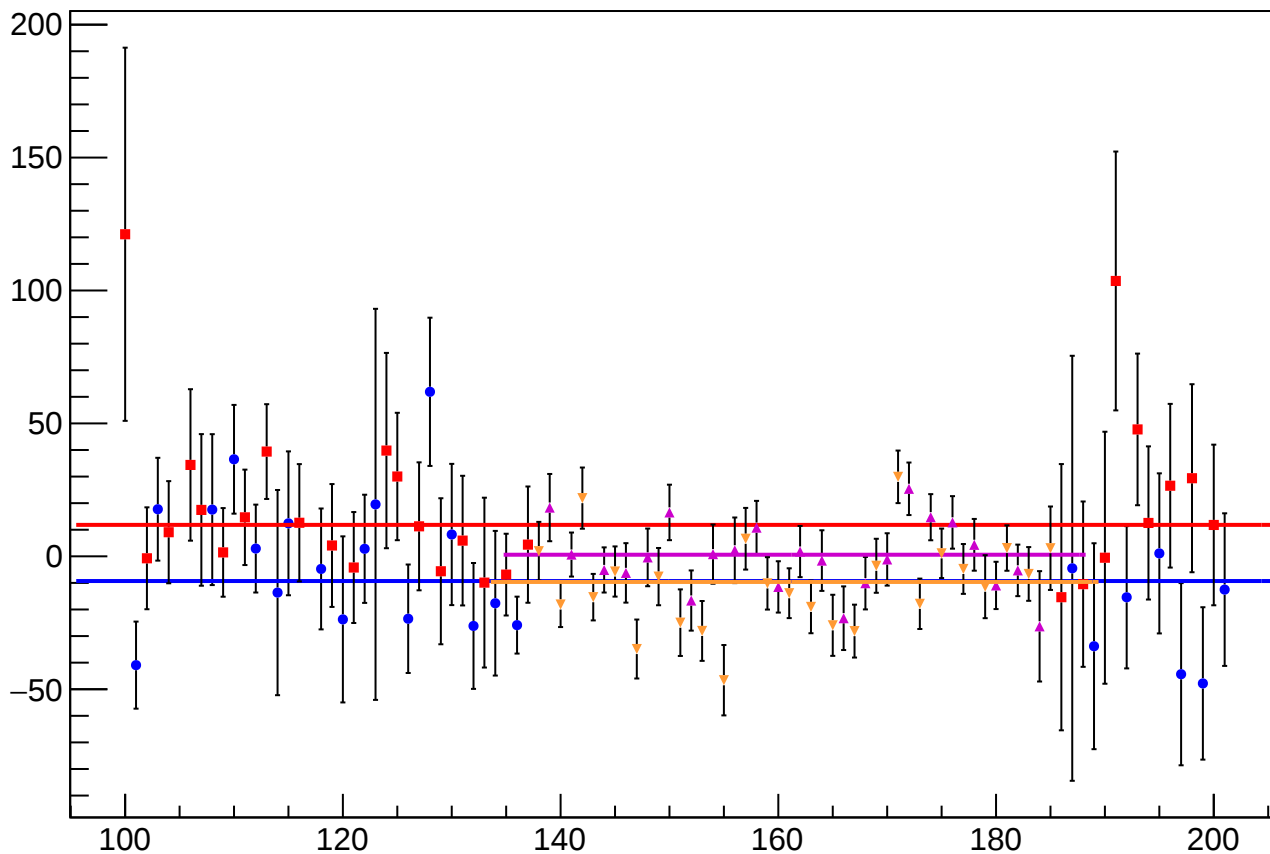
Right: 6662.045 $\pm$ 1.002 χ^2/NDF : 3555140.9/51

In: 6881.795 $\pm$ 0.927 χ^2/NDF : 2051347.8/46

Out: 6915.779 $\pm$ 0.896 χ^2/NDF : 2523924.9/52

All: 6899.365 $\pm$ 0.644 χ^2/NDF : 4575967.3/99

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -9.294 ± 4.722 $\chi^2/\text{NDF}: 27.4/23$

Left Out: -9.640 ± 2.057 $\chi^2/\text{NDF}: 57.6/24$

Right Out: 11.831 ± 4.644 $\chi^2/\text{NDF}: 17.2/27$

Left In: 0.599 ± 2.135 $\chi^2/\text{NDF}: 29.7/22$

Left: -4.710 ± 1.481 $\chi^2/\text{NDF}: 99.2/47$

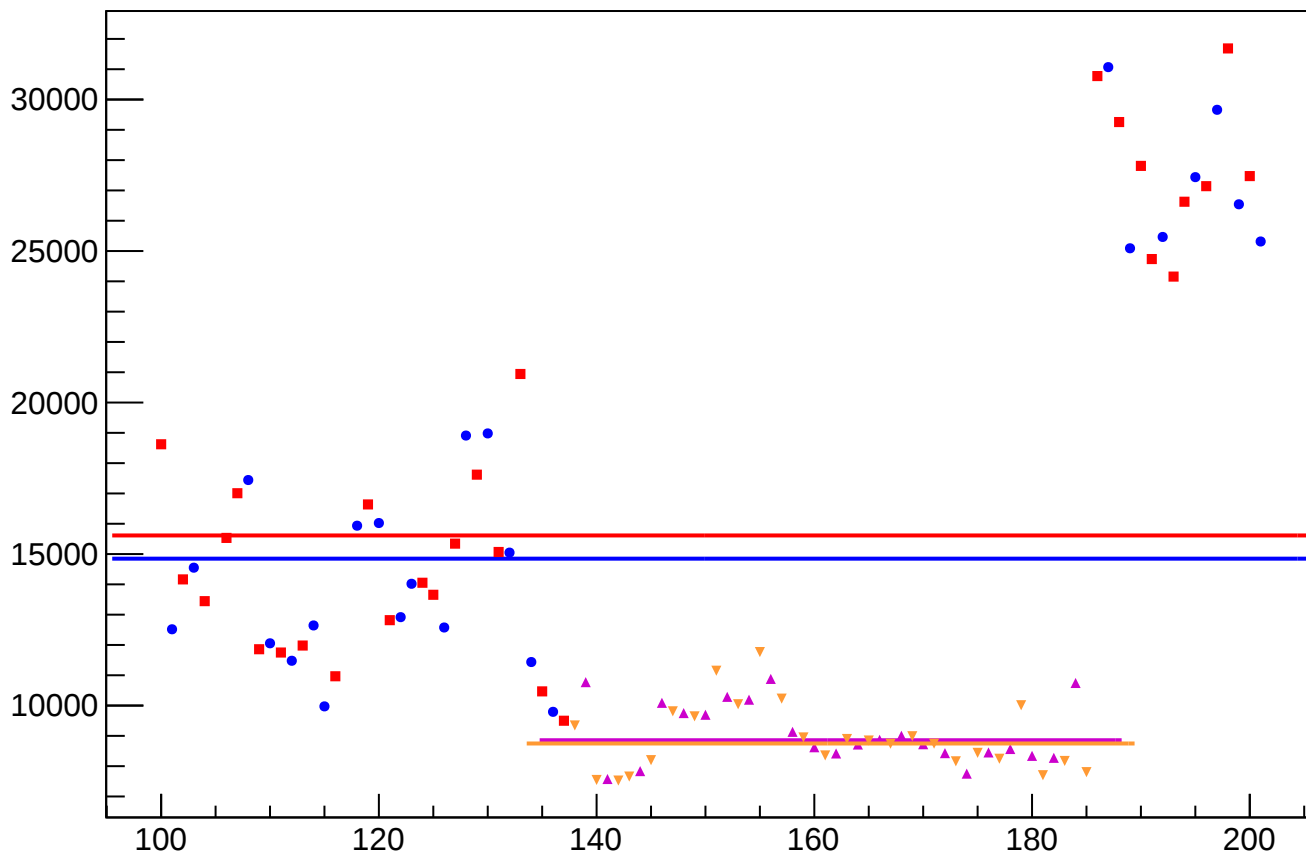
Right: 1.443 ± 3.311 $\chi^2/\text{NDF}: 54.8/51$

In: -1.080 ± 1.945 $\chi^2/\text{NDF}: 60.7/46$

Out: -6.118 ± 1.881 $\chi^2/\text{NDF}: 92.7/52$

All: -3.684 ± 1.352 $\chi^2/\text{NDF}: 156.9/99$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 14848.067 $\pm$ 3.339 χ^2 /NDF: 2727449.4/23

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF:463394.1/24

Right Out: 15613.975 $\pm$ 3.284 χ^2 /NDF: 3160001.4/27

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

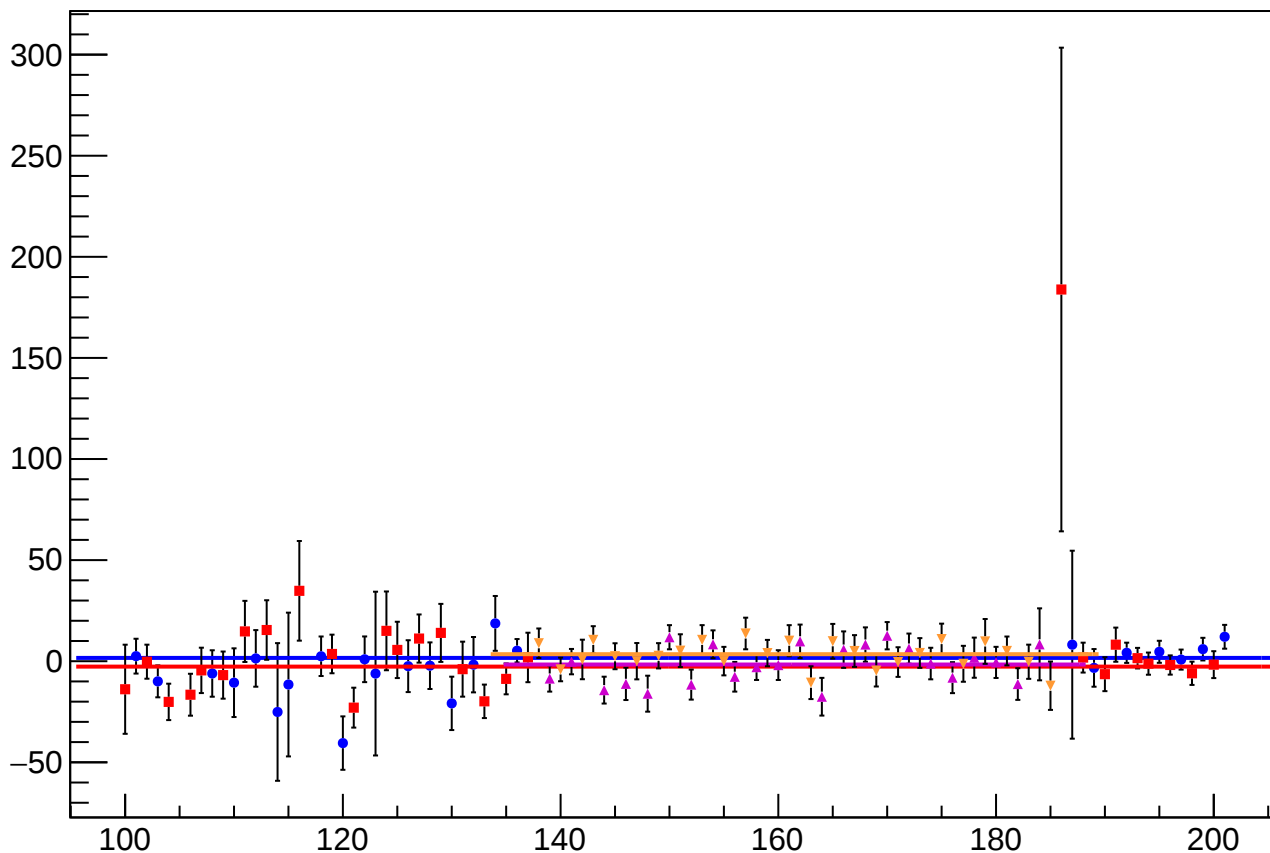
Right: 15237.361 $\pm$ 2.341 χ^2 /NDF: 5914200.1/51

In: 9872.885 $\pm$ 1.376 χ^2 /NDF:5769686.2/46

Out: 9874.691 $\pm$ 1.330 χ^2 /NDF:7277451.2/52

All: 9873.819 $\pm$ 0.956 χ^2 /NDF: 13047138.3/99

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.635 ± 1.770 $\chi^2/\text{NDF}: 23.9/23$

Left Out: 3.473 ± 1.524 $\chi^2/\text{NDF}: 15.8/24$

Right Out: -2.670 ± 1.657 $\chi^2/\text{NDF}: 30.6/27$

Left In: -1.638 ± 1.578 $\chi^2/\text{NDF}: 33.7/22$

Left: 1.006 ± 1.096 $\chi^2/\text{NDF}: 54.9/47$

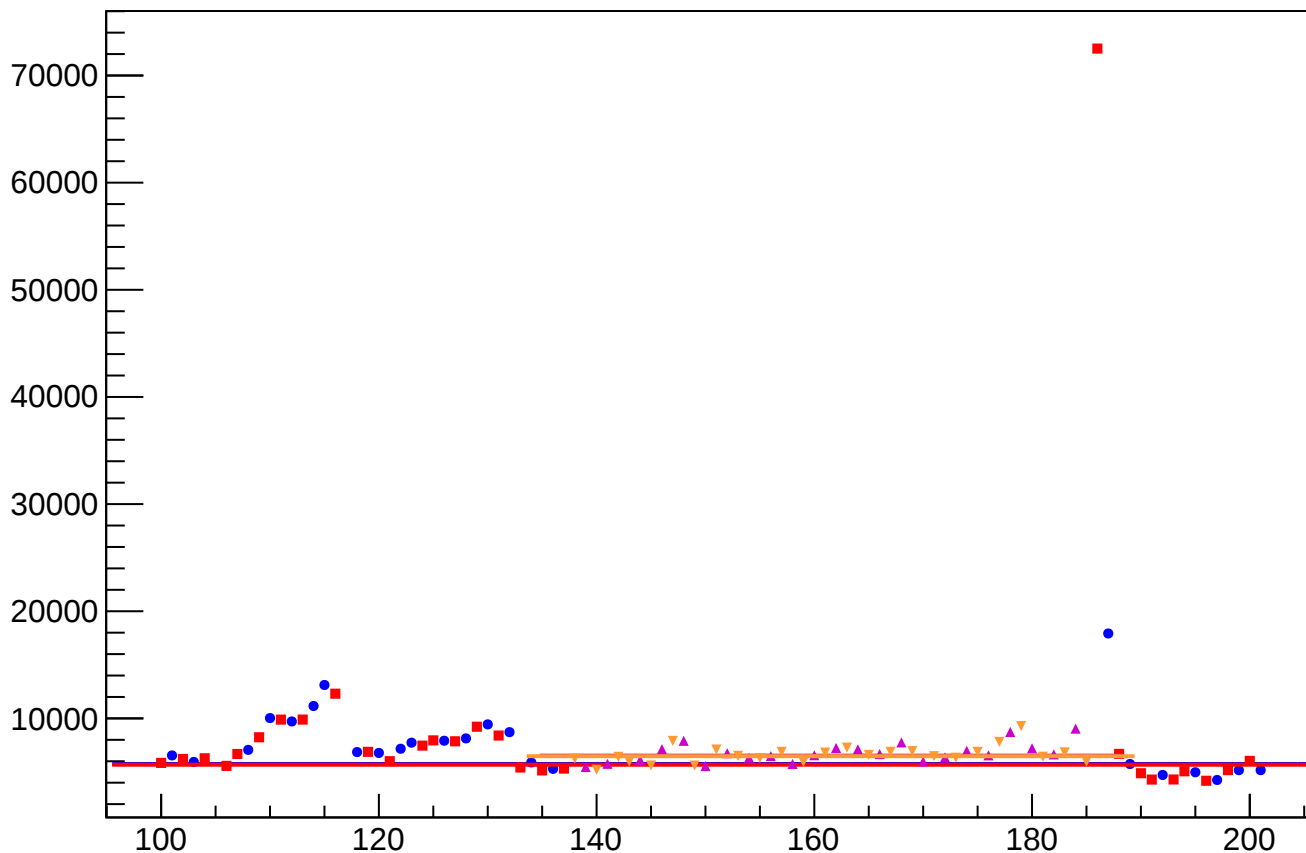
Right: -0.659 ± 1.210 $\chi^2/\text{NDF}: 57.6/51$

In: -0.189 ± 1.178 $\chi^2/\text{NDF}: 59.5/46$

Out: 0.658 ± 1.122 $\chi^2/\text{NDF}: 53.8/52$

All: 0.255 ± 0.812 $\chi^2/\text{NDF}: 113.6/99$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5738.221+/-1.252 χ^2/NDF : 1433888.2/23

Left Out: 6471.976+/-1.078 χ^2/NDF : 490282.9/24

Right Out: 5678.349+/-1.172 χ^2/NDF : 2105288.6/27

Left In: 6521.975+/-1.116 χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

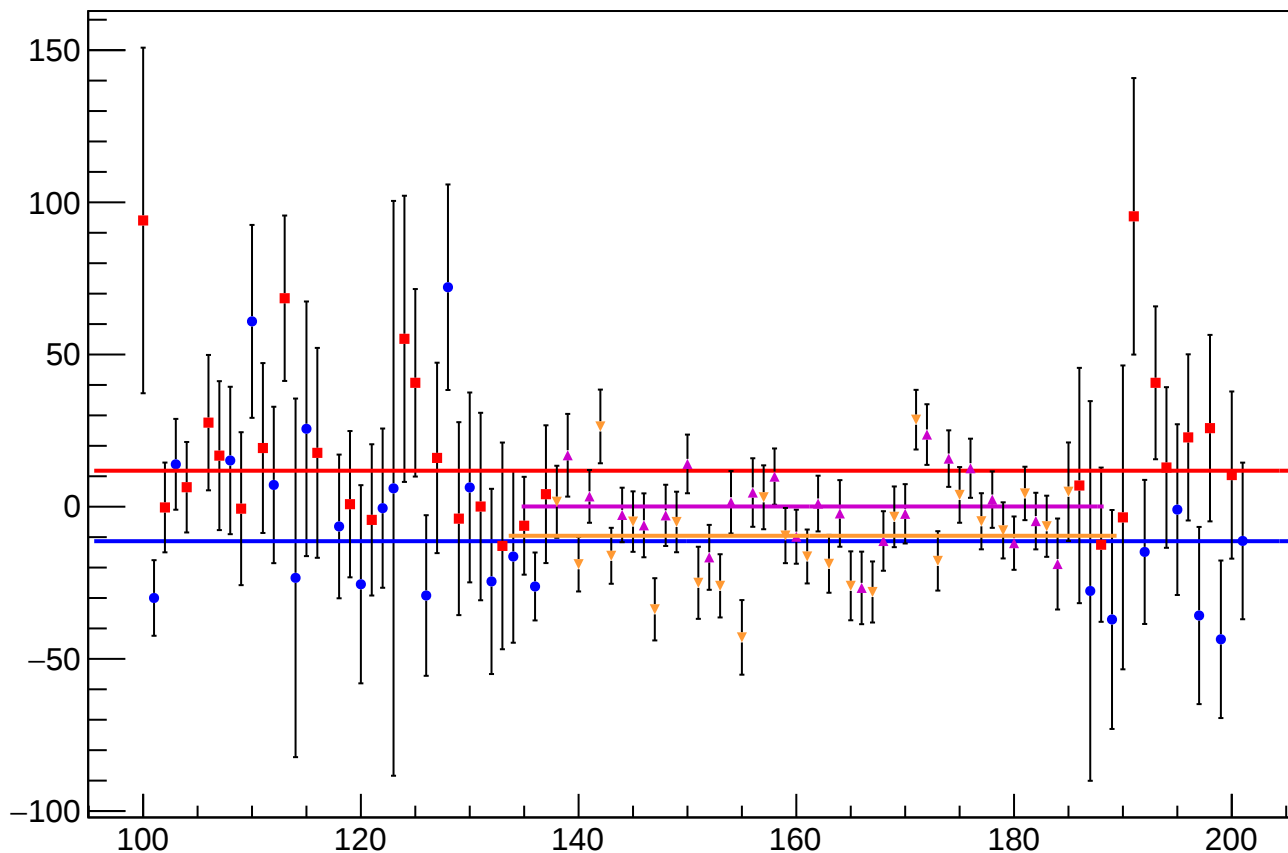
Right: 5706.316+/-0.855 χ^2/NDF : 3540396.0/51

In: 6174.959+/-0.833 χ^2/NDF : 2132403.3/46

Out: 6108.283+/-0.793 χ^2/NDF : 2844022.4/52

All: 6140.000+/-0.574 χ^2/NDF : 4979785.9/99

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -11.333 +/- 4.861 χ^2/NDF : 25.2/23

Left Out: -9.554 +/- 2.012 χ^2/NDF : 59.5/24

Right Out: 11.822 +/- 4.841 χ^2/NDF : 18.9/27

Left In: 0.072 +/- 2.073 χ^2/NDF : 29.8/22

Left: -4.885 +/- 1.444 χ^2/NDF : 100.5/47

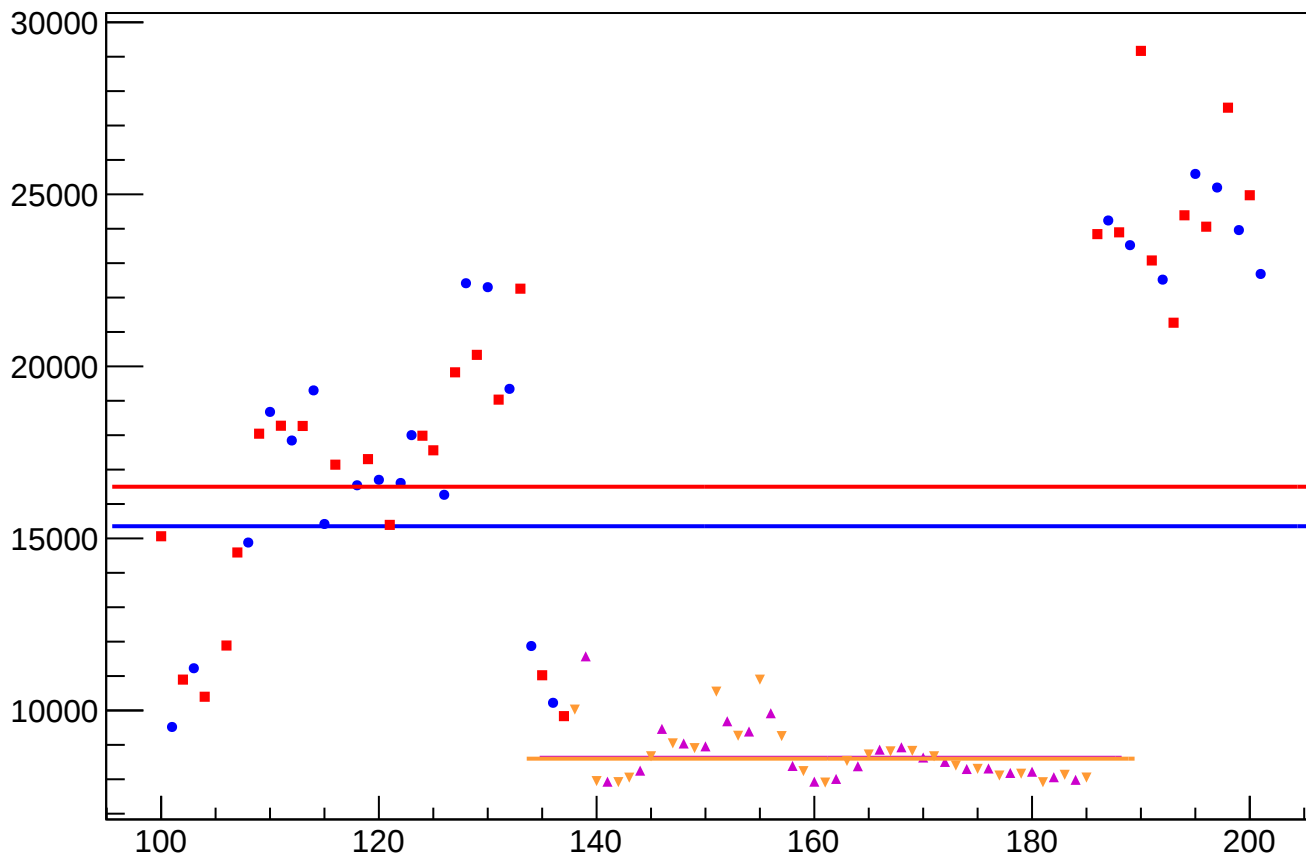
Right: 0.292 +/- 3.430 χ^2/NDF : 55.5/51

In: -1.683 +/- 1.907 χ^2/NDF : 59.6/46

Out: -6.406 +/- 1.858 χ^2/NDF : 95.1/52

All: -4.106 +/- 1.331 χ^2/NDF : 157.9/99

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15354.254+/-3.437 χ^2/NDF : 2542172.0/23

Left Out: 8598.983+/-1.423 χ^2/NDF : 249070.5/24

Right Out: 16502.442+/-3.423 χ^2/NDF : 2555818.8/27

Left In: 8625.233+/-1.466 χ^2/NDF : 237310.9/22

Left: 8611.717+/-1.021 χ^2/NDF : 486546.6/47

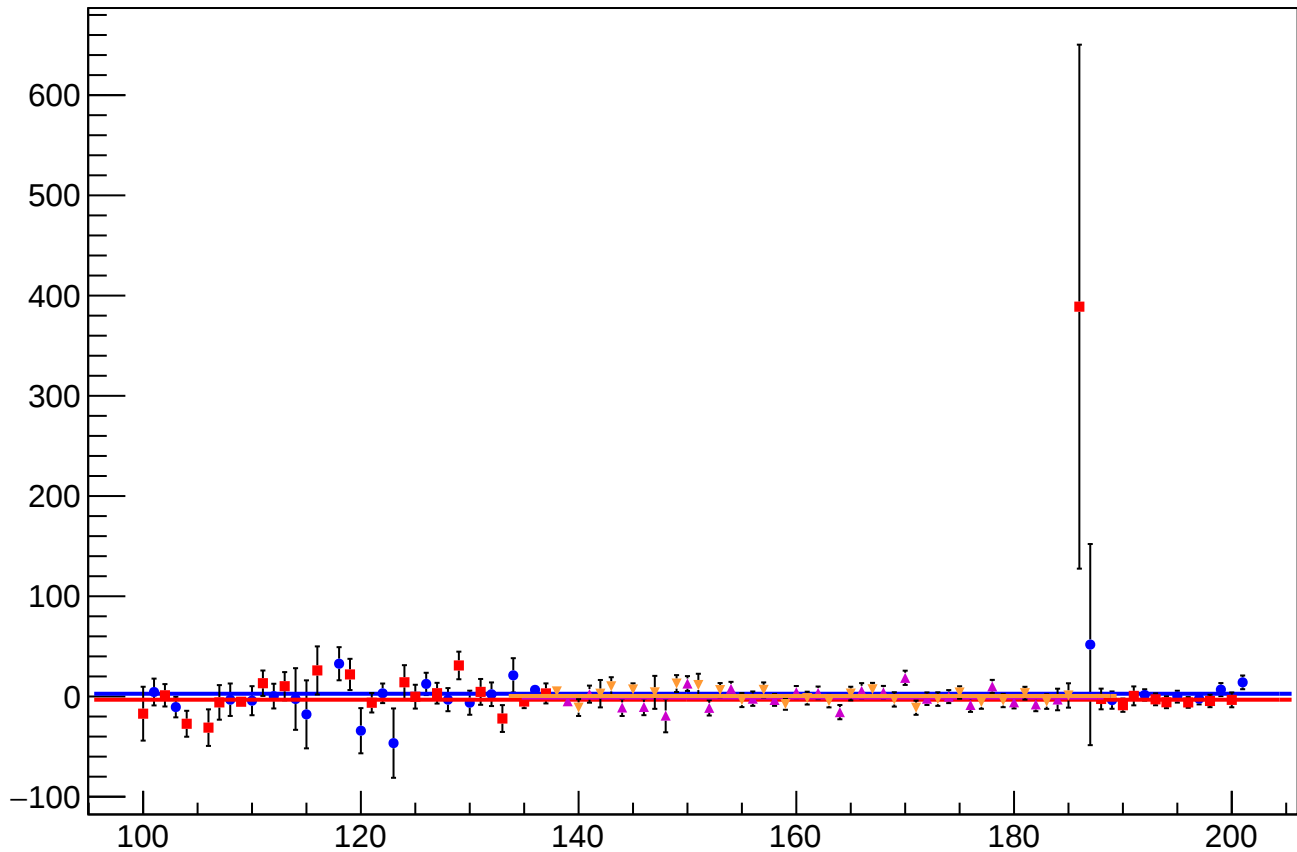
Right: 15930.693+/-2.425 χ^2/NDF : 5154020.2/51

In: 9660.605+/-1.348 χ^2/NDF : 6022817.2/46

Out: 9762.964+/-1.314 χ^2/NDF : 7351003.8/52

All: 9713.113+/-0.941 χ^2/NDF : 13376778.0/99

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.728 ± 1.892 $\chi^2/\text{NDF}: 18.9/23$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -3.214 ± 1.698 $\chi^2/\text{NDF}: 27.3/27$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

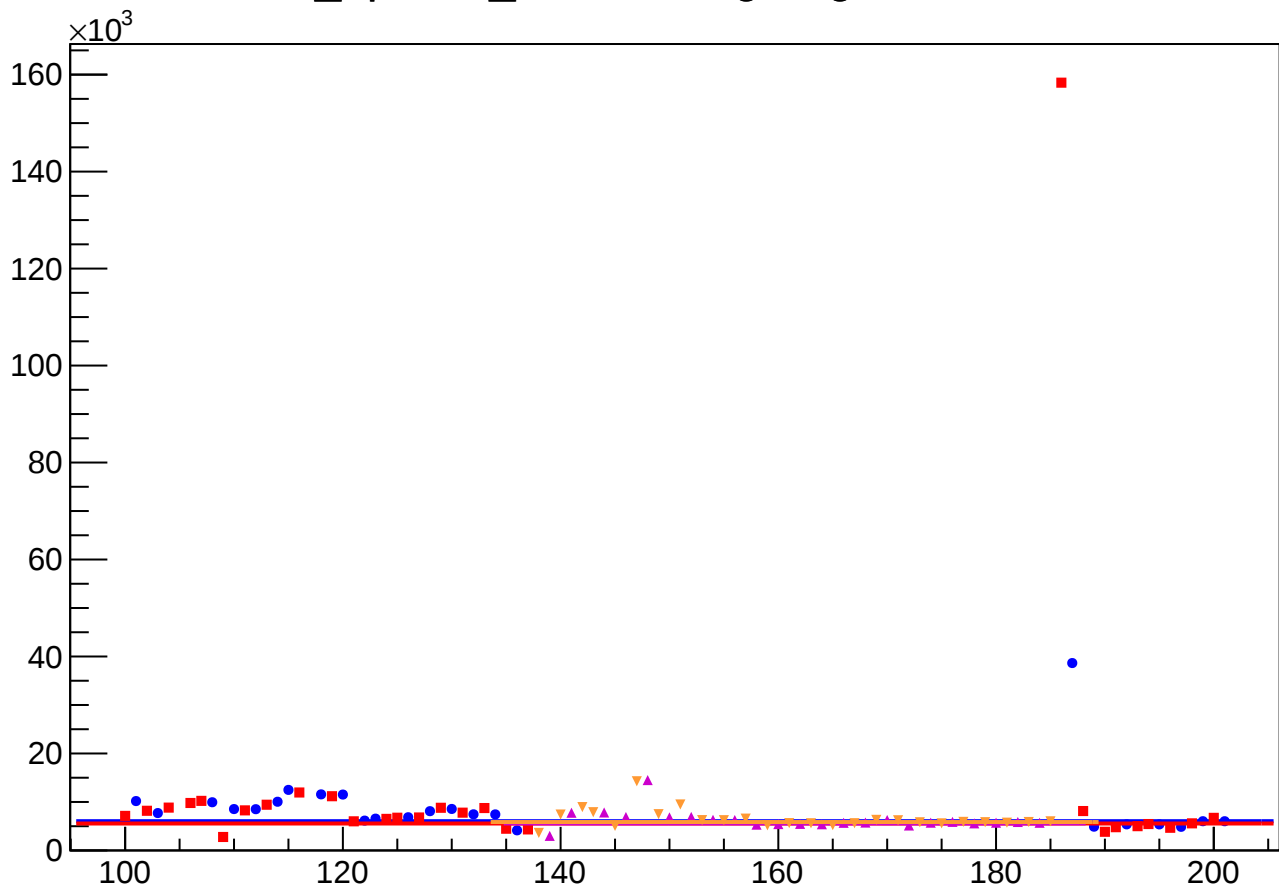
Right: -0.562 ± 1.264 $\chi^2/\text{NDF}: 51.7/51$

In: 0.282 ± 1.123 $\chi^2/\text{NDF}: 54.1/46$

Out: -1.009 ± 1.088 $\chi^2/\text{NDF}: 49.6/52$

All: -0.384 ± 0.781 $\chi^2/\text{NDF}: 104.3/99$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6036.994 ± 1.338 $\chi^2/\text{NDF}: 1886278.7/23$

Left Out: 5860.605 ± 1.002 $\chi^2/\text{NDF}: 1690049.2/24$

Right Out: 5557.757 ± 1.201 $\chi^2/\text{NDF}: 3385338.6/27$

Left In: 5571.330 ± 0.987 $\chi^2/\text{NDF}: 2162788.3/22$

Left: 5713.698 ± 0.703 $\chi^2/\text{NDF}: 3895130.2/47$

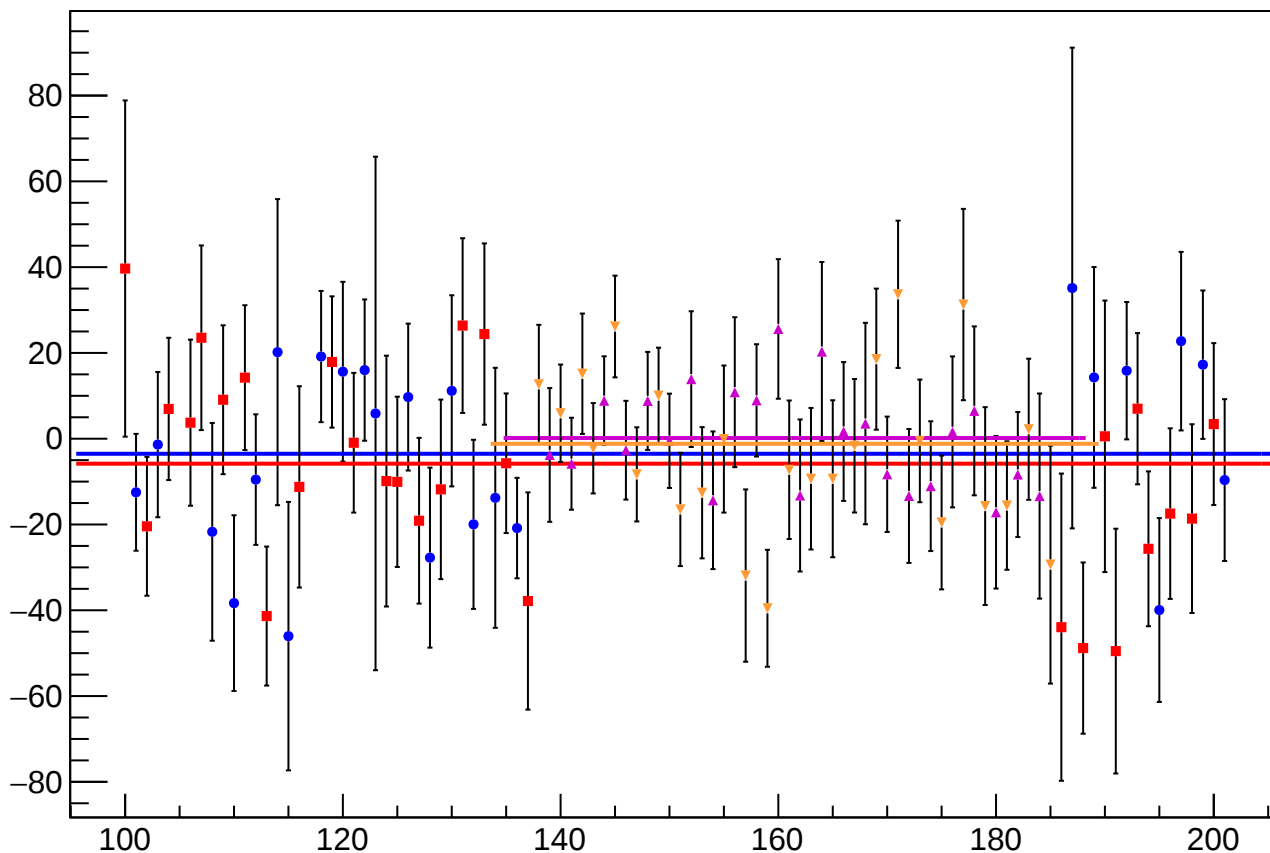
Right: 5771.621 ± 0.894 $\chi^2/\text{NDF}: 5342706.9/51$

In: 5735.461 ± 0.794 $\chi^2/\text{NDF}: 4127555.6/46$

Out: 5736.222 ± 0.770 $\chi^2/\text{NDF}: 5112876.0/52$

All: 5735.854 ± 0.553 $\chi^2/\text{NDF}: 9240432.2/99$

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.512 ± 3.938 $\chi^2/\text{NDF}: 24.6/23$

Left Out: -1.182 ± 2.939 $\chi^2/\text{NDF}: 33.7/24$

Right Out: -5.823 ± 3.746 $\chi^2/\text{NDF}: 31.9/27$

Left In: 0.157 ± 3.058 $\chi^2/\text{NDF}: 11.5/22$

Left: -0.539 ± 2.119 $\chi^2/\text{NDF}: 45.3/47$

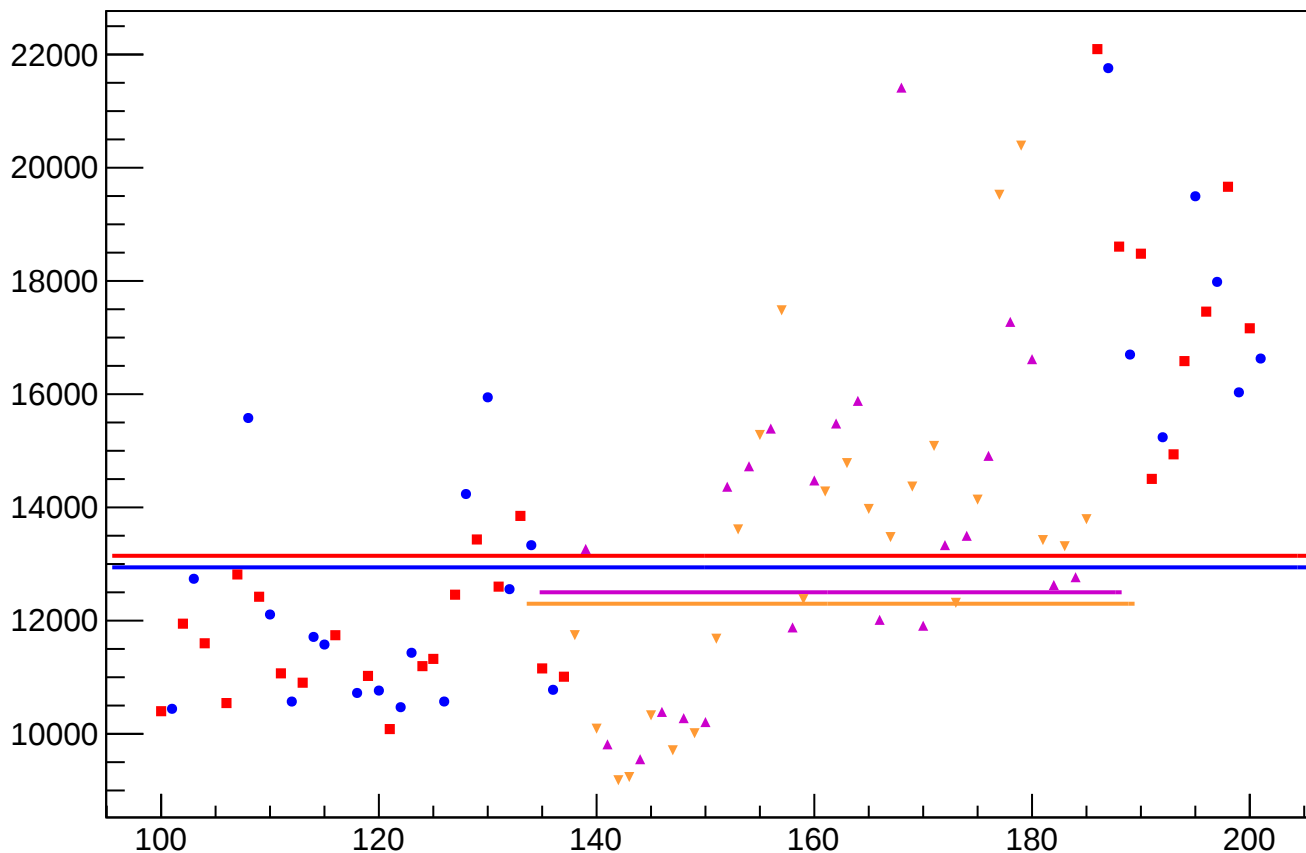
Right: -4.725 ± 2.714 $\chi^2/\text{NDF}: 56.7/51$

In: -1.223 ± 2.415 $\chi^2/\text{NDF}: 36.6/46$

Out: -2.951 ± 2.312 $\chi^2/\text{NDF}: 66.6/52$

All: -2.125 ± 1.670 $\chi^2/\text{NDF}: 103.5/99$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 12941.231 ± 2.785

χ^2/NDF : 986799.7/23

Left: 12395.720 ± 1.498 χ^2/NDF : 2868458.0/47

Right: 13048.394 ± 1.919 χ^2/NDF : 2118463.7/51

Left Out: 12298.676 ± 2.078

χ^2/NDF : 1506026.8/24

In: 12666.458 ± 1.708 χ^2/NDF : 2360293.5/46

Out: 12621.270 ± 1.635 χ^2/NDF : 2698117.4/52

Right Out: 13145.331 ± 2.649

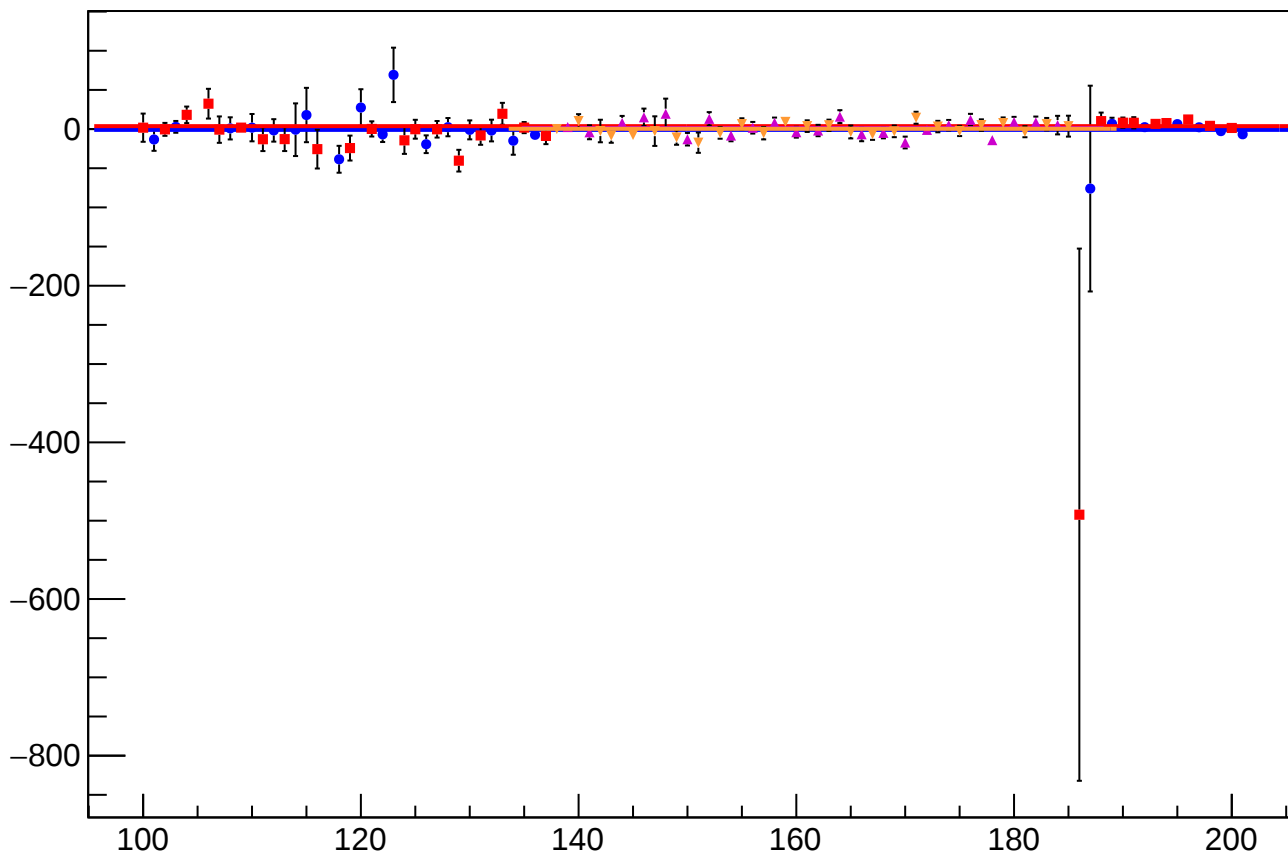
χ^2/NDF : 1128843.8/27

Left In: 12500.795 ± 2.162

χ^2/NDF : 1357889.1/22

All: 12642.878 ± 1.181 χ^2/NDF : 5058776.2/9

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -1.032 ± 1.699 $\chi^2/\text{NDF}: 22.8/23$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: 3.736 ± 1.539 $\chi^2/\text{NDF}: 34.2/27$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

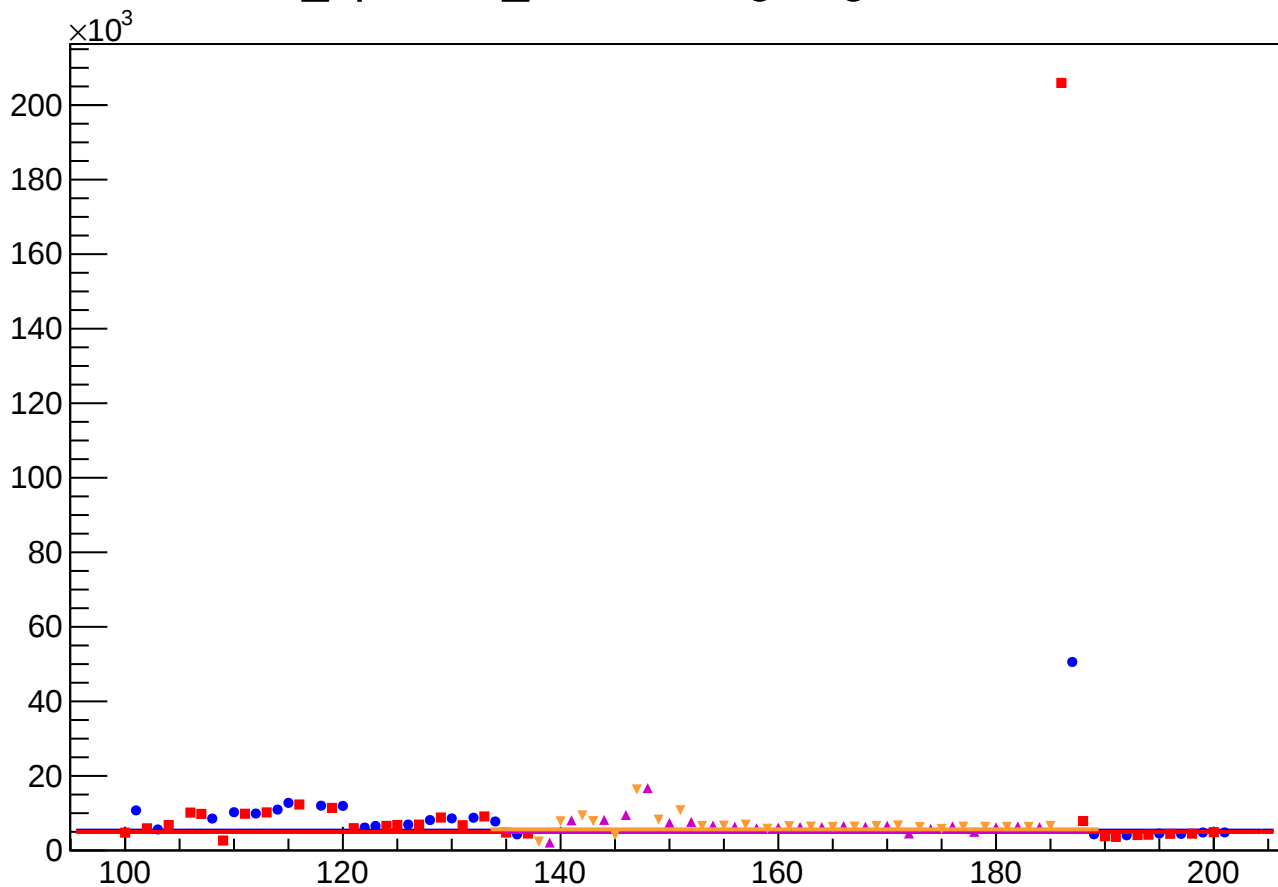
Right: 1.587 ± 1.141 $\chi^2/\text{NDF}: 61.3/51$

In: 0.298 ± 1.067 $\chi^2/\text{NDF}: 57.4/46$

Out: 1.924 ± 1.049 $\chi^2/\text{NDF}: 55.9/52$

All: 1.125 ± 0.748 $\chi^2/\text{NDF}: 114.5/99$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5320.621 $\pm$ 1.201

χ^2/NDF : 2521976.8/23

Left: 5387.078 $\pm$ 0.701

χ^2/NDF : 9762498.7/47

Left Out: 5659.441 $\pm$ 1.014

χ^2/NDF : 4128583.6/24

Right: 5123.033 $\pm$ 0.807

χ^2/NDF : 6064601.3/51

Right Out: 4960.806 $\pm$ 1.089

χ^2/NDF : 3493366.9/27

In: 5209.905 $\pm$ 0.755

χ^2/NDF : 8031612.6/46

Out: 5335.025 $\pm$ 0.742

χ^2/NDF : 7842572.0/52

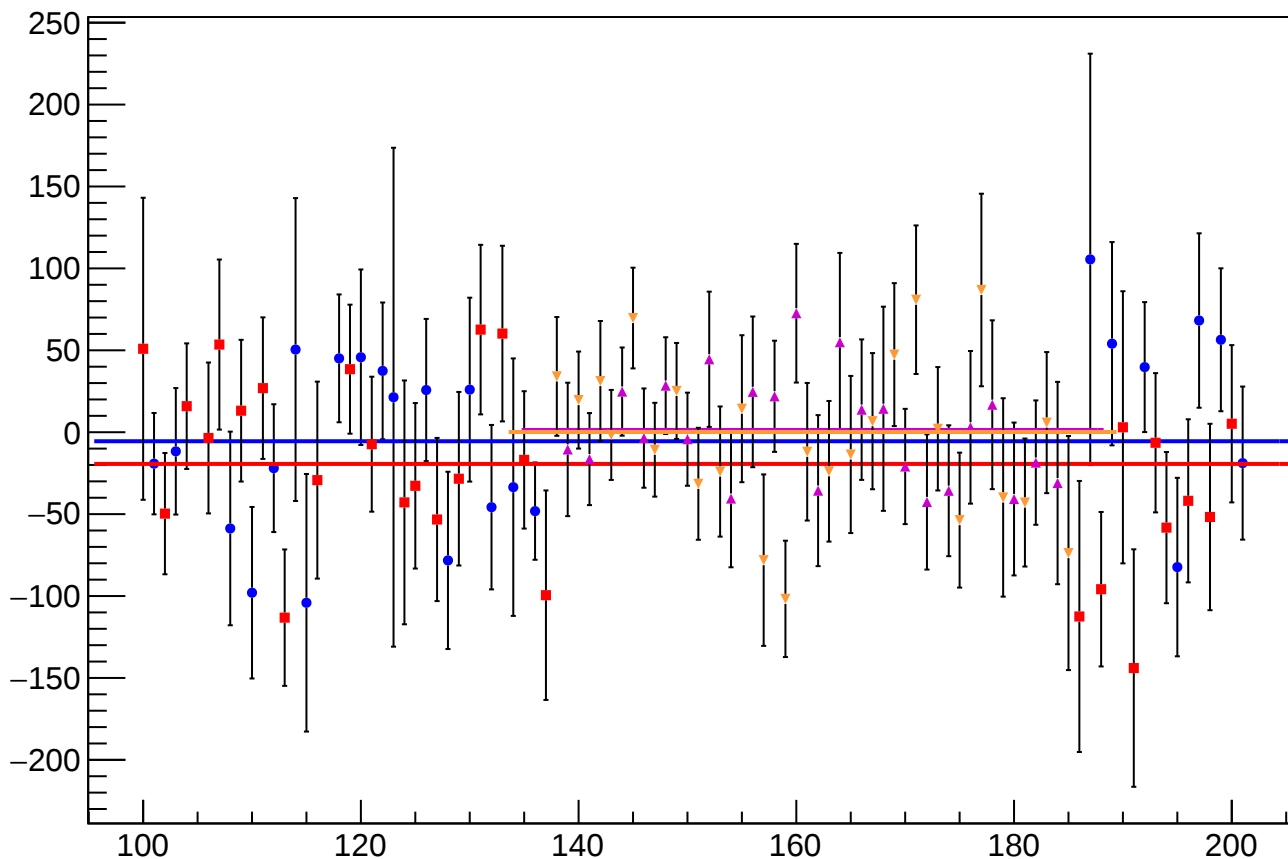
Left In: 5137.772 $\pm$ 0.970

χ^2/NDF : 5495609.7/22

All: 5273.533 $\pm$ 0.529

χ^2/NDF : 15888166.6/9

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -5.505 ± 9.787 χ^2/NDF : 24.4/23

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -19.354 ± 9.327 χ^2/NDF : 28.7/27

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

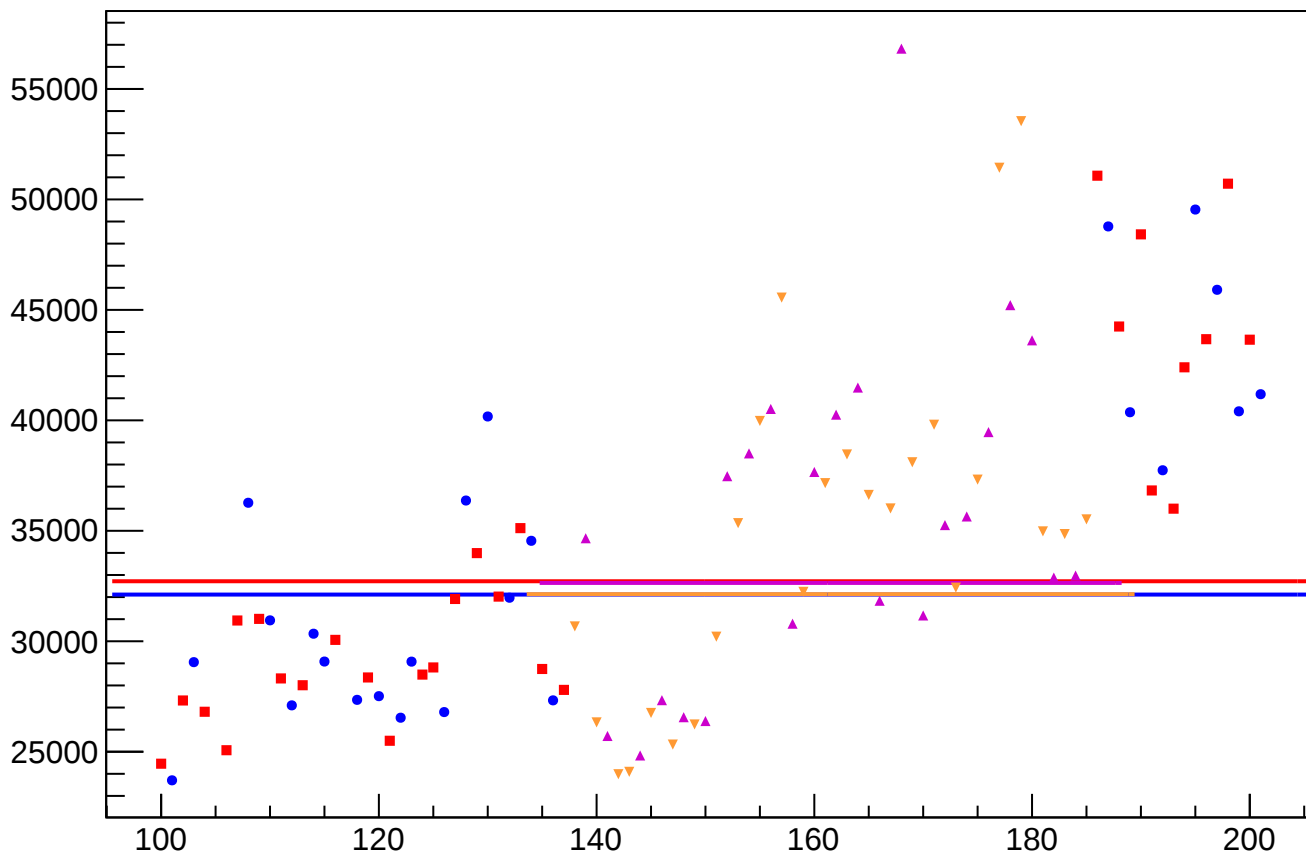
Right: -12.763 ± 6.752 χ^2/NDF : 54.2/51

In: -1.377 ± 6.189 χ^2/NDF : 38.0/46

Out: -7.740 ± 5.930 χ^2/NDF : 62.6/52

All: -4.694 ± 4.282 χ^2/NDF : 101.2/99

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 32113.538+/-6.921 χ^2/NDF : 1024145.8/23

Left Out: 32132.314+/-5.433 χ^2/NDF : 1540079.4/24

Right Out: 32716.537+/-6.595 χ^2/NDF : 1153801.7/27

Left In: 32641.162+/-5.650 χ^2/NDF : 1402162.4/22

Left: 32376.774+/-3.916 χ^2/NDF : 2946456.2/47

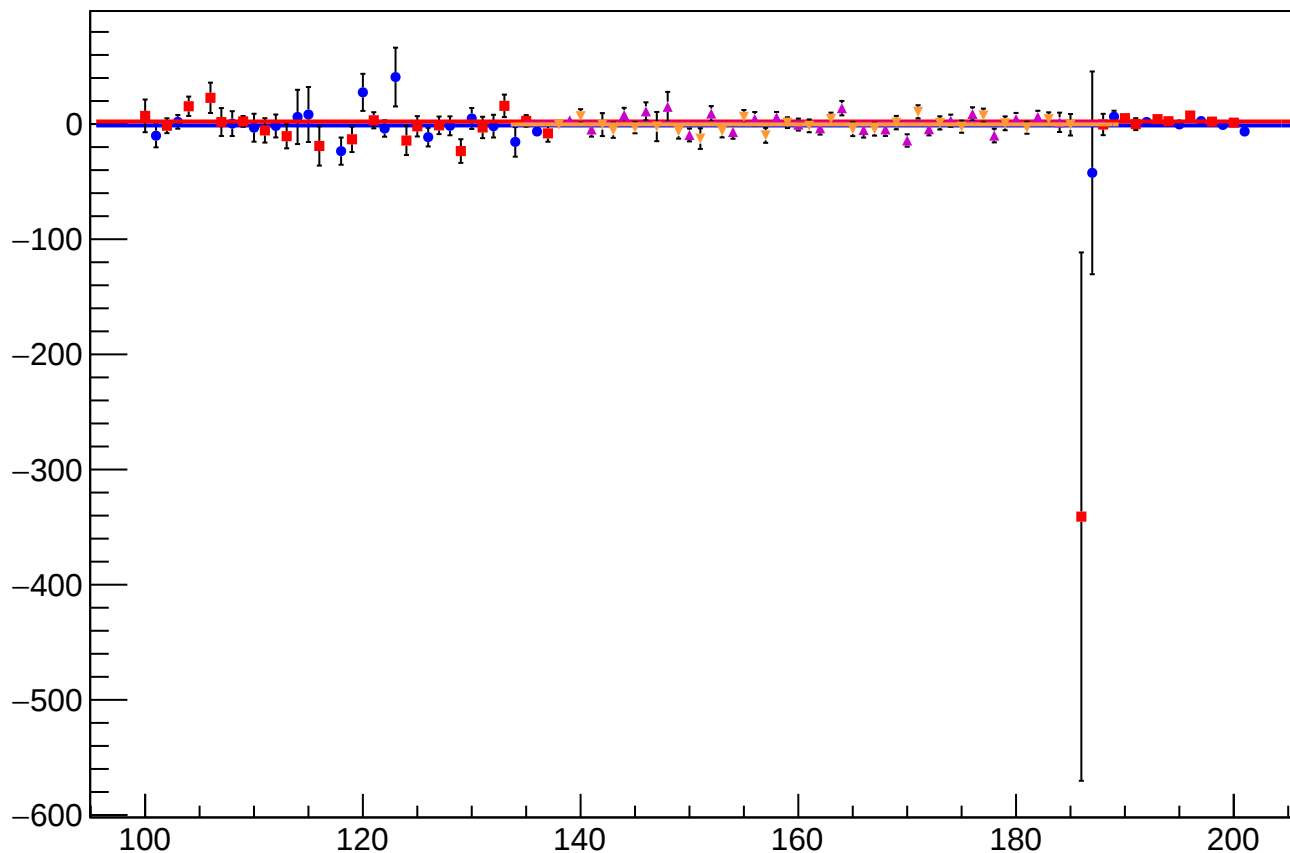
Right: 32429.559+/-4.774 χ^2/NDF : 2181926.4/51

In: 32430.138+/-4.377 χ^2/NDF : 2429796.1/46

Out: 32368.508+/-4.193 χ^2/NDF : 2698556.2/52

All: 32398.005+/-3.028 χ^2/NDF : 5128455.7/99

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -1.211 ± 1.174 χ^2/NDF : 23.4/23

Left Out: -0.312 ± 1.172 χ^2/NDF : 17.6/24

Right Out: 2.238 ± 1.112 χ^2/NDF : 29.6/27

Left In: 0.908 ± 1.142 χ^2/NDF : 36.2/22

Left: 0.313 ± 0.818 χ^2/NDF : 54.4/47

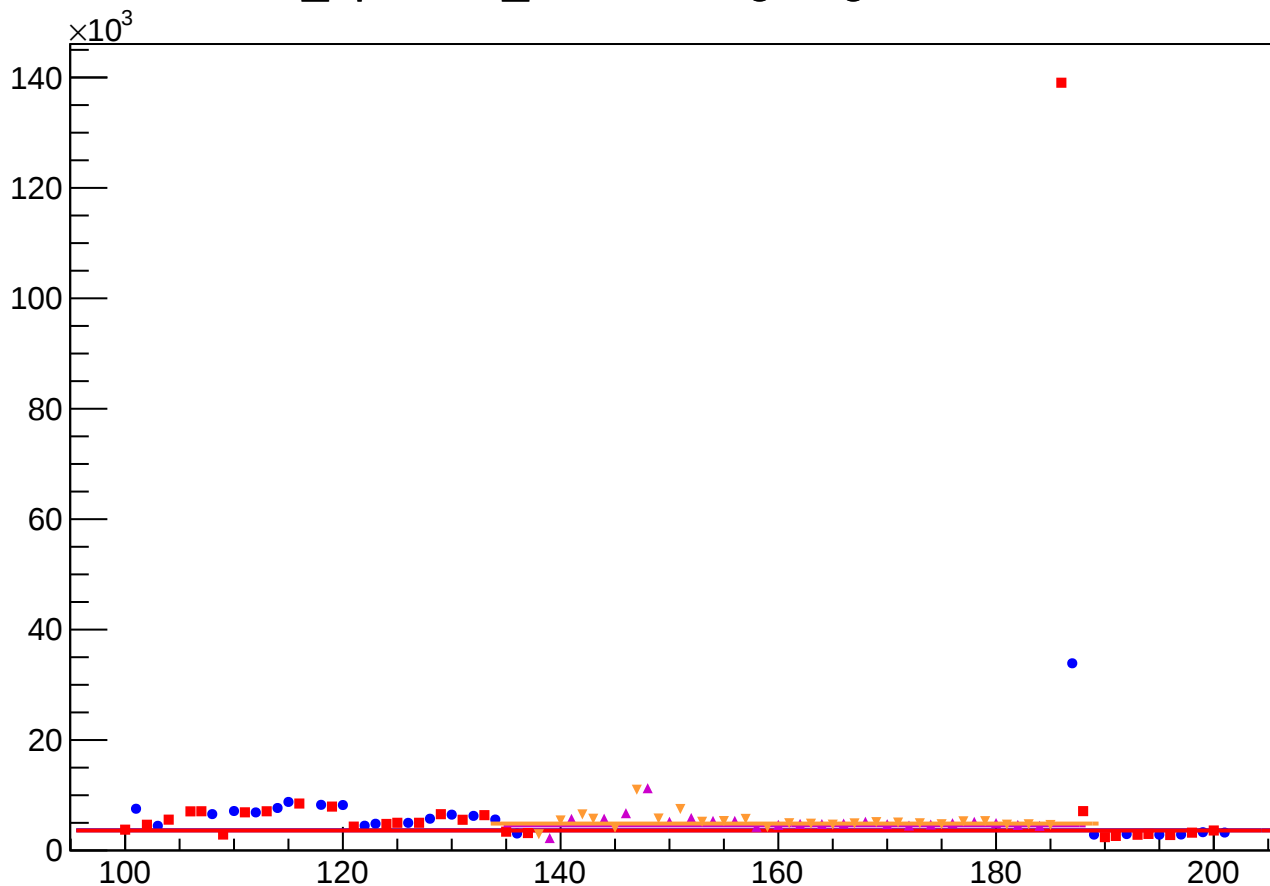
Right: 0.607 ± 0.807 χ^2/NDF : 57.5/51

In: -0.122 ± 0.819 χ^2/NDF : 61.2/46

Out: 1.030 ± 0.807 χ^2/NDF : 49.7/52

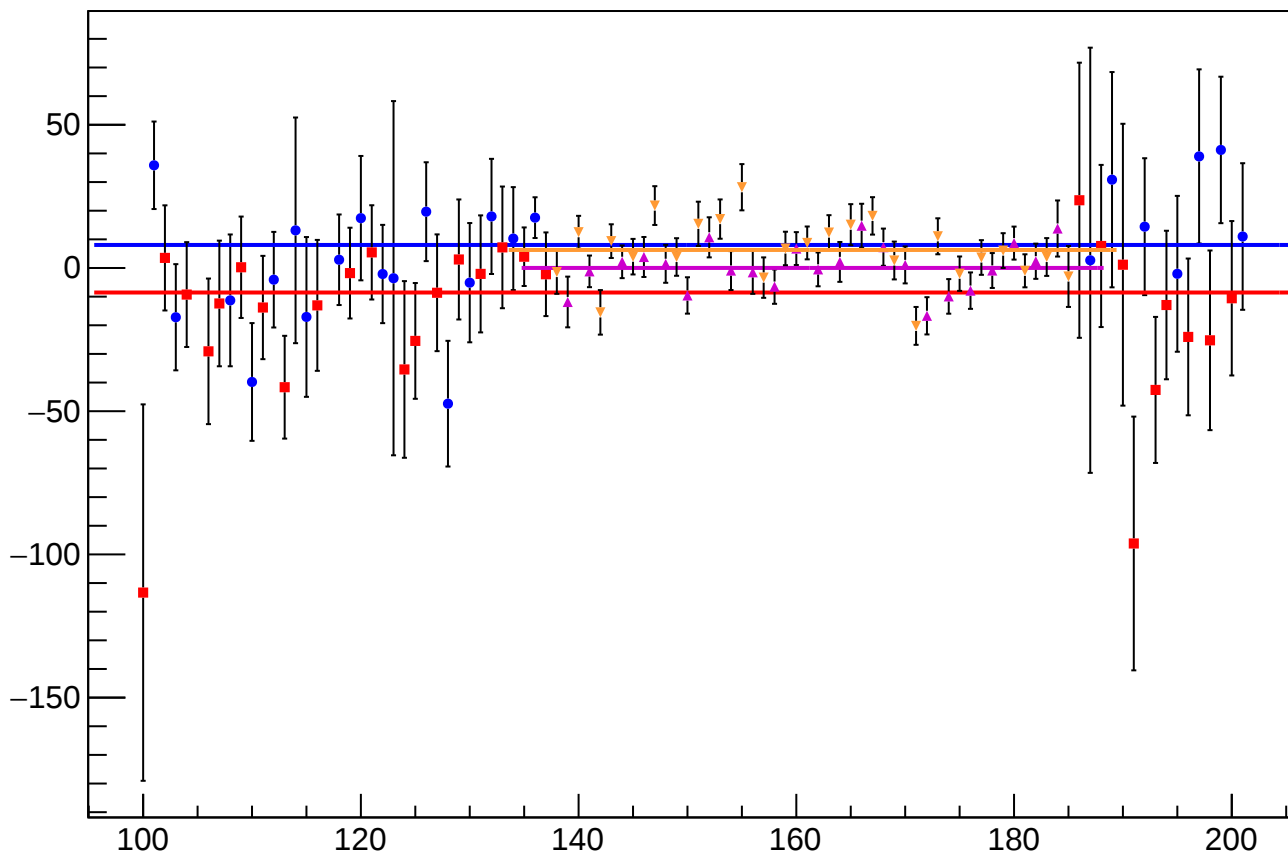
All: 0.462 ± 0.575 χ^2/NDF : 111.9/99

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3654.532 $\pm$ 0.830	χ^2/NDF : 2789390.6/23	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: 3634.445 $\pm$ 0.571	χ^2/NDF : 6323280.6/51
Right Out: 3616.415 $\pm$ 0.786	χ^2/NDF : 3532778.9/27	In: 4111.638 $\pm$ 0.579	χ^2/NDF : 6013955.6/46
Left In: 4544.337 $\pm$ 0.808	χ^2/NDF : 2634314.4/22	Out: 4209.906 $\pm$ 0.570	χ^2/NDF : 6245451.9/52
		All: 4161.497 $\pm$ 0.406	χ^2/NDF : 12274029.0/95

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 8.044 ± 3.836 χ^2/NDF : 25.9/23

Left Out: 6.296 ± 1.310 χ^2/NDF : 56.5/24

Right Out: -8.561 ± 3.917 χ^2/NDF : 19.6/27

Left In: 0.020 ± 1.353 χ^2/NDF : 29.9/22

Left: 3.259 ± 0.941 χ^2/NDF : 97.5/47

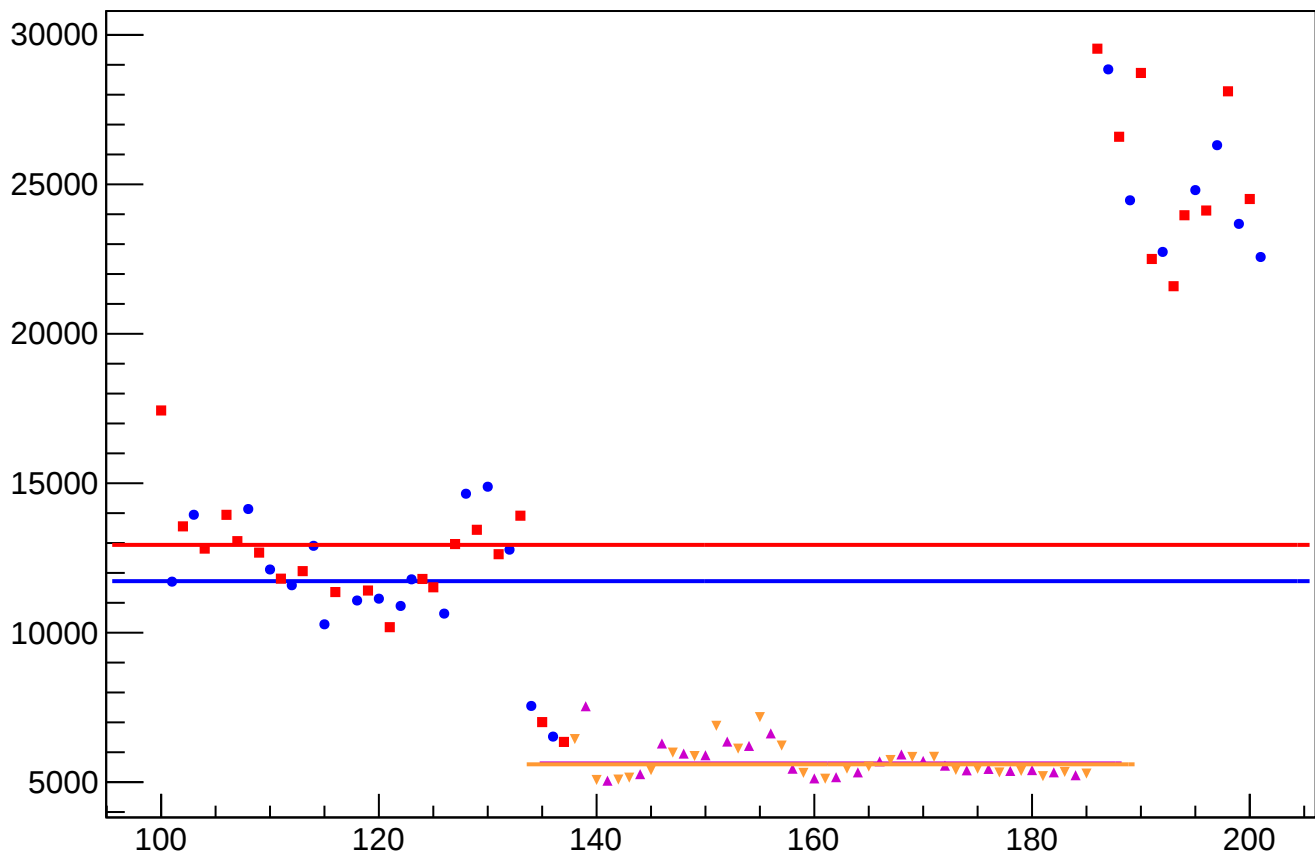
Right: -0.086 ± 2.741 χ^2/NDF : 54.7/51

In: 0.908 ± 1.276 χ^2/NDF : 59.7/46

Out: 4.801 ± 1.243 χ^2/NDF : 89.0/52

All: 2.906 ± 0.890 χ^2/NDF : 153.6/99

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 11724.621+/-2.713 χ^2/NDF : 3820570.4/23

Left Out: 5596.370+/-0.926 χ^2/NDF : 283998.1/24

Right Out: 12937.834+/-2.770 χ^2/NDF : 3977495.6/27

Left In: 5627.283+/-0.957 χ^2/NDF : 279318.7/22

Left: 5611.329+/-0.666 χ^2/NDF : 563855.6/47

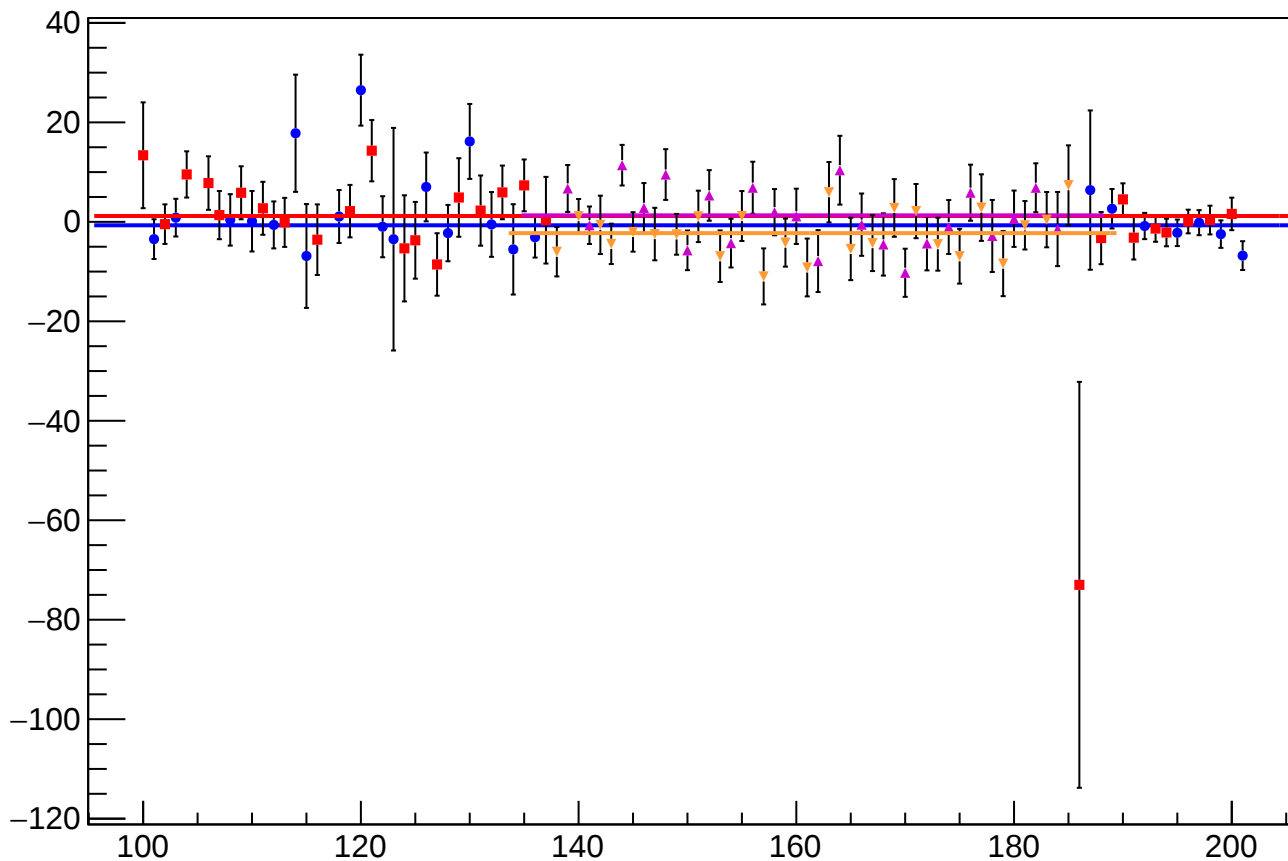
Right: 12318.614+/-1.938 χ^2/NDF : 7896006.6/51

In: 6301.933+/-0.902 χ^2/NDF : 8593551.2/46

Out: 6335.181+/-0.879 χ^2/NDF : 10580985.1/52

All: 6319.000+/-0.629 χ^2/NDF : 19175233.2/99

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.693 $\pm$ 0.889 χ^2/NDF : 31.2/23

Left Out: -2.268 $\pm$ 1.029 χ^2/NDF : 15.4/24

Right Out: 1.178 $\pm$ 0.843 χ^2/NDF : 26.5/27

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

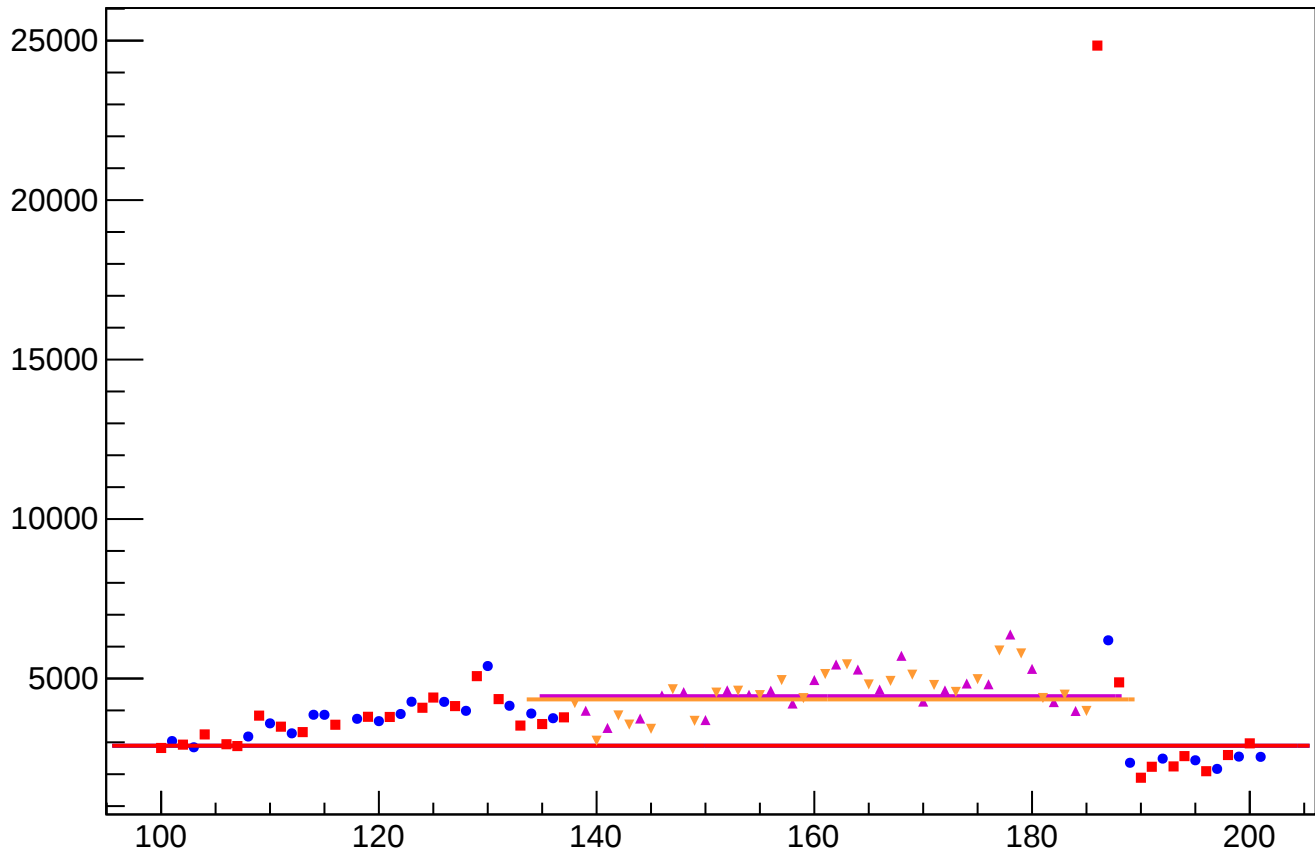
Right: 0.292 $\pm$ 0.612 χ^2/NDF : 60.0/51

In: 0.116 $\pm$ 0.686 χ^2/NDF : 64.1/46

Out: -0.205 $\pm$ 0.652 χ^2/NDF : 48.6/52

All: -0.053 $\pm$ 0.473 χ^2/NDF : 112.8/99

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2892.191+/-0.629

χ^2/NDF : 1227250.4/23

Left: 4393.504+/-0.526

χ^2/NDF : 1712588.4/47

Left Out: 4345.381+/-0.728

χ^2/NDF : 1000636.1/24

Right: 2893.262+/-0.433

χ^2/NDF : 3459937.3/51

Right Out: 2894.225+/-0.596

χ^2/NDF : 2232681.3/27

In: 3521.760+/-0.485

χ^2/NDF : 4406749.1/46

Out: 3476.864+/-0.461

χ^2/NDF : 5611925.0/52

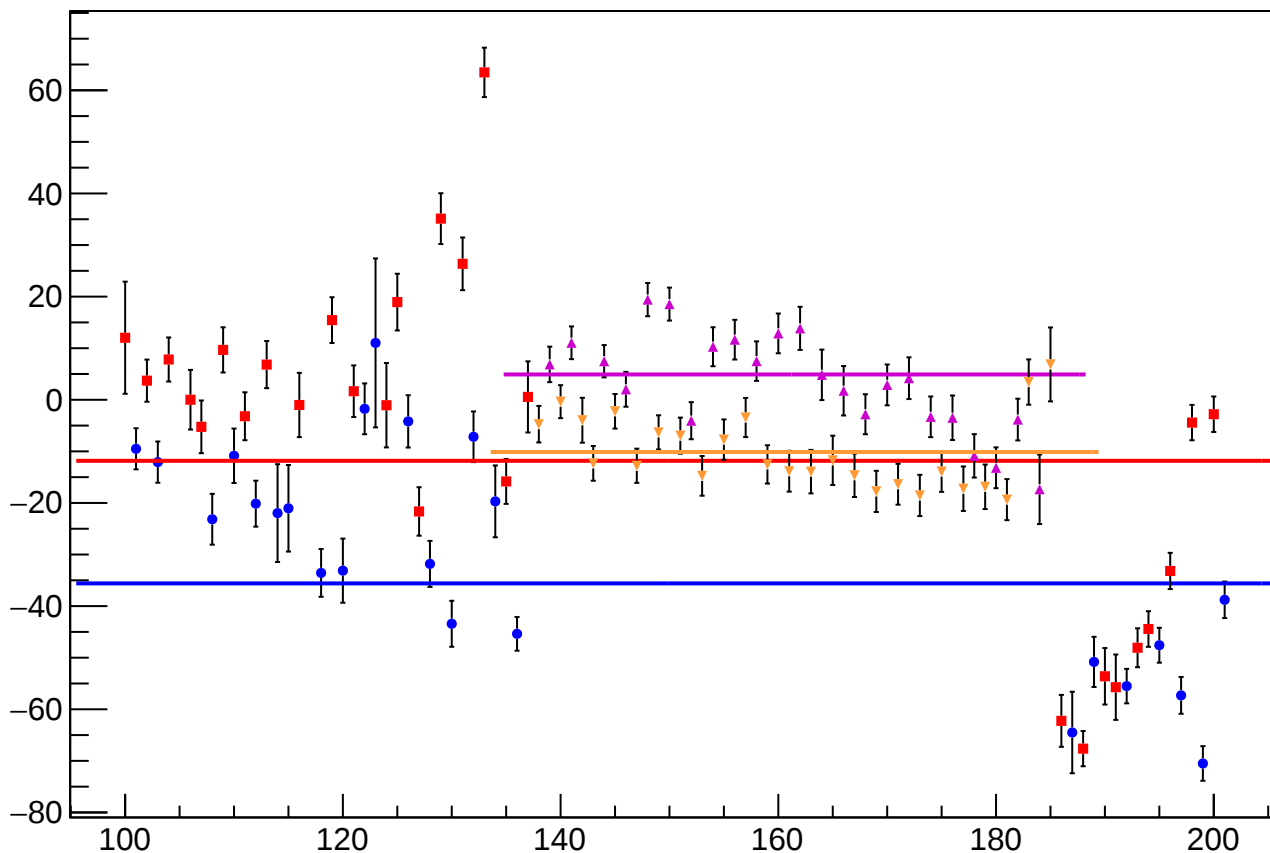
Left In: 4446.181+/-0.762

χ^2/NDF : 702797.6/22

All: 3498.197+/-0.334

χ^2/NDF : 10023176.0/9

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -35.595 ± 0.923 χ^2/NDF : 485.7/23

Left Out: -10.125 ± 0.775 χ^2/NDF : 67.9/24

Right Out: -11.828 ± 0.866 χ^2/NDF : 1278.0/27

Left In: 4.911 ± 0.797 χ^2/NDF : 127.9/22

Left: -2.814 ± 0.556 χ^2/NDF : 378.7/47

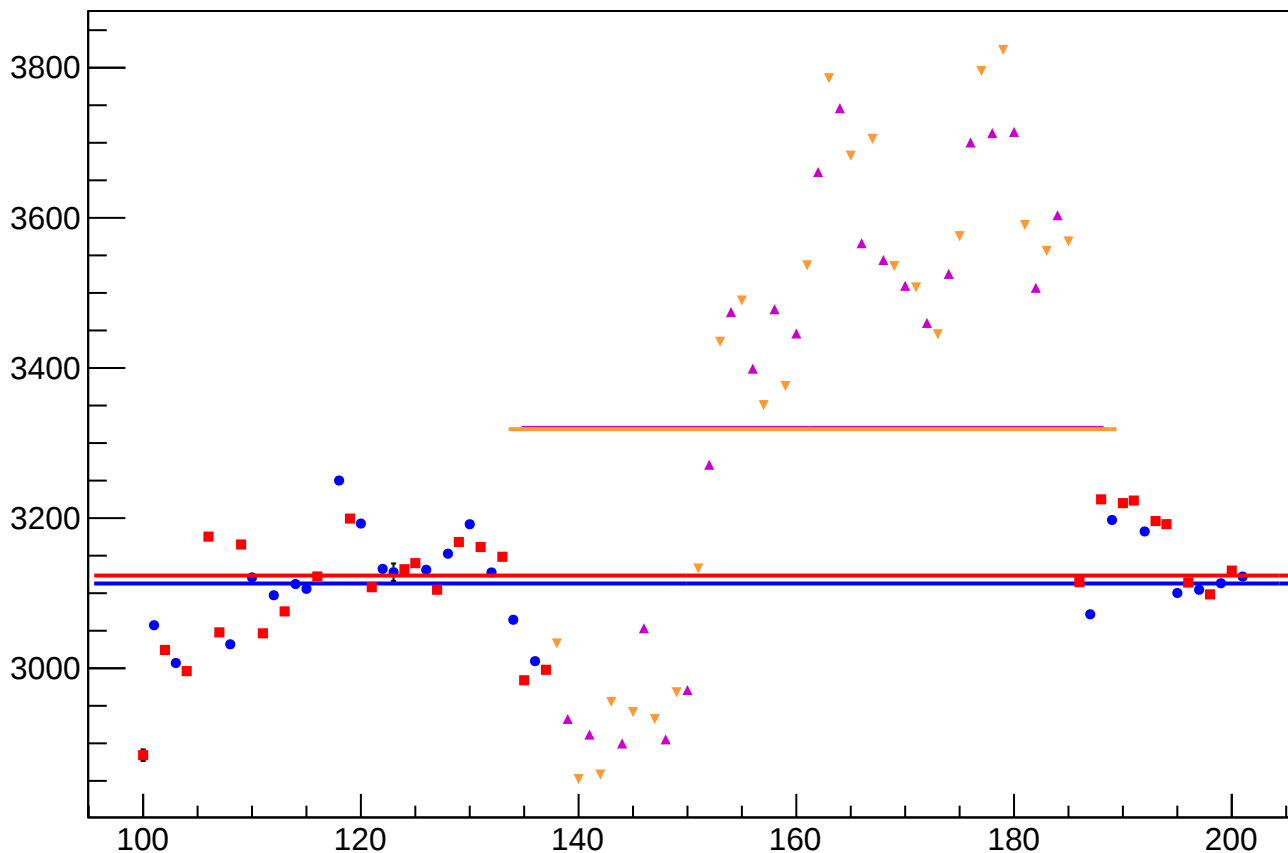
Right: -22.955 ± 0.632 χ^2/NDF : 2116.4/51

In: -12.394 ± 0.603 χ^2/NDF : 1716.9/46

Out: -10.883 ± 0.578 χ^2/NDF : 1348.1/52

All: -11.606 ± 0.417 χ^2/NDF : 3068.2/99

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3112.921 $\pm$ 0.653 χ^2 /NDF: 8989.3/23

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3123.505 $\pm$ 0.612 χ^2 /NDF: 13727.1/27

Left In: 3320.170 $\pm$ 0.564 χ^2 /NDF:287634.9/22

Left: 3319.315 $\pm$ 0.393 χ^2 /NDF: 625333.6/47

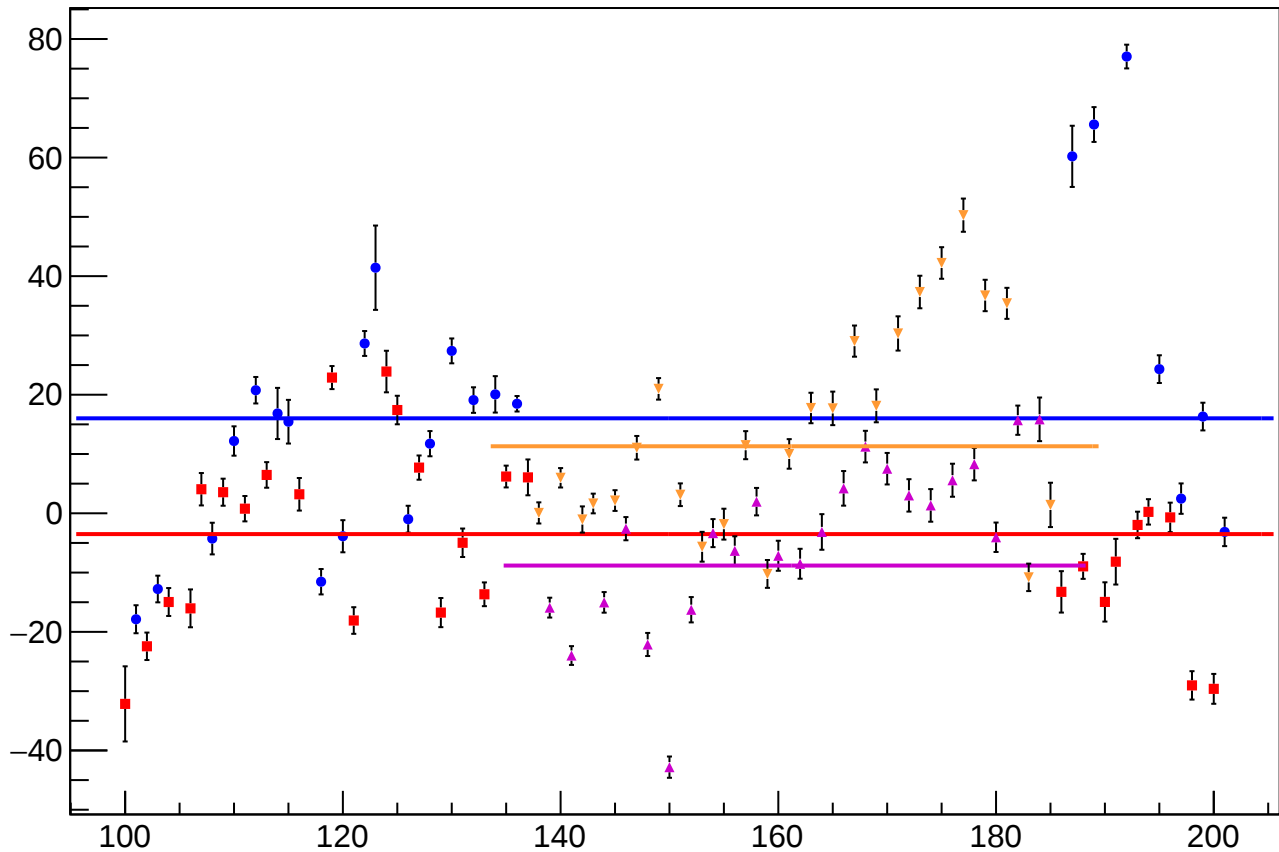
Right: 3118.550 $\pm$ 0.447 χ^2 /NDF: 22856.3/51

In: 3231.628 $\pm$ 0.427 χ^2 /NDF:354383.1/46

Out: 3231.727 $\pm$ 0.408 χ^2 /NDF:407702.3/52

All: 3231.680 $\pm$ 0.295 χ^2 /NDF: 762085.4/99

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 16.020 $\pm$ 0.485 χ^2 /NDF: 2190.3/23

Left Out: 11.305 $\pm$ 0.454 χ^2 /NDF:1144.3/24

Right Out: -3.508 $\pm$ 0.461 χ^2 /NDF: 914.8/27

Left In: -8.815 $\pm$ 0.475 χ^2 /NDF:942.2/22

Left: 1.711 $\pm$ 0.328 χ^2 /NDF: 3023.6/47

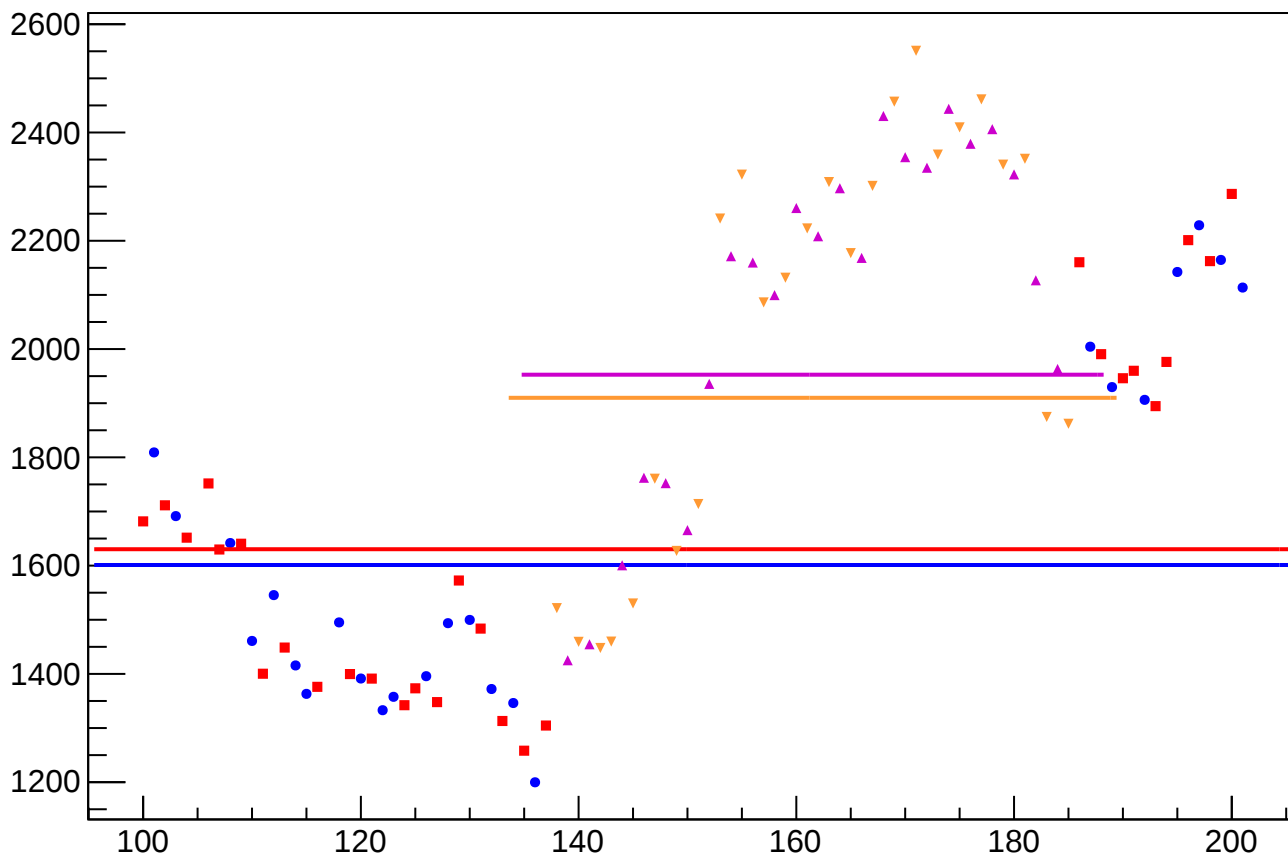
Right: 5.761 $\pm$ 0.334 χ^2 /NDF: 3957.3/51

In: 3.356 $\pm$ 0.339 χ^2 /NDF:4470.1/46

Out: 4.012 $\pm$ 0.323 χ^2 /NDF:2583.5/52

All: 3.700 $\pm$ 0.234 χ^2 /NDF: 7055.6/99

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1601.156 $\pm$ 0.343 χ^2/NDF : 859941.2/23

Left Out: 1909.963 $\pm$ 0.321 χ^2/NDF :1399467.7/24

Right Out: 1630.289 $\pm$ 0.326 χ^2/NDF : 906462.6/27

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

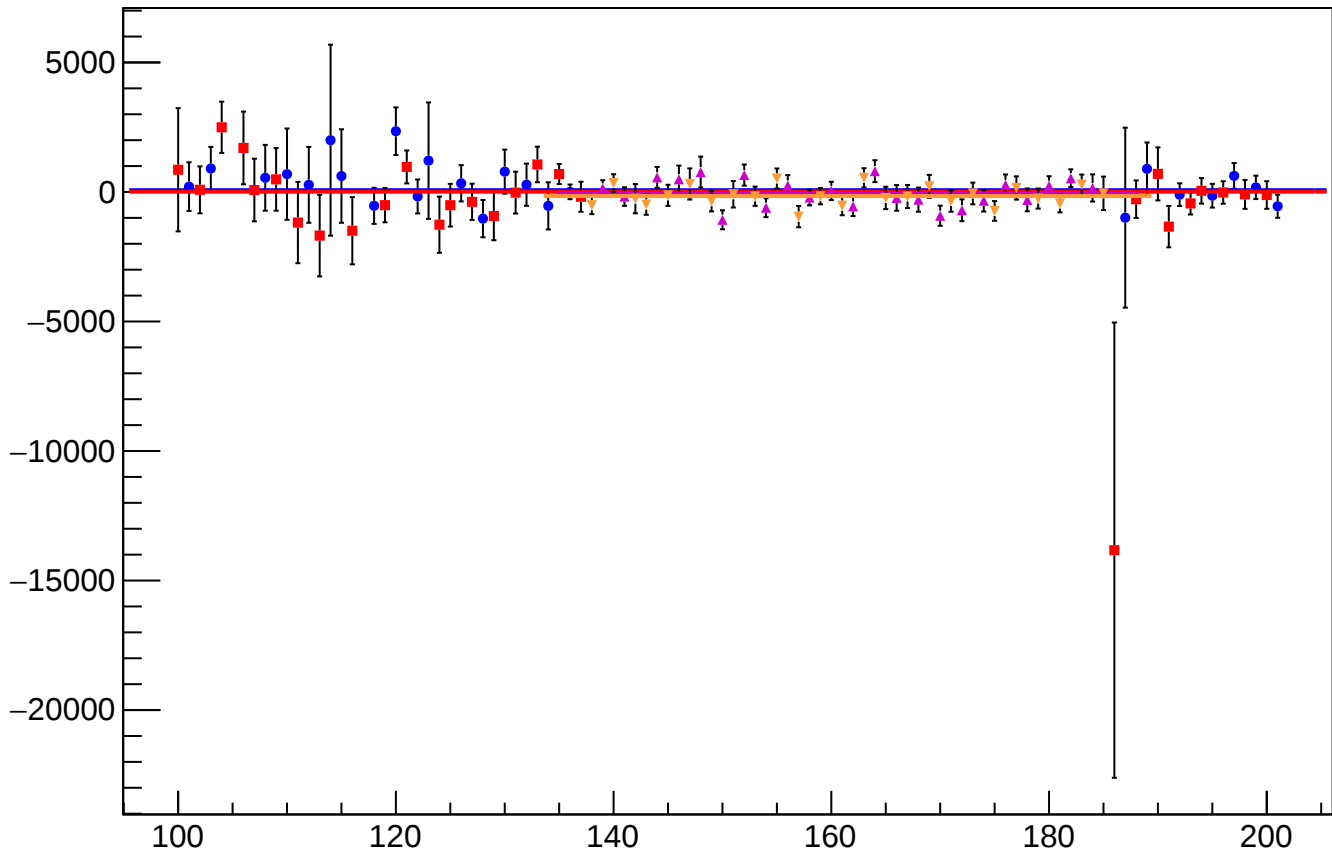
Right: 1616.461 $\pm$ 0.236 χ^2/NDF : 1770196.7/51

In: 1780.378 $\pm$ 0.240 χ^2/NDF :2461138.7/46

Out: 1772.276 $\pm$ 0.229 χ^2/NDF :2679826.0/52

All: 1776.131 $\pm$ 0.166 χ^2/NDF : 5141562.0/99

asym_sam1_mean vs Slug, Sign Corrected



Right In: 68.925 ± 133.984 χ^2/NDF : 17.0/23

Left Out: -157.242 ± 80.796 χ^2/NDF : 22.0/24

Right Out: 12.613 ± 134.393 χ^2/NDF : 29.9/27

Left In: -58.934 ± 82.584 χ^2/NDF : 38.5/22

Left: -109.164 ± 57.753 χ^2/NDF : 61.3/47

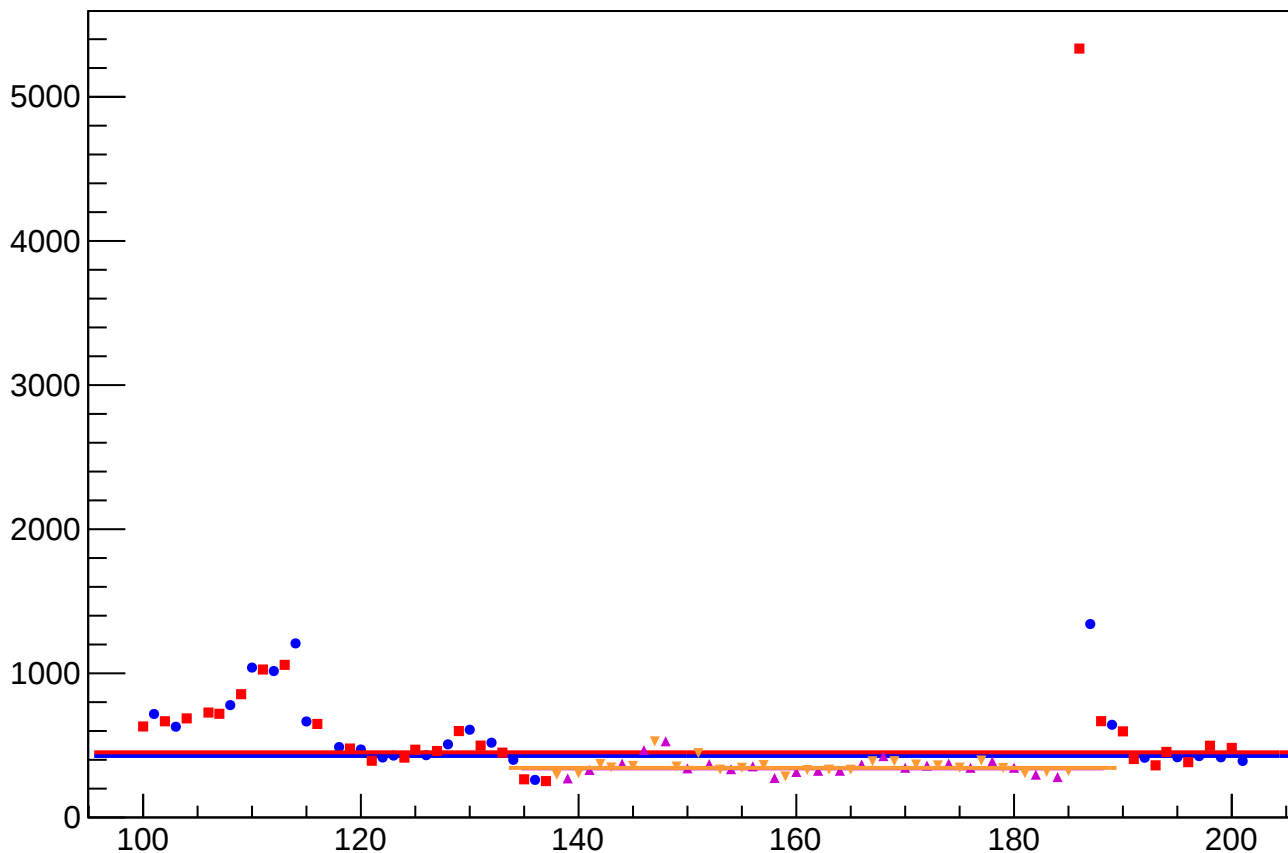
Right: 40.855 ± 94.885 χ^2/NDF : 47.0/51

In: -23.732 ± 70.303 χ^2/NDF : 56.3/46

Out: -112.149 ± 69.245 χ^2/NDF : 53.1/52

All: -68.610 ± 49.333 χ^2/NDF : 110.1/99

asym_sam1_rms vs Slug, Sign Corrected



Right In: 426.744+/-0.095 χ^2/NDF : 2252101.1/23

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 451.953+/-0.095 χ^2/NDF : 3034243.9/27

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

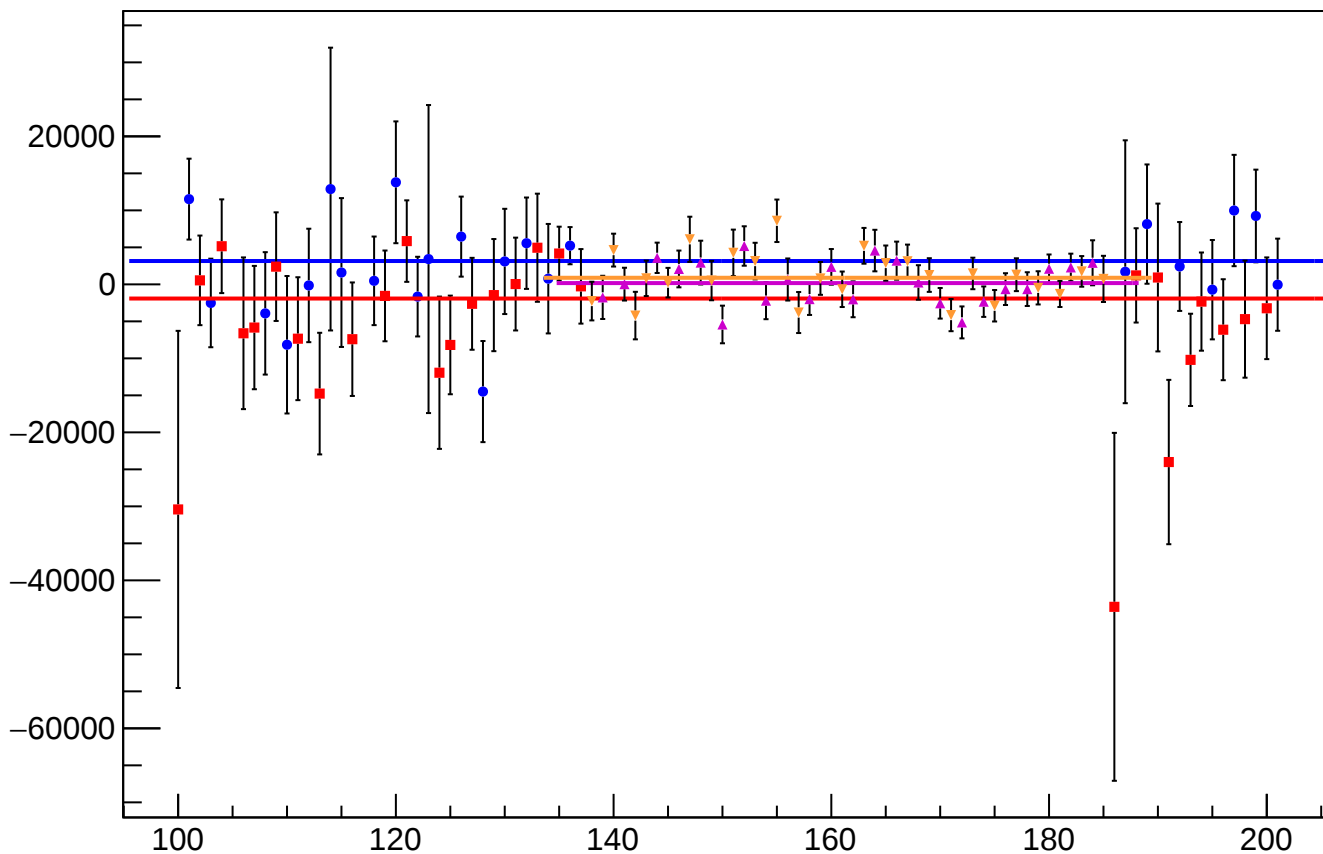
Right: 439.310+/-0.067 χ^2/NDF : 5321637.7/51

In: 364.517+/-0.050 χ^2/NDF : 3572065.3/46

Out: 372.517+/-0.049 χ^2/NDF : 4524942.9/52

All: 368.578+/-0.035 χ^2/NDF : 8110152.8/99

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3154.475+/-1277.697 χ^2/NDF : 19.3/23

Left Out: 890.395+/-473.262 χ^2/NDF : 38.0/24

Right Out: -1914.938+/-1303.304 χ^2/NDF : 24.4/27

Left In: 172.391+/-488.067 χ^2/NDF : 33.2/22

Left: 542.448+/-339.760 χ^2/NDF : 72.3/47

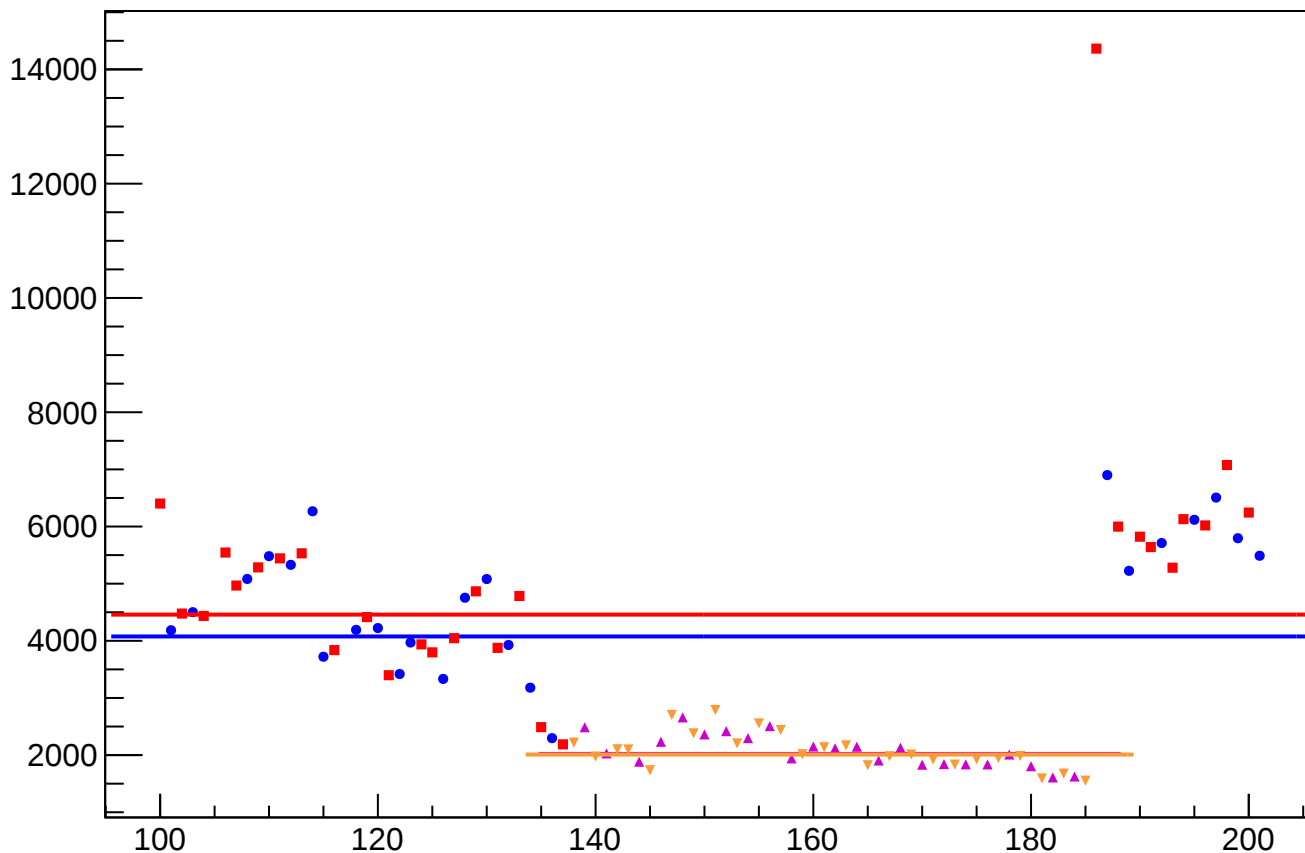
Right: 670.058+/-912.387 χ^2/NDF : 51.5/51

In: 552.117+/-455.935 χ^2/NDF : 57.3/46

Out: 563.579+/-444.842 χ^2/NDF : 66.5/52

All: 557.989+/-318.400 χ^2/NDF : 123.8/99

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4076.375+/-0.903 χ^2/NDF : 2218203.4/23

Left Out: 2009.631+/-0.335 χ^2/NDF : 709977.6/24

Right Out: 4458.764+/-0.922 χ^2/NDF : 2425327.5/27

Left In: 2020.365+/-0.345 χ^2/NDF : 573483.0/22

Left: 2014.833+/-0.240 χ^2/NDF : 1283959.2/47

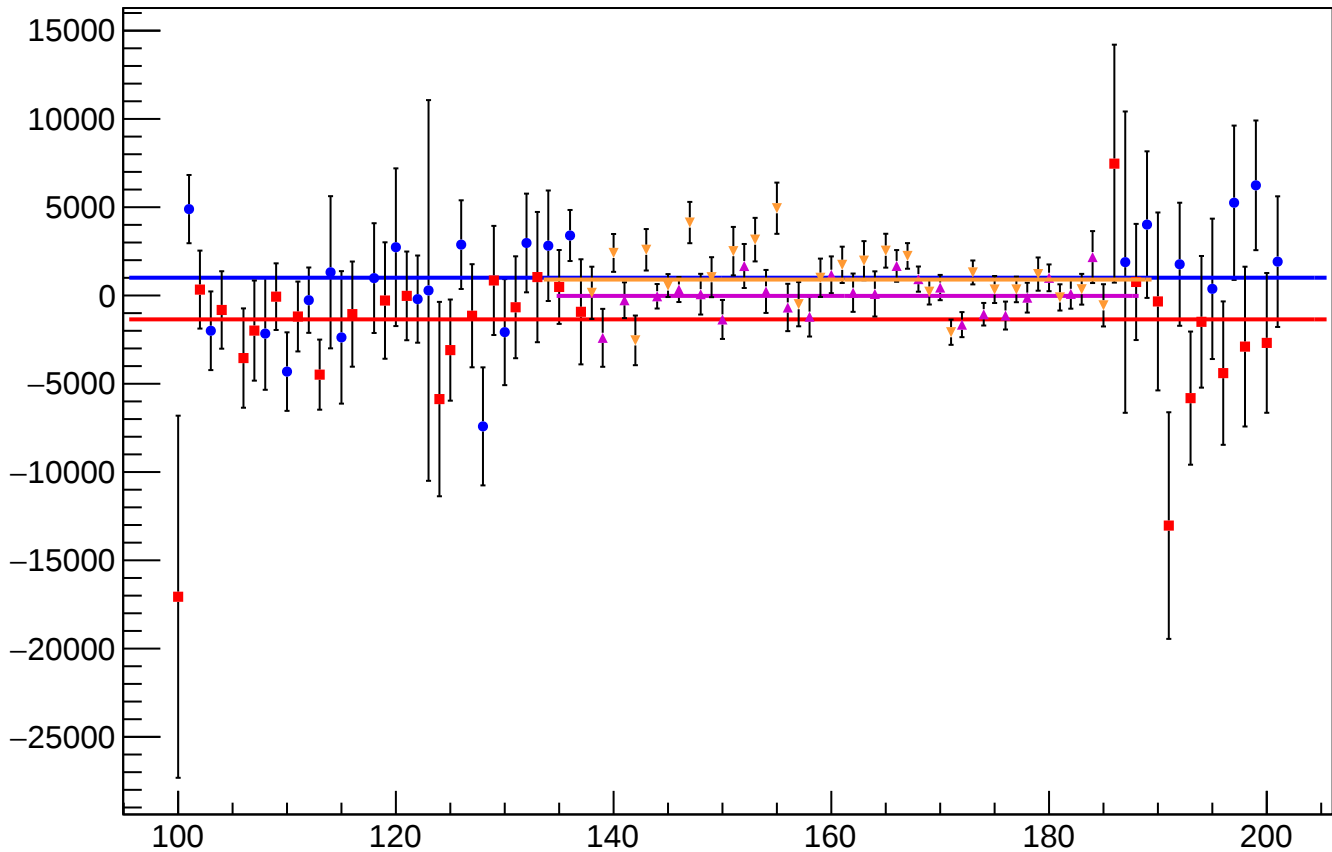
Right: 4263.776+/-0.645 χ^2/NDF : 4731322.1/51

In: 2282.169+/-0.322 χ^2/NDF : 7310991.3/46

Out: 2294.951+/-0.315 χ^2/NDF : 9375108.5/52

All: 2288.717+/-0.225 χ^2/NDF : 16686905.0/9

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1006.829+/-577.599 χ^2/NDF : 29.4/23

Left Out: 902.091+/-185.850 χ^2/NDF : 63.5/24

Right Out: -1352.977+/-556.281 χ^2/NDF : 17.5/27

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

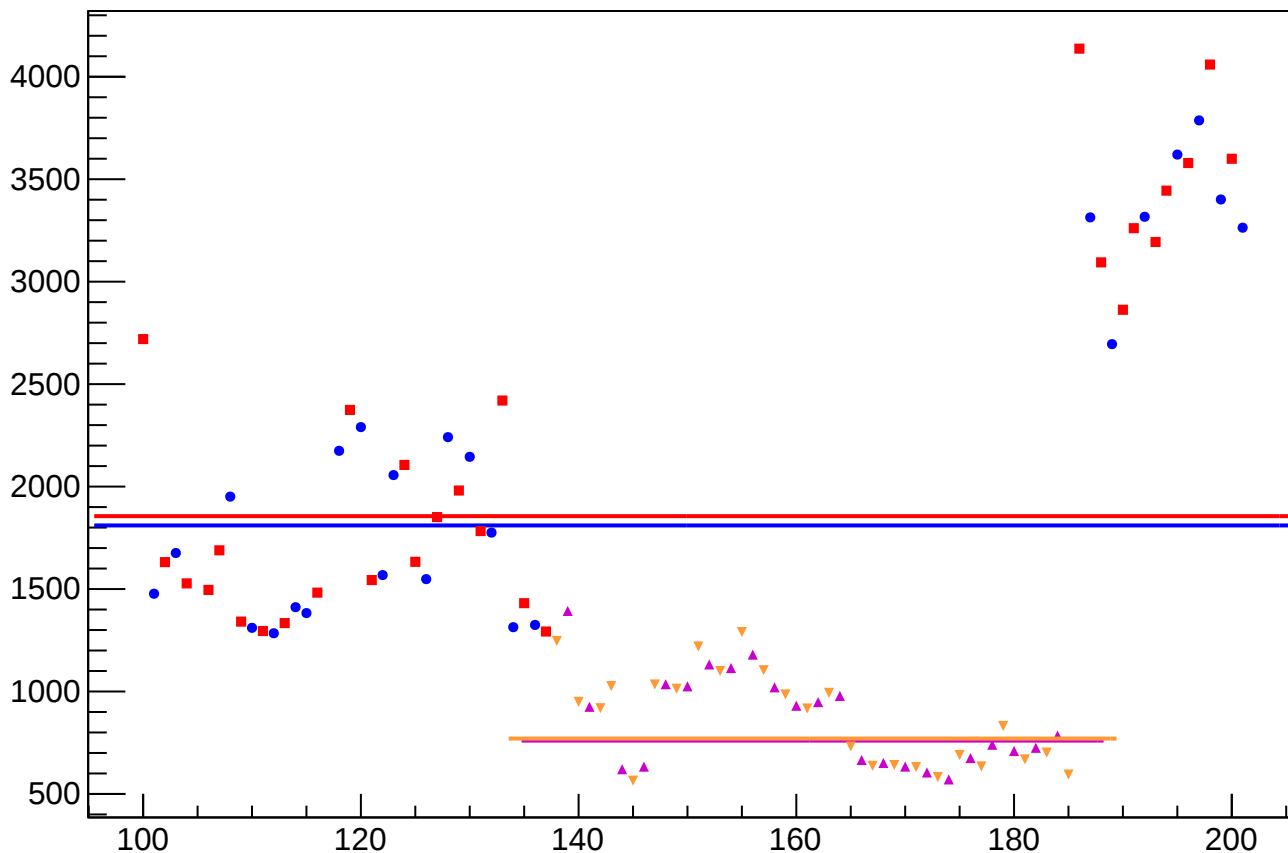
Right: -217.425+/-400.675 χ^2/NDF : 55.6/51

In: 75.301+/-178.886 χ^2/NDF : 60.5/46

Out: 675.658+/-176.273 χ^2/NDF : 95.8/52

All: 379.897+/-125.557 χ^2/NDF : 162.0/99

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1810.370+/-0.408 χ^2/NDF : 2837074.3/23

Left Out: 770.320+/-0.131 χ^2/NDF : 2287655.1/24

Right Out: 1855.678+/-0.393 χ^2/NDF : 3425798.5/27

Left In: 760.352+/-0.133 χ^2/NDF : 1986749.8/22

Left: 765.397+/-0.093 χ^2/NDF : 4277246.5/47

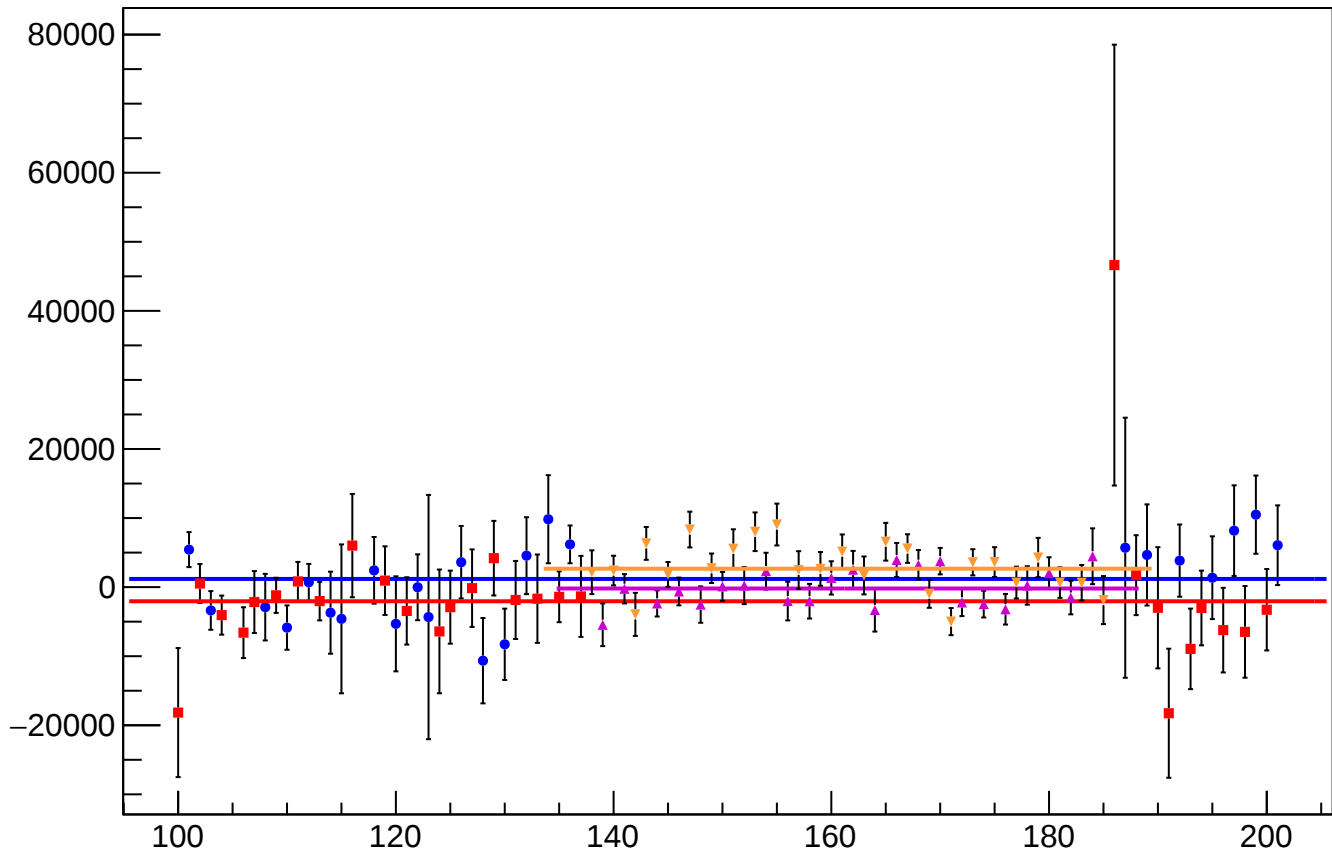
Right: 1833.875+/-0.283 χ^2/NDF : 6269257.3/51

In: 861.068+/-0.126 χ^2/NDF : 10799373.3/46

Out: 879.302+/-0.125 χ^2/NDF : 12562527.2/52

All: 870.319+/-0.089 χ^2/NDF : 23372443.4/99

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1186.644 $\pm$ 922.836 χ^2 /NDF: 31.0/23

Left Out: 2665.587 $\pm$ 479.773 χ^2 /NDF:49.2/24

Right Out: -2047.046 $\pm$ 856.277 χ^2 /NDF: 18.5/27

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

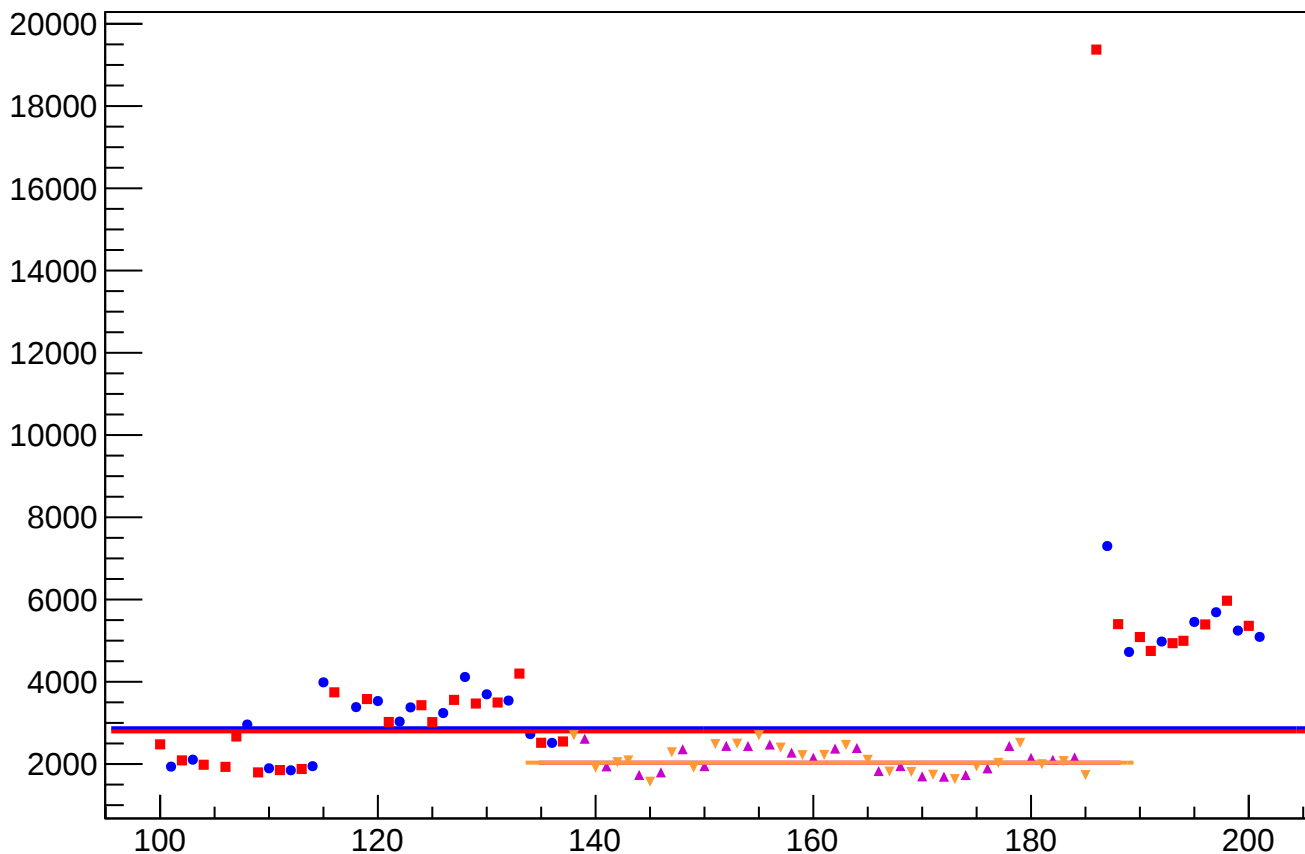
Right: -551.009 $\pm$ 627.692 χ^2 /NDF: 56.1/51

In: 107.472 $\pm$ 434.209 χ^2 /NDF:58.5/46

Out: 1539.603 $\pm$ 418.551 χ^2 /NDF:90.8/52

All: 849.825 $\pm$ 301.344 χ^2 /NDF: 155.0/99

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2870.104 $\pm$ 0.653 χ^2 /NDF: 3176958.6/23

Left Out: 2033.337 $\pm$ 0.339 χ^2 /NDF: 824062.2/24

Right Out: 2792.768 $\pm$ 0.605 χ^2 /NDF: 4429395.1/27

Left In: 2032.655 $\pm$ 0.348 χ^2 /NDF: 652763.7/22

Left: 2033.004 $\pm$ 0.243 χ^2 /NDF: 1476827.9/47

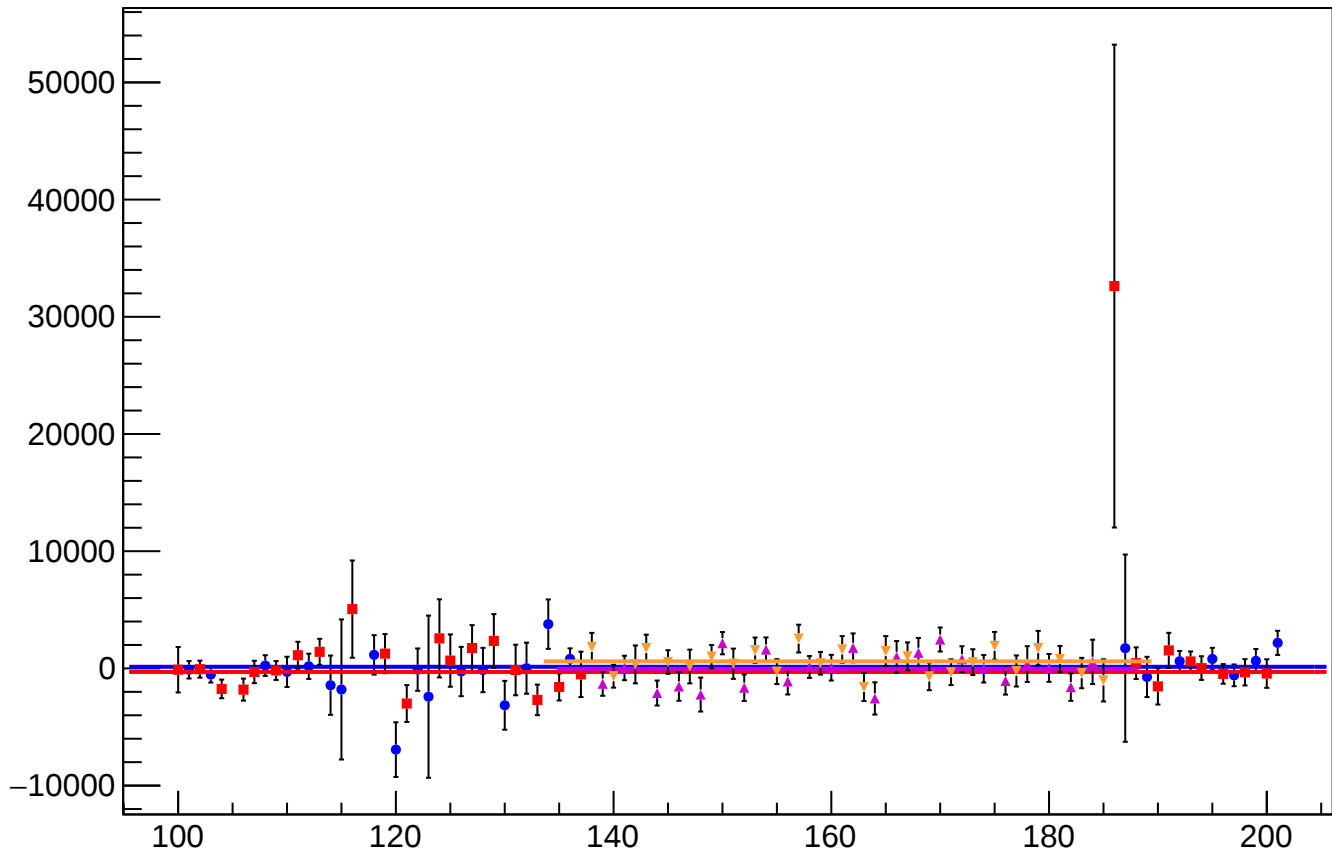
Right: 2828.547 $\pm$ 0.444 χ^2 /NDF: 7613901.5/51

In: 2218.054 $\pm$ 0.307 χ^2 /NDF: 5112114.8/46

Out: 2214.787 $\pm$ 0.296 χ^2 /NDF: 6450756.9/52

All: 2216.360 $\pm$ 0.213 χ^2 /NDF: 11562930.4/99

asym_sam5_mean vs Slug, Sign Corrected



Right In: 137.323+/-250.032 χ^2/NDF : 23.3/23

Left Out: 600.005+/-234.968 χ^2/NDF :18.5/24

Right Out: -301.066+/-228.509 χ^2/NDF : 29.7/27

Left In: -41.559+/-240.807 χ^2/NDF :36.4/22

Left: 287.096+/-168.174 χ^2/NDF : 58.5/47

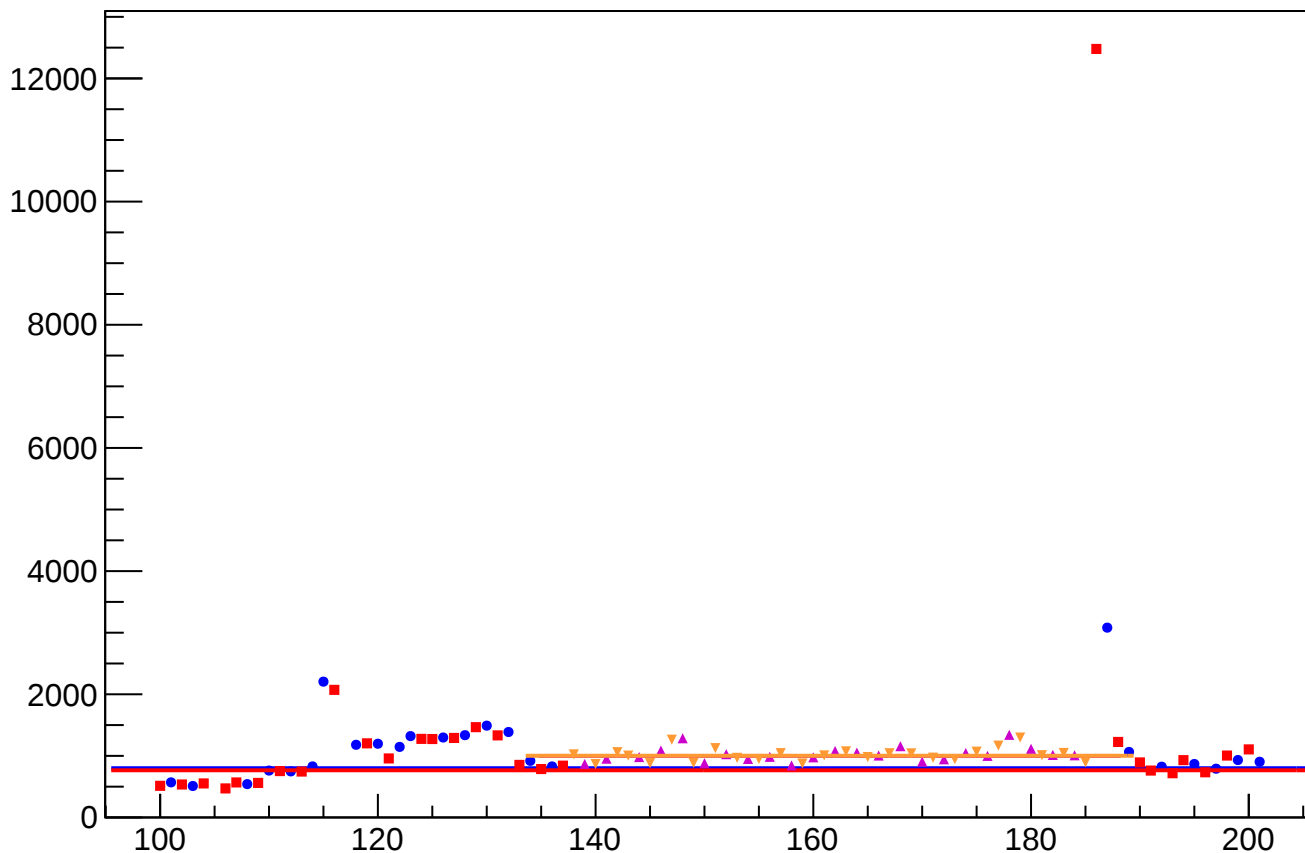
Right: -101.549+/-168.677 χ^2/NDF : 54.7/51

In: 44.521+/-173.446 χ^2/NDF :60.0/46

Out: 136.915+/-163.816 χ^2/NDF :55.7/52

All: 93.354+/-119.094 χ^2/NDF : 115.9/99

asym_sam5_rms vs Slug, Sign Corrected



Right In: 799.022+/-0.177 χ^2/NDF : 2008603.5/23

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 766.119+/-0.162 χ^2/NDF : 2992405.0/27

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

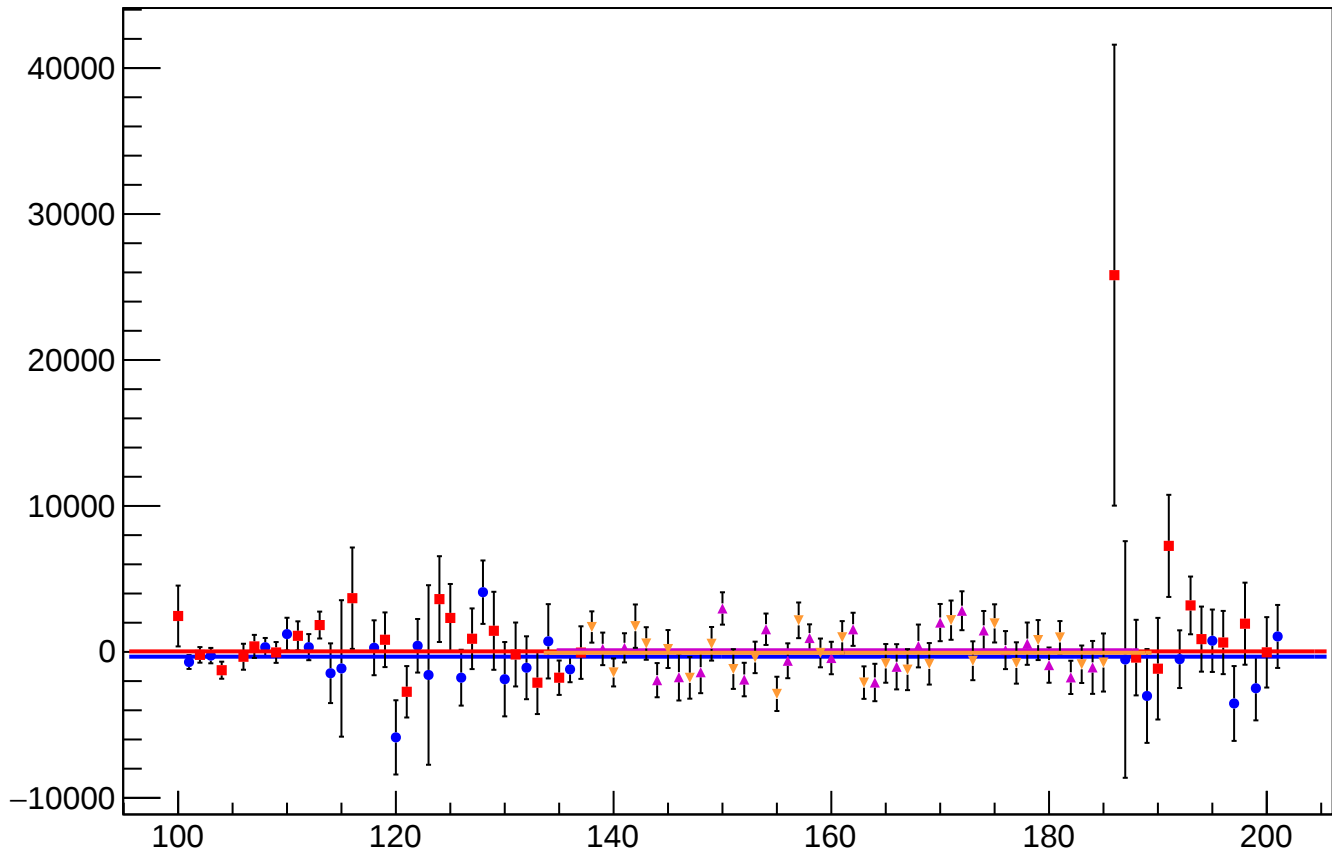
Right: 781.093+/-0.119 χ^2/NDF : 5019880.4/51

In: 902.275+/-0.123 χ^2/NDF : 3070703.0/46

Out: 880.516+/-0.116 χ^2/NDF : 4393941.7/52

All: 890.775+/-0.084 χ^2/NDF : 7481280.7/99

asym_sam6_mean vs Slug, Sign Corrected



Right In: -327.442 ± 242.019 χ^2/NDF : 19.7/23

Left Out: -59.827 ± 246.503 χ^2/NDF : 31.0/24

Right Out: 35.503 ± 237.141 χ^2/NDF : 32.1/27

Left In: 112.398 ± 255.409 χ^2/NDF : 34.9/22

Left: 23.230 ± 177.369 χ^2/NDF : 66.1/47

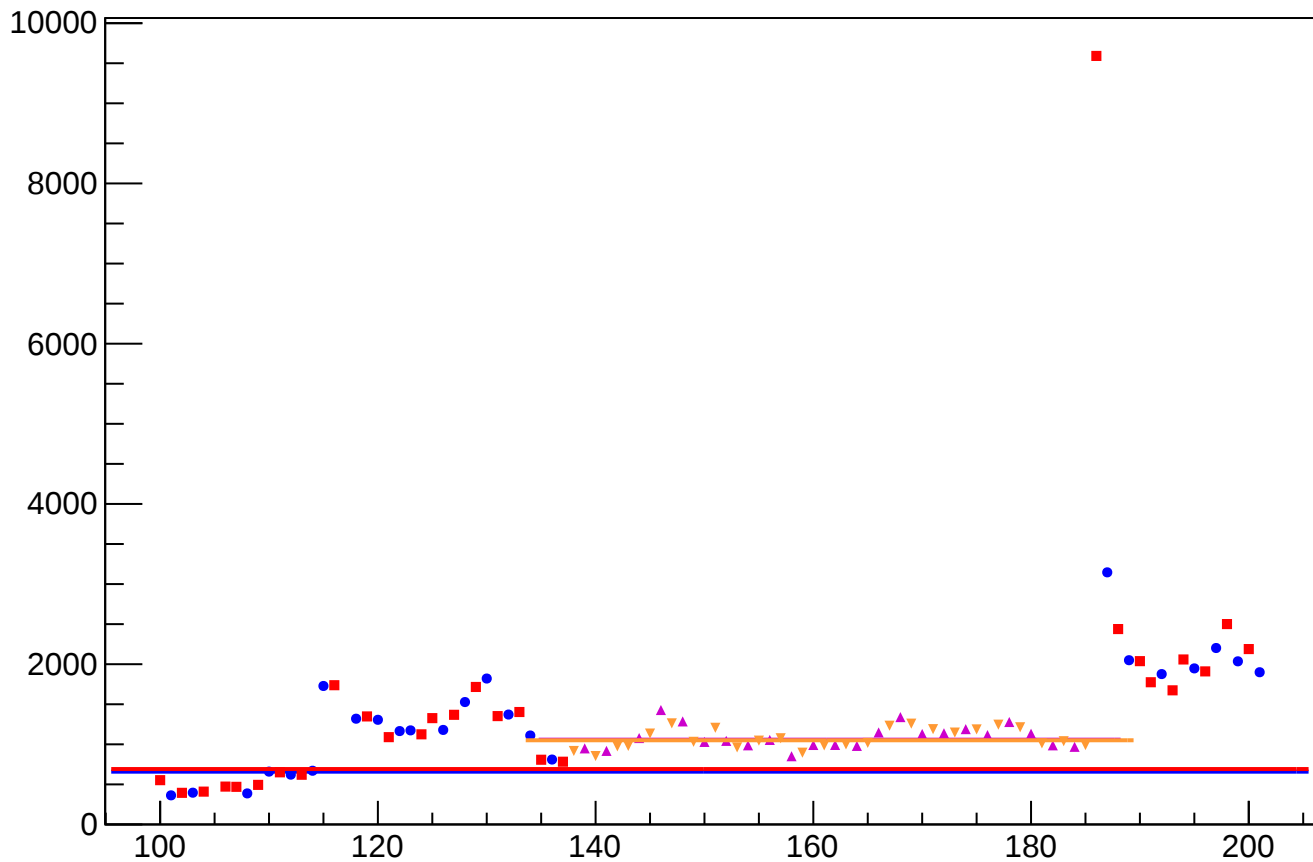
Right: -142.275 ± 169.382 χ^2/NDF : 52.9/51

In: -119.354 ± 175.676 χ^2/NDF : 56.2/46

Out: -10.317 ± 170.898 χ^2/NDF : 63.1/52

All: -63.333 ± 122.498 χ^2/NDF : 119.5/99

asym_sam6_rms vs Slug, Sign Corrected



Right In: 658.812 $\pm$ 0.171 χ^2 /NDF: 7731071.8/23

Left Out: 1050.649 $\pm$ 0.174 χ^2 /NDF: 483144.2/24

Right Out: 691.548 $\pm$ 0.168 χ^2 /NDF: 8708274.6/27

Left In: 1058.097 $\pm$ 0.181 χ^2 /NDF: 528574.7/22

Left: 1054.241 $\pm$ 0.125 χ^2 /NDF: 1012599.4/47

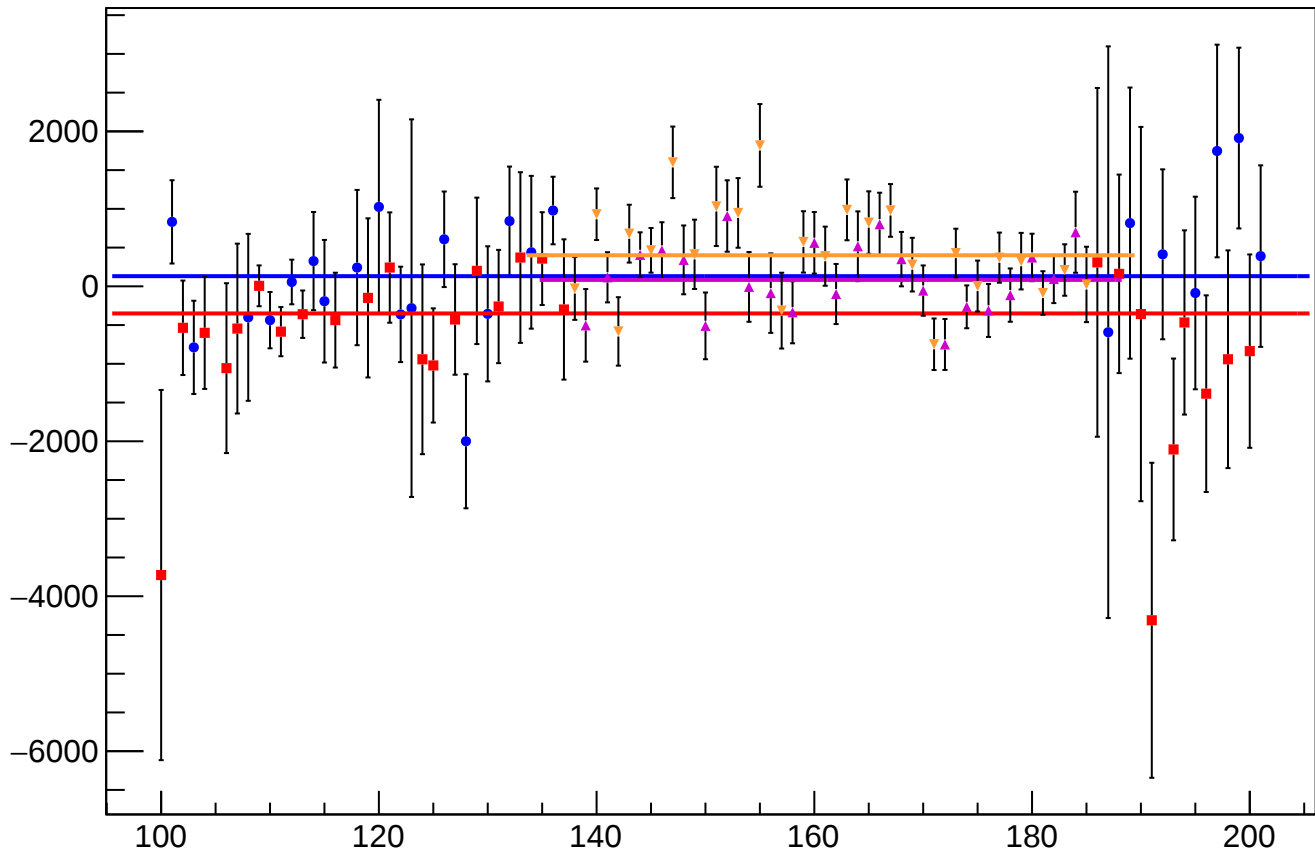
Right: 675.513 $\pm$ 0.120 χ^2 /NDF: 16458015.1/51

In: 847.713 $\pm$ 0.124 χ^2 /NDF: 10835088.8/46

Out: 864.150 $\pm$ 0.121 χ^2 /NDF: 11395762.1/52

All: 856.158 $\pm$ 0.087 χ^2 /NDF: 22239845.8/99

asym_sam7_mean vs Slug, Sign Corrected



Right In: 131.202 ± 137.893 χ^2/NDF : 24.1/23

Left Out: 400.988 ± 74.546 χ^2/NDF : 52.1/24

Right Out: -349.963 ± 125.231 χ^2/NDF : 16.3/27

Left In: 82.890 ± 76.904 χ^2/NDF : 29.0/22

Left: 246.889 ± 53.526 χ^2/NDF : 89.9/47

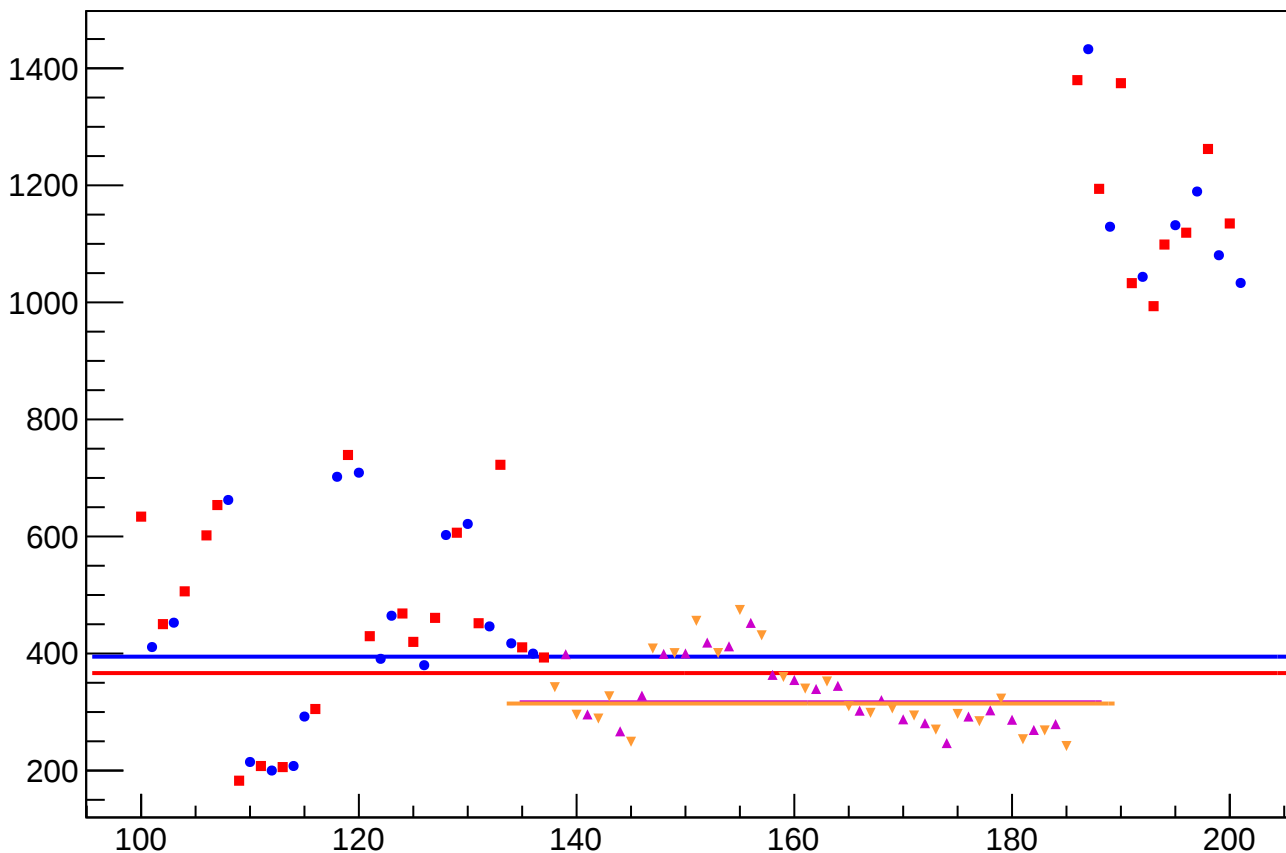
Right: -132.482 ± 92.706 χ^2/NDF : 47.1/51

In: 94.351 ± 67.165 χ^2/NDF : 53.1/46

Out: 204.511 ± 64.056 χ^2/NDF : 94.9/52

All: 152.039 ± 46.355 χ^2/NDF : 149.5/99

asym_sam7_rms vs Slug, Sign Corrected



Right In: 394.626+/-0.098 χ^2/NDF : 6183723.0/23

Left Out: 314.538+/-0.053 χ^2/NDF :1112445.6/24

Right Out: 366.559+/-0.089 χ^2/NDF : 8533919.5/27

Left In: 316.647+/-0.054 χ^2/NDF :920874.0/22

Left: 315.560+/-0.038 χ^2/NDF : 2034094.8/47

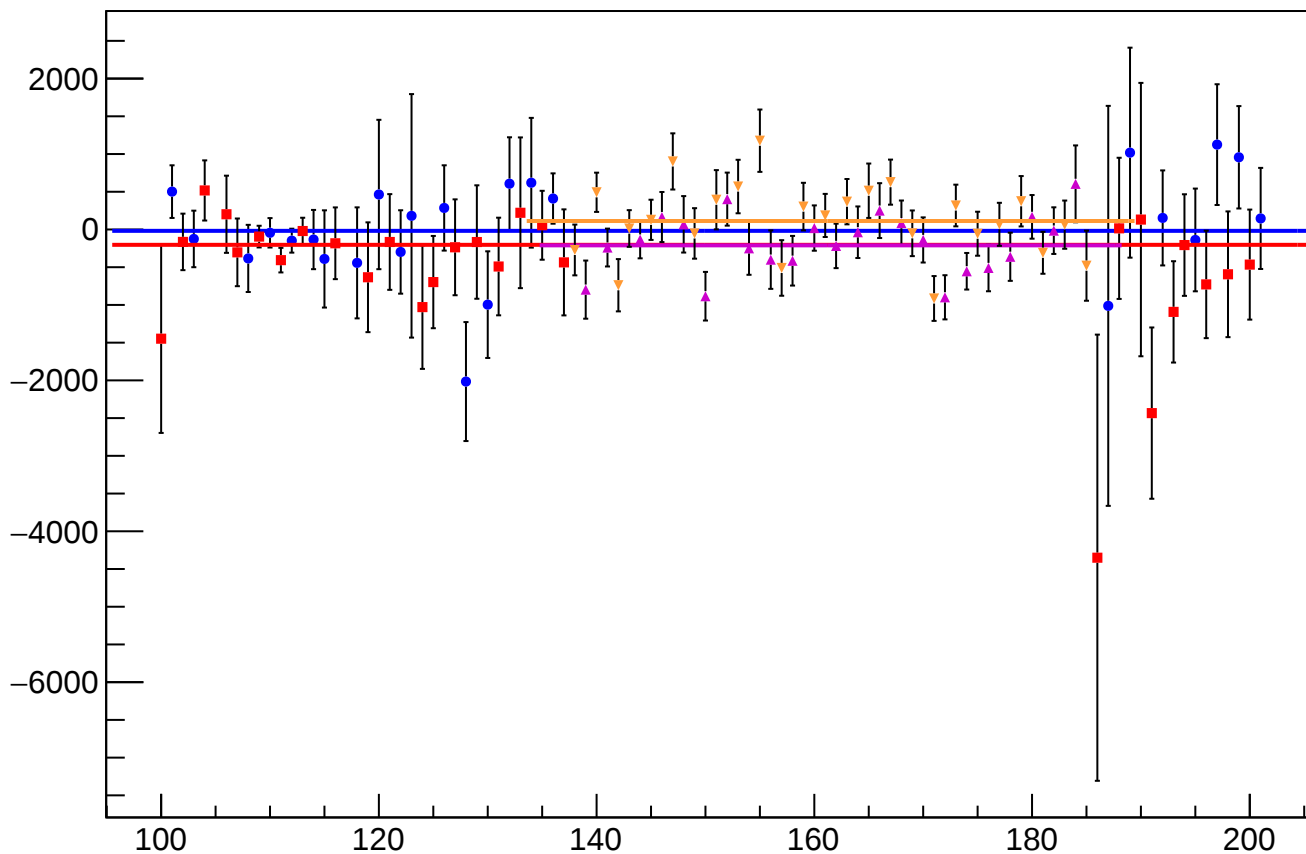
Right: 379.245+/-0.066 χ^2/NDF : 14763049.3/51

In: 335.147+/-0.047 χ^2/NDF :7592442.5/46

Out: 328.149+/-0.045 χ^2/NDF :9901181.2/52

All: 331.482+/-0.033 χ^2/NDF : 17504993.8/99

asym_sam8_mean vs Slug, Sign Corrected



Right In: -18.084 ± 86.752 $\chi^2/\text{NDF}: 21.7/23$

Left Out: 112.242 ± 62.643 $\chi^2/\text{NDF}: 49.1/24$

Right Out: -203.401 ± 74.358 $\chi^2/\text{NDF}: 19.6/27$

Left In: -210.453 ± 65.510 $\chi^2/\text{NDF}: 29.2/22$

Left: -41.890 ± 45.275 $\chi^2/\text{NDF}: 91.0/47$

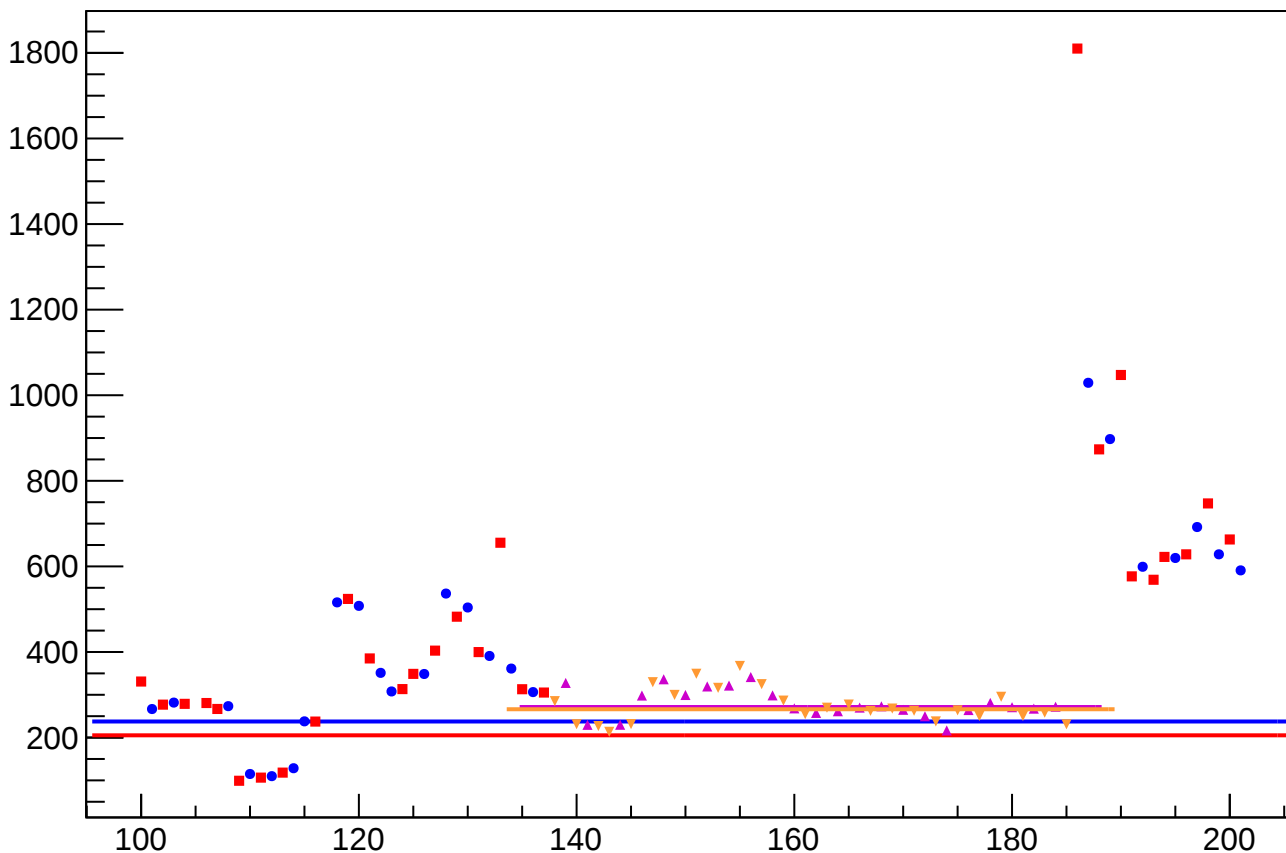
Right: -124.915 ± 56.457 $\chi^2/\text{NDF}: 43.9/51$

In: -140.593 ± 52.279 $\chi^2/\text{NDF}: 54.0/46$

Out: -18.784 ± 47.908 $\chi^2/\text{NDF}: 79.2/52$

All: -74.385 ± 35.321 $\chi^2/\text{NDF}: 136.2/99$

asym_sam8_rms vs Slug, Sign Corrected



Right In: 237.585+/-0.061 χ^2/NDF : 7501559.4/23

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 205.272+/-0.053 χ^2/NDF : 10415238.8/27

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

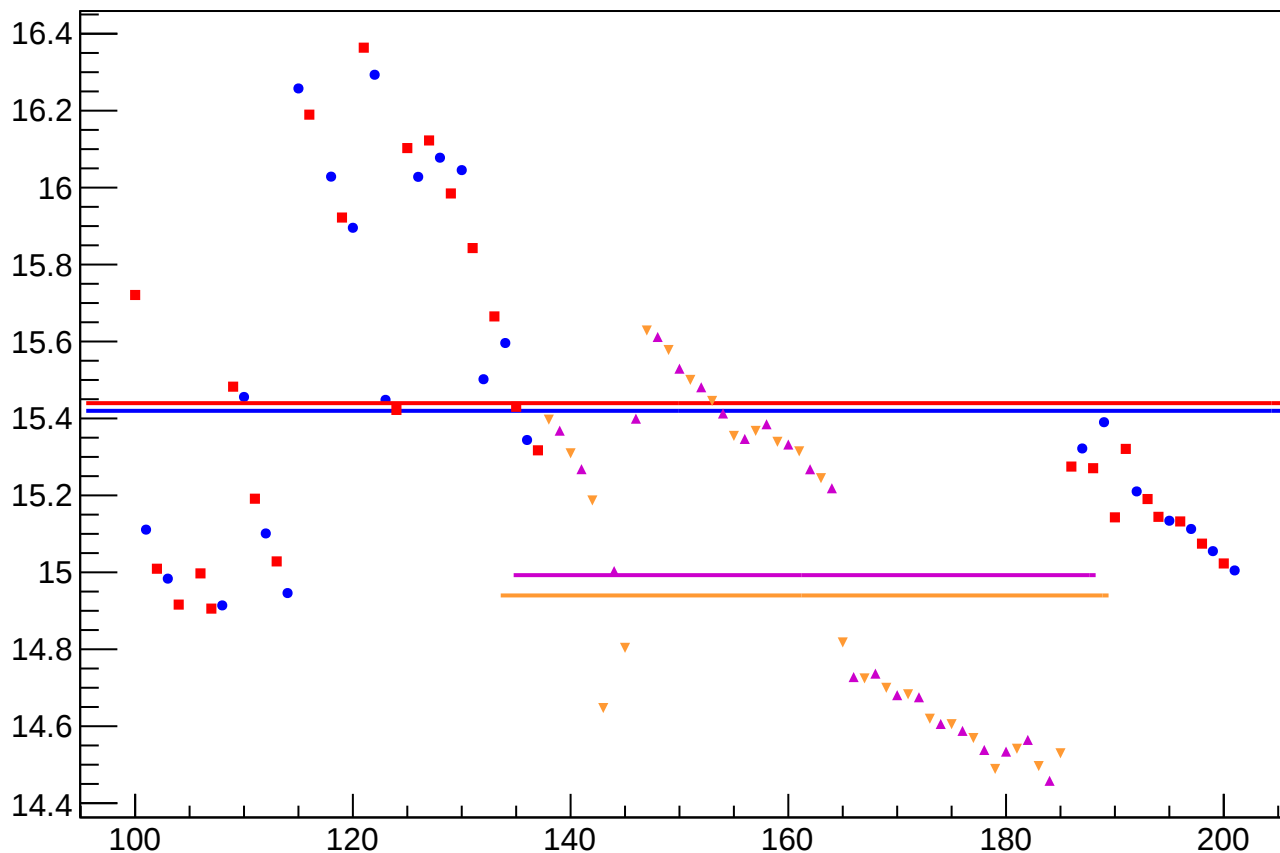
Right: 218.957+/-0.040 χ^2/NDF : 18076750.7/51

In: 259.129+/-0.037 χ^2/NDF : 8217127.7/46

Out: 240.913+/-0.034 χ^2/NDF : 11850421.9/52

All: 249.228+/-0.025 χ^2/NDF : 20199543.0/99

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.420+/-0.000 χ^2/NDF : 9629316597.0/23

Left Out: 14.940+/-0.000 χ^2/NDF : 24199653913.9/24

Right Out: 15.440+/-0.000 χ^2/NDF : 9519988903.9/27

Left In: 14.993+/-0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965+/-0.000 χ^2/NDF : 46444749587.5/47

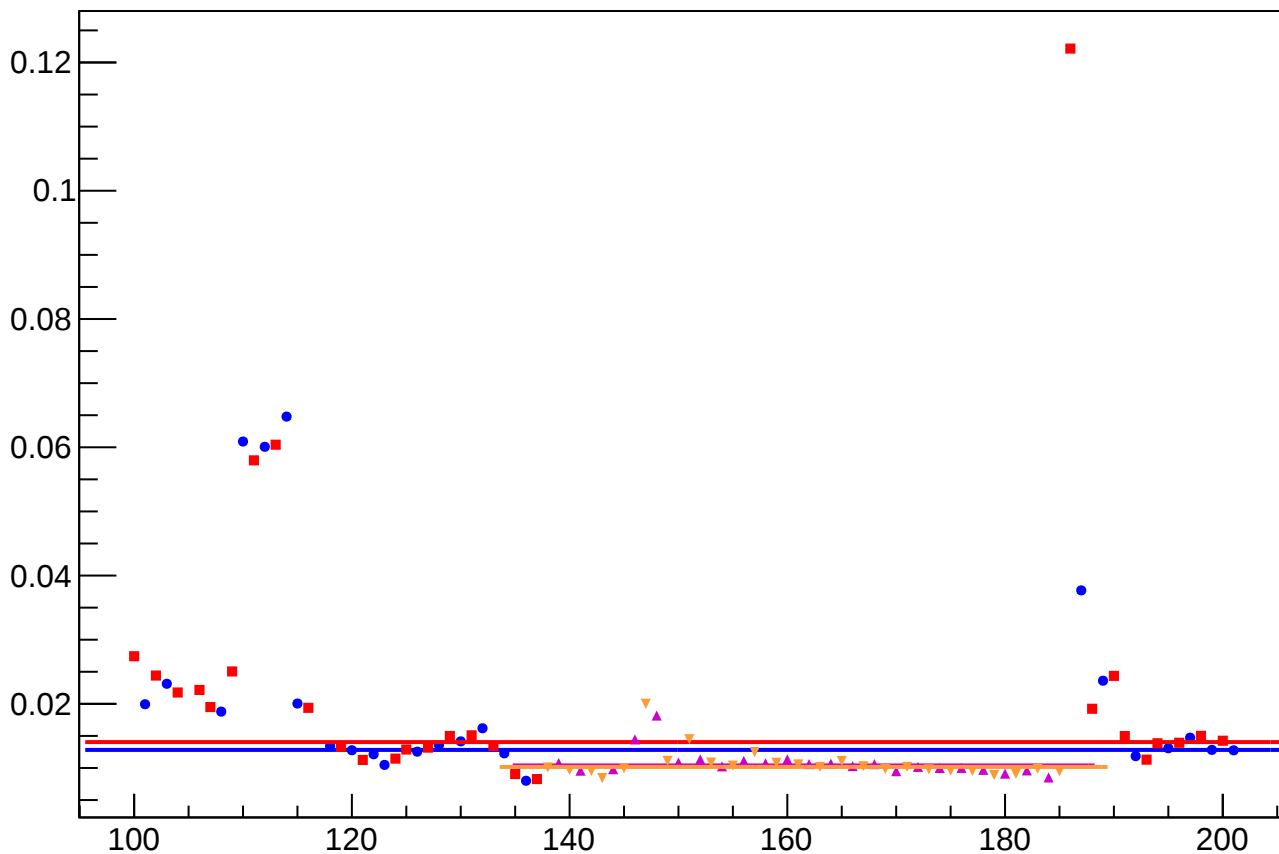
Right: 15.429+/-0.000 χ^2/NDF : 19160486760.1/51

In: 15.111+/-0.000 χ^2/NDF : 39331001463.9/46

Out: 15.062+/-0.000 χ^2/NDF : 43954314641.3/52

All: 15.086+/-0.000 χ^2/NDF : 83539334964.4

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2483954.7/23

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 717351.4/24

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 2981135.2/27

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF: 544268.8/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1270343.0/47

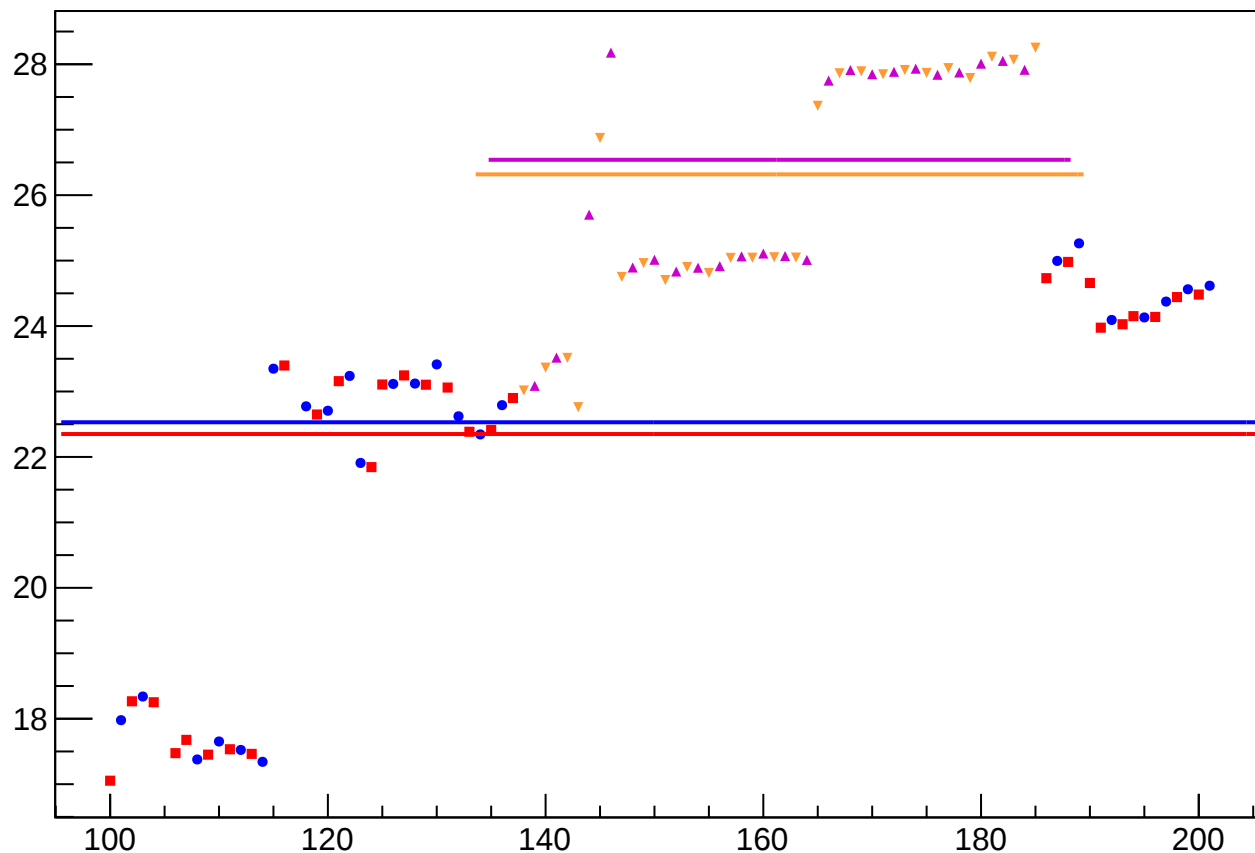
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 5549085.2/51

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 3520782.1/46

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 4929314.5/52

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 8450554.3/99

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.530+/-0.000

χ^2/NDF : 1103752754.0/23

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right: 22.443+/-0.000

χ^2/NDF : 2422151787.2/51

Right Out: 22.350+/-0.000

χ^2/NDF : 1312979156.0/27

In: 25.688+/-0.000

χ^2/NDF : 8839365474.7/46

Out: 25.577+/-0.000

χ^2/NDF : 10171558313.3/52

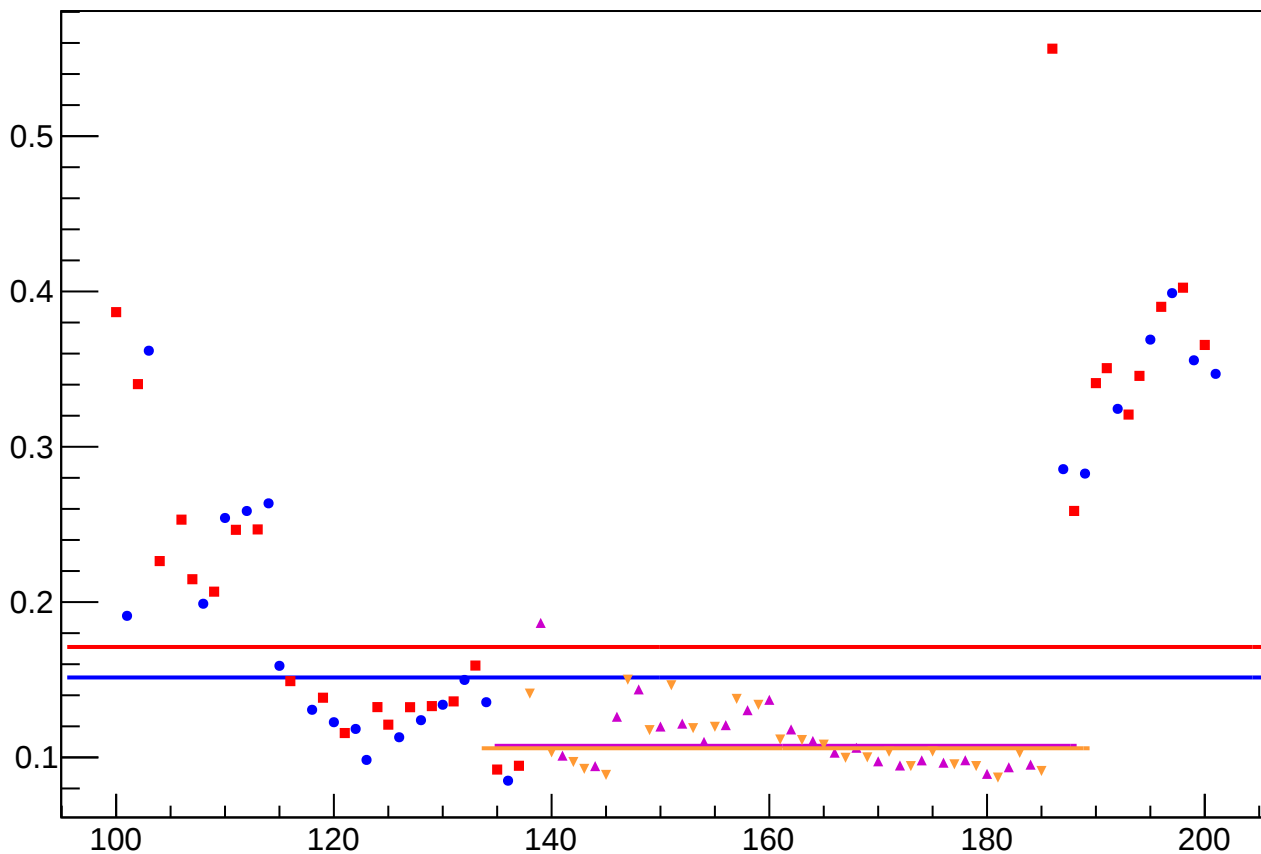
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.631+/-0.000

χ^2/NDF : 19021356311.9

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.151+/-0.000 χ^2/NDF : 4769648.4/23

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.171+/-0.000 χ^2/NDF : 4999073.4/27

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

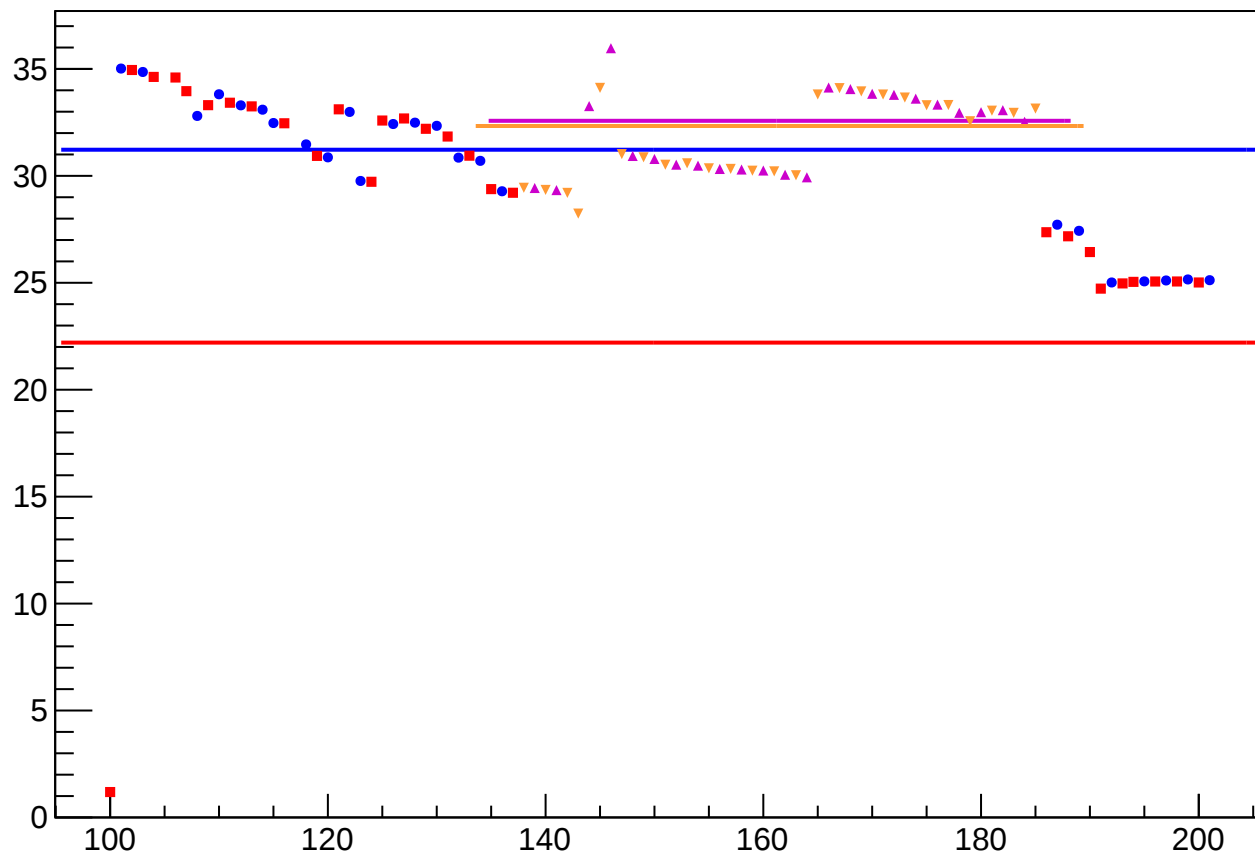
Right: 0.161+/-0.000 χ^2/NDF : 9898257.6/51

In: 0.117+/-0.000 χ^2/NDF : 6606329.3/46

Out: 0.118+/-0.000 χ^2/NDF : 7971251.0/52

All: 0.117+/-0.000 χ^2/NDF : 14580172.1/99

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.222+/-0.000

χ^2/NDF : 4838261229.8/23

Left: 32.450+/-0.000

χ^2/NDF : 24766521375.8/47

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

Right: 25.857+/-0.000

χ^2/NDF : 274438248545.5/51

Right Out: 22.203+/-0.000

χ^2/NDF : 230855155410.8/27

In: 32.345+/-0.000

χ^2/NDF : 17852083191.5/46

Out: 30.073+/-0.000

χ^2/NDF : 337403689040.0/52

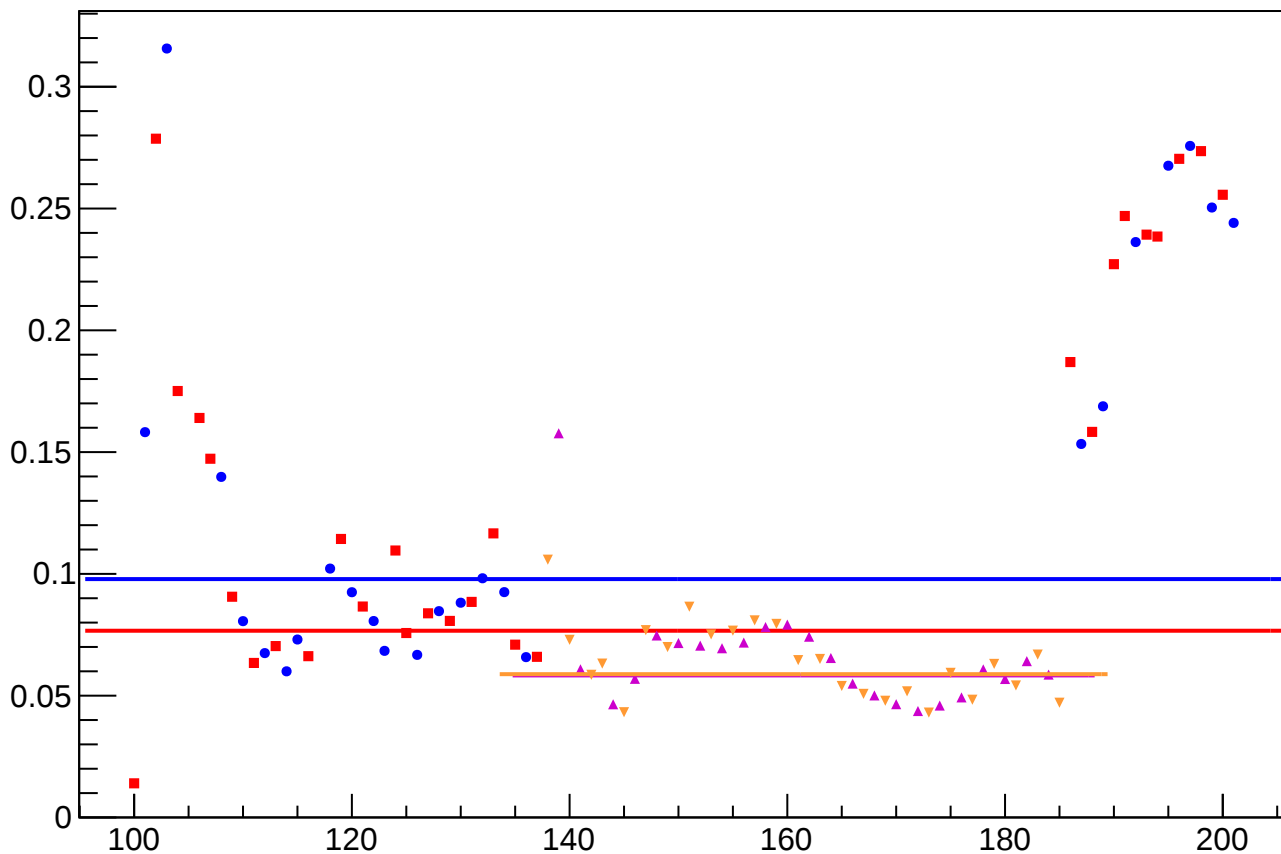
Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

All: 31.146+/-0.000

χ^2/NDF : 368112831188.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.098 $\pm$ 0.000 χ^2 /NDF: 4737873.4/23

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.077 $\pm$ 0.000 χ^2 /NDF: 9174464.4/27

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

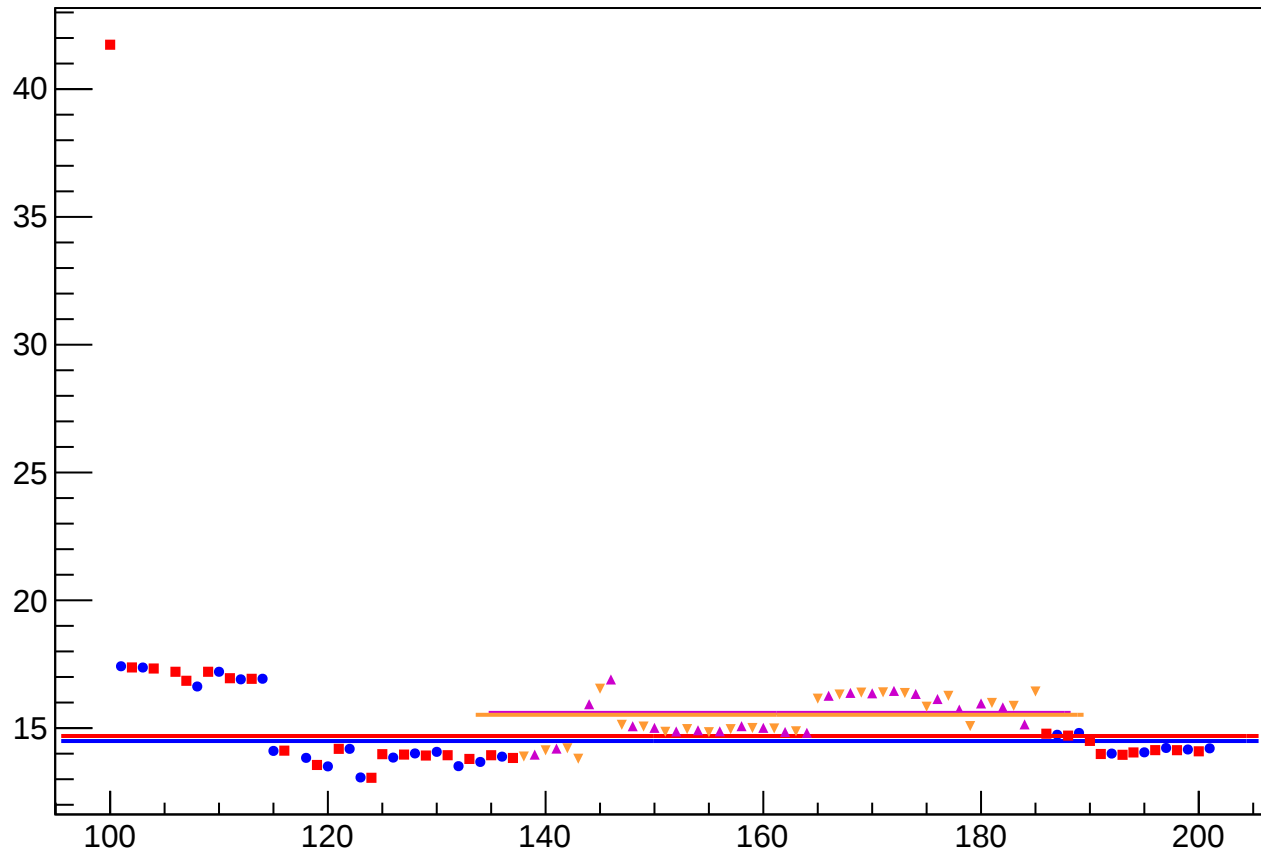
Right: 0.085 $\pm$ 0.000 χ^2 /NDF: 14340642.0/51

In: 0.065 $\pm$ 0.000 χ^2 /NDF:8343714.6/46

Out: 0.063 $\pm$ 0.000 χ^2 /NDF:11158062.2/52

All: 0.064 $\pm$ 0.000 χ^2 /NDF: 19526302.4/99

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.494+/-0.000 χ^2/NDF : 1499994865.5/23

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.691+/-0.000 χ^2/NDF : 1942620198.7/27

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

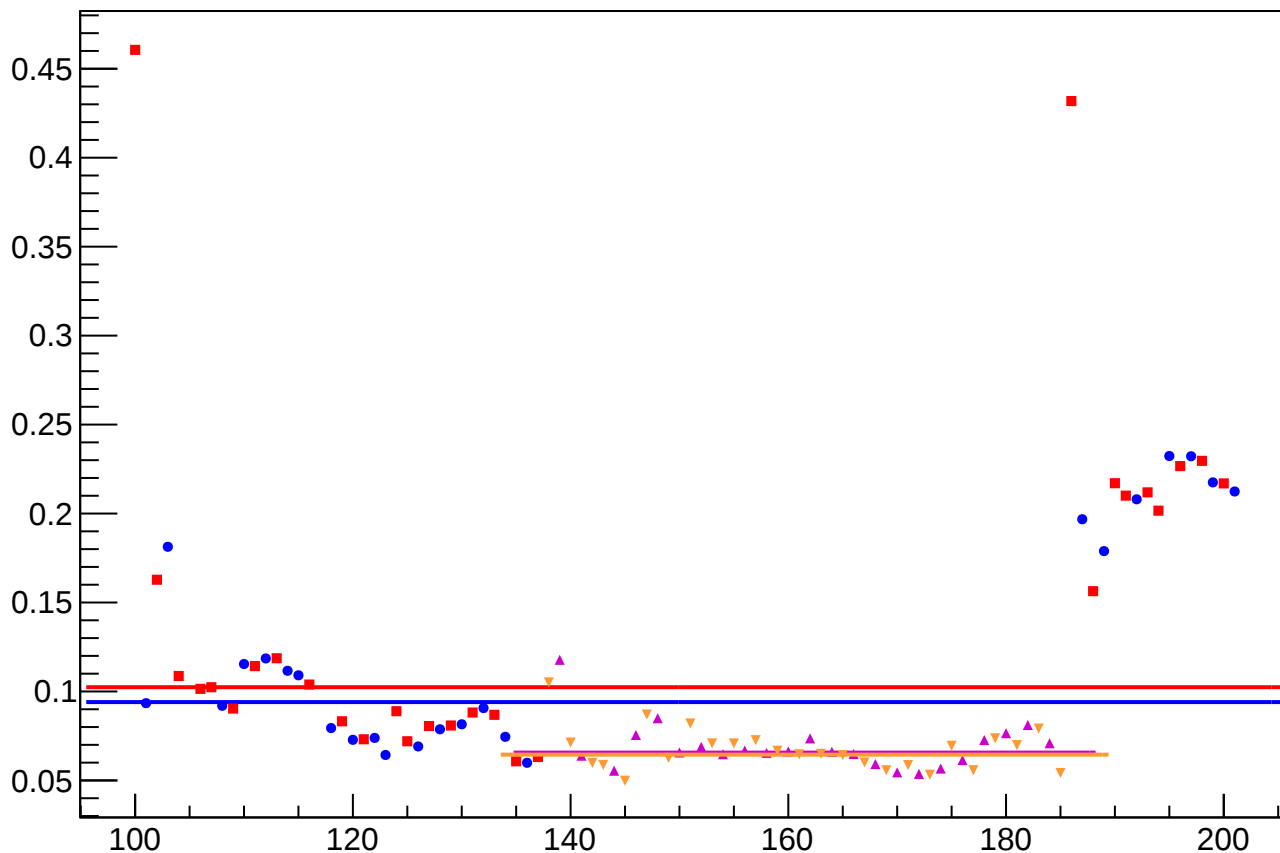
Right: 14.591+/-0.000 χ^2/NDF : 3461016996.7/51

In: 15.355+/-0.000 χ^2/NDF : 4318026052.2/46

Out: 15.356+/-0.000 χ^2/NDF : 5048838868.6/52

All: 15.355+/-0.000 χ^2/NDF : 9366865324.7/99

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.094 $\pm$ 0.000 χ^2 /NDF: 4009011.9/23

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF: 761552.3/24

Right Out: 0.102 $\pm$ 0.000 χ^2 /NDF: 4322032.9/27

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

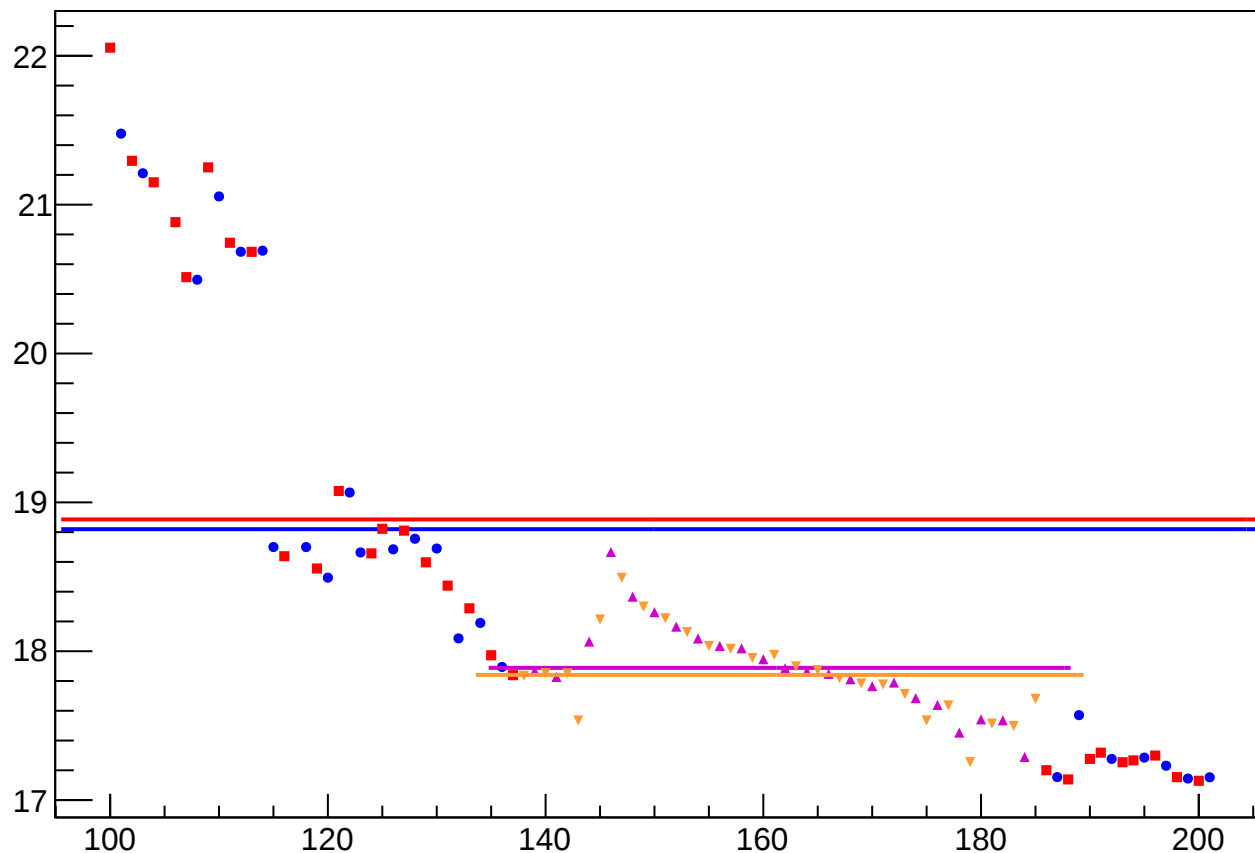
Right: 0.098 $\pm$ 0.000 χ^2 /NDF: 8397197.5/51

In: 0.072 $\pm$ 0.000 χ^2 /NDF: 5932085.6/46

Out: 0.072 $\pm$ 0.000 χ^2 /NDF: 7231692.3/52

All: 0.072 $\pm$ 0.000 χ^2 /NDF: 13163987.5/99

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.820+/-0.000 χ^2/NDF : 25137460260.4/23

Left Out: 17.841+/-0.000 χ^2/NDF : 1283287989.7/24

Right Out: 18.885+/-0.000 χ^2/NDF : 27795281441.2/27

Left In: 17.888+/-0.000 χ^2/NDF : 1203002311.3/22

Left: 17.864+/-0.000 χ^2/NDF : 2506375288.6/47

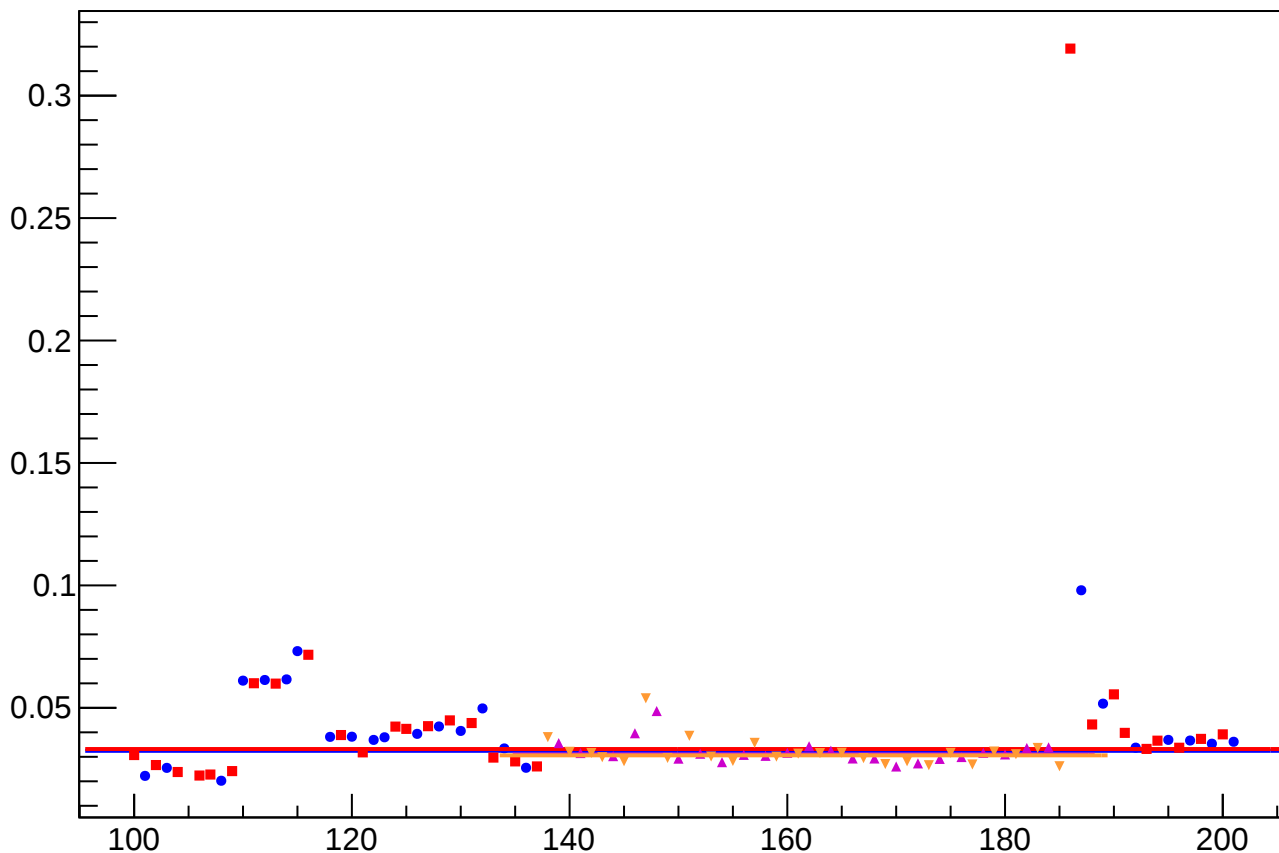
Right: 18.854+/-0.000 χ^2/NDF : 52953528955.2/51

In: 18.216+/-0.000 χ^2/NDF : 31634432346.4/46

Out: 18.207+/-0.000 χ^2/NDF : 36193269769.8/52

All: 18.211+/-0.000 χ^2/NDF : 67828825685.6

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.000 χ^2 /NDF: 1690004.8/23

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 2121843.2/27

Left In: 0.031 $\pm$ 0.000 χ^2 /NDF:453524.6/22

Left: 0.031 $\pm$ 0.000 χ^2 /NDF: 1045553.8/47

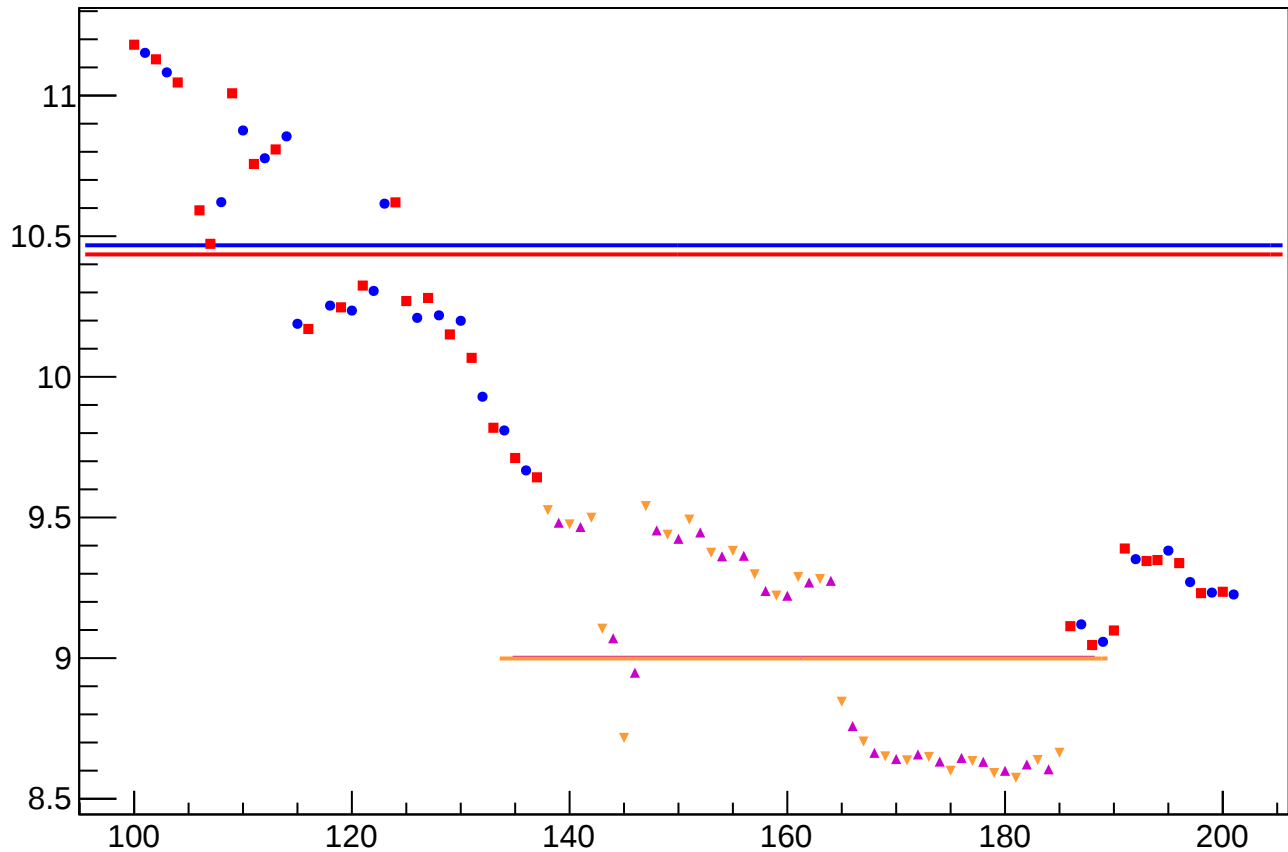
Right: 0.033 $\pm$ 0.000 χ^2 /NDF: 3816981.5/51

In: 0.031 $\pm$ 0.000 χ^2 /NDF:2172941.6/46

Out: 0.032 $\pm$ 0.000 χ^2 /NDF:2798751.2/52

All: 0.031 $\pm$ 0.000 χ^2 /NDF: 4971797.4/99

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.468 $\pm$ 0.000 χ^2 /NDF: 11409612730.6/23

Left Out: 8.999 $\pm$ 0.000 χ^2 /NDF: 6392583736.5/24

Right Out: 10.435 $\pm$ 0.000 χ^2 /NDF: 10621320025.2/27

Left In: 9.001 $\pm$ 0.000 χ^2 /NDF: 5314536205.4/22

Left: 9.000 $\pm$ 0.000 χ^2 /NDF: 11707260677.5/47

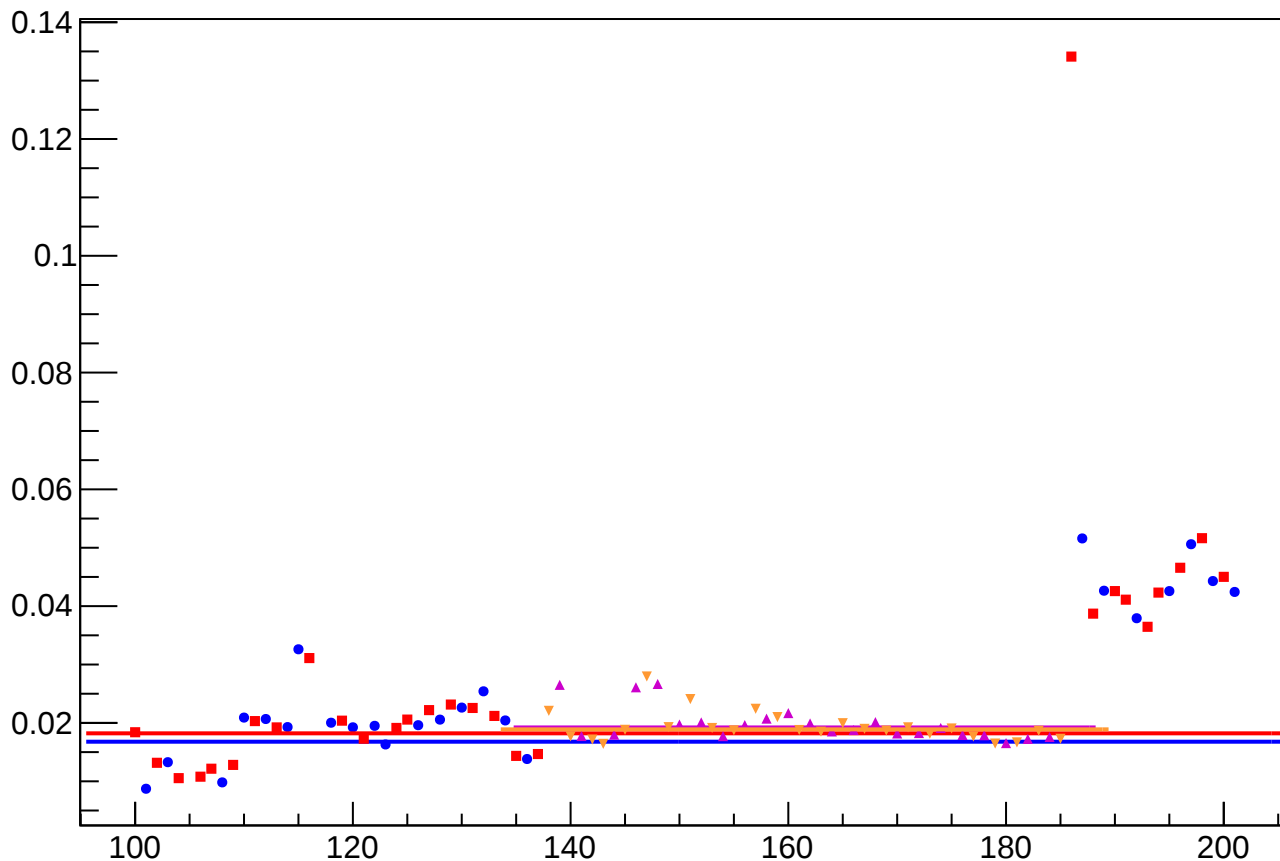
Right: 10.452 $\pm$ 0.000 χ^2 /NDF: 22045868988.1/51

In: 9.588 $\pm$ 0.000 χ^2 /NDF: 53531471636.3/46

Out: 9.538 $\pm$ 0.000 χ^2 /NDF: 53405699883.2/52

All: 9.562 $\pm$ 0.000 χ^2 /NDF: 107027281914.2

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 5179870.6/23

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.018+/-0.000 χ^2/NDF : 5556119.3/27

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

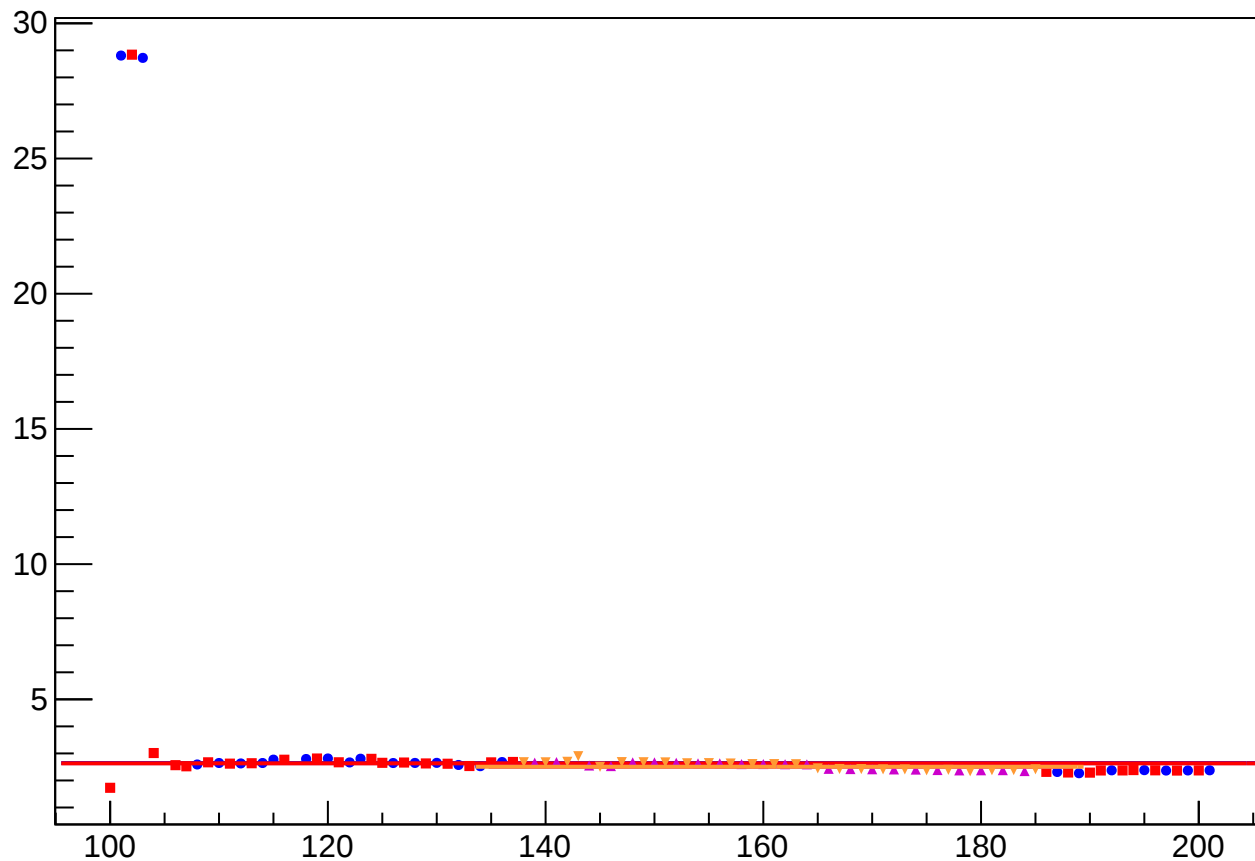
Right: 0.017+/-0.000 χ^2/NDF : 10794386.3/51

In: 0.018+/-0.000 χ^2/NDF : 5865978.4/46

Out: 0.019+/-0.000 χ^2/NDF : 6000635.2/52

All: 0.018+/-0.000 χ^2/NDF : 11877960.8/99

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.643 $\pm$ 0.000 χ^2 /NDF: 171944872052.9/23

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.633 $\pm$ 0.000 χ^2 /NDF: 82971380263.0/27

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

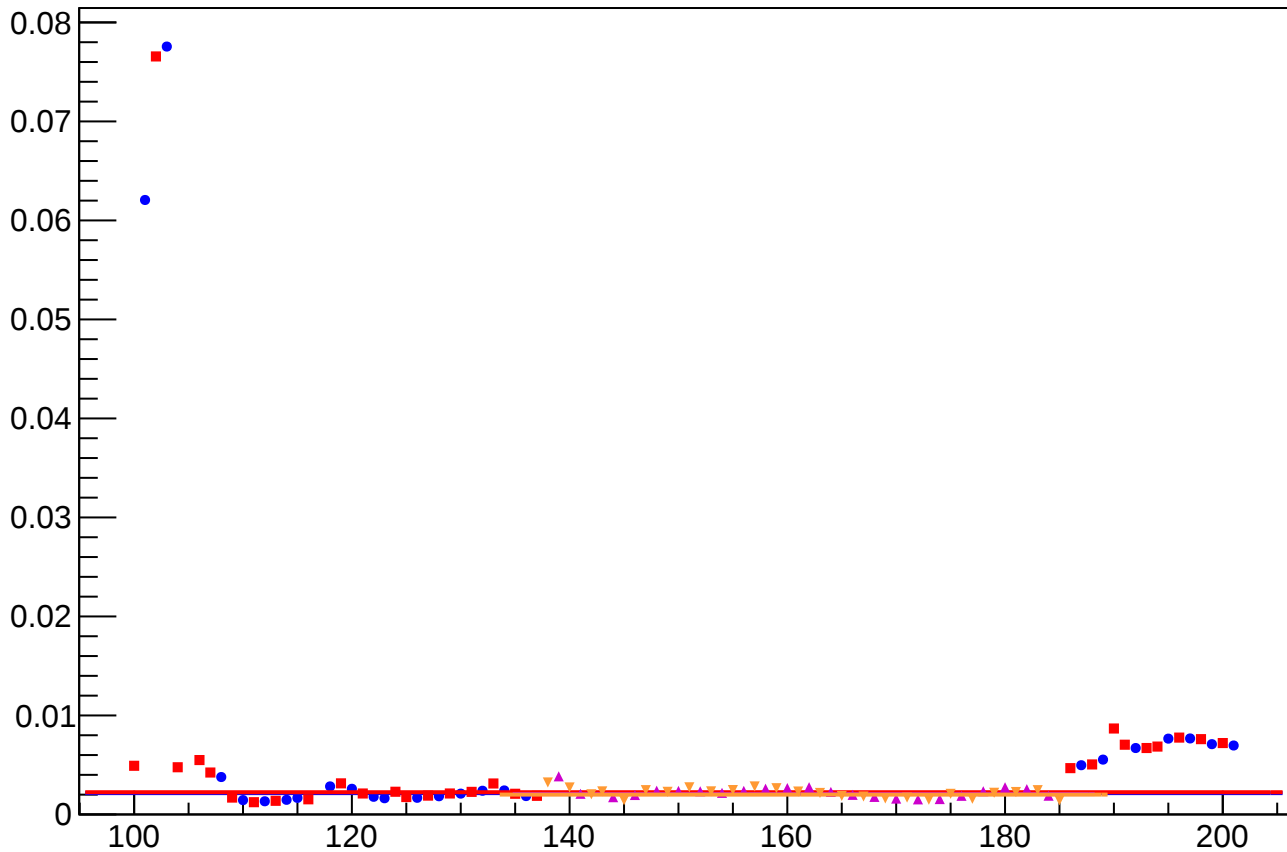
Right: 2.638 $\pm$ 0.000 χ^2 /NDF: 254988594068.4/51

In: 2.547 $\pm$ 0.000 χ^2 /NDF: 233886229143.1/46

Out: 2.544 $\pm$ 0.000 χ^2 /NDF: 164631360882.8/52

All: 2.546 $\pm$ 0.000 χ^2 /NDF: 398539489269.8

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 7322102.6/23

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 7816600.7/27

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

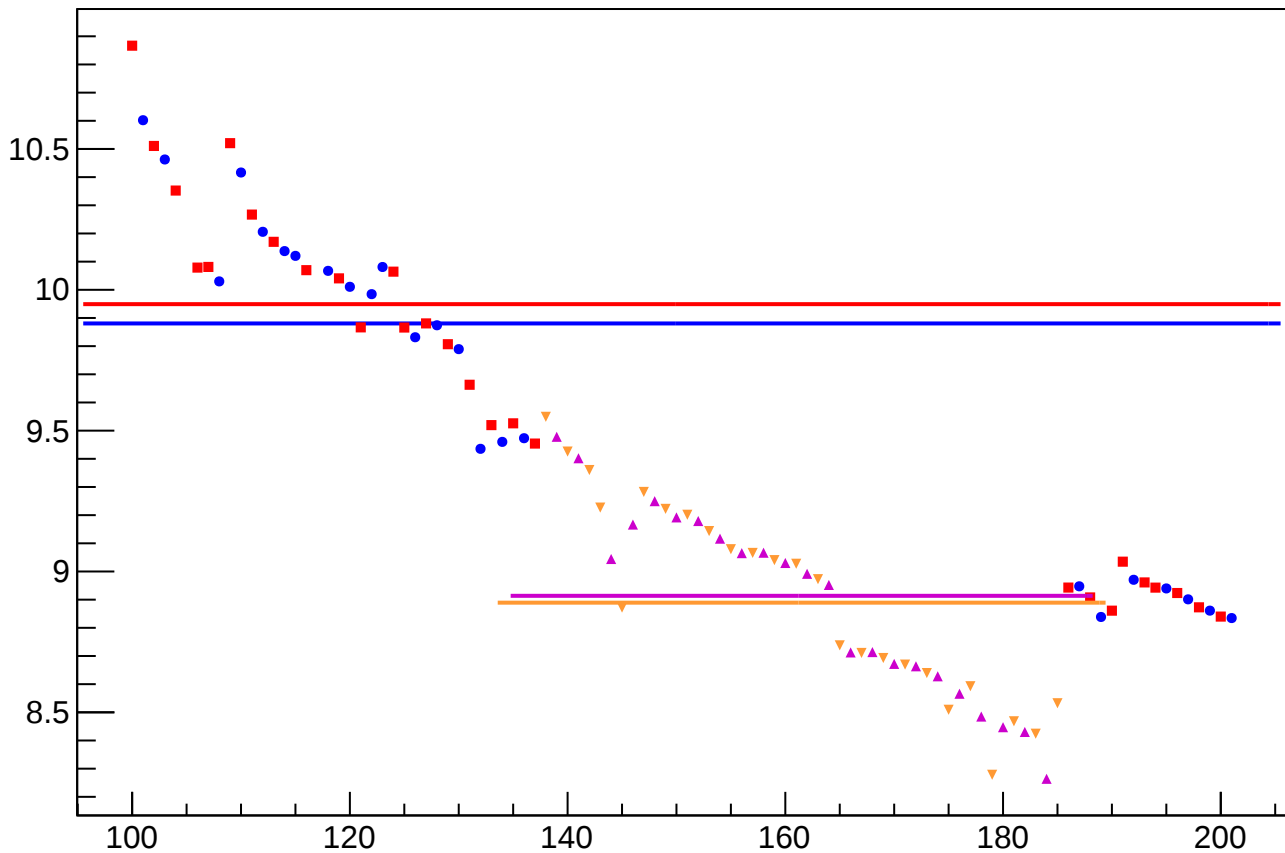
Right: 0.002+/-0.000 χ^2/NDF : 15151060.0/51

In: 0.002+/-0.000 χ^2/NDF :8643700.5/46

Out: 0.002+/-0.000 χ^2/NDF :9409807.8/52

All: 0.002+/-0.000 χ^2/NDF : 18054064.8/99

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.881 $\pm$ 0.000 χ^2 /NDF: 40352644975.8/23

Left Out: 8.889 $\pm$ 0.000 χ^2 /NDF:34704694045.9/24

Right Out: 9.949 $\pm$ 0.000 χ^2 /NDF: 44222848355.0/27

Left In: 8.914 $\pm$ 0.000 χ^2 /NDF:28497227562.7/22

Left: 8.901 $\pm$ 0.000 χ^2 /NDF: 63312247922.6/47

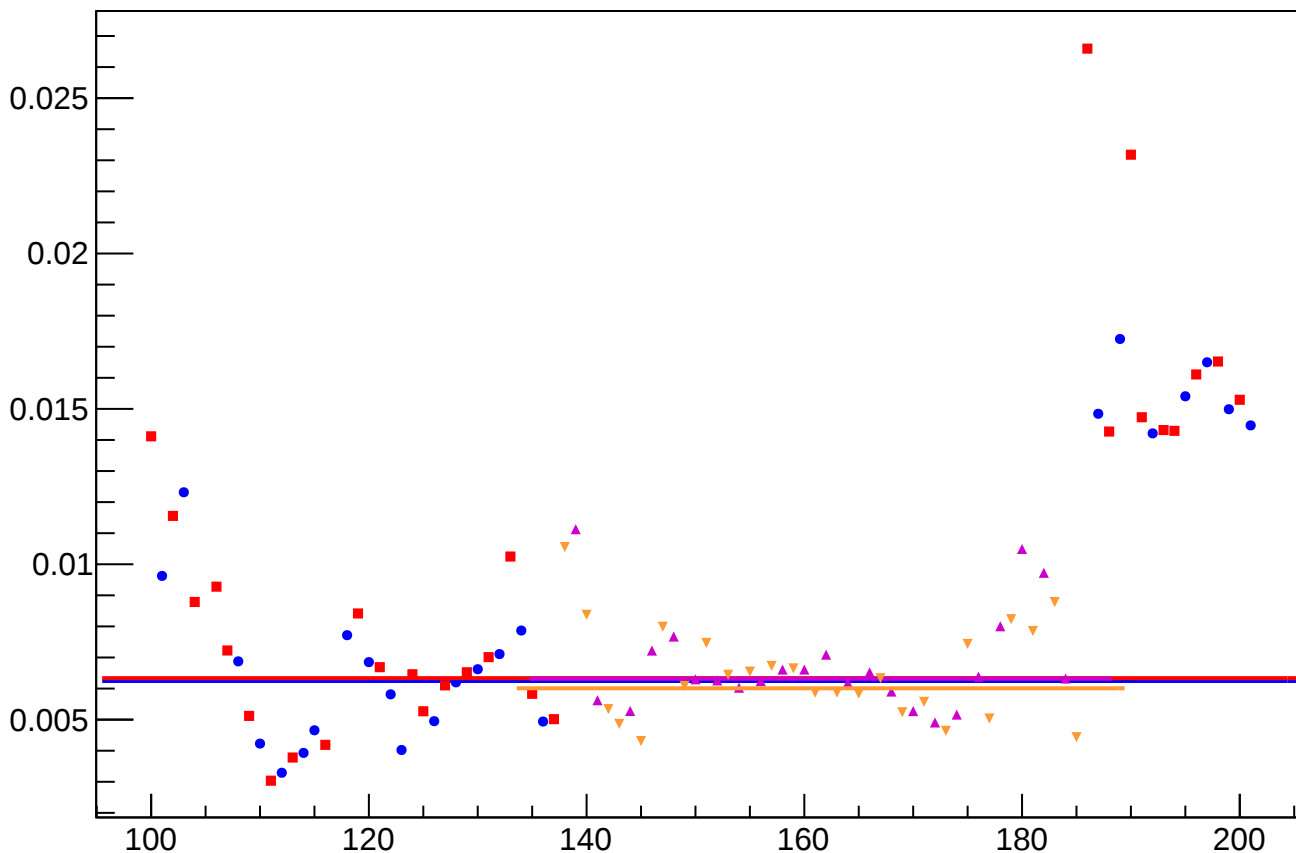
Right: 9.916 $\pm$ 0.000 χ^2 /NDF: 85063396745.7/51

In: 9.268 $\pm$ 0.000 χ^2 /NDF:188025484497.4/46

Out: 9.258 $\pm$ 0.000 χ^2 /NDF:236380849673.2/52

All: 9.263 $\pm$ 0.000 χ^2 /NDF: 424431469908.4

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 4794628.6/23

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 6313703.0/27

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

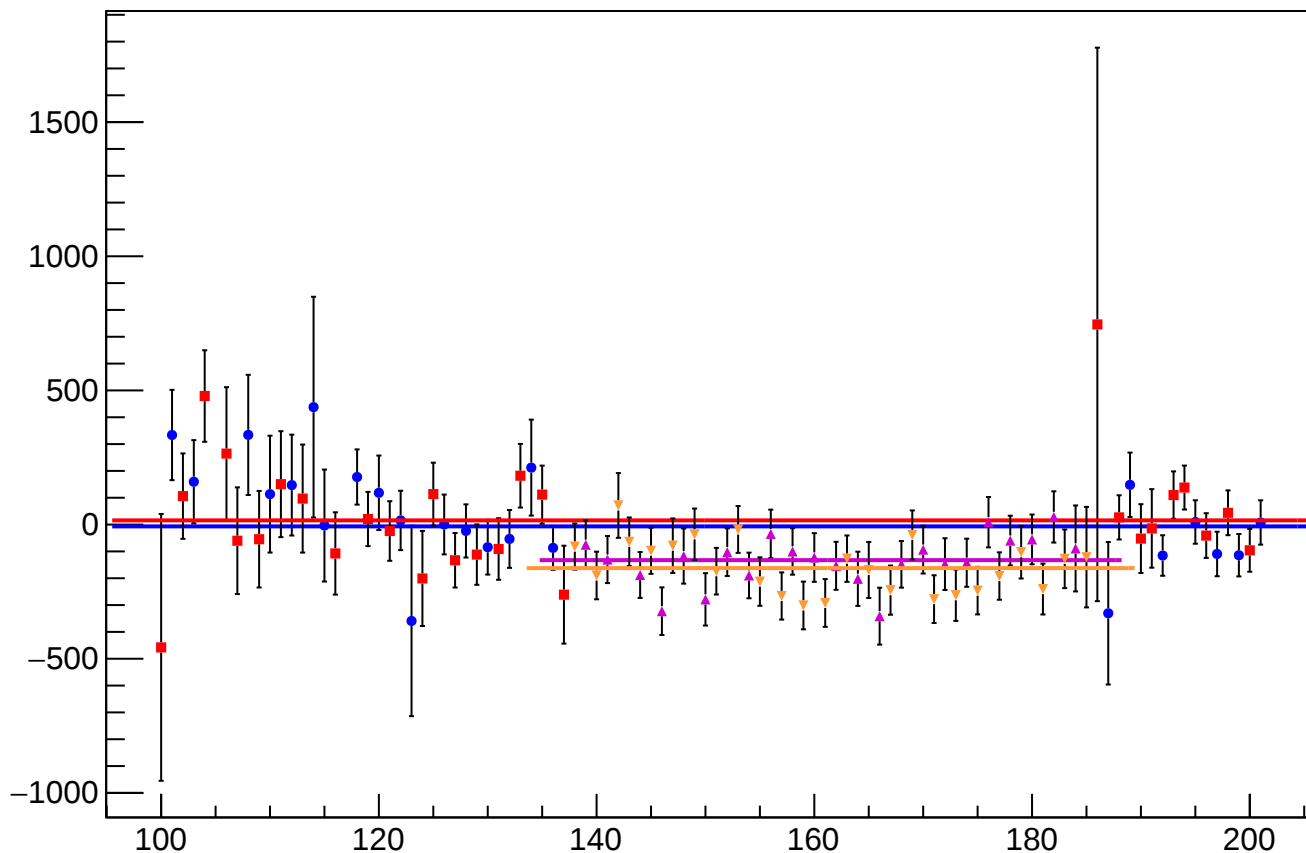
Right: 0.006+/-0.000 χ^2/NDF : 11110061.6/51

In: 0.006+/-0.000 χ^2/NDF :5883073.0/46

Out: 0.006+/-0.000 χ^2/NDF :7656076.1/52

All: 0.006+/-0.000 χ^2/NDF : 13555613.5/99

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -6.723 ± 23.442 $\chi^2/\text{NDF}: 26.7/23$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: 15.661 ± 22.685 $\chi^2/\text{NDF}: 29.6/27$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

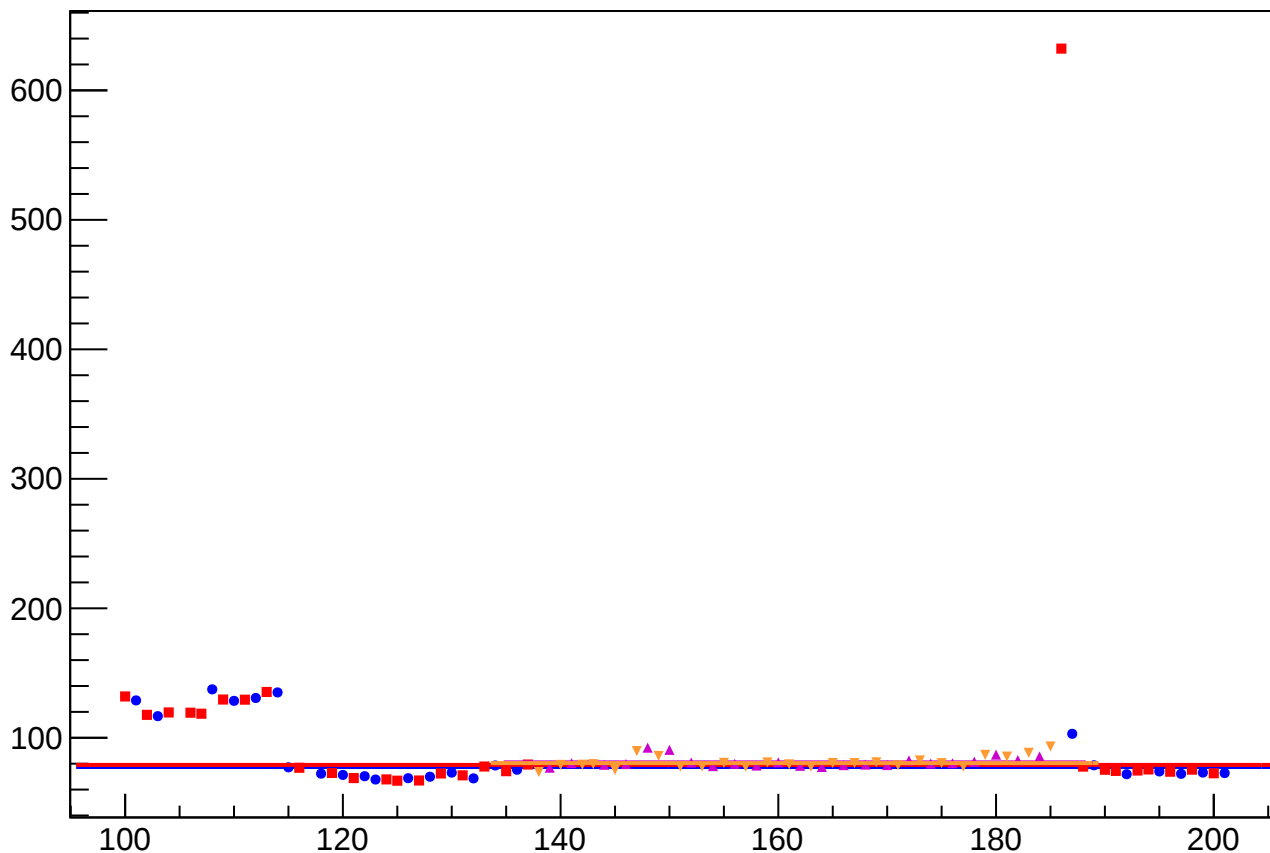
Right: 4.836 ± 16.302 $\chi^2/\text{NDF}: 56.8/51$

In: -81.398 ± 14.947 $\chi^2/\text{NDF}: 64.5/46$

Out: -90.012 ± 14.450 $\chi^2/\text{NDF}: 91.8/52$

All: -85.850 ± 10.389 $\chi^2/\text{NDF}: 156.5/99$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 77.445 $\pm$ 0.017 χ^2 /NDF: 882823.2/23

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 79.043 $\pm$ 0.016 χ^2 /NDF: 1546111.8/27

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

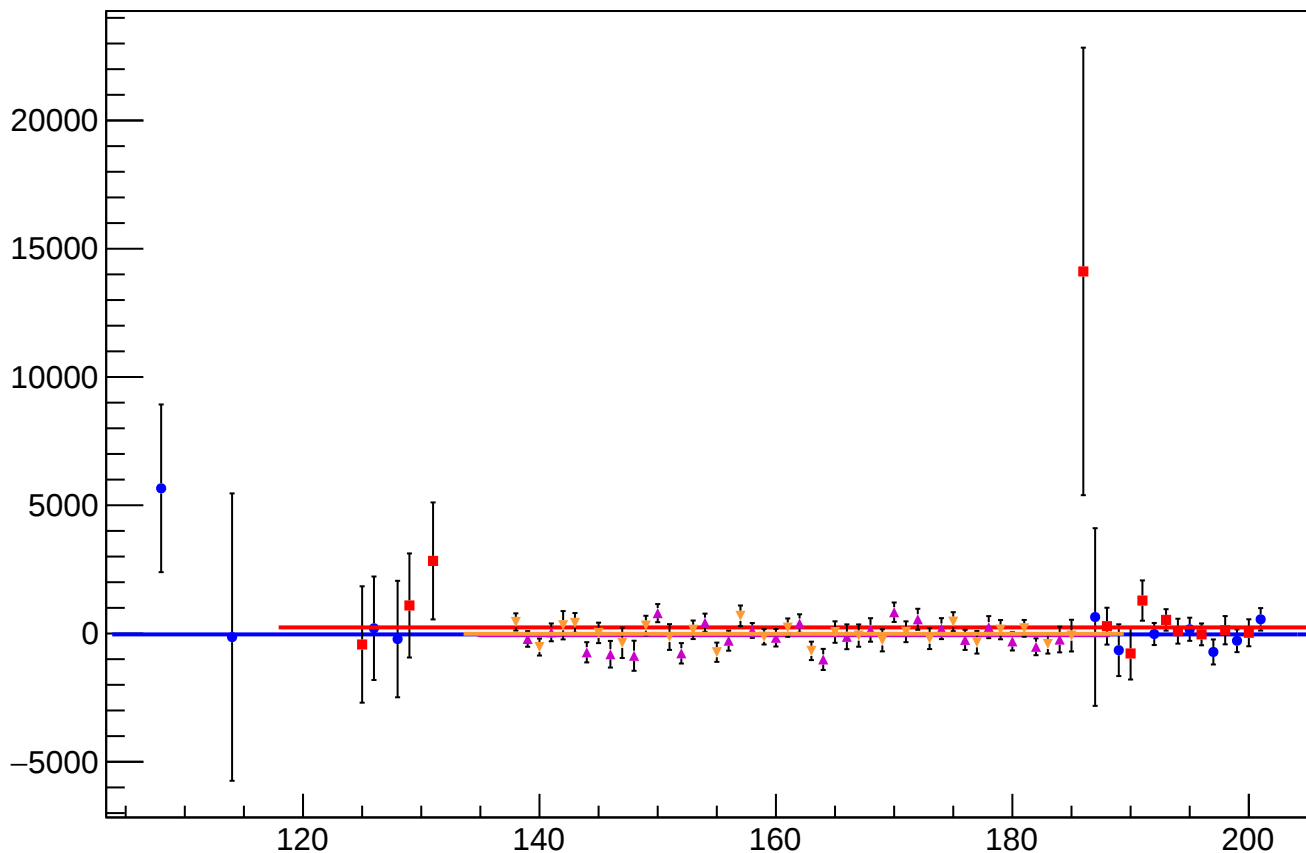
Right: 78.270 $\pm$ 0.012 χ^2 /NDF: 2433734.6/51

In: 79.563 $\pm$ 0.011 χ^2 /NDF: 982577.6/46

Out: 79.884 $\pm$ 0.010 χ^2 /NDF: 1640680.7/52

All: 79.729 $\pm$ 0.007 χ^2 /NDF: 2623736.4/99

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -34.168 $\pm$ 194.494 χ^2/NDF : 7.7/10

Left Out: -10.486 $\pm$ 78.391 χ^2/NDF : 22.5/24

Right Out: 238.059 $\pm$ 190.487 χ^2/NDF : 8.1/11

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

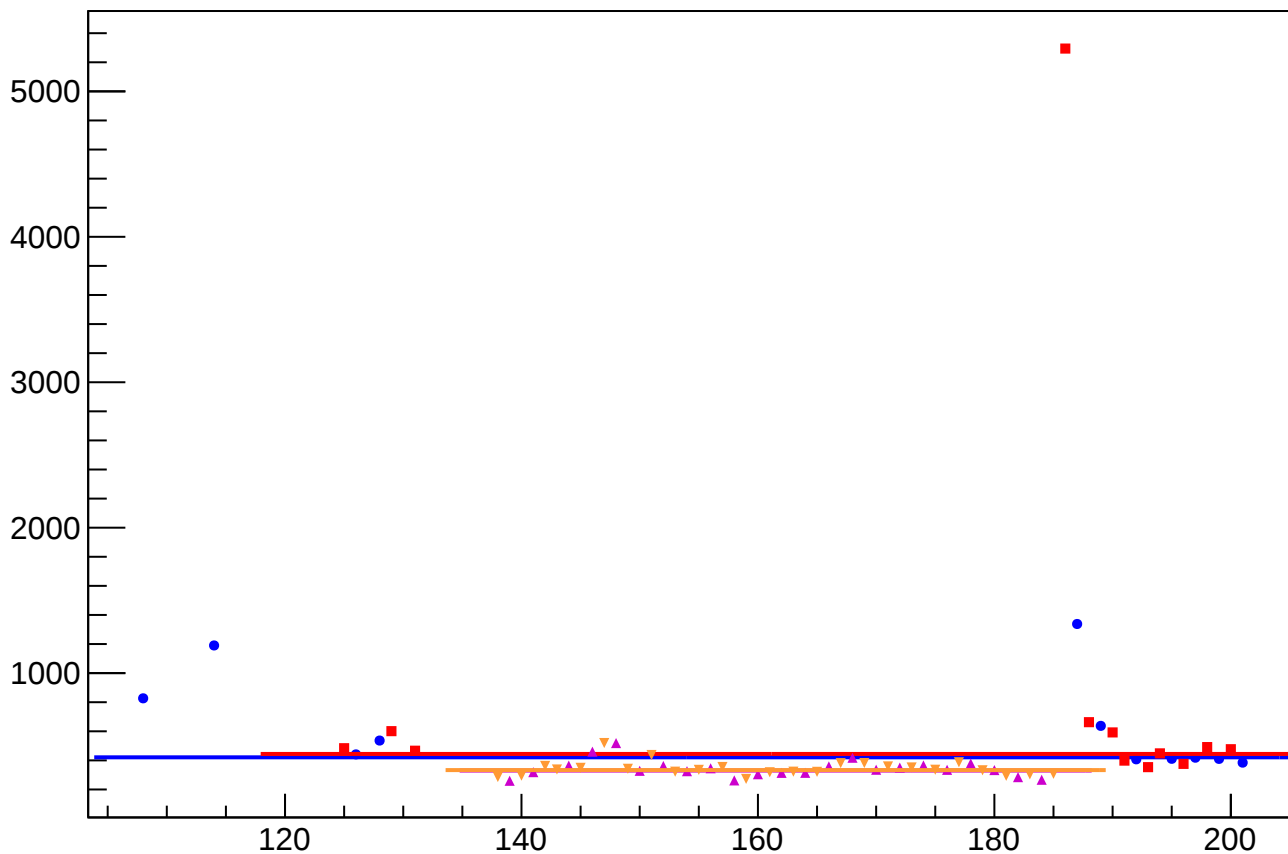
Right: 104.779 $\pm$ 136.089 χ^2/NDF : 16.8/22

In: -60.184 $\pm$ 74.023 χ^2/NDF : 45.2/33

Out: 25.510 $\pm$ 72.492 χ^2/NDF : 32.1/36

All: -16.442 $\pm$ 51.792 χ^2/NDF : 77.9/70

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 421.071+/-0.138 χ^2/NDF : 324105.2/10

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 444.304+/-0.135 χ^2/NDF : 1033142.7/11

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

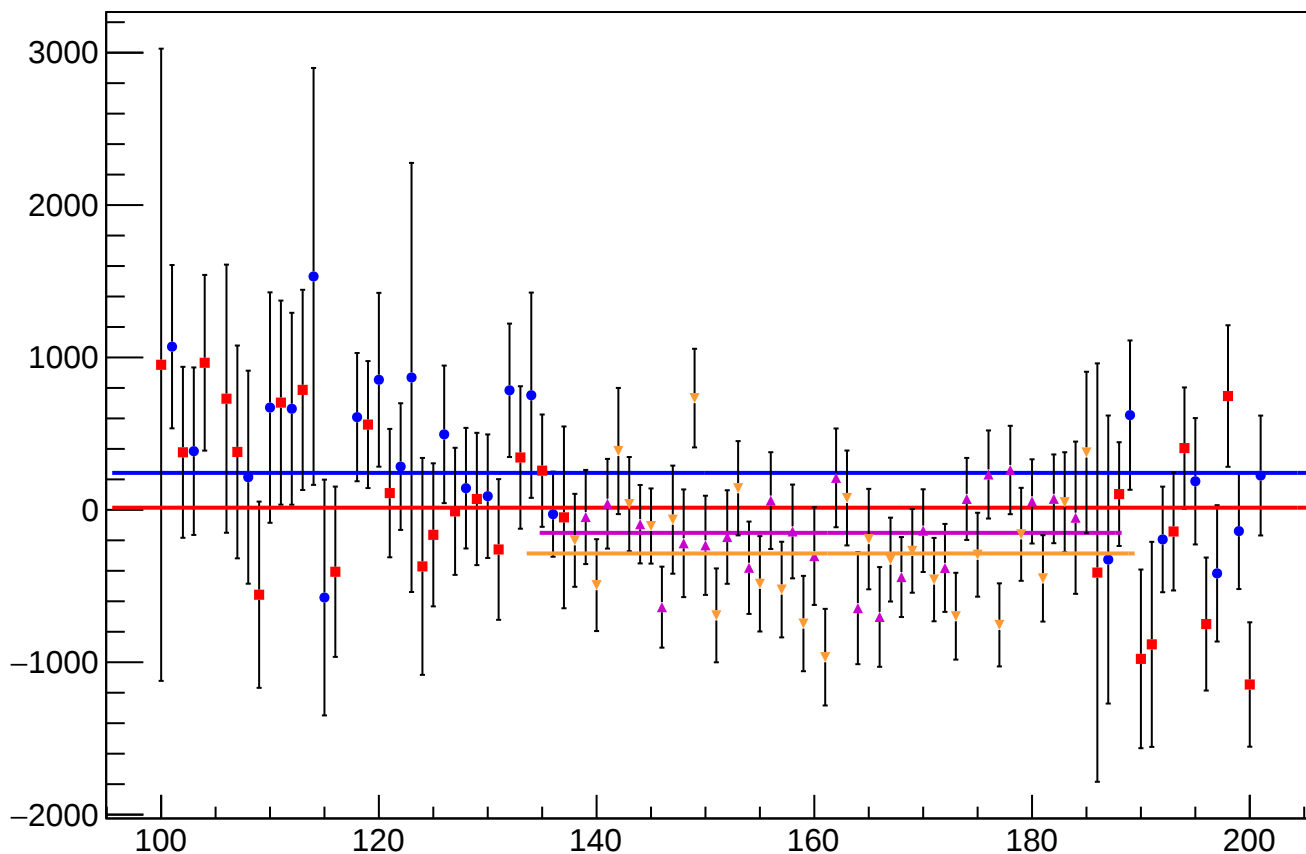
Right: 432.929+/-0.096 χ^2/NDF : 1371814.7/22

In: 343.179+/-0.052 χ^2/NDF : 1495182.6/33

Out: 349.319+/-0.051 χ^2/NDF : 2206769.6/36

All: 346.313+/-0.037 χ^2/NDF : 3708977.1/70

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 242.648 $\pm$ 97.225 χ^2/NDF : 16.7/23

Left Out: -286.030 $\pm$ 61.095 χ^2/NDF :36.6/24

Right Out: 14.173 $\pm$ 94.587 χ^2/NDF : 31.3/27

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

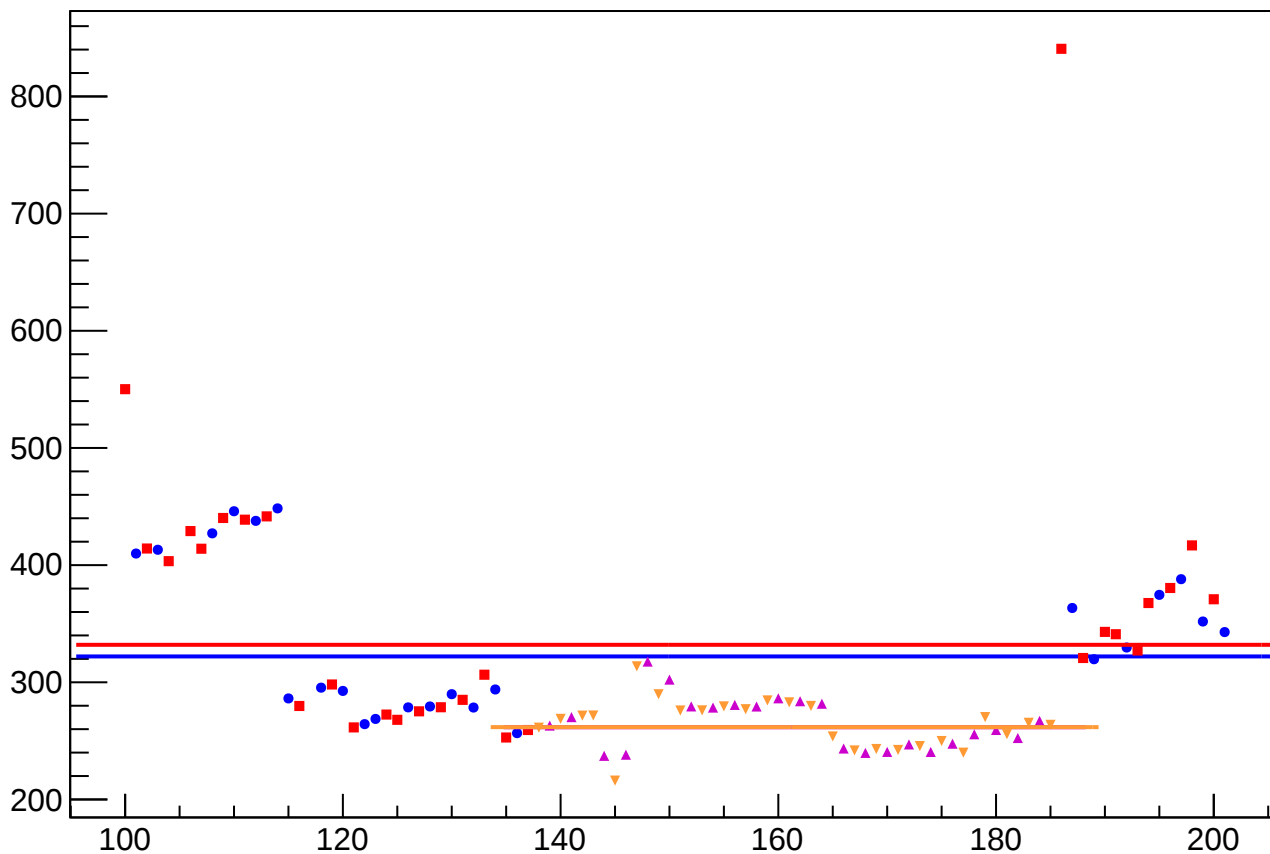
Right: 125.269 $\pm$ 67.797 χ^2/NDF : 50.8/51

In: -35.010 $\pm$ 52.763 χ^2/NDF :46.9/46

Out: -197.656 $\pm$ 51.320 χ^2/NDF :74.9/52

All: -118.587 $\pm$ 36.788 χ^2/NDF : 126.7/99

reg_asym_sam2_rms vs Slug, Sign Corrected



Left: 261.680 ± 0.031 $\chi^2/\text{NDF}: 461465.7/47$

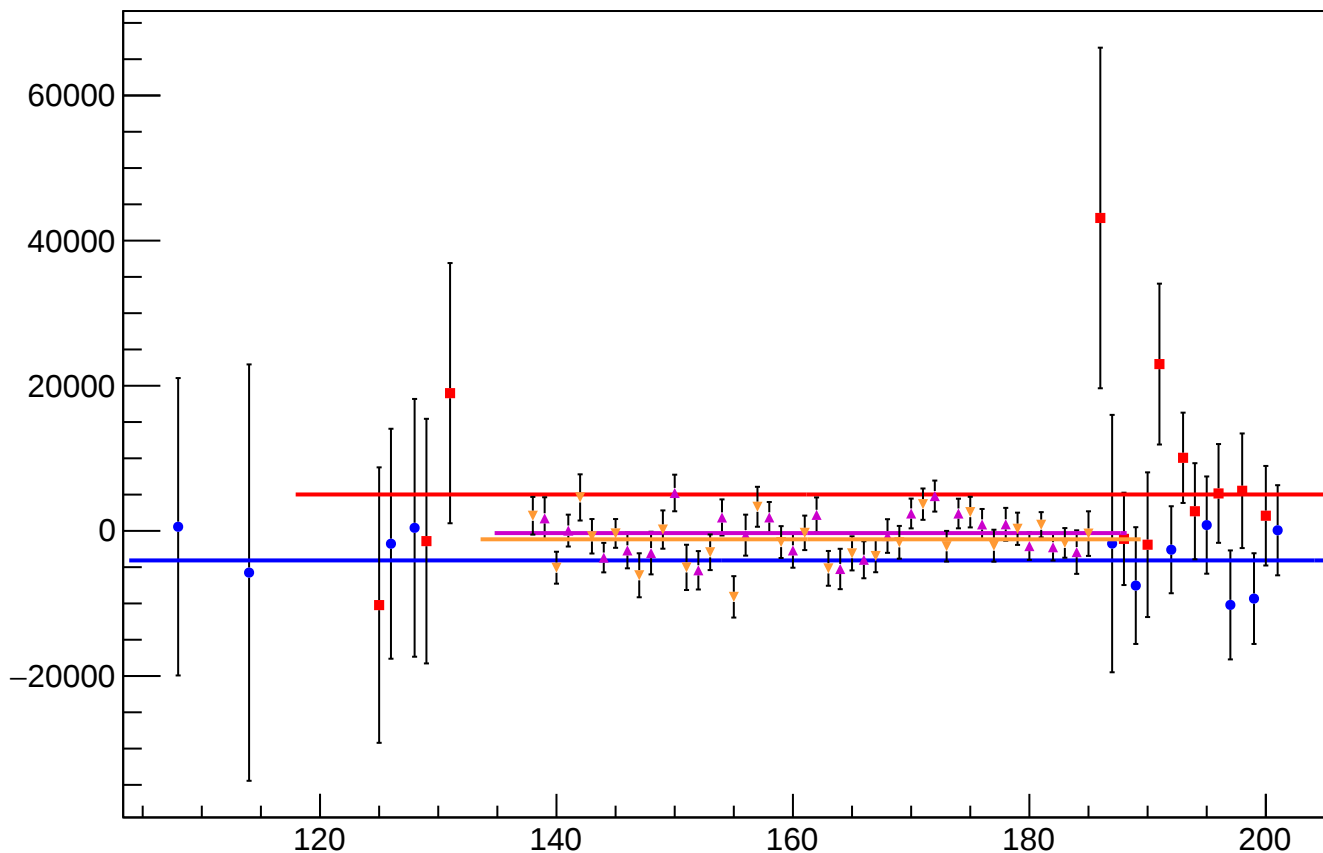
Right: 327.169 ± 0.048 $\chi^2/\text{NDF}: 1722680.5/51$

In: 279.435 ± 0.037 $\chi^2/\text{NDF}: 1410887.3/46$

Out: 282.409 ± 0.036 $\chi^2/\text{NDF}: 2086672.5/52$

All: 280.963 ± 0.026 $\chi^2/\text{NDF}: 3500825.9/99$

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -4070.375 ± 2592.925 $\chi^2/\text{NDF}: 2.8/10$

Left Out: -1161.443 ± 469.036 $\chi^2/\text{NDF}: 38.8/24$

Right Out: 5017.472 ± 2487.317 $\chi^2/\text{NDF}: 9.0/11$

Left In: -304.366 ± 483.778 $\chi^2/\text{NDF}: 35.4/22$

Left: -746.162 ± 336.750 $\chi^2/\text{NDF}: 75.7/47$

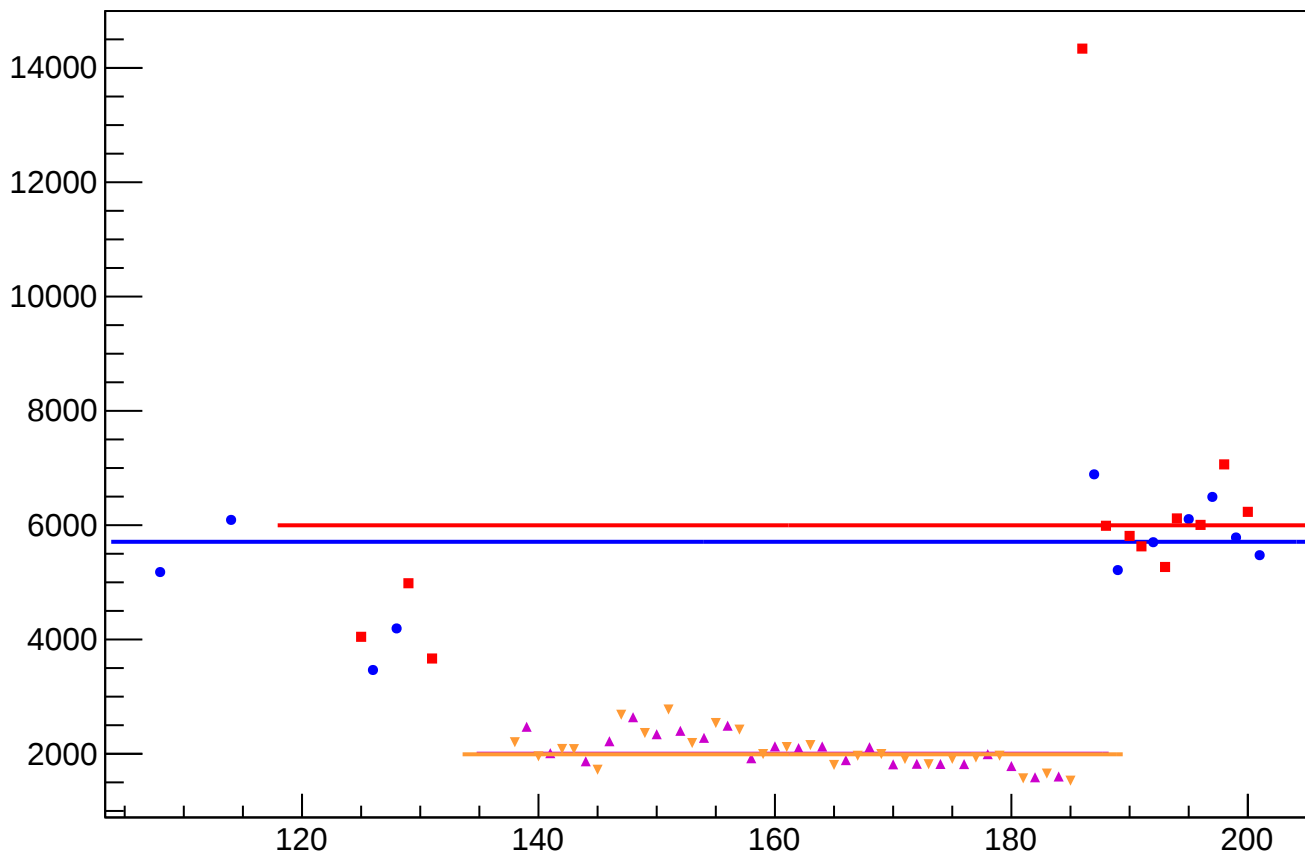
Right: 662.385 ± 1794.973 $\chi^2/\text{NDF}: 18.2/22$

In: -431.053 ± 475.572 $\chi^2/\text{NDF}: 40.2/33$

Out: -949.271 ± 460.913 $\chi^2/\text{NDF}: 53.8/36$

All: -698.272 ± 330.976 $\chi^2/\text{NDF}: 94.5/70$

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5709.278+/-1.833 χ^2/NDF : 104779.5/10

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5997.789+/-1.759 χ^2/NDF : 384559.2/11

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

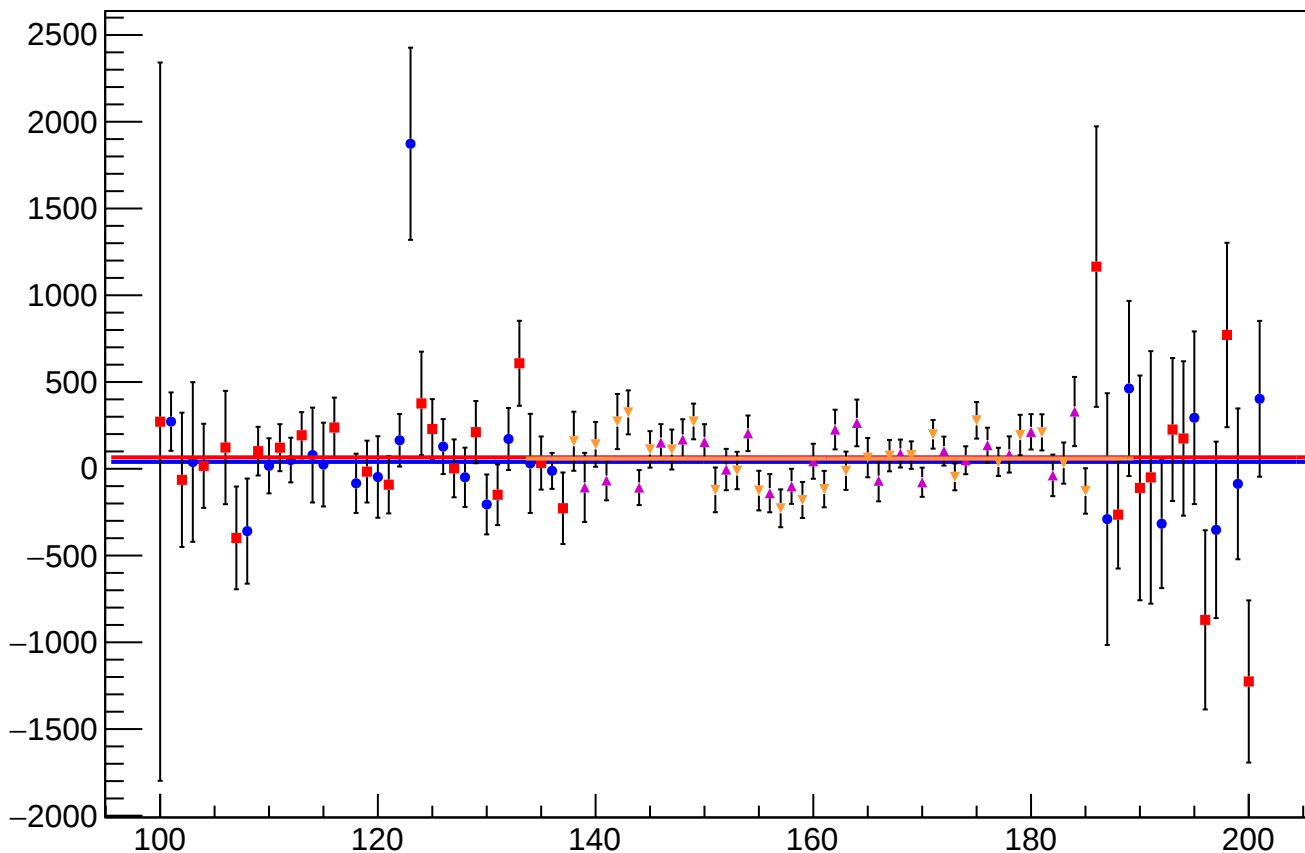
Right: 5859.529+/-1.269 χ^2/NDF : 502234.0/22

In: 2126.860+/-0.336 χ^2/NDF : 4641329.9/33

Out: 2128.686+/-0.326 χ^2/NDF : 6122315.5/36

All: 2127.802+/-0.234 χ^2/NDF : 10763660.7/71

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 39.711 $\pm$ 42.390 χ^2/NDF : 22.8/23

Left Out: 58.983 $\pm$ 21.137 χ^2/NDF : 46.9/24

Right Out: 66.185 $\pm$ 41.720 χ^2/NDF : 33.2/27

Left In: 59.235 $\pm$ 21.921 χ^2/NDF : 29.4/22

Left: 59.104 $\pm$ 15.216 χ^2/NDF : 76.3/47

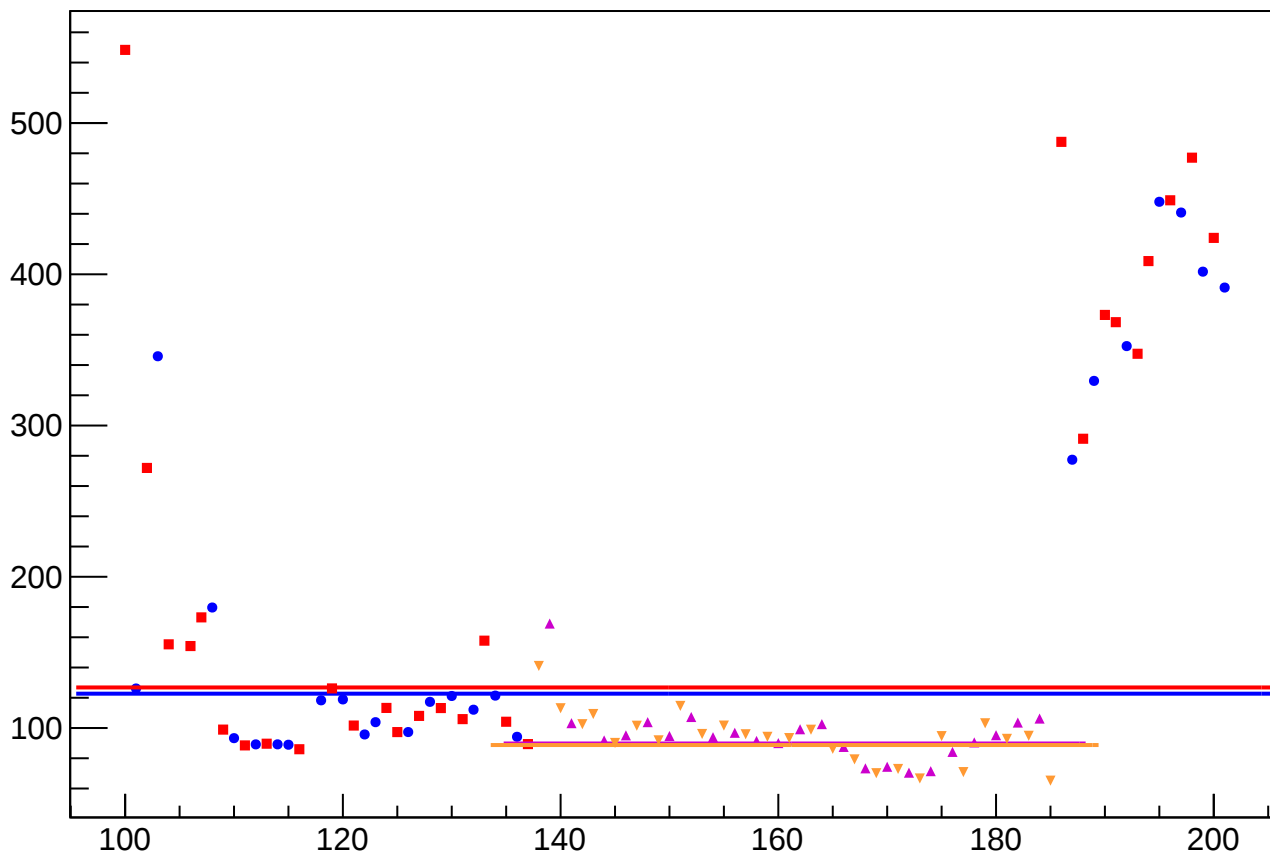
Right: 53.159 $\pm$ 29.734 χ^2/NDF : 56.2/51

In: 55.115 $\pm$ 19.472 χ^2/NDF : 52.4/46

Out: 60.454 $\pm$ 18.855 χ^2/NDF : 80.1/52

All: 57.870 $\pm$ 13.545 χ^2/NDF : 132.5/99

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 122.704 $\pm$ 0.030 χ^2 /NDF: 5465730.1/23

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF: 1079338.8/24

Right Out: 126.817 $\pm$ 0.030 χ^2 /NDF: 6582493.8/27

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

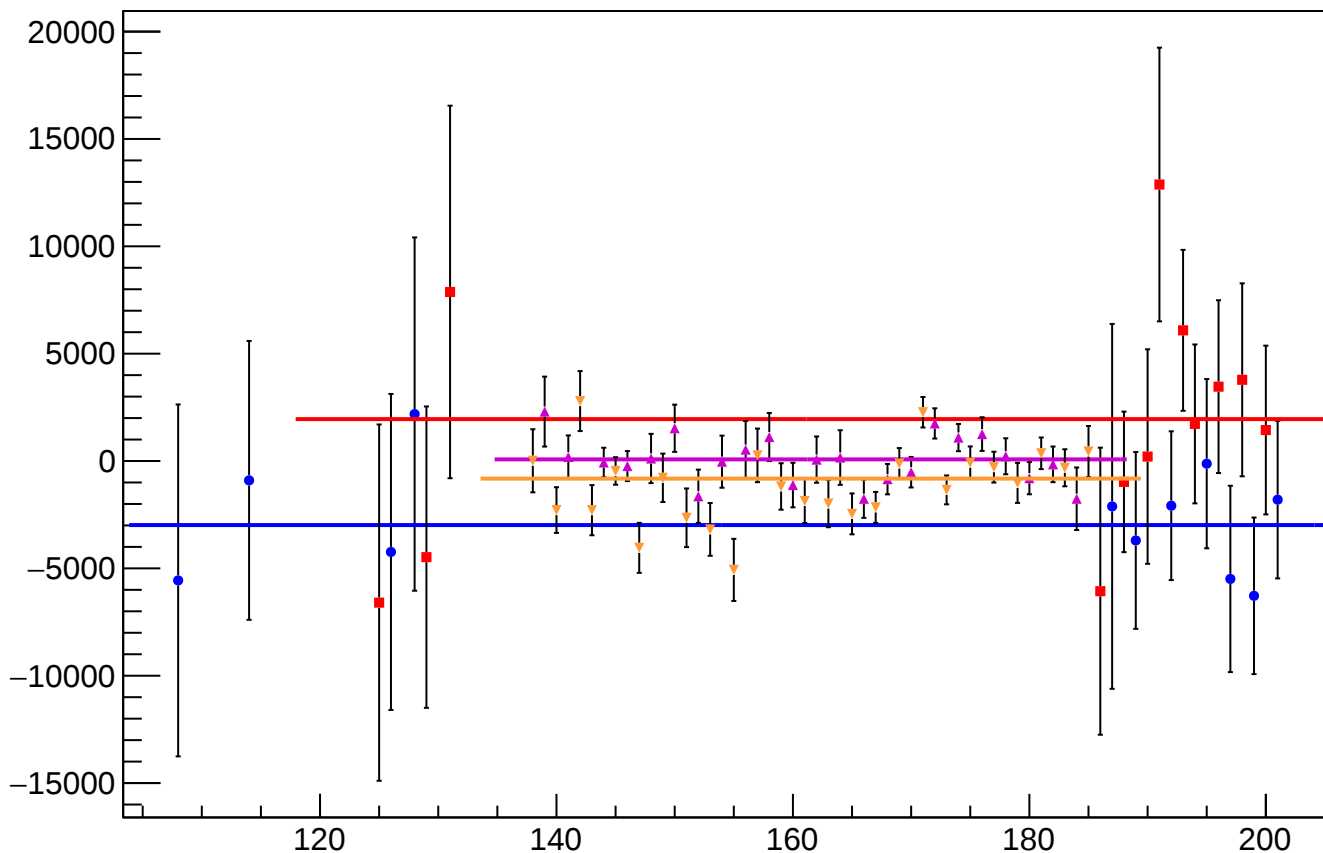
Right: 124.794 $\pm$ 0.021 χ^2 /NDF: 12057787.0/51

In: 96.716 $\pm$ 0.014 χ^2 /NDF: 7304333.6/46

Out: 96.524 $\pm$ 0.013 χ^2 /NDF: 8986963.8/52

All: 96.617 $\pm$ 0.010 χ^2 /NDF: 16291397.3/99

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2983.243 $\pm$ 1421.393 χ^2 /NDF: 2.5/10

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: 1951.777 $\pm$ 1349.925 χ^2 /NDF: 9.2/11

Left In: 76.204 $\pm$ 186.651 χ^2 /NDF:28.3/22

Left: -376.610 $\pm$ 131.202 χ^2 /NDF: 108.1/47

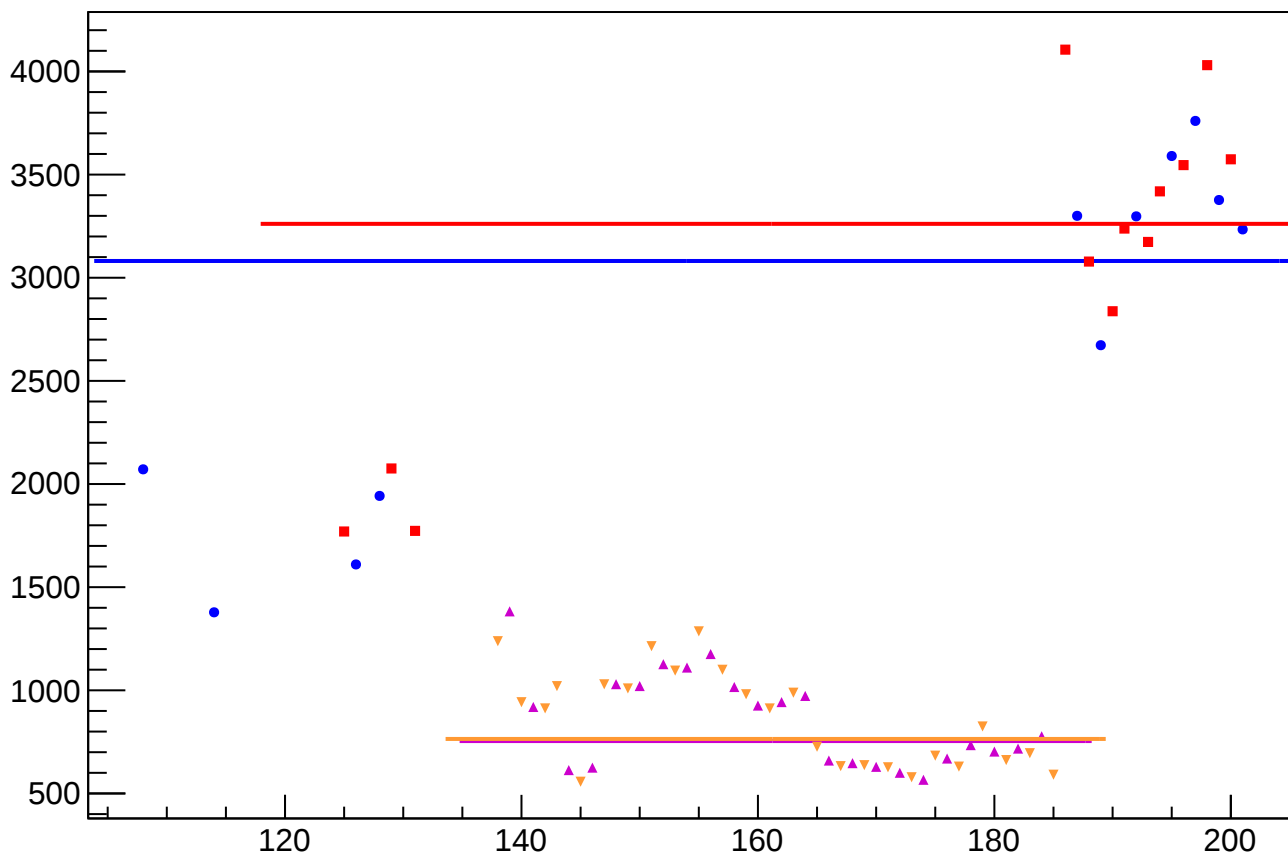
Right: -388.551 $\pm$ 978.832 χ^2 /NDF: 18.1/22

In: 24.342 $\pm$ 185.062 χ^2 /NDF:35.3/33

Out: -768.090 $\pm$ 182.765 χ^2 /NDF:81.6/36

All: -376.821 $\pm$ 130.039 χ^2 /NDF: 126.2/70

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 3081.230+/-1.005 χ^2/NDF : 413839.3/10

Left Out: 764.280+/-0.130 χ^2/NDF : 2315985.8/24

Right Out: 3261.229+/-0.955 χ^2/NDF : 319129.3/11

Left In: 754.027+/-0.132 χ^2/NDF : 2013386.7/22

Left: 759.214+/-0.093 χ^2/NDF : 4332425.4/47

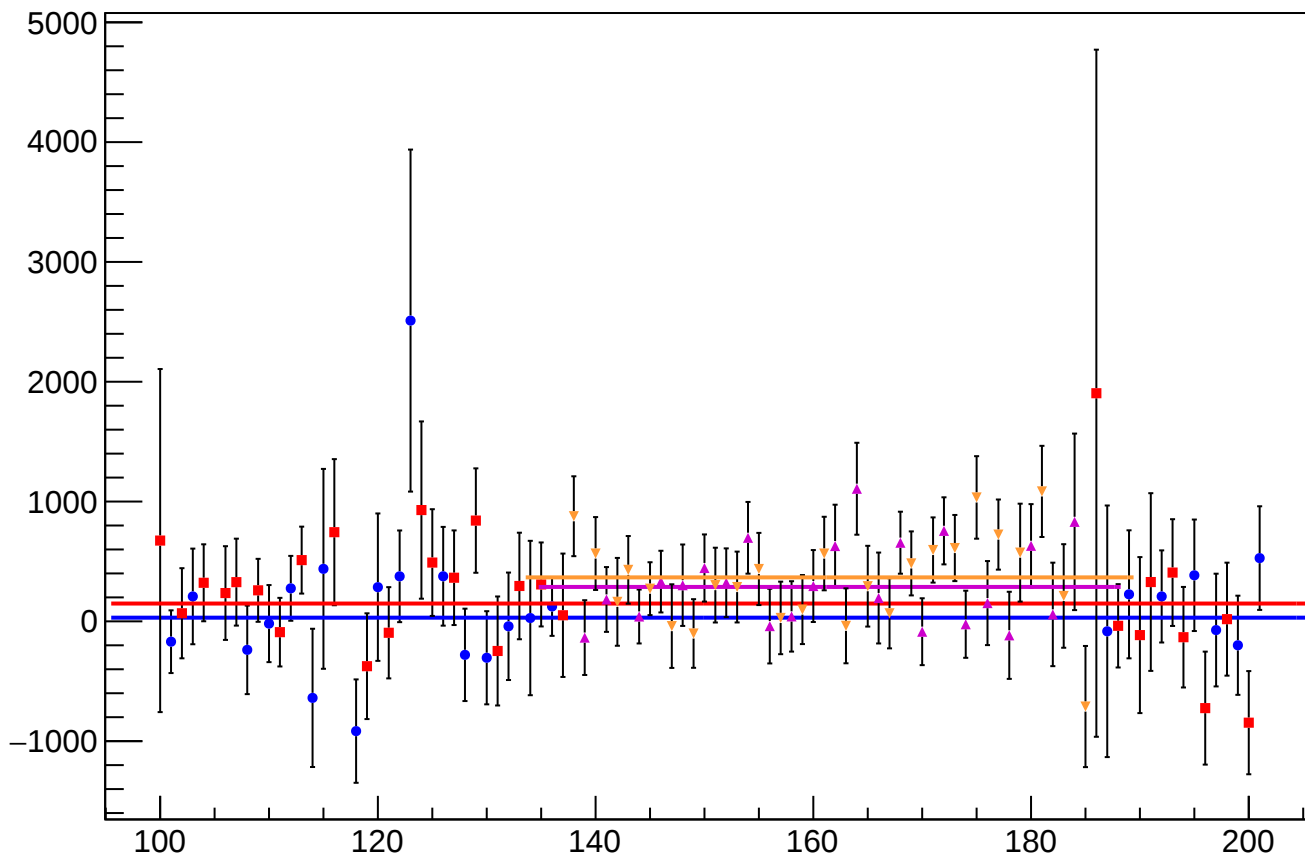
Right: 3175.868+/-0.692 χ^2/NDF : 749831.6/22

In: 793.476+/-0.131 χ^2/NDF : 7697651.9/33

Out: 810.049+/-0.129 χ^2/NDF : 9352427.9/36

All: 801.866+/-0.092 χ^2/NDF : 17058200.0/70

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 30.712 $\pm$ 82.767 χ^2/NDF : 17.4/23

Left Out: 367.028 $\pm$ 61.943 χ^2/NDF : 28.2/24

Right Out: 148.661 $\pm$ 78.180 χ^2/NDF : 22.2/27

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

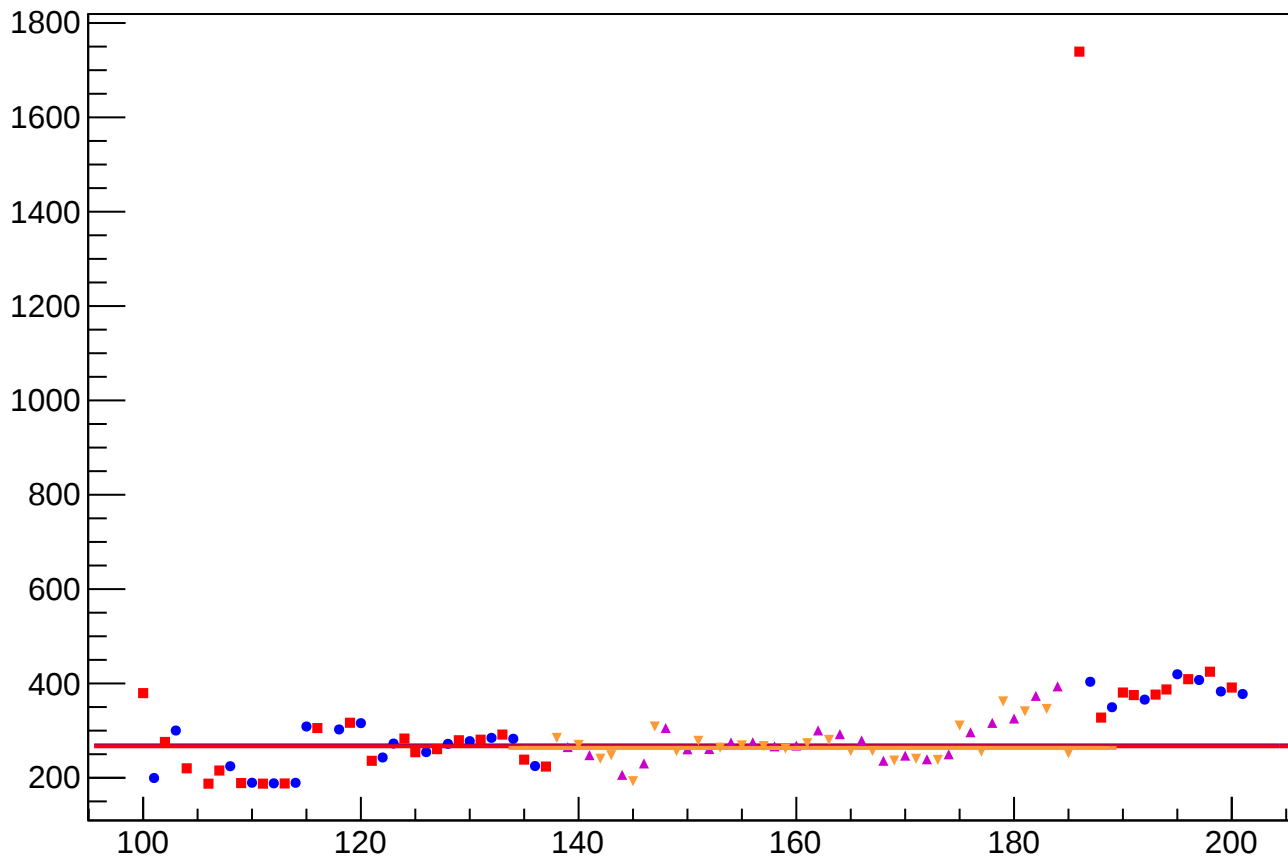
Right: 93.045 $\pm$ 56.834 χ^2/NDF : 40.7/51

In: 190.990 $\pm$ 50.699 χ^2/NDF : 47.3/46

Out: 282.812 $\pm$ 48.551 χ^2/NDF : 55.3/52

All: 238.887 $\pm$ 35.065 χ^2/NDF : 104.3/99

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 268.547 $\pm$ 0.059 χ^2 /NDF: 1493398.3/23

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 266.834 $\pm$ 0.055 χ^2 /NDF: 2305431.9/27

Left In: 264.923 $\pm$ 0.045 χ^2 /NDF: 609024.7/22

Left: 263.981 $\pm$ 0.032 χ^2 /NDF: 1252084.1/47

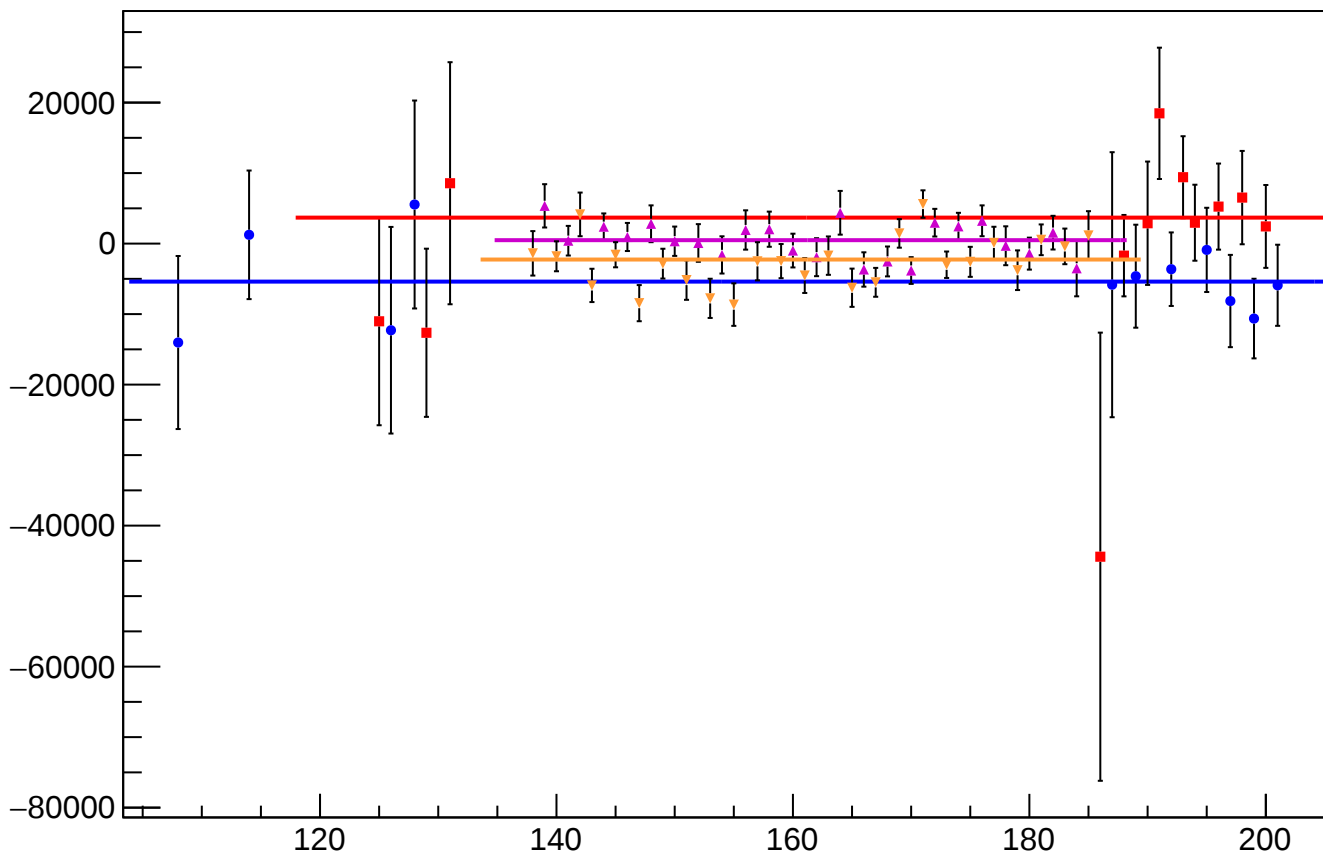
Right: 267.642 $\pm$ 0.040 χ^2 /NDF: 3799283.0/51

In: 266.283 $\pm$ 0.036 χ^2 /NDF: 2104818.9/46

Out: 264.542 $\pm$ 0.034 χ^2 /NDF: 2950456.6/52

All: 265.375 $\pm$ 0.025 χ^2 /NDF: 5056505.7/99

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -5391.327 $\pm$ 2240.417 χ^2 /NDF: 3.5/10

Left Out: -2260.196 $\pm$ 475.336 χ^2 /NDF:52.3/24

Right Out: 3684.091 $\pm$ 2165.474 χ^2 /NDF: 9.9/11

Left In: 485.590 $\pm$ 487.465 χ^2 /NDF:24.8/22

Left: -921.890 $\pm$ 340.321 χ^2 /NDF: 93.4/47

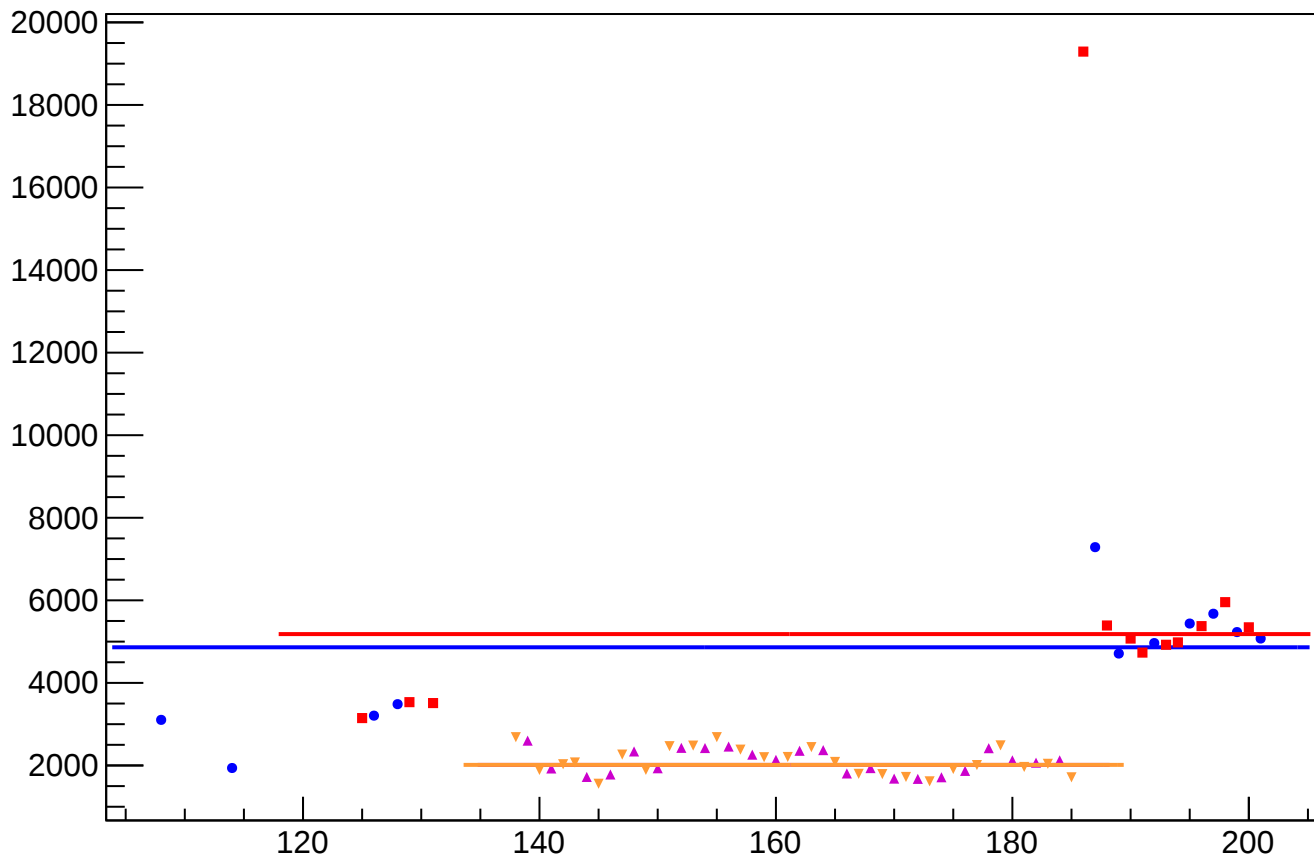
Right: -699.293 $\pm$ 1557.042 χ^2 /NDF: 21.9/22

In: 219.951 $\pm$ 476.321 χ^2 /NDF:34.9/33

Out: -1986.948 $\pm$ 464.282 χ^2 /NDF:69.5/36

All: -911.741 $\pm$ 332.472 χ^2 /NDF: 115.3/70

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4862.432+/-1.584 χ^2/NDF : 385259.1/10

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 5182.292+/-1.531 χ^2/NDF : 534567.2/11

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

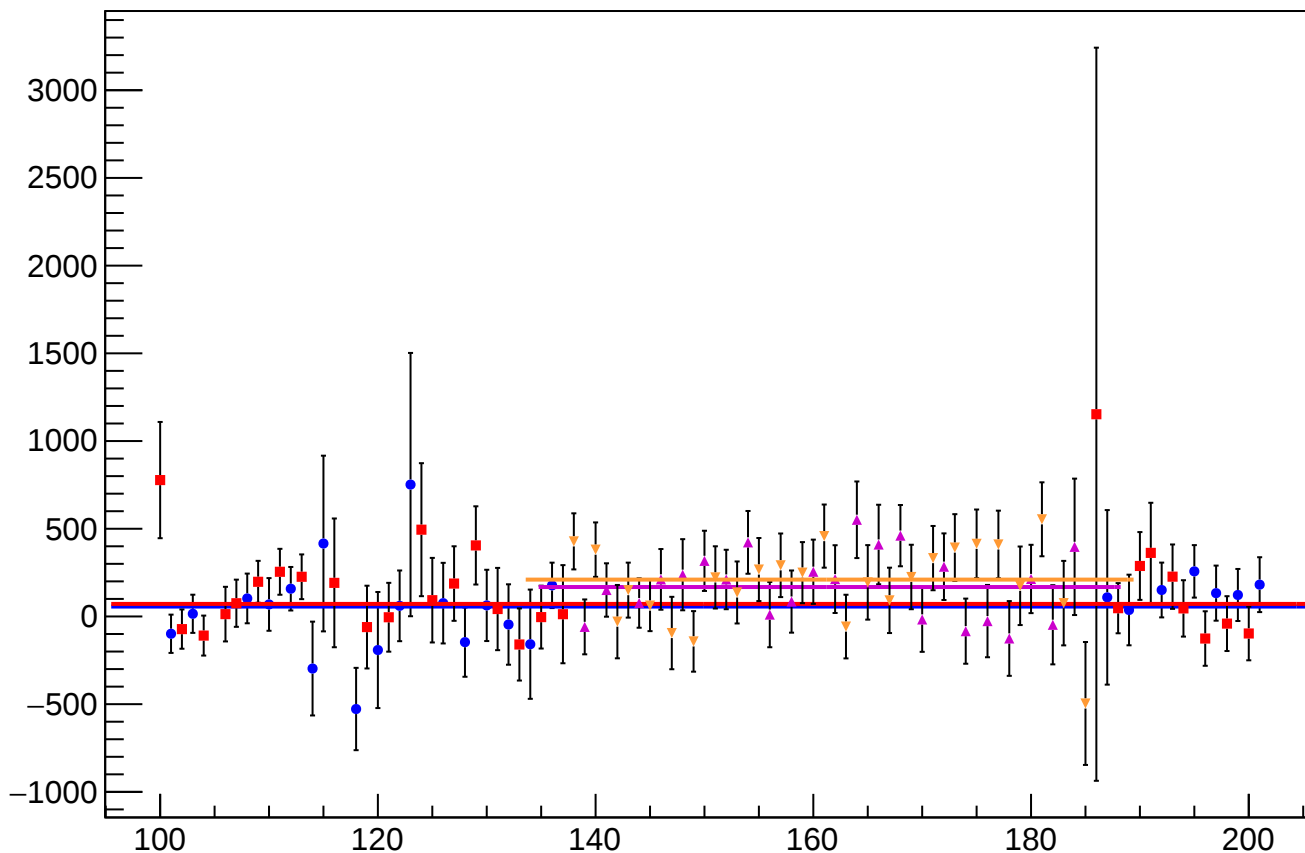
Right: 5027.801+/-1.101 χ^2/NDF : 940902.2/22

In: 2142.030+/-0.337 χ^2/NDF : 4135686.3/33

Out: 2159.741+/-0.328 χ^2/NDF : 5454435.5/36

All: 2151.112+/-0.235 χ^2/NDF : 9591539.9/70

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 56.488 $\pm$ 35.389 χ^2 /NDF: 18.7/23

Left Out: 210.086 $\pm$ 37.093 χ^2 /NDF:27.5/24

Right Out: 71.532 $\pm$ 32.654 χ^2 /NDF: 25.9/27

Left In: 167.822 $\pm$ 38.718 χ^2 /NDF:21.1/22

Left: 189.859 $\pm$ 26.785 χ^2 /NDF: 49.3/47

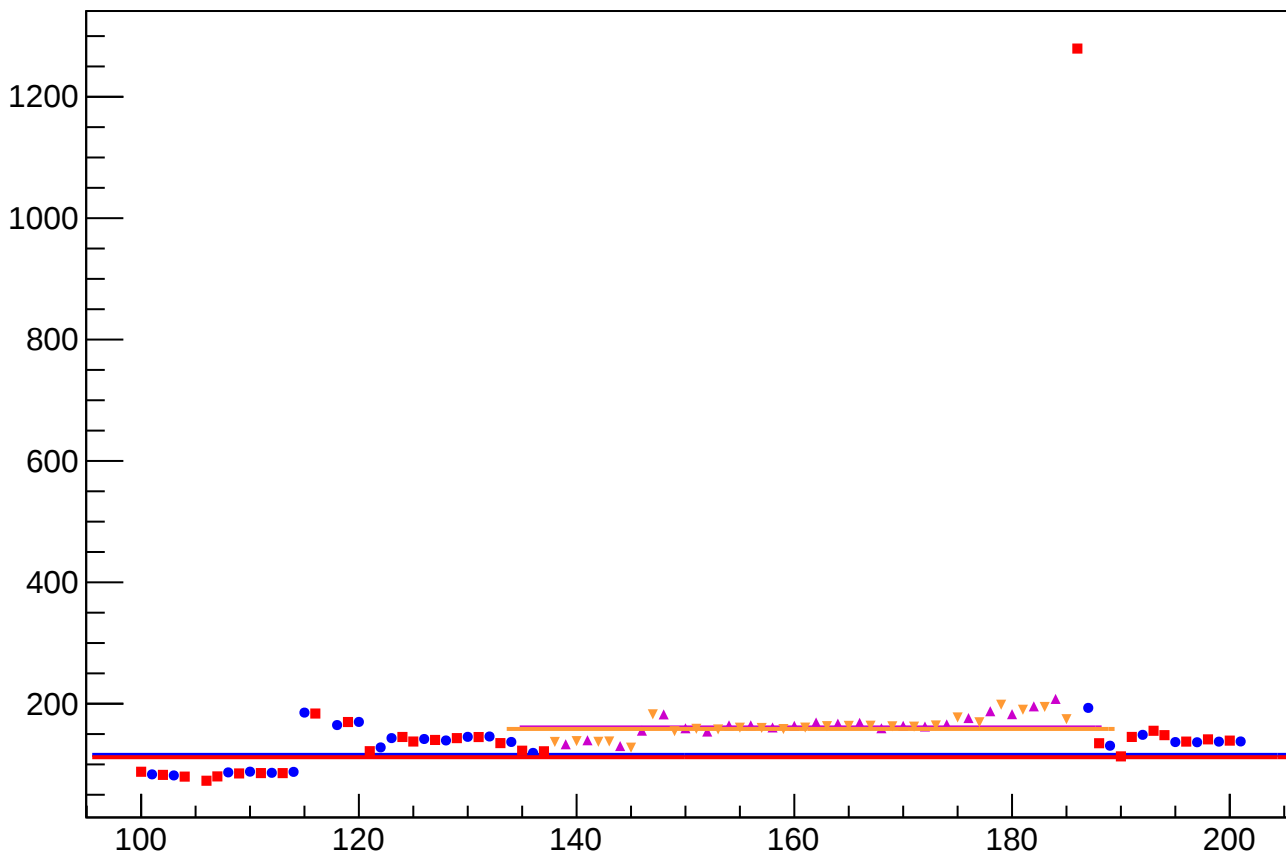
Right: 64.614 $\pm$ 23.999 χ^2 /NDF: 44.7/51

In: 107.165 $\pm$ 26.122 χ^2 /NDF:44.3/46

Out: 132.024 $\pm$ 24.510 χ^2 /NDF:61.3/52

All: 120.385 $\pm$ 17.874 χ^2 /NDF: 106.1/99

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 115.729 $\pm$ 0.025 χ^2 /NDF: 1294327.9/23

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 111.853 $\pm$ 0.023 χ^2 /NDF: 2302975.4/27

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

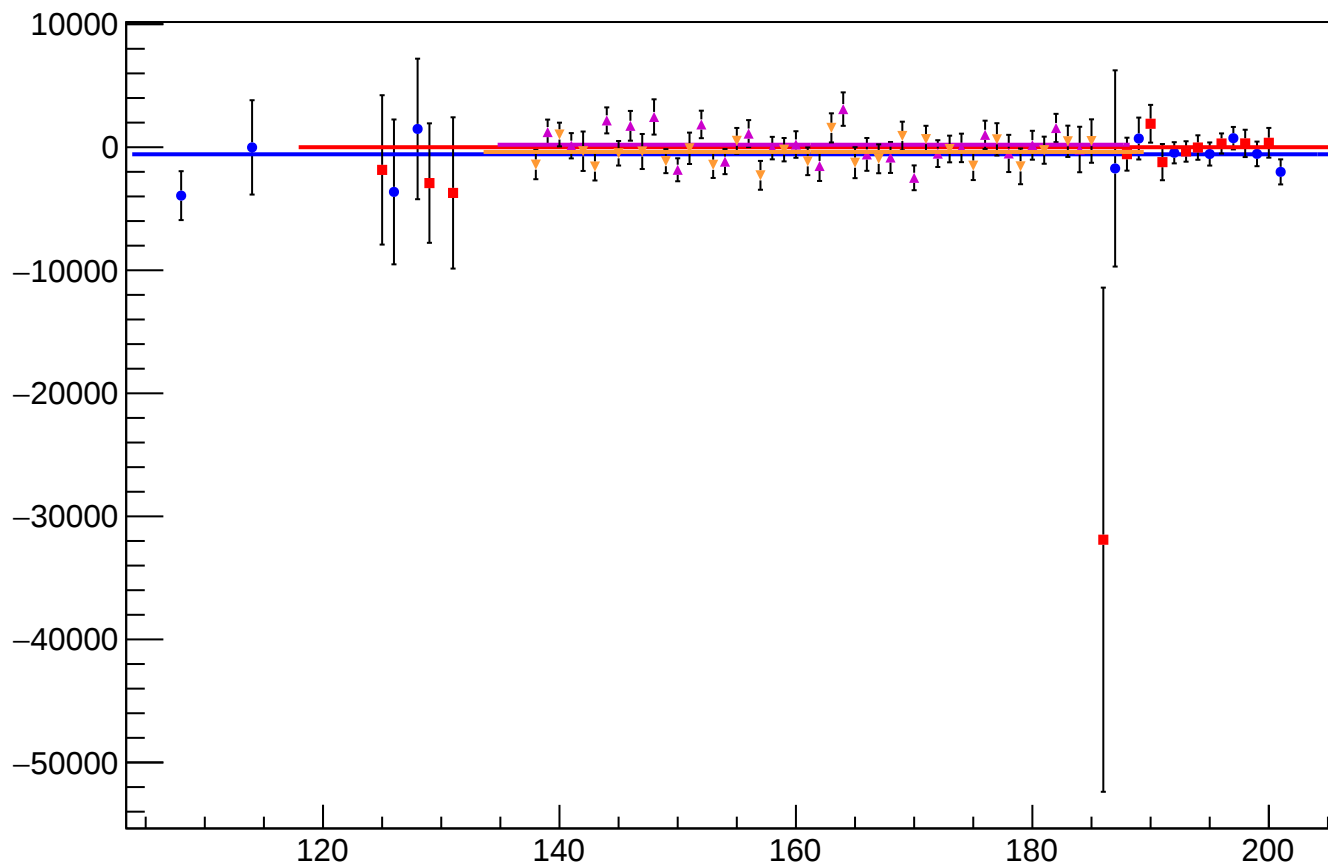
Right: 113.635 $\pm$ 0.017 χ^2 /NDF: 3610259.9/51

In: 136.311 $\pm$ 0.018 χ^2 /NDF: 3160302.1/46

Out: 132.193 $\pm$ 0.017 χ^2 /NDF: 4514685.2/52

All: 134.121 $\pm$ 0.013 χ^2 /NDF: 7701423.5/99

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -573.571+/-395.742 χ^2/NDF : 7.9/10

Left Out: -385.018+/-231.833 χ^2/NDF :18.1/24

Right Out: 1.848+/-378.257 χ^2/NDF : 6.1/11

Left In: 202.234+/-237.460 χ^2/NDF :35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

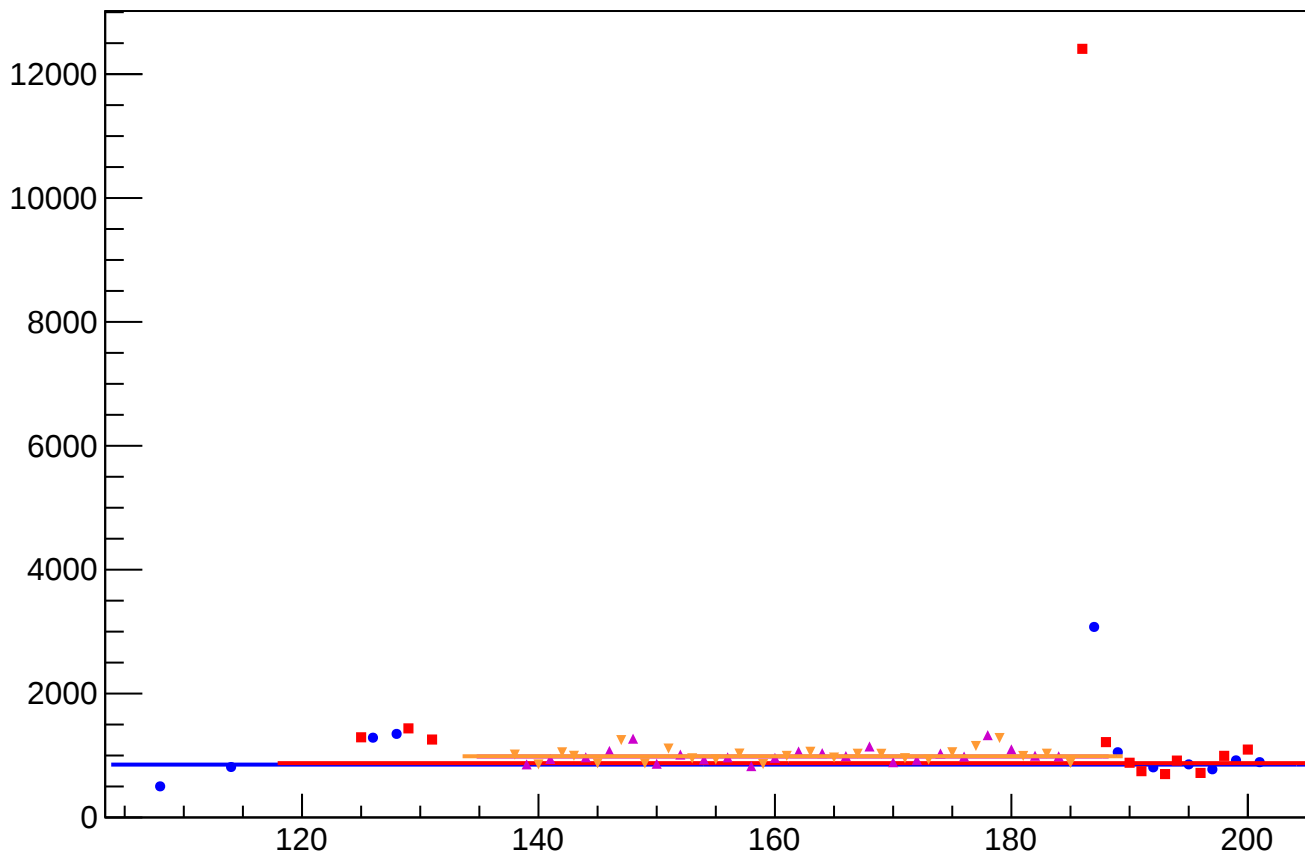
Right: -272.869+/-273.441 χ^2/NDF : 15.1/22

In: -3.144+/-203.617 χ^2/NDF :46.2/33

Out: -279.378+/-197.662 χ^2/NDF :24.9/36

All: -145.359+/-141.826 χ^2/NDF : 72.1/70

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 853.297 ± 0.280 χ^2/NDF : 303140.6/10

Left Out: 987.869 ± 0.164 χ^2/NDF : 376958.5/24

Right Out: 876.919 ± 0.267 χ^2/NDF : 1078090.1/11

Left In: 983.893 ± 0.168 χ^2/NDF : 416265.7/22

Left: 985.929 ± 0.117 χ^2/NDF : 793511.2/47

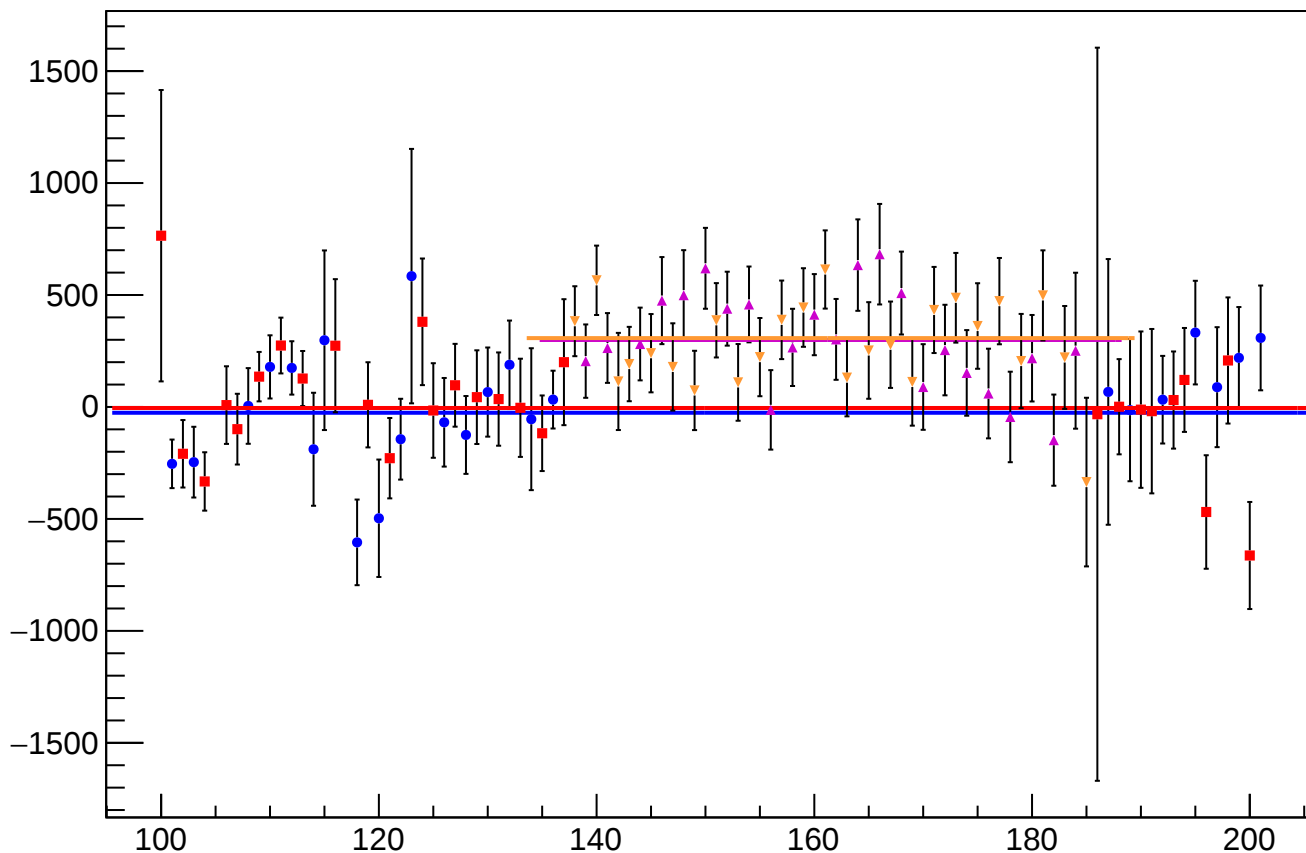
Right: 865.641 ± 0.193 χ^2/NDF : 1384954.4/22

In: 949.320 ± 0.144 χ^2/NDF : 879551.4/33

Out: 957.572 ± 0.140 χ^2/NDF : 1580133.5/36

All: 953.569 ± 0.100 χ^2/NDF : 2461375.9/70

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -25.895 $\pm$ 38.717 χ^2/NDF : 34.3/23

Left Out: 307.487 $\pm$ 37.278 χ^2/NDF : 20.7/24

Right Out: -4.544 $\pm$ 36.191 χ^2/NDF : 35.2/27

Left In: 299.192 $\pm$ 39.009 χ^2/NDF : 28.5/22

Left: 303.528 $\pm$ 26.951 χ^2/NDF : 49.3/47

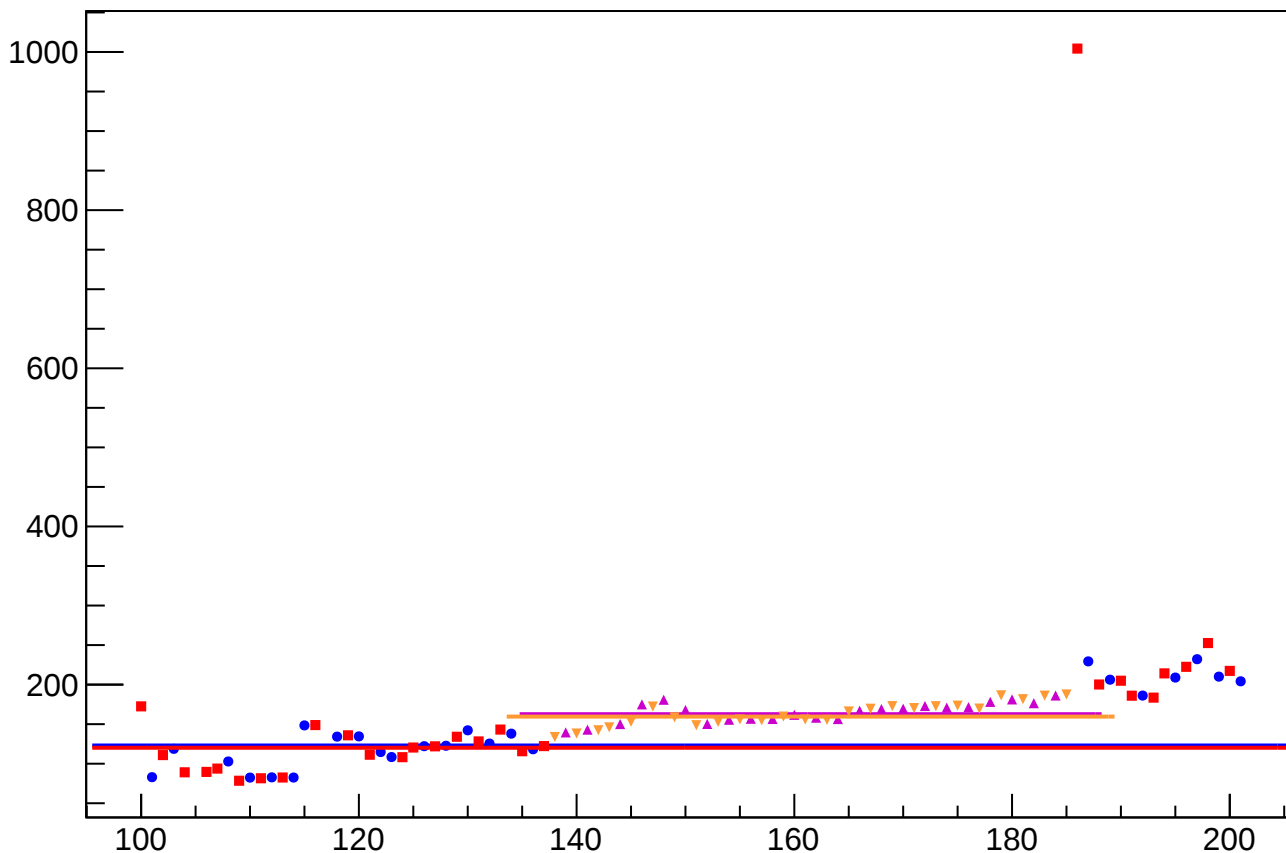
Right: -14.500 $\pm$ 26.439 χ^2/NDF : 69.6/51

In: 135.429 $\pm$ 27.480 χ^2/NDF : 97.8/46

Out: 146.857 $\pm$ 25.966 χ^2/NDF : 92.0/52

All: 141.466 $\pm$ 18.873 χ^2/NDF : 189.8/99

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 123.003 $\pm$ 0.027 χ^2 /NDF: 2351799.2/23

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF:287744.2/24

Right Out: 120.170 $\pm$ 0.026 χ^2 /NDF: 3639071.1/27

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF:199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

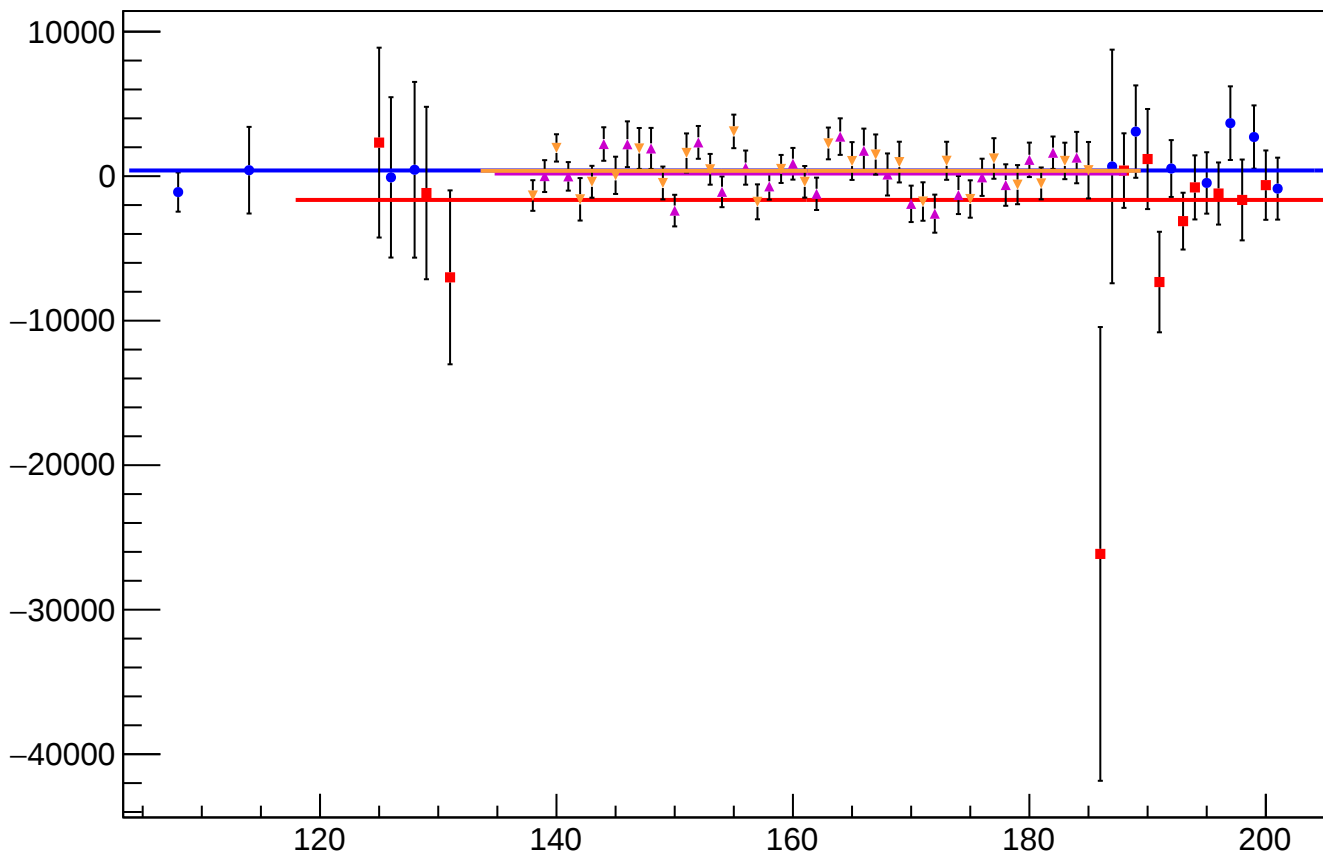
Right: 121.491 $\pm$ 0.019 χ^2 /NDF: 5996581.9/51

In: 142.656 $\pm$ 0.019 χ^2 /NDF:3589805.7/46

Out: 139.287 $\pm$ 0.018 χ^2 /NDF:5076852.8/52

All: 140.876 $\pm$ 0.013 χ^2 /NDF: 8682541.1/99

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 393.848+/-727.925 χ^2/NDF : 5.2/10

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -1645.060+/-851.415 χ^2/NDF : 8.5/11

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

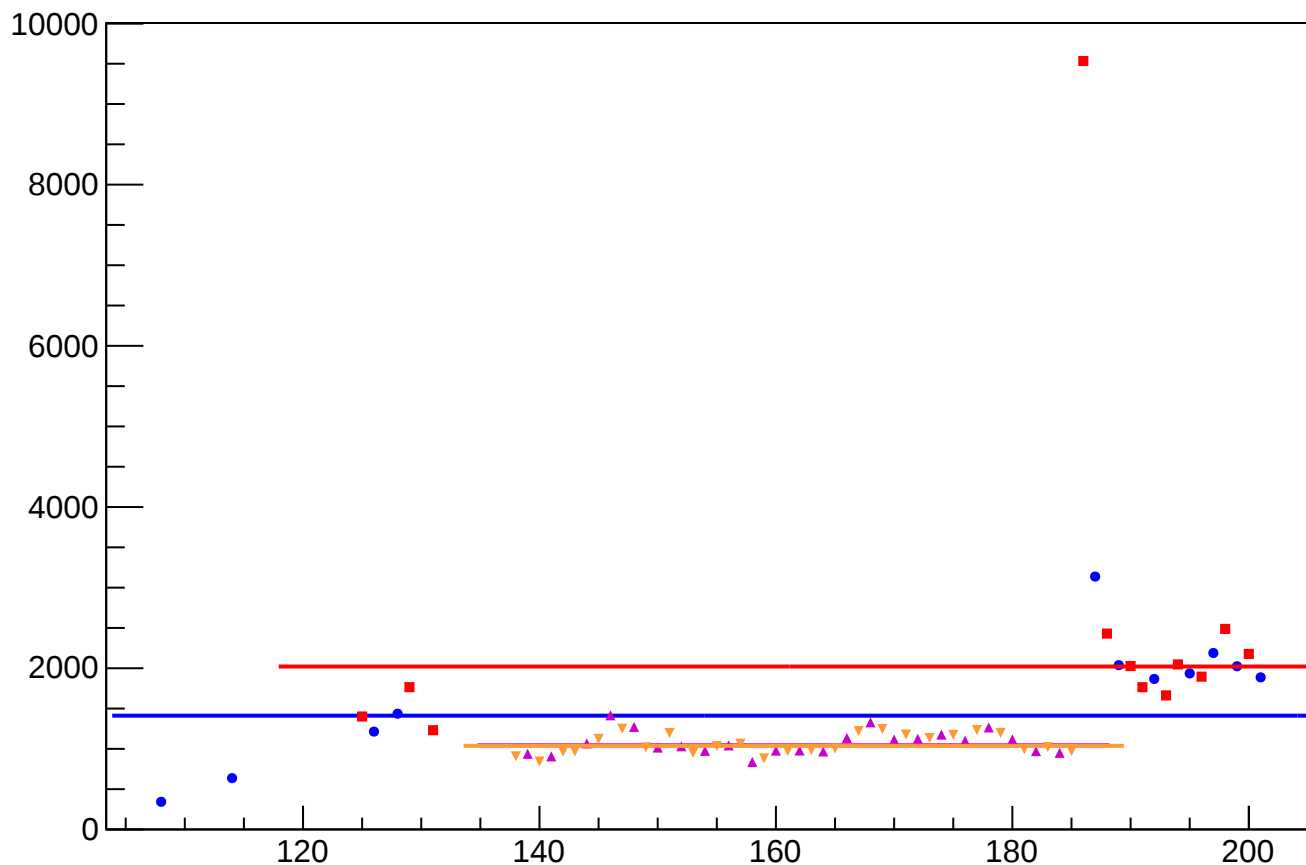
Right: -467.151+/-553.278 χ^2/NDF : 17.0/22

In: 205.702+/-238.352 χ^2/NDF :41.8/33

Out: 217.621+/-234.132 χ^2/NDF :44.1/36

All: 211.768+/-167.028 χ^2/NDF : 85.9/70

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1411.629+/-0.515 χ^2/NDF : 2215560.0/10

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 2021.397+/-0.602 χ^2/NDF : 712482.0/11

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

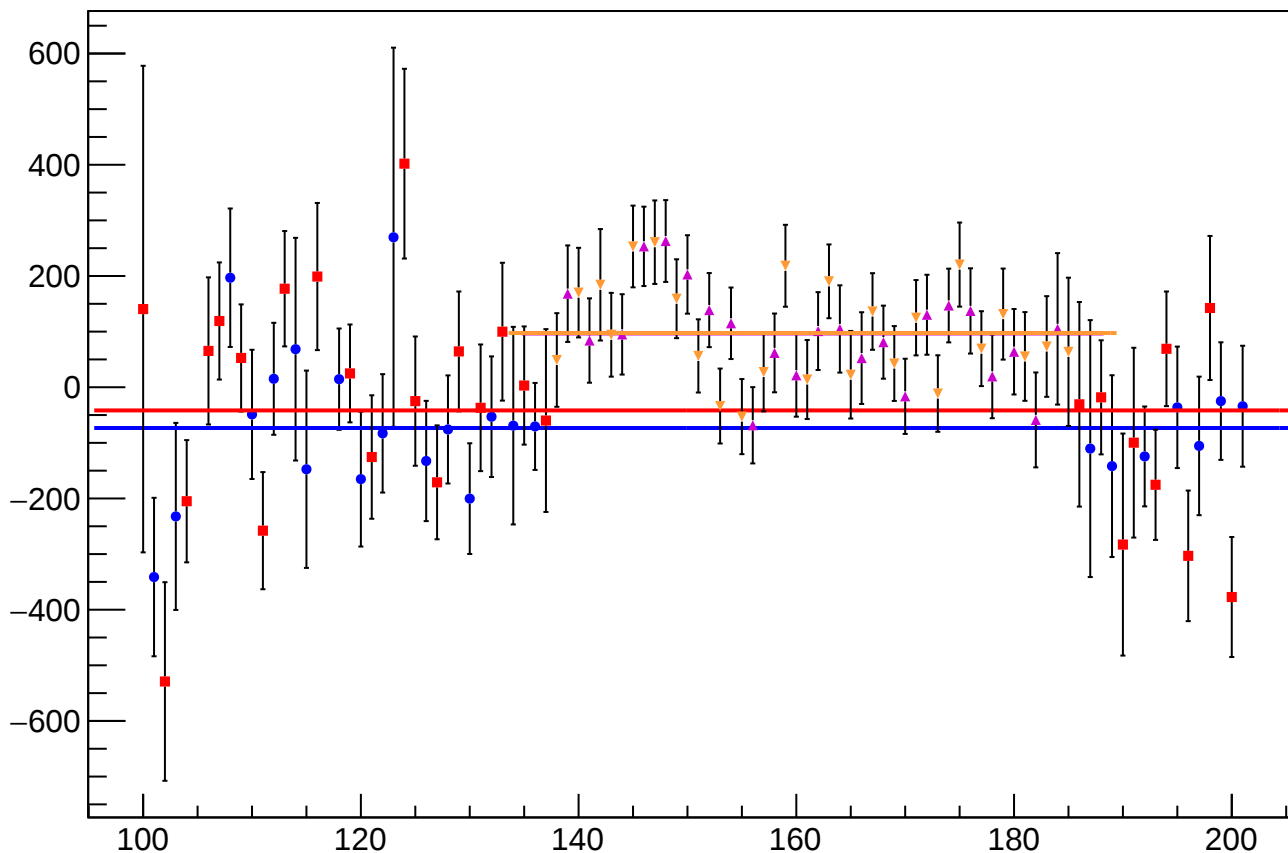
Right: 1669.125+/-0.391 χ^2/NDF : 3520682.9/22

In: 1084.082+/-0.169 χ^2/NDF : 3212460.6/33

Out: 1112.078+/-0.166 χ^2/NDF : 3675380.4/36

All: 1098.330+/-0.118 χ^2/NDF : 6901883.4/70

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -73.291 $\pm$ 23.977 χ^2 /NDF: 16.2/23

Left Out: 97.445 $\pm$ 14.880 χ^2 /NDF:36.0/24

Right Out: -41.685 $\pm$ 22.466 χ^2 /NDF: 59.0/27

Left In: 96.704 $\pm$ 15.369 χ^2 /NDF:29.2/22

Left: 97.087 $\pm$ 10.690 χ^2 /NDF: 65.2/47

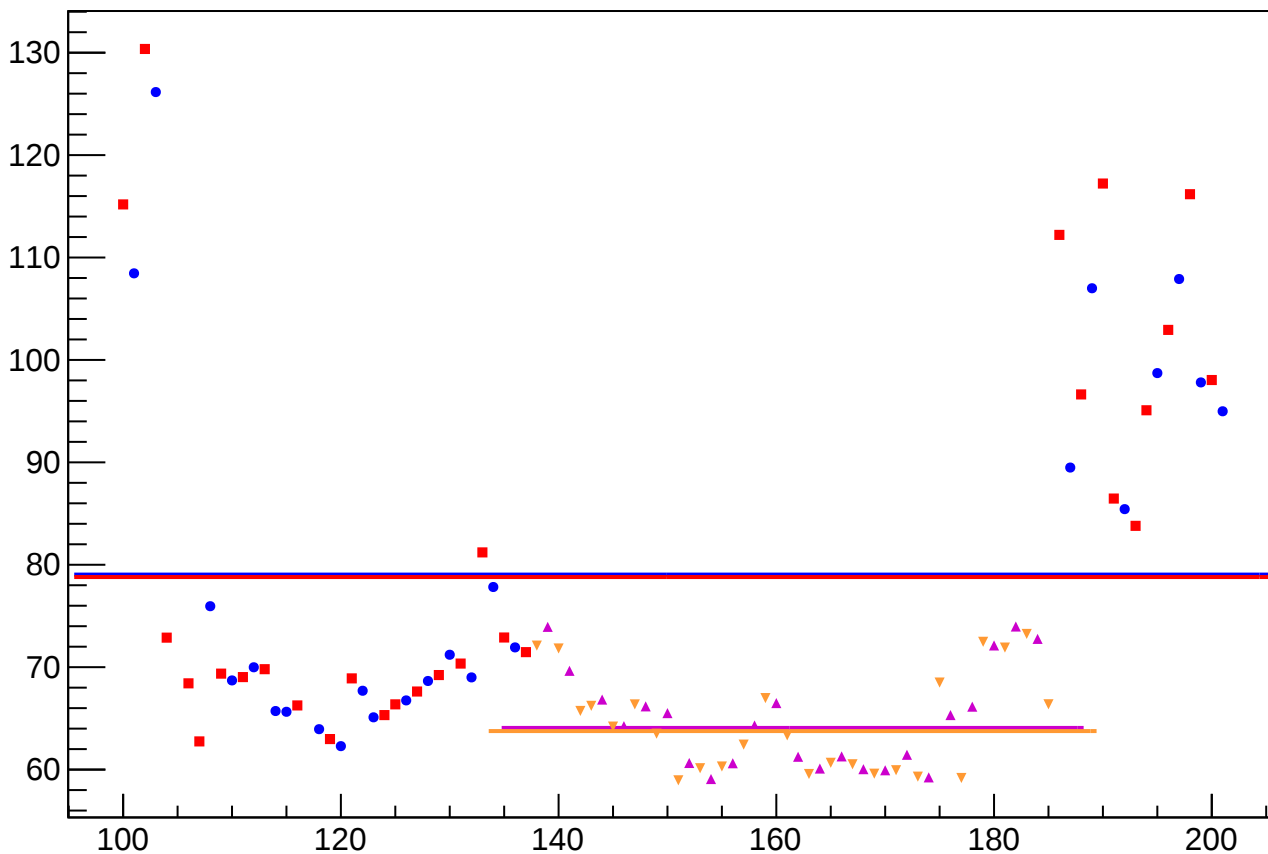
Right: -56.461 $\pm$ 16.394 χ^2 /NDF: 76.1/51

In: 47.197 $\pm$ 12.939 χ^2 /NDF:81.0/46

Out: 55.022 $\pm$ 12.406 χ^2 /NDF:121.7/52

All: 51.274 $\pm$ 8.955 χ^2 /NDF: 202.9/99

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 79.039 ± 0.017 $\chi^2/\text{NDF}: 860887.0/23$

Left Out: 63.761 ± 0.011 $\chi^2/\text{NDF}: 192803.8/24$

Right Out: 78.801 ± 0.016 $\chi^2/\text{NDF}: 1066471.1/27$

Left In: 64.069 ± 0.011 $\chi^2/\text{NDF}: 164660.4/22$

Left: 63.910 ± 0.008 $\chi^2/\text{NDF}: 357877.2/47$

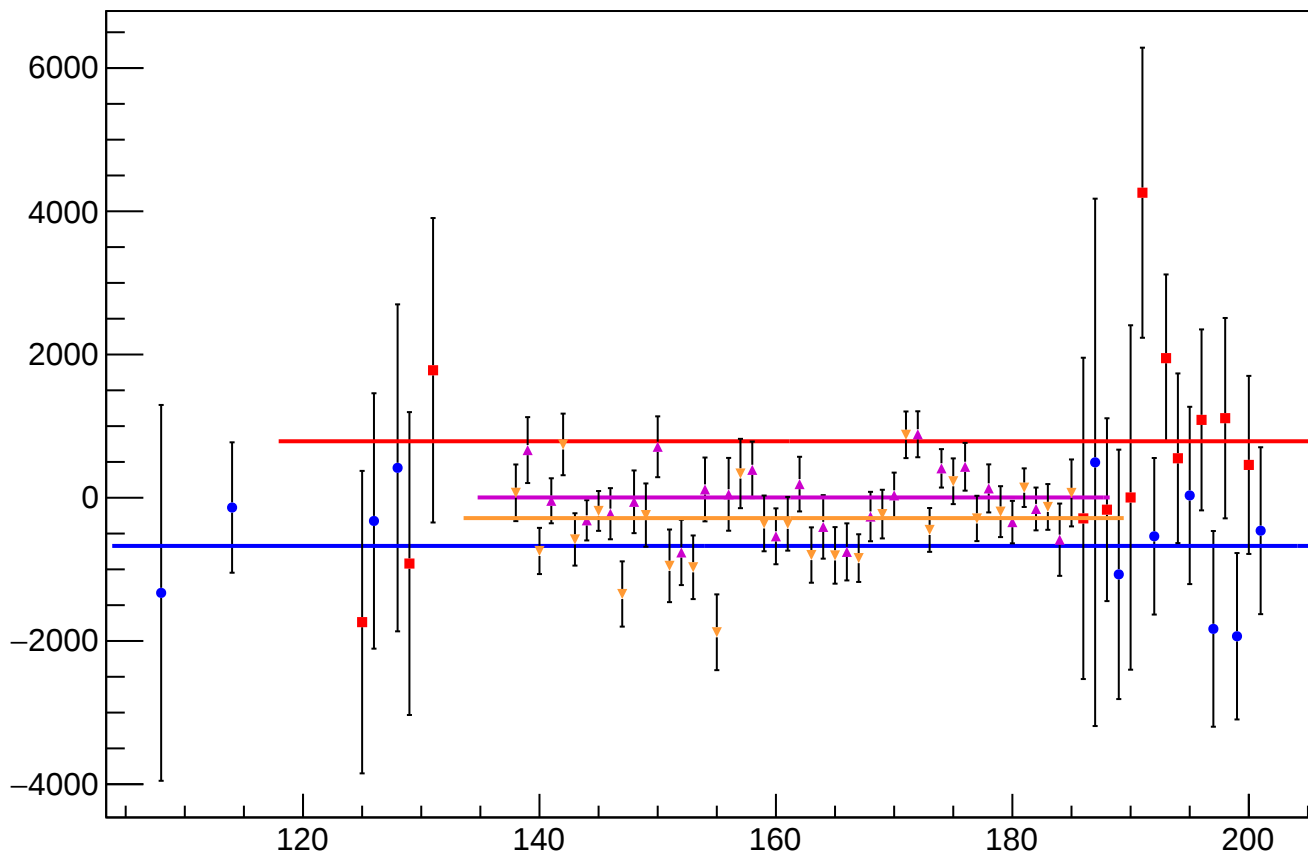
Right: 78.913 ± 0.012 $\chi^2/\text{NDF}: 1927463.0/51$

In: 68.428 ± 0.009 $\chi^2/\text{NDF}: 1578194.2/46$

Out: 68.347 ± 0.009 $\chi^2/\text{NDF}: 1882333.9/52$

All: 68.386 ± 0.006 $\chi^2/\text{NDF}: 3460569.3/99$

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -672.683+/-416.528 χ^2/NDF : 3.1/10

Left Out: -284.304+/-72.732 χ^2/NDF :55.1/24

Right Out: 788.654+/-441.618 χ^2/NDF : 7.3/11

Left In: 4.037+/-75.084 χ^2/NDF :32.4/22

Left: -144.720+/-52.241 χ^2/NDF : 95.0/47

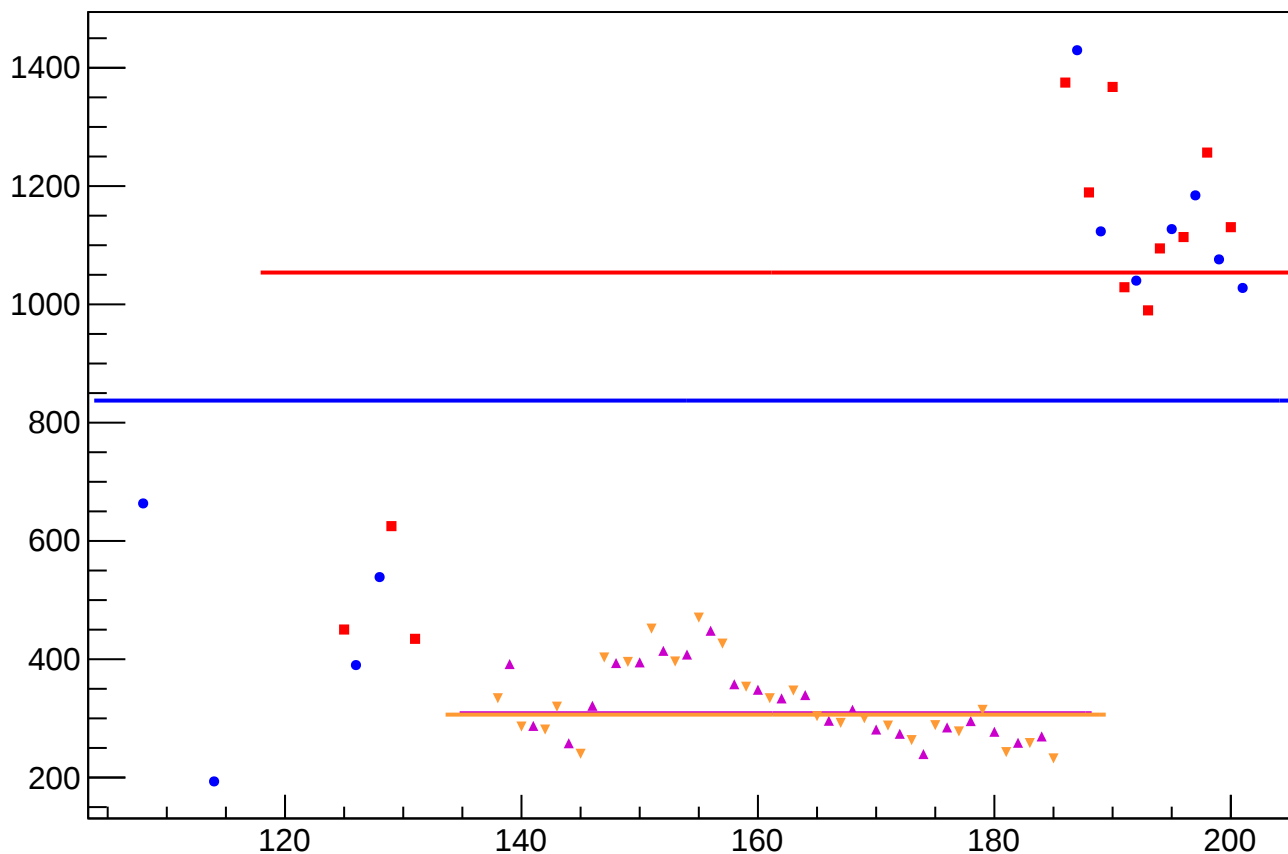
Right: 15.298+/-303.012 χ^2/NDF : 16.2/22

In: -17.261+/-73.893 χ^2/NDF :38.0/33

Out: -255.969+/-71.766 χ^2/NDF :68.1/36

All: -140.101+/-51.482 χ^2/NDF : 111.5/70

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 837.348+/-0.295 χ^2/NDF : 1720157.4/10

Left Out: 306.363+/-0.051 χ^2/NDF : 1215669.9/24

Right Out: 1053.823+/-0.312 χ^2/NDF : 575775.1/11

Left In: 308.727+/-0.053 χ^2/NDF : 1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

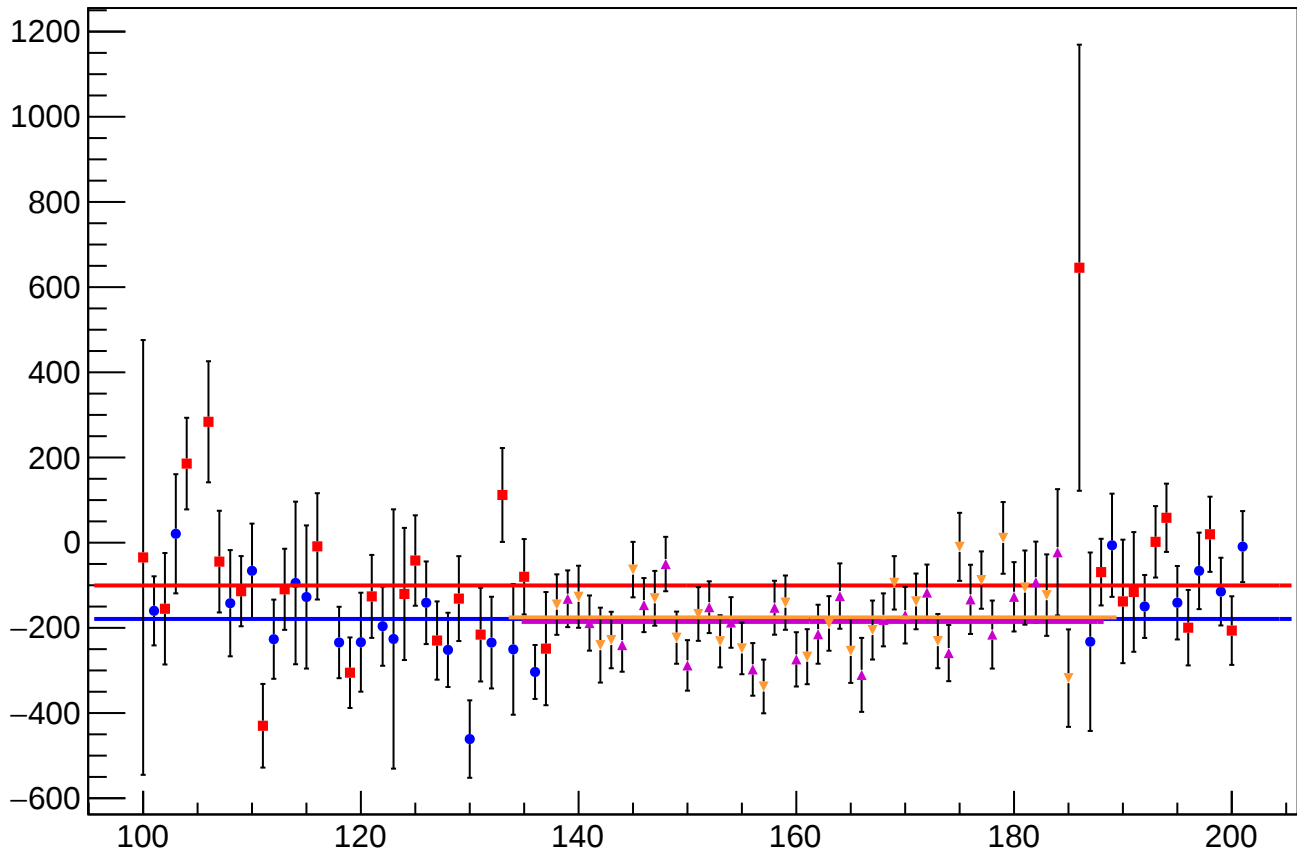
Right: 939.262+/-0.214 χ^2/NDF : 2550252.1/22

In: 325.363+/-0.052 χ^2/NDF : 5843018.3/33

Out: 326.102+/-0.051 χ^2/NDF : 7369588.1/36

All: 325.743+/-0.036 χ^2/NDF : 13212709.2/70

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -179.069 ± 20.237 χ^2/NDF : 28.1/23

Left Out: -175.471 ± 13.846 χ^2/NDF : 34.6/24

Right Out: -100.421 ± 19.549 χ^2/NDF : 53.8/27

Left In: -186.047 ± 14.315 χ^2/NDF : 23.6/22

Left: -180.583 ± 9.952 χ^2/NDF : 58.5/47

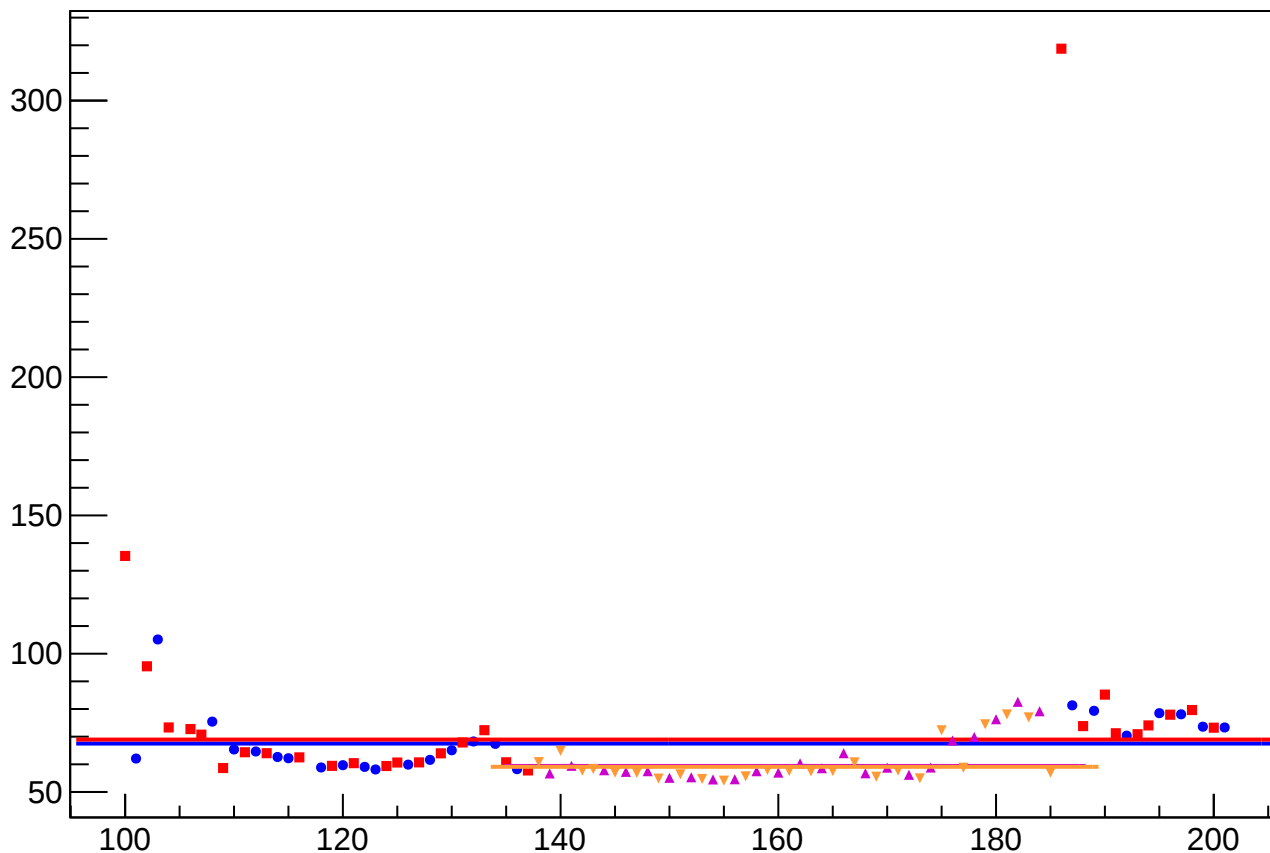
Right: -138.385 ± 14.060 χ^2/NDF : 89.8/51

In: -183.720 ± 11.687 χ^2/NDF : 51.8/46

Out: -150.400 ± 11.299 χ^2/NDF : 98.3/52

All: -166.498 ± 8.123 χ^2/NDF : 154.3/99

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.507 $\pm$ 0.014 χ^2 /NDF: 394788.2/23

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.951 $\pm$ 0.014 χ^2 /NDF: 836603.1/27

Left In: 59.410 $\pm$ 0.010 χ^2 /NDF: 373052.7/22

Left: 59.250 $\pm$ 0.007 χ^2 /NDF: 743329.1/47

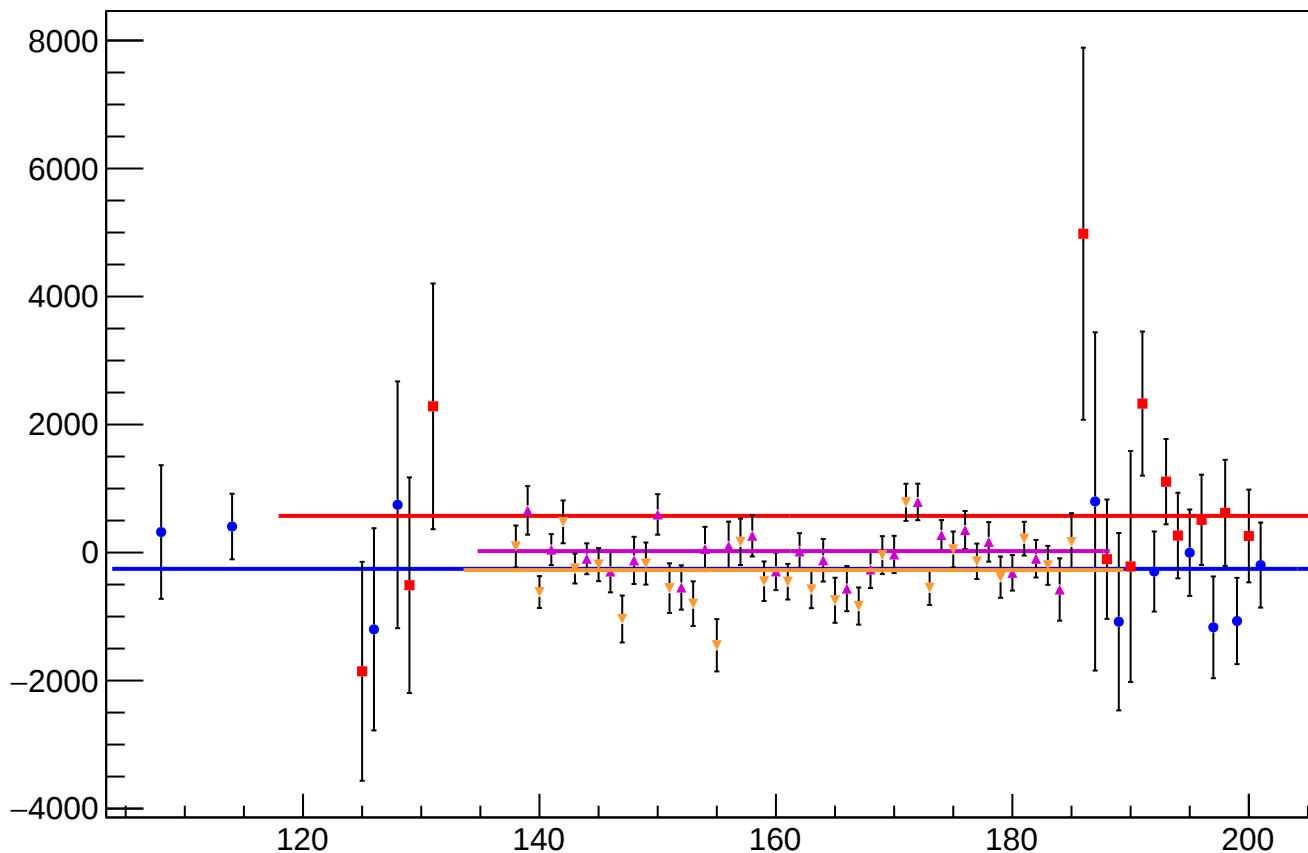
Right: 68.254 $\pm$ 0.010 χ^2 /NDF: 1236662.0/51

In: 62.111 $\pm$ 0.008 χ^2 /NDF: 981213.3/46

Out: 62.390 $\pm$ 0.008 χ^2 /NDF: 1544676.1/52

All: 62.255 $\pm$ 0.006 χ^2 /NDF: 2526482.4/99

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -254.616 $\pm$ 243.509 χ^2 /NDF: 6.0/10

Left Out: -274.091 $\pm$ 60.799 χ^2 /NDF:53.9/24

Right Out: 572.852 $\pm$ 275.339 χ^2 /NDF: 9.7/11

Left In: 22.631 $\pm$ 63.643 χ^2 /NDF:28.9/22

Left: -132.507 $\pm$ 43.963 χ^2 /NDF: 94.2/47

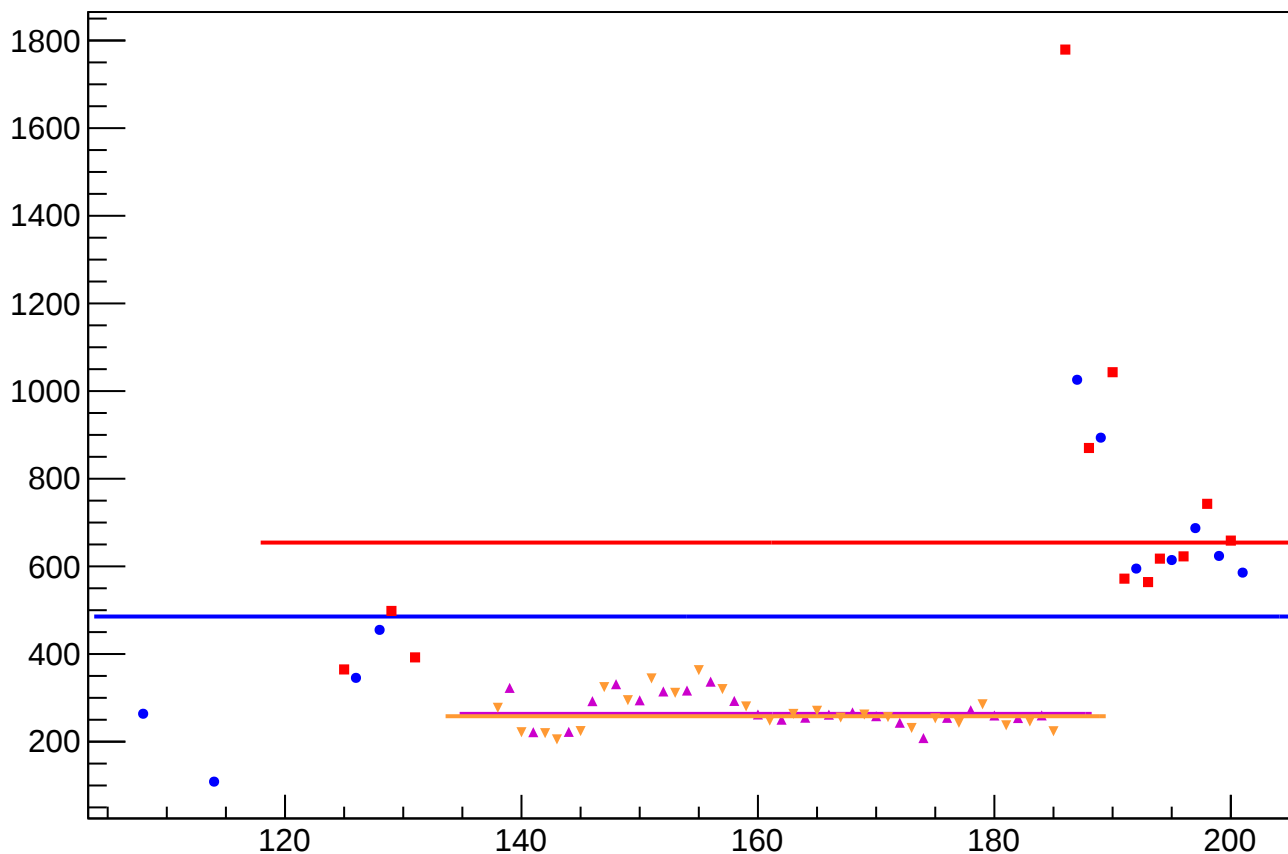
Right: 108.544 $\pm$ 182.407 χ^2 /NDF: 20.8/22

In: 4.903 $\pm$ 61.575 χ^2 /NDF:36.2/33

Out: -234.714 $\pm$ 59.369 χ^2 /NDF:72.7/36

All: -119.274 $\pm$ 42.739 χ^2 /NDF: 116.7/70

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 485.569+/-0.172 χ^2/NDF : 1838016.4/10

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 654.309+/-0.195 χ^2/NDF : 691562.1/11

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

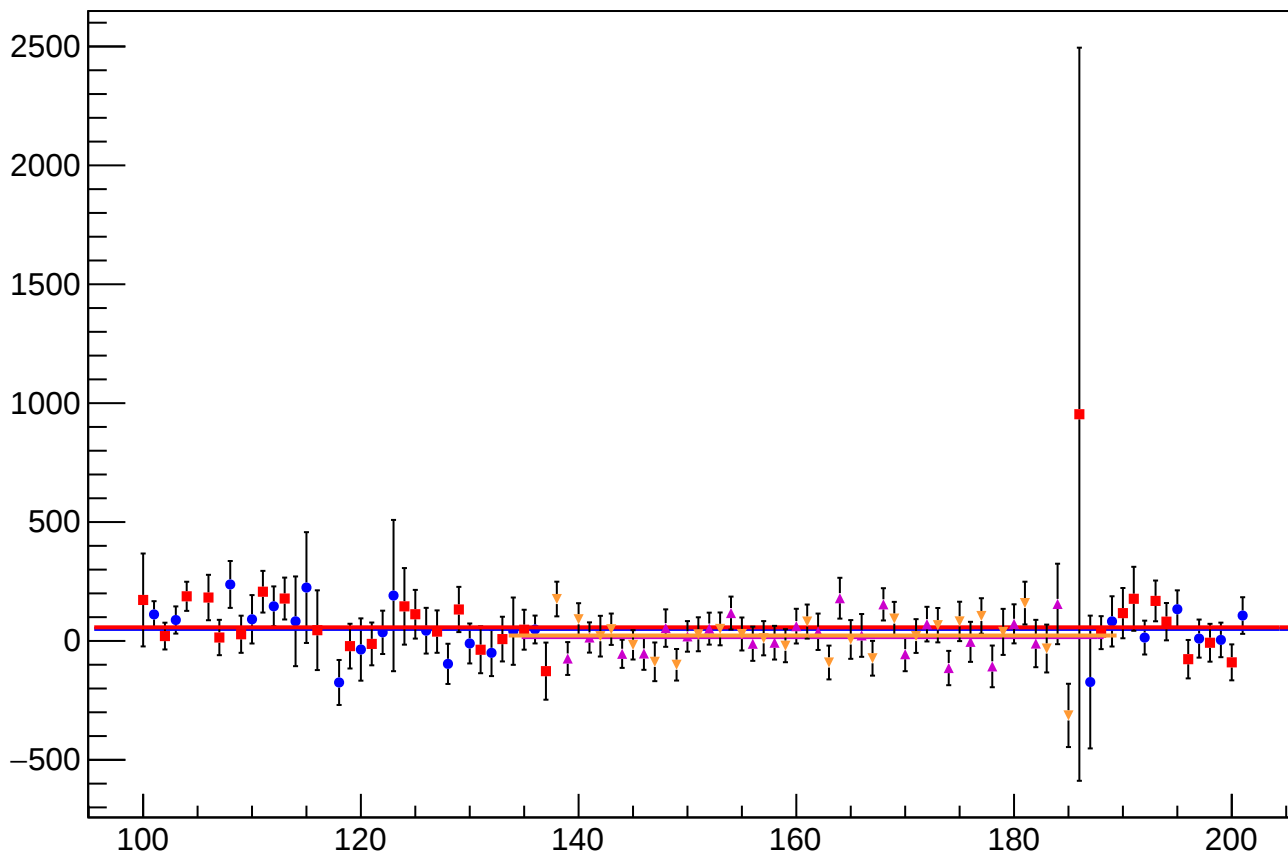
Right: 559.626+/-0.129 χ^2/NDF : 2951063.2/22

In: 277.603+/-0.044 χ^2/NDF : 3982042.7/33

Out: 276.464+/-0.042 χ^2/NDF : 5366386.4/36

All: 277.012+/-0.030 χ^2/NDF : 9348783.6/70

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 50.614 $\pm$ 17.885 χ^2 /NDF: 21.5/23

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 57.269 $\pm$ 16.833 χ^2 /NDF: 29.0/27

Left In: 16.198 $\pm$ 15.531 χ^2 /NDF:23.3/22

Left: 19.658 $\pm$ 10.777 χ^2 /NDF: 52.4/47

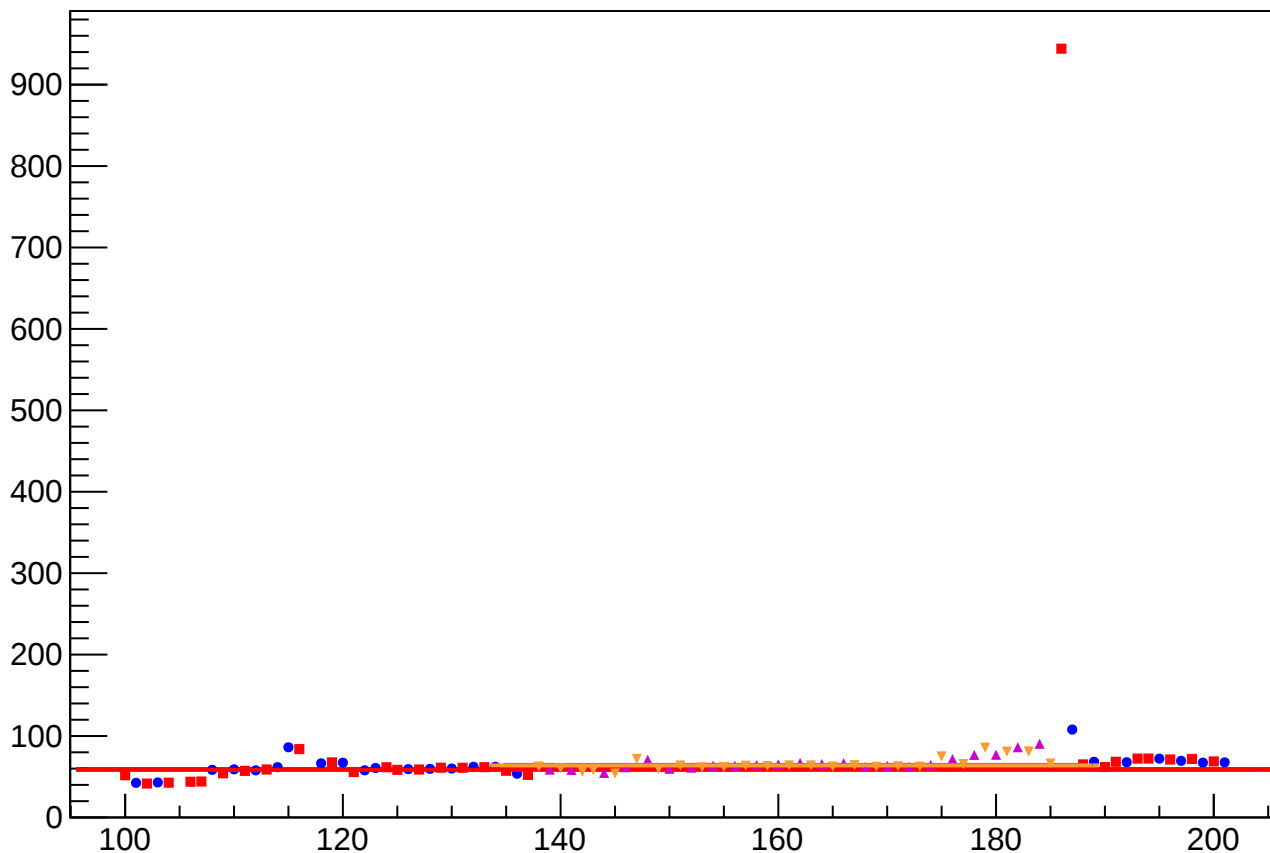
Right: 54.143 $\pm$ 12.258 χ^2 /NDF: 50.5/51

In: 30.994 $\pm$ 11.726 χ^2 /NDF:46.9/46

Out: 38.060 $\pm$ 11.185 χ^2 /NDF:60.3/52

All: 34.693 $\pm$ 8.094 χ^2 /NDF: 107.4/99

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.187 $\pm$ 0.013 χ^2 /NDF: 649910.4/23

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 58.488 $\pm$ 0.012 χ^2 /NDF: 1469278.4/27

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

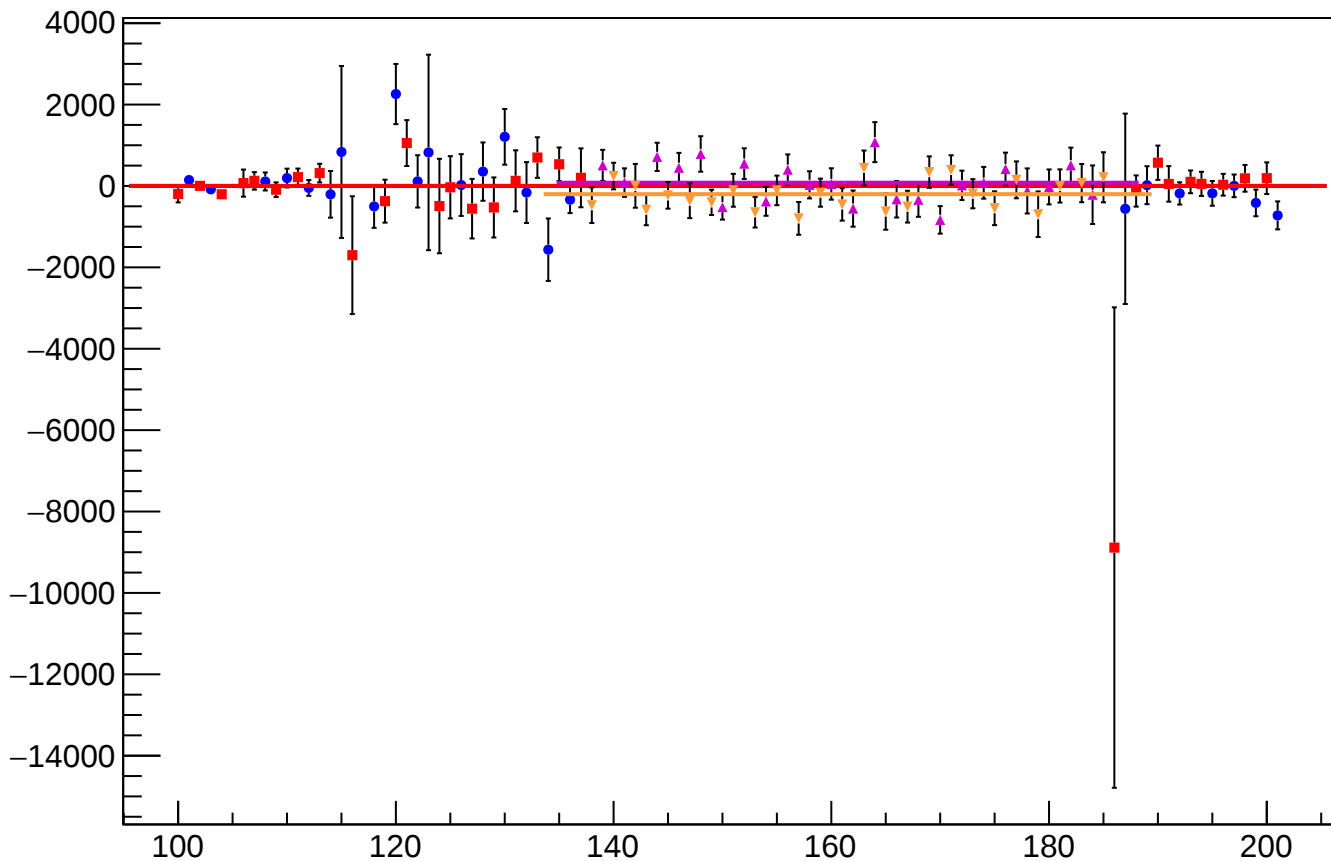
Right: 58.816 $\pm$ 0.009 χ^2 /NDF: 2120810.9/51

In: 62.222 $\pm$ 0.008 χ^2 /NDF: 1121442.1/46

Out: 61.521 $\pm$ 0.008 χ^2 /NDF: 1980999.3/52

All: 61.855 $\pm$ 0.006 χ^2 /NDF: 3106183.1/99

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 0.630 ± 47.902 χ^2/NDF : 31.3/23

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 0.313 ± 48.572 χ^2/NDF : 23.9/27

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

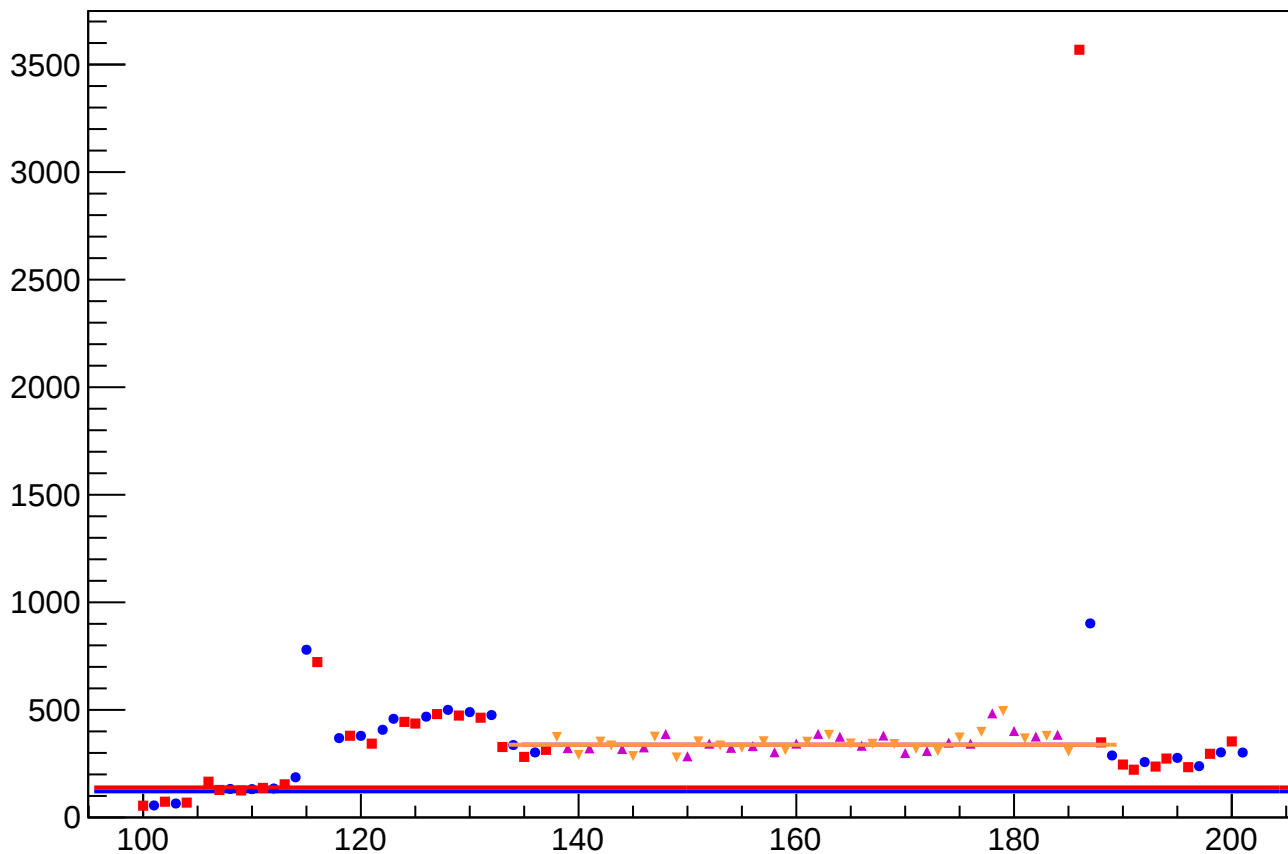
Right: 0.474 ± 34.106 χ^2/NDF : 55.2/51

In: 20.901 ± 41.334 χ^2/NDF : 65.4/46

Out: -54.382 ± 41.455 χ^2/NDF : 48.3/52

All: -16.630 ± 29.270 χ^2/NDF : 115.3/99

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 121.220+/-0.034 χ^2/NDF : 9265130.8/23

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 139.493+/-0.034 χ^2/NDF : 8954220.7/27

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

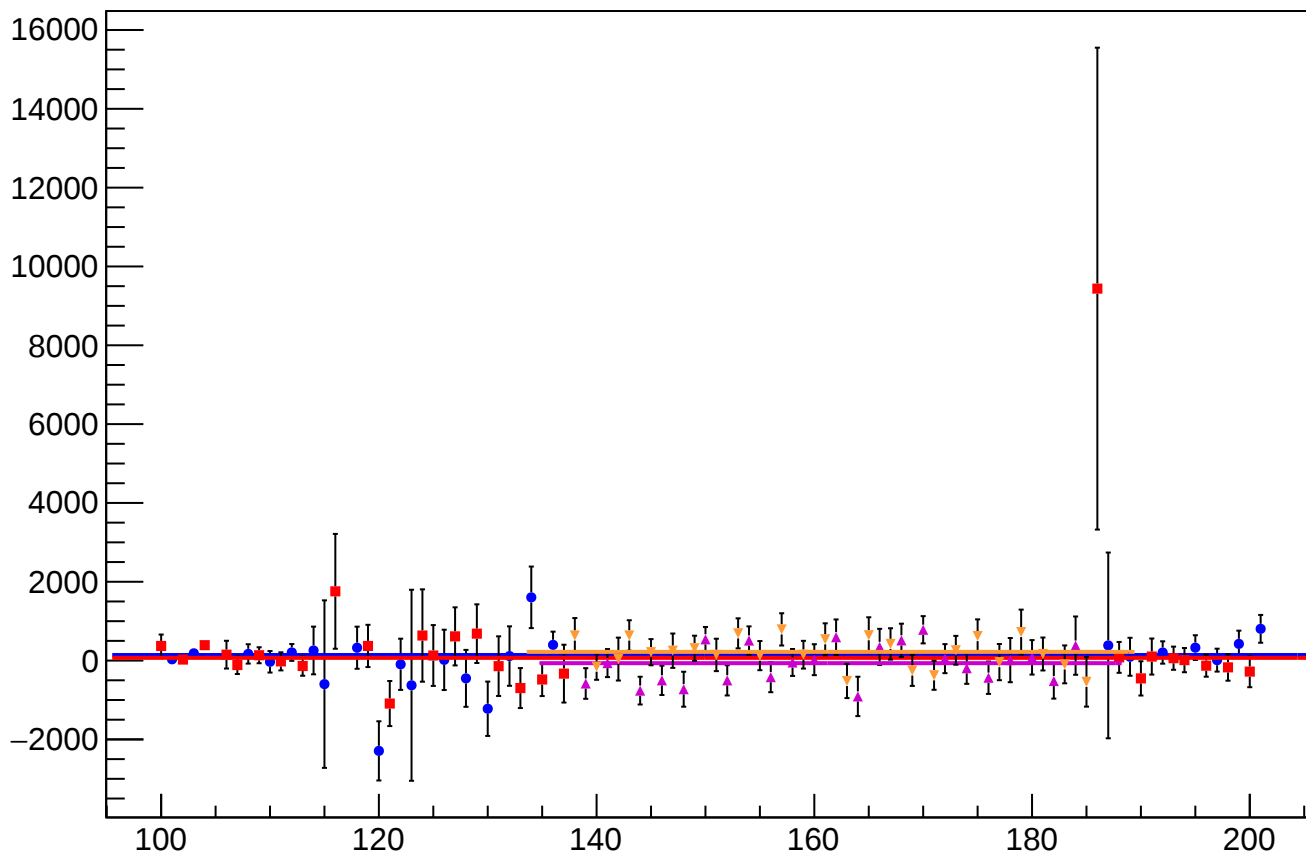
Right: 130.229+/-0.024 χ^2/NDF : 18362845.0/51

In: 176.739+/-0.029 χ^2/NDF : 20219973.3/46

Out: 193.438+/-0.029 χ^2/NDF : 18536607.6/52

All: 185.064+/-0.021 χ^2/NDF : 38919320.4/99

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 141.043 $\pm$ 57.145 χ^2 /NDF: 26.2/23

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 69.308 $\pm$ 54.517 χ^2 /NDF: 27.2/27

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

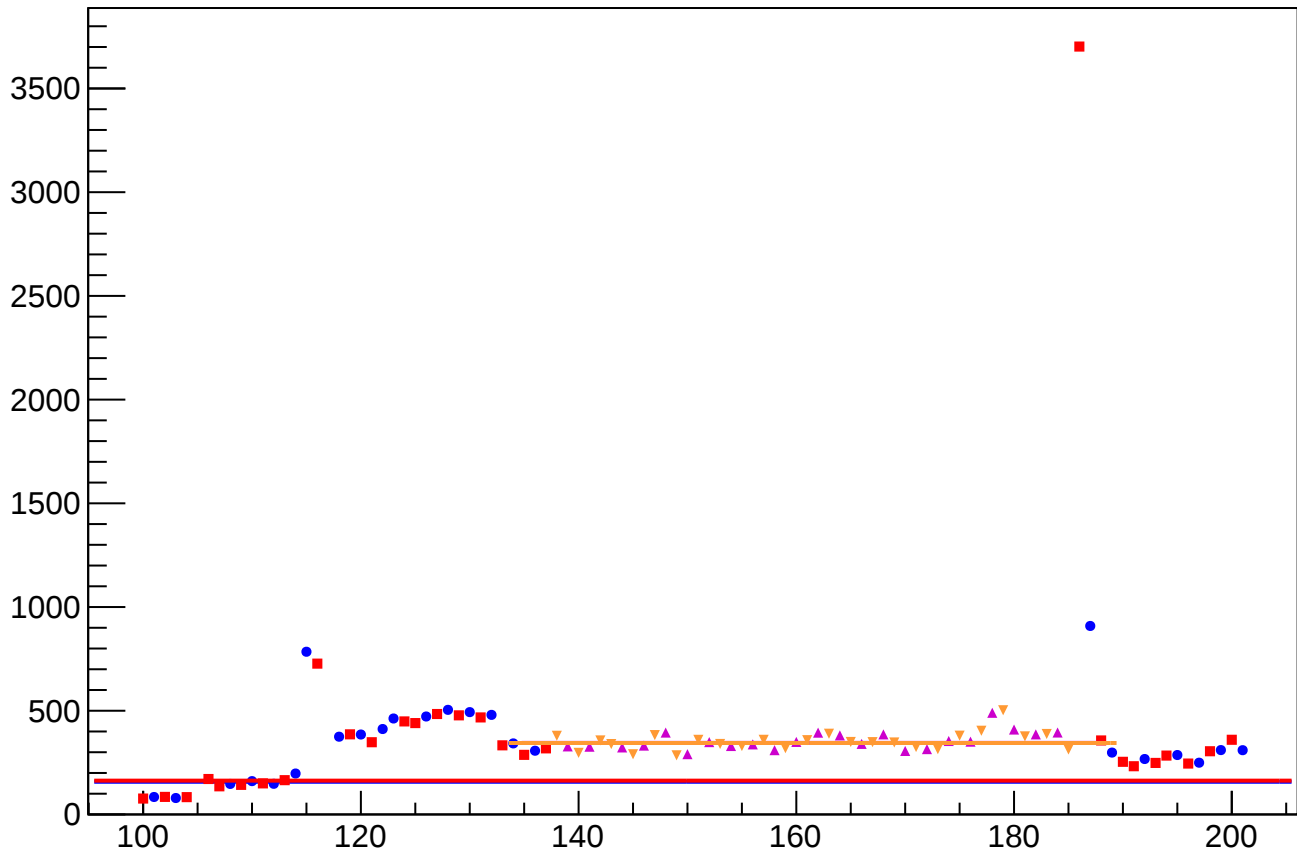
Right: 103.488 $\pm$ 39.446 χ^2 /NDF: 54.2/51

In: 74.964 $\pm$ 47.126 χ^2 /NDF:64.4/46

Out: 116.612 $\pm$ 45.231 χ^2 /NDF:49.3/52

All: 96.642 $\pm$ 32.632 χ^2 /NDF: 114.1/99

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 157.619 $\pm$ 0.040 χ^2 /NDF: 7153246.2/23

Left Out: 344.506 $\pm$ 0.057 χ^2 /NDF: 488323.4/24

Right Out: 163.011 $\pm$ 0.039 χ^2 /NDF: 7610795.0/27

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

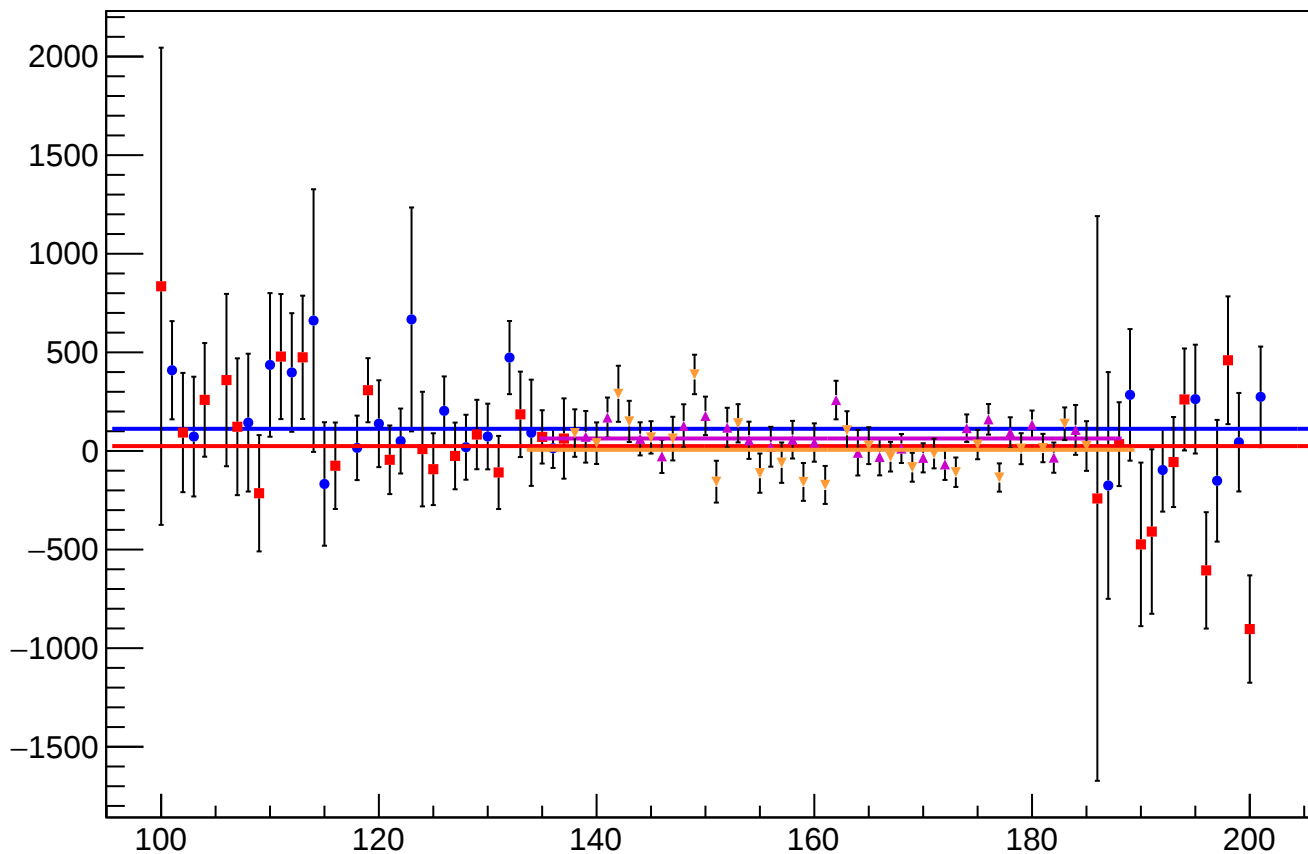
Right: 160.442 $\pm$ 0.028 χ^2 /NDF: 14773362.0/51

In: 217.577 $\pm$ 0.033 χ^2 /NDF: 14463025.0/46

Out: 219.578 $\pm$ 0.032 χ^2 /NDF: 15007636.8/52

All: 218.619 $\pm$ 0.023 χ^2 /NDF: 29472538.7/99

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 112.379 ± 44.605 $\chi^2/\text{NDF}: 14.5/23$

Left Out: 6.020 ± 17.910 $\chi^2/\text{NDF}: 46.0/24$

Right Out: 24.625 ± 44.631 $\chi^2/\text{NDF}: 33.4/27$

Left In: 63.279 ± 18.447 $\chi^2/\text{NDF}: 19.8/22$

Left: 33.804 ± 12.850 $\chi^2/\text{NDF}: 70.8/47$

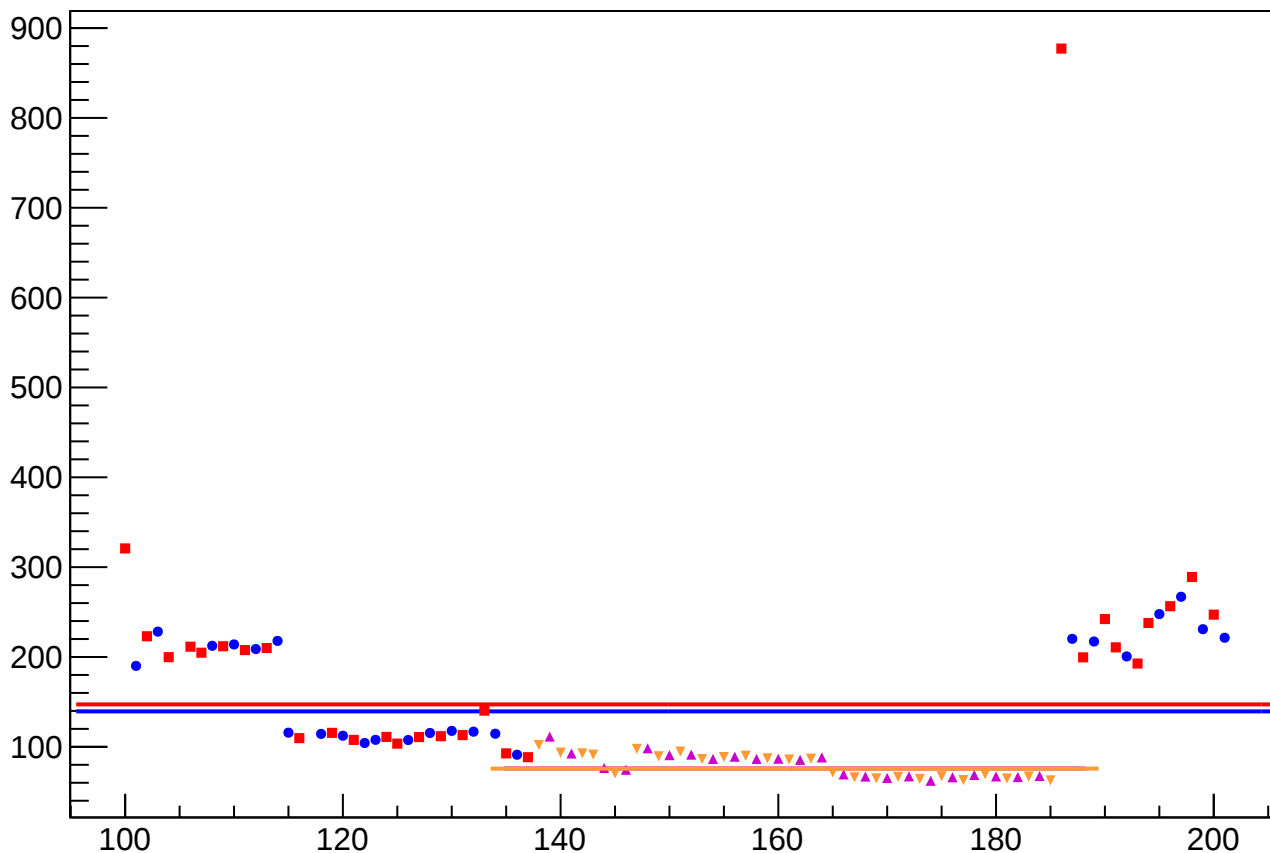
Right: 68.527 ± 31.550 $\chi^2/\text{NDF}: 49.8/51$

In: 70.450 ± 17.046 $\chi^2/\text{NDF}: 35.4/46$

Out: 8.600 ± 16.622 $\chi^2/\text{NDF}: 79.5/52$

All: 38.745 ± 11.901 $\chi^2/\text{NDF}: 121.6/99$

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 139.469 $\pm$ 0.032 χ^2 /NDF: 2843075.6/23

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 147.247 $\pm$ 0.032 χ^2 /NDF: 3745824.5/27

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

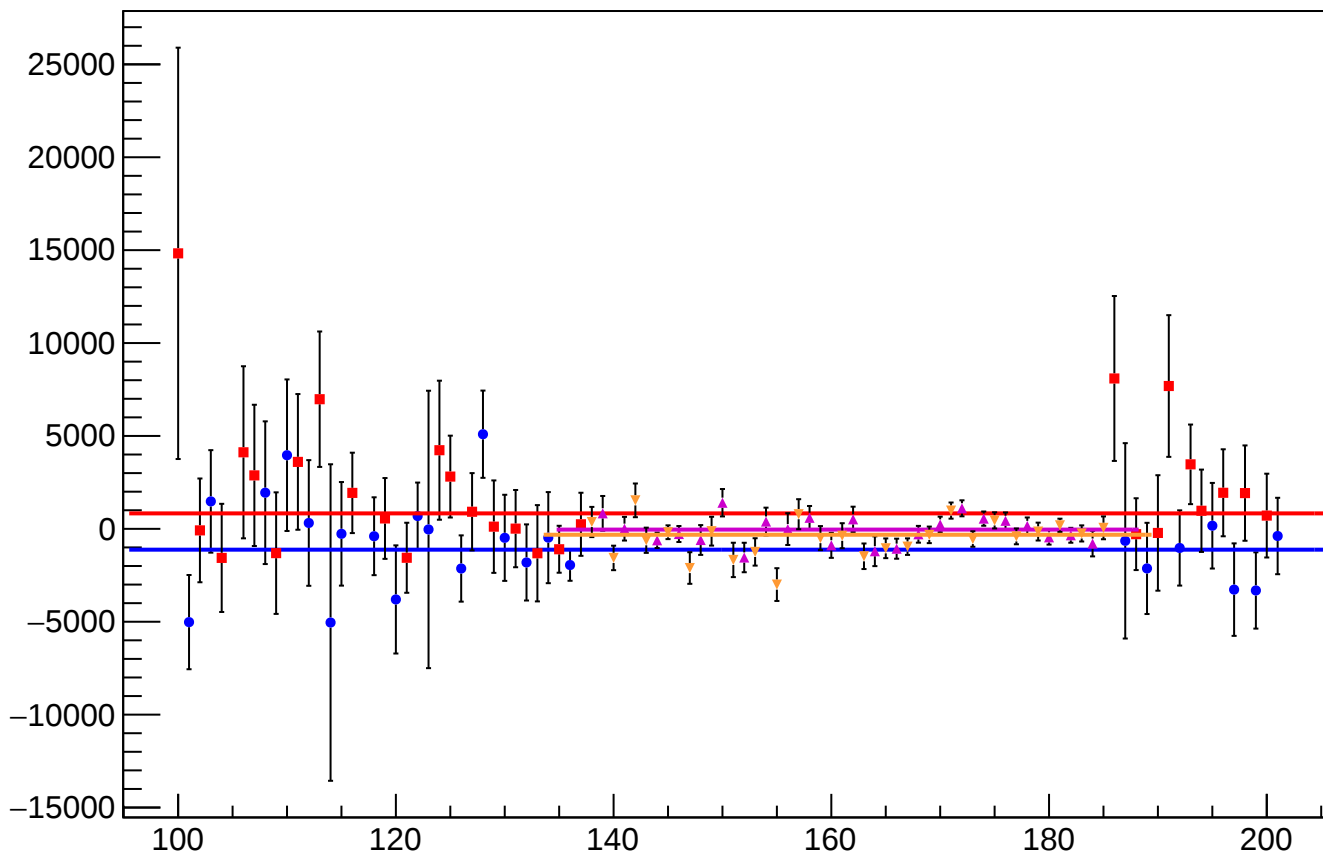
Right: 143.356 $\pm$ 0.022 χ^2 /NDF: 6619286.3/51

In: 85.192 $\pm$ 0.012 χ^2 /NDF:7142285.0/46

Out: 85.660 $\pm$ 0.012 χ^2 /NDF:9105238.0/52

All: 85.432 $\pm$ 0.008 χ^2 /NDF: 16248296.0/99

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1121.239 $\pm$ 444.411 χ^2 /NDF: 19.0/23

Left Out: -318.064 $\pm$ 108.014 χ^2 /NDF:50.0/24

Right Out: 831.850 $\pm$ 456.995 χ^2 /NDF: 22.2/27

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

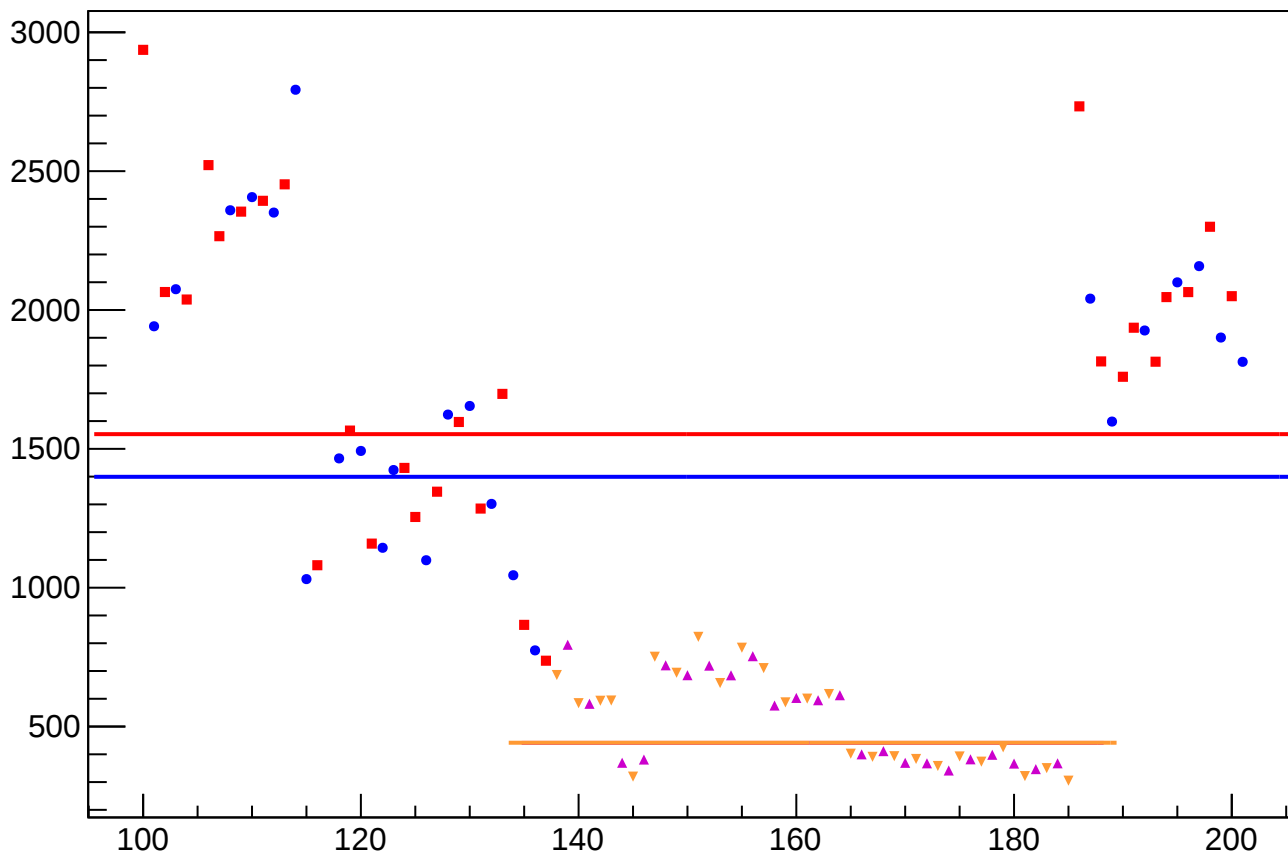
Right: -171.955 $\pm$ 318.602 χ^2 /NDF: 50.6/51

In: -103.134 $\pm$ 107.008 χ^2 /NDF:59.3/46

Out: -257.224 $\pm$ 105.117 χ^2 /NDF:78.2/52

All: -181.553 $\pm$ 74.989 χ^2 /NDF: 138.6/99

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1399.324+/-0.314 χ^2/NDF : 2730553.7/23

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1552.953+/-0.323 χ^2/NDF : 2692490.5/27

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

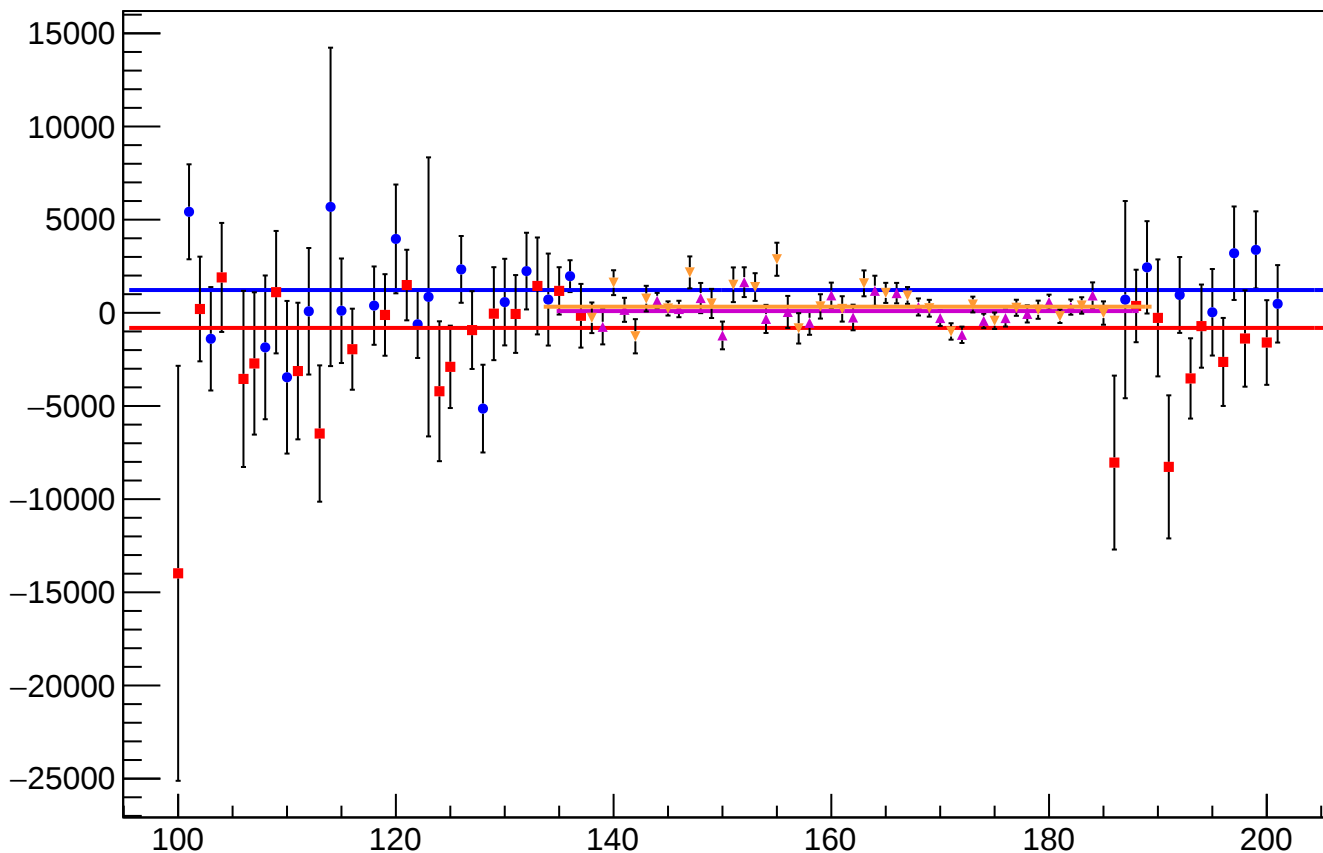
Right: 1473.994+/-0.225 χ^2/NDF : 5539210.8/51

In: 496.570+/-0.076 χ^2/NDF : 14088267.4/46

Out: 500.480+/-0.074 χ^2/NDF : 17062129.2/52

All: 498.560+/-0.053 χ^2/NDF : 31151755.4/99

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1223.148 $\pm$ 447.203 χ^2 /NDF: 19.3/23

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -810.317 $\pm$ 459.873 χ^2 /NDF: 22.2/27

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

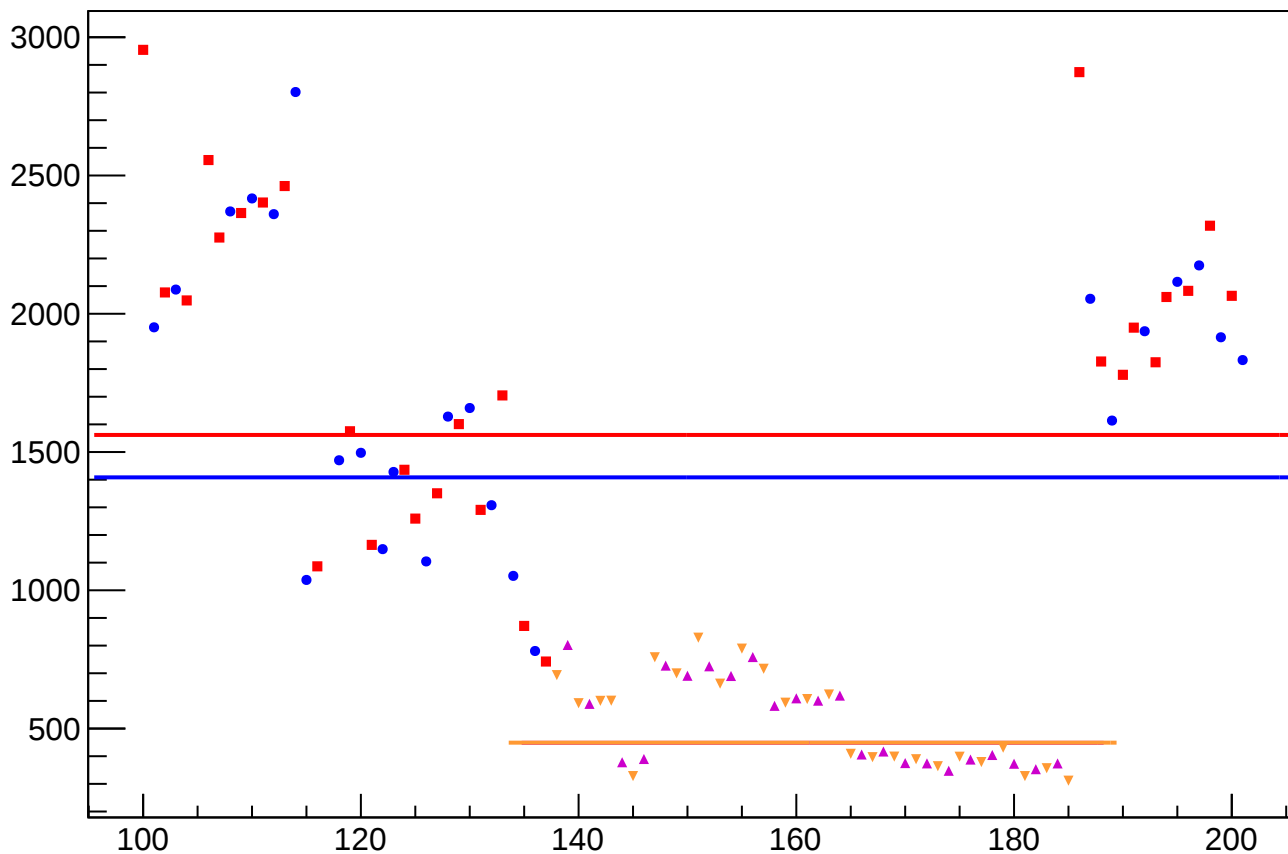
Right: 234.812 $\pm$ 320.606 χ^2 /NDF: 51.6/51

In: 159.949 $\pm$ 108.608 χ^2 /NDF: 58.7/46

Out: 267.313 $\pm$ 106.677 χ^2 /NDF: 75.7/52

All: 214.594 $\pm$ 76.105 χ^2 /NDF: 134.9/99

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1408.385 $\pm$ 0.316 χ^2/NDF : 2723484.0/23

Left Out: 449.016 $\pm$ 0.078 χ^2/NDF : 3090476.2/24

Right Out: 1561.771 $\pm$ 0.325 χ^2/NDF : 2713939.5/27

Left In: 448.307 $\pm$ 0.079 χ^2/NDF : 2537376.0/22

Left: 448.669 $\pm$ 0.055 χ^2/NDF : 5627893.2/47

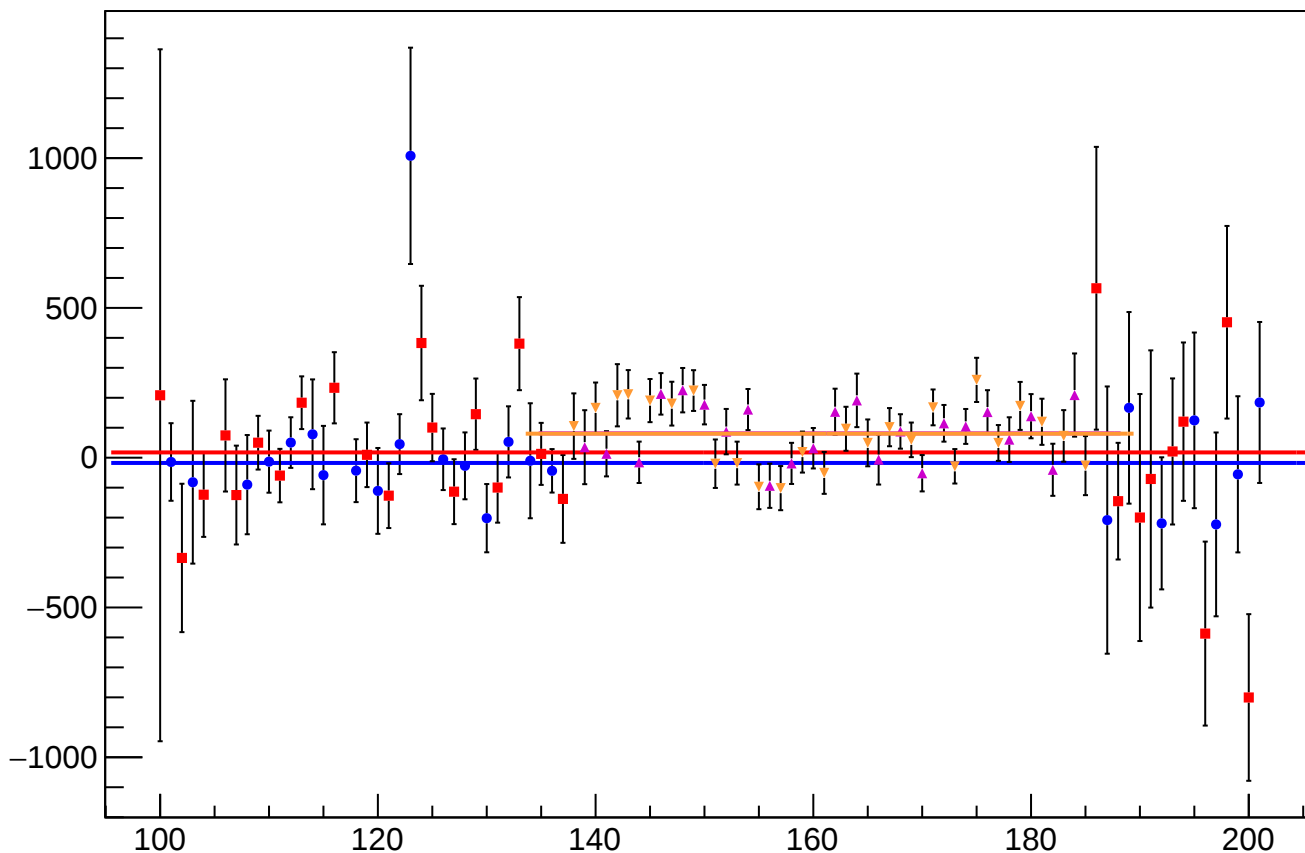
Right: 1482.936 $\pm$ 0.227 χ^2/NDF : 5551779.0/51

In: 504.933 $\pm$ 0.077 χ^2/NDF : 13935099.5/46

Out: 508.894 $\pm$ 0.075 χ^2/NDF : 16884200.4/52

All: 506.949 $\pm$ 0.054 χ^2/NDF : 30820653.6/99

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -17.538 ± 27.918 χ^2/NDF : 15.9/23

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: 17.592 ± 26.943 χ^2/NDF : 44.7/27

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

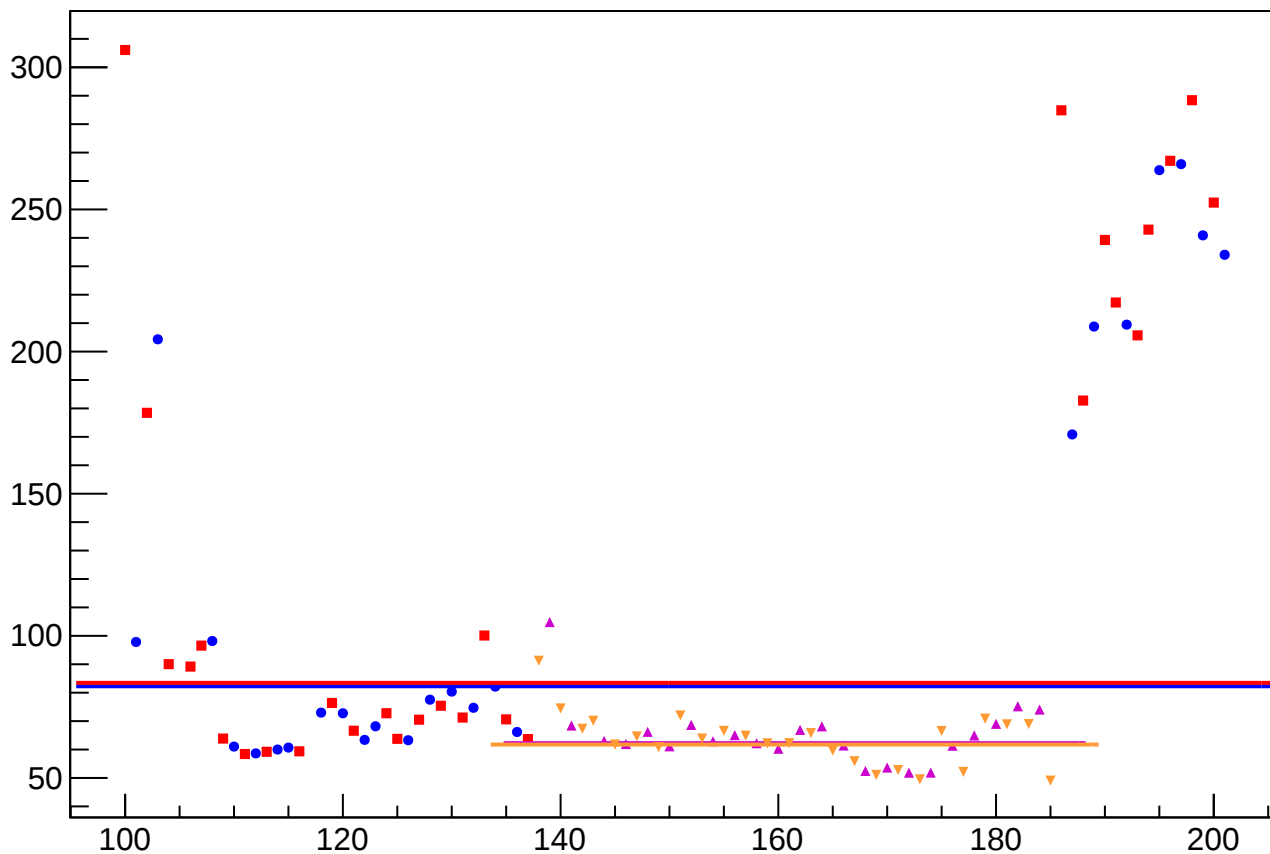
Right: 0.651 ± 19.387 χ^2/NDF : 61.4/51

In: 58.807 ± 13.285 χ^2/NDF : 60.9/46

Out: 65.978 ± 12.831 χ^2/NDF : 97.4/52

All: 62.517 ± 9.229 χ^2/NDF : 158.4/99

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 82.263 $\pm$ 0.020 χ^2 /NDF: 4953363.8/23

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 83.462 $\pm$ 0.019 χ^2 /NDF: 6010401.3/27

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

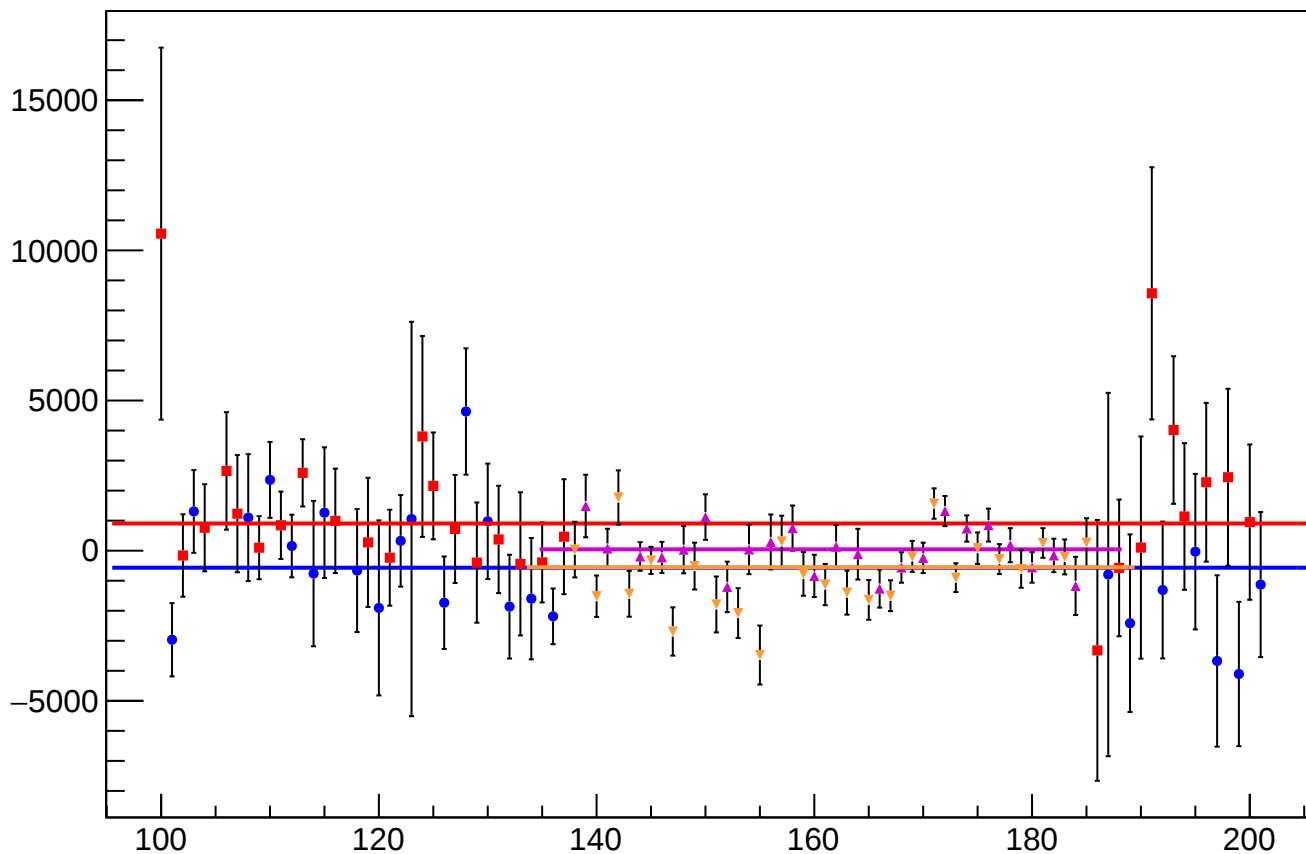
Right: 82.884 $\pm$ 0.014 χ^2 /NDF: 10965676.0/51

In: 66.782 $\pm$ 0.009 χ^2 /NDF: 6339462.6/46

Out: 66.683 $\pm$ 0.009 χ^2 /NDF: 7659149.0/52

All: 66.731 $\pm$ 0.007 χ^2 /NDF: 13998669.4/99

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -566.901 $\pm$ 358.781 χ^2 /NDF: 28.7/23

Left Out: -552.511 $\pm$ 126.981 χ^2 /NDF:65.3/24

Right Out: 904.872 $\pm$ 345.031 χ^2 /NDF: 17.3/27

Left In: 44.578 $\pm$ 129.095 χ^2 /NDF:29.6/22

Left: -258.894 $\pm$ 90.527 χ^2 /NDF: 105.7/47

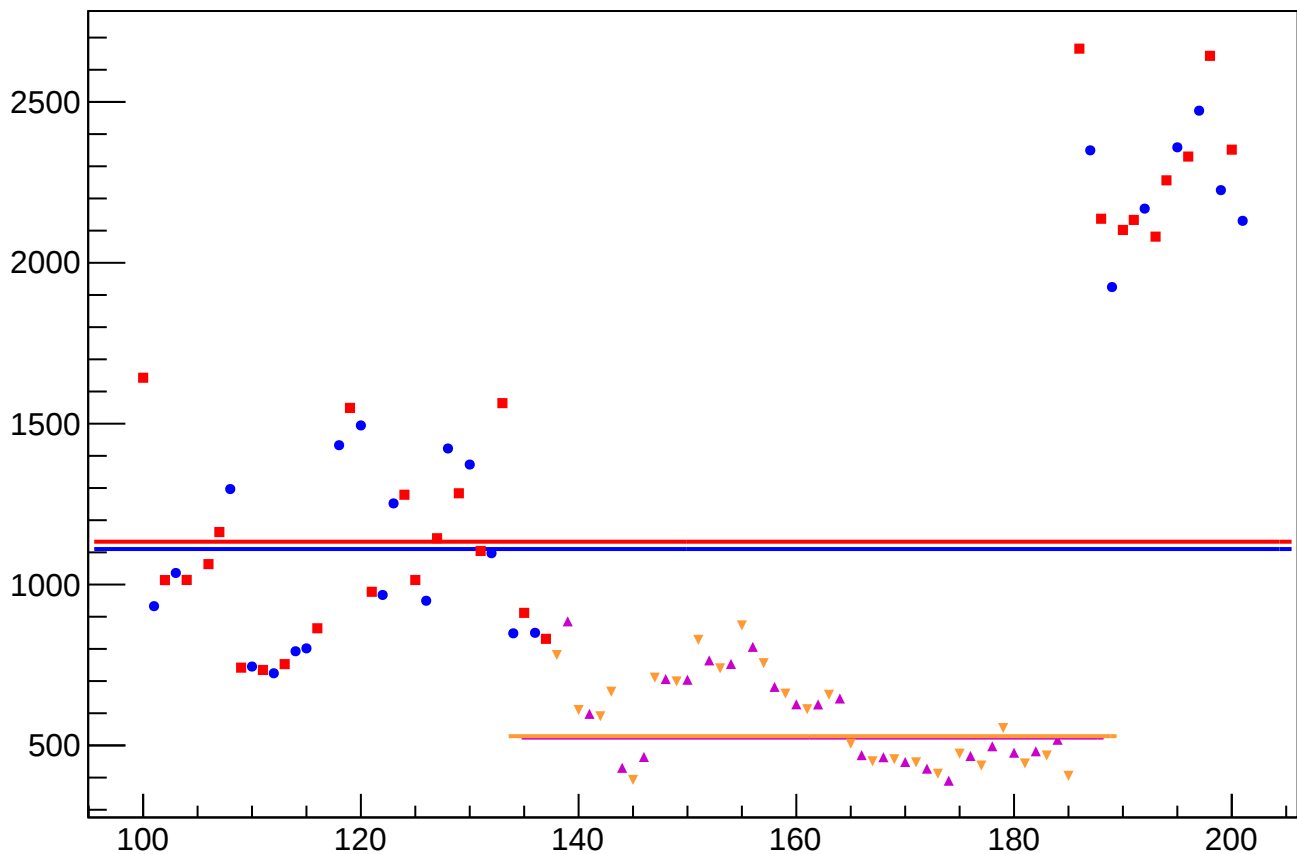
Right: 197.727 $\pm$ 248.693 χ^2 /NDF: 54.7/51

In: -25.513 $\pm$ 121.471 χ^2 /NDF:60.8/46

Out: -378.663 $\pm$ 119.167 χ^2 /NDF:98.3/52

All: -205.469 $\pm$ 85.067 χ^2 /NDF: 163.4/99

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1110.368+/-0.254 χ^2/NDF : 3351527.8/23

Left Out: 528.736+/-0.090 χ^2/NDF : 1983697.7/24

Right Out: 1133.102+/-0.244 χ^2/NDF : 4132216.6/27

Left In: 524.268+/-0.091 χ^2/NDF : 1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

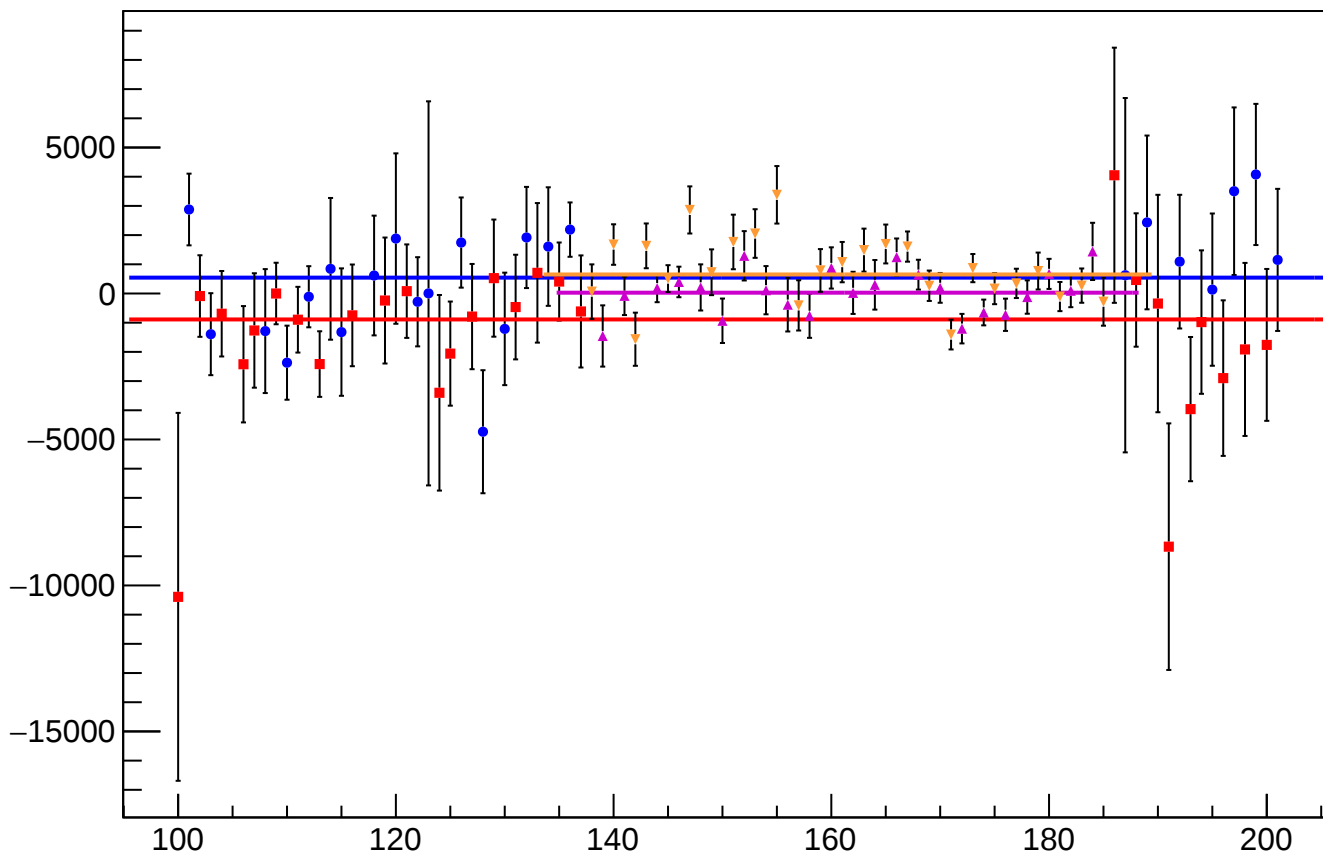
Right: 1122.179+/-0.176 χ^2/NDF : 7487916.3/51

In: 591.451+/-0.086 χ^2/NDF : 9793214.8/46

Out: 600.829+/-0.084 χ^2/NDF : 11520313.2/52

All: 596.230+/-0.060 χ^2/NDF : 21319603.3/99

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 543.425+/-360.477 χ^2/NDF : 28.7/23

Left Out: 651.560+/-127.961 χ^2/NDF : 61.1/24

Right Out: -888.951+/-346.810 χ^2/NDF : 16.6/27

Left In: 27.483+/-130.127 χ^2/NDF : 28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

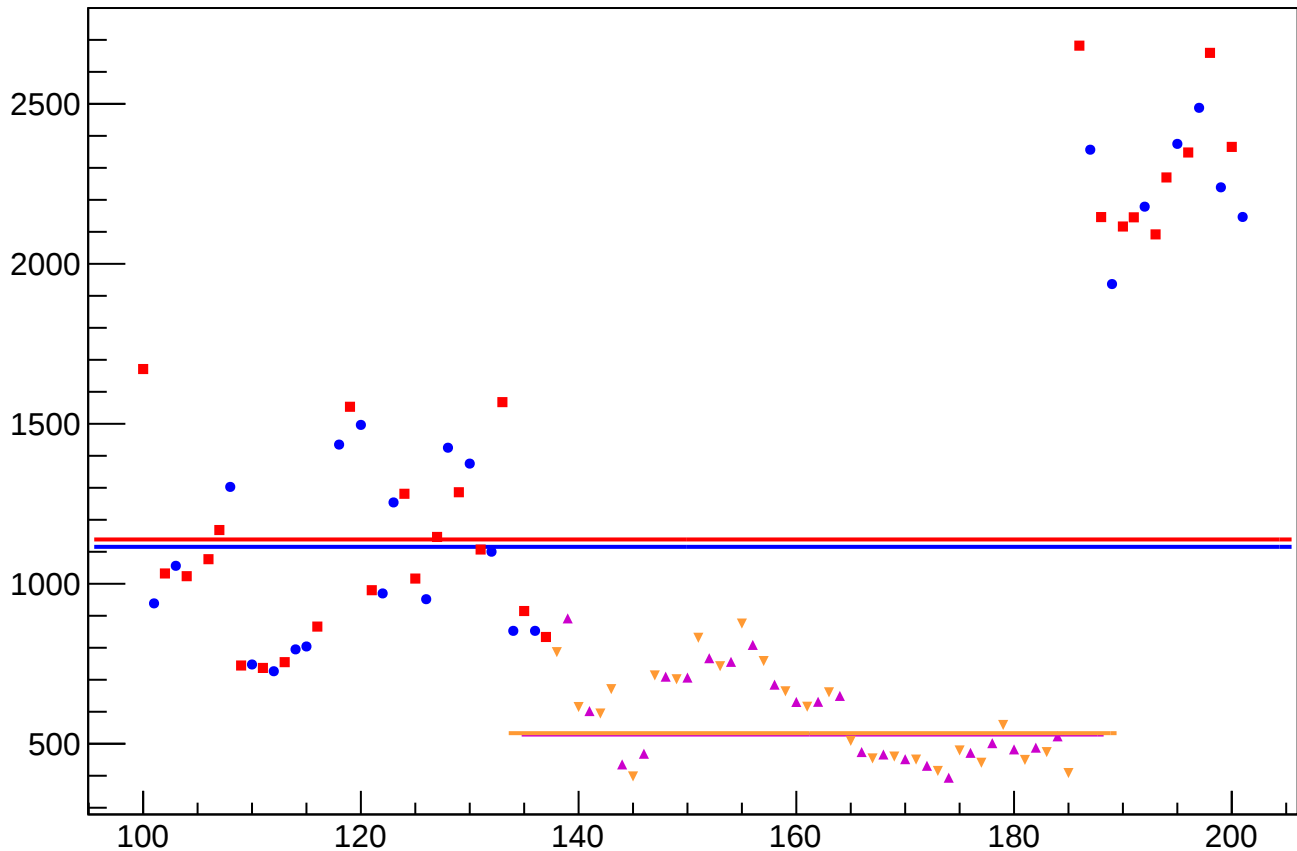
Right: -200.432+/-249.924 χ^2/NDF : 53.5/51

In: 86.964+/-122.396 χ^2/NDF : 58.9/46

Out: 466.970+/-120.050 χ^2/NDF : 95.1/52

All: 280.644+/-85.706 χ^2/NDF : 158.9/99

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1115.423+/-0.255 χ^2/NDF : 3358641.9/23

Left Out: 533.060+/-0.090 χ^2/NDF :1951536.4/24

Right Out: 1138.509+/-0.245 χ^2/NDF : 4141701.3/27

Left In: 528.694+/-0.092 χ^2/NDF :1688511.2/22

Left: 530.914+/-0.065 χ^2/NDF : 3641192.3/47

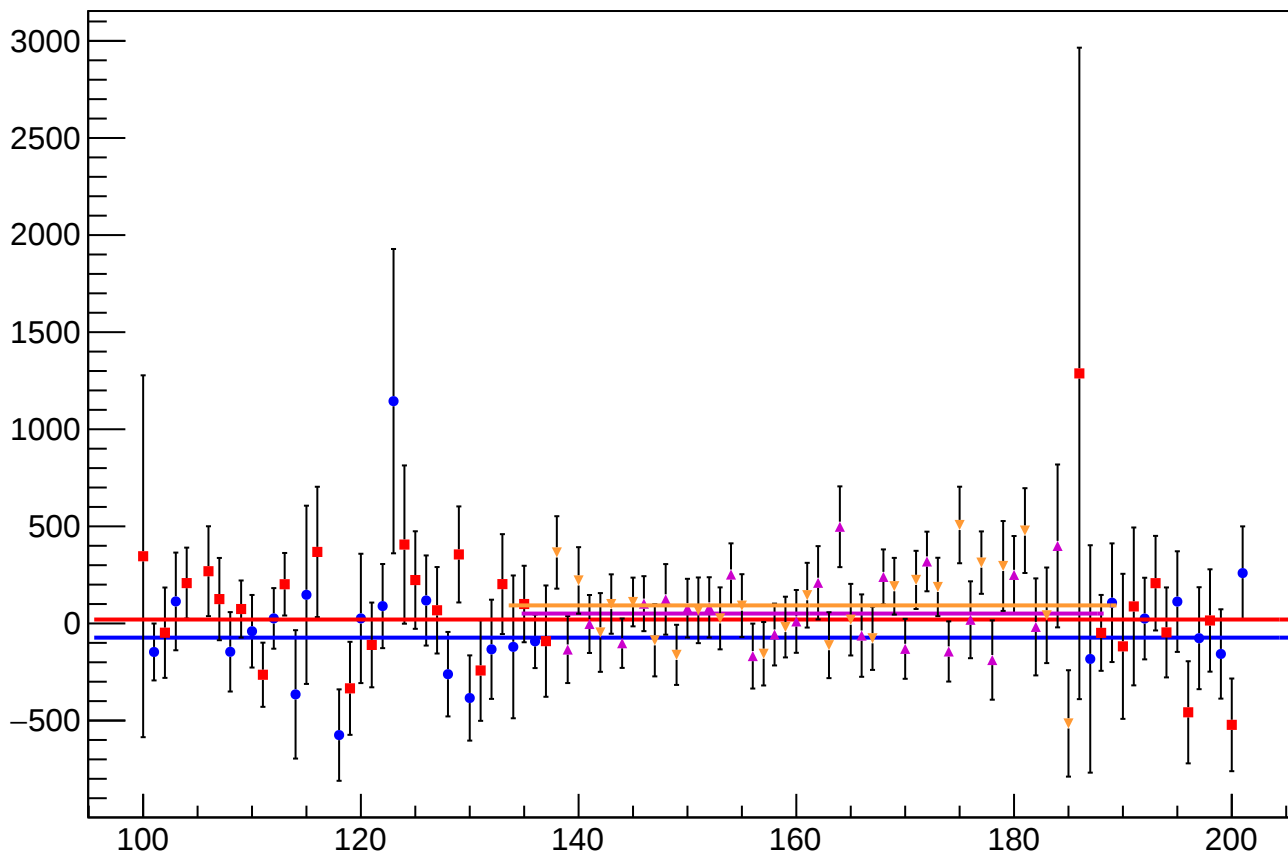
Right: 1127.412+/-0.177 χ^2/NDF : 7504603.2/51

In: 596.336+/-0.087 χ^2/NDF :9734760.5/46

Out: 605.607+/-0.085 χ^2/NDF :11458256.3/52

All: 601.061+/-0.061 χ^2/NDF : 21198865.5/99

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -73.056 ± 46.750 $\chi^2/\text{NDF}: 16.7/23$

Left Out: 92.994 ± 34.054 $\chi^2/\text{NDF}: 29.4/24$

Right Out: 20.246 ± 44.397 $\chi^2/\text{NDF}: 25.9/27$

Left In: 50.896 ± 35.280 $\chi^2/\text{NDF}: 23.5/22$

Left: 72.689 ± 24.502 $\chi^2/\text{NDF}: 53.6/47$

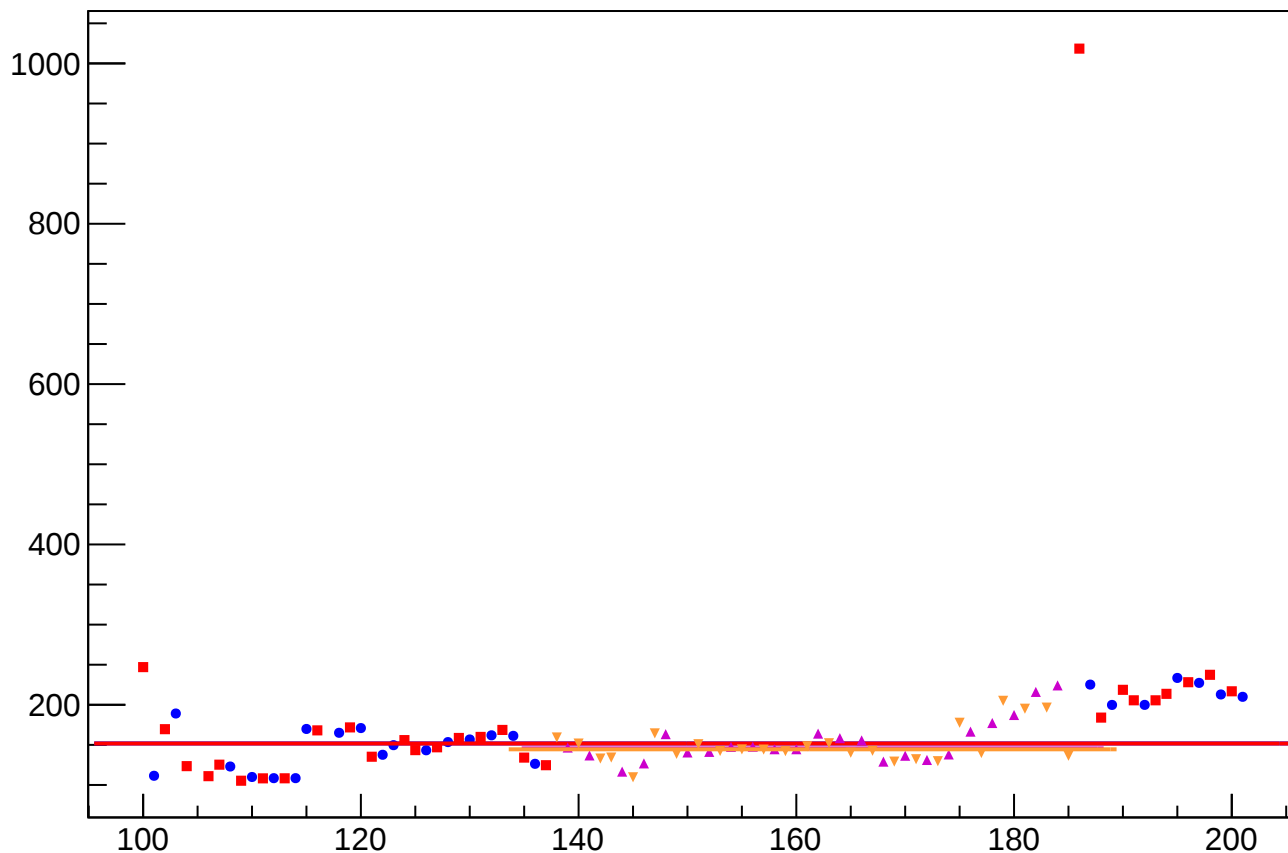
Right: -23.999 ± 32.193 $\chi^2/\text{NDF}: 44.7/51$

In: 5.919 ± 28.161 $\chi^2/\text{NDF}: 44.6/46$

Out: 66.048 ± 27.021 $\chi^2/\text{NDF}: 57.1/52$

All: 37.225 ± 19.497 $\chi^2/\text{NDF}: 104.0/99$

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 151.805 $\pm$ 0.033 χ^2 /NDF: 1432833.4/23

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 151.707 $\pm$ 0.031 χ^2 /NDF: 2194632.7/27

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

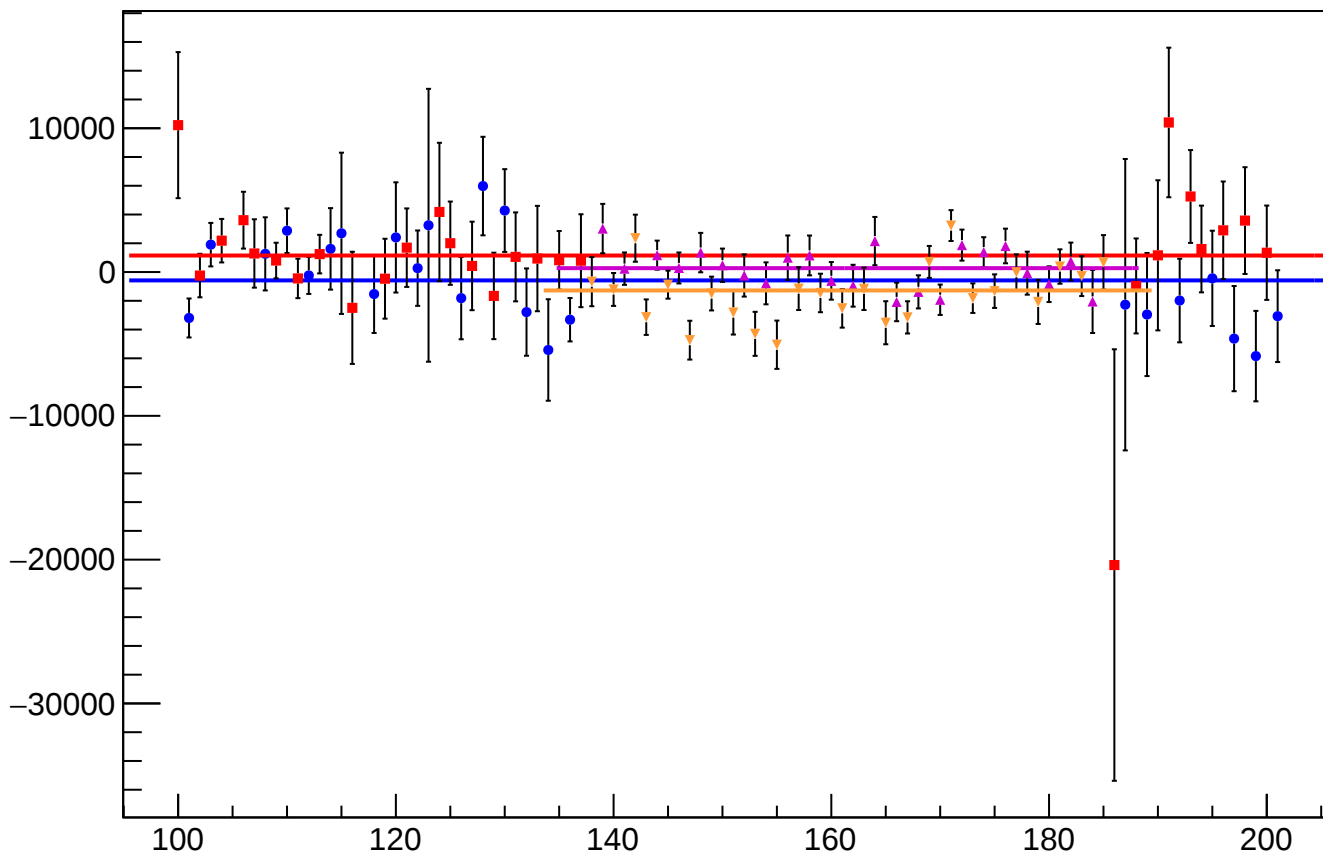
Right: 151.754 $\pm$ 0.023 χ^2 /NDF: 3627470.8/51

In: 147.810 $\pm$ 0.020 χ^2 /NDF: 2099289.3/46

Out: 147.154 $\pm$ 0.019 χ^2 /NDF: 2898529.5/52

All: 147.468 $\pm$ 0.014 χ^2 /NDF: 4998384.3/99

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -581.281+/-489.263 χ^2/NDF : 31.5/23

Left Out: -1279.328+/-259.299 χ^2/NDF : 55.9/24

Right Out: 1149.318+/-449.925 χ^2/NDF : 18.2/27

Left In: 269.952+/-266.245 χ^2/NDF : 24.3/22

Left: -525.161+/-185.759 χ^2/NDF : 97.6/47

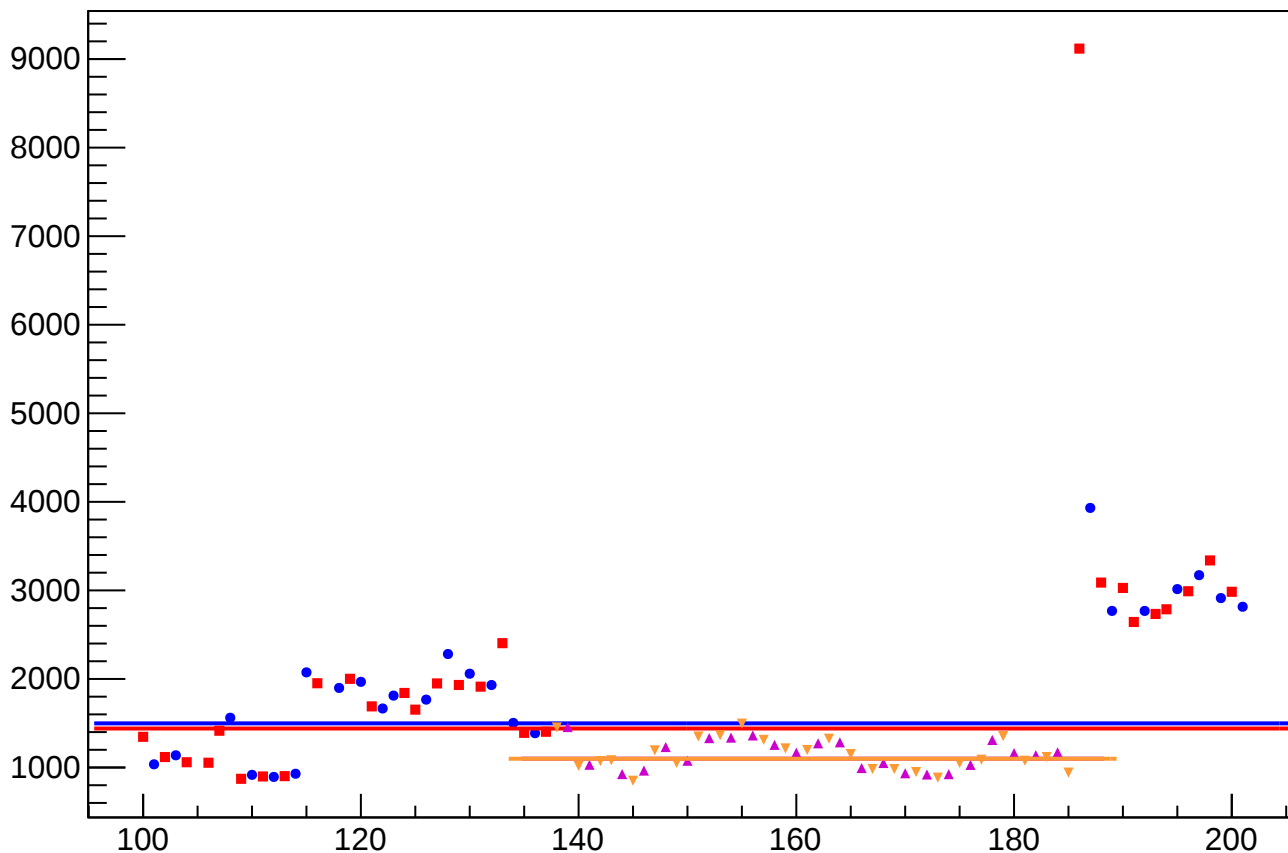
Right: 356.379+/-331.180 χ^2/NDF : 56.4/51

In: 75.470+/-233.861 χ^2/NDF : 58.1/46

Out: -673.797+/-224.660 χ^2/NDF : 96.0/52

All: -314.193+/-162.014 χ^2/NDF : 159.4/99

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1498.470+/-0.346 χ^2/NDF : 3761914.7/23

Left Out: 1098.909+/-0.183 χ^2/NDF : 824328.7/24

Right Out: 1440.475+/-0.318 χ^2/NDF : 5218852.3/27

Left In: 1099.585+/-0.188 χ^2/NDF : 679896.1/22

Left: 1099.238+/-0.131 χ^2/NDF : 1504231.4/47

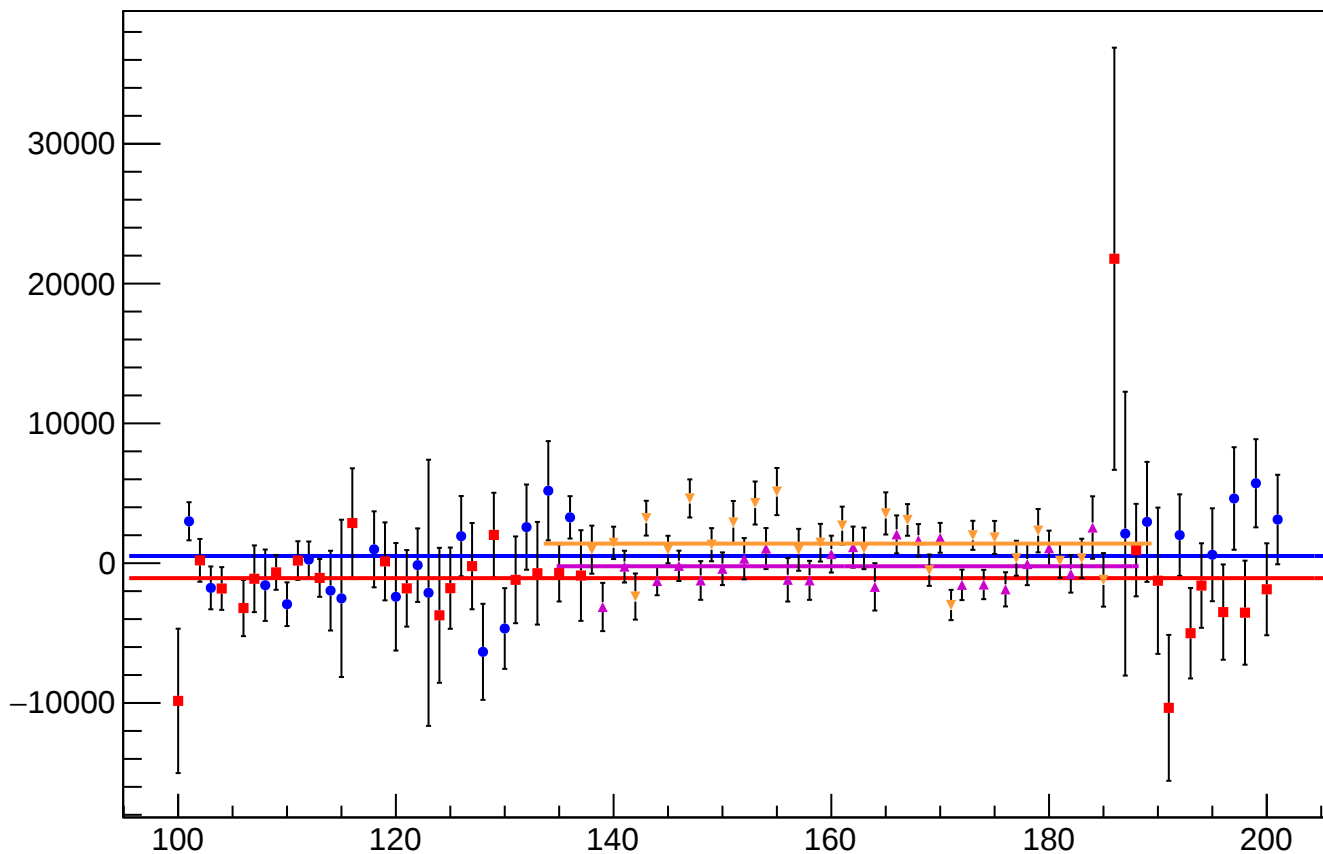
Right: 1467.048+/-0.234 χ^2/NDF : 8995992.7/51

In: 1190.719+/-0.165 χ^2/NDF : 5467447.5/46

Out: 1184.071+/-0.159 χ^2/NDF : 6908448.3/52

All: 1187.262+/-0.115 χ^2/NDF : 12376736.2/99

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 515.108+/-492.215 χ^2/NDF : 31.1/23

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -1070.750+/-453.094 χ^2/NDF : 17.0/27

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

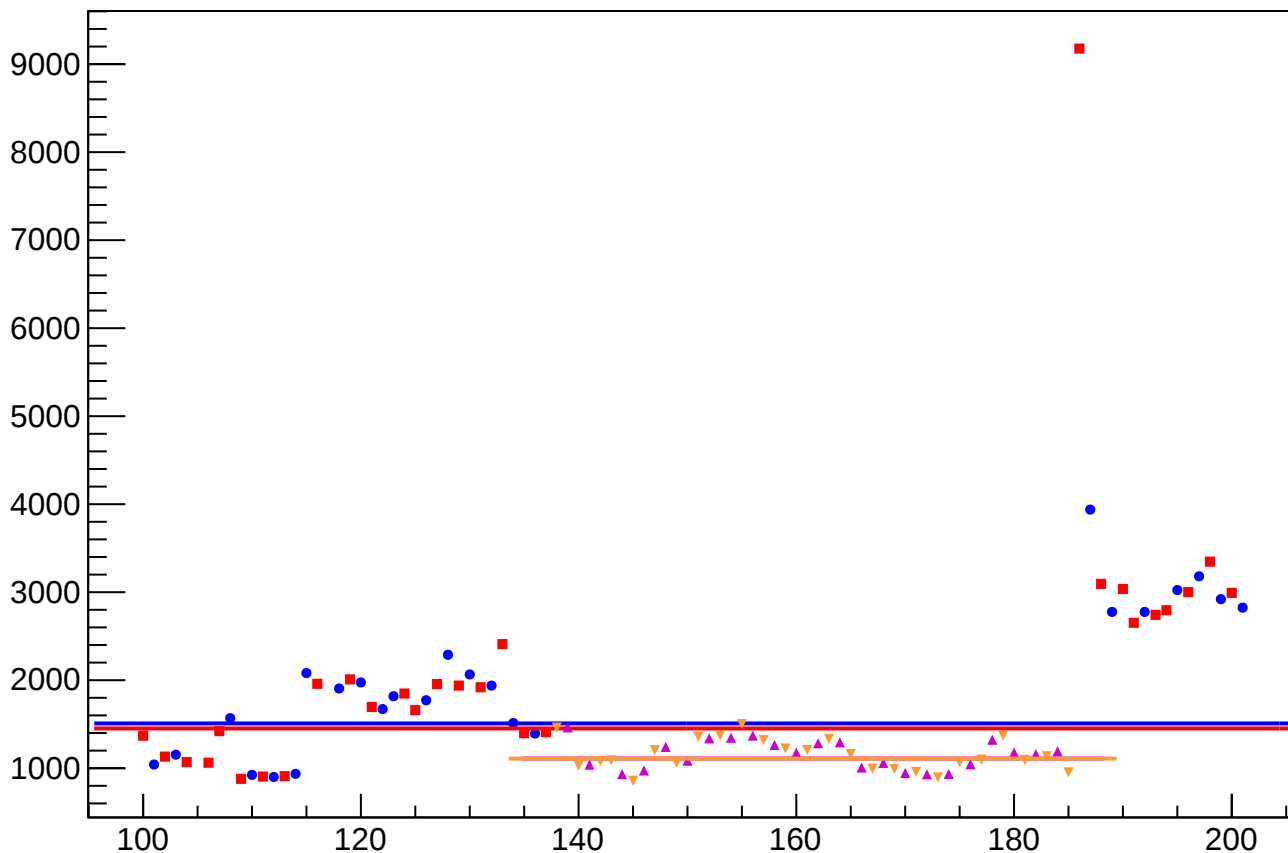
Right: -343.339+/-333.359 χ^2/NDF : 53.8/51

In: -50.613+/-235.949 χ^2/NDF : 57.8/46

Out: 781.911+/-226.683 χ^2/NDF : 91.6/52

All: 382.317+/-163.467 χ^2/NDF : 155.9/99

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1508.845 $\pm$ 0.348 χ^2/NDF : 3729883.4/23

Left Out: 1109.761 $\pm$ 0.185 χ^2/NDF : 812174.9/24

Right Out: 1451.785 $\pm$ 0.320 χ^2/NDF : 5176561.8/27

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

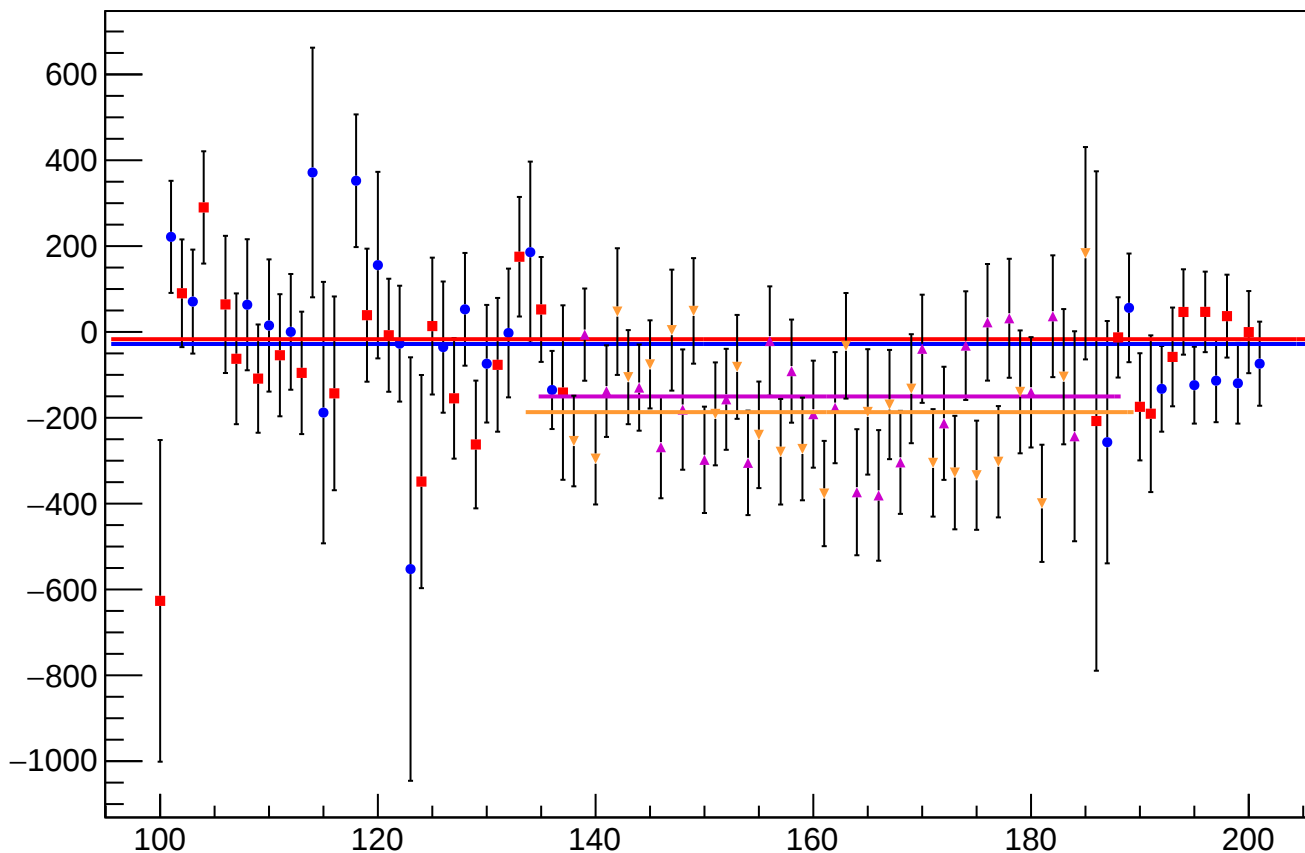
Right: 1477.957 $\pm$ 0.236 χ^2/NDF : 8920994.0/51

In: 1202.067 $\pm$ 0.167 χ^2/NDF : 5408501.5/46

Out: 1195.370 $\pm$ 0.160 χ^2/NDF : 6843120.5/52

All: 1198.585 $\pm$ 0.116 χ^2/NDF : 12252459.8/9

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -28.107 ± 26.943 $\chi^2/\text{NDF}: 23.1/23$

Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$

Right Out: -16.887 ± 25.441 $\chi^2/\text{NDF}: 22.8/27$

Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$

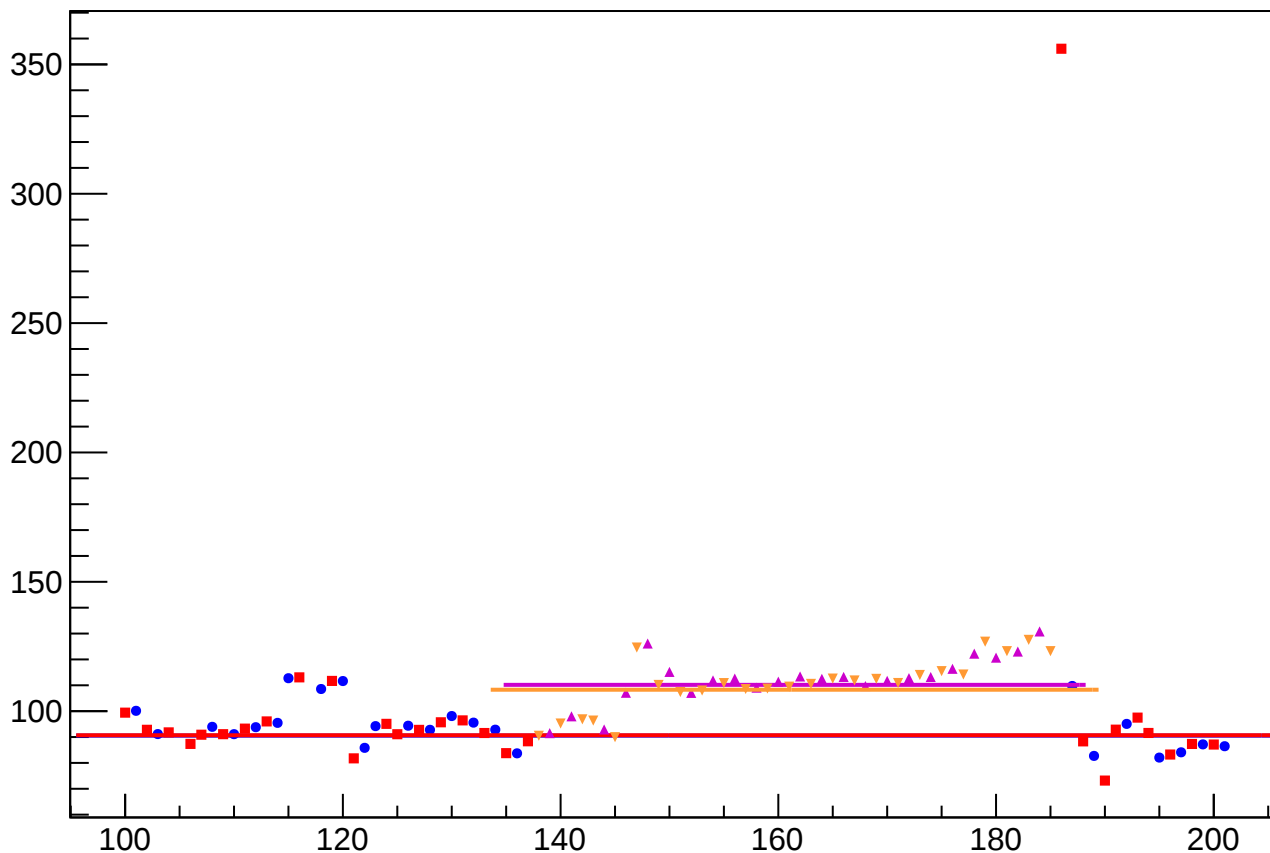
Right: -22.175 ± 18.498 $\chi^2/\text{NDF}: 45.9/51$

In: -90.351 ± 18.873 $\chi^2/\text{NDF}: 54.3/46$

Out: -102.308 ± 17.942 $\chi^2/\text{NDF}: 71.8/52$

All: -96.631 ± 13.004 $\chi^2/\text{NDF}: 126.3/99$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 90.547 $\pm$ 0.019 χ^2 /NDF: 148581.0/23

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 90.686 $\pm$ 0.018 χ^2 /NDF: 566617.0/27

Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47

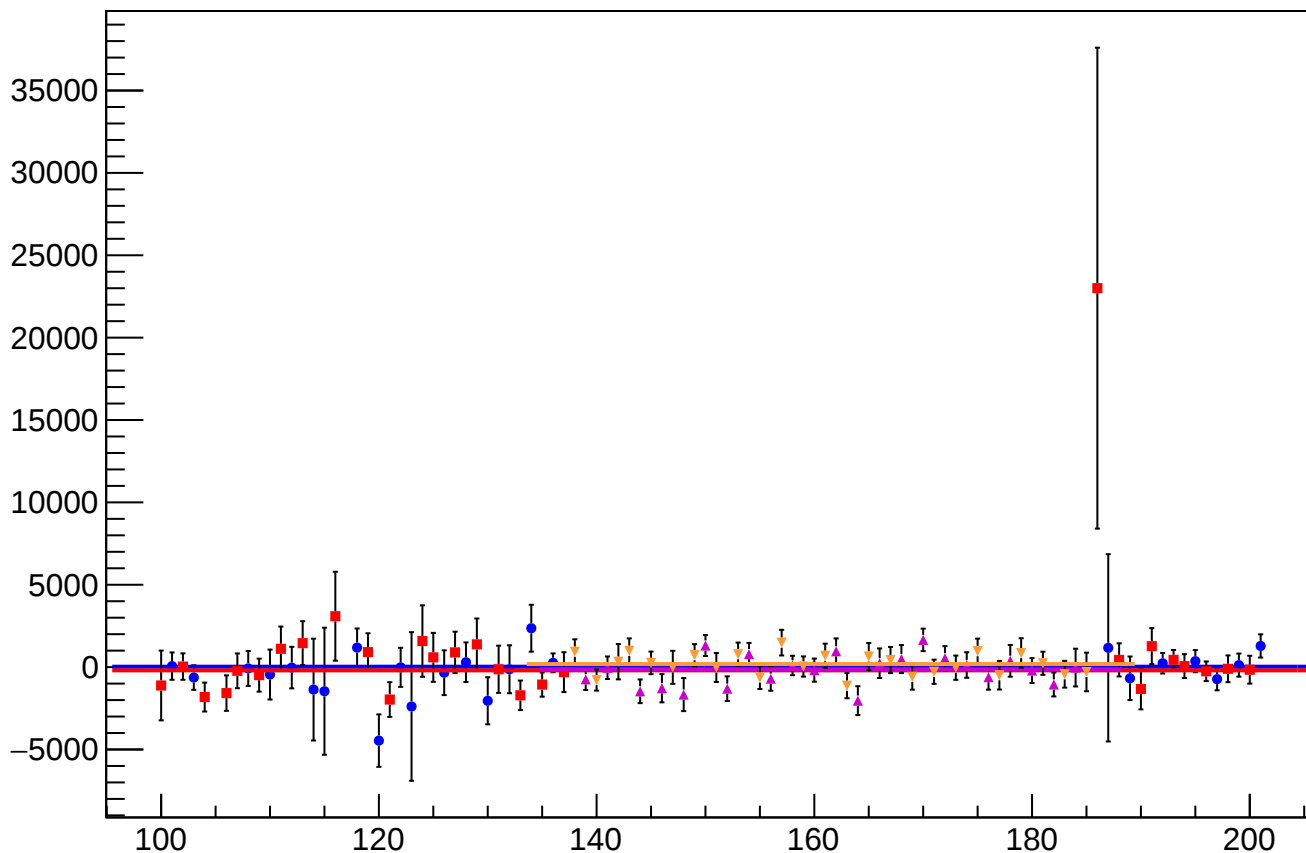
Right: 90.620 $\pm$ 0.013 χ^2 /NDF: 715225.8/51

In: 100.543 $\pm$ 0.013 χ^2 /NDF: 936043.0/46

Out: 99.533 $\pm$ 0.013 χ^2 /NDF: 1378498.9/52

All: 100.012 $\pm$ 0.009 χ^2 /NDF: 2317554.6/99

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: 25.719+/-201.430 χ^2/NDF : 20.7/23

Left Out: 185.392+/-153.683 χ^2/NDF : 18.4/24

Right Out: -196.232+/-190.168 χ^2/NDF : 27.0/27

Left In: -128.782+/-157.155 χ^2/NDF : 36.2/22

Left: 31.814+/-109.877 χ^2/NDF : 56.6/47

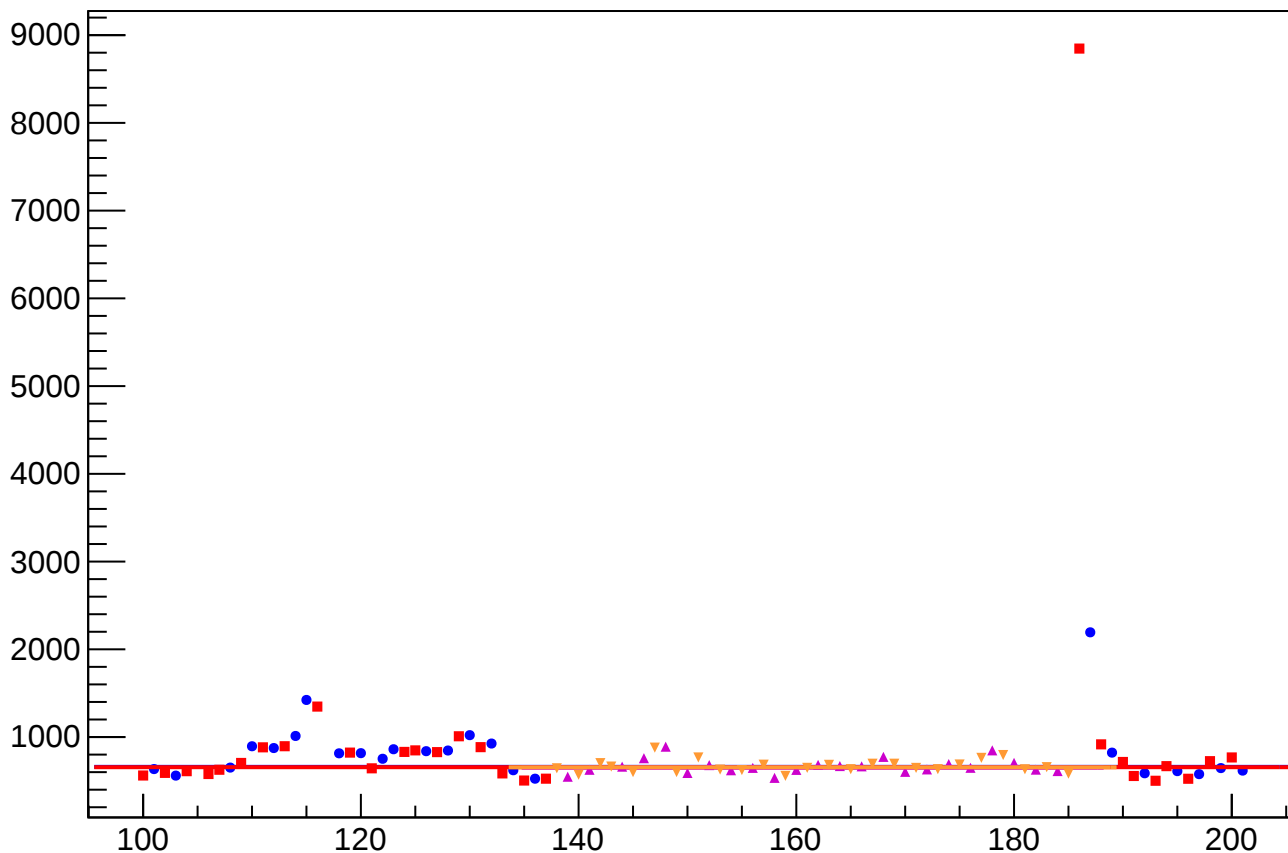
Right: -91.634+/-138.279 χ^2/NDF : 48.3/51

In: -70.321+/-123.905 χ^2/NDF : 57.3/46

Out: 34.622+/-119.530 χ^2/NDF : 47.8/52

All: -15.964+/-86.026 χ^2/NDF : 105.4/99

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 660.251+/-0.142 χ^2/NDF : 960491.9/23

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 656.404+/-0.134 χ^2/NDF : 1757190.2/27

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

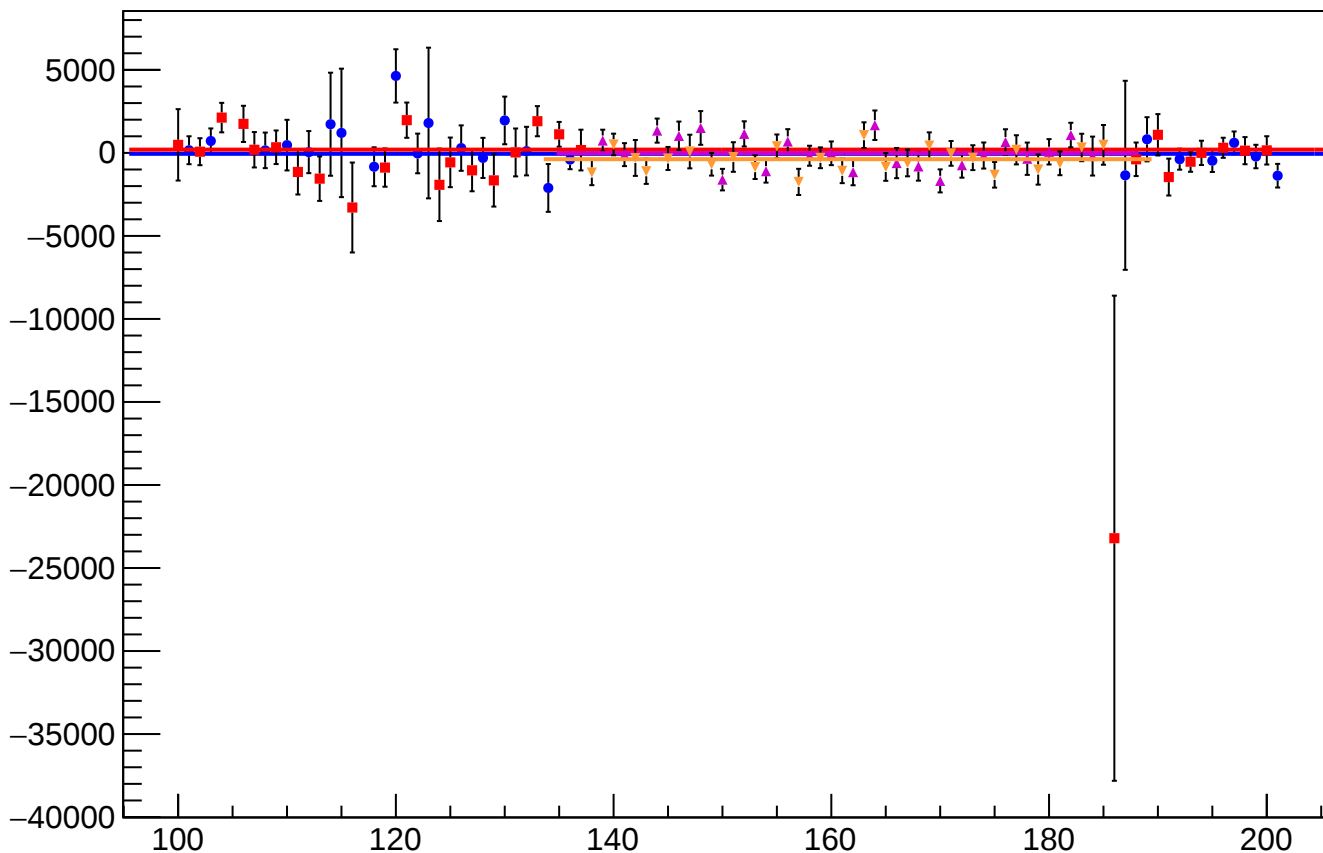
Right: 658.217+/-0.098 χ^2/NDF : 2718067.8/51

In: 654.428+/-0.088 χ^2/NDF : 1429297.9/46

Out: 655.649+/-0.085 χ^2/NDF : 2124592.2/52

All: 655.060+/-0.061 χ^2/NDF : 3553990.6/99

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -54.701 ± 203.511 χ^2/NDF : 20.9/23

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 197.615 ± 192.263 χ^2/NDF : 30.7/27

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

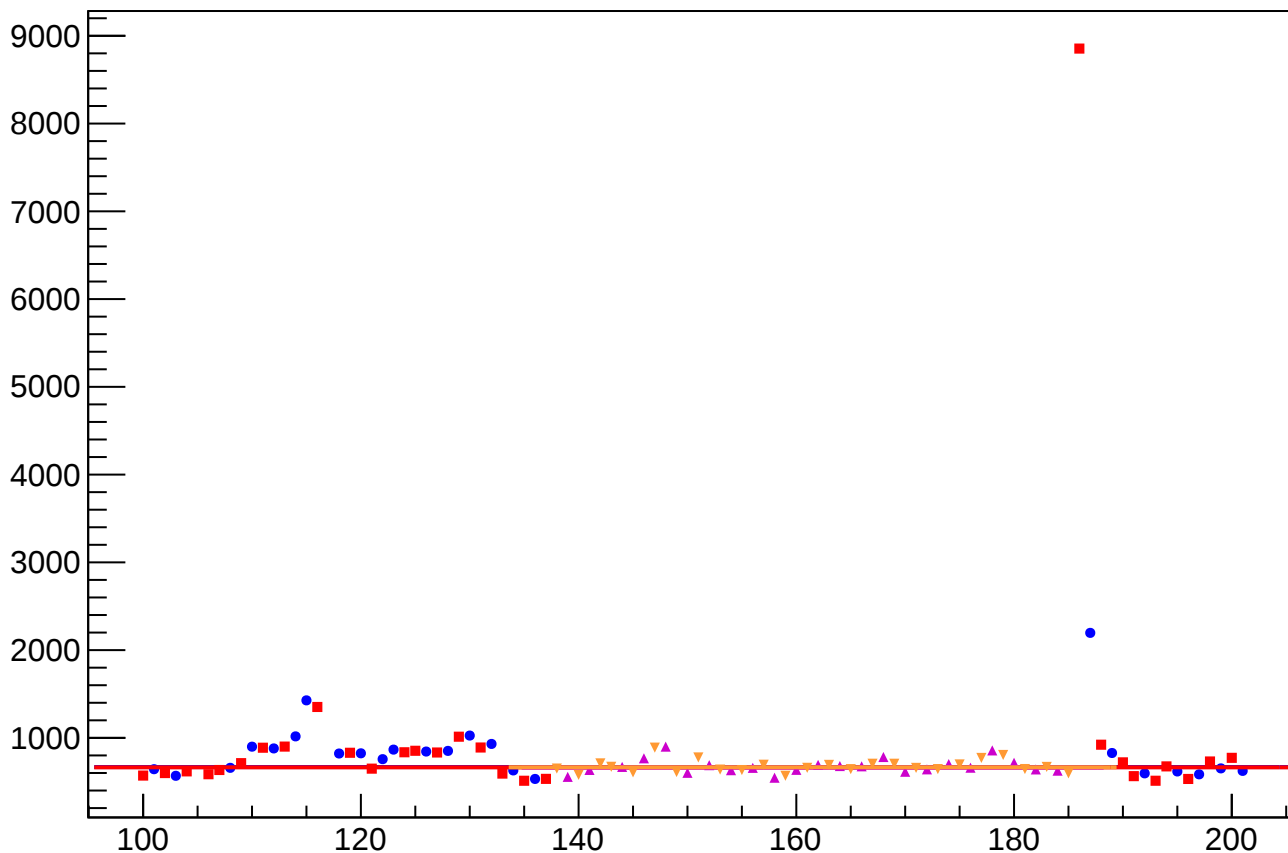
Right: 78.622 ± 139.758 χ^2/NDF : 52.3/51

In: -29.965 ± 125.544 χ^2/NDF : 58.1/46

Out: -150.563 ± 121.089 χ^2/NDF : 54.9/52

All: -92.442 ± 87.155 χ^2/NDF : 113.5/99

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 667.535 $\pm$ 0.144 χ^2 /NDF: 939246.1/23

Left Out: 664.773 $\pm$ 0.110 χ^2 /NDF: 357053.8/24

Right Out: 664.306 $\pm$ 0.136 χ^2 /NDF: 1720552.7/27

Left In: 660.890 $\pm$ 0.113 χ^2 /NDF: 449180.0/22

Left: 662.876 $\pm$ 0.079 χ^2 /NDF: 806839.8/47

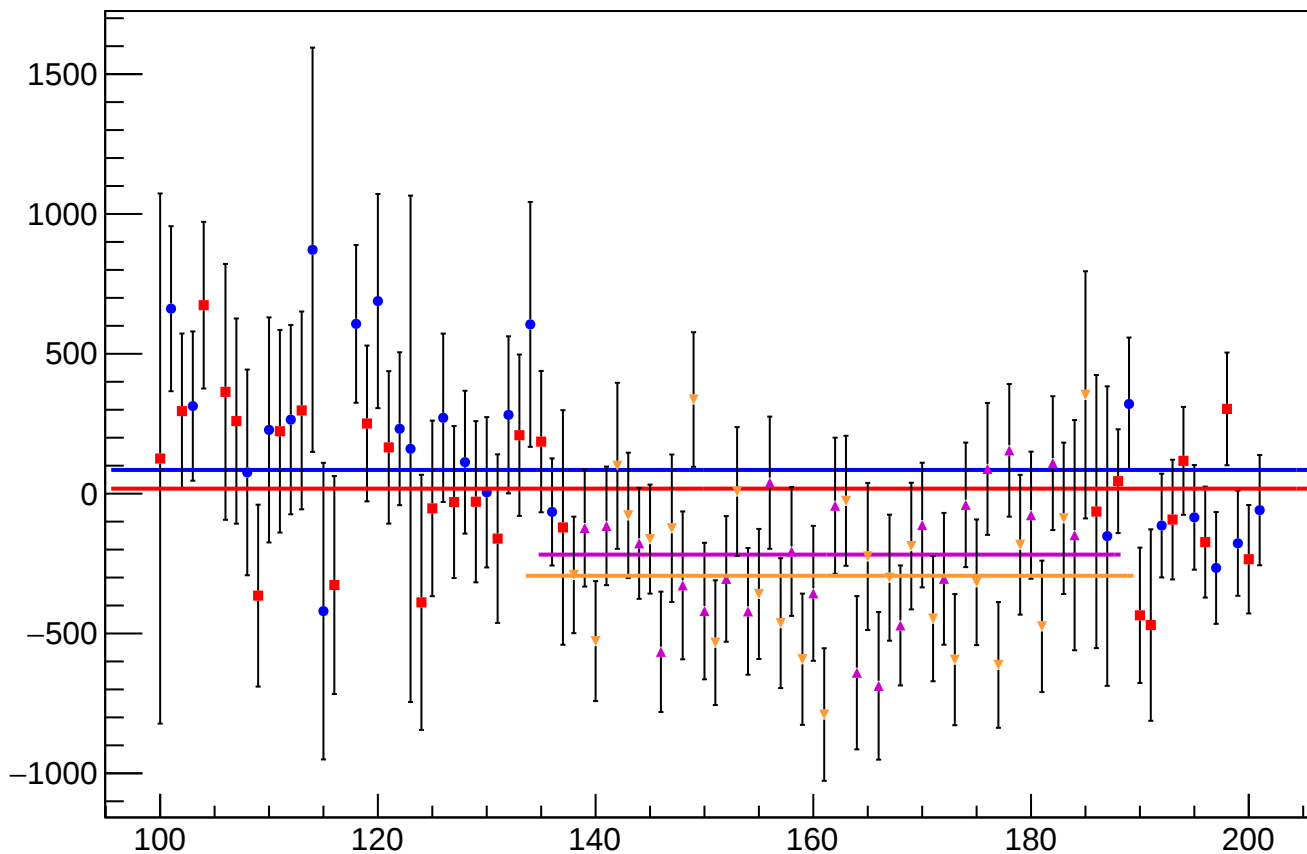
Right: 665.829 $\pm$ 0.099 χ^2 /NDF: 2660064.8/51

In: 663.419 $\pm$ 0.089 χ^2 /NDF: 1389746.8/46

Out: 664.587 $\pm$ 0.086 χ^2 /NDF: 2077613.7/52

All: 664.024 $\pm$ 0.062 χ^2 /NDF: 3467450.1/99

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 84.766 ± 55.001 $\chi^2/\text{NDF}: 25.0/23$

Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$

Right Out: 17.901 ± 52.363 $\chi^2/\text{NDF}: 24.0/27$

Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$

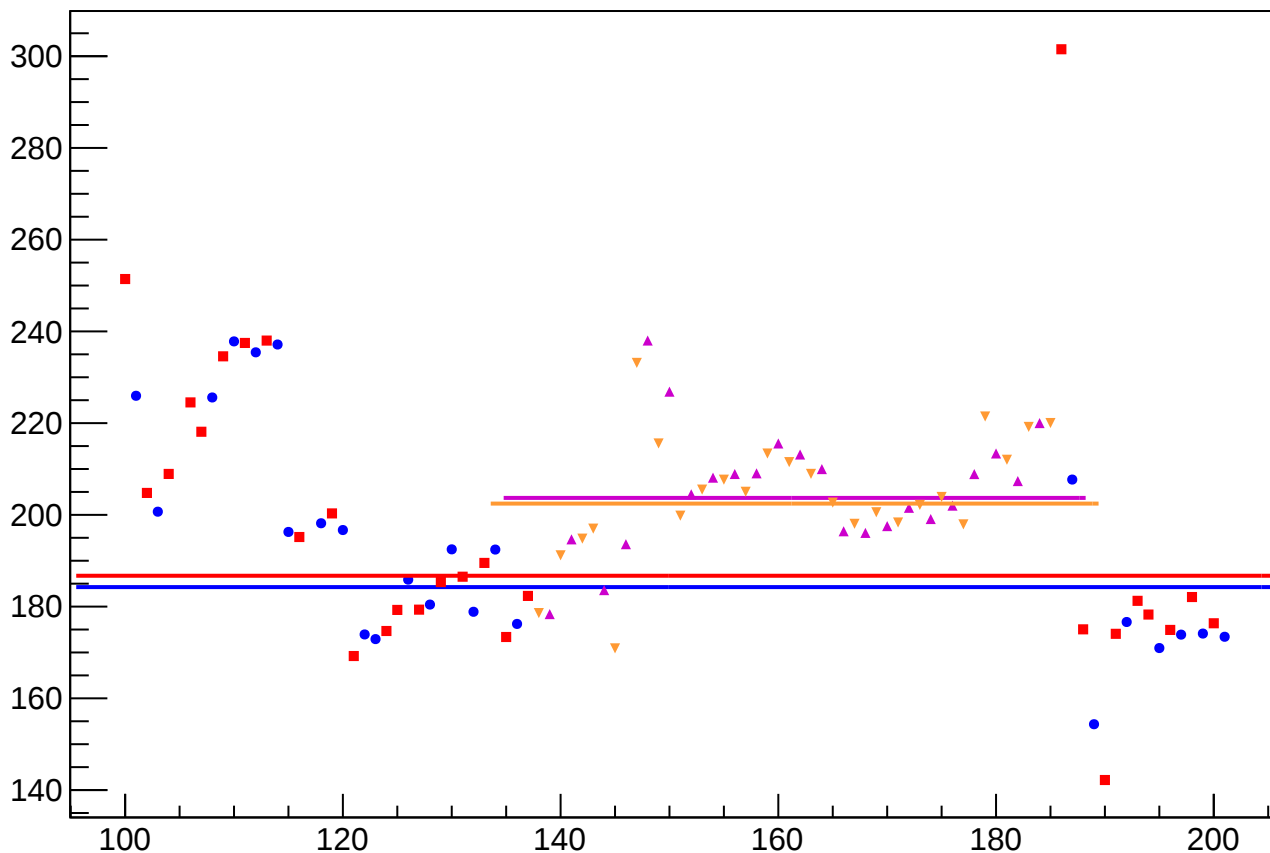
Right: 49.692 ± 37.924 $\chi^2/\text{NDF}: 49.7/51$

In: -84.561 ± 36.511 $\chi^2/\text{NDF}: 63.2/46$

Out: -153.945 ± 35.060 $\chi^2/\text{NDF}: 73.8/52$

All: -120.659 ± 25.289 $\chi^2/\text{NDF}: 138.9/99$

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 184.252 $\pm$ 0.039 χ^2 /NDF: 249392.3/23

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 186.727 $\pm$ 0.037 χ^2 /NDF: 413647.2/27

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

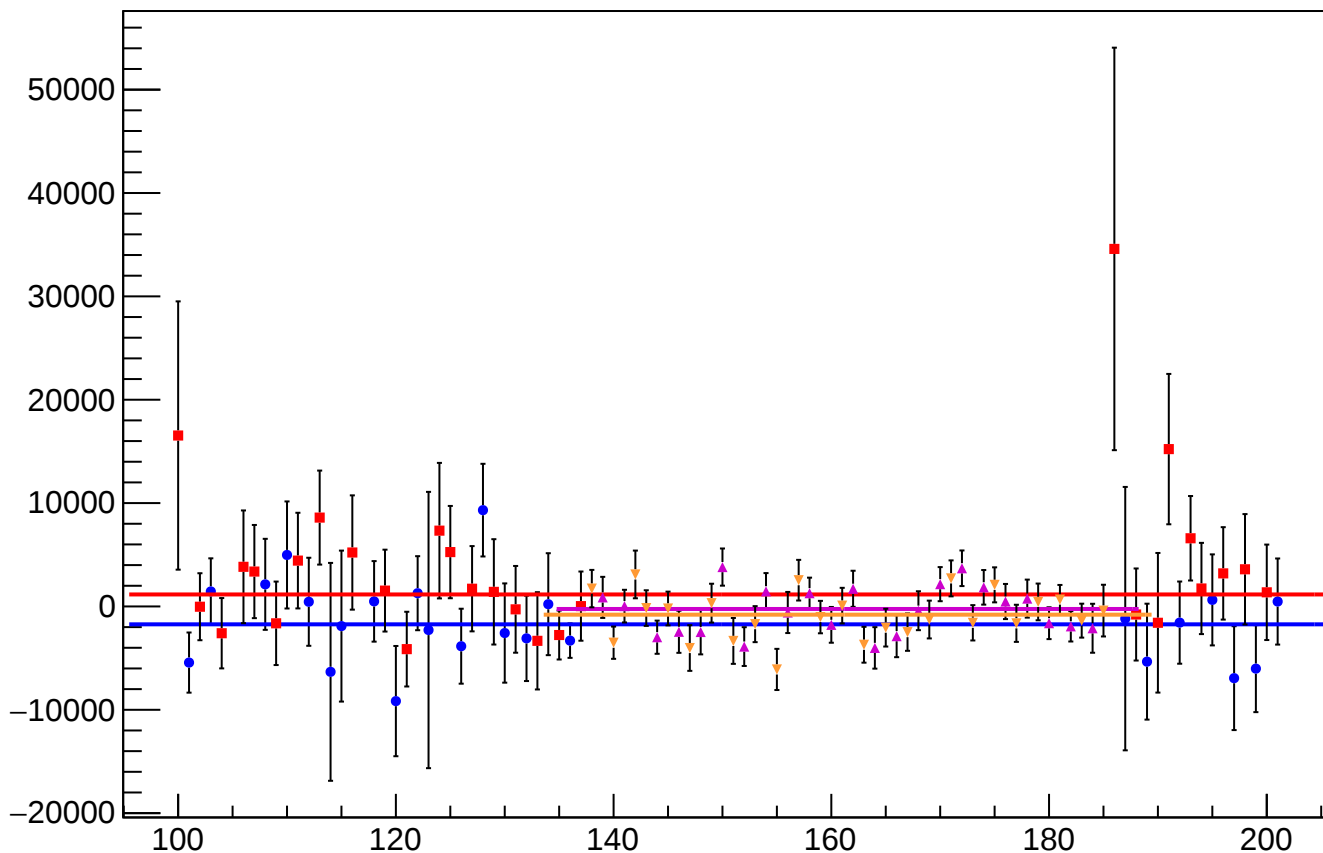
Right: 185.550 $\pm$ 0.027 χ^2 /NDF: 665162.8/51

In: 195.129 $\pm$ 0.026 χ^2 /NDF:525431.4/46

Out: 195.406 $\pm$ 0.025 χ^2 /NDF:671826.0/52

All: 195.273 $\pm$ 0.018 χ^2 /NDF: 1197317.0/99

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1730.752 ± 814.520 $\chi^2/\text{NDF}: 19.2/23$

Left Out: -796.528 ± 357.851 $\chi^2/\text{NDF}: 35.7/24$

Right Out: 1160.097 ± 822.773 $\chi^2/\text{NDF}: 24.5/27$

Left In: -245.102 ± 369.846 $\chi^2/\text{NDF}: 35.7/22$

Left: -529.902 ± 257.175 $\chi^2/\text{NDF}: 72.6/47$

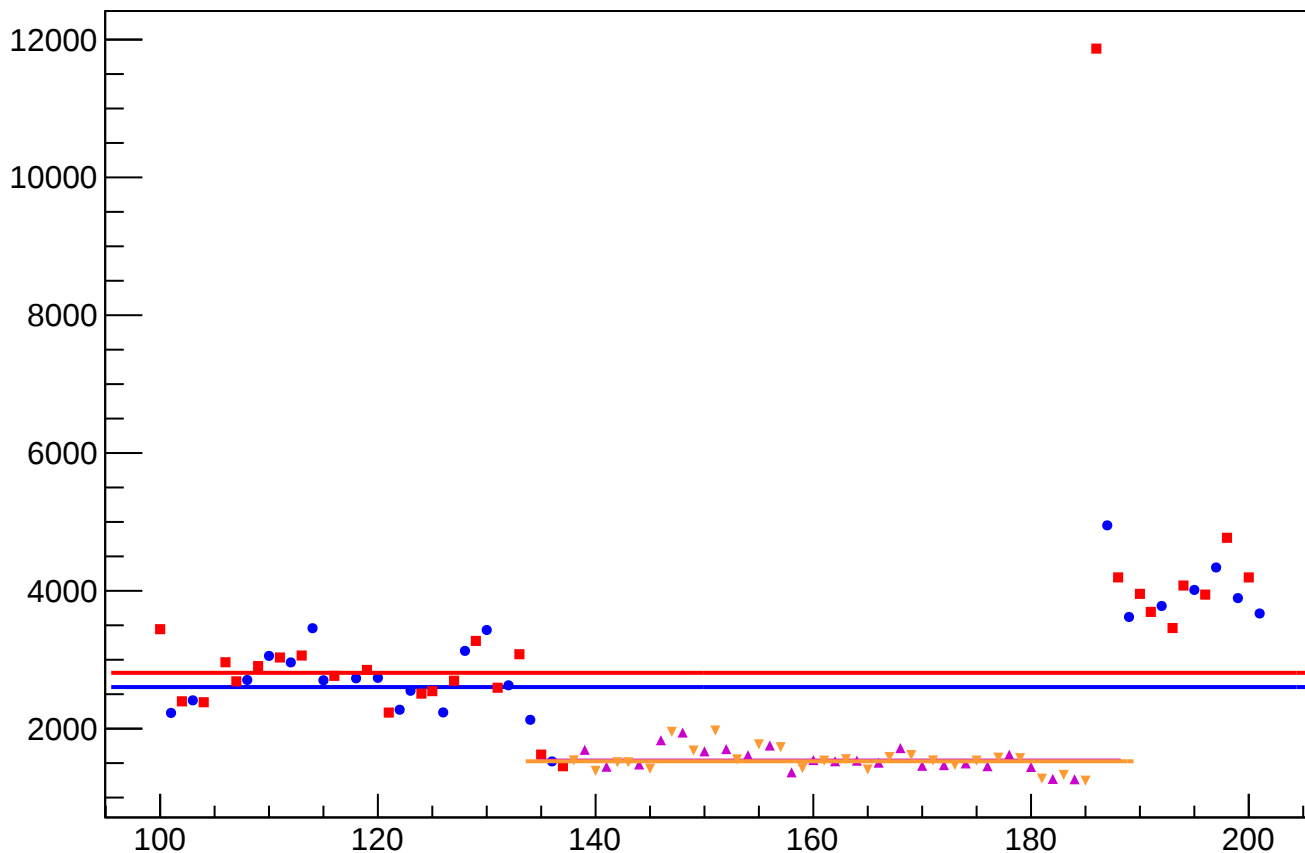
Right: -299.899 ± 578.848 $\chi^2/\text{NDF}: 49.9/51$

In: -499.050 ± 336.756 $\chi^2/\text{NDF}: 57.6/46$

Out: -485.278 ± 328.156 $\chi^2/\text{NDF}: 65.0/52$

All: -491.986 ± 235.023 $\chi^2/\text{NDF}: 122.6/99$

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2603.634 $\pm$ 0.576

χ^2 /NDF: 2141504.3/23

Left: 1531.463 $\pm$ 0.182 χ^2 /NDF: 745995.2/47

Right: 2705.946 $\pm$ 0.409 χ^2 /NDF: 4718970.9/51

Left Out: 1526.712 $\pm$ 0.253

χ^2 /NDF: 394892.7/24

In: 1718.941 $\pm$ 0.238 χ^2 /NDF: 5337801.0/46

Right Out: 2810.342 $\pm$ 0.582

χ^2 /NDF: 2513712.1/27

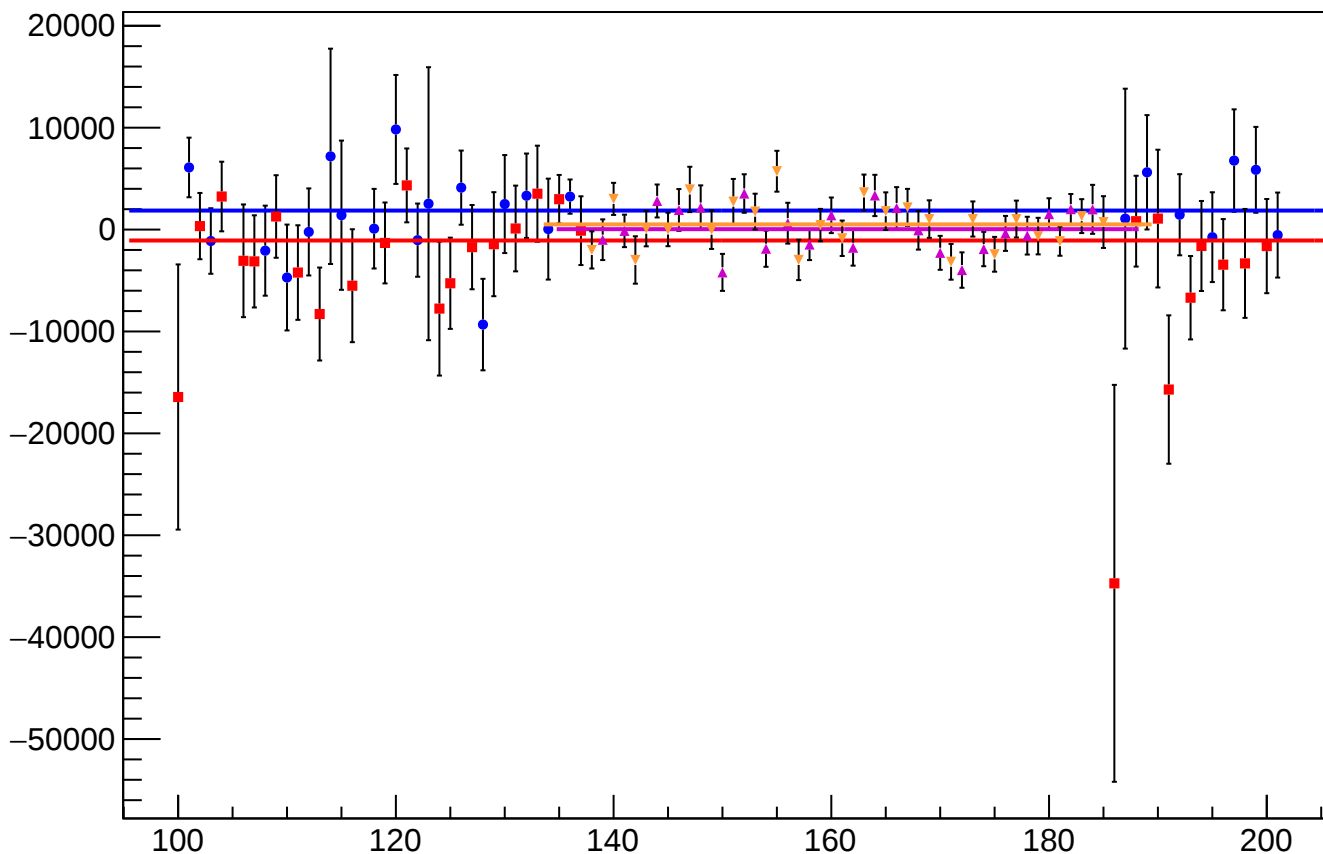
Out: 1730.905 $\pm$ 0.232 χ^2 /NDF: 7002222.5/52

Left In: 1536.538 $\pm$ 0.262

χ^2 /NDF: 350373.3/22

All: 1725.078 $\pm$ 0.166 χ^2 /NDF: 12341318.3/9

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1866.098 $\pm$ 817.553 χ^2 /NDF: 19.5/23

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF:35.4/24

Right Out: -1072.840 $\pm$ 825.552 χ^2 /NDF: 25.3/27

Left In: 40.080 $\pm$ 373.261 χ^2 /NDF:33.6/22

Left: 281.730 $\pm$ 259.556 χ^2 /NDF: 69.8/47

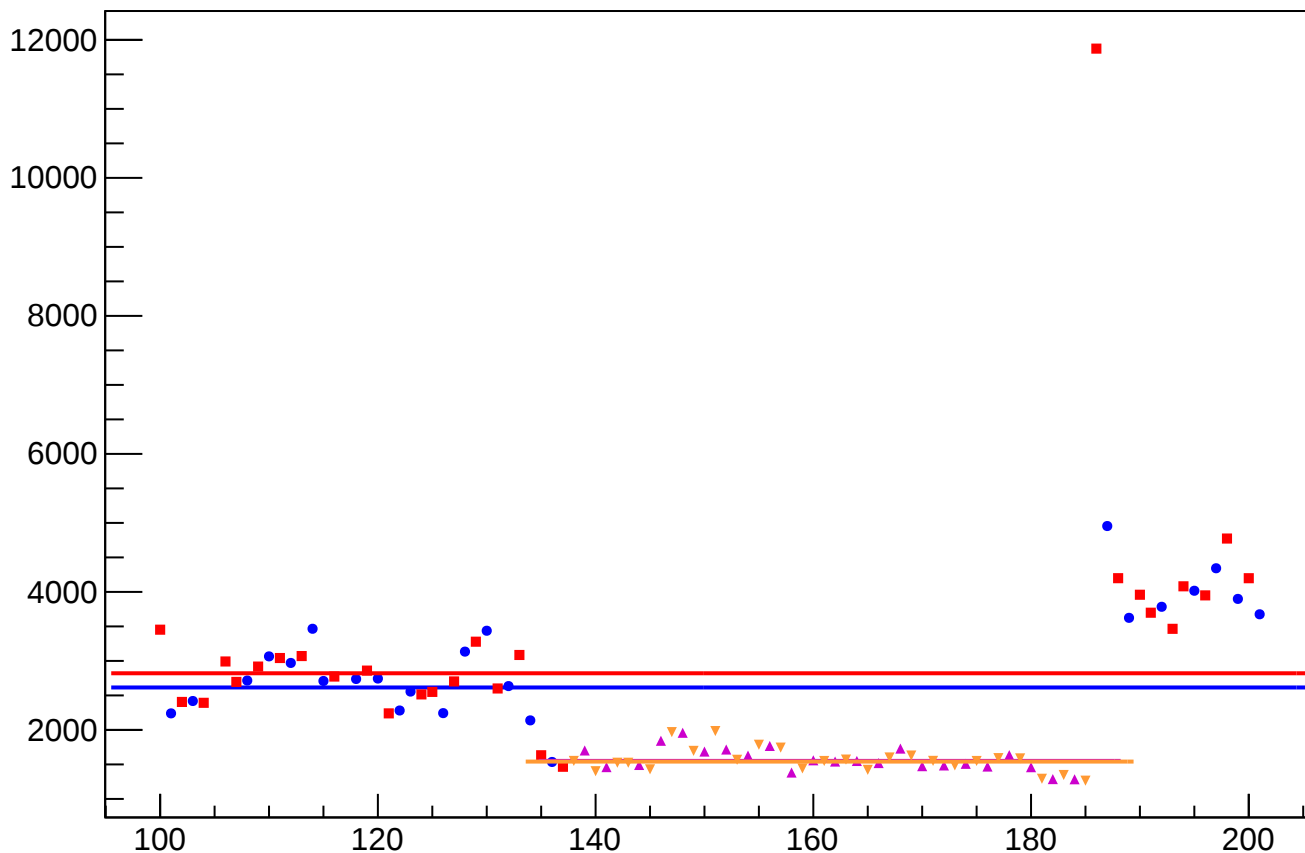
Right: 410.936 $\pm$ 580.905 χ^2 /NDF: 51.2/51

In: 355.051 $\pm$ 339.546 χ^2 /NDF:57.2/46

Out: 254.022 $\pm$ 330.892 χ^2 /NDF:63.8/52

All: 303.232 $\pm$ 236.976 χ^2 /NDF: 121.0/99

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2615.186 $\pm$ 0.578 χ^2 /NDF: 2113906.2/23

Left Out: 1541.258 $\pm$ 0.255 χ^2 /NDF: 382045.4/24

Right Out: 2820.964 $\pm$ 0.584 χ^2 /NDF: 2490257.6/27

Left In: 1551.063 $\pm$ 0.264 χ^2 /NDF: 338898.9/22

Left: 1546.000 $\pm$ 0.184 χ^2 /NDF: 721657.1/47

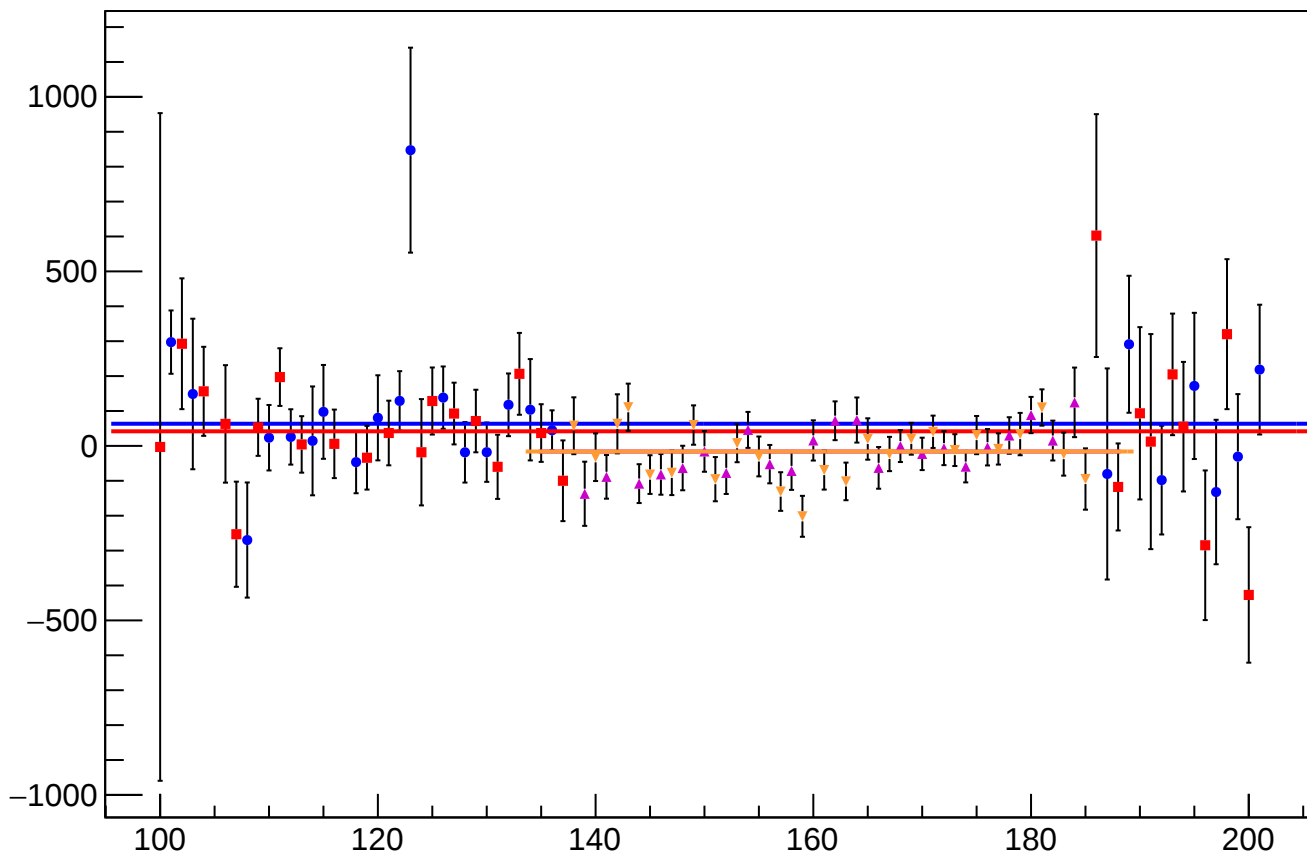
Right: 2717.074 $\pm$ 0.411 χ^2 /NDF: 4666899.8/51

In: 1734.615 $\pm$ 0.240 χ^2 /NDF: 5256653.3/46

Out: 1746.844 $\pm$ 0.234 χ^2 /NDF: 6906005.9/52

All: 1740.887 $\pm$ 0.168 χ^2 /NDF: 12163989.9/99

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 63.468 ± 22.642 χ^2/NDF : 28.6/23

Left Out: -16.049 ± 11.340 χ^2/NDF : 39.7/24

Right Out: 41.792 ± 22.321 χ^2/NDF : 32.2/27

Left In: -16.162 ± 11.649 χ^2/NDF : 25.2/22

Left: -16.104 ± 8.126 χ^2/NDF : 64.9/47

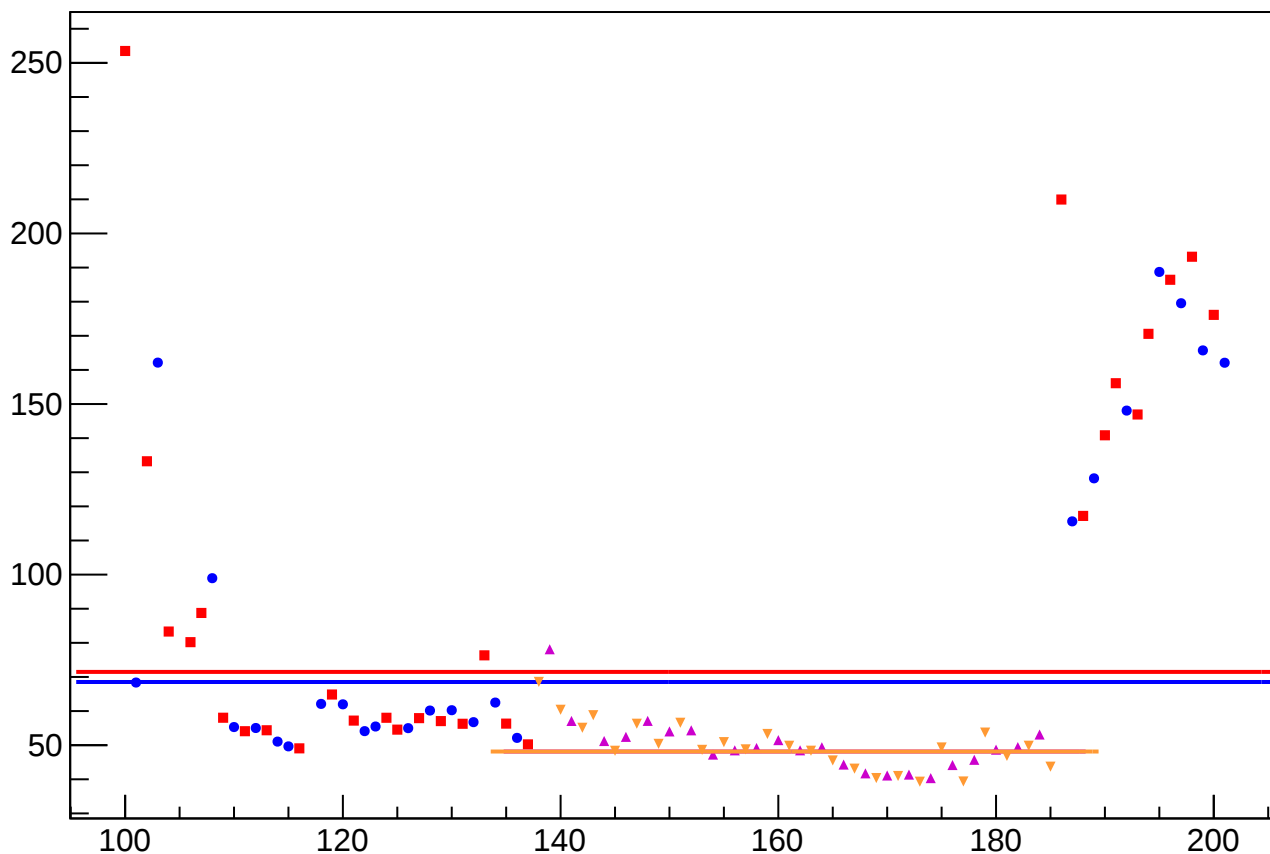
Right: 52.475 ± 15.896 χ^2/NDF : 61.2/51

In: 0.506 ± 10.359 χ^2/NDF : 63.6/46

Out: -4.183 ± 10.110 χ^2/NDF : 77.2/52

All: -1.896 ± 7.235 χ^2/NDF : 140.8/99

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 68.524 $\pm$ 0.016 χ^2 /NDF: 4054012.6/23

Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF: 655250.3/24

Right Out: 71.480 $\pm$ 0.016 χ^2 /NDF: 4740055.1/27

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

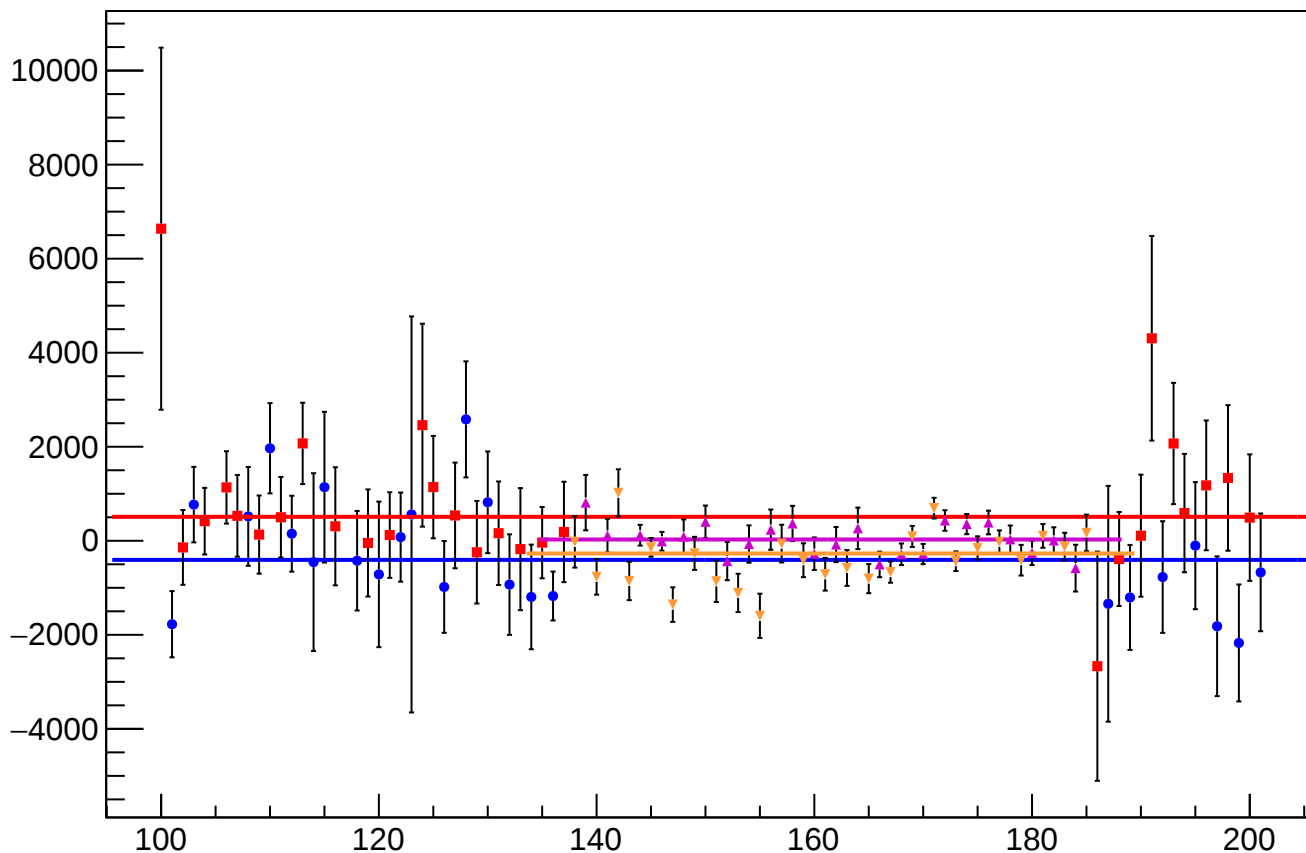
Right: 70.023 $\pm$ 0.011 χ^2 /NDF: 8811361.0/51

In: 52.406 $\pm$ 0.007 χ^2 /NDF: 5910802.7/46

Out: 52.929 $\pm$ 0.007 χ^2 /NDF: 7133387.1/52

All: 52.674 $\pm$ 0.005 χ^2 /NDF: 13046801.3/99

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -406.093+/-212.494 χ^2/NDF : 28.8/23

Left Out: -270.214+/-60.177 χ^2/NDF : 70.1/24

Right Out: 509.629+/-200.615 χ^2/NDF : 18.0/27

Left In: 27.271+/-60.430 χ^2/NDF : 25.1/22

Left: -122.095+/-42.641 χ^2/NDF : 107.3/47

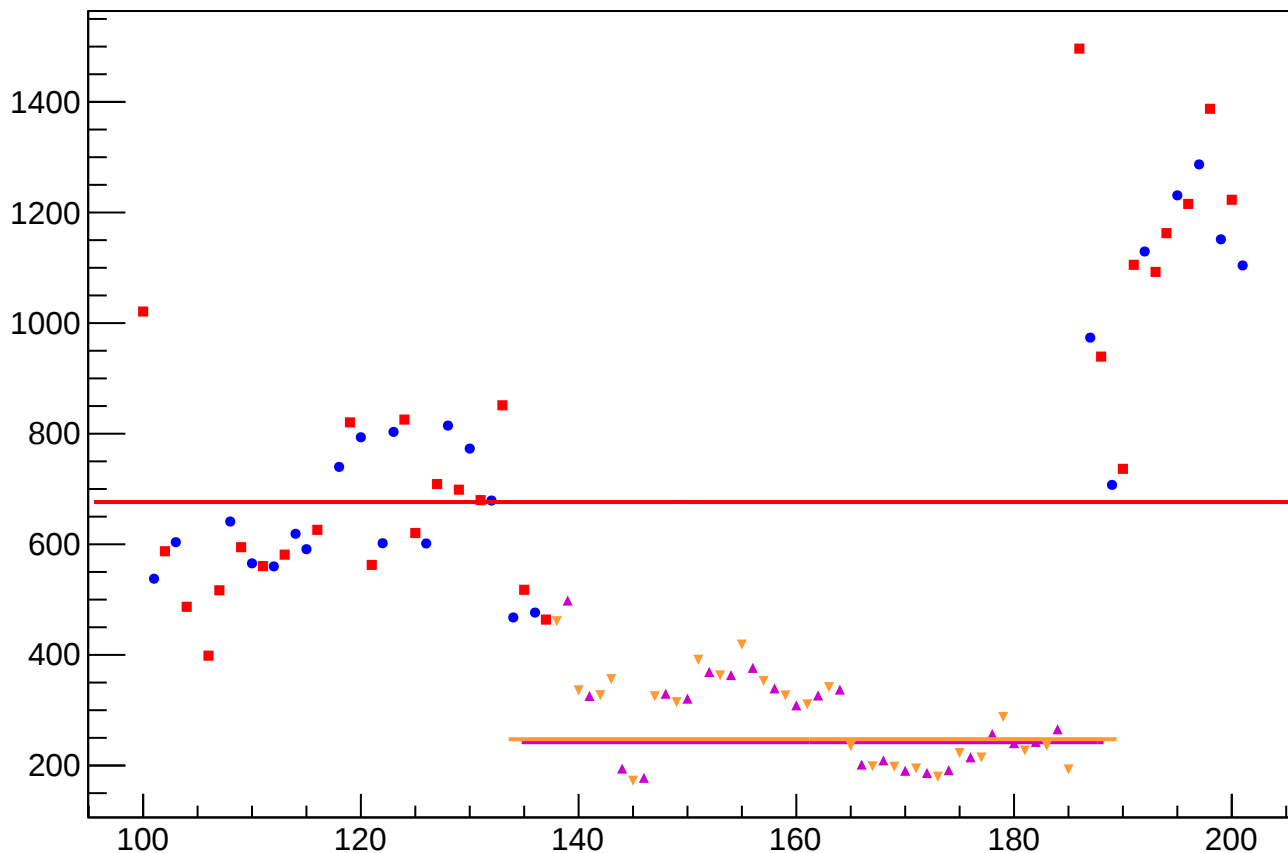
Right: 78.077+/-145.875 χ^2/NDF : 56.6/51

In: -5.155+/-58.125 χ^2/NDF : 57.7/46

Out: -205.837+/-57.640 χ^2/NDF : 102.0/52

All: -106.337+/-40.928 χ^2/NDF : 165.7/99

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 676.418+/-0.150 χ^2/NDF : 2144215.2/23

Left Out: 247.570+/-0.043 χ^2/NDF : 2780931.0/24

Right Out: 676.530+/-0.142 χ^2/NDF : 2890323.4/27

Left In: 242.117+/-0.043 χ^2/NDF : 2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47

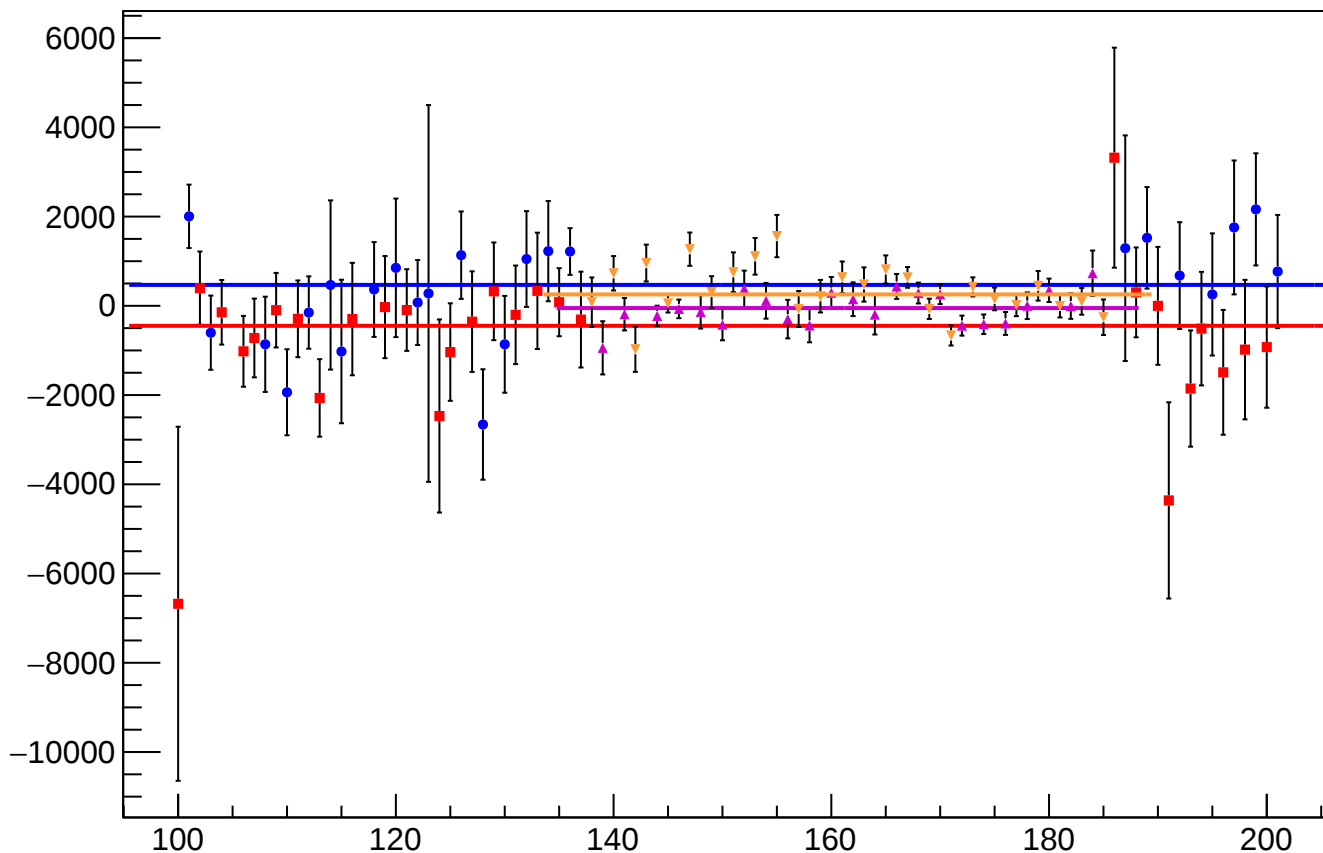
Right: 676.477+/-0.103 χ^2/NDF : 5034538.8/51

In: 274.613+/-0.041 χ^2/NDF : 12339692.5/46

Out: 282.981+/-0.041 χ^2/NDF : 14060376.1/52

All: 278.832+/-0.029 χ^2/NDF : 26420970.3/99

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 469.120 $\pm$ 214.444 χ^2 /NDF: 30.6/23

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF:63.6/24

Right Out: -447.809 $\pm$ 202.909 χ^2 /NDF: 19.0/27

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

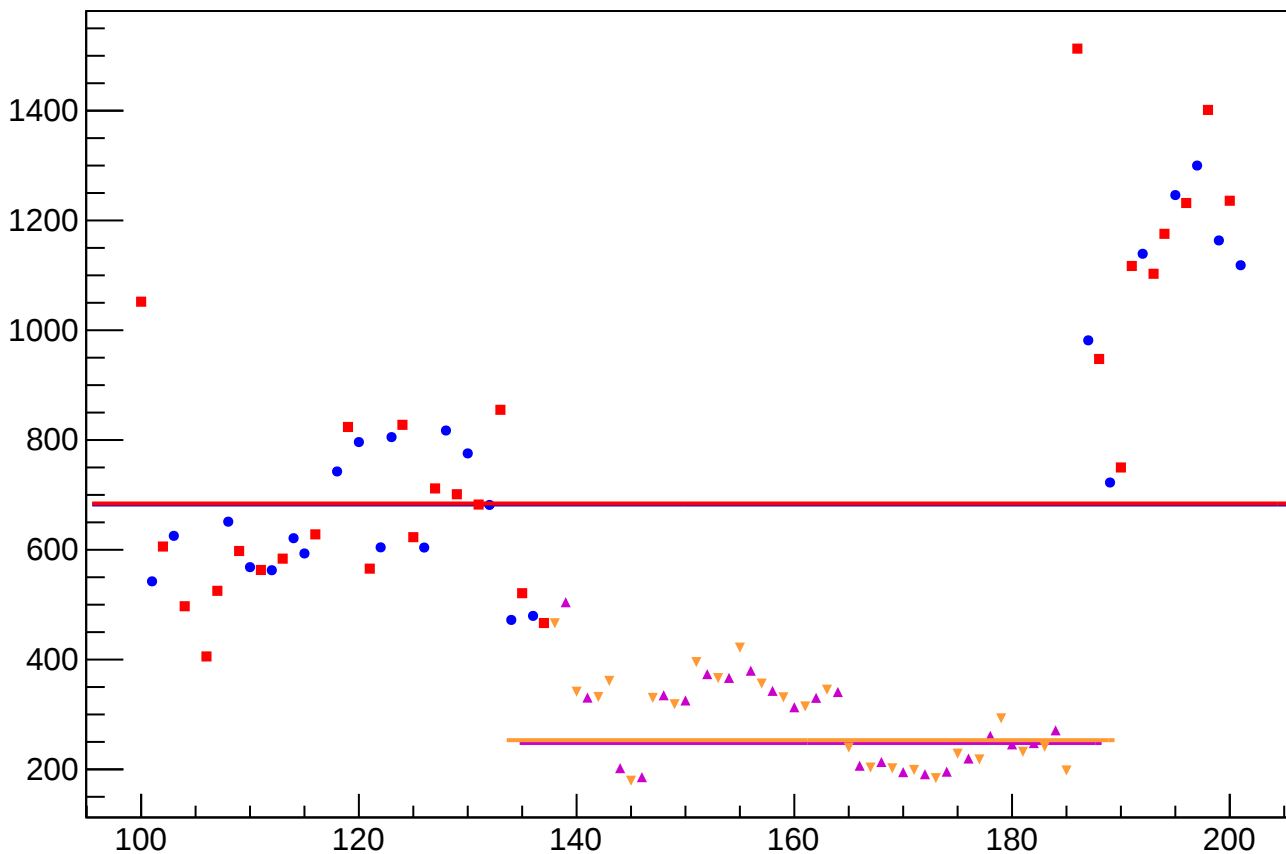
Right: -14.668 $\pm$ 147.388 χ^2 /NDF: 59.2/51

In: -10.060 $\pm$ 59.367 χ^2 /NDF:63.5/46

Out: 196.924 $\pm$ 58.784 χ^2 /NDF:93.6/52

All: 94.452 $\pm$ 41.771 χ^2 /NDF: 163.3/99

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 682.566 $\pm$ 0.152 χ^2 /NDF: 2151898.0/23

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF: 2665975.8/24

Right Out: 684.372 $\pm$ 0.143 χ^2 /NDF: 2866638.5/27

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

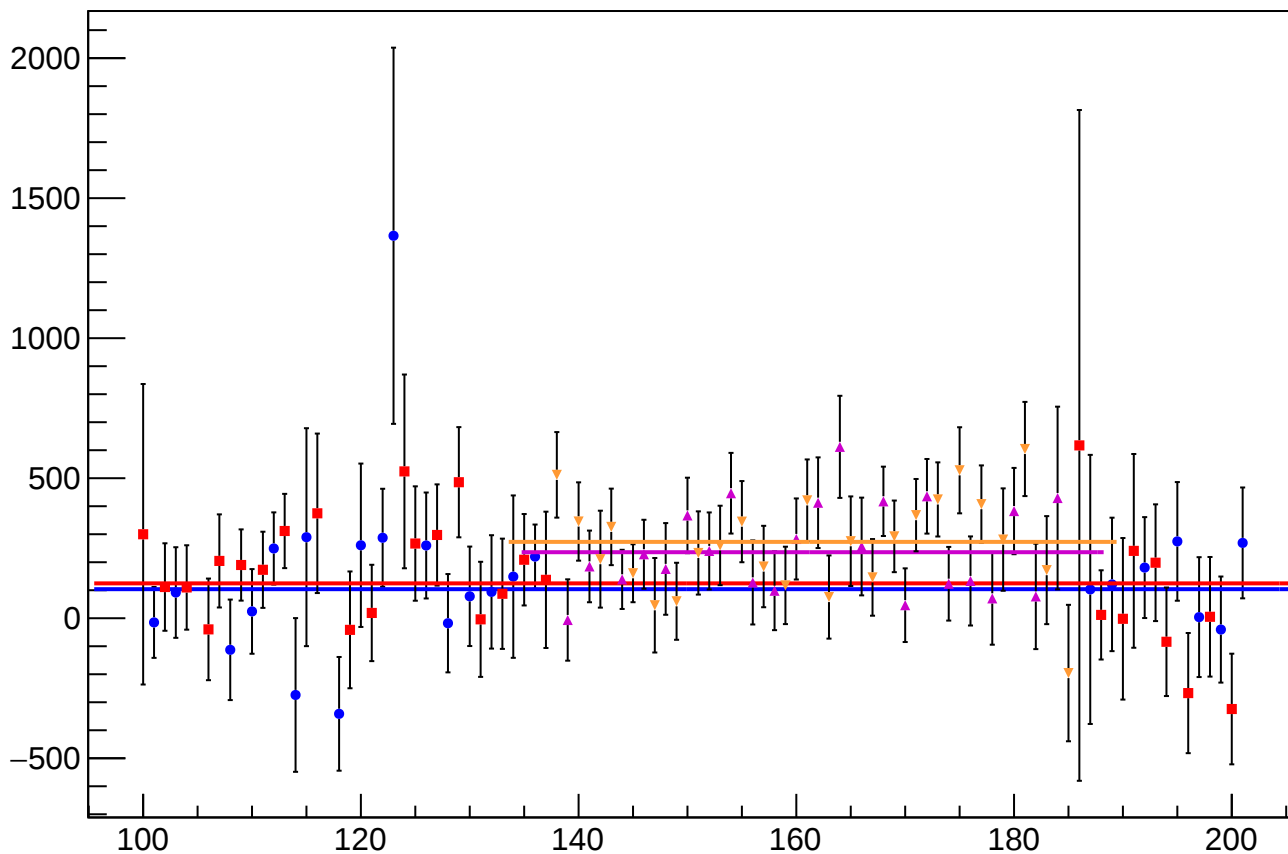
Right: 683.519 $\pm$ 0.104 χ^2 /NDF: 5018611.3/51

In: 281.368 $\pm$ 0.042 χ^2 /NDF: 12076543.6/46

Out: 289.331 $\pm$ 0.042 χ^2 /NDF: 13807889.9/52

All: 285.389 $\pm$ 0.030 χ^2 /NDF: 25902600.0/99

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 103.773 $\pm$ 38.313 χ^2 /NDF: 20.3/23

Left Out: 272.684 $\pm$ 29.221 χ^2 /NDF:27.4/24

Right Out: 124.491 $\pm$ 36.060 χ^2 /NDF: 23.2/27

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

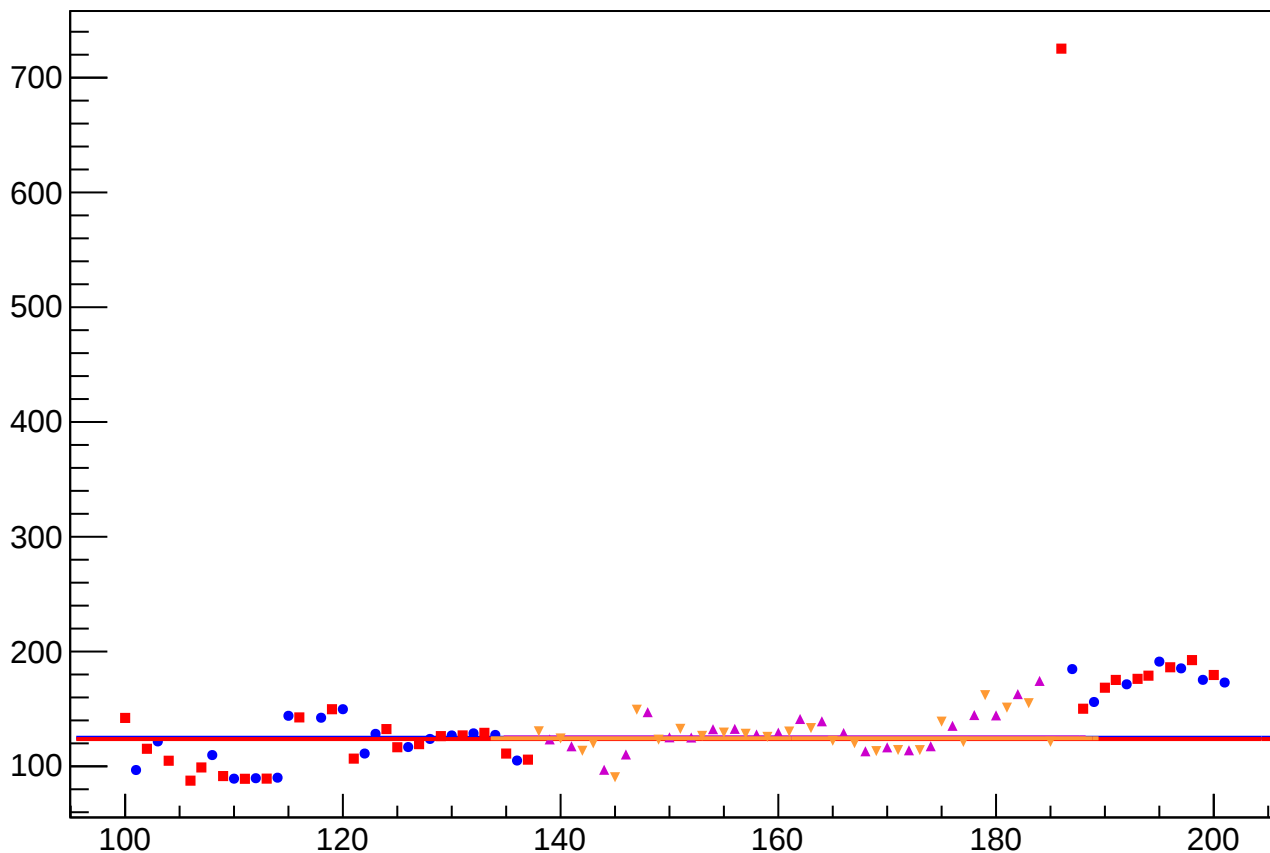
Right: 114.759 $\pm$ 26.259 χ^2 /NDF: 43.7/51

In: 185.140 $\pm$ 23.733 χ^2 /NDF:52.2/46

Out: 213.944 $\pm$ 22.703 χ^2 /NDF:60.8/52

All: 200.180 $\pm$ 16.405 χ^2 /NDF: 113.8/99

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 124.892 $\pm$ 0.027 χ^2 /NDF: 1332350.5/23

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 123.739 $\pm$ 0.025 χ^2 /NDF: 2124948.6/27

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

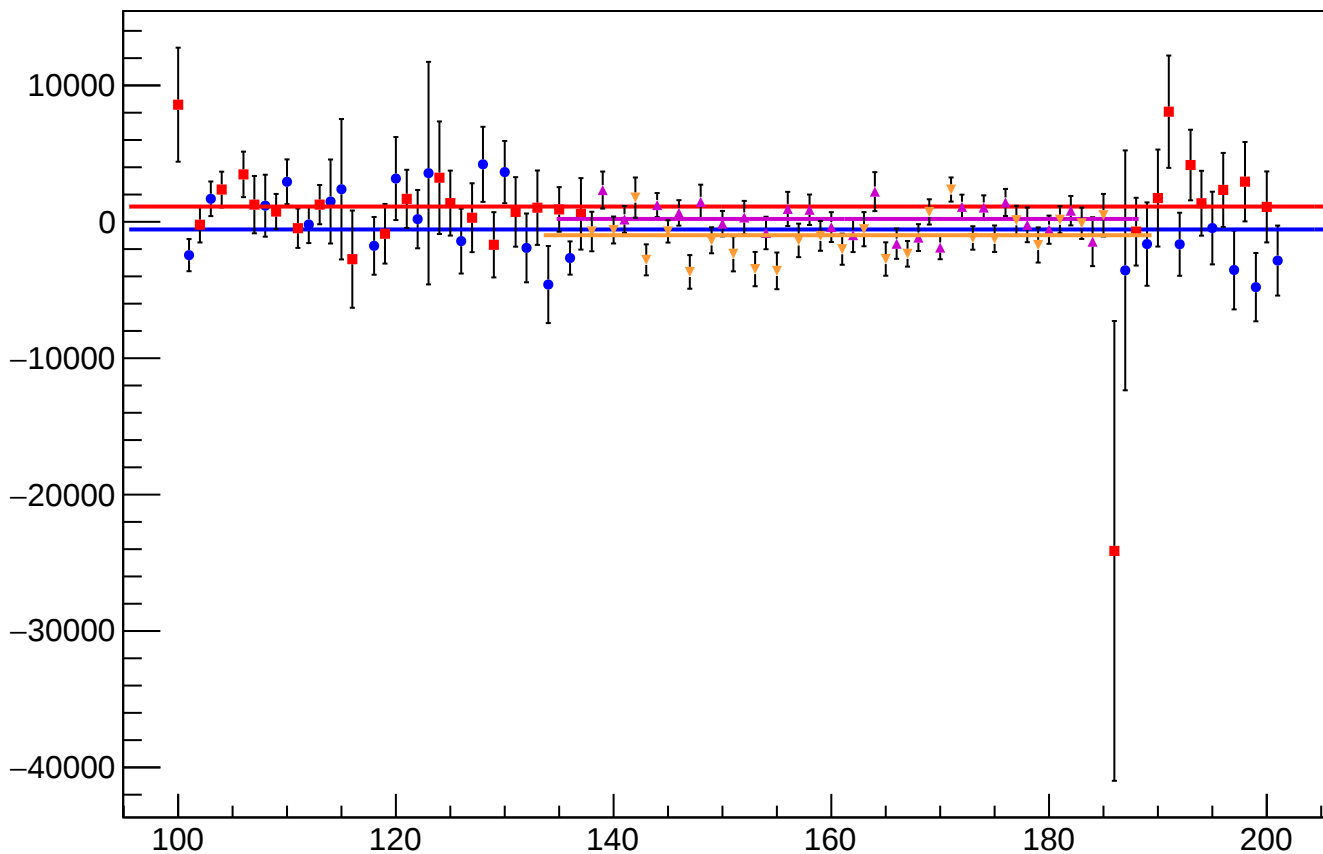
Right: 124.281 $\pm$ 0.019 χ^2 /NDF: 3458260.5/51

In: 125.085 $\pm$ 0.017 χ^2 /NDF: 1833820.7/46

Out: 124.155 $\pm$ 0.016 χ^2 /NDF: 2665122.1/52

All: 124.600 $\pm$ 0.012 χ^2 /NDF: 4500545.9/99

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -559.582+/-426.828 χ^2/NDF : 30.8/23

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 1119.648+/-398.515 χ^2/NDF : 20.0/27

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

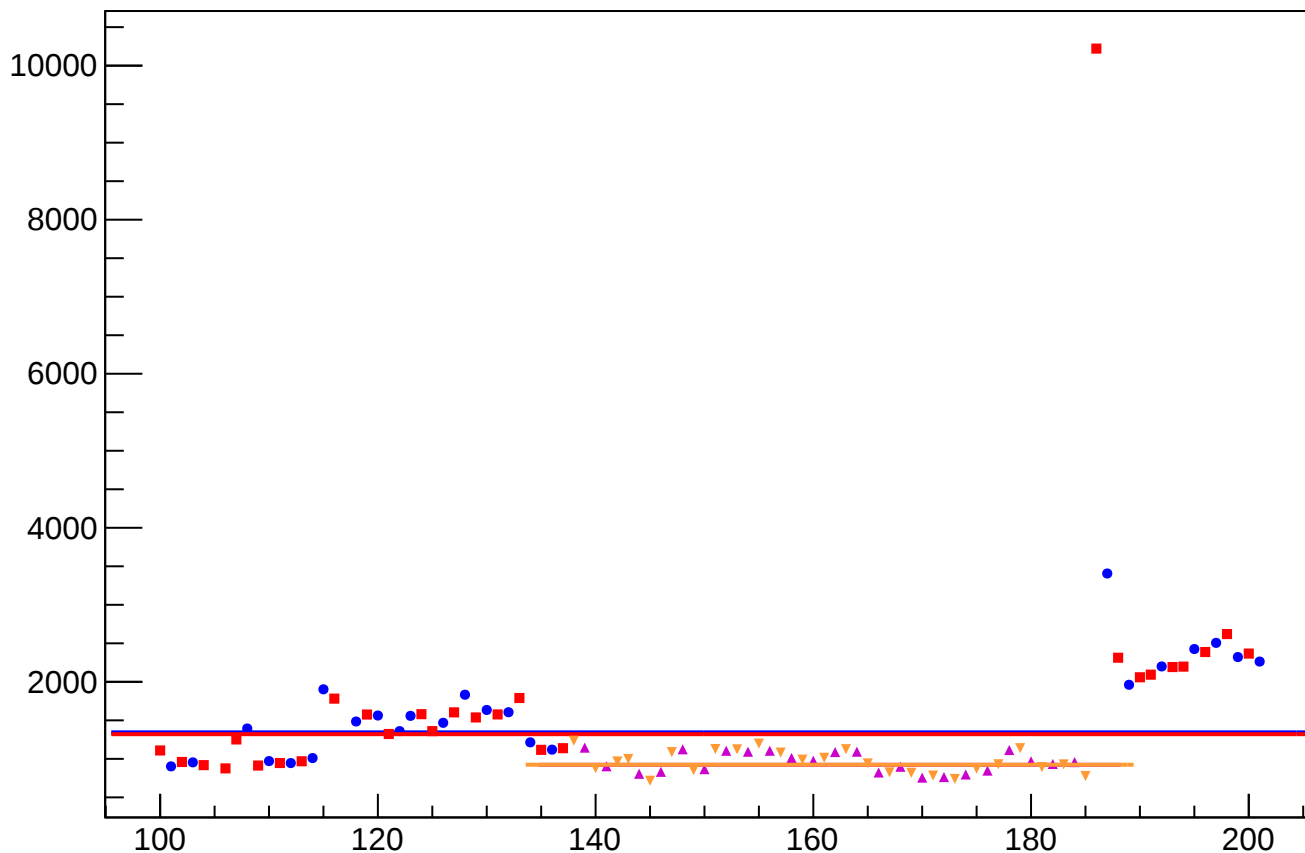
Right: 337.569+/-291.288 χ^2/NDF : 59.1/51

In: 45.748+/-197.856 χ^2/NDF : 59.1/46

Out: -498.520+/-191.269 χ^2/NDF : 88.7/52

All: -235.598+/-137.517 χ^2/NDF : 151.6/99

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1343.993+/-0.302 χ^2/NDF : 2687886.3/23

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1320.461+/-0.282 χ^2/NDF : 3740806.8/27

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

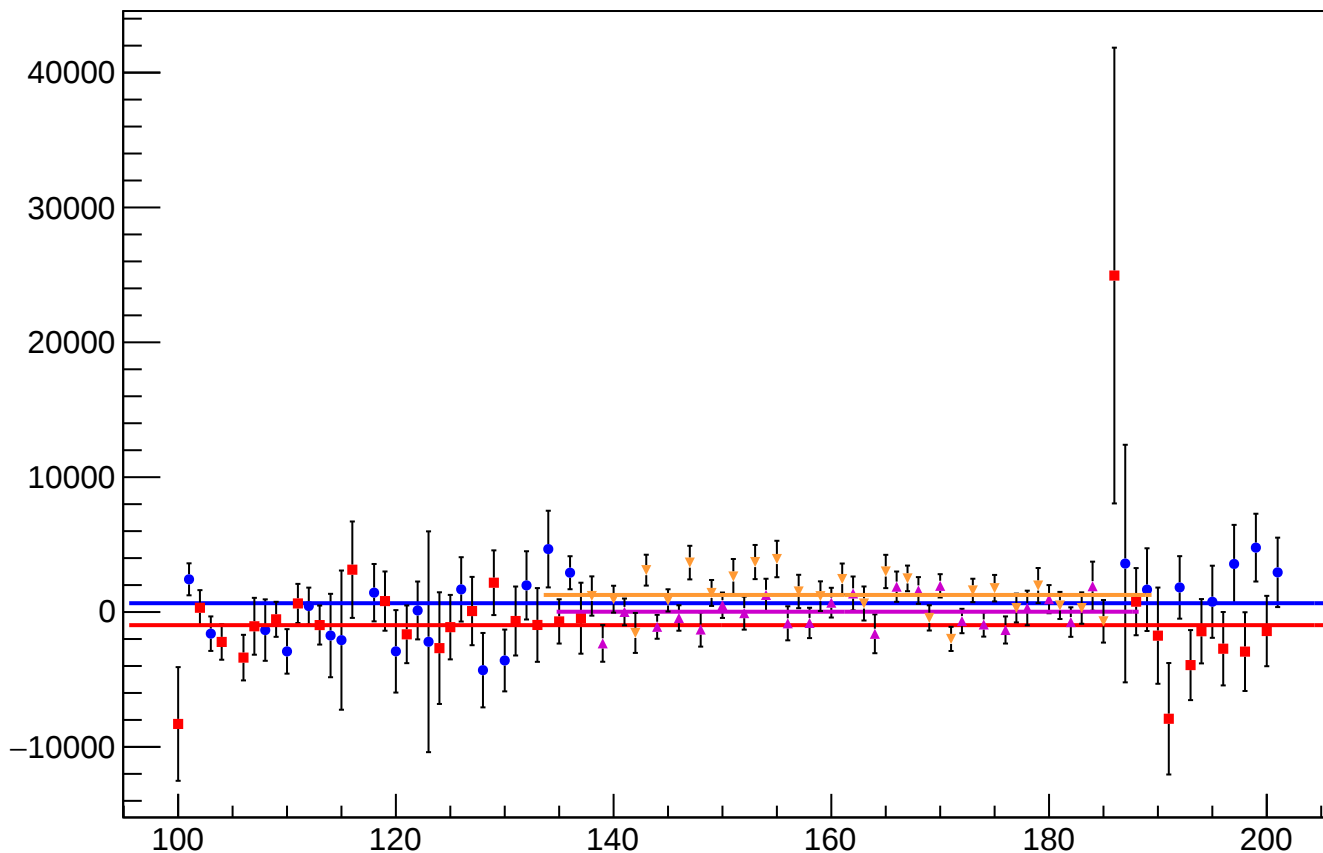
Right: 1331.421+/-0.206 χ^2/NDF : 6431940.8/51

In: 1012.870+/-0.140 χ^2/NDF : 4855685.7/46

Out: 1015.008+/-0.135 χ^2/NDF : 6110210.3/52

All: 1013.975+/-0.097 χ^2/NDF : 10966016.8/99

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 655.149+/-428.803 χ^2/NDF : 30.9/23

Left Out: 1267.344+/-220.133 χ^2/NDF :44.9/24

Right Out: -972.232+/-400.541 χ^2/NDF : 20.4/27

Left In: 23.478+/-225.490 χ^2/NDF :27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

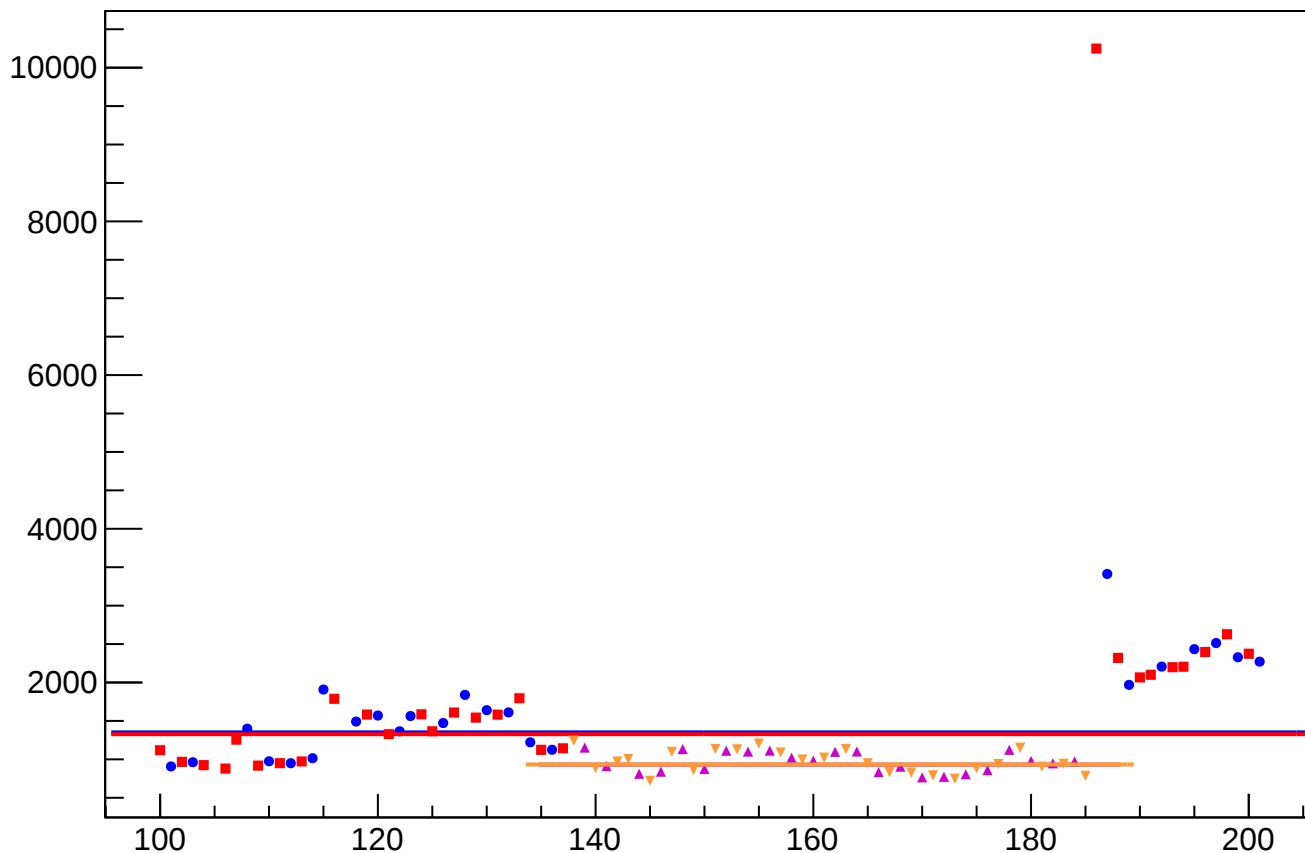
Right: -213.934+/-292.707 χ^2/NDF : 59.0/51

In: 160.314+/-199.578 χ^2/NDF :59.8/46

Out: 747.807+/-192.918 χ^2/NDF :89.4/52

All: 464.027+/-138.708 χ^2/NDF : 153.6/99

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1350.751+/-0.303 χ^2/NDF : 2673248.3/23

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1327.512+/-0.283 χ^2/NDF : 3722156.5/27

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

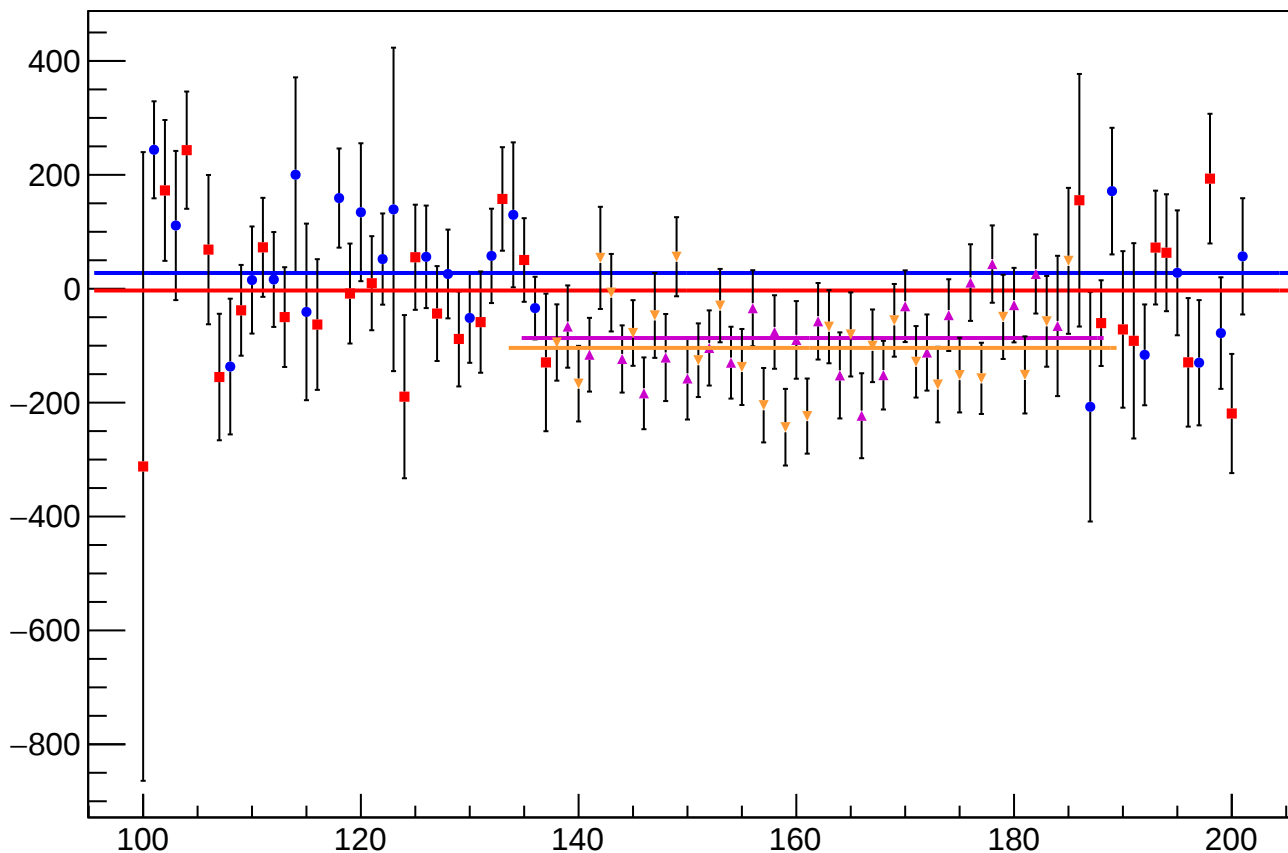
Right: 1338.341+/-0.207 χ^2/NDF : 6398541.6/51

In: 1022.315+/-0.141 χ^2/NDF : 4795462.4/46

Out: 1024.338+/-0.136 χ^2/NDF : 6043891.0/52

All: 1023.361+/-0.098 χ^2/NDF : 10839459.6/99

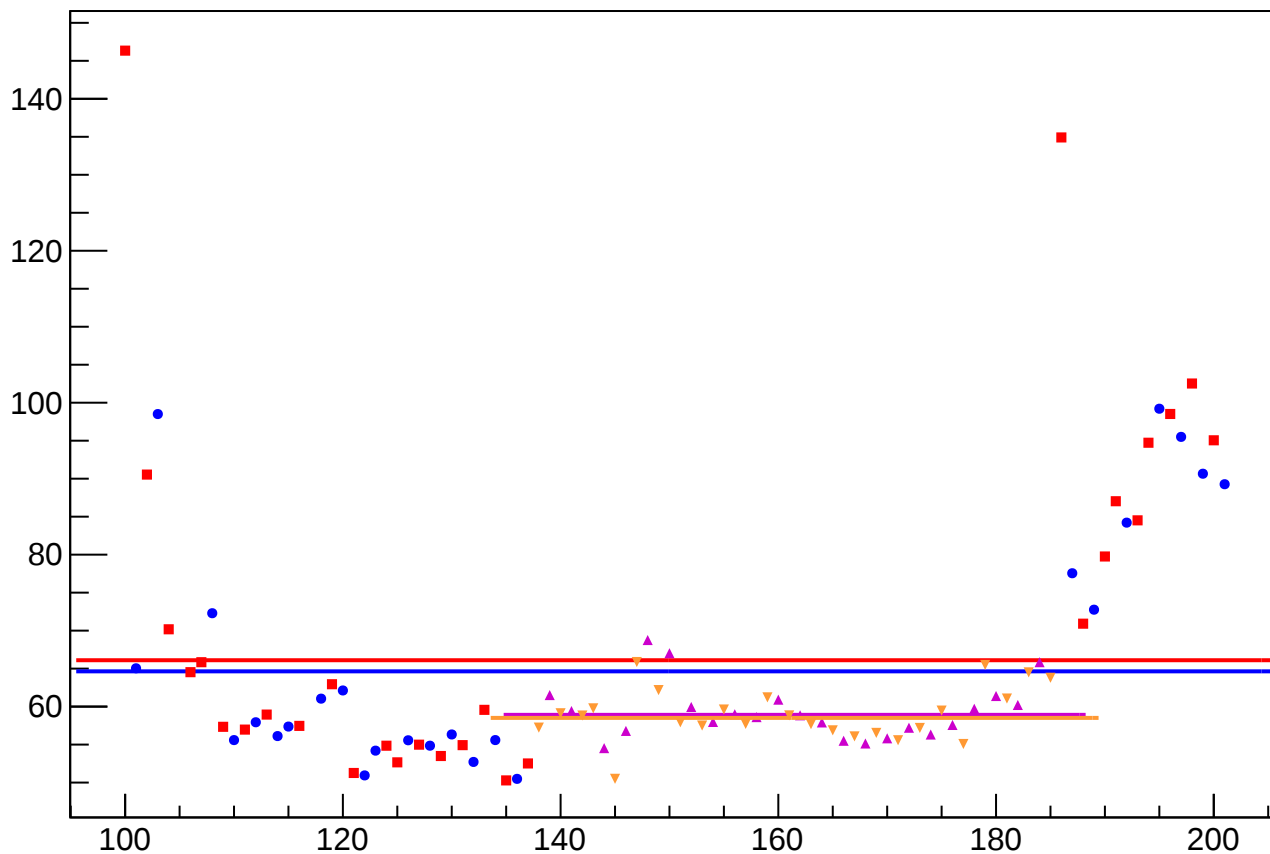
reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 27.680 ± 19.786 $\chi^2/\text{NDF}: 25.4/23$
 Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$
 Right Out: -3.117 ± 19.048 $\chi^2/\text{NDF}: 31.4/27$
 Left In: -86.542 ± 14.120 $\chi^2/\text{NDF}: 21.4/22$

Left: -95.520 ± 9.811 $\chi^2/\text{NDF}: 52.1/47$
 Right: 11.697 ± 13.722 $\chi^2/\text{NDF}: 58.0/51$
 In: -47.999 ± 11.493 $\chi^2/\text{NDF}: 68.9/46$
 Out: -69.730 ± 11.091 $\chi^2/\text{NDF}: 79.8/52$
 All: -59.252 ± 7.981 $\chi^2/\text{NDF}: 150.5/99$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.640 $\pm$ 0.014 χ^2 /NDF: 1236622.6/23

Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF:123221.6/24

Right Out: 66.103 $\pm$ 0.013 χ^2 /NDF: 1554290.9/27

Left In: 58.913 $\pm$ 0.010 χ^2 /NDF:109968.0/22

Left: 58.706 $\pm$ 0.007 χ^2 /NDF: 234021.7/47

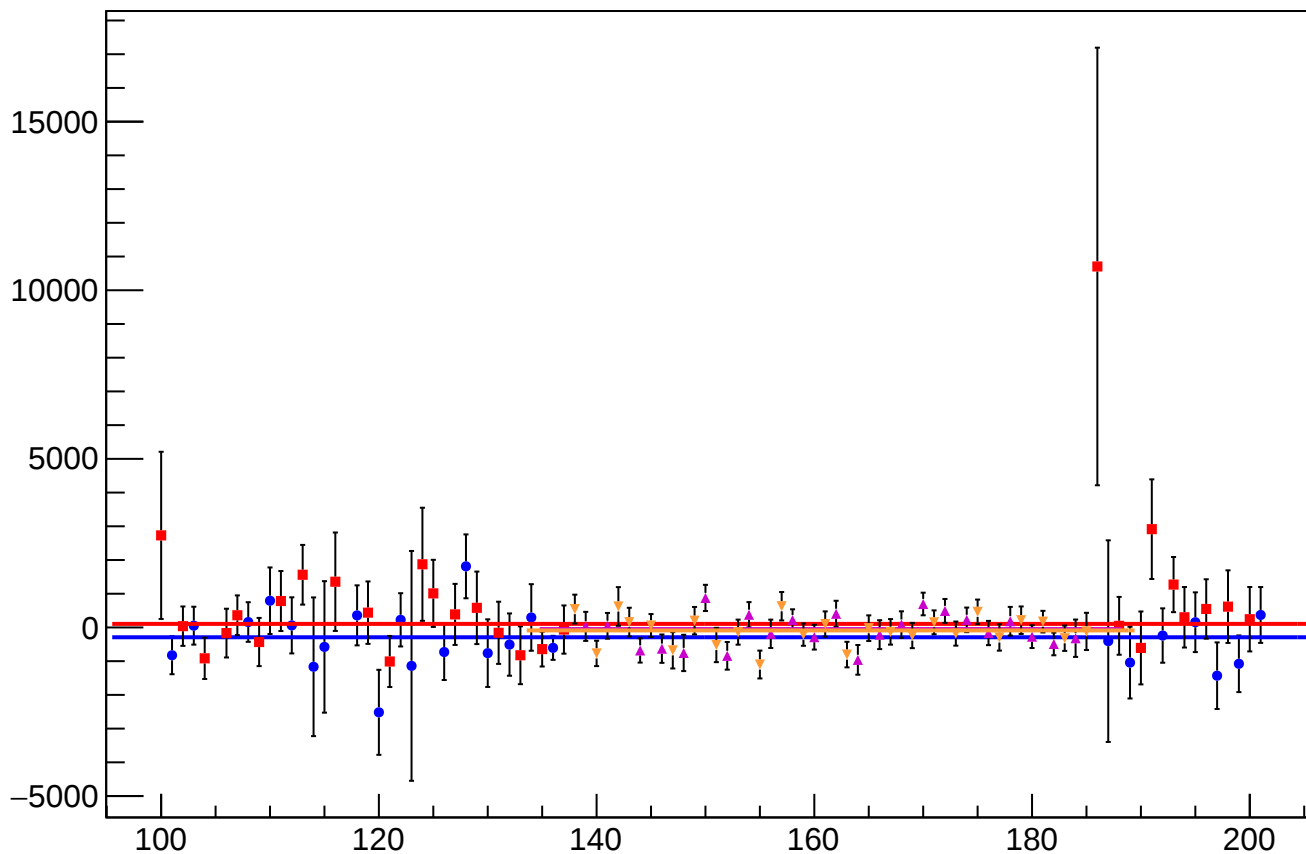
Right: 65.400 $\pm$ 0.010 χ^2 /NDF: 2796588.8/51

In: 60.846 $\pm$ 0.008 χ^2 /NDF:1457611.5/46

Out: 61.086 $\pm$ 0.008 χ^2 /NDF:1887425.2/52

All: 60.970 $\pm$ 0.006 χ^2 /NDF: 3345490.0/99

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -290.988 ± 164.144 χ^2/NDF : 17.8/23

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 105.635 ± 160.498 χ^2/NDF : 26.1/27

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

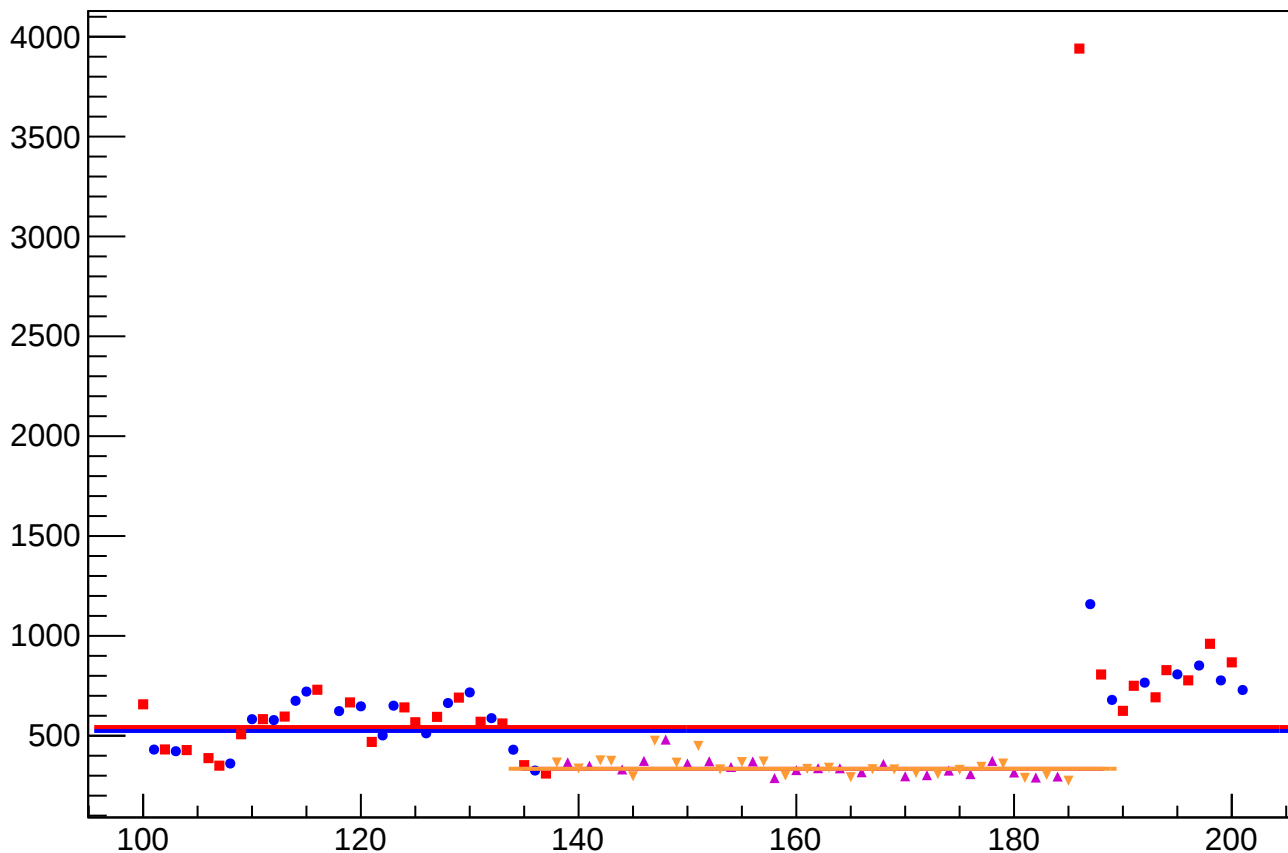
Right: -88.222 ± 114.757 χ^2/NDF : 46.9/51

In: -95.754 ± 72.311 χ^2/NDF : 54.9/46

Out: -50.140 ± 70.558 χ^2/NDF : 55.0/52

All: -72.388 ± 50.500 χ^2/NDF : 110.1/99

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 524.034+/-0.116 χ^2/NDF : 2175579.3/23

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 543.567+/-0.113 χ^2/NDF : 2826833.2/27

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

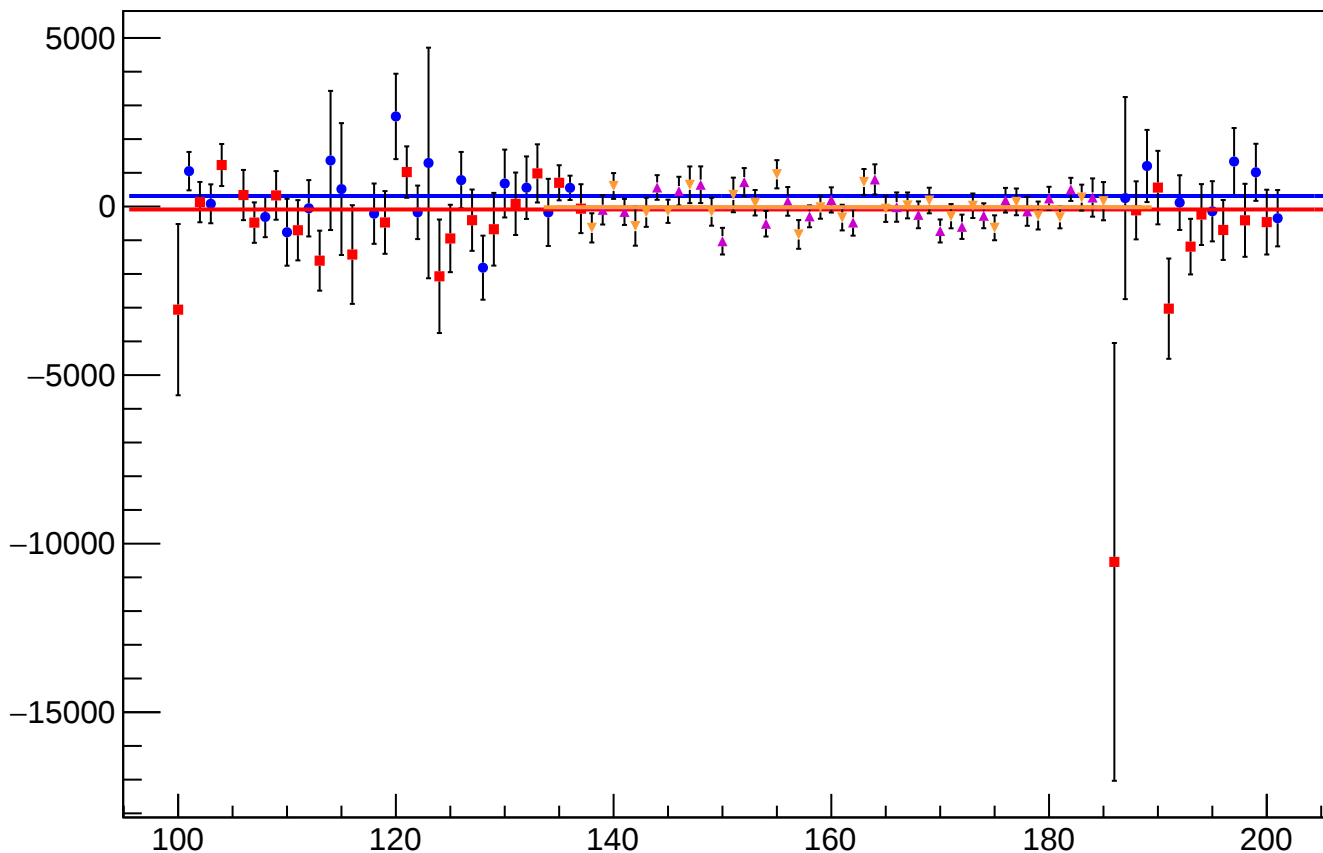
Right: 534.020+/-0.081 χ^2/NDF : 5016891.5/51

In: 370.998+/-0.051 χ^2/NDF : 4729871.2/46

Out: 375.106+/-0.050 χ^2/NDF : 6049446.8/52

All: 373.102+/-0.036 χ^2/NDF : 10782625.6/99

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 312.535 ± 165.920 $\chi^2/\text{NDF}: 18.4/23$

Left Out: -20.895 ± 79.812 $\chi^2/\text{NDF}: 27.2/24$

Right Out: -86.751 ± 162.280 $\chi^2/\text{NDF}: 29.4/27$

Left In: -31.800 ± 81.839 $\chi^2/\text{NDF}: 34.0/22$

Left: -26.211 ± 57.139 $\chi^2/\text{NDF}: 61.3/47$

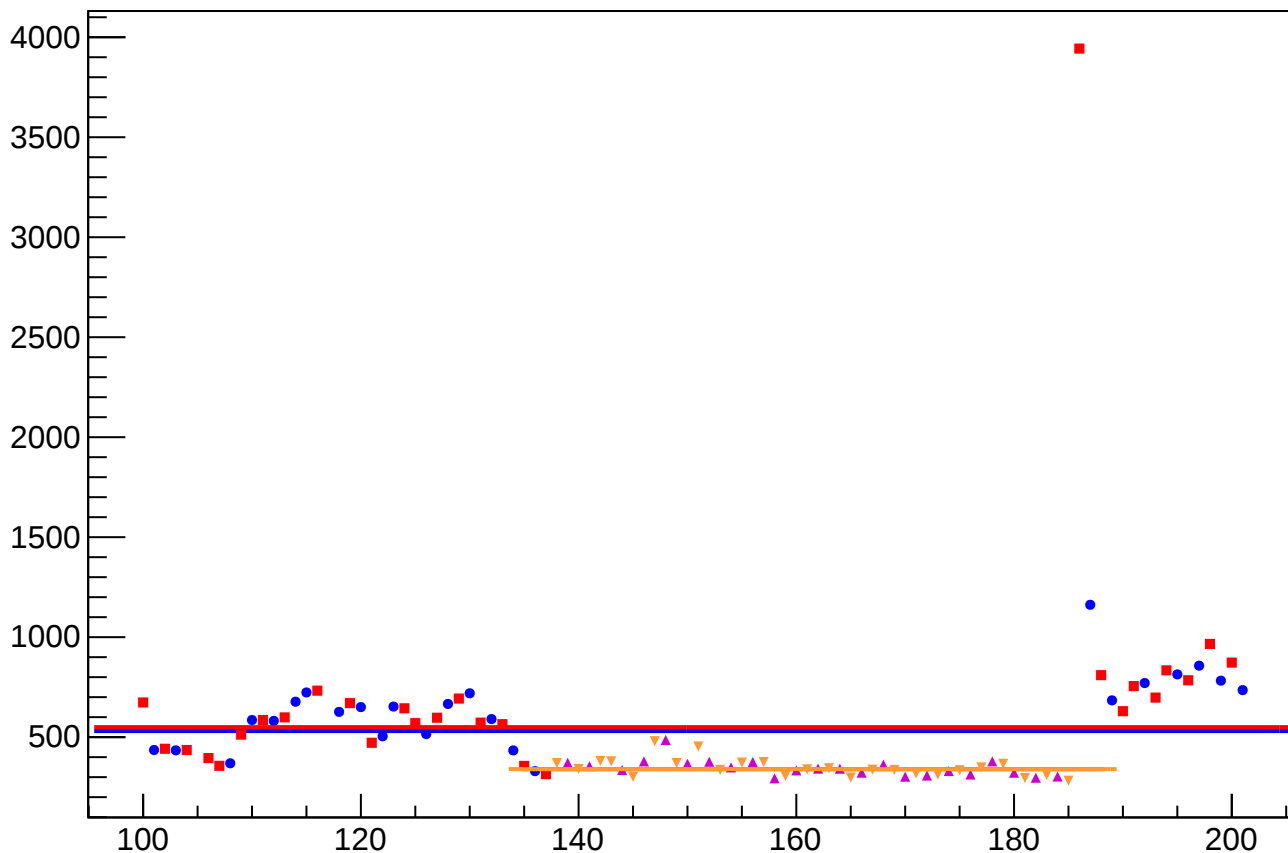
Right: 108.465 ± 116.015 $\chi^2/\text{NDF}: 50.8/51$

In: 35.581 ± 73.397 $\chi^2/\text{NDF}: 55.9/46$

Out: -33.722 ± 71.619 $\chi^2/\text{NDF}: 56.7/52$

All: 0.080 ± 51.259 $\chi^2/\text{NDF}: 113.1/99$

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 530.454 $\pm$ 0.117 χ^2 /NDF: 2120492.6/23

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 550.233 $\pm$ 0.115 χ^2 /NDF: 2766528.7/27

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

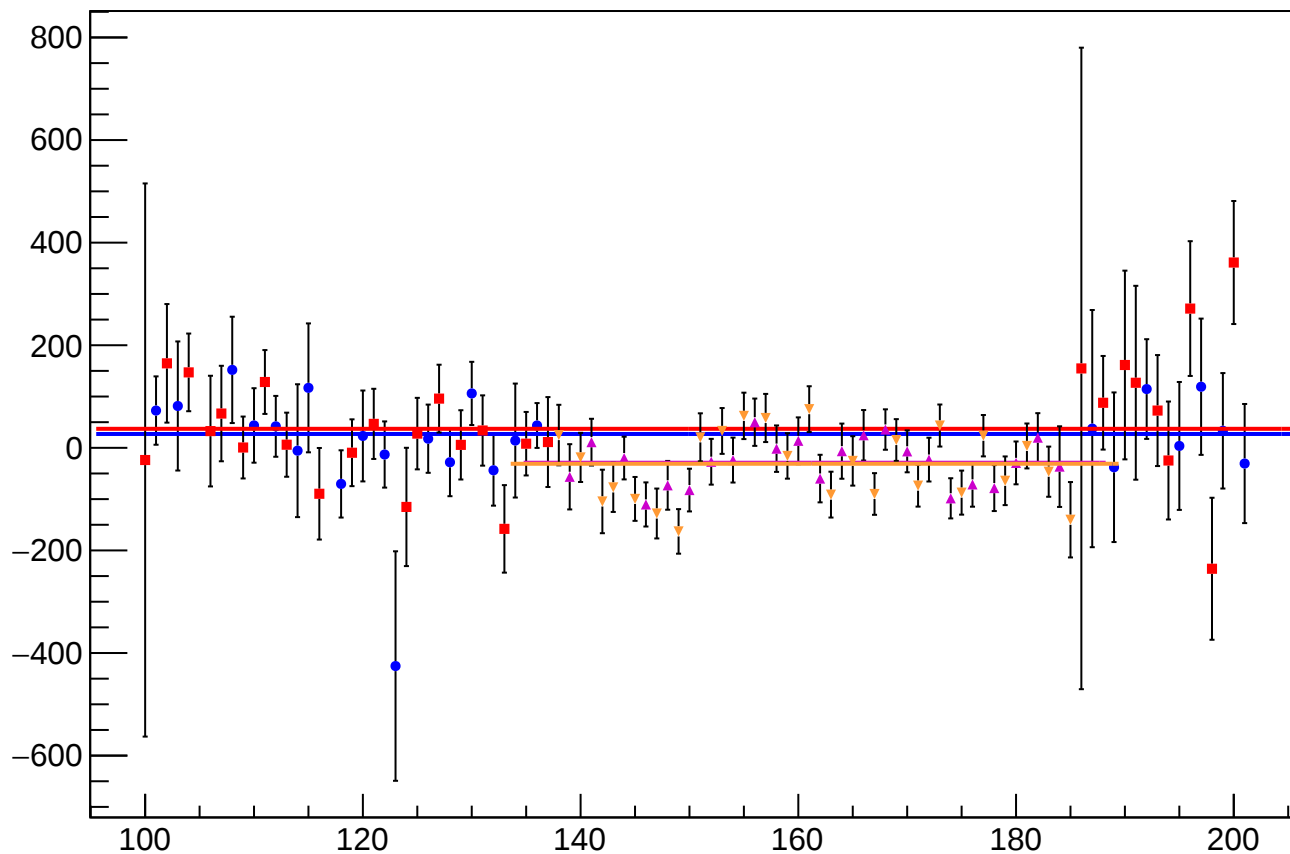
Right: 540.563 $\pm$ 0.082 χ^2 /NDF: 4901547.3/51

In: 376.964 $\pm$ 0.052 χ^2 /NDF: 4628282.4/46

Out: 381.139 $\pm$ 0.051 χ^2 /NDF: 5932141.4/52

All: 379.103 $\pm$ 0.036 χ^2 /NDF: 10563738.1/99

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 27.003 ± 16.721 $\chi^2/\text{NDF}: 14.8/23$

Left Out: -31.063 ± 9.170 $\chi^2/\text{NDF}: 52.6/24$

Right Out: 37.079 ± 16.200 $\chi^2/\text{NDF}: 32.9/27$

Left In: -29.055 ± 9.449 $\chi^2/\text{NDF}: 22.4/22$

Left: -30.089 ± 6.581 $\chi^2/\text{NDF}: 75.1/47$

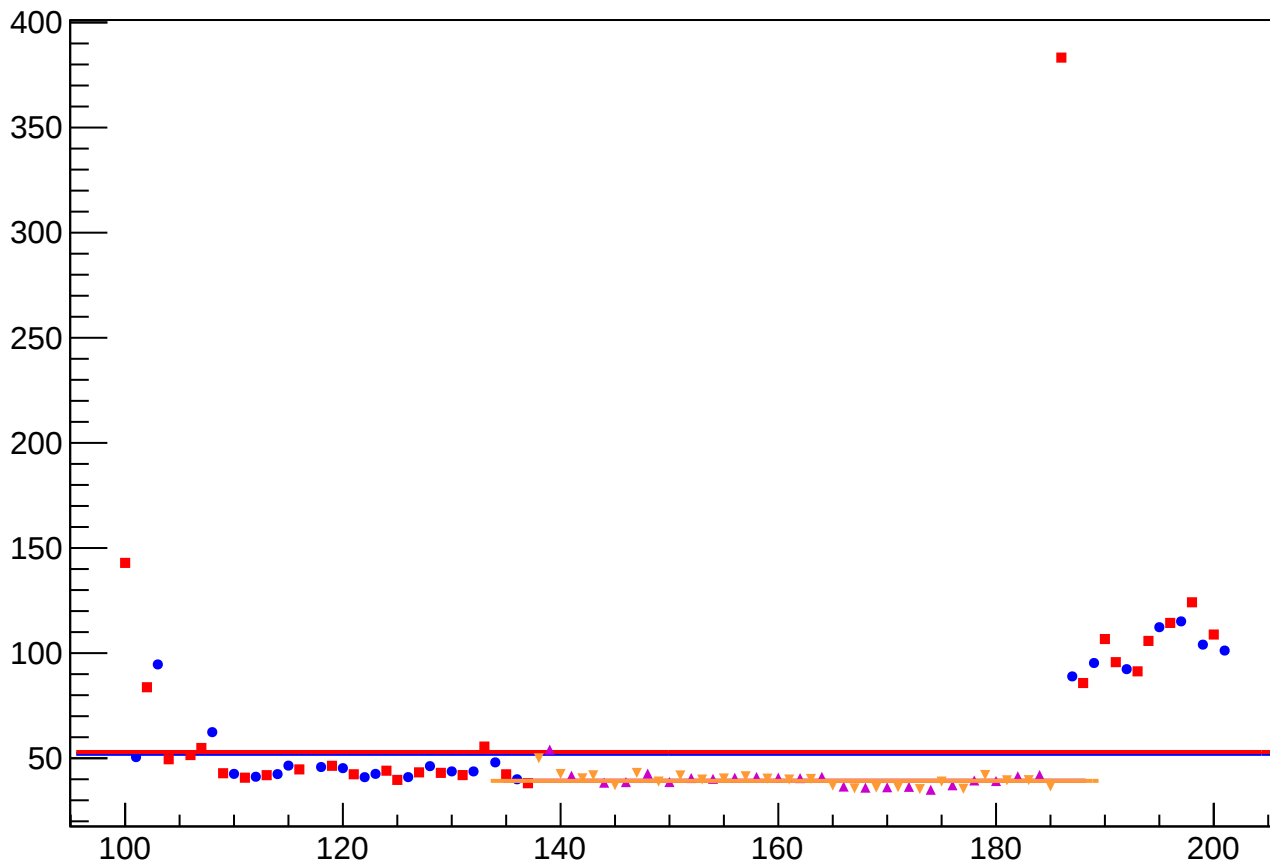
Right: 32.200 ± 11.635 $\chi^2/\text{NDF}: 47.9/51$

In: -15.486 ± 8.227 $\chi^2/\text{NDF}: 45.8/46$

Out: -14.529 ± 7.980 $\chi^2/\text{NDF}: 98.9/52$

All: -14.993 ± 5.728 $\chi^2/\text{NDF}: 144.7/99$

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 52.093+/-0.012 χ^2/NDF : 3023718.7/23

Left Out: 39.235+/-0.006 χ^2/NDF : 201960.7/24

Right Out: 52.975+/-0.011 χ^2/NDF : 3988212.1/27

Left In: 39.338+/-0.007 χ^2/NDF : 215671.3/22

Left: 39.285+/-0.005 χ^2/NDF : 417755.0/47

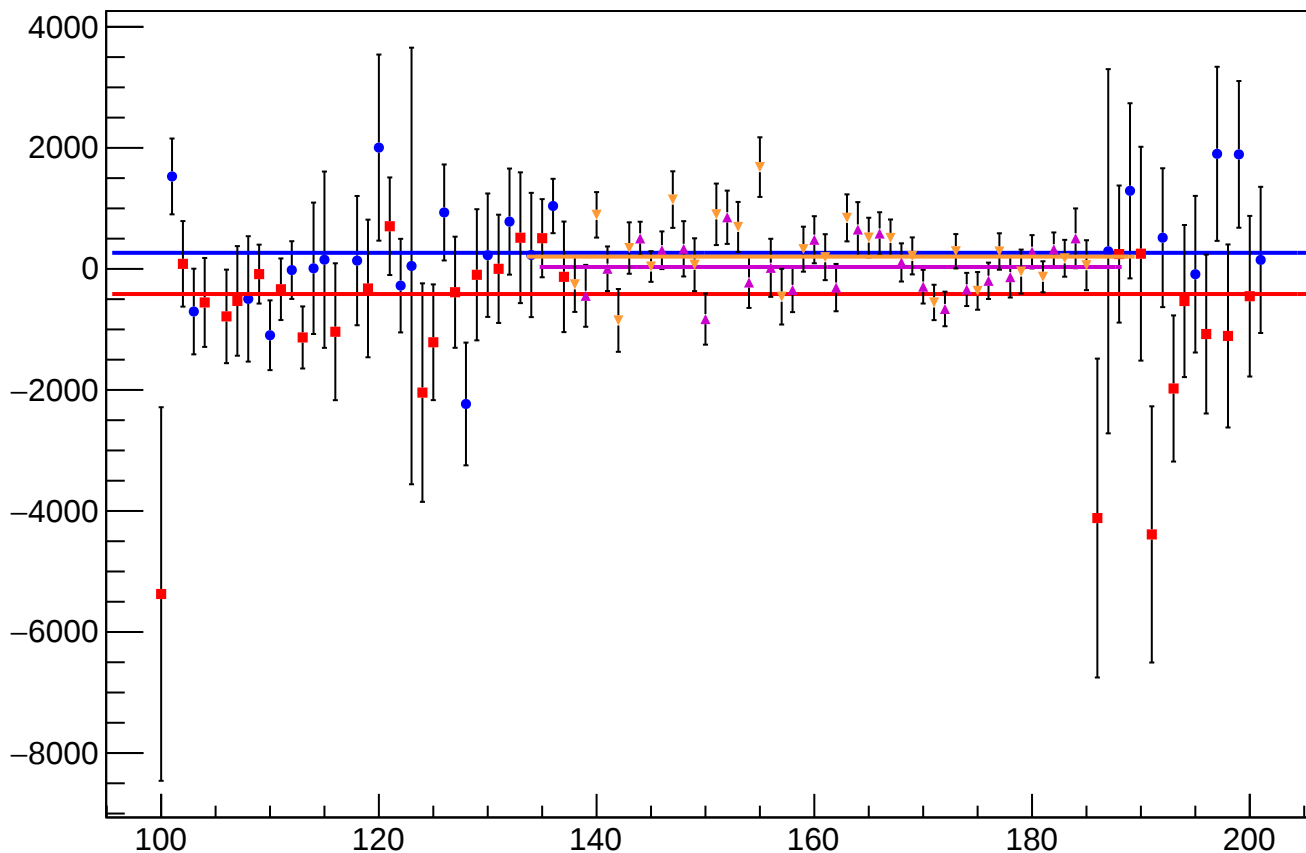
Right: 52.548+/-0.008 χ^2/NDF : 7014801.3/51

In: 42.426+/-0.006 χ^2/NDF : 4121461.3/46

Out: 42.569+/-0.006 χ^2/NDF : 5279790.0/52

All: 42.500+/-0.004 χ^2/NDF : 9401563.3/99

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 265.863 $\pm$ 177.399 χ^2 /NDF: 28.1/23

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -415.132 $\pm$ 168.213 χ^2 /NDF: 20.9/27

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

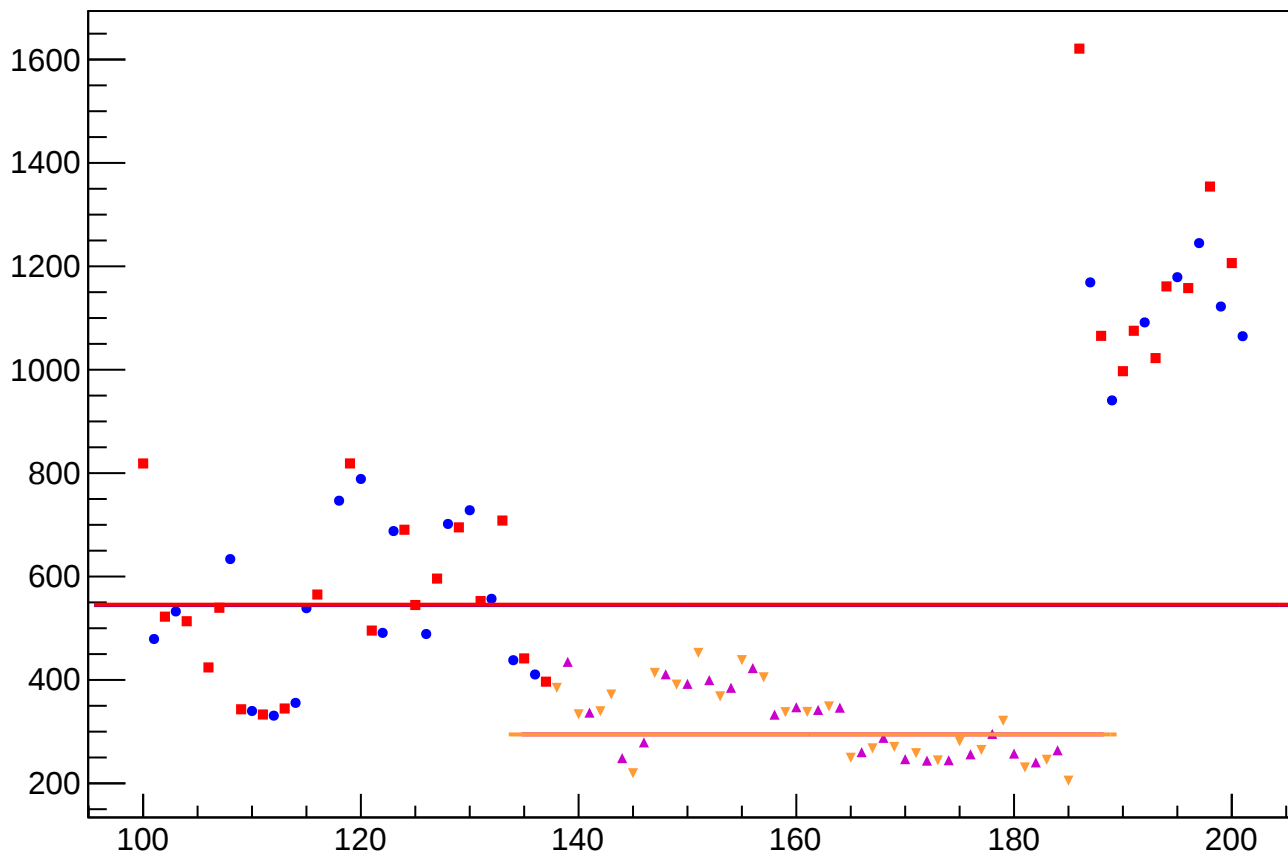
Right: -92.722 $\pm$ 122.063 χ^2 /NDF: 56.7/51

In: 64.766 $\pm$ 66.794 χ^2 /NDF:62.9/46

Out: 110.273 $\pm$ 64.962 χ^2 /NDF:77.1/52

All: 88.152 $\pm$ 46.569 χ^2 /NDF: 140.3/99

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 544.834+/-0.125 χ^2/NDF : 3679100.2/23

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 545.570+/-0.119 χ^2/NDF : 4707769.4/27

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

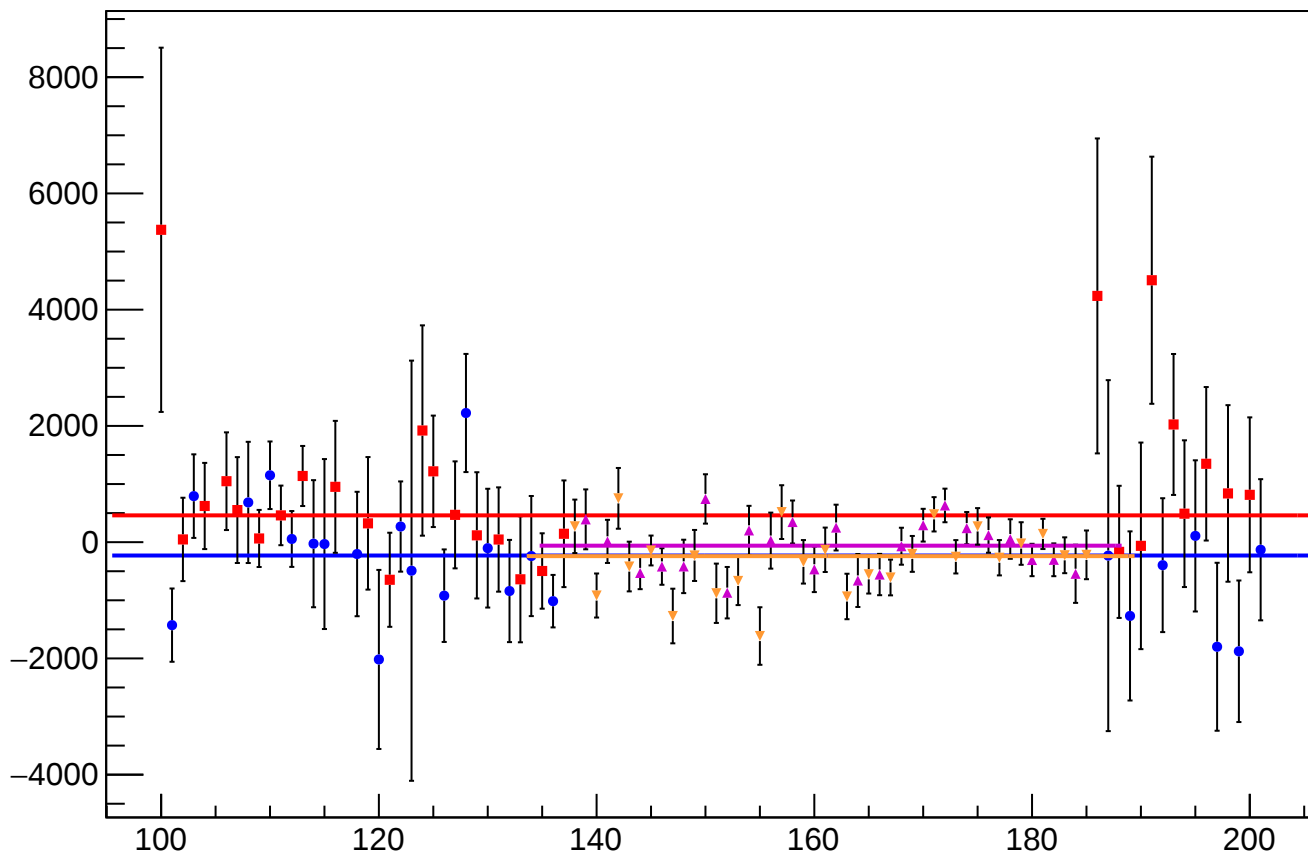
Right: 545.222+/-0.086 χ^2/NDF : 8386887.7/51

In: 330.179+/-0.047 χ^2/NDF : 8388355.8/46

Out: 332.023+/-0.046 χ^2/NDF : 10176522.0/52

All: 331.127+/-0.033 χ^2/NDF : 18565660.9/99

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -229.579 ± 178.466 χ^2/NDF : 27.9/23

Left Out: -240.357 ± 71.100 χ^2/NDF : 42.9/24

Right Out: 461.110 ± 169.866 χ^2/NDF : 20.9/27

Left In: -60.330 ± 72.788 χ^2/NDF : 30.9/22

Left: -152.455 ± 50.862 χ^2/NDF : 77.0/47

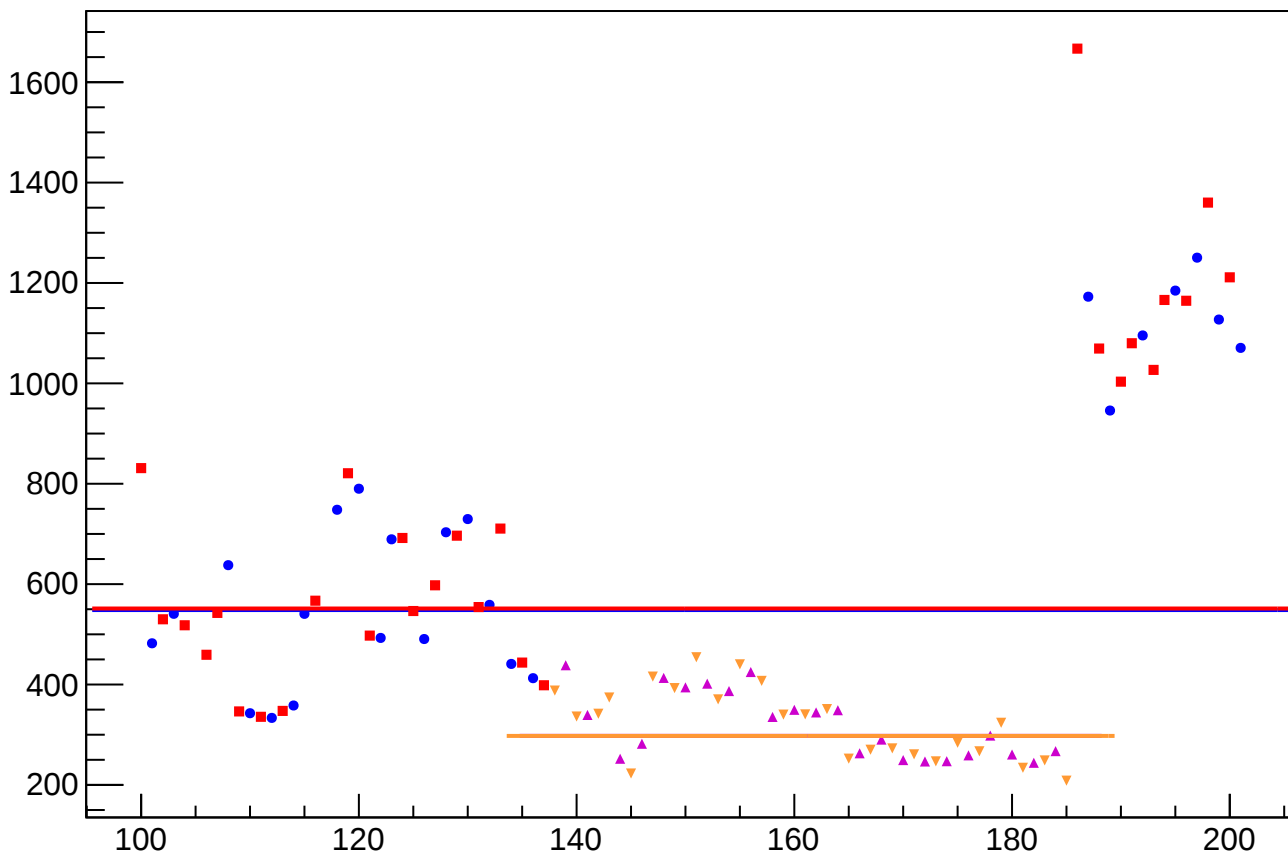
Right: 132.807 ± 123.041 χ^2/NDF : 56.7/51

In: -84.468 ± 67.398 χ^2/NDF : 59.6/46

Out: -135.782 ± 65.587 χ^2/NDF : 78.4/52

All: -110.824 ± 47.004 χ^2/NDF : 138.2/99

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 548.378+/-0.126 χ^2/NDF : 3661600.2/23

Left Out: 297.613+/-0.050 χ^2/NDF : 1637757.8/24

Right Out: 551.437+/-0.120 χ^2/NDF : 4665427.4/27

Left In: 297.699+/-0.051 χ^2/NDF : 1266306.2/22

Left: 297.655+/-0.036 χ^2/NDF : 2904065.4/47

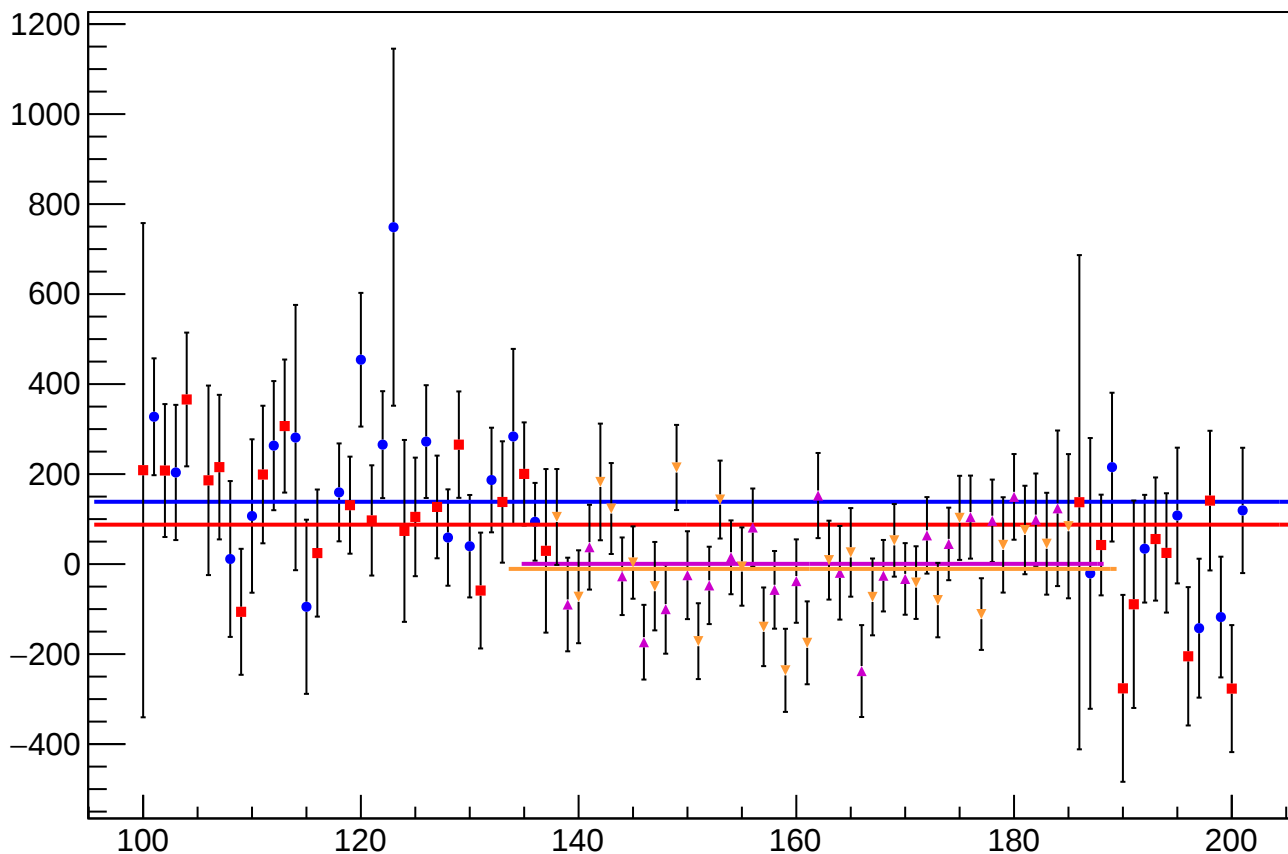
Right: 549.983+/-0.087 χ^2/NDF : 8327336.1/51

In: 333.451+/-0.048 χ^2/NDF : 8311112.2/46

Out: 335.453+/-0.046 χ^2/NDF : 10103089.5/52

All: 334.479+/-0.033 χ^2/NDF : 18415107.8/99

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 138.481 ± 28.418 χ^2/NDF : 25.1/23

Left Out: -10.667 ± 18.610 χ^2/NDF : 36.3/24

Right Out: 87.641 ± 27.524 χ^2/NDF : 29.5/27

Left In: 0.575 ± 19.091 χ^2/NDF : 23.8/22

Left: -5.190 ± 13.326 χ^2/NDF : 60.3/47

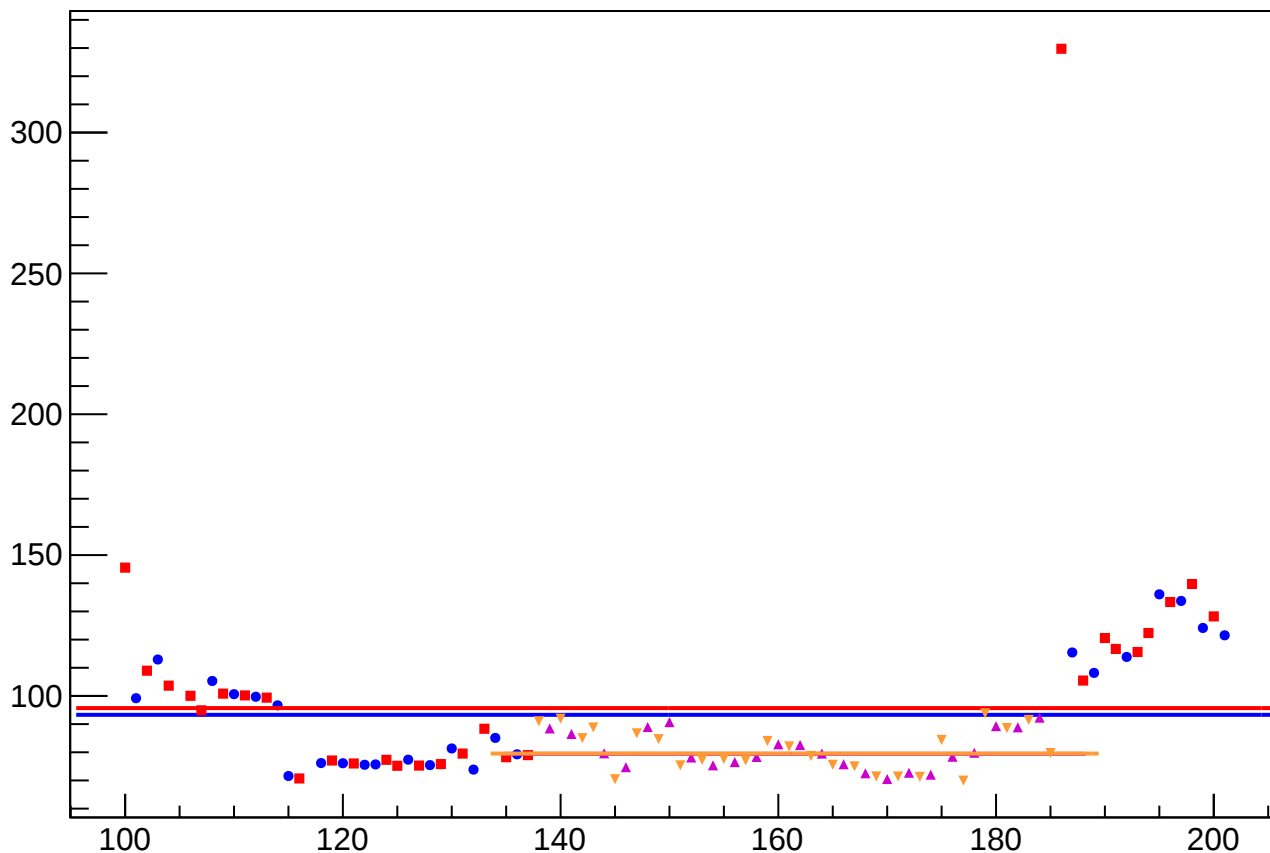
Right: 112.249 ± 19.771 χ^2/NDF : 56.2/51

In: 43.460 ± 15.847 χ^2/NDF : 65.1/46

Out: 20.174 ± 15.417 χ^2/NDF : 74.6/52

All: 31.496 ± 11.050 χ^2/NDF : 140.8/99

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 93.295+/-0.020 χ^2/NDF : 1000021.2/23

Left Out: 79.551+/-0.013 χ^2/NDF :309075.2/24

Right Out: 95.686+/-0.019 χ^2/NDF : 1439142.3/27

Left In: 79.436+/-0.013 χ^2/NDF :212440.1/22

Left: 79.495+/-0.009 χ^2/NDF : 521552.2/47

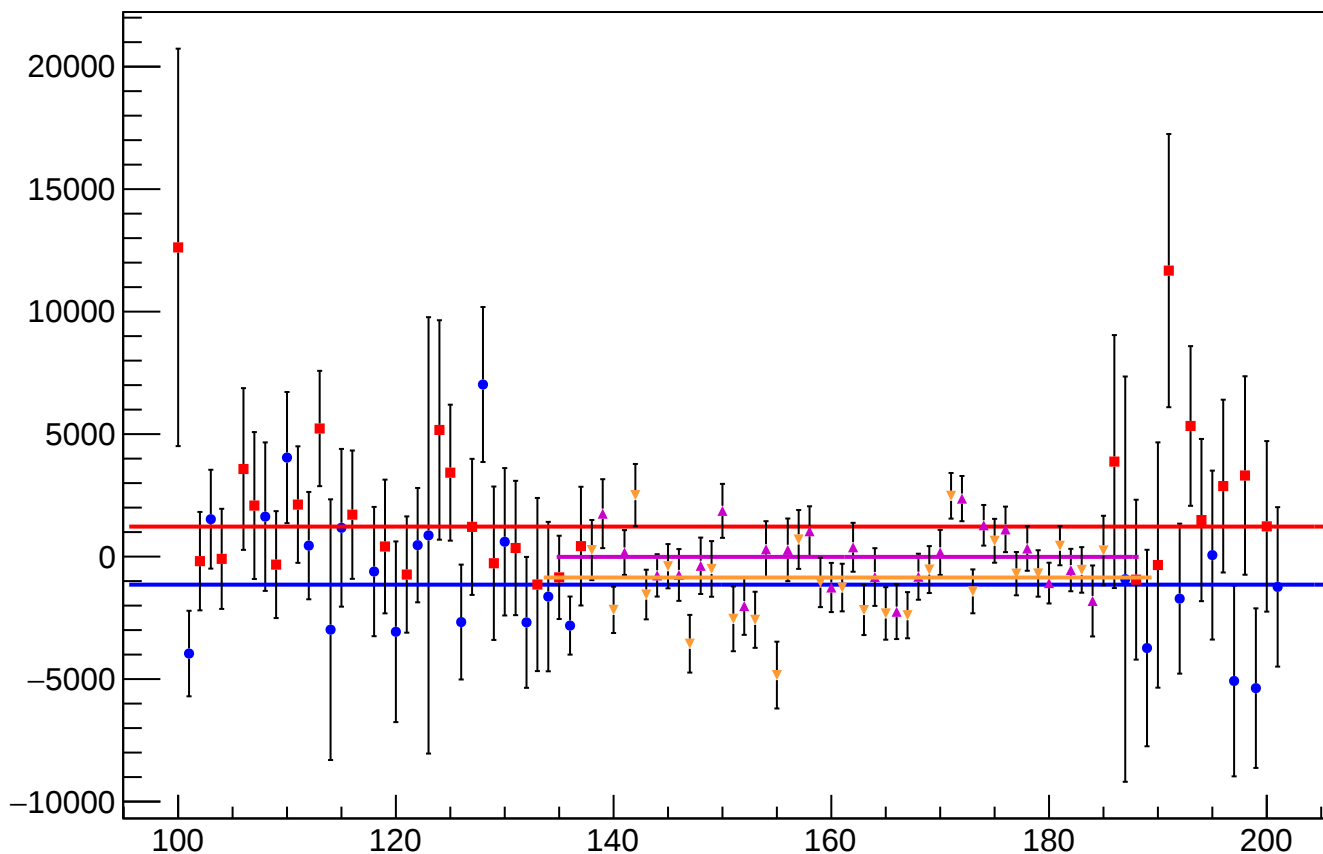
Right: 94.529+/-0.014 χ^2/NDF : 2446470.3/51

In: 83.746+/-0.011 χ^2/NDF :1540192.3/46

Out: 84.613+/-0.011 χ^2/NDF :2219905.6/52

All: 84.192+/-0.008 χ^2/NDF : 3763173.3/99

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1145.292 $\pm$ 538.441 χ^2 /NDF: 24.0/23

Left Out: -854.130 $\pm$ 204.090 χ^2 /NDF:56.0/24

Right Out: 1225.253 $\pm$ 535.776 χ^2 /NDF: 18.0/27

Left In: -11.687 $\pm$ 210.073 χ^2 /NDF:31.2/22

Left: -445.076 $\pm$ 146.383 χ^2 /NDF: 95.5/47

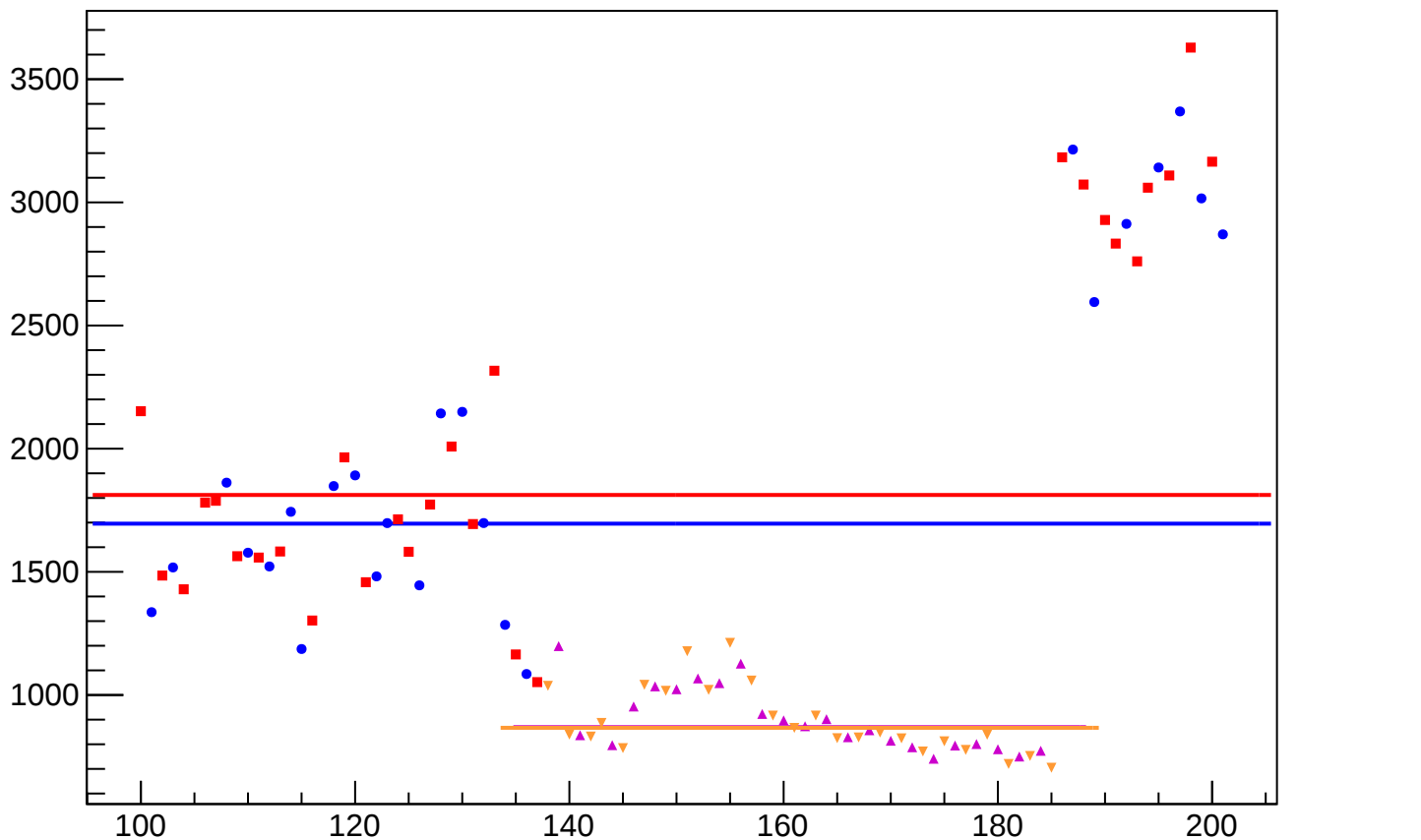
Right: 45.863 $\pm$ 379.790 χ^2 /NDF: 51.7/51

In: -161.446 $\pm$ 195.706 χ^2 /NDF:59.1/46

Out: -590.638 $\pm$ 190.721 χ^2 /NDF:87.1/52

All: -381.576 $\pm$ 136.589 χ^2 /NDF: 148.7/99

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1695.654 $\pm$ 0.381 χ^2/NDF : 2671580.0/23

Left Out: 866.893 $\pm$ 0.144 χ^2/NDF : 661712.5/24

Right Out: 1812.103 $\pm$ 0.379 χ^2/NDF : 2909395.8/27

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

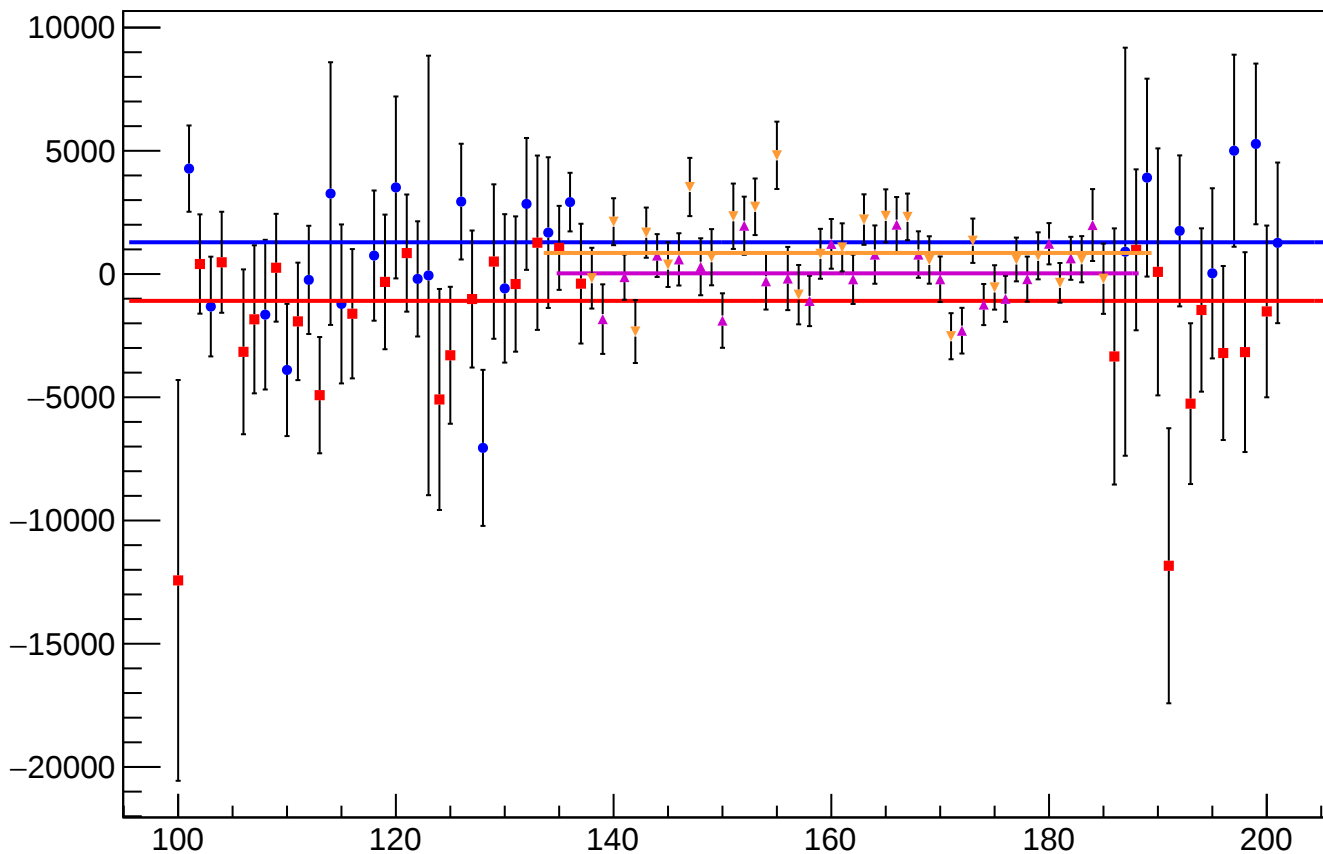
Right: 1754.167 $\pm$ 0.269 χ^2/NDF : 5627980.4/51

In: 978.701 $\pm$ 0.138 χ^2/NDF : 7339603.4/46

Out: 986.667 $\pm$ 0.135 χ^2/NDF : 9007057.1/52

All: 982.787 $\pm$ 0.097 χ^2/NDF : 16348359.8/99

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1288.953+/-539.463 χ^2/NDF : 24.3/23

Left Out: 855.664+/-205.047 χ^2/NDF : 54.1/24

Right Out: -1088.562+/-536.878 χ^2/NDF : 17.9/27

Left In: 28.553+/-211.034 χ^2/NDF : 29.7/22

Left: 454.007+/-147.061 χ^2/NDF : 91.7/47

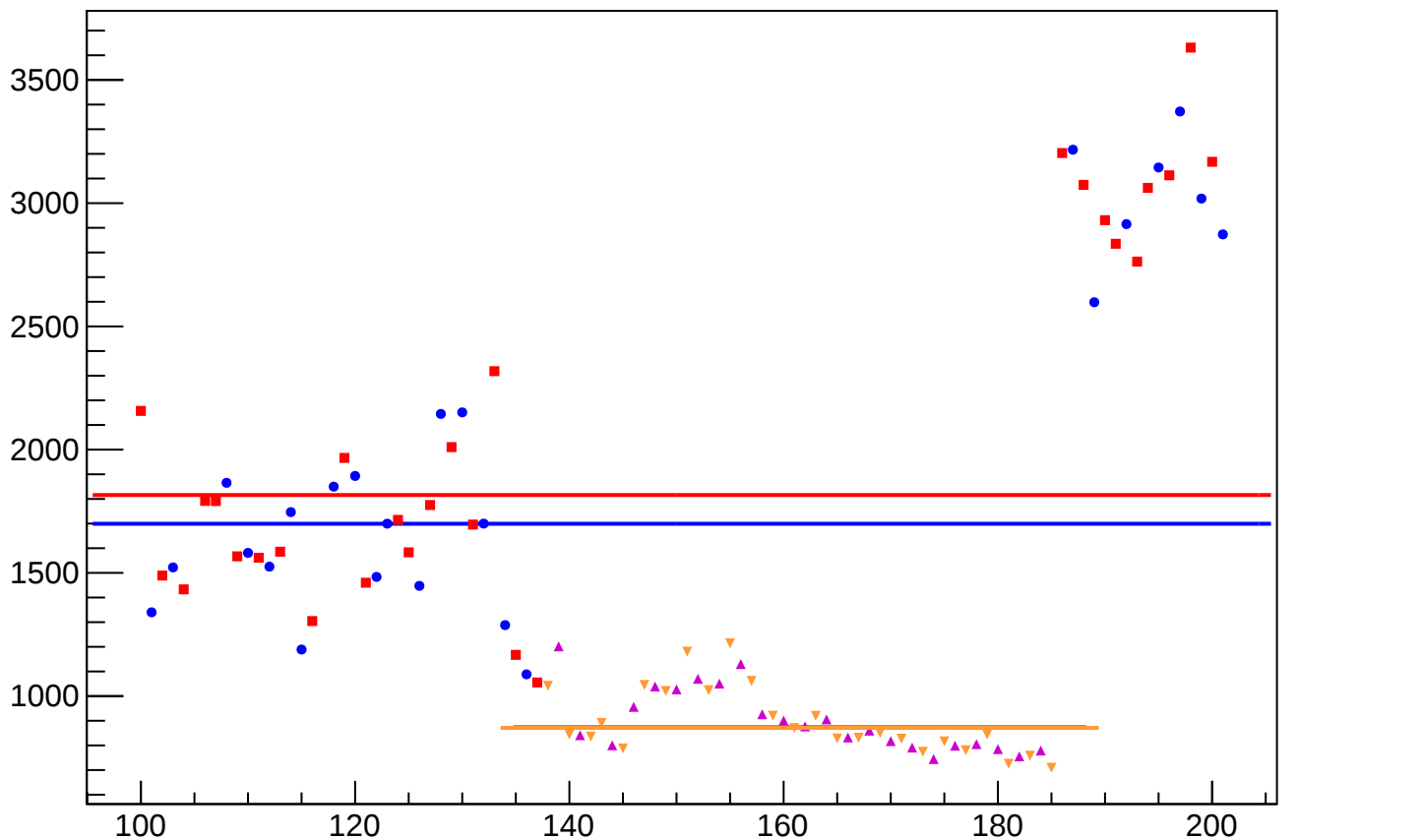
Right: 94.486+/-380.541 χ^2/NDF : 52.1/51

In: 195.834+/-196.531 χ^2/NDF : 58.8/46

Out: 608.169+/-191.552 χ^2/NDF : 83.4/52

All: 407.291+/-137.174 χ^2/NDF : 144.5/99

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1699.302 $\pm$ 0.381 χ^2/NDF : 2662204.4/23

Left Out: 871.109 $\pm$ 0.145 χ^2/NDF : 651751.1/24

Right Out: 1815.792 $\pm$ 0.380 χ^2/NDF : 2902794.4/27

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

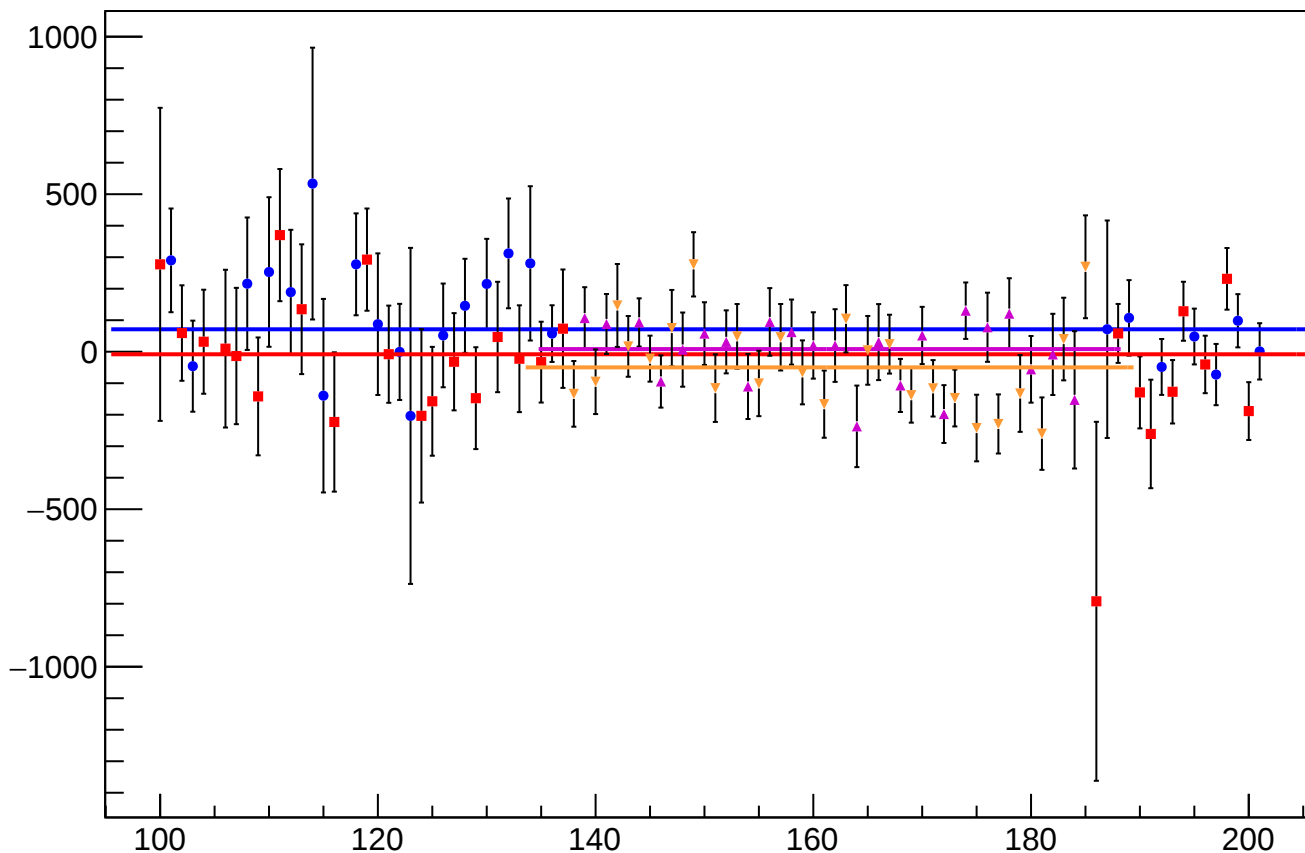
Right: 1757.827 $\pm$ 0.269 χ^2/NDF : 5611851.6/51

In: 983.253 $\pm$ 0.139 χ^2/NDF : 7298894.6/46

Out: 991.365 $\pm$ 0.135 χ^2/NDF : 8958560.7/52

All: 987.413 $\pm$ 0.097 χ^2/NDF : 16259202.8/99

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 71.178 $\pm$ 27.966 χ^2 /NDF: 16.4/23

Left Out: -49.717 $\pm$ 20.580 χ^2 /NDF:39.4/24

Right Out: -8.155 $\pm$ 27.075 χ^2 /NDF: 30.7/27

Left In: 8.343 $\pm$ 21.271 χ^2 /NDF:22.0/22

Left: -21.646 $\pm$ 14.791 χ^2 /NDF: 65.3/47

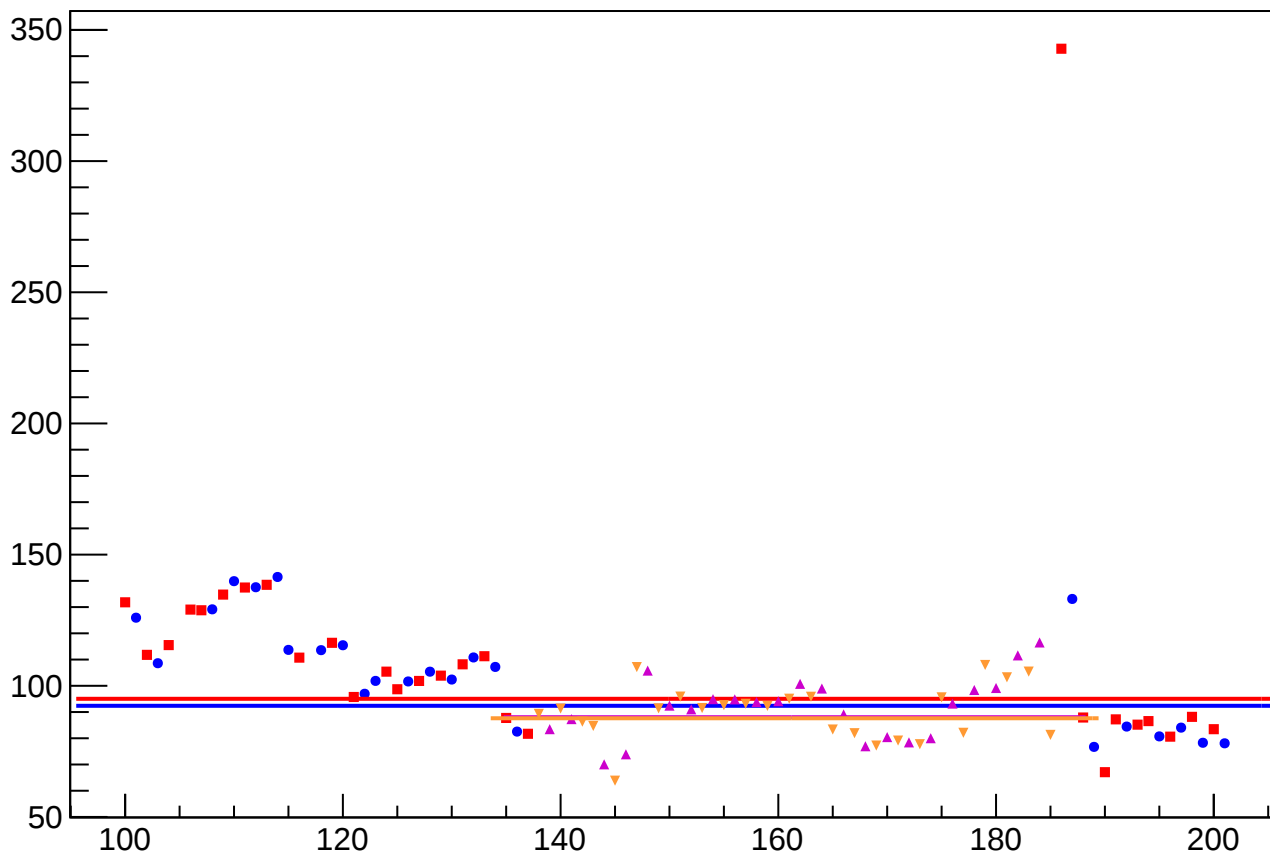
Right: 30.228 $\pm$ 19.453 χ^2 /NDF: 51.3/51

In: 31.371 $\pm$ 16.930 χ^2 /NDF:41.6/46

Out: -34.497 $\pm$ 16.384 χ^2 /NDF:71.6/52

All: -2.643 $\pm$ 11.774 χ^2 /NDF: 121.0/99

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 92.378 $\pm$ 0.020 χ^2 /NDF: 766528.4/23

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 95.045 $\pm$ 0.019 χ^2 /NDF: 1158349.5/27

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

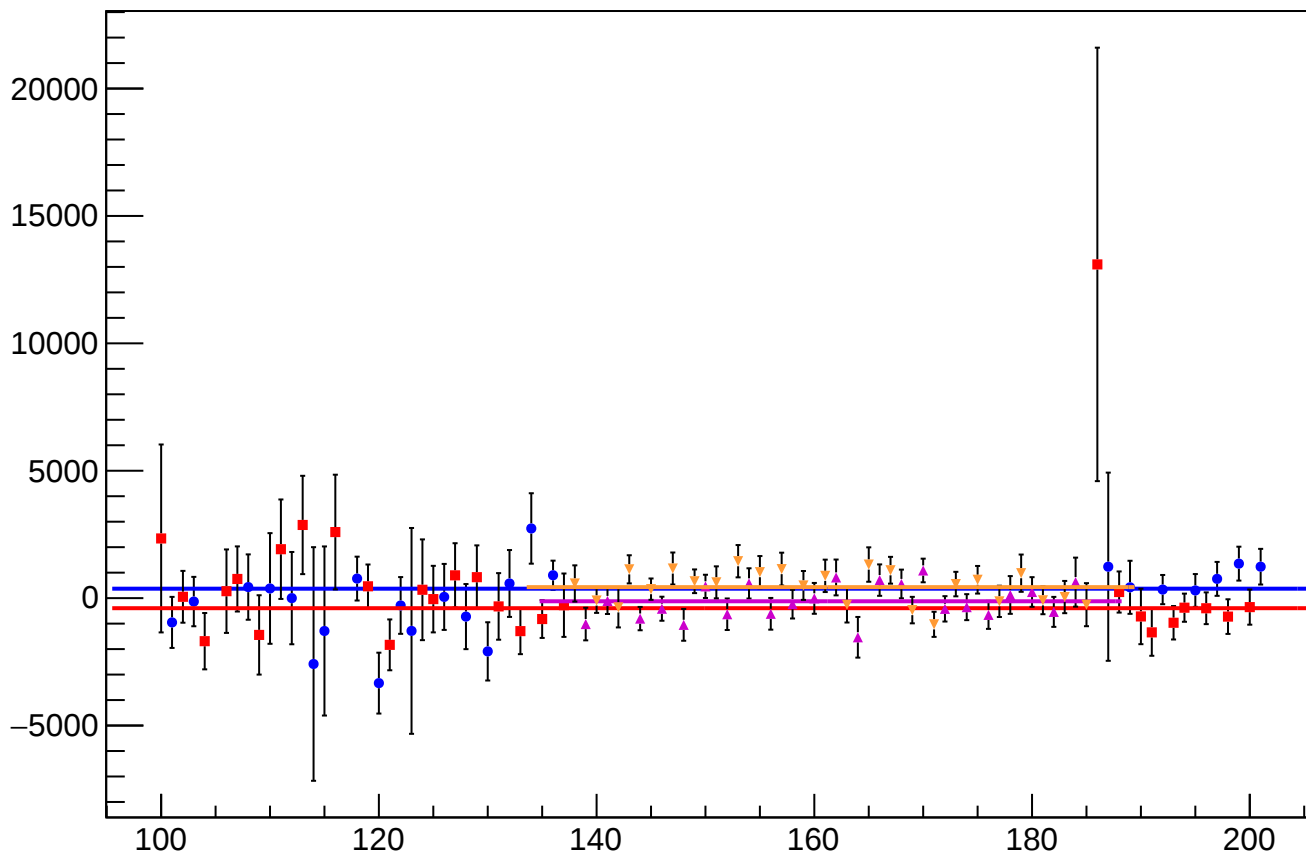
Right: 93.754 $\pm$ 0.014 χ^2 /NDF: 1934271.0/51

In: 89.625 $\pm$ 0.012 χ^2 /NDF: 1320828.3/46

Out: 90.342 $\pm$ 0.012 χ^2 /NDF: 1808234.4/52

All: 89.995 $\pm$ 0.008 χ^2 /NDF: 3130919.0/99

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 370.845+/-198.493 χ^2/NDF : 26.4/23

Left Out: 431.658+/-115.706 χ^2/NDF :30.5/24

Right Out: -394.878+/-186.474 χ^2/NDF : 21.5/27

Left In: -123.017+/-118.849 χ^2/NDF :29.3/22

Left: 161.753+/-82.905 χ^2/NDF : 70.9/47

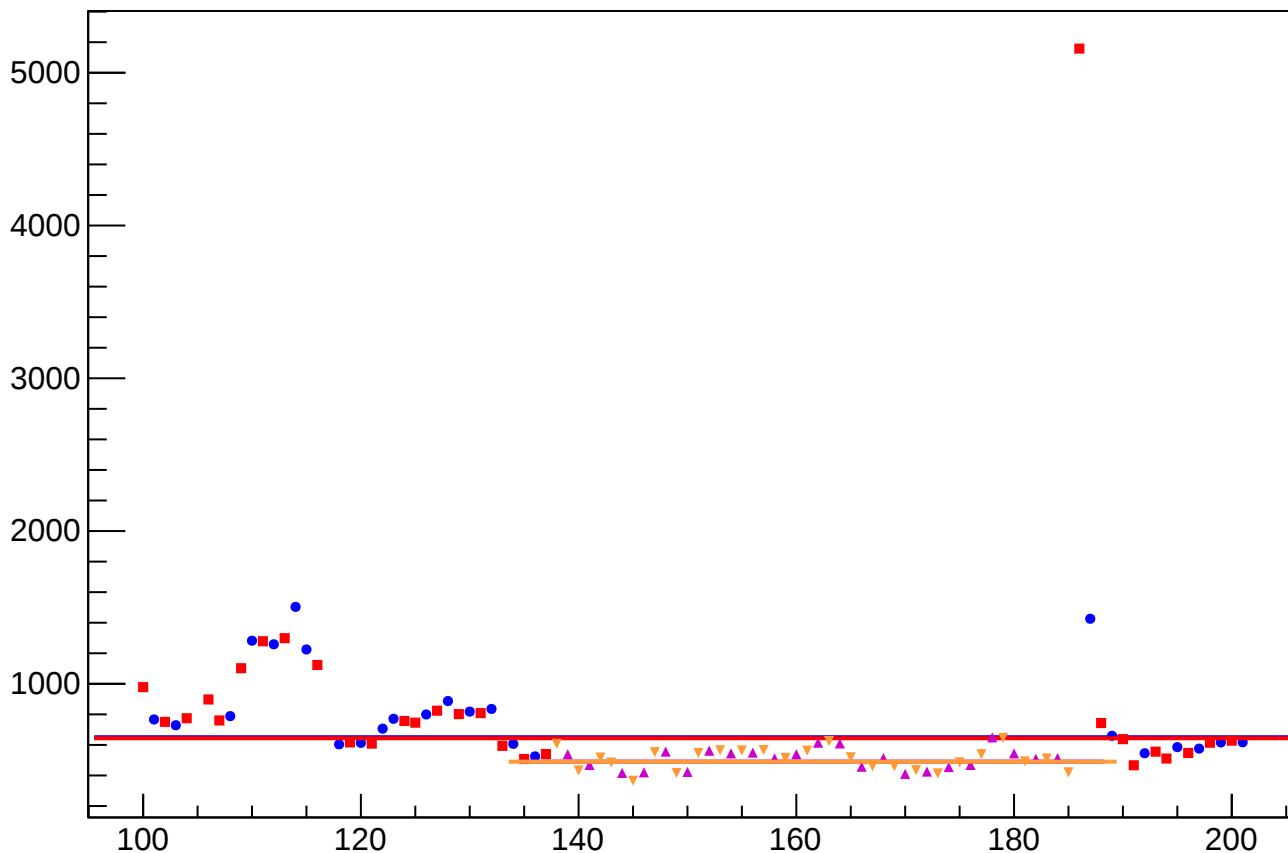
Right: -35.898+/-135.907 χ^2/NDF : 55.8/51

In: 7.314+/-101.968 χ^2/NDF :60.2/46

Out: 201.895+/-98.317 χ^2/NDF :66.1/52

All: 108.150+/-70.776 χ^2/NDF : 128.3/99

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 650.426 ± 0.140 χ^2/NDF : 1088292.7/23

Left Out: 490.267 ± 0.082 χ^2/NDF : 750277.0/24

Right Out: 643.611 ± 0.132 χ^2/NDF : 1924640.7/27

Left In: 490.910 ± 0.084 χ^2/NDF : 589235.5/22

Left: 490.580 ± 0.059 χ^2/NDF : 1339542.5/47

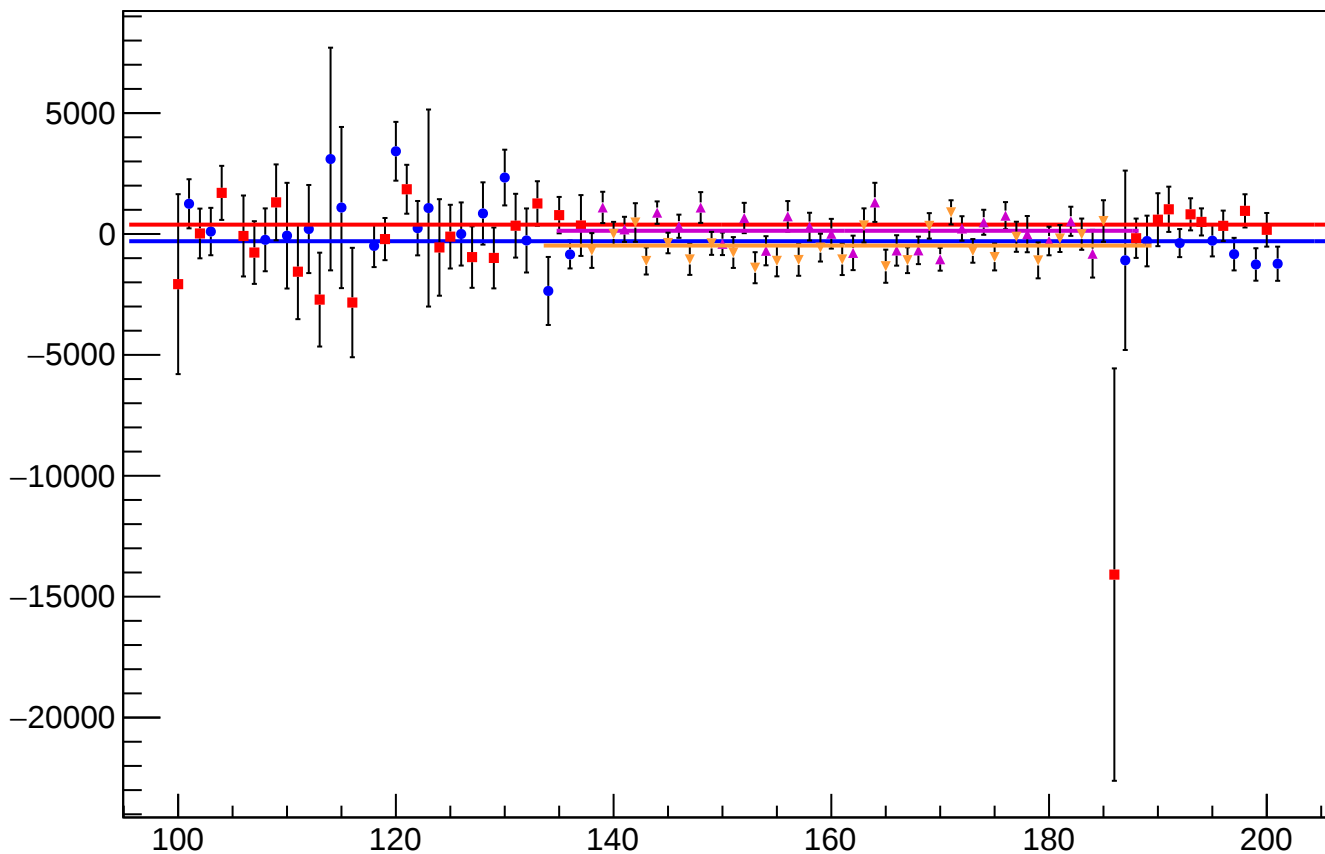
Right: 646.806 ± 0.096 χ^2/NDF : 3014185.5/51

In: 533.006 ± 0.072 χ^2/NDF : 2628322.9/46

Out: 532.894 ± 0.070 χ^2/NDF : 3651424.5/52

All: 532.948 ± 0.050 χ^2/NDF : 6279748.6/99

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -298.815+/-200.699 χ^2/NDF : 26.6/23

Left Out: -478.197+/-117.659 χ^2/NDF : 27.8/24

Right Out: 386.919+/-188.742 χ^2/NDF : 20.2/27

Left In: 132.543+/-120.866 χ^2/NDF : 29.5/22

Left: -181.037+/-84.308 χ^2/NDF : 70.5/47

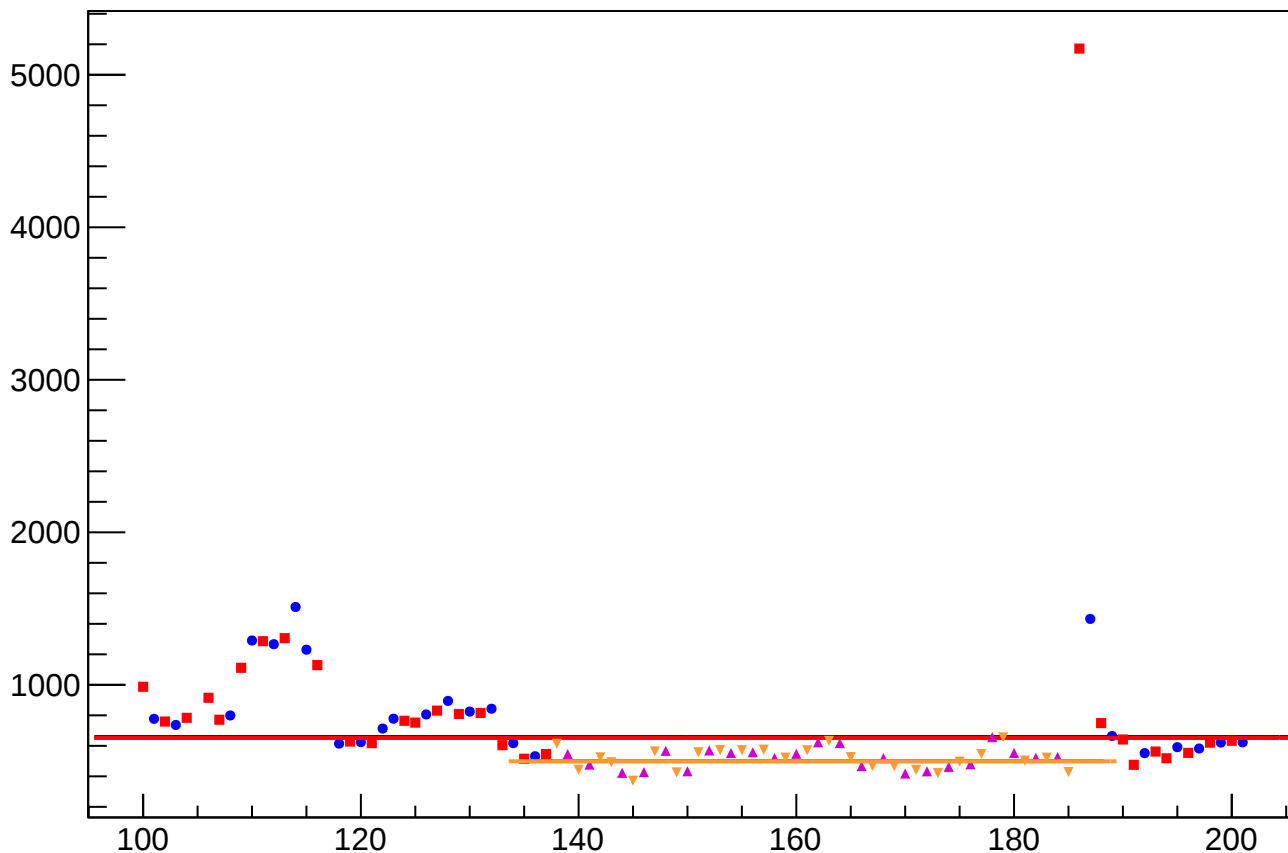
Right: 65.087+/-137.494 χ^2/NDF : 53.1/51

In: 17.738+/-103.540 χ^2/NDF : 59.6/46

Out: -236.089+/-99.847 χ^2/NDF : 63.2/52

All: -113.783+/-71.873 χ^2/NDF : 125.9/99

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 657.889 $\pm$ 0.142 χ^2 /NDF: 1076308.7/23

Left Out: 498.754 $\pm$ 0.083 χ^2 /NDF: 734302.8/24

Right Out: 651.781 $\pm$ 0.133 χ^2 /NDF: 1902255.9/27

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

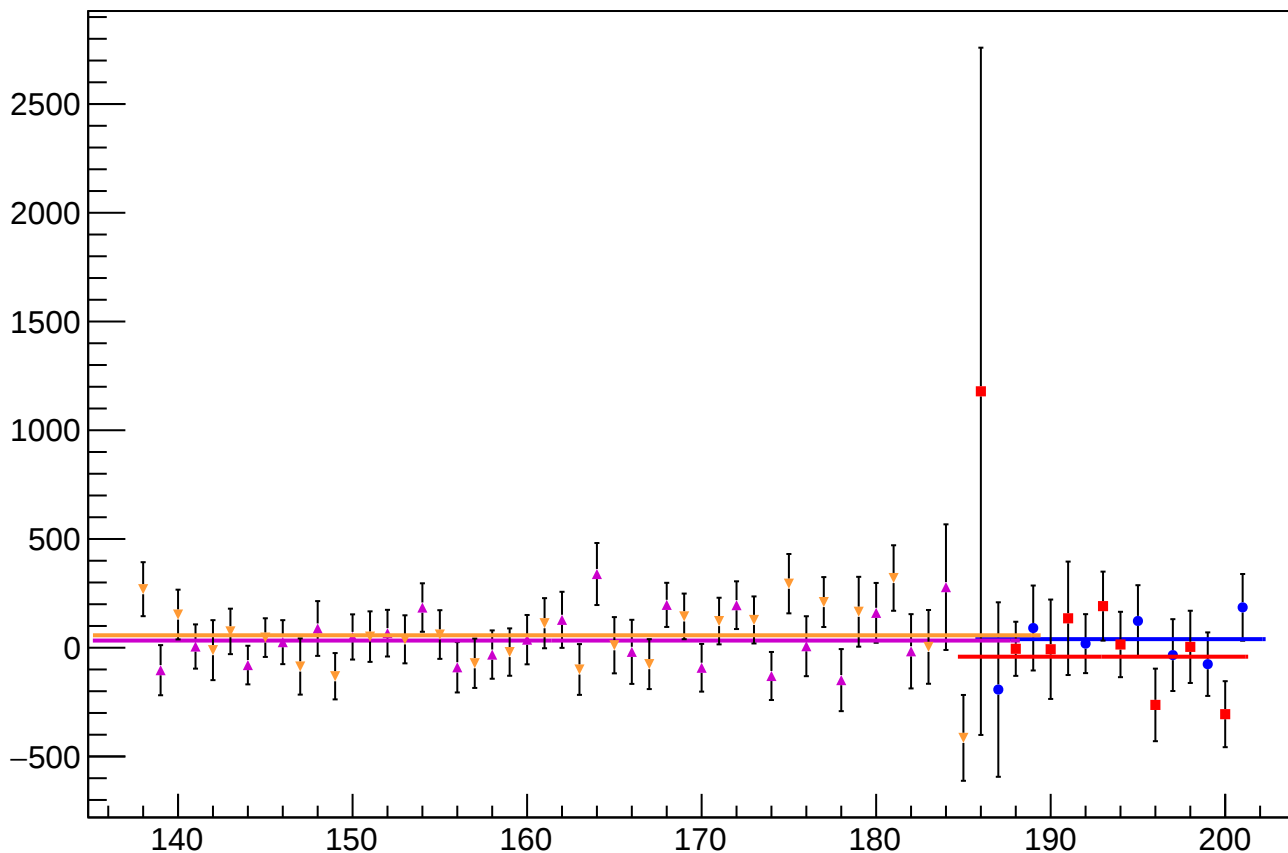
Right: 654.648 $\pm$ 0.097 χ^2 /NDF: 2979547.6/51

In: 541.577 $\pm$ 0.073 χ^2 /NDF: 2568193.9/46

Out: 541.580 $\pm$ 0.071 χ^2 /NDF: 3583341.7/52

All: 541.578 $\pm$ 0.051 χ^2 /NDF: 6151535.6/99

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 39.485 $\pm$ 63.263 χ^2 /NDF: 2.4/6

Left Out: 57.211 $\pm$ 23.714 χ^2 /NDF:29.2/24

Right Out: -41.241 $\pm$ 57.884 χ^2 /NDF: 8.3/8

Left In: 32.948 $\pm$ 24.587 χ^2 /NDF:23.6/22

Left: 45.518 $\pm$ 17.069 χ^2 /NDF: 53.3/47

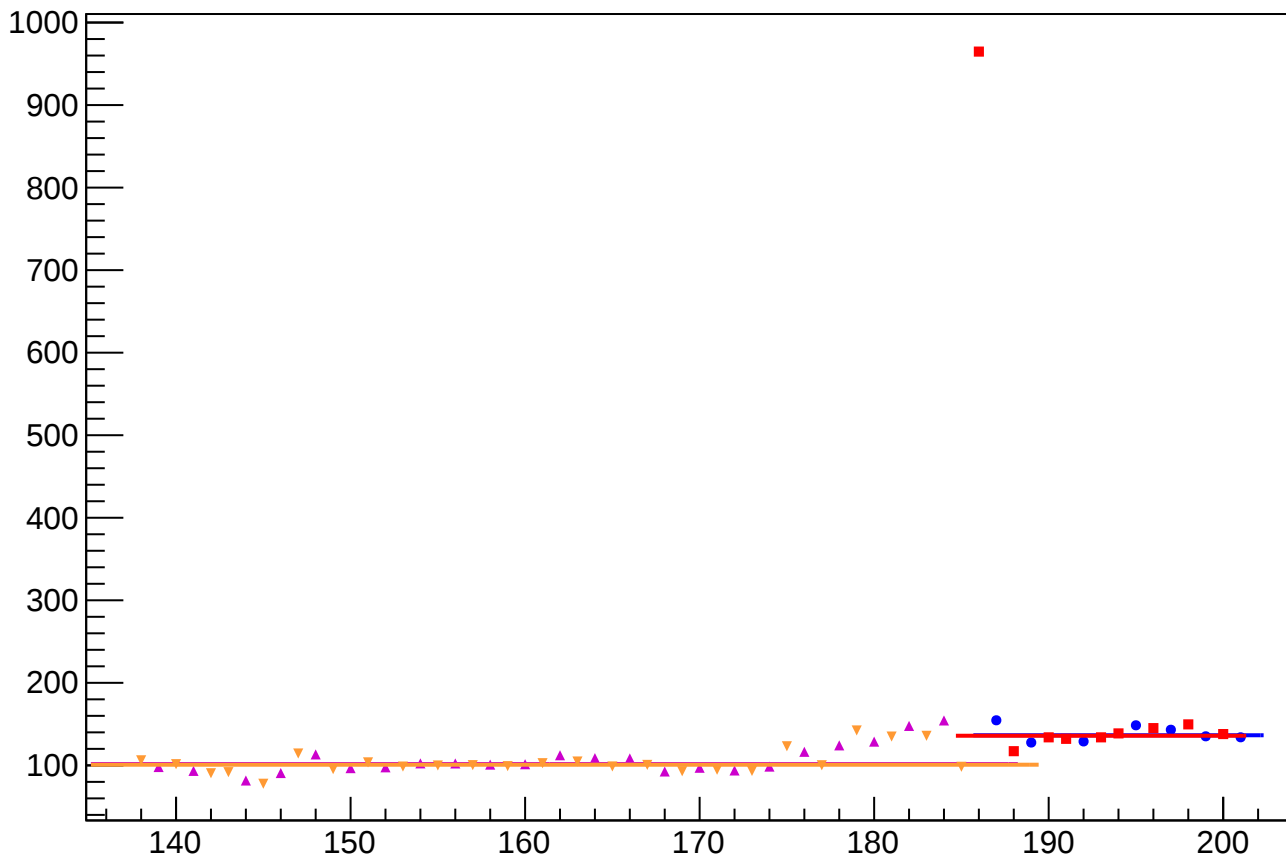
Right: -4.455 $\pm$ 42.705 χ^2 /NDF: 11.6/15

In: 33.806 $\pm$ 22.917 χ^2 /NDF:26.0/29

Out: 43.062 $\pm$ 21.944 χ^2 /NDF:40.0/33

All: 38.635 $\pm$ 15.849 χ^2 /NDF: 66.1/63

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 136.485 $\pm$ 0.045 χ^2/NDF : 28964.1/6

Left Out: 100.801 $\pm$ 0.017 χ^2/NDF : 600502.4/24

Right Out: 135.897 $\pm$ 0.041 χ^2/NDF : 617376.0/8

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

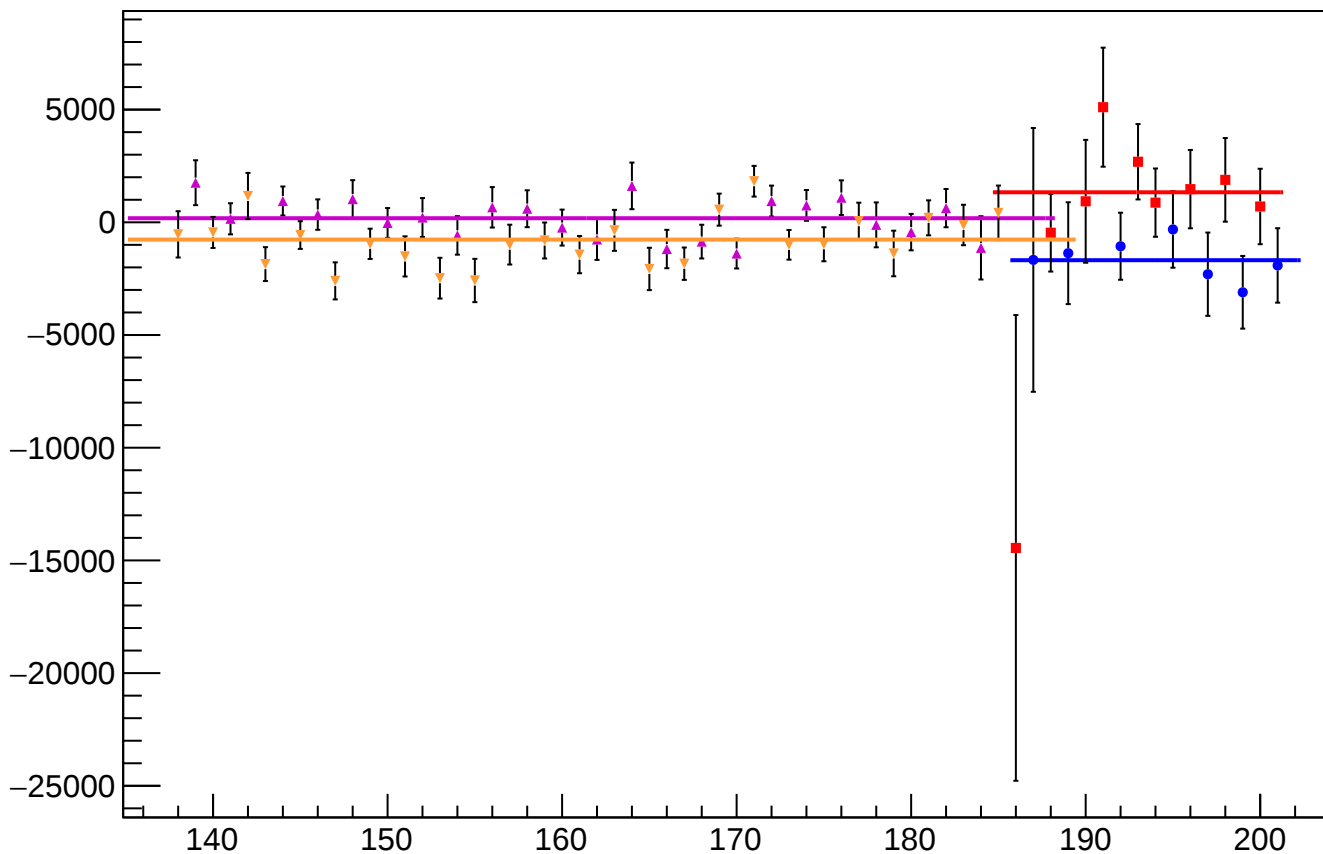
Right: 136.165 $\pm$ 0.030 χ^2/NDF : 646434.2/15

In: 106.197 $\pm$ 0.016 χ^2/NDF : 1138979.4/29

Out: 105.844 $\pm$ 0.016 χ^2/NDF : 1847466.3/33

All: 106.013 $\pm$ 0.011 χ^2/NDF : 2986692.4/63

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1680.855 $\pm$ 695.406 χ^2 /NDF: 1.8/6

Left Out: -766.358 $\pm$ 161.066 χ^2 /NDF:46.5/24

Right Out: 1332.520 $\pm$ 645.976 χ^2 /NDF: 6.5/8

Left In: 181.584 $\pm$ 165.671 χ^2 /NDF:25.0/22

Left: -305.743 $\pm$ 115.485 χ^2 /NDF: 88.4/47

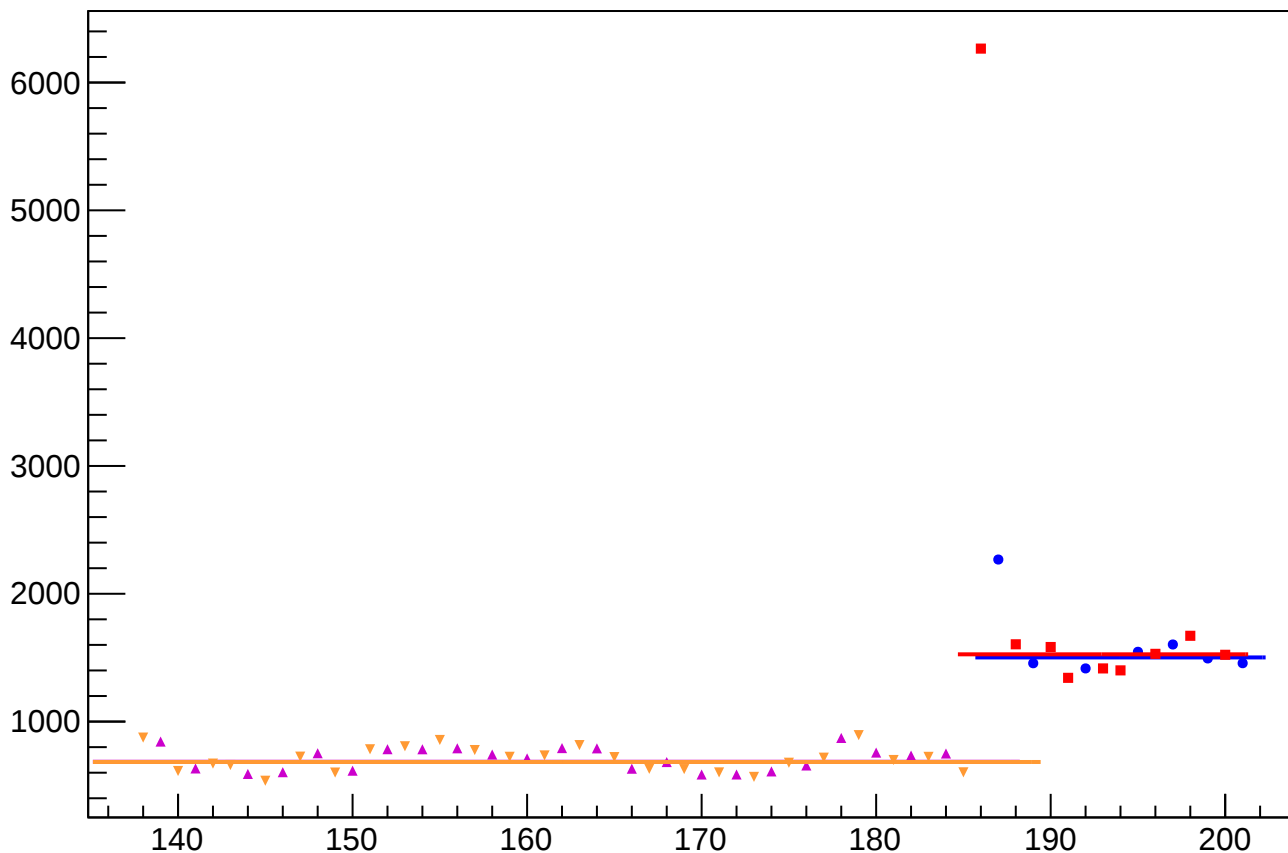
Right: -63.274 $\pm$ 473.285 χ^2 /NDF: 18.3/15

In: 81.556 $\pm$ 161.160 χ^2 /NDF:33.5/29

Out: -643.509 $\pm$ 156.282 χ^2 /NDF:62.9/33

All: -292.118 $\pm$ 112.193 χ^2 /NDF: 106.9/63

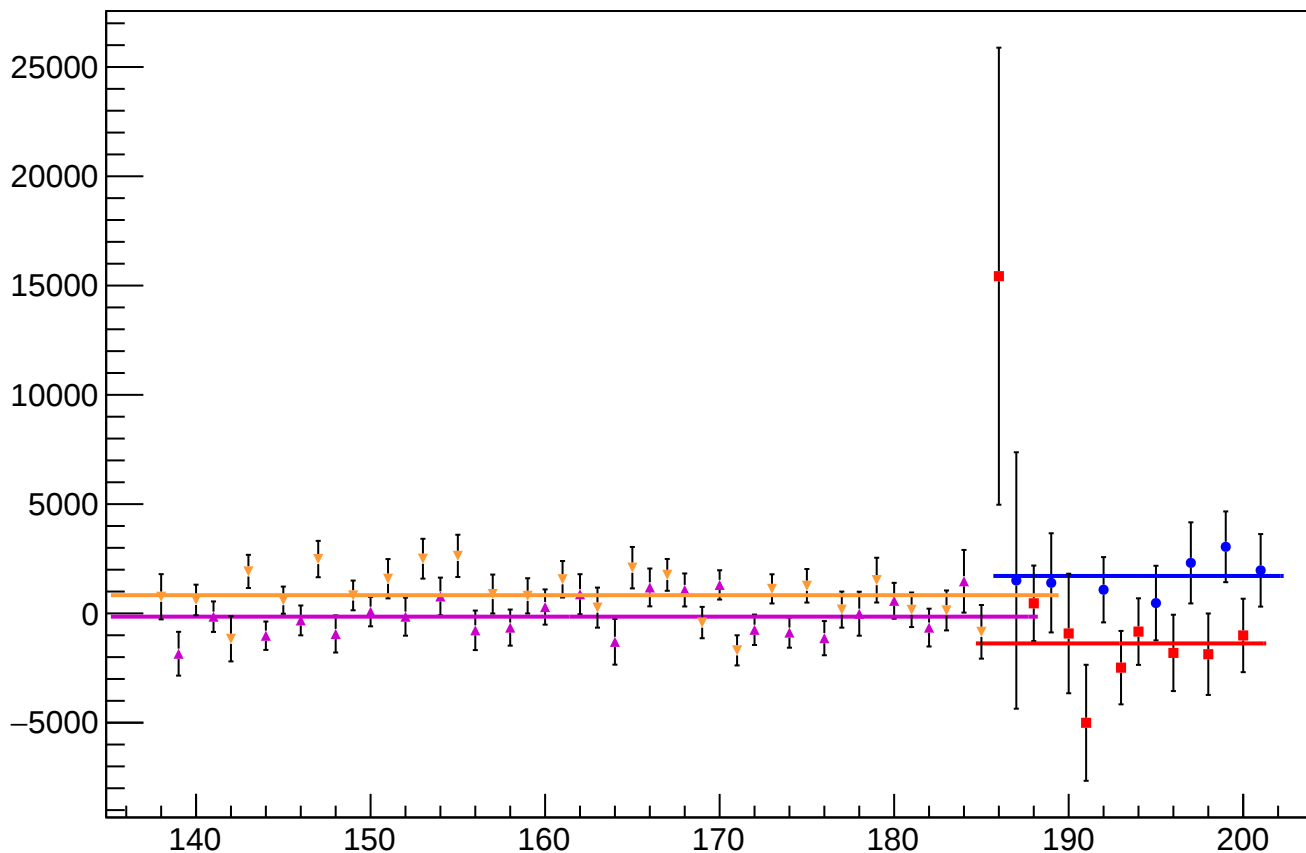
asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1501.902 $\pm$ 0.492 χ^2 /NDF: 50635.6/6
 Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24
 Right Out: 1526.219 $\pm$ 0.457 χ^2 /NDF: 470251.8/8
 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: 1514.956 $\pm$ 0.335 χ^2 /NDF: 522200.2/15
 In: 729.435 $\pm$ 0.114 χ^2 /NDF: 3187869.5/29
 Out: 733.187 $\pm$ 0.111 χ^2 /NDF: 4339054.4/33
 All: 731.369 $\pm$ 0.079 χ^2 /NDF: 7527482.4/63

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1713.290 ± 698.466 $\chi^2/\text{NDF}: 1.5/6$

Left Out: 833.395 ± 162.965 $\chi^2/\text{NDF}: 43.2/24$

Right Out: -1373.685 ± 648.830 $\chi^2/\text{NDF}: 6.4/8$

Left In: -148.814 ± 167.644 $\chi^2/\text{NDF}: 26.0/22$

Left: 356.189 ± 116.853 $\chi^2/\text{NDF}: 86.9/47$

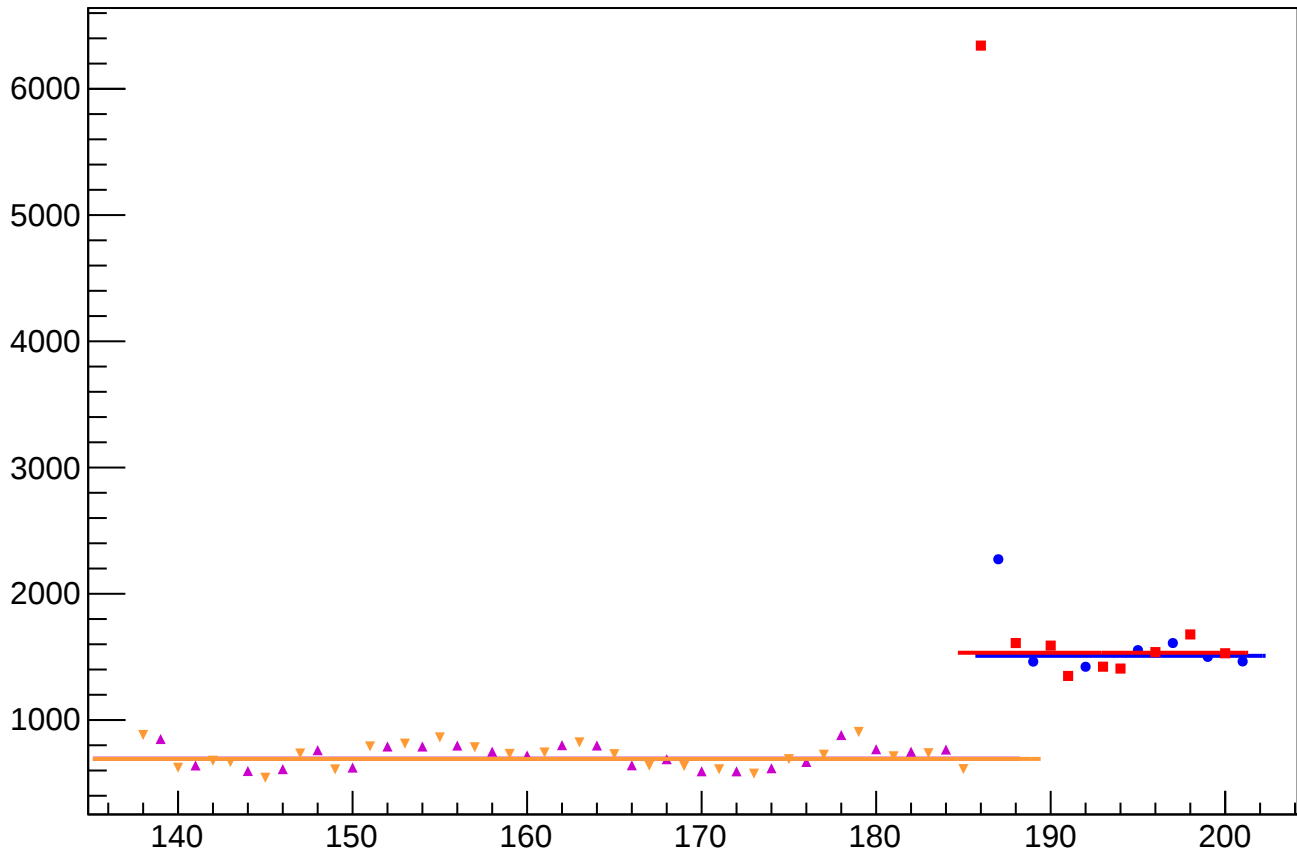
Right: 56.227 ± 475.372 $\chi^2/\text{NDF}: 18.4/15$

In: -47.384 ± 163.014 $\chi^2/\text{NDF}: 34.3/29$

Out: 702.423 ± 158.056 $\chi^2/\text{NDF}: 60.5/33$

All: 339.096 ± 113.475 $\chi^2/\text{NDF}: 105.6/63$

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1508.553+/-0.494 χ^2/NDF : 50397.9/6

Left Out: 692.097+/-0.115 χ^2/NDF : 657259.6/24

Right Out: 1532.924+/-0.459 χ^2/NDF : 471926.1/8

Left In: 693.867+/-0.119 χ^2/NDF : 522053.5/22

Left: 692.957+/-0.083 χ^2/NDF : 1179427.7/47

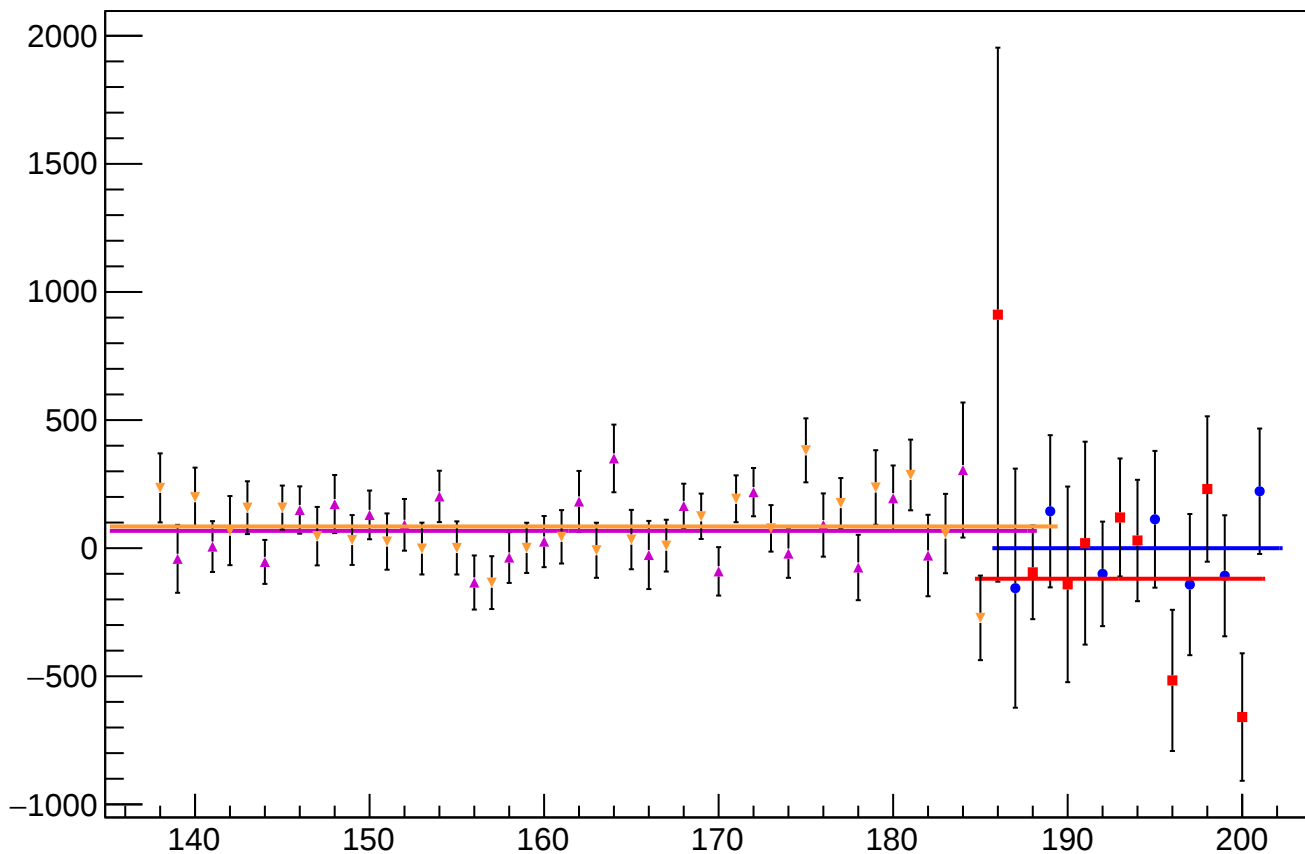
Right: 1521.635+/-0.336 χ^2/NDF : 523631.1/15

In: 738.243+/-0.115 χ^2/NDF : 3145184.6/29

Out: 741.993+/-0.112 χ^2/NDF : 4288656.0/33

All: 740.176+/-0.080 χ^2/NDF : 7434386.0/63

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -0.077 ± 99.126 χ^2/NDF : 2.1/6

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -119.262 ± 90.346 χ^2/NDF : 10.9/8

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

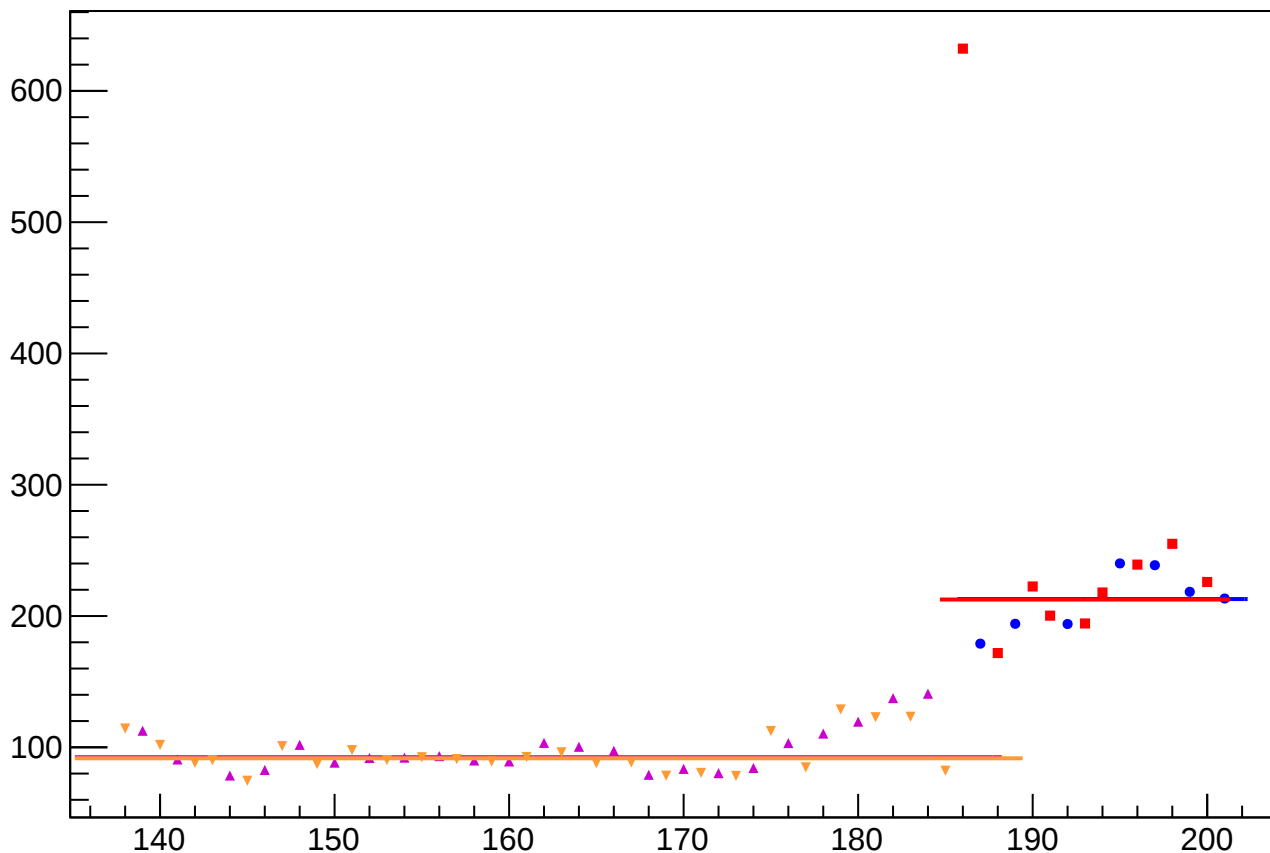
Right: -65.181 ± 66.773 χ^2/NDF : 13.8/15

In: 64.253 ± 21.895 χ^2/NDF : 31.4/29

Out: 73.782 ± 21.047 χ^2/NDF : 44.2/33

All: 69.205 ± 15.173 χ^2/NDF : 75.7/63

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 212.927 $\pm$ 0.070 χ^2 /NDF: 75290.1/6

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 212.576 $\pm$ 0.064 χ^2 /NDF: 509800.1/8

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

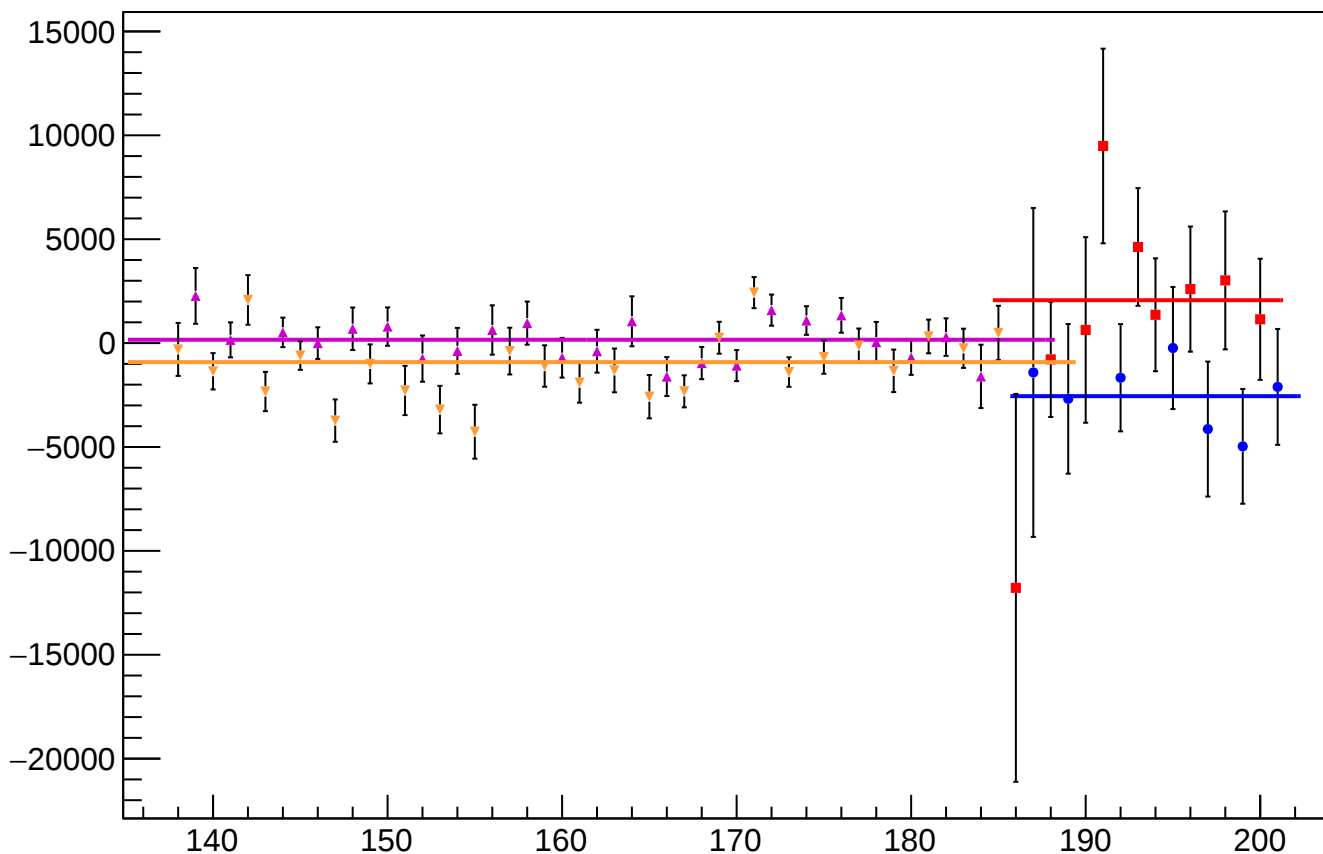
Right: 212.735 $\pm$ 0.047 χ^2 /NDF: 585103.8/15

In: 98.343 $\pm$ 0.015 χ^2 /NDF: 3540430.0/29

Out: 98.197 $\pm$ 0.015 χ^2 /NDF: 4592469.6/33

All: 98.267 $\pm$ 0.011 χ^2 /NDF: 8132946.1/63

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -2554.106 $\pm$ 1183.898 χ^2/NDF : 1.8/6

Left Out: -914.719 $\pm$ 185.341 χ^2/NDF : 64.2/24

Right Out: 2063.236 $\pm$ 1106.995 χ^2/NDF : 7.0/8

Left In: 161.076 $\pm$ 189.491 χ^2/NDF : 25.1/22

Left: -388.730 $\pm$ 132.499 χ^2/NDF : 105.7/47

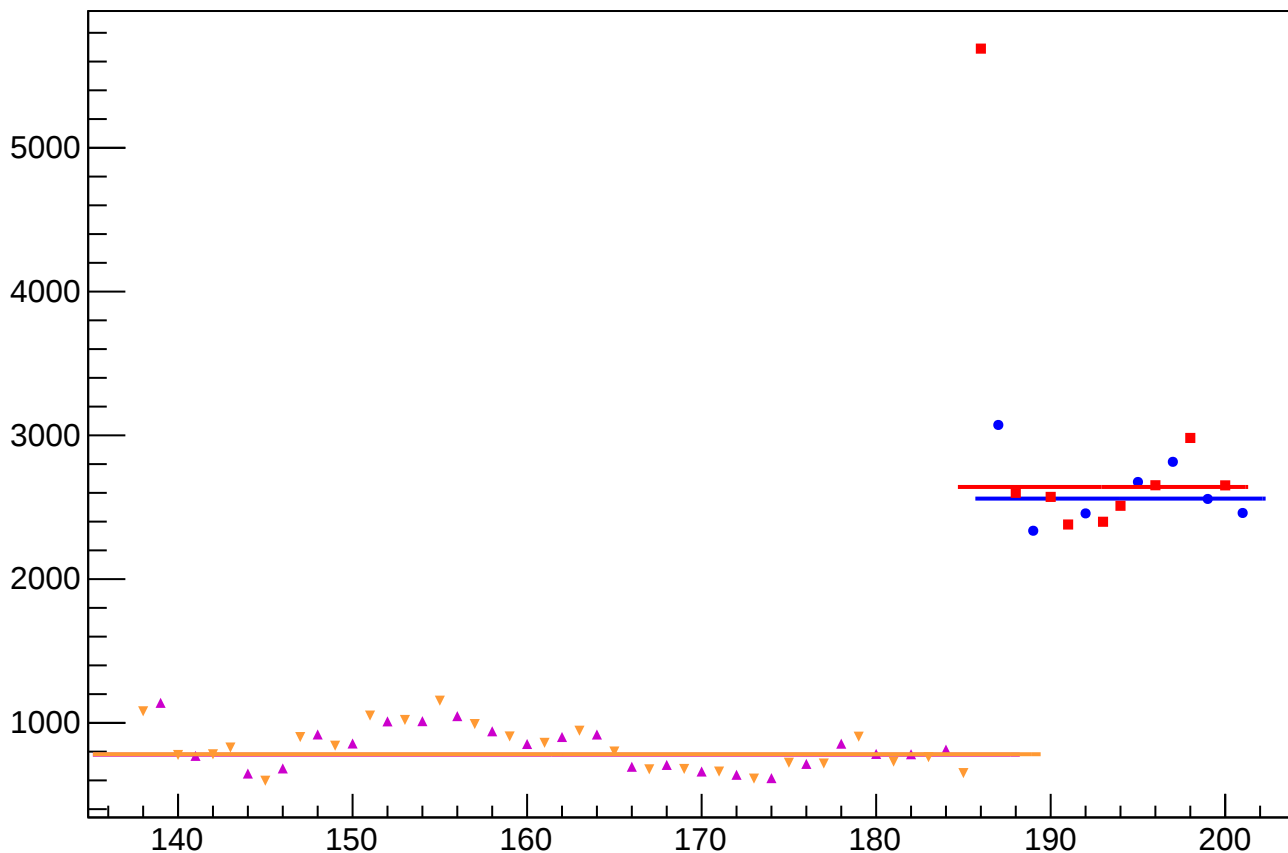
Right: -90.609 $\pm$ 808.585 χ^2/NDF : 16.9/15

In: 93.256 $\pm$ 187.109 χ^2/NDF : 32.0/29

Out: -833.518 $\pm$ 182.796 χ^2/NDF : 78.2/33

All: -380.935 $\pm$ 130.755 χ^2/NDF : 122.7/63

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2560.082 $\pm$ 0.837 χ^2 /NDF: 37352.1/6

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF:1130984.3/24

Right Out: 2641.031 $\pm$ 0.783 χ^2 /NDF: 260932.8/8

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

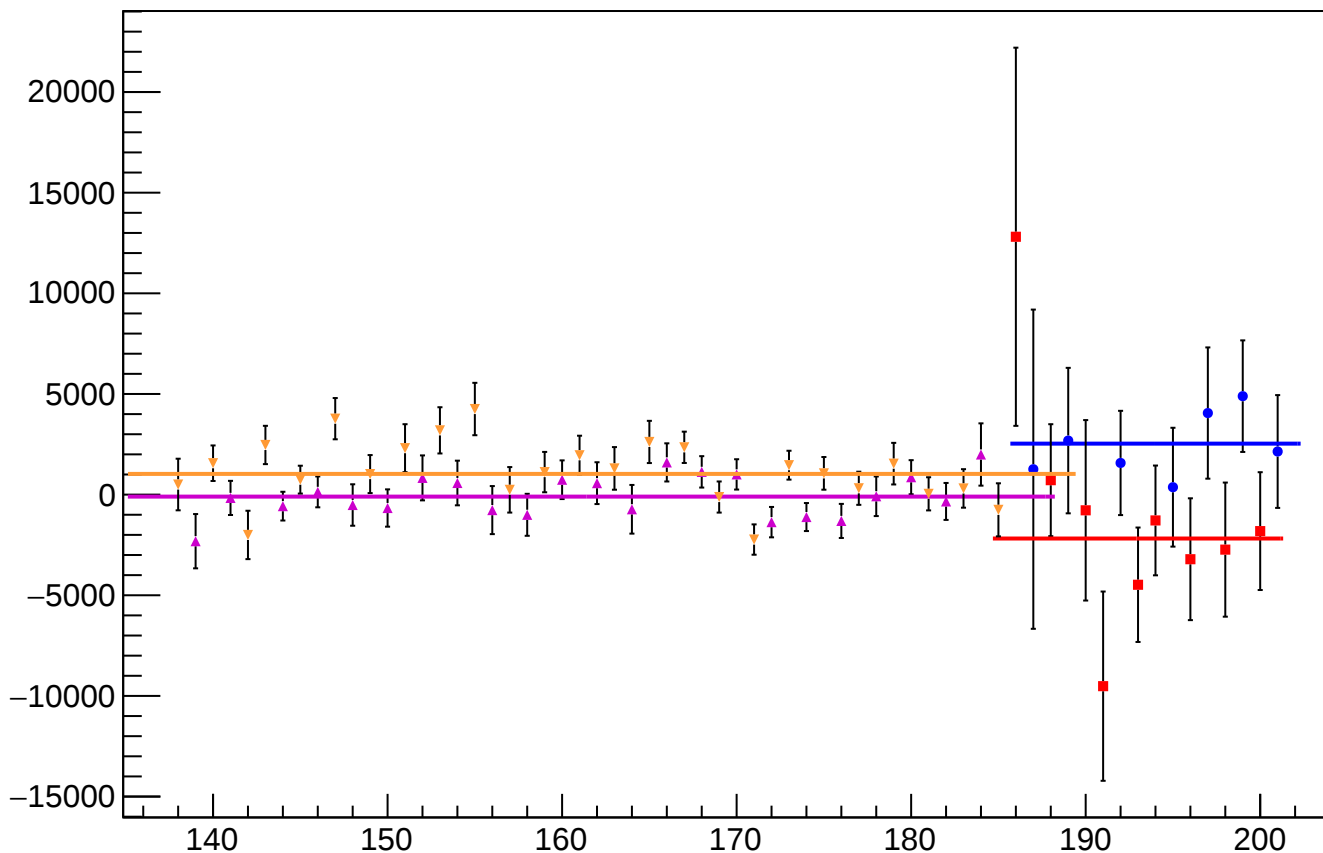
Right: 2603.271 $\pm$ 0.572 χ^2 /NDF: 303273.5/15

In: 823.483 $\pm$ 0.132 χ^2 /NDF:5431128.0/29

Out: 832.732 $\pm$ 0.129 χ^2 /NDF:6878298.0/33

All: 828.215 $\pm$ 0.092 χ^2 /NDF: 12311926.2/63

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2533.110+/-1188.452 χ^2/NDF : 1.7/6

Left Out: 1028.864+/-186.810 χ^2/NDF :60.2/24

Right Out: -2180.724+/-1111.119 χ^2/NDF : 7.1/8

Left In: -98.691+/-191.027 χ^2/NDF :25.4/22

Left: 477.669+/-133.561 χ^2/NDF : 103.3/47

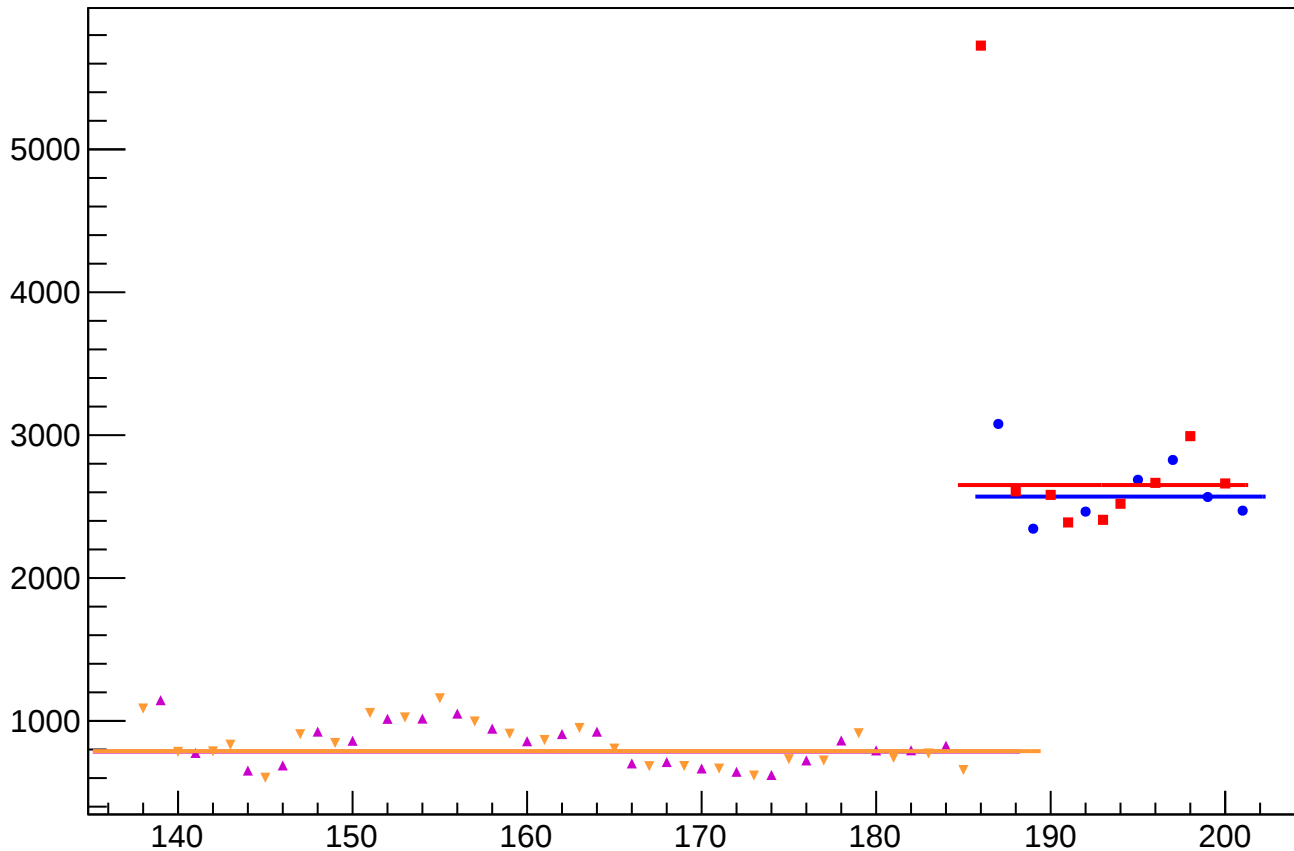
Right: 17.848+/-811.643 χ^2/NDF : 17.1/15

In: -32.408+/-188.606 χ^2/NDF :31.8/29

Out: 940.632+/-184.225 χ^2/NDF :75.4/33

All: 465.546+/-131.788 χ^2/NDF : 120.8/63

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2569.956 $\pm$ 0.840 χ^2 /NDF: 37263.8/6

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF: 1113741.6/24

Right Out: 2650.791 $\pm$ 0.786 χ^2 /NDF: 262000.1/8

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

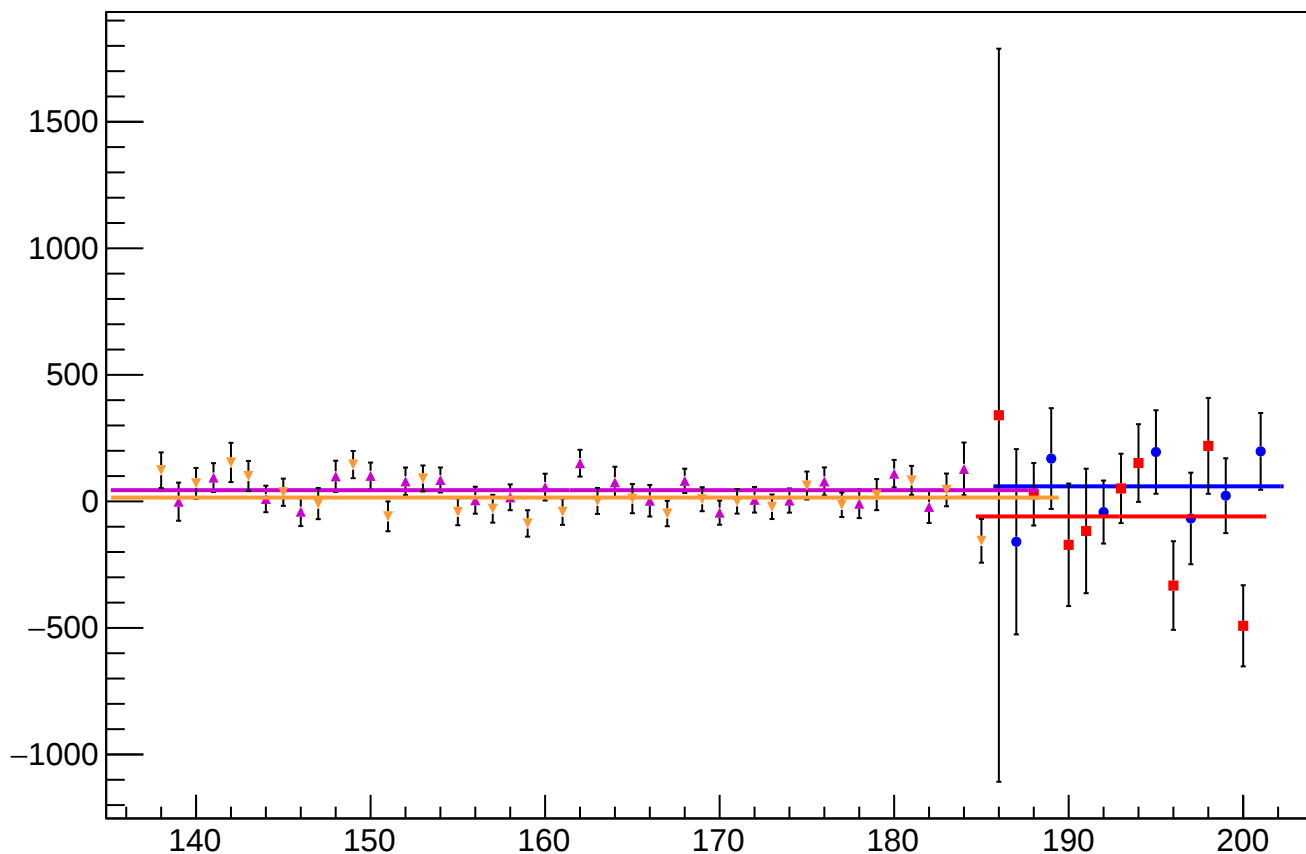
Right: 2613.089 $\pm$ 0.574 χ^2 /NDF: 304201.0/15

In: 830.433 $\pm$ 0.133 χ^2 /NDF: 5398067.6/29

Out: 839.638 $\pm$ 0.130 χ^2 /NDF: 6839923.8/33

All: 835.143 $\pm$ 0.093 χ^2 /NDF: 12240429.5/63

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 59.466 $\pm$ 62.790 χ^2 /NDF: 3.4/6

Left Out: 15.099 $\pm$ 11.154 χ^2 /NDF:34.2/24

Right Out: -59.440 $\pm$ 58.226 χ^2 /NDF: 15.3/8

Left In: 44.297 $\pm$ 11.530 χ^2 /NDF:22.3/22

Left: 29.215 $\pm$ 8.017 χ^2 /NDF: 59.8/47

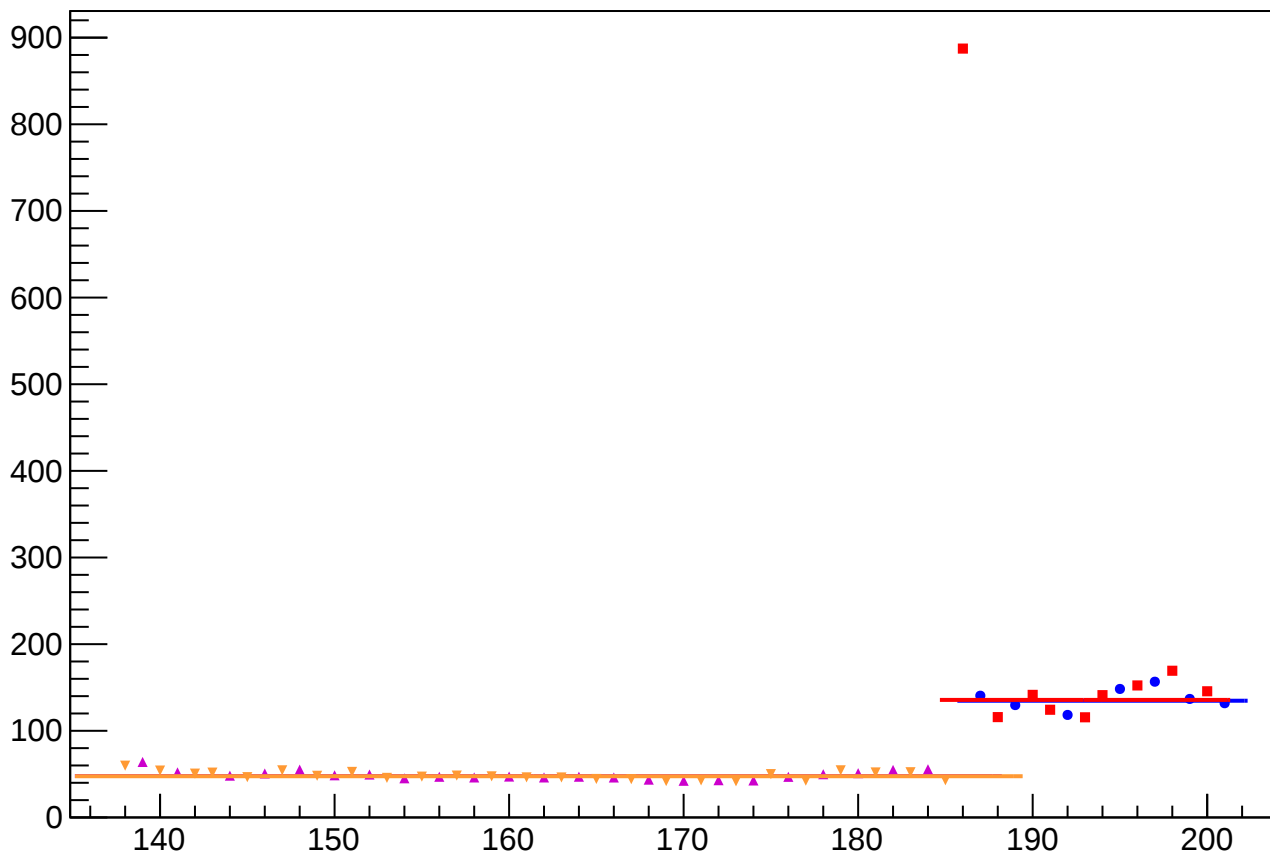
Right: -4.465 $\pm$ 42.695 χ^2 /NDF: 20.6/15

In: 44.792 $\pm$ 11.340 χ^2 /NDF:25.7/29

Out: 12.460 $\pm$ 10.955 χ^2 /NDF:51.0/33

All: 28.068 $\pm$ 7.879 χ^2 /NDF: 81.0/63

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 134.716 $\pm$ 0.044 χ^2 /NDF: 80534.7/6

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF:312874.8/24

Right Out: 135.658 $\pm$ 0.041 χ^2 /NDF: 730436.8/8

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

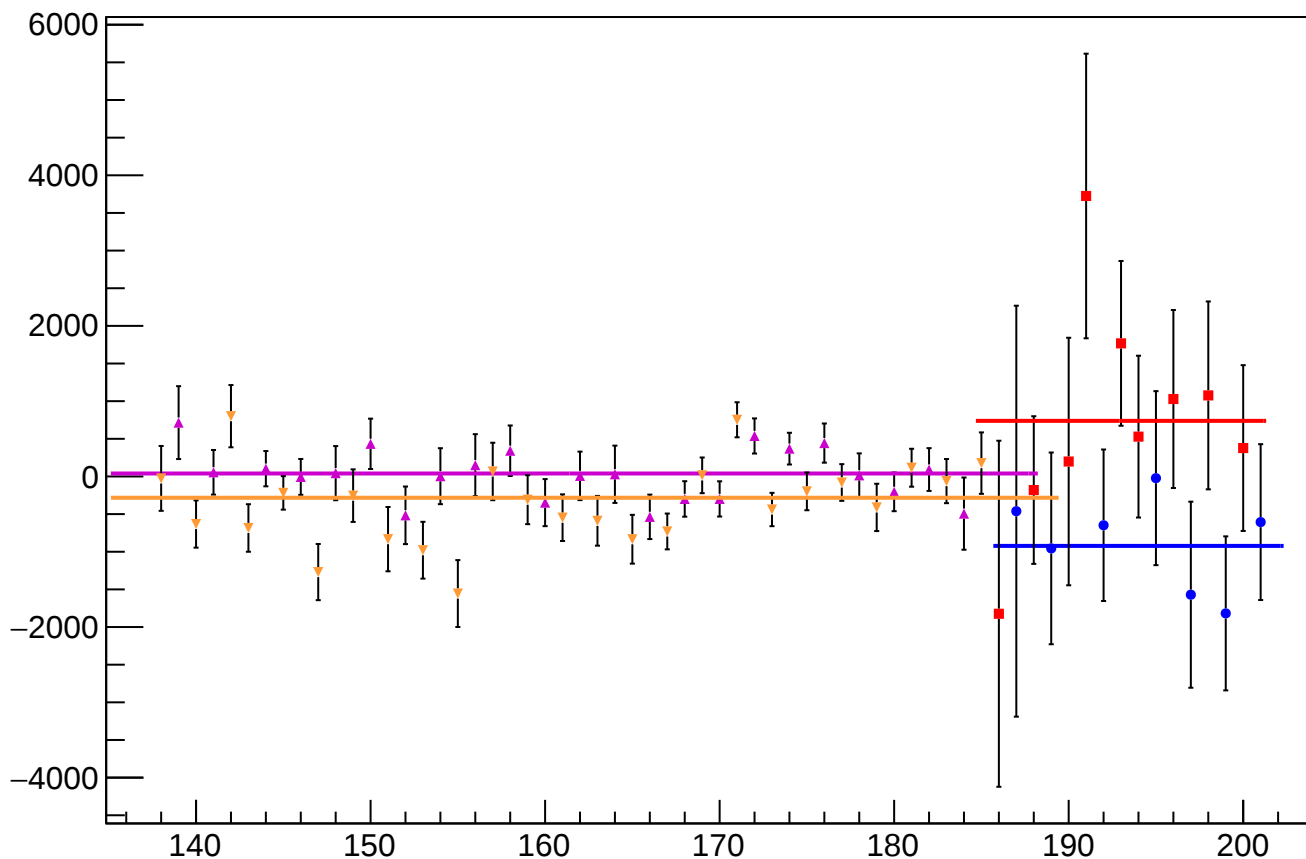
Right: 135.223 $\pm$ 0.030 χ^2 /NDF: 811213.5/15

In: 50.680 $\pm$ 0.008 χ^2 /NDF:4065550.3/29

Out: 50.704 $\pm$ 0.008 χ^2 /NDF:5457133.9/33

All: 50.692 $\pm$ 0.006 χ^2 /NDF: 9522689.0/63

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -922.305 ± 445.777 $\chi^2/\text{NDF}: 1.8/6$

Left Out: -282.798 ± 59.690 $\chi^2/\text{NDF}: 66.5/24$

Right Out: 738.533 ± 416.535 $\chi^2/\text{NDF}: 5.9/8$

Left In: 39.432 ± 60.759 $\chi^2/\text{NDF}: 27.5/22$

Left: -124.543 ± 42.580 $\chi^2/\text{NDF}: 108.4/47$

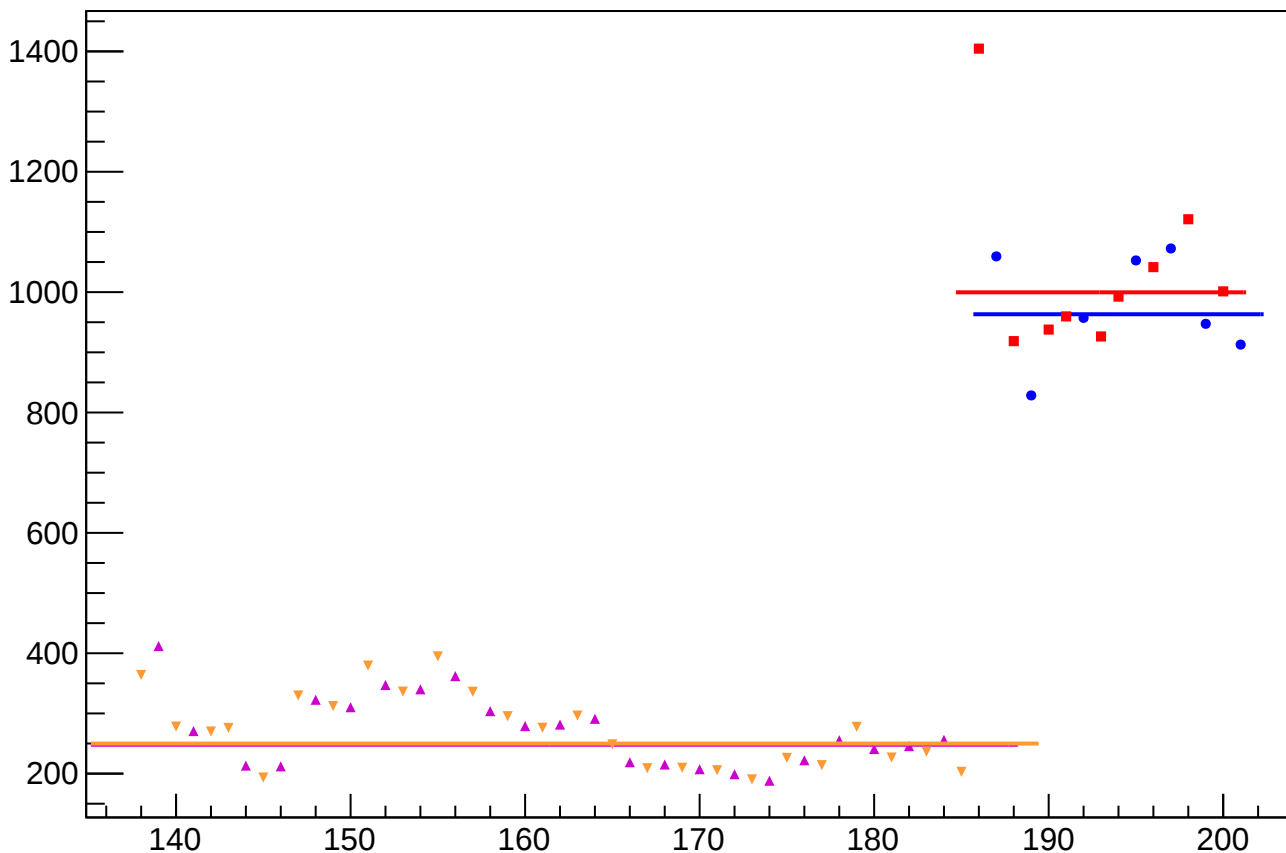
Right: -35.629 ± 304.348 $\chi^2/\text{NDF}: 15.1/15$

In: 21.891 ± 60.202 $\chi^2/\text{NDF}: 34.0/29$

Out: -262.247 ± 59.086 $\chi^2/\text{NDF}: 78.3/33$

All: -122.836 ± 42.169 $\chi^2/\text{NDF}: 123.6/63$

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 963.264+/-0.315 χ^2/NDF : 57841.8/6

Left Out: 249.956+/-0.042 χ^2/NDF : 1614205.9/24

Right Out: 999.686+/-0.295 χ^2/NDF : 110006.8/8

Left In: 247.917+/-0.043 χ^2/NDF : 1410847.5/22

Left: 248.955+/-0.030 χ^2/NDF : 3026200.1/47

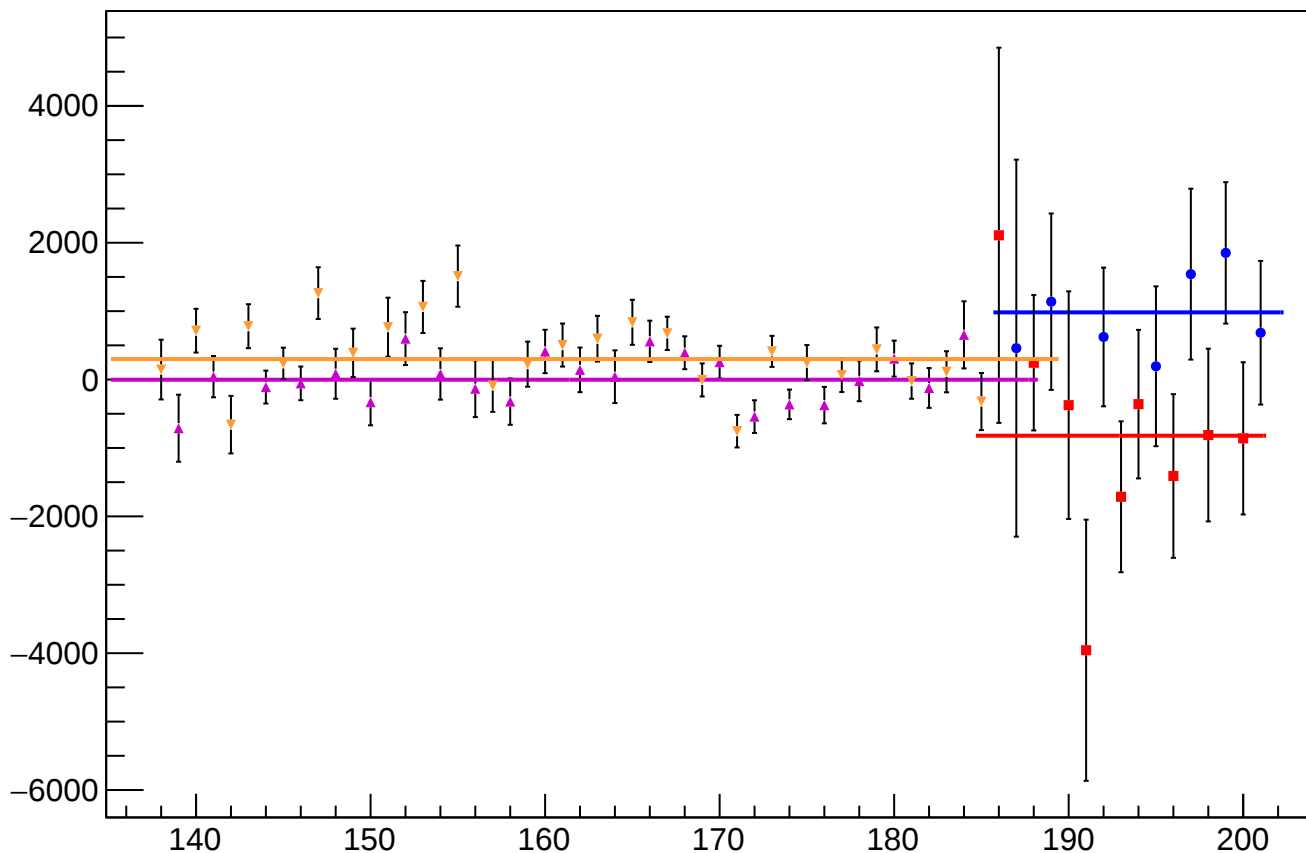
Right: 982.709+/-0.215 χ^2/NDF : 174976.3/15

In: 260.964+/-0.043 χ^2/NDF : 6525004.5/29

Out: 265.042+/-0.042 χ^2/NDF : 8073255.0/33

All: 263.041+/-0.030 χ^2/NDF : 14602935.3/63

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 982.005 $\pm$ 450.705 χ^2 /NDF: 1.6/6

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF:62.5/24

Right Out: -820.815 $\pm$ 422.787 χ^2 /NDF: 6.2/8

Left In: -2.185 $\pm$ 62.005 χ^2 /NDF:29.2/22

Left: 151.501 $\pm$ 43.433 χ^2 /NDF: 103.7/47

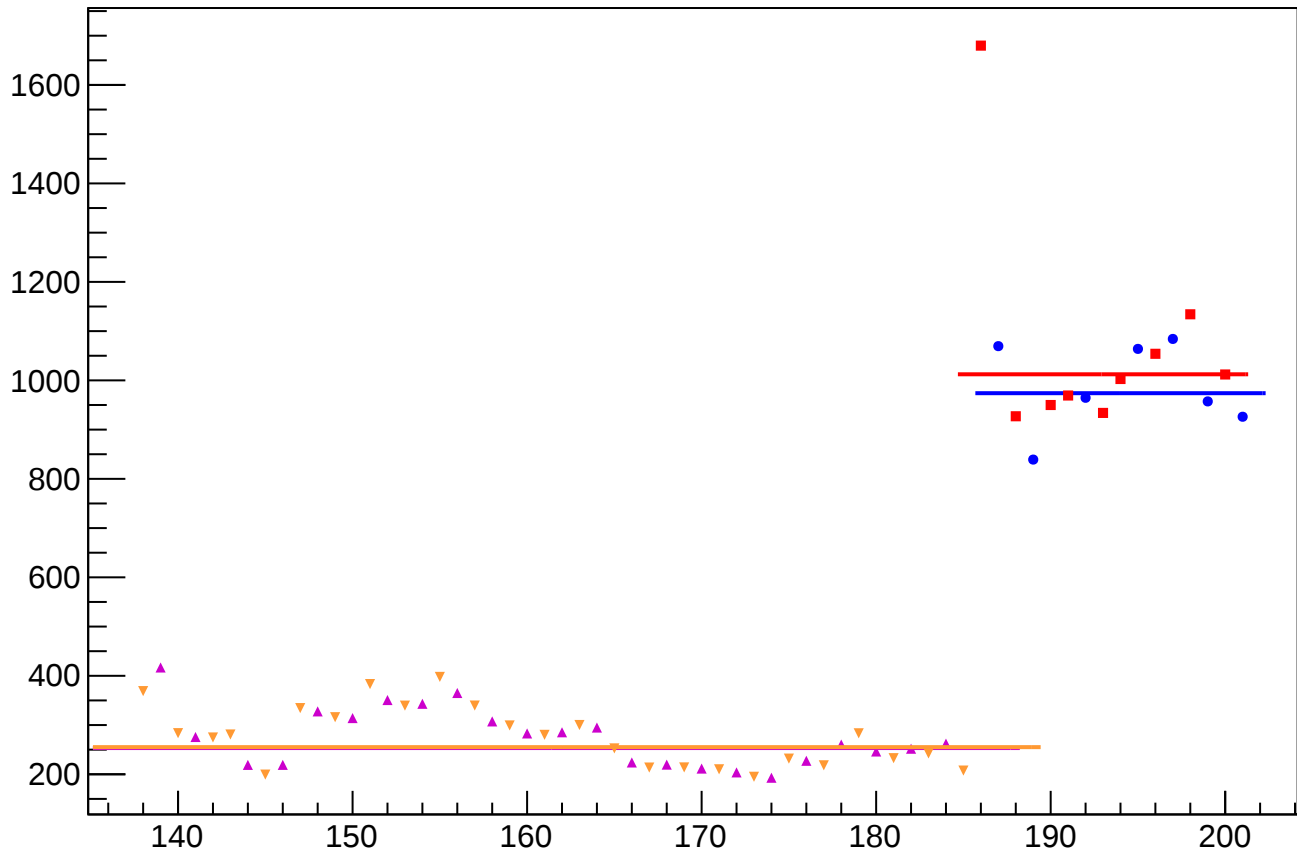
Right: 23.033 $\pm$ 308.353 χ^2 /NDF: 16.3/15

In: 16.096 $\pm$ 61.426 χ^2 /NDF:35.5/29

Out: 276.818 $\pm$ 60.239 χ^2 /NDF:75.5/33

All: 149.001 $\pm$ 43.009 χ^2 /NDF: 120.2/63

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 973.965 $\pm$ 0.319 χ^2/NDF : 56543.9/6

Left Out: 255.135 $\pm$ 0.043 χ^2/NDF :1542039.5/24

Right Out: 1012.340 $\pm$ 0.299 χ^2/NDF : 168494.4/8

Left In: 253.287 $\pm$ 0.044 χ^2/NDF :1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2/NDF : 2884606.5/47

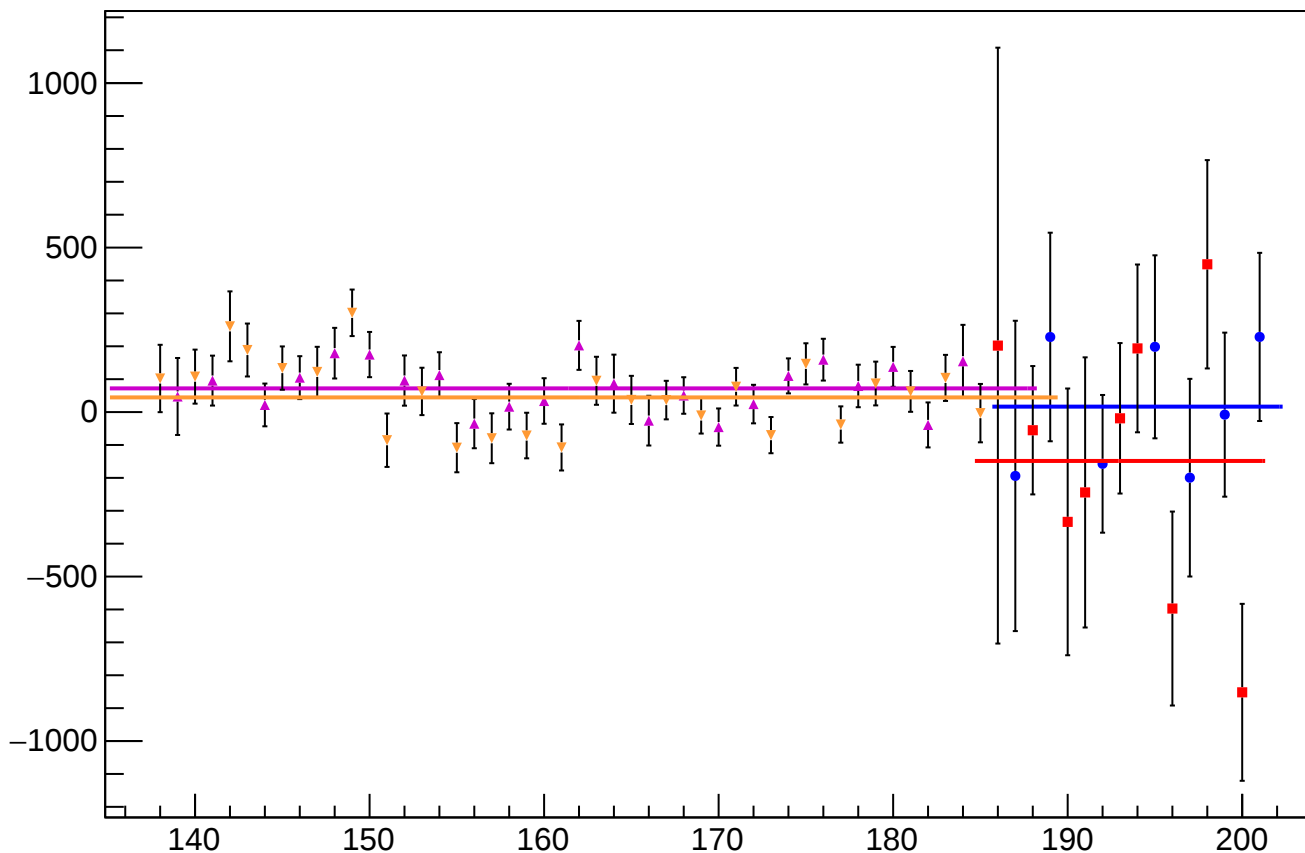
Right: 994.378 $\pm$ 0.218 χ^2/NDF : 232750.9/15

In: 266.674 $\pm$ 0.043 χ^2/NDF :6416829.3/29

Out: 270.507 $\pm$ 0.043 χ^2/NDF :7995551.1/33

All: 268.628 $\pm$ 0.030 χ^2/NDF : 14416350.7/63

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 16.562 $\pm$ 103.882 χ^2 /NDF: 3.0/6

Left Out: 44.602 $\pm$ 13.824 χ^2 /NDF: 53.9/24

Right Out: -148.551 $\pm$ 95.648 χ^2 /NDF: 15.5/8

Left In: 72.037 $\pm$ 14.296 χ^2 /NDF: 25.3/22

Left: 57.859 $\pm$ 9.938 χ^2 /NDF: 81.1/47

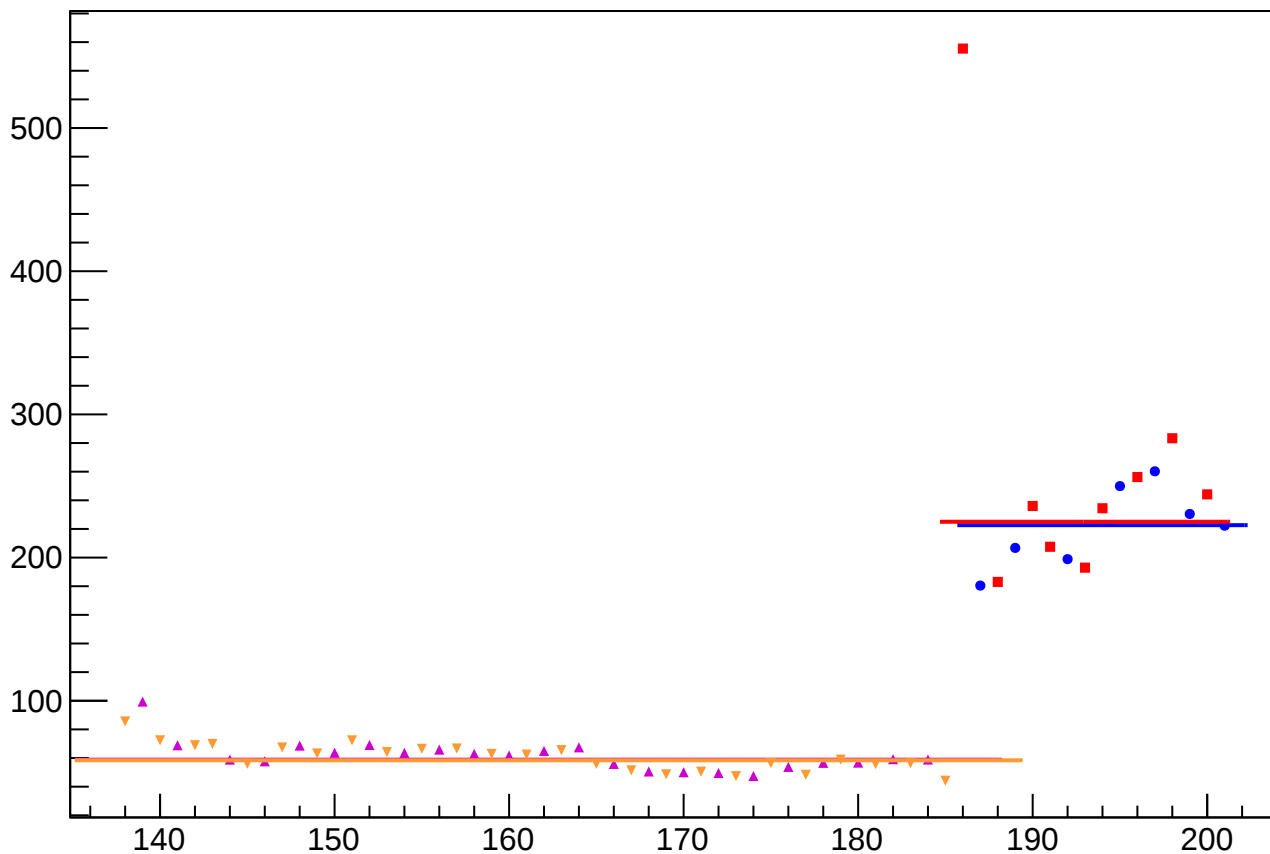
Right: -72.797 $\pm$ 70.364 χ^2 /NDF: 19.8/15

In: 71.006 $\pm$ 14.163 χ^2 /NDF: 28.6/29

Out: 40.649 $\pm$ 13.682 χ^2 /NDF: 73.4/33

All: 55.304 $\pm$ 9.840 χ^2 /NDF: 104.3/63

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 222.643 $\pm$ 0.073 χ^2 /NDF: 99283.1/6

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 225.021 $\pm$ 0.068 χ^2 /NDF: 506528.1/8

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

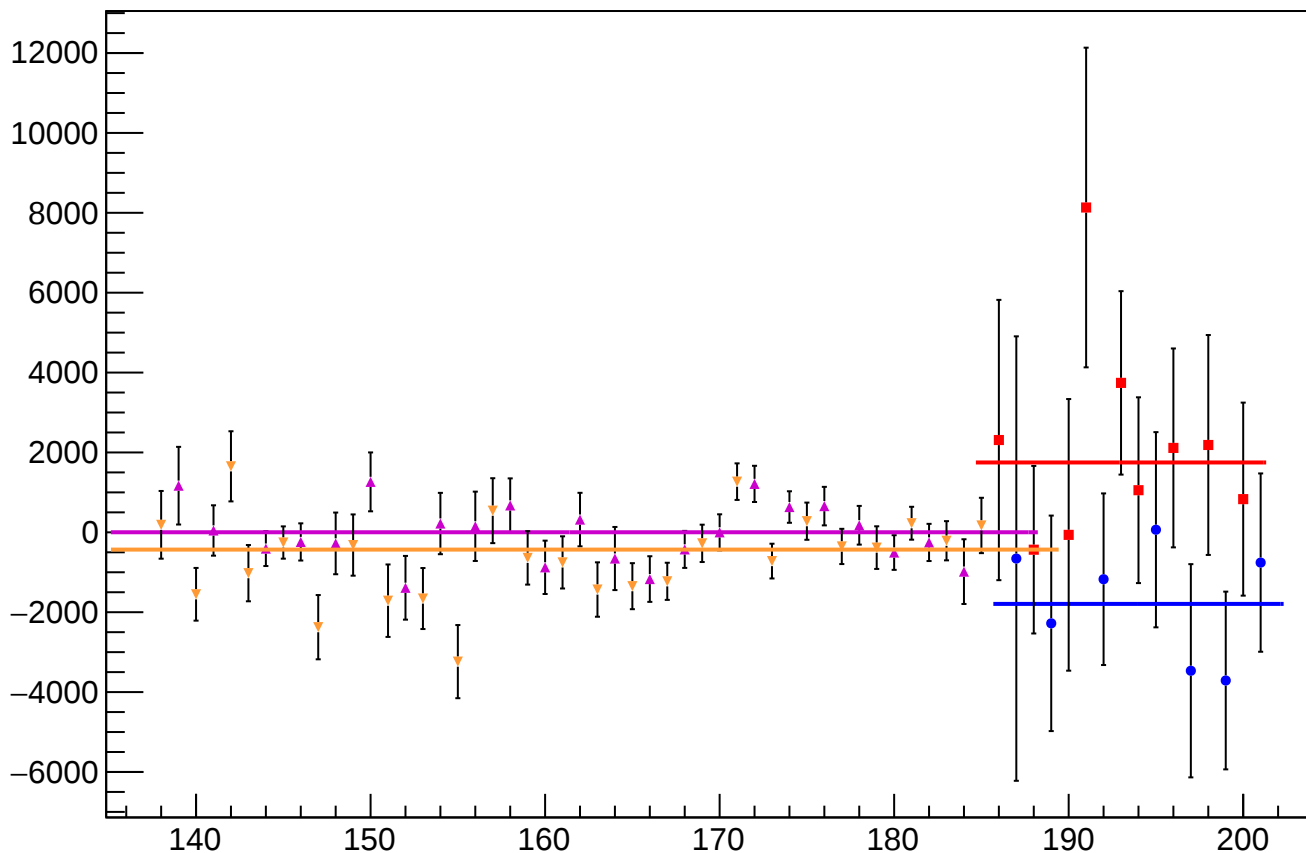
Right: 223.930 $\pm$ 0.050 χ^2 /NDF: 606378.3/15

In: 61.884 $\pm$ 0.010 χ^2 /NDF: 5659533.5/29

Out: 61.832 $\pm$ 0.010 χ^2 /NDF: 7240139.9/33

All: 61.857 $\pm$ 0.007 χ^2 /NDF: 12899687.6/63

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1792.140 $\pm$ 954.858 χ^2 /NDF: 2.1/6

Left Out: -432.330 $\pm$ 114.408 χ^2 /NDF:59.4/24

Right Out: 1749.068 $\pm$ 878.315 χ^2 /NDF: 5.0/8

Left In: 1.825 $\pm$ 116.459 χ^2 /NDF:32.3/22

Left: -219.109 $\pm$ 81.614 χ^2 /NDF: 98.8/47

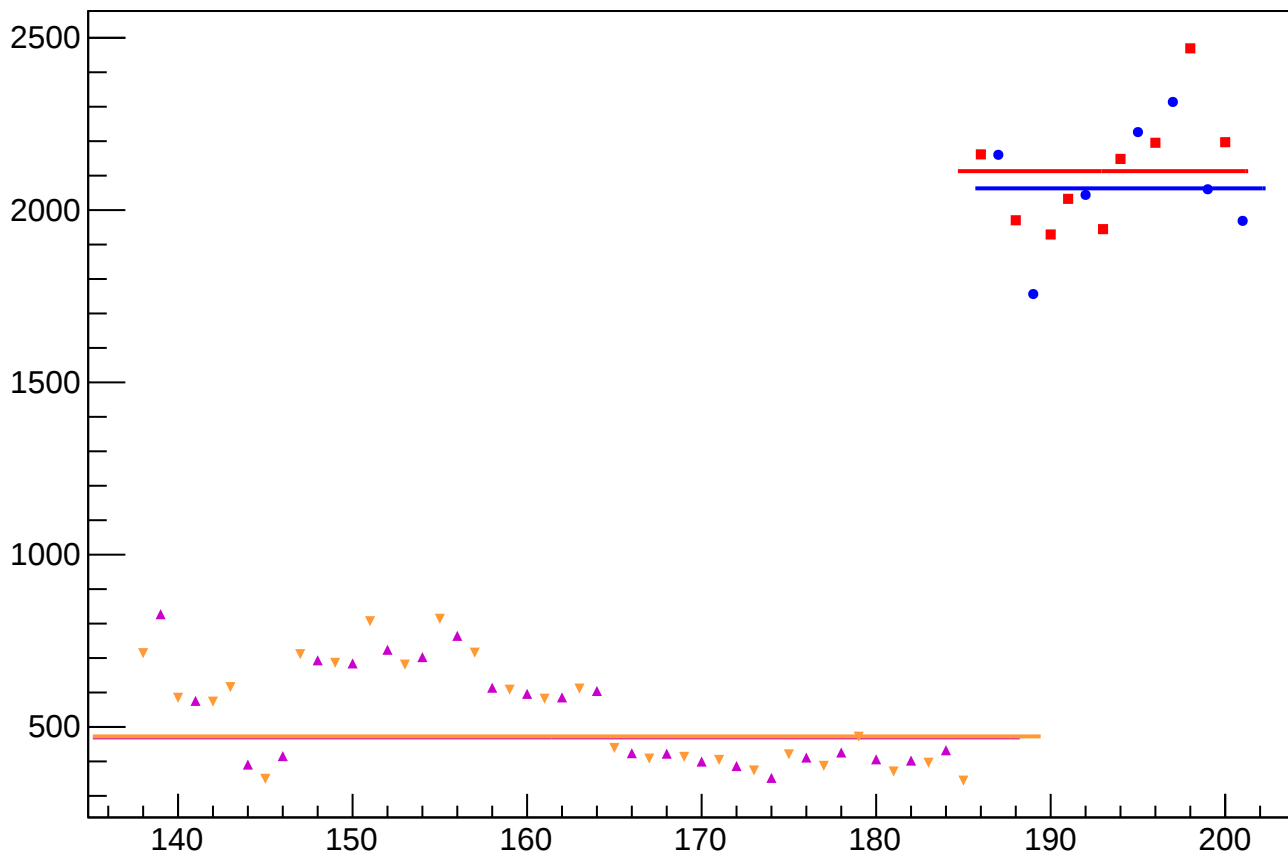
Right: 126.069 $\pm$ 646.431 χ^2 /NDF: 14.5/15

In: -24.470 $\pm$ 115.602 χ^2 /NDF:37.9/29

Out: -395.935 $\pm$ 113.450 χ^2 /NDF:70.4/33

All: -213.693 $\pm$ 80.971 χ^2 /NDF: 113.6/63

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 2063.075+/-0.675 χ^2/NDF : 56768.2/6

Left Out: 472.569+/-0.081 χ^2/NDF : 2508168.9/24

Right Out: 2113.024+/-0.621 χ^2/NDF : 65599.0/8

Left In: 469.761+/-0.082 χ^2/NDF : 2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

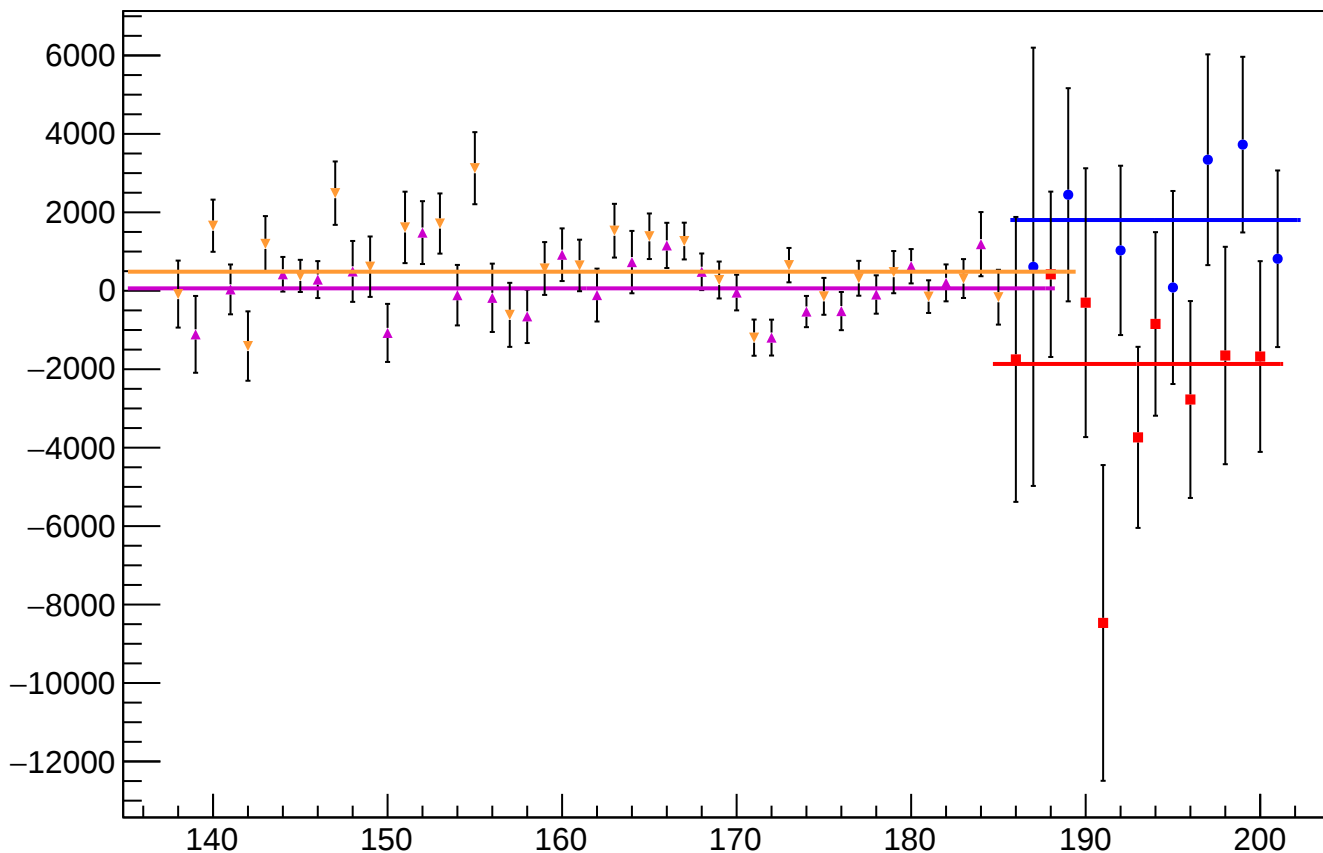
Right: 2090.132+/-0.457 χ^2/NDF : 125331.7/15

In: 493.115+/-0.082 χ^2/NDF : 7660743.0/29

Out: 499.939+/-0.080 χ^2/NDF : 9434201.9/33

All: 496.591+/-0.057 χ^2/NDF : 17098494.6/63

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1804.181+/-961.154 χ^2/NDF : 2.0/6

Left Out: 486.645+/-115.346 χ^2/NDF :56.0/24

Right Out: -1865.671+/-885.282 χ^2/NDF : 5.1/8

Left In: 61.775+/-117.449 χ^2/NDF :31.2/22

Left: 278.047+/-82.295 χ^2/NDF : 93.8/47

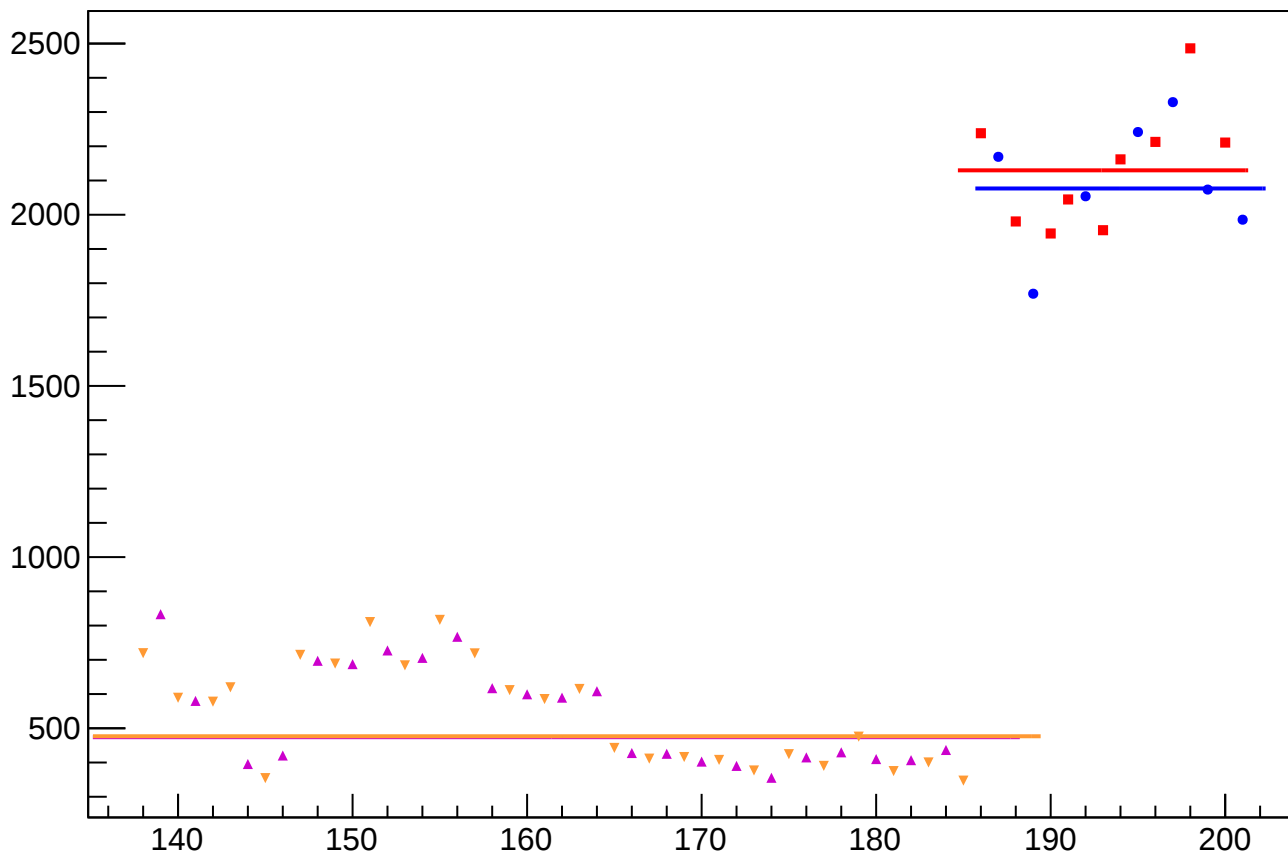
Right: -181.289+/-651.162 χ^2/NDF : 14.9/15

In: 87.409+/-116.582 χ^2/NDF :36.4/29

Out: 447.378+/-114.379 χ^2/NDF :68.0/33

All: 270.826+/-81.646 χ^2/NDF : 109.3/63

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 2076.719 $\pm$ 0.680 χ^2 /NDF: 56248.7/6

Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF: 2472737.6/24

Right Out: 2129.708 $\pm$ 0.626 χ^2 /NDF: 67824.8/8

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

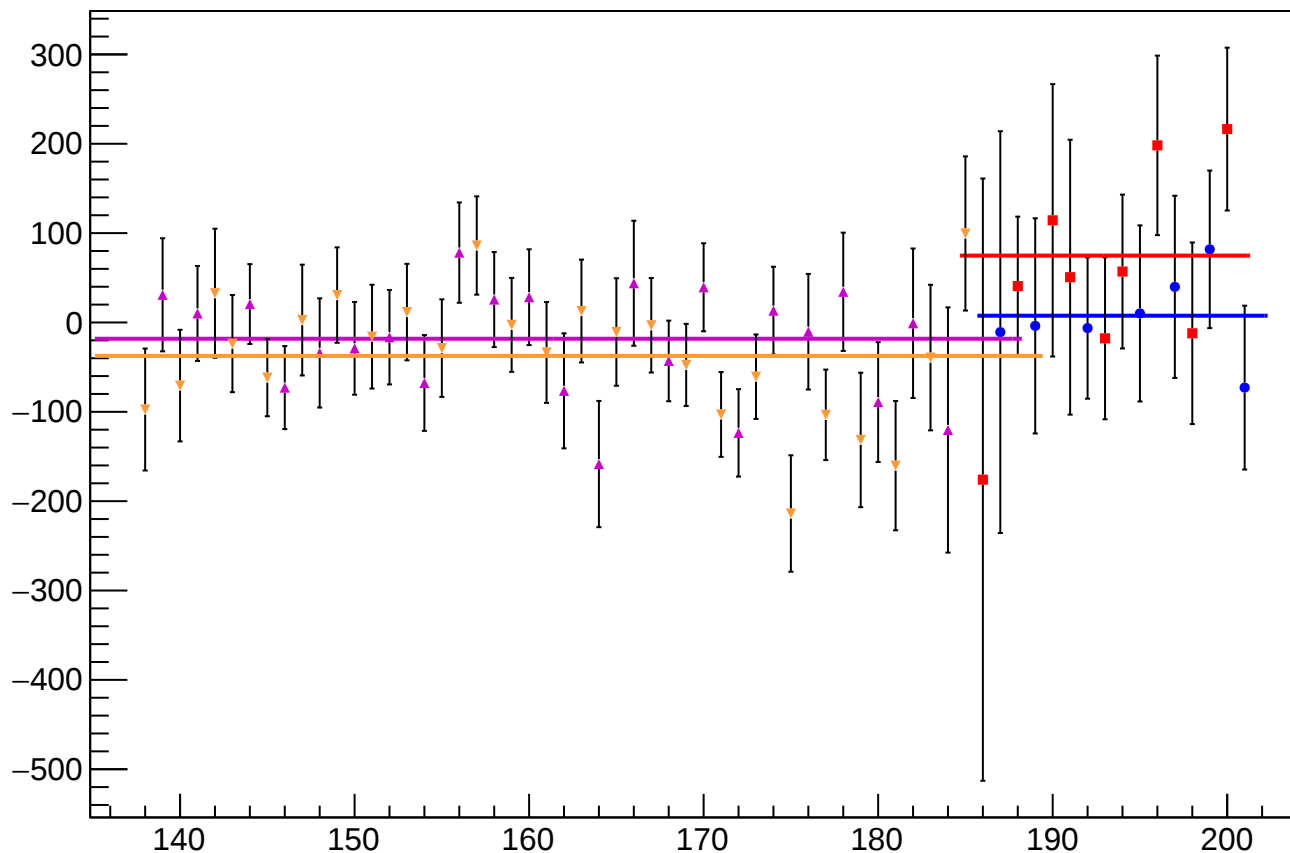
Right: 2105.387 $\pm$ 0.460 χ^2 /NDF: 127362.3/15

In: 497.563 $\pm$ 0.082 χ^2 /NDF: 7622735.8/29

Out: 504.284 $\pm$ 0.081 χ^2 /NDF: 9397202.3/33

All: 500.987 $\pm$ 0.058 χ^2 /NDF: 17023324.8/63

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 7.568 $\pm$ 37.918 χ^2/NDF : 1.6/6

Left Out: -37.413 $\pm$ 11.390 χ^2/NDF : 30.5/24

Right Out: 74.837 $\pm$ 34.654 χ^2/NDF : 6.6/8

Left In: -18.210 $\pm$ 11.788 χ^2/NDF : 23.0/22

Left: -28.141 $\pm$ 8.191 χ^2/NDF : 54.8/47

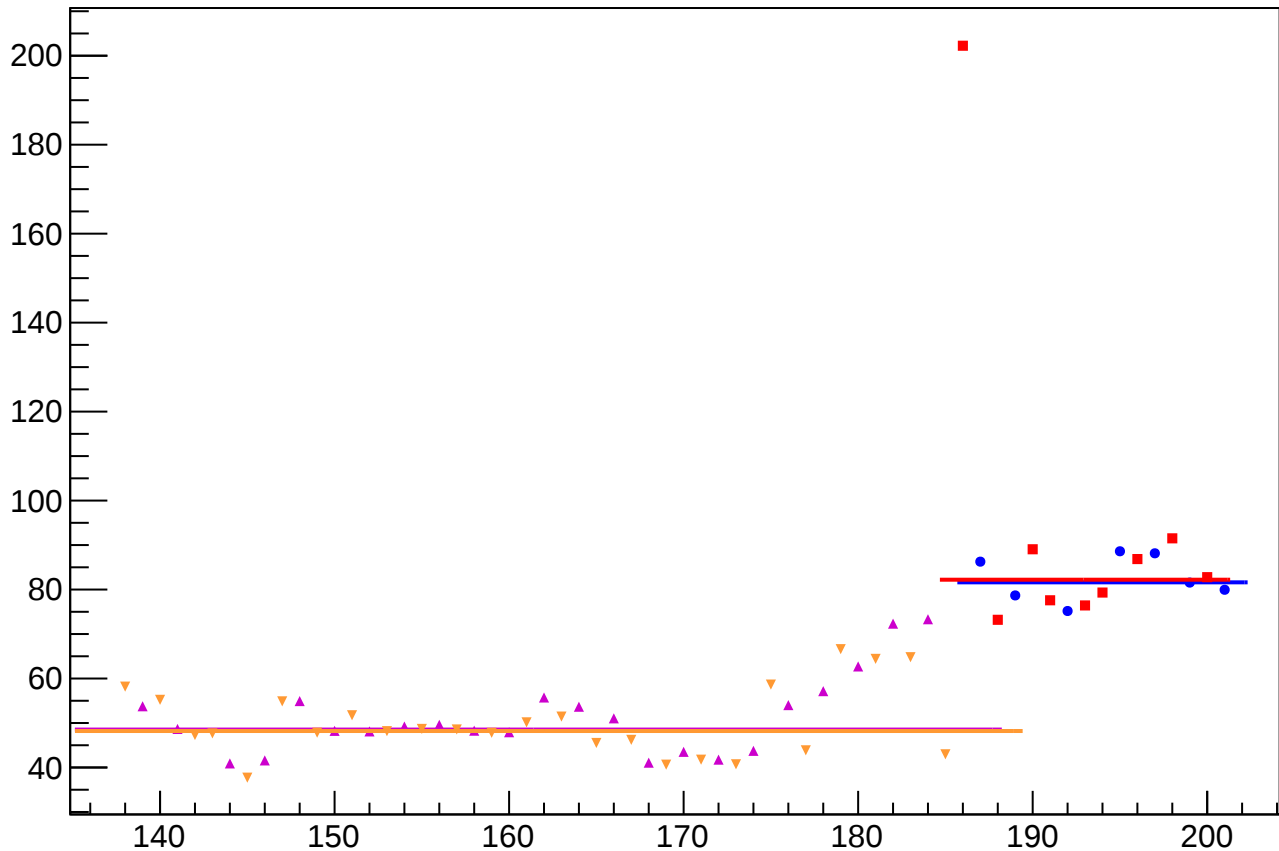
Right: 44.221 $\pm$ 25.580 χ^2/NDF : 9.9/15

In: -15.938 $\pm$ 11.256 χ^2/NDF : 25.0/29

Out: -26.470 $\pm$ 10.820 χ^2/NDF : 46.5/33

All: -21.412 $\pm$ 7.801 χ^2/NDF : 72.0/63

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 81.620 $\pm$ 0.027 χ^2 /NDF: 34239.8/6

Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24

Right Out: 82.212 $\pm$ 0.025 χ^2 /NDF: 317897.0/8

Left In: 48.527 $\pm$ 0.008 χ^2 /NDF: 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2 /NDF: 1426333.4/47

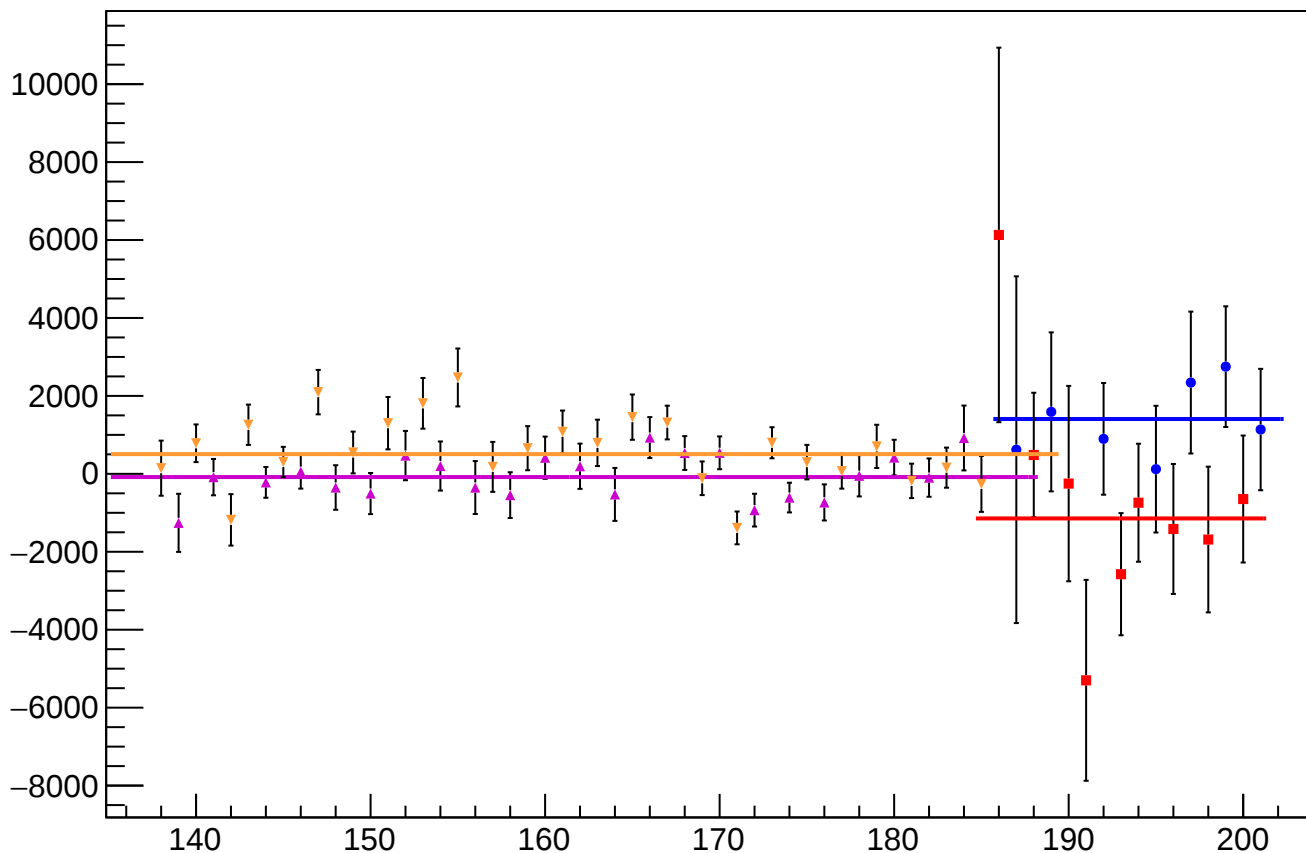
Right: 81.943 $\pm$ 0.018 χ^2 /NDF: 352402.3/15

In: 51.443 $\pm$ 0.008 χ^2 /NDF: 2098791.2/29

Out: 51.515 $\pm$ 0.008 χ^2 /NDF: 2806853.3/33

All: 51.481 $\pm$ 0.006 χ^2 /NDF: 4905687.4/63

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1407.608 $\pm$ 661.307 χ^2 /NDF: 1.8/6

Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF: 65.7/24

Right Out: -1144.663 $\pm$ 618.925 χ^2 /NDF: 7.2/8

Left In: -82.421 $\pm$ 105.935 χ^2 /NDF: 25.3/22

Left: 218.827 $\pm$ 74.020 χ^2 /NDF: 106.9/47

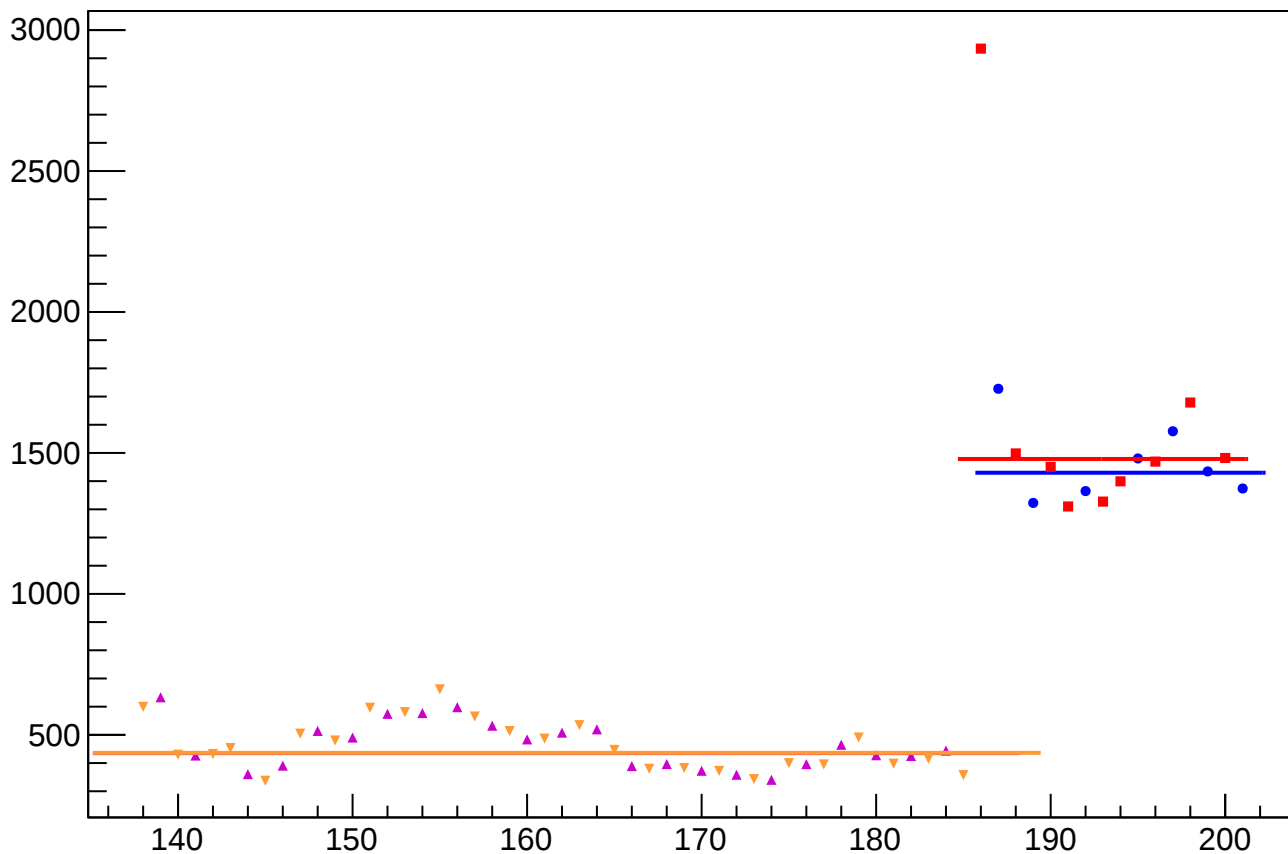
Right: 47.071 $\pm$ 451.887 χ^2 /NDF: 16.9/15

In: -45.142 $\pm$ 104.602 χ^2 /NDF: 32.1/29

Out: 461.323 $\pm$ 102.051 χ^2 /NDF: 79.8/33

All: 214.339 $\pm$ 73.046 χ^2 /NDF: 123.9/63

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1429.844+/-0.468 χ^2/NDF : 36202.4/6

Left Out: 436.301+/-0.073 χ^2/NDF : 1179348.4/24

Right Out: 1478.665+/-0.438 χ^2/NDF : 239673.7/8

Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

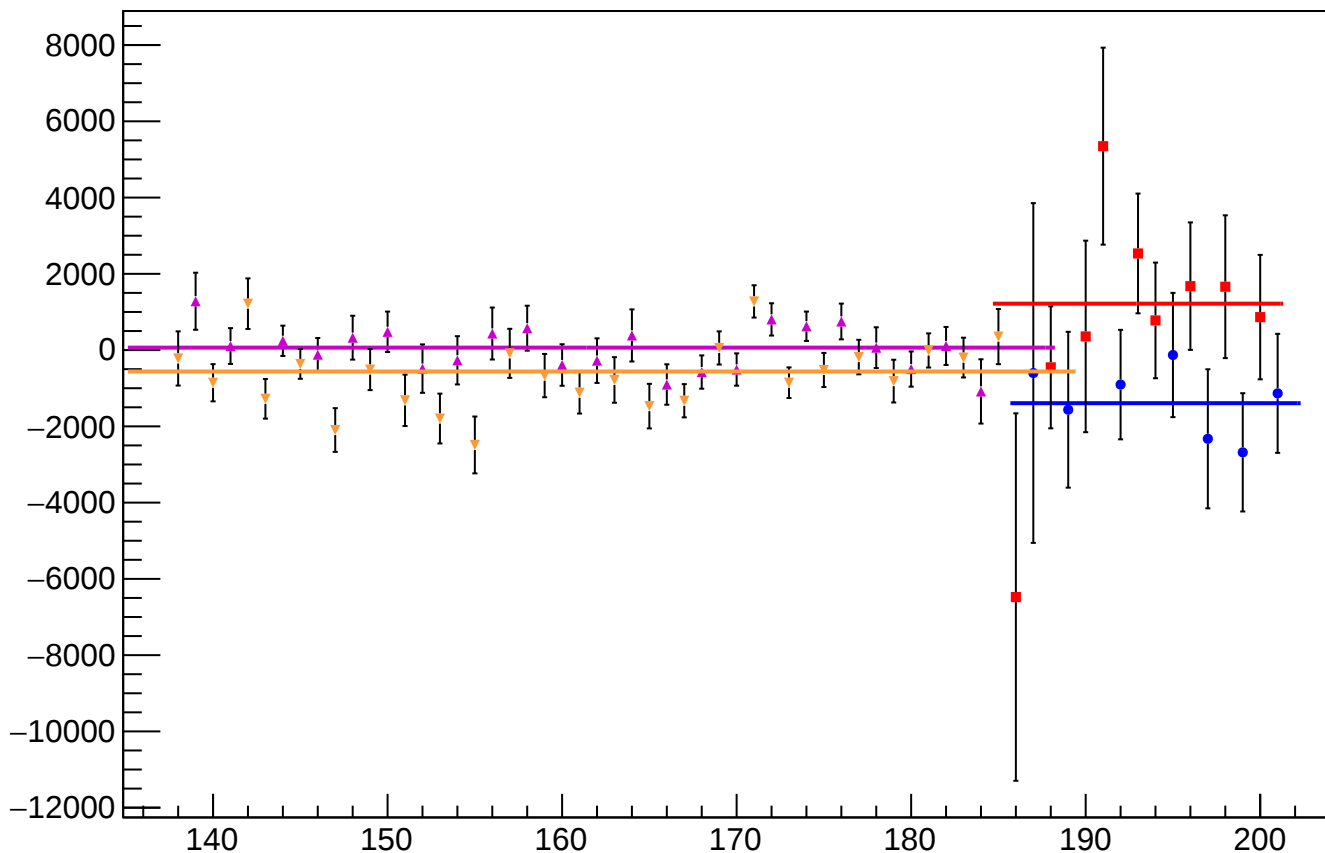
Right: 1455.869+/-0.320 χ^2/NDF : 281686.6/15

In: 460.158+/-0.074 χ^2/NDF : 5474430.2/29

Out: 464.640+/-0.072 χ^2/NDF : 6937535.8/33

All: 462.455+/-0.052 χ^2/NDF : 12413847.5/63

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1392.189 $\pm$ 662.494 χ^2 /NDF: 1.7/6

Left Out: -560.684 $\pm$ 104.207 χ^2 /NDF:61.8/24

Right Out: 1217.925 $\pm$ 620.004 χ^2 /NDF: 7.3/8

Left In: 64.594 $\pm$ 106.708 χ^2 /NDF:25.2/22

Left: -255.457 $\pm$ 74.554 χ^2 /NDF: 104.5/47

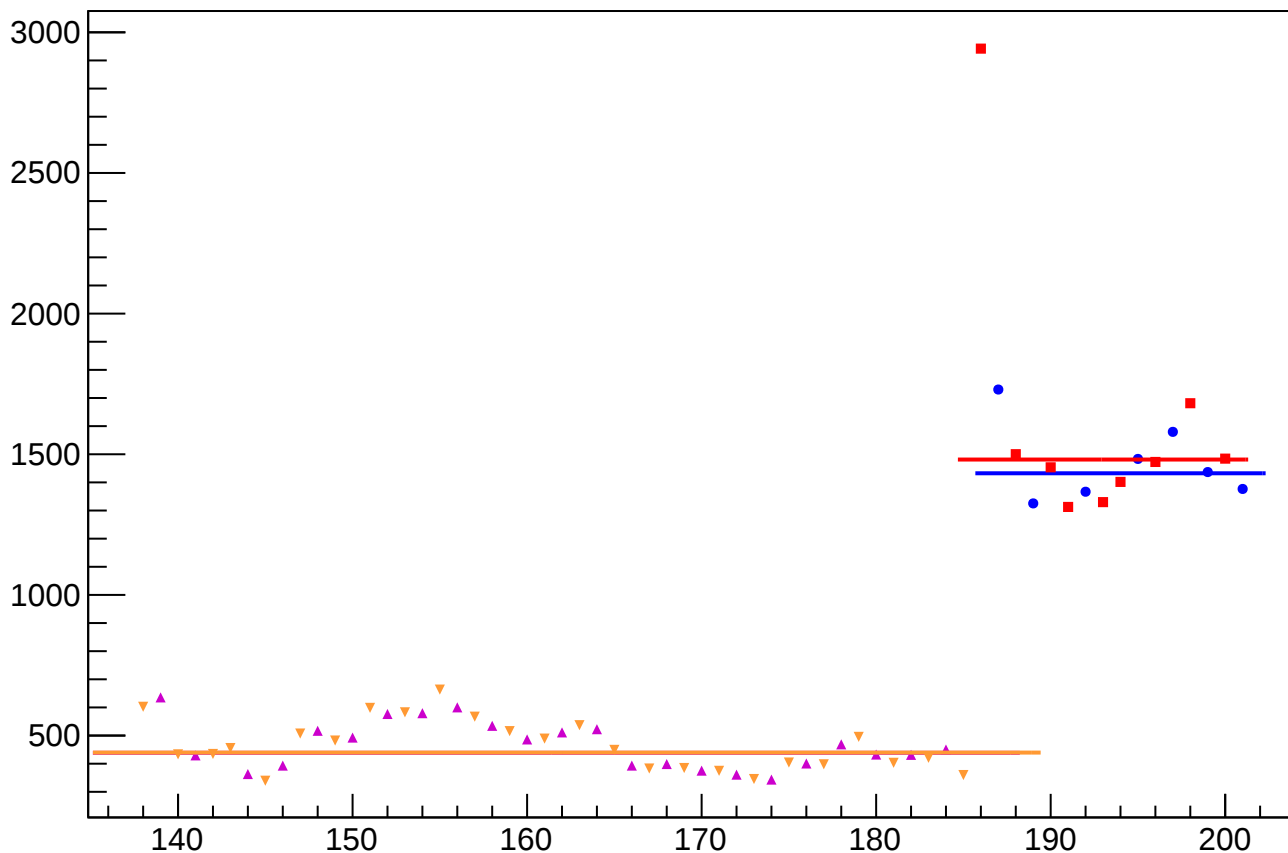
Right: -0.752 $\pm$ 452.685 χ^2 /NDF: 17.3/15

In: 27.756 $\pm$ 105.350 χ^2 /NDF:31.6/29

Out: -511.820 $\pm$ 102.766 χ^2 /NDF:77.0/33

All: -248.730 $\pm$ 73.563 χ^2 /NDF: 122.1/63

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1432.416+/-0.468 χ^2/NDF : 36163.0/6

Left Out: 439.527+/-0.074 χ^2/NDF :1163352.8/24

Right Out: 1481.240+/-0.438 χ^2/NDF : 239841.8/8

Left In: 438.548+/-0.075 χ^2/NDF :1013071.4/22

Left: 439.049+/-0.053 χ^2/NDF : 2176510.4/47

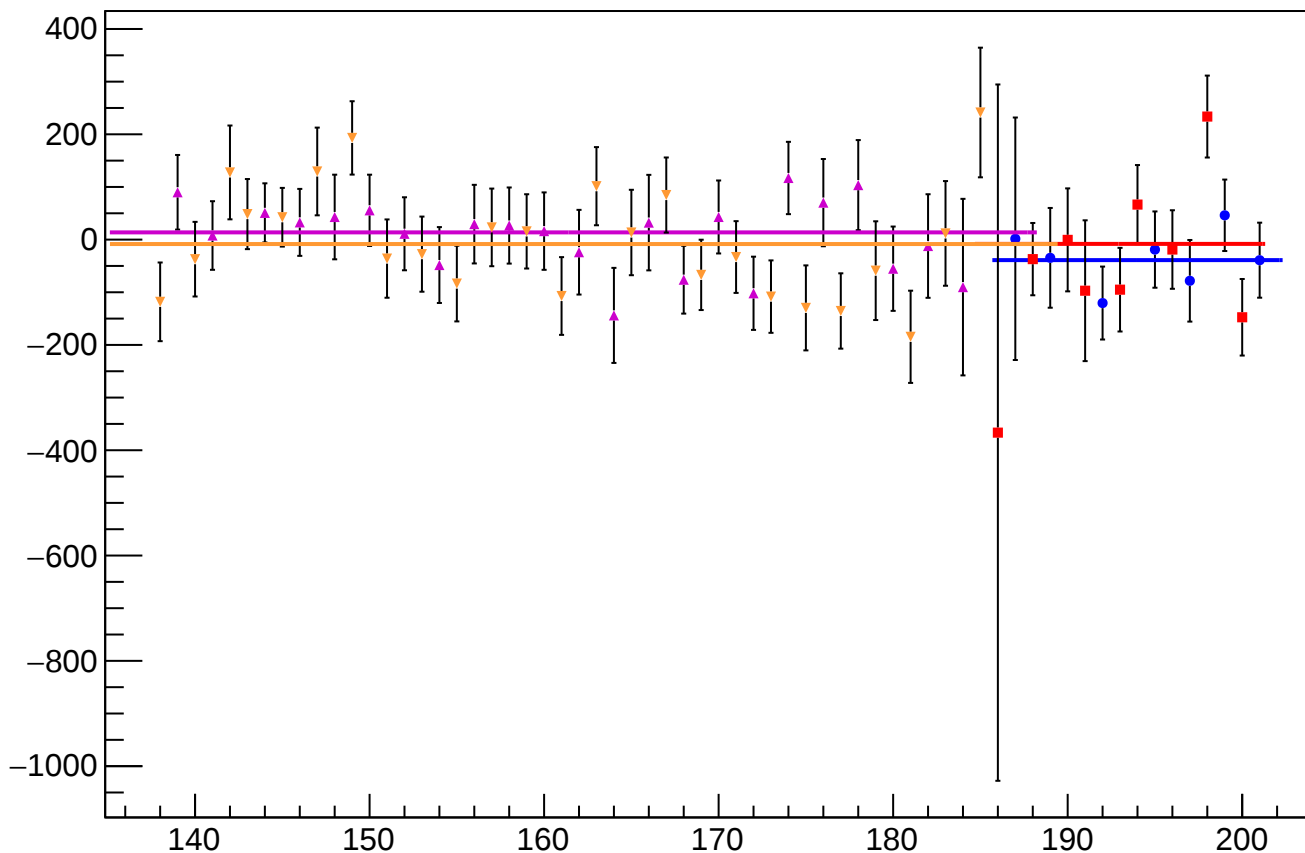
Right: 1458.444+/-0.320 χ^2/NDF : 281795.5/15

In: 463.680+/-0.074 χ^2/NDF :5436569.9/29

Out: 468.146+/-0.073 χ^2/NDF :6894043.0/33

All: 465.968+/-0.052 χ^2/NDF : 12332454.7/63

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -38.945 ± 30.013 χ^2/NDF : 3.3/6

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: -8.132 ± 28.338 χ^2/NDF : 16.5/8

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

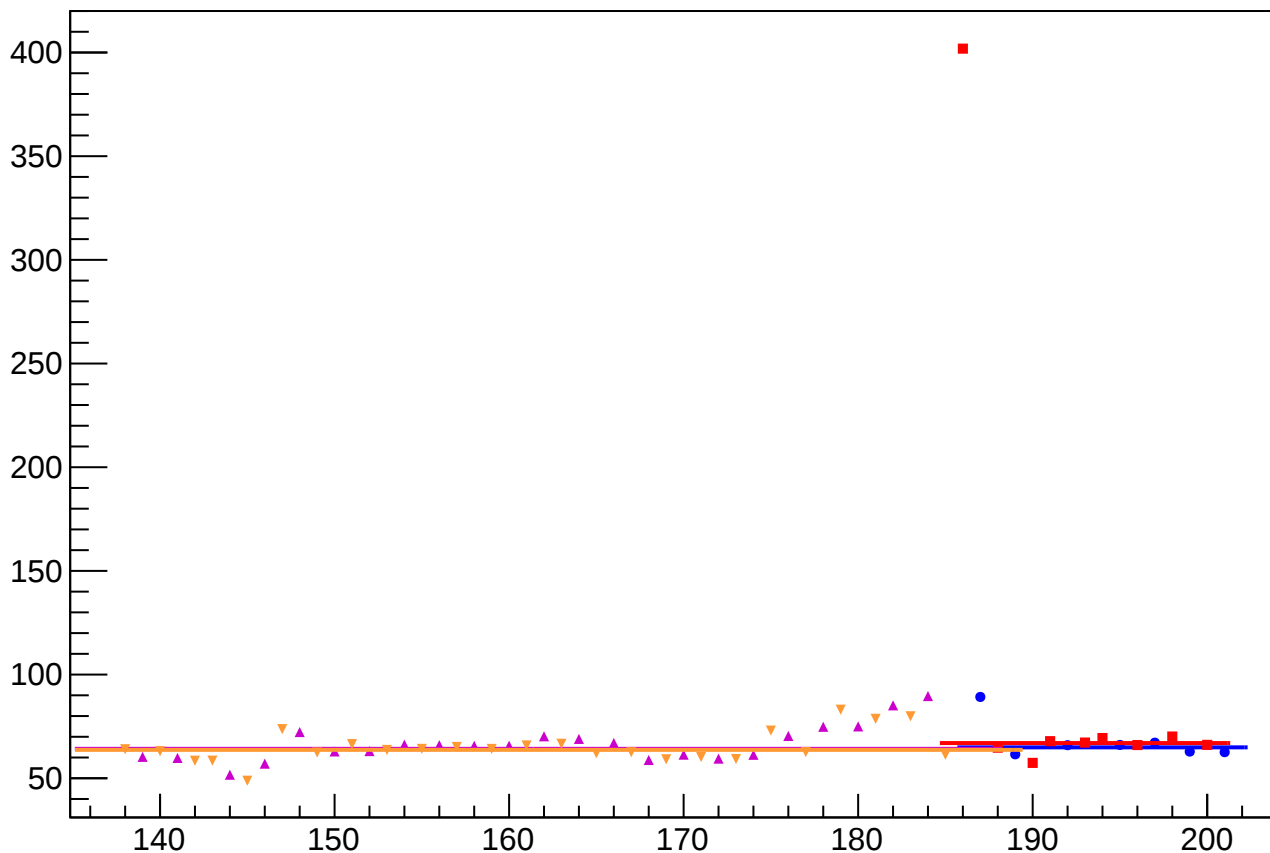
Right: -22.655 ± 20.605 χ^2/NDF : 20.3/15

In: 2.658 ± 13.756 χ^2/NDF : 22.0/29

Out: -8.354 ± 13.212 χ^2/NDF : 58.1/33

All: -3.070 ± 9.529 χ^2/NDF : 80.4/63

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 64.901 $\pm$ 0.021 χ^2 /NDF: 31406.8/6

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 66.970 $\pm$ 0.020 χ^2 /NDF: 540357.8/8

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

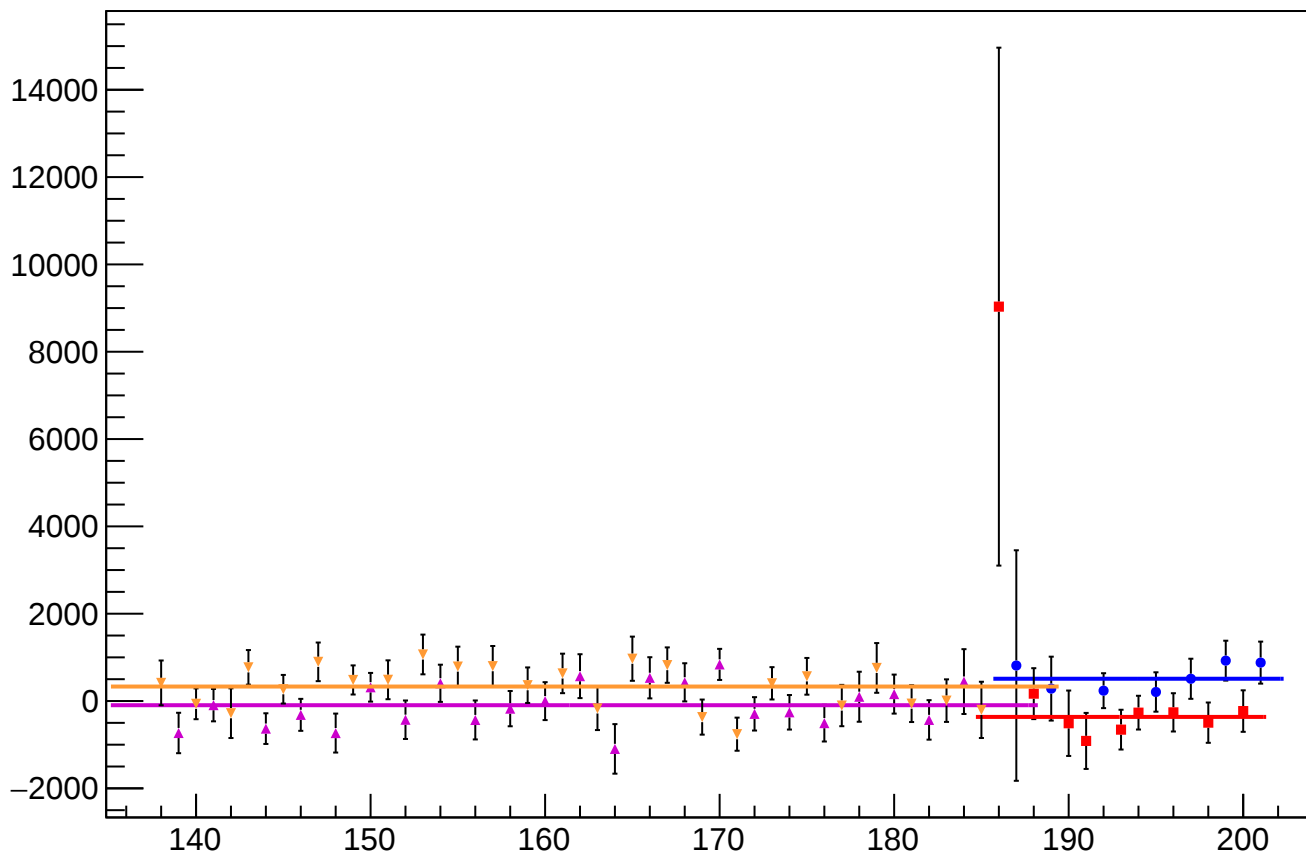
Right: 65.995 $\pm$ 0.015 χ^2 /NDF: 576789.9/15

In: 64.339 $\pm$ 0.010 χ^2 /NDF: 461966.8/29

Out: 64.408 $\pm$ 0.009 χ^2 /NDF: 1009695.6/33

All: 64.375 $\pm$ 0.007 χ^2 /NDF: 1471688.6/63

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 510.338+/-192.310 χ^2/NDF : 2.4/6

Left Out: 331.739+/-86.071 χ^2/NDF : 29.9/24

Right Out: -363.842+/-174.052 χ^2/NDF : 4.8/8

Left In: -95.910+/-88.656 χ^2/NDF : 28.7/22

Left: 124.240+/-61.755 χ^2/NDF : 70.5/47

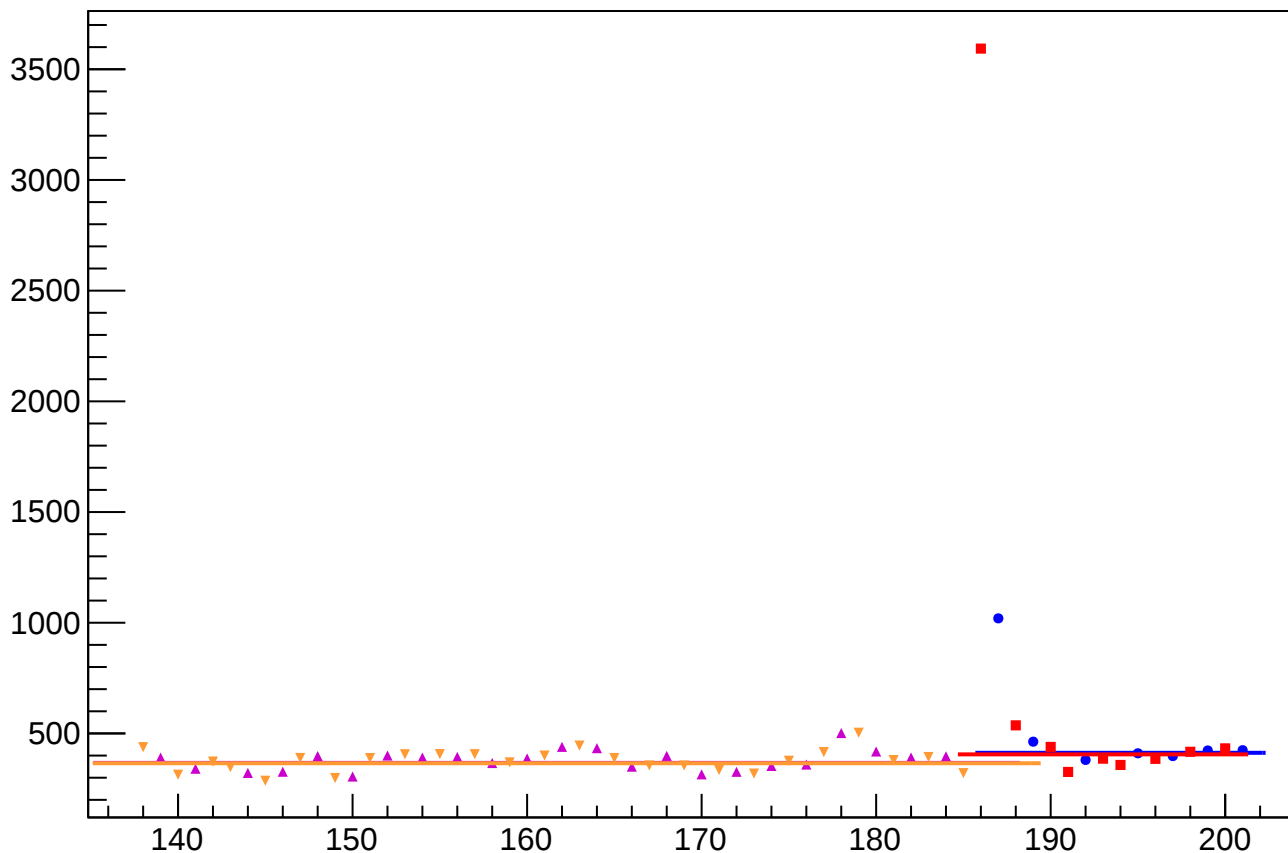
Right: 29.789+/-129.047 χ^2/NDF : 18.6/15

In: 10.350+/-80.512 χ^2/NDF : 39.3/29

Out: 195.062+/-77.153 χ^2/NDF : 47.5/33

All: 106.640+/-55.705 χ^2/NDF : 89.6/63

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 412.518 $\pm$ 0.136 χ^2 /NDF: 132632.0/6

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 405.426 $\pm$ 0.123 χ^2 /NDF: 759755.6/8

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

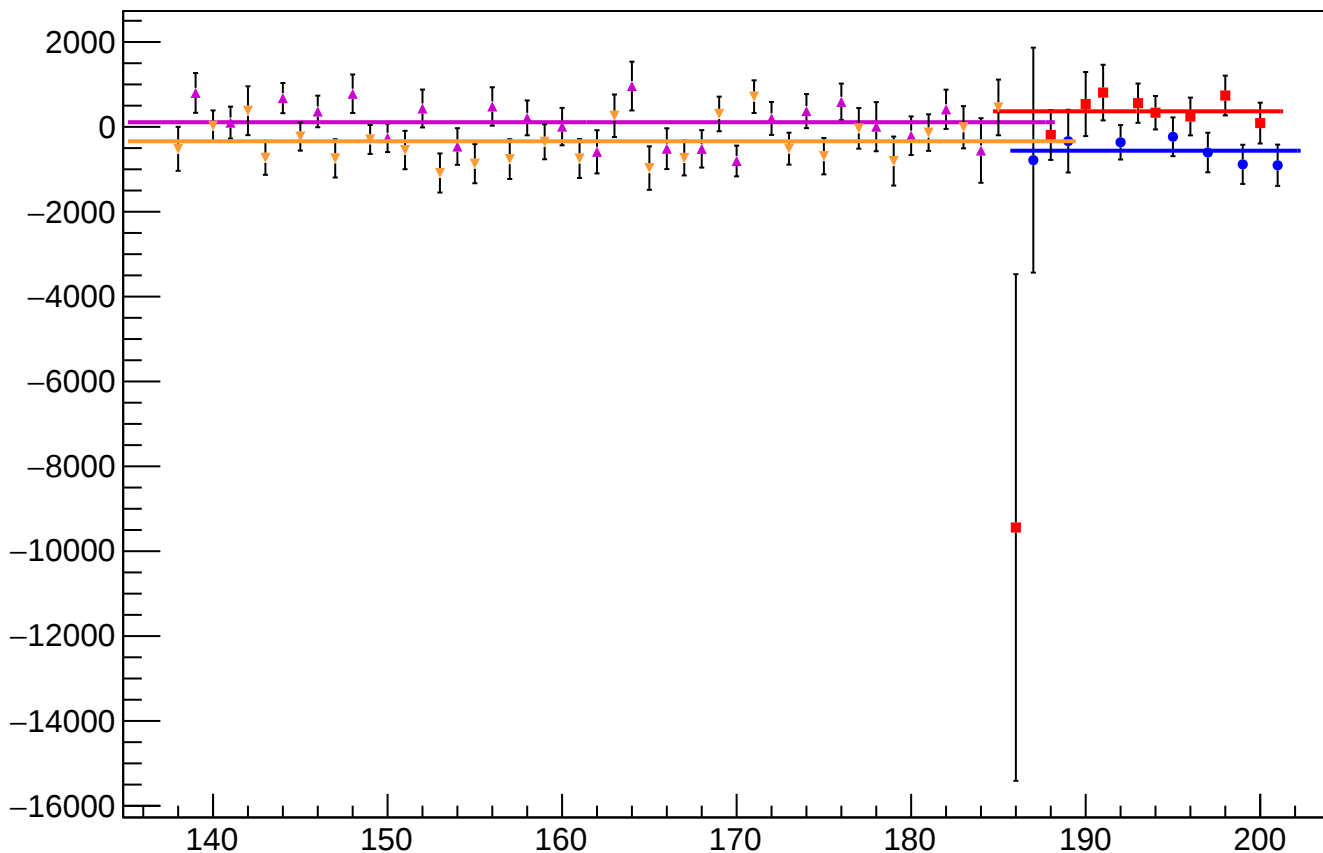
Right: 408.620 $\pm$ 0.091 χ^2 /NDF: 893882.8/15

In: 374.916 $\pm$ 0.057 χ^2 /NDF: 703426.9/29

Out: 373.229 $\pm$ 0.055 χ^2 /NDF: 1463386.7/33

All: 374.037 $\pm$ 0.039 χ^2 /NDF: 2167271.5/63

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -561.644+/-194.791 χ^2/NDF : 1.8/6

Left Out: -338.528+/-87.450 χ^2/NDF :28.2/24

Right Out: 366.660+/-176.630 χ^2/NDF : 5.3/8

Left In: 110.341+/-90.084 χ^2/NDF :29.2/22

Left: -120.751+/-62.747 χ^2/NDF : 70.2/47

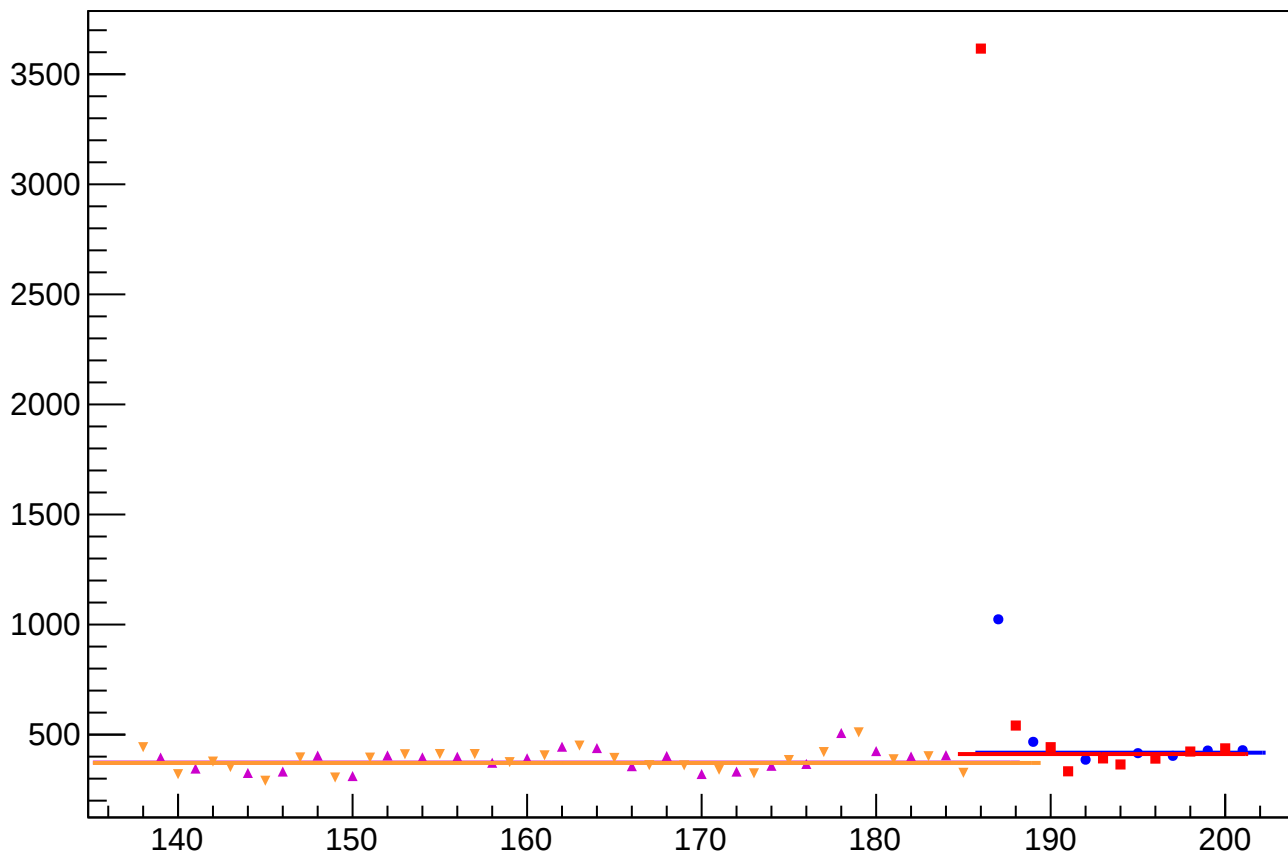
Right: -52.212+/-130.847 χ^2/NDF : 19.6/15

In: -8.057+/-81.764 χ^2/NDF :40.9/29

Out: -199.698+/-78.371 χ^2/NDF :46.3/33

All: -107.936+/-56.578 χ^2/NDF : 90.1/63

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 417.947 $\pm$ 0.138 χ^2 /NDF: 129671.6/6

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 411.691 $\pm$ 0.125 χ^2 /NDF: 749391.4/8

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

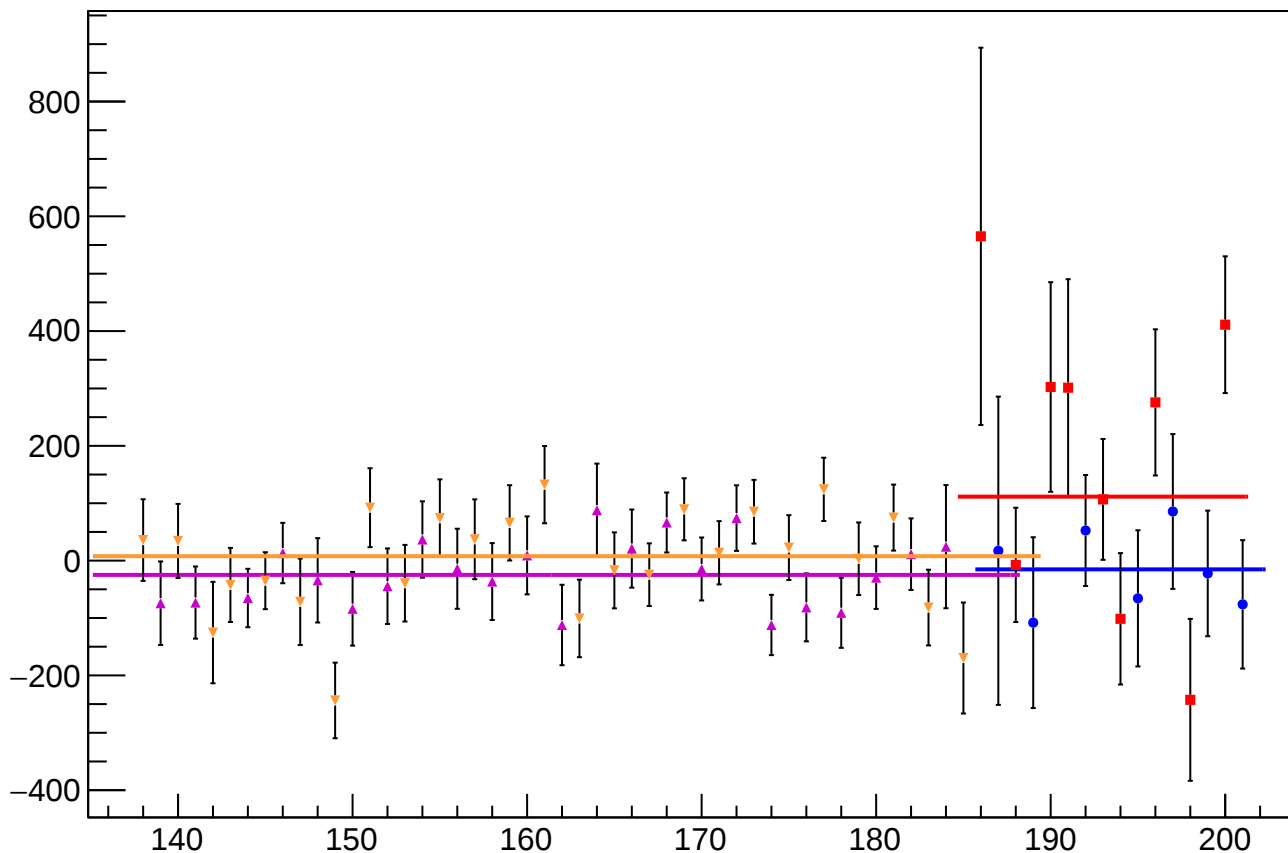
Right: 414.514 $\pm$ 0.093 χ^2 /NDF: 880195.3/15

In: 380.868 $\pm$ 0.058 χ^2 /NDF: 684980.8/29

Out: 379.297 $\pm$ 0.055 χ^2 /NDF: 1437223.8/33

All: 380.049 $\pm$ 0.040 χ^2 /NDF: 2122589.6/63

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -15.224 ± 46.864 $\chi^2/\text{NDF}: 1.9/6$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 111.495 ± 43.985 $\chi^2/\text{NDF}: 23.2/8$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

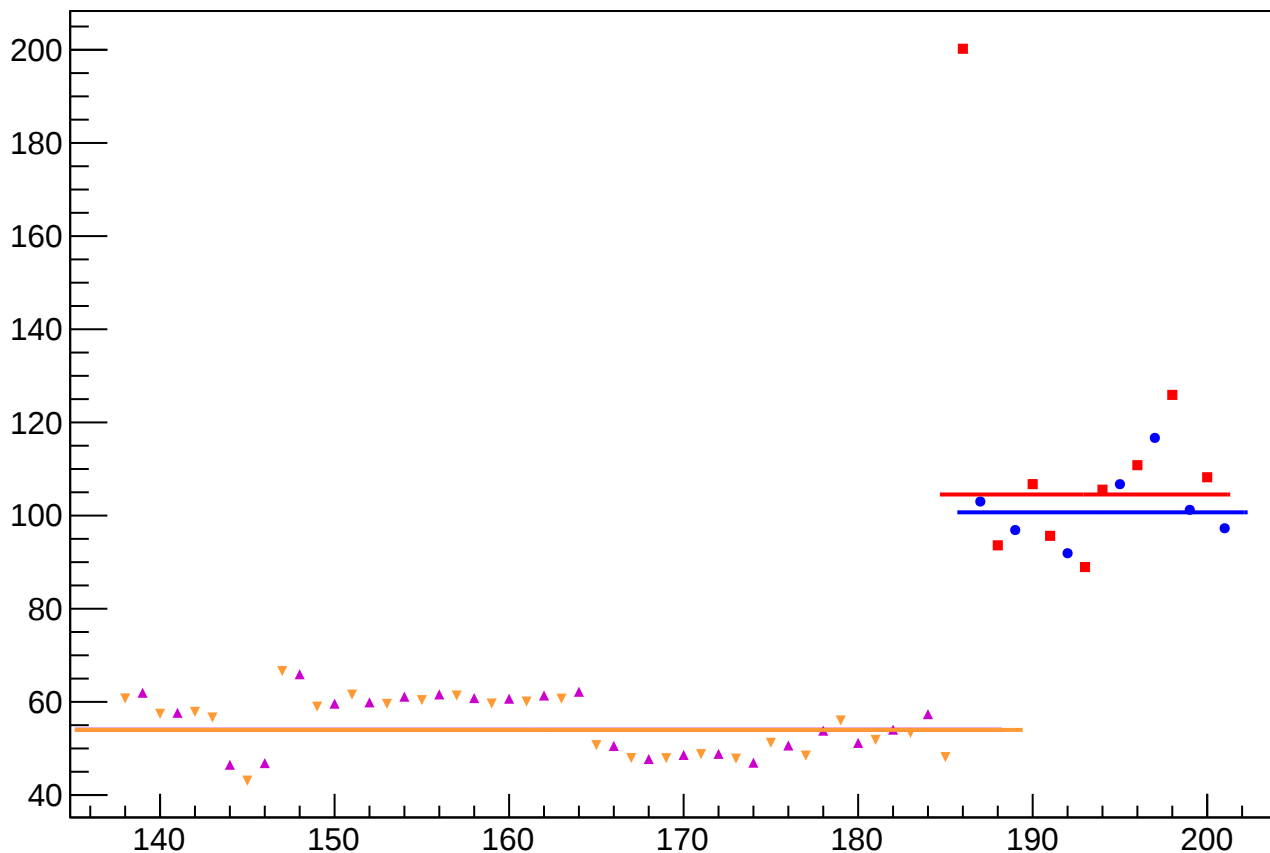
Right: 52.146 ± 32.072 $\chi^2/\text{NDF}: 29.0/15$

In: -24.194 ± 12.553 $\chi^2/\text{NDF}: 21.7/29$

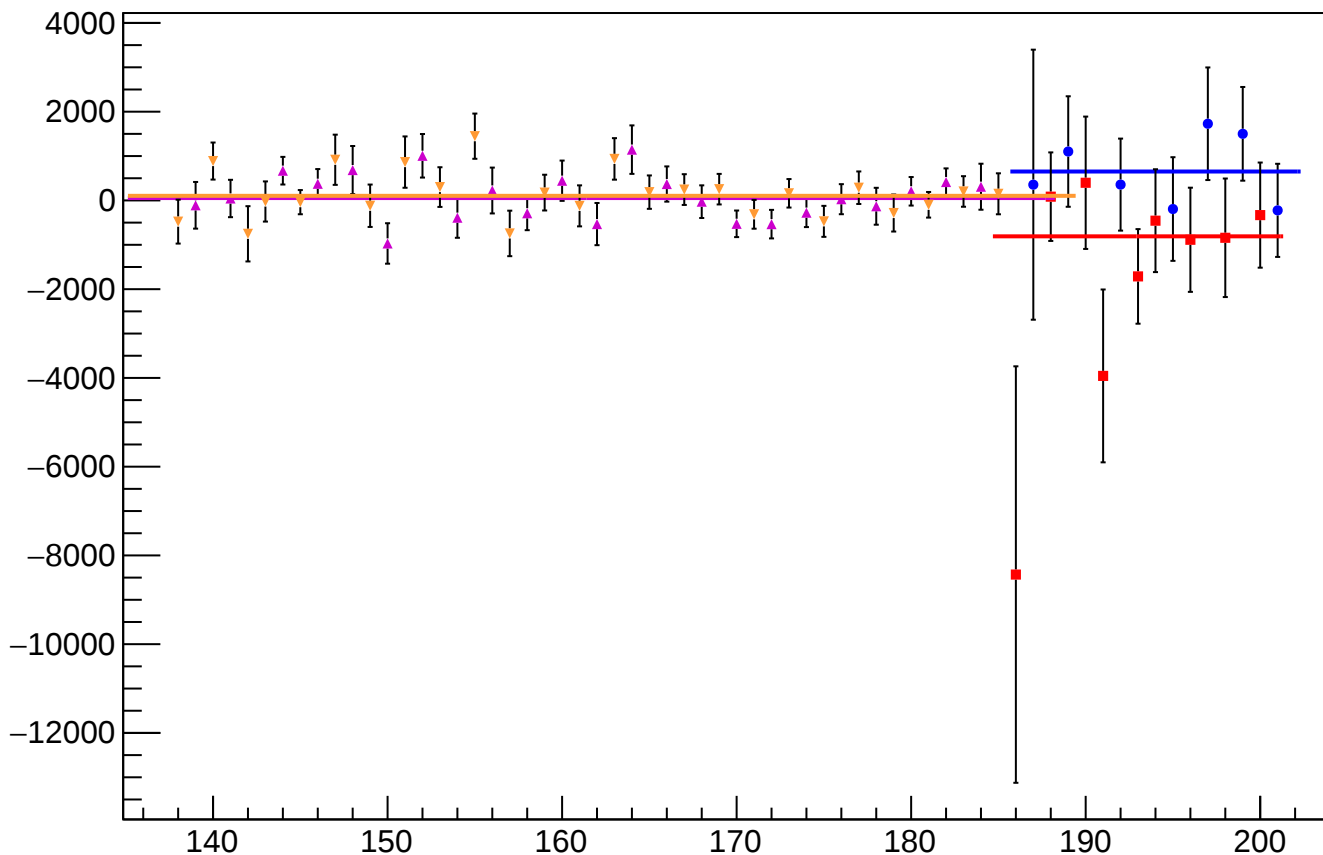
Out: 15.657 ± 12.162 $\chi^2/\text{NDF}: 73.7/33$

All: -3.639 ± 8.735 $\chi^2/\text{NDF}: 100.6/63$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



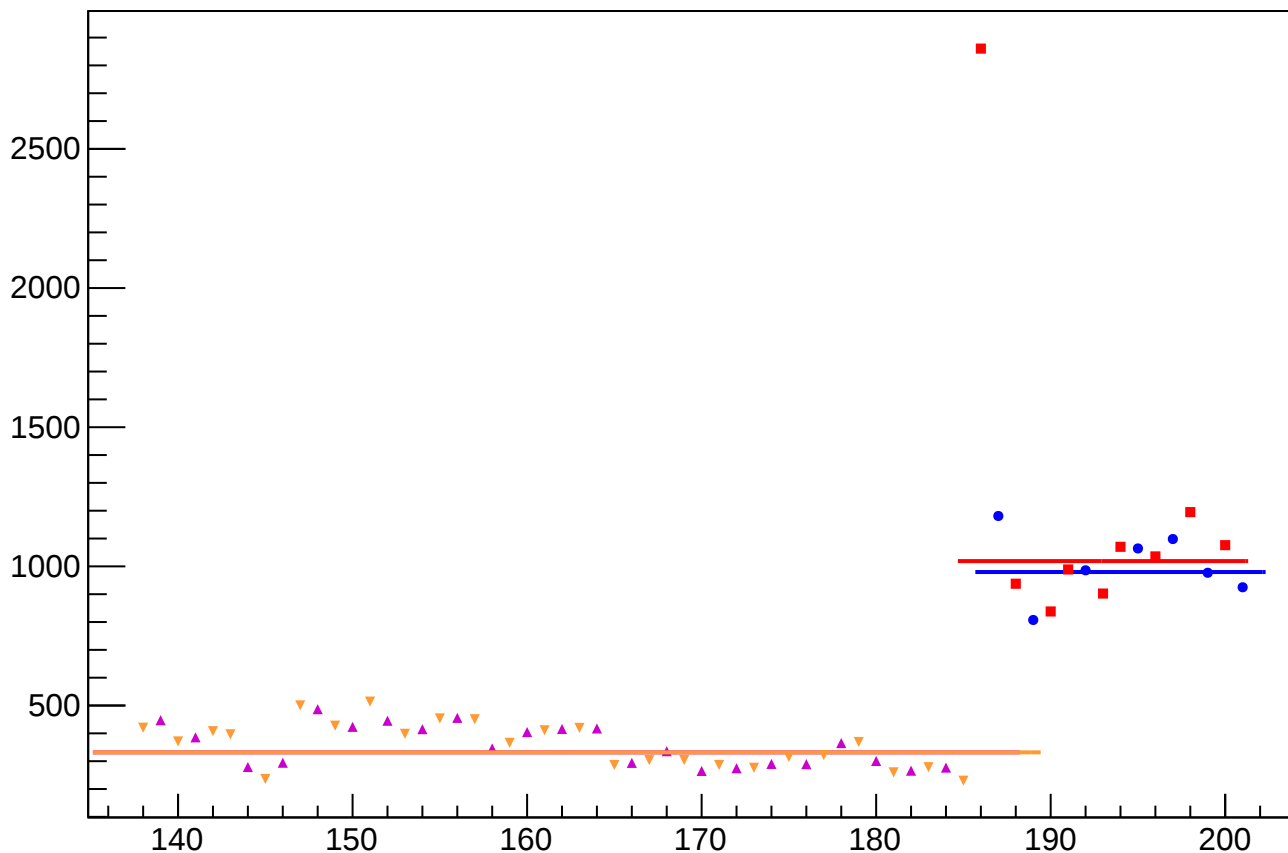
asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 651.616 ± 454.413 χ^2/NDF : 2.8/6
 Left Out: 103.768 ± 79.344 χ^2/NDF : 31.0/24
 Right Out: -809.212 ± 430.850 χ^2/NDF : 7.7/8
 Left In: 53.493 ± 81.201 χ^2/NDF : 34.1/22

Left: 79.212 ± 56.750 χ^2/NDF : 65.3/47
 Right: -117.653 ± 312.655 χ^2/NDF : 15.9/15
 In: 72.001 ± 79.935 χ^2/NDF : 38.6/29
 Out: 73.821 ± 78.032 χ^2/NDF : 43.0/33
 All: 72.933 ± 55.838 χ^2/NDF : 81.6/63

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 979.658+/-0.321 χ^2/NDF : 80589.6/6

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 1018.946+/-0.305 χ^2/NDF : 418815.1/8

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

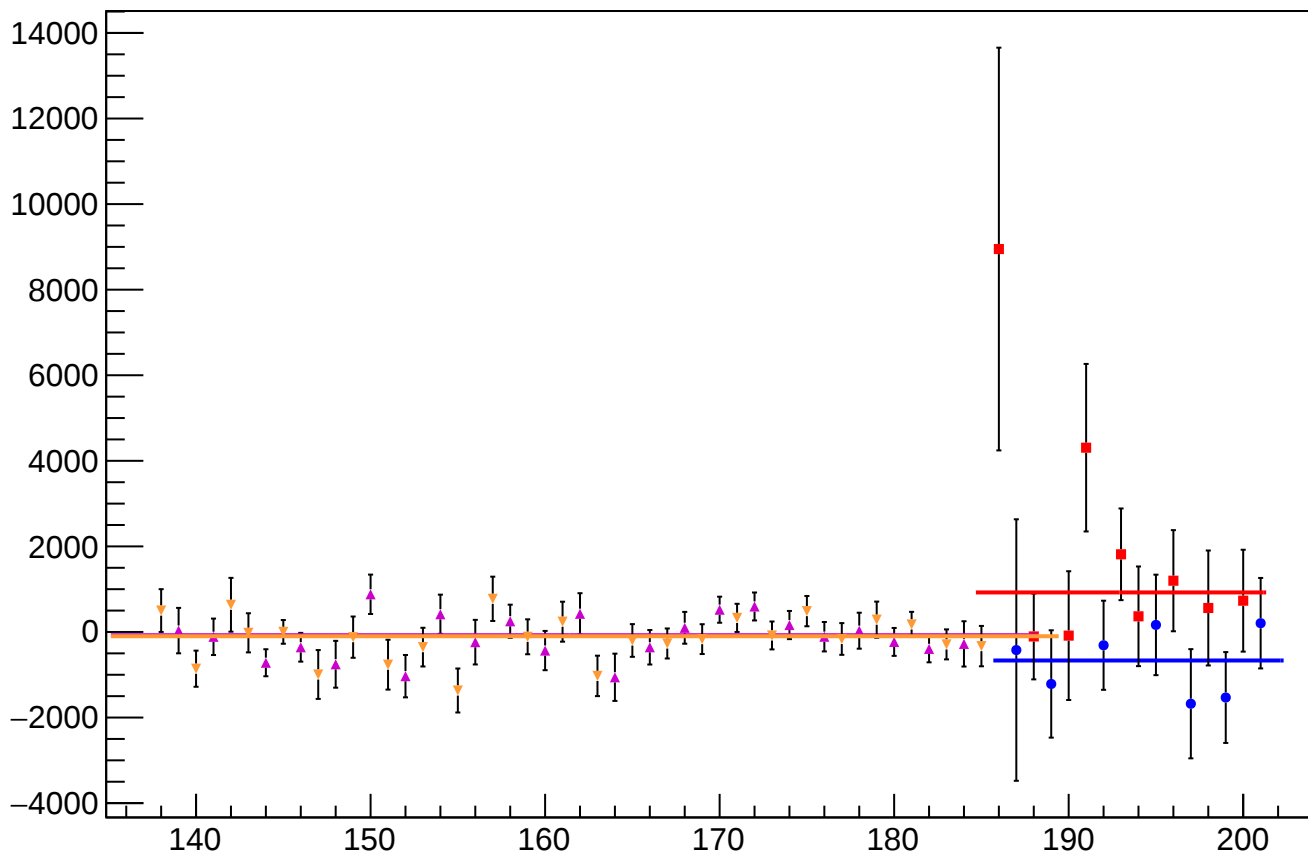
Right: 1000.347+/-0.221 χ^2/NDF : 507277.7/15

In: 351.717+/-0.057 χ^2/NDF : 5324880.7/29

Out: 354.311+/-0.055 χ^2/NDF : 7051268.0/33

All: 353.045+/-0.039 χ^2/NDF : 12377226.9/63

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -666.529+/-457.117 χ^2/NDF : 2.8/6

Left Out: -99.785+/-80.428 χ^2/NDF :30.7/24

Right Out: 924.177+/-433.319 χ^2/NDF : 8.5/8

Left In: -75.579+/-82.319 χ^2/NDF :32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

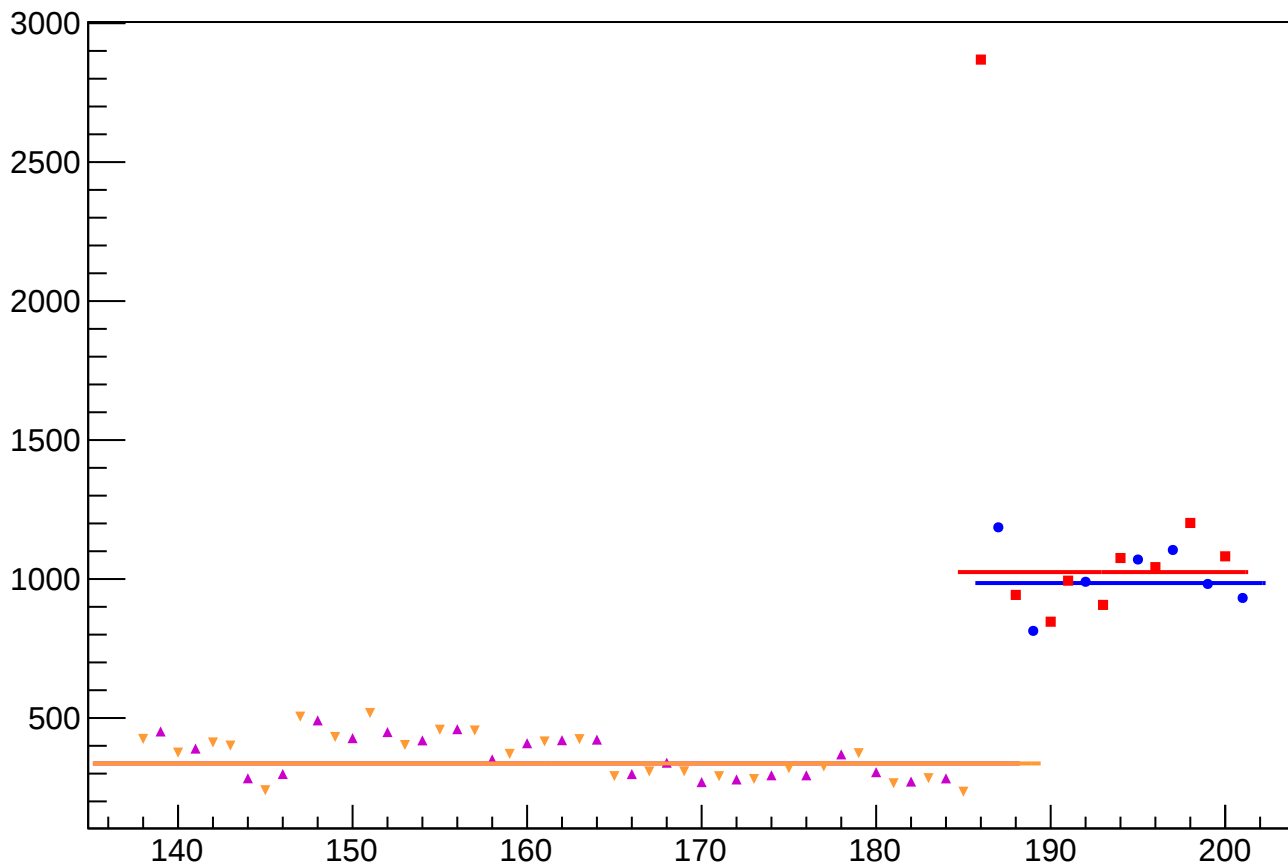
Right: 171.306+/-314.480 χ^2/NDF : 17.6/15

In: -94.142+/-81.015 χ^2/NDF :36.5/29

Out: -65.684+/-79.077 χ^2/NDF :44.5/33

All: -79.568+/-56.589 χ^2/NDF : 81.1/63

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 985.556 $\pm$ 0.323 χ^2 /NDF: 79214.4/6

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF: 1665919.4/24

Right Out: 1024.969 $\pm$ 0.306 χ^2 /NDF: 416710.5/8

Left In: 336.439 $\pm$ 0.058 χ^2 /NDF: 1269066.3/22

Left: 336.500 $\pm$ 0.041 χ^2 /NDF: 2934987.9/47

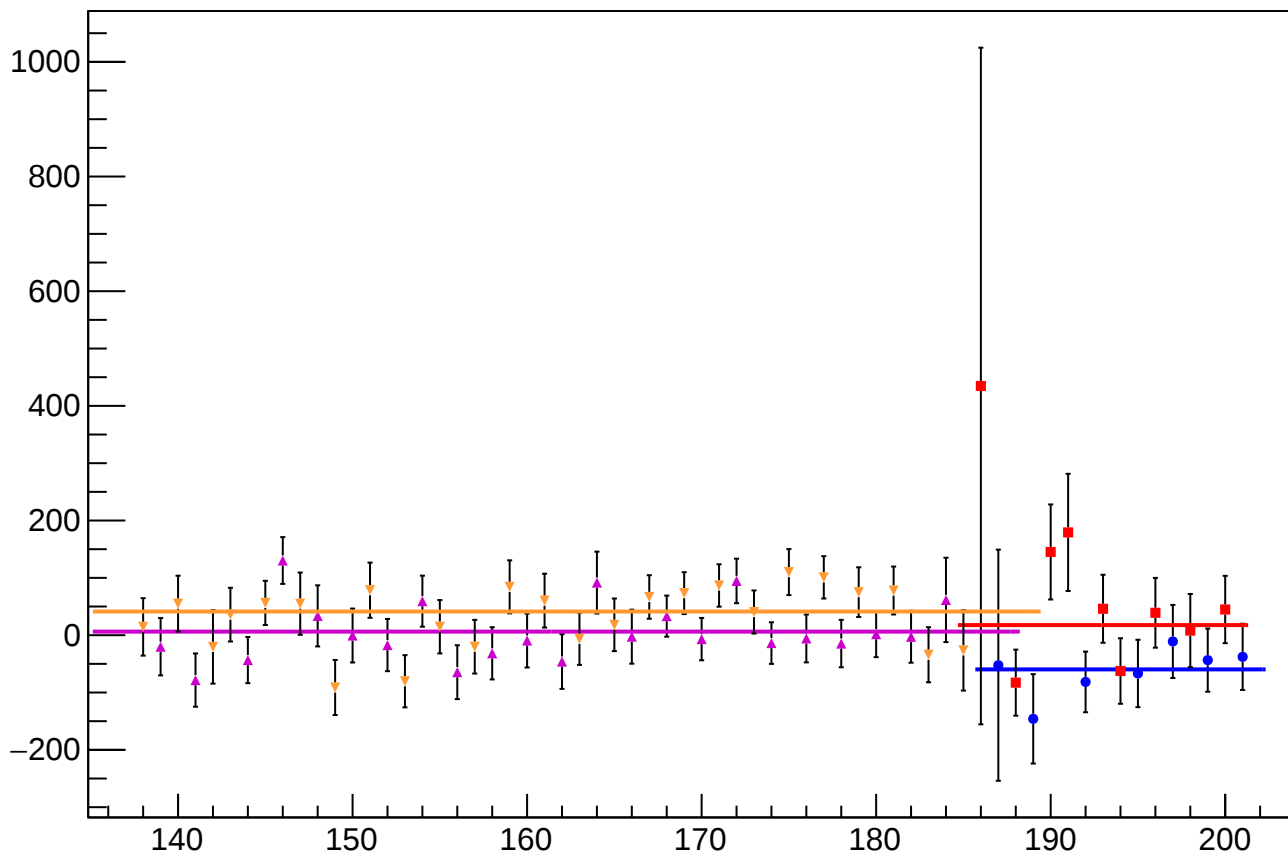
Right: 1006.315 $\pm$ 0.222 χ^2 /NDF: 503756.1/15

In: 356.829 $\pm$ 0.057 χ^2 /NDF: 5254530.9/29

Out: 359.484 $\pm$ 0.056 χ^2 /NDF: 6962403.3/33

All: 358.189 $\pm$ 0.040 χ^2 /NDF: 12218034.2/63

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -59.668 ± 24.175 $\chi^2/\text{NDF}: 2.2/6$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: 17.585 ± 22.697 $\chi^2/\text{NDF}: 11.0/8$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

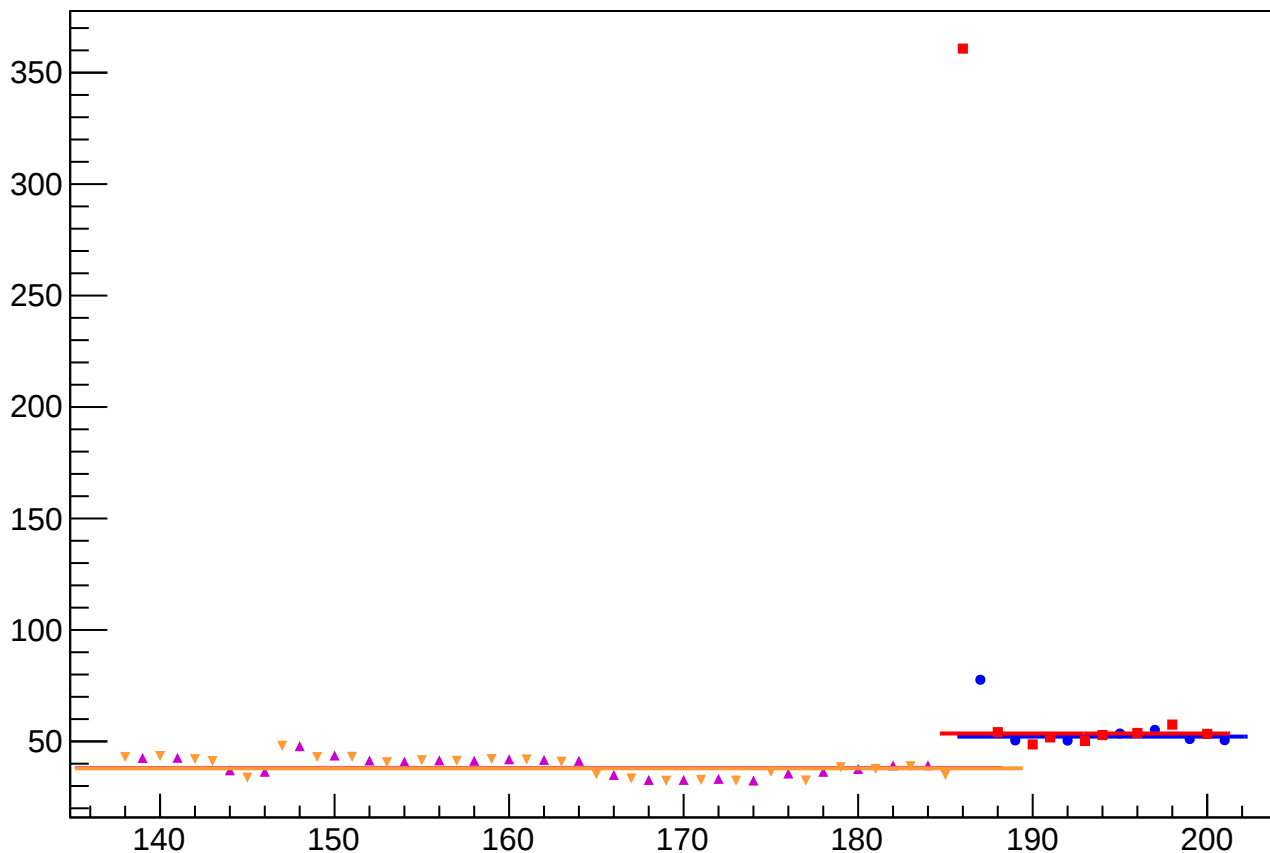
Right: -18.607 ± 16.547 $\chi^2/\text{NDF}: 18.6/15$

In: -2.045 ± 8.578 $\chi^2/\text{NDF}: 39.0/29$

Out: 38.132 ± 8.277 $\chi^2/\text{NDF}: 46.3/33$

All: 18.760 ± 5.956 $\chi^2/\text{NDF}: 96.6/63$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 52.158+/-0.017 χ^2/NDF : 43169.4/6

Left Out: 37.925+/-0.006 χ^2/NDF : 487085.3/24

Right Out: 53.552+/-0.016 χ^2/NDF : 564441.7/8

Left In: 38.087+/-0.006 χ^2/NDF : 396334.5/22

Left: 38.004+/-0.005 χ^2/NDF : 883742.3/47

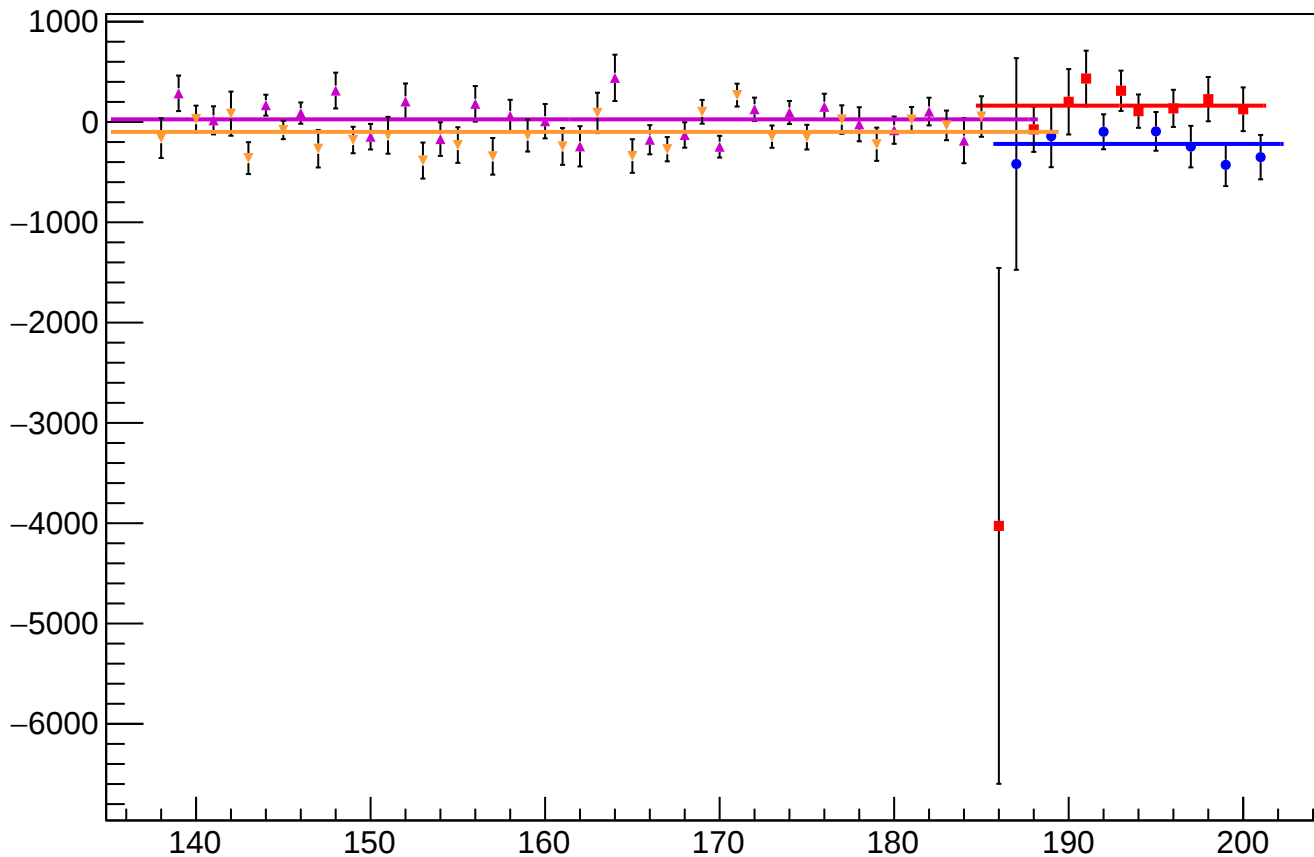
Right: 52.899+/-0.012 χ^2/NDF : 611149.4/15

In: 39.859+/-0.006 χ^2/NDF : 1031690.4/29

Out: 40.003+/-0.006 χ^2/NDF : 1873564.2/33

All: 39.934+/-0.004 χ^2/NDF : 2905549.5/63

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -218.921 ± 85.361 χ^2/NDF : 2.3/6

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 162.866 ± 75.813 χ^2/NDF : 5.5/8

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

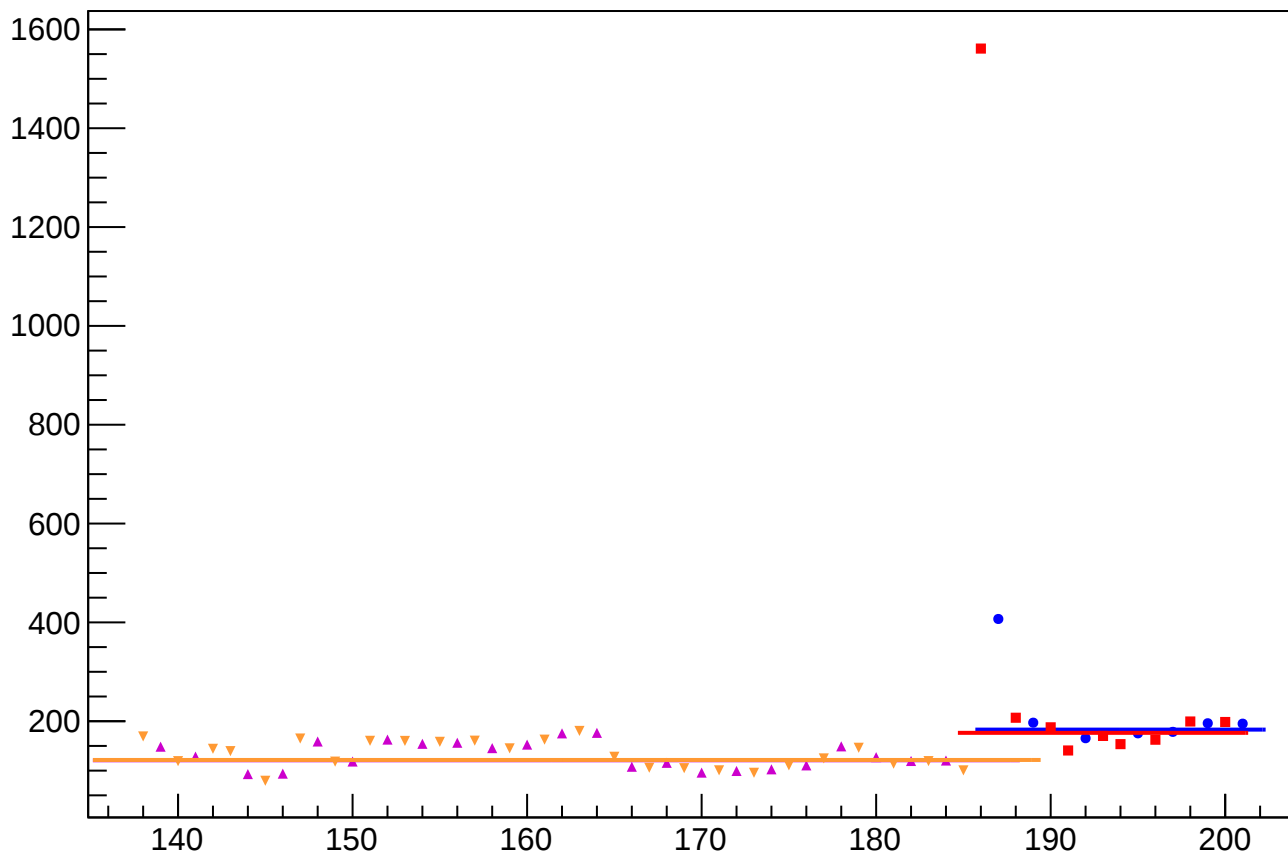
Right: -5.490 ± 56.685 χ^2/NDF : 19.0/15

In: -0.210 ± 28.030 χ^2/NDF : 40.4/29

Out: -65.157 ± 27.164 χ^2/NDF : 48.6/33

All: -33.703 ± 19.507 χ^2/NDF : 91.8/63

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 183.015 $\pm$ 0.060 χ^2 /NDF: 131485.3/6

Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF: 1711423.9/24

Right Out: 176.482 $\pm$ 0.054 χ^2 /NDF: 745363.2/8

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

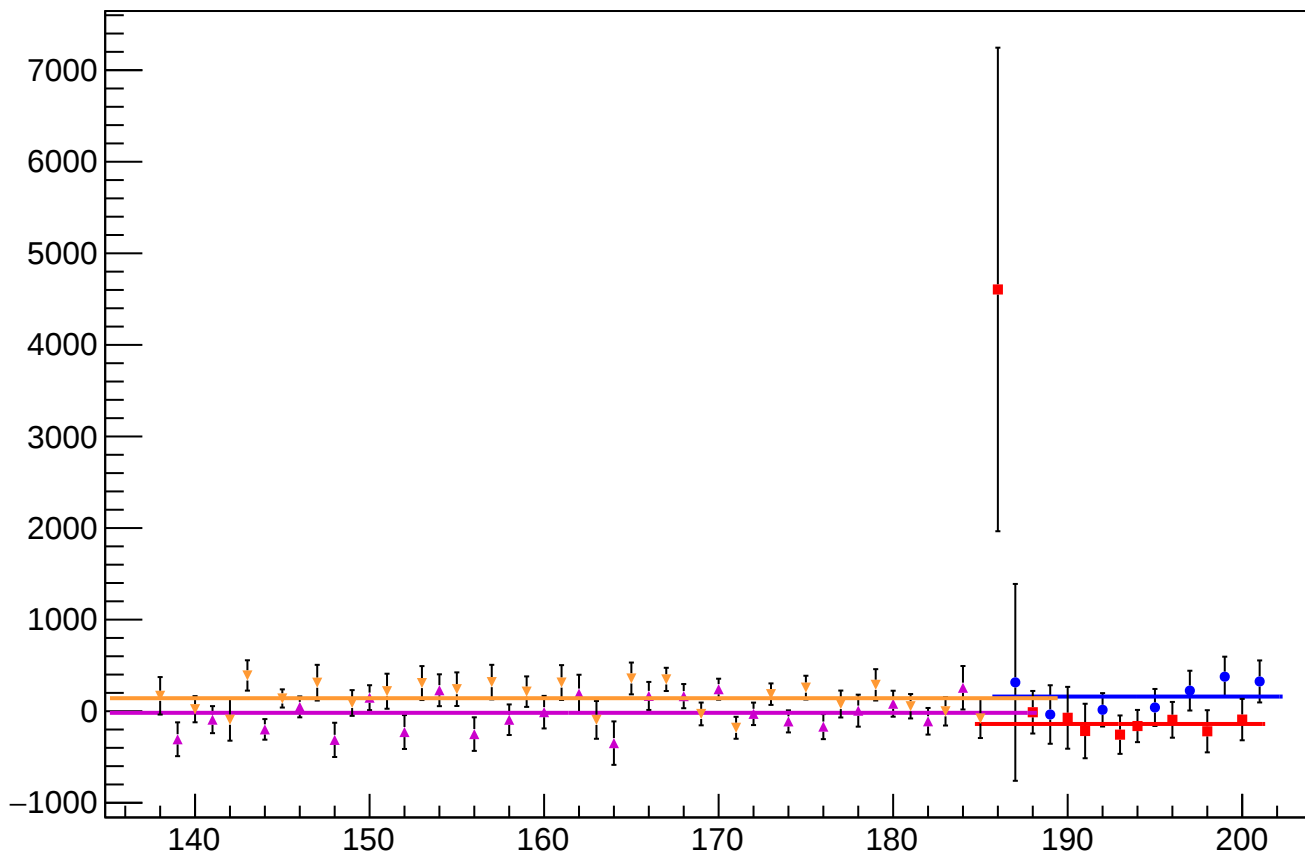
Right: 179.363 $\pm$ 0.040 χ^2 /NDF: 883397.5/15

In: 127.622 $\pm$ 0.020 χ^2 /NDF: 2458366.0/29

Out: 128.639 $\pm$ 0.019 χ^2 /NDF: 3370606.7/33

All: 128.146 $\pm$ 0.014 χ^2 /NDF: 5830330.0/63

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 159.881 $\pm$ 88.947 χ^2 /NDF: 3.0/6

Left Out: 142.014 $\pm$ 30.574 χ^2 /NDF:26.9/24

Right Out: -139.316 $\pm$ 79.446 χ^2 /NDF: 4.2/8

Left In: -17.679 $\pm$ 31.209 χ^2 /NDF:30.1/22

Left: 63.807 $\pm$ 21.840 χ^2 /NDF: 70.4/47

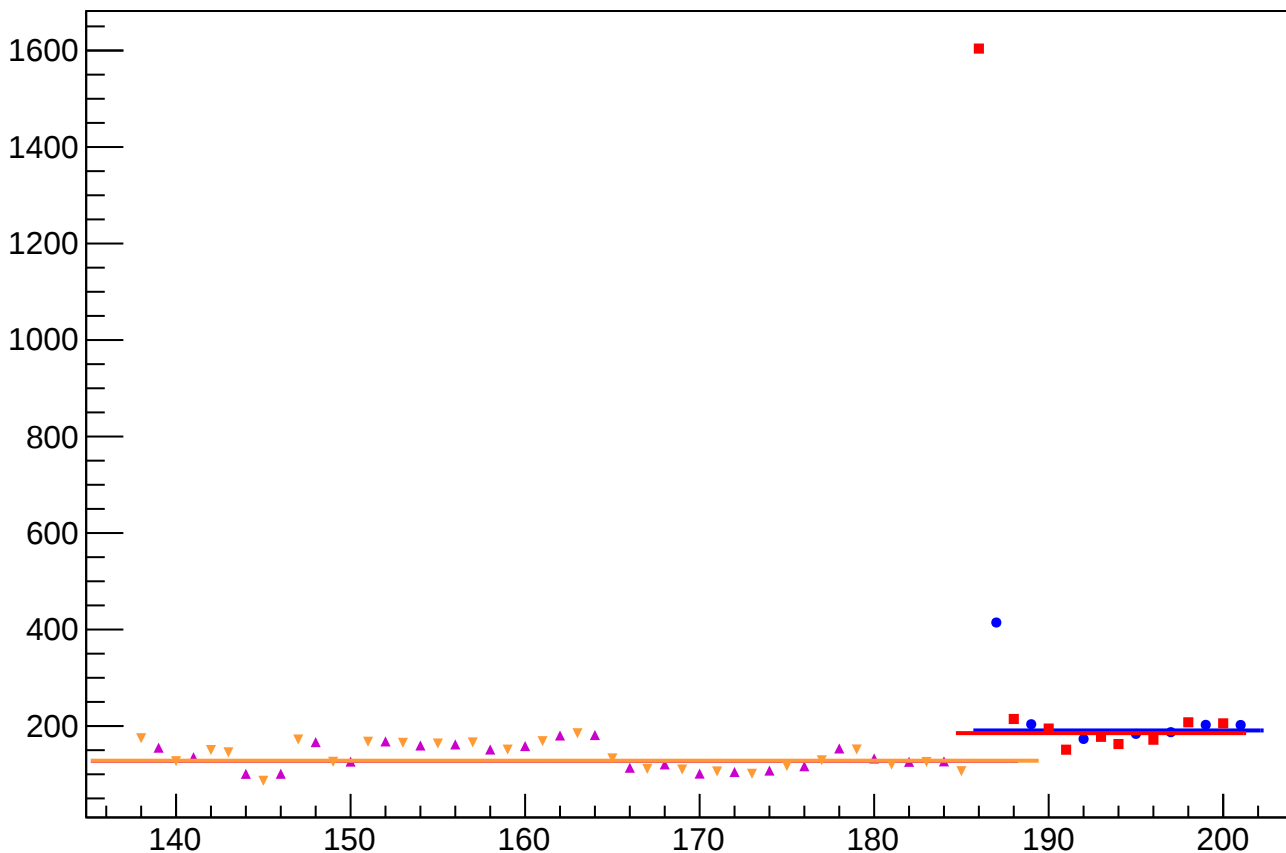
Right: -6.545 $\pm$ 59.252 χ^2 /NDF: 13.4/15

In: 1.784 $\pm$ 29.449 χ^2 /NDF:36.7/29

Out: 105.723 $\pm$ 28.534 χ^2 /NDF:42.0/33

All: 55.392 $\pm$ 20.492 χ^2 /NDF: 85.1/63

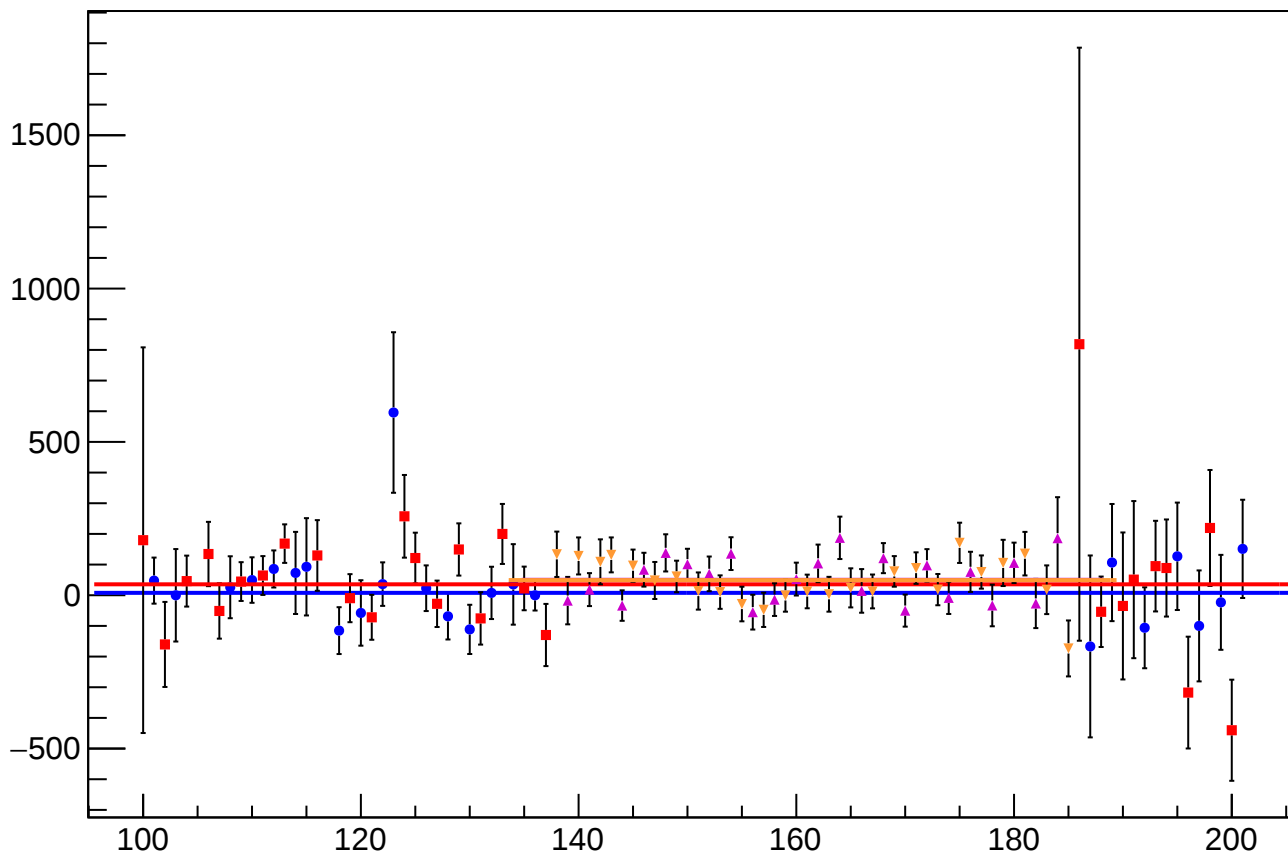
asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 190.865 $\pm$ 0.063 χ^2 /NDF: 122085.3/6
 Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF: 1532922.0/24
 Right Out: 185.309 $\pm$ 0.056 χ^2 /NDF: 717992.5/8
 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: 187.774 $\pm$ 0.042 χ^2 /NDF: 844418.8/15
 In: 134.485 $\pm$ 0.021 χ^2 /NDF: 2260291.3/29
 Out: 135.545 $\pm$ 0.020 χ^2 /NDF: 3151844.0/33
 All: 135.032 $\pm$ 0.014 χ^2 /NDF: 5413473.5/63

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 7.799 ± 19.265 $\chi^2/\text{NDF}: 17.4/23$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 35.631 ± 18.471 $\chi^2/\text{NDF}: 39.9/27$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

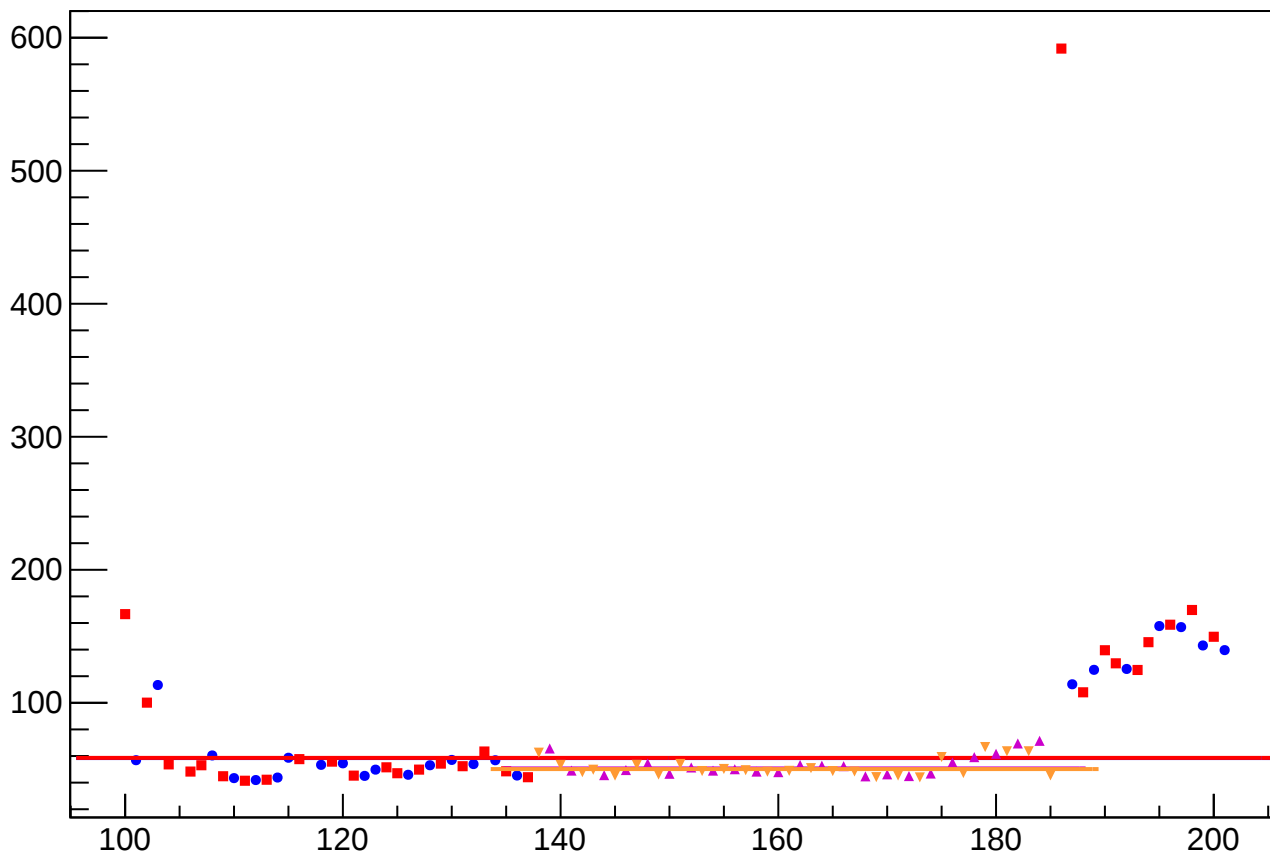
Right: 22.301 ± 13.333 $\chi^2/\text{NDF}: 58.3/51$

In: 38.081 ± 10.339 $\chi^2/\text{NDF}: 53.0/46$

Out: 45.408 ± 9.947 $\chi^2/\text{NDF}: 68.3/52$

All: 41.886 ± 7.168 $\chi^2/\text{NDF}: 121.6/99$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 58.473 $\pm$ 0.014 χ^2 /NDF: 3993248.9/23

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 58.599 $\pm$ 0.013 χ^2 /NDF: 5161273.5/27

Left In: 50.683 $\pm$ 0.009 χ^2 /NDF: 469292.3/22

Left: 50.427 $\pm$ 0.006 χ^2 /NDF: 938655.0/47

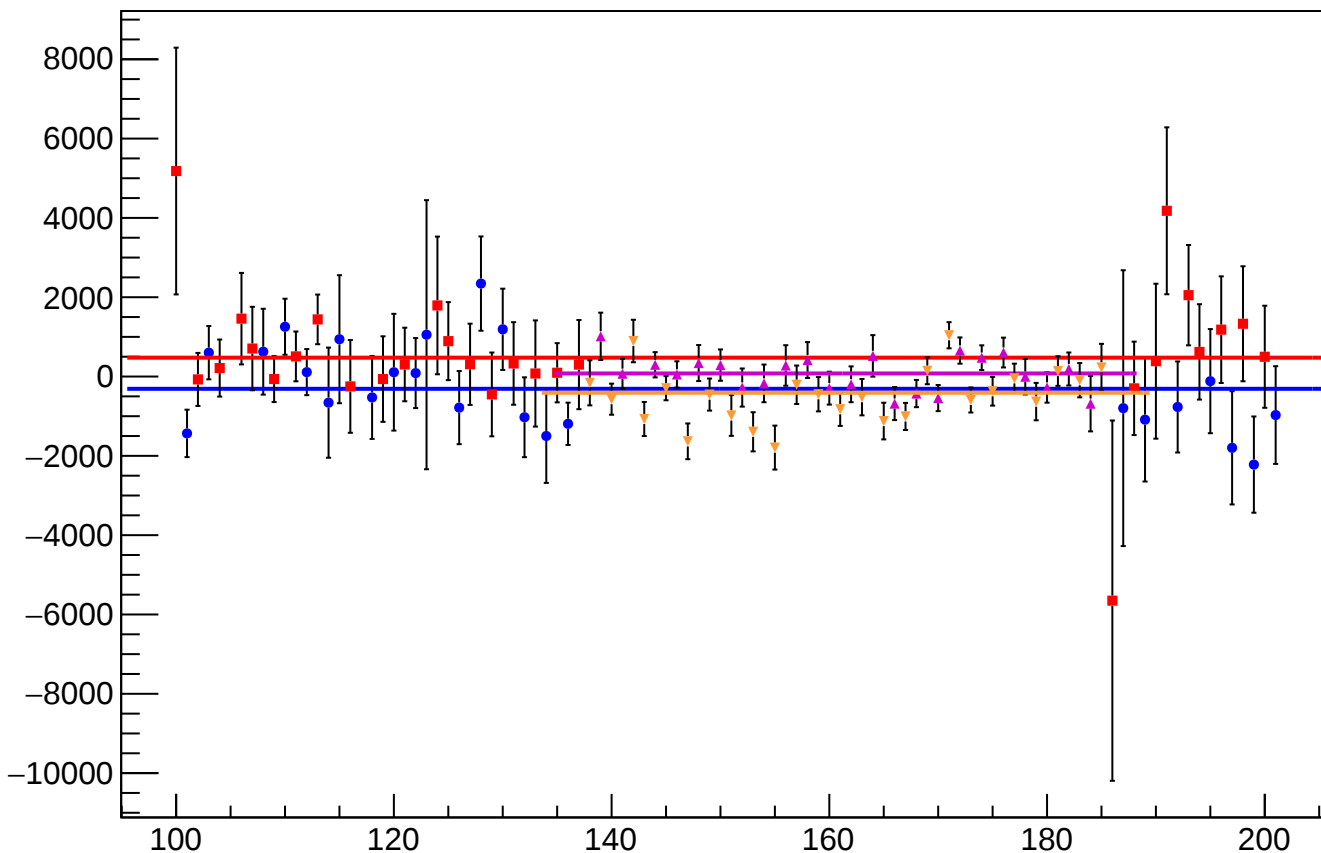
Right: 58.539 $\pm$ 0.009 χ^2 /NDF: 9154567.3/51

In: 52.927 $\pm$ 0.007 χ^2 /NDF: 4695350.5/46

Out: 52.629 $\pm$ 0.007 χ^2 /NDF: 5923320.5/52

All: 52.772 $\pm$ 0.005 χ^2 /NDF: 10619534.8/99

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -309.192 ± 195.393 χ^2/NDF : 28.7/23

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 475.842 ± 188.225 χ^2/NDF : 17.3/27

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

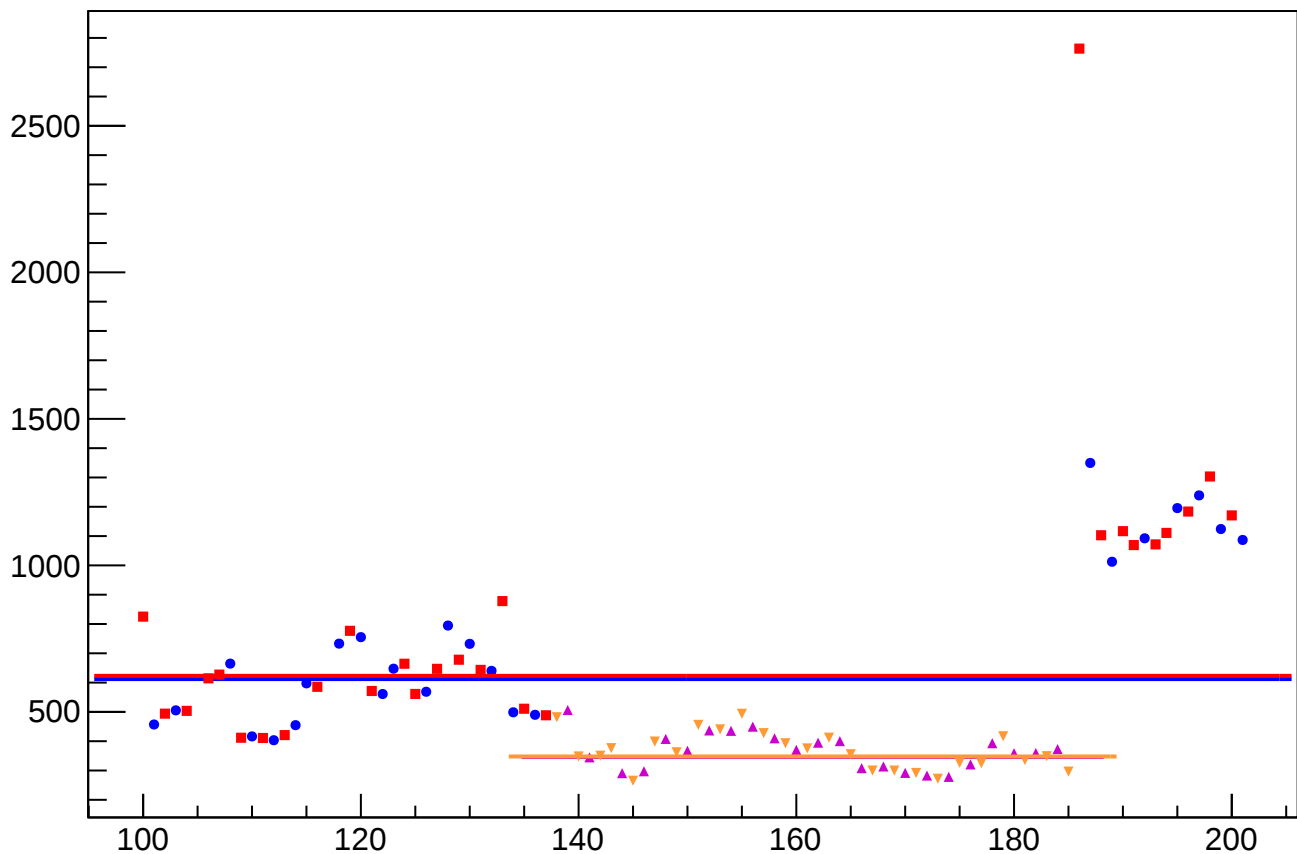
Right: 97.989 ± 135.558 χ^2/NDF : 54.3/51

In: 17.407 ± 77.227 χ^2/NDF : 56.8/46

Out: -266.982 ± 75.444 χ^2/NDF : 97.5/52

All: -128.108 ± 53.966 χ^2/NDF : 161.2/99

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 612.044 $\pm$ 0.138 χ^2 /NDF: 2888176.7/23

Left Out: 347.875 $\pm$ 0.058 χ^2 /NDF: 1044096.7/24

Right Out: 623.057 $\pm$ 0.133 χ^2 /NDF: 3776212.6/27

Left In: 345.954 $\pm$ 0.059 χ^2 /NDF: 900847.0/22

Left: 346.935 $\pm$ 0.042 χ^2 /NDF: 1945476.7/47

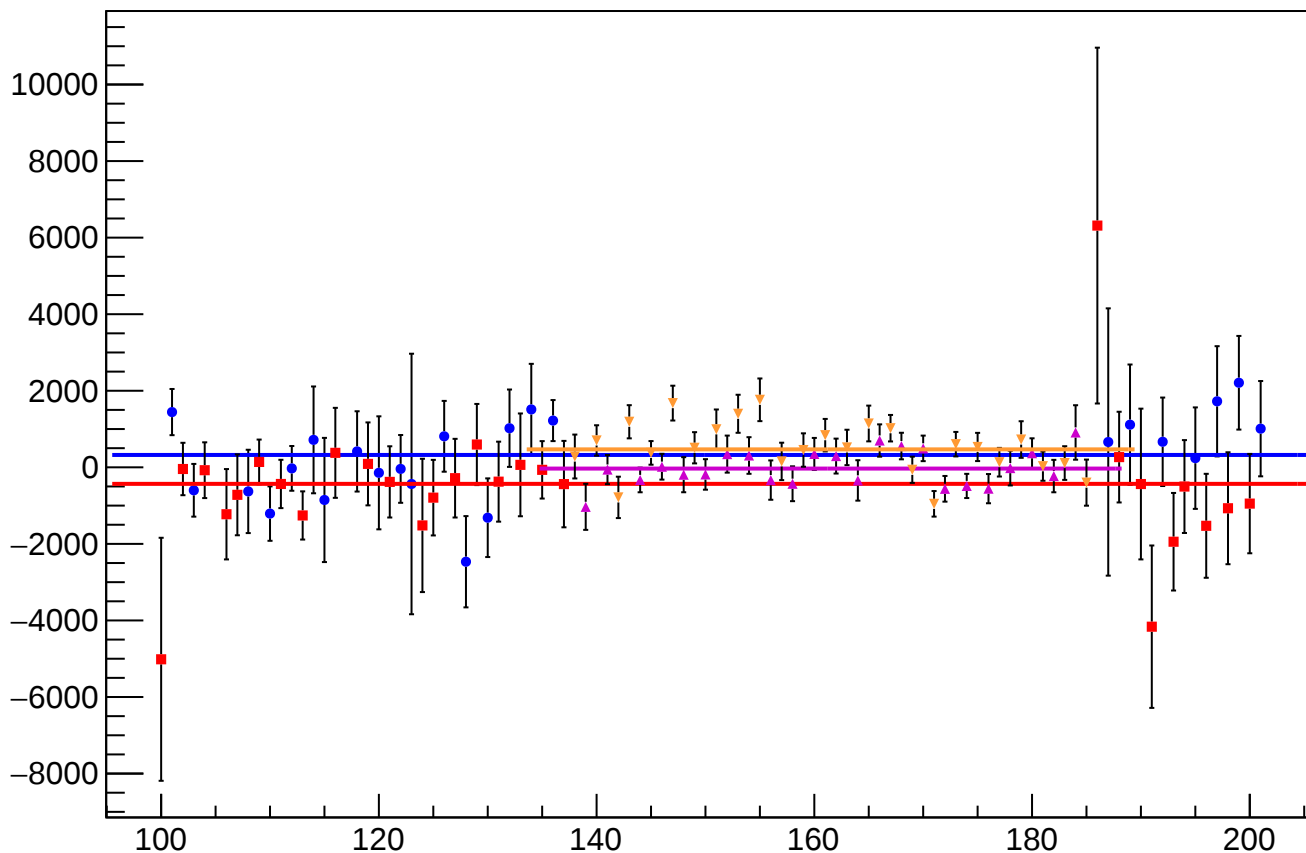
Right: 617.756 $\pm$ 0.096 χ^2 /NDF: 6667684.8/51

In: 387.521 $\pm$ 0.055 χ^2 /NDF: 6918712.6/46

Out: 392.085 $\pm$ 0.053 χ^2 /NDF: 8408349.6/52

All: 389.856 $\pm$ 0.038 χ^2 /NDF: 15330635.9/99

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 323.140 $\pm$ 196.805 χ^2 /NDF: 28.5/23

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -431.987 $\pm$ 189.691 χ^2 /NDF: 16.4/27

Left In: -32.801 $\pm$ 85.064 χ^2 /NDF:25.7/22

Left: 223.299 $\pm$ 59.514 χ^2 /NDF: 100.9/47

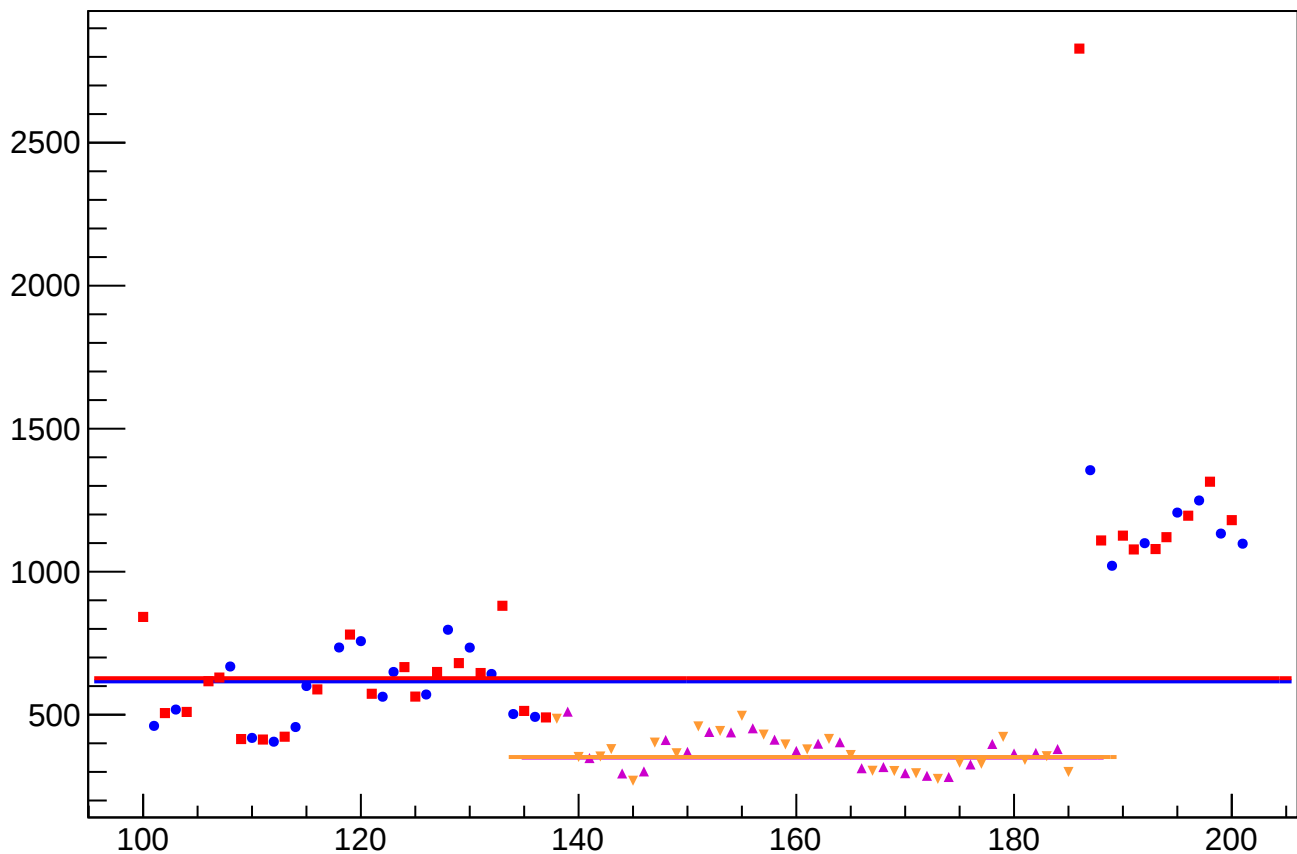
Right: -68.317 $\pm$ 136.578 χ^2 /NDF: 52.5/51

In: 23.228 $\pm$ 78.082 χ^2 /NDF:56.9/46

Out: 323.241 $\pm$ 76.267 χ^2 /NDF:92.8/52

All: 176.763 $\pm$ 54.559 χ^2 /NDF: 157.3/99

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 616.528+/-0.139 χ^2/NDF : 2885268.3/23

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 627.616+/-0.134 χ^2/NDF : 3777831.2/27

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

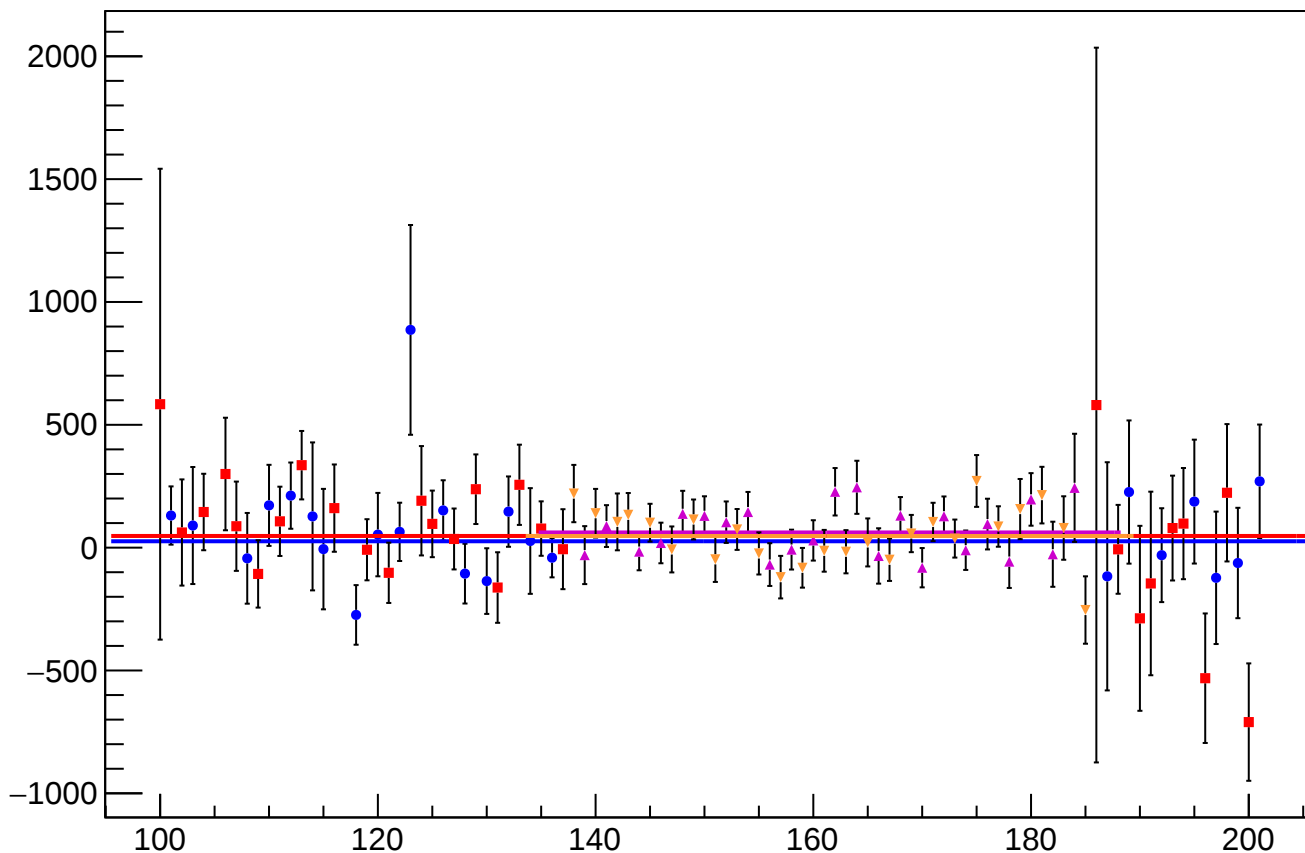
Right: 622.276+/-0.097 χ^2/NDF : 6666390.8/51

In: 392.089+/-0.055 χ^2/NDF : 6850646.9/46

Out: 396.565+/-0.054 χ^2/NDF : 8334382.0/52

All: 394.380+/-0.039 χ^2/NDF : 15188392.6/99

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 25.978 $\pm$ 32.524 χ^2 /NDF: 21.8/23

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 47.567 $\pm$ 32.322 χ^2 /NDF: 32.7/27

Left In: 61.830 $\pm$ 18.958 χ^2 /NDF:24.0/22

Left: 54.355 $\pm$ 13.149 χ^2 /NDF: 53.7/47

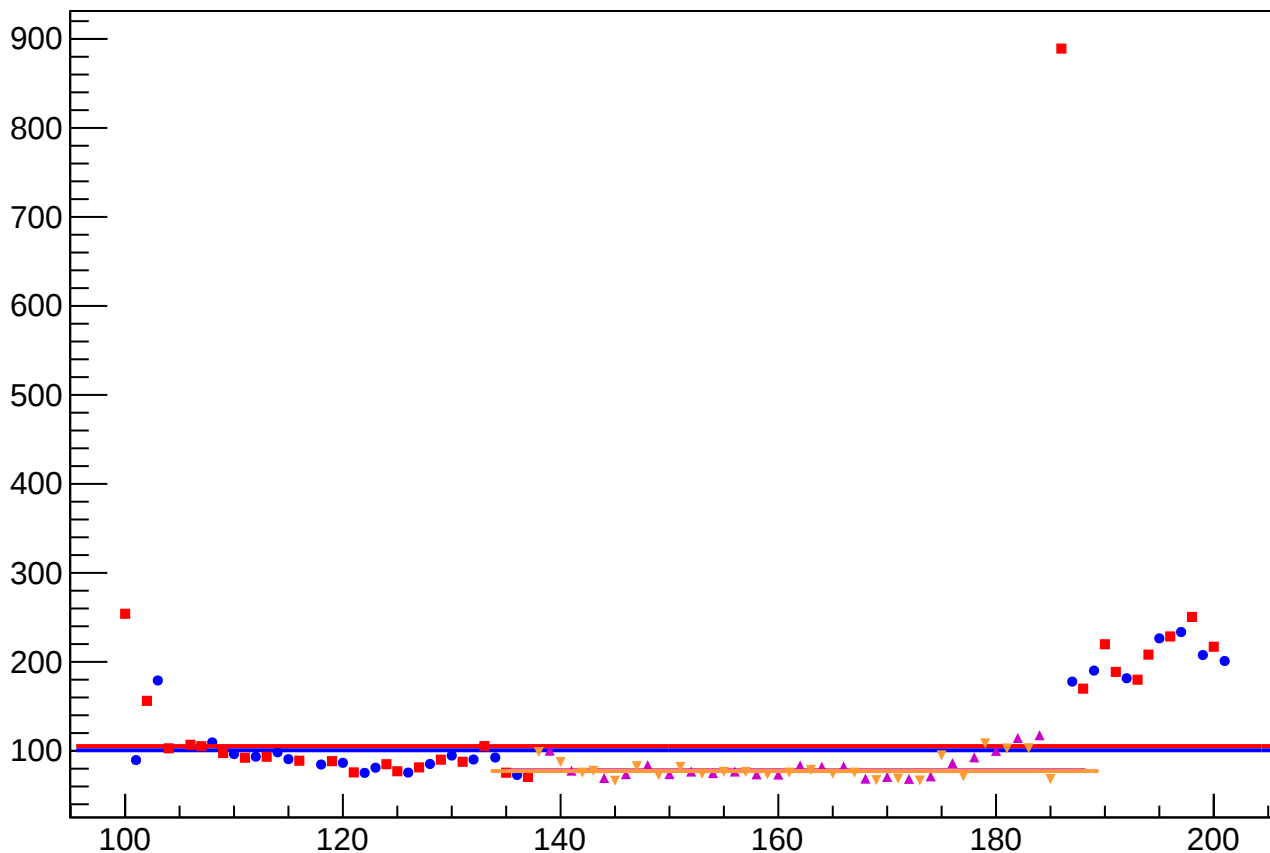
Right: 36.840 $\pm$ 22.926 χ^2 /NDF: 54.8/51

In: 52.738 $\pm$ 16.378 χ^2 /NDF:46.7/46

Out: 47.460 $\pm$ 15.894 χ^2 /NDF:62.1/52

All: 50.020 $\pm$ 11.406 χ^2 /NDF: 108.9/99

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 100.670 $\pm$ 0.023 χ^2 /NDF: 3185147.8/23

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF: 635622.3/24

Right Out: 105.390 $\pm$ 0.023 χ^2 /NDF: 4025836.5/27

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

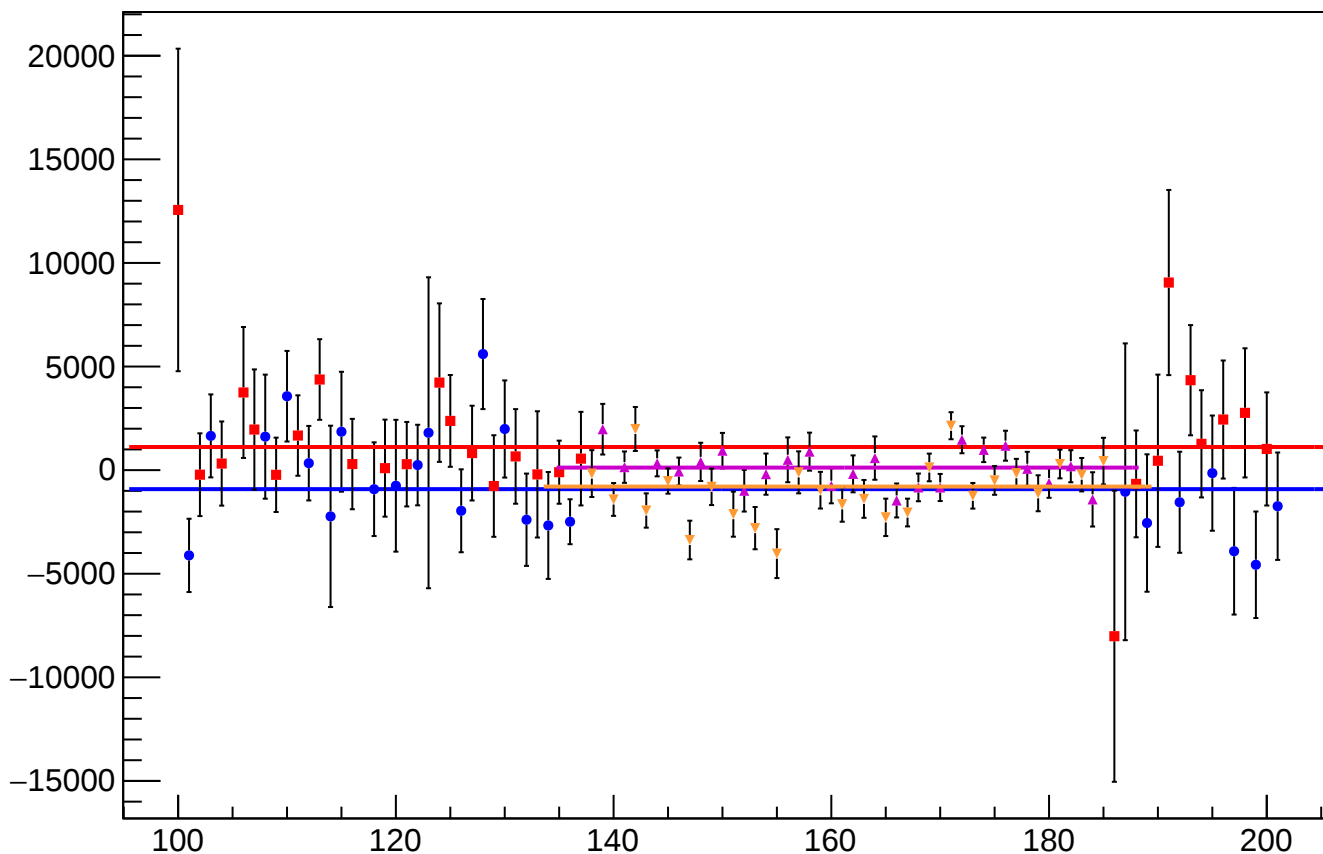
Right: 103.045 $\pm$ 0.016 χ^2 /NDF: 7232179.9/51

In: 83.852 $\pm$ 0.012 χ^2 /NDF: 4483675.6/46

Out: 84.104 $\pm$ 0.011 χ^2 /NDF: 5805467.2/52

All: 83.982 $\pm$ 0.008 χ^2 /NDF: 10289386.2/99

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -917.336 ± 469.386 $\chi^2/\text{NDF}: 26.1/23$

Left Out: -792.776 ± 162.659 $\chi^2/\text{NDF}: 66.6/24$

Right Out: 1115.773 ± 461.819 $\chi^2/\text{NDF}: 17.3/27$

Left In: 122.198 ± 166.193 $\chi^2/\text{NDF}: 25.9/22$

Left: -345.122 ± 116.247 $\chi^2/\text{NDF}: 108.0/47$

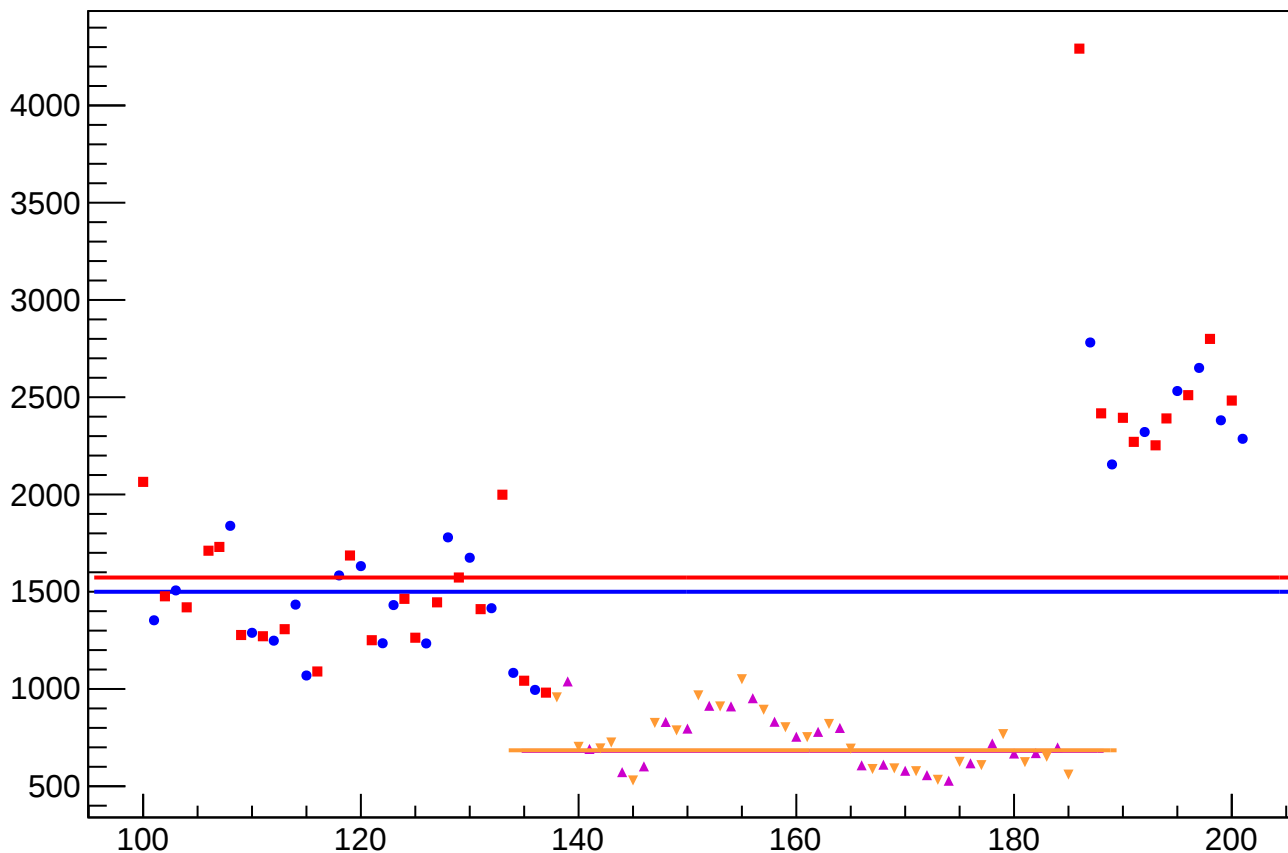
Right: 115.737 ± 329.198 $\chi^2/\text{NDF}: 53.0/51$

In: 6.396 ± 156.663 $\chi^2/\text{NDF}: 56.4/46$

Out: -582.142 ± 153.421 $\chi^2/\text{NDF}: 99.1/52$

All: -294.027 ± 109.613 $\chi^2/\text{NDF}: 162.8/99$

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1499.781+/-0.332 χ^2/NDF : 2089228.2/23

Left Out: 684.785+/-0.115 χ^2/NDF :1280146.2/24

Right Out: 1573.044+/-0.327 χ^2/NDF : 2522377.7/27

Left In: 681.712+/-0.118 χ^2/NDF :1119637.0/22

Left: 683.282+/-0.082 χ^2/NDF : 2400132.5/47

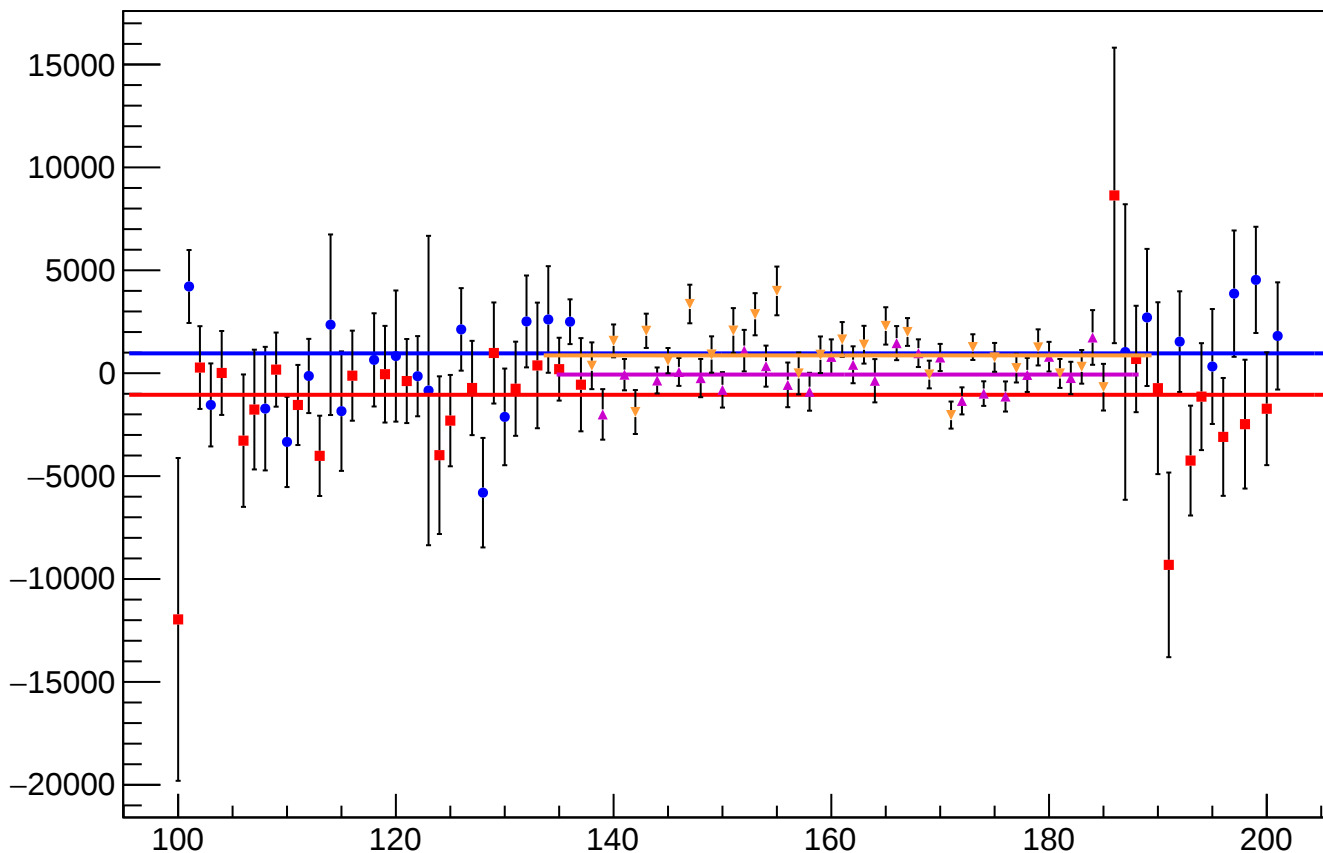
Right: 1537.008+/-0.233 χ^2/NDF : 4636364.1/51

In: 772.843+/-0.111 χ^2/NDF :8607161.2/46

Out: 782.816+/-0.108 χ^2/NDF :10384831.3/52

All: 777.934+/-0.078 χ^2/NDF : 18996129.7/99

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 963.888 $\pm$ 470.824 χ^2 /NDF: 26.1/23

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -1049.009 $\pm$ 463.434 χ^2 /NDF: 16.9/27

Left In: -65.924 $\pm$ 167.485 χ^2 /NDF:26.4/22

Left: 409.953 $\pm$ 117.136 χ^2 /NDF: 105.1/47

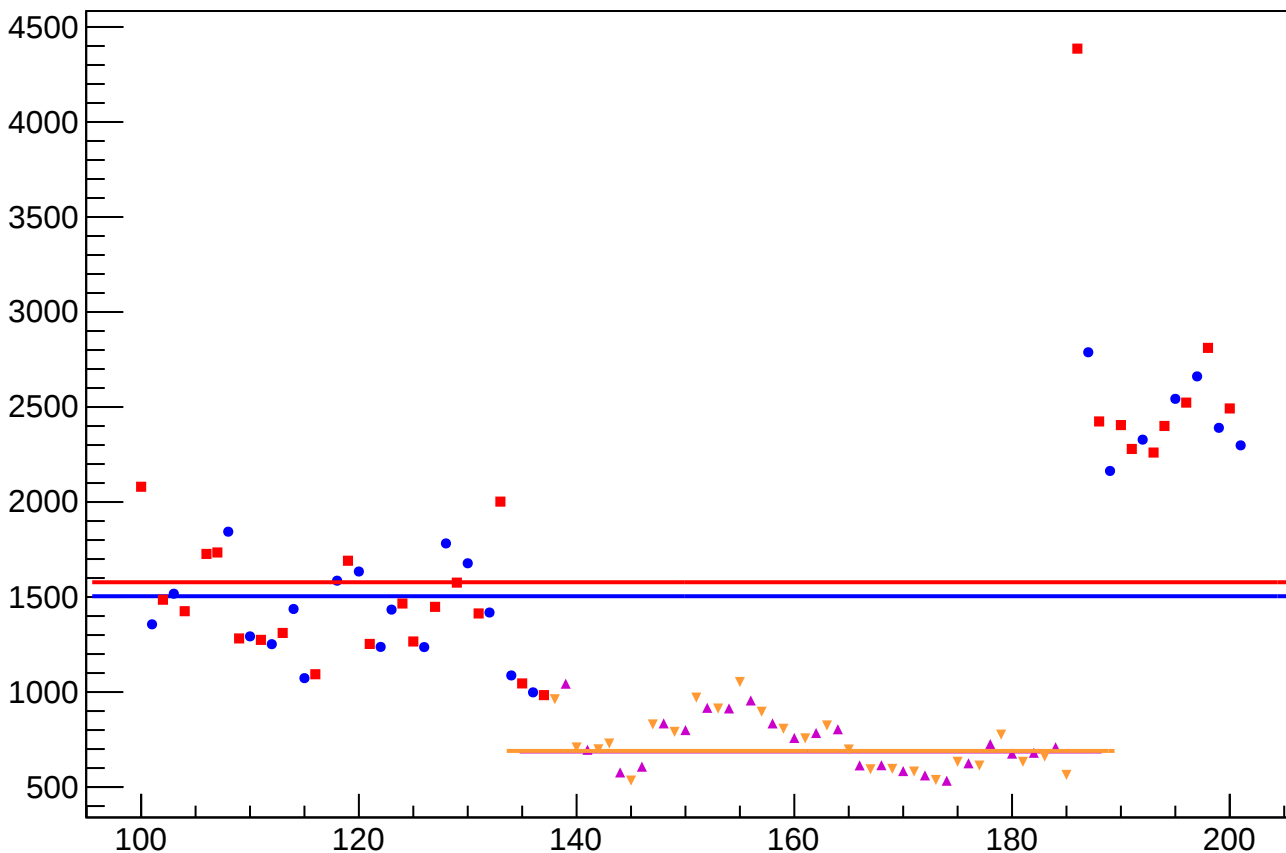
Right: -58.481 $\pm$ 330.279 χ^2 /NDF: 52.3/51

In: 49.752 $\pm$ 157.798 χ^2 /NDF:56.8/46

Out: 652.778 $\pm$ 154.509 χ^2 /NDF:95.0/52

All: 357.615 $\pm$ 110.399 χ^2 /NDF: 159.2/99

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1504.237 $\pm$ 0.333 χ^2 /NDF: 2093339.2/23

Left Out: 690.166 $\pm$ 0.116 χ^2 /NDF:1258158.2/24

Right Out: 1577.811 $\pm$ 0.328 χ^2 /NDF: 2534580.3/27

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

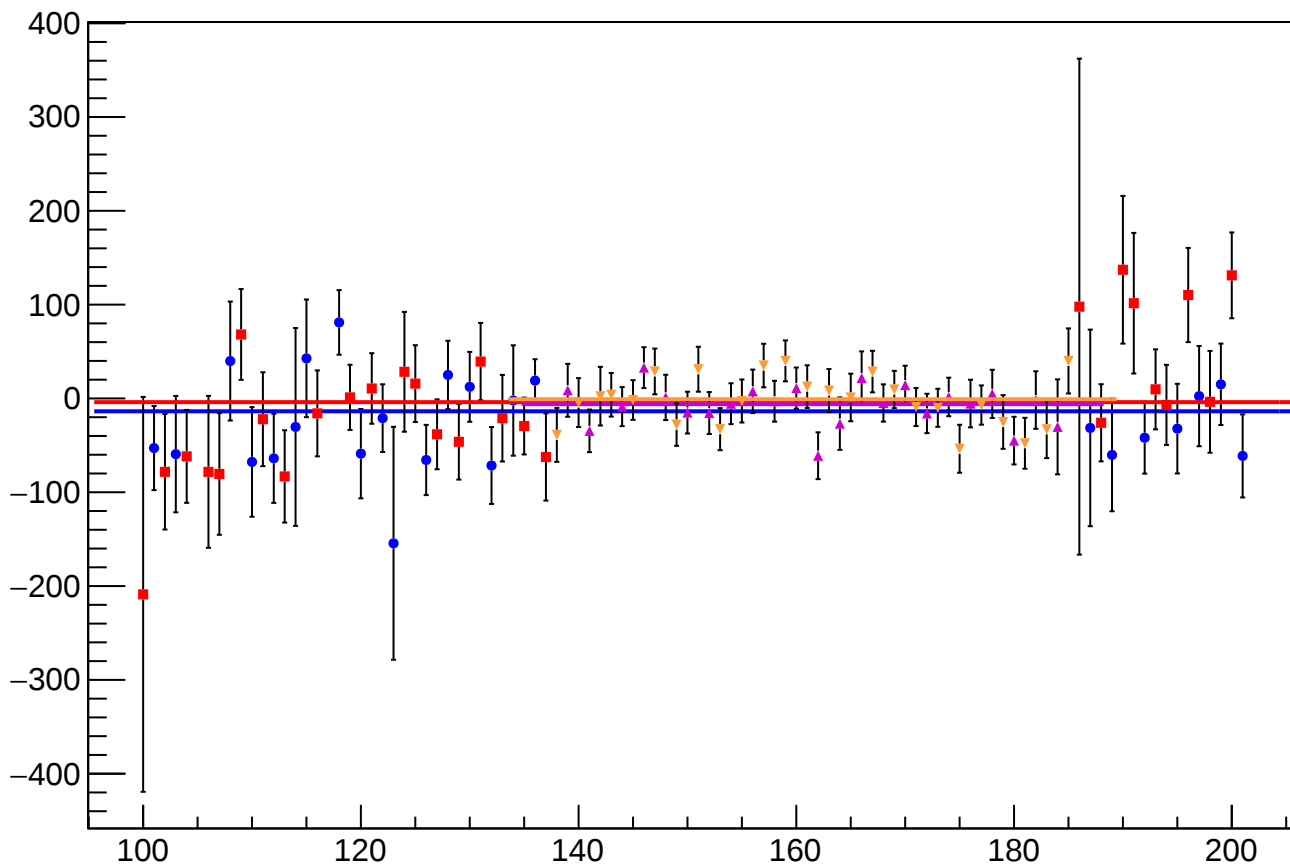
Right: 1541.606 $\pm$ 0.234 χ^2 /NDF: 4652725.3/51

In: 778.990 $\pm$ 0.112 χ^2 /NDF:8539077.6/46

Out: 788.833 $\pm$ 0.109 χ^2 /NDF:10314401.3/52

All: 784.015 $\pm$ 0.078 χ^2 /NDF: 18857451.6/99

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -13.699 ± 9.096 χ^2/NDF : 25.3/23

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: -3.955 ± 8.987 χ^2/NDF : 36.8/27

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

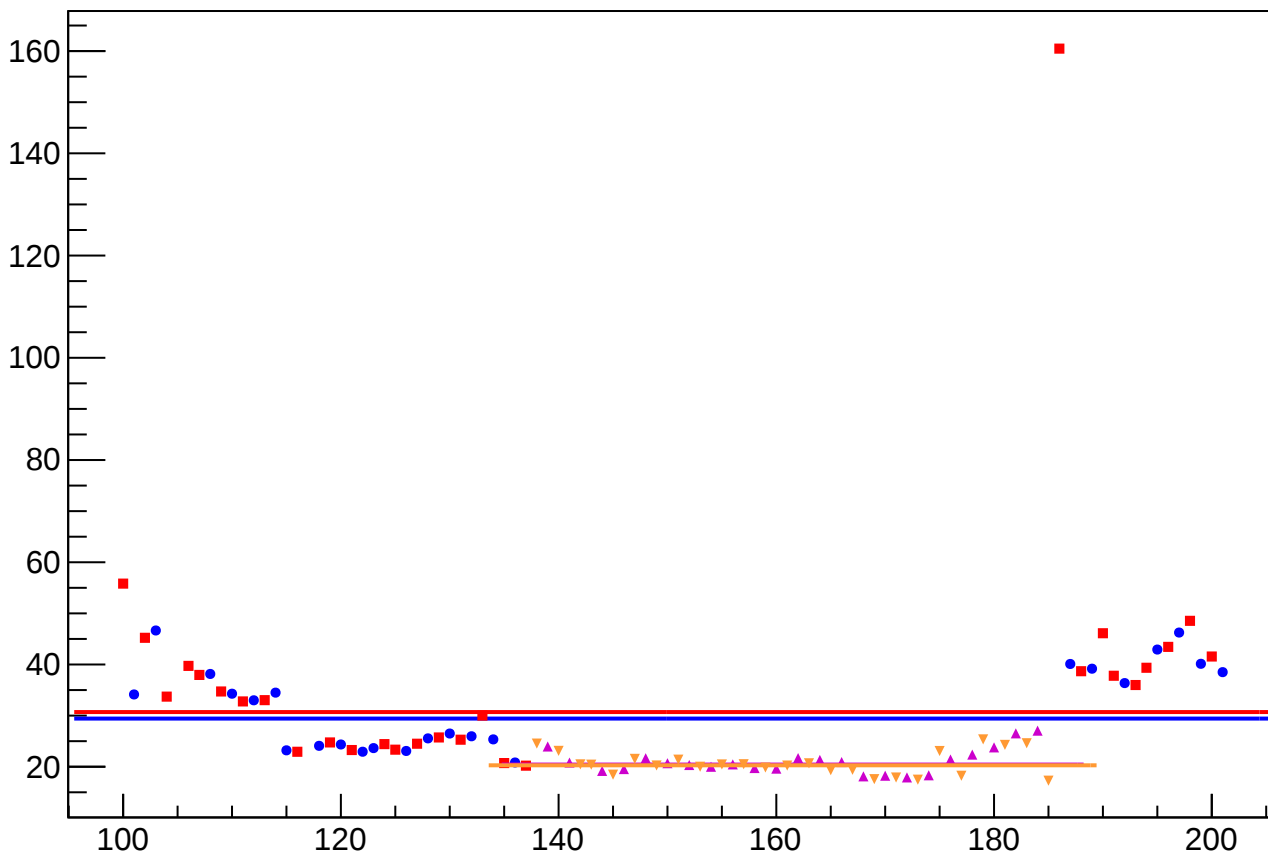
Right: -8.768 ± 6.393 χ^2/NDF : 62.6/51

In: -7.778 ± 4.331 χ^2/NDF : 42.7/46

Out: -1.539 ± 4.207 χ^2/NDF : 64.8/52

All: -4.567 ± 3.018 χ^2/NDF : 108.6/99

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 29.419 $\pm$ 0.006 χ^2 /NDF: 1508166.2/23

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 30.695 $\pm$ 0.006 χ^2 /NDF: 2159583.6/27

Left In: 20.424 $\pm$ 0.003 χ^2 /NDF: 323427.4/22

Left: 20.349 $\pm$ 0.002 χ^2 /NDF: 731373.7/47

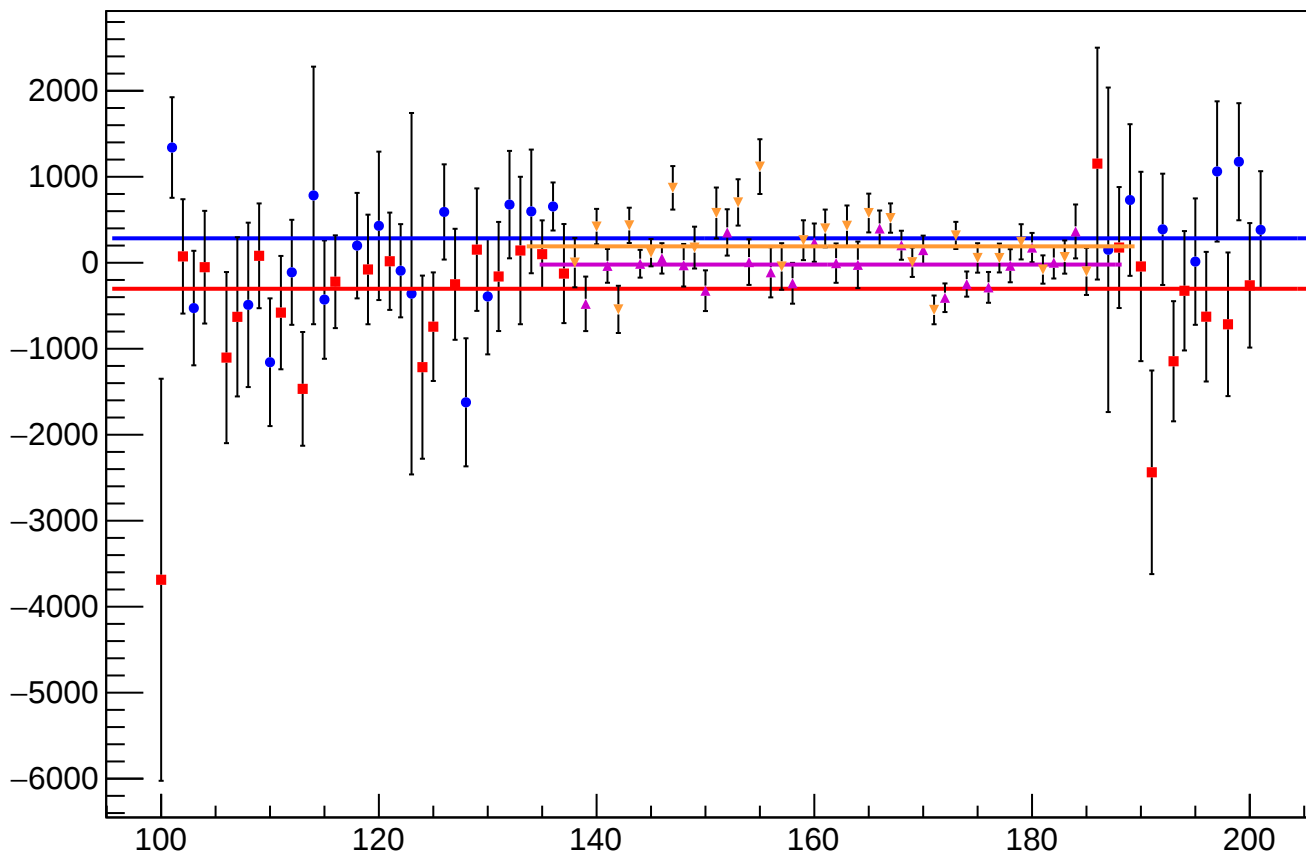
Right: 30.065 $\pm$ 0.005 χ^2 /NDF: 3687667.7/51

In: 22.463 $\pm$ 0.003 χ^2 /NDF: 3344158.3/46

Out: 22.561 $\pm$ 0.003 χ^2 /NDF: 4664457.1/52

All: 22.514 $\pm$ 0.002 χ^2 /NDF: 8009141.4/99

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 284.355 $\pm$ 132.280 χ^2 /NDF: 24.7/23

Left Out: 190.867 $\pm$ 41.314 χ^2 /NDF: 67.9/24

Right Out: -302.491 $\pm$ 131.687 χ^2 /NDF: 17.4/27

Left In: -20.998 $\pm$ 42.291 χ^2 /NDF: 27.7/22

Left: 87.410 $\pm$ 29.553 χ^2 /NDF: 108.4/47

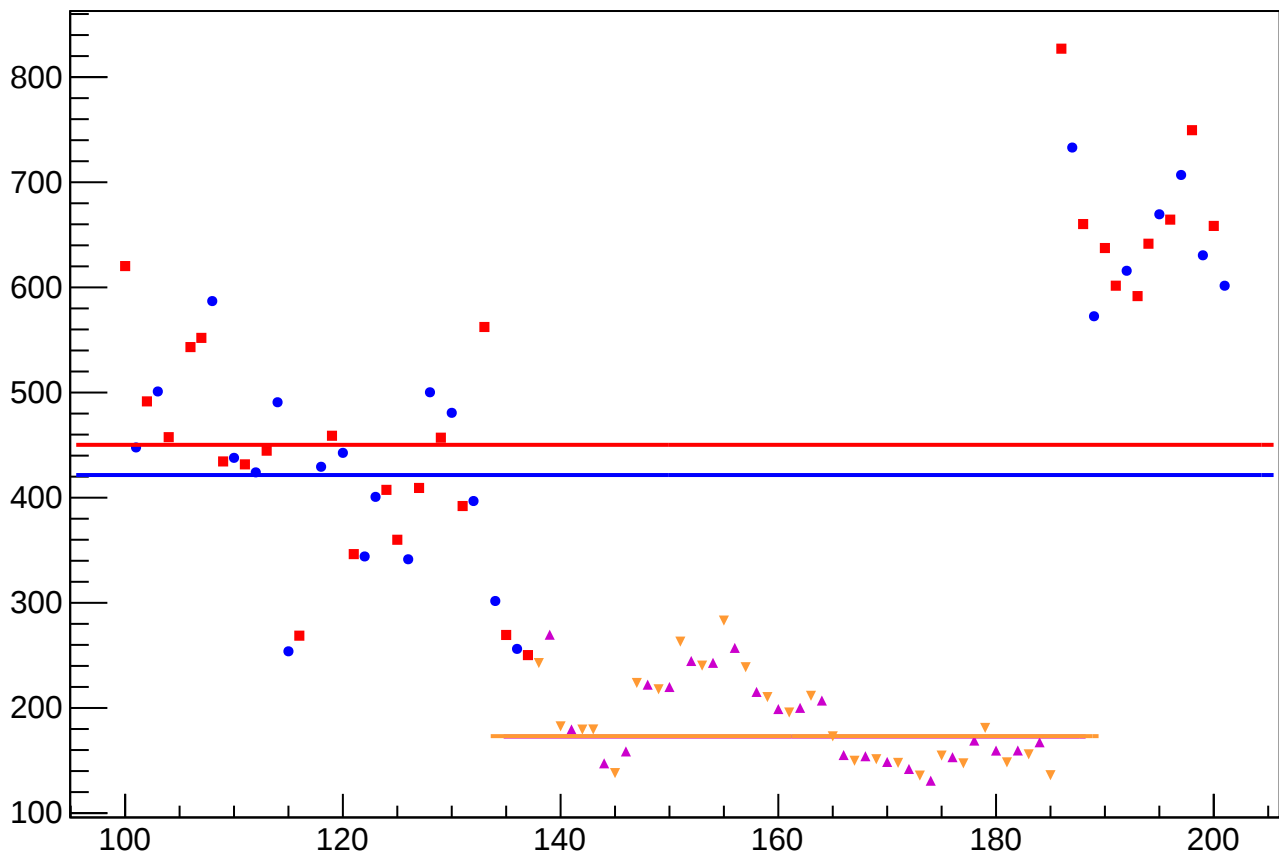
Right: -10.387 $\pm$ 93.326 χ^2 /NDF: 51.9/51

In: 7.318 $\pm$ 40.282 χ^2 /NDF: 57.2/46

Out: 146.659 $\pm$ 39.419 χ^2 /NDF: 98.0/52

All: 78.497 $\pm$ 28.174 χ^2 /NDF: 161.4/99

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 421.549+/-0.094 χ^2/NDF : 2191538.0/23

Left Out: 173.210+/-0.029 χ^2/NDF :1561250.6/24

Right Out: 450.266+/-0.093 χ^2/NDF : 2366629.7/27

Left In: 172.828+/-0.030 χ^2/NDF :1372131.7/22

Left: 173.023+/-0.021 χ^2/NDF : 2933465.9/47

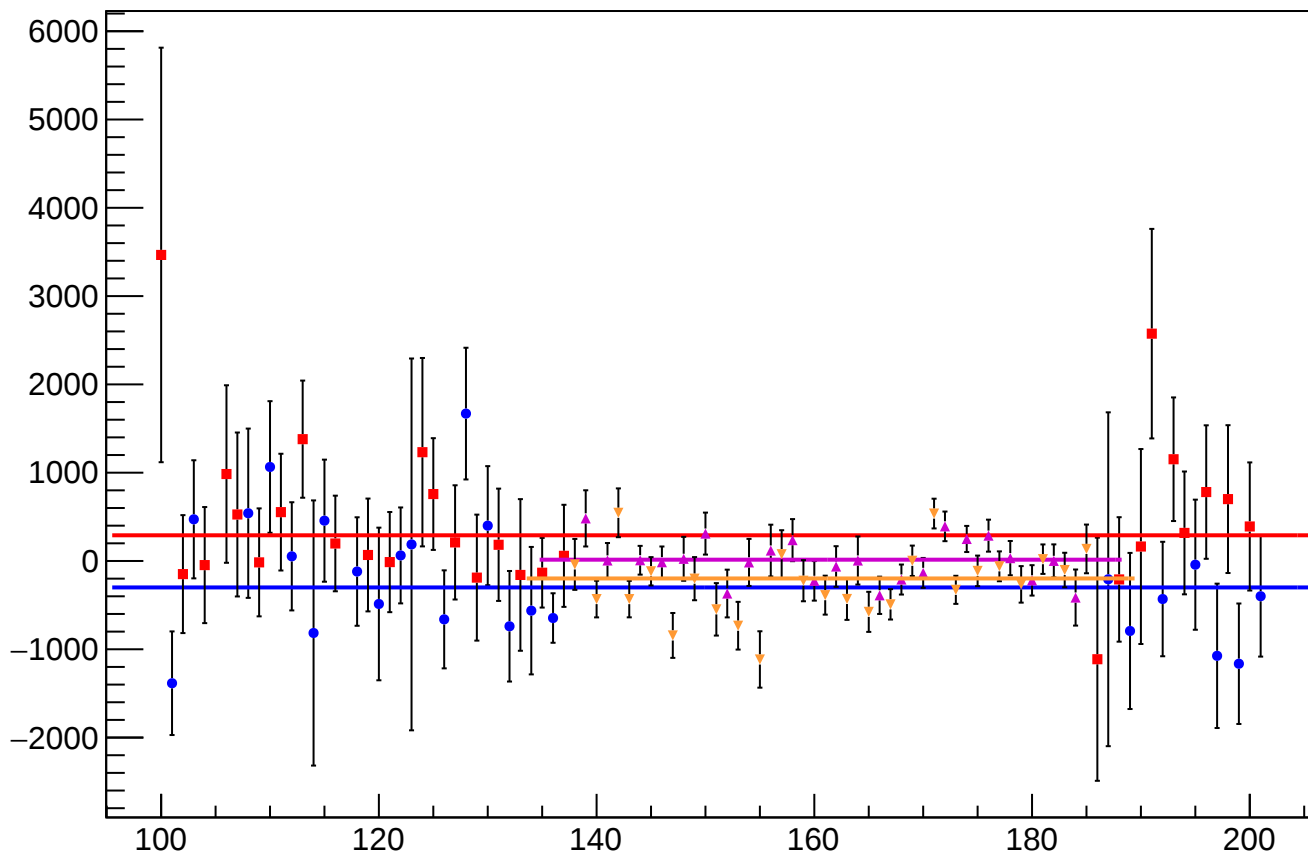
Right: 435.972+/-0.066 χ^2/NDF : 4605507.4/51

In: 195.892+/-0.028 χ^2/NDF :9978726.5/46

Out: 198.036+/-0.028 χ^2/NDF :11987414.7/52

All: 196.987+/-0.020 χ^2/NDF : 21969033.6/99

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -299.583 ± 132.649 χ^2/NDF : 24.8/23

Left Out: -197.918 ± 41.638 χ^2/NDF : 64.3/24

Right Out: 290.914 ± 132.080 χ^2/NDF : 17.5/27

Left In: 14.616 ± 42.629 χ^2/NDF : 27.7/22

Left: -94.151 ± 29.787 χ^2/NDF : 104.7/47

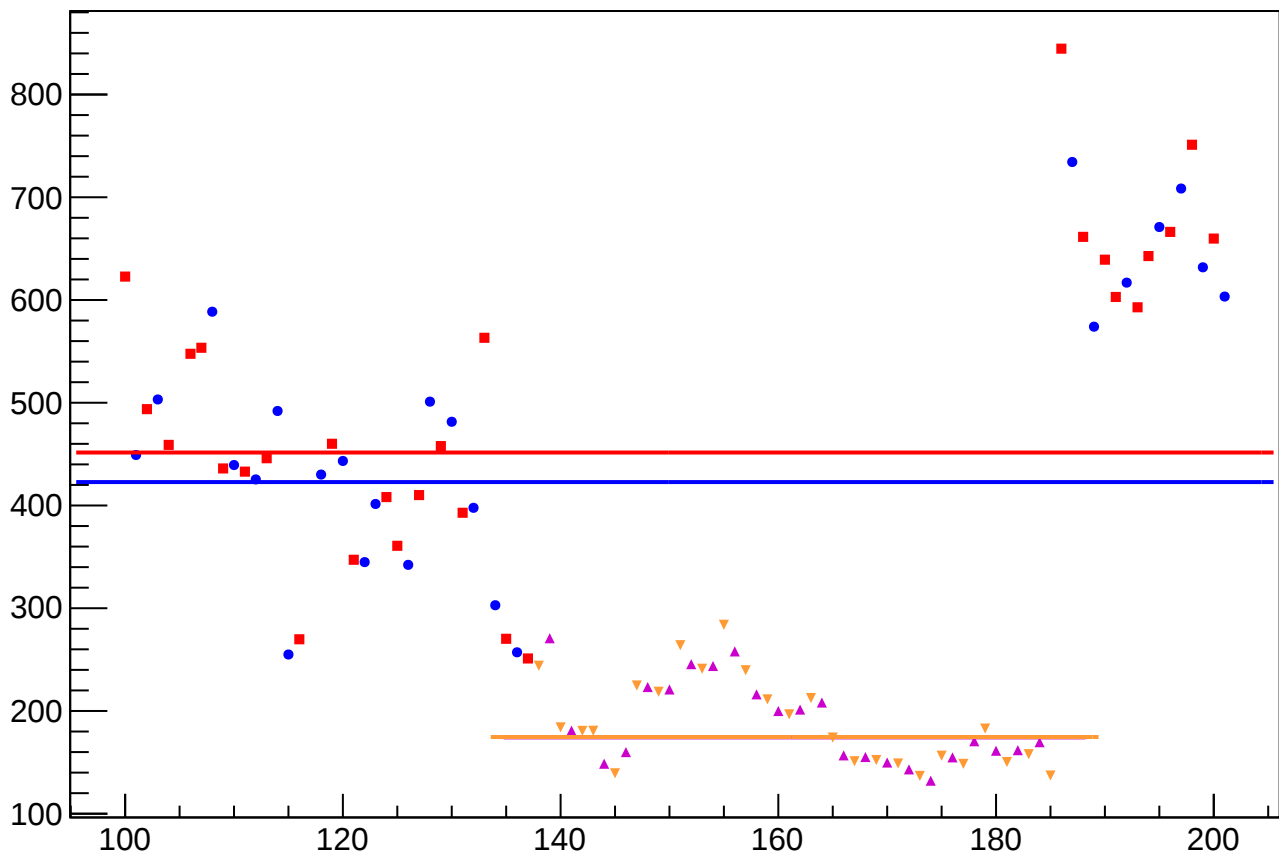
Right: -3.065 ± 93.595 χ^2/NDF : 52.2/51

In: -14.797 ± 40.585 χ^2/NDF : 57.6/46

Out: -153.728 ± 39.712 χ^2/NDF : 94.2/52

All: -85.774 ± 28.384 χ^2/NDF : 157.7/99

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 422.791 $\pm$ 0.094 χ^2 /NDF: 2185580.6/23

Left Out: 174.648 $\pm$ 0.029 χ^2 /NDF:1531999.5/24

Right Out: 451.558 $\pm$ 0.093 χ^2 /NDF: 2370019.3/27

Left In: 174.288 $\pm$ 0.030 χ^2 /NDF:1344779.5/22

Left: 174.472 $\pm$ 0.021 χ^2 /NDF: 2876851.9/47

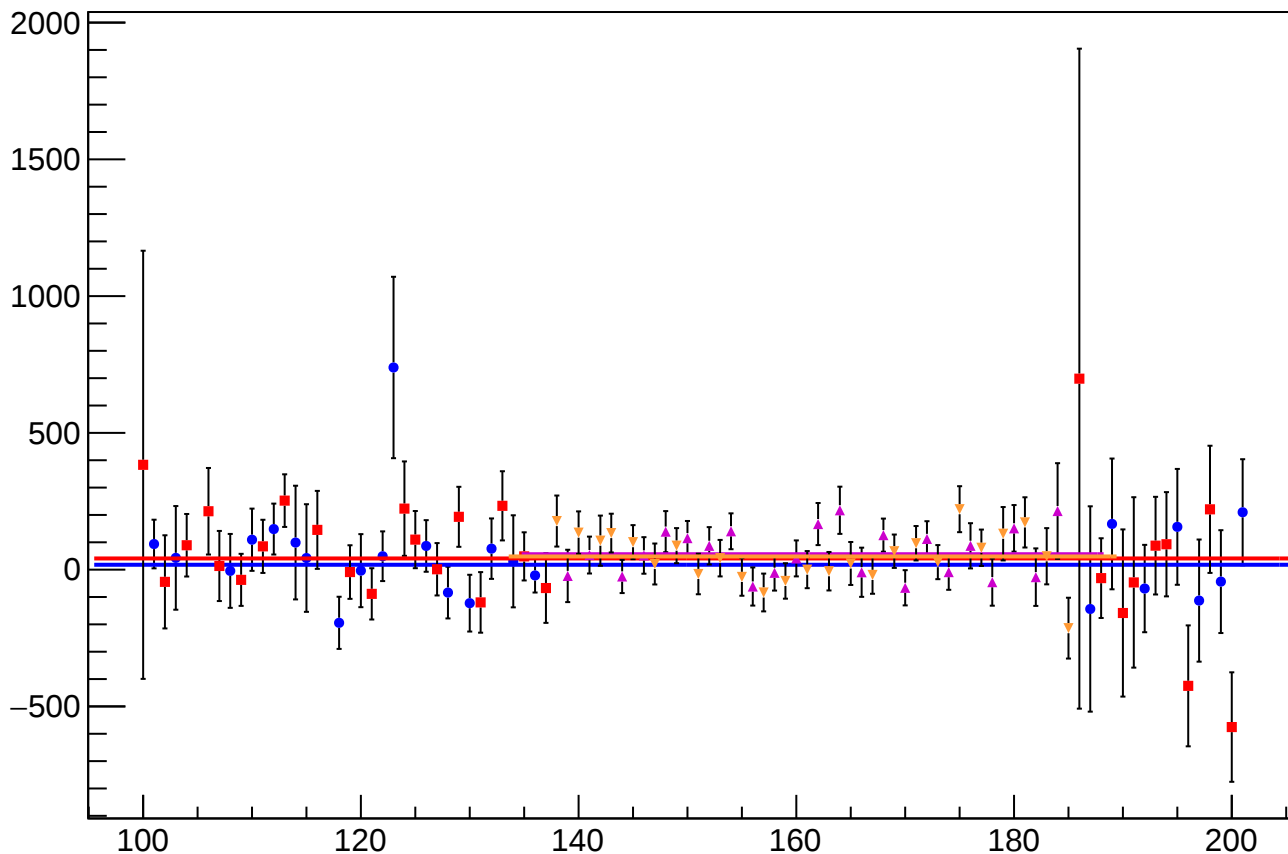
Right: 437.236 $\pm$ 0.066 χ^2 /NDF: 4602832.9/51

In: 197.551 $\pm$ 0.029 χ^2 /NDF:9892470.1/46

Out: 199.680 $\pm$ 0.028 χ^2 /NDF:11898286.7/52

All: 198.639 $\pm$ 0.020 χ^2 /NDF: 21793569.5/99

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 17.872 $\pm$ 25.012 χ^2 /NDF: 20.3/23

Left Out: 48.233 $\pm$ 14.616 χ^2 /NDF:29.3/24

Right Out: 40.914 $\pm$ 24.627 χ^2 /NDF: 34.8/27

Left In: 56.403 $\pm$ 15.182 χ^2 /NDF:27.5/22

Left: 52.163 $\pm$ 10.529 χ^2 /NDF: 56.9/47

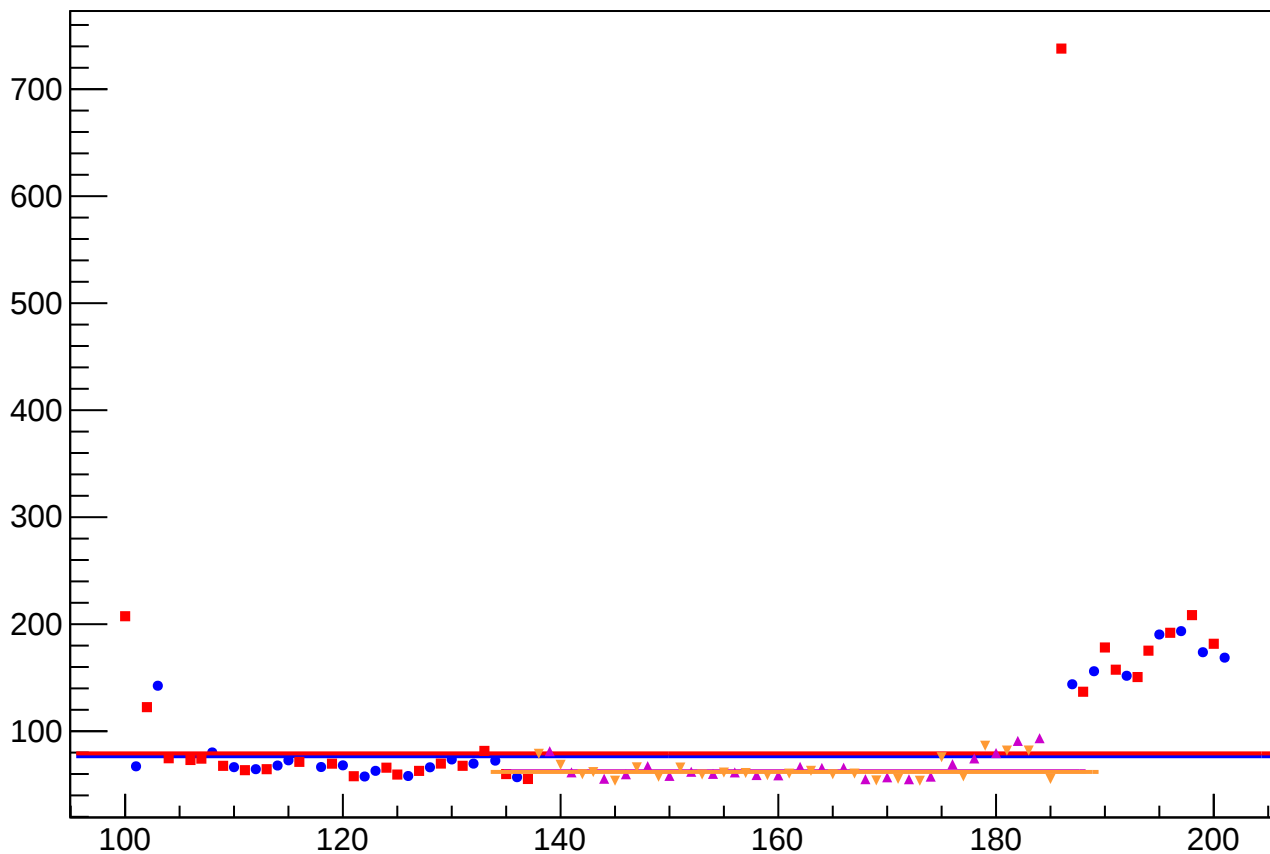
Right: 29.572 $\pm$ 17.548 χ^2 /NDF: 55.5/51

In: 46.029 $\pm$ 12.978 χ^2 /NDF:49.5/46

Out: 46.326 $\pm$ 12.569 χ^2 /NDF:64.1/52

All: 46.183 $\pm$ 9.029 χ^2 /NDF: 113.6/99

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 76.618 $\pm$ 0.018 χ^2 /NDF: 3588523.9/23

Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24

Right Out: 79.274 $\pm$ 0.017 χ^2 /NDF: 4529946.6/27

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

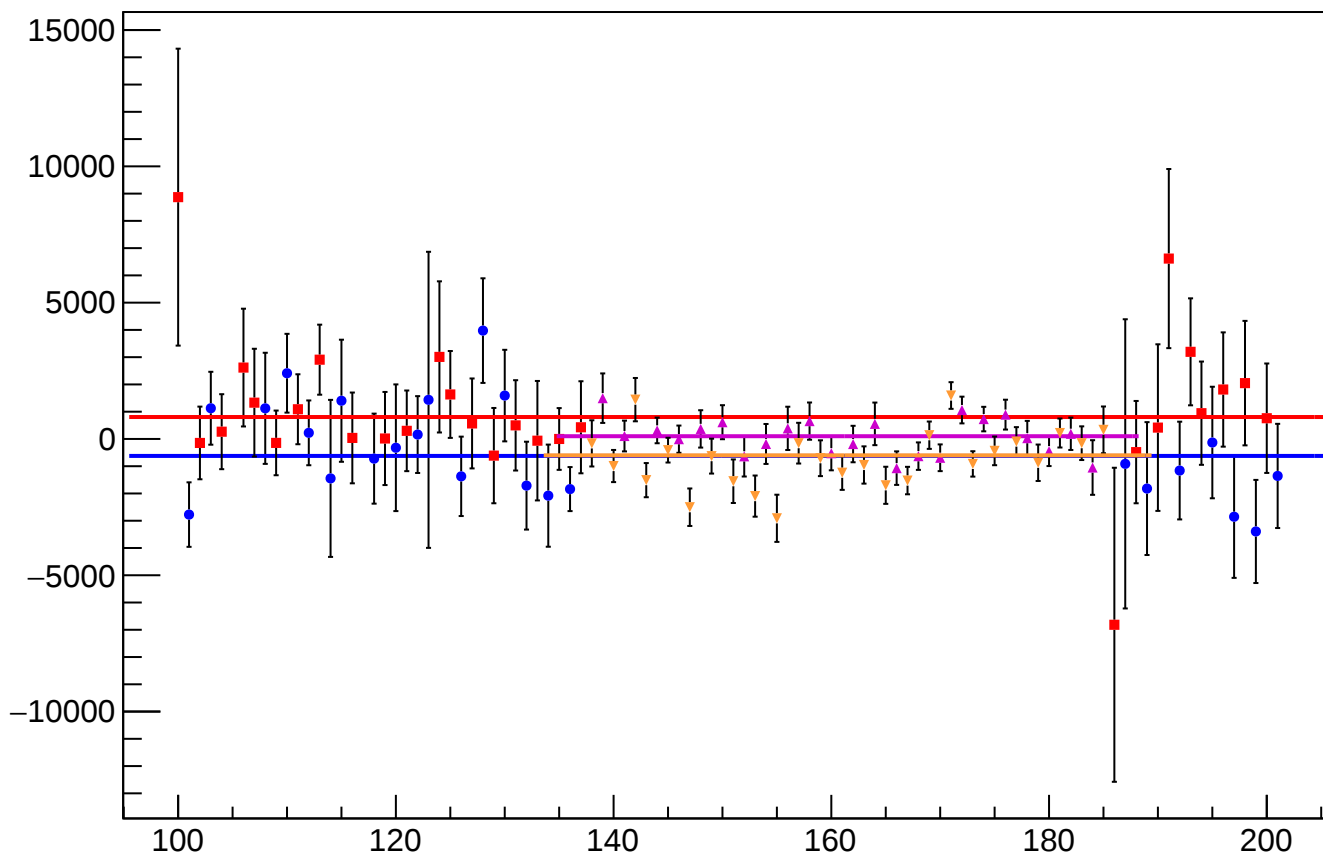
Right: 77.966 $\pm$ 0.012 χ^2 /NDF: 8129922.1/51

In: 66.379 $\pm$ 0.009 χ^2 /NDF: 4622620.2/46

Out: 66.460 $\pm$ 0.009 χ^2 /NDF: 5867143.8/52

All: 66.421 $\pm$ 0.006 χ^2 /NDF: 10489803.9/99

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -622.501+/-334.847 χ^2/NDF : 26.8/23

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 804.547+/-327.529 χ^2/NDF : 17.3/27

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

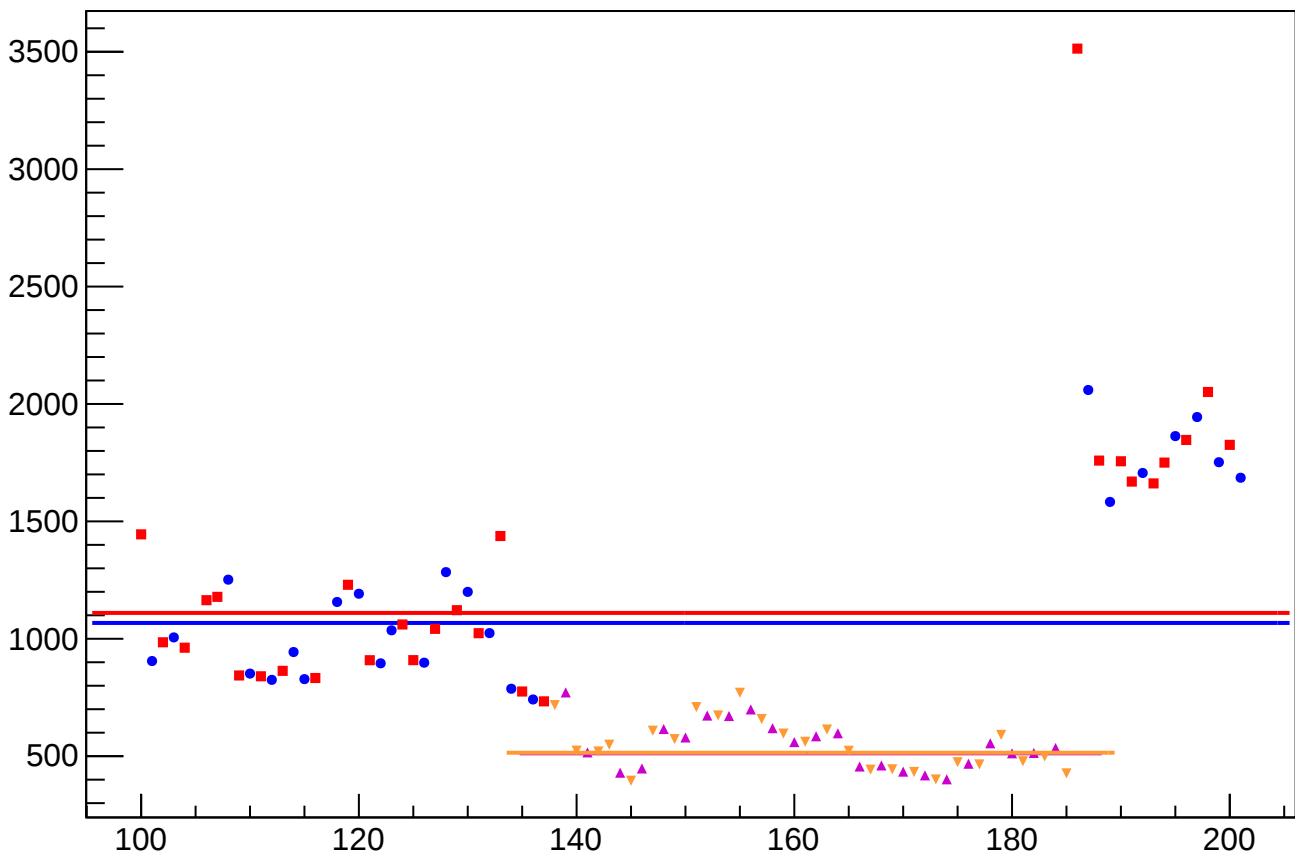
Right: 106.787+/-234.143 χ^2/NDF : 53.3/51

In: 12.452+/-116.880 χ^2/NDF : 56.4/46

Out: -429.881+/-114.424 χ^2/NDF : 98.8/52

All: -213.411+/-81.764 χ^2/NDF : 162.5/99

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1067.454+/-0.237 χ^2/NDF : 2184251.8/23

Left Out: 514.758+/-0.086 χ^2/NDF :1194945.9/24

Right Out: 1110.142+/-0.232 χ^2/NDF : 2739841.7/27

Left In: 512.199+/-0.088 χ^2/NDF :1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

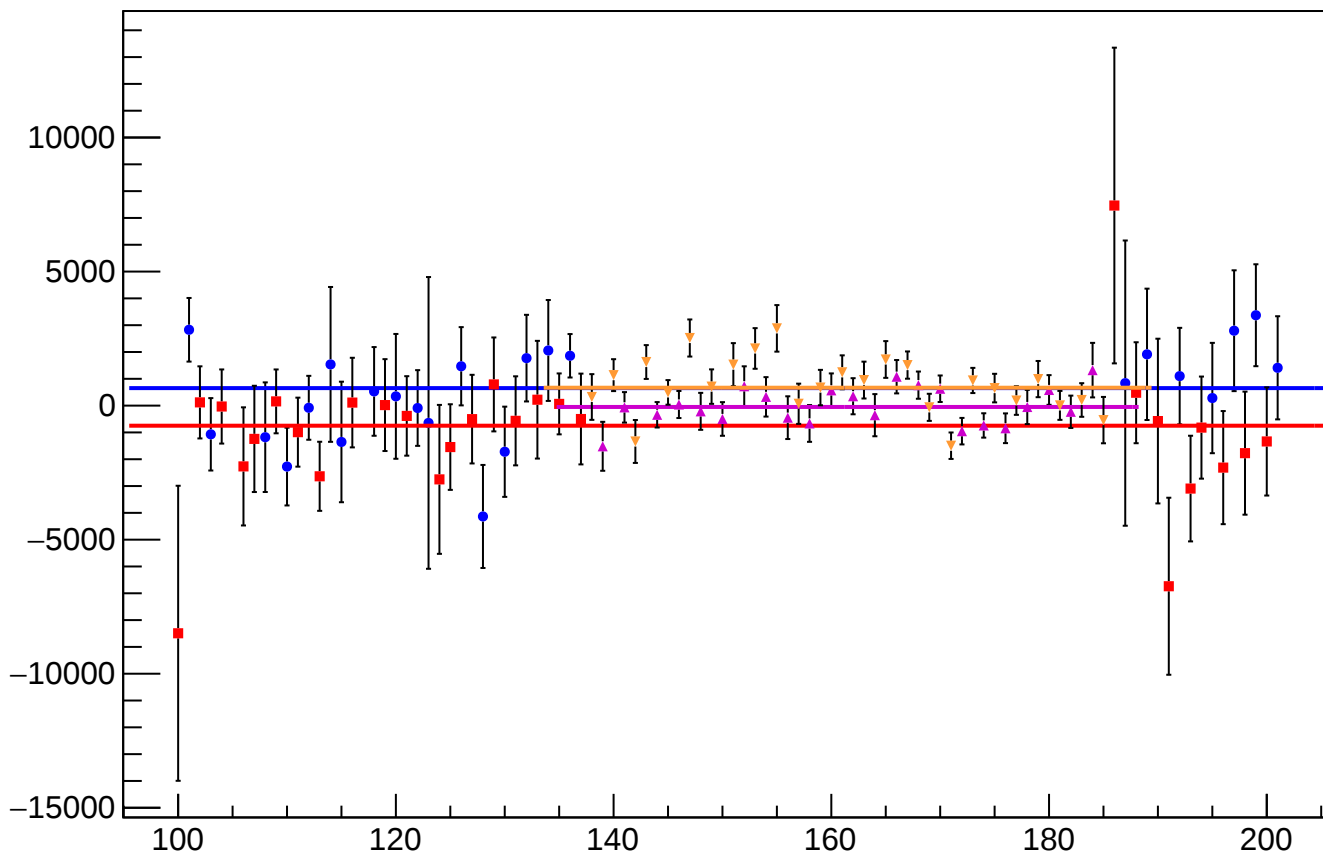
Right: 1089.270+/-0.166 χ^2/NDF : 4940705.4/51

In: 579.851+/-0.083 χ^2/NDF :8054975.5/46

Out: 587.424+/-0.081 χ^2/NDF :9737023.1/52

All: 583.718+/-0.058 χ^2/NDF : 17796285.8/99

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 652.940 $\pm$ 336.089 χ^2 /NDF: 26.7/23

Left Out: 667.625 $\pm$ 123.146 χ^2 /NDF:61.5/24

Right Out: -749.332 $\pm$ 328.909 χ^2 /NDF: 16.7/27

Left In: -50.079 $\pm$ 125.805 χ^2 /NDF:26.1/22

Left: 316.439 $\pm$ 88.002 χ^2 /NDF: 104.2/47

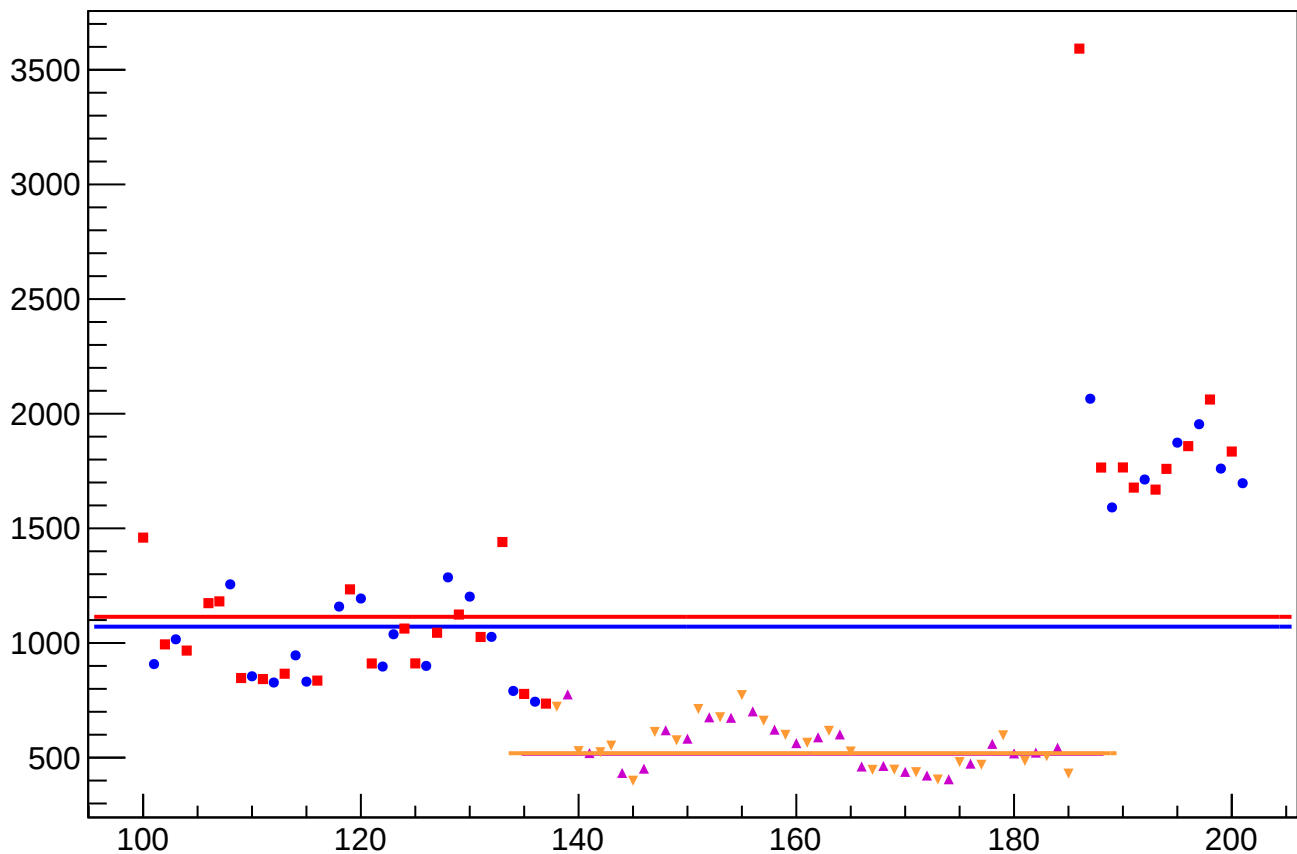
Right: -63.336 $\pm$ 235.071 χ^2 /NDF: 52.3/51

In: 36.319 $\pm$ 117.821 χ^2 /NDF:56.6/46

Out: 493.416 $\pm$ 115.327 χ^2 /NDF:94.5/52

All: 269.756 $\pm$ 82.416 χ^2 /NDF: 158.8/99

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1071.250+/-0.238 χ^2/NDF : 2190862.6/23

Left Out: 519.254+/-0.087 χ^2/NDF :1172411.1/24

Right Out: 1114.176+/-0.233 χ^2/NDF : 2753673.0/27

Left In: 516.792+/-0.089 χ^2/NDF :1021374.1/22

Left: 518.049+/-0.062 χ^2/NDF : 2194176.4/47

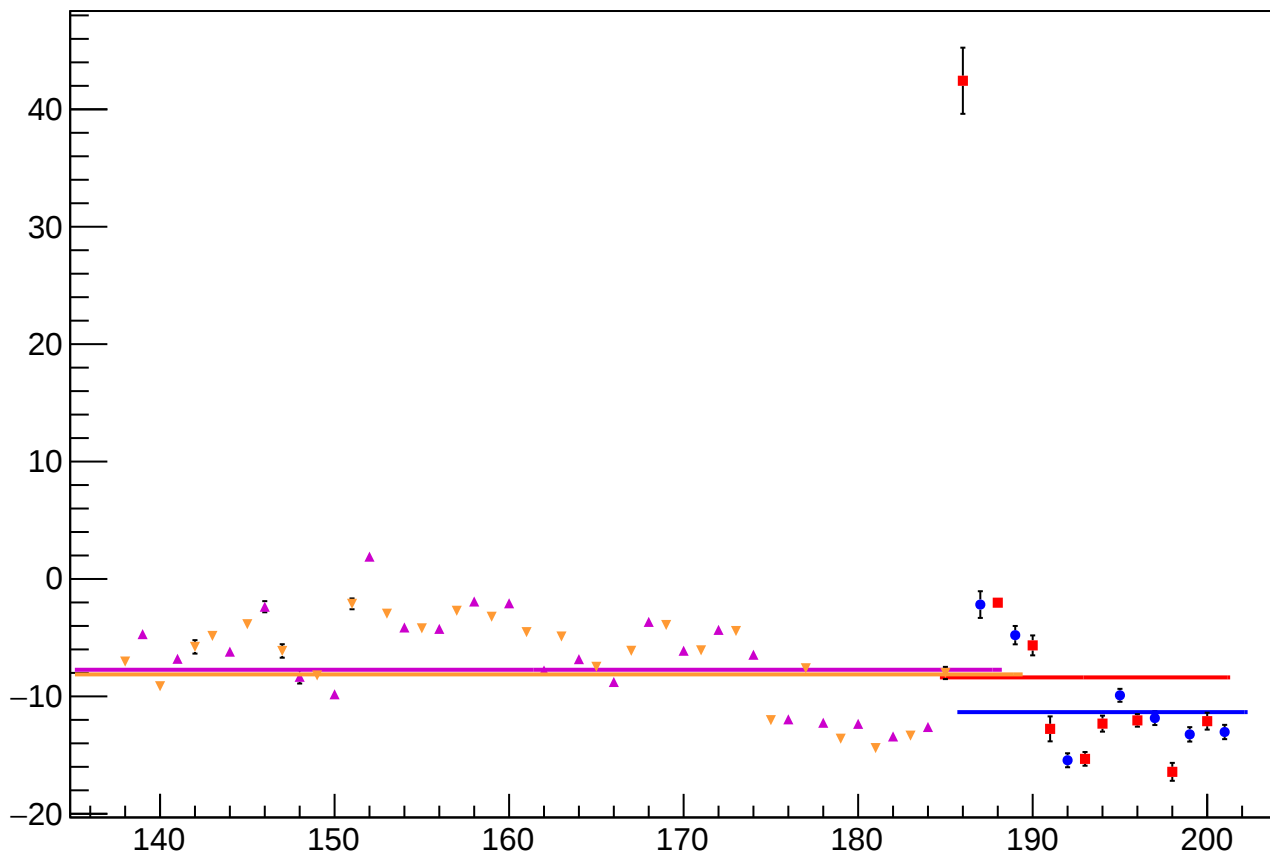
Right: 1093.177+/-0.166 χ^2/NDF : 4961200.3/51

In: 584.932+/-0.083 χ^2/NDF :7986535.4/46

Out: 592.397+/-0.082 χ^2/NDF :9664937.8/52

All: 588.745+/-0.058 χ^2/NDF : 17655572.8/99

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.341 ± 0.245 χ^2/NDF : 207.2/6

Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24

Right Out: -8.383 ± 0.206 χ^2/NDF : 1070.7/8

Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47

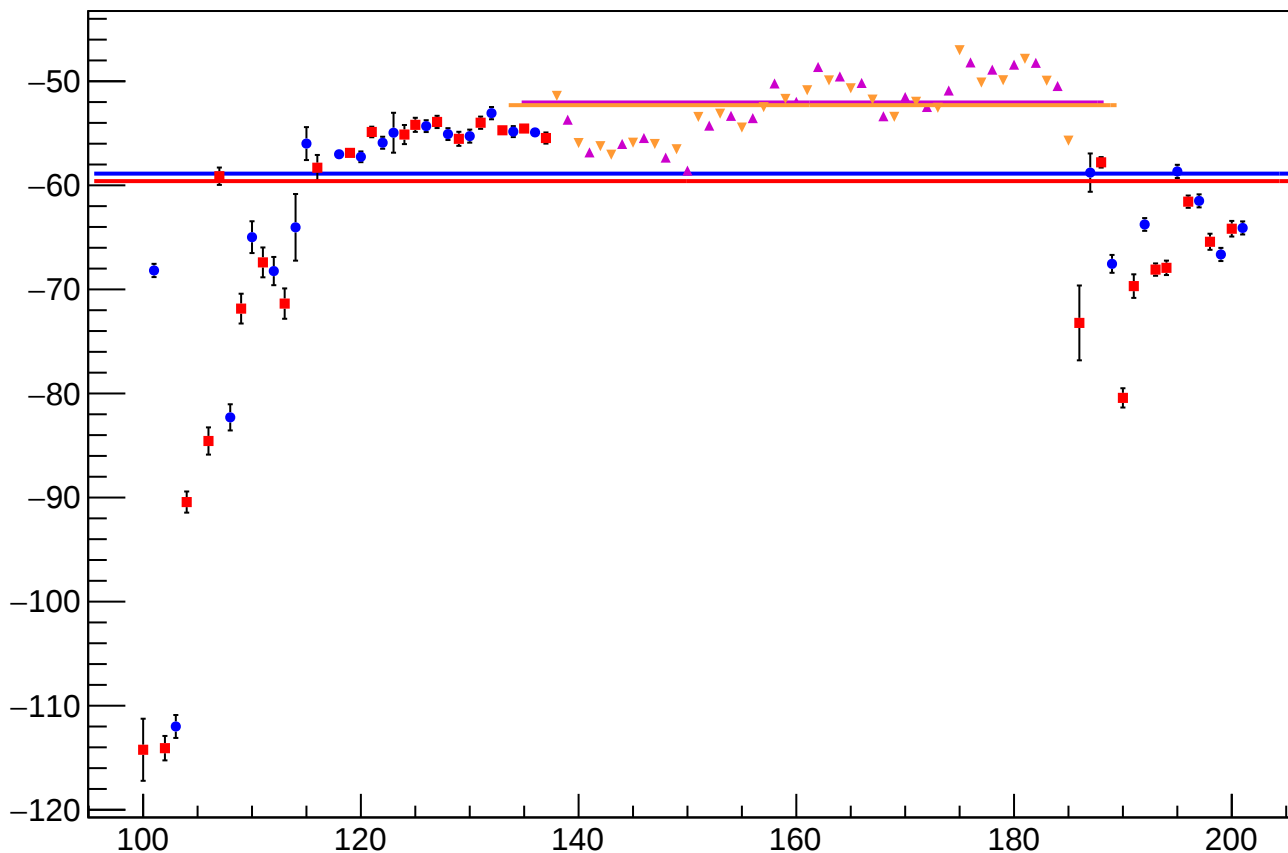
Right: -9.612 ± 0.158 χ^2/NDF : 1363.3/15

In: -7.997 ± 0.066 χ^2/NDF : 4127.8/29

Out: -8.152 ± 0.064 χ^2/NDF : 4707.6/33

All: -8.077 ± 0.046 χ^2/NDF : 8838.2/63

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.875 $\pm$ 0.126 χ^2 /NDF: 3943.2/23

Left Out: -52.297 $\pm$ 0.055 χ^2 /NDF: 2657.5/24

Right Out: -59.595 $\pm$ 0.123 χ^2 /NDF: 5937.4/27

Left In: -52.038 $\pm$ 0.057 χ^2 /NDF: 3180.4/22

Left: -52.172 $\pm$ 0.040 χ^2 /NDF: 5848.6/47

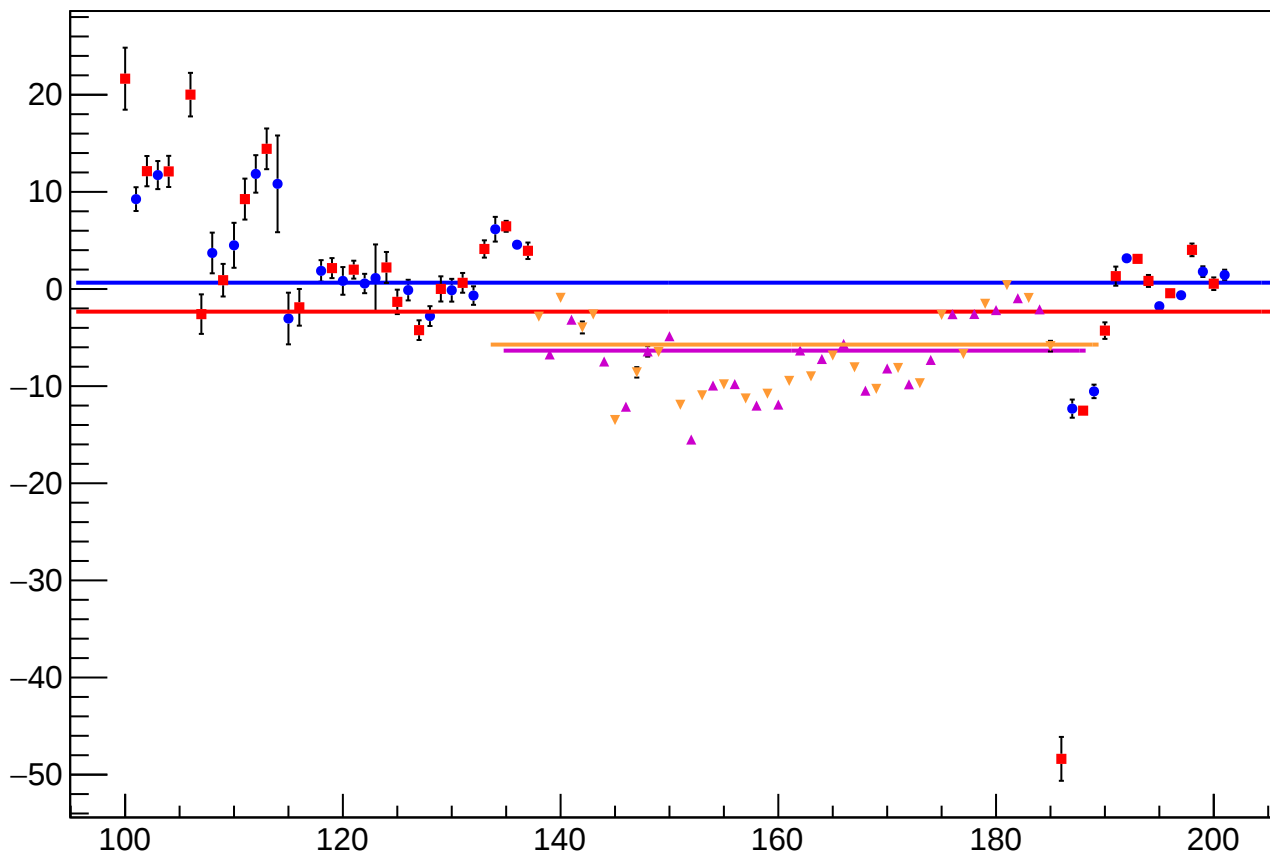
Right: -59.243 $\pm$ 0.088 χ^2 /NDF: 9897.4/51

In: -53.207 $\pm$ 0.052 χ^2 /NDF: 9569.7/46

Out: -53.513 $\pm$ 0.050 χ^2 /NDF: 11523.7/52

All: -53.365 $\pm$ 0.036 χ^2 /NDF: 21111.4/99

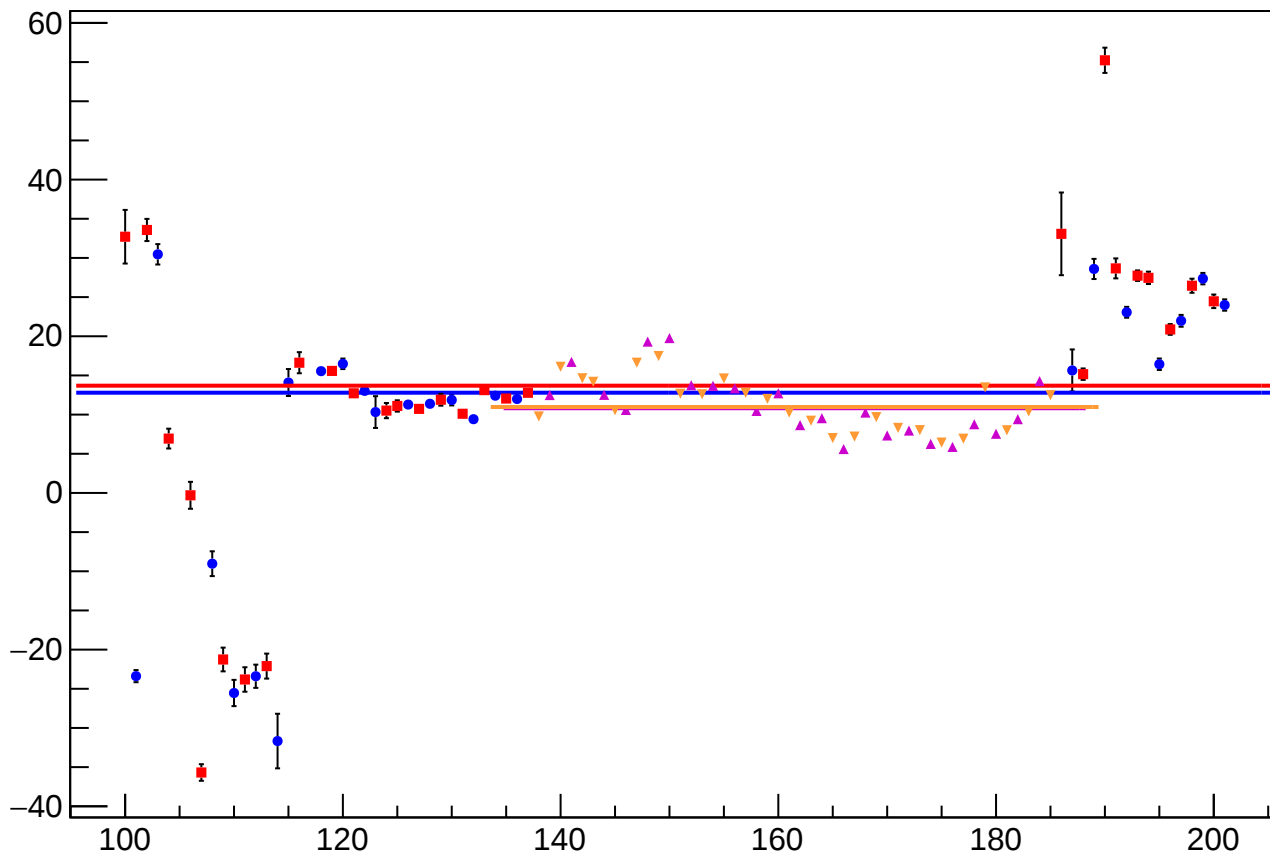
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.651 ± 0.164 $\chi^2/\text{NDF}: 795.0/23$
 Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$
 Right Out: -2.330 ± 0.147 $\chi^2/\text{NDF}: 2944.3/27$
 Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$
 Right: -1.003 ± 0.110 $\chi^2/\text{NDF}: 3921.8/51$
 In: -5.306 ± 0.063 $\chi^2/\text{NDF}: 5721.0/46$
 Out: -5.131 ± 0.061 $\chi^2/\text{NDF}: 7366.0/52$
 All: -5.216 ± 0.044 $\chi^2/\text{NDF}: 13090.8/99$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.796 $\pm$ 0.141 χ^2 /NDF: 5130.2/23

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF: 2637.7/24

Right Out: 13.692 $\pm$ 0.141 χ^2 /NDF: 6269.5/27

Left In: 10.813 $\pm$ 0.063 χ^2 /NDF: 3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47

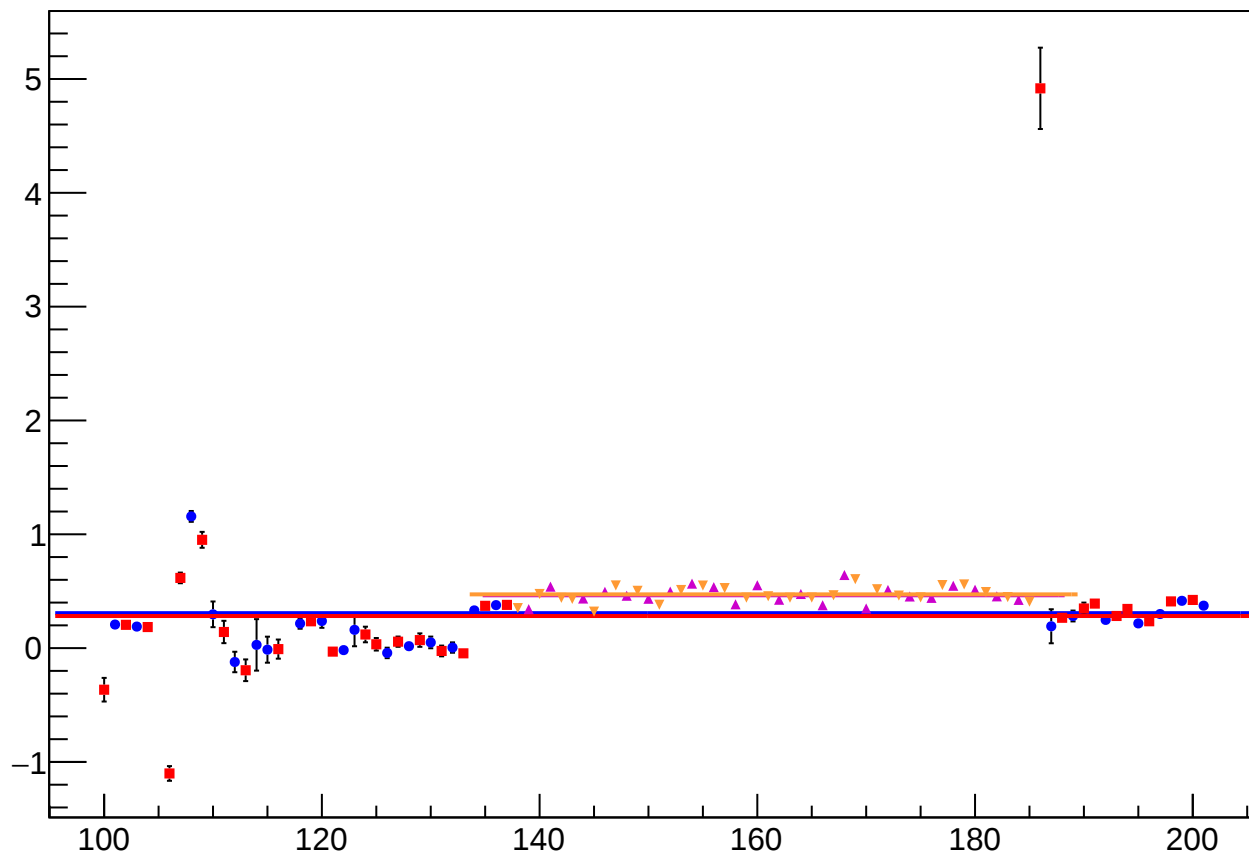
Right: 13.245 $\pm$ 0.100 χ^2 /NDF: 11419.8/51

In: 11.144 $\pm$ 0.058 χ^2 /NDF: 8841.4/46

Out: 11.402 $\pm$ 0.056 χ^2 /NDF: 9221.5/52

All: 11.276 $\pm$ 0.040 χ^2 /NDF: 18073.2/99

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.307 $\pm$ 0.006 χ^2 /NDF: 710.0/23

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF: 519.0/24

Right Out: 0.282 $\pm$ 0.006 χ^2 /NDF: 1255.7/27

Left In: 0.464 $\pm$ 0.003 χ^2 /NDF: 733.1/22

Left: 0.468 $\pm$ 0.002 χ^2 /NDF: 1256.2/47

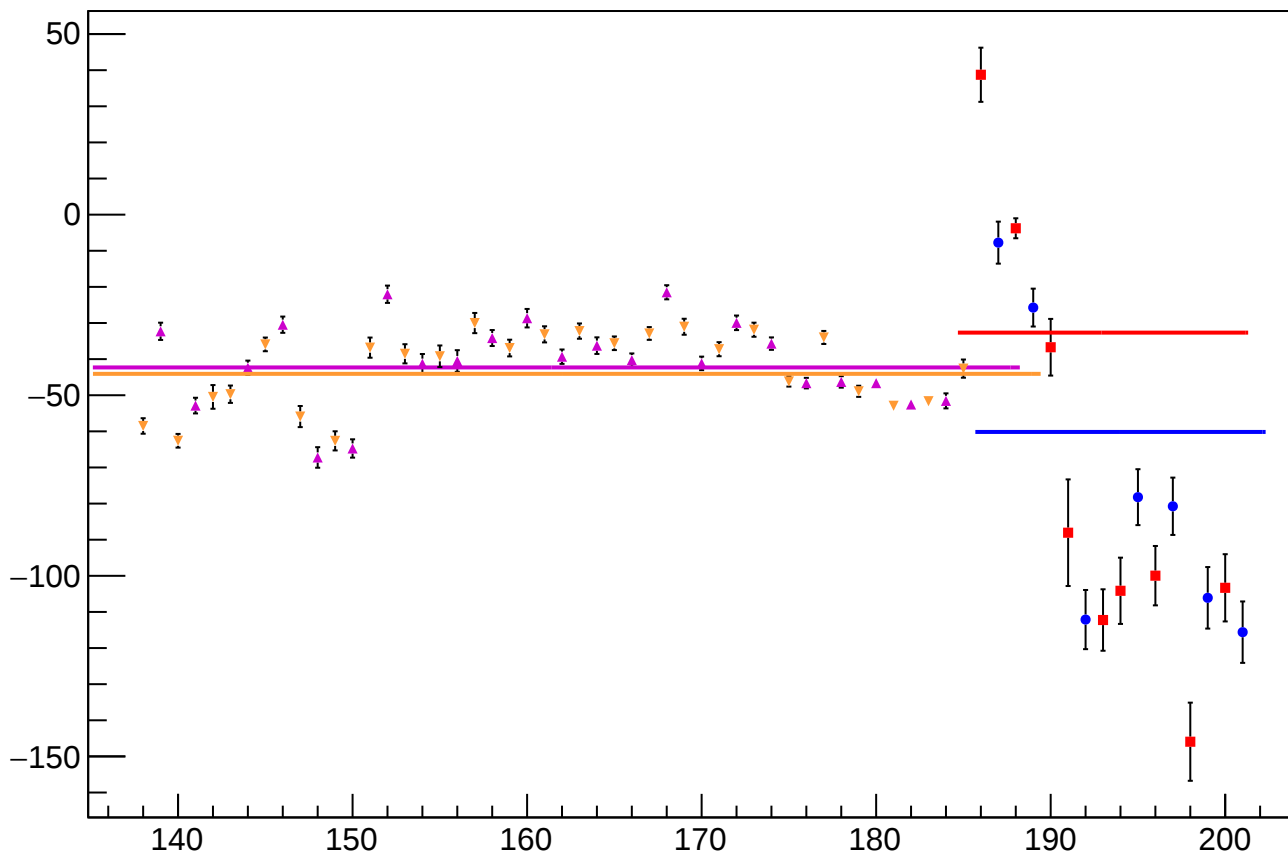
Right: 0.295 $\pm$ 0.004 χ^2 /NDF: 1973.7/51

In: 0.438 $\pm$ 0.003 χ^2 /NDF: 1975.7/46

Out: 0.441 $\pm$ 0.003 χ^2 /NDF: 2543.2/52

All: 0.440 $\pm$ 0.002 χ^2 /NDF: 4519.8/99

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -60.162 ± 2.663 $\chi^2/\text{NDF}: 248.3/6$

Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$

Right Out: -32.663 ± 2.085 $\chi^2/\text{NDF}: 596.6/8$

Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$

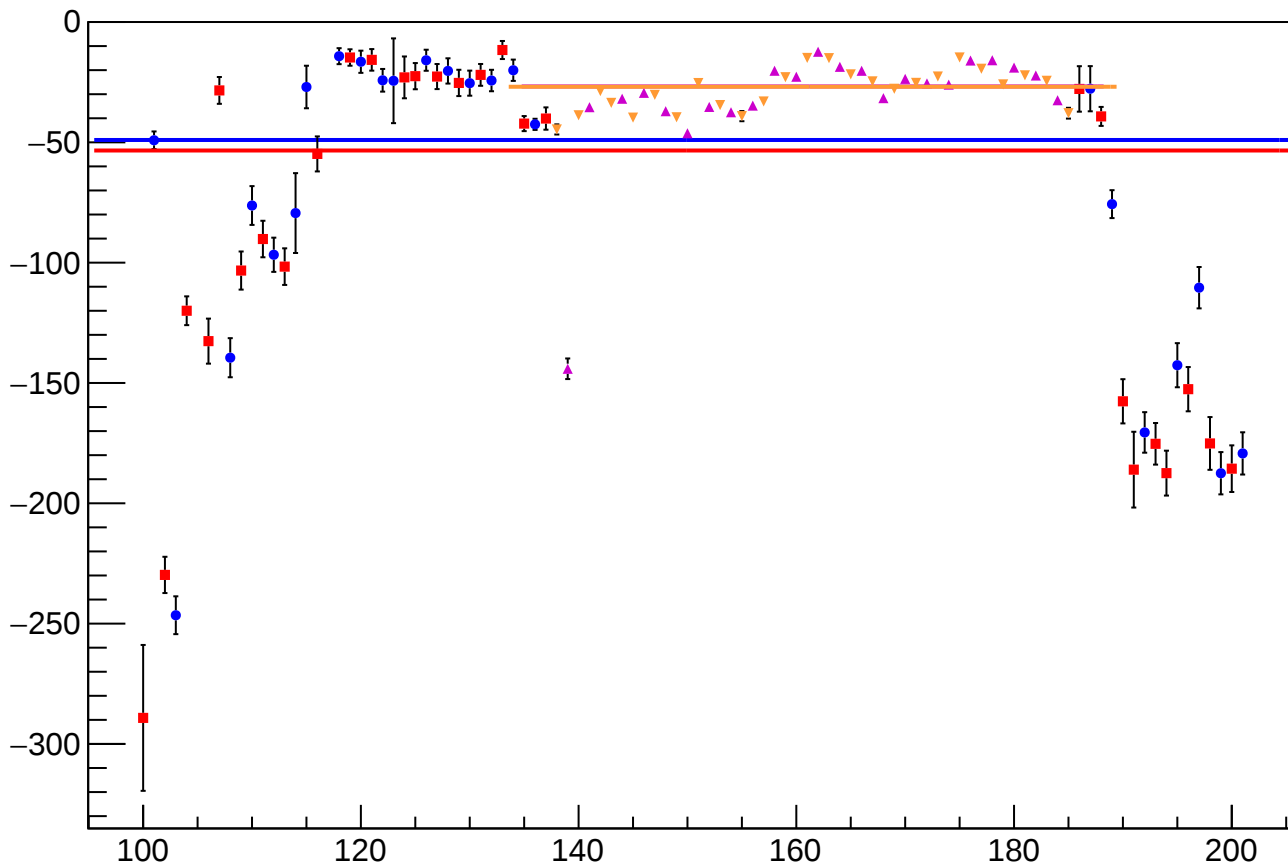
Right: -43.117 ± 1.642 $\chi^2/\text{NDF}: 911.0/15$

In: -42.696 ± 0.395 $\chi^2/\text{NDF}: 933.0/29$

Out: -43.694 ± 0.382 $\chi^2/\text{NDF}: 1258.1/33$

All: -43.212 ± 0.275 $\chi^2/\text{NDF}: 2194.3/63$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -49.021 ± 1.076 χ^2/NDF : 2058.5/23

Left Out: -26.902 ± 0.316 χ^2/NDF : 631.0/24

Right Out: -53.393 ± 1.099 χ^2/NDF : 2475.8/27

Left In: -26.774 ± 0.326 χ^2/NDF : 1394.5/22

Left: -26.840 ± 0.227 χ^2/NDF : 2025.6/47

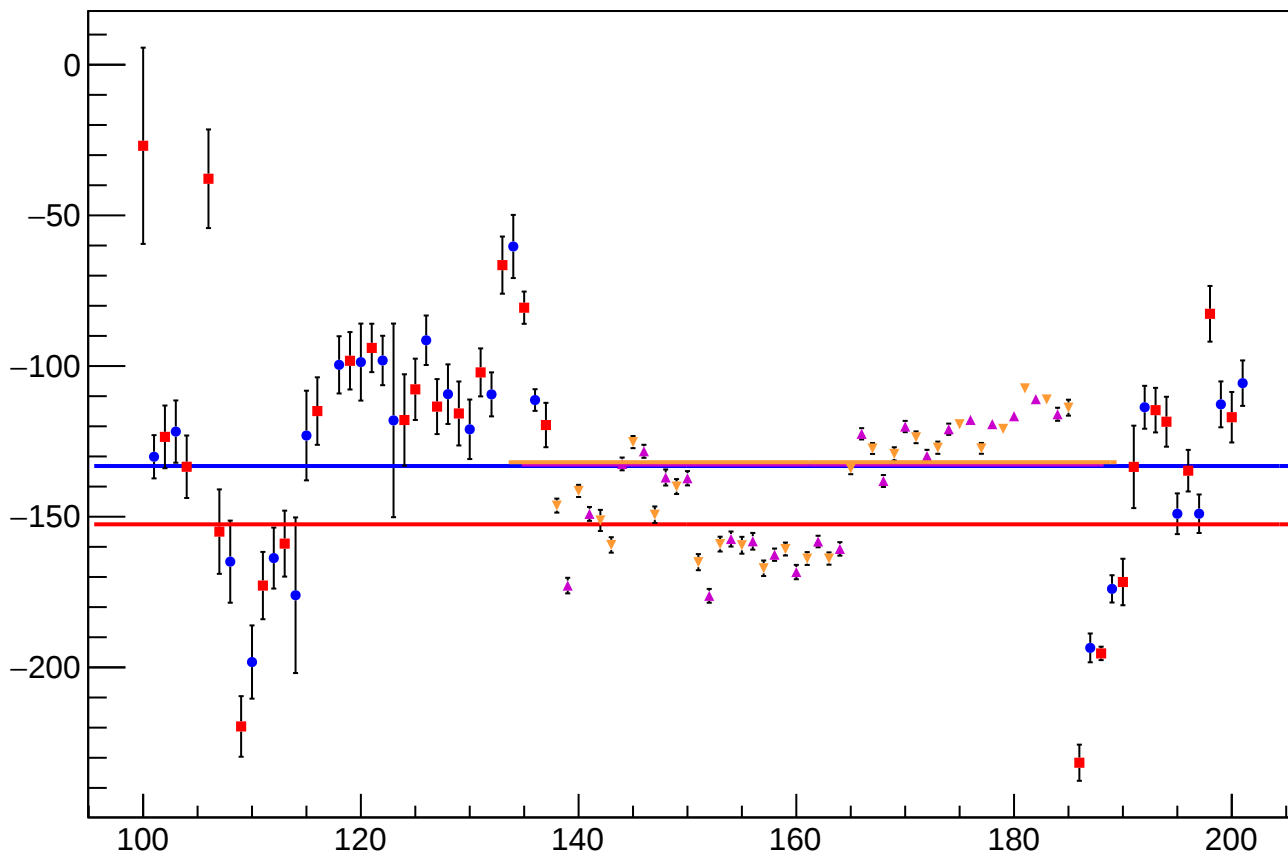
Right: -51.162 ± 0.769 χ^2/NDF : 4542.4/51

In: -28.646 ± 0.312 χ^2/NDF : 3844.3/46

Out: -28.928 ± 0.304 χ^2/NDF : 3643.4/52

All: -28.791 ± 0.218 χ^2/NDF : 7488.2/99

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -133.176 ± 1.536 $\chi^2/\text{NDF}: 495.6/23$

Left Out: -131.912 ± 0.391 $\chi^2/\text{NDF}: 2439.3/24$

Right Out: -152.526 ± 1.367 $\chi^2/\text{NDF}: 1274.5/27$

Left In: -132.690 ± 0.399 $\chi^2/\text{NDF}: 2480.2/22$

Left: -132.293 ± 0.280 $\chi^2/\text{NDF}: 4921.5/47$

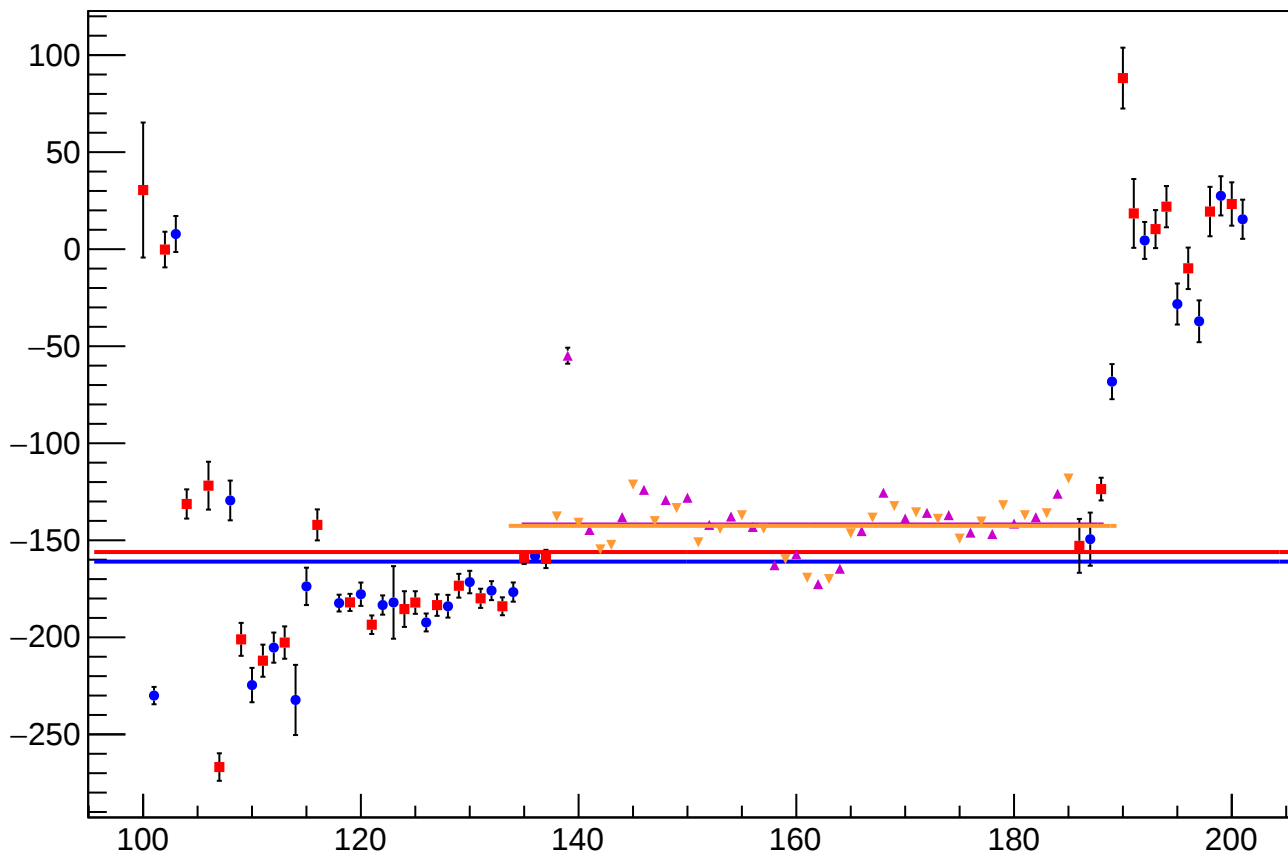
Right: -143.975 ± 1.021 $\chi^2/\text{NDF}: 1858.6/51$

In: -132.720 ± 0.387 $\chi^2/\text{NDF}: 2975.9/46$

Out: -133.475 ± 0.376 $\chi^2/\text{NDF}: 3924.0/52$

All: -133.108 ± 0.270 $\chi^2/\text{NDF}: 6901.8/99$

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -160.993 ± 1.215 χ^2/NDF : 2171.2/23

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -156.051 ± 1.264 χ^2/NDF : 2482.0/27

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

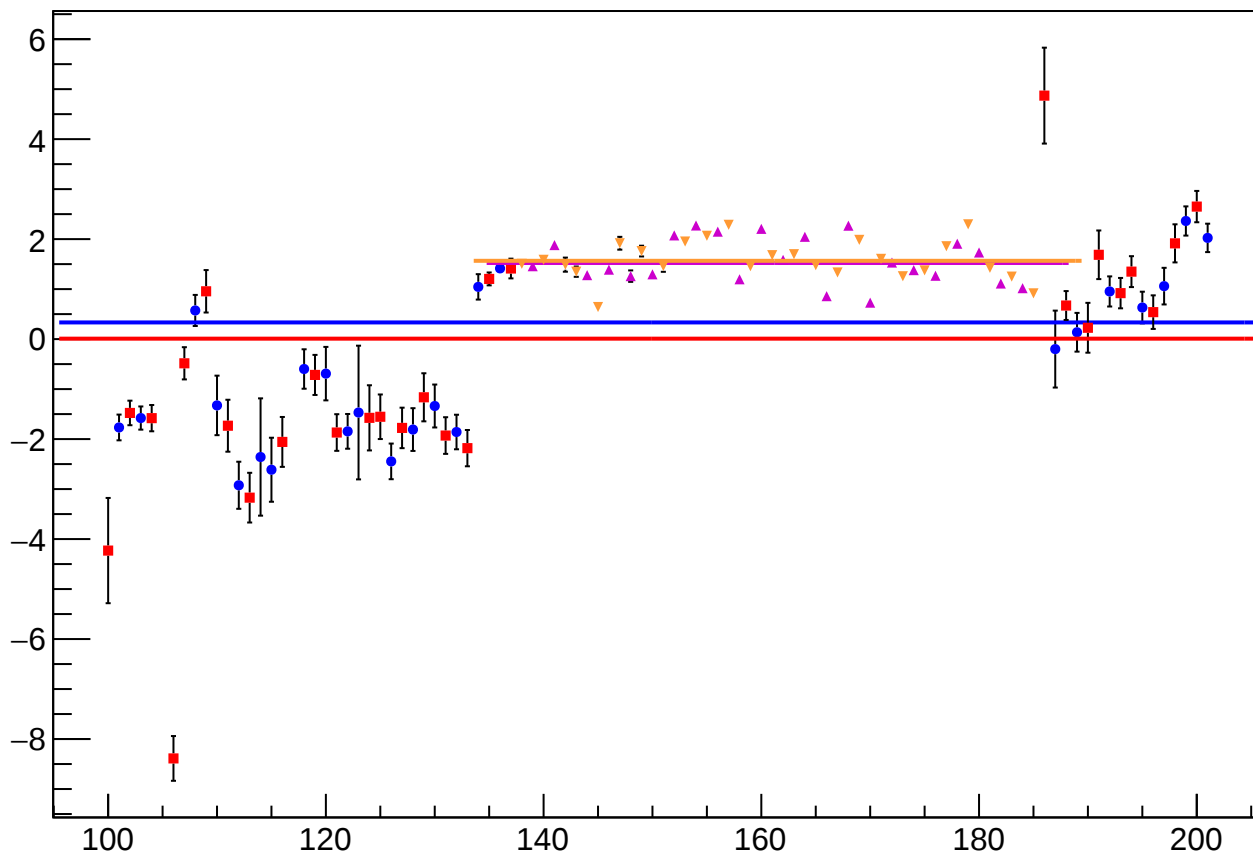
Right: -158.620 ± 0.876 χ^2/NDF : 4661.1/51

In: -143.430 ± 0.348 χ^2/NDF : 3943.1/46

Out: -143.544 ± 0.341 χ^2/NDF : 3735.2/52

All: -143.489 ± 0.244 χ^2/NDF : 7678.3/99

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.333 $\pm$ 0.059 χ^2 /NDF: 633.7/23

Left Out: 1.566 $\pm$ 0.016 χ^2 /NDF:542.8/24

Right Out: 0.009 $\pm$ 0.061 χ^2 /NDF: 961.2/27

Left In: 1.523 $\pm$ 0.017 χ^2 /NDF:738.5/22

Left: 1.545 $\pm$ 0.012 χ^2 /NDF: 1284.8/47

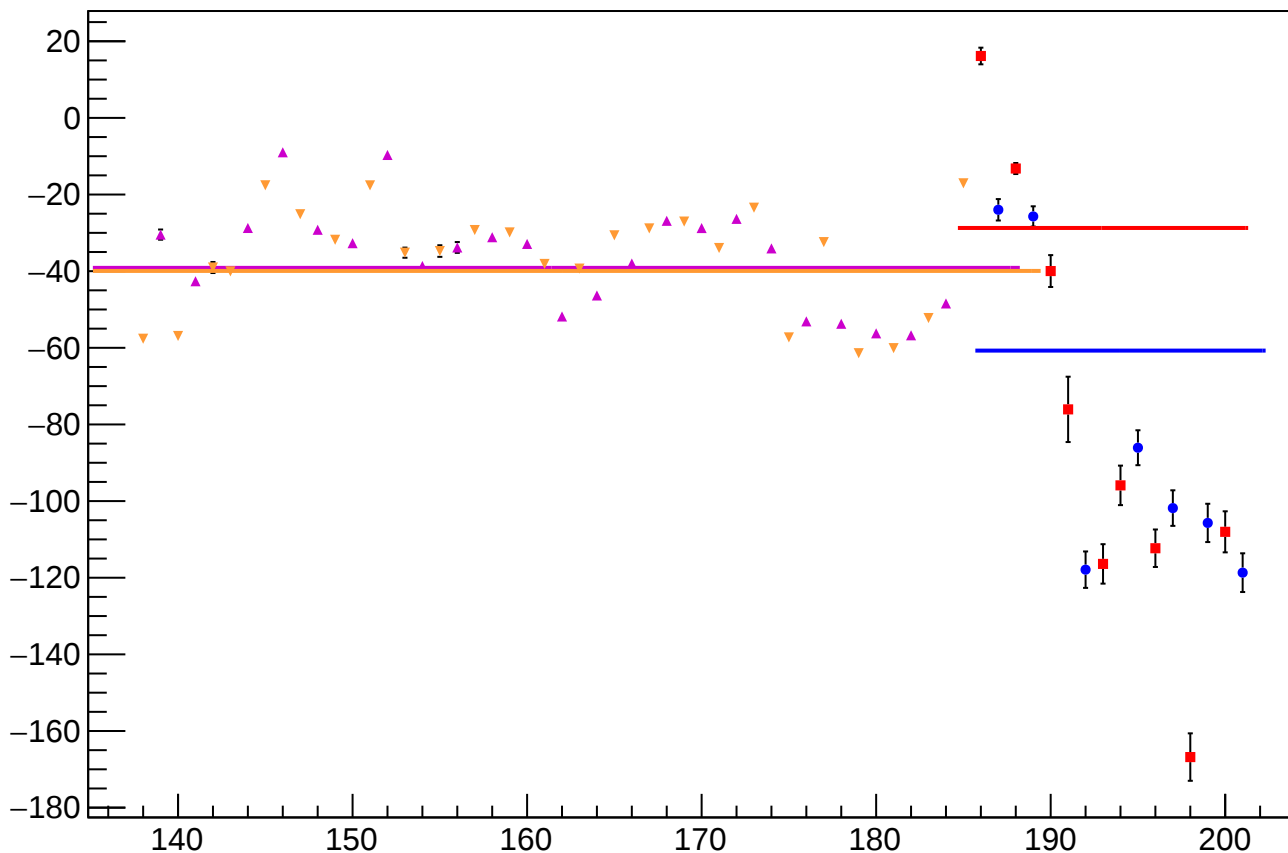
Right: 0.176 $\pm$ 0.043 χ^2 /NDF: 1609.3/51

In: 1.438 $\pm$ 0.016 χ^2 /NDF:1743.3/46

Out: 1.465 $\pm$ 0.016 χ^2 /NDF:2104.3/52

All: 1.452 $\pm$ 0.011 χ^2 /NDF: 3849.1/99

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -60.728 ± 1.429 $\chi^2/\text{NDF}: 815.4/6$

Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$

Right Out: -28.724 ± 1.029 $\chi^2/\text{NDF}: 2049.2/8$

Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

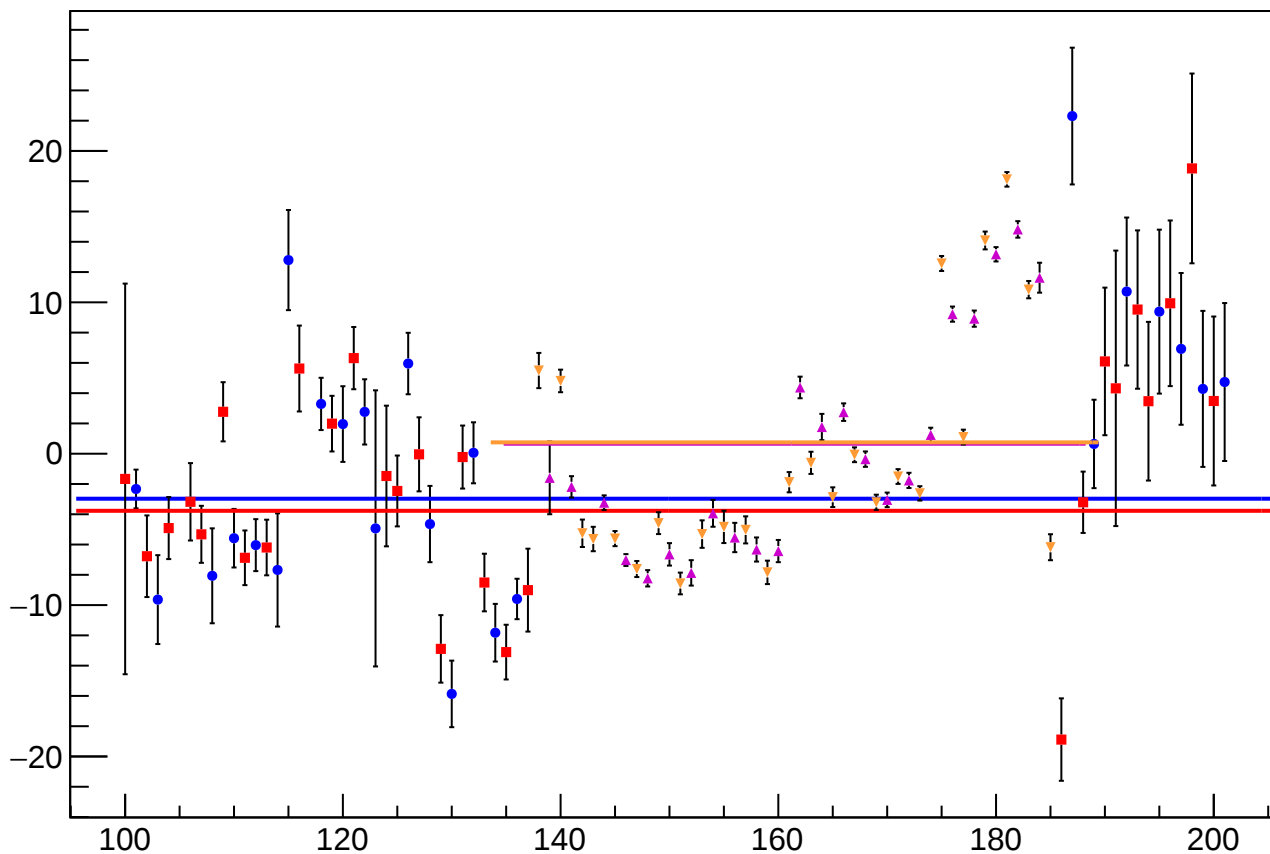
Right: -39.654 ± 0.835 $\chi^2/\text{NDF}: 3194.9/15$

In: -39.387 ± 0.154 $\chi^2/\text{NDF}: 9575.5/29$

Out: -39.692 ± 0.152 $\chi^2/\text{NDF}: 11971.9/33$

All: -39.542 ± 0.108 $\chi^2/\text{NDF}: 21549.4/63$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.972 ± 0.478 $\chi^2/\text{NDF}: 218.2/23$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.771 ± 0.473 $\chi^2/\text{NDF}: 187.3/27$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

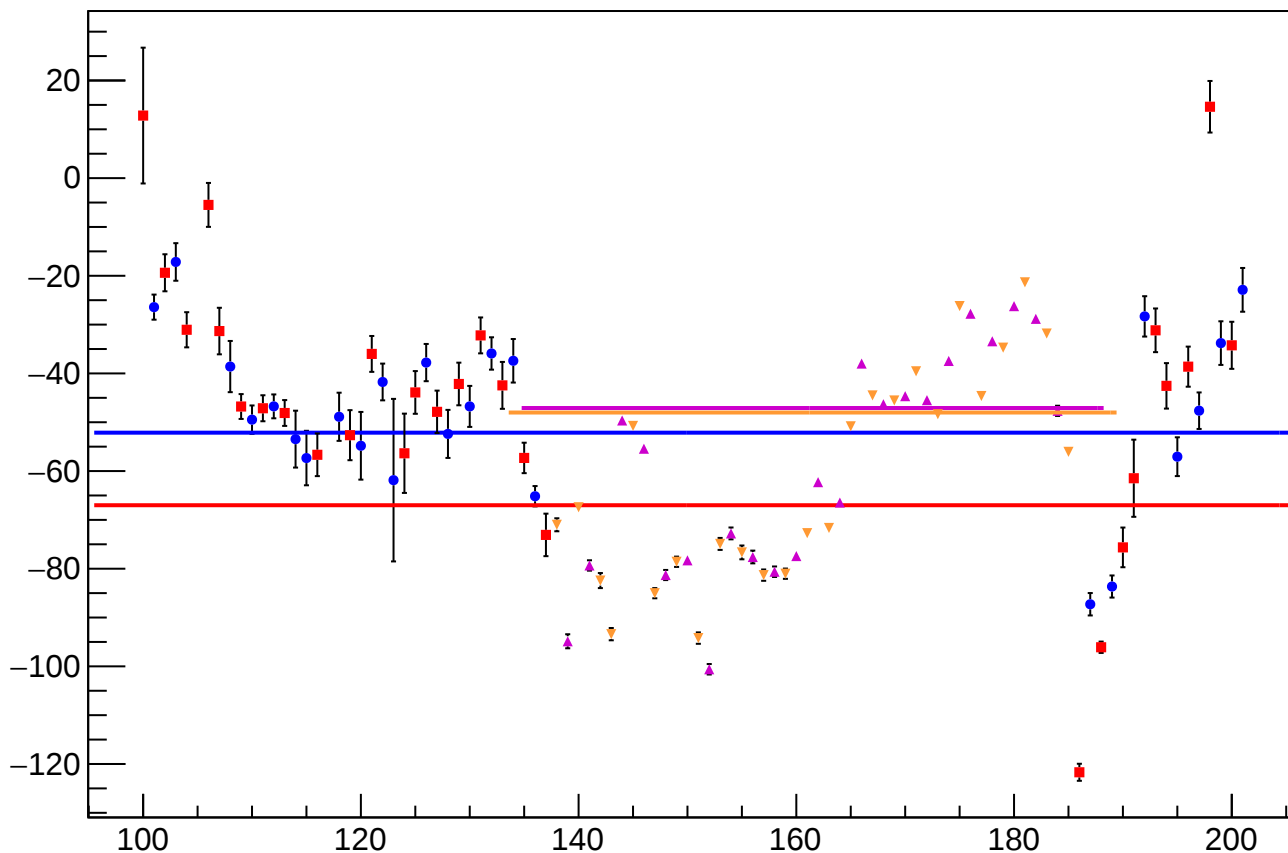
Right: -3.377 ± 0.336 $\chi^2/\text{NDF}: 406.8/51$

In: 0.430 ± 0.120 $\chi^2/\text{NDF}: 3610.0/46$

Out: 0.457 ± 0.120 $\chi^2/\text{NDF}: 4243.7/52$

All: 0.444 ± 0.085 $\chi^2/\text{NDF}: 7853.7/99$

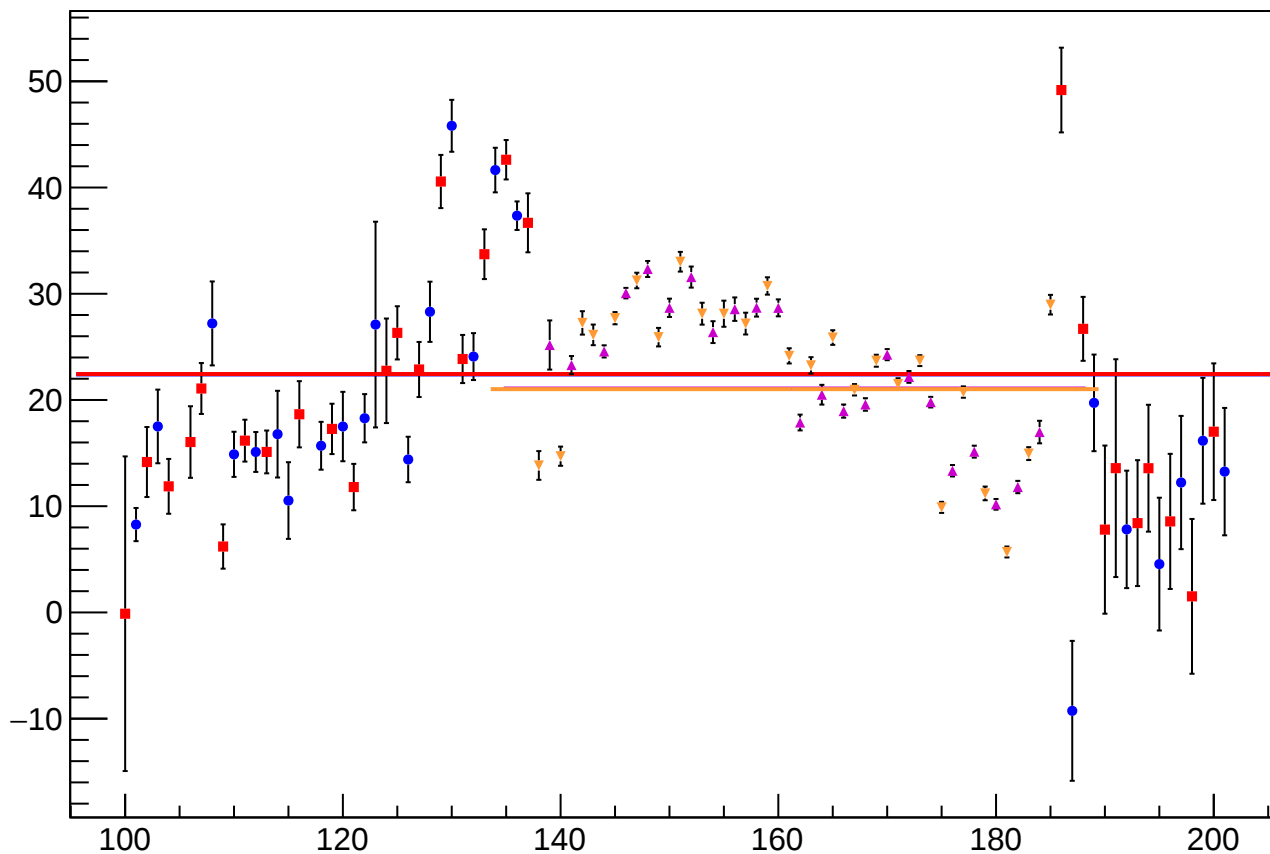
reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.136 ± 0.715 χ^2/NDF : 817.8/23
 Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24
 Right Out: -66.998 ± 0.611 χ^2/NDF : 3037.4/27
 Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47
 Right: -60.725 ± 0.465 χ^2/NDF : 4104.7/51
 In: -47.312 ± 0.152 χ^2/NDF : 16380.6/46
 Out: -49.150 ± 0.150 χ^2/NDF : 20894.5/52
 All: -48.243 ± 0.107 χ^2/NDF : 37349.3/99

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.406 $\pm$ 0.542 χ^2 /NDF: 503.5/23

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.441 $\pm$ 0.545 χ^2 /NDF: 439.0/27

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

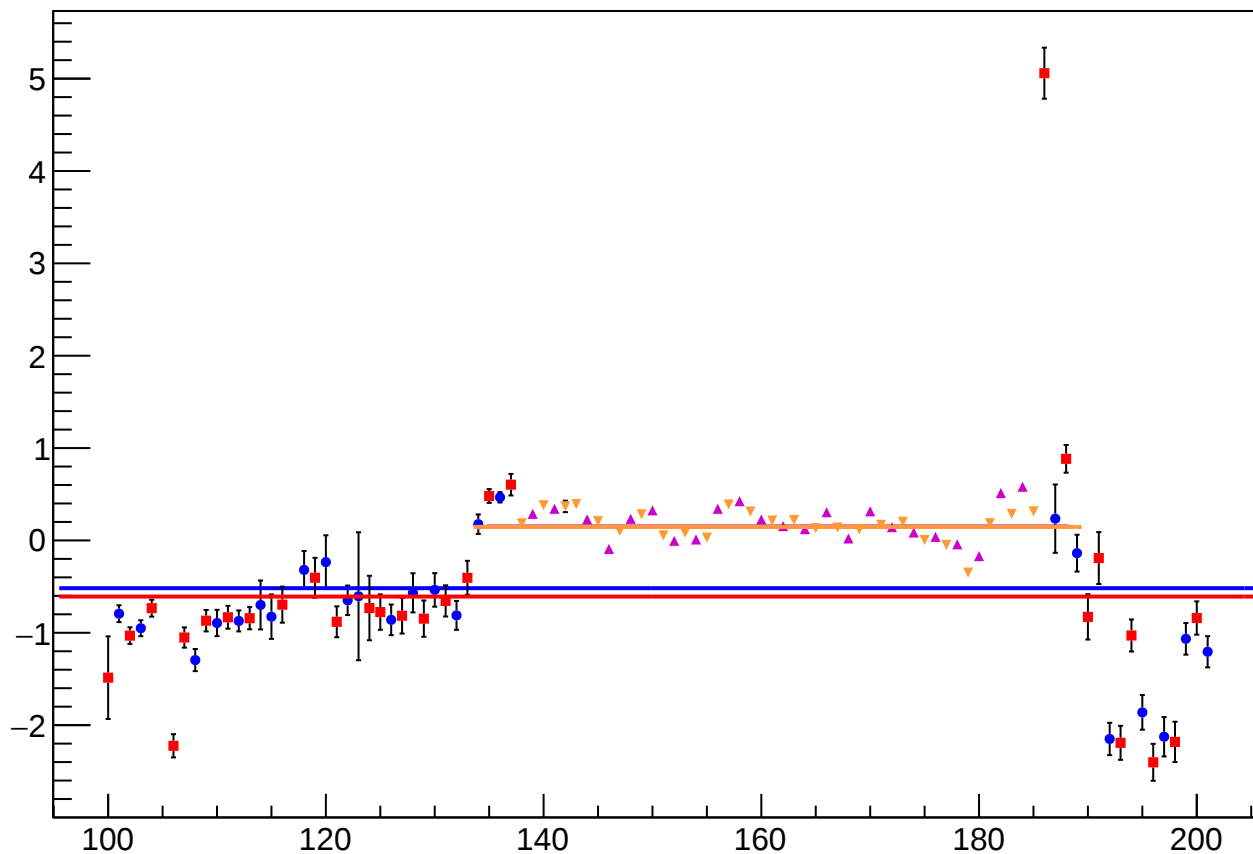
Right: 22.423 $\pm$ 0.384 χ^2 /NDF: 942.5/51

In: 21.161 $\pm$ 0.135 χ^2 /NDF:2682.4/46

Out: 21.106 $\pm$ 0.135 χ^2 /NDF:3244.6/52

All: 21.134 $\pm$ 0.095 χ^2 /NDF: 5927.1/99

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.517 ± 0.028 χ^2/NDF : 689.7/23

Left Out: 0.146 ± 0.006 χ^2/NDF : 610.2/24

Right Out: -0.608 ± 0.028 χ^2/NDF : 1288.1/27

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

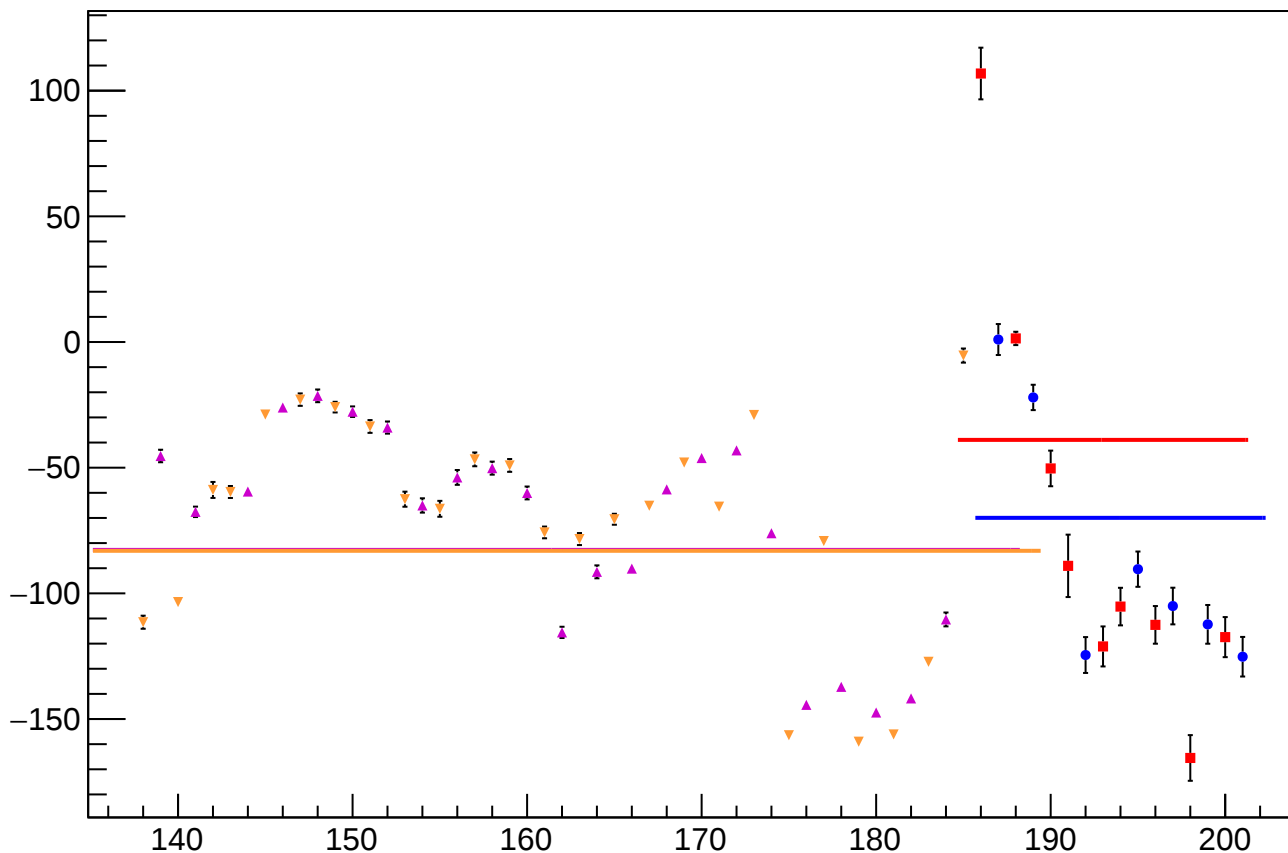
Right: -0.563 ± 0.020 χ^2/NDF : 1983.1/51

In: 0.118 ± 0.006 χ^2/NDF : 2104.3/46

Out: 0.108 ± 0.006 χ^2/NDF : 2610.8/52

All: 0.113 ± 0.004 χ^2/NDF : 4716.3/99

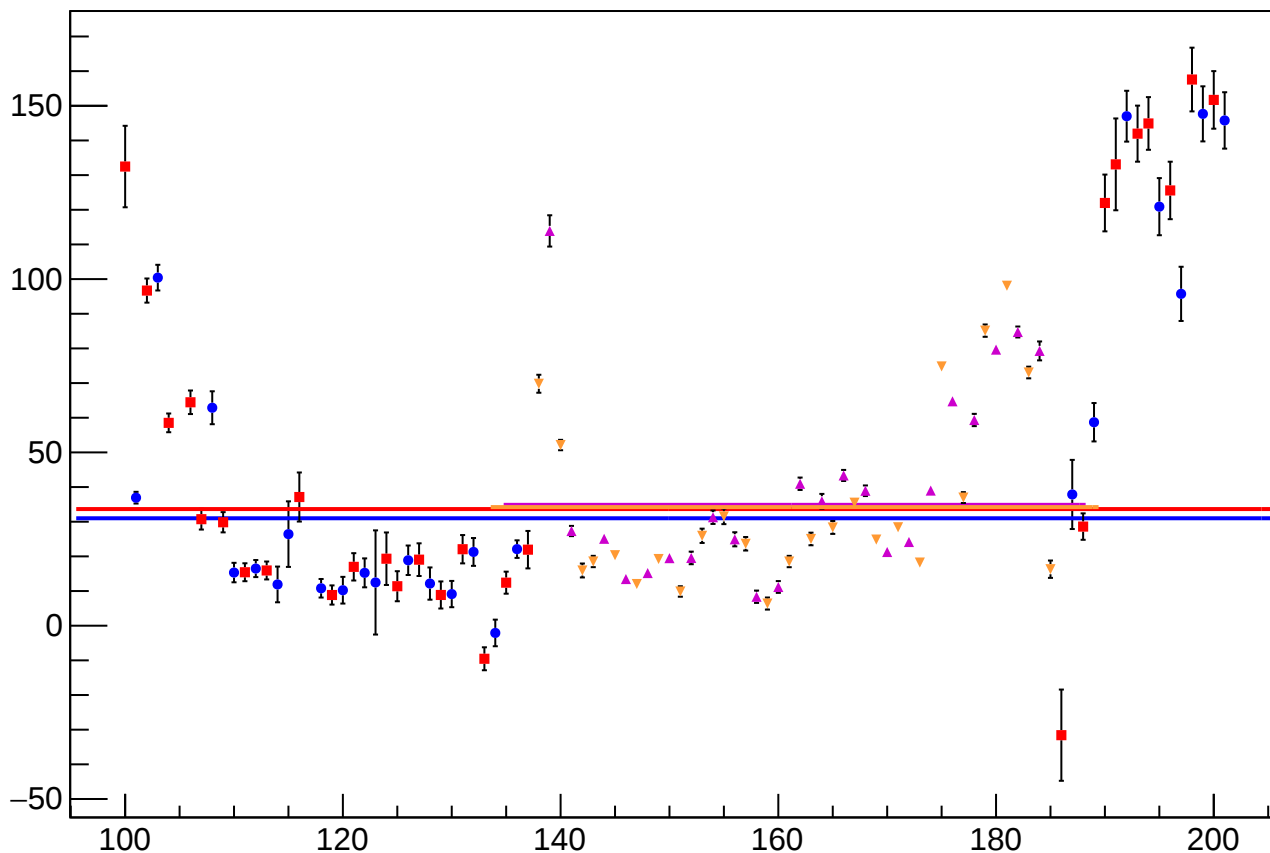
reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -69.952 ± 2.521 χ^2/NDF : 392.3/6
 Left Out: -83.068 ± 0.406 χ^2/NDF : 13817.3/24
 Right Out: -38.940 ± 1.971 χ^2/NDF : 1024.0/8
 Left In: -82.711 ± 0.415 χ^2/NDF : 10841.4/22

Left: -82.893 ± 0.290 χ^2/NDF : 24659.1/47
 Right: -50.708 ± 1.553 χ^2/NDF : 1510.2/15
 In: -82.374 ± 0.410 χ^2/NDF : 11258.6/29
 Out: -81.270 ± 0.398 χ^2/NDF : 15322.0/33
 All: -81.806 ± 0.285 χ^2/NDF : 26584.3/63

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 30.994 ± 0.777 $\chi^2/\text{NDF}: 1618.4/23$

Left Out: 34.219 ± 0.320 $\chi^2/\text{NDF}: 6192.6/24$

Right Out: 33.652 ± 0.769 $\chi^2/\text{NDF}: 2169.2/27$

Left In: 34.870 ± 0.329 $\chi^2/\text{NDF}: 4716.1/22$

Left: 34.535 ± 0.230 $\chi^2/\text{NDF}: 10910.7/47$

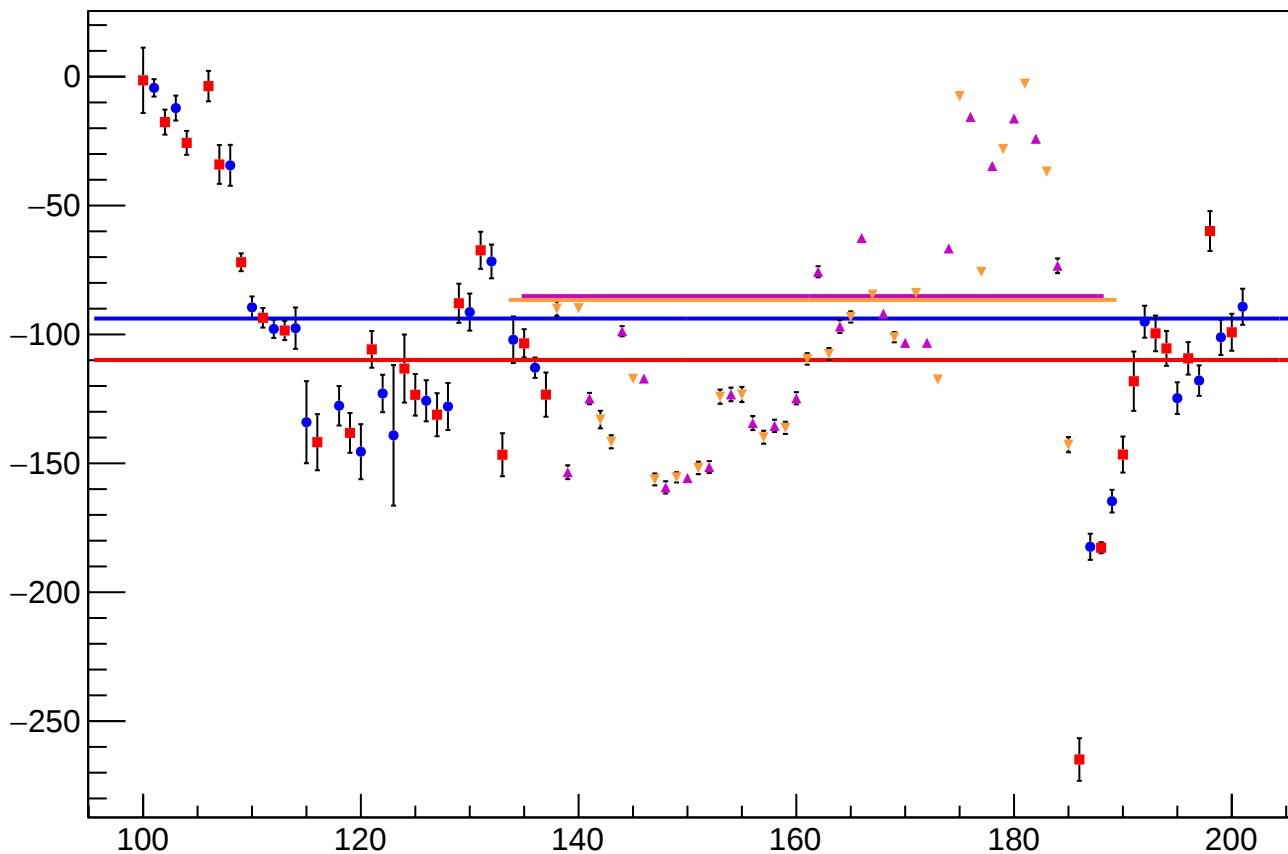
Right: 32.336 ± 0.547 $\chi^2/\text{NDF}: 3793.5/51$

In: 34.280 ± 0.303 $\chi^2/\text{NDF}: 6355.7/46$

Out: 34.135 ± 0.296 $\chi^2/\text{NDF}: 8362.2/52$

All: 34.206 ± 0.212 $\chi^2/\text{NDF}: 14718.0/99$

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -93.833 ± 1.187 χ^2/NDF : 1791.7/23

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -109.905 ± 1.048 χ^2/NDF : 3017.9/27

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

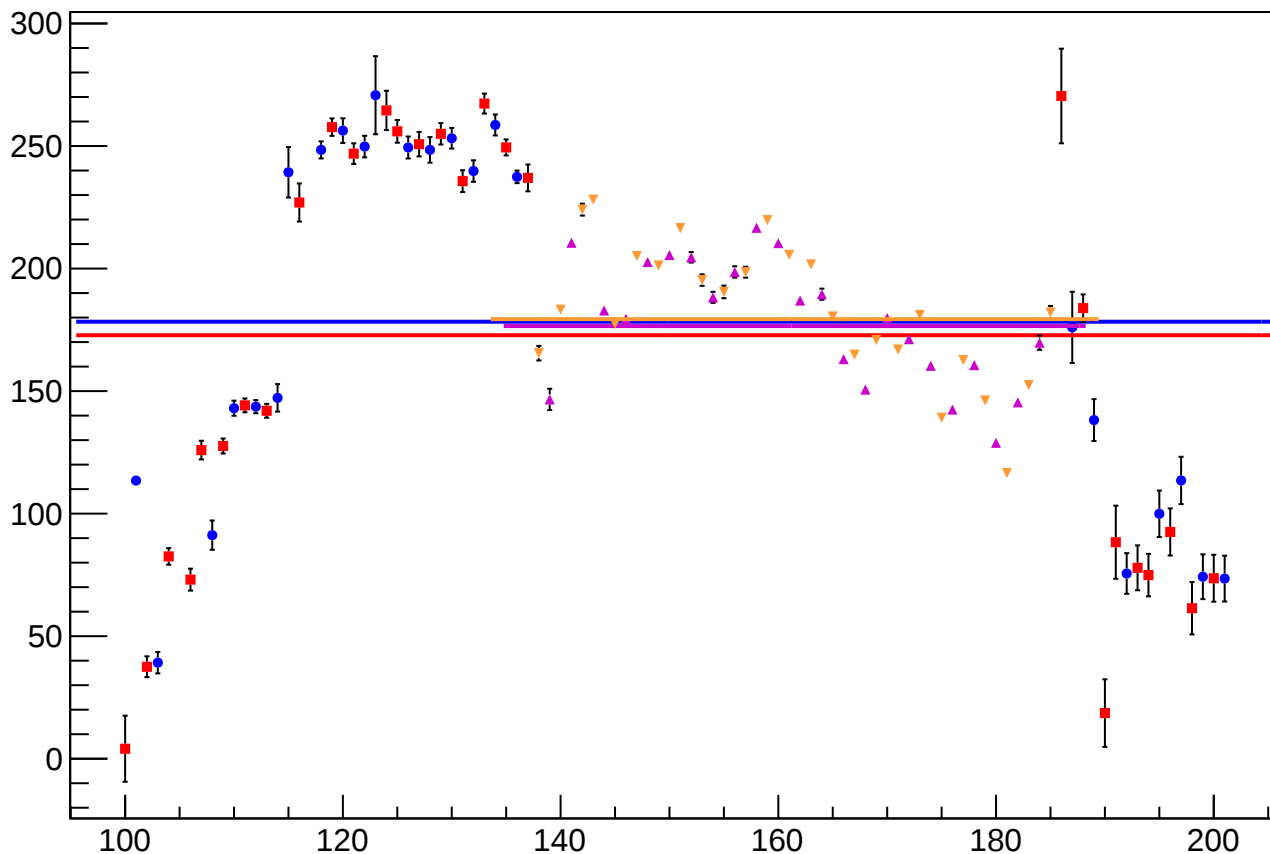
Right: -102.860 ± 0.786 χ^2/NDF : 4912.6/51

In: -86.082 ± 0.392 χ^2/NDF : 14680.9/46

Out: -89.666 ± 0.381 χ^2/NDF : 17962.7/52

All: -87.926 ± 0.273 χ^2/NDF : 32686.7/99

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 178.309 ± 0.891 $\chi^2/\text{NDF}: 5893.7/23$

Left Out: 179.359 ± 0.362 $\chi^2/\text{NDF}: 5982.2/24$

Right Out: 172.791 ± 0.888 $\chi^2/\text{NDF}: 7073.6/27$

Left In: 176.531 ± 0.371 $\chi^2/\text{NDF}: 4426.0/22$

Left: 177.980 ± 0.259 $\chi^2/\text{NDF}: 10438.0/47$

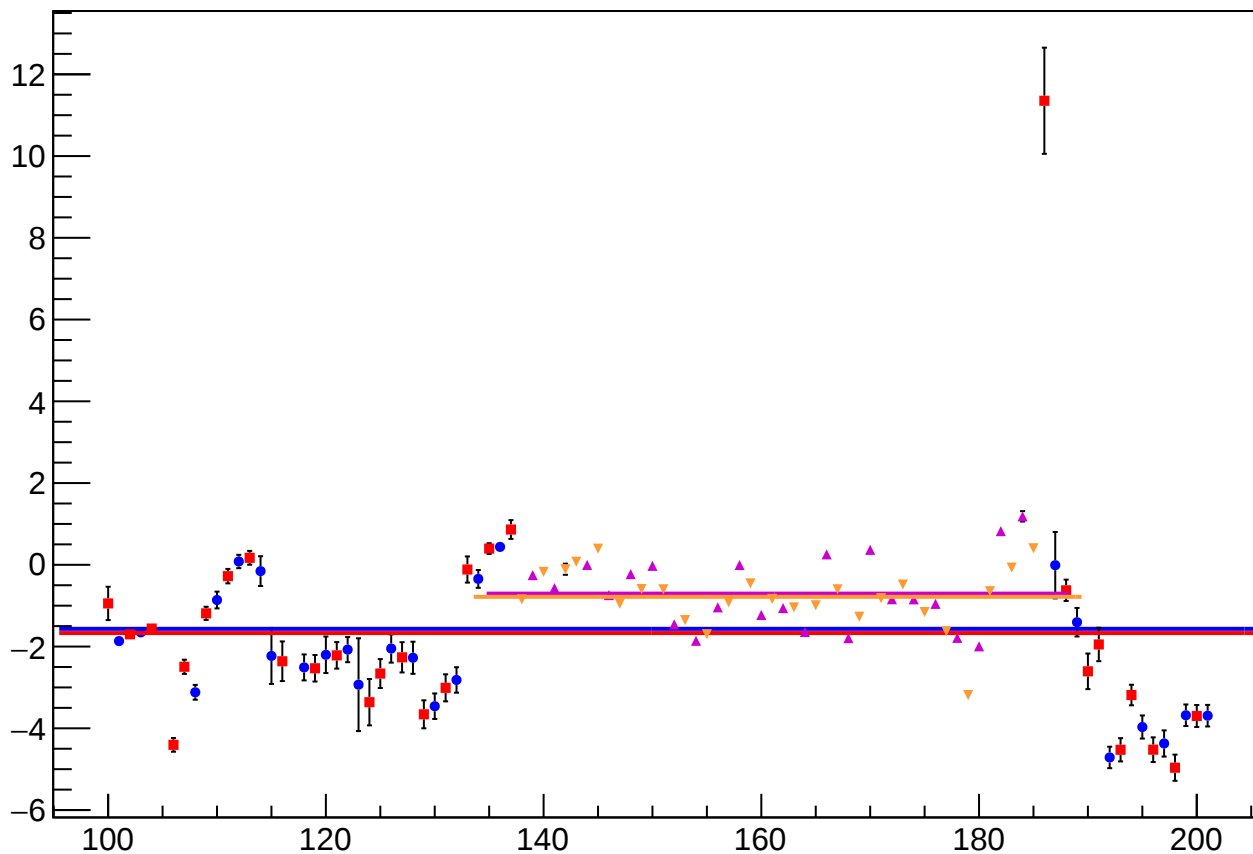
Right: 175.540 ± 0.629 $\chi^2/\text{NDF}: 12986.6/51$

In: 176.794 ± 0.342 $\chi^2/\text{NDF}: 10323.1/46$

Out: 178.423 ± 0.335 $\chi^2/\text{NDF}: 13102.8/52$

All: 177.626 ± 0.240 $\chi^2/\text{NDF}: 23437.4/99$

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.566 ± 0.044 χ^2/NDF : 1105.8/23

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.670 ± 0.042 χ^2/NDF : 1468.2/27

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

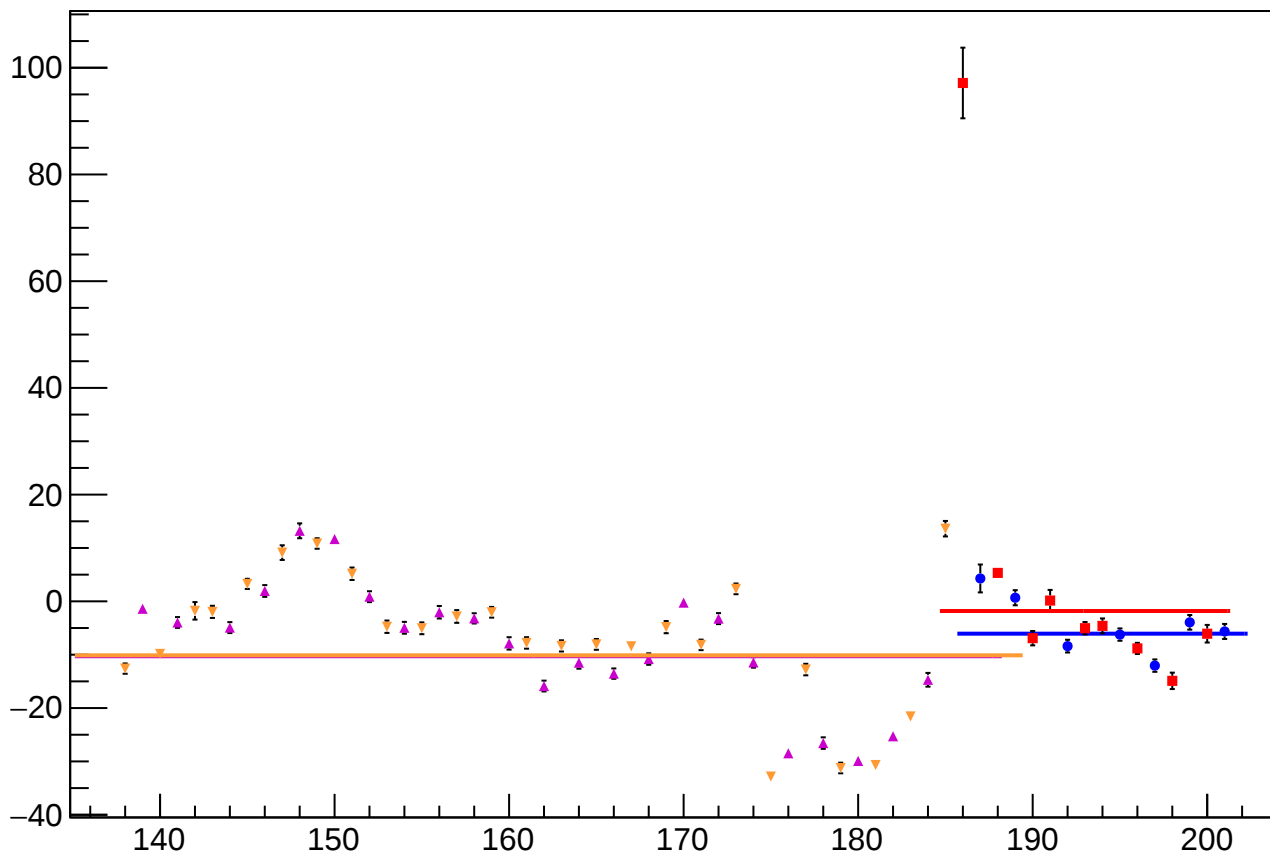
Right: -1.621 ± 0.031 χ^2/NDF : 2576.8/51

In: -0.814 ± 0.016 χ^2/NDF : 3841.0/46

Out: -0.903 ± 0.015 χ^2/NDF : 3624.0/52

All: -0.859 ± 0.011 χ^2/NDF : 7481.3/99

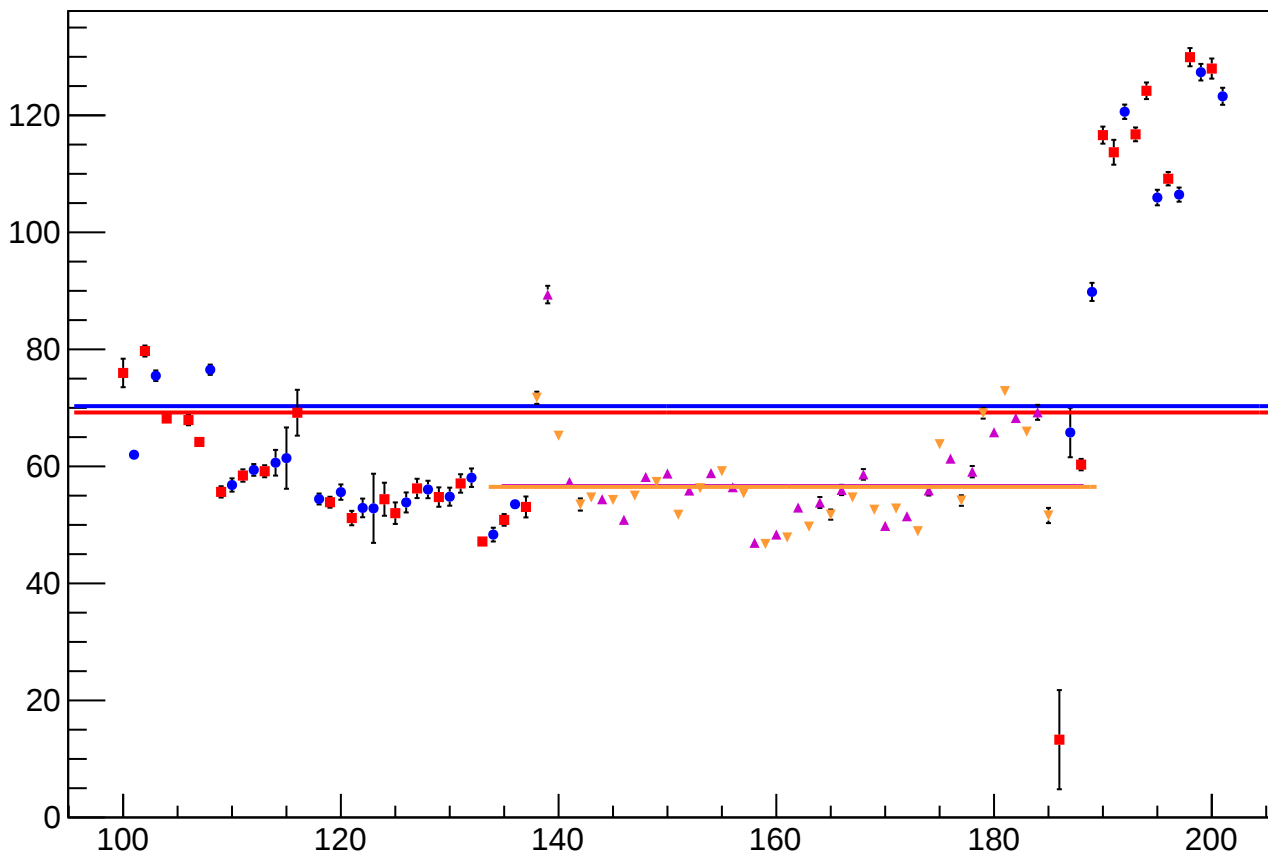
reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.061 ± 0.509 $\chi^2/\text{NDF}: 71.1/6$
 Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$
 Right Out: -1.812 ± 0.400 $\chi^2/\text{NDF}: 499.4/8$
 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: -3.437 ± 0.315 $\chi^2/\text{NDF}: 613.6/15$
 In: -9.697 ± 0.190 $\chi^2/\text{NDF}: 3581.5/29$
 Out: -8.441 ± 0.180 $\chi^2/\text{NDF}: 4980.8/33$
 All: -9.033 ± 0.131 $\chi^2/\text{NDF}: 8585.4/63$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 70.296+/-0.237 χ^2/NDF : 8668.4/23

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 69.213+/-0.219 χ^2/NDF : 11546.9/27

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

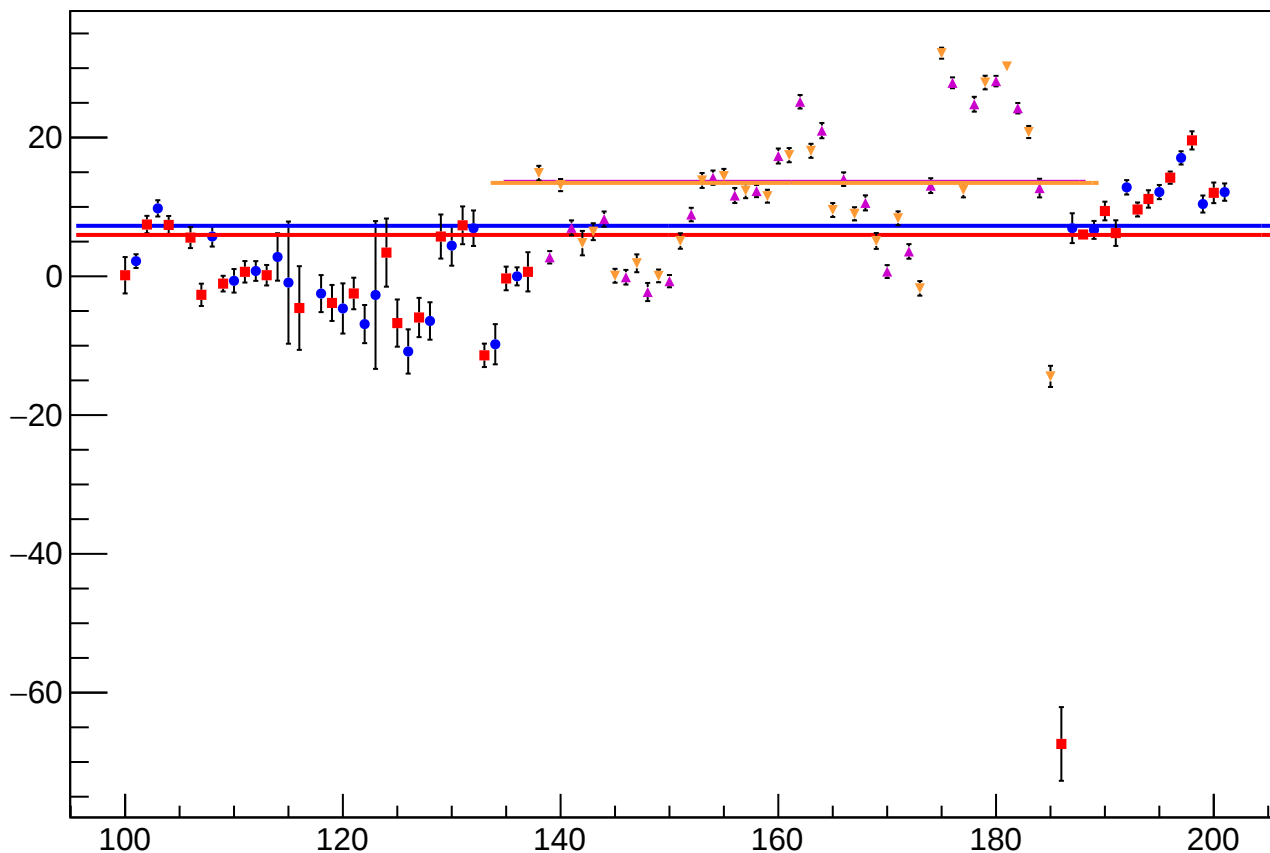
Right: 69.712+/-0.161 χ^2/NDF : 20226.6/51

In: 61.095+/-0.136 χ^2/NDF :12510.9/46

Out: 60.868+/-0.129 χ^2/NDF :15717.6/52

All: 60.976+/-0.093 χ^2/NDF : 28230.0/99

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.277 ± 0.319 χ^2/NDF : 432.0/23

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 5.964 ± 0.267 χ^2/NDF : 728.0/27

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

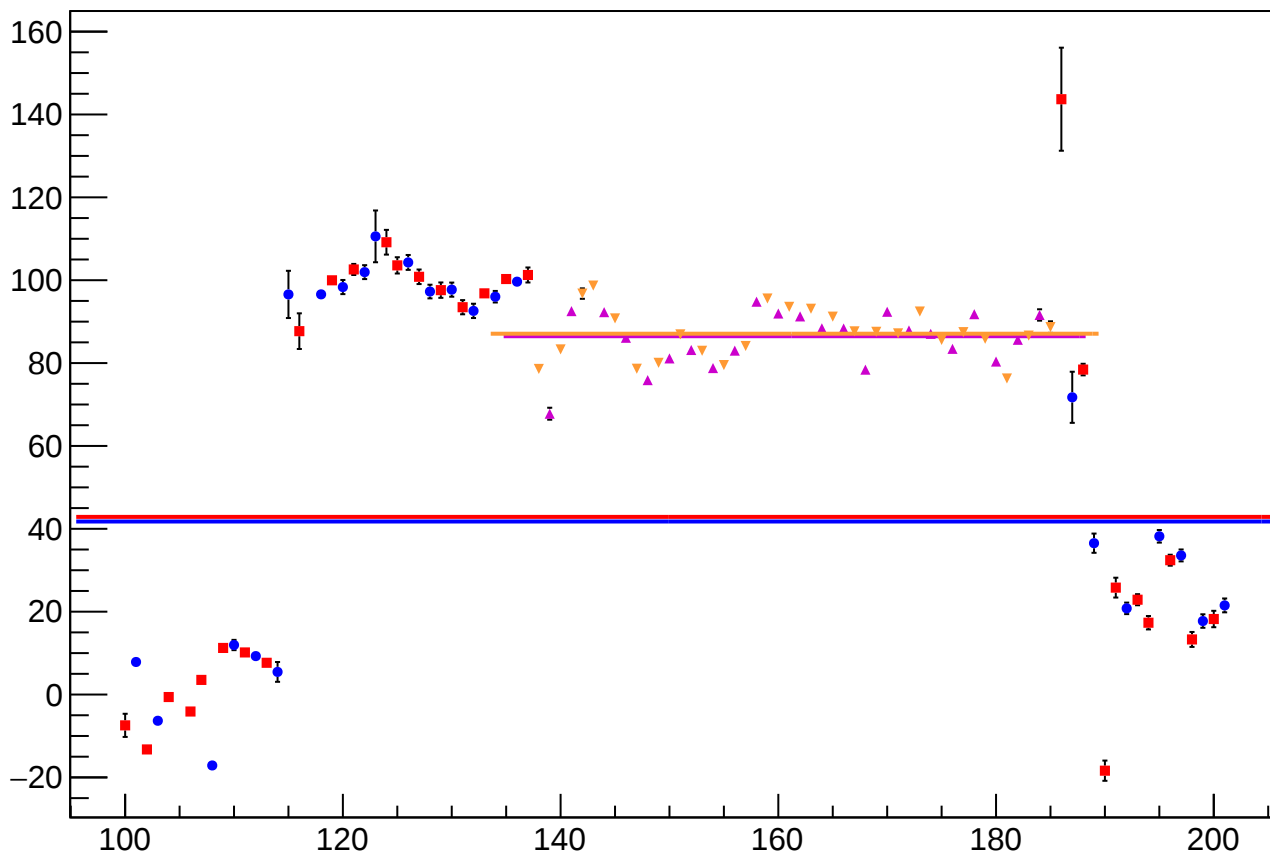
Right: 6.505 ± 0.205 χ^2/NDF : 1170.0/51

In: 11.773 ± 0.172 χ^2/NDF : 3027.6/46

Out: 10.738 ± 0.161 χ^2/NDF : 3967.4/52

All: 11.220 ± 0.117 χ^2/NDF : 7014.3/99

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.764 $\pm$ 0.276 χ^2 /NDF: 25458.7/23

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 42.878 $\pm$ 0.260 χ^2 /NDF: 30680.6/27

Left In: 86.482 $\pm$ 0.185 χ^2 /NDF:1003.2/22

Left: 86.794 $\pm$ 0.129 χ^2 /NDF: 2094.5/47

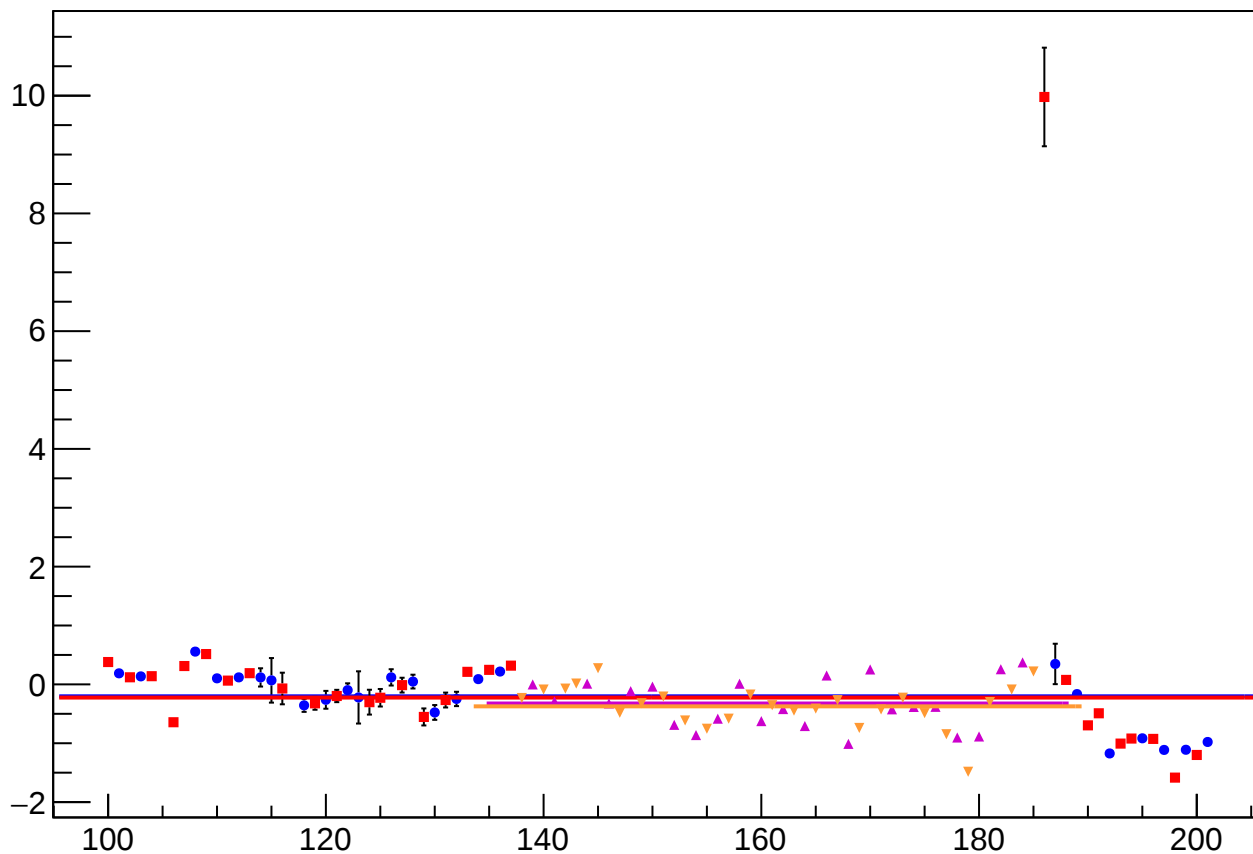
Right: 42.355 $\pm$ 0.189 χ^2 /NDF: 56148.0/51

In: 72.659 $\pm$ 0.153 χ^2 /NDF:44599.3/46

Out: 72.826 $\pm$ 0.147 χ^2 /NDF:51425.9/52

All: 72.746 $\pm$ 0.106 χ^2 /NDF: 96025.9/99

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.203 ± 0.011 χ^2/NDF : 2836.6/23

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.224 ± 0.011 χ^2/NDF : 3218.5/27

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

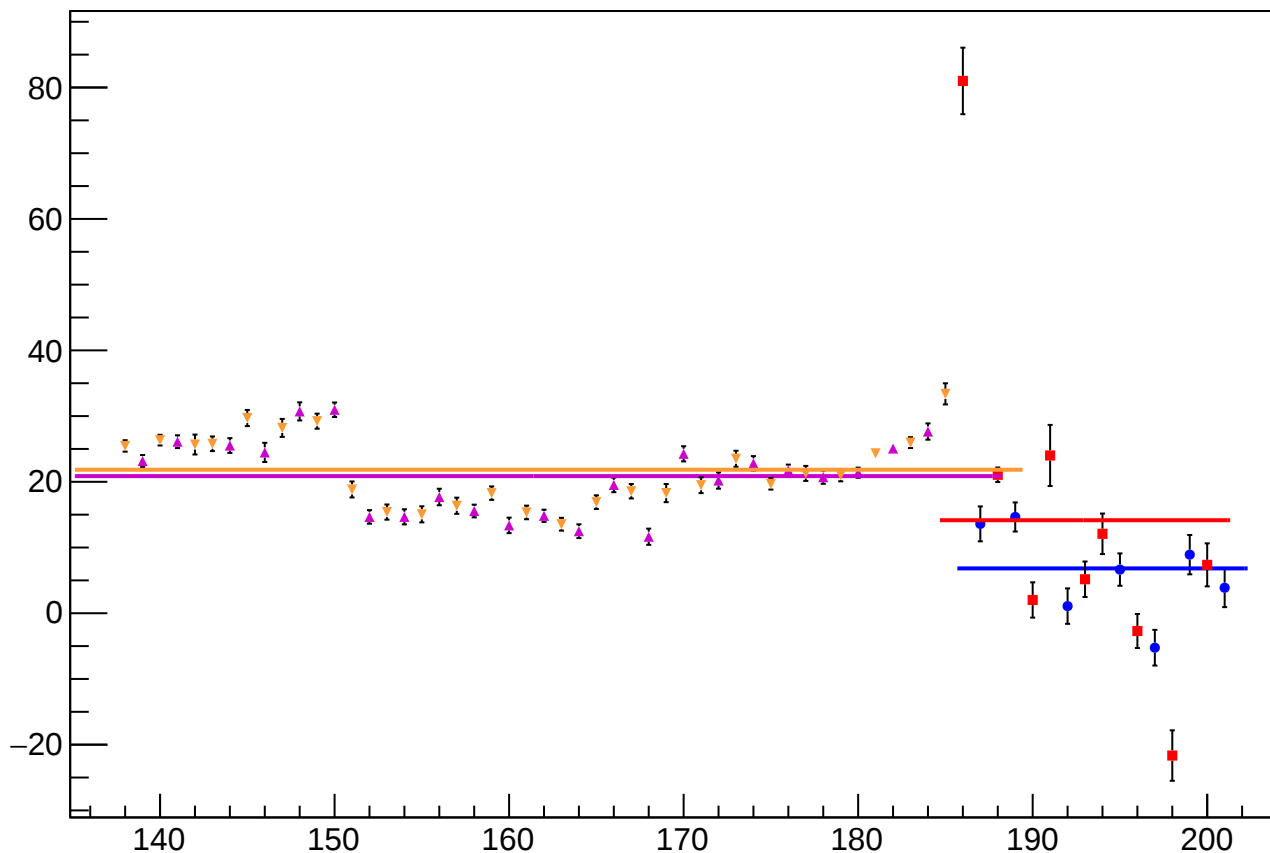
Right: -0.214 ± 0.008 χ^2/NDF : 6056.9/51

In: -0.284 ± 0.007 χ^2/NDF : 5196.0/46

Out: -0.318 ± 0.006 χ^2/NDF : 5011.6/52

All: -0.301 ± 0.005 χ^2/NDF : 10221.5/99

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.821 ± 0.995 $\chi^2/\text{NDF}: 44.7/6$

Left Out: 21.836 ± 0.210 $\chi^2/\text{NDF}: 524.3/24$

Right Out: 14.153 ± 0.792 $\chi^2/\text{NDF}: 383.4/8$

Left In: 20.866 ± 0.217 $\chi^2/\text{NDF}: 576.9/22$

Left: 21.366 ± 0.151 $\chi^2/\text{NDF}: 1111.6/47$

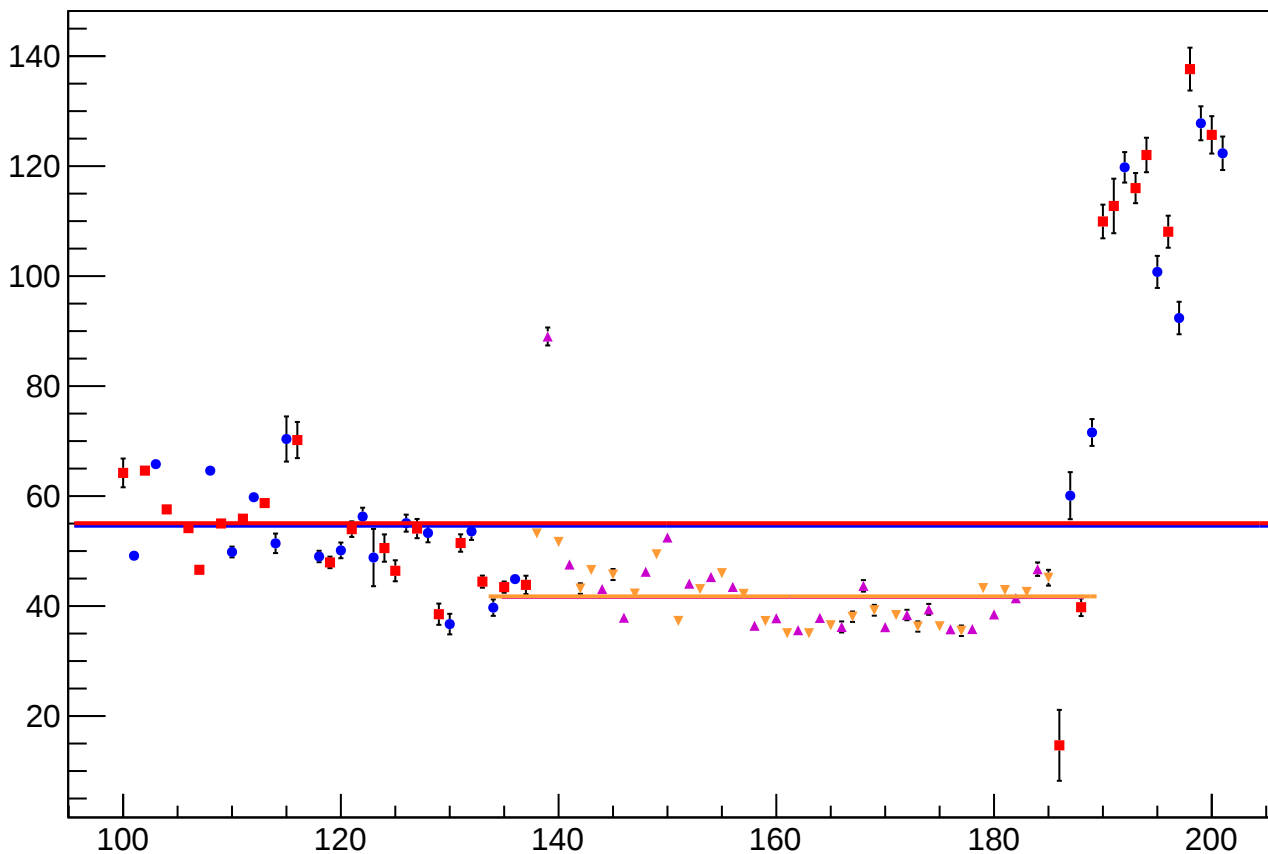
Right: 11.308 ± 0.620 $\chi^2/\text{NDF}: 461.4/15$

In: 20.230 ± 0.212 $\chi^2/\text{NDF}: 811.8/29$

Out: 21.333 ± 0.203 $\chi^2/\text{NDF}: 995.7/33$

All: 20.805 ± 0.146 $\chi^2/\text{NDF}: 1821.7/63$

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 54.614 $\pm$ 0.207 χ^2 /NDF: 3329.8/23

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 55.065 $\pm$ 0.221 χ^2 /NDF: 3682.4/27

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

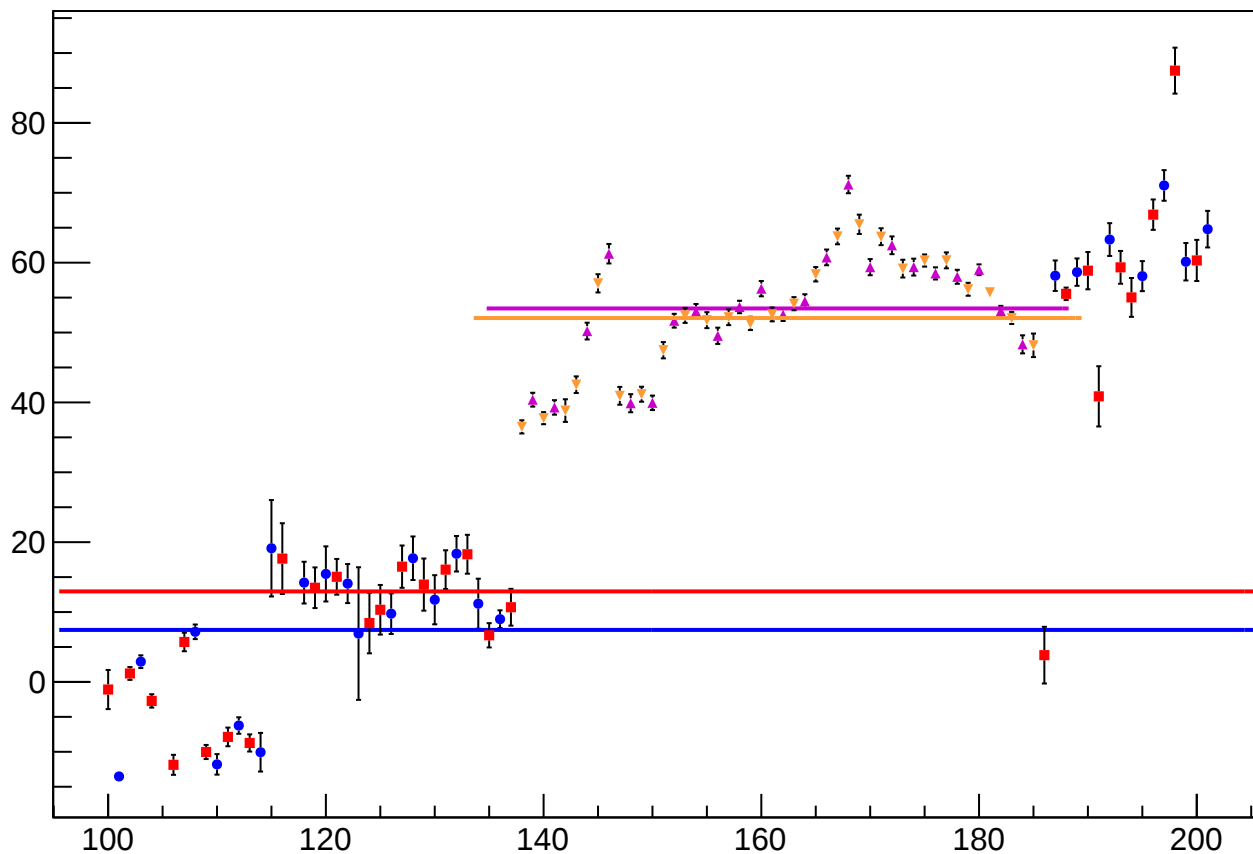
Right: 54.825 $\pm$ 0.151 χ^2 /NDF: 7014.4/51

In: 46.993 $\pm$ 0.133 χ^2 /NDF:7238.9/46

Out: 46.537 $\pm$ 0.132 χ^2 /NDF:7024.5/52

All: 46.764 $\pm$ 0.094 χ^2 /NDF: 14269.3/99

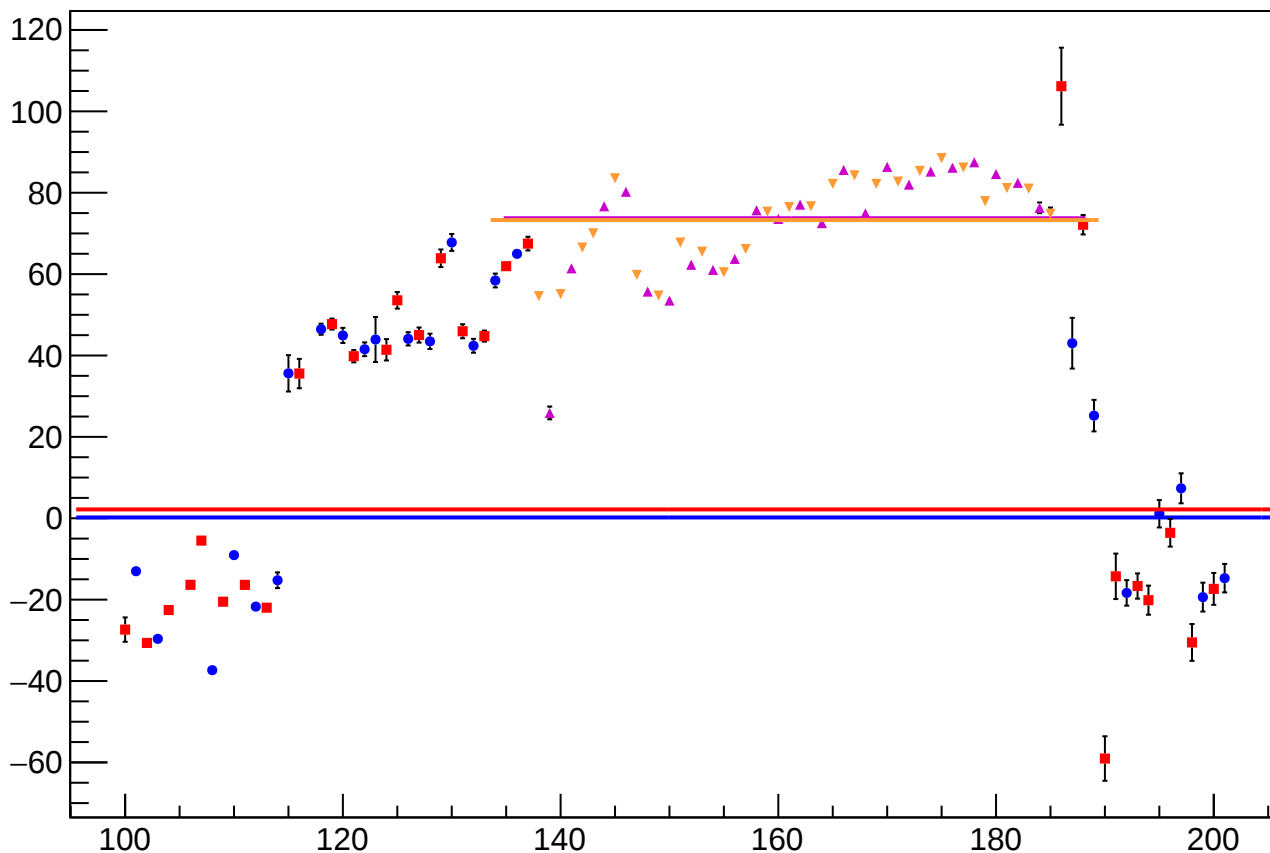
reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.442 ± 0.336 $\chi^2/\text{NDF}: 5616.1/23$
 Left Out: 52.076 ± 0.210 $\chi^2/\text{NDF}: 1450.9/24$
 Right Out: 12.952 ± 0.328 $\chi^2/\text{NDF}: 6509.4/27$
 Left In: 53.447 ± 0.215 $\chi^2/\text{NDF}: 1169.0/22$

Left: 52.744 ± 0.150 $\chi^2/\text{NDF}: 2640.6/47$
 Right: 10.256 ± 0.235 $\chi^2/\text{NDF}: 12263.2/51$
 In: 40.024 ± 0.181 $\chi^2/\text{NDF}: 20100.4/46$
 Out: 40.725 ± 0.177 $\chi^2/\text{NDF}: 18030.0/52$
 All: 40.383 ± 0.127 $\chi^2/\text{NDF}: 38138.1/99$

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.197 $\pm$ 0.244 χ^2 /NDF: 18396.5/23

Left Out: 73.284 $\pm$ 0.187 χ^2 /NDF:3144.2/24

Right Out: 2.171 $\pm$ 0.261 χ^2 /NDF: 16686.0/27

Left In: 73.730 $\pm$ 0.194 χ^2 /NDF:3775.8/22

Left: 73.498 $\pm$ 0.135 χ^2 /NDF: 6922.7/47

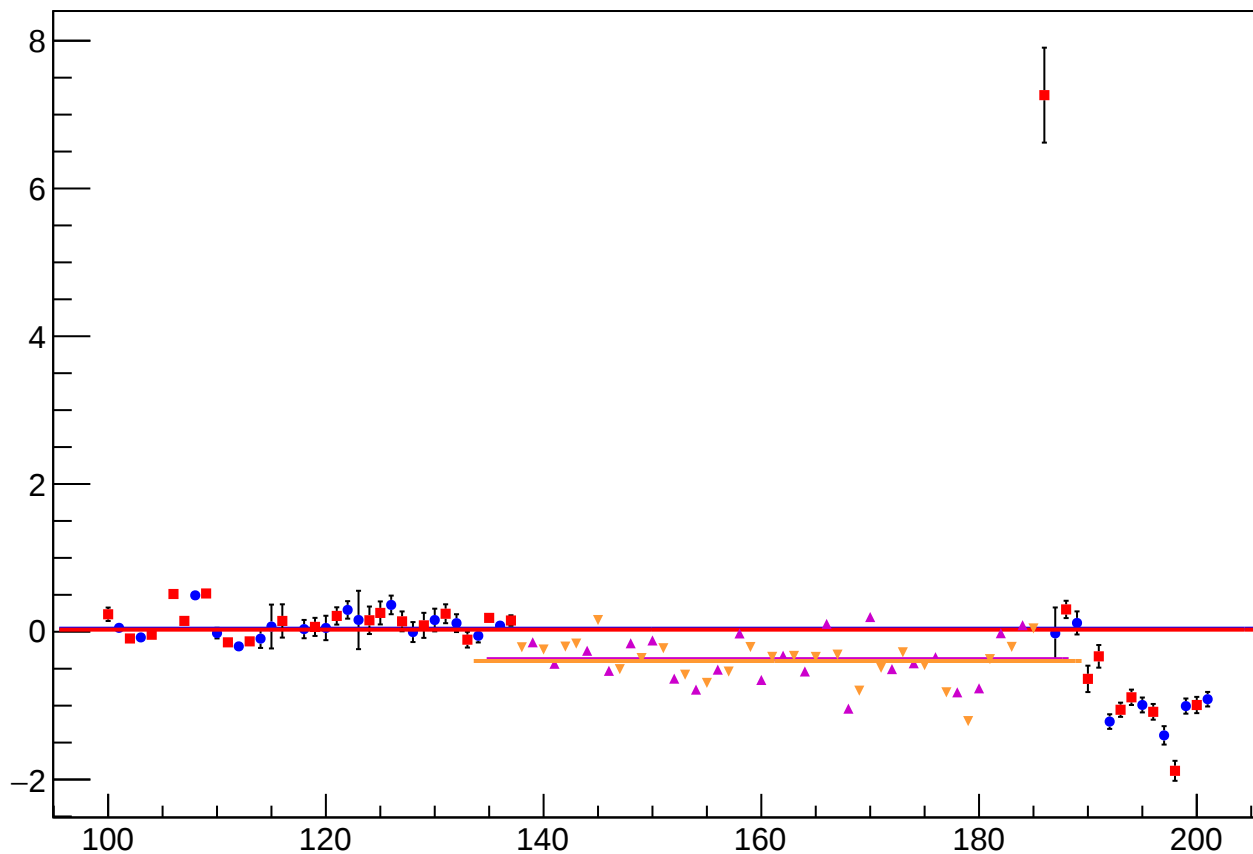
Right: 1.117 $\pm$ 0.178 χ^2 /NDF: 35113.1/51

In: 45.162 $\pm$ 0.152 χ^2 /NDF:77796.7/46

Out: 49.182 $\pm$ 0.152 χ^2 /NDF:68925.2/52

All: 47.172 $\pm$ 0.107 χ^2 /NDF: 147071.8/99

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.042 ± 0.011 $\chi^2/\text{NDF}: 1032.0/23$

Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$

Right Out: 0.029 ± 0.011 $\chi^2/\text{NDF}: 1170.1/27$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

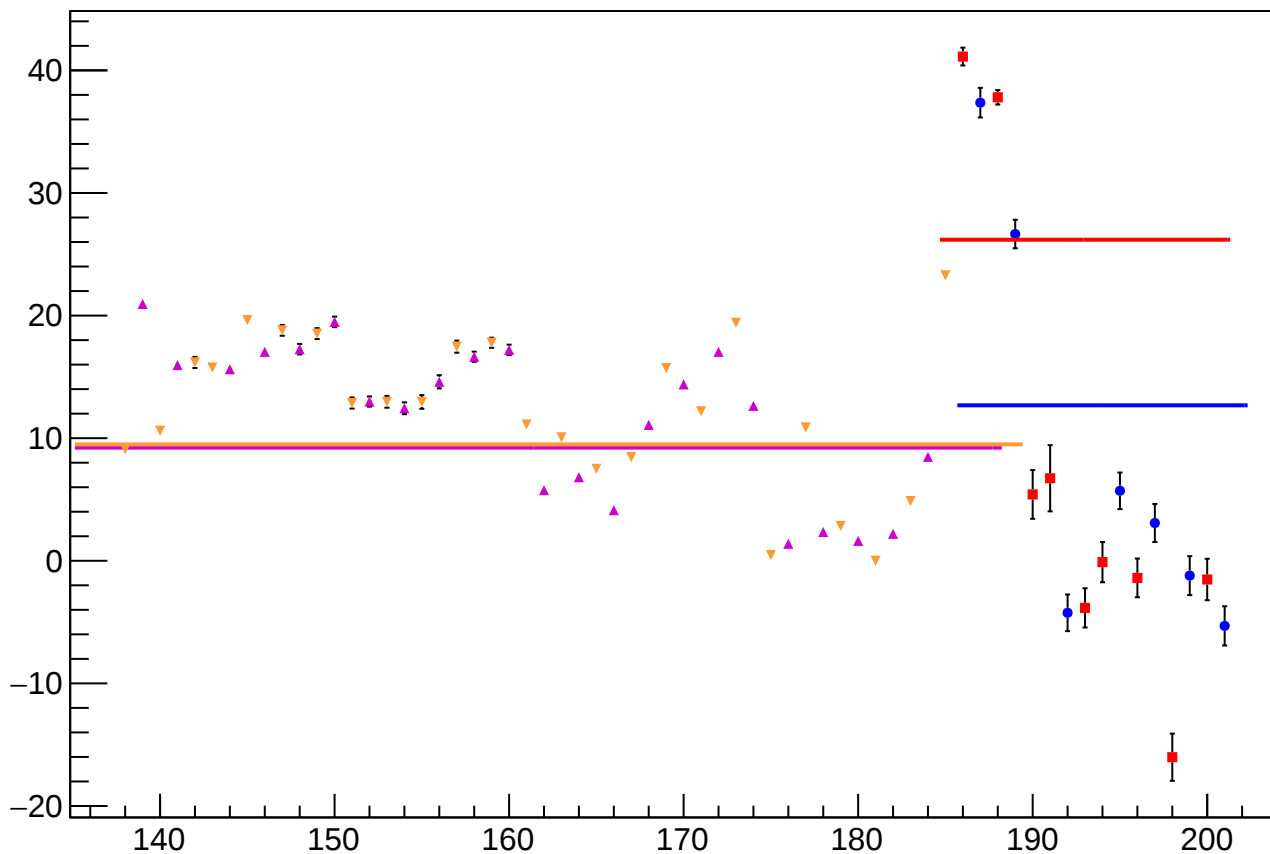
Right: 0.035 ± 0.008 $\chi^2/\text{NDF}: 2202.9/51$

In: -0.207 ± 0.007 $\chi^2/\text{NDF}: 3237.6/46$

Out: -0.229 ± 0.007 $\chi^2/\text{NDF}: 3085.3/52$

All: -0.218 ± 0.005 $\chi^2/\text{NDF}: 6328.6/99$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.681 $\pm$ 0.533 χ^2 /NDF: 953.2/6

Left Out: 9.495 $\pm$ 0.061 χ^2 /NDF:12609.1/24

Right Out: 26.189 $\pm$ 0.380 χ^2 /NDF: 2633.5/8

Left In: 9.231 $\pm$ 0.063 χ^2 /NDF:10736.2/22

Left: 9.367 $\pm$ 0.044 χ^2 /NDF: 23354.3/47

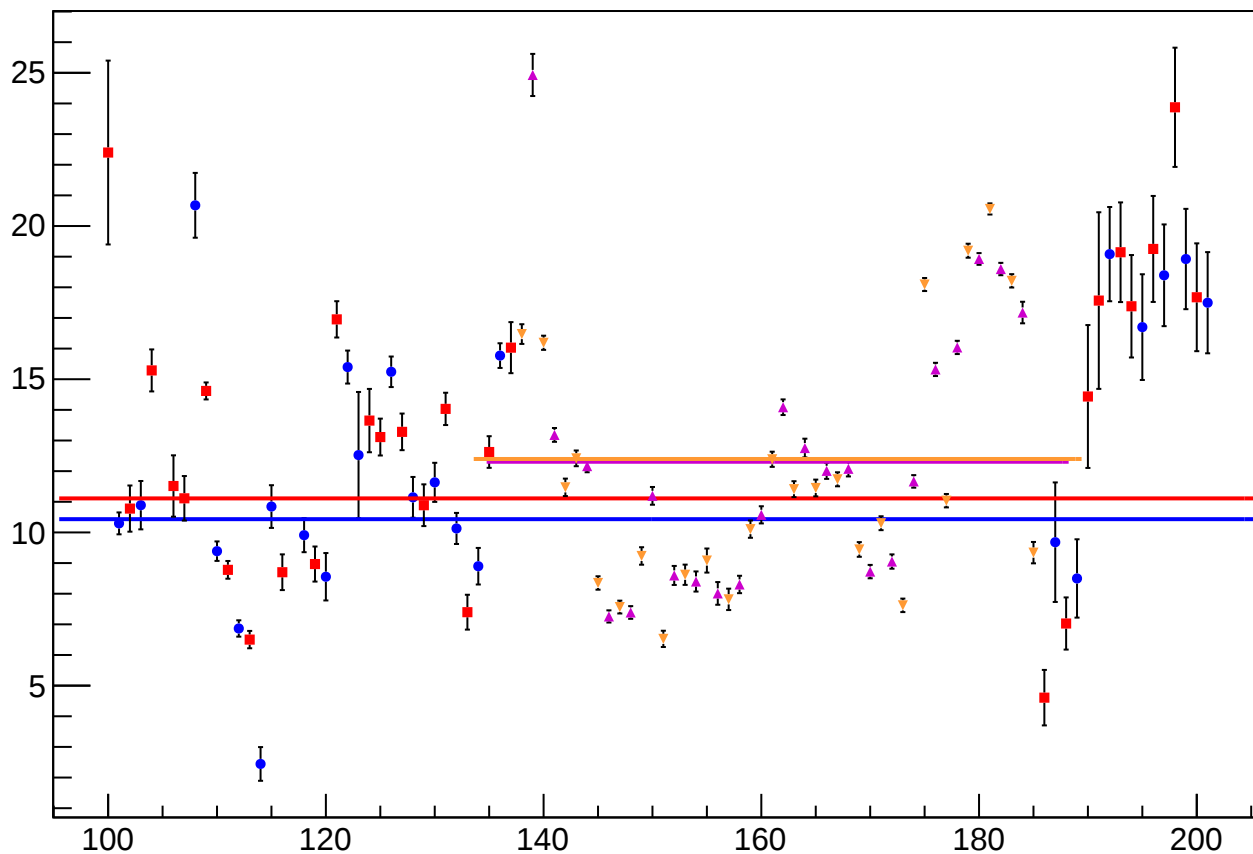
Right: 21.634 $\pm$ 0.309 χ^2 /NDF: 4013.0/15

In: 9.279 $\pm$ 0.063 χ^2 /NDF:11730.7/29

Out: 9.918 $\pm$ 0.060 χ^2 /NDF:17124.7/33

All: 9.609 $\pm$ 0.043 χ^2 /NDF: 28909.3/63

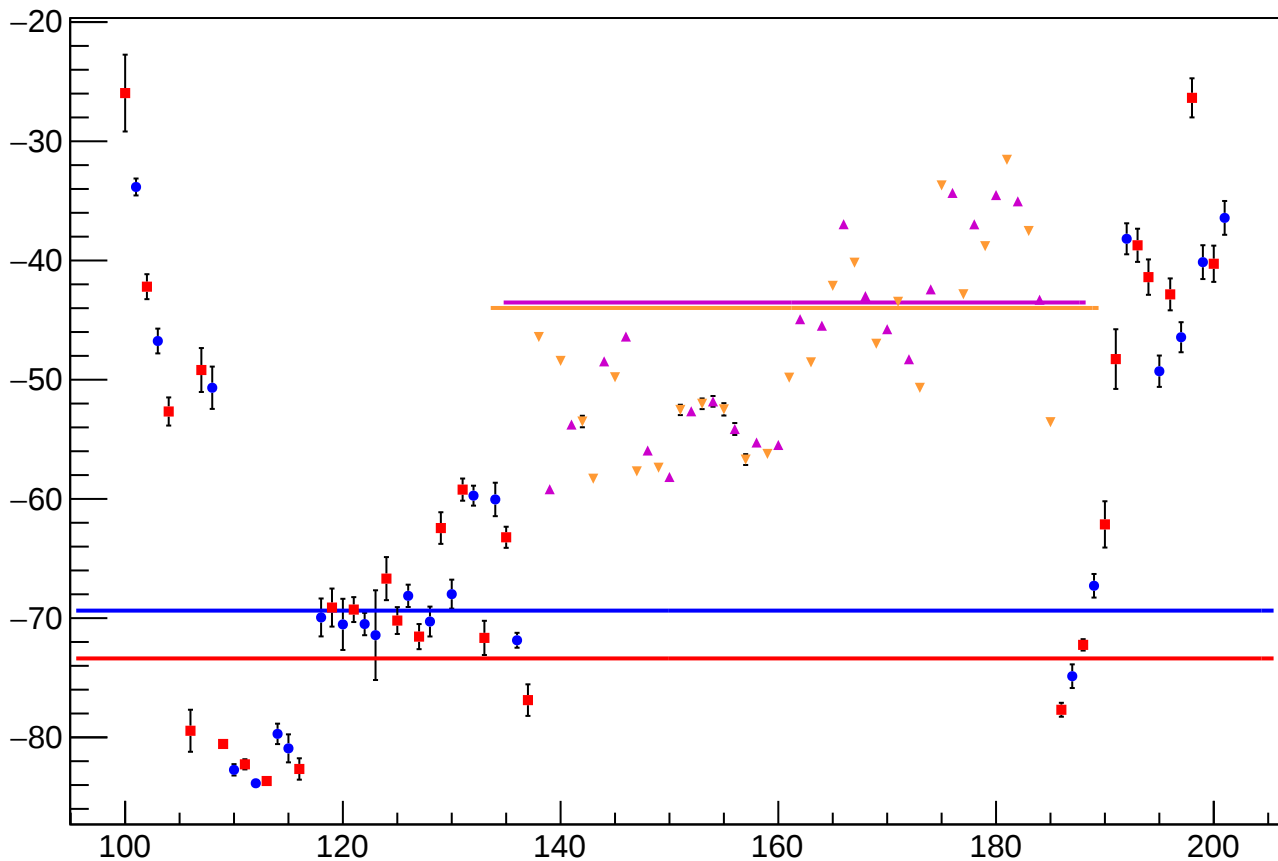
reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.433 ± 0.117 $\chi^2/\text{NDF}: 984.0/23$
 Left Out: 12.397 ± 0.050 $\chi^2/\text{NDF}: 7542.8/24$
 Right Out: 11.110 ± 0.113 $\chi^2/\text{NDF}: 1015.9/27$
 Left In: 12.307 ± 0.051 $\chi^2/\text{NDF}: 5601.8/22$

Left: 12.353 ± 0.036 $\chi^2/\text{NDF}: 13146.3/47$
 Right: 10.784 ± 0.081 $\chi^2/\text{NDF}: 2017.2/51$
 In: 12.007 ± 0.047 $\chi^2/\text{NDF}: 6800.0/46$
 Out: 12.189 ± 0.045 $\chi^2/\text{NDF}: 8667.3/52$
 All: 12.101 ± 0.033 $\chi^2/\text{NDF}: 15474.9/99$

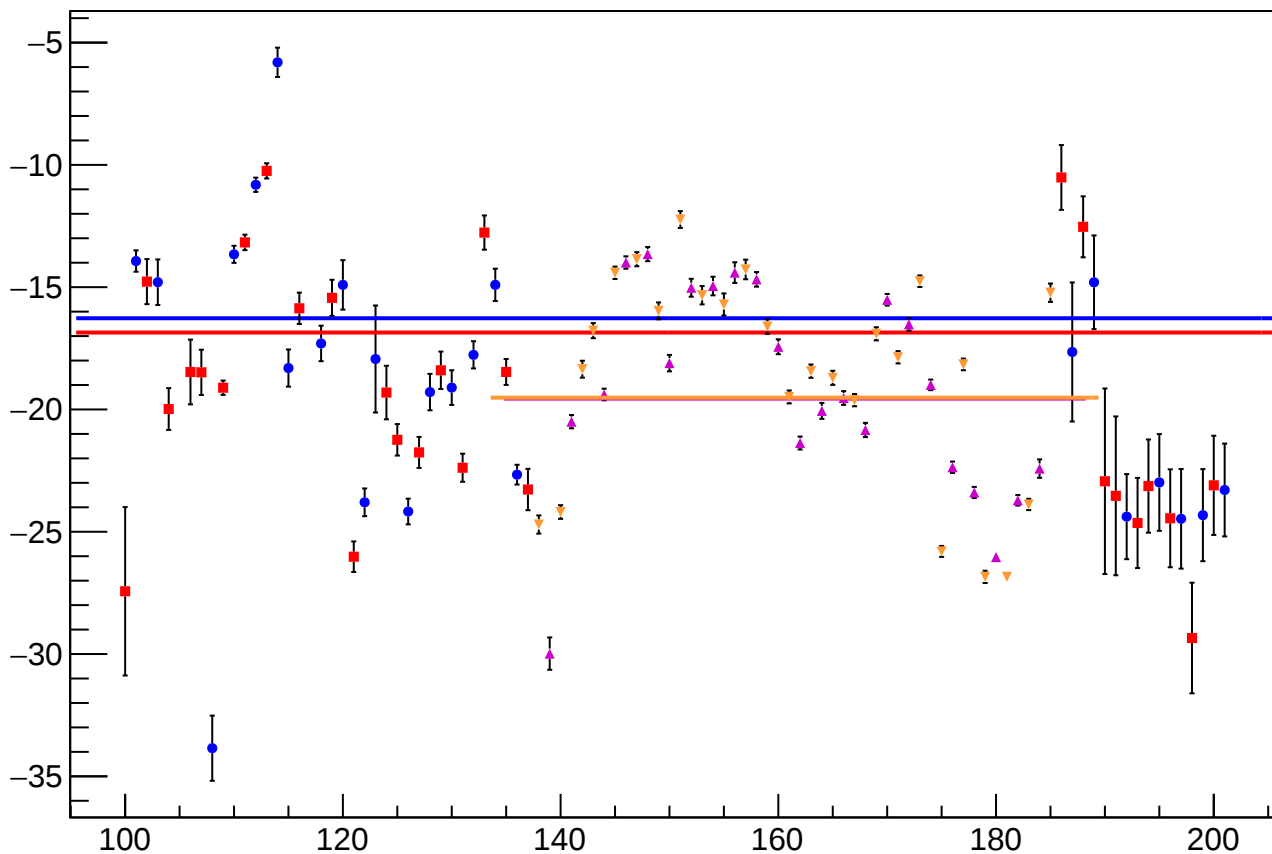
reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -69.369 ± 0.182 $\chi^2/\text{NDF}: 7904.3/23$
 Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$
 Right Out: -73.380 ± 0.157 $\chi^2/\text{NDF}: 6767.5/27$
 Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$
 Right: -71.667 ± 0.119 $\chi^2/\text{NDF}: 14950.4/51$
 In: -46.317 ± 0.060 $\chi^2/\text{NDF}: 41177.8/46$
 Out: -47.938 ± 0.058 $\chi^2/\text{NDF}: 54826.6/52$
 All: -47.158 ± 0.041 $\chi^2/\text{NDF}: 96385.8/99$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.270 ± 0.131 χ^2/NDF : 1704.9/23

Left Out: -19.517 ± 0.056 χ^2/NDF : 6518.3/24

Right Out: -16.854 ± 0.126 χ^2/NDF : 1336.4/27

Left In: -19.555 ± 0.057 χ^2/NDF : 4311.2/22

Left: -19.536 ± 0.040 χ^2/NDF : 10829.6/47

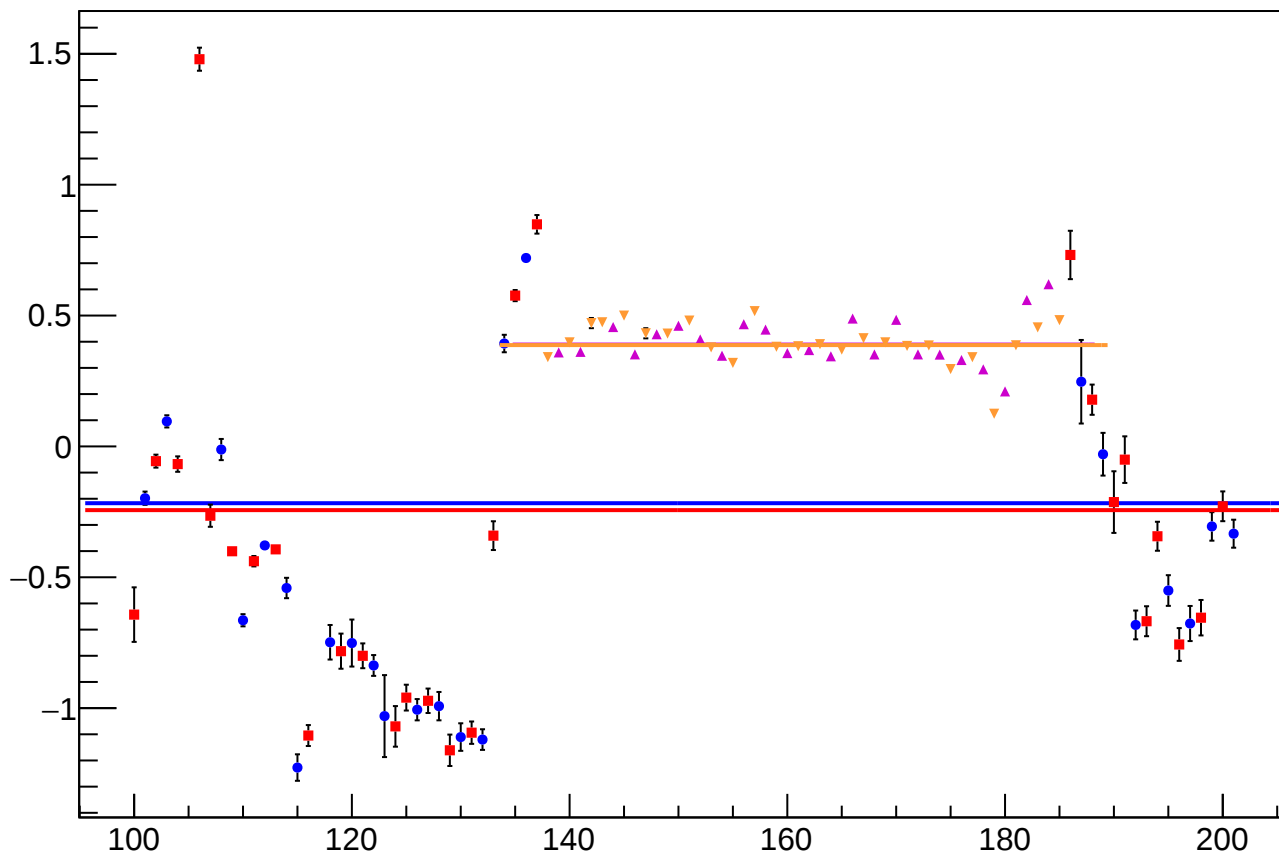
Right: -16.574 ± 0.091 χ^2/NDF : 3051.6/51

In: -19.025 ± 0.053 χ^2/NDF : 6545.1/46

Out: -19.079 ± 0.051 χ^2/NDF : 8230.0/52

All: -19.053 ± 0.037 χ^2/NDF : 14775.7/99

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.217 ± 0.007 χ^2/NDF : 6496.6/23

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.243 ± 0.007 χ^2/NDF : 6509.2/27

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

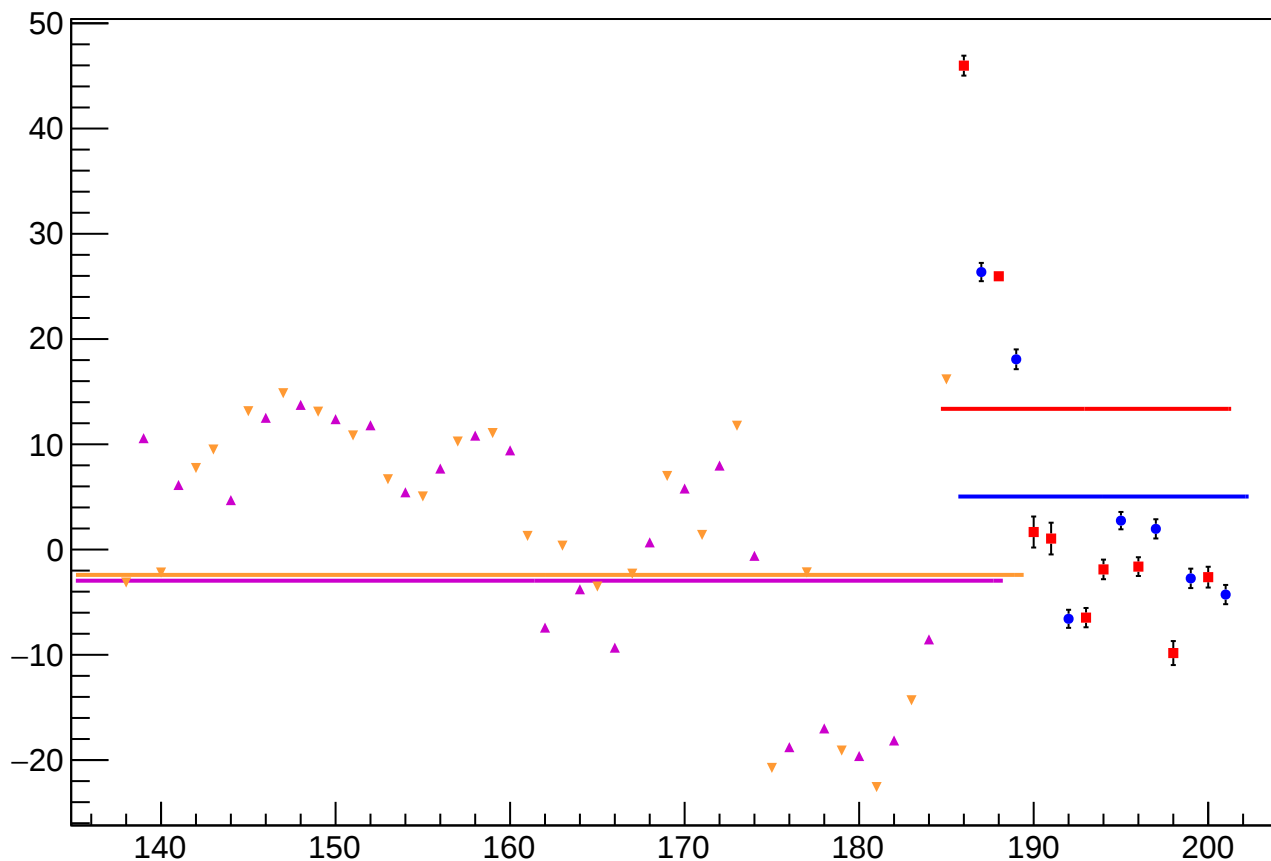
Right: -0.231 ± 0.005 χ^2/NDF : 13012.9/51

In: 0.318 ± 0.002 χ^2/NDF : 13995.1/46

Out: 0.310 ± 0.002 χ^2/NDF : 14968.5/52

All: 0.314 ± 0.002 χ^2/NDF : 28970.2/99

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



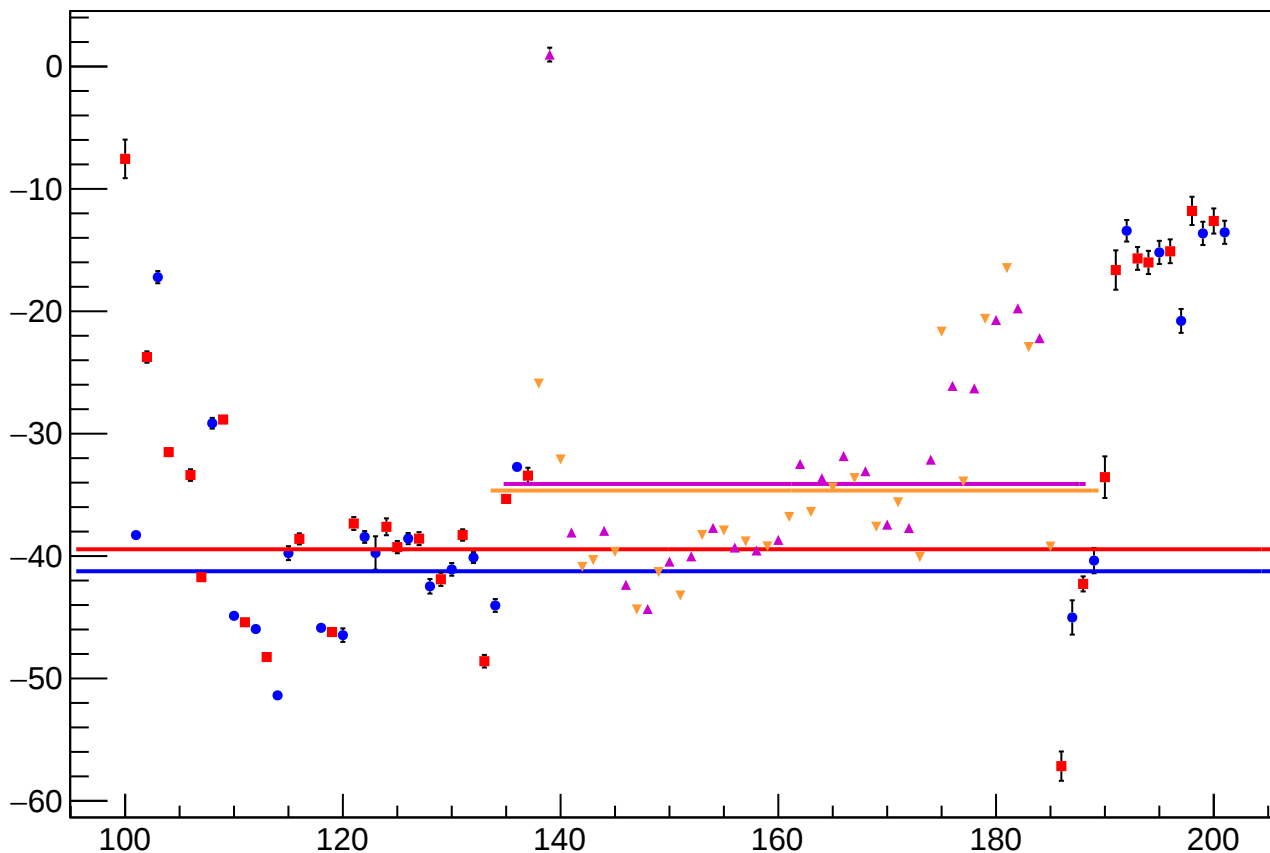
Right In: 5.038 ± 0.336 $\chi^2/\text{NDF}: 1172.9/6$
 Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$
 Right Out: 13.369 ± 0.279 $\chi^2/\text{NDF}: 3878.3/8$
 Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$
 Right: 9.975 ± 0.214 $\chi^2/\text{NDF}: 5415.3/15$

In: -2.752 ± 0.054 $\chi^2/\text{NDF}: 47647.1/29$
 Out: -1.861 ± 0.052 $\chi^2/\text{NDF}: 63341.5/33$

All: -2.287 ± 0.037 $\chi^2/\text{NDF}: 111129.9/63$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -41.241 $\pm$ 0.077 χ^2 /NDF: 10578.8/23

Left Out: -34.646 $\pm$ 0.042 χ^2 /NDF: 34674.7/24

Right Out: -39.444 $\pm$ 0.071 χ^2 /NDF: 14990.4/27

Left In: -34.108 $\pm$ 0.044 χ^2 /NDF: 29052.8/22

Left: -34.390 $\pm$ 0.030 χ^2 /NDF: 63806.0/47

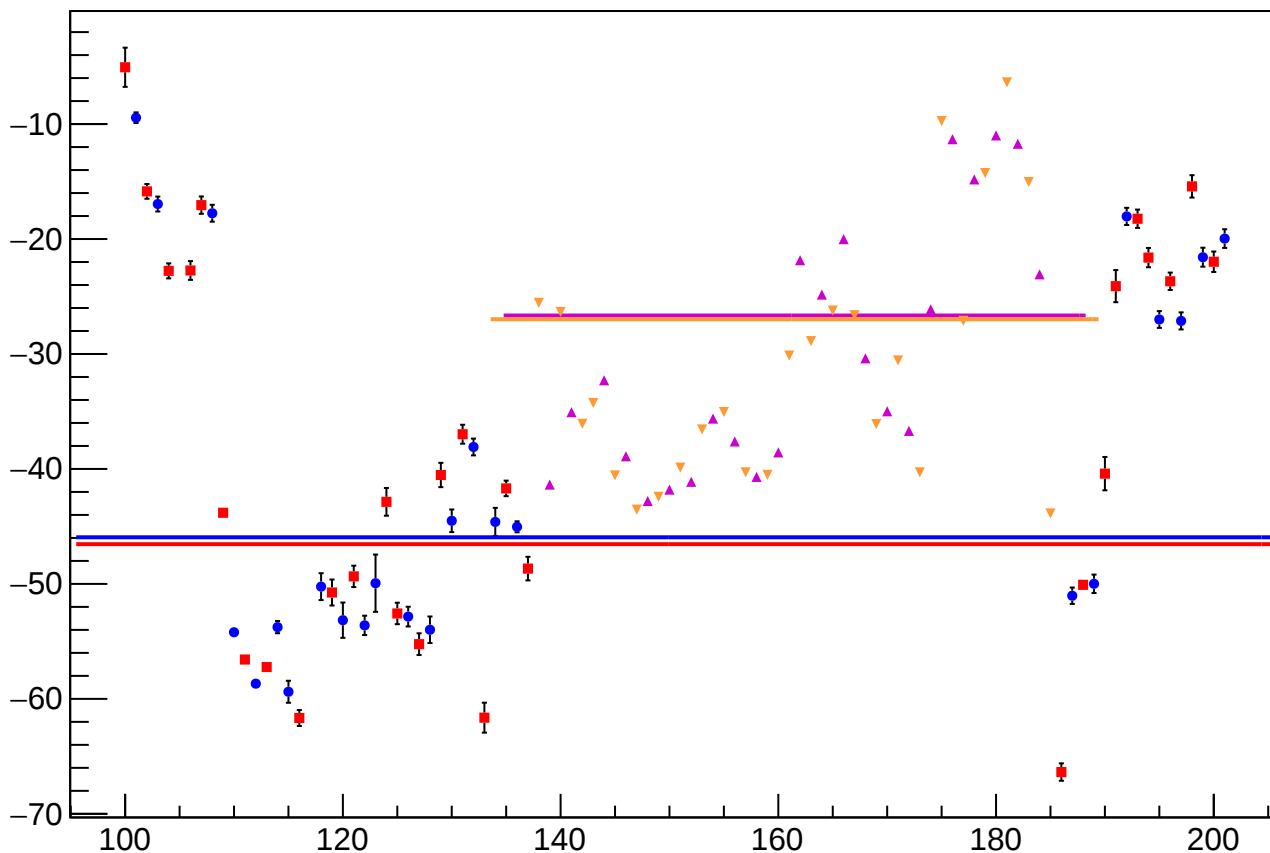
Right: -40.277 $\pm$ 0.052 χ^2 /NDF: 25865.0/51

In: -35.878 $\pm$ 0.038 χ^2 /NDF: 46163.7/46

Out: -35.877 $\pm$ 0.036 χ^2 /NDF: 53049.7/52

All: -35.877 $\pm$ 0.026 χ^2 /NDF: 99213.4/99

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -45.945 ± 0.115 $\chi^2/\text{NDF}: 19842.8/23$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -46.543 ± 0.098 $\chi^2/\text{NDF}: 17846.4/27$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

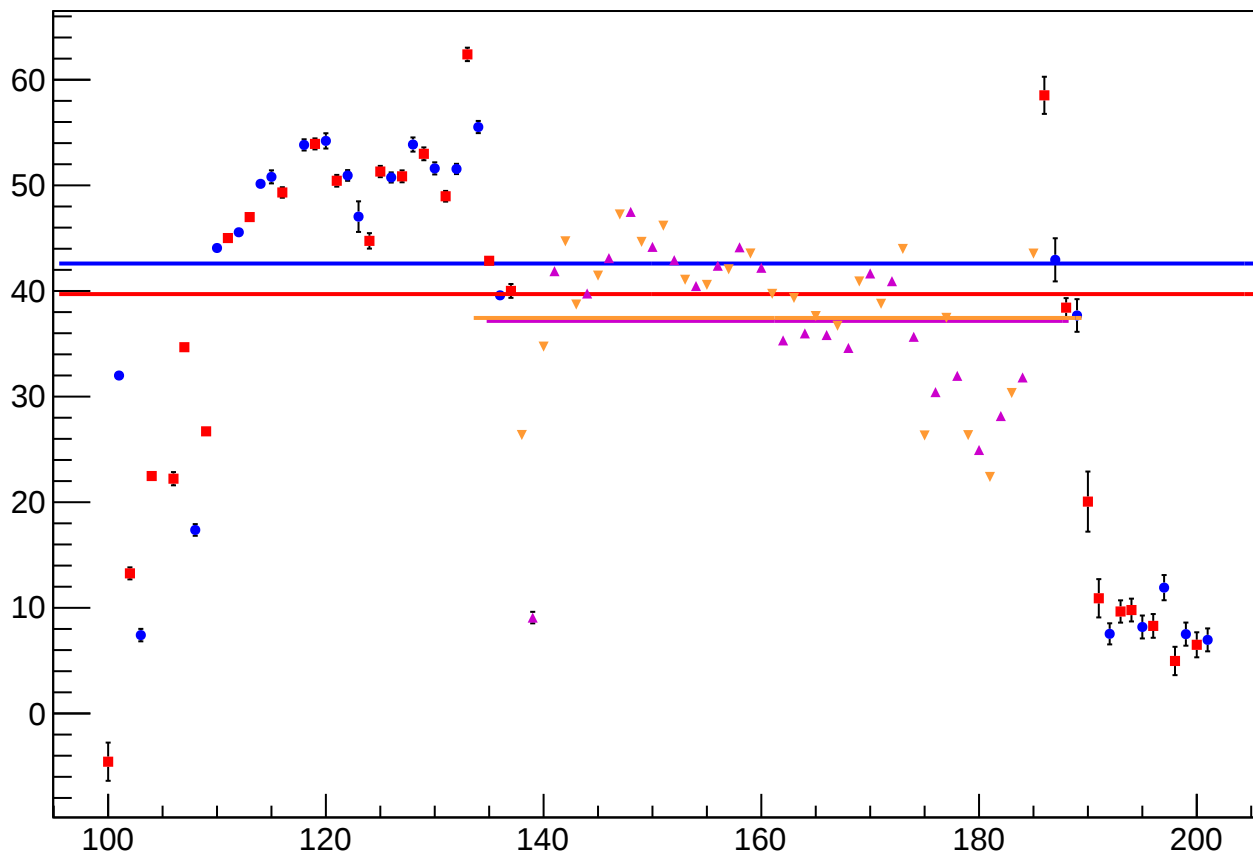
Right: -46.292 ± 0.074 $\chi^2/\text{NDF}: 37705.0/51$

In: -30.259 ± 0.050 $\chi^2/\text{NDF}: 84996.1/46$

Out: -31.460 ± 0.047 $\chi^2/\text{NDF}: 98205.1/52$

All: -30.895 ± 0.034 $\chi^2/\text{NDF}: 183512.2/99$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.600 $\pm$ 0.085 χ^2 /NDF: 15742.6/23

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 39.706 $\pm$ 0.079 χ^2 /NDF: 21914.7/27

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

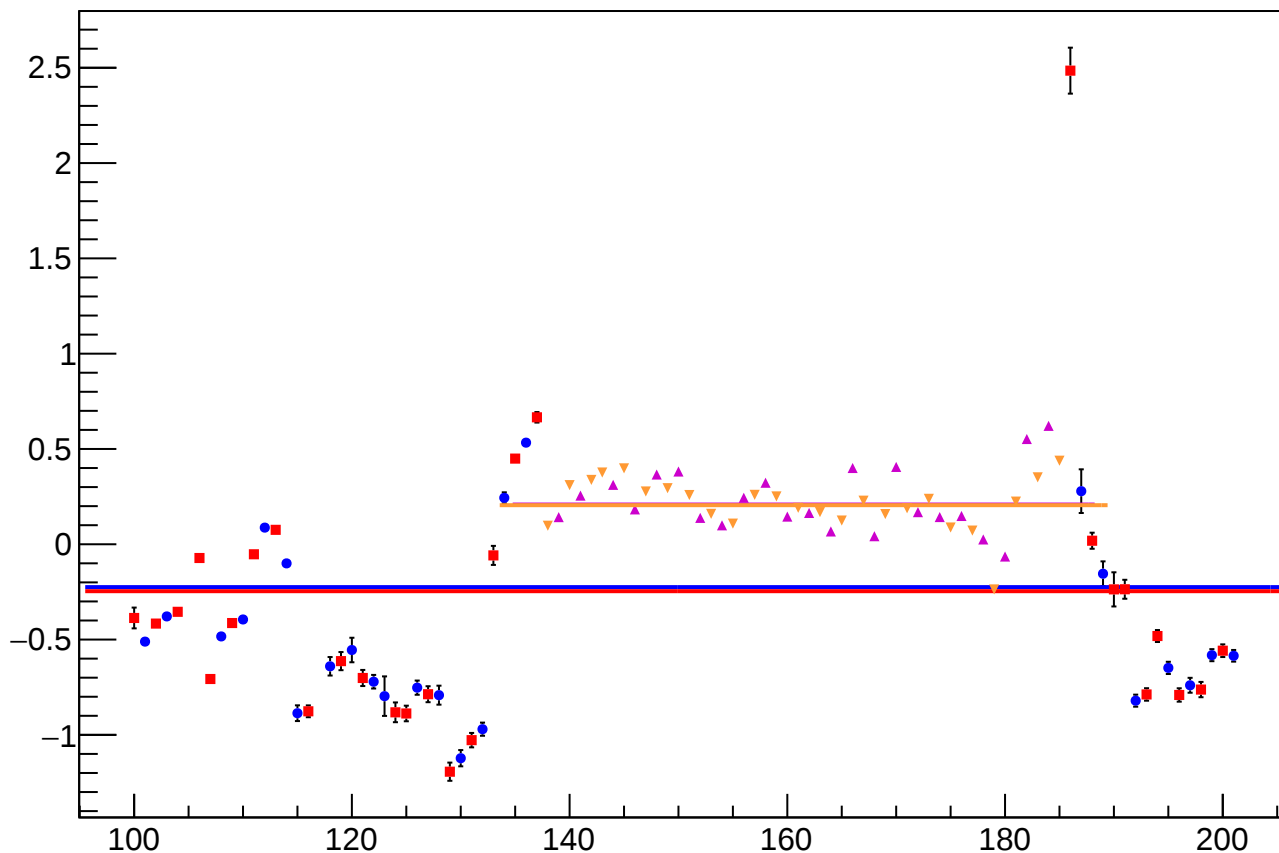
Right: 41.035 $\pm$ 0.058 χ^2 /NDF: 38277.0/51

In: 38.524 $\pm$ 0.043 χ^2 /NDF:36010.3/46

Out: 38.043 $\pm$ 0.040 χ^2 /NDF:44090.8/52

All: 38.271 $\pm$ 0.029 χ^2 /NDF: 80168.1/99

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.225 ± 0.005 χ^2/NDF : 8440.6/23

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.246 ± 0.004 χ^2/NDF : 8832.4/27

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

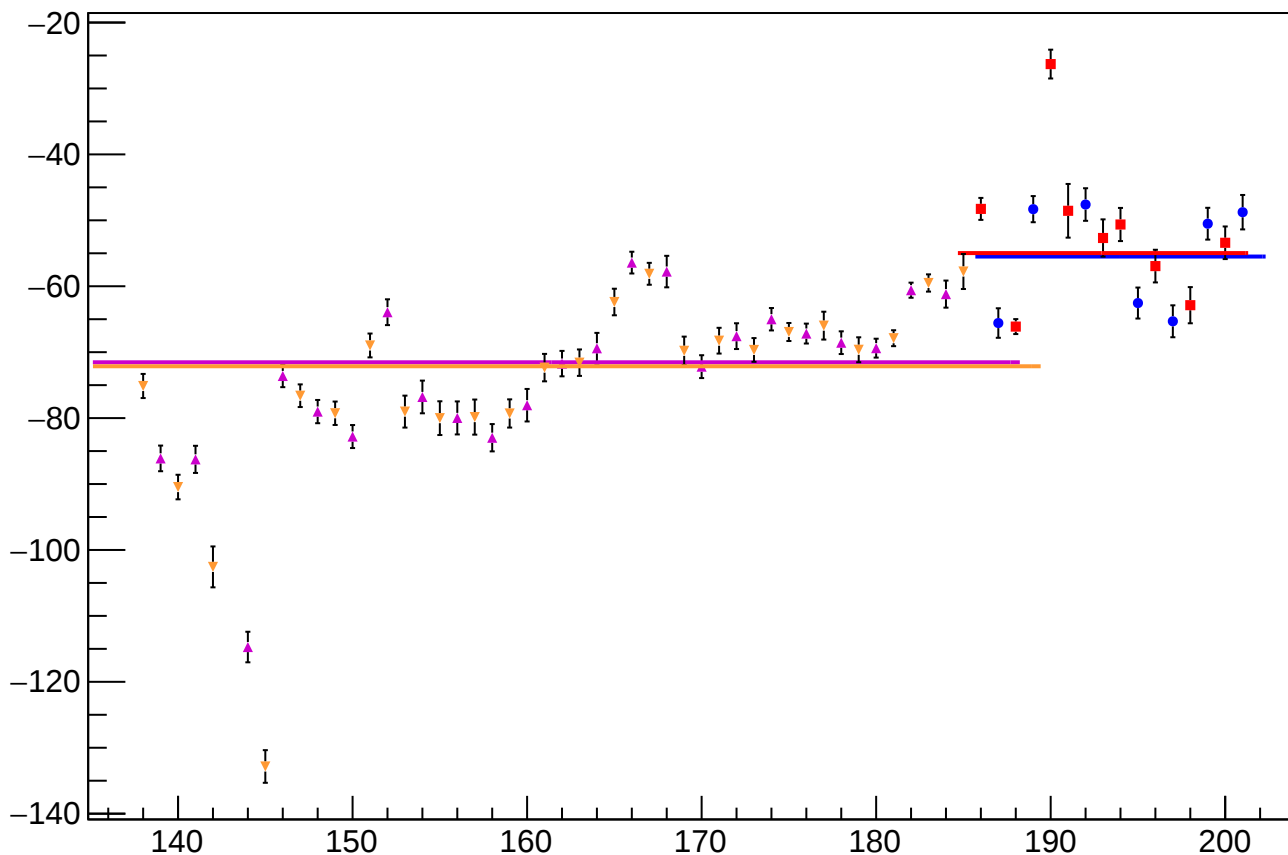
Right: -0.237 ± 0.003 χ^2/NDF : 17285.0/51

In: 0.125 ± 0.002 χ^2/NDF : 20737.8/46

Out: 0.106 ± 0.002 χ^2/NDF : 22104.5/52

All: 0.115 ± 0.001 χ^2/NDF : 42886.4/99

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



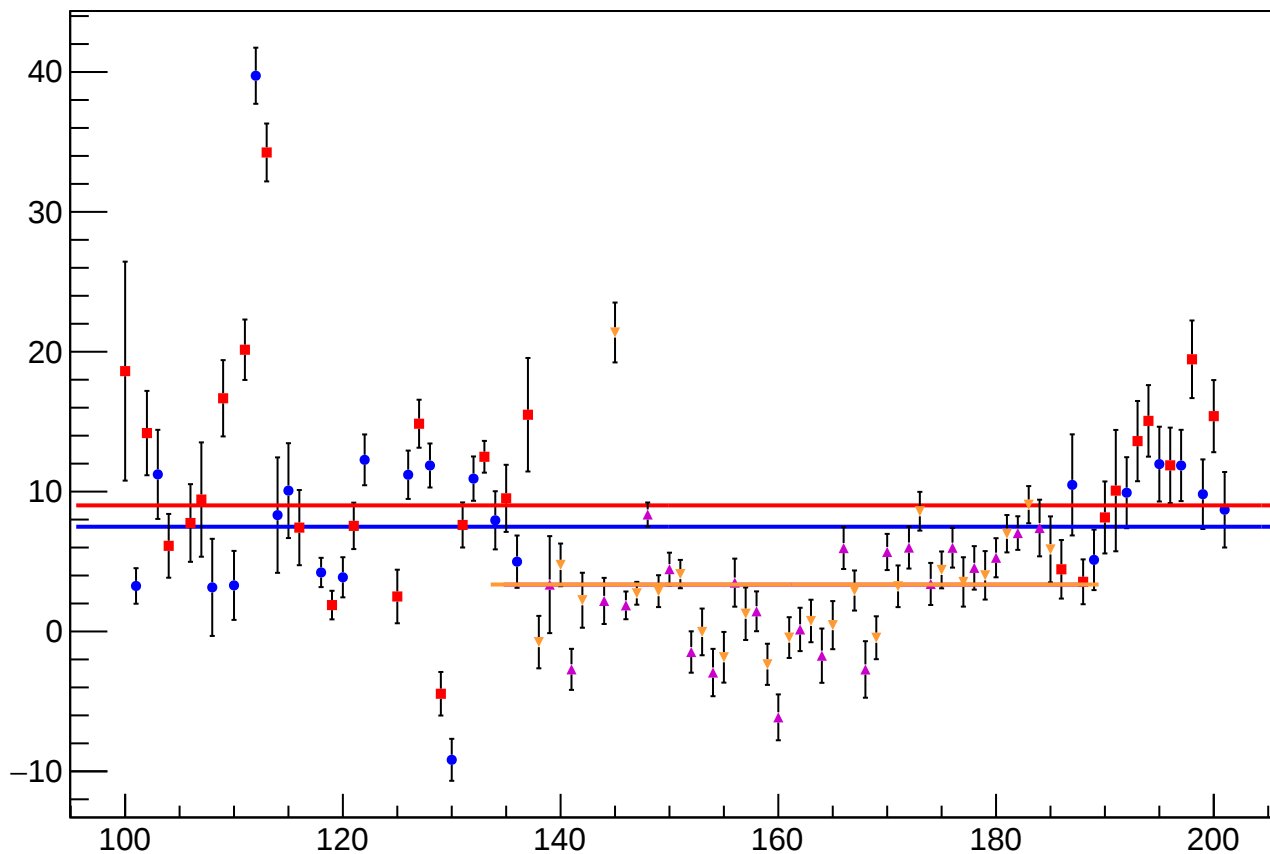
Right In: -55.494 ± 0.881 $\chi^2/\text{NDF}: 80.0/6$
 Left Out: -72.138 ± 0.383 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -54.969 ± 0.682 $\chi^2/\text{NDF}: 300.2/8$
 Left In: -71.534 ± 0.382 $\chi^2/\text{NDF}: 851.4/22$

Left: -71.835 ± 0.270 $\chi^2/\text{NDF}: 1974.0/46$
 Right: -55.166 ± 0.539 $\chi^2/\text{NDF}: 380.3/15$

In: -69.001 ± 0.350 $\chi^2/\text{NDF}: 1210.3/29$
 Out: -68.025 ± 0.334 $\chi^2/\text{NDF}: 1903.2/32$

All: -68.490 ± 0.242 $\chi^2/\text{NDF}: 3117.6/62$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.488 ± 0.402 χ^2/NDF : 450.8/22

Left Out: 3.357 ± 0.295 χ^2/NDF : 167.7/23

Right Out: 9.015 ± 0.393 χ^2/NDF : 396.0/26

Left In: 3.349 ± 0.298 χ^2/NDF : 163.5/22

Left: 3.353 ± 0.210 χ^2/NDF : 331.2/46

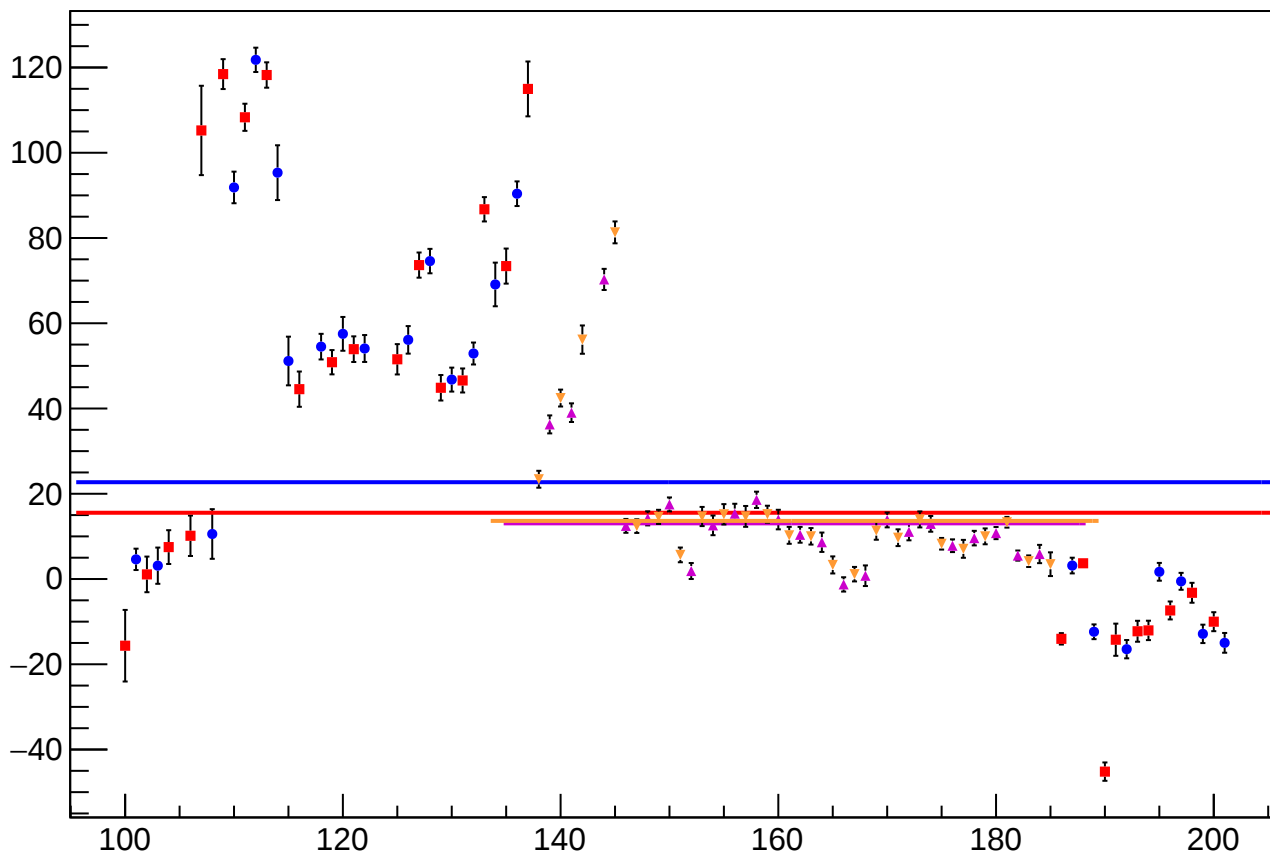
Right: 8.269 ± 0.281 χ^2/NDF : 854.2/49

In: 4.820 ± 0.239 χ^2/NDF : 682.8/45

Out: 5.396 ± 0.236 χ^2/NDF : 696.4/50

All: 5.112 ± 0.168 χ^2/NDF : 1382.2/96

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.711 $\pm$ 0.563 χ^2 /NDF: 4977.4/22

Left Out: 13.632 $\pm$ 0.382 χ^2 /NDF:1300.0/23

Right Out: 15.545 $\pm$ 0.476 χ^2 /NDF: 7241.0/26

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

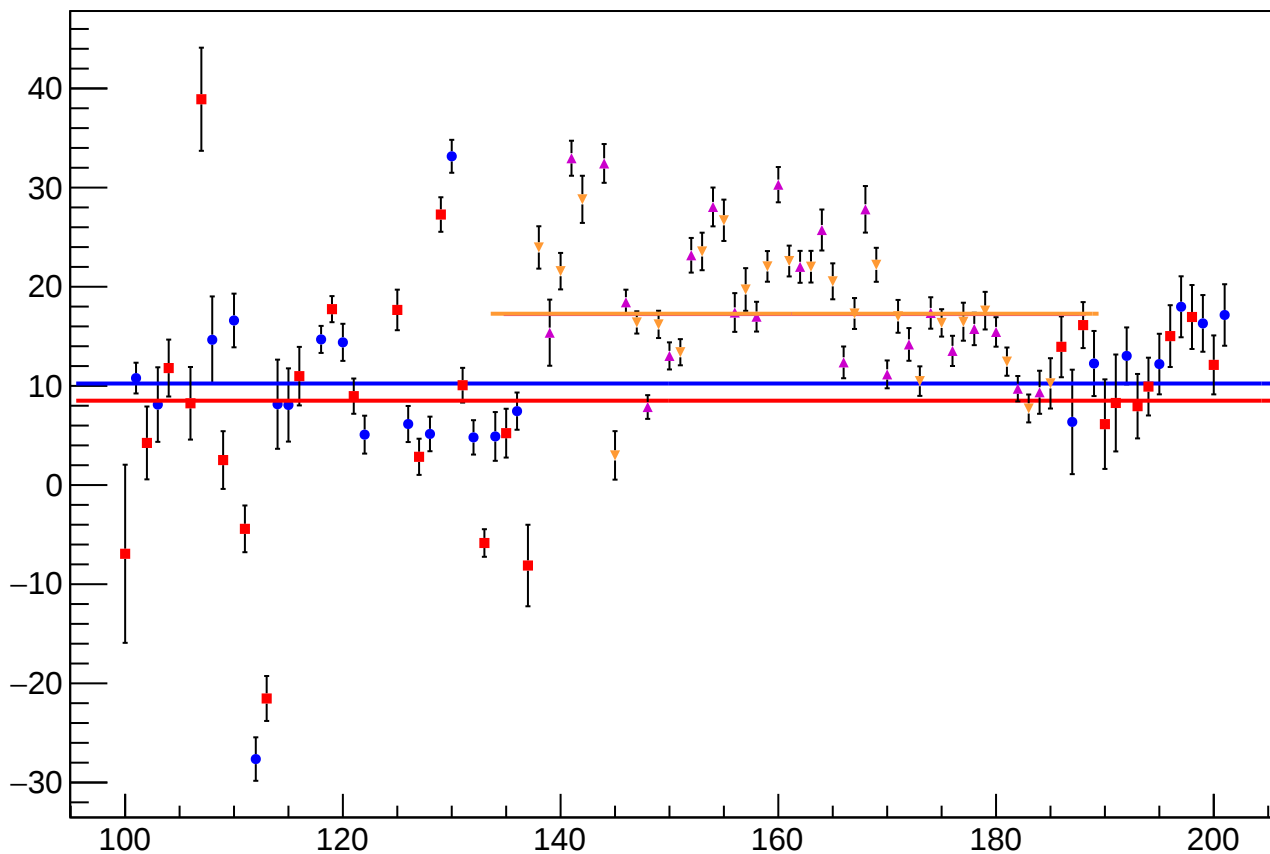
Right: 18.533 $\pm$ 0.364 χ^2 /NDF: 12312.8/49

In: 16.075 $\pm$ 0.315 χ^2 /NDF:6204.1/45

Out: 14.381 $\pm$ 0.298 χ^2 /NDF:8550.9/50

All: 15.181 $\pm$ 0.216 χ^2 /NDF: 14770.2/96

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.240 $\pm$ 0.468 χ^2 /NDF: 567.4/22

Left Out: 17.280 $\pm$ 0.337 χ^2 /NDF:243.9/23

Right Out: 8.508 $\pm$ 0.463 χ^2 /NDF: 598.1/26

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

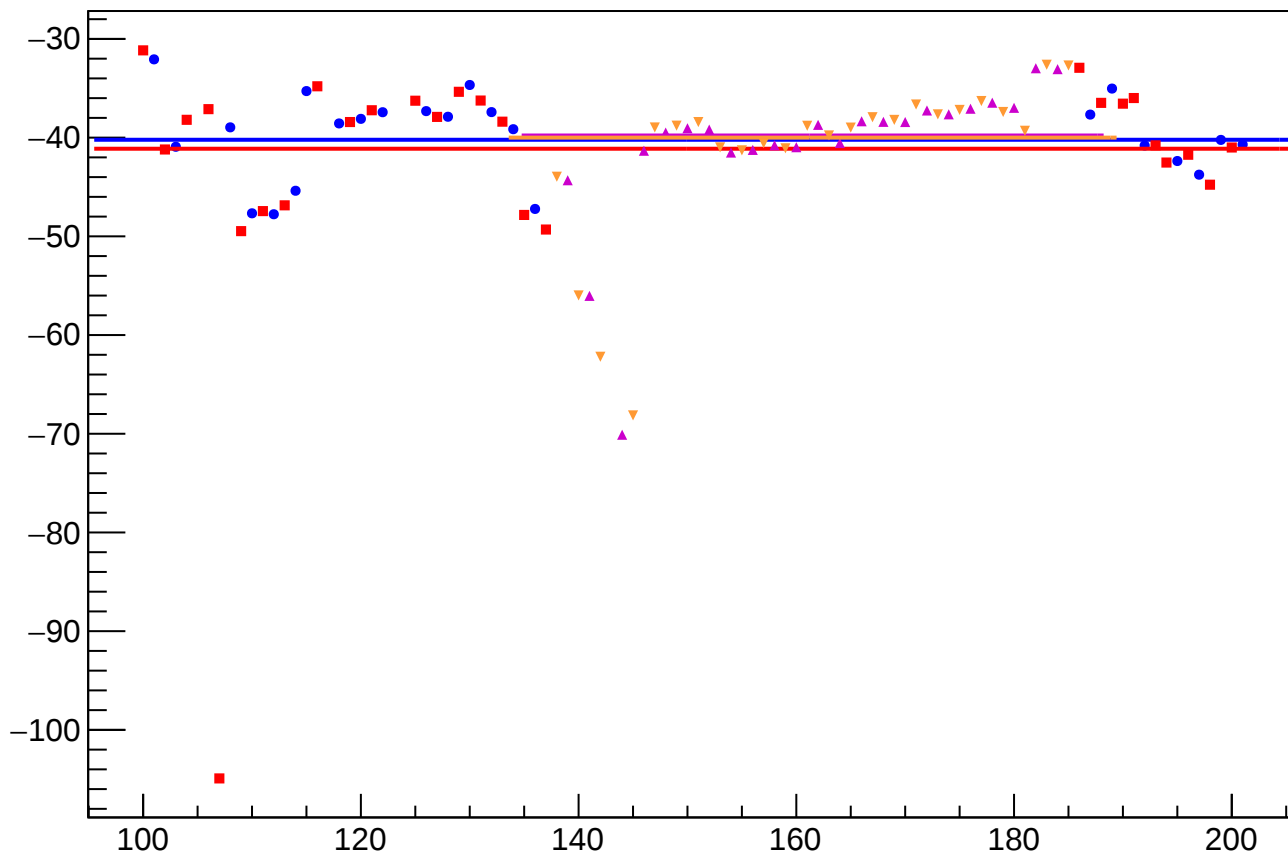
Right: 9.365 $\pm$ 0.329 χ^2 /NDF: 1172.4/49

In: 14.829 $\pm$ 0.275 χ^2 /NDF:1155.1/45

Out: 14.241 $\pm$ 0.273 χ^2 /NDF:1076.5/50

All: 14.533 $\pm$ 0.193 χ^2 /NDF: 2233.9/96

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.216 ± 0.024 χ^2/NDF : 29827.7/22

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -41.125 ± 0.023 χ^2/NDF : 102438.1/26

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

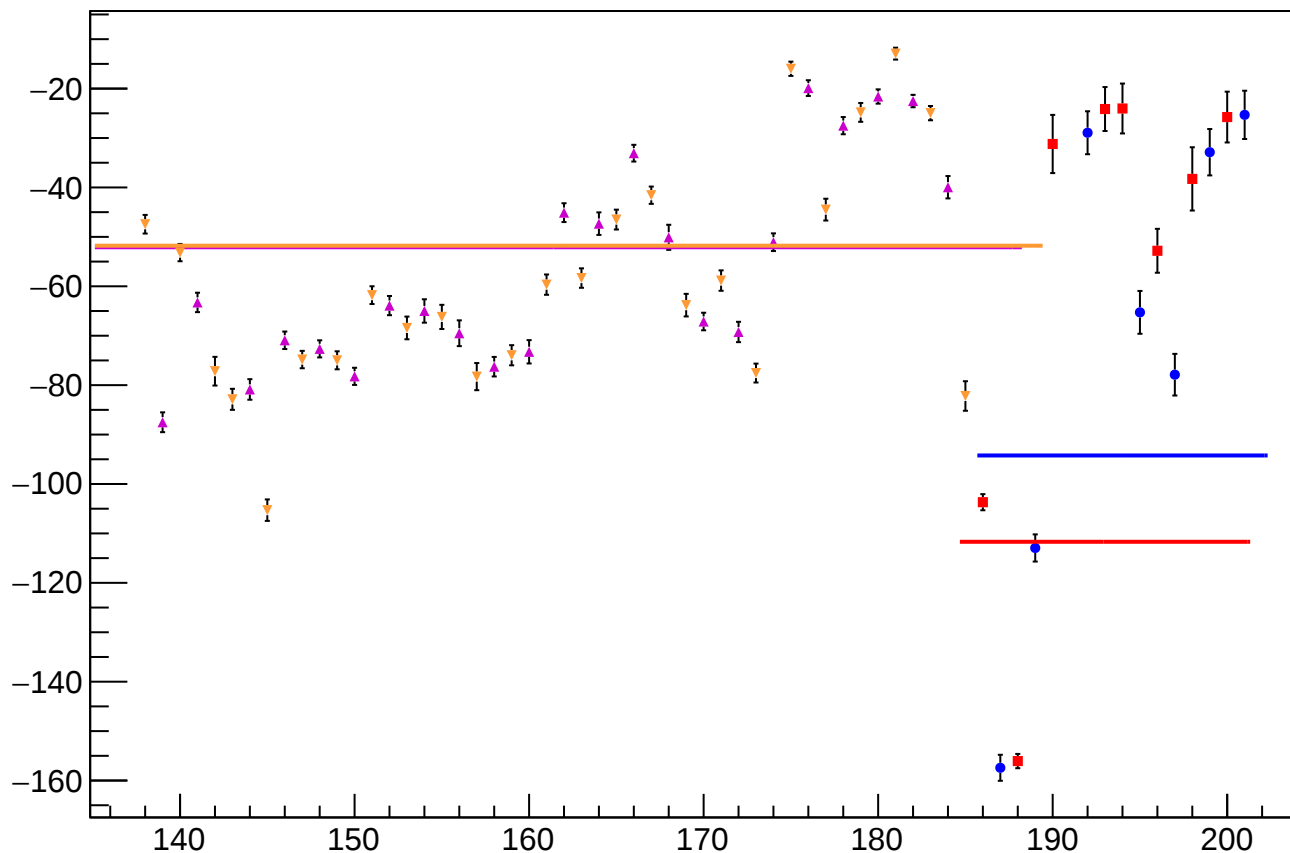
Right: -40.686 ± 0.017 χ^2/NDF : 132999.9/49

In: -39.912 ± 0.013 χ^2/NDF : 174546.3/45

Out: -40.352 ± 0.013 χ^2/NDF : 276302.4/50

All: -40.133 ± 0.009 χ^2/NDF : 451413.6/96

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -94.228 ± 1.378 χ^2/NDF : 1278.8/6

Left Out: -51.787 ± 0.383 χ^2/NDF : 4164.8/24

Right Out: -111.693 ± 0.960 χ^2/NDF : 2429.2/7

Left In: -52.104 ± 0.389 χ^2/NDF : 3280.2/22

Left: -51.943 ± 0.273 χ^2/NDF : 7445.3/47

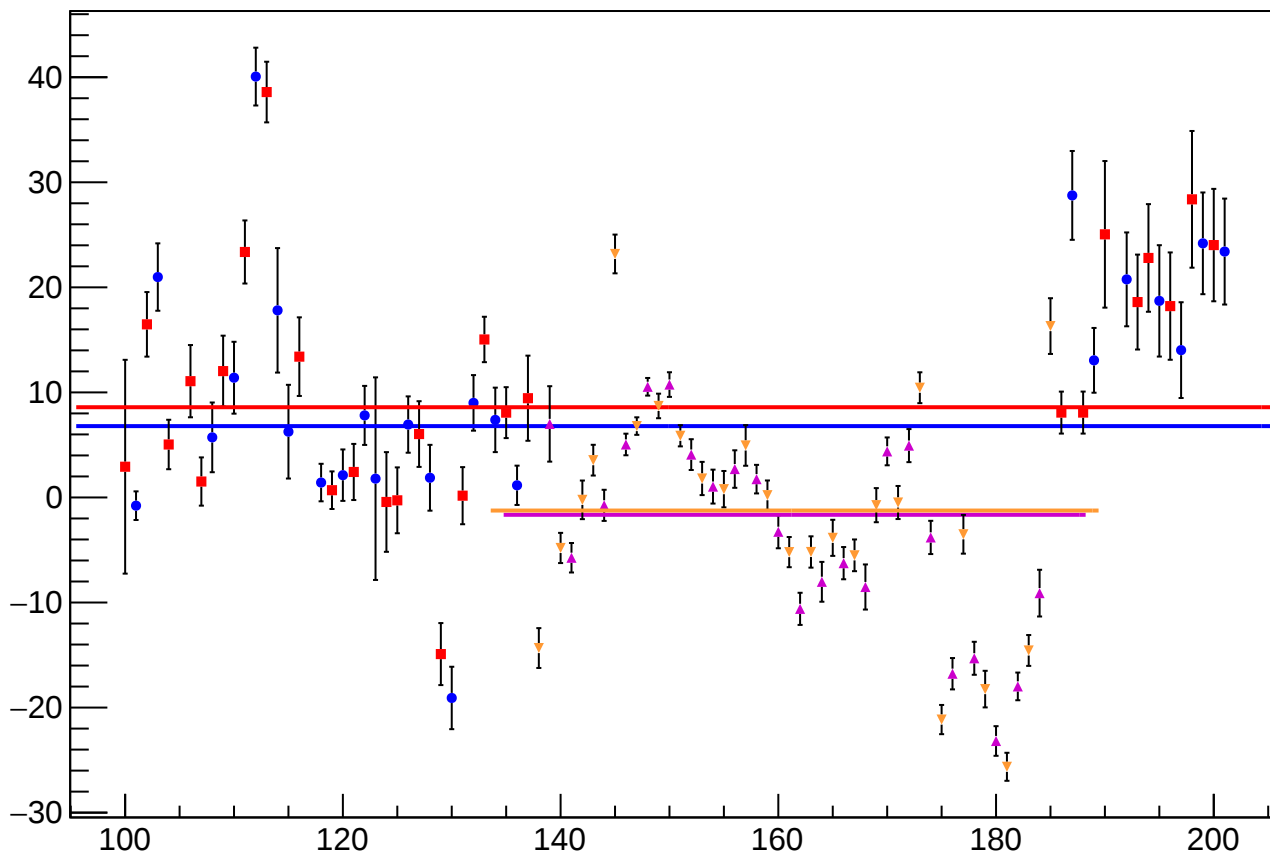
Right: -105.988 ± 0.788 χ^2/NDF : 3816.1/14

In: -55.208 ± 0.374 χ^2/NDF : 5424.6/29

Out: -60.003 ± 0.355 χ^2/NDF : 9956.0/32

All: -57.728 ± 0.258 χ^2/NDF : 15467.0/62

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.791 ± 0.586 $\chi^2/\text{NDF}: 375.5/23$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 8.589 ± 0.571 $\chi^2/\text{NDF}: 312.6/26$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

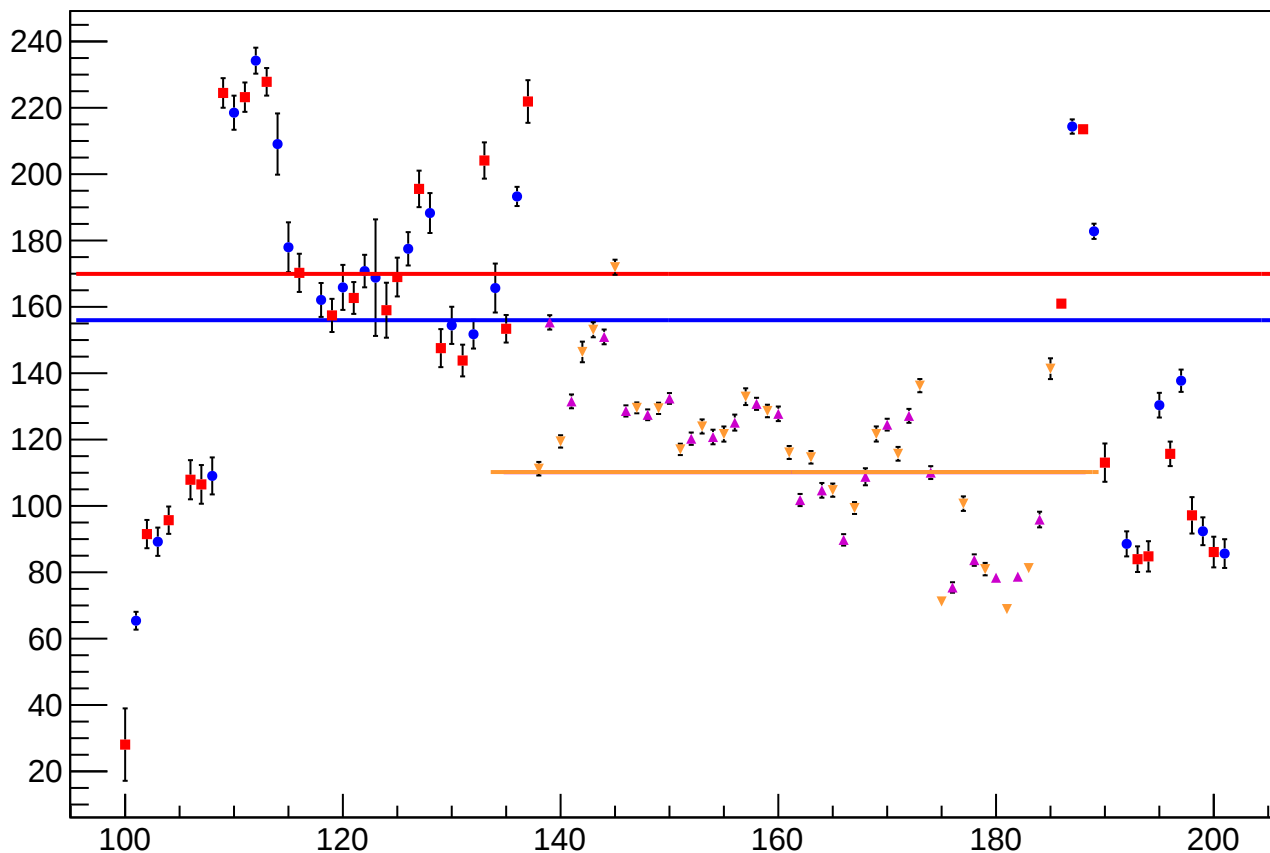
Right: 7.713 ± 0.409 $\chi^2/\text{NDF}: 692.9/50$

In: 0.102 ± 0.267 $\chi^2/\text{NDF}: 1631.9/46$

Out: 0.788 ± 0.260 $\chi^2/\text{NDF}: 1870.2/51$

All: 0.454 ± 0.186 $\chi^2/\text{NDF}: 3505.4/98$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 155.982 ± 0.817 χ^2/NDF : 4026.4/23

Left Out: 110.213 ± 0.382 χ^2/NDF : 4593.7/24

Right Out: 169.939 ± 0.653 χ^2/NDF : 4864.5/26

Left In: 110.171 ± 0.386 χ^2/NDF : 3702.6/22

Left: 110.192 ± 0.272 χ^2/NDF : 8296.2/47

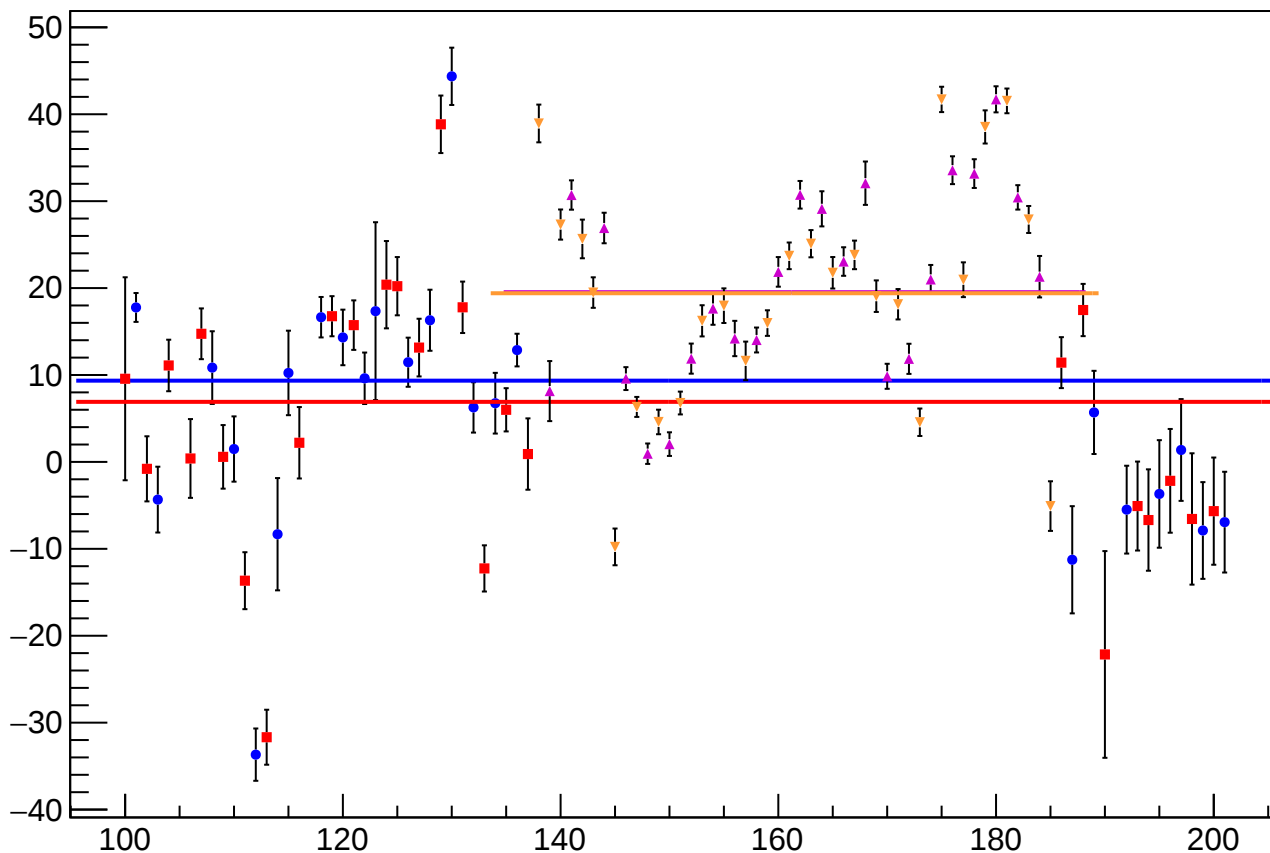
Right: 164.501 ± 0.510 χ^2/NDF : 9069.0/50

In: 118.532 ± 0.349 χ^2/NDF : 10300.0/46

Out: 125.456 ± 0.330 χ^2/NDF : 15696.0/51

All: 122.191 ± 0.240 χ^2/NDF : 26204.0/98

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.348 ± 0.682 $\chi^2/\text{NDF}: 434.8/23$

Left Out: 19.405 ± 0.335 $\chi^2/\text{NDF}: 1453.4/24$

Right Out: 6.910 ± 0.681 $\chi^2/\text{NDF}: 464.6/26$

Left In: 19.530 ± 0.342 $\chi^2/\text{NDF}: 1181.3/22$

Left: 19.466 ± 0.239 $\chi^2/\text{NDF}: 2634.8/47$

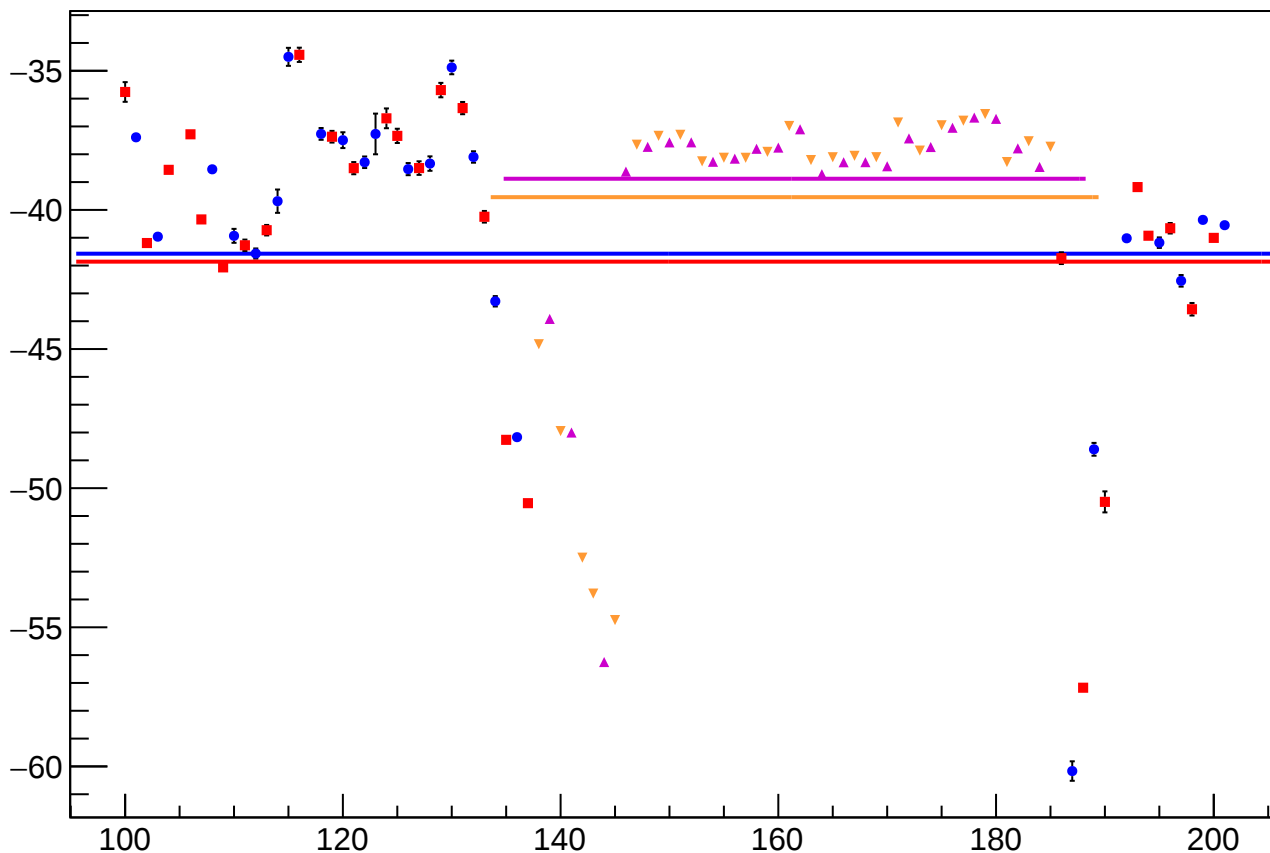
Right: 8.128 ± 0.482 $\chi^2/\text{NDF}: 905.9/50$

In: 17.478 ± 0.306 $\chi^2/\text{NDF}: 1794.3/46$

Out: 16.973 ± 0.300 $\chi^2/\text{NDF}: 2189.3/51$

All: 17.221 ± 0.214 $\chi^2/\text{NDF}: 3985.0/98$

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.573 ± 0.034 χ^2/NDF : 16439.9/23

Left Out: -39.542 ± 0.016 χ^2/NDF : 92024.1/24

Right Out: -41.859 ± 0.033 χ^2/NDF : 22640.4/26

Left In: -38.880 ± 0.016 χ^2/NDF : 53409.9/22

Left: -39.214 ± 0.011 χ^2/NDF : 146312.0/47

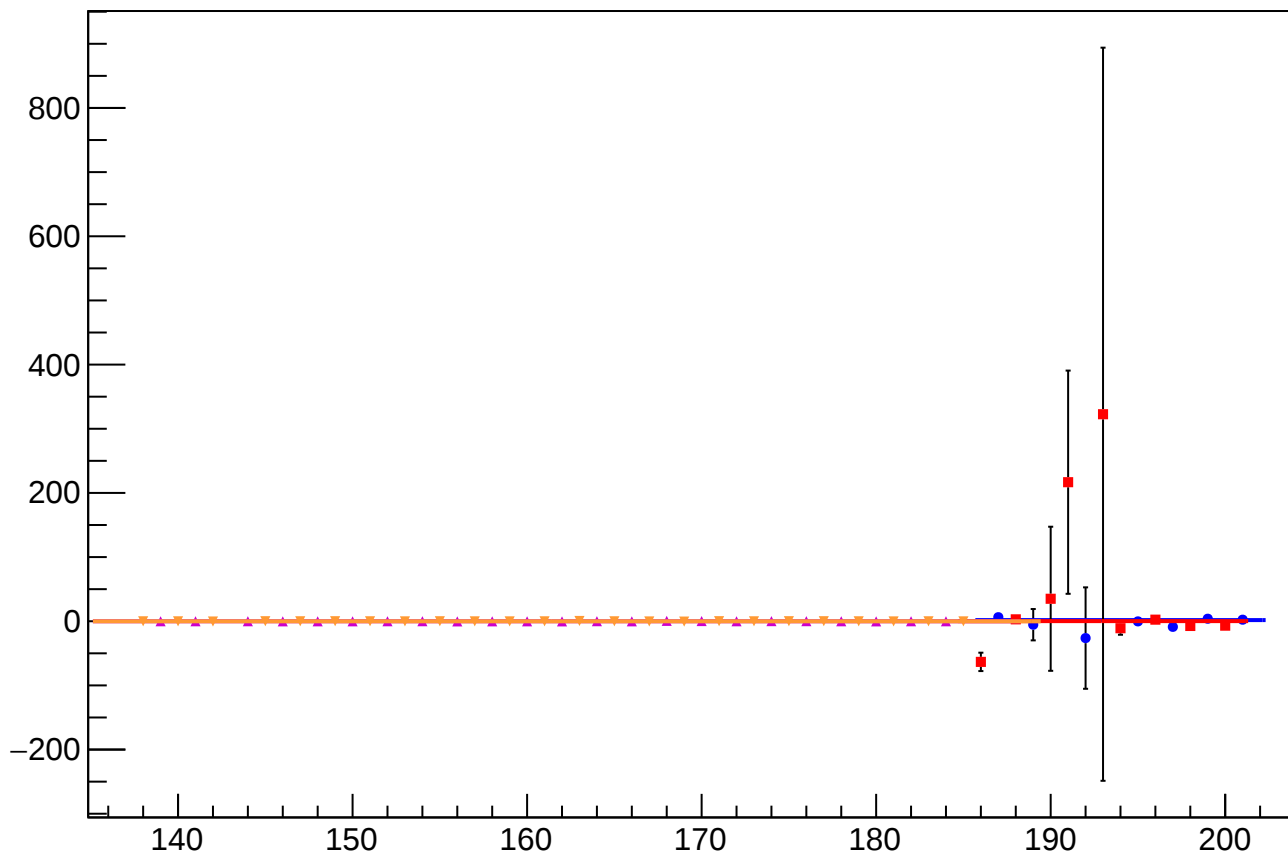
Right: -41.719 ± 0.024 χ^2/NDF : 39116.1/50

In: -39.361 ± 0.014 χ^2/NDF : 74994.5/46

Out: -39.961 ± 0.014 χ^2/NDF : 118588.8/51

All: -39.664 ± 0.010 χ^2/NDF : 194463.8/98

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.796 $\pm$ 1.978 χ^2 /NDF: 7.8/6

Left Out: -0.089 $\pm$ 0.022 χ^2 /NDF:39.7/23

Right Out: 0.191 $\pm$ 1.650 χ^2 /NDF: 28.0/8

Left In: -0.026 $\pm$ 0.022 χ^2 /NDF:33.3/22

Left: -0.057 $\pm$ 0.016 χ^2 /NDF: 77.1/46

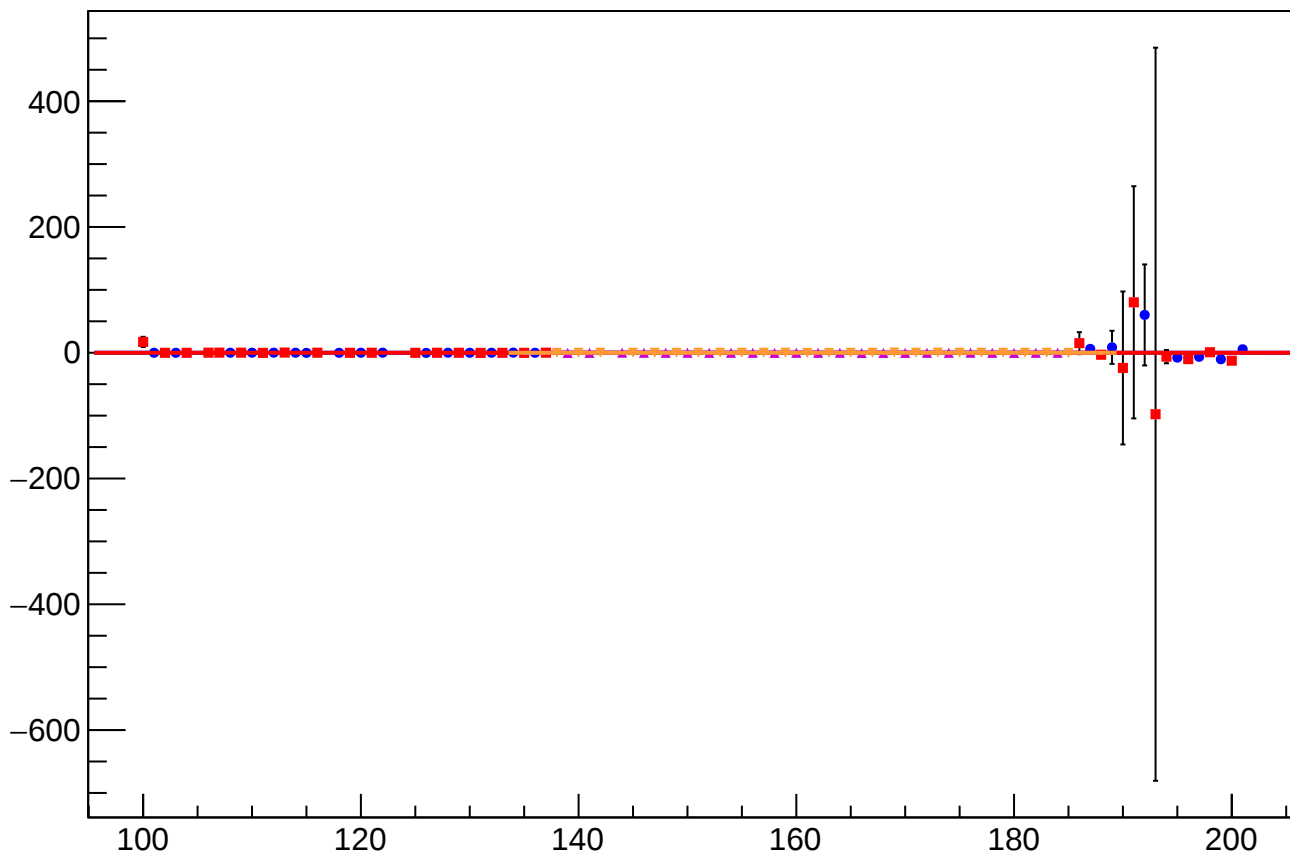
Right: 0.849 $\pm$ 1.267 χ^2 /NDF: 36.2/15

In: -0.025 $\pm$ 0.022 χ^2 /NDF:42.0/29

Out: -0.088 $\pm$ 0.022 χ^2 /NDF:67.7/32

All: -0.057 $\pm$ 0.016 χ^2 /NDF: 113.7/62

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 $\chi^2/\text{NDF}: 22.0/22$

Left Out: -0.081 ± 0.017 $\chi^2/\text{NDF}: 25.8/23$

Right Out: -0.051 ± 0.029 $\chi^2/\text{NDF}: 34.8/26$

Left In: -0.052 ± 0.018 $\chi^2/\text{NDF}: 31.7/22$

Left: -0.067 ± 0.012 $\chi^2/\text{NDF}: 58.9/46$

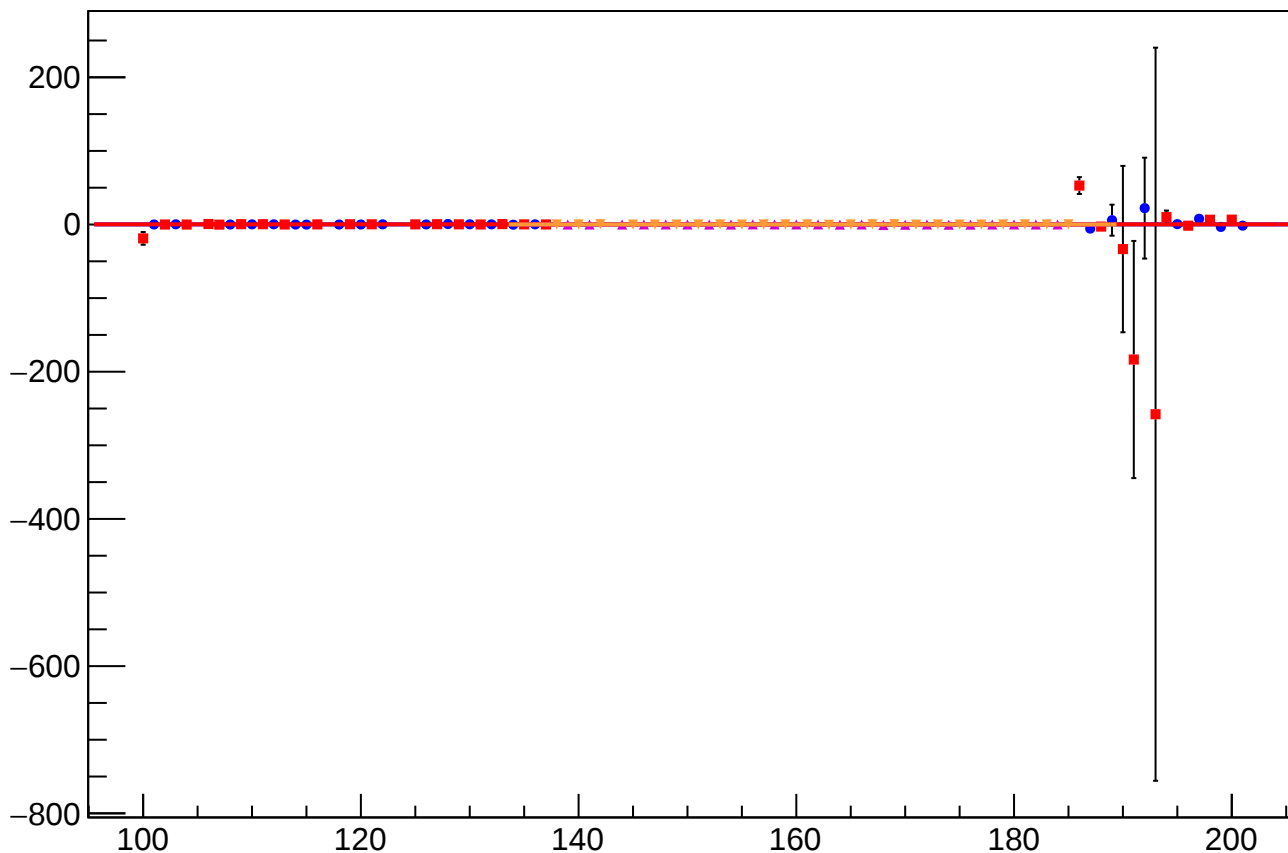
Right: -0.026 ± 0.020 $\chi^2/\text{NDF}: 58.3/49$

In: -0.038 ± 0.015 $\chi^2/\text{NDF}: 55.9/45$

Out: -0.073 ± 0.015 $\chi^2/\text{NDF}: 61.5/50$

All: -0.056 ± 0.011 $\chi^2/\text{NDF}: 120.1/96$

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.173+/-0.053 χ^2/NDF : 22.6/22

Left Out: 0.081+/-0.022 χ^2/NDF : 38.4/23

Right Out: 0.235+/-0.054 χ^2/NDF : 52.3/26

Left In: 0.020+/-0.022 χ^2/NDF : 35.6/22

Left: 0.051+/-0.016 χ^2/NDF : 77.8/46

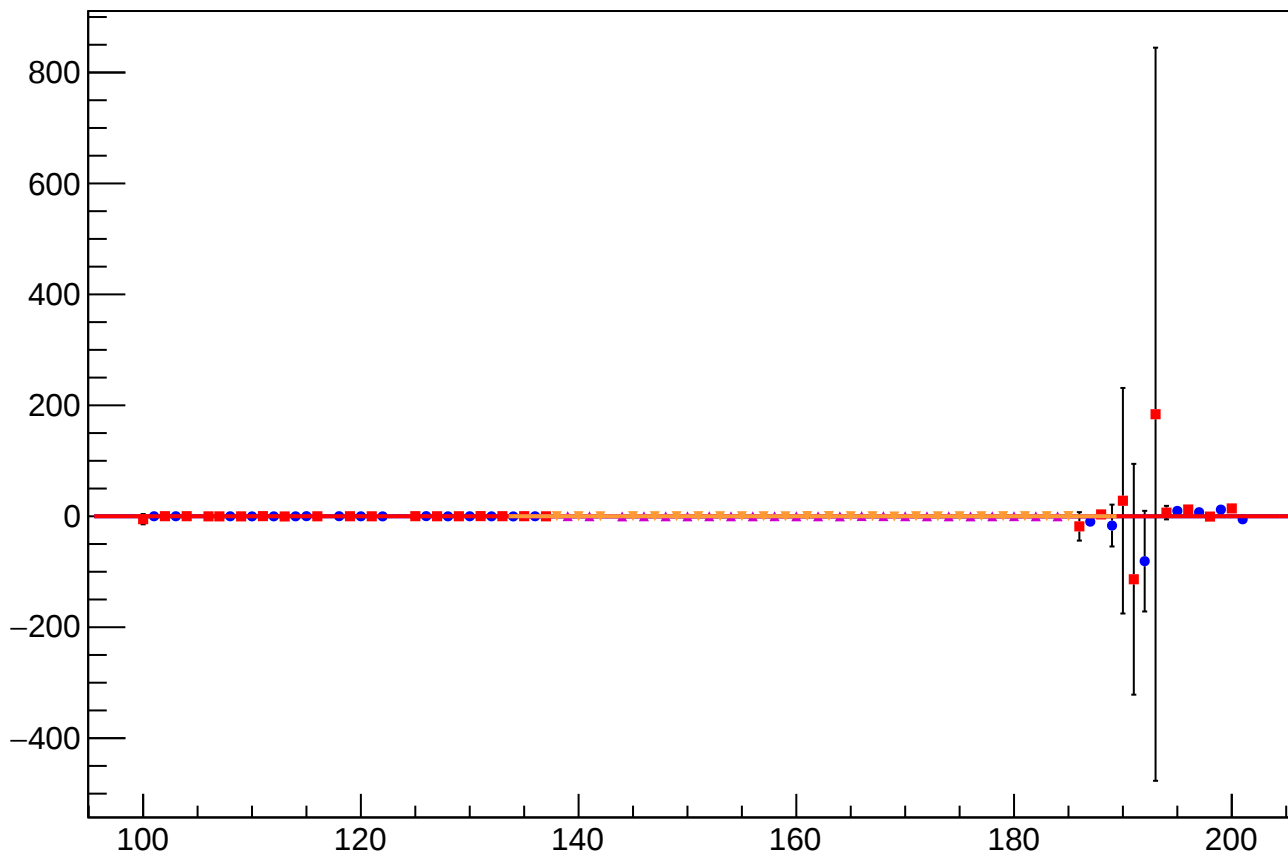
Right: 0.203+/-0.038 χ^2/NDF : 75.6/49

In: 0.043+/-0.020 χ^2/NDF : 65.3/45

Out: 0.103+/-0.020 χ^2/NDF : 97.6/50

All: 0.073+/-0.014 χ^2/NDF : 167.2/96

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.033 $\chi^2/\text{NDF}: 23.9/22$

Left Out: 0.105 ± 0.020 $\chi^2/\text{NDF}: 29.5/23$

Right Out: 0.058 ± 0.034 $\chi^2/\text{NDF}: 29.0/26$

Left In: 0.069 ± 0.020 $\chi^2/\text{NDF}: 31.3/22$

Left: 0.088 ± 0.014 $\chi^2/\text{NDF}: 62.5/46$

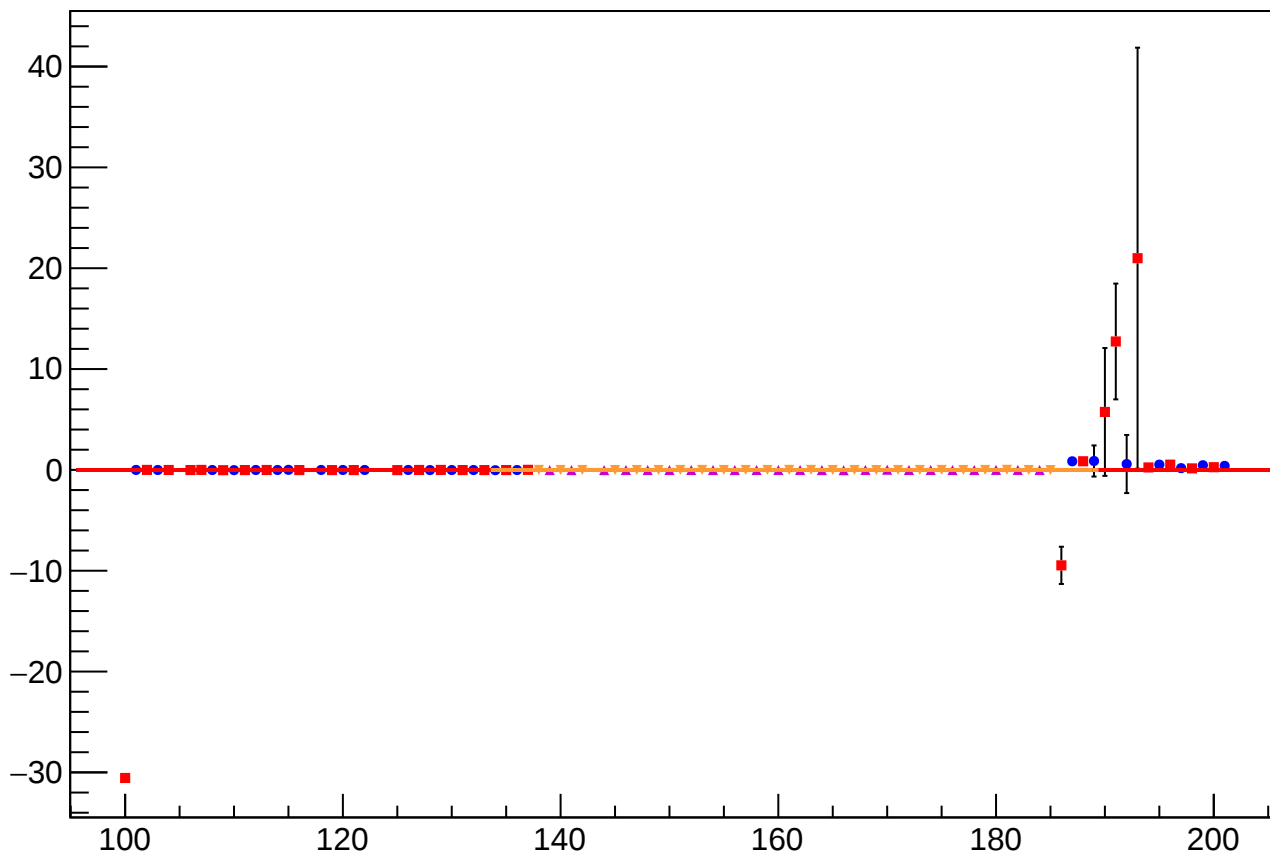
Right: 0.025 ± 0.024 $\chi^2/\text{NDF}: 54.7/49$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 59.1/45$

Out: 0.093 ± 0.017 $\chi^2/\text{NDF}: 59.9/50$

All: 0.071 ± 0.012 $\chi^2/\text{NDF}: 122.4/96$

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 35.2/22

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11945.7/26

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

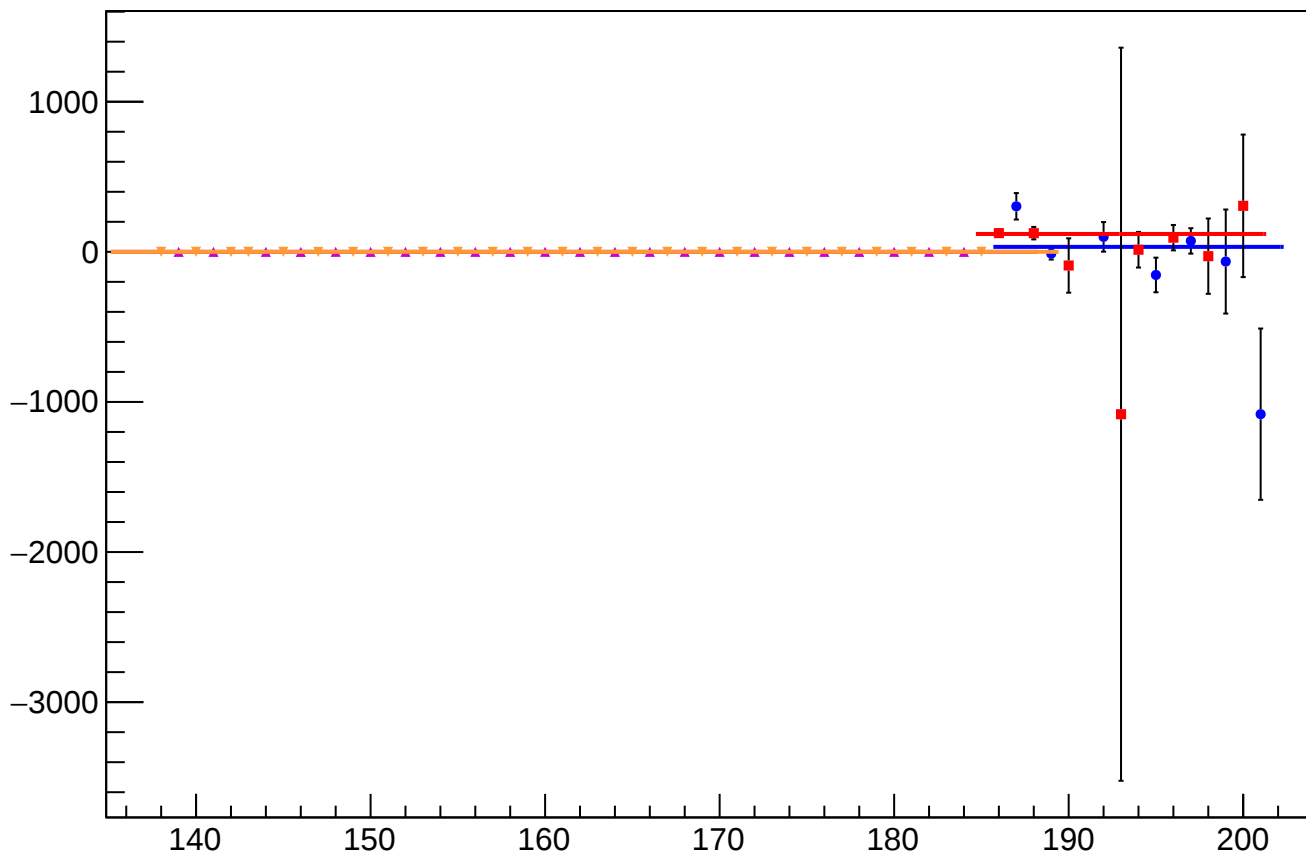
Right: -0.012 ± 0.001 χ^2/NDF : 11980.9/49

In: -0.009 ± 0.001 χ^2/NDF : 78.2/45

Out: -0.009 ± 0.001 χ^2/NDF : 11979.7/50

All: -0.009 ± 0.001 χ^2/NDF : 12058.2/96

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 33.080+/-30.155 χ^2/NDF : 17.9/6

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 119.057+/-16.526 χ^2/NDF : 3.1/7

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

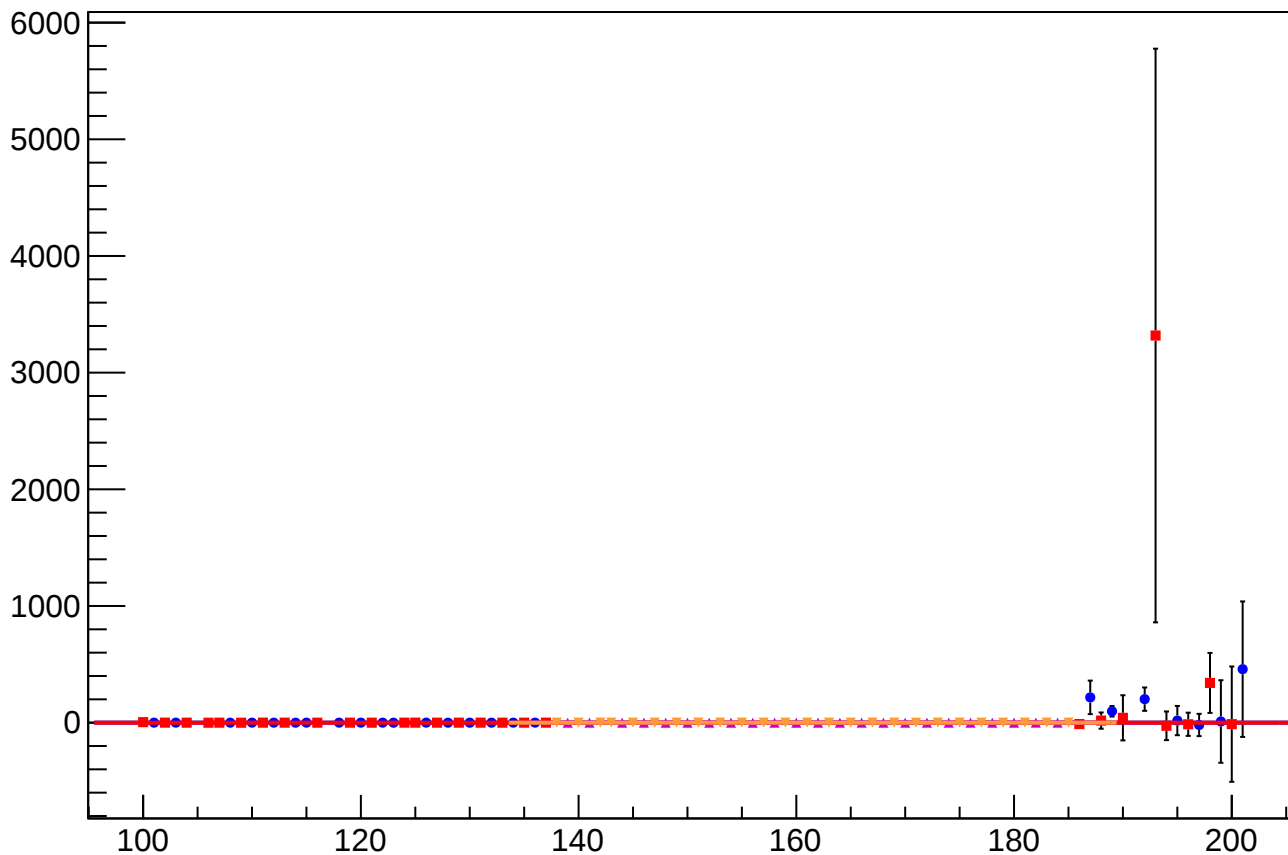
Right: 99.199+/-14.492 χ^2/NDF : 27.2/14

In: 0.002+/-0.028 χ^2/NDF :48.1/29

Out: 0.018+/-0.027 χ^2/NDF :85.9/32

All: 0.010+/-0.019 χ^2/NDF : 134.2/62

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022+/-0.037 χ^2/NDF : 34.7/23

Left Out: -0.060+/-0.021 χ^2/NDF : 24.6/24

Right Out: -0.120+/-0.039 χ^2/NDF : 22.5/26

Left In: -0.071+/-0.022 χ^2/NDF : 49.0/22

Left: -0.065+/-0.015 χ^2/NDF : 73.7/47

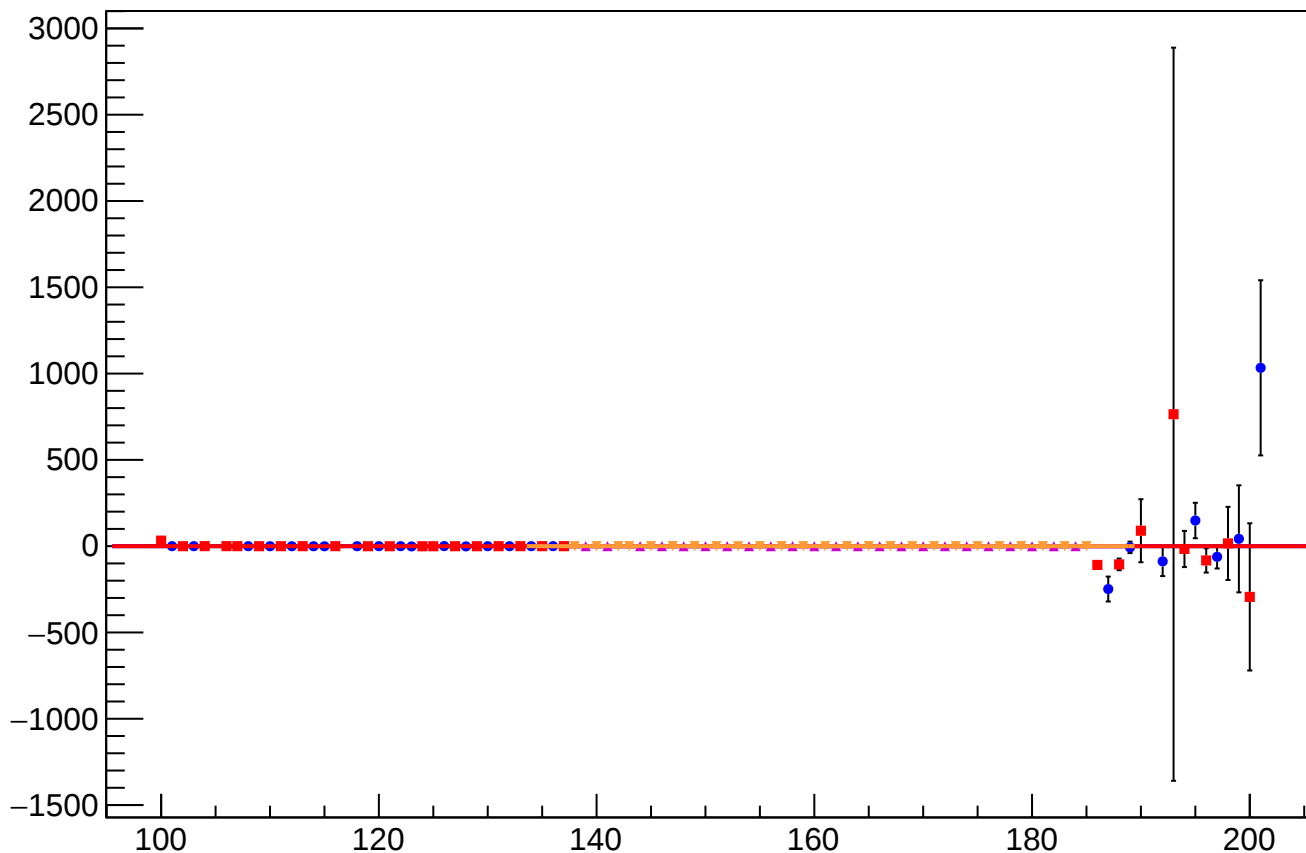
Right: -0.068+/-0.027 χ^2/NDF : 60.5/50

In: -0.058+/-0.019 χ^2/NDF : 85.0/46

Out: -0.073+/-0.019 χ^2/NDF : 49.0/51

All: -0.066+/-0.013 χ^2/NDF : 134.3/98

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 44.8/23$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 78.1/26$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

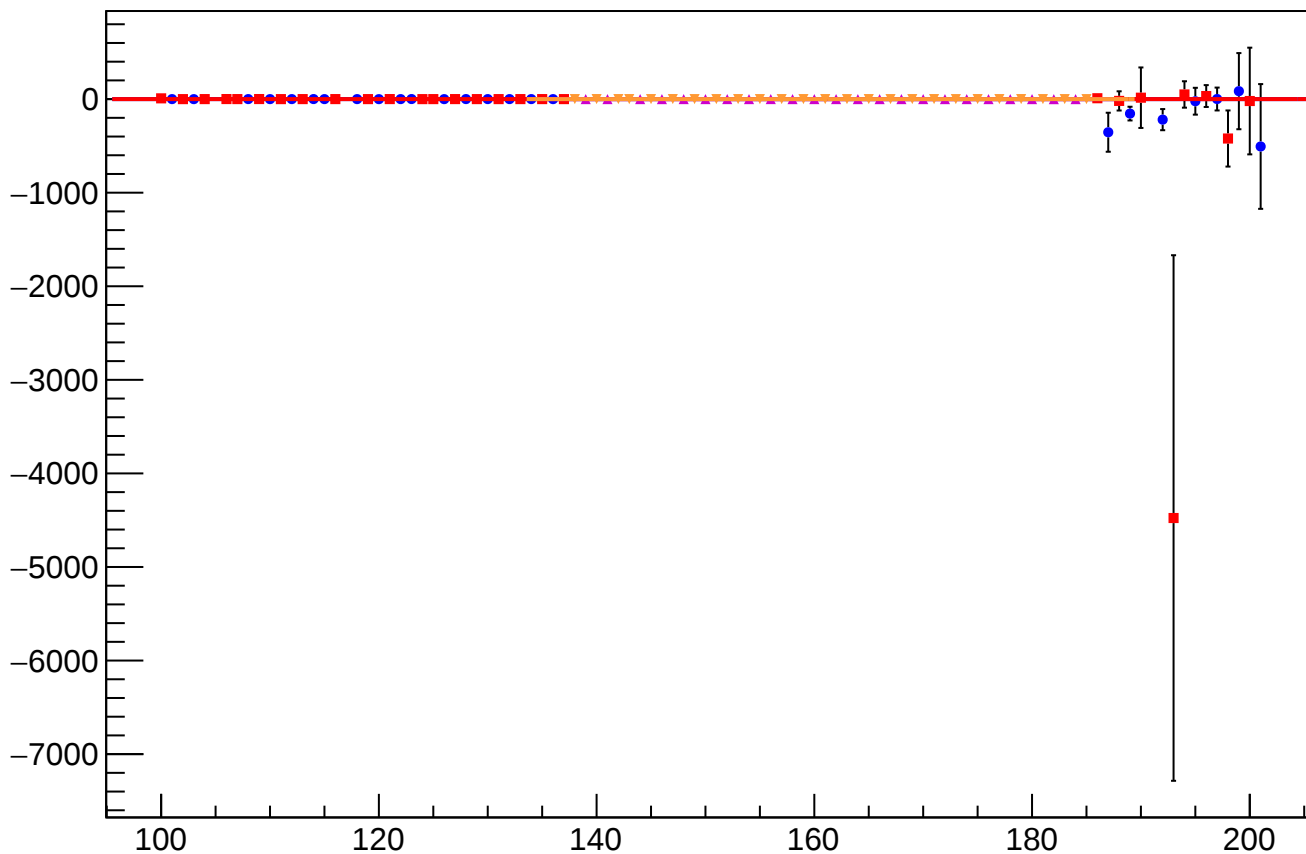
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 123.0/50$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 75.2/46$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 111.0/51$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 186.3/98$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018+/-0.043 χ^2/NDF : 33.4/23

Left Out: 0.063+/-0.024 χ^2/NDF :24.6/24

Right Out: 0.144+/-0.045 χ^2/NDF : 21.6/26

Left In: 0.069+/-0.025 χ^2/NDF :51.8/22

Left: 0.066+/-0.017 χ^2/NDF : 76.5/47

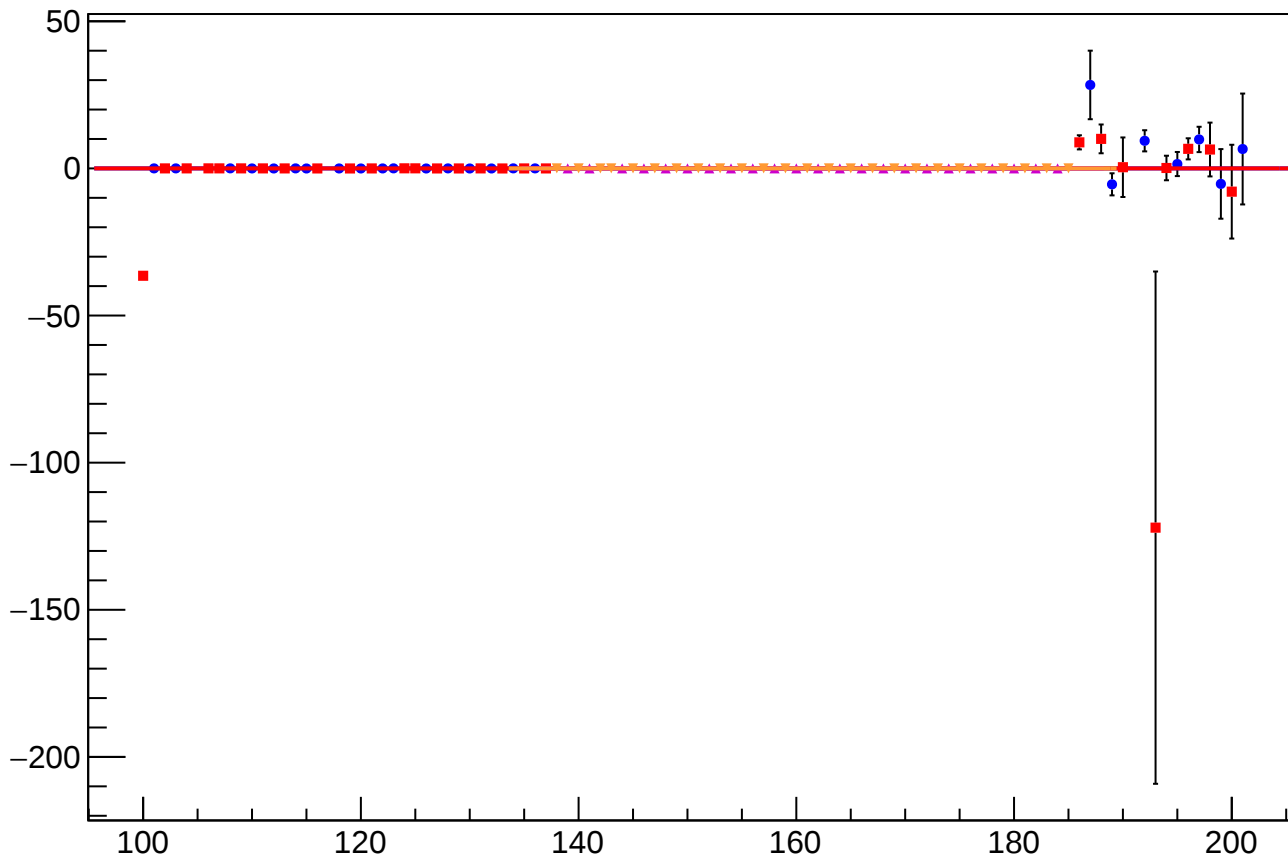
Right: 0.077+/-0.031 χ^2/NDF : 59.1/50

In: 0.056+/-0.021 χ^2/NDF :86.2/46

Out: 0.081+/-0.021 χ^2/NDF :48.8/51

All: 0.069+/-0.015 χ^2/NDF : 135.7/98

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 ± 0.002 χ^2/NDF : 51.0/23

Left Out: 0.008 ± 0.001 χ^2/NDF : 26.3/24

Right Out: 0.001 ± 0.002 χ^2/NDF : 10473.1/26

Left In: 0.009 ± 0.001 χ^2/NDF : 15.0/22

Left: 0.009 ± 0.001 χ^2/NDF : 41.4/47

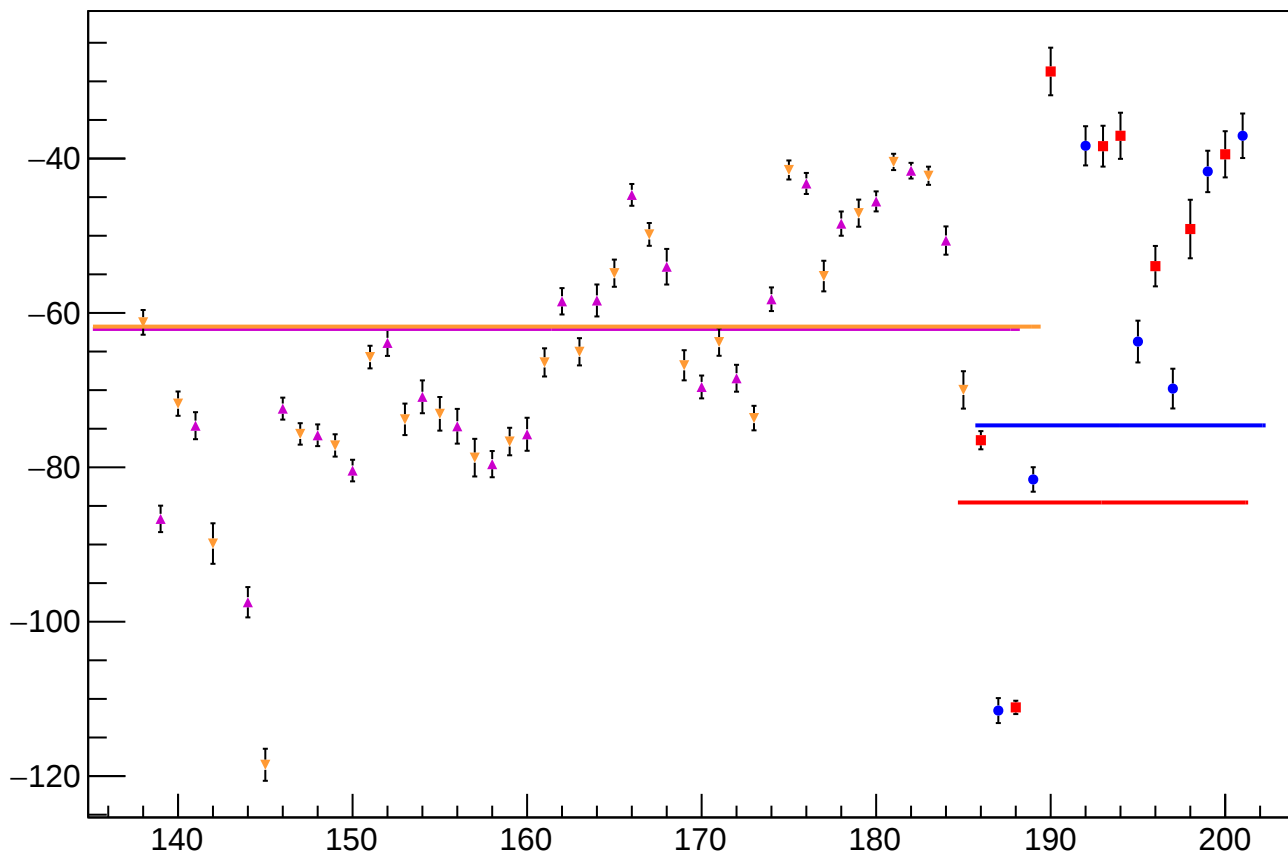
Right: 0.001 ± 0.002 χ^2/NDF : 10524.1/50

In: 0.007 ± 0.001 χ^2/NDF : 75.5/46

Out: 0.007 ± 0.001 χ^2/NDF : 10508.3/51

All: 0.007 ± 0.001 χ^2/NDF : 10583.9/98

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -74.567 ± 0.822 χ^2/NDF : 1083.8/6

Left Out: -61.771 ± 0.334 χ^2/NDF : 2504.9/23

Right Out: -84.555 ± 0.603 χ^2/NDF : 2326.9/7

Left In: -62.073 ± 0.332 χ^2/NDF : 2192.0/22

Left: -61.923 ± 0.236 χ^2/NDF : 4697.3/46

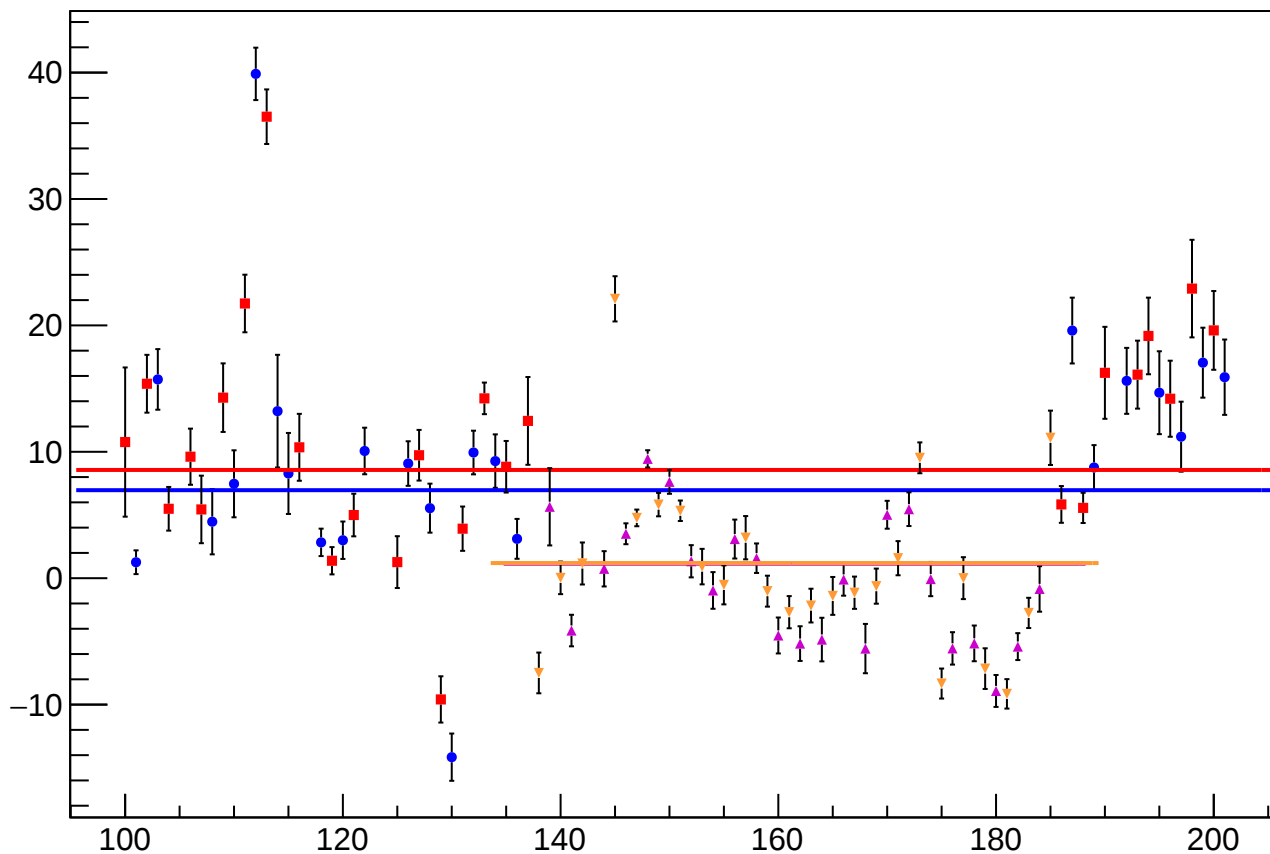
Right: -81.057 ± 0.486 χ^2/NDF : 3506.7/14

In: -63.829 ± 0.308 χ^2/NDF : 3474.4/29

Out: -67.112 ± 0.292 χ^2/NDF : 5923.4/31

All: -65.558 ± 0.212 χ^2/NDF : 9457.6/61

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.963 ± 0.392 $\chi^2/\text{NDF}: 535.6/22$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 8.563 ± 0.388 $\chi^2/\text{NDF}: 472.8/25$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

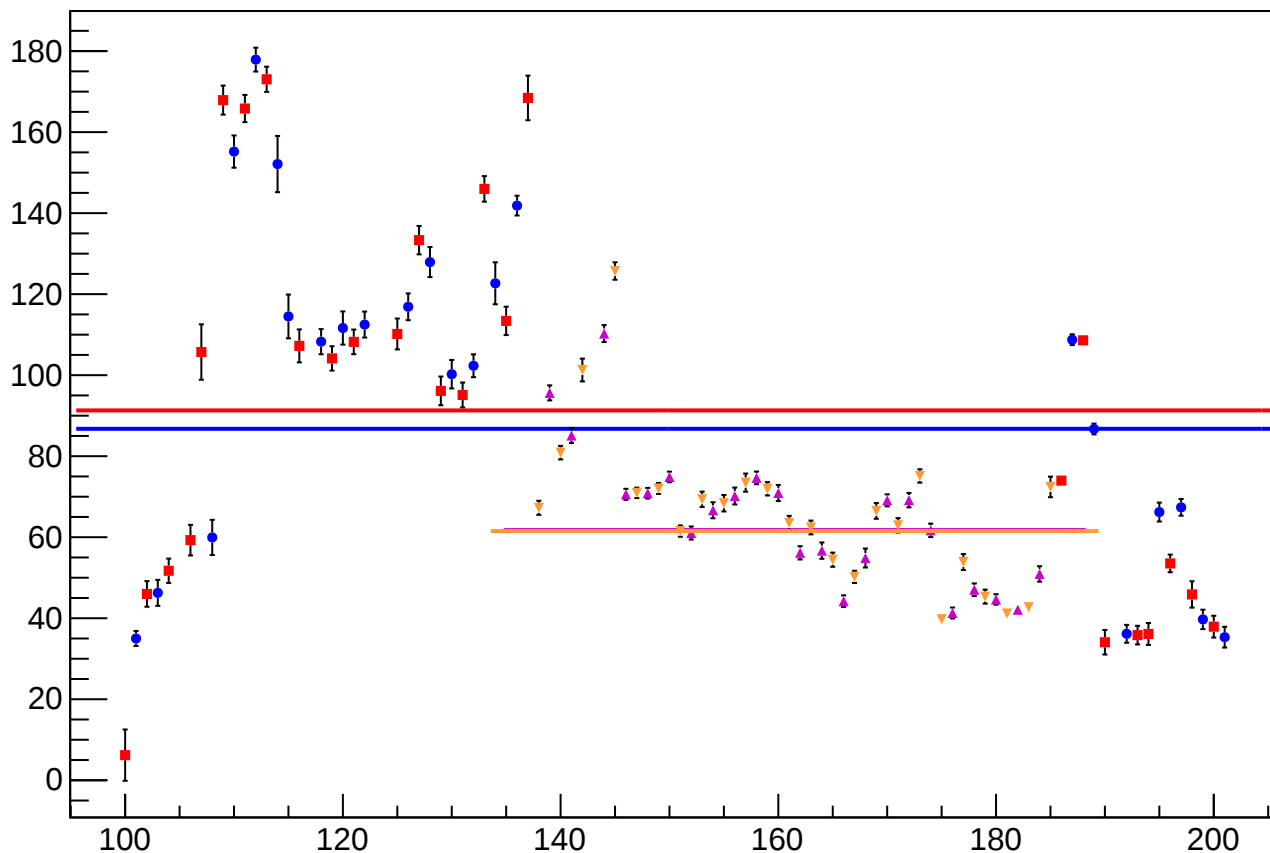
Right: 7.772 ± 0.276 $\chi^2/\text{NDF}: 1016.8/48$

In: 2.876 ± 0.214 $\chi^2/\text{NDF}: 1152.9/45$

Out: 3.391 ± 0.212 $\chi^2/\text{NDF}: 1252.3/49$

All: 3.136 ± 0.150 $\chi^2/\text{NDF}: 2408.1/95$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 86.766 $\pm$ 0.528 χ^2 /NDF: 5055.3/22

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF: 2606.0/23

Right Out: 91.305 $\pm$ 0.426 χ^2 /NDF: 6250.1/25

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

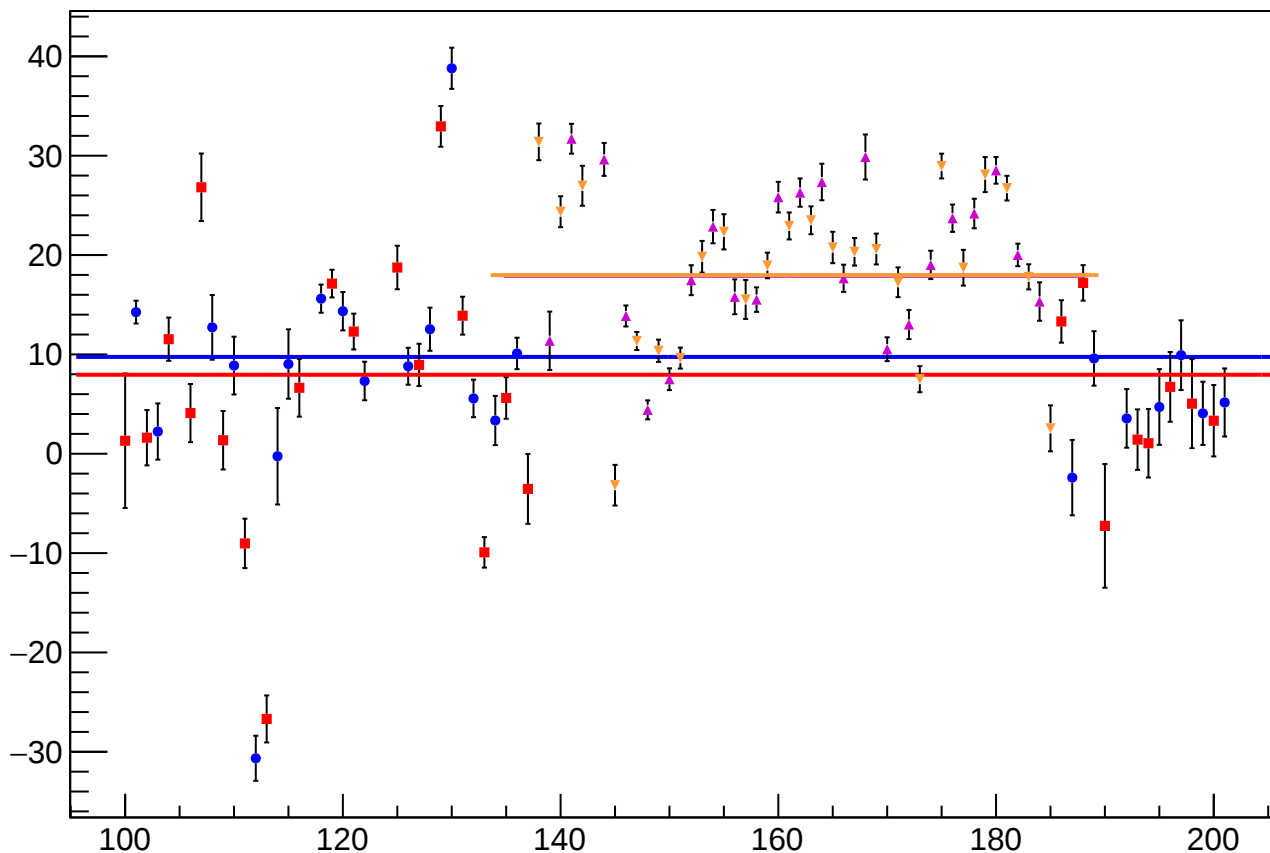
Right: 89.513 $\pm$ 0.332 χ^2 /NDF: 11350.1/48

In: 68.788 $\pm$ 0.280 χ^2 /NDF: 9087.0/45

Out: 72.778 $\pm$ 0.262 χ^2 /NDF: 11895.2/49

All: 70.913 $\pm$ 0.191 χ^2 /NDF: 21090.6/95

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.746 ± 0.462 $\chi^2/\text{NDF}: 601.3/22$

Left Out: 17.980 ± 0.291 $\chi^2/\text{NDF}: 674.4/23$

Right Out: 7.951 ± 0.466 $\chi^2/\text{NDF}: 737.2/25$

Left In: 17.916 ± 0.292 $\chi^2/\text{NDF}: 726.5/22$

Left: 17.948 ± 0.206 $\chi^2/\text{NDF}: 1400.9/46$

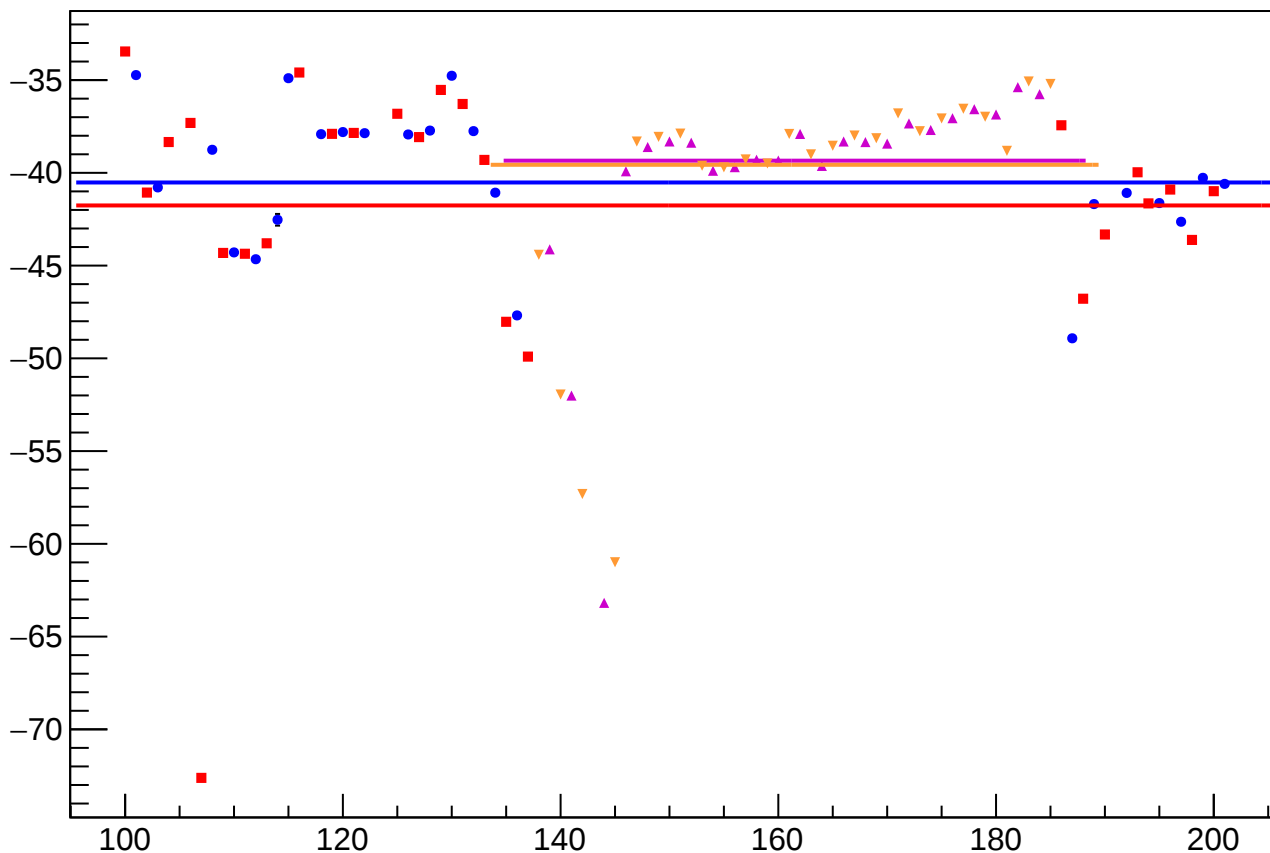
Right: 8.856 ± 0.328 $\chi^2/\text{NDF}: 1346.0/48$

In: 15.582 ± 0.247 $\chi^2/\text{NDF}: 1551.0/45$

Out: 15.171 ± 0.247 $\chi^2/\text{NDF}: 1744.5/49$

All: 15.376 ± 0.175 $\chi^2/\text{NDF}: 3296.9/95$

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.519 ± 0.023 $\chi^2/\text{NDF}: 27331.7/22$

Left Out: -39.566 ± 0.014 $\chi^2/\text{NDF}: 141198.7/23$

Right Out: -41.758 ± 0.023 $\chi^2/\text{NDF}: 66232.5/25$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.454 ± 0.010 $\chi^2/\text{NDF}: 257946.5/46$

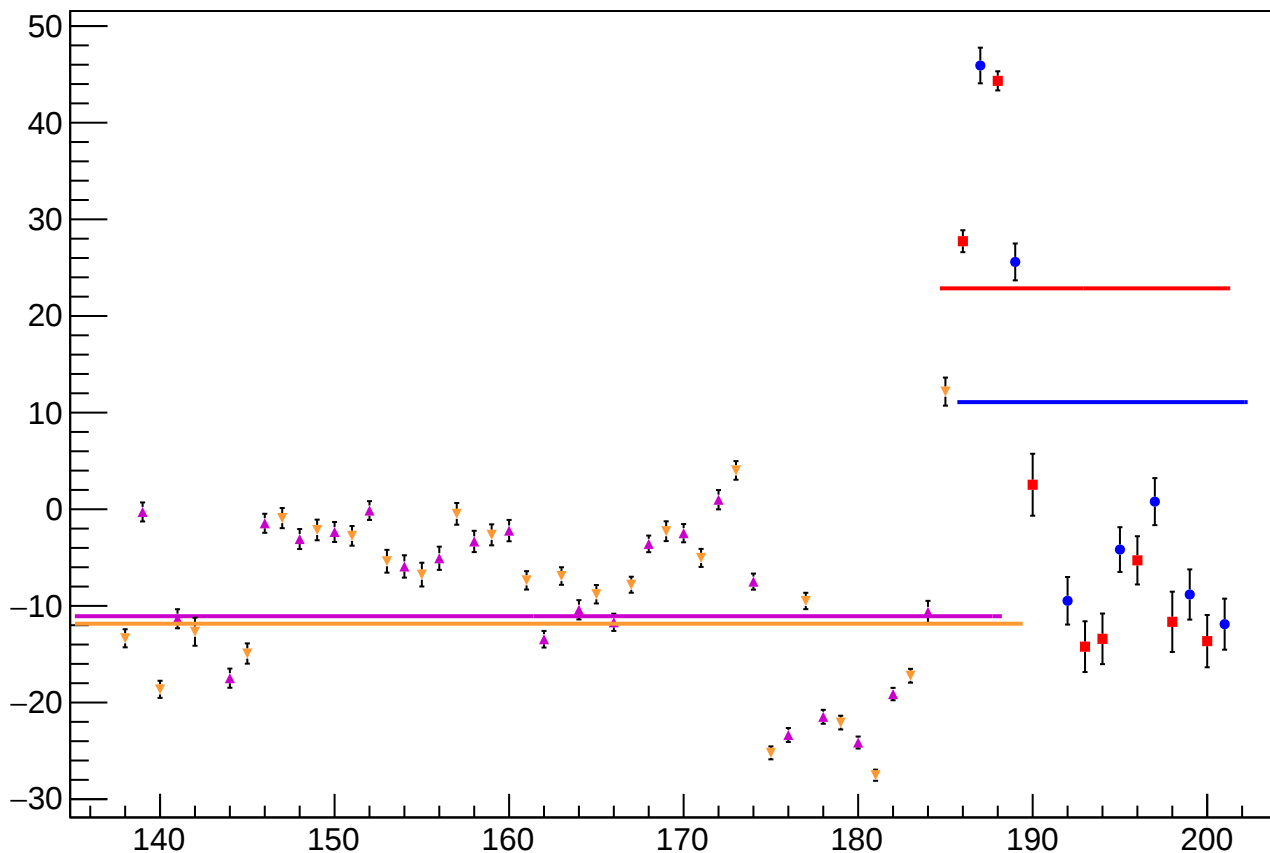
Right: -41.146 ± 0.017 $\chi^2/\text{NDF}: 94970.1/48$

In: -39.639 ± 0.012 $\chi^2/\text{NDF}: 145822.2/45$

Out: -40.134 ± 0.012 $\chi^2/\text{NDF}: 214033.0/49$

All: -39.885 ± 0.008 $\chi^2/\text{NDF}: 360737.4/95$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.086 ± 0.851 χ^2/NDF : 680.0/6

Left Out: -11.842 ± 0.187 χ^2/NDF : 2739.8/23

Right Out: 22.858 ± 0.622 χ^2/NDF : 1351.7/7

Left In: -11.067 ± 0.188 χ^2/NDF : 2104.8/22

Left: -11.457 ± 0.133 χ^2/NDF : 4853.2/46

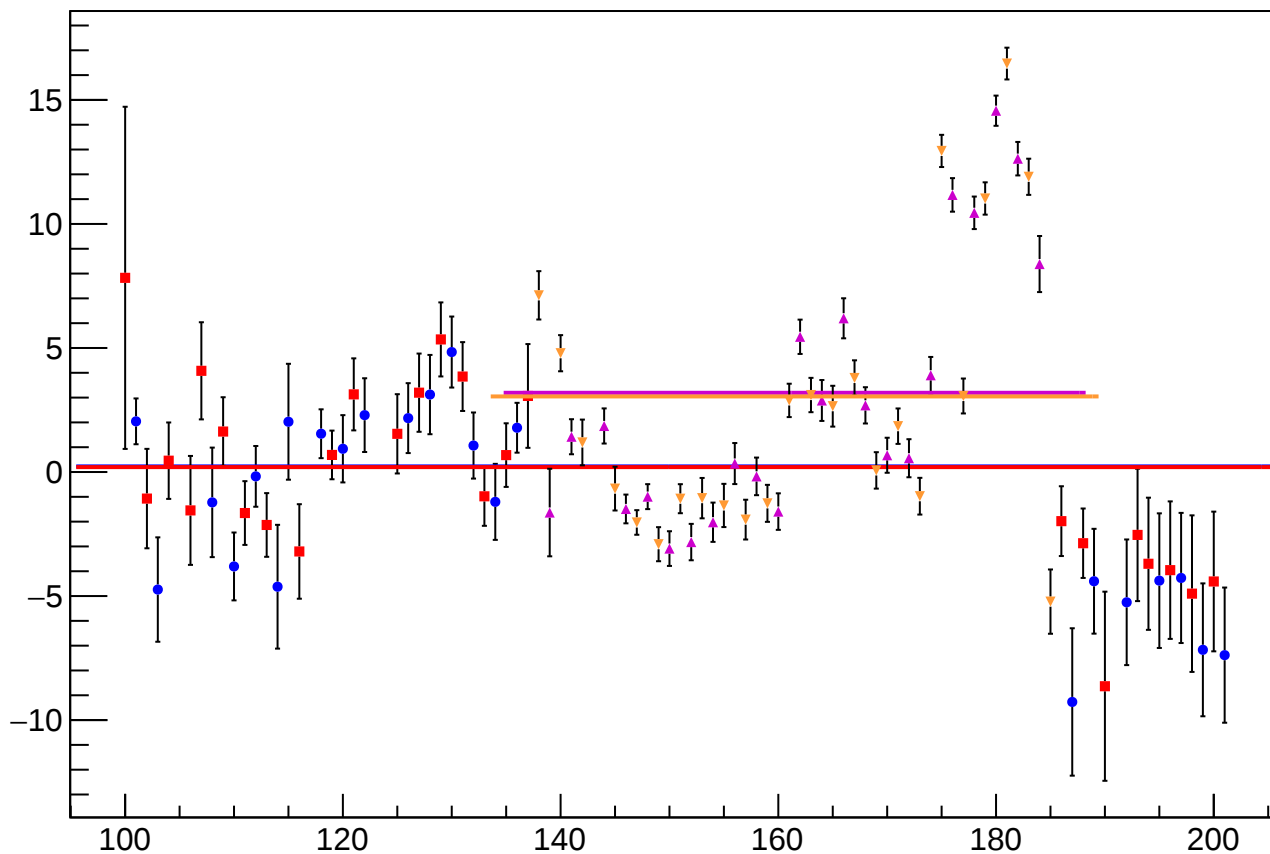
Right: 18.758 ± 0.502 χ^2/NDF : 2156.5/14

In: -10.036 ± 0.184 χ^2/NDF : 3431.2/29

Out: -8.971 ± 0.179 χ^2/NDF : 6946.6/31

All: -9.490 ± 0.128 χ^2/NDF : 10395.0/61

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.226 ± 0.323 χ^2/NDF : 87.2/22

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: 0.198 ± 0.321 χ^2/NDF : 69.6/25

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

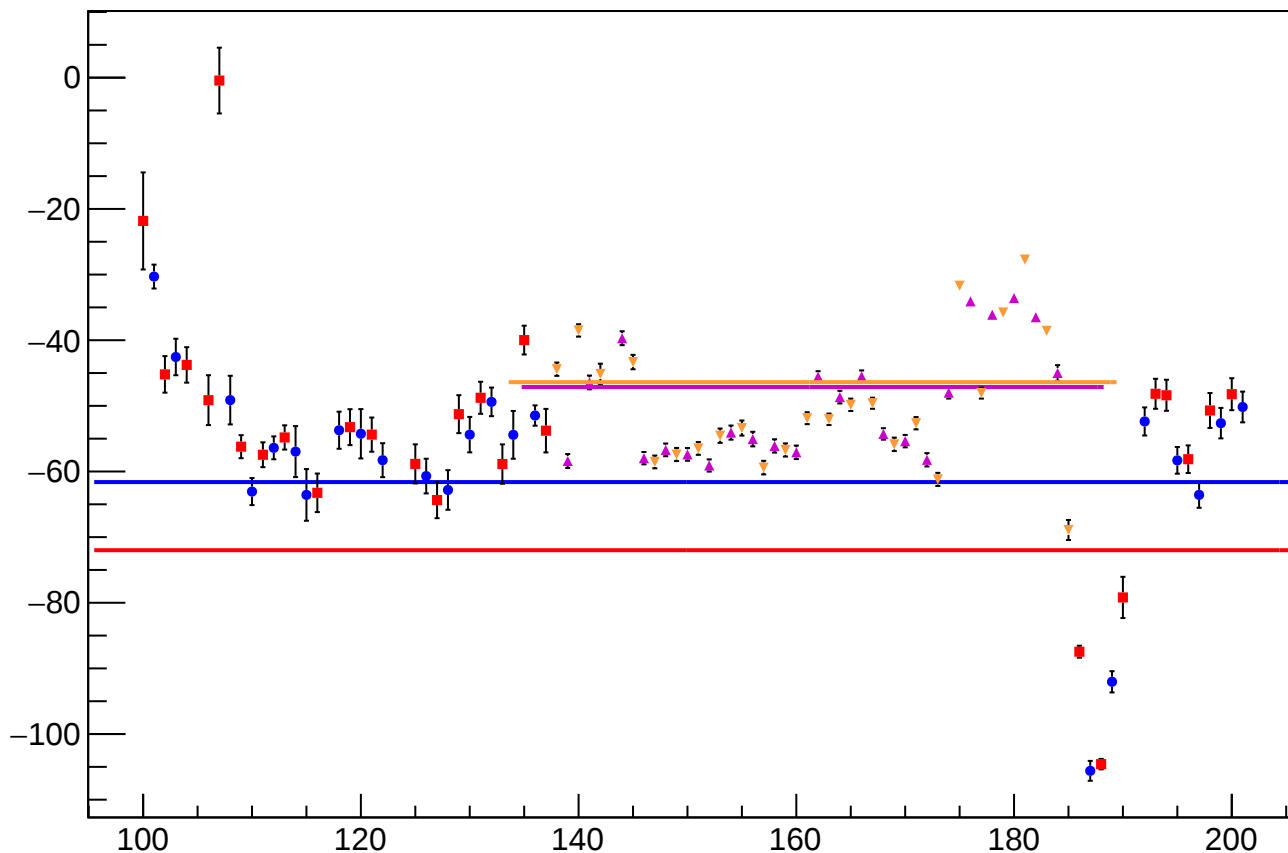
Right: 0.212 ± 0.228 χ^2/NDF : 156.9/48

In: 2.668 ± 0.136 χ^2/NDF : 1451.7/45

Out: 2.548 ± 0.134 χ^2/NDF : 1591.9/49

All: 2.607 ± 0.096 χ^2/NDF : 3044.0/95

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -61.613 ± 0.469 $\chi^2/\text{NDF}: 1722.4/22$

Left Out: -46.392 ± 0.187 $\chi^2/\text{NDF}: 3286.7/23$

Right Out: -71.992 ± 0.395 $\chi^2/\text{NDF}: 3620.3/25$

Left In: -47.128 ± 0.187 $\chi^2/\text{NDF}: 2516.0/22$

Left: -46.759 ± 0.132 $\chi^2/\text{NDF}: 5810.5/46$

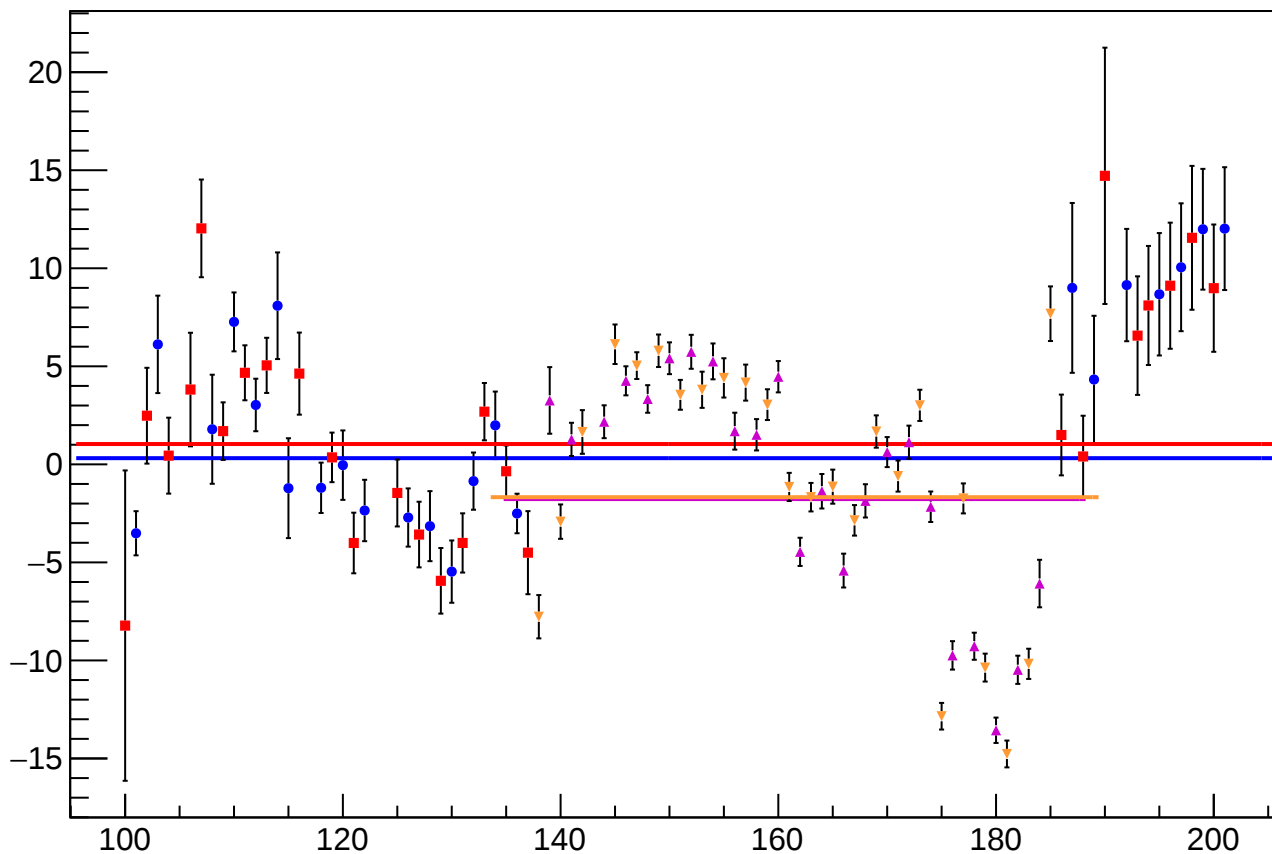
Right: -67.687 ± 0.302 $\chi^2/\text{NDF}: 5629.1/48$

In: -49.117 ± 0.174 $\chi^2/\text{NDF}: 5060.7/45$

Out: -51.063 ± 0.169 $\chi^2/\text{NDF}: 10342.2/49$

All: -50.119 ± 0.121 $\chi^2/\text{NDF}: 15467.5/95$

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.316 ± 0.369 $\chi^2/\text{NDF}: 145.8/22$

Left Out: -1.675 ± 0.167 $\chi^2/\text{NDF}: 1483.8/23$

Right Out: 1.037 ± 0.372 $\chi^2/\text{NDF}: 132.5/25$

Left In: -1.771 ± 0.169 $\chi^2/\text{NDF}: 1251.3/22$

Left: -1.723 ± 0.119 $\chi^2/\text{NDF}: 2735.2/46$

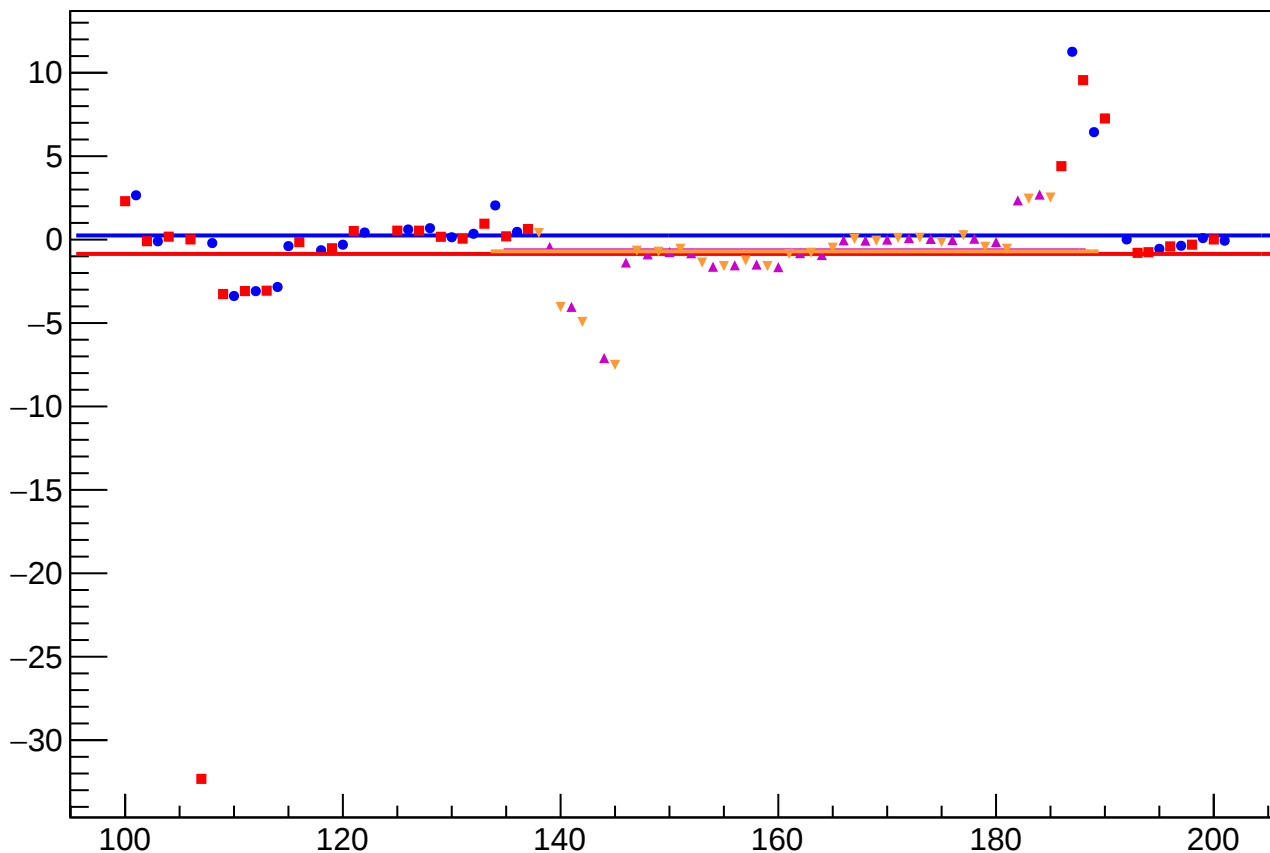
Right: 0.673 ± 0.262 $\chi^2/\text{NDF}: 280.1/48$

In: -1.410 ± 0.154 $\chi^2/\text{NDF}: 1423.4/45$

Out: -1.221 ± 0.152 $\chi^2/\text{NDF}: 1660.5/49$

All: -1.315 ± 0.108 $\chi^2/\text{NDF}: 3084.6/95$

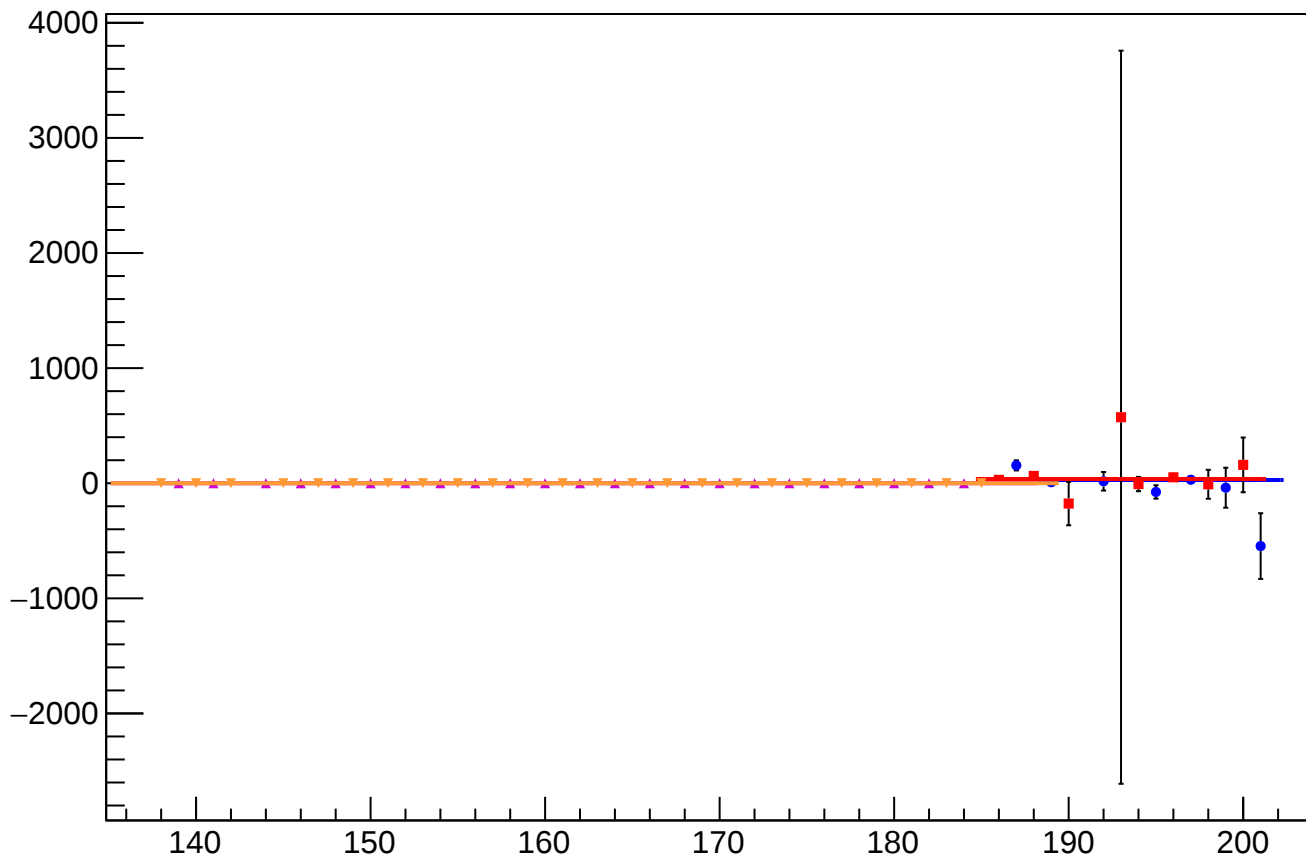
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.249 ± 0.019 $\chi^2/\text{NDF}: 9245.1/22$
 Left Out: -0.702 ± 0.008 $\chi^2/\text{NDF}: 53834.9/23$
 Right Out: -0.858 ± 0.019 $\chi^2/\text{NDF}: 92388.3/25$
 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: -0.306 ± 0.013 $\chi^2/\text{NDF}: 103346.4/48$
 In: -0.518 ± 0.007 $\chi^2/\text{NDF}: 55324.8/45$
 Out: -0.724 ± 0.007 $\chi^2/\text{NDF}: 146281.8/49$
 All: -0.621 ± 0.005 $\chi^2/\text{NDF}: 202026.4/95$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 28.147 $\pm$ 18.781 χ^2 /NDF: 16.2/6

Left Out: -0.037 $\pm$ 0.018 χ^2 /NDF: 35.4/23

Right Out: 36.946 $\pm$ 9.970 χ^2 /NDF: 4.3/7

Left In: -0.010 $\pm$ 0.018 χ^2 /NDF: 35.1/22

Left: -0.024 $\pm$ 0.013 χ^2 /NDF: 71.7/46

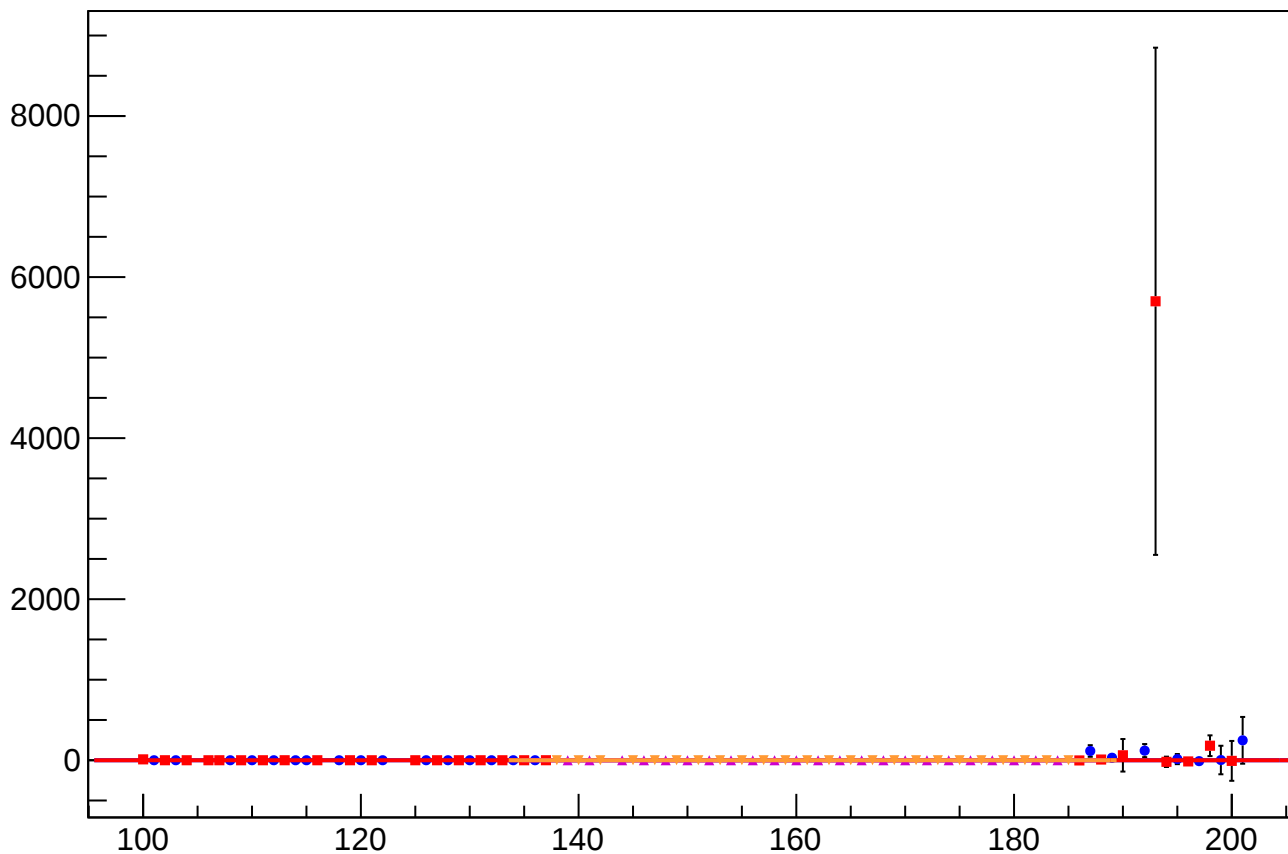
Right: 35.011 $\pm$ 8.806 χ^2 /NDF: 20.6/14

In: -0.010 $\pm$ 0.018 χ^2 /NDF: 53.6/29

Out: -0.037 $\pm$ 0.018 χ^2 /NDF: 53.5/31

All: -0.024 $\pm$ 0.013 χ^2 /NDF: 108.2/61

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 χ^2/NDF : 18.5/22

Left Out: -0.073 ± 0.014 χ^2/NDF : 27.8/23

Right Out: -0.088 ± 0.025 χ^2/NDF : 18.5/25

Left In: -0.064 ± 0.014 χ^2/NDF : 41.1/22

Left: -0.068 ± 0.010 χ^2/NDF : 69.1/46

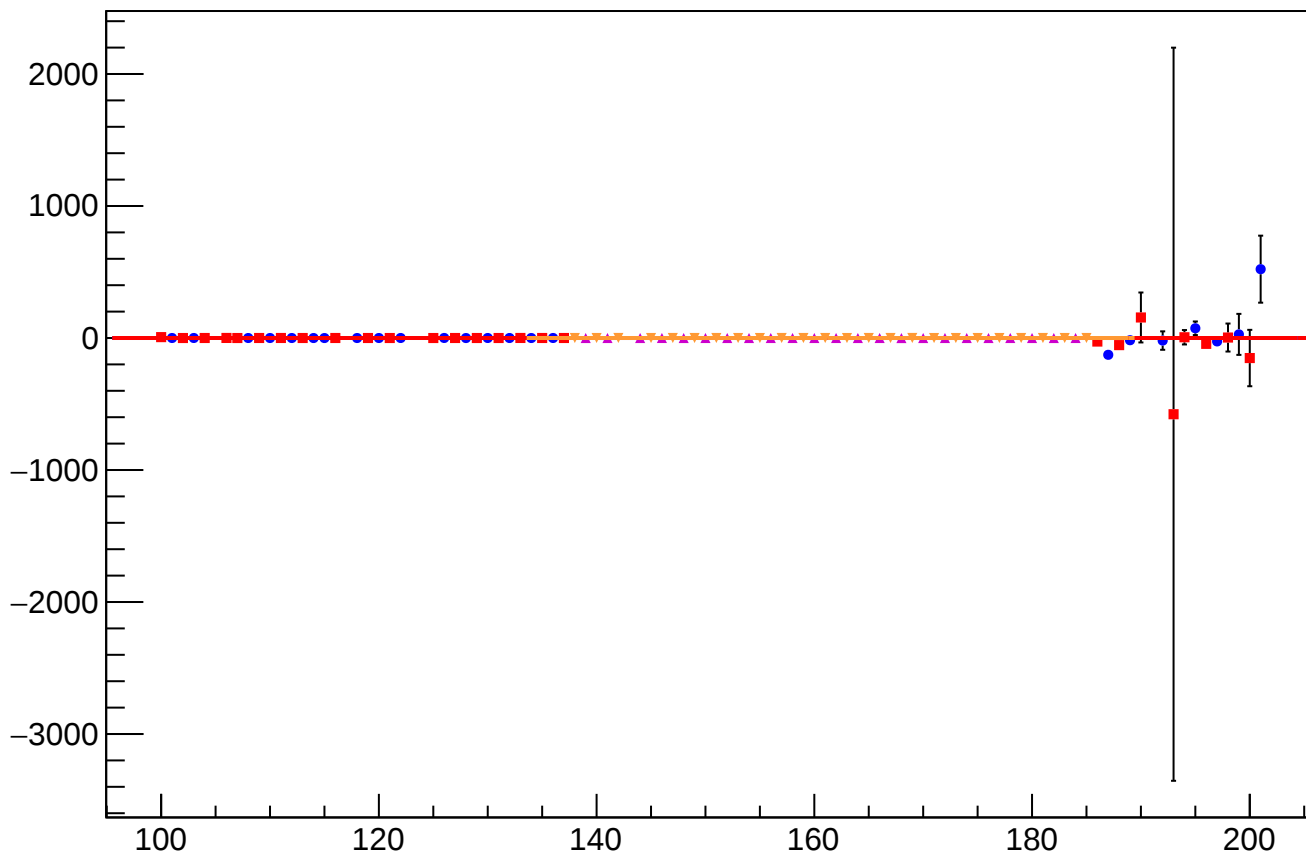
Right: -0.049 ± 0.017 χ^2/NDF : 41.8/48

In: -0.050 ± 0.012 χ^2/NDF : 63.0/45

Out: -0.076 ± 0.012 χ^2/NDF : 46.6/49

All: -0.063 ± 0.009 χ^2/NDF : 111.9/95

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 29.0/22

Left Out: 0.035+/-0.018 χ^2/NDF :32.2/23

Right Out: 0.031+/-0.045 χ^2/NDF : 29.8/25

Left In: -0.009+/-0.018 χ^2/NDF :36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.0/46

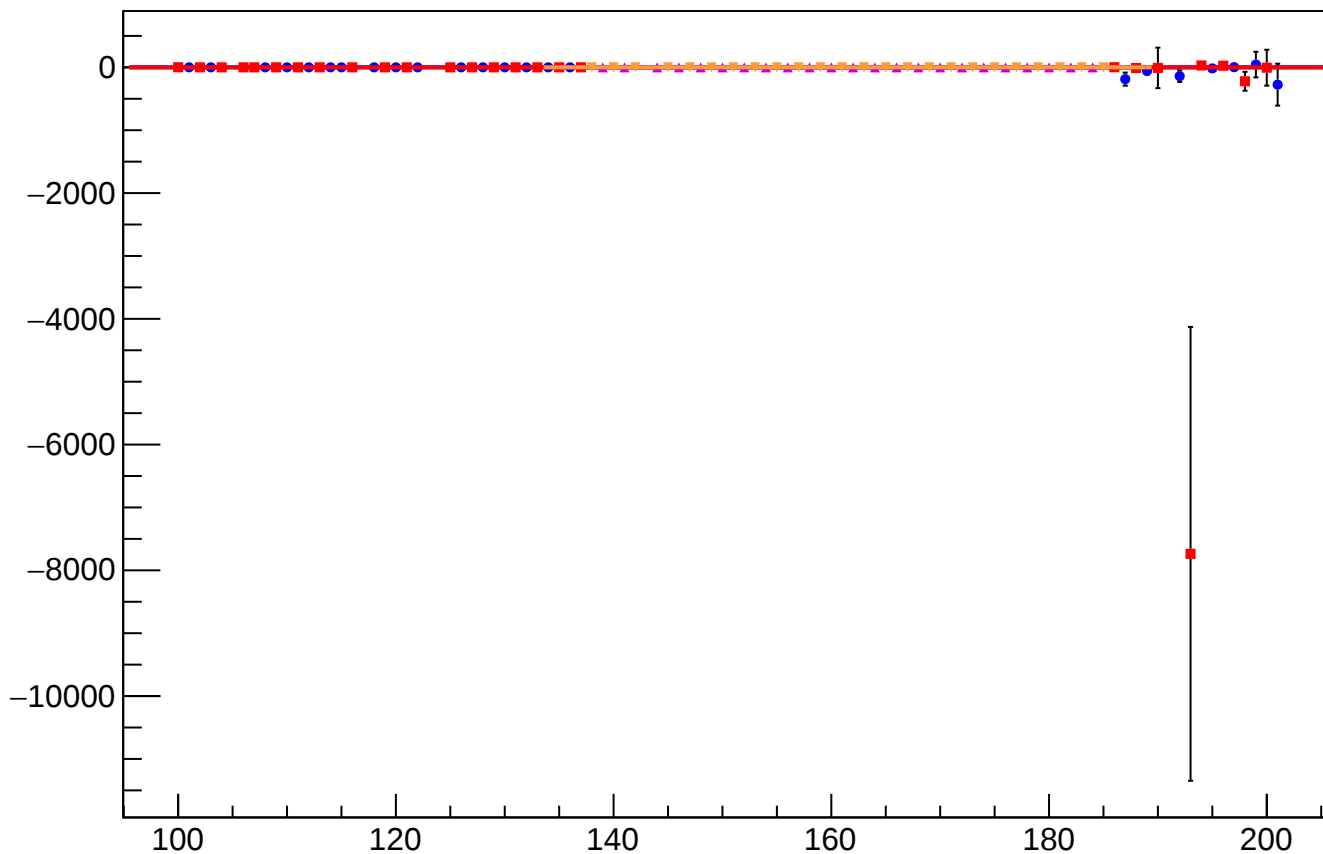
Right: 0.023+/-0.031 χ^2/NDF : 58.8/48

In: -0.005+/-0.017 χ^2/NDF :66.1/45

Out: 0.035+/-0.017 χ^2/NDF :62.0/49

All: 0.015+/-0.012 χ^2/NDF : 130.9/95

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 19.3/22

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF: 27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 15.3/25

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

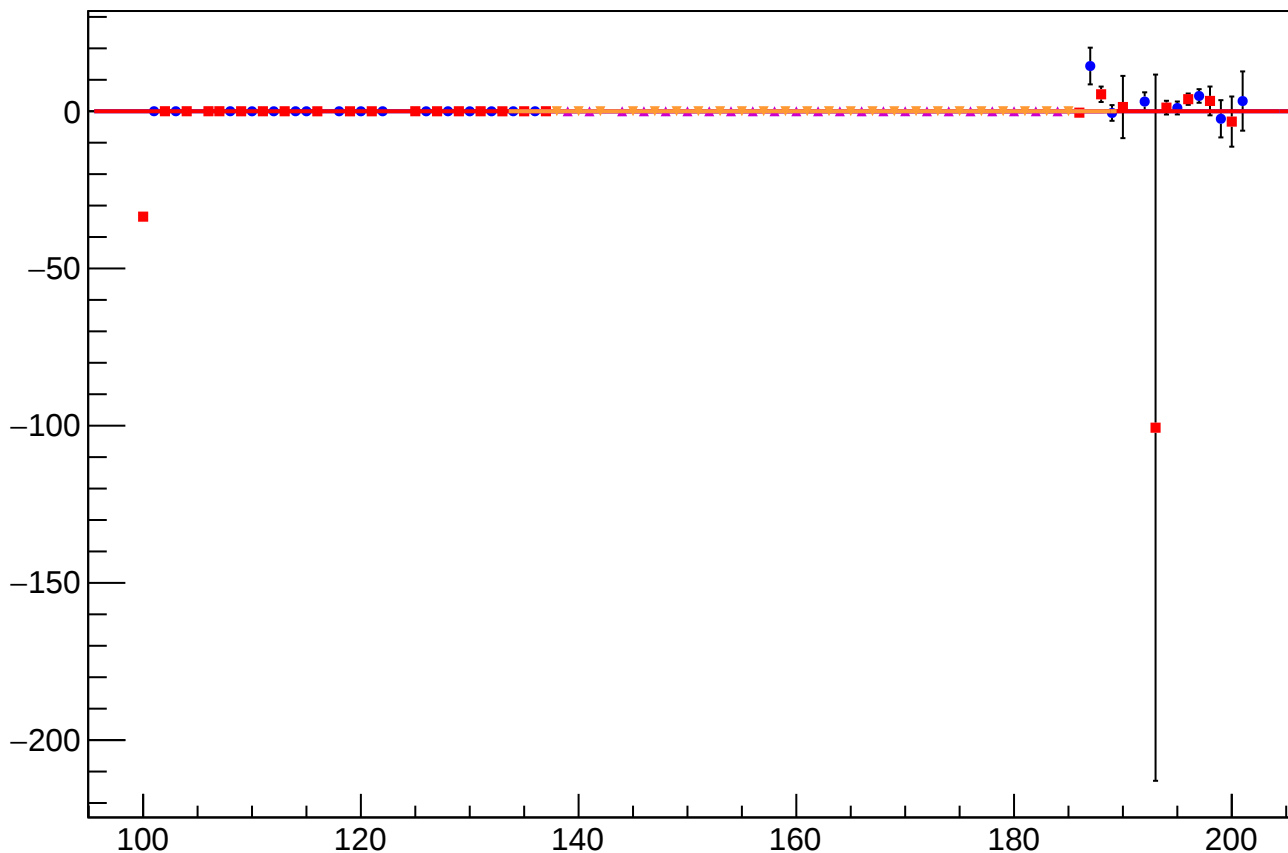
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 40.6/48

In: 0.053 $\pm$ 0.014 χ^2 /NDF: 67.9/45

Out: 0.091 $\pm$ 0.014 χ^2 /NDF: 43.4/49

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 114.8/95

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 $\pm$ 0.001 χ^2 /NDF: 34.4/22

Left Out: 0.000 $\pm$ 0.001 χ^2 /NDF:23.6/23

Right Out: -0.006 $\pm$ 0.001 χ^2 /NDF: 26520.2/25

Left In: 0.000 $\pm$ 0.001 χ^2 /NDF:22.3/22

Left: 0.000 $\pm$ 0.001 χ^2 /NDF: 45.9/46

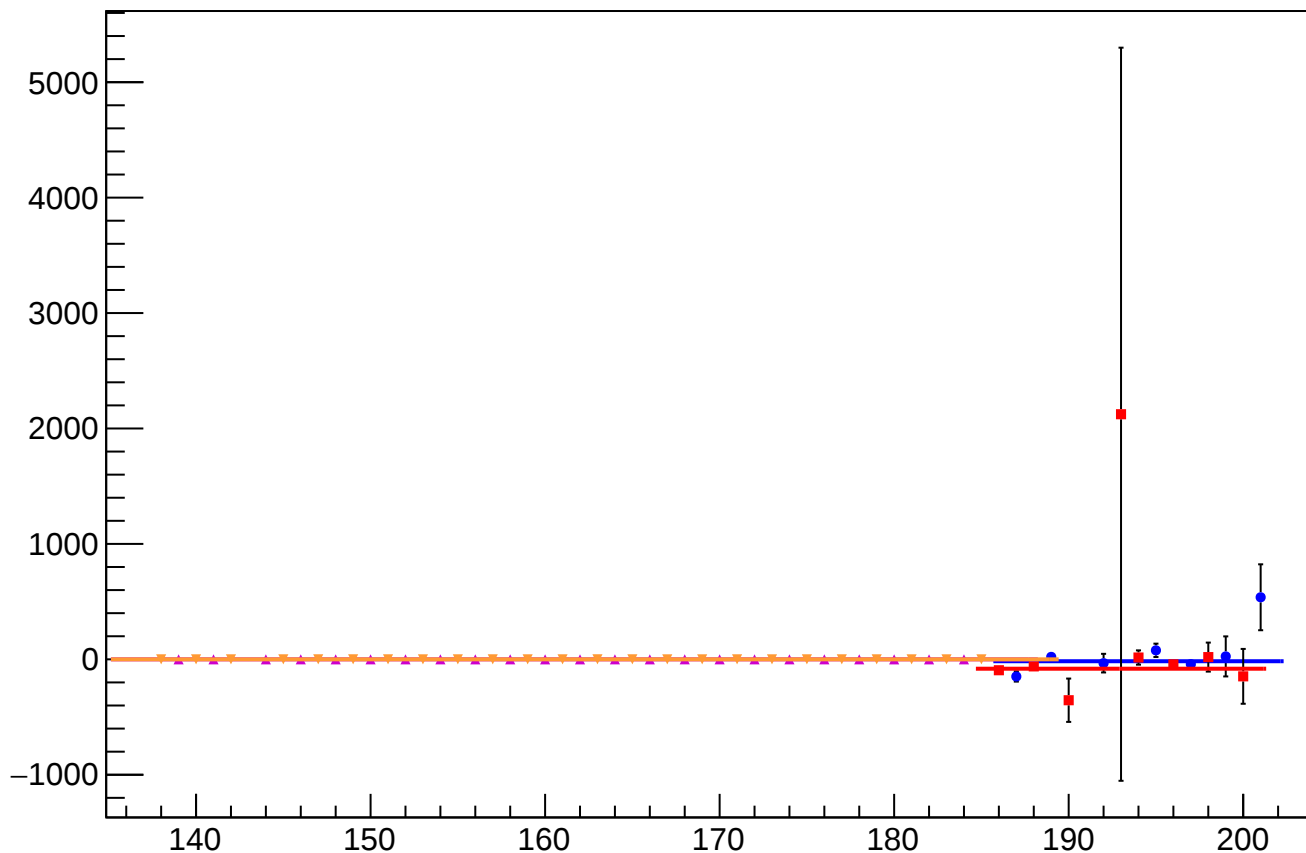
Right: -0.006 $\pm$ 0.001 χ^2 /NDF: 26554.6/48

In: -0.001 $\pm$ 0.001 χ^2 /NDF:68.4/45

Out: -0.001 $\pm$ 0.001 χ^2 /NDF:26558.9/49

All: -0.001 $\pm$ 0.000 χ^2 /NDF: 26627.3/95

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -16.400 ± 18.771 χ^2/NDF : 17.6/6

Left Out: -0.052 ± 0.018 χ^2/NDF : 37.3/23

Right Out: -81.254 ± 9.973 χ^2/NDF : 8.7/7

Left In: -0.009 ± 0.018 χ^2/NDF : 35.1/22

Left: -0.031 ± 0.013 χ^2/NDF : 75.3/46

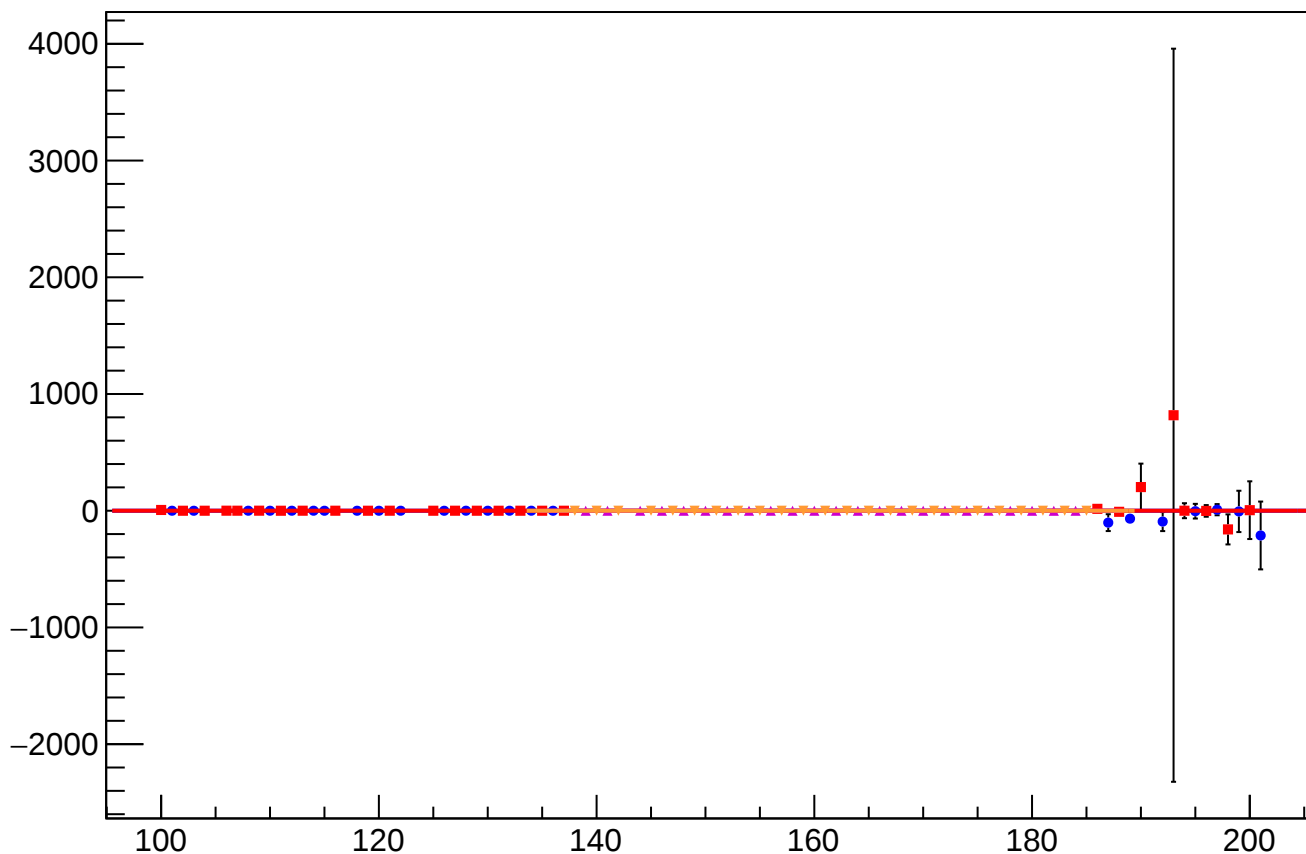
Right: -66.977 ± 8.807 χ^2/NDF : 35.7/14

In: -0.009 ± 0.018 χ^2/NDF : 53.5/29

Out: -0.052 ± 0.018 χ^2/NDF : 112.4/31

All: -0.031 ± 0.013 χ^2/NDF : 168.8/61

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.023 χ^2/NDF : 33.6/22

Left Out: -0.011+/-0.014 χ^2/NDF : 29.6/23

Right Out: 0.037+/-0.025 χ^2/NDF : 32.6/25

Left In: 0.005+/-0.014 χ^2/NDF : 49.6/22

Left: -0.003+/-0.010 χ^2/NDF : 79.7/46

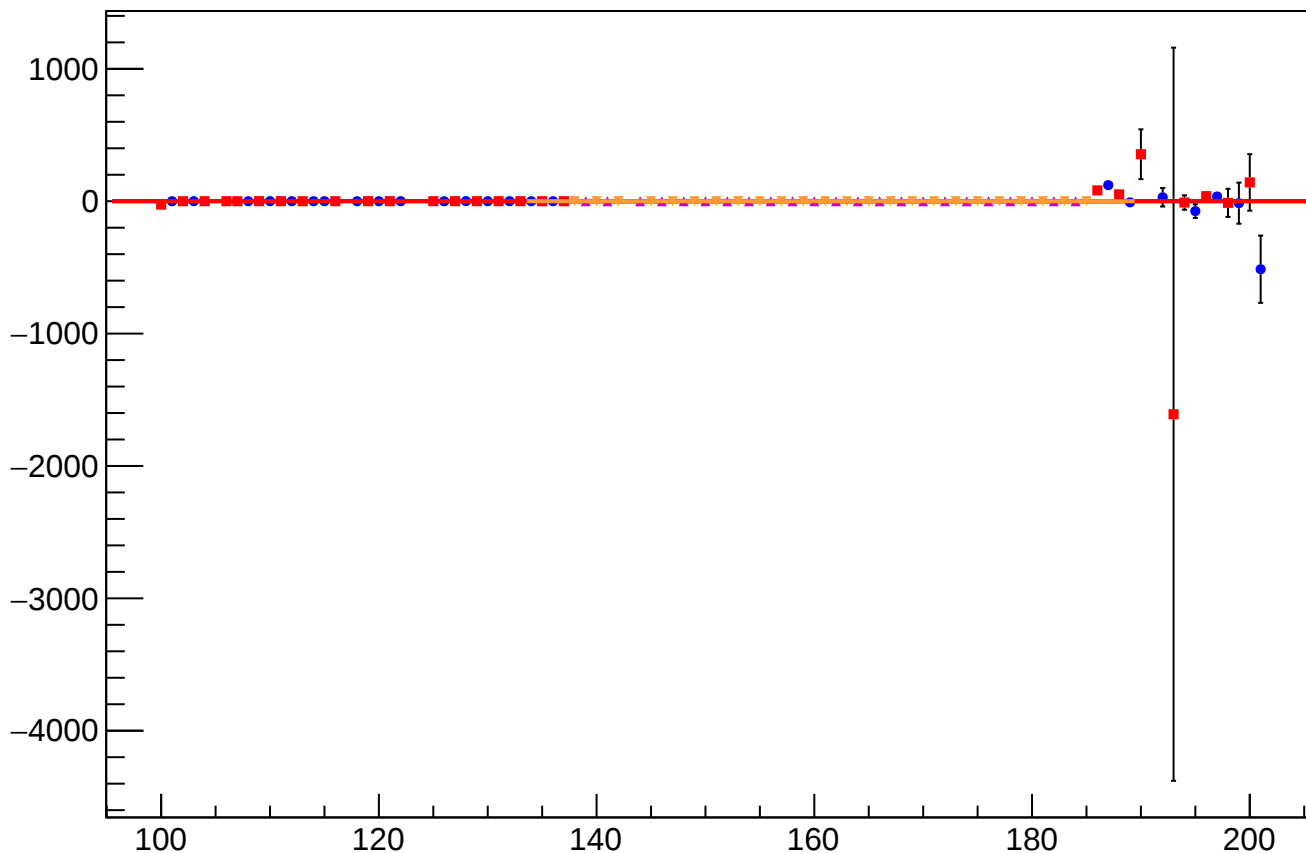
Right: 0.021+/-0.017 χ^2/NDF : 66.9/48

In: 0.006+/-0.012 χ^2/NDF : 83.1/45

Out: 0.001+/-0.012 χ^2/NDF : 64.9/49

All: 0.003+/-0.009 χ^2/NDF : 148.1/95

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 48.6/22

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 107.5/25

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

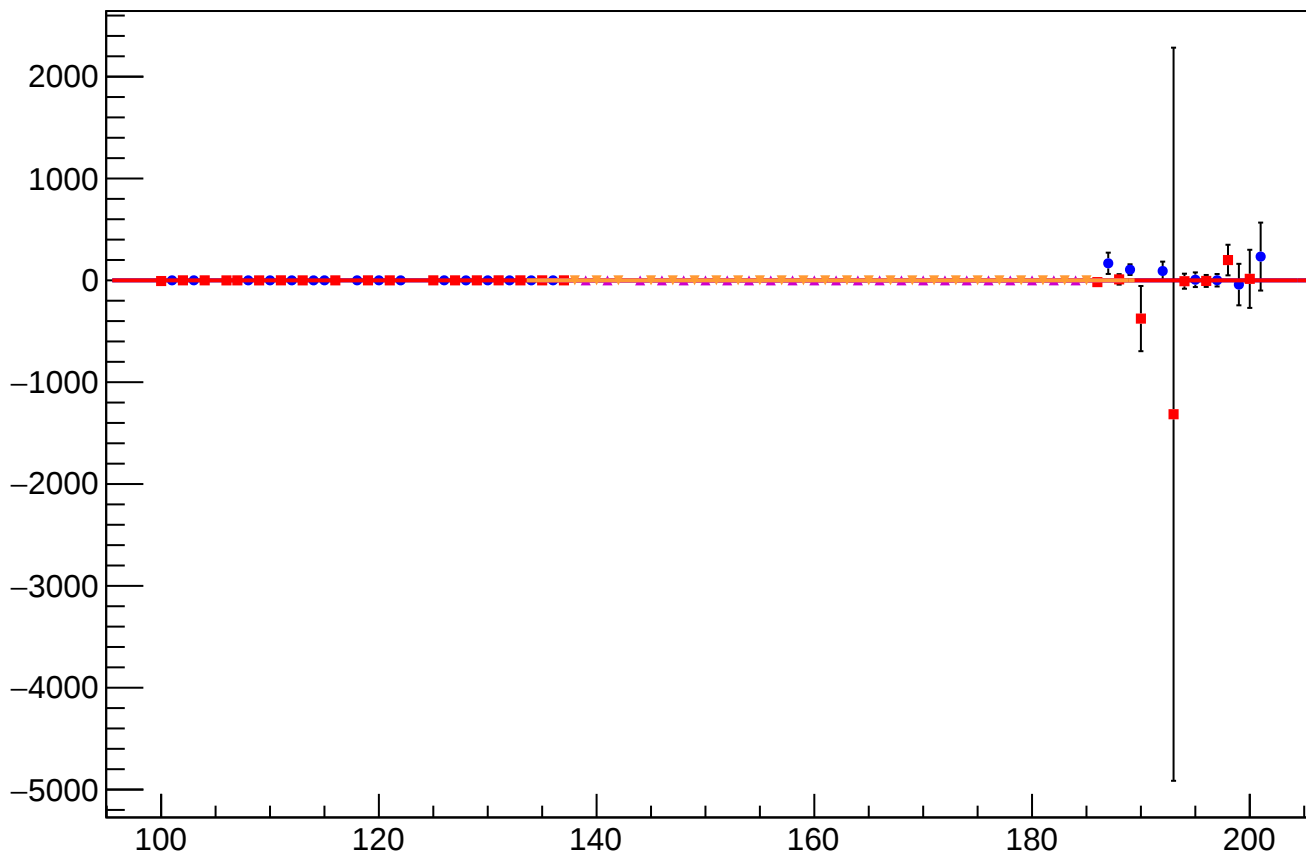
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 156.5/48

In: 0.040 $\pm$ 0.017 χ^2 /NDF:93.1/45

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:152.4/49

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 246.9/95

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 32.8/22

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 30.2/25

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

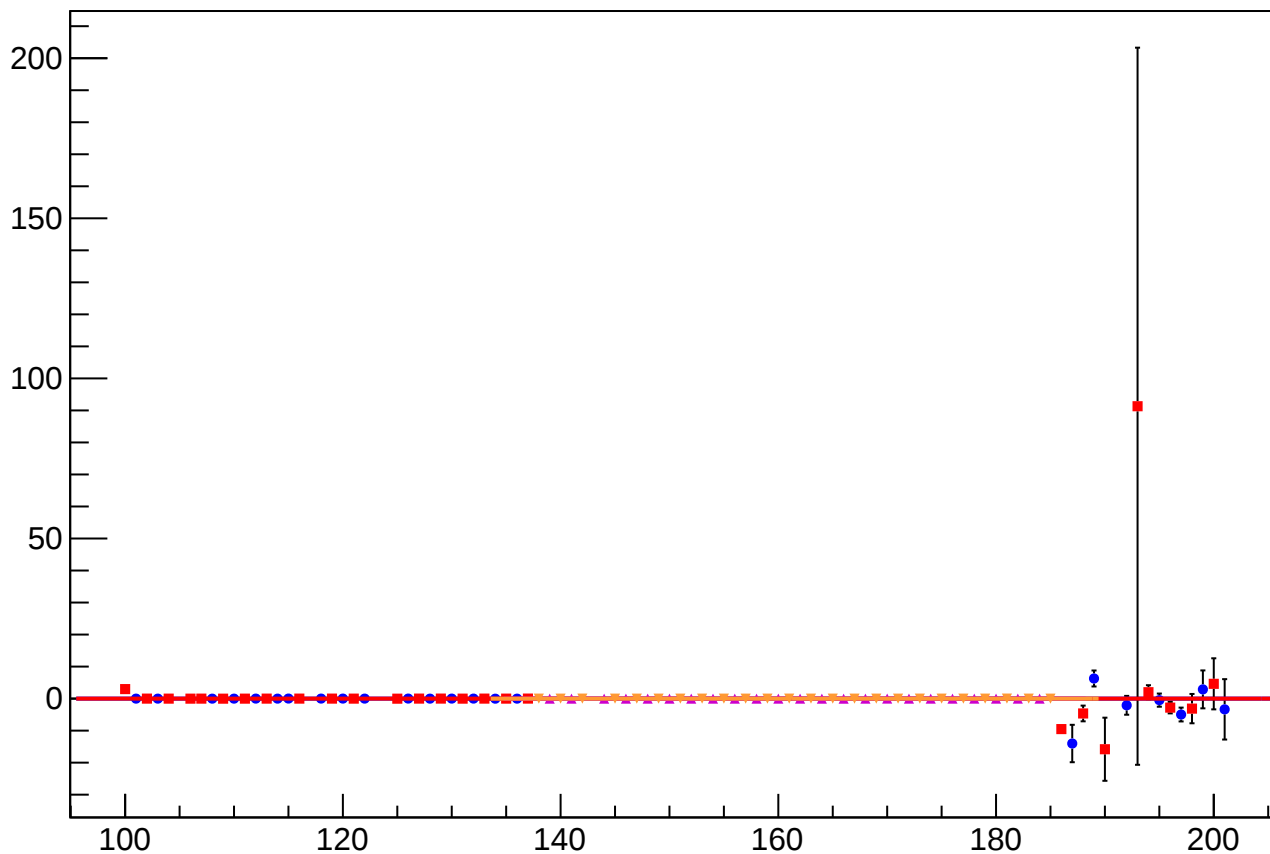
Right: -0.027 ± 0.020 χ^2/NDF : 63.8/48

In: 0.002 ± 0.014 χ^2/NDF : 83.2/45

Out: 0.005 ± 0.014 χ^2/NDF : 67.8/49

All: 0.004 ± 0.010 χ^2/NDF : 151.0/95

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001 χ^2/NDF : 45.8/22

Left Out: -0.008+/-0.001 χ^2/NDF : 32.0/23

Right Out: -0.006+/-0.001 χ^2/NDF : 213.7/25

Left In: -0.009+/-0.001 χ^2/NDF : 37.2/22

Left: -0.008+/-0.001 χ^2/NDF : 69.4/46

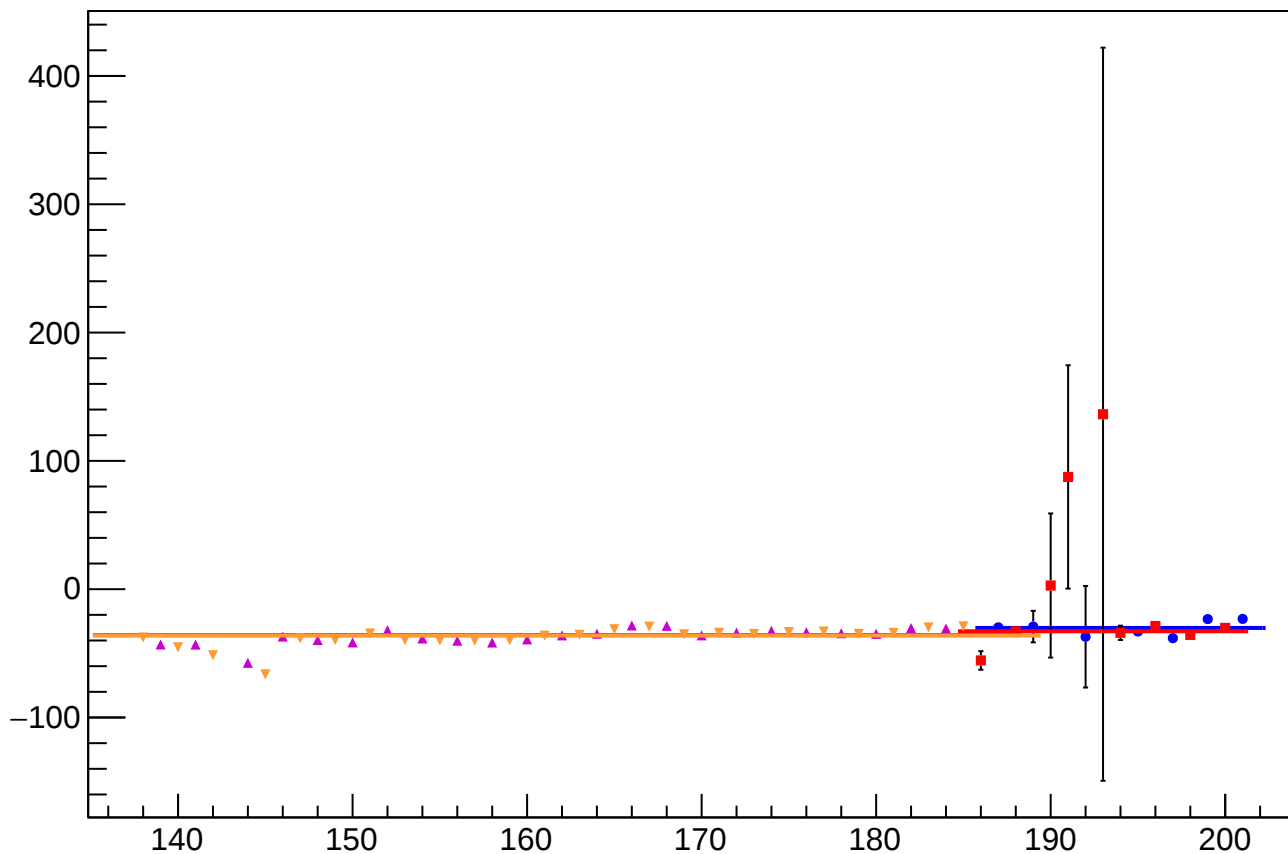
Right: -0.006+/-0.001 χ^2/NDF : 259.5/48

In: -0.008+/-0.001 χ^2/NDF : 85.5/45

Out: -0.008+/-0.001 χ^2/NDF : 247.8/49

All: -0.008+/-0.000 χ^2/NDF : 333.5/95

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.198 ± 1.152 $\chi^2/\text{NDF}: 19.0/6$

Left Out: -36.120 ± 0.192 $\chi^2/\text{NDF}: 1114.9/23$

Right Out: -32.795 ± 0.963 $\chi^2/\text{NDF}: 16.1/8$

Left In: -35.779 ± 0.191 $\chi^2/\text{NDF}: 854.1/22$

Left: -35.949 ± 0.136 $\chi^2/\text{NDF}: 1970.6/46$

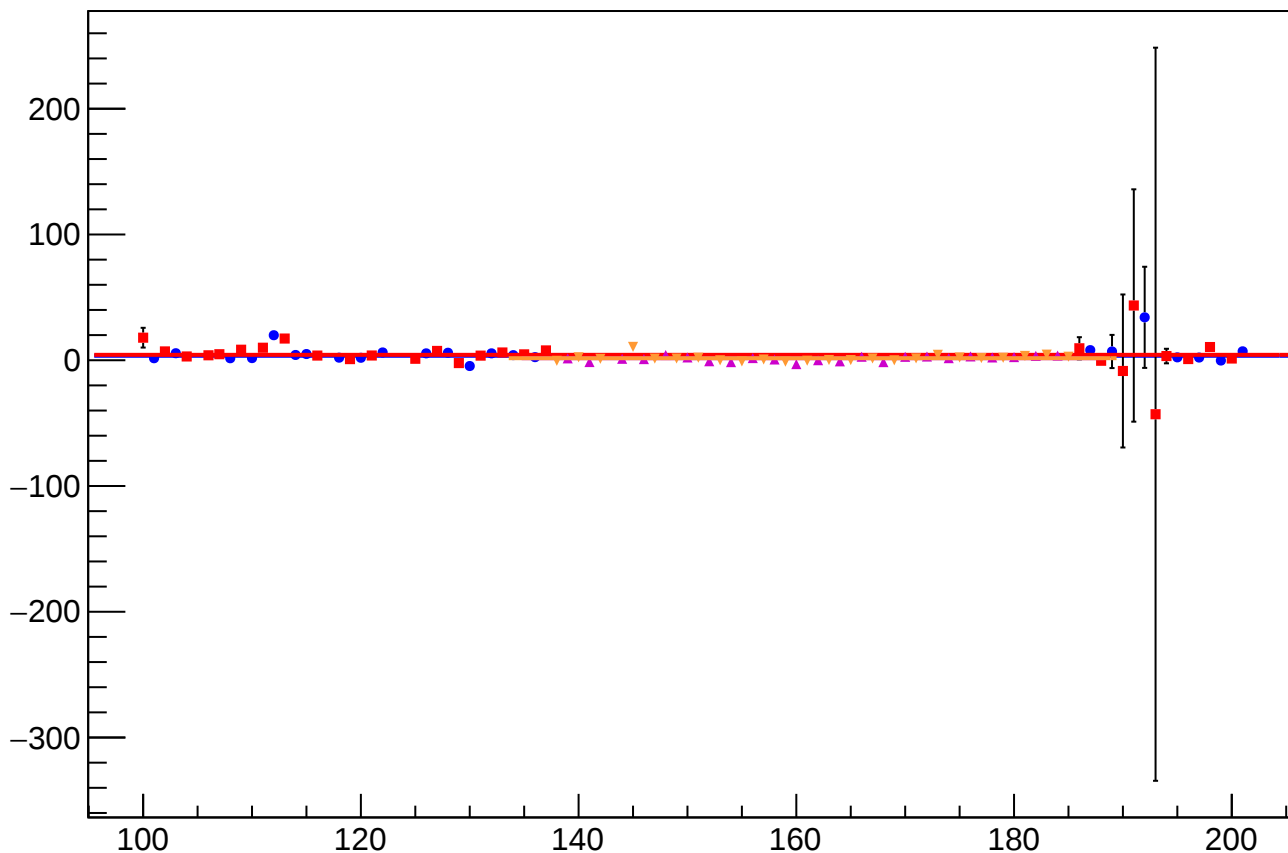
Right: -31.727 ± 0.739 $\chi^2/\text{NDF}: 38.1/15$

In: -35.629 ± 0.189 $\chi^2/\text{NDF}: 896.0/29$

Out: -35.993 ± 0.188 $\chi^2/\text{NDF}: 1142.5/32$

All: -35.812 ± 0.133 $\chi^2/\text{NDF}: 2040.3/62$

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.561 $\pm$ 0.218 χ^2 /NDF: 445.6/22

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF: 166.5/23

Right Out: 4.308 $\pm$ 0.222 χ^2 /NDF: 365.4/26

Left In: 1.641 $\pm$ 0.150 χ^2 /NDF: 163.2/22

Left: 1.638 $\pm$ 0.105 χ^2 /NDF: 329.7/46

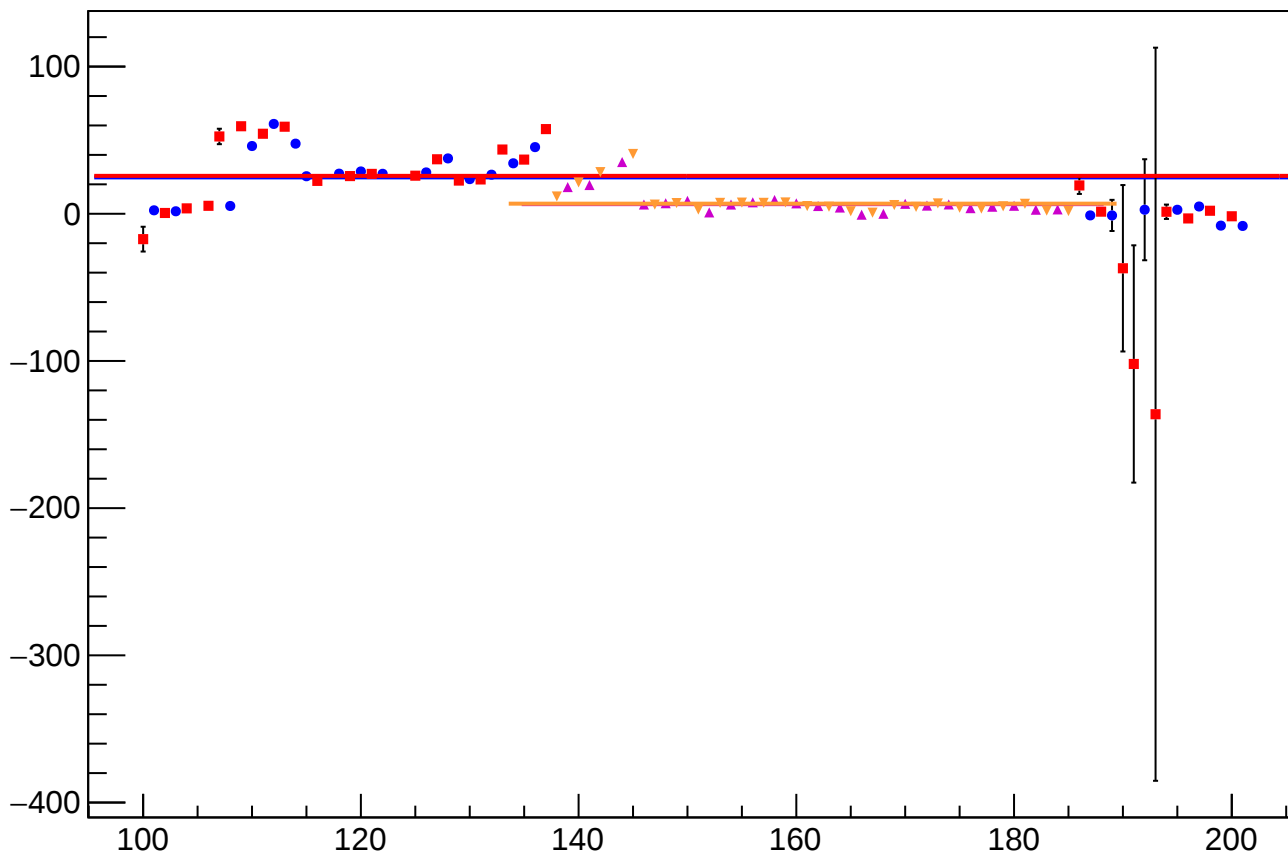
Right: 3.928 $\pm$ 0.155 χ^2 /NDF: 816.8/49

In: 2.255 $\pm$ 0.123 χ^2 /NDF: 661.5/45

Out: 2.456 $\pm$ 0.123 χ^2 /NDF: 632.5/50

All: 2.356 $\pm$ 0.087 χ^2 /NDF: 1295.4/96

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 24.714 $\pm$ 0.386 χ^2 /NDF: 2333.0/22

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 25.757 $\pm$ 0.374 χ^2 /NDF: 2920.5/26

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

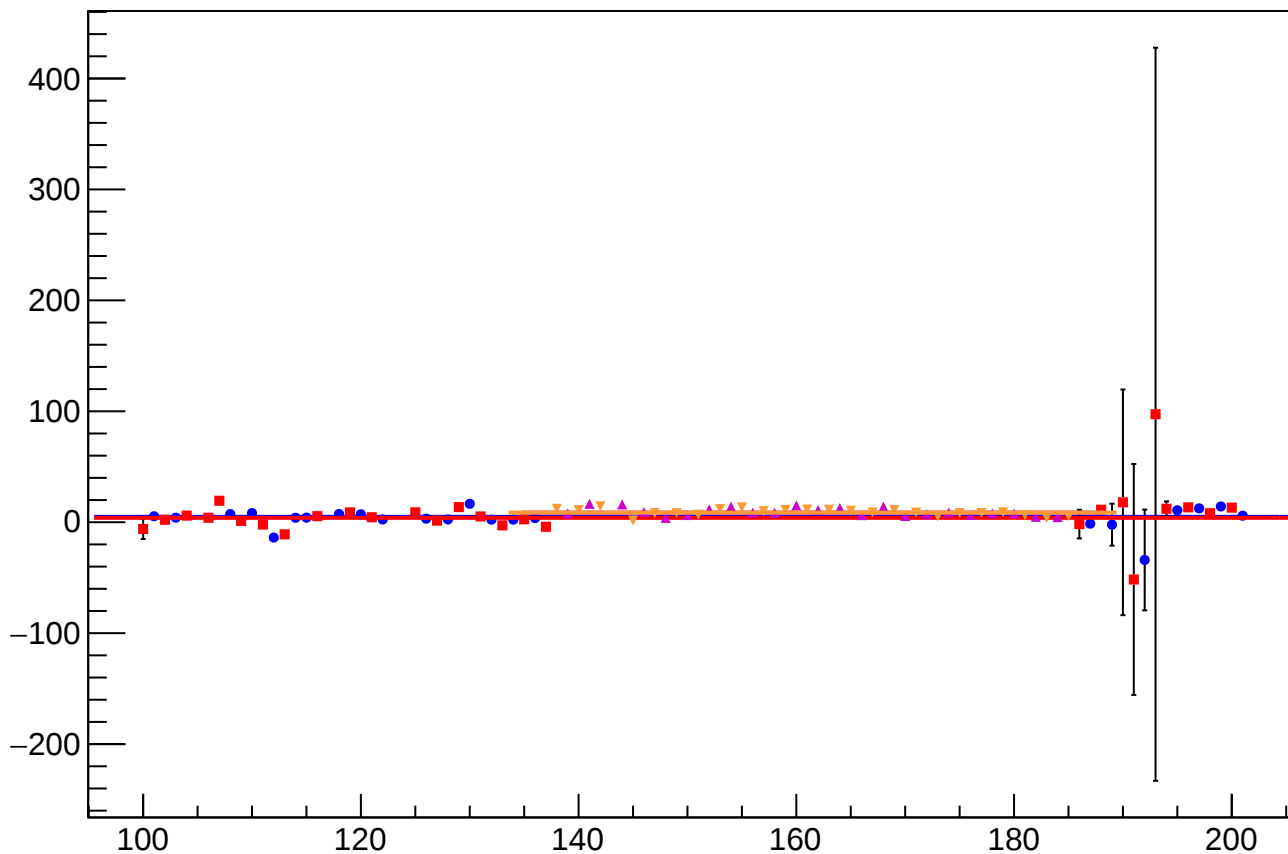
Right: 25.252 $\pm$ 0.268 χ^2 /NDF: 5257.3/49

In: 10.096 $\pm$ 0.171 χ^2 /NDF:5143.1/45

Out: 10.791 $\pm$ 0.170 χ^2 /NDF:6240.7/50

All: 10.444 $\pm$ 0.121 χ^2 /NDF: 11392.2/96

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.841 $\pm$ 0.252 χ^2 /NDF: 562.9/22

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.965 $\pm$ 0.256 χ^2 /NDF: 587.1/26

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

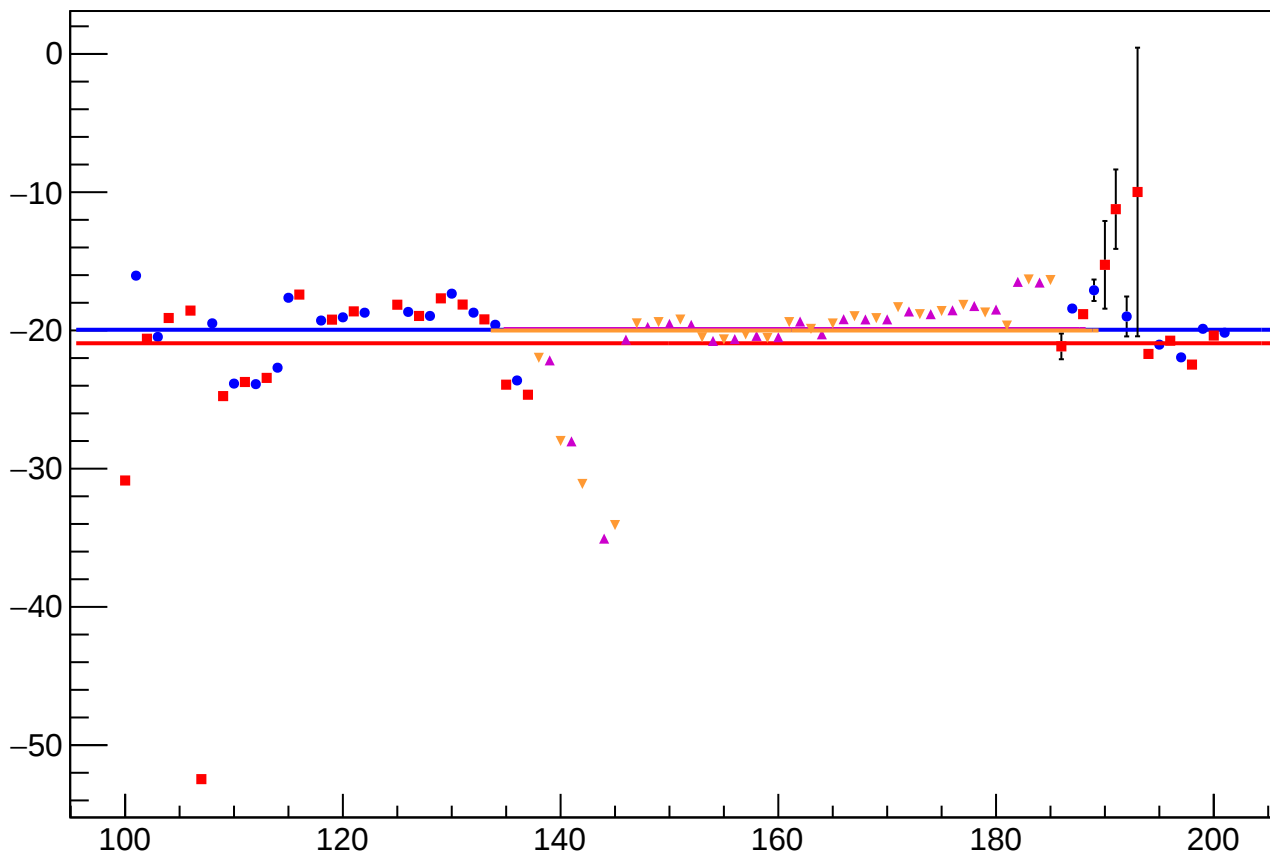
Right: 4.410 $\pm$ 0.179 χ^2 /NDF: 1156.0/49

In: 7.468 $\pm$ 0.141 χ^2 /NDF:1158.3/45

Out: 7.259 $\pm$ 0.141 χ^2 /NDF:1065.9/50

All: 7.363 $\pm$ 0.100 χ^2 /NDF: 2225.2/96

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.951 ± 0.015 χ^2/NDF : 26447.3/22

Left Out: -20.006 ± 0.008 χ^2/NDF : 171763.9/23

Right Out: -20.928 ± 0.015 χ^2/NDF : 94437.3/26

Left In: -19.898 ± 0.008 χ^2/NDF : 144191.9/22

Left: -19.951 ± 0.006 χ^2/NDF : 316049.4/46

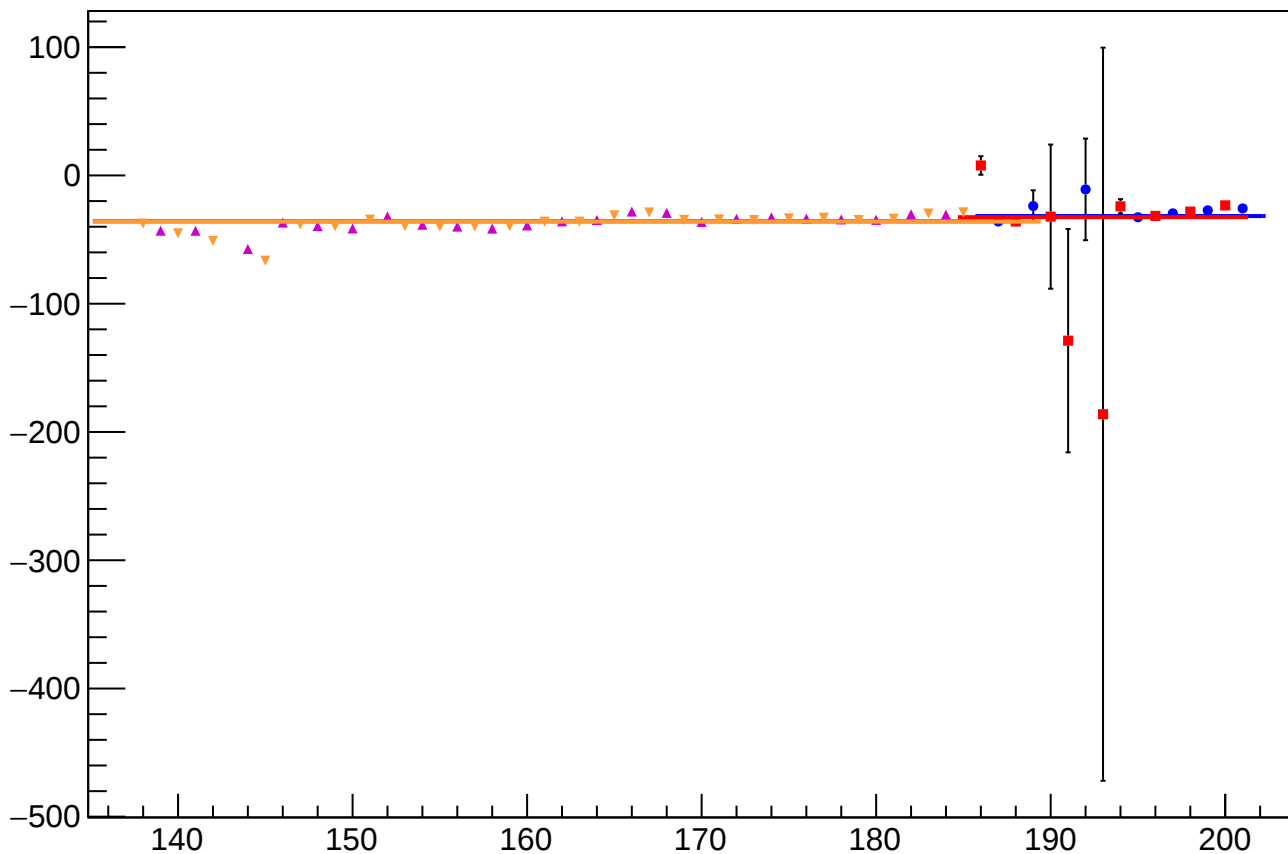
Right: -20.436 ± 0.011 χ^2/NDF : 122971.1/49

In: -19.909 ± 0.007 χ^2/NDF : 170649.1/45

Out: -20.202 ± 0.007 χ^2/NDF : 269109.0/50

All: -20.055 ± 0.005 χ^2/NDF : 440636.7/96

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected

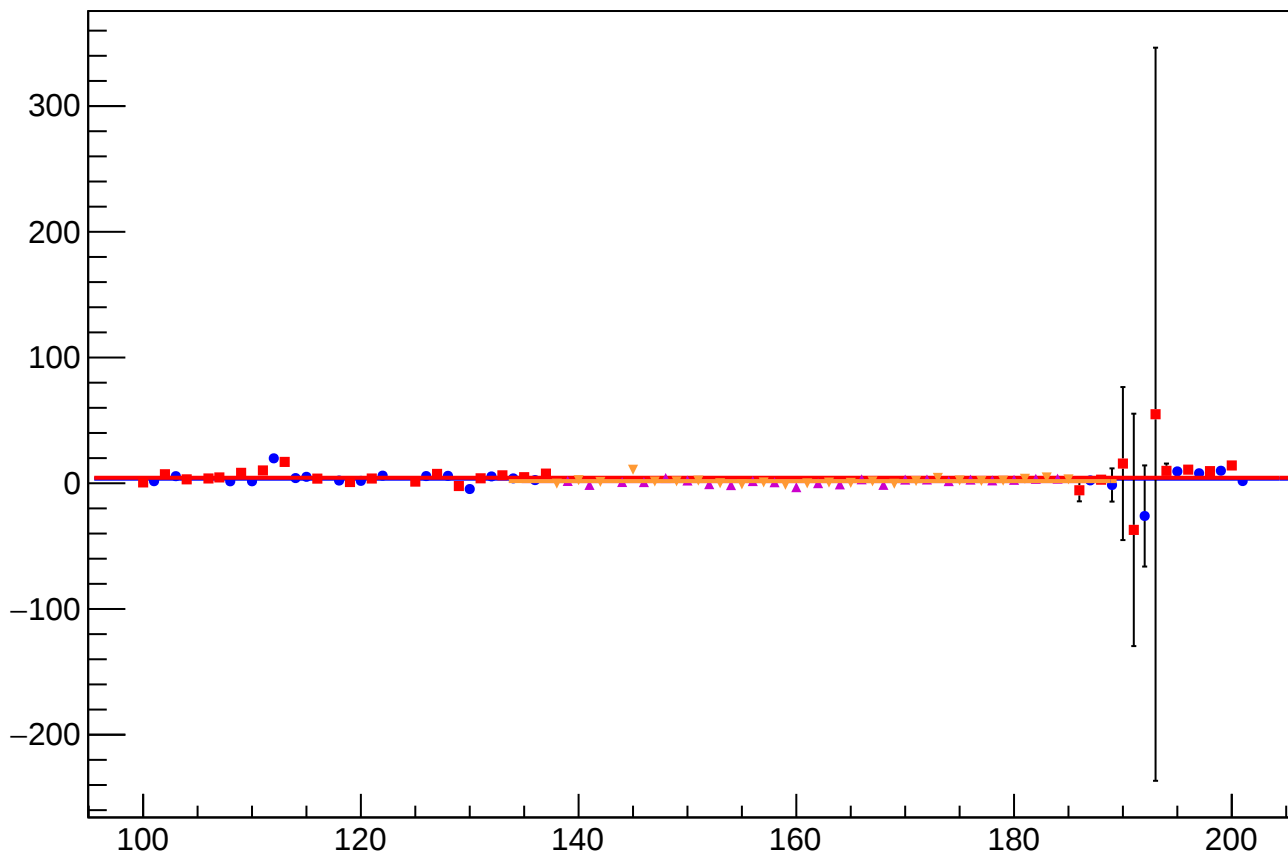


Right In: -31.665 $\pm$ 1.156 χ^2 /NDF: 11.6/6
 Left Out: -36.031 $\pm$ 0.192 χ^2 /NDF:1121.3/23
 Right Out: -32.536 $\pm$ 0.966 χ^2 /NDF: 52.9/8
 Left In: -35.766 $\pm$ 0.191 χ^2 /NDF:842.6/22

Left: -35.898 $\pm$ 0.135 χ^2 /NDF: 1964.8/46
 Right: -32.178 $\pm$ 0.741 χ^2 /NDF: 64.8/15
 In: -35.657 $\pm$ 0.189 χ^2 /NDF:866.4/29
 Out: -35.898 $\pm$ 0.188 χ^2 /NDF:1186.8/32

All: -35.778 $\pm$ 0.133 χ^2 /NDF: 2054.0/62

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.623 $\pm$ 0.218 χ^2 /NDF: 447.6/22

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.382 $\pm$ 0.218 χ^2 /NDF: 370.0/26

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

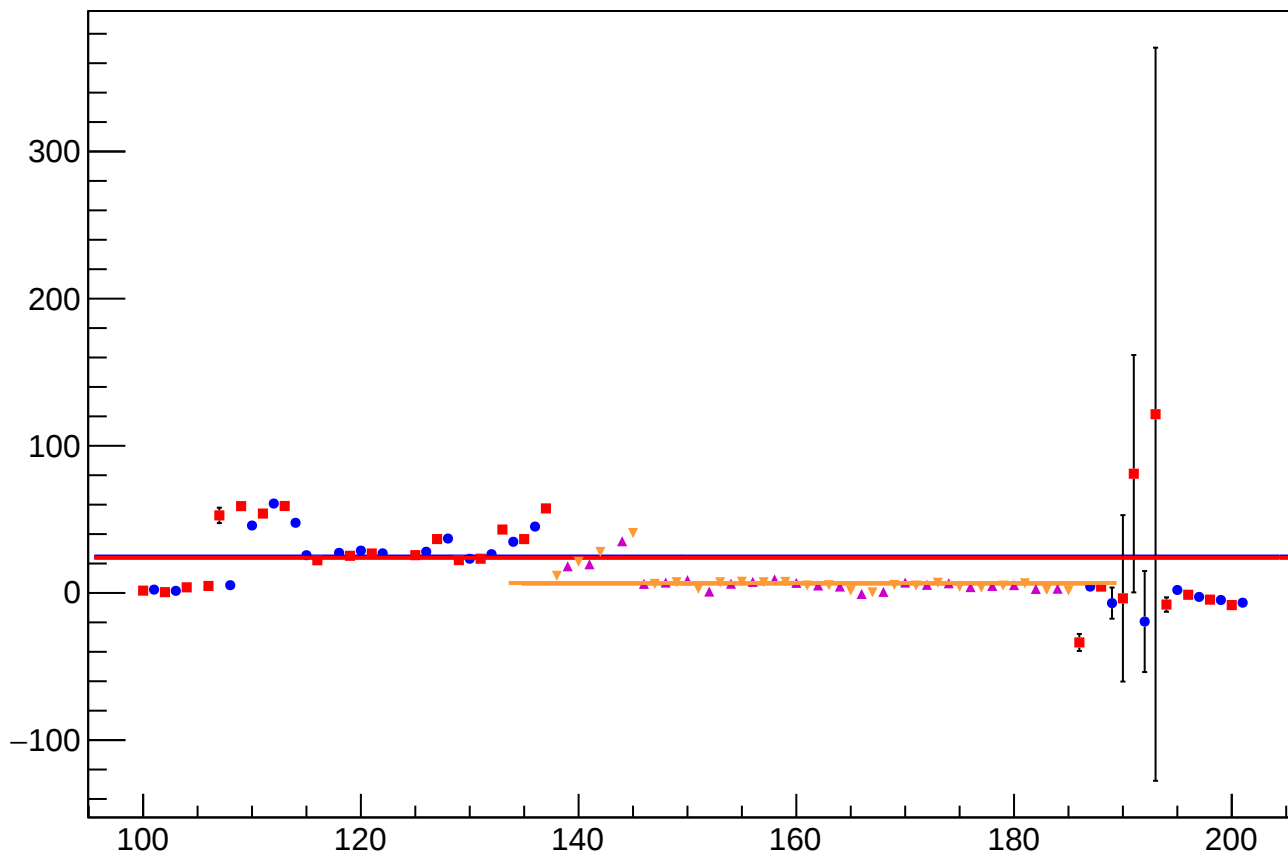
Right: 4.002 $\pm$ 0.154 χ^2 /NDF: 823.7/49

In: 2.319 $\pm$ 0.123 χ^2 /NDF:663.4/45

Out: 2.559 $\pm$ 0.122 χ^2 /NDF:639.9/50

All: 2.440 $\pm$ 0.087 χ^2 /NDF: 1305.2/96

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 24.762 $\pm$ 0.386 χ^2 /NDF: 2255.4/22

Left Out: 6.779 $\pm$ 0.191 χ^2 /NDF:1297.7/23

Right Out: 23.846 $\pm$ 0.360 χ^2 /NDF: 3227.4/26

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

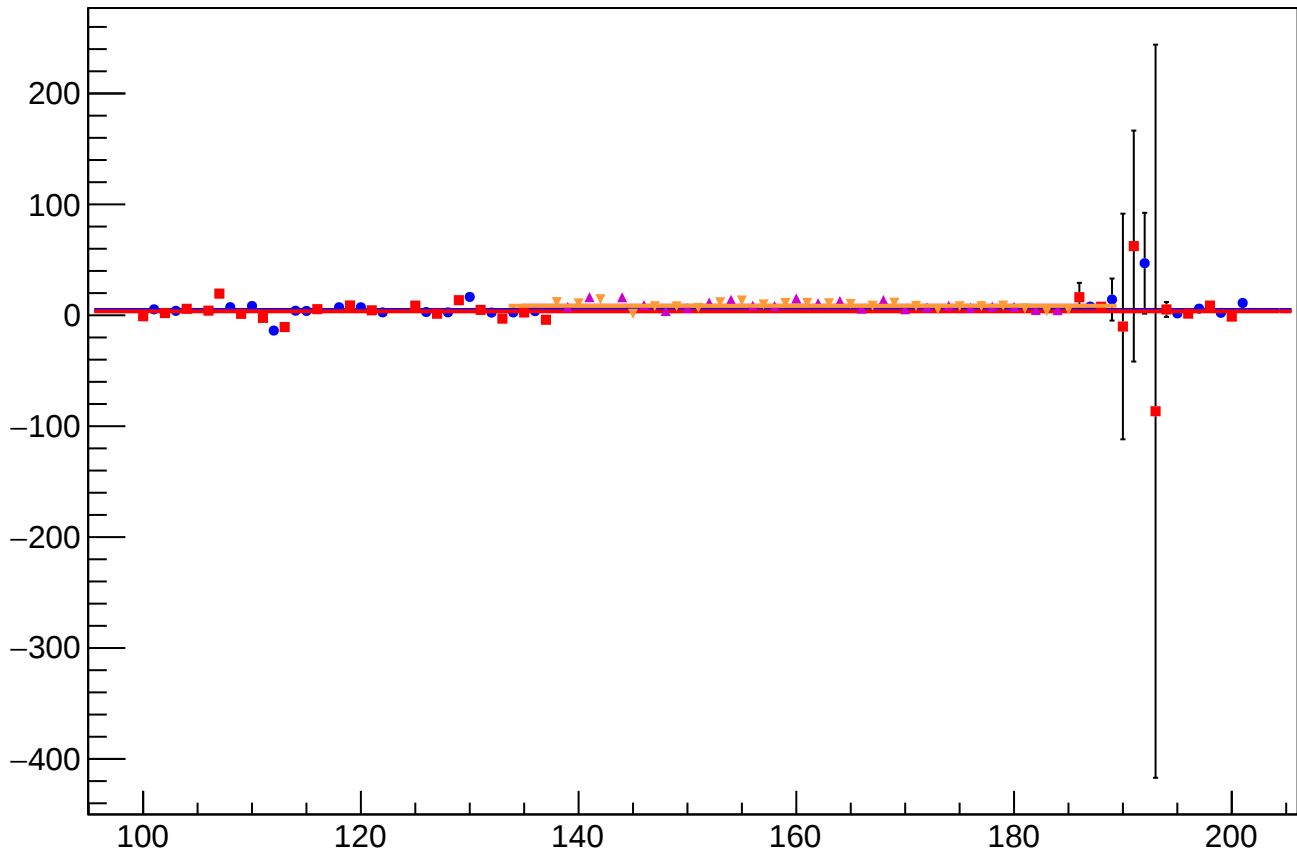
Right: 24.272 $\pm$ 0.263 χ^2 /NDF: 5485.8/49

In: 10.099 $\pm$ 0.171 χ^2 /NDF:5069.3/45

Out: 10.543 $\pm$ 0.169 χ^2 /NDF:6280.7/50

All: 10.323 $\pm$ 0.120 χ^2 /NDF: 11353.4/96

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.769 $\pm$ 0.252 χ^2 /NDF: 548.5/22

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF: 245.5/23

Right Out: 3.607 $\pm$ 0.252 χ^2 /NDF: 577.5/26

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

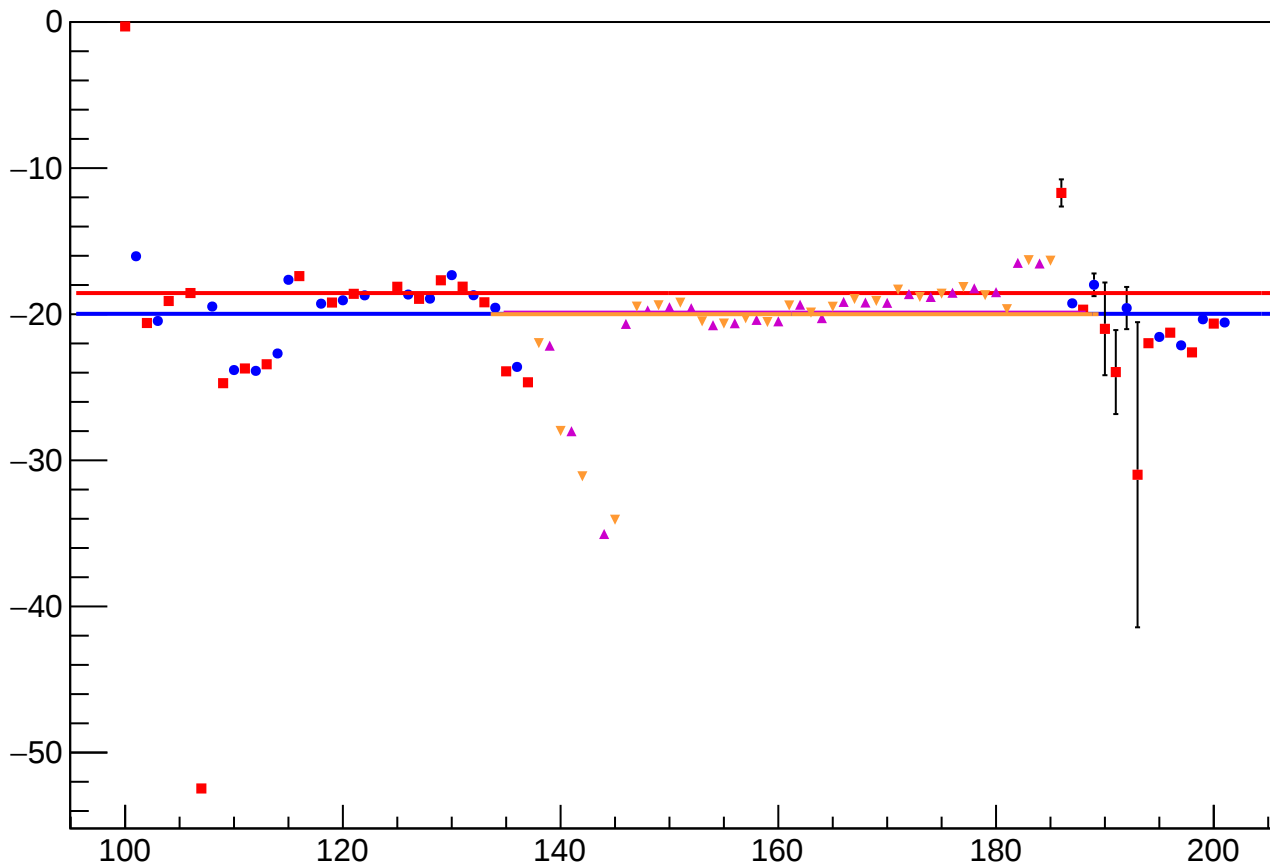
Right: 4.188 $\pm$ 0.178 χ^2 /NDF: 1136.6/49

In: 7.388 $\pm$ 0.141 χ^2 /NDF: 1148.2/45

Out: 7.040 $\pm$ 0.140 χ^2 /NDF: 1092.8/50

All: 7.213 $\pm$ 0.099 χ^2 /NDF: 2244.1/96

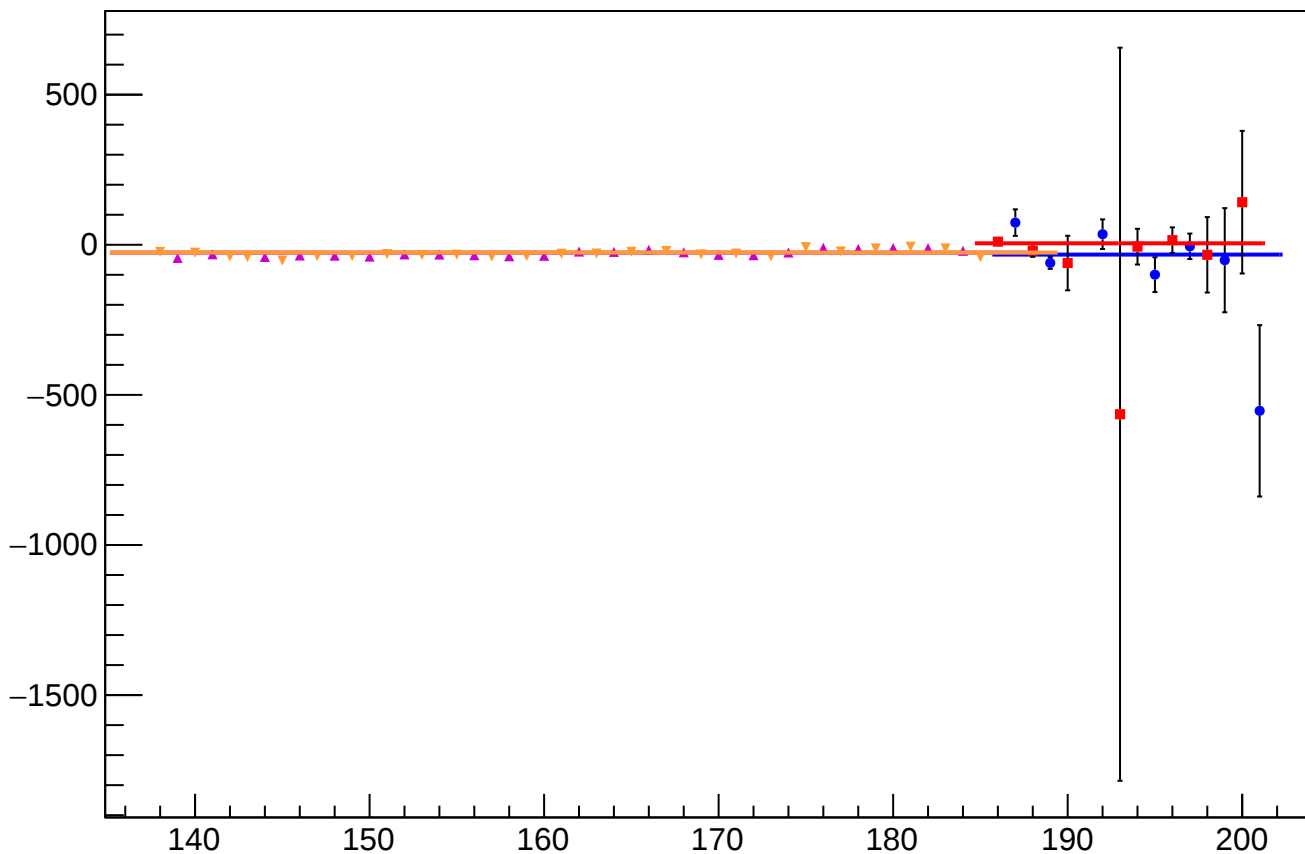
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.972 ± 0.015 $\chi^2/\text{NDF}: 26604.9/22$
 Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$
 Right Out: -18.552 ± 0.014 $\chi^2/\text{NDF}: 303646.0/26$
 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: -19.225 ± 0.010 $\chi^2/\text{NDF}: 334929.6/49$
 In: -19.908 ± 0.007 $\chi^2/\text{NDF}: 170683.4/45$
 Out: -19.661 ± 0.007 $\chi^2/\text{NDF}: 483431.2/50$
 All: -19.783 ± 0.005 $\chi^2/\text{NDF}: 654750.9/96$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.667 ± 15.119 χ^2/NDF : 14.8/6

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 4.902 ± 8.292 χ^2/NDF : 3.0/7

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

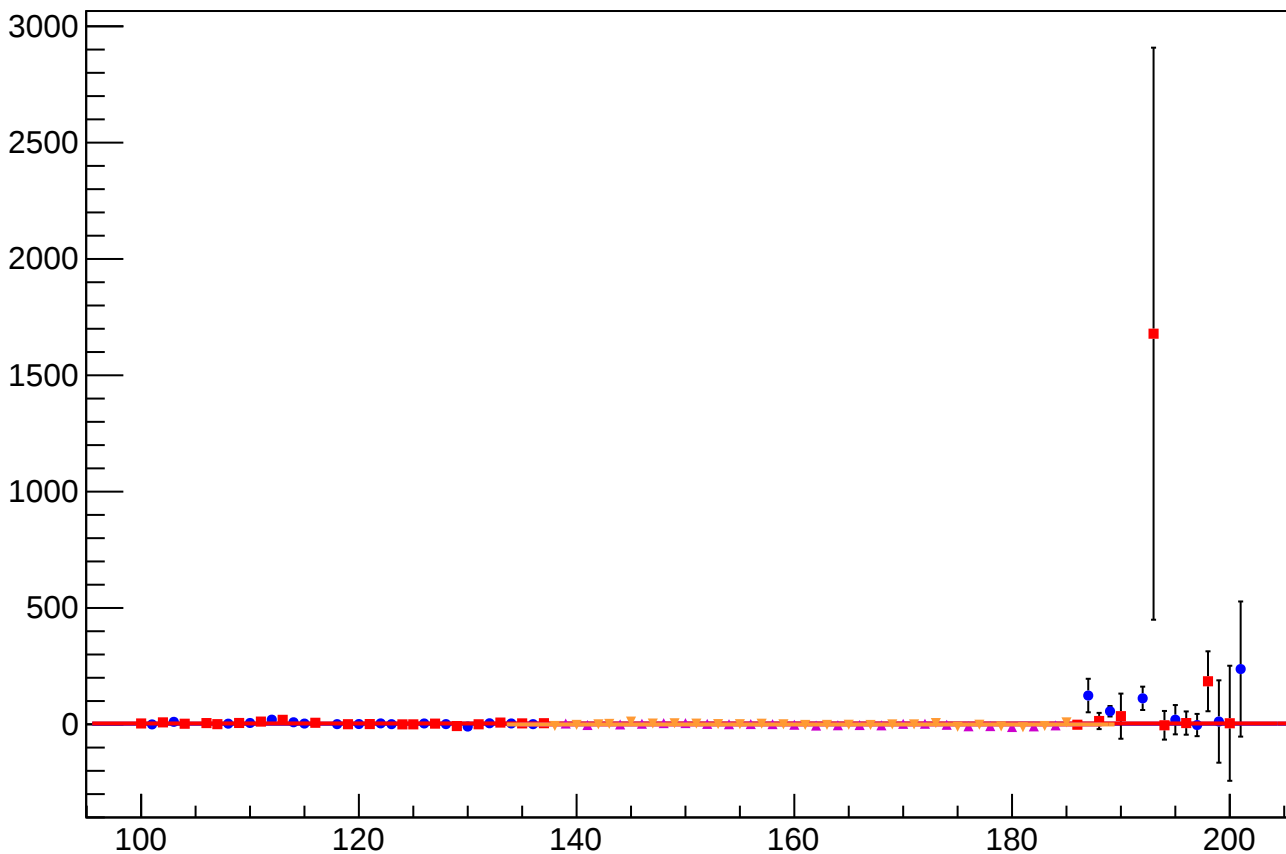
Right: -3.786 ± 7.270 χ^2/NDF : 22.5/14

In: -26.053 ± 0.195 χ^2/NDF : 3294.4/29

Out: -25.868 ± 0.192 χ^2/NDF : 4174.7/32

All: -25.959 ± 0.137 χ^2/NDF : 7469.6/62

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.472+/-0.315 χ^2/NDF : 308.3/23

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.712+/-0.327 χ^2/NDF : 273.4/26

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

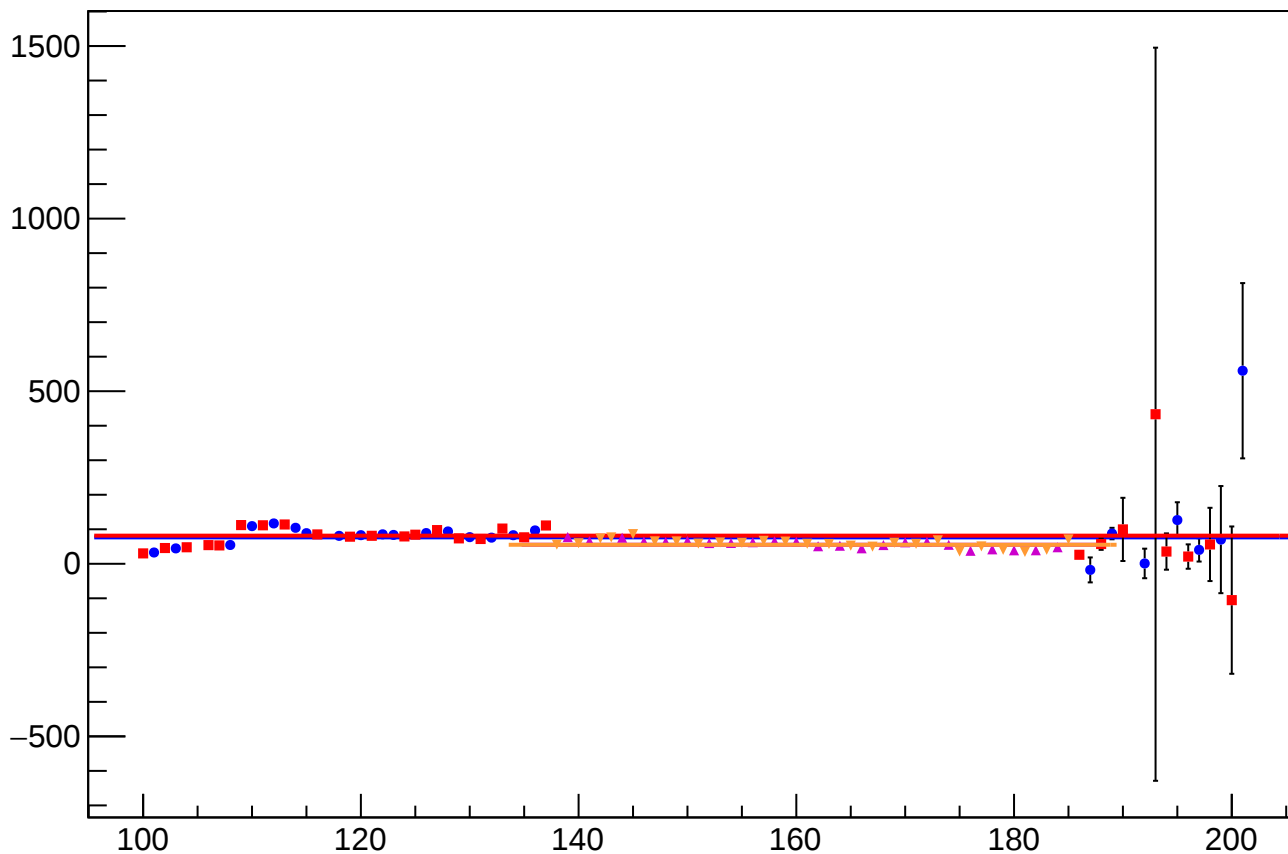
Right: 3.069+/-0.227 χ^2/NDF : 589.2/50

In: -0.243+/-0.136 χ^2/NDF : 1466.2/46

Out: 0.075+/-0.133 χ^2/NDF : 1743.1/51

All: -0.082+/-0.095 χ^2/NDF : 3212.1/98

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.528 $\pm$ 0.576 χ^2 /NDF: 2268.8/23

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.493 $\pm$ 0.591 χ^2 /NDF: 1631.3/26

Left In: 55.070 $\pm$ 0.193 χ^2 /NDF: 3702.8/22

Left: 55.084 $\pm$ 0.136 χ^2 /NDF: 8282.1/47

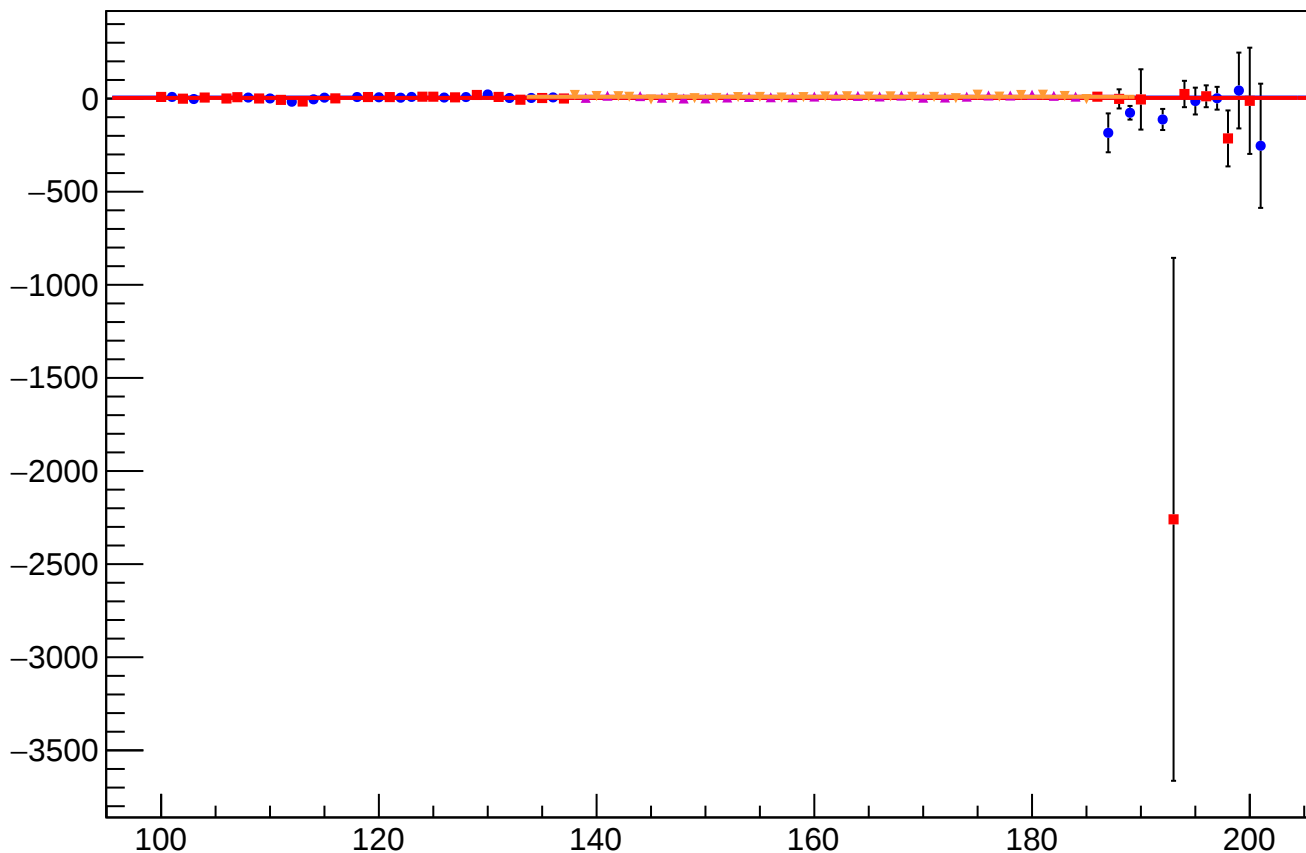
Right: 78.950 $\pm$ 0.412 χ^2 /NDF: 3936.3/50

In: 57.243 $\pm$ 0.183 χ^2 /NDF: 7217.5/46

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8018.2/51

All: 57.427 $\pm$ 0.129 χ^2 /NDF: 15237.8/98

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.412 ± 0.361 χ^2/NDF : 398.9/23

Left Out: 9.737 ± 0.168 χ^2/NDF : 1450.2/24

Right Out: 3.584 ± 0.375 χ^2/NDF : 426.6/26

Left In: 9.803 ± 0.172 χ^2/NDF : 1158.7/22

Left: 9.769 ± 0.120 χ^2/NDF : 2609.0/47

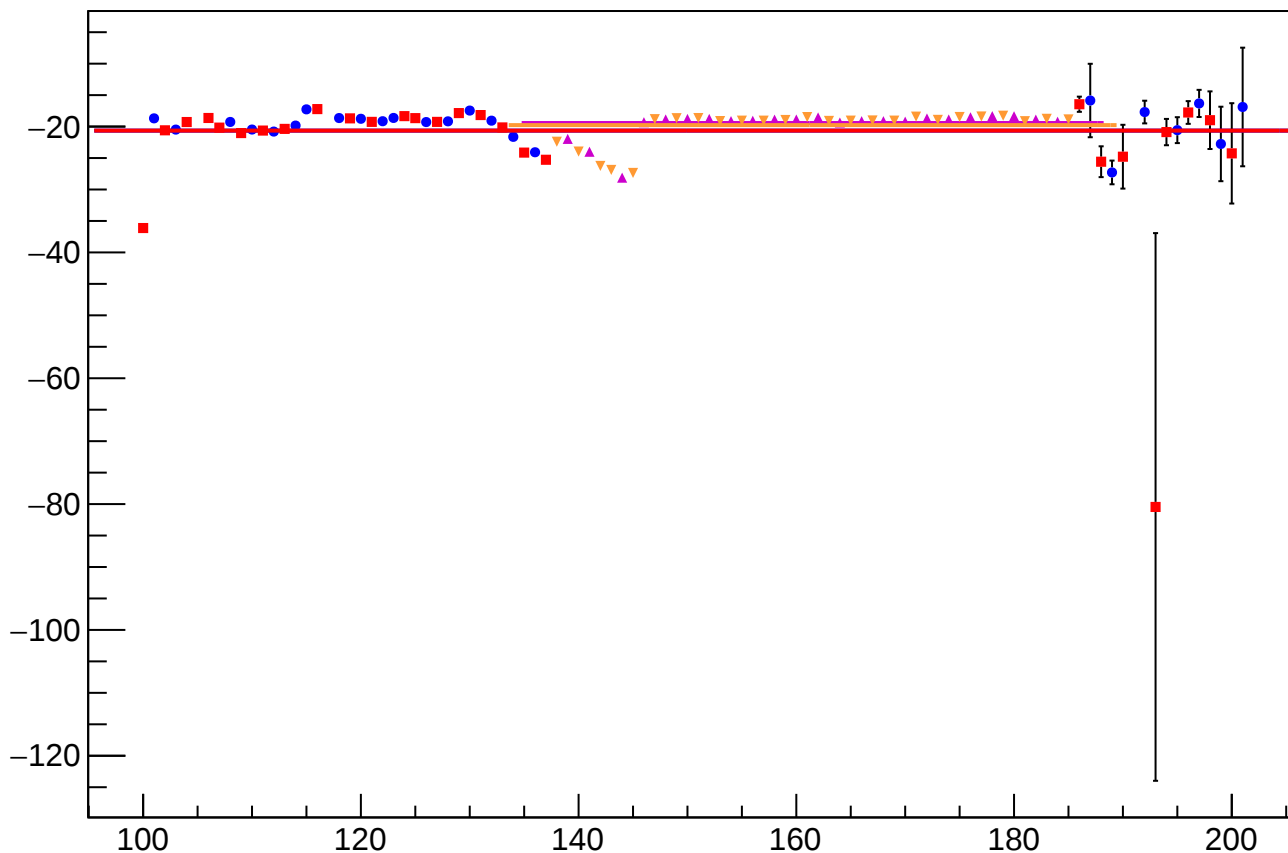
Right: 4.534 ± 0.260 χ^2/NDF : 837.8/50

In: 8.993 ± 0.155 χ^2/NDF : 1678.4/46

Out: 8.713 ± 0.153 χ^2/NDF : 2100.7/51

All: 8.851 ± 0.109 χ^2/NDF : 3780.7/98

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 ± 0.019 $\chi^2/\text{NDF}: 12444.3/23$

Left Out: -19.767 ± 0.008 $\chi^2/\text{NDF}: 91617.3/24$

Right Out: -20.639 ± 0.019 $\chi^2/\text{NDF}: 13807.4/26$

Left In: -19.435 ± 0.008 $\chi^2/\text{NDF}: 53170.9/22$

Left: -19.603 ± 0.006 $\chi^2/\text{NDF}: 145665.0/47$

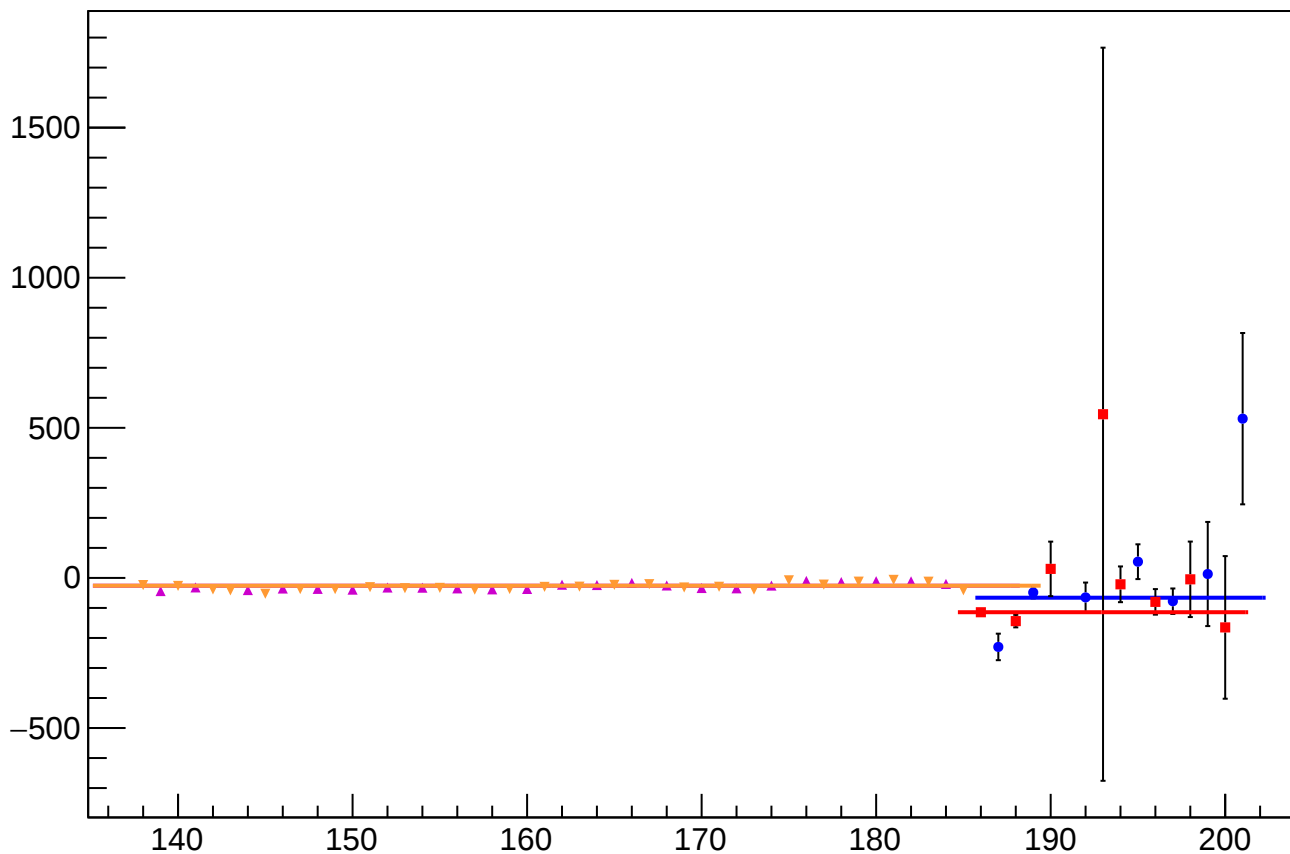
Right: -20.641 ± 0.014 $\chi^2/\text{NDF}: 26251.8/50$

In: -19.610 ± 0.007 $\chi^2/\text{NDF}: 68952.7/46$

Out: -19.890 ± 0.007 $\chi^2/\text{NDF}: 107148.0/51$

All: -19.751 ± 0.005 $\chi^2/\text{NDF}: 176829.4/98$

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -65.924 ± 15.131 χ^2/NDF : 23.5/6

Left Out: -25.899 ± 0.192 χ^2/NDF : 4127.5/24

Right Out: -114.235 ± 8.298 χ^2/NDF : 8.7/7

Left In: -26.046 ± 0.195 χ^2/NDF : 3246.7/22

Left: -25.971 ± 0.137 χ^2/NDF : 7374.6/47

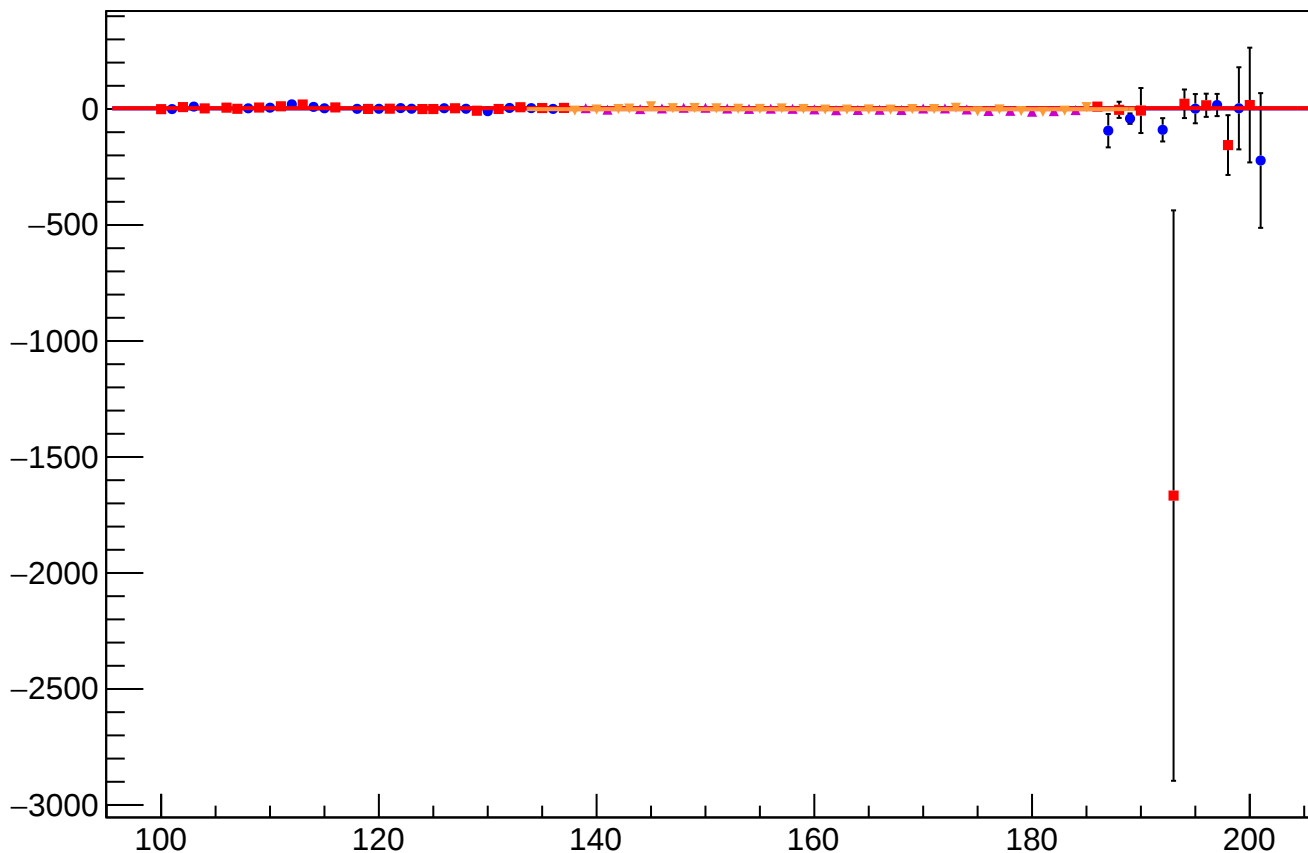
Right: -103.065 ± 7.276 χ^2/NDF : 40.1/14

In: -26.053 ± 0.195 χ^2/NDF : 3277.2/29

Out: -25.946 ± 0.192 χ^2/NDF : 4249.5/32

All: -25.999 ± 0.137 χ^2/NDF : 7526.9/62

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected

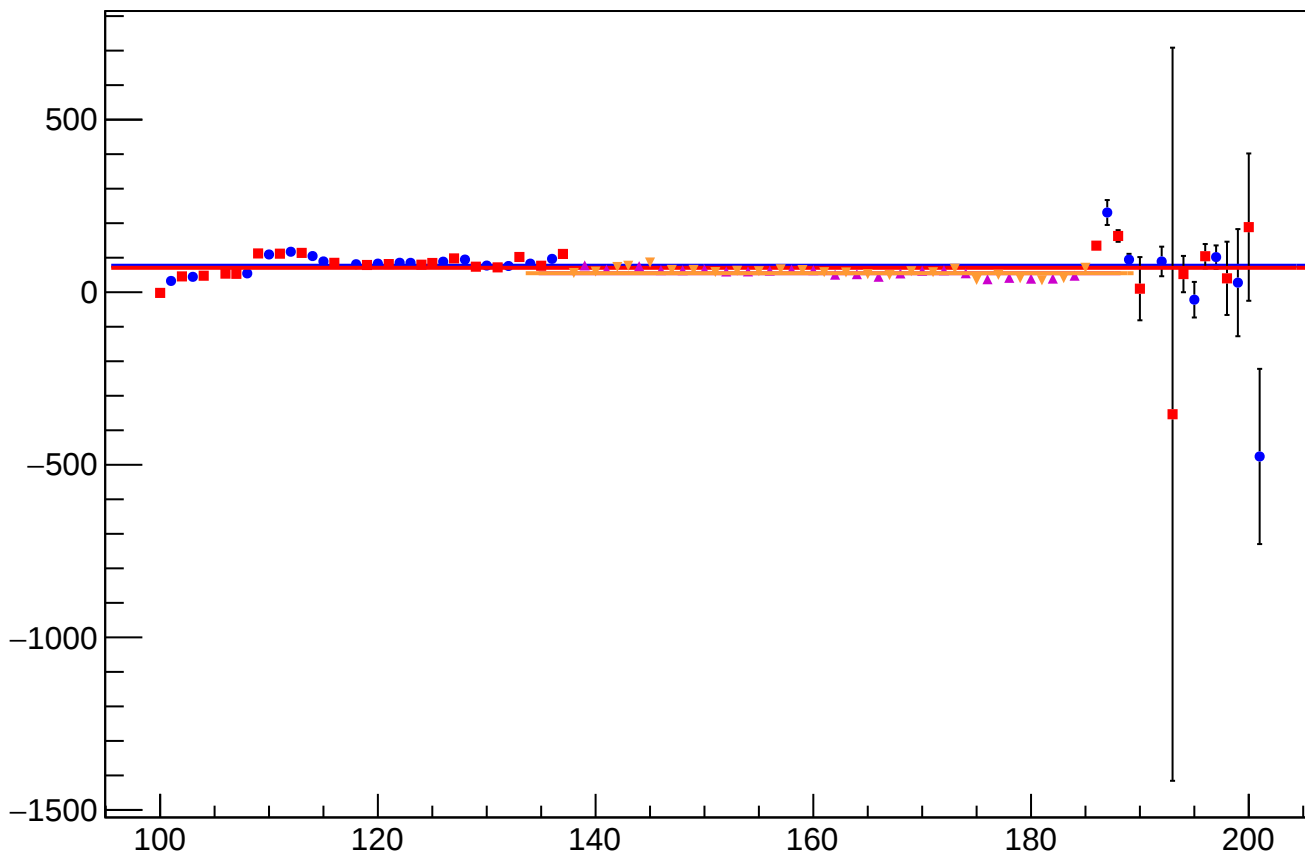


Right In: 2.442 ± 0.315 $\chi^2/\text{NDF}: 302.0/23$
 Left Out: -0.596 ± 0.146 $\chi^2/\text{NDF}: 1310.7/24$
 Right Out: 3.596 ± 0.318 $\chi^2/\text{NDF}: 284.0/26$
 Left In: -0.795 ± 0.151 $\chi^2/\text{NDF}: 1106.3/22$

Left: -0.693 ± 0.105 $\chi^2/\text{NDF}: 2417.9/47$
 Right: 3.013 ± 0.224 $\chi^2/\text{NDF}: 592.6/50$
 In: -0.193 ± 0.136 $\chi^2/\text{NDF}: 1494.2/46$
 Out: 0.136 ± 0.133 $\chi^2/\text{NDF}: 1738.1/51$

All: -0.025 ± 0.095 $\chi^2/\text{NDF}: 3235.3/98$

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.729 $\pm$ 0.577 χ^2 /NDF: 2293.3/23

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.755 $\pm$ 0.549 χ^2 /NDF: 4491.2/26

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

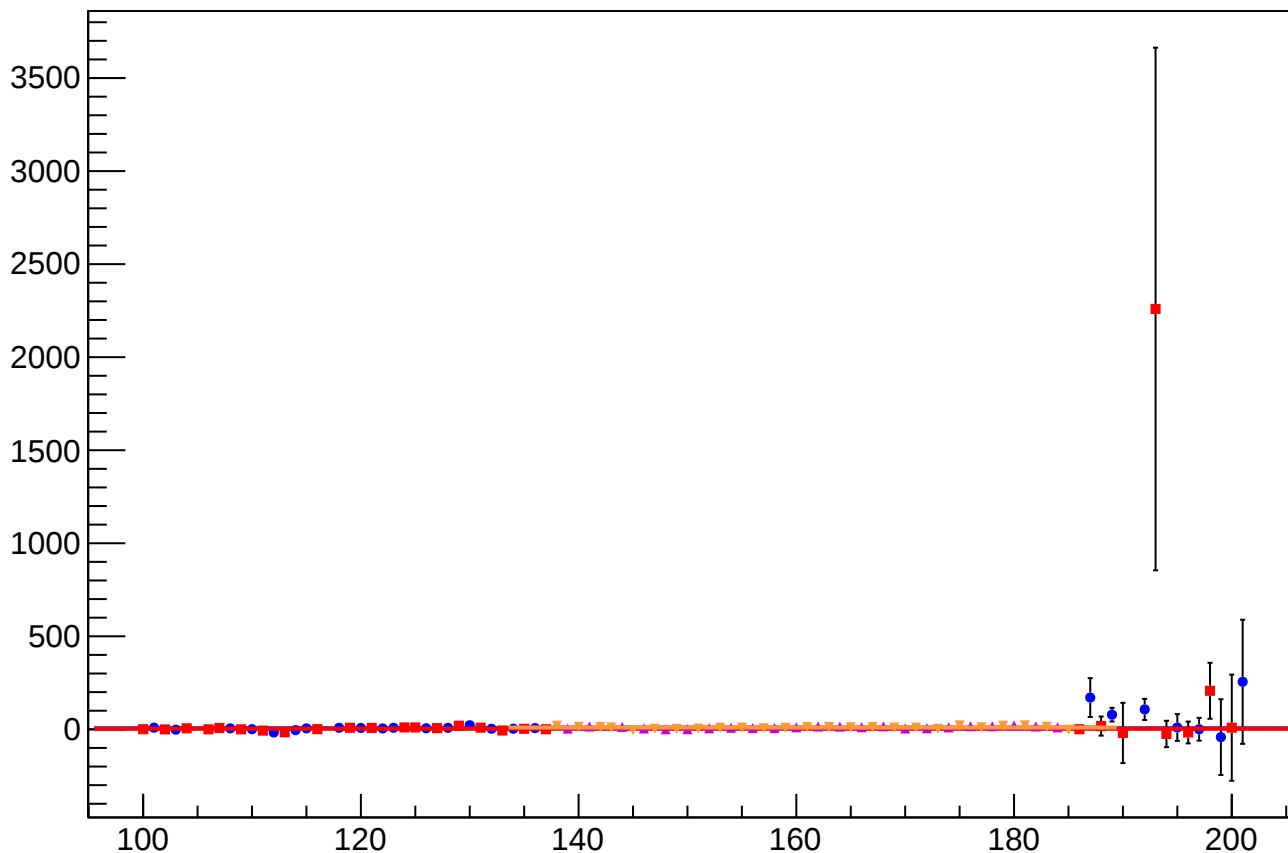
Right: 73.594 $\pm$ 0.397 χ^2 /NDF: 6840.8/50

In: 57.286 $\pm$ 0.184 χ^2 /NDF: 7223.1/46

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9775.9/51

All: 57.045 $\pm$ 0.129 χ^2 /NDF: 17002.4/98

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.441 $\pm$ 0.361 χ^2 /NDF: 394.5/23

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.279 $\pm$ 0.365 χ^2 /NDF: 429.9/26

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

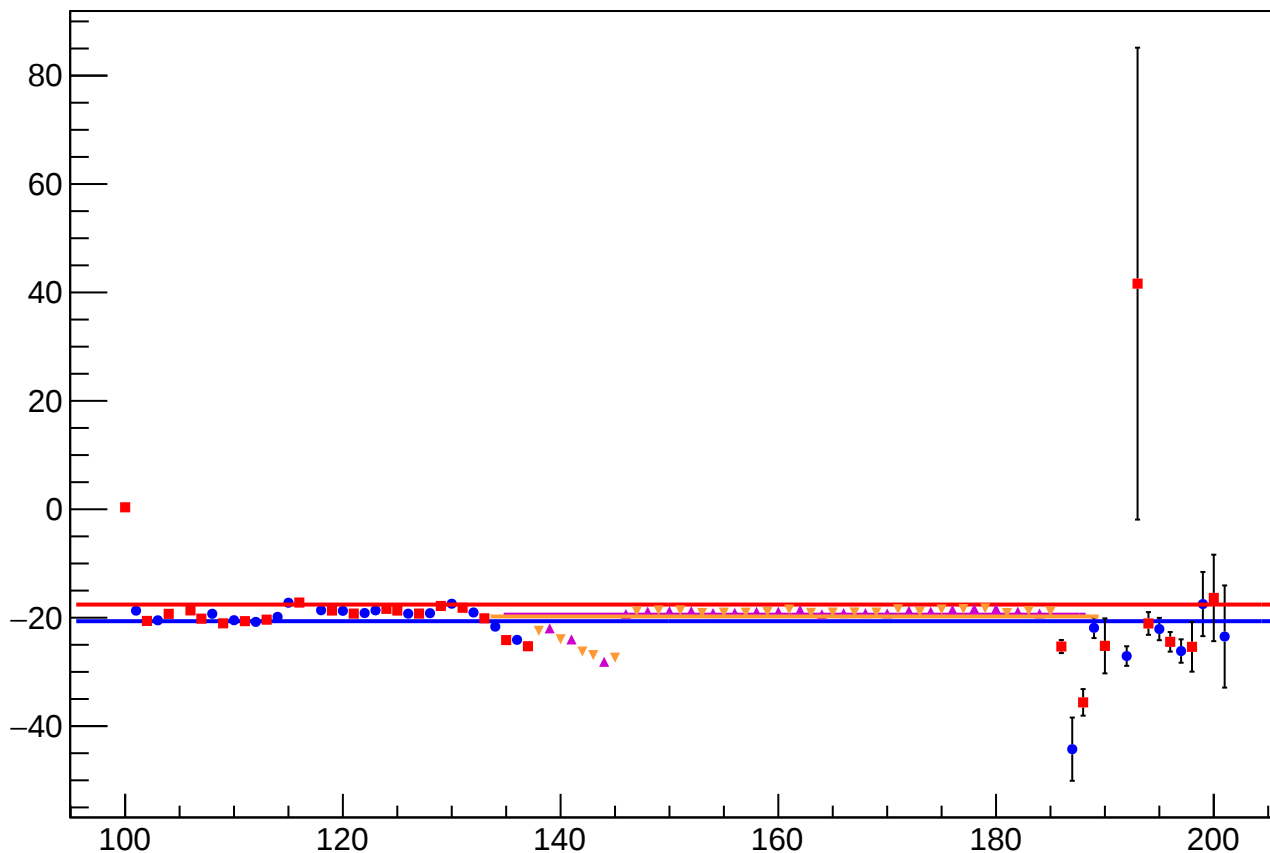
Right: 4.373 $\pm$ 0.257 χ^2 /NDF: 842.1/50

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1701.1/46

Out: 8.561 $\pm$ 0.153 χ^2 /NDF:2124.1/51

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3828.3/98

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 $\pm$ 0.019 χ^2 /NDF: 12499.6/23

Left Out: -19.775 $\pm$ 0.008 χ^2 /NDF: 91510.1/24

Right Out: -17.575 $\pm$ 0.018 χ^2 /NDF: 178437.7/26

Left In: -19.445 $\pm$ 0.008 χ^2 /NDF: 53124.1/22

Left: -19.611 $\pm$ 0.006 χ^2 /NDF: 145502.5/47

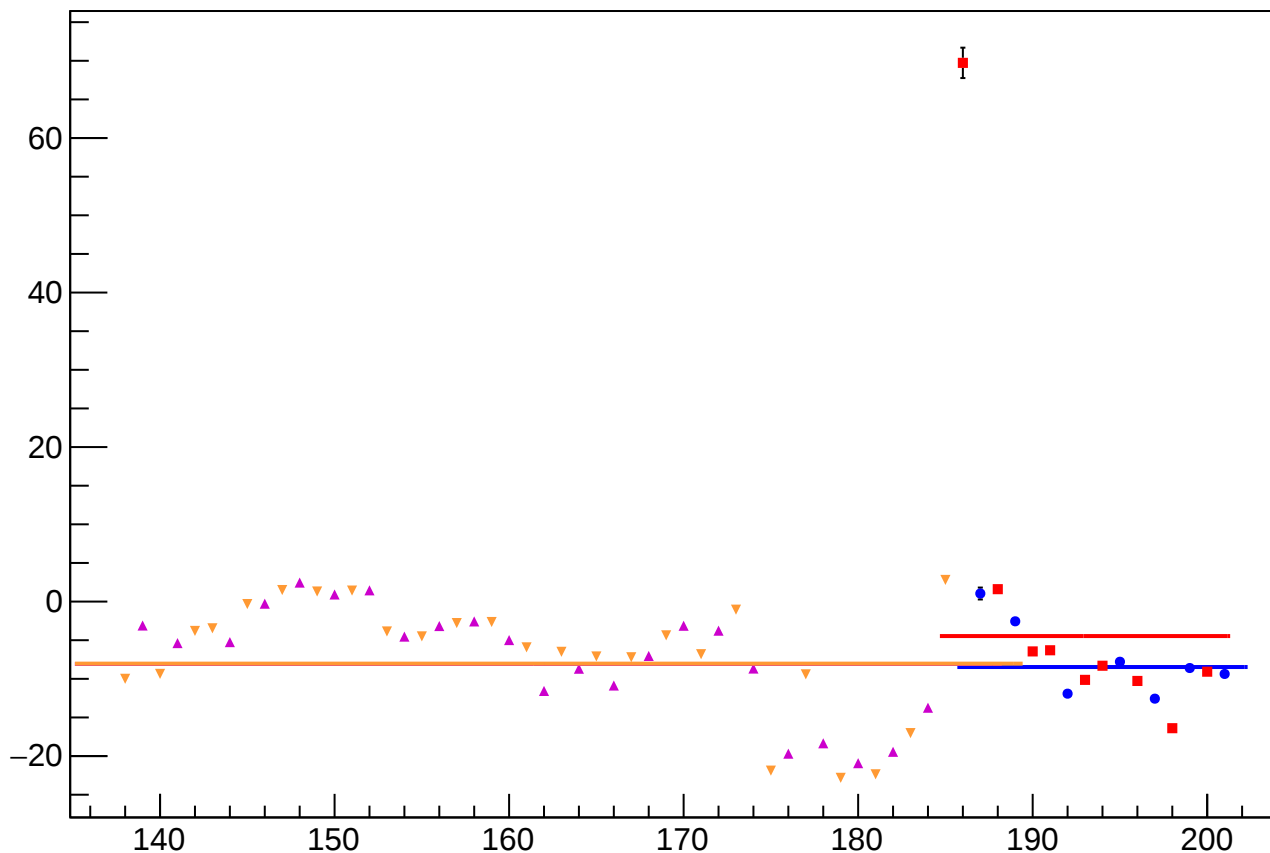
Right: -19.003 $\pm$ 0.013 χ^2 /NDF: 204410.9/50

In: -19.618 $\pm$ 0.007 χ^2 /NDF: 68922.1/46

Out: -19.422 $\pm$ 0.007 χ^2 /NDF: 282427.8/51

All: -19.518 $\pm$ 0.005 χ^2 /NDF: 351713.1/98

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

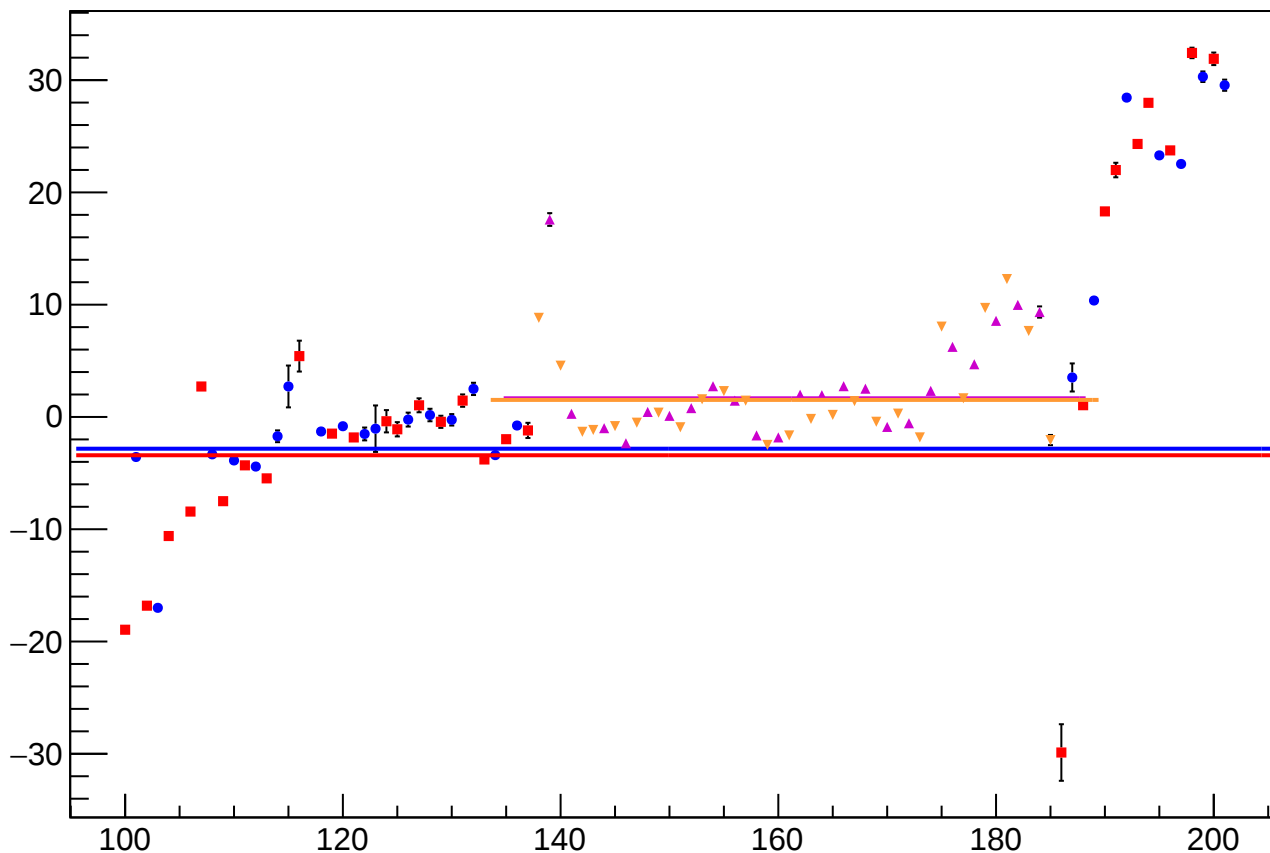


Right In: -8.471 ± 0.162 $\chi^2/\text{NDF}: 587.5/6$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -4.464 ± 0.121 $\chi^2/\text{NDF}: 3827.3/8$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$
 Right: -5.911 ± 0.097 $\chi^2/\text{NDF}: 4808.1/15$
 In: -8.143 ± 0.066 $\chi^2/\text{NDF}: 11134.0/29$
 Out: -7.138 ± 0.061 $\chi^2/\text{NDF}: 17042.5/33$

All: -7.602 ± 0.045 $\chi^2/\text{NDF}: 28302.5/63$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.828 ± 0.052 $\chi^2/\text{NDF}: 35850.9/23$

Left Out: 1.518 ± 0.054 $\chi^2/\text{NDF}: 4847.5/24$

Right Out: -3.412 ± 0.055 $\chi^2/\text{NDF}: 45871.2/27$

Left In: 1.662 ± 0.057 $\chi^2/\text{NDF}: 4034.2/22$

Left: 1.587 ± 0.039 $\chi^2/\text{NDF}: 8885.0/47$

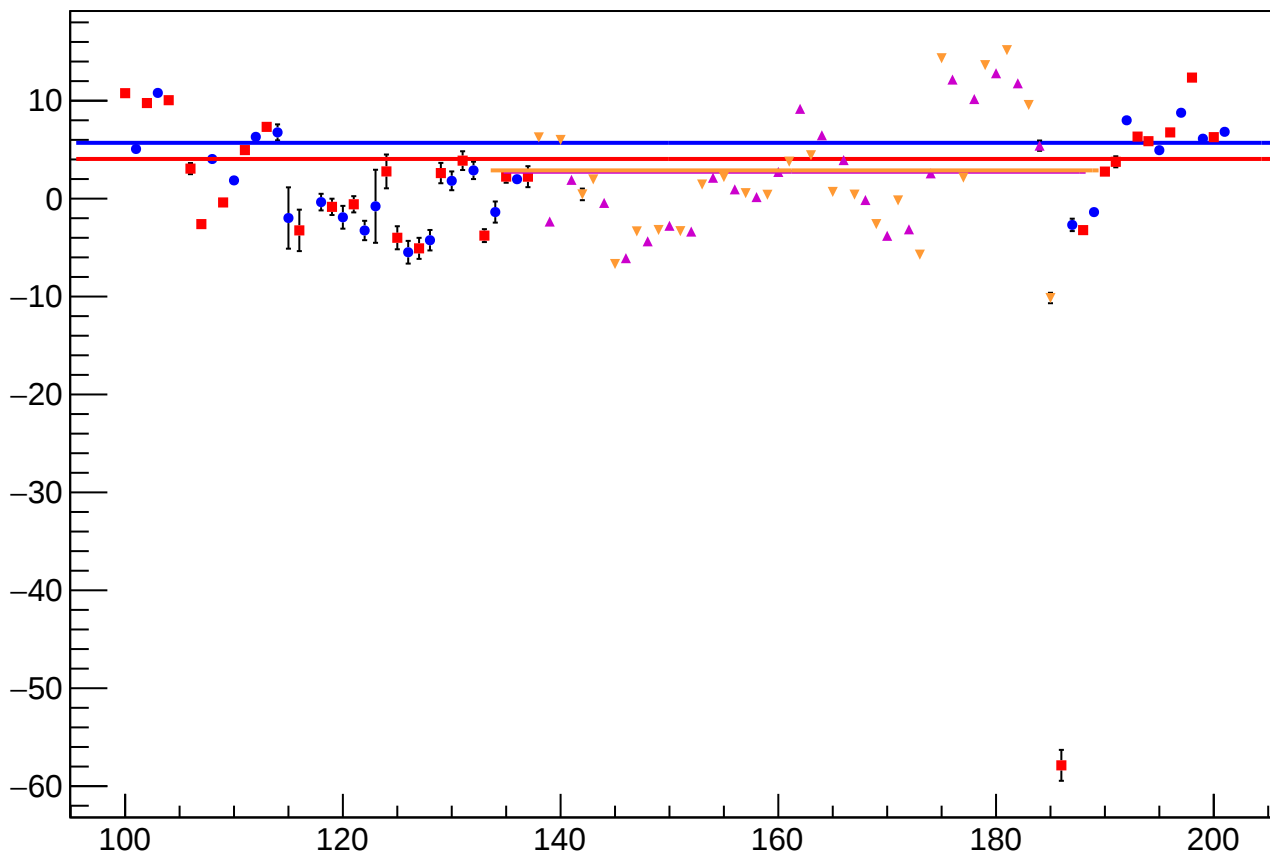
Right: -3.107 ± 0.038 $\chi^2/\text{NDF}: 81781.6/51$

In: -0.757 ± 0.038 $\chi^2/\text{NDF}: 43278.5/46$

Out: -0.932 ± 0.039 $\chi^2/\text{NDF}: 54806.4/52$

All: -0.844 ± 0.027 $\chi^2/\text{NDF}: 98095.3/99$

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.699 ± 0.076 $\chi^2/\text{NDF}: 2155.3/23$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 4.052 ± 0.069 $\chi^2/\text{NDF}: 7622.8/27$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

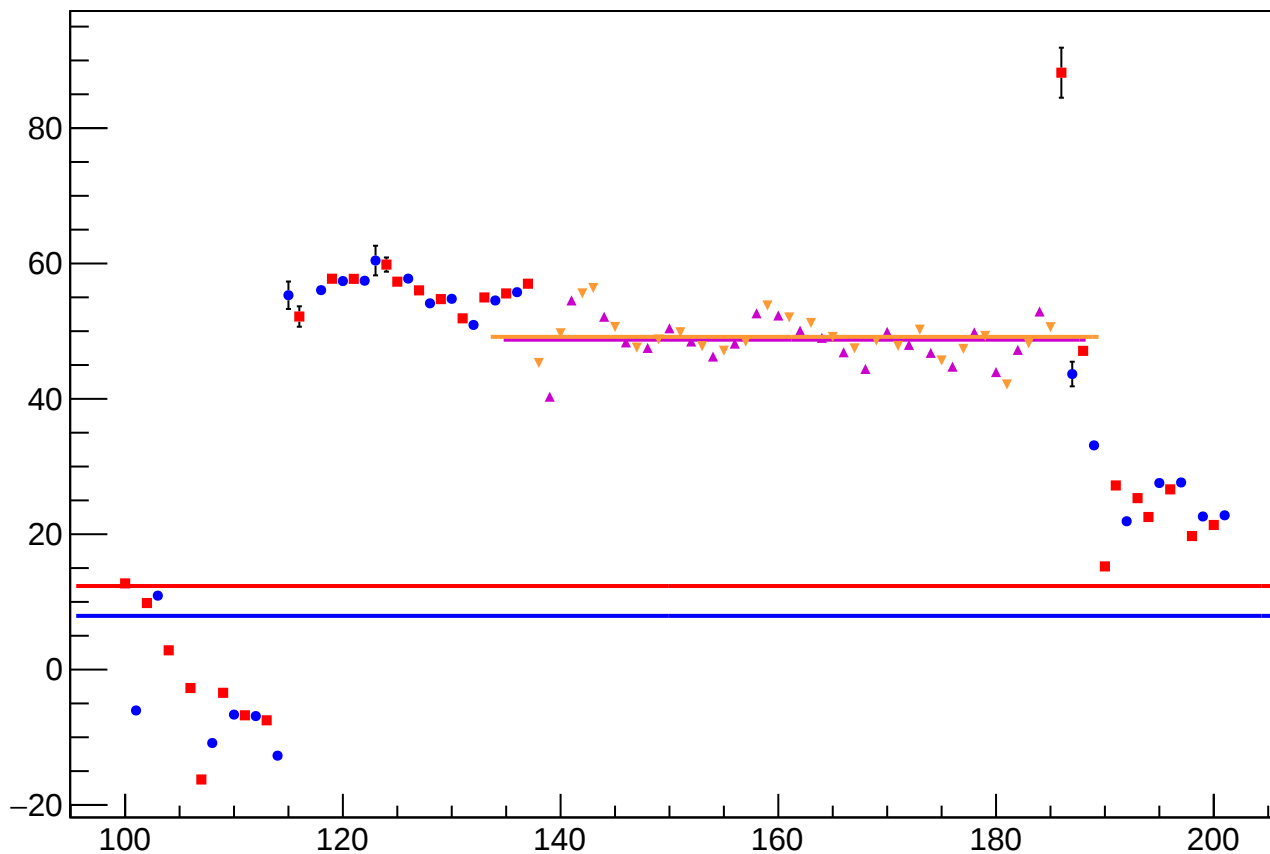
Right: 4.805 ± 0.051 $\chi^2/\text{NDF}: 10035.2/51$

In: 4.138 ± 0.052 $\chi^2/\text{NDF}: 10143.9/46$

Out: 3.475 ± 0.049 $\chi^2/\text{NDF}: 16655.6/52$

All: 3.789 ± 0.036 $\chi^2/\text{NDF}: 26885.0/99$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.937 ± 0.062 χ^2/NDF : 128979.5/23

Left Out: 49.163 ± 0.062 χ^2/NDF : 2259.9/24

Right Out: 12.348 ± 0.065 χ^2/NDF : 133687.7/27

Left In: 48.744 ± 0.064 χ^2/NDF : 2097.7/22

Left: 48.960 ± 0.044 χ^2/NDF : 4380.0/47

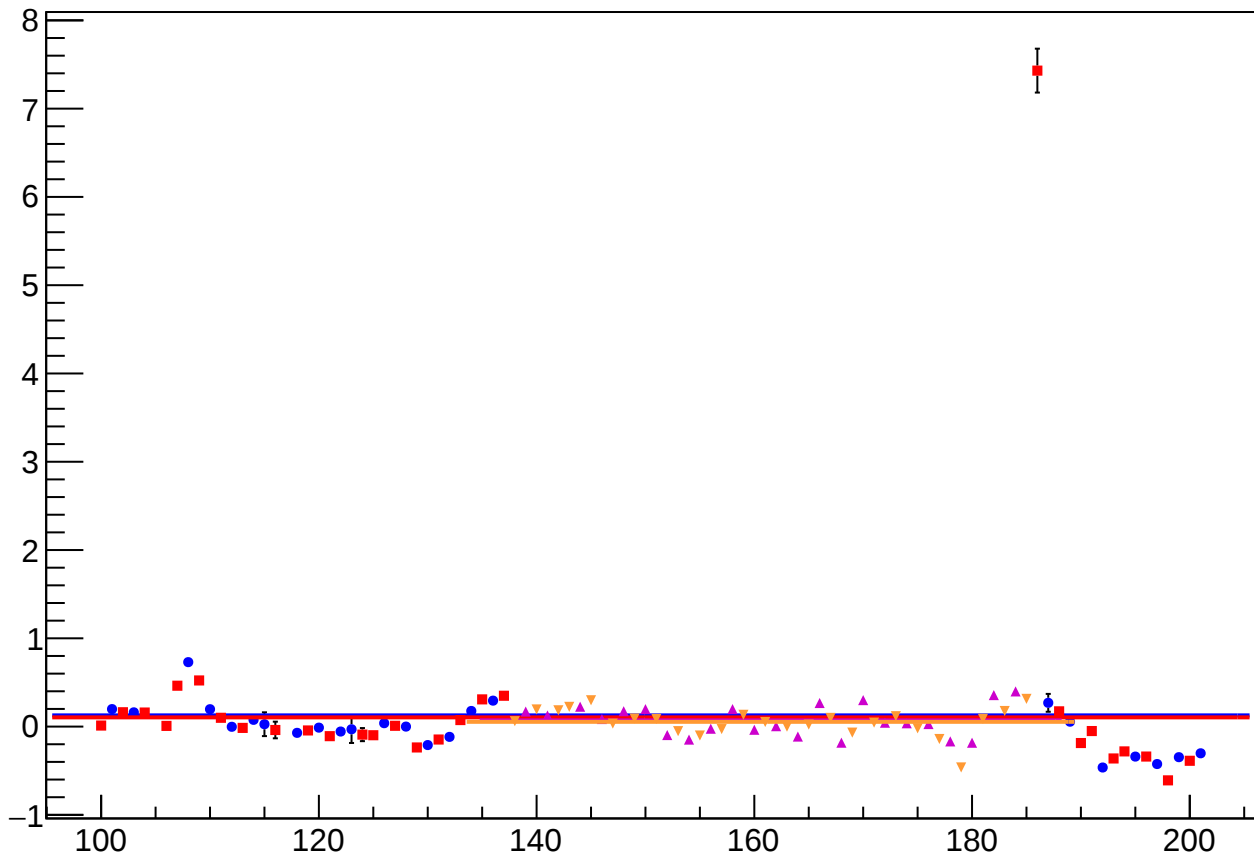
Right: 10.030 ± 0.045 χ^2/NDF : 265074.3/51

In: 27.748 ± 0.044 χ^2/NDF : 341787.7/46

Out: 31.754 ± 0.045 χ^2/NDF : 304085.7/52

All: 29.733 ± 0.032 χ^2/NDF : 649901.9/99

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.127 $\pm$ 0.003 χ^2 /NDF: 10801.1/23

Left Out: 0.054 $\pm$ 0.003 χ^2 /NDF:2379.8/24

Right Out: 0.104 $\pm$ 0.002 χ^2 /NDF: 10211.8/27

Left In: 0.070 $\pm$ 0.003 χ^2 /NDF:3233.8/22

Left: 0.062 $\pm$ 0.002 χ^2 /NDF: 5630.0/47

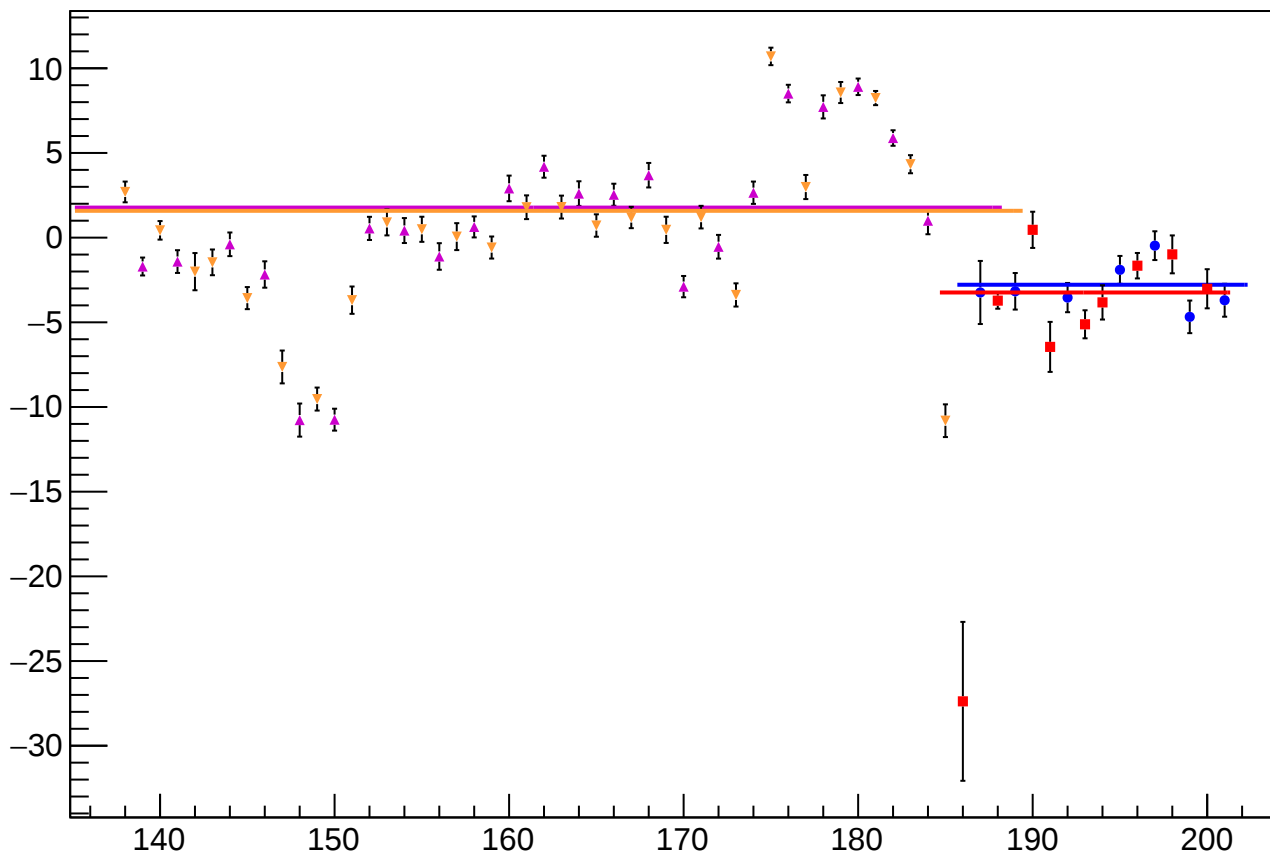
Right: 0.115 $\pm$ 0.002 χ^2 /NDF: 21054.3/51

In: 0.102 $\pm$ 0.002 χ^2 /NDF:14254.4/46

Out: 0.083 $\pm$ 0.002 χ^2 /NDF:12773.7/52

All: 0.092 $\pm$ 0.001 χ^2 /NDF: 27080.7/99

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.782 ± 0.365 χ^2/NDF : 14.2/6

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -3.239 ± 0.295 χ^2/NDF : 58.2/8

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

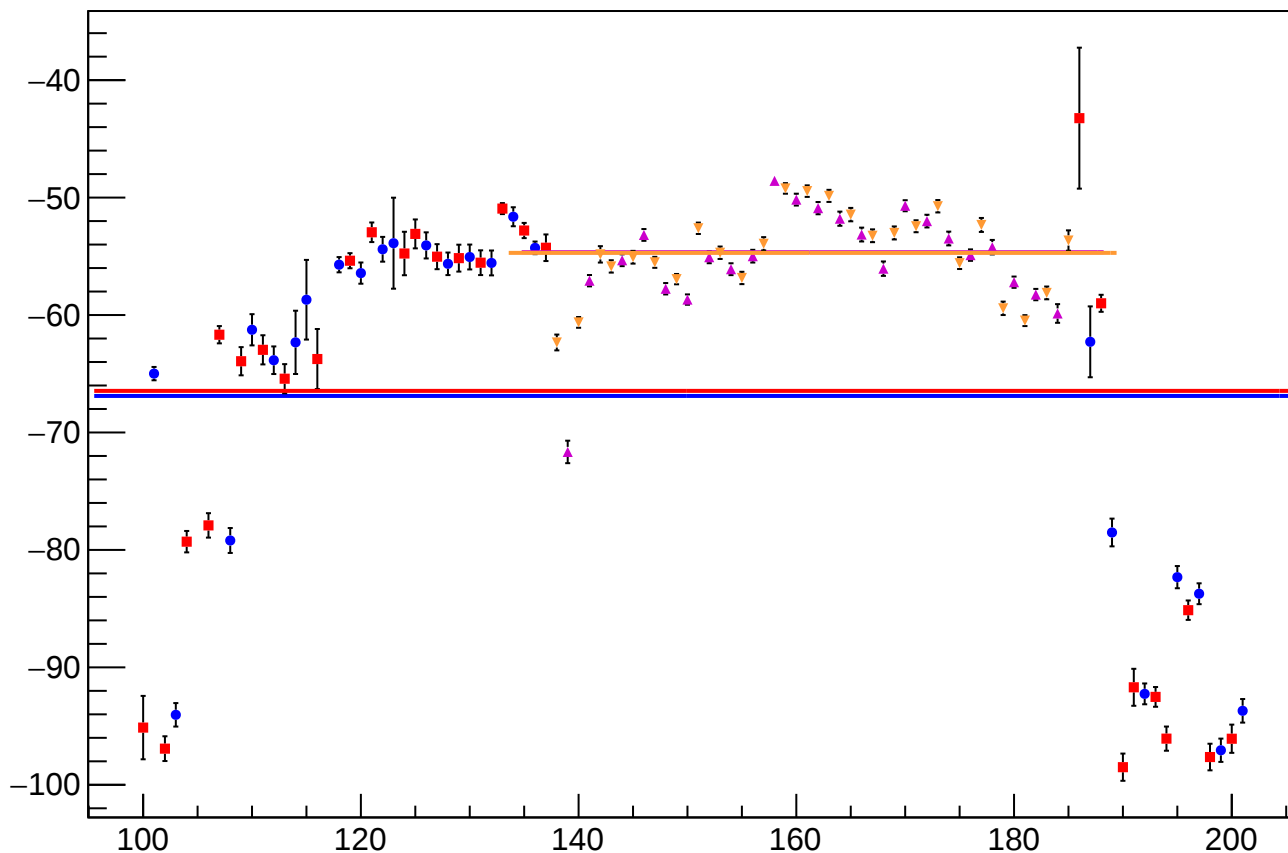
Right: -3.059 ± 0.229 χ^2/NDF : 73.4/15

In: 1.225 ± 0.127 χ^2/NDF : 1448.3/29

Out: 0.770 ± 0.121 χ^2/NDF : 1739.9/33

All: 0.987 ± 0.088 χ^2/NDF : 3194.9/63

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -66.889 ± 0.195 $\chi^2/\text{NDF}: 6093.6/23$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -66.458 ± 0.181 $\chi^2/\text{NDF}: 8822.5/27$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

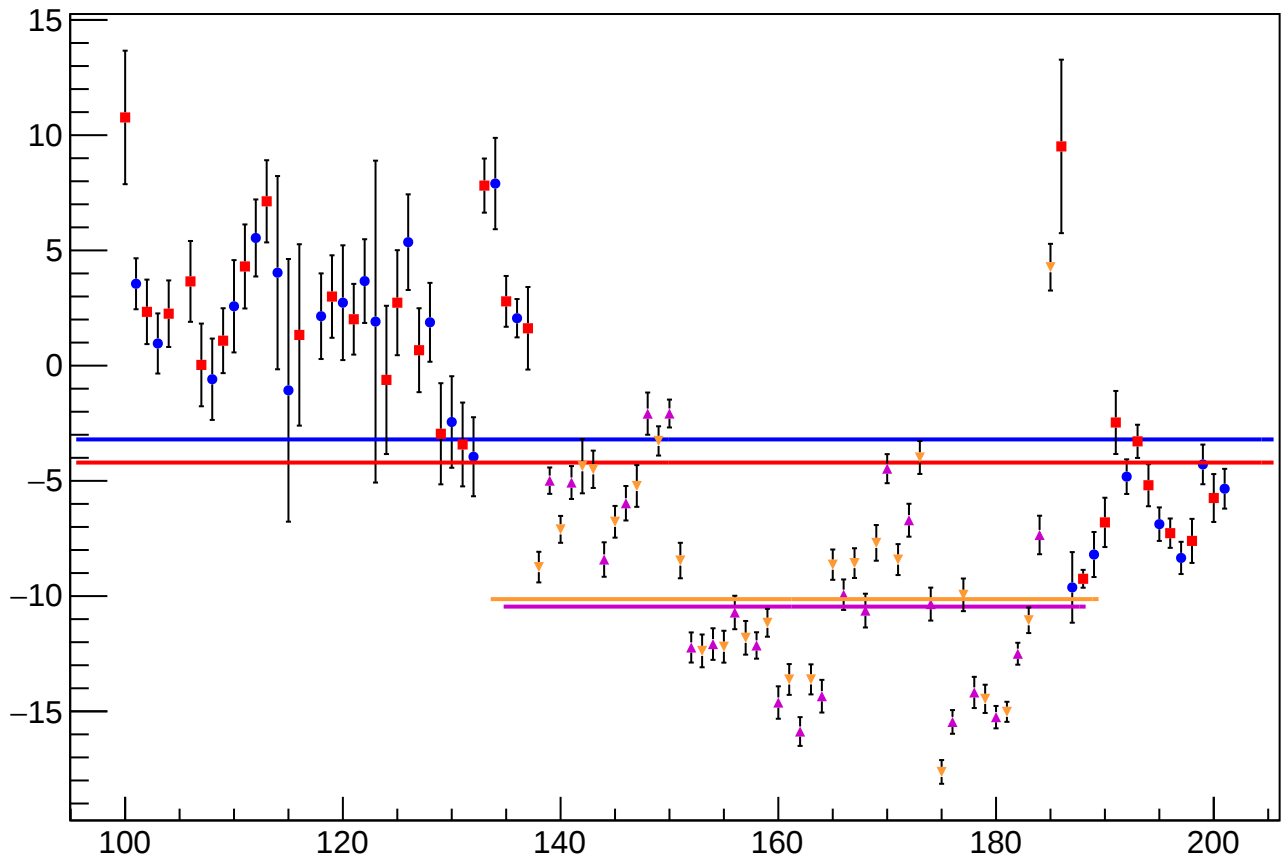
Right: -66.657 ± 0.133 $\chi^2/\text{NDF}: 14918.7/51$

In: -57.588 ± 0.096 $\chi^2/\text{NDF}: 10154.5/46$

Out: -57.700 ± 0.091 $\chi^2/\text{NDF}: 13096.9/52$

All: -57.647 ± 0.066 $\chi^2/\text{NDF}: 23252.2/99$

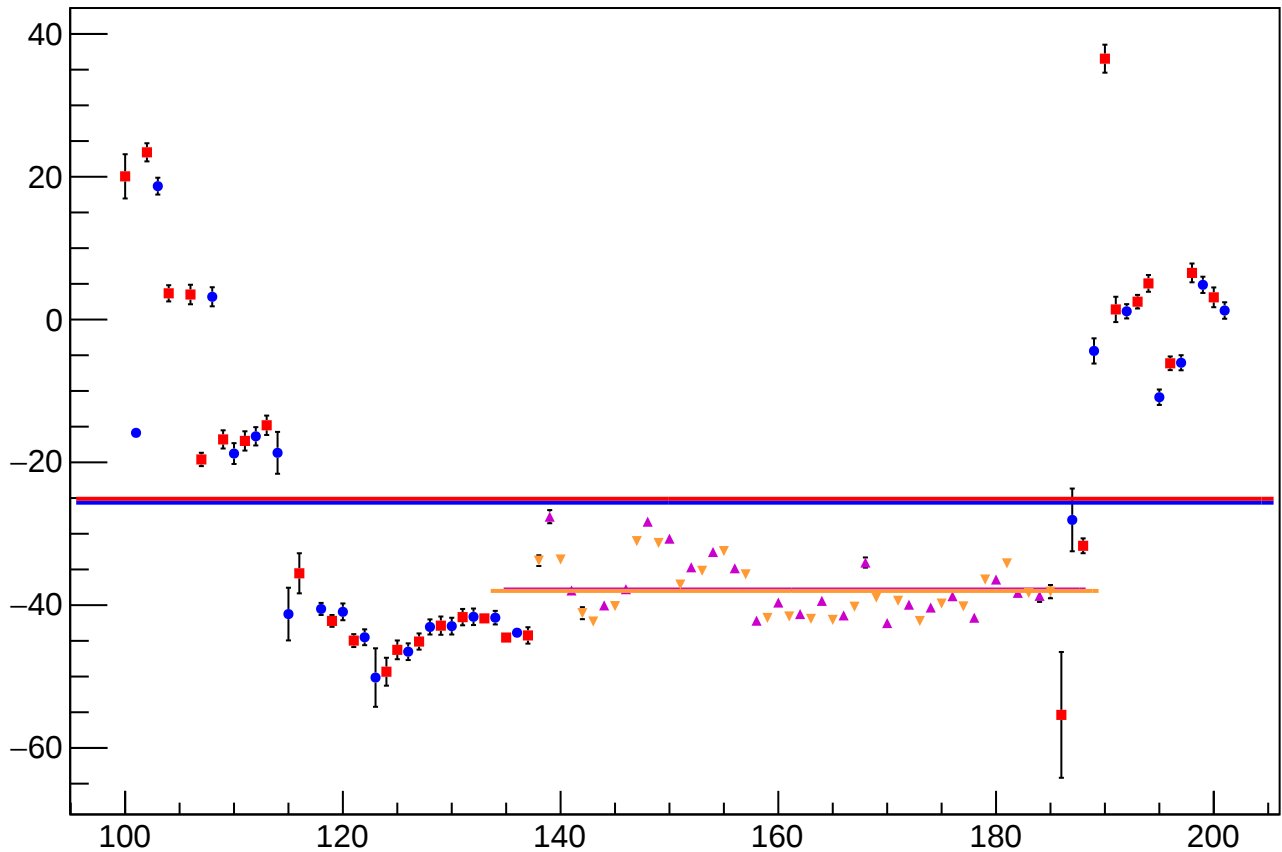
reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.202 ± 0.250 $\chi^2/\text{NDF}: 350.6/23$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -4.206 ± 0.211 $\chi^2/\text{NDF}: 609.9/27$
 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: -3.788 ± 0.162 $\chi^2/\text{NDF}: 969.9/51$
 In: -8.830 ± 0.119 $\chi^2/\text{NDF}: 2004.1/46$
 Out: -8.454 ± 0.112 $\chi^2/\text{NDF}: 2228.8/52$
 All: -8.632 ± 0.082 $\chi^2/\text{NDF}: 4238.1/99$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -25.647 ± 0.224 χ^2/NDF : 8043.7/23

Left Out: -38.006 ± 0.119 χ^2/NDF : 946.0/24

Right Out: -25.099 ± 0.212 χ^2/NDF : 11109.5/27

Left In: -37.809 ± 0.122 χ^2/NDF : 1039.9/22

Left: -37.910 ± 0.085 χ^2/NDF : 1987.2/47

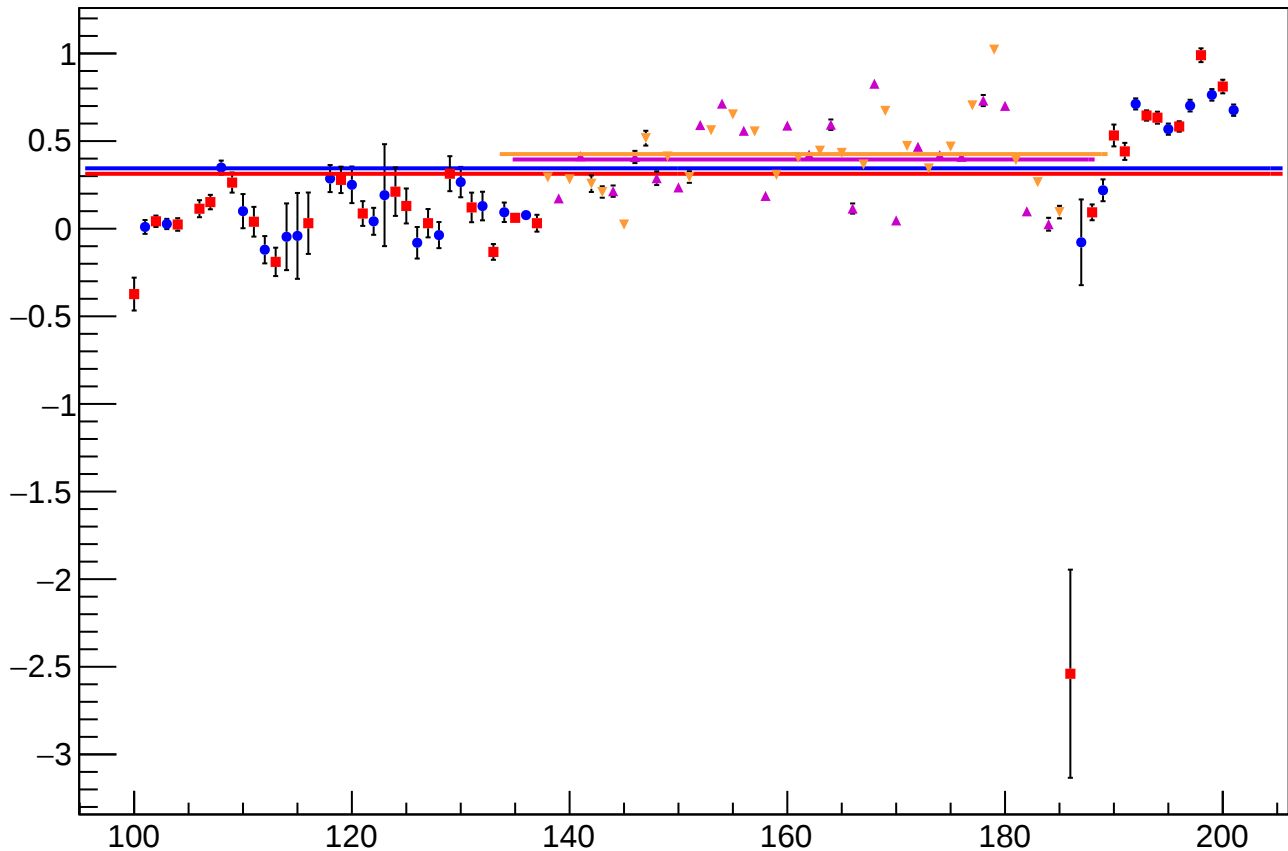
Right: -25.357 ± 0.154 χ^2/NDF : 19156.4/51

In: -35.021 ± 0.107 χ^2/NDF : 11350.7/46

Out: -34.920 ± 0.104 χ^2/NDF : 14880.5/52

All: -34.969 ± 0.075 χ^2/NDF : 26231.6/99

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.345 ± 0.009 χ^2/NDF : 1049.2/23

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.313 ± 0.009 χ^2/NDF : 1349.0/27

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

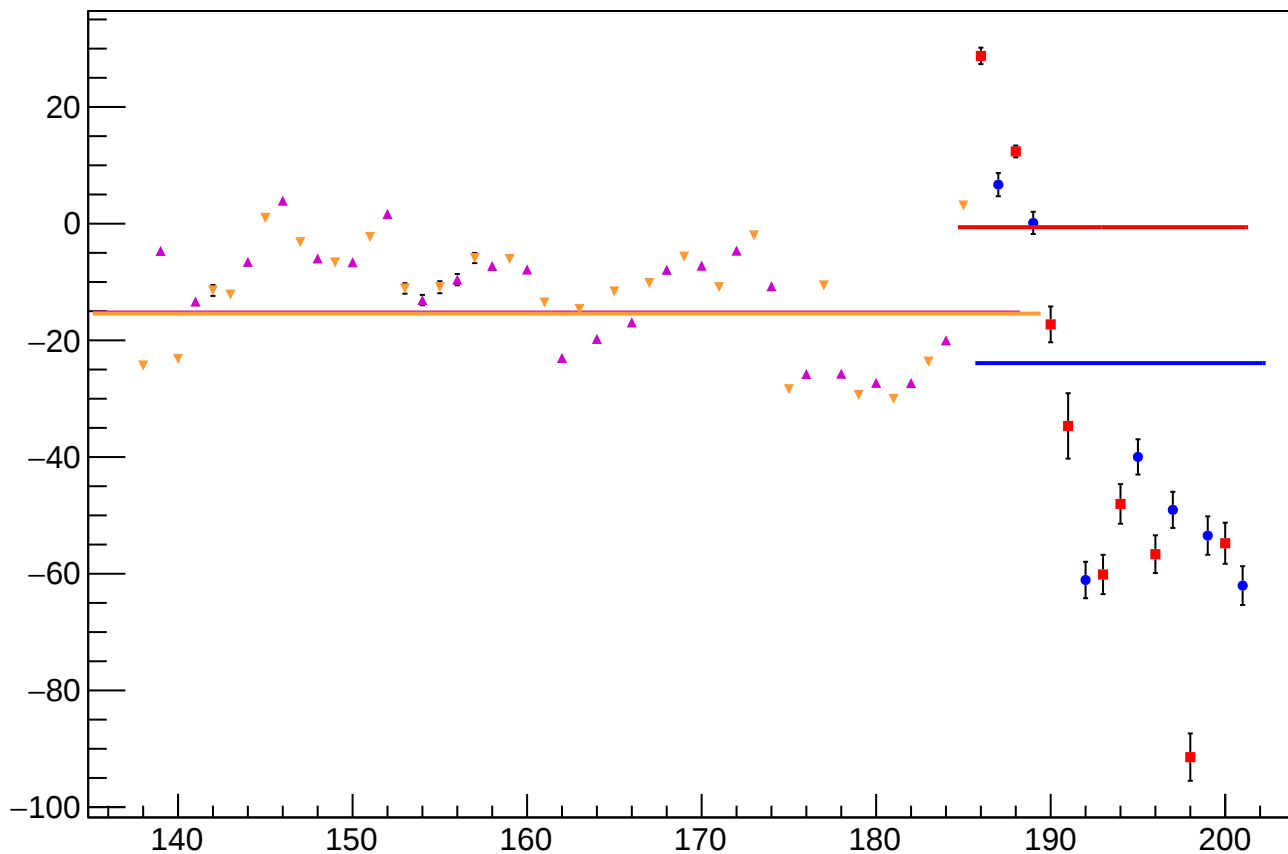
Right: 0.328 ± 0.007 χ^2/NDF : 2404.0/51

In: 0.383 ± 0.005 χ^2/NDF : 2868.8/46

Out: 0.396 ± 0.005 χ^2/NDF : 2767.9/52

All: 0.390 ± 0.003 χ^2/NDF : 5641.0/99

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.904 $\pm$ 0.986 χ^2 /NDF: 844.6/6

Left Out: -15.413 $\pm$ 0.105 χ^2 /NDF:10509.1/24

Right Out: -0.604 $\pm$ 0.702 χ^2 /NDF: 2209.5/8

Left In: -15.229 $\pm$ 0.107 χ^2 /NDF:8657.3/22

Left: -15.322 $\pm$ 0.075 χ^2 /NDF: 19167.9/47

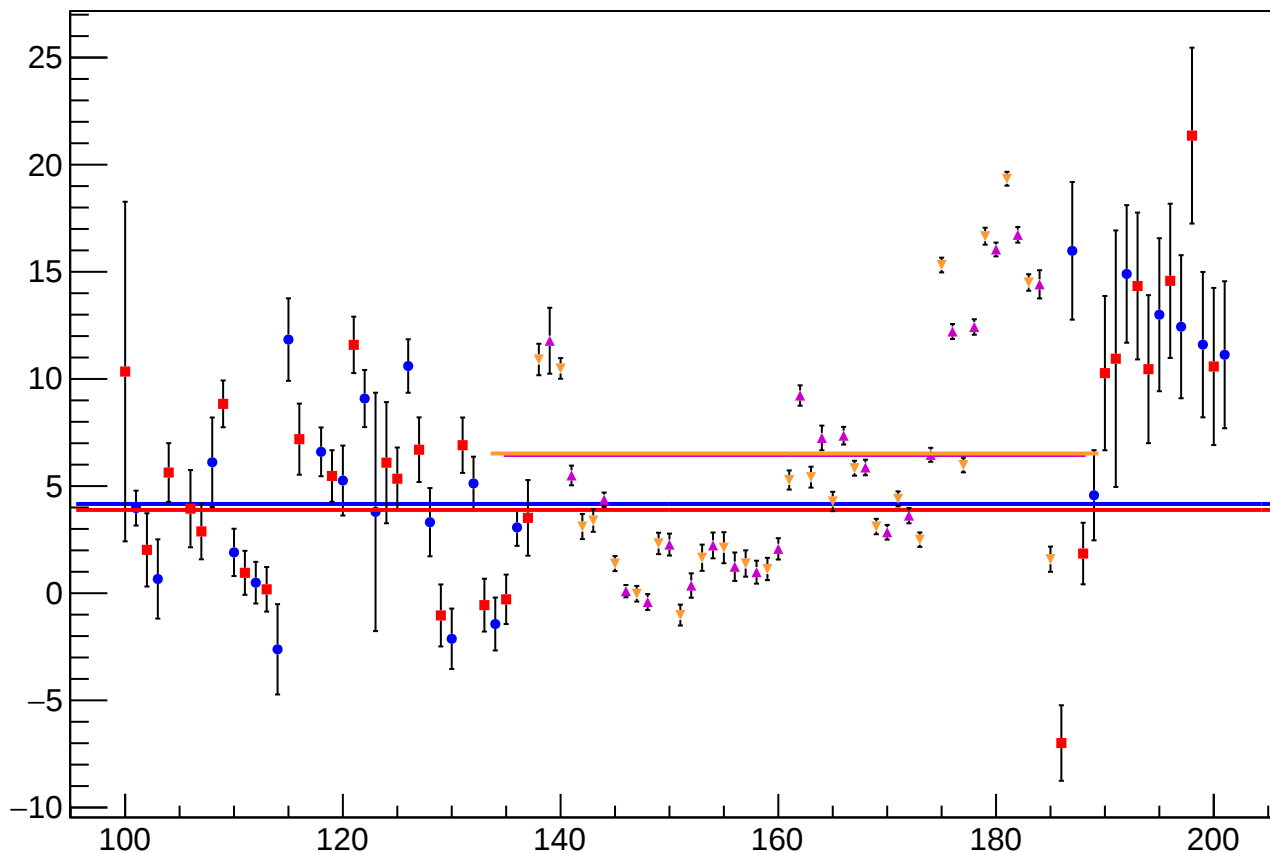
Right: -8.443 $\pm$ 0.572 χ^2 /NDF: 3424.4/15

In: -15.330 $\pm$ 0.106 χ^2 /NDF:9578.4/29

Out: -15.088 $\pm$ 0.104 χ^2 /NDF:13153.4/33

All: -15.206 $\pm$ 0.074 χ^2 /NDF: 22734.5/63

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.166 ± 0.300 χ^2/NDF : 183.4/23

Left Out: 6.521 ± 0.085 χ^2/NDF : 4985.2/24

Right Out: 3.887 ± 0.298 χ^2/NDF : 221.5/27

Left In: 6.452 ± 0.086 χ^2/NDF : 3948.0/22

Left: 6.487 ± 0.061 χ^2/NDF : 8933.5/47

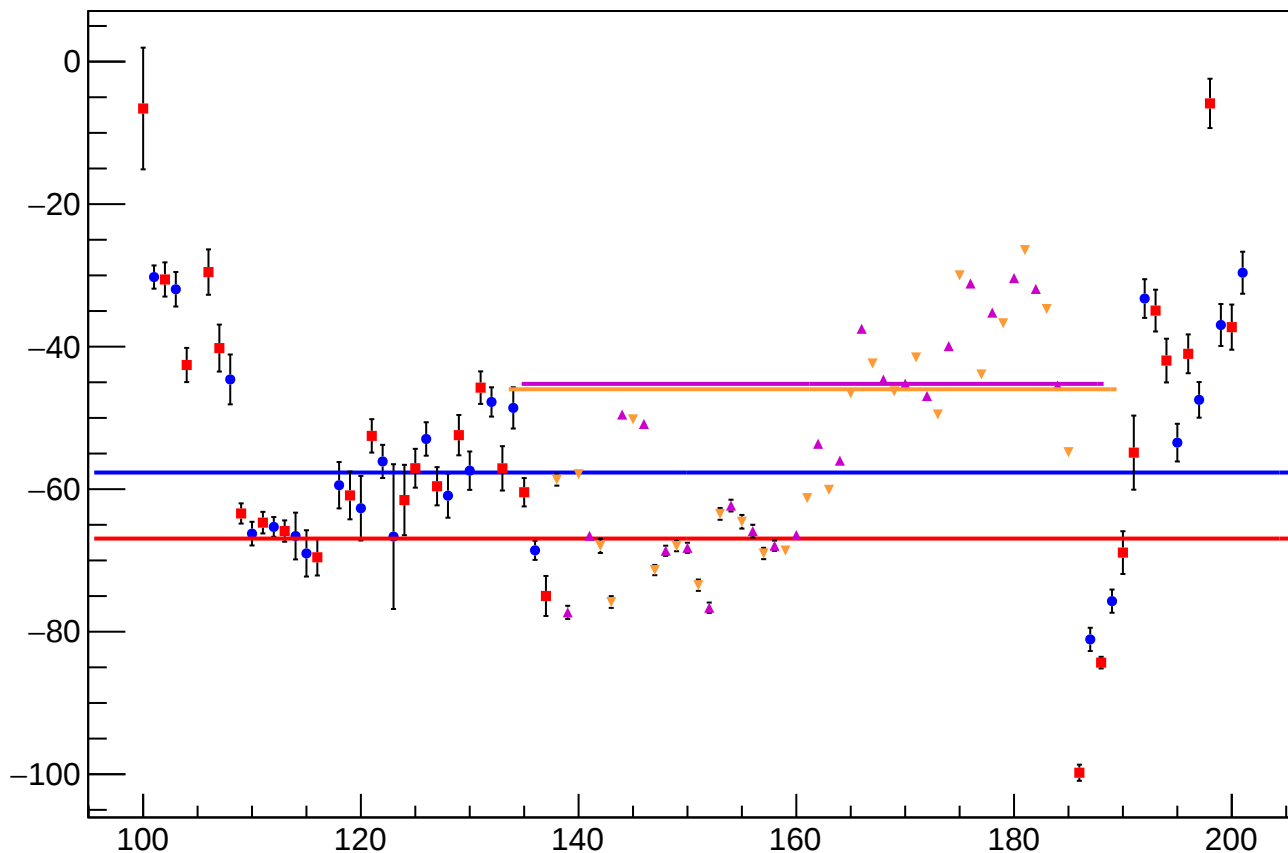
Right: 4.026 ± 0.211 χ^2/NDF : 405.4/51

In: 6.278 ± 0.083 χ^2/NDF : 4185.1/46

Out: 6.321 ± 0.082 χ^2/NDF : 5278.9/52

All: 6.300 ± 0.058 χ^2/NDF : 9464.1/99

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.664 ± 0.457 $\chi^2/\text{NDF}: 1161.9/23$

Left Out: -45.982 ± 0.106 $\chi^2/\text{NDF}: 17360.1/24$

Right Out: -66.930 ± 0.394 $\chi^2/\text{NDF}: 2778.0/27$

Left In: -45.222 ± 0.107 $\chi^2/\text{NDF}: 15600.2/22$

Left: -45.605 ± 0.075 $\chi^2/\text{NDF}: 32985.7/47$

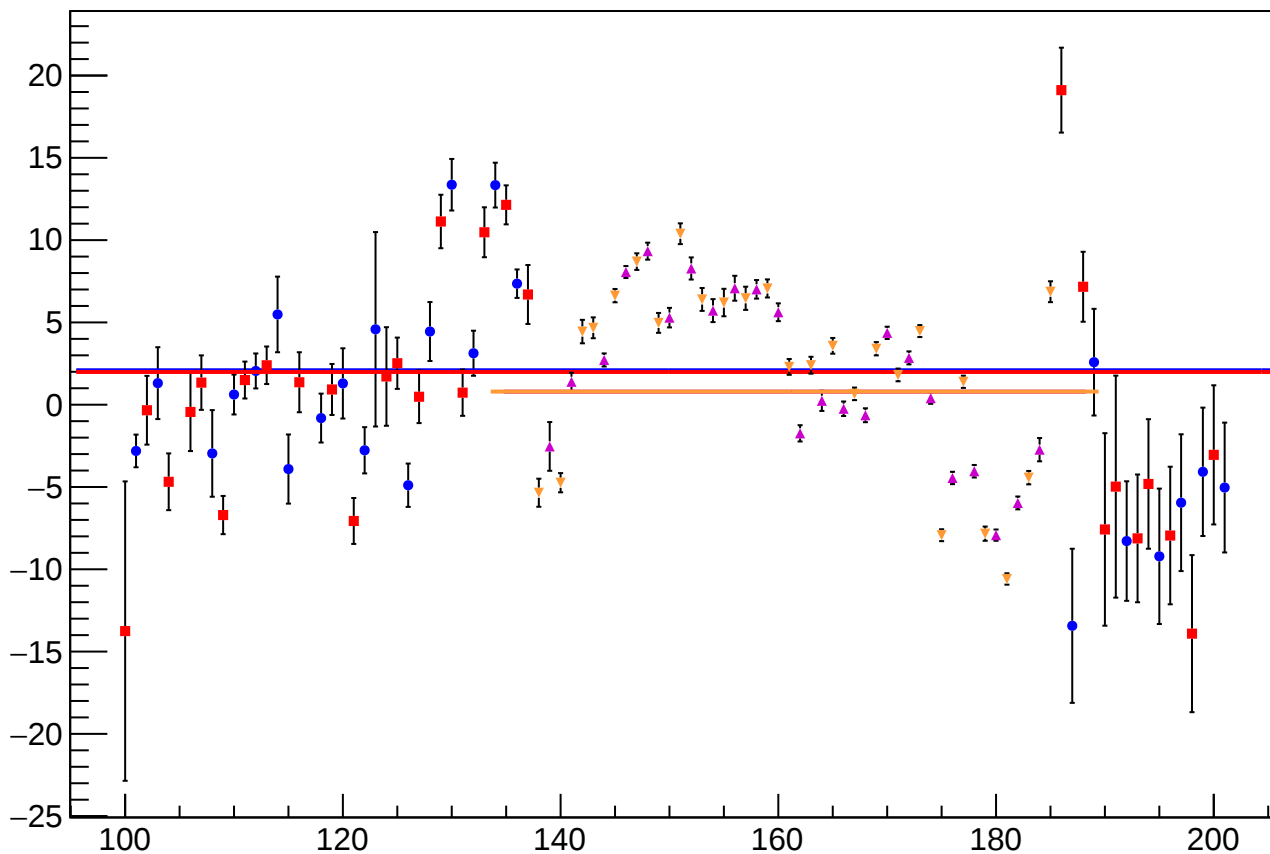
Right: -62.974 ± 0.298 $\chi^2/\text{NDF}: 4175.8/51$

In: -45.872 ± 0.104 $\chi^2/\text{NDF}: 17466.0/46$

Out: -47.401 ± 0.103 $\chi^2/\text{NDF}: 22771.5/52$

All: -46.650 ± 0.073 $\chi^2/\text{NDF}: 40346.7/99$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.092 $\pm$ 0.338 χ^2 /NDF: 279.9/23

Left Out: 0.797 $\pm$ 0.096 χ^2 /NDF: 3760.0/24

Right Out: 1.990 $\pm$ 0.341 χ^2 /NDF: 346.3/27

Left In: 0.792 $\pm$ 0.097 χ^2 /NDF: 2692.5/22

Left: 0.795 $\pm$ 0.068 χ^2 /NDF: 6452.5/47

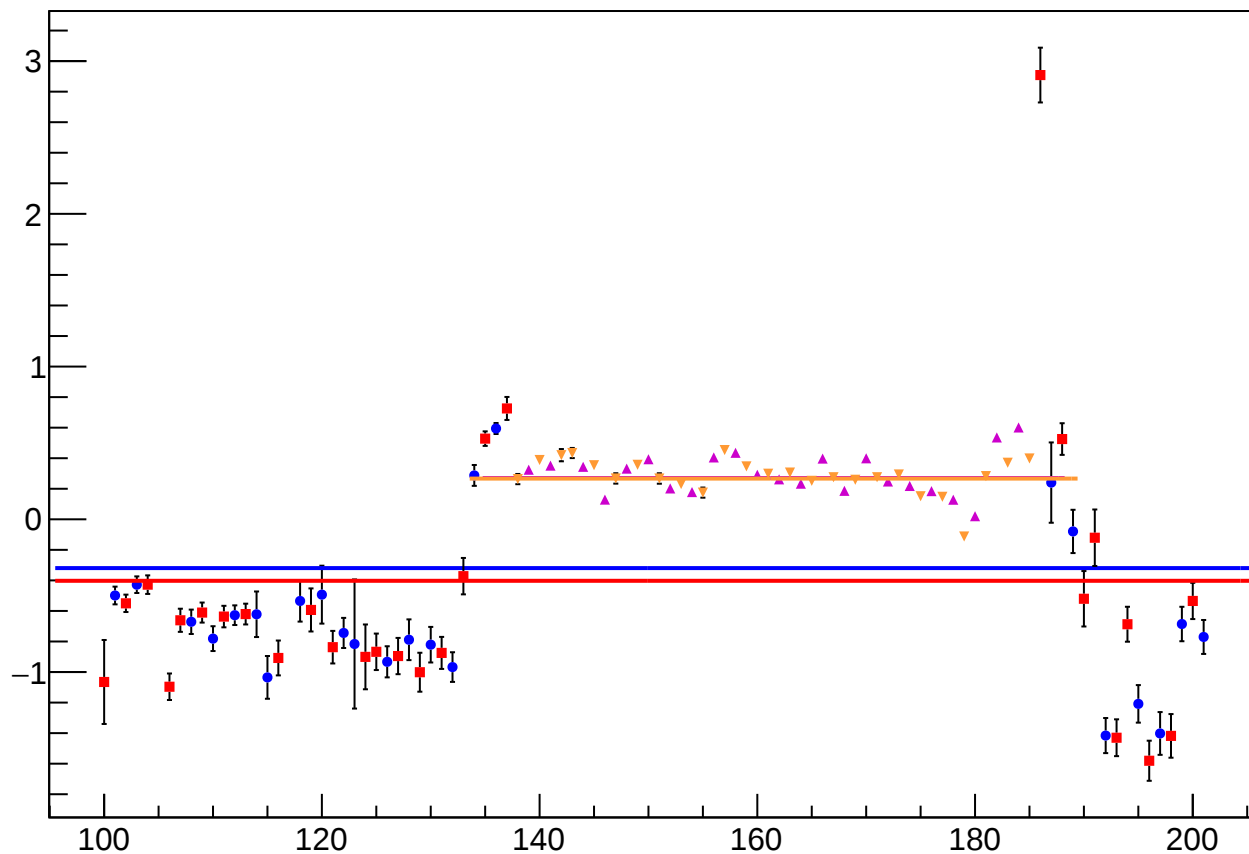
Right: 2.041 $\pm$ 0.240 χ^2 /NDF: 626.3/51

In: 0.890 $\pm$ 0.093 χ^2 /NDF: 2986.1/46

Out: 0.884 $\pm$ 0.092 χ^2 /NDF: 4117.6/52

All: 0.887 $\pm$ 0.065 χ^2 /NDF: 7103.7/99

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.319 ± 0.018 χ^2/NDF : 1215.6/23

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.403 ± 0.017 χ^2/NDF : 1479.8/27

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

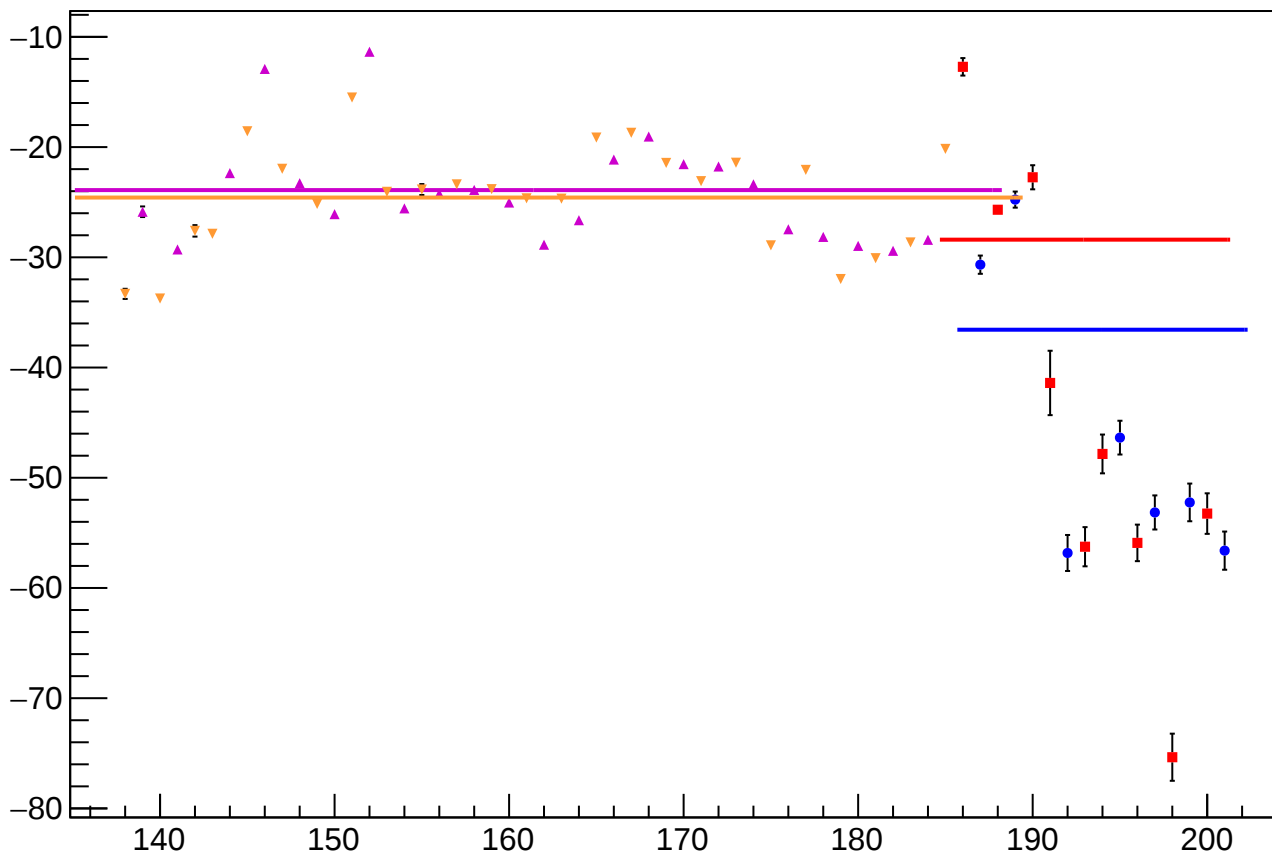
Right: -0.361 ± 0.012 χ^2/NDF : 2706.6/51

In: 0.235 ± 0.004 χ^2/NDF : 3235.8/46

Out: 0.227 ± 0.004 χ^2/NDF : 3560.6/52

All: 0.231 ± 0.003 χ^2/NDF : 6798.2/99

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -36.569 ± 0.437 $\chi^2/\text{NDF}: 839.6/6$
 Left Out: -24.577 ± 0.051 $\chi^2/\text{NDF}: 8590.4/24$
 Right Out: -28.398 ± 0.325 $\chi^2/\text{NDF}: 1784.6/8$
 Left In: -23.901 ± 0.051 $\chi^2/\text{NDF}: 9154.9/22$

Left: -24.240 ± 0.036 $\chi^2/\text{NDF}: 17833.1/47$

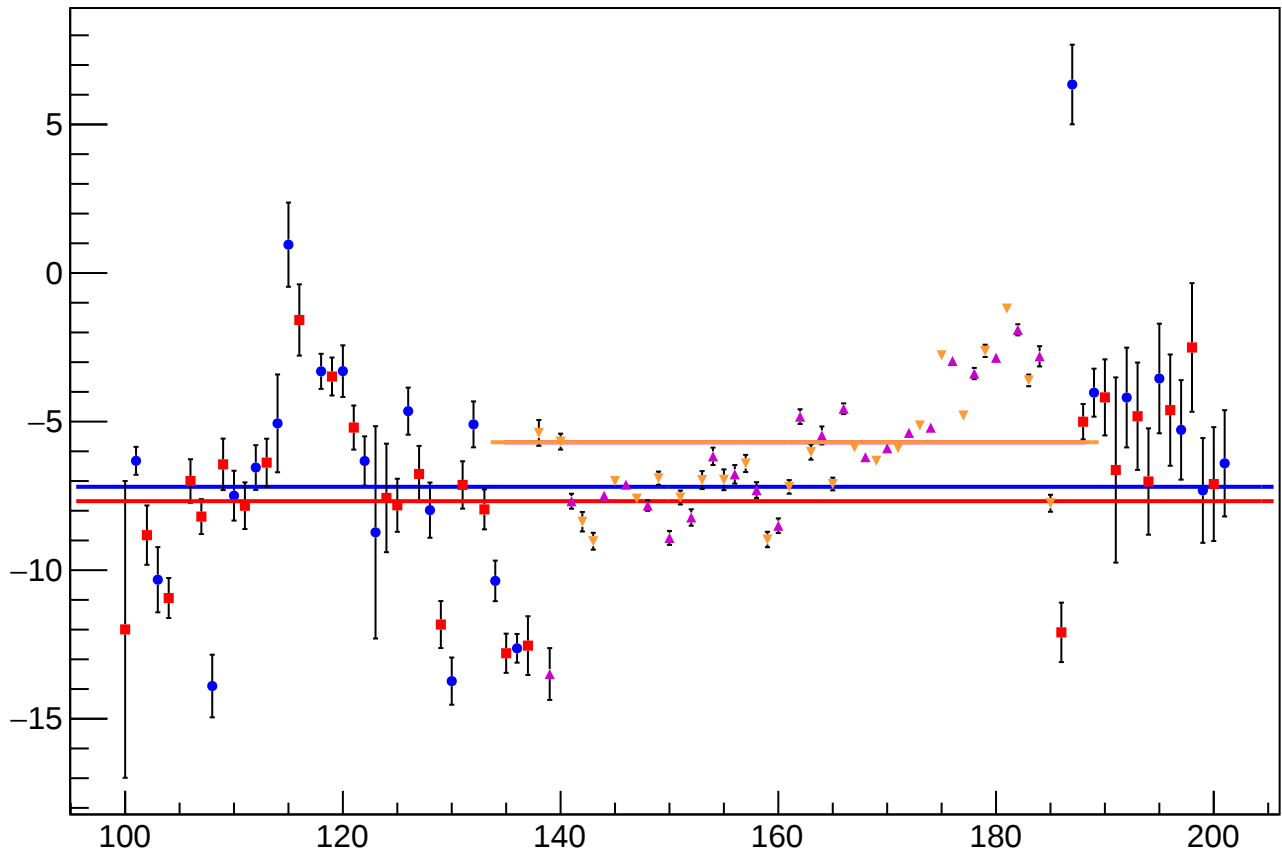
Right: -31.309 ± 0.261 $\chi^2/\text{NDF}: 2848.9/15$

In: -24.072 ± 0.051 $\chi^2/\text{NDF}: 10822.2/29$

Out: -24.669 ± 0.050 $\chi^2/\text{NDF}: 10509.7/33$

All: -24.373 ± 0.036 $\chi^2/\text{NDF}: 21401.7/63$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.194 ± 0.176 χ^2/NDF : 512.5/23

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.677 ± 0.170 χ^2/NDF : 284.1/27

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

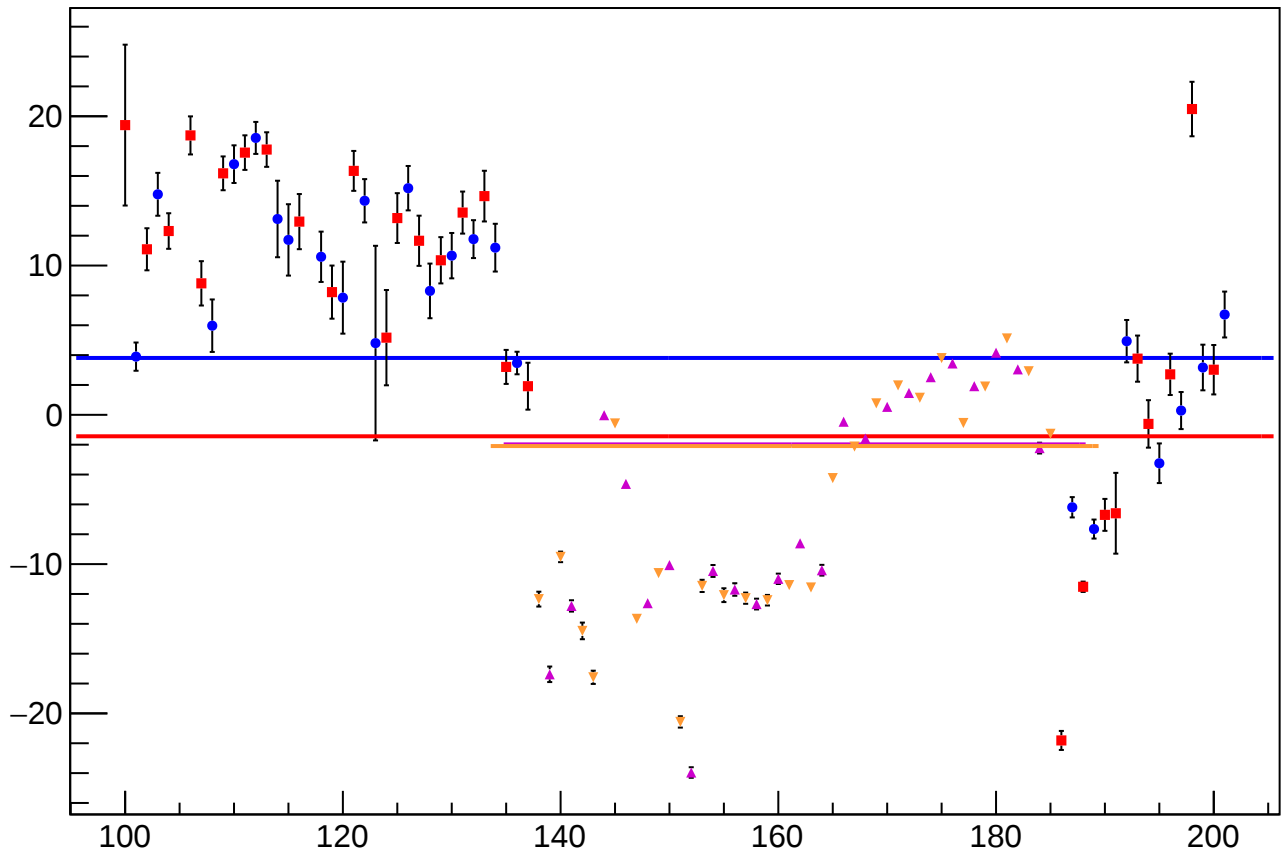
Right: -7.445 ± 0.122 χ^2/NDF : 800.5/51

In: -5.772 ± 0.040 χ^2/NDF : 2890.9/46

Out: -5.804 ± 0.040 χ^2/NDF : 2671.7/52

All: -5.788 ± 0.028 χ^2/NDF : 5562.9/99

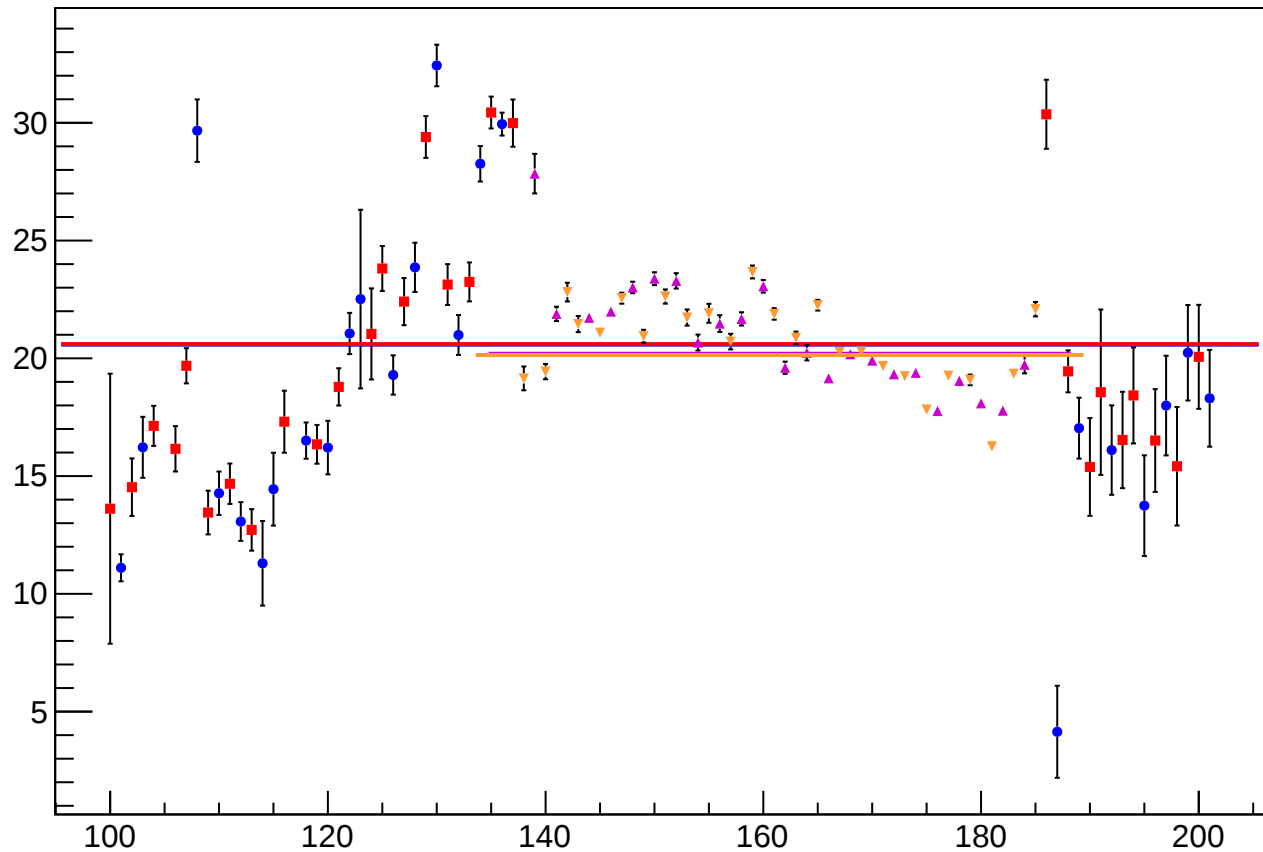
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 3.810 ± 0.251 $\chi^2/\text{NDF}: 1177.7/23$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -1.438 ± 0.209 $\chi^2/\text{NDF}: 4073.0/27$
 Left In: -1.980 ± 0.051 $\chi^2/\text{NDF}: 15382.3/22$

Left: -2.036 ± 0.036 $\chi^2/\text{NDF}: 31690.0/47$
 Right: 0.718 ± 0.161 $\chi^2/\text{NDF}: 5508.9/51$
 In: -1.748 ± 0.050 $\chi^2/\text{NDF}: 17072.4/46$
 Out: -2.055 ± 0.050 $\chi^2/\text{NDF}: 20387.5/52$
 All: -1.902 ± 0.035 $\chi^2/\text{NDF}: 37478.6/99$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.582 $\pm$ 0.202 χ^2 /NDF: 1311.1/23

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.602 $\pm$ 0.200 χ^2 /NDF: 787.4/27

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

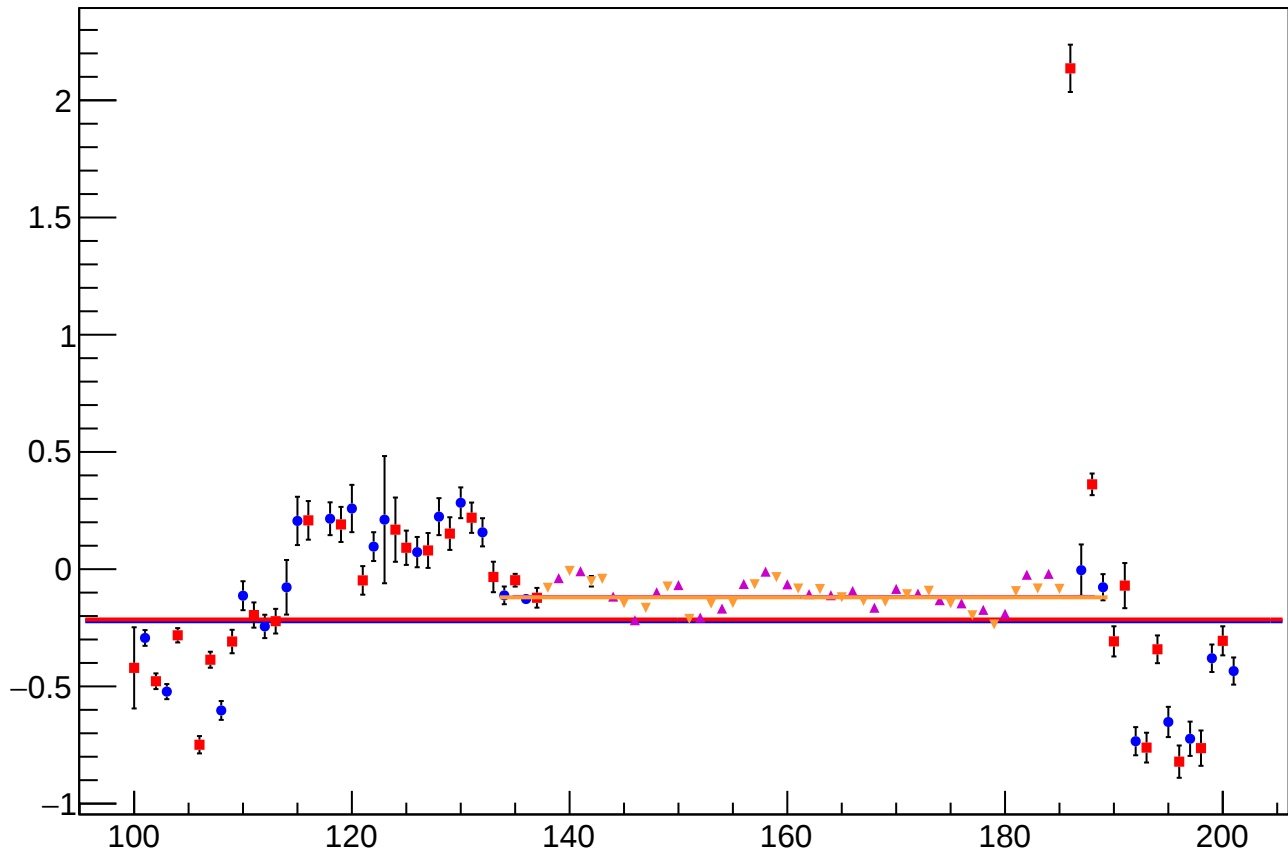
Right: 20.592 $\pm$ 0.142 χ^2 /NDF: 2098.4/51

In: 20.213 $\pm$ 0.045 χ^2 /NDF:2761.9/46

Out: 20.164 $\pm$ 0.045 χ^2 /NDF:2211.5/52

All: 20.189 $\pm$ 0.032 χ^2 /NDF: 4974.1/99

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.222 ± 0.010 χ^2/NDF : 672.0/23

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.215 ± 0.010 χ^2/NDF : 1447.5/27

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

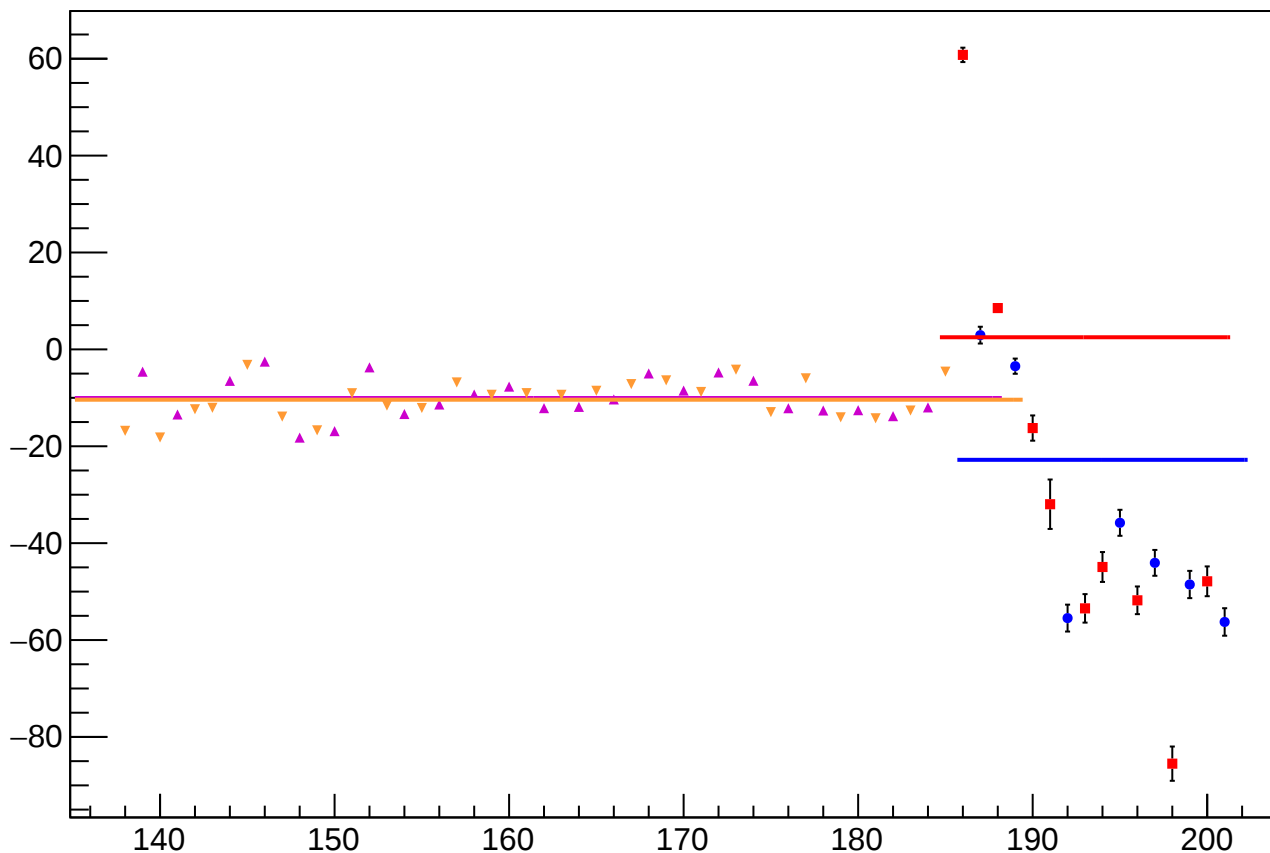
Right: -0.218 ± 0.007 χ^2/NDF : 2119.8/51

In: -0.123 ± 0.002 χ^2/NDF : 1492.8/46

Out: -0.124 ± 0.002 χ^2/NDF : 2066.7/52

All: -0.124 ± 0.001 χ^2/NDF : 3559.7/99

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected

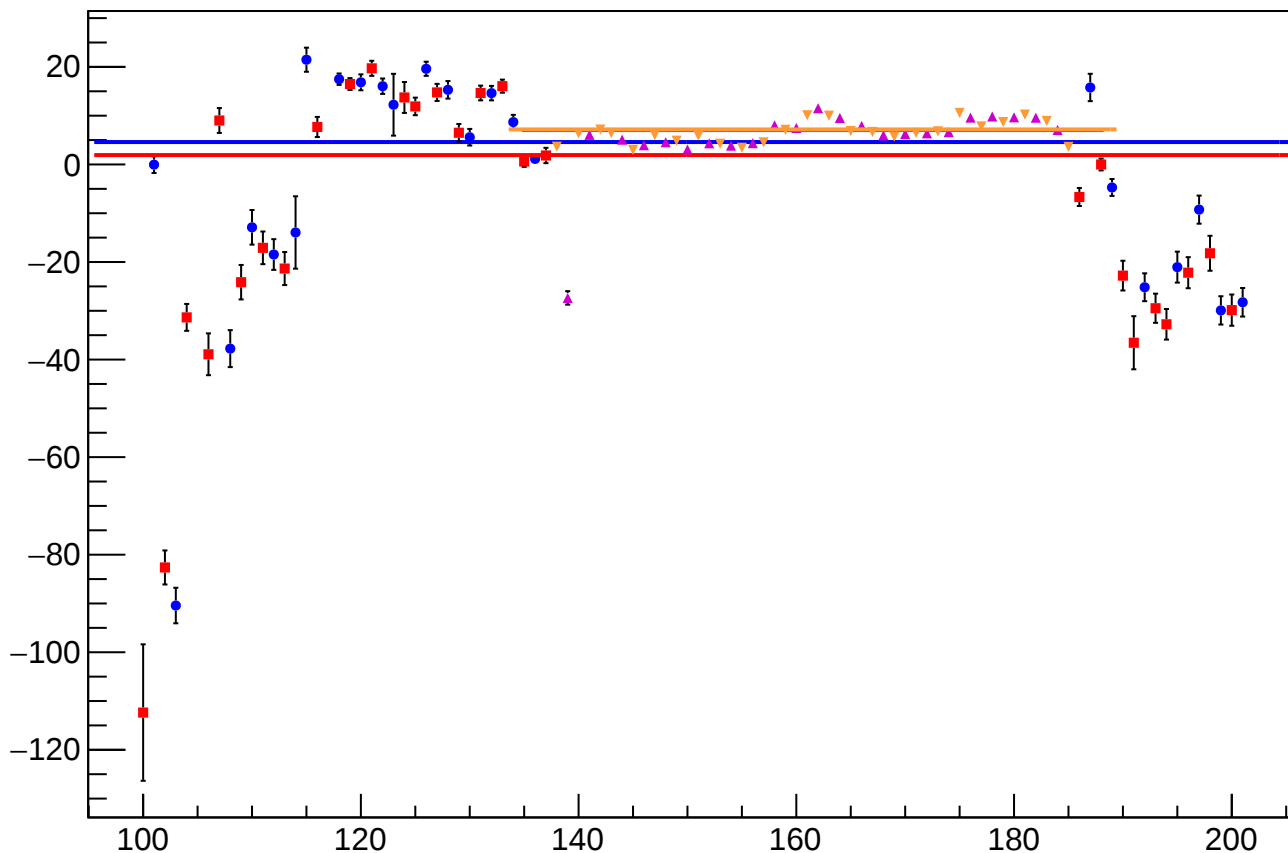


Right In: -22.798 ± 0.845 $\chi^2/\text{NDF}: 821.0/6$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: 2.502 ± 0.630 $\chi^2/\text{NDF}: 3530.8/8$
 Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$
 Right: -6.528 ± 0.505 $\chi^2/\text{NDF}: 4928.0/15$
 In: -10.177 ± 0.089 $\chi^2/\text{NDF}: 2805.1/29$
 Out: -10.145 ± 0.087 $\chi^2/\text{NDF}: 6053.6/33$

All: -10.161 ± 0.062 $\chi^2/\text{NDF}: 8858.8/63$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.595 $\pm$ 0.376 χ^2 /NDF: 1900.2/23

Left Out: 7.184 $\pm$ 0.073 χ^2 /NDF: 917.3/24

Right Out: 1.924 $\pm$ 0.381 χ^2 /NDF: 2162.4/27

Left In: 7.053 $\pm$ 0.074 χ^2 /NDF: 1535.8/22

Left: 7.119 $\pm$ 0.052 χ^2 /NDF: 2454.8/47

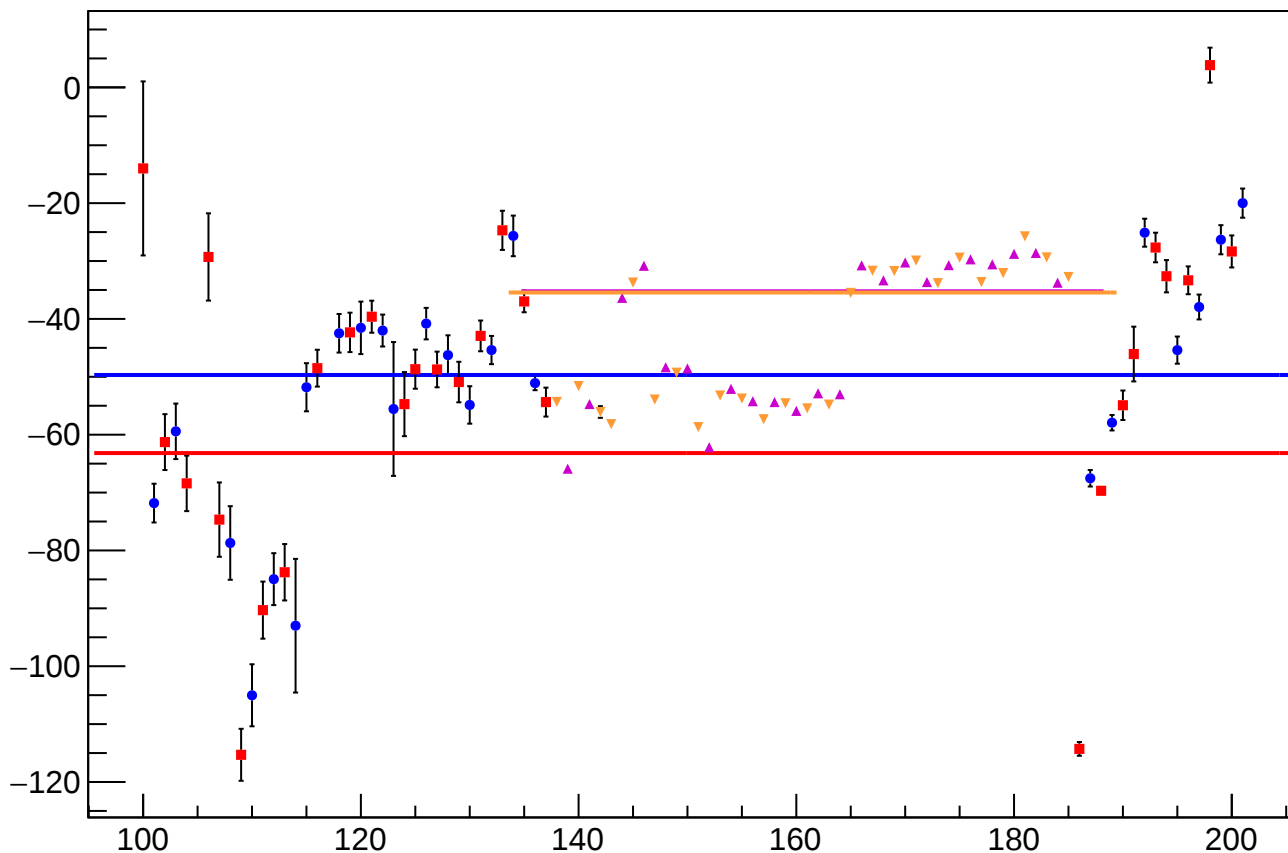
Right: 3.277 $\pm$ 0.268 χ^2 /NDF: 4087.4/51

In: 6.961 $\pm$ 0.073 χ^2 /NDF: 3477.1/46

Out: 6.996 $\pm$ 0.072 χ^2 /NDF: 3263.4/52

All: 6.978 $\pm$ 0.051 χ^2 /NDF: 6740.6/99

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -49.685 ± 0.516 χ^2/NDF : 890.3/23
 Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24
 Right Out: -63.175 ± 0.436 χ^2/NDF : 3881.4/27
 Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

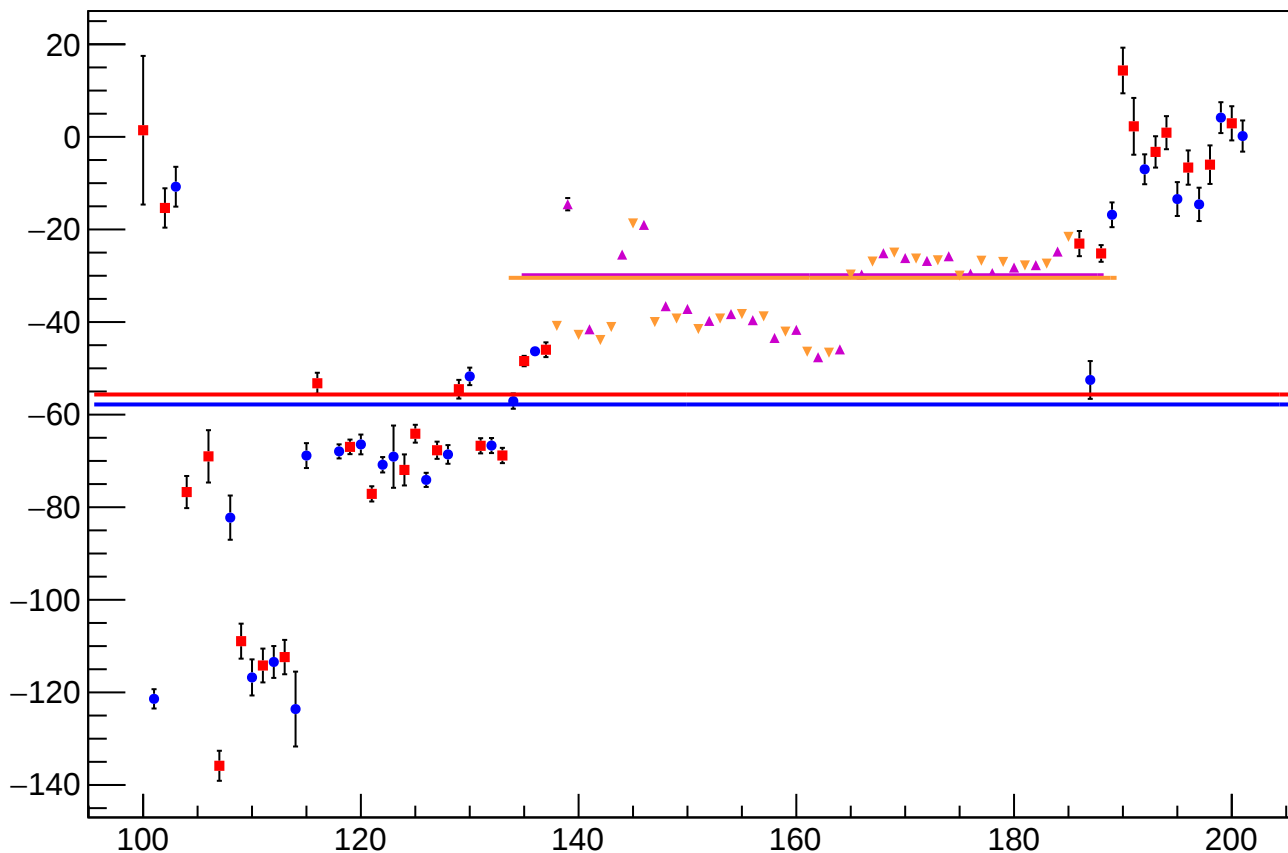
Right: -57.549 ± 0.333 χ^2/NDF : 5170.1/51

In: -35.657 ± 0.089 χ^2/NDF : 13255.1/46

Out: -36.542 ± 0.087 χ^2/NDF : 20543.3/52

All: -36.107 ± 0.062 χ^2/NDF : 33848.9/99

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -57.803 ± 0.423 $\chi^2/\text{NDF}: 3583.3/23$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -55.649 ± 0.441 $\chi^2/\text{NDF}: 3721.0/27$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

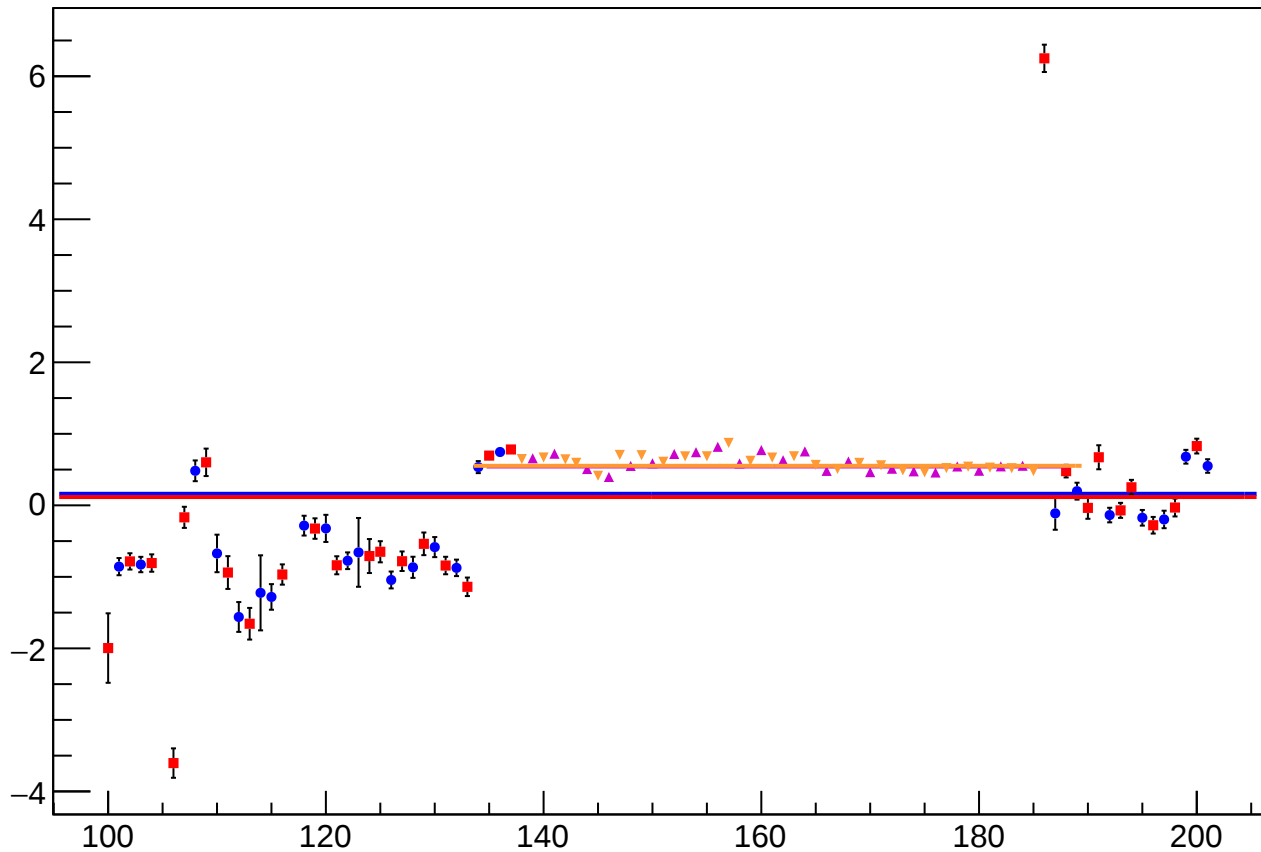
Right: -56.769 ± 0.305 $\chi^2/\text{NDF}: 7316.7/51$

In: -30.915 ± 0.081 $\chi^2/\text{NDF}: 14886.2/46$

Out: -31.282 ± 0.080 $\chi^2/\text{NDF}: 15052.5/52$

All: -31.101 ± 0.057 $\chi^2/\text{NDF}: 29949.1/99$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.161 $\pm$ 0.021 χ^2 /NDF: 1061.1/23

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.116 $\pm$ 0.022 χ^2 /NDF: 2327.4/27

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

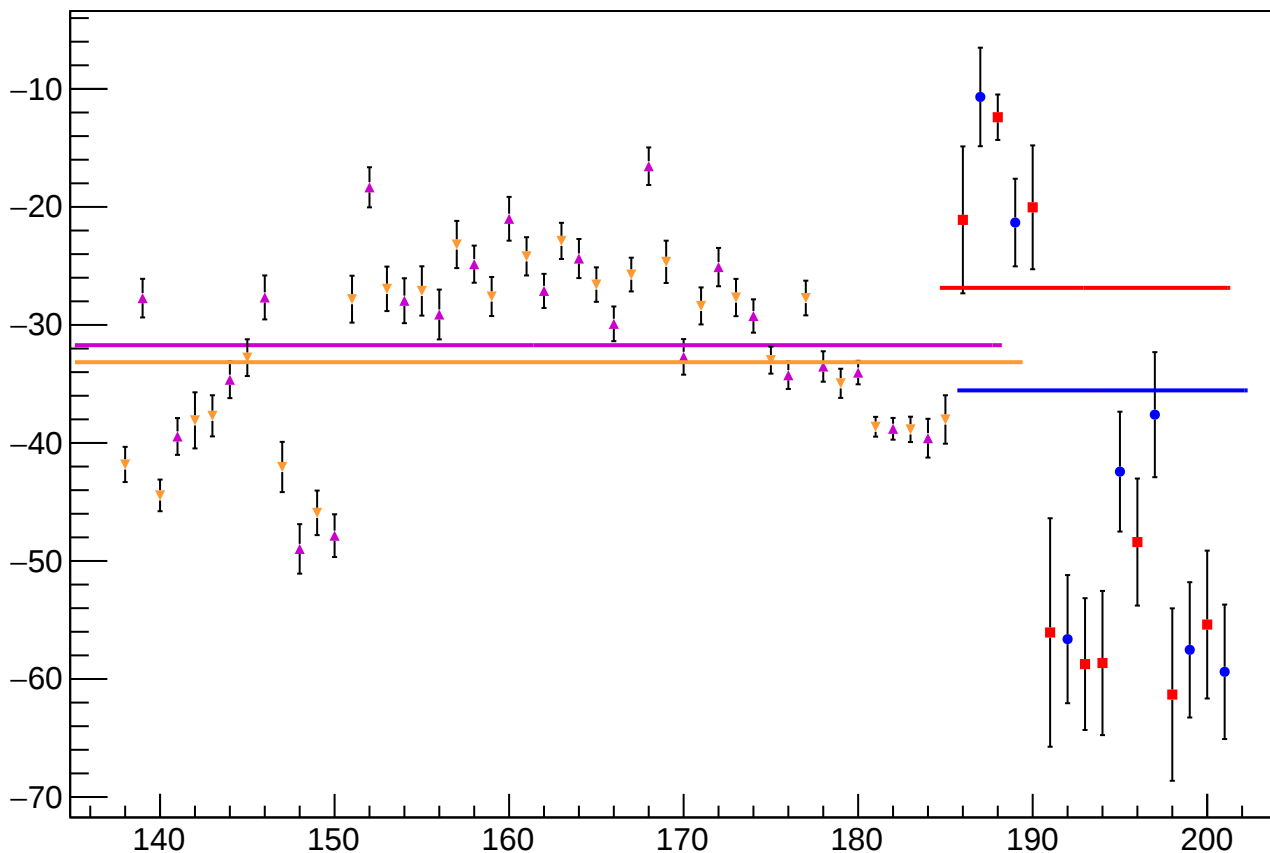
Right: 0.140 $\pm$ 0.015 χ^2 /NDF: 3390.8/51

In: 0.532 $\pm$ 0.004 χ^2 /NDF:2040.1/46

Out: 0.541 $\pm$ 0.004 χ^2 /NDF:3257.2/52

All: 0.536 $\pm$ 0.003 χ^2 /NDF: 5300.3/99

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -35.547 ± 1.827 $\chi^2/\text{NDF}: 99.4/6$

Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$

Right Out: -26.858 ± 1.443 $\chi^2/\text{NDF}: 186.8/8$

Left In: -31.714 ± 0.309 $\chi^2/\text{NDF}: 542.3/22$

Left: -32.456 ± 0.215 $\chi^2/\text{NDF}: 1053.6/47$

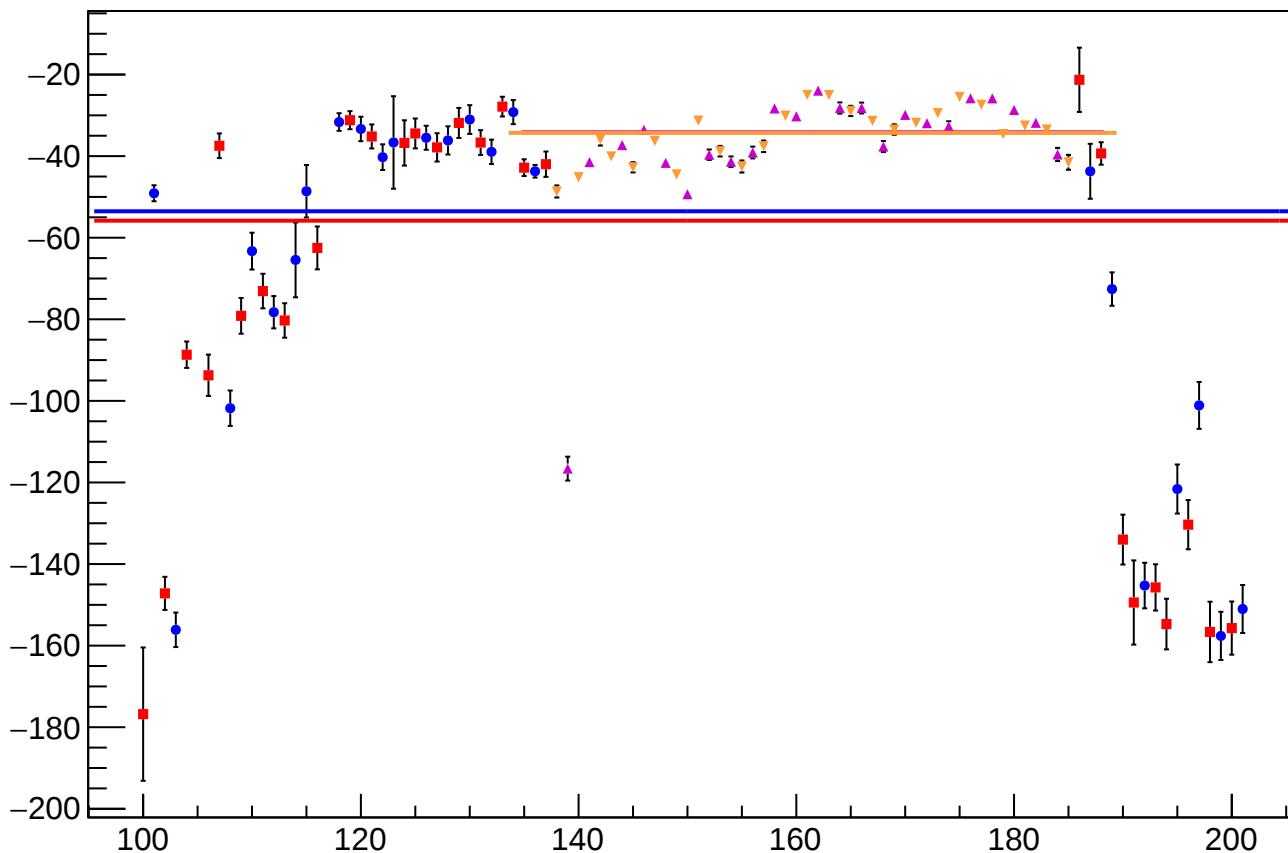
Right: -30.194 ± 1.132 $\chi^2/\text{NDF}: 300.2/15$

In: -31.821 ± 0.305 $\chi^2/\text{NDF}: 646.0/29$

Out: -32.895 ± 0.294 $\chi^2/\text{NDF}: 705.2/33$

All: -32.377 ± 0.212 $\chi^2/\text{NDF}: 1357.6/63$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -53.518 ± 0.690 $\chi^2/\text{NDF}: 2242.0/23$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -55.822 ± 0.703 $\chi^2/\text{NDF}: 2737.7/27$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

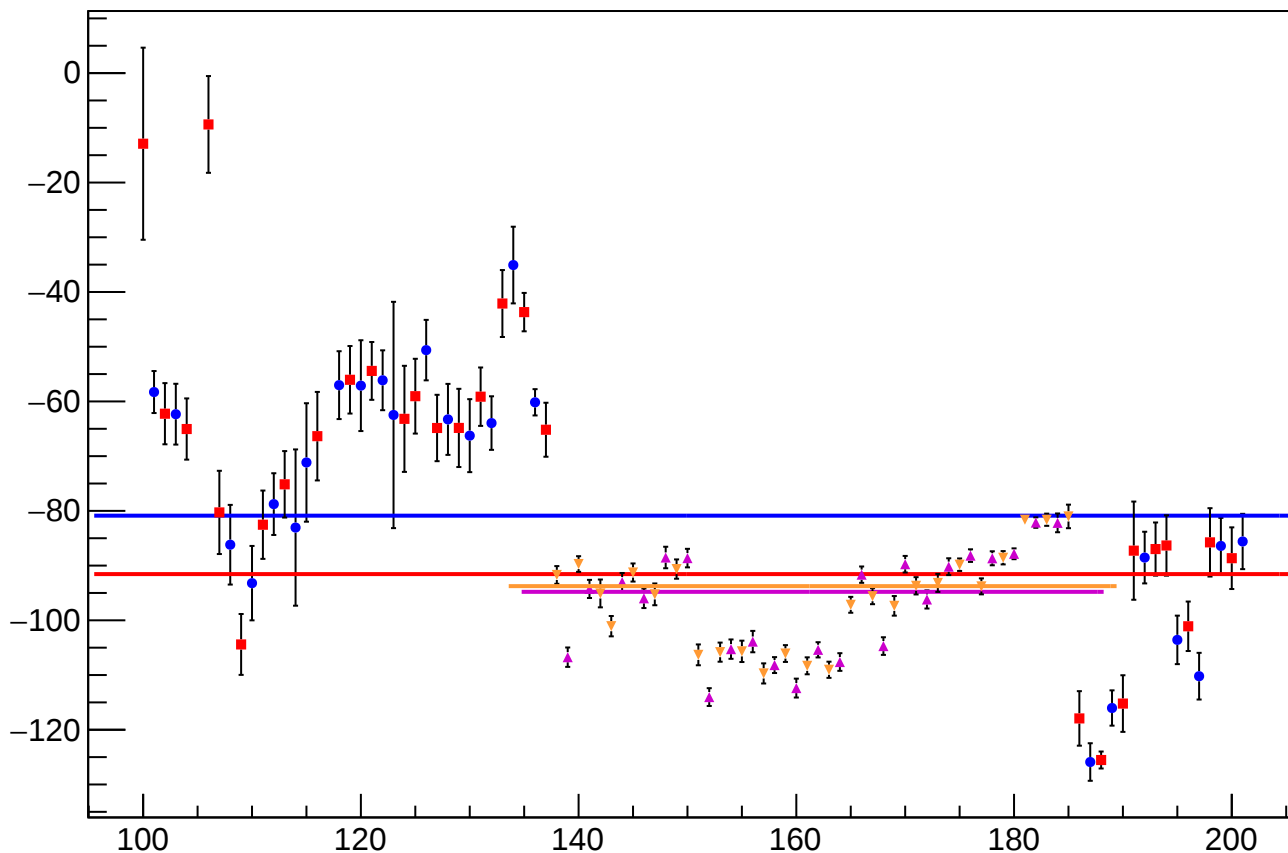
Right: -54.647 ± 0.492 $\chi^2/\text{NDF}: 4985.1/51$

In: -36.408 ± 0.236 $\chi^2/\text{NDF}: 4391.7/46$

Out: -36.558 ± 0.228 $\chi^2/\text{NDF}: 4271.5/52$

All: -36.485 ± 0.164 $\chi^2/\text{NDF}: 8663.4/99$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -80.875 ± 1.007 χ^2/NDF : 635.2/23

Left Out: -93.754 ± 0.302 χ^2/NDF : 883.1/24

Right Out: -91.553 ± 0.909 χ^2/NDF : 1183.7/27

Left In: -94.796 ± 0.308 χ^2/NDF : 974.7/22

Left: -94.264 ± 0.216 χ^2/NDF : 1863.6/47

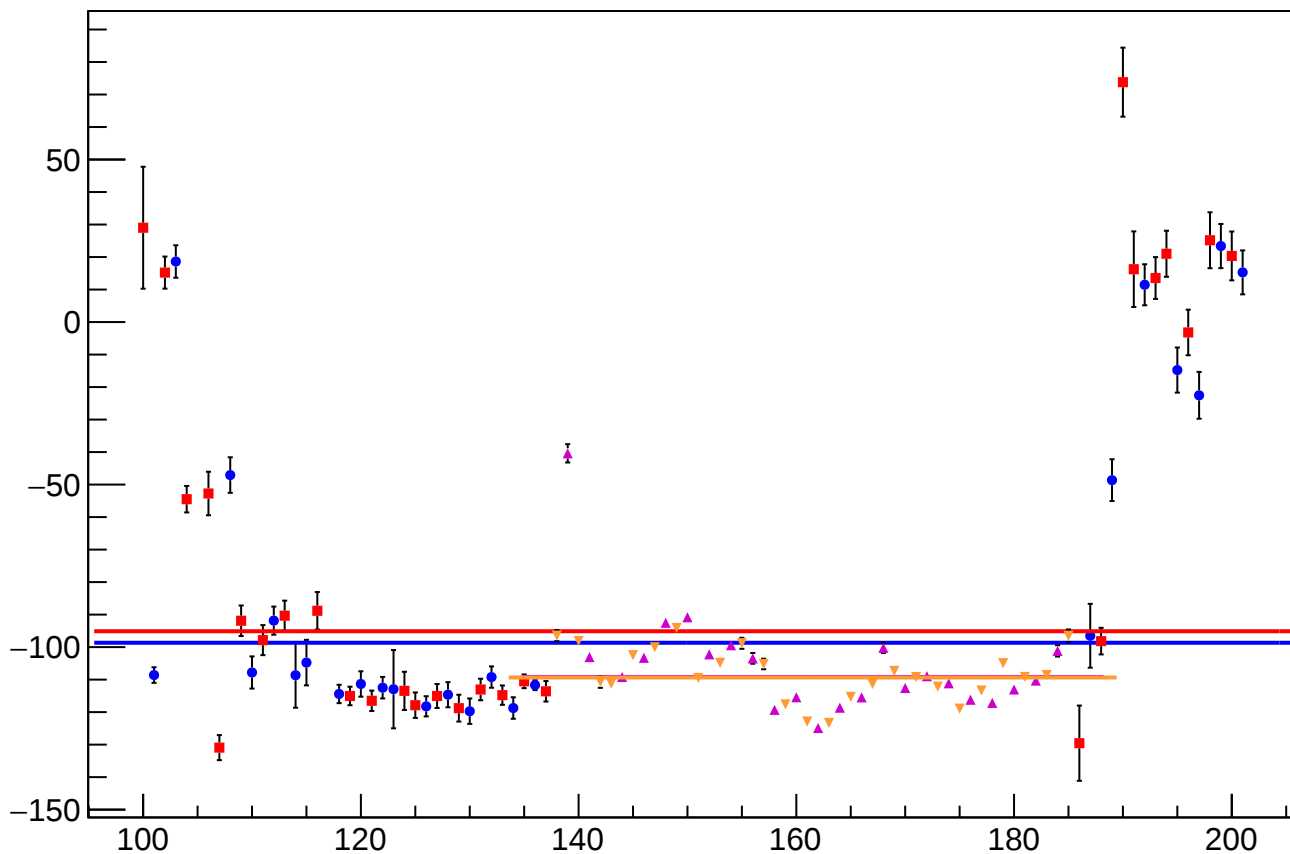
Right: -86.760 ± 0.675 χ^2/NDF : 1880.9/51

In: -93.603 ± 0.295 χ^2/NDF : 1784.5/46

Out: -93.536 ± 0.286 χ^2/NDF : 2072.1/52

All: -93.568 ± 0.205 χ^2/NDF : 3856.6/99

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -98.660 ± 0.782 χ^2/NDF : 2158.6/23

Left Out: -109.351 ± 0.271 χ^2/NDF : 826.8/24

Right Out: -95.121 ± 0.810 χ^2/NDF : 2646.8/27

Left In: -109.184 ± 0.280 χ^2/NDF : 1501.1/22

Left: -109.270 ± 0.195 χ^2/NDF : 2328.1/47

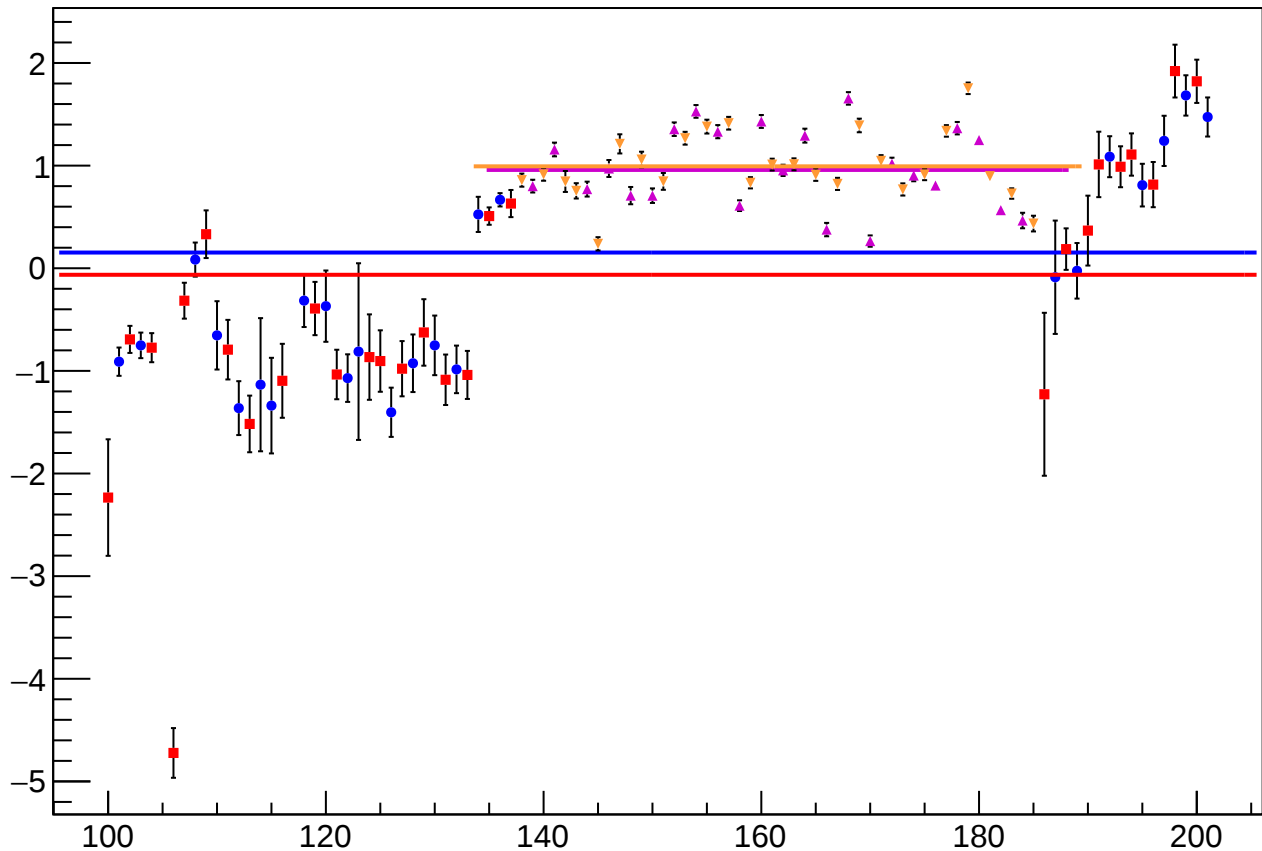
Right: -96.954 ± 0.563 χ^2/NDF : 4815.2/51

In: -107.988 ± 0.264 χ^2/NDF : 3820.4/46

Out: -107.918 ± 0.257 χ^2/NDF : 3751.0/52

All: -107.952 ± 0.184 χ^2/NDF : 7571.4/99

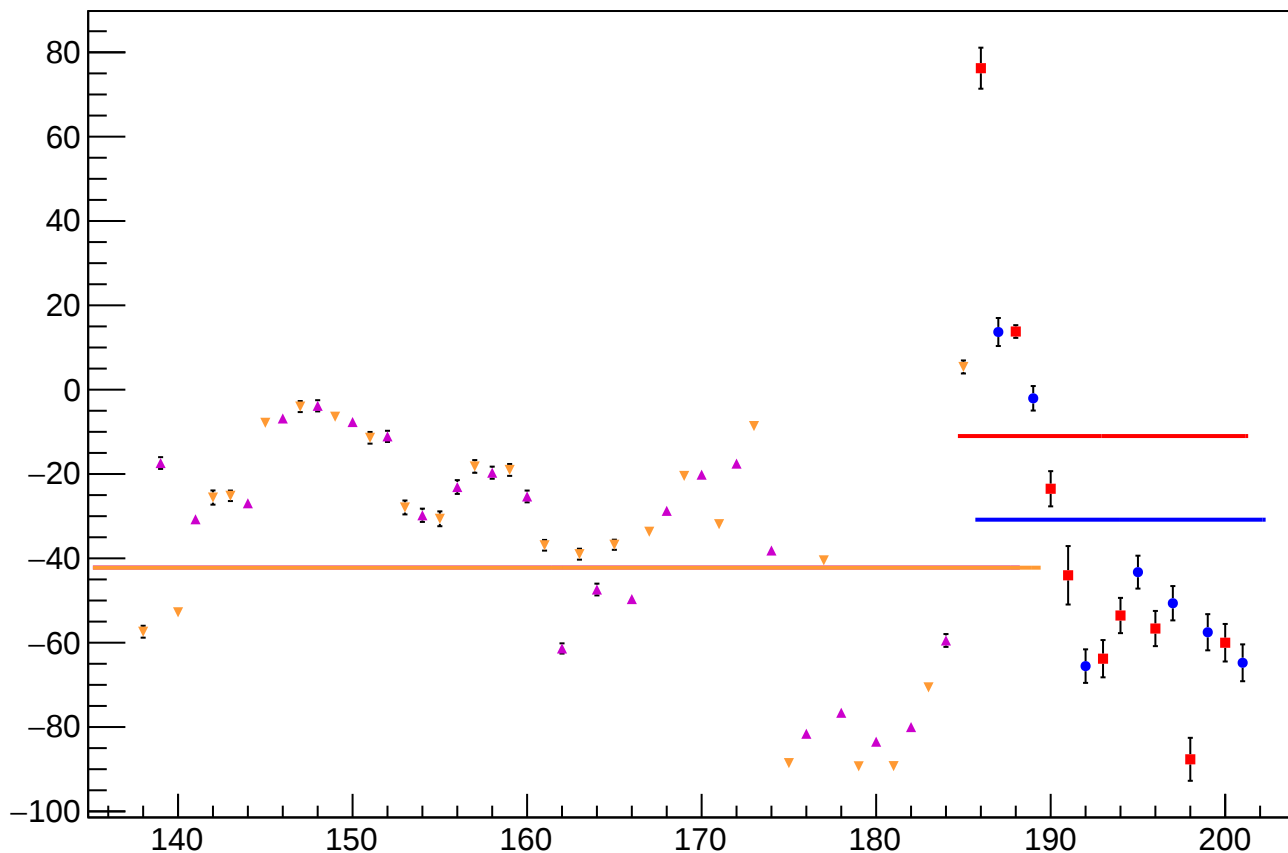
reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



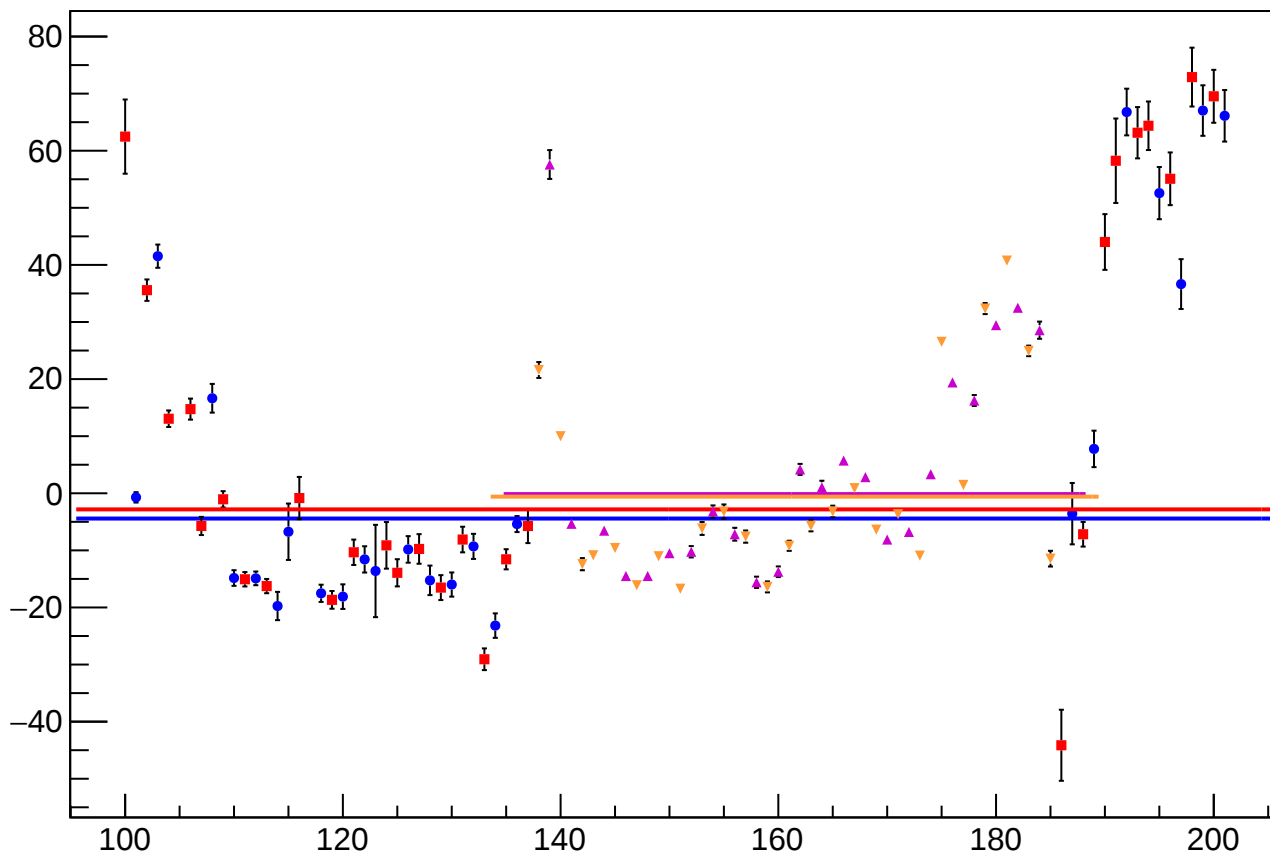
Right In: 0.153 ± 0.038 χ^2/NDF : 519.7/23
 Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24
 Right Out: -0.064 ± 0.039 χ^2/NDF : 864.1/27
 Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47
 Right: 0.047 ± 0.027 χ^2/NDF : 1399.8/51
 In: 0.877 ± 0.012 χ^2/NDF : 1819.0/46
 Out: 0.895 ± 0.012 χ^2/NDF : 2177.9/52
 All: 0.886 ± 0.008 χ^2/NDF : 3997.9/99

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected

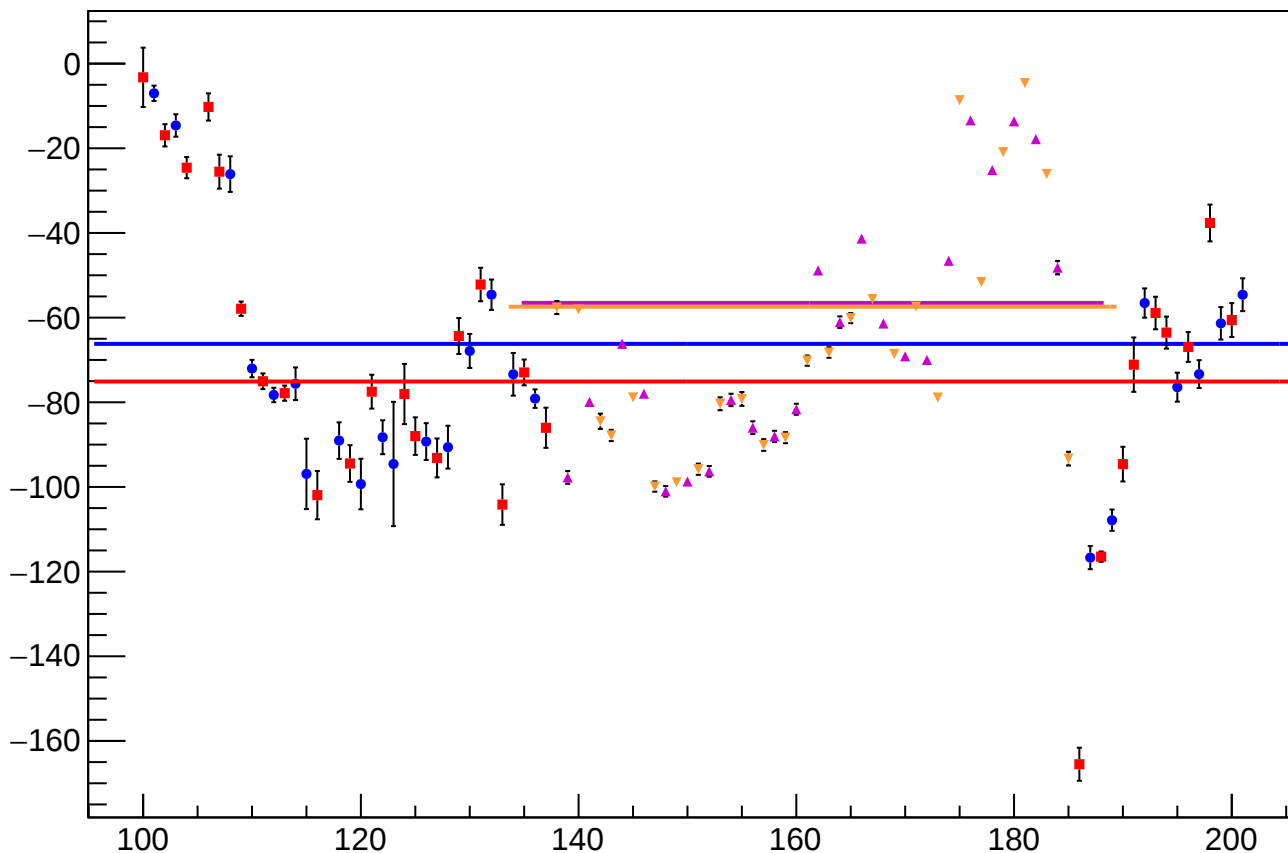


Right In: -4.426 ± 0.416 $\chi^2/\text{NDF}: 2099.3/23$
 Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$
 Right Out: -2.820 ± 0.410 $\chi^2/\text{NDF}: 2642.4/27$
 Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$
 Right: -3.611 ± 0.292 $\chi^2/\text{NDF}: 4749.3/51$
 In: -0.812 ± 0.165 $\chi^2/\text{NDF}: 9051.3/46$
 Out: -0.932 ± 0.160 $\chi^2/\text{NDF}: 11418.5/52$

All: -0.874 ± 0.115 $\chi^2/\text{NDF}: 20470.1/99$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.204+/-0.635 χ^2/NDF : 2448.1/23

Left Out: -57.413+/-0.223 χ^2/NDF :18604.1/24

Right Out: -75.096+/-0.562 χ^2/NDF : 3645.3/27

Left In: -56.519+/-0.227 χ^2/NDF :16352.6/22

Left: -56.974+/-0.159 χ^2/NDF : 34964.5/47

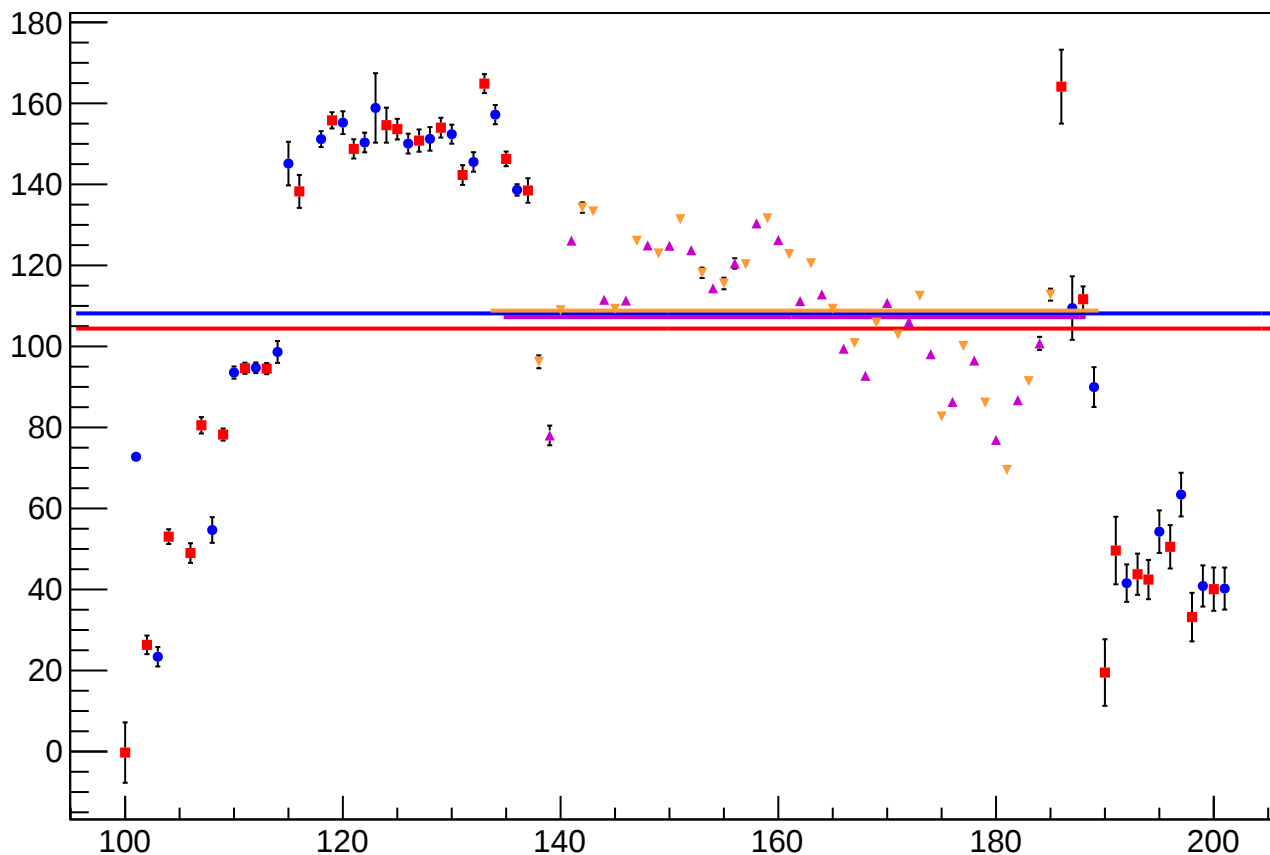
Right: -71.193+/-0.421 χ^2/NDF : 6203.4/51

In: -57.616+/-0.214 χ^2/NDF :19006.8/46

Out: -59.824+/-0.207 χ^2/NDF :23105.2/52

All: -58.754+/-0.149 χ^2/NDF : 42166.9/99

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 108.149 $\pm$ 0.476 χ^2 /NDF: 6642.0/23

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 104.411 $\pm$ 0.471 χ^2 /NDF: 7966.6/27

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

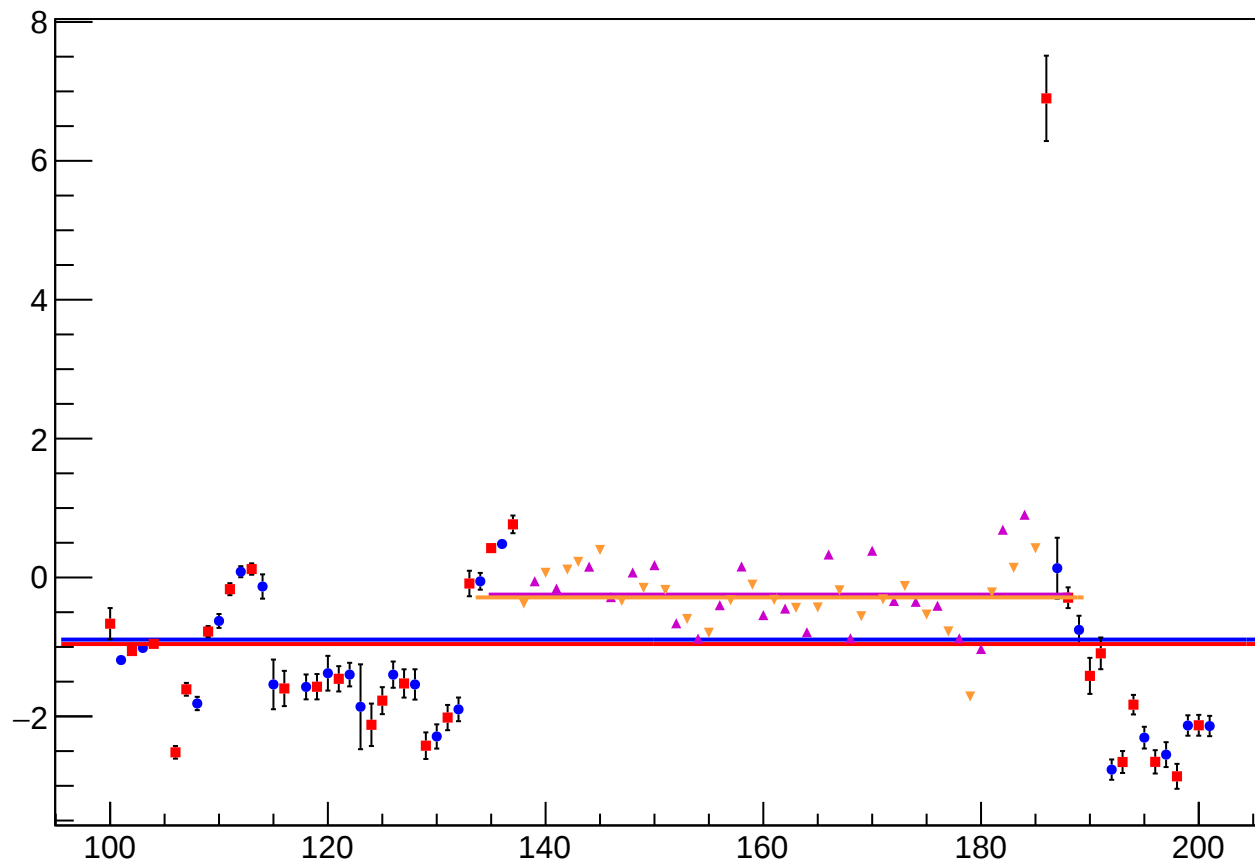
Right: 106.260 $\pm$ 0.335 χ^2 /NDF: 14639.8/51

In: 107.366 $\pm$ 0.186 χ^2 /NDF: 12210.5/46

Out: 108.183 $\pm$ 0.182 χ^2 /NDF: 15442.3/52

All: 107.784 $\pm$ 0.130 χ^2 /NDF: 27662.6/99

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.894 +/- 0.024 χ^2/NDF : 1530.2/23

Left Out: -0.287 +/- 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.959 +/- 0.023 χ^2/NDF : 1953.5/27

Left In: -0.247 +/- 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 +/- 0.006 χ^2/NDF : 4855.3/47

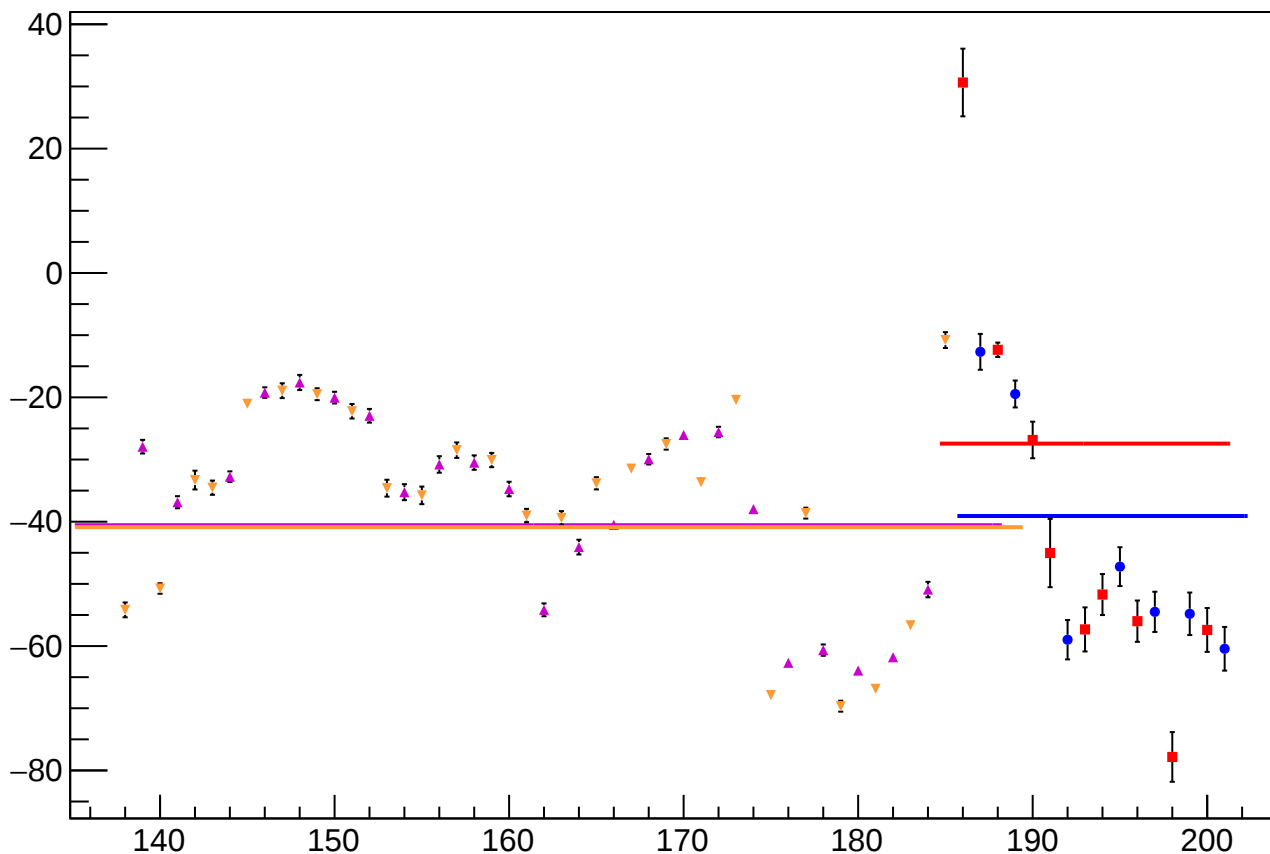
Right: -0.928 +/- 0.016 χ^2/NDF : 3487.5/51

In: -0.331 +/- 0.009 χ^2/NDF : 4957.0/46

Out: -0.380 +/- 0.008 χ^2/NDF : 4769.9/52

All: -0.356 +/- 0.006 χ^2/NDF : 9744.0/99

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



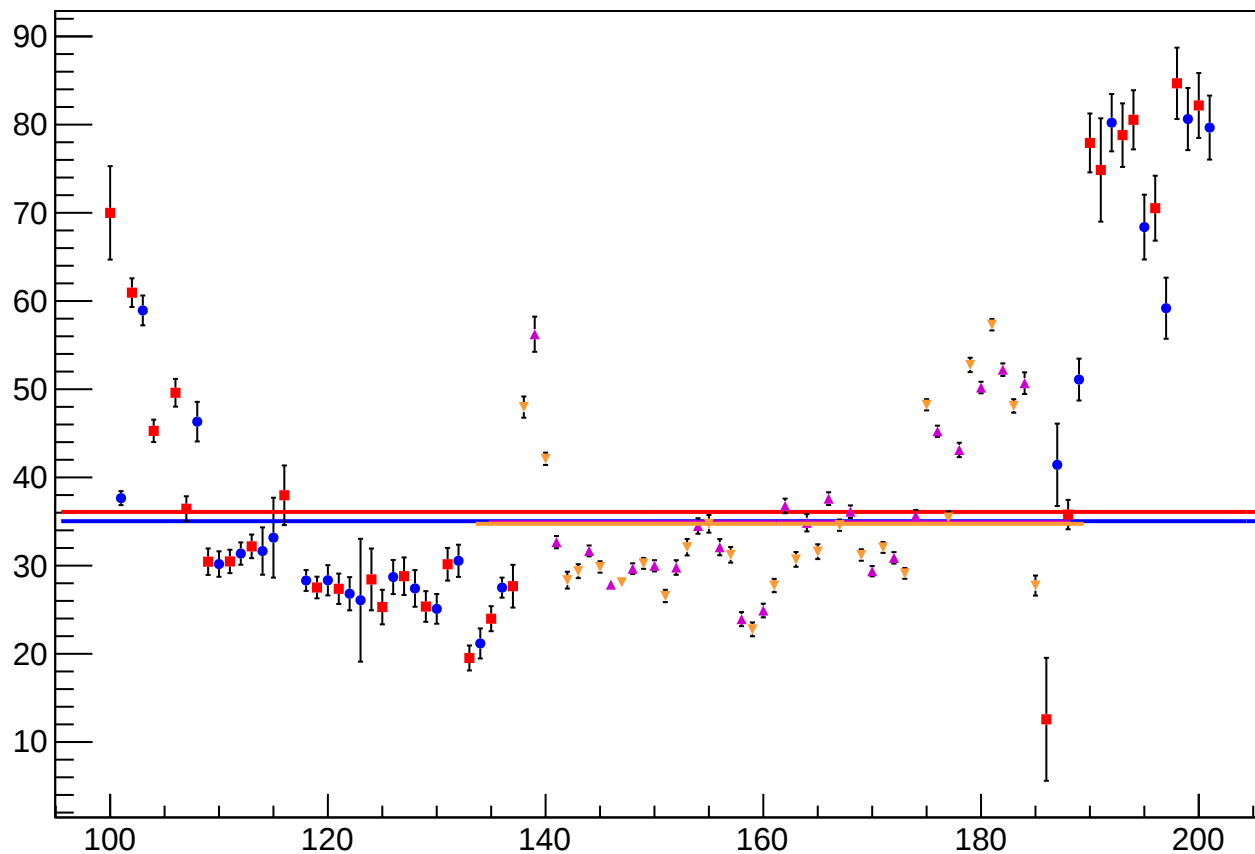
Right In: -39.083 ± 1.119 χ^2/NDF : 293.4/6
 Left Out: -40.880 ± 0.186 χ^2/NDF : 9123.2/24
 Right Out: -27.440 ± 0.865 χ^2/NDF : 725.0/8
 Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47
 Right: -31.793 ± 0.684 χ^2/NDF : 1086.1/15

In: -40.525 ± 0.187 χ^2/NDF : 7249.8/29
 Out: -40.285 ± 0.182 χ^2/NDF : 10079.1/33

All: -40.402 ± 0.130 χ^2/NDF : 17329.7/63

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.037 $\pm$ 0.360 χ^2 /NDF: 1191.7/23

Left Out: 34.741 $\pm$ 0.147 χ^2 /NDF:3693.2/24

Right Out: 36.089 $\pm$ 0.357 χ^2 /NDF: 1751.0/27

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

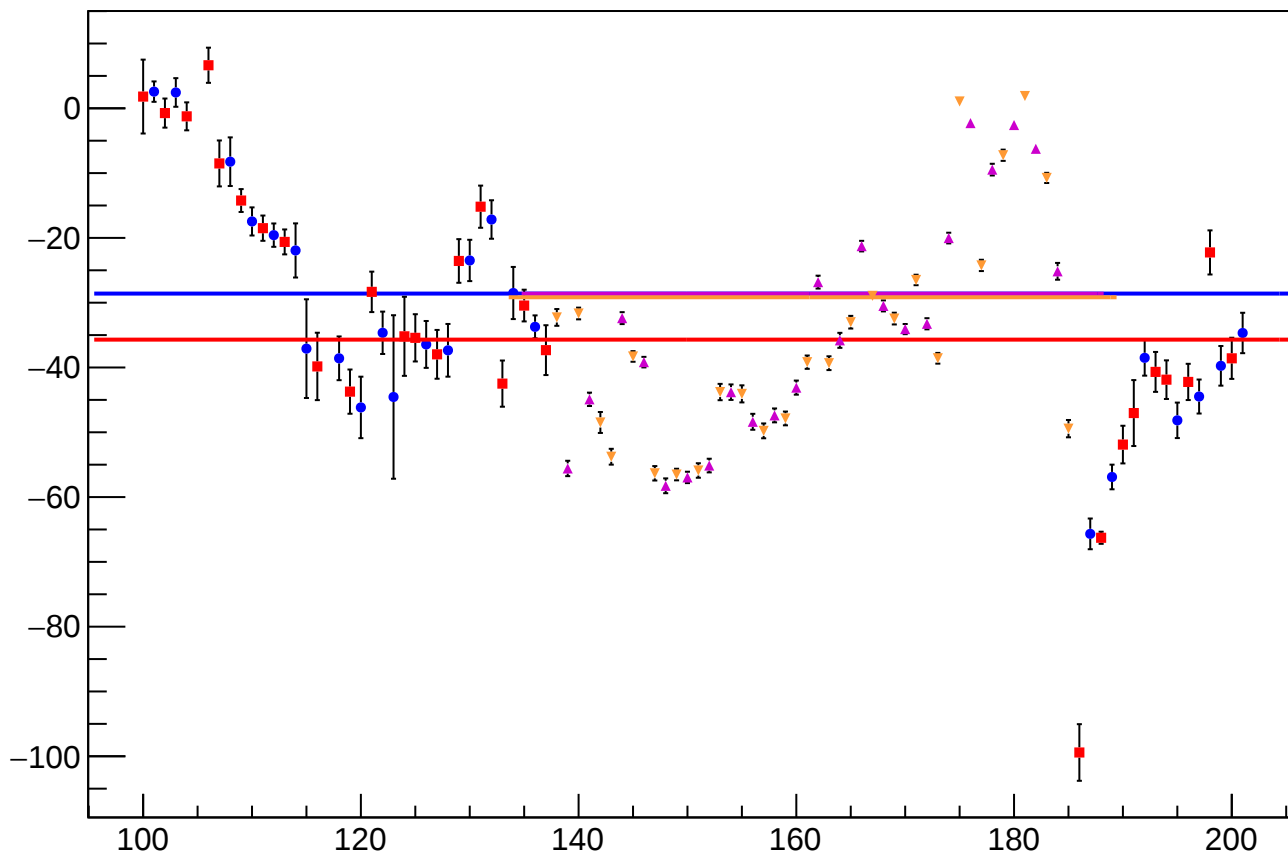
Right: 35.567 $\pm$ 0.254 χ^2 /NDF: 2947.0/51

In: 34.940 $\pm$ 0.140 χ^2 /NDF:3864.7/46

Out: 34.937 $\pm$ 0.136 χ^2 /NDF:5456.3/52

All: 34.938 $\pm$ 0.098 χ^2 /NDF: 9321.0/99

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -28.594 $\pm$ 0.549 χ^2 /NDF: 1320.8/23

Left Out: -29.163 $\pm$ 0.187 χ^2 /NDF:10126.0/24

Right Out: -35.700 $\pm$ 0.483 χ^2 /NDF: 2552.5/27

Left In: -28.616 $\pm$ 0.190 χ^2 /NDF:9040.9/22

Left: -28.894 $\pm$ 0.133 χ^2 /NDF: 19171.1/47

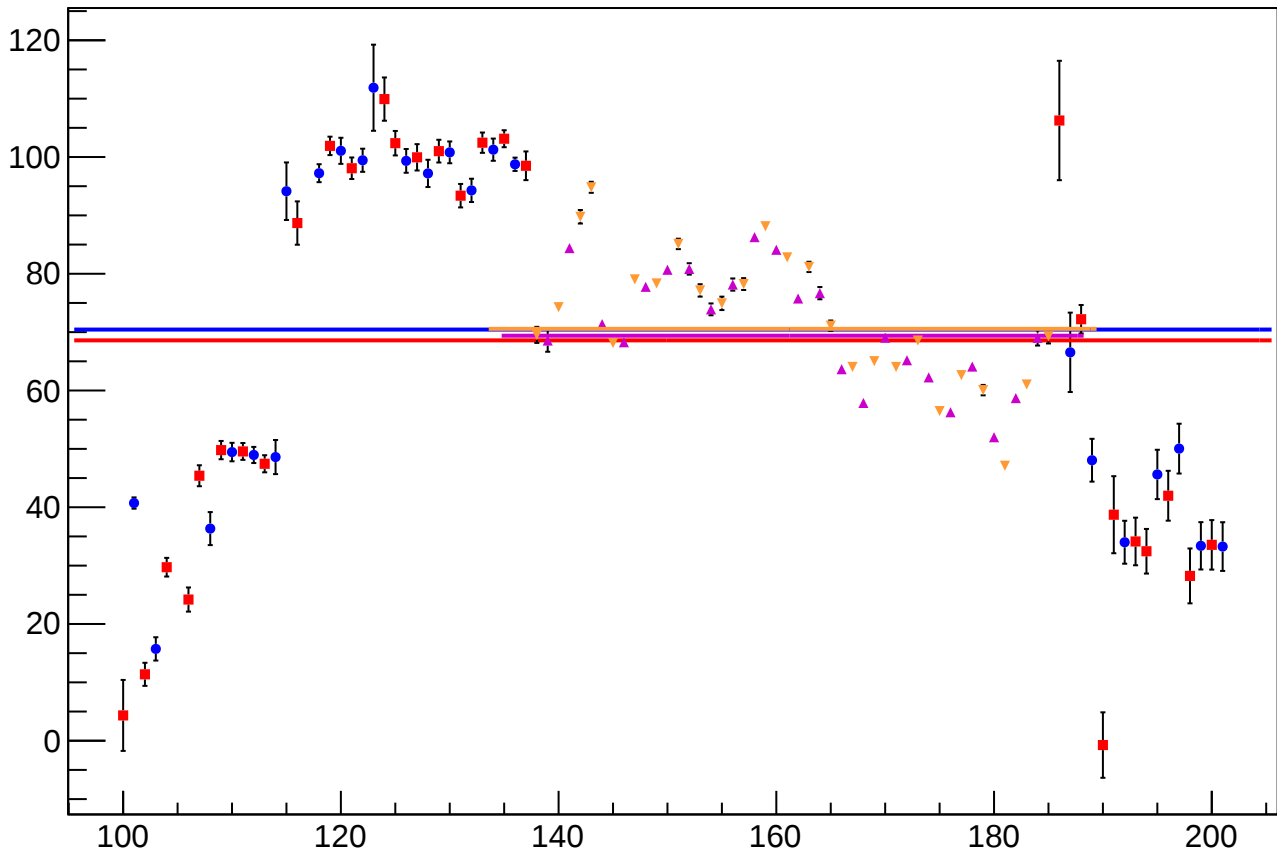
Right: -32.605 $\pm$ 0.363 χ^2 /NDF: 3967.7/51

In: -28.614 $\pm$ 0.179 χ^2 /NDF:10361.6/46

Out: -30.017 $\pm$ 0.174 χ^2 /NDF:12838.1/52

All: -29.335 $\pm$ 0.125 χ^2 /NDF: 23231.2/99

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 70.441 ± 0.414 χ^2/NDF : 5051.9/23

Left Out: 70.563 ± 0.166 χ^2/NDF : 4589.1/24

Right Out: 68.589 ± 0.414 χ^2/NDF : 6050.8/27

Left In: 69.387 ± 0.170 χ^2/NDF : 3321.8/22

Left: 69.989 ± 0.119 χ^2/NDF : 7935.4/47

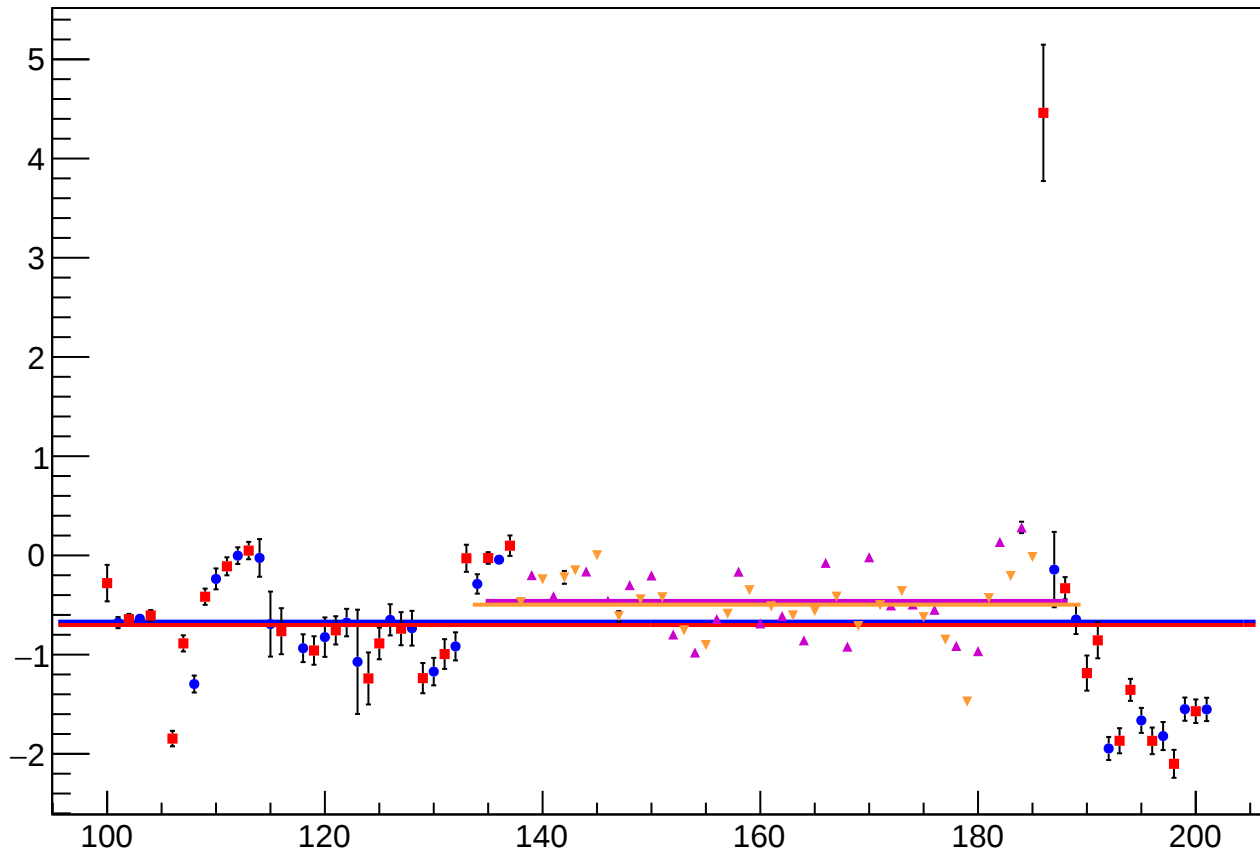
Right: 69.515 ± 0.293 χ^2/NDF : 11112.7/51

In: 69.539 ± 0.157 χ^2/NDF : 8379.3/46

Out: 70.289 ± 0.154 χ^2/NDF : 10659.4/52

All: 69.922 ± 0.110 χ^2/NDF : 19050.3/99

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.668 ± 0.020 χ^2/NDF : 724.0/23

Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24

Right Out: -0.701 ± 0.019 χ^2/NDF : 1025.1/27

Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47

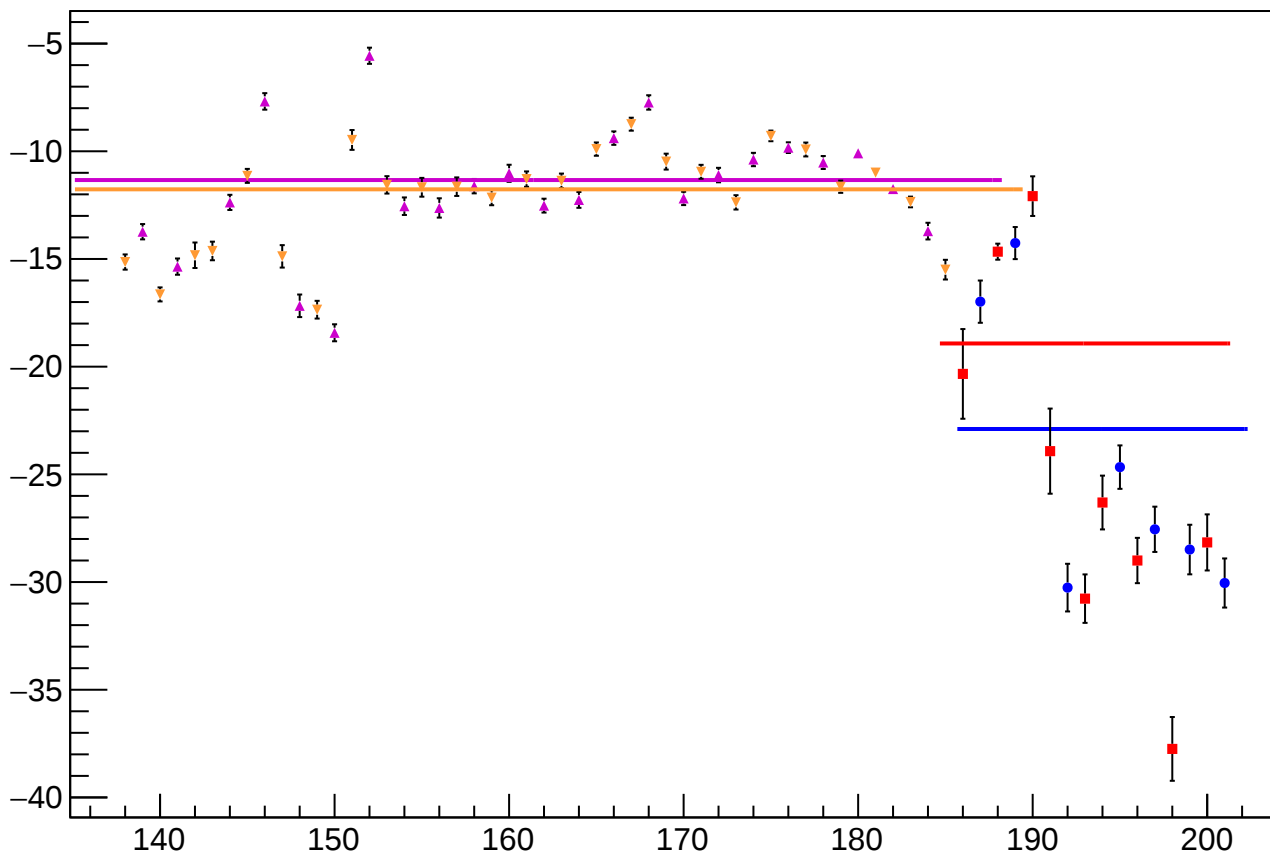
Right: -0.685 ± 0.014 χ^2/NDF : 1750.5/51

In: -0.485 ± 0.007 χ^2/NDF : 2773.4/46

Out: -0.524 ± 0.007 χ^2/NDF : 2570.4/52

All: -0.505 ± 0.005 χ^2/NDF : 5358.5/99

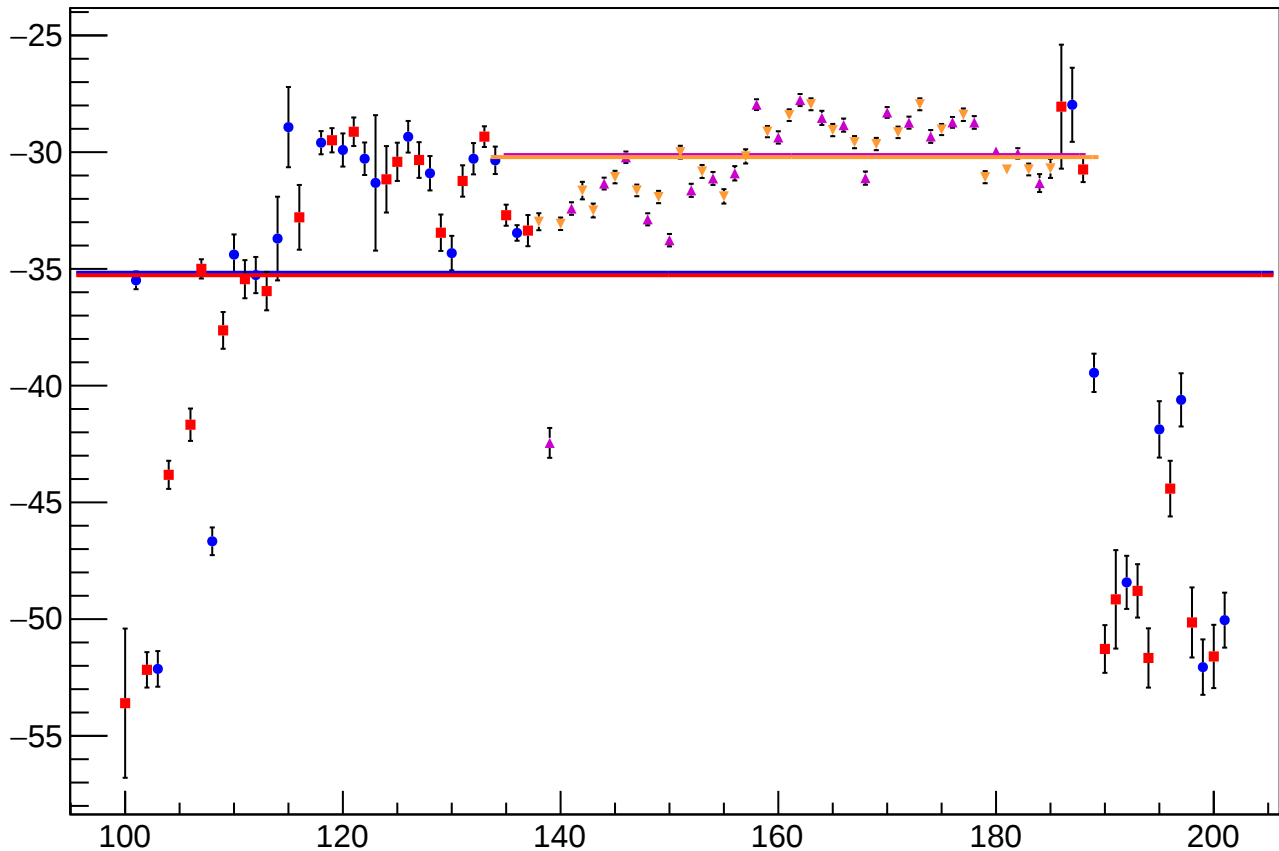
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -22.894 ± 0.376 χ^2/NDF : 300.5/6
 Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24
 Right Out: -18.923 ± 0.286 χ^2/NDF : 642.8/8
 Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47
 Right: -20.375 ± 0.227 χ^2/NDF : 1014.1/15
 In: -11.702 ± 0.067 χ^2/NDF : 2484.4/29
 Out: -12.137 ± 0.065 χ^2/NDF : 2259.4/33
 All: -11.926 ± 0.047 χ^2/NDF : 4765.5/63

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -35.166 ± 0.143 χ^2/NDF : 1971.4/23

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -35.270 ± 0.139 χ^2/NDF : 2376.1/27

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

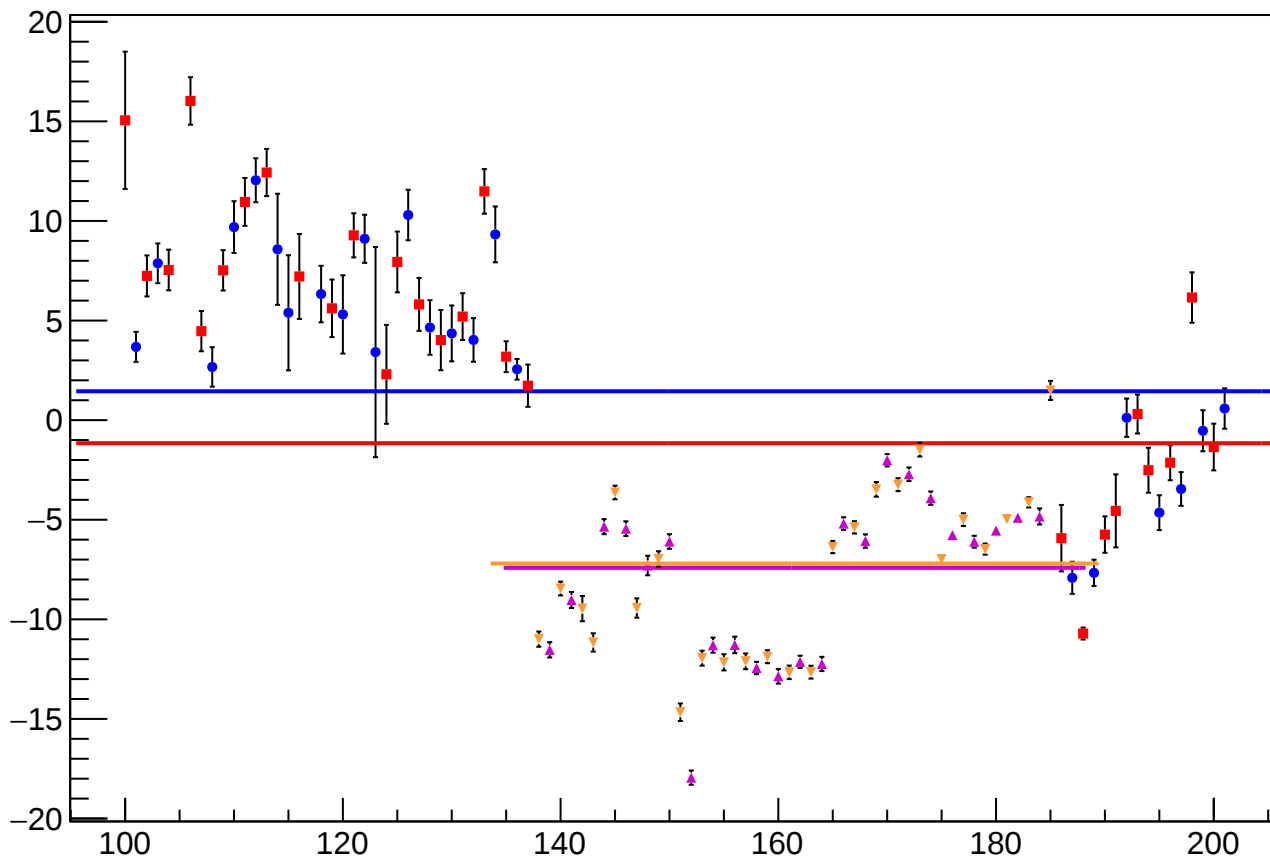
Right: -35.219 ± 0.100 χ^2/NDF : 4347.8/51

In: -30.783 ± 0.052 χ^2/NDF : 4276.7/46

Out: -30.871 ± 0.050 χ^2/NDF : 4259.9/52

All: -30.829 ± 0.036 χ^2/NDF : 8538.2/99

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



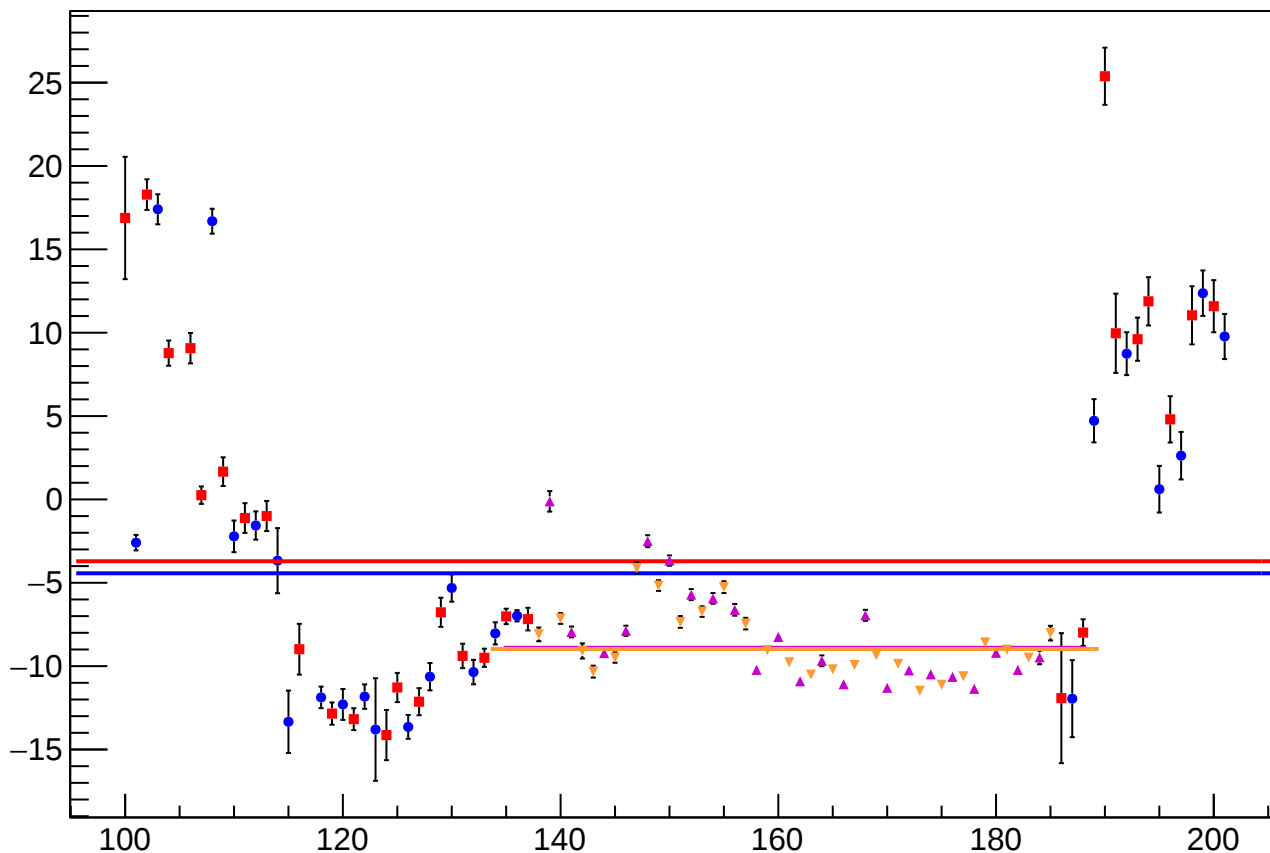
Right In: 1.449 ± 0.208 $\chi^2/\text{NDF}: 762.6/23$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -1.159 ± 0.181 $\chi^2/\text{NDF}: 2193.3/27$
 Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$
 Right: -0.036 ± 0.136 $\chi^2/\text{NDF}: 3045.7/51$

In: -6.560 ± 0.065 $\chi^2/\text{NDF}: 5531.6/46$
 Out: -6.471 ± 0.063 $\chi^2/\text{NDF}: 6214.3/52$

All: -6.514 ± 0.045 $\chi^2/\text{NDF}: 11746.9/99$

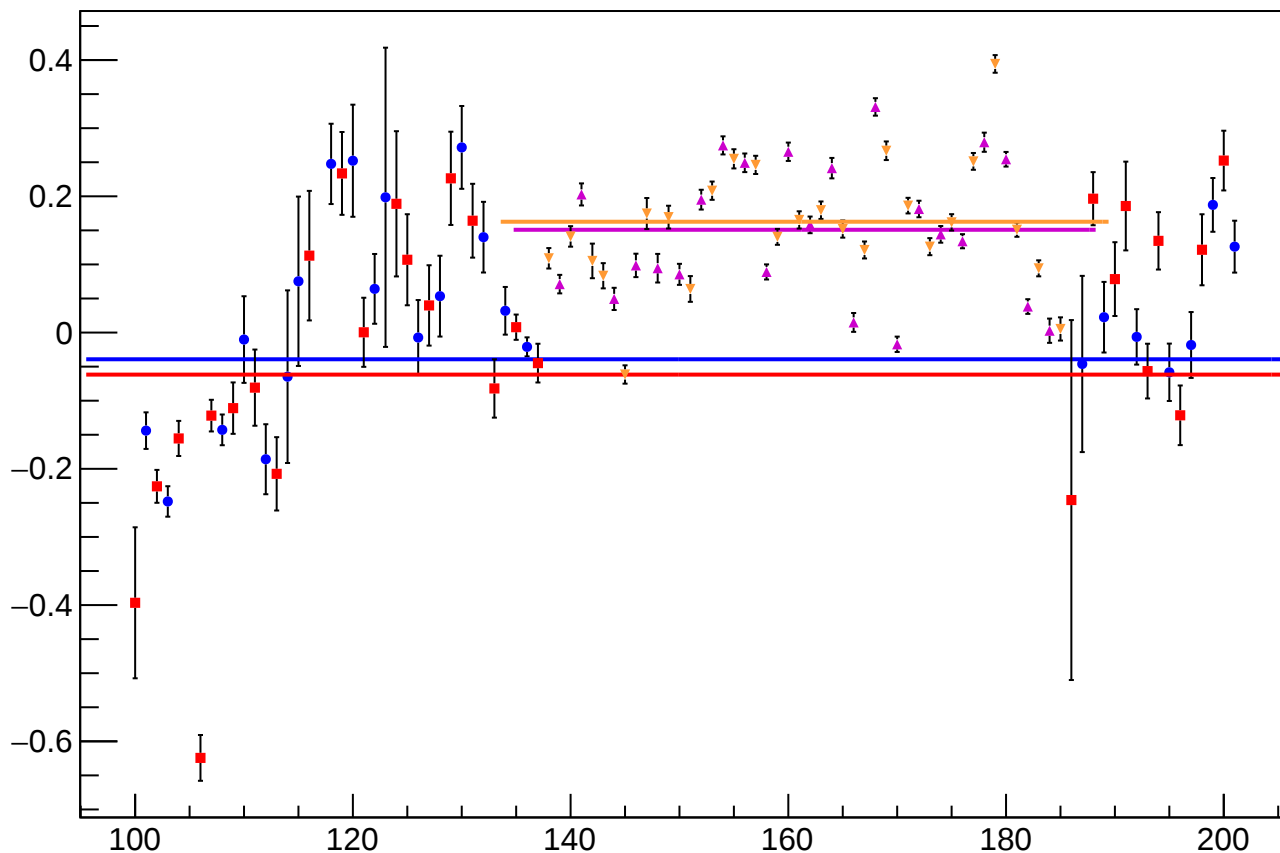
reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.431 ± 0.163 $\chi^2/\text{NDF}: 2597.3/23$
 Left Out: -8.970 ± 0.060 $\chi^2/\text{NDF}: 878.8/24$
 Right Out: -3.709 ± 0.163 $\chi^2/\text{NDF}: 2867.2/27$
 Left In: -8.900 ± 0.062 $\chi^2/\text{NDF}: 1533.9/22$

Left: -8.936 ± 0.043 $\chi^2/\text{NDF}: 2413.4/47$
 Right: -4.069 ± 0.115 $\chi^2/\text{NDF}: 5474.3/51$
 In: -8.341 ± 0.058 $\chi^2/\text{NDF}: 4789.2/46$
 Out: -8.336 ± 0.056 $\chi^2/\text{NDF}: 4666.7/52$
 All: -8.339 ± 0.040 $\chi^2/\text{NDF}: 9455.9/99$

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.039 ± 0.008 χ^2/NDF : 275.2/23

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.062 ± 0.007 χ^2/NDF : 610.5/27

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

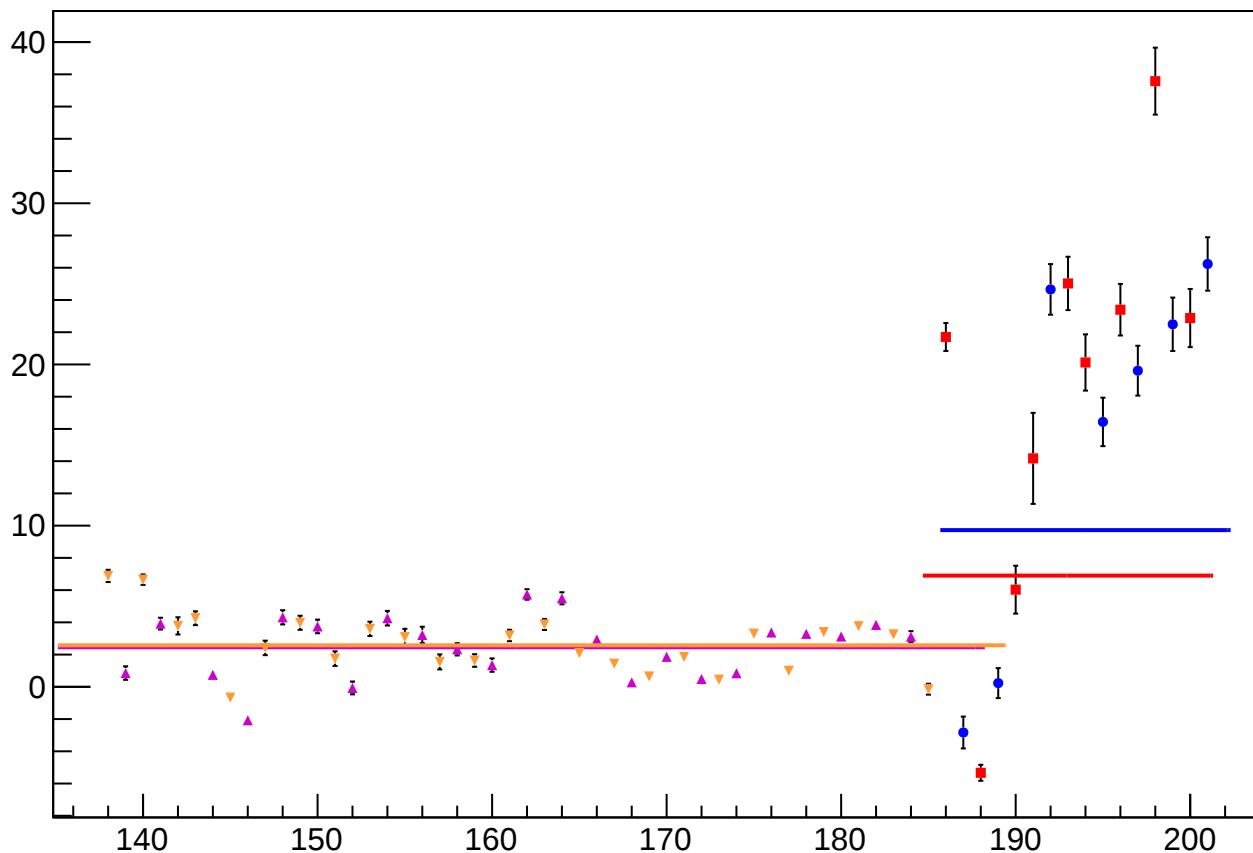
Right: -0.051 ± 0.005 χ^2/NDF : 890.2/51

In: 0.128 ± 0.003 χ^2/NDF : 2119.5/46

Out: 0.136 ± 0.003 χ^2/NDF : 2422.9/52

All: 0.132 ± 0.002 χ^2/NDF : 4547.2/99

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.722 ± 0.489 $\chi^2/\text{NDF}: 575.3/6$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 6.899 ± 0.363 $\chi^2/\text{NDF}: 1486.7/8$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

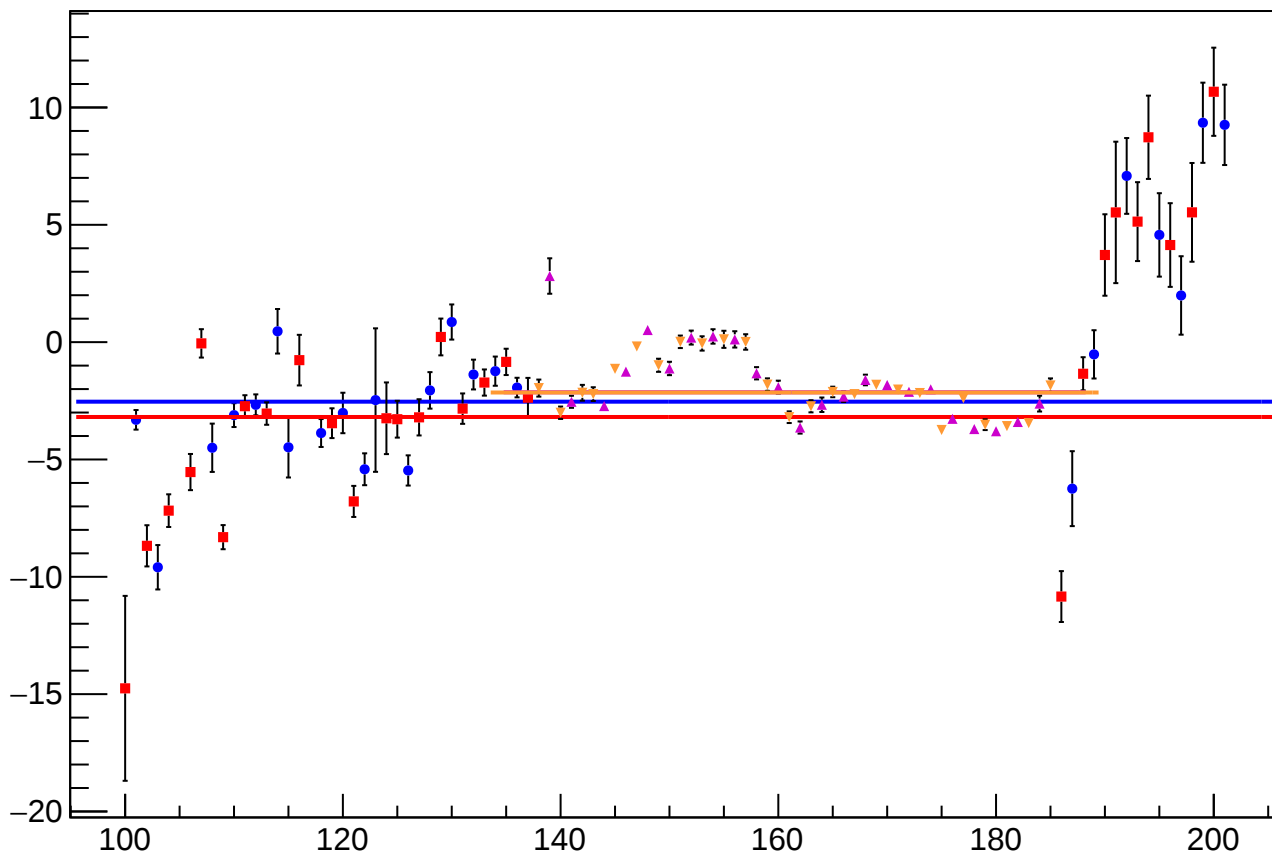
Right: 7.900 ± 0.292 $\chi^2/\text{NDF}: 2083.5/15$

In: 2.558 ± 0.059 $\chi^2/\text{NDF}: 1664.0/29$

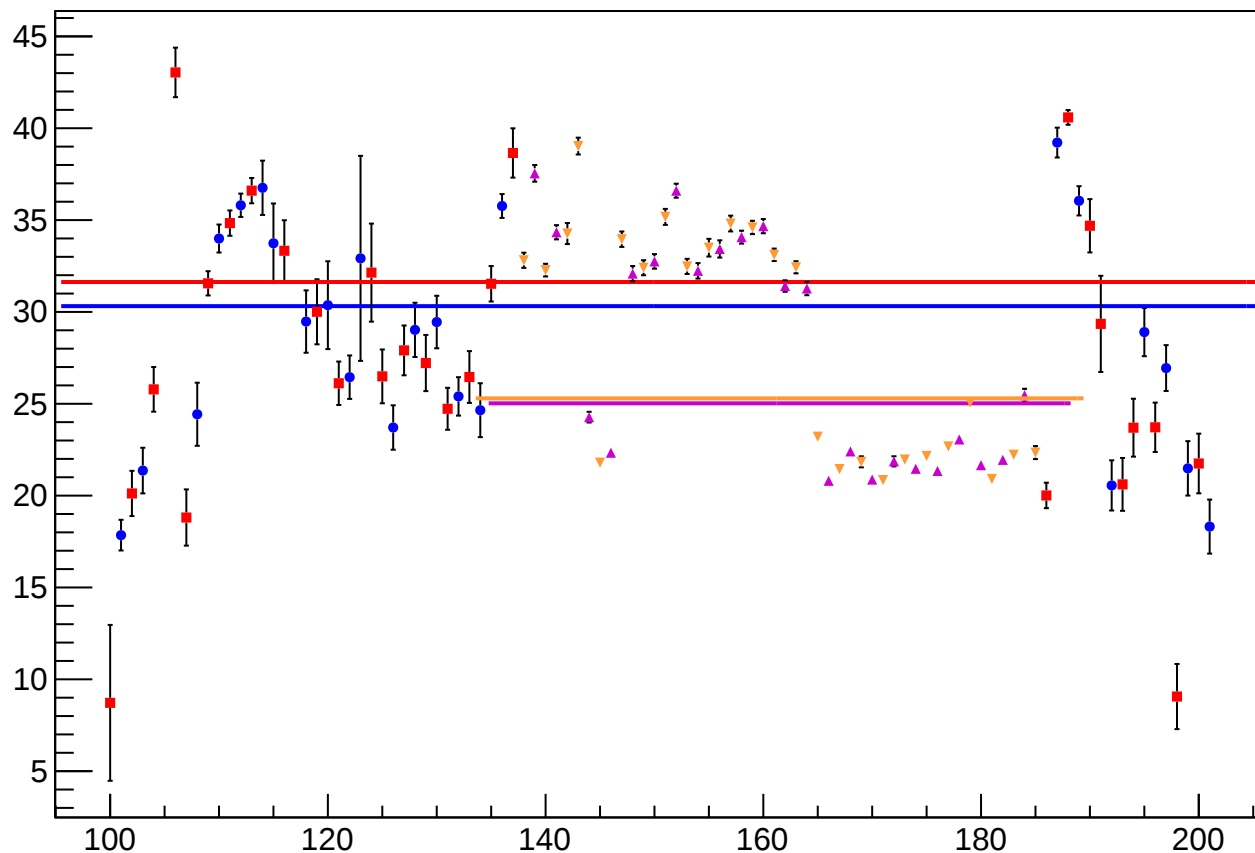
Out: 2.685 ± 0.058 $\chi^2/\text{NDF}: 2492.5/33$

All: 2.623 ± 0.041 $\chi^2/\text{NDF}: 4158.9/63$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.316 $\pm$ 0.225 χ^2 /NDF: 889.2/23

Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF:8272.3/24

Right Out: 31.630 $\pm$ 0.197 χ^2 /NDF: 1589.4/27

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

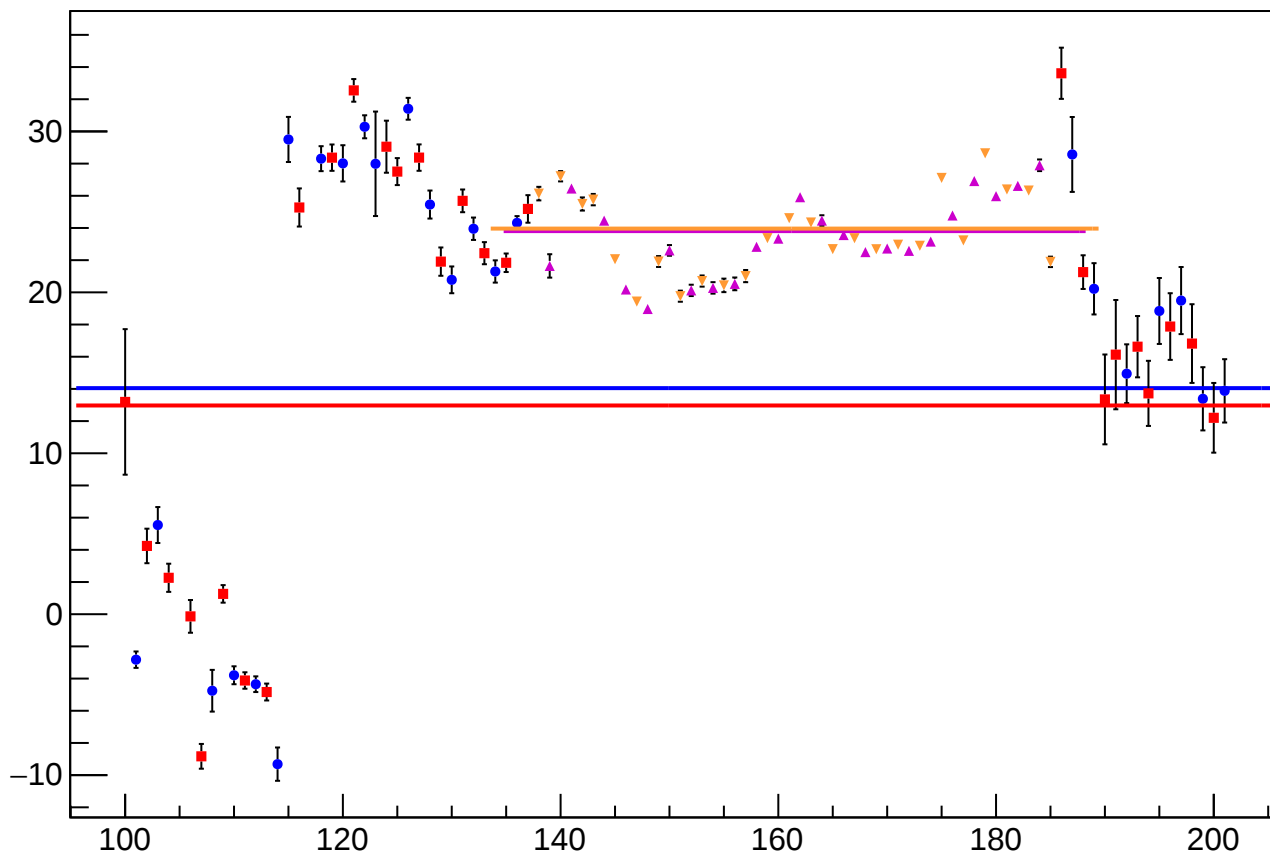
Right: 31.061 $\pm$ 0.148 χ^2 /NDF: 2498.0/51

In: 25.371 $\pm$ 0.058 χ^2 /NDF:9015.4/46

Out: 25.816 $\pm$ 0.056 χ^2 /NDF:10812.9/52

All: 25.598 $\pm$ 0.040 χ^2 /NDF: 19858.6/99

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.048 $\pm$ 0.168 χ^2 /NDF: 7343.0/23

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 12.970 $\pm$ 0.167 χ^2 /NDF: 7207.5/27

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

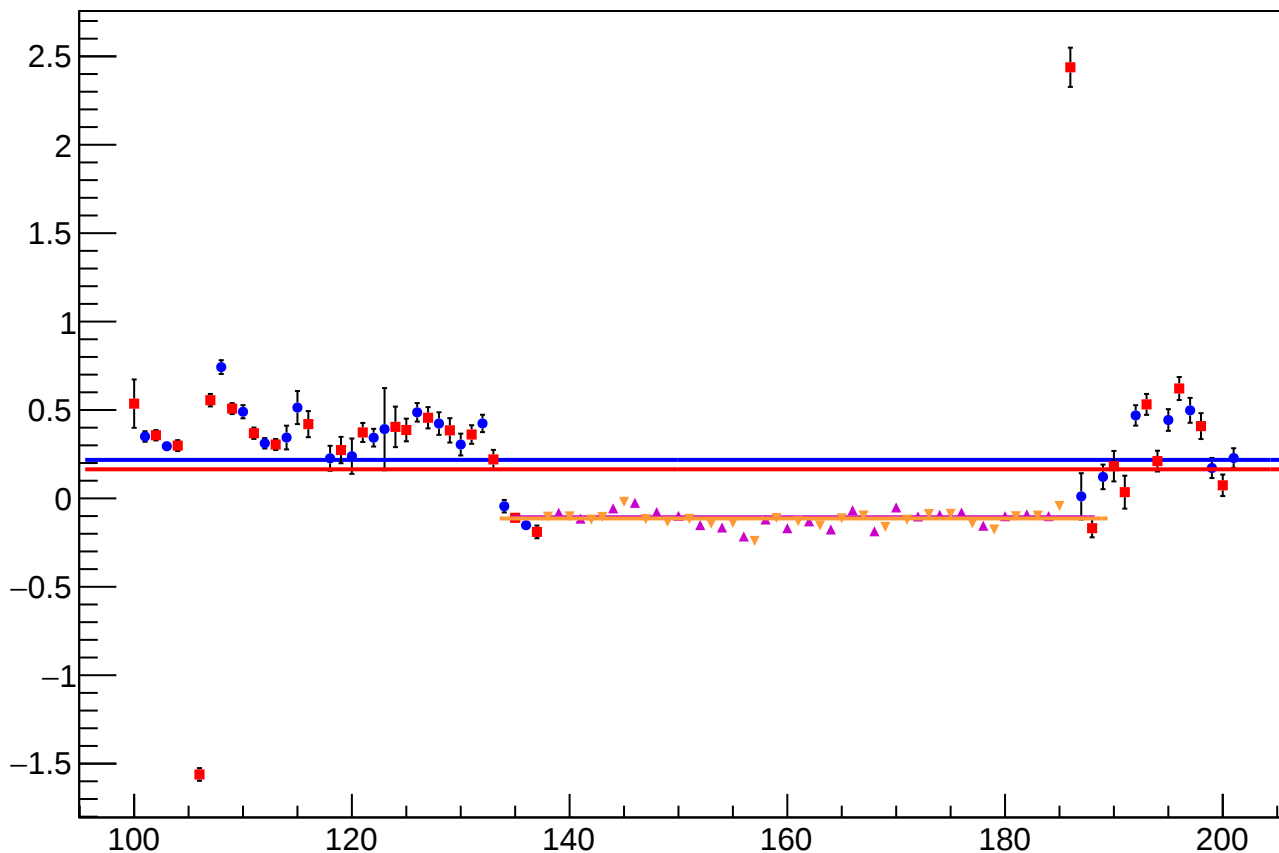
Right: 13.506 $\pm$ 0.119 χ^2 /NDF: 14571.1/51

In: 22.894 $\pm$ 0.051 χ^2 /NDF:12148.5/46

Out: 22.955 $\pm$ 0.051 χ^2 /NDF:13046.8/52

All: 22.925 $\pm$ 0.036 χ^2 /NDF: 25196.0/99

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.218 ± 0.009 $\chi^2/\text{NDF}: 901.8/23$

Left Out: -0.113 ± 0.002 $\chi^2/\text{NDF}: 291.0/24$

Right Out: 0.164 ± 0.009 $\chi^2/\text{NDF}: 3586.6/27$

Left In: -0.107 ± 0.002 $\chi^2/\text{NDF}: 321.8/22$

Left: -0.110 ± 0.002 $\chi^2/\text{NDF}: 616.6/47$

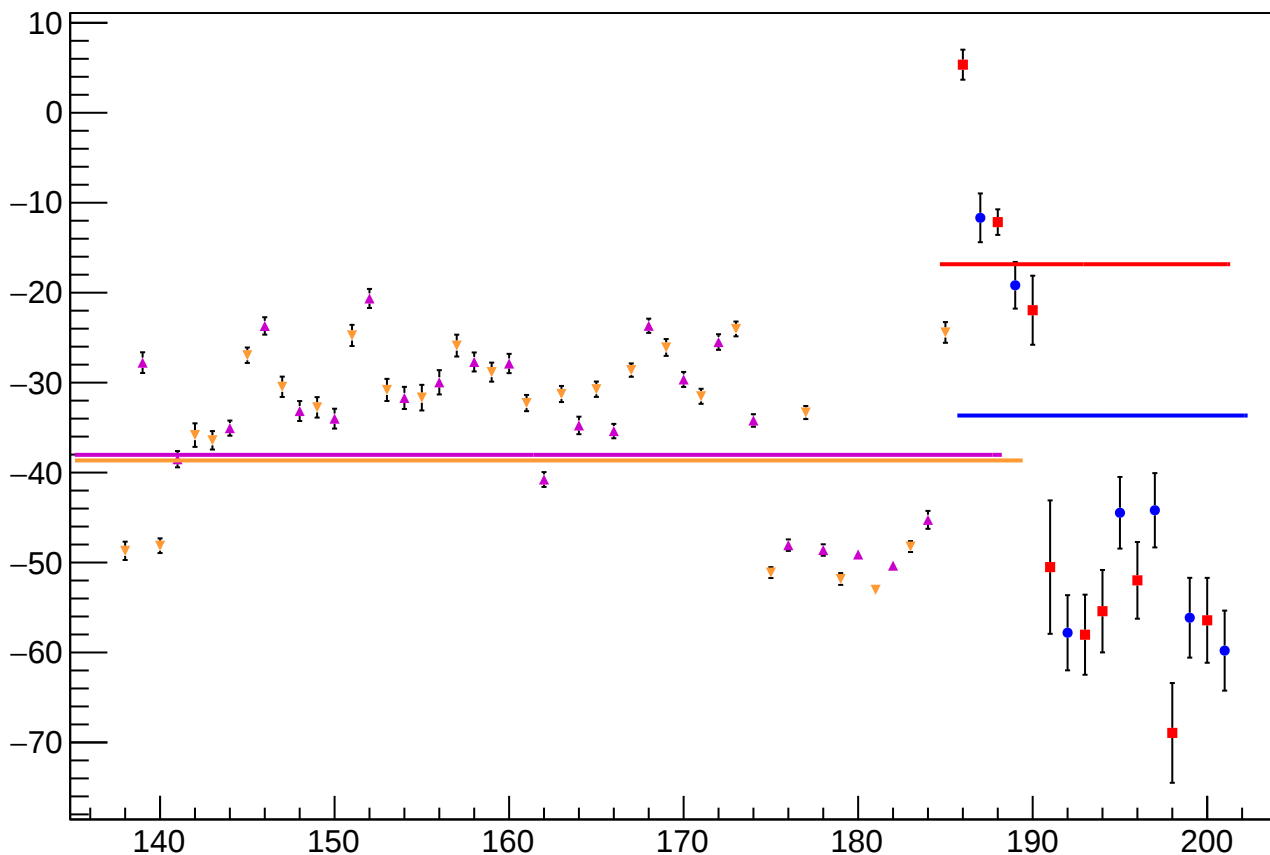
Right: 0.190 ± 0.006 $\chi^2/\text{NDF}: 4507.4/51$

In: -0.083 ± 0.002 $\chi^2/\text{NDF}: 2494.0/46$

Out: -0.093 ± 0.002 $\chi^2/\text{NDF}: 4859.9/52$

All: -0.088 ± 0.002 $\chi^2/\text{NDF}: 7362.6/99$

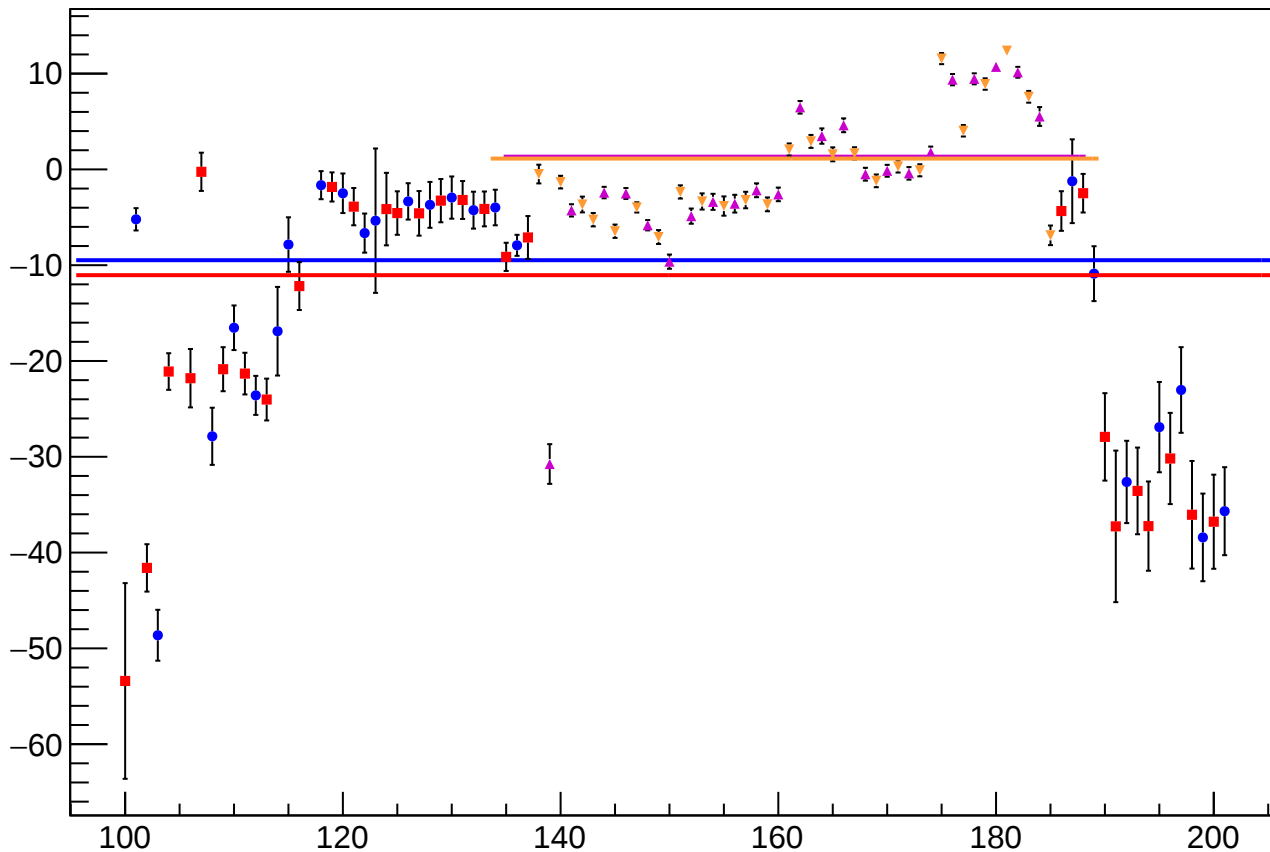
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.659 ± 1.330 χ^2/NDF : 204.4/6
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -16.837 ± 0.924 χ^2/NDF : 593.0/8
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -22.314 ± 0.759 χ^2/NDF : 905.2/15
 In: -37.954 ± 0.172 χ^2/NDF : 3306.9/29
 Out: -37.943 ± 0.166 χ^2/NDF : 5209.1/33
 All: -37.949 ± 0.119 χ^2/NDF : 8516.0/63

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.479 ± 0.447 χ^2/NDF : 542.3/23

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -11.043 ± 0.452 χ^2/NDF : 604.4/27

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

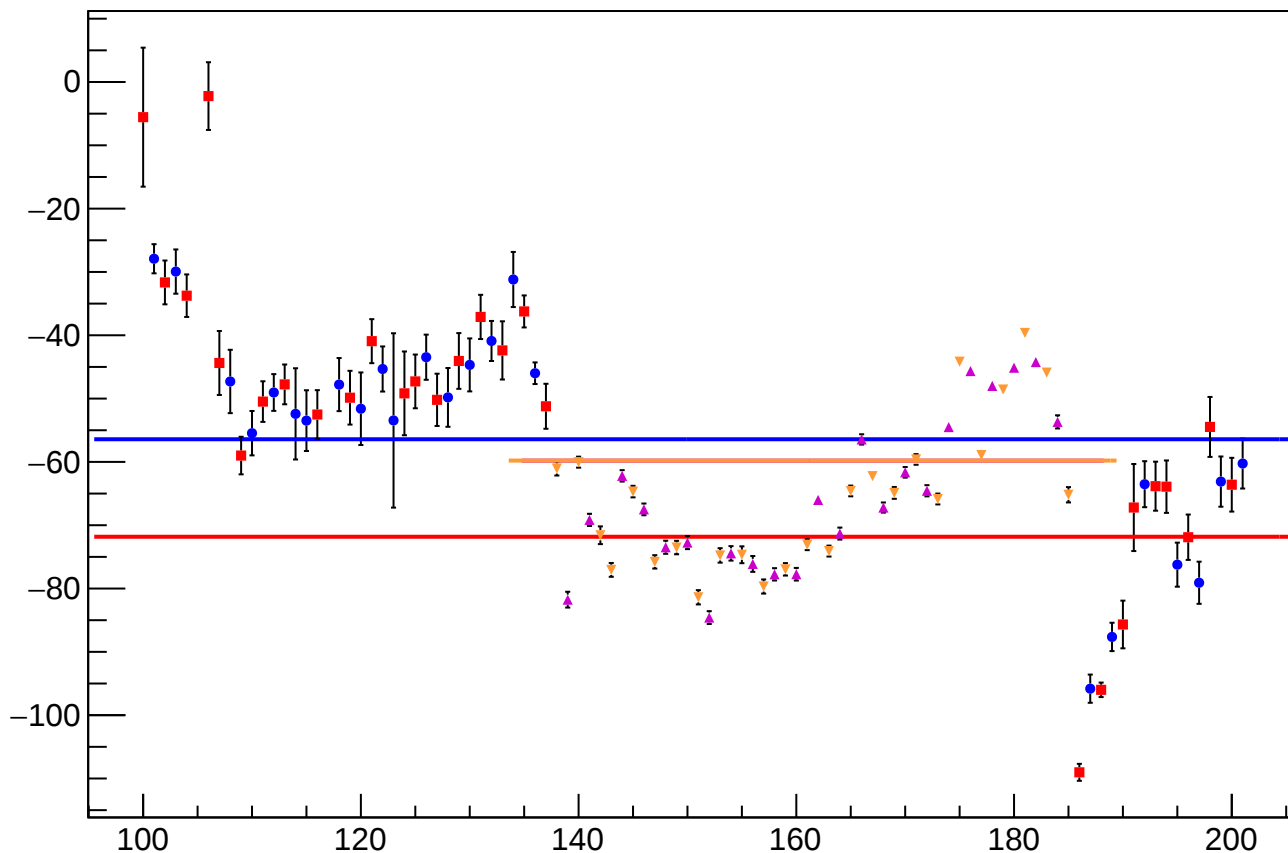
Right: -10.252 ± 0.318 χ^2/NDF : 1152.8/51

In: 0.365 ± 0.133 χ^2/NDF : 3123.6/46

Out: 0.120 ± 0.130 χ^2/NDF : 3068.7/52

All: 0.239 ± 0.093 χ^2/NDF : 6194.0/99

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -56.424 ± 0.674 χ^2/NDF : 947.6/23

Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24

Right Out: -71.820 ± 0.573 χ^2/NDF : 2492.2/27

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

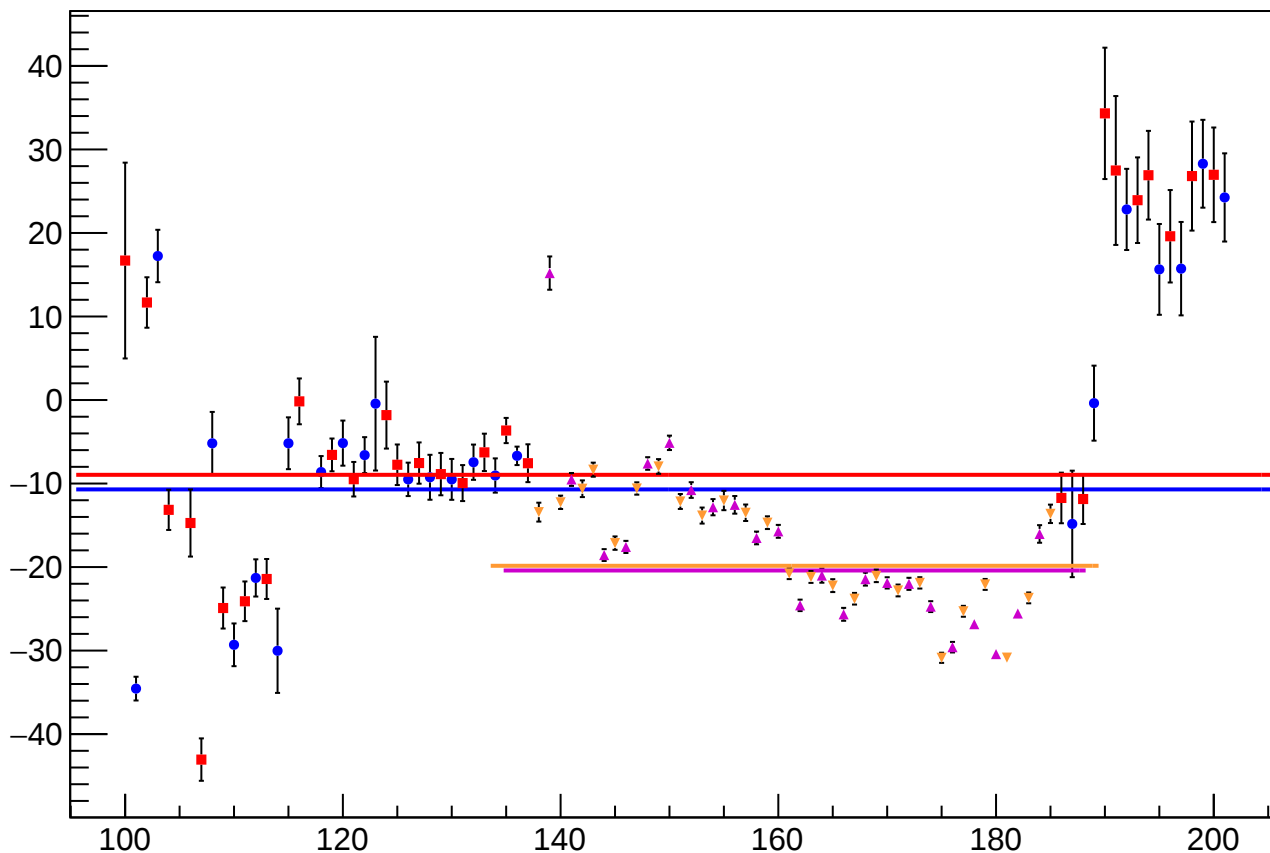
Right: -65.358 ± 0.437 χ^2/NDF : 3742.5/51

In: -59.593 ± 0.168 χ^2/NDF : 6188.7/46

Out: -60.762 ± 0.163 χ^2/NDF : 8734.6/52

All: -60.194 ± 0.117 χ^2/NDF : 14948.3/99

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected

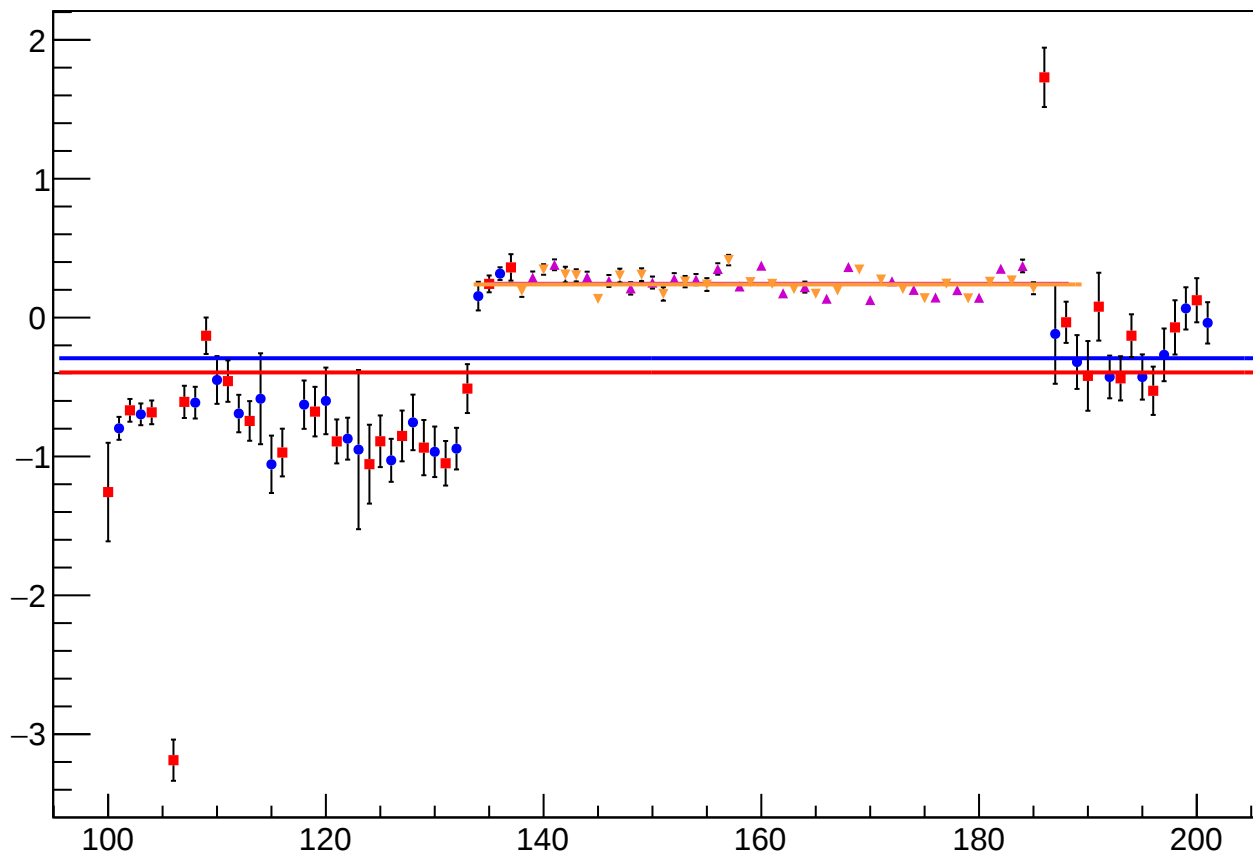


Right In: -10.703 ± 0.506 χ^2/NDF : 682.1/23
 Left Out: -19.847 ± 0.153 χ^2/NDF : 1931.3/24
 Right Out: -8.956 ± 0.523 χ^2/NDF : 609.2/27
 Left In: -20.410 ± 0.157 χ^2/NDF : 2302.0/22

Left: -20.122 ± 0.109 χ^2/NDF : 4239.8/47
 Right: -9.857 ± 0.364 χ^2/NDF : 1297.1/51
 In: -19.562 ± 0.150 χ^2/NDF : 3319.4/46
 Out: -18.990 ± 0.147 χ^2/NDF : 2940.7/52

All: -19.270 ± 0.105 χ^2/NDF : 6267.5/99

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.293 ± 0.025 χ^2/NDF : 382.1/23

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.395 ± 0.026 χ^2/NDF : 762.3/27

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

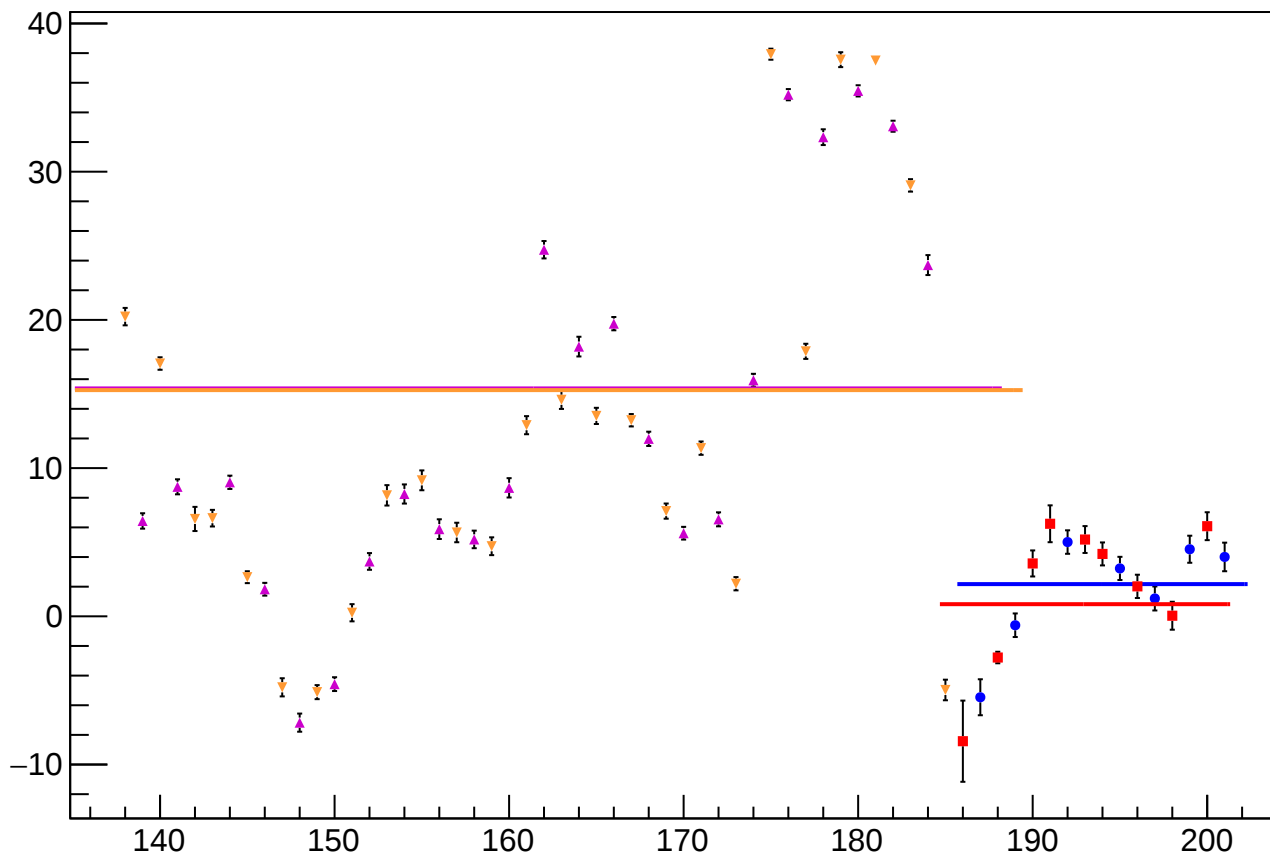
Right: -0.343 ± 0.018 χ^2/NDF : 1152.4/51

In: 0.204 ± 0.007 χ^2/NDF : 931.3/46

Out: 0.195 ± 0.007 χ^2/NDF : 1416.7/52

All: 0.199 ± 0.005 χ^2/NDF : 2348.9/99

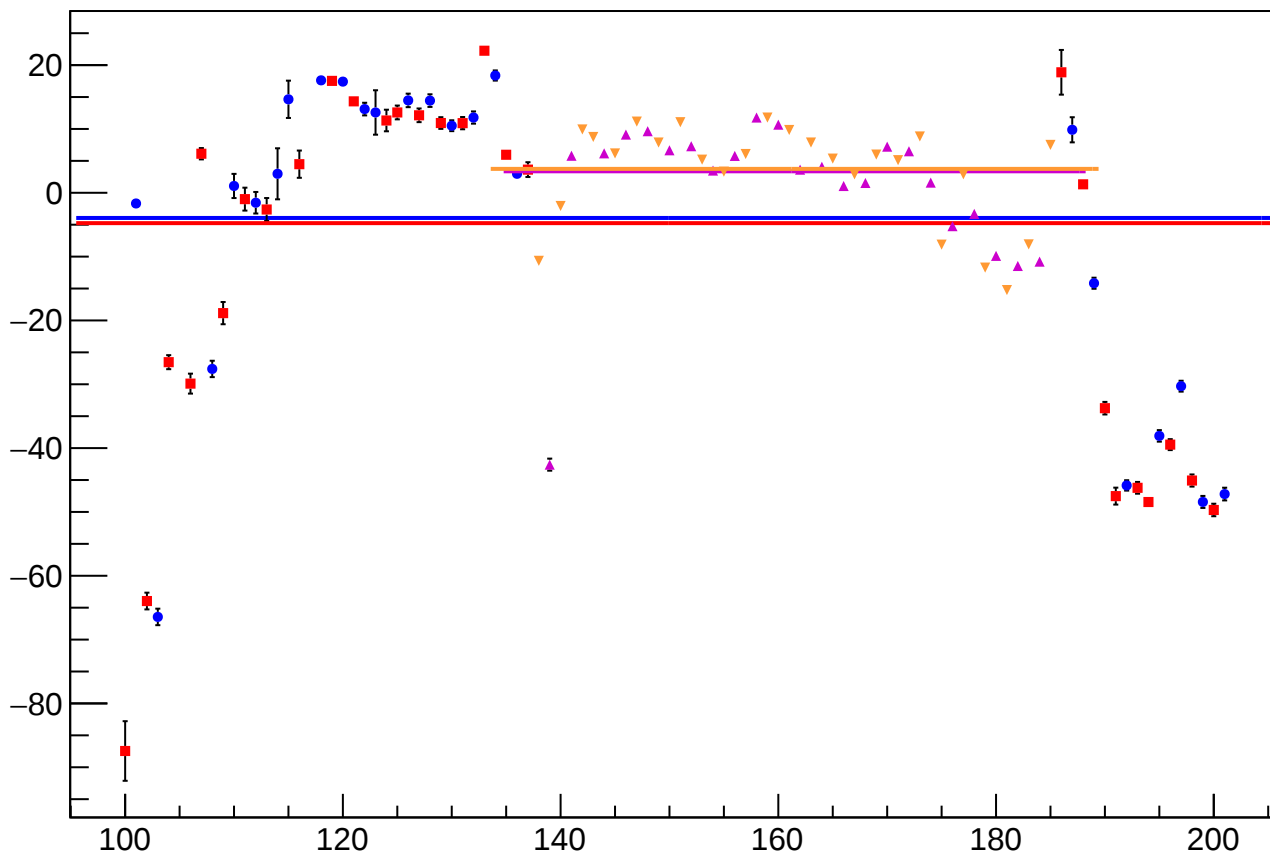
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.173 ± 0.328 $\chi^2/\text{NDF}: 78.1/6$
 Left Out: 15.263 ± 0.100 $\chi^2/\text{NDF}: 19175.2/24$
 Right Out: 0.819 ± 0.254 $\chi^2/\text{NDF}: 202.4/8$
 Left In: 15.377 ± 0.103 $\chi^2/\text{NDF}: 16268.9/22$

Left: 15.318 ± 0.072 $\chi^2/\text{NDF}: 35444.7/47$
 Right: 1.328 ± 0.201 $\chi^2/\text{NDF}: 291.1/15$
 In: 14.198 ± 0.098 $\chi^2/\text{NDF}: 17821.6/29$
 Out: 13.314 ± 0.093 $\chi^2/\text{NDF}: 22164.5/33$
 All: 13.735 ± 0.068 $\chi^2/\text{NDF}: 40028.6/63$

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.943 ± 0.186 $\chi^2/\text{NDF}: 17502.3/23$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -4.756 ± 0.174 $\chi^2/\text{NDF}: 23276.0/27$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

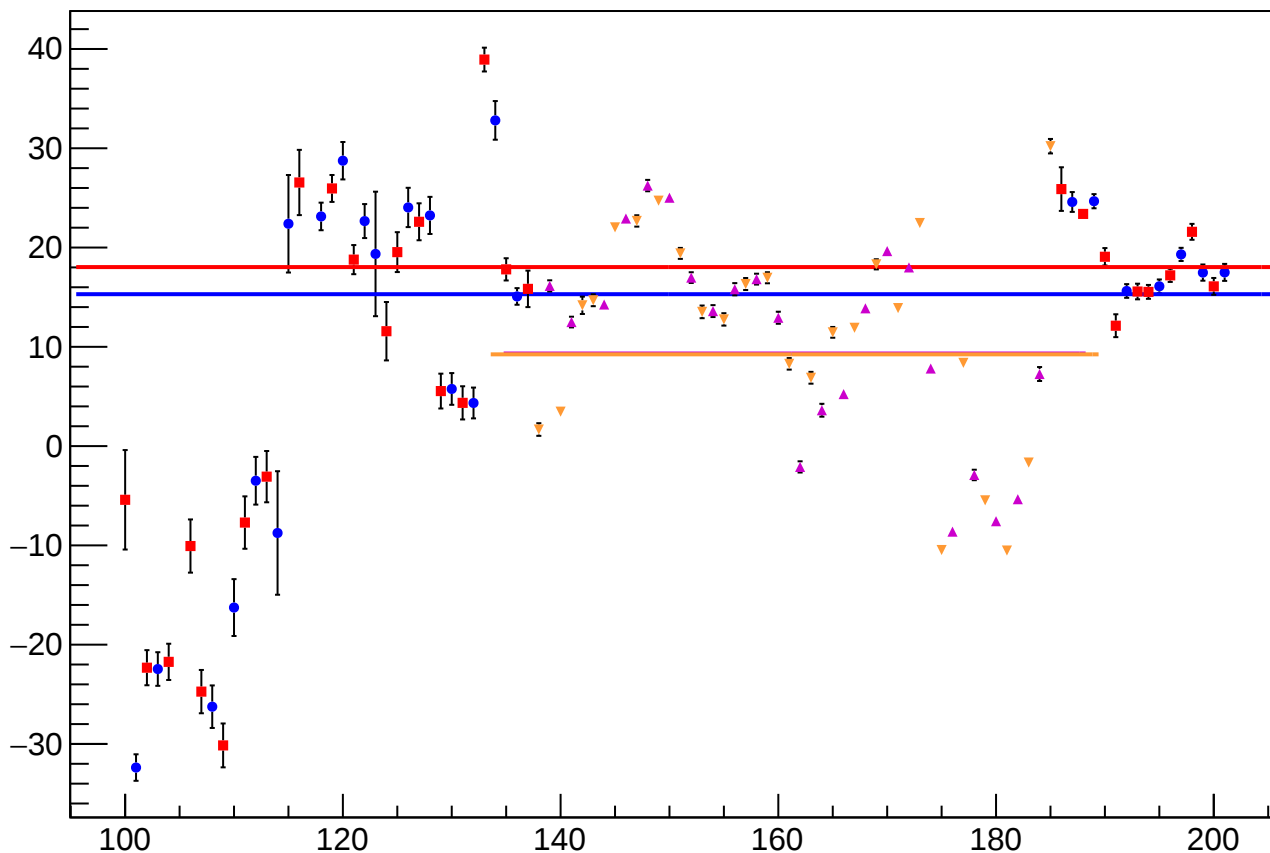
Right: -4.377 ± 0.127 $\chi^2/\text{NDF}: 40788.5/51$

In: 2.197 ± 0.074 $\chi^2/\text{NDF}: 27322.4/46$

Out: 2.303 ± 0.072 $\chi^2/\text{NDF}: 34501.3/52$

All: 2.252 ± 0.052 $\chi^2/\text{NDF}: 61824.8/99$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.302 $\pm$ 0.236 χ^2 /NDF: 2965.1/23

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 18.032 $\pm$ 0.193 χ^2 /NDF: 3002.0/27

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

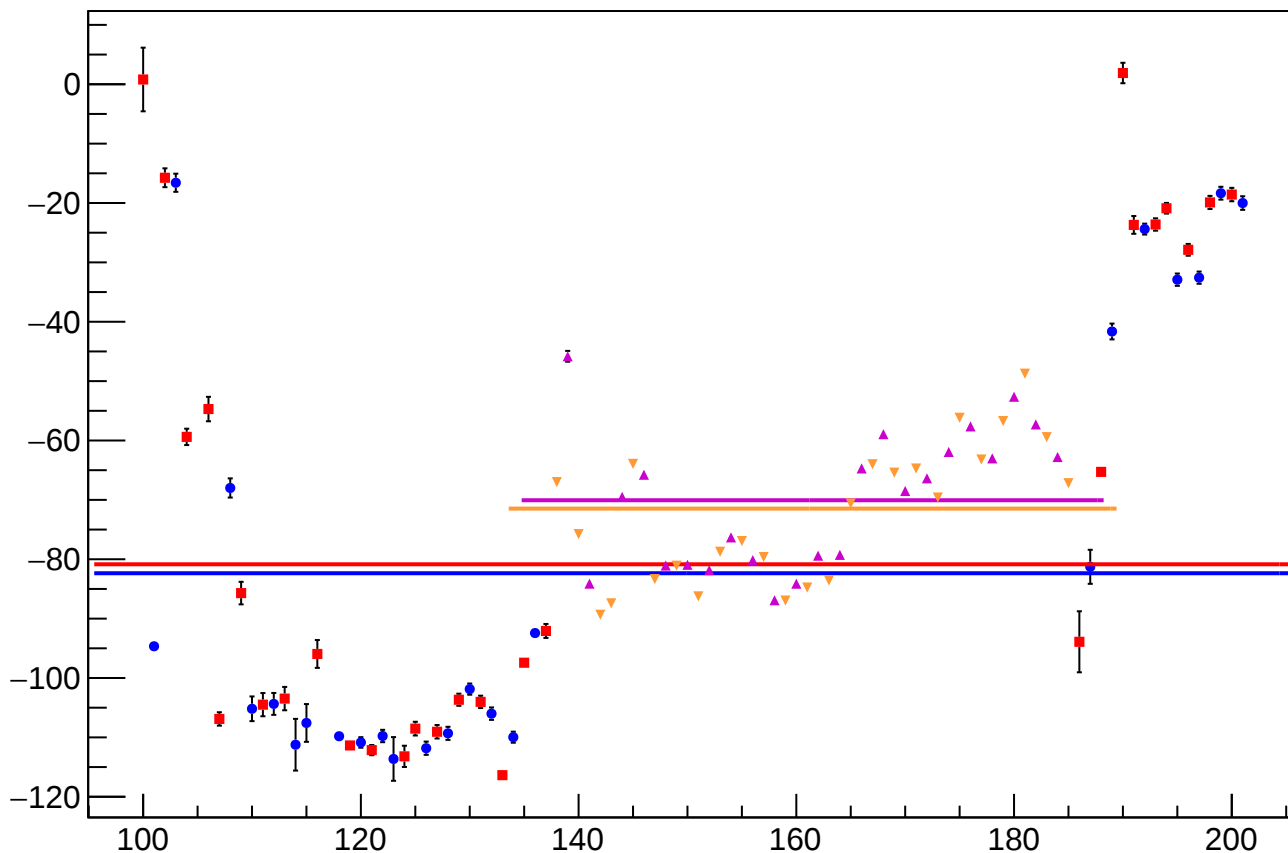
Right: 16.938 $\pm$ 0.149 χ^2 /NDF: 6047.6/51

In: 10.279 $\pm$ 0.094 χ^2 /NDF:15473.8/46

Out: 11.133 $\pm$ 0.089 χ^2 /NDF:18267.7/52

All: 10.728 $\pm$ 0.065 χ^2 /NDF: 33784.8/99

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -82.355 ± 0.217 χ^2/NDF : 25639.2/23

Left Out: -71.465 ± 0.089 χ^2/NDF : 16409.7/24

Right Out: -80.847 ± 0.206 χ^2/NDF : 34248.5/27

Left In: -70.061 ± 0.092 χ^2/NDF : 13058.5/22

Left: -70.782 ± 0.064 χ^2/NDF : 29588.5/47

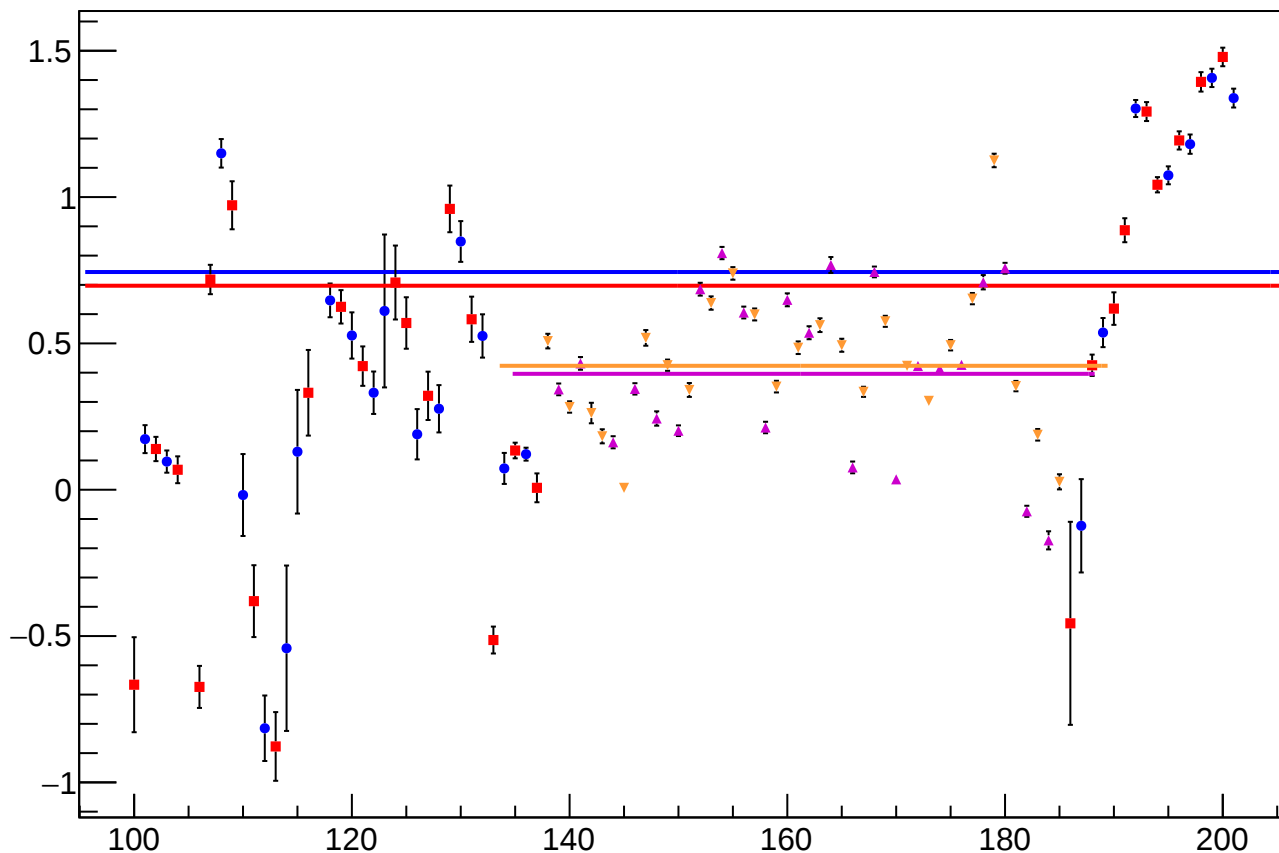
Right: -81.563 ± 0.150 χ^2/NDF : 59913.0/51

In: -71.924 ± 0.084 χ^2/NDF : 41420.1/46

Out: -72.945 ± 0.082 χ^2/NDF : 52399.5/52

All: -72.450 ± 0.059 χ^2/NDF : 93894.9/99

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.744 $\pm$ 0.010 χ^2 /NDF: 3335.0/23

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.697 $\pm$ 0.009 χ^2 /NDF: 4370.6/27

Left In: 0.396 $\pm$ 0.004 χ^2 /NDF:4051.5/22

Left: 0.410 $\pm$ 0.003 χ^2 /NDF: 6958.5/47

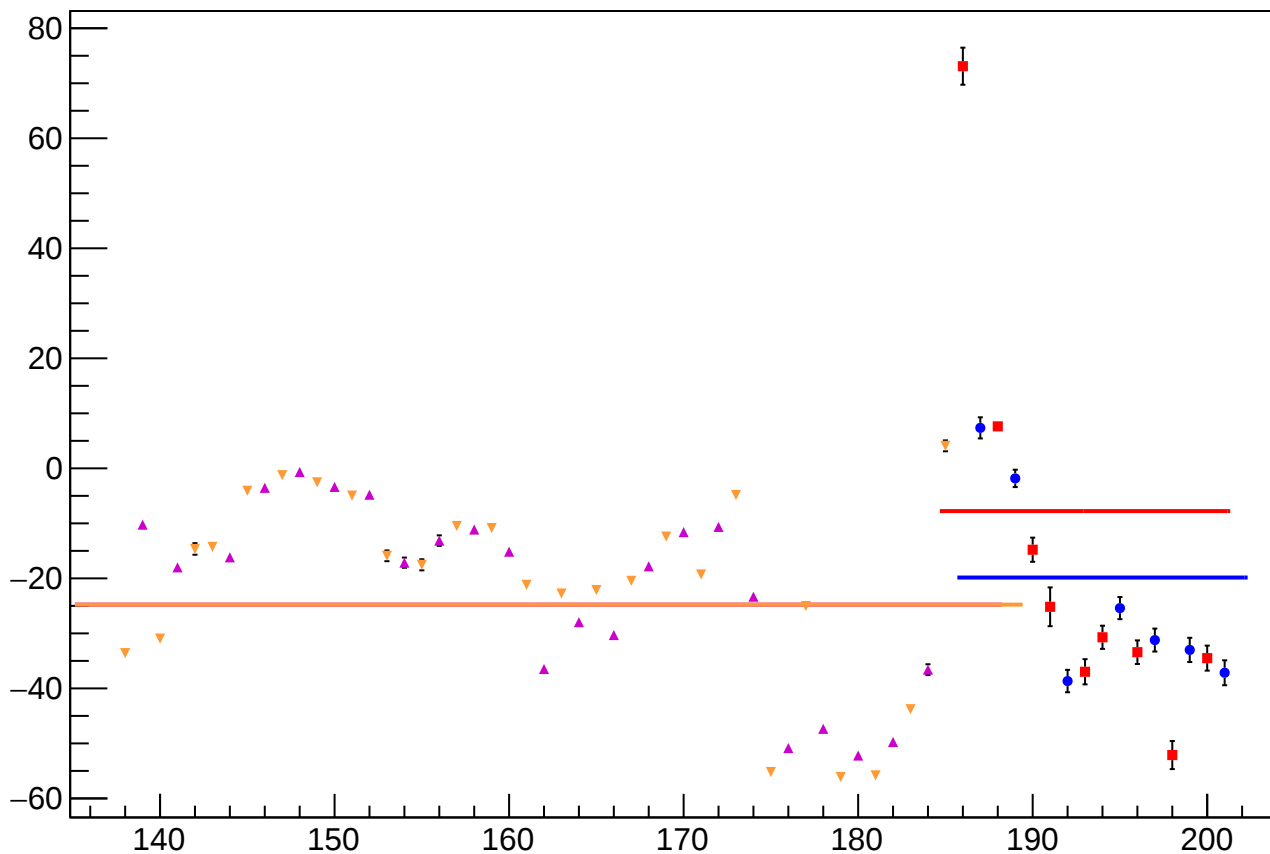
Right: 0.719 $\pm$ 0.007 χ^2 /NDF: 7718.5/51

In: 0.452 $\pm$ 0.004 χ^2 /NDF:8509.2/46

Out: 0.471 $\pm$ 0.004 χ^2 /NDF:8030.8/52

All: 0.462 $\pm$ 0.003 χ^2 /NDF: 16552.6/99

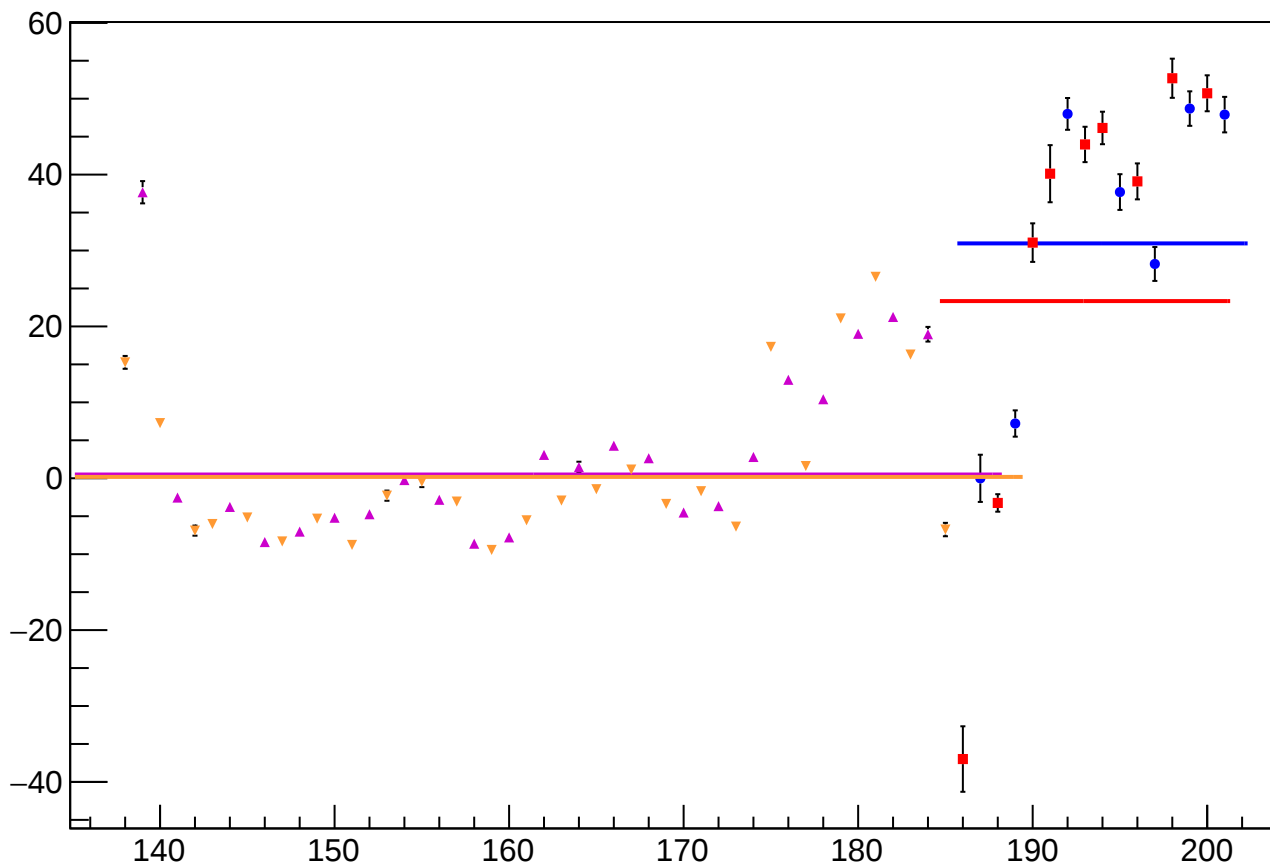
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.847 ± 0.747 $\chi^2/\text{NDF}: 547.5/6$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -7.768 ± 0.586 $\chi^2/\text{NDF}: 1845.1/8$
 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: -12.362 ± 0.461 $\chi^2/\text{NDF}: 2554.4/15$
 In: -24.601 ± 0.140 $\chi^2/\text{NDF}: 15396.9/29$
 Out: -23.857 ± 0.136 $\chi^2/\text{NDF}: 20961.5/33$
 All: -24.217 ± 0.097 $\chi^2/\text{NDF}: 36373.0/63$

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 30.937 $\pm$ 0.839 χ^2 /NDF: 476.3/6

Left Out: 0.177 $\pm$ 0.109 χ^2 /NDF:8295.6/24

Right Out: 23.339 $\pm$ 0.718 χ^2 /NDF: 1256.1/8

Left In: 0.493 $\pm$ 0.112 χ^2 /NDF:6555.4/22

Left: 0.330 $\pm$ 0.078 χ^2 /NDF: 14855.0/47

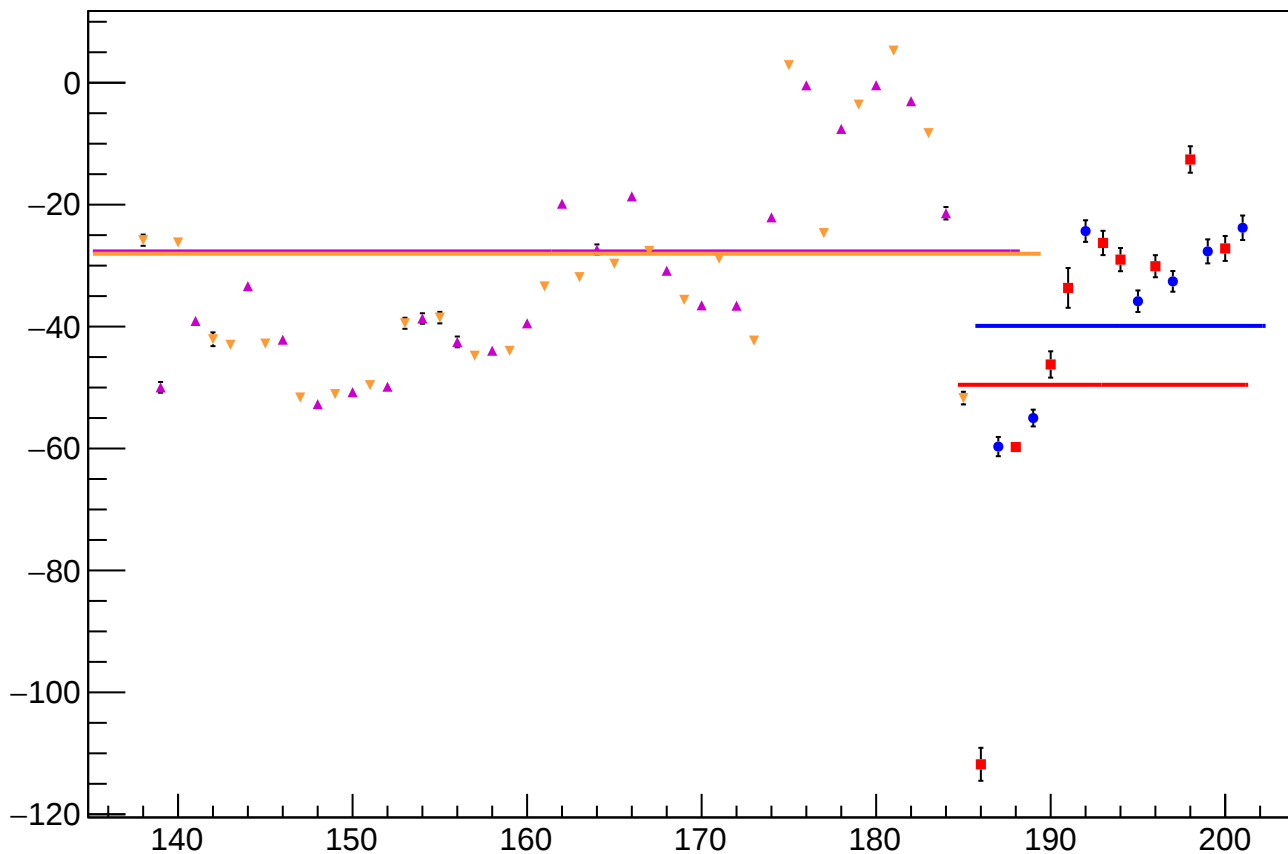
Right: 26.552 $\pm$ 0.545 χ^2 /NDF: 1779.8/15

In: 1.028 $\pm$ 0.111 χ^2 /NDF:8326.6/29

Out: 0.695 $\pm$ 0.107 χ^2 /NDF:10569.9/33

All: 0.856 $\pm$ 0.077 χ^2 /NDF: 18901.1/63

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -39.885 ± 0.643 χ^2/NDF : 481.4/6

Left Out: -28.050 ± 0.140 χ^2/NDF : 17144.5/24

Right Out: -49.550 ± 0.493 χ^2/NDF : 1581.6/8

Left In: -27.666 ± 0.142 χ^2/NDF : 15003.2/22

Left: -27.862 ± 0.100 χ^2/NDF : 32151.3/47

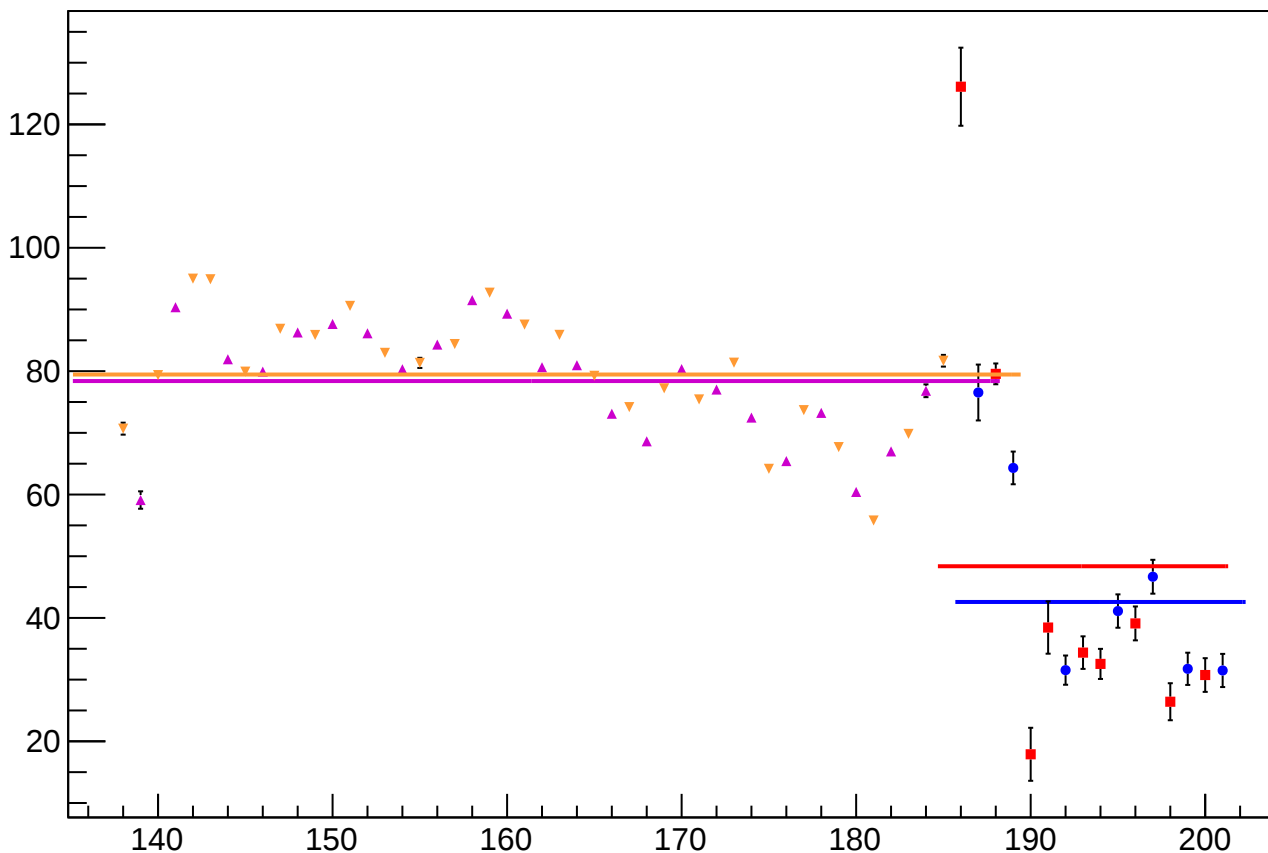
Right: -45.969 ± 0.391 χ^2/NDF : 2205.4/15

In: -28.239 ± 0.139 χ^2/NDF : 15829.2/29

Out: -29.652 ± 0.135 χ^2/NDF : 20486.1/33

All: -28.968 ± 0.097 χ^2/NDF : 36368.6/63

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.587 $\pm$ 1.041 χ^2 /NDF: 182.0/6

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 48.377 $\pm$ 0.922 χ^2 /NDF: 725.6/8

Left In: 78.396 $\pm$ 0.127 χ^2 /NDF: 4707.3/22

Left: 78.941 $\pm$ 0.088 χ^2 /NDF: 10820.4/47

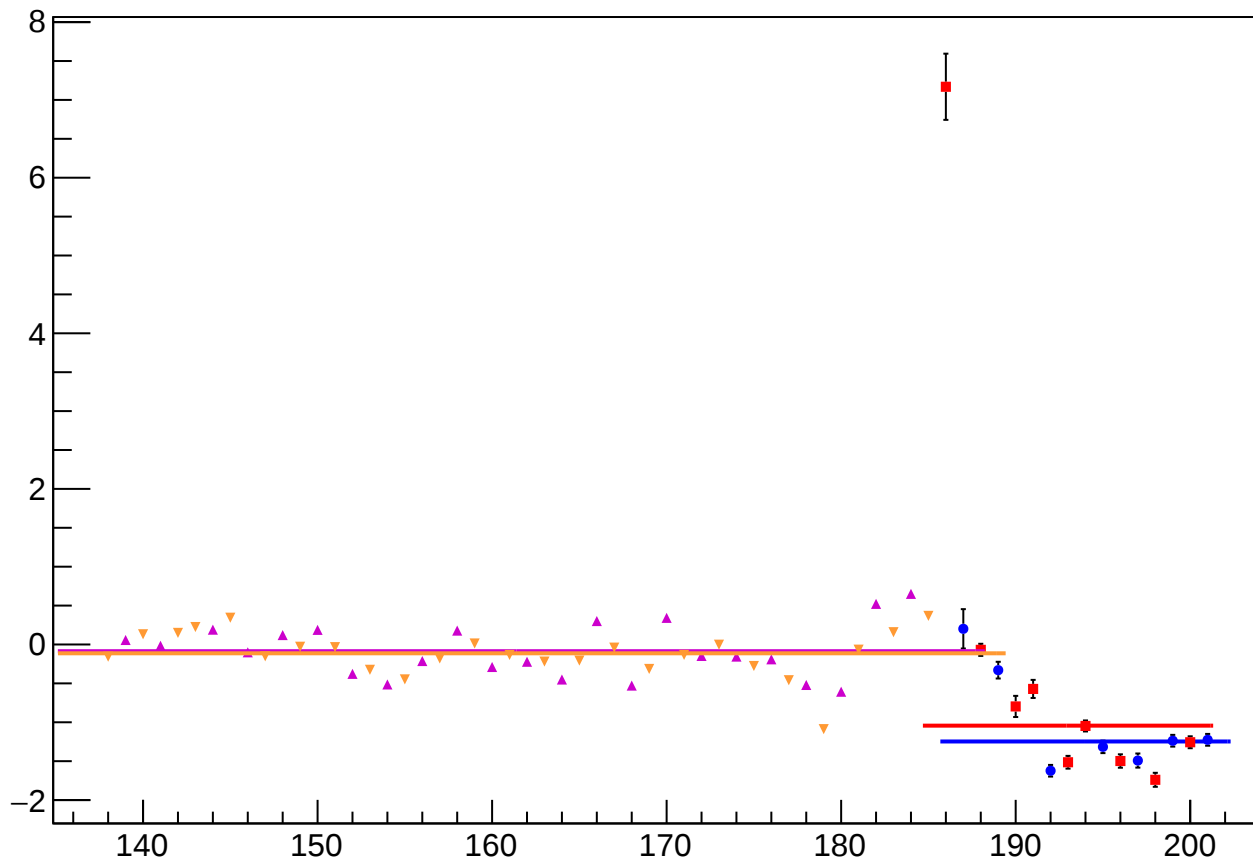
Right: 45.830 $\pm$ 0.690 χ^2 /NDF: 924.9/15

In: 77.873 $\pm$ 0.126 χ^2 /NDF: 6056.4/29

Out: 78.911 $\pm$ 0.122 χ^2 /NDF: 7918.7/33

All: 78.407 $\pm$ 0.088 χ^2 /NDF: 14010.2/63

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.247 ± 0.033 χ^2/NDF : 138.9/6

Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24

Right Out: -1.043 ± 0.030 χ^2/NDF : 677.7/8

Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47

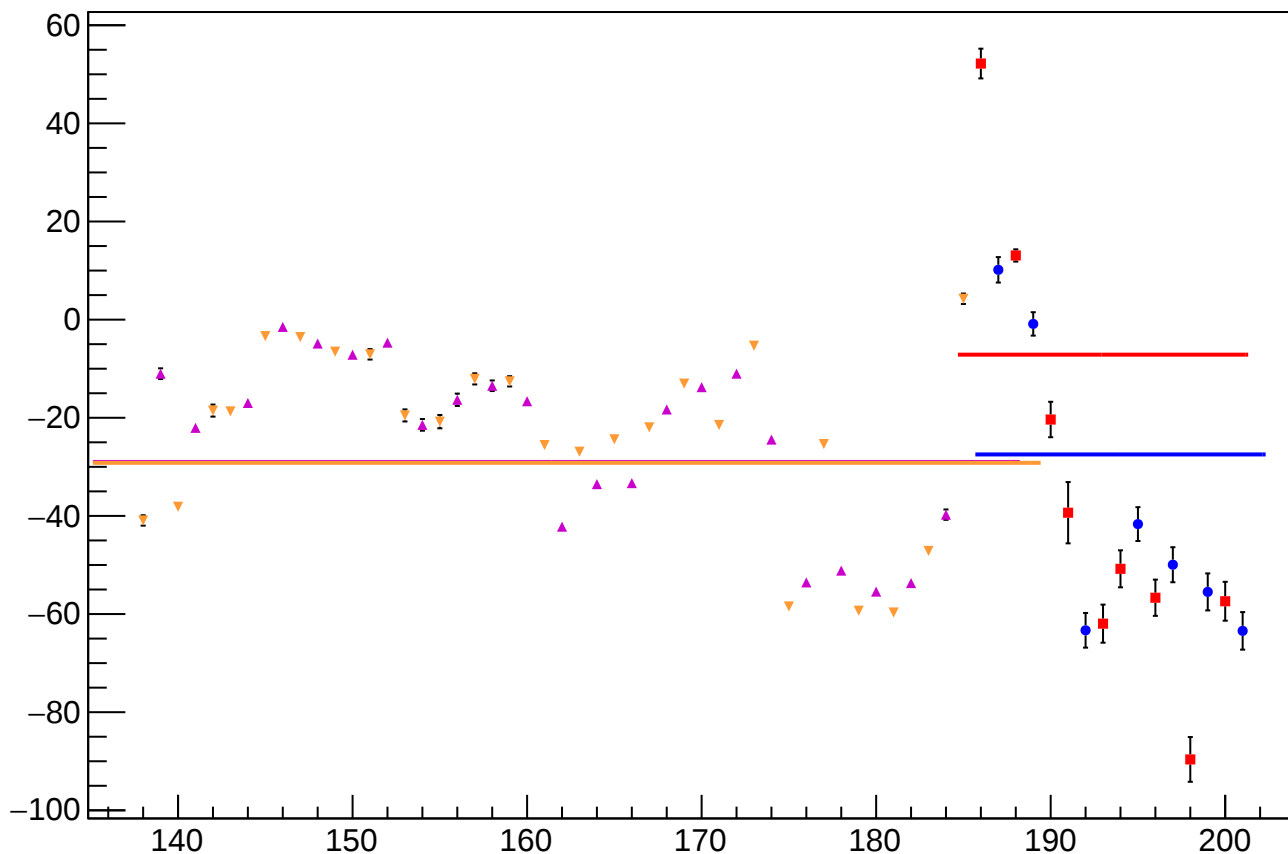
Right: -1.136 ± 0.022 χ^2/NDF : 837.0/15

In: -0.120 ± 0.006 χ^2/NDF : 4454.8/29

Out: -0.144 ± 0.006 χ^2/NDF : 3880.0/33

All: -0.133 ± 0.004 χ^2/NDF : 8343.9/63

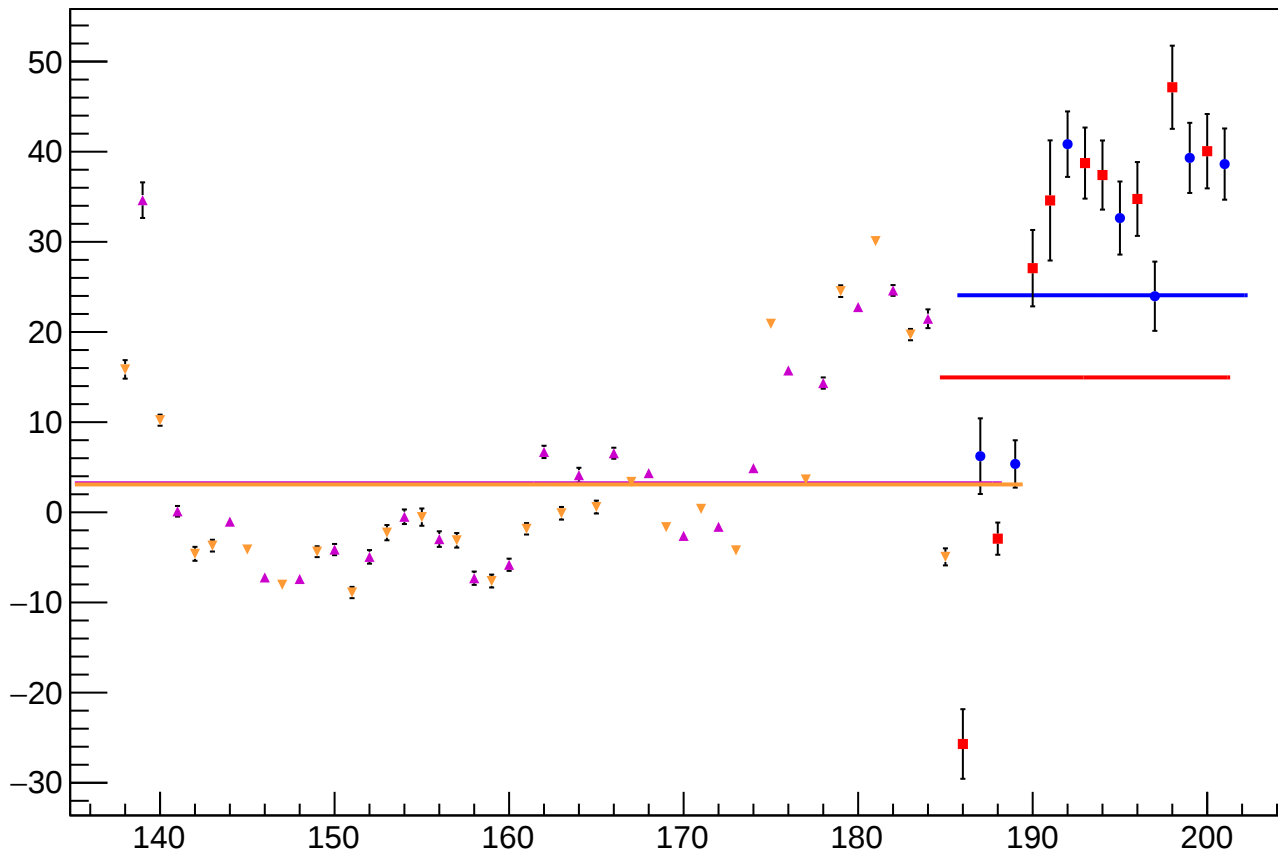
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -27.470 $\pm$ 1.191 χ^2 /NDF: 637.5/6
 Left Out: -29.180 $\pm$ 0.157 χ^2 /NDF:16912.2/24
 Right Out: -7.138 $\pm$ 0.924 χ^2 /NDF: 1685.8/8
 Left In: -29.003 $\pm$ 0.160 χ^2 /NDF:13416.8/22

Left: -29.093 $\pm$ 0.112 χ^2 /NDF: 30329.6/47
 Right: -14.783 $\pm$ 0.730 χ^2 /NDF: 2505.4/15
 In: -28.975 $\pm$ 0.158 χ^2 /NDF:14055.9/29
 Out: -28.564 $\pm$ 0.155 χ^2 /NDF:19151.1/33
 All: -28.765 $\pm$ 0.111 χ^2 /NDF: 33210.5/63

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 24.075 ± 1.365 $\chi^2/\text{NDF}: 123.5/6$

Left Out: 3.091 ± 0.124 $\chi^2/\text{NDF}: 8084.1/24$

Right Out: 14.962 ± 1.149 $\chi^2/\text{NDF}: 407.9/8$

Left In: 3.221 ± 0.127 $\chi^2/\text{NDF}: 6237.6/22$

Left: 3.155 ± 0.089 $\chi^2/\text{NDF}: 14322.2/47$

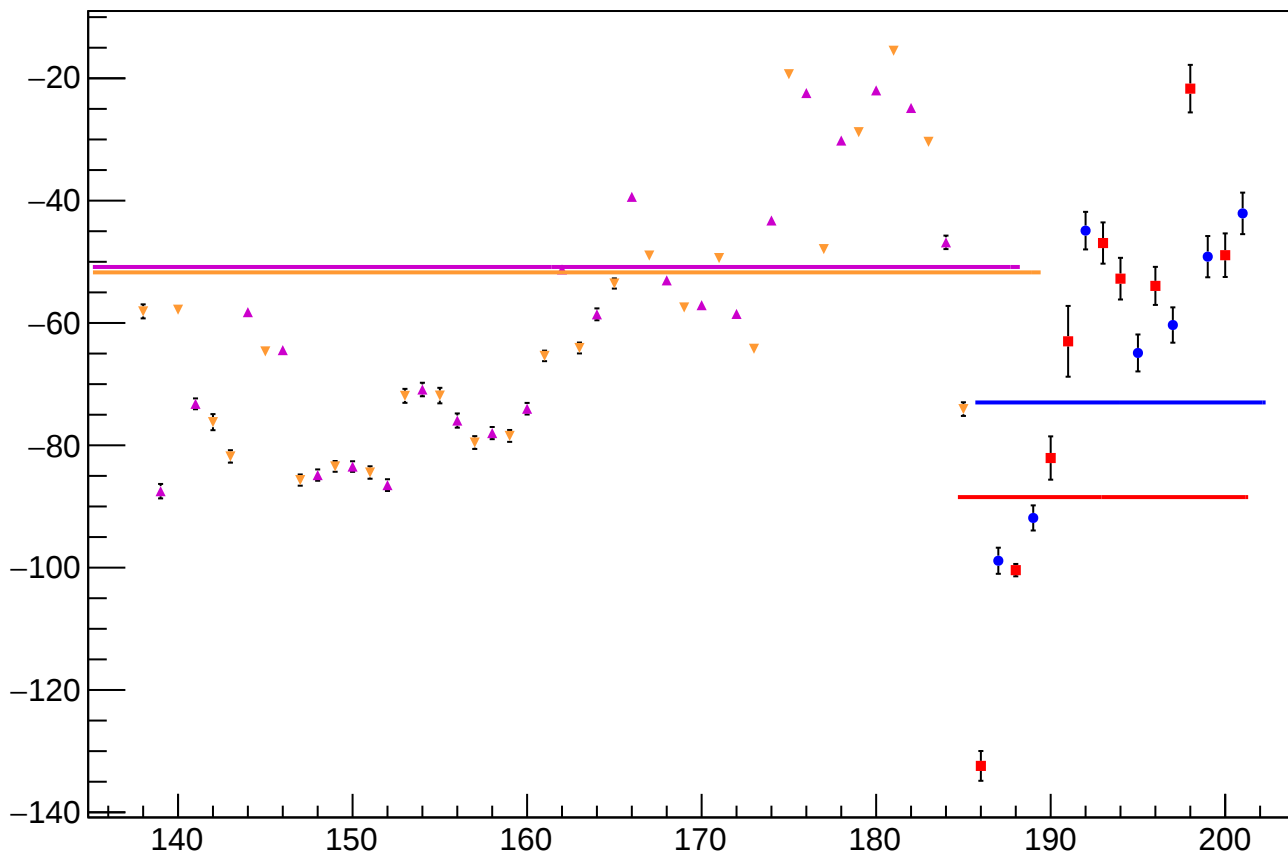
Right: 18.742 ± 0.879 $\chi^2/\text{NDF}: 557.4/15$

In: 3.400 ± 0.126 $\chi^2/\text{NDF}: 6592.4/29$

Out: 3.228 ± 0.124 $\chi^2/\text{NDF}: 8597.4/33$

All: 3.312 ± 0.088 $\chi^2/\text{NDF}: 15190.7/63$

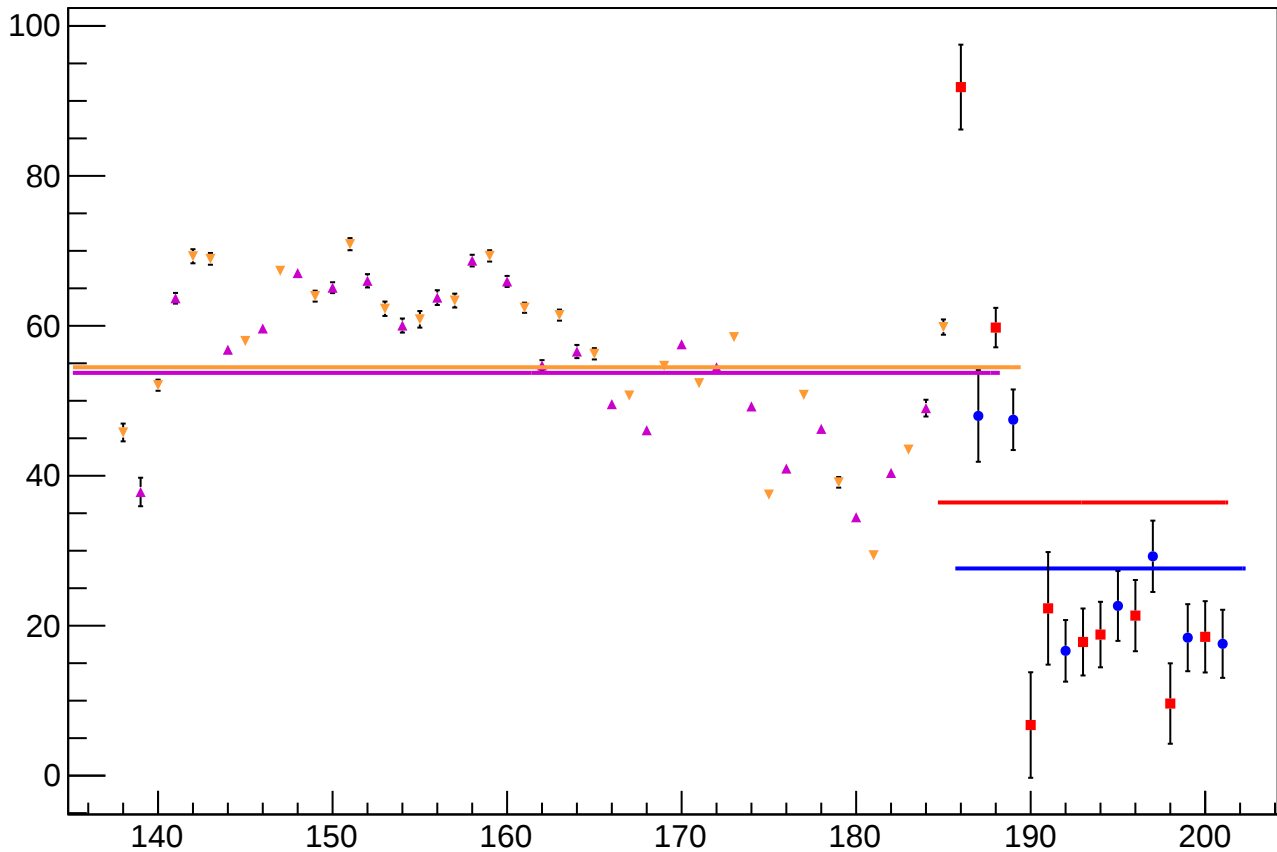
reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.995 ± 1.017 $\chi^2/\text{NDF}: 474.6/6$
 Left Out: -51.729 ± 0.158 $\chi^2/\text{NDF}: 19538.0/24$
 Right Out: -88.467 ± 0.772 $\chi^2/\text{NDF}: 1291.1/8$
 Left In: -50.844 ± 0.160 $\chi^2/\text{NDF}: 17272.0/22$

Left: -51.293 ± 0.112 $\chi^2/\text{NDF}: 36825.5/47$
 Right: -82.813 ± 0.615 $\chi^2/\text{NDF}: 1912.6/15$
 In: -51.380 ± 0.158 $\chi^2/\text{NDF}: 18209.7/29$
 Out: -53.205 ± 0.155 $\chi^2/\text{NDF}: 23004.7/33$
 All: -52.313 ± 0.111 $\chi^2/\text{NDF}: 41282.5/63$

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 27.635 $\pm$ 1.725 χ^2 /NDF: 52.7/6

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF: 6266.9/24

Right Out: 36.436 $\pm$ 1.509 χ^2 /NDF: 278.7/8

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

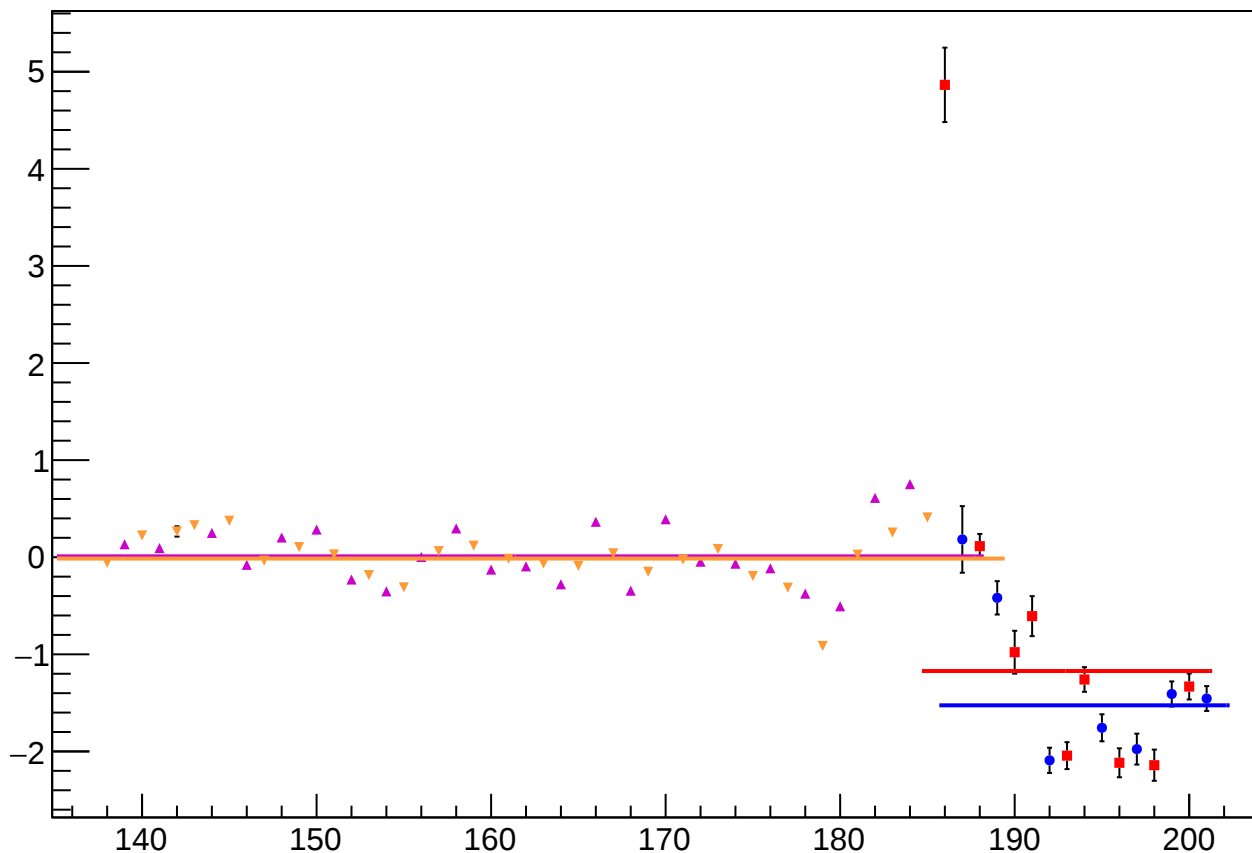
Right: 32.623 $\pm$ 1.136 χ^2 /NDF: 346.2/15

In: 53.545 $\pm$ 0.143 χ^2 /NDF: 4865.5/29

Out: 54.322 $\pm$ 0.140 χ^2 /NDF: 6687.3/33

All: 53.942 $\pm$ 0.100 χ^2 /NDF: 11568.0/63

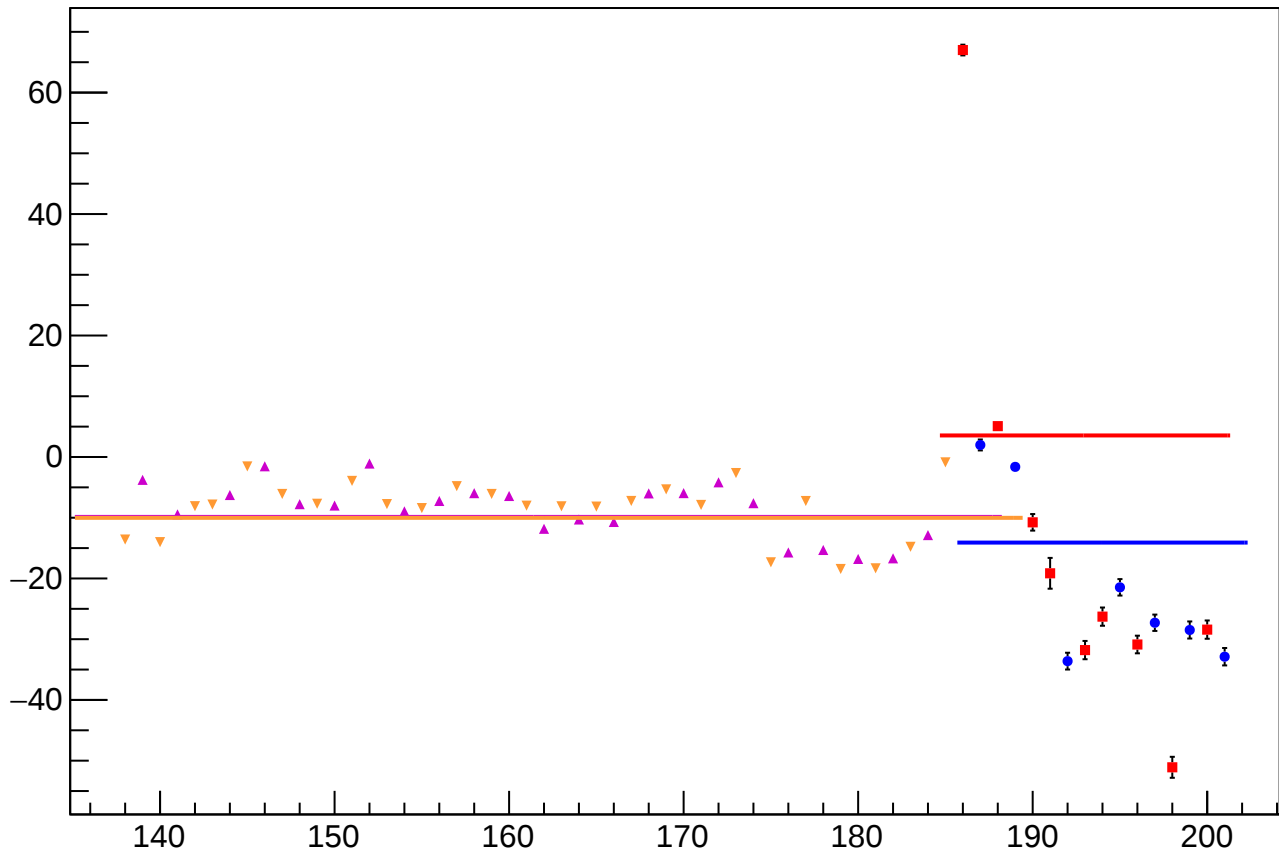
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.525 ± 0.056 $\chi^2/\text{NDF}: 97.2/6$
 Left Out: -0.014 ± 0.006 $\chi^2/\text{NDF}: 1654.7/24$
 Right Out: -1.172 ± 0.052 $\chi^2/\text{NDF}: 479.2/8$
 Left In: 0.009 ± 0.007 $\chi^2/\text{NDF}: 2220.5/22$

Left: -0.003 ± 0.005 $\chi^2/\text{NDF}: 3881.4/47$
 Right: -1.334 ± 0.038 $\chi^2/\text{NDF}: 597.6/15$
 In: -0.011 ± 0.007 $\chi^2/\text{NDF}: 3046.2/29$
 Out: -0.031 ± 0.006 $\chi^2/\text{NDF}: 2620.3/33$
 All: -0.021 ± 0.005 $\chi^2/\text{NDF}: 5671.2/63$

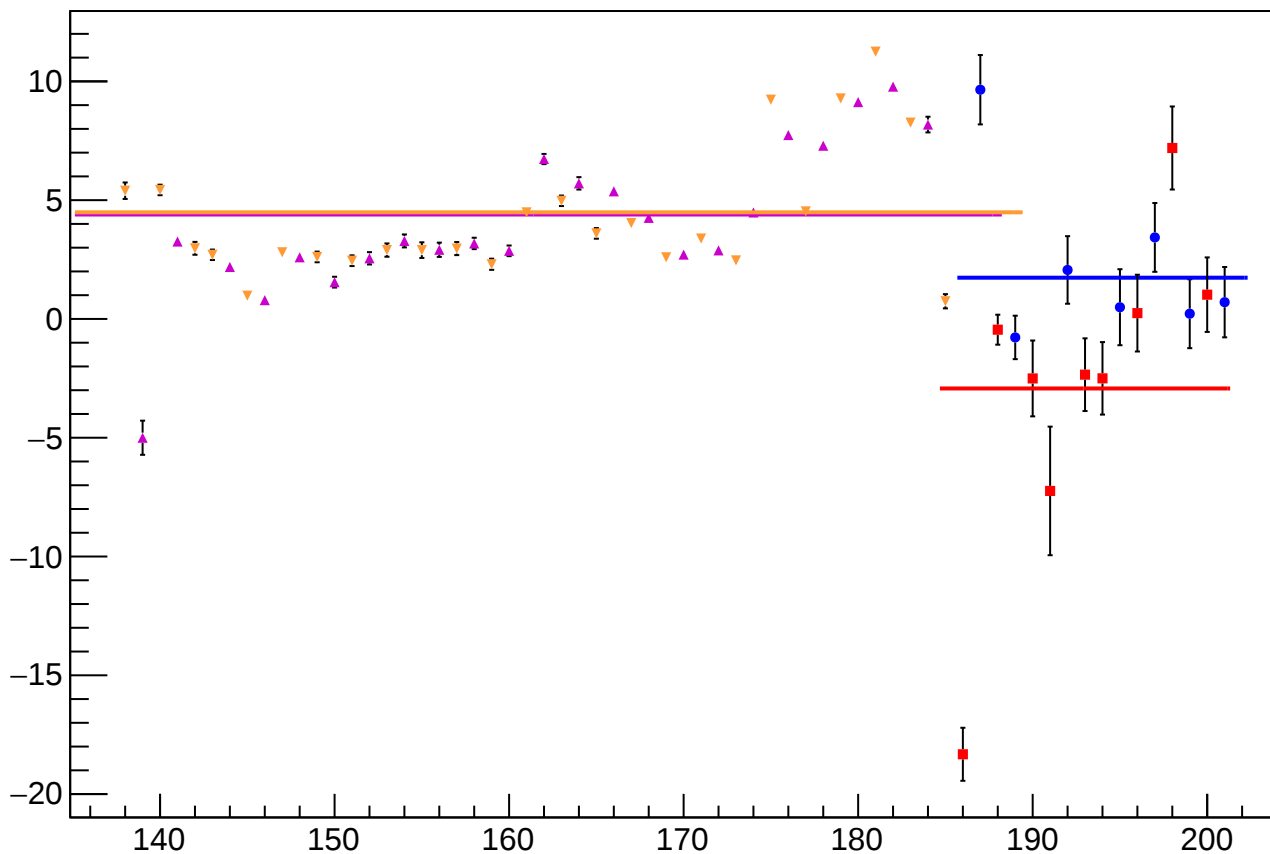
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.092 ± 0.434 $\chi^2/\text{NDF}: 1145.8/6$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: 3.547 ± 0.331 $\chi^2/\text{NDF}: 8302.9/8$
 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: -2.926 ± 0.263 $\chi^2/\text{NDF}: 10492.4/15$
 In: -9.924 ± 0.051 $\chi^2/\text{NDF}: 10584.5/29$
 Out: -9.706 ± 0.050 $\chi^2/\text{NDF}: 22499.0/33$
 All: -9.813 ± 0.036 $\chi^2/\text{NDF}: 33092.7/63$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.736 ± 0.503 $\chi^2/\text{NDF}: 40.5/6$

Left Out: 4.489 ± 0.041 $\chi^2/\text{NDF}: 4832.3/24$

Right Out: -2.927 ± 0.415 $\chi^2/\text{NDF}: 252.3/8$

Left In: 4.396 ± 0.041 $\chi^2/\text{NDF}: 4230.4/22$

Left: 4.443 ± 0.029 $\chi^2/\text{NDF}: 9065.3/47$

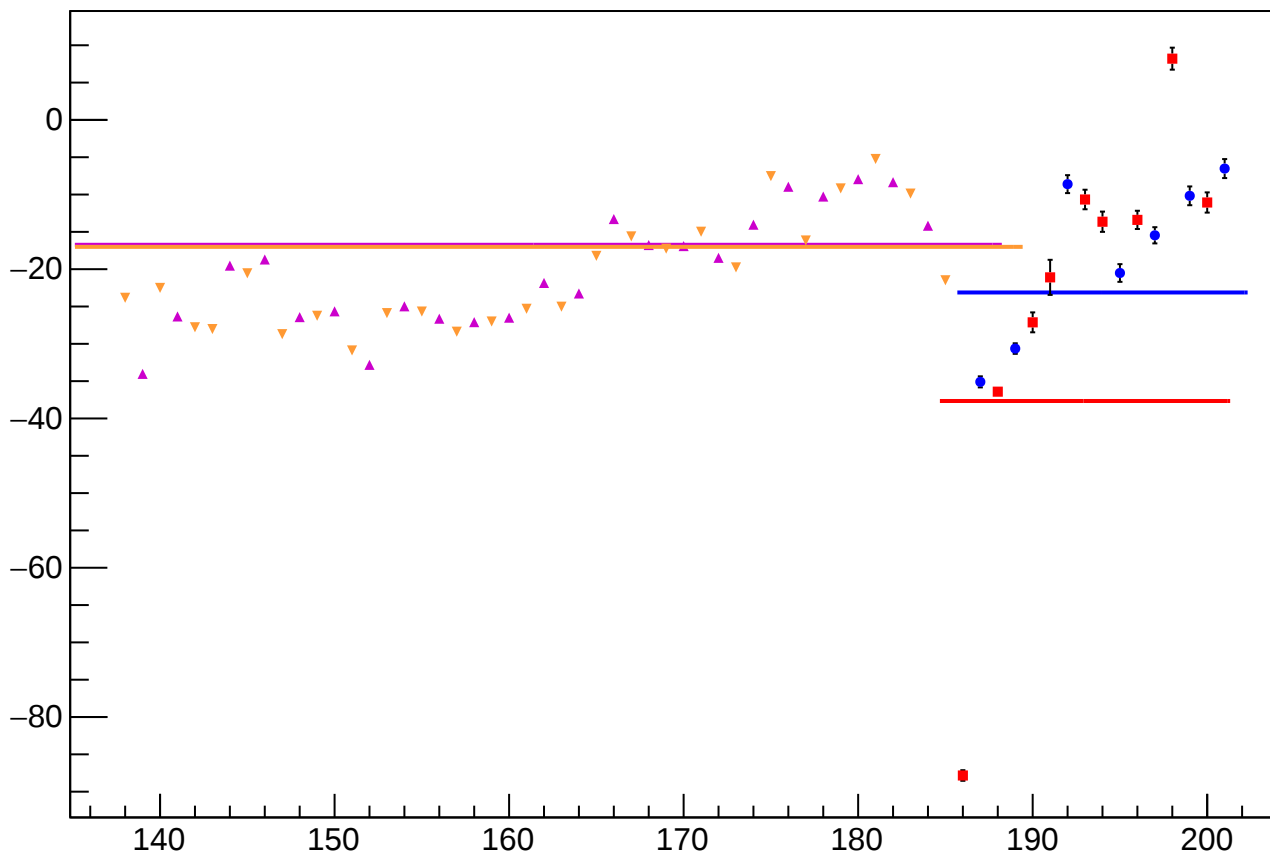
Right: -1.039 ± 0.320 $\chi^2/\text{NDF}: 344.0/15$

In: 4.378 ± 0.041 $\chi^2/\text{NDF}: 4298.7/29$

Out: 4.418 ± 0.040 $\chi^2/\text{NDF}: 5401.5/33$

All: 4.398 ± 0.029 $\chi^2/\text{NDF}: 9700.7/63$

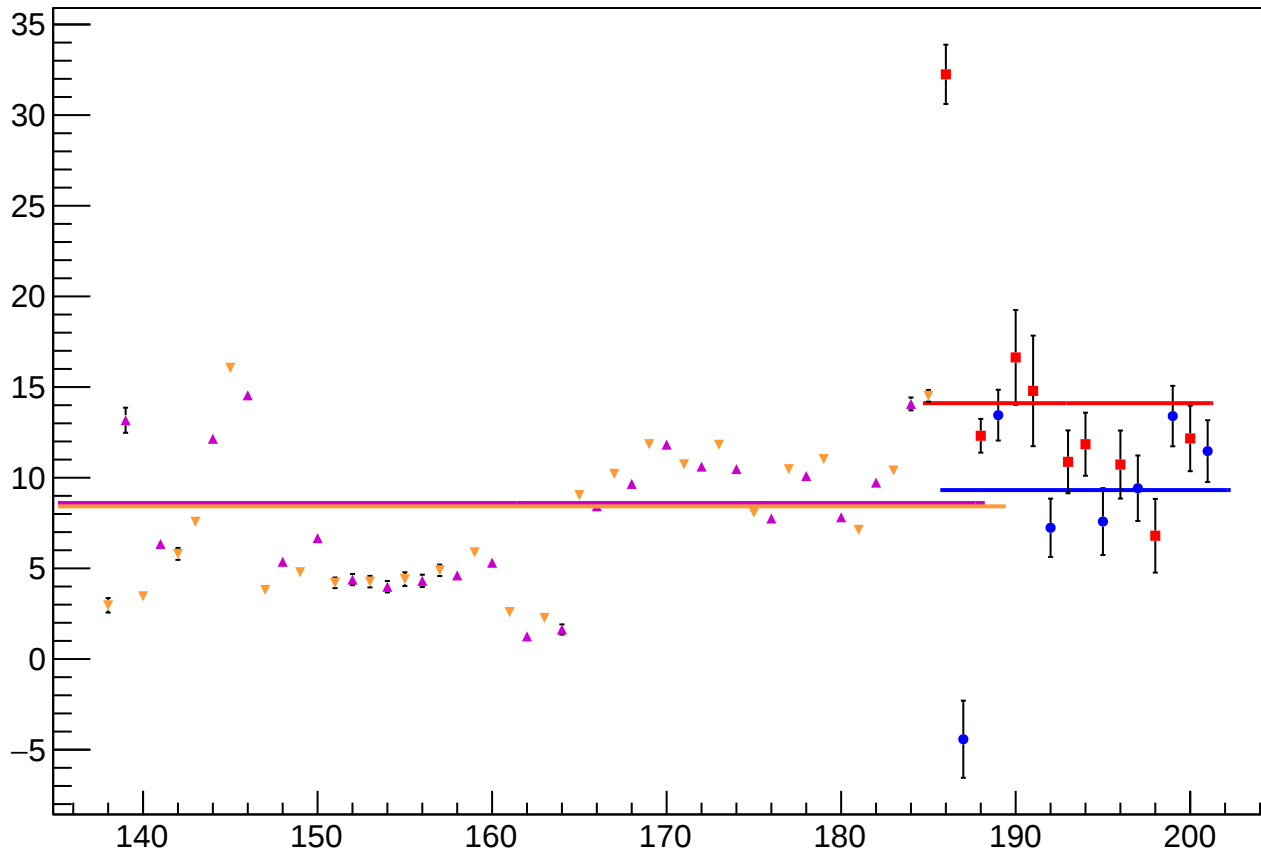
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -23.120 ± 0.369 $\chi^2/\text{NDF}: 850.8/6$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -37.659 ± 0.275 $\chi^2/\text{NDF}: 7593.3/8$
 Left In: -16.732 ± 0.052 $\chi^2/\text{NDF}: 18777.2/22$

Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$
 Right: -32.486 ± 0.220 $\chi^2/\text{NDF}: 9441.6/15$
 In: -16.853 ± 0.051 $\chi^2/\text{NDF}: 19921.3/29$
 Out: -17.699 ± 0.050 $\chi^2/\text{NDF}: 35154.2/33$
 All: -17.283 ± 0.036 $\chi^2/\text{NDF}: 55214.9/63$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Left: 8.513 ± 0.032 $\chi^2/\text{NDF}: 11982.4/47$

Right: 12.075 ± 0.419 $\chi^2/\text{NDF}: 242.8/15$

In: 8.610 ± 0.046 $\chi^2/\text{NDF}: 5566.0/29$

Out: 8.460 ± 0.045 $\chi^2/\text{NDF}: 6725.8/33$

All: 8.534 ± 0.032 $\chi^2/\text{NDF}: 12297.1/63$

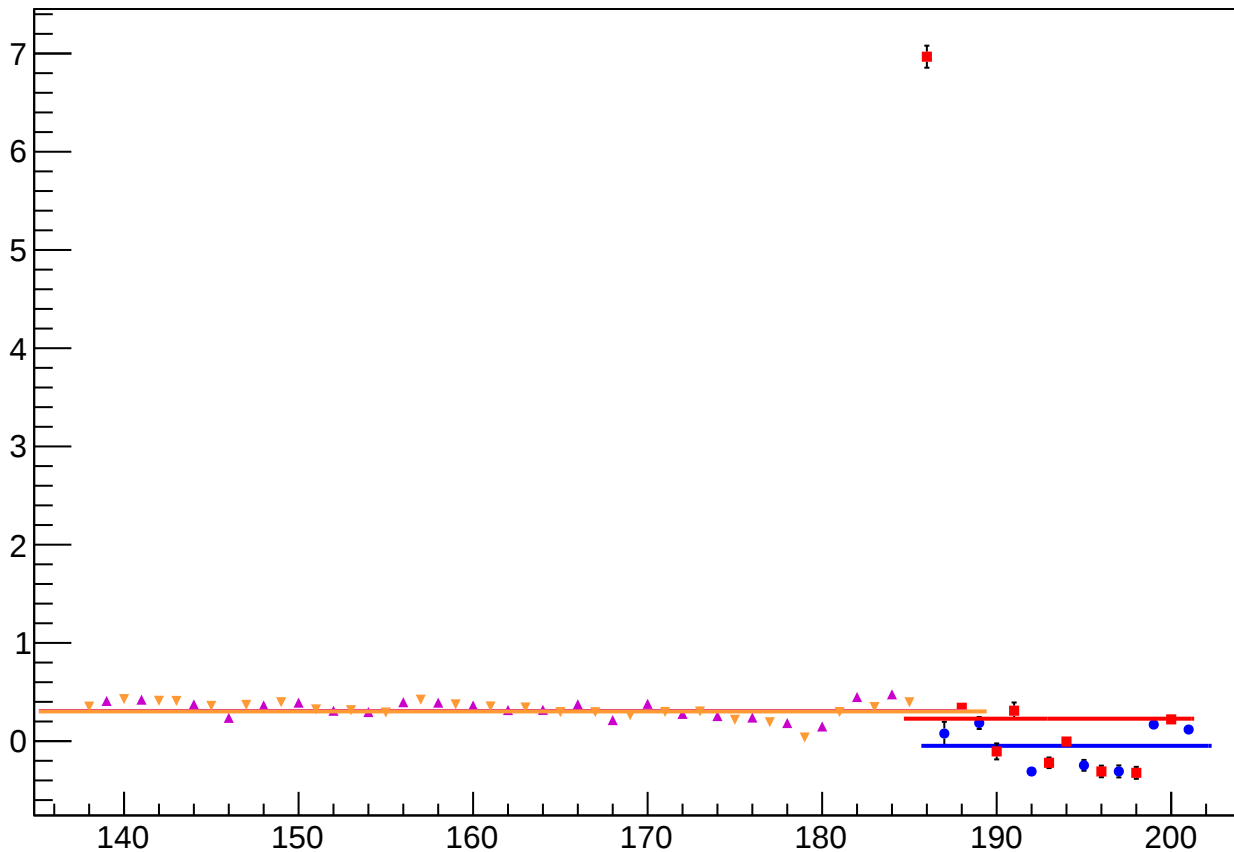
Right In: 9.319 ± 0.642 $\chi^2/\text{NDF}: 60.5/6$

Left Out: 8.422 ± 0.046 $\chi^2/\text{NDF}: 6470.1/24$

Right Out: 14.113 ± 0.552 $\chi^2/\text{NDF}: 150.3/8$

Left In: 8.606 ± 0.046 $\chi^2/\text{NDF}: 5504.2/22$

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.048+/-0.021 χ^2/NDF : 105.3/6

Left Out: 0.302+/-0.002 χ^2/NDF :1590.9/24

Right Out: 0.229+/-0.020 χ^2/NDF : 3887.7/8

Left In: 0.307+/-0.002 χ^2/NDF :1699.5/22

Left: 0.305+/-0.001 χ^2/NDF : 3293.0/47

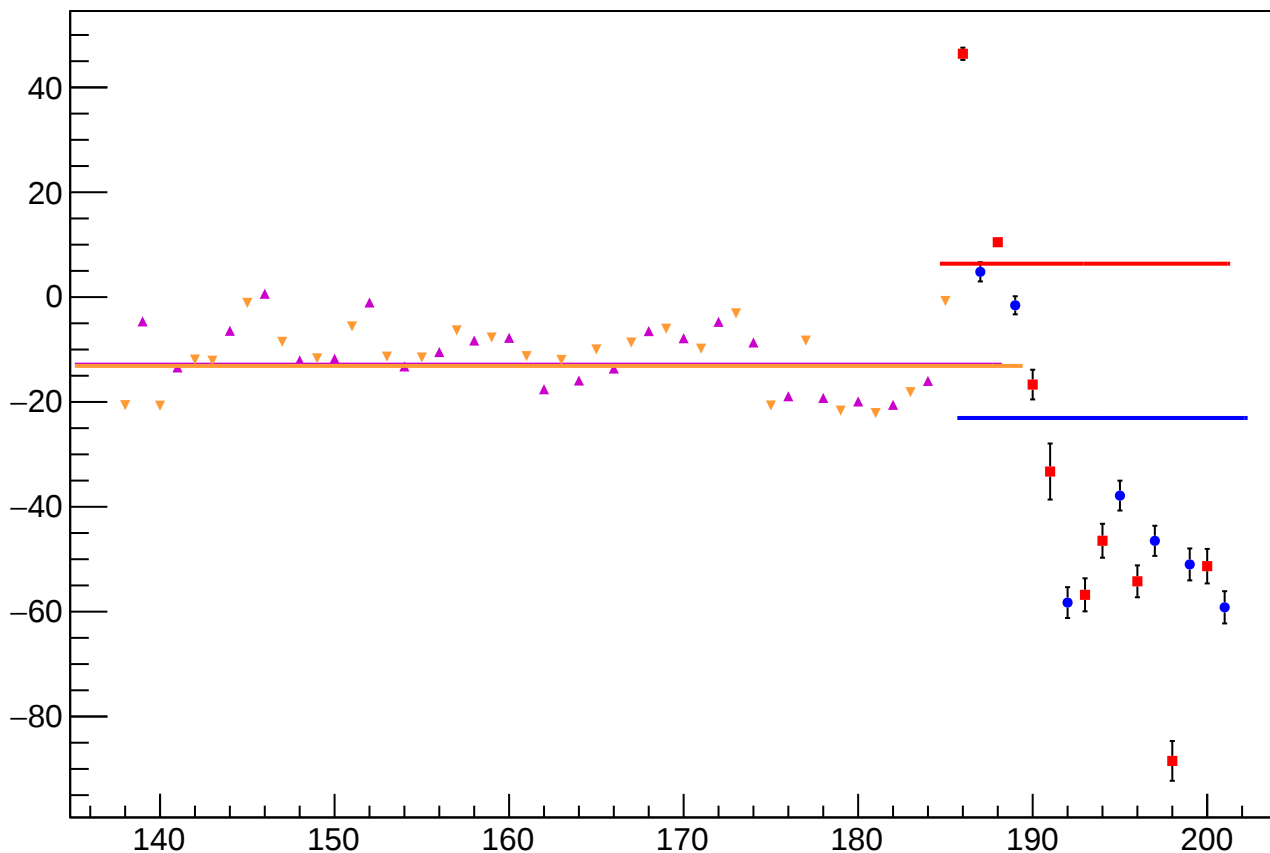
Right: 0.101+/-0.015 χ^2/NDF : 4083.0/15

In: 0.304+/-0.002 χ^2/NDF :2077.8/29

Out: 0.302+/-0.002 χ^2/NDF :5492.4/33

All: 0.303+/-0.001 χ^2/NDF : 7570.7/63

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.056 ± 0.910 $\chi^2/\text{NDF}: 845.9/6$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: 6.375 ± 0.631 $\chi^2/\text{NDF}: 3316.5/8$
 Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

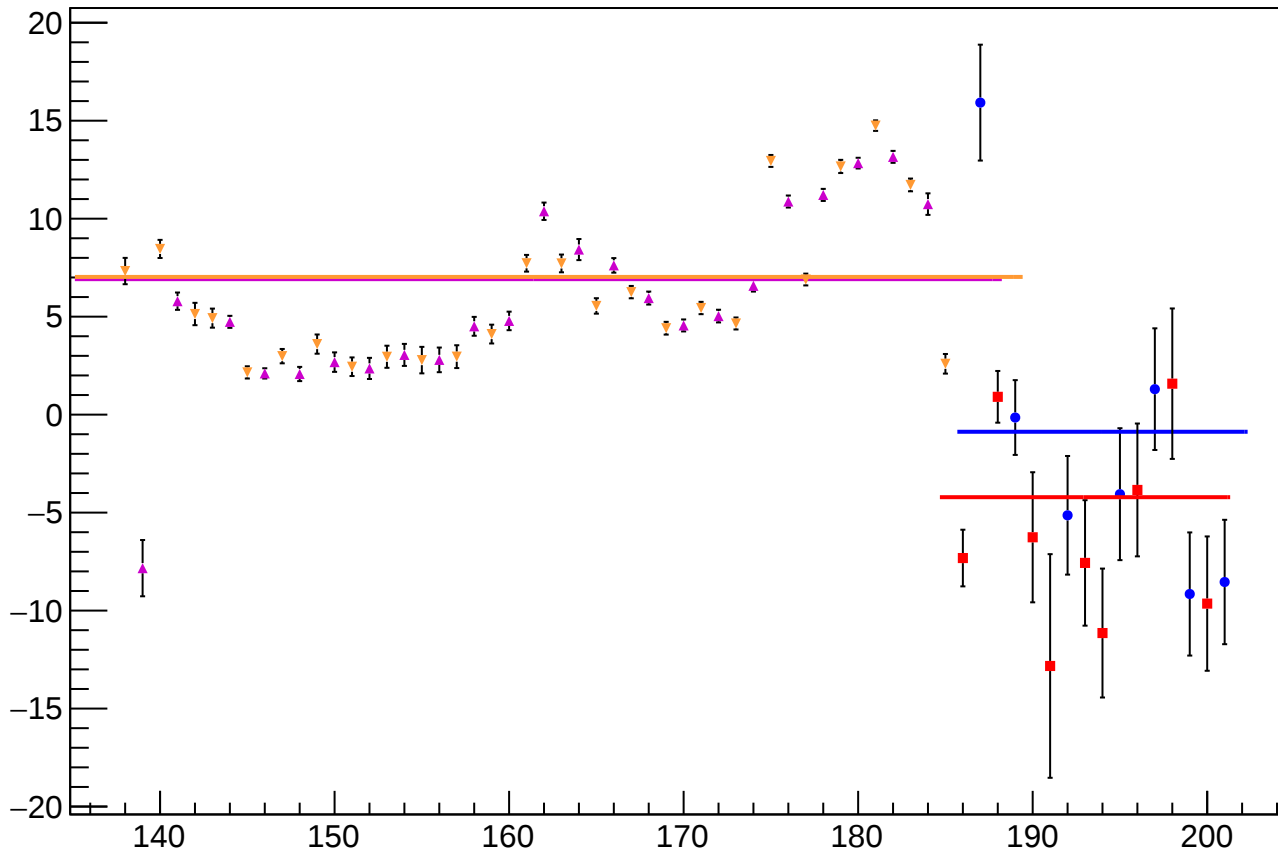
Right: -3.182 ± 0.519 $\chi^2/\text{NDF}: 4868.8/15$

In: -12.995 ± 0.095 $\chi^2/\text{NDF}: 5745.7/29$

Out: -12.705 ± 0.093 $\chi^2/\text{NDF}: 10228.5/33$

All: -12.847 ± 0.066 $\chi^2/\text{NDF}: 15979.0/63$

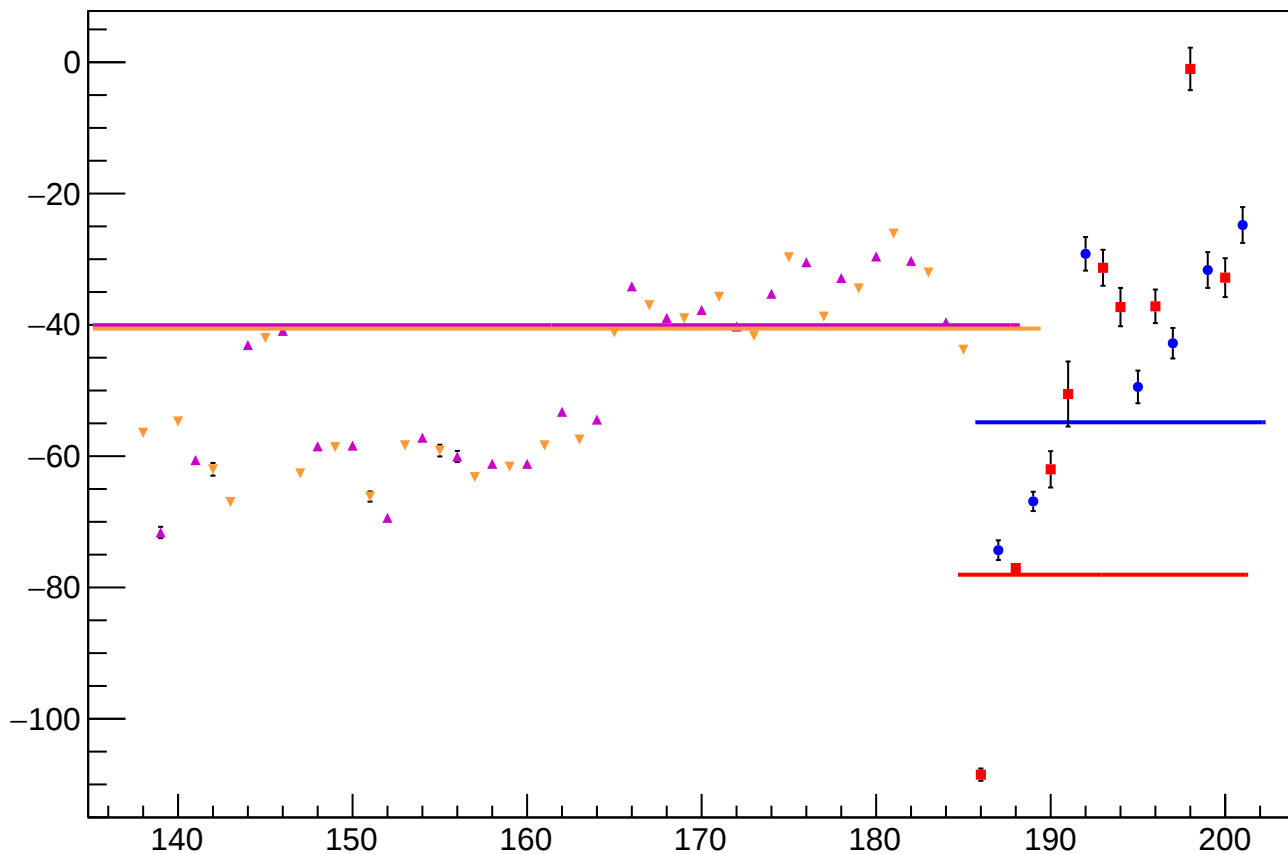
reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.874 ± 1.060 χ^2/NDF : 48.6/6
 Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24
 Right Out: -4.213 ± 0.790 χ^2/NDF : 32.7/8
 Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47
 Right: -3.021 ± 0.633 χ^2/NDF : 87.6/15
 In: 6.872 ± 0.078 χ^2/NDF : 2530.5/29
 Out: 6.921 ± 0.077 χ^2/NDF : 2898.8/33
 All: 6.897 ± 0.055 χ^2/NDF : 5429.5/63

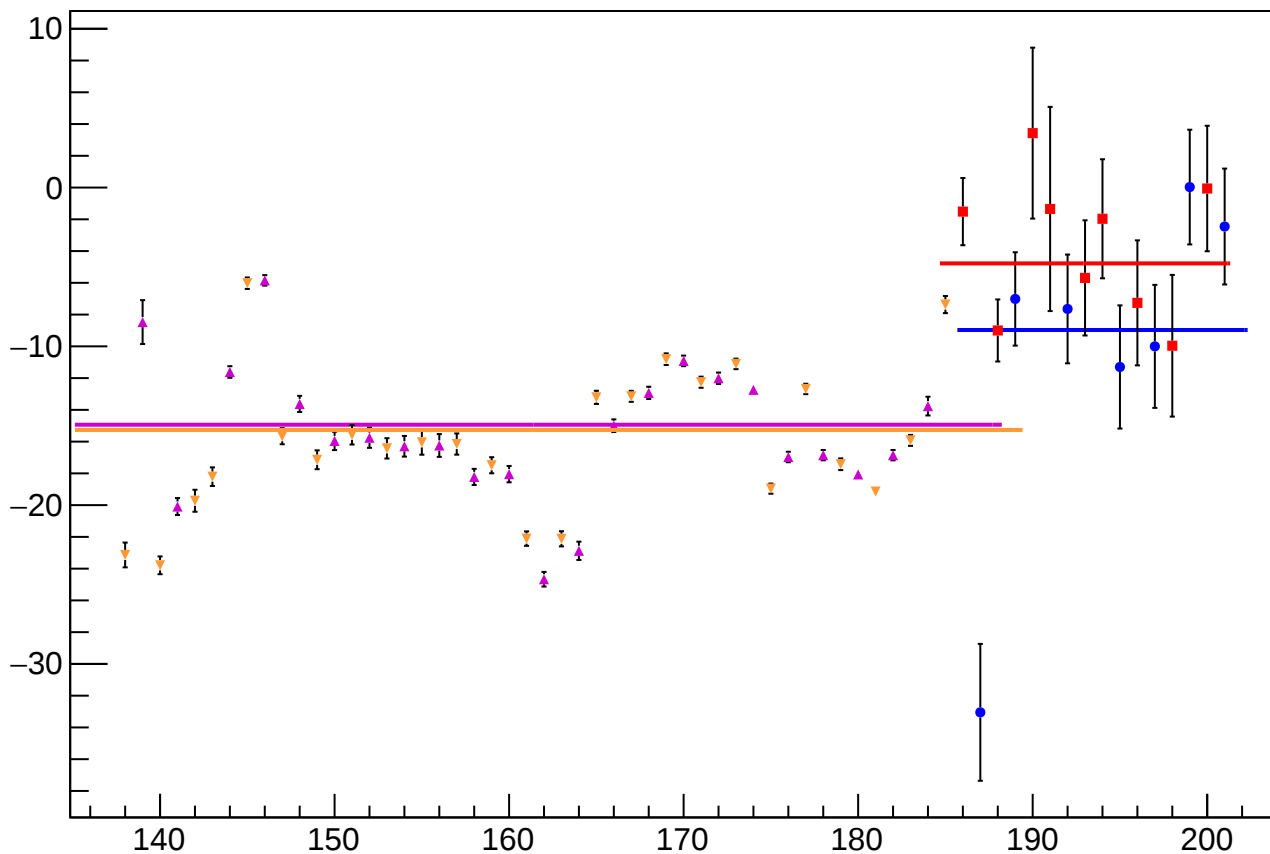
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -54.837 ± 0.773 χ^2/NDF : 560.8/6
 Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24
 Right Out: -78.055 ± 0.520 χ^2/NDF : 2667.2/8
 Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47
 Right: -70.821 ± 0.432 χ^2/NDF : 3848.9/15
 In: -40.276 ± 0.095 χ^2/NDF : 14848.3/29
 Out: -41.767 ± 0.093 χ^2/NDF : 23334.2/33
 All: -41.035 ± 0.067 χ^2/NDF : 38308.0/63

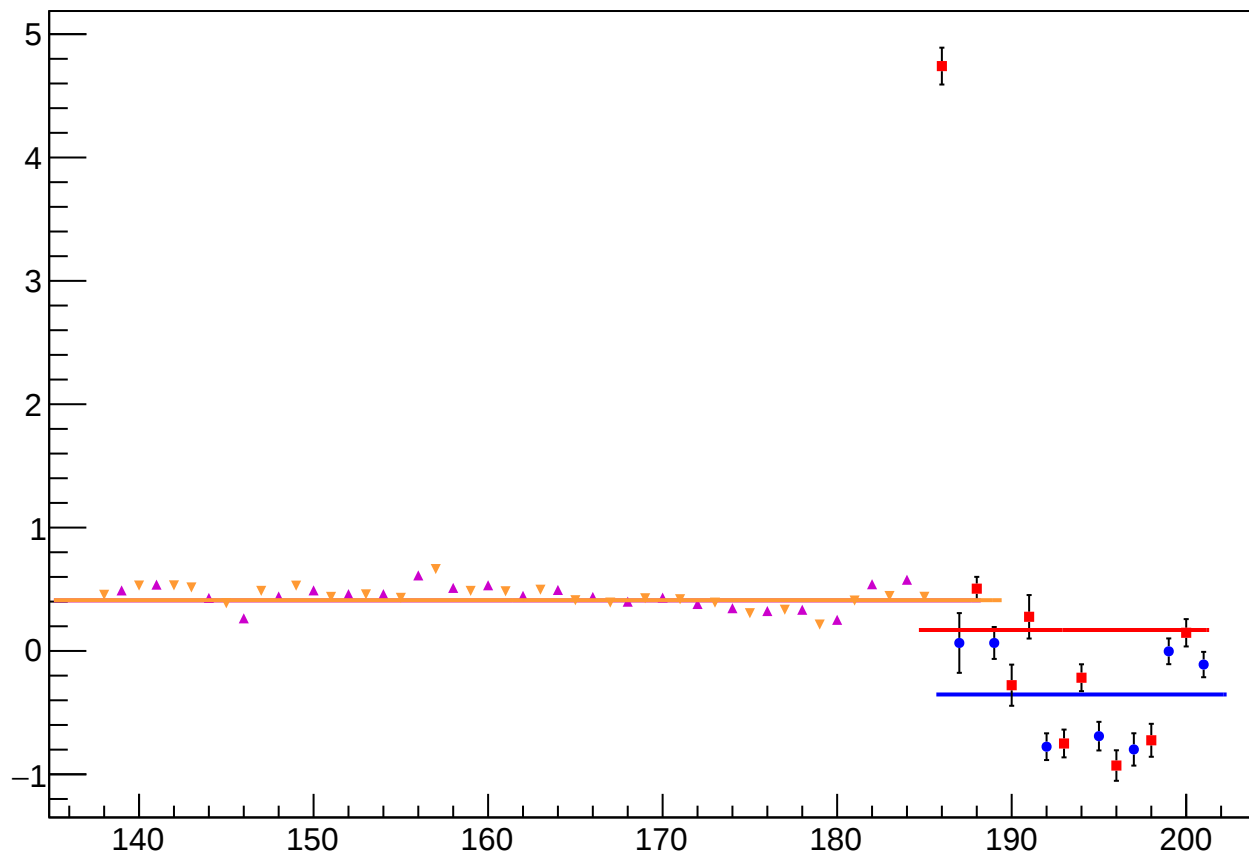
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -8.971 ± 1.361 χ^2/NDF : 41.6/6
 Left Out: -15.266 ± 0.086 χ^2/NDF : 2595.5/24
 Right Out: -4.776 ± 1.073 χ^2/NDF : 13.4/8
 Left In: -14.936 ± 0.087 χ^2/NDF : 2199.7/22

Left: -15.103 ± 0.061 χ^2/NDF : 4802.4/47
 Right: -6.382 ± 0.842 χ^2/NDF : 60.9/15
 In: -14.912 ± 0.087 χ^2/NDF : 2260.4/29
 Out: -15.199 ± 0.086 χ^2/NDF : 2703.9/33
 All: -15.057 ± 0.061 χ^2/NDF : 4969.9/63

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.353 ± 0.046 χ^2/NDF : 65.5/6

Left Out: 0.411 ± 0.004 χ^2/NDF : 428.7/24

Right Out: 0.170 ± 0.041 χ^2/NDF : 1159.4/8

Left In: 0.409 ± 0.004 χ^2/NDF : 557.8/22

Left: 0.410 ± 0.003 χ^2/NDF : 986.7/47

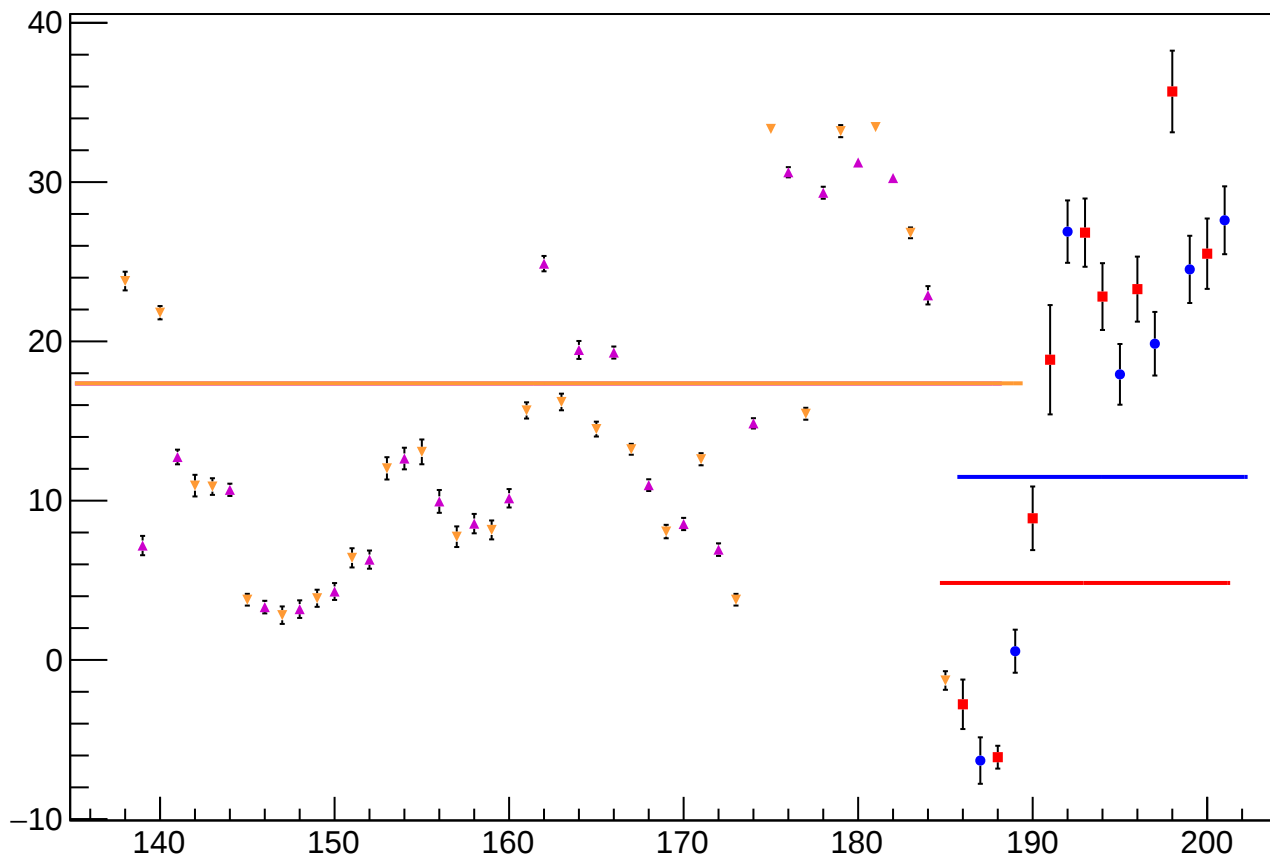
Right: -0.065 ± 0.031 χ^2/NDF : 1297.2/15

In: 0.404 ± 0.004 χ^2/NDF : 900.7/29

Out: 0.409 ± 0.004 χ^2/NDF : 1622.1/33

All: 0.407 ± 0.003 χ^2/NDF : 2523.8/63

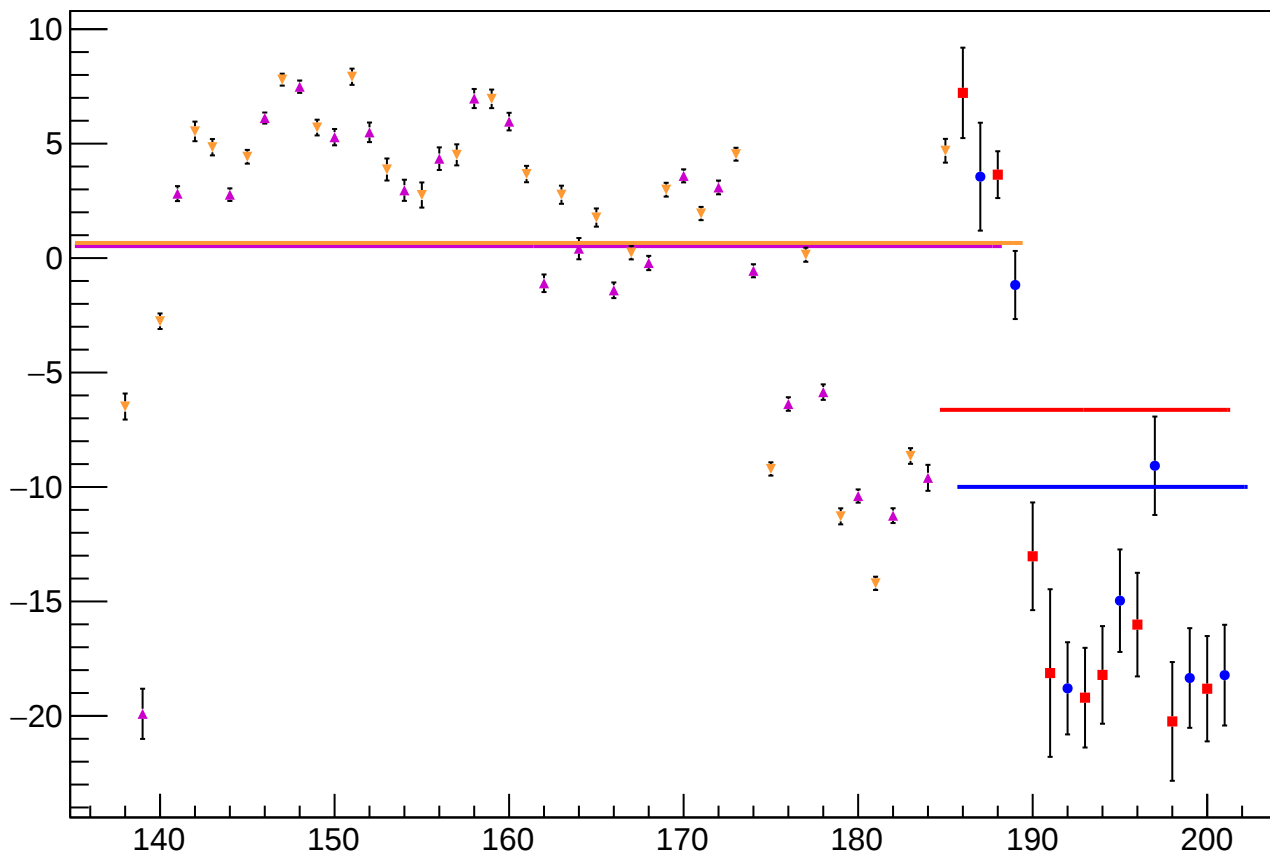
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.491 $\pm$ 0.667 χ^2 /NDF: 400.6/6
 Left Out: 17.367 $\pm$ 0.087 χ^2 /NDF:16337.6/24
 Right Out: 4.833 $\pm$ 0.517 χ^2 /NDF: 770.8/8
 Left In: 17.355 $\pm$ 0.089 χ^2 /NDF:12745.1/22

Left: 17.361 $\pm$ 0.062 χ^2 /NDF: 29082.8/47
 Right: 7.334 $\pm$ 0.409 χ^2 /NDF: 1233.6/15
 In: 17.253 $\pm$ 0.088 χ^2 /NDF:13221.8/29
 Out: 17.022 $\pm$ 0.086 χ^2 /NDF:17679.6/33
 All: 17.134 $\pm$ 0.062 χ^2 /NDF: 30904.8/63

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.996 ± 0.764 $\chi^2/\text{NDF}: 121.1/6$

Left Out: 0.661 ± 0.069 $\chi^2/\text{NDF}: 8553.9/24$

Right Out: -6.630 ± 0.641 $\chi^2/\text{NDF}: 302.9/8$

Left In: 0.524 ± 0.071 $\chi^2/\text{NDF}: 6729.7/22$

Left: 0.594 ± 0.050 $\chi^2/\text{NDF}: 15285.5/47$

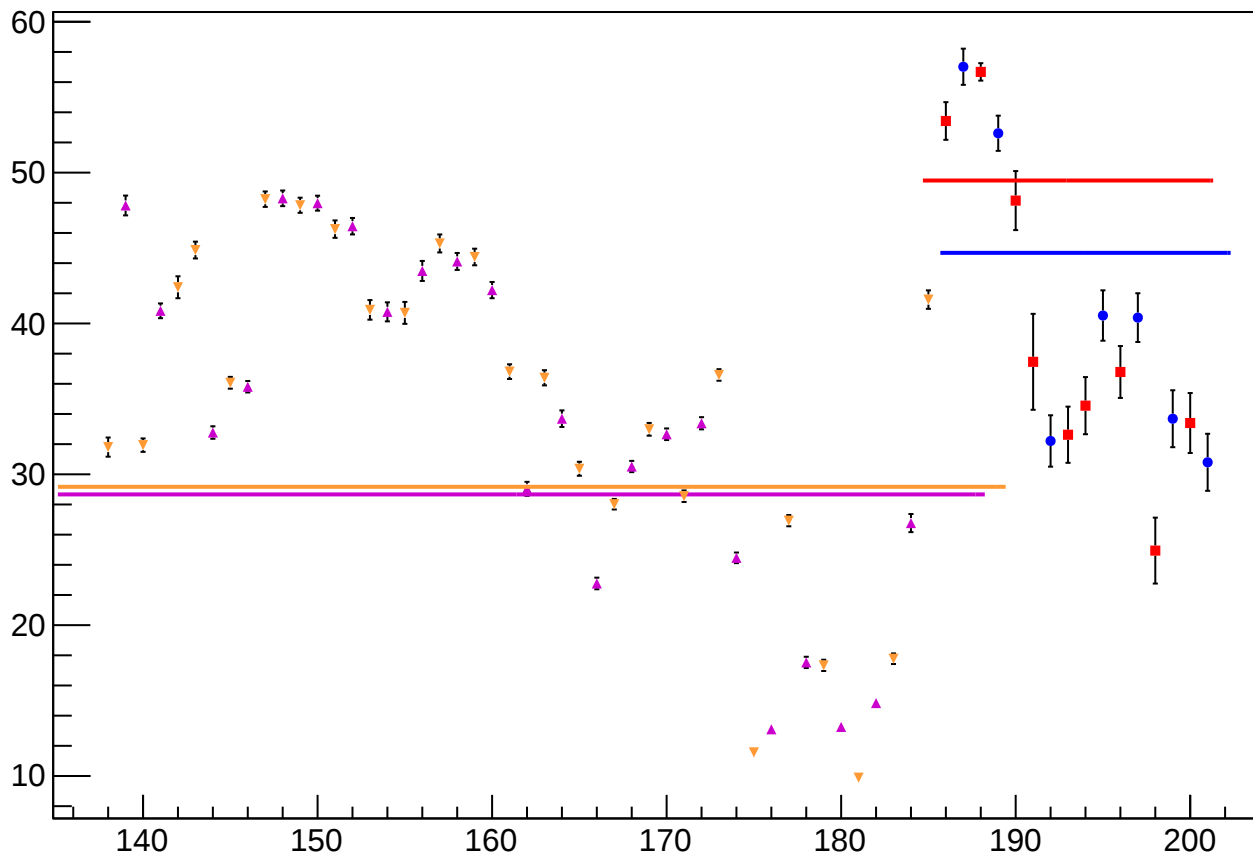
Right: -8.021 ± 0.491 $\chi^2/\text{NDF}: 435.4/15$

In: 0.434 ± 0.071 $\chi^2/\text{NDF}: 7038.6/29$

Out: 0.576 ± 0.069 $\chi^2/\text{NDF}: 8984.5/33$

All: 0.507 ± 0.049 $\chi^2/\text{NDF}: 16025.2/63$

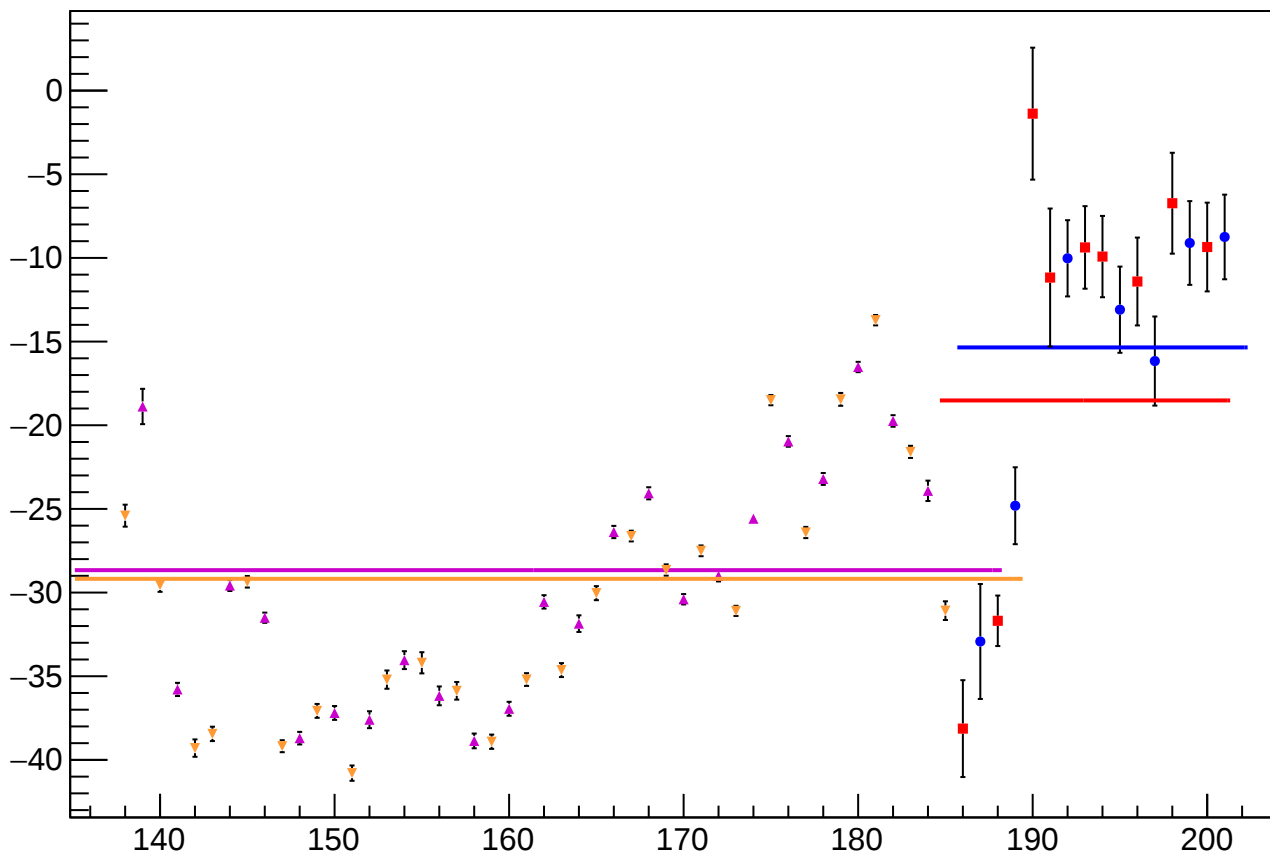
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 44.682 $\pm$ 0.570 χ^2 /NDF: 306.8/6
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 49.477 $\pm$ 0.432 χ^2 /NDF: 569.5/8
 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: 47.727 $\pm$ 0.344 χ^2 /NDF: 921.3/15
 In: 29.049 $\pm$ 0.088 χ^2 /NDF:17924.5/29
 Out: 29.976 $\pm$ 0.086 χ^2 /NDF:21665.3/33
 All: 29.523 $\pm$ 0.062 χ^2 /NDF: 39646.5/63

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



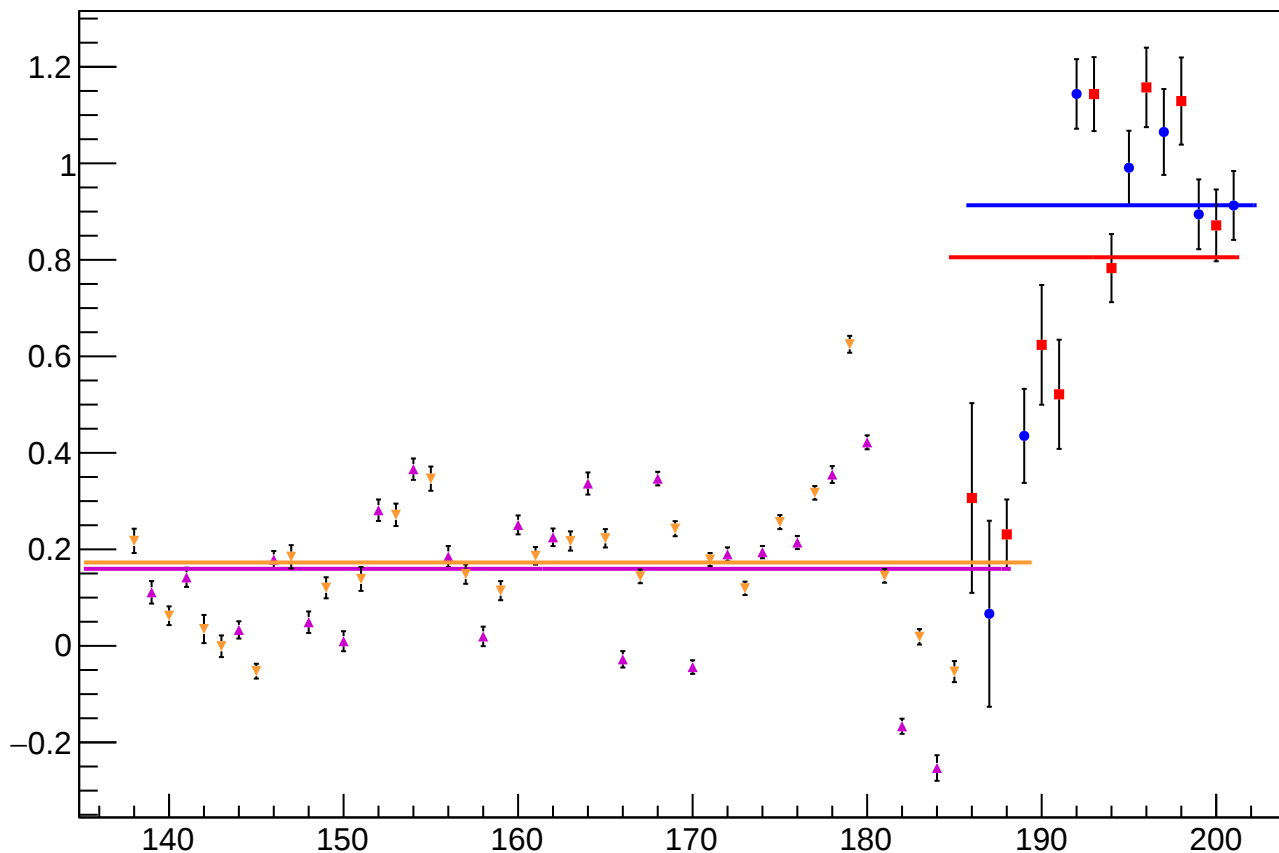
Right In: -15.349 ± 0.965 χ^2/NDF : 62.5/6
 Left Out: -29.178 ± 0.078 χ^2/NDF : 9081.4/24
 Right Out: -18.518 ± 0.841 χ^2/NDF : 204.9/8
 Left In: -28.660 ± 0.080 χ^2/NDF : 6670.1/22

Left: -28.924 ± 0.056 χ^2/NDF : 15773.0/47
 Right: -17.149 ± 0.634 χ^2/NDF : 273.5/15

In: -28.570 ± 0.080 χ^2/NDF : 6921.7/29
 Out: -29.087 ± 0.078 χ^2/NDF : 9445.4/33

All: -28.834 ± 0.056 χ^2/NDF : 16388.7/63

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.913 $\pm$ 0.031 χ^2 /NDF: 57.6/6

Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.5/24

Right Out: 0.805 $\pm$ 0.029 χ^2 /NDF: 129.4/8

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

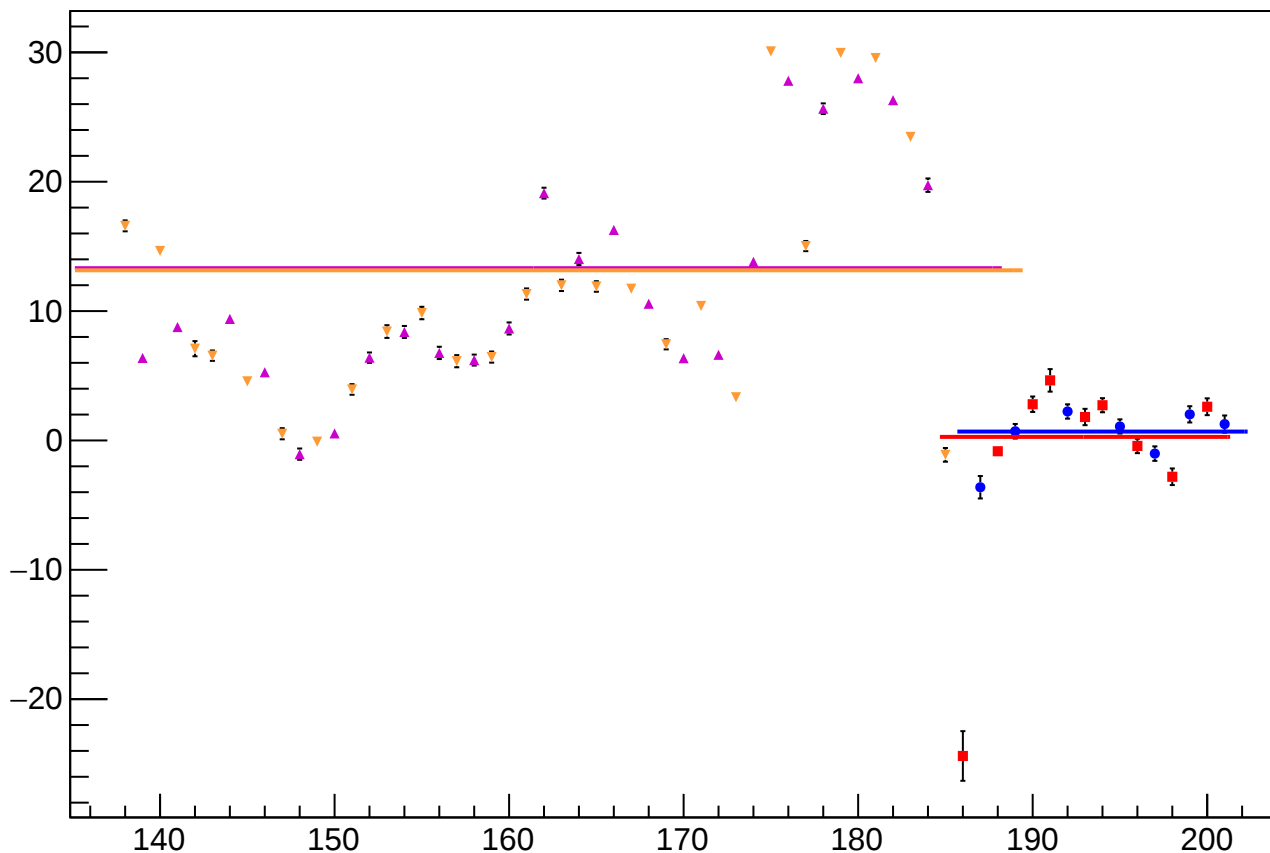
Right: 0.855 $\pm$ 0.021 χ^2 /NDF: 193.3/15

In: 0.170 $\pm$ 0.004 χ^2 /NDF:2680.3/29

Out: 0.182 $\pm$ 0.004 χ^2 /NDF:2073.6/33

All: 0.176 $\pm$ 0.003 χ^2 /NDF: 4760.0/63

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.686 $\pm$ 0.229 χ^2 /NDF: 47.5/6

Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24

Right Out: 0.275 $\pm$ 0.180 χ^2 /NDF: 287.2/8

Left In: 13.315 $\pm$ 0.077 χ^2 /NDF:13977.7/22

Left: 13.232 $\pm$ 0.054 χ^2 /NDF: 31059.6/47

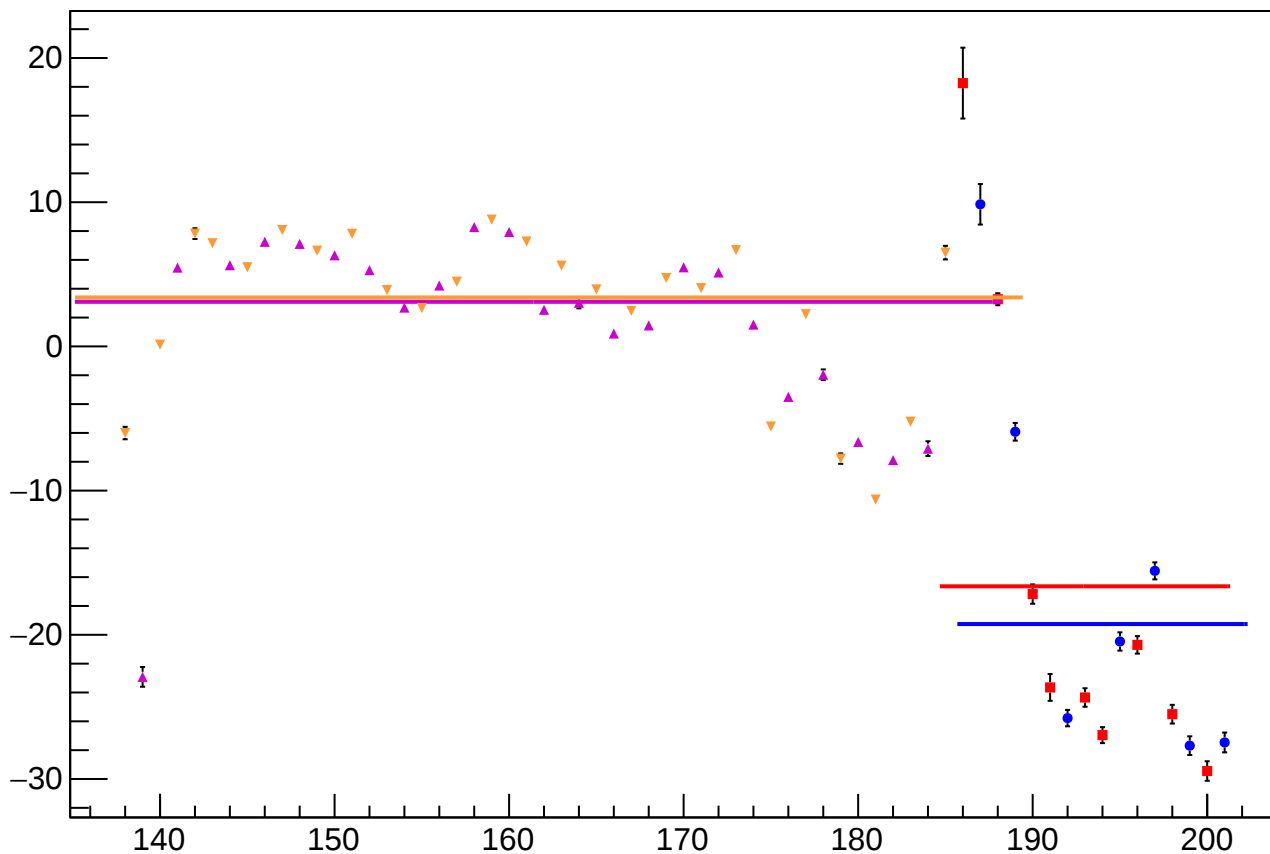
Right: 0.432 $\pm$ 0.142 χ^2 /NDF: 336.6/15

In: 12.032 $\pm$ 0.073 χ^2 /NDF:16751.2/29

Out: 11.238 $\pm$ 0.069 χ^2 /NDF:21725.7/33

All: 11.614 $\pm$ 0.050 χ^2 /NDF: 38539.0/63

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -19.254 ± 0.249 $\chi^2/\text{NDF}: 1387.3/6$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -16.637 ± 0.212 $\chi^2/\text{NDF}: 3647.9/8$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

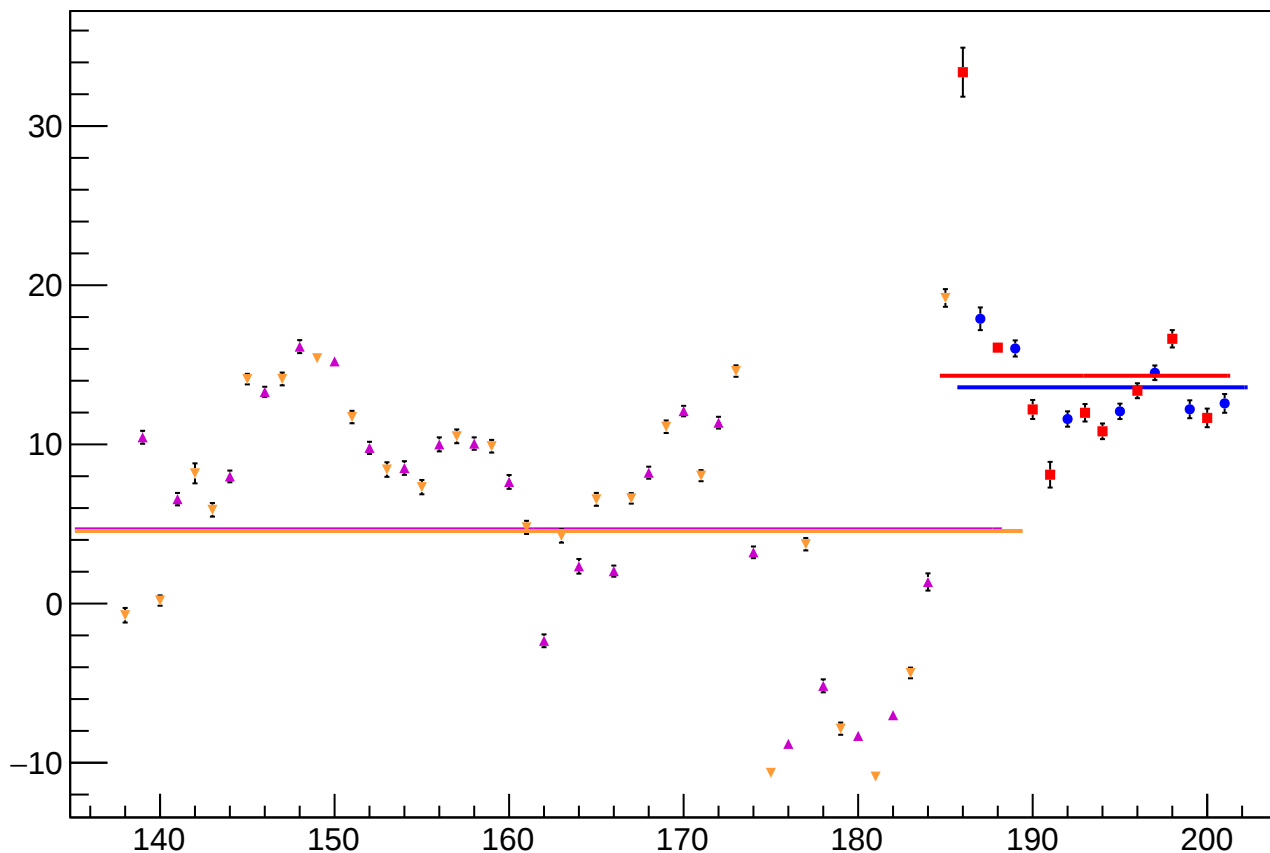
Right: -17.733 ± 0.161 $\chi^2/\text{NDF}: 5099.3/15$

In: 1.846 ± 0.059 $\chi^2/\text{NDF}: 16082.2/29$

Out: 1.979 ± 0.056 $\chi^2/\text{NDF}: 20077.4/33$

All: 1.916 ± 0.041 $\chi^2/\text{NDF}: 36162.3/63$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.586+/-0.199 χ^2/NDF : 99.3/6

Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24

Right Out: 14.314+/-0.154 χ^2/NDF : 395.9/8

Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

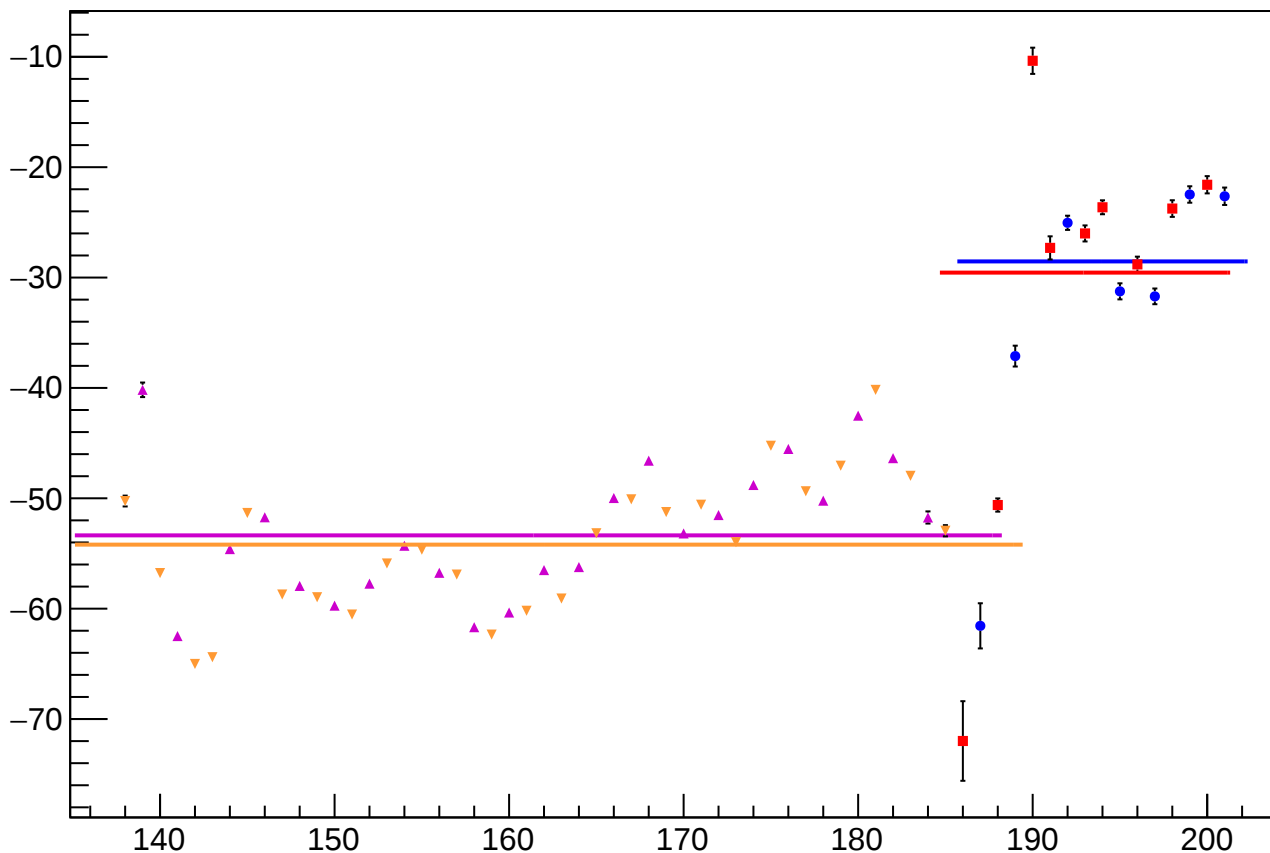
Right: 14.041+/-0.122 χ^2/NDF : 503.5/15

In: 5.816+/-0.072 χ^2/NDF :13127.1/29

Out: 6.445+/-0.068 χ^2/NDF :17222.1/33

All: 6.149+/-0.049 χ^2/NDF : 30389.9/63

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -28.537 ± 0.301 $\chi^2/\text{NDF}: 528.3/6$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -29.552 ± 0.264 $\chi^2/\text{NDF}: 1915.8/8$
 Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

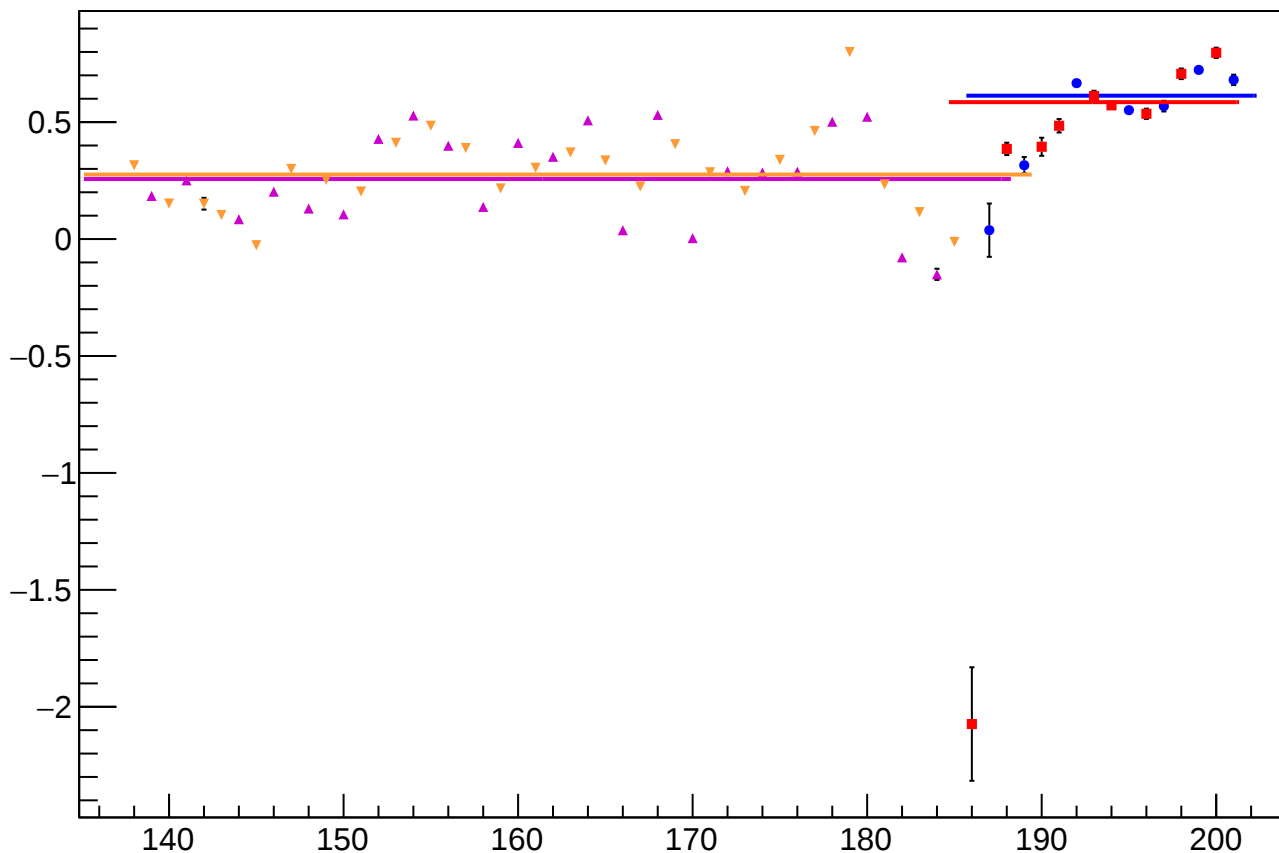
Right: -29.110 ± 0.199 $\chi^2/\text{NDF}: 2450.5/15$

In: -52.136 ± 0.067 $\chi^2/\text{NDF}: 13881.4/29$

Out: -52.736 ± 0.064 $\chi^2/\text{NDF}: 18549.7/33$

All: -52.447 ± 0.046 $\chi^2/\text{NDF}: 32472.9/63$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.613 ± 0.009 χ^2/NDF : 151.7/6

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.585 ± 0.008 χ^2/NDF : 342.8/8

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

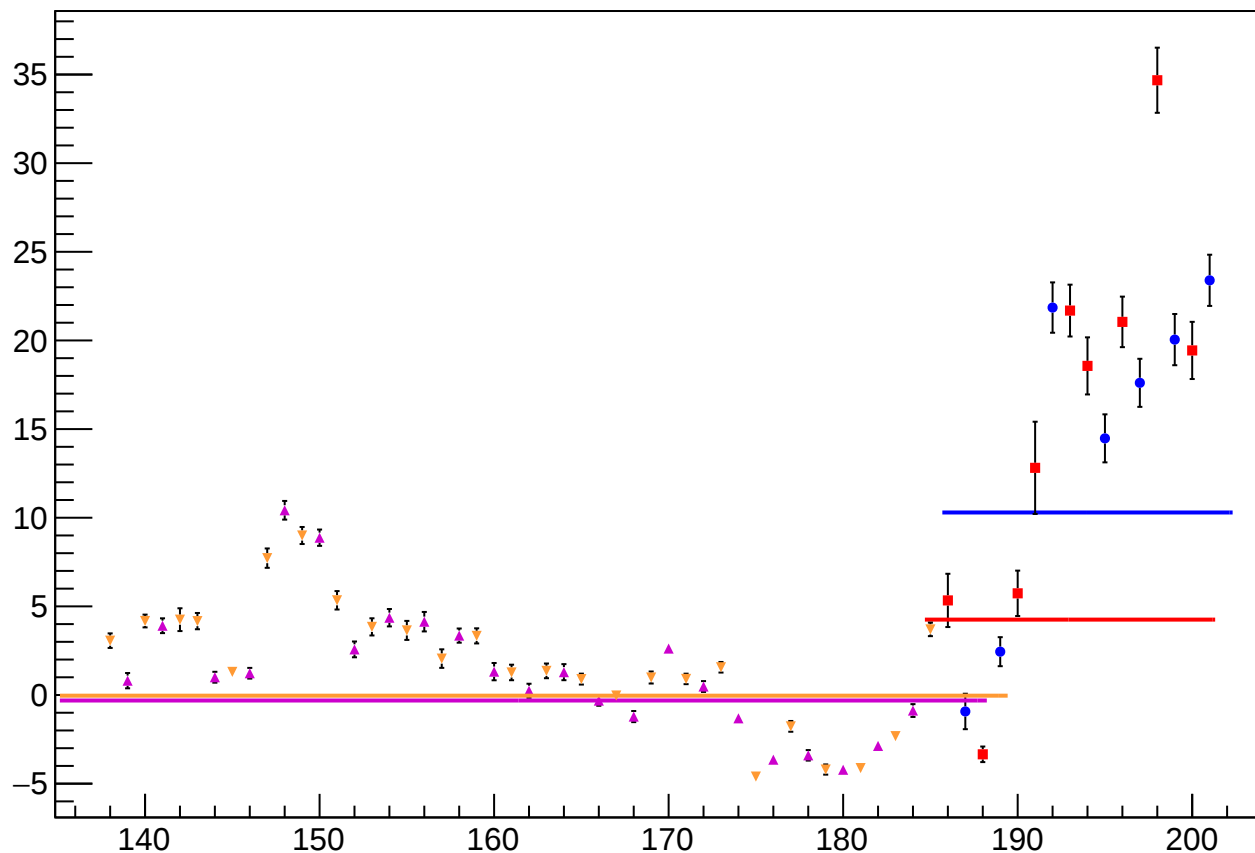
Right: 0.598 ± 0.006 χ^2/NDF : 499.3/15

In: 0.292 ± 0.003 χ^2/NDF : 5096.4/29

Out: 0.312 ± 0.003 χ^2/NDF : 4181.7/33

All: 0.303 ± 0.002 χ^2/NDF : 9301.8/63

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 10.296 $\pm$ 0.446 χ^2 /NDF: 450.7/6

Left Out: -0.037 $\pm$ 0.066 χ^2 /NDF: 2637.7/24

Right Out: 4.253 $\pm$ 0.345 χ^2 /NDF: 1035.2/8

Left In: -0.310 $\pm$ 0.067 χ^2 /NDF: 2250.5/22

Left: -0.171 $\pm$ 0.047 χ^2 /NDF: 4896.5/47

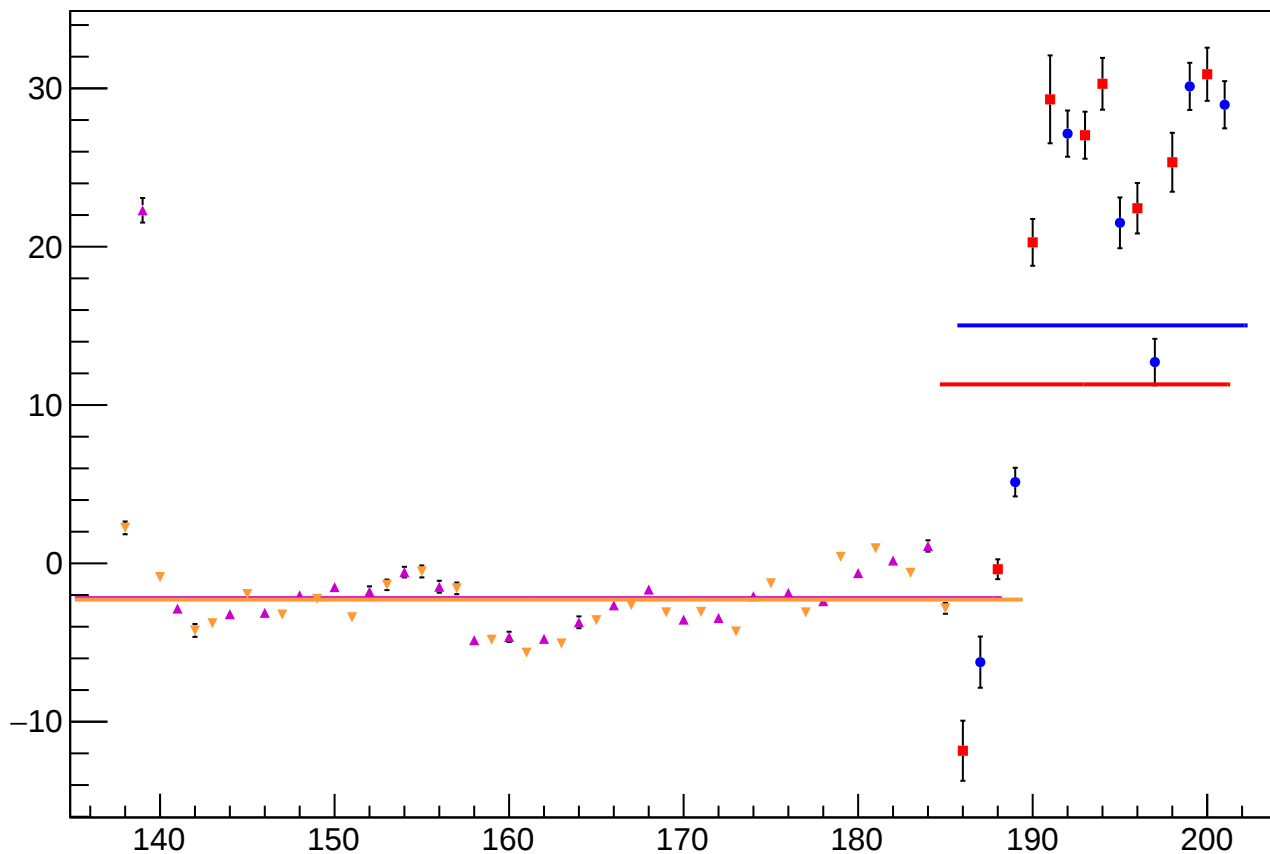
Right: 6.515 $\pm$ 0.273 χ^2 /NDF: 1601.0/15

In: -0.073 $\pm$ 0.067 χ^2 /NDF: 3255.1/29

Out: 0.115 $\pm$ 0.065 χ^2 /NDF: 3822.3/33

All: 0.023 $\pm$ 0.046 χ^2 /NDF: 7081.5/63

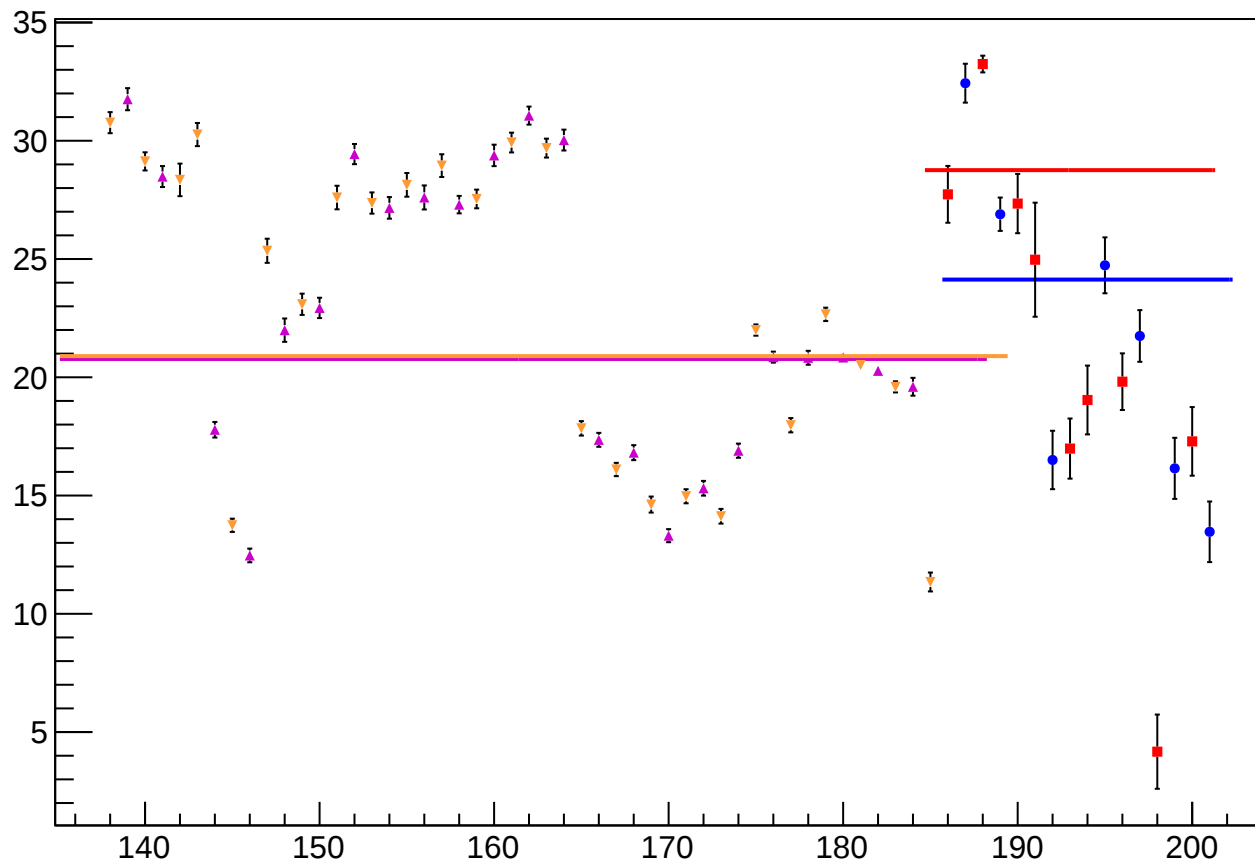
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.029 ± 0.511 $\chi^2/\text{NDF}: 570.1/6$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: 11.304 ± 0.436 $\chi^2/\text{NDF}: 1061.8/8$
 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: 12.872 ± 0.332 $\chi^2/\text{NDF}: 1662.6/15$
 In: -2.000 ± 0.055 $\chi^2/\text{NDF}: 3366.5/29$
 Out: -2.081 ± 0.054 $\chi^2/\text{NDF}: 3157.7/33$
 All: -2.042 ± 0.038 $\chi^2/\text{NDF}: 6525.3/63$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 24.131 $\pm$ 0.380 χ^2 /NDF: 268.0/6

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF: 6655.4/24

Right Out: 28.758 $\pm$ 0.287 χ^2 /NDF: 659.2/8

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

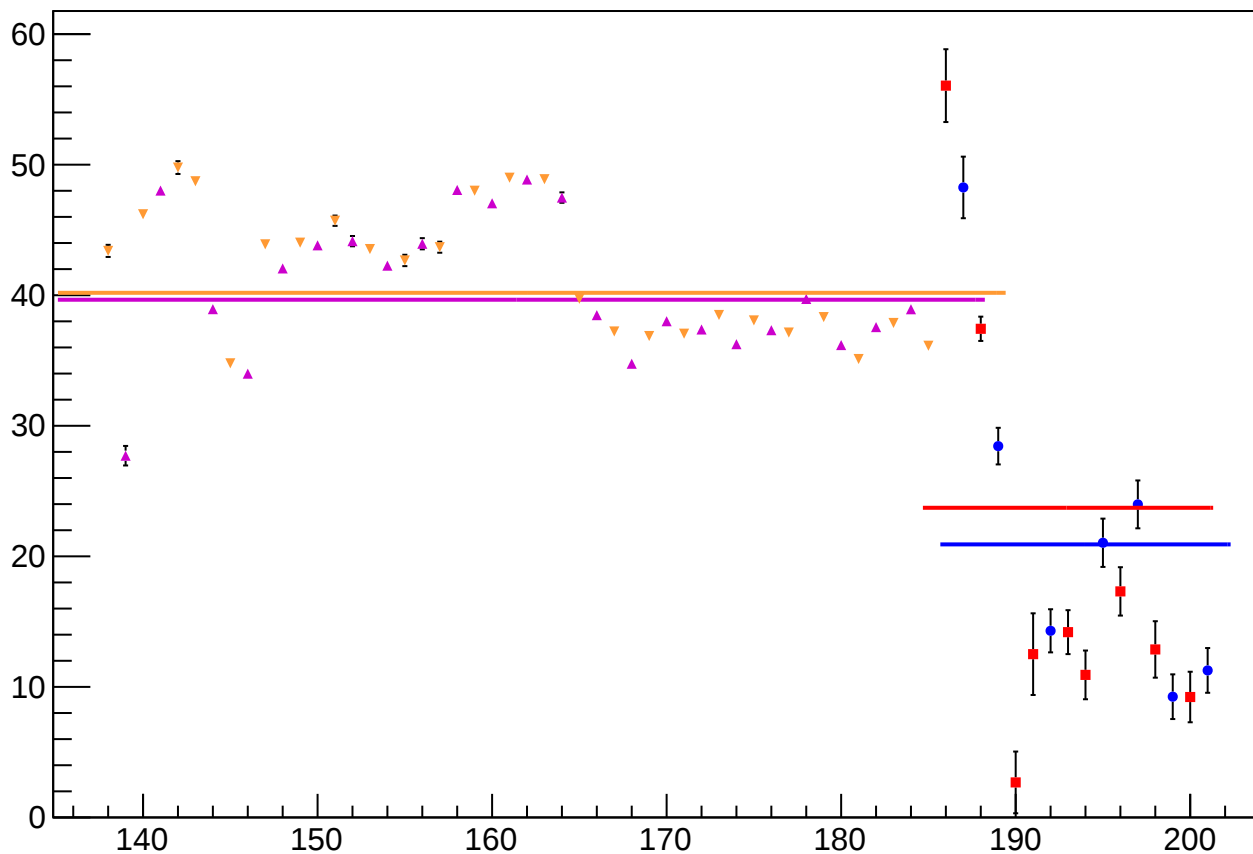
Right: 27.080 $\pm$ 0.229 χ^2 /NDF: 1021.5/15

In: 20.877 $\pm$ 0.066 χ^2 /NDF: 6271.3/29

Out: 21.297 $\pm$ 0.065 χ^2 /NDF: 8027.5/33

All: 21.092 $\pm$ 0.046 χ^2 /NDF: 14319.3/63

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.915 $\pm$ 0.656 χ^2 /NDF: 260.3/6

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24

Right Out: 23.720 $\pm$ 0.579 χ^2 /NDF: 616.0/8

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

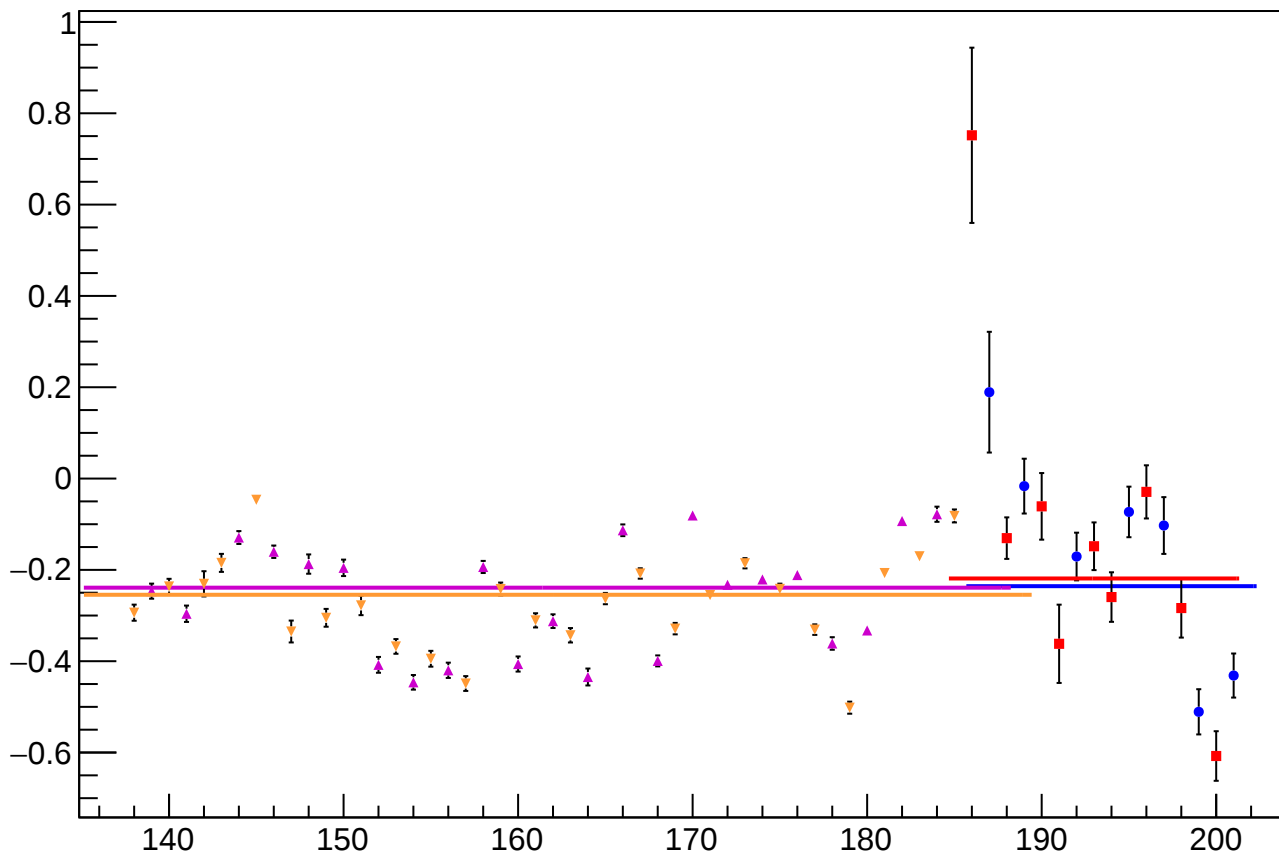
Right: 22.490 $\pm$ 0.434 χ^2 /NDF: 886.6/15

In: 39.492 $\pm$ 0.061 χ^2 /NDF: 6368.7/29

Out: 40.009 $\pm$ 0.060 χ^2 /NDF: 7347.6/33

All: 39.755 $\pm$ 0.043 χ^2 /NDF: 13752.8/63

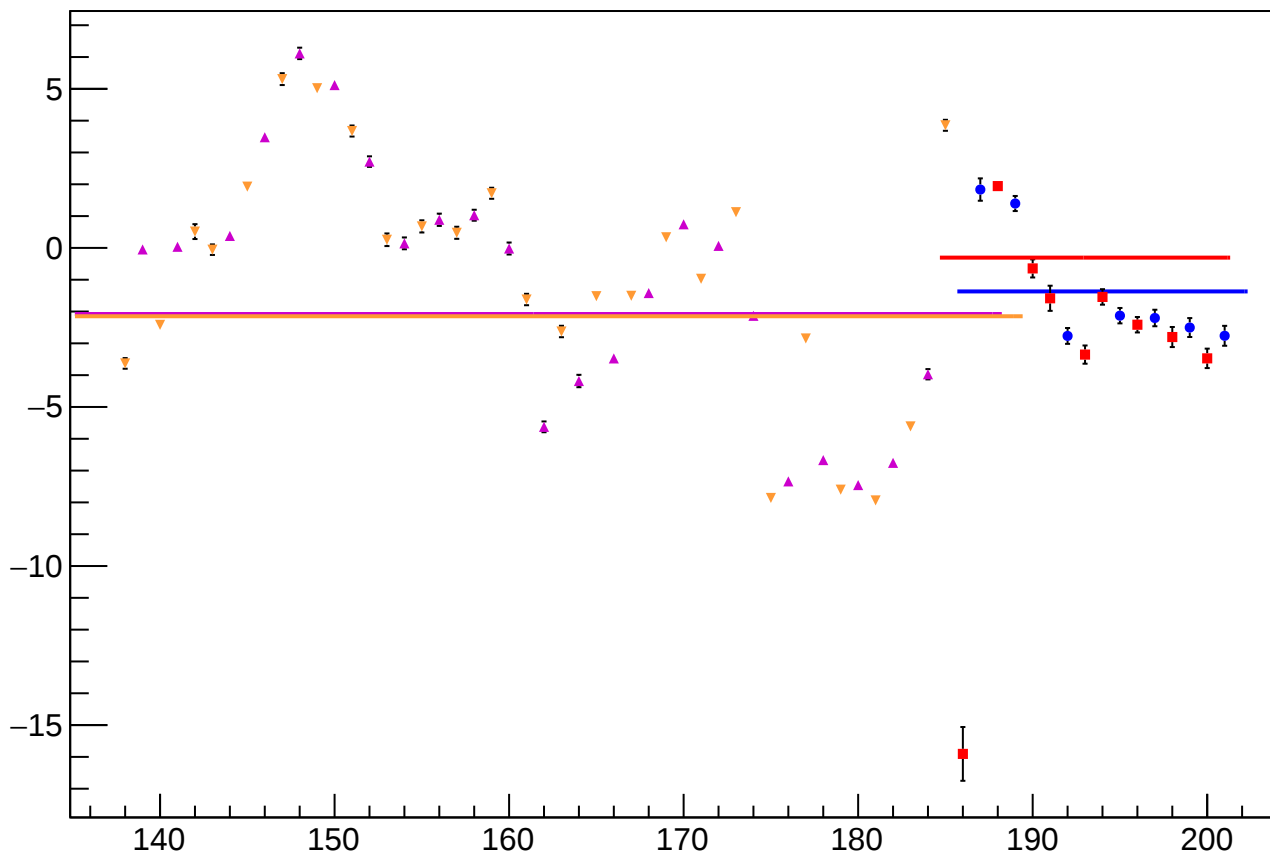
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.236 ± 0.022 χ^2/NDF : 85.7/6
 Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24
 Right Out: -0.219 ± 0.020 χ^2/NDF : 102.1/8
 Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47
 Right: -0.227 ± 0.015 χ^2/NDF : 188.1/15
 In: -0.239 ± 0.003 χ^2/NDF : 1836.2/29
 Out: -0.254 ± 0.003 χ^2/NDF : 1525.6/33
 All: -0.247 ± 0.002 χ^2/NDF : 3376.7/63

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

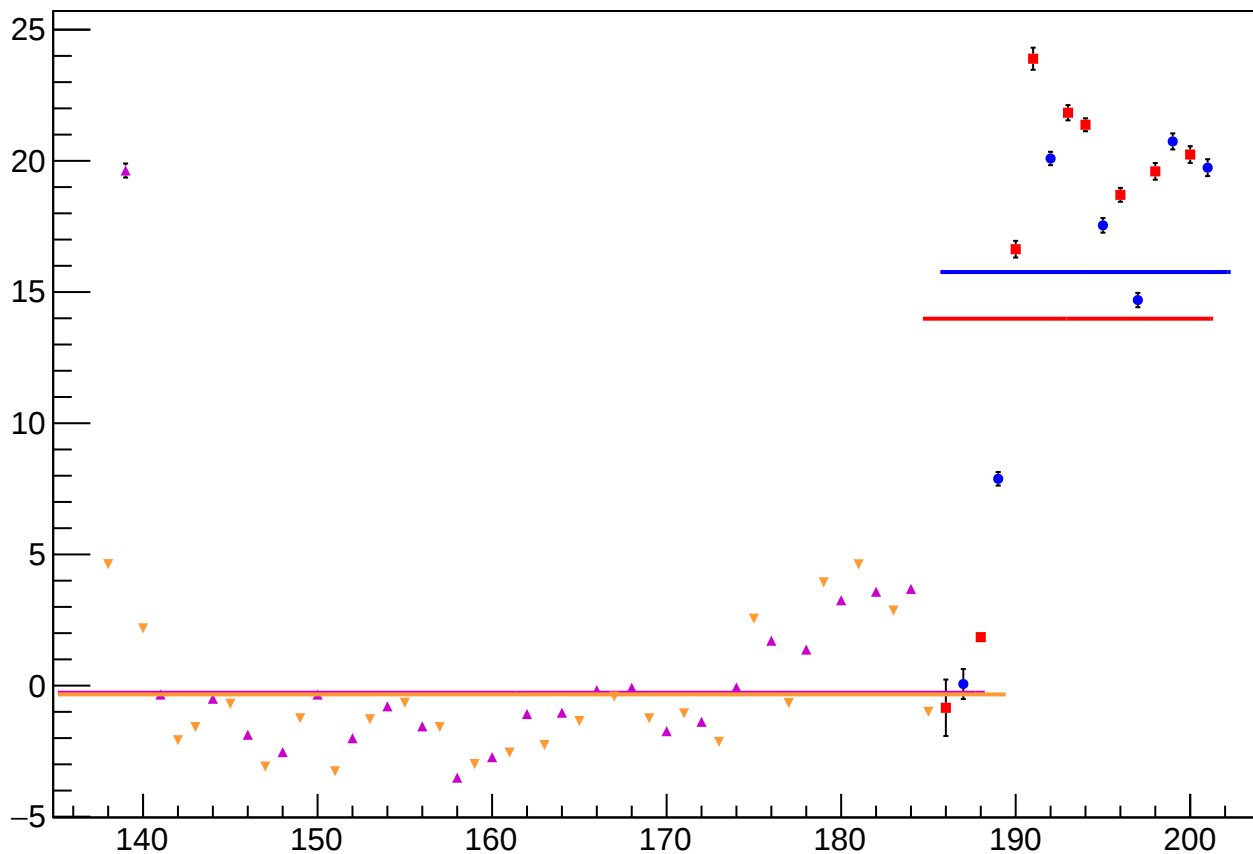


Right In: -1.368 ± 0.102 χ^2/NDF : 305.1/6
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.305 ± 0.077 χ^2/NDF : 1157.2/8
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.687 ± 0.061 χ^2/NDF : 1531.3/15
 In: -2.035 ± 0.025 χ^2/NDF : 23596.1/29
 Out: -1.963 ± 0.024 χ^2/NDF : 26213.3/33

All: -1.998 ± 0.018 χ^2/NDF : 49813.5/63

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.763+/-0.112 χ^2 /NDF: 2438.4/6

Left Out: -0.335+/-0.021 χ^2 /NDF:12596.1/24

Right Out: 13.985+/-0.093 χ^2 /NDF: 9095.5/8

Left In: -0.269+/-0.021 χ^2 /NDF:13323.1/22

Left: -0.303+/-0.015 χ^2 /NDF: 25924.2/47

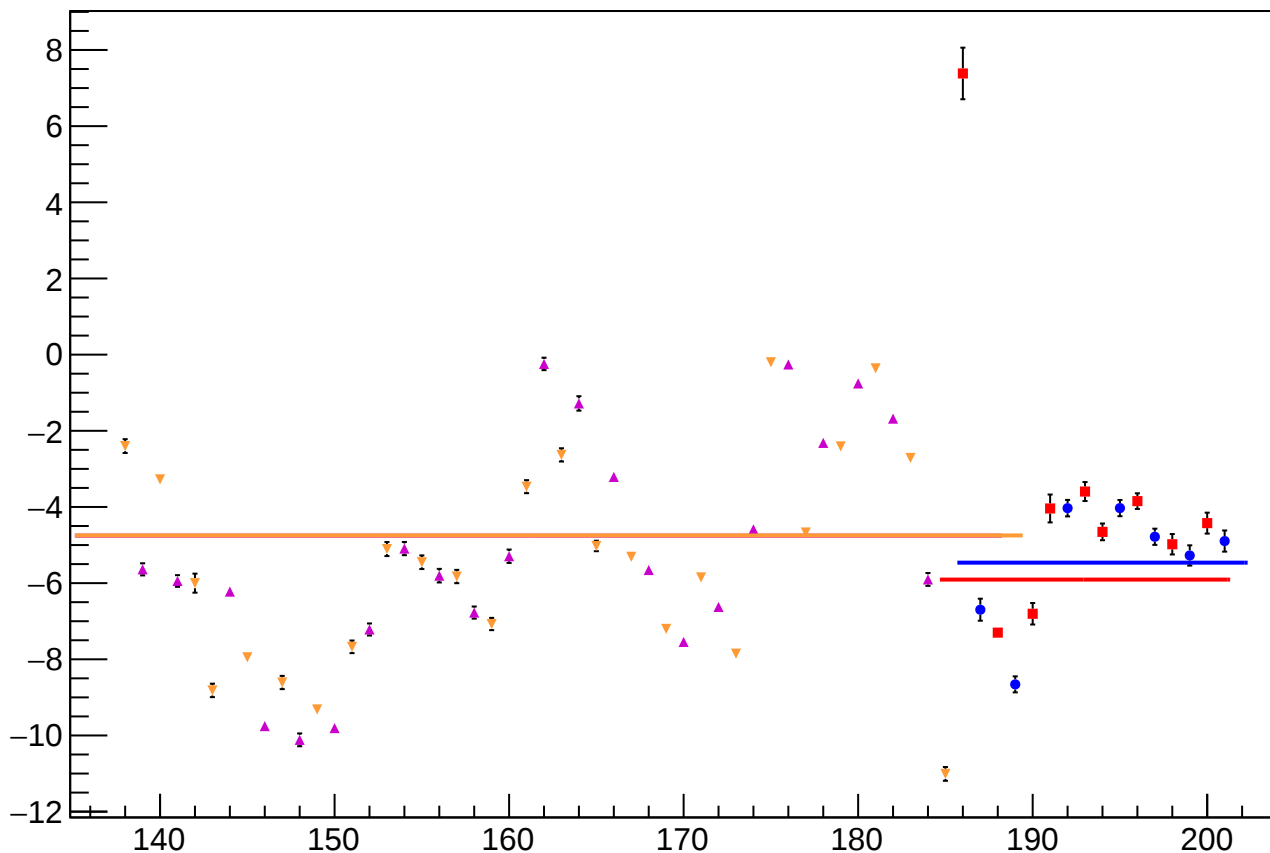
Right: 14.705+/-0.071 χ^2 /NDF: 11683.3/15

In: 0.270+/-0.021 χ^2 /NDF:35492.7/29

Out: 0.339+/-0.020 χ^2 /NDF:44492.2/33

All: 0.306+/-0.014 χ^2 /NDF: 79990.7/63

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

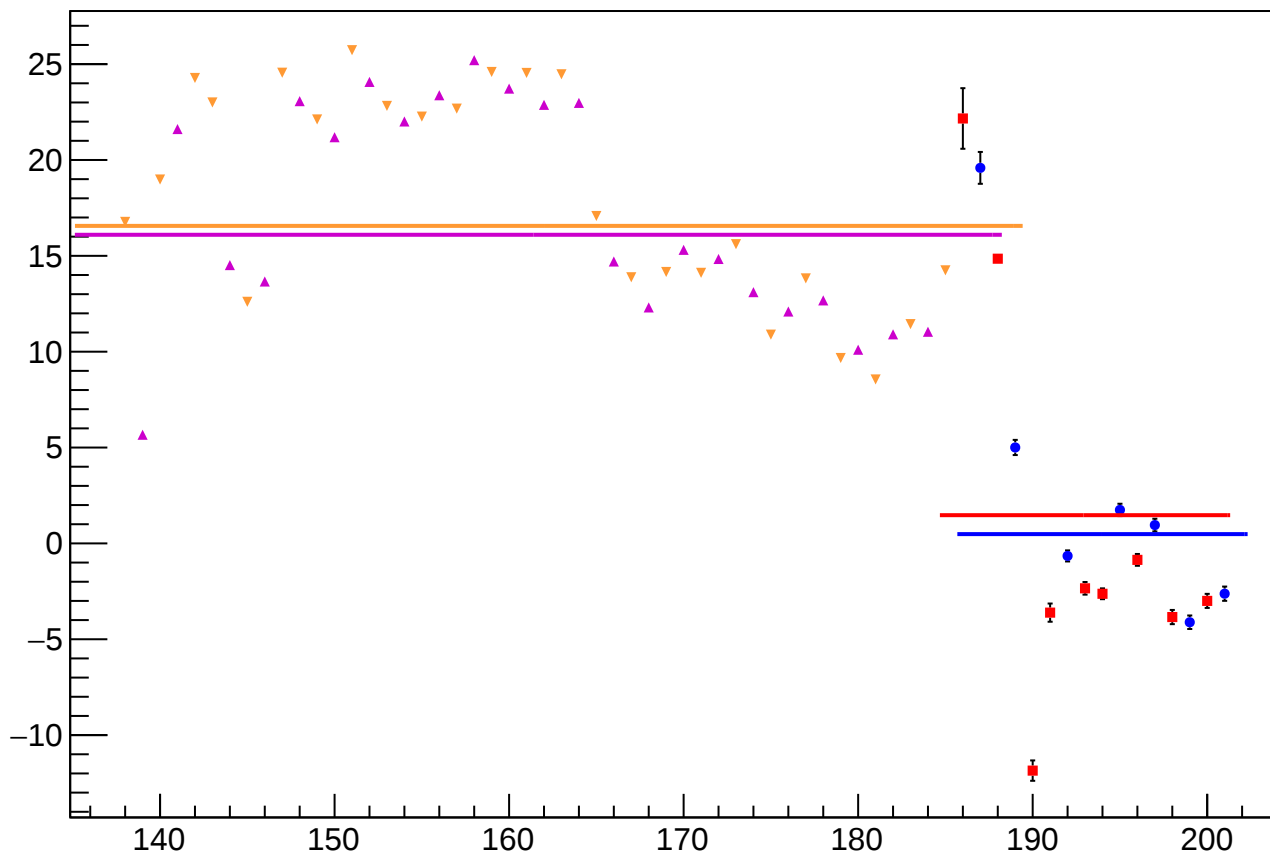


Right In: -5.462 ± 0.089 χ^2/NDF : 352.9/6
 Left Out: -4.748 ± 0.026 χ^2/NDF : 13289.8/24
 Right Out: -5.907 ± 0.065 χ^2/NDF : 927.1/8
 Left In: -4.753 ± 0.026 χ^2/NDF : 14119.2/22

Left: -4.751 ± 0.018 χ^2/NDF : 27409.0/47
 Right: -5.751 ± 0.052 χ^2/NDF : 1296.4/15
 In: -4.810 ± 0.025 χ^2/NDF : 14530.9/29
 Out: -4.906 ± 0.024 χ^2/NDF : 14491.1/33

All: -4.860 ± 0.017 χ^2/NDF : 29029.7/63

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.484 ± 0.136 $\chi^2/\text{NDF}: 931.5/6$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 1.472 ± 0.117 $\chi^2/\text{NDF}: 4941.6/8$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

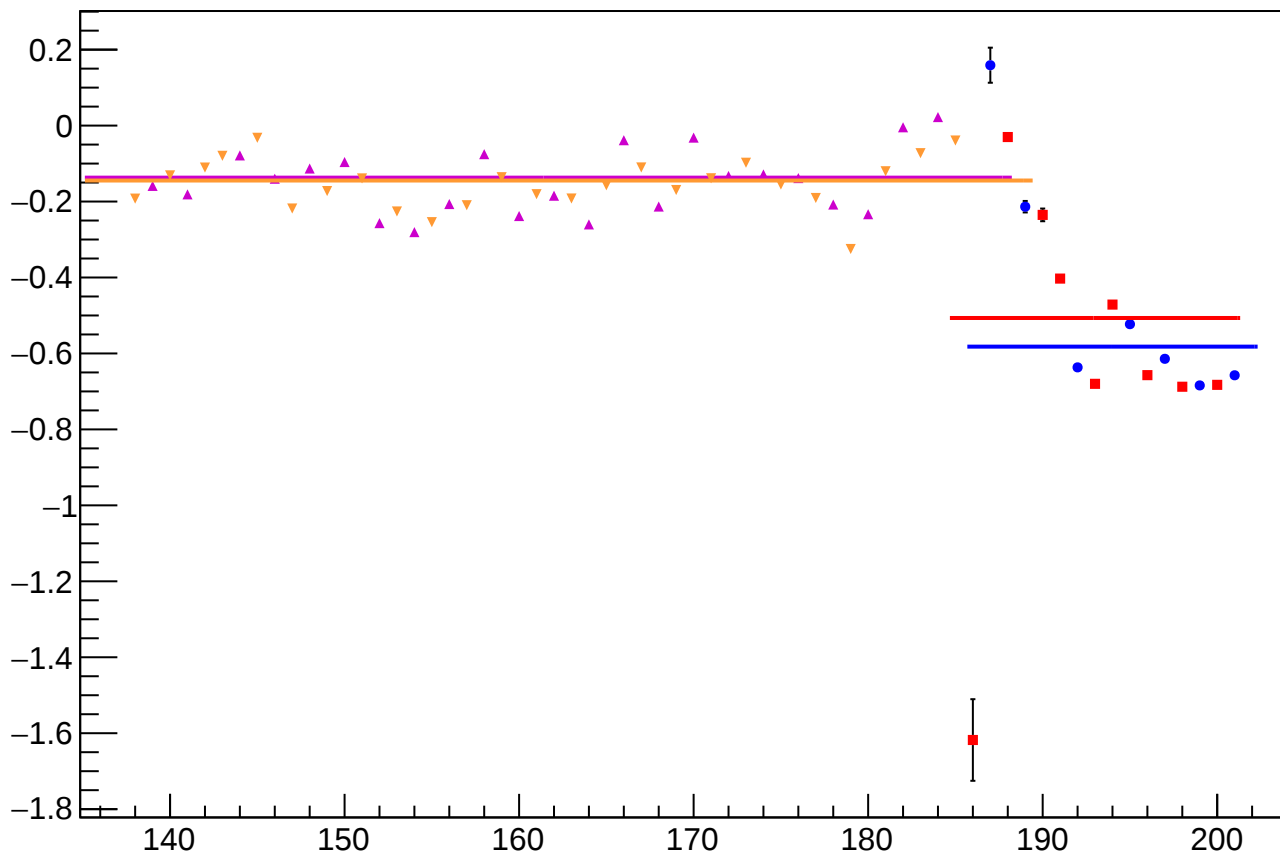
Right: 1.055 ± 0.089 $\chi^2/\text{NDF}: 5903.4/15$

In: 15.645 ± 0.023 $\chi^2/\text{NDF}: 56033.9/29$

Out: 15.990 ± 0.023 $\chi^2/\text{NDF}: 74933.2/33$

All: 15.821 ± 0.016 $\chi^2/\text{NDF}: 131080.1/63$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.582 ± 0.004 χ^2/NDF : 1086.6/6

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.507 ± 0.004 χ^2/NDF : 3633.4/8

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

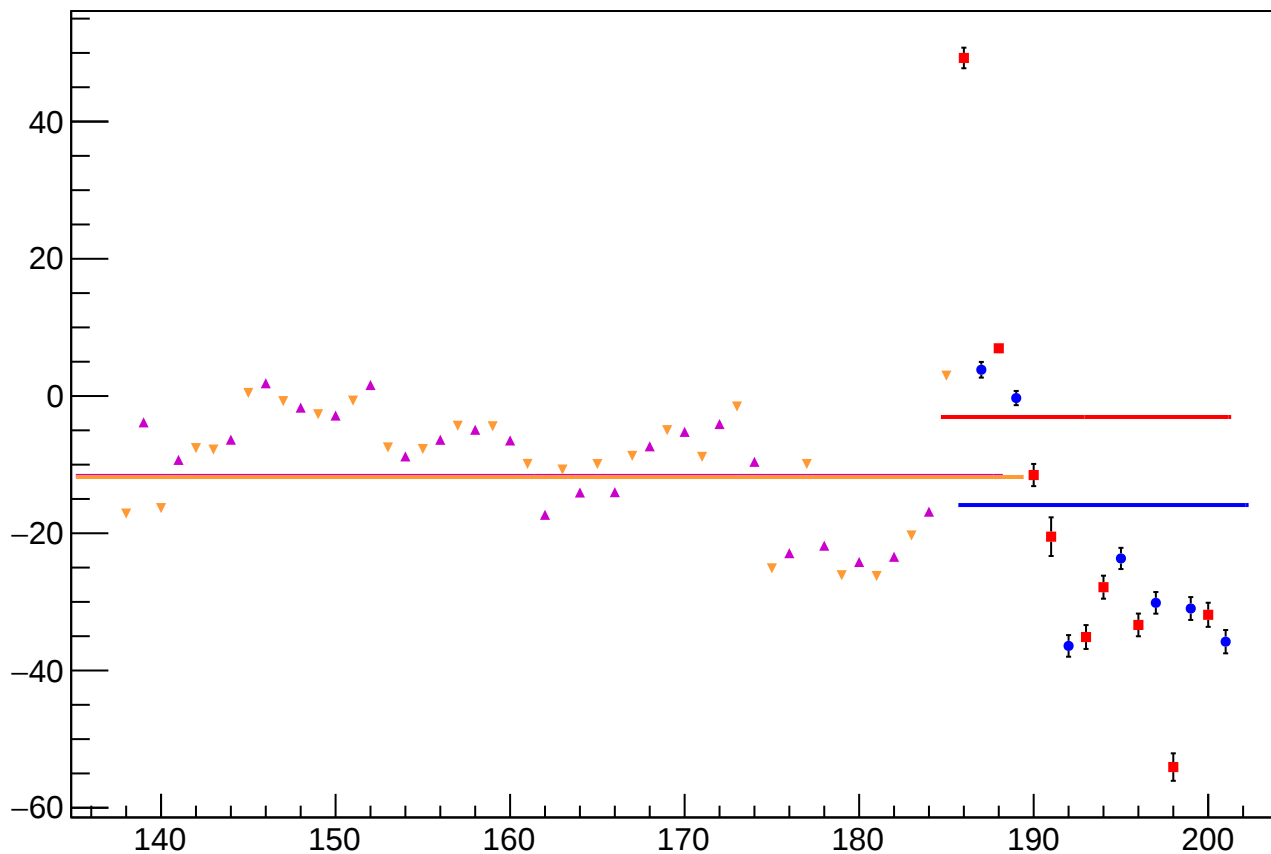
Right: -0.540 ± 0.003 χ^2/NDF : 4897.6/15

In: -0.164 ± 0.001 χ^2/NDF : 16800.6/29

Out: -0.171 ± 0.001 χ^2/NDF : 16080.1/33

All: -0.168 ± 0.001 χ^2/NDF : 32907.9/63

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.885 ± 0.525 $\chi^2/\text{NDF}: 1020.0/6$

Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$

Right Out: -3.055 ± 0.407 $\chi^2/\text{NDF}: 3443.4/8$

Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$

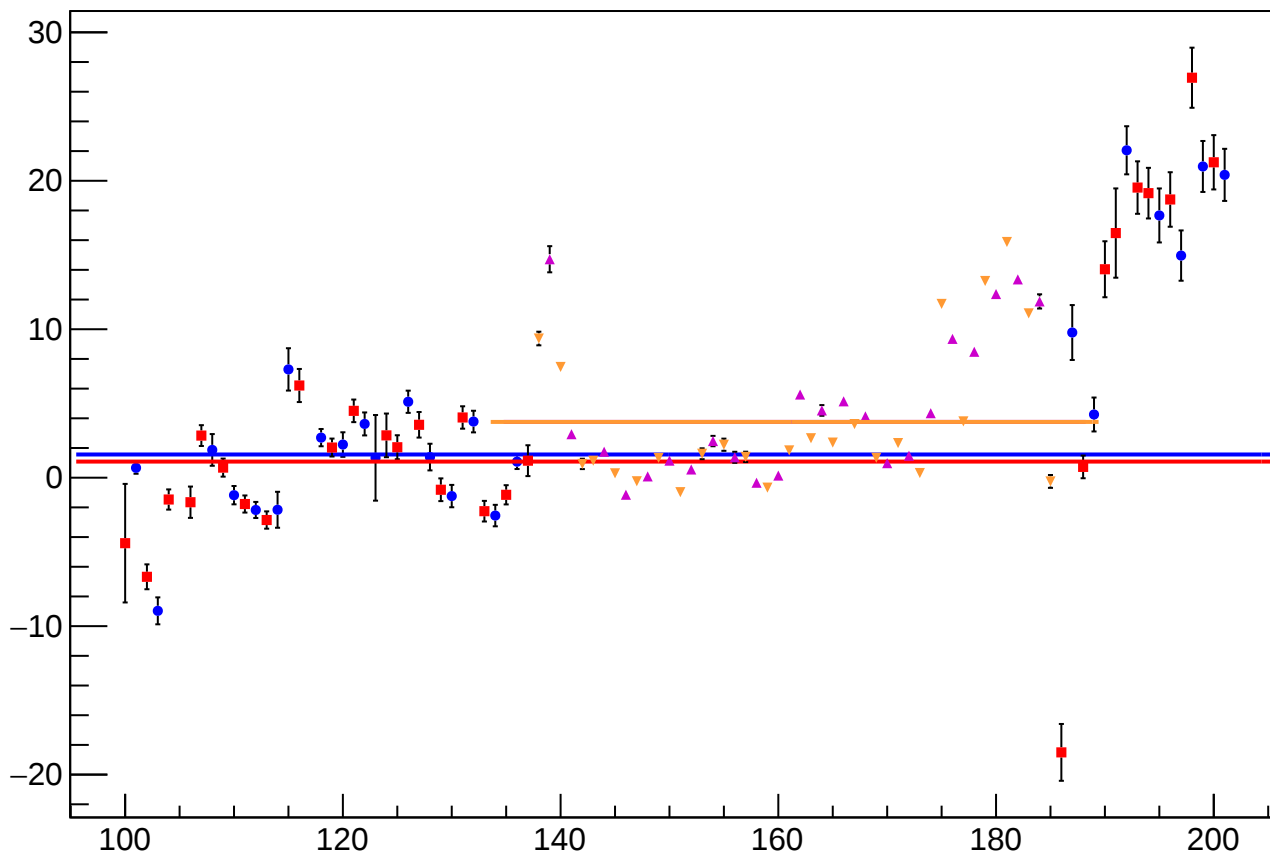
Right: -7.865 ± 0.321 $\chi^2/\text{NDF}: 4836.6/15$

In: -11.719 ± 0.071 $\chi^2/\text{NDF}: 15205.3/29$

Out: -11.548 ± 0.069 $\chi^2/\text{NDF}: 21200.8/33$

All: -11.631 ± 0.050 $\chi^2/\text{NDF}: 36409.1/63$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.563 ± 0.164 $\chi^2/\text{NDF}: 892.3/23$

Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$

Right Out: 1.086 ± 0.165 $\chi^2/\text{NDF}: 1074.0/27$

Left In: 3.757 ± 0.057 $\chi^2/\text{NDF}: 5629.4/22$

Left: 3.757 ± 0.040 $\chi^2/\text{NDF}: 13080.0/47$

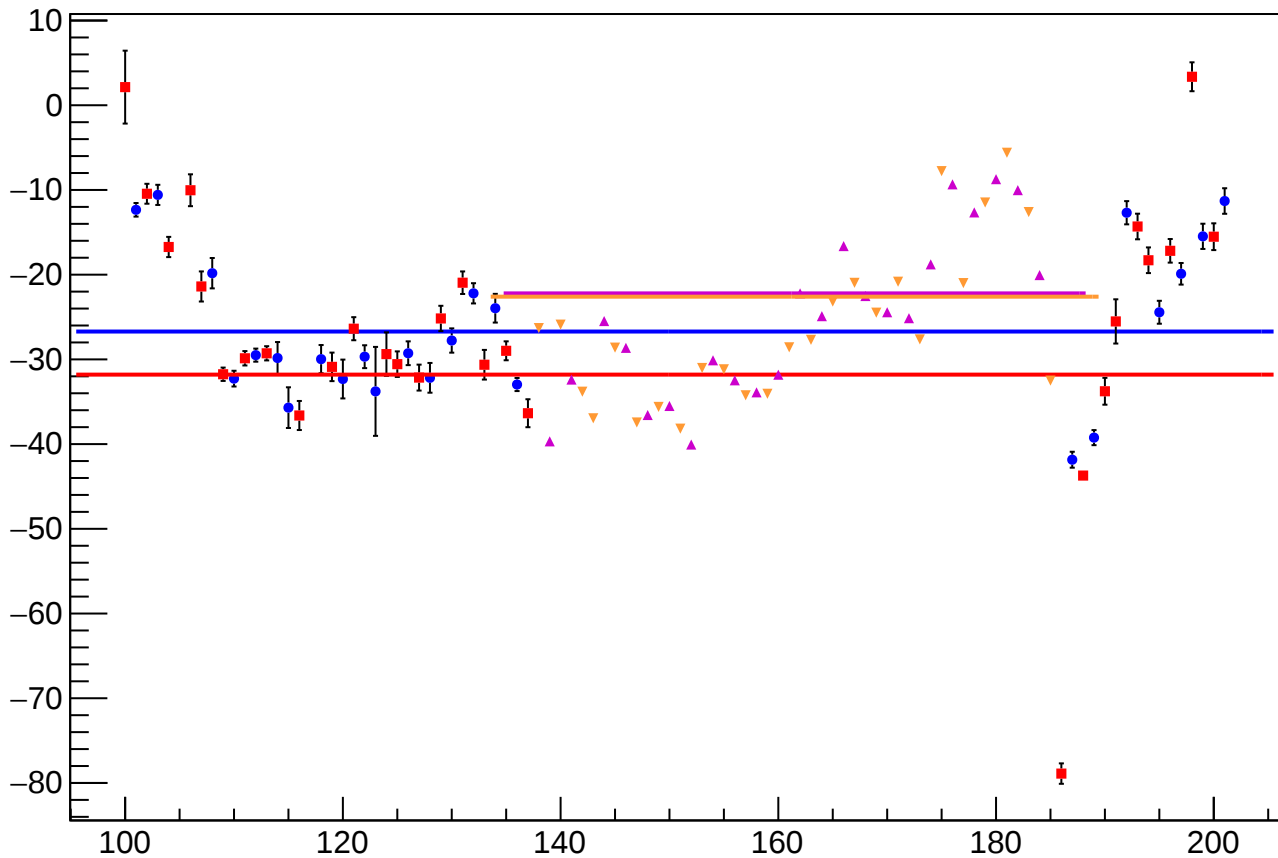
Right: 1.326 ± 0.116 $\chi^2/\text{NDF}: 1970.5/51$

In: 3.524 ± 0.054 $\chi^2/\text{NDF}: 6681.6/46$

Out: 3.486 ± 0.053 $\chi^2/\text{NDF}: 8759.2/52$

All: 3.504 ± 0.038 $\chi^2/\text{NDF}: 15441.1/99$

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

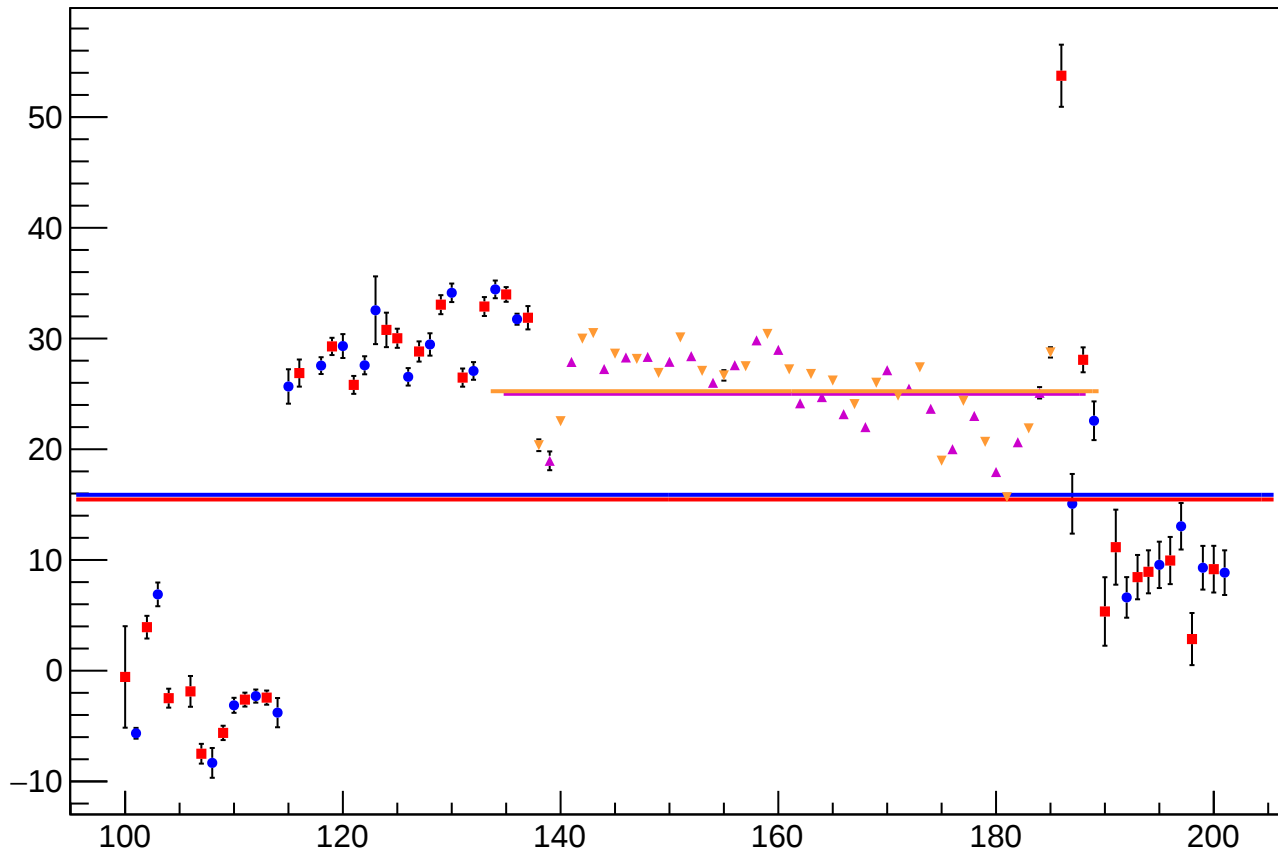
Right: -29.532 ± 0.167 $\chi^2/\text{NDF}: 5686.6/51$

In: -22.551 ± 0.069 $\chi^2/\text{NDF}: 19379.9/46$

Out: -23.432 ± 0.067 $\chi^2/\text{NDF}: 25473.0/52$

All: -23.000 ± 0.048 $\chi^2/\text{NDF}: 44936.5/99$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.886 $\pm$ 0.187 χ^2 /NDF: 7618.1/23

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.463 $\pm$ 0.189 χ^2 /NDF: 7654.3/27

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

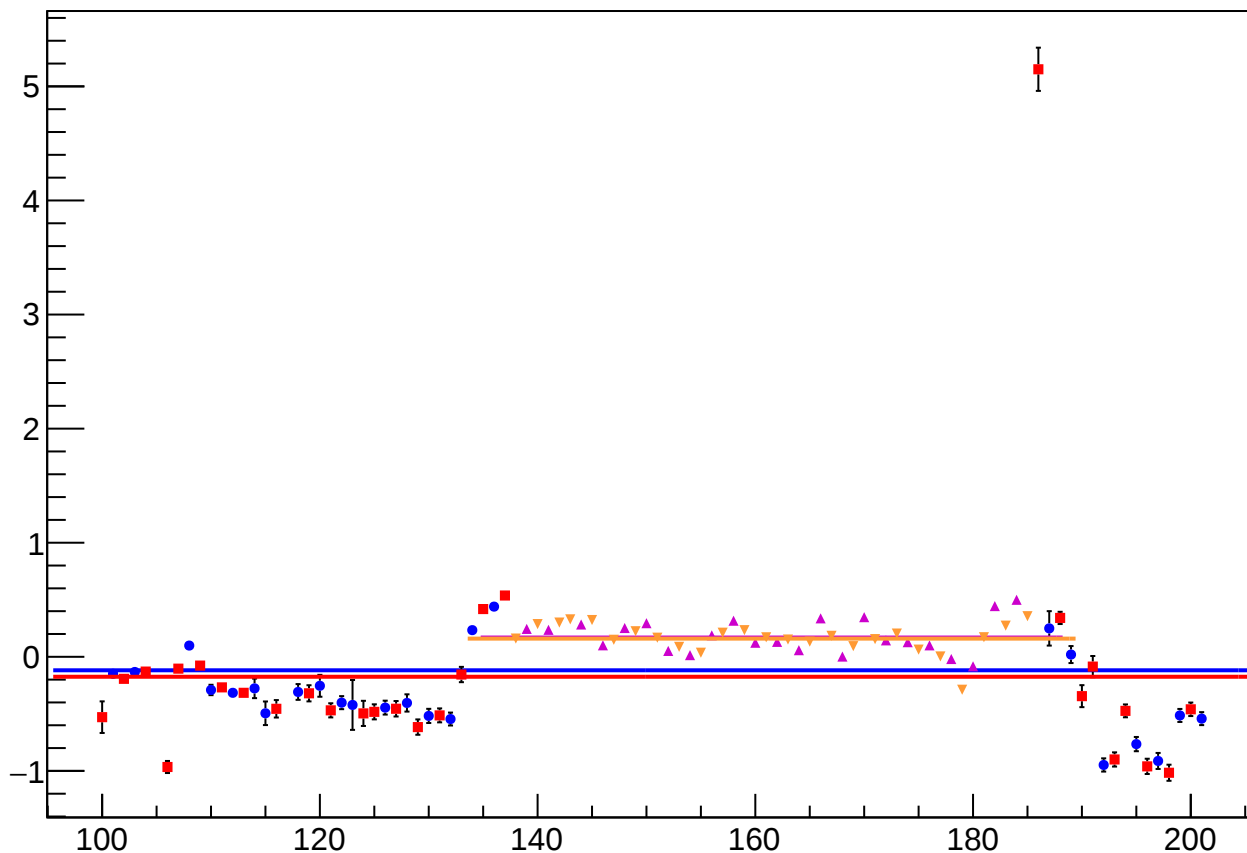
Right: 15.678 $\pm$ 0.133 χ^2 /NDF: 15274.9/51

In: 24.052 $\pm$ 0.060 χ^2 /NDF:12480.8/46

Out: 24.277 $\pm$ 0.059 χ^2 /NDF:13847.1/52

All: 24.166 $\pm$ 0.042 χ^2 /NDF: 26334.9/99

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.118 ± 0.010 χ^2/NDF : 1630.2/23

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.175 ± 0.009 χ^2/NDF : 2530.9/27

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

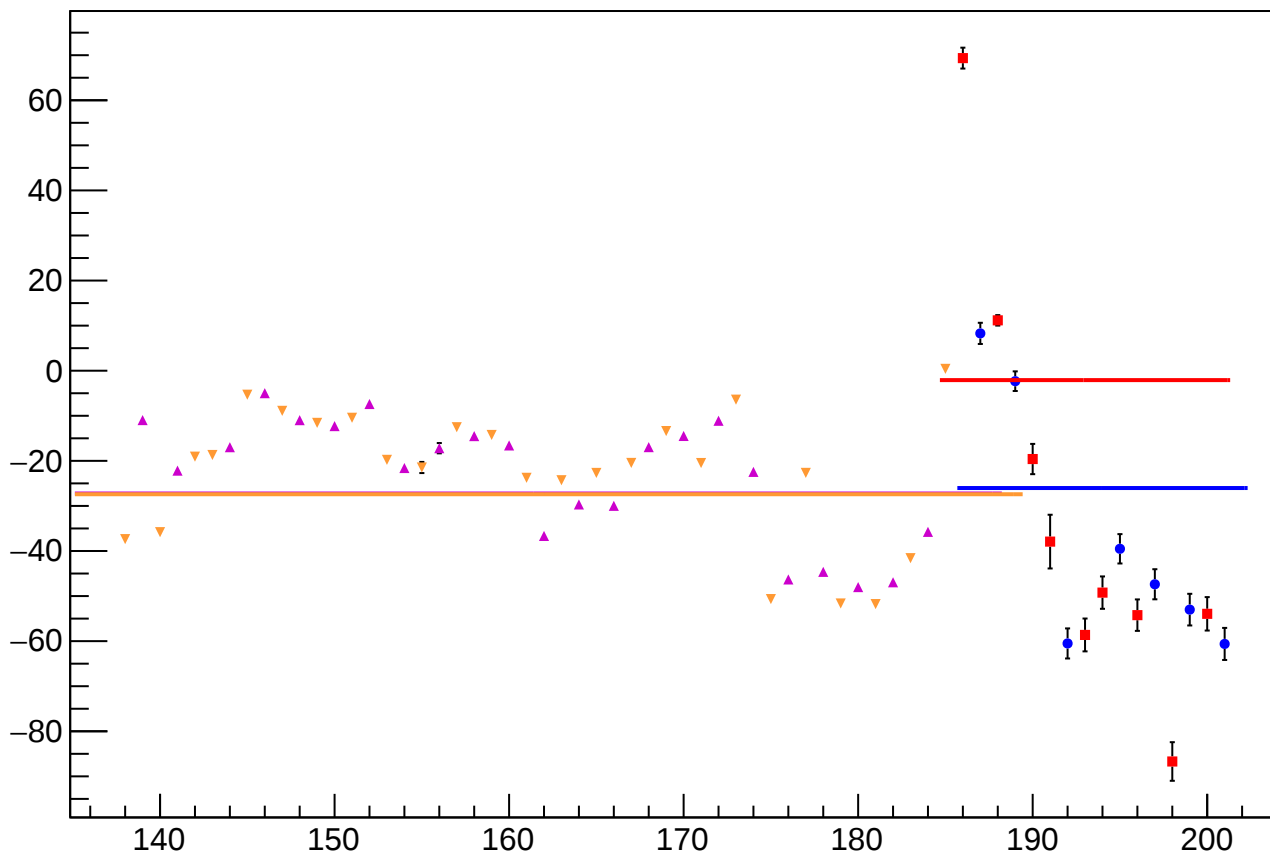
Right: -0.147 ± 0.007 χ^2/NDF : 4178.9/51

In: 0.144 ± 0.003 χ^2/NDF : 4874.5/46

Out: 0.131 ± 0.003 χ^2/NDF : 5536.7/52

All: 0.138 ± 0.002 χ^2/NDF : 10422.6/99

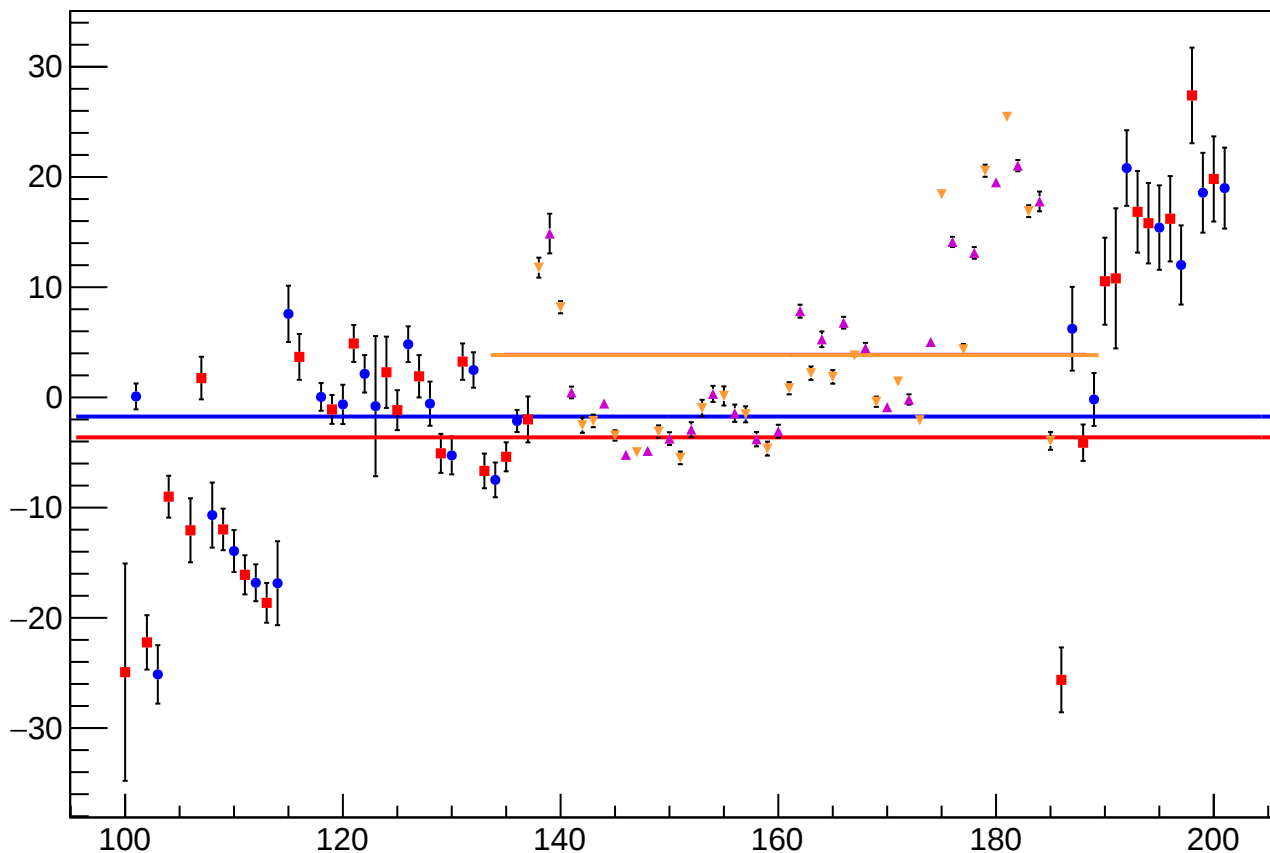
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -26.030 ± 1.100 $\chi^2/\text{NDF}: 650.0/6$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -2.086 ± 0.843 $\chi^2/\text{NDF}: 2366.2/8$
 Left In: -27.243 ± 0.139 $\chi^2/\text{NDF}: 11305.2/22$

Left: -27.327 ± 0.098 $\chi^2/\text{NDF}: 26156.4/47$
 Right: -10.942 ± 0.669 $\chi^2/\text{NDF}: 3314.6/15$
 In: -27.224 ± 0.138 $\chi^2/\text{NDF}: 11956.4/29$
 Out: -26.758 ± 0.135 $\chi^2/\text{NDF}: 18095.7/33$
 All: -26.985 ± 0.097 $\chi^2/\text{NDF}: 30057.9/63$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.736 ± 0.391 χ^2/NDF : 435.8/23

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -3.623 ± 0.396 χ^2/NDF : 550.7/27

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

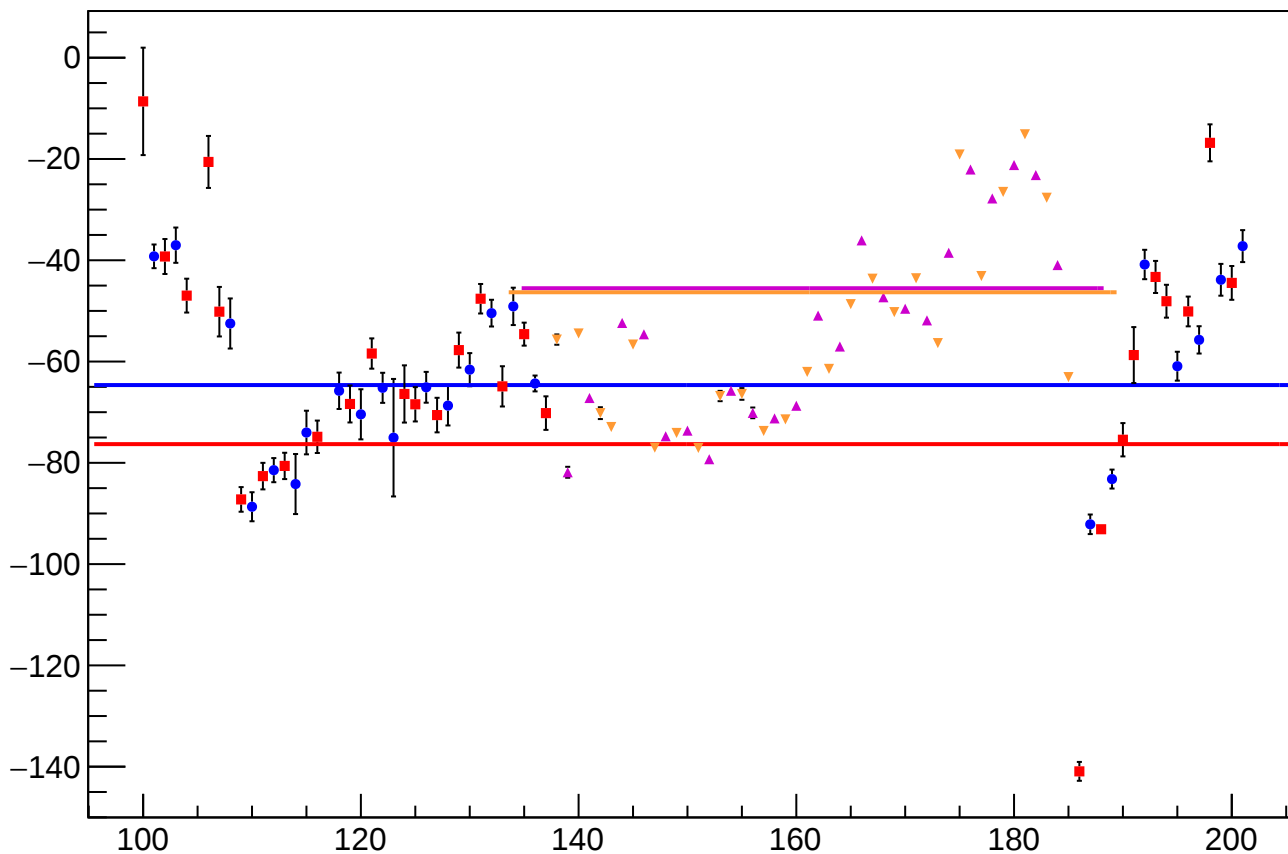
Right: -2.670 ± 0.278 χ^2/NDF : 998.1/51

In: 3.448 ± 0.107 χ^2/NDF : 6049.4/46

Out: 3.313 ± 0.105 χ^2/NDF : 7820.7/52

All: 3.379 ± 0.075 χ^2/NDF : 13870.8/99

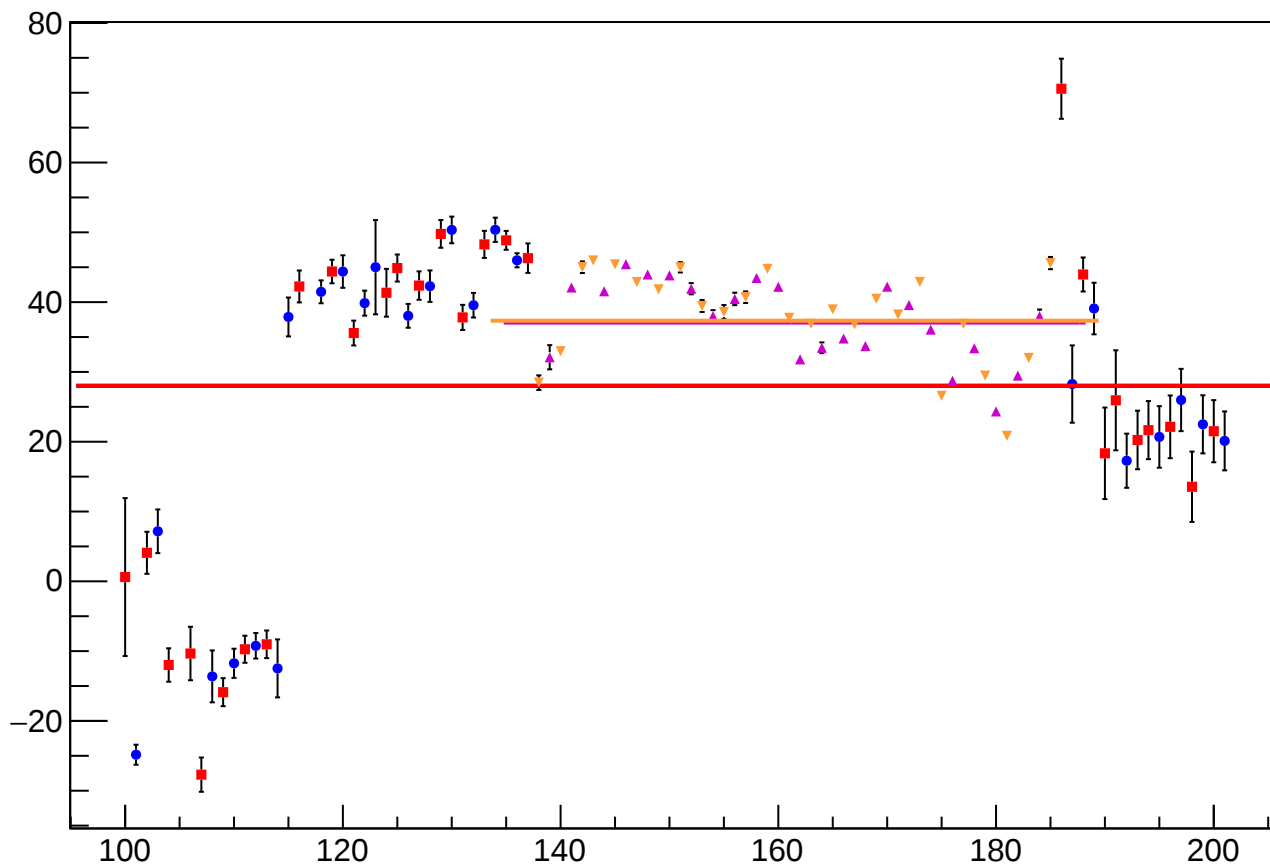
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.643 ± 0.582 $\chi^2/\text{NDF}: 874.1/23$
 Left Out: -46.318 ± 0.138 $\chi^2/\text{NDF}: 20134.6/24$
 Right Out: -76.307 ± 0.514 $\chi^2/\text{NDF}: 2844.9/27$
 Left In: -45.522 ± 0.140 $\chi^2/\text{NDF}: 17525.4/22$

Left: -45.925 ± 0.098 $\chi^2/\text{NDF}: 37676.5/47$
 Right: -71.201 ± 0.385 $\chi^2/\text{NDF}: 3944.9/51$
 In: -46.564 ± 0.136 $\chi^2/\text{NDF}: 19420.0/46$
 Out: -48.336 ± 0.133 $\chi^2/\text{NDF}: 26160.1/52$
 All: -47.467 ± 0.095 $\chi^2/\text{NDF}: 45666.7/99$

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.007 $\pm$ 0.443 χ^2 /NDF: 3336.0/23

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.023 $\pm$ 0.453 χ^2 /NDF: 3193.6/27

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

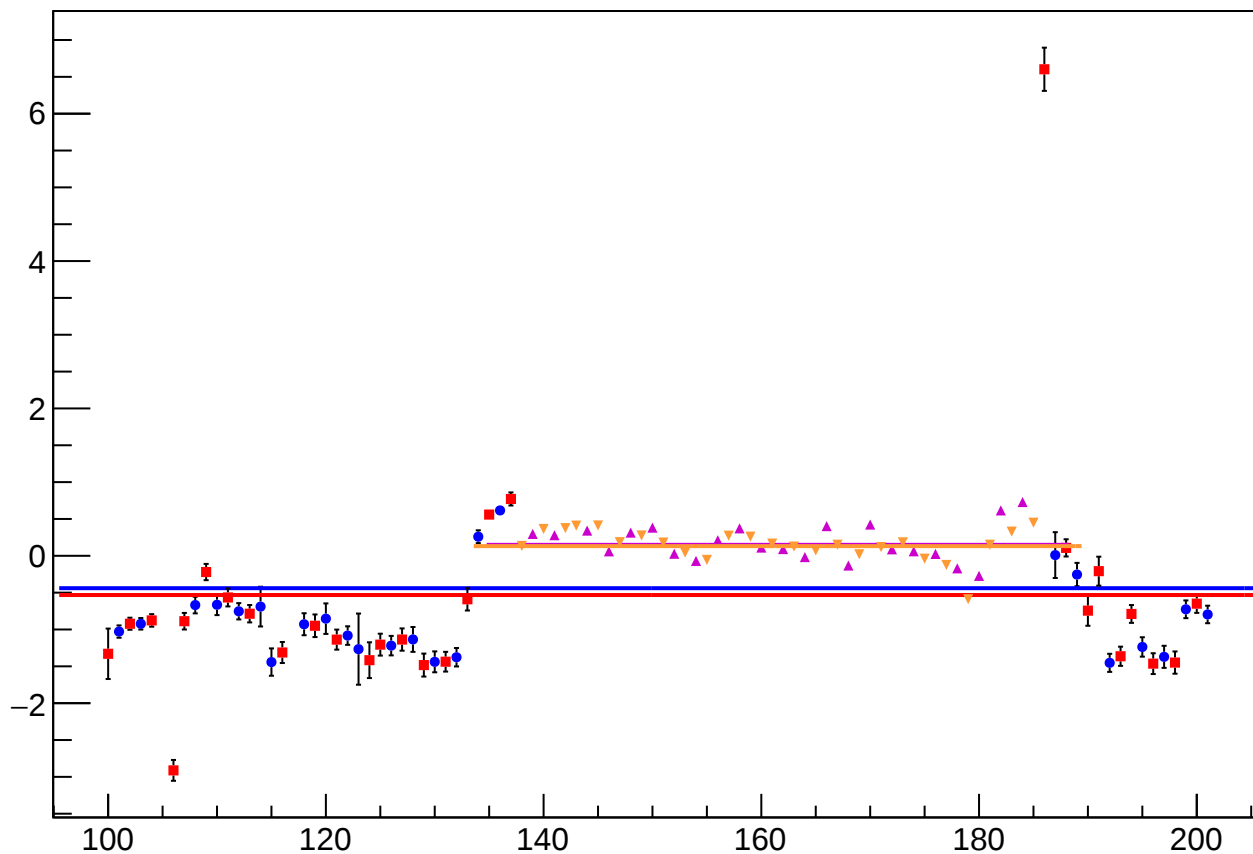
Right: 28.015 $\pm$ 0.317 χ^2 /NDF: 6529.6/51

In: 36.403 $\pm$ 0.120 χ^2 /NDF:6121.3/46

Out: 36.702 $\pm$ 0.119 χ^2 /NDF:6736.2/52

All: 36.555 $\pm$ 0.084 χ^2 /NDF: 12860.6/99

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.439 ± 0.023 χ^2/NDF : 1193.6/23

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.532 ± 0.023 χ^2/NDF : 1912.1/27

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

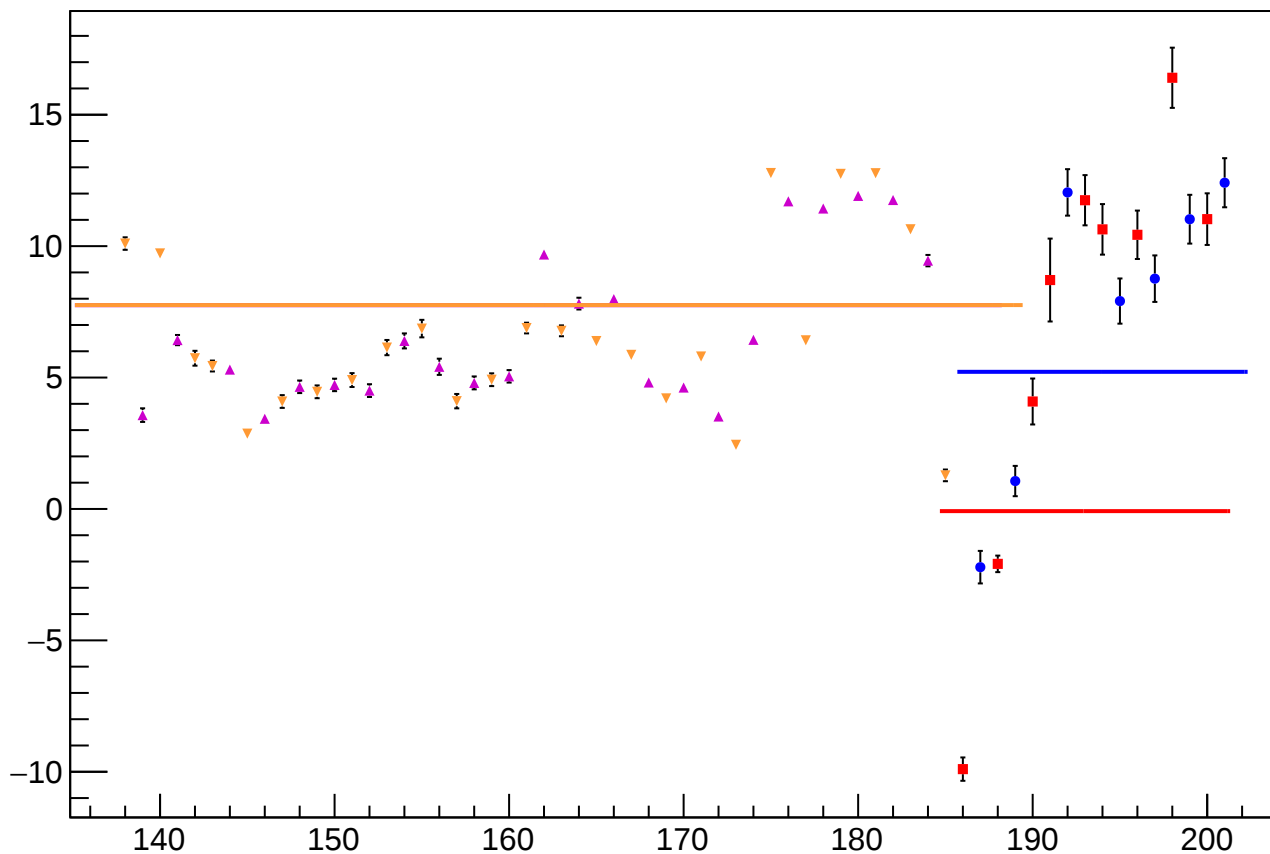
Right: -0.485 ± 0.016 χ^2/NDF : 3114.1/51

In: 0.113 ± 0.006 χ^2/NDF : 3634.7/46

Out: 0.093 ± 0.005 χ^2/NDF : 4136.7/52

All: 0.103 ± 0.004 χ^2/NDF : 7778.0/99

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.218 ± 0.291 $\chi^2/\text{NDF}: 380.1/6$

Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$

Right Out: -0.082 ± 0.213 $\chi^2/\text{NDF}: 1325.9/8$

Left In: 7.753 ± 0.035 $\chi^2/\text{NDF}: 8345.2/22$

Left: 7.755 ± 0.025 $\chi^2/\text{NDF}: 20073.8/47$

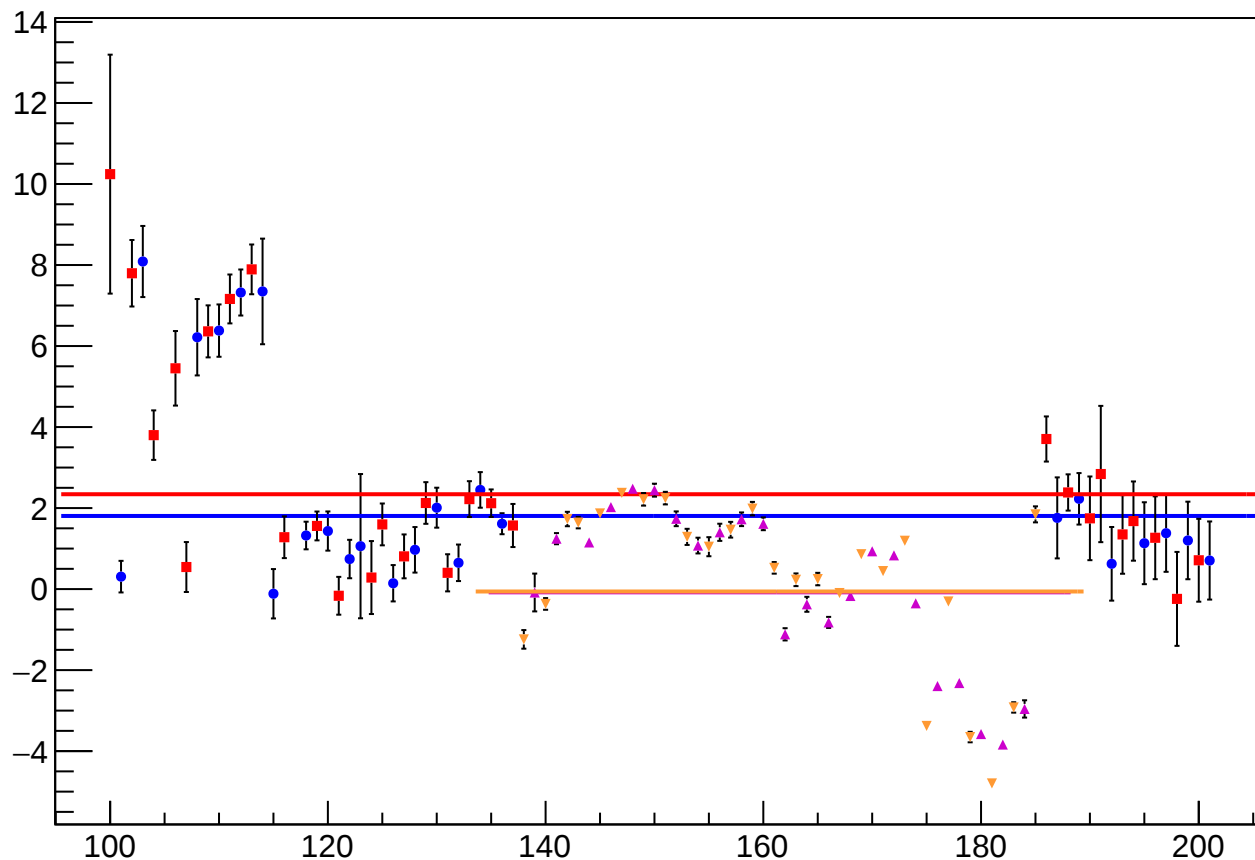
Right: 1.770 ± 0.172 $\chi^2/\text{NDF}: 1922.2/15$

In: 7.716 ± 0.035 $\chi^2/\text{NDF}: 8800.2/29$

Out: 7.559 ± 0.034 $\chi^2/\text{NDF}: 14374.4/33$

All: 7.635 ± 0.024 $\chi^2/\text{NDF}: 23185.1/63$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



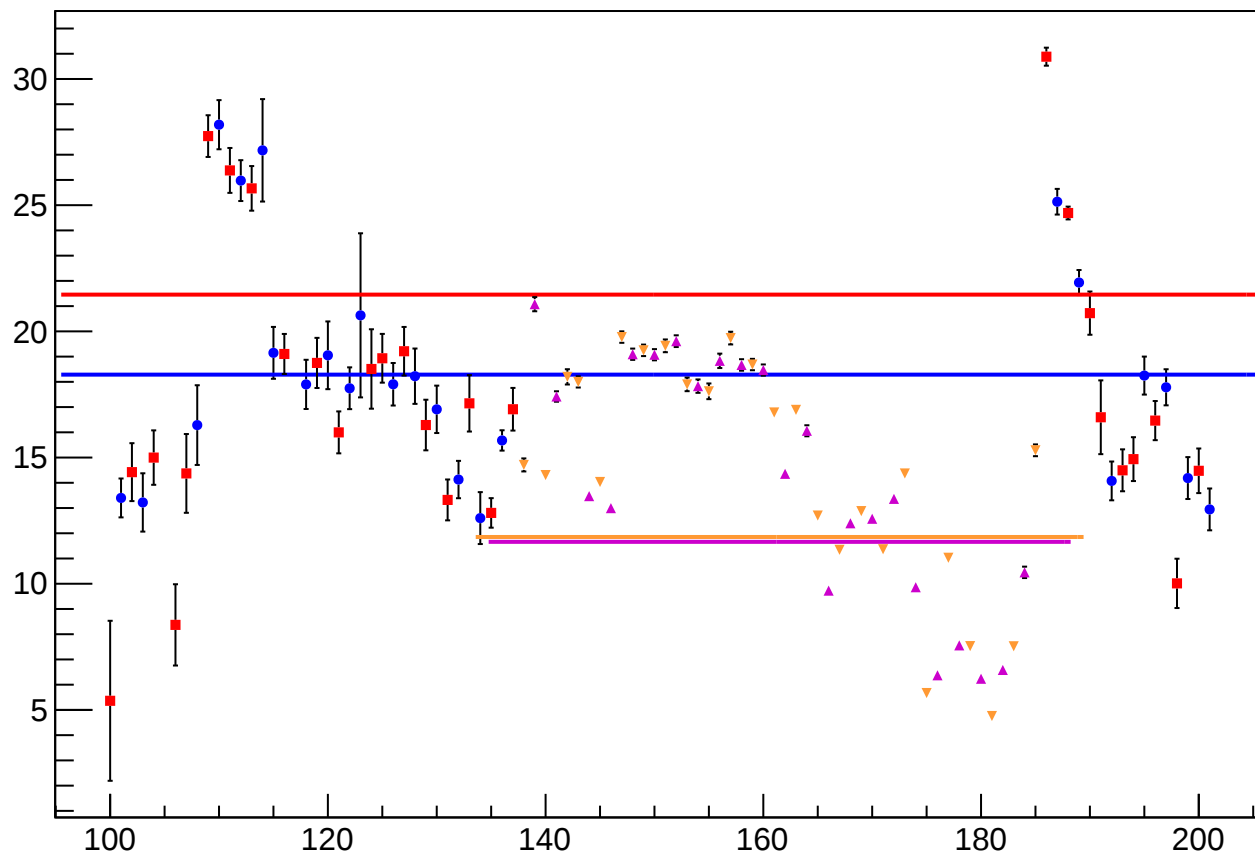
Right In: 1.805 $\pm$ 0.111 χ^2 /NDF: 297.9/23
 Left Out: -0.059 $\pm$ 0.028 χ^2 /NDF:6068.8/24
 Right Out: 2.342 $\pm$ 0.111 χ^2 /NDF: 352.1/27
 Left In: -0.080 $\pm$ 0.028 χ^2 /NDF:4979.5/22

Left: -0.070 $\pm$ 0.020 χ^2 /NDF: 11048.5/47
 Right: 2.072 $\pm$ 0.079 χ^2 /NDF: 661.7/51

In: 0.035 $\pm$ 0.027 χ^2 /NDF:5549.8/46
 Out: 0.081 $\pm$ 0.027 χ^2 /NDF:6858.6/52

All: 0.058 $\pm$ 0.019 χ^2 /NDF: 12409.8/99

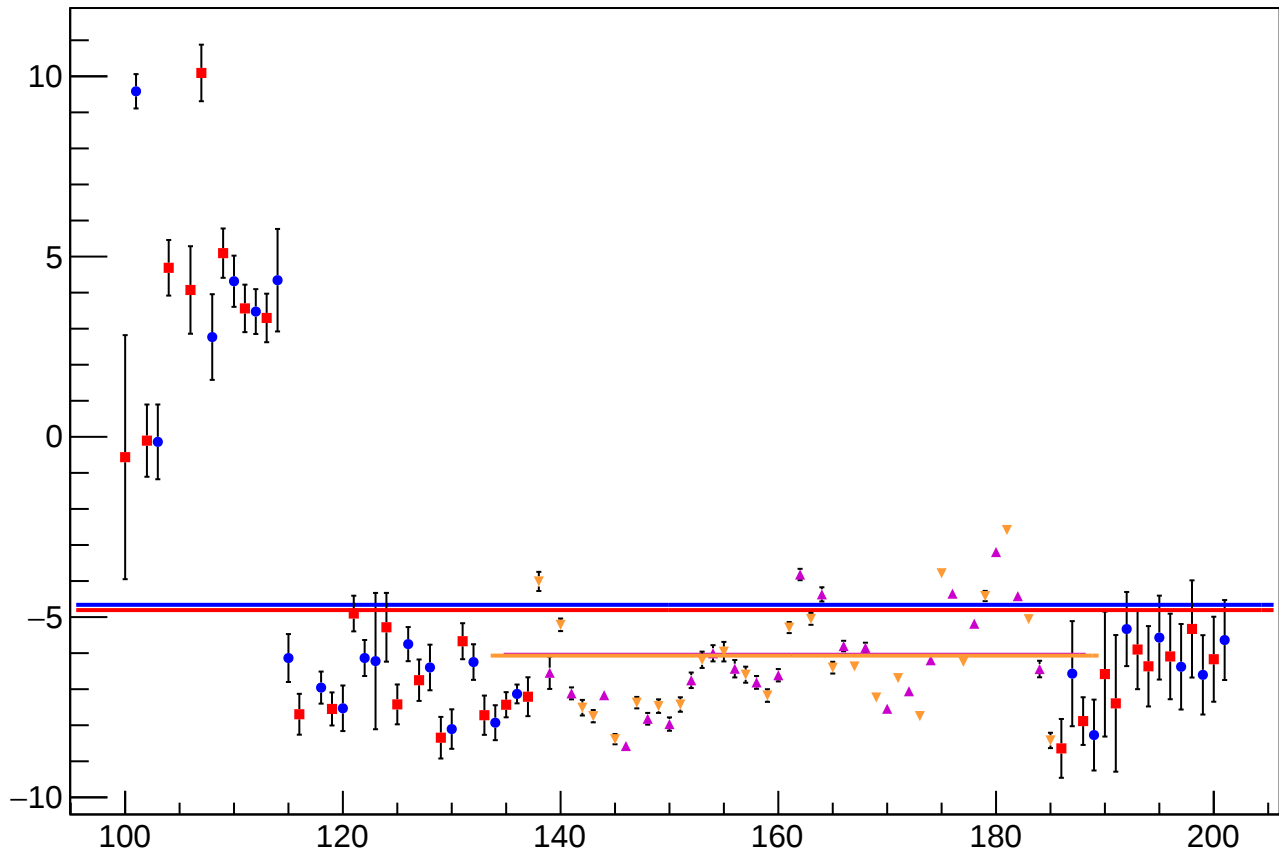
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.286 $\pm$ 0.162 χ^2 /NDF: 714.2/23
 Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24
 Right Out: 21.456 $\pm$ 0.138 χ^2 /NDF: 2000.6/27
 Left In: 11.660 $\pm$ 0.035 χ^2 /NDF:16710.2/22

Left: 11.758 $\pm$ 0.025 χ^2 /NDF: 35874.9/47
 Right: 20.122 $\pm$ 0.105 χ^2 /NDF: 2937.9/51
 In: 11.960 $\pm$ 0.034 χ^2 /NDF:19030.3/46
 Out: 12.426 $\pm$ 0.034 χ^2 /NDF:25722.8/52
 All: 12.198 $\pm$ 0.024 χ^2 /NDF: 44846.7/99

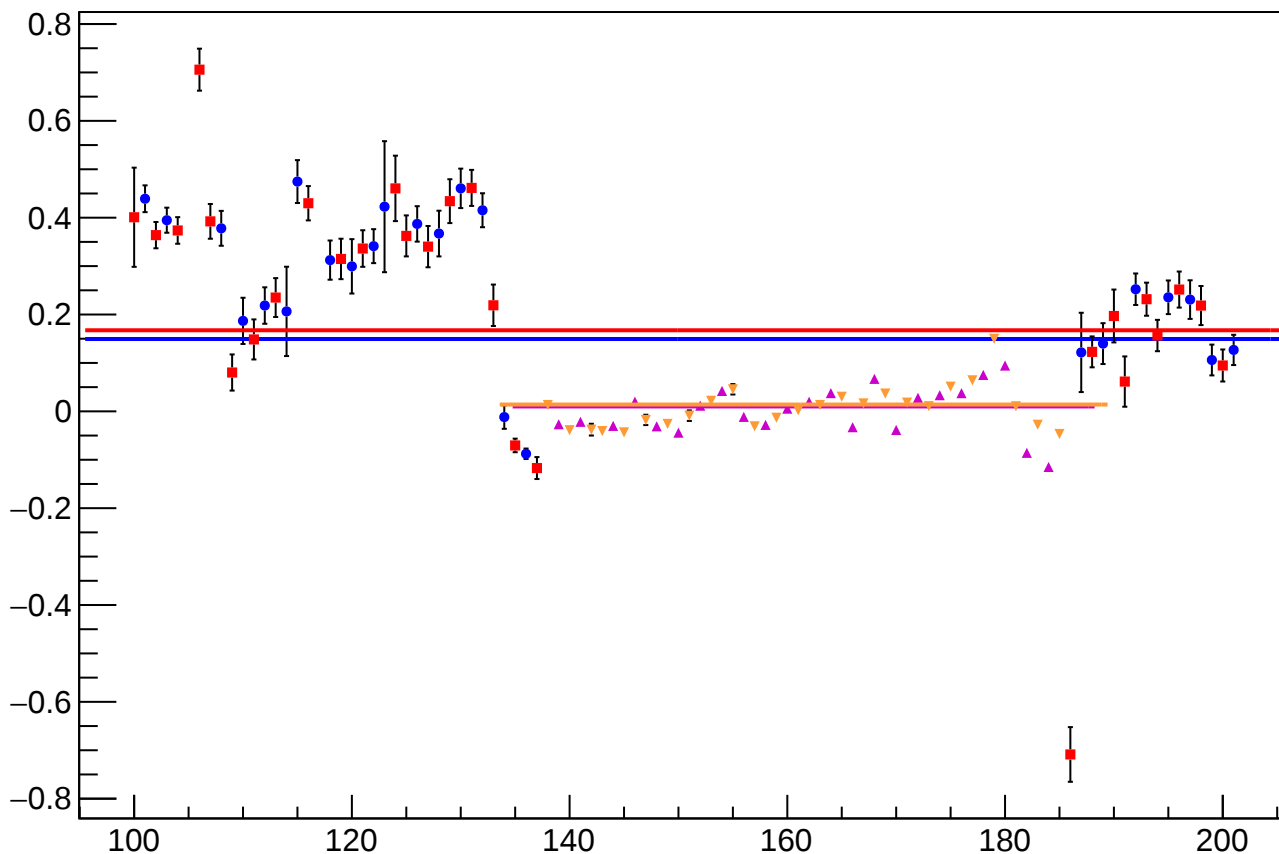
reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.660 ± 0.125 χ^2/NDF : 1606.6/23
 Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24
 Right Out: -4.806 ± 0.128 χ^2/NDF : 1399.2/27
 Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47
 Right: -4.731 ± 0.089 χ^2/NDF : 3006.5/51
 In: -5.961 ± 0.031 χ^2/NDF : 4016.0/46
 Out: -5.998 ± 0.030 χ^2/NDF : 4162.9/52
 All: -5.980 ± 0.022 χ^2/NDF : 8179.7/99

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.149 $\pm$ 0.006 χ^2 /NDF: 1081.6/23

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.167 $\pm$ 0.006 χ^2 /NDF: 1265.6/27

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

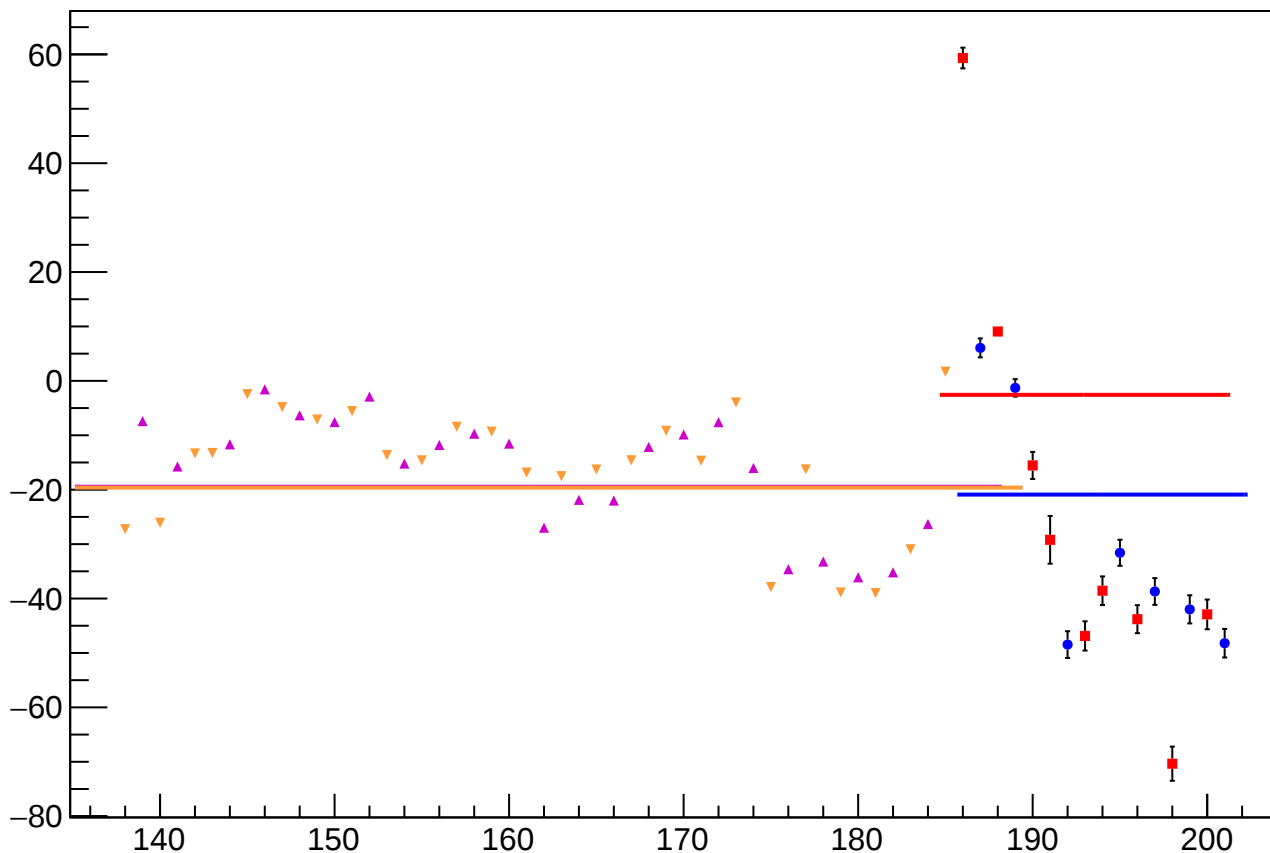
Right: 0.158 $\pm$ 0.005 χ^2 /NDF: 2351.2/51

In: 0.017 $\pm$ 0.001 χ^2 /NDF: 2760.7/46

Out: 0.021 $\pm$ 0.001 χ^2 /NDF: 2765.7/52

All: 0.019 $\pm$ 0.001 χ^2 /NDF: 5530.8/99

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -20.896 $\pm$ 0.812 χ^2 /NDF: 762.1/6
 Left Out: -19.612 $\pm$ 0.103 χ^2 /NDF:15761.3/24
 Right Out: -2.567 $\pm$ 0.626 χ^2 /NDF: 2712.6/8
 Left In: -19.450 $\pm$ 0.105 χ^2 /NDF:12283.1/22

Left: -19.533 $\pm$ 0.074 χ^2 /NDF: 28045.6/47

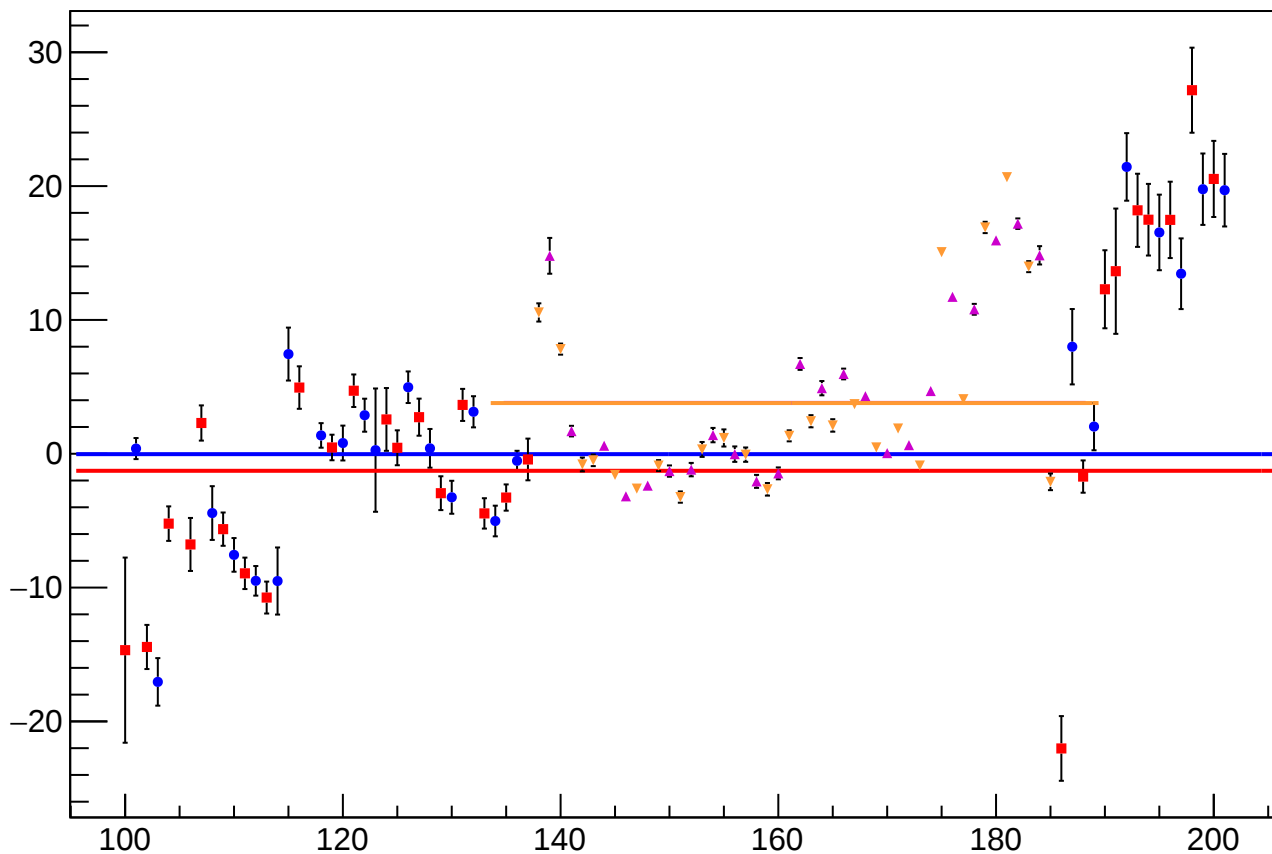
Right: -9.405 $\pm$ 0.496 χ^2 /NDF: 3794.4/15

In: -19.474 $\pm$ 0.104 χ^2 /NDF:13048.3/29

Out: -19.161 $\pm$ 0.102 χ^2 /NDF:19195.3/33

All: -19.314 $\pm$ 0.073 χ^2 /NDF: 32248.2/63

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.030 ± 0.279 χ^2/NDF : 544.8/23

Left Out: 3.788 ± 0.082 χ^2/NDF : 7150.5/24

Right Out: -1.273 ± 0.282 χ^2/NDF : 684.0/27

Left In: 3.799 ± 0.084 χ^2/NDF : 5517.0/22

Left: 3.793 ± 0.059 χ^2/NDF : 12667.5/47

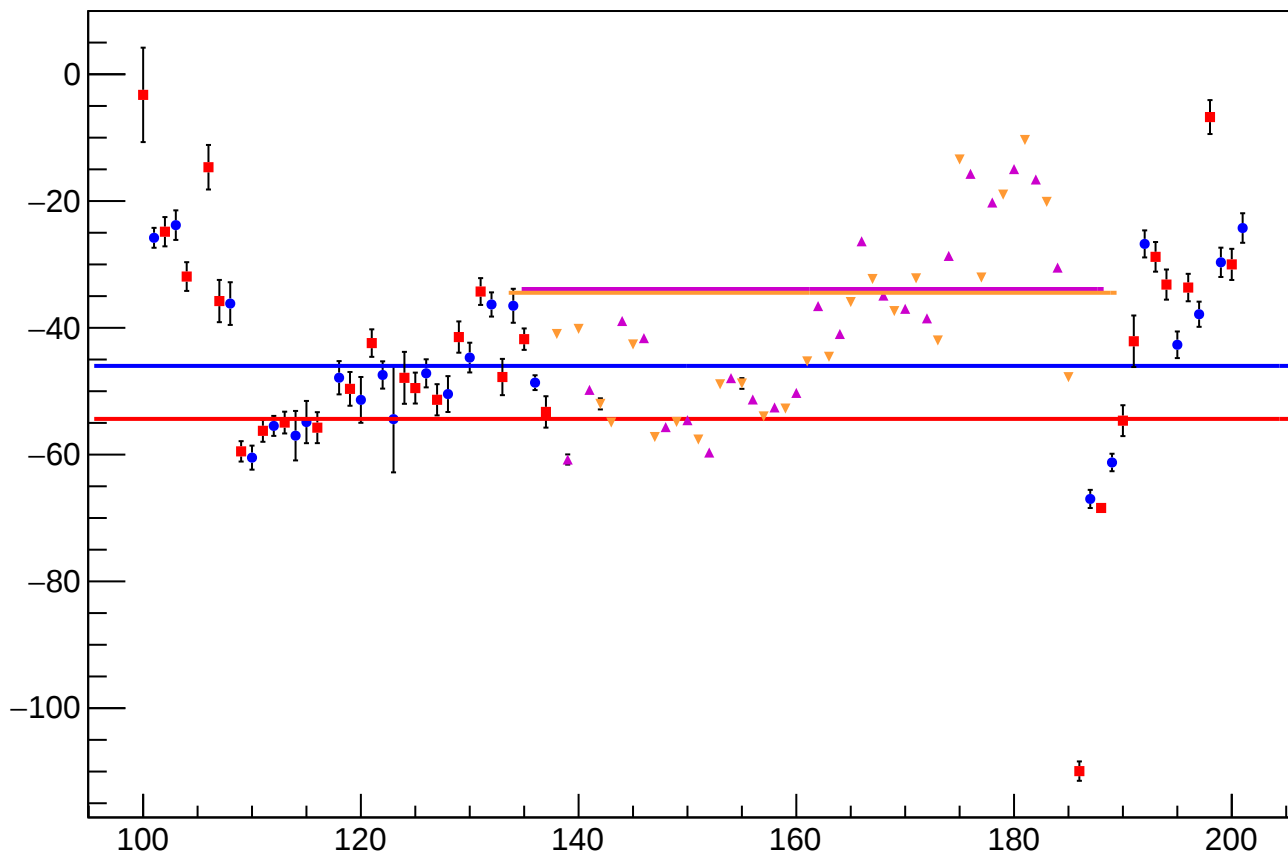
Right: -0.645 ± 0.199 χ^2/NDF : 1238.7/51

In: 3.484 ± 0.080 χ^2/NDF : 6234.2/46

Out: 3.394 ± 0.079 χ^2/NDF : 8131.0/52

All: 3.438 ± 0.056 χ^2/NDF : 14365.8/99

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -46.006 ± 0.418 $\chi^2/\text{NDF}: 999.9/23$

Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF}: 20196.3/24$

Right Out: -54.368 ± 0.372 $\chi^2/\text{NDF}: 3158.2/27$

Left In: -33.875 ± 0.105 $\chi^2/\text{NDF}: 17638.7/22$

Left: -34.177 ± 0.074 $\chi^2/\text{NDF}: 37851.2/47$

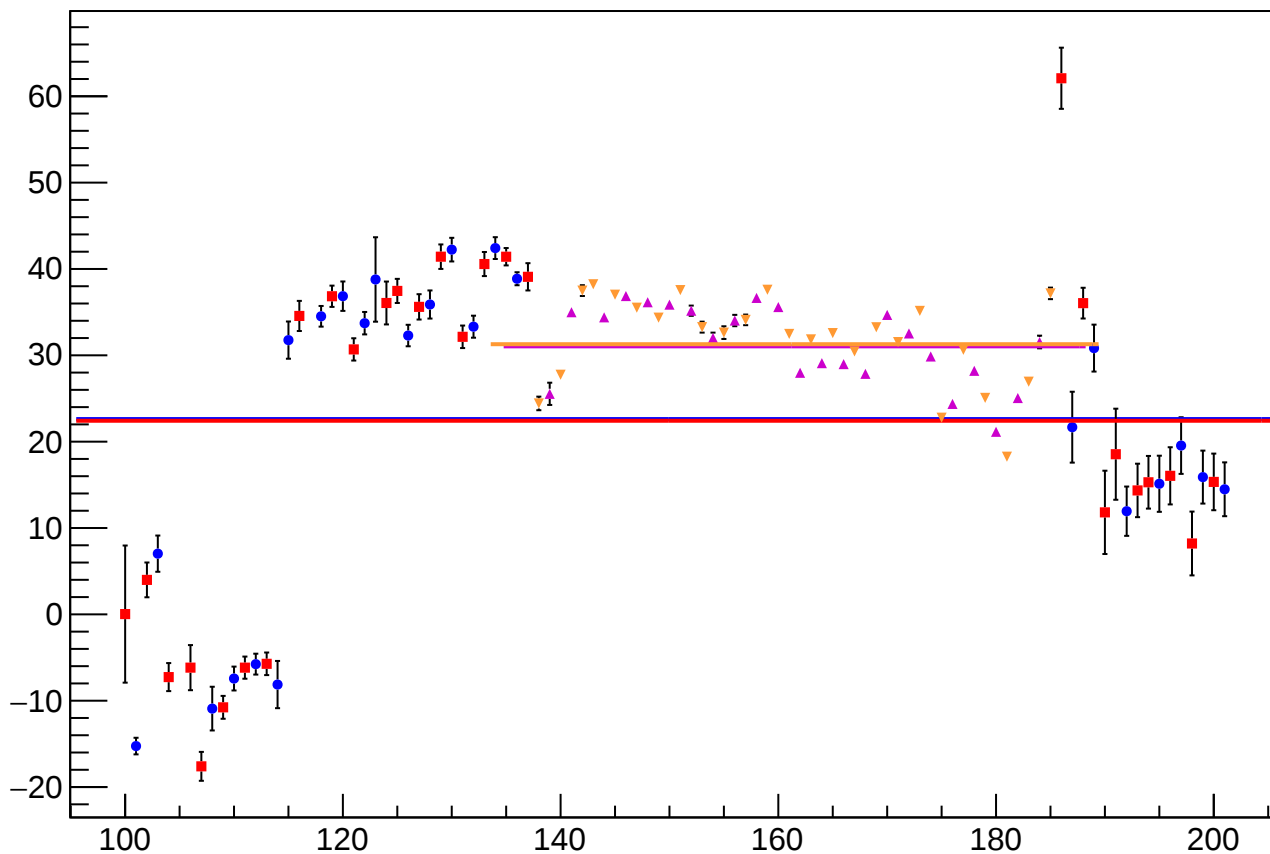
Right: -50.680 ± 0.278 $\chi^2/\text{NDF}: 4381.3/51$

In: -34.597 ± 0.102 $\chi^2/\text{NDF}: 19429.1/46$

Out: -35.914 ± 0.100 $\chi^2/\text{NDF}: 26012.1/52$

All: -35.269 ± 0.071 $\chi^2/\text{NDF}: 45526.1/99$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.615 $\pm$ 0.317 χ^2 /NDF: 4359.0/23

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.423 $\pm$ 0.323 χ^2 /NDF: 4255.7/27

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

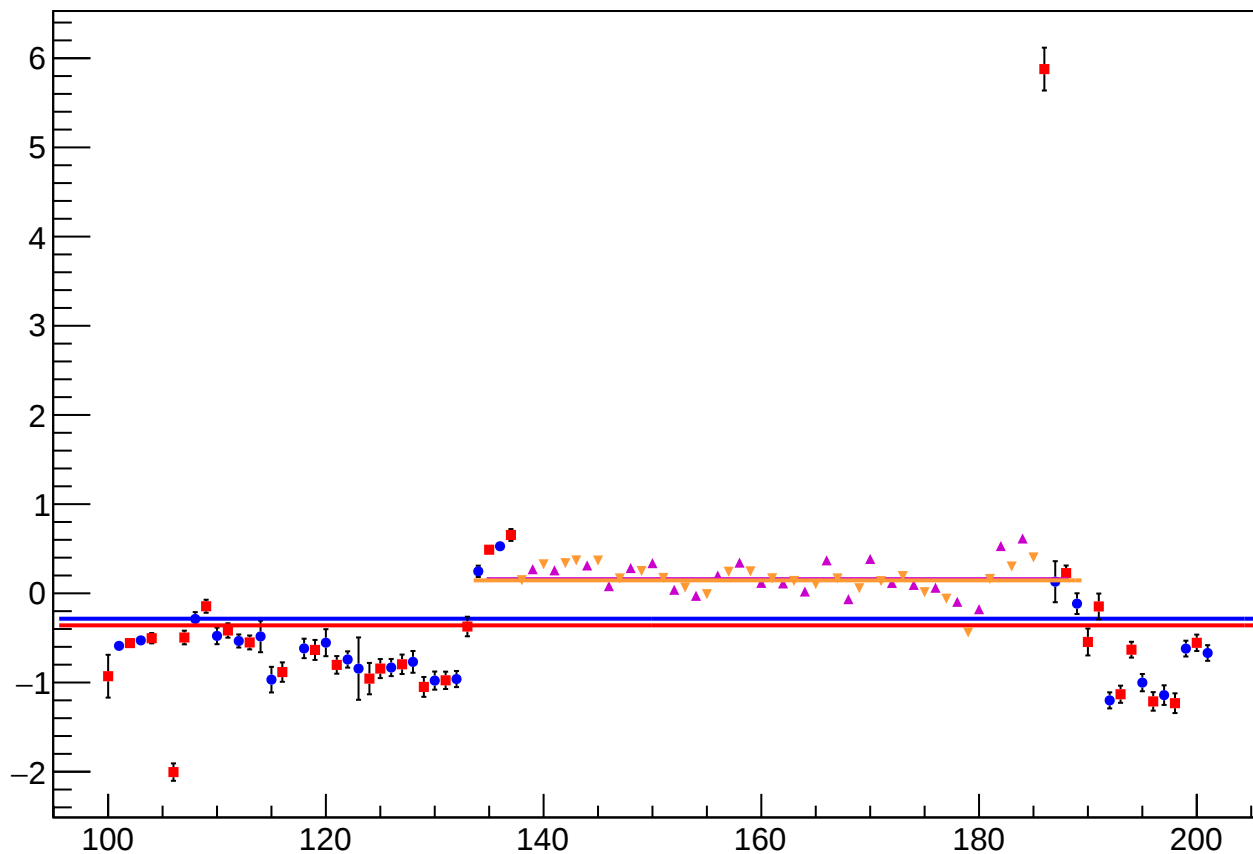
Right: 22.521 $\pm$ 0.226 χ^2 /NDF: 8614.8/51

In: 30.354 $\pm$ 0.090 χ^2 /NDF:7489.2/46

Out: 30.617 $\pm$ 0.089 χ^2 /NDF:8296.1/52

All: 30.488 $\pm$ 0.063 χ^2 /NDF: 15789.6/99

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.285 ± 0.016 χ^2/NDF : 1286.7/23

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.359 ± 0.016 χ^2/NDF : 2110.2/27

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

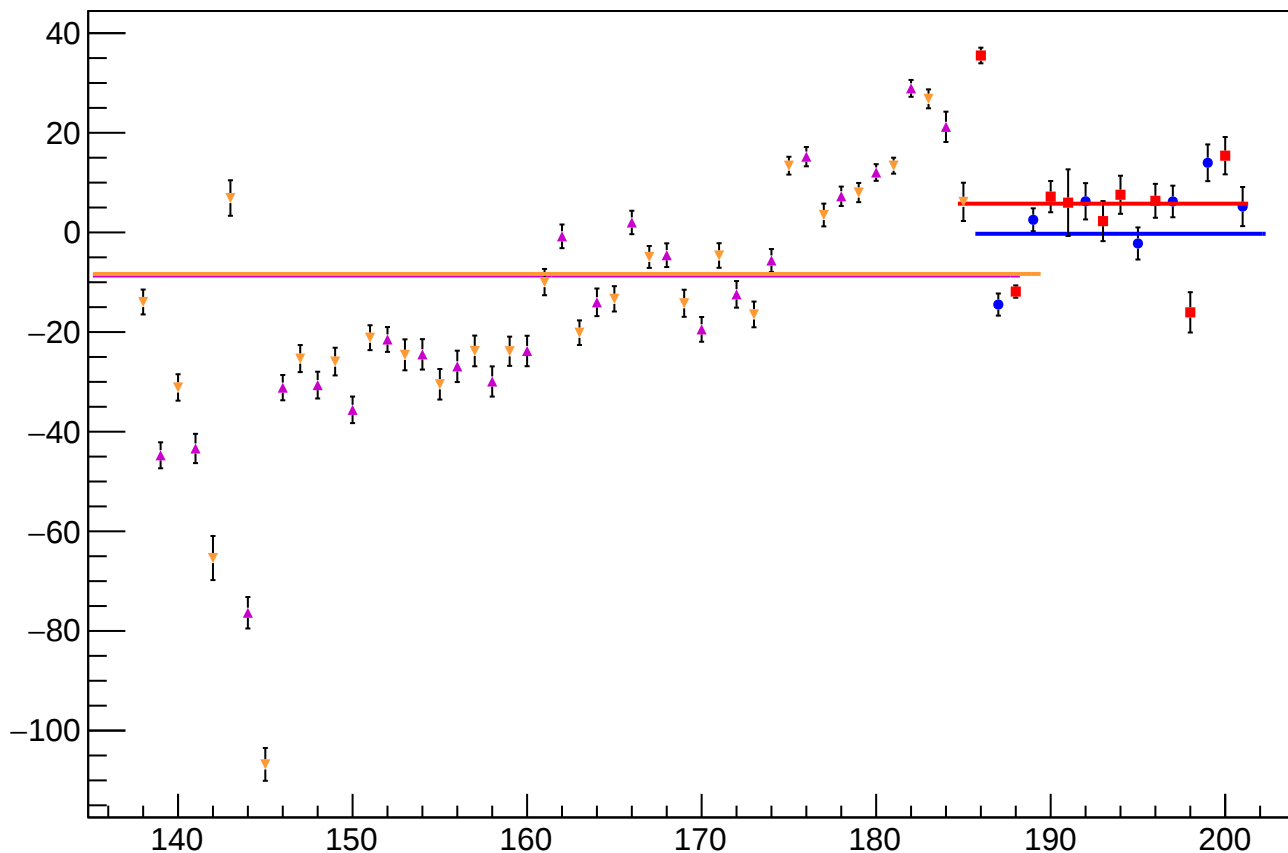
Right: -0.322 ± 0.011 χ^2/NDF : 3407.5/51

In: 0.129 ± 0.004 χ^2/NDF : 3998.5/46

Out: 0.113 ± 0.004 χ^2/NDF : 4593.1/52

All: 0.121 ± 0.003 χ^2/NDF : 8599.2/99

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



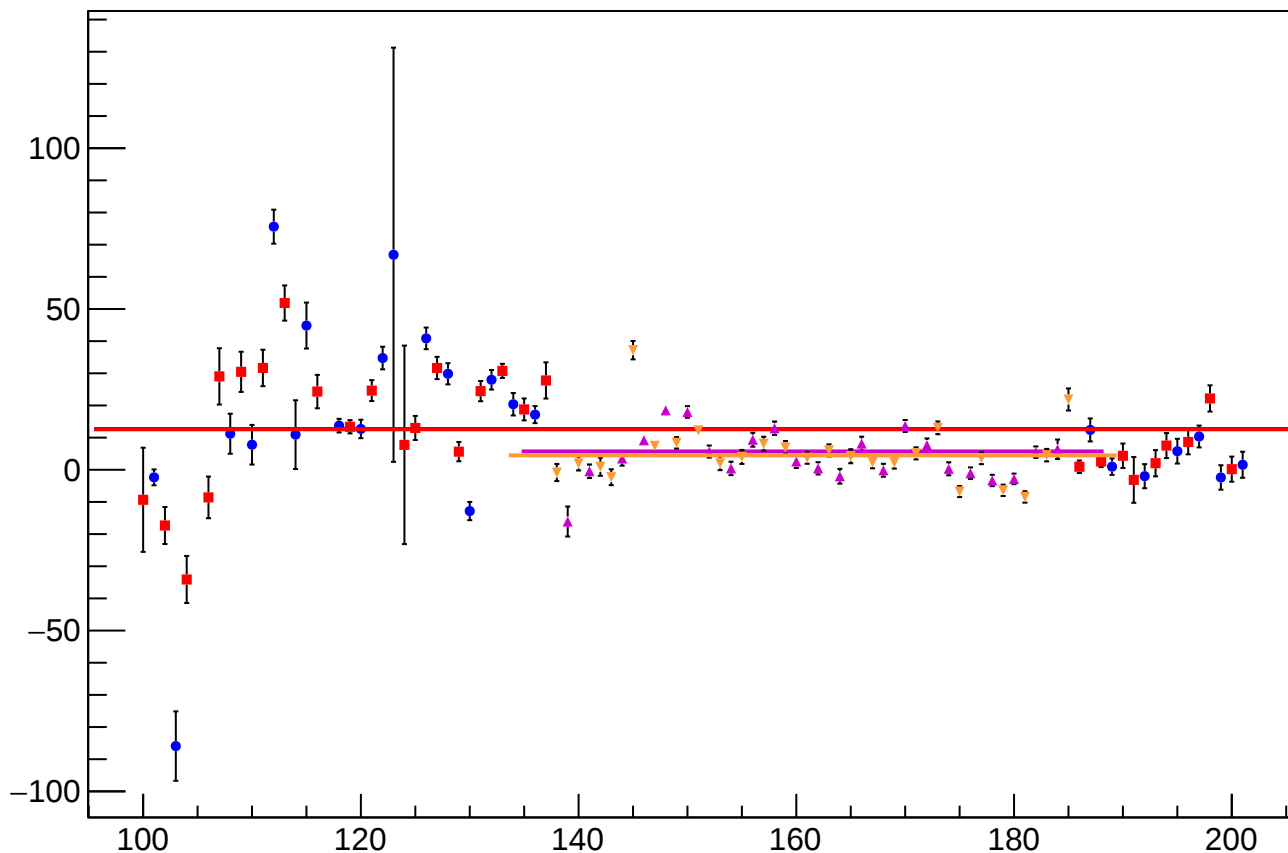
Right In: -0.272 ± 1.117 $\chi^2/\text{NDF}: 67.1/6$
 Left Out: -8.332 ± 0.500 $\chi^2/\text{NDF}: 2226.2/24$
 Right Out: 5.773 ± 0.809 $\chi^2/\text{NDF}: 598.2/8$
 Left In: -8.652 ± 0.507 $\chi^2/\text{NDF}: 2223.8/22$

Left: -8.490 ± 0.356 $\chi^2/\text{NDF}: 4450.2/47$
 Right: 3.695 ± 0.655 $\chi^2/\text{NDF}: 684.5/15$

In: -7.220 ± 0.462 $\chi^2/\text{NDF}: 2337.6/29$
 Out: -4.435 ± 0.425 $\chi^2/\text{NDF}: 3044.6/33$

All: -5.712 ± 0.313 $\chi^2/\text{NDF}: 5401.9/63$

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.684 $\pm$ 0.718 χ^2 /NDF: 598.4/23

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF:371.9/24

Right Out: 12.598 $\pm$ 0.667 χ^2 /NDF: 407.0/27

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

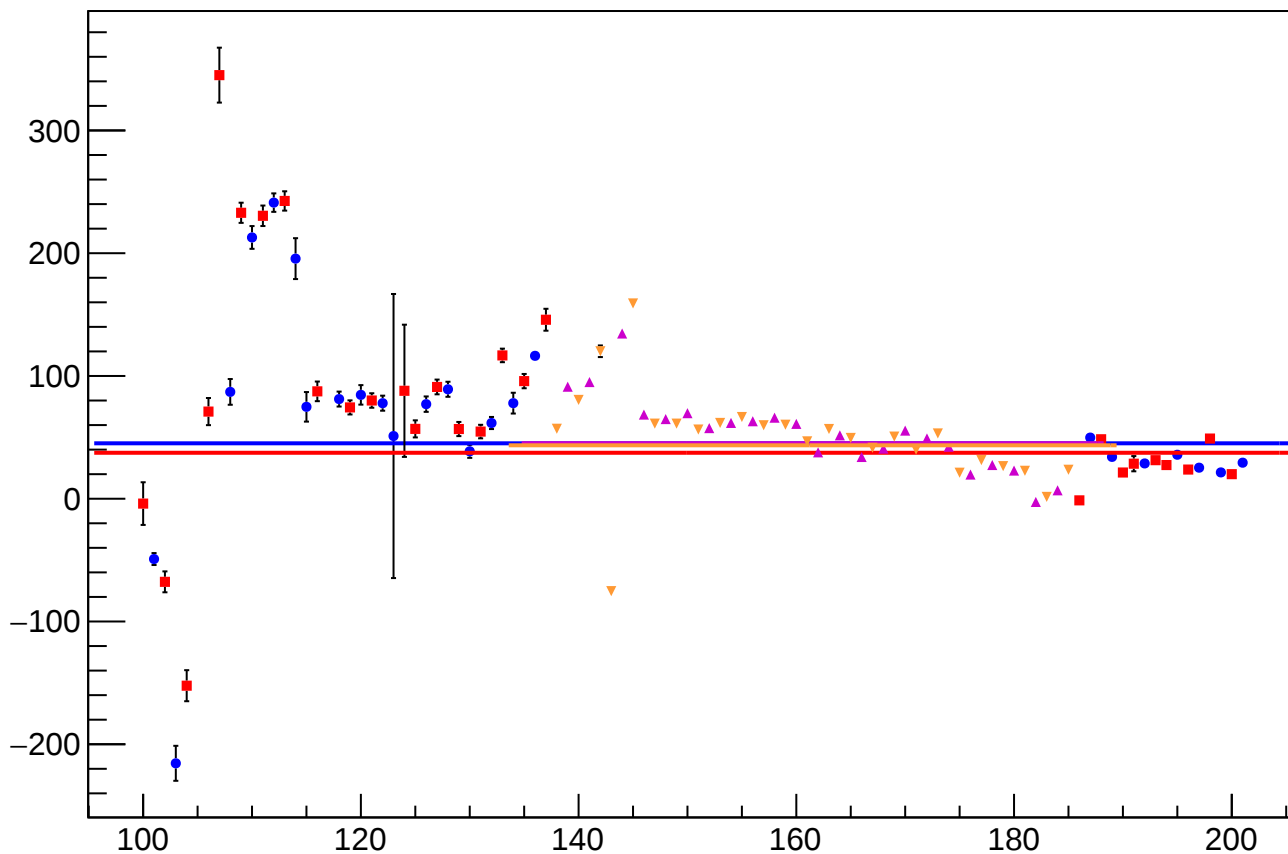
Right: 12.638 $\pm$ 0.489 χ^2 /NDF: 1005.4/51

In: 7.383 $\pm$ 0.352 χ^2 /NDF:994.2/46

Out: 6.568 $\pm$ 0.338 χ^2 /NDF:888.8/52

All: 6.959 $\pm$ 0.244 χ^2 /NDF: 1885.7/99

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 45.148 $\pm$ 0.819 χ^2 /NDF: 2527.8/23

Left Out: 43.524 $\pm$ 0.498 χ^2 /NDF: 3830.7/24

Right Out: 37.440 $\pm$ 0.623 χ^2 /NDF: 4233.4/27

Left In: 45.211 $\pm$ 0.504 χ^2 /NDF: 3048.5/22

Left: 44.358 $\pm$ 0.354 χ^2 /NDF: 6884.8/47

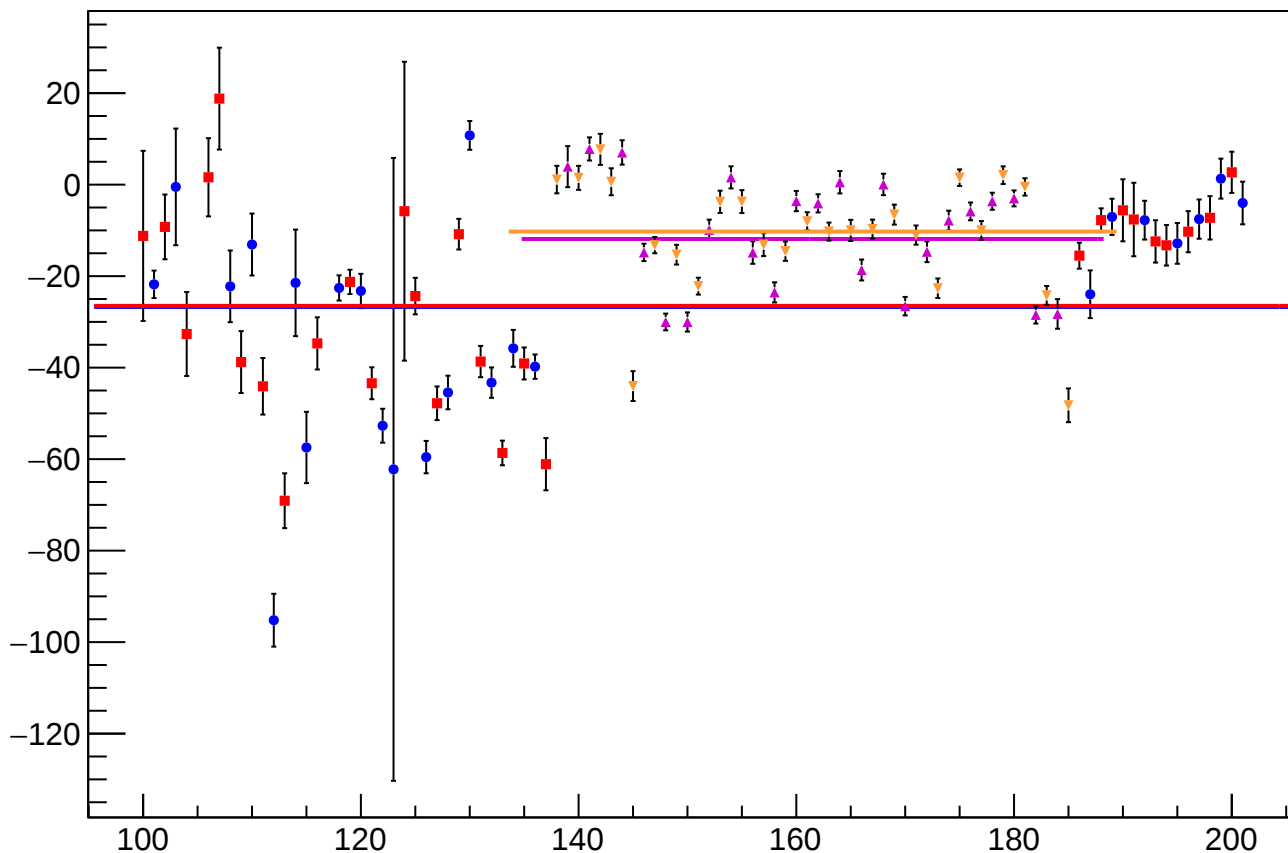
Right: 40.267 $\pm$ 0.496 χ^2 /NDF: 6817.2/51

In: 45.194 $\pm$ 0.429 χ^2 /NDF: 5576.3/46

Out: 41.152 $\pm$ 0.389 χ^2 /NDF: 8122.1/52

All: 42.975 $\pm$ 0.288 χ^2 /NDF: 13747.1/99

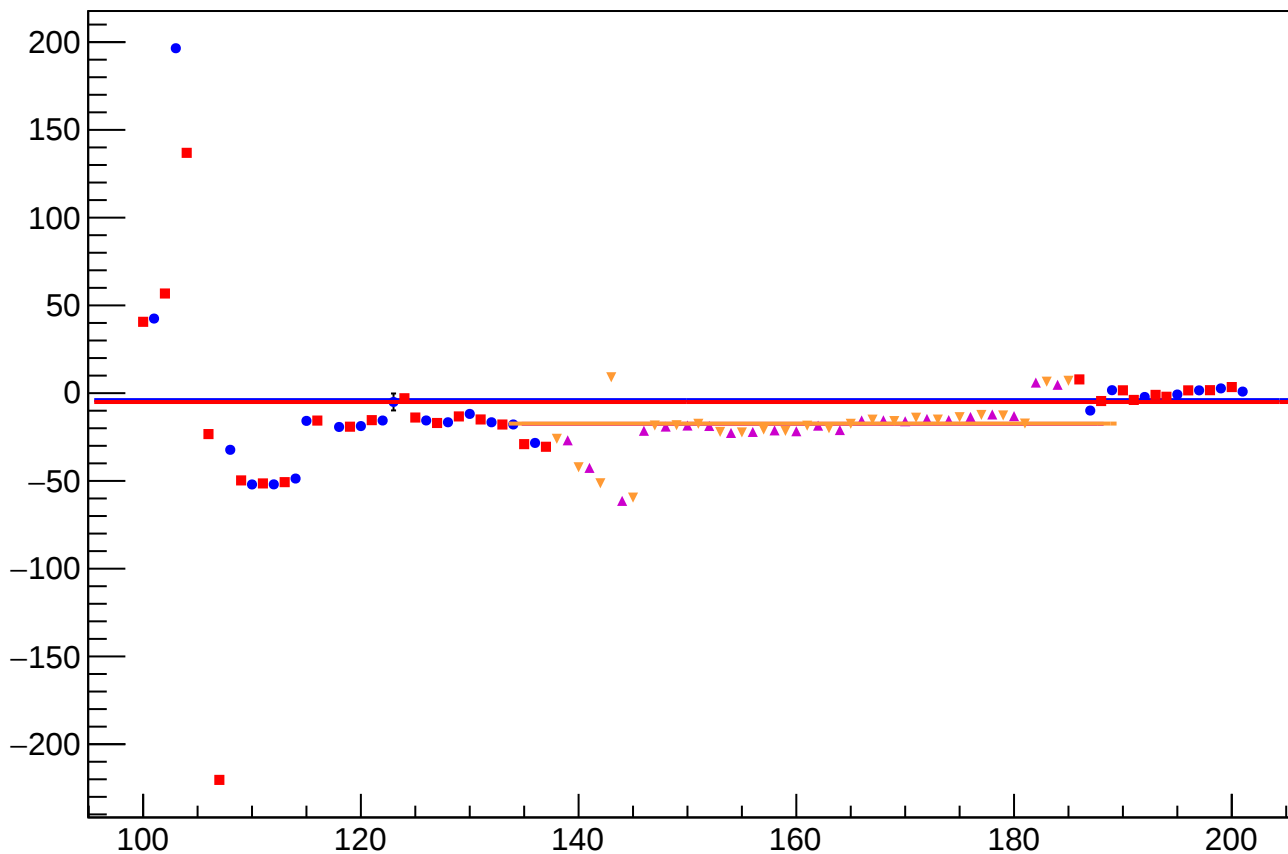
reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -26.728 ± 0.847 $\chi^2/\text{NDF}: 668.2/23$
 Left Out: -10.257 ± 0.444 $\chi^2/\text{NDF}: 552.4/24$
 Right Out: -26.502 ± 0.816 $\chi^2/\text{NDF}: 559.3/27$
 Left In: -11.877 ± 0.456 $\chi^2/\text{NDF}: 666.2/22$

Left: -11.046 ± 0.318 $\chi^2/\text{NDF}: 1225.1/47$
 Right: -26.611 ± 0.588 $\chi^2/\text{NDF}: 1227.5/51$
 In: -15.213 ± 0.402 $\chi^2/\text{NDF}: 1572.6/46$
 Out: -13.970 ± 0.390 $\chi^2/\text{NDF}: 1417.4/52$
 All: -14.574 ± 0.280 $\chi^2/\text{NDF}: 2994.9/99$

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -3.963 ± 0.041 $\chi^2/\text{NDF}: 589486.2/23$

Left Out: -17.333 ± 0.020 $\chi^2/\text{NDF}: 325197.2/24$

Right Out: -5.049 ± 0.039 $\chi^2/\text{NDF}: 590457.9/27$

Left In: -17.491 ± 0.021 $\chi^2/\text{NDF}: 259215.8/22$

Left: -17.411 ± 0.015 $\chi^2/\text{NDF}: 584442.6/47$

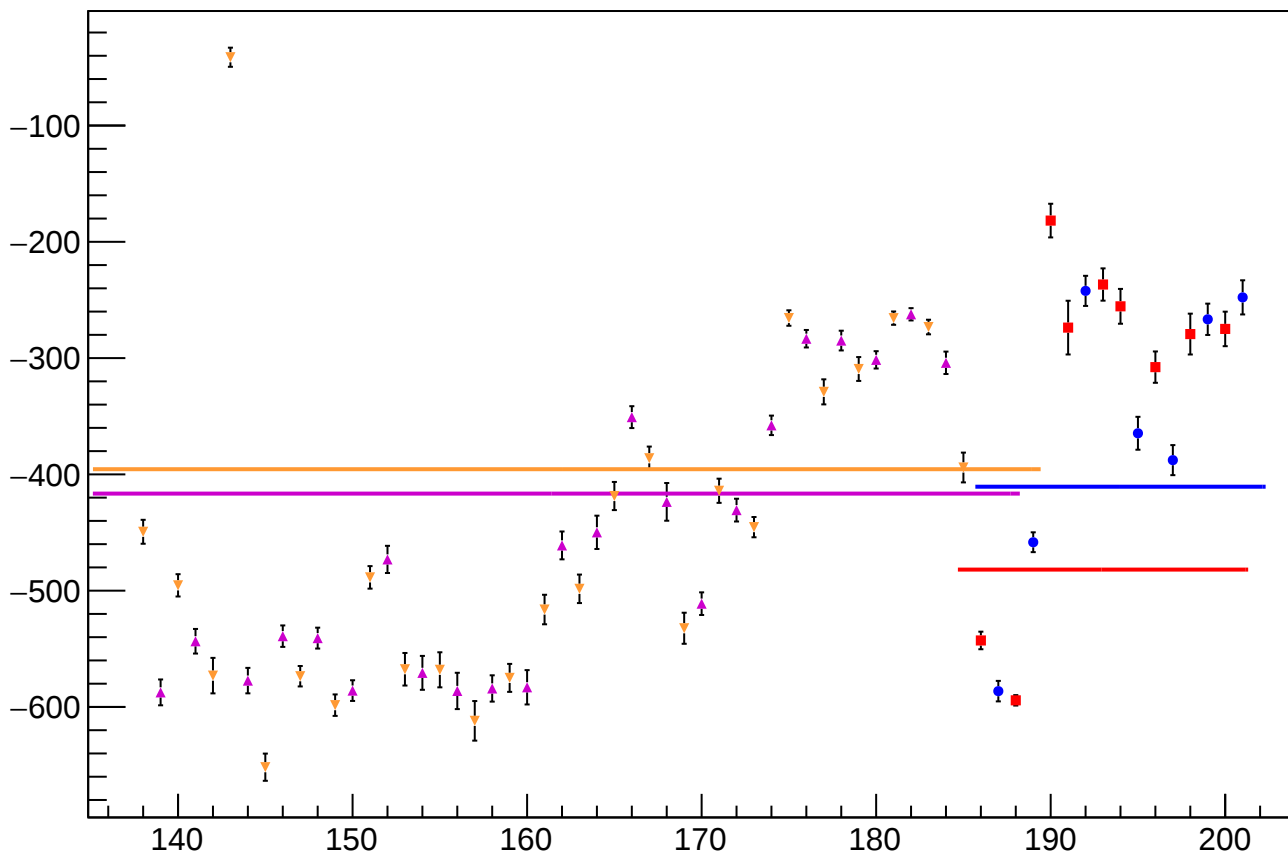
Right: -4.528 ± 0.028 $\chi^2/\text{NDF}: 1180316.0/51$

In: -14.710 ± 0.018 $\chi^2/\text{NDF}: 936718.7/46$

Out: -14.696 ± 0.018 $\chi^2/\text{NDF}: 993465.2/52$

All: -14.703 ± 0.013 $\chi^2/\text{NDF}: 1930184.1/99$

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -410.594 $\pm$ 4.315 χ^2 /NDF: 848.9/6

Left Out: -395.547 $\pm$ 1.953 χ^2 /NDF:5946.5/24

Right Out: -481.875 $\pm$ 3.214 χ^2 /NDF: 2239.2/8

Left In: -416.521 $\pm$ 2.005 χ^2 /NDF:3917.0/22

Left: -405.762 $\pm$ 1.399 χ^2 /NDF: 9919.7/47

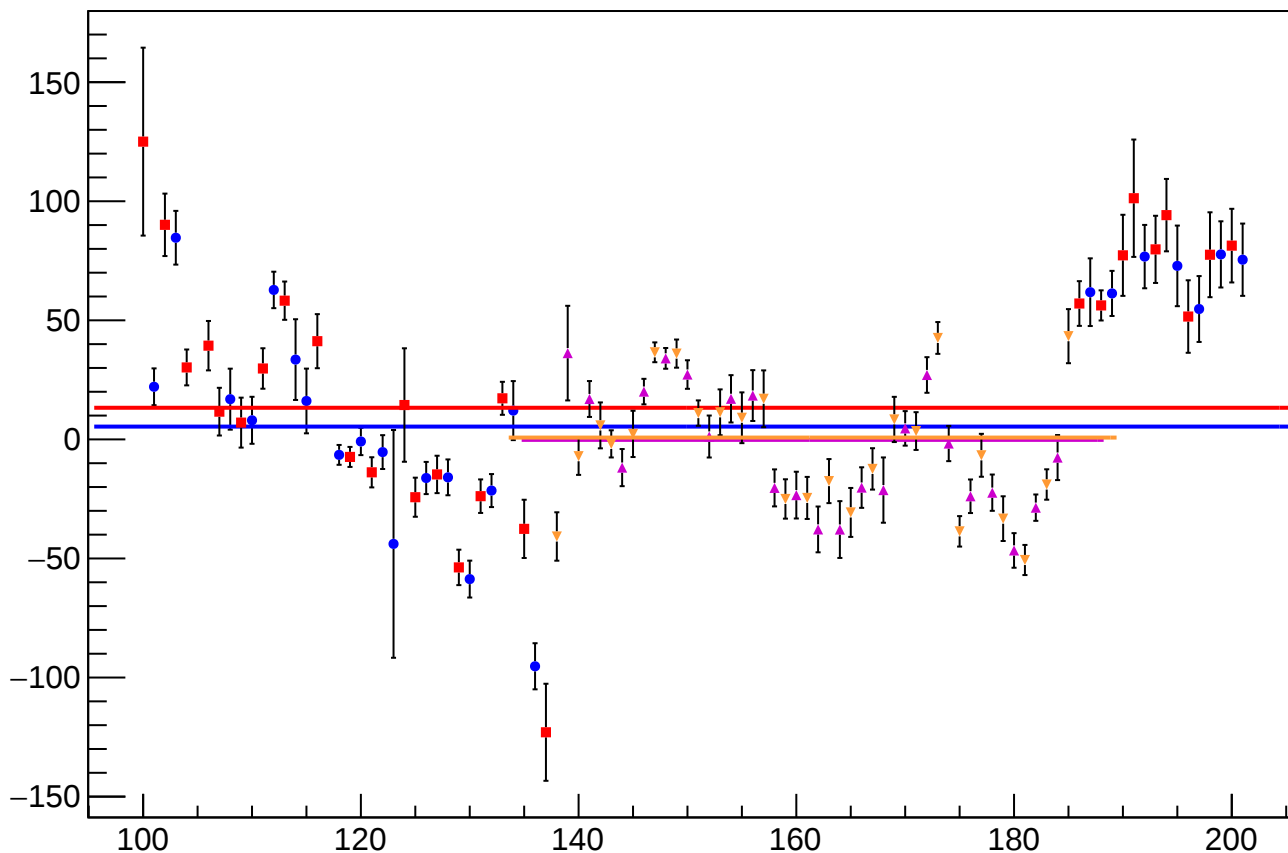
Right: -456.440 $\pm$ 2.577 χ^2 /NDF: 3263.6/15

In: -415.469 $\pm$ 1.818 χ^2 /NDF:4767.4/29

Out: -418.838 $\pm$ 1.669 χ^2 /NDF:8712.6/33

All: -417.297 $\pm$ 1.230 χ^2 /NDF: 13481.9/63

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.377 ± 1.798 $\chi^2/\text{NDF}: 493.6/23$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 13.282 ± 1.729 $\chi^2/\text{NDF}: 526.8/27$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

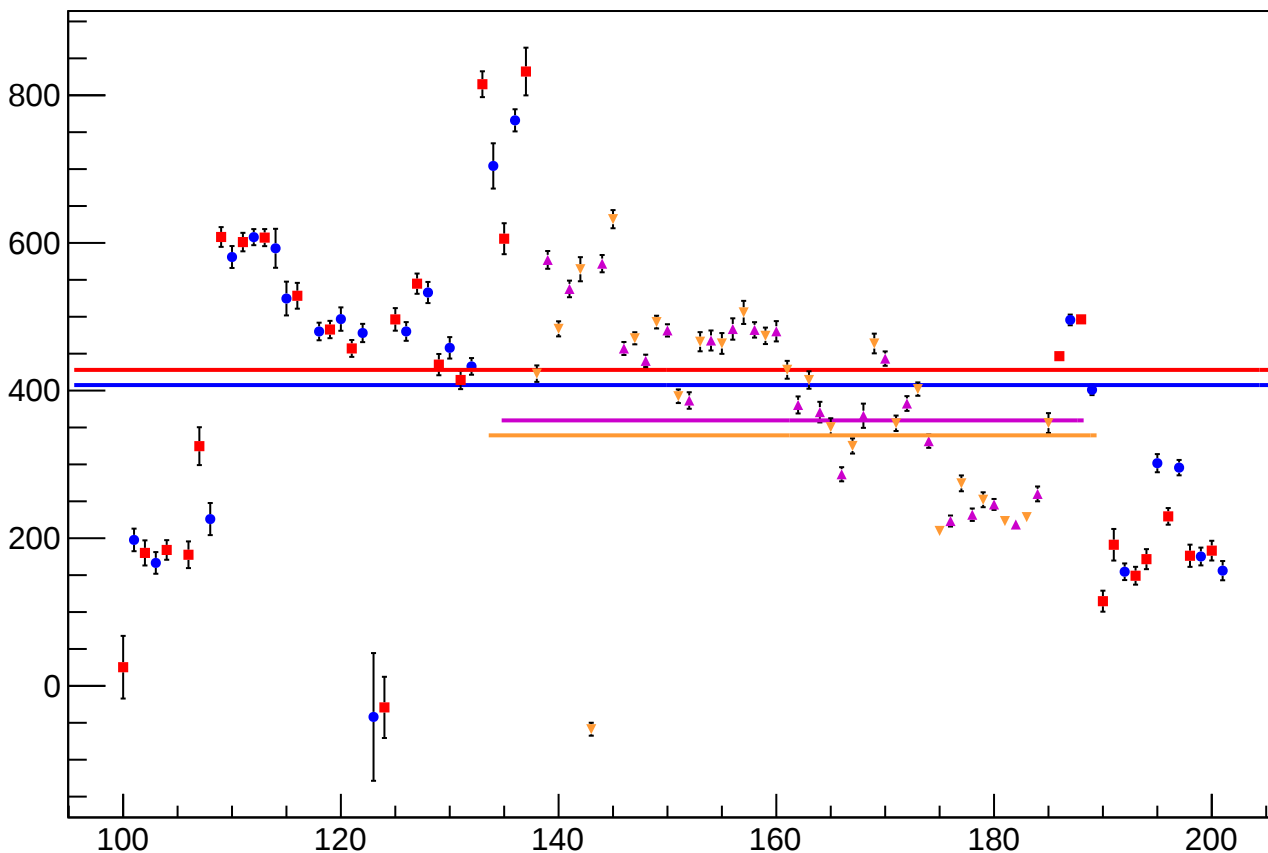
Right: 9.484 ± 1.246 $\chi^2/\text{NDF}: 1030.4/51$

In: 2.221 ± 1.185 $\chi^2/\text{NDF}: 759.9/46$

Out: 6.153 ± 1.134 $\chi^2/\text{NDF}: 906.7/52$

All: 4.273 ± 0.819 $\chi^2/\text{NDF}: 1672.3/99$

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 407.458 $\pm$ 2.590 χ^2 /NDF: 3584.0/23

Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF:5502.5/24

Right Out: 428.014 $\pm$ 2.126 χ^2 /NDF: 5246.6/27

Left In: 359.609 $\pm$ 2.003 χ^2 /NDF:3398.5/22

Left: 349.278 $\pm$ 1.402 χ^2 /NDF: 8953.2/47

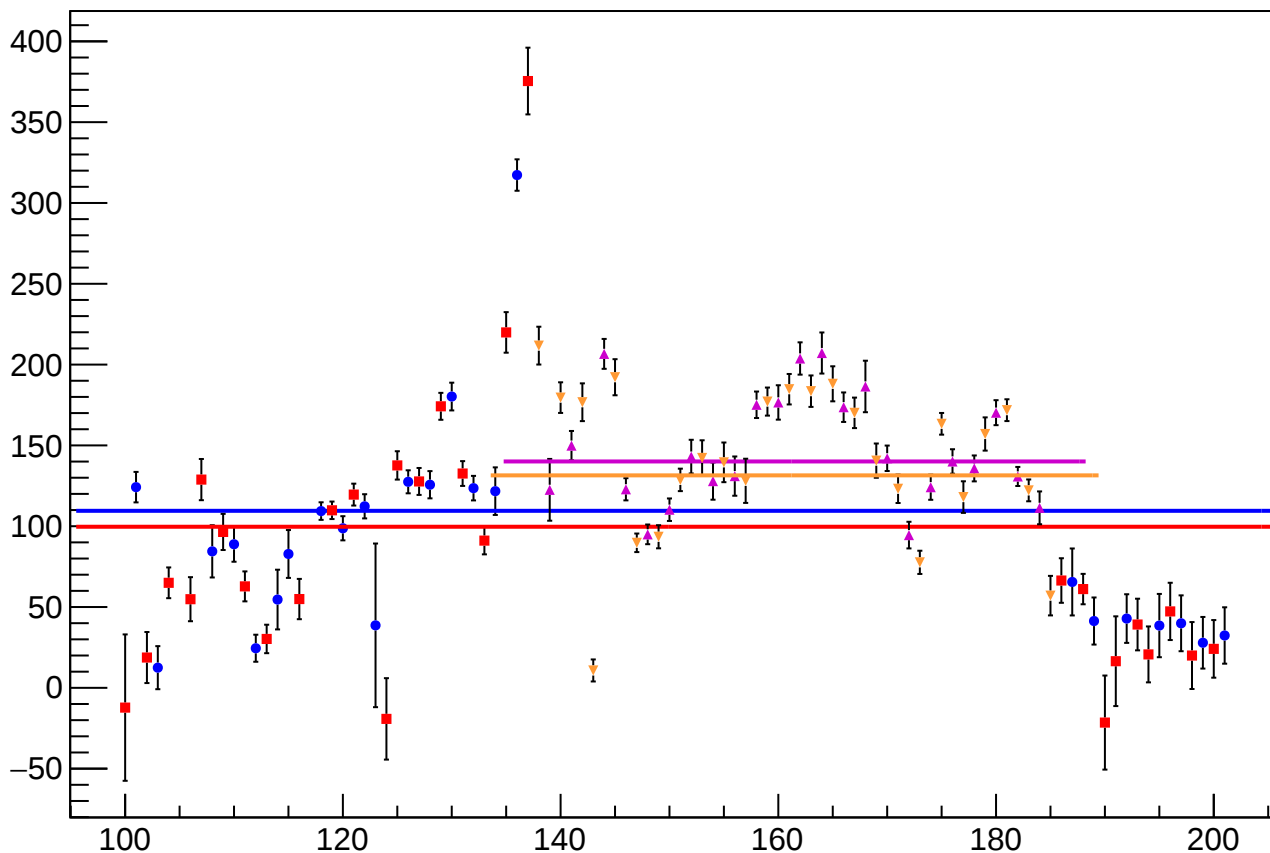
Right: 419.741 $\pm$ 1.643 χ^2 /NDF: 8868.2/51

In: 377.510 $\pm$ 1.584 χ^2 /NDF:7196.1/46

Out: 380.152 $\pm$ 1.442 χ^2 /NDF:11688.1/52

All: 378.955 $\pm$ 1.066 χ^2 /NDF: 18885.6/99

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 109.528 ± 2.105 $\chi^2/\text{NDF}: 840.7/23$

Left Out: 131.464 ± 1.728 $\chi^2/\text{NDF}: 809.3/24$

Right Out: 99.674 ± 2.042 $\chi^2/\text{NDF}: 712.4/27$

Left In: 140.069 ± 1.795 $\chi^2/\text{NDF}: 316.5/22$

Left: 135.602 ± 1.245 $\chi^2/\text{NDF}: 1137.8/47$

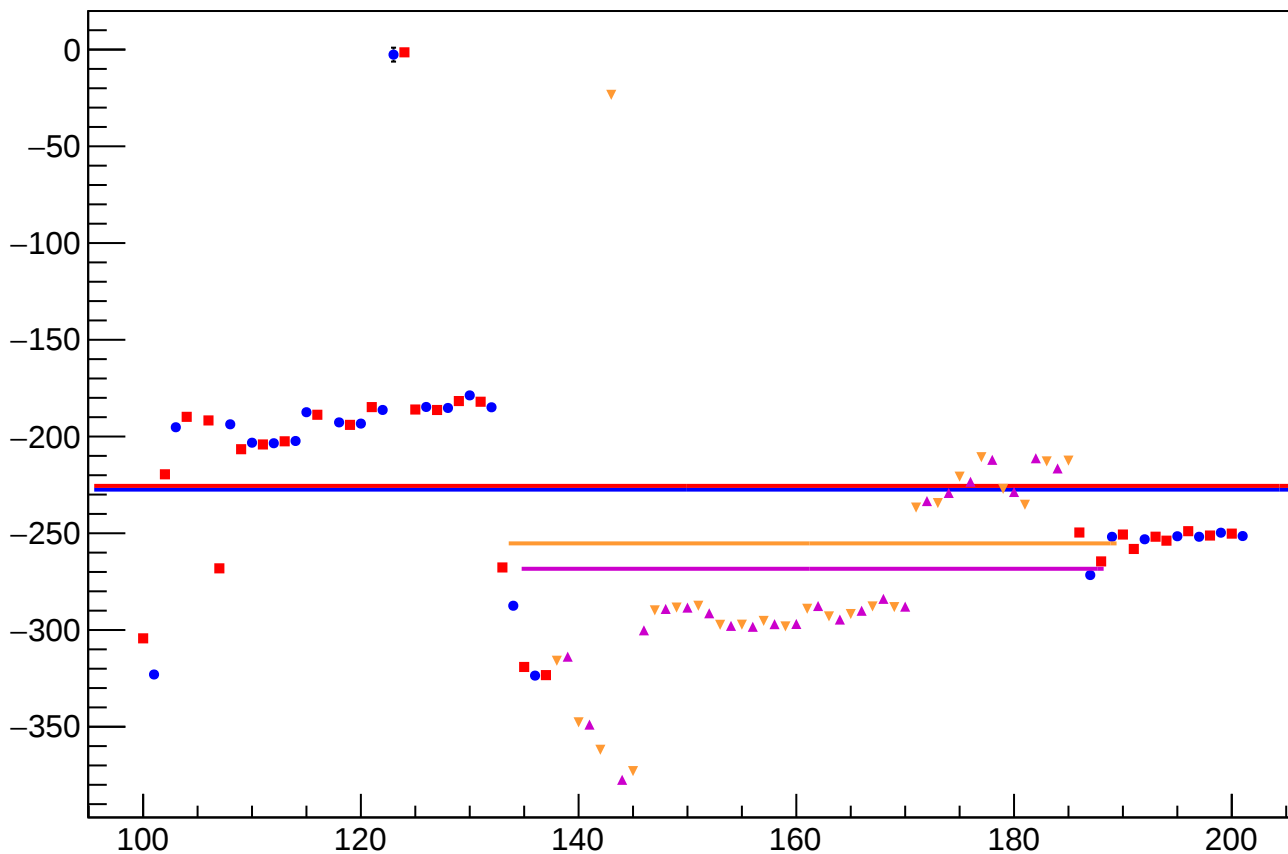
Right: 104.450 ± 1.466 $\chi^2/\text{NDF}: 1564.4/51$

In: 127.212 ± 1.366 $\chi^2/\text{NDF}: 1279.1/46$

Out: 118.201 ± 1.319 $\chi^2/\text{NDF}: 1663.0/52$

All: 122.549 ± 0.949 $\chi^2/\text{NDF}: 2964.7/99$

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -227.436+/-0.115 χ^2/NDF : 165893.6/23

Left Out: -255.232+/-0.082 χ^2/NDF : 728016.7/24

Right Out: -225.503+/-0.108 χ^2/NDF : 147089.2/27

Left In: -268.353+/-0.084 χ^2/NDF : 262479.3/22

Left: -261.661+/-0.059 χ^2/NDF : 1003051.2/47

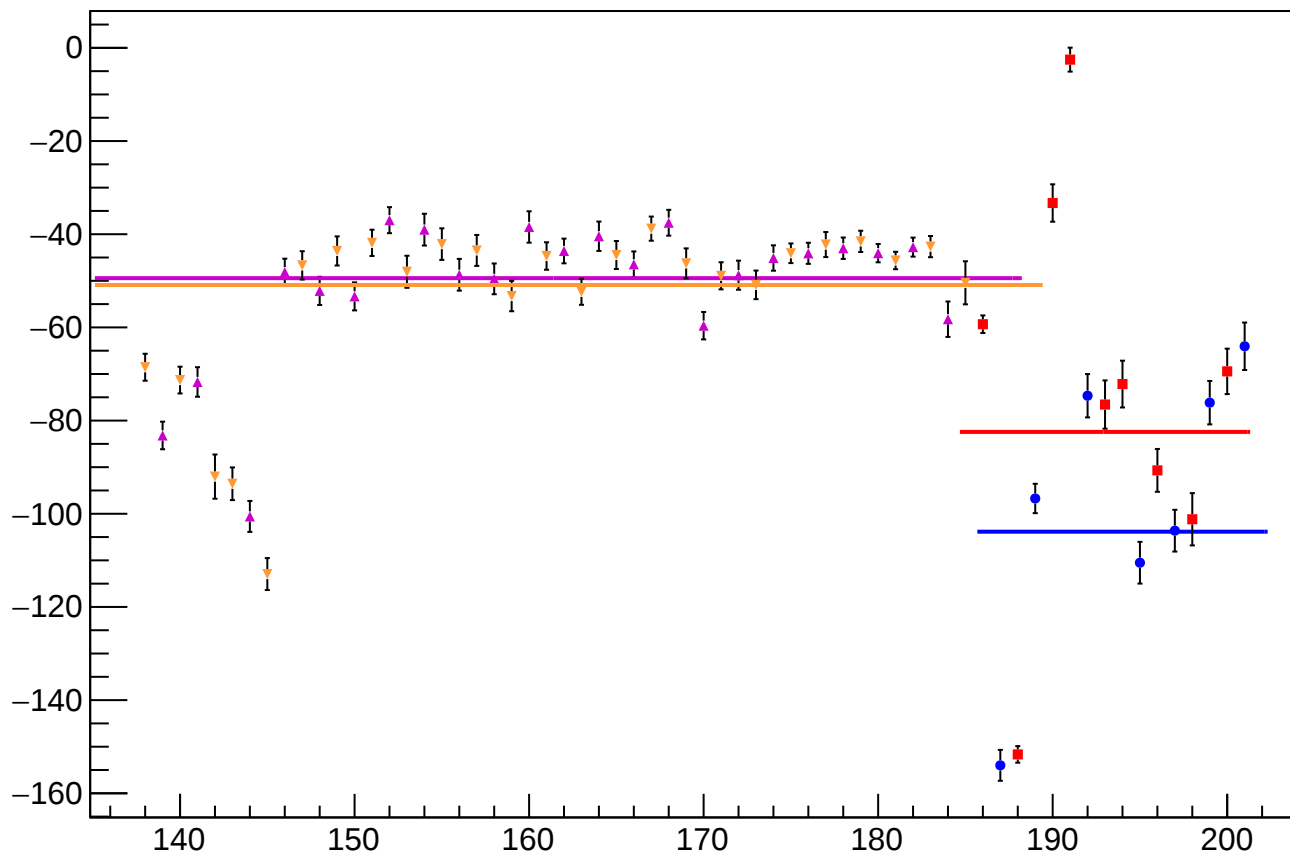
Right: -226.412+/-0.079 χ^2/NDF : 313132.4/51

In: -254.208+/-0.068 χ^2/NDF : 511138.8/46

Out: -244.409+/-0.065 χ^2/NDF : 923003.1/52

All: -249.140+/-0.047 χ^2/NDF : 1444995.0/99

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -103.848 ± 1.539 χ^2/NDF : 371.5/6

Left Out: -50.897 ± 0.573 χ^2/NDF : 761.1/24

Right Out: -82.430 ± 0.996 χ^2/NDF : 2806.5/8

Left In: -49.432 ± 0.584 χ^2/NDF : 543.4/22

Left: -50.179 ± 0.409 χ^2/NDF : 1307.8/47

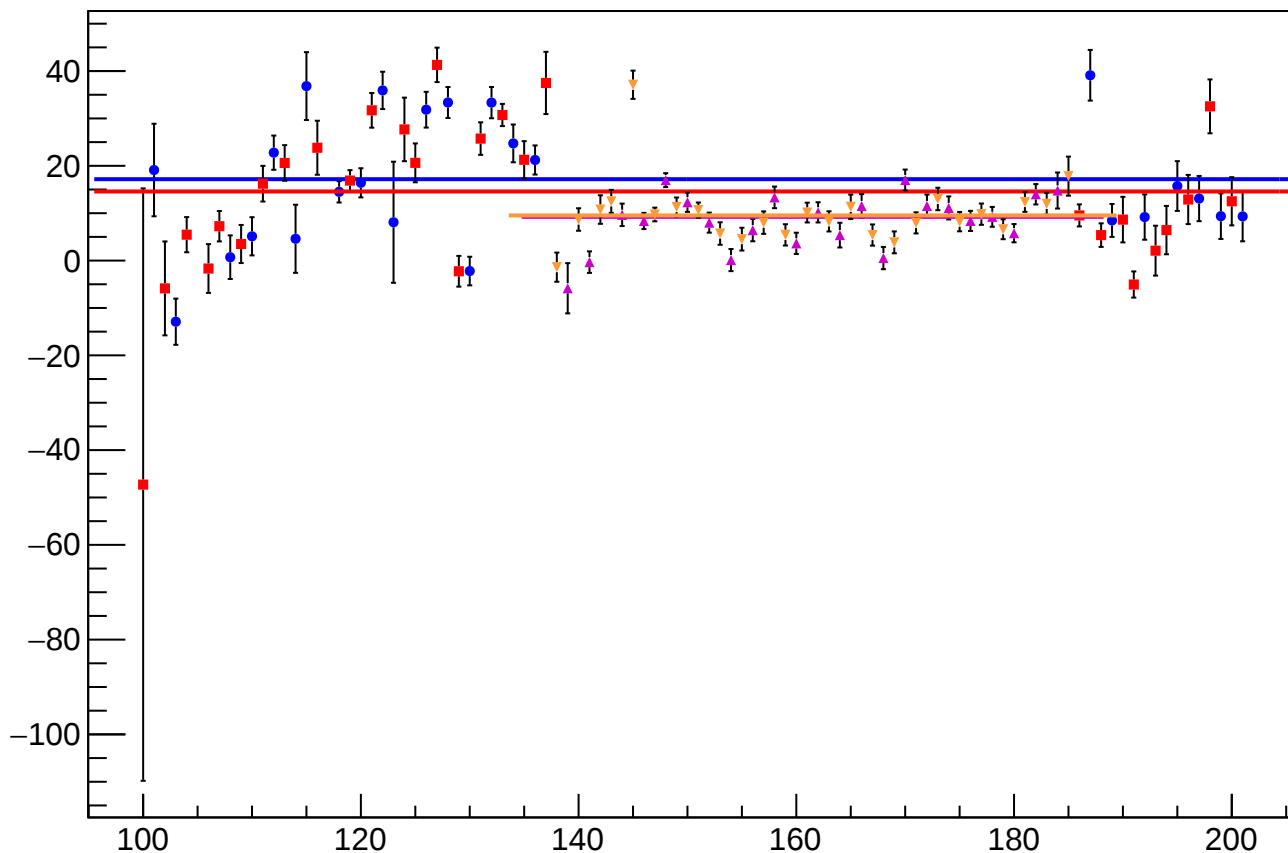
Right: -88.749 ± 0.836 χ^2/NDF : 3314.5/15

In: -56.277 ± 0.546 χ^2/NDF : 2007.4/29

Out: -58.735 ± 0.497 χ^2/NDF : 4321.0/33

All: -57.622 ± 0.367 χ^2/NDF : 6339.5/63

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.180 ± 0.815 $\chi^2/\text{NDF}: 239.3/23$

Left Out: 9.530 ± 0.446 $\chi^2/\text{NDF}: 134.4/24$

Right Out: 14.587 ± 0.700 $\chi^2/\text{NDF}: 311.4/27$

Left In: 9.231 ± 0.462 $\chi^2/\text{NDF}: 124.0/22$

Left: 9.386 ± 0.321 $\chi^2/\text{NDF}: 258.5/47$

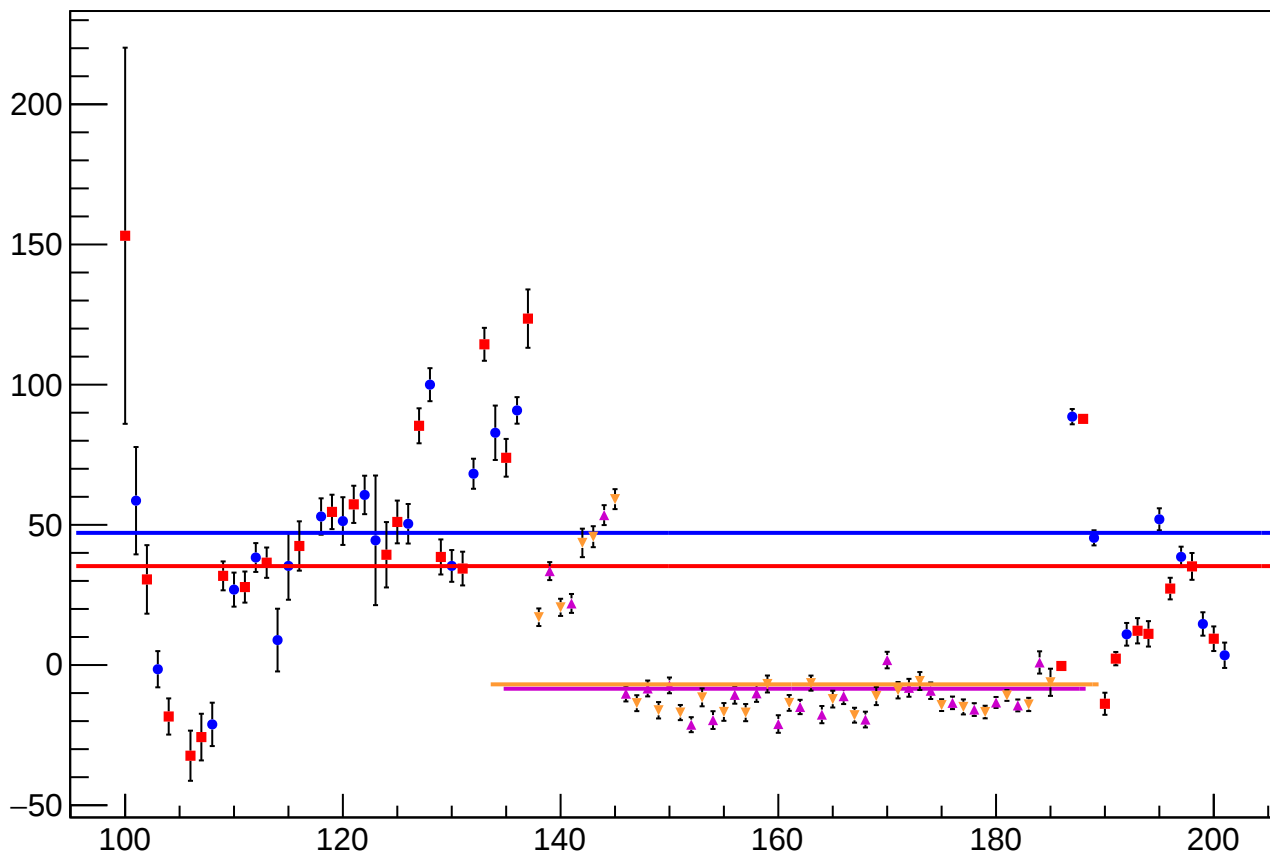
Right: 15.688 ± 0.531 $\chi^2/\text{NDF}: 556.5/51$

In: 11.163 ± 0.402 $\chi^2/\text{NDF}: 435.3/46$

Out: 10.991 ± 0.376 $\chi^2/\text{NDF}: 482.9/52$

All: 11.071 ± 0.275 $\chi^2/\text{NDF}: 918.3/99$

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 47.140 $\pm$ 1.034 χ^2 /NDF: 838.6/23

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF: 914.2/24

Right Out: 35.286 $\pm$ 0.743 χ^2 /NDF: 2897.3/27

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

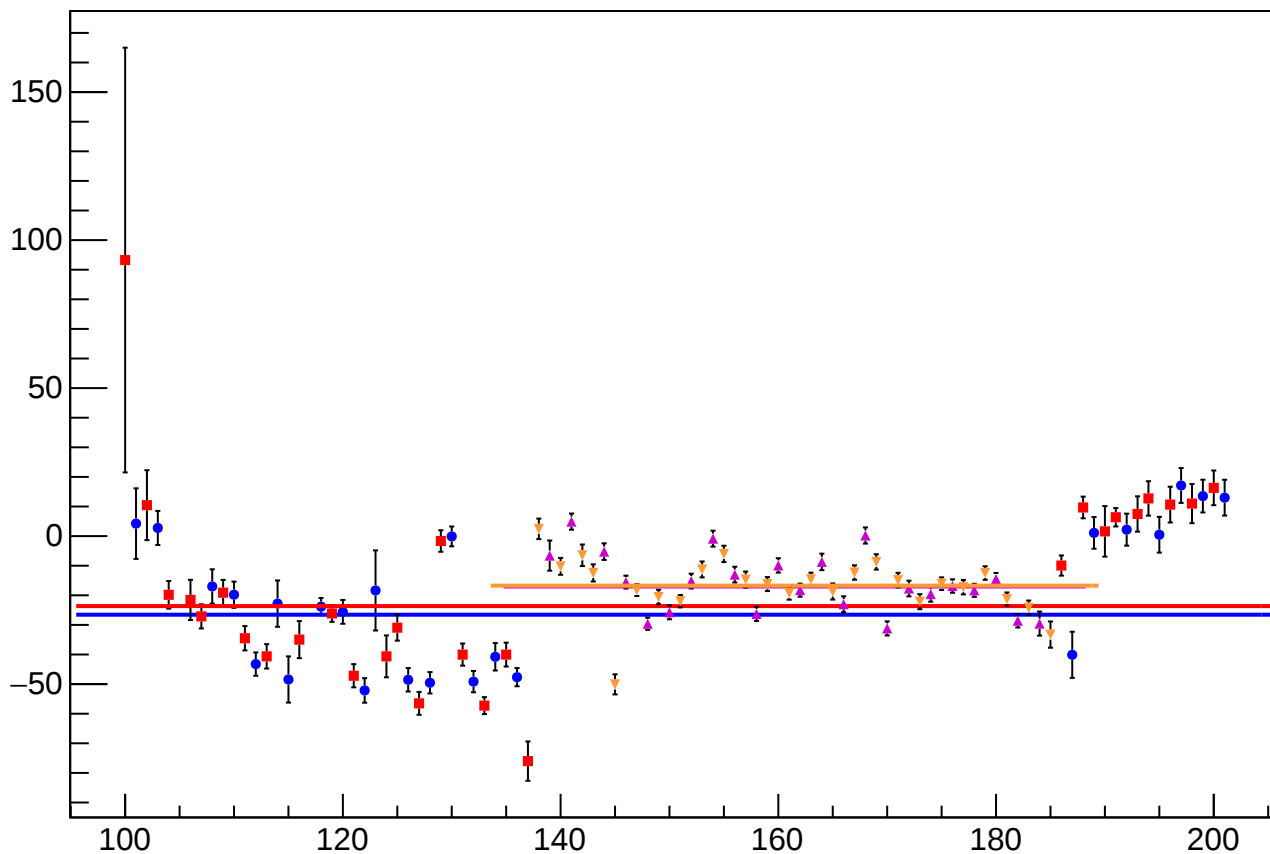
Right: 39.318 $\pm$ 0.603 χ^2 /NDF: 3822.6/51

In: 4.842 $\pm$ 0.506 χ^2 /NDF: 3725.6/46

Out: 8.781 $\pm$ 0.453 χ^2 /NDF: 5838.5/52

All: 7.029 $\pm$ 0.337 χ^2 /NDF: 9597.8/99

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -26.555 ± 0.946 χ^2/NDF : 560.3/23

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -23.638 ± 0.837 χ^2/NDF : 803.1/27

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

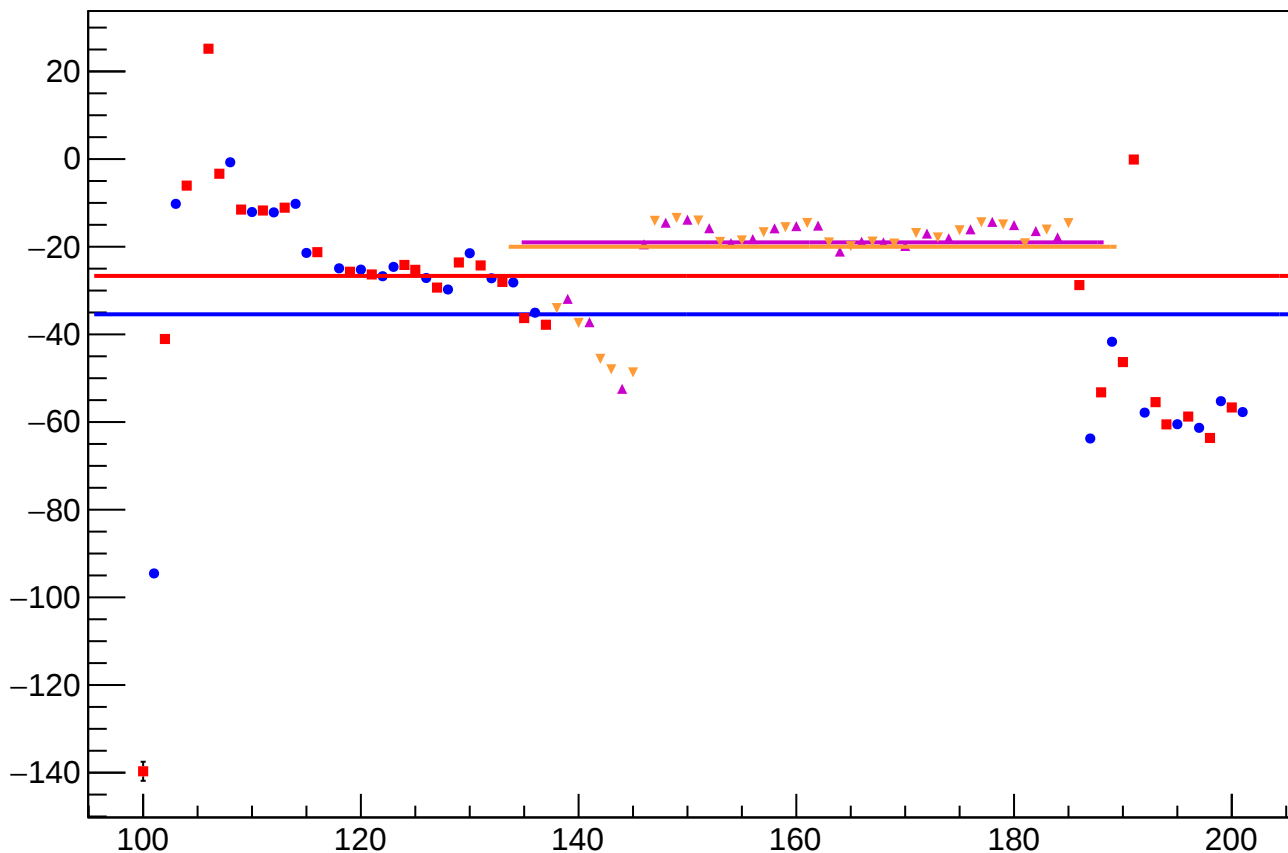
Right: -24.918 ± 0.627 χ^2/NDF : 1368.8/51

In: -19.246 ± 0.457 χ^2/NDF : 965.7/46

Out: -18.586 ± 0.433 χ^2/NDF : 1076.2/52

All: -18.899 ± 0.314 χ^2/NDF : 2043.1/99

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -35.418 $\pm$ 0.046 χ^2 /NDF: 196501.5/23

Left Out: -20.006 $\pm$ 0.023 χ^2 /NDF:145623.8/24

Right Out: -26.659 $\pm$ 0.039 χ^2 /NDF: 387613.7/27

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

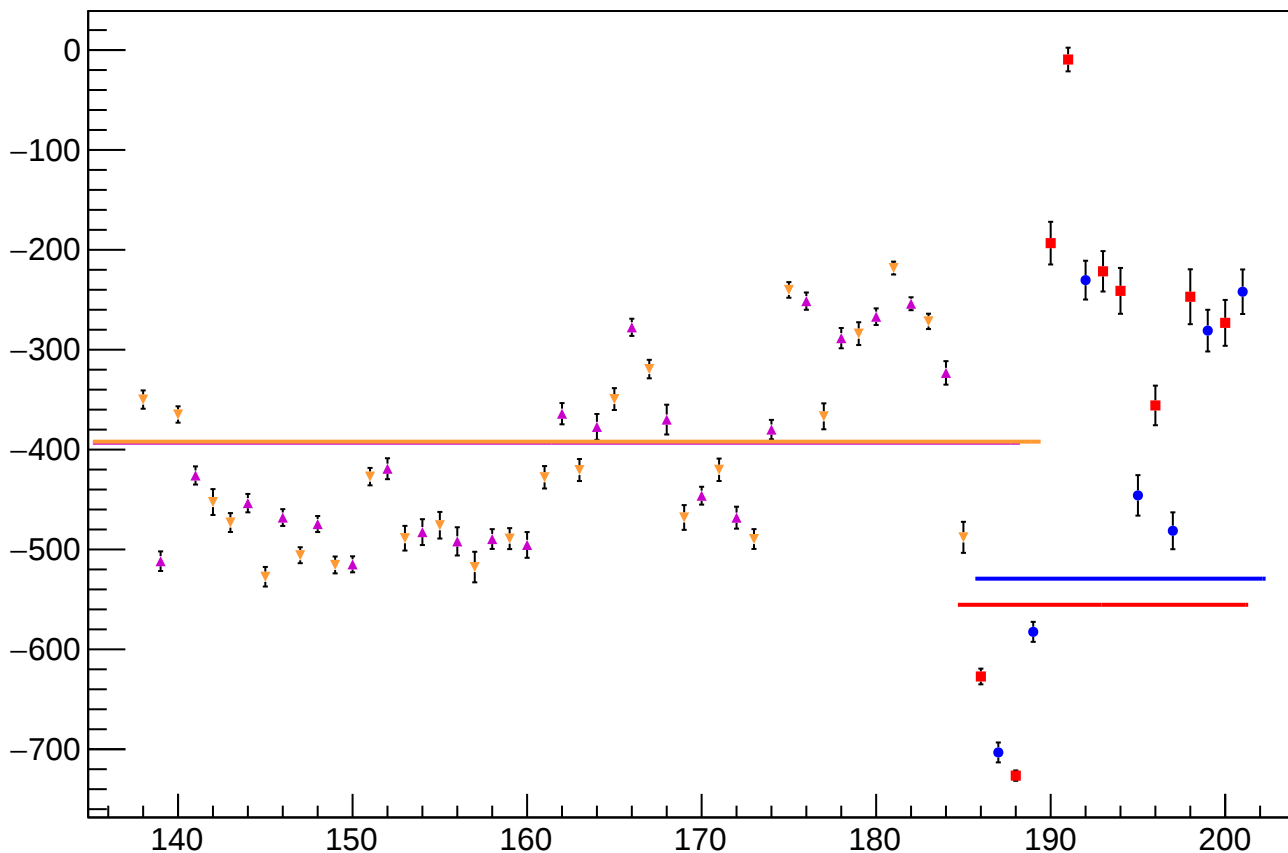
Right: -30.335 $\pm$ 0.030 χ^2 /NDF: 605303.4/51

In: -22.463 $\pm$ 0.021 χ^2 /NDF:388552.3/46

Out: -21.757 $\pm$ 0.020 χ^2 /NDF:554698.7/52

All: -22.092 $\pm$ 0.014 χ^2 /NDF: 943842.8/99

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -529.237 $\pm$ 5.556 χ^2 /NDF: 901.4/6

Left Out: -392.054 $\pm$ 1.967 χ^2 /NDF:2717.2/24

Right Out: -555.389 $\pm$ 3.704 χ^2 /NDF: 4419.5/8

Left In: -393.113 $\pm$ 2.006 χ^2 /NDF:2253.3/22

Left: -392.573 $\pm$ 1.404 χ^2 /NDF: 4970.6/47

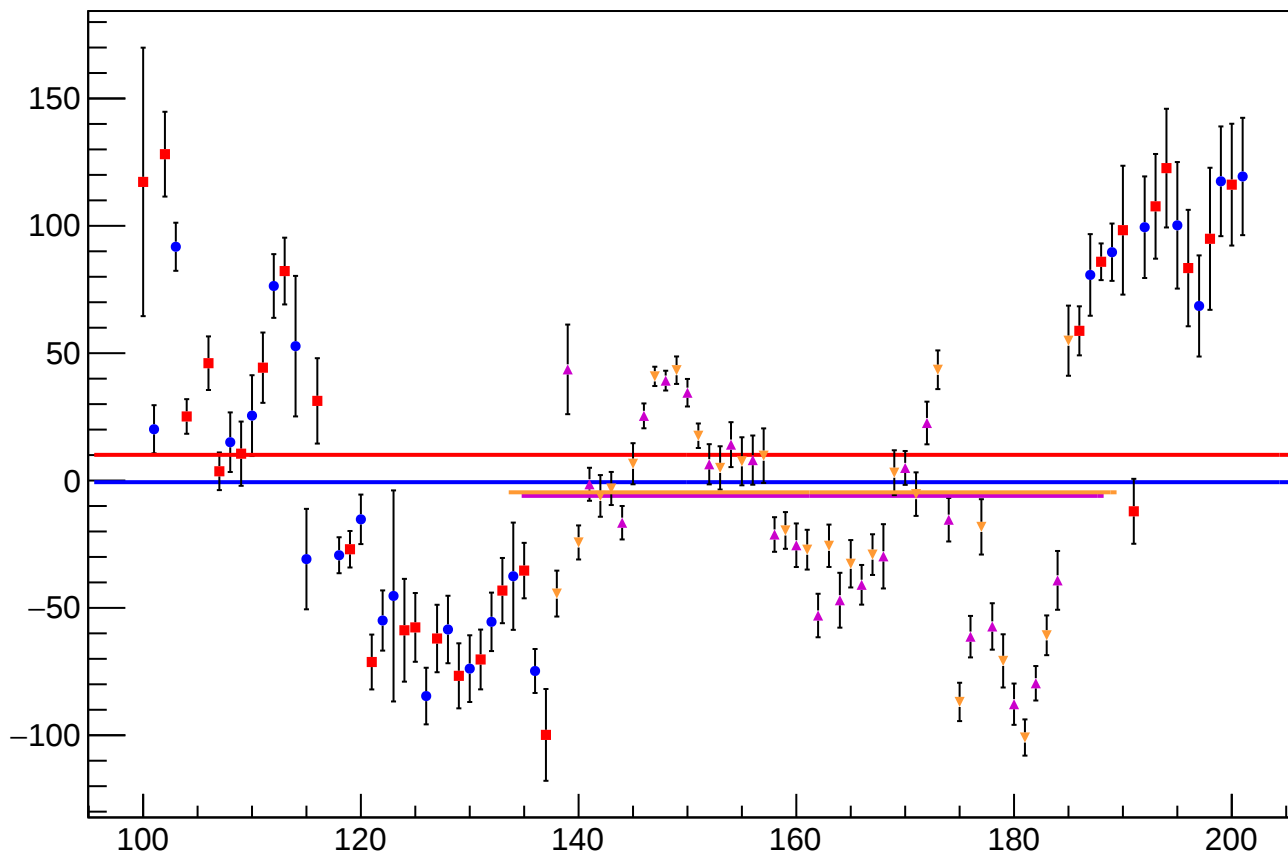
Right: -547.342 $\pm$ 3.082 χ^2 /NDF: 5336.1/15

In: -408.805 $\pm$ 1.886 χ^2 /NDF:3685.7/29

Out: -427.968 $\pm$ 1.737 χ^2 /NDF:8653.4/33

All: -419.176 $\pm$ 1.278 χ^2 /NDF: 12395.0/63

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.642 ± 2.601 χ^2/NDF : 598.5/23

Left Out: -4.624 ± 1.462 χ^2/NDF : 772.9/24

Right Out: 10.084 ± 2.273 χ^2/NDF : 661.8/27

Left In: -6.019 ± 1.516 χ^2/NDF : 654.1/22

Left: -5.296 ± 1.053 χ^2/NDF : 1427.4/47

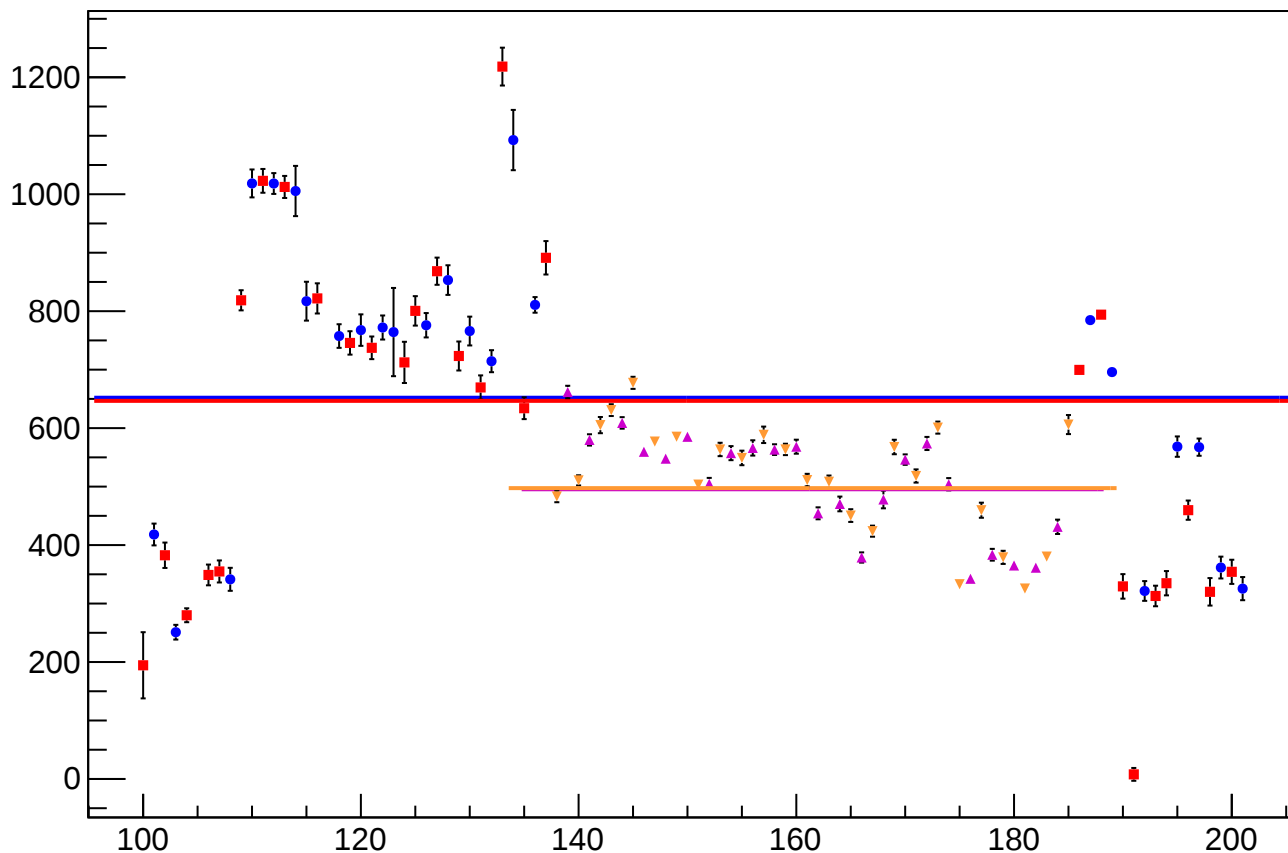
Right: 5.441 ± 1.712 χ^2/NDF : 1269.9/51

In: -4.655 ± 1.310 χ^2/NDF : 1255.8/46

Out: -0.318 ± 1.230 χ^2/NDF : 1464.3/52

All: -2.350 ± 0.897 χ^2/NDF : 2725.9/99

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 651.995 ± 3.428 $\chi^2/\text{NDF}: 3844.7/23$

Left Out: 497.381 ± 1.966 $\chi^2/\text{NDF}: 2614.6/24$

Right Out: 646.652 ± 2.571 $\chi^2/\text{NDF}: 9169.4/27$

Left In: 495.454 ± 1.992 $\chi^2/\text{NDF}: 2253.8/22$

Left: 496.430 ± 1.399 $\chi^2/\text{NDF}: 4868.9/47$

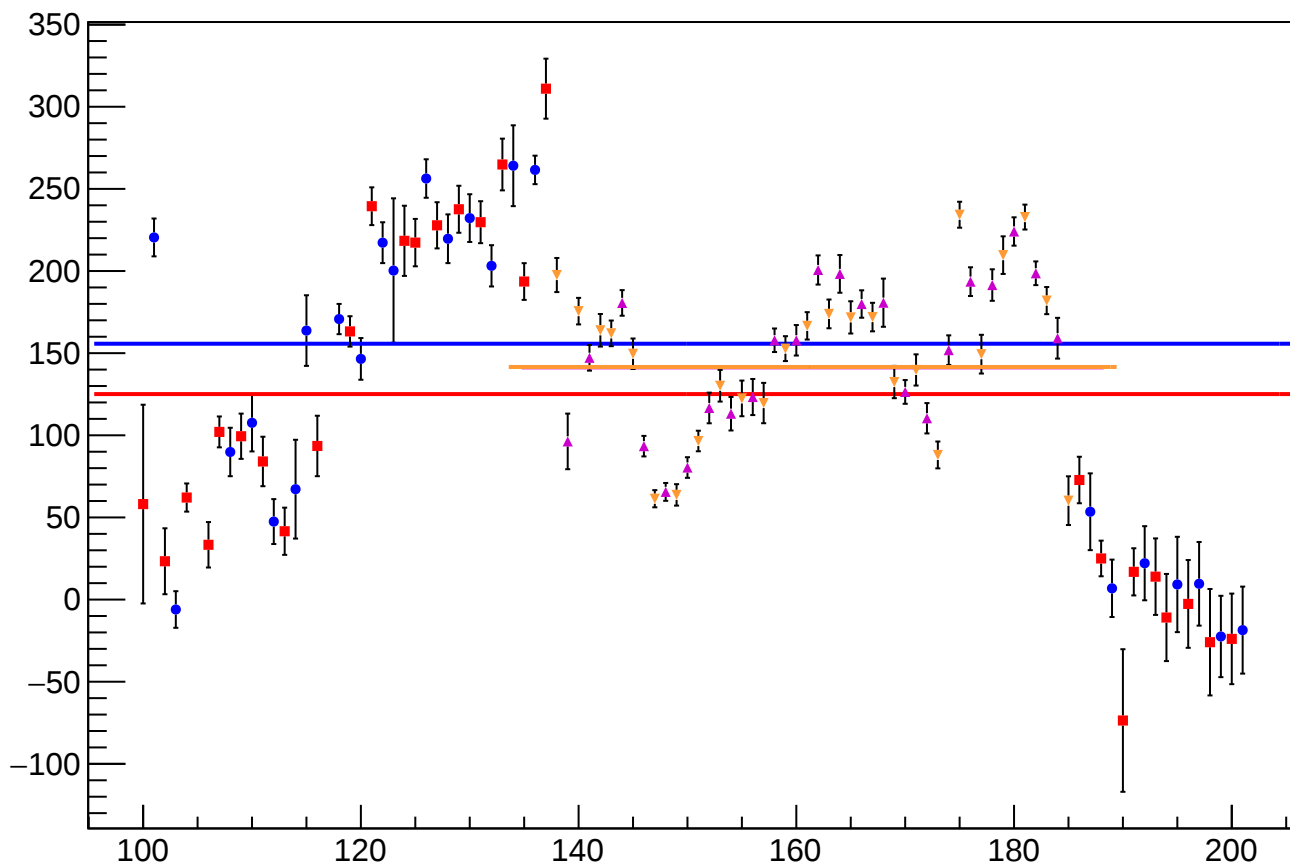
Right: 648.576 ± 2.057 $\chi^2/\text{NDF}: 13015.7/51$

In: 534.975 ± 1.722 $\chi^2/\text{NDF}: 7657.4/46$

Out: 552.456 ± 1.562 $\chi^2/\text{NDF}: 13911.2/52$

All: 544.570 ± 1.157 $\chi^2/\text{NDF}: 21625.1/99$

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 155.743 $\pm$ 3.046 χ^2 /NDF: 953.0/23

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF: 959.6/24

Right Out: 125.092 $\pm$ 2.736 χ^2 /NDF: 1056.3/27

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

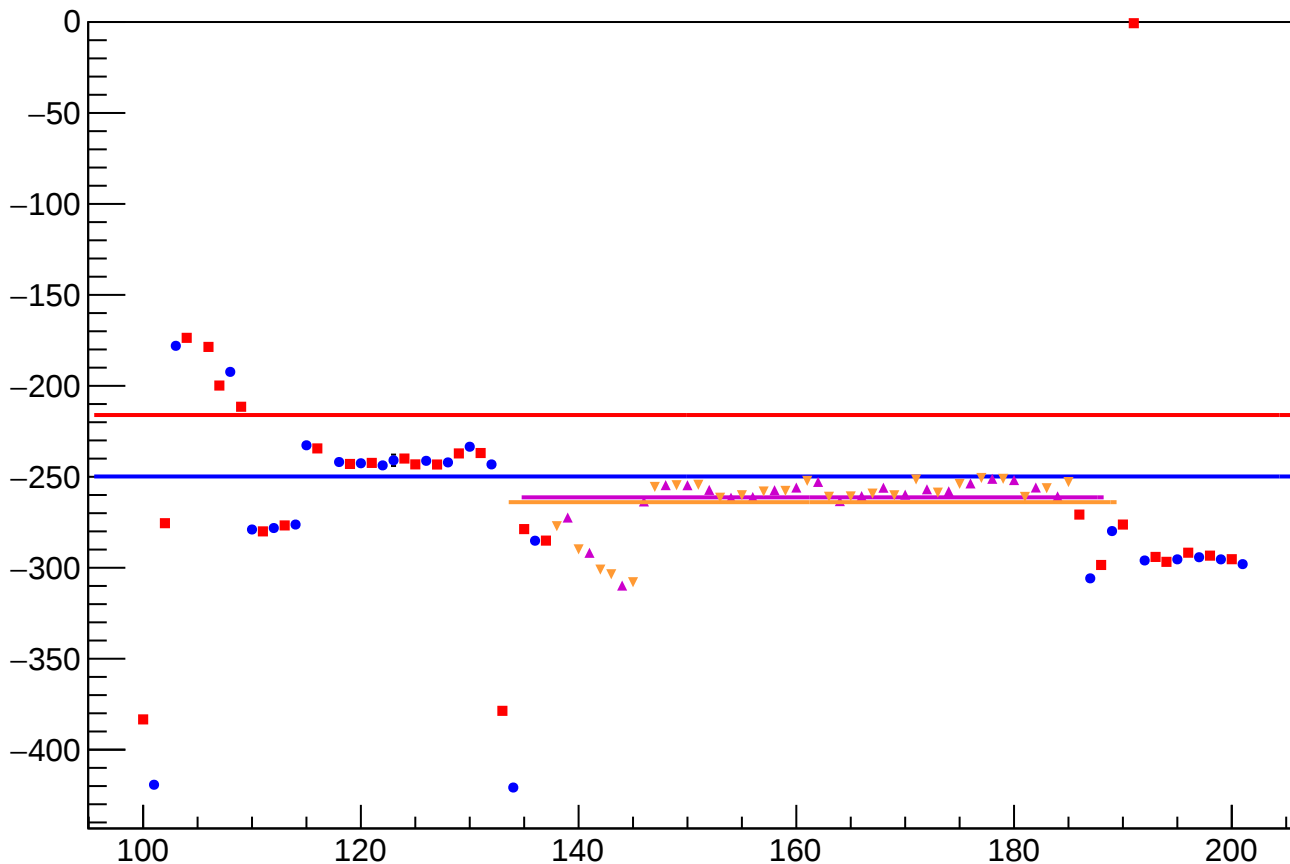
Right: 138.781 $\pm$ 2.035 χ^2 /NDF: 2065.4/51

In: 144.924 $\pm$ 1.516 χ^2 /NDF: 1711.0/46

Out: 137.000 $\pm$ 1.443 χ^2 /NDF: 2042.1/52

All: 140.766 $\pm$ 1.045 χ^2 /NDF: 3767.5/99

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -249.821+/-0.143 χ^2/NDF : 192802.9/23

Left Out: -263.943+/-0.081 χ^2/NDF : 39085.0/24

Right Out: -216.041+/-0.127 χ^2/NDF : 479518.2/27

Left In: -261.286+/-0.082 χ^2/NDF : 23348.4/22

Left: -262.627+/-0.058 χ^2/NDF : 62963.4/47

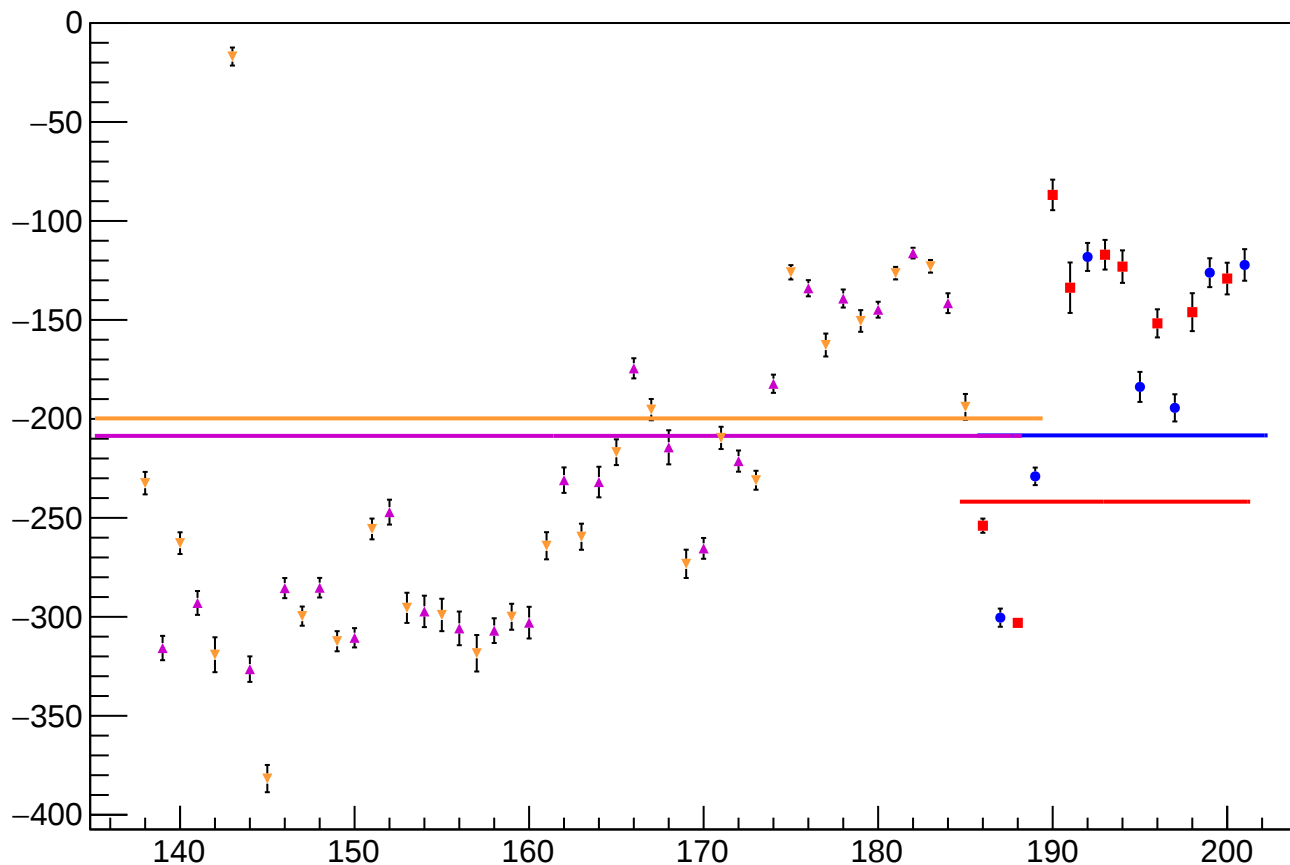
Right: -230.896+/-0.095 χ^2/NDF : 703578.2/51

In: -258.451+/-0.071 χ^2/NDF : 220989.0/46

Out: -249.985+/-0.068 χ^2/NDF : 619891.1/52

All: -254.053+/-0.049 χ^2/NDF : 848241.4/99

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -208.338 ± 2.286 χ^2/NDF : 844.4/6

Left Out: -199.741 ± 1.061 χ^2/NDF : 6361.5/24

Right Out: -241.812 ± 1.672 χ^2/NDF : 2099.4/8

Left In: -208.579 ± 1.082 χ^2/NDF : 4805.1/22

Left: -204.073 ± 0.758 χ^2/NDF : 11200.6/47

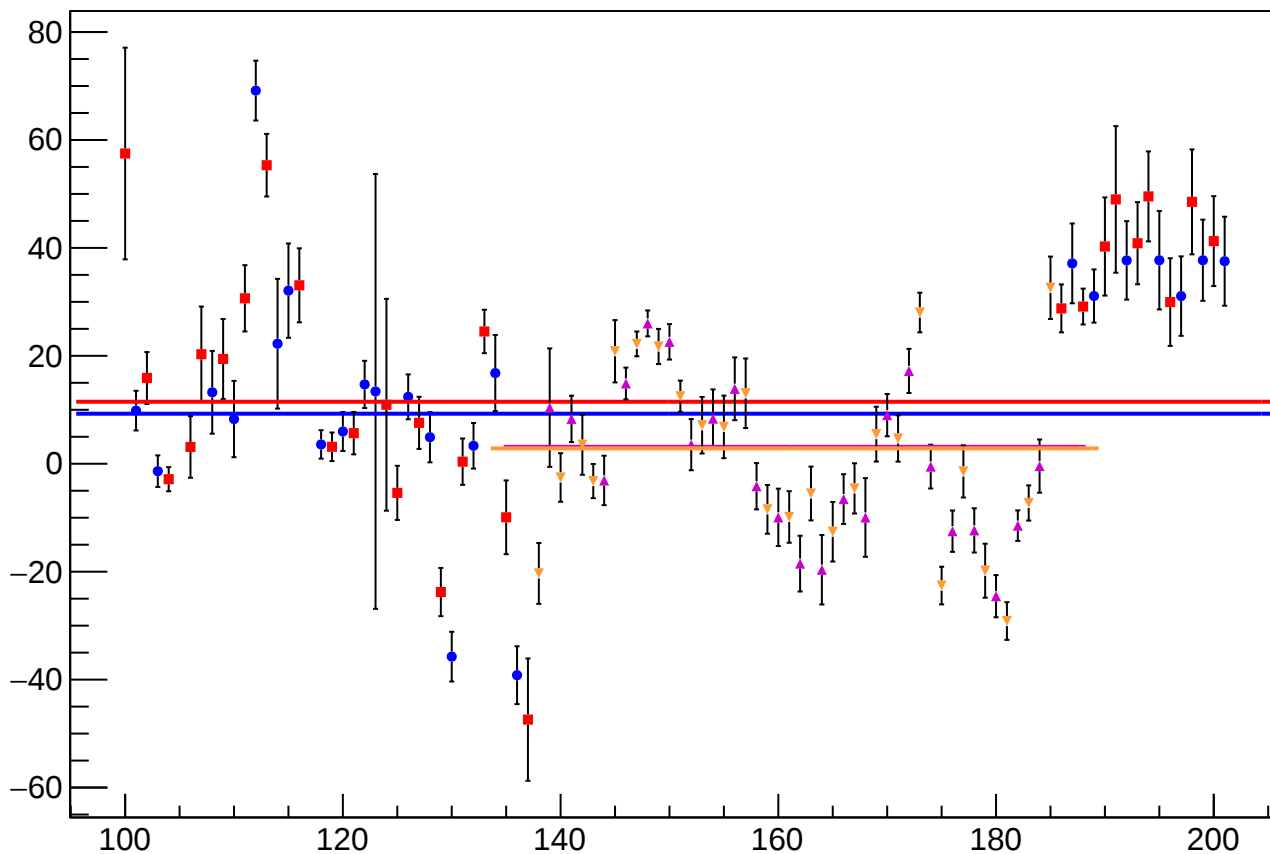
Right: -230.138 ± 1.350 χ^2/NDF : 3083.5/15

In: -208.535 ± 0.978 χ^2/NDF : 5649.5/29

Out: -211.816 ± 0.896 χ^2/NDF : 8912.0/33

All: -210.319 ± 0.661 χ^2/NDF : 14567.7/63

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.276 ± 1.022 $\chi^2/\text{NDF}: 420.4/23$

Left Out: 2.853 ± 0.820 $\chi^2/\text{NDF}: 419.8/24$

Right Out: 11.491 ± 0.952 $\chi^2/\text{NDF}: 398.2/27$

Left In: 3.136 ± 0.857 $\chi^2/\text{NDF}: 319.8/22$

Left: 2.988 ± 0.592 $\chi^2/\text{NDF}: 739.7/47$

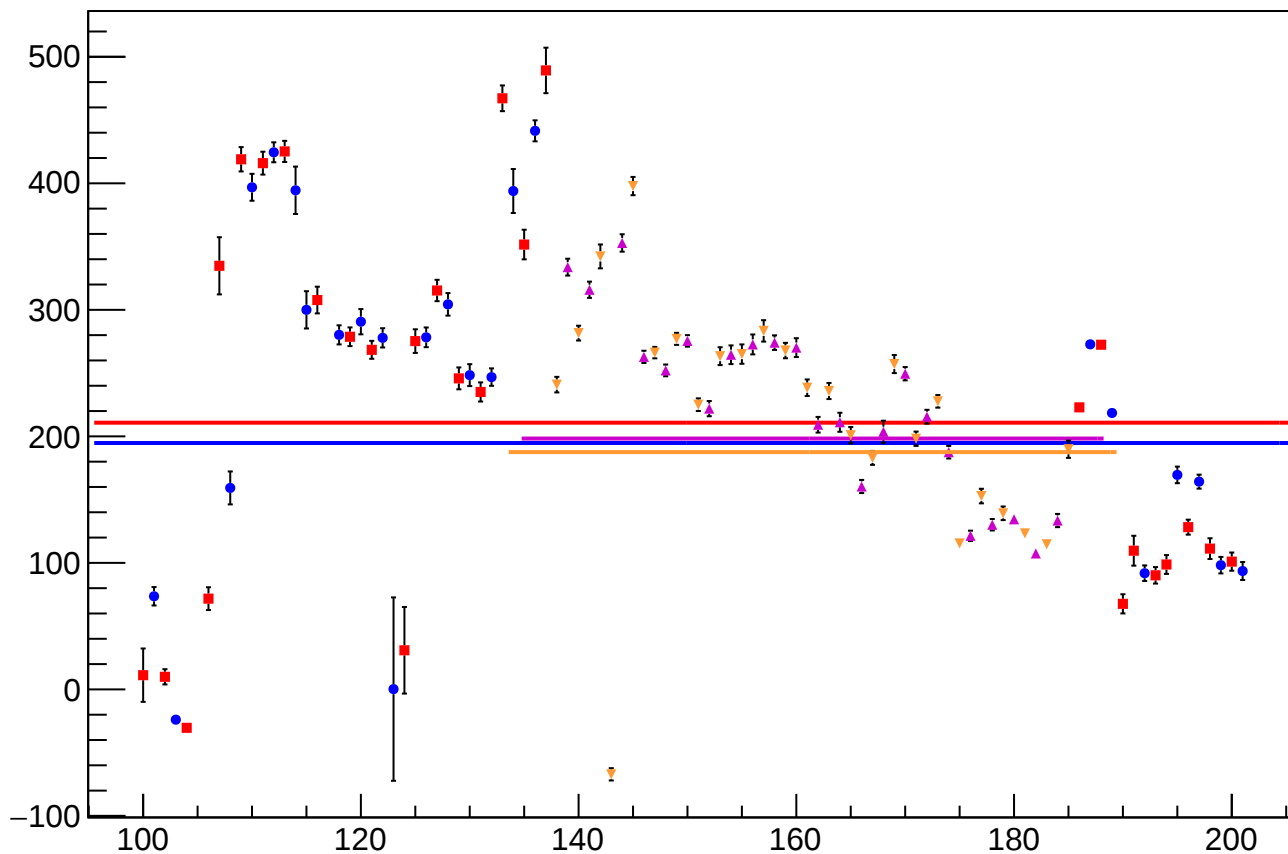
Right: 10.463 ± 0.697 $\chi^2/\text{NDF}: 821.1/51$

In: 5.669 ± 0.657 $\chi^2/\text{NDF}: 761.4/46$

Out: 6.533 ± 0.621 $\chi^2/\text{NDF}: 865.3/52$

All: 6.125 ± 0.451 $\chi^2/\text{NDF}: 1627.6/99$

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 194.757 $\pm$ 1.385 χ^2 /NDF: 7941.5/23

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 210.808 $\pm$ 1.122 χ^2 /NDF: 10948.6/27

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

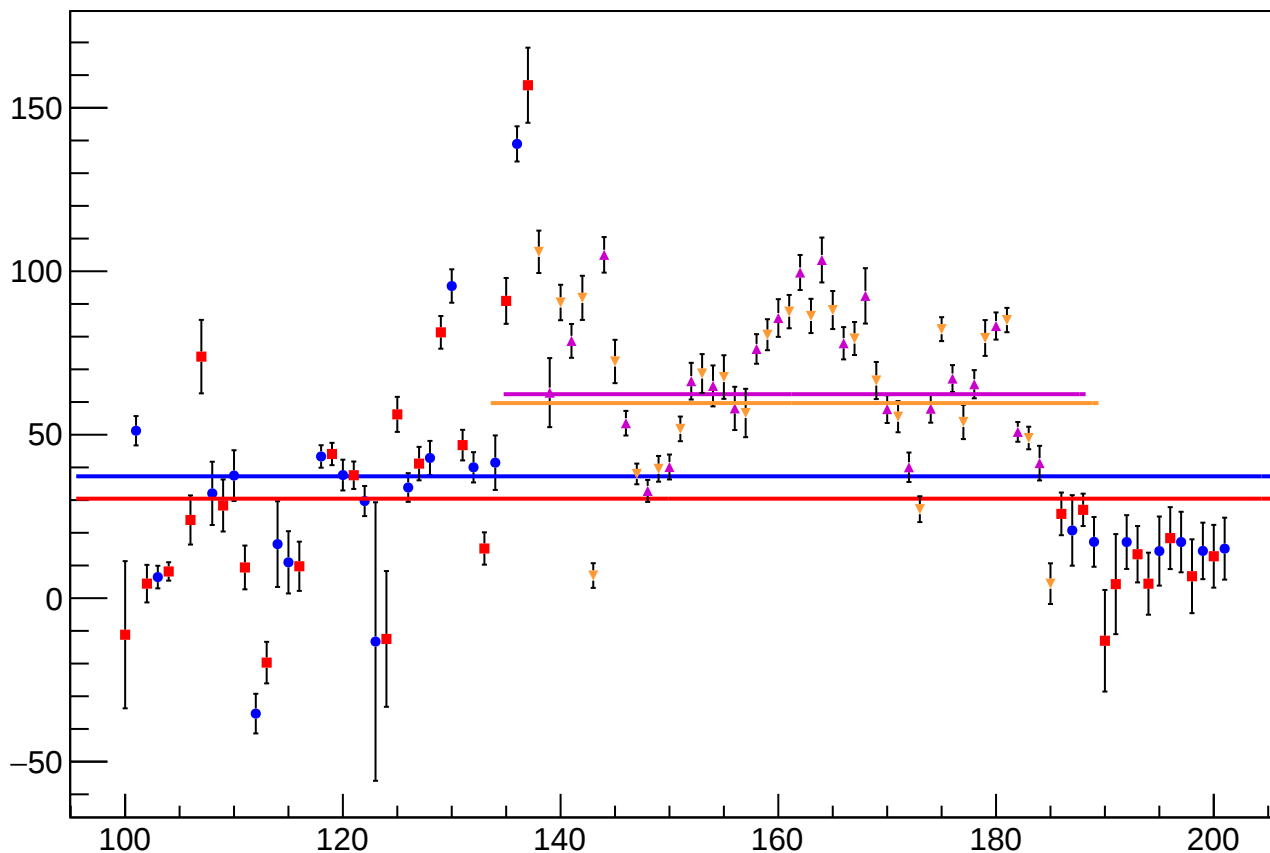
Right: 204.451 $\pm$ 0.872 χ^2 /NDF: 18971.2/51

In: 196.939 $\pm$ 0.853 χ^2 /NDF: 12461.3/46

Out: 198.592 $\pm$ 0.773 χ^2 /NDF: 18256.2/52

All: 197.846 $\pm$ 0.573 χ^2 /NDF: 30719.6/99

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 37.276 $\pm$ 1.203 χ^2/NDF : 776.2/23

Left Out: 59.682 $\pm$ 0.941 χ^2/NDF :757.6/24

Right Out: 30.437 $\pm$ -1.144 χ^2/NDF : 586.2/27

Left In: 62.400 $\pm$ -0.974 χ^2/NDF :406.3/22

Left: 60.993 $\pm$ -0.677 χ^2/NDF : 1167.9/47

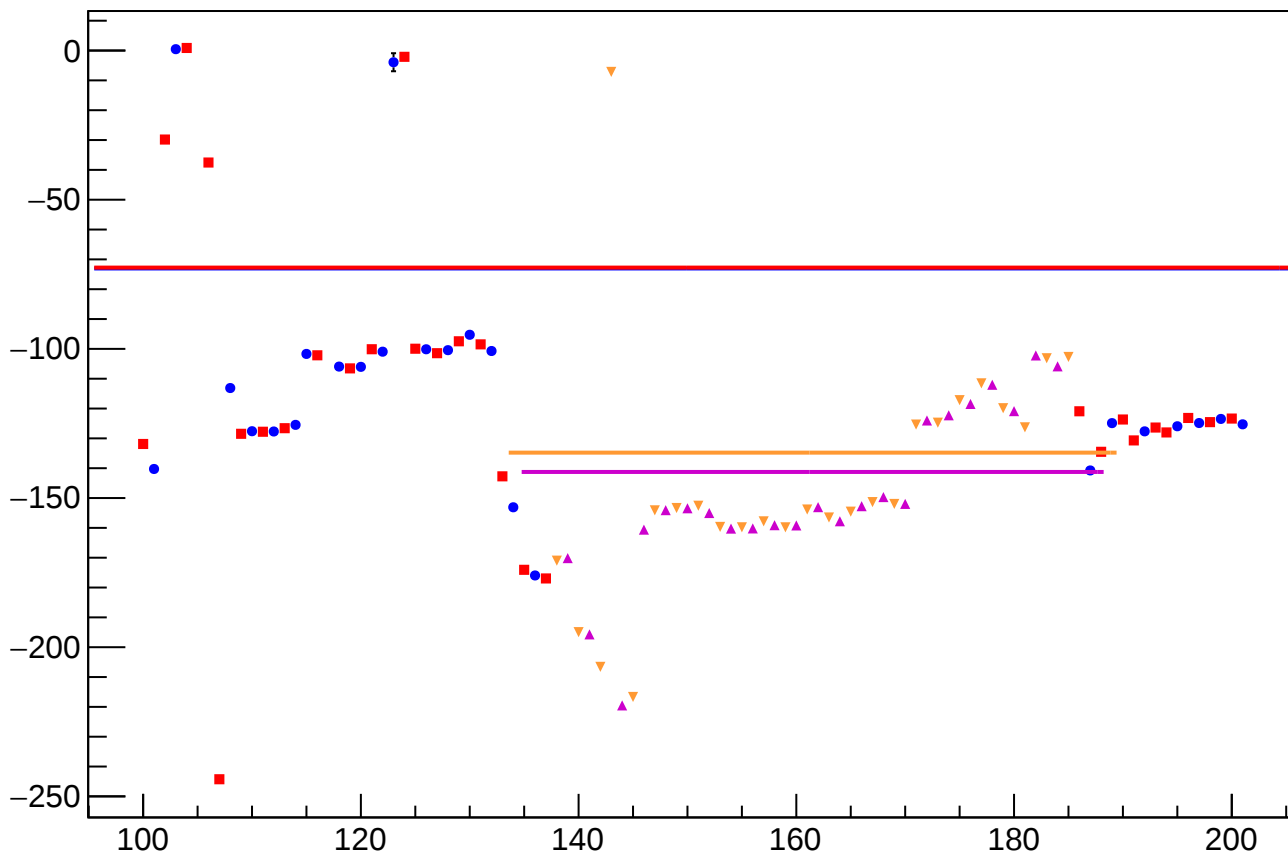
Right: 33.683 $\pm$ -0.829 χ^2/NDF : 1379.4/51

In: 52.451 $\pm$ -0.757 χ^2/NDF :1445.9/46

Out: 47.880 $\pm$ -0.727 χ^2/NDF :1733.8/52

All: 50.071 $\pm$ -0.524 χ^2/NDF : 3198.7/99

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -73.045 ± 0.054 $\chi^2/\text{NDF}: 1373766.1/23$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -72.756 ± 0.052 $\chi^2/\text{NDF}: 1358656.8/27$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

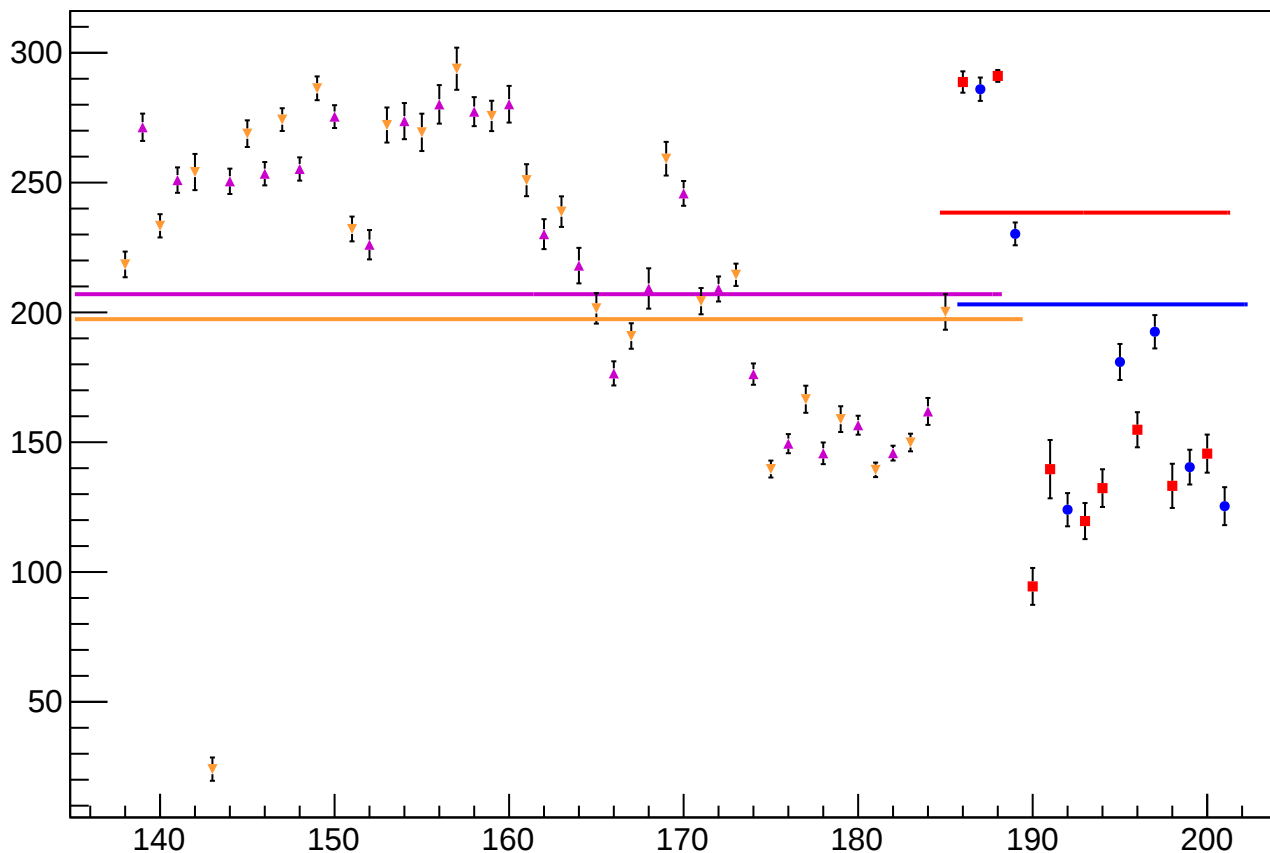
Right: -72.895 ± 0.038 $\chi^2/\text{NDF}: 2732437.5/51$

In: -113.365 ± 0.035 $\chi^2/\text{NDF}: 2648428.1/46$

Out: -108.685 ± 0.034 $\chi^2/\text{NDF}: 2980628.0/52$

All: -110.960 ± 0.024 $\chi^2/\text{NDF}: 5638337.4/99$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 203.094 $\pm$ 2.174 χ^2 /NDF: 744.0/6

Left Out: 197.408 $\pm$ 0.963 χ^2 /NDF:4384.2/24

Right Out: 238.435 $\pm$ 1.637 χ^2 /NDF: 2143.6/8

Left In: 207.014 $\pm$ 0.990 χ^2 /NDF:2611.5/22

Left: 202.077 $\pm$ 0.690 χ^2 /NDF: 7044.1/47

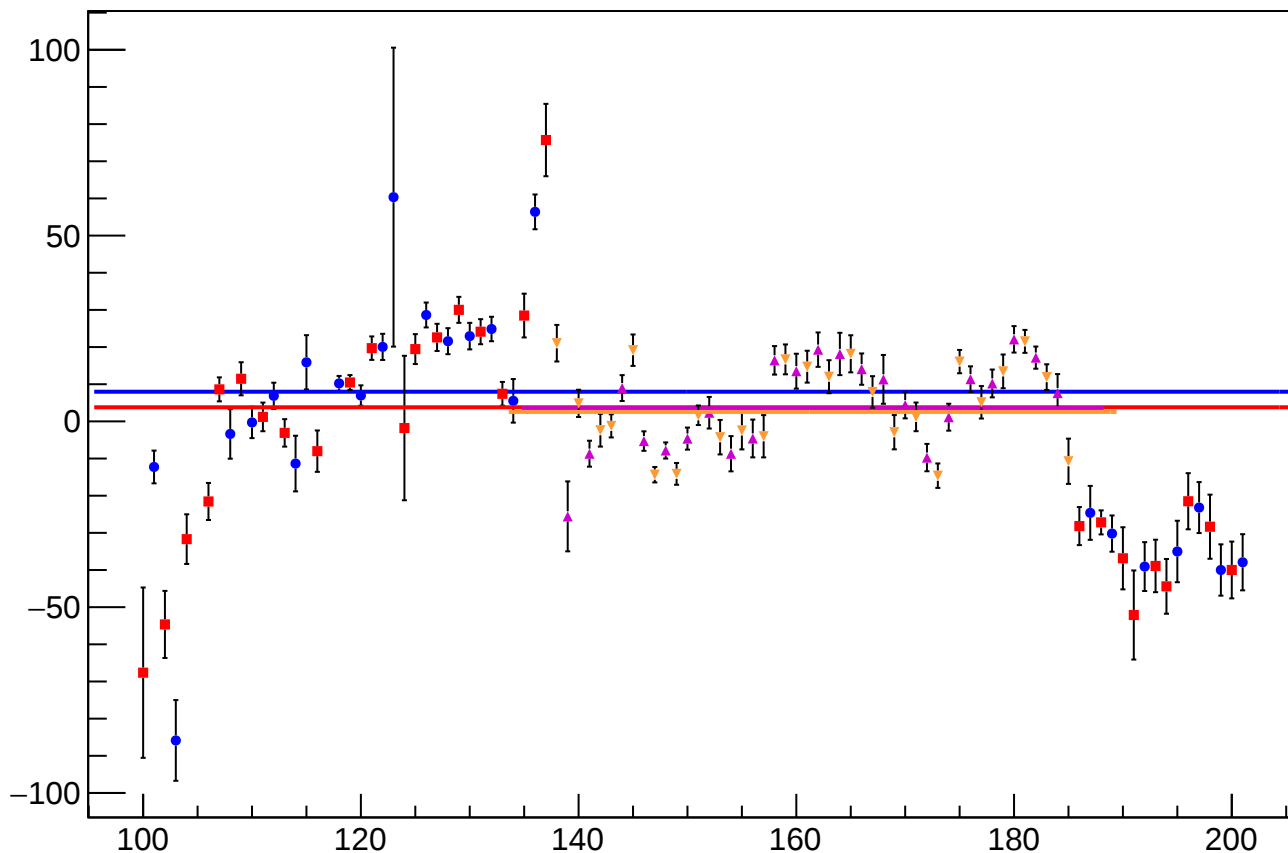
Right: 225.650 $\pm$ 1.307 χ^2 /NDF: 3056.3/15

In: 206.341 $\pm$ 0.901 χ^2 /NDF:3358.3/29

Out: 207.958 $\pm$ 0.830 χ^2 /NDF:6994.6/33

All: 207.216 $\pm$ 0.610 χ^2 /NDF: 10354.6/63

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.981 ± 0.879 $\chi^2/\text{NDF}: 595.0/23$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: 3.797 ± 0.834 $\chi^2/\text{NDF}: 677.0/27$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

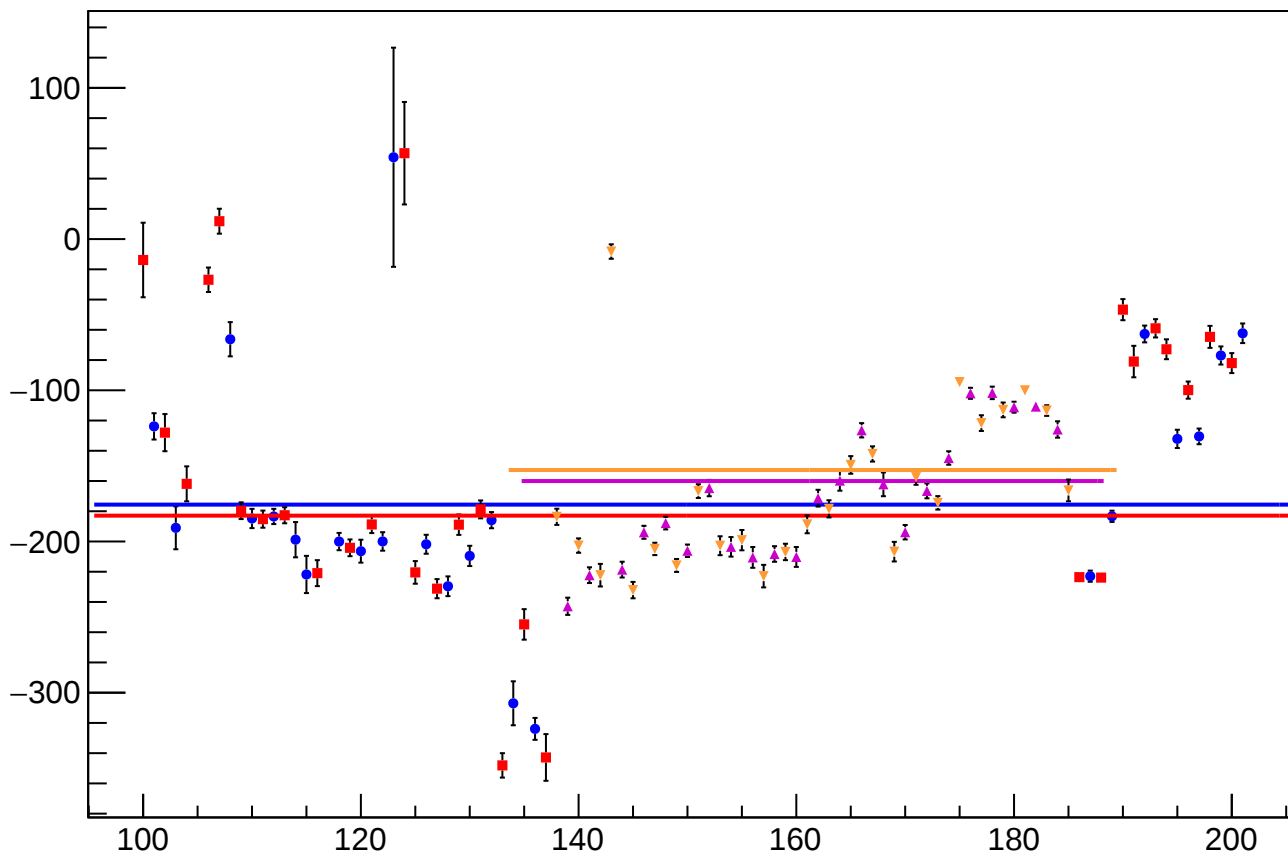
Right: 5.780 ± 0.605 $\chi^2/\text{NDF}: 1284.0/51$

In: 5.491 ± 0.581 $\chi^2/\text{NDF}: 801.2/46$

Out: 3.098 ± 0.554 $\chi^2/\text{NDF}: 953.7/52$

All: 4.238 ± 0.401 $\chi^2/\text{NDF}: 1763.8/99$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -175.619 $\pm$ 1.288 χ^2/NDF : 2112.5/23

Left Out: -152.738 $\pm$ 0.967 χ^2/NDF :3077.8/24

Right Out: -182.910 $\pm$ 1.062 χ^2/NDF : 4286.5/27

Left In: -160.021 $\pm$ 0.989 χ^2/NDF :2024.4/22

Left: -156.299 $\pm$ 0.691 χ^2/NDF : 5129.9/47

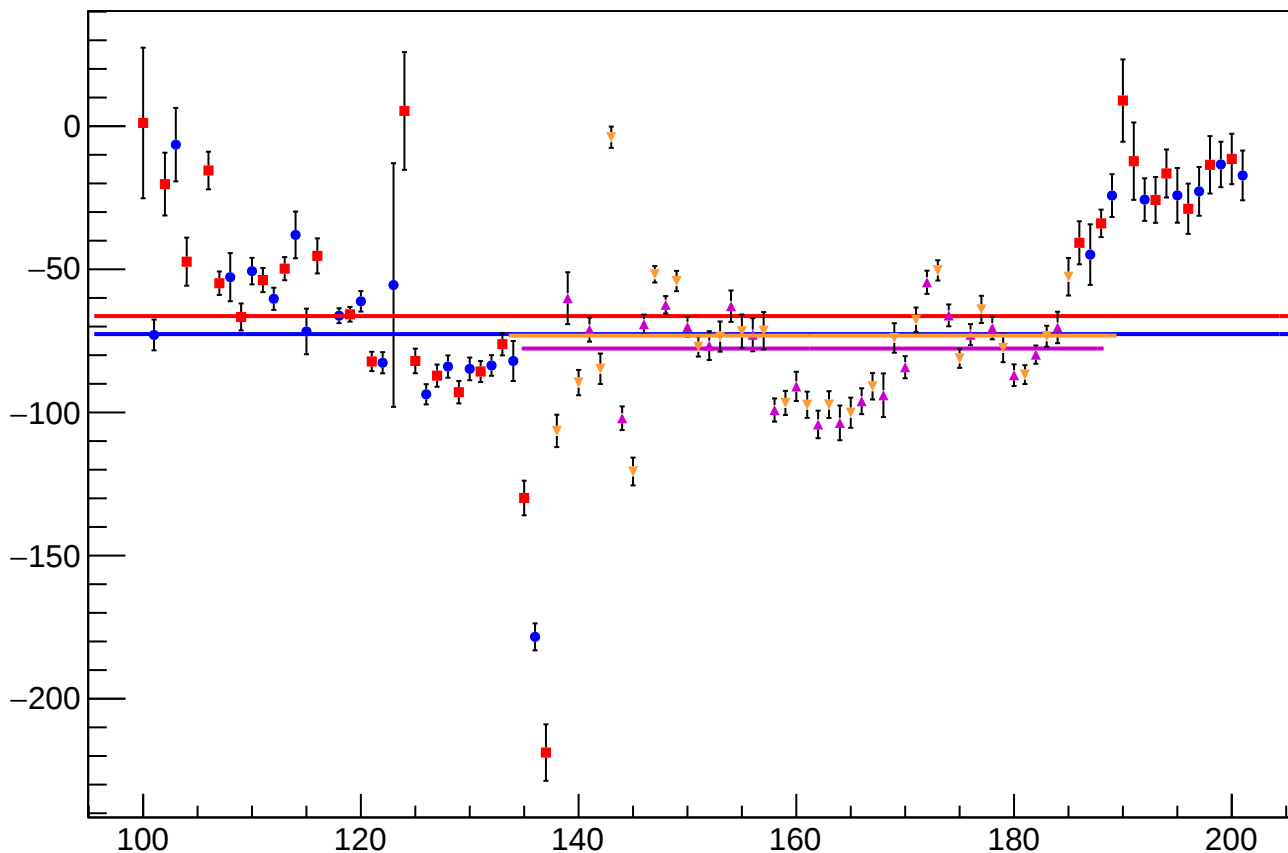
Right: -179.960 $\pm$ 0.819 χ^2/NDF : 6418.1/51

In: -165.805 $\pm$ 0.784 χ^2/NDF :4229.1/46

Out: -166.417 $\pm$ 0.715 χ^2/NDF :7805.8/52

All: -166.139 $\pm$ 0.528 χ^2/NDF : 12035.2/99

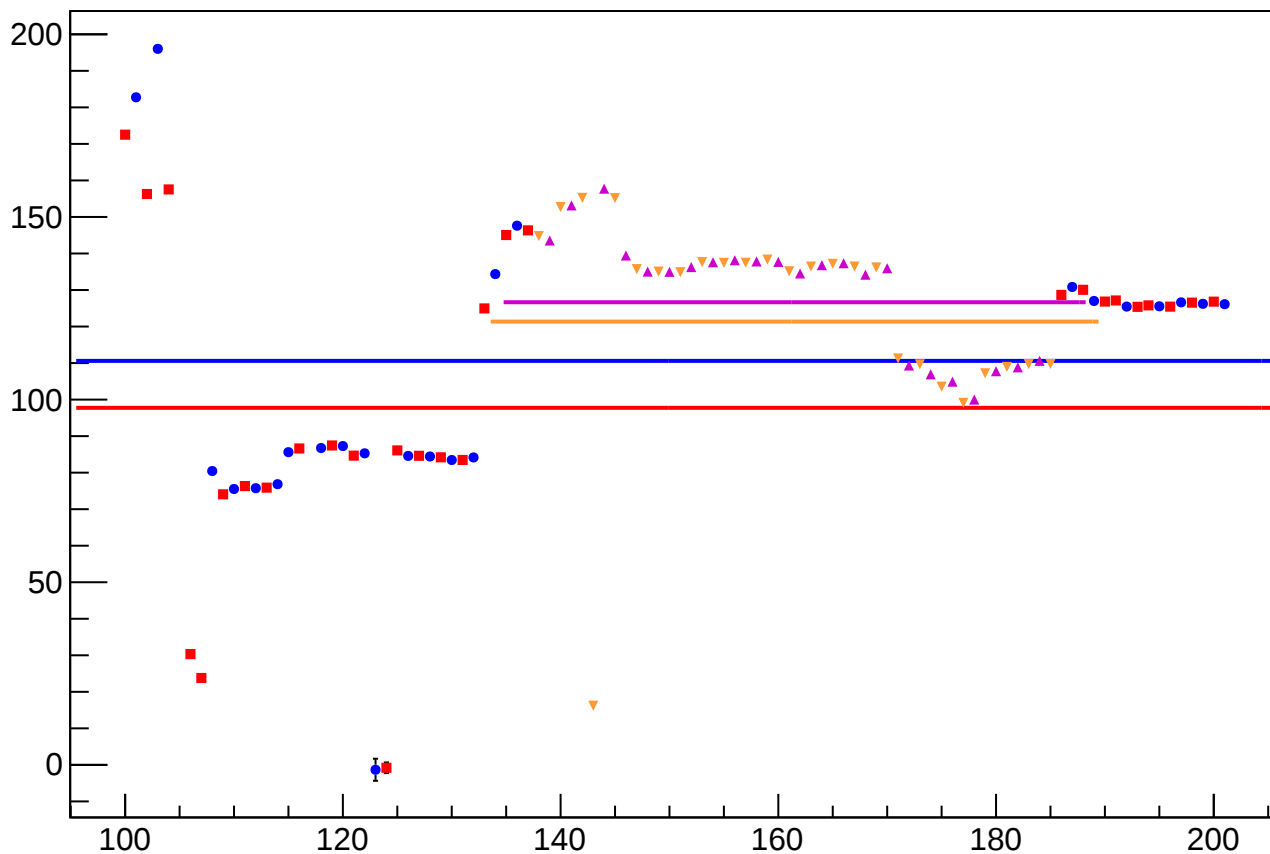
reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -72.629 ± 1.026 $\chi^2/\text{NDF}: 922.7/23$
 Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$
 Right Out: -66.335 ± 0.982 $\chi^2/\text{NDF}: 886.4/27$
 Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$
 Right: -69.343 ± 0.709 $\chi^2/\text{NDF}: 1828.7/51$
 In: -75.530 ± 0.669 $\chi^2/\text{NDF}: 1184.8/46$
 Out: -70.233 ± 0.643 $\chi^2/\text{NDF}: 1702.7/52$
 All: -72.777 ± 0.464 $\chi^2/\text{NDF}: 2920.1/99$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 110.600 $\pm$ 0.059 χ^2 /NDF: 304544.6/23

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 97.749 $\pm$ 0.053 χ^2 /NDF: 553131.0/27

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

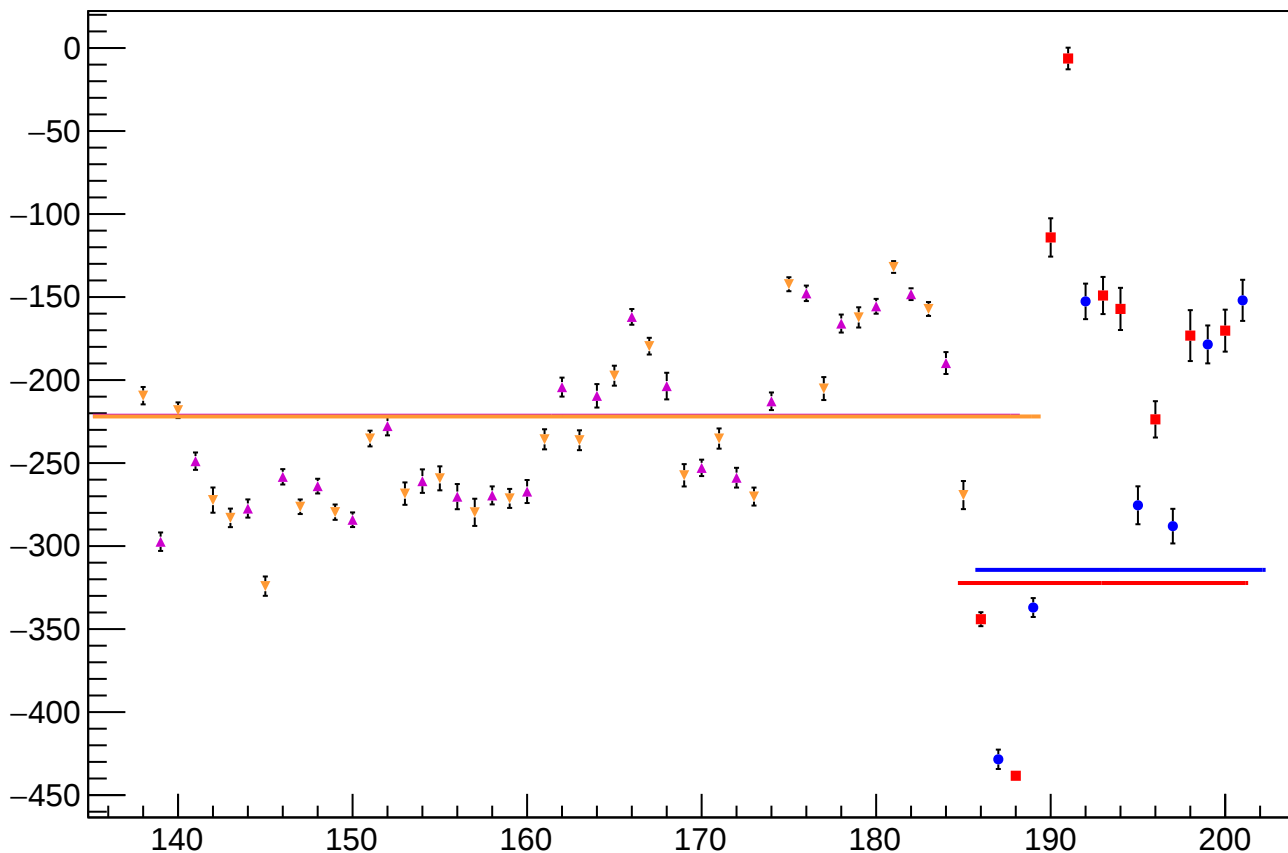
Right: 103.530 $\pm$ 0.040 χ^2 /NDF: 883869.4/51

In: 121.400 $\pm$ 0.034 χ^2 /NDF: 517564.2/46

Out: 112.759 $\pm$ 0.032 χ^2 /NDF: 1160040.7/52

All: 116.876 $\pm$ 0.023 χ^2 /NDF: 1712045.8/99

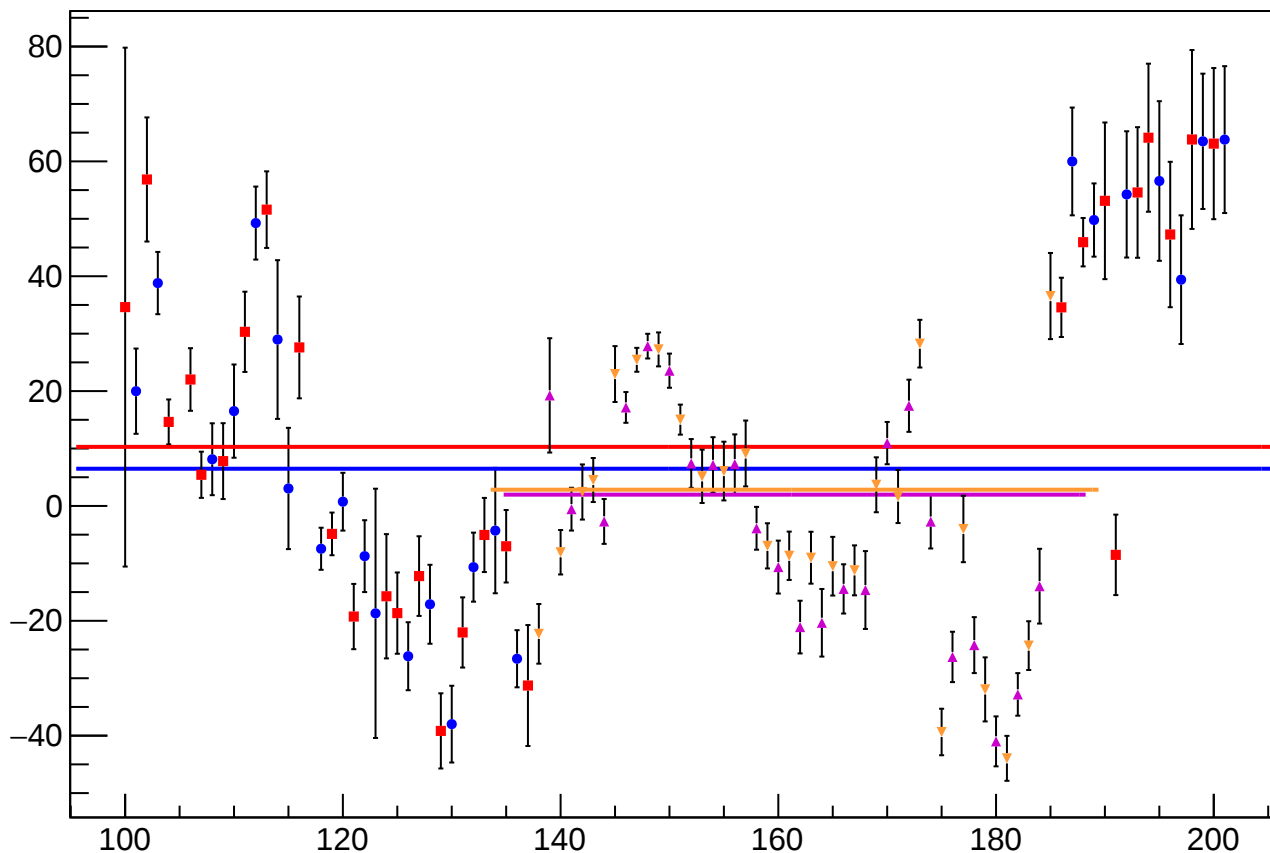
reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -314.335 ± 3.162 χ^2/NDF : 958.5/6
 Left Out: -221.934 ± 1.084 χ^2/NDF : 2578.4/24
 Right Out: -322.247 ± 2.089 χ^2/NDF : 4892.3/8
 Left In: -221.483 ± 1.102 χ^2/NDF : 2149.8/22

Left: -221.712 ± 0.773 χ^2/NDF : 4728.2/47
 Right: -319.842 ± 1.743 χ^2/NDF : 5855.2/15
 In: -231.546 ± 1.041 χ^2/NDF : 3877.3/29
 Out: -243.222 ± 0.963 χ^2/NDF : 9286.6/33
 All: -237.840 ± 0.707 χ^2/NDF : 13231.8/63

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.481 ± 1.425 $\chi^2/\text{NDF}: 414.0/23$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 10.289 ± 1.232 $\chi^2/\text{NDF}: 447.0/27$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

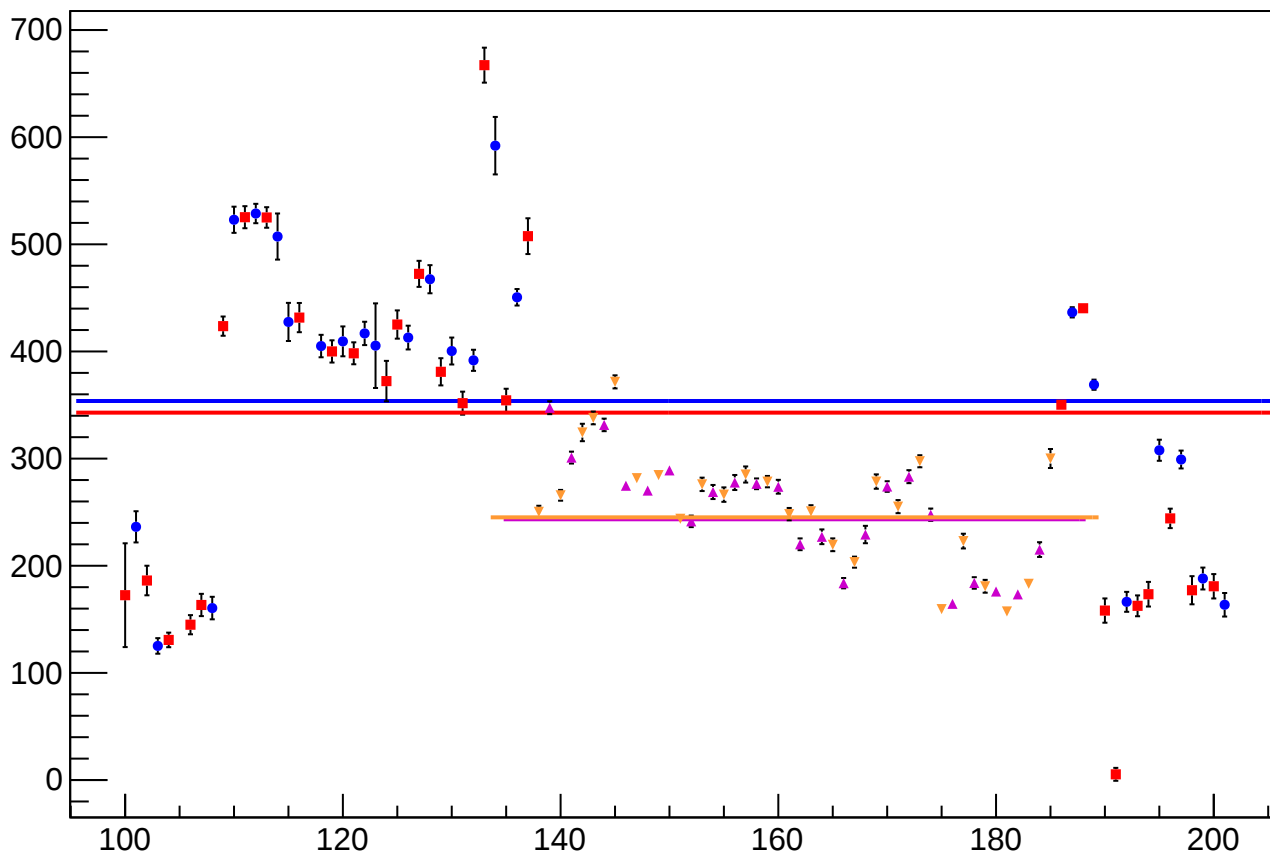
Right: 8.660 ± 0.932 $\chi^2/\text{NDF}: 865.1/51$

In: 3.122 ± 0.720 $\chi^2/\text{NDF}: 1010.6/46$

Out: 5.071 ± 0.675 $\chi^2/\text{NDF}: 1159.5/52$

All: 4.160 ± 0.493 $\chi^2/\text{NDF}: 2174.0/99$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 353.769 $\pm$ 1.921 χ^2 /NDF: 3813.5/23

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 342.899 $\pm$ 1.432 χ^2 /NDF: 9447.8/27

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

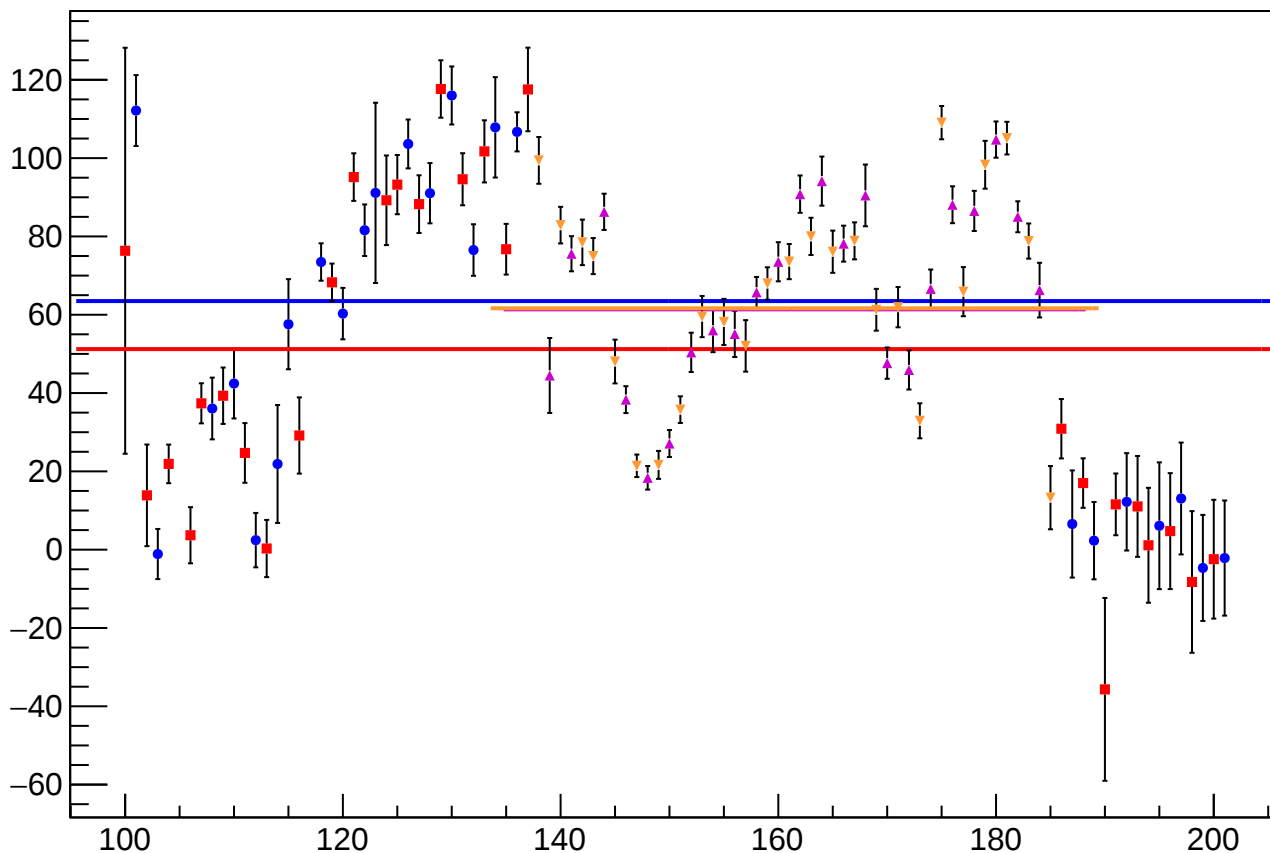
Right: 346.782 $\pm$ 1.148 χ^2 /NDF: 13282.0/51

In: 270.397 $\pm$ 0.950 χ^2 /NDF:8545.4/46

Out: 280.702 $\pm$ 0.863 χ^2 /NDF:15010.2/52

All: 276.044 $\pm$ 0.639 χ^2 /NDF: 23620.0/99

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 63.492 ± 1.665 χ^2/NDF : 585.2/23

Left Out: 61.647 ± 0.936 χ^2/NDF : 871.5/24

Right Out: 51.226 ± 1.478 χ^2/NDF : 645.3/27

Left In: 61.375 ± 0.961 χ^2/NDF : 699.7/22

Left: 61.515 ± 0.671 χ^2/NDF : 1571.3/47

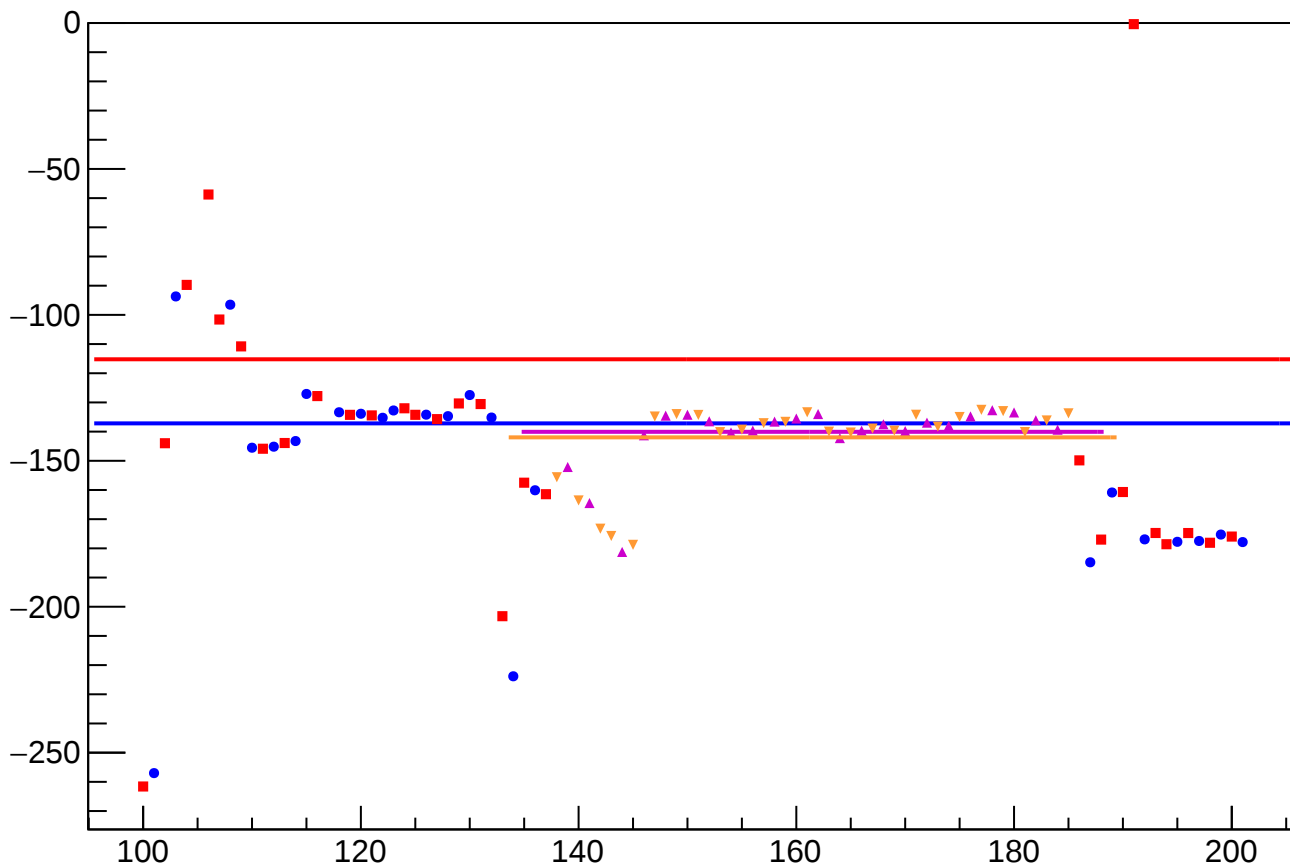
Right: 56.632 ± 1.105 χ^2/NDF : 1260.9/51

In: 61.904 ± 0.832 χ^2/NDF : 1286.1/46

Out: 58.663 ± 0.791 χ^2/NDF : 1552.3/52

All: 60.201 ± 0.573 χ^2/NDF : 2846.4/99

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -137.175 ± 0.080 $\chi^2/\text{NDF}: 228635.6/23$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -115.218 ± 0.070 $\chi^2/\text{NDF}: 586281.3/27$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

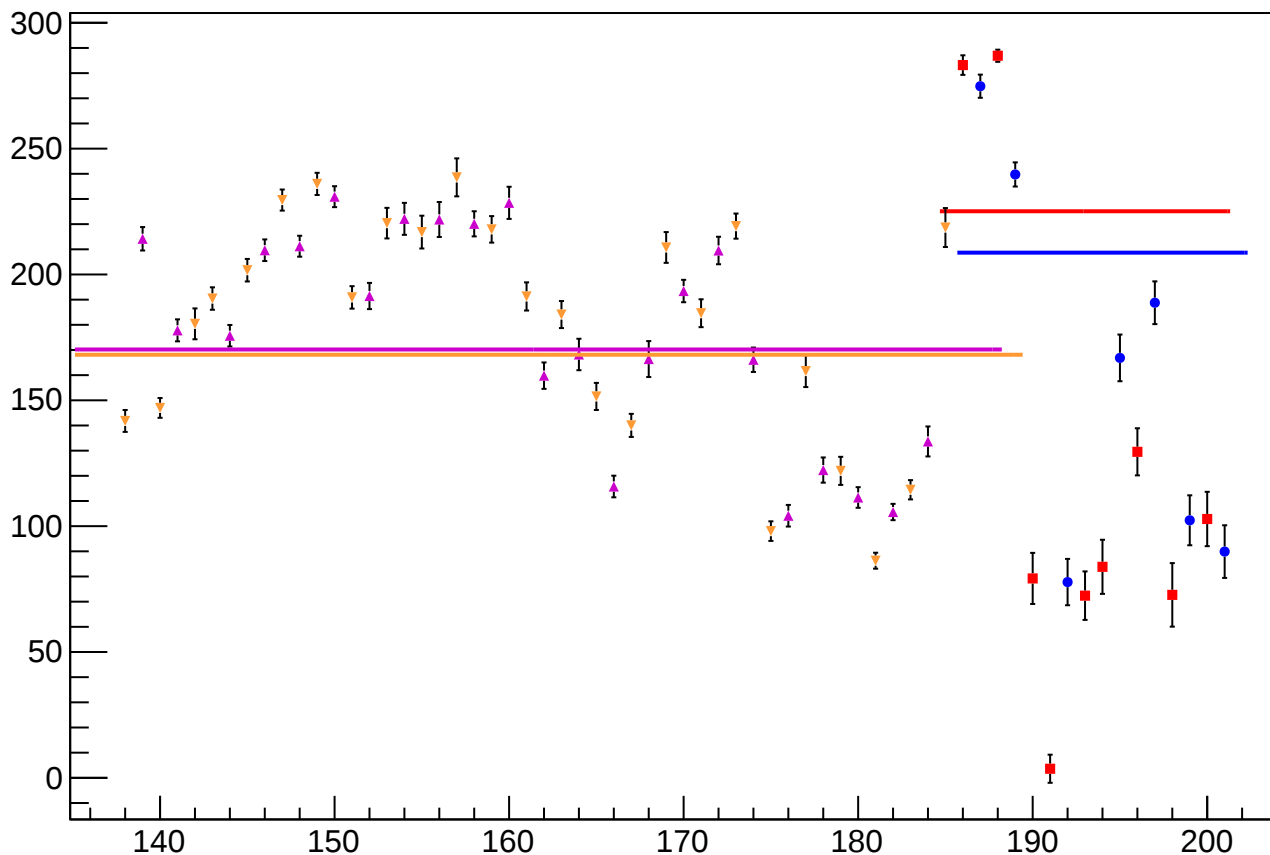
Right: -124.712 ± 0.052 $\chi^2/\text{NDF}: 857857.5/51$

In: -139.371 ± 0.039 $\chi^2/\text{NDF}: 277662.8/46$

Out: -134.169 ± 0.038 $\chi^2/\text{NDF}: 770957.9/52$

All: -136.663 ± 0.027 $\chi^2/\text{NDF}: 1057784.7/99$

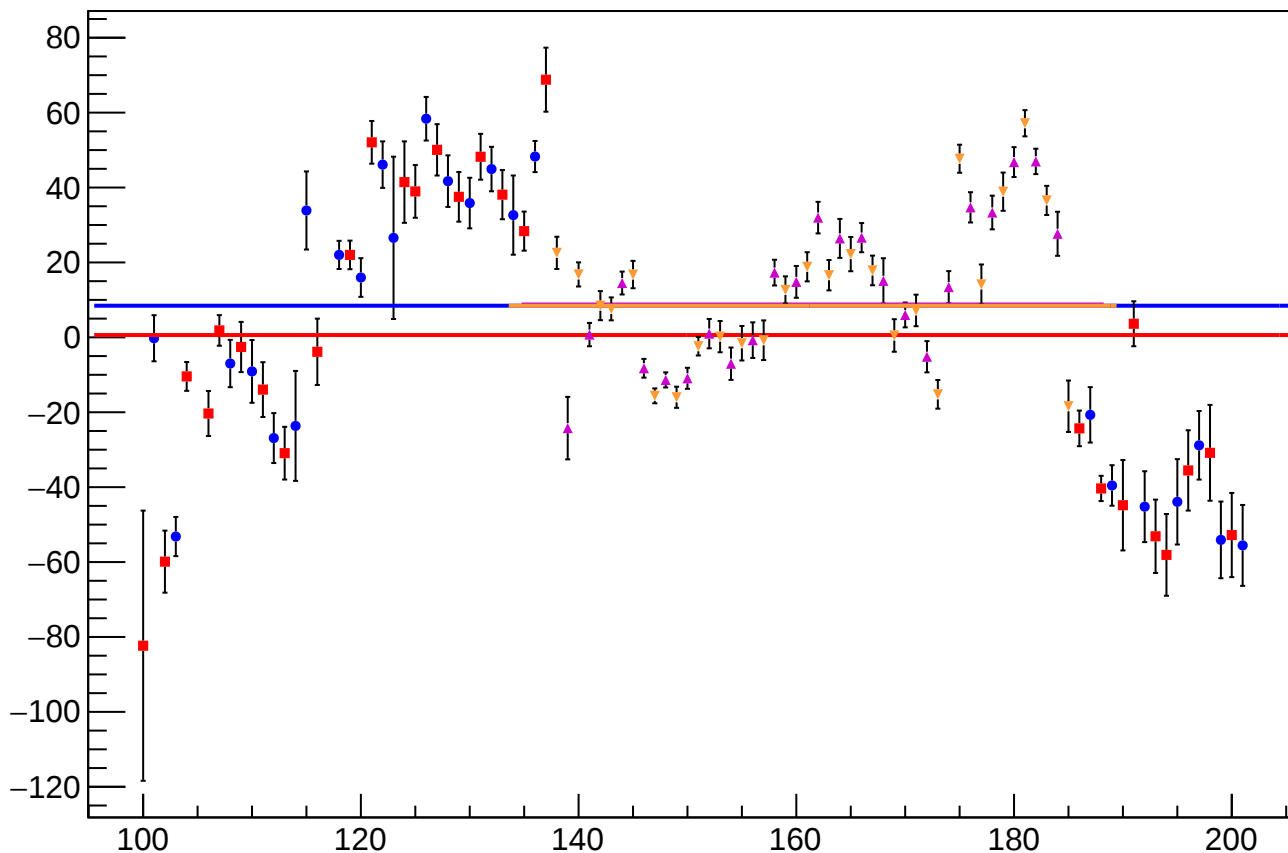
reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 208.671 $\pm$ 2.606 χ^2/NDF : 720.1/6
 Left Out: 168.106 $\pm$ 0.970 χ^2/NDF :2468.8/24
 Right Out: 225.115 $\pm$ 1.752 χ^2/NDF : 3462.7/8
 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: 219.998 $\pm$ 1.454 χ^2/NDF : 4210.2/15
 In: 175.095 $\pm$ 0.930 χ^2/NDF :2934.8/29
 Out: 181.486 $\pm$ 0.849 χ^2/NDF :6741.8/33
 All: 178.582 $\pm$ 0.627 χ^2/NDF : 9702.3/63

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.446 ± 1.356 $\chi^2/\text{NDF}: 727.2/23$

Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$

Right Out: 0.617 ± 1.174 $\chi^2/\text{NDF}: 816.8/27$

Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$

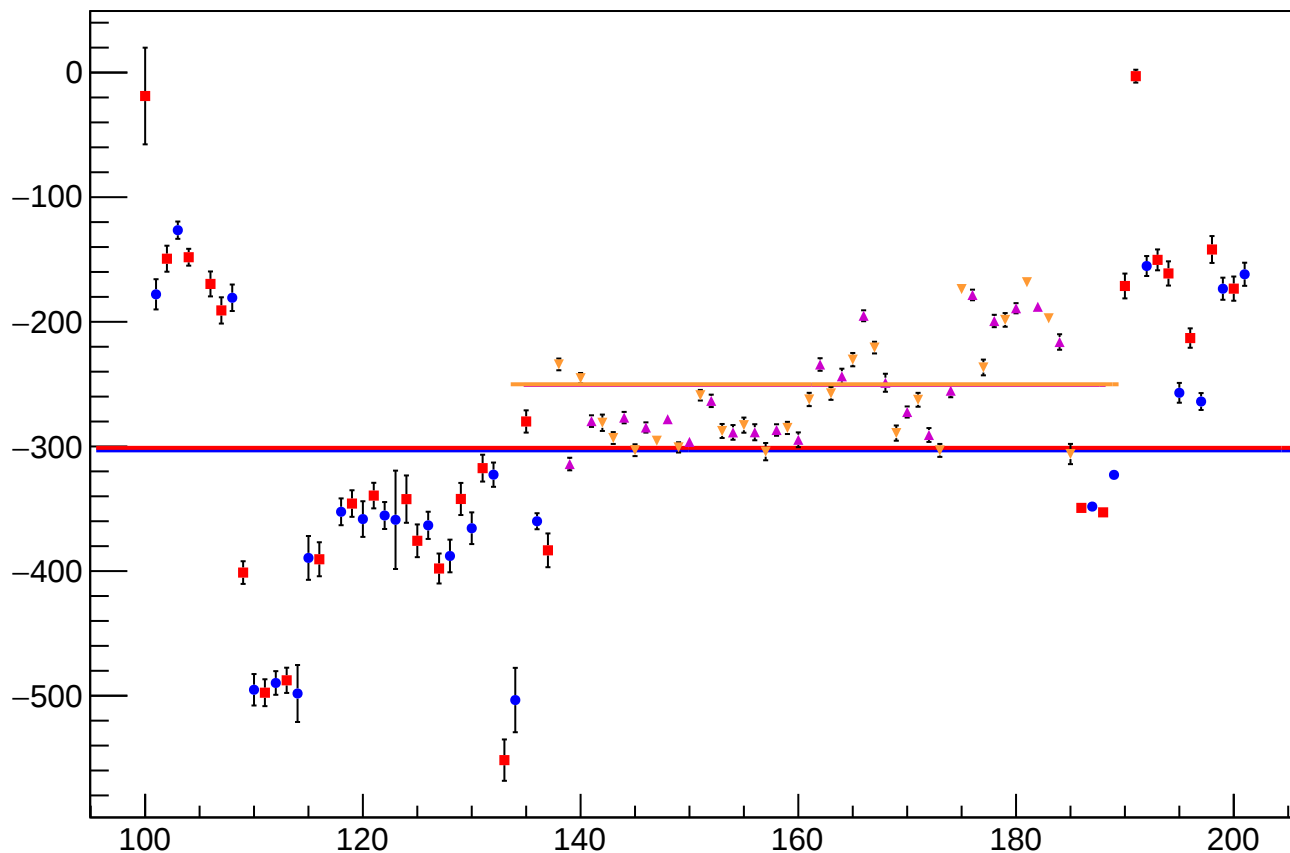
Right: 3.973 ± 0.888 $\chi^2/\text{NDF}: 1563.0/51$

In: 8.692 ± 0.662 $\chi^2/\text{NDF}: 1354.0/46$

Out: 6.265 ± 0.619 $\chi^2/\text{NDF}: 1600.9/52$

All: 7.397 ± 0.452 $\chi^2/\text{NDF}: 2962.1/99$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -303.139+/-1.692 χ^2/NDF : 2923.2/23

Left Out: -250.119+/-0.972 χ^2/NDF : 2246.9/24

Right Out: -301.115+/-1.254 χ^2/NDF : 7813.3/27

Left In: -250.628+/-0.990 χ^2/NDF : 1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

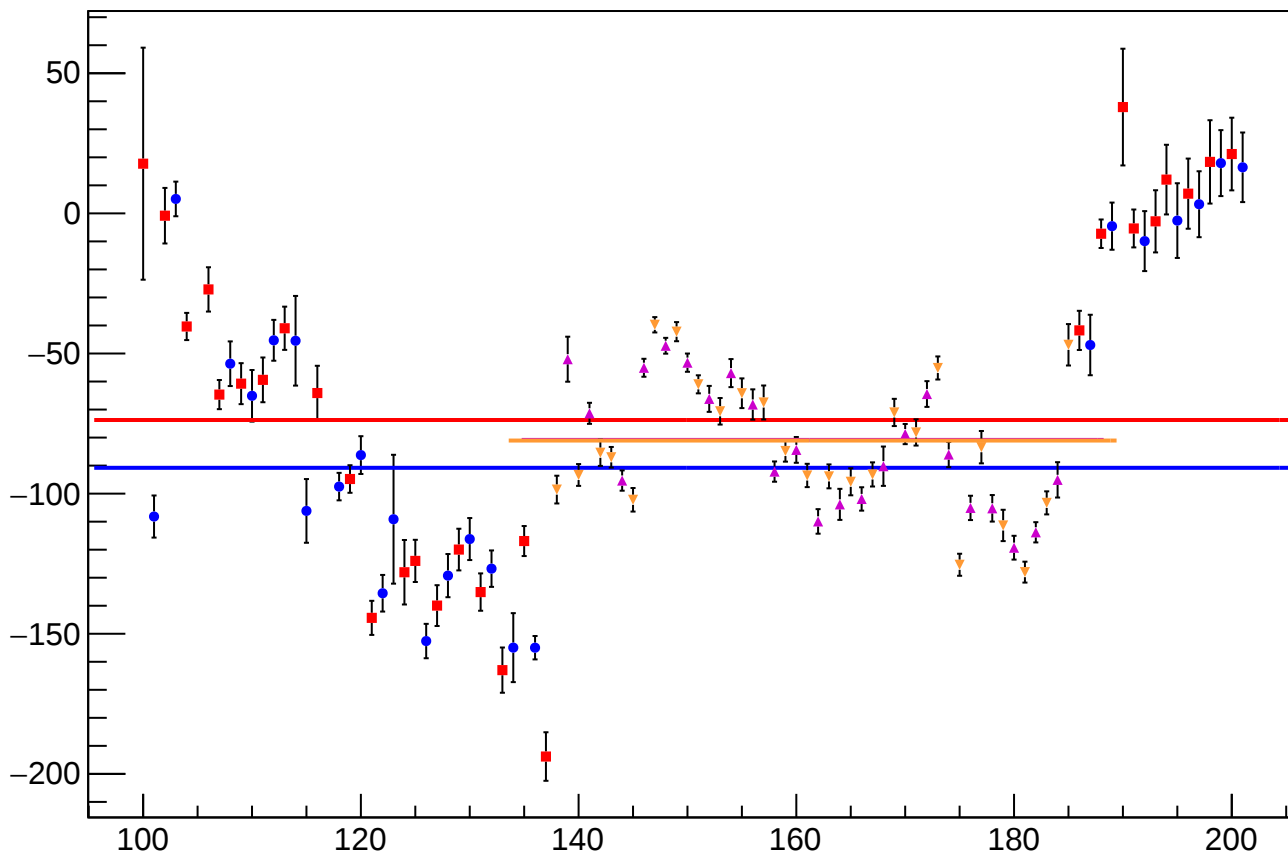
Right: -301.833+/-1.007 χ^2/NDF : 10737.5/51

In: -264.028+/-0.855 χ^2/NDF : 5577.7/46

Out: -269.267+/-0.768 χ^2/NDF : 11093.1/52

All: -266.925+/-0.571 χ^2/NDF : 16691.6/99

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -90.785 ± 1.585 $\chi^2/\text{NDF}: 1253.4/23$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -73.727 ± 1.415 $\chi^2/\text{NDF}: 1520.1/27$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

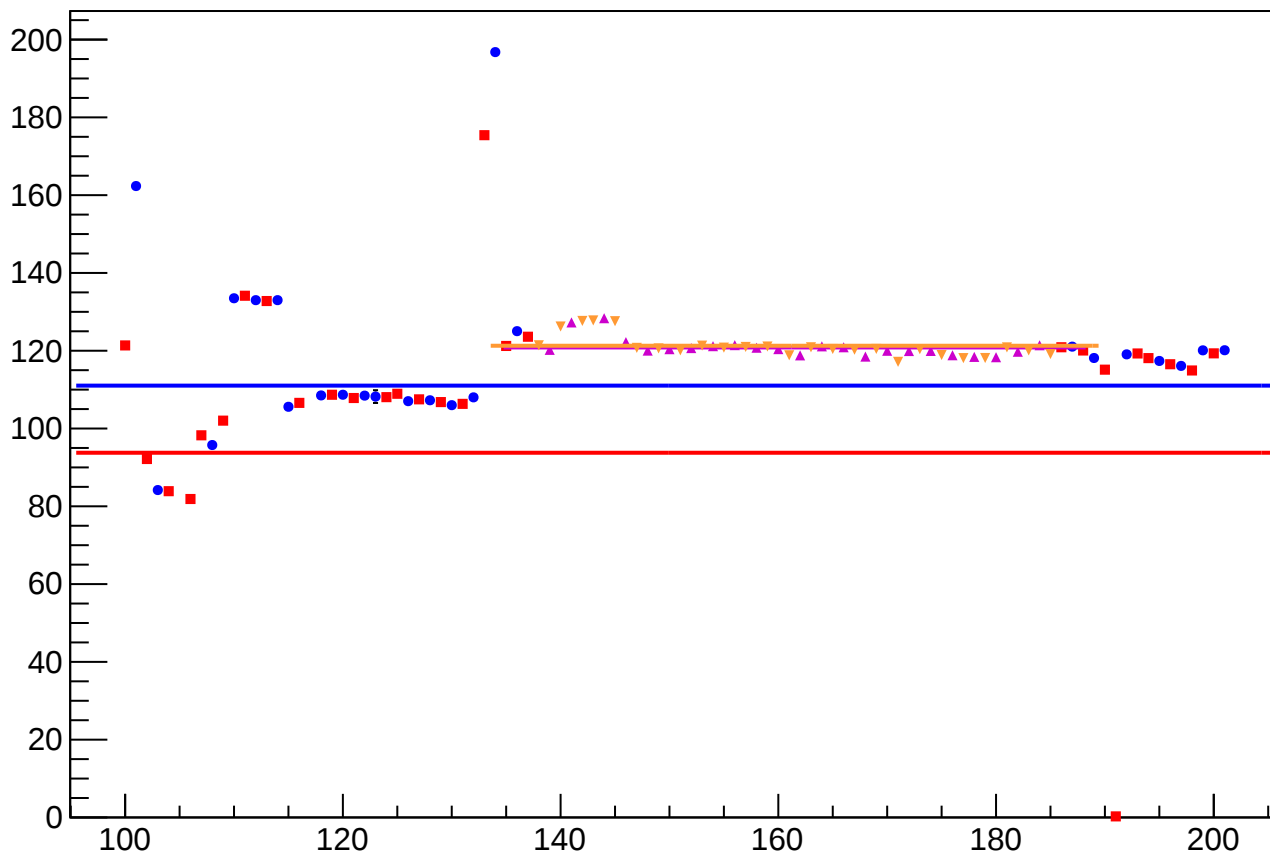
Right: -81.290 ± 1.056 $\chi^2/\text{NDF}: 2837.9/51$

In: -83.144 ± 0.764 $\chi^2/\text{NDF}: 1976.7/46$

Out: -79.137 ± 0.724 $\chi^2/\text{NDF}: 2452.9/52$

All: -81.034 ± 0.526 $\chi^2/\text{NDF}: 4444.2/99$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 111.029 $\pm$ 0.074 χ^2 /NDF: 77072.5/23

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 93.770 $\pm$ 0.064 χ^2 /NDF: 353416.5/27

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

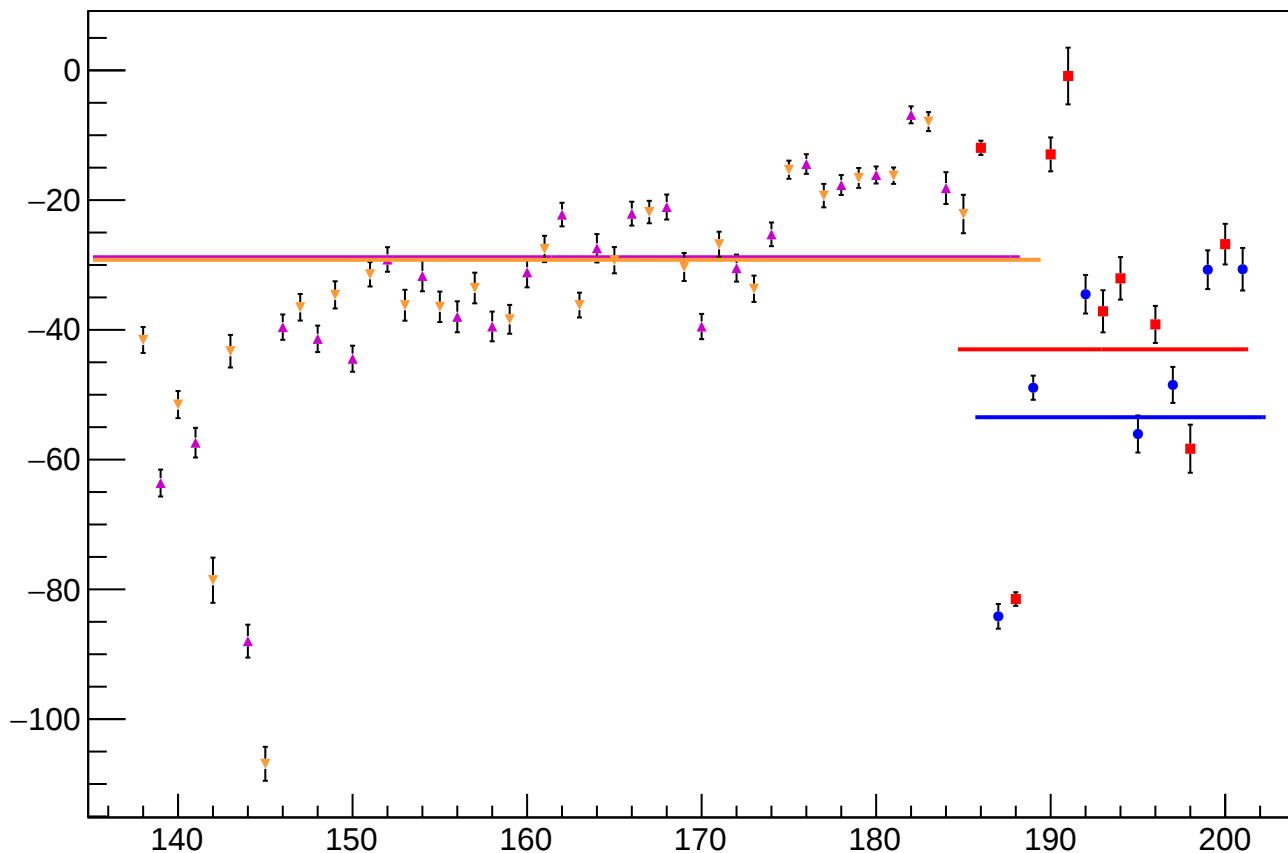
Right: 101.228 $\pm$ 0.049 χ^2 /NDF: 461555.4/51

In: 118.554 $\pm$ 0.036 χ^2 /NDF: 94003.1/46

Out: 113.590 $\pm$ 0.034 χ^2 /NDF: 489970.0/52

All: 115.958 $\pm$ 0.025 χ^2 /NDF: 594123.2/99

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -53.466 ± 0.939 $\chi^2/\text{NDF}: 416.2/6$

Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$

Right Out: -43.003 ± 0.643 $\chi^2/\text{NDF}: 2431.2/8$

Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$

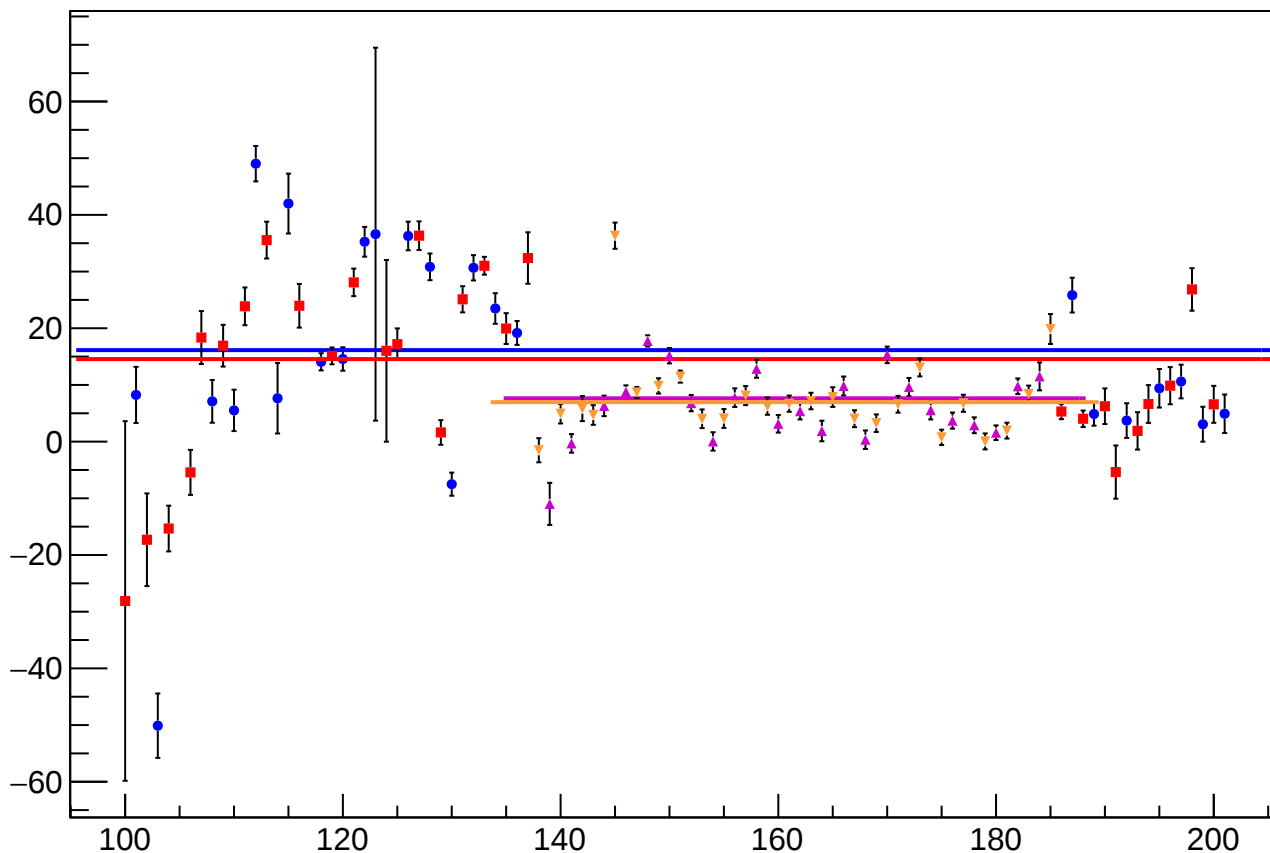
Right: -46.341 ± 0.530 $\chi^2/\text{NDF}: 2932.0/15$

In: -32.523 ± 0.364 $\chi^2/\text{NDF}: 2765.8/29$

Out: -32.895 ± 0.332 $\chi^2/\text{NDF}: 4650.7/33$

All: -32.726 ± 0.246 $\chi^2/\text{NDF}: 7417.1/63$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.139 $\pm$ 0.561 χ^2 /NDF: 727.0/23

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 14.559 $\pm$ 0.498 χ^2 /NDF: 609.5/27

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

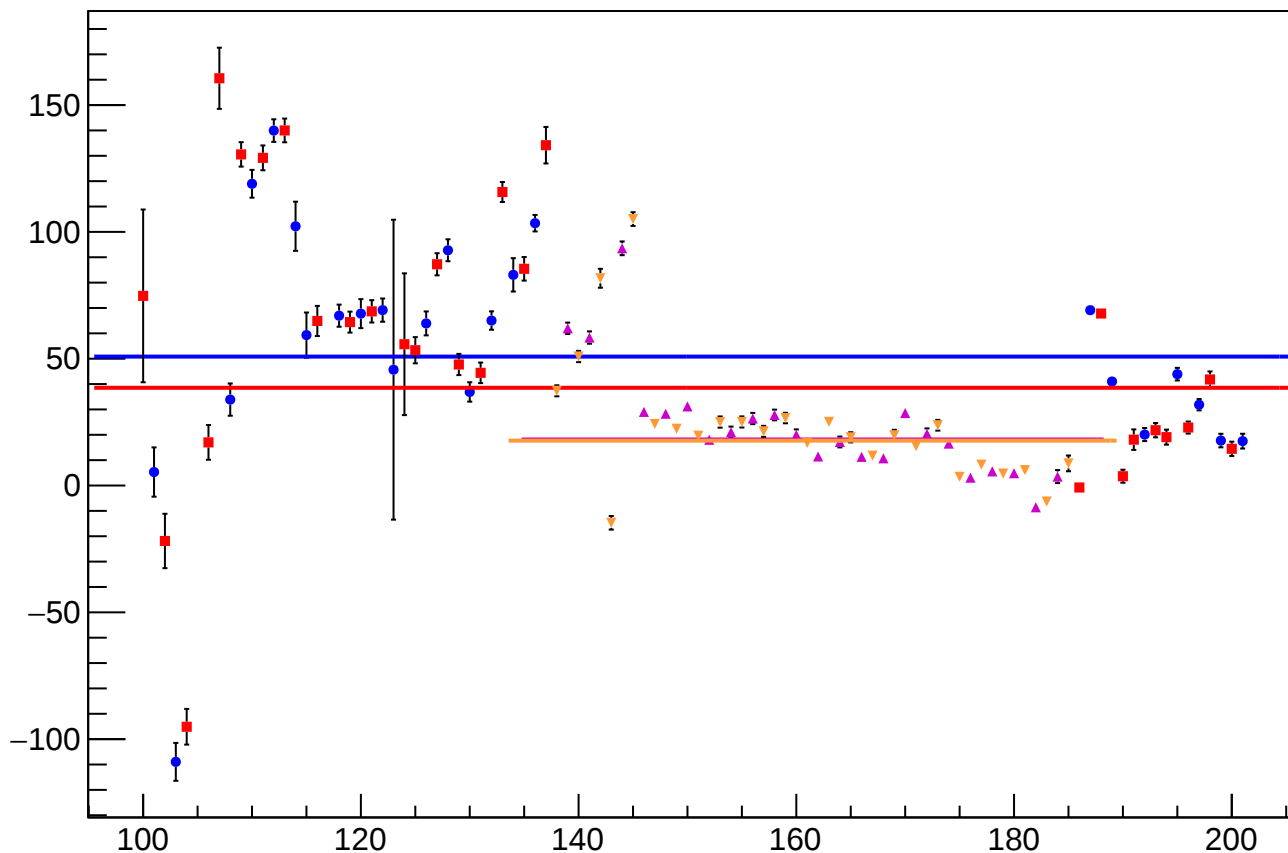
Right: 15.256 $\pm$ 0.373 χ^2 /NDF: 1340.9/51

In: 9.661 $\pm$ 0.274 χ^2 /NDF:1239.7/46

Out: 9.010 $\pm$ 0.259 χ^2 /NDF:1100.5/52

All: 9.318 $\pm$ 0.188 χ^2 /NDF: 2343.2/99

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 50.832 $\pm$ 0.669 χ^2 /NDF: 2206.3/23

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 38.537 $\pm$ 0.487 χ^2 /NDF: 6203.2/27

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

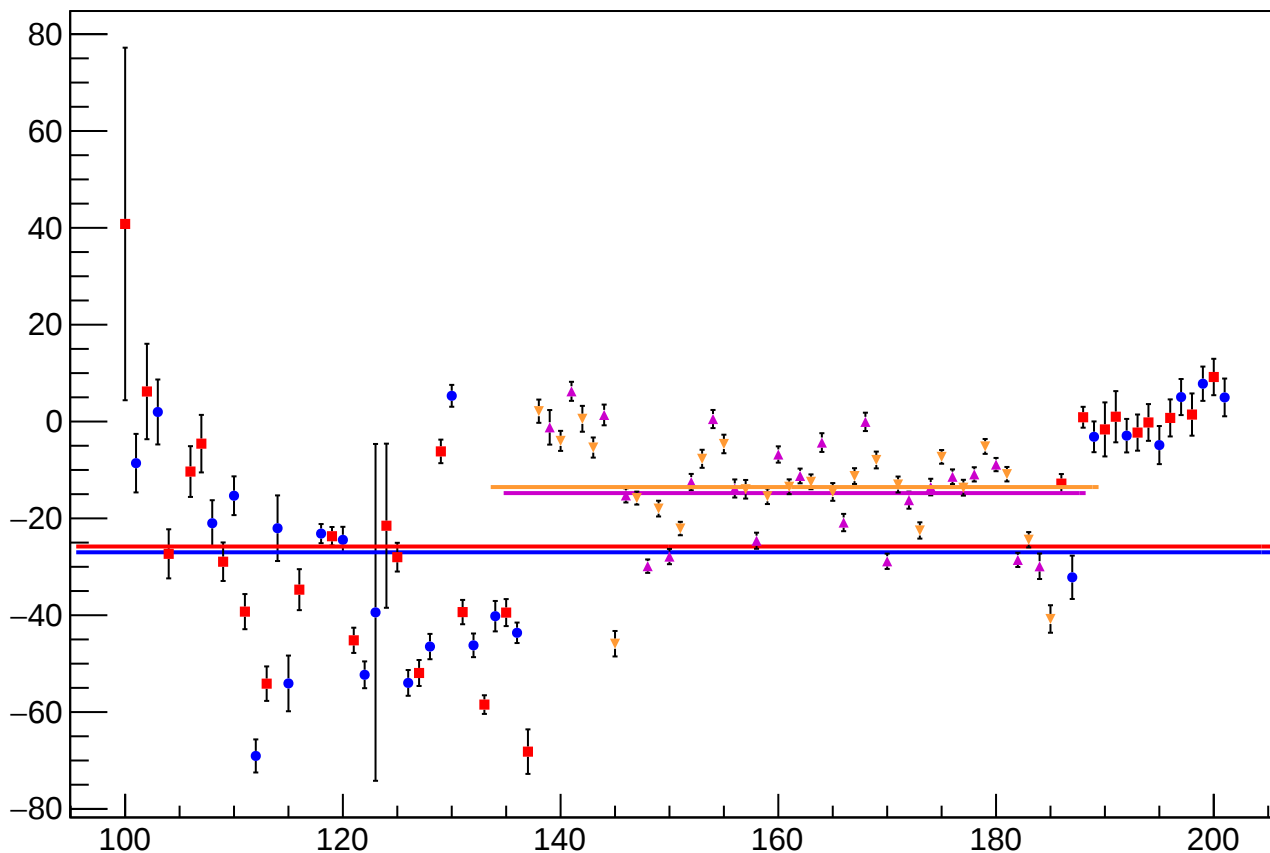
Right: 42.791 $\pm$ 0.394 χ^2 /NDF: 8630.2/51

In: 26.516 $\pm$ 0.339 χ^2 /NDF:6319.9/46

Out: 25.778 $\pm$ 0.303 χ^2 /NDF:9756.9/52

All: 26.106 $\pm$ 0.226 χ^2 /NDF: 16079.4/99

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -27.003 ± 0.658 $\chi^2/\text{NDF}: 1181.1/23$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -25.808 ± 0.607 $\chi^2/\text{NDF}: 1259.9/27$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

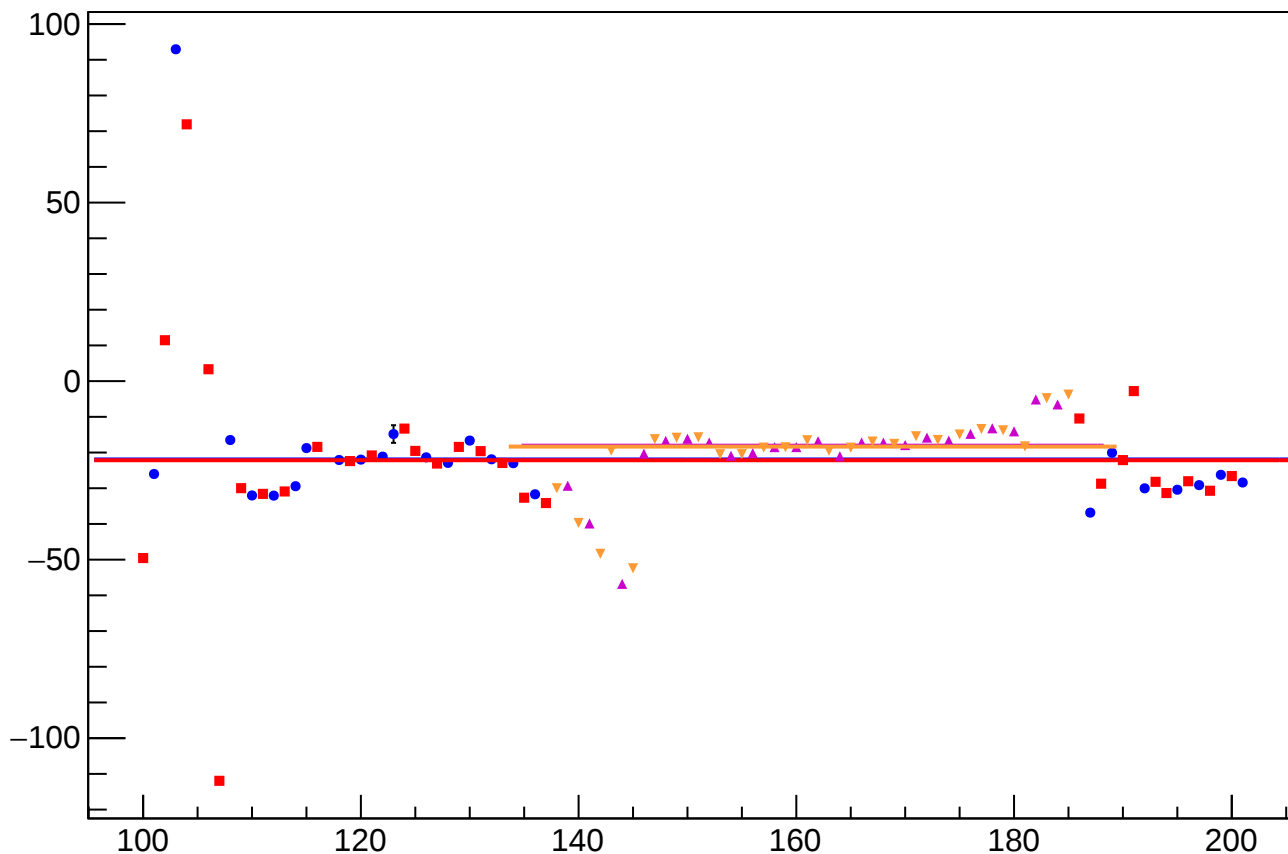
Right: -26.358 ± 0.446 $\chi^2/\text{NDF}: 2442.8/51$

In: -17.524 ± 0.312 $\chi^2/\text{NDF}: 2286.8/46$

Out: -16.513 ± 0.299 $\chi^2/\text{NDF}: 2142.1/52$

All: -16.998 ± 0.216 $\chi^2/\text{NDF}: 4434.4/99$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -21.944 ± 0.032 $\chi^2/\text{NDF}: 512523.1/23$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -22.155 ± 0.030 $\chi^2/\text{NDF}: 485643.1/27$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

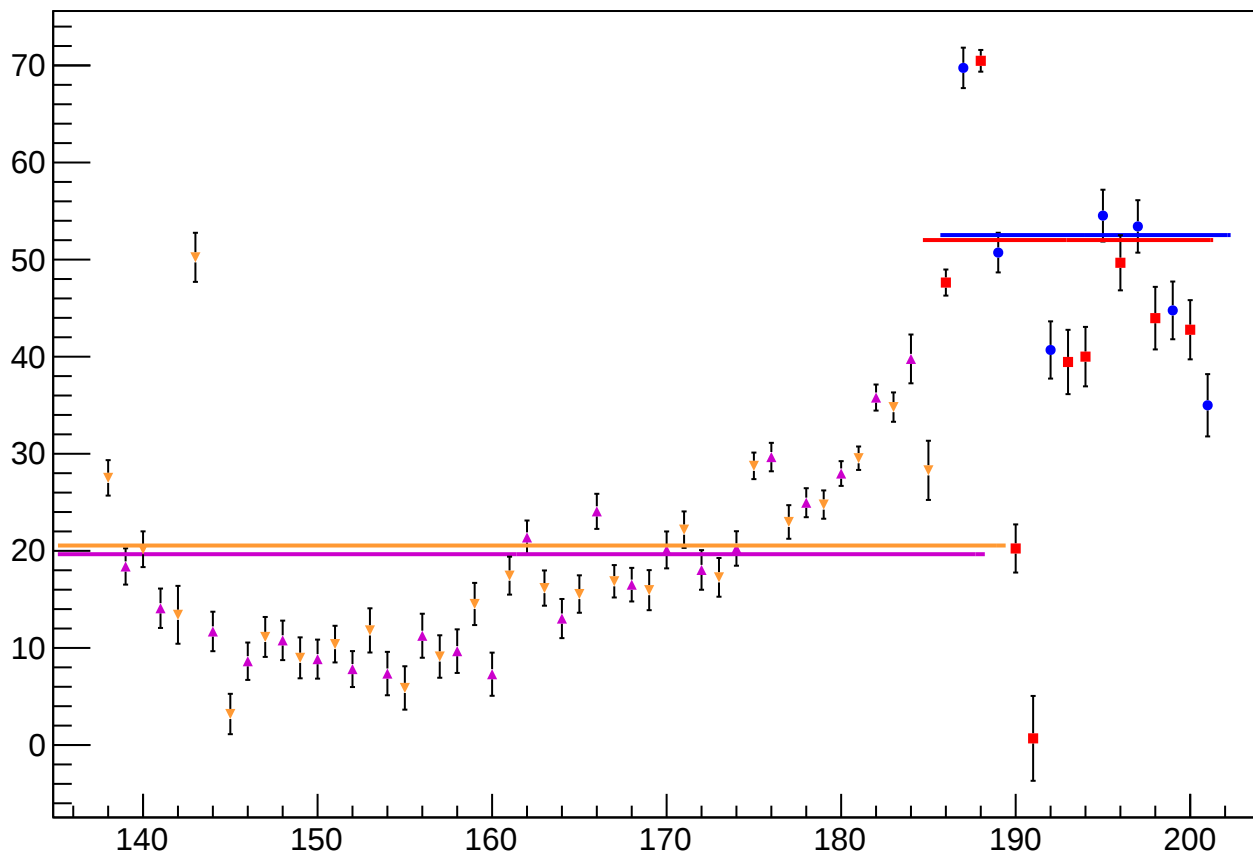
Right: -22.056 ± 0.022 $\chi^2/\text{NDF}: 998188.8/51$

In: -18.852 ± 0.014 $\chi^2/\text{NDF}: 765942.2/46$

Out: -19.147 ± 0.014 $\chi^2/\text{NDF}: 782179.0/52$

All: -19.003 ± 0.010 $\chi^2/\text{NDF}: 1548336.8/99$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 52.526 $\pm$ 0.965 χ^2 /NDF: 122.6/6

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 52.013 $\pm$ 0.691 χ^2 /NDF: 631.1/8

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

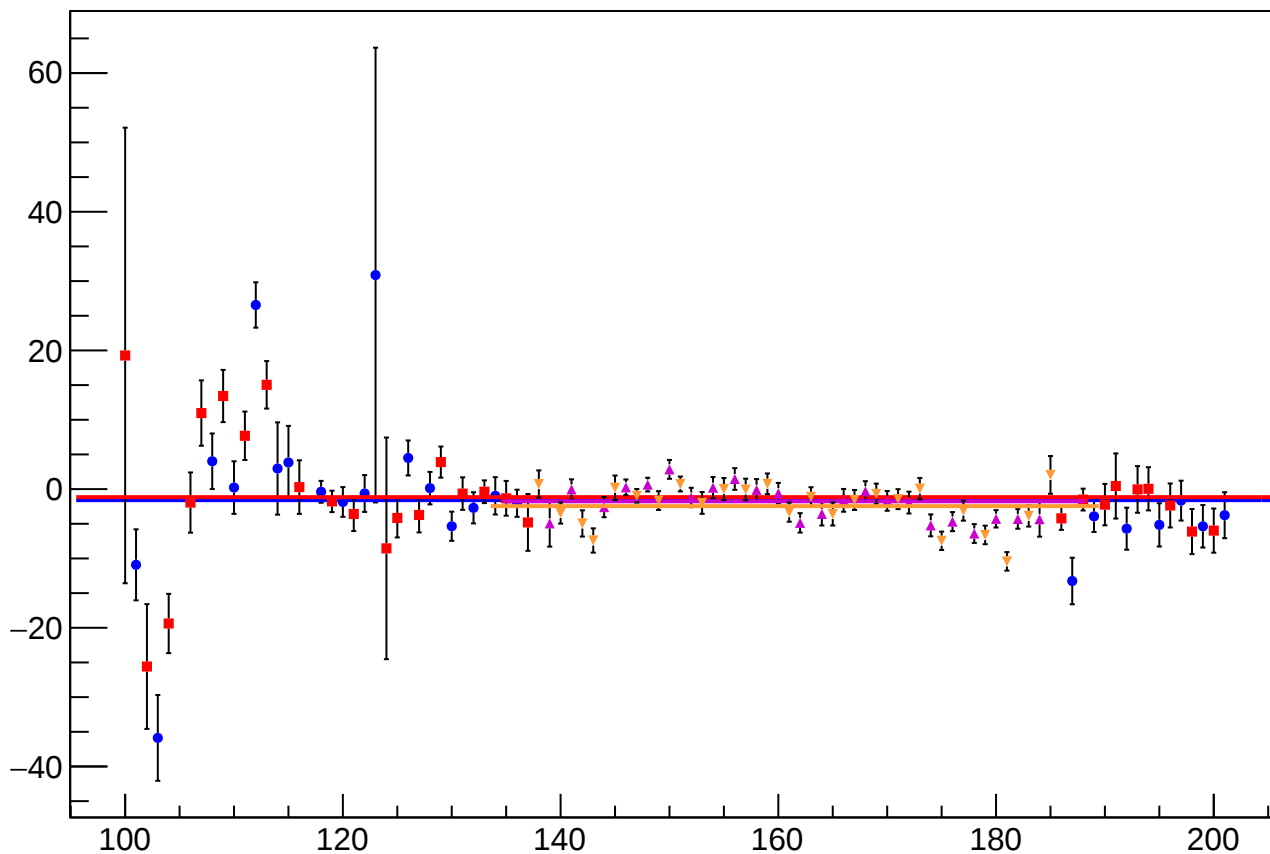
Right: 52.187 $\pm$ 0.562 χ^2 /NDF: 753.9/15

In: 24.074 $\pm$ 0.354 χ^2 /NDF: 1698.1/29

Out: 27.651 $\pm$ 0.328 χ^2 /NDF: 2862.7/33

All: 25.997 $\pm$ 0.241 χ^2 /NDF: 4615.6/63

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.591 ± 0.569 χ^2/NDF : 141.5/23

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.161 ± 0.518 χ^2/NDF : 94.9/27

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

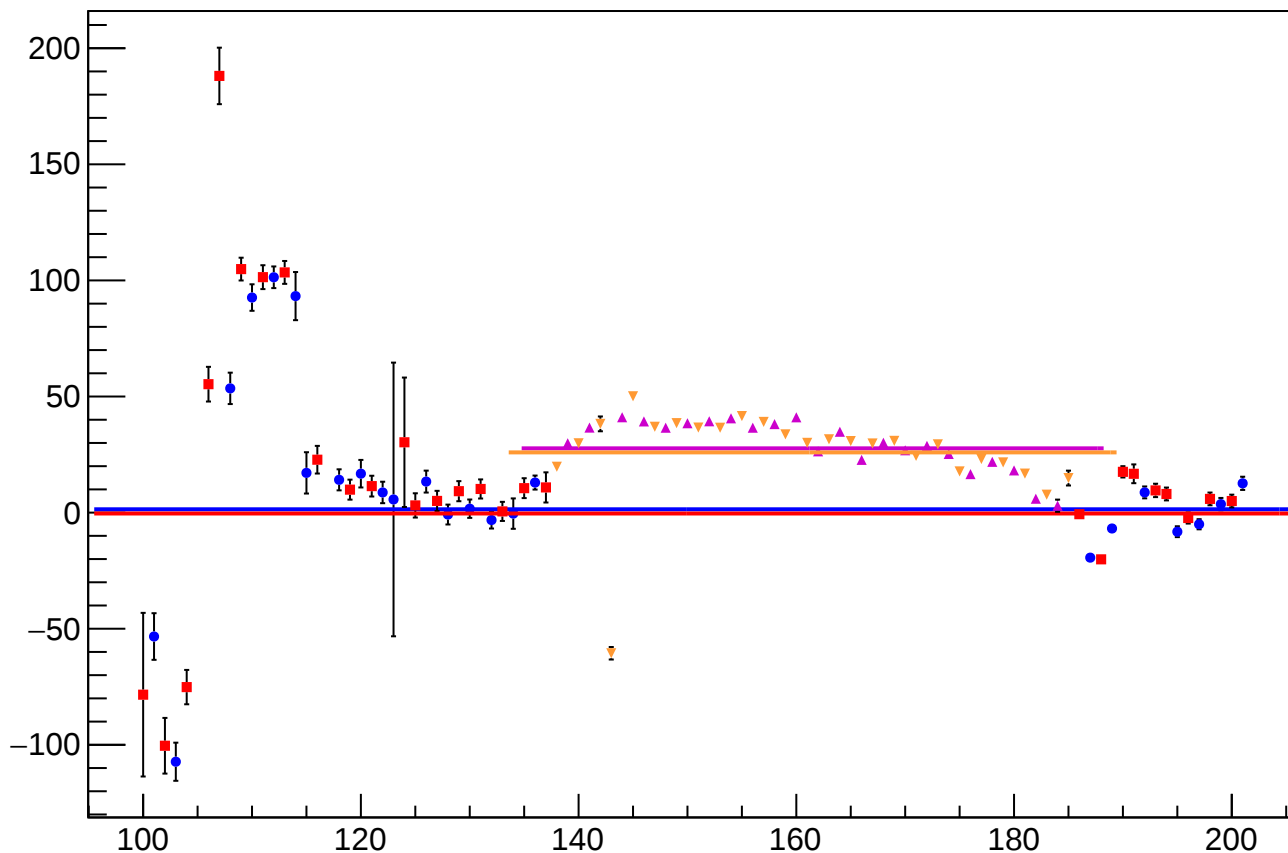
Right: -1.356 ± 0.383 χ^2/NDF : 236.8/51

In: -1.721 ± 0.267 χ^2/NDF : 209.0/46

Out: -2.142 ± 0.255 χ^2/NDF : 205.6/52

All: -1.942 ± 0.184 χ^2/NDF : 415.9/99

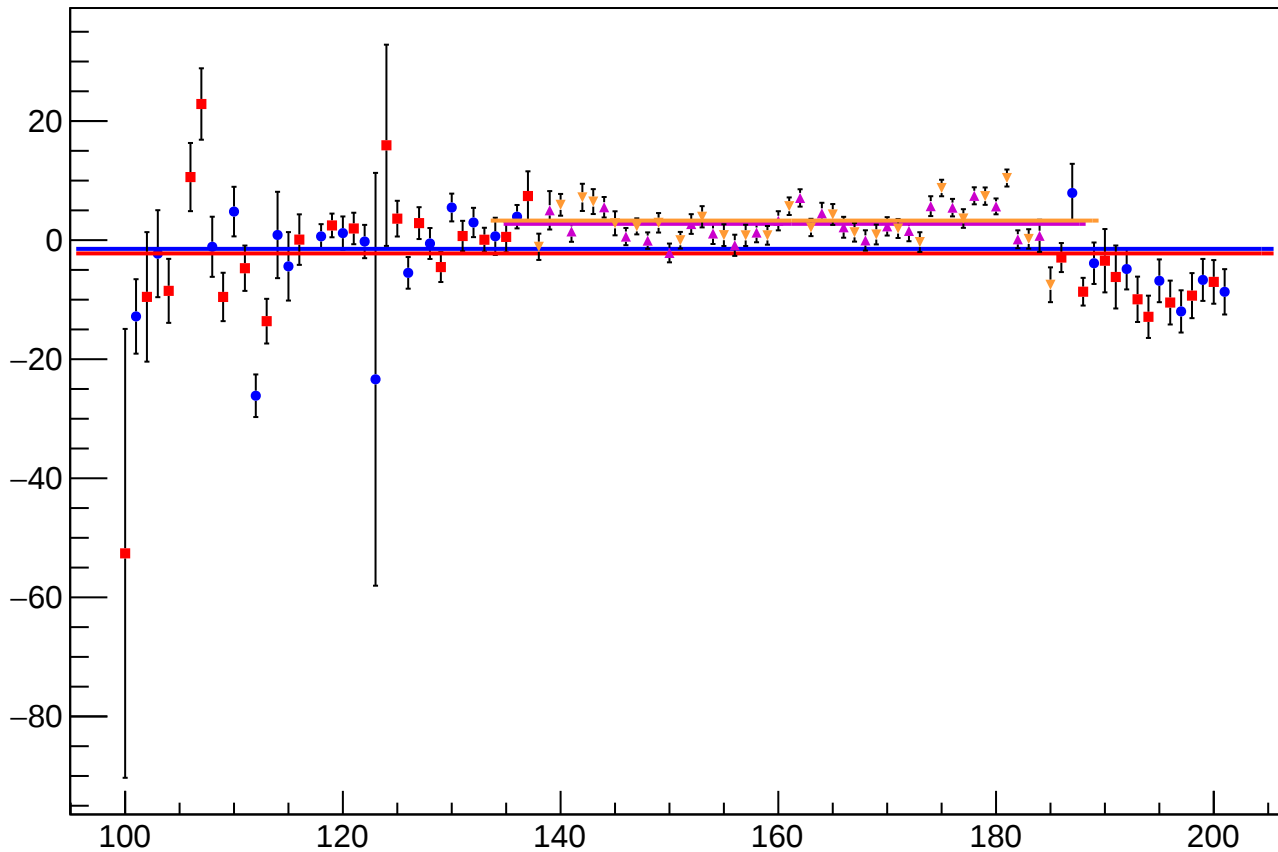
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 1.431 ± 0.687 $\chi^2/\text{NDF}: 1320.8/23$
 Left Out: 25.938 ± 0.372 $\chi^2/\text{NDF}: 1711.6/24$
 Right Out: -0.376 ± 0.523 $\chi^2/\text{NDF}: 2403.2/27$
 Left In: 27.677 ± 0.378 $\chi^2/\text{NDF}: 803.9/22$

Left: 26.794 ± 0.265 $\chi^2/\text{NDF}: 2526.2/47$
 Right: 0.287 ± 0.416 $\chi^2/\text{NDF}: 3728.4/51$
 In: 21.571 ± 0.331 $\chi^2/\text{NDF}: 3244.9/46$
 Out: 17.080 ± 0.303 $\chi^2/\text{NDF}: 5796.2/52$
 All: 19.127 ± 0.224 $\chi^2/\text{NDF}: 9141.1/99$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.466 ± 0.662 χ^2/NDF : 100.5/23

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -2.230 ± 0.624 χ^2/NDF : 97.6/27

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

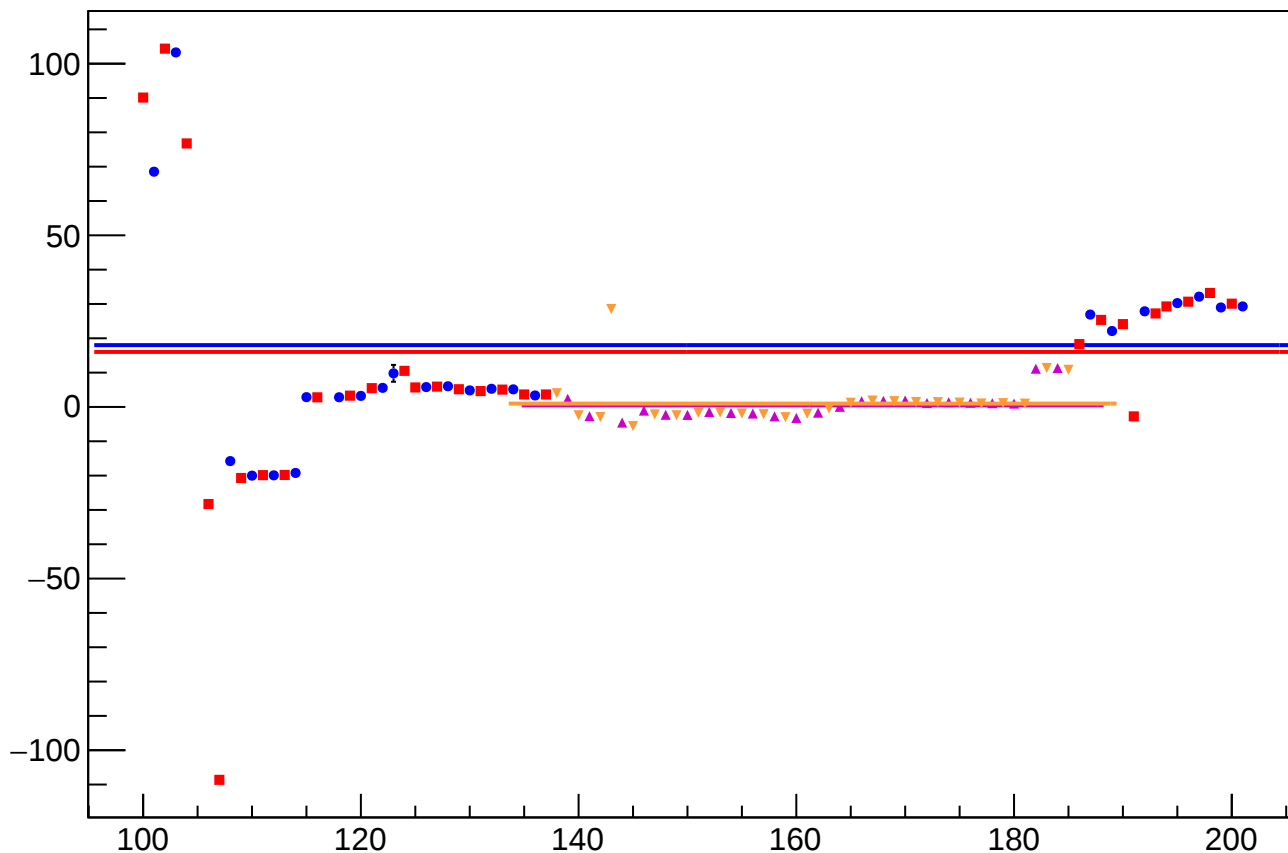
Right: -1.871 ± 0.454 χ^2/NDF : 198.8/51

In: 1.857 ± 0.303 χ^2/NDF : 196.8/46

Out: 2.070 ± 0.293 χ^2/NDF : 260.8/52

All: 1.967 ± 0.211 χ^2/NDF : 457.8/99

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 18.008+/-0.032 χ^2/NDF : 471236.6/23

Left Out: 0.979+/-0.015 χ^2/NDF :117391.3/24

Right Out: 16.035+/-0.030 χ^2/NDF : 695114.2/27

Left In: 0.451+/-0.015 χ^2/NDF :50699.8/22

Left: 0.719+/-0.011 χ^2/NDF : 168685.3/47

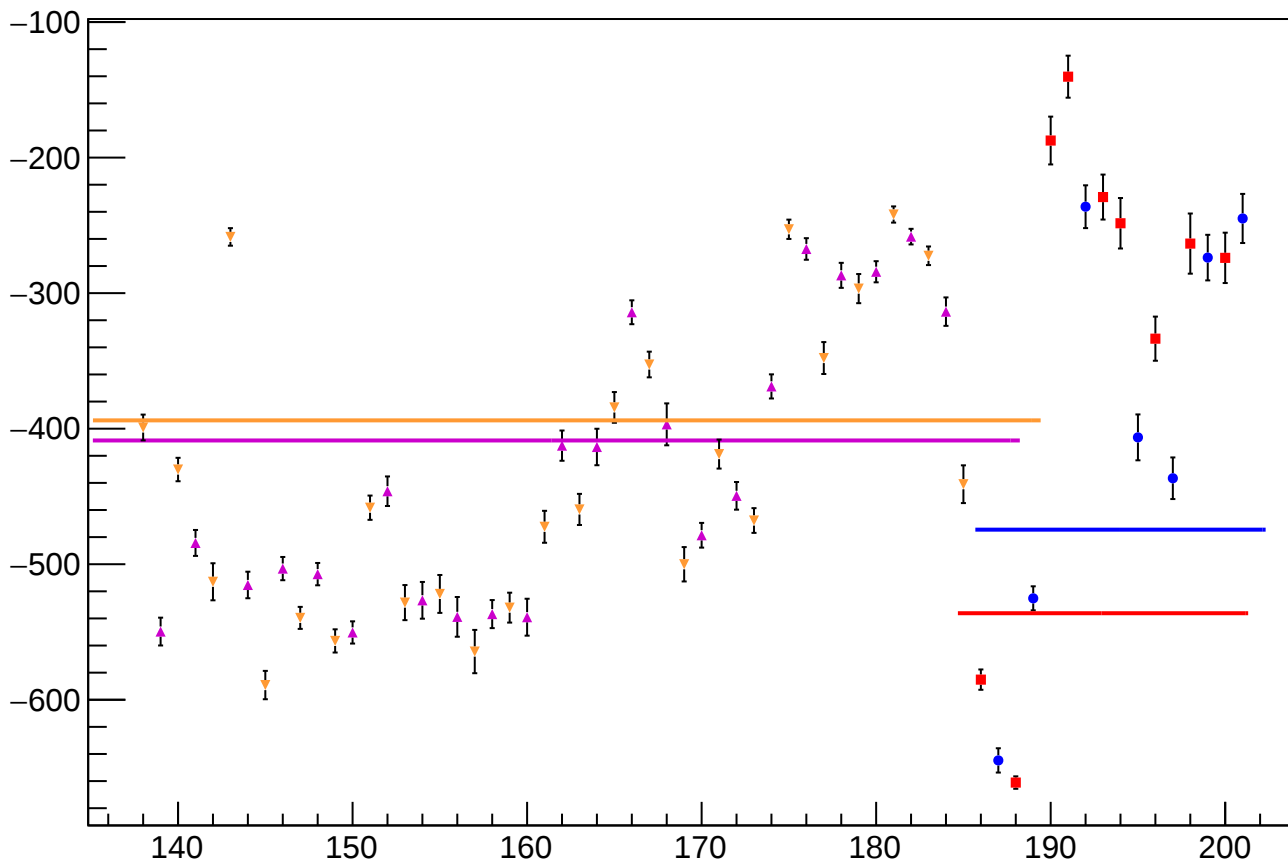
Right: 16.973+/-0.022 χ^2/NDF : 1168363.1/51

In: 3.787+/-0.014 χ^2/NDF :767893.4/46

Out: 3.996+/-0.014 χ^2/NDF :1009332.1/52

All: 3.894+/-0.010 χ^2/NDF : 1777341.1/99

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -474.499 ± 4.794 χ^2/NDF : 946.4/6

Left Out: -393.871 ± 1.897 χ^2/NDF : 3772.8/24

Right Out: -536.154 ± 3.375 χ^2/NDF : 2911.7/8

Left In: -408.696 ± 1.979 χ^2/NDF : 3062.9/22

Left: -400.970 ± 1.369 χ^2/NDF : 6864.9/47

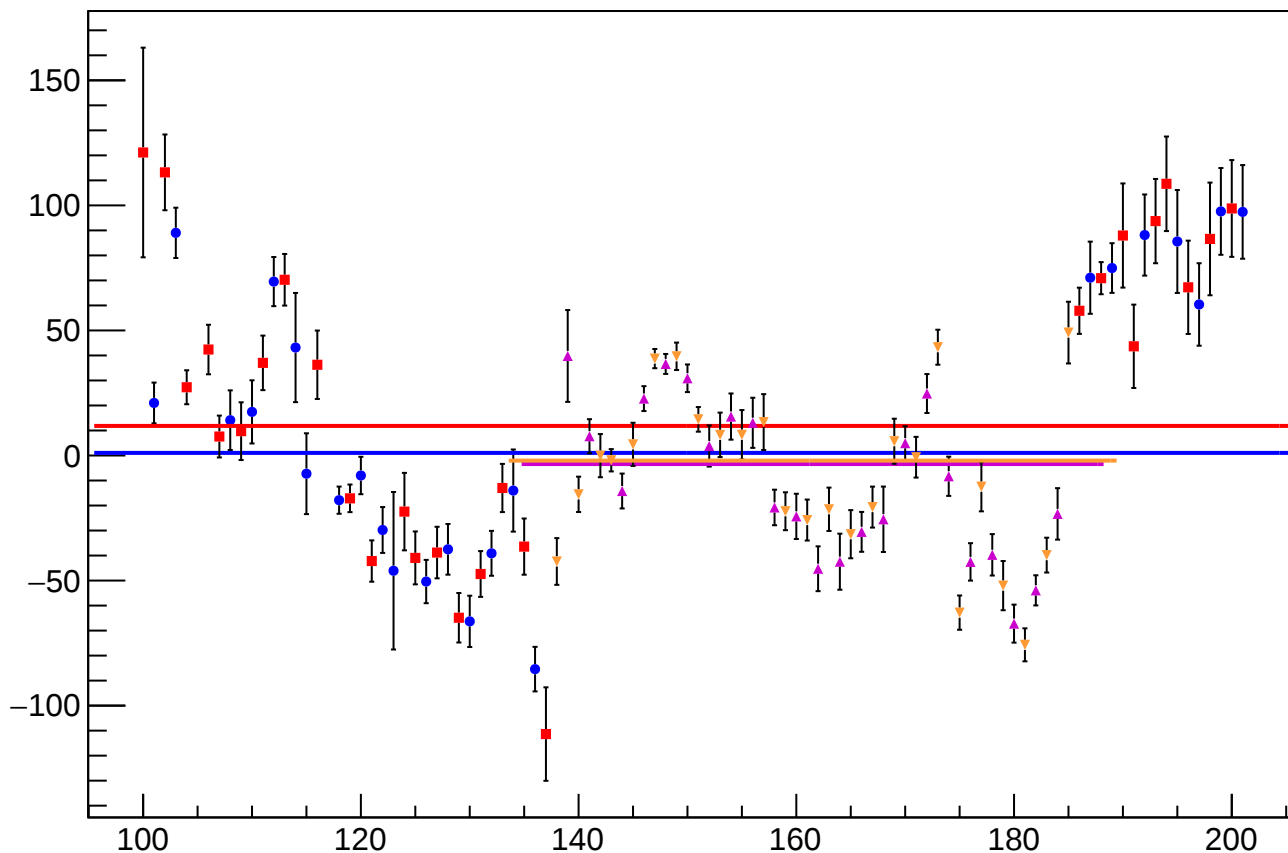
Right: -515.722 ± 2.760 χ^2/NDF : 3968.7/15

In: -418.275 ± 1.829 χ^2/NDF : 4170.2/29

Out: -428.025 ± 1.654 χ^2/NDF : 8034.9/33

All: -423.640 ± 1.227 χ^2/NDF : 12220.7/63

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.048 ± 2.174 χ^2/NDF : 568.3/23

Left Out: -2.037 ± 1.424 χ^2/NDF : 563.8/24

Right Out: 11.831 ± 1.995 χ^2/NDF : 618.2/27

Left In: -3.420 ± 1.520 χ^2/NDF : 451.0/22

Left: -2.683 ± 1.039 χ^2/NDF : 1015.2/47

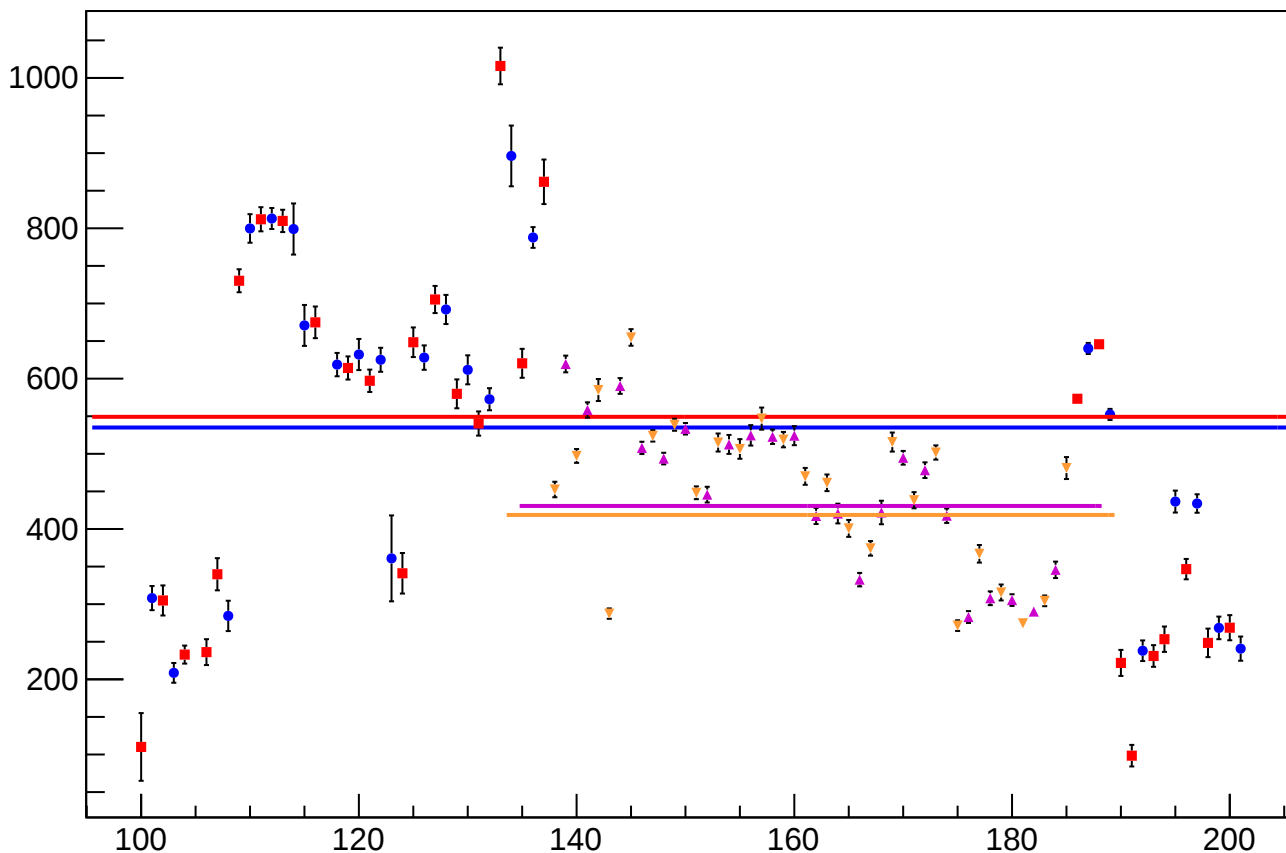
Right: 6.902 ± 1.470 χ^2/NDF : 1199.9/51

In: -1.953 ± 1.246 χ^2/NDF : 1022.1/46

Out: 2.644 ± 1.159 χ^2/NDF : 1214.0/52

All: 0.511 ± 0.849 χ^2/NDF : 2243.4/99

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 535.002 ± 2.959 χ^2/NDF : 3712.1/23

Left Out: 418.680 ± 1.905 χ^2/NDF : 3296.5/24

Right Out: 549.204 ± 2.307 χ^2/NDF : 6395.7/27

Left In: 430.640 ± 1.971 χ^2/NDF : 2850.6/22

Left: 424.457 ± 1.370 χ^2/NDF : 6166.1/47

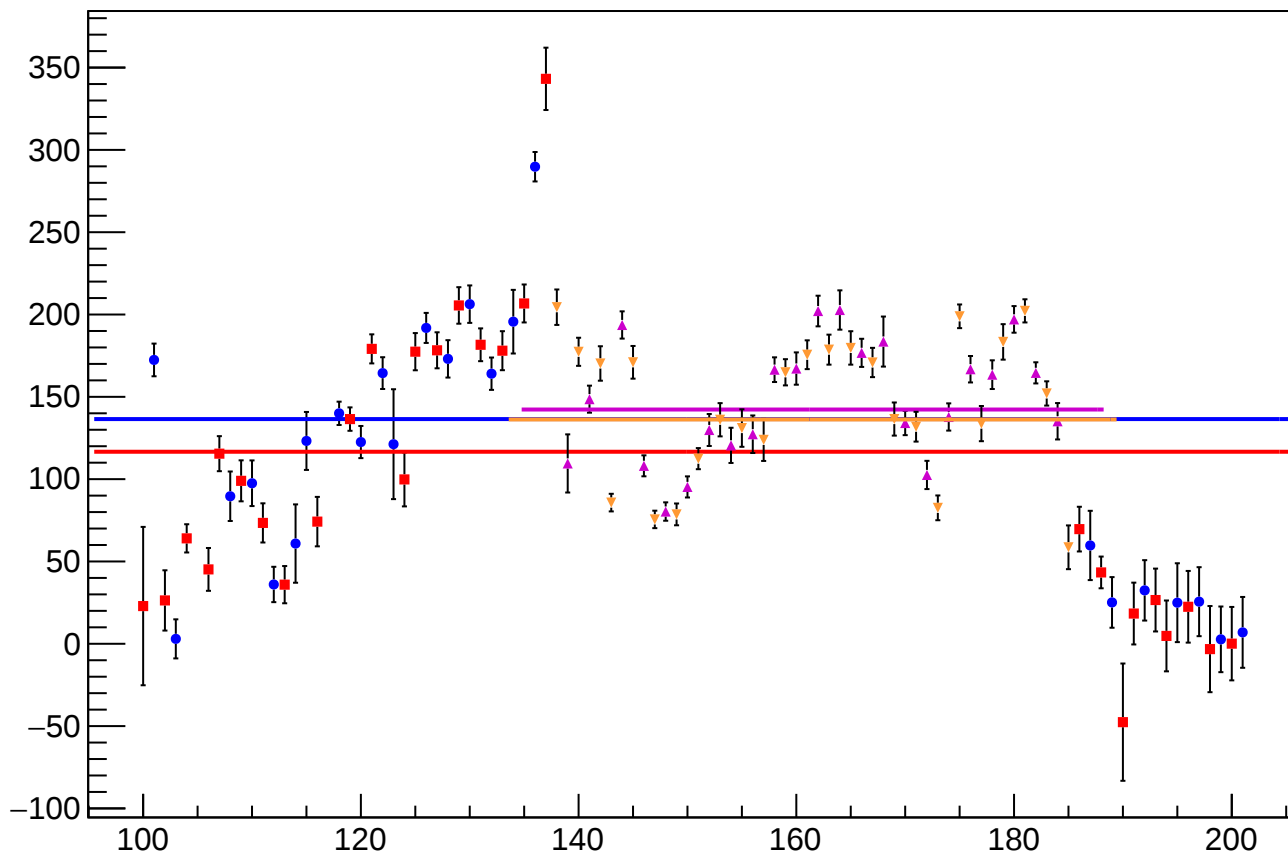
Right: 543.836 ± 1.819 χ^2/NDF : 10122.1/51

In: 462.707 ± 1.640 χ^2/NDF : 7424.3/46

Out: 471.600 ± 1.469 χ^2/NDF : 11595.7/52

All: 467.642 ± 1.094 χ^2/NDF : 19036.4/99

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 136.491 $\pm$ 2.550 χ^2 /NDF: 891.1/23

Left Out: 136.258 $\pm$ 1.651 χ^2 /NDF: 758.3/24

Right Out: 116.647 $\pm$ 2.384 χ^2 /NDF: 862.4/27

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

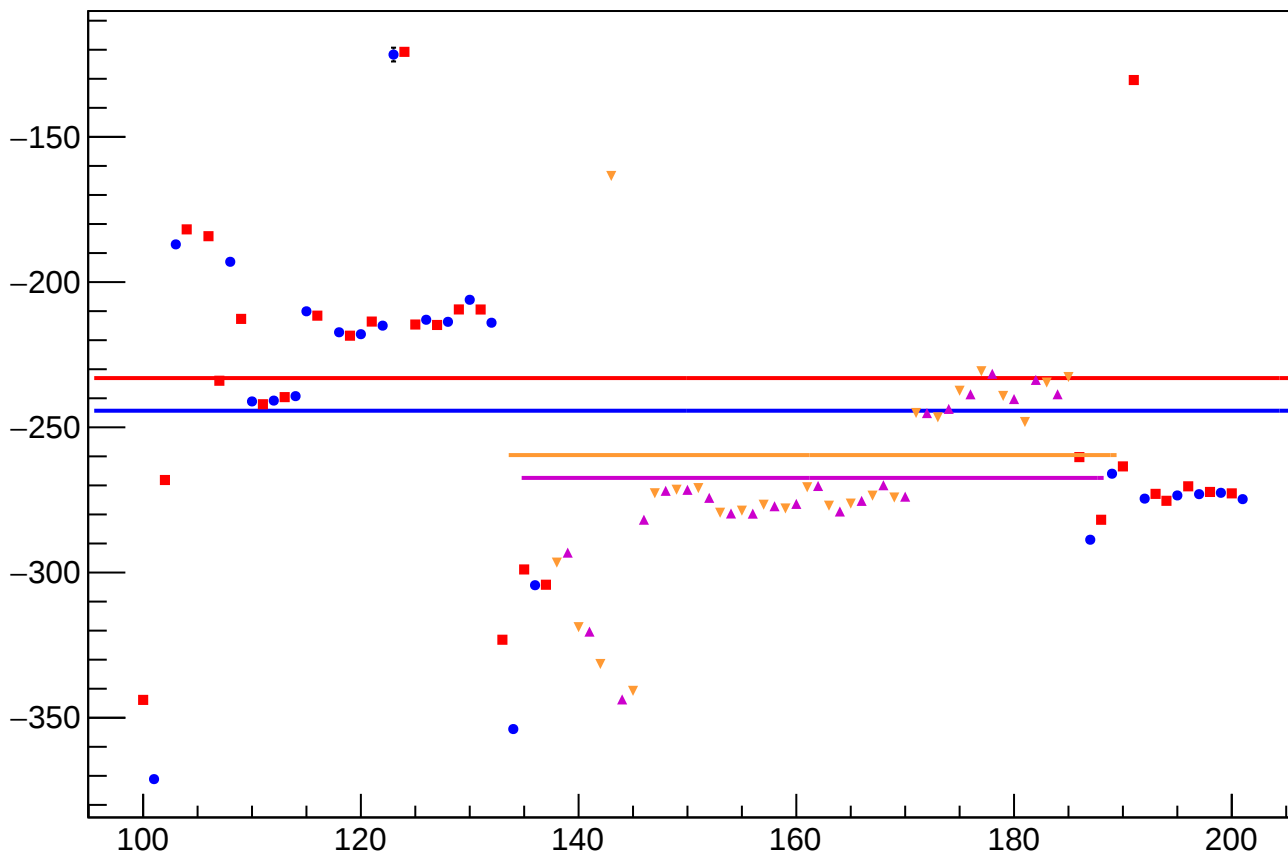
Right: 125.901 $\pm$ 1.741 χ^2 /NDF: 1785.8/51

In: 140.445 $\pm$ 1.440 χ^2 /NDF: 1354.4/46

Out: 129.900 $\pm$ 1.357 χ^2 /NDF: 1666.4/52

All: 134.861 $\pm$ 0.988 χ^2 /NDF: 3049.3/99

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -244.285+/-0.129 χ^2/NDF : 162352.0/23

Left Out: -259.557+/-0.079 χ^2/NDF :238235.2/24

Right Out: -233.046+/-0.119 χ^2/NDF : 170145.0/27

Left In: -267.417+/-0.082 χ^2/NDF :98035.5/22

Left: -263.361+/-0.057 χ^2/NDF : 341051.4/47

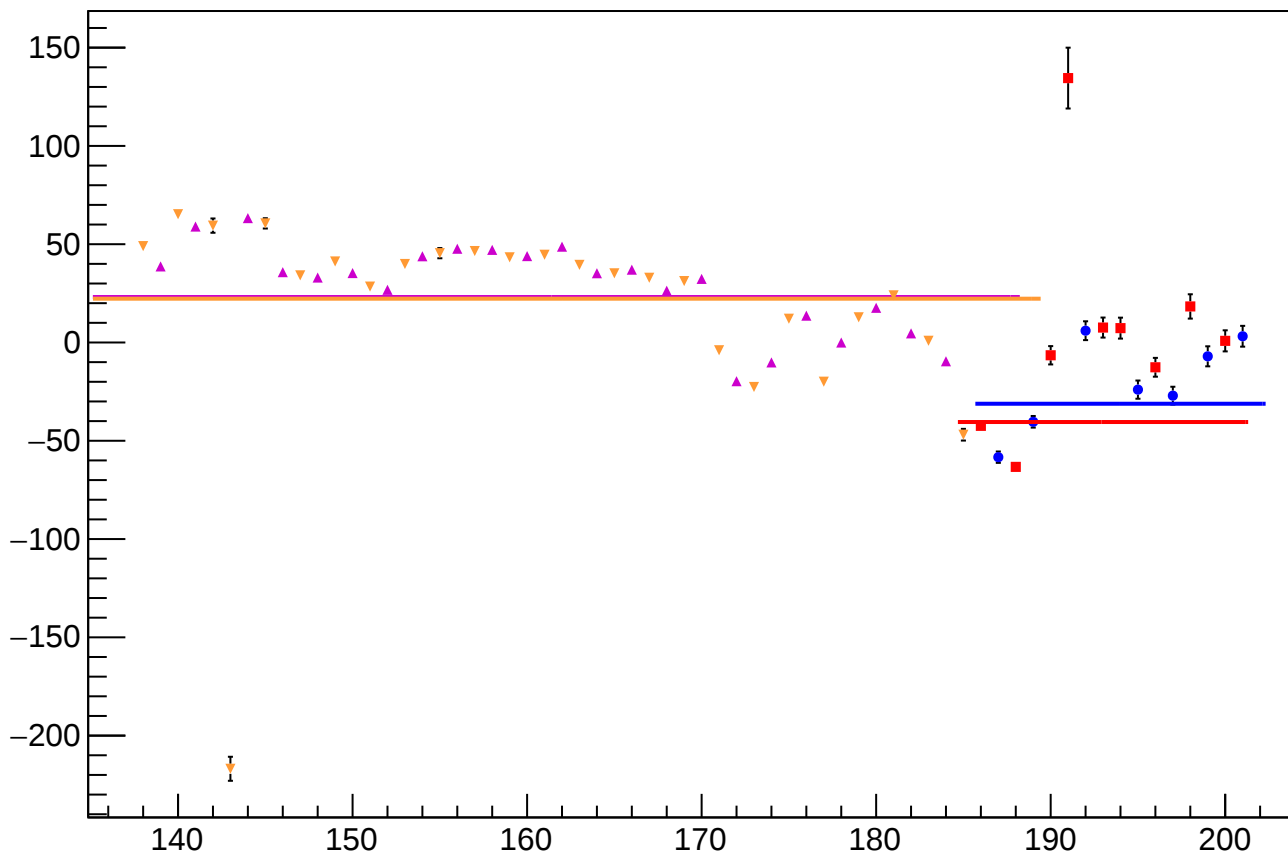
Right: -238.185+/-0.087 χ^2/NDF : 336606.4/51

In: -260.811+/-0.069 χ^2/NDF :283297.9/46

Out: -251.392+/-0.066 χ^2/NDF :442984.5/52

All: -255.875+/-0.048 χ^2/NDF : 736037.3/99

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.164 ± 1.495 $\chi^2/\text{NDF}: 226.1/6$

Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$

Right Out: -40.461 ± 1.017 $\chi^2/\text{NDF}: 748.7/8$

Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$

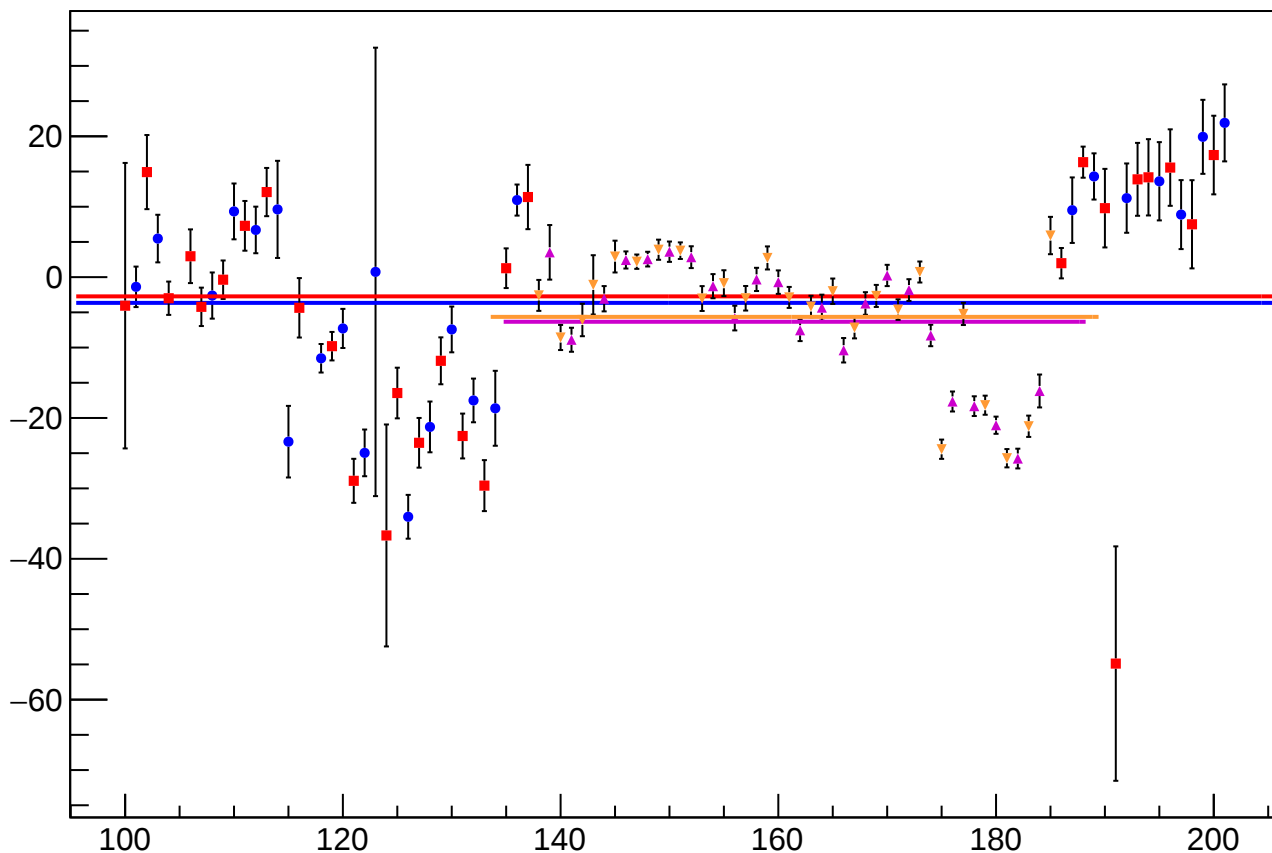
Right: -37.521 ± 0.841 $\chi^2/\text{NDF}: 1001.3/15$

In: 19.485 ± 0.388 $\chi^2/\text{NDF}: 4201.2/29$

Out: 13.916 ± 0.371 $\chi^2/\text{NDF}: 9219.5/33$

All: 16.580 ± 0.268 $\chi^2/\text{NDF}: 13528.2/63$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.654 ± 0.721 χ^2/NDF : 402.9/23

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -2.731 ± 0.653 χ^2/NDF : 431.9/27

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

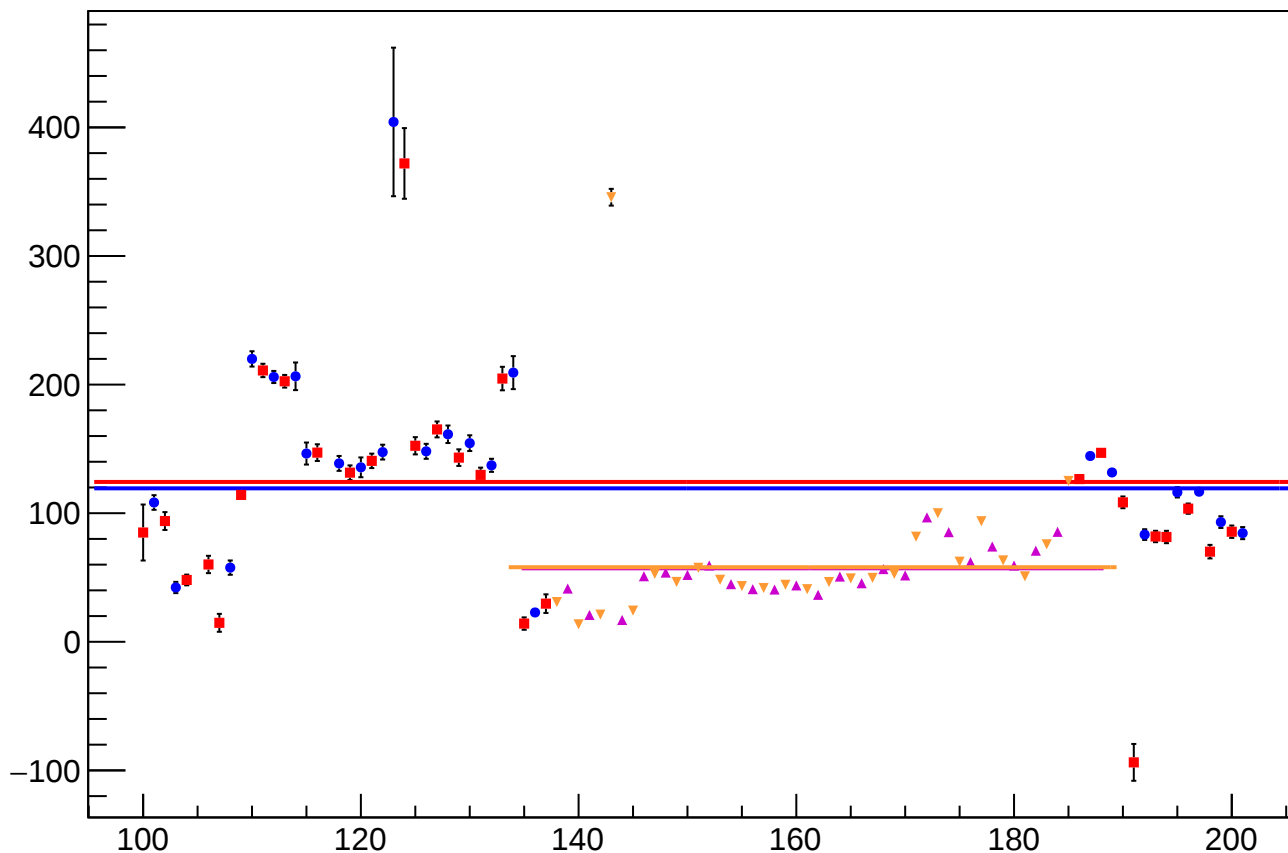
Right: -3.147 ± 0.484 χ^2/NDF : 835.7/51

In: -5.892 ± 0.293 χ^2/NDF : 1197.4/46

Out: -5.092 ± 0.284 χ^2/NDF : 1341.7/52

All: -5.479 ± 0.204 χ^2/NDF : 2543.0/99

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 119.325 $\pm$ 0.944 χ^2 /NDF: 2462.1/23

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 124.305 $\pm$ 0.713 χ^2 /NDF: 3115.3/27

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

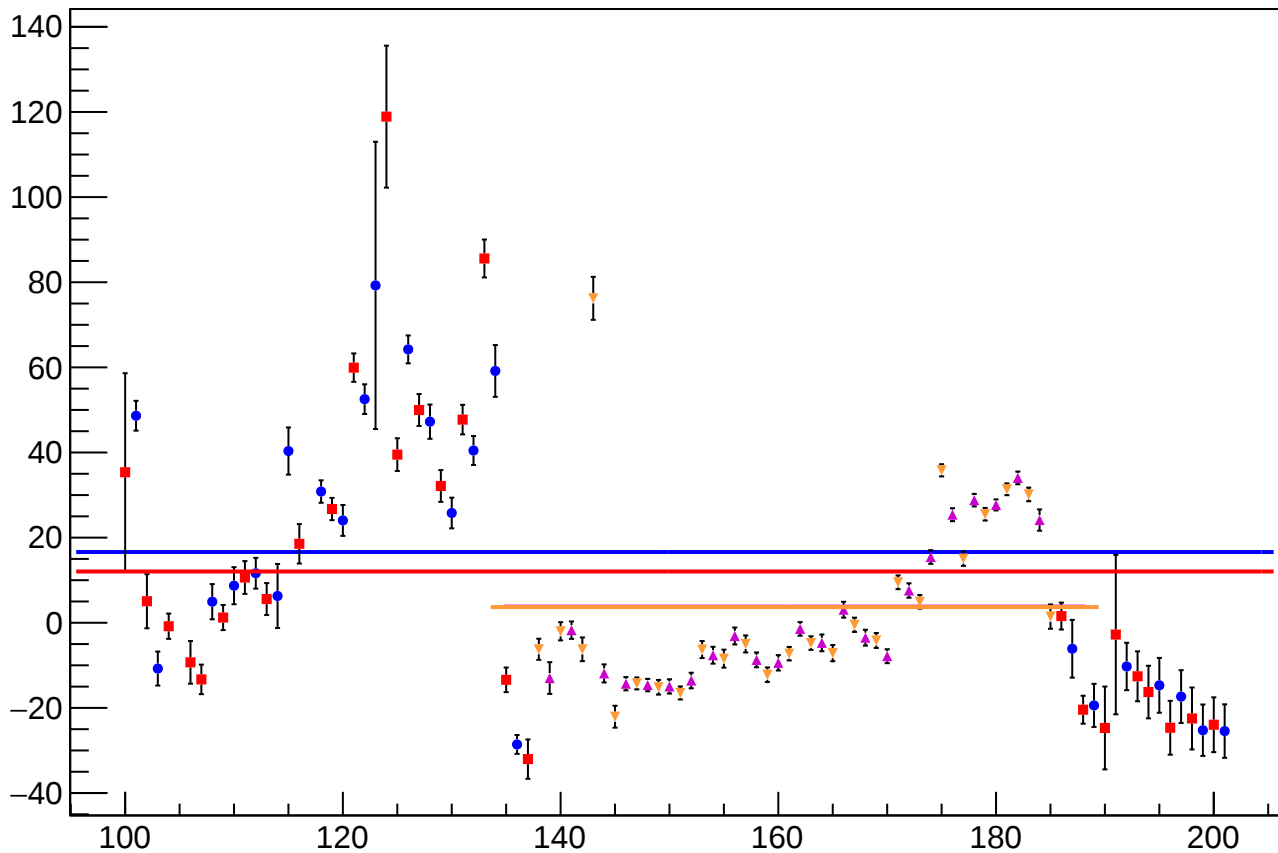
Right: 122.497 $\pm$ 0.569 χ^2 /NDF: 5595.1/51

In: 66.587 $\pm$ 0.368 χ^2 /NDF:7945.8/46

Out: 73.753 $\pm$ 0.347 χ^2 /NDF:14352.1/52

All: 70.375 $\pm$ 0.253 χ^2 /NDF: 22498.4/99

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 16.618 $\pm$ 0.836 χ^2 /NDF: 1328.3/23

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF: 2541.7/24

Right Out: 12.044 $\pm$ 0.780 χ^2 /NDF: 1369.4/27

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

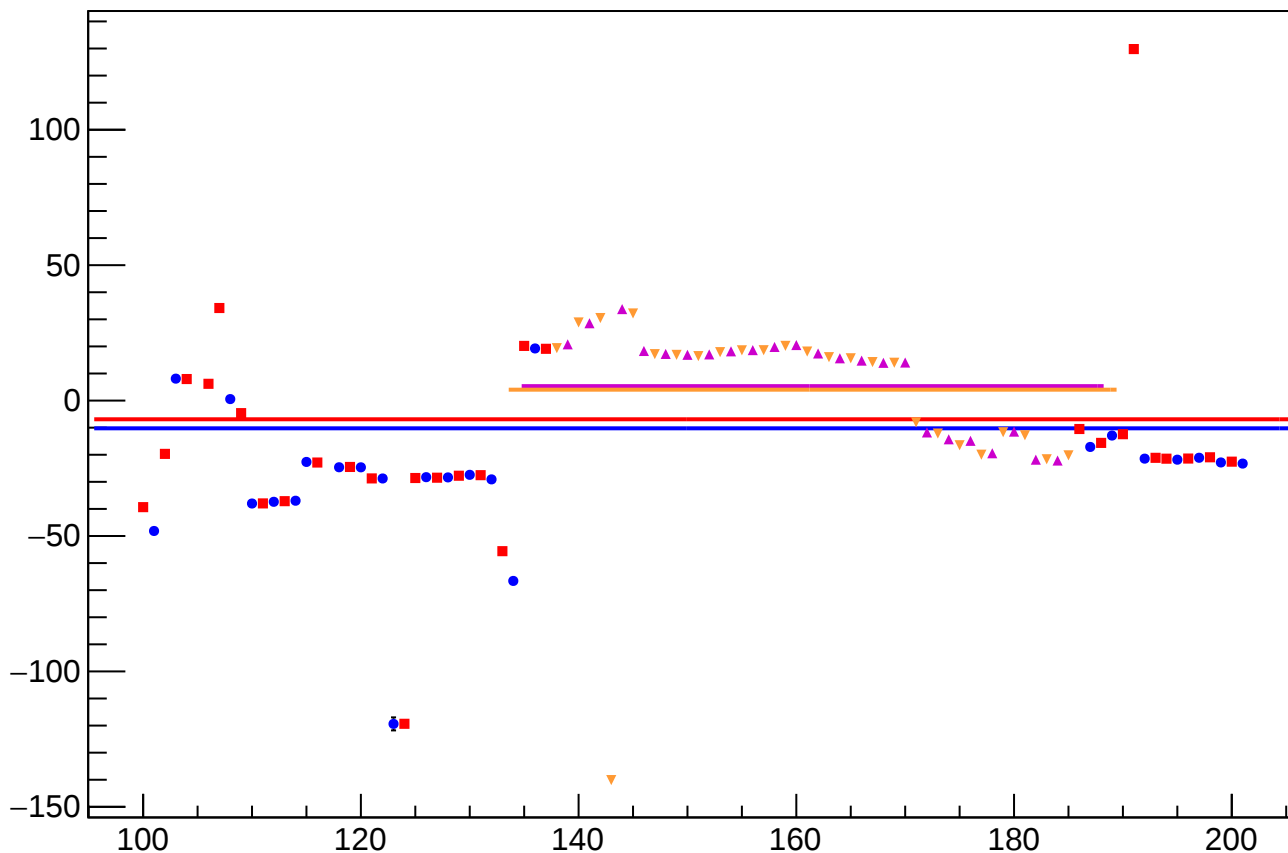
Right: 14.172 $\pm$ 0.570 χ^2 /NDF: 2713.8/51

In: 5.808 $\pm$ 0.332 χ^2 /NDF: 3725.5/46

Out: 5.130 $\pm$ 0.324 χ^2 /NDF: 4006.1/52

All: 5.461 $\pm$ 0.232 χ^2 /NDF: 7733.7/99

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -10.241 ± 0.040 χ^2/NDF : 292539.6/23

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -6.903 ± 0.038 χ^2/NDF : 376809.5/27

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

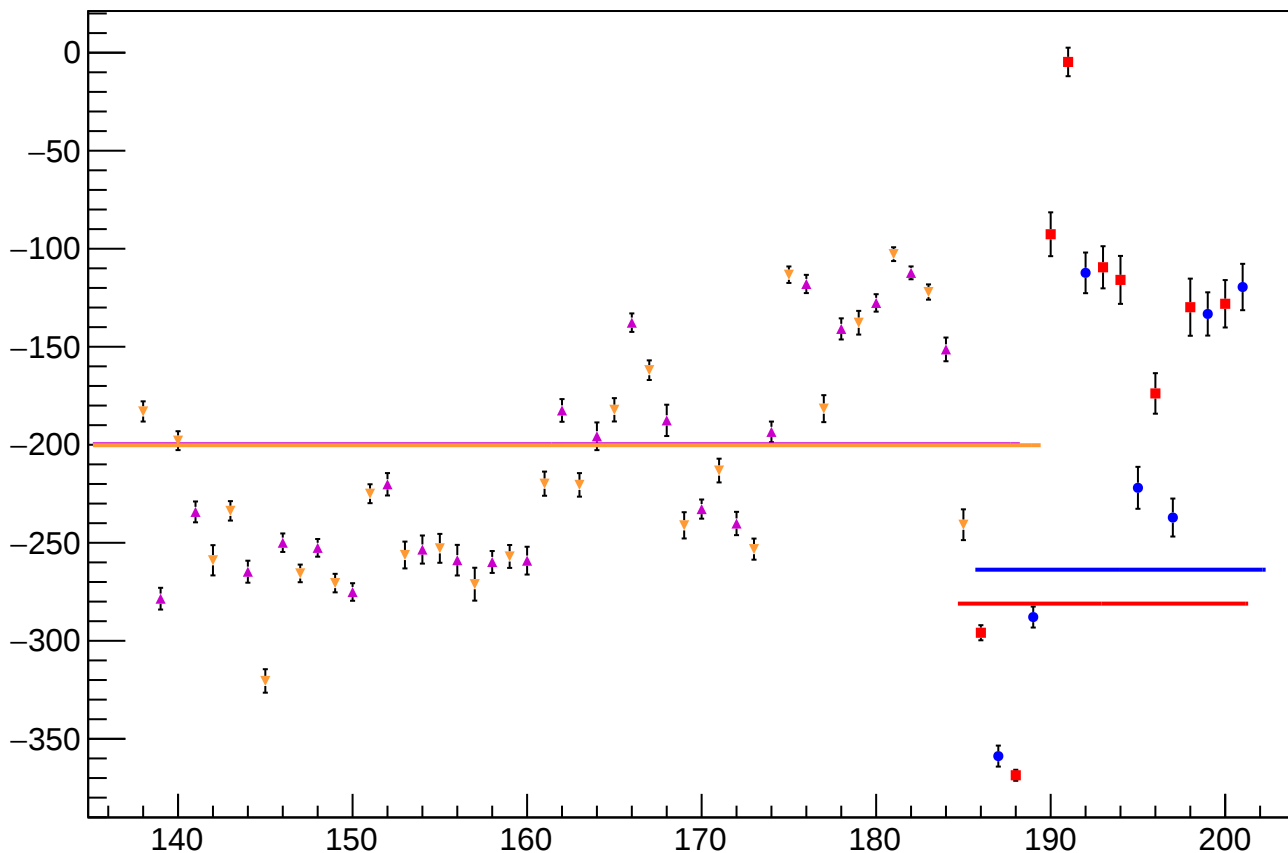
Right: -8.508 ± 0.027 χ^2/NDF : 673029.7/51

In: 3.053 ± 0.015 χ^2/NDF : 1502139.5/46

Out: 2.328 ± 0.015 χ^2/NDF : 1829232.3/52

All: 2.687 ± 0.011 χ^2/NDF : 3332523.0/99

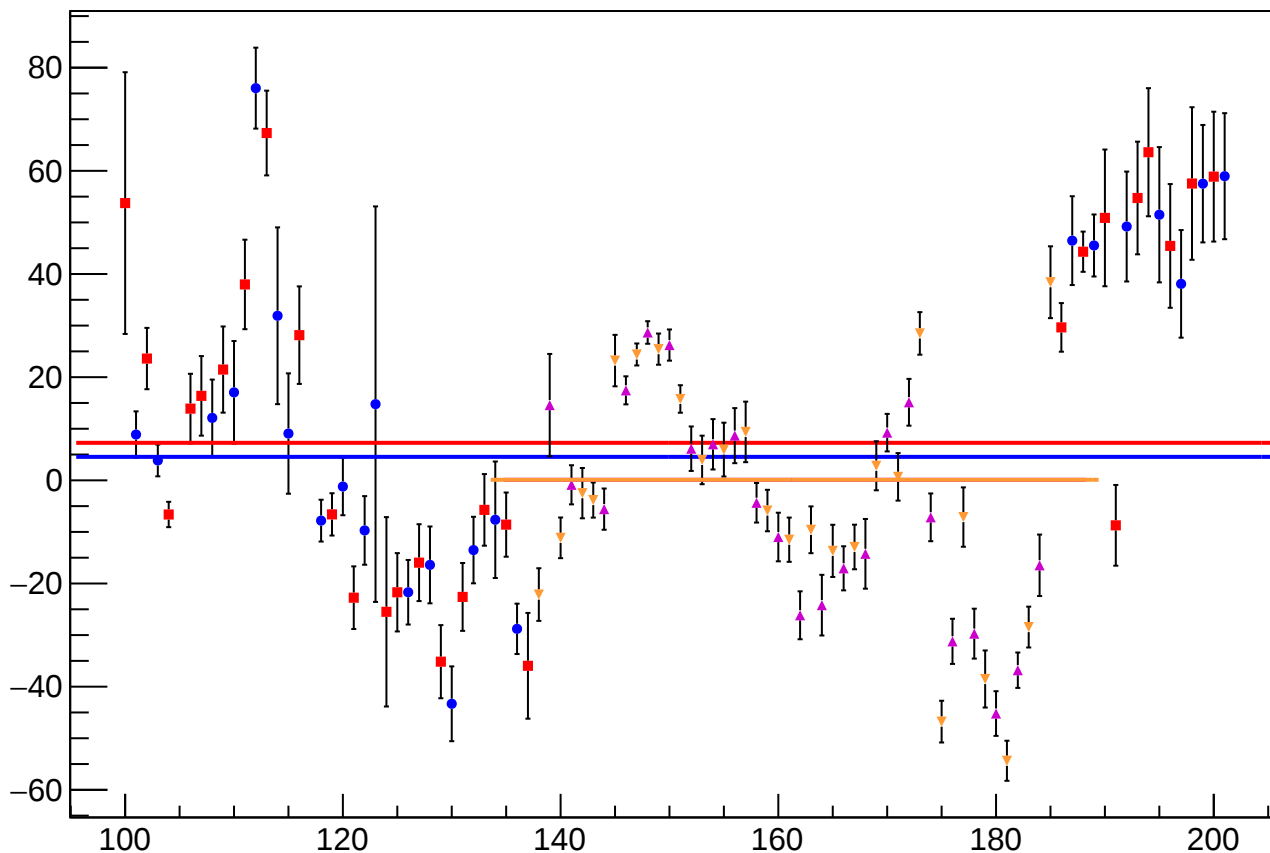
reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -263.723 ± 2.964 $\chi^2/\text{NDF}: 859.9/6$
 Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$
 Right Out: -281.030 ± 1.973 $\chi^2/\text{NDF}: 3521.5/8$
 Left In: -199.739 ± 1.097 $\chi^2/\text{NDF}: 2968.0/22$

Left: -199.988 ± 0.769 $\chi^2/\text{NDF}: 6193.2/47$
 Right: -275.714 ± 1.642 $\chi^2/\text{NDF}: 4405.1/15$
 In: -207.454 ± 1.029 $\chi^2/\text{NDF}: 4237.8/29$
 Out: -218.797 ± 0.946 $\chi^2/\text{NDF}: 8038.0/33$
 All: -213.602 ± 0.696 $\chi^2/\text{NDF}: 12341.7/63$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.551 $\pm$ 1.358 χ^2 /NDF: 381.5/23

Left Out: 0.109 $\pm$ 0.807 χ^2 /NDF:831.2/24

Right Out: 7.273 $\pm$ 1.215 χ^2 /NDF: 472.4/27

Left In: 0.097 $\pm$ 0.838 χ^2 /NDF:715.5/22

Left: 0.103 $\pm$ 0.581 χ^2 /NDF: 1546.7/47

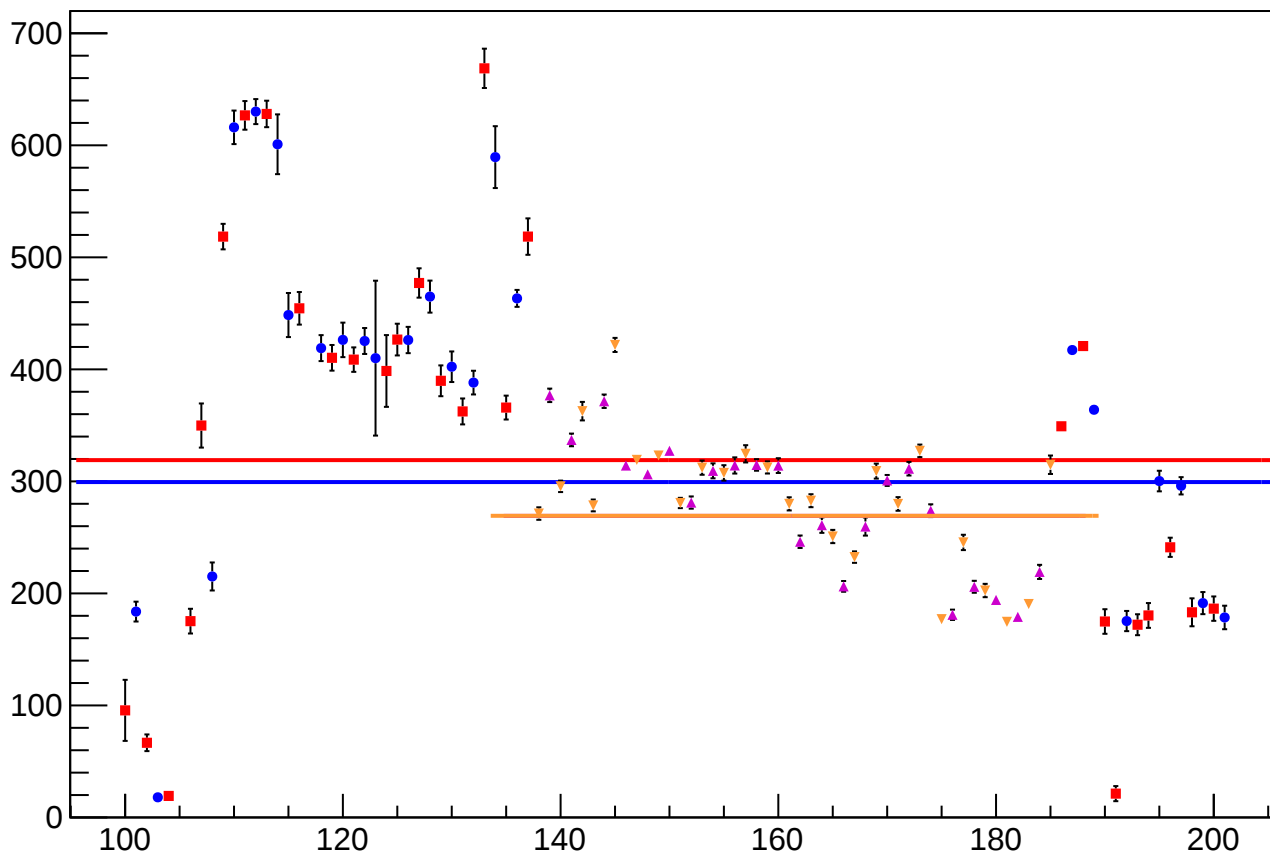
Right: 6.062 $\pm$ 0.905 χ^2 /NDF: 856.1/51

In: 1.326 $\pm$ 0.713 χ^2 /NDF:1104.7/46

Out: 2.302 $\pm$ 0.672 χ^2 /NDF:1327.8/52

All: 1.843 $\pm$ 0.489 χ^2 /NDF: 2433.5/99

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 299.396 $\pm$ 1.758 χ^2 /NDF: 9176.1/23

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 318.981 $\pm$ 1.354 χ^2 /NDF: 13756.5/27

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

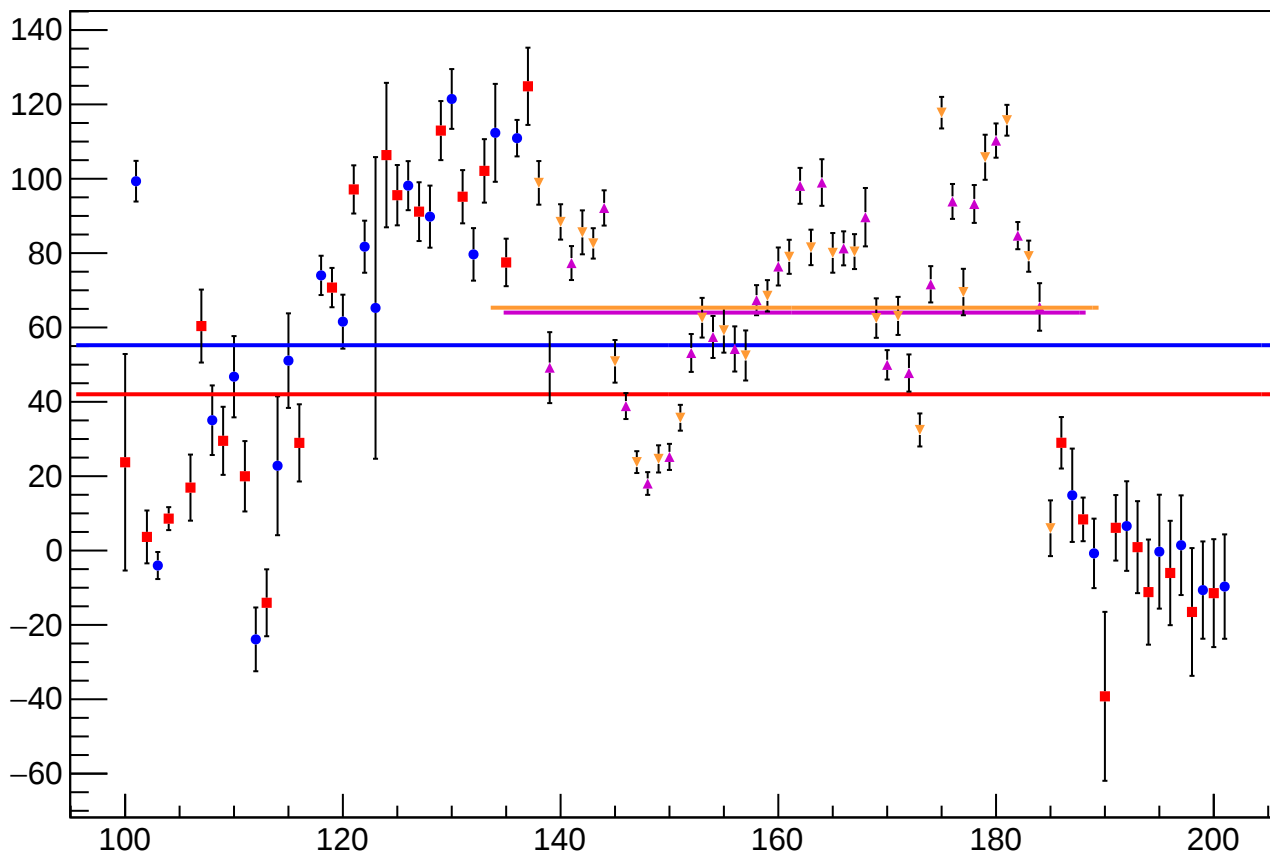
Right: 311.690 $\pm$ 1.073 χ^2 /NDF: 23010.4/51

In: 277.584 $\pm$ 0.927 χ^2 /NDF:12559.4/46

Out: 288.555 $\pm$ 0.843 χ^2 /NDF:17728.3/52

All: 283.587 $\pm$ 0.624 χ^2 /NDF: 30364.3/99

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 55.227 $\pm$ 1.596 χ^2 /NDF: 877.1/23

Left Out: 65.323 $\pm$ 0.935 χ^2 /NDF:1007.1/24

Right Out: 42.033 $\pm$ 1.475 χ^2 /NDF: 807.8/27

Left In: 63.999 $\pm$ 0.963 χ^2 /NDF:799.5/22

Left: 64.681 $\pm$ 0.671 χ^2 /NDF: 1807.5/47

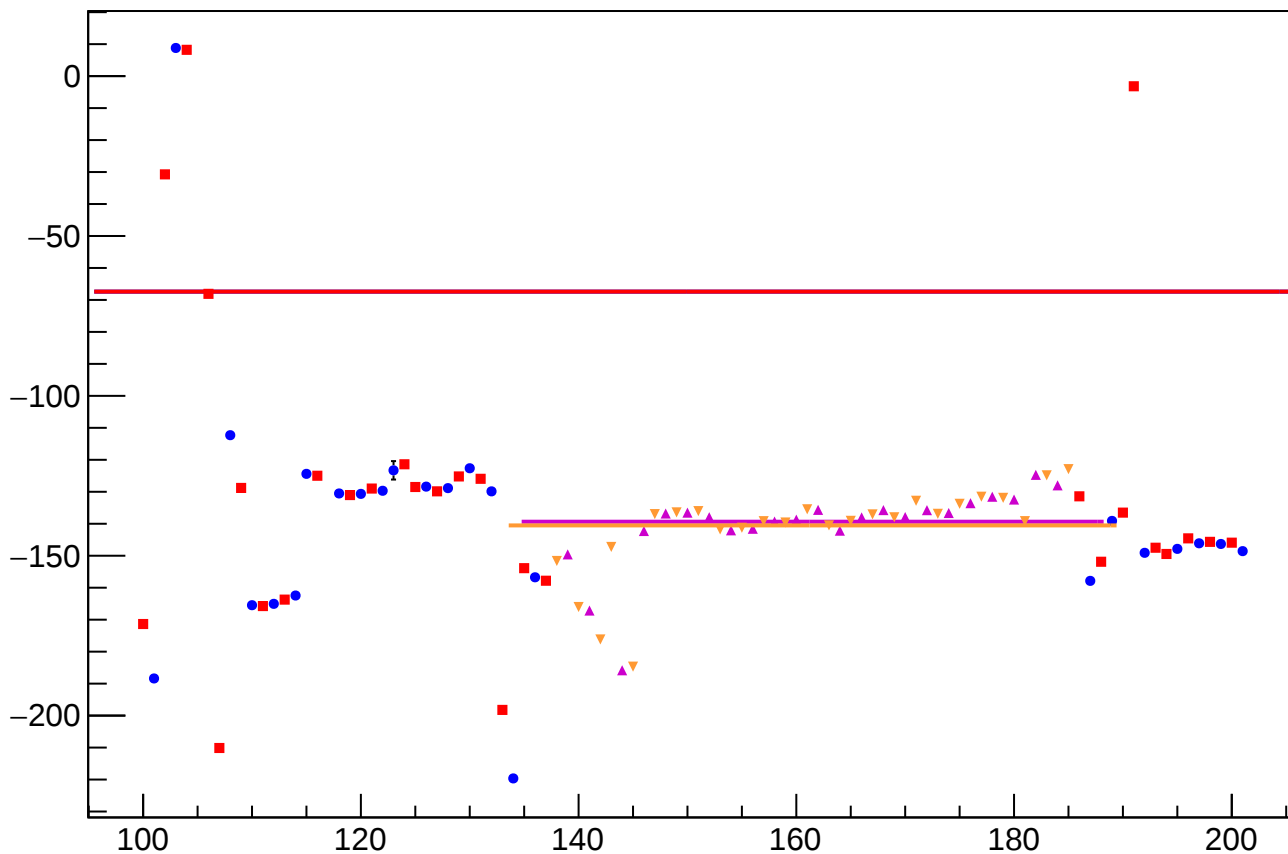
Right: 48.114 $\pm$ 1.083 χ^2 /NDF: 1721.7/51

In: 61.658 $\pm$ 0.824 χ^2 /NDF:1698.7/46

Out: 58.653 $\pm$ 0.790 χ^2 /NDF:1992.7/52

All: 60.090 $\pm$ 0.570 χ^2 /NDF: 3698.3/99

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -67.405 ± 0.065 $\chi^2/\text{NDF}: 1493817.4/23$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -67.391 ± 0.063 $\chi^2/\text{NDF}: 1336734.6/27$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

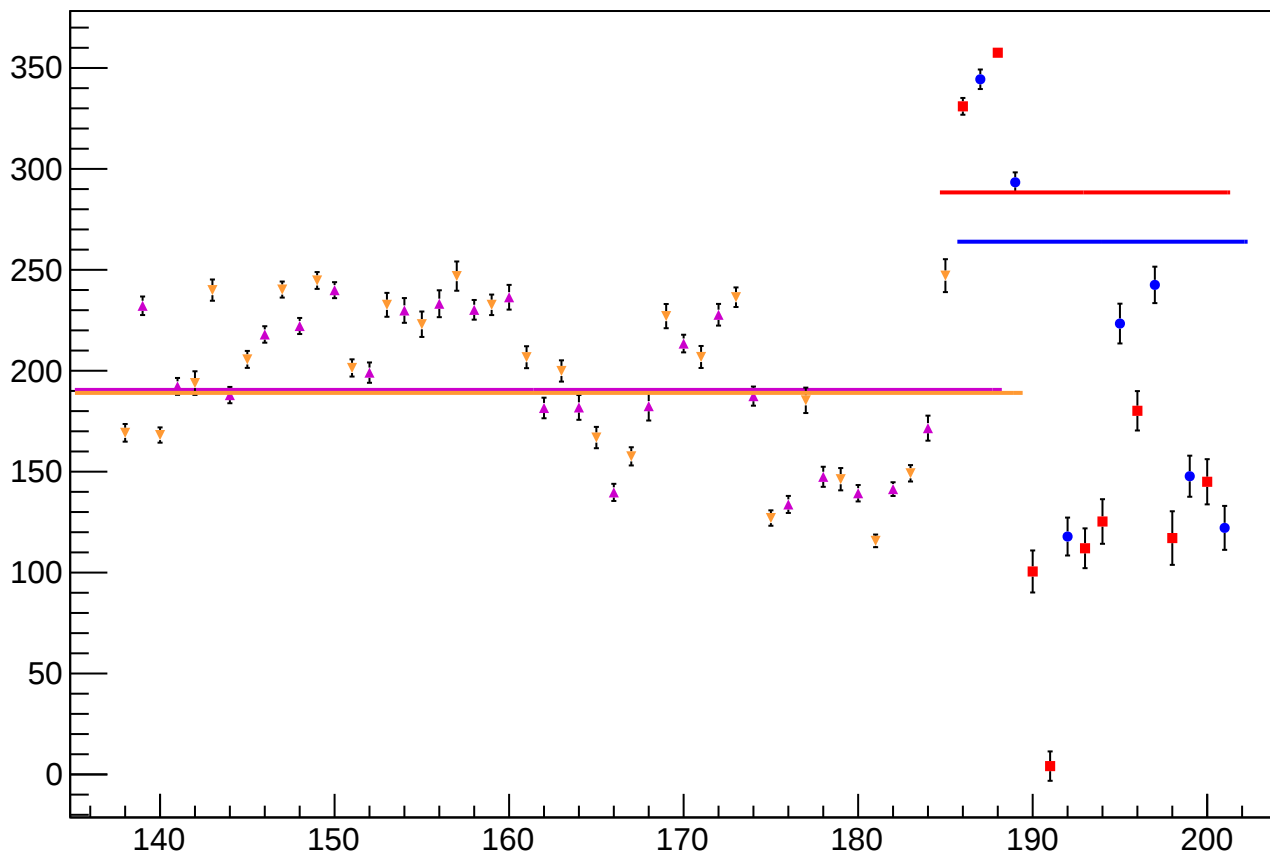
Right: -67.398 ± 0.045 $\chi^2/\text{NDF}: 2830552.0/51$

In: -115.988 ± 0.037 $\chi^2/\text{NDF}: 2386403.6/46$

Out: -116.022 ± 0.036 $\chi^2/\text{NDF}: 2316684.9/52$

All: -116.005 ± 0.026 $\chi^2/\text{NDF}: 4703088.9/99$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 263.937 ± 2.711 $\chi^2/\text{NDF}: 876.6/6$

Left Out: 189.030 ± 0.956 $\chi^2/\text{NDF}: 1980.9/24$

Right Out: 288.349 ± 1.863 $\chi^2/\text{NDF}: 3709.3/8$

Left In: 190.506 ± 0.975 $\chi^2/\text{NDF}: 1412.7/22$

Left: 189.753 ± 0.683 $\chi^2/\text{NDF}: 3394.8/47$

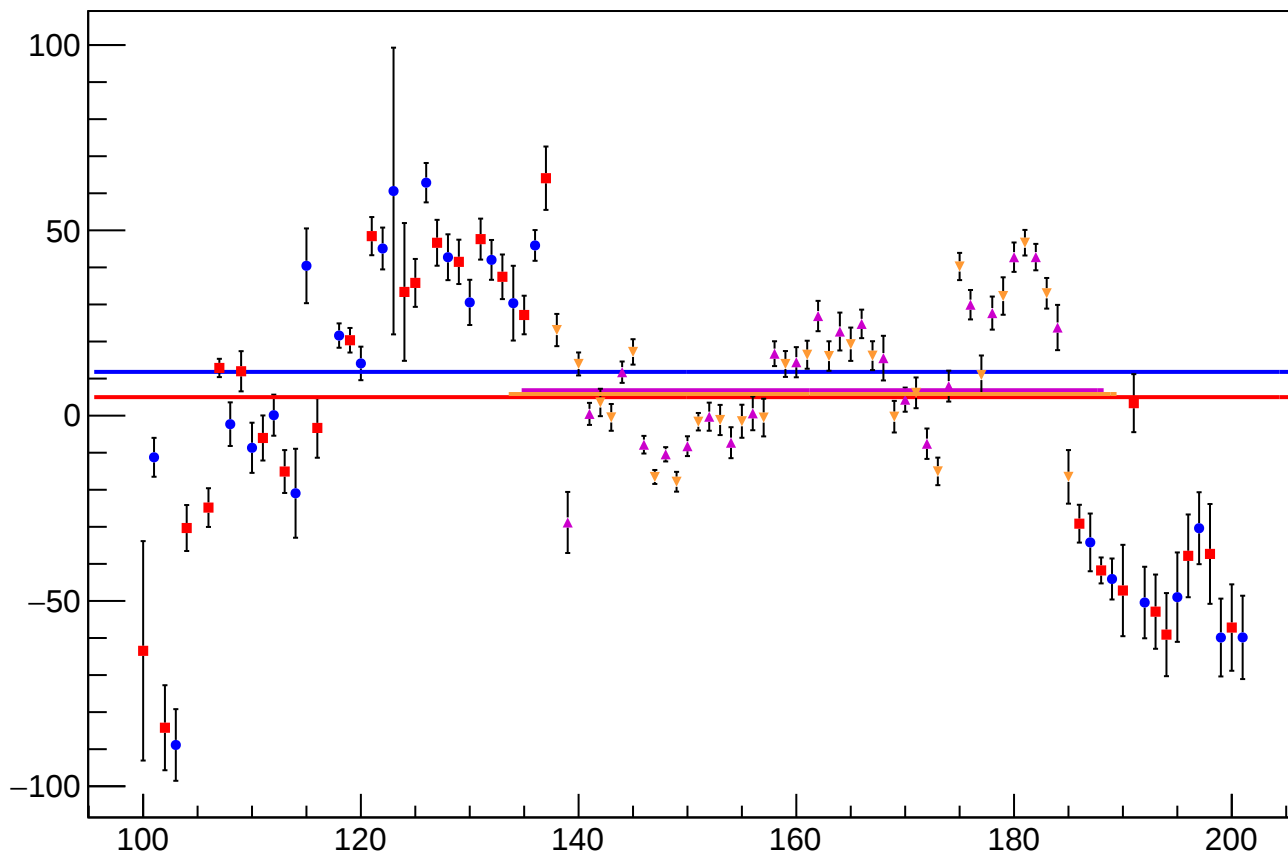
Right: 280.515 ± 1.536 $\chi^2/\text{NDF}: 4641.0/15$

In: 198.919 ± 0.918 $\chi^2/\text{NDF}: 2939.1/29$

Out: 209.719 ± 0.851 $\chi^2/\text{NDF}: 7939.2/33$

All: 204.728 ± 0.624 $\chi^2/\text{NDF}: 10952.8/63$

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.805 $\pm$ 1.285 χ^2 /NDF: 747.6/23

Left Out: 5.834 $\pm$ 0.712 χ^2 /NDF:652.2/24

Right Out: 4.994 $\pm$ 1.088 χ^2 /NDF: 873.9/27

Left In: 6.862 $\pm$ 0.736 χ^2 /NDF:522.7/22

Left: 6.331 $\pm$ 0.512 χ^2 /NDF: 1176.0/47

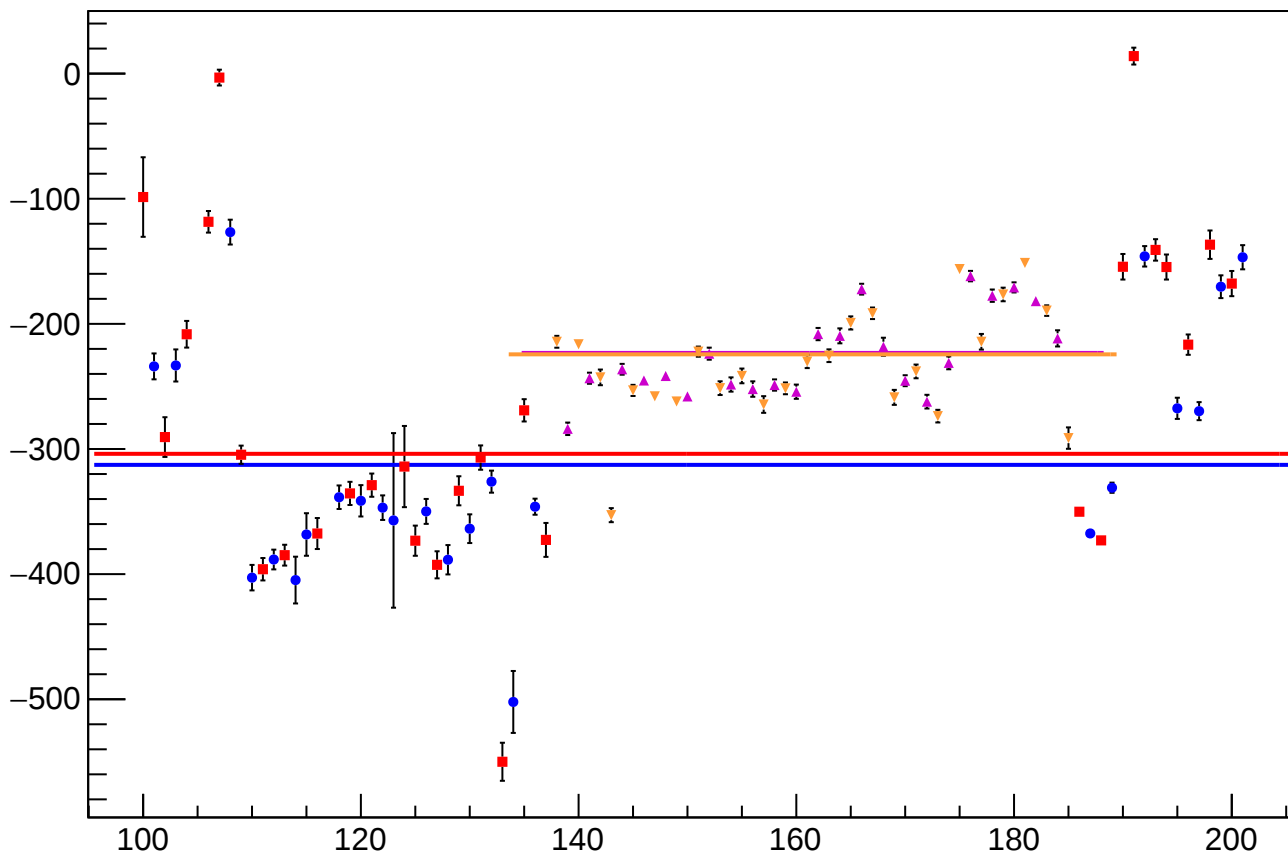
Right: 7.840 $\pm$ 0.830 χ^2 /NDF: 1637.8/51

In: 8.084 $\pm$ 0.639 χ^2 /NDF:1281.5/46

Out: 5.582 $\pm$ 0.596 χ^2 /NDF:1526.5/52

All: 6.747 $\pm$ 0.436 χ^2 /NDF: 2816.2/99

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -312.685 ± 1.705 χ^2/NDF : 2071.4/23

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -303.857 ± 1.280 χ^2/NDF : 8419.2/27

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

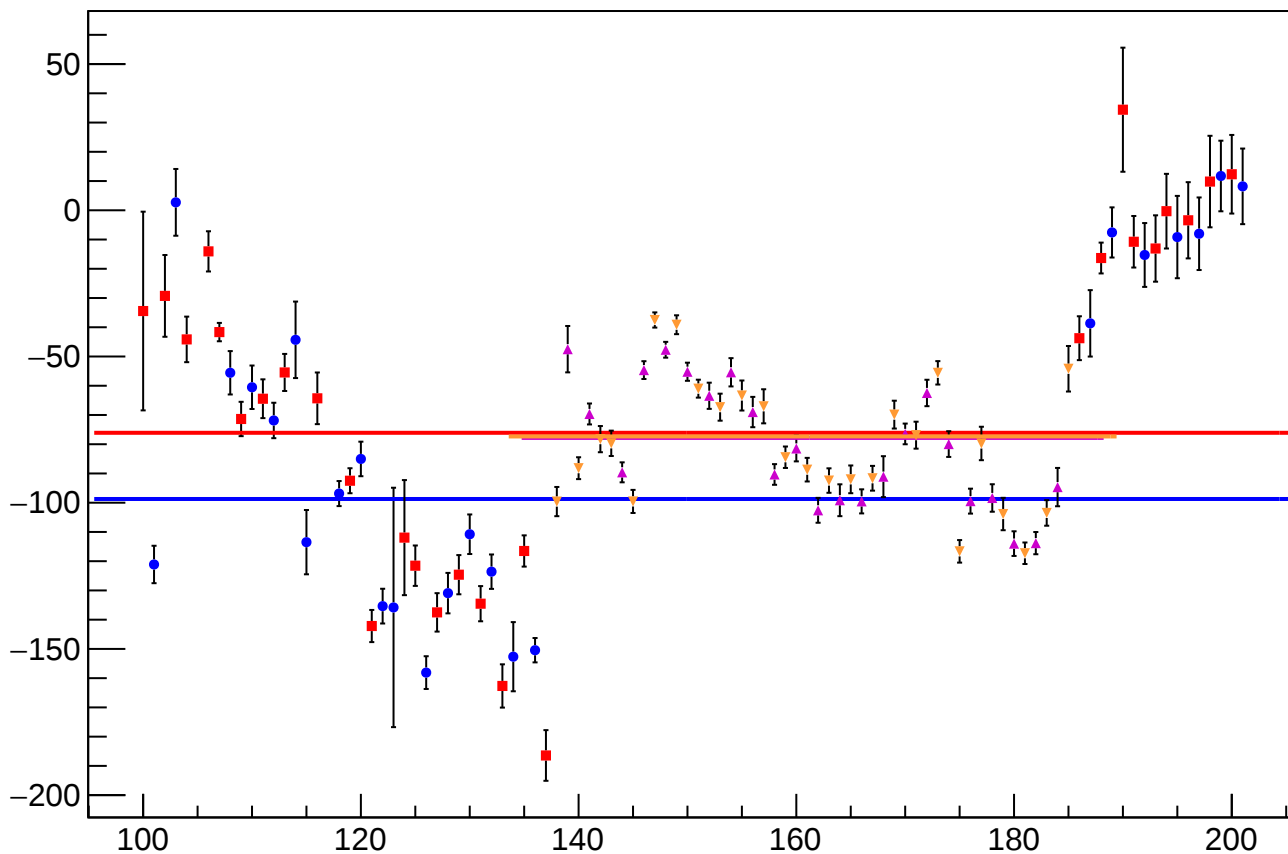
Right: -307.039 ± 1.023 χ^2/NDF : 10507.7/51

In: -245.077 ± 0.843 χ^2/NDF : 5422.1/46

Out: -252.841 ± 0.766 χ^2/NDF : 12999.2/52

All: -249.329 ± 0.567 χ^2/NDF : 18467.9/99

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -98.727 ± 1.500 $\chi^2/\text{NDF}: 1010.2/23$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -76.090 ± 1.309 $\chi^2/\text{NDF}: 1443.5/27$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

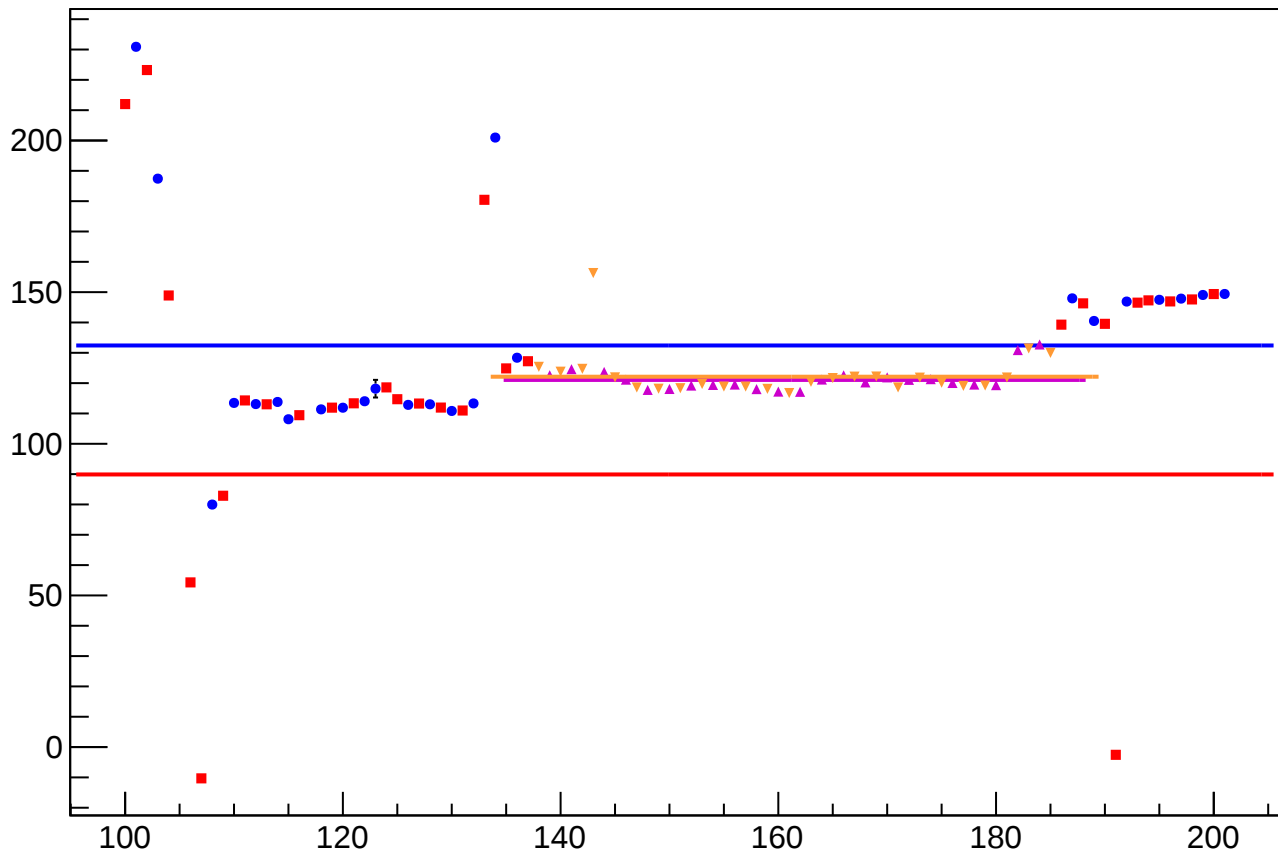
Right: -85.872 ± 0.986 $\chi^2/\text{NDF}: 2583.0/51$

In: -82.903 ± 0.739 $\chi^2/\text{NDF}: 1779.9/46$

Out: -76.986 ± 0.699 $\chi^2/\text{NDF}: 2290.4/52$

All: -79.781 ± 0.508 $\chi^2/\text{NDF}: 4104.1/99$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 132.417 $\pm$ 0.077 χ^2 /NDF: 200563.6/23

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 89.890 $\pm$ 0.064 χ^2 /NDF: 1083421.7/27

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

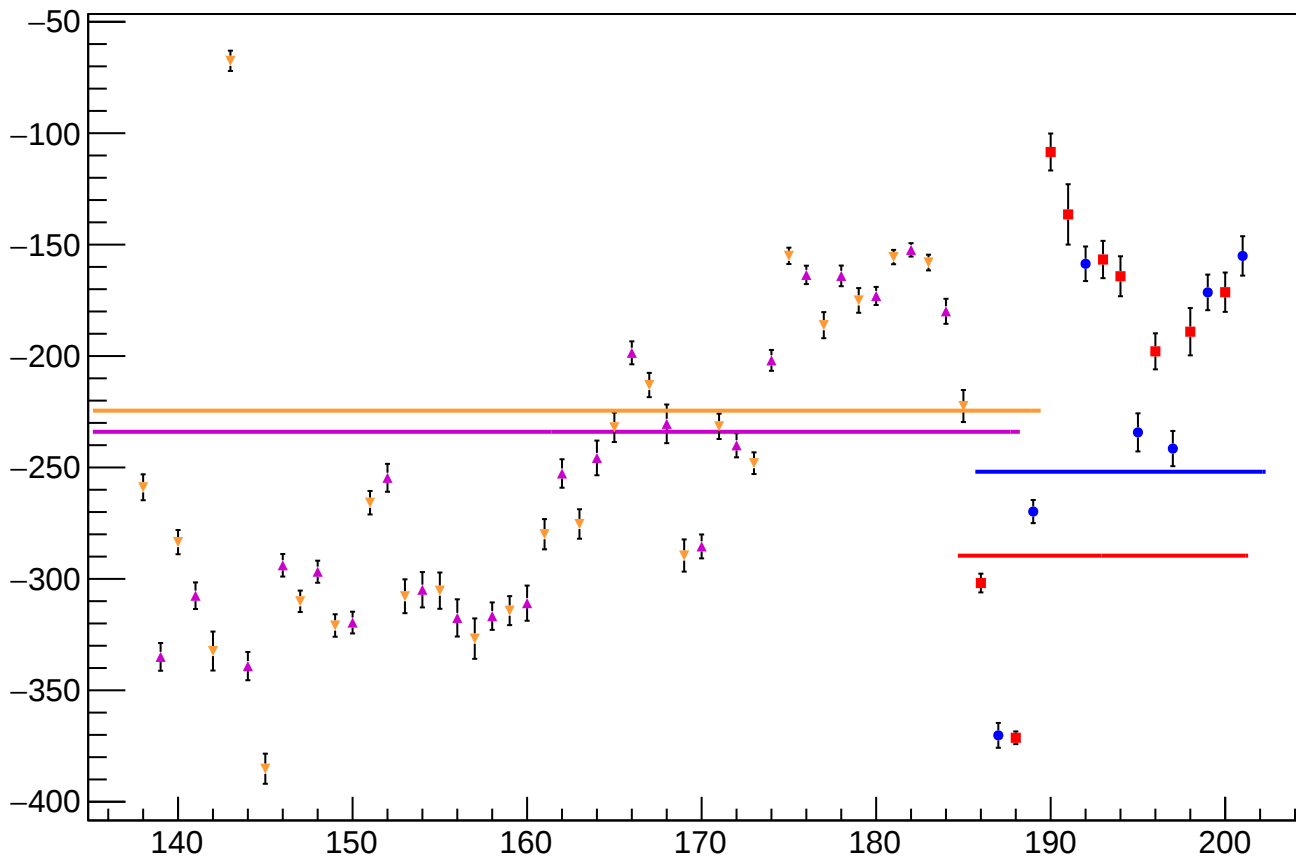
Right: 107.200 $\pm$ 0.049 χ^2 /NDF: 1463494.0/51

In: 123.430 $\pm$ 0.035 χ^2 /NDF:225587.2/46

Out: 113.265 $\pm$ 0.034 χ^2 /NDF:1297606.6/52

All: 118.086 $\pm$ 0.024 χ^2 /NDF: 1566695.2/99

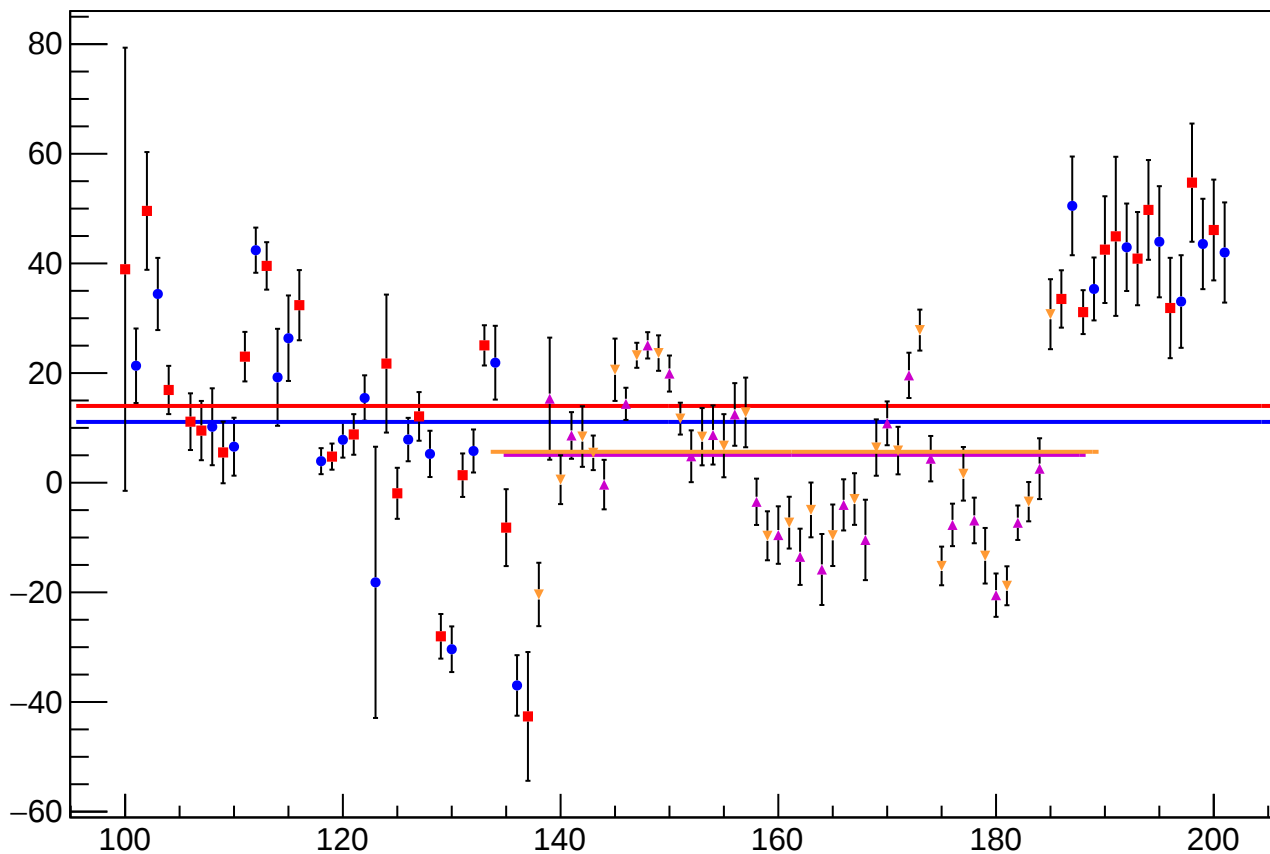
reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -251.915 ± 2.637 $\chi^2/\text{NDF}: 832.5/6$
 Left Out: -224.501 ± 1.079 $\chi^2/\text{NDF}: 4870.6/24$
 Right Out: -289.577 ± 1.949 $\chi^2/\text{NDF}: 2280.3/8$
 Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$
 Right: -276.270 ± 1.567 $\chi^2/\text{NDF}: 3244.7/15$
 In: -236.681 ± 1.022 $\chi^2/\text{NDF}: 4410.2/29$
 Out: -239.768 ± 0.944 $\chi^2/\text{NDF}: 8004.1/33$
 All: -238.346 ± 0.693 $\chi^2/\text{NDF}: 12419.2/63$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.088 $\pm$ 1.038 χ^2 /NDF: 369.8/23

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 14.002 $\pm$ 0.980 χ^2 /NDF: 351.5/27

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

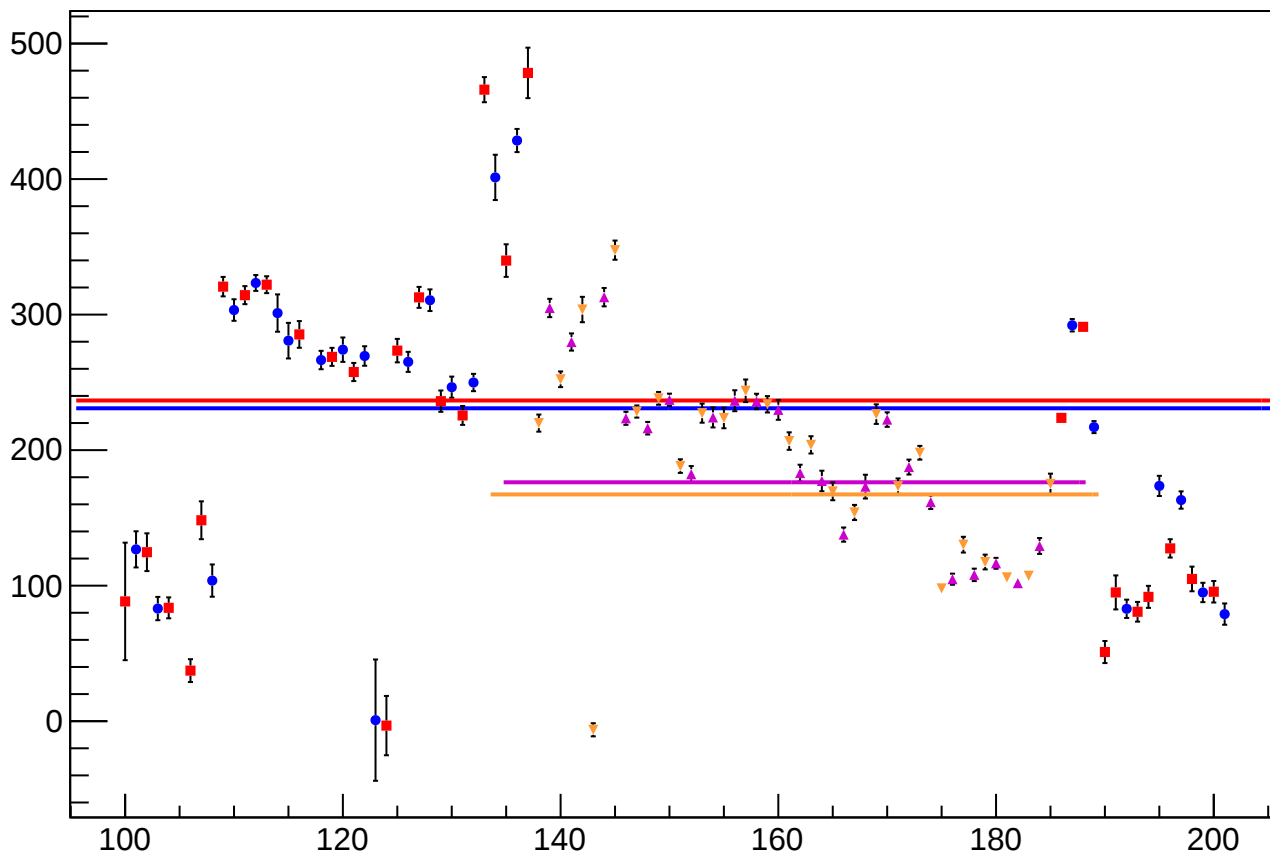
Right: 12.629 $\pm$ 0.713 χ^2 /NDF: 725.4/51

In: 7.553 $\pm$ 0.666 χ^2 /NDF:629.2/46

Out: 9.122 $\pm$ 0.632 χ^2 /NDF:707.6/52

All: 8.378 $\pm$ 0.459 χ^2 /NDF: 1339.8/99

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 230.878+/-1.531 χ^2/NDF : 3295.4/23

Left Out: 167.327+/-1.082 χ^2/NDF : 4454.5/24

Right Out: 236.624+/-1.252 χ^2/NDF : 5459.7/27

Left In: 176.272+/-1.106 χ^2/NDF : 3169.5/22

Left: 171.704+/-0.774 χ^2/NDF : 7657.4/47

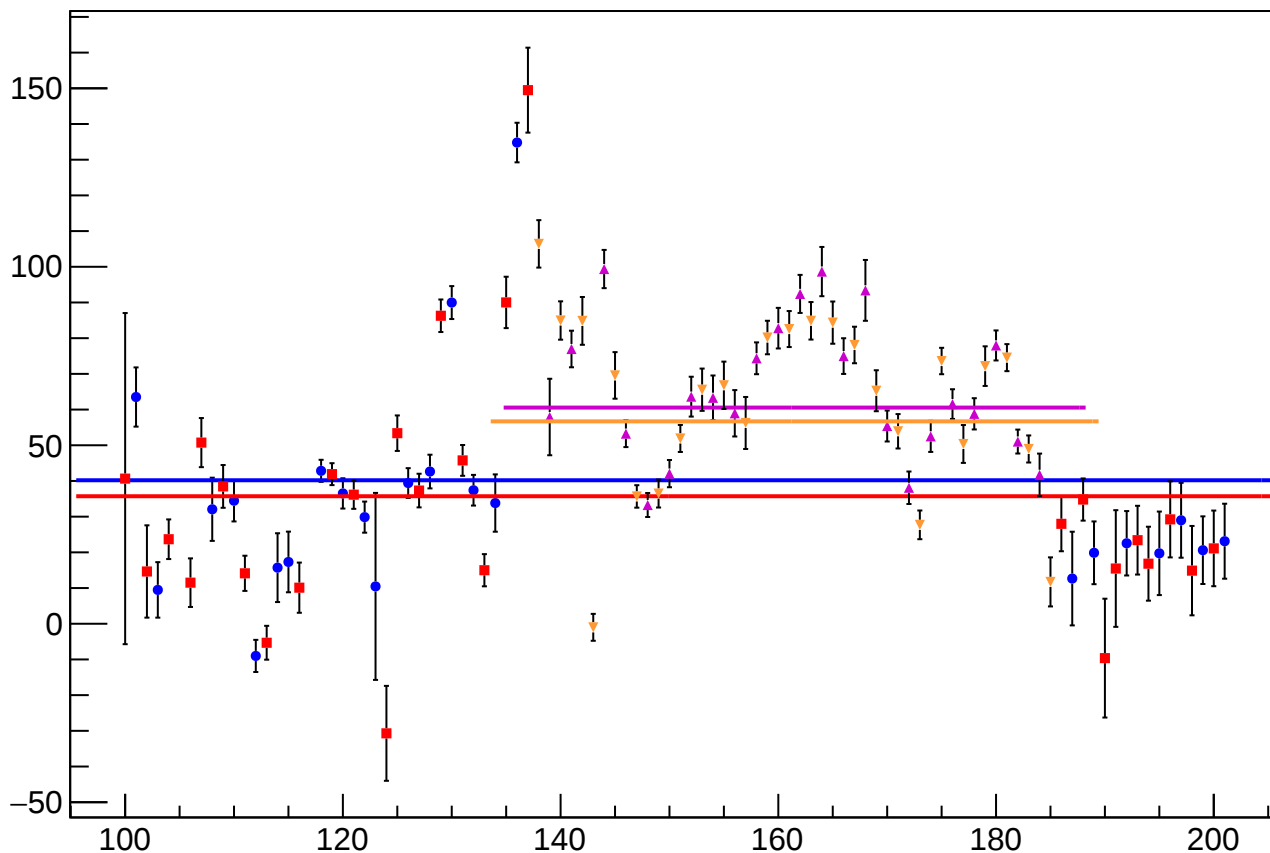
Right: 234.320+/-0.969 χ^2/NDF : 8763.5/51

In: 194.994+/-0.896 χ^2/NDF : 7301.1/46

Out: 196.960+/-0.819 χ^2/NDF : 11666.5/52

All: 196.066+/-0.605 χ^2/NDF : 18970.3/99

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 40.195 ± 1.212 χ^2/NDF : 600.4/23

Left Out: 56.695 ± 0.952 χ^2/NDF : 690.4/24

Right Out: 35.719 ± 1.154 χ^2/NDF : 492.1/27

Left In: 60.555 ± 0.990 χ^2/NDF : 335.6/22

Left: 58.548 ± 0.686 χ^2/NDF : 1034.0/47

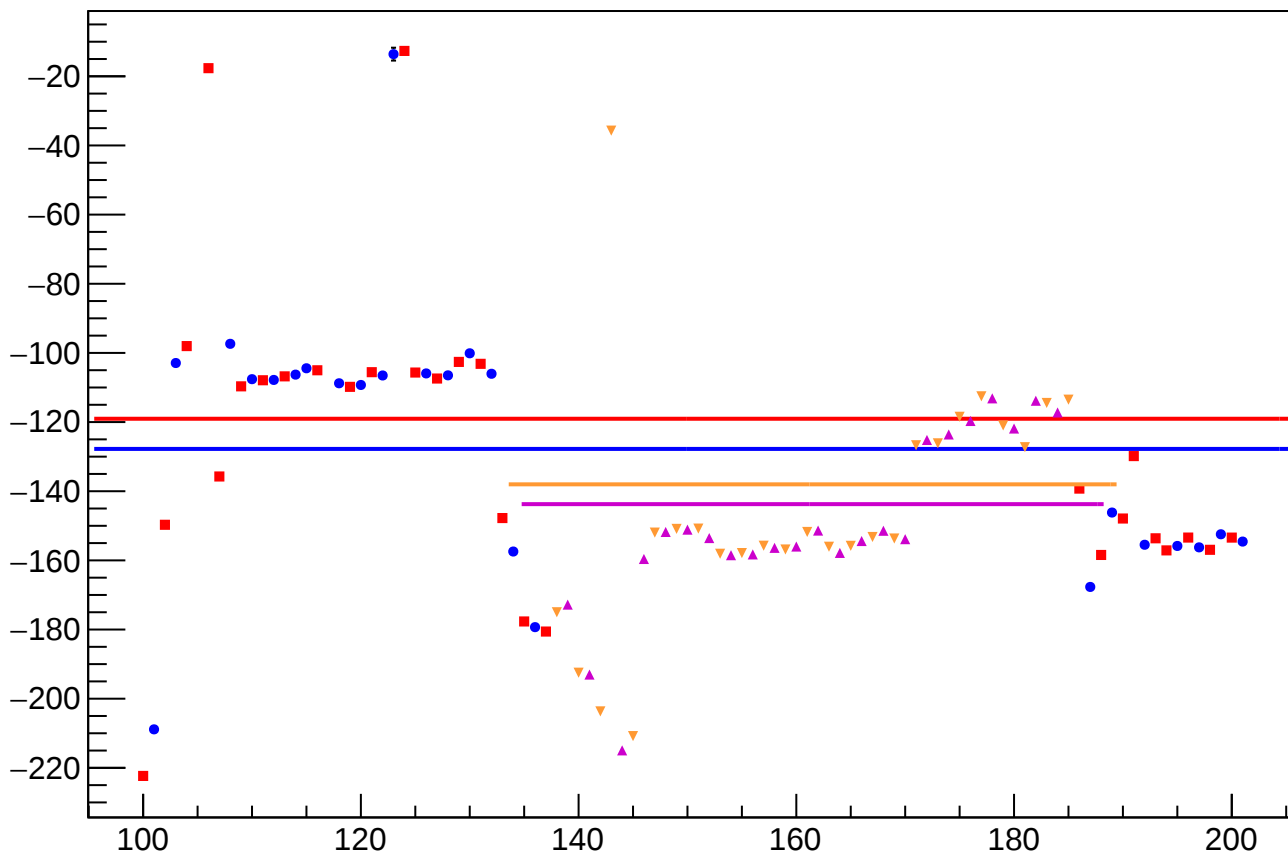
Right: 37.848 ± 0.836 χ^2/NDF : 1099.7/51

In: 52.402 ± 0.767 χ^2/NDF : 1105.3/46

Out: 48.204 ± 0.734 χ^2/NDF : 1379.2/52

All: 50.213 ± 0.530 χ^2/NDF : 2500.1/99

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -127.764 $\pm$ 0.067 χ^2 /NDF: 202318.4/23

Left Out: -138.008 $\pm$ 0.045 χ^2 /NDF: 565767.2/24

Right Out: -119.039 $\pm$ 0.062 χ^2 /NDF: 443966.4/27

Left In: -143.735 $\pm$ 0.046 χ^2 /NDF: 258408.3/22

Left: -140.811 $\pm$ 0.032 χ^2 /NDF: 832055.2/47

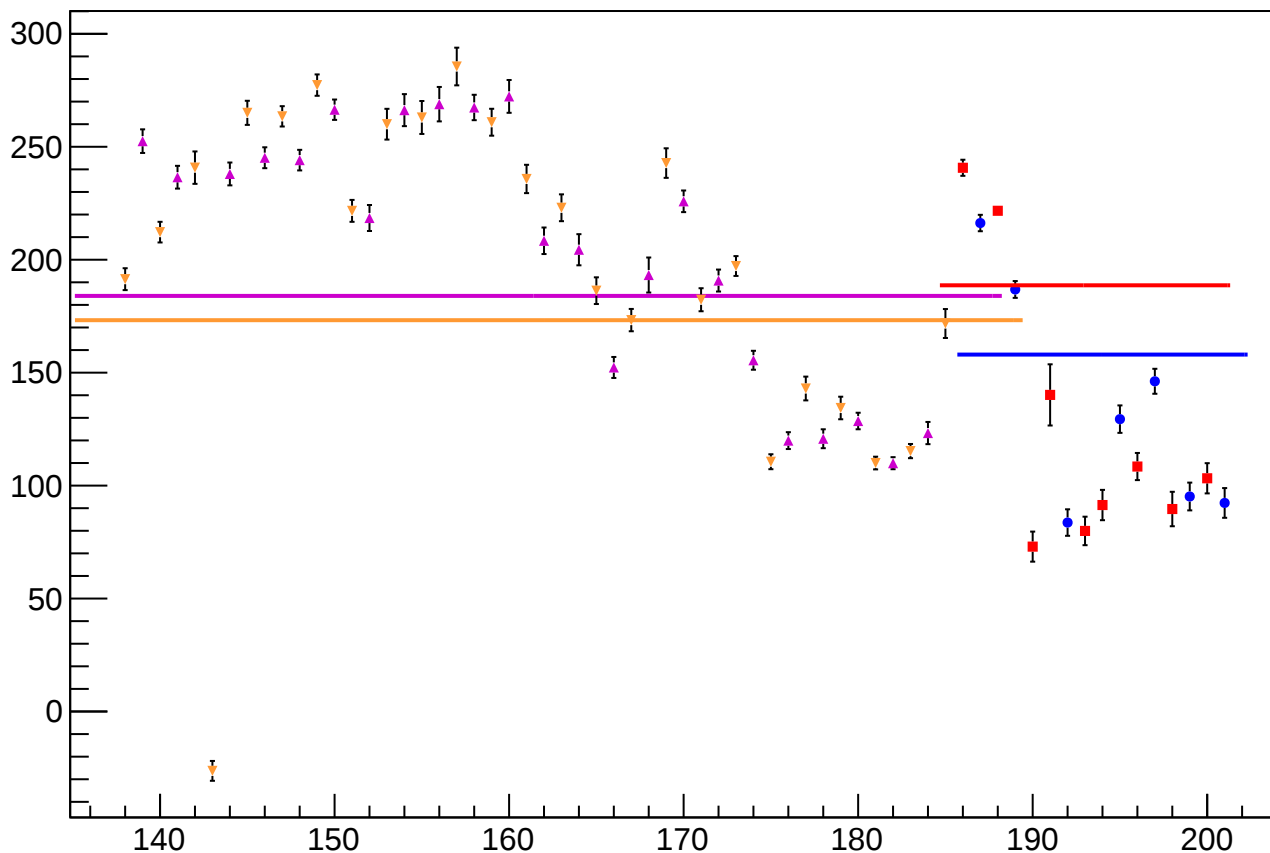
Right: -123.055 $\pm$ 0.045 χ^2 /NDF: 655471.4/51

In: -138.590 $\pm$ 0.038 χ^2 /NDF: 499393.2/46

Out: -131.405 $\pm$ 0.036 χ^2 /NDF: 1071237.8/52

All: -134.851 $\pm$ 0.026 χ^2 /NDF: 1589280.4/99

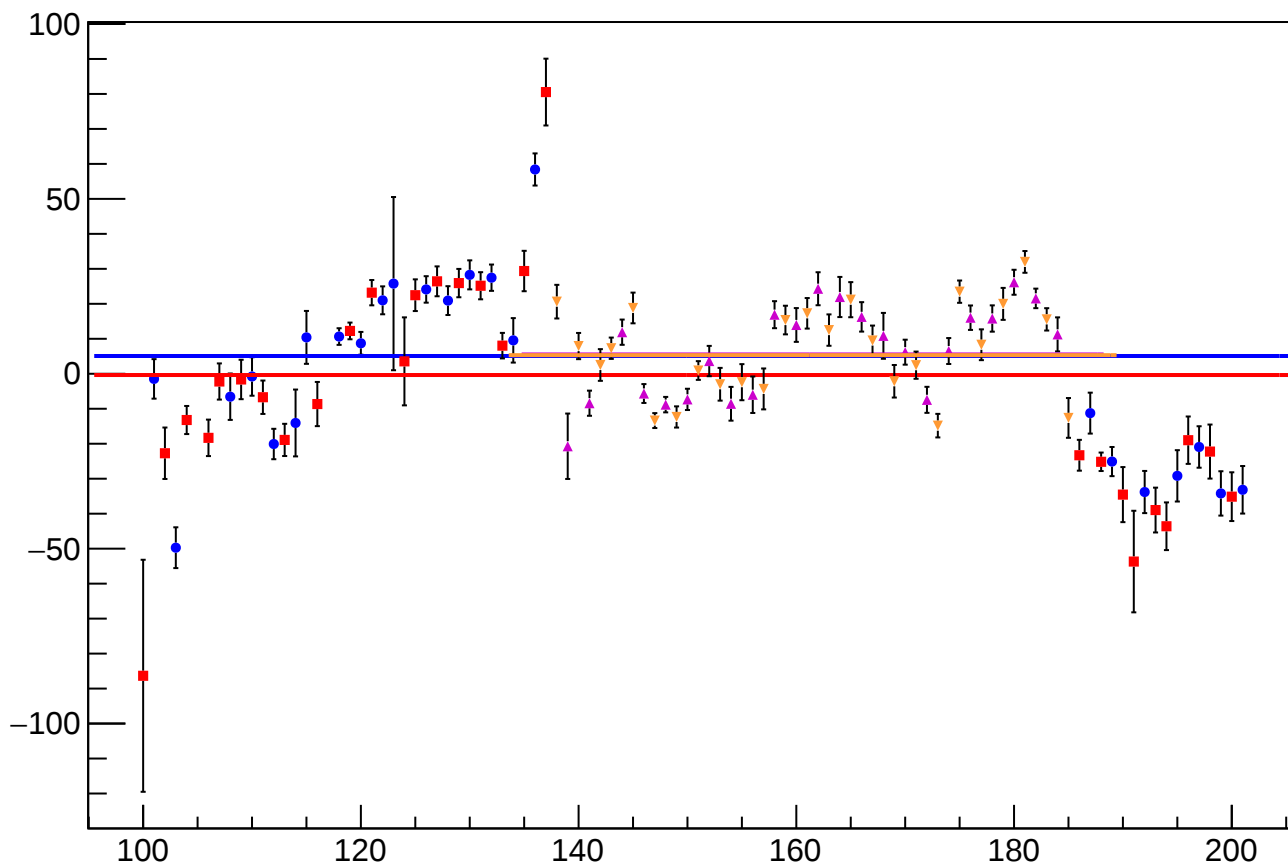
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 158.005 $\pm$ 1.868 χ^2 /NDF: 708.6/6
 Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF: 5846.0/24
 Right Out: 188.676 $\pm$ 1.401 χ^2 /NDF: 1859.5/8
 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: 177.636 $\pm$ 1.121 χ^2 /NDF: 2740.6/15
 In: 178.280 $\pm$ 0.875 χ^2 /NDF: 4473.2/29
 Out: 178.204 $\pm$ 0.795 χ^2 /NDF: 7787.8/33
 All: 178.238 $\pm$ 0.589 χ^2 /NDF: 12261.1/63

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.082 ± 0.966 χ^2/NDF : 610.3/23

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -0.358 ± 0.902 χ^2/NDF : 646.8/27

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

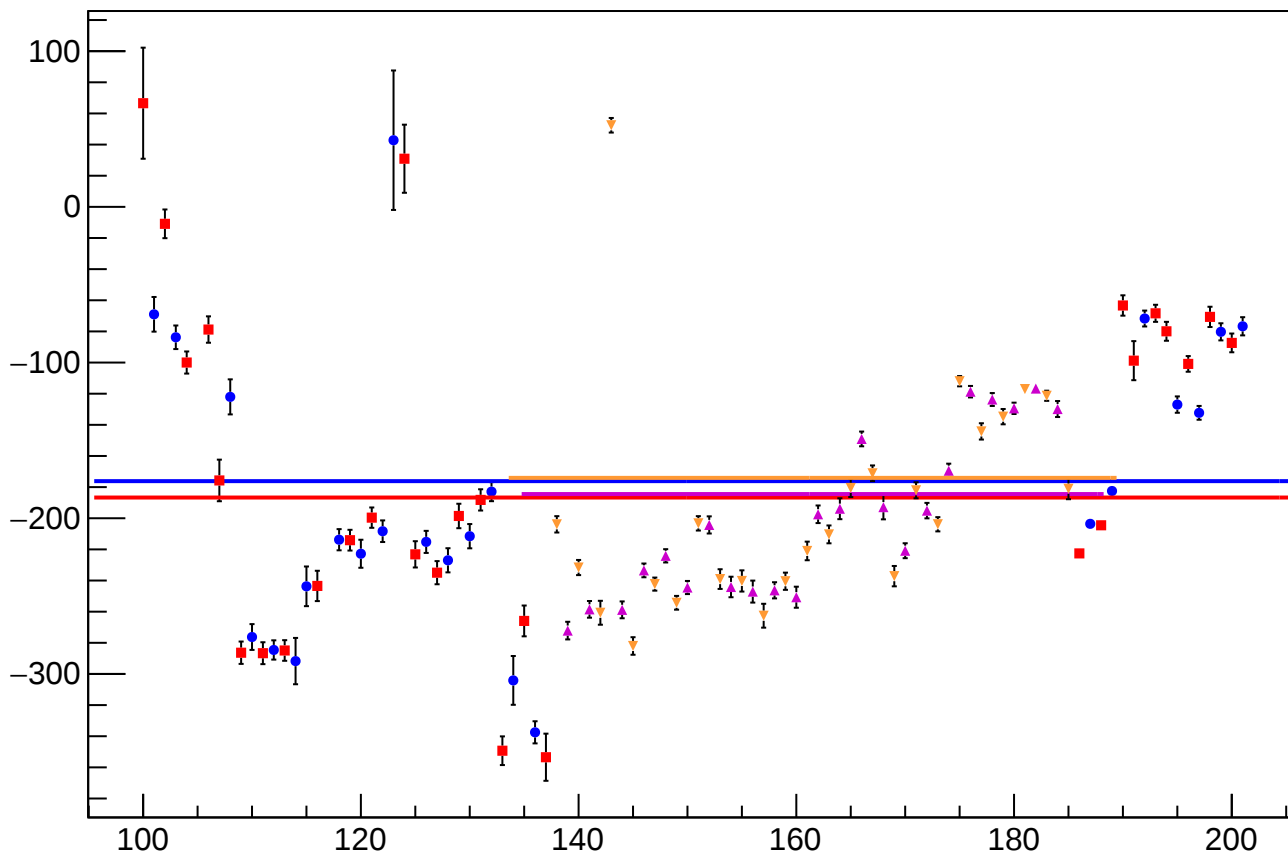
Right: 2.175 ± 0.659 χ^2/NDF : 1274.0/51

In: 5.351 ± 0.607 χ^2/NDF : 866.7/46

Out: 3.010 ± 0.575 χ^2/NDF : 1015.9/52

All: 4.117 ± 0.418 χ^2/NDF : 1890.4/99

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -176.163 ± 1.243 χ^2/NDF : 2873.1/23

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -186.693 ± 0.991 χ^2/NDF : 4417.0/27

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

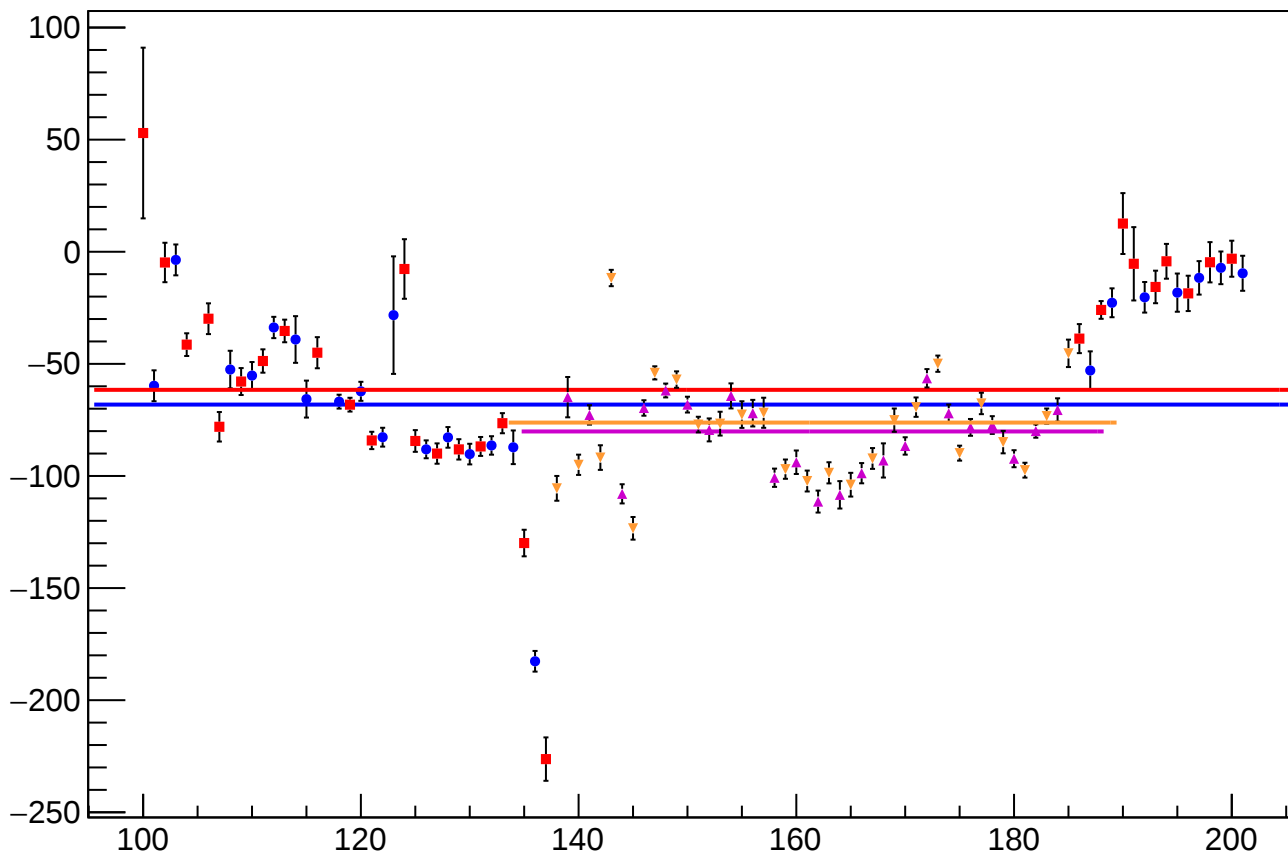
Right: -182.603 ± 0.775 χ^2/NDF : 7333.9/51

In: -181.235 ± 0.775 χ^2/NDF : 5951.9/46

Out: -180.249 ± 0.693 χ^2/NDF : 9943.1/52

All: -180.688 ± 0.517 χ^2/NDF : 15895.9/99

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -68.160 ± 1.134 $\chi^2/\text{NDF}: 1194.3/23$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -61.583 ± 1.078 $\chi^2/\text{NDF}: 1106.5/27$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

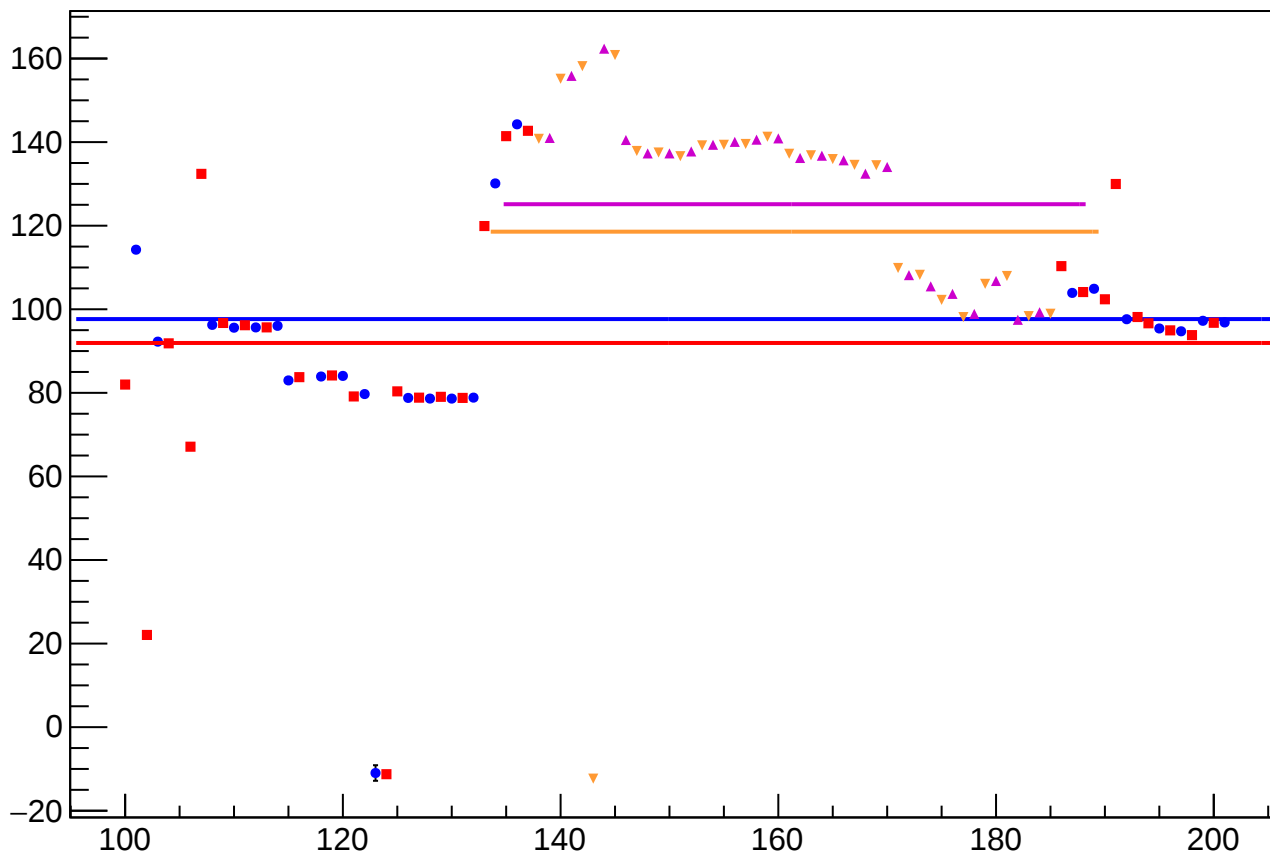
Right: -64.703 ± 0.781 $\chi^2/\text{NDF}: 2318.5/51$

In: -75.586 ± 0.700 $\chi^2/\text{NDF}: 1546.8/46$

Out: -70.524 ± 0.671 $\chi^2/\text{NDF}: 2019.9/52$

All: -72.948 ± 0.484 $\chi^2/\text{NDF}: 3594.0/99$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 97.652+/-0.058 χ^2/NDF : 94861.9/23

Left Out: 118.569+/-0.040 χ^2/NDF : 728689.7/24

Right Out: 91.935+/-0.054 χ^2/NDF : 240300.9/27

Left In: 125.139+/-0.041 χ^2/NDF : 220927.1/22

Left: 121.790+/-0.029 χ^2/NDF : 962526.8/47

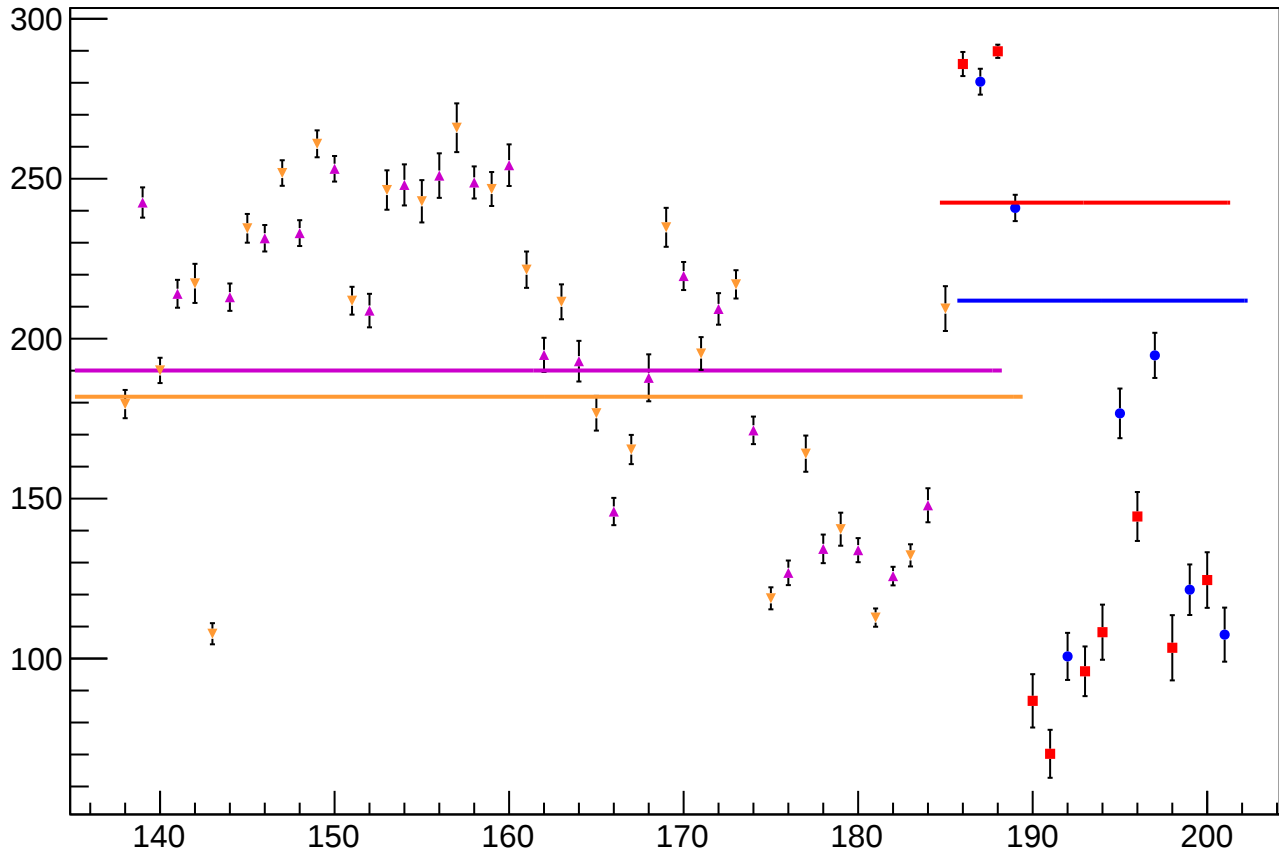
Right: 94.575+/-0.040 χ^2/NDF : 340324.2/51

In: 115.976+/-0.034 χ^2/NDF : 463569.4/46

Out: 109.001+/-0.032 χ^2/NDF : 1124398.9/52

All: 112.353+/-0.023 χ^2/NDF : 1610213.8/99

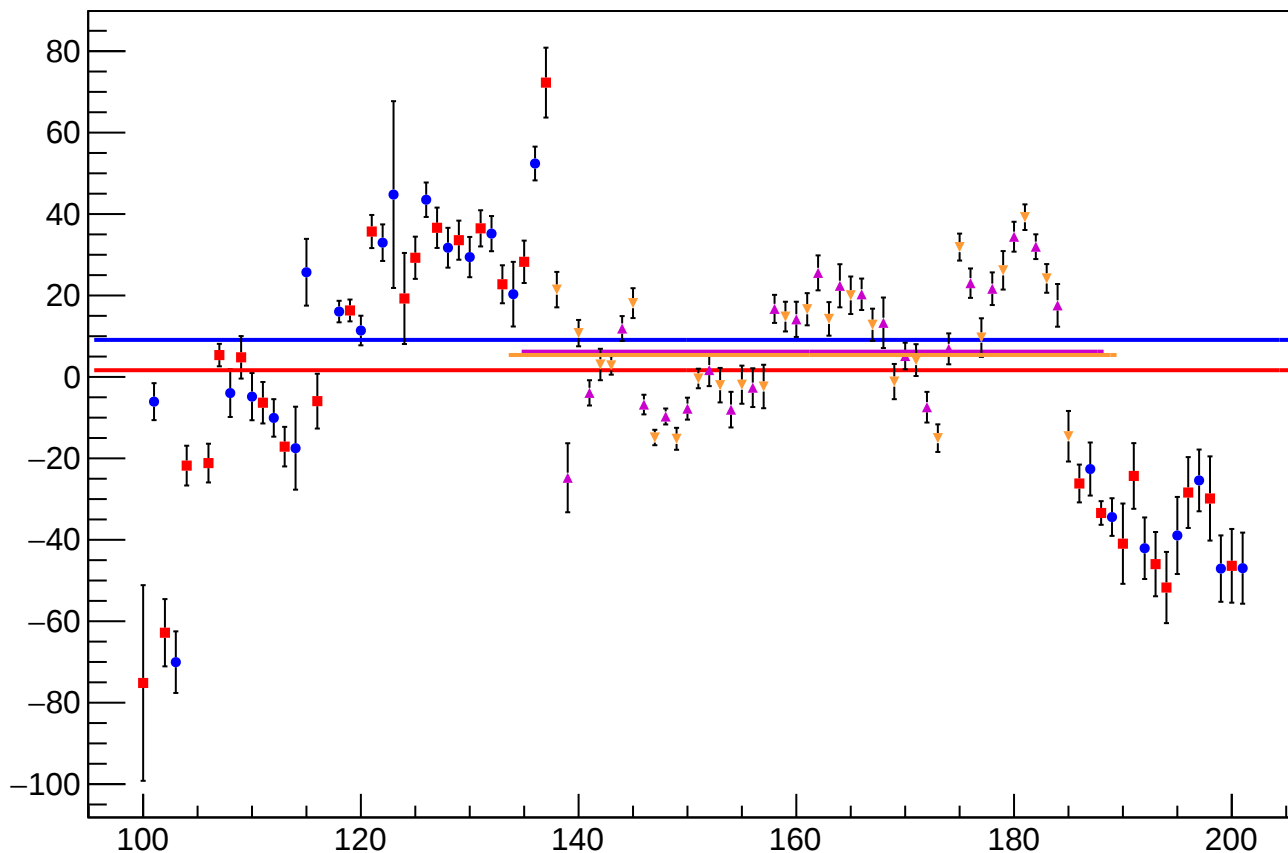
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 211.892 ± 2.207 $\chi^2/\text{NDF}: 874.0/6$
 Left Out: 181.850 ± 0.913 $\chi^2/\text{NDF}: 3303.4/24$
 Right Out: 242.527 ± 1.569 $\chi^2/\text{NDF}: 2666.5/8$
 Left In: 190.048 ± 0.953 $\chi^2/\text{NDF}: 2438.4/22$

Left: 185.775 ± 0.659 $\chi^2/\text{NDF}: 5780.3/47$
 Right: 232.246 ± 1.279 $\chi^2/\text{NDF}: 3668.5/15$
 In: 193.480 ± 0.875 $\chi^2/\text{NDF}: 3394.9/29$
 Out: 197.215 ± 0.789 $\chi^2/\text{NDF}: 7087.4/33$
 All: 195.539 ± 0.586 $\chi^2/\text{NDF}: 10492.4/63$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.094 $\pm$ 1.068 χ^2 /NDF: 742.9/23

Left Out: 5.394 $\pm$ 0.688 χ^2 /NDF:526.5/24

Right Out: 1.649 $\pm$ 0.952 χ^2 /NDF: 872.5/27

Left In: 6.206 $\pm$ 0.732 χ^2 /NDF:407.5/22

Left: 5.775 $\pm$ 0.501 χ^2 /NDF: 934.7/47

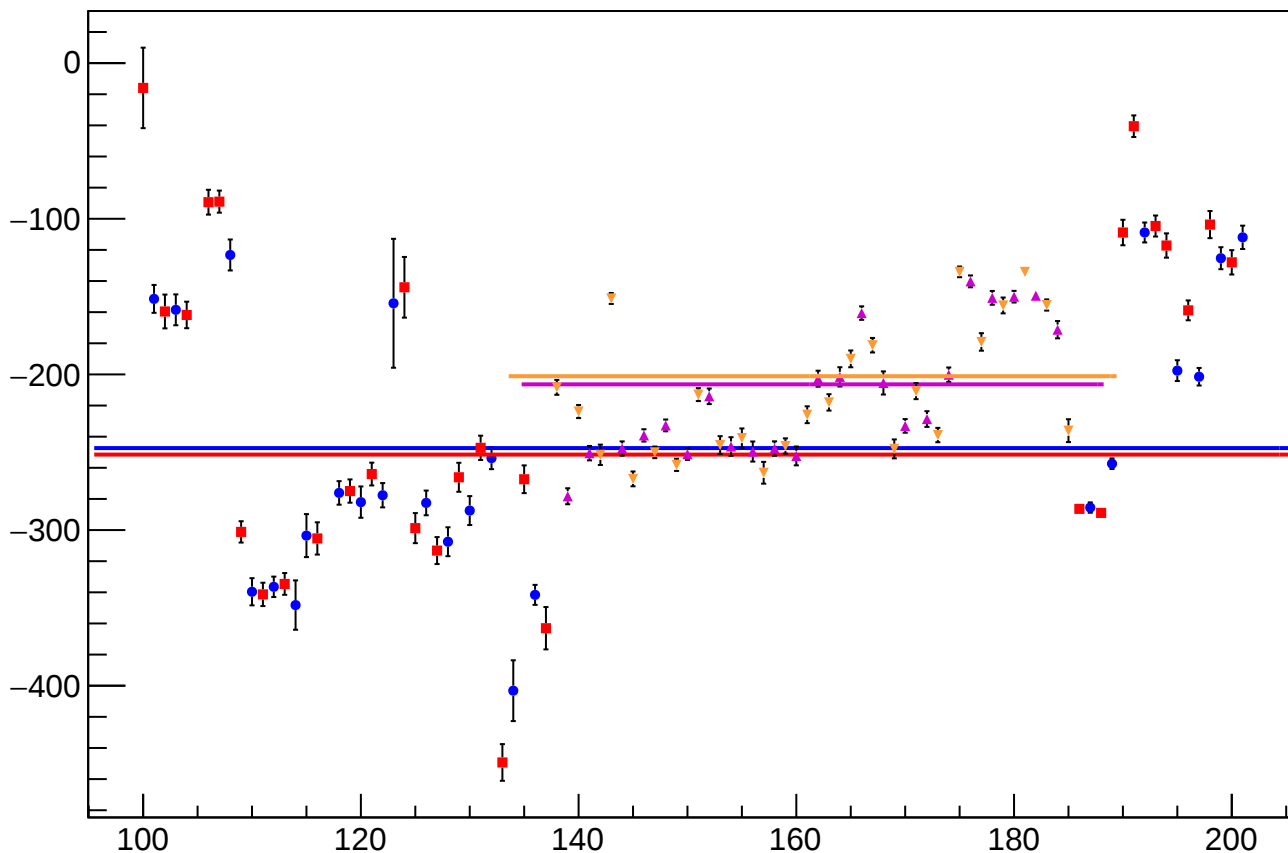
Right: 4.945 $\pm$ 0.710 χ^2 /NDF: 1642.6/51

In: 7.129 $\pm$ 0.604 χ^2 /NDF:1155.4/46

Out: 4.108 $\pm$ 0.558 χ^2 /NDF:1409.2/52

All: 5.499 $\pm$ 0.410 χ^2 /NDF: 2578.1/99

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -247.332 ± 1.413 χ^2/NDF : 2465.2/23

Left Out: -201.144 ± 0.918 χ^2/NDF : 2488.8/24

Right Out: -251.505 ± 1.087 χ^2/NDF : 5425.7/27

Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47

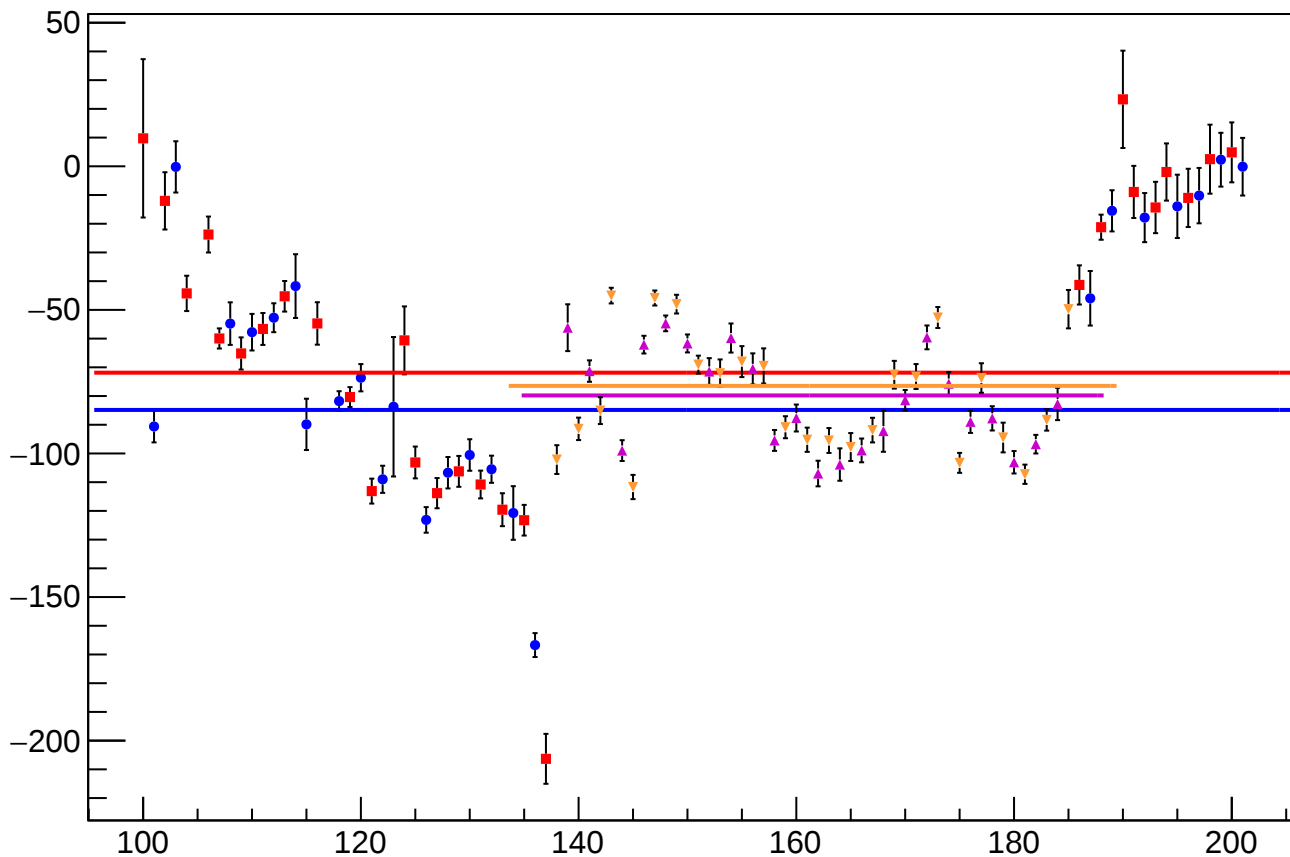
Right: -249.953 ± 0.862 χ^2/NDF : 7896.4/51

In: -219.119 ± 0.788 χ^2/NDF : 5155.4/46

Out: -222.094 ± 0.701 χ^2/NDF : 9166.9/52

All: -220.779 ± 0.524 χ^2/NDF : 14330.3/99

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -84.838 ± 1.251 χ^2/NDF : 1162.9/23

Left Out: -76.460 ± 0.797 χ^2/NDF : 781.3/24

Right Out: -71.863 ± 1.140 χ^2/NDF : 1327.1/27

Left In: -79.792 ± 0.840 χ^2/NDF : 412.3/22

Left: -78.038 ± 0.578 χ^2/NDF : 1201.9/47

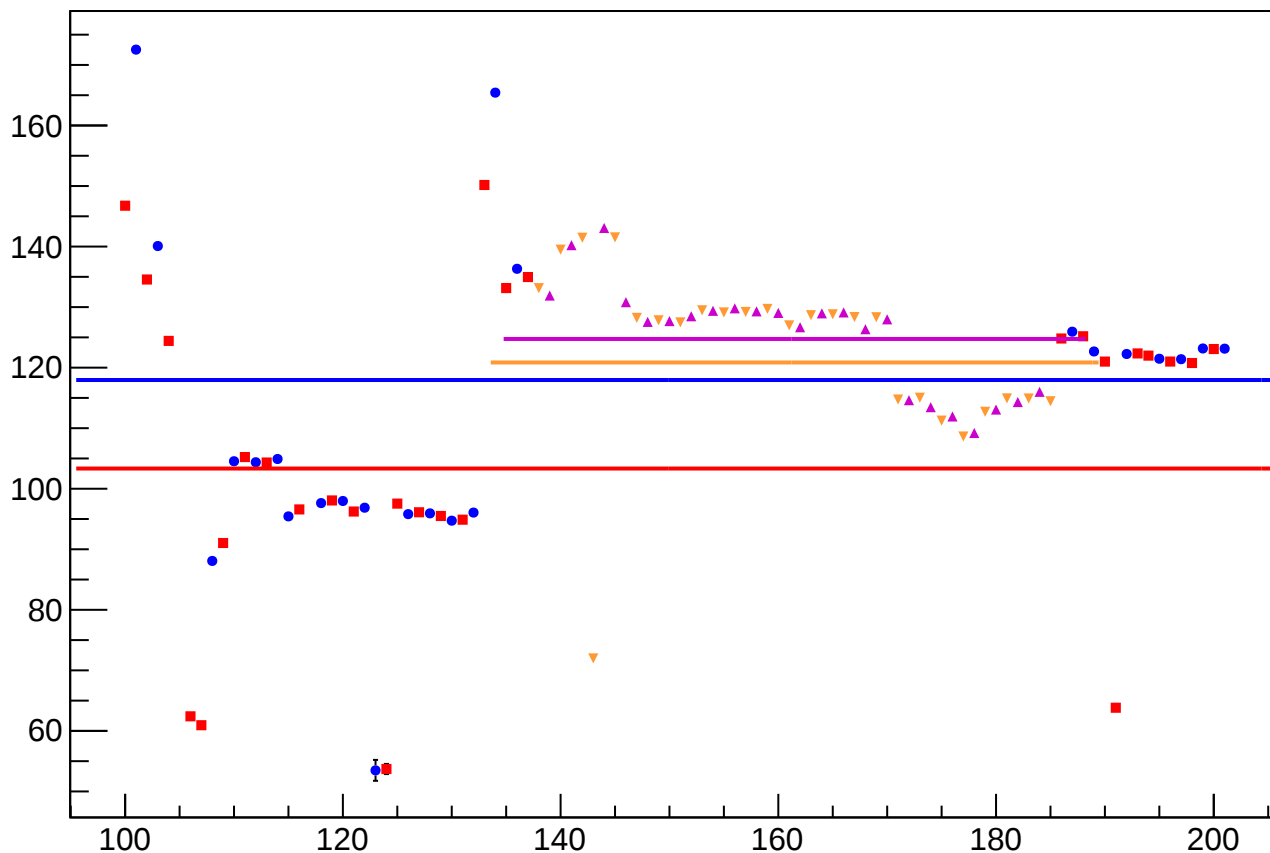
Right: -77.749 ± 0.843 χ^2/NDF : 2548.7/51

In: -81.359 ± 0.697 χ^2/NDF : 1586.4/46

Out: -74.952 ± 0.653 χ^2/NDF : 2119.3/52

All: -77.946 ± 0.477 χ^2/NDF : 3750.7/99

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 117.958 $\pm$ 0.066 χ^2 /NDF: 107867.7/23

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 103.336 $\pm$ 0.057 χ^2 /NDF: 232787.8/27

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

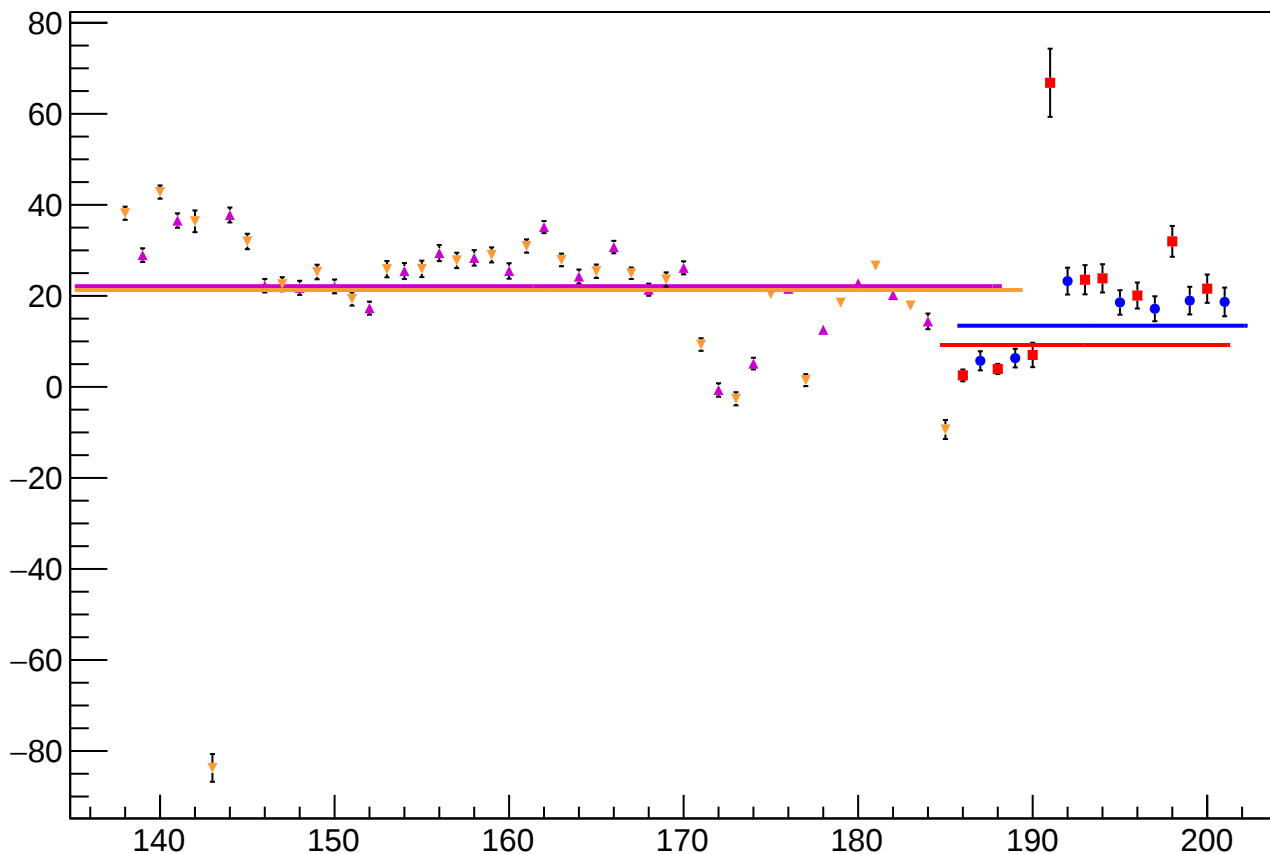
Right: 109.597 $\pm$ 0.043 χ^2 /NDF: 368920.6/51

In: 122.958 $\pm$ 0.034 χ^2 /NDF:167000.6/46

Out: 115.442 $\pm$ 0.032 χ^2 /NDF:481028.6/52

All: 118.962 $\pm$ 0.023 χ^2 /NDF: 674462.3/99

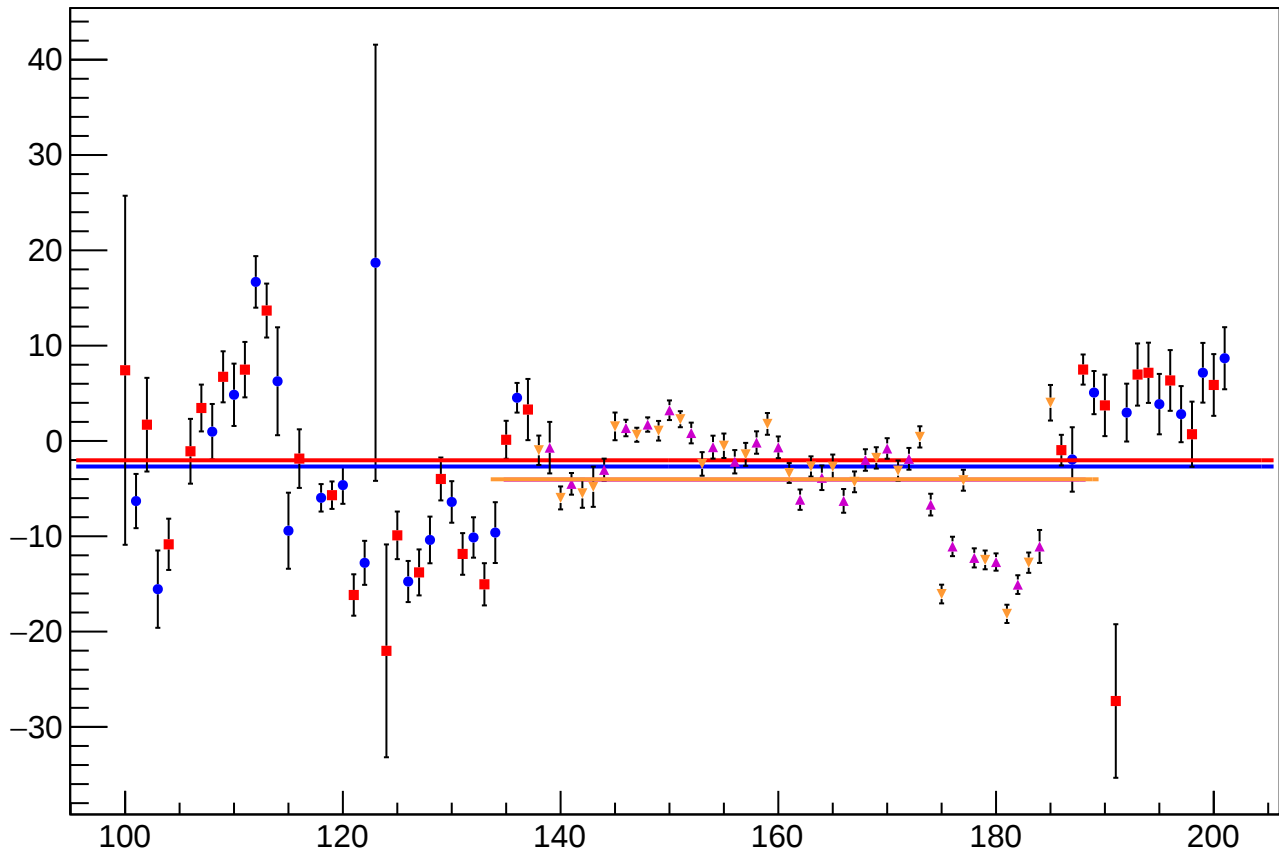
reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.444 $\pm$ 0.972 χ^2 /NDF: 48.1/6
 Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24
 Right Out: 9.206 $\pm$ 0.695 χ^2 /NDF: 226.5/8
 Left In: 22.127 $\pm$ 0.285 χ^2 /NDF:900.2/22

Left: 21.700 $\pm$ 0.201 χ^2 /NDF: 3505.2/47
 Right: 10.638 $\pm$ 0.565 χ^2 /NDF: 287.2/15
 In: 21.437 $\pm$ 0.274 χ^2 /NDF:1021.8/29
 Out: 19.568 $\pm$ 0.262 χ^2 /NDF:3086.5/33
 All: 20.460 $\pm$ 0.189 χ^2 /NDF: 4132.6/63

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.681 ± 0.521 χ^2/NDF : 229.1/23

Left Out: -4.022 ± 0.223 χ^2/NDF : 734.1/24

Right Out: -2.028 ± 0.483 χ^2/NDF : 293.3/27

Left In: -4.059 ± 0.228 χ^2/NDF : 577.2/22

Left: -4.040 ± 0.159 χ^2/NDF : 1311.4/47

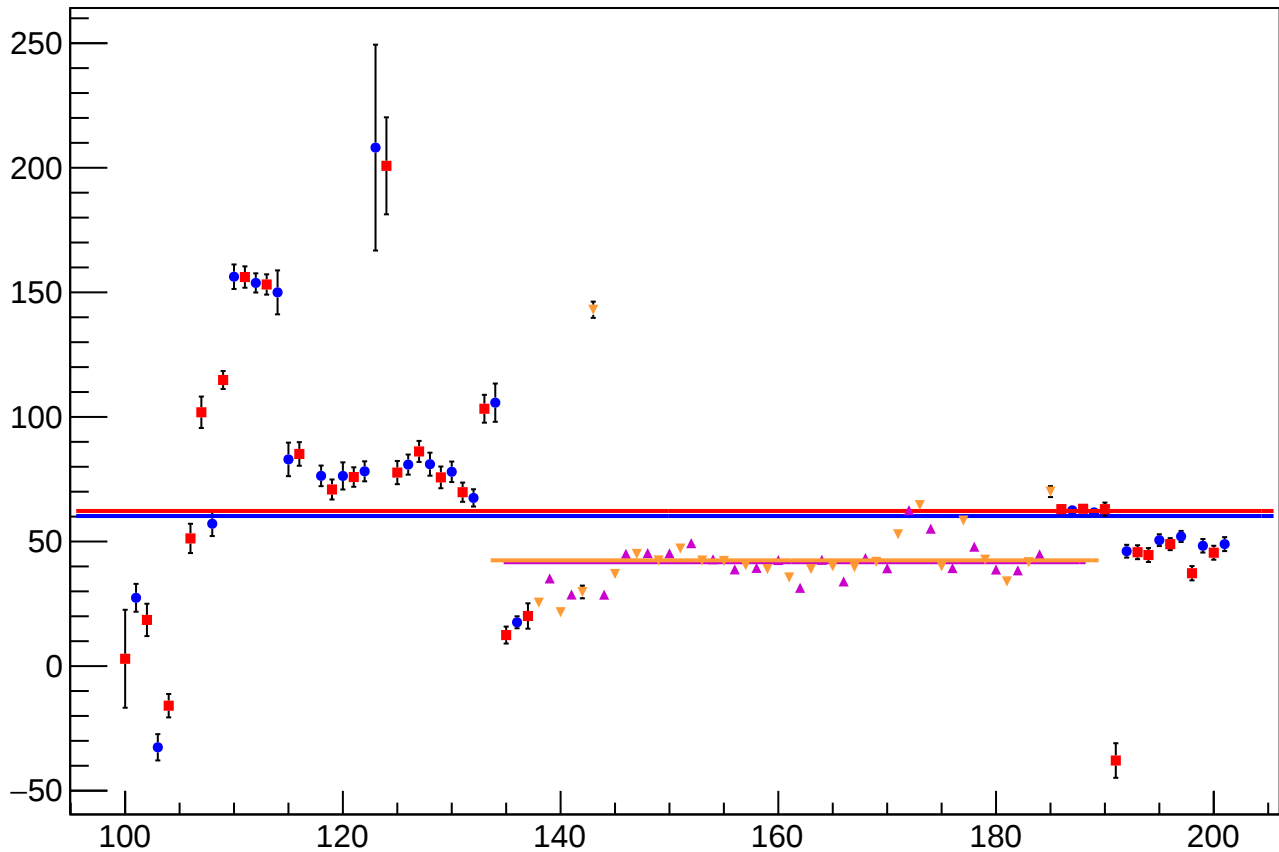
Right: -2.330 ± 0.354 χ^2/NDF : 523.3/51

In: -3.837 ± 0.209 χ^2/NDF : 812.2/46

Out: -3.671 ± 0.203 χ^2/NDF : 1041.5/52

All: -3.751 ± 0.145 χ^2/NDF : 1854.0/99

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 60.234 ± 0.659 χ^2/NDF : 2006.7/23

Left Out: 42.452 ± 0.282 χ^2/NDF : 2016.0/24

Right Out: 62.262 ± 0.508 χ^2/NDF : 2475.0/27

Left In: 41.695 ± 0.284 χ^2/NDF : 630.2/22

Left: 42.077 ± 0.200 χ^2/NDF : 2649.8/47

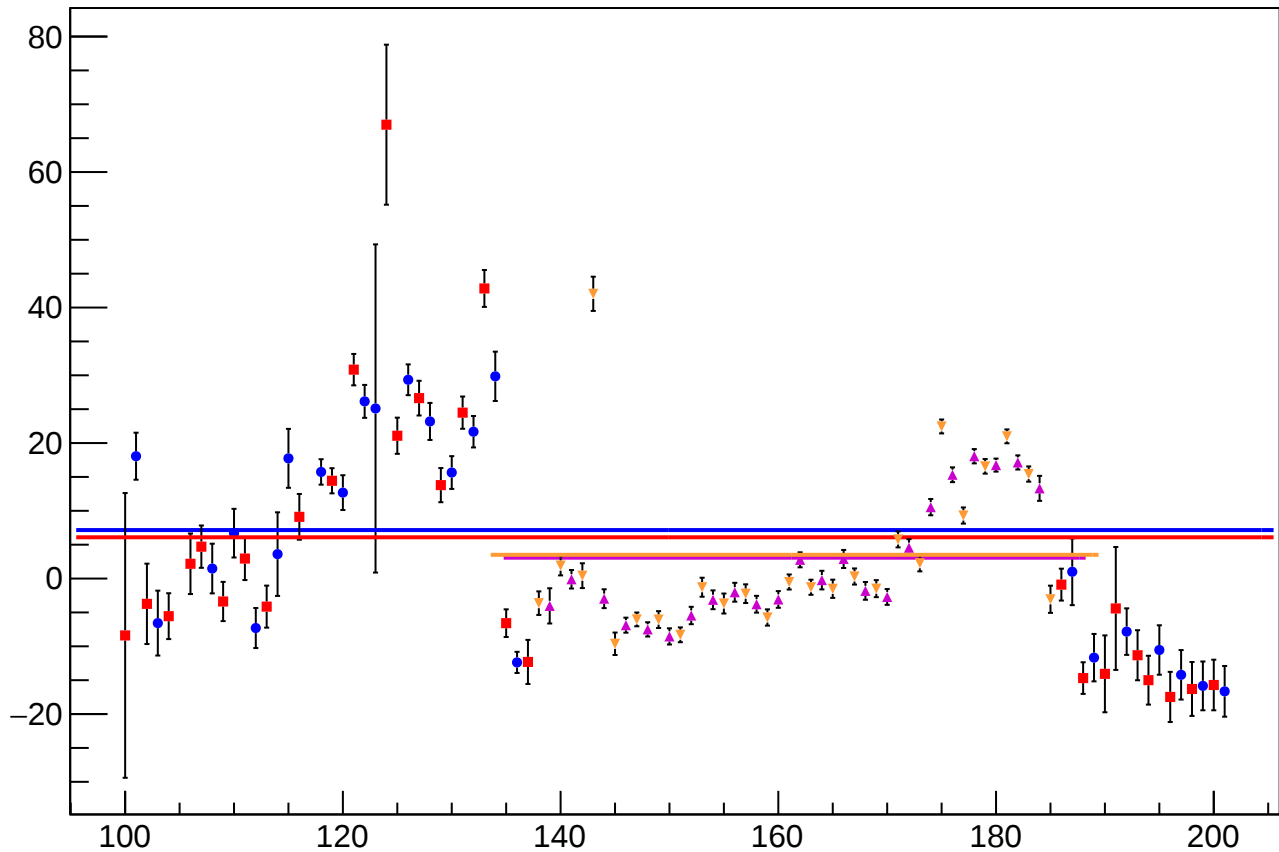
Right: 61.506 ± 0.402 χ^2/NDF : 4487.7/51

In: 44.603 ± 0.261 χ^2/NDF : 3304.9/46

Out: 47.119 ± 0.246 χ^2/NDF : 5654.2/52

All: 45.933 ± 0.179 χ^2/NDF : 9008.2/99

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.158 ± 0.603 χ^2/NDF : 702.8/23

Left Out: 3.505 ± 0.252 χ^2/NDF : 1691.3/24

Right Out: 6.091 ± 0.575 χ^2/NDF : 882.4/27

Left In: 3.081 ± 0.257 χ^2/NDF : 1265.7/22

Left: 3.297 ± 0.180 χ^2/NDF : 2958.4/47

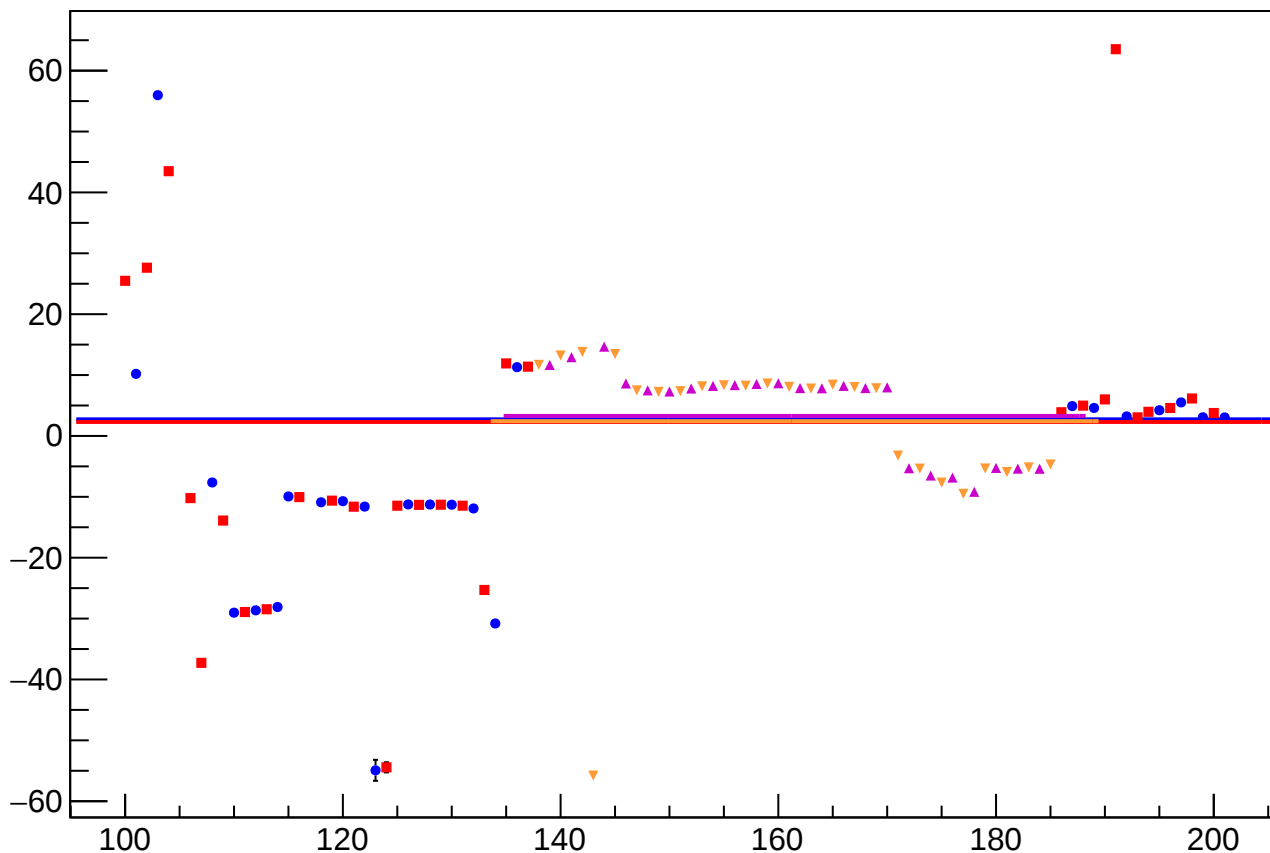
Right: 6.600 ± 0.416 χ^2/NDF : 1586.8/51

In: 3.709 ± 0.236 χ^2/NDF : 2007.2/46

Out: 3.923 ± 0.231 χ^2/NDF : 2590.6/52

All: 3.818 ± 0.165 χ^2/NDF : 4598.2/99

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.726 $\pm$ 0.029 χ^2 /NDF: 359210.1/23

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.299 $\pm$ 0.028 χ^2 /NDF: 430927.1/27

Left In: 3.293 $\pm$ 0.012 χ^2 /NDF: 404323.8/22

Left: 2.855 $\pm$ 0.008 χ^2 /NDF: 1023497.1/47

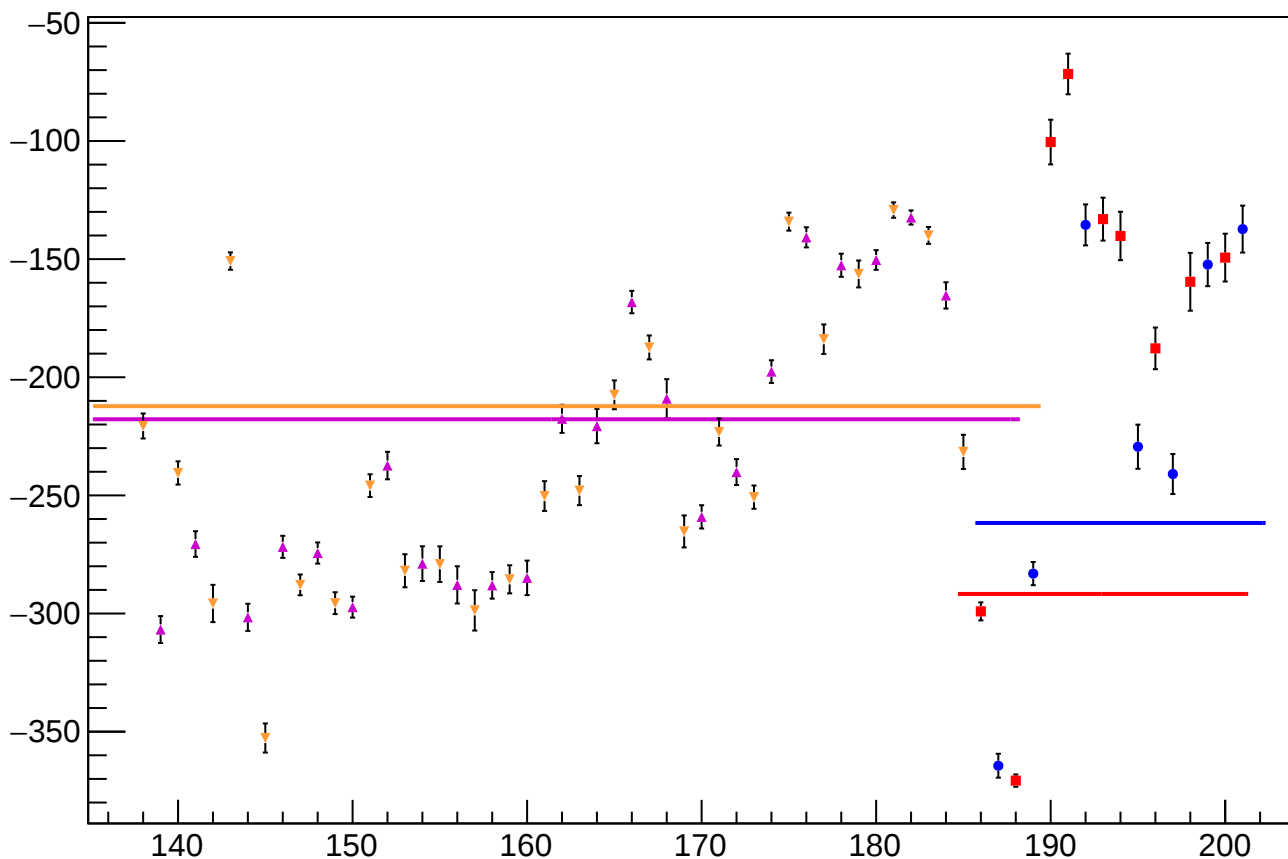
Right: 2.504 $\pm$ 0.020 χ^2 /NDF: 790250.4/51

In: 3.213 $\pm$ 0.011 χ^2 /NDF: 763864.8/46

Out: 2.407 $\pm$ 0.011 χ^2 /NDF: 1047327.1/52

All: 2.805 $\pm$ 0.008 χ^2 /NDF: 1814009.8/99

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -261.670 ± 2.659 χ^2/NDF : 960.3/6

Left Out: -212.231 ± 1.029 χ^2/NDF : 3875.4/24

Right Out: -291.708 ± 1.854 χ^2/NDF : 2959.7/8

Left In: -217.779 ± 1.067 χ^2/NDF : 3448.9/22

Left: -214.906 ± 0.741 χ^2/NDF : 7338.3/47

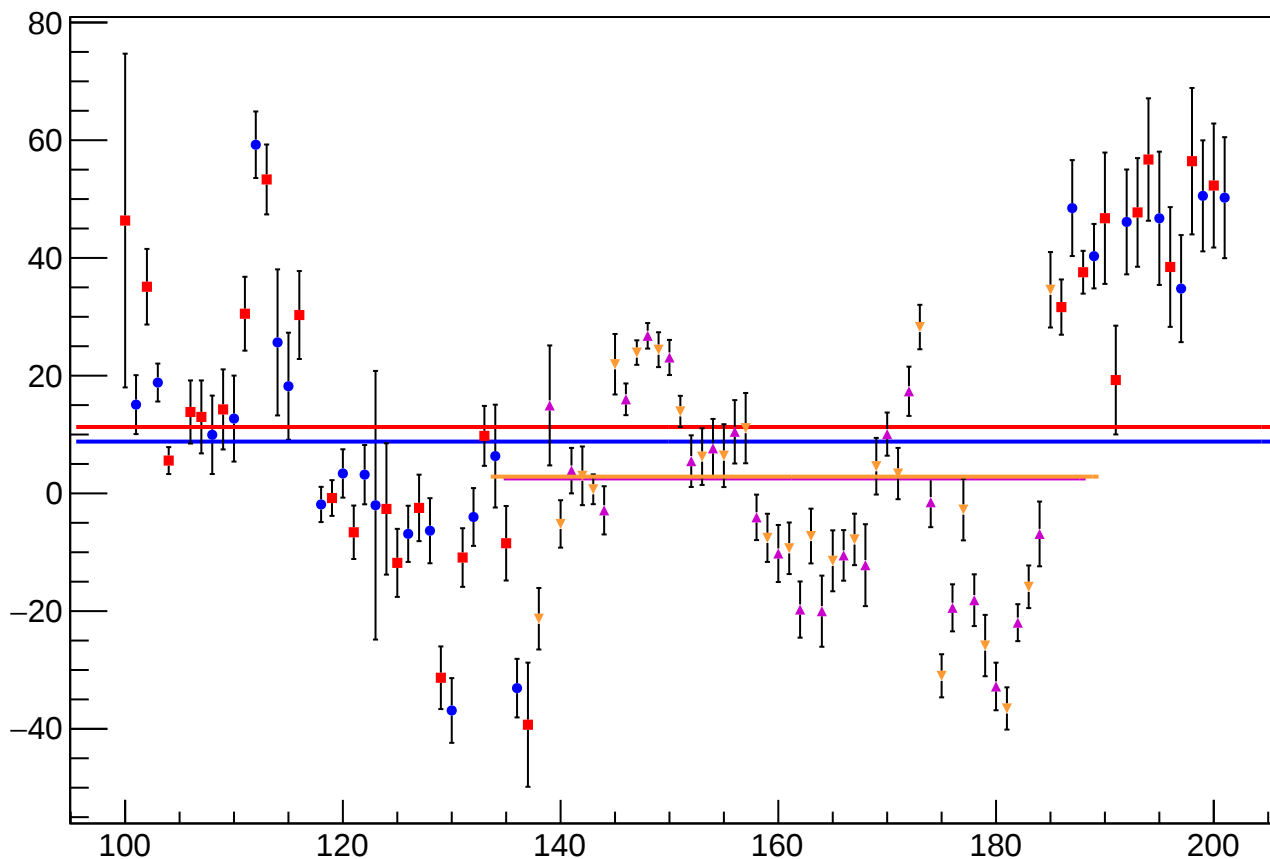
Right: -281.883 ± 1.521 χ^2/NDF : 4005.9/15

In: -223.866 ± 0.990 χ^2/NDF : 4644.0/29

Out: -230.966 ± 0.900 χ^2/NDF : 8240.2/33

All: -227.754 ± 0.666 χ^2/NDF : 12912.4/63

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.801 ± 1.158 $\chi^2/\text{NDF}: 404.7/23$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 11.279 ± 1.036 $\chi^2/\text{NDF}: 411.6/27$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

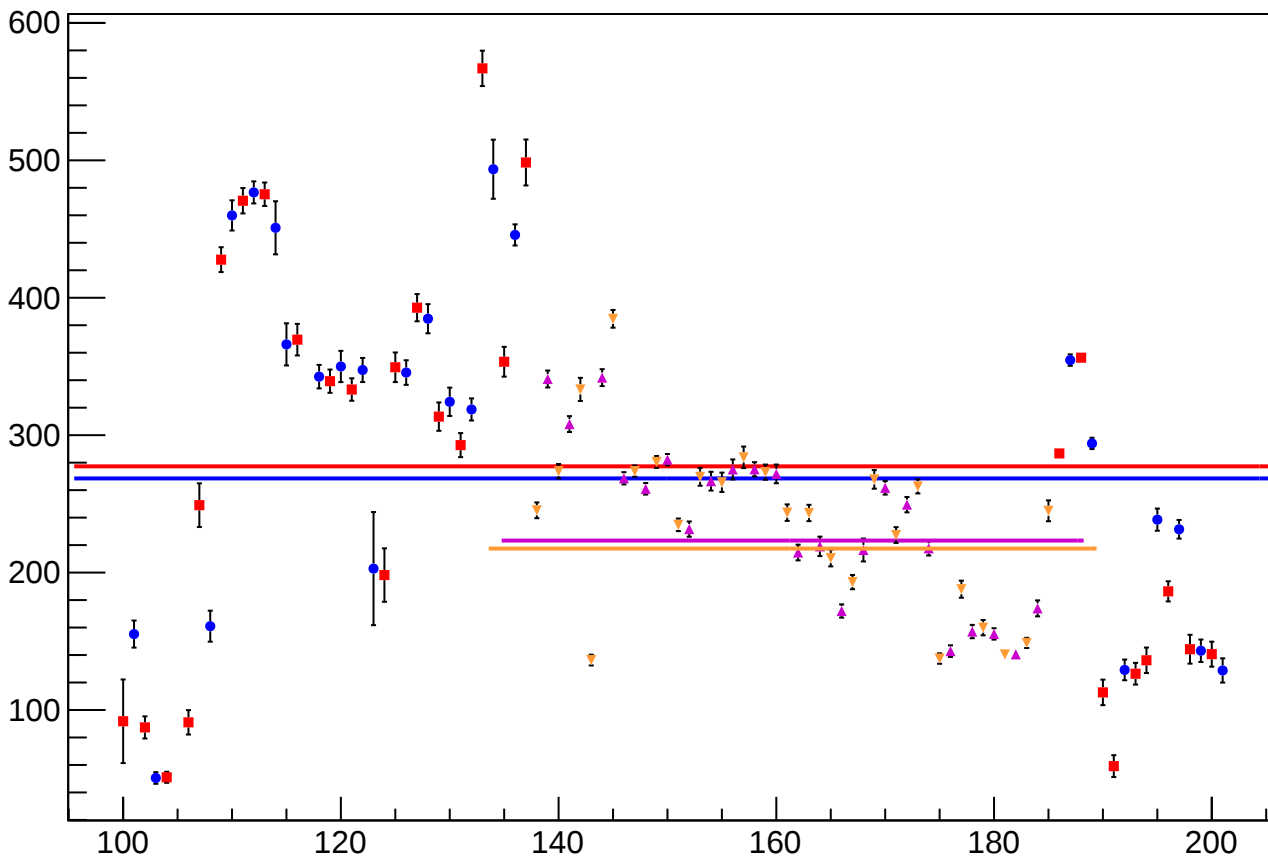
Right: 10.177 ± 0.772 $\chi^2/\text{NDF}: 818.9/51$

In: 4.640 ± 0.671 $\chi^2/\text{NDF}: 897.8/46$

Out: 5.872 ± 0.620 $\chi^2/\text{NDF}: 1036.2/52$

All: 5.304 ± 0.455 $\chi^2/\text{NDF}: 1935.9/99$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 268.516 $\pm$ 1.572 χ^2 /NDF: 6433.7/23

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF:3769.5/24

Right Out: 277.312 $\pm$ 1.231 χ^2 /NDF: 10170.2/27

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

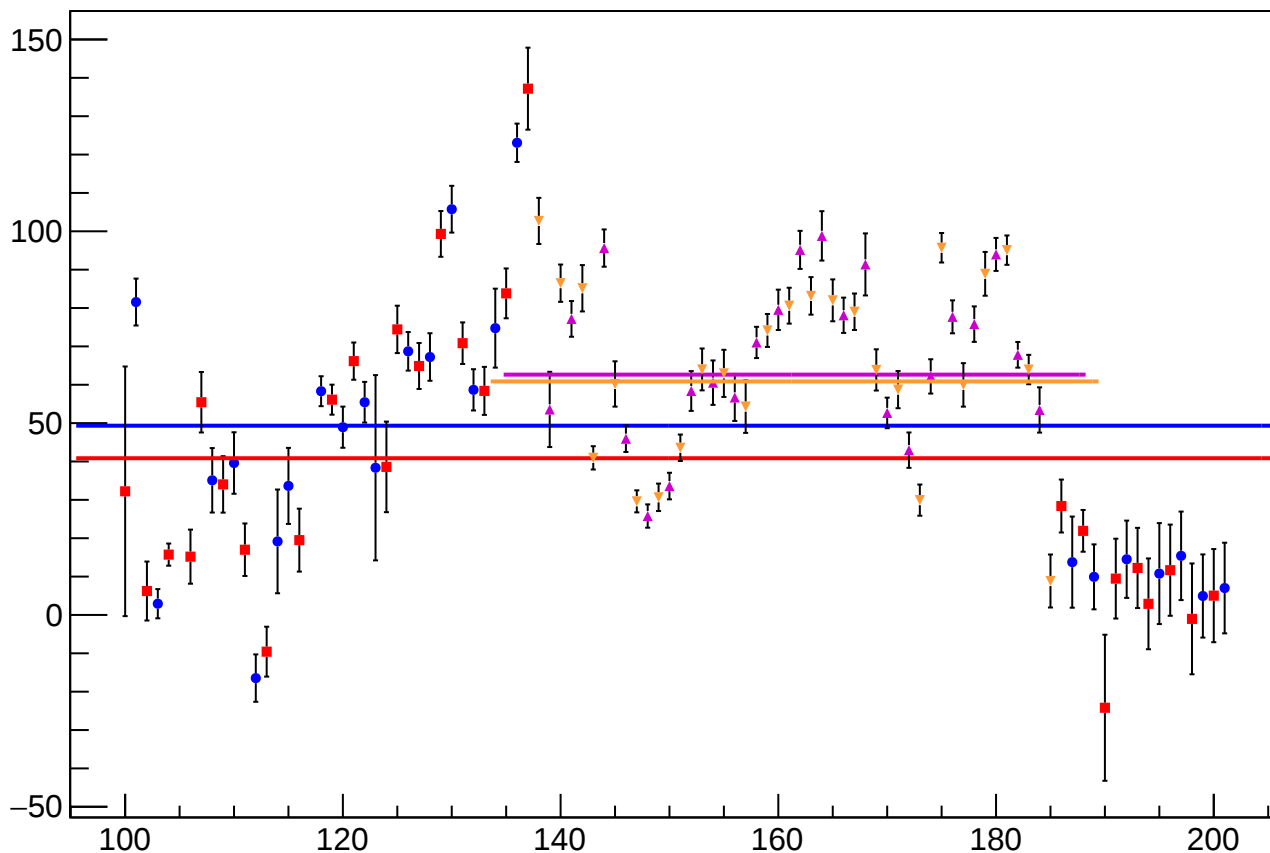
Right: 273.969 $\pm$ 0.969 χ^2 /NDF: 16623.3/51

In: 237.473 $\pm$ 0.880 χ^2 /NDF:10379.5/46

Out: 242.196 $\pm$ 0.791 χ^2 /NDF:15327.0/52

All: 240.085 $\pm$ 0.588 χ^2 /NDF: 25722.4/99

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 49.329 ± 1.359 $\chi^2/\text{NDF}: 733.7/23$

Left Out: 60.863 ± 0.897 $\chi^2/\text{NDF}: 731.6/24$

Right Out: 40.850 ± 1.247 $\chi^2/\text{NDF}: 617.3/27$

Left In: 62.640 ± 0.943 $\chi^2/\text{NDF}: 515.4/22$

Left: 61.707 ± 0.650 $\chi^2/\text{NDF}: 1248.9/47$

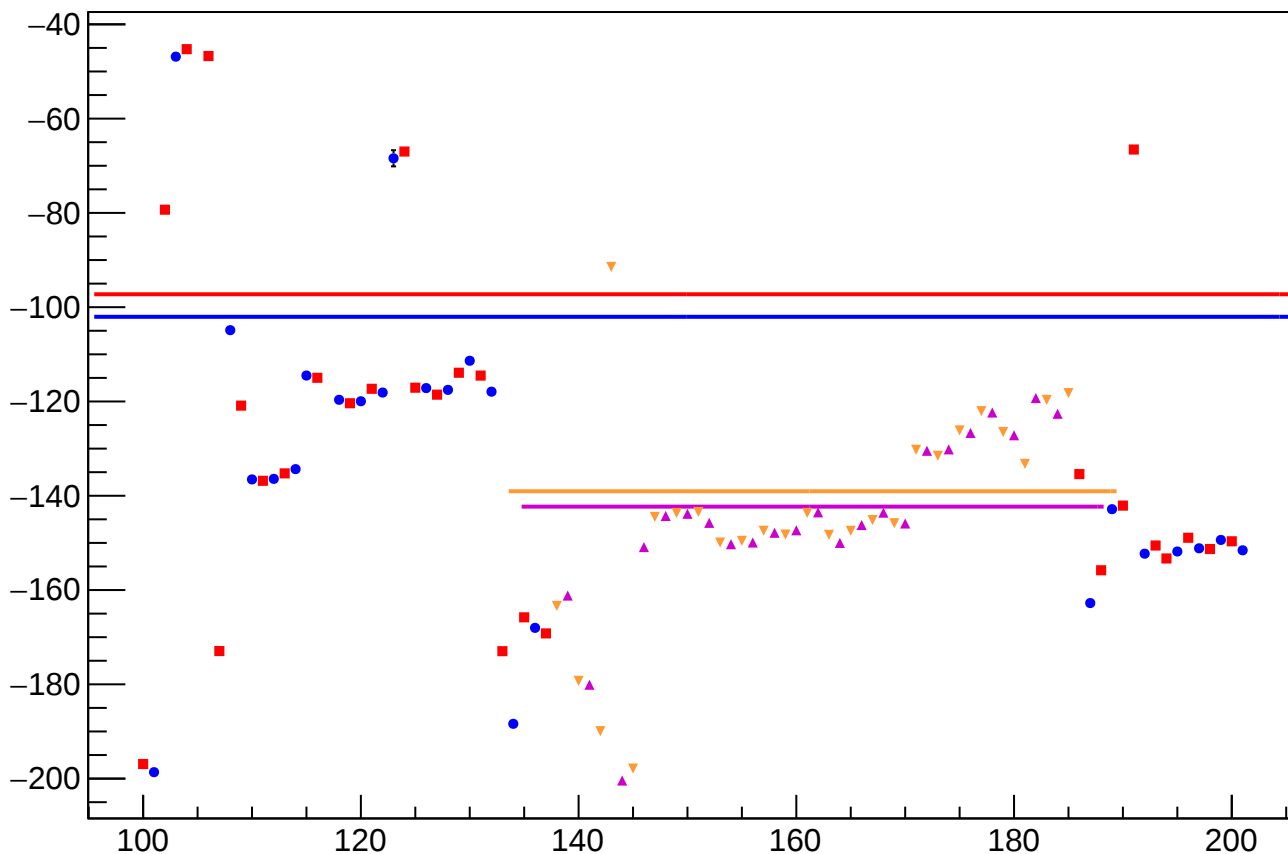
Right: 44.727 ± 0.919 $\chi^2/\text{NDF}: 1372.1/51$

In: 58.315 ± 0.775 $\chi^2/\text{NDF}: 1313.9/46$

Out: 54.042 ± 0.728 $\chi^2/\text{NDF}: 1518.7/52$

All: 56.046 ± 0.530 $\chi^2/\text{NDF}: 2848.7/99$

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -102.037+/-0.061 χ^2/NDF : 679581.6/23

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -97.256+/-0.057 χ^2/NDF : 703687.3/27

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

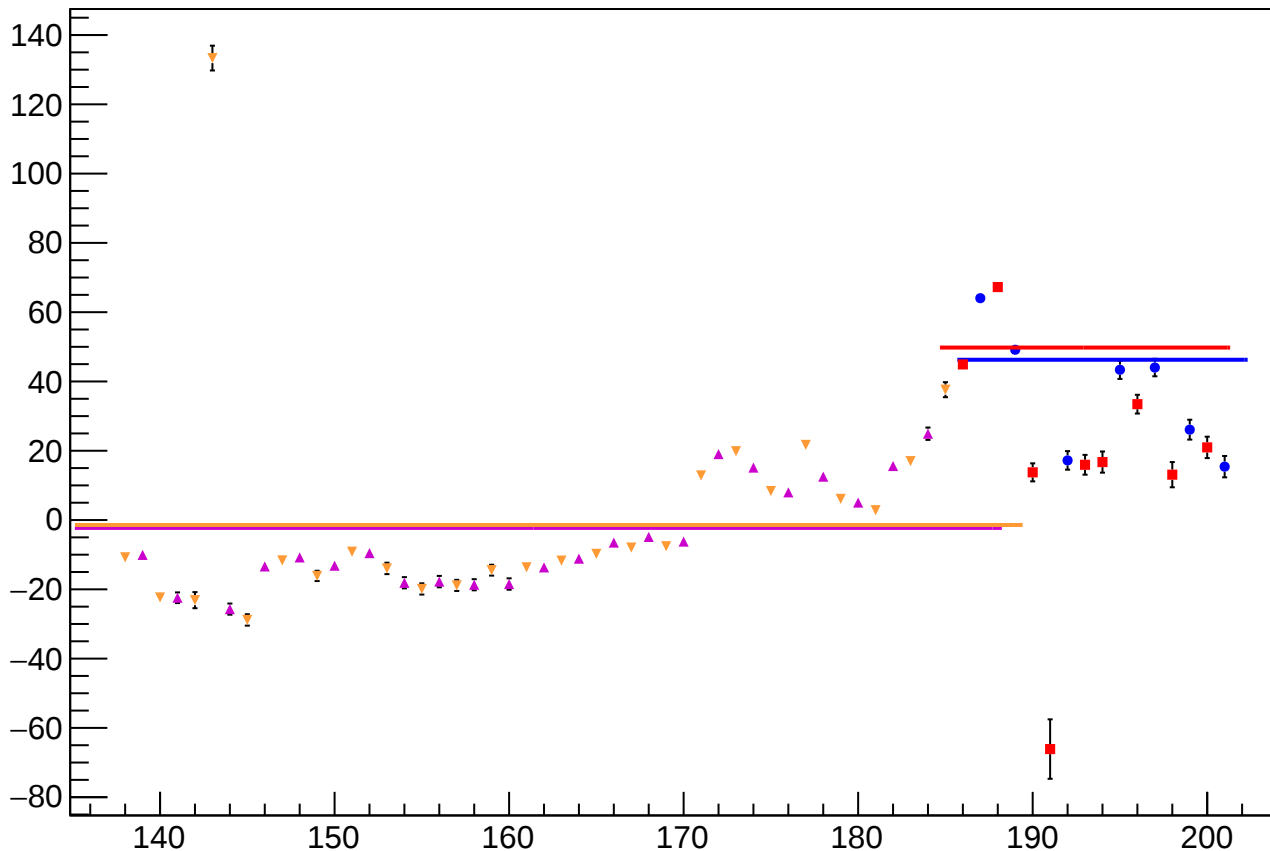
Right: -99.484+/-0.042 χ^2/NDF : 1386535.5/51

In: -128.529+/-0.036 χ^2/NDF : 1108462.1/46

Out: -123.978+/-0.034 χ^2/NDF : 1304250.0/52

All: -126.158+/-0.025 χ^2/NDF : 2421153.9/99

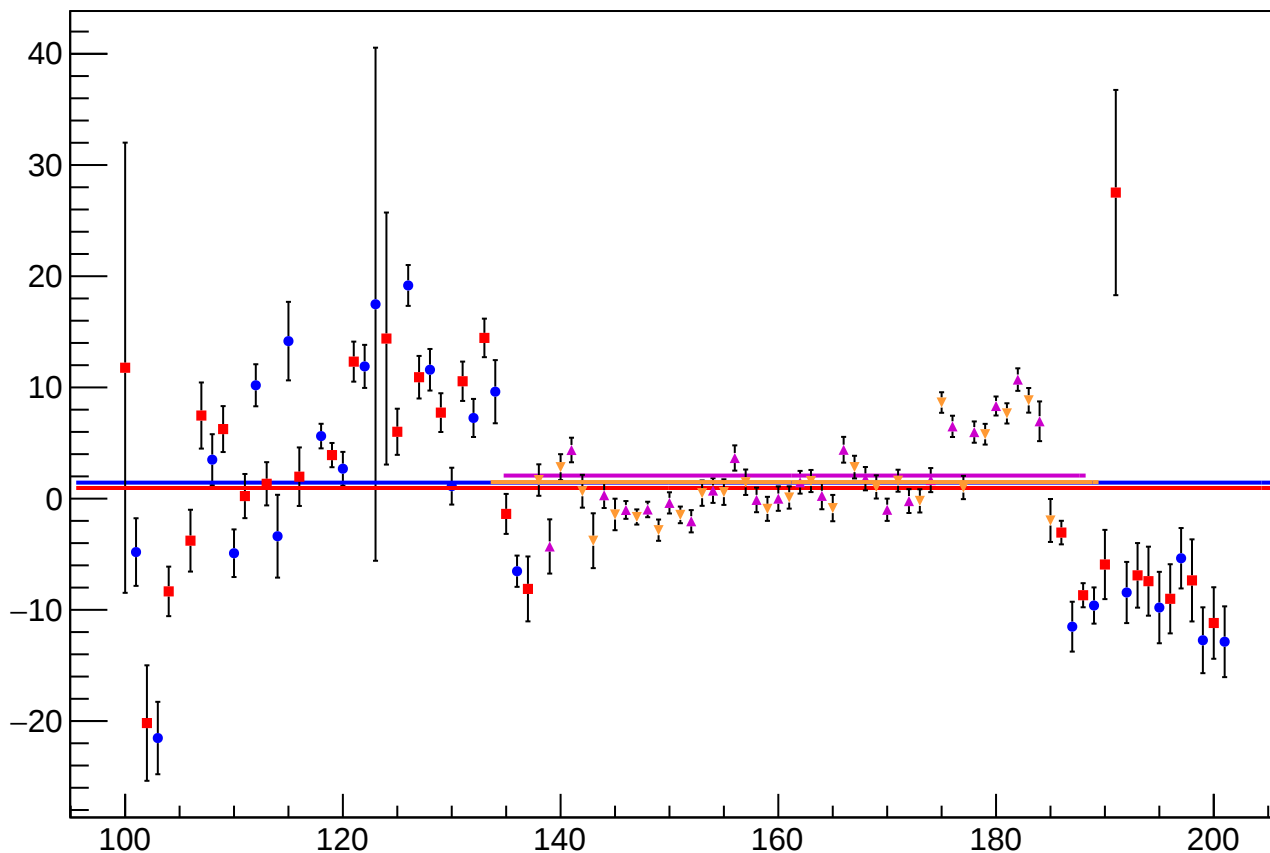
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 46.268 ± 0.778 $\chi^2/\text{NDF}: 436.3/6$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 49.788 ± 0.519 $\chi^2/\text{NDF}: 1396.2/8$
 Left In: -2.270 ± 0.271 $\chi^2/\text{NDF}: 2521.6/22$

Left: -1.844 ± 0.190 $\chi^2/\text{NDF}: 6865.5/47$
 Right: 48.703 ± 0.432 $\chi^2/\text{NDF}: 1846.6/15$
 In: 2.979 ± 0.256 $\chi^2/\text{NDF}: 6433.7/29$
 Out: 9.331 ± 0.238 $\chi^2/\text{NDF}: 13427.3/33$
 All: 6.384 ± 0.174 $\chi^2/\text{NDF}: 20191.8/63$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.440 $\pm$ 0.421 χ^2 /NDF: 472.9/23

Left Out: 1.491 $\pm$ 0.210 χ^2 /NDF:259.1/24

Right Out: 0.957 $\pm$ 0.383 χ^2 /NDF: 398.0/27

Left In: 2.075 $\pm$ 0.215 χ^2 /NDF:274.6/22

Left: 1.776 $\pm$ 0.150 χ^2 /NDF: 537.4/47

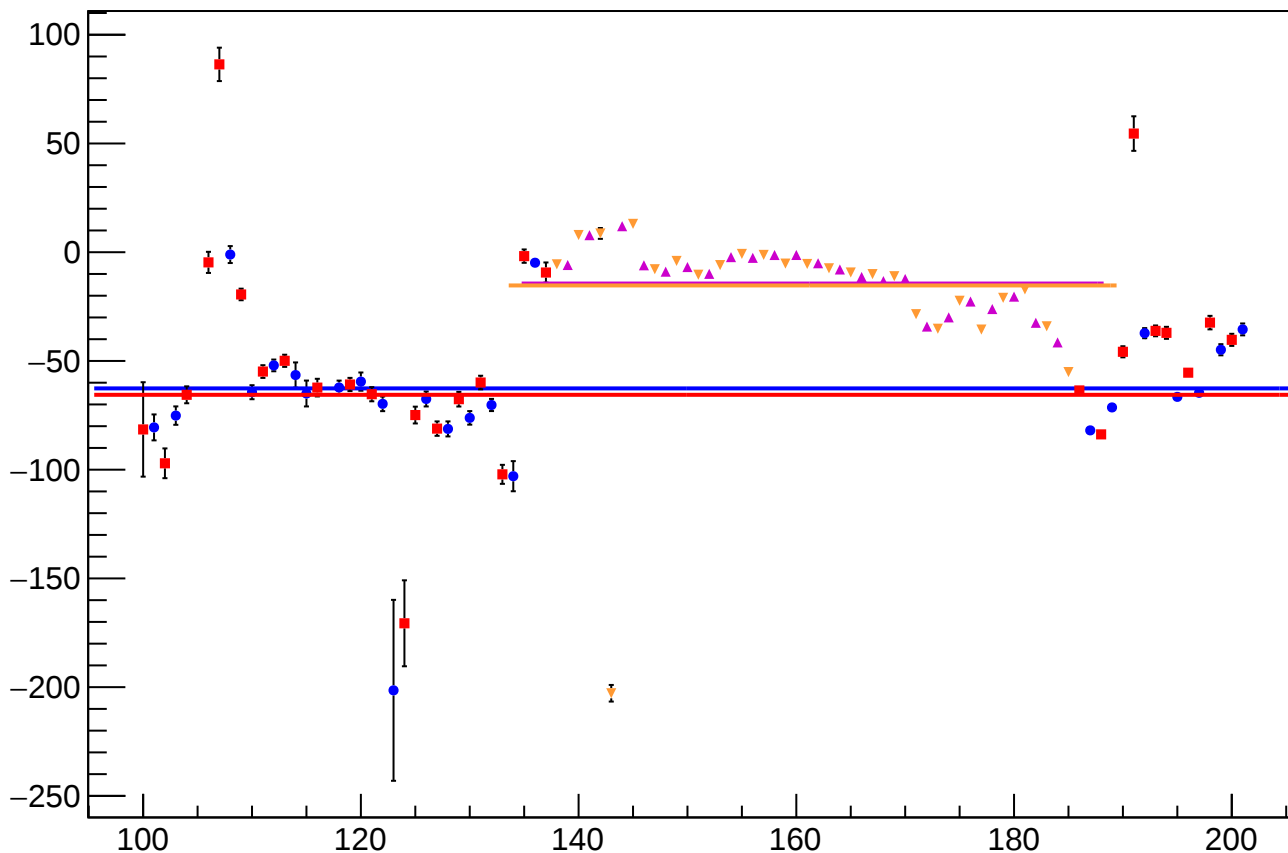
Right: 1.176 $\pm$ 0.283 χ^2 /NDF: 871.7/51

In: 1.943 $\pm$ 0.192 χ^2 /NDF:749.3/46

Out: 1.367 $\pm$ 0.184 χ^2 /NDF:658.6/52

All: 1.644 $\pm$ 0.133 χ^2 /NDF: 1412.5/99

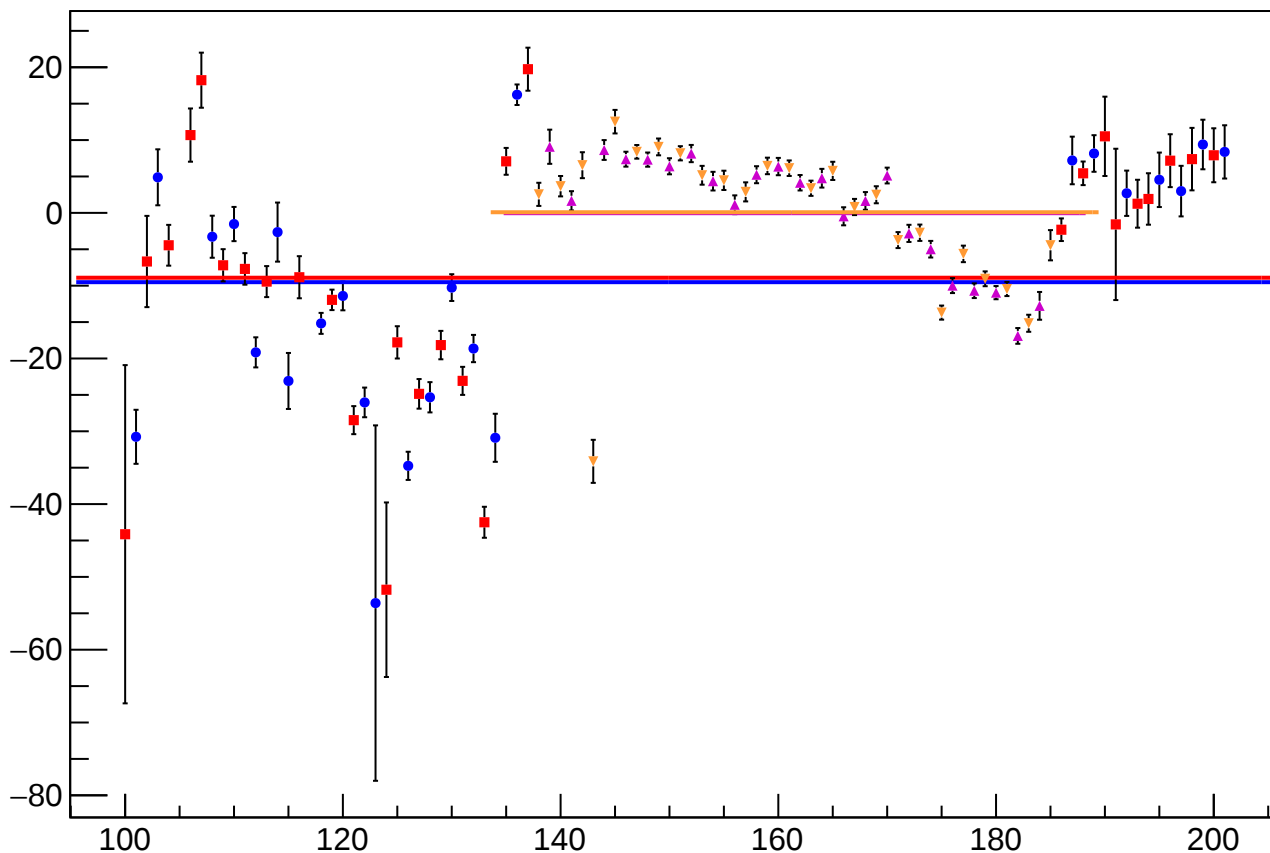
reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.622 ± 0.522 $\chi^2/\text{NDF}: 1710.3/23$
 Left Out: -15.279 ± 0.267 $\chi^2/\text{NDF}: 4820.1/24$
 Right Out: -65.570 ± 0.380 $\chi^2/\text{NDF}: 3241.5/27$
 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: -64.548 ± 0.307 $\chi^2/\text{NDF}: 4972.7/51$
 In: -24.533 ± 0.239 $\chi^2/\text{NDF}: 10485.6/46$
 Out: -31.870 ± 0.218 $\chi^2/\text{NDF}: 19783.9/52$
 All: -28.534 ± 0.161 $\chi^2/\text{NDF}: 30782.6/99$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -9.518 ± 0.492 χ^2/NDF : 985.3/23

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -8.907 ± 0.463 χ^2/NDF : 962.1/27

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

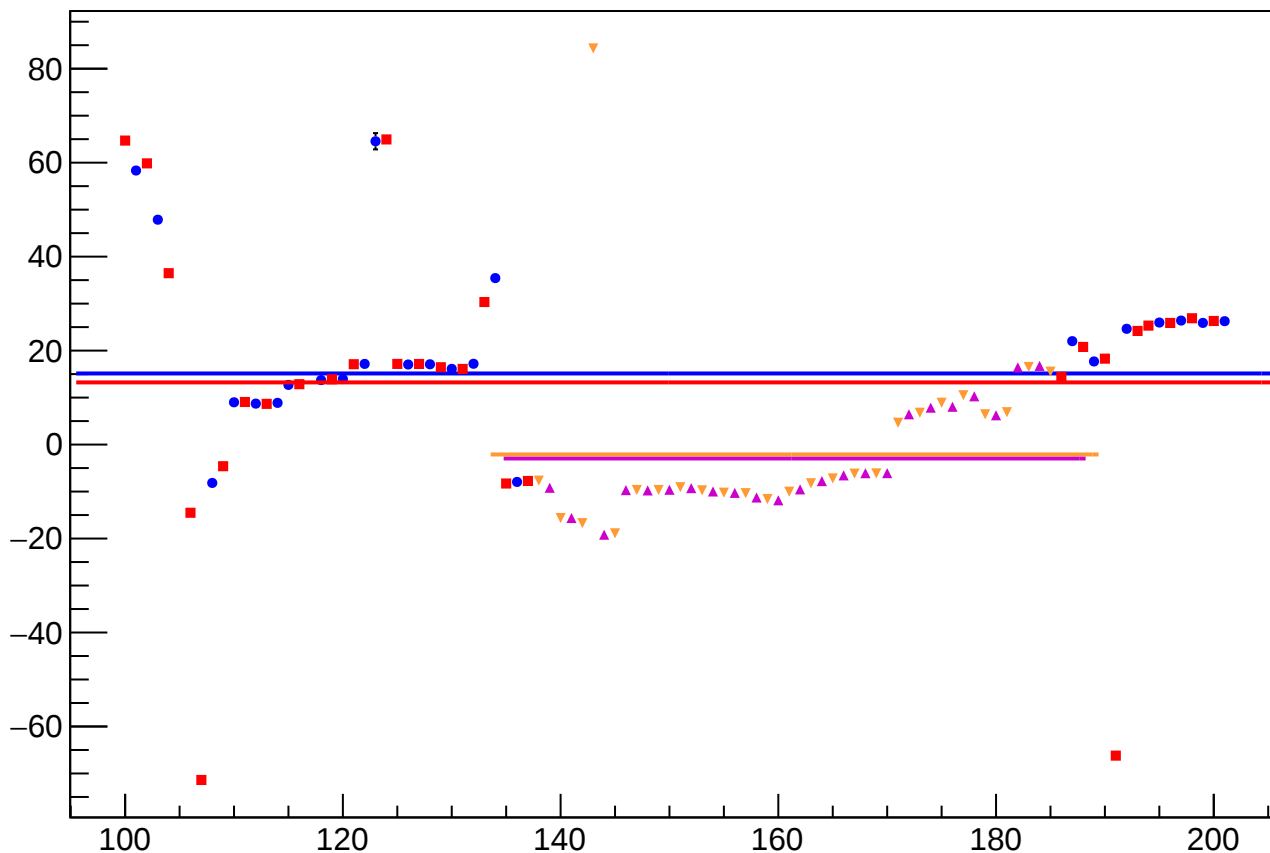
Right: -9.194 ± 0.337 χ^2/NDF : 1948.3/51

In: -1.902 ± 0.218 χ^2/NDF : 2311.6/46

Out: -1.795 ± 0.212 χ^2/NDF : 2432.6/52

All: -1.847 ± 0.152 χ^2/NDF : 4744.3/99

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 15.136+/-0.025 χ^2/NDF : 457676.3/23

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 13.232+/-0.024 χ^2/NDF : 725792.6/27

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

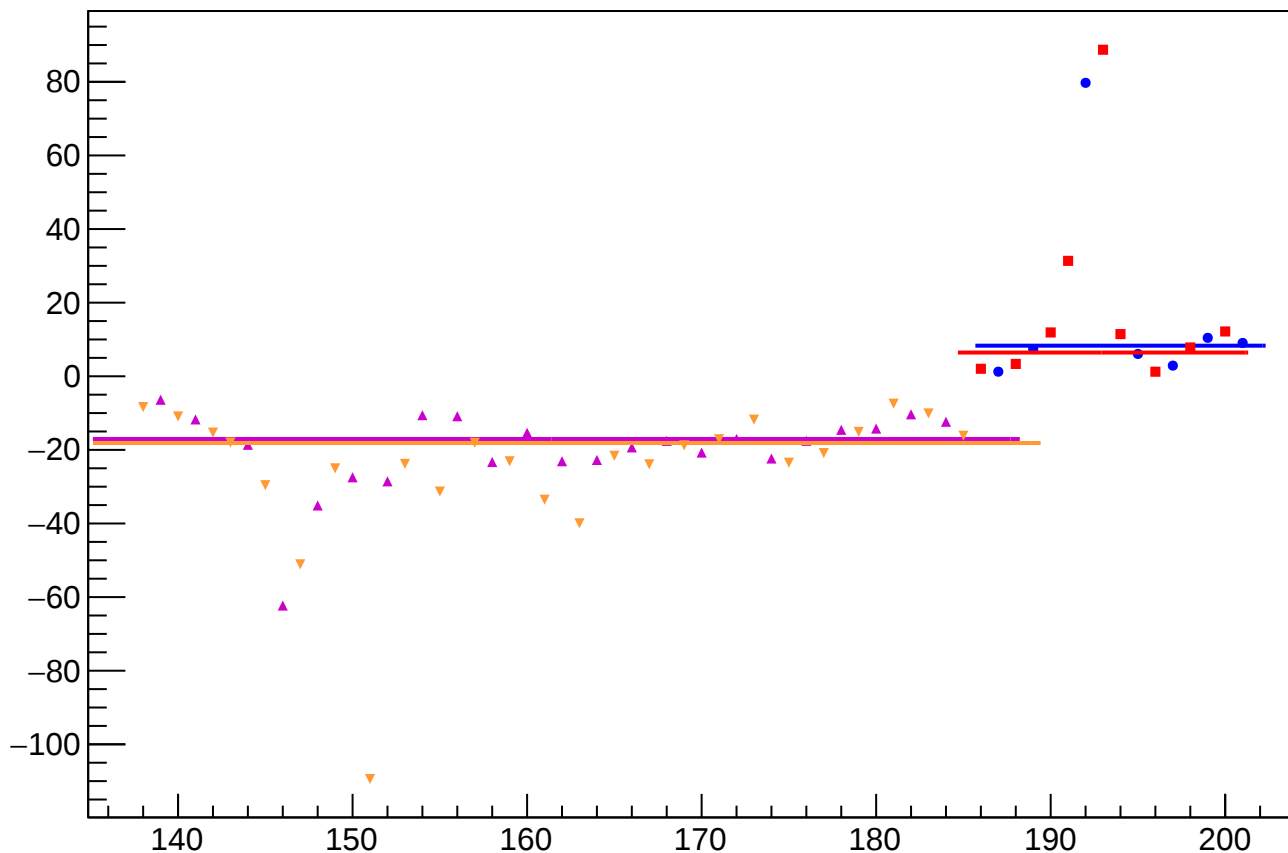
Right: 14.154+/-0.017 χ^2/NDF : 1186466.0/51

In: -0.019+/-0.010 χ^2/NDF : 1660241.6/46

Out: 0.489+/-0.010 χ^2/NDF : 2152463.7/52

All: 0.238+/-0.007 χ^2/NDF : 3813993.7/99

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.313 ± 0.084 $\chi^2/\text{NDF}: 24435.6/6$

Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$

Right Out: 6.447 ± 0.071 $\chi^2/\text{NDF}: 25592.8/8$

Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$

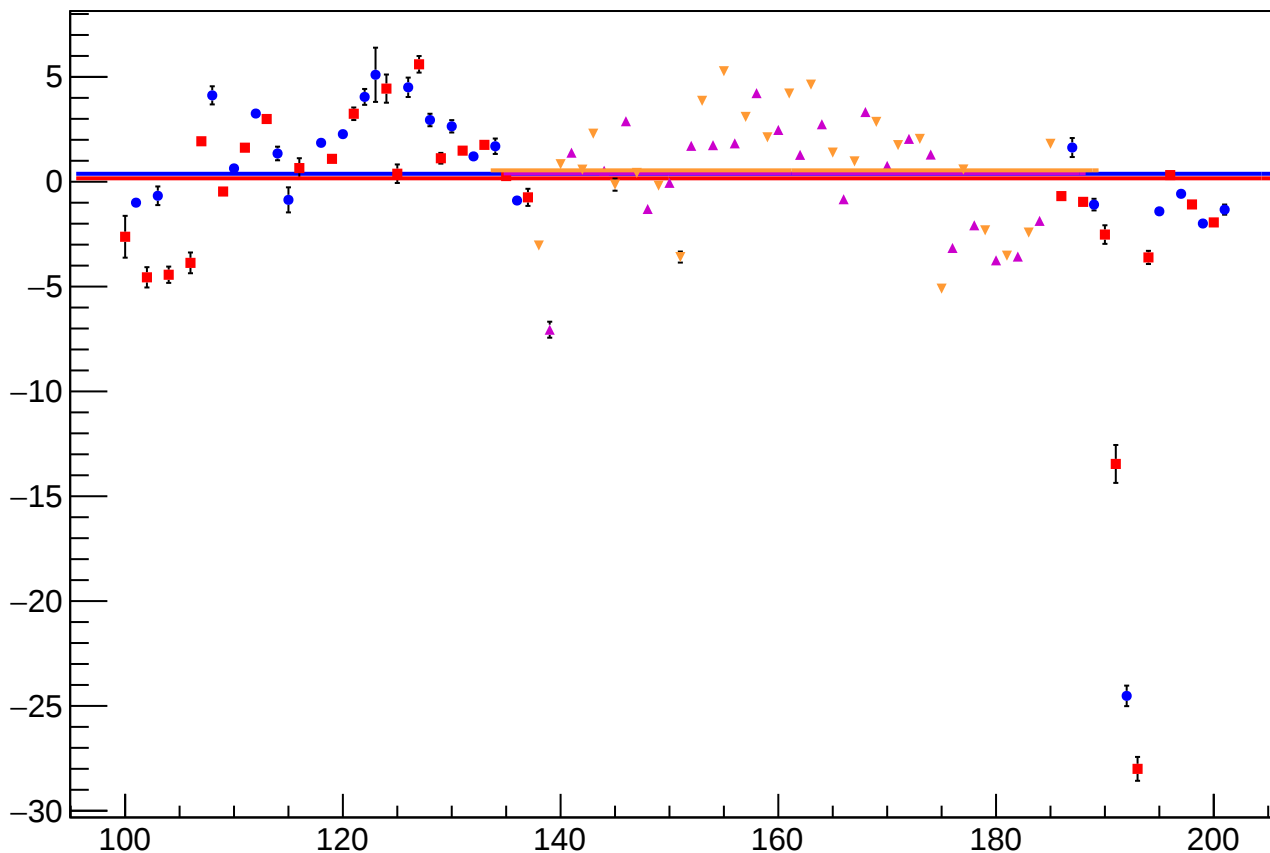
Right: 7.225 ± 0.054 $\chi^2/\text{NDF}: 50318.0/15$

In: -12.677 ± 0.035 $\chi^2/\text{NDF}: 144521.6/29$

Out: -12.422 ± 0.034 $\chi^2/\text{NDF}: 206751.1/33$

All: -12.547 ± 0.024 $\chi^2/\text{NDF}: 351300.4/63$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.379 $\pm$ 0.052 χ^2 /NDF: 3801.7/23

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF: 7085.3/24

Right Out: 0.163 $\pm$ 0.048 χ^2 /NDF: 4210.5/27

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

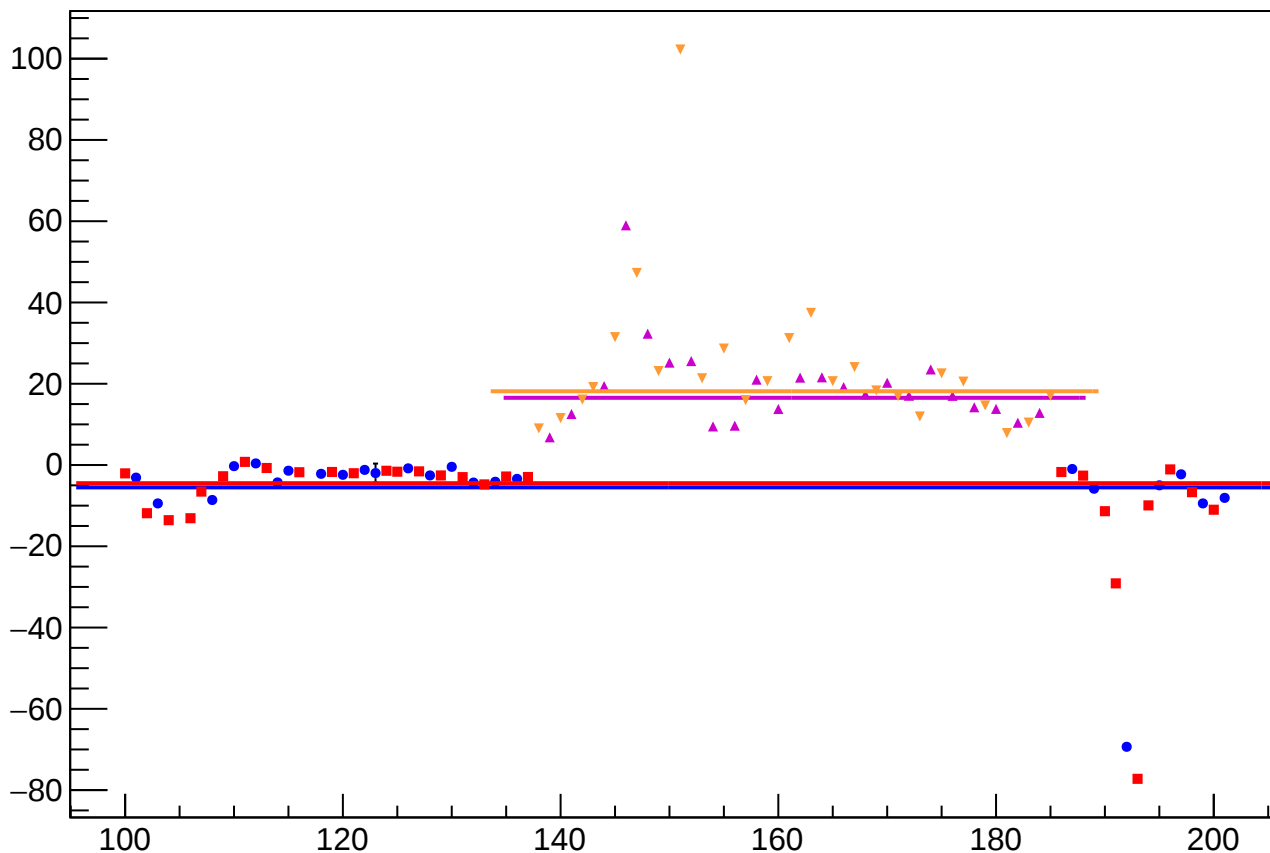
Right: 0.263 $\pm$ 0.035 χ^2 /NDF: 8021.7/51

In: 0.392 $\pm$ 0.026 χ^2 /NDF: 10037.4/46

Out: 0.425 $\pm$ 0.027 χ^2 /NDF: 11338.9/52

All: 0.408 $\pm$ 0.019 χ^2 /NDF: 21377.0/99

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.506+/-0.060 χ^2/NDF : 26553.3/23

Left Out: 18.150+/-0.039 χ^2/NDF : 77847.8/24

Right Out: -4.472+/-0.051 χ^2/NDF : 27564.5/27

Left In: 16.543+/-0.038 χ^2/NDF : 40855.0/22

Left: 17.318+/-0.027 χ^2/NDF : 119577.9/47

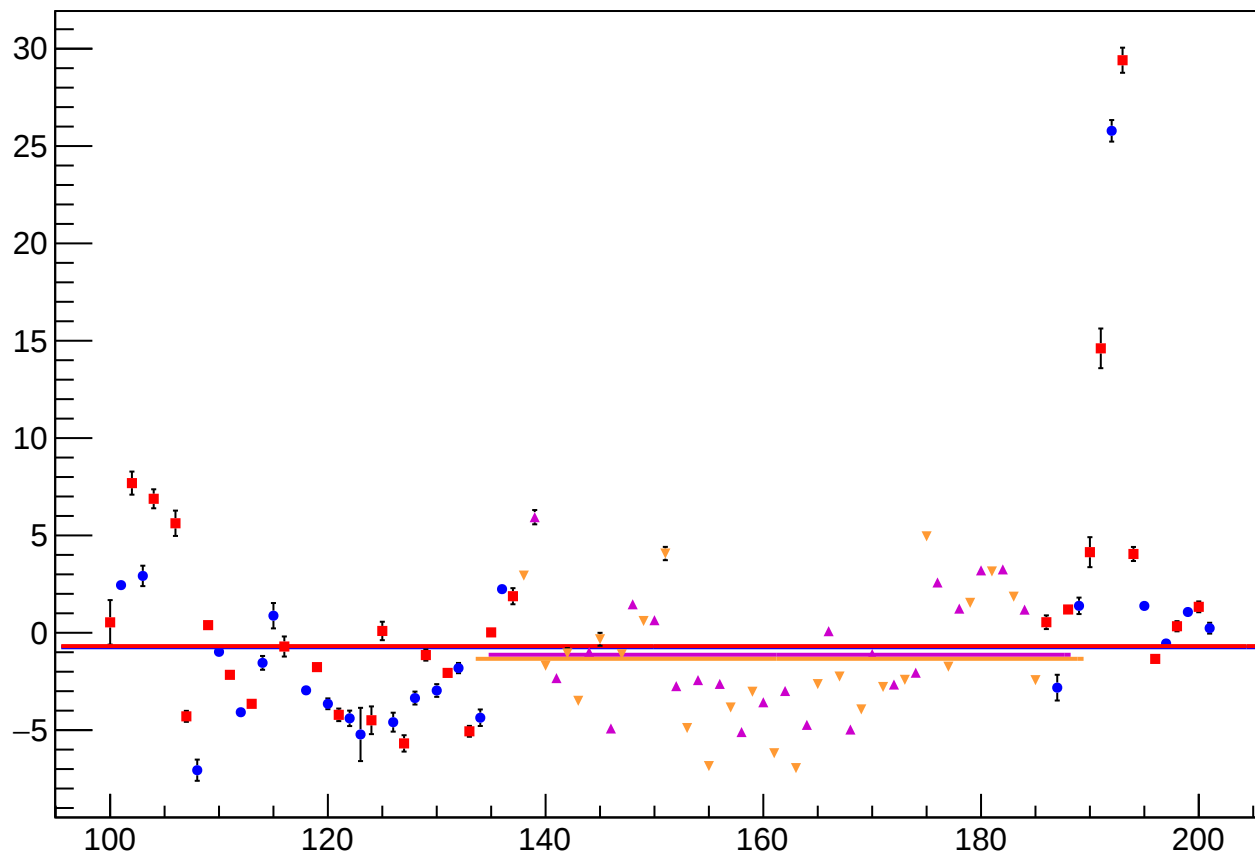
Right: -4.902+/-0.039 χ^2/NDF : 54291.6/51

In: 10.280+/-0.032 χ^2/NDF : 164260.6/46

Out: 9.693+/-0.031 χ^2/NDF : 230587.5/52

All: 9.977+/-0.022 χ^2/NDF : 395022.6/99

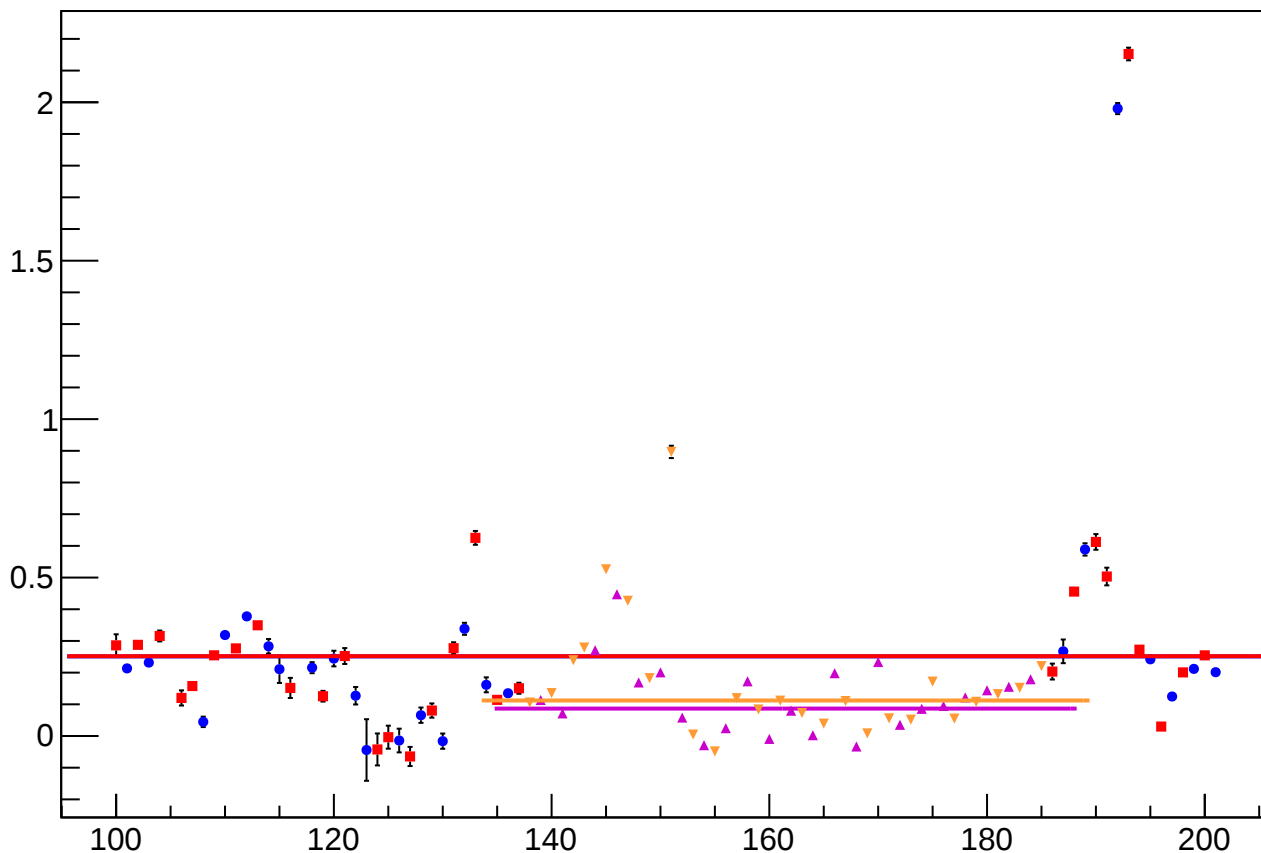
reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.744 ± 0.060 $\chi^2/\text{NDF}: 3889.9/23$
 Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$
 Right Out: -0.684 ± 0.056 $\chi^2/\text{NDF}: 4442.0/27$
 Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$
 Right: -0.712 ± 0.041 $\chi^2/\text{NDF}: 8332.4/51$
 In: -1.036 ± 0.030 $\chi^2/\text{NDF}: 10661.0/46$
 Out: -1.149 ± 0.030 $\chi^2/\text{NDF}: 12480.5/52$
 All: -1.092 ± 0.021 $\chi^2/\text{NDF}: 23148.7/99$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.251 $\pm$ 0.003 χ^2 /NDF: 11170.3/23

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.252 $\pm$ 0.003 χ^2 /NDF: 11580.1/27

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

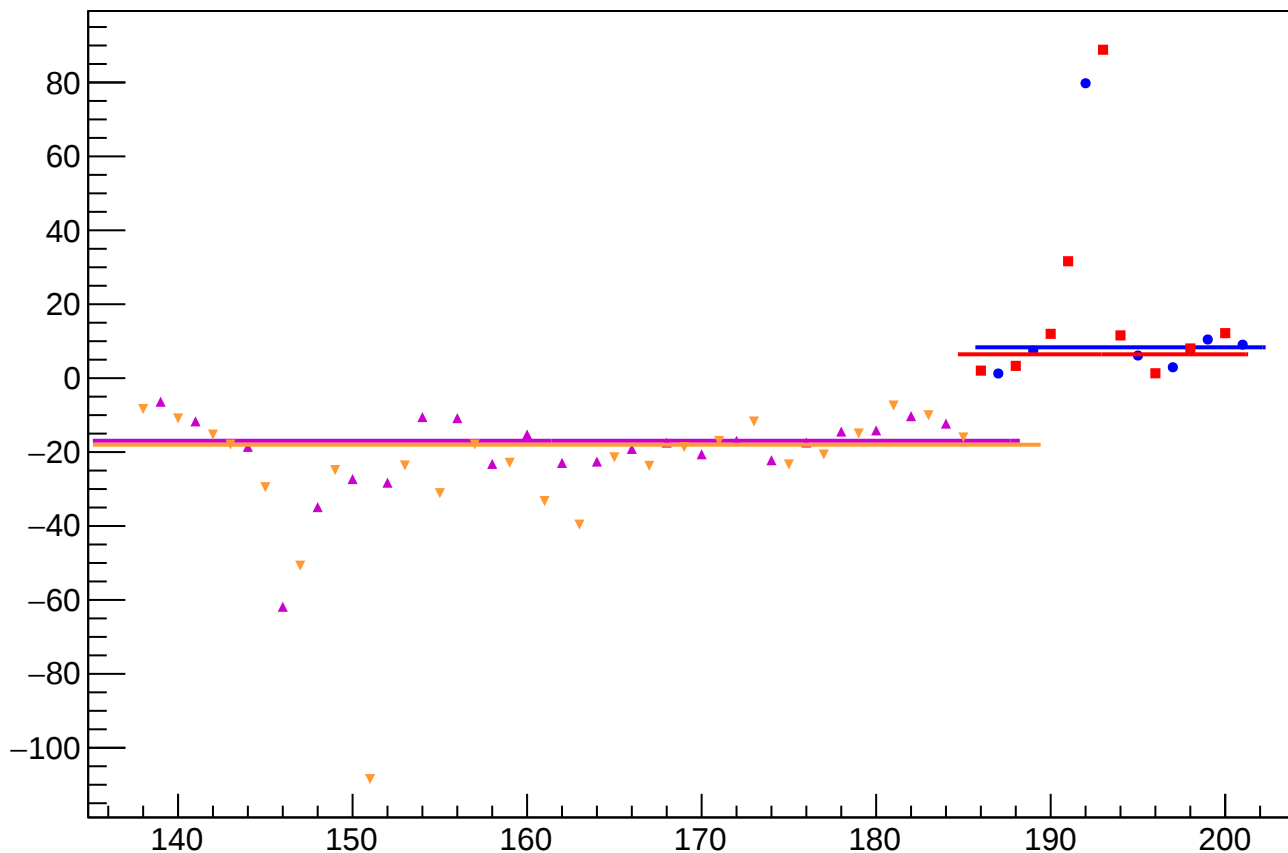
Right: 0.252 $\pm$ 0.002 χ^2 /NDF: 22750.4/51

In: 0.125 $\pm$ 0.001 χ^2 /NDF:17643.6/46

Out: 0.150 $\pm$ 0.001 χ^2 /NDF:18148.3/52

All: 0.137 $\pm$ 0.001 χ^2 /NDF: 35965.7/99

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.347 ± 0.083 $\chi^2/\text{NDF}: 24619.4/6$

Left Out: -18.005 ± 0.039 $\chi^2/\text{NDF}: 88391.0/24$

Right Out: 6.454 ± 0.070 $\chi^2/\text{NDF}: 25947.3/8$

Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$

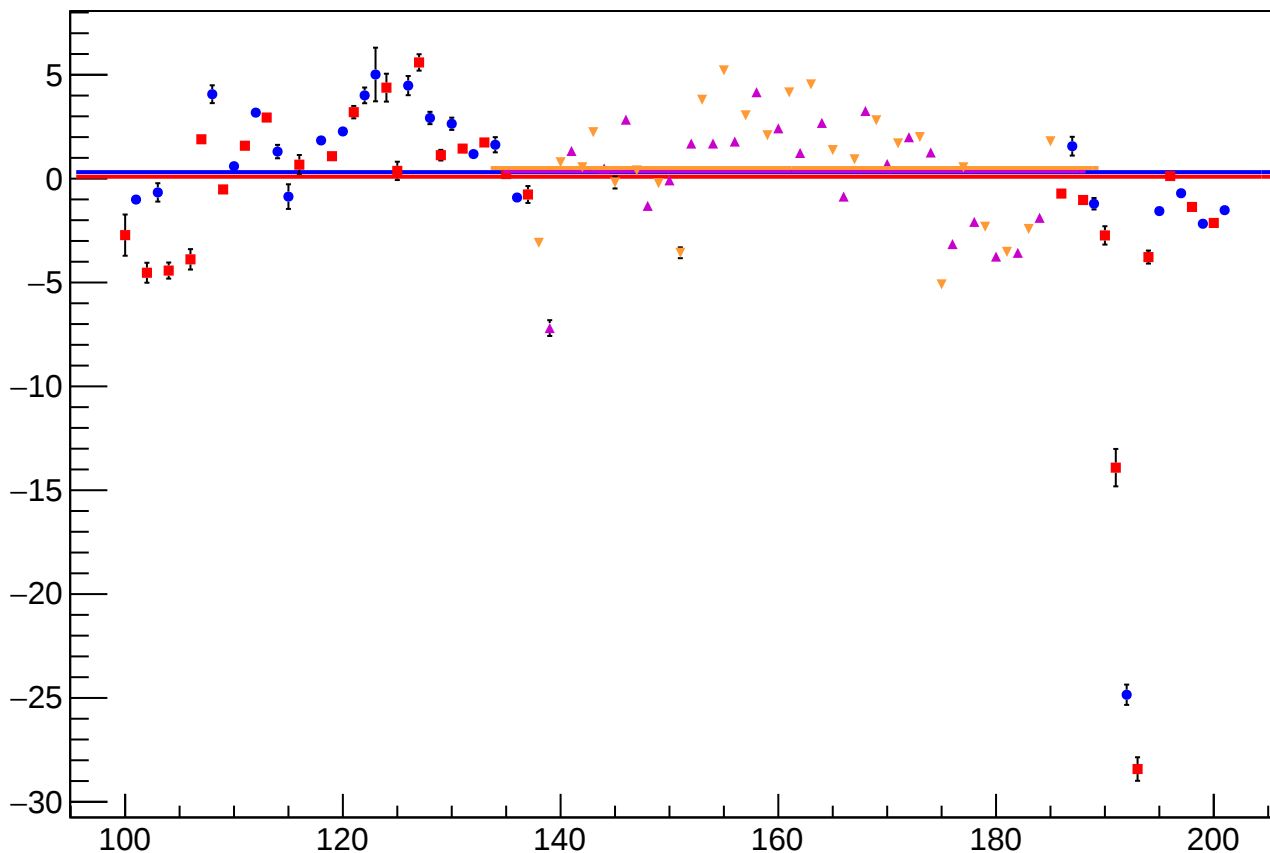
Right: 7.240 ± 0.054 $\chi^2/\text{NDF}: 50868.6/15$

In: -12.599 ± 0.035 $\chi^2/\text{NDF}: 144963.3/29$

Out: -12.313 ± 0.034 $\chi^2/\text{NDF}: 207587.0/33$

All: -12.453 ± 0.024 $\chi^2/\text{NDF}: 352585.5/63$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.314+/-0.051 χ^2/NDF : 3931.6/23

Left Out: 0.511+/-0.032 χ^2/NDF : 7070.4/24

Right Out: 0.092+/-0.048 χ^2/NDF : 4371.5/27

Left In: 0.360+/-0.031 χ^2/NDF : 6221.1/22

Left: 0.432+/-0.022 χ^2/NDF : 13303.2/47

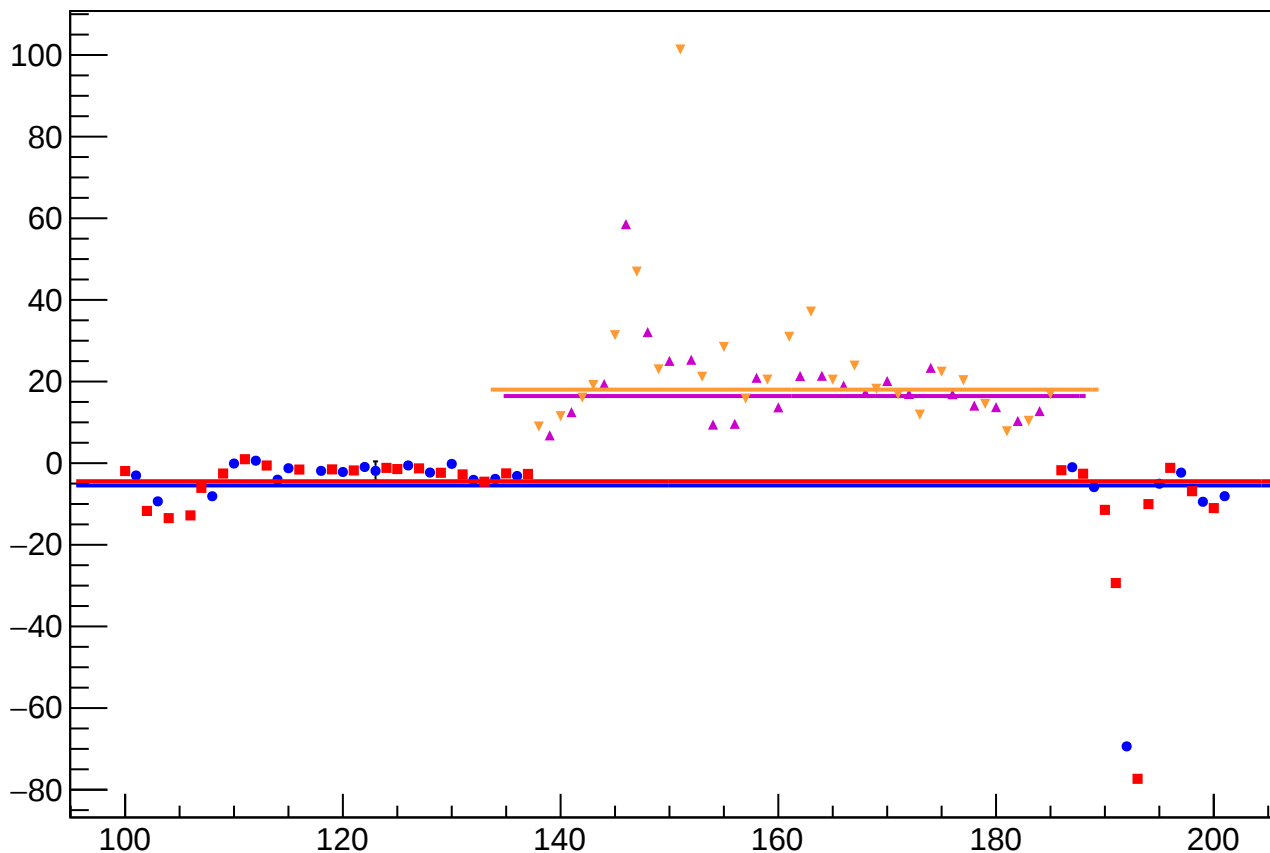
Right: 0.195+/-0.035 χ^2/NDF : 8313.1/51

In: 0.348+/-0.026 χ^2/NDF : 10153.3/46

Out: 0.381+/-0.027 χ^2/NDF : 11494.9/52

All: 0.364+/-0.019 χ^2/NDF : 21649.0/99

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.459+/-0.060 χ^2/NDF : 26885.9/23

Left Out: 18.027+/-0.039 χ^2/NDF : 77718.1/24

Right Out: -4.418+/-0.050 χ^2/NDF : 28030.0/27

Left In: 16.443+/-0.038 χ^2/NDF : 40780.6/22

Left: 17.207+/-0.027 χ^2/NDF : 119360.0/47

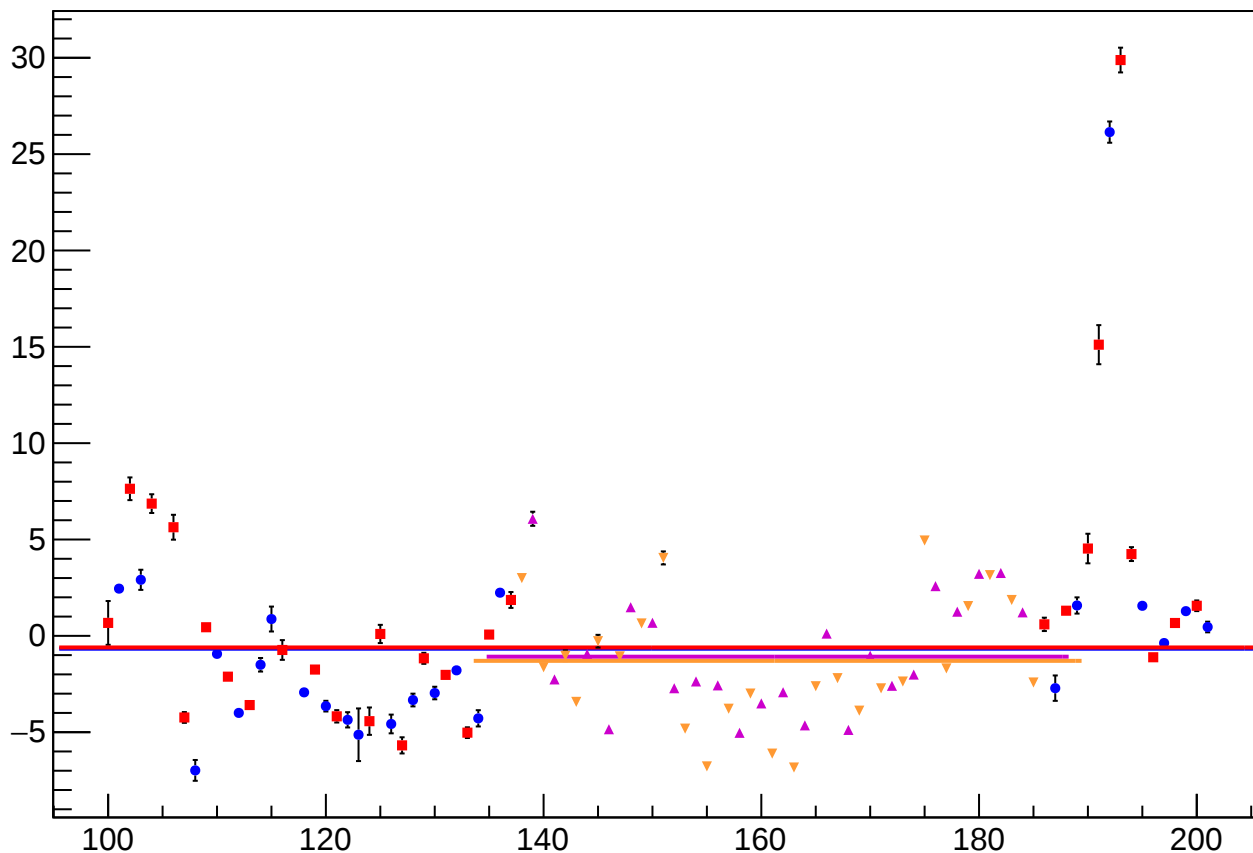
Right: -4.850+/-0.038 χ^2/NDF : 55094.3/51

In: 10.239+/-0.032 χ^2/NDF : 164246.1/46

Out: 9.627+/-0.031 χ^2/NDF : 230845.5/52

All: 9.923+/-0.022 χ^2/NDF : 395283.1/99

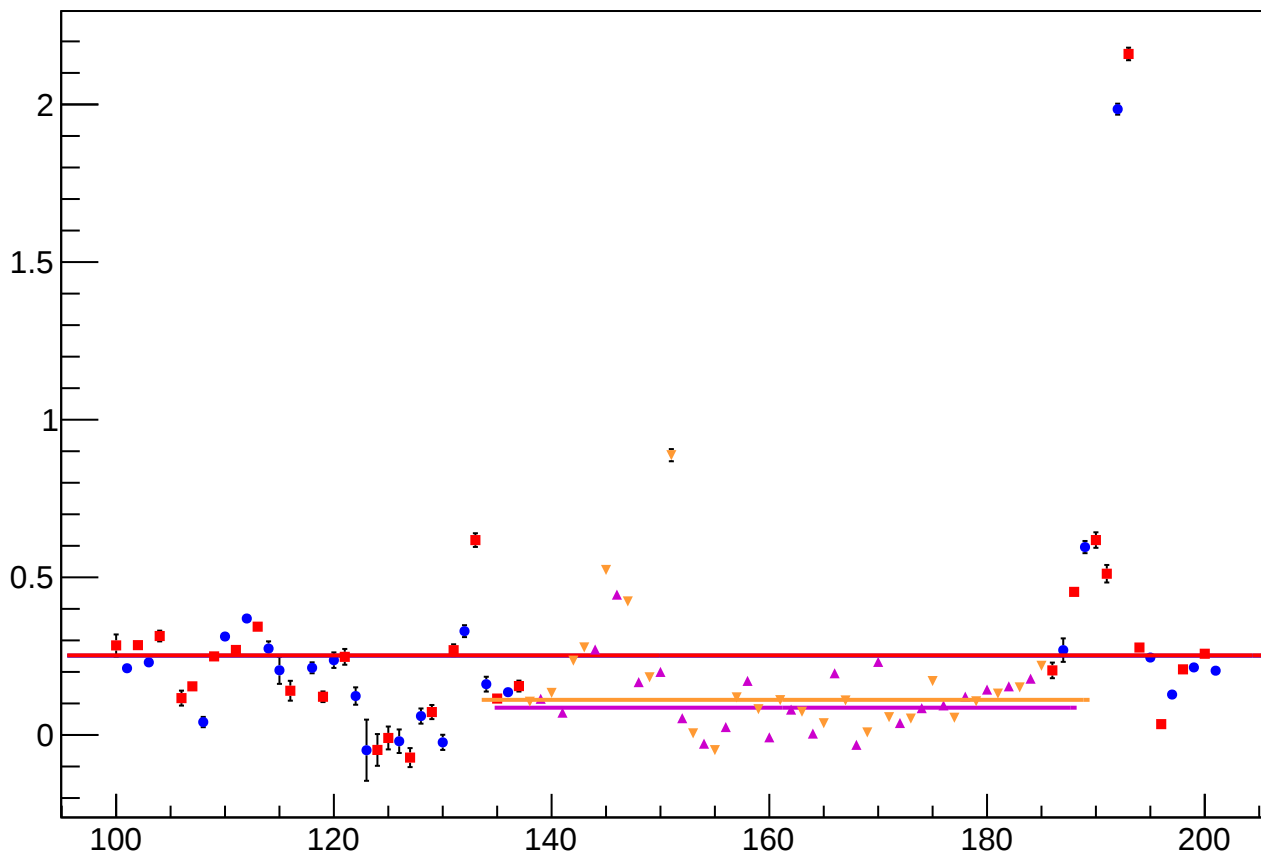
reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.668 ± 0.060 χ^2/NDF : 3995.8/23
 Left Out: -1.297 ± 0.036 χ^2/NDF : 7925.1/24
 Right Out: -0.602 ± 0.056 χ^2/NDF : 4592.2/27
 Left In: -1.082 ± 0.034 χ^2/NDF : 6724.1/22

Left: -1.184 ± 0.025 χ^2/NDF : 14668.4/47
 Right: -0.633 ± 0.041 χ^2/NDF : 8588.6/51
 In: -0.982 ± 0.030 χ^2/NDF : 10755.8/46
 Out: -1.097 ± 0.030 χ^2/NDF : 12626.5/52
 All: -1.038 ± 0.021 χ^2/NDF : 23389.9/99

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.252 $\pm$ 0.003 χ^2 /NDF: 11297.4/23

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.253 $\pm$ 0.003 χ^2 /NDF: 11715.1/27

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

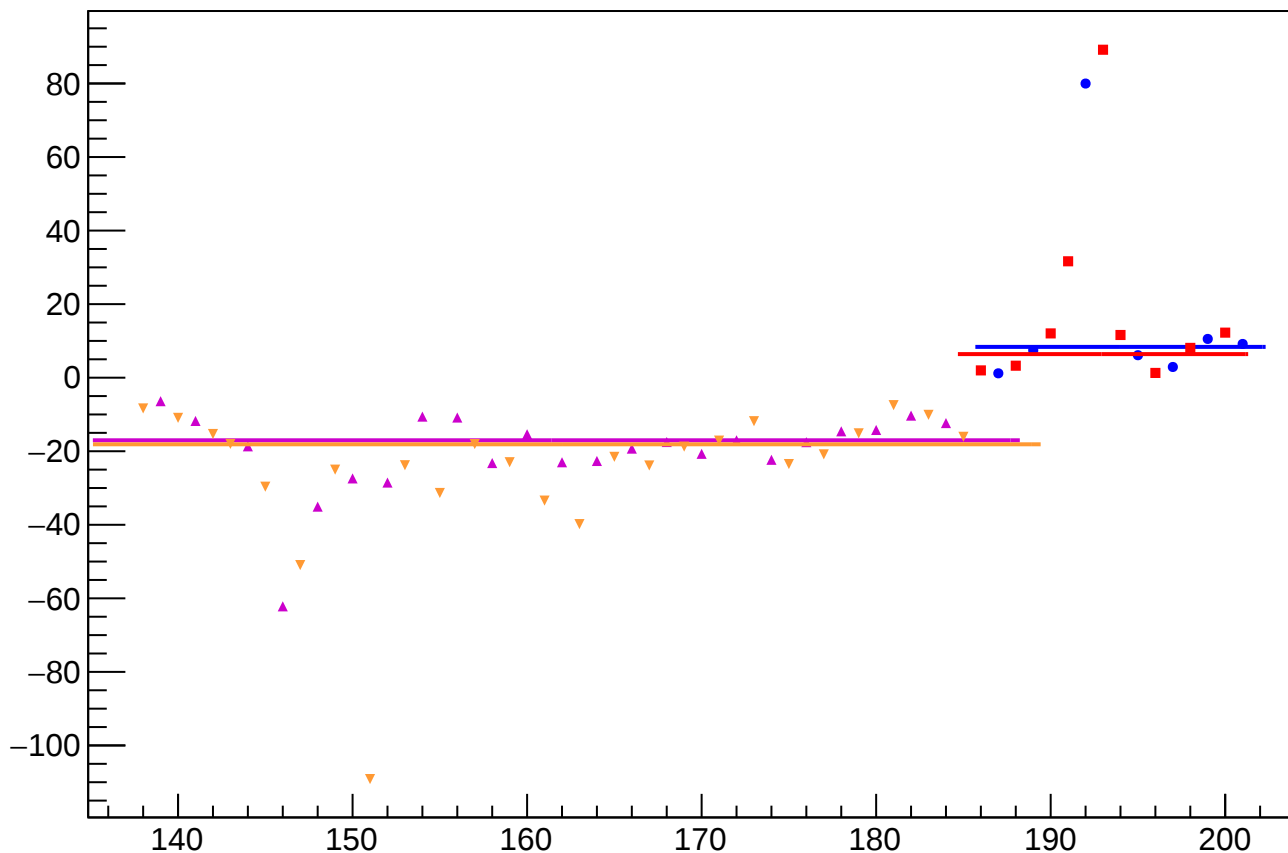
Right: 0.252 $\pm$ 0.002 χ^2 /NDF: 23012.6/51

In: 0.125 $\pm$ 0.001 χ^2 /NDF:17780.8/46

Out: 0.150 $\pm$ 0.001 χ^2 /NDF:18340.1/52

All: 0.137 $\pm$ 0.001 χ^2 /NDF: 36291.1/99

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.374 ± 0.084 $\chi^2/\text{NDF}: 24616.1/6$

Left Out: -18.112 ± 0.039 $\chi^2/\text{NDF}: 88529.7/24$

Right Out: 6.413 ± 0.070 $\chi^2/\text{NDF}: 25987.1/8$

Left In: -17.024 ± 0.038 $\chi^2/\text{NDF}: 44141.8/22$

Left: -17.557 ± 0.027 $\chi^2/\text{NDF}: 133072.9/47$

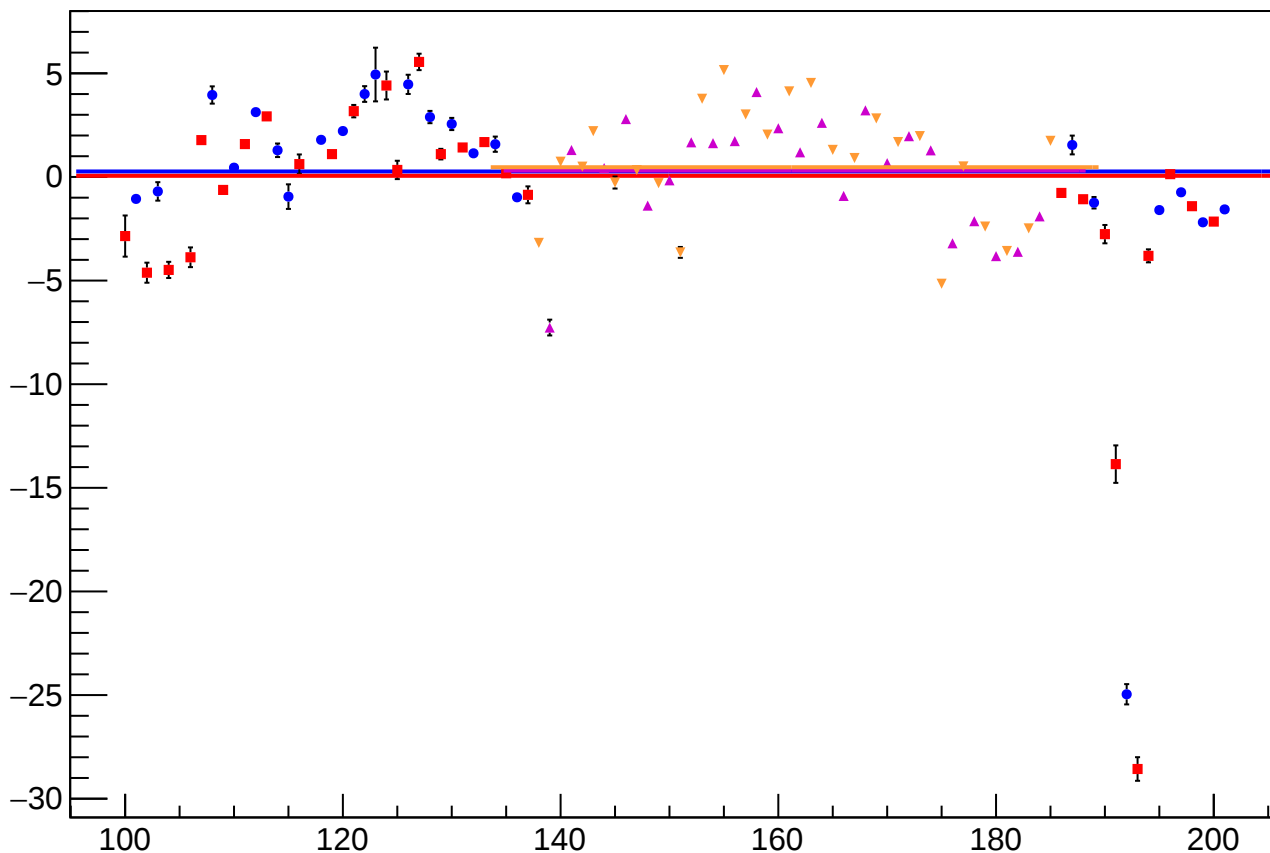
Right: 7.222 ± 0.054 $\chi^2/\text{NDF}: 50924.4/15$

In: -12.689 ± 0.035 $\chi^2/\text{NDF}: 144804.4/29$

Out: -12.383 ± 0.034 $\chi^2/\text{NDF}: 207832.0/33$

All: -12.533 ± 0.024 $\chi^2/\text{NDF}: 352676.1/63$

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.265 $\pm$ 0.052 χ^2 /NDF: 3916.1/23

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF: 7093.0/24

Right Out: 0.055 $\pm$ 0.048 χ^2 /NDF: 4367.6/27

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

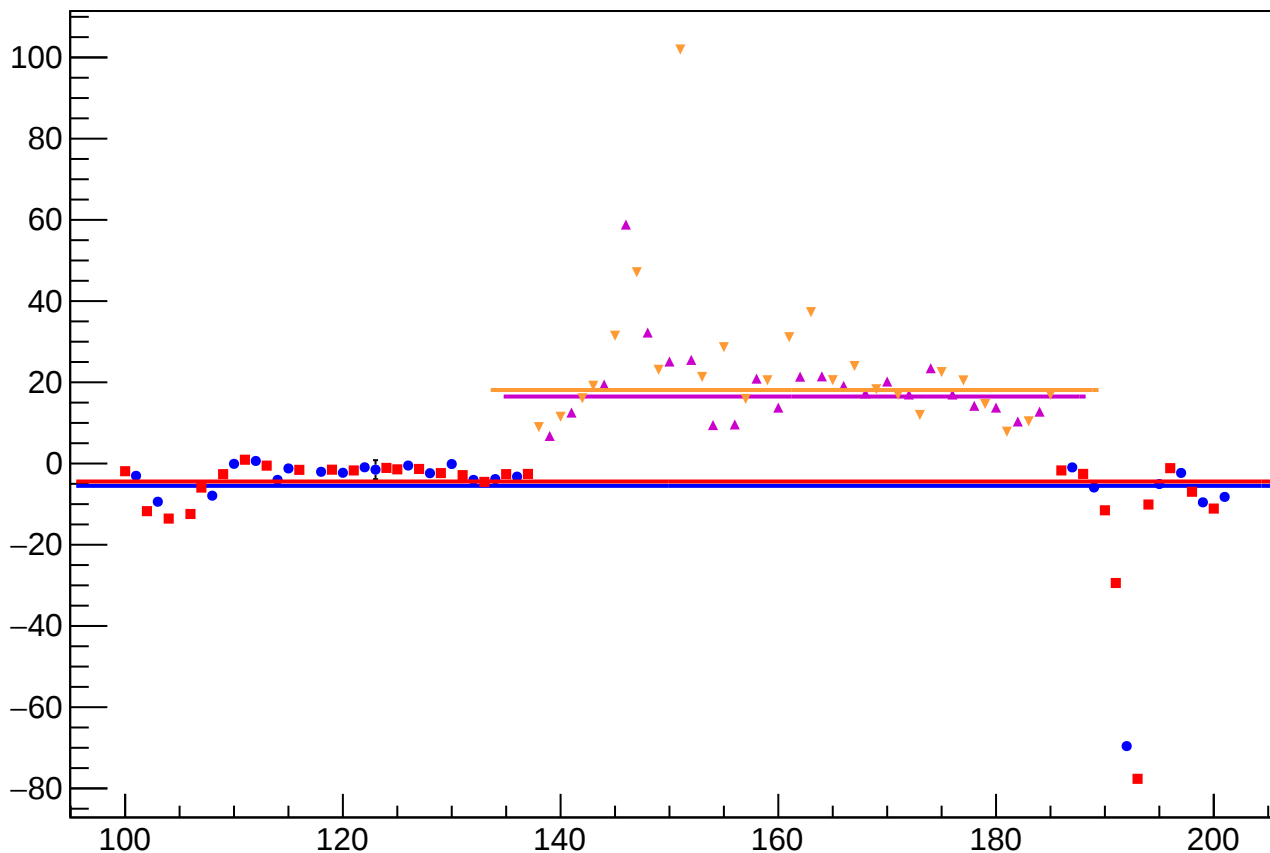
Right: 0.152 $\pm$ 0.035 χ^2 /NDF: 8292.6/51

In: 0.299 $\pm$ 0.026 χ^2 /NDF: 10099.8/46

Out: 0.340 $\pm$ 0.027 χ^2 /NDF: 11511.9/52

All: 0.319 $\pm$ 0.019 χ^2 /NDF: 21612.9/99

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.496+/-0.060 χ^2/NDF : 26887.5/23

Left Out: 18.101+/-0.039 χ^2/NDF : 77839.7/24

Right Out: -4.422+/-0.050 χ^2/NDF : 28042.8/27

Left In: 16.496+/-0.038 χ^2/NDF : 40867.3/22

Left: 17.270+/-0.027 χ^2/NDF : 119584.1/47

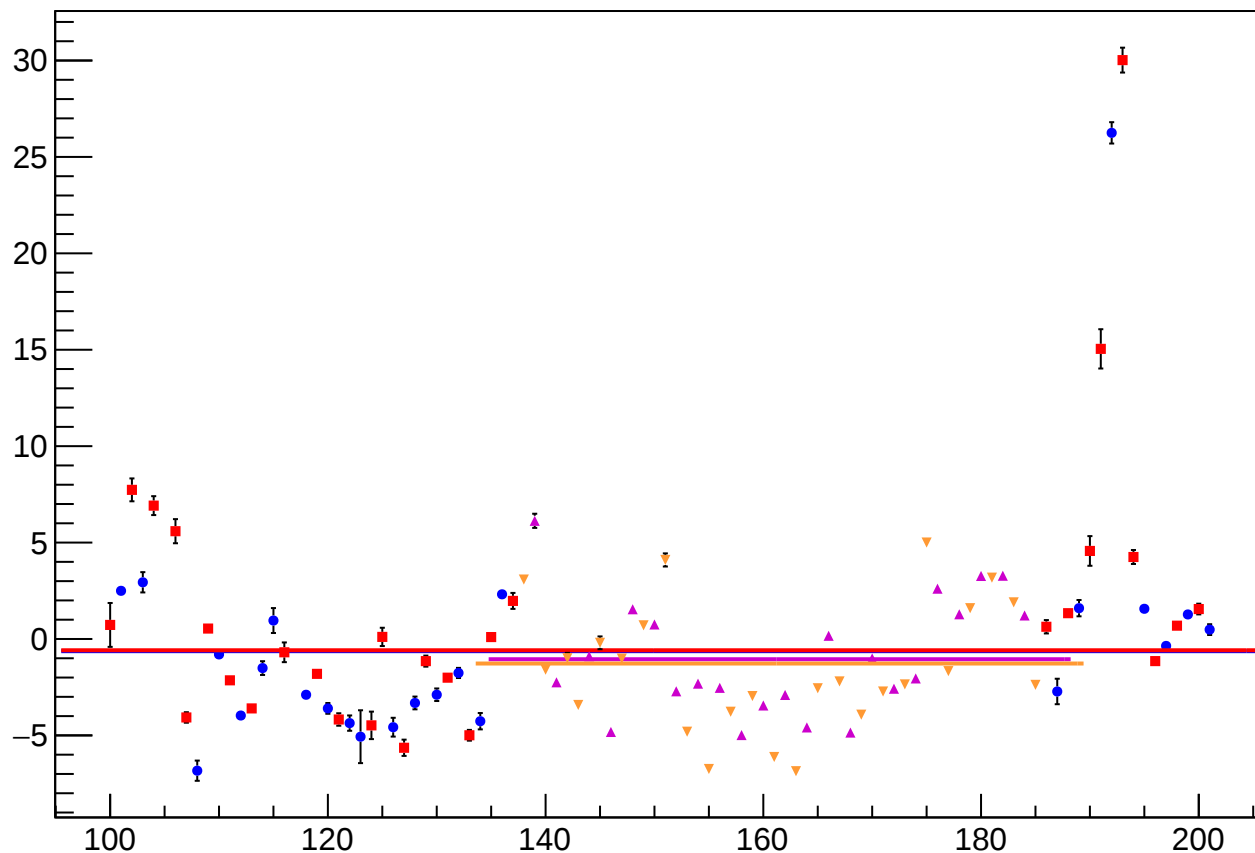
Right: -4.865+/-0.039 χ^2/NDF : 55118.2/51

In: 10.288+/-0.032 χ^2/NDF : 164046.5/46

Out: 9.652+/-0.031 χ^2/NDF : 231072.0/52

All: 9.959+/-0.022 χ^2/NDF : 395323.9/99

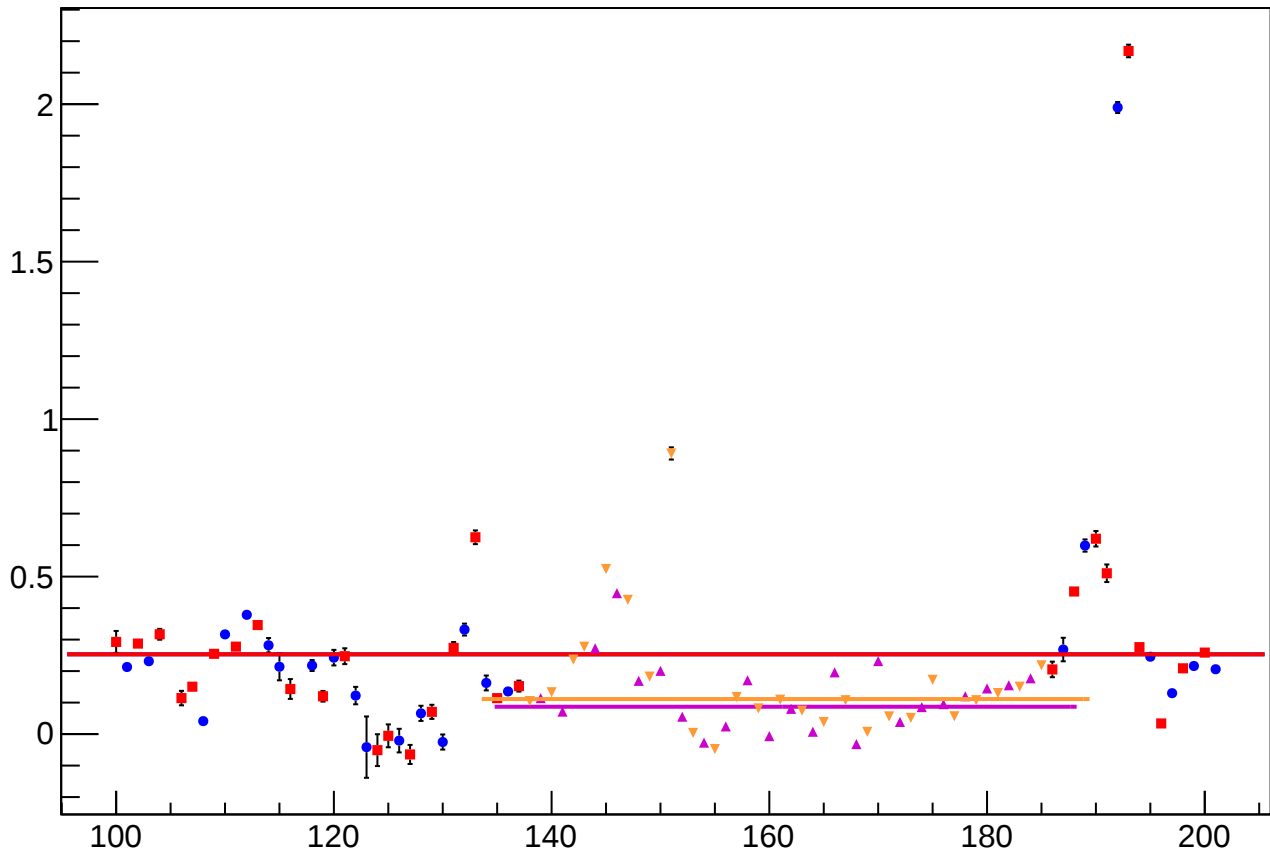
reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.632 ± 0.060 χ^2/NDF : 3984.8/23
 Left Out: -1.273 ± 0.036 χ^2/NDF : 7951.6/24
 Right Out: -0.585 ± 0.056 χ^2/NDF : 4591.6/27
 Left In: -1.050 ± 0.034 χ^2/NDF : 6673.4/22

Left: -1.156 ± 0.025 χ^2/NDF : 14645.3/47
 Right: -0.607 ± 0.041 χ^2/NDF : 8576.7/51
 In: -0.950 ± 0.030 χ^2/NDF : 10694.5/46
 Out: -1.075 ± 0.030 χ^2/NDF : 12649.5/52
 All: -1.011 ± 0.021 χ^2/NDF : 23352.8/99

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.253+/-0.003 χ^2/NDF : 11288.3/23

Left Out: 0.111+/-0.002 χ^2/NDF : 4474.5/24

Right Out: 0.253+/-0.003 χ^2/NDF : 11730.8/27

Left In: 0.087+/-0.001 χ^2/NDF : 3598.5/22

Left: 0.098+/-0.001 χ^2/NDF : 8197.1/47

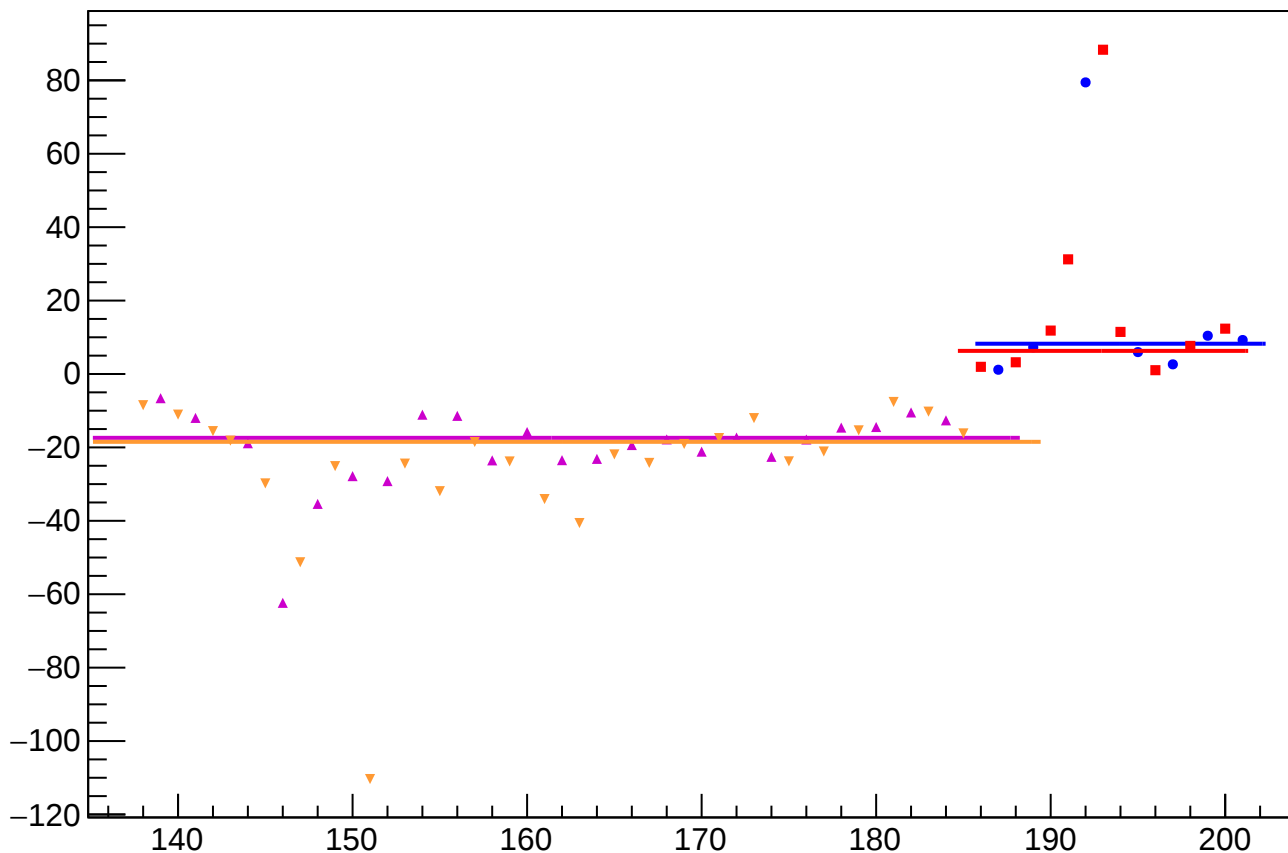
Right: 0.253+/-0.002 χ^2/NDF : 23019.1/51

In: 0.126+/-0.001 χ^2/NDF : 17763.2/46

Out: 0.150+/-0.001 χ^2/NDF : 18346.2/52

All: 0.137+/-0.001 χ^2/NDF : 36272.5/99

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.249+/-0.084 χ^2/NDF : 24278.3/6

Left Out: -18.479+/-0.040 χ^2/NDF : 87883.4/24

Right Out: 6.298+/-0.071 χ^2/NDF : 25520.3/8

Left In: -17.393+/-0.039 χ^2/NDF : 43178.9/22

Left: -17.926+/-0.028 χ^2/NDF : 131443.9/47

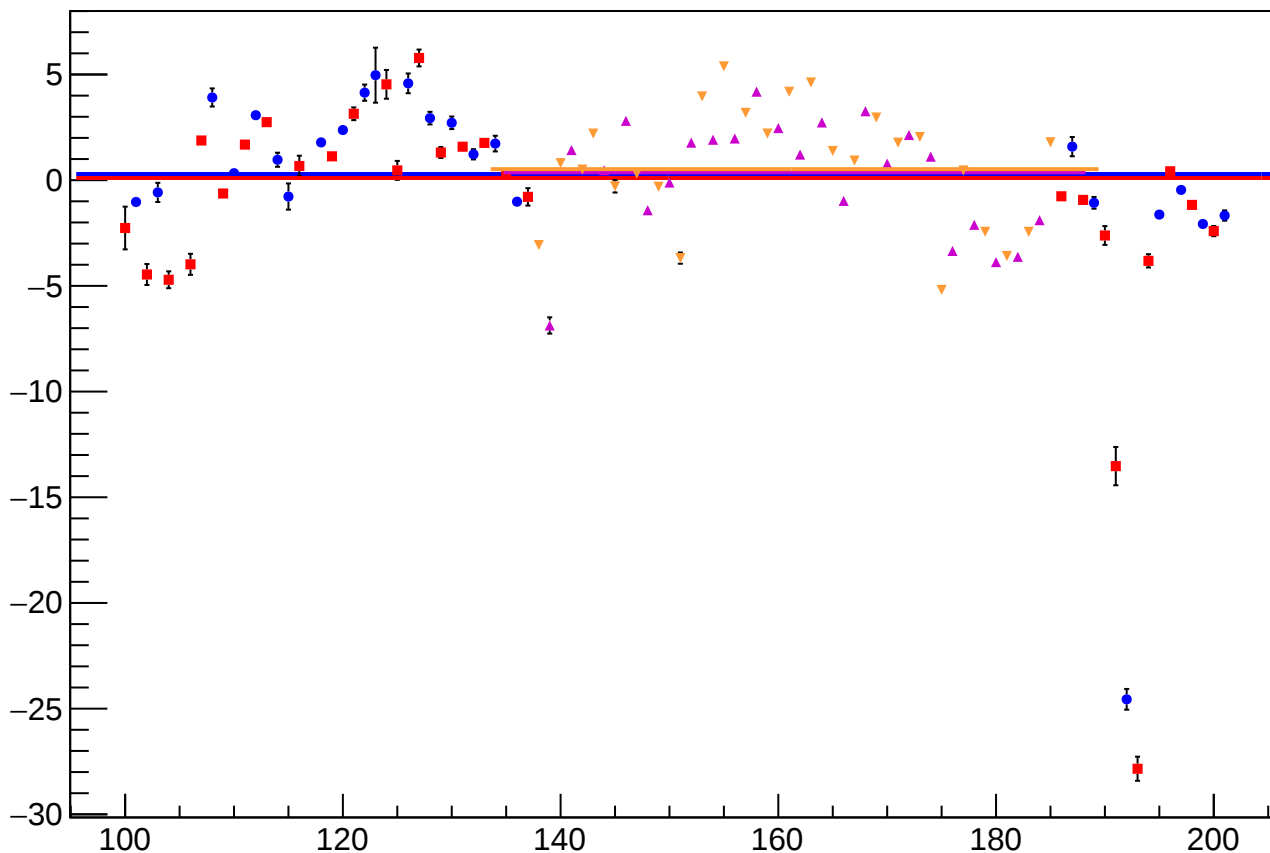
Right: 7.101+/-0.054 χ^2/NDF : 50113.0/15

In: -12.885+/-0.035 χ^2/NDF : 143619.8/29

Out: -12.521+/-0.035 χ^2/NDF : 207063.0/33

All: -12.699+/-0.025 χ^2/NDF : 350736.7/63

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.292 ± 0.052 $\chi^2/\text{NDF}: 3793.3/23$

Left Out: 0.522 ± 0.033 $\chi^2/\text{NDF}: 7055.1/24$

Right Out: 0.103 ± 0.049 $\chi^2/\text{NDF}: 4204.5/27$

Left In: 0.371 ± 0.031 $\chi^2/\text{NDF}: 6217.4/22$

Left: 0.443 ± 0.023 $\chi^2/\text{NDF}: 13283.4/47$

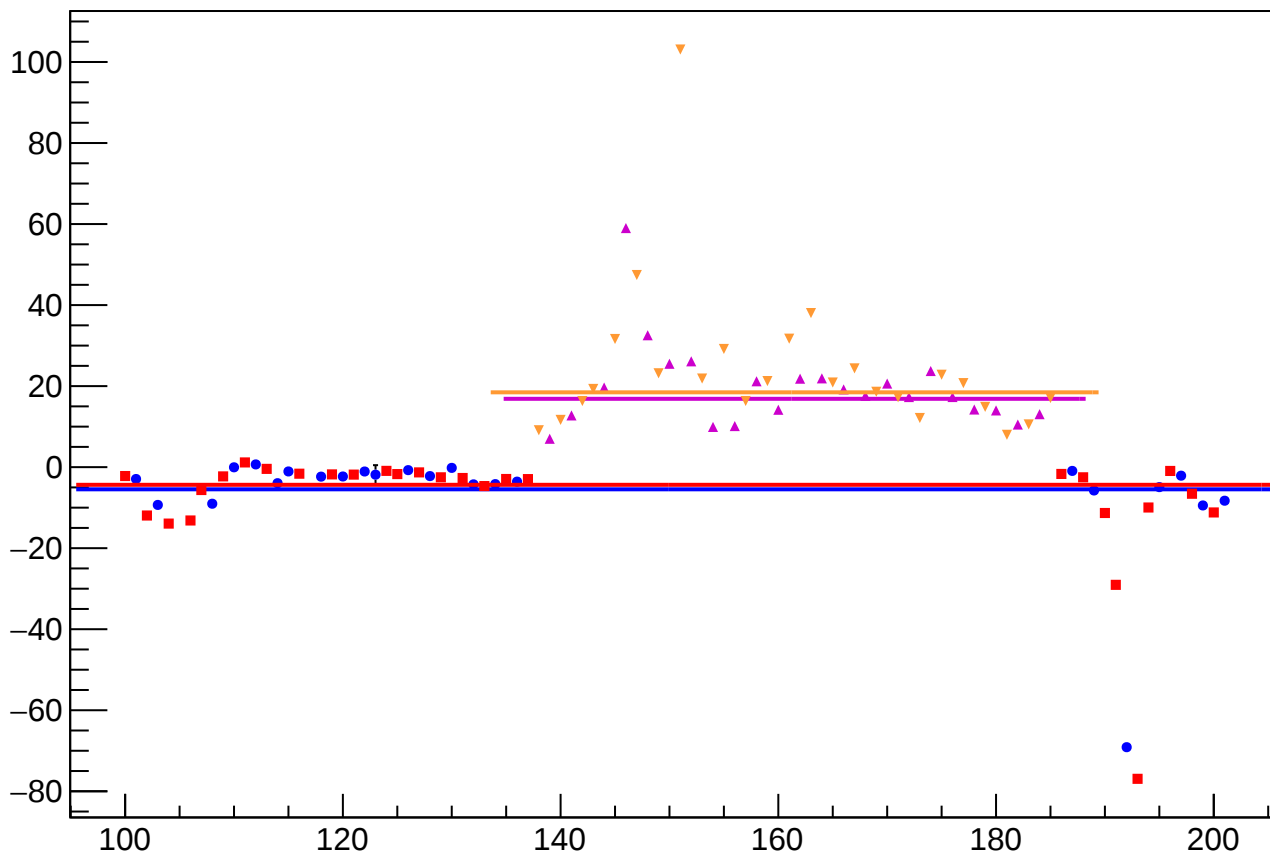
Right: 0.190 ± 0.036 $\chi^2/\text{NDF}: 8004.7/51$

In: 0.350 ± 0.027 $\chi^2/\text{NDF}: 10012.4/46$

Out: 0.390 ± 0.027 $\chi^2/\text{NDF}: 11310.2/52$

All: 0.370 ± 0.019 $\chi^2/\text{NDF}: 21323.6/99$

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.472+/-0.061 χ^2/NDF : 26424.1/23

Left Out: 18.467+/-0.040 χ^2/NDF : 77226.7/24

Right Out: -4.357+/-0.051 χ^2/NDF : 27548.6/27

Left In: 16.867+/-0.039 χ^2/NDF : 39779.0/22

Left: 17.640+/-0.028 χ^2/NDF : 117837.8/47

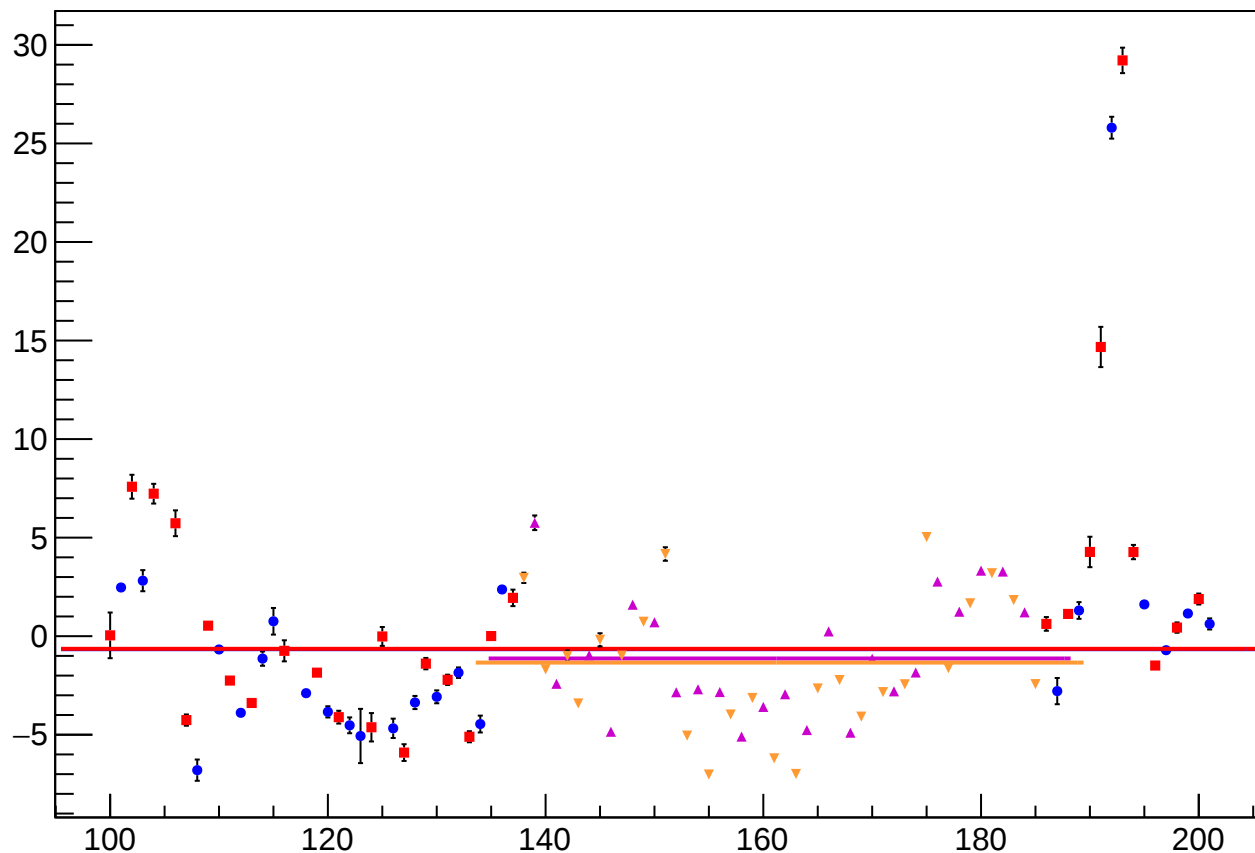
Right: -4.817+/-0.039 χ^2/NDF : 54171.4/51

In: 10.427+/-0.033 χ^2/NDF : 162924.5/46

Out: 9.750+/-0.031 χ^2/NDF : 229850.2/52

All: 10.076+/-0.023 χ^2/NDF : 392999.3/99

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

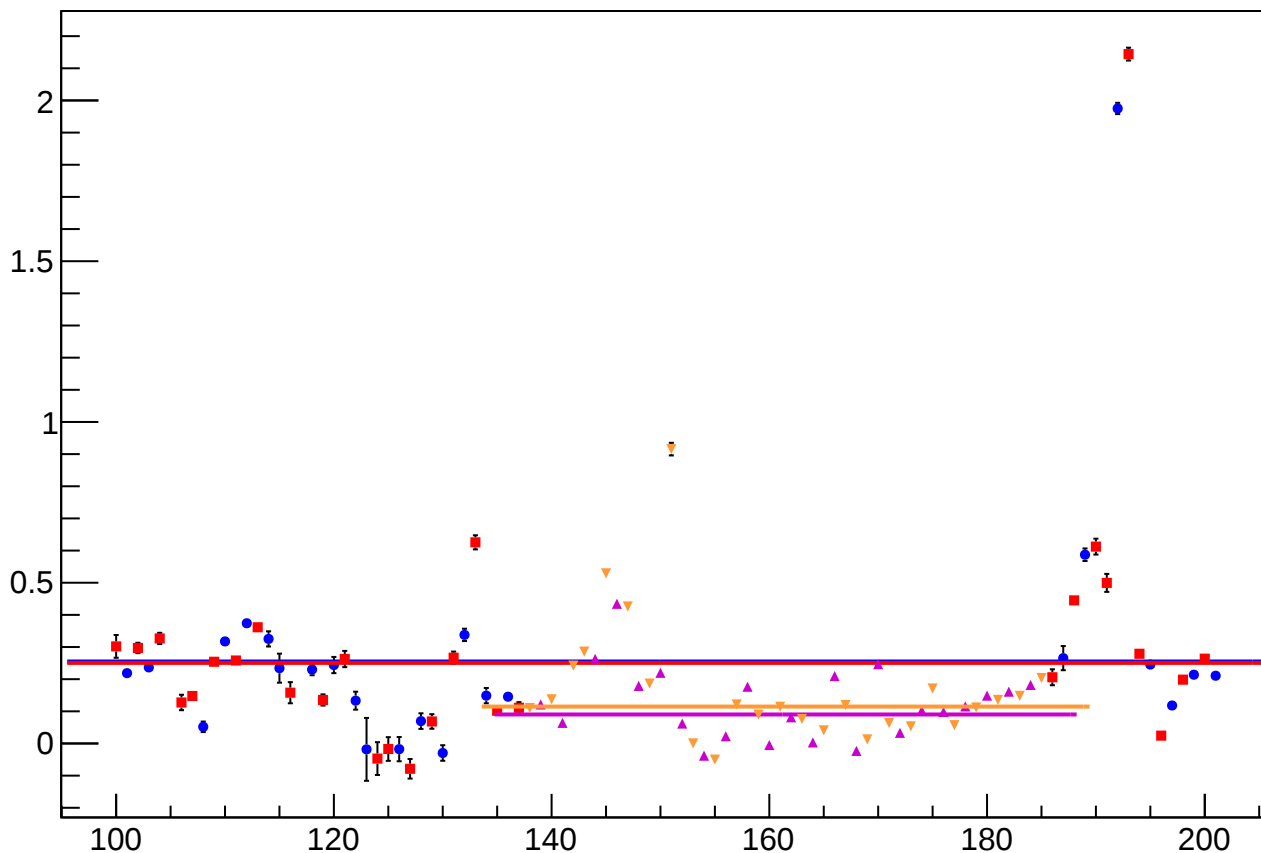


Right In: -0.660 ± 0.061 $\chi^2/\text{NDF}: 3877.3/23$
 Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$
 Right Out: -0.642 ± 0.057 $\chi^2/\text{NDF}: 4433.9/27$
 Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$
 Right: -0.650 ± 0.042 $\chi^2/\text{NDF}: 8311.2/51$
 In: -1.017 ± 0.030 $\chi^2/\text{NDF}: 10630.6/46$
 Out: -1.137 ± 0.031 $\chi^2/\text{NDF}: 12447.1/52$

All: -1.076 ± 0.022 $\chi^2/\text{NDF}: 23085.5/99$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.255 $\pm$ 0.003 χ^2 /NDF: 11027.7/23

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.251 $\pm$ 0.003 χ^2 /NDF: 11582.7/27

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

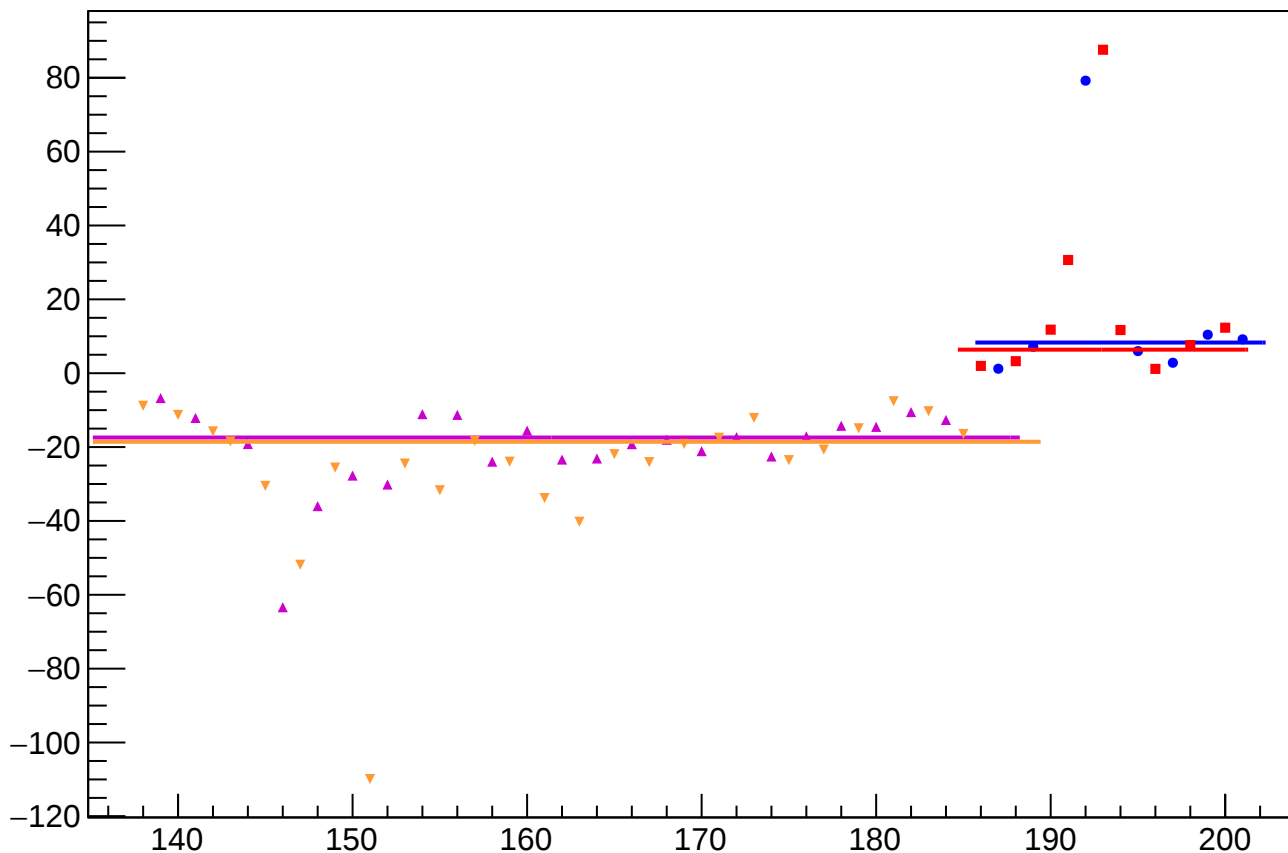
Right: 0.253 $\pm$ 0.002 χ^2 /NDF: 22611.7/51

In: 0.129 $\pm$ 0.001 χ^2 /NDF:17445.3/46

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:17915.9/52

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 35499.6/99

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.304+/-0.085 χ^2/NDF : 23786.5/6

Left Out: -18.566+/-0.040 χ^2/NDF :86389.6/24

Right Out: 6.378+/-0.071 χ^2/NDF : 24856.9/8

Left In: -17.414+/-0.039 χ^2/NDF :43504.1/22

Left: -17.979+/-0.028 χ^2/NDF : 130314.7/47

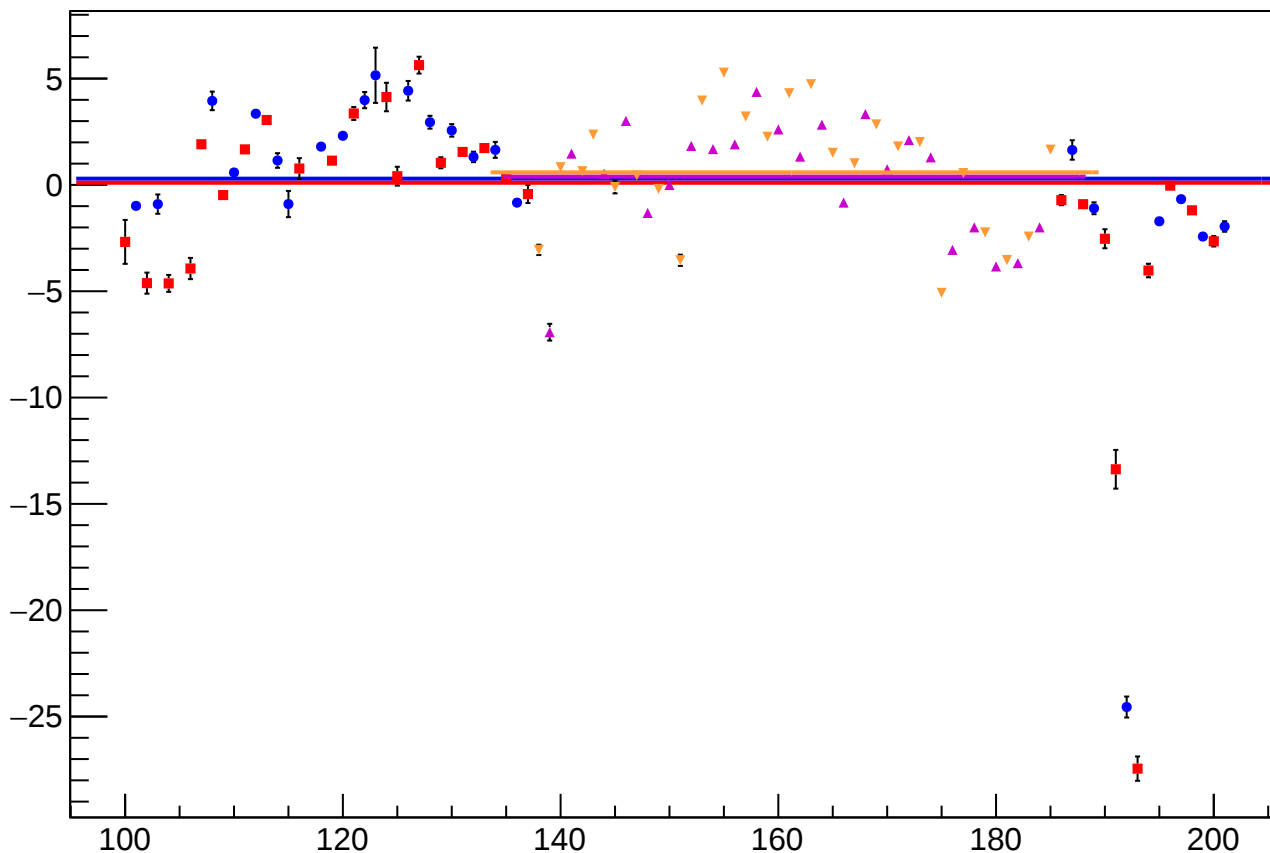
Right: 7.172+/-0.055 χ^2/NDF : 48942.8/15

In: -12.911+/-0.036 χ^2/NDF :142271.9/29

Out: -12.594+/-0.035 χ^2/NDF :203906.4/33

All: -12.749+/-0.025 χ^2/NDF : 346218.5/63

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.294 $\pm$ 0.053 χ^2 /NDF: 3836.1/23

Left Out: 0.591 $\pm$ 0.033 χ^2 /NDF: 6796.5/24

Right Out: 0.101 $\pm$ 0.049 χ^2 /NDF: 4156.8/27

Left In: 0.394 $\pm$ 0.032 χ^2 /NDF: 6059.8/22

Left: 0.488 $\pm$ 0.023 χ^2 /NDF: 12874.6/47

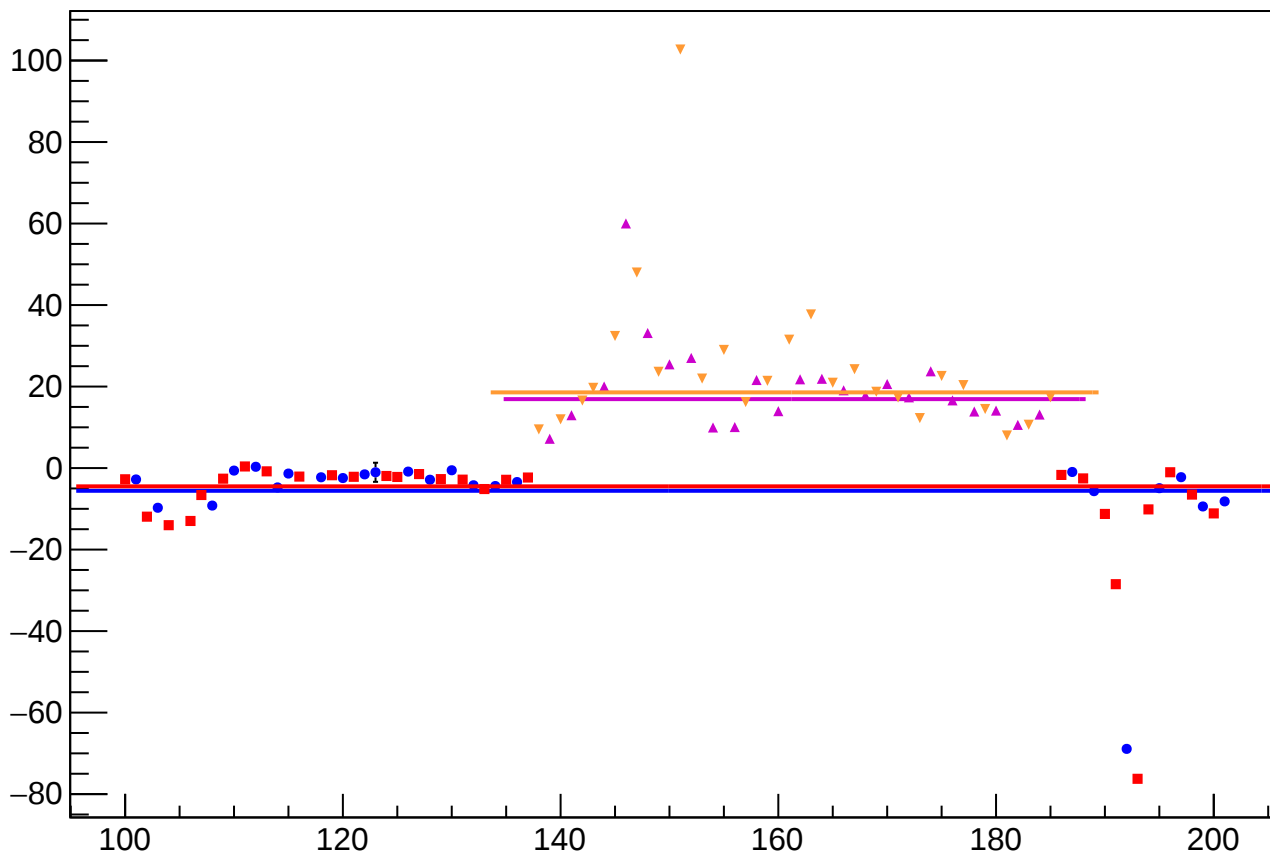
Right: 0.191 $\pm$ 0.036 χ^2 /NDF: 8000.0/51

In: 0.368 $\pm$ 0.027 χ^2 /NDF: 9898.6/46

Out: 0.438 $\pm$ 0.028 χ^2 /NDF: 11020.9/52

All: 0.402 $\pm$ 0.019 χ^2 /NDF: 20922.8/99

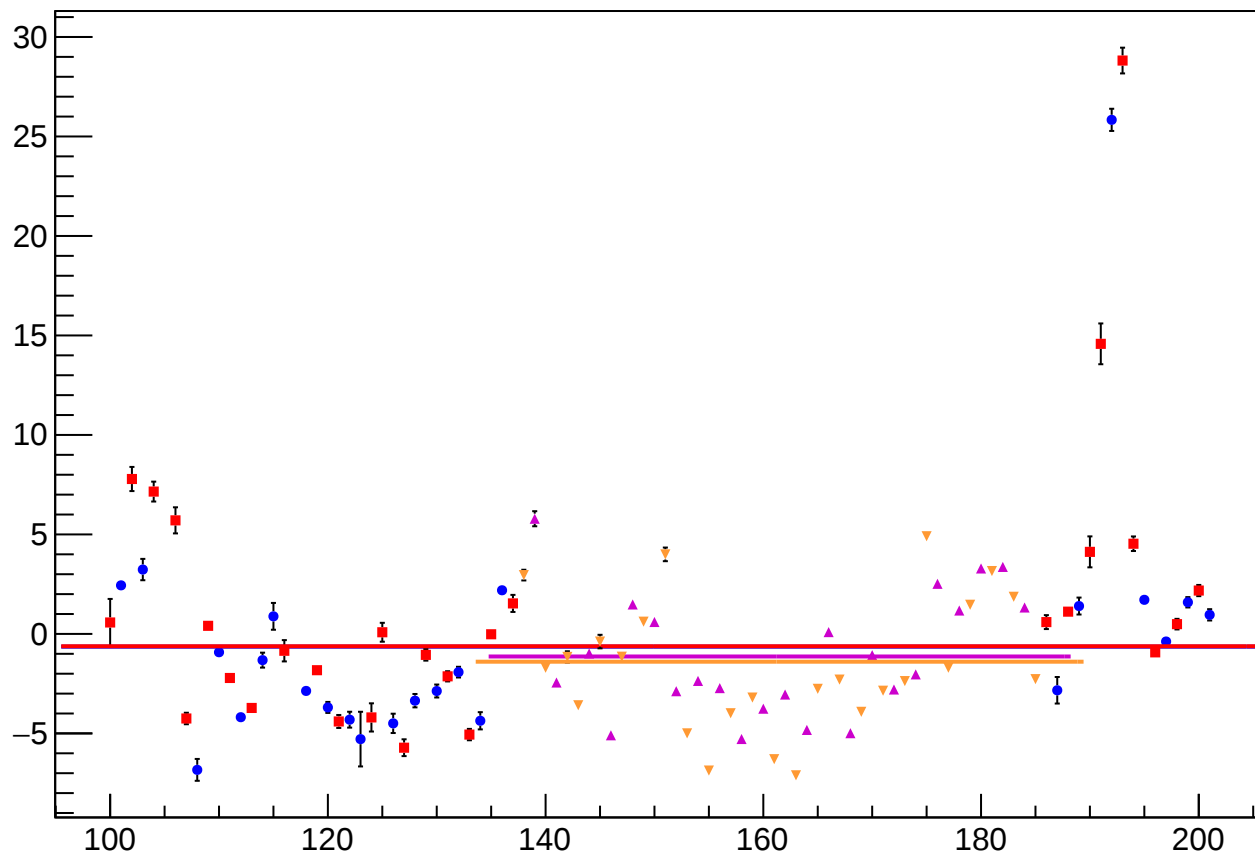
reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.570 ± 0.061 $\chi^2/\text{NDF}: 25719.0/23$
 Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$
 Right Out: -4.484 ± 0.052 $\chi^2/\text{NDF}: 26661.8/27$
 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: -4.933 ± 0.039 $\chi^2/\text{NDF}: 52564.7/51$
 In: 10.468 ± 0.033 $\chi^2/\text{NDF}: 161713.0/46$
 Out: 9.828 ± 0.032 $\chi^2/\text{NDF}: 227090.6/52$
 All: 10.137 ± 0.023 $\chi^2/\text{NDF}: 389000.0/99$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected

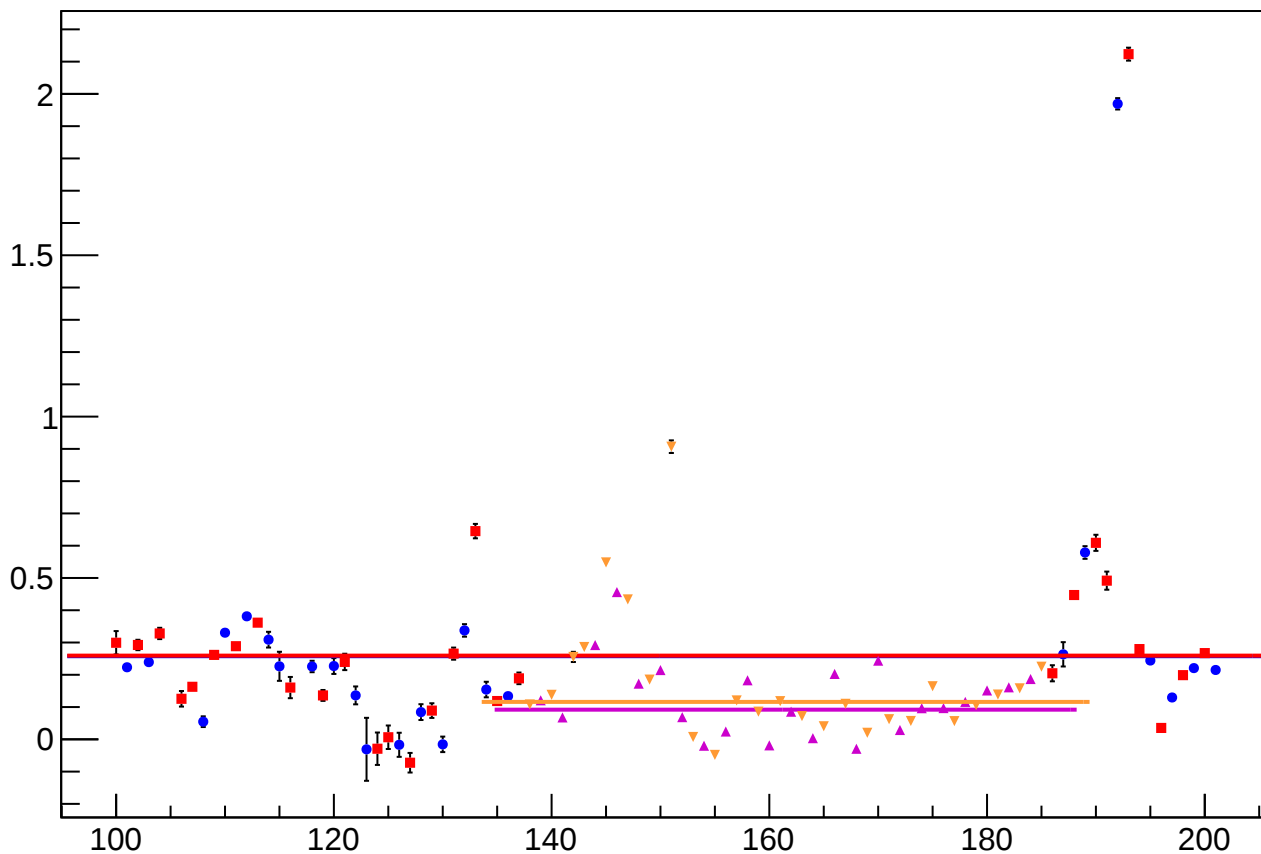


Right In: -0.640 ± 0.062 $\chi^2/\text{NDF}: 3875.3/23$
 Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$
 Right Out: -0.621 ± 0.058 $\chi^2/\text{NDF}: 4370.8/27$
 Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$
 Right: -0.630 ± 0.042 $\chi^2/\text{NDF}: 8246.2/51$
 In: -1.014 ± 0.031 $\chi^2/\text{NDF}: 10521.1/46$
 Out: -1.173 ± 0.031 $\chi^2/\text{NDF}: 12149.4/52$

All: -1.092 ± 0.022 $\chi^2/\text{NDF}: 22683.8/99$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.258 $\pm$ 0.003 χ^2 /NDF: 10783.8/23

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.259 $\pm$ 0.003 χ^2 /NDF: 11060.6/27

Left In: 0.092 $\pm$ 0.002 χ^2 /NDF:3631.4/22

Left: 0.103 $\pm$ 0.001 χ^2 /NDF: 8207.3/47

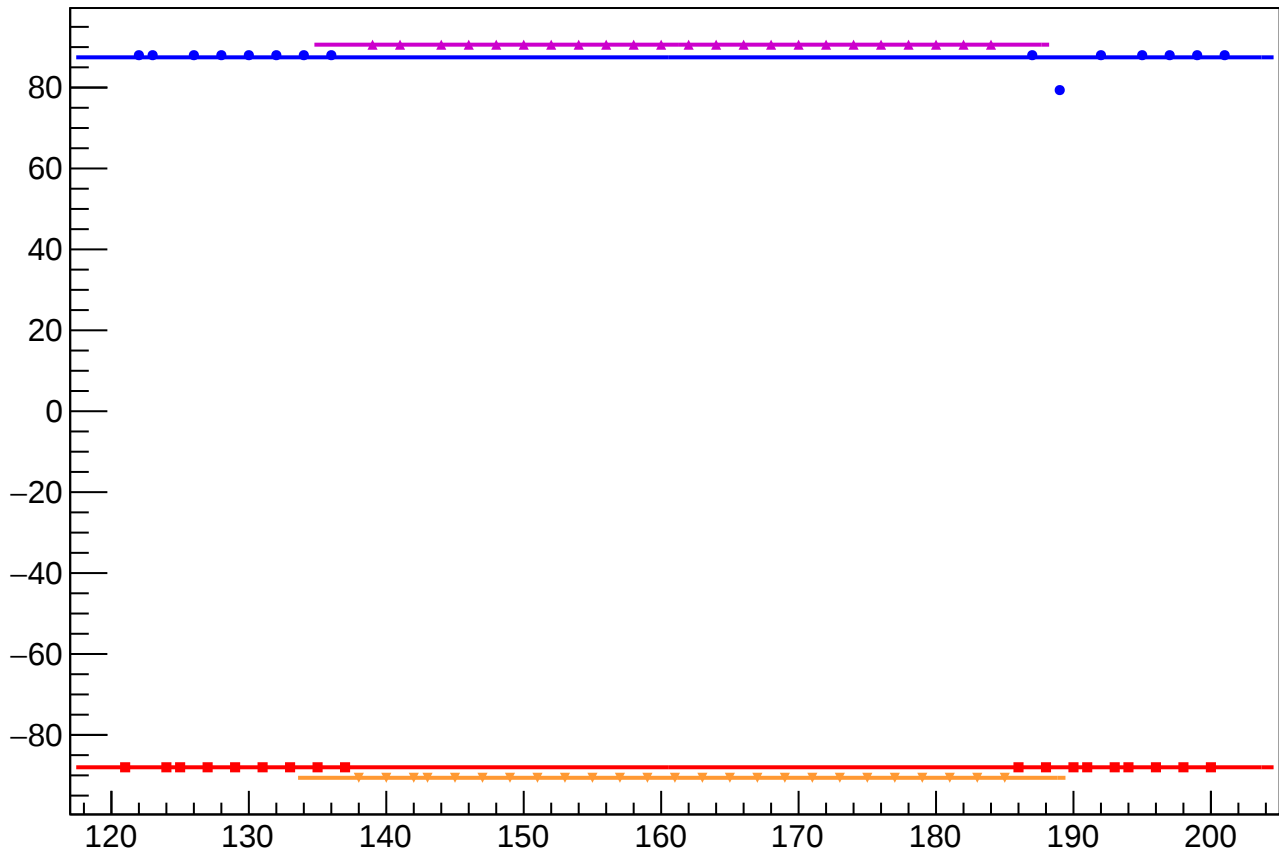
Right: 0.259 $\pm$ 0.002 χ^2 /NDF: 21844.6/51

In: 0.131 $\pm$ 0.001 χ^2 /NDF:17119.4/46

Out: 0.155 $\pm$ 0.001 χ^2 /NDF:17580.2/52

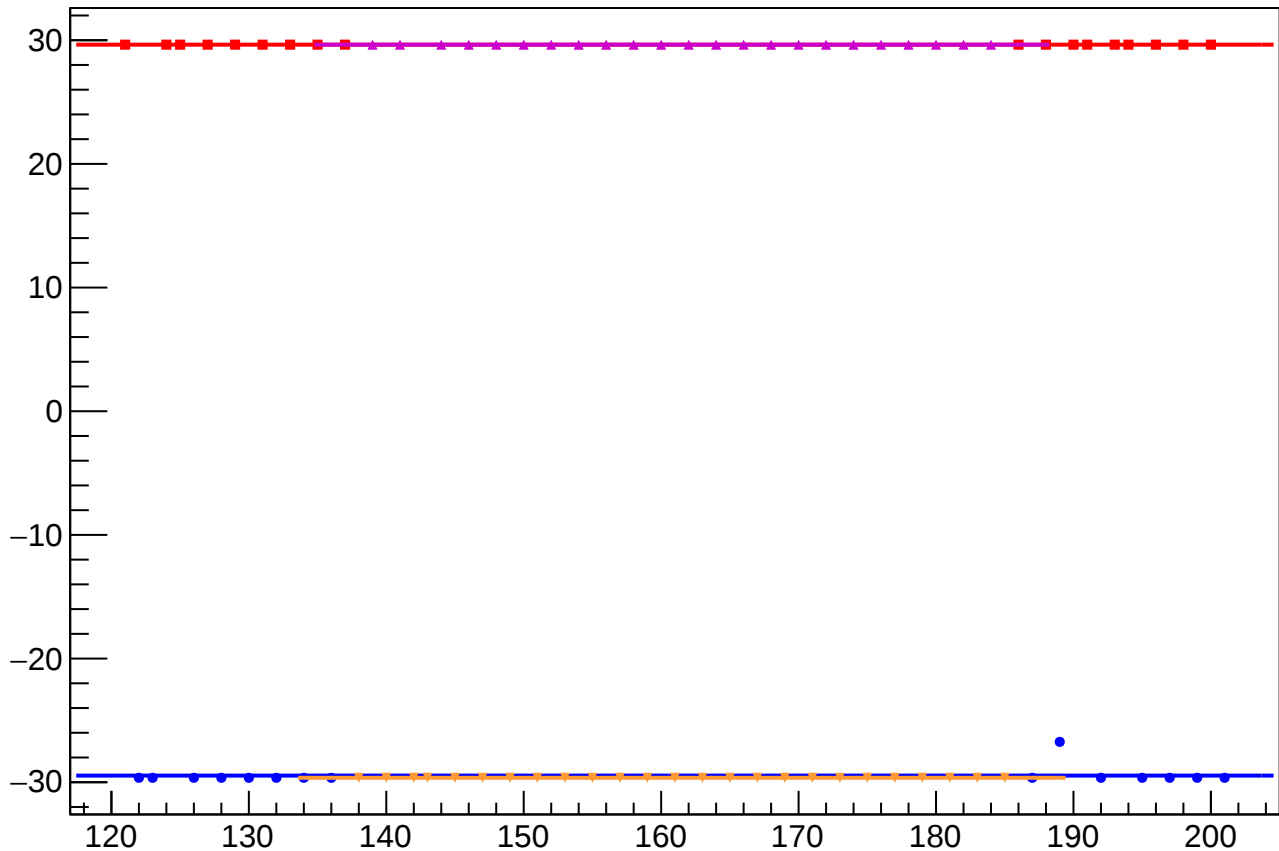
All: 0.143 $\pm$ 0.001 χ^2 /NDF: 34848.4/99

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.471+/-0.000 χ^2/NDF : 3563163047937570024656618796351488.0/14
 Left Out: -90.599+/-0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001+/-0.000 χ^2/NDF : 1158577.9/17
 Left In: 90.599+/-0.000 χ^2/NDF : 5932436.0/22
 Left: -2.410+/-0.000 χ^2/NDF : 30521213250005045
 Right: -5.103+/-0.000 χ^2/NDF : 1350246422197121
 In: 89.615+/-0.000 χ^2/NDF : 913684921381488243
 Out: -89.750+/-0.000 χ^2/NDF : 4217409106816959
 All: -3.275+/-0.000 χ^2/NDF : 4403233610260

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.462+/-0.000

χ^2/NDF : 404241051273333620658862186037248.0/14

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

Right Out: 29.641+/-0.000

χ^2/NDF : 1371986.9/17

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000

χ^2/NDF : 32668496095314519

Right: 1.719+/-0.000

χ^2/NDF : 15318553370802702

In: 11.051+/-0.000

χ^2/NDF : 19901914432687960

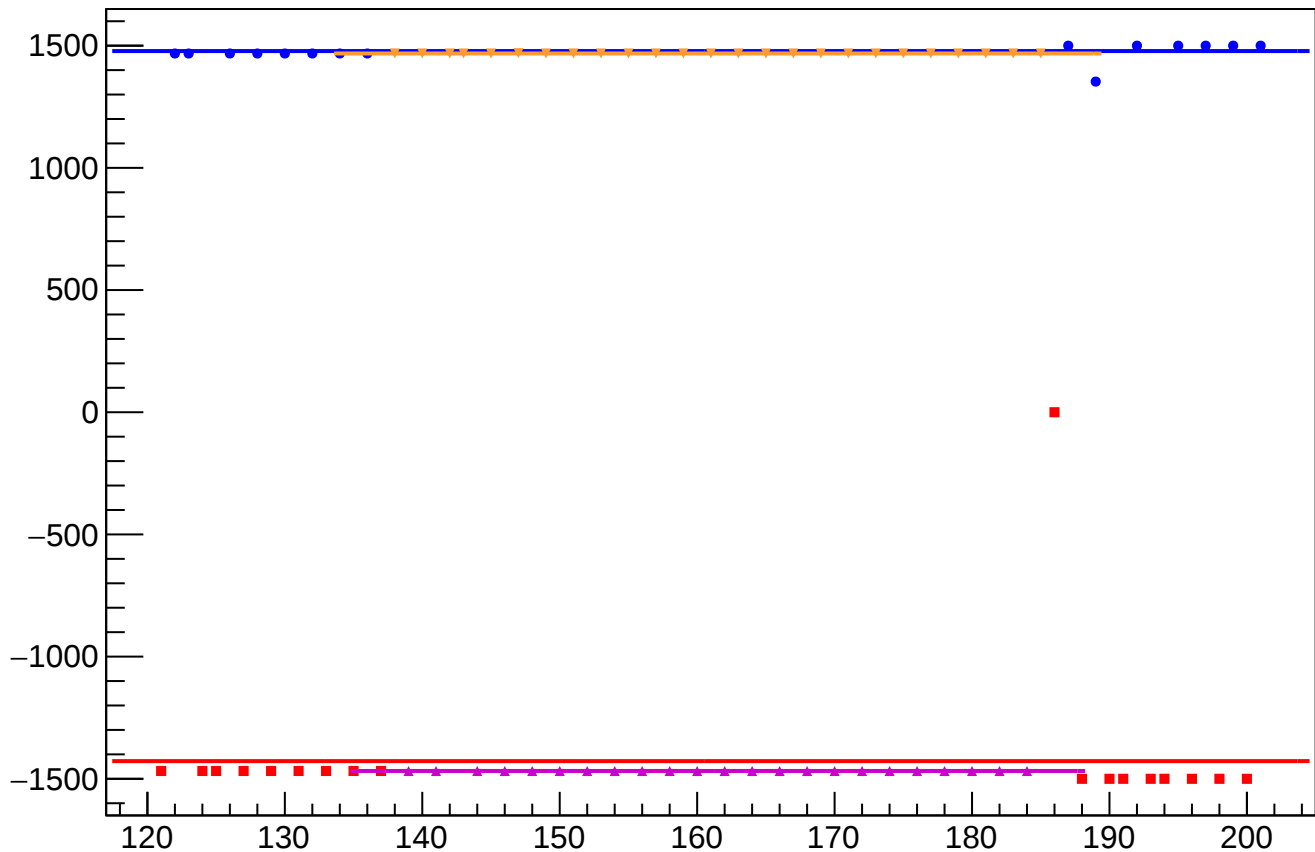
Out: -10.256+/-0.000

χ^2/NDF : 2194855567958114

All: 0.016+/-0.000

χ^2/NDF : 48062141404296

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1477.913+/-0.000

χ^2/NDF : 1045108886946435338230360909453197312.0/14

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1427.640+/-0.000

χ^2/NDF : 80965019604512890408144883450894090240.0/17

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

Left: 39.085+/-0.000 χ^2/NDF : 80133946076775322.0/14

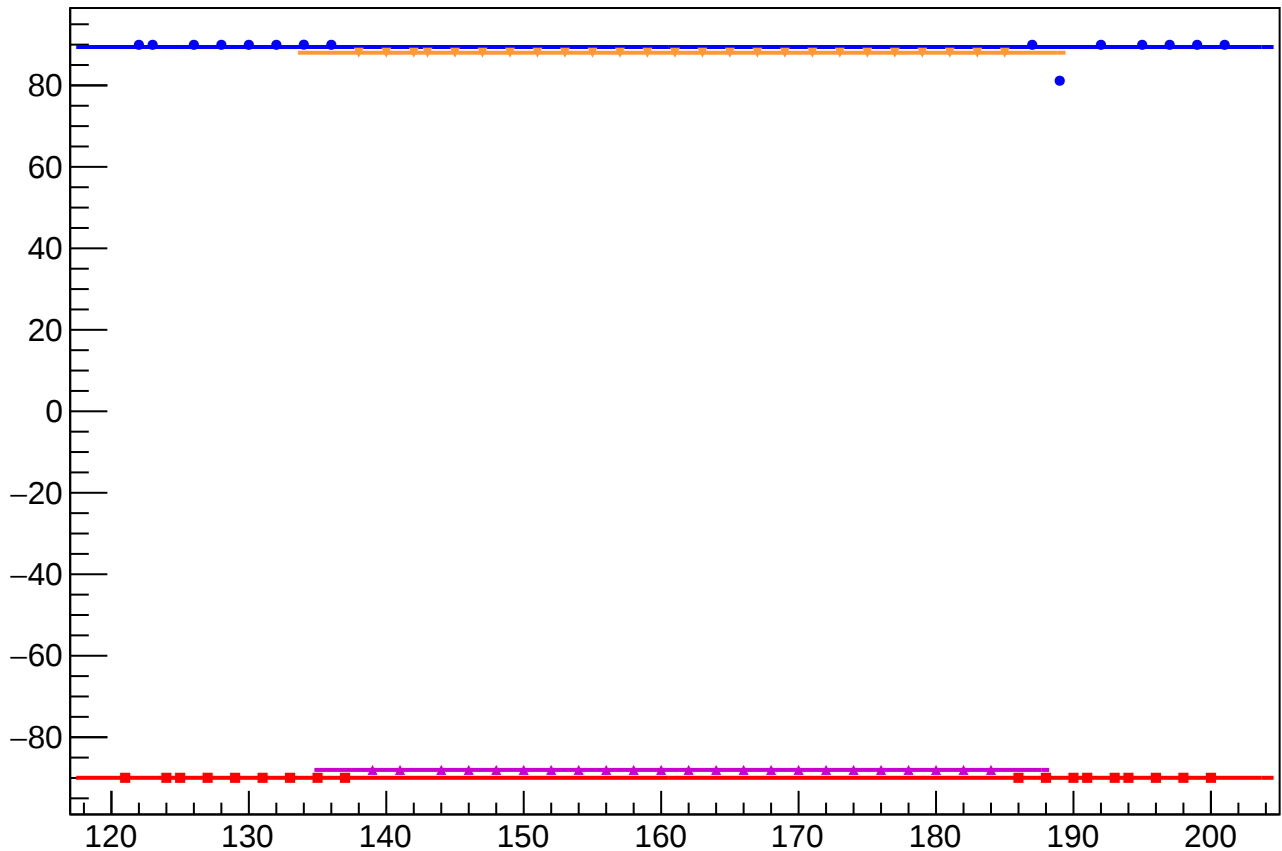
Right: -54.977+/-0.000 χ^2/NDF : 378319447548007.0/14

In: -541.405+/-0.000 χ^2/NDF : 4944430903971465.0/14

Out: 521.184+/-0.000 χ^2/NDF : 5317843754076709.0/14

All: 8.892+/-0.000 χ^2/NDF : 11807156613518.0/56

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.419+/-0.000

χ^2 /NDF: 3724309323880927610464620081315840.0/14

Left: 2.342+/-0.000 χ^2 /NDF: 288085769312401978

Right: -5.216+/-0.000 χ^2 /NDF: 1411032192807148

Left Out: 88.021+/-0.000

χ^2 /NDF: 5326388.8/24

In: -32.210+/-0.000 χ^2 /NDF: 17938154517996657

Right Out: -89.959+/-0.000

χ^2 /NDF: 2932492.6/17

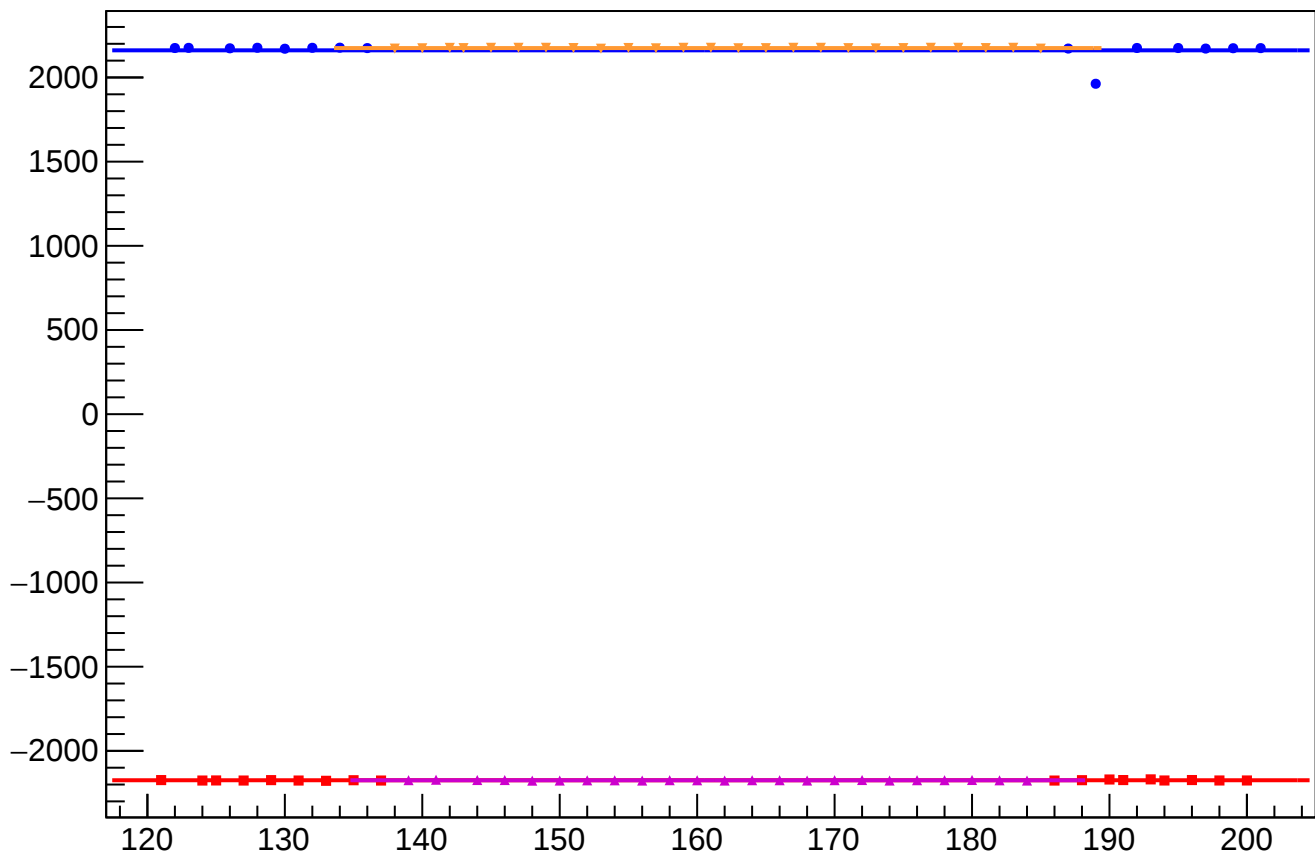
Out: 29.823+/-0.000 χ^2 /NDF: 19783874901829425

Left In: -88.021+/-0.000

χ^2 /NDF: 6084099.2/22

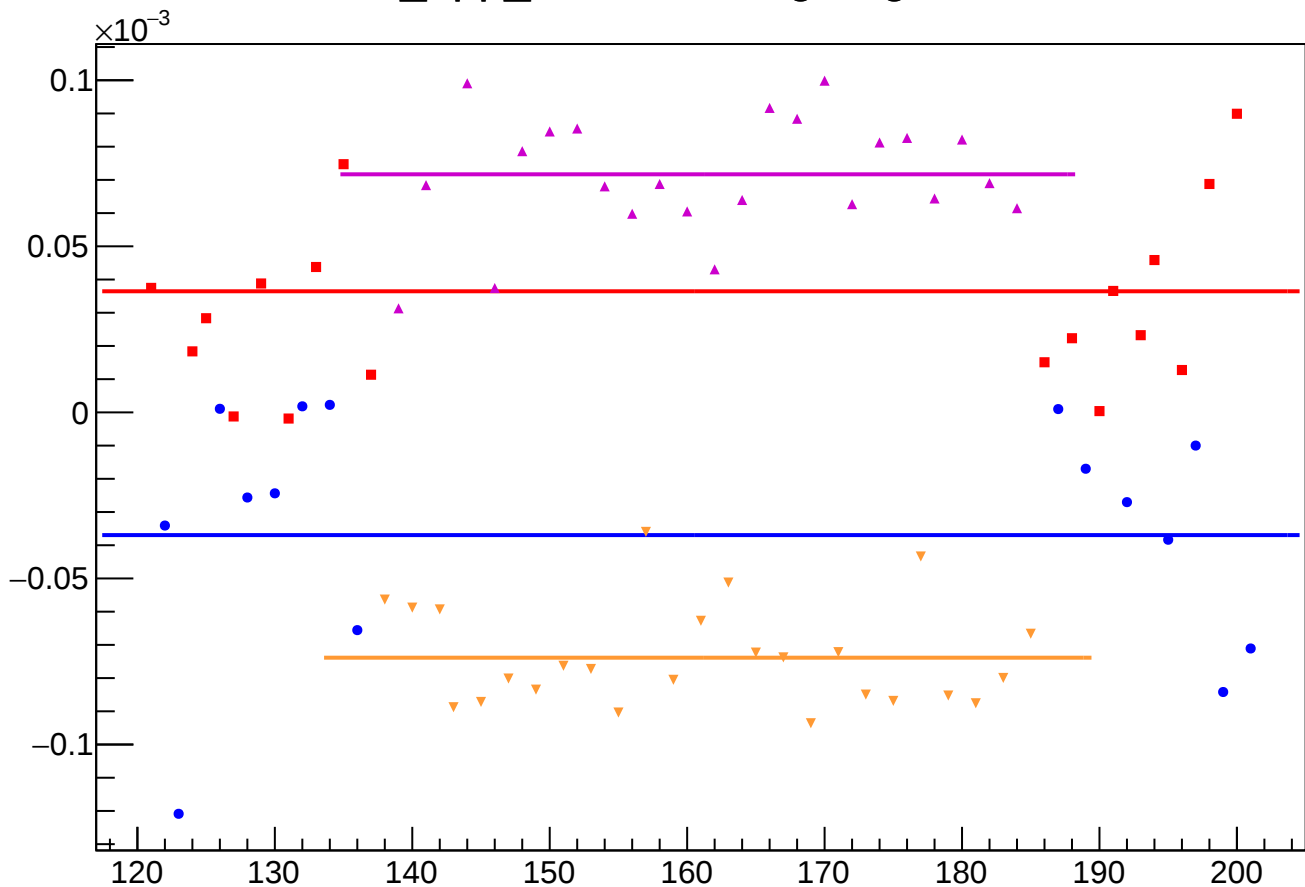
All: -0.084+/-0.000 χ^2 /NDF: 4298712581916

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2161.203+/-0.000	χ^2/NDF : 2144869473423248925464965959248773120.0/14	Left: 57.898+/-0.000	χ^2/NDF : 17583418754650851
Left Out: 2174.622+/-0.000	χ^2/NDF : 5110578135476093110874911595823104.0/24	Right: -126.208+/-0.000	χ^2/NDF : 82436636240648
Right Out: -2174.524+/-0.000	χ^2/NDF : 4381111698596969762802917579948032.0/17	In: -810.799+/-0.000	χ^2/NDF : 1071027367152075
Left In: -2174.539+/-0.000	χ^2/NDF : 3400742562425168967494665391570944.0/22	Out: 752.491+/-0.000	χ^2/NDF : 1181346622023443
	All: -1.197+/-0.000	χ^2/NDF : 2586756590551	

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 666990770083655124516864.0/14

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

Right Out: 0.000+/-0.000

χ^2/NDF : 691133608103146051076096.0/17

Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

Left: -0.000+/-0.000 χ^2/NDF : 20702696564433151

Right: 0.000+/-0.000

χ^2/NDF : 37206091758733988

In: 0.000+/-0.000

χ^2/NDF : 7950514948536087842

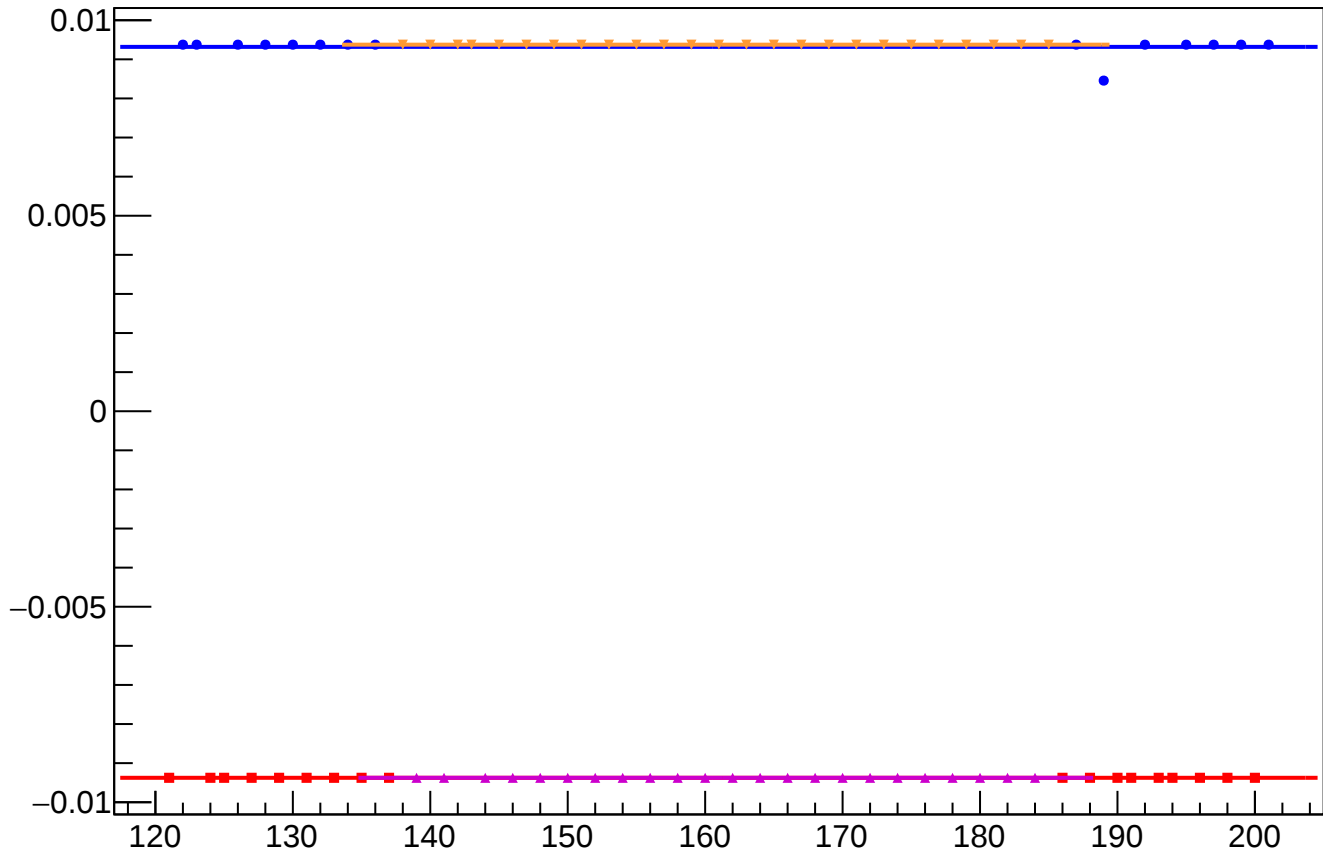
Out: -0.000+/-0.000

χ^2/NDF : 87426770324722850

All: -0.000+/-0.000

χ^2/NDF : 2445090514920

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40439517413462641838391296.0/14

Left: 0.000+/-0.000 χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000 χ^2/NDF : 1532439379514593

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.003+/-0.000 χ^2/NDF : 199095023310172766

Out: 0.003+/-0.000 χ^2/NDF : 219569238900633655

Right Out: -0.009+/-0.000

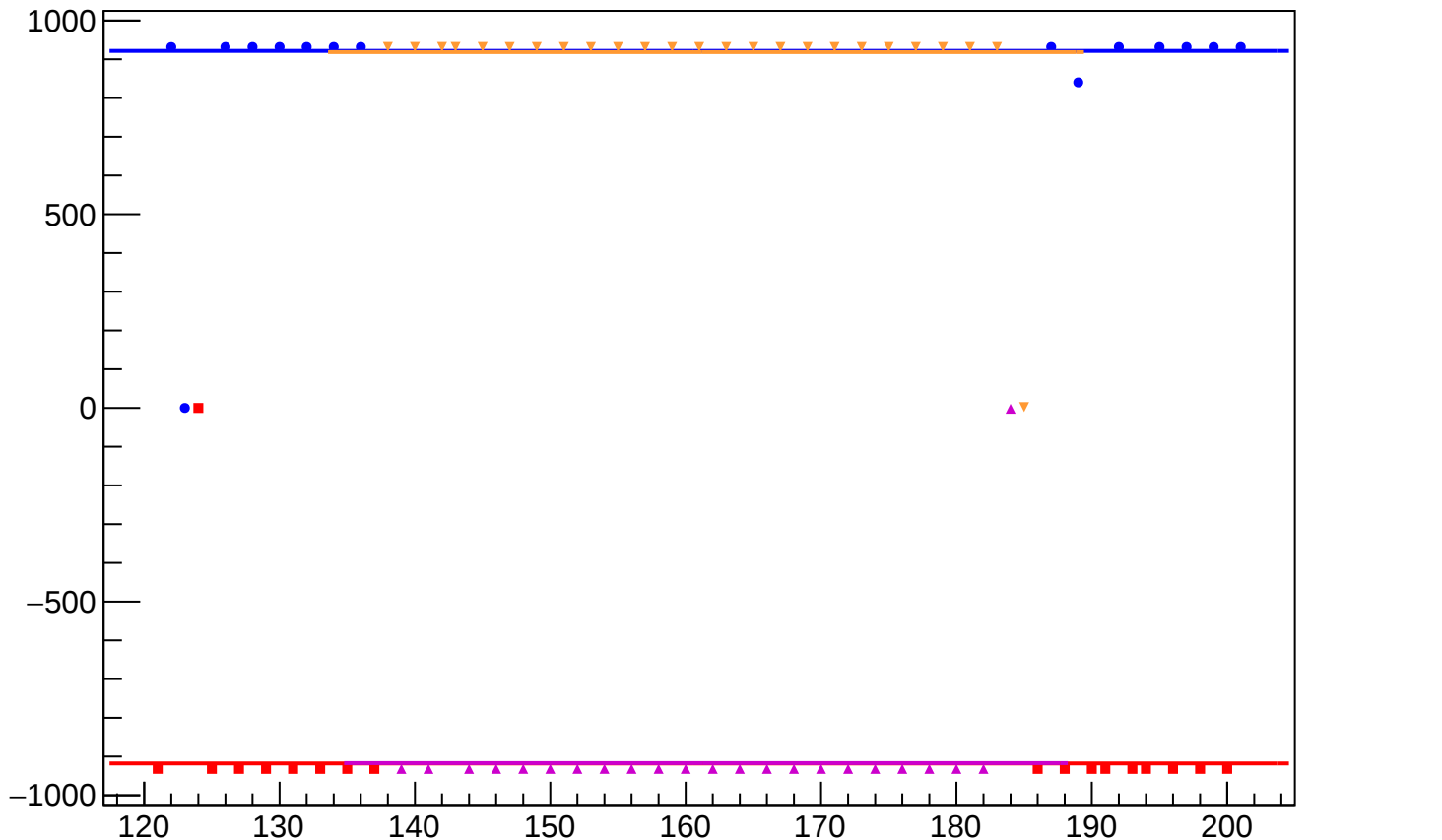
χ^2/NDF : 0.1/17

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

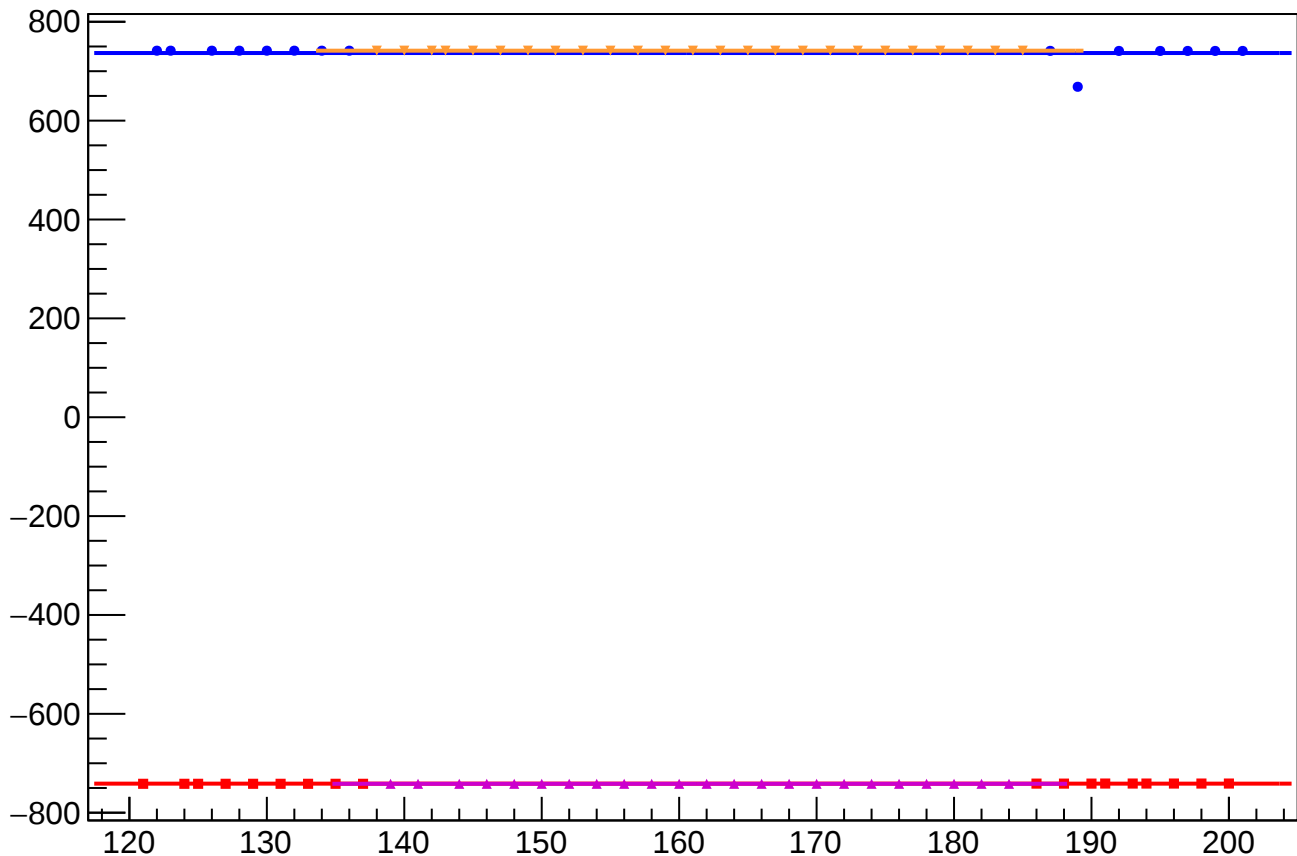
All: -0.000+/-0.000 χ^2/NDF : 4808046580437

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



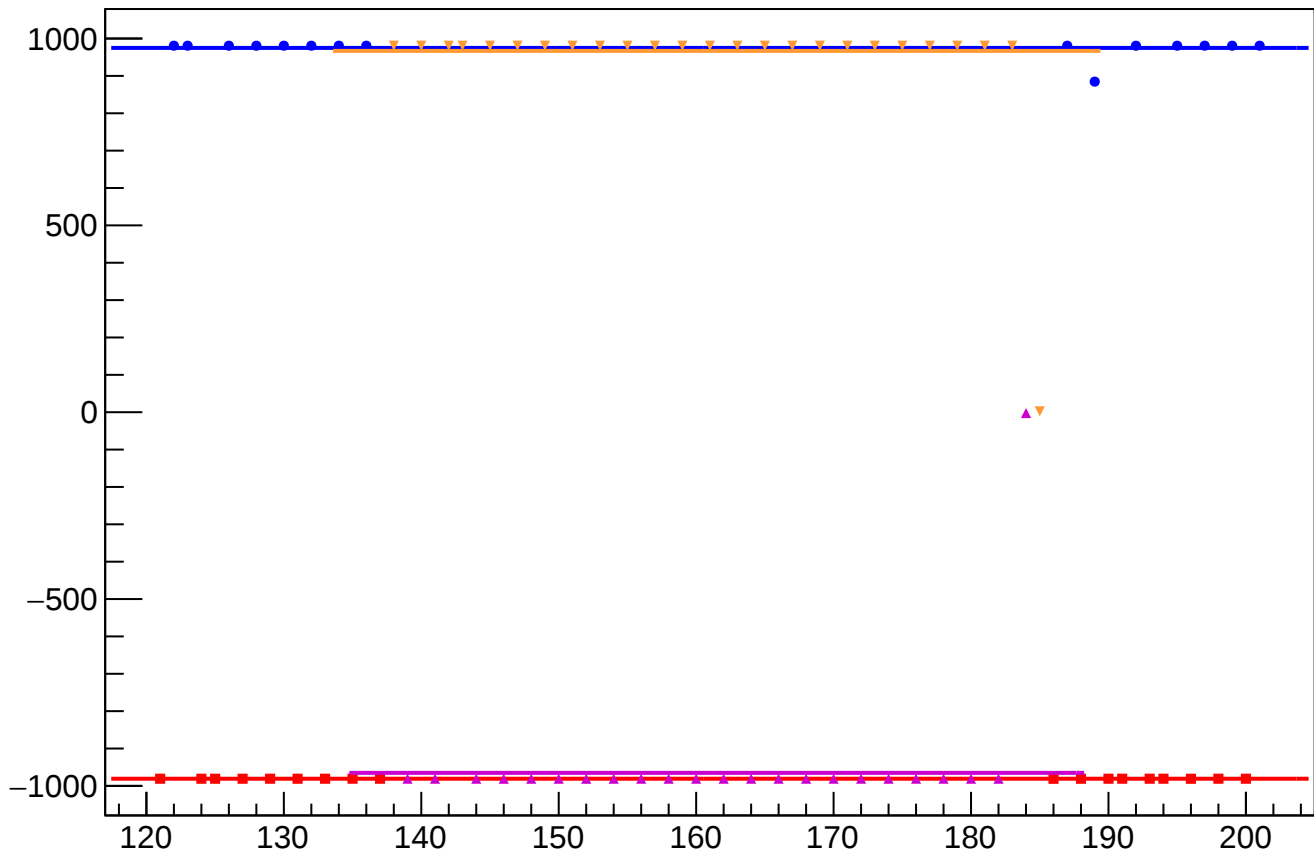
Right In: 921.698 $\pm$ 0.000 χ^2 /NDF: 3813170059097610946940299109933776896.0/14
 Left Out: 918.645 $\pm$ 0.000 χ^2 /NDF: 23003498704056084939752432521336324096.0/24
 Right Out: -917.748 $\pm$ 0.000 χ^2 /NDF: 11971439823183225945788962182384320512.0/17
 Left In: -916.890 $\pm$ 0.000 χ^2 /NDF: 2466789491747623125028694438888133632.0/22
 All: 1.530 $\pm$ 0.000 χ^2 /NDF: 46853664175392

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 736.782 ± 0.000 $\chi^2/\text{NDF}: 253374980658742752844833628826370048.0/14$
 Left Out: 741.513 ± 0.000 $\chi^2/\text{NDF}: 244782737401533731539808944128.0/24$
 Right Out: -741.222 ± 0.000 $\chi^2/\text{NDF}: 47346207216501599857247669714944.0/17$
 Left In: -741.512 ± 0.000 $\chi^2/\text{NDF}: 215375309108434607405602439168.0/22$
 All: -0.397 ± 0.000 $\chi^2/\text{NDF}: 3007170202444$

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 974.914+/-0.000

χ^2/NDF : 442790431841413357733910720368607232.0/14

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.831+/-0.000

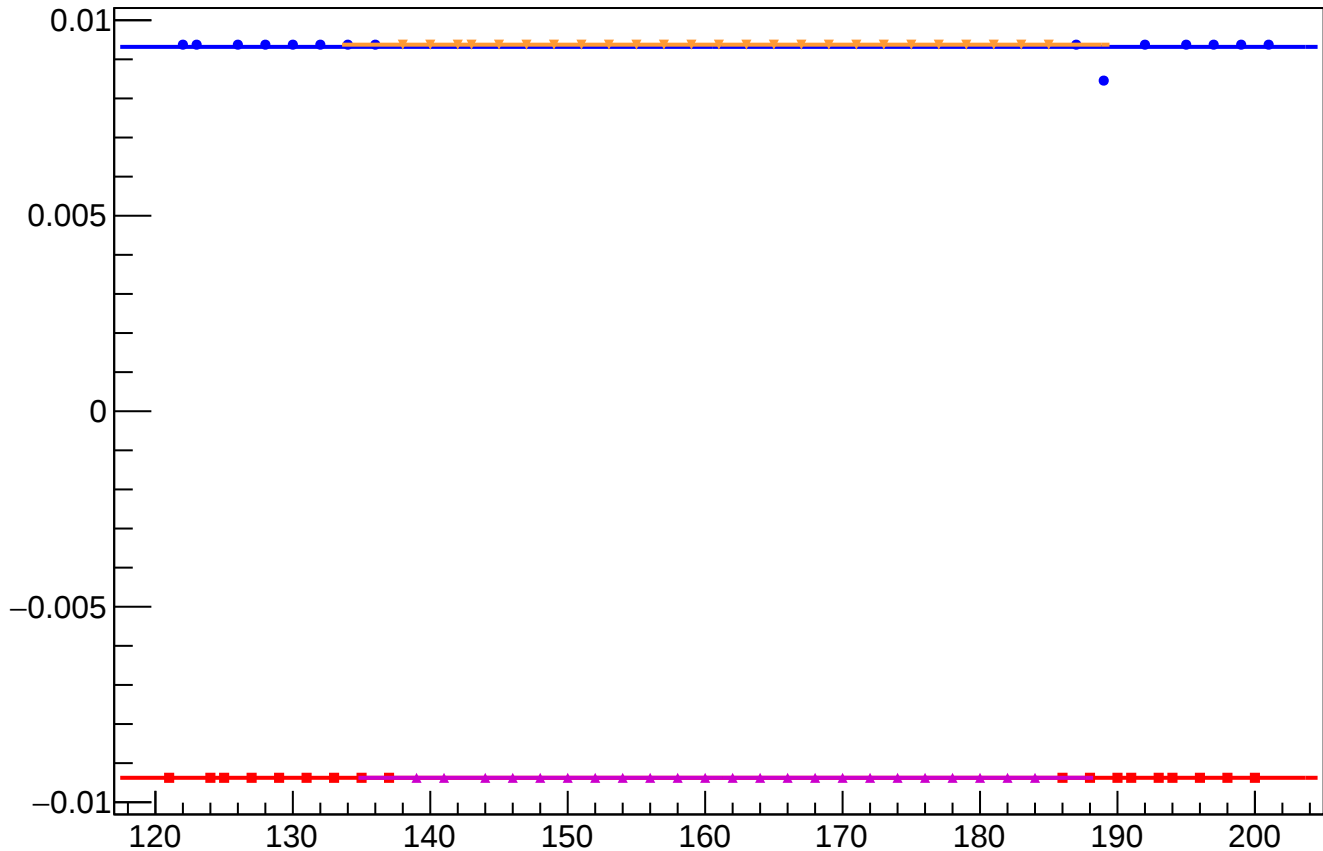
χ^2/NDF : 2905315201279300639803742093312.0/17

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: -0.184+/-0.000 χ^2/NDF : 5208441065836

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40439517413462641838391296.0/14

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1532439379514593

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.003+/-0.000

χ^2/NDF : 199095023310172766

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/17

Out: 0.003+/-0.000

χ^2/NDF : 219569238900633655

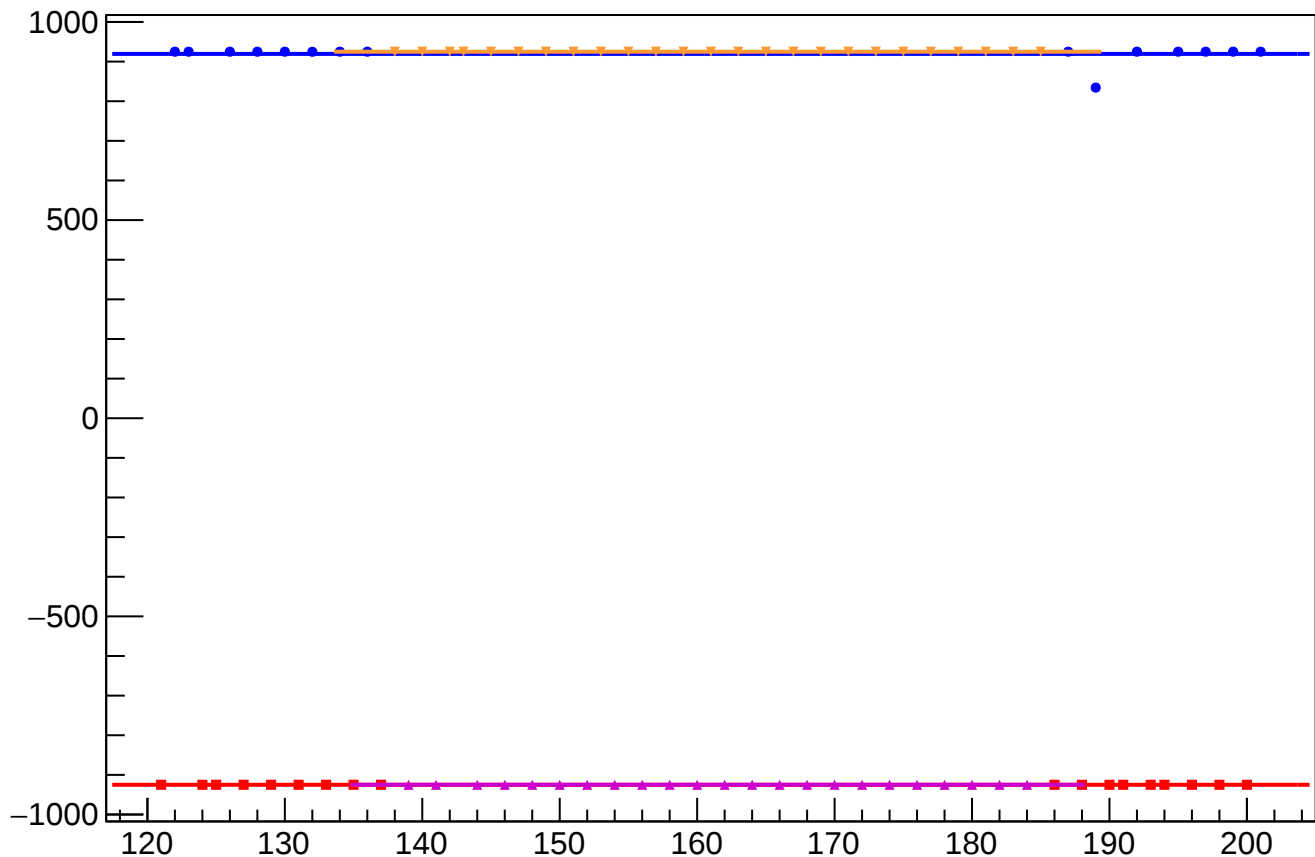
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: -0.000+/-0.000

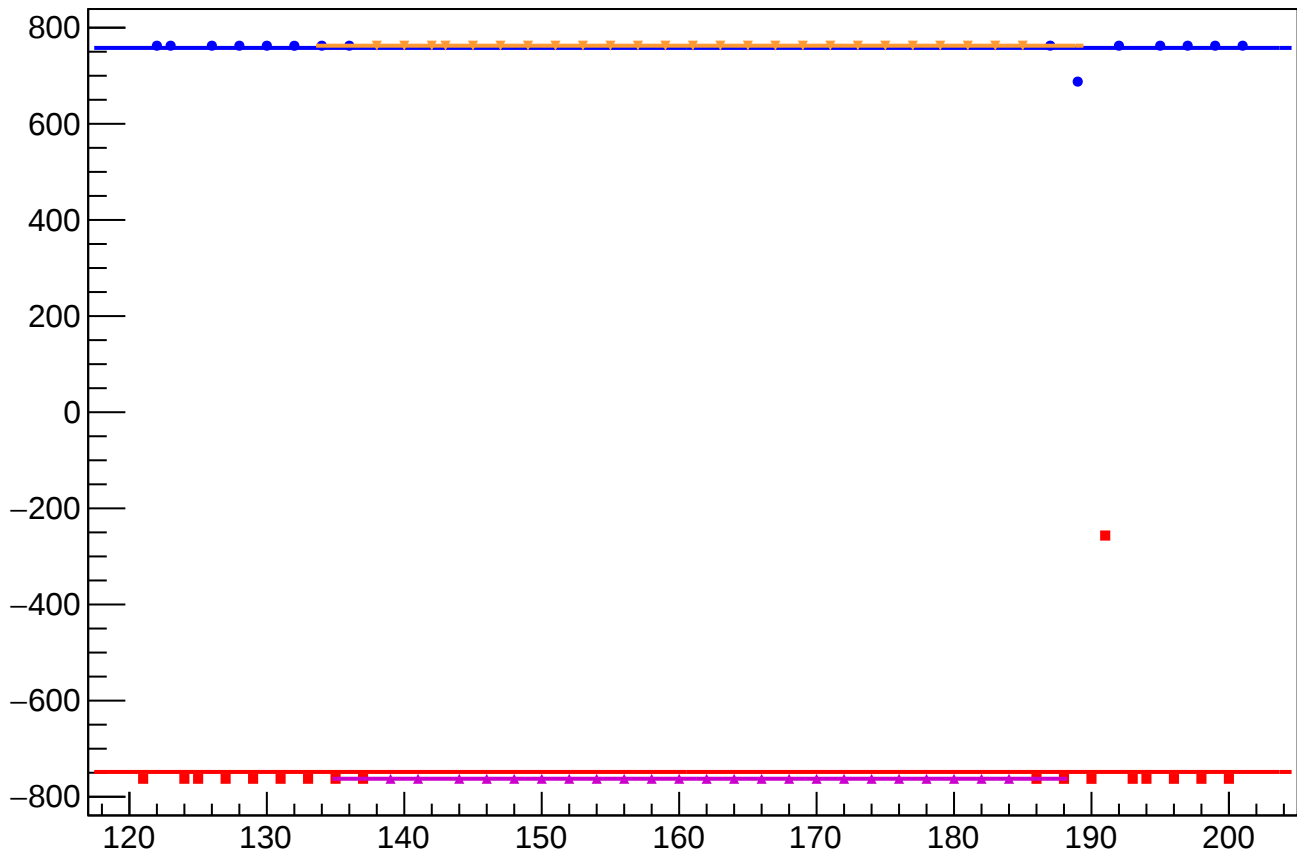
χ^2/NDF : 4808046580437

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 919.418+/-0.000 χ^2/NDF : 393282411284344969477065230447017984.0/14
 Left Out: 924.983+/-0.000 χ^2/NDF : 1041831865443970524066476982272.0/24
 Right Out: -924.993+/-0.000 χ^2/NDF : 776362329541842193364916633600.0/17
 Left In: -924.983+/-0.000 χ^2/NDF : 888539224321534960792212865024.0/22
 All: -0.508+/-0.000 χ^2/NDF : 4680529952302

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 757.926+/-0.000

χ^2/NDF : 267109508372637598183610360661016576.0/14

Left Out: 762.518+/-0.000

χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -748.353+/-0.000

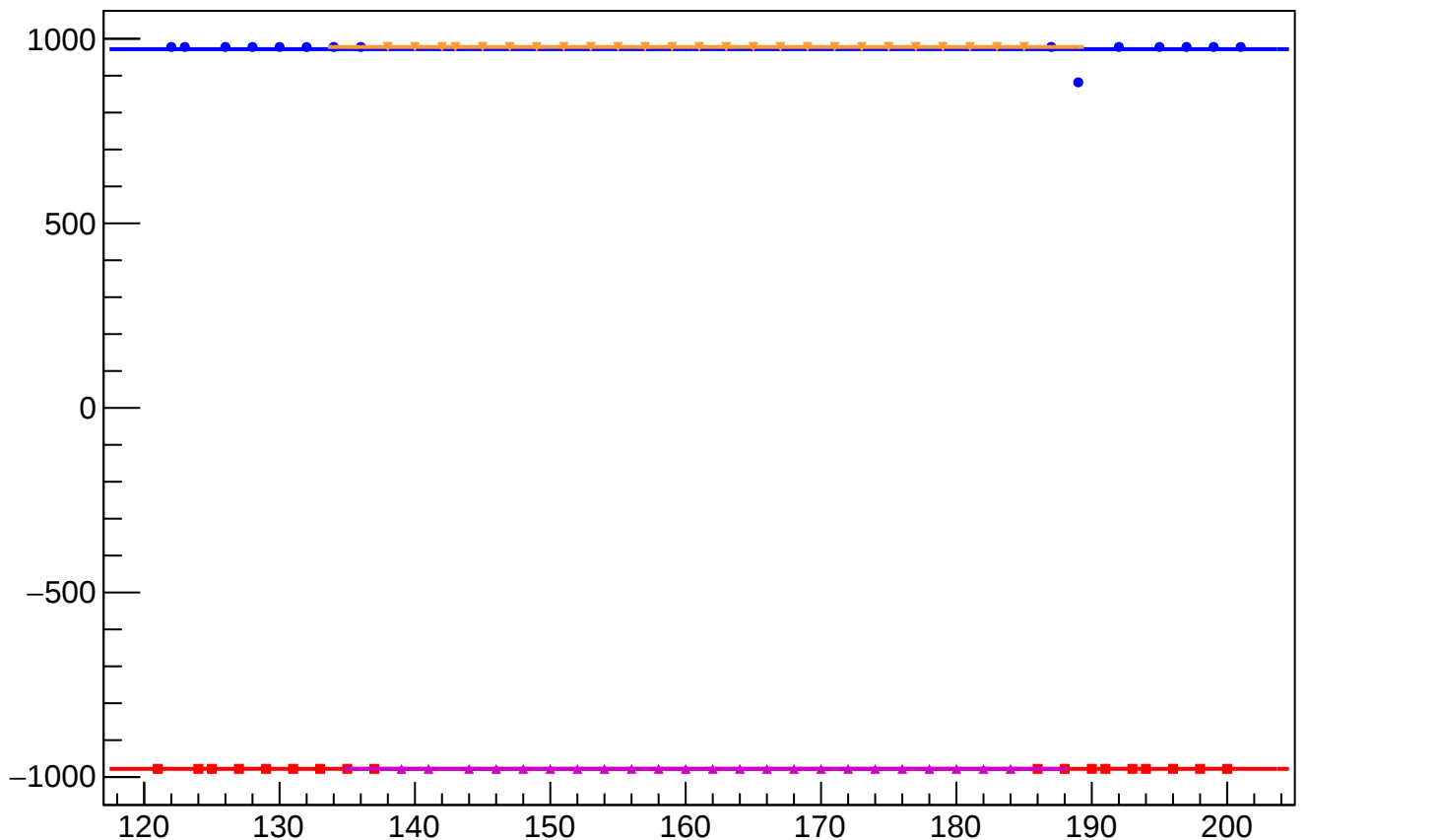
χ^2/NDF : 6469875895169304867817000286619172864.0/17

Left In: -762.519+/-0.000

χ^2/NDF : 629058355419214408155297480704.0/22

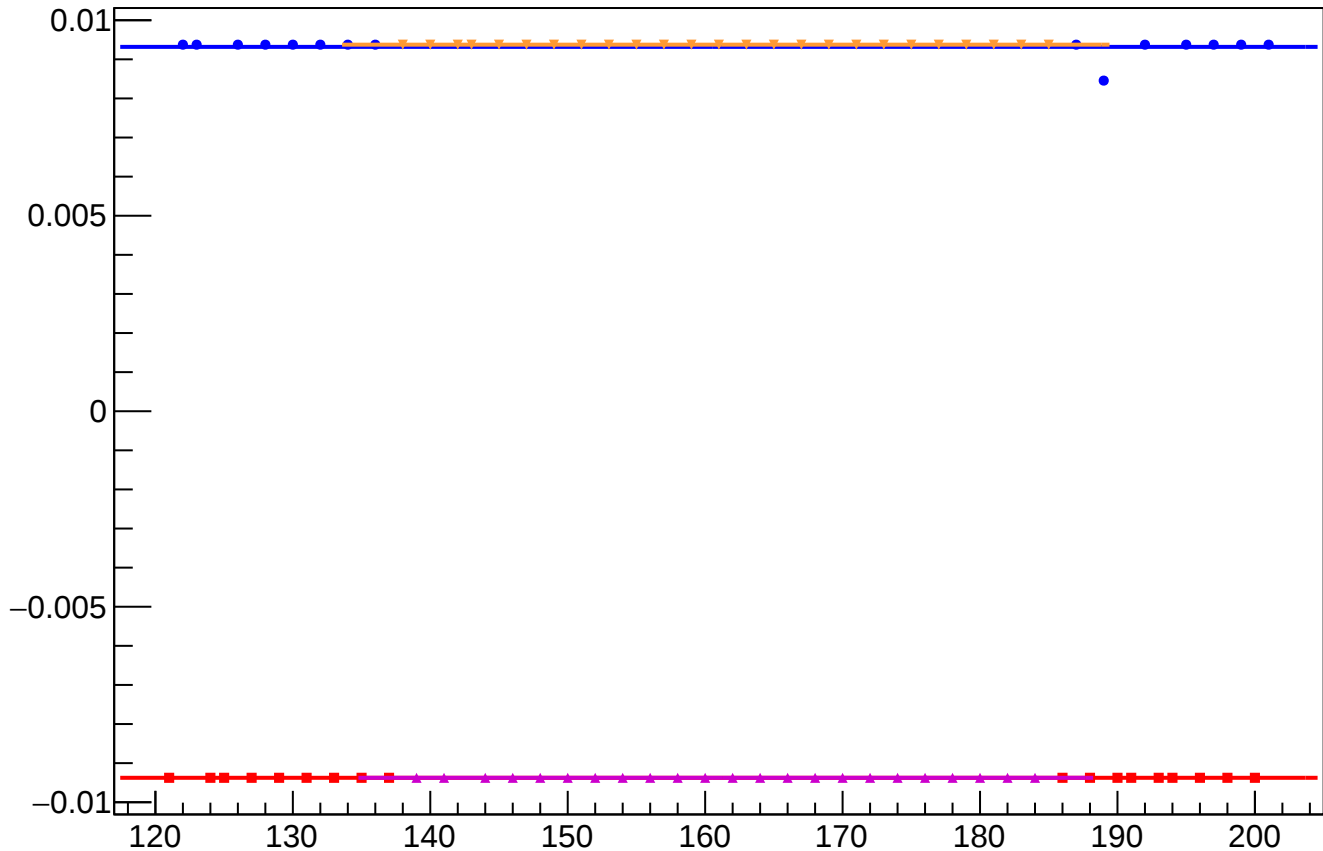
Left: 20.287+/-0.000 χ^2/NDF : 21619874128230354
 Right: -36.746+/-0.000 χ^2/NDF : 100144141452794
 In: -284.287+/-0.000 χ^2/NDF : 1317091883733202
 Out: 268.477+/-0.000 χ^2/NDF : 1432156676416711
 All: 1.980+/-0.000 χ^2/NDF : 31673138409019

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 971.873+/-0.000 χ^2/NDF : 439656757323967411197803035879276544.0/14
 Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24
 Right Out: -977.751+/-0.000 χ^2/NDF : 1762305474556793661717871591424.0/17
 Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22
 All: -0.534+/-0.000 χ^2/NDF : 5229672158776

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40439517413462641838391296.0/14

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/17

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1532439379514593

In: -0.003+/-0.000

χ^2/NDF : 199095023310172766

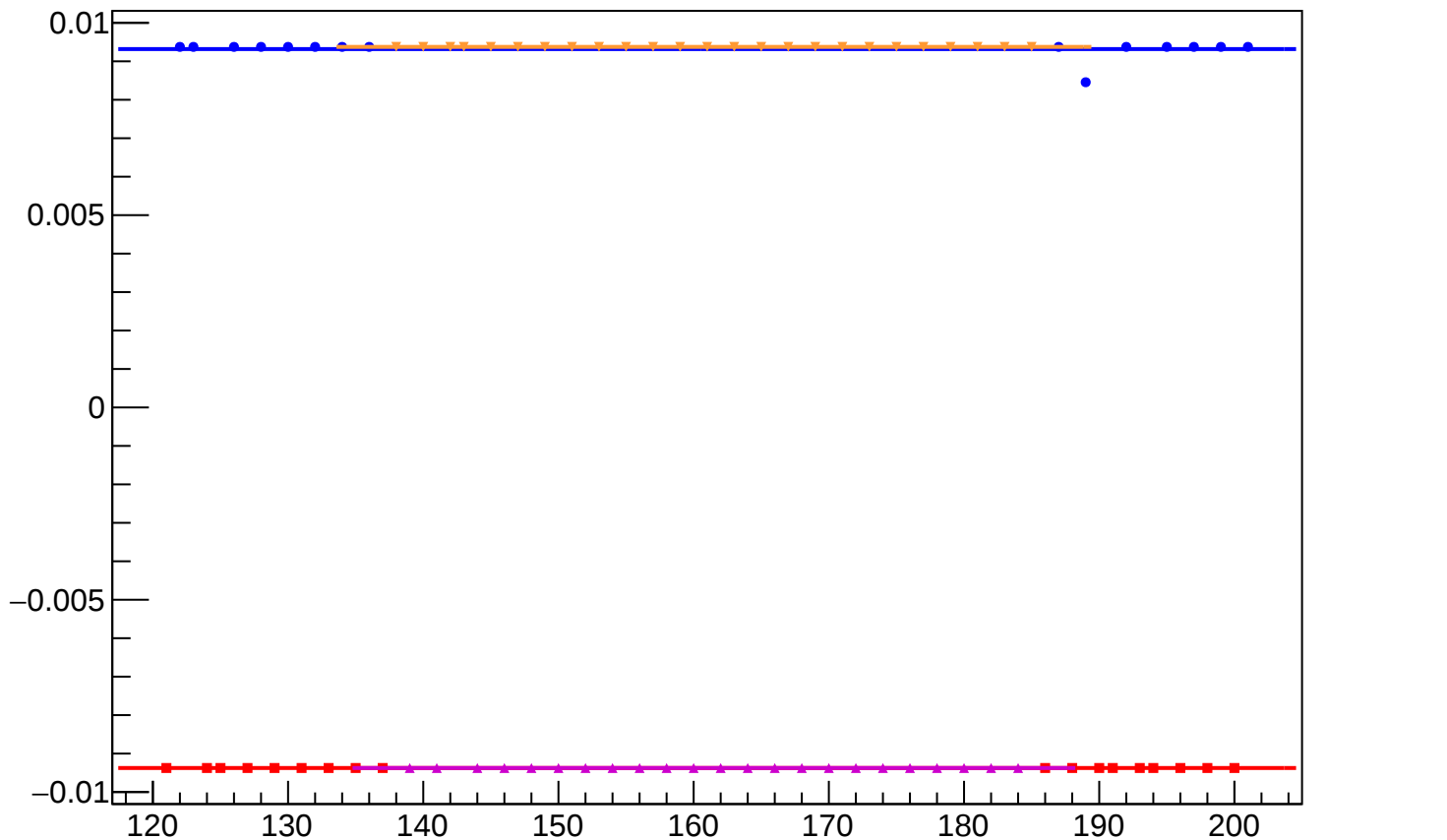
Out: 0.003+/-0.000

χ^2/NDF : 219569238900633655

All: -0.000+/-0.000

χ^2/NDF : 4808046580437

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40439517413462641838391296.0/14

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1532439379514593

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.003+/-0.000

χ^2/NDF : 199095023310172766

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/17

Out: 0.003+/-0.000

χ^2/NDF : 219569238900633655

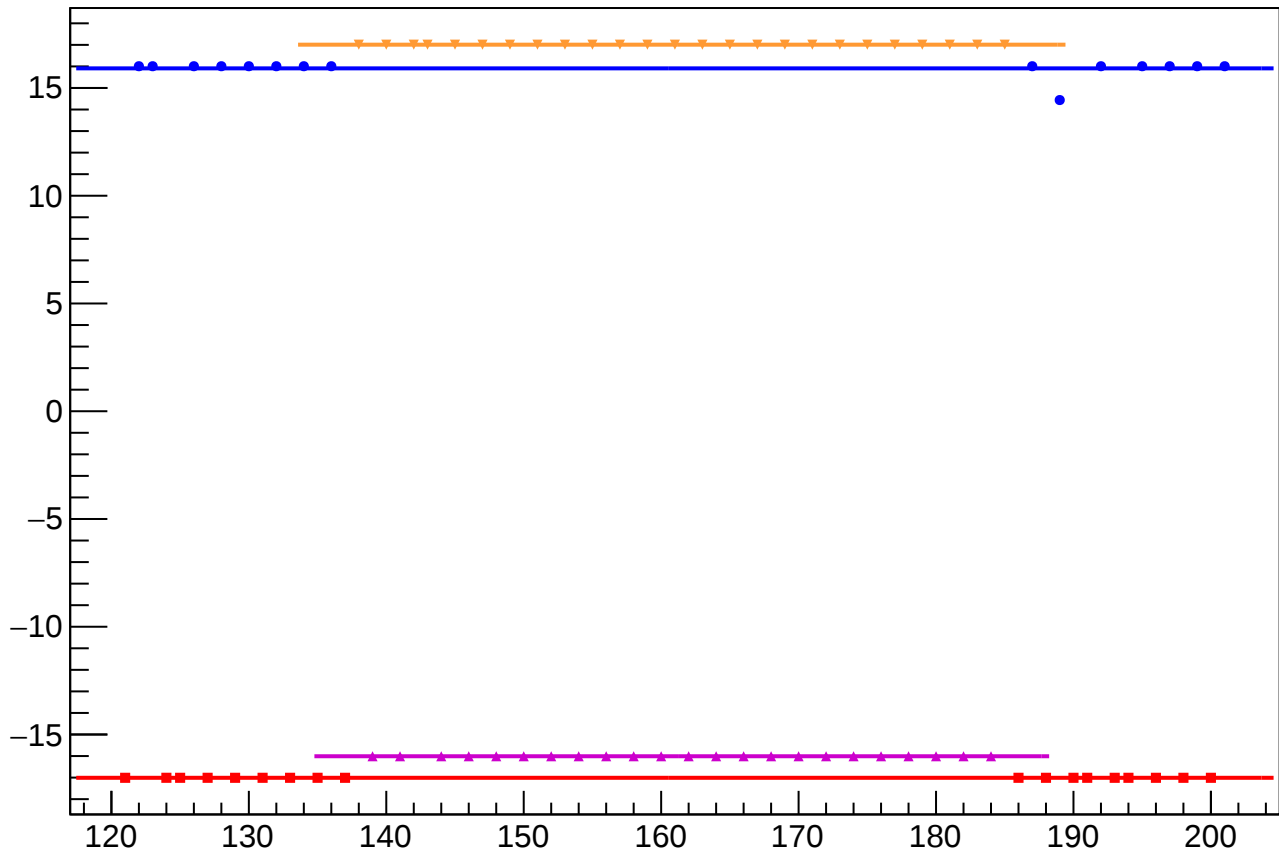
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: -0.000+/-0.000

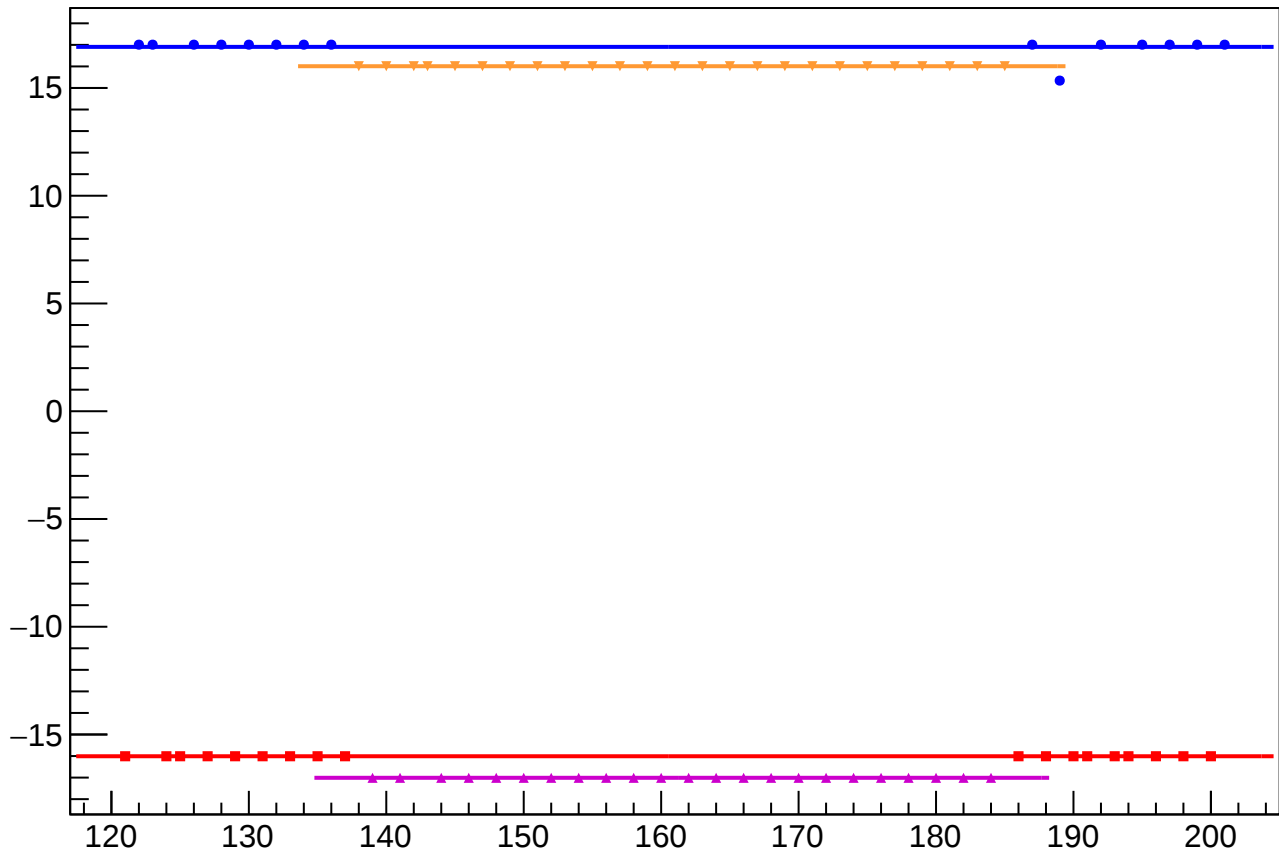
χ^2/NDF : 4808046580437

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



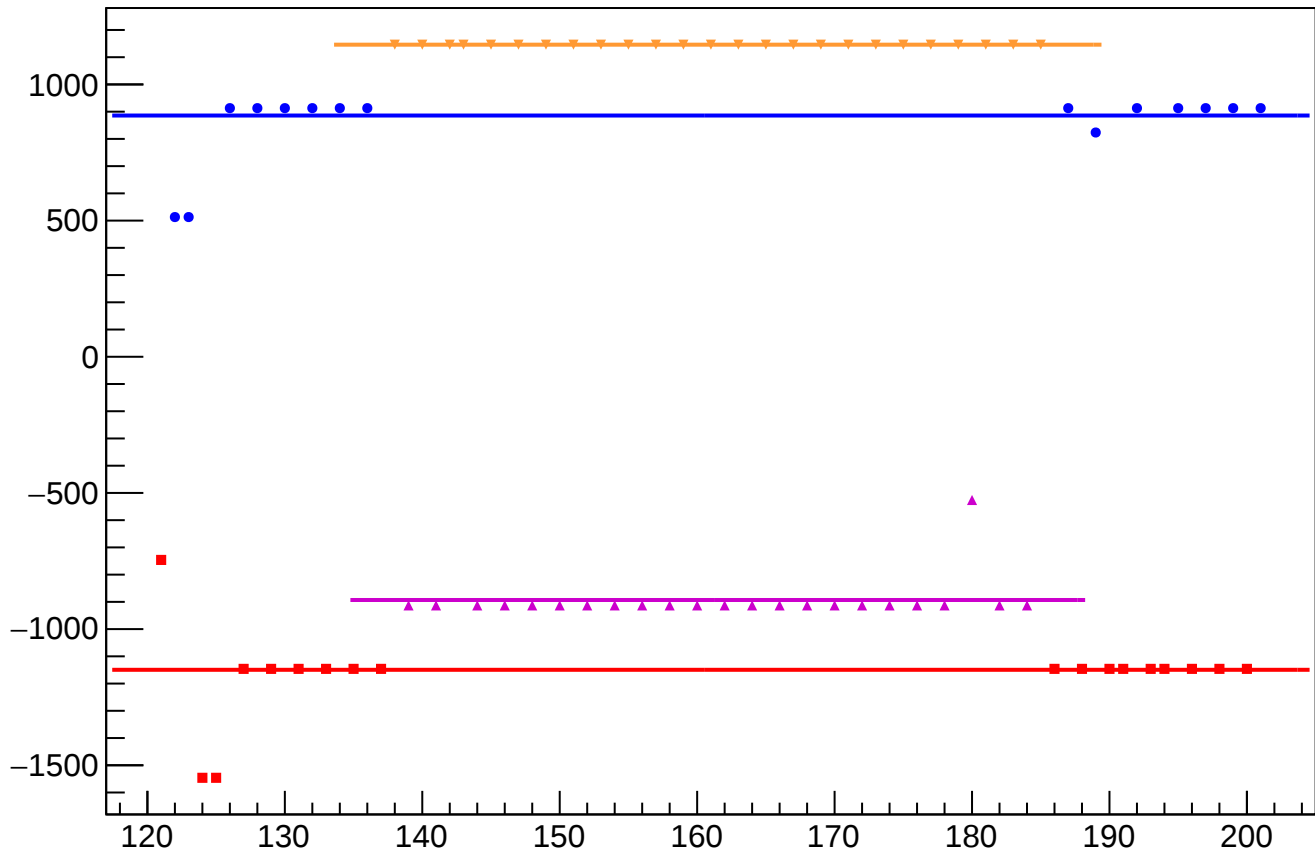
Right In: 15.910 ± 0.000 $\chi^2/\text{NDF}: 117677667926883955735463351812096.0/14$
 Left Out: 17.009 ± 0.000 $\chi^2/\text{NDF}: 26284444608576238643052544.0/24$
 Right Out: -17.009 ± 0.000 $\chi^2/\text{NDF}: 13521441142497224035401728.0/17$
 Left In: -16.009 ± 0.000 $\chi^2/\text{NDF}: 127973174512756677672960.0/22$
 All: 0.105 ± 0.000 $\chi^2/\text{NDF}: 14125702296160.0/22$

IGL1I00OD16_16_mean vs Slug, Sign Corrected



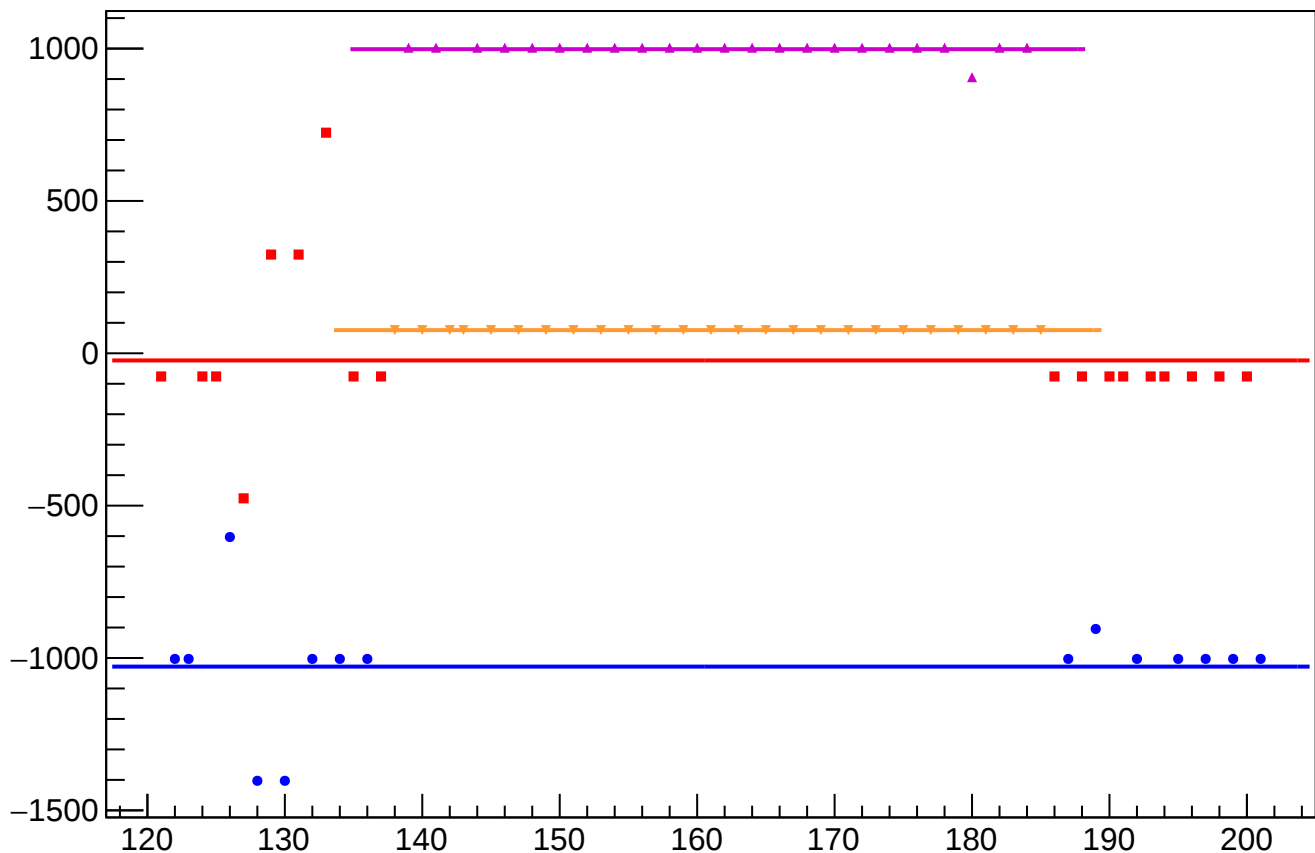
Right In: 16.907 $\pm$ 0.000 χ^2 /NDF: 133119023592343308984050444664832.0/14
 Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 89740.8/24
 Right Out: -16.009 $\pm$ 0.000 χ^2 /NDF: 213951.7/17
 Left In: -17.009 $\pm$ 0.000 χ^2 /NDF: 115033472633445654986752.0/22
 Left: 0.042 $\pm$ 0.000 χ^2 /NDF: 99431233770062905
 Right: -0.459 $\pm$ 0.000 χ^2 /NDF: 4751488723693880
 In: -6.157 $\pm$ 0.000 χ^2 /NDF: 650172112757924189
 Out: 5.450 $\pm$ 0.000 χ^2 /NDF: 637638186534293710
 All: -0.120 $\pm$ 0.000 χ^2 /NDF: 1469759476085

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 885.840 ± 0.000 $\chi^2/\text{NDF}: 6995959155520191606718079797324414976.0/14$
 Left Out: 1146.011 ± 0.000 $\chi^2/\text{NDF}: 8041760976861450519237885952.0/24$
 Right Out: -1149.458 ± 0.000 $\chi^2/\text{NDF}: 13749631748877392822591004728971231232.0/17$
 Left In: -893.116 ± 0.000 $\chi^2/\text{NDF}: 13219826761707982974212661987208331264.0/22$
 All: 43.957 ± 0.000 $\chi^2/\text{NDF}: 585463586946$

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1028.242+/-0.000

χ^2/NDF : 23162847495419230756471442199711580160.0/14

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: -23.424+/-0.000

χ^2/NDF : 44473523336961314133920913772251185152.0/17

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

All: 196.421+/-0.000 χ^2/NDF : 255101914038