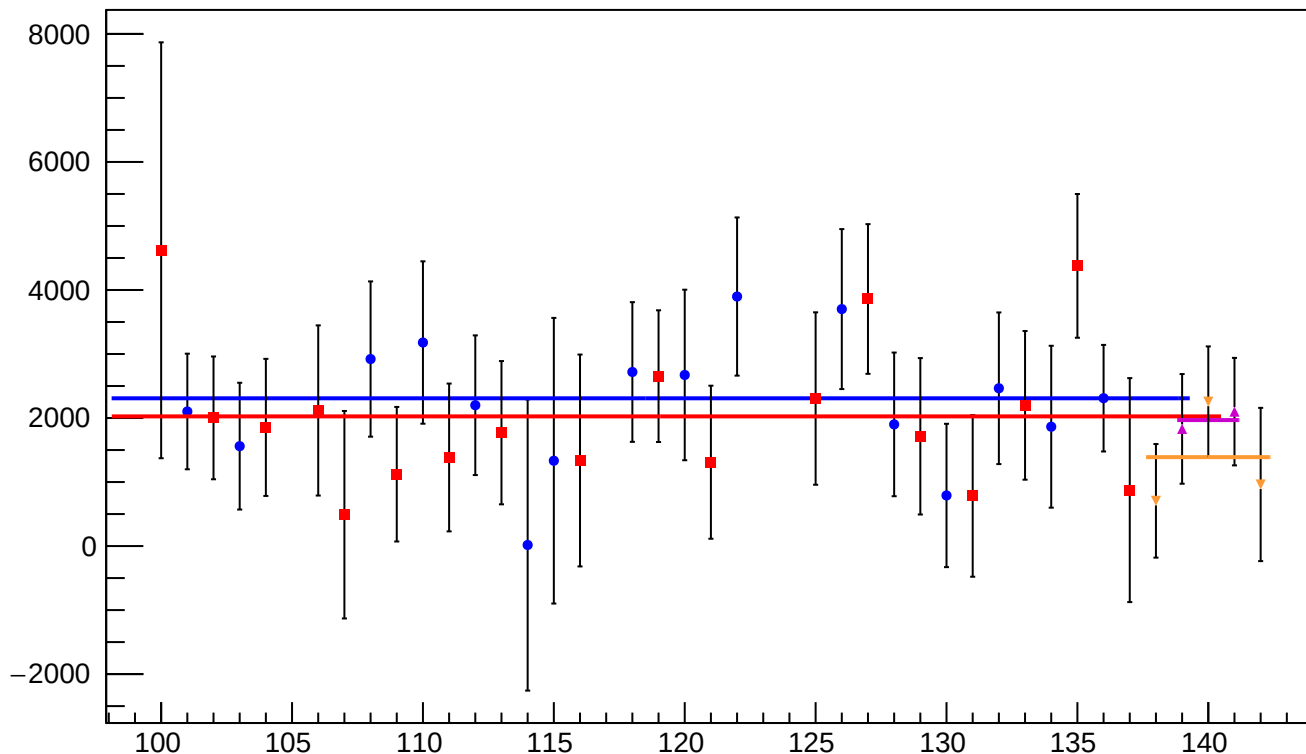


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2308.155+/-290.431

Left Out: 1388.917+/-549.519

Right Out: 2025.627+/-289.797

Left In: 1967.774+/-599.568

χ^2/NDF : 7.8/15

χ^2/NDF : 1.7/2

χ^2/NDF : 11.9/17

χ^2/NDF : 0.1/1

Left: 1653.181+/-405.109

Right: 2166.582+/-205.141

In: 2243.465+/-261.380

Out: 1887.081+/-256.336

All: 2061.801+/-183.014

χ^2/NDF : 2.3/4

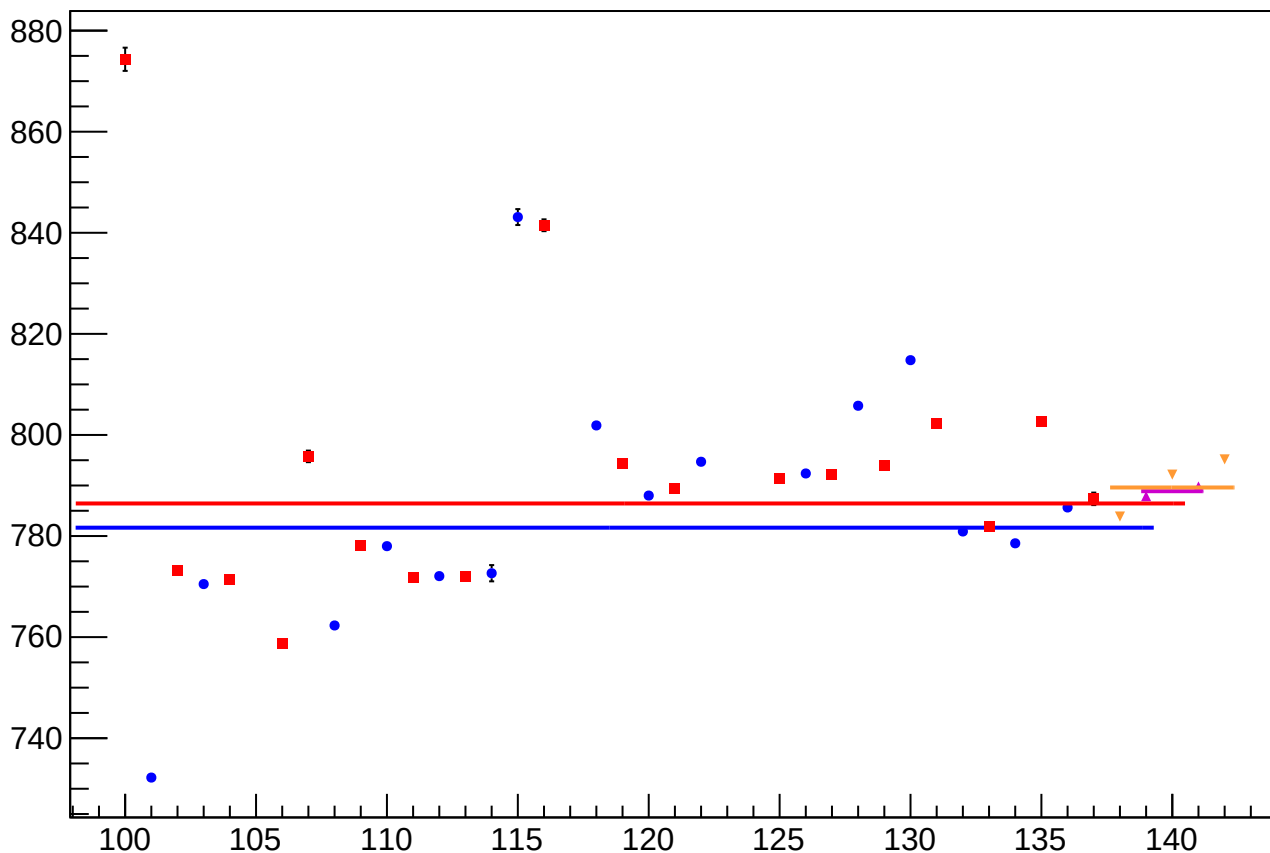
χ^2/NDF : 20.2/33

χ^2/NDF : 8.1/17

χ^2/NDF : 14.7/20

χ^2/NDF : 23.8/38

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 781.654+/-0.205 χ^2/NDF : 12319.0/15

Left Out: 789.606+/-0.389 χ^2/NDF : 144.5/2

Right Out: 786.443+/-0.205 χ^2/NDF : 7201.6/17

Left In: 788.870+/-0.424 χ^2/NDF : 5.1/1

Left: 789.270+/-0.286 χ^2/NDF : 151.2/4

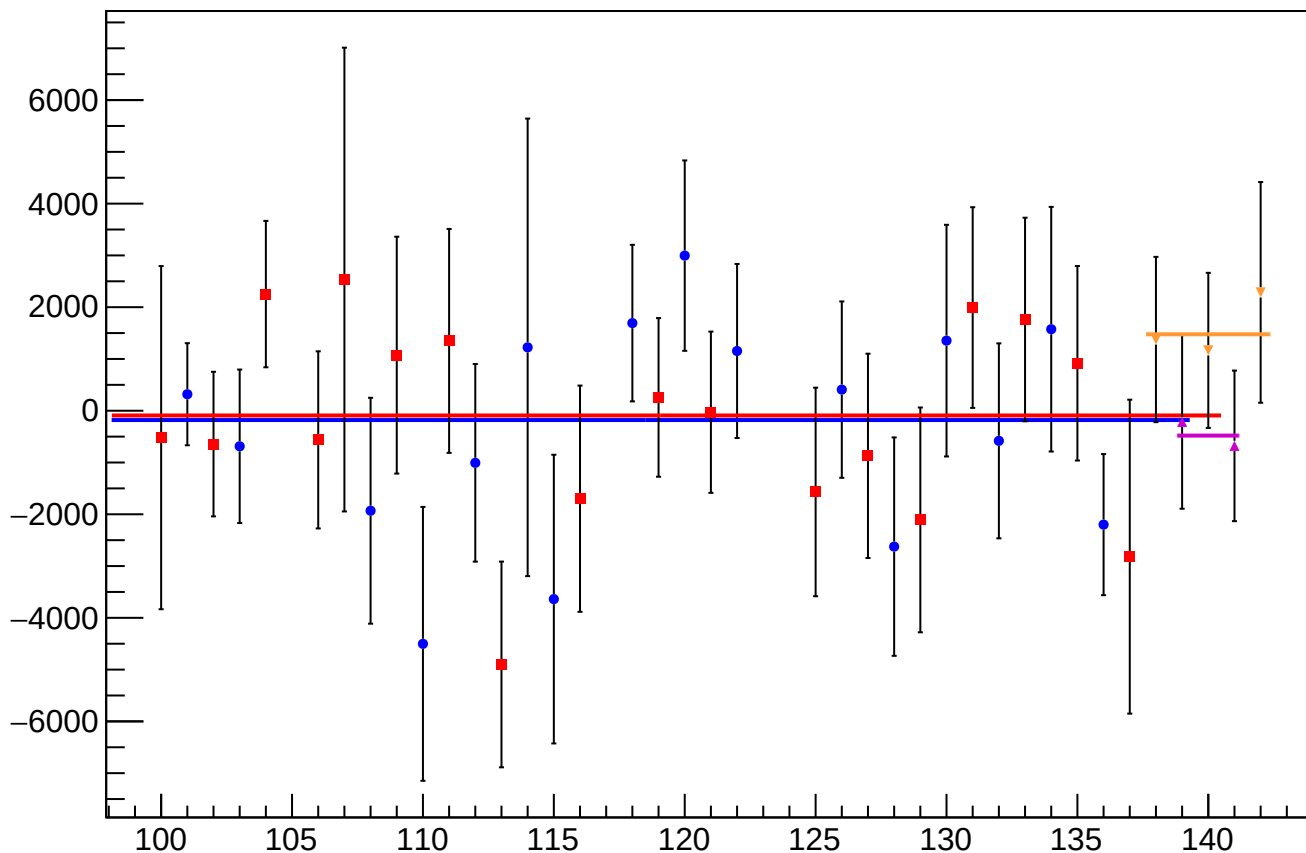
Right: 784.054+/-0.145 χ^2/NDF : 19793.2/33

In: 783.025+/-0.185 χ^2/NDF : 12558.8/17

Out: 787.131+/-0.181 χ^2/NDF : 7397.8/20

All: 785.118+/-0.129 χ^2/NDF : 20208.2/38

asym_us_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -179.929+/-440.772 χ^2/NDF : 15.4/15

Left Out: 1476.444+/-972.028 χ^2/NDF : 0.2/2

Right Out: -91.288+/-454.811 χ^2/NDF : 15.2/17

Left In: -480.146+/-1098.767 χ^2/NDF : 0.0/1

Left: 617.452+/-728.032 χ^2/NDF : 2.0/4

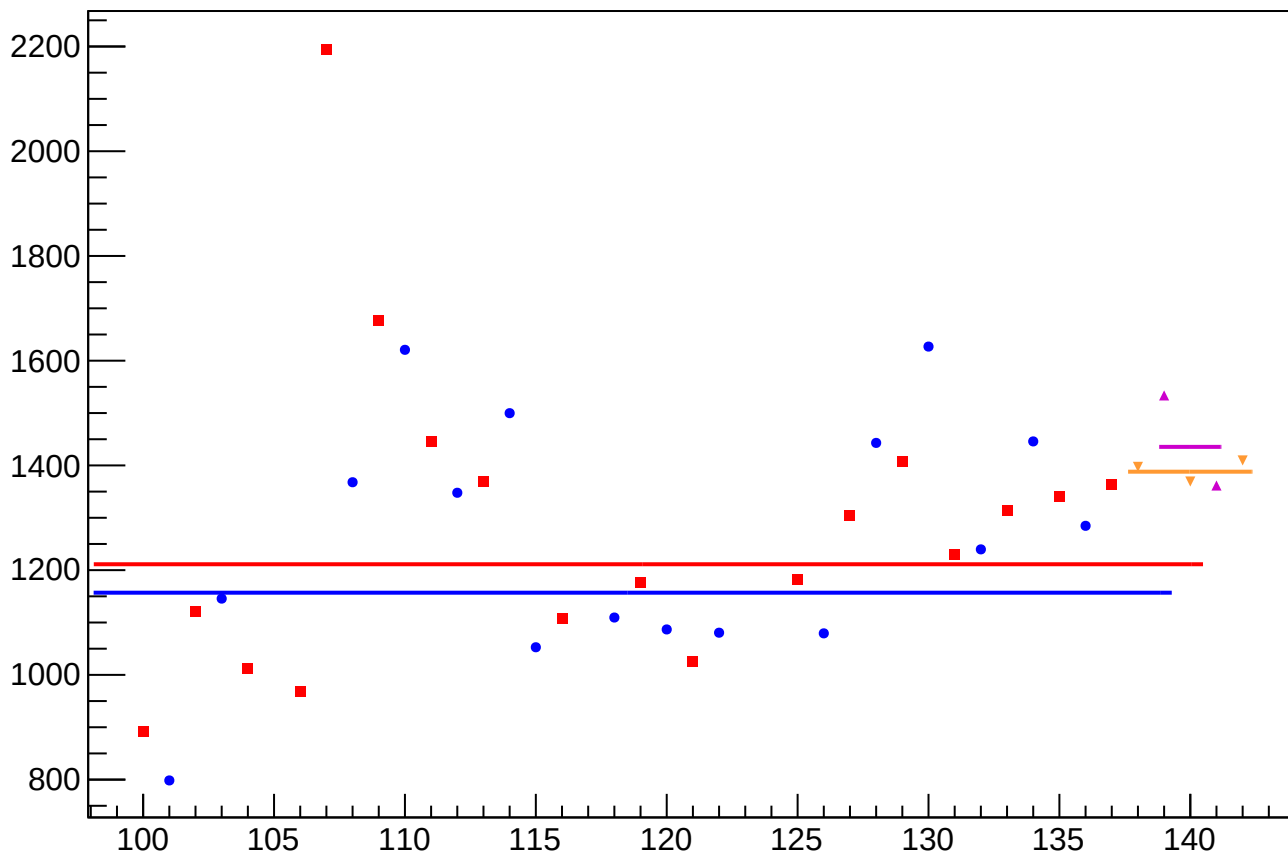
Right: -136.998+/-316.519 χ^2/NDF : 30.6/33

In: -221.544+/-409.084 χ^2/NDF : 15.5/17

Out: 190.289+/-411.947 χ^2/NDF : 17.5/20

All: -17.064+/-290.273 χ^2/NDF : 33.5/38

asym_us_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1156.948+/-0.312 χ^2/NDF : 569119.8/15

Left Out: 1388.025+/-0.687 χ^2/NDF :584.4/2

Right Out: 1211.264+/-0.322 χ^2/NDF : 397714.5/17

Left In: 1435.424+/-0.777 χ^2/NDF :12009.4/1

Left: 1408.834+/-0.515 χ^2/NDF : 14681.7/4

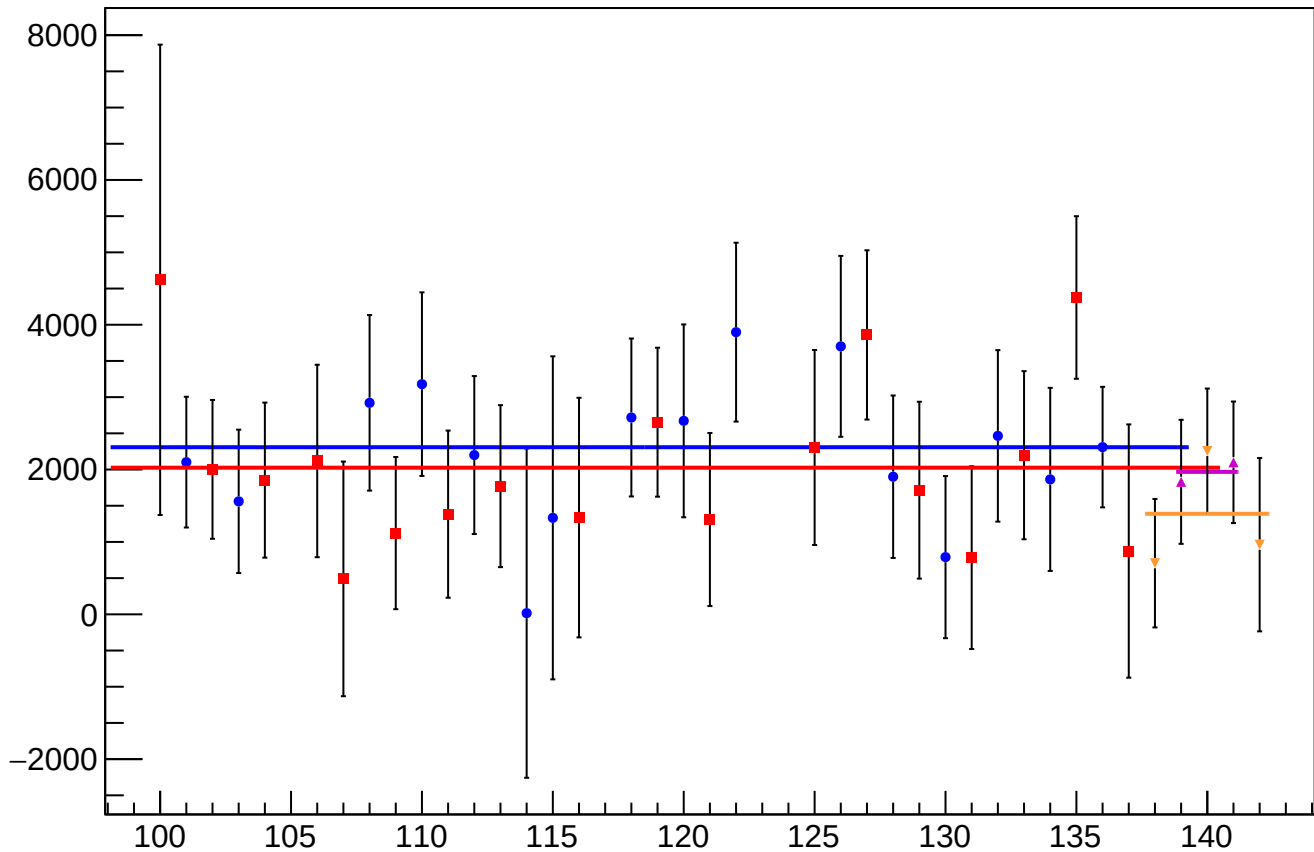
Right: 1183.255+/-0.224 χ^2/NDF : 981543.7/33

In: 1195.549+/-0.289 χ^2/NDF :691789.6/17

Out: 1243.012+/-0.291 χ^2/NDF :452557.3/20

All: 1219.115+/-0.205 χ^2/NDF : 1157713.9/38

cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2308.155+/-290.431 χ^2/NDF : 7.8/15

Left Out: 1388.917+/-549.519 χ^2/NDF : 1.7/2

Right Out: 2025.627+/-289.797 χ^2/NDF : 11.9/17

Left In: 1967.774+/-599.568 χ^2/NDF : 0.1/1

Left: 1653.181+/-405.109 χ^2/NDF : 2.3/4

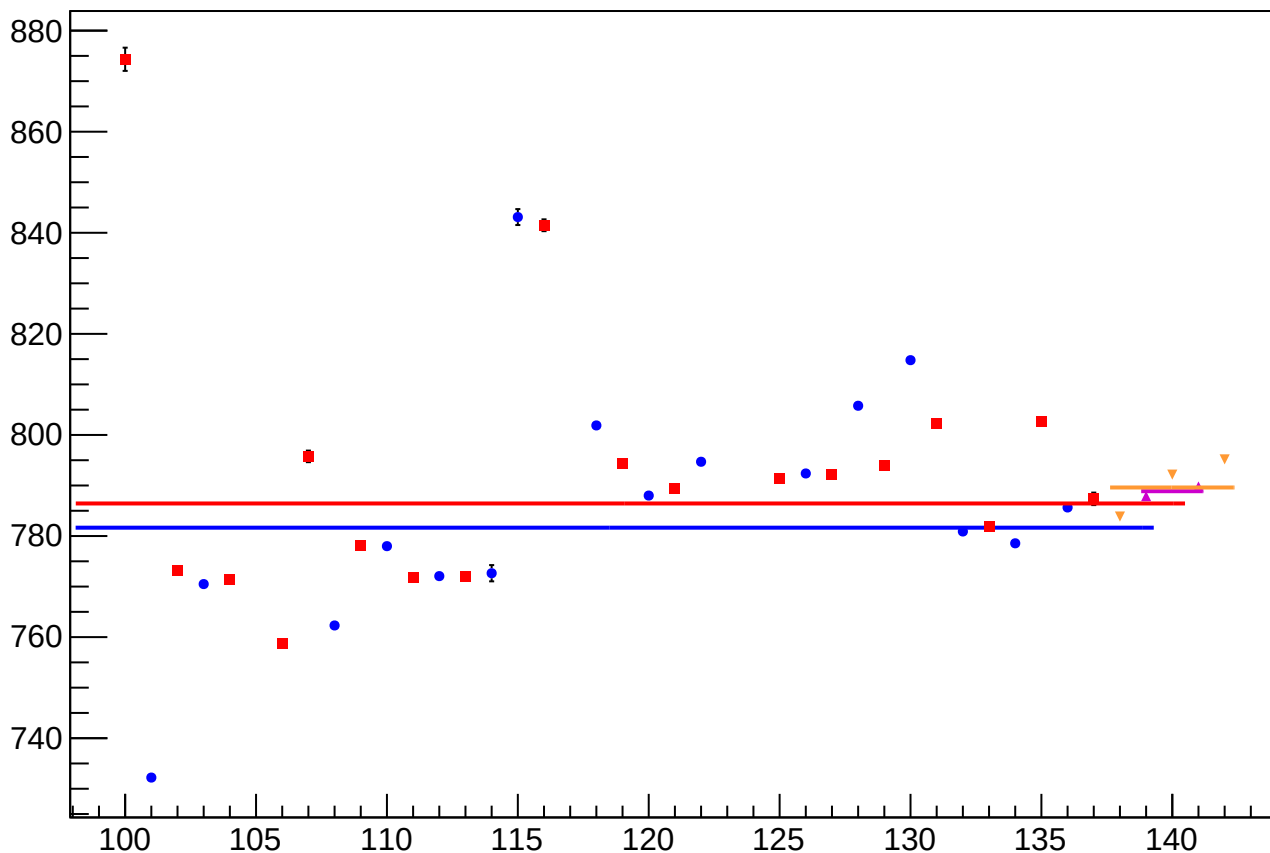
Right: 2166.582+/-205.141 χ^2/NDF : 20.2/33

In: 2243.465+/-261.380 χ^2/NDF : 8.1/17

Out: 1887.081+/-256.336 χ^2/NDF : 14.7/20

All: 2061.801+/-183.014 χ^2/NDF : 23.8/38

cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 781.654 $\pm$ 0.205 χ^2 /NDF: 12319.0/15

Left Out: 789.606 $\pm$ 0.389 χ^2 /NDF:144.5/2

Right Out: 786.443 $\pm$ 0.205 χ^2 /NDF: 7201.6/17

Left In: 788.870 $\pm$ 0.424 χ^2 /NDF:5.1/1

Left: 789.270 $\pm$ 0.286 χ^2 /NDF: 151.2/4

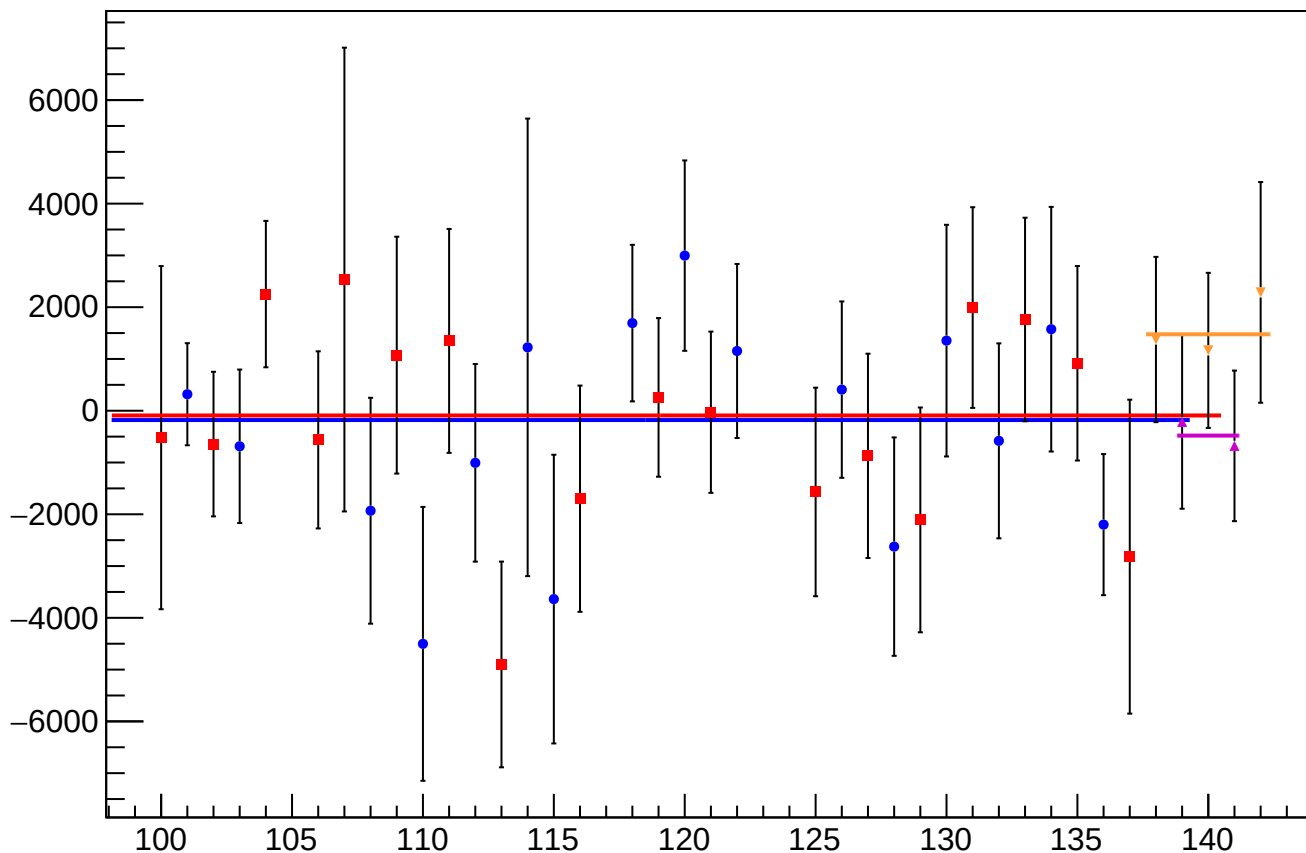
Right: 784.054 $\pm$ 0.145 χ^2 /NDF: 19793.2/33

In: 783.025 $\pm$ 0.185 χ^2 /NDF:12558.8/17

Out: 787.131 $\pm$ 0.181 χ^2 /NDF:7397.8/20

All: 785.118 $\pm$ 0.129 χ^2 /NDF: 20208.2/38

asym_us_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -179.929+/-440.772 χ^2/NDF : 15.4/15

Left Out: 1476.444+/-972.028 χ^2/NDF : 0.2/2

Right Out: -91.288+/-454.811 χ^2/NDF : 15.2/17

Left In: -480.146+/-1098.767 χ^2/NDF : 0.0/1

Left: 617.452+/-728.032 χ^2/NDF : 2.0/4

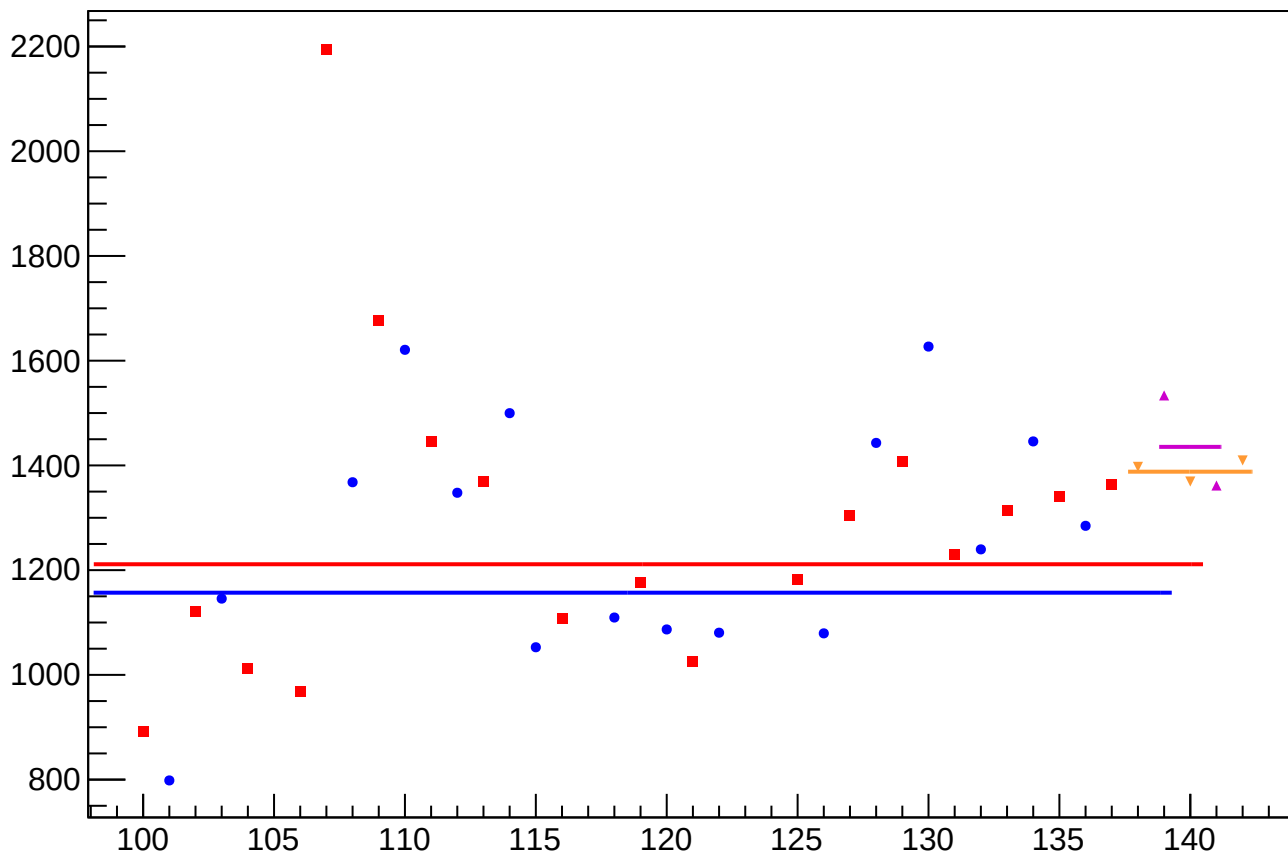
Right: -136.998+/-316.519 χ^2/NDF : 30.6/33

In: -221.544+/-409.084 χ^2/NDF : 15.5/17

Out: 190.289+/-411.947 χ^2/NDF : 17.5/20

All: -17.064+/-290.273 χ^2/NDF : 33.5/38

asym_us_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1156.948 $\pm$ 0.312 χ^2/NDF : 569119.8/15

Left Out: 1388.025 $\pm$ 0.687 χ^2/NDF : 584.4/2

Right Out: 1211.264 $\pm$ 0.322 χ^2/NDF : 397714.5/17

Left In: 1435.424 $\pm$ 0.777 χ^2/NDF : 12009.4/1

Left: 1408.834 $\pm$ 0.515 χ^2/NDF : 14681.7/4

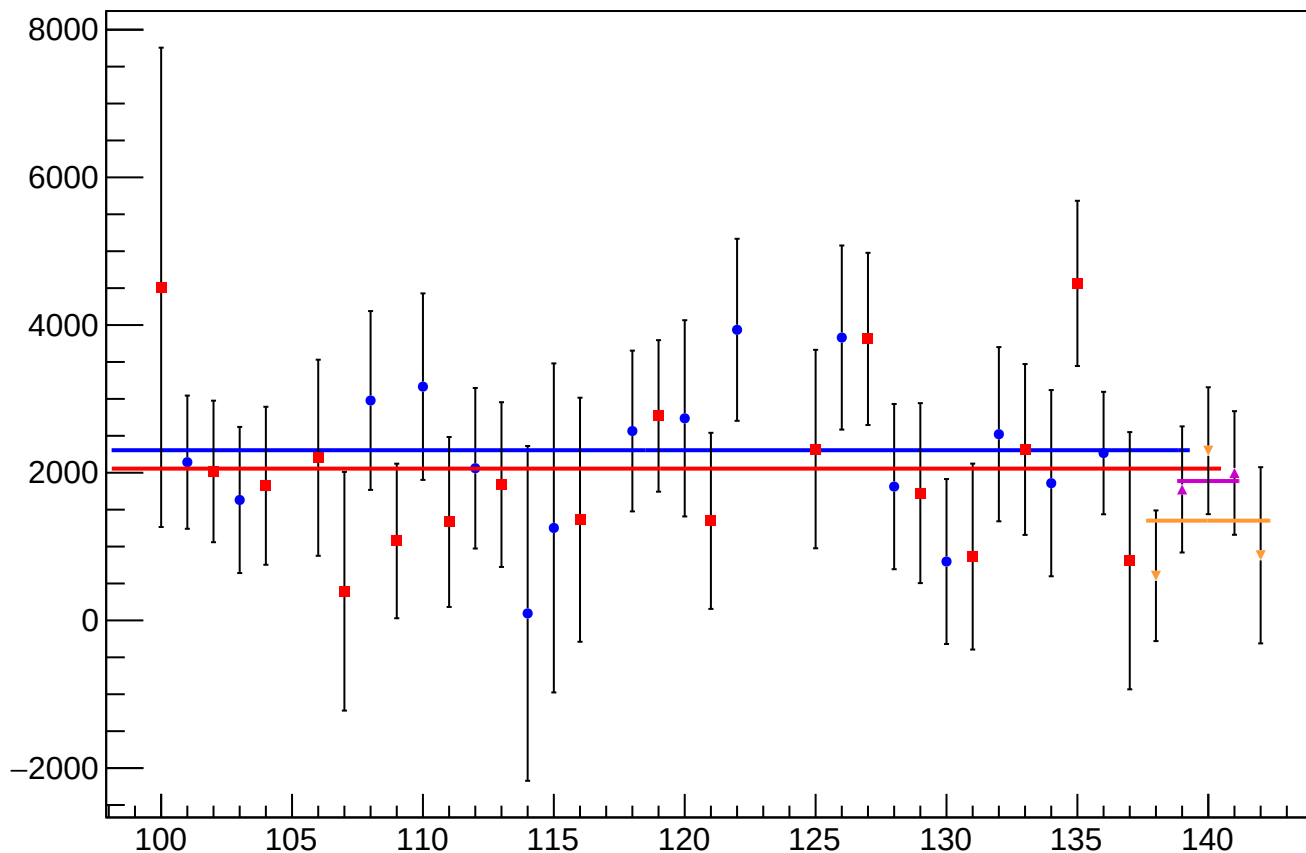
Right: 1183.255 $\pm$ 0.224 χ^2/NDF : 981543.7/33

In: 1195.549 $\pm$ 0.289 χ^2/NDF : 691789.6/17

Out: 1243.012 $\pm$ 0.291 χ^2/NDF : 452557.3/20

All: 1219.115 $\pm$ 0.205 χ^2/NDF : 1157713.9/38

overload_cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2304.852 $\pm$ 289.704 χ^2 /NDF: 8.1/15

Left Out: 1350.982 $\pm$ 547.691 χ^2 /NDF:2.1/2

Right Out: 2055.666 $\pm$ 289.090 χ^2 /NDF: 12.9/17

Left In: 1887.495 $\pm$ 597.817 χ^2 /NDF:0.0/1

Left: 1595.807 $\pm$ 403.836 χ^2 /NDF: 2.6/4

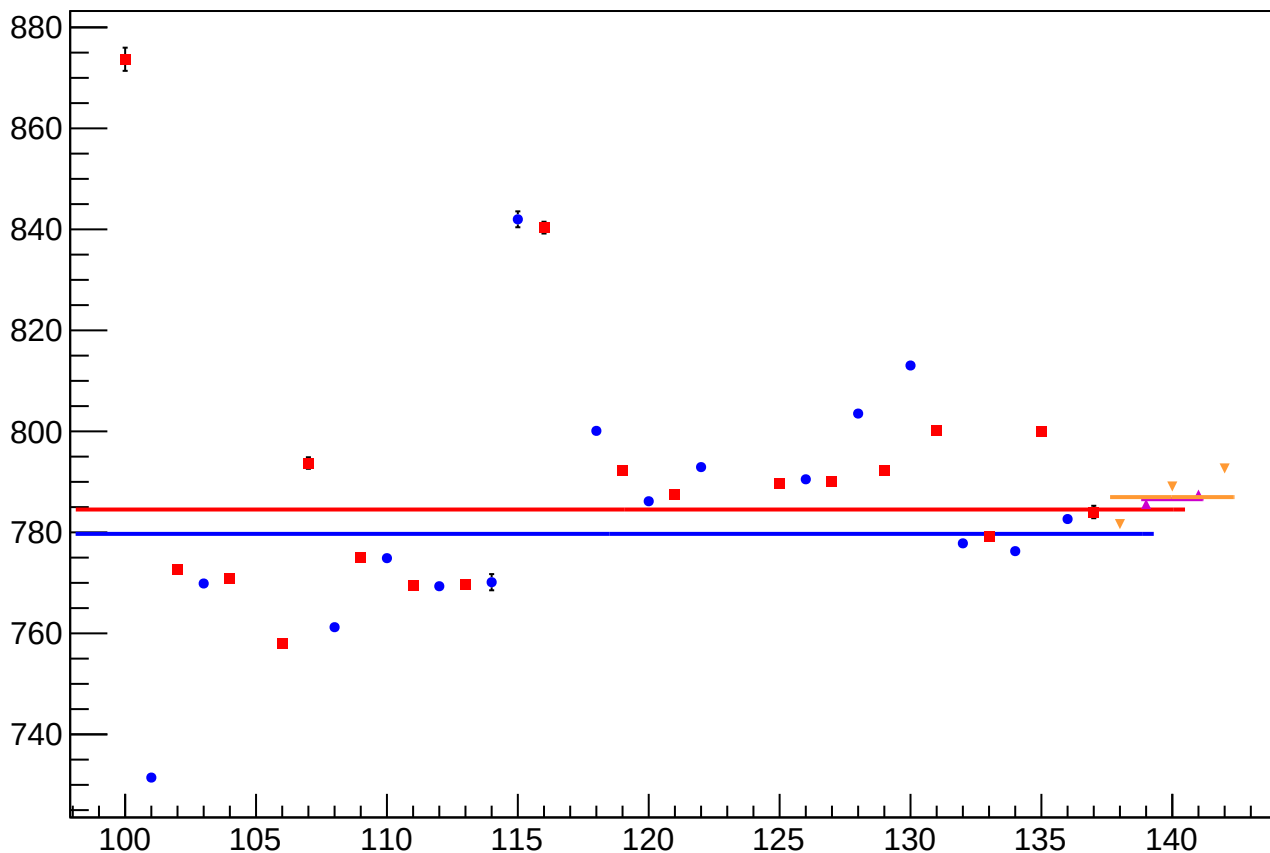
Right: 2179.995 $\pm$ 204.634 χ^2 /NDF: 21.3/33

In: 2225.480 $\pm$ 260.705 χ^2 /NDF:8.5/17

Out: 1902.116 $\pm$ 255.661 χ^2 /NDF:16.2/20

All: 2060.640 $\pm$ 182.537 χ^2 /NDF: 25.5/38

overload_cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 779.702 $\pm$ 0.205 χ^2/NDF : 12060.2/15

Left Out: 786.983 $\pm$ 0.387 χ^2/NDF :130.2/2

Right Out: 784.524 $\pm$ 0.204 χ^2/NDF : 7160.0/17

Left In: 786.570 $\pm$ 0.423 χ^2/NDF :4.9/1

Left: 786.795 $\pm$ 0.286 χ^2/NDF : 135.6/4

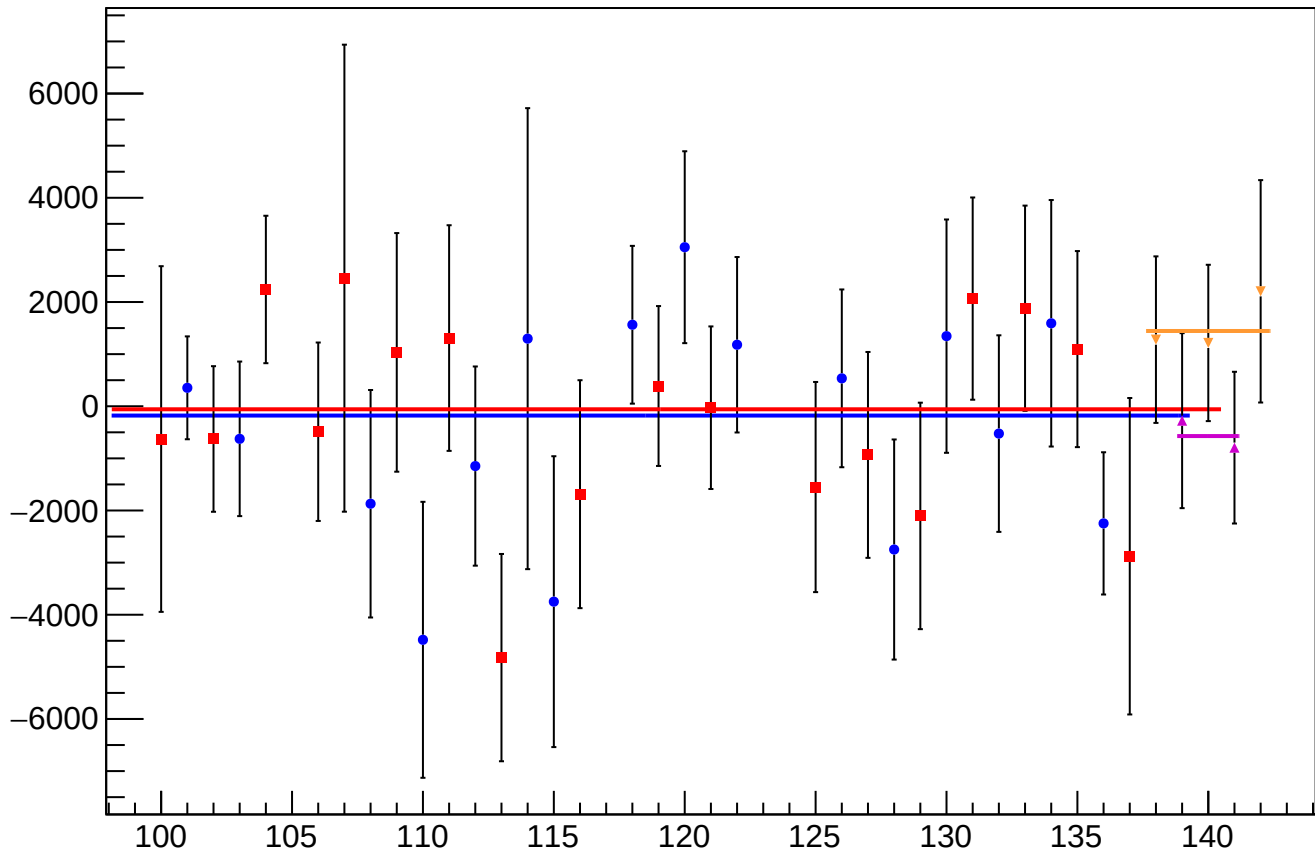
Right: 782.118 $\pm$ 0.145 χ^2/NDF : 19498.0/33

In: 781.008 $\pm$ 0.184 χ^2/NDF :12278.9/17

Out: 785.060 $\pm$ 0.181 χ^2/NDF :7321.8/20

All: 783.074 $\pm$ 0.129 χ^2/NDF : 19846.9/38

asym_us_avg_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: -178.457+/-441.218 χ^2/NDF : 15.7/15

Left Out: 1444.340+/-973.077 χ^2/NDF : 0.2/2

Right Out: -58.040+/-455.216 χ^2/NDF : 15.3/17

Left In: -571.866+/-1099.722 χ^2/NDF : 0.1/1

Left: 558.966+/-728.750 χ^2/NDF : 2.1/4

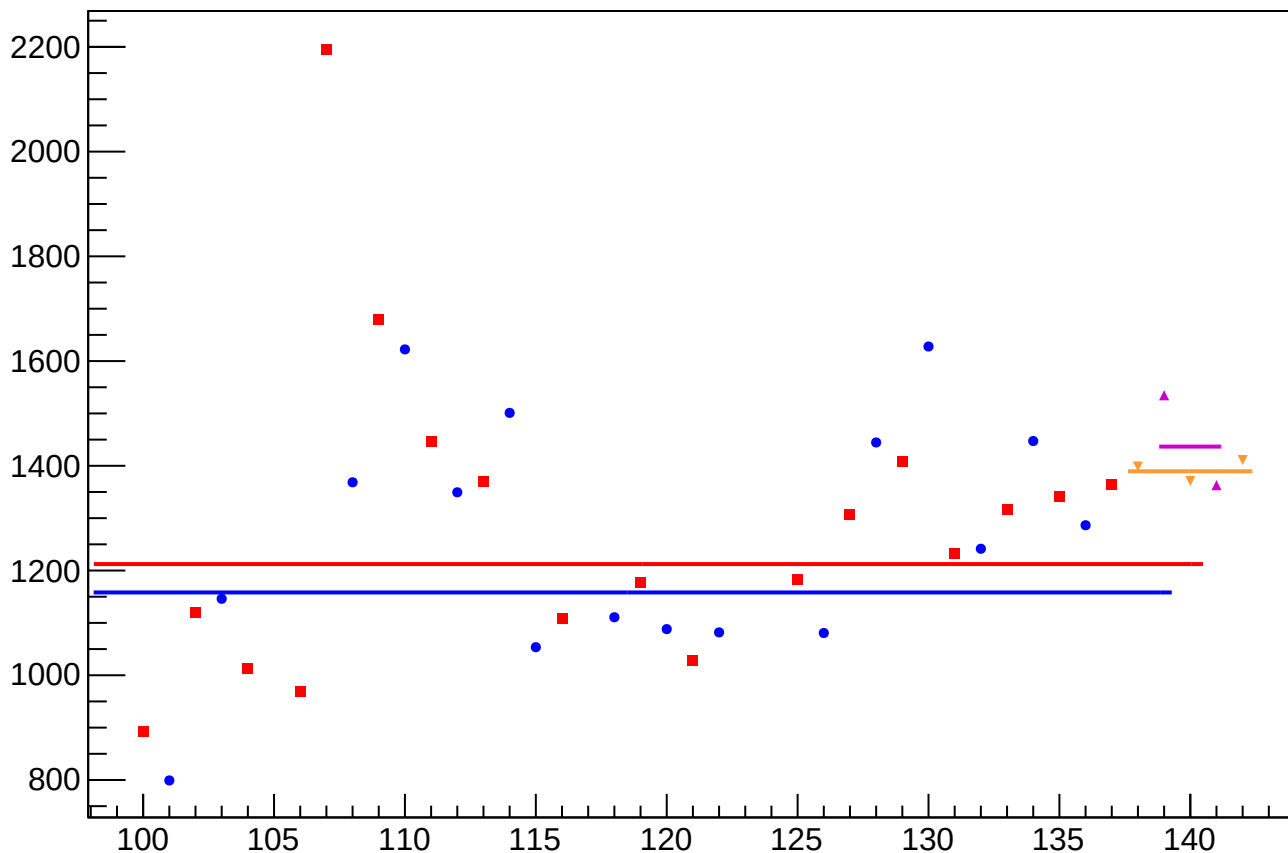
Right: -120.128+/-316.821 χ^2/NDF : 31.0/33

In: -233.003+/-409.489 χ^2/NDF : 15.9/17

Out: 211.716+/-412.328 χ^2/NDF : 17.4/20

All: -12.179+/-290.551 χ^2/NDF : 33.8/38

asym_us_avg_overload_cor_correction_rms vs Slug, Sign Corrected



Right In: 1158.134+/-0.312 χ^2/NDF : 569144.8/15

Left Out: 1389.545+/-0.688 χ^2/NDF : 570.5/2

Right Out: 1212.347+/-0.322 χ^2/NDF : 397938.1/17

Left In: 1436.692+/-0.778 χ^2/NDF : 11941.8/1

Left: 1410.249+/-0.515 χ^2/NDF : 14573.9/4

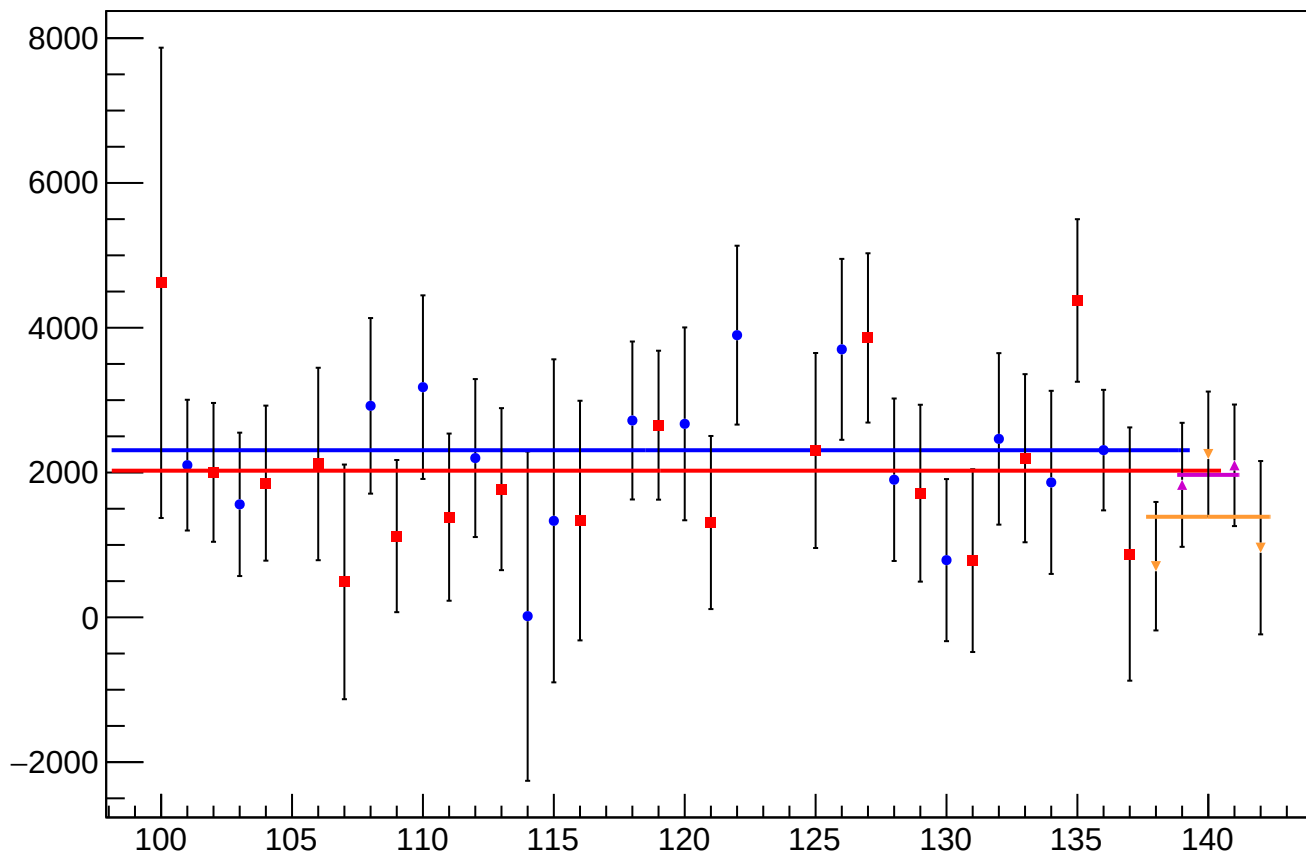
Right: 1184.394+/-0.224 χ^2/NDF : 981708.9/33

In: 1196.756+/-0.290 χ^2/NDF : 691615.6/17

Out: 1244.163+/-0.292 χ^2/NDF : 452922.2/20

All: 1220.296+/-0.205 χ^2/NDF : 1157848.4/38

eigen_cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2308.155+/-290.431 χ^2/NDF : 7.8/15

Left Out: 1388.917+/-549.519 χ^2/NDF : 1.7/2

Right Out: 2025.627+/-289.797 χ^2/NDF : 11.9/17

Left In: 1967.774+/-599.568 χ^2/NDF : 0.1/1

Left: 1653.181+/-405.109 χ^2/NDF : 2.3/4

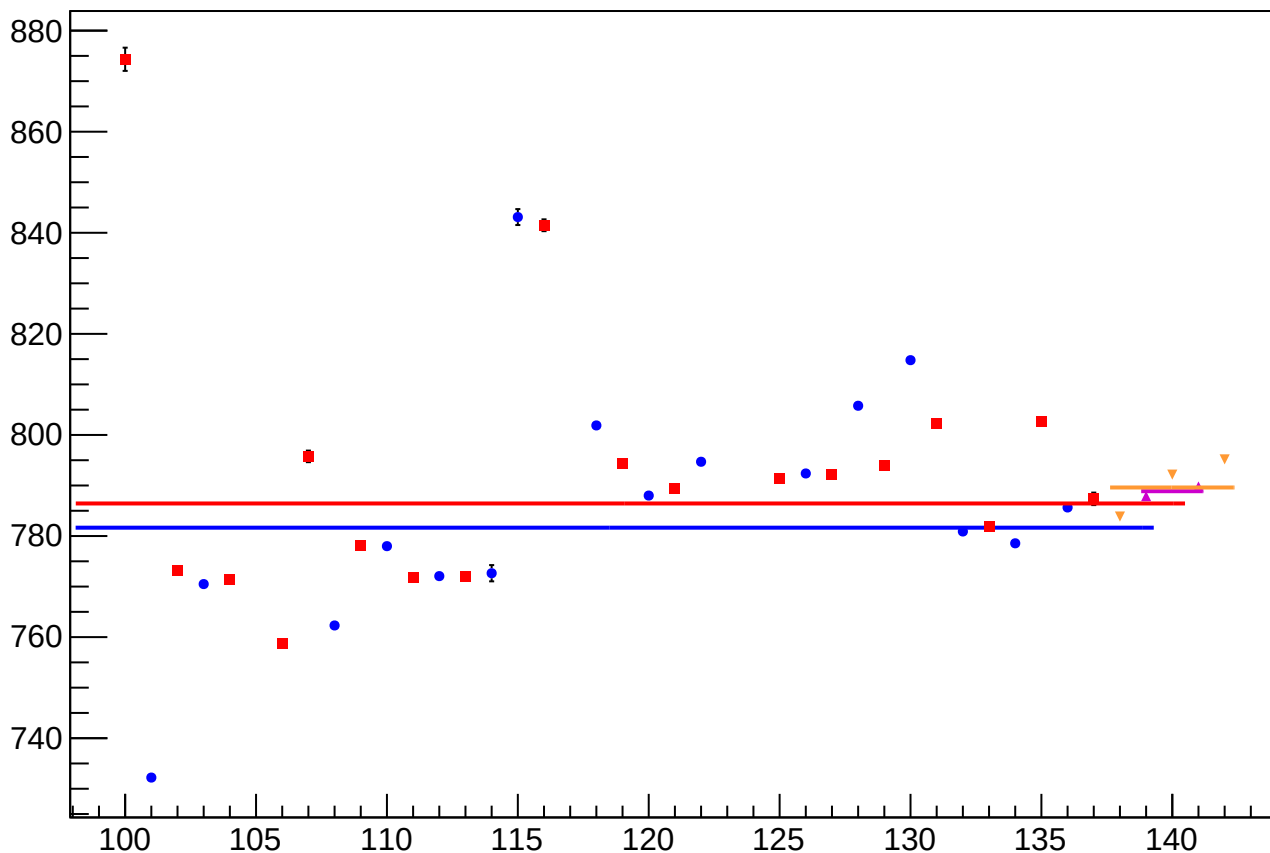
Right: 2166.582+/-205.141 χ^2/NDF : 20.2/33

In: 2243.465+/-261.380 χ^2/NDF : 8.1/17

Out: 1887.081+/-256.336 χ^2/NDF : 14.7/20

All: 2061.801+/-183.014 χ^2/NDF : 23.8/38

eigen_cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 781.654 $\pm$ 0.205 χ^2/NDF : 12319.0/15

Left Out: 789.606 $\pm$ 0.389 χ^2/NDF : 144.5/2

Right Out: 786.443 $\pm$ 0.205 χ^2/NDF : 7201.6/17

Left In: 788.870 $\pm$ 0.424 χ^2/NDF : 5.1/1

Left: 789.270 $\pm$ 0.286 χ^2/NDF : 151.2/4

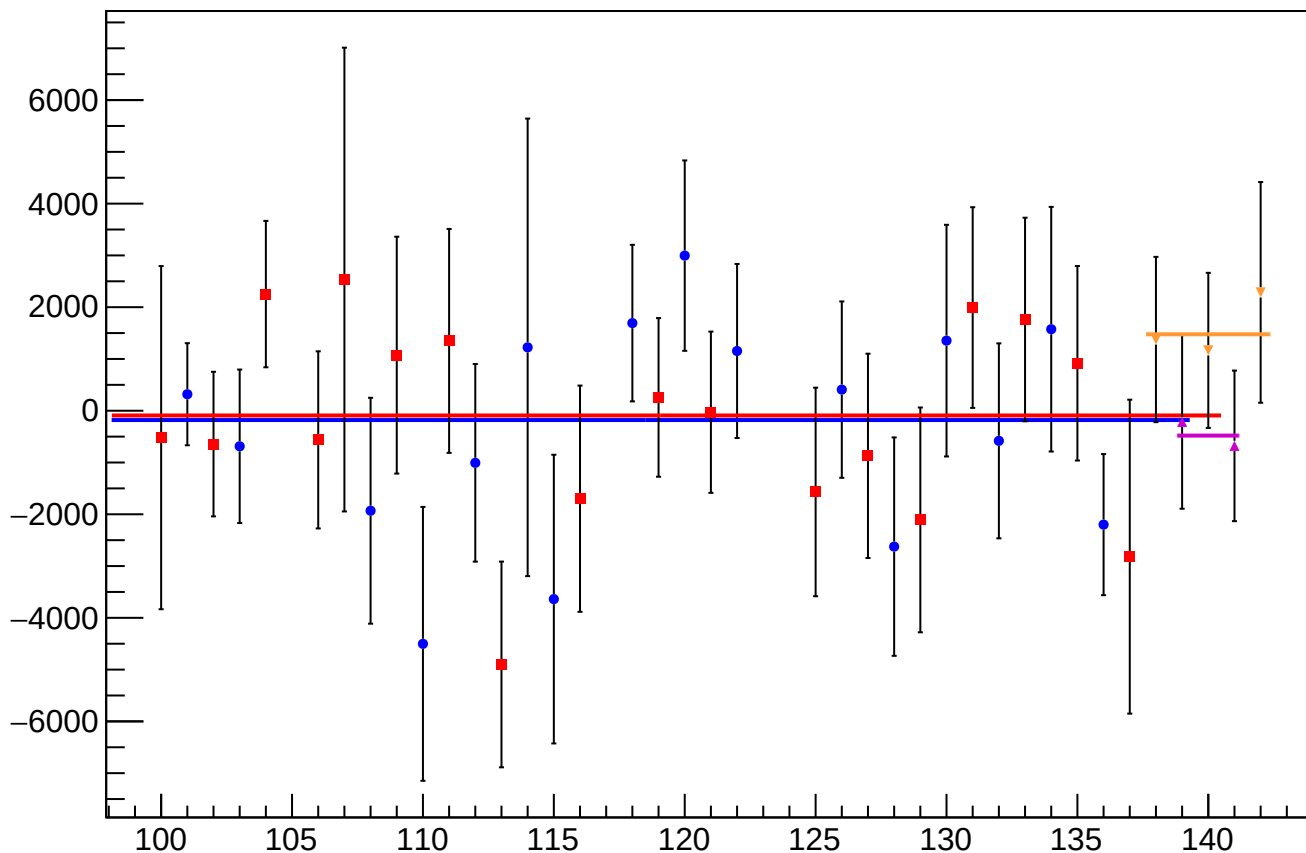
Right: 784.054 $\pm$ 0.145 χ^2/NDF : 19793.2/33

In: 783.025 $\pm$ 0.185 χ^2/NDF : 12558.8/17

Out: 787.131 $\pm$ 0.181 χ^2/NDF : 7397.8/20

All: 785.118 $\pm$ 0.129 χ^2/NDF : 20208.2/38

asym_us_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -179.929+/-440.772 χ^2/NDF : 15.4/15

Left Out: 1476.444+/-972.028 χ^2/NDF : 0.2/2

Right Out: -91.288+/-454.811 χ^2/NDF : 15.2/17

Left In: -480.146+/-1098.767 χ^2/NDF : 0.0/1

Left: 617.452+/-728.032 χ^2/NDF : 2.0/4

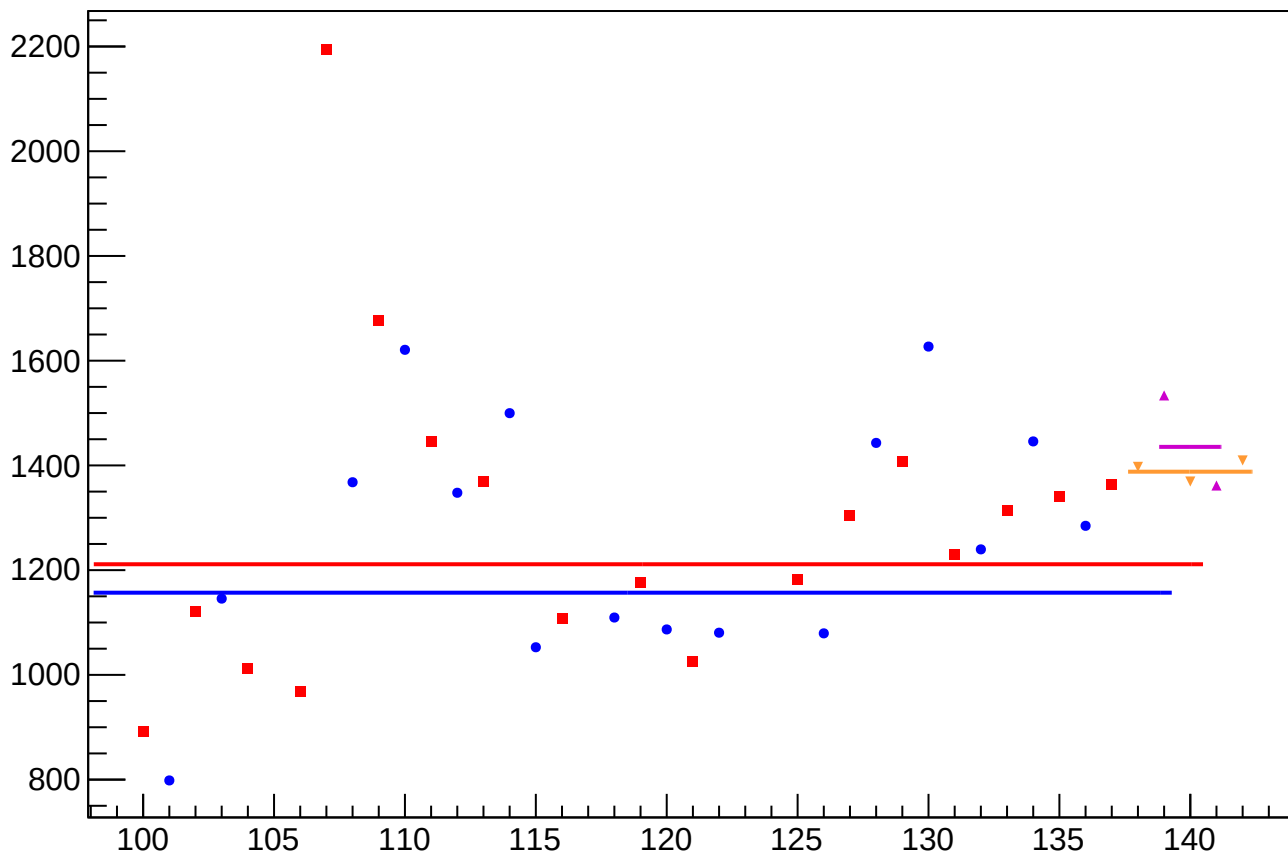
Right: -136.998+/-316.519 χ^2/NDF : 30.6/33

In: -221.544+/-409.084 χ^2/NDF : 15.5/17

Out: 190.289+/-411.947 χ^2/NDF : 17.5/20

All: -17.064+/-290.273 χ^2/NDF : 33.5/38

asym_us_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1156.948+/-0.312 χ^2/NDF : 569119.8/15

Left Out: 1388.025+/-0.687 χ^2/NDF :584.4/2

Right Out: 1211.264+/-0.322 χ^2/NDF : 397714.5/17

Left In: 1435.424+/-0.777 χ^2/NDF :12009.4/1

Left: 1408.834+/-0.515 χ^2/NDF : 14681.7/4

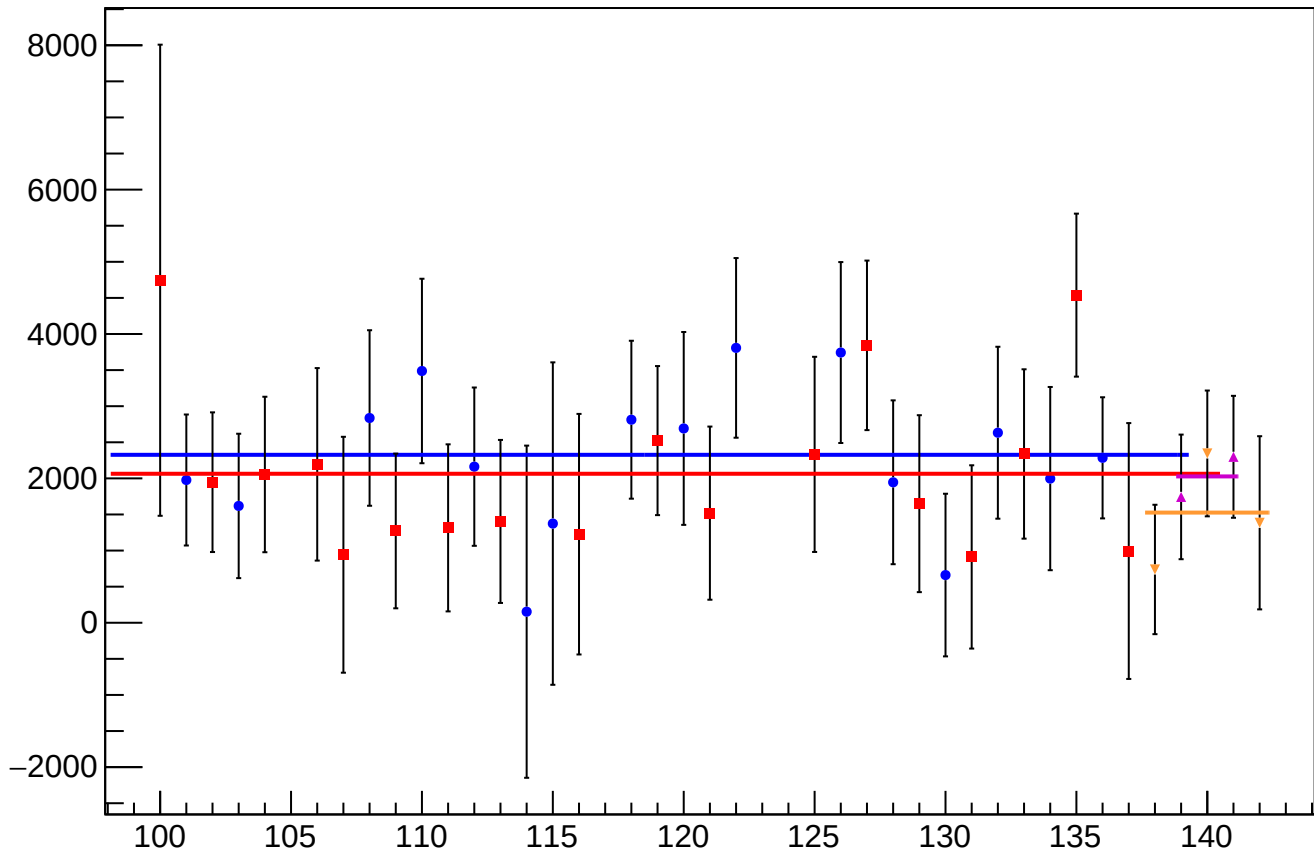
Right: 1183.255+/-0.224 χ^2/NDF : 981543.7/33

In: 1195.549+/-0.289 χ^2/NDF :691789.6/17

Out: 1243.012+/-0.291 χ^2/NDF :452557.3/20

All: 1219.115+/-0.205 χ^2/NDF : 1157713.9/38

dit_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2326.430+/-292.176 χ^2/NDF : 8.1/15

Left Out: 1526.131+/-554.106 χ^2/NDF : 1.7/2

Right Out: 2063.976+/-291.790 χ^2/NDF : 11.6/17

Left In: 2027.169+/-603.658 χ^2/NDF : 0.2/1

Left: 1755.245+/-408.208 χ^2/NDF : 2.3/4

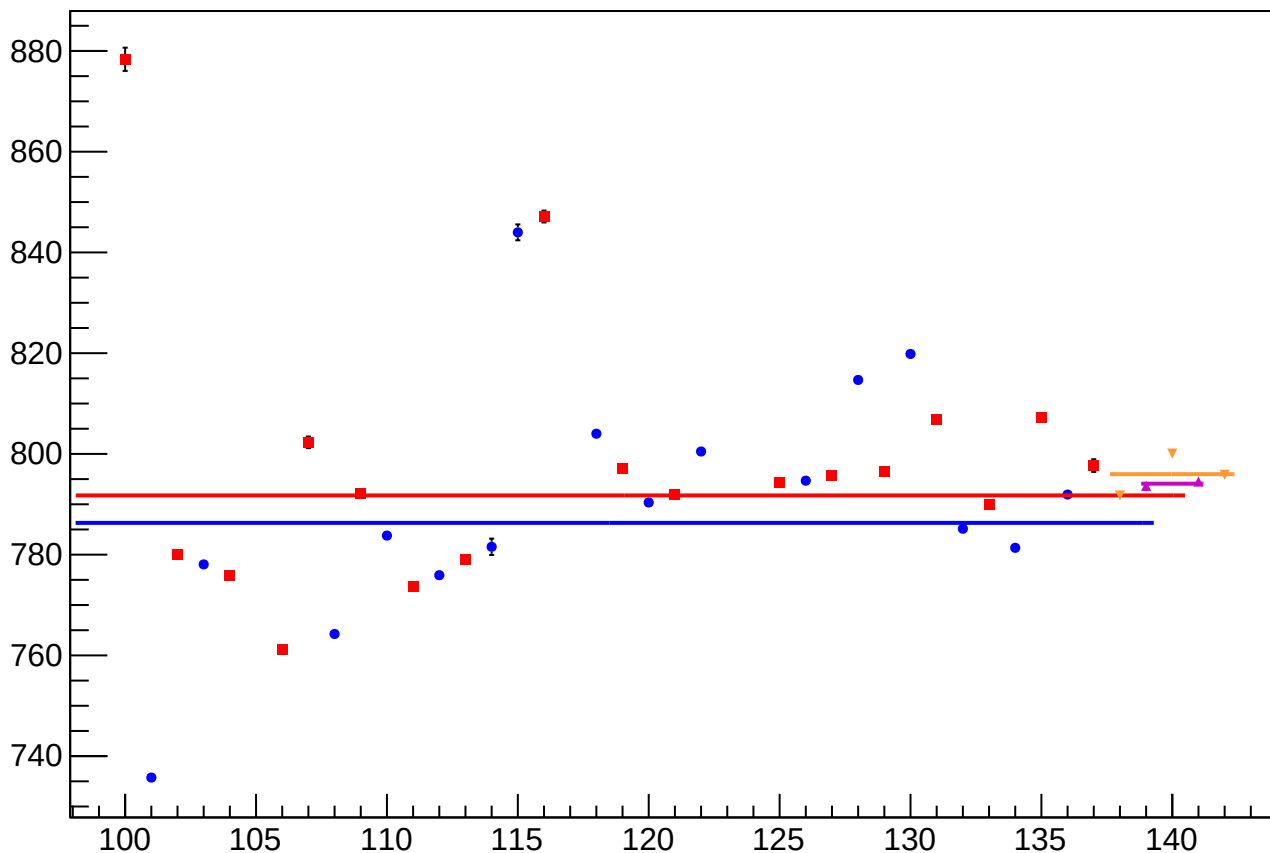
Right: 2195.030+/-206.463 χ^2/NDF : 20.2/33

In: 2269.630+/-262.990 χ^2/NDF : 8.6/17

Out: 1947.210+/-258.181 χ^2/NDF : 14.0/20

All: 2105.445+/-184.238 χ^2/NDF : 23.4/38

dit_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 786.309 $\pm$ 0.207 χ^2 /NDF: 12571.1/15

Left Out: 795.982 $\pm$ 0.392 χ^2 /NDF:88.4/2

Right Out: 791.756 $\pm$ 0.206 χ^2 /NDF: 7015.1/17

Left In: 794.090 $\pm$ 0.427 χ^2 /NDF:1.0/1

Left: 795.117 $\pm$ 0.289 χ^2 /NDF: 100.1/4

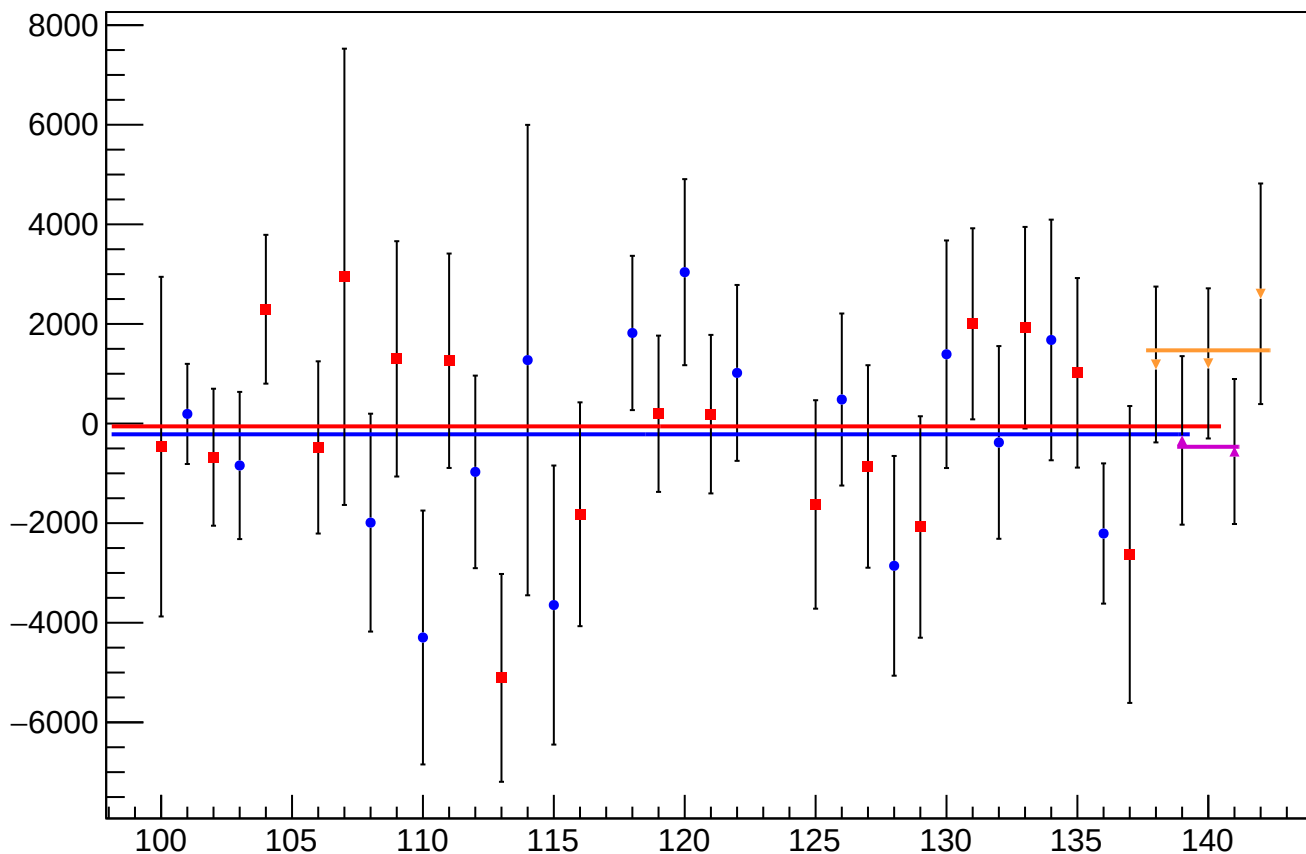
Right: 789.036 $\pm$ 0.146 χ^2 /NDF: 19934.2/33

In: 787.786 $\pm$ 0.186 χ^2 /NDF:12841.3/17

Out: 792.674 $\pm$ 0.183 χ^2 /NDF:7194.6/20

All: 790.275 $\pm$ 0.130 χ^2 /NDF: 20387.6/38

asym_us_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -216.184+/-449.537 χ^2/NDF : 15.3/15

Left Out: 1470.037+/-974.753 χ^2/NDF : 0.3/2

Right Out: -56.784+/-463.978 χ^2/NDF : 15.1/17

Left In: -466.712+/-1103.655 χ^2/NDF : 0.0/1

Left: 621.319+/-730.598 χ^2/NDF : 2.1/4

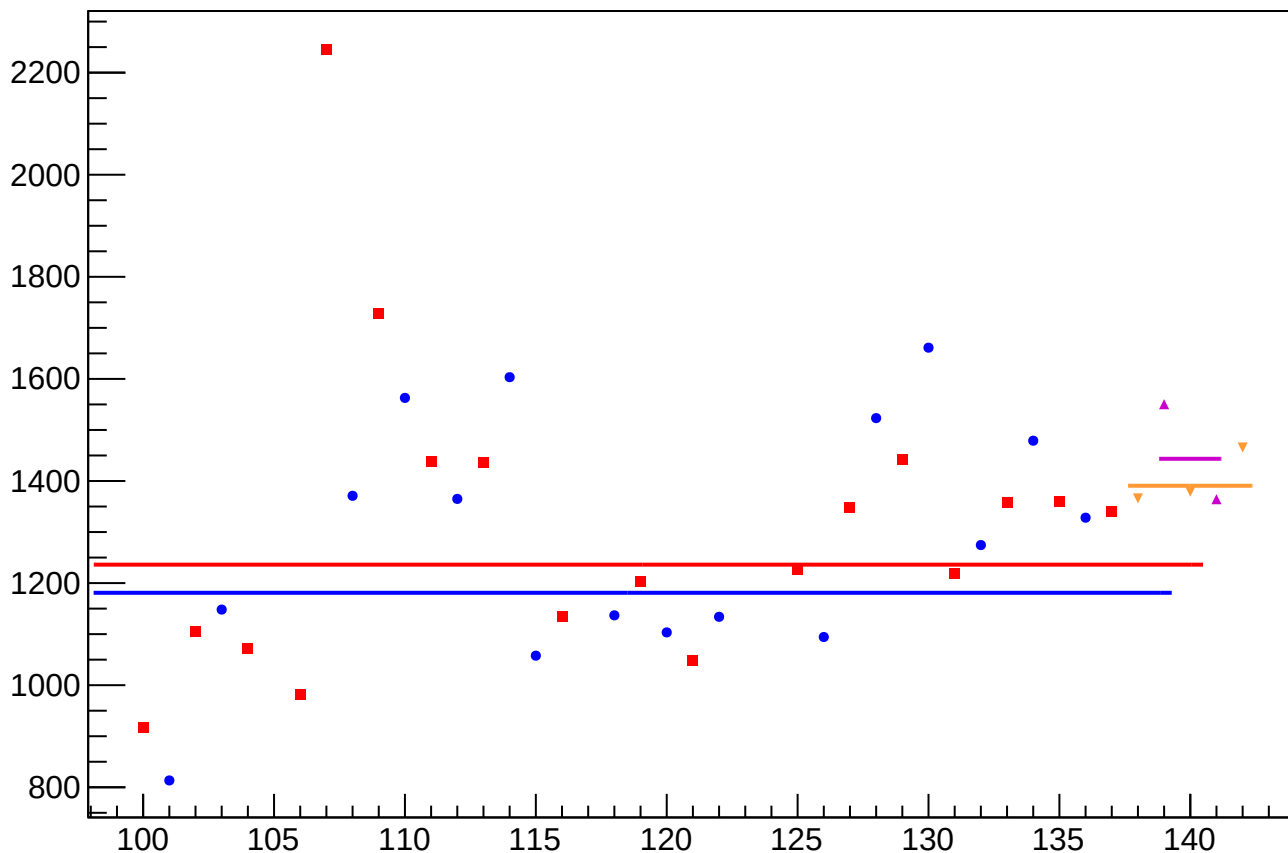
Right: -139.003+/-322.855 χ^2/NDF : 30.5/33

In: -251.834+/-416.326 χ^2/NDF : 15.3/17

Out: 225.250+/-418.939 χ^2/NDF : 17.5/20

All: -14.785+/-295.307 χ^2/NDF : 33.4/38

asym_us_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1180.998 $\pm$ 0.318 χ^2/NDF : 571107.8/15

Left Out: 1390.706 $\pm$ 0.689 χ^2/NDF : 2908.1/2

Right Out: 1236.134 $\pm$ 0.328 χ^2/NDF : 397242.2/17

Left In: 1443.500 $\pm$ 0.780 χ^2/NDF : 13896.1/1

Left: 1413.841 $\pm$ 0.517 χ^2/NDF : 19375.2/4

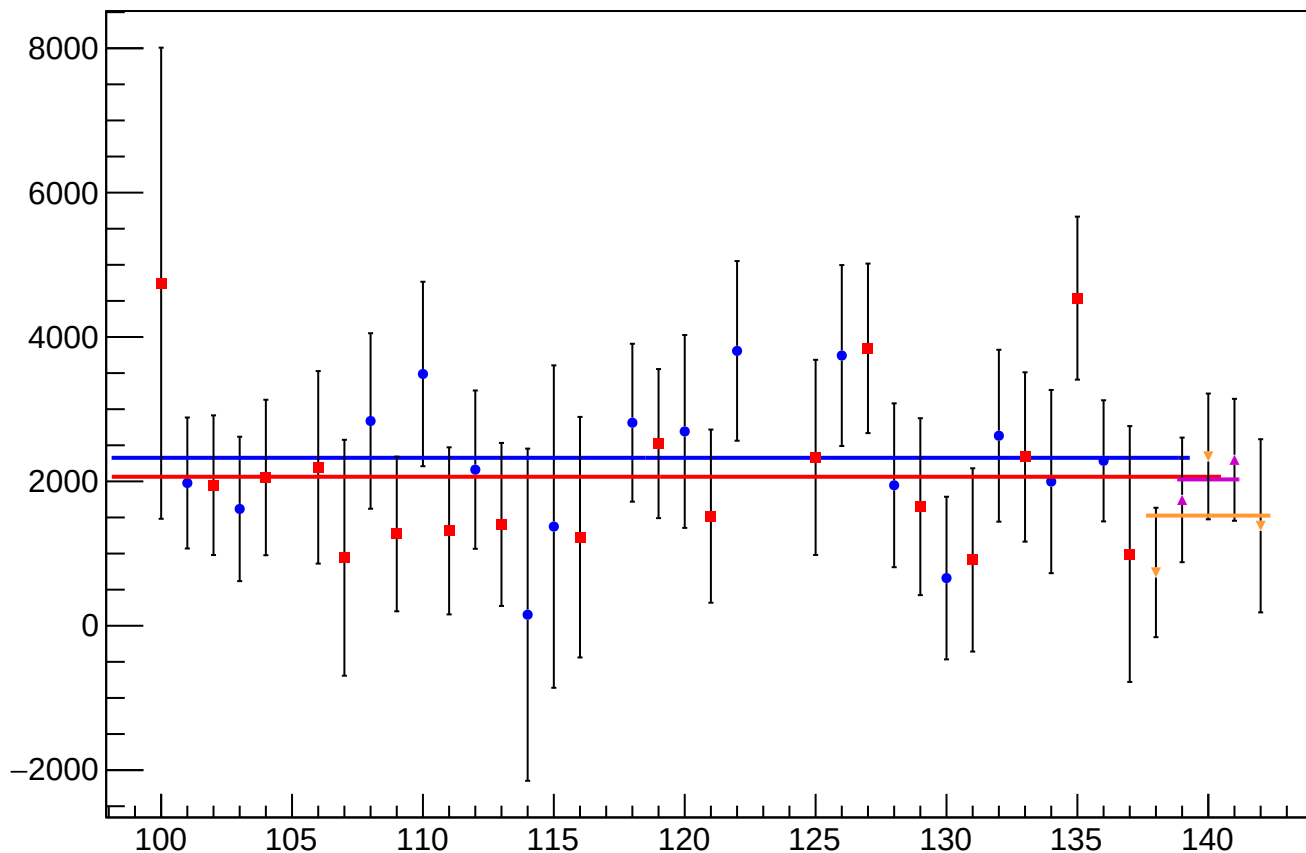
Right: 1207.695 $\pm$ 0.228 χ^2/NDF : 982917.9/33

In: 1218.351 $\pm$ 0.294 χ^2/NDF : 682047.1/17

Out: 1264.687 $\pm$ 0.296 χ^2/NDF : 441152.7/20

All: 1241.374 $\pm$ 0.209 χ^2/NDF : 1135509.0/38

eigen_dit_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2326.429 $\pm$ 292.176 χ^2 /NDF: 8.1/15

Left Out: 1526.134 $\pm$ 554.106 χ^2 /NDF:1.7/2

Right Out: 2063.975 $\pm$ 291.790 χ^2 /NDF: 11.6/17

Left In: 2027.167 $\pm$ 603.658 χ^2 /NDF:0.2/1

Left: 1755.246 $\pm$ 408.208 χ^2 /NDF: 2.3/4

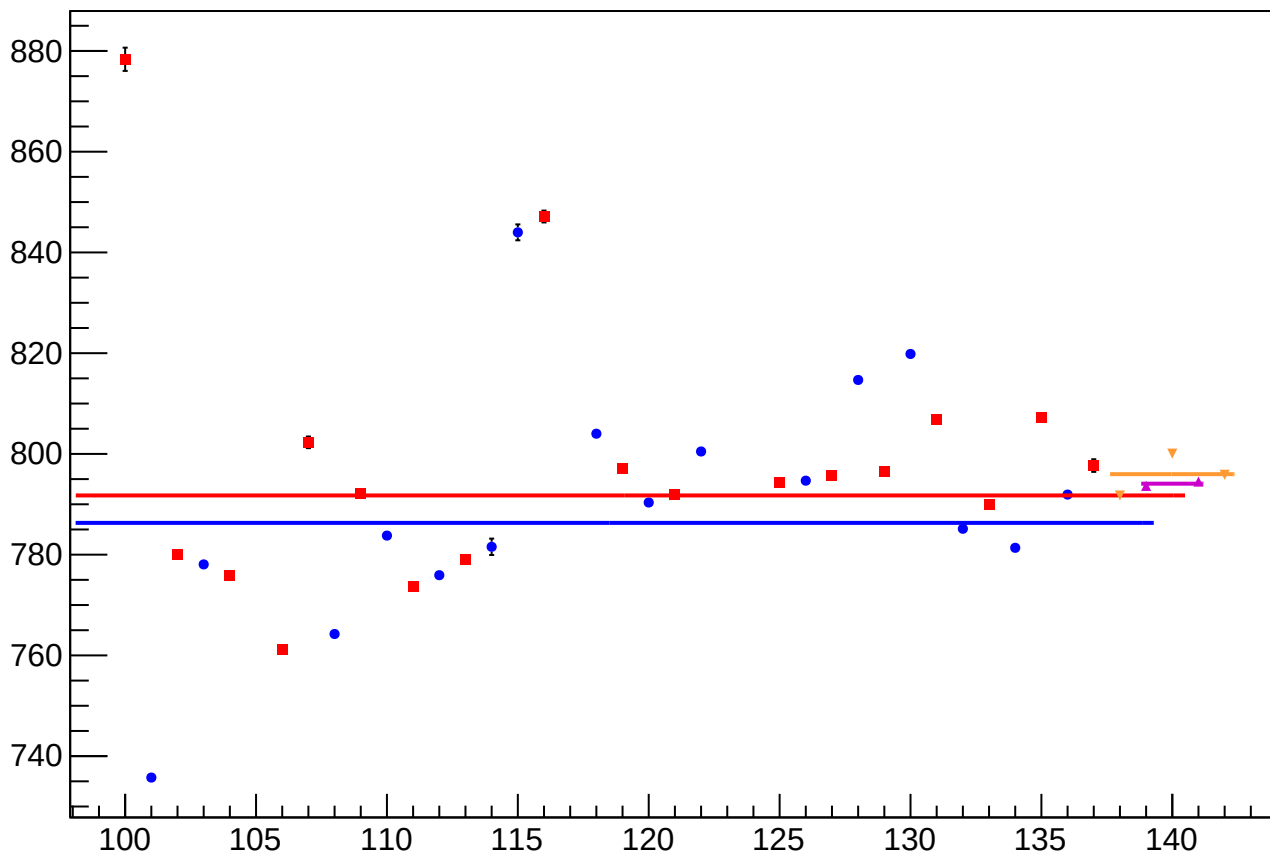
Right: 2195.029 $\pm$ 206.463 χ^2 /NDF: 20.2/33

In: 2269.629 $\pm$ 262.990 χ^2 /NDF:8.6/17

Out: 1947.209 $\pm$ 258.181 χ^2 /NDF:14.0/20

All: 2105.444 $\pm$ 184.238 χ^2 /NDF: 23.4/38

eigen_dit_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 786.309 ± 0.207 $\chi^2/\text{NDF}: 12571.0/15$

Left Out: 795.982 ± 0.392 $\chi^2/\text{NDF}: 88.4/2$

Right Out: 791.756 ± 0.206 $\chi^2/\text{NDF}: 7015.1/17$

Left In: 794.090 ± 0.427 $\chi^2/\text{NDF}: 1.0/1$

Left: 795.117 ± 0.289 $\chi^2/\text{NDF}: 100.1/4$

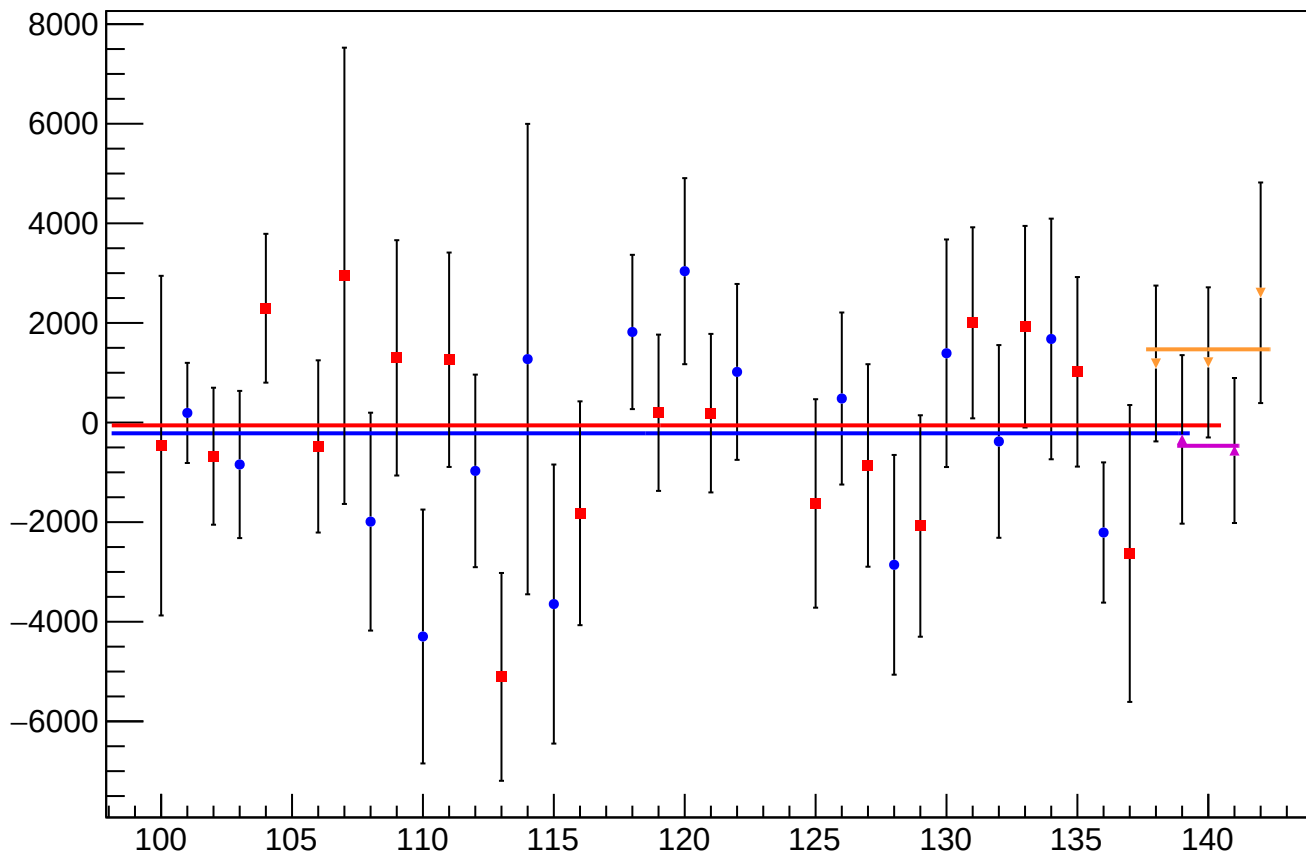
Right: 789.036 ± 0.146 $\chi^2/\text{NDF}: 19934.1/33$

In: 787.786 ± 0.186 $\chi^2/\text{NDF}: 12841.3/17$

Out: 792.673 ± 0.183 $\chi^2/\text{NDF}: 7194.6/20$

All: 790.275 ± 0.130 $\chi^2/\text{NDF}: 20387.6/38$

asym_us_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -216.183+/-449.536 χ^2/NDF : 15.3/15

Left Out: 1470.040+/-974.755 χ^2/NDF : 0.3/2

Right Out: -56.784+/-463.977 χ^2/NDF : 15.1/17

Left In: -466.714+/-1103.658 χ^2/NDF : 0.0/1

Left: 621.320+/-730.600 χ^2/NDF : 2.1/4

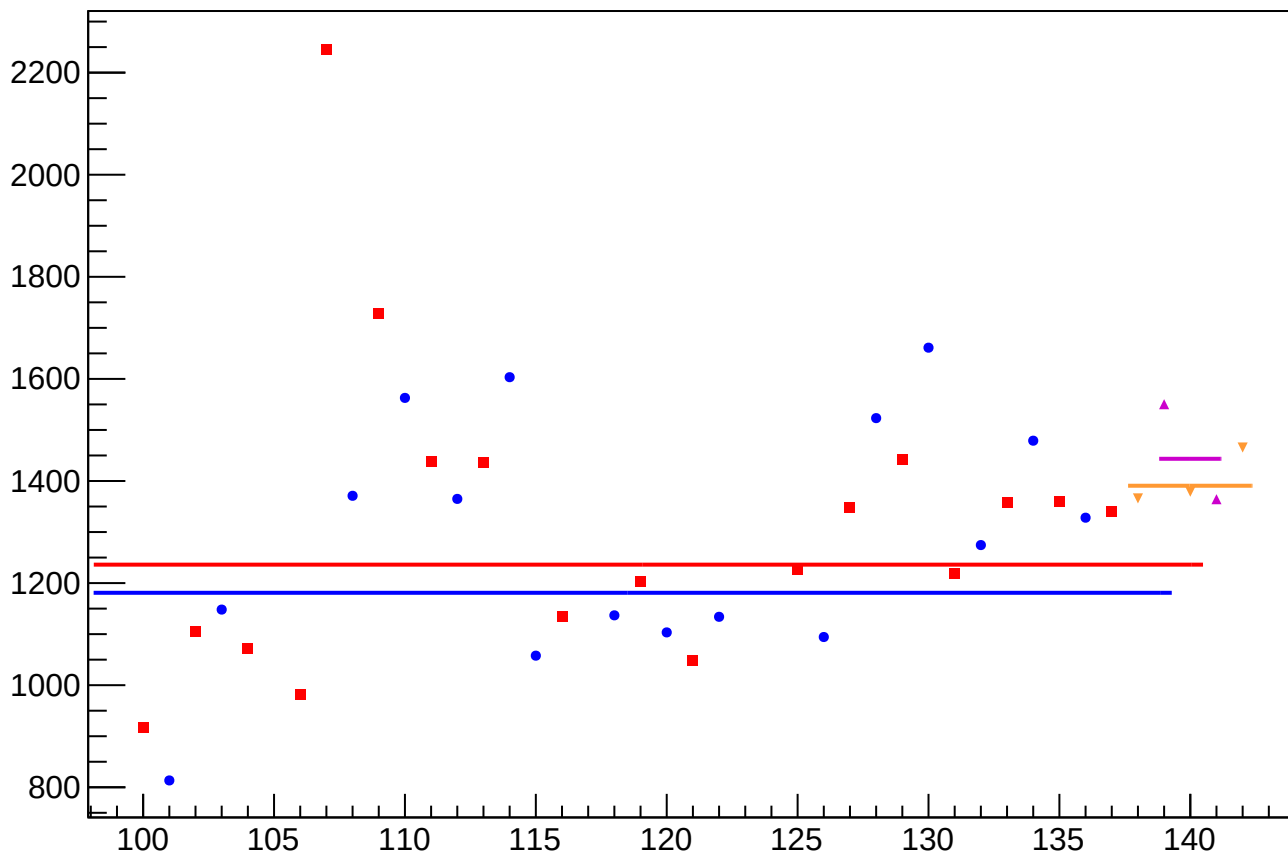
Right: -139.003+/-322.855 χ^2/NDF : 30.5/33

In: -251.833+/-416.325 χ^2/NDF : 15.3/17

Out: 225.249+/-418.939 χ^2/NDF : 17.5/20

All: -14.785+/-295.306 χ^2/NDF : 33.4/38

asym_us_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1180.995+/-0.318 χ^2/NDF : 571105.7/15

Left Out: 1390.709+/-0.689 χ^2/NDF : 2908.1/2

Right Out: 1236.131+/-0.328 χ^2/NDF : 397240.7/17

Left In: 1443.503+/-0.780 χ^2/NDF : 13896.3/1

Left: 1413.844+/-0.517 χ^2/NDF : 19375.3/4

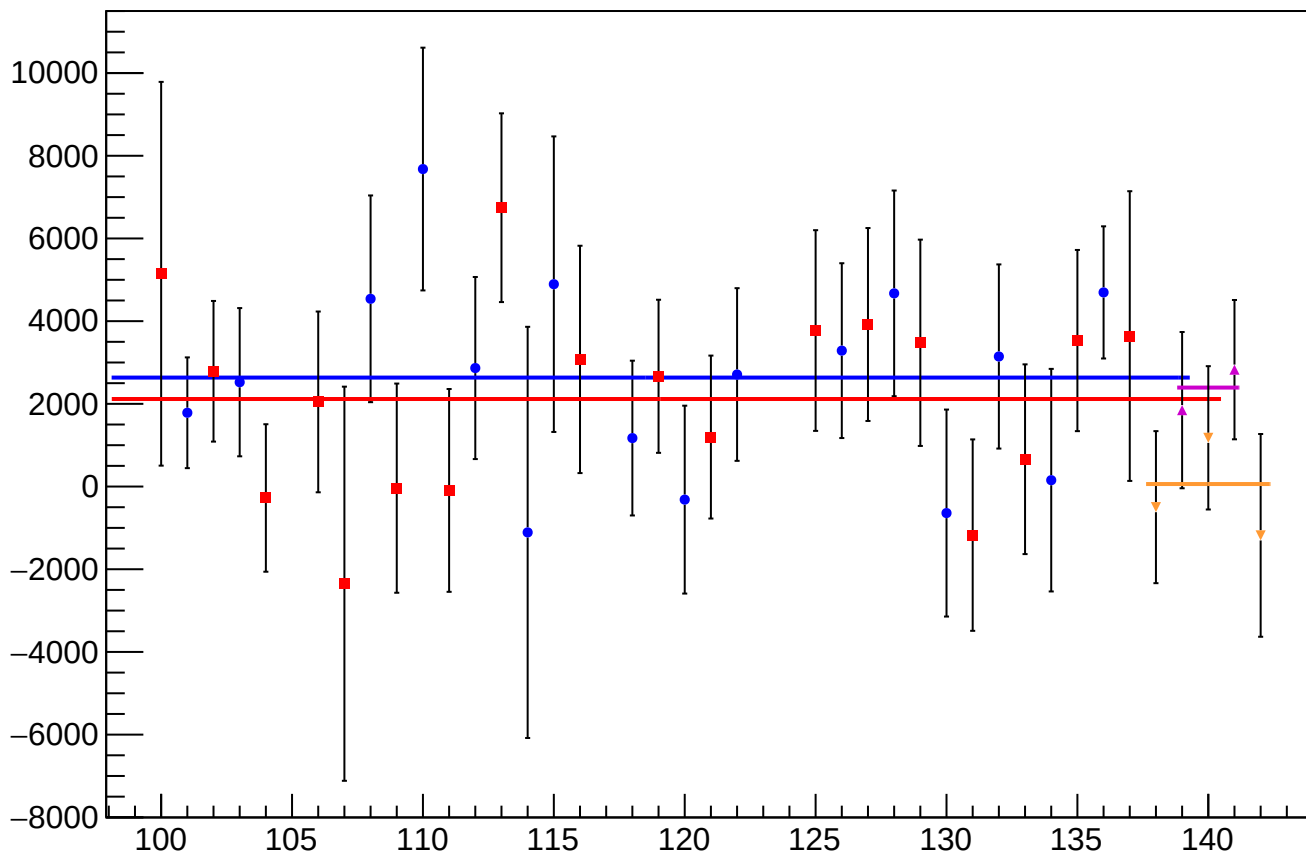
Right: 1207.692+/-0.228 χ^2/NDF : 982914.1/33

In: 1218.349+/-0.294 χ^2/NDF : 682049.3/17

Out: 1264.684+/-0.296 χ^2/NDF : 441154.5/20

All: 1241.372+/-0.209 χ^2/NDF : 1135513.0/38

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2635.397 $\pm$ 538.034 χ^2 /NDF: 12.3/15

Left Out: 60.649 $\pm$ 1121.520 χ^2 /NDF: 0.8/2

Right Out: 2117.162 $\pm$ 547.483 χ^2 /NDF: 13.7/17

Left In: 2393.398 $\pm$ 1257.408 χ^2 /NDF: 0.1/1

Left: 1094.207 $\pm$ 836.969 χ^2 /NDF: 2.8/4

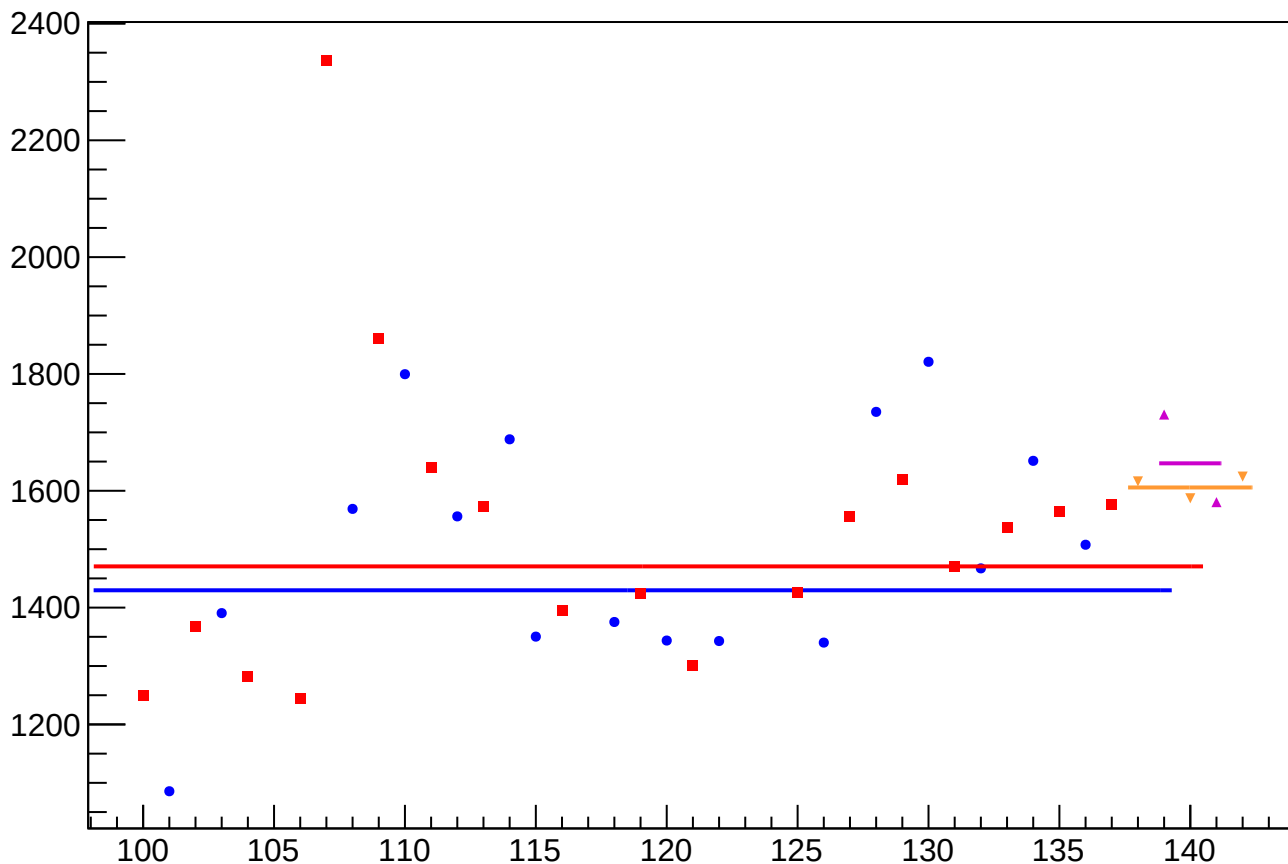
Right: 2380.790 $\pm$ 383.745 χ^2 /NDF: 26.4/33

In: 2597.946 $\pm$ 494.653 χ^2 /NDF: 12.4/17

Out: 1721.401 $\pm$ 491.991 χ^2 /NDF: 17.2/20

All: 2157.309 $\pm$ 348.828 χ^2 /NDF: 31.2/38

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1429.654+/-0.380 χ^2/NDF : 293388.5/15

Left Out: 1605.673+/-0.793 χ^2/NDF : 407.5/2

Right Out: 1470.565+/-0.387 χ^2/NDF : 218067.5/17

Left In: 1646.995+/-0.889 χ^2/NDF : 7018.9/1

Left: 1623.981+/-0.592 χ^2/NDF : 8629.3/4

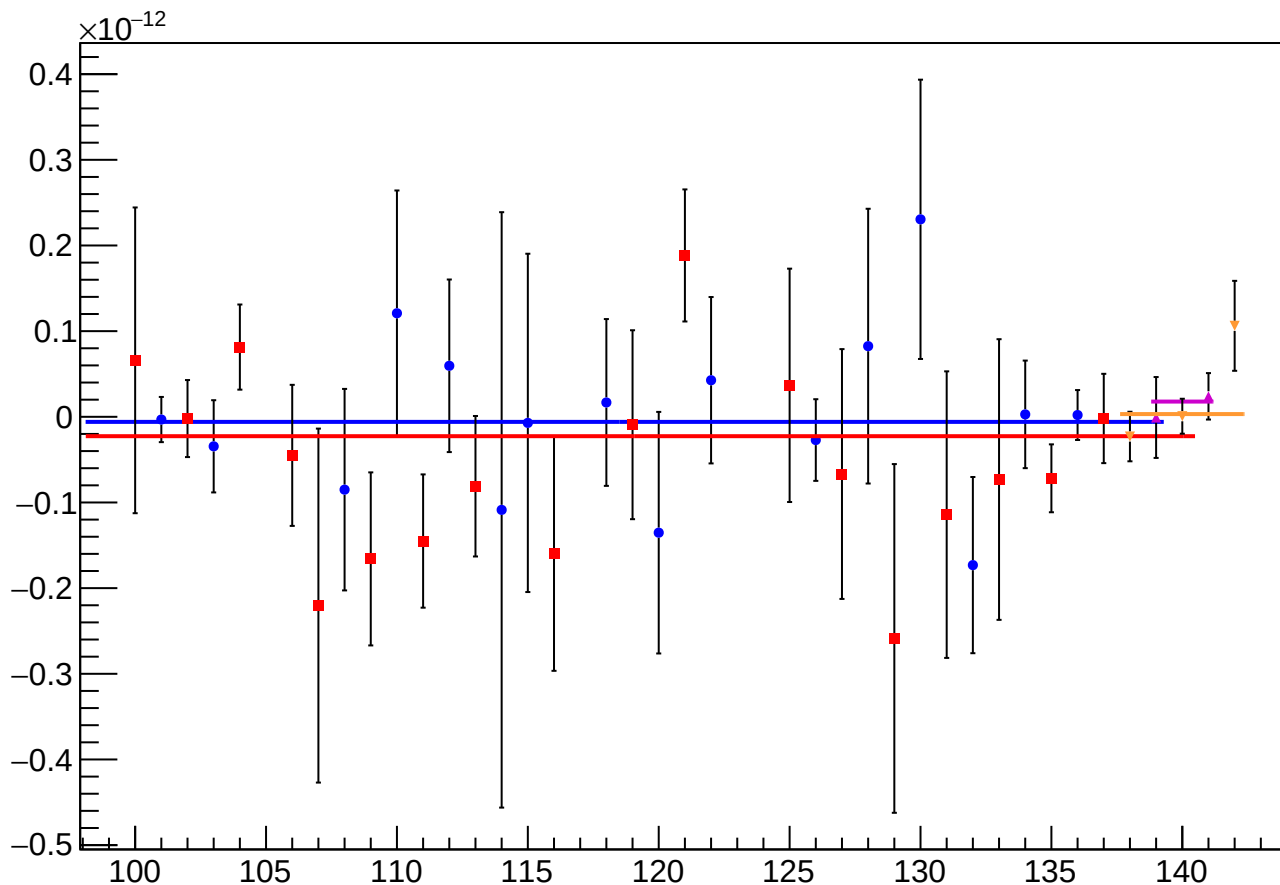
Right: 1449.753+/-0.271 χ^2/NDF : 517137.1/33

In: 1463.289+/-0.350 χ^2/NDF : 350913.2/17

Out: 1496.566+/-0.348 χ^2/NDF : 241914.7/20

All: 1480.017+/-0.247 χ^2/NDF : 597378.0/38

asym_us_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 8.5/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 4.7/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 23.1/17

Left In: 0.000 ± 0.000 χ^2/NDF : 0.2/1

Left: 0.000 ± 0.000 χ^2/NDF : 5.2/4

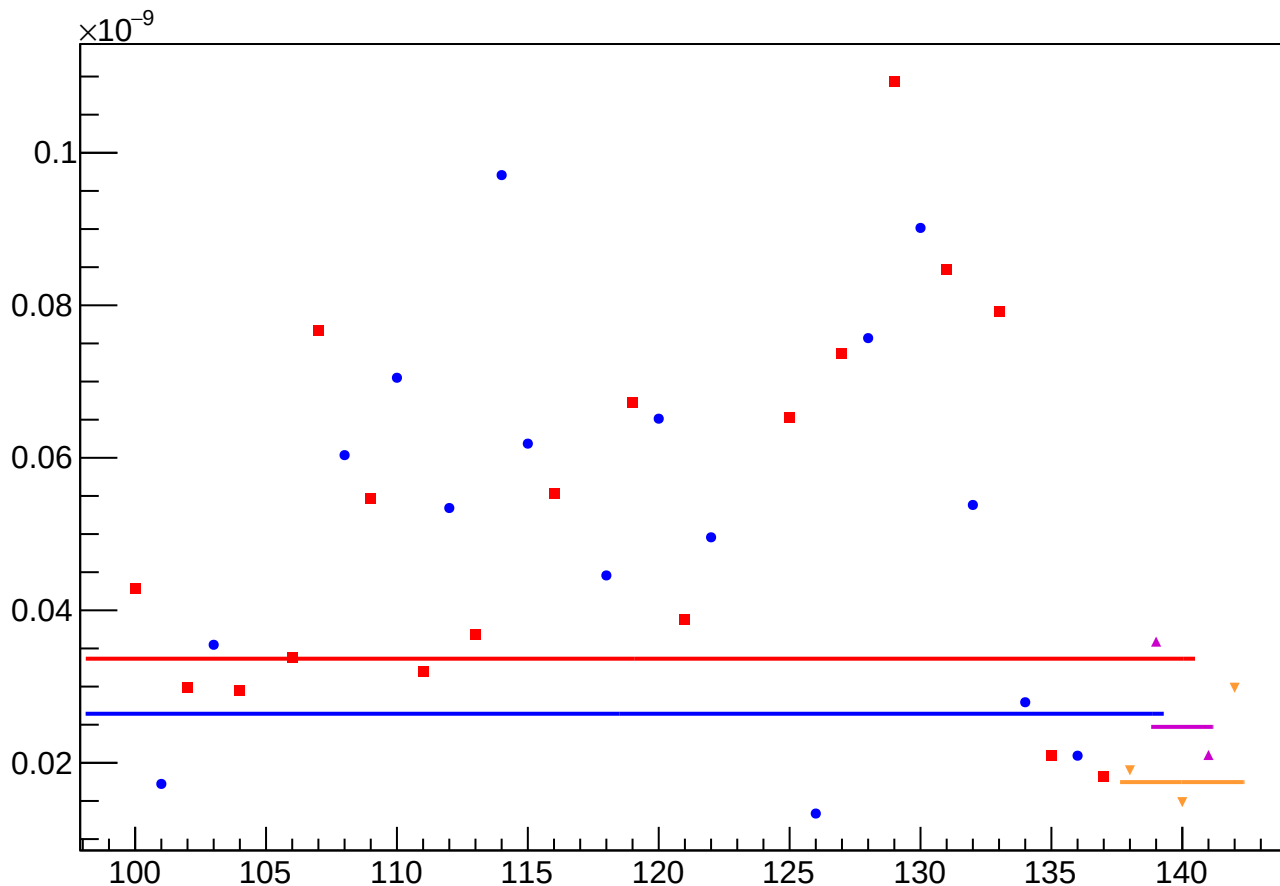
Right: -0.000 ± 0.000 χ^2/NDF : 32.1/33

In: 0.000 ± 0.000 χ^2/NDF : 9.5/17

Out: -0.000 ± 0.000 χ^2/NDF : 28.9/20

All: -0.000 ± 0.000 χ^2/NDF : 38.6/38

asym_us_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2138464.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :150105.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1711887.8/17

Left In: 0.000+/-0.000 χ^2/NDF :149155.1/1

Left: 0.000+/-0.000 χ^2/NDF : 429534.8/4

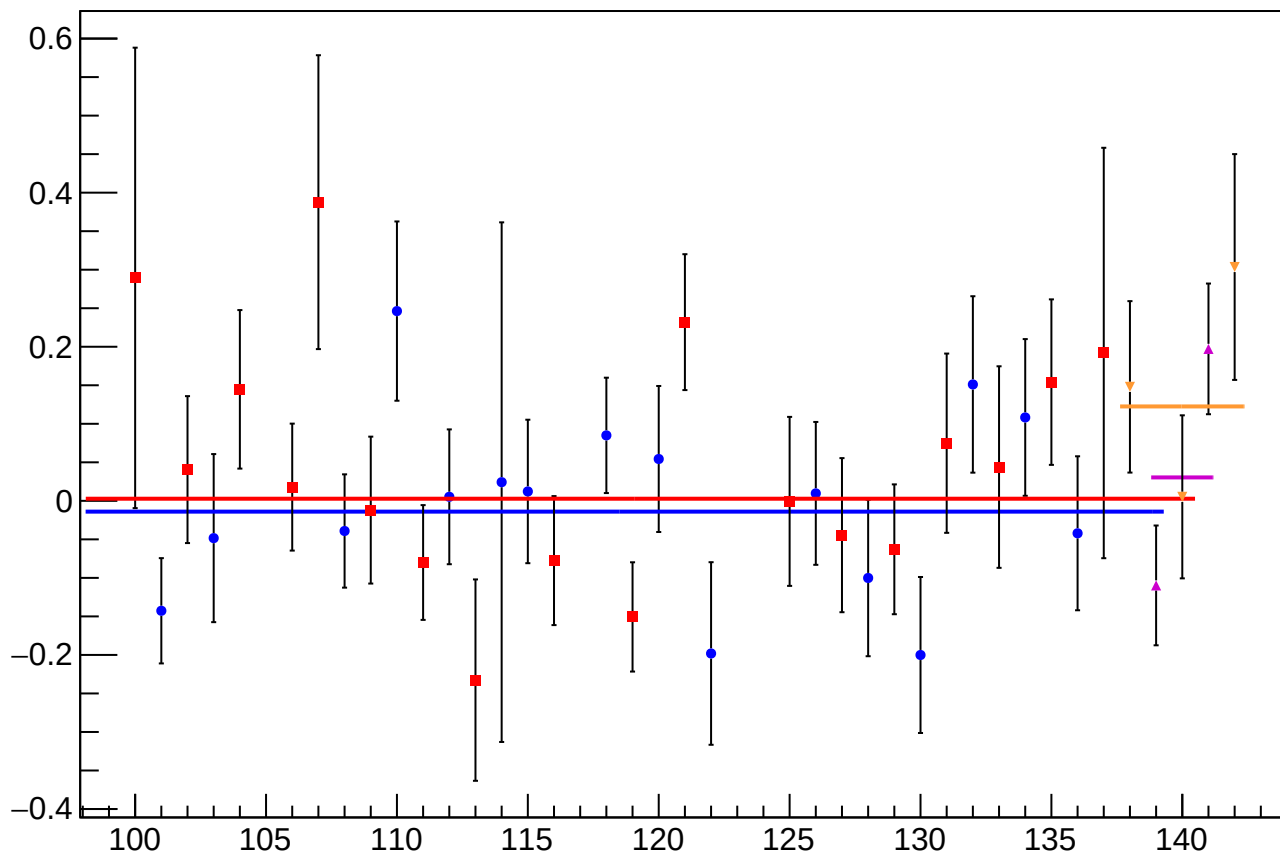
Right: 0.000+/-0.000 χ^2/NDF : 4035968.6/33

In: 0.000+/-0.000 χ^2/NDF :2295193.4/17

Out: 0.000+/-0.000 χ^2/NDF :2759837.4/20

All: 0.000+/-0.000 χ^2/NDF : 5068947.5/38

asym_us_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.014 ± 0.024 $\chi^2/\text{NDF}: 21.4/15$

Left Out: 0.123 ± 0.068 $\chi^2/\text{NDF}: 2.8/2$

Right Out: 0.003 ± 0.024 $\chi^2/\text{NDF}: 27.8/17$

Left In: 0.030 ± 0.057 $\chi^2/\text{NDF}: 7.1/1$

Left: 0.069 ± 0.044 $\chi^2/\text{NDF}: 11.0/4$

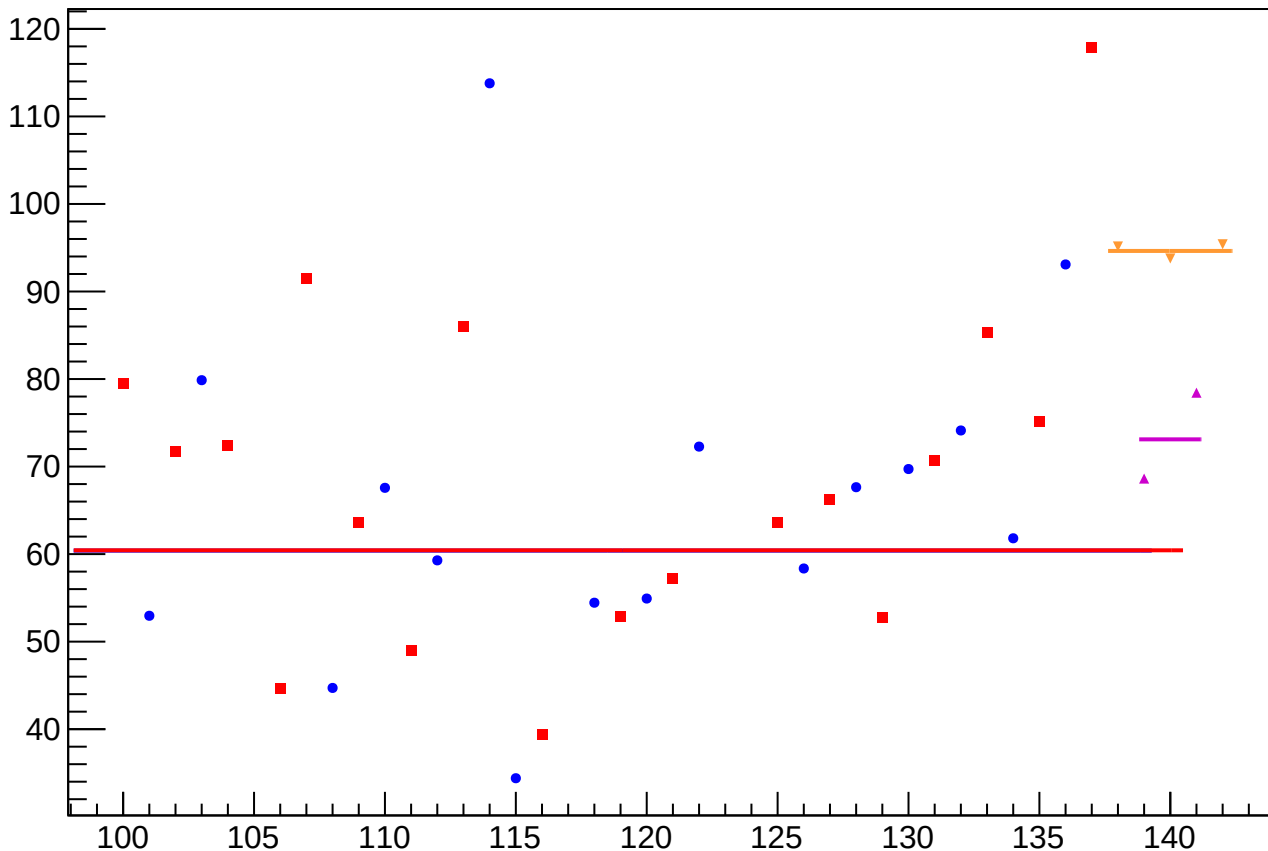
Right: -0.006 ± 0.017 $\chi^2/\text{NDF}: 49.4/33$

In: -0.007 ± 0.022 $\chi^2/\text{NDF}: 29.0/17$

Out: 0.016 ± 0.022 $\chi^2/\text{NDF}: 33.3/20$

All: 0.004 ± 0.016 $\chi^2/\text{NDF}: 62.9/38$

asym_us_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.399+/-0.017 χ^2/NDF : 703157.1/15

Left Out: 94.634+/-0.048 χ^2/NDF : 227.6/2

Right Out: 60.434+/-0.017 χ^2/NDF : 711093.4/17

Left In: 73.109+/-0.041 χ^2/NDF : 14541.4/1

Left: 82.059+/-0.031 χ^2/NDF : 132063.8/4

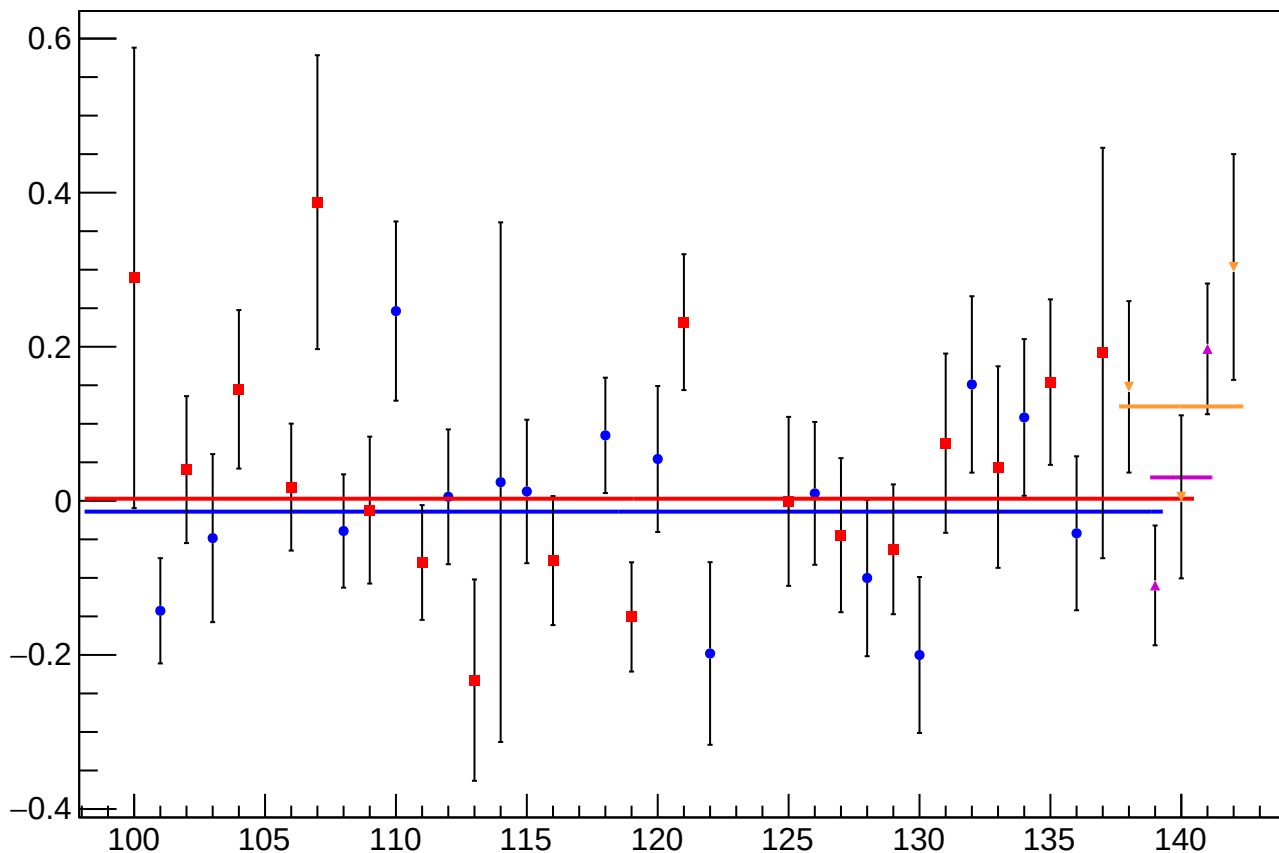
Right: 60.417+/-0.012 χ^2/NDF : 1414252.6/33

In: 62.277+/-0.016 χ^2/NDF : 801531.0/17

Out: 64.171+/-0.016 χ^2/NDF : 1162786.3/20

All: 63.206+/-0.011 χ^2/NDF : 1971567.6/38

asym_us_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.014 ± 0.024 χ^2/NDF : 21.4/15

Left Out: 0.123 ± 0.068 χ^2/NDF : 2.8/2

Right Out: 0.003 ± 0.024 χ^2/NDF : 27.8/17

Left In: 0.030 ± 0.057 χ^2/NDF : 7.1/1

Left: 0.069 ± 0.044 χ^2/NDF : 11.0/4

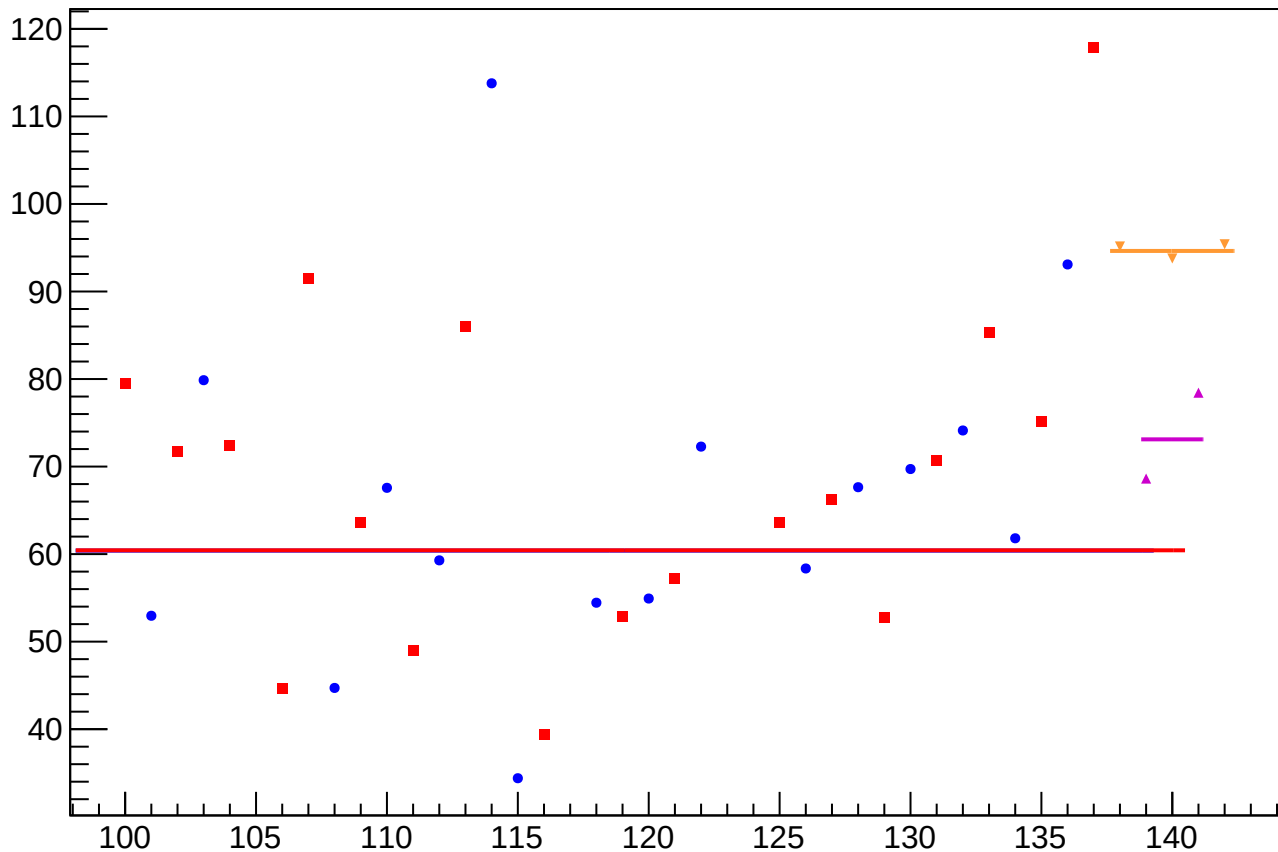
Right: -0.006 ± 0.017 χ^2/NDF : 49.4/33

In: -0.007 ± 0.022 χ^2/NDF : 29.0/17

Out: 0.016 ± 0.022 χ^2/NDF : 33.3/20

All: 0.004 ± 0.016 χ^2/NDF : 62.9/38

asym_us_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.399+/-0.017 χ^2/NDF : 703157.1/15

Left Out: 94.634+/-0.048 χ^2/NDF : 227.6/2

Right Out: 60.434+/-0.017 χ^2/NDF : 711093.4/17

Left In: 73.109+/-0.041 χ^2/NDF : 14541.4/1

Left: 82.059+/-0.031 χ^2/NDF : 132063.8/4

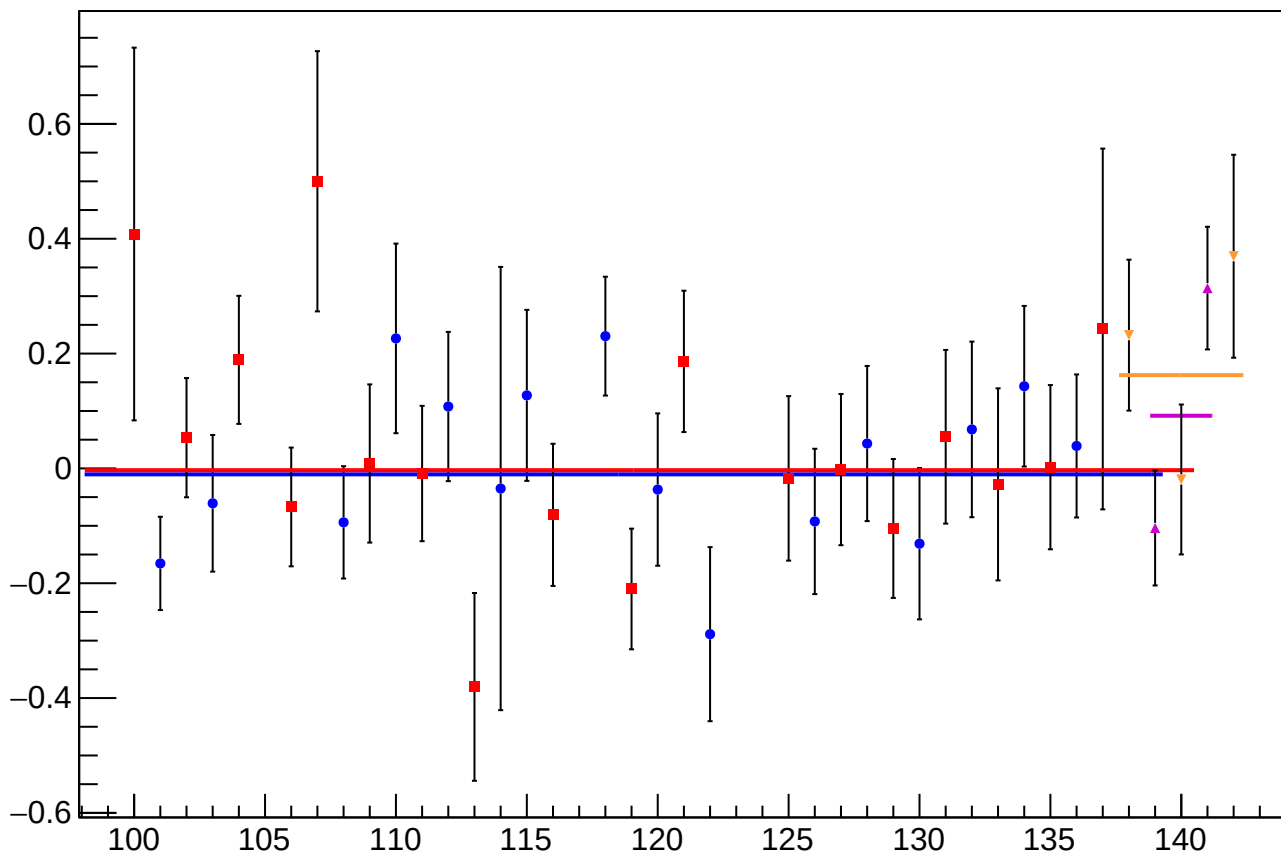
Right: 60.417+/-0.012 χ^2/NDF : 1414252.6/33

In: 62.277+/-0.016 χ^2/NDF : 801531.0/17

Out: 64.171+/-0.016 χ^2/NDF : 1162786.3/20

All: 63.206+/-0.011 χ^2/NDF : 1971567.6/38

asym_us_avg_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.032 χ^2/NDF : 20.2/15

Left Out: 0.162 ± 0.082 χ^2/NDF : 3.6/2

Right Out: -0.003 ± 0.032 χ^2/NDF : 23.7/17

Left In: 0.092 ± 0.073 χ^2/NDF : 8.1/1

Left: 0.123 ± 0.055 χ^2/NDF : 12.1/4

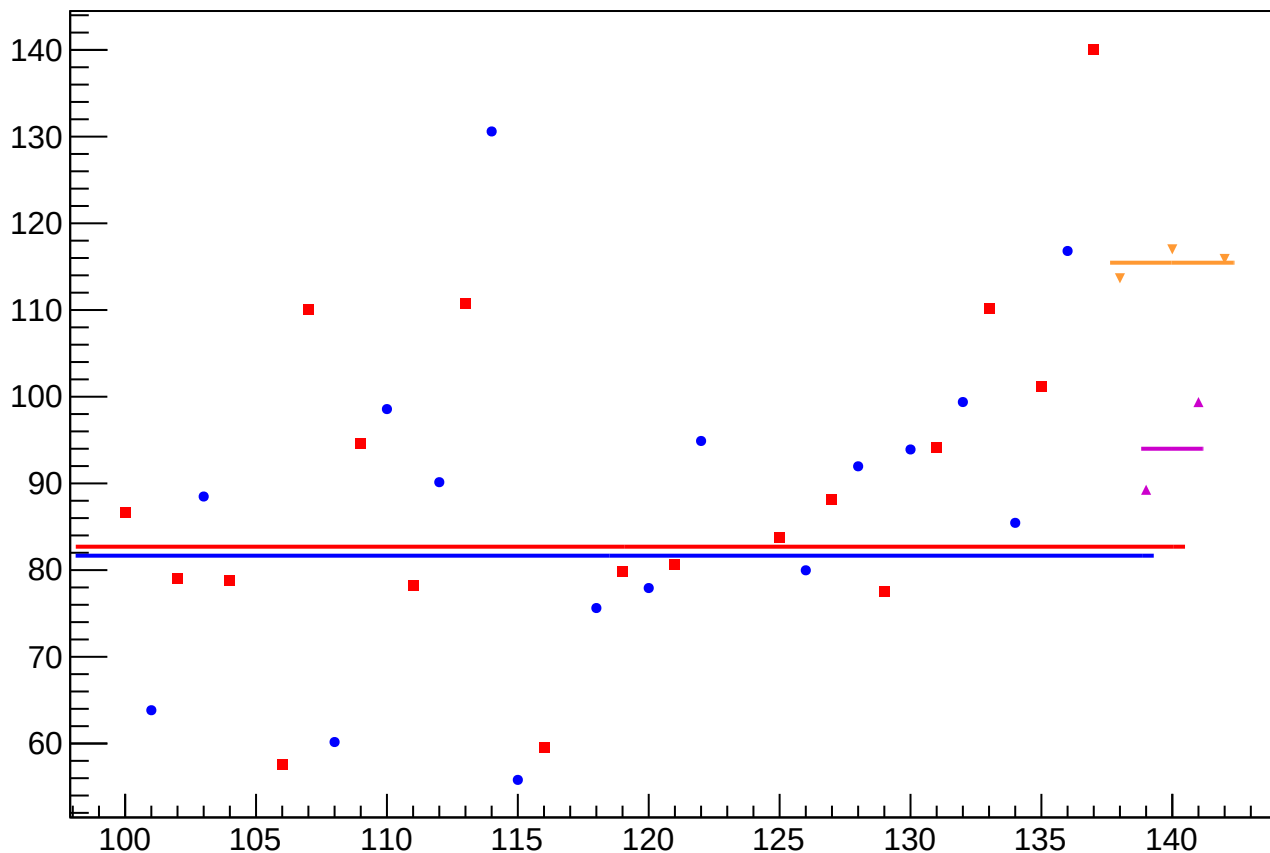
Right: -0.007 ± 0.022 χ^2/NDF : 43.8/33

In: 0.006 ± 0.029 χ^2/NDF : 29.9/17

Out: 0.018 ± 0.030 χ^2/NDF : 30.8/20

All: 0.012 ± 0.021 χ^2/NDF : 60.8/38

asym_us_avg_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 81.664+/-0.022 χ^2/NDF : 561848.8/15

Left Out: 115.458+/-0.058 χ^2/NDF : 664.7/2

Right Out: 82.701+/-0.022 χ^2/NDF : 473065.7/17

Left In: 94.000+/-0.052 χ^2/NDF : 9539.8/1

Left: 103.491+/-0.039 χ^2/NDF : 86513.2/4

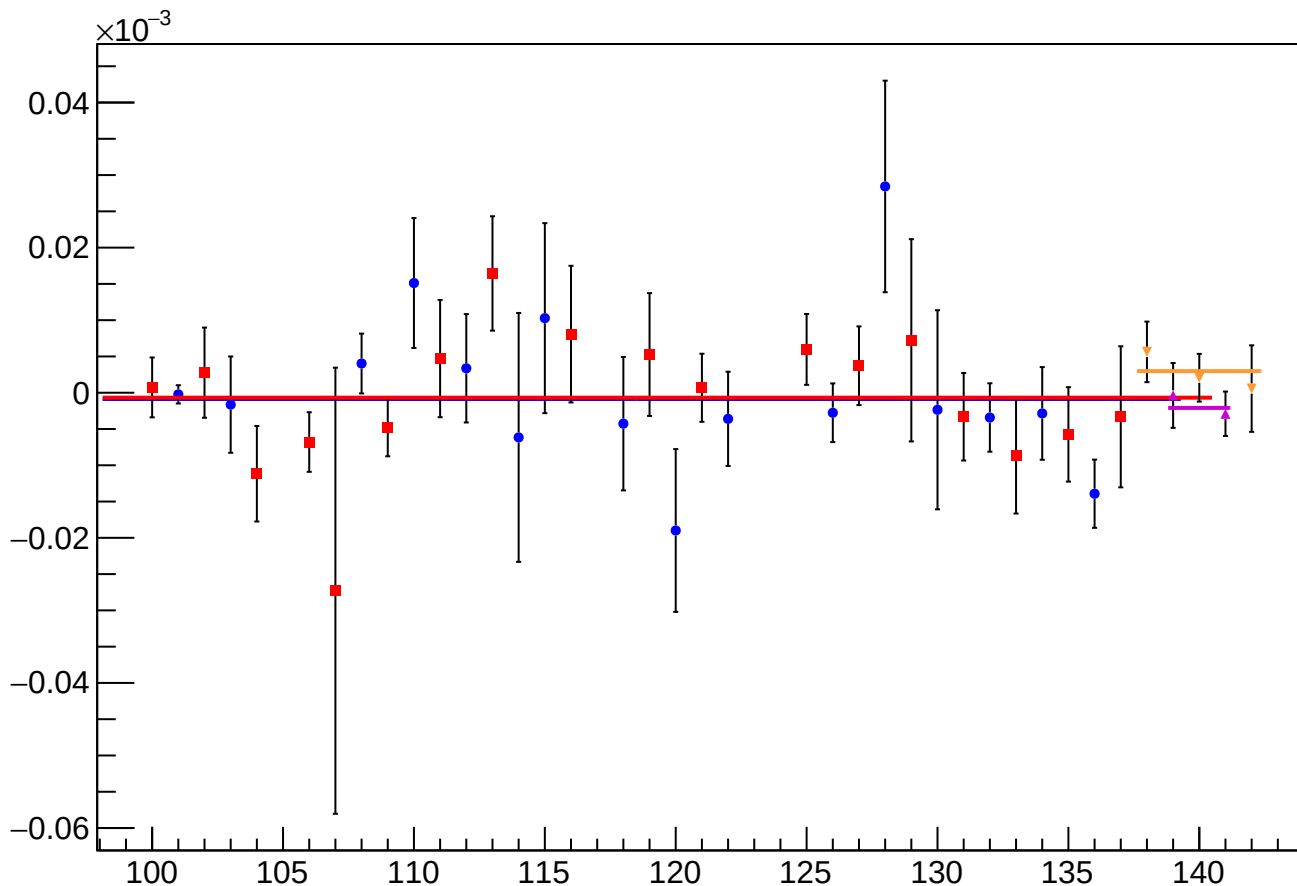
Right: 82.180+/-0.016 χ^2/NDF : 1035987.5/33

In: 83.608+/-0.021 χ^2/NDF : 619413.5/17

Out: 86.966+/-0.021 χ^2/NDF : 751079.7/20

All: 85.253+/-0.015 χ^2/NDF : 1383622.8/38

asym_us_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 21.3/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.6/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 18.3/17

Left In: -0.000 ± 0.000 χ^2/NDF : 0.2/1

Left: 0.000 ± 0.000 χ^2/NDF : 3.0/4

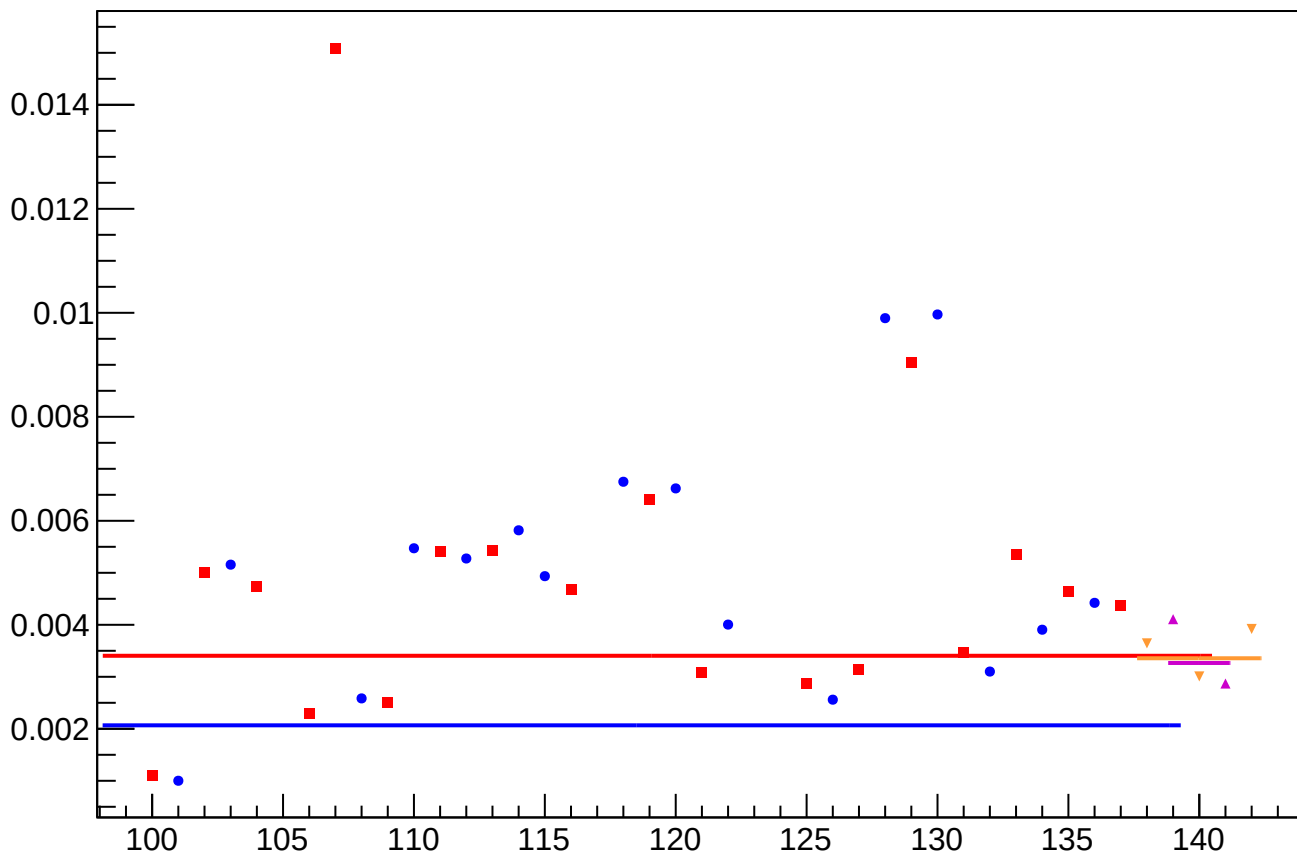
Right: -0.000 ± 0.000 χ^2/NDF : 39.7/33

In: -0.000 ± 0.000 χ^2/NDF : 21.7/17

Out: 0.000 ± 0.000 χ^2/NDF : 20.7/20

All: -0.000 ± 0.000 χ^2/NDF : 43.2/38

asym_us_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5813338.1/15

Left Out: 0.003+/-0.000 χ^2/NDF :49877.7/2

Right Out: 0.003+/-0.000 χ^2/NDF : 2491305.2/17

Left In: 0.003+/-0.000 χ^2/NDF :104424.8/1

Left: 0.003+/-0.000 χ^2/NDF : 155675.7/4

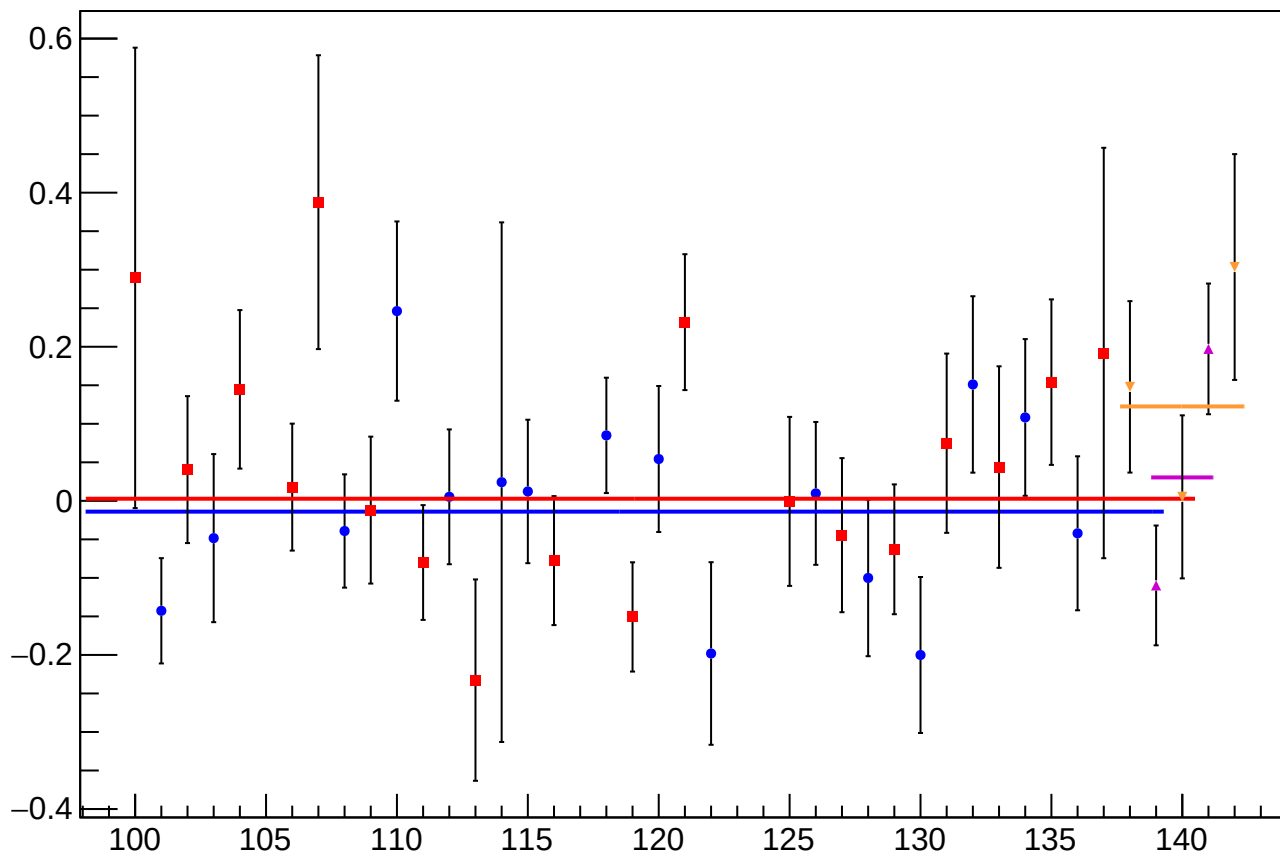
Right: 0.003+/-0.000 χ^2/NDF : 9479134.4/33

In: 0.002+/-0.000 χ^2/NDF :6306580.3/17

Out: 0.003+/-0.000 χ^2/NDF :2541782.1/20

All: 0.003+/-0.000 χ^2/NDF : 9984878.0/38

asym_us_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.014 ± 0.024 $\chi^2/\text{NDF}: 21.4/15$

Left Out: 0.123 ± 0.068 $\chi^2/\text{NDF}: 2.8/2$

Right Out: 0.003 ± 0.024 $\chi^2/\text{NDF}: 27.8/17$

Left In: 0.030 ± 0.057 $\chi^2/\text{NDF}: 7.1/1$

Left: 0.069 ± 0.044 $\chi^2/\text{NDF}: 11.0/4$

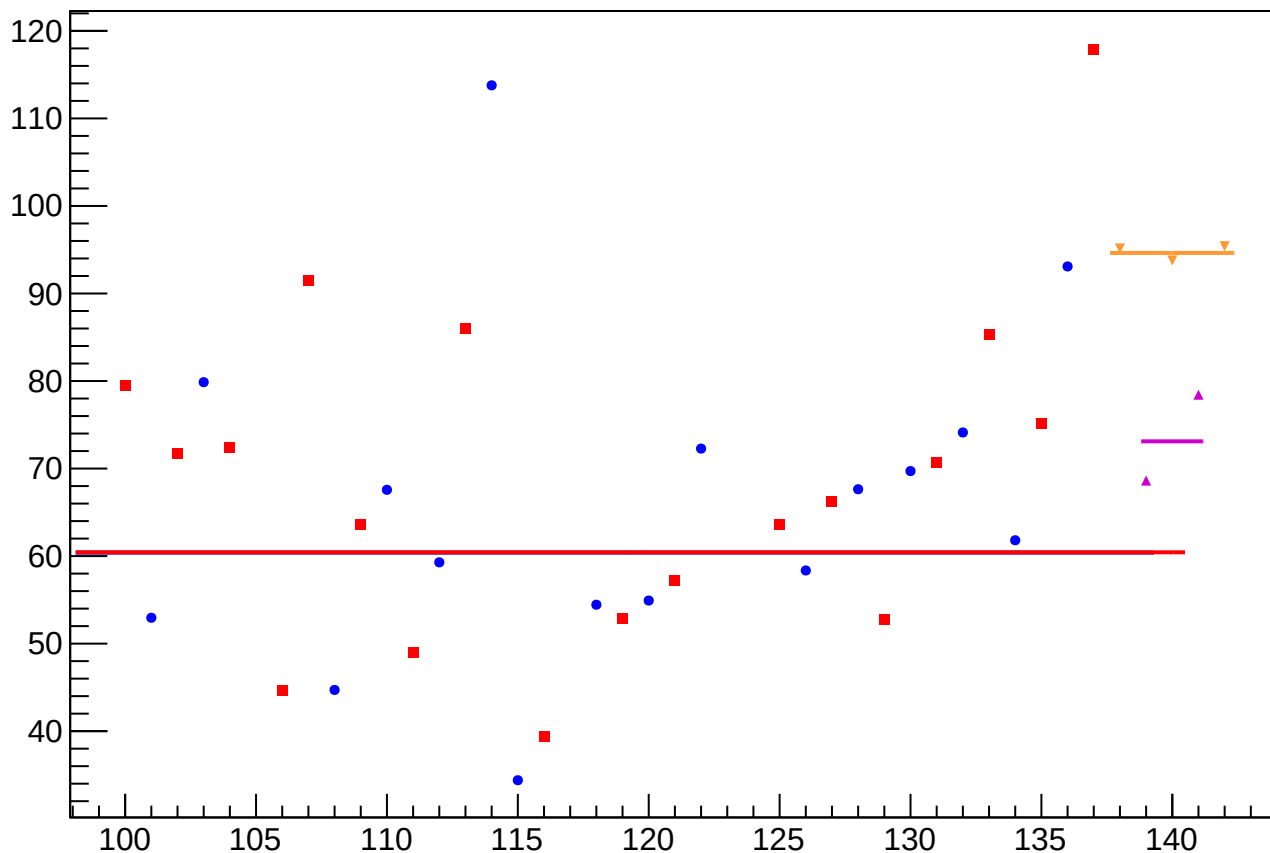
Right: -0.006 ± 0.017 $\chi^2/\text{NDF}: 49.4/33$

In: -0.007 ± 0.022 $\chi^2/\text{NDF}: 29.0/17$

Out: 0.016 ± 0.022 $\chi^2/\text{NDF}: 33.3/20$

All: 0.004 ± 0.016 $\chi^2/\text{NDF}: 62.9/38$

asym_us_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.398+/-0.017 χ^2/NDF : 703169.3/15

Left Out: 94.634+/-0.048 χ^2/NDF : 227.9/2

Right Out: 60.432+/-0.017 χ^2/NDF : 711122.4/17

Left In: 73.110+/-0.041 χ^2/NDF : 14537.2/1

Left: 82.059+/-0.031 χ^2/NDF : 132055.8/4

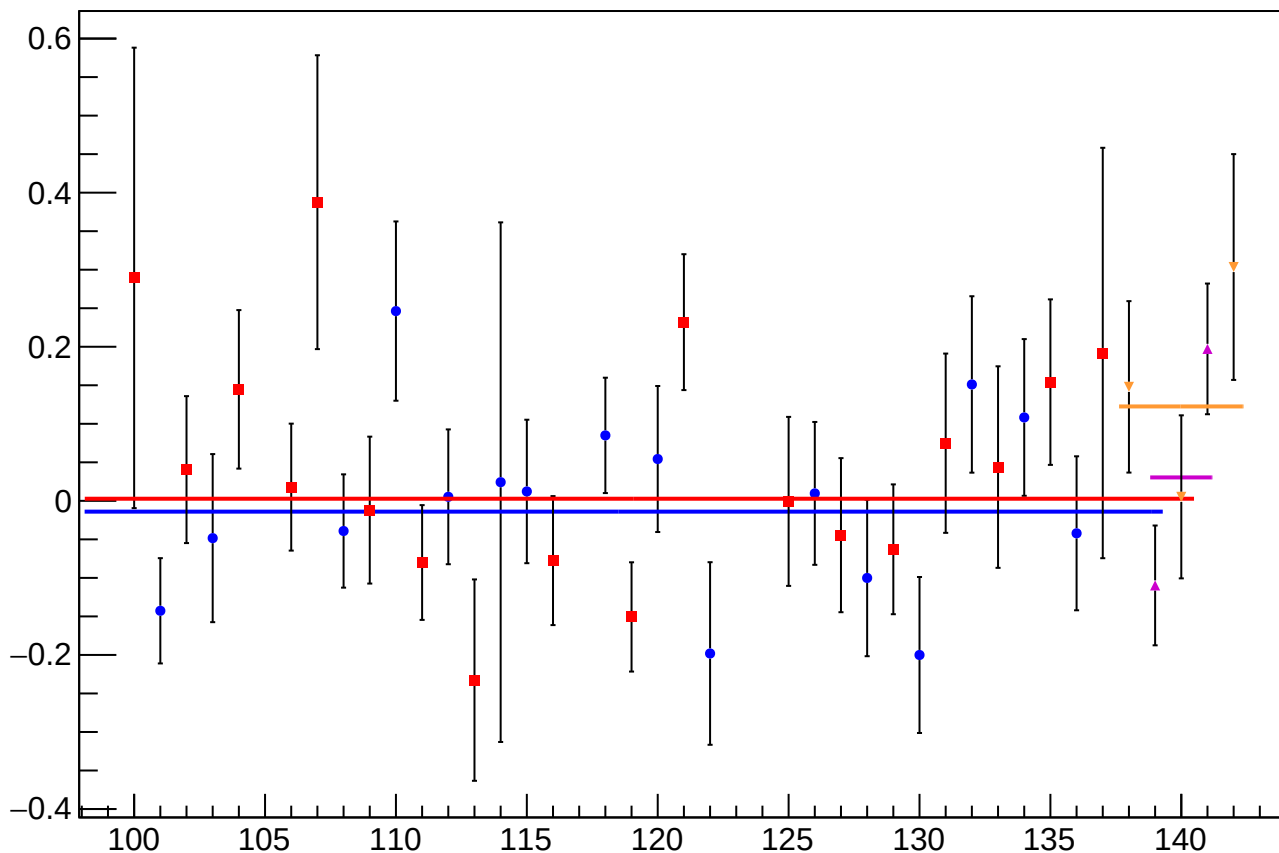
Right: 60.415+/-0.012 χ^2/NDF : 1414293.7/33

In: 62.276+/-0.016 χ^2/NDF : 801564.3/17

Out: 64.169+/-0.016 χ^2/NDF : 1162868.0/20

All: 63.204+/-0.011 χ^2/NDF : 1971679.3/38

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.014 ± 0.024 $\chi^2/\text{NDF}: 21.4/15$

Left Out: 0.123 ± 0.068 $\chi^2/\text{NDF}: 2.8/2$

Right Out: 0.003 ± 0.024 $\chi^2/\text{NDF}: 27.8/17$

Left In: 0.030 ± 0.057 $\chi^2/\text{NDF}: 7.1/1$

Left: 0.069 ± 0.044 $\chi^2/\text{NDF}: 11.0/4$

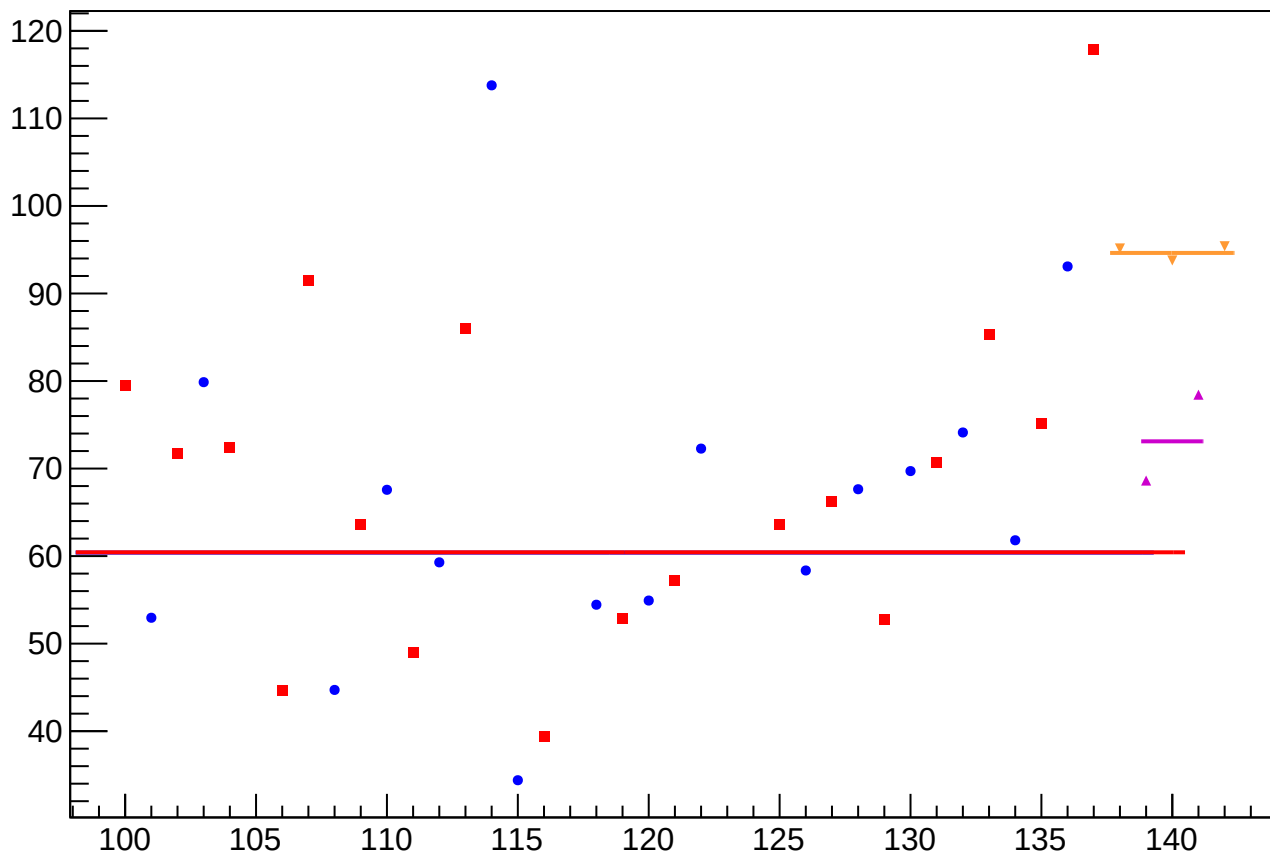
Right: -0.006 ± 0.017 $\chi^2/\text{NDF}: 49.4/33$

In: -0.007 ± 0.022 $\chi^2/\text{NDF}: 29.0/17$

Out: 0.016 ± 0.022 $\chi^2/\text{NDF}: 33.3/20$

All: 0.004 ± 0.016 $\chi^2/\text{NDF}: 62.9/38$

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.398+/-0.017 χ^2/NDF : 703169.3/15

Left Out: 94.634+/-0.048 χ^2/NDF : 227.9/2

Right Out: 60.432+/-0.017 χ^2/NDF : 711122.4/17

Left In: 73.110+/-0.041 χ^2/NDF : 14537.2/1

Left: 82.059+/-0.031 χ^2/NDF : 132055.8/4

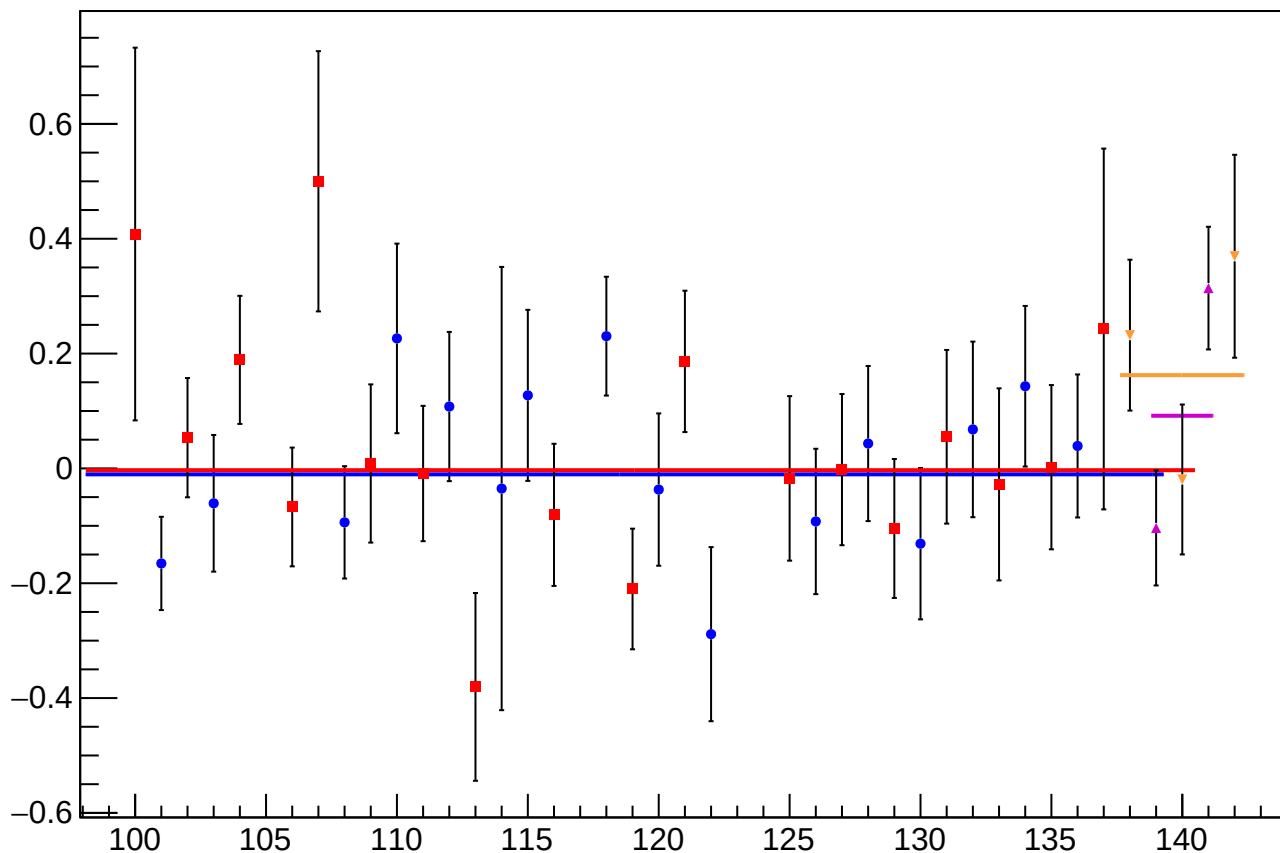
Right: 60.415+/-0.012 χ^2/NDF : 1414293.7/33

In: 62.276+/-0.016 χ^2/NDF : 801564.3/17

Out: 64.169+/-0.016 χ^2/NDF : 1162868.0/20

All: 63.204+/-0.011 χ^2/NDF : 1971679.3/38

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.032 χ^2/NDF : 20.2/15

Left Out: 0.162 ± 0.082 χ^2/NDF : 3.6/2

Right Out: -0.003 ± 0.032 χ^2/NDF : 23.7/17

Left In: 0.092 ± 0.073 χ^2/NDF : 8.1/1

Left: 0.123 ± 0.055 χ^2/NDF : 12.1/4

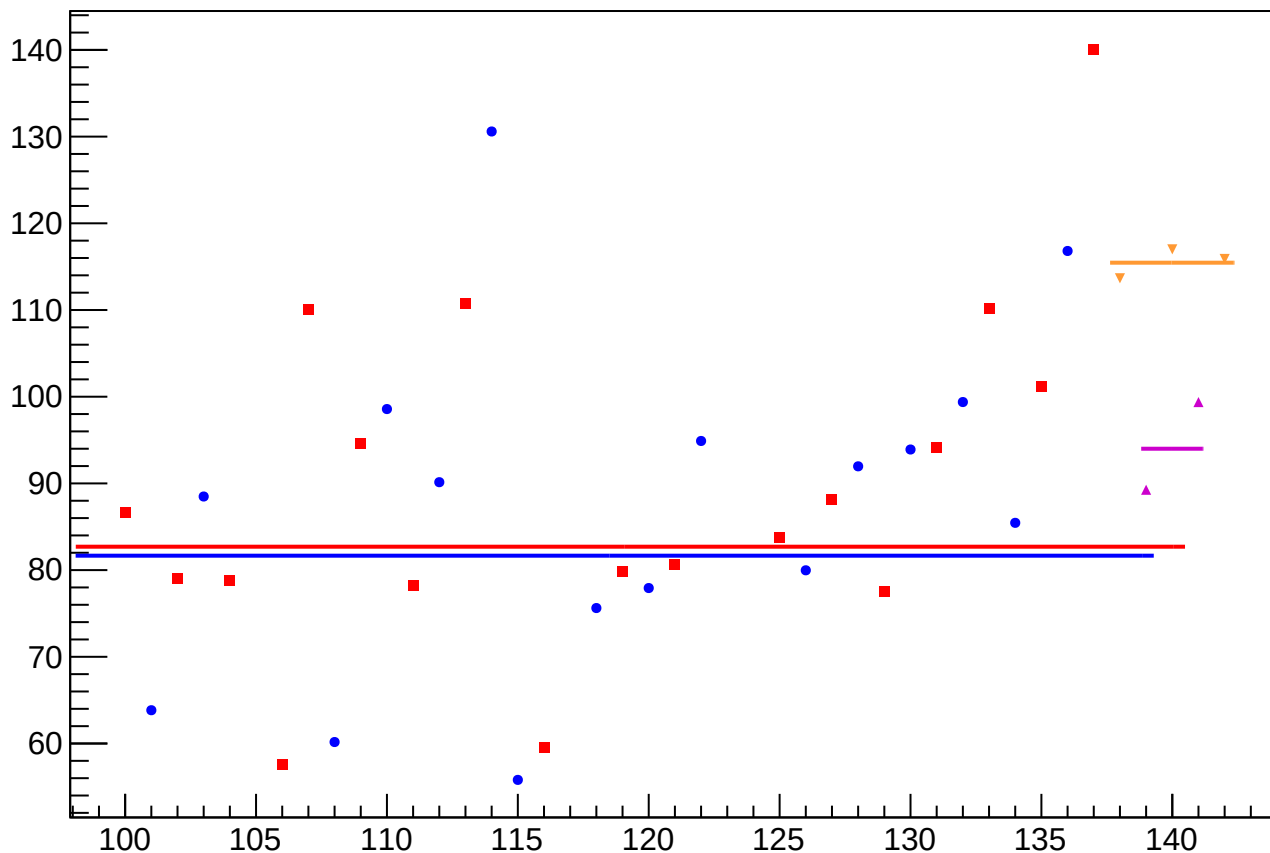
Right: -0.007 ± 0.022 χ^2/NDF : 43.8/33

In: 0.006 ± 0.029 χ^2/NDF : 29.9/17

Out: 0.018 ± 0.030 χ^2/NDF : 30.8/20

All: 0.012 ± 0.021 χ^2/NDF : 60.8/38

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 81.663 $\pm$ 0.022 χ^2/NDF : 561836.4/15

Left Out: 115.458 $\pm$ 0.058 χ^2/NDF : 664.7/2

Right Out: 82.700 $\pm$ 0.022 χ^2/NDF : 473062.4/17

Left In: 94.000 $\pm$ 0.052 χ^2/NDF : 9537.5/1

Left: 103.492 $\pm$ 0.039 χ^2/NDF : 86508.3/4

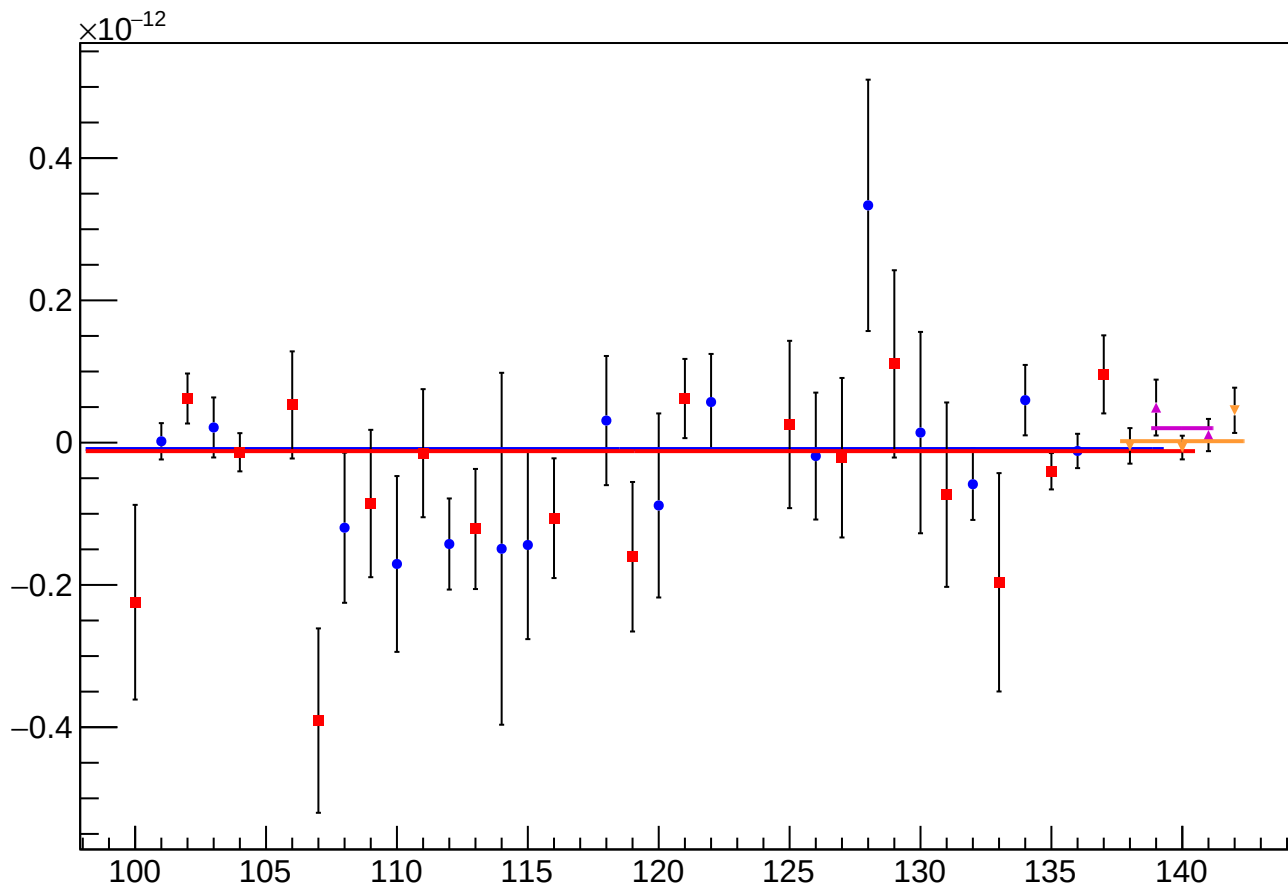
Right: 82.179 $\pm$ 0.016 χ^2/NDF : 1035971.3/33

In: 83.608 $\pm$ 0.021 χ^2/NDF : 619409.0/17

Out: 86.965 $\pm$ 0.021 χ^2/NDF : 751097.7/20

All: 85.252 $\pm$ 0.015 χ^2/NDF : 1383633.9/38

asym_us_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 17.4/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 2.2/2$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 31.1/17$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.7/1$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 3.6/4$

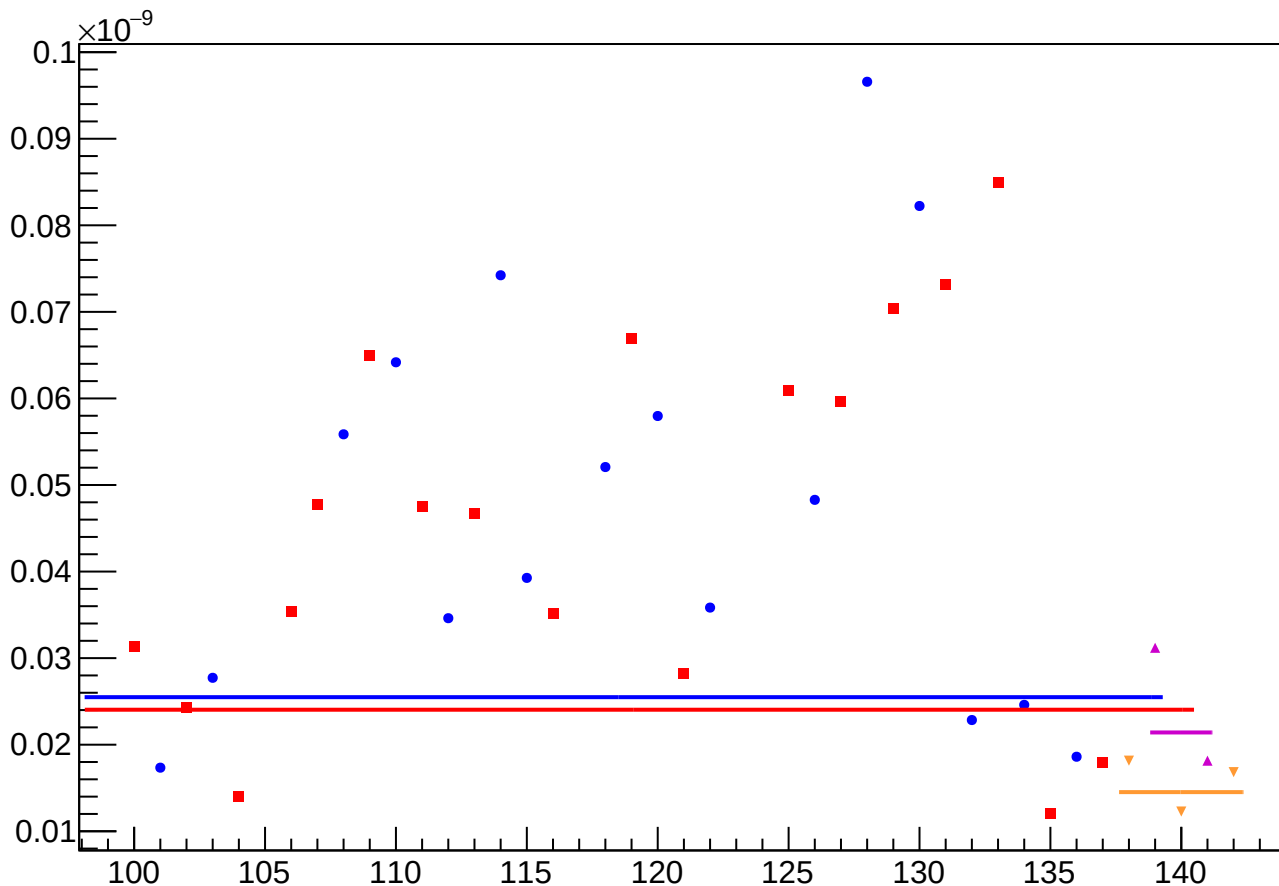
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 48.5/33$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 19.7/17$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 33.9/20$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 53.7/38$

asym_us_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1999848.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 89158.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3084598.6/17

Left In: 0.000+/-0.000 χ^2/NDF : 165554.2/1

Left: 0.000+/-0.000 χ^2/NDF : 428507.0/4

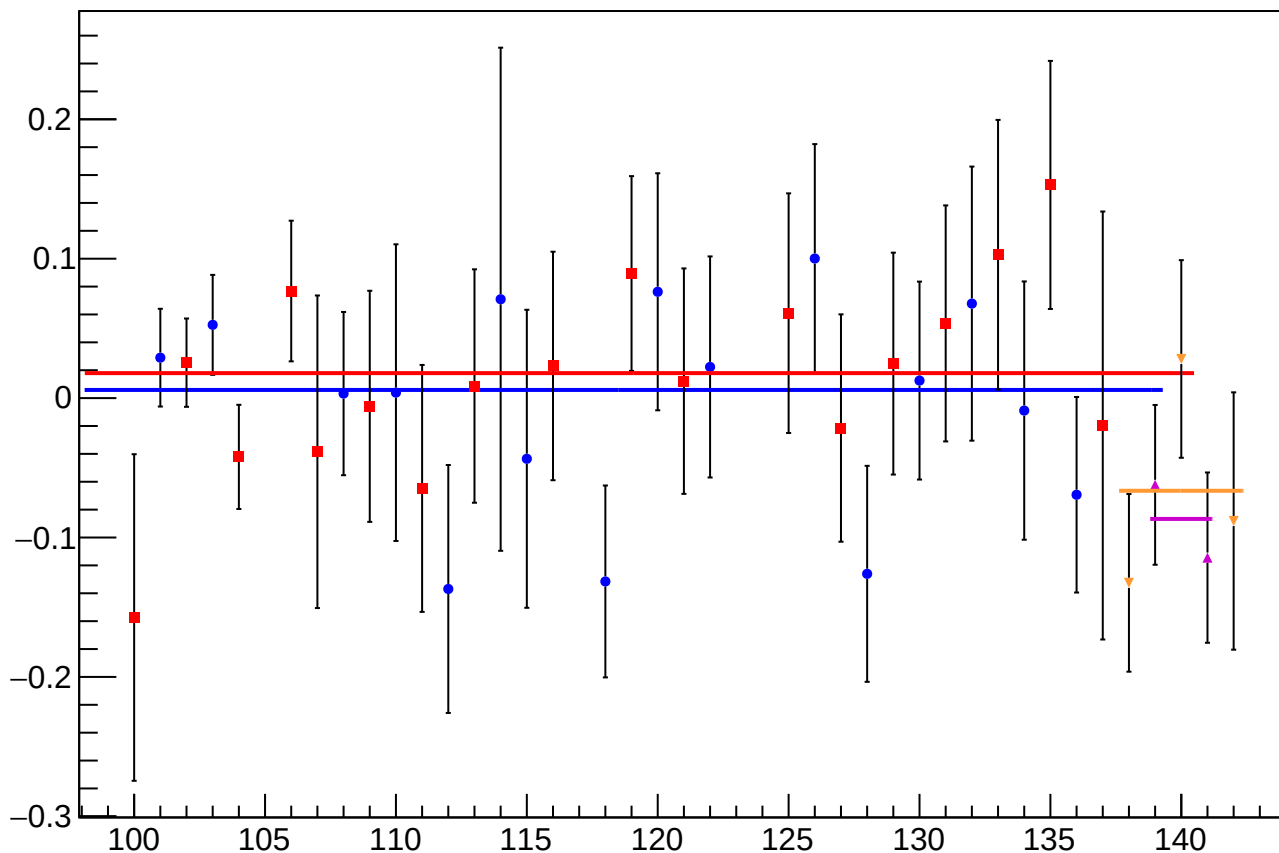
Right: 0.000+/-0.000 χ^2/NDF : 5096304.5/33

In: 0.000+/-0.000 χ^2/NDF : 2224707.5/17

Out: 0.000+/-0.000 χ^2/NDF : 3705486.6/20

All: 0.000+/-0.000 χ^2/NDF : 6192220.3/38

asym_us_avg_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 ± 0.017 $\chi^2/\text{NDF}: 15.6/15$

Left Out: -0.066 ± 0.042 $\chi^2/\text{NDF}: 2.9/2$

Right Out: 0.018 ± 0.016 $\chi^2/\text{NDF}: 12.3/17$

Left In: -0.087 ± 0.042 $\chi^2/\text{NDF}: 0.4/1$

Left: -0.077 ± 0.030 $\chi^2/\text{NDF}: 3.4/4$

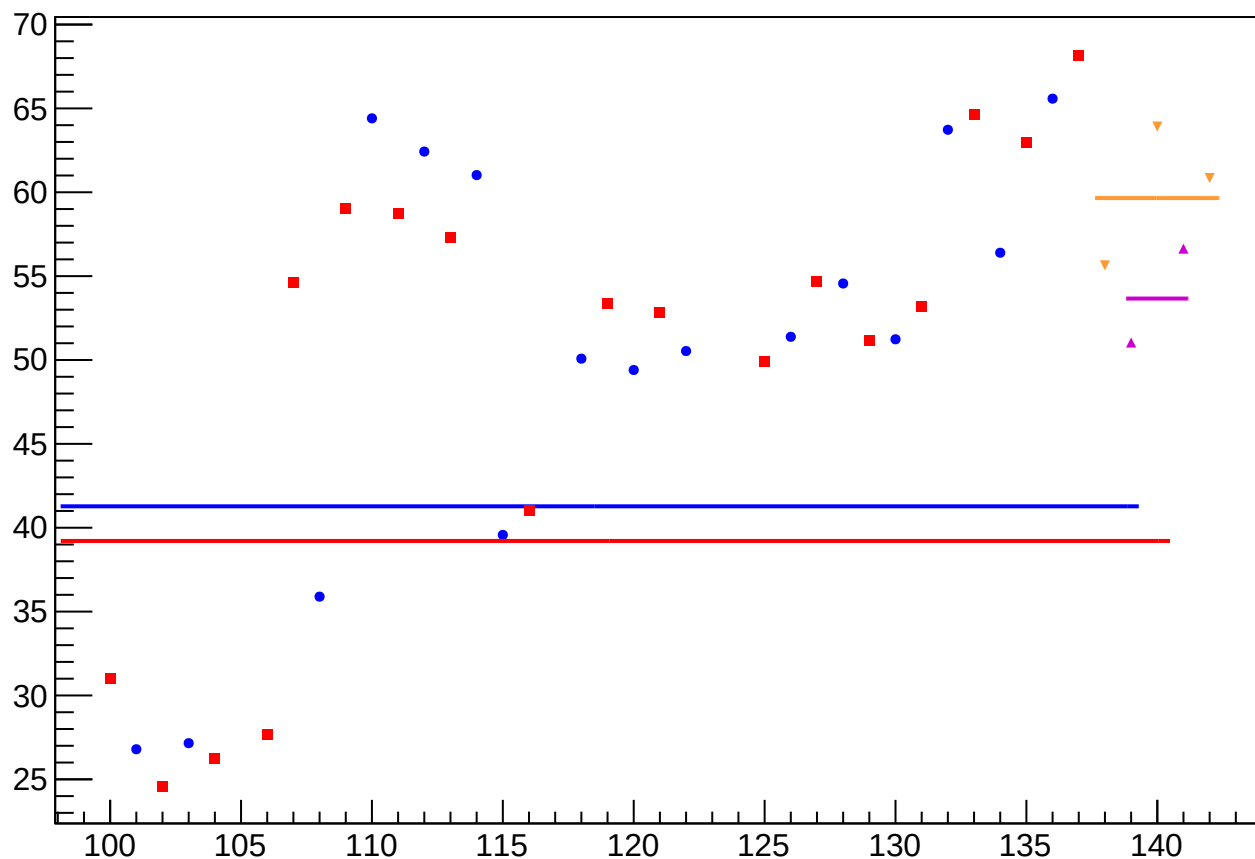
Right: 0.012 ± 0.011 $\chi^2/\text{NDF}: 28.2/33$

In: -0.007 ± 0.015 $\chi^2/\text{NDF}: 20.2/17$

Out: 0.008 ± 0.015 $\chi^2/\text{NDF}: 18.7/20$

All: 0.001 ± 0.011 $\chi^2/\text{NDF}: 39.4/38$

asym_us_avg_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.277 $\pm$ 0.012 χ^2 /NDF: 1505245.8/15

Left Out: 59.654 $\pm$ 0.030 χ^2 /NDF:15494.3/2

Right Out: 39.212 $\pm$ 0.011 χ^2 /NDF: 1819921.9/17

Left In: 53.663 $\pm$ 0.030 χ^2 /NDF:8932.7/1

Left: 56.633 $\pm$ 0.021 χ^2 /NDF: 44798.0/4

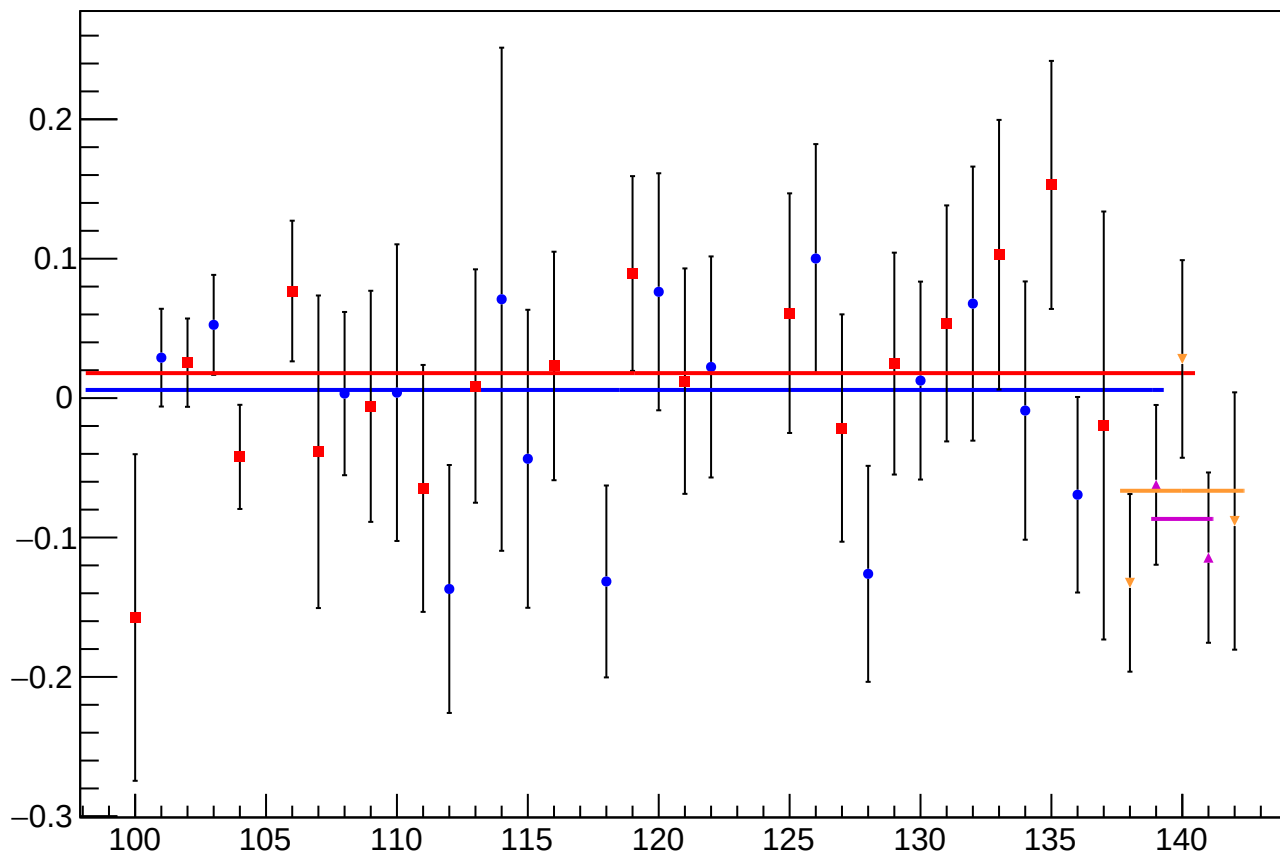
Right: 40.194 $\pm$ 0.008 χ^2 /NDF: 3341542.4/33

In: 42.952 $\pm$ 0.011 χ^2 /NDF:1666106.1/17

Out: 41.712 $\pm$ 0.010 χ^2 /NDF:2248218.1/20

All: 42.306 $\pm$ 0.008 χ^2 /NDF: 3921105.6/38

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 ± 0.017 $\chi^2/\text{NDF}: 15.6/15$

Left Out: -0.066 ± 0.042 $\chi^2/\text{NDF}: 2.9/2$

Right Out: 0.018 ± 0.016 $\chi^2/\text{NDF}: 12.3/17$

Left In: -0.087 ± 0.042 $\chi^2/\text{NDF}: 0.4/1$

Left: -0.077 ± 0.030 $\chi^2/\text{NDF}: 3.4/4$

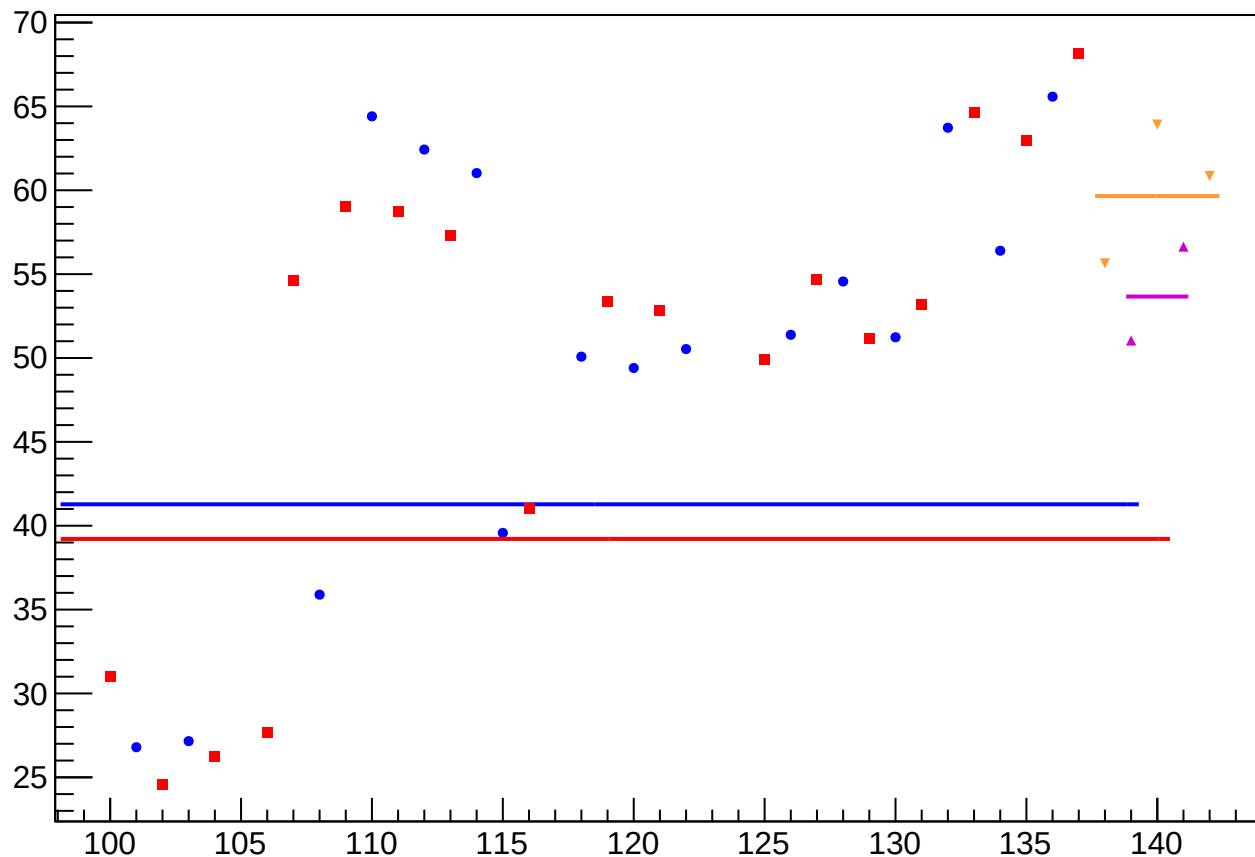
Right: 0.012 ± 0.011 $\chi^2/\text{NDF}: 28.2/33$

In: -0.007 ± 0.015 $\chi^2/\text{NDF}: 20.2/17$

Out: 0.008 ± 0.015 $\chi^2/\text{NDF}: 18.7/20$

All: 0.001 ± 0.011 $\chi^2/\text{NDF}: 39.4/38$

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.277 $\pm$ 0.012 χ^2 /NDF: 1505245.8/15

Left Out: 59.654 $\pm$ 0.030 χ^2 /NDF:15494.3/2

Right Out: 39.212 $\pm$ 0.011 χ^2 /NDF: 1819921.9/17

Left In: 53.663 $\pm$ 0.030 χ^2 /NDF:8932.7/1

Left: 56.633 $\pm$ 0.021 χ^2 /NDF: 44798.0/4

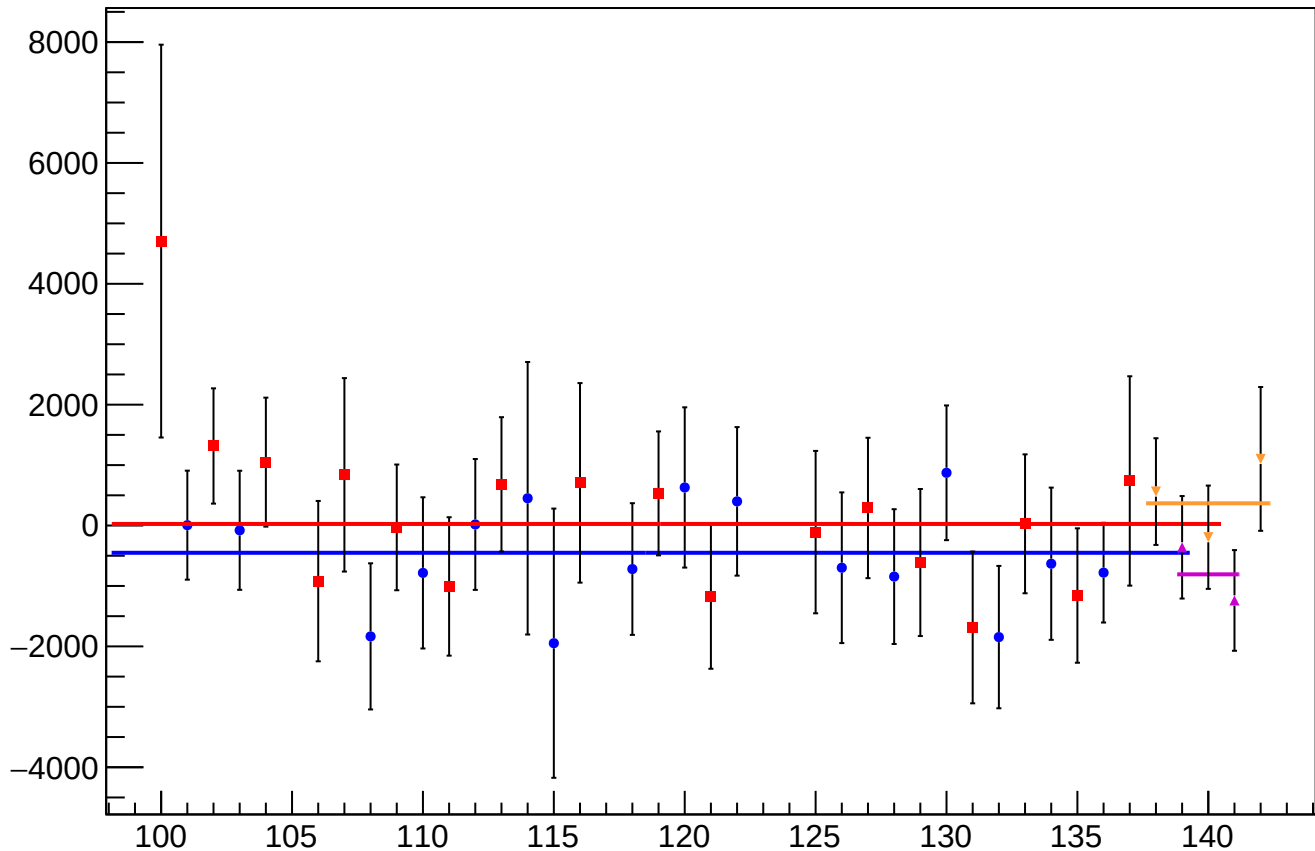
Right: 40.194 $\pm$ 0.008 χ^2 /NDF: 3341542.4/33

In: 42.952 $\pm$ 0.011 χ^2 /NDF:1666106.1/17

Out: 41.712 $\pm$ 0.010 χ^2 /NDF:2248218.1/20

All: 42.306 $\pm$ 0.008 χ^2 /NDF: 3921105.6/38

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -450.953 ± 288.950 χ^2/NDF : 6.9/15

Left Out: 367.653 ± 545.666 χ^2/NDF : 0.9/2

Right Out: 26.099 ± 288.079 χ^2/NDF : 11.7/17

Left In: -807.849 ± 594.309 χ^2/NDF : 0.5/1

Left: -170.030 ± 401.942 χ^2/NDF : 3.5/4

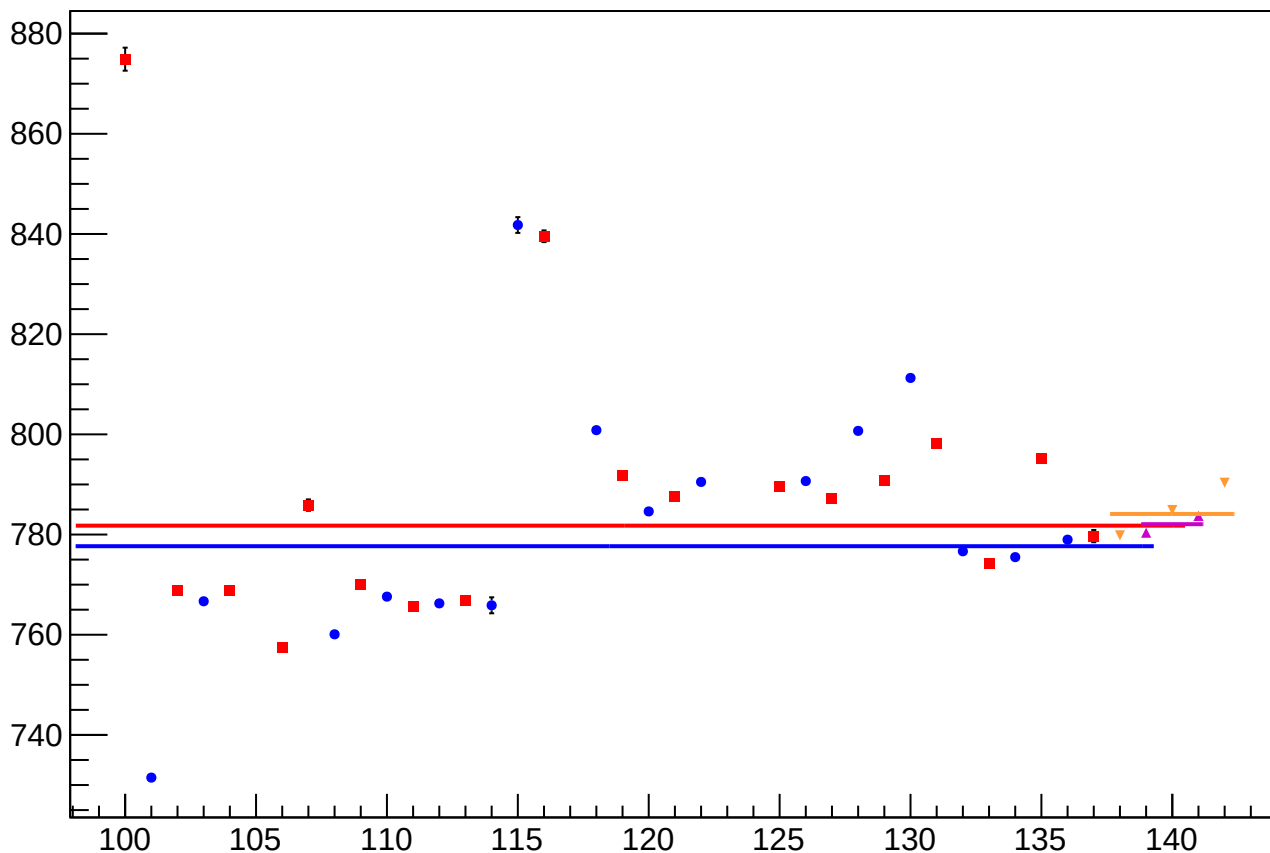
Right: -211.707 ± 204.010 χ^2/NDF : 20.0/33

In: -519.188 ± 259.864 χ^2/NDF : 7.8/17

Out: 100.547 ± 254.756 χ^2/NDF : 12.9/20

All: -203.170 ± 181.919 χ^2/NDF : 23.5/38

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 777.674 $\pm$ 0.204 χ^2 /NDF: 12055.4/15

Left Out: 784.113 $\pm$ 0.386 χ^2 /NDF:103.4/2

Right Out: 781.777 $\pm$ 0.204 χ^2 /NDF: 7626.3/17

Left In: 782.070 $\pm$ 0.420 χ^2 /NDF:15.8/1

Left: 783.178 $\pm$ 0.284 χ^2 /NDF: 132.0/4

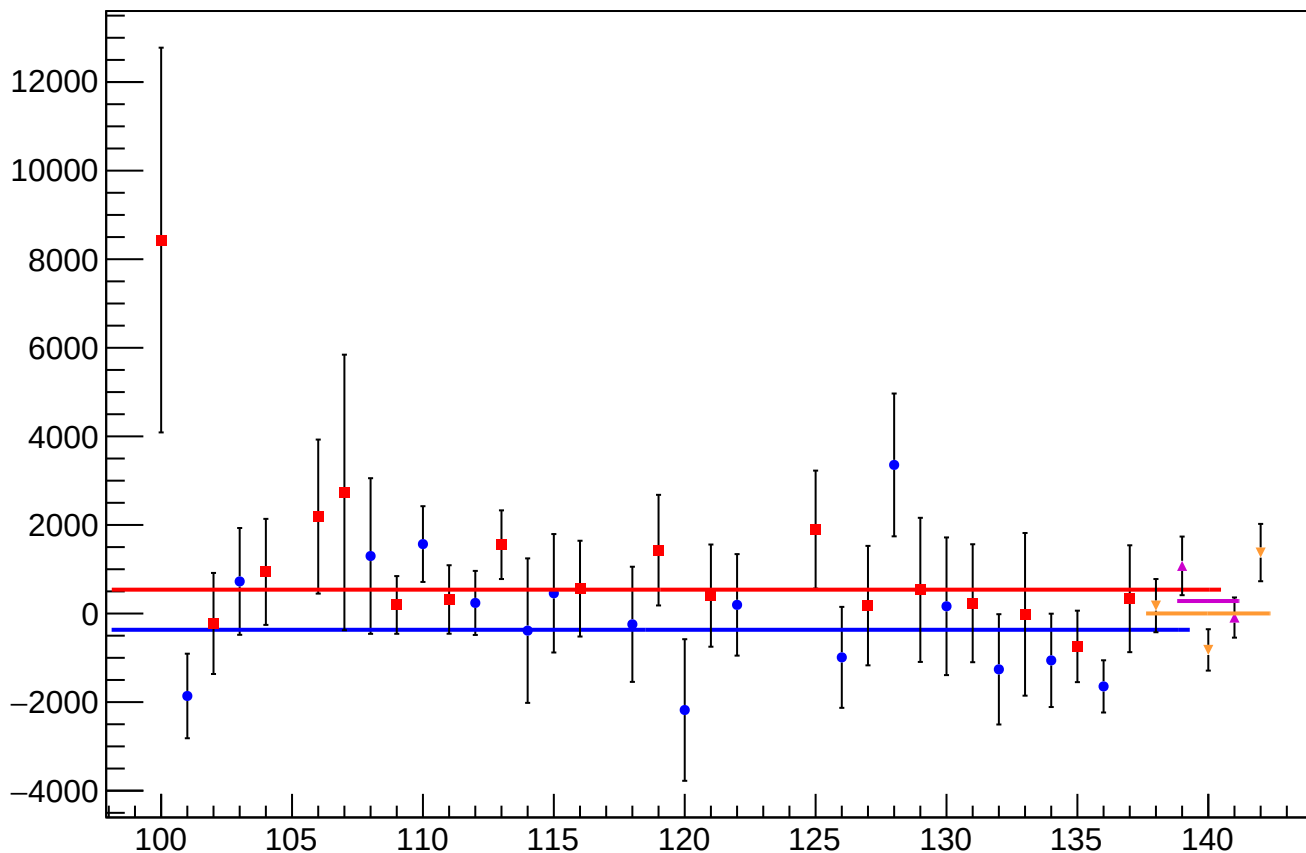
Right: 779.732 $\pm$ 0.144 χ^2 /NDF: 19883.9/33

In: 778.515 $\pm$ 0.184 χ^2 /NDF:12159.7/17

Out: 782.286 $\pm$ 0.180 χ^2 /NDF:7758.4/20

All: 780.438 $\pm$ 0.129 χ^2 /NDF: 20132.8/38

asym_us_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -367.008 ± 266.698 χ^2/NDF : 23.3/15

Left Out: 1.796 ± 320.458 χ^2/NDF : 7.7/2

Right Out: 538.887 ± 262.907 χ^2/NDF : 11.7/17

Left In: 282.587 ± 374.289 χ^2/NDF : 2.1/1

Left: 120.565 ± 243.426 χ^2/NDF : 10.1/4

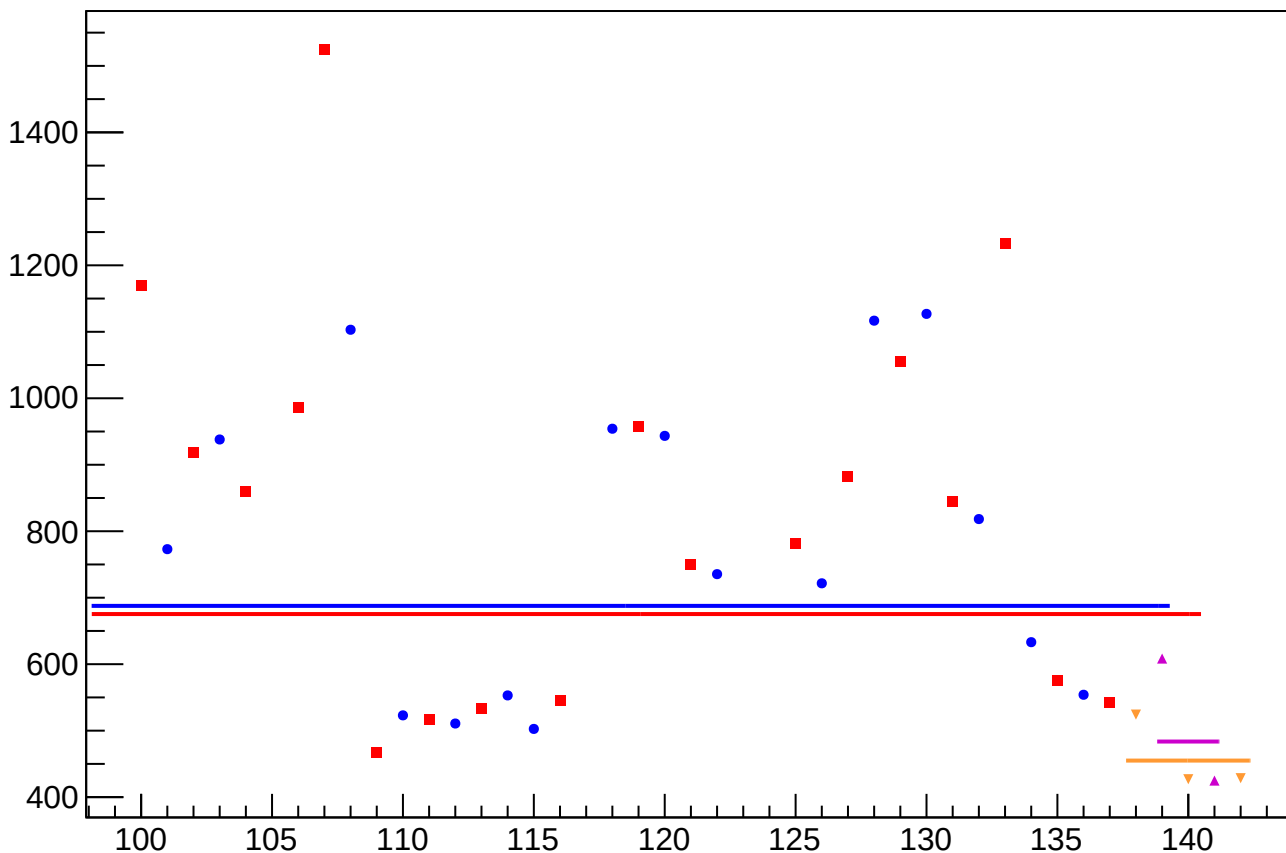
Right: 92.424 ± 187.229 χ^2/NDF : 40.8/33

In: -148.258 ± 217.200 χ^2/NDF : 27.4/17

Out: 322.817 ± 203.257 χ^2/NDF : 21.0/20

All: 102.884 ± 148.409 χ^2/NDF : 51.0/38

asym_us_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 687.717+/-0.189 χ^2/NDF : 1031906.6/15

Left Out: 454.993+/-0.227 χ^2/NDF : 37078.0/2

Right Out: 675.410+/-0.186 χ^2/NDF : 1313004.6/17

Left In: 483.631+/-0.265 χ^2/NDF : 104671.5/1

Left: 467.106+/-0.172 χ^2/NDF : 148505.5/4

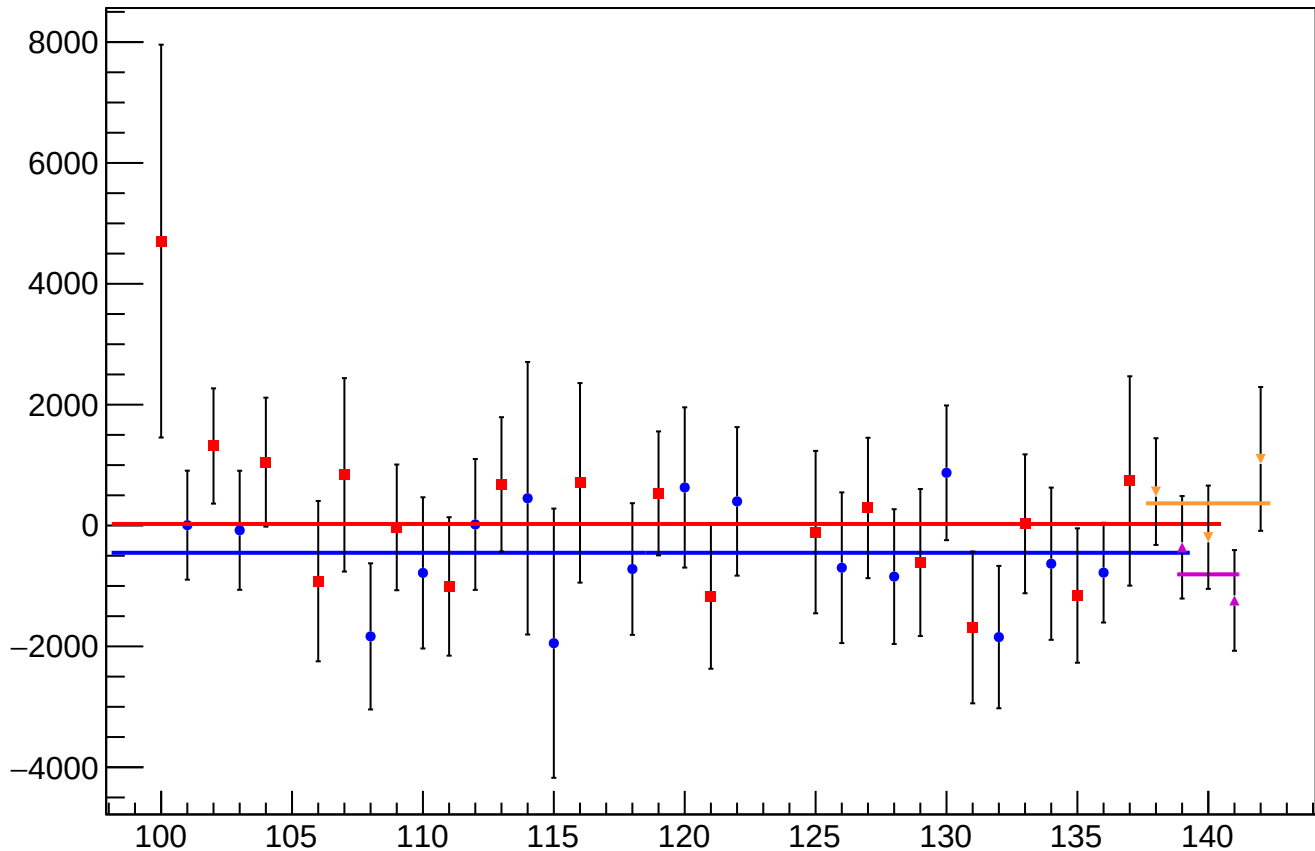
Right: 681.475+/-0.132 χ^2/NDF : 2347071.2/33

In: 618.991+/-0.154 χ^2/NDF : 1530964.2/17

Out: 586.737+/-0.144 χ^2/NDF : 1915620.6/20

All: 601.795+/-0.105 χ^2/NDF : 3470098.6/38

cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -450.953 ± 288.950 χ^2/NDF : 6.9/15

Left Out: 367.653 ± 545.666 χ^2/NDF : 0.9/2

Right Out: 26.099 ± 288.079 χ^2/NDF : 11.7/17

Left In: -807.849 ± 594.309 χ^2/NDF : 0.5/1

Left: -170.030 ± 401.942 χ^2/NDF : 3.5/4

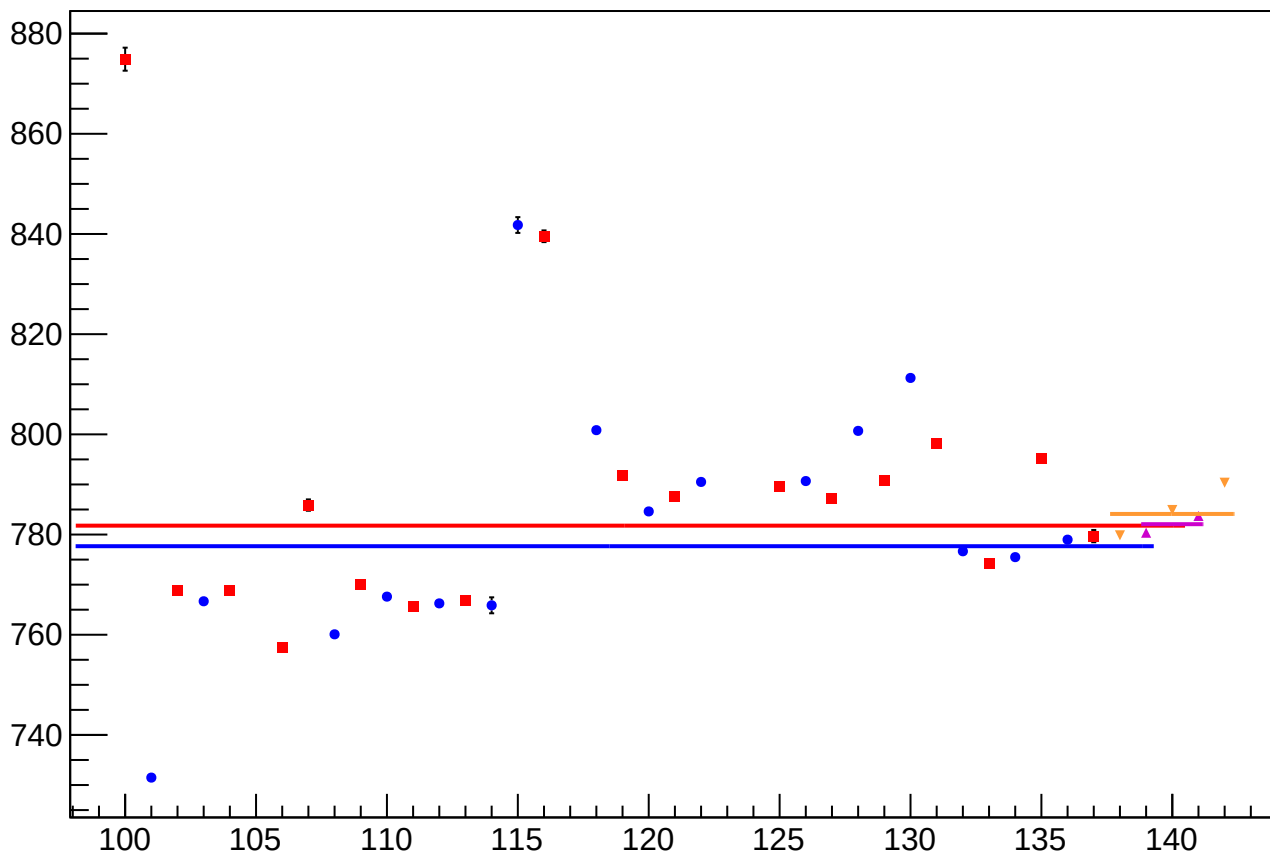
Right: -211.707 ± 204.010 χ^2/NDF : 20.0/33

In: -519.188 ± 259.864 χ^2/NDF : 7.8/17

Out: 100.547 ± 254.756 χ^2/NDF : 12.9/20

All: -203.170 ± 181.919 χ^2/NDF : 23.5/38

cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 777.674 ± 0.204 χ^2/NDF : 12055.4/15

Left Out: 784.113 ± 0.386 χ^2/NDF : 103.4/2

Right Out: 781.777 ± 0.204 χ^2/NDF : 7626.3/17

Left In: 782.070 ± 0.420 χ^2/NDF : 15.8/1

Left: 783.178 ± 0.284 χ^2/NDF : 132.0/4

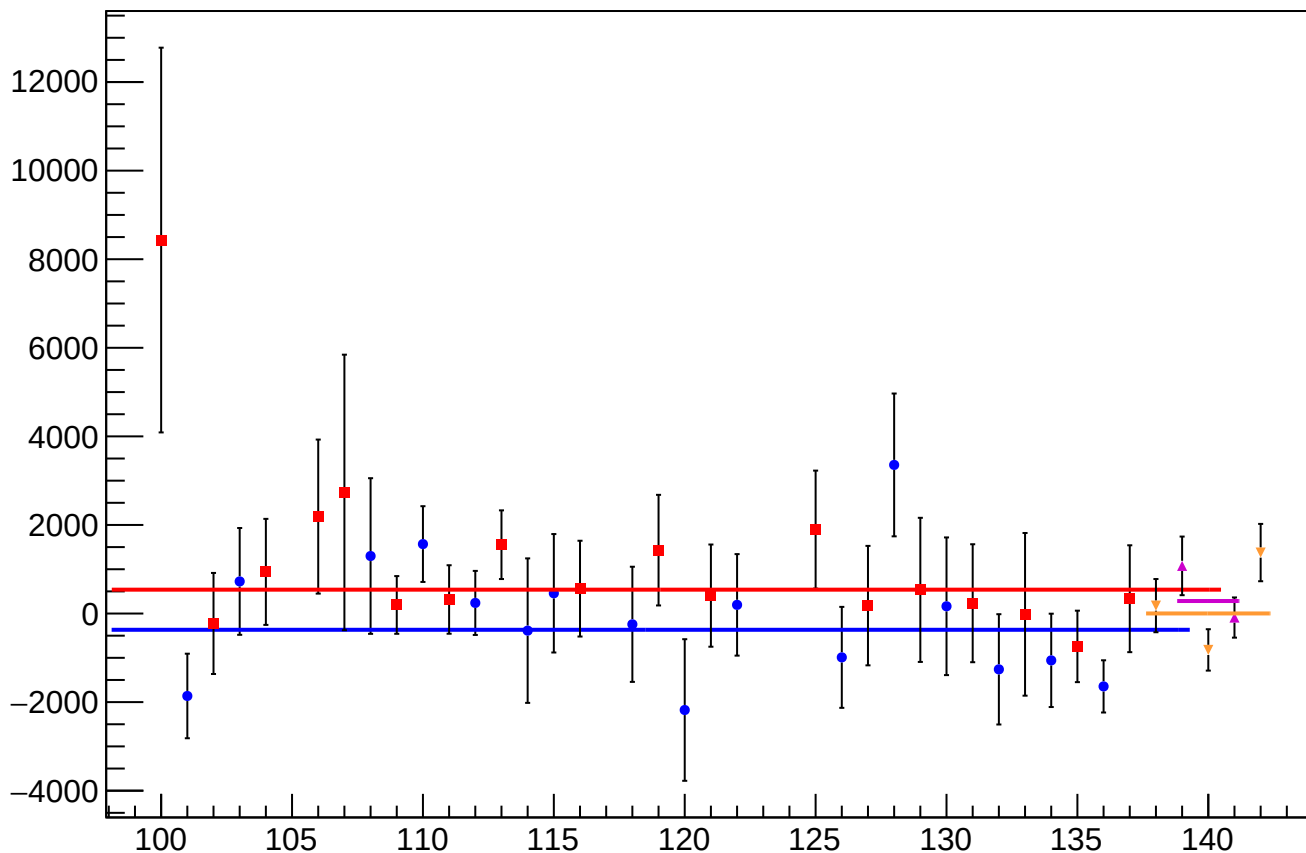
Right: 779.732 ± 0.144 χ^2/NDF : 19883.9/33

In: 778.515 ± 0.184 χ^2/NDF : 12159.7/17

Out: 782.286 ± 0.180 χ^2/NDF : 7758.4/20

All: 780.438 ± 0.129 χ^2/NDF : 20132.8/38

asym_us_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -367.008 ± 266.698 $\chi^2/\text{NDF}: 23.3/15$

Left Out: 1.796 ± 320.458 $\chi^2/\text{NDF}: 7.7/2$

Right Out: 538.887 ± 262.907 $\chi^2/\text{NDF}: 11.7/17$

Left In: 282.587 ± 374.289 $\chi^2/\text{NDF}: 2.1/1$

Left: 120.565 ± 243.426 $\chi^2/\text{NDF}: 10.1/4$

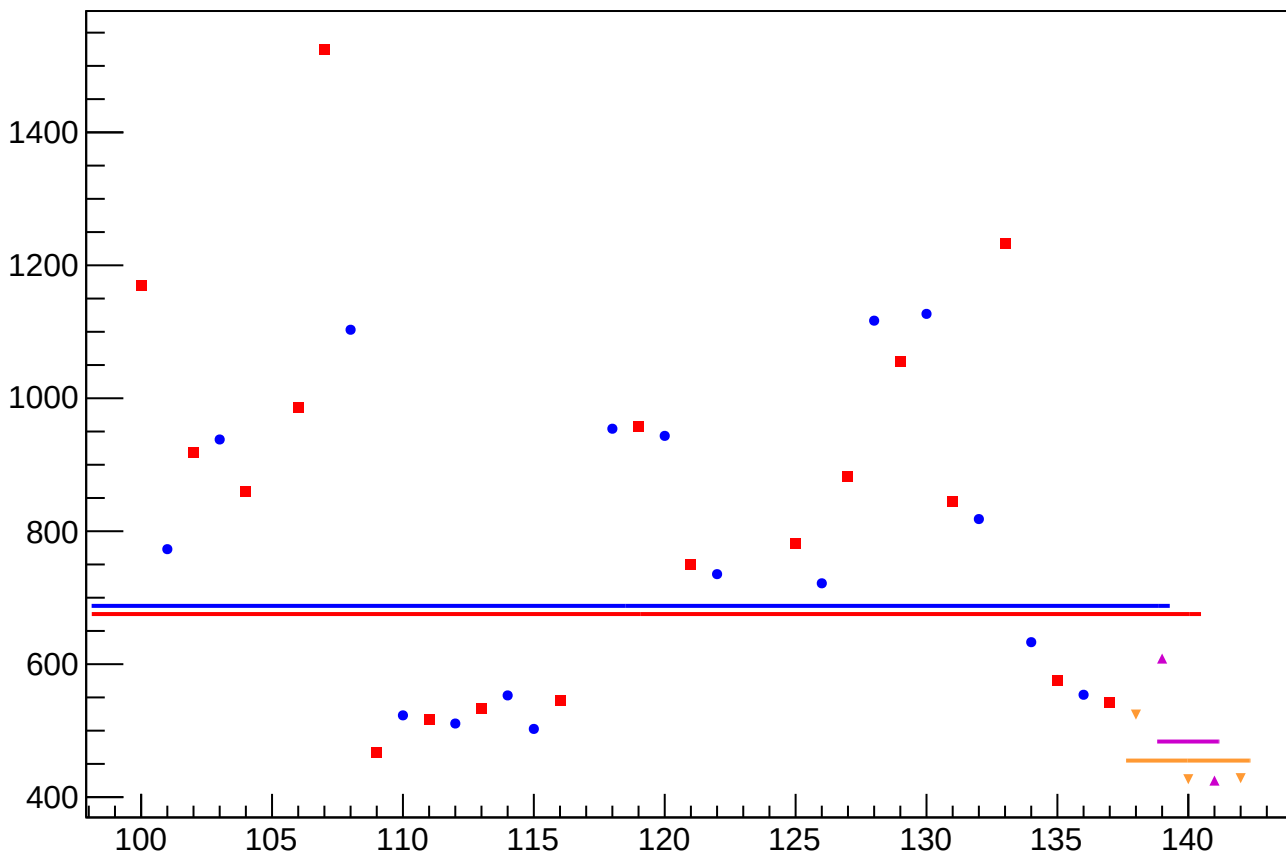
Right: 92.424 ± 187.229 $\chi^2/\text{NDF}: 40.8/33$

In: -148.258 ± 217.200 $\chi^2/\text{NDF}: 27.4/17$

Out: 322.817 ± 203.257 $\chi^2/\text{NDF}: 21.0/20$

All: 102.884 ± 148.409 $\chi^2/\text{NDF}: 51.0/38$

asym_us_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 687.717+/-0.189 χ^2/NDF : 1031906.6/15

Left Out: 454.993+/-0.227 χ^2/NDF : 37078.0/2

Right Out: 675.410+/-0.186 χ^2/NDF : 1313004.6/17

Left In: 483.631+/-0.265 χ^2/NDF : 104671.5/1

Left: 467.106+/-0.172 χ^2/NDF : 148505.5/4

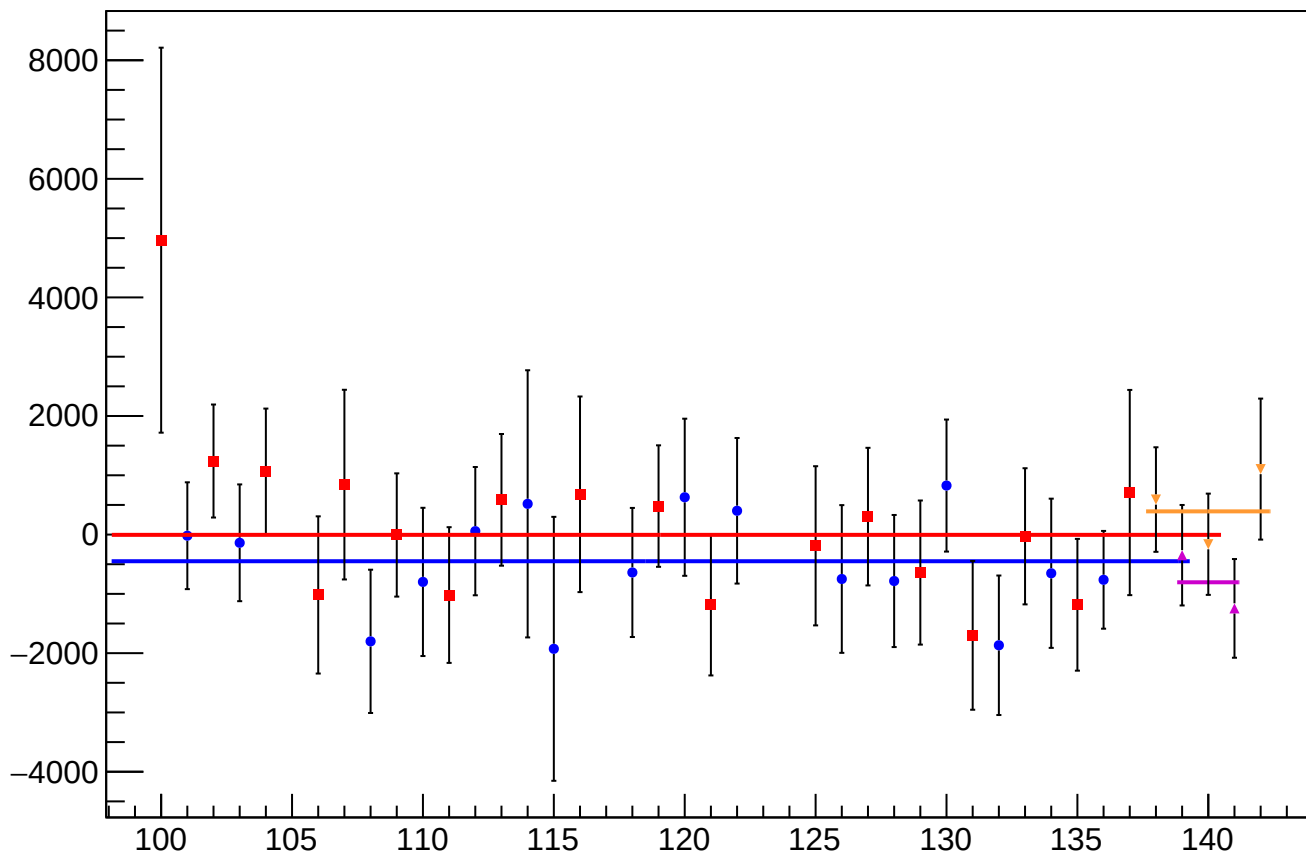
Right: 681.475+/-0.132 χ^2/NDF : 2347071.2/33

In: 618.991+/-0.154 χ^2/NDF : 1530964.2/17

Out: 586.737+/-0.144 χ^2/NDF : 1915620.6/20

All: 601.795+/-0.105 χ^2/NDF : 3470098.6/38

overload_cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -449.430 ± 288.668 χ^2/NDF : 6.8/15

Left Out: 391.444 ± 545.101 χ^2/NDF : 0.8/2

Right Out: -4.645 ± 287.815 χ^2/NDF : 11.8/17

Left In: -804.514 ± 593.813 χ^2/NDF : 0.6/1

Left: -155.477 ± 401.563 χ^2/NDF : 3.6/4

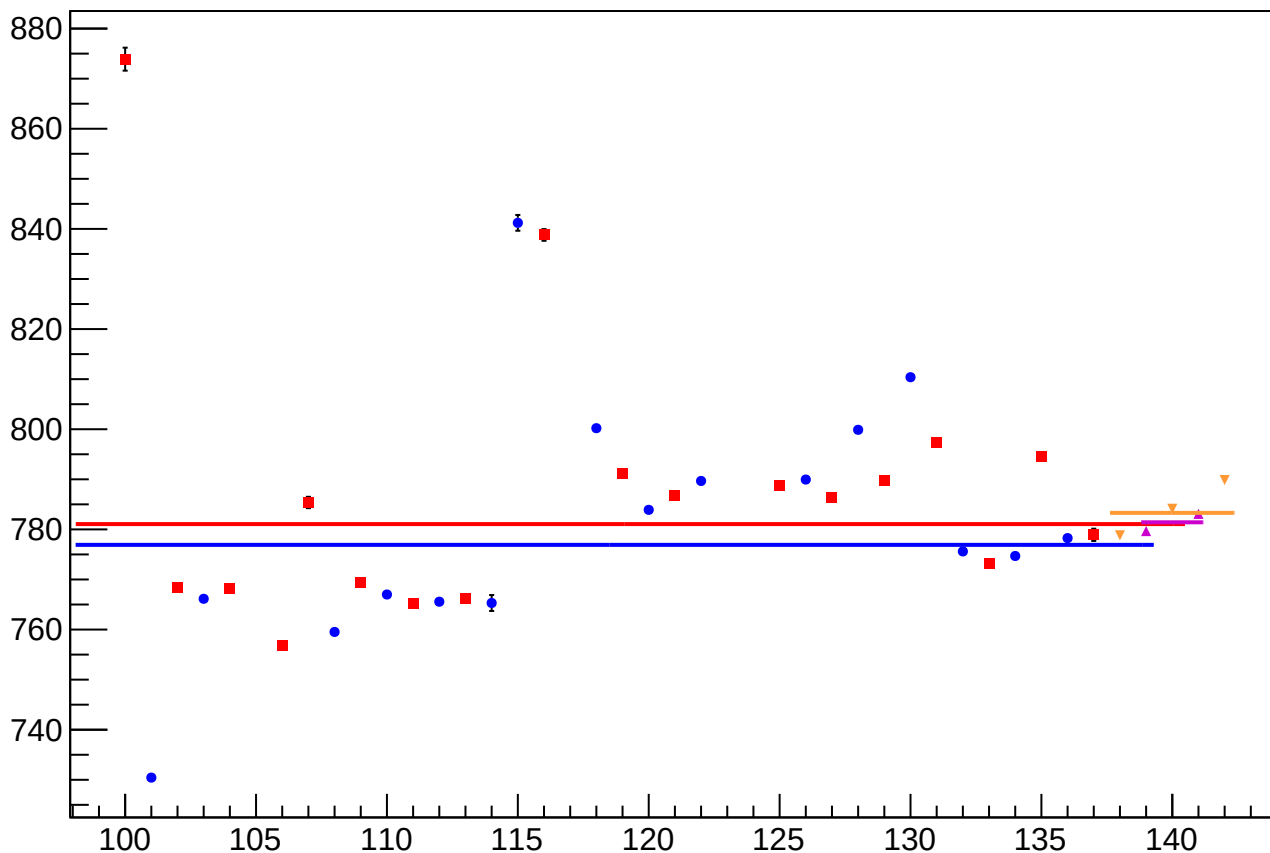
Right: -226.380 ± 203.817 χ^2/NDF : 19.8/33

In: -517.303 ± 259.617 χ^2/NDF : 7.6/17

Out: 81.706 ± 254.516 χ^2/NDF : 13.1/20

All: -211.856 ± 181.747 χ^2/NDF : 23.4/38

overload_cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 776.913 $\pm$ 0.204 χ^2/NDF : 12123.6/15

Left Out: 783.301 $\pm$ 0.385 χ^2/NDF :114.3/2

Right Out: 781.061 $\pm$ 0.204 χ^2/NDF : 7585.8/17

Left In: 781.416 $\pm$ 0.420 χ^2/NDF :16.8/1

Left: 782.439 $\pm$ 0.284 χ^2/NDF : 142.0/4

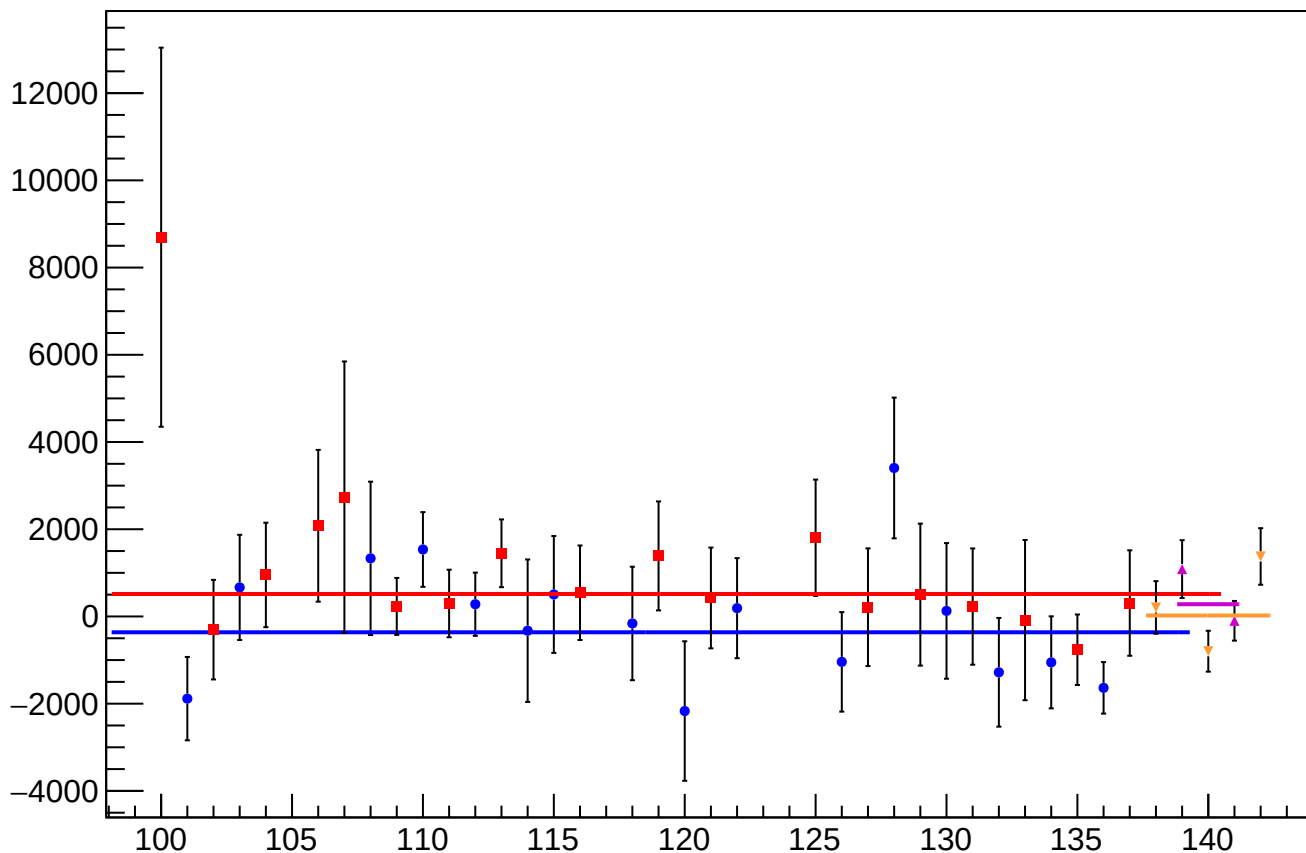
Right: 778.993 $\pm$ 0.144 χ^2/NDF : 19916.4/33

In: 777.774 $\pm$ 0.184 χ^2/NDF :12233.4/17

Out: 781.549 $\pm$ 0.180 χ^2/NDF :7726.5/20

All: 779.699 $\pm$ 0.129 χ^2/NDF : 20175.6/38

asym_us_dd_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: -362.811 ± 267.086 $\chi^2/\text{NDF}: 23.4/15$

Left Out: 22.132 ± 321.416 $\chi^2/\text{NDF}: 7.5/2$

Right Out: 515.295 ± 263.302 $\chi^2/\text{NDF}: 11.4/17$

Left In: 280.545 ± 375.118 $\chi^2/\text{NDF}: 2.2/1$

Left: 131.533 ± 244.074 $\chi^2/\text{NDF}: 9.9/4$

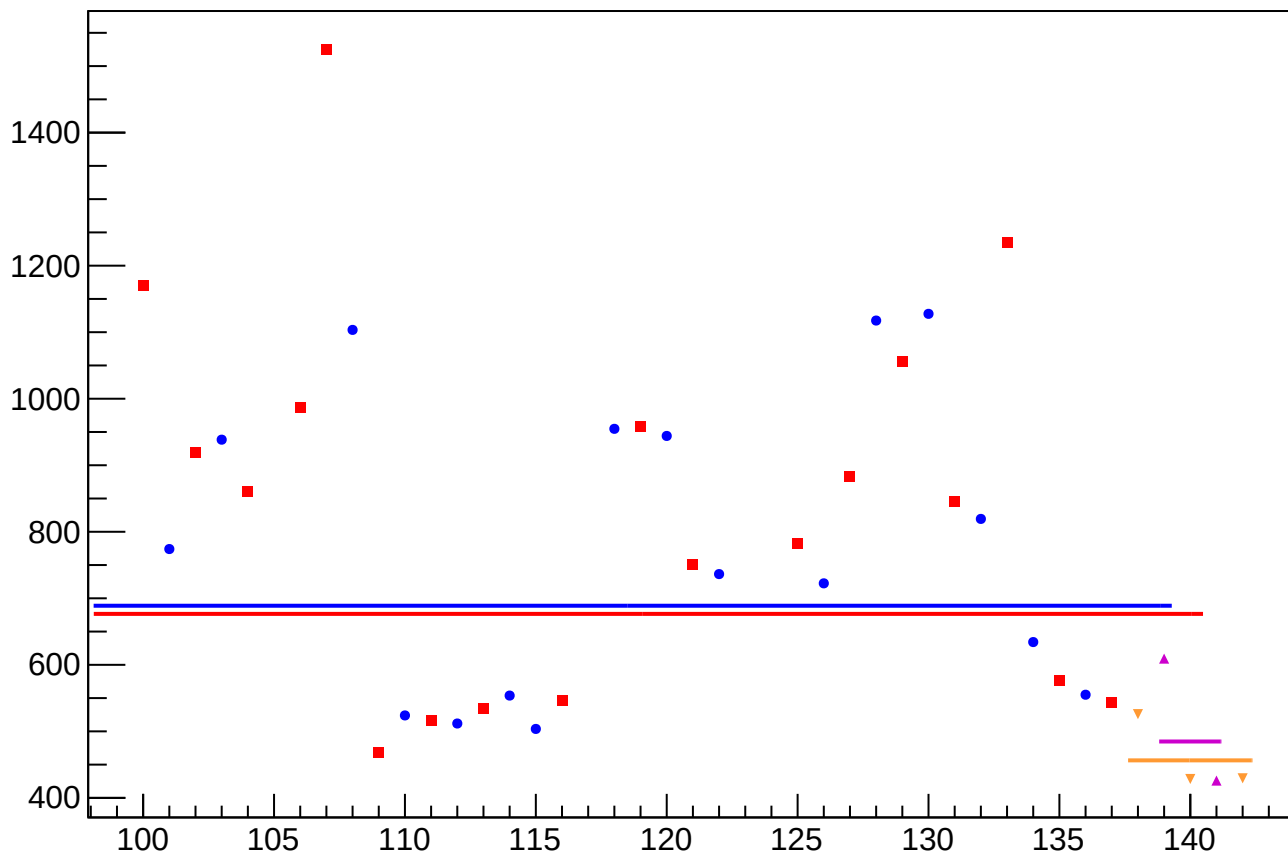
Right: 82.506 ± 187.506 $\chi^2/\text{NDF}: 40.2/33$

In: -146.381 ± 217.571 $\chi^2/\text{NDF}: 27.5/17$

Out: 317.249 ± 203.684 $\chi^2/\text{NDF}: 20.3/20$

All: 100.702 ± 148.693 $\chi^2/\text{NDF}: 50.2/38$

asym_us_dd_overload_cor_correction_rms vs Slug, Sign Corrected



Right In: 688.828+/-0.189 χ^2/NDF : 1028118.5/15

Left Out: 456.388+/-0.227 χ^2/NDF : 37173.6/2

Right Out: 676.572+/-0.186 χ^2/NDF : 1308036.1/17

Left In: 484.753+/-0.265 χ^2/NDF : 104050.4/1

Left: 468.396+/-0.173 χ^2/NDF : 147818.1/4

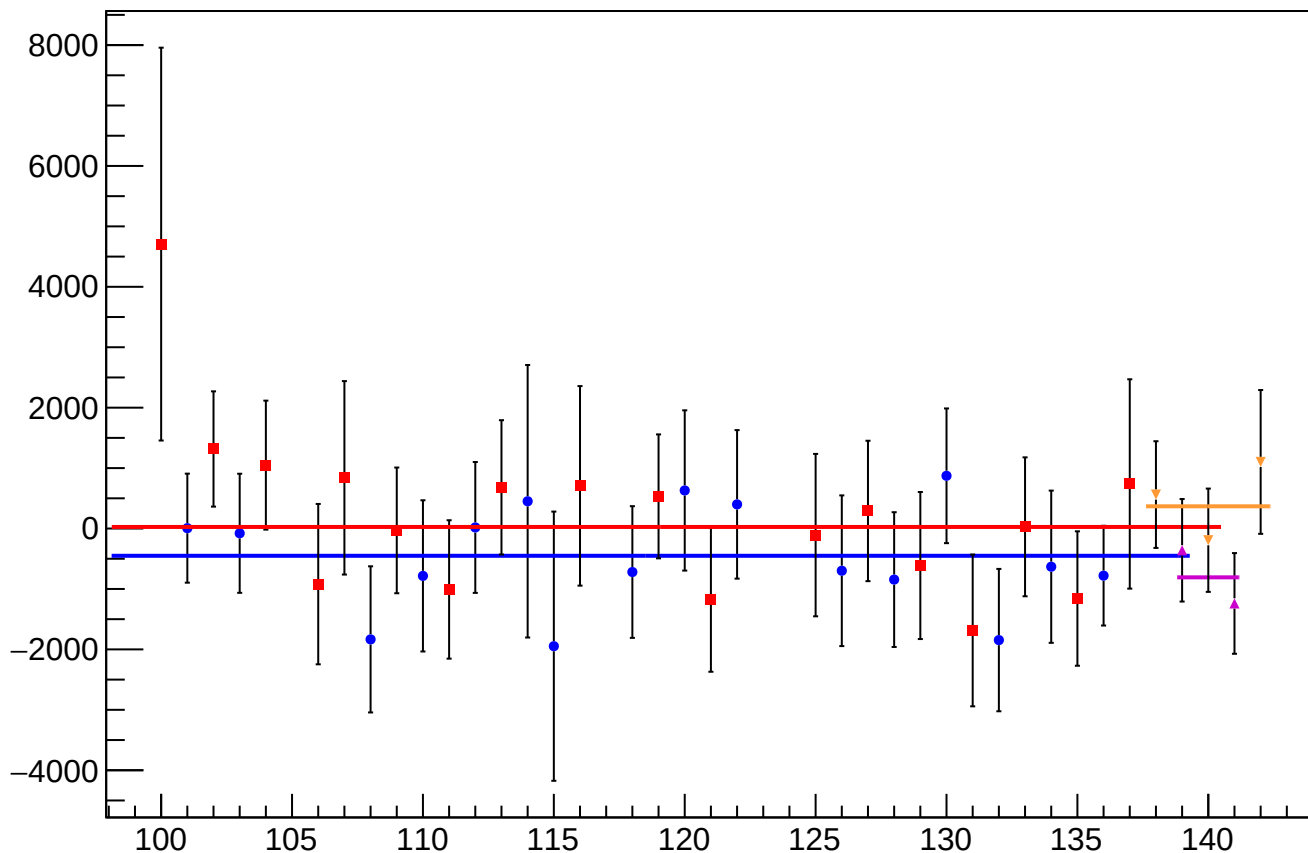
Right: 682.613+/-0.133 χ^2/NDF : 2338290.5/33

In: 620.176+/-0.154 χ^2/NDF : 1524974.8/17

Out: 588.150+/-0.144 χ^2/NDF : 1906863.4/20

All: 603.108+/-0.105 χ^2/NDF : 3454932.5/38

eigen_cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -450.953+/-288.950 χ^2/NDF : 6.9/15

Left Out: 367.653+/-545.666 χ^2/NDF : 0.9/2

Right Out: 26.099+/-288.079 χ^2/NDF : 11.7/17

Left In: -807.849+/-594.309 χ^2/NDF : 0.5/1

Left: -170.030+/-401.942 χ^2/NDF : 3.5/4

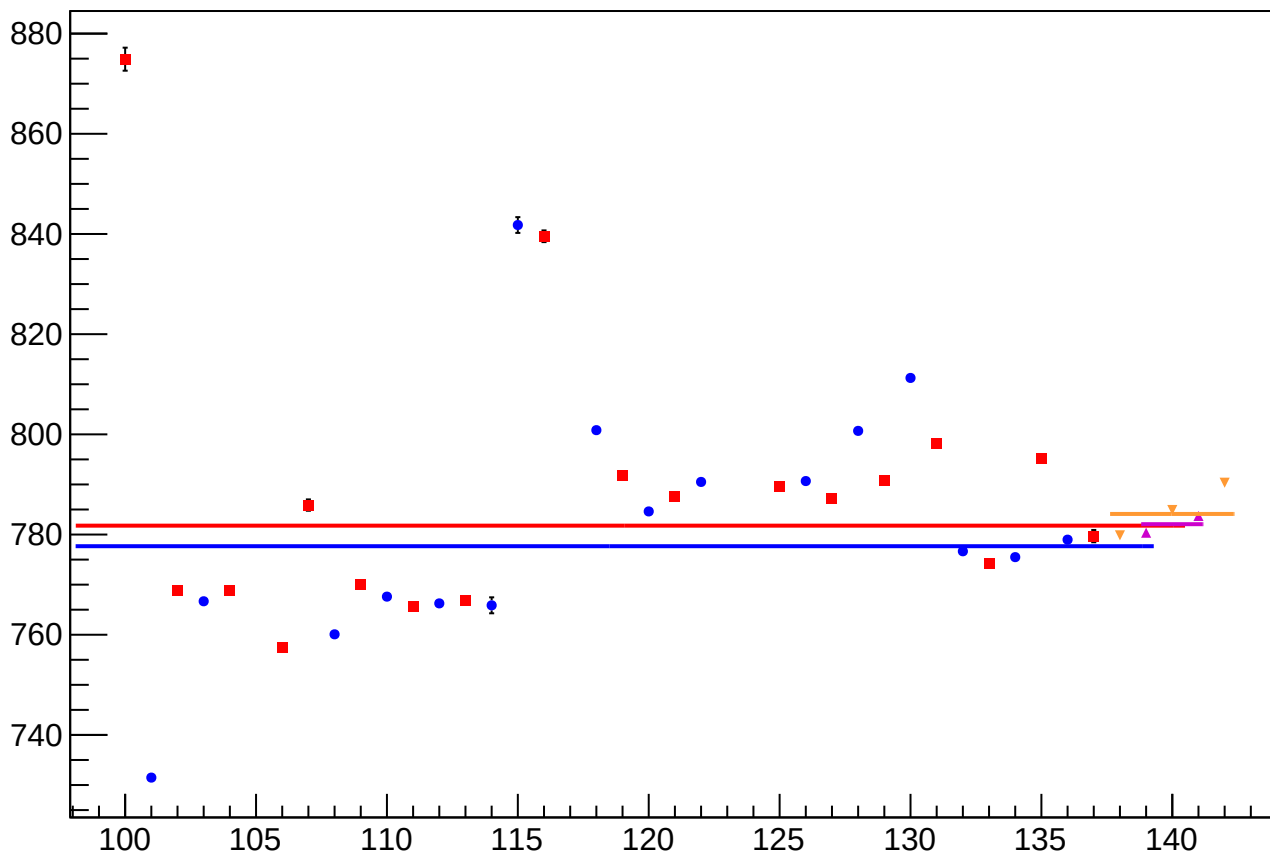
Right: -211.707+/-204.010 χ^2/NDF : 20.0/33

In: -519.188+/-259.864 χ^2/NDF : 7.8/17

Out: 100.547+/-254.756 χ^2/NDF : 12.9/20

All: -203.170+/-181.919 χ^2/NDF : 23.5/38

eigen_cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 777.674 $\pm$ 0.204 χ^2 /NDF: 12055.4/15

Left Out: 784.113 $\pm$ 0.386 χ^2 /NDF:103.4/2

Right Out: 781.777 $\pm$ 0.204 χ^2 /NDF: 7626.3/17

Left In: 782.070 $\pm$ 0.420 χ^2 /NDF:15.8/1

Left: 783.178 $\pm$ 0.284 χ^2 /NDF: 132.0/4

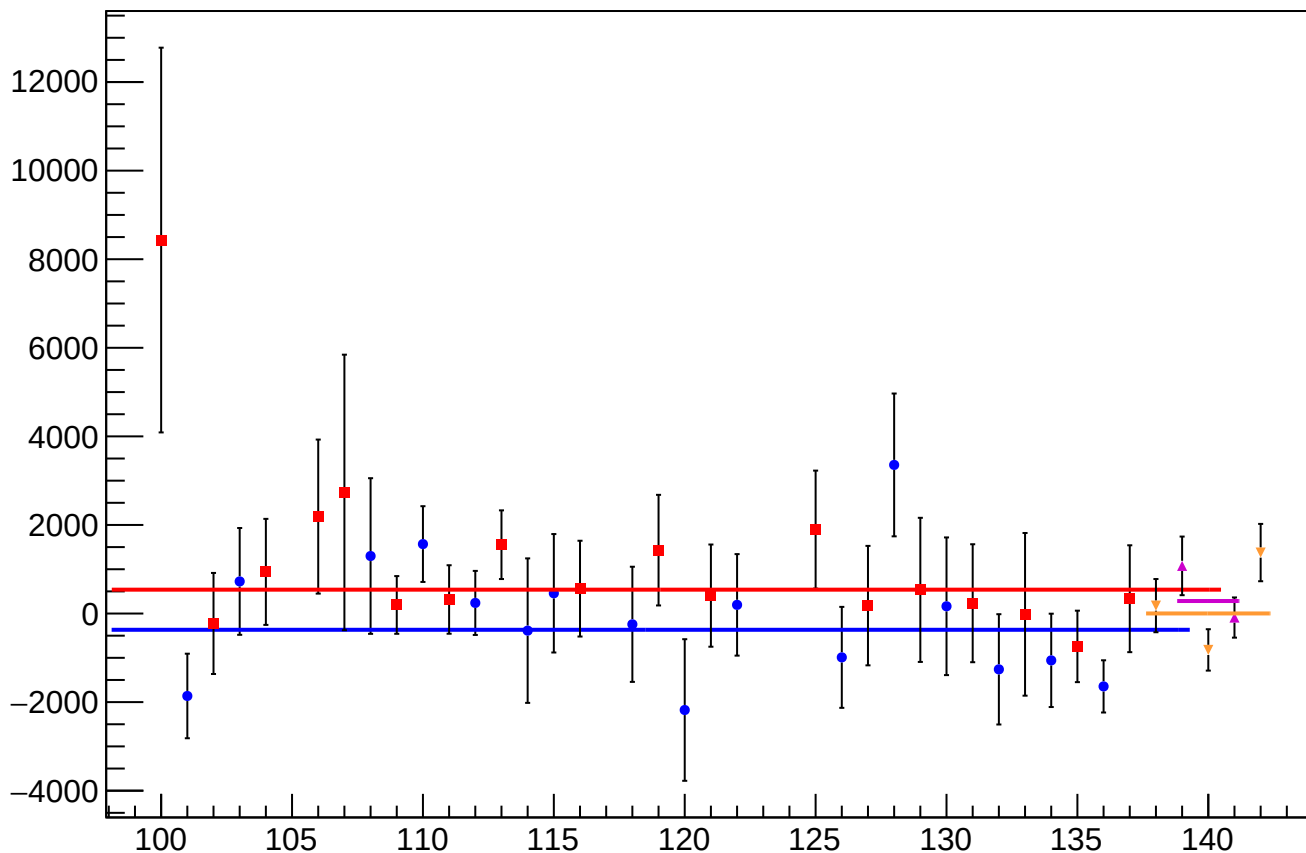
Right: 779.732 $\pm$ 0.144 χ^2 /NDF: 19883.9/33

In: 778.515 $\pm$ 0.184 χ^2 /NDF:12159.7/17

Out: 782.286 $\pm$ 0.180 χ^2 /NDF:7758.4/20

All: 780.438 $\pm$ 0.129 χ^2 /NDF: 20132.8/38

asym_us_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -367.008 ± 266.698 $\chi^2/\text{NDF}: 23.3/15$

Left Out: 1.796 ± 320.458 $\chi^2/\text{NDF}: 7.7/2$

Right Out: 538.887 ± 262.907 $\chi^2/\text{NDF}: 11.7/17$

Left In: 282.587 ± 374.289 $\chi^2/\text{NDF}: 2.1/1$

Left: 120.565 ± 243.426 $\chi^2/\text{NDF}: 10.1/4$

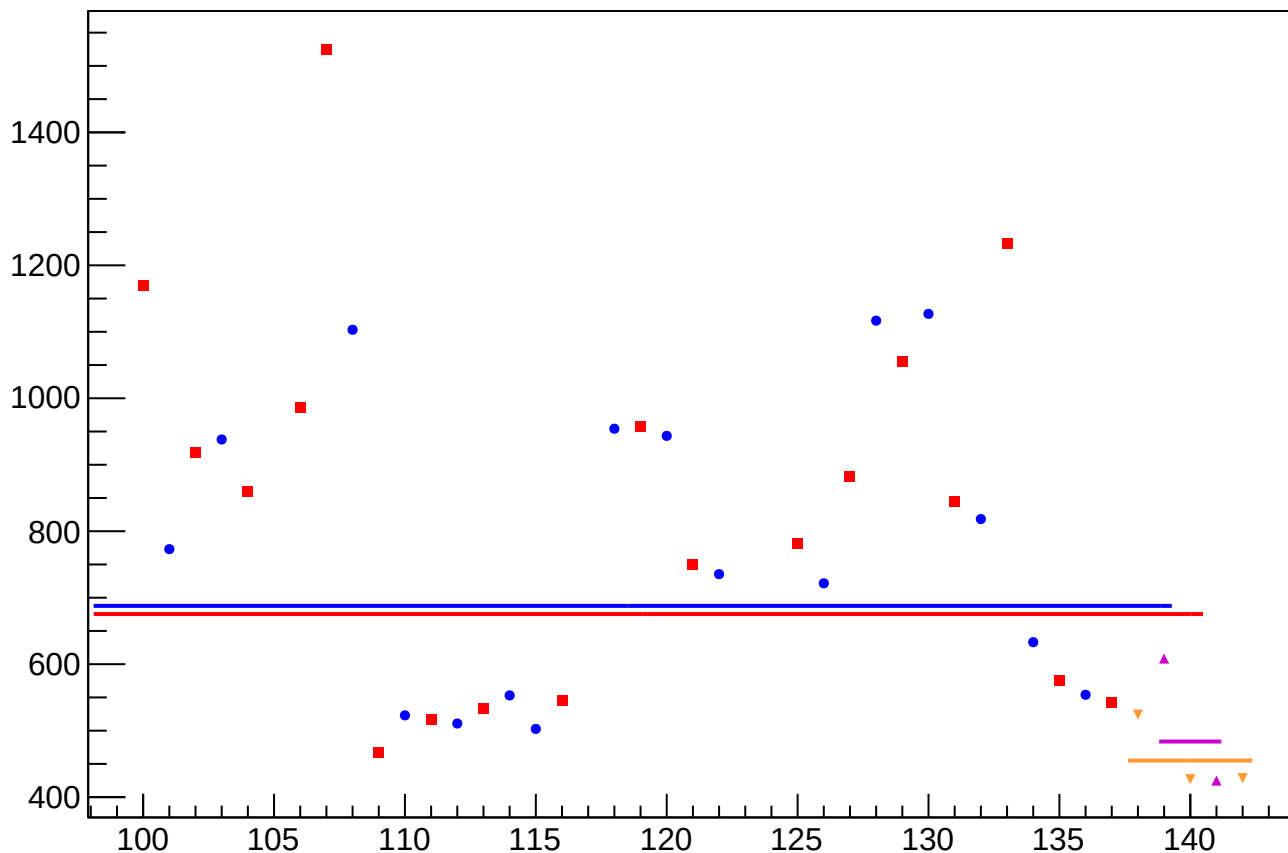
Right: 92.424 ± 187.229 $\chi^2/\text{NDF}: 40.8/33$

In: -148.258 ± 217.200 $\chi^2/\text{NDF}: 27.4/17$

Out: 322.817 ± 203.257 $\chi^2/\text{NDF}: 21.0/20$

All: 102.884 ± 148.409 $\chi^2/\text{NDF}: 51.0/38$

asym_us_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 687.717+/-0.189 χ^2/NDF : 1031906.6/15

Left Out: 454.993+/-0.227 χ^2/NDF : 37078.0/2

Right Out: 675.410+/-0.186 χ^2/NDF : 1313004.6/17

Left In: 483.631+/-0.265 χ^2/NDF : 104671.5/1

Left: 467.106+/-0.172 χ^2/NDF : 148505.5/4

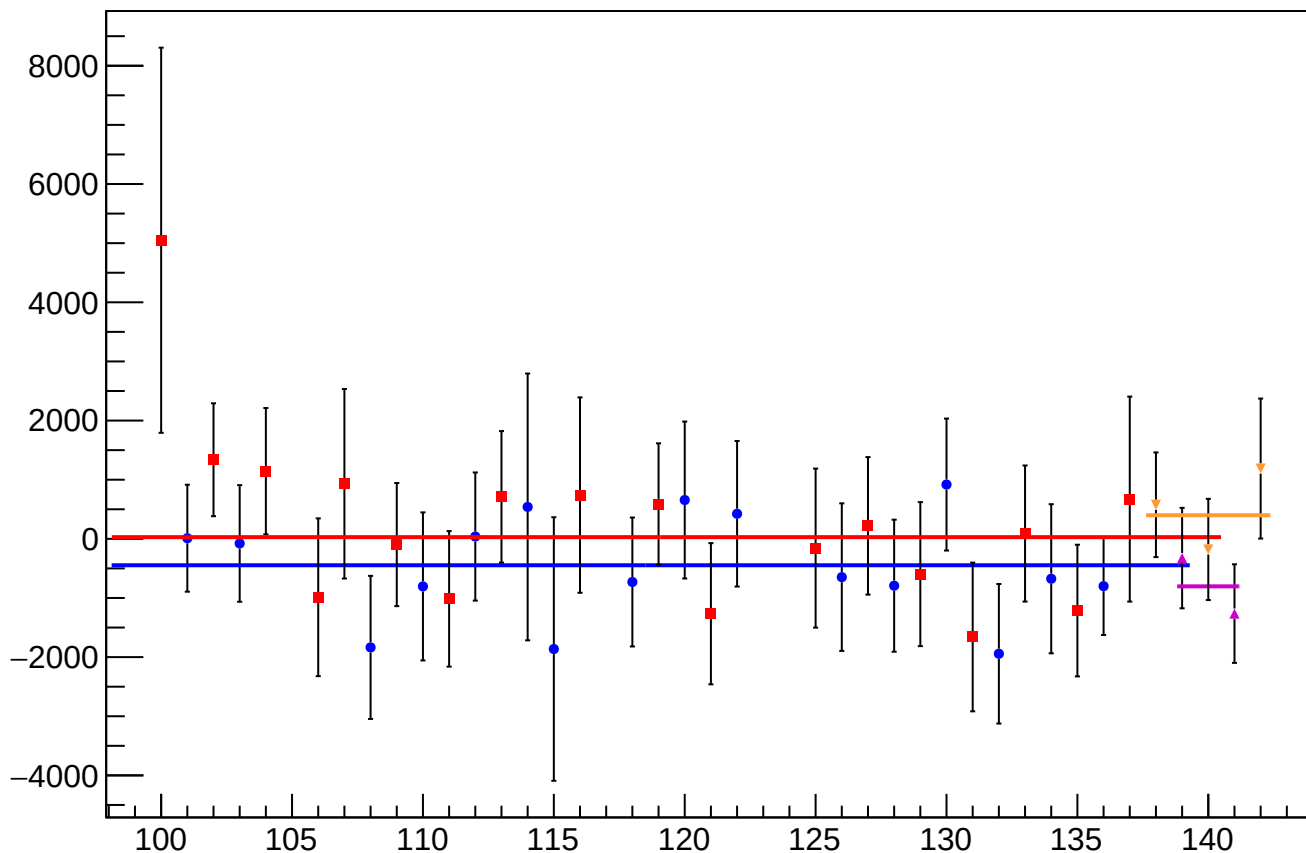
Right: 681.475+/-0.132 χ^2/NDF : 2347071.2/33

In: 618.991+/-0.154 χ^2/NDF : 1530964.2/17

Out: 586.737+/-0.144 χ^2/NDF : 1915620.6/20

All: 601.795+/-0.105 χ^2/NDF : 3470098.6/38

dit_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -446.659 ± 289.238 χ^2/NDF : 7.3/15

Left Out: 399.084 ± 545.893 χ^2/NDF : 0.9/2

Right Out: 28.787 ± 288.372 χ^2/NDF : 12.6/17

Left In: -803.349 ± 594.881 χ^2/NDF : 0.6/1

Left: -150.592 ± 402.210 χ^2/NDF : 3.8/4

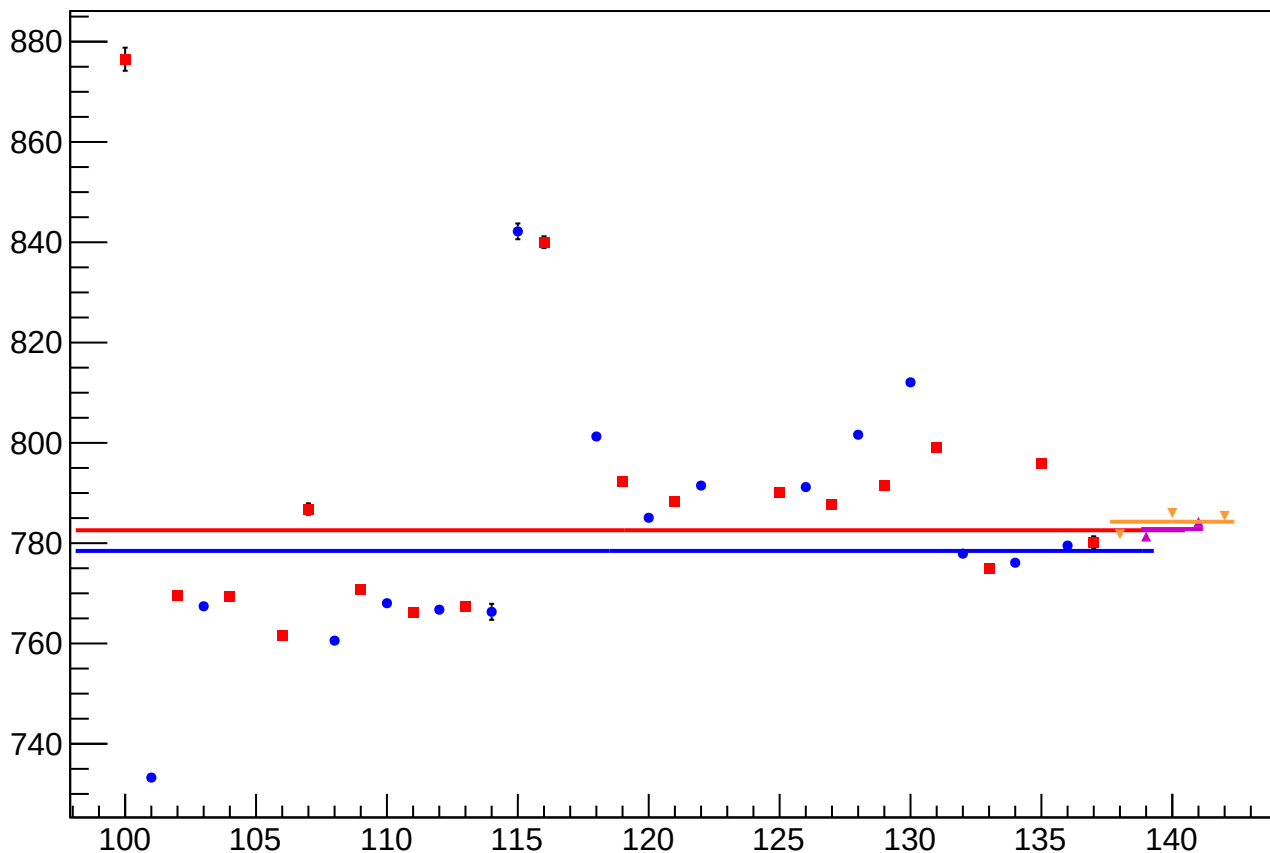
Right: -208.223 ± 204.216 χ^2/NDF : 21.3/33

In: -514.858 ± 260.121 χ^2/NDF : 8.2/17

Out: 109.576 ± 254.982 χ^2/NDF : 13.9/20

All: -196.411 ± 182.089 χ^2/NDF : 25.1/38

dit_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 778.456 ± 0.205 $\chi^2/\text{NDF}: 11795.2/15$

Left Out: 784.280 ± 0.386 $\chi^2/\text{NDF}: 26.1/2$

Right Out: 782.575 ± 0.204 $\chi^2/\text{NDF}: 7481.4/17$

Left In: 782.821 ± 0.421 $\chi^2/\text{NDF}: 12.1/1$

Left: 783.613 ± 0.284 $\chi^2/\text{NDF}: 44.7/4$

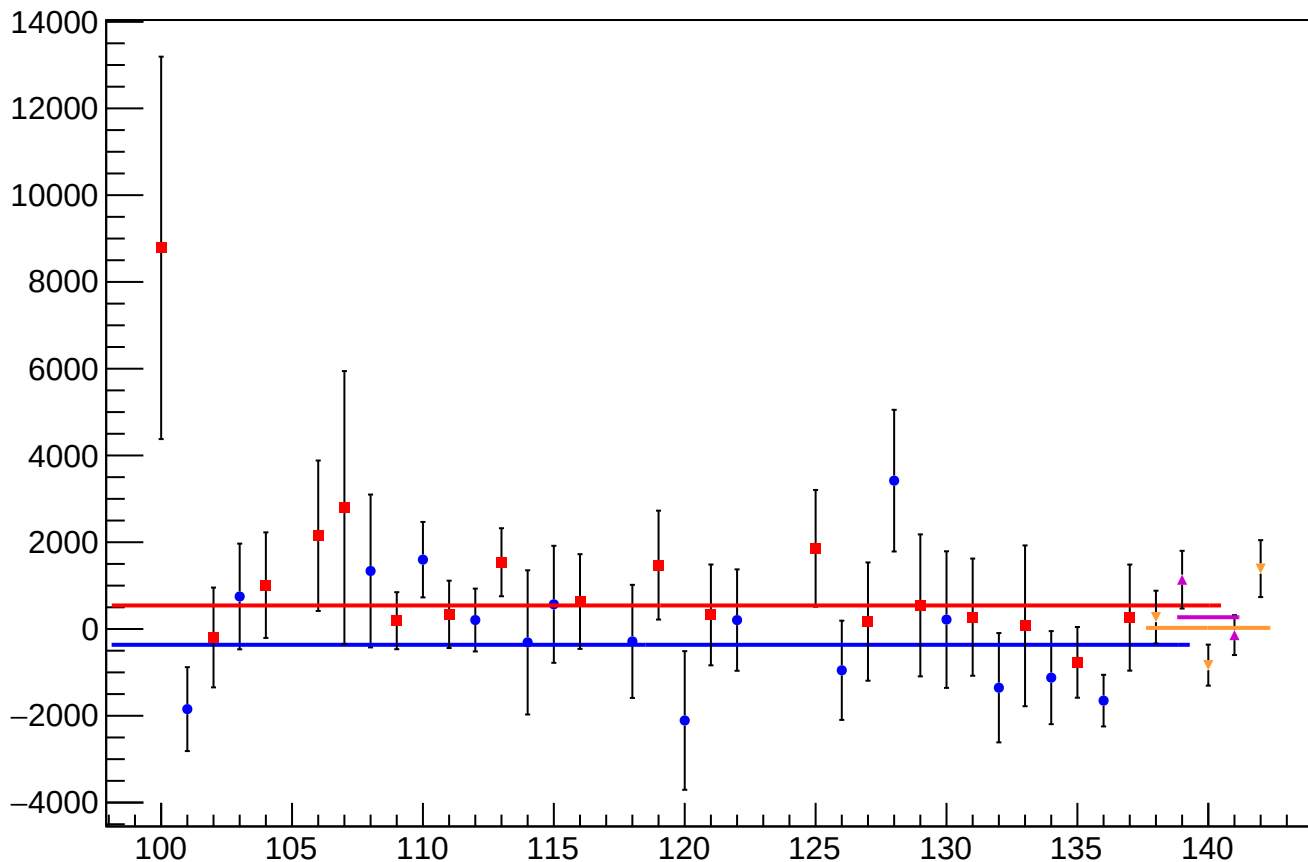
Right: 780.522 ± 0.144 $\chi^2/\text{NDF}: 19480.1/33$

In: 779.290 ± 0.184 $\chi^2/\text{NDF}: 11894.5/17$

Out: 782.947 ± 0.180 $\chi^2/\text{NDF}: 7522.7/20$

All: 781.155 ± 0.129 $\chi^2/\text{NDF}: 19618.8/38$

asym_us_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -363.977+/-269.316 χ^2/NDF : 23.3/15

Left Out: 26.152+/-324.489 χ^2/NDF : 7.8/2

Right Out: 542.879+/-265.273 χ^2/NDF : 11.8/17

Left In: 271.447+/-377.901 χ^2/NDF : 2.5/1

Left: 130.254+/-246.186 χ^2/NDF : 10.5/4

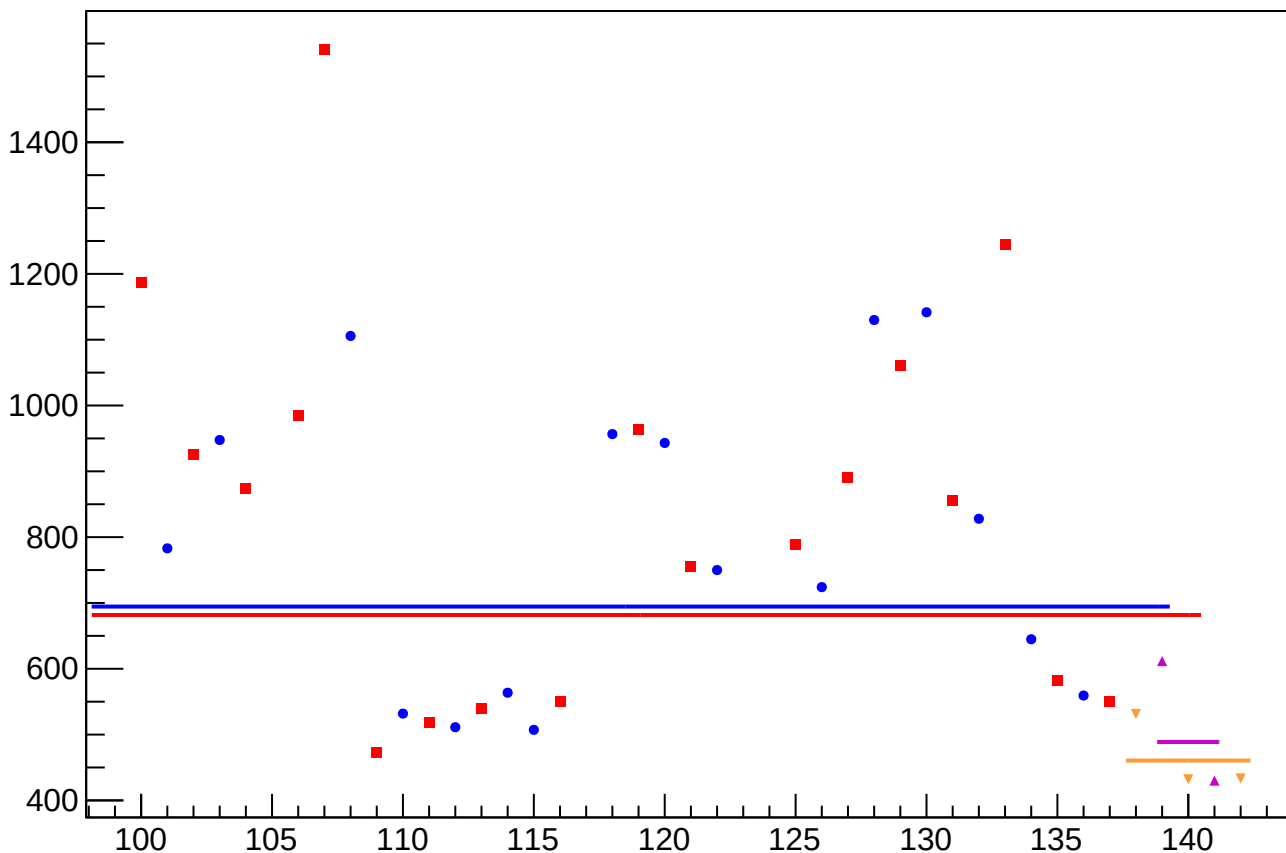
Right: 96.308+/-188.989 χ^2/NDF : 40.8/33

In: -149.954+/-219.320 χ^2/NDF : 27.7/17

Out: 335.880+/-205.378 χ^2/NDF : 21.1/20

All: 108.895+/-149.911 χ^2/NDF : 51.4/38

asym_us_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 694.522 $\pm$ 0.190 χ^2 /NDF: 1029884.9/15

Left Out: 460.605 $\pm$ 0.229 χ^2 /NDF: 37704.6/2

Right Out: 681.744 $\pm$ 0.188 χ^2 /NDF: 1311322.6/17

Left In: 488.732 $\pm$ 0.267 χ^2 /NDF: 100980.9/1

Left: 472.542 $\pm$ 0.174 χ^2 /NDF: 145063.3/4

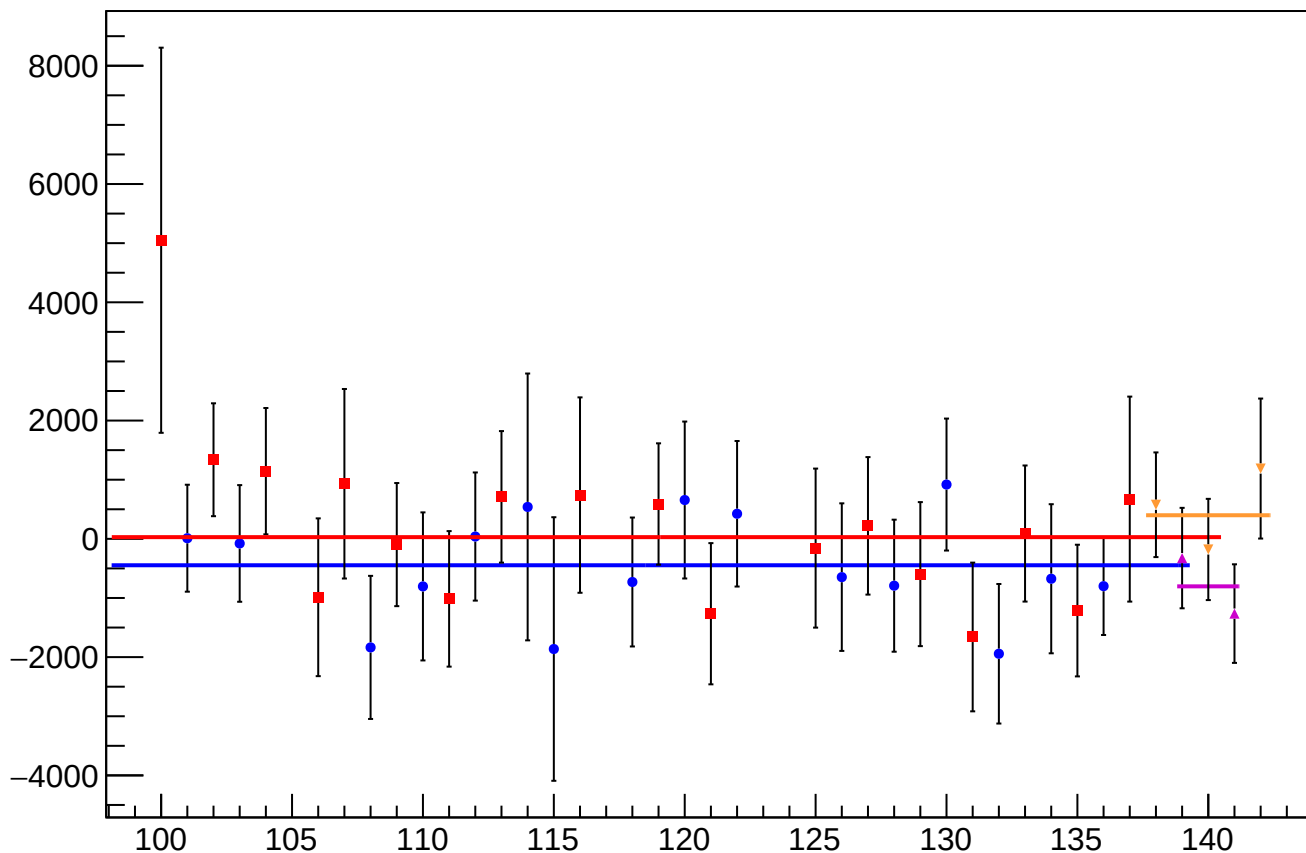
Right: 688.036 $\pm$ 0.134 χ^2 /NDF: 2343492.9/33

In: 625.208 $\pm$ 0.155 χ^2 /NDF: 1524192.0/17

Out: 593.156 $\pm$ 0.145 χ^2 /NDF: 1905803.7/20

All: 608.131 $\pm$ 0.106 χ^2 /NDF: 3452754.2/38

eigen_dit_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -446.659+/-289.238 χ^2/NDF : 7.3/15

Left Out: 399.084+/-545.893 χ^2/NDF : 0.9/2

Right Out: 28.786+/-288.372 χ^2/NDF : 12.6/17

Left In: -803.344+/-594.881 χ^2/NDF : 0.6/1

Left: -150.590+/-402.210 χ^2/NDF : 3.8/4

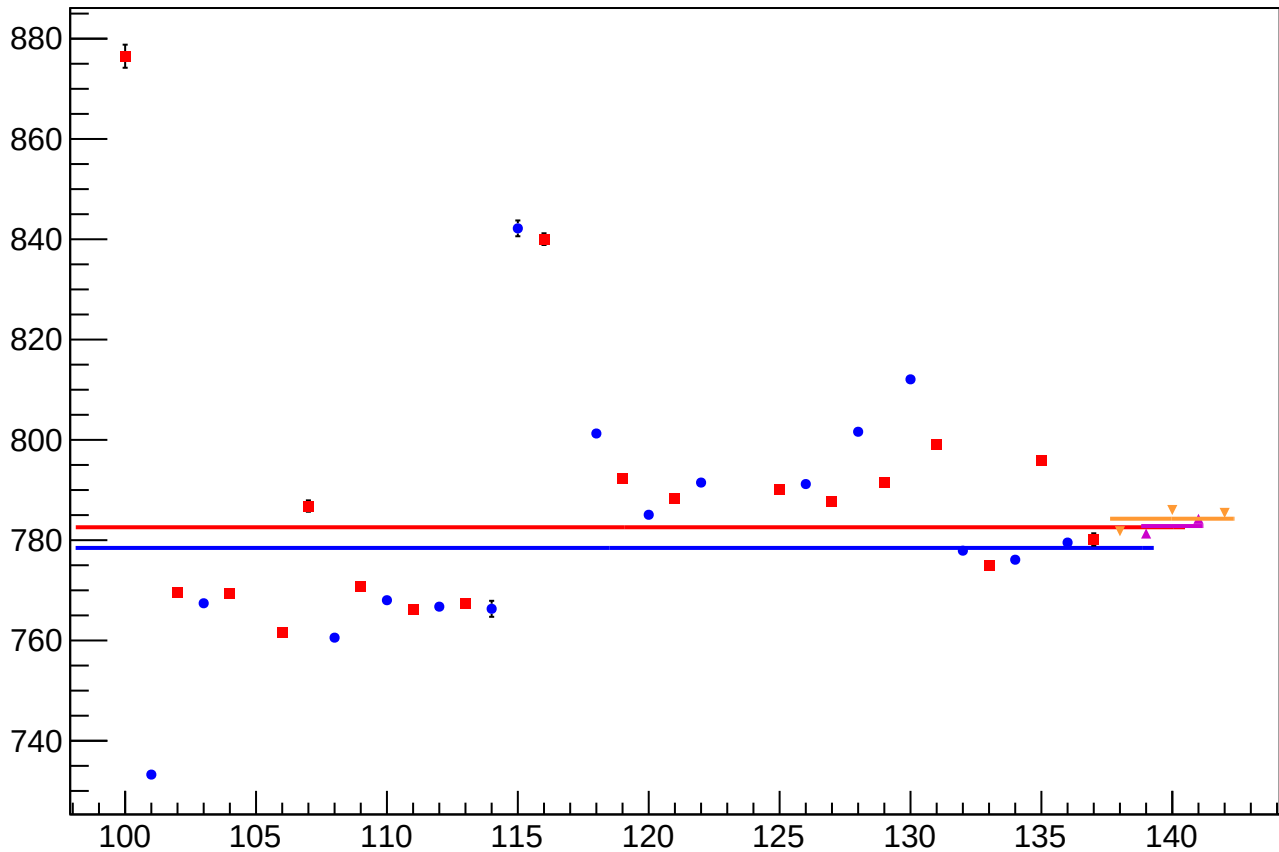
Right: -208.224+/-204.216 χ^2/NDF : 21.3/33

In: -514.858+/-260.121 χ^2/NDF : 8.2/17

Out: 109.575+/-254.982 χ^2/NDF : 13.9/20

All: -196.411+/-182.089 χ^2/NDF : 25.1/38

eigen_dit_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 778.456+/-0.205 χ^2/NDF : 11795.2/15

Left Out: 784.280+/-0.386 χ^2/NDF : 26.1/2

Right Out: 782.575+/-0.204 χ^2/NDF : 7481.4/17

Left In: 782.821+/-0.421 χ^2/NDF : 12.1/1

Left: 783.613+/-0.284 χ^2/NDF : 44.7/4

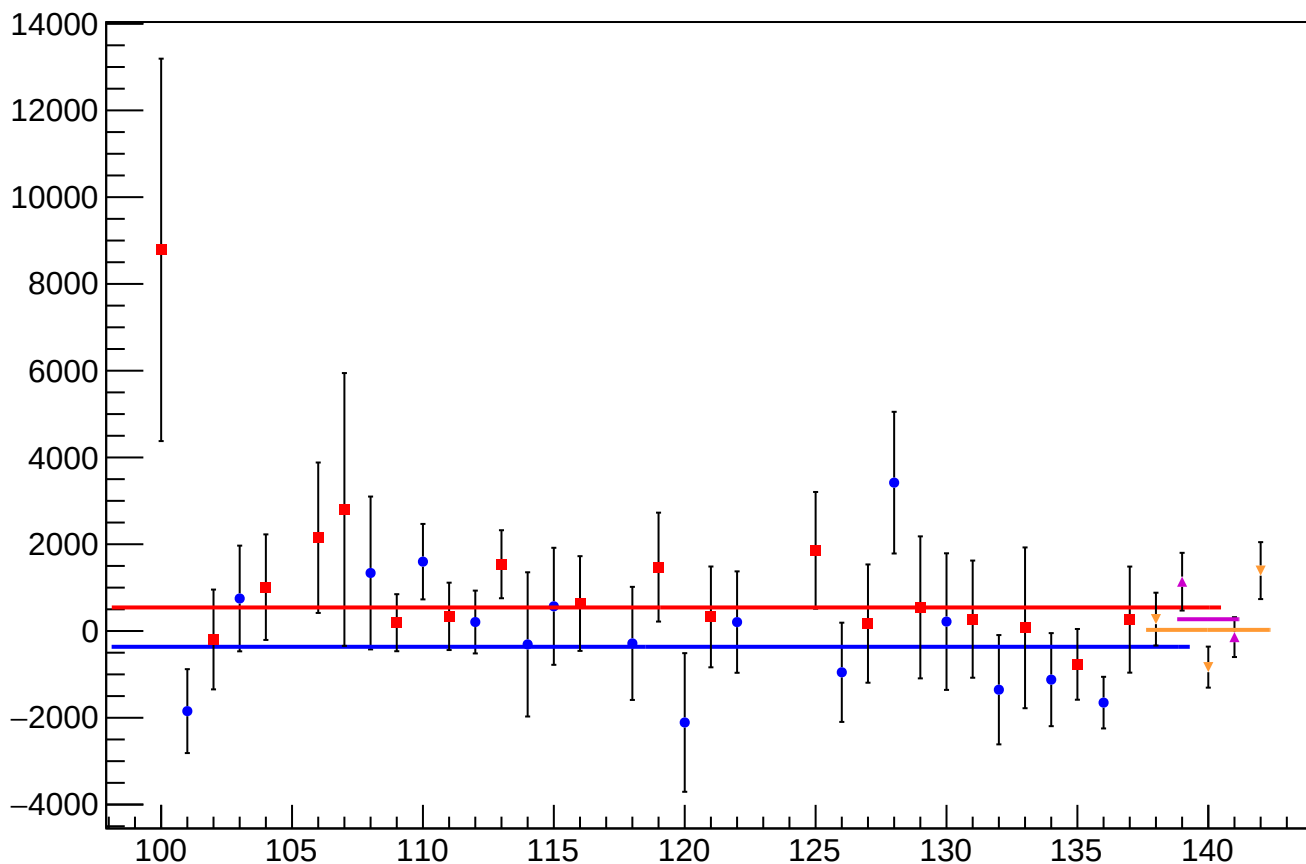
Right: 780.522+/-0.144 χ^2/NDF : 19480.0/33

In: 779.290+/-0.184 χ^2/NDF : 11894.4/17

Out: 782.947+/-0.180 χ^2/NDF : 7522.7/20

All: 781.155+/-0.129 χ^2/NDF : 19618.7/38

asym_us_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -363.973+/-269.314 χ^2/NDF : 23.3/15

Left Out: 26.150+/-324.489 χ^2/NDF : 7.8/2

Right Out: 542.878+/-265.272 χ^2/NDF : 11.8/17

Left In: 271.443+/-377.901 χ^2/NDF : 2.5/1

Left: 130.251+/-246.186 χ^2/NDF : 10.5/4

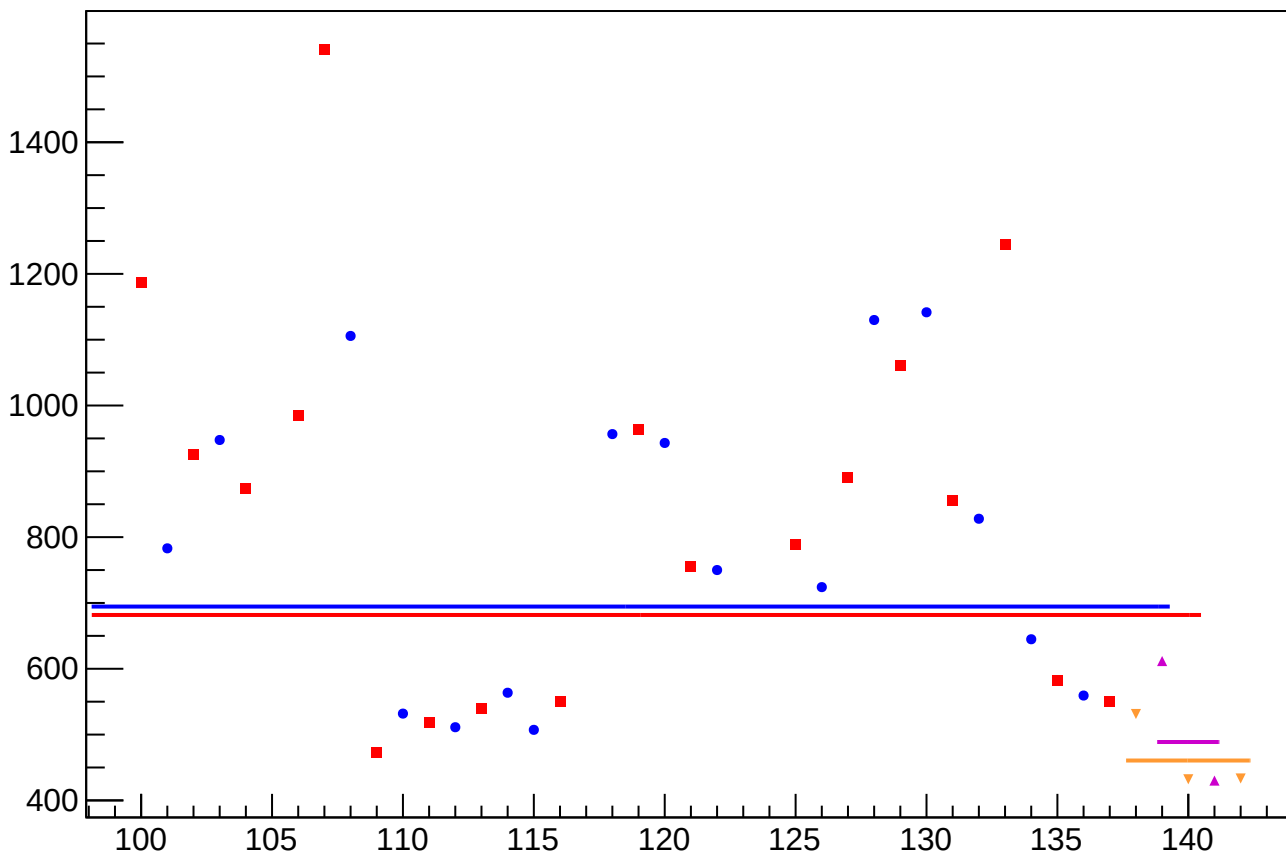
Right: 96.309+/-188.989 χ^2/NDF : 40.8/33

In: -149.953+/-219.319 χ^2/NDF : 27.7/17

Out: 335.879+/-205.377 χ^2/NDF : 21.1/20

All: 108.895+/-149.910 χ^2/NDF : 51.4/38

asym_us_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 694.519+/-0.190 χ^2/NDF : 1029897.1/15

Left Out: 460.604+/-0.229 χ^2/NDF : 37709.1/2

Right Out: 681.740+/-0.188 χ^2/NDF : 1311342.6/17

Left In: 488.732+/-0.267 χ^2/NDF : 100987.6/1

Left: 472.541+/-0.174 χ^2/NDF : 145074.6/4

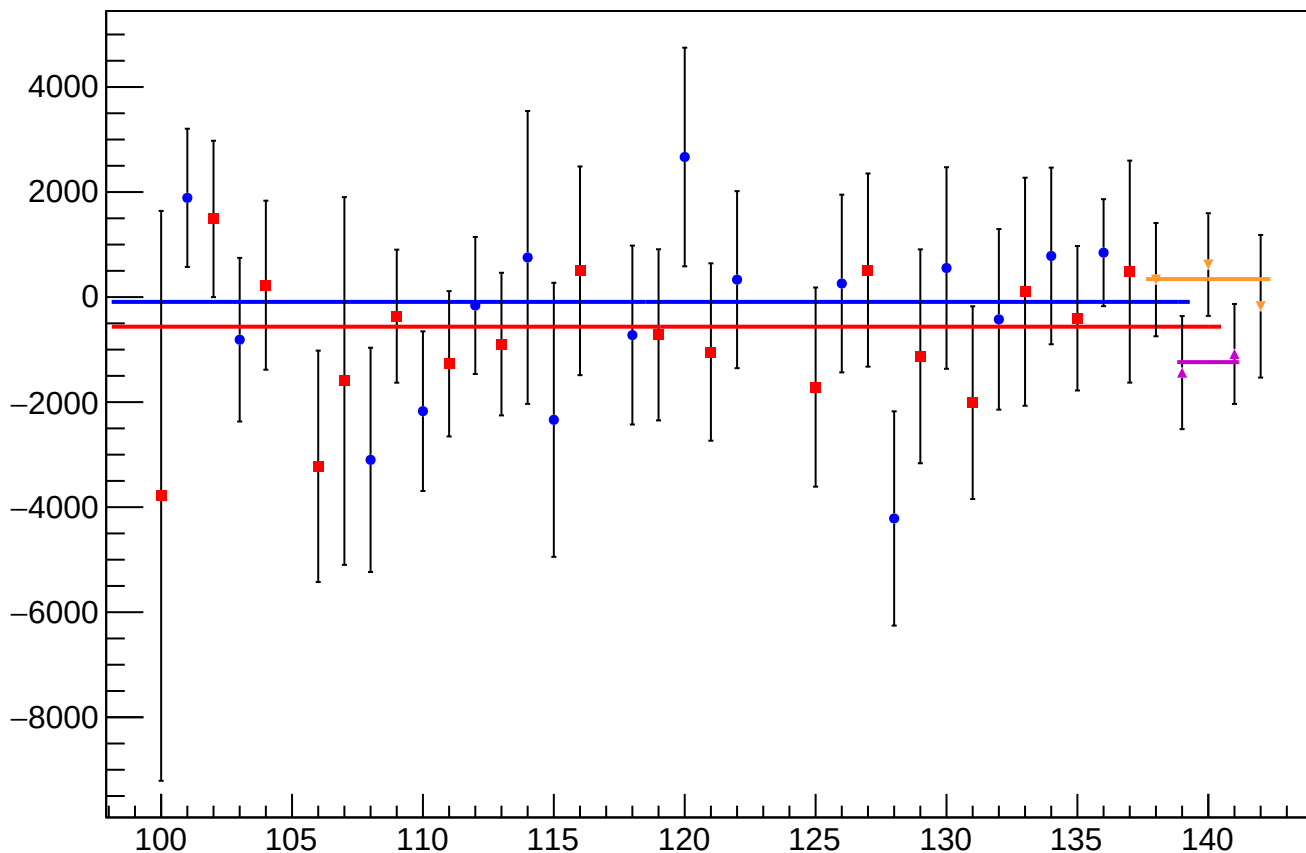
Right: 688.033+/-0.134 χ^2/NDF : 2343525.0/33

In: 625.206+/-0.155 χ^2/NDF : 1524200.7/17

Out: 593.154+/-0.145 χ^2/NDF : 1905817.3/20

All: 608.129+/-0.106 χ^2/NDF : 3452776.2/38

asym_us_dd_mean vs Slug, Sign Corrected



Right In: -91.305 ± 409.957 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 342.910 ± 639.209 $\chi^2/\text{NDF}: 0.2/2$

Right Out: -563.292 ± 411.565 $\chi^2/\text{NDF}: 6.5/17$

Left In: -1238.179 ± 713.162 $\chi^2/\text{NDF}: 0.1/1$

Left: -361.433 ± 475.995 $\chi^2/\text{NDF}: 3.0/4$

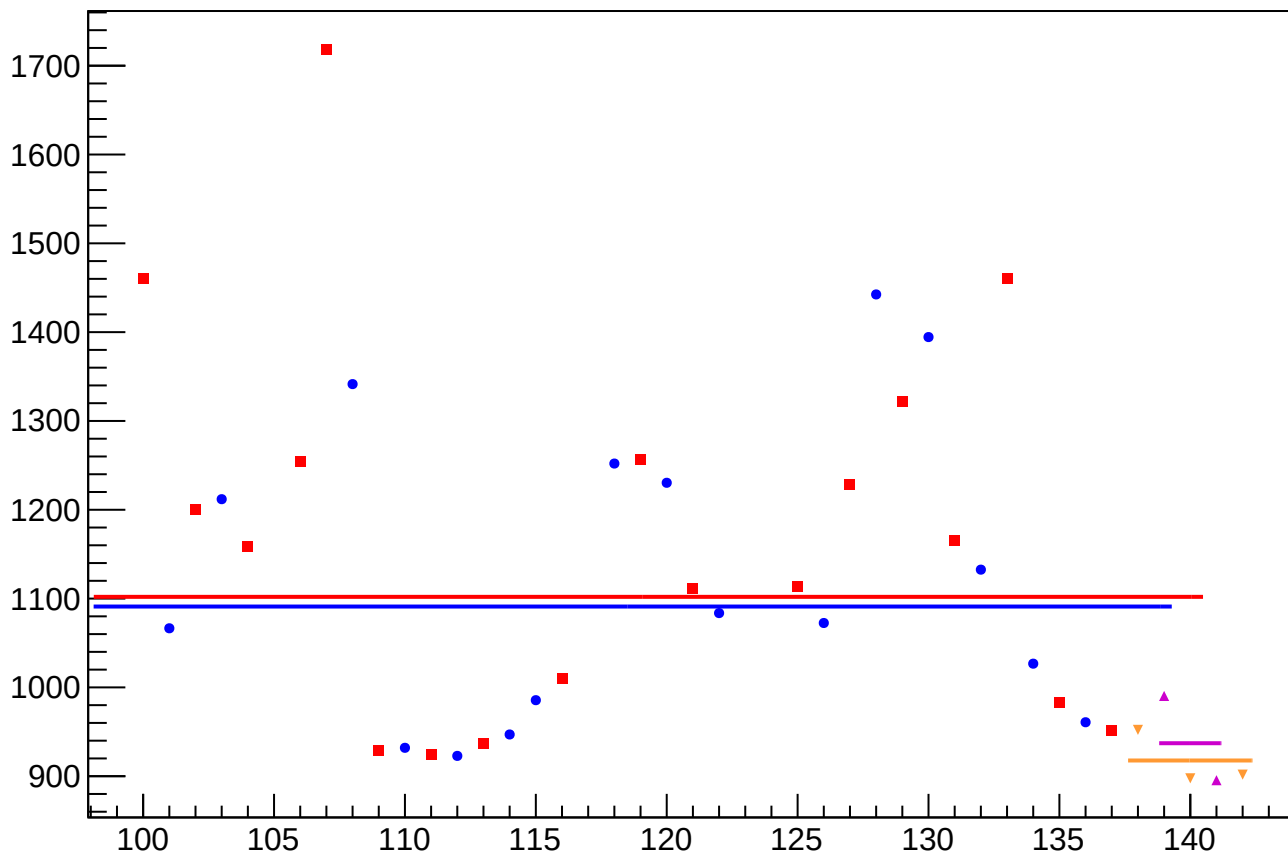
Right: -326.374 ± 290.450 $\chi^2/\text{NDF}: 21.7/33$

In: -376.156 ± 355.418 $\chi^2/\text{NDF}: 16.5/17$

Out: -297.713 ± 346.041 $\chi^2/\text{NDF}: 8.2/20$

All: -335.886 ± 247.937 $\chi^2/\text{NDF}: 24.7/38$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1091.041+/-0.290 χ^2/NDF : 277304.9/15

Left Out: 917.692+/-0.452 χ^2/NDF : 3160.2/2

Right Out: 1101.953+/-0.291 χ^2/NDF : 328107.6/17

Left In: 937.140+/-0.504 χ^2/NDF : 8716.9/1

Left: 926.355+/-0.337 χ^2/NDF : 12701.8/4

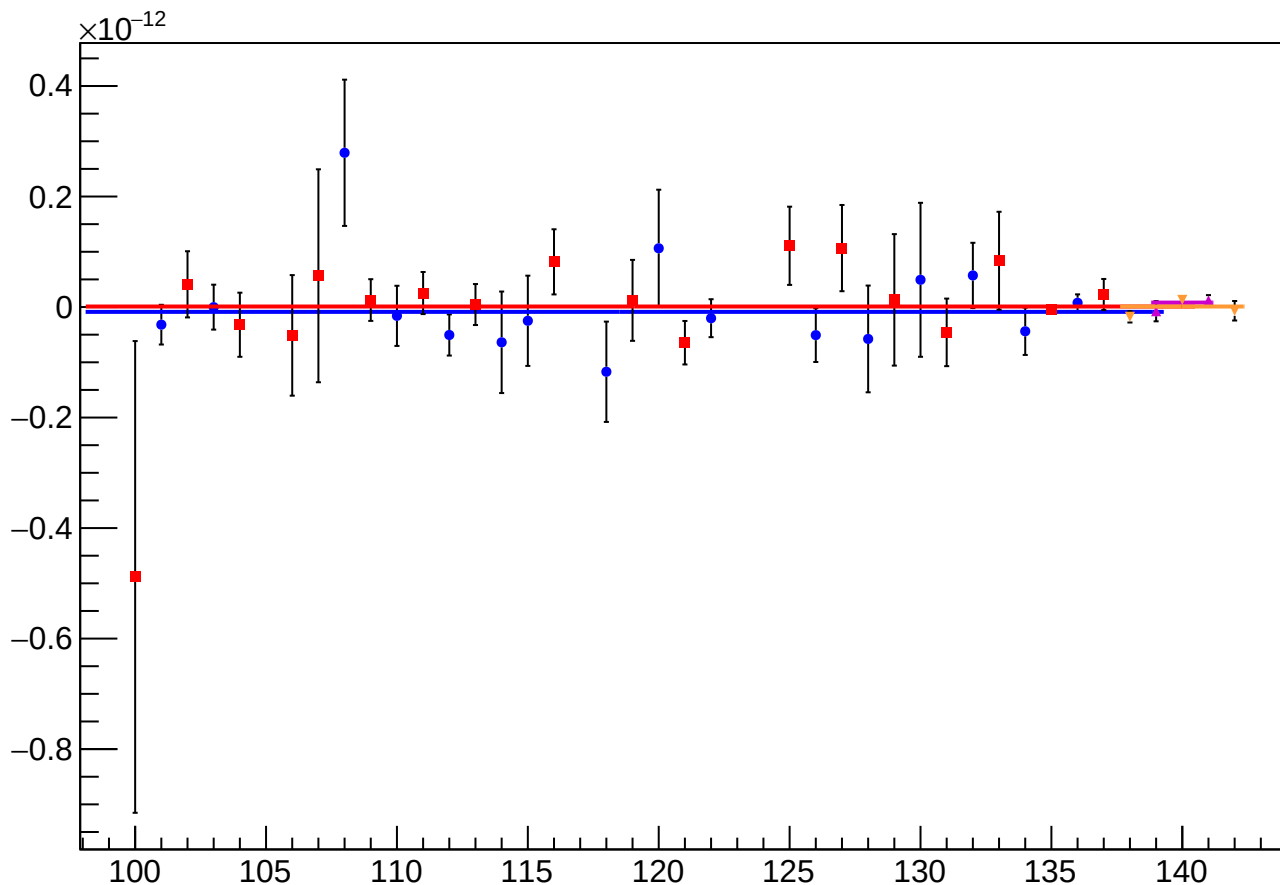
Right: 1096.476+/-0.205 χ^2/NDF : 606118.2/33

In: 1052.816+/-0.251 χ^2/NDF : 356028.5/17

Out: 1047.952+/-0.245 χ^2/NDF : 448754.7/20

All: 1050.319+/-0.175 χ^2/NDF : 804975.5/38

asym_us_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 13.8/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 5.9/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 14.3/17

Left In: 0.000 ± 0.000 χ^2/NDF : 0.9/1

Left: 0.000 ± 0.000 χ^2/NDF : 7.3/4

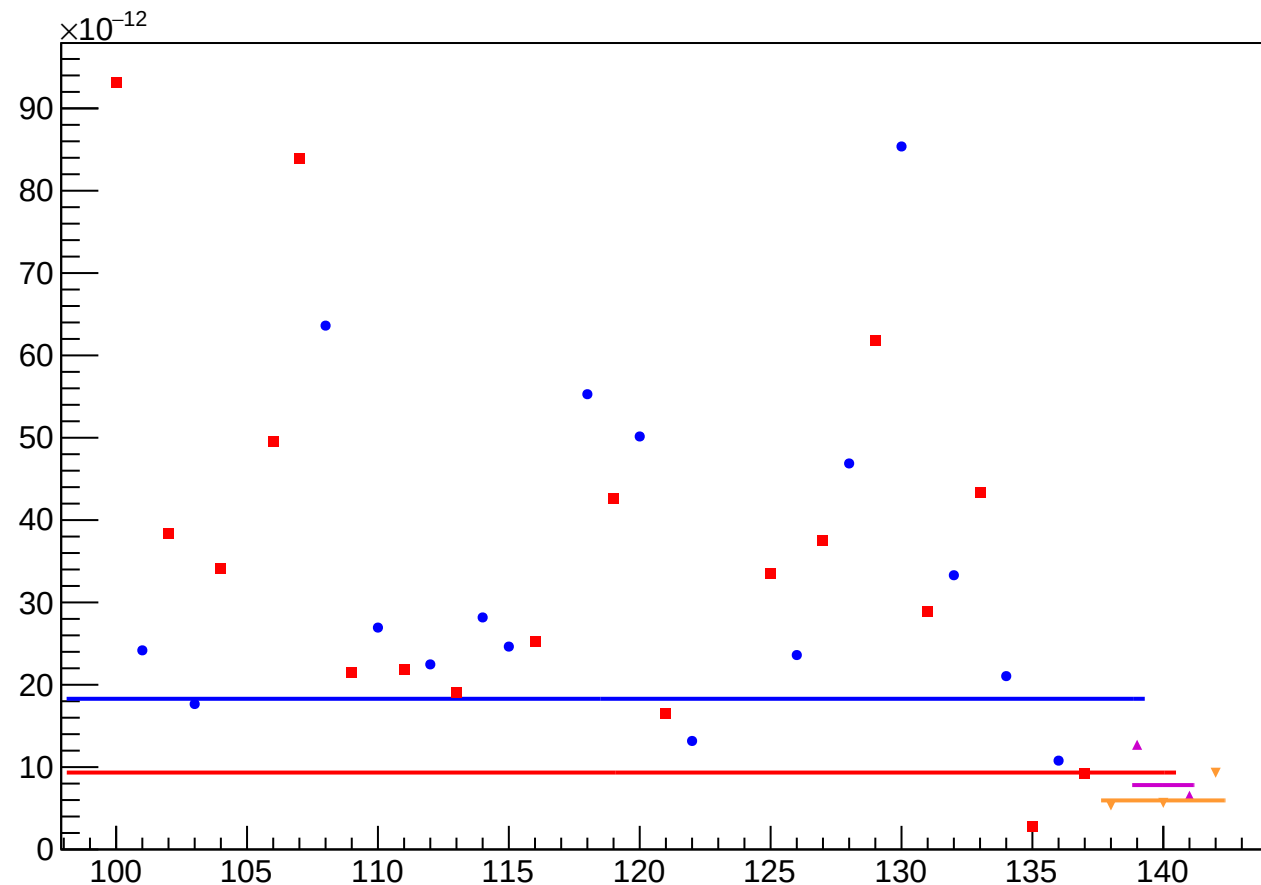
Right: -0.000 ± 0.000 χ^2/NDF : 28.8/33

In: 0.000 ± 0.000 χ^2/NDF : 16.4/17

Out: 0.000 ± 0.000 χ^2/NDF : 20.2/20

All: 0.000 ± 0.000 χ^2/NDF : 36.6/38

asym_us_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2242543.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :82491.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 5140446.0/17

Left In: 0.000+/-0.000 χ^2/NDF :181157.0/1

Left: 0.000+/-0.000 χ^2/NDF : 330606.4/4

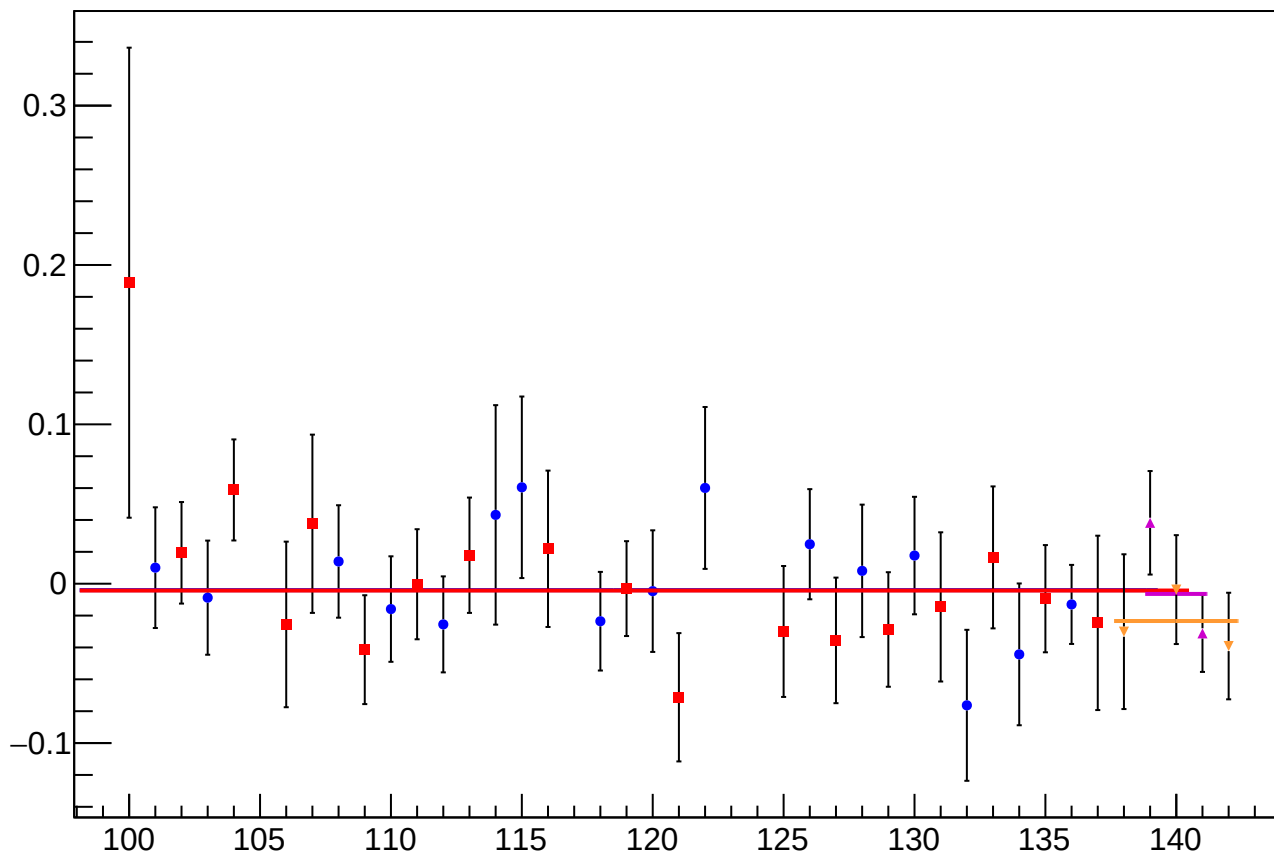
Right: 0.000+/-0.000 χ^2/NDF : 8399783.6/33

In: 0.000+/-0.000 χ^2/NDF :3681686.7/17

Out: 0.000+/-0.000 χ^2/NDF :5485918.6/20

All: 0.000+/-0.000 χ^2/NDF : 9882186.5/38

asym_us_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 ± 0.009 χ^2/NDF : 9.2/15

Left Out: -0.023 ± 0.021 χ^2/NDF : 0.6/2

Right Out: -0.004 ± 0.009 χ^2/NDF : 13.5/17

Left In: -0.006 ± 0.019 χ^2/NDF : 2.9/1

Left: -0.014 ± 0.014 χ^2/NDF : 3.9/4

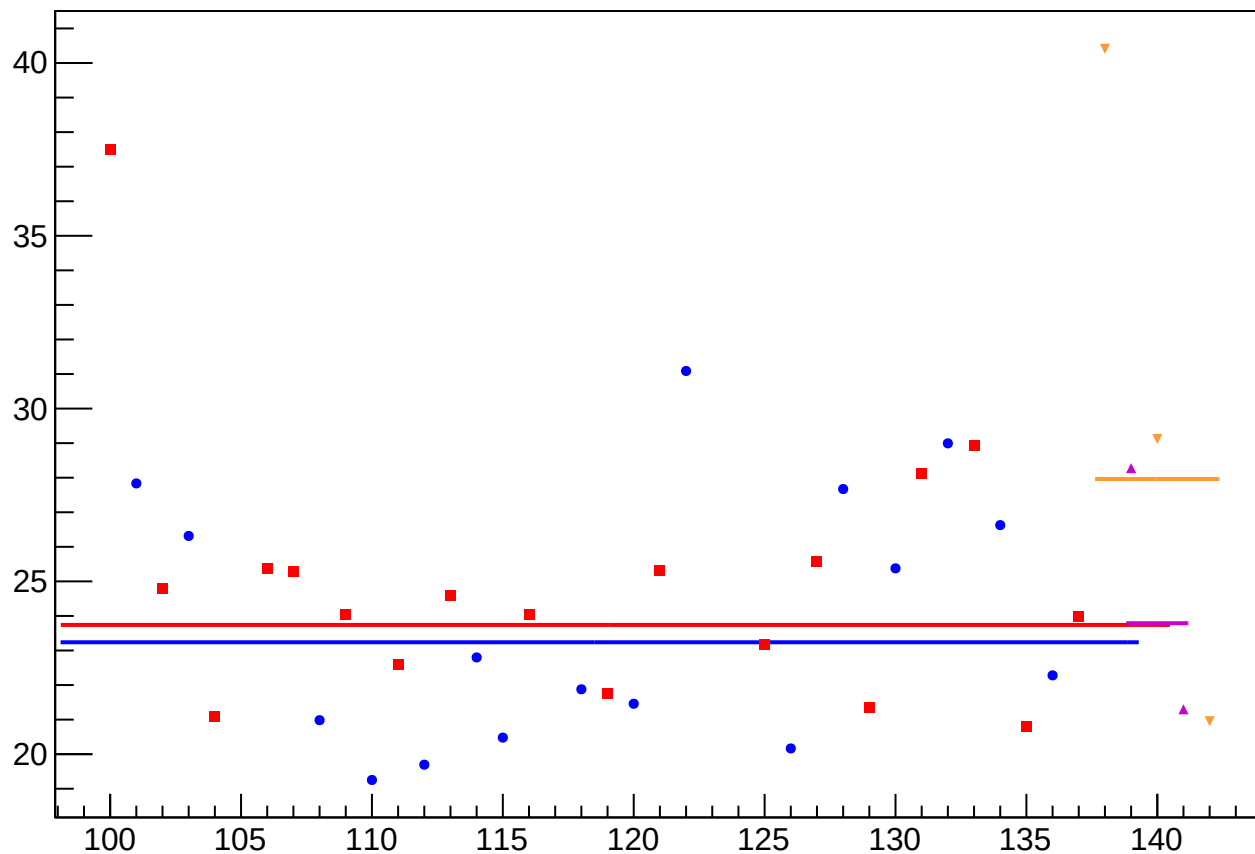
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: -0.004 ± 0.008 χ^2/NDF : 12.2/17

Out: -0.007 ± 0.009 χ^2/NDF : 14.7/20

All: -0.006 ± 0.006 χ^2/NDF : 26.9/38

asym_us_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.238 $\pm$ 0.007 χ^2 /NDF: 259235.5/15

Left Out: 27.962 $\pm$ 0.015 χ^2 /NDF:221582.8/2

Right Out: 23.740 $\pm$ 0.007 χ^2 /NDF: 126183.6/17

Left In: 23.789 $\pm$ 0.014 χ^2 /NDF:59390.4/1

Left: 25.668 $\pm$ 0.010 χ^2 /NDF: 322620.0/4

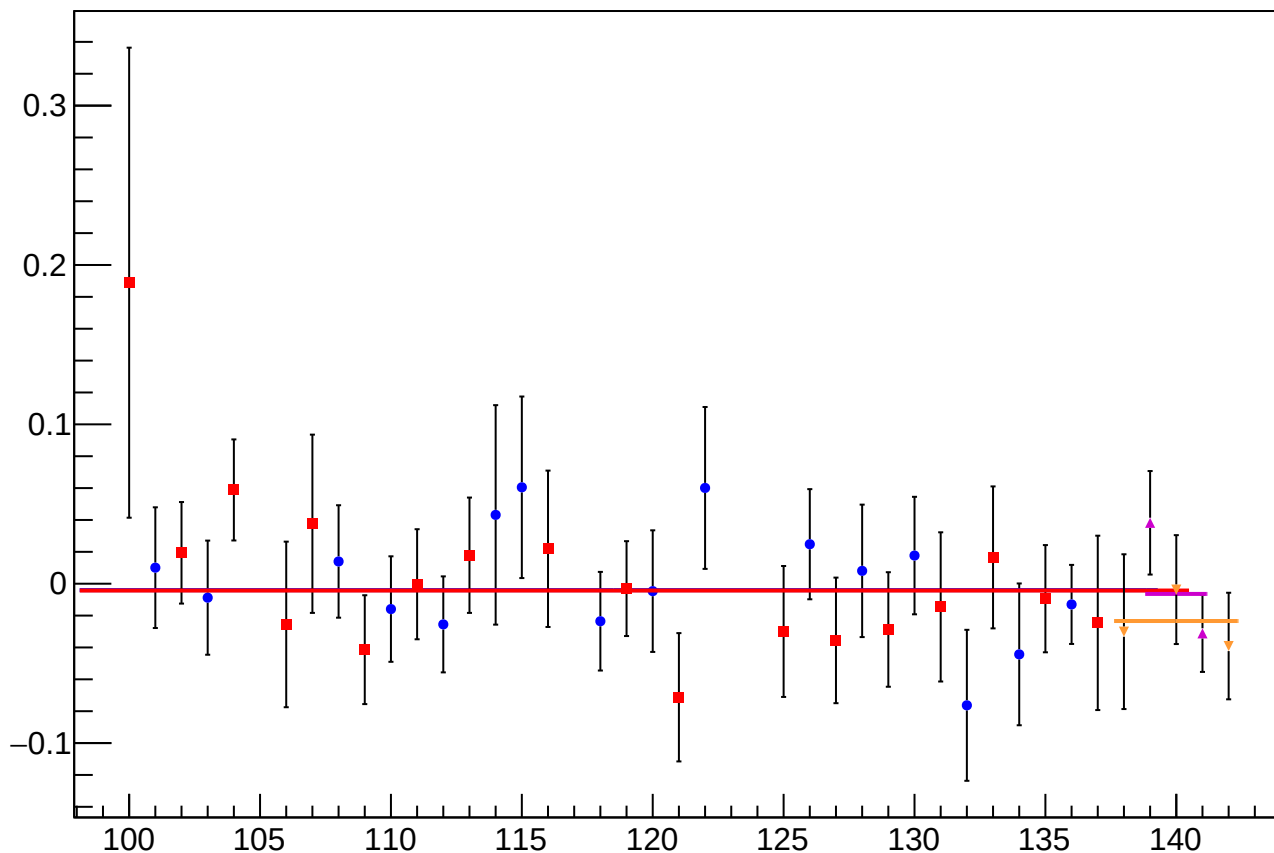
Right: 23.488 $\pm$ 0.005 χ^2 /NDF: 388343.8/33

In: 23.340 $\pm$ 0.006 χ^2 /NDF:319940.9/17

Out: 24.410 $\pm$ 0.006 χ^2 /NDF:412987.7/20

All: 23.864 $\pm$ 0.004 χ^2 /NDF: 748966.3/38

asym_us_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 ± 0.009 χ^2/NDF : 9.2/15

Left Out: -0.023 ± 0.021 χ^2/NDF : 0.6/2

Right Out: -0.004 ± 0.009 χ^2/NDF : 13.5/17

Left In: -0.006 ± 0.019 χ^2/NDF : 2.9/1

Left: -0.014 ± 0.014 χ^2/NDF : 3.9/4

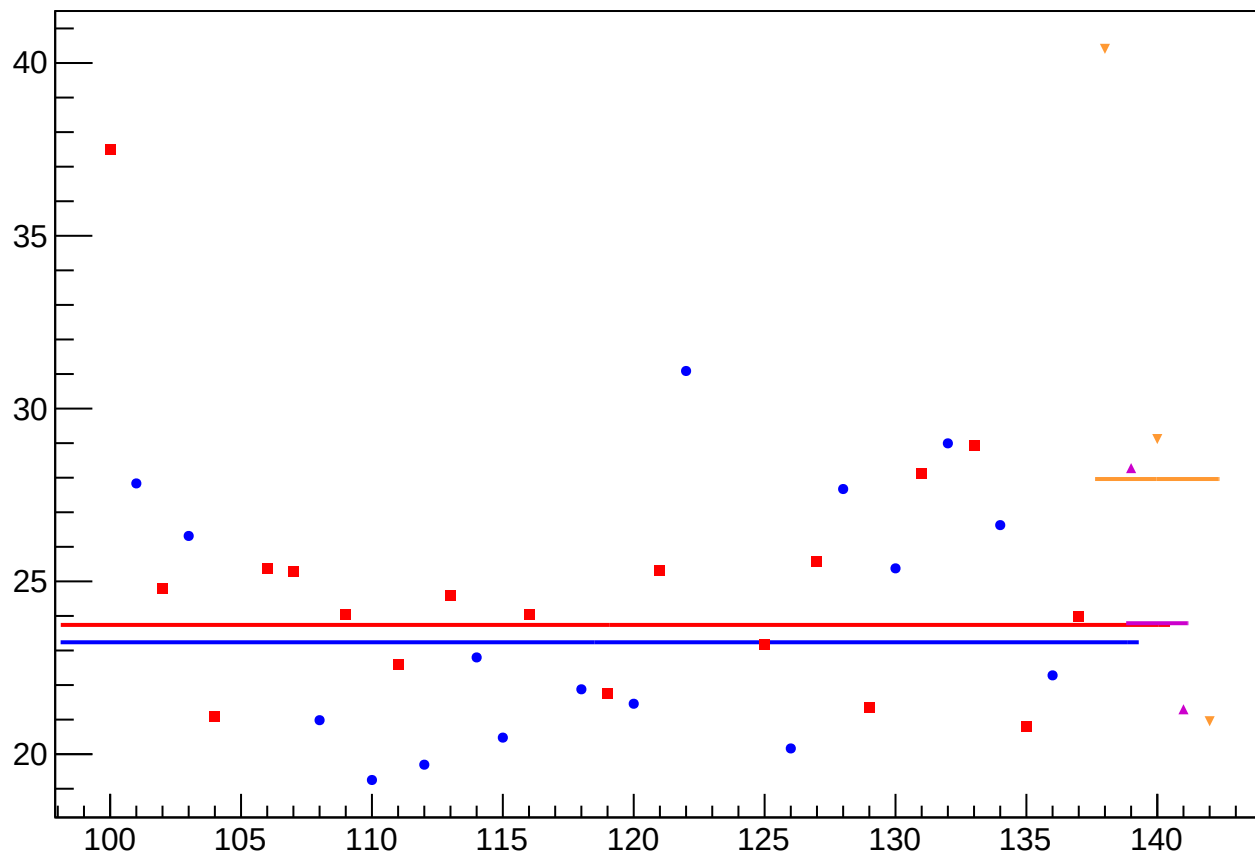
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: -0.004 ± 0.008 χ^2/NDF : 12.2/17

Out: -0.007 ± 0.009 χ^2/NDF : 14.7/20

All: -0.006 ± 0.006 χ^2/NDF : 26.9/38

asym_us_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.238 $\pm$ 0.007 χ^2 /NDF: 259235.5/15

Left Out: 27.962 $\pm$ 0.015 χ^2 /NDF:221582.8/2

Right Out: 23.740 $\pm$ 0.007 χ^2 /NDF: 126183.6/17

Left In: 23.789 $\pm$ 0.014 χ^2 /NDF:59390.4/1

Left: 25.668 $\pm$ 0.010 χ^2 /NDF: 322620.0/4

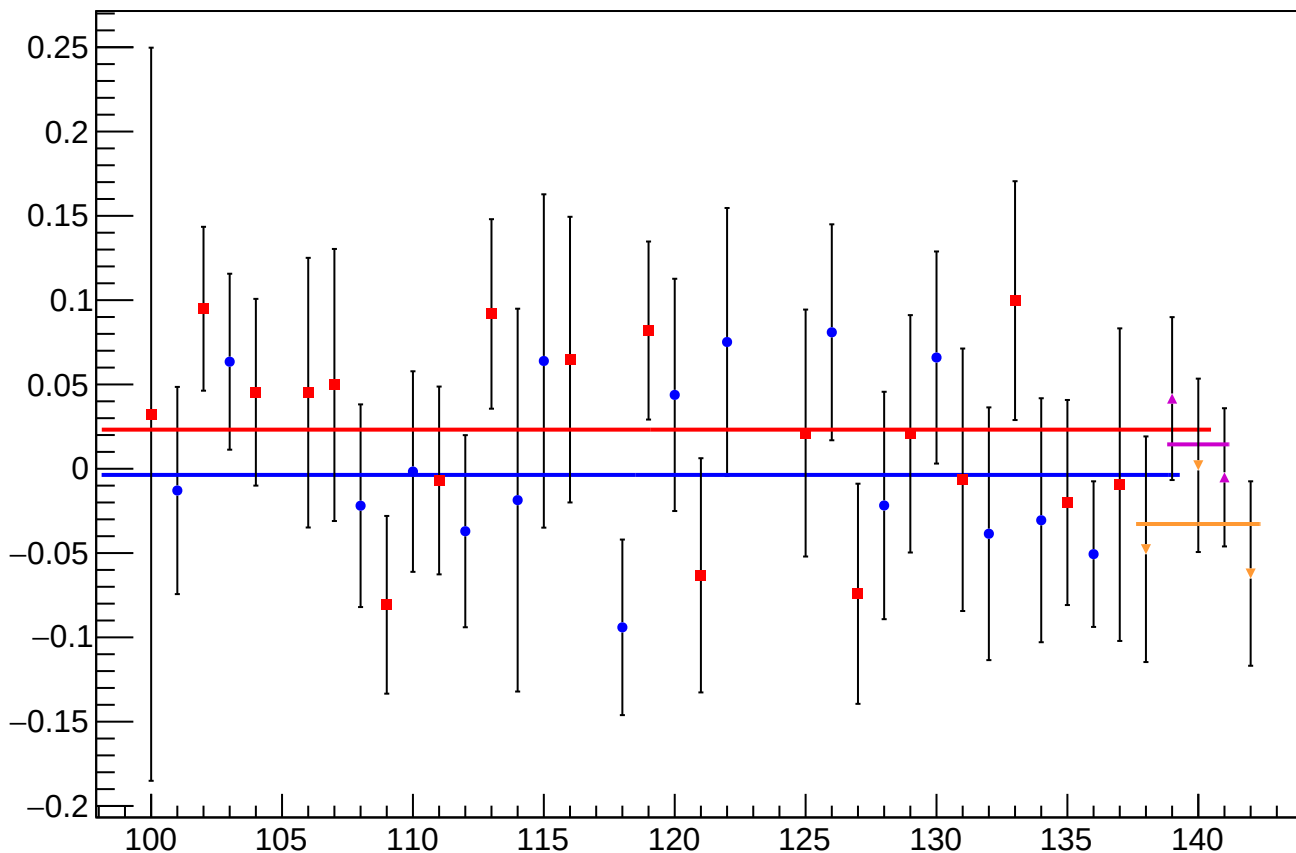
Right: 23.488 $\pm$ 0.005 χ^2 /NDF: 388343.8/33

In: 23.340 $\pm$ 0.006 χ^2 /NDF:319940.9/17

Out: 24.410 $\pm$ 0.006 χ^2 /NDF:412987.7/20

All: 23.864 $\pm$ 0.004 χ^2 /NDF: 748966.3/38

asym_us_dd_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 ± 0.016 $\chi^2/\text{NDF}: 11.7/15$

Left Out: -0.033 ± 0.033 $\chi^2/\text{NDF}: 0.8/2$

Right Out: 0.023 ± 0.016 $\chi^2/\text{NDF}: 15.4/17$

Left In: 0.014 ± 0.031 $\chi^2/\text{NDF}: 0.5/1$

Left: -0.008 ± 0.023 $\chi^2/\text{NDF}: 2.4/4$

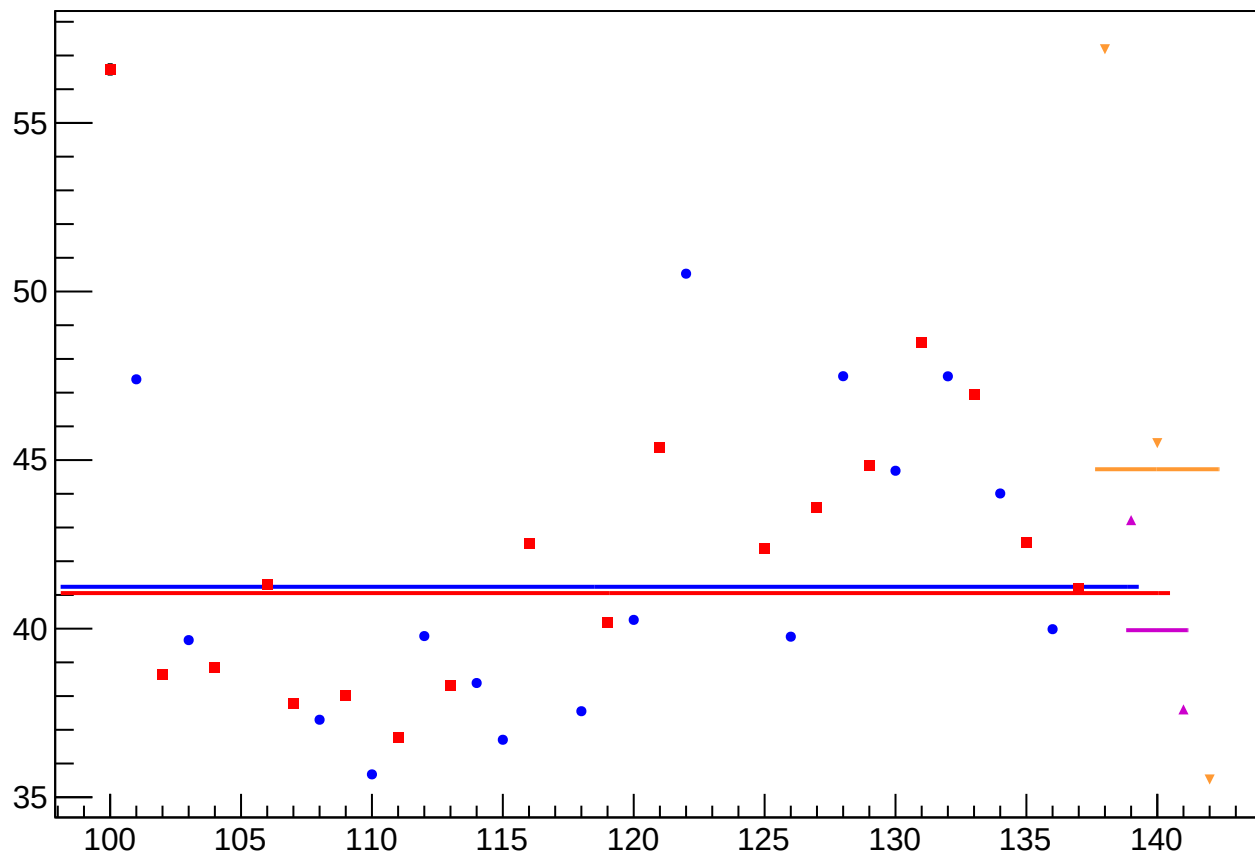
Right: 0.010 ± 0.011 $\chi^2/\text{NDF}: 28.5/33$

In: 0.000 ± 0.014 $\chi^2/\text{NDF}: 12.5/17$

Out: 0.013 ± 0.014 $\chi^2/\text{NDF}: 18.6/20$

All: 0.006 ± 0.010 $\chi^2/\text{NDF}: 31.5/38$

asym_us_dd_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.242 $\pm$ 0.011 χ^2 /NDF: 135279.1/15

Left Out: 44.728 $\pm$ 0.023 χ^2 /NDF:126376.6/2

Right Out: 41.055 $\pm$ 0.011 χ^2 /NDF: 96560.6/17

Left In: 39.955 $\pm$ 0.022 χ^2 /NDF:15707.6/1

Left: 42.234 $\pm$ 0.016 χ^2 /NDF: 164366.6/4

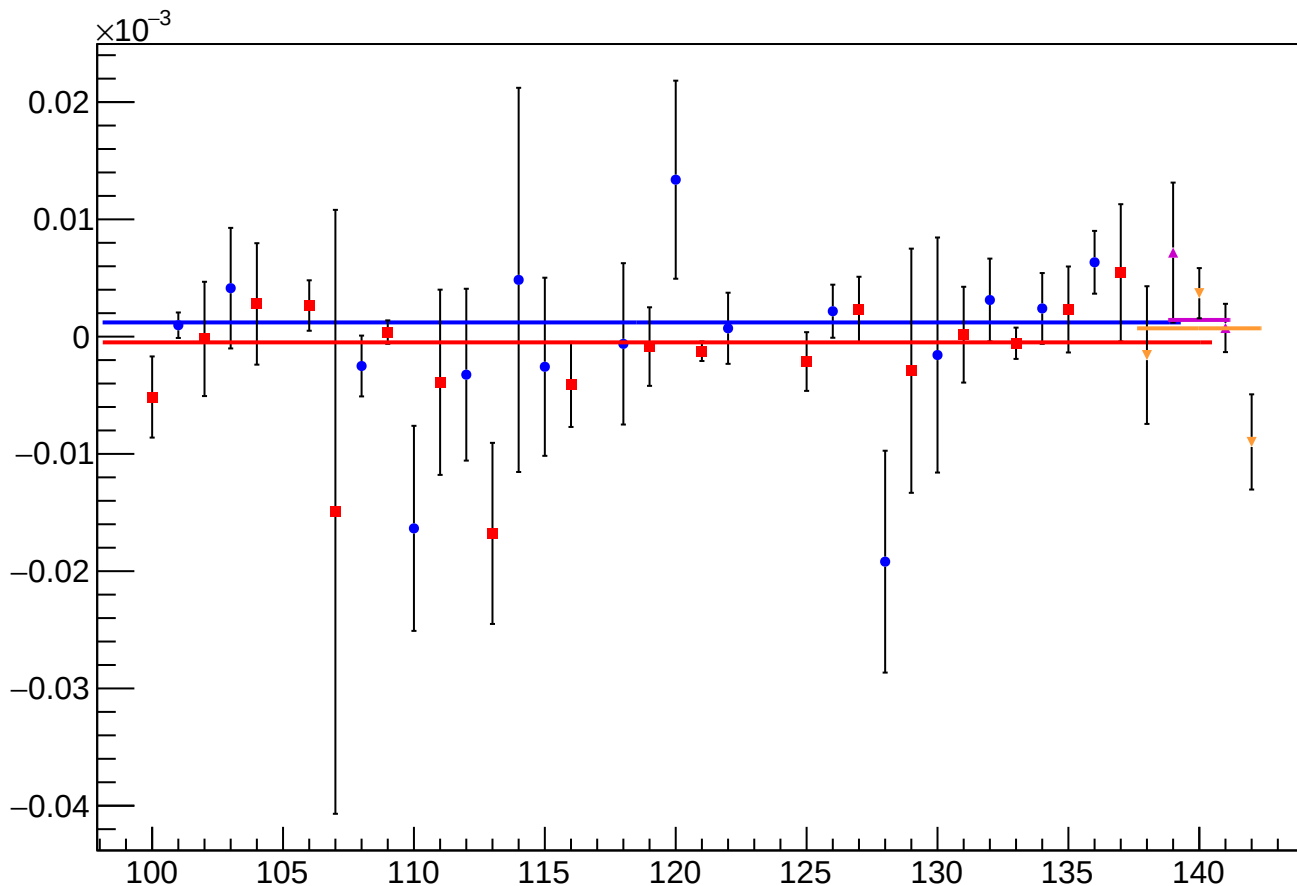
Right: 41.147 $\pm$ 0.008 χ^2 /NDF: 231982.7/33

In: 40.981 $\pm$ 0.010 χ^2 /NDF:153691.8/17

Out: 41.729 $\pm$ 0.010 χ^2 /NDF:243556.3/20

All: 41.357 $\pm$ 0.007 χ^2 /NDF: 400090.6/38

asym_us_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 18.3/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 7.8/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.0/17

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF: 1.0/1

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 8.9/4

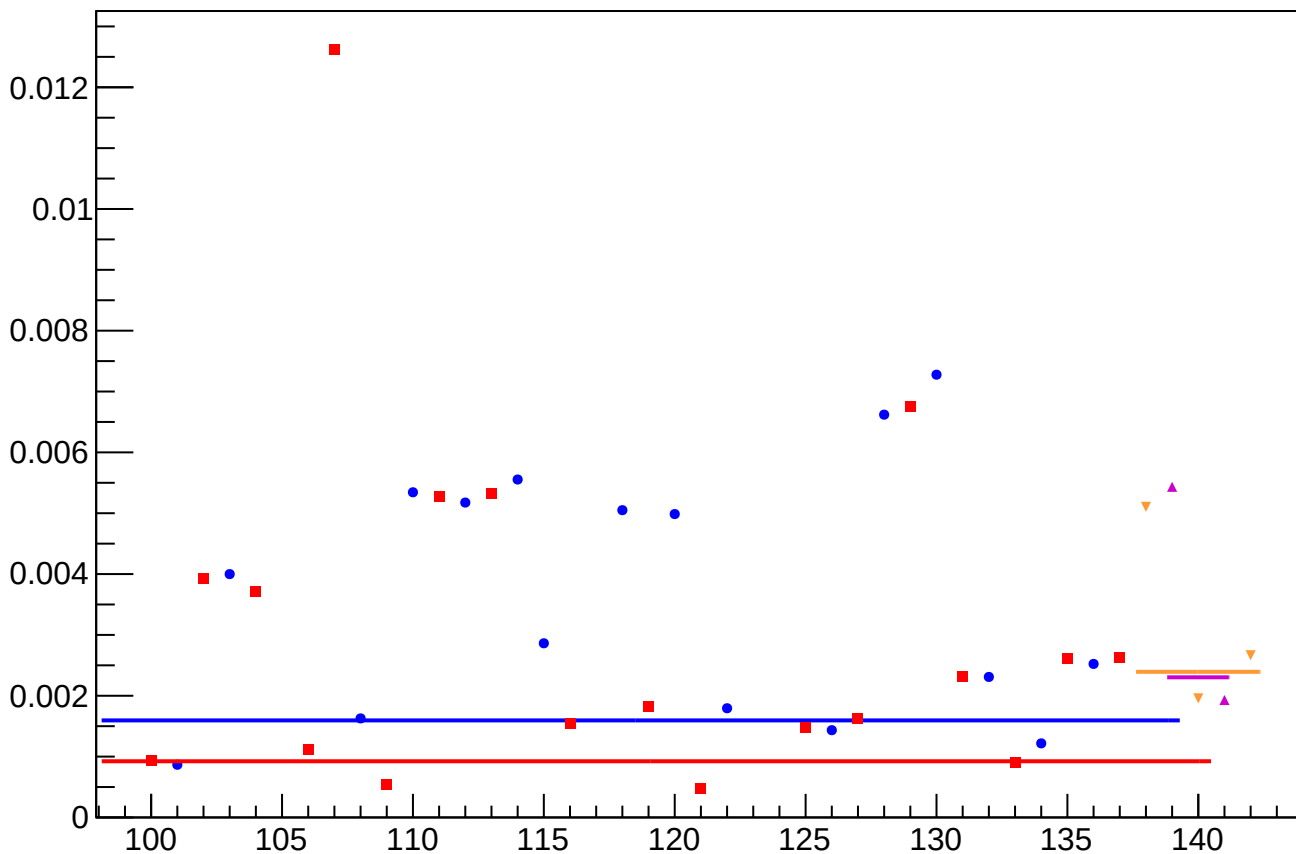
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 36.9/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF: 19.4/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 23.2/20

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 46.3/38

asym_us_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4762068.1/15

Left Out: 0.002+/-0.000 χ^2/NDF : 518684.0/2

Right Out: 0.001+/-0.000 χ^2/NDF : 5780451.3/17

Left In: 0.002+/-0.000 χ^2/NDF : 616176.0/1

Left: 0.002+/-0.000 χ^2/NDF : 1137164.9/4

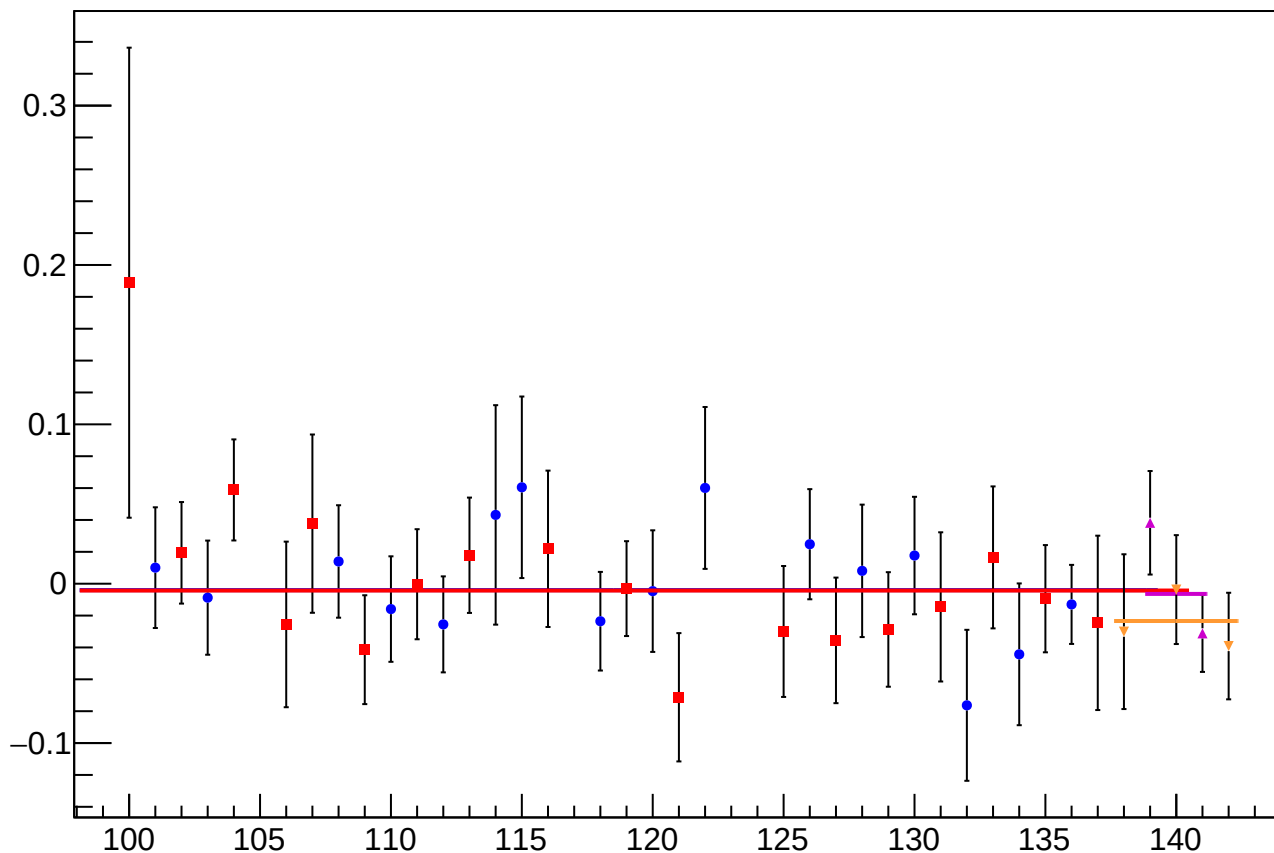
Right: 0.001+/-0.000 χ^2/NDF : 11655258.3/33

In: 0.002+/-0.000 χ^2/NDF : 5608816.2/17

Out: 0.001+/-0.000 χ^2/NDF : 7535657.8/20

All: 0.001+/-0.000 χ^2/NDF : 14351235.9/38

asym_us_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 ± 0.009 χ^2/NDF : 9.2/15

Left Out: -0.023 ± 0.021 χ^2/NDF : 0.6/2

Right Out: -0.004 ± 0.009 χ^2/NDF : 13.5/17

Left In: -0.006 ± 0.019 χ^2/NDF : 2.9/1

Left: -0.014 ± 0.014 χ^2/NDF : 3.9/4

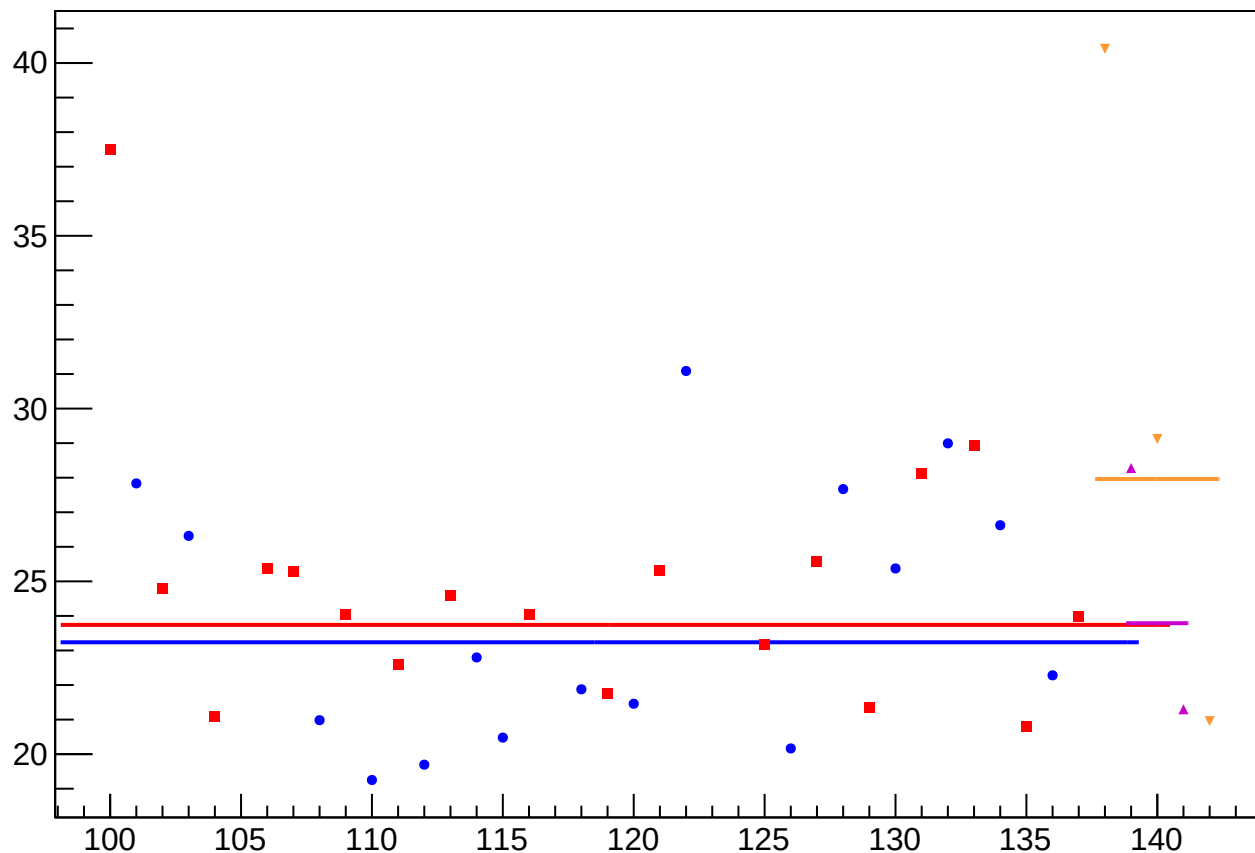
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: -0.004 ± 0.008 χ^2/NDF : 12.2/17

Out: -0.007 ± 0.009 χ^2/NDF : 14.7/20

All: -0.006 ± 0.006 χ^2/NDF : 26.9/38

asym_us_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.237 $\pm$ 0.007 χ^2/NDF : 259224.2/15

Left Out: 27.962 $\pm$ 0.015 χ^2/NDF : 221576.1/2

Right Out: 23.741 $\pm$ 0.007 χ^2/NDF : 126132.7/17

Left In: 23.789 $\pm$ 0.014 χ^2/NDF : 59411.9/1

Left: 25.668 $\pm$ 0.010 χ^2/NDF : 322632.8/4

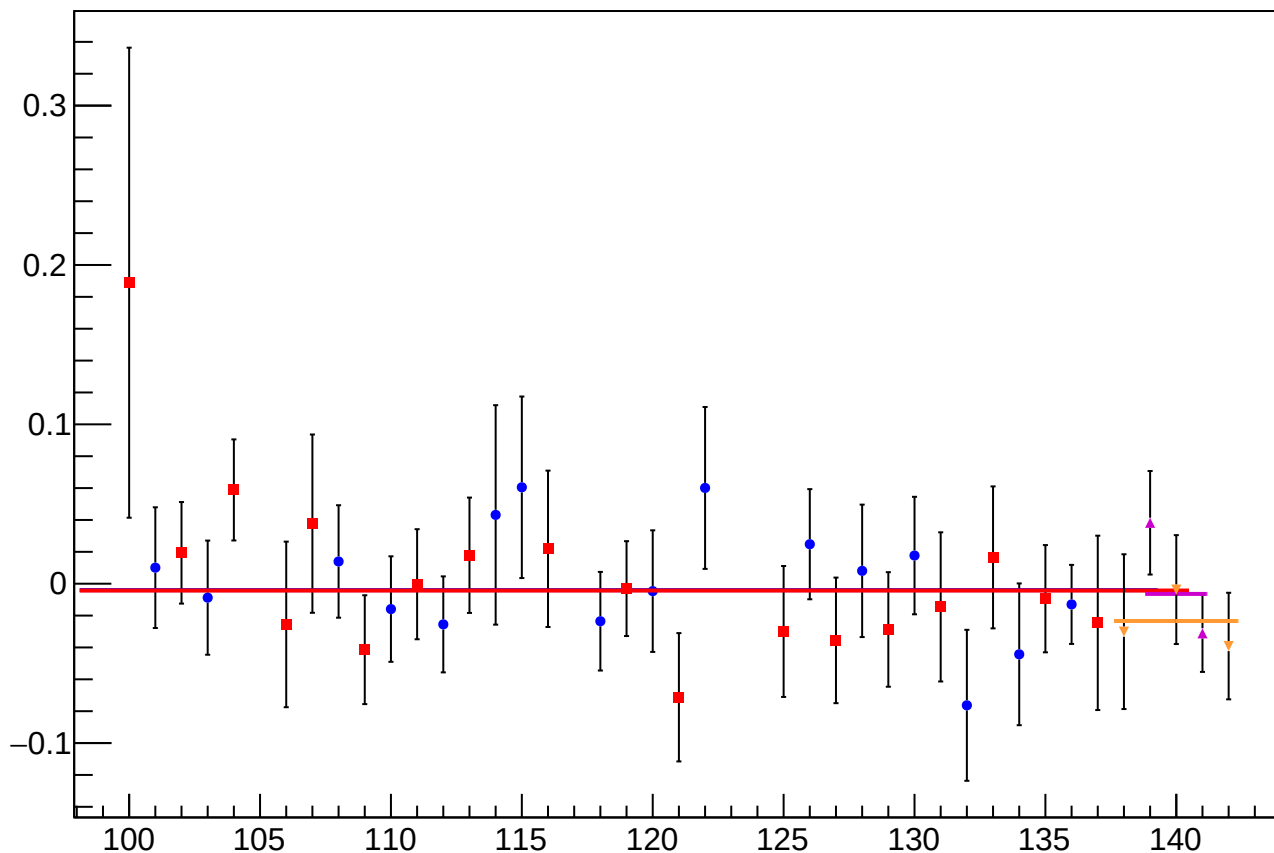
Right: 23.487 $\pm$ 0.005 χ^2/NDF : 388292.2/33

In: 23.340 $\pm$ 0.006 χ^2/NDF : 319955.5/17

Out: 24.411 $\pm$ 0.006 χ^2/NDF : 412928.6/20

All: 23.863 $\pm$ 0.004 χ^2/NDF : 748943.8/38

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 ± 0.009 χ^2/NDF : 9.2/15

Left Out: -0.023 ± 0.021 χ^2/NDF : 0.6/2

Right Out: -0.004 ± 0.009 χ^2/NDF : 13.5/17

Left In: -0.006 ± 0.019 χ^2/NDF : 2.9/1

Left: -0.014 ± 0.014 χ^2/NDF : 3.9/4

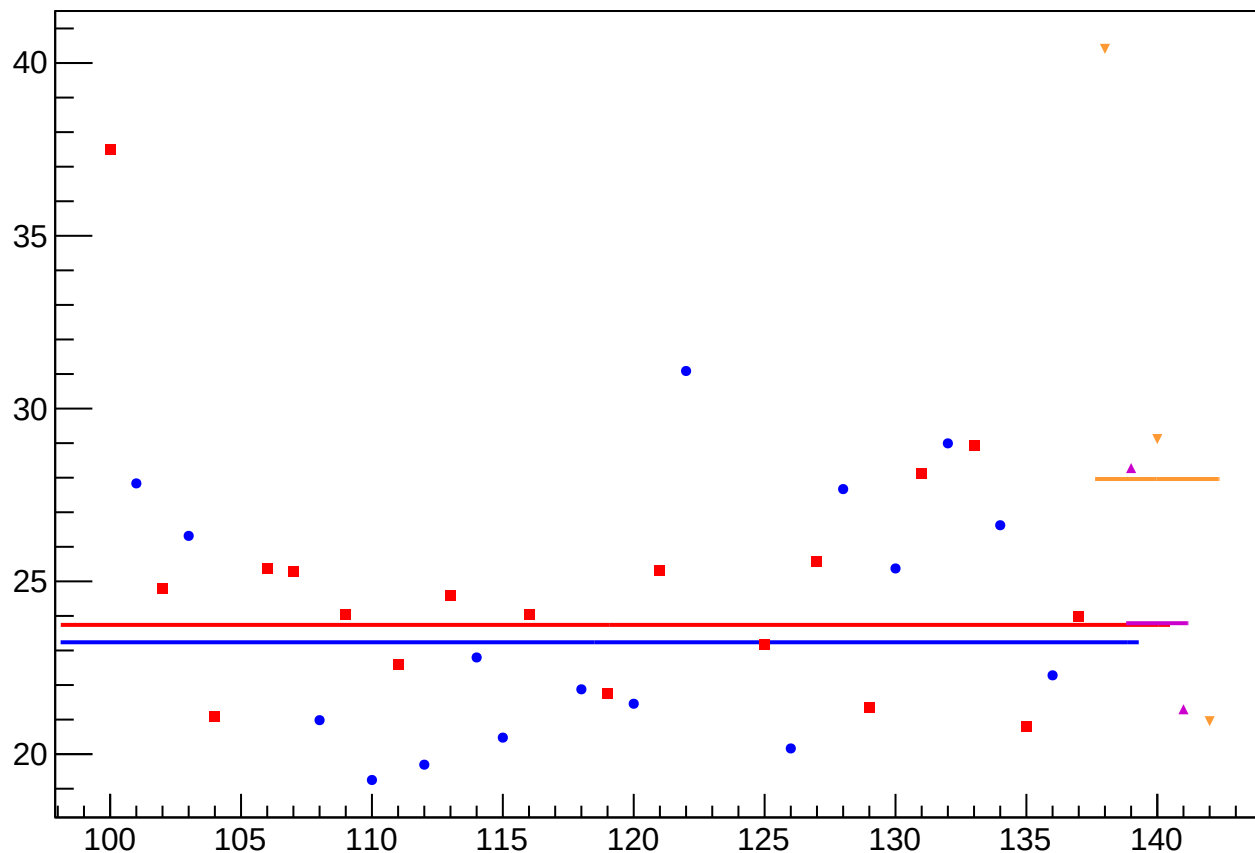
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: -0.004 ± 0.008 χ^2/NDF : 12.2/17

Out: -0.007 ± 0.009 χ^2/NDF : 14.7/20

All: -0.006 ± 0.006 χ^2/NDF : 26.9/38

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.237 $\pm$ 0.007 χ^2 /NDF: 259224.2/15

Left Out: 27.962 $\pm$ 0.015 χ^2 /NDF: 221576.1/2

Right Out: 23.741 $\pm$ 0.007 χ^2 /NDF: 126132.7/17

Left In: 23.789 $\pm$ 0.014 χ^2 /NDF: 59411.9/1

Left: 25.668 $\pm$ 0.010 χ^2 /NDF: 322632.8/4

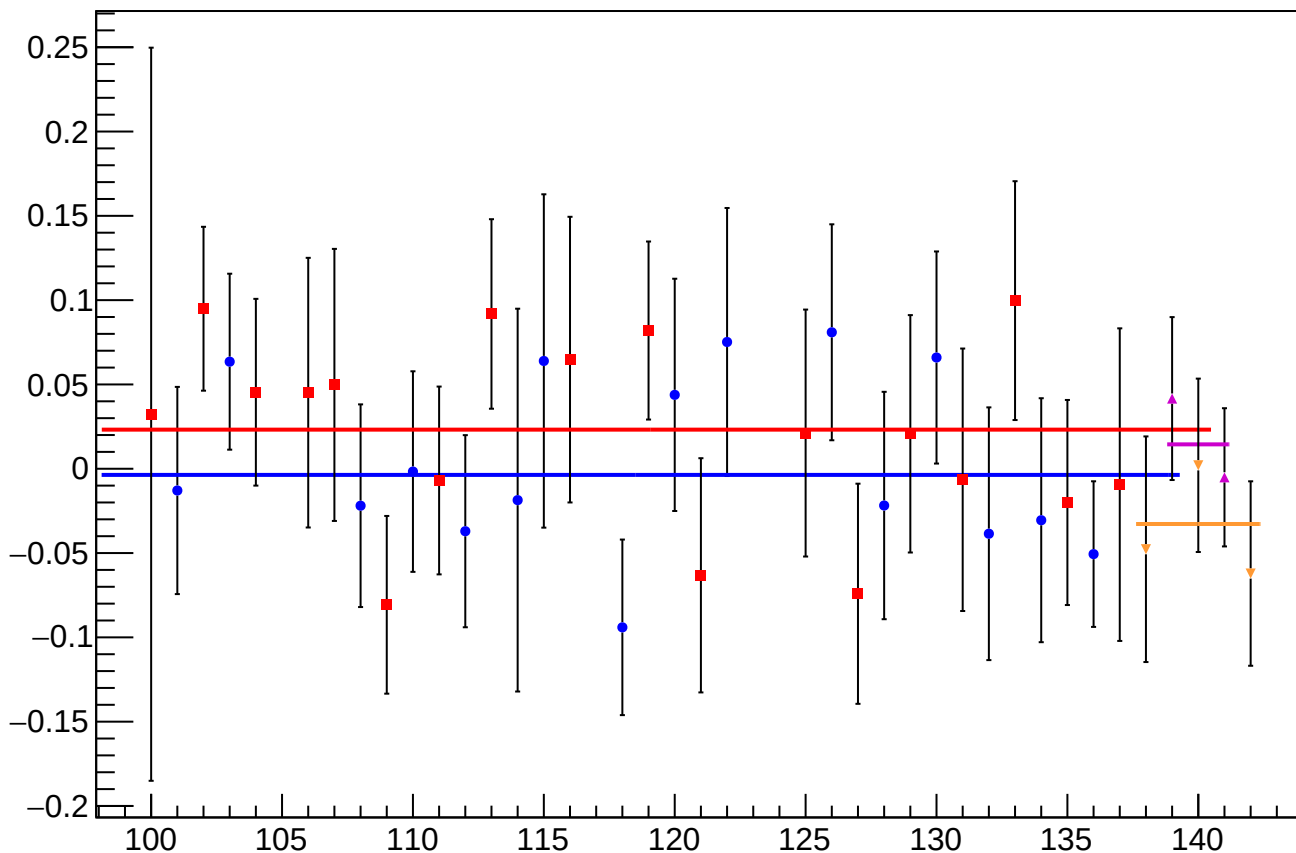
Right: 23.487 $\pm$ 0.005 χ^2 /NDF: 388292.2/33

In: 23.340 $\pm$ 0.006 χ^2 /NDF: 319955.5/17

Out: 24.411 $\pm$ 0.006 χ^2 /NDF: 412928.6/20

All: 23.863 $\pm$ 0.004 χ^2 /NDF: 748943.8/38

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 $\pm$ 0.016 χ^2 /NDF: 11.7/15

Left Out: -0.033 $\pm$ 0.033 χ^2 /NDF:0.8/2

Right Out: 0.023 $\pm$ 0.016 χ^2 /NDF: 15.4/17

Left In: 0.014 $\pm$ 0.031 χ^2 /NDF:0.5/1

Left: -0.008 $\pm$ 0.023 χ^2 /NDF: 2.4/4

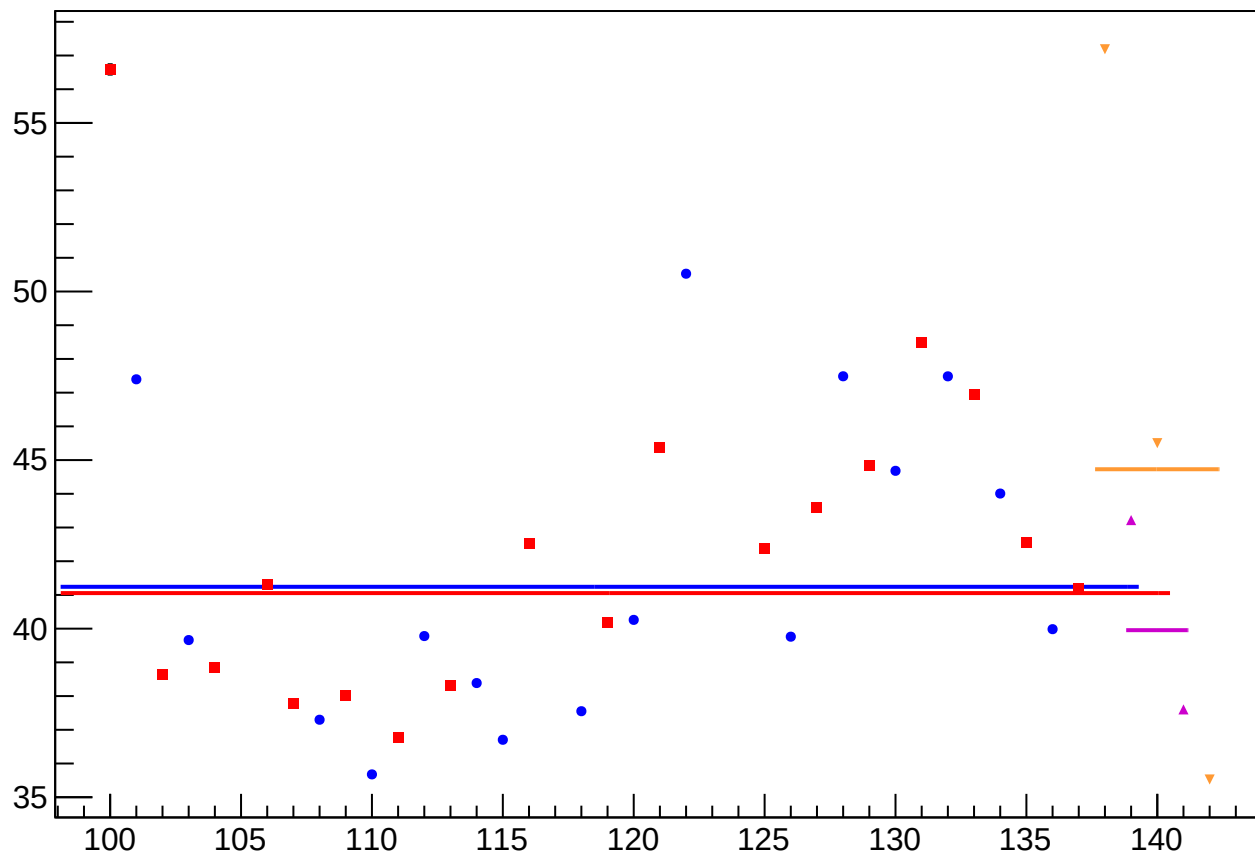
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 28.5/33

In: 0.000 $\pm$ 0.014 χ^2 /NDF:12.5/17

Out: 0.013 $\pm$ 0.014 χ^2 /NDF:18.6/20

All: 0.006 $\pm$ 0.010 χ^2 /NDF: 31.5/38

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.241 $\pm$ 0.011 χ^2 /NDF: 135256.9/15

Left Out: 44.728 $\pm$ 0.023 χ^2 /NDF:126382.2/2

Right Out: 41.055 $\pm$ 0.011 χ^2 /NDF: 96549.4/17

Left In: 39.955 $\pm$ 0.022 χ^2 /NDF:15713.2/1

Left: 42.234 $\pm$ 0.016 χ^2 /NDF: 164374.3/4

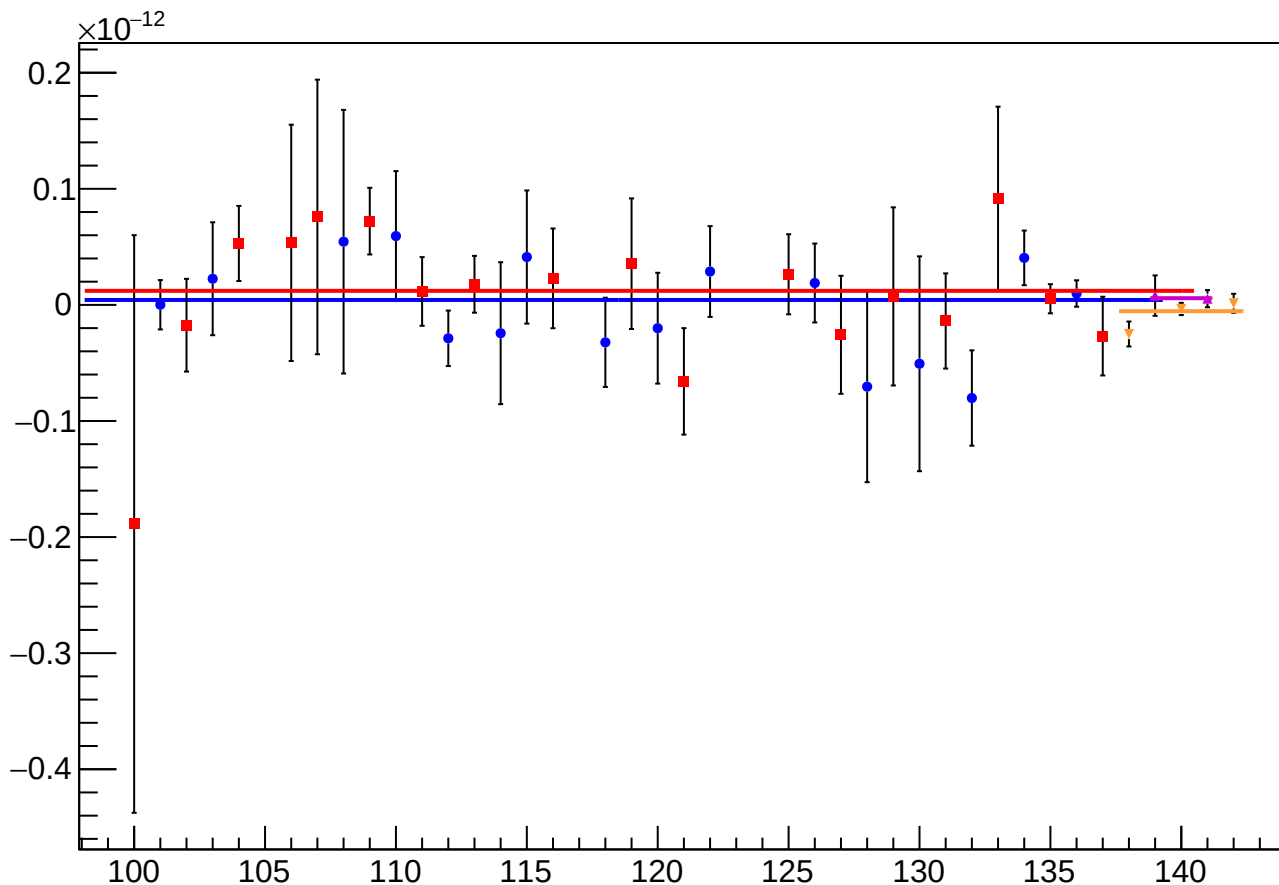
Right: 41.147 $\pm$ 0.008 χ^2 /NDF: 231949.1/33

In: 40.981 $\pm$ 0.010 χ^2 /NDF:153673.2/17

Out: 41.729 $\pm$ 0.010 χ^2 /NDF:243549.6/20

All: 41.357 $\pm$ 0.007 χ^2 /NDF: 400066.1/38

asym_us_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 13.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 4.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 14.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 6.2/4

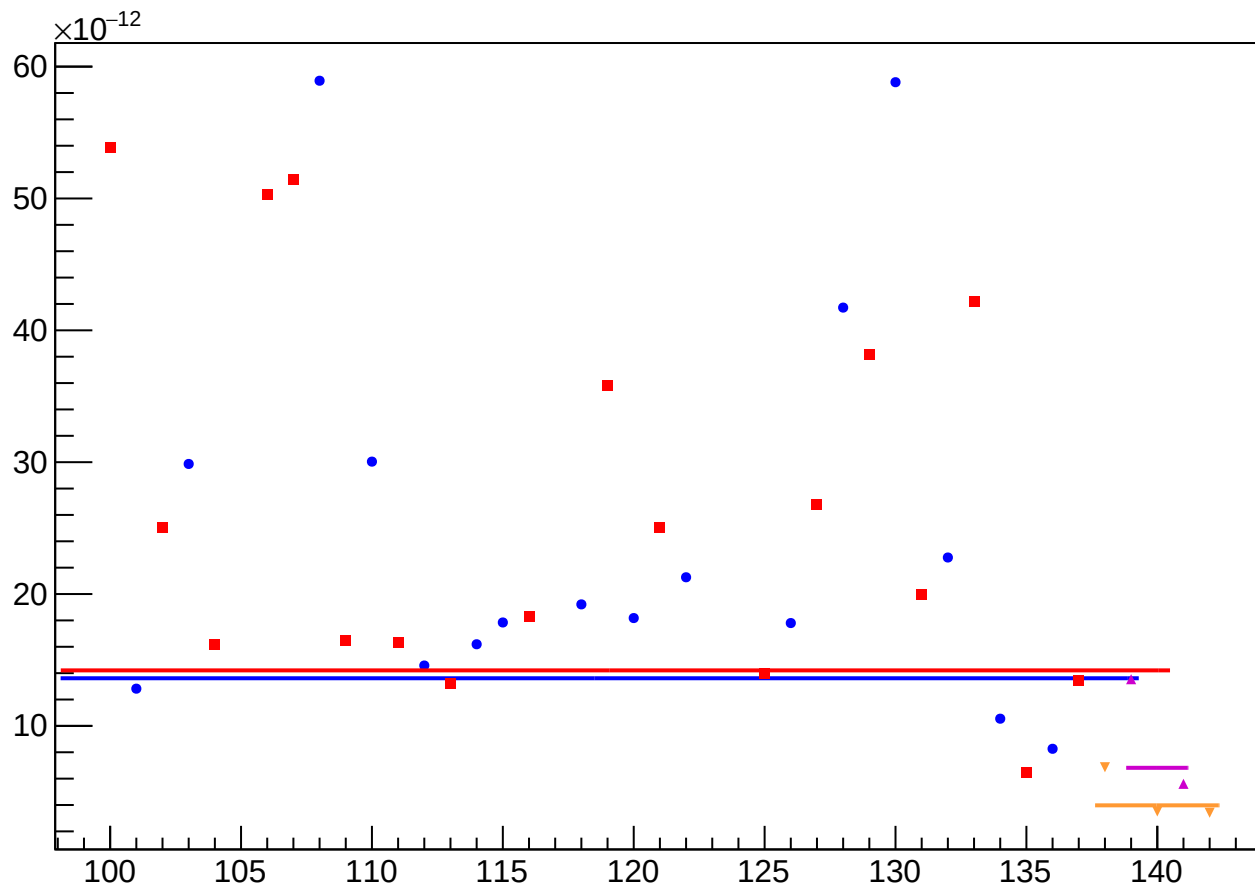
Right: 0.000+/-0.000 χ^2/NDF : 28.7/33

In: 0.000+/-0.000 χ^2/NDF : 13.7/17

Out: -0.000+/-0.000 χ^2/NDF : 22.7/20

All: 0.000+/-0.000 χ^2/NDF : 37.5/38

asym_us_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2188622.9/15

Left Out: 0.000+/-0.000 χ^2/NDF :169742.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2471664.5/17

Left In: 0.000+/-0.000 χ^2/NDF :351880.7/1

Left: 0.000+/-0.000 χ^2/NDF : 778183.2/4

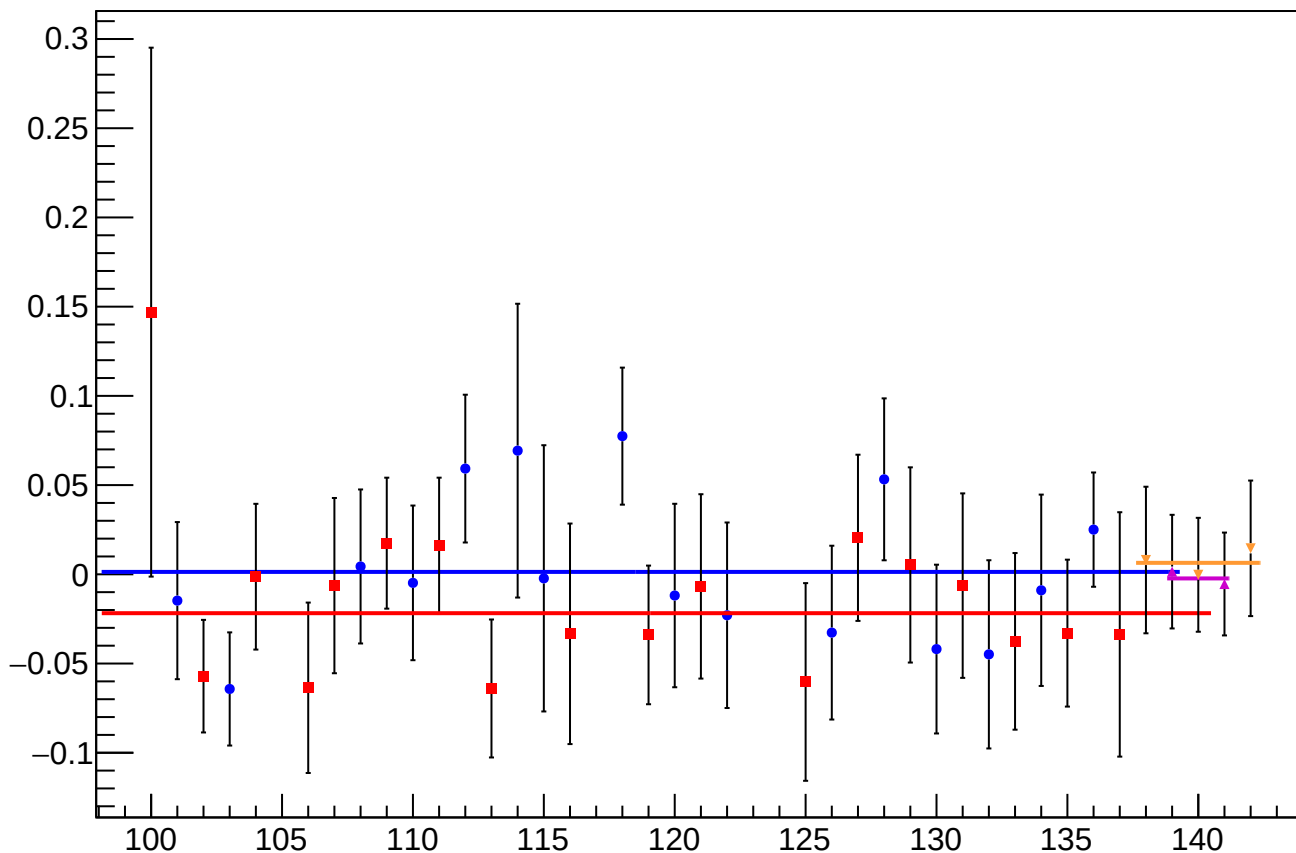
Right: 0.000+/-0.000 χ^2/NDF : 4666493.6/33

In: 0.000+/-0.000 χ^2/NDF :3455813.4/17

Out: 0.000+/-0.000 χ^2/NDF :5346908.8/20

All: 0.000+/-0.000 χ^2/NDF : 9541036.5/38

asym_us_dd_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.011 χ^2/NDF : 15.3/15

Left Out: 0.006 ± 0.021 χ^2/NDF : 0.1/2

Right Out: -0.022 ± 0.011 χ^2/NDF : 9.0/17

Left In: -0.002 ± 0.021 χ^2/NDF : 0.0/1

Left: 0.002 ± 0.015 χ^2/NDF : 0.2/4

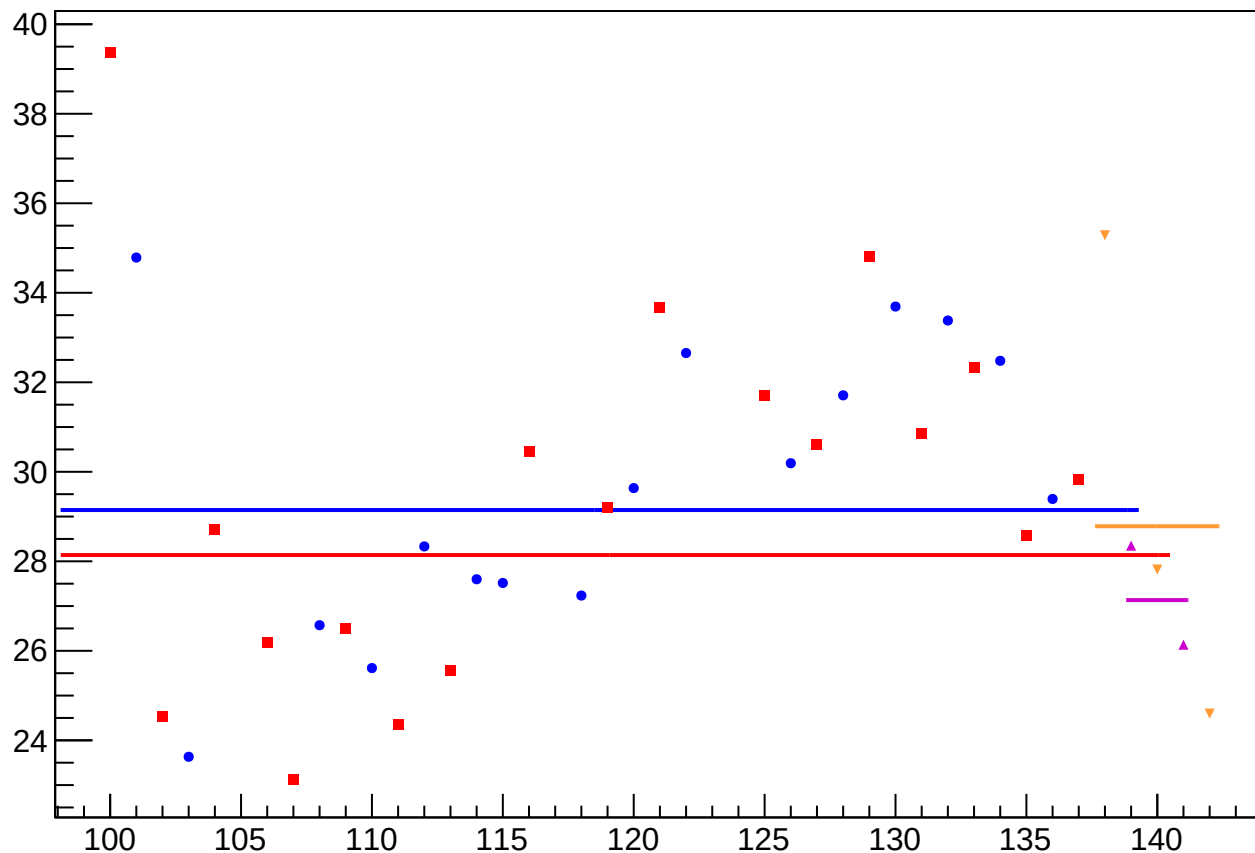
Right: -0.011 ± 0.008 χ^2/NDF : 26.5/33

In: 0.001 ± 0.010 χ^2/NDF : 15.3/17

Out: -0.016 ± 0.010 χ^2/NDF : 10.6/20

All: -0.008 ± 0.007 χ^2/NDF : 27.3/38

asym_us_dd_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.146 $\pm$ 0.008 χ^2/NDF : 176889.4/15

Left Out: 28.784 $\pm$ 0.015 χ^2/NDF : 76252.4/2

Right Out: 28.140 $\pm$ 0.008 χ^2/NDF : 187103.8/17

Left In: 27.134 $\pm$ 0.015 χ^2/NDF : 5314.6/1

Left: 27.973 $\pm$ 0.011 χ^2/NDF : 87635.0/4

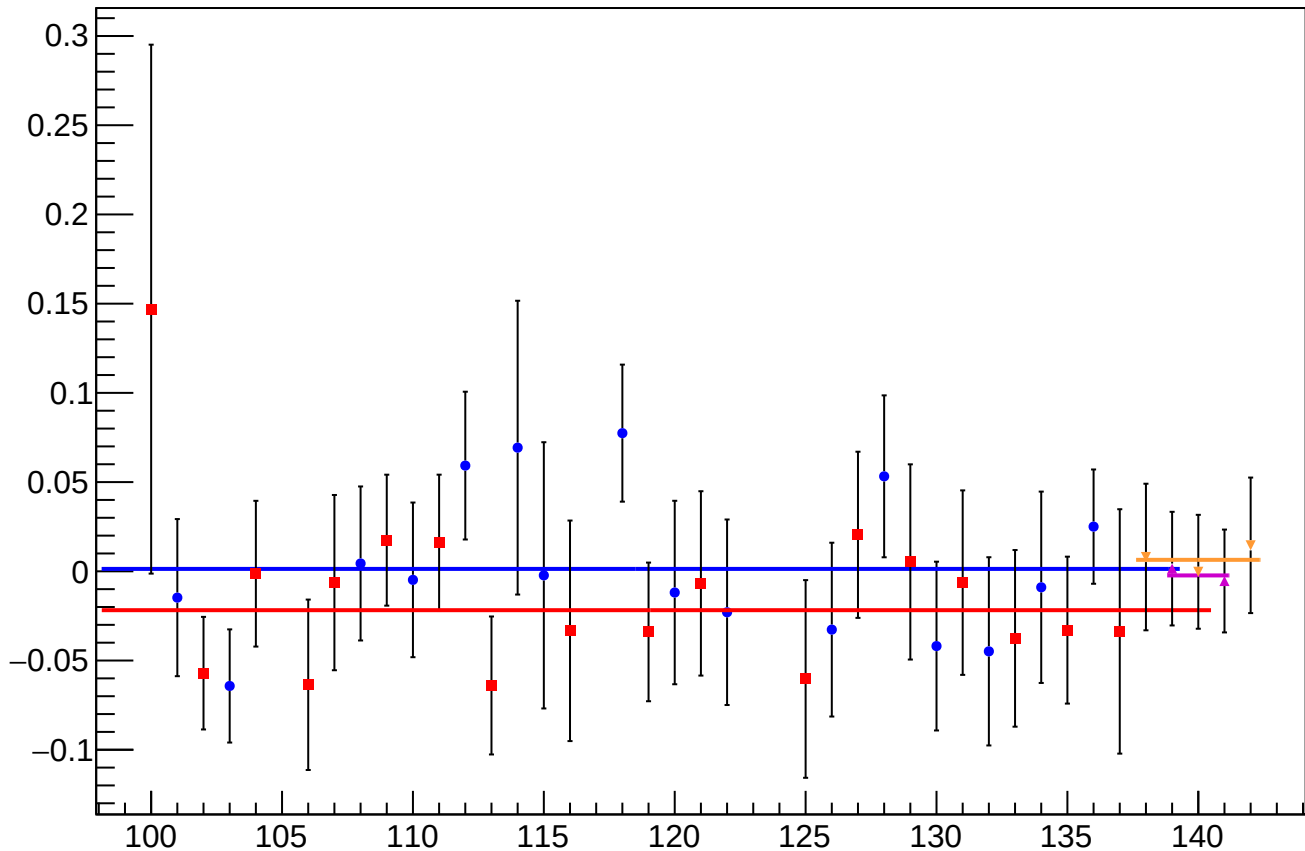
Right: 28.623 $\pm$ 0.005 χ^2/NDF : 372352.6/33

In: 28.711 $\pm$ 0.007 χ^2/NDF : 196109.3/17

Out: 28.274 $\pm$ 0.007 χ^2/NDF : 264843.7/20

All: 28.485 $\pm$ 0.005 χ^2/NDF : 462956.1/38

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.011 χ^2 /NDF: 15.3/15

Left Out: 0.006 $\pm$ 0.021 χ^2 /NDF: 0.1/2

Right Out: -0.022 $\pm$ 0.011 χ^2 /NDF: 9.0/17

Left In: -0.002 $\pm$ 0.021 χ^2 /NDF: 0.0/1

Left: 0.002 $\pm$ 0.015 χ^2 /NDF: 0.2/4

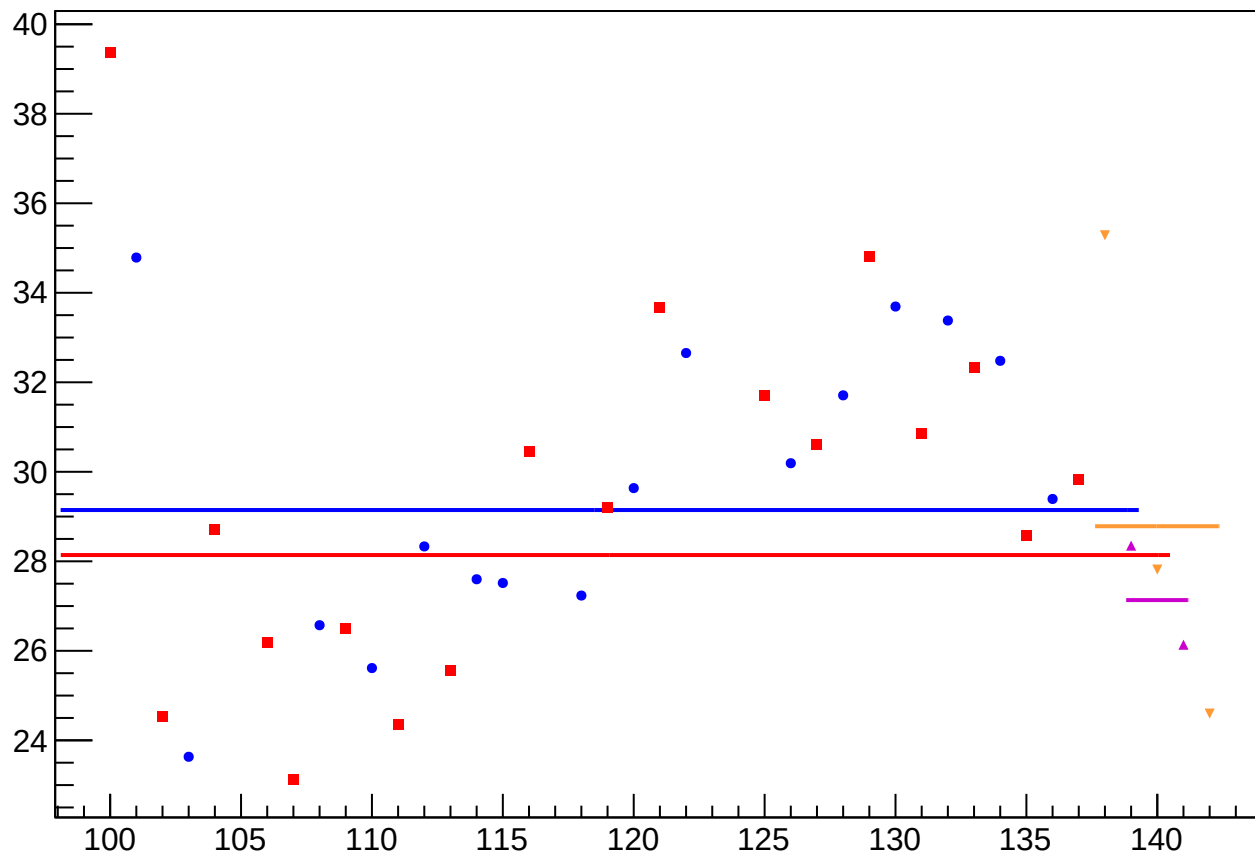
Right: -0.011 $\pm$ 0.008 χ^2 /NDF: 26.5/33

In: 0.001 $\pm$ 0.010 χ^2 /NDF: 15.3/17

Out: -0.016 $\pm$ 0.010 χ^2 /NDF: 10.6/20

All: -0.008 $\pm$ 0.007 χ^2 /NDF: 27.3/38

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.146 $\pm$ 0.008 χ^2 /NDF: 176889.4/15

Left Out: 28.784 $\pm$ 0.015 χ^2 /NDF: 76252.4/2

Right Out: 28.140 $\pm$ 0.008 χ^2 /NDF: 187103.8/17

Left In: 27.134 $\pm$ 0.015 χ^2 /NDF: 5314.6/1

Left: 27.973 $\pm$ 0.011 χ^2 /NDF: 87635.0/4

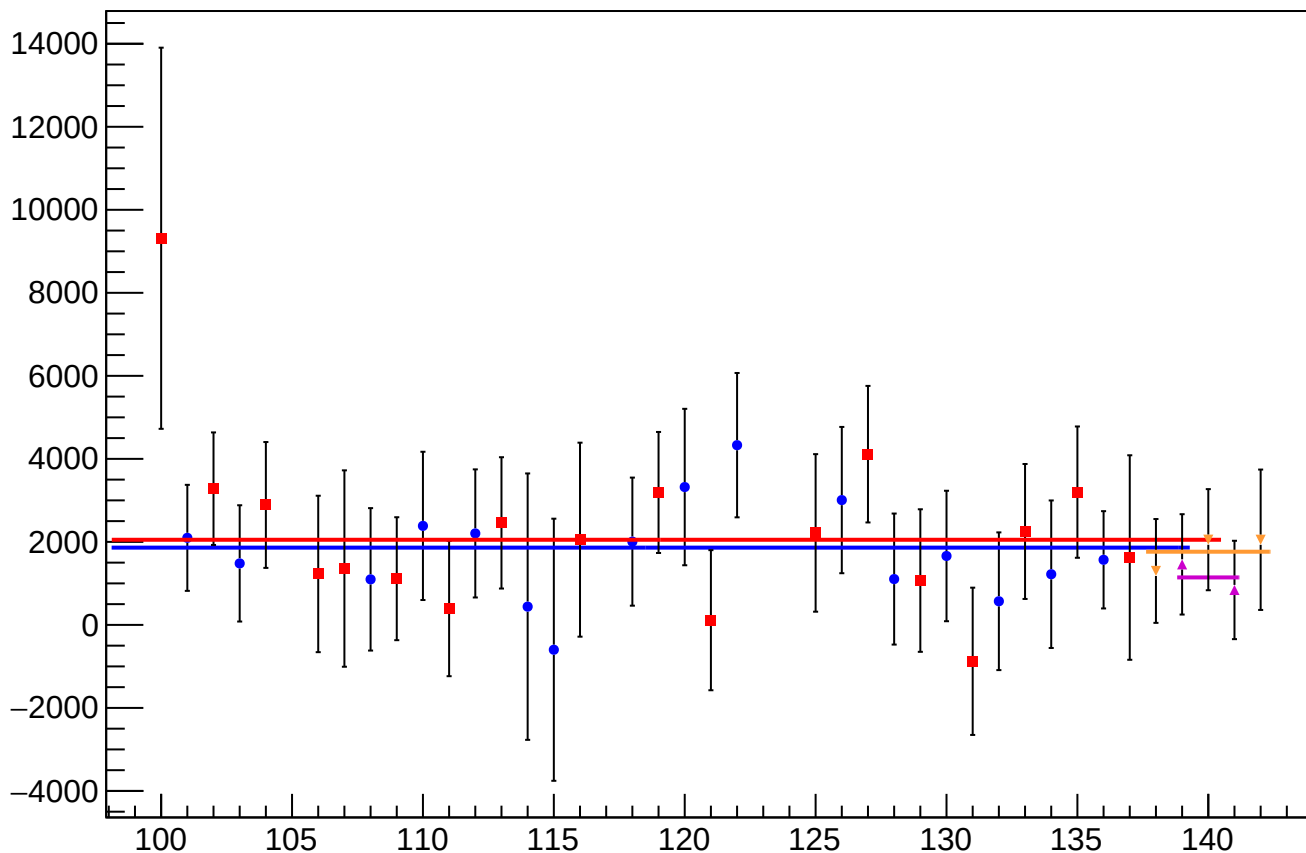
Right: 28.623 $\pm$ 0.005 χ^2 /NDF: 372352.6/33

In: 28.711 $\pm$ 0.007 χ^2 /NDF: 196109.3/17

Out: 28.274 $\pm$ 0.007 χ^2 /NDF: 264843.7/20

All: 28.485 $\pm$ 0.005 χ^2 /NDF: 462956.1/38

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1861.525 $\pm$ 409.524 χ^2 /NDF: 5.3/15

Left Out: 1763.126 $\pm$ 775.471 χ^2 /NDF:0.2/2

Right Out: 2050.842 $\pm$ 409.249 χ^2 /NDF: 12.5/17

Left In: 1143.738 $\pm$ 846.169 χ^2 /NDF:0.1/1

Left: 1480.384 $\pm$ 571.704 χ^2 /NDF: 0.6/4

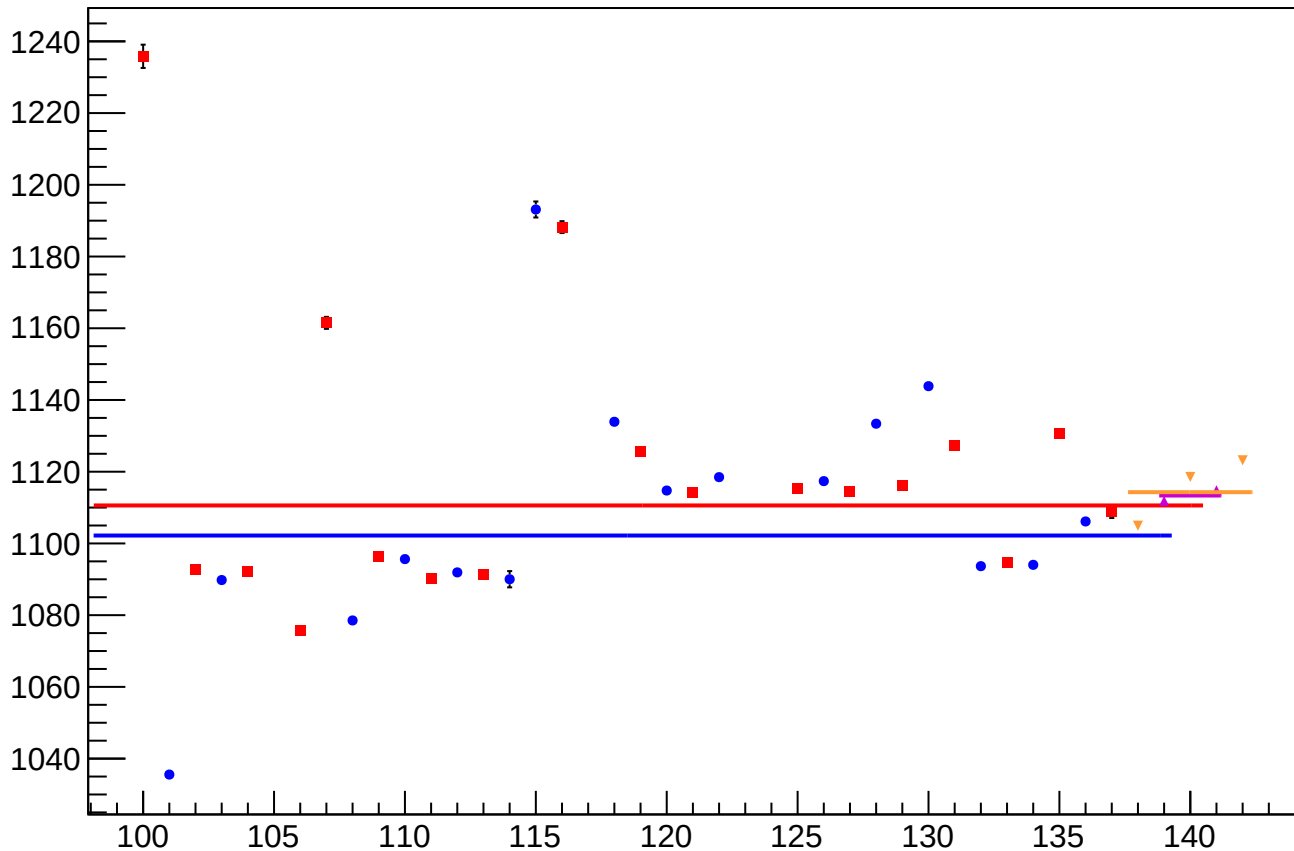
Right: 1956.247 $\pm$ 289.480 χ^2 /NDF: 18.0/33

In: 1725.304 $\pm$ 368.622 χ^2 /NDF:6.1/17

Out: 1988.166 $\pm$ 361.939 χ^2 /NDF:12.9/20

All: 1859.139 $\pm$ 258.260 χ^2 /NDF: 19.2/38

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1102.205+/-0.290 χ^2/NDF : 11348.9/15

Left Out: 1114.294+/-0.548 χ^2/NDF :191.1/2

Right Out: 1110.592+/-0.289 χ^2/NDF : 7696.0/17

Left In: 1113.359+/-0.598 χ^2/NDF :6.2/1

Left: 1113.867+/-0.404 χ^2/NDF : 198.6/4

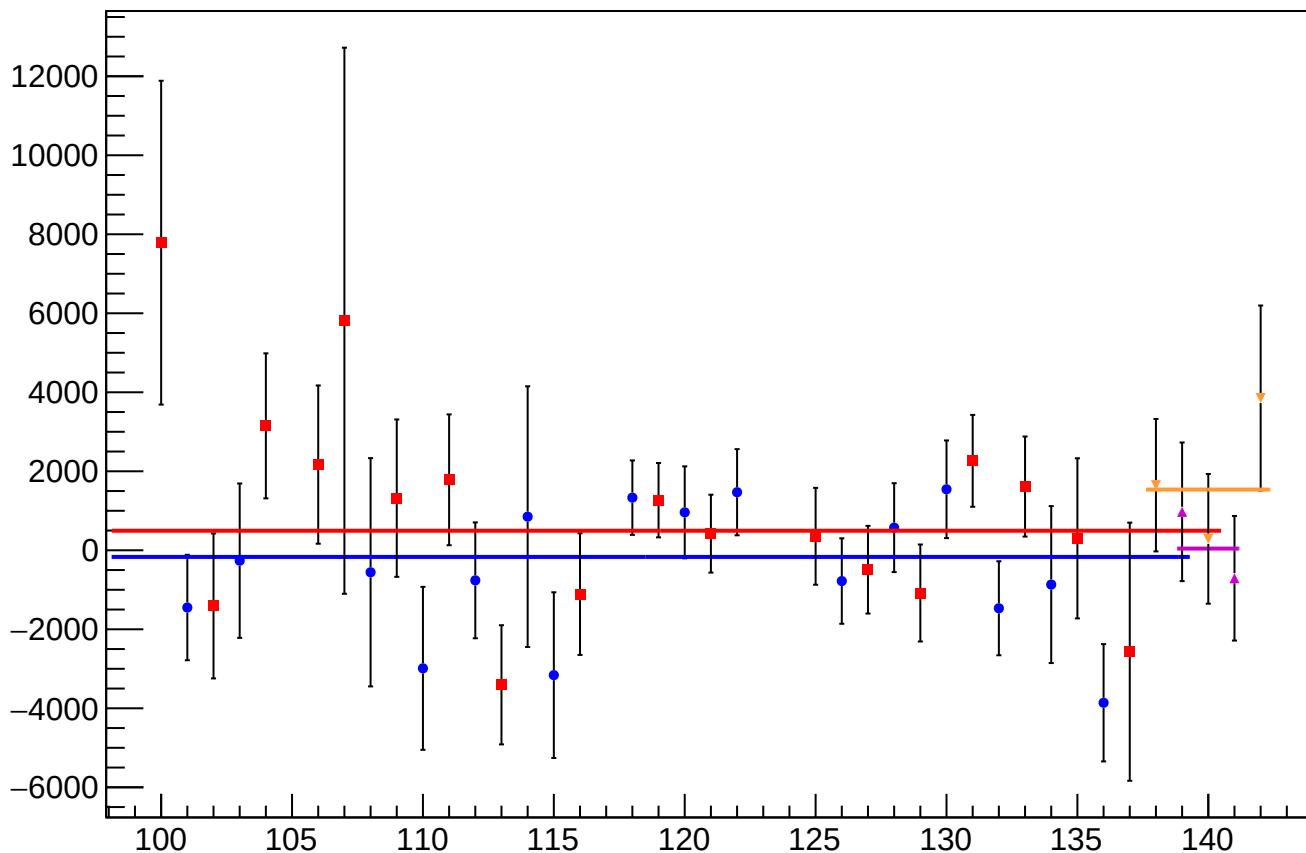
Right: 1106.401+/-0.205 χ^2/NDF : 19464.6/33

In: 1104.322+/-0.261 χ^2/NDF :11636.7/17

Out: 1111.398+/-0.256 χ^2/NDF :7922.8/20

All: 1107.925+/-0.183 χ^2/NDF : 19934.7/38

asym_usl_reg_correction_mean vs Slug, Sign Corrected



Right In: -167.891+/-345.441 χ^2/NDF : 21.0/15

Left Out: 1536.724+/-1048.639 χ^2/NDF : 1.6/2

Right Out: 495.172+/-345.054 χ^2/NDF : 23.3/17

Left In: 43.728+/-1172.799 χ^2/NDF : 0.5/1

Left: 873.412+/-781.723 χ^2/NDF : 3.0/4

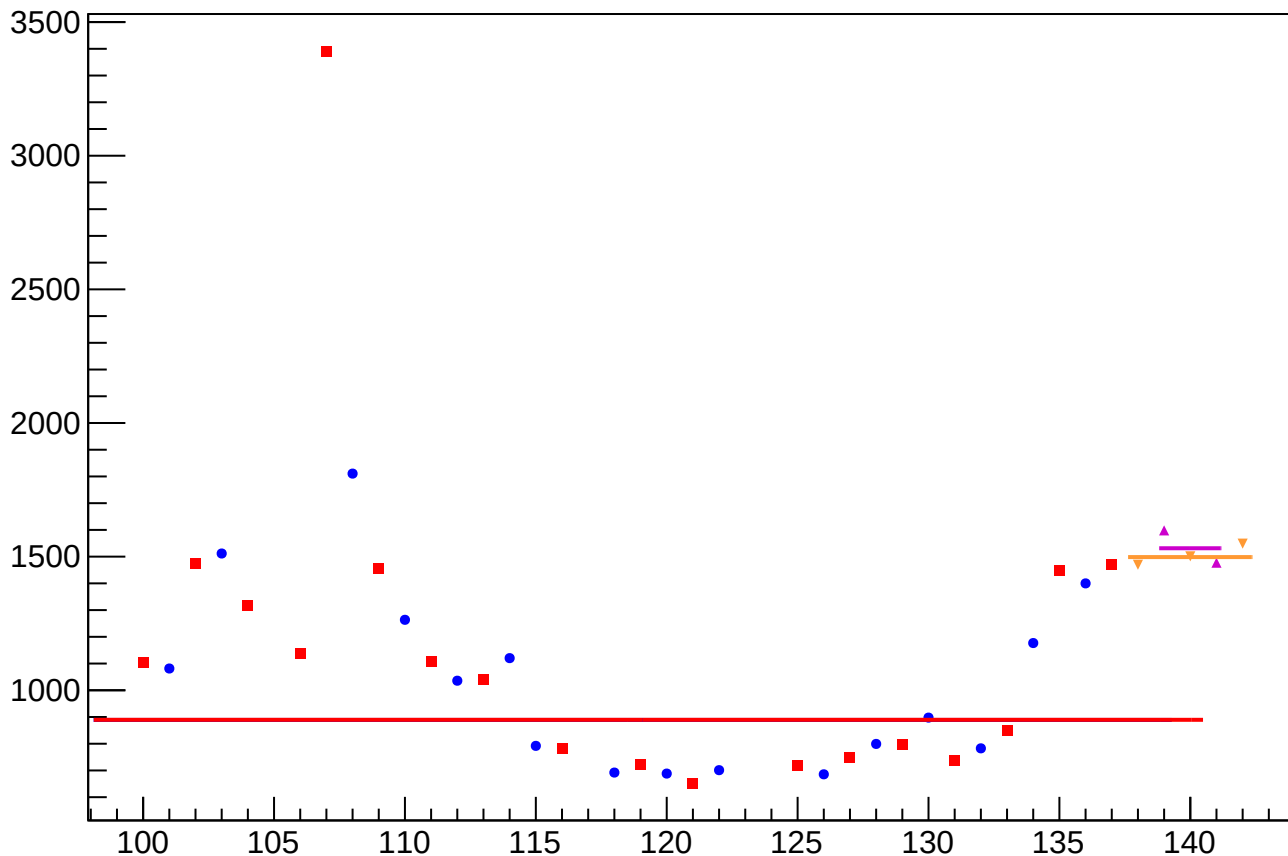
Right: 164.012+/-244.127 χ^2/NDF : 46.1/33

In: -150.998+/-331.366 χ^2/NDF : 21.5/17

Out: 596.928+/-327.766 χ^2/NDF : 25.7/20

All: 227.050+/-233.028 χ^2/NDF : 49.9/38

asym_usl_reg_correction_rms vs Slug, Sign Corrected



Right In: 888.956+/-0.244 χ^2/NDF : 1132766.3/15

Left Out: 1498.329+/-0.741 χ^2/NDF :1512.2/2

Right Out: 889.478+/-0.244 χ^2/NDF : 1345750.2/17

Left In: 1531.365+/-0.829 χ^2/NDF :5255.6/1

Left: 1513.007+/-0.553 χ^2/NDF : 7649.7/4

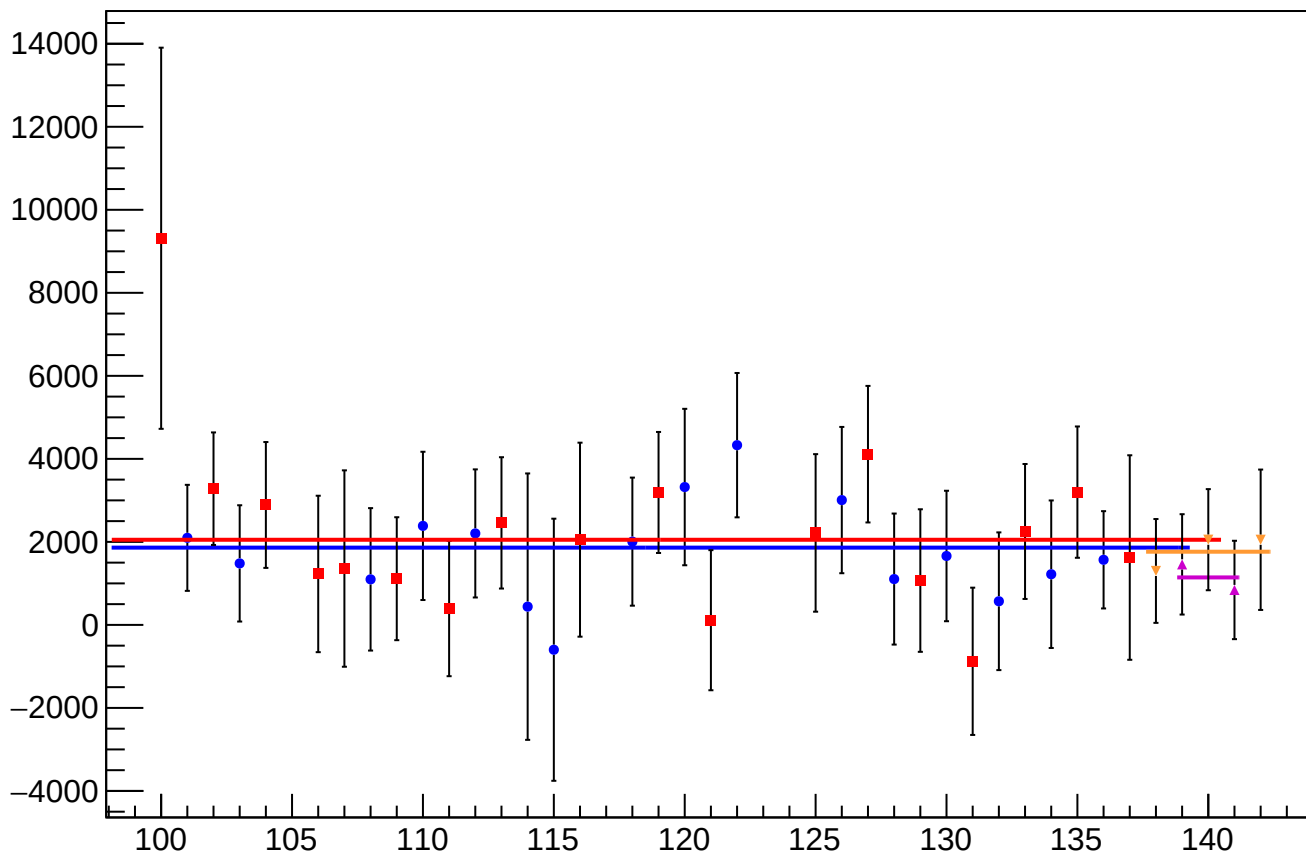
Right: 889.217+/-0.173 χ^2/NDF : 2478518.8/33

In: 940.240+/-0.234 χ^2/NDF :1690193.3/17

Out: 948.960+/-0.232 χ^2/NDF :1955613.2/20

All: 944.648+/-0.165 χ^2/NDF : 3646506.6/38

cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 1861.525 $\pm$ 409.524 χ^2 /NDF: 5.3/15

Left Out: 1763.126 $\pm$ 775.471 χ^2 /NDF:0.2/2

Right Out: 2050.842 $\pm$ 409.249 χ^2 /NDF: 12.5/17

Left In: 1143.738 $\pm$ 846.169 χ^2 /NDF:0.1/1

Left: 1480.384 $\pm$ 571.704 χ^2 /NDF: 0.6/4

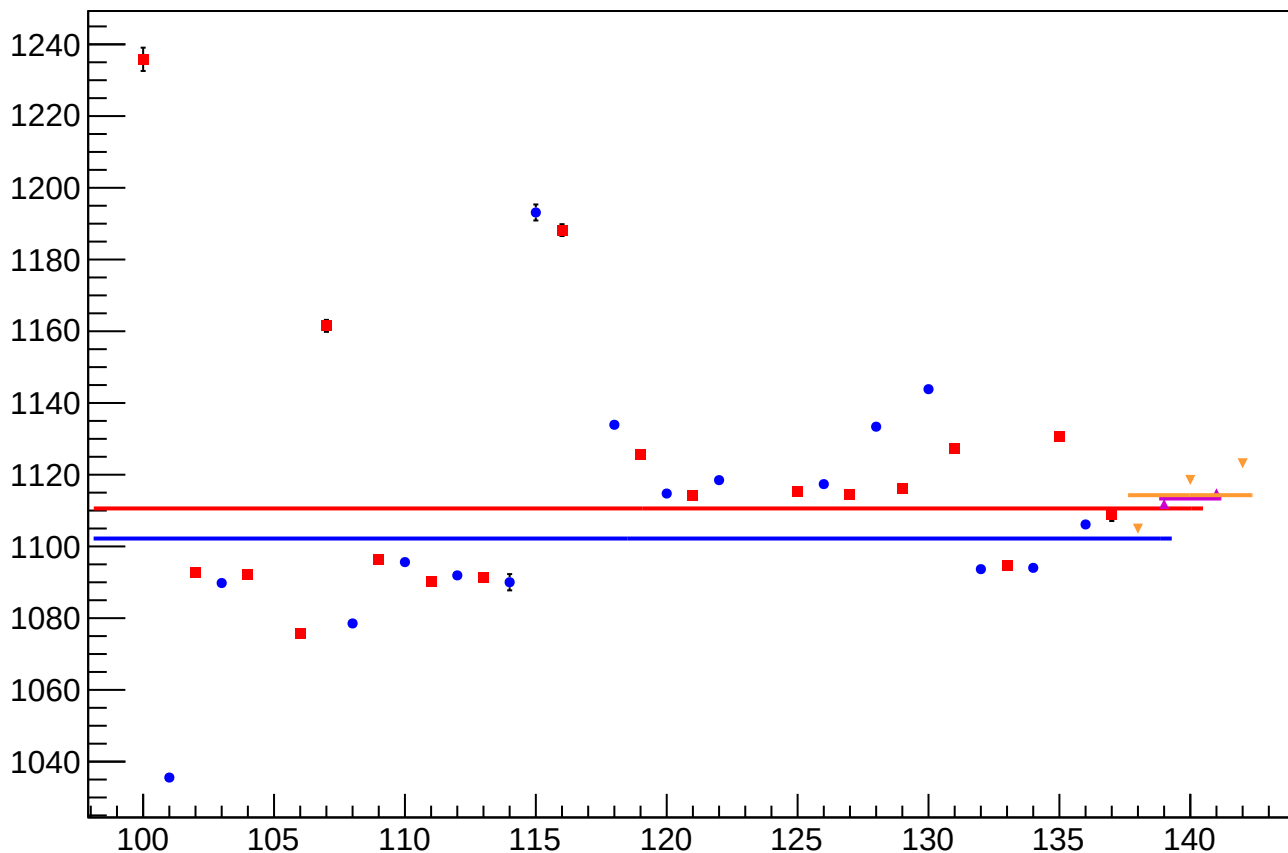
Right: 1956.247 $\pm$ 289.480 χ^2 /NDF: 18.0/33

In: 1725.304 $\pm$ 368.622 χ^2 /NDF:6.1/17

Out: 1988.166 $\pm$ 361.939 χ^2 /NDF:12.9/20

All: 1859.139 $\pm$ 258.260 χ^2 /NDF: 19.2/38

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1102.205 $\pm$ 0.290 χ^2 /NDF: 11348.9/15

Left Out: 1114.294 $\pm$ 0.548 χ^2 /NDF:191.1/2

Right Out: 1110.592 $\pm$ 0.289 χ^2 /NDF: 7696.0/17

Left In: 1113.359 $\pm$ 0.598 χ^2 /NDF:6.2/1

Left: 1113.867 $\pm$ 0.404 χ^2 /NDF: 198.6/4

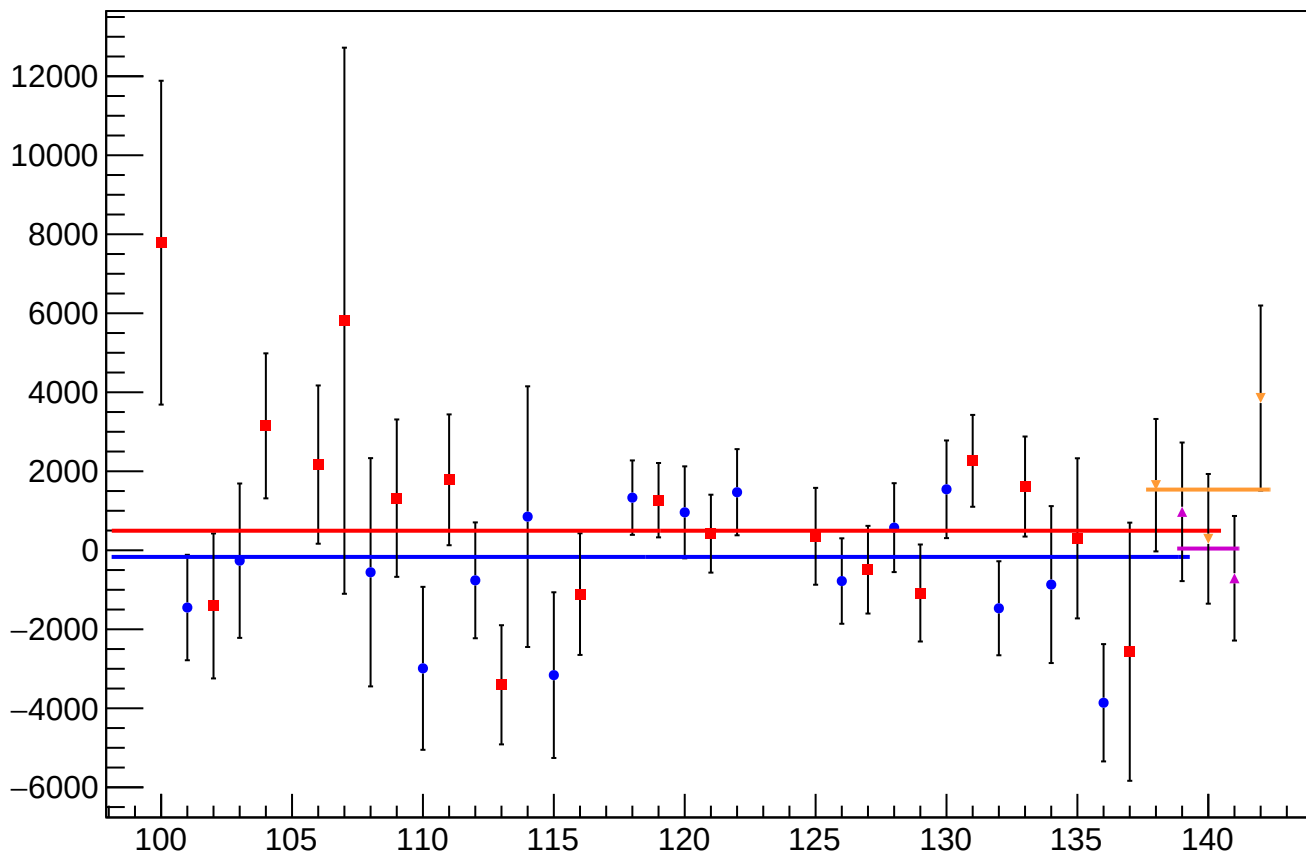
Right: 1106.401 $\pm$ 0.205 χ^2 /NDF: 19464.6/33

In: 1104.322 $\pm$ 0.261 χ^2 /NDF:11636.7/17

Out: 1111.398 $\pm$ 0.256 χ^2 /NDF:7922.8/20

All: 1107.925 $\pm$ 0.183 χ^2 /NDF: 19934.7/38

asym_usl_cor_correction_mean vs Slug, Sign Corrected



Right In: -167.891+/-345.441 χ^2/NDF : 21.0/15

Left Out: 1536.724+/-1048.639 χ^2/NDF : 1.6/2

Right Out: 495.172+/-345.054 χ^2/NDF : 23.3/17

Left In: 43.728+/-1172.799 χ^2/NDF : 0.5/1

Left: 873.412+/-781.723 χ^2/NDF : 3.0/4

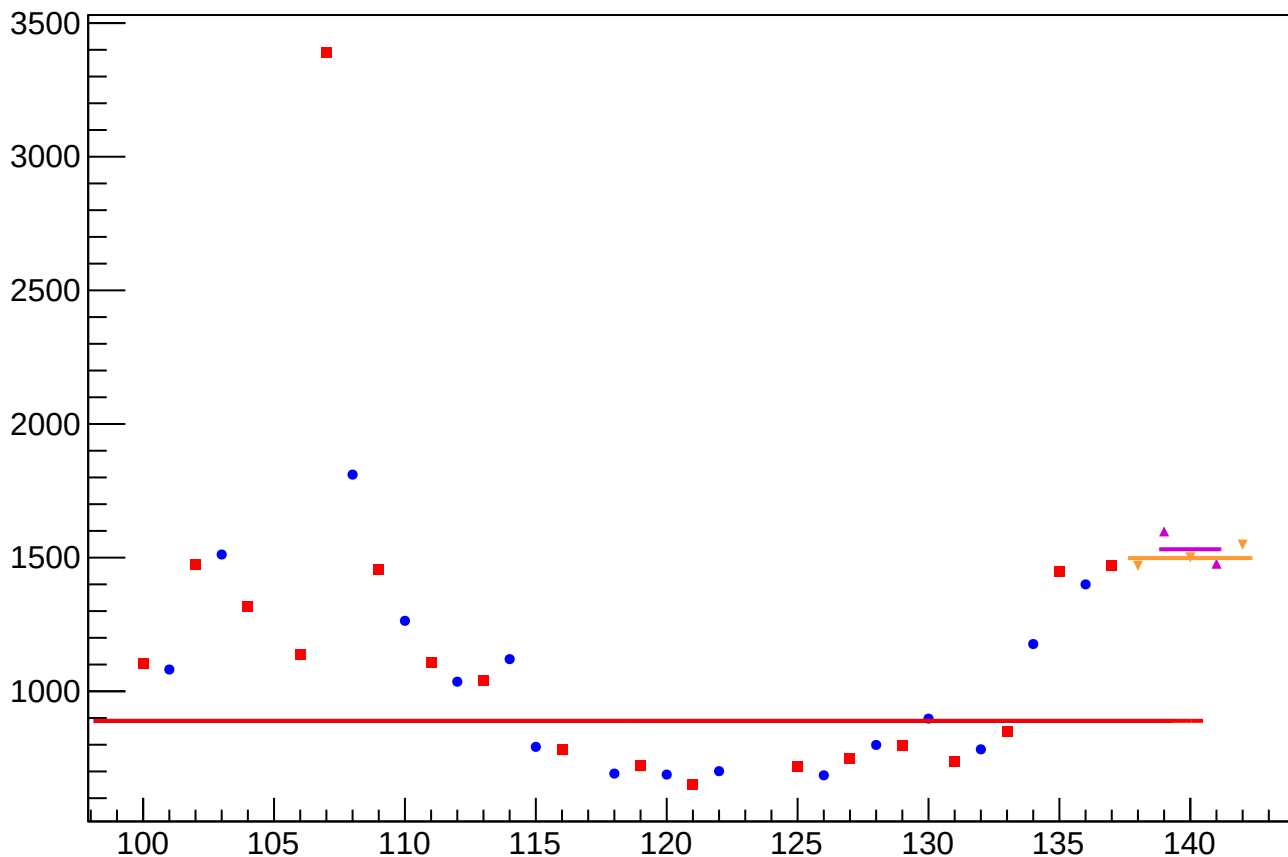
Right: 164.012+/-244.127 χ^2/NDF : 46.1/33

In: -150.998+/-331.366 χ^2/NDF : 21.5/17

Out: 596.928+/-327.766 χ^2/NDF : 25.7/20

All: 227.050+/-233.028 χ^2/NDF : 49.9/38

asym_usl_cor_correction_rms vs Slug, Sign Corrected



Right In: 888.956+/-0.244 χ^2/NDF : 1132766.3/15

Left Out: 1498.329+/-0.741 χ^2/NDF :1512.2/2

Right Out: 889.478+/-0.244 χ^2/NDF : 1345750.2/17

Left In: 1531.365+/-0.829 χ^2/NDF :5255.6/1

Left: 1513.007+/-0.553 χ^2/NDF : 7649.7/4

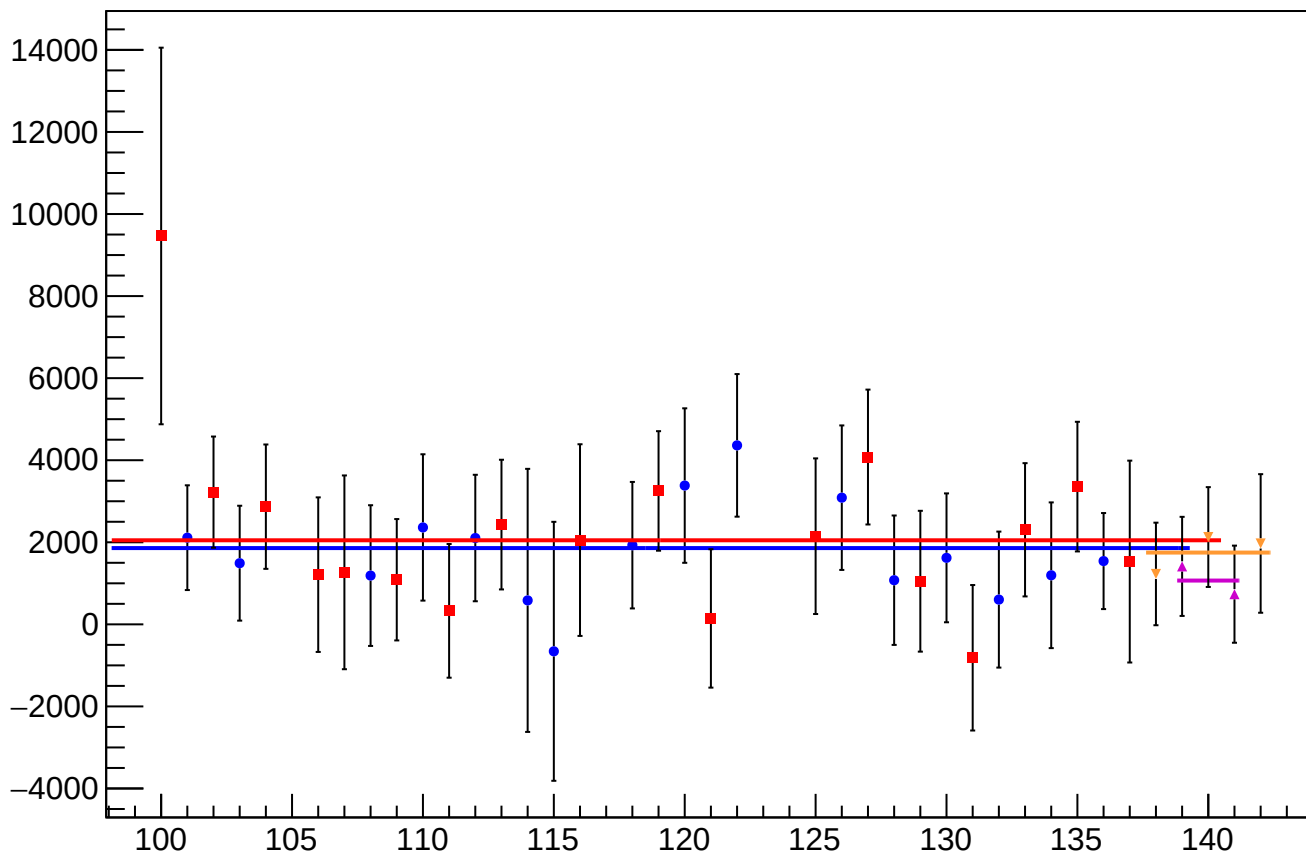
Right: 889.217+/-0.173 χ^2/NDF : 2478518.8/33

In: 940.240+/-0.234 χ^2/NDF :1690193.3/17

Out: 948.960+/-0.232 χ^2/NDF :1955613.2/20

All: 944.648+/-0.165 χ^2/NDF : 3646506.6/38

overload_cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 1858.683+/-409.170 χ^2/NDF : 5.4/15

Left Out: 1749.309+/-774.576 χ^2/NDF : 0.3/2

Right Out: 2048.674+/-408.894 χ^2/NDF : 12.7/17

Left In: 1067.131+/-845.217 χ^2/NDF : 0.2/1

Left: 1437.914+/-571.051 χ^2/NDF : 0.8/4

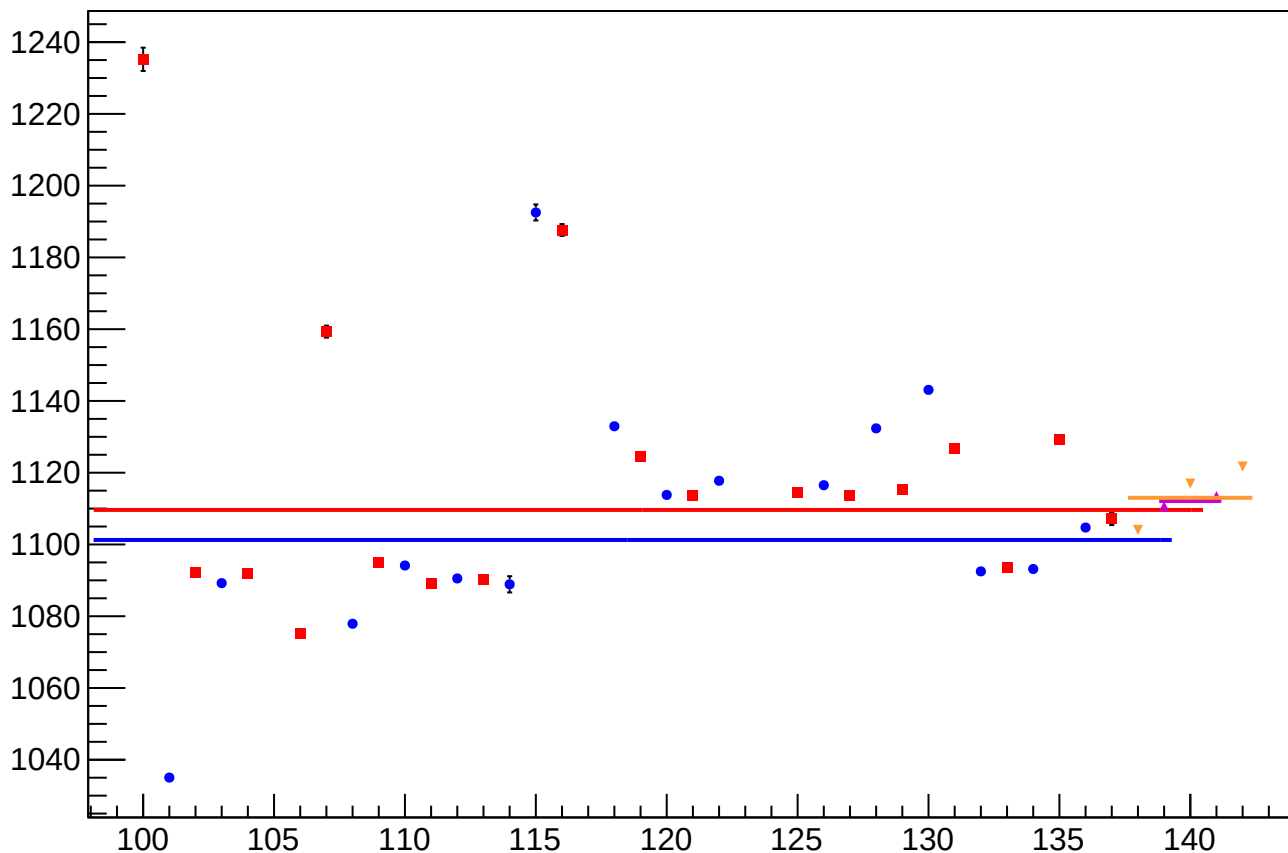
Right: 1953.743+/-289.229 χ^2/NDF : 18.3/33

In: 1708.399+/-368.285 χ^2/NDF : 6.3/17

Out: 1983.431+/-361.602 χ^2/NDF : 13.1/20

All: 1848.433+/-258.022 χ^2/NDF : 19.7/38

overload_cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1101.254+/-0.289 χ^2/NDF : 11308.3/15

Left Out: 1113.010+/-0.548 χ^2/NDF :177.3/2

Right Out: 1109.629+/-0.289 χ^2/NDF : 7673.1/17

Left In: 1112.109+/-0.598 χ^2/NDF :5.6/1

Left: 1112.599+/-0.404 χ^2/NDF : 184.2/4

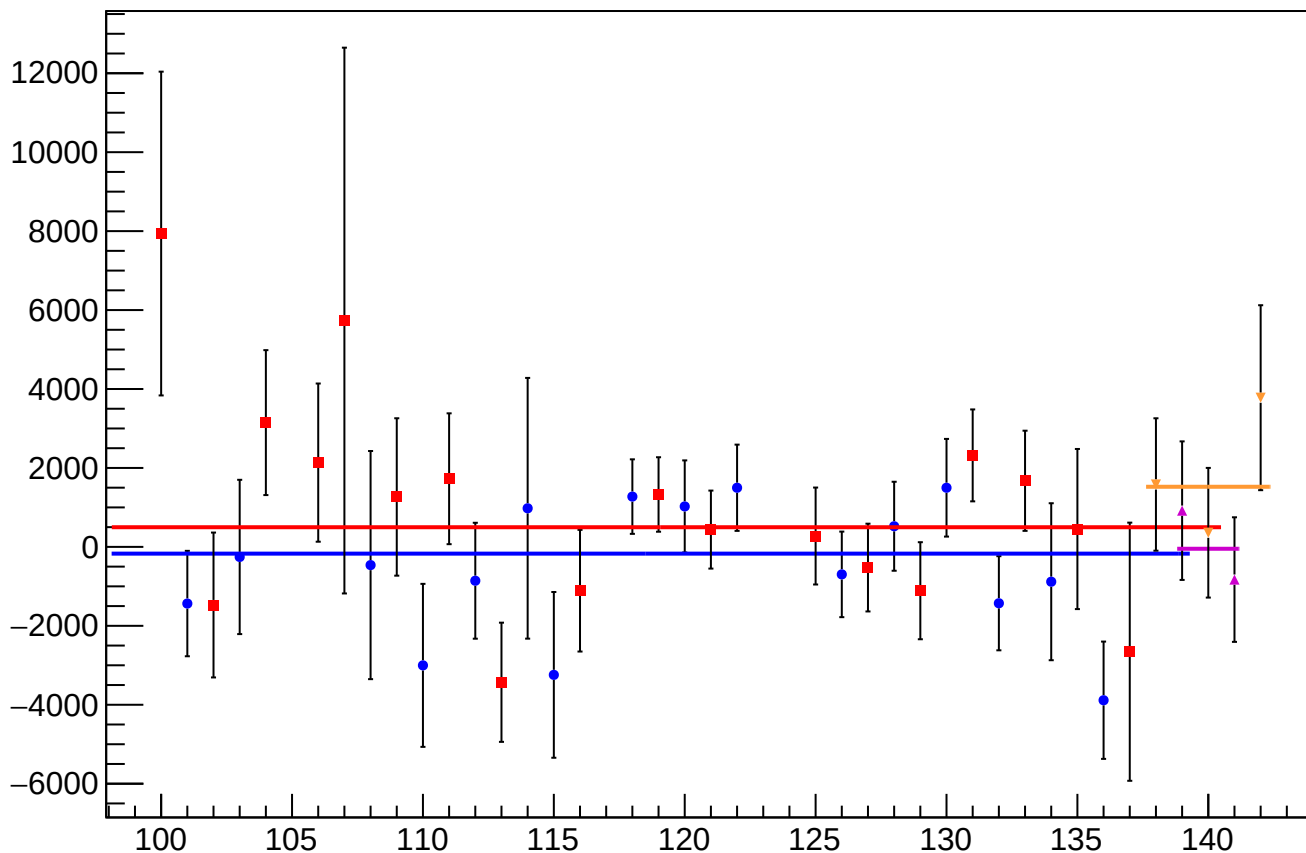
Right: 1105.444+/-0.205 χ^2/NDF : 19400.5/33

In: 1103.315+/-0.260 χ^2/NDF :11581.1/17

Out: 1110.365+/-0.256 χ^2/NDF :7880.2/20

All: 1106.905+/-0.182 χ^2/NDF : 19834.4/38

asym_usl_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: -170.930+/-345.980 χ^2/NDF : 20.9/15

Left Out: 1523.187+/-1049.319 χ^2/NDF :1.4/2

Right Out: 497.957+/-345.565 χ^2/NDF : 23.9/17

Left In: -47.613+/-1173.493 χ^2/NDF :0.5/1

Left: 825.264+/-782.211 χ^2/NDF : 3.0/4

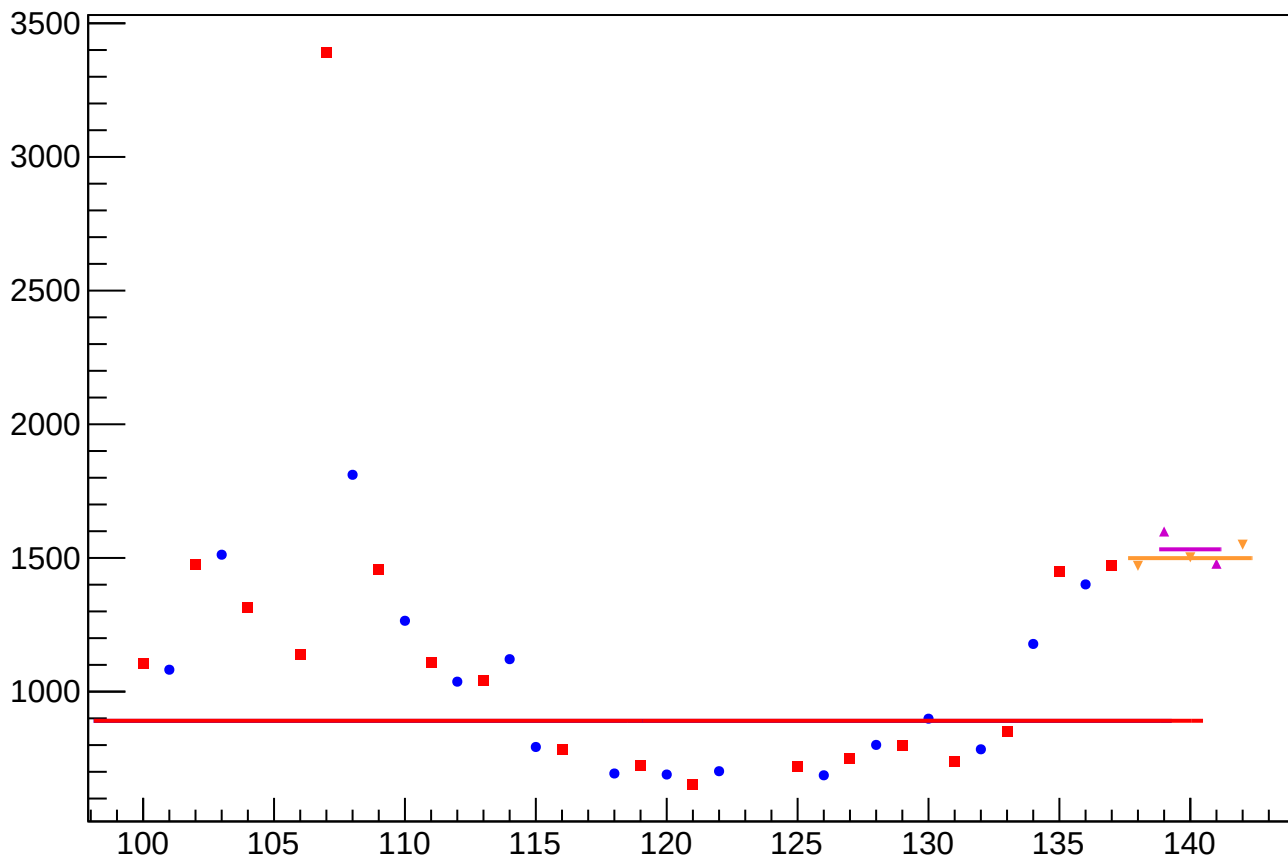
Right: 163.915+/-244.498 χ^2/NDF : 46.7/33

In: -161.068+/-331.858 χ^2/NDF :21.5/17

Out: 598.268+/-328.225 χ^2/NDF :26.2/20

All: 222.779+/-233.364 χ^2/NDF : 50.3/38

asym_usl_overload_cor_correction_rms vs Slug, Sign Corrected



Right In: 890.495+/-0.245 χ^2/NDF : 1128739.3/15

Left Out: 1499.319+/-0.742 χ^2/NDF :1520.9/2

Right Out: 890.938+/-0.244 χ^2/NDF : 1341804.2/17

Left In: 1532.289+/-0.830 χ^2/NDF :5221.3/1

Left: 1513.968+/-0.553 χ^2/NDF : 7619.4/4

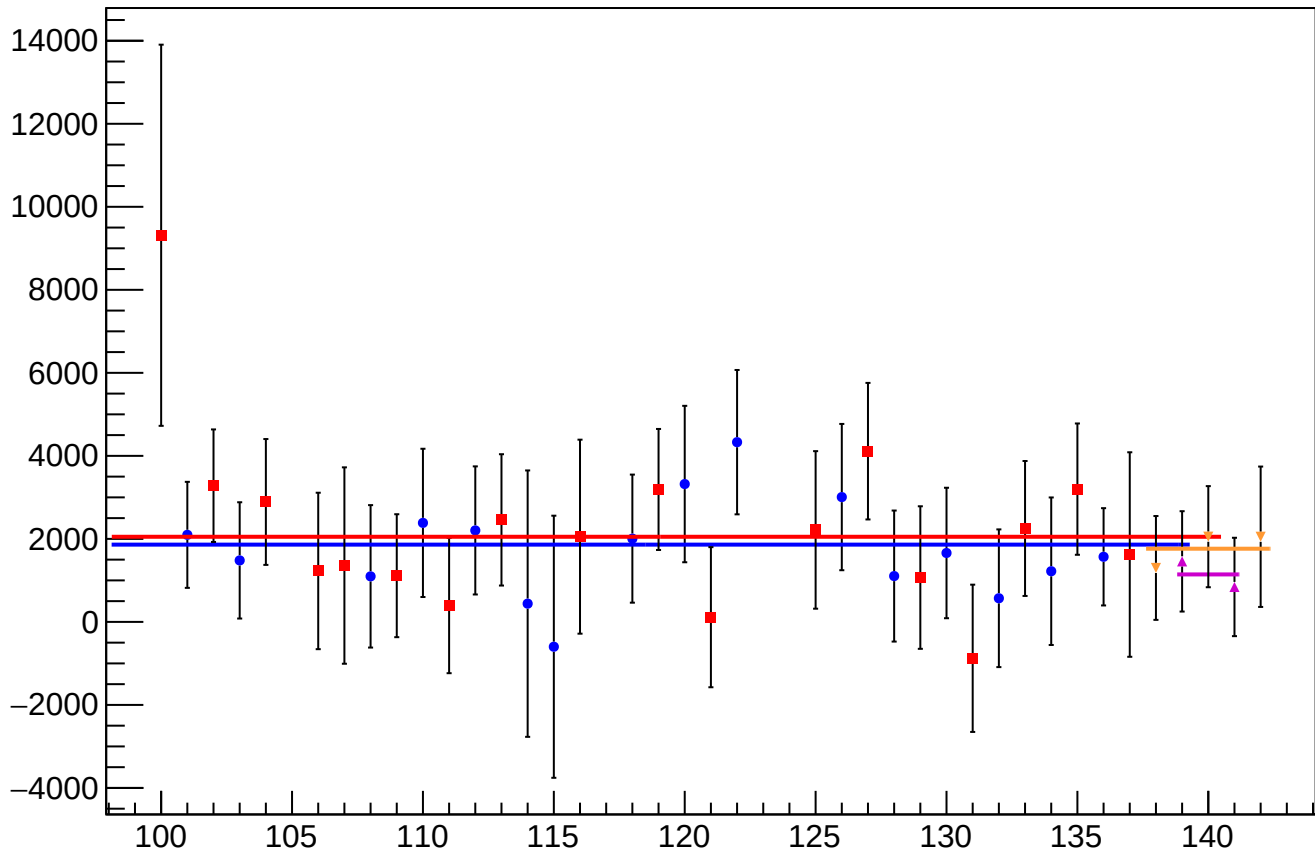
Right: 890.717+/-0.173 χ^2/NDF : 2470545.1/33

In: 941.821+/-0.235 χ^2/NDF :1684339.1/17

Out: 950.464+/-0.232 χ^2/NDF :1949849.4/20

All: 946.190+/-0.165 χ^2/NDF : 3634874.3/38

eigen_cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 1861.525 $\pm$ 409.524 χ^2 /NDF: 5.3/15

Left Out: 1763.126 $\pm$ 775.471 χ^2 /NDF:0.2/2

Right Out: 2050.842 $\pm$ 409.249 χ^2 /NDF: 12.5/17

Left In: 1143.738 $\pm$ 846.169 χ^2 /NDF:0.1/1

Left: 1480.384 $\pm$ 571.704 χ^2 /NDF: 0.6/4

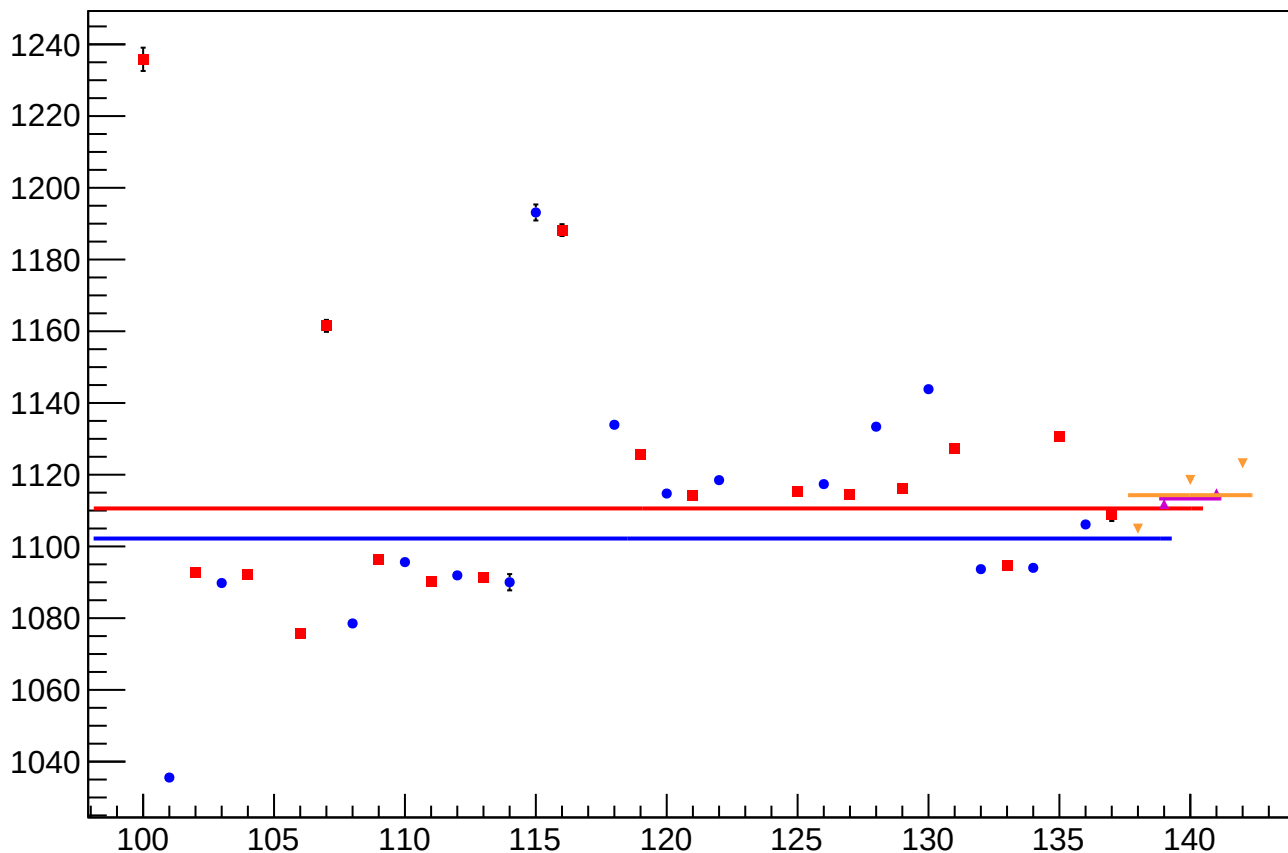
Right: 1956.247 $\pm$ 289.480 χ^2 /NDF: 18.0/33

In: 1725.304 $\pm$ 368.622 χ^2 /NDF:6.1/17

Out: 1988.166 $\pm$ 361.939 χ^2 /NDF:12.9/20

All: 1859.139 $\pm$ 258.260 χ^2 /NDF: 19.2/38

eigen_cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1102.205+/-0.290 χ^2/NDF : 11348.9/15

Left Out: 1114.294+/-0.548 χ^2/NDF :191.1/2

Right Out: 1110.592+/-0.289 χ^2/NDF : 7696.0/17

Left In: 1113.359+/-0.598 χ^2/NDF :6.2/1

Left: 1113.867+/-0.404 χ^2/NDF : 198.6/4

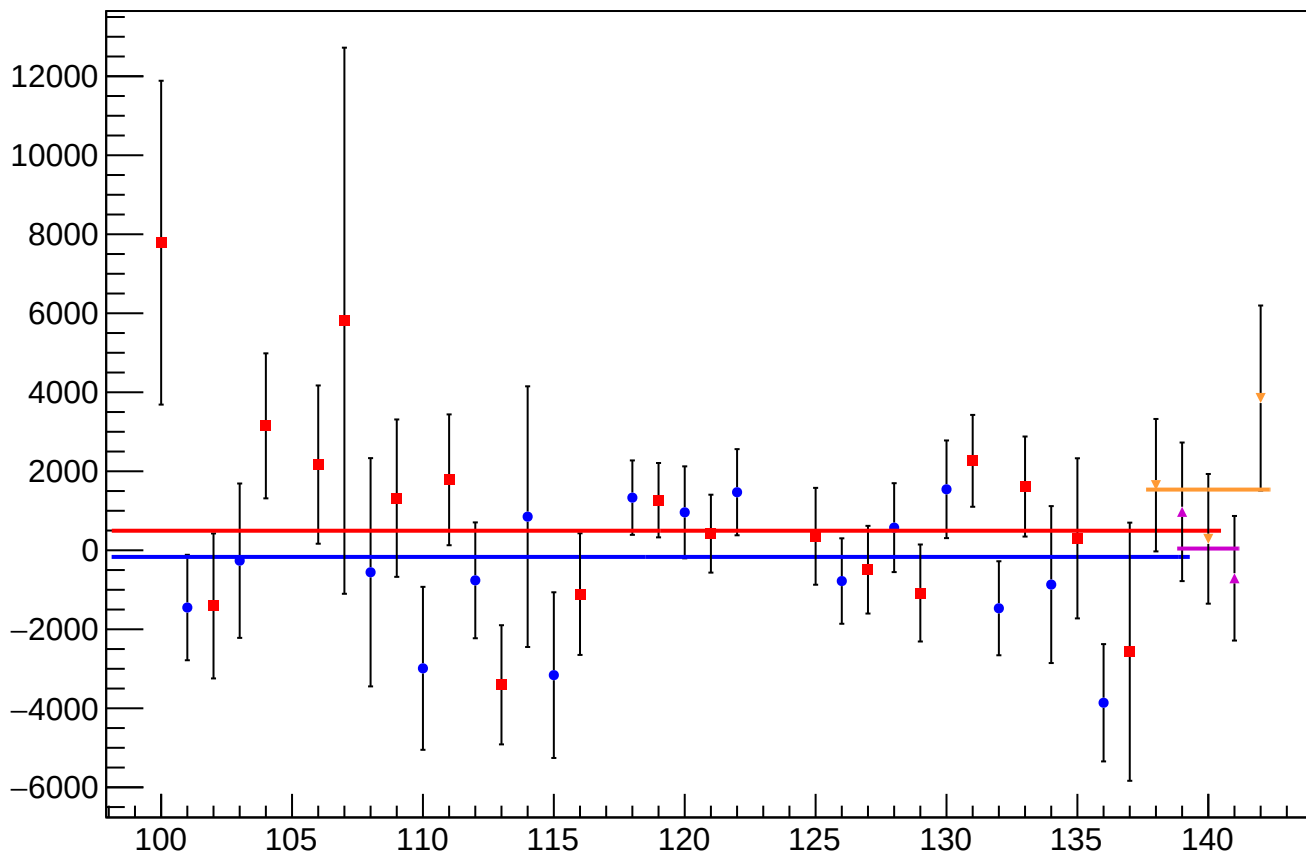
Right: 1106.401+/-0.205 χ^2/NDF : 19464.6/33

In: 1104.322+/-0.261 χ^2/NDF :11636.7/17

Out: 1111.398+/-0.256 χ^2/NDF :7922.8/20

All: 1107.925+/-0.183 χ^2/NDF : 19934.7/38

asym_usl_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -167.891+/-345.441 χ^2/NDF : 21.0/15

Left Out: 1536.724+/-1048.639 χ^2/NDF :1.6/2

Right Out: 495.172+/-345.054 χ^2/NDF : 23.3/17

Left In: 43.728+/-1172.799 χ^2/NDF :0.5/1

Left: 873.412+/-781.723 χ^2/NDF : 3.0/4

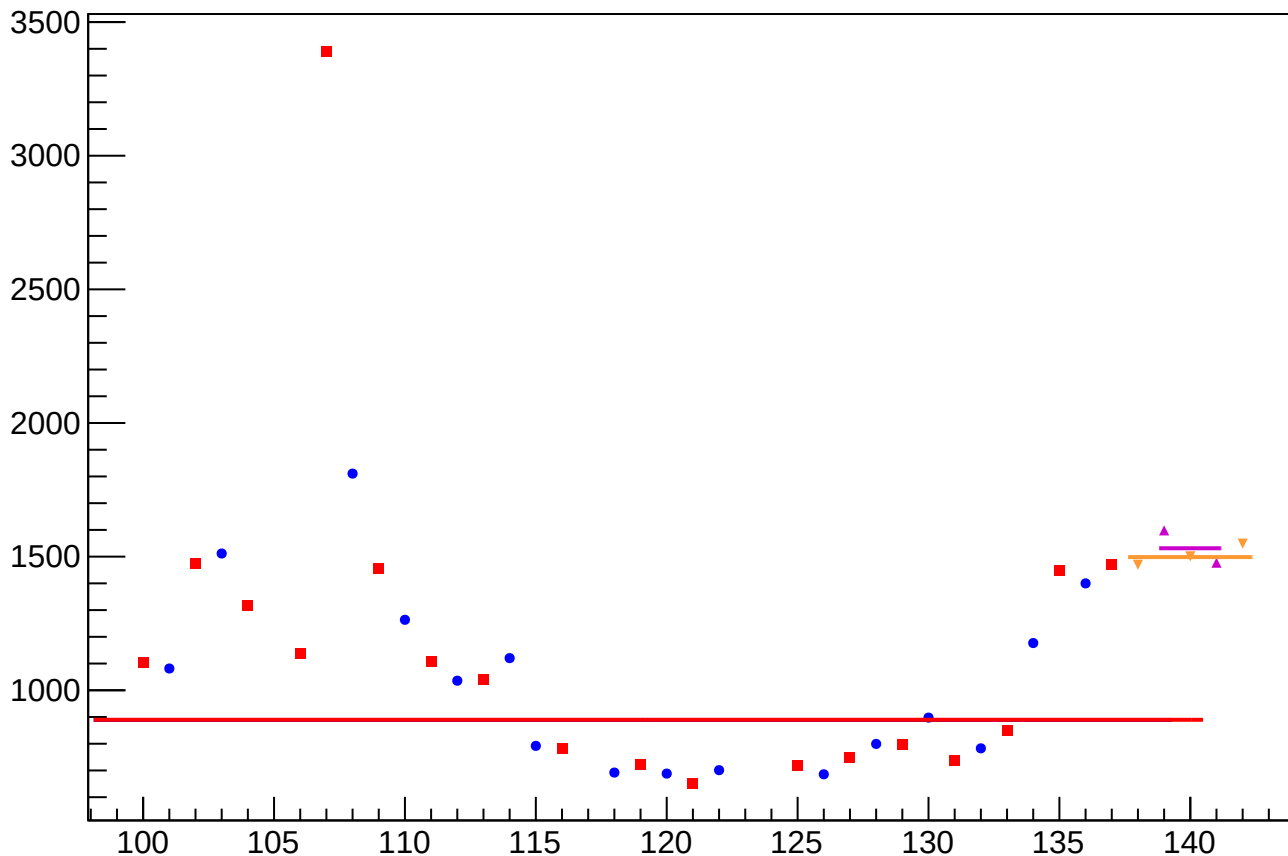
Right: 164.012+/-244.127 χ^2/NDF : 46.1/33

In: -150.998+/-331.366 χ^2/NDF :21.5/17

Out: 596.928+/-327.766 χ^2/NDF :25.7/20

All: 227.050+/-233.028 χ^2/NDF : 49.9/38

asym_usl_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 888.956 $\pm$ 0.244 χ^2/NDF : 1132766.3/15

Left Out: 1498.329 $\pm$ 0.741 χ^2/NDF :1512.2/2

Right Out: 889.478 $\pm$ 0.244 χ^2/NDF : 1345750.2/17

Left In: 1531.365 $\pm$ 0.829 χ^2/NDF :5255.6/1

Left: 1513.007 $\pm$ 0.553 χ^2/NDF : 7649.7/4

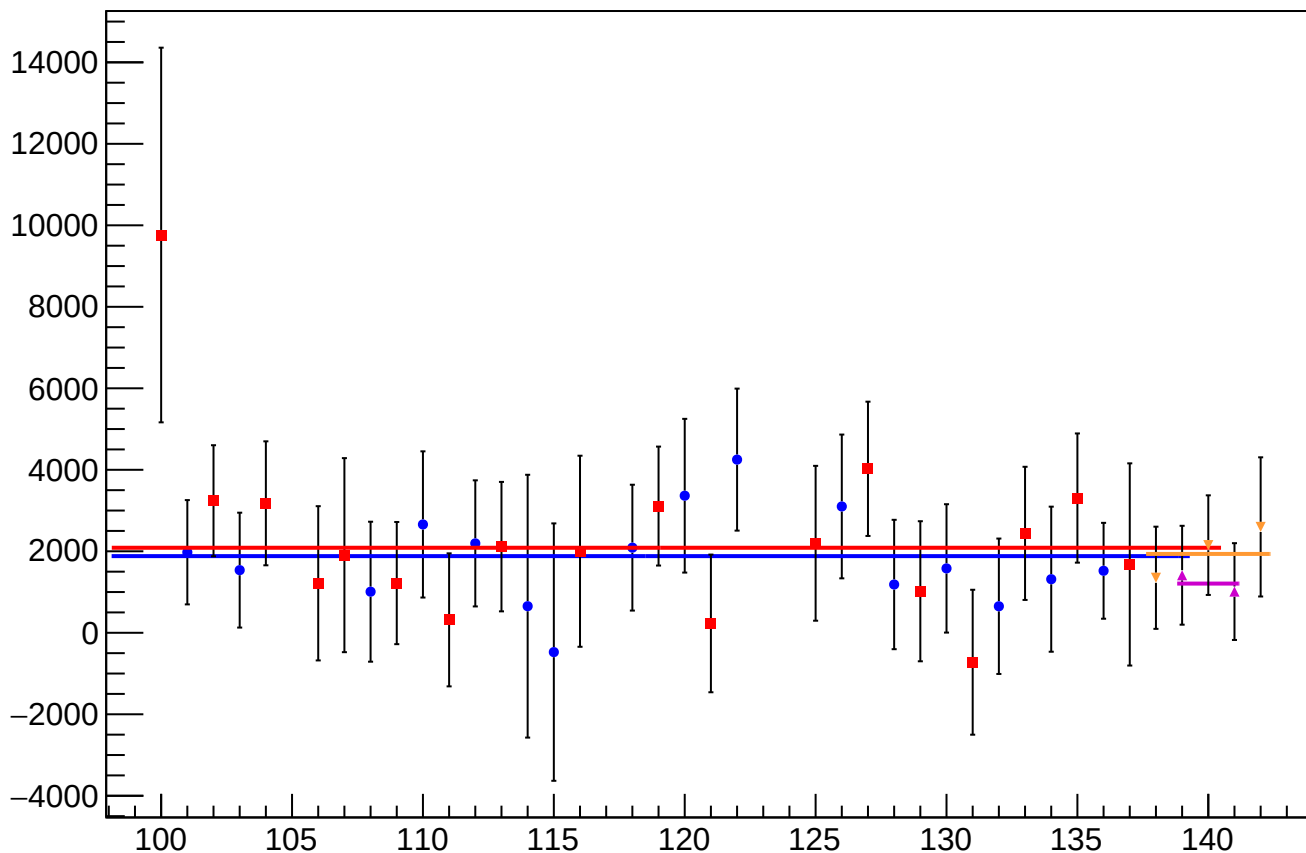
Right: 889.217 $\pm$ 0.173 χ^2/NDF : 2478518.8/33

In: 940.240 $\pm$ 0.234 χ^2/NDF :1690193.3/17

Out: 948.960 $\pm$ 0.232 χ^2/NDF :1955613.2/20

All: 944.648 $\pm$ 0.165 χ^2/NDF : 3646506.6/38

dit_asym_usl_mean vs Slug, Sign Corrected



Right In: 1881.524 $\pm$ 410.700 χ^2 /NDF: 5.2/15

Left Out: 1935.130 $\pm$ 778.886 χ^2 /NDF:0.4/2

Right Out: 2086.886 $\pm$ 410.785 χ^2 /NDF: 12.4/17

Left In: 1207.573 $\pm$ 848.745 χ^2 /NDF:0.1/1

Left: 1602.522 $\pm$ 573.866 χ^2 /NDF: 0.9/4

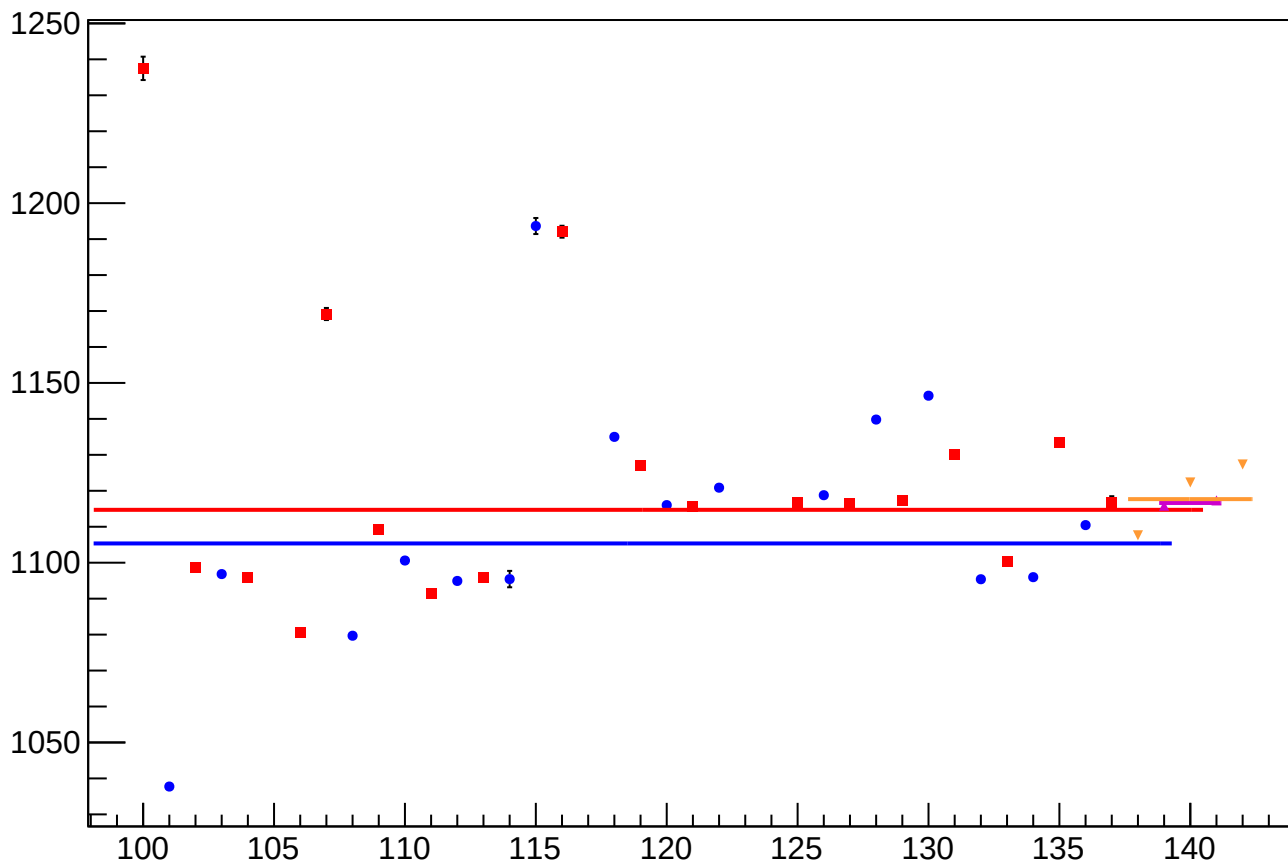
Right: 1984.184 $\pm$ 290.439 χ^2 /NDF: 17.7/33

In: 1753.658 $\pm$ 369.693 χ^2 /NDF:5.8/17

Out: 2053.861 $\pm$ 363.349 χ^2 /NDF:12.8/20

All: 1906.357 $\pm$ 259.140 χ^2 /NDF: 18.9/38

dit_asym_usl_rms vs Slug, Sign Corrected



Right In: 1105.355 $\pm$ 0.290 χ^2 /NDF: 11330.9/15

Left Out: 1117.683 $\pm$ 0.551 χ^2 /NDF:221.3/2

Right Out: 1114.705 $\pm$ 0.290 χ^2 /NDF: 7330.3/17

Left In: 1116.611 $\pm$ 0.600 χ^2 /NDF:1.5/1

Left: 1117.193 $\pm$ 0.406 χ^2 /NDF: 224.6/4

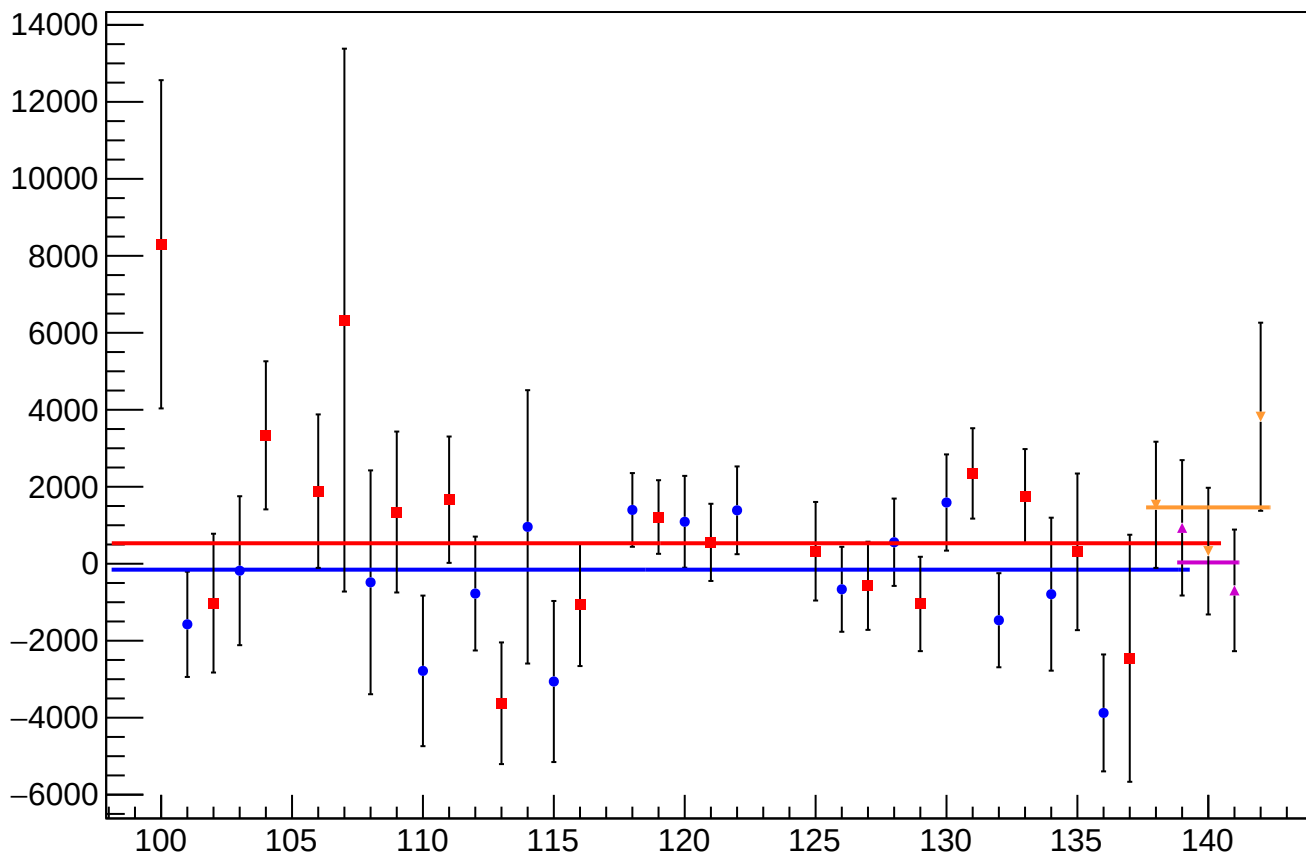
Right: 1110.029 $\pm$ 0.205 χ^2 /NDF: 19179.4/33

In: 1107.491 $\pm$ 0.261 χ^2 /NDF:11617.4/17

Out: 1115.353 $\pm$ 0.257 χ^2 /NDF:7574.5/20

All: 1111.490 $\pm$ 0.183 χ^2 /NDF: 19652.0/38

asym_usl_dit_correction_mean vs Slug, Sign Corrected



Right In: -153.999+/-351.318 χ^2/NDF : 20.5/15

Left Out: 1464.056+/-1048.887 χ^2/NDF : 1.4/2

Right Out: 532.155+/-350.407 χ^2/NDF : 23.2/17

Left In: 33.574+/-1175.291 χ^2/NDF : 0.5/1

Left: 829.851+/-782.563 χ^2/NDF : 2.7/4

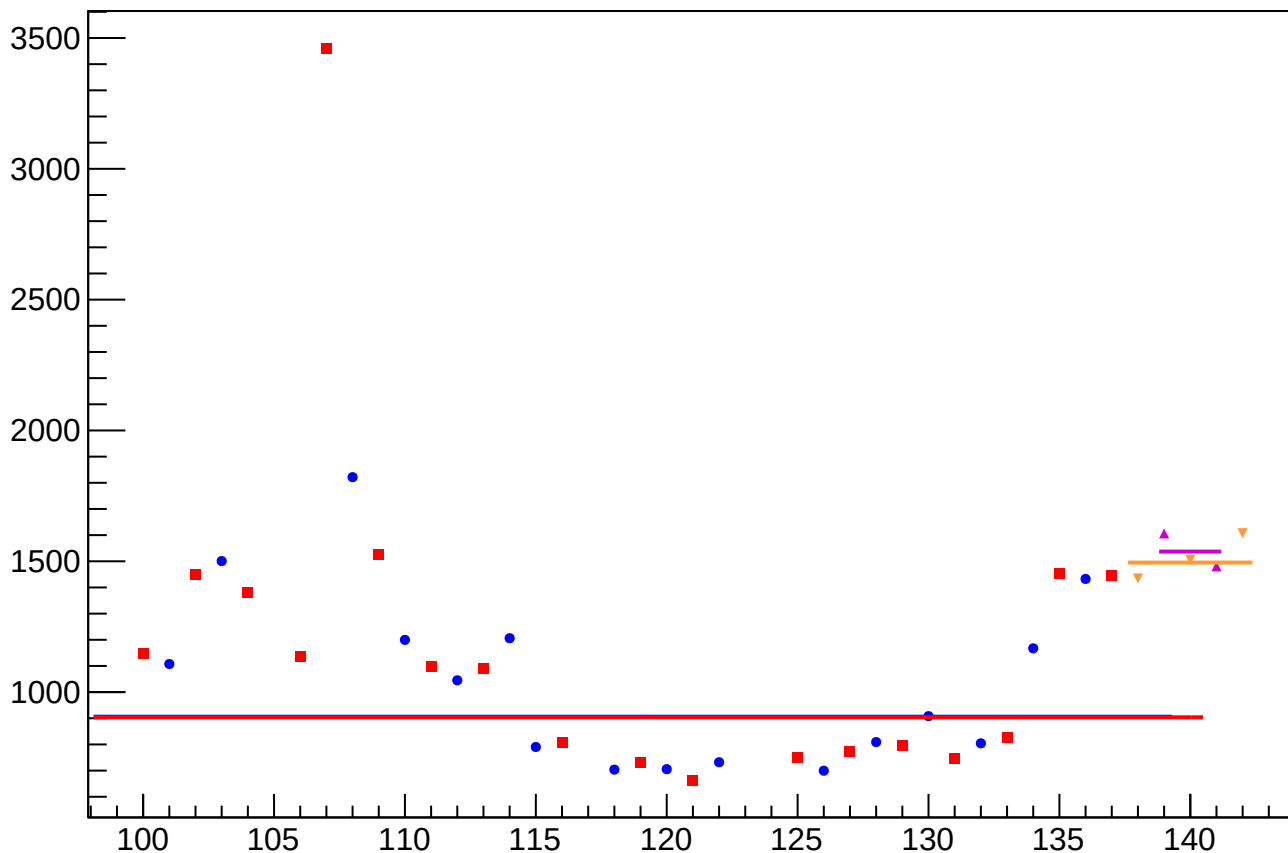
Right: 189.968+/-248.097 χ^2/NDF : 45.6/33

In: -138.614+/-336.601 χ^2/NDF : 21.0/17

Out: 625.719+/-332.351 χ^2/NDF : 25.3/20

All: 248.408+/-236.496 χ^2/NDF : 48.9/38

asym_usl_dit_correction_rms vs Slug, Sign Corrected



Right In: 906.036 $\pm$ 0.248 χ^2 /NDF: 1079435.1/15

Left Out: 1495.181 $\pm$ 0.742 χ^2 /NDF: 7034.2/2

Right Out: 903.753 $\pm$ 0.248 χ^2 /NDF: 1339982.2/17

Left In: 1537.080 $\pm$ 0.831 χ^2 /NDF: 5644.9/1

Left: 1513.757 $\pm$ 0.553 χ^2 /NDF: 14094.0/4

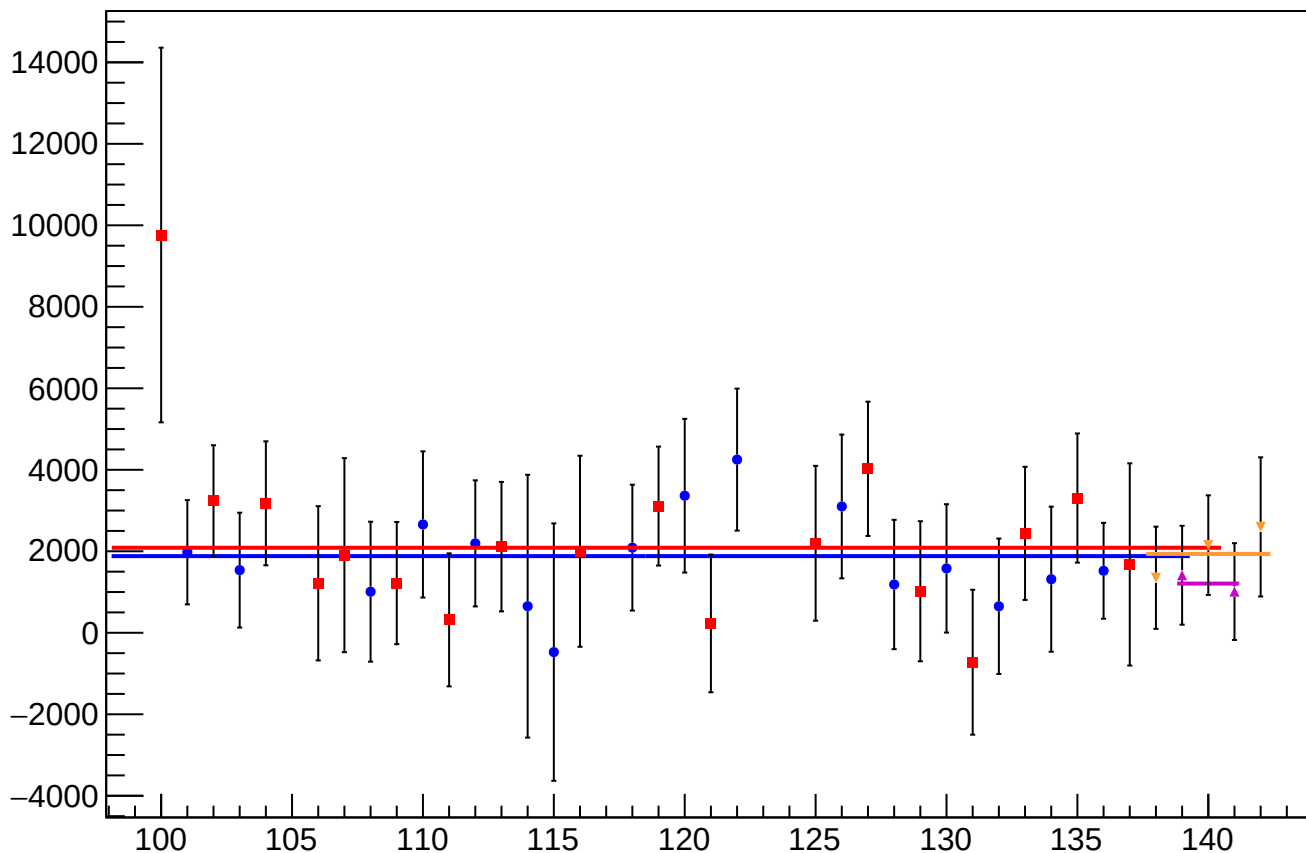
Right: 904.892 $\pm$ 0.175 χ^2 /NDF: 2419459.6/33

In: 957.796 $\pm$ 0.238 χ^2 /NDF: 1614365.5/17

Out: 963.133 $\pm$ 0.235 χ^2 /NDF: 1919055.2/20

All: 960.499 $\pm$ 0.167 χ^2 /NDF: 3533675.2/38

eigen_dit_asym_usl_mean vs Slug, Sign Corrected



Right In: 1881.523+/-410.700 χ^2/NDF : 5.2/15

Left Out: 1935.133+/-778.885 χ^2/NDF : 0.4/2

Right Out: 2086.884+/-410.785 χ^2/NDF : 12.4/17

Left In: 1207.576+/-848.745 χ^2/NDF : 0.1/1

Left: 1602.524+/-573.866 χ^2/NDF : 0.9/4

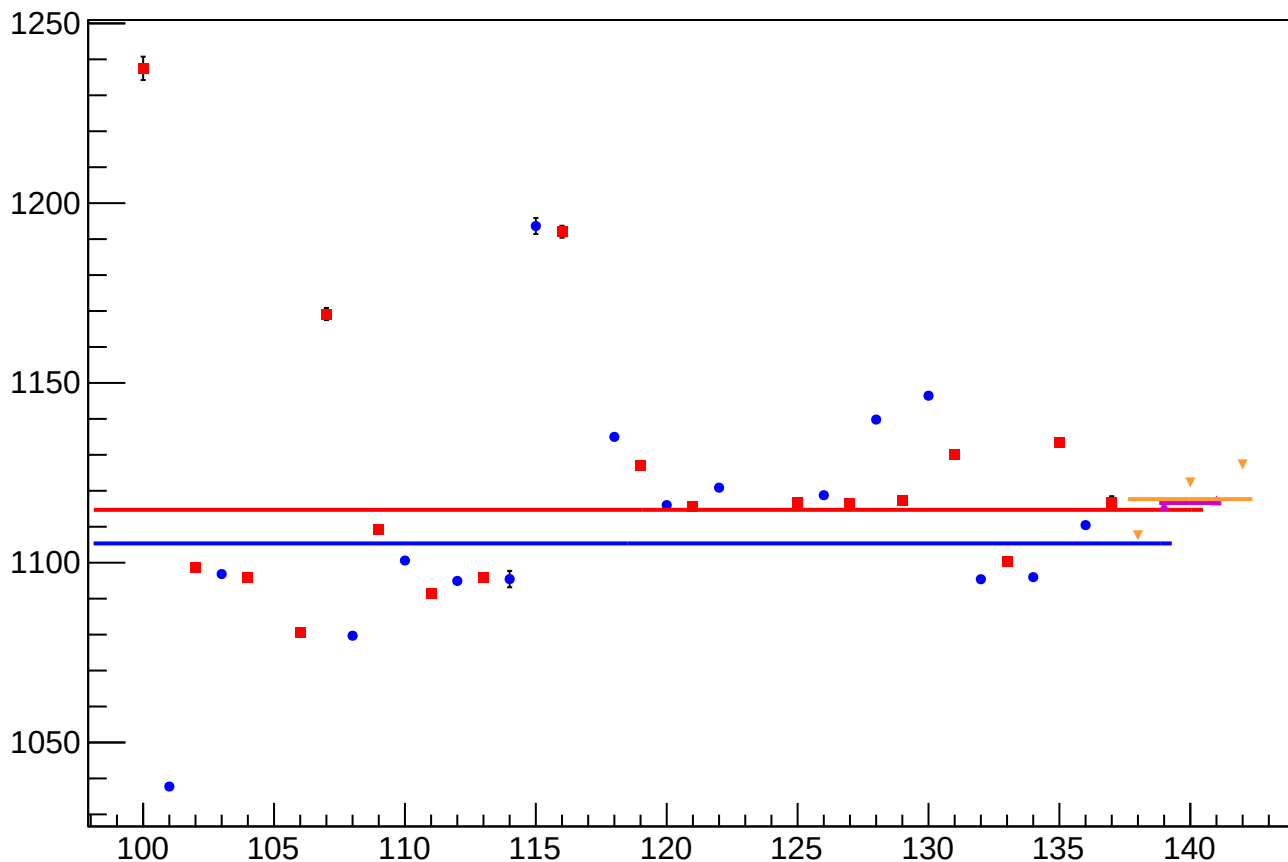
Right: 1984.182+/-290.439 χ^2/NDF : 17.7/33

In: 1753.658+/-369.693 χ^2/NDF : 5.8/17

Out: 2053.860+/-363.349 χ^2/NDF : 12.8/20

All: 1906.357+/-259.140 χ^2/NDF : 18.9/38

eigen_dit_asym_usl_rms vs Slug, Sign Corrected



Right In: 1105.355+/-0.290 χ^2/NDF : 11330.9/15

Left Out: 1117.683+/-0.551 χ^2/NDF :221.3/2

Right Out: 1114.705+/-0.290 χ^2/NDF : 7330.2/17

Left In: 1116.611+/-0.600 χ^2/NDF :1.5/1

Left: 1117.193+/-0.406 χ^2/NDF : 224.6/4

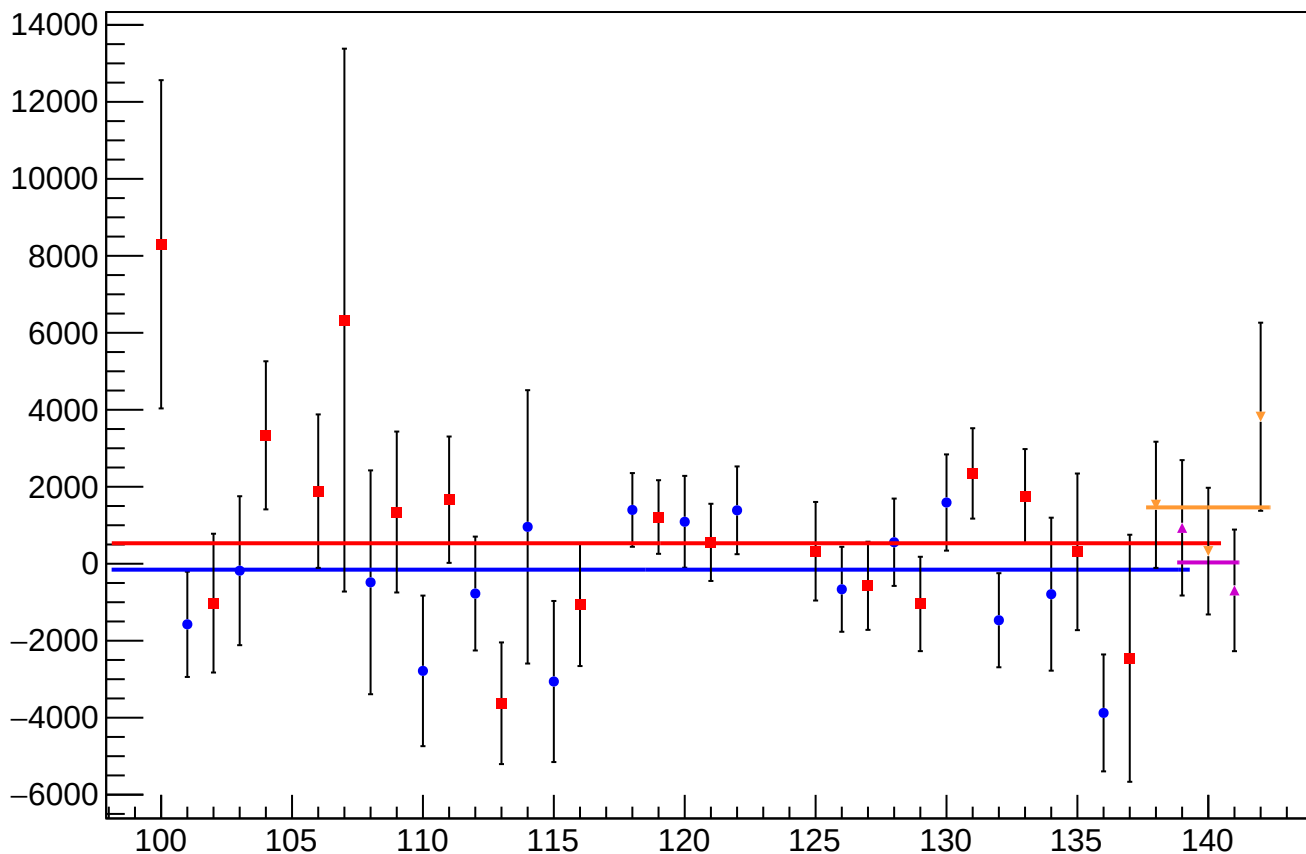
Right: 1110.029+/-0.205 χ^2/NDF : 19179.3/33

In: 1107.491+/-0.261 χ^2/NDF :11617.4/17

Out: 1115.353+/-0.257 χ^2/NDF :7574.4/20

All: 1111.490+/-0.183 χ^2/NDF : 19652.0/38

asym_usl_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -153.998+/-351.317 χ^2/NDF : 20.5/15

Left Out: 1464.059+/-1048.888 χ^2/NDF :1.4/2

Right Out: 532.154+/-350.406 χ^2/NDF : 23.2/17

Left In: 33.577+/-1175.293 χ^2/NDF :0.5/1

Left: 829.853+/-782.564 χ^2/NDF : 2.7/4

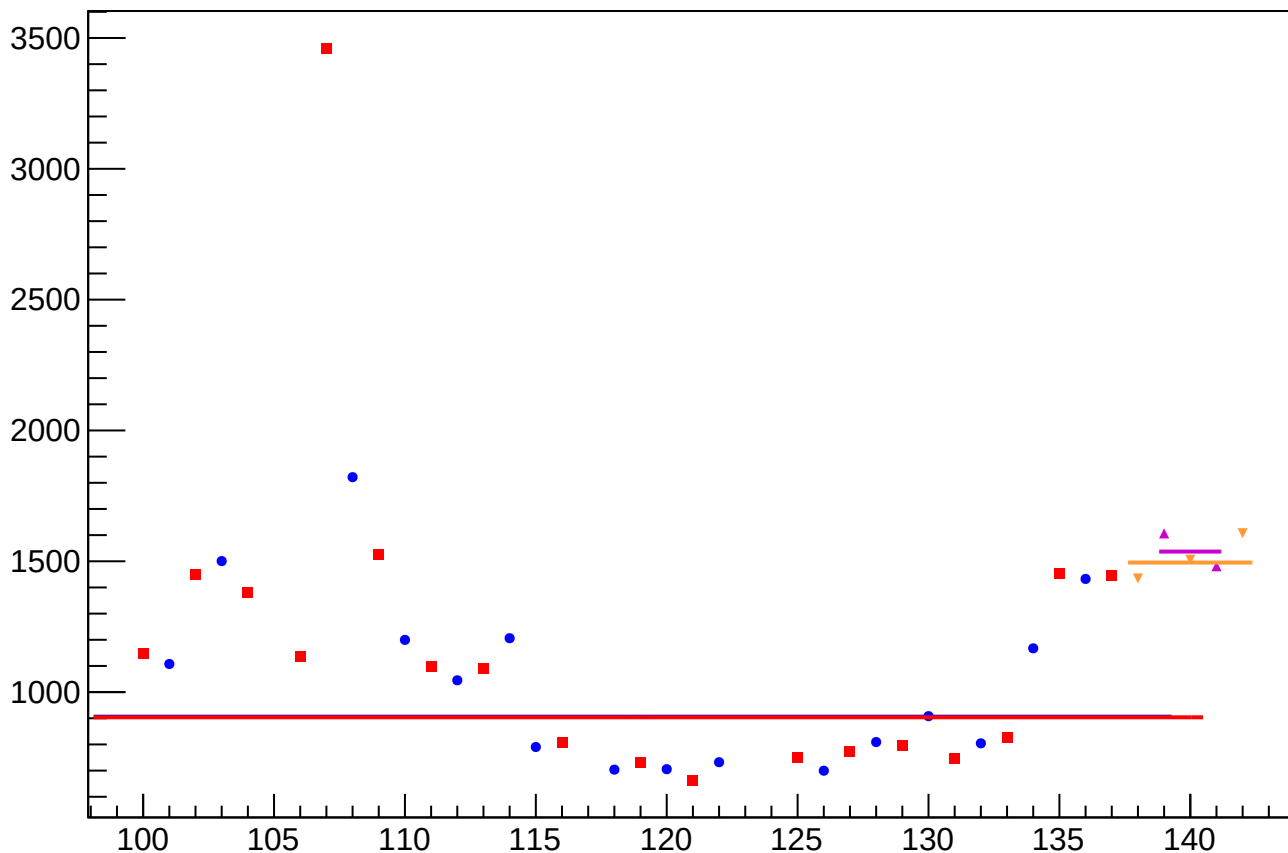
Right: 189.969+/-248.096 χ^2/NDF : 45.6/33

In: -138.612+/-336.601 χ^2/NDF :21.0/17

Out: 625.718+/-332.351 χ^2/NDF :25.3/20

All: 248.409+/-236.496 χ^2/NDF : 48.9/38

asym_usl_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 906.034+/-0.248 χ^2/NDF : 1079440.1/15

Left Out: 1495.183+/-0.742 χ^2/NDF : 7034.0/2

Right Out: 903.751+/-0.248 χ^2/NDF : 1339985.4/17

Left In: 1537.082+/-0.831 χ^2/NDF : 5645.0/1

Left: 1513.759+/-0.553 χ^2/NDF : 14093.9/4

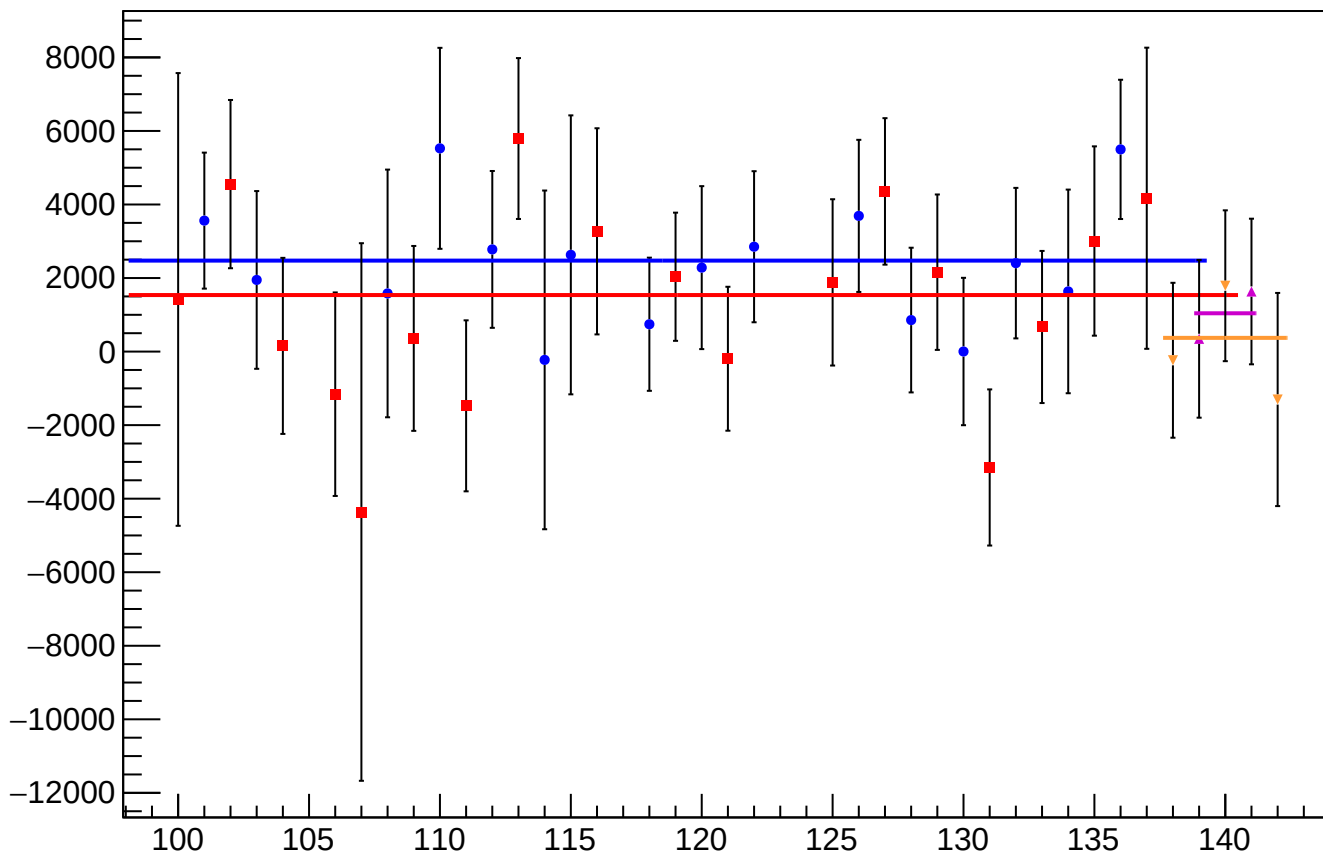
Right: 904.890+/-0.175 χ^2/NDF : 2419467.8/33

In: 957.795+/-0.238 χ^2/NDF : 1614375.9/17

Out: 963.131+/-0.235 χ^2/NDF : 1919064.8/20

All: 960.497+/-0.167 χ^2/NDF : 3533695.3/38

asym_usl_mean vs Slug, Sign Corrected



Right In: 2474.066+/-562.796 χ^2/NDF : 8.2/15

Left Out: 373.135+/-1310.631 χ^2/NDF : 0.9/2

Right Out: 1537.435+/-563.556 χ^2/NDF : 18.5/17

Left In: 1041.686+/-1454.860 χ^2/NDF : 0.2/1

Left: 672.638+/-973.766 χ^2/NDF : 1.2/4

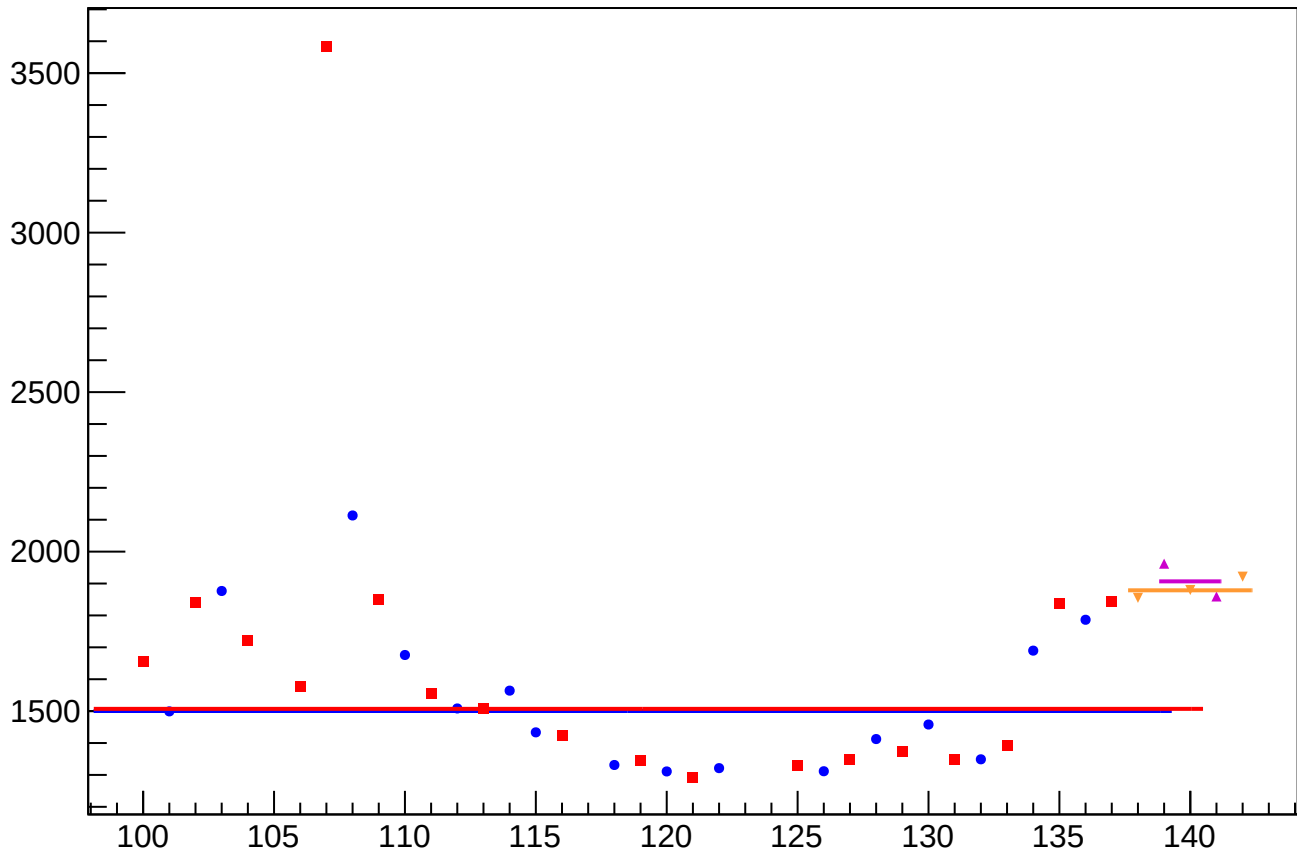
Right: 2006.383+/-398.225 χ^2/NDF : 28.1/33

In: 2287.619+/-524.891 χ^2/NDF : 9.3/17

Out: 1355.758+/-517.724 χ^2/NDF : 20.1/20

All: 1815.283+/-368.594 χ^2/NDF : 30.9/38

asym_usl_rms vs Slug, Sign Corrected



Right In: 1500.377+/-0.398 χ^2/NDF : 258792.8/15

Left Out: 1878.721+/-0.927 χ^2/NDF : 686.7/2

Right Out: 1507.098+/-0.398 χ^2/NDF : 401227.7/17

Left In: 1906.768+/-1.029 χ^2/NDF : 2479.8/1

Left: 1891.286+/-0.689 χ^2/NDF : 3576.8/4

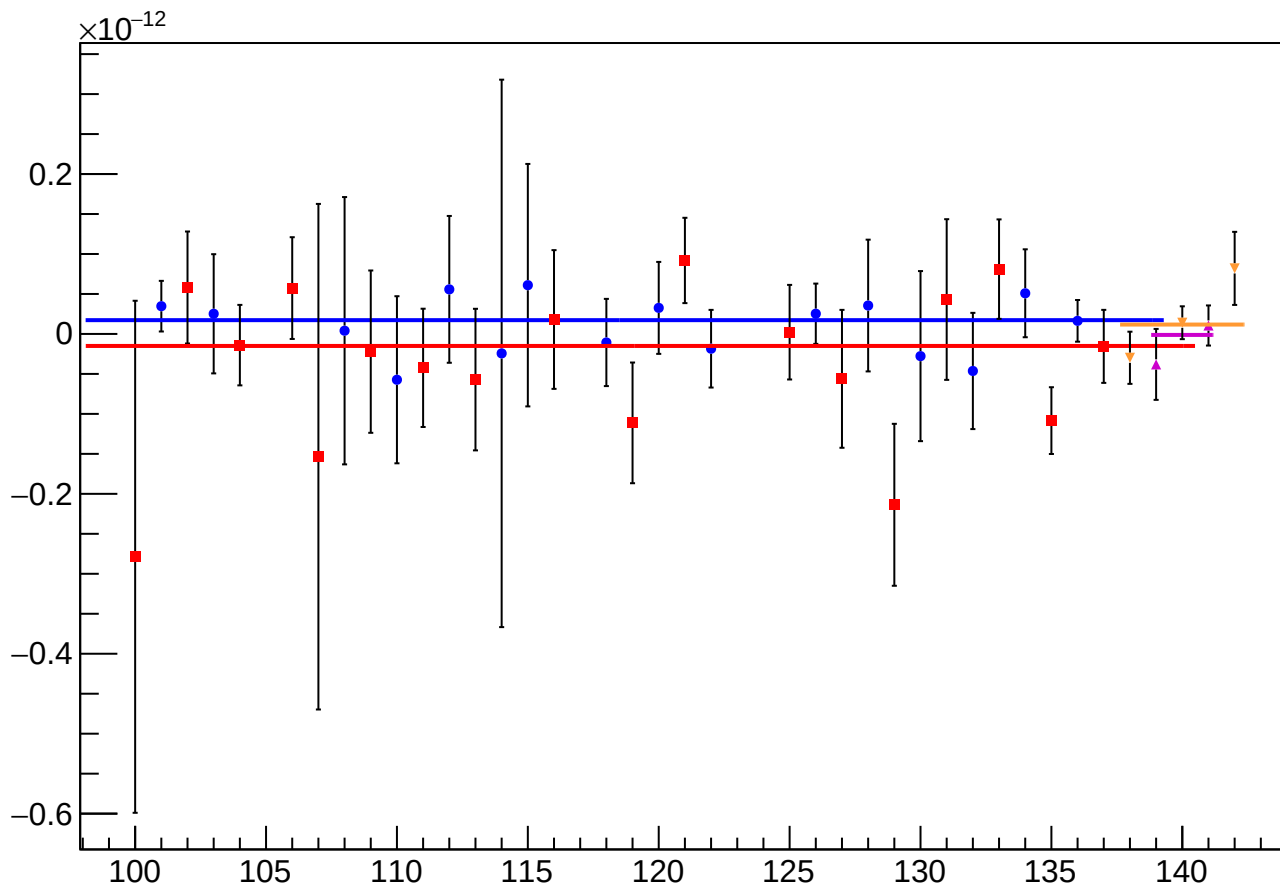
Right: 1503.733+/-0.282 χ^2/NDF : 660162.8/33

In: 1553.275+/-0.371 χ^2/NDF : 397013.7/17

Out: 1565.086+/-0.366 χ^2/NDF : 537619.9/20

All: 1559.262+/-0.261 χ^2/NDF : 935146.8/38

asym_usl_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 4.0/2

Right Out: -0.000+/-0.000 χ^2/NDF : 21.3/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.9/1

Left: 0.000+/-0.000 χ^2/NDF : 5.1/4

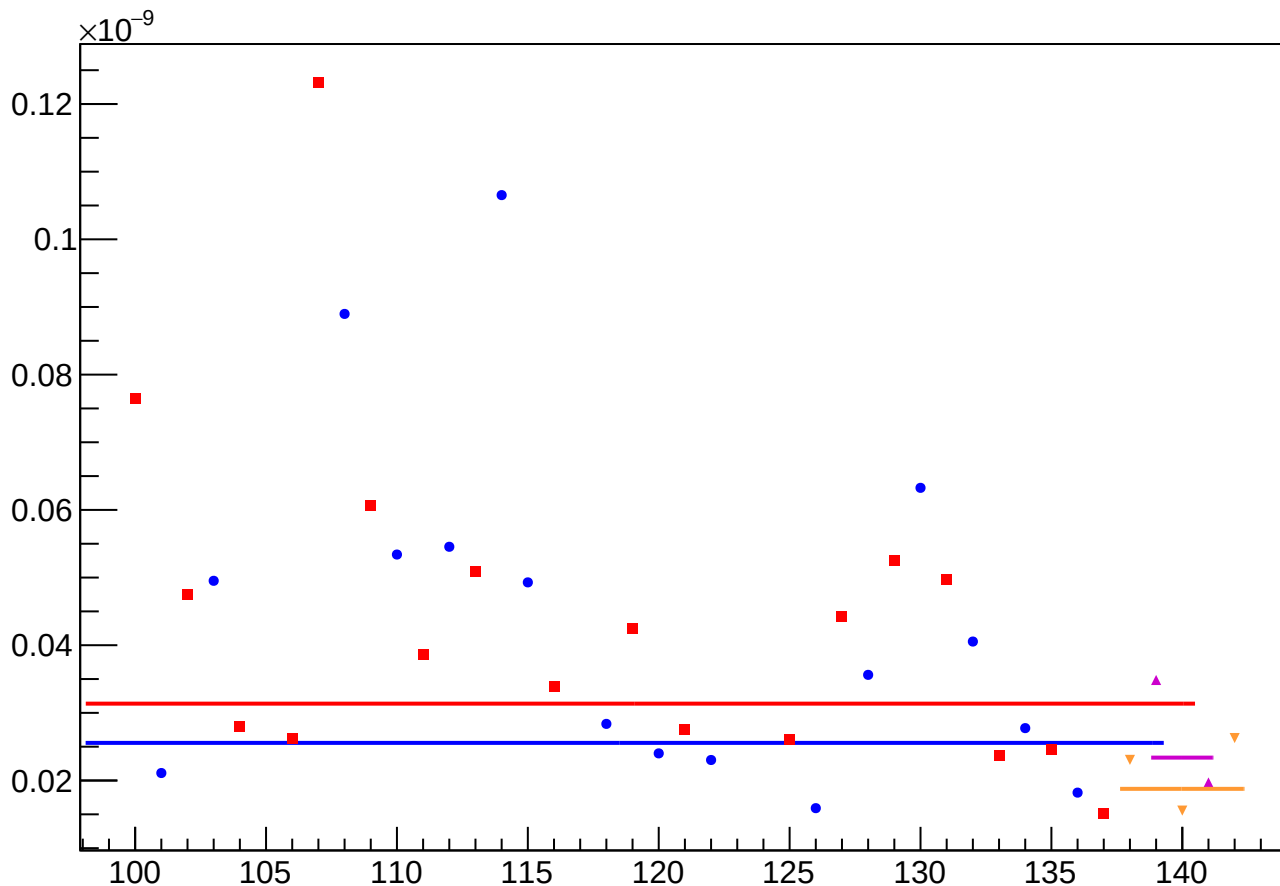
Right: 0.000+/-0.000 χ^2/NDF : 27.0/33

In: 0.000+/-0.000 χ^2/NDF : 4.8/17

Out: -0.000+/-0.000 χ^2/NDF : 26.7/20

All: 0.000+/-0.000 χ^2/NDF : 32.2/38

asym_usl_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1707801.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :137462.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1228078.8/17

Left In: 0.000+/-0.000 χ^2/NDF :176686.8/1

Left: 0.000+/-0.000 χ^2/NDF : 371693.4/4

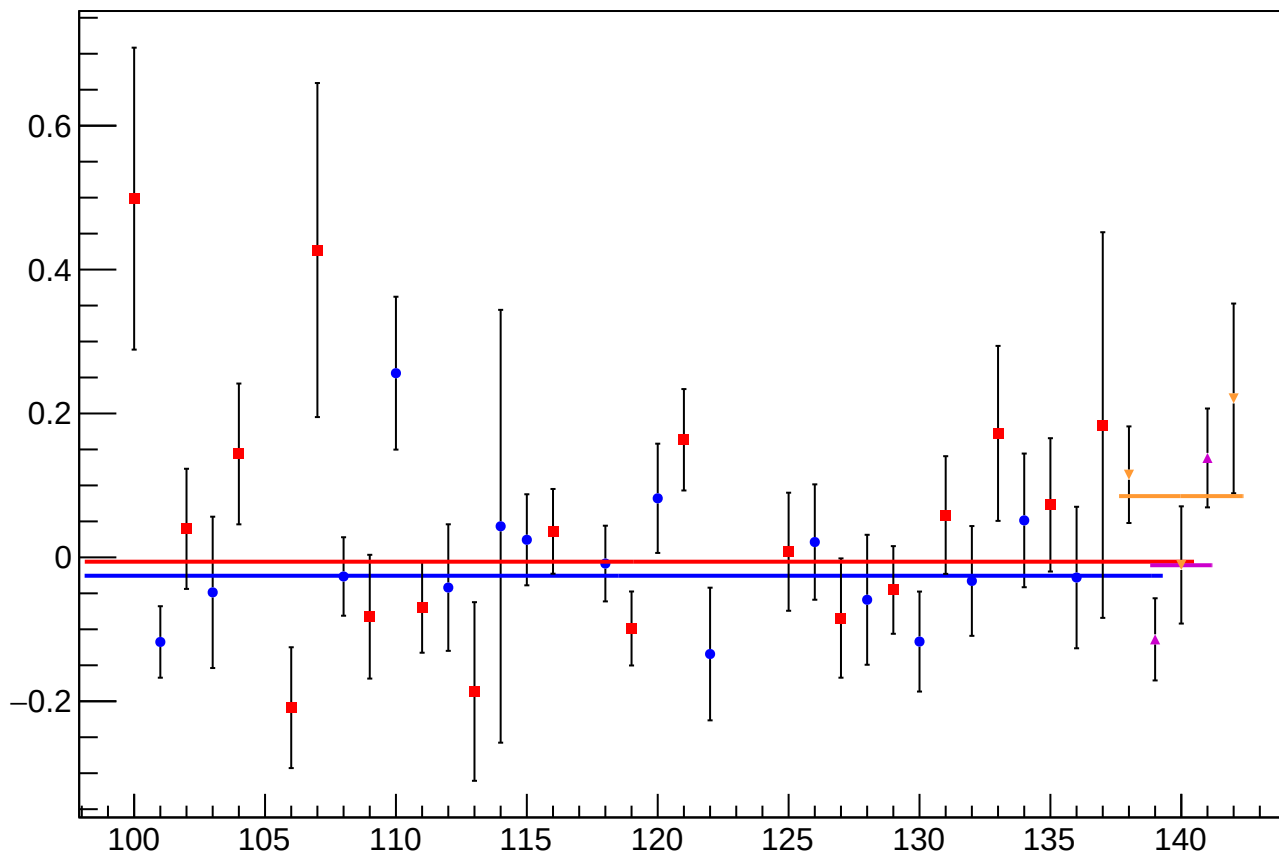
Right: 0.000+/-0.000 χ^2/NDF : 3088169.6/33

In: 0.000+/-0.000 χ^2/NDF :1898876.6/17

Out: 0.000+/-0.000 χ^2/NDF :1972116.5/20

All: 0.000+/-0.000 χ^2/NDF : 3871205.4/38

asym_usl_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.026 ± 0.019 χ^2/NDF : 17.6/15

Left Out: 0.085 ± 0.048 χ^2/NDF : 2.6/2

Right Out: -0.006 ± 0.019 χ^2/NDF : 36.5/17

Left In: -0.011 ± 0.044 χ^2/NDF : 8.0/1

Left: 0.033 ± 0.032 χ^2/NDF : 12.8/4

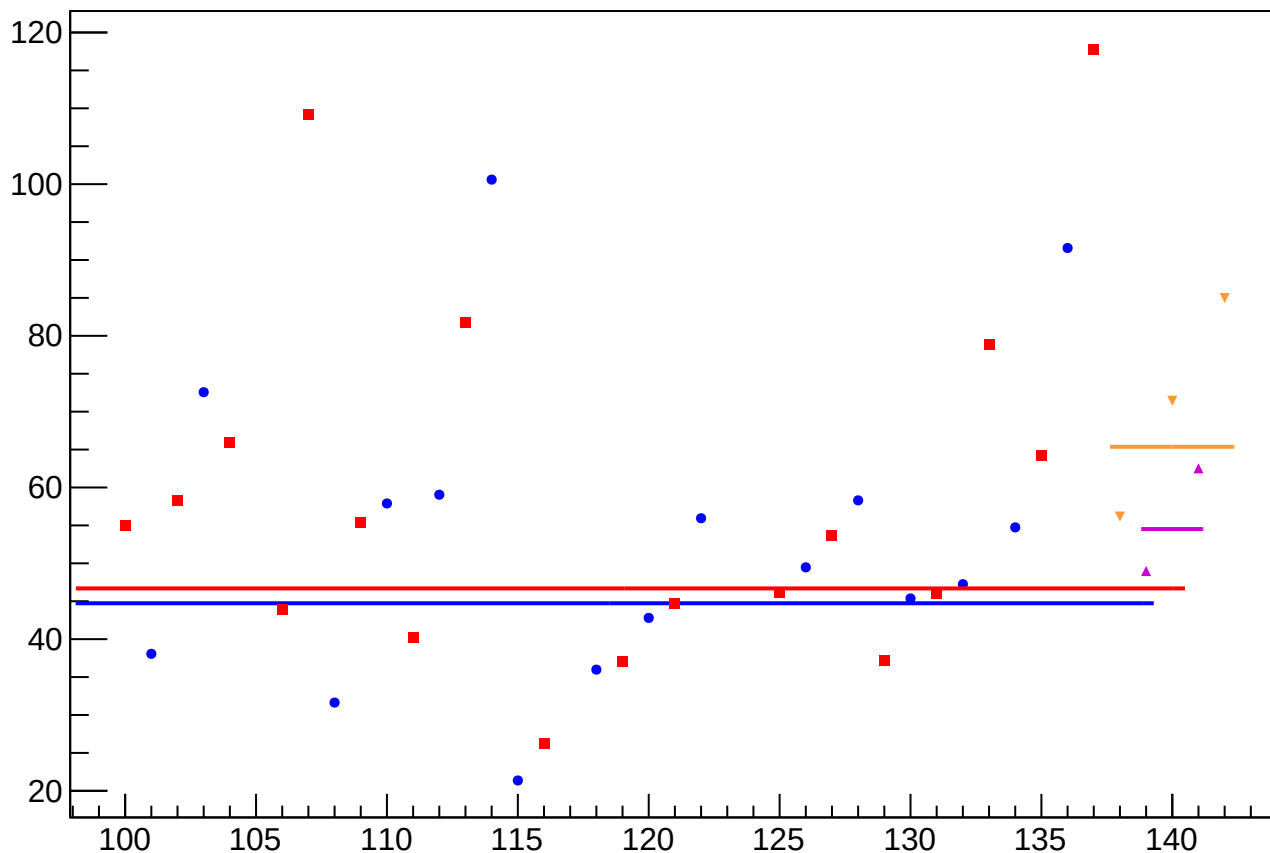
Right: -0.016 ± 0.013 χ^2/NDF : 54.7/33

In: -0.023 ± 0.017 χ^2/NDF : 25.7/17

Out: 0.007 ± 0.018 χ^2/NDF : 42.3/20

All: -0.009 ± 0.012 χ^2/NDF : 69.4/38

asym_usl_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 44.733+/-0.013 χ^2/NDF : 1334541.9/15

Left Out: 65.366+/-0.034 χ^2/NDF : 92900.4/2

Right Out: 46.691+/-0.014 χ^2/NDF : 1195464.6/17

Left In: 54.518+/-0.031 χ^2/NDF : 45944.2/1

Left: 59.437+/-0.023 χ^2/NDF : 194161.9/4

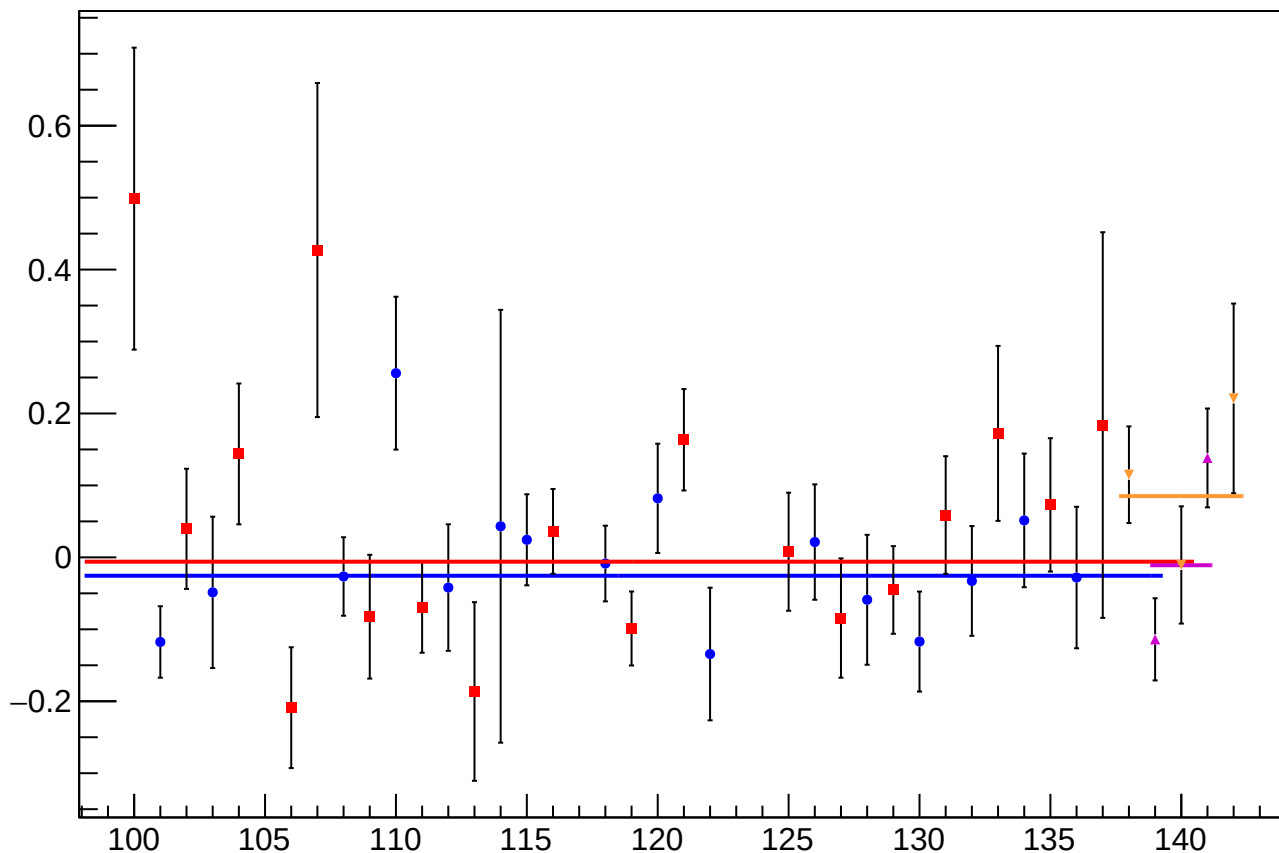
Right: 45.680+/-0.010 χ^2/NDF : 2540529.3/33

In: 46.244+/-0.012 χ^2/NDF : 1464419.0/17

Out: 49.290+/-0.013 χ^2/NDF : 1546563.0/20

All: 47.704+/-0.009 χ^2/NDF : 3040846.3/38

asym_usl_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.026 ± 0.019 χ^2/NDF : 17.6/15

Left Out: 0.085 ± 0.048 χ^2/NDF : 2.6/2

Right Out: -0.006 ± 0.019 χ^2/NDF : 36.5/17

Left In: -0.011 ± 0.044 χ^2/NDF : 8.0/1

Left: 0.033 ± 0.032 χ^2/NDF : 12.8/4

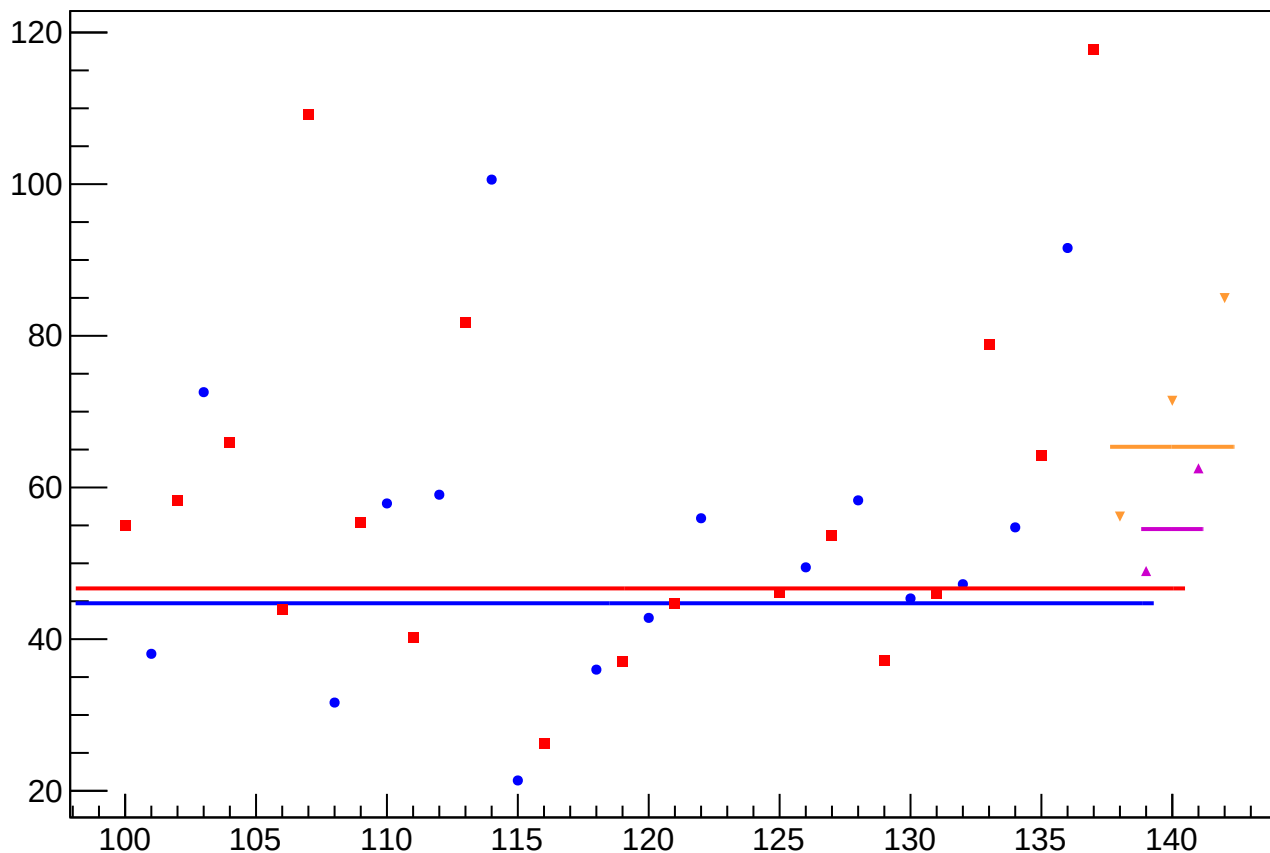
Right: -0.016 ± 0.013 χ^2/NDF : 54.7/33

In: -0.023 ± 0.017 χ^2/NDF : 25.7/17

Out: 0.007 ± 0.018 χ^2/NDF : 42.3/20

All: -0.009 ± 0.012 χ^2/NDF : 69.4/38

asym_usl_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 44.733+/-0.013 χ^2/NDF : 1334541.9/15

Left Out: 65.366+/-0.034 χ^2/NDF : 92900.4/2

Right Out: 46.691+/-0.014 χ^2/NDF : 1195464.6/17

Left In: 54.518+/-0.031 χ^2/NDF : 45944.2/1

Left: 59.437+/-0.023 χ^2/NDF : 194161.9/4

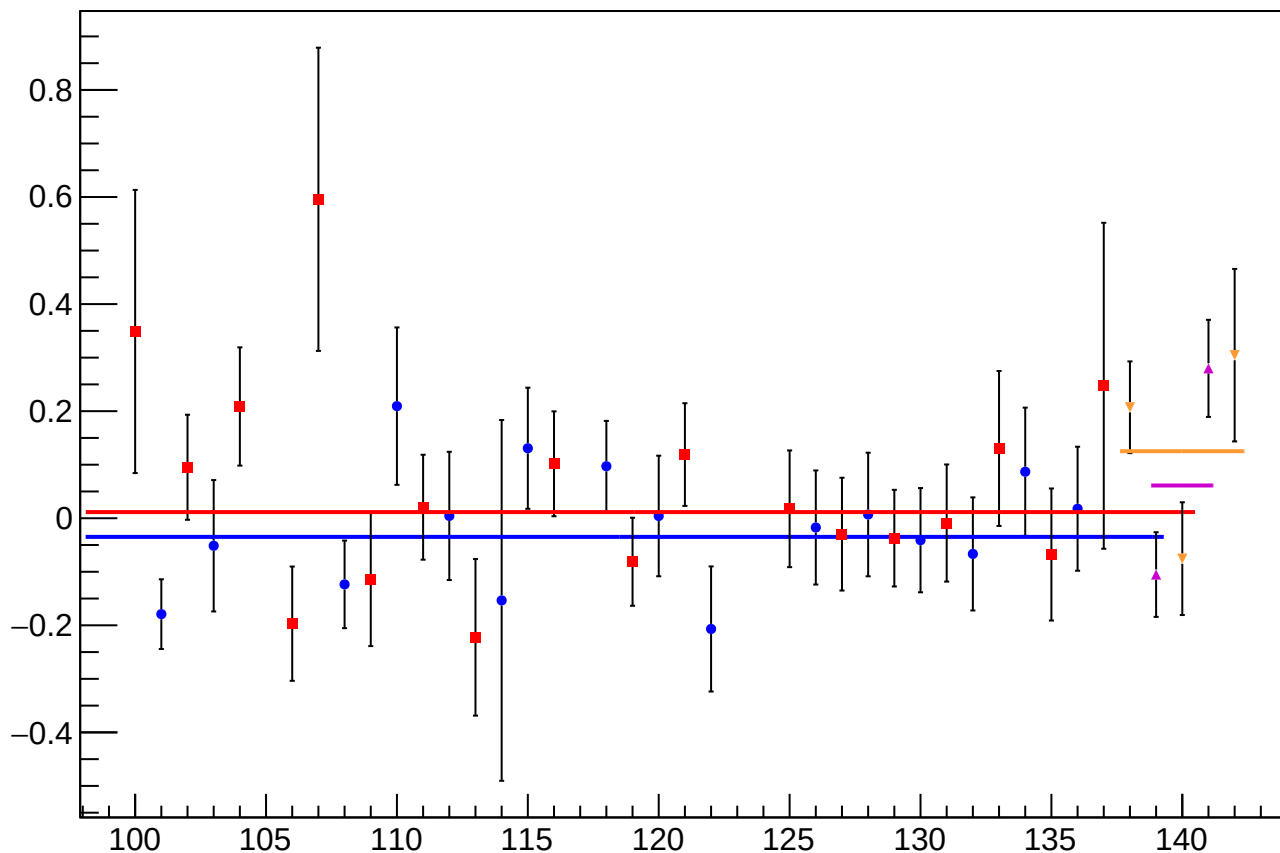
Right: 45.680+/-0.010 χ^2/NDF : 2540529.3/33

In: 46.244+/-0.012 χ^2/NDF : 1464419.0/17

Out: 49.290+/-0.013 χ^2/NDF : 1546563.0/20

All: 47.704+/-0.009 χ^2/NDF : 3040846.3/38

asym_usl_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.035 ± 0.026 $\chi^2/\text{NDF}: 17.4/15$

Left Out: 0.125 ± 0.061 $\chi^2/\text{NDF}: 5.8/2$

Right Out: 0.012 ± 0.027 $\chi^2/\text{NDF}: 22.8/17$

Left In: 0.061 ± 0.060 $\chi^2/\text{NDF}: 10.2/1$

Left: 0.092 ± 0.043 $\chi^2/\text{NDF}: 16.6/4$

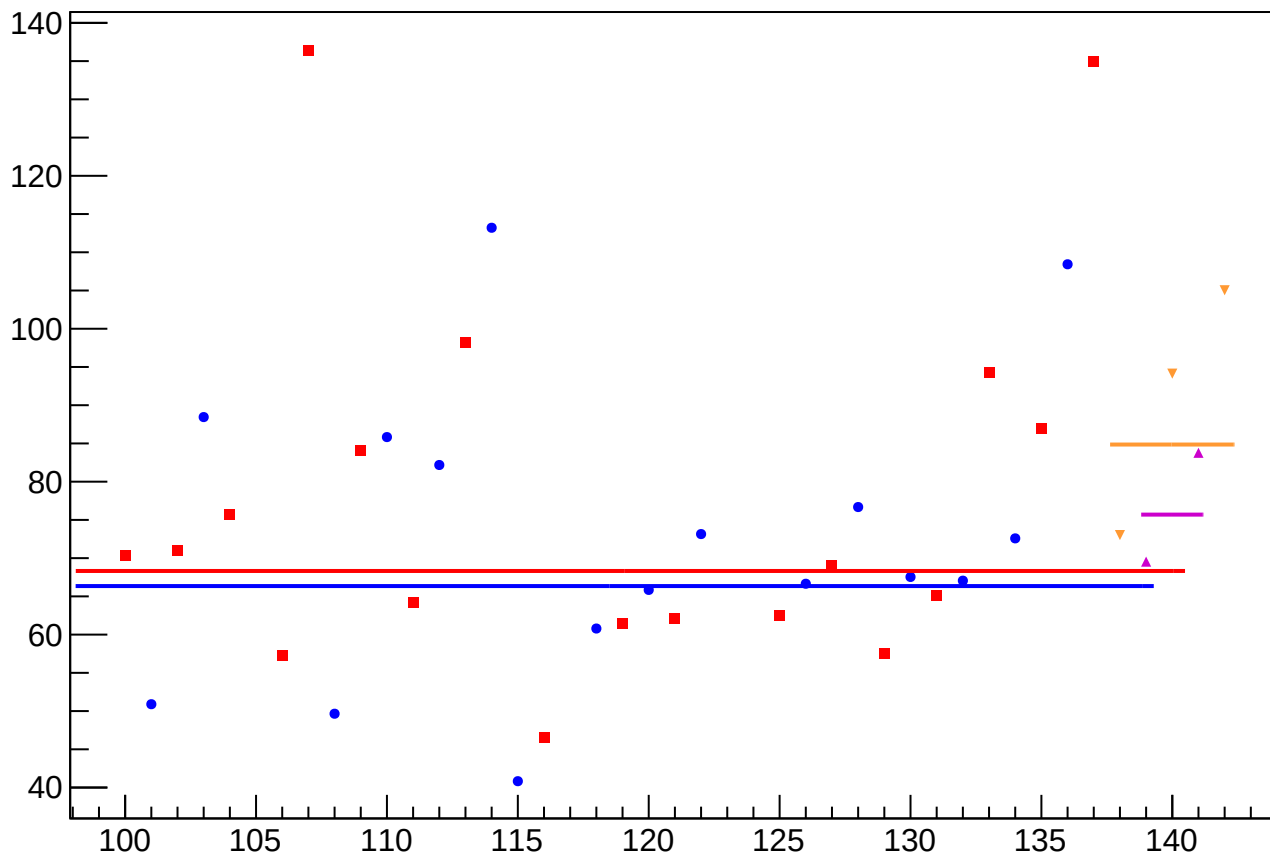
Right: -0.012 ± 0.019 $\chi^2/\text{NDF}: 41.7/33$

In: -0.019 ± 0.024 $\chi^2/\text{NDF}: 29.9/17$

Out: 0.030 ± 0.025 $\chi^2/\text{NDF}: 31.4/20$

All: 0.005 ± 0.017 $\chi^2/\text{NDF}: 63.3/38$

asym_usl_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 66.348 $\pm$ 0.019 χ^2 /NDF: 772653.3/15

Left Out: 84.857 $\pm$ 0.043 χ^2 /NDF: 85078.4/2

Right Out: 68.322 $\pm$ 0.019 χ^2 /NDF: 629670.0/17

Left In: 75.693 $\pm$ 0.042 χ^2 /NDF: 27997.6/1

Left: 80.136 $\pm$ 0.030 χ^2 /NDF: 136005.1/4

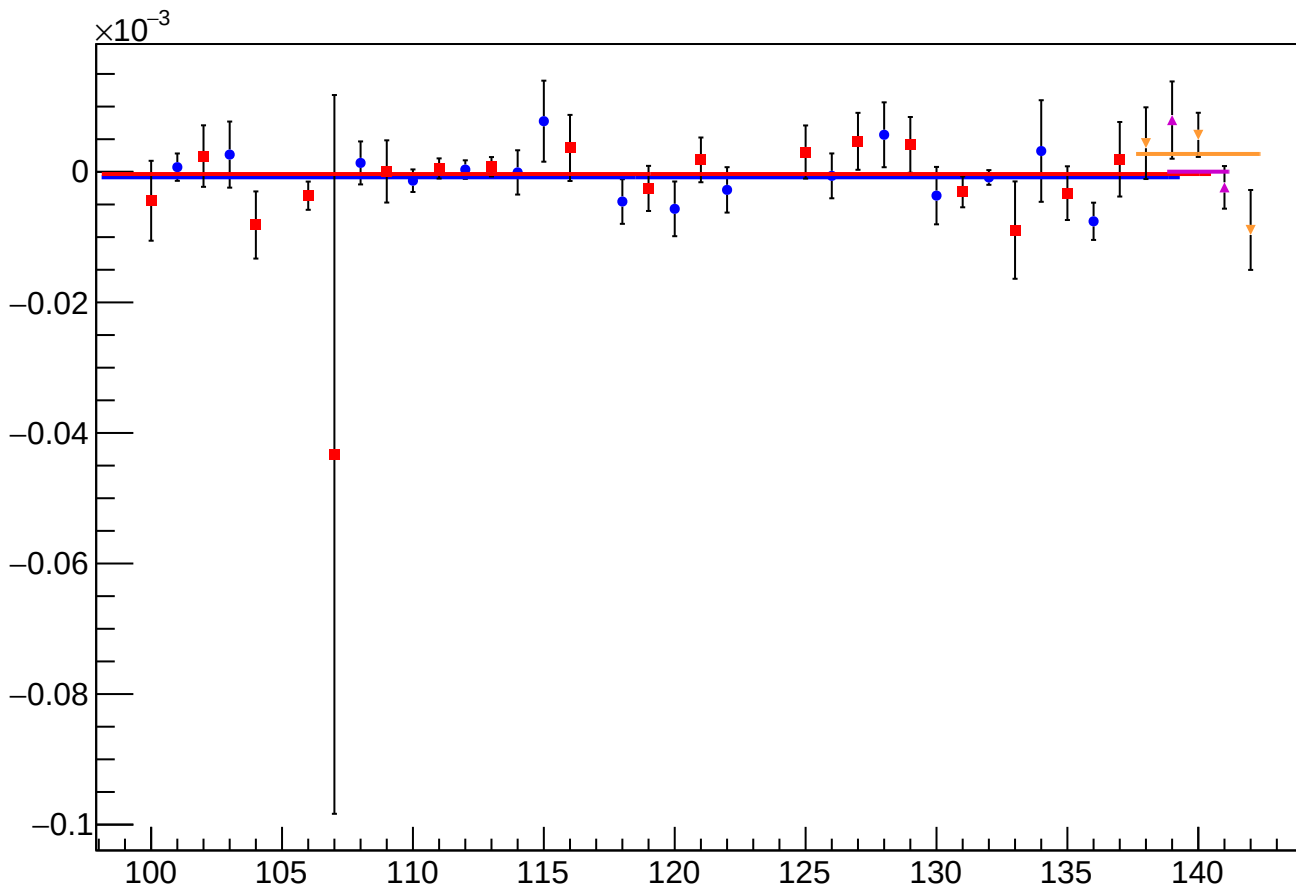
Right: 67.312 $\pm$ 0.013 χ^2 /NDF: 1407833.1/33

In: 67.869 $\pm$ 0.017 χ^2 /NDF: 841823.6/17

Out: 70.983 $\pm$ 0.017 χ^2 /NDF: 836336.9/20

All: 69.387 $\pm$ 0.012 χ^2 /NDF: 1694522.0/38

asym_usl_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 15.0/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 4.5/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 14.8/17

Left In: 0.000 ± 0.000 χ^2/NDF : 2.3/1

Left: 0.000 ± 0.000 χ^2/NDF : 7.3/4

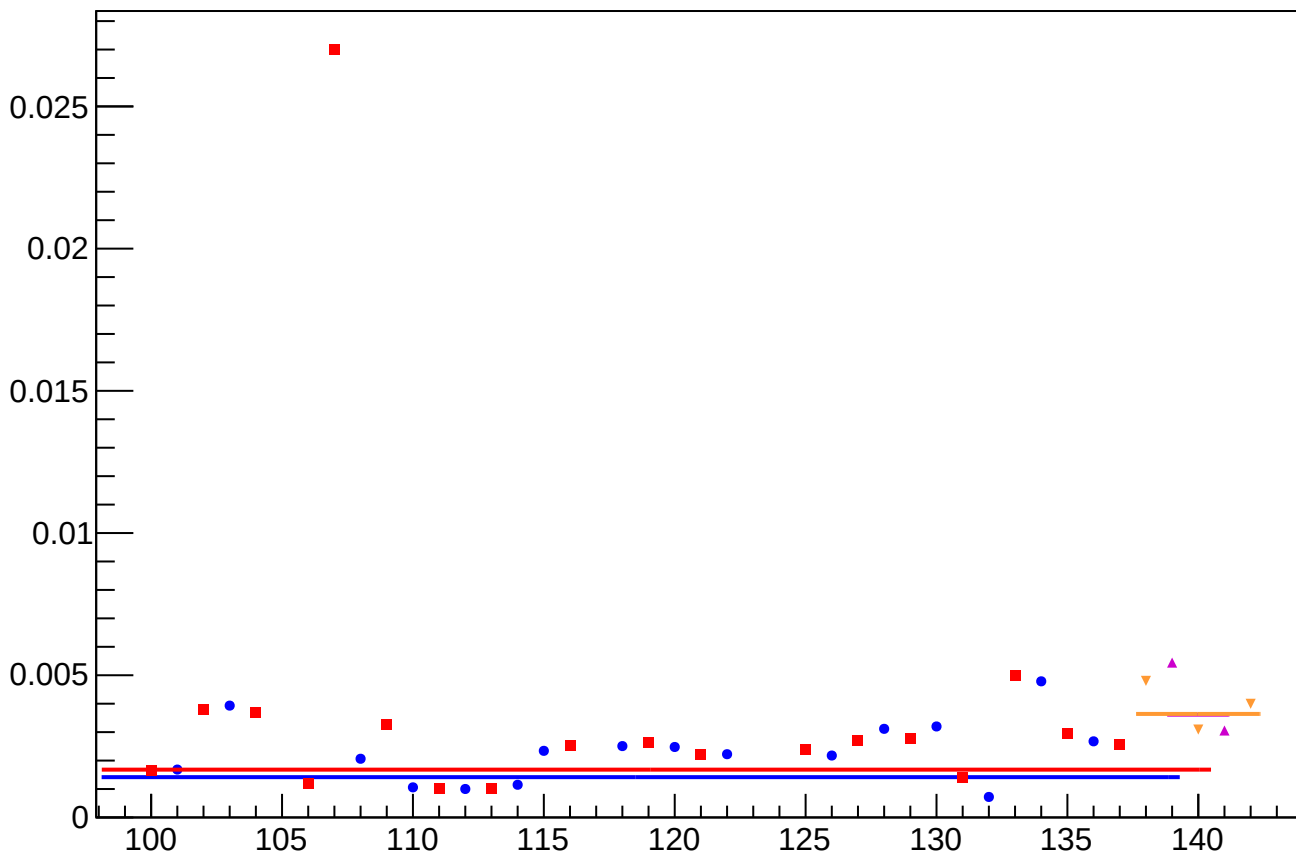
Right: -0.000 ± 0.000 χ^2/NDF : 30.1/33

In: -0.000 ± 0.000 χ^2/NDF : 17.4/17

Out: -0.000 ± 0.000 χ^2/NDF : 20.6/20

All: -0.000 ± 0.000 χ^2/NDF : 38.5/38

asym_usl_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 3547259.2/15

Left Out: 0.004+/-0.000 χ^2/NDF :149129.5/2

Right Out: 0.002+/-0.000 χ^2/NDF : 3427218.5/17

Left In: 0.004+/-0.000 χ^2/NDF :249436.1/1

Left: 0.004+/-0.000 χ^2/NDF : 398657.5/4

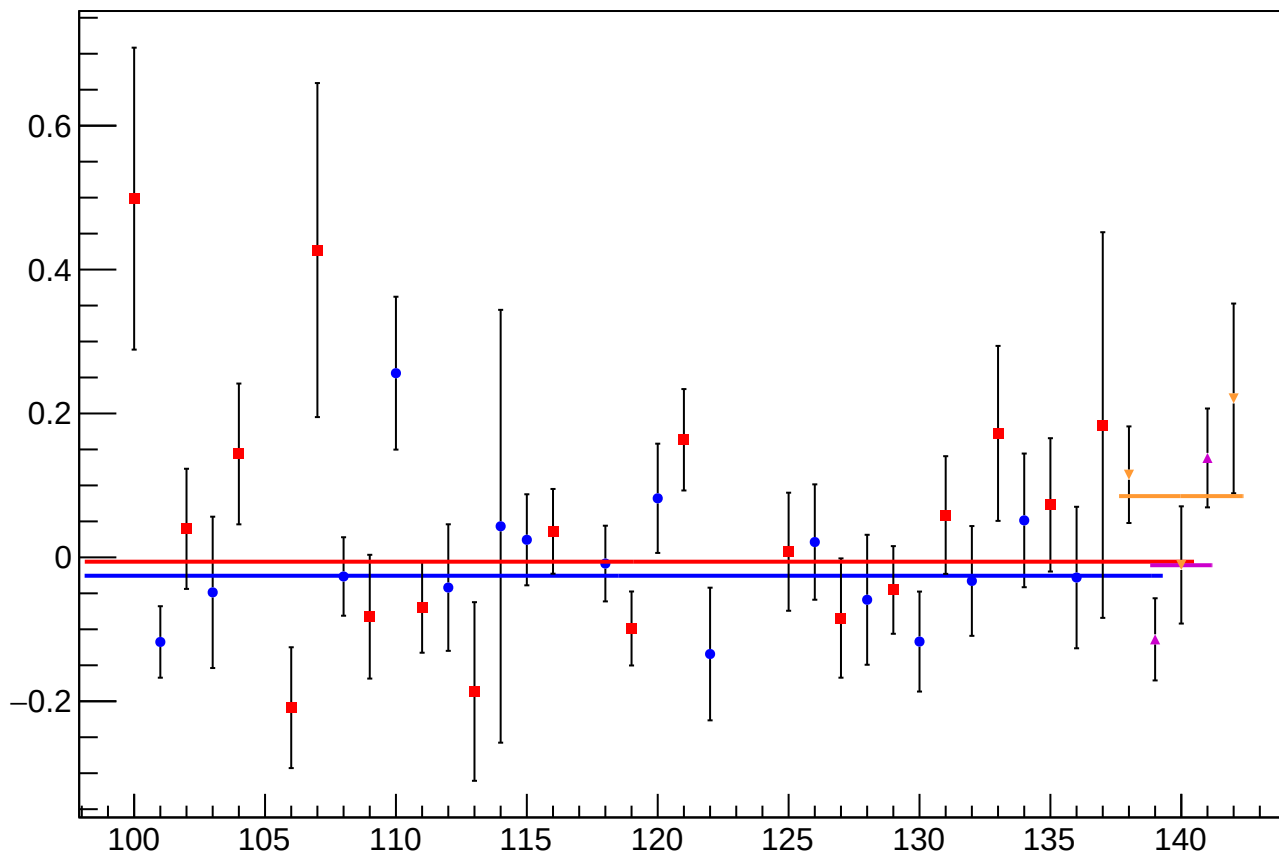
Right: 0.002+/-0.000 χ^2/NDF : 7128830.6/33

In: 0.002+/-0.000 χ^2/NDF :4925485.2/17

Out: 0.002+/-0.000 χ^2/NDF :4625509.8/20

All: 0.002+/-0.000 χ^2/NDF : 9773013.8/38

asym_usl_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.026 ± 0.019 χ^2/NDF : 17.6/15

Left Out: 0.085 ± 0.048 χ^2/NDF : 2.6/2

Right Out: -0.006 ± 0.019 χ^2/NDF : 36.5/17

Left In: -0.011 ± 0.044 χ^2/NDF : 8.0/1

Left: 0.033 ± 0.032 χ^2/NDF : 12.8/4

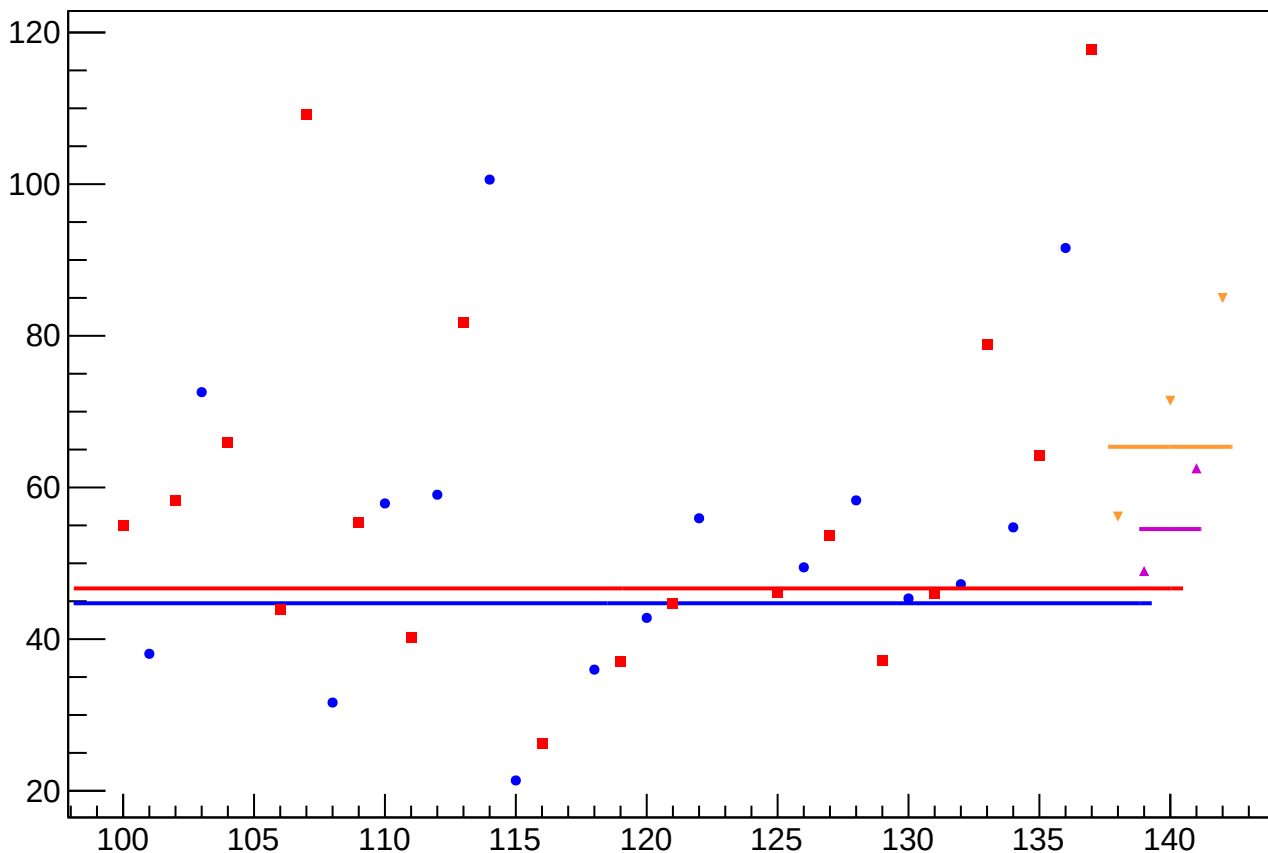
Right: -0.016 ± 0.013 χ^2/NDF : 54.7/33

In: -0.023 ± 0.017 χ^2/NDF : 25.7/17

Out: 0.007 ± 0.018 χ^2/NDF : 42.3/20

All: -0.009 ± 0.012 χ^2/NDF : 69.4/38

asym_usl_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 44.732+/-0.013 χ^2/NDF : 1334604.0/15

Left Out: 65.365+/-0.034 χ^2/NDF : 92907.4/2

Right Out: 46.690+/-0.014 χ^2/NDF : 1195504.1/17

Left In: 54.518+/-0.031 χ^2/NDF : 45938.6/1

Left: 59.436+/-0.023 χ^2/NDF : 194156.0/4

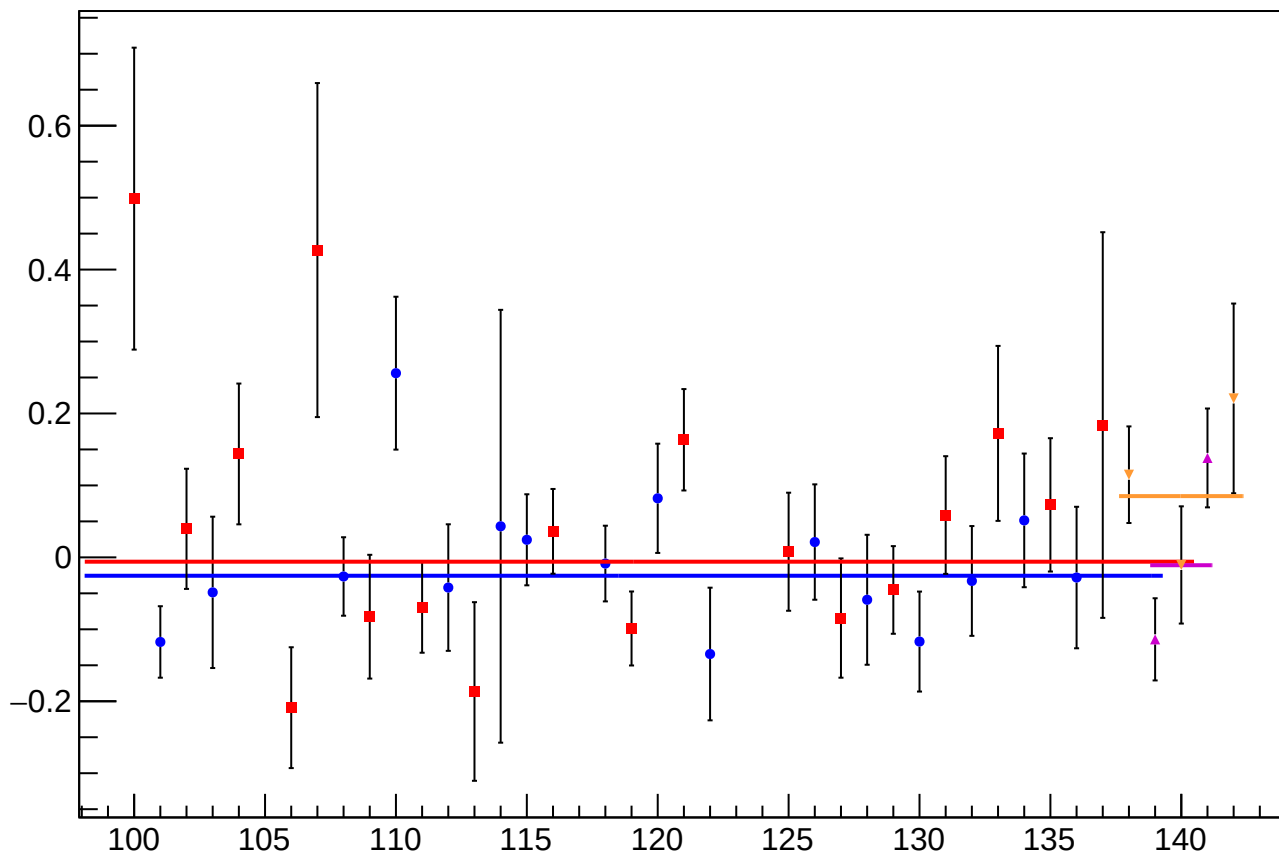
Right: 45.679+/-0.010 χ^2/NDF : 2540631.2/33

In: 46.243+/-0.012 χ^2/NDF : 1464495.1/17

Out: 49.289+/-0.013 χ^2/NDF : 1546625.4/20

All: 47.703+/-0.009 χ^2/NDF : 3040983.1/38

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.026 ± 0.019 χ^2/NDF : 17.6/15

Left Out: 0.085 ± 0.048 χ^2/NDF : 2.6/2

Right Out: -0.006 ± 0.019 χ^2/NDF : 36.5/17

Left In: -0.011 ± 0.044 χ^2/NDF : 8.0/1

Left: 0.033 ± 0.032 χ^2/NDF : 12.8/4

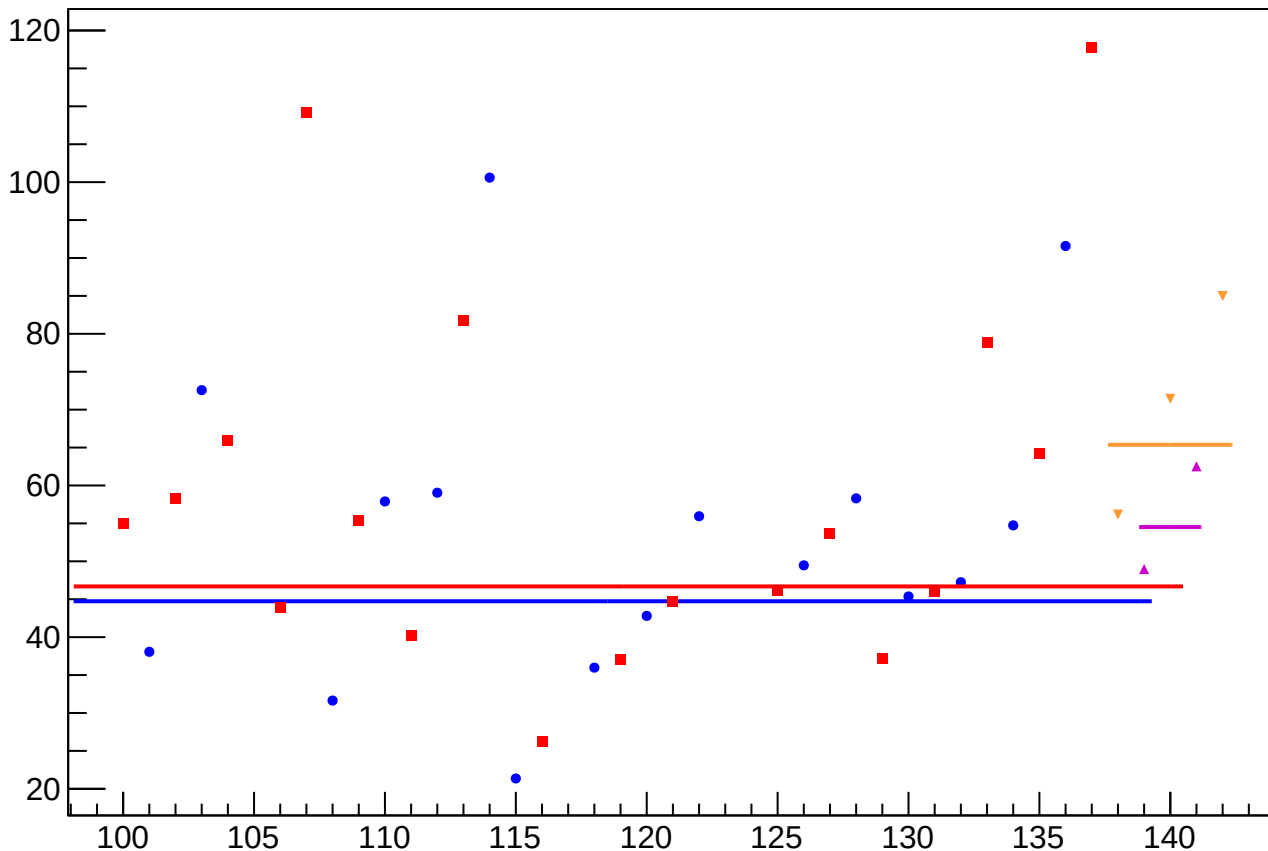
Right: -0.016 ± 0.013 χ^2/NDF : 54.7/33

In: -0.023 ± 0.017 χ^2/NDF : 25.7/17

Out: 0.007 ± 0.018 χ^2/NDF : 42.3/20

All: -0.009 ± 0.012 χ^2/NDF : 69.4/38

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 44.732+/-0.013 χ^2/NDF : 1334604.0/15

Left Out: 65.365+/-0.034 χ^2/NDF : 92907.4/2

Right Out: 46.690+/-0.014 χ^2/NDF : 1195504.1/17

Left In: 54.518+/-0.031 χ^2/NDF : 45938.6/1

Left: 59.436+/-0.023 χ^2/NDF : 194156.0/4

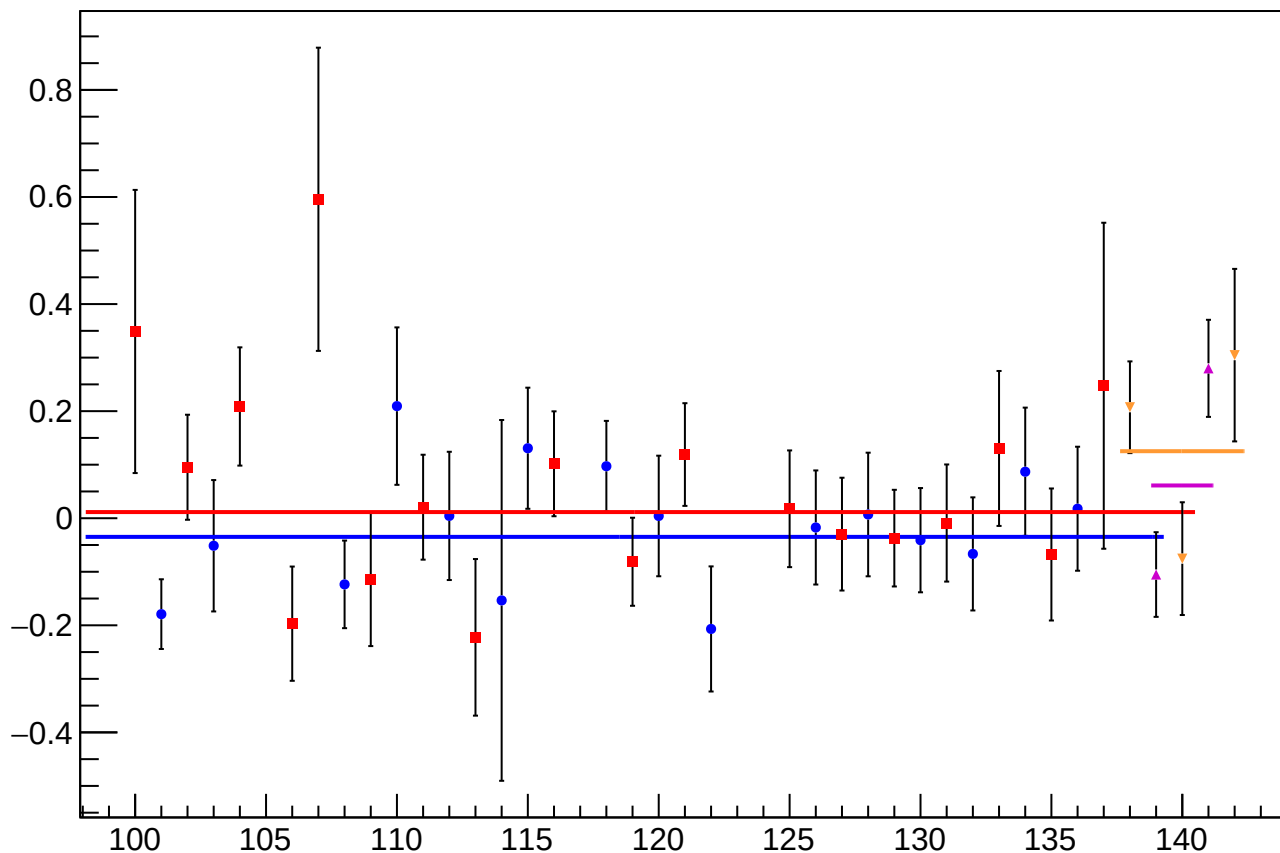
Right: 45.679+/-0.010 χ^2/NDF : 2540631.2/33

In: 46.243+/-0.012 χ^2/NDF : 1464495.1/17

Out: 49.289+/-0.013 χ^2/NDF : 1546625.4/20

All: 47.703+/-0.009 χ^2/NDF : 3040983.1/38

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.035 ± 0.026 $\chi^2/\text{NDF}: 17.4/15$

Left Out: 0.125 ± 0.061 $\chi^2/\text{NDF}: 5.8/2$

Right Out: 0.012 ± 0.027 $\chi^2/\text{NDF}: 22.8/17$

Left In: 0.061 ± 0.060 $\chi^2/\text{NDF}: 10.2/1$

Left: 0.092 ± 0.043 $\chi^2/\text{NDF}: 16.6/4$

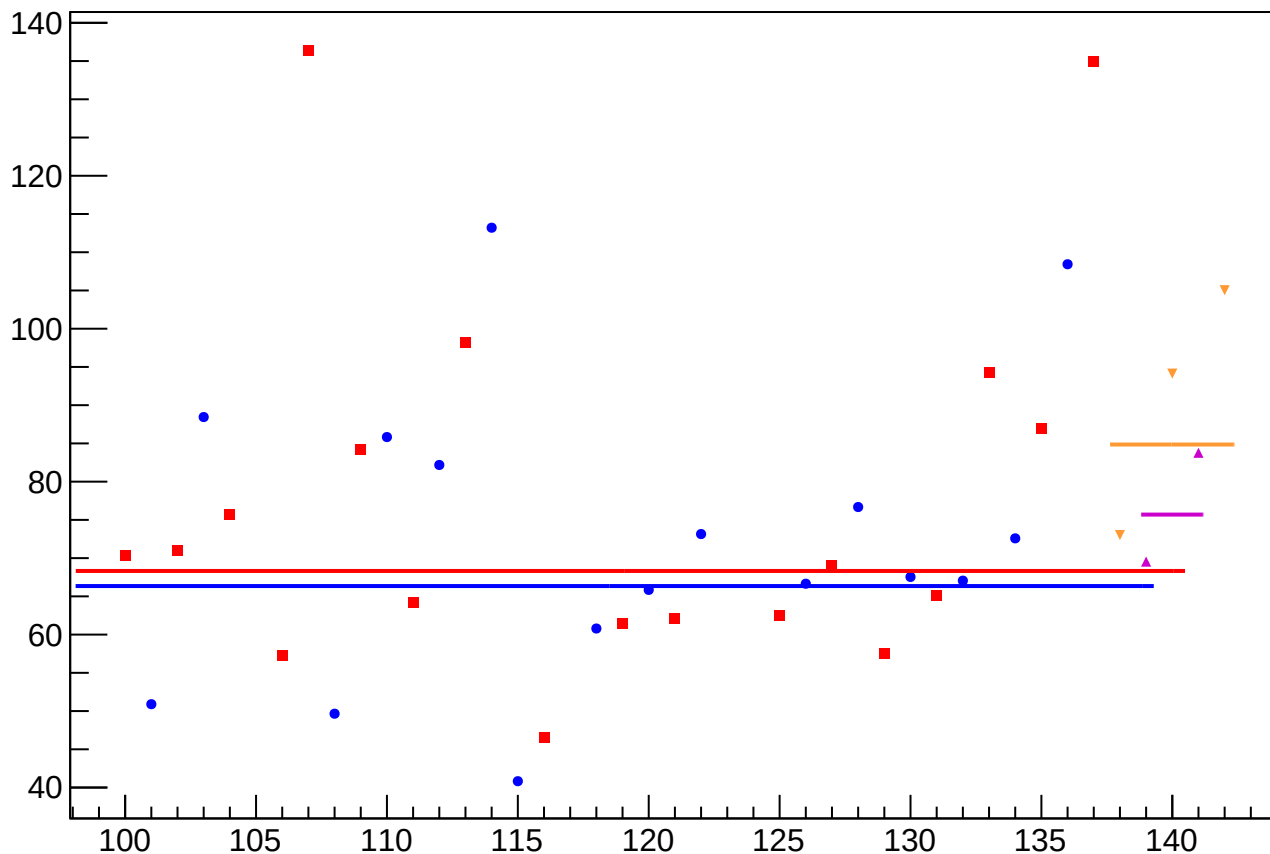
Right: -0.012 ± 0.019 $\chi^2/\text{NDF}: 41.7/33$

In: -0.019 ± 0.024 $\chi^2/\text{NDF}: 29.9/17$

Out: 0.030 ± 0.025 $\chi^2/\text{NDF}: 31.4/20$

All: 0.005 ± 0.017 $\chi^2/\text{NDF}: 63.3/38$

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 66.348 $\pm$ 0.019 χ^2/NDF : 772660.4/15

Left Out: 84.856 $\pm$ 0.043 χ^2/NDF :85082.8/2

Right Out: 68.321 $\pm$ 0.019 χ^2/NDF : 629665.7/17

Left In: 75.693 $\pm$ 0.042 χ^2/NDF :27994.6/1

Left: 80.136 $\pm$ 0.030 χ^2/NDF : 136003.6/4

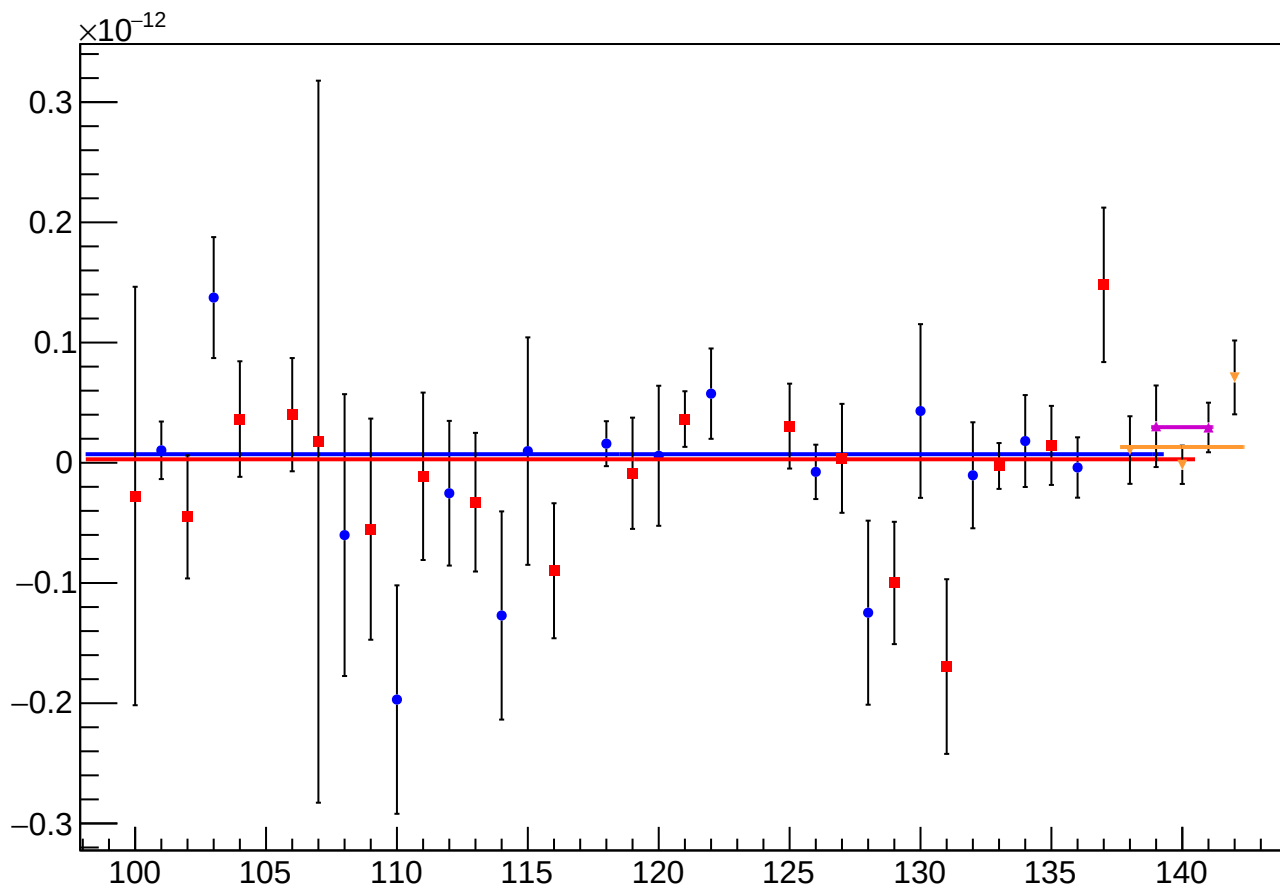
Right: 67.311 $\pm$ 0.013 χ^2/NDF : 1407834.9/33

In: 67.869 $\pm$ 0.017 χ^2/NDF :841834.3/17

Out: 70.982 $\pm$ 0.017 χ^2/NDF :836344.0/20

All: 69.387 $\pm$ 0.012 χ^2/NDF : 1694537.1/38

asym_usl_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 4.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 23.4/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 5.0/4

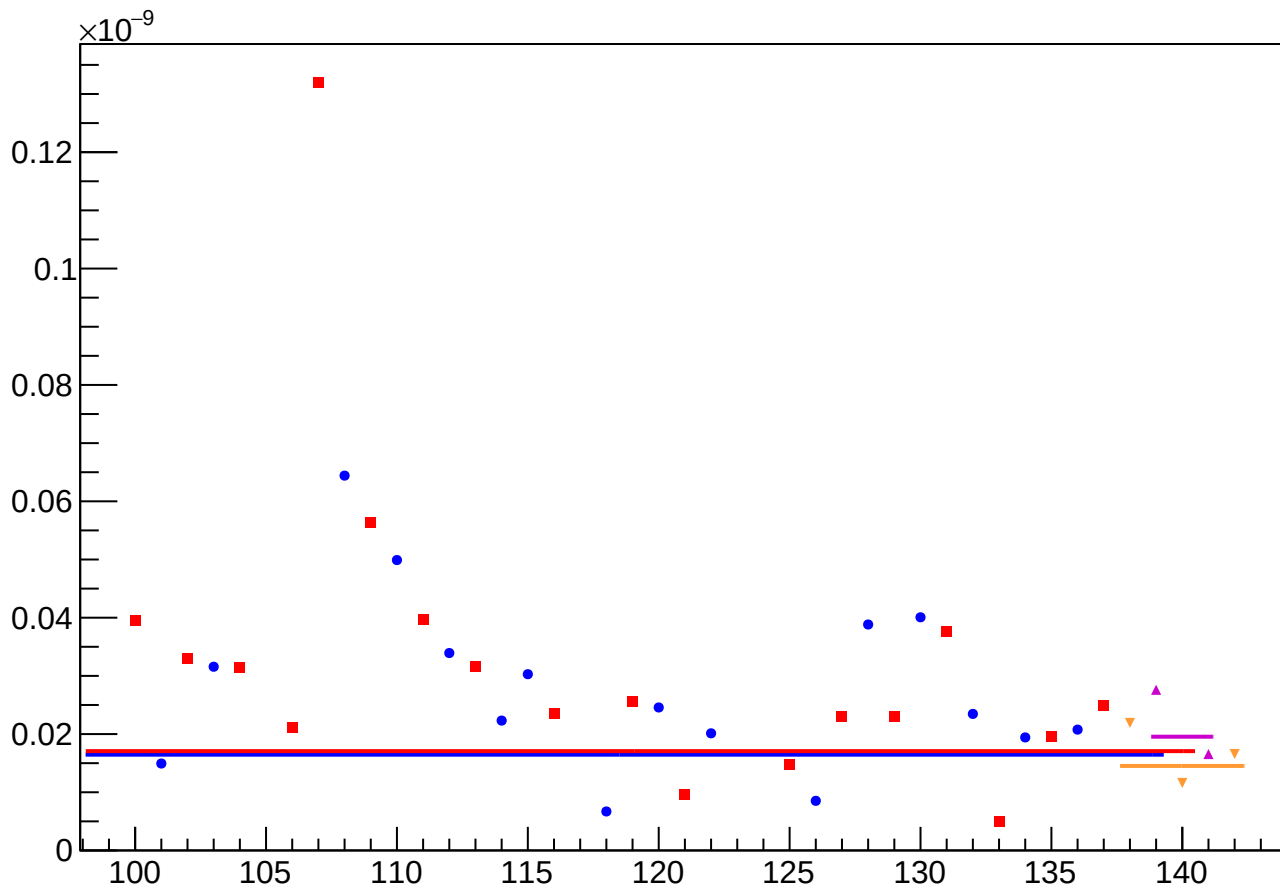
Right: 0.000+/-0.000 χ^2/NDF : 43.9/33

In: 0.000+/-0.000 χ^2/NDF : 21.7/17

Out: 0.000+/-0.000 χ^2/NDF : 28.2/20

All: 0.000+/-0.000 χ^2/NDF : 50.1/38

asym_usl_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2345888.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :214500.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2791354.7/17

Left In: 0.000+/-0.000 χ^2/NDF :154745.7/1

Left: 0.000+/-0.000 χ^2/NDF : 476534.4/4

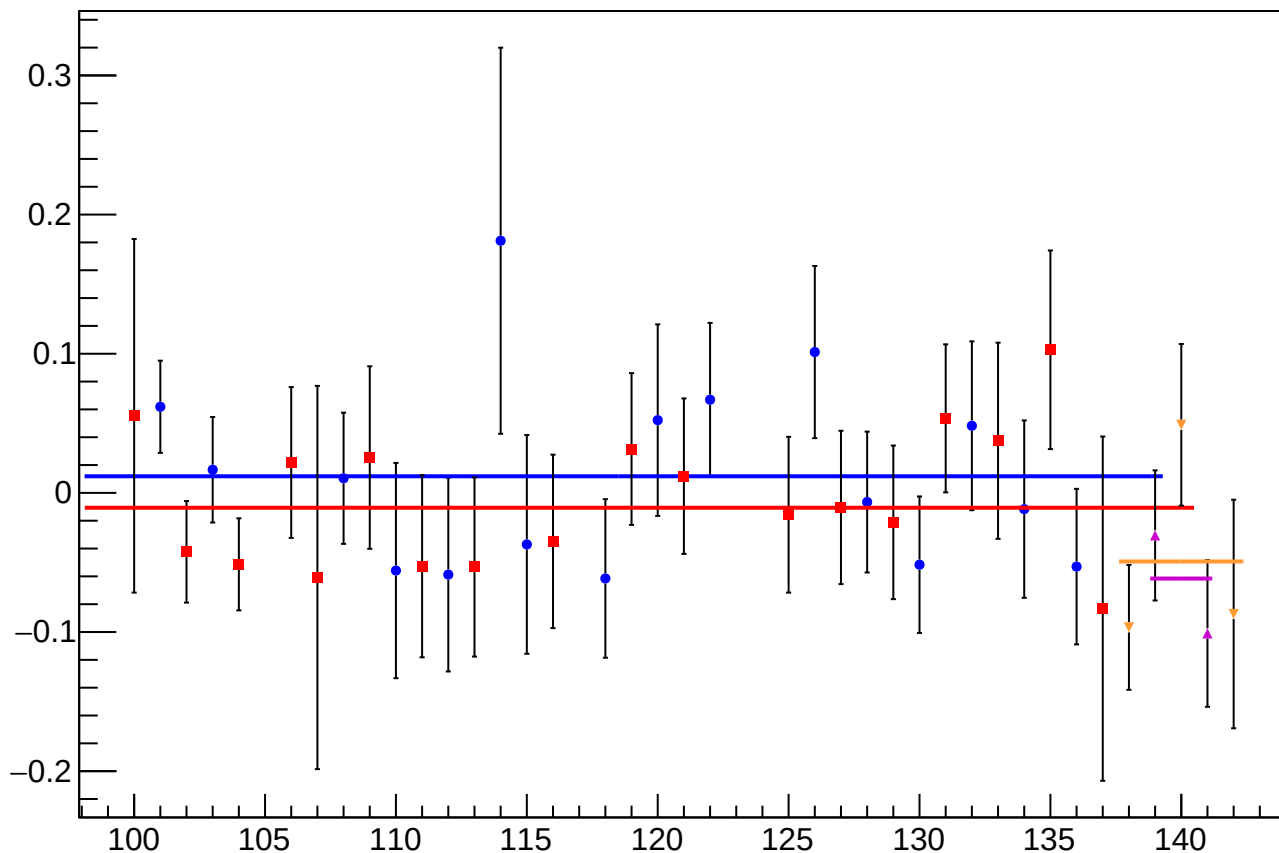
Right: 0.000+/-0.000 χ^2/NDF : 5141308.5/33

In: 0.000+/-0.000 χ^2/NDF :2548836.3/17

Out: 0.000+/-0.000 χ^2/NDF :3056353.6/20

All: 0.000+/-0.000 χ^2/NDF : 5621352.3/38

asym_usl_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.014 χ^2 /NDF: 14.7/15

Left Out: -0.049 $\pm$ 0.033 χ^2 /NDF: 4.2/2

Right Out: -0.011 $\pm$ 0.013 χ^2 /NDF: 9.9/17

Left In: -0.062 $\pm$ 0.035 χ^2 /NDF: 1.0/1

Left: -0.055 $\pm$ 0.024 χ^2 /NDF: 5.2/4

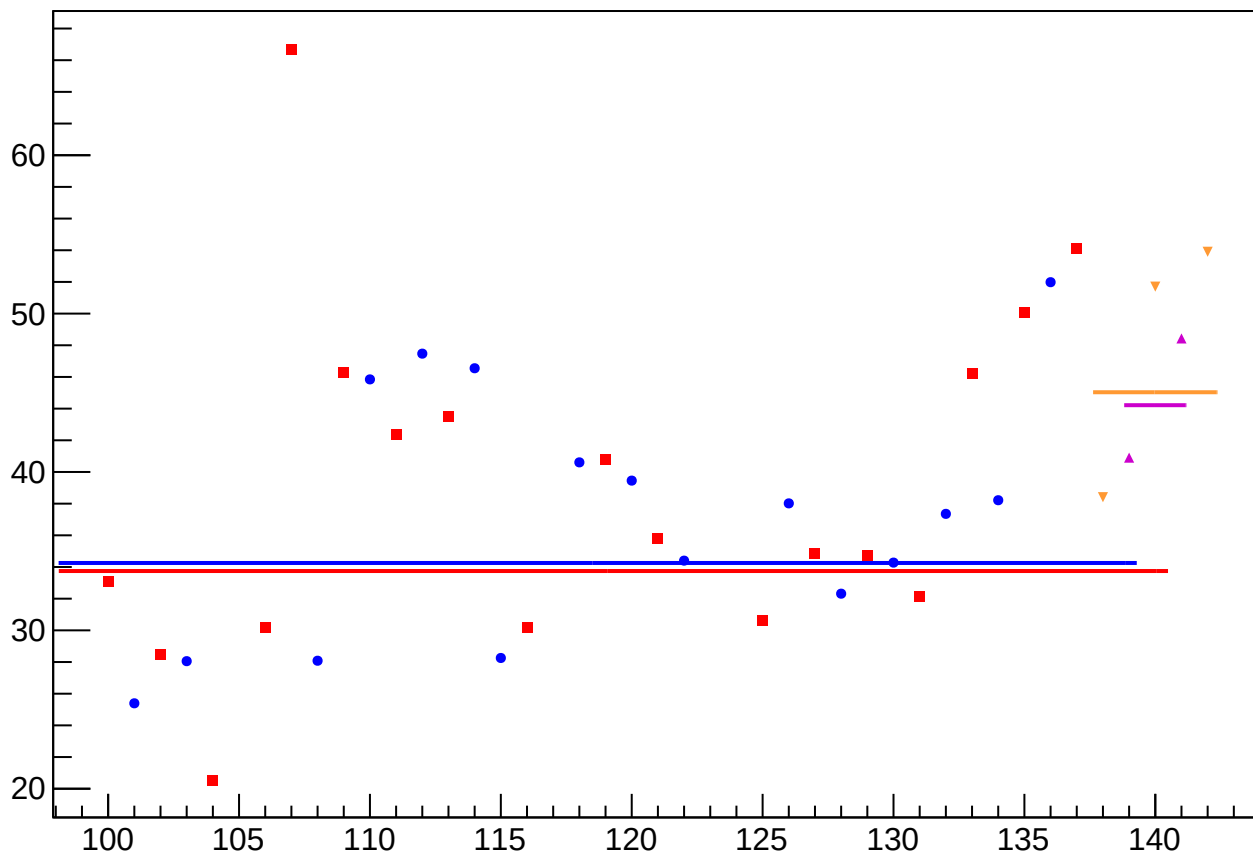
Right: 0.000 $\pm$ 0.010 χ^2 /NDF: 26.0/33

In: 0.002 $\pm$ 0.013 χ^2 /NDF: 19.5/17

Out: -0.016 $\pm$ 0.012 χ^2 /NDF: 15.3/20

All: -0.007 $\pm$ 0.009 χ^2 /NDF: 35.9/38

asym_usl_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.254+/-0.010 χ^2/NDF : 636017.1/15

Left Out: 45.034+/-0.023 χ^2/NDF : 93292.7/2

Right Out: 33.746+/-0.010 χ^2/NDF : 911938.6/17

Left In: 44.217+/-0.025 χ^2/NDF : 22805.3/1

Left: 44.654+/-0.017 χ^2/NDF : 116682.6/4

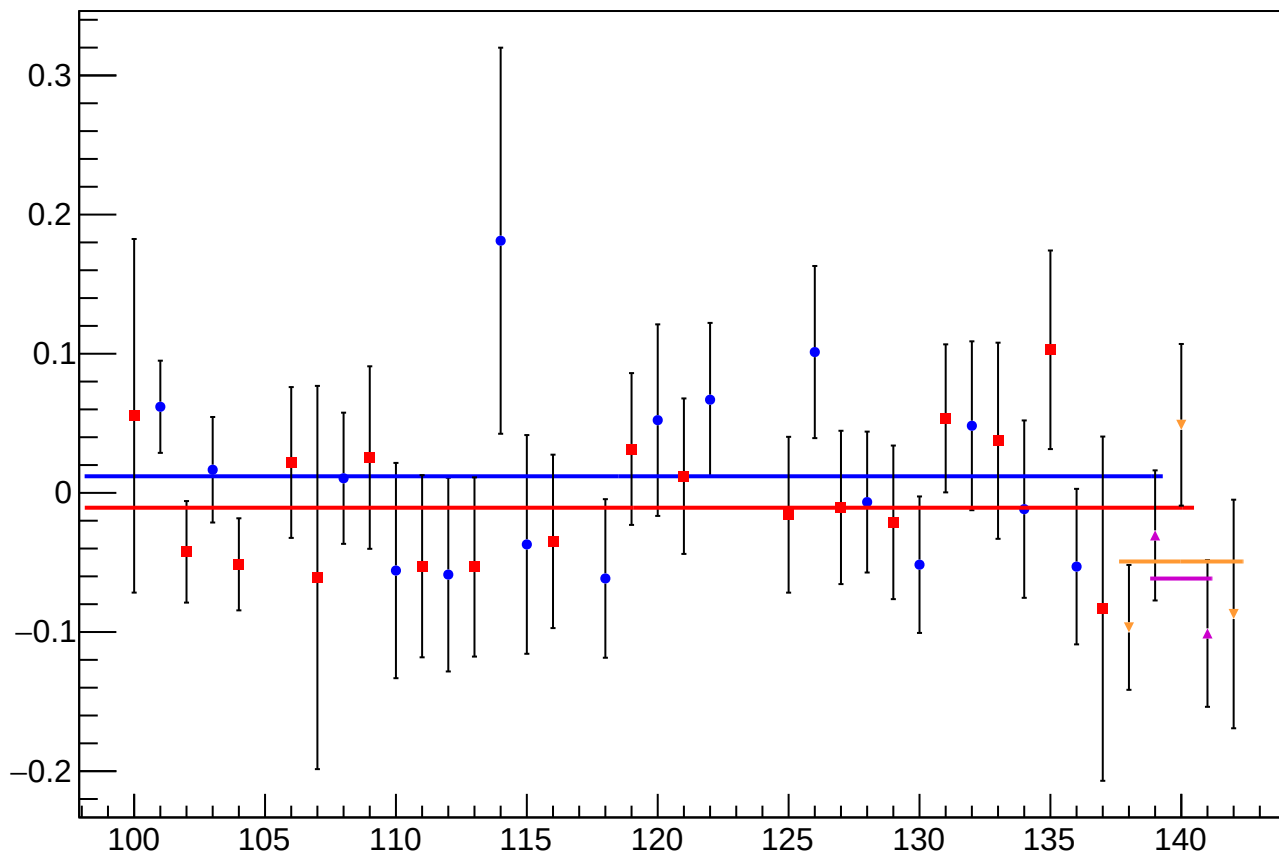
Right: 33.997+/-0.007 χ^2/NDF : 1549368.8/33

In: 35.564+/-0.009 χ^2/NDF : 799664.2/17

Out: 35.387+/-0.009 χ^2/NDF : 1210228.7/20

All: 35.474+/-0.006 χ^2/NDF : 2010093.0/38

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 ± 0.014 $\chi^2/\text{NDF}: 14.7/15$

Left Out: -0.049 ± 0.033 $\chi^2/\text{NDF}: 4.2/2$

Right Out: -0.011 ± 0.013 $\chi^2/\text{NDF}: 9.9/17$

Left In: -0.062 ± 0.035 $\chi^2/\text{NDF}: 1.0/1$

Left: -0.055 ± 0.024 $\chi^2/\text{NDF}: 5.2/4$

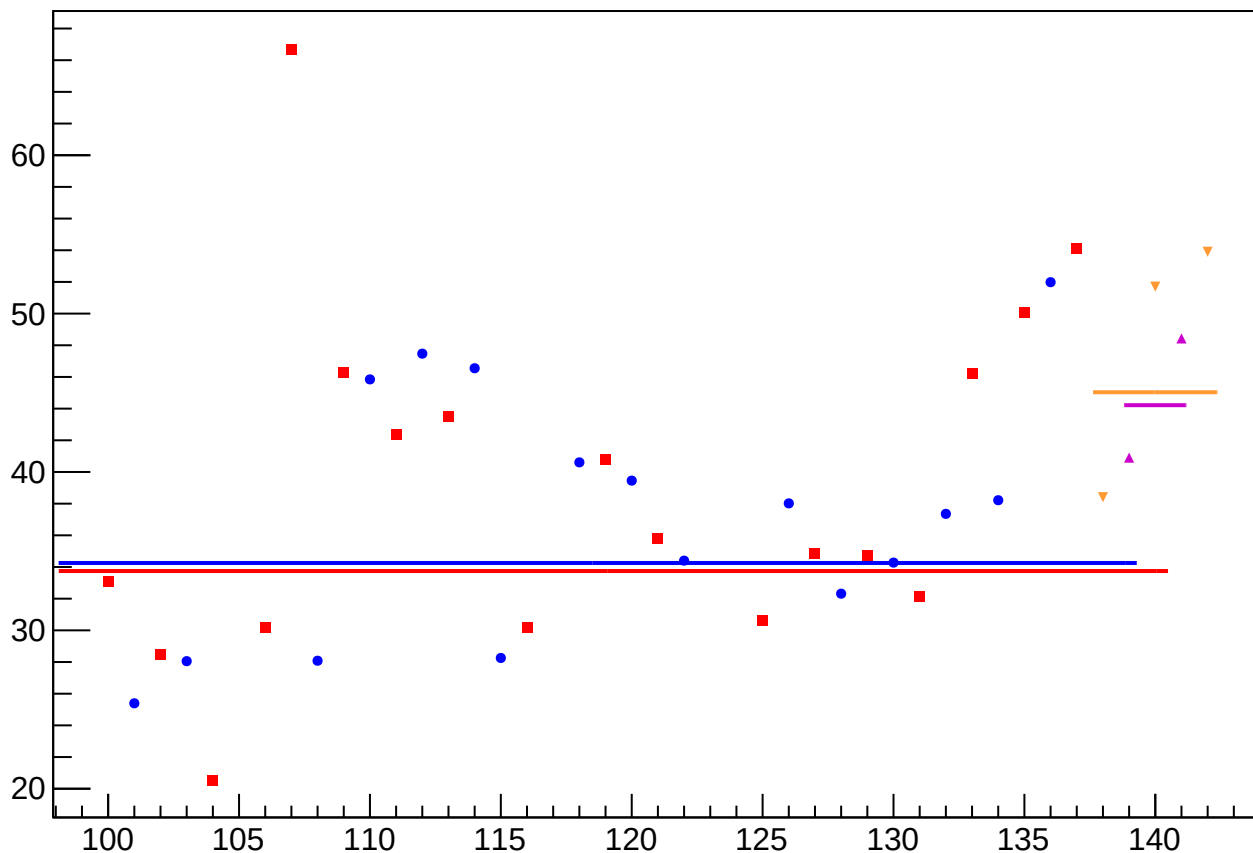
Right: 0.000 ± 0.010 $\chi^2/\text{NDF}: 26.0/33$

In: 0.002 ± 0.013 $\chi^2/\text{NDF}: 19.5/17$

Out: -0.016 ± 0.012 $\chi^2/\text{NDF}: 15.3/20$

All: -0.007 ± 0.009 $\chi^2/\text{NDF}: 35.9/38$

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.254+/-0.010 χ^2/NDF : 636017.1/15

Left Out: 45.034+/-0.023 χ^2/NDF : 93292.7/2

Right Out: 33.746+/-0.010 χ^2/NDF : 911938.6/17

Left In: 44.217+/-0.025 χ^2/NDF : 22805.3/1

Left: 44.654+/-0.017 χ^2/NDF : 116682.6/4

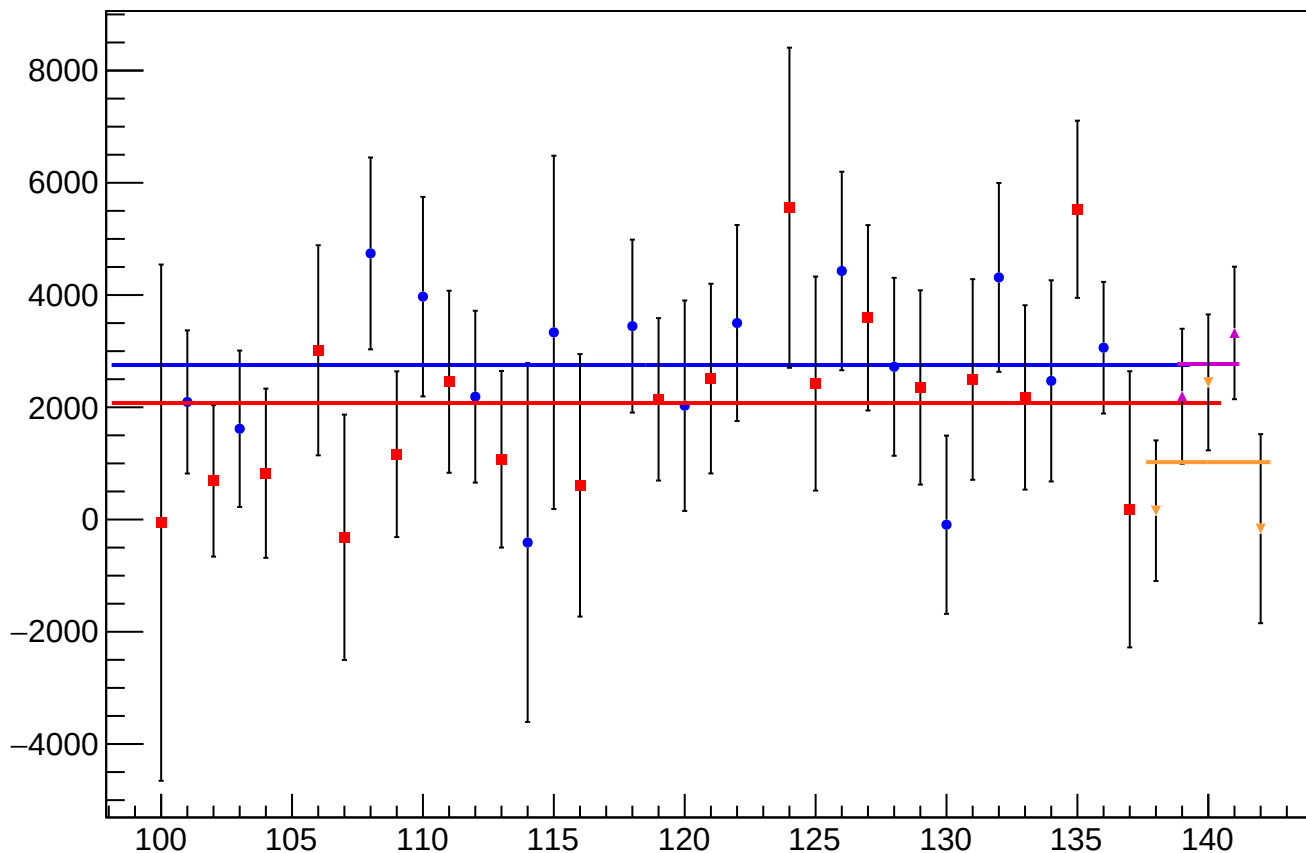
Right: 33.997+/-0.007 χ^2/NDF : 1549368.8/33

In: 35.564+/-0.009 χ^2/NDF : 799664.2/17

Out: 35.387+/-0.009 χ^2/NDF : 1210228.7/20

All: 35.474+/-0.006 χ^2/NDF : 2010093.0/38

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2753.123 $\pm$ 409.837 χ^2 /NDF: 9.5/15

Left Out: 1022.713 $\pm$ 773.395 χ^2 /NDF: 2.3/2

Right Out: 2076.471 $\pm$ 403.796 χ^2 /NDF: 12.5/18

Left In: 2771.020 $\pm$ 842.300 χ^2 /NDF: 0.4/1

Left: 1822.442 $\pm$ 569.678 χ^2 /NDF: 5.1/4

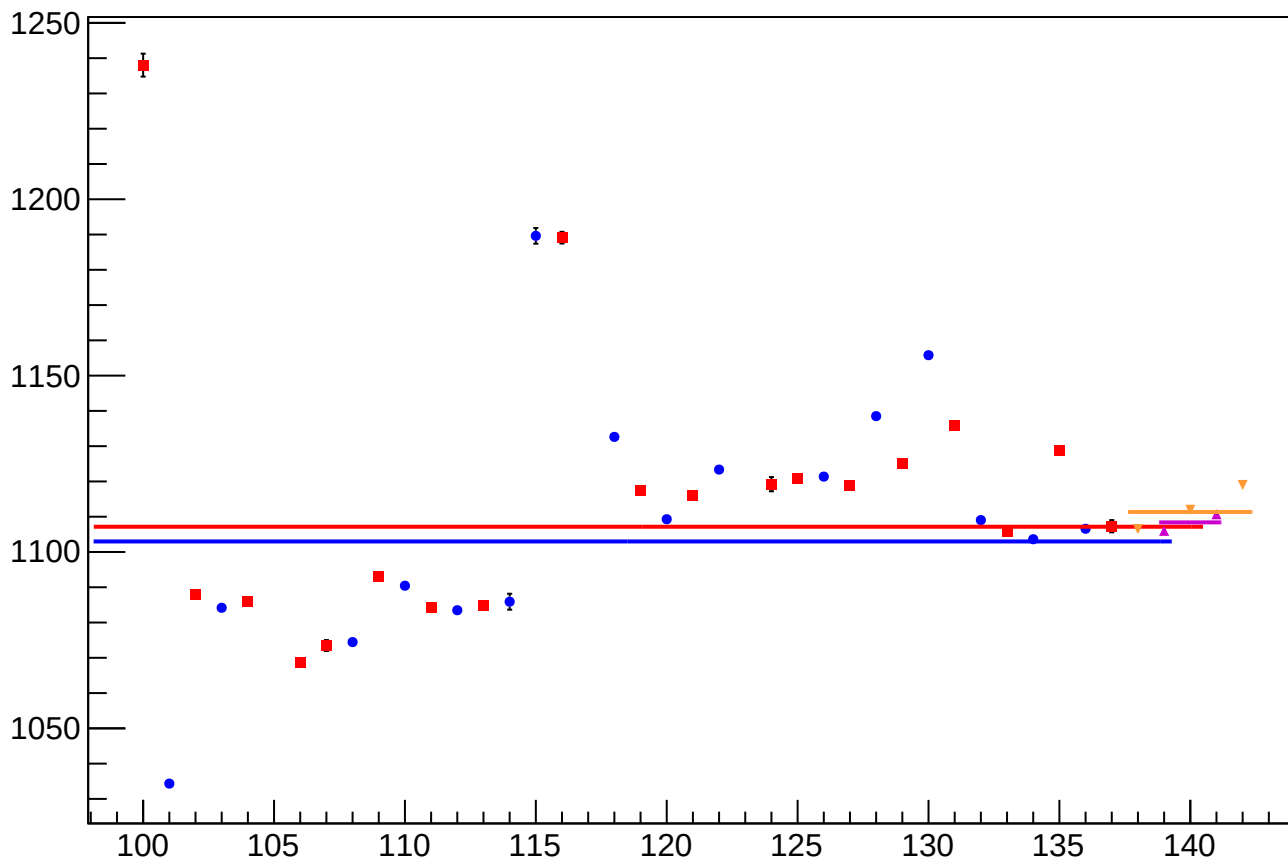
Right: 2409.773 $\pm$ 287.639 χ^2 /NDF: 23.4/34

In: 2756.549 $\pm$ 368.528 χ^2 /NDF: 10.0/17

Out: 1850.751 $\pm$ 357.945 χ^2 /NDF: 16.3/21

All: 2290.457 $\pm$ 256.765 χ^2 /NDF: 29.4/39

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1102.988 $\pm$ 0.290 χ^2 /NDF: 13223.8/15

Left Out: 1111.348 $\pm$ 0.547 χ^2 /NDF: 72.0/2

Right Out: 1107.159 $\pm$ 0.286 χ^2 /NDF: 8683.4/18

Left In: 1108.394 $\pm$ 0.596 χ^2 /NDF: 15.5/1

Left: 1109.997 $\pm$ 0.403 χ^2 /NDF: 100.9/4

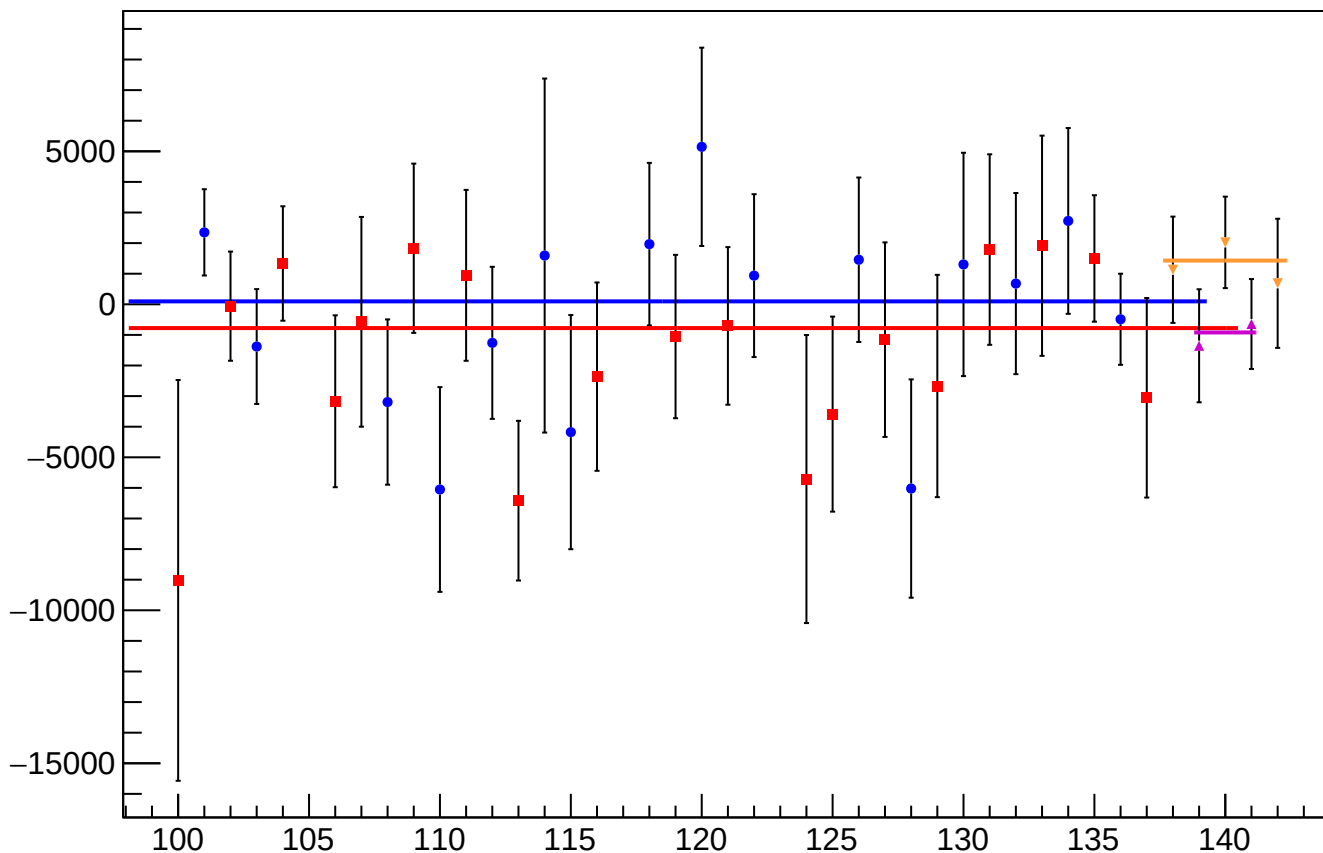
Right: 1105.104 $\pm$ 0.203 χ^2 /NDF: 22012.3/34

In: 1104.023 $\pm$ 0.261 χ^2 /NDF: 13305.9/17

Out: 1108.057 $\pm$ 0.253 χ^2 /NDF: 8801.5/21

All: 1106.098 $\pm$ 0.182 χ^2 /NDF: 22230.7/39

asym_usr_reg_correction_mean vs Slug, Sign Corrected



Right In: 95.955+/-618.095 χ^2/NDF : 16.9/15

Left Out: 1429.254+/-998.026 χ^2/NDF : 0.3/2

Right Out: -776.996+/-636.966 χ^2/NDF : 15.1/18

Left In: -919.839+/-1149.918 χ^2/NDF : 0.1/1

Left: 419.996+/-753.733 χ^2/NDF : 2.8/4

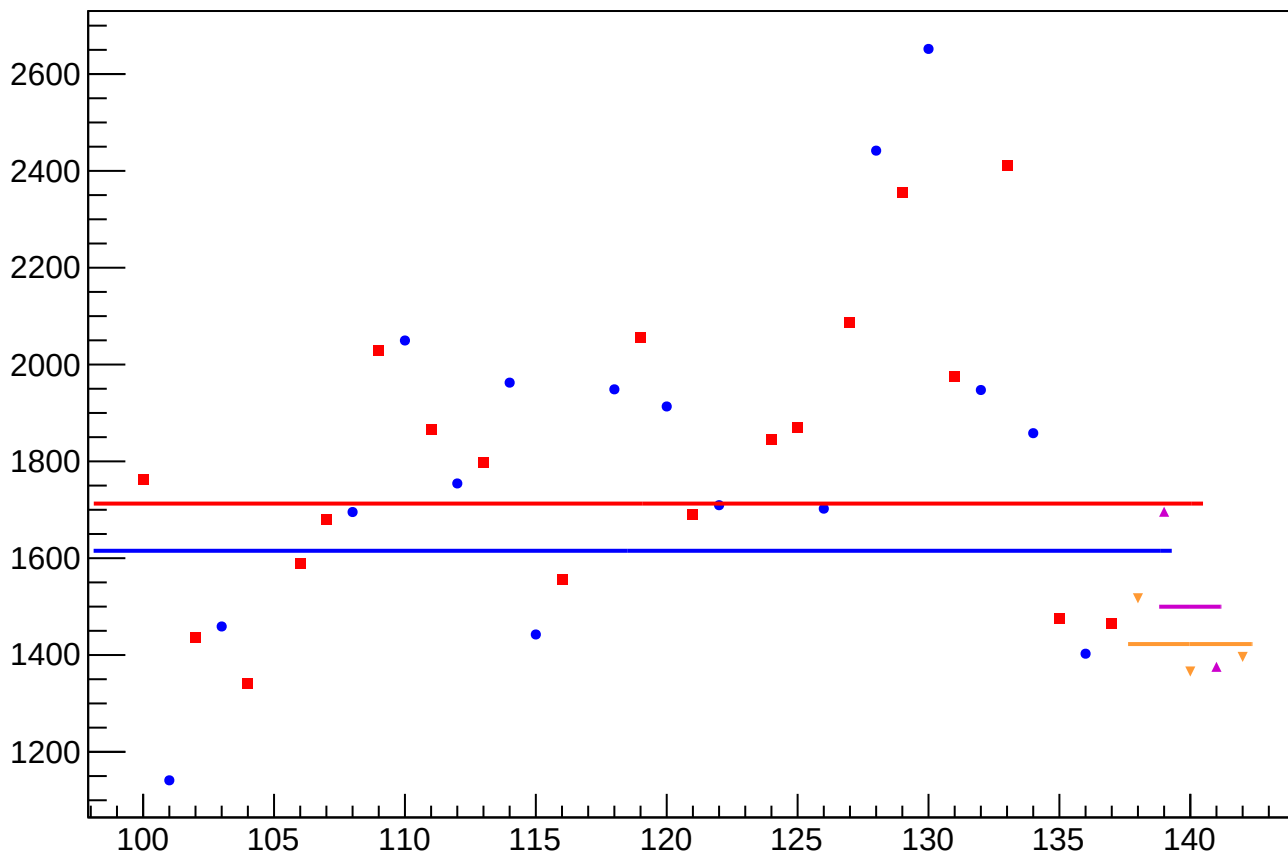
Right: -327.398+/-443.581 χ^2/NDF : 33.0/34

In: -131.742+/-544.430 χ^2/NDF : 17.6/17

Out: -138.428+/-536.931 χ^2/NDF : 18.9/21

All: -135.131+/-382.291 χ^2/NDF : 36.5/39

asym_usr_reg_correction_rms vs Slug, Sign Corrected



Right In: 1615.316+/-0.437 χ^2/NDF : 693630.0/15

Left Out: 1422.655+/-0.706 χ^2/NDF : 9128.6/2

Right Out: 1712.798+/-0.450 χ^2/NDF : 428065.0/18

Left In: 1499.810+/-0.813 χ^2/NDF : 36835.3/1

Left: 1455.803+/-0.533 χ^2/NDF : 51099.2/4

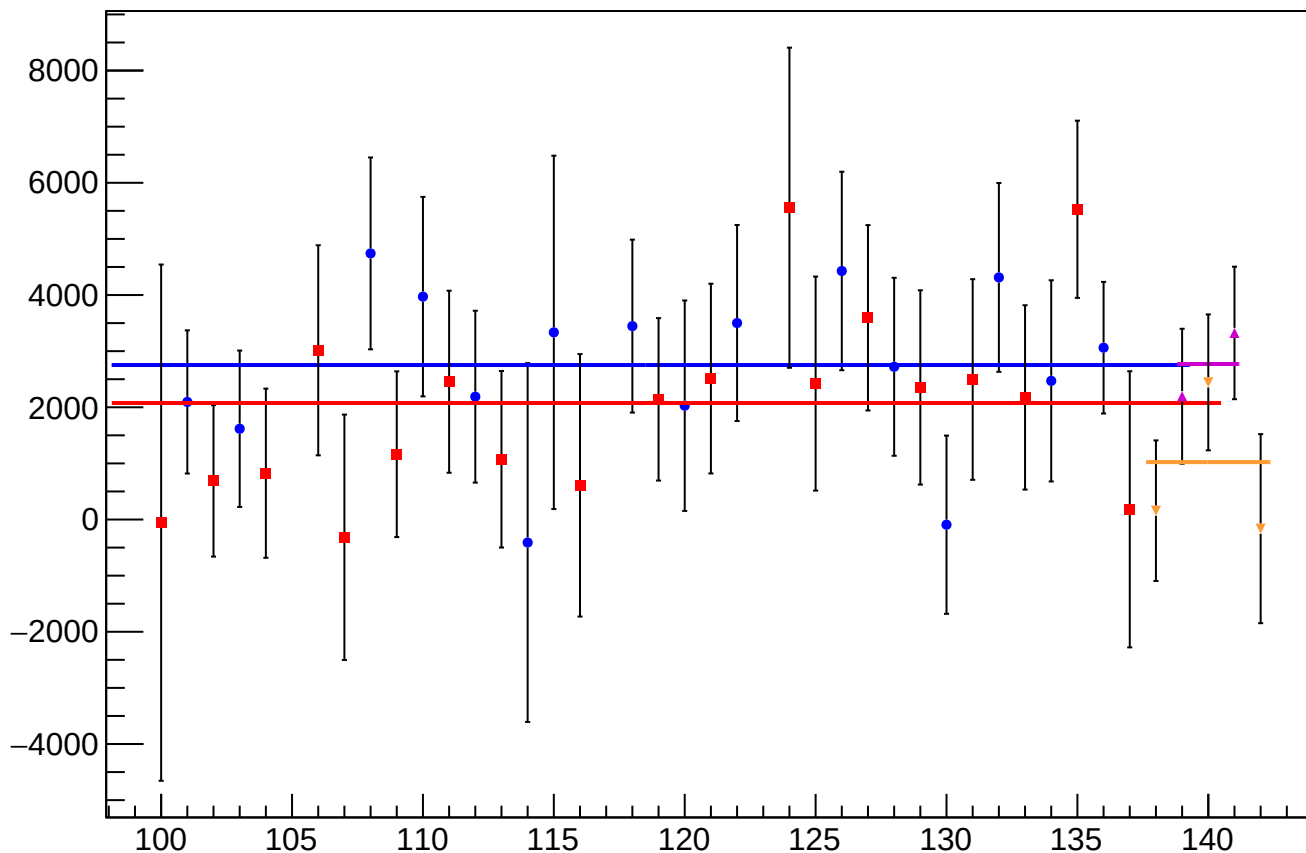
Right: 1662.591+/-0.314 χ^2/NDF : 1145820.9/34

In: 1589.424+/-0.385 χ^2/NDF : 746121.2/17

Out: 1628.820+/-0.380 χ^2/NDF : 557302.3/21

All: 1609.395+/-0.270 χ^2/NDF : 1308732.4/39

cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 2753.123 $\pm$ 409.837 χ^2 /NDF: 9.5/15

Left Out: 1022.713 $\pm$ 773.395 χ^2 /NDF: 2.3/2

Right Out: 2076.471 $\pm$ 403.796 χ^2 /NDF: 12.5/18

Left In: 2771.020 $\pm$ 842.300 χ^2 /NDF: 0.4/1

Left: 1822.442 $\pm$ 569.678 χ^2 /NDF: 5.1/4

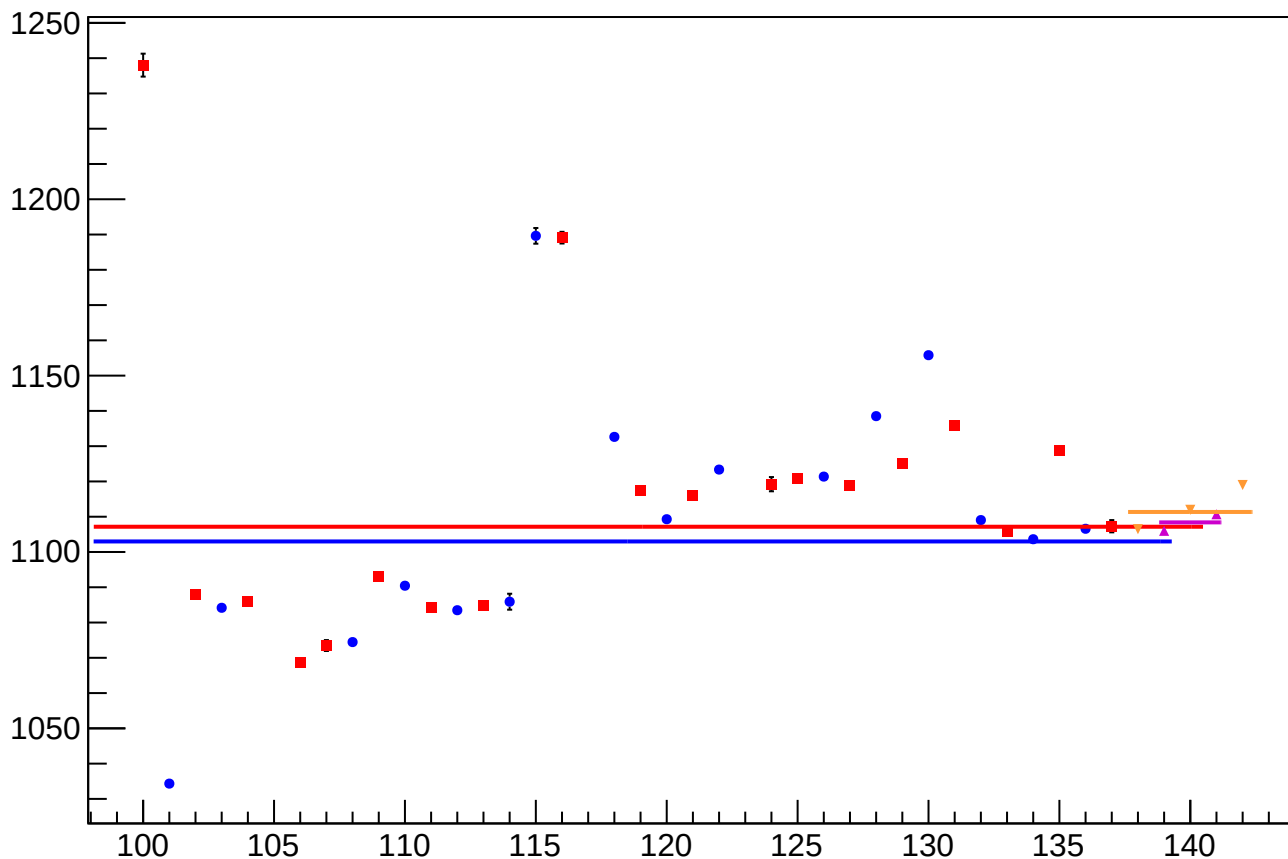
Right: 2409.773 $\pm$ 287.639 χ^2 /NDF: 23.4/34

In: 2756.549 $\pm$ 368.528 χ^2 /NDF: 10.0/17

Out: 1850.751 $\pm$ 357.945 χ^2 /NDF: 16.3/21

All: 2290.457 $\pm$ 256.765 χ^2 /NDF: 29.4/39

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1102.988 $\pm$ 0.290 χ^2 /NDF: 13223.8/15

Left Out: 1111.348 $\pm$ 0.547 χ^2 /NDF: 72.0/2

Right Out: 1107.159 $\pm$ 0.286 χ^2 /NDF: 8683.4/18

Left In: 1108.394 $\pm$ 0.596 χ^2 /NDF: 15.5/1

Left: 1109.997 $\pm$ 0.403 χ^2 /NDF: 100.9/4

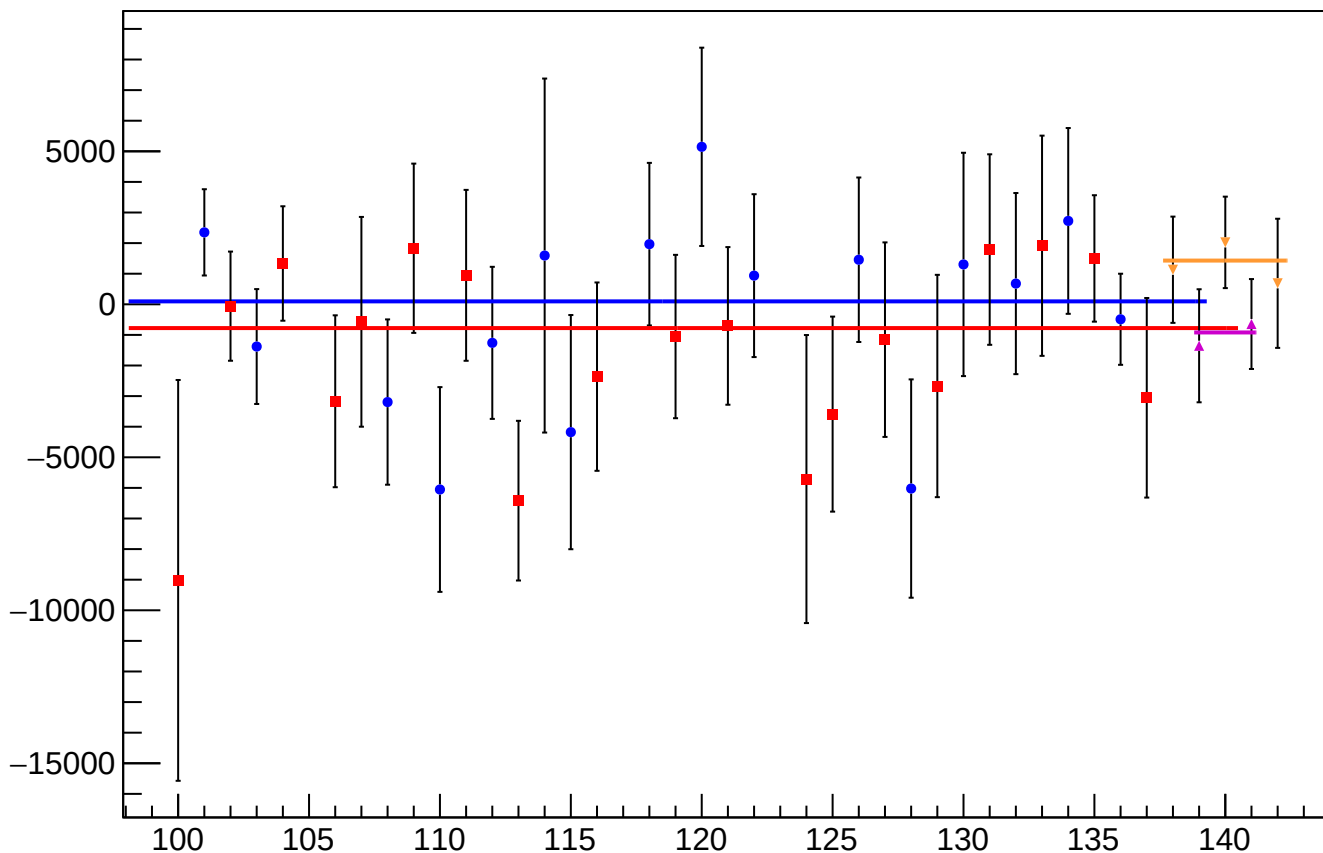
Right: 1105.104 $\pm$ 0.203 χ^2 /NDF: 22012.3/34

In: 1104.023 $\pm$ 0.261 χ^2 /NDF: 13305.9/17

Out: 1108.057 $\pm$ 0.253 χ^2 /NDF: 8801.5/21

All: 1106.098 $\pm$ 0.182 χ^2 /NDF: 22230.7/39

asym_usr_cor_correction_mean vs Slug, Sign Corrected



Right In: 95.955+/-618.095 χ^2/NDF : 16.9/15

Left Out: 1429.254+/-998.026 χ^2/NDF : 0.3/2

Right Out: -776.996+/-636.966 χ^2/NDF : 15.1/18

Left In: -919.839+/-1149.918 χ^2/NDF : 0.1/1

Left: 419.996+/-753.733 χ^2/NDF : 2.8/4

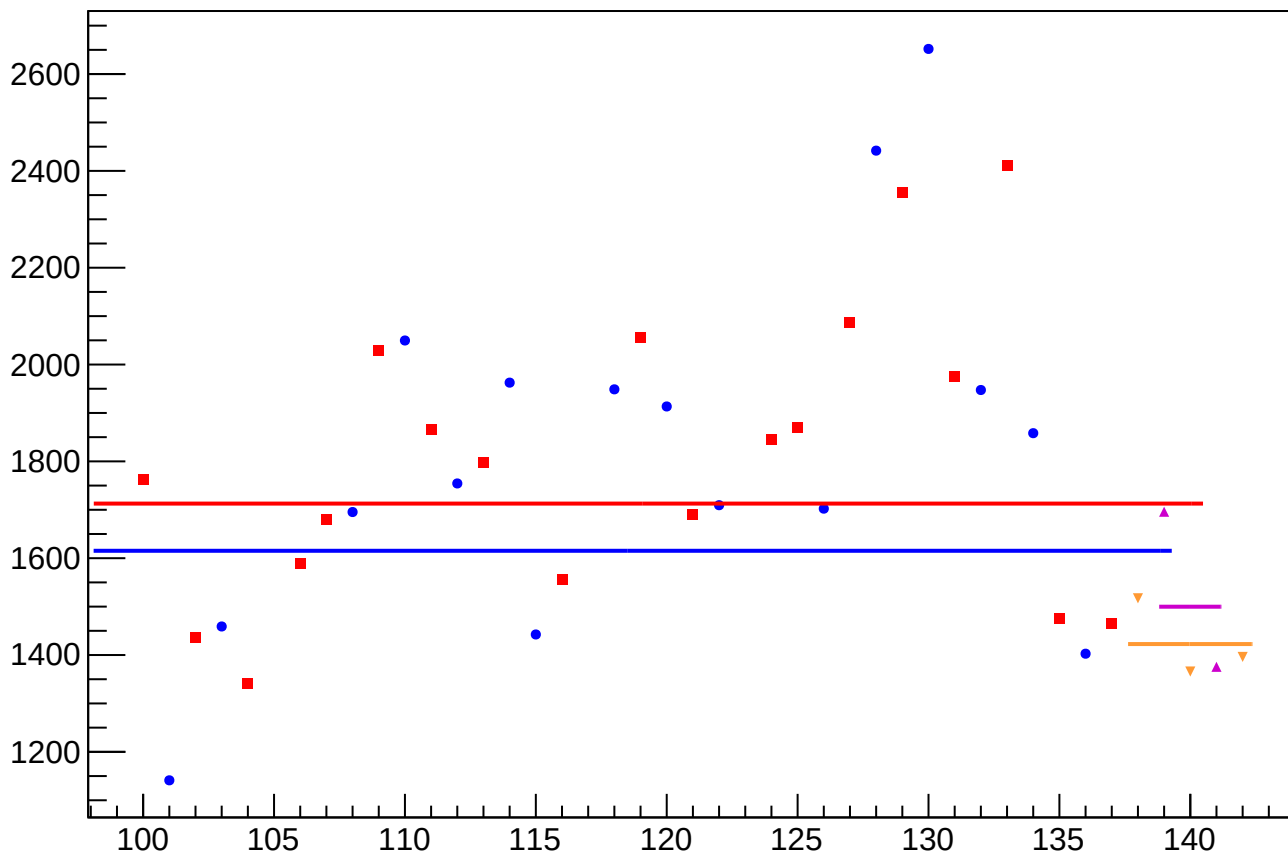
Right: -327.398+/-443.581 χ^2/NDF : 33.0/34

In: -131.742+/-544.430 χ^2/NDF : 17.6/17

Out: -138.428+/-536.931 χ^2/NDF : 18.9/21

All: -135.131+/-382.291 χ^2/NDF : 36.5/39

asym_usr_cor_correction_rms vs Slug, Sign Corrected



Right In: 1615.316+/-0.437 χ^2/NDF : 693630.0/15

Left Out: 1422.655+/-0.706 χ^2/NDF : 9128.6/2

Right Out: 1712.798+/-0.450 χ^2/NDF : 428065.0/18

Left In: 1499.810+/-0.813 χ^2/NDF : 36835.3/1

Left: 1455.803+/-0.533 χ^2/NDF : 51099.2/4

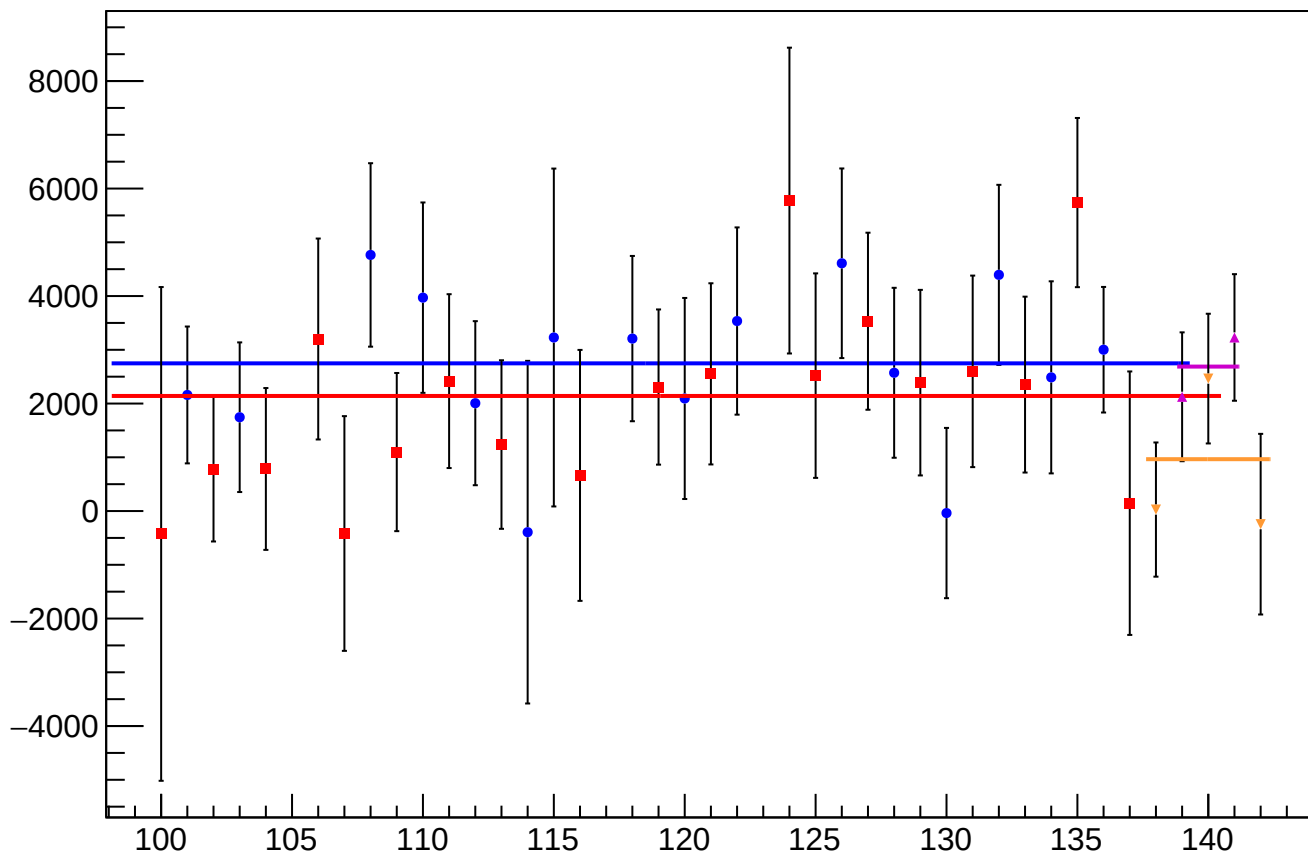
Right: 1662.591+/-0.314 χ^2/NDF : 1145820.9/34

In: 1589.424+/-0.385 χ^2/NDF : 746121.2/17

Out: 1628.820+/-0.380 χ^2/NDF : 557302.3/21

All: 1609.395+/-0.270 χ^2/NDF : 1308732.4/39

overload_cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 2747.939 $\pm$ 408.759 χ^2 /NDF: 9.5/15

Left Out: 964.932 $\pm$ 770.891 χ^2 /NDF:2.6/2

Right Out: 2141.169 $\pm$ 402.789 χ^2 /NDF: 13.6/18

Left In: 2687.651 $\pm$ 840.058 χ^2 /NDF:0.4/1

Left: 1752.463 $\pm$ 567.983 χ^2 /NDF: 5.3/4

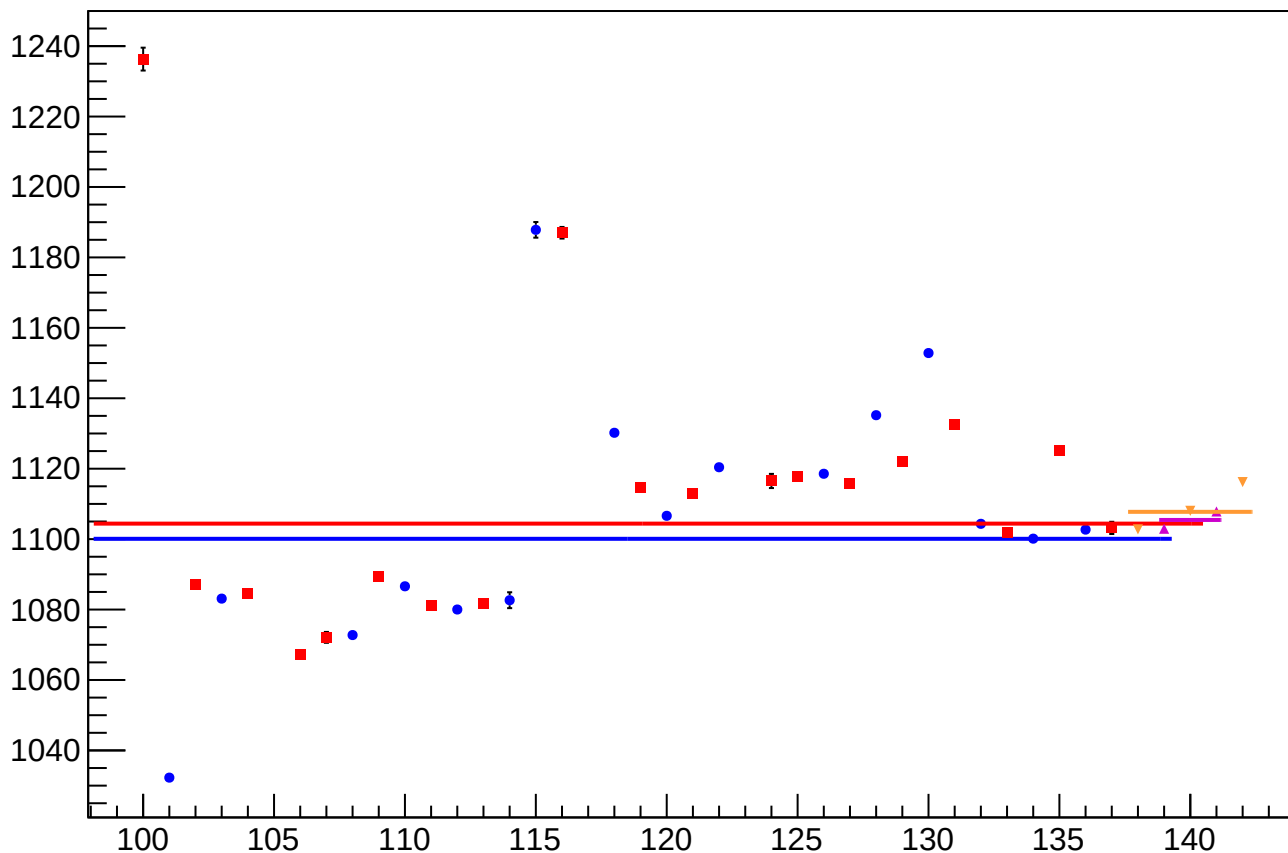
Right: 2440.090 $\pm$ 286.902 χ^2 /NDF: 24.2/34

In: 2736.398 $\pm$ 367.557 χ^2 /NDF:9.9/17

Out: 1888.918 $\pm$ 356.995 χ^2 /NDF:18.0/21

All: 2300.307 $\pm$ 256.086 χ^2 /NDF: 30.7/39

overload_cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1100.090+/-0.289 χ^2/NDF : 13077.1/15

Left Out: 1107.750+/-0.545 χ^2/NDF : 82.5/2

Right Out: 1104.403+/-0.285 χ^2/NDF : 8543.5/18

Left In: 1105.443+/-0.594 χ^2/NDF : 17.0/1

Left: 1106.696+/-0.402 χ^2/NDF : 107.7/4

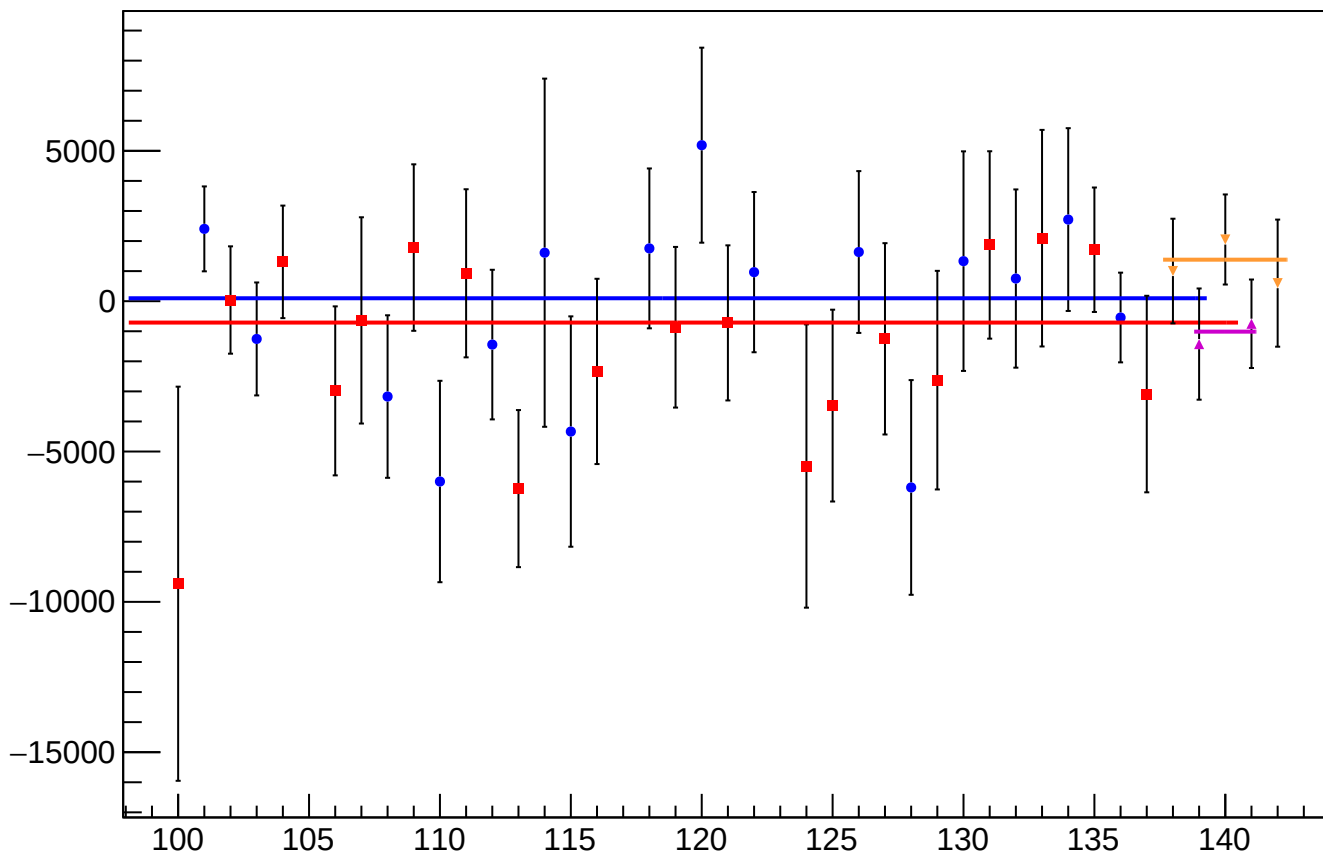
Right: 1102.278+/-0.203 χ^2/NDF : 21733.6/34

In: 1101.115+/-0.260 χ^2/NDF : 13159.8/17

Out: 1105.121+/-0.252 χ^2/NDF : 8655.6/21

All: 1103.176+/-0.181 χ^2/NDF : 21937.7/39

asym_usr_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: 97.435+/-618.876 χ^2/NDF : 17.2/15

Left Out: 1380.290+/-999.993 χ^2/NDF : 0.4/2

Right Out: -711.287+/-637.587 χ^2/NDF : 14.9/18

Left In: -1013.120+/-1151.594 χ^2/NDF : 0.1/1

Left: 351.393+/-755.052 χ^2/NDF : 2.9/4

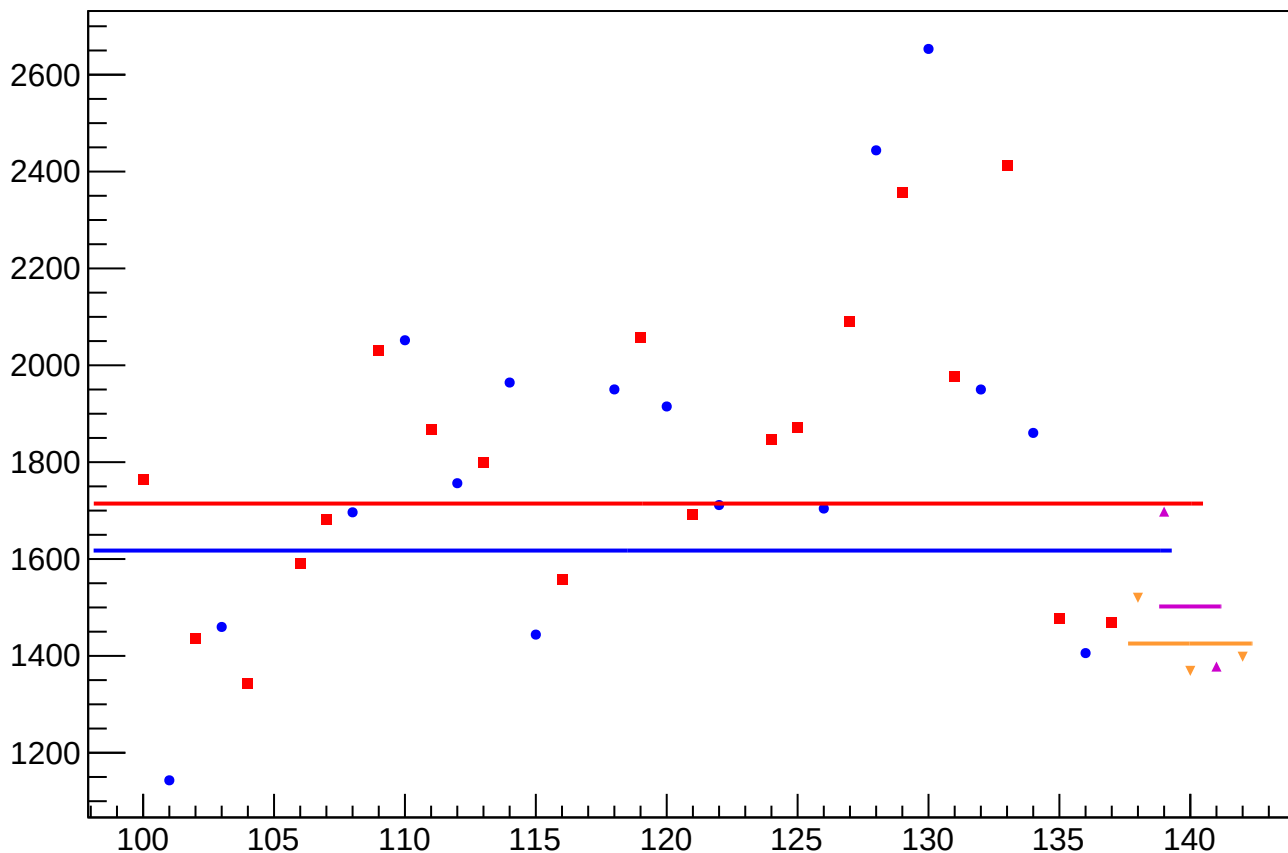
Right: -294.885+/-444.079 χ^2/NDF : 33.0/34

In: -151.428+/-545.142 χ^2/NDF : 18.0/17

Out: -106.765+/-537.608 χ^2/NDF : 18.4/21

All: -128.786+/-382.782 χ^2/NDF : 36.5/39

asym_usr_overload_cor_correction_rms vs Slug, Sign Corrected



Right In: 1617.491+/-0.438 χ^2/NDF : 691725.3/15

Left Out: 1425.512+/-0.707 χ^2/NDF : 9078.1/2

Right Out: 1714.508+/-0.451 χ^2/NDF : 427709.9/18

Left In: 1502.048+/-0.814 χ^2/NDF : 36648.5/1

Left: 1458.414+/-0.534 χ^2/NDF : 50762.9/4

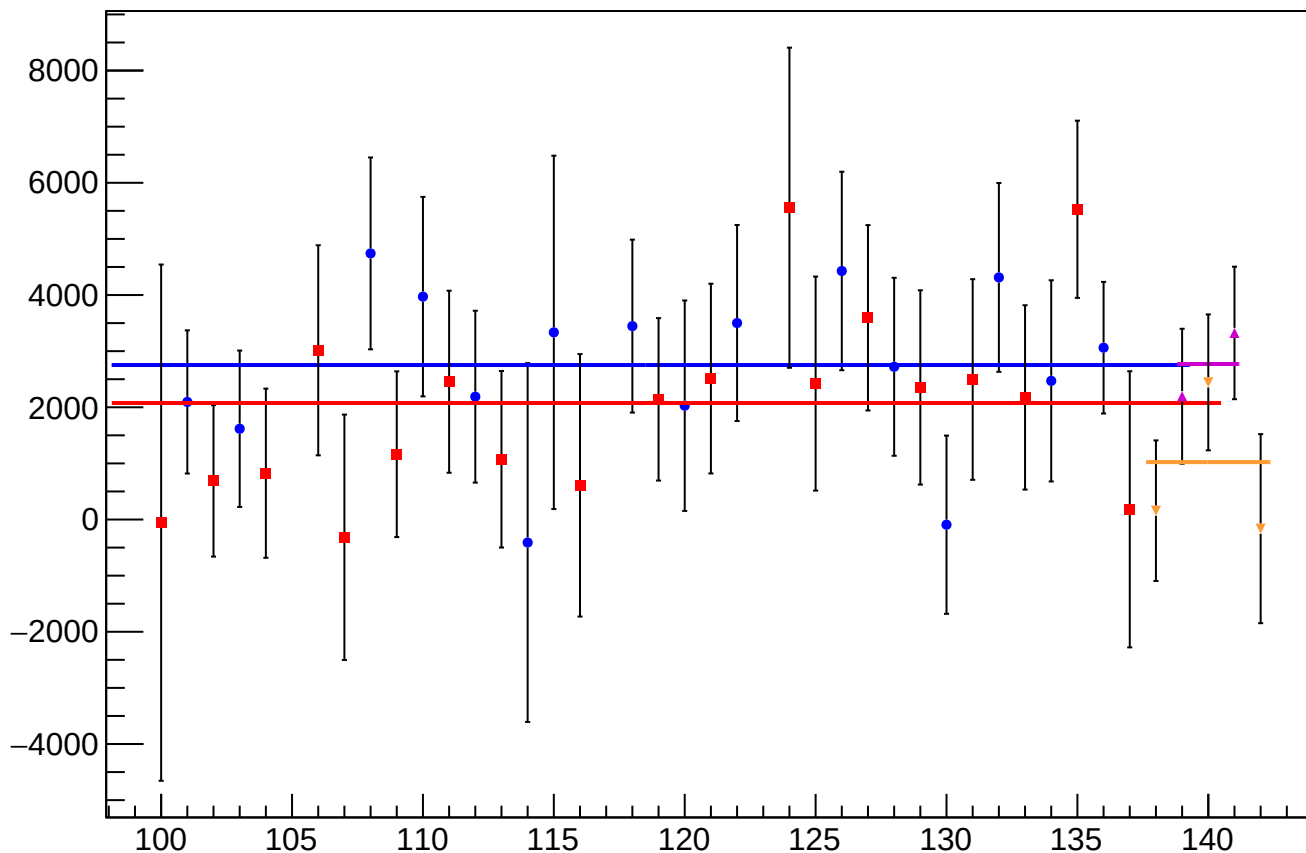
Right: 1664.555+/-0.314 χ^2/NDF : 1143278.0/34

In: 1591.621+/-0.385 χ^2/NDF : 743968.5/17

Out: 1630.980+/-0.380 χ^2/NDF : 555548.2/21

All: 1611.575+/-0.271 χ^2/NDF : 1304802.0/39

eigen_cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 2753.123 $\pm$ 409.837 χ^2 /NDF: 9.5/15

Left Out: 1022.713 $\pm$ 773.395 χ^2 /NDF: 2.3/2

Right Out: 2076.471 $\pm$ 403.796 χ^2 /NDF: 12.5/18

Left In: 2771.020 $\pm$ 842.300 χ^2 /NDF: 0.4/1

Left: 1822.442 $\pm$ 569.678 χ^2 /NDF: 5.1/4

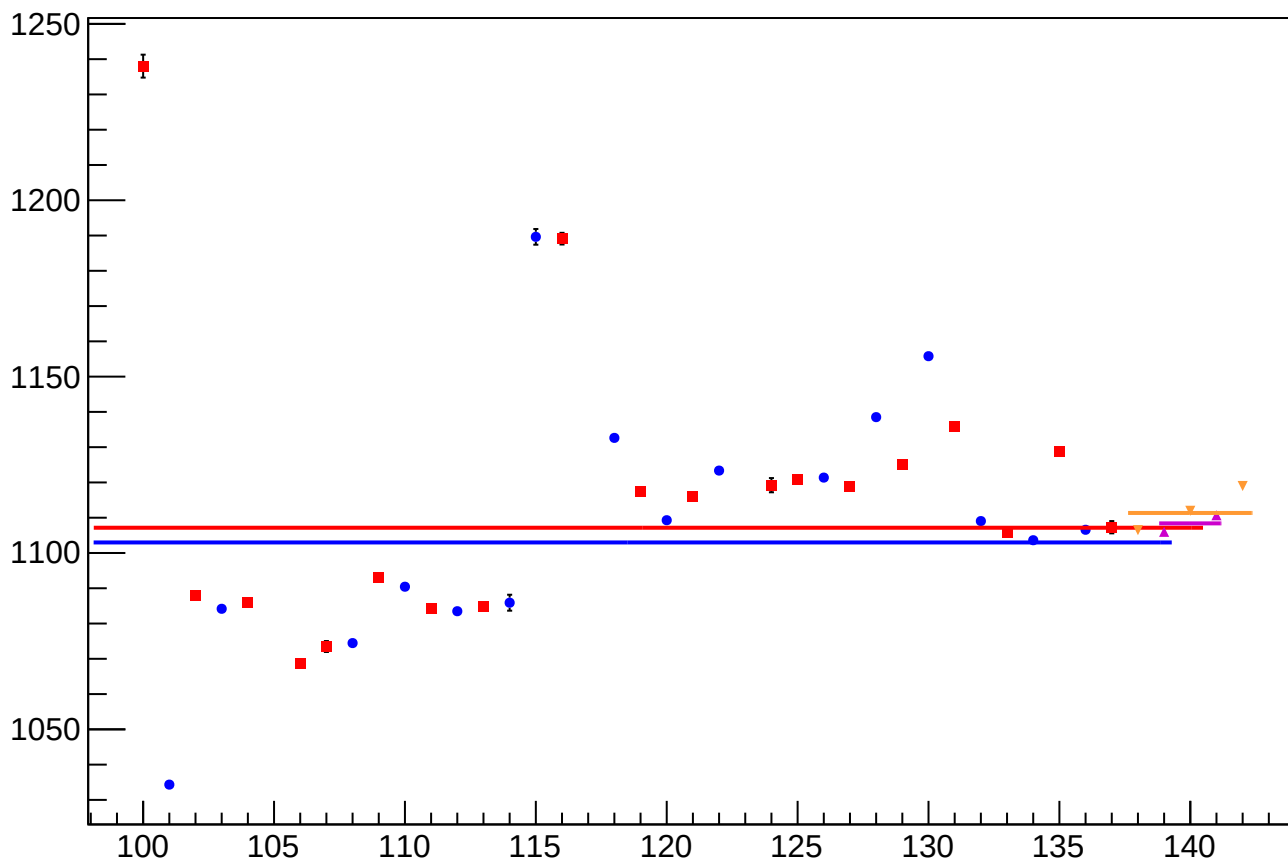
Right: 2409.773 $\pm$ 287.639 χ^2 /NDF: 23.4/34

In: 2756.549 $\pm$ 368.528 χ^2 /NDF: 10.0/17

Out: 1850.751 $\pm$ 357.945 χ^2 /NDF: 16.3/21

All: 2290.457 $\pm$ 256.765 χ^2 /NDF: 29.4/39

eigen_cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1102.988 $\pm$ 0.290 χ^2 /NDF: 13223.8/15

Left Out: 1111.348 $\pm$ 0.547 χ^2 /NDF: 72.0/2

Right Out: 1107.159 $\pm$ 0.286 χ^2 /NDF: 8683.4/18

Left In: 1108.394 $\pm$ 0.596 χ^2 /NDF: 15.5/1

Left: 1109.997 $\pm$ 0.403 χ^2 /NDF: 100.9/4

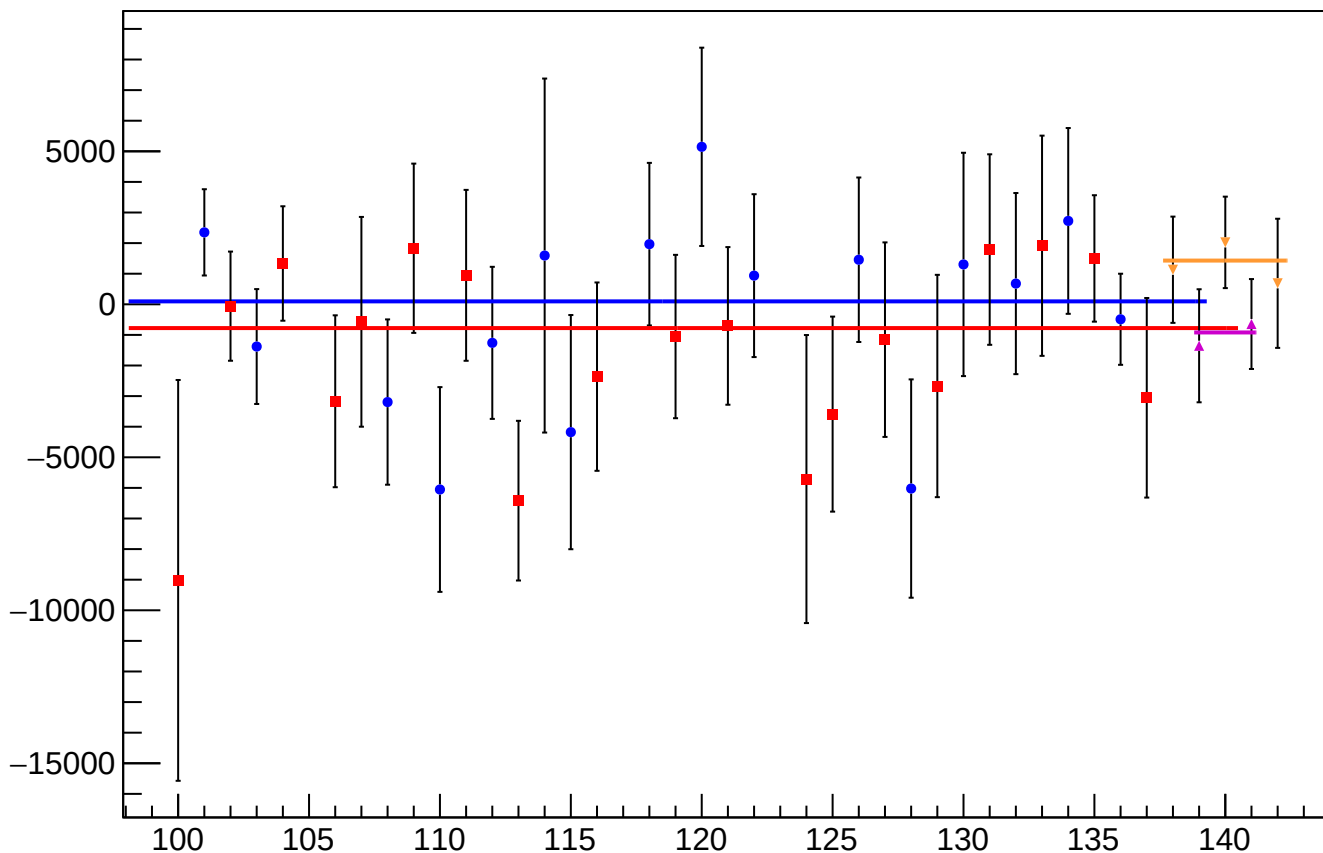
Right: 1105.104 $\pm$ 0.203 χ^2 /NDF: 22012.3/34

In: 1104.023 $\pm$ 0.261 χ^2 /NDF: 13305.9/17

Out: 1108.057 $\pm$ 0.253 χ^2 /NDF: 8801.5/21

All: 1106.098 $\pm$ 0.182 χ^2 /NDF: 22230.7/39

asym_usr_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 95.955+/-618.095 χ^2/NDF : 16.9/15

Left Out: 1429.254+/-998.026 χ^2/NDF : 0.3/2

Right Out: -776.996+/-636.966 χ^2/NDF : 15.1/18

Left In: -919.839+/-1149.918 χ^2/NDF : 0.1/1

Left: 419.996+/-753.733 χ^2/NDF : 2.8/4

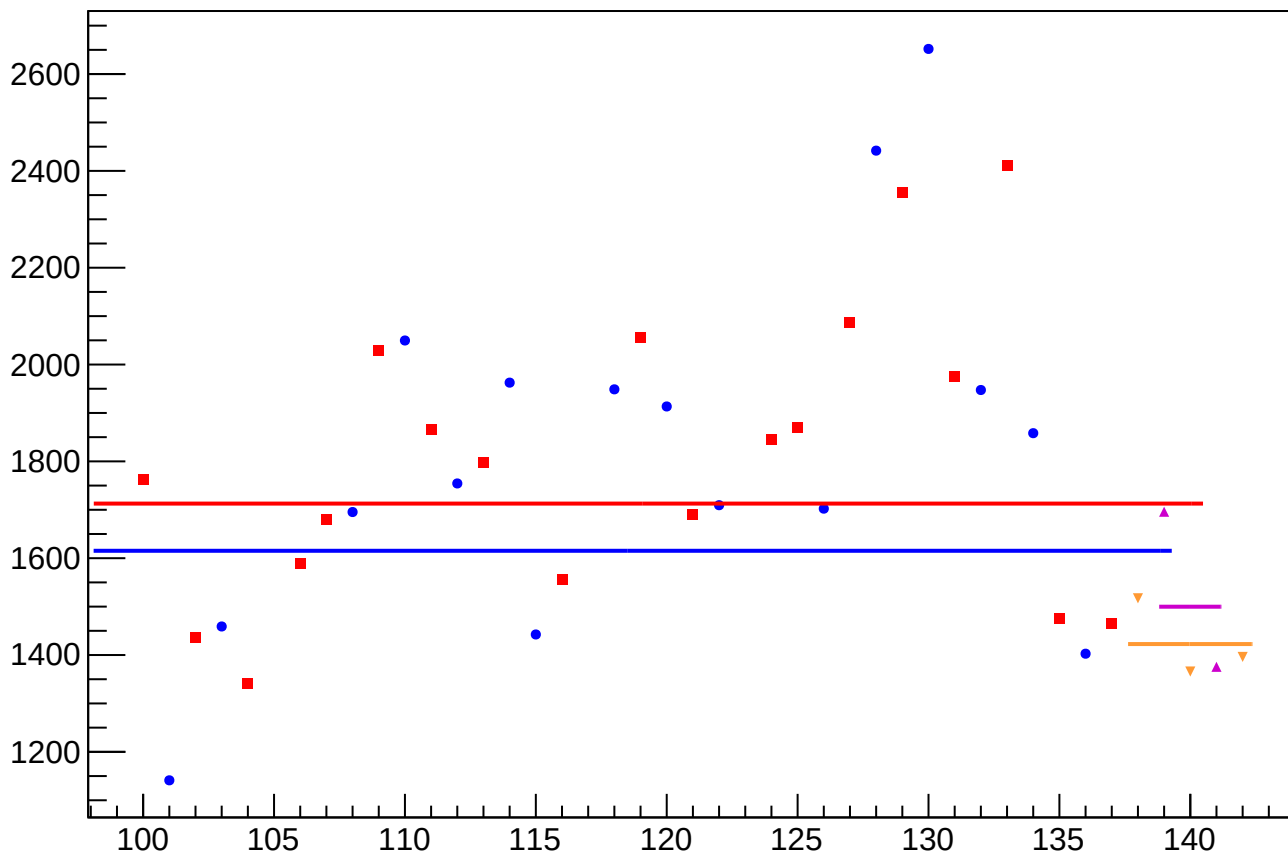
Right: -327.398+/-443.581 χ^2/NDF : 33.0/34

In: -131.742+/-544.430 χ^2/NDF : 17.6/17

Out: -138.428+/-536.931 χ^2/NDF : 18.9/21

All: -135.131+/-382.291 χ^2/NDF : 36.5/39

asym_usr_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1615.316+/-0.437 χ^2/NDF : 693630.0/15

Left Out: 1422.655+/-0.706 χ^2/NDF : 9128.6/2

Right Out: 1712.798+/-0.450 χ^2/NDF : 428065.0/18

Left In: 1499.810+/-0.813 χ^2/NDF : 36835.3/1

Left: 1455.803+/-0.533 χ^2/NDF : 51099.2/4

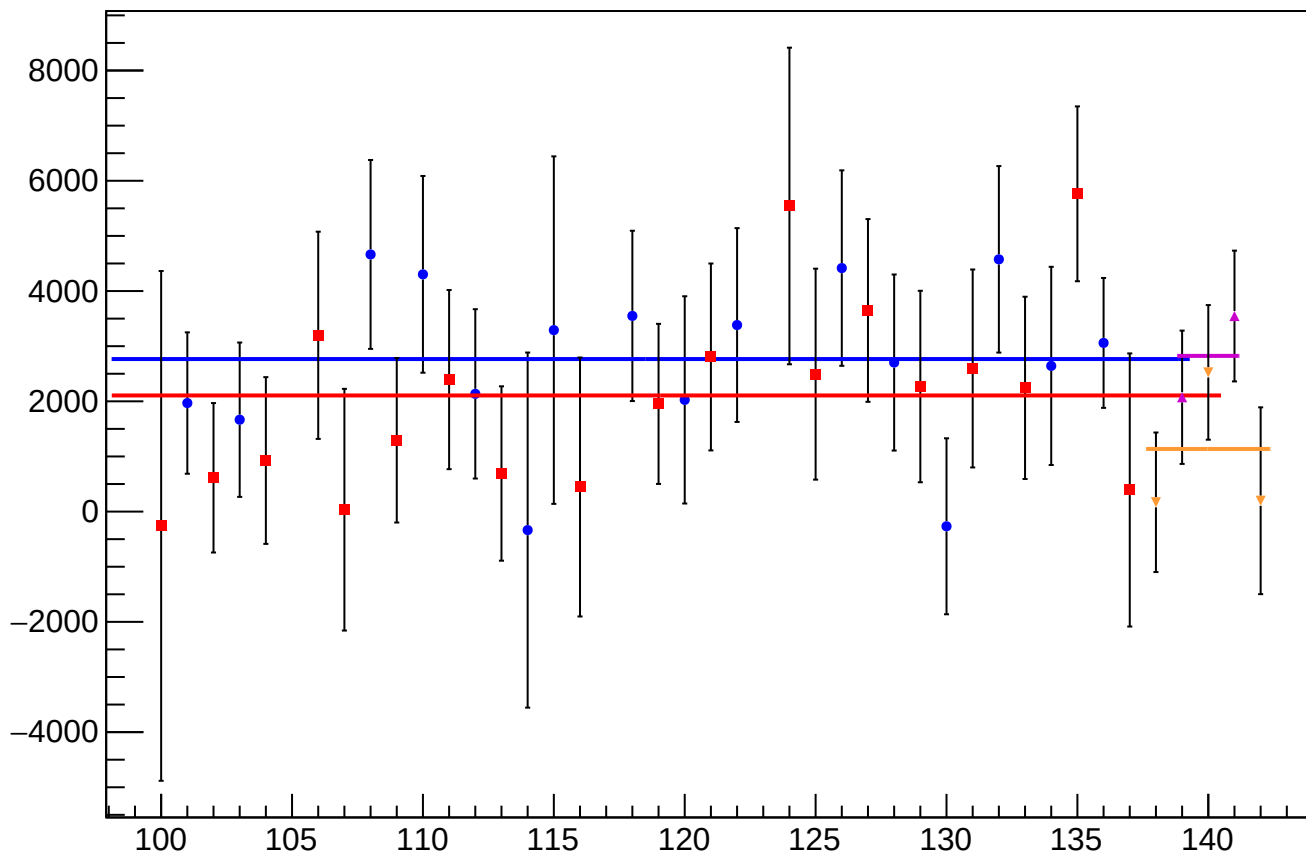
Right: 1662.591+/-0.314 χ^2/NDF : 1145820.9/34

In: 1589.424+/-0.385 χ^2/NDF : 746121.2/17

Out: 1628.820+/-0.380 χ^2/NDF : 557302.3/21

All: 1609.395+/-0.270 χ^2/NDF : 1308732.4/39

dit_asym_usr_mean vs Slug, Sign Corrected



Right In: 2766.657 $\pm$ 411.563 χ^2 /NDF: 10.3/15

Left Out: 1136.085 $\pm$ 779.941 χ^2 /NDF: 2.2/2

Right Out: 2106.358 $\pm$ 405.586 χ^2 /NDF: 13.4/18

Left In: 2824.237 $\pm$ 846.546 χ^2 /NDF: 0.8/1

Left: 1911.147 $\pm$ 573.605 χ^2 /NDF: 5.1/4

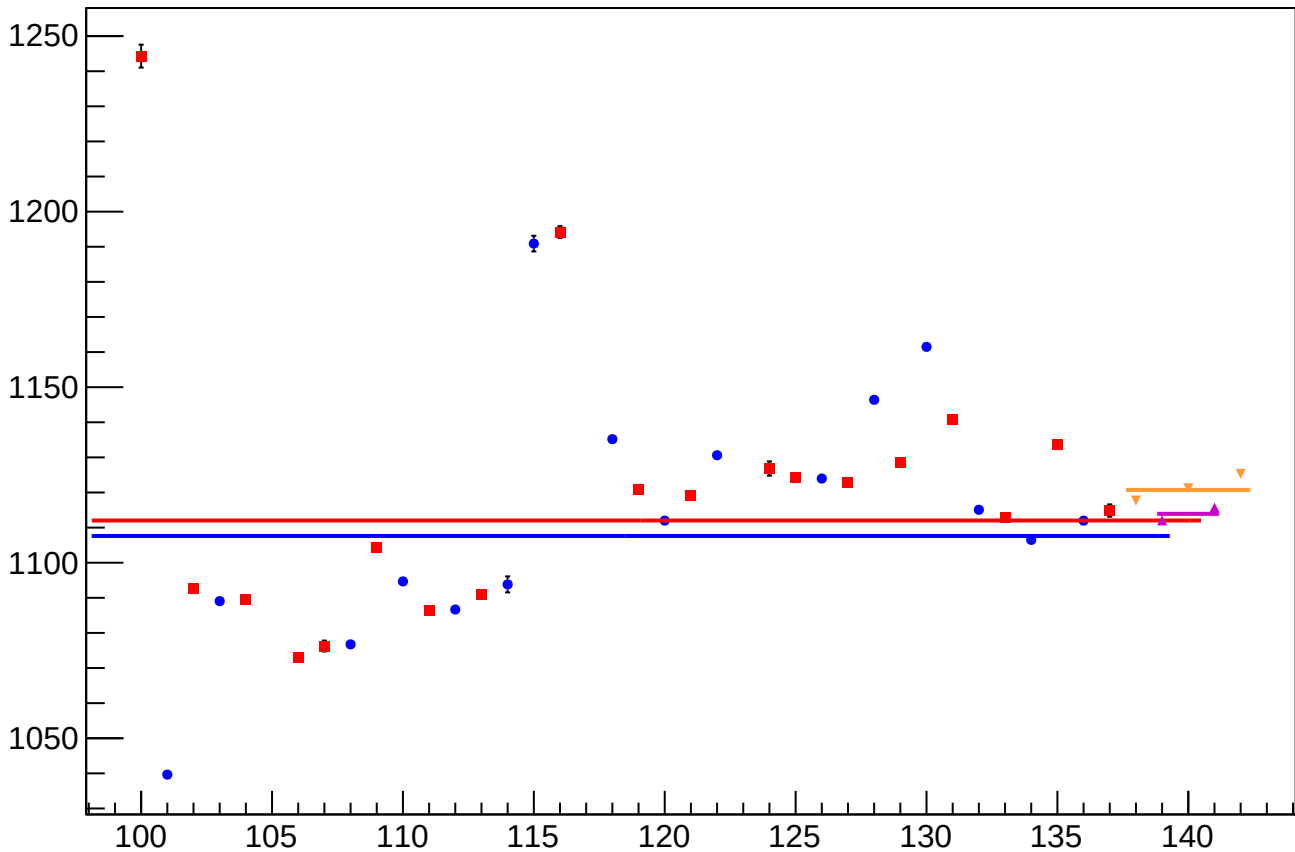
Right: 2431.678 $\pm$ 288.883 χ^2 /NDF: 25.0/34

In: 2777.664 $\pm$ 370.138 χ^2 /NDF: 11.1/17

Out: 1899.826 $\pm$ 359.840 χ^2 /NDF: 16.8/21

All: 2326.363 $\pm$ 258.009 χ^2 /NDF: 30.7/39

dit_asym_usr_rms vs Slug, Sign Corrected



Right In: 1107.613 +/- 0.291 χ^2/NDF : 13220.8/15

Left Out: 1120.734 +/- 0.552 χ^2/NDF : 26.2/2

Right Out: 1112.029 +/- 0.287 χ^2/NDF : 8653.5/18

Left In: 1113.927 +/- 0.599 χ^2/NDF : 9.3/1

Left: 1117.609 +/- 0.406 χ^2/NDF : 105.4/4

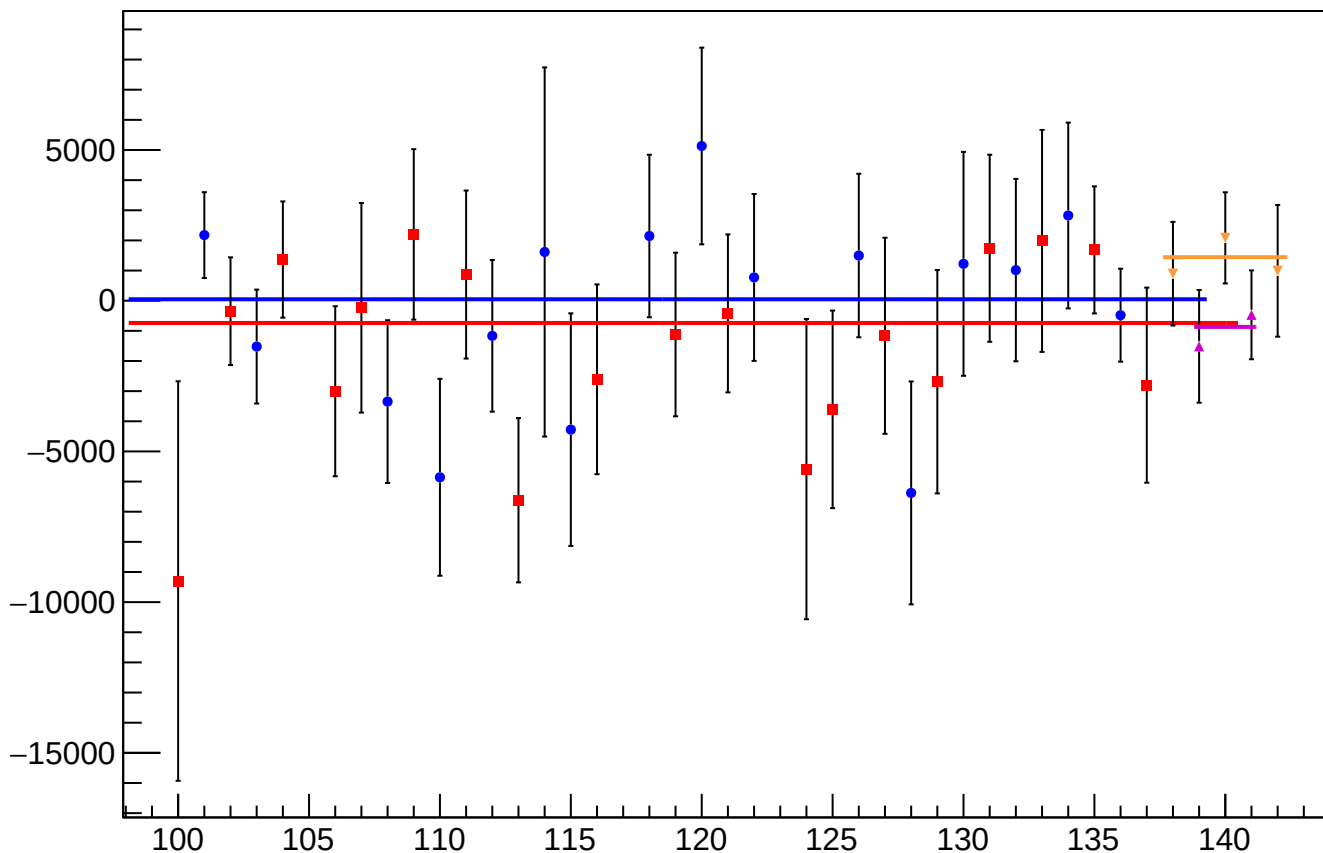
Right: 1109.854 +/- 0.204 χ^2/NDF : 21991.1/34

In: 1108.821 +/- 0.262 χ^2/NDF : 13320.1/17

Out: 1113.882 +/- 0.254 χ^2/NDF : 8875.7/21

All: 1111.423 +/- 0.182 χ^2/NDF : 22388.1/39

asym_usr_dit_correction_mean vs Slug, Sign Corrected



Right In: 47.817+/-628.060 χ^2/NDF : 16.9/15

Left Out: 1443.999+/-1007.572 χ^2/NDF : 0.3/2

Right Out: -738.185+/-647.795 χ^2/NDF : 14.9/18

Left In: -869.279+/-1157.254 χ^2/NDF : 0.2/1

Left: 446.546+/-759.908 χ^2/NDF : 2.8/4

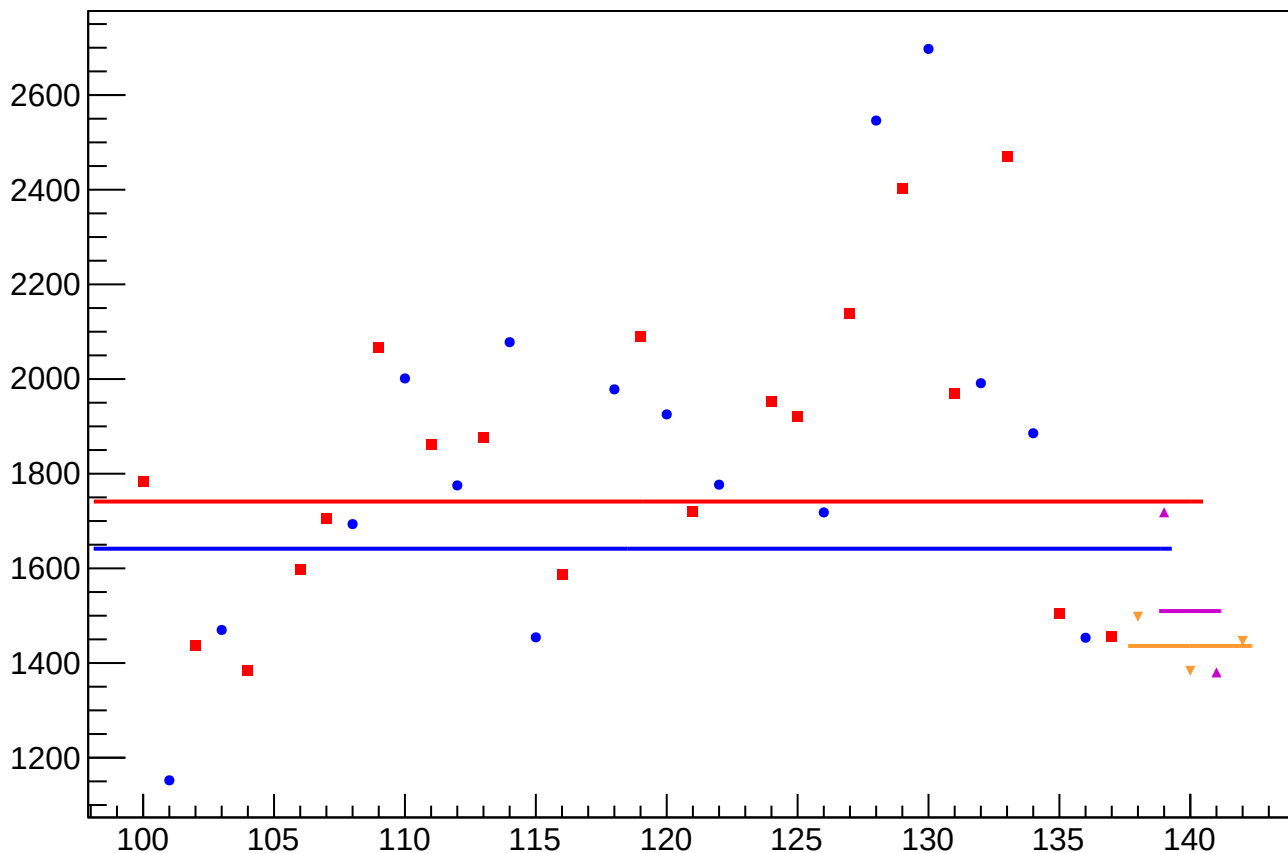
Right: -333.029+/-450.921 χ^2/NDF : 32.6/34

In: -160.845+/-552.006 χ^2/NDF : 17.6/17

Out: -99.975+/-544.894 χ^2/NDF : 18.6/21

All: -130.015+/-387.788 χ^2/NDF : 36.1/39

asym_usr_dit_correction_rms vs Slug, Sign Corrected



Right In: 1641.538+/-0.444 χ^2/NDF : 701311.4/15

Left Out: 1436.082+/-0.712 χ^2/NDF : 5059.0/2

Right Out: 1741.200+/-0.458 χ^2/NDF : 438336.6/18

Left In: 1509.824+/-0.818 χ^2/NDF : 40383.6/1

Left: 1467.879+/-0.537 χ^2/NDF : 50062.0/4

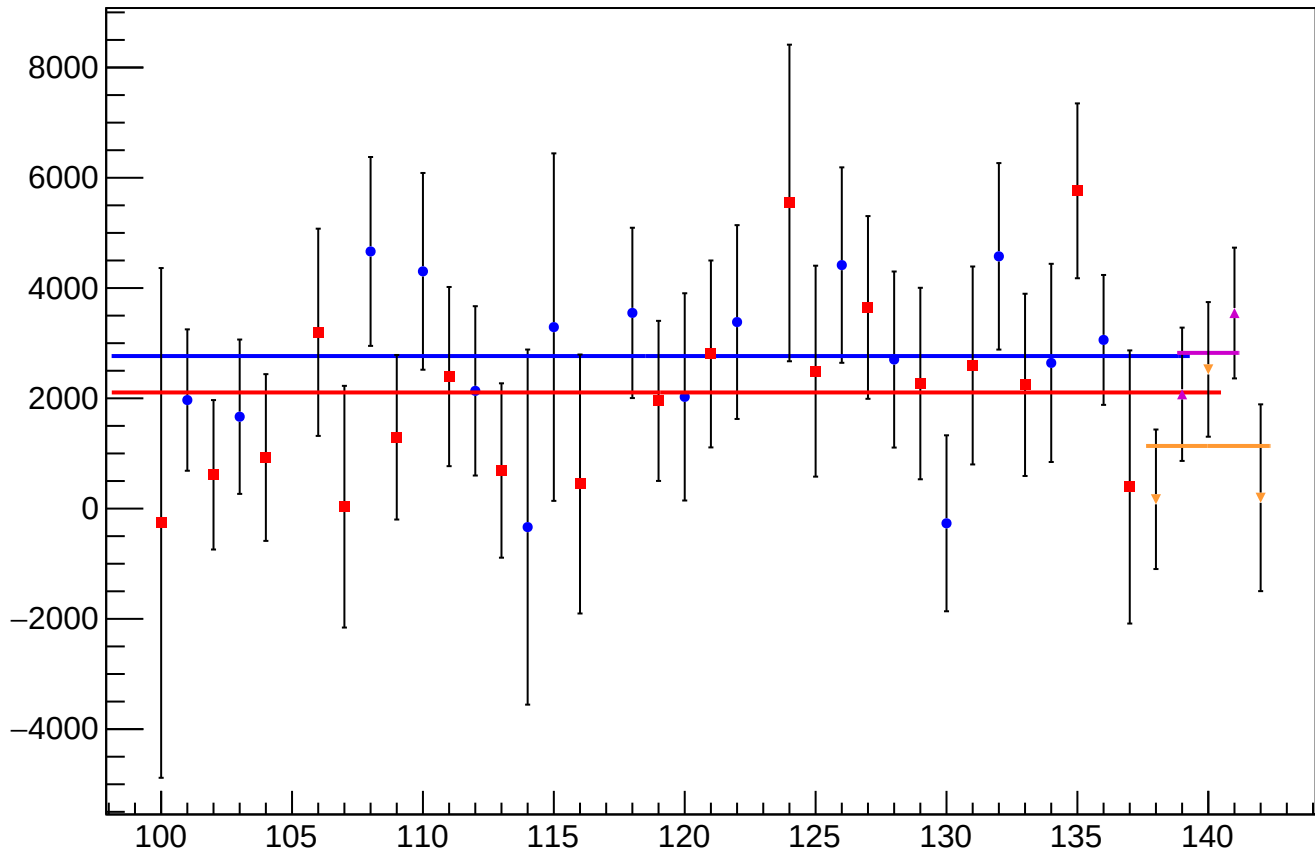
Right: 1689.828+/-0.319 χ^2/NDF : 1164049.3/34

In: 1611.570+/-0.390 χ^2/NDF : 761708.3/17

Out: 1651.964+/-0.385 χ^2/NDF : 573161.9/21

All: 1632.029+/-0.274 χ^2/NDF : 1340294.6/39

eigen_dit_asym_usr_mean vs Slug, Sign Corrected



Right In: 2766.656 $\pm$ 411.563 χ^2 /NDF: 10.3/15

Left Out: 1136.088 $\pm$ 779.941 χ^2 /NDF: 2.2/2

Right Out: 2106.360 $\pm$ 405.586 χ^2 /NDF: 13.4/18

Left In: 2824.231 $\pm$ 846.546 χ^2 /NDF: 0.8/1

Left: 1911.145 $\pm$ 573.605 χ^2 /NDF: 5.1/4

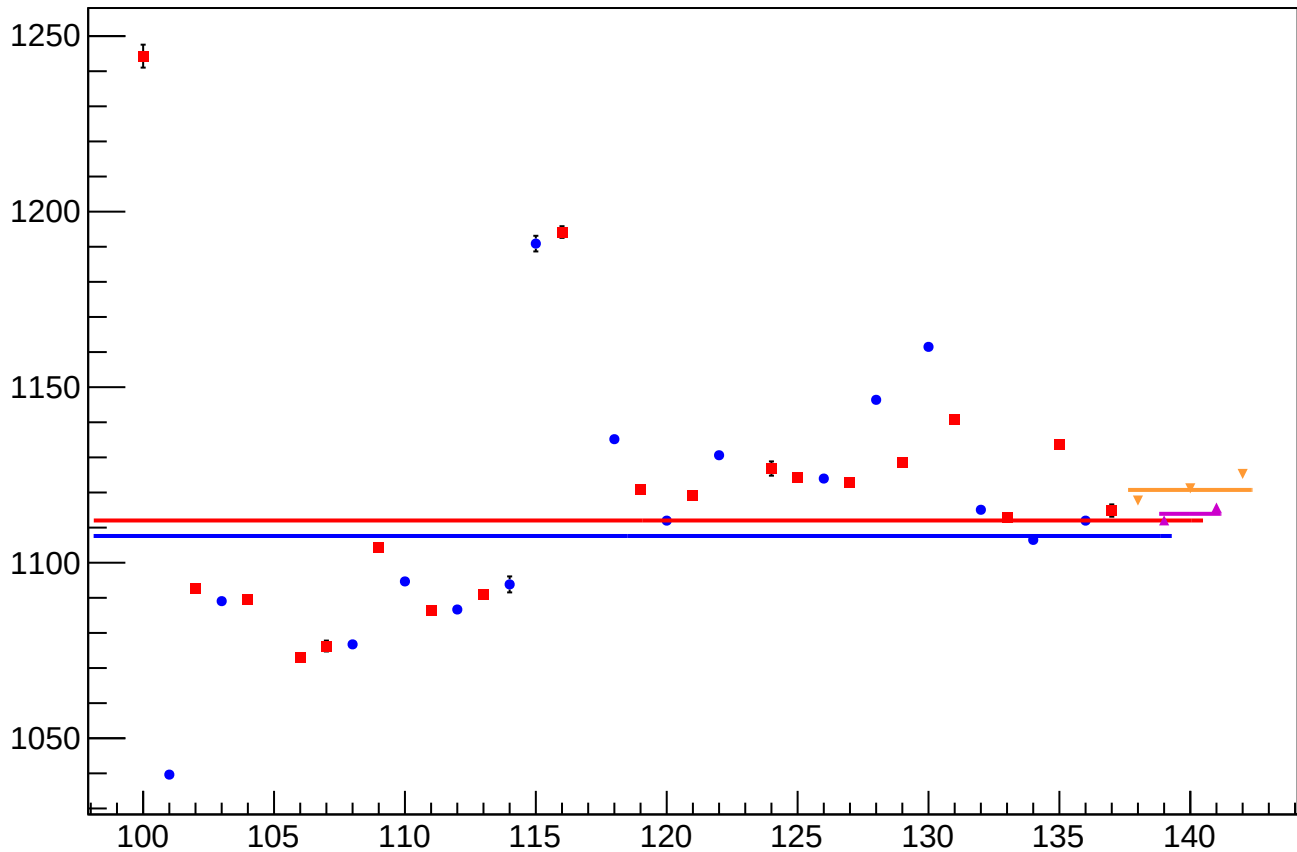
Right: 2431.678 $\pm$ 288.882 χ^2 /NDF: 25.0/34

In: 2777.663 $\pm$ 370.138 χ^2 /NDF: 11.1/17

Out: 1899.828 $\pm$ 359.839 χ^2 /NDF: 16.8/21

All: 2326.363 $\pm$ 258.009 χ^2 /NDF: 30.7/39

eigen_dit_asym_usr_rms vs Slug, Sign Corrected



Right In: 1107.613 $\pm$ 0.291 χ^2 /NDF: 13220.7/15

Left Out: 1120.734 $\pm$ 0.552 χ^2 /NDF:26.2/2

Right Out: 1112.029 $\pm$ 0.287 χ^2 /NDF: 8653.5/18

Left In: 1113.927 $\pm$ 0.599 χ^2 /NDF:9.3/1

Left: 1117.609 $\pm$ 0.406 χ^2 /NDF: 105.4/4

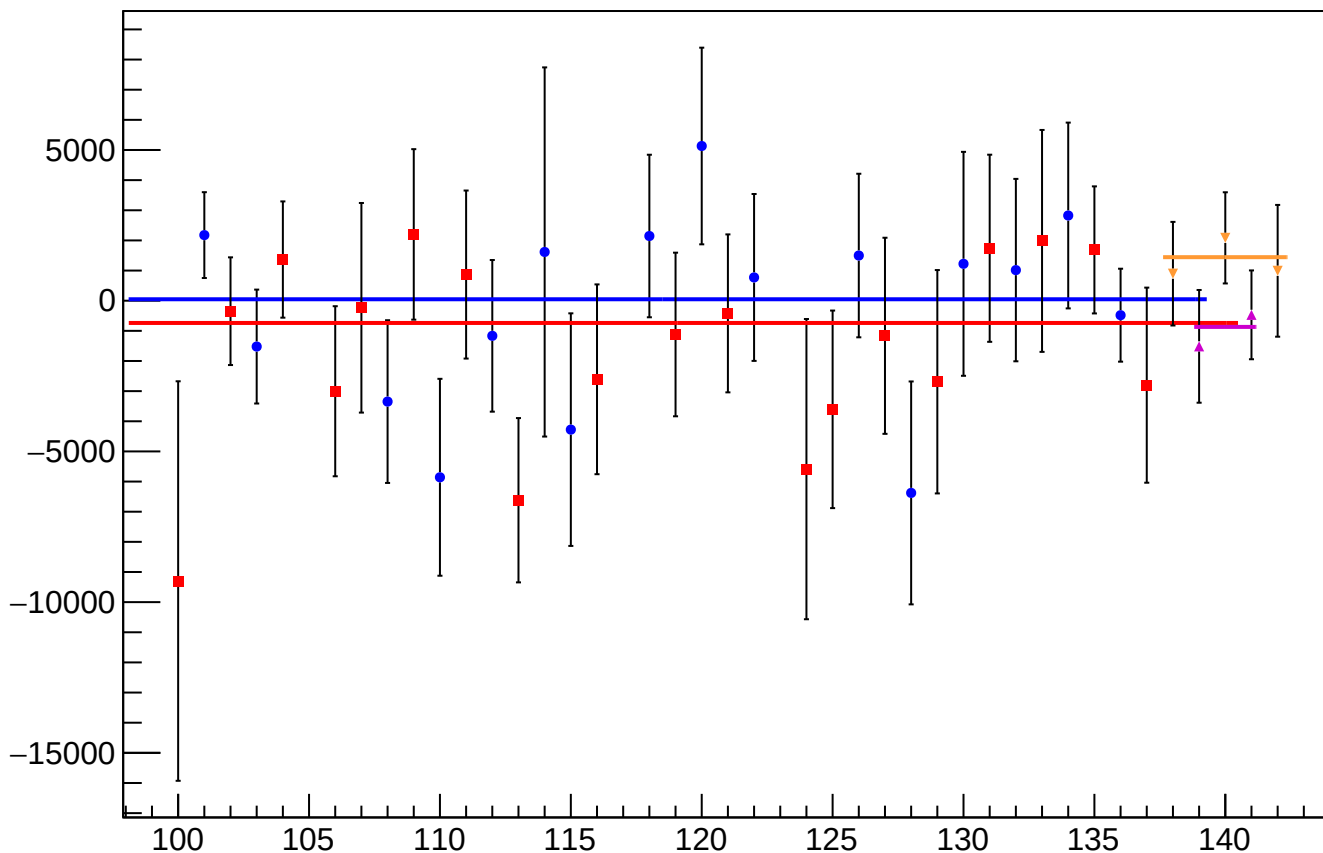
Right: 1109.853 $\pm$ 0.204 χ^2 /NDF: 21991.0/34

In: 1108.820 $\pm$ 0.262 χ^2 /NDF:13320.0/17

Out: 1113.882 $\pm$ 0.254 χ^2 /NDF:8875.7/21

All: 1111.423 $\pm$ 0.182 χ^2 /NDF: 22388.0/39

asym_usr_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 47.813+/-628.059 χ^2/NDF : 16.9/15

Left Out: 1444.004+/-1007.575 χ^2/NDF : 0.3/2

Right Out: -738.188+/-647.795 χ^2/NDF : 14.9/18

Left In: -869.282+/-1157.257 χ^2/NDF : 0.2/1

Left: 446.547+/-759.910 χ^2/NDF : 2.8/4

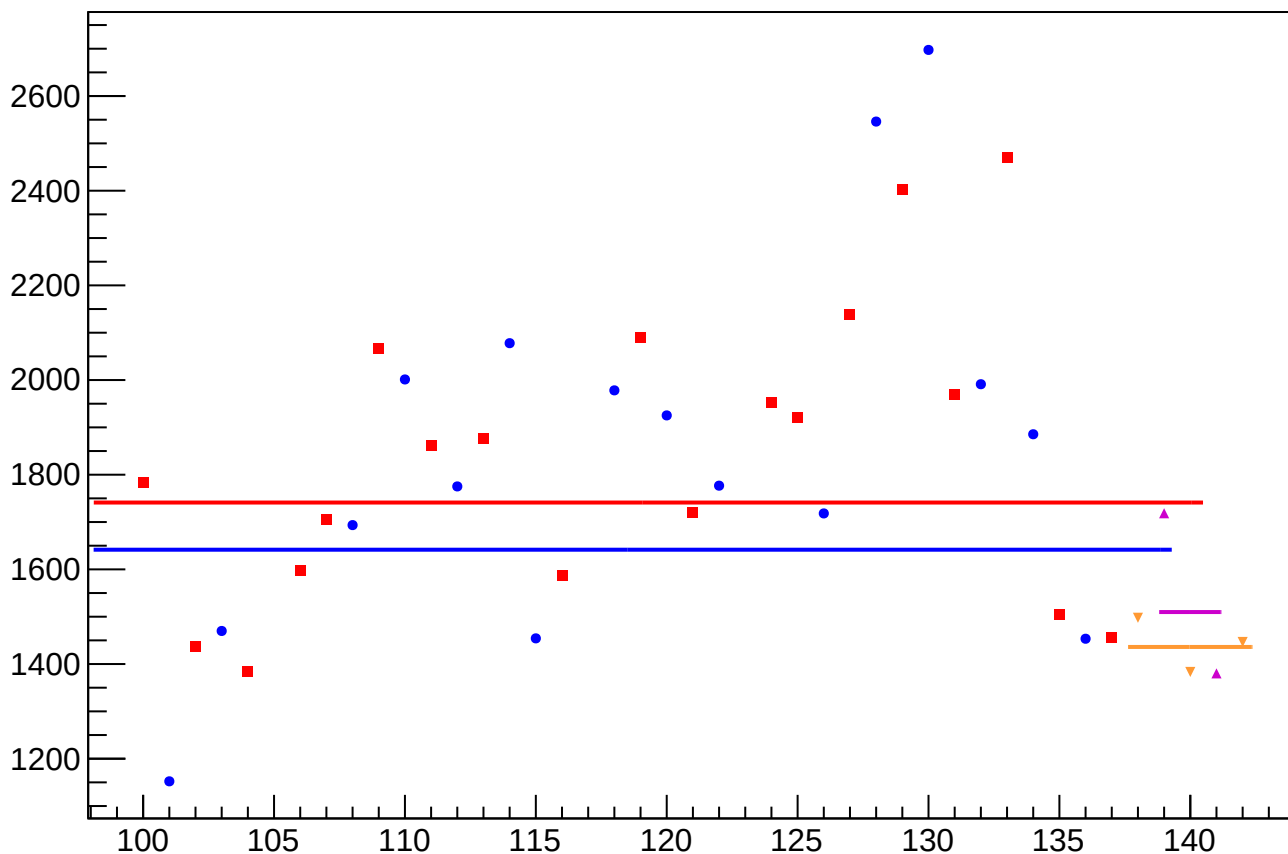
Right: -333.032+/-450.921 χ^2/NDF : 32.6/34

In: -160.848+/-552.005 χ^2/NDF : 17.6/17

Out: -99.980+/-544.894 χ^2/NDF : 18.6/21

All: -130.019+/-387.788 χ^2/NDF : 36.1/39

asym_usr_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1641.536+/-0.444 χ^2/NDF : 701299.1/15

Left Out: 1436.086+/-0.712 χ^2/NDF : 5059.4/2

Right Out: 1741.199+/-0.458 χ^2/NDF : 438324.1/18

Left In: 1509.828+/-0.818 χ^2/NDF : 40384.7/1

Left: 1467.883+/-0.537 χ^2/NDF : 50063.3/4

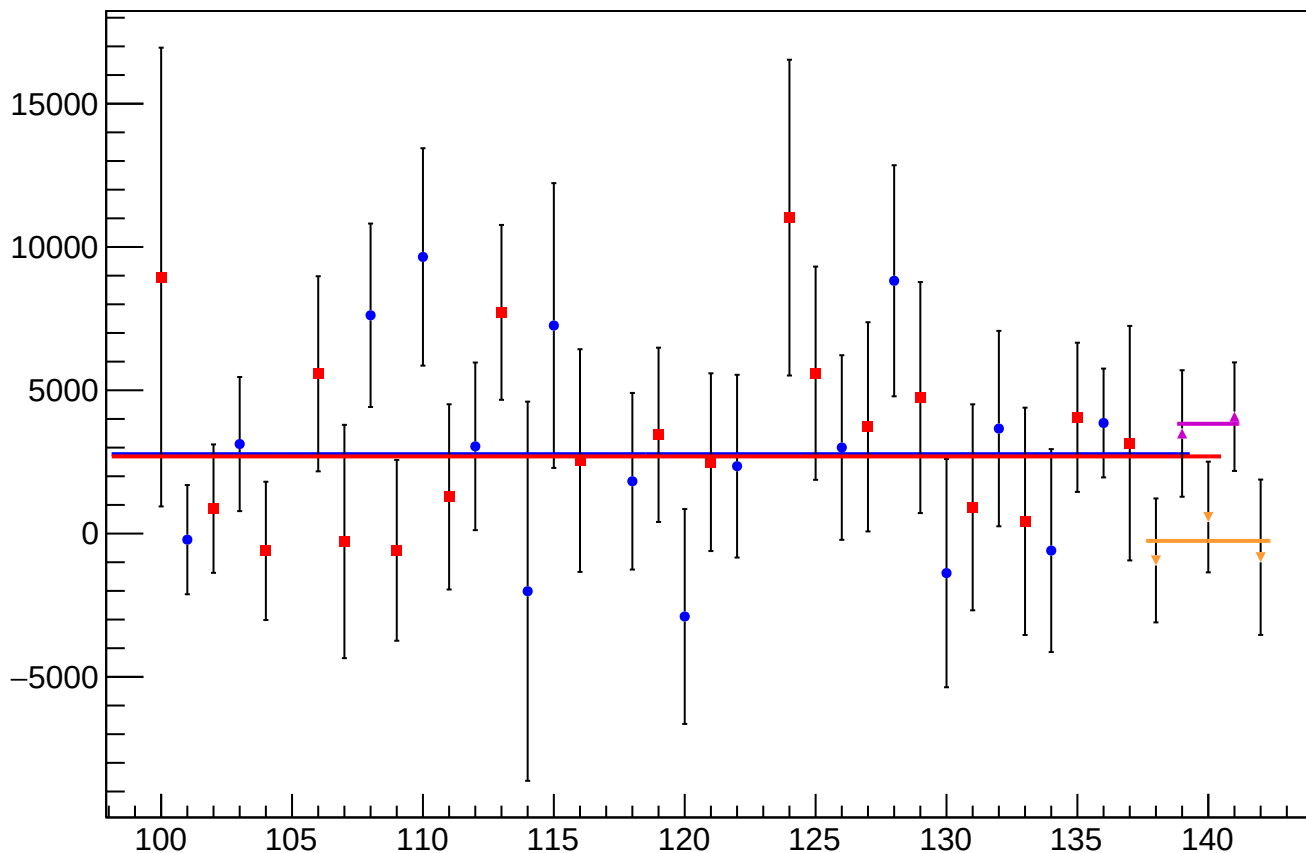
Right: 1689.826+/-0.319 χ^2/NDF : 1164025.0/34

In: 1611.569+/-0.390 χ^2/NDF : 761695.2/17

Out: 1651.965+/-0.385 χ^2/NDF : 573144.6/21

All: 1632.029+/-0.274 χ^2/NDF : 1340264.5/39

asym_usr_mean vs Slug, Sign Corrected



Right In: 2769.952 $\pm$ 757.109 χ^2 /NDF: 16.4/15

Left Out: -255.356 $\pm$ 1272.130 χ^2 /NDF: 0.3/2

Right Out: 2692.625 $\pm$ 765.754 χ^2 /NDF: 12.5/18

Left In: 3830.829 $\pm$ 1437.152 χ^2 /NDF: 0.0/1

Left: 1539.767 $\pm$ 952.557 χ^2 /NDF: 4.9/4

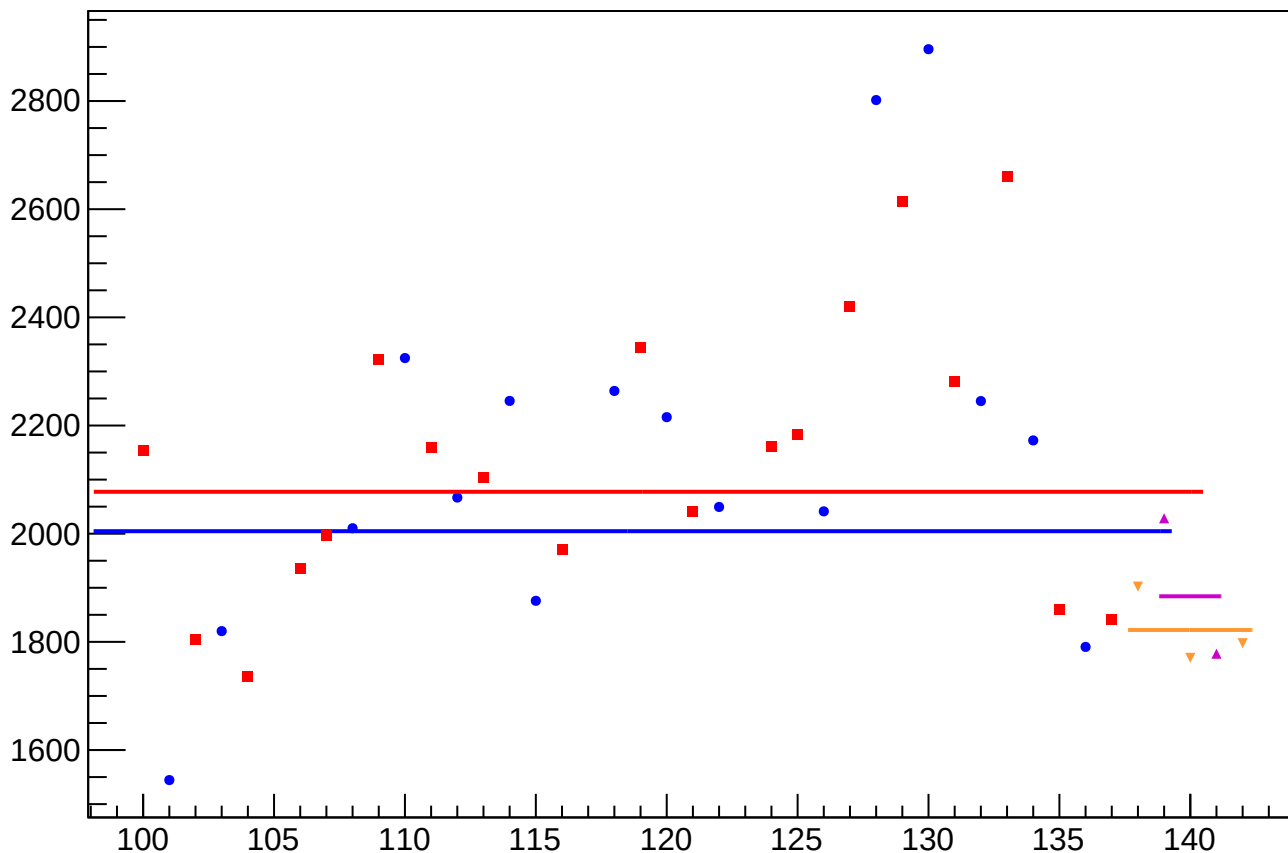
Right: 2731.727 $\pm$ 538.387 χ^2 /NDF: 29.0/34

In: 3000.417 $\pm$ 669.843 χ^2 /NDF: 16.9/17

Out: 1908.555 $\pm$ 656.064 χ^2 /NDF: 16.8/21

All: 2443.141 $\pm$ 468.703 χ^2 /NDF: 35.1/39

asym_usr_rms vs Slug, Sign Corrected



Right In: 2004.635+/-0.535 χ^2/NDF : 387567.3/15

Left Out: 1821.973+/-0.900 χ^2/NDF : 4334.4/2

Right Out: 2077.500+/-0.541 χ^2/NDF : 230482.0/18

Left In: 1884.264+/-1.016 χ^2/NDF : 14823.6/1

Left: 1849.338+/-0.674 χ^2/NDF : 21264.6/4

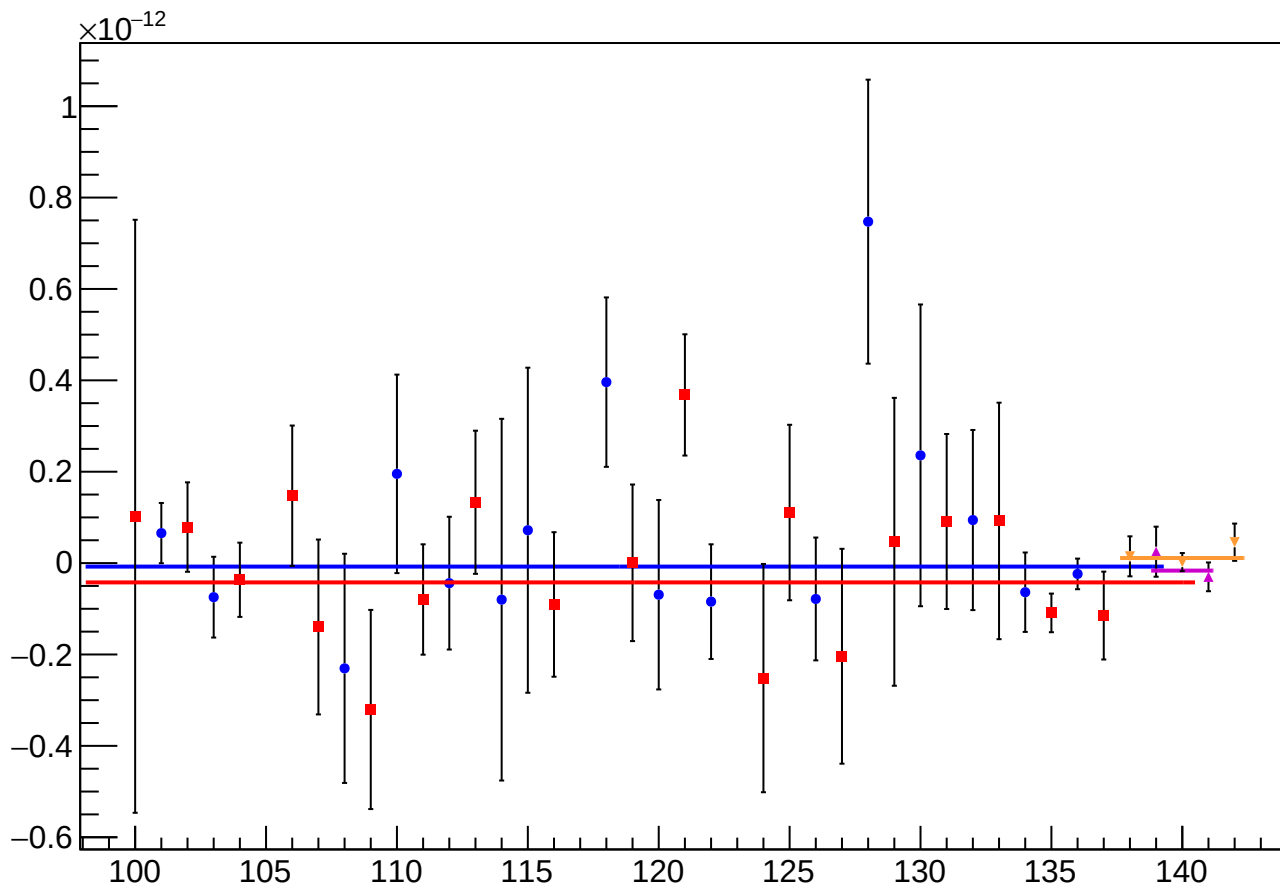
Right: 2040.654+/-0.381 χ^2/NDF : 627206.5/34

In: 1978.486+/-0.474 χ^2/NDF : 413373.4/17

Out: 2009.538+/-0.464 χ^2/NDF : 294048.3/21

All: 1994.335+/-0.331 χ^2/NDF : 709615.4/39

asym_usr_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 16.5/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.9/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 21.8/18

Left In: -0.000 ± 0.000 χ^2/NDF : 0.8/1

Left: 0.000 ± 0.000 χ^2/NDF : 2.4/4

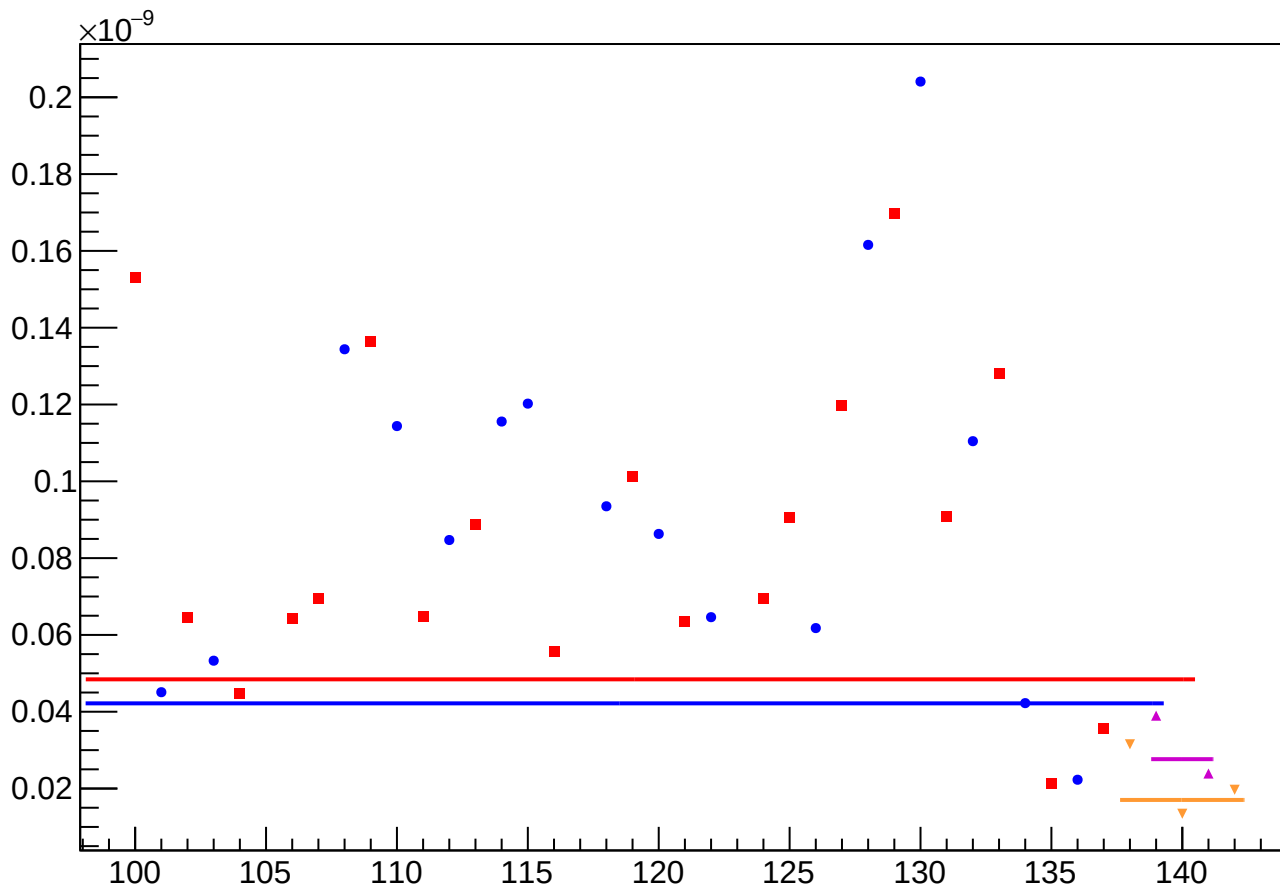
Right: -0.000 ± 0.000 χ^2/NDF : 39.1/34

In: -0.000 ± 0.000 χ^2/NDF : 17.3/17

Out: -0.000 ± 0.000 χ^2/NDF : 25.5/21

All: -0.000 ± 0.000 χ^2/NDF : 42.9/39

asym_usr_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2933545.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 293747.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2604483.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 113800.2/1

Left: 0.000+/-0.000 χ^2/NDF : 629333.2/4

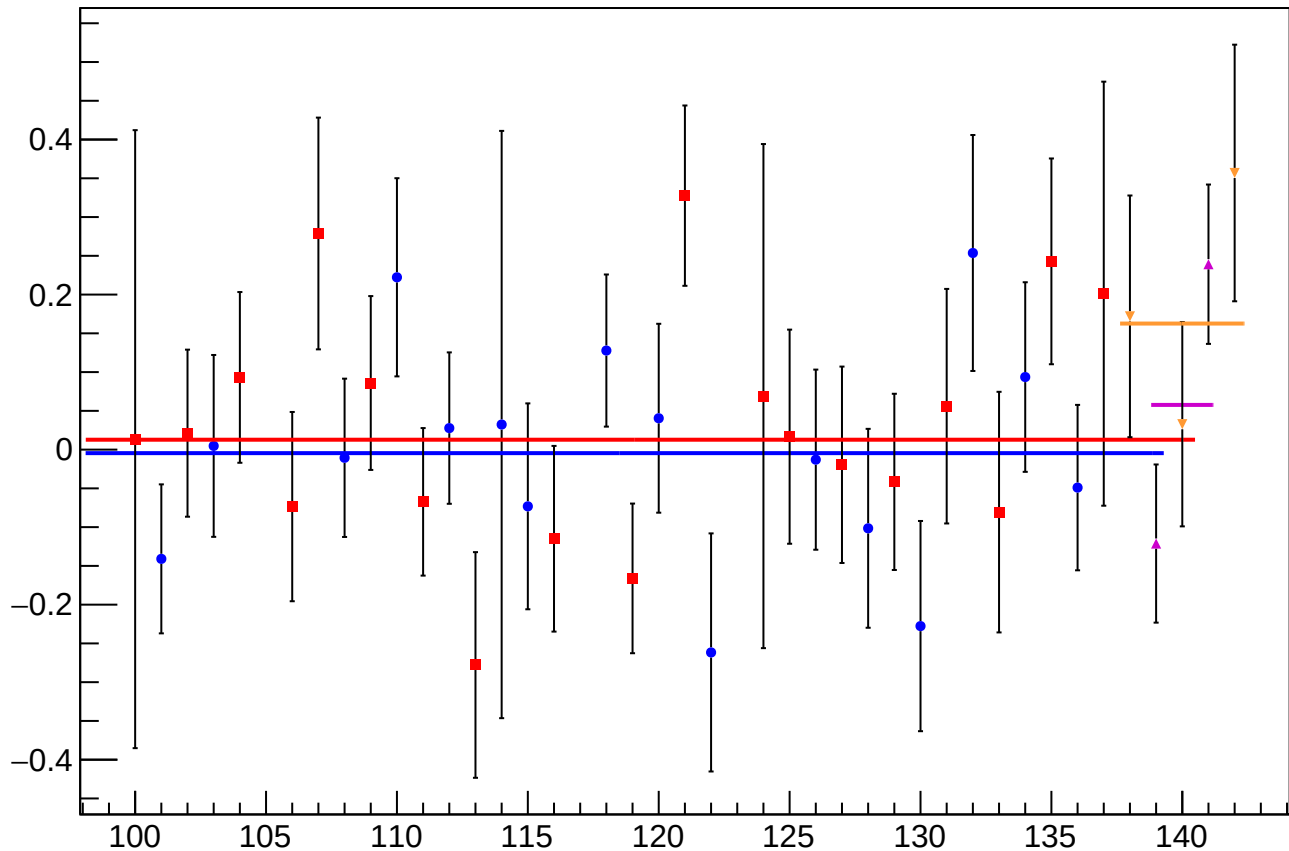
Right: 0.000+/-0.000 χ^2/NDF : 5597279.7/34

In: 0.000+/-0.000 χ^2/NDF : 3363853.4/17

Out: 0.000+/-0.000 χ^2/NDF : 4866709.2/21

All: 0.000+/-0.000 χ^2/NDF : 8624912.6/39

asym_usr_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.030 $\chi^2/\text{NDF}: 17.3/15$

Left Out: 0.163 ± 0.086 $\chi^2/\text{NDF}: 2.4/2$

Right Out: 0.013 ± 0.030 $\chi^2/\text{NDF}: 25.5/18$

Left In: 0.058 ± 0.072 $\chi^2/\text{NDF}: 6.2/1$

Left: 0.101 ± 0.055 $\chi^2/\text{NDF}: 9.4/4$

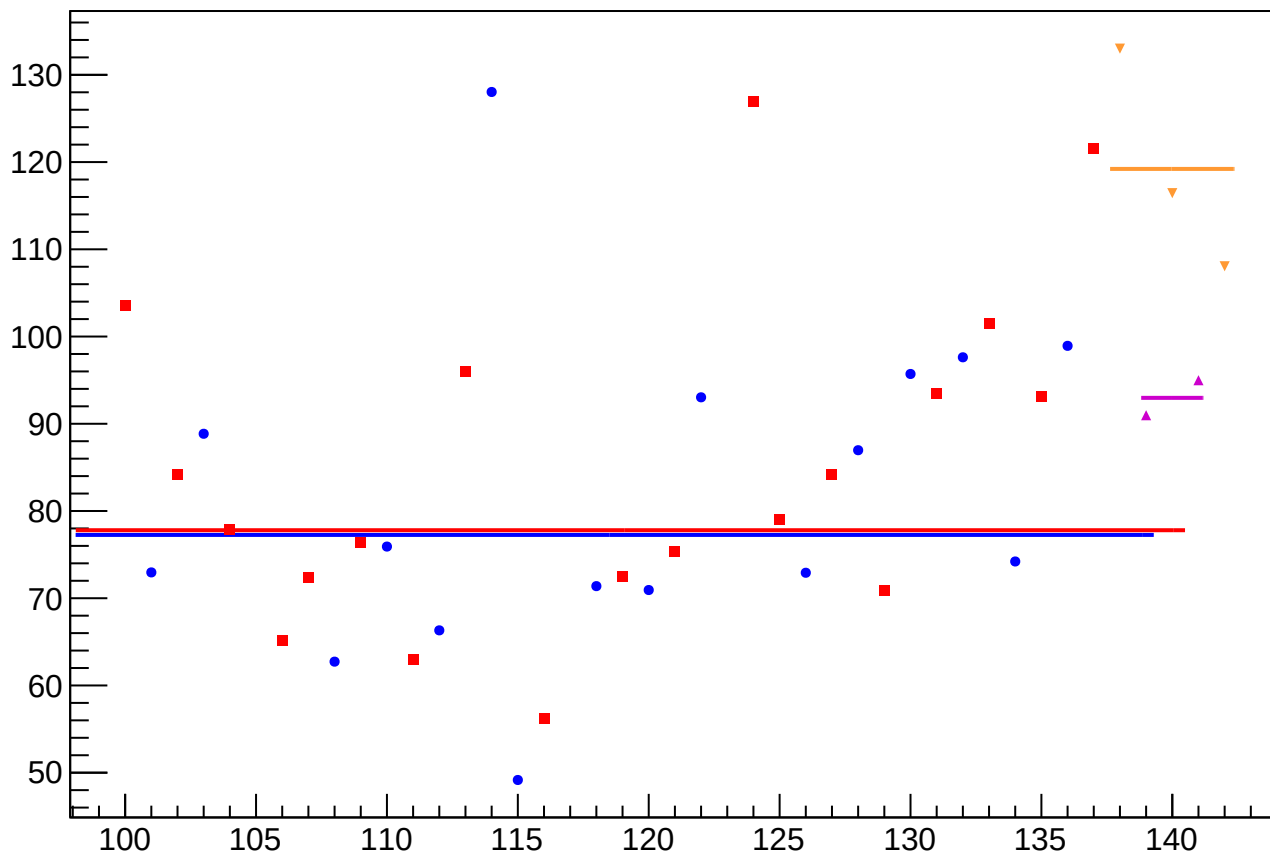
Right: 0.004 ± 0.021 $\chi^2/\text{NDF}: 42.9/34$

In: 0.005 ± 0.028 $\chi^2/\text{NDF}: 24.1/17$

Out: 0.029 ± 0.028 $\chi^2/\text{NDF}: 30.5/21$

All: 0.017 ± 0.020 $\chi^2/\text{NDF}: 55.0/39$

asym_usr_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 77.259+/-0.021 χ^2 /NDF: 419290.2/15

Left Out: 119.216+/-0.061 χ^2 /NDF:25629.9/2

Right Out: 77.796+/-0.021 χ^2 /NDF: 396477.1/18

Left In: 92.971+/-0.051 χ^2 /NDF:1535.6/1

Left: 103.857+/-0.039 χ^2 /NDF: 136166.6/4

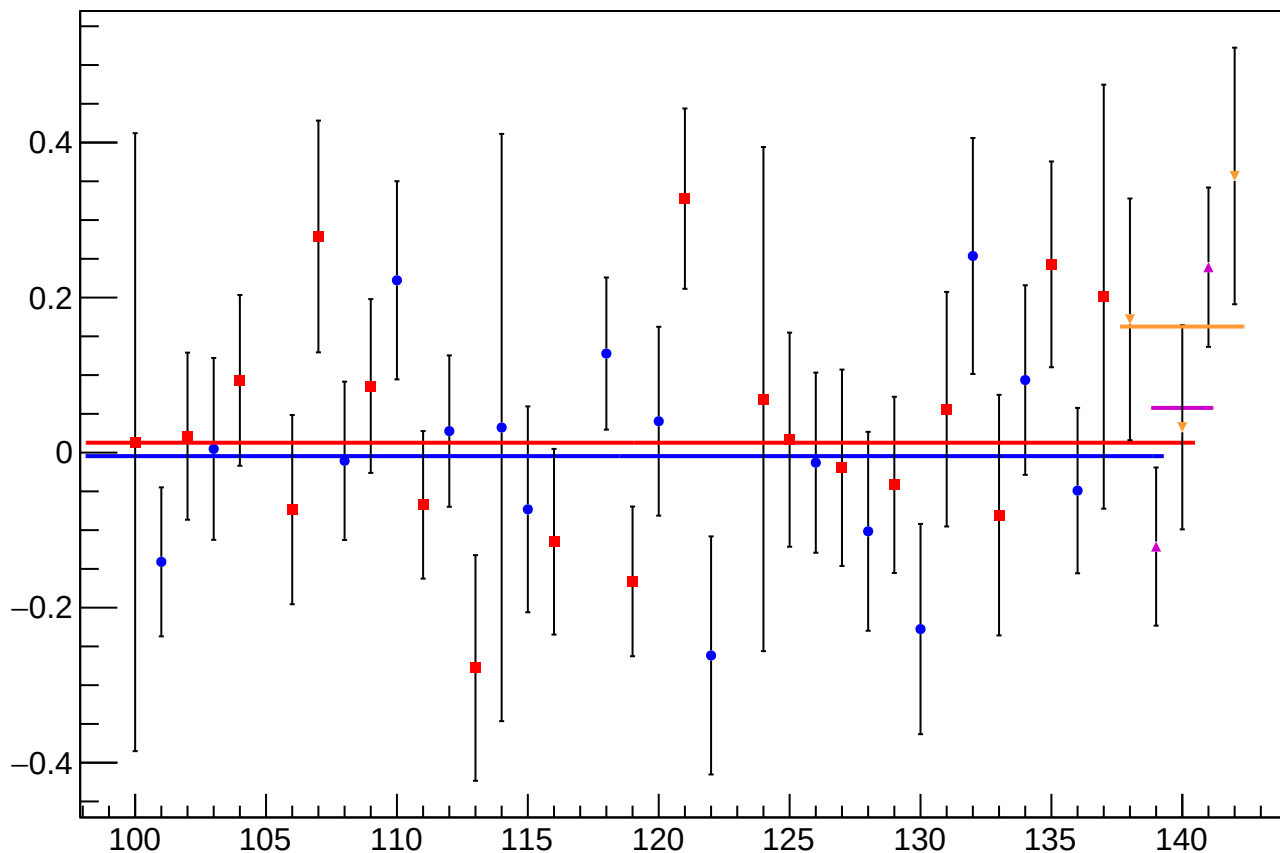
Right: 77.530+/-0.015 χ^2 /NDF: 816090.7/34

In: 79.568+/-0.020 χ^2 /NDF:501168.4/17

Out: 82.216+/-0.020 χ^2 /NDF:836519.5/21

All: 80.876+/-0.014 χ^2 /NDF: 1346683.8/39

asym_usr_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.030 $\chi^2/\text{NDF}: 17.3/15$

Left Out: 0.163 ± 0.086 $\chi^2/\text{NDF}: 2.4/2$

Right Out: 0.013 ± 0.030 $\chi^2/\text{NDF}: 25.5/18$

Left In: 0.058 ± 0.072 $\chi^2/\text{NDF}: 6.2/1$

Left: 0.101 ± 0.055 $\chi^2/\text{NDF}: 9.4/4$

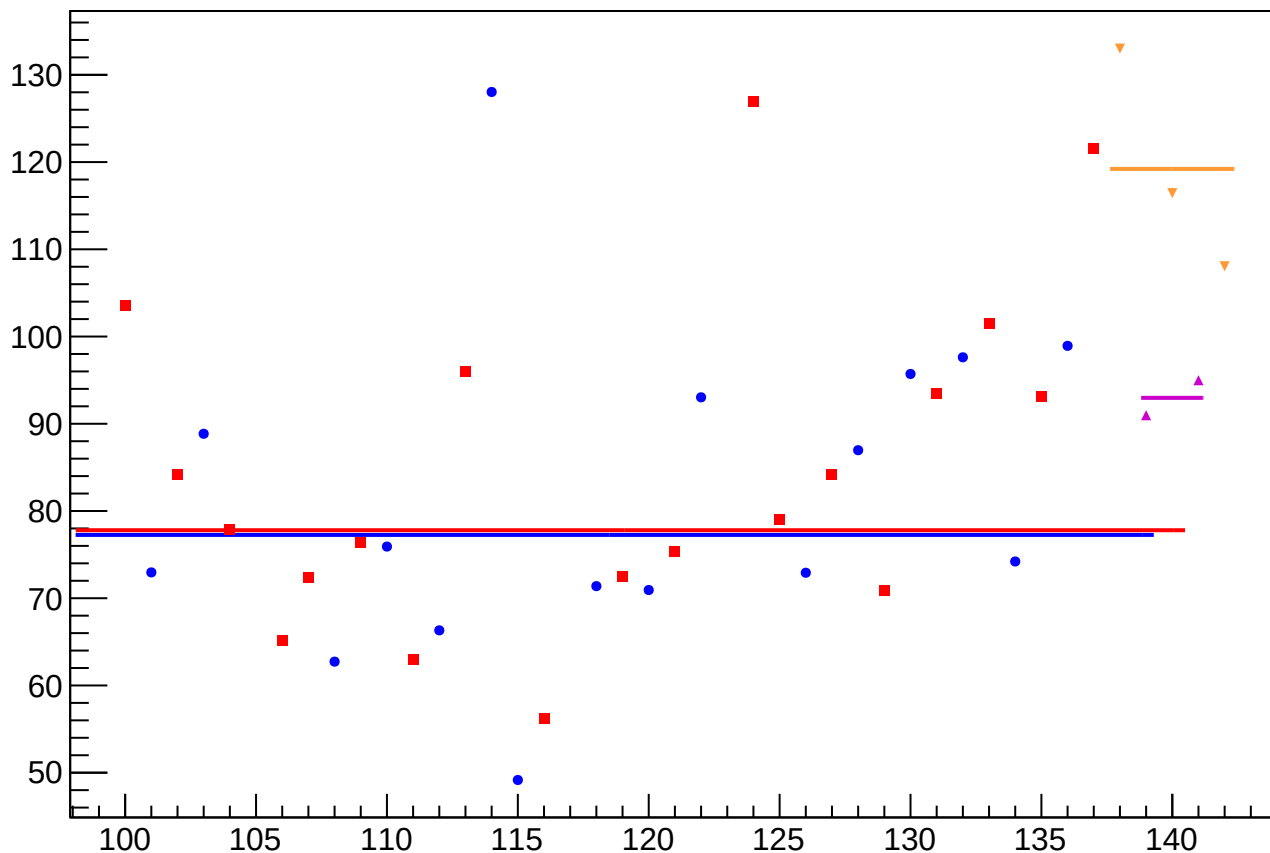
Right: 0.004 ± 0.021 $\chi^2/\text{NDF}: 42.9/34$

In: 0.005 ± 0.028 $\chi^2/\text{NDF}: 24.1/17$

Out: 0.029 ± 0.028 $\chi^2/\text{NDF}: 30.5/21$

All: 0.017 ± 0.020 $\chi^2/\text{NDF}: 55.0/39$

asym_usr_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 77.259 $\pm$ 0.021 χ^2 /NDF: 419290.2/15

Left Out: 119.216 $\pm$ 0.061 χ^2 /NDF:25629.9/2

Right Out: 77.796 $\pm$ 0.021 χ^2 /NDF: 396477.1/18

Left In: 92.971 $\pm$ 0.051 χ^2 /NDF:1535.6/1

Left: 103.857 $\pm$ 0.039 χ^2 /NDF: 136166.6/4

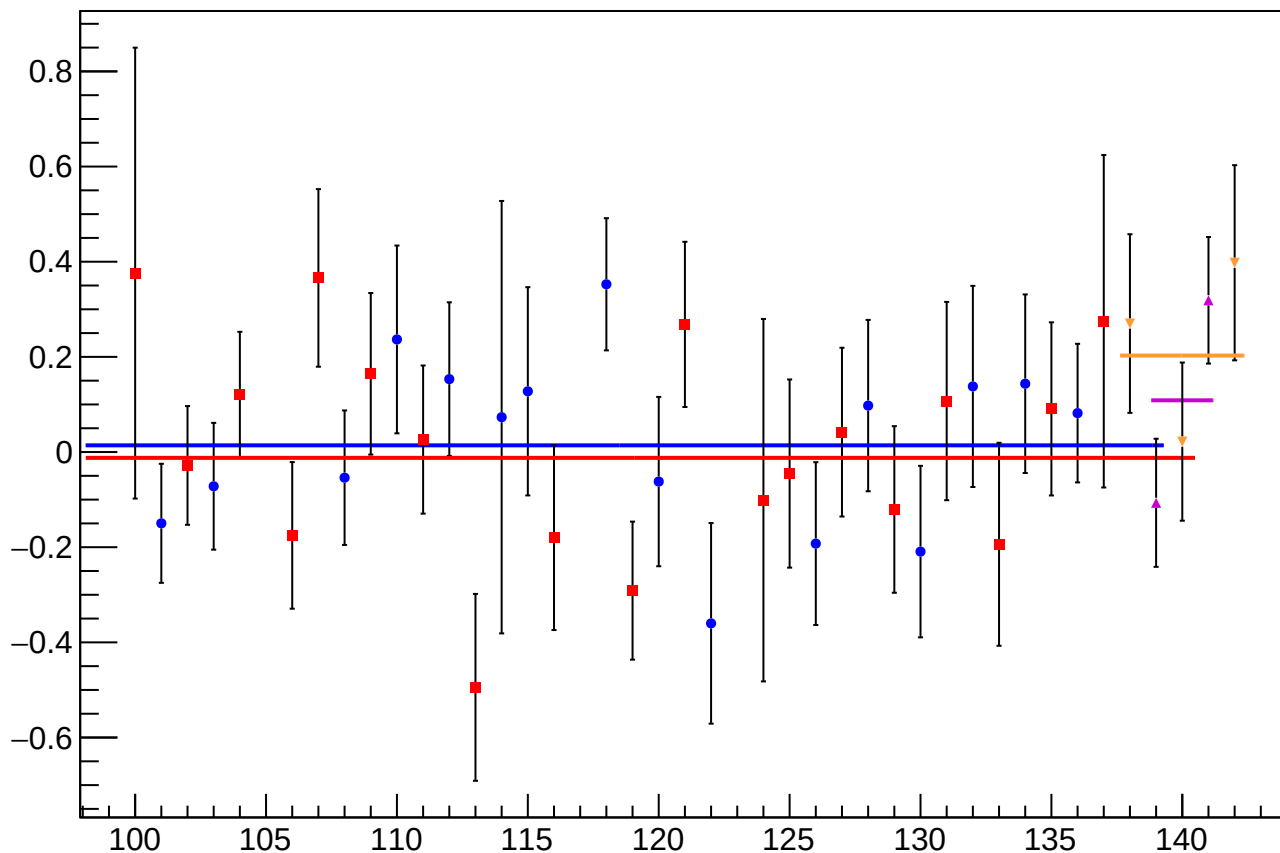
Right: 77.530 $\pm$ 0.015 χ^2 /NDF: 816090.7/34

In: 79.568 $\pm$ 0.020 χ^2 /NDF:501168.4/17

Out: 82.216 $\pm$ 0.020 χ^2 /NDF:836519.5/21

All: 80.876 $\pm$ 0.014 χ^2 /NDF: 1346683.8/39

asym_usr_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.042 χ^2 /NDF: 18.2/15

Left Out: 0.203 $\pm$ 0.106 χ^2 /NDF:2.2/2

Right Out: -0.012 $\pm$ 0.041 χ^2 /NDF: 23.8/18

Left In: 0.109 $\pm$ 0.095 χ^2 /NDF:5.1/1

Left: 0.150 $\pm$ 0.071 χ^2 /NDF: 7.7/4

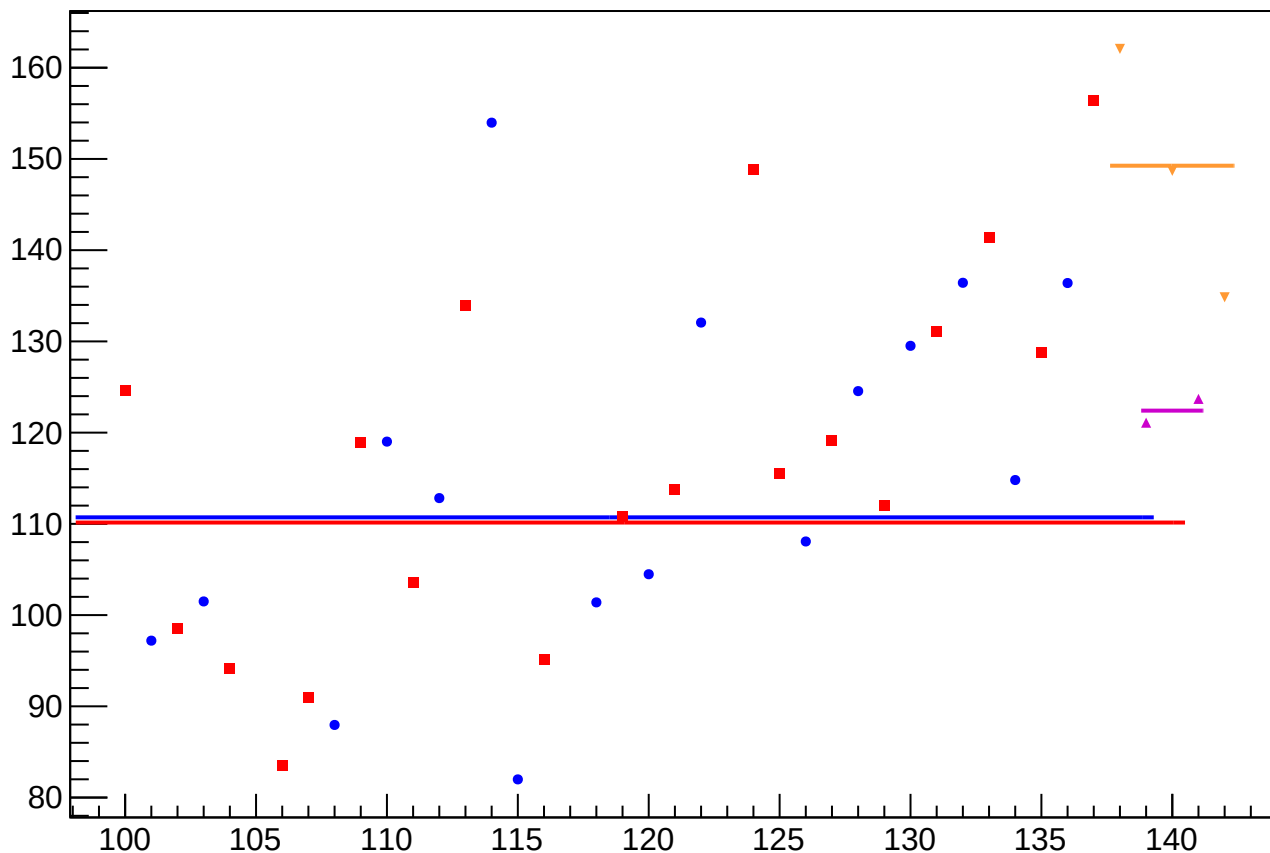
Right: 0.001 $\pm$ 0.030 χ^2 /NDF: 42.1/34

In: 0.030 $\pm$ 0.039 χ^2 /NDF:24.1/17

Out: 0.016 $\pm$ 0.039 χ^2 /NDF:29.5/21

All: 0.023 $\pm$ 0.027 χ^2 /NDF: 53.7/39

asym_usr_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 110.714 $\pm$ 0.030 χ^2 /NDF: 299972.8/15

Left Out: 149.259 $\pm$ 0.075 χ^2 /NDF:19223.5/2

Right Out: 110.145 $\pm$ 0.029 χ^2 /NDF: 326726.5/18

Left In: 122.412 $\pm$ 0.067 χ^2 /NDF:380.0/1

Left: 134.270 $\pm$ 0.050 χ^2 /NDF: 90709.9/4

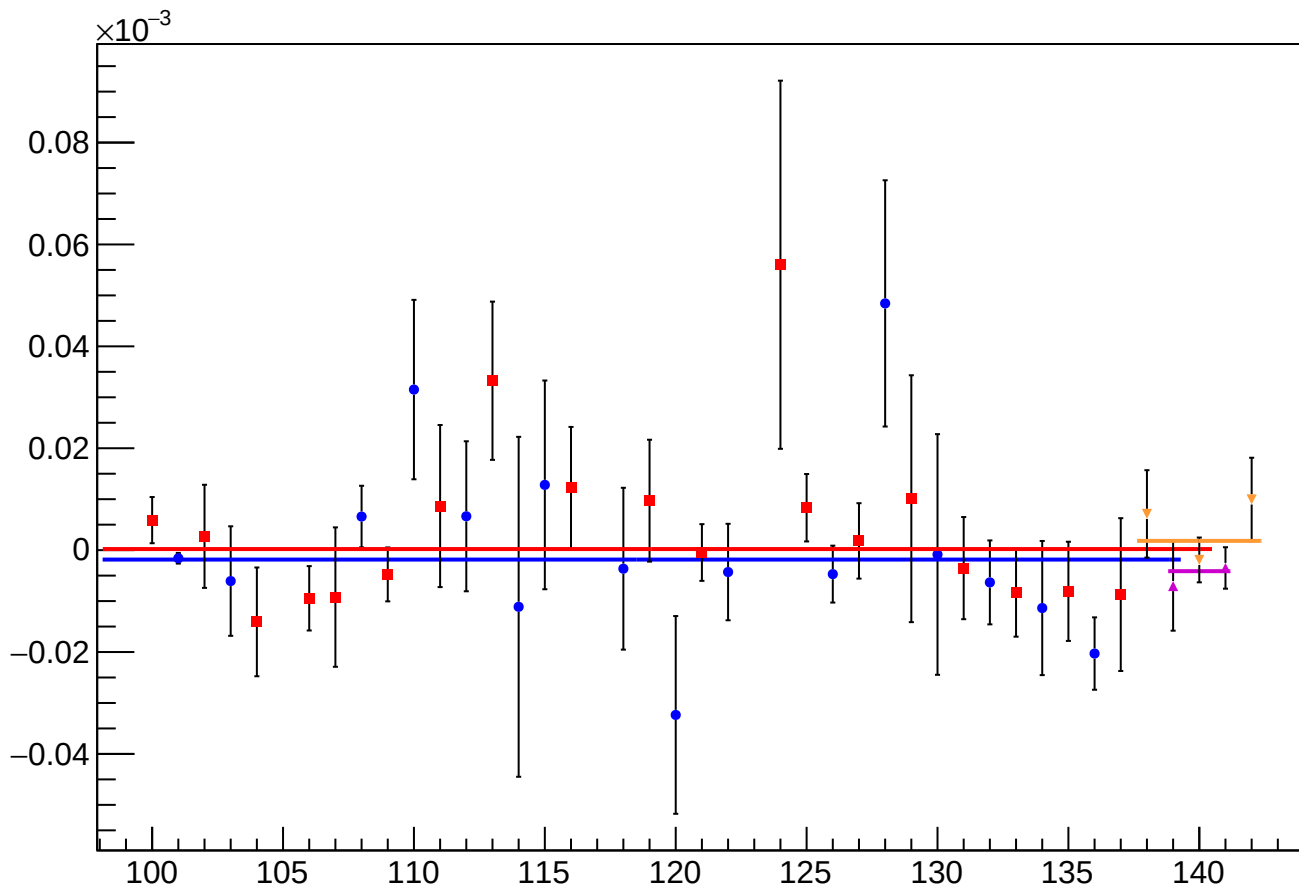
Right: 110.423 $\pm$ 0.021 χ^2 /NDF: 626885.1/34

In: 112.660 $\pm$ 0.027 χ^2 /NDF:325832.3/17

Out: 115.270 $\pm$ 0.027 χ^2 /NDF:580876.6/21

All: 113.968 $\pm$ 0.019 χ^2 /NDF: 911291.2/39

asym_usr_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 21.4/15

Left Out: 0.000+/-0.000 χ^2 /NDF:2.1/2

Right Out: 0.000+/-0.000 χ^2 /NDF: 19.9/18

Left In: -0.000+/-0.000 χ^2 /NDF:0.1/1

Left: -0.000+/-0.000 χ^2 /NDF: 3.6/4

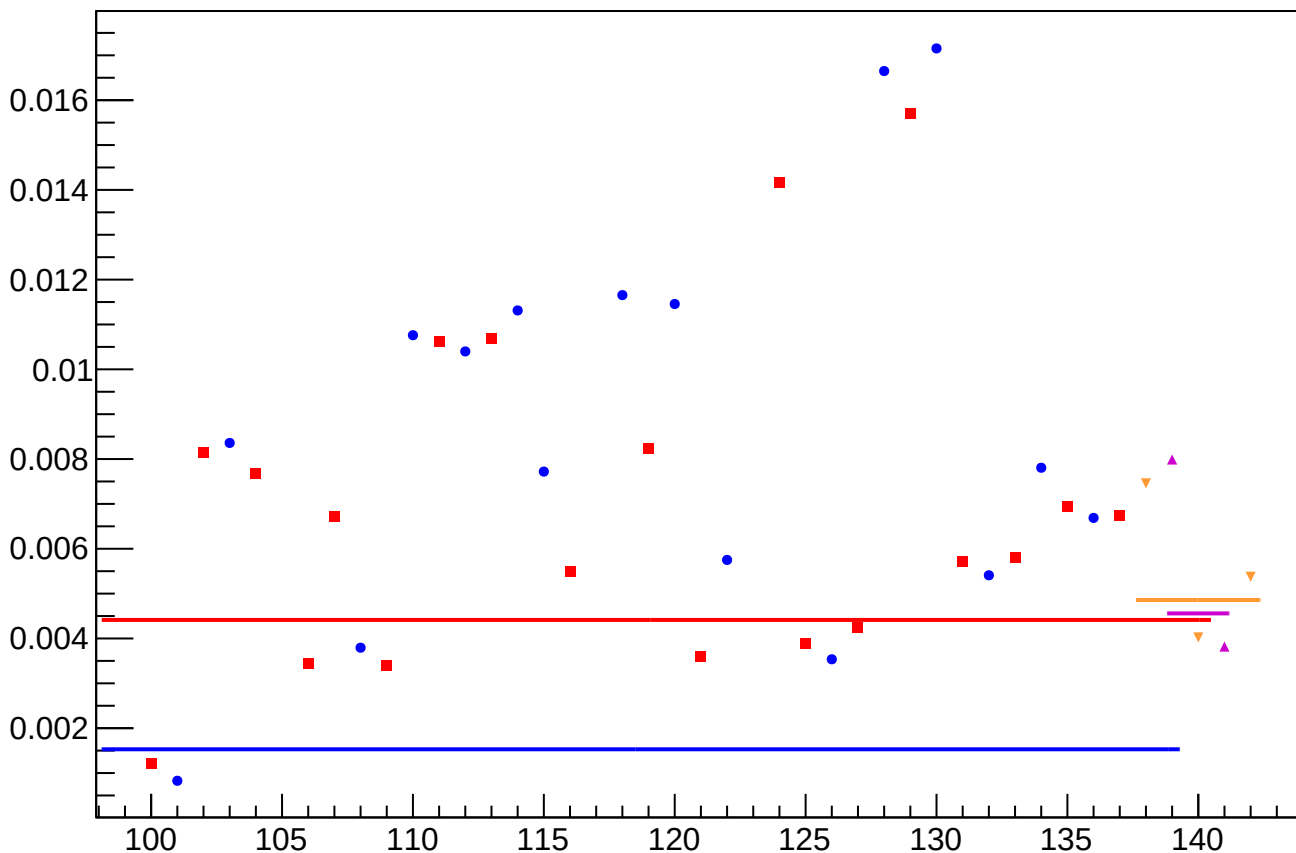
Right: -0.000+/-0.000 χ^2 /NDF: 42.2/34

In: -0.000+/-0.000 χ^2 /NDF:21.9/17

Out: 0.000+/-0.000 χ^2 /NDF:22.1/21

All: -0.000+/-0.000 χ^2 /NDF: 45.8/39

asym_usr_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000

χ^2/NDF : 9222940.9/15

Left Out: 0.005+/-0.000

χ^2/NDF : 263726.7/2

Right Out: 0.004+/-0.000

χ^2/NDF : 3388069.5/18

Left In: 0.005+/-0.000

χ^2/NDF : 372838.7/1

Left: 0.005+/-0.000

χ^2/NDF : 643377.1/4

Right: 0.002+/-0.000

χ^2/NDF : 16183584.5/34

In: 0.002+/-0.000

χ^2/NDF : 10855984.6/17

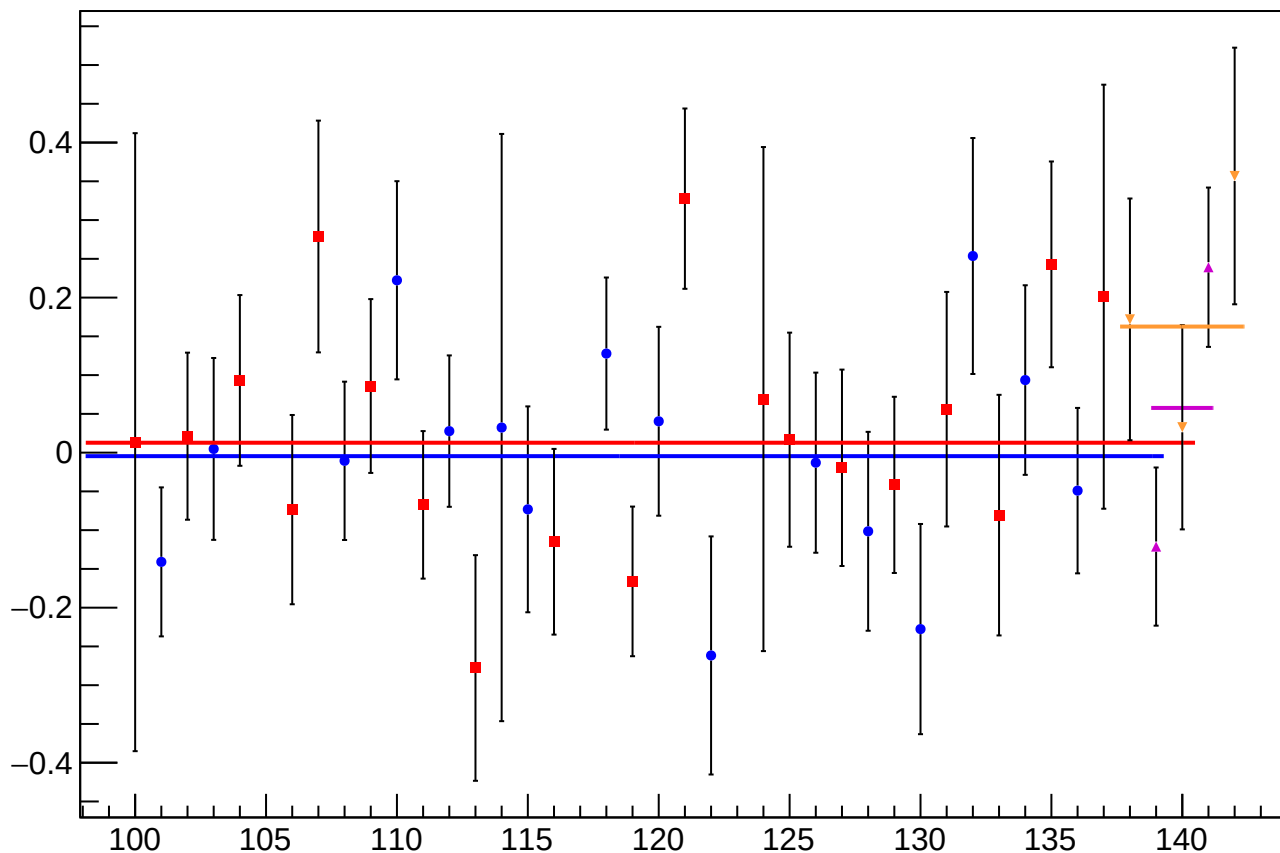
Out: 0.005+/-0.000

χ^2/NDF : 3676121.6/21

All: 0.002+/-0.000

χ^2/NDF : 18687136.3/39

asym_usr_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.030 $\chi^2/\text{NDF}: 17.3/15$

Left Out: 0.163 ± 0.086 $\chi^2/\text{NDF}: 2.4/2$

Right Out: 0.013 ± 0.030 $\chi^2/\text{NDF}: 25.5/18$

Left In: 0.058 ± 0.072 $\chi^2/\text{NDF}: 6.2/1$

Left: 0.101 ± 0.055 $\chi^2/\text{NDF}: 9.4/4$

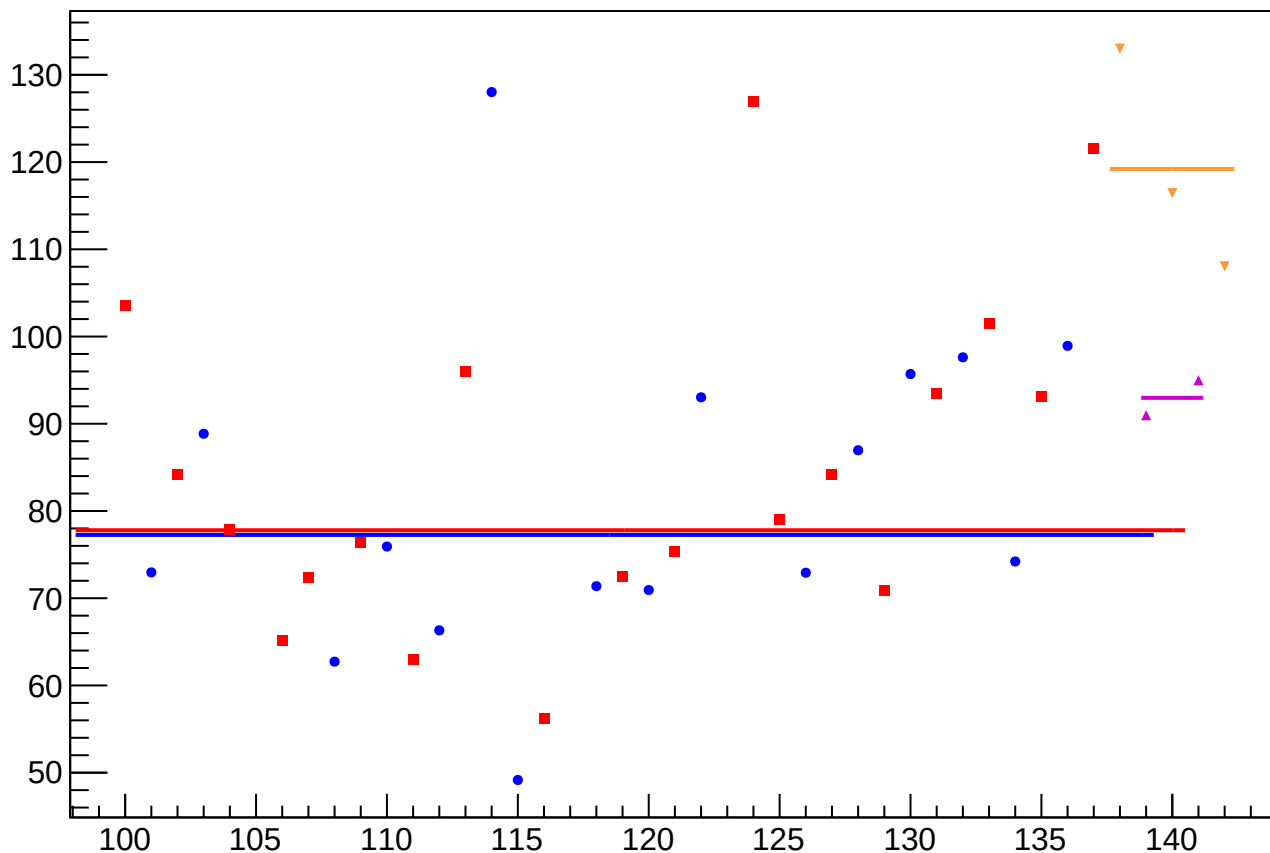
Right: 0.004 ± 0.021 $\chi^2/\text{NDF}: 42.9/34$

In: 0.005 ± 0.028 $\chi^2/\text{NDF}: 24.1/17$

Out: 0.029 ± 0.028 $\chi^2/\text{NDF}: 30.5/21$

All: 0.017 ± 0.020 $\chi^2/\text{NDF}: 55.0/39$

asym_usr_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 77.257 $\pm$ 0.021 χ^2 /NDF: 419276.8/15

Left Out: 119.216 $\pm$ 0.061 χ^2 /NDF: 25628.7/2

Right Out: 77.795 $\pm$ 0.021 χ^2 /NDF: 396473.9/18

Left In: 92.971 $\pm$ 0.051 χ^2 /NDF: 1534.1/1

Left: 103.858 $\pm$ 0.039 χ^2 /NDF: 136161.9/4

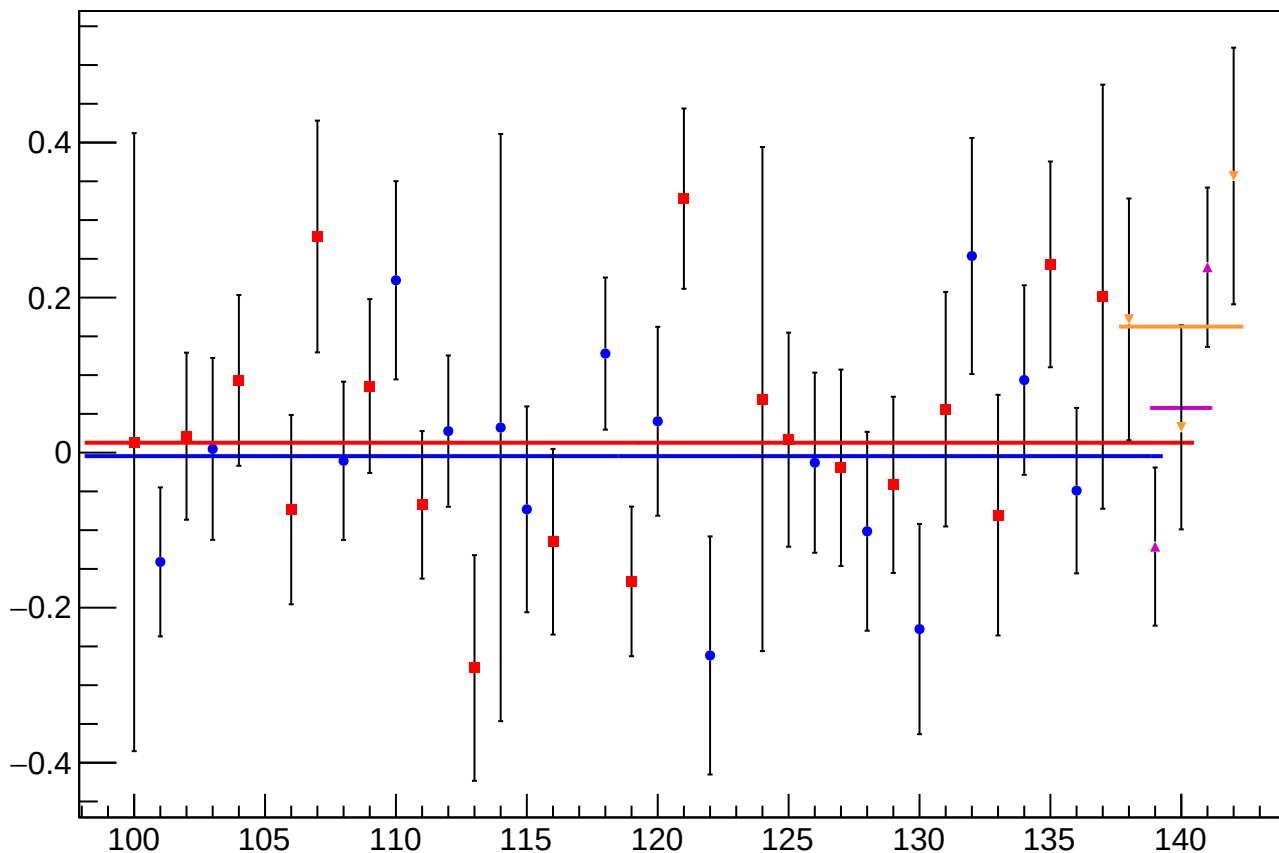
Right: 77.529 $\pm$ 0.015 χ^2 /NDF: 816074.1/34

In: 79.566 $\pm$ 0.020 χ^2 /NDF: 501176.0/17

Out: 82.215 $\pm$ 0.020 χ^2 /NDF: 836557.0/21

All: 80.874 $\pm$ 0.014 χ^2 /NDF: 1346727.8/39

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.030 $\chi^2/\text{NDF}: 17.3/15$

Left Out: 0.163 ± 0.086 $\chi^2/\text{NDF}: 2.4/2$

Right Out: 0.013 ± 0.030 $\chi^2/\text{NDF}: 25.5/18$

Left In: 0.058 ± 0.072 $\chi^2/\text{NDF}: 6.2/1$

Left: 0.101 ± 0.055 $\chi^2/\text{NDF}: 9.4/4$

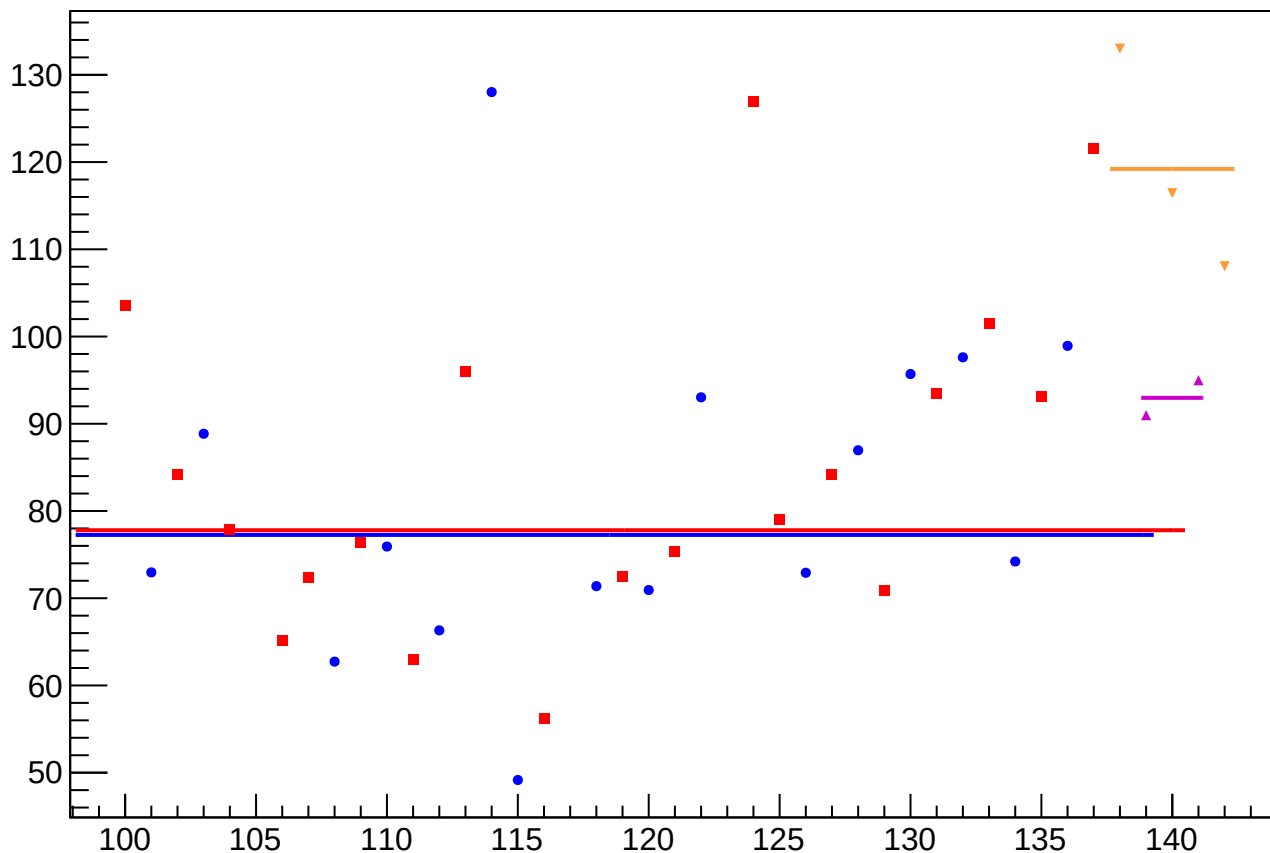
Right: 0.004 ± 0.021 $\chi^2/\text{NDF}: 42.9/34$

In: 0.005 ± 0.028 $\chi^2/\text{NDF}: 24.1/17$

Out: 0.029 ± 0.028 $\chi^2/\text{NDF}: 30.5/21$

All: 0.017 ± 0.020 $\chi^2/\text{NDF}: 55.0/39$

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 77.257 $\pm$ 0.021 χ^2 /NDF: 419276.8/15

Left Out: 119.216 $\pm$ 0.061 χ^2 /NDF: 25628.7/2

Right Out: 77.795 $\pm$ 0.021 χ^2 /NDF: 396473.9/18

Left In: 92.971 $\pm$ 0.051 χ^2 /NDF: 1534.1/1

Left: 103.858 $\pm$ 0.039 χ^2 /NDF: 136161.9/4

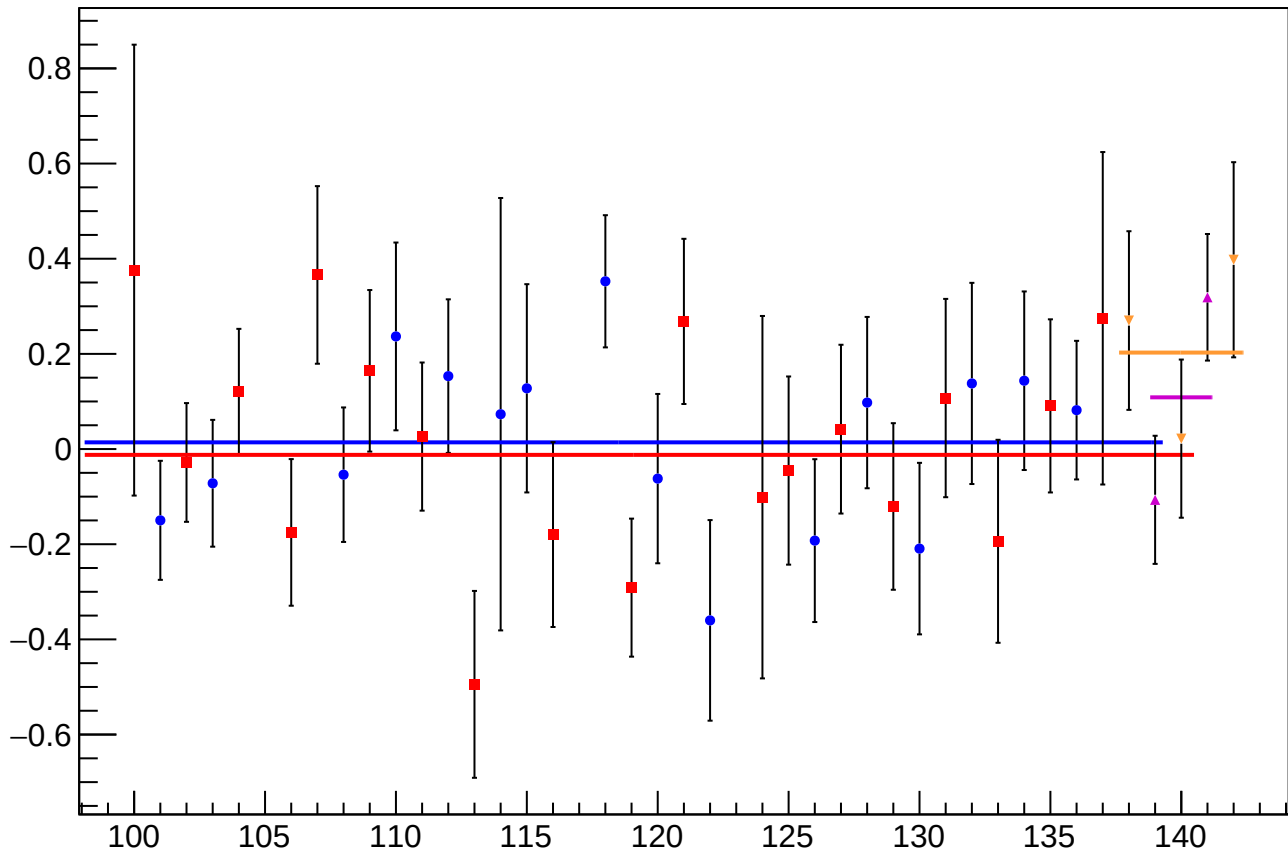
Right: 77.529 $\pm$ 0.015 χ^2 /NDF: 816074.1/34

In: 79.566 $\pm$ 0.020 χ^2 /NDF: 501176.0/17

Out: 82.215 $\pm$ 0.020 χ^2 /NDF: 836557.0/21

All: 80.874 $\pm$ 0.014 χ^2 /NDF: 1346727.8/39

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.042 χ^2 /NDF: 18.2/15

Left Out: 0.203 $\pm$ 0.106 χ^2 /NDF:2.2/2

Right Out: -0.012 $\pm$ 0.041 χ^2 /NDF: 23.8/18

Left In: 0.109 $\pm$ 0.095 χ^2 /NDF:5.1/1

Left: 0.150 $\pm$ 0.071 χ^2 /NDF: 7.7/4

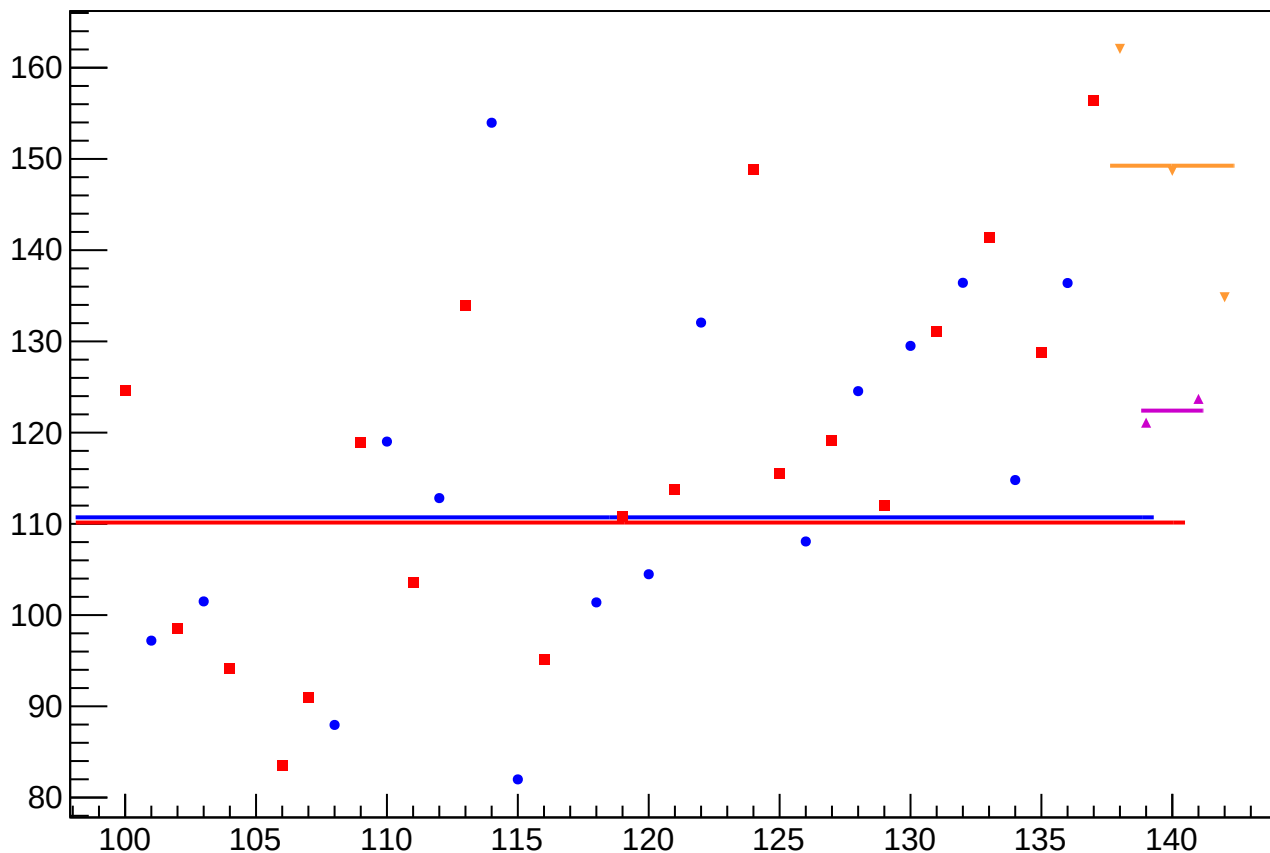
Right: 0.001 $\pm$ 0.030 χ^2 /NDF: 42.1/34

In: 0.030 $\pm$ 0.039 χ^2 /NDF:24.1/17

Out: 0.016 $\pm$ 0.039 χ^2 /NDF:29.5/21

All: 0.023 $\pm$ 0.027 χ^2 /NDF: 53.7/39

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 110.714+/-0.030 χ^2/NDF : 299948.2/15

Left Out: 149.259+/-0.075 χ^2/NDF :19221.7/2

Right Out: 110.144+/-0.029 χ^2/NDF : 326696.7/18

Left In: 122.413+/-0.067 χ^2/NDF :379.5/1

Left: 134.271+/-0.050 χ^2/NDF : 90706.2/4

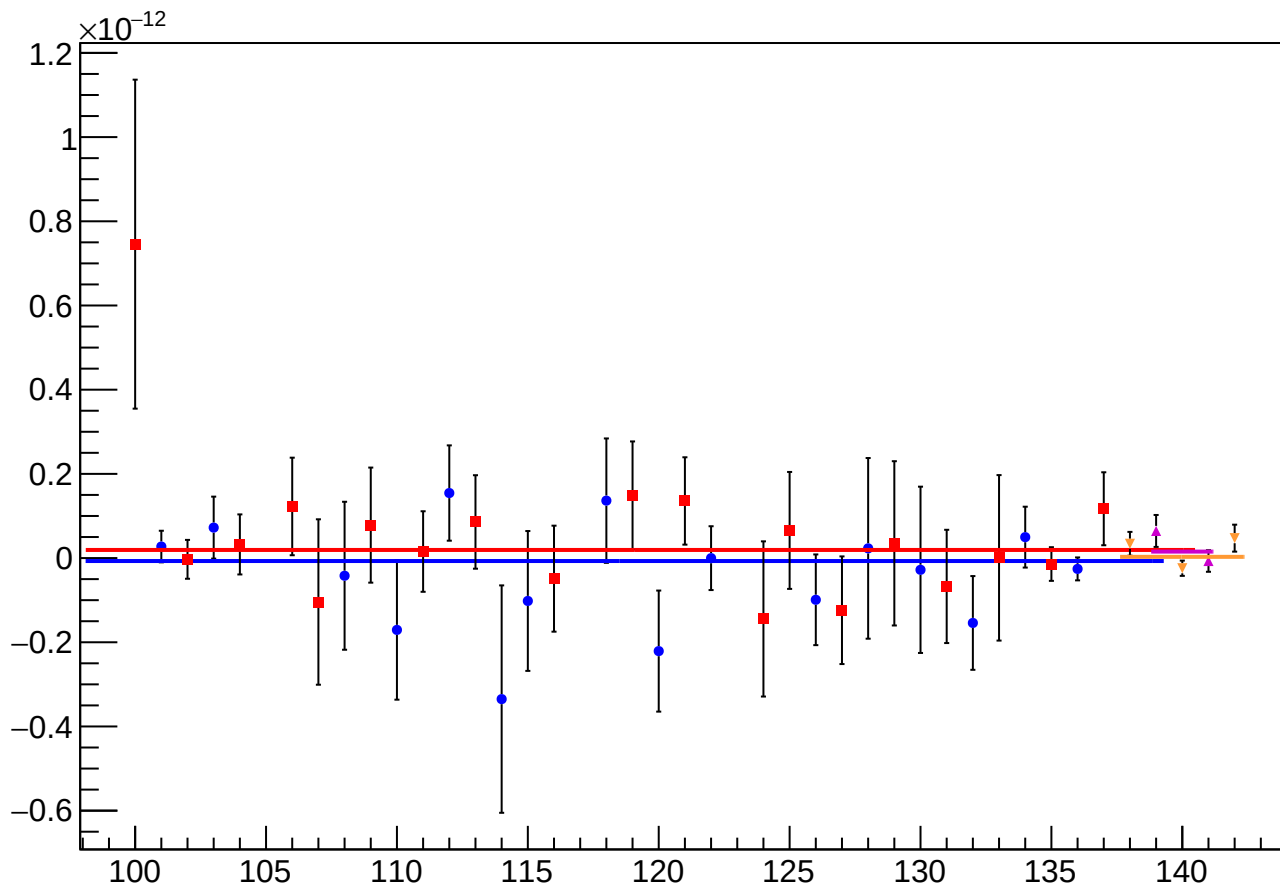
Right: 110.422+/-0.021 χ^2/NDF : 626830.6/34

In: 112.660+/-0.027 χ^2/NDF :325813.6/17

Out: 115.269+/-0.027 χ^2/NDF :580858.7/21

All: 113.967+/-0.019 χ^2/NDF : 911254.5/39

asym_usr_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 13.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 5.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 12.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 2.4/1

Left: 0.000+/-0.000 χ^2/NDF : 8.0/4

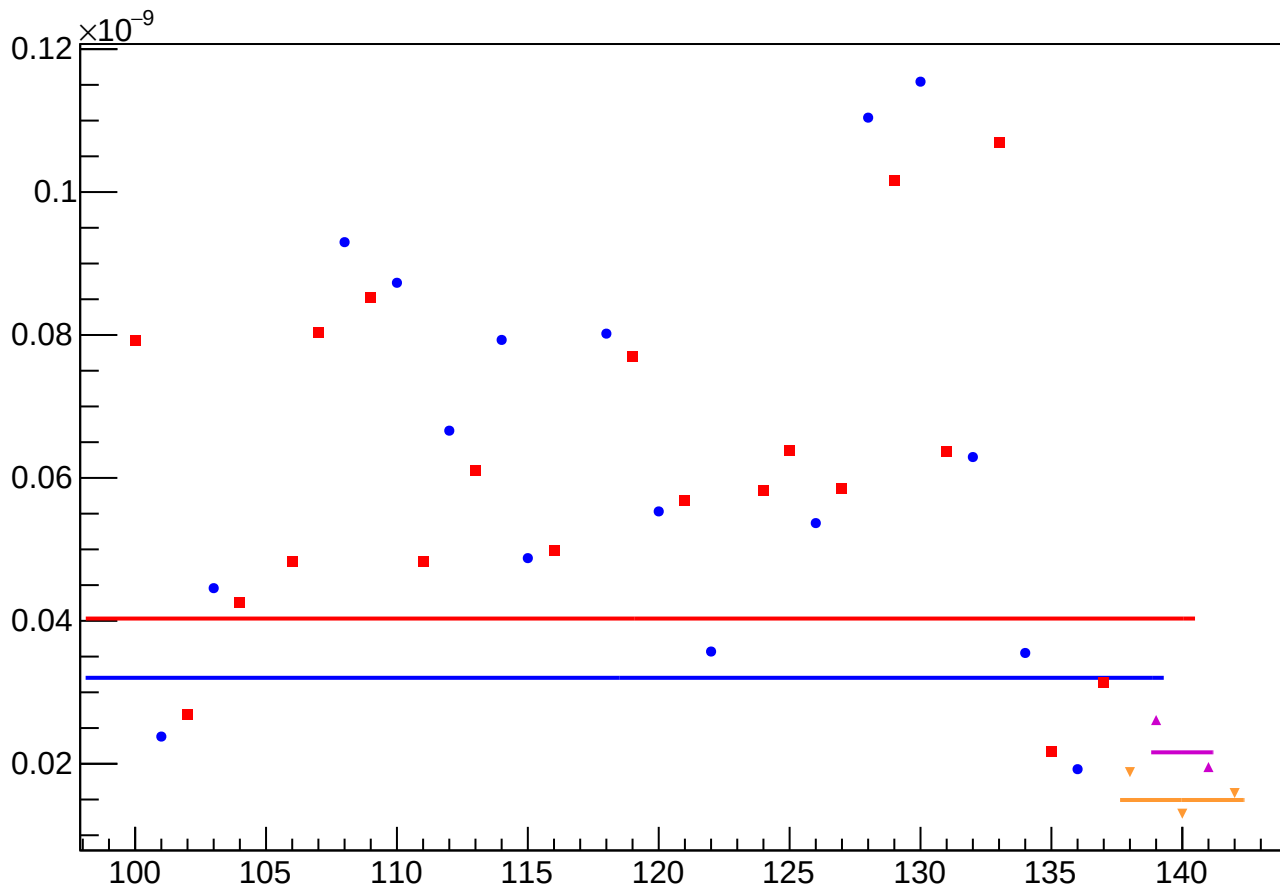
Right: 0.000+/-0.000 χ^2/NDF : 27.1/34

In: 0.000+/-0.000 χ^2/NDF : 16.7/17

Out: 0.000+/-0.000 χ^2/NDF : 18.4/21

All: 0.000+/-0.000 χ^2/NDF : 35.2/39

asym_usr_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 2459312.1/15

Left Out: 0.000+/-0.000

χ^2/NDF : 62365.1/2

Right Out: 0.000+/-0.000

χ^2/NDF : 1866332.6/18

Left In: 0.000+/-0.000

χ^2/NDF : 41282.1/1

Left: 0.000+/-0.000

χ^2/NDF : 242549.5/4

Right: 0.000+/-0.000

χ^2/NDF : 4504924.2/34

In: 0.000+/-0.000

χ^2/NDF : 2782449.9/17

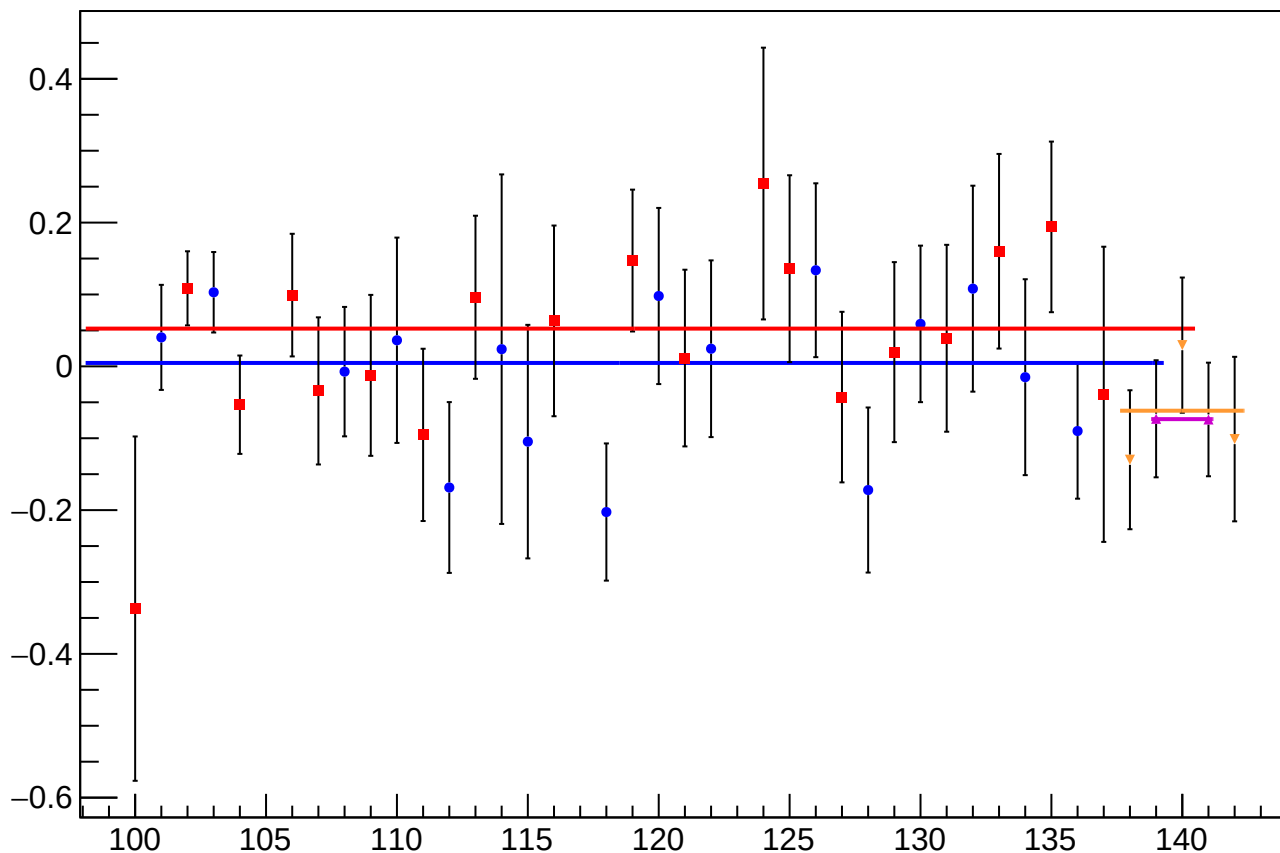
Out: 0.000+/-0.000

χ^2/NDF : 3956614.7/21

All: 0.000+/-0.000

χ^2/NDF : 6906581.3/39

asym_usr_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.026 χ^2 /NDF: 16.6/15

Left Out: -0.062 $\pm$ 0.058 χ^2 /NDF:1.6/2

Right Out: 0.053 $\pm$ 0.024 χ^2 /NDF: 14.8/18

Left In: -0.073 $\pm$ 0.057 χ^2 /NDF:0.0/1

Left: -0.068 $\pm$ 0.041 χ^2 /NDF: 1.6/4

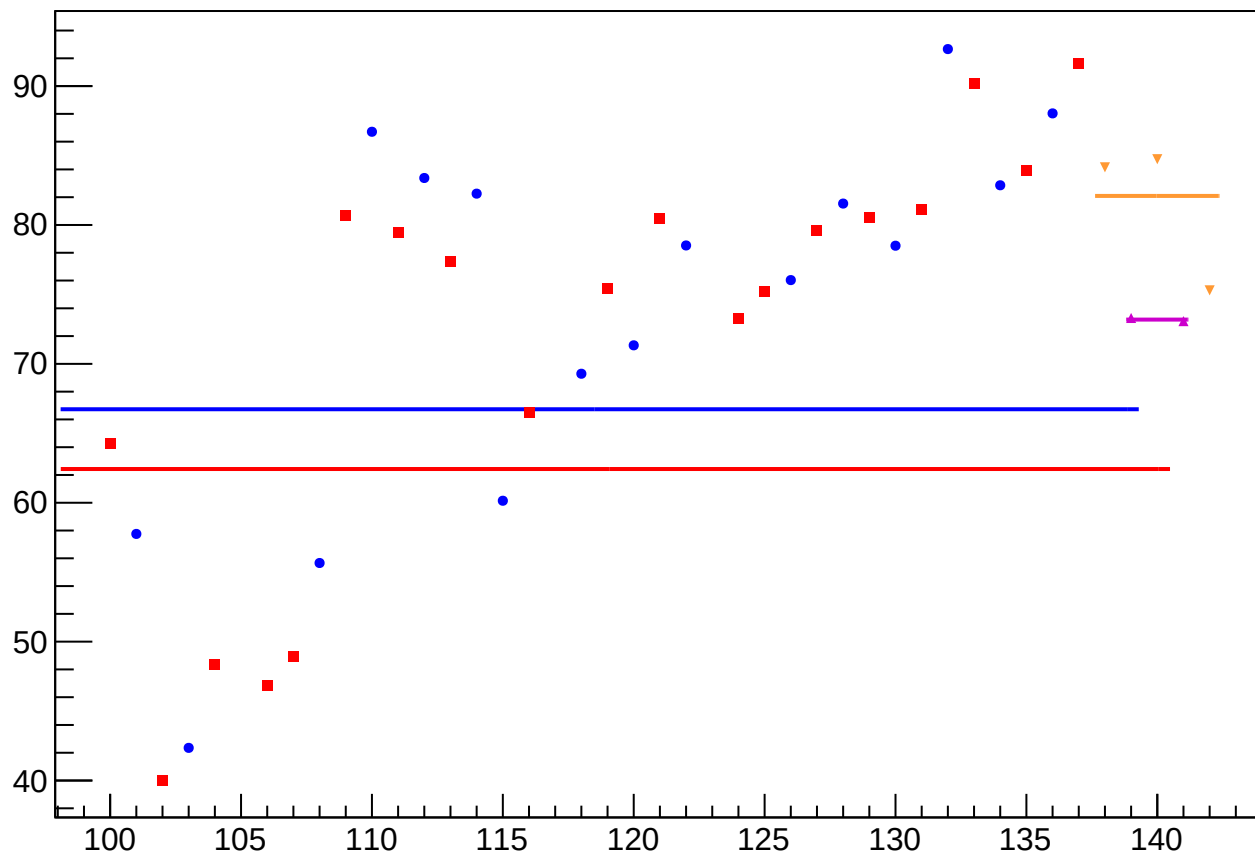
Right: 0.030 $\pm$ 0.018 χ^2 /NDF: 33.2/34

In: -0.009 $\pm$ 0.024 χ^2 /NDF:18.2/17

Out: 0.036 $\pm$ 0.022 χ^2 /NDF:19.7/21

All: 0.015 $\pm$ 0.016 χ^2 /NDF: 39.7/39

asym_usr_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 66.732 $\pm$ 0.018 χ^2 /NDF: 816752.6/15

Left Out: 82.092 $\pm$ 0.041 χ^2 /NDF:9546.6/2

Right Out: 62.429 $\pm$ 0.017 χ^2 /NDF: 1114078.0/18

Left In: 73.188 $\pm$ 0.040 χ^2 /NDF:8.1/1

Left: 77.534 $\pm$ 0.029 χ^2 /NDF: 33617.3/4

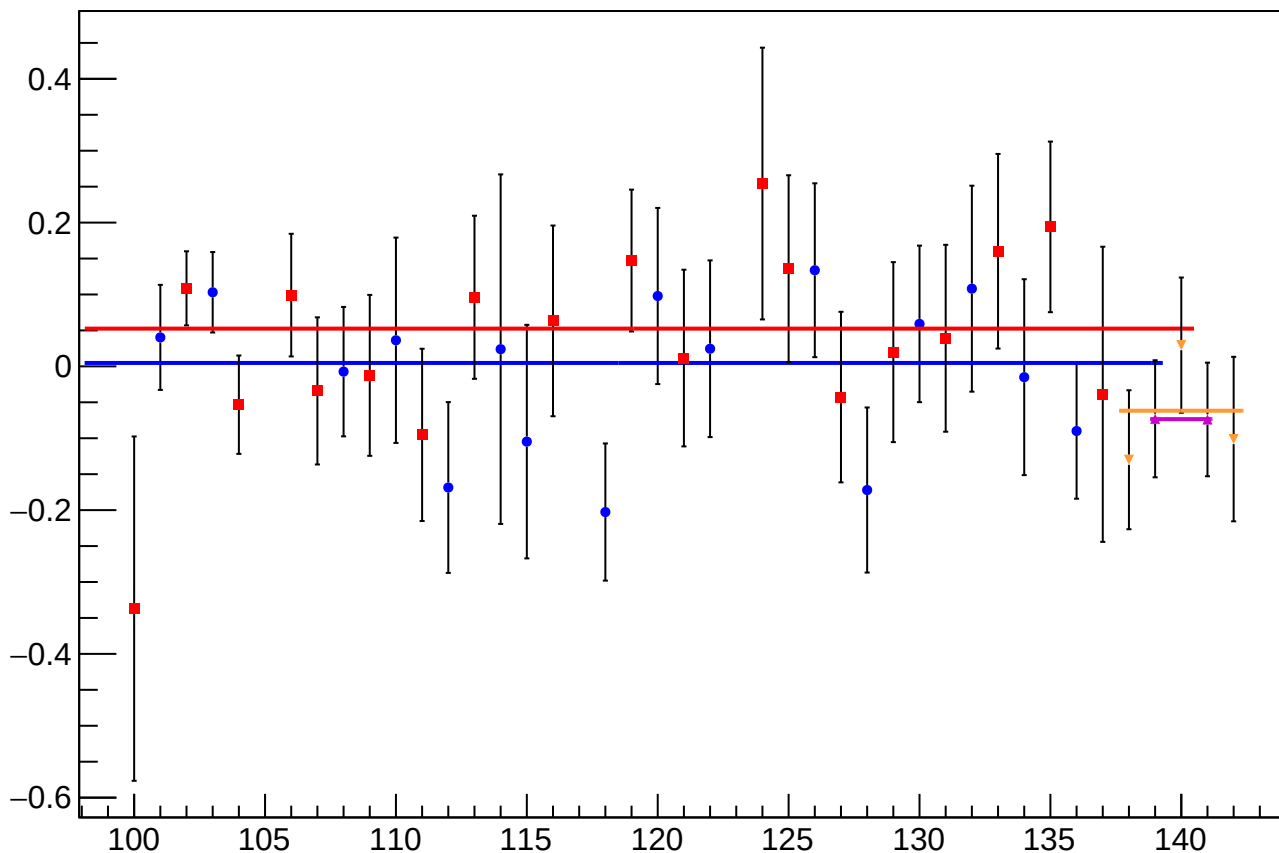
Right: 64.425 $\pm$ 0.012 χ^2 /NDF: 1960436.9/34

In: 67.846 $\pm$ 0.017 χ^2 /NDF:838205.5/17

Out: 65.315 $\pm$ 0.016 χ^2 /NDF:1319197.3/21

All: 66.508 $\pm$ 0.011 χ^2 /NDF: 2169611.1/39

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.026 χ^2 /NDF: 16.6/15

Left Out: -0.062 $\pm$ 0.058 χ^2 /NDF:1.6/2

Right Out: 0.053 $\pm$ 0.024 χ^2 /NDF: 14.8/18

Left In: -0.073 $\pm$ 0.057 χ^2 /NDF:0.0/1

Left: -0.068 $\pm$ 0.041 χ^2 /NDF: 1.6/4

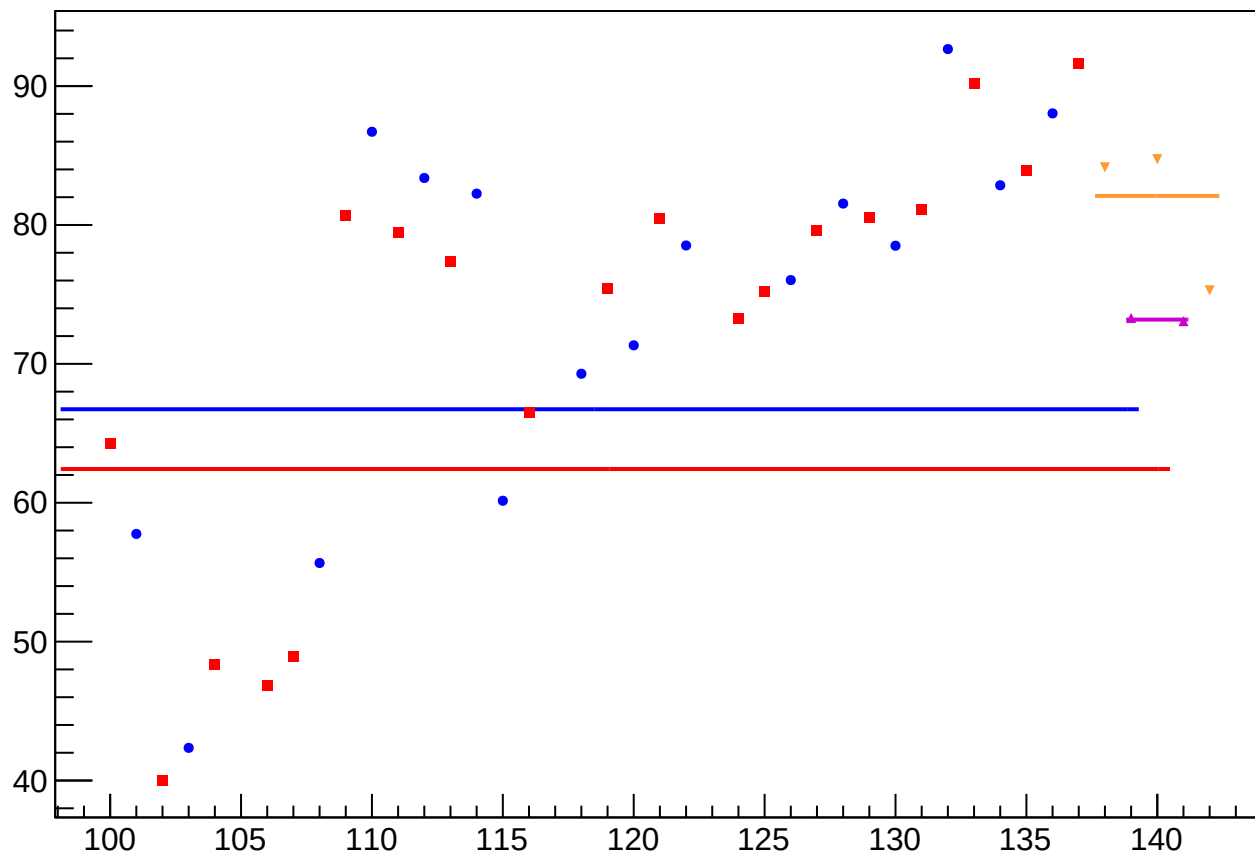
Right: 0.030 $\pm$ 0.018 χ^2 /NDF: 33.2/34

In: -0.009 $\pm$ 0.024 χ^2 /NDF:18.2/17

Out: 0.036 $\pm$ 0.022 χ^2 /NDF:19.7/21

All: 0.015 $\pm$ 0.016 χ^2 /NDF: 39.7/39

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 66.732 $\pm$ 0.018 χ^2 /NDF: 816752.6/15

Left Out: 82.092 $\pm$ 0.041 χ^2 /NDF:9546.6/2

Right Out: 62.429 $\pm$ 0.017 χ^2 /NDF: 1114078.0/18

Left In: 73.188 $\pm$ 0.040 χ^2 /NDF:8.1/1

Left: 77.534 $\pm$ 0.029 χ^2 /NDF: 33617.3/4

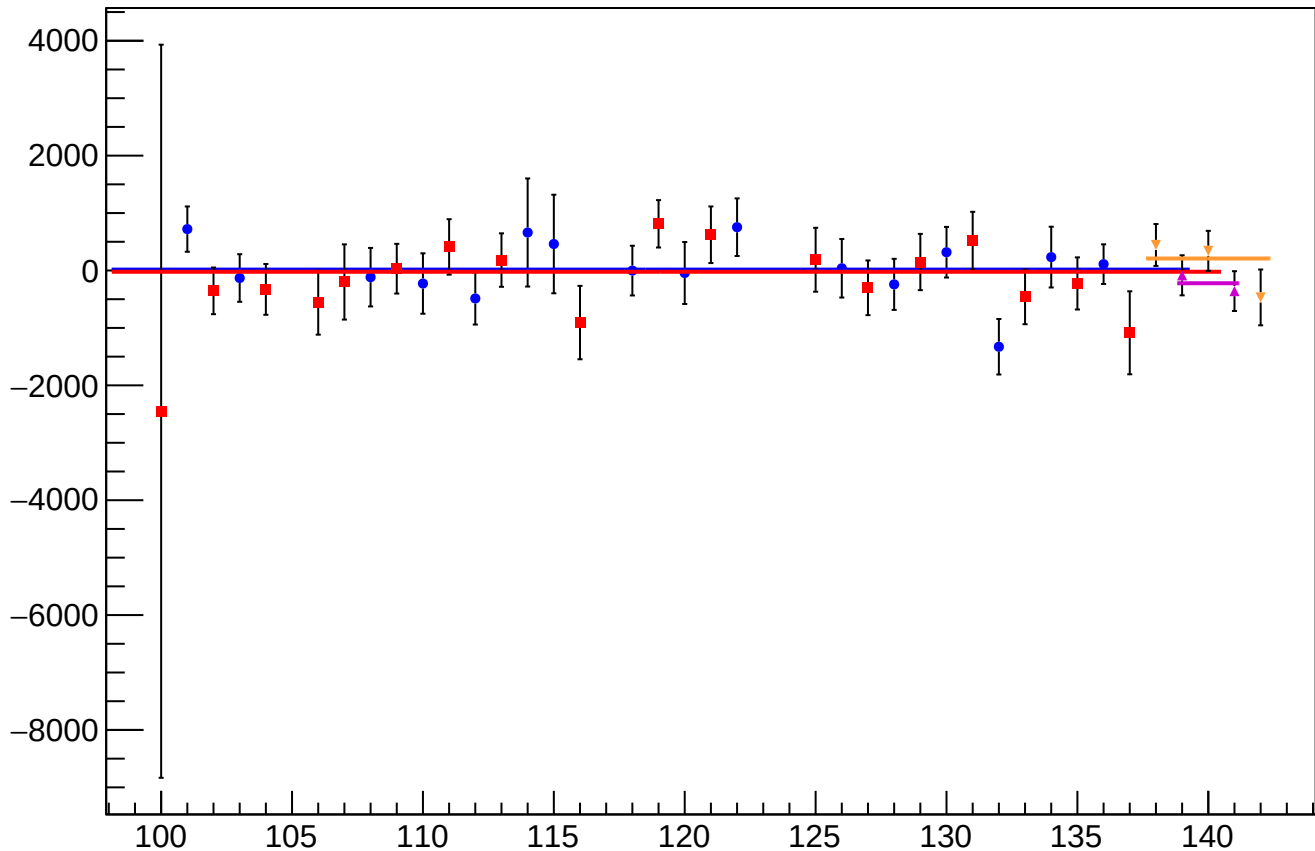
Right: 64.425 $\pm$ 0.012 χ^2 /NDF: 1960436.9/34

In: 67.846 $\pm$ 0.017 χ^2 /NDF:838205.5/17

Out: 65.315 $\pm$ 0.016 χ^2 /NDF:1319197.3/21

All: 66.508 $\pm$ 0.011 χ^2 /NDF: 2169611.1/39

asym_dsl_mean vs Slug, Sign Corrected



Right In: 15.517+/-119.431 χ^2/NDF : 16.5/15

Left Out: 208.747+/-223.556 χ^2/NDF : 2.5/2

Right Out: -22.145+/-119.211 χ^2/NDF : 16.0/17

Left In: -222.197+/-245.775 χ^2/NDF : 0.3/1

Left: 13.631+/-165.377 χ^2/NDF : 4.5/4

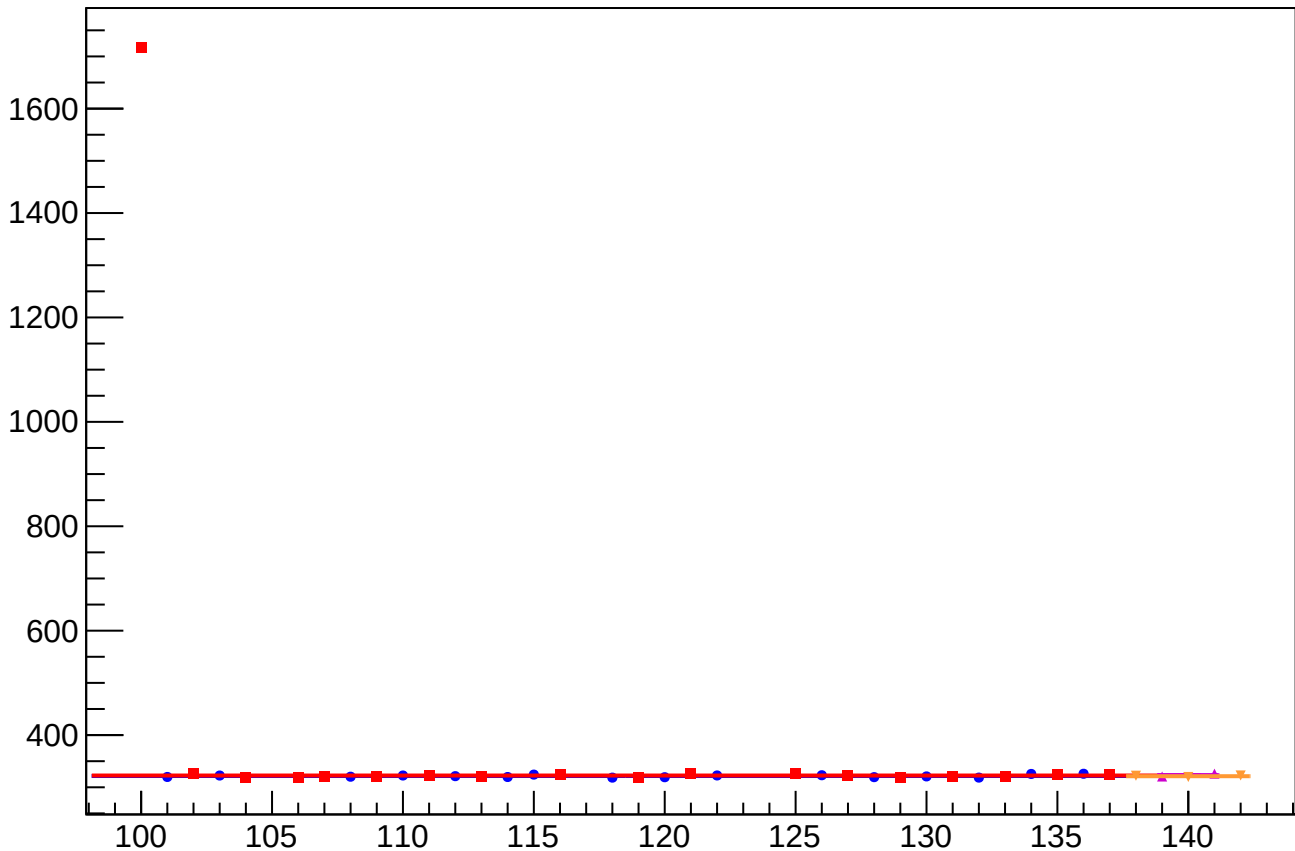
Right: -3.348+/-84.373 χ^2/NDF : 32.6/33

In: -29.892+/-107.420 χ^2/NDF : 17.6/17

Out: 28.975+/-105.190 χ^2/NDF : 19.3/20

All: 0.158+/-75.157 χ^2/NDF : 37.1/38

asym_dsl_rms vs Slug, Sign Corrected



Right In: 321.604 $\pm$ 0.084 χ^2 /NDF: 822.9/15

Left Out: 321.243 $\pm$ 0.158 χ^2 /NDF:66.7/2

Right Out: 322.553 $\pm$ 0.084 χ^2 /NDF: 96891.9/17

Left In: 323.422 $\pm$ 0.174 χ^2 /NDF:241.9/1

Left: 322.230 $\pm$ 0.117 χ^2 /NDF: 394.6/4

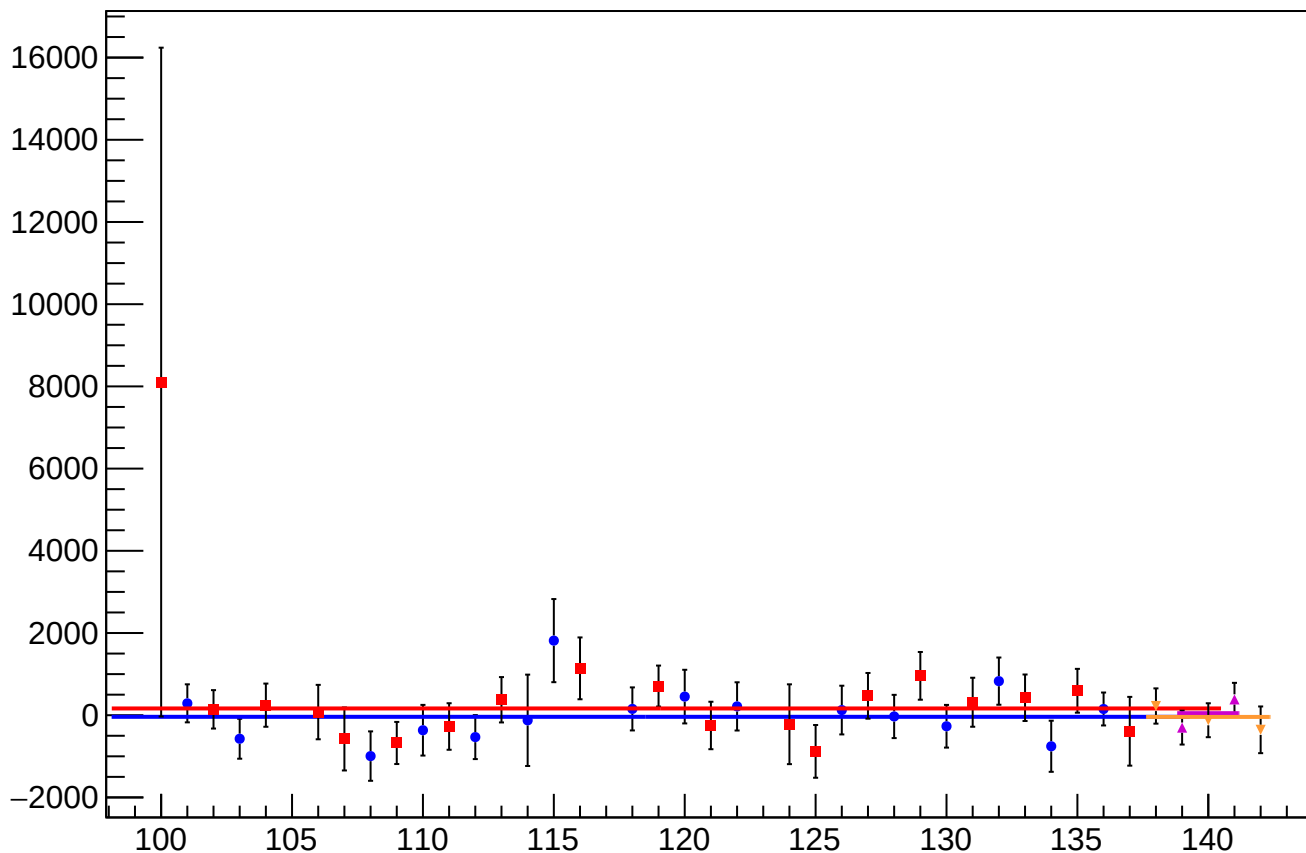
Right: 322.079 $\pm$ 0.060 χ^2 /NDF: 97778.0/33

In: 321.951 $\pm$ 0.076 χ^2 /NDF:1153.3/17

Out: 322.263 $\pm$ 0.074 χ^2 /NDF:97012.1/20

All: 322.110 $\pm$ 0.053 χ^2 /NDF: 98173.9/38

asym_dsr_mean vs Slug, Sign Corrected



Right In: -38.914 ± 140.720 χ^2/NDF : 13.7/15

Left Out: -41.498 ± 263.497 χ^2/NDF : 0.7/2

Right Out: 164.639 ± 138.962 χ^2/NDF : 15.1/18

Left In: 49.848 ± 288.023 χ^2/NDF : 1.4/1

Left: 0.121 ± 194.414 χ^2/NDF : 2.2/4

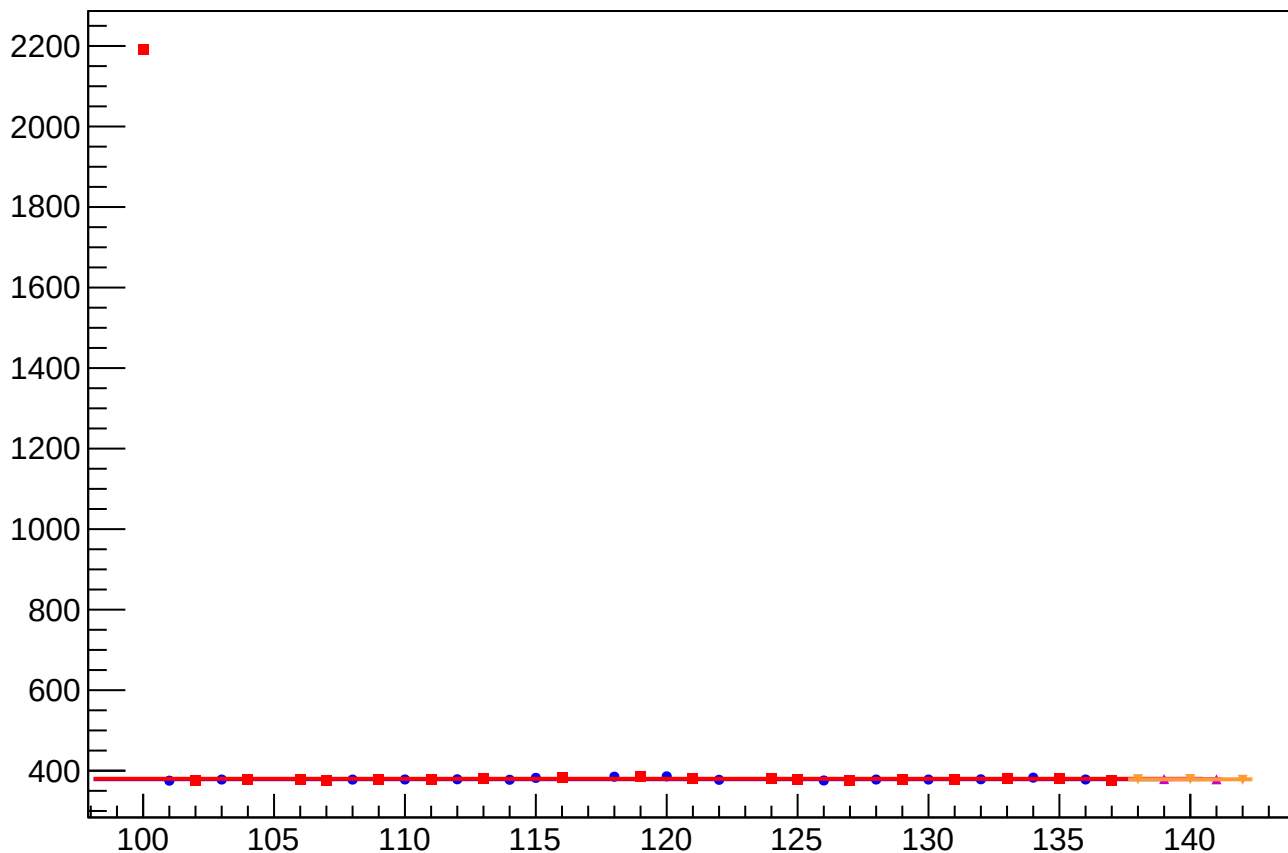
Right: 64.141 ± 98.877 χ^2/NDF : 29.9/34

In: -21.810 ± 126.436 χ^2/NDF : 15.2/17

Out: 119.783 ± 122.916 χ^2/NDF : 16.3/21

All: 50.985 ± 88.133 χ^2/NDF : 32.2/39

asym_dsr_rms vs Slug, Sign Corrected



Right In: 378.910 $\pm$ 0.100 χ^2 /NDF: 851.2/15

Left Out: 378.624 $\pm$ 0.186 χ^2 /NDF:13.4/2

Right Out: 379.878 $\pm$ 0.098 χ^2 /NDF: 99621.5/18

Left In: 379.010 $\pm$ 0.204 χ^2 /NDF:1.6/1

Left: 378.800 $\pm$ 0.137 χ^2 /NDF: 17.0/4

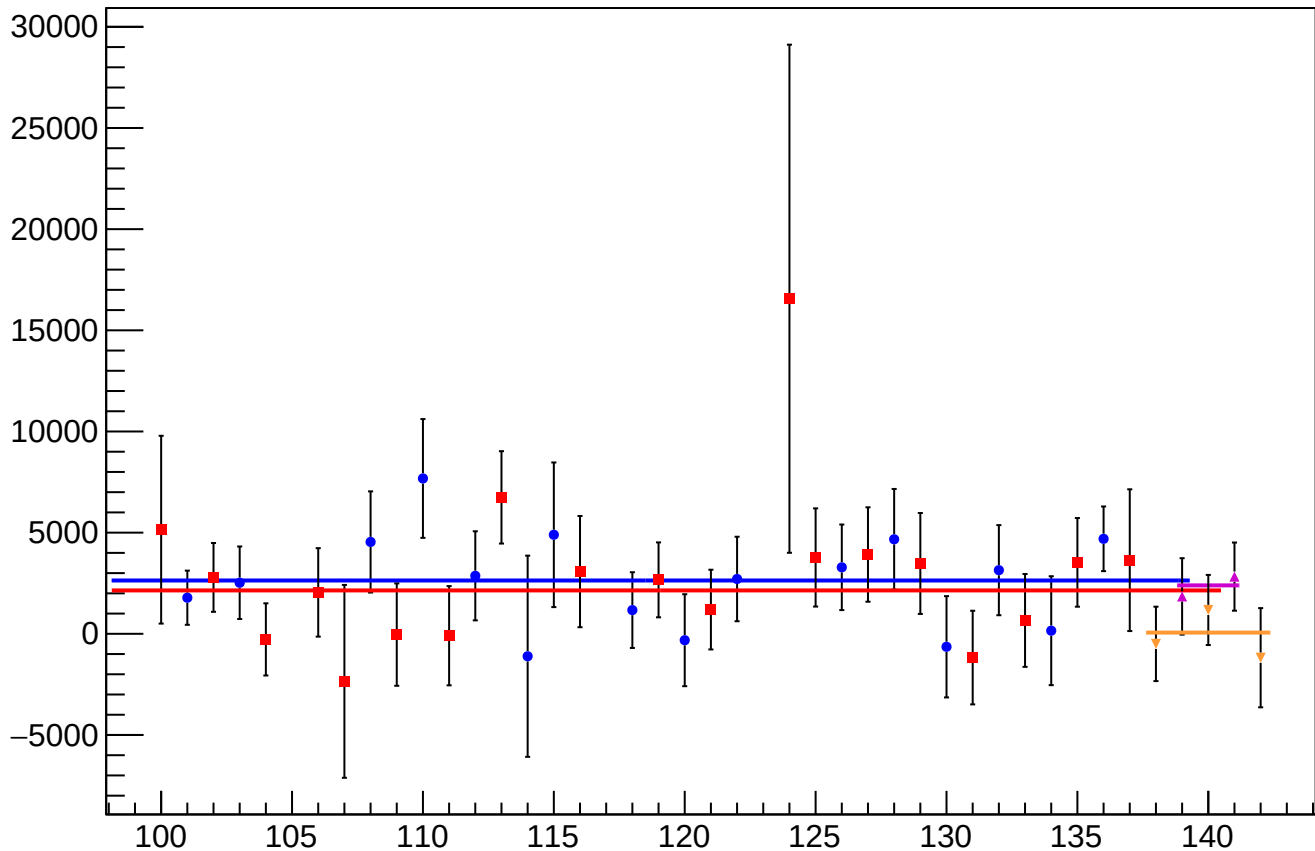
Right: 379.400 $\pm$ 0.070 χ^2 /NDF: 100520.6/34

In: 378.929 $\pm$ 0.089 χ^2 /NDF:853.0/17

Out: 379.605 $\pm$ 0.087 χ^2 /NDF:99670.3/21

All: 379.277 $\pm$ 0.062 χ^2 /NDF: 100552.7/39

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 2635.397+/-538.034 χ^2/NDF : 12.3/15

Left Out: 60.649+/-1121.520 χ^2/NDF : 0.8/2

Right Out: 2144.569+/-546.963 χ^2/NDF : 15.0/18

Left In: 2393.398+/-1257.408 χ^2/NDF : 0.1/1

Left: 1094.207+/-836.969 χ^2/NDF : 2.8/4

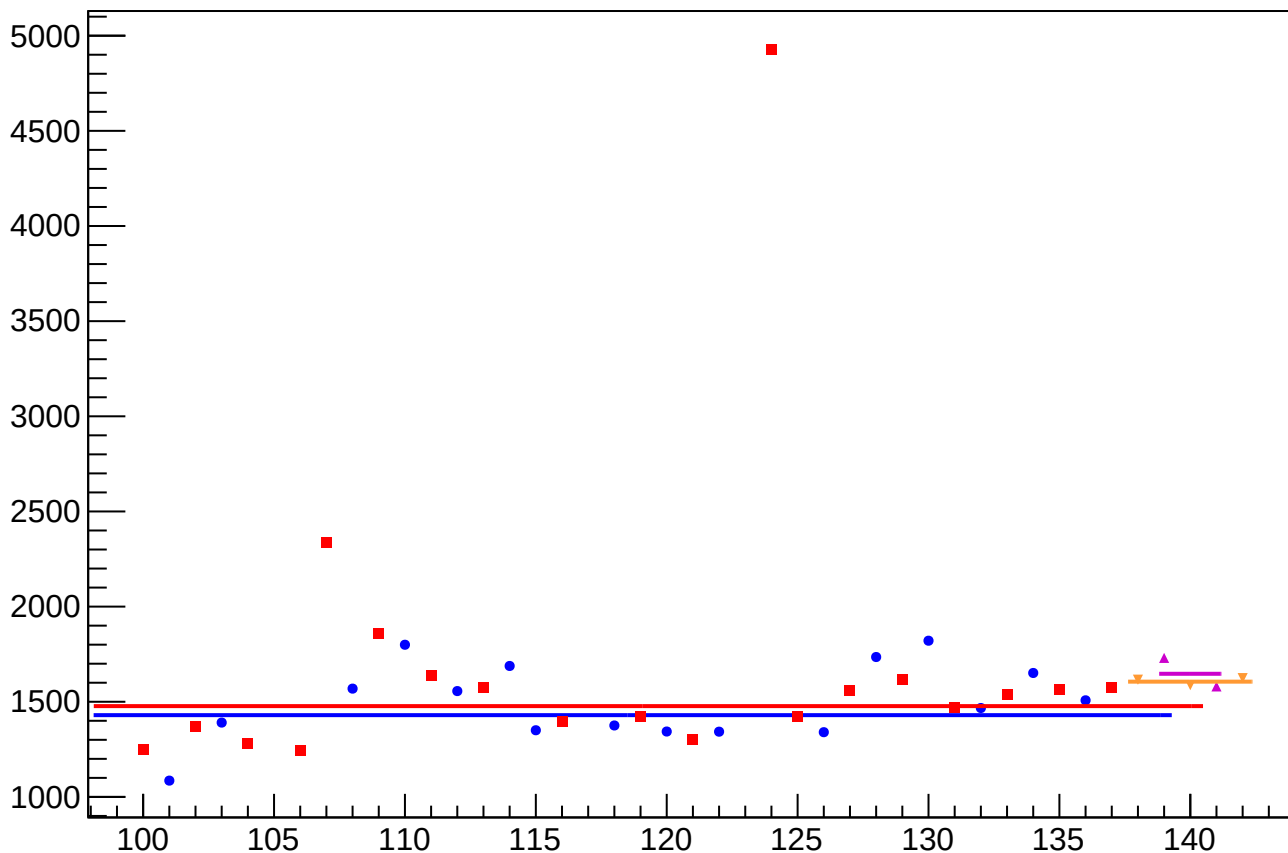
Right: 2394.022+/-383.566 χ^2/NDF : 27.7/34

In: 2597.946+/-494.653 χ^2/NDF : 12.4/17

Out: 1744.149+/-491.614 χ^2/NDF : 18.6/21

All: 2168.417+/-348.693 χ^2/NDF : 32.5/39

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1429.654+/-0.380 χ^2/NDF : 293388.5/15

Left Out: 1605.673+/-0.793 χ^2/NDF : 407.5/2

Right Out: 1477.126+/-0.387 χ^2/NDF : 369430.6/18

Left In: 1646.995+/-0.889 χ^2/NDF : 7018.9/1

Left: 1623.981+/-0.592 χ^2/NDF : 8629.3/4

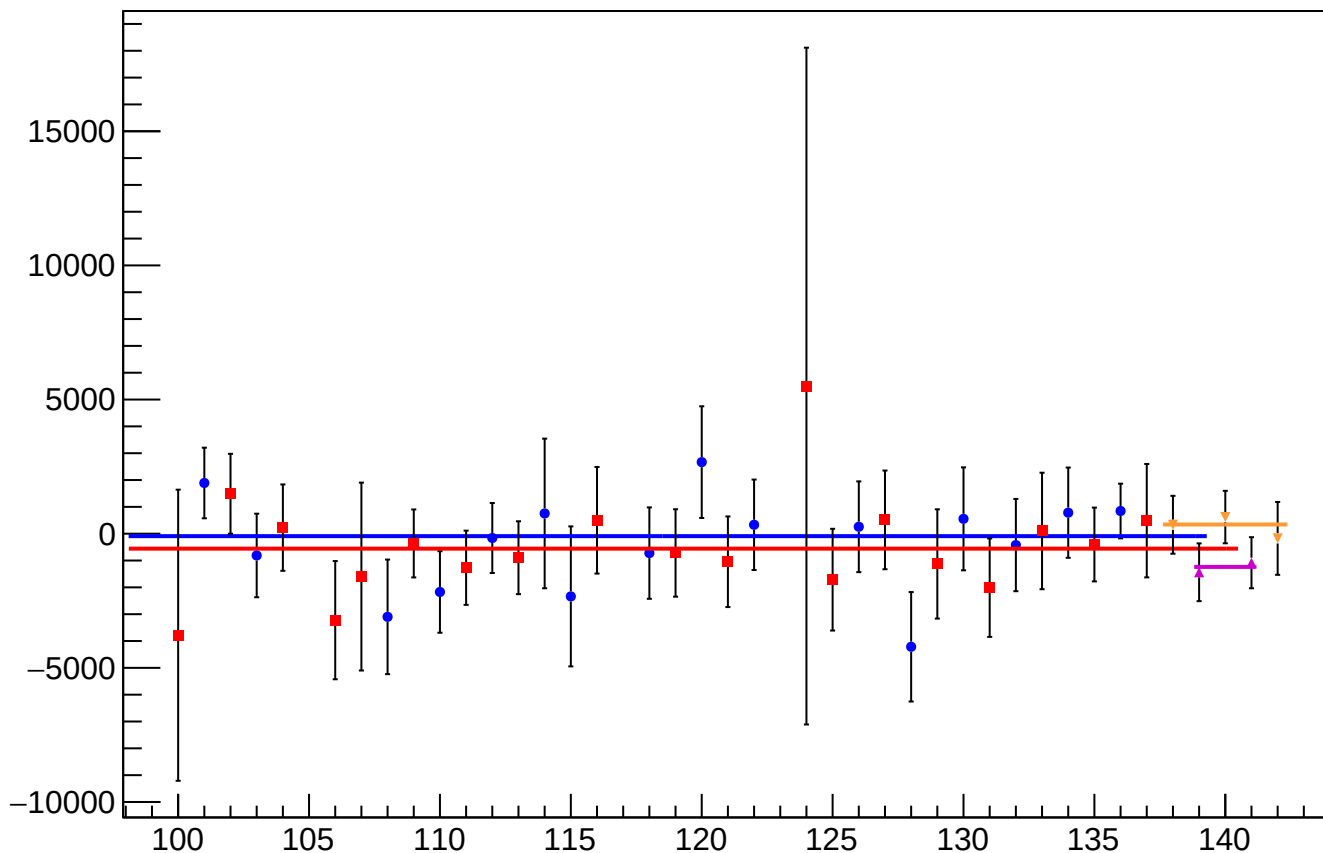
Right: 1452.999+/-0.271 χ^2/NDF : 670475.8/34

In: 1463.289+/-0.350 χ^2/NDF : 350913.2/17

Out: 1501.826+/-0.348 χ^2/NDF : 391064.4/21

All: 1482.676+/-0.247 χ^2/NDF : 748084.6/39

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -91.305 ± 409.957 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 342.910 ± 639.209 $\chi^2/\text{NDF}: 0.2/2$

Right Out: -556.840 ± 411.346 $\chi^2/\text{NDF}: 6.8/18$

Left In: -1238.179 ± 713.162 $\chi^2/\text{NDF}: 0.1/1$

Left: -361.433 ± 475.995 $\chi^2/\text{NDF}: 3.0/4$

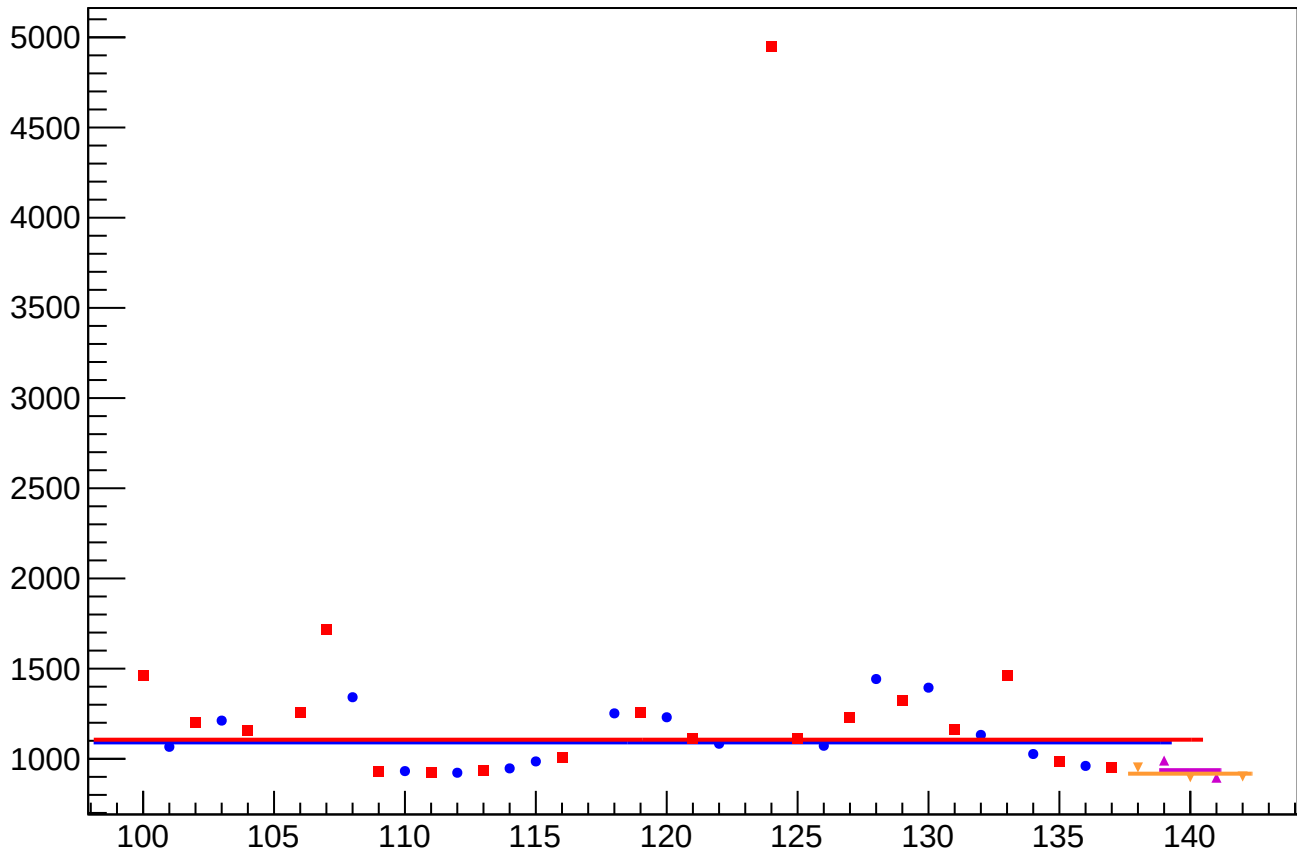
Right: -323.285 ± 290.373 $\chi^2/\text{NDF}: 21.9/34$

In: -376.156 ± 355.418 $\chi^2/\text{NDF}: 16.5/17$

Out: -293.351 ± 345.910 $\chi^2/\text{NDF}: 8.4/21$

All: -333.631 ± 247.889 $\chi^2/\text{NDF}: 24.9/39$

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1091.041+/-0.290 χ^2/NDF : 277304.9/15

Left Out: 917.692+/-0.452 χ^2/NDF : 3160.2/2

Right Out: 1106.046+/-0.291 χ^2/NDF : 514097.9/18

Left In: 937.140+/-0.504 χ^2/NDF : 8716.9/1

Left: 926.355+/-0.337 χ^2/NDF : 12701.8/4

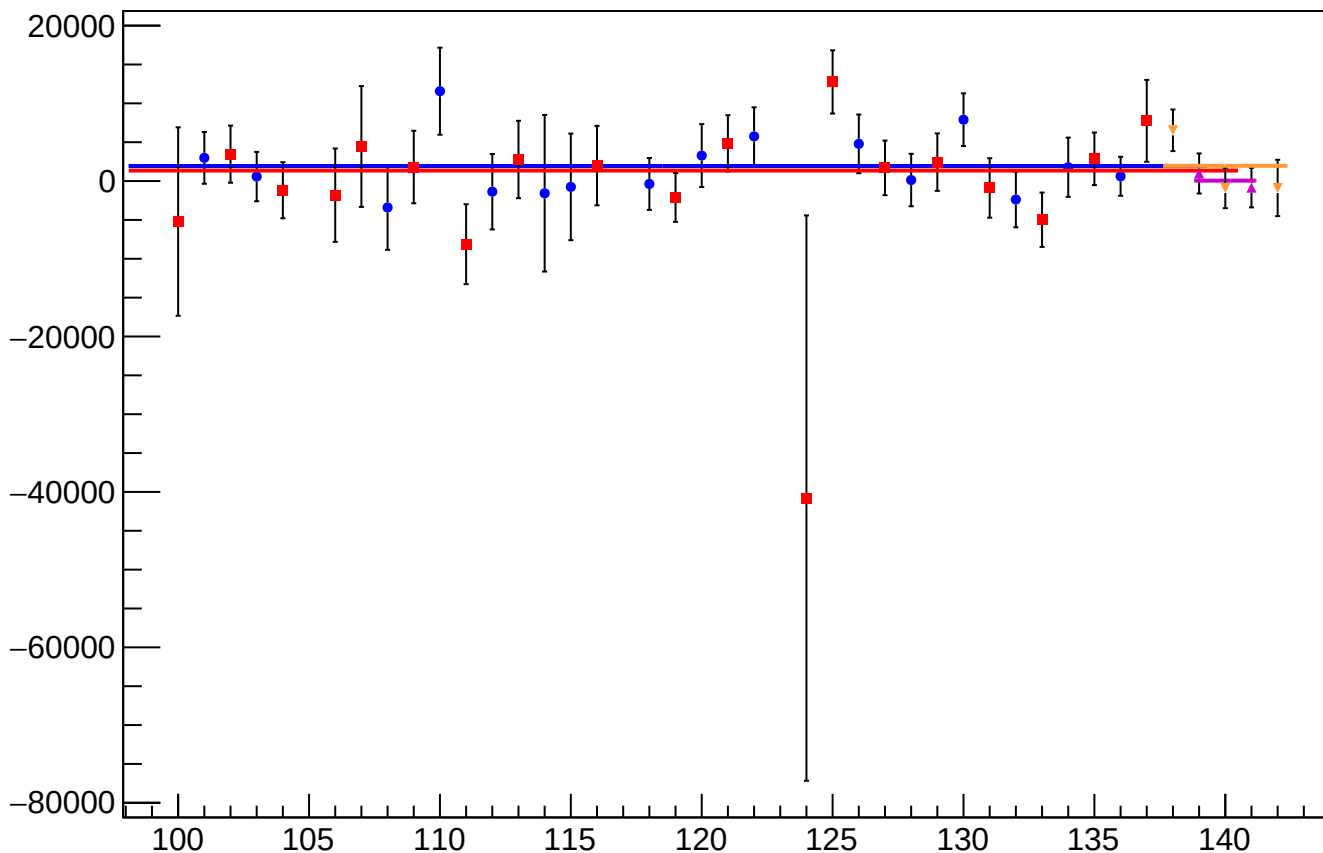
Right: 1098.518+/-0.205 χ^2/NDF : 792737.9/34

In: 1052.816+/-0.251 χ^2/NDF : 356028.5/17

Out: 1050.887+/-0.245 χ^2/NDF : 640060.9/21

All: 1051.825+/-0.175 χ^2/NDF : 996119.7/39

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1939.656+/-952.537 χ^2/NDF : 12.2/15

Left Out: 1959.707+/-1658.067 χ^2/NDF : 4.7/2

Right Out: 1353.428+/-985.119 χ^2/NDF : 21.8/18

Left In: 54.731+/-1809.585 χ^2/NDF : 0.3/1

Left: 1090.298+/-1222.493 χ^2/NDF : 5.6/4

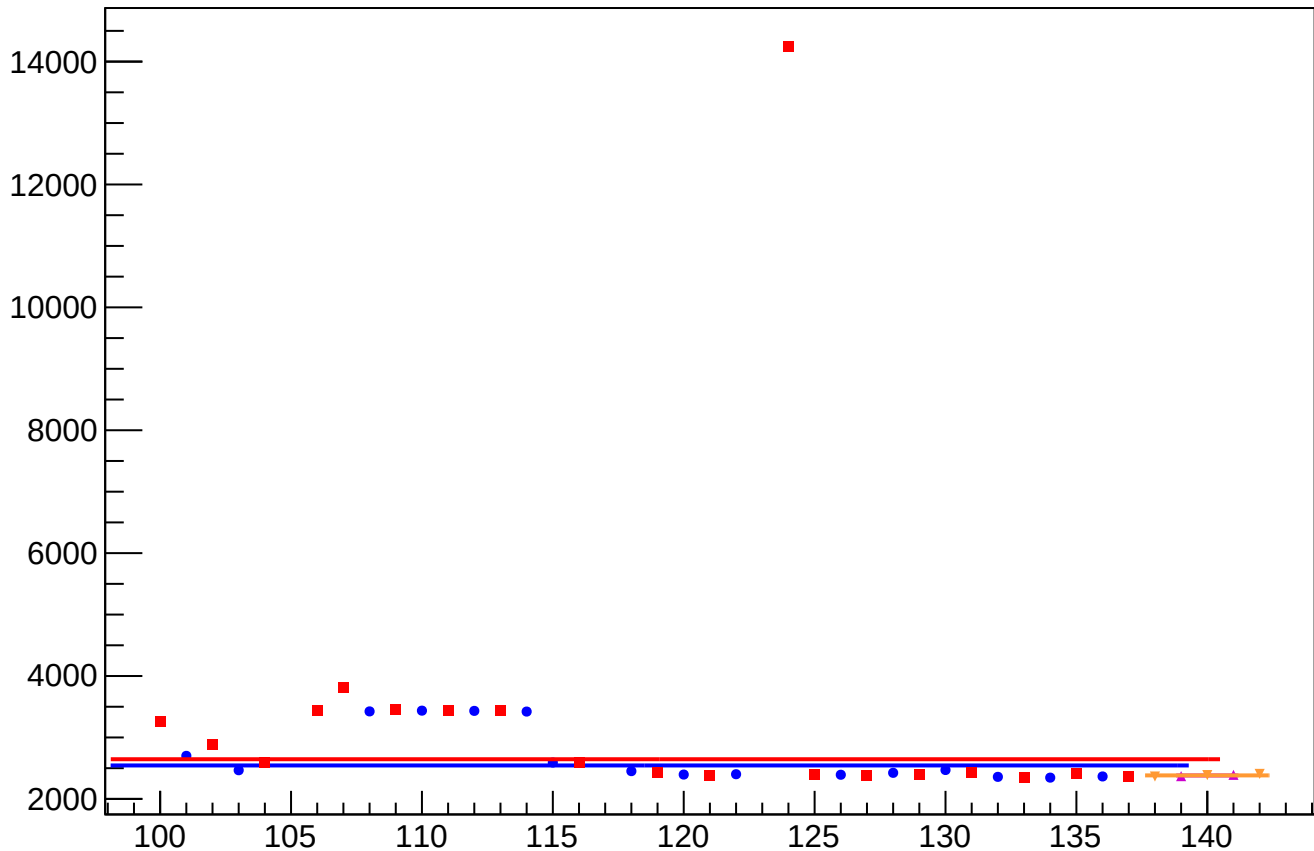
Right: 1656.397+/-684.775 χ^2/NDF : 34.2/34

In: 1530.695+/-842.894 χ^2/NDF : 13.3/17

Out: 1511.607+/-846.916 χ^2/NDF : 26.6/21

All: 1521.197+/-597.433 χ^2/NDF : 40.0/39

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2544.416 $\pm$ 0.674 χ^2 /NDF: 225614.0/15

Left Out: 2382.571 $\pm$ 1.172 χ^2 /NDF:192.3/2

Right Out: 2645.647 $\pm$ 0.697 χ^2 /NDF: 536965.2/18

Left In: 2381.269 $\pm$ 1.280 χ^2 /NDF:69.2/1

Left: 2381.977 $\pm$ 0.864 χ^2 /NDF: 262.1/4

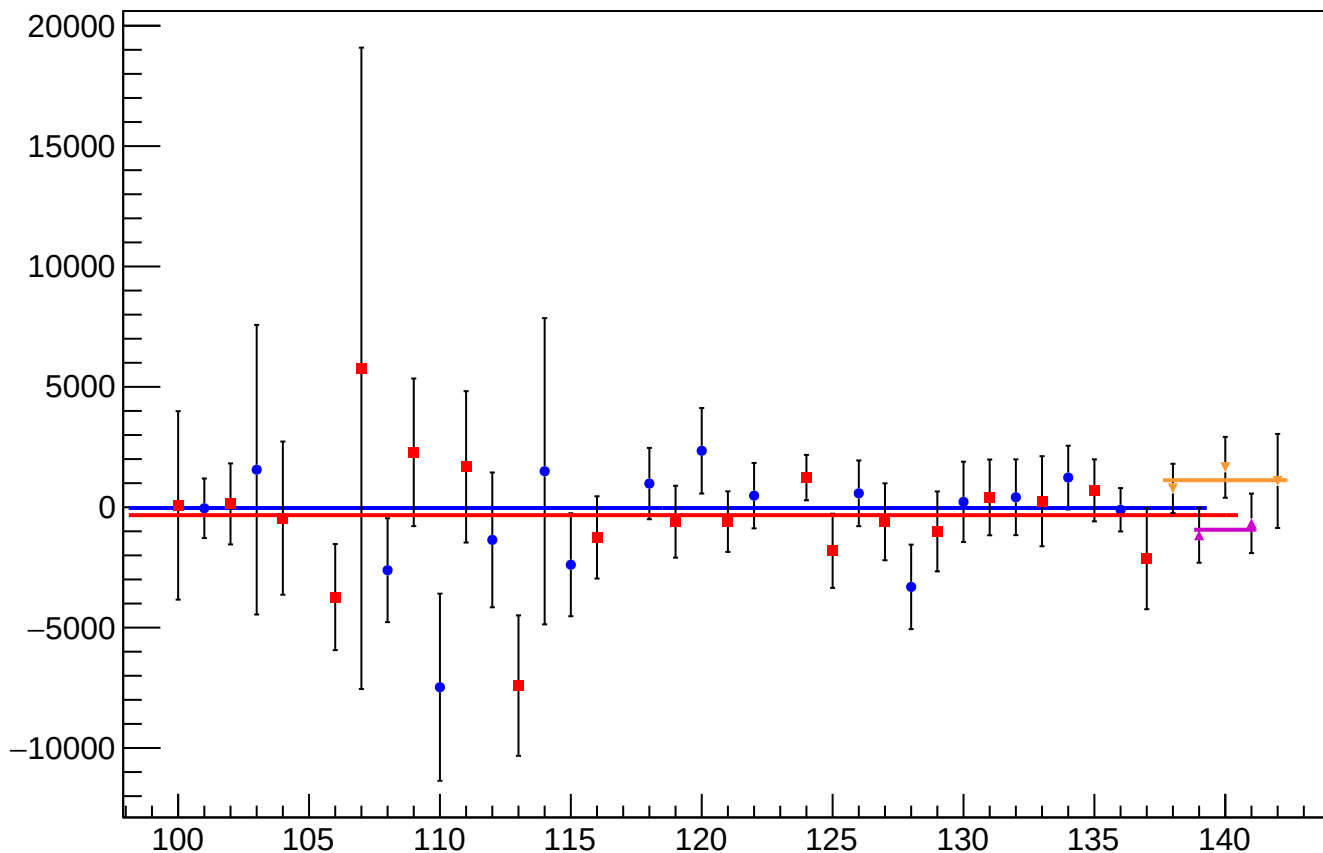
Right: 2593.330 $\pm$ 0.484 χ^2 /NDF: 773493.8/34

In: 2509.019 $\pm$ 0.596 χ^2 /NDF:238412.7/17

Out: 2577.010 $\pm$ 0.599 χ^2 /NDF:574369.9/21

All: 2542.853 $\pm$ 0.422 χ^2 /NDF: 819258.4/39

asym_atl1_reg_correction_mean vs Slug, Sign Corrected



Right In: -31.191 ± 405.726 χ^2/NDF : 13.8/15

Left Out: 1123.367 ± 736.178 χ^2/NDF : 0.3/2

Right Out: -328.475 ± 398.568 χ^2/NDF : 15.6/18

Left In: -934.475 ± 839.153 χ^2/NDF : 0.1/1

Left: 228.390 ± 553.403 χ^2/NDF : 3.8/4

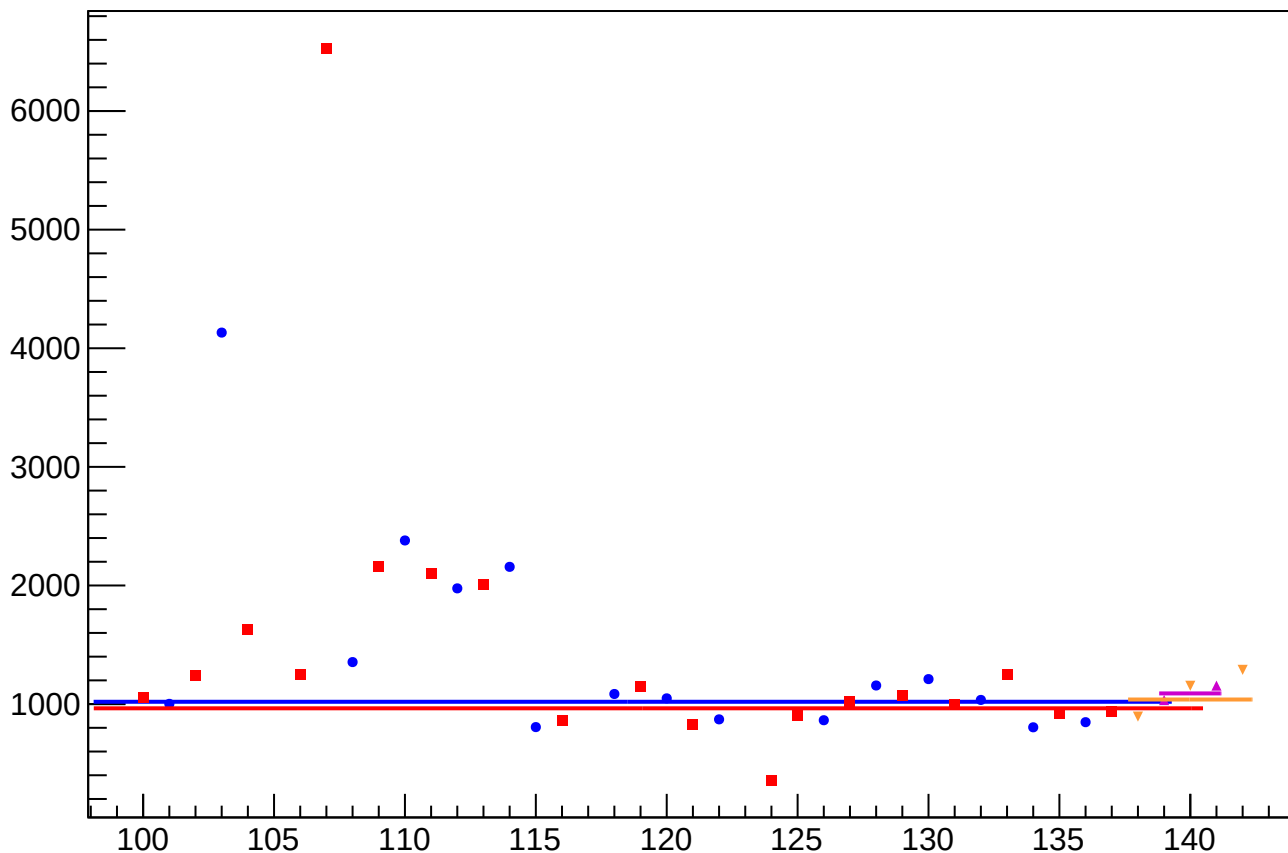
Right: -182.479 ± 284.327 χ^2/NDF : 29.7/34

In: -202.340 ± 365.272 χ^2/NDF : 14.8/17

Out: 0.620 ± 350.496 χ^2/NDF : 18.9/21

All: -96.672 ± 252.901 χ^2/NDF : 33.9/39

asym_atl1_reg_correction_rms vs Slug, Sign Corrected



Right In: 1019.523+/-0.287 χ^2/NDF : 1364745.9/15

Left Out: 1038.592+/-0.521 χ^2/NDF :89278.0/2

Right Out: 964.379+/-0.282 χ^2/NDF : 2309359.3/18

Left In: 1090.023+/-0.593 χ^2/NDF :10494.6/1

Left: 1060.959+/-0.391 χ^2/NDF : 104017.9/4

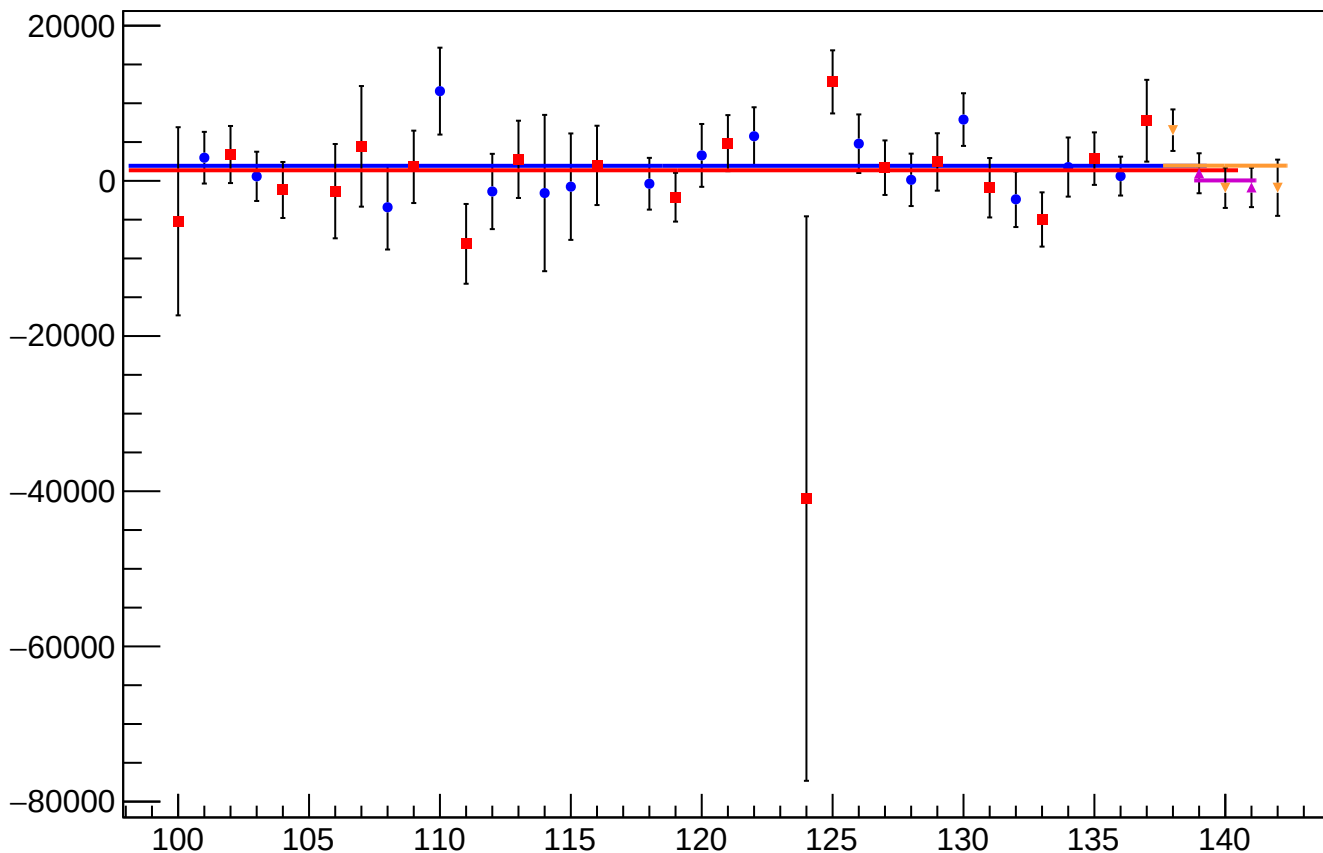
Right: 991.460+/-0.201 χ^2/NDF : 3692906.6/34

In: 1032.881+/-0.258 χ^2/NDF :1386682.2/17

Out: 981.201+/-0.248 χ^2/NDF :2414354.8/21

All: 1005.974+/-0.179 χ^2/NDF : 3821880.5/39

cor_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1940.005 ± 952.537 $\chi^2/\text{NDF}: 12.2/15$

Left Out: 1959.769 ± 1658.067 $\chi^2/\text{NDF}: 4.7/2$

Right Out: 1363.089 ± 985.420 $\chi^2/\text{NDF}: 21.7/18$

Left In: 55.230 ± 1809.585 $\chi^2/\text{NDF}: 0.3/1$

Left: 1090.559 ± 1222.493 $\chi^2/\text{NDF}: 5.6/4$

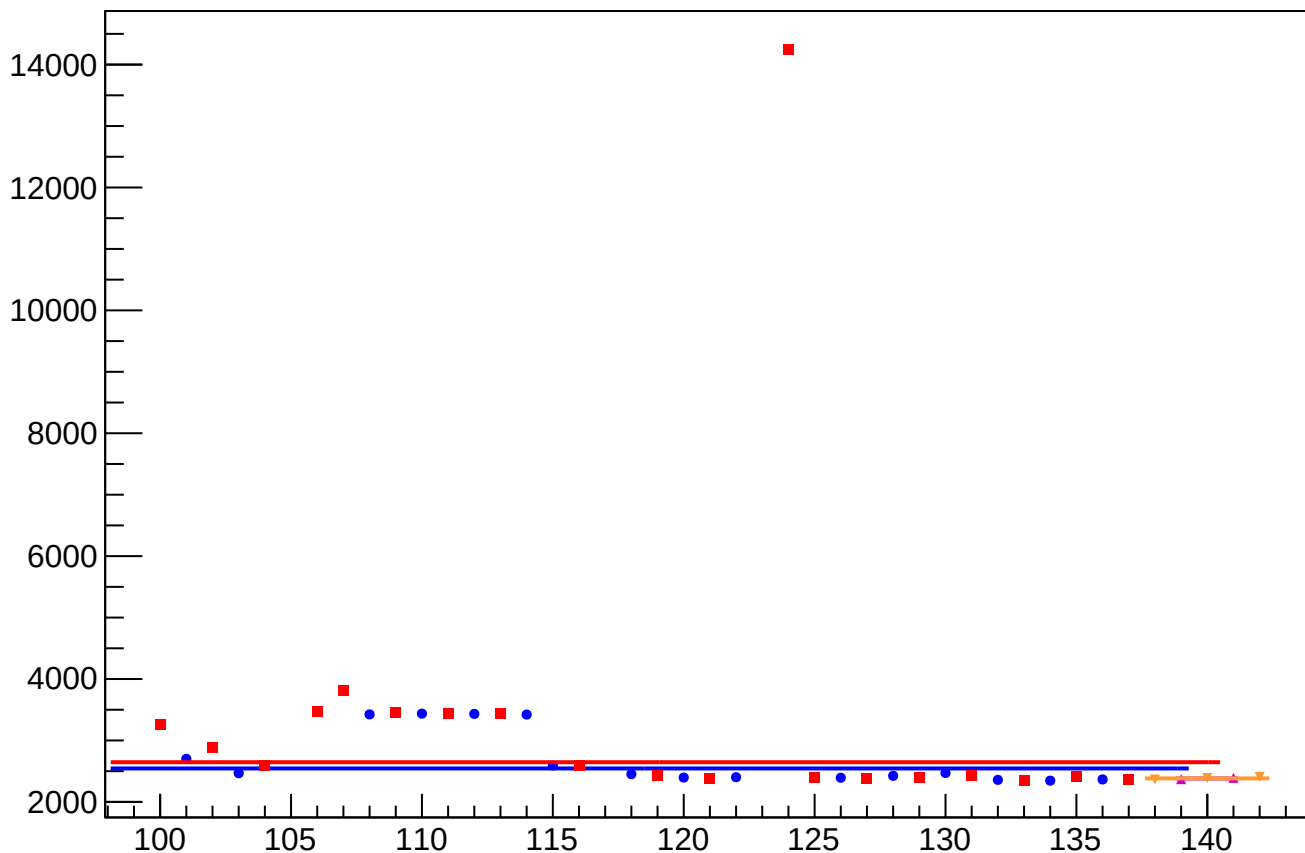
Right: 1661.333 ± 684.876 $\chi^2/\text{NDF}: 34.1/34$

In: 1531.077 ± 842.894 $\chi^2/\text{NDF}: 13.3/17$

Out: 1518.834 ± 847.107 $\chi^2/\text{NDF}: 26.5/21$

All: 1524.986 ± 597.500 $\chi^2/\text{NDF}: 39.9/39$

cor_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2544.416+/-0.674 χ^2/NDF : 225614.0/15

Left Out: 2382.572+/-1.172 χ^2/NDF :192.3/2

Right Out: 2646.203+/-0.697 χ^2/NDF : 539546.8/18

Left In: 2381.269+/-1.280 χ^2/NDF :69.2/1

Left: 2381.977+/-0.864 χ^2/NDF : 262.1/4

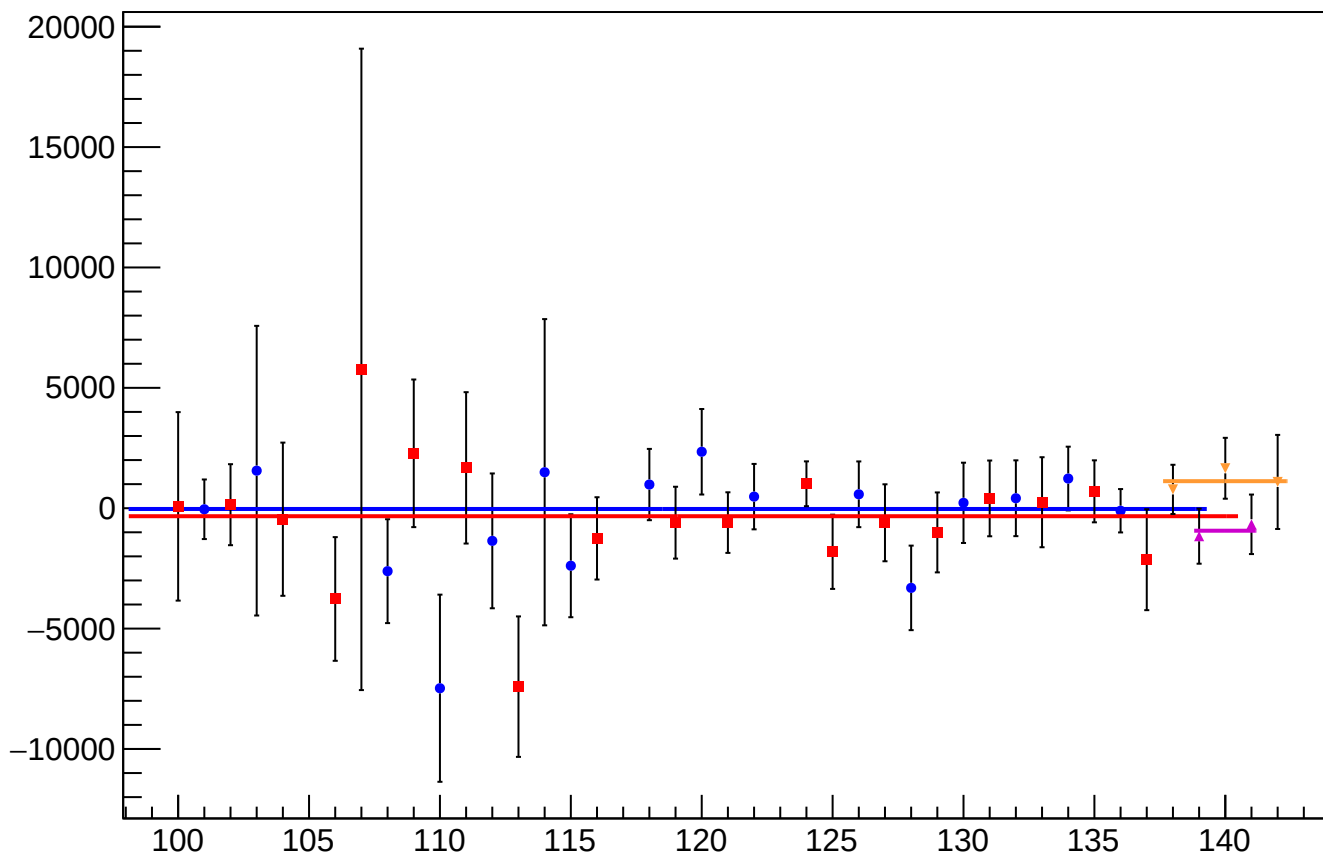
Right: 2593.583+/-0.484 χ^2/NDF : 776192.2/34

In: 2509.019+/-0.596 χ^2/NDF :238412.7/17

Out: 2577.390+/-0.599 χ^2/NDF :577103.1/21

All: 2543.034+/-0.422 χ^2/NDF : 822062.7/39

asym_atl1_cor_correction_mean vs Slug, Sign Corrected



Right In: -31.253 ± 405.723 χ^2/NDF : 13.8/15

Left Out: 1123.395 ± 736.181 χ^2/NDF : 0.3/2

Right Out: -331.962 ± 399.334 χ^2/NDF : 14.4/18

Left In: -934.483 ± 839.155 χ^2/NDF : 0.1/1

Left: 228.400 ± 553.405 χ^2/NDF : 3.8/4

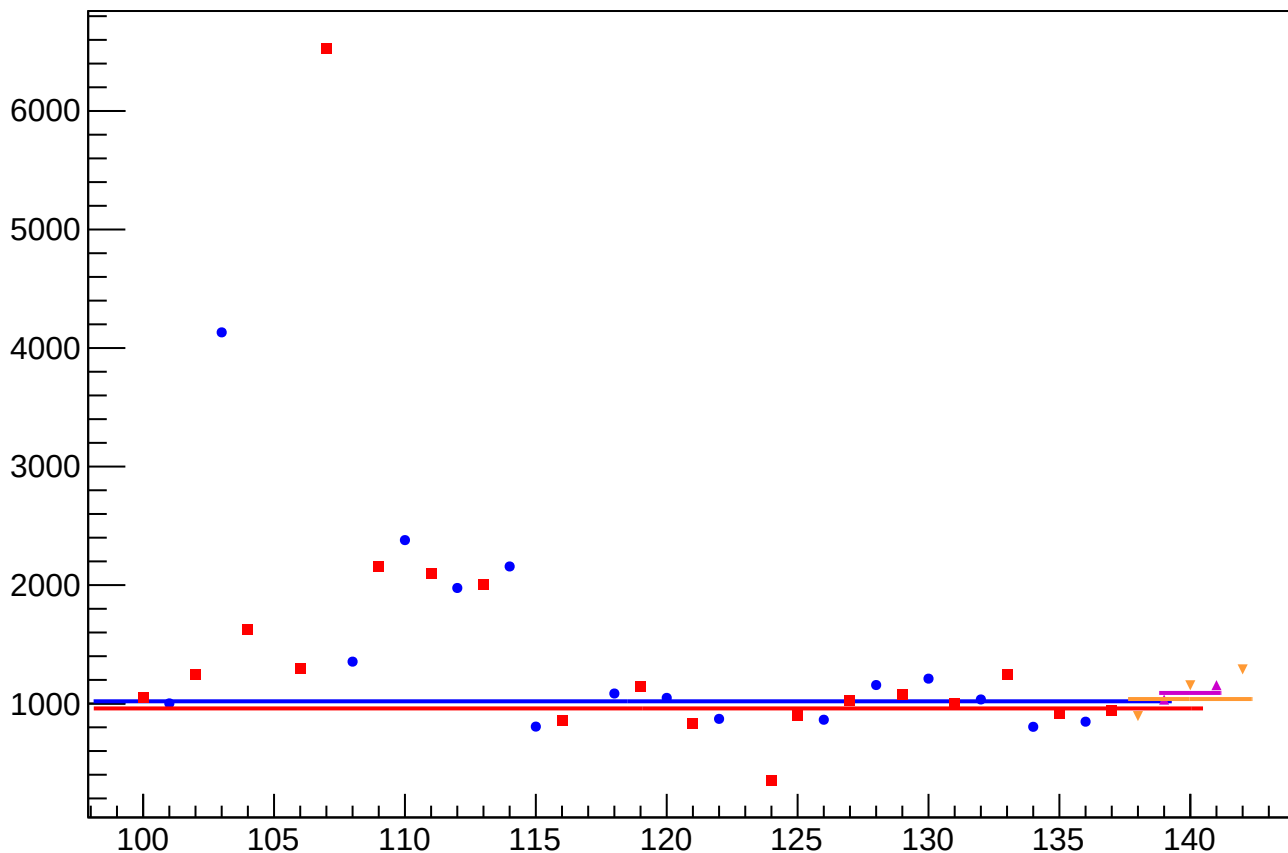
Right: -183.994 ± 284.604 χ^2/NDF : 28.5/34

In: -202.389 ± 365.270 χ^2/NDF : 14.8/17

Out: -1.092 ± 351.017 χ^2/NDF : 17.7/21

All: -97.737 ± 253.096 χ^2/NDF : 32.7/39

asym_atl1_cor_correction_rms vs Slug, Sign Corrected



Right In: 1019.514 $\pm$ 0.287 χ^2 /NDF: 1364741.0/15

Left Out: 1038.598 $\pm$ 0.521 χ^2 /NDF: 89272.4/2

Right Out: 959.344 $\pm$ 0.282 χ^2 /NDF: 2344434.8/18

Left In: 1090.023 $\pm$ 0.593 χ^2 /NDF: 10496.3/1

Left: 1060.963 $\pm$ 0.391 χ^2 /NDF: 104012.9/4

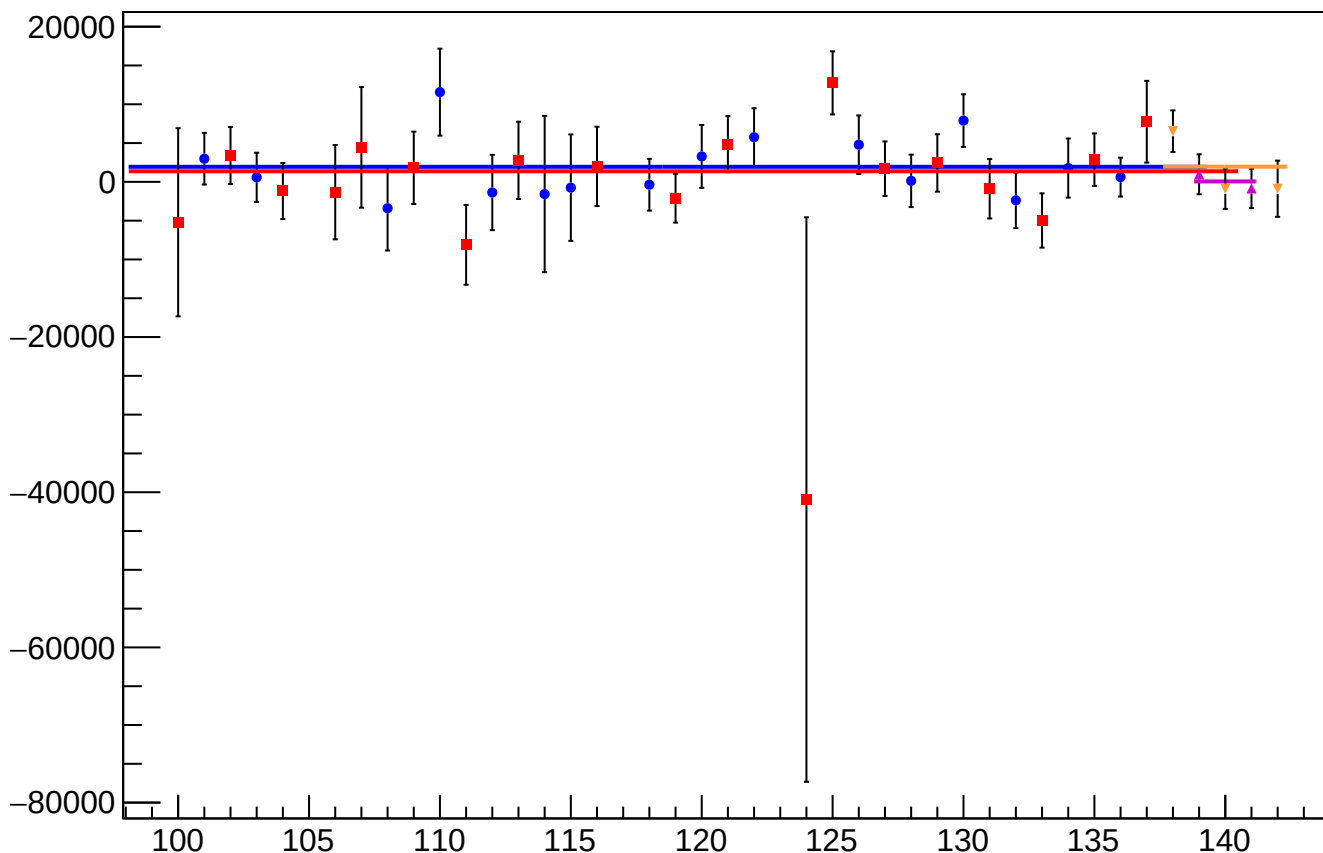
Right: 988.952 $\pm$ 0.201 χ^2 /NDF: 3731518.7/34

In: 1032.873 $\pm$ 0.258 χ^2 /NDF: 1386681.8/17

Out: 977.362 $\pm$ 0.248 χ^2 /NDF: 2451617.1/21

All: 1004.014 $\pm$ 0.179 χ^2 /NDF: 3862313.4/39

eigen_cor_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1940.005+/-952.537 χ^2/NDF : 12.2/15

Left Out: 1959.769+/-1658.067 χ^2/NDF : 4.7/2

Right Out: 1363.089+/-985.420 χ^2/NDF : 21.7/18

Left In: 55.230+/-1809.585 χ^2/NDF : 0.3/1

Left: 1090.559+/-1222.493 χ^2/NDF : 5.6/4

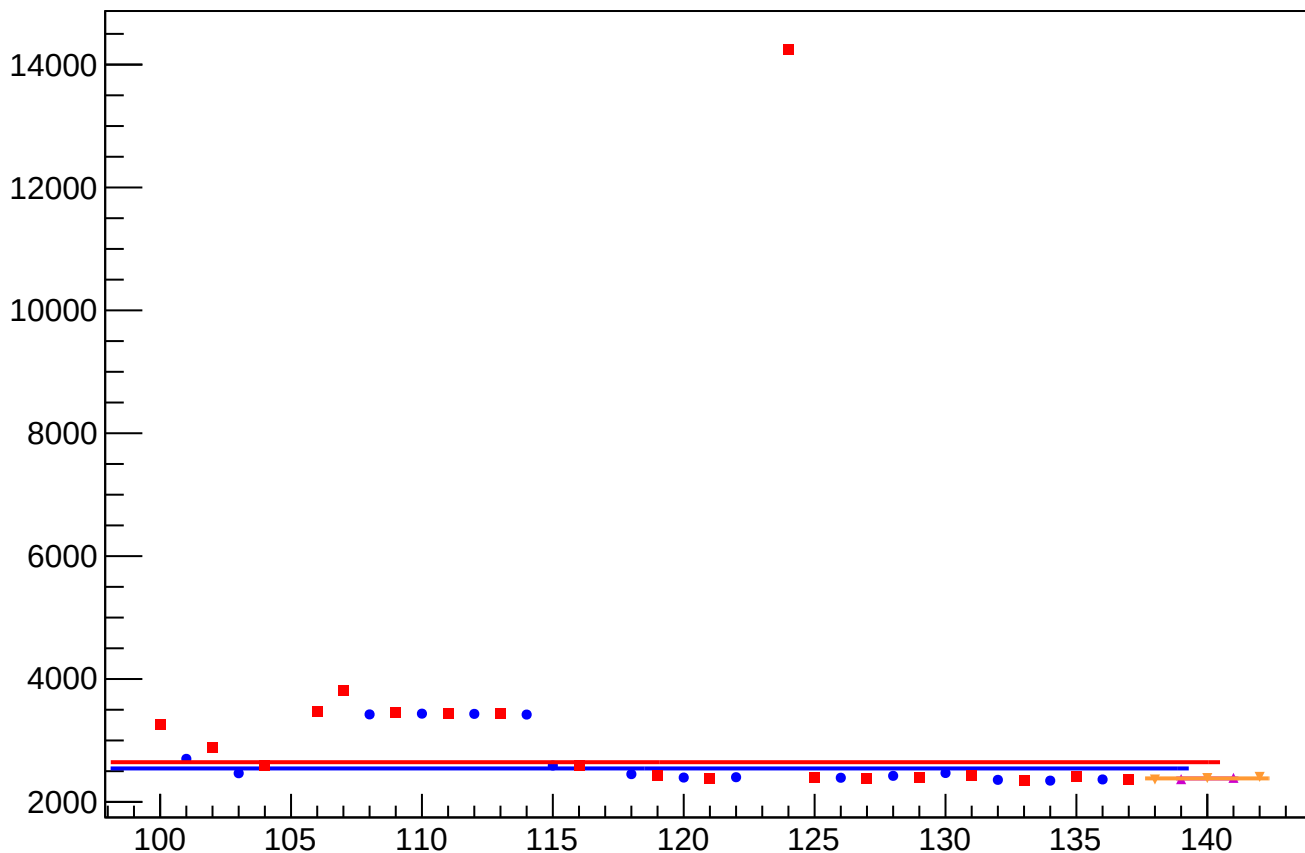
Right: 1661.333+/-684.876 χ^2/NDF : 34.1/34

In: 1531.077+/-842.894 χ^2/NDF : 13.3/17

Out: 1518.834+/-847.107 χ^2/NDF : 26.5/21

All: 1524.986+/-597.500 χ^2/NDF : 39.9/39

eigen_cor_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2544.416+/-0.674 χ^2/NDF : 225614.0/15

Left Out: 2382.572+/-1.172 χ^2/NDF :192.3/2

Right Out: 2646.203+/-0.697 χ^2/NDF : 539546.8/18

Left In: 2381.269+/-1.280 χ^2/NDF :69.2/1

Left: 2381.977+/-0.864 χ^2/NDF : 262.1/4

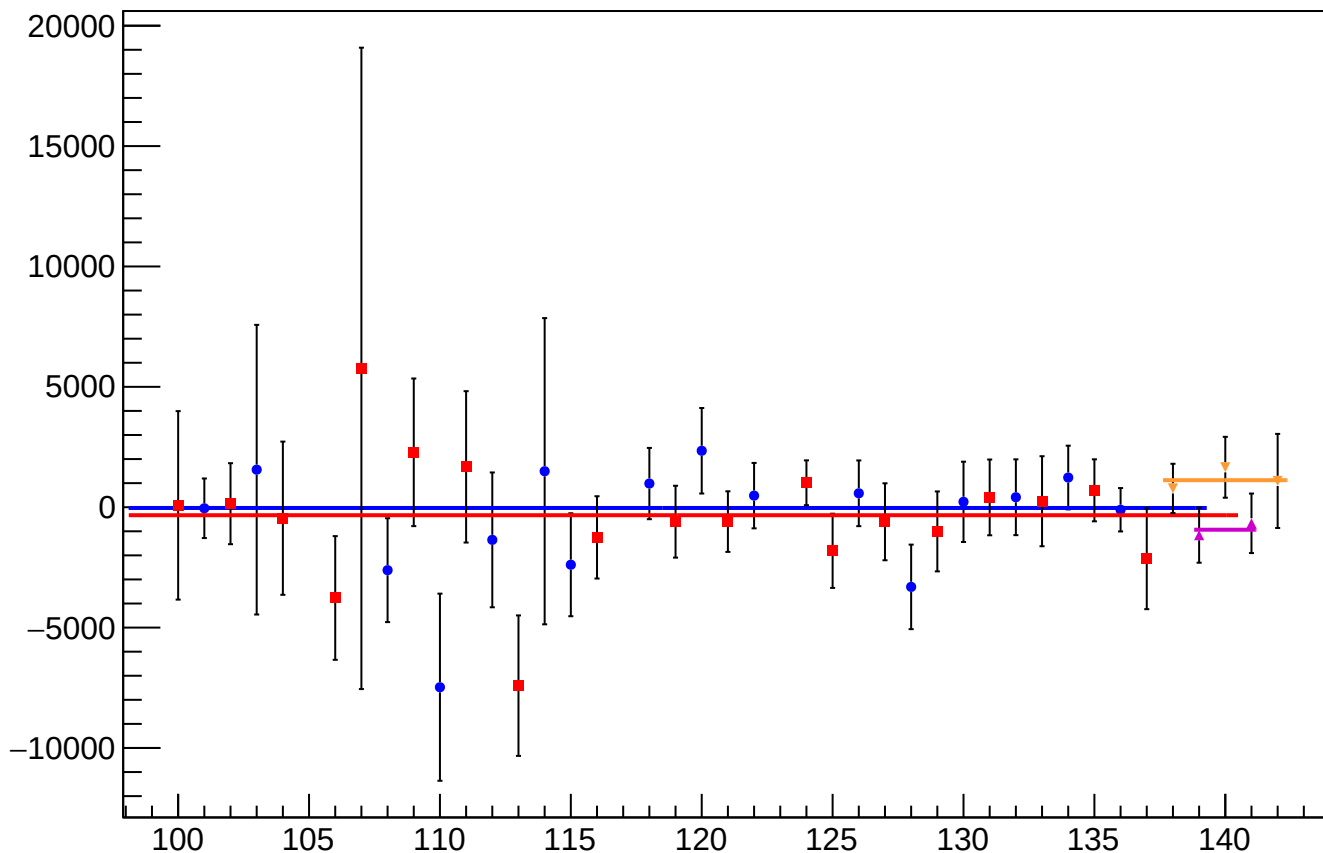
Right: 2593.583+/-0.484 χ^2/NDF : 776192.2/34

In: 2509.019+/-0.596 χ^2/NDF :238412.7/17

Out: 2577.390+/-0.599 χ^2/NDF :577103.1/21

All: 2543.034+/-0.422 χ^2/NDF : 822062.7/39

asym_atl1_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -31.253 ± 405.723 $\chi^2/\text{NDF}: 13.8/15$

Left Out: 1123.395 ± 736.181 $\chi^2/\text{NDF}: 0.3/2$

Right Out: -331.962 ± 399.334 $\chi^2/\text{NDF}: 14.4/18$

Left In: -934.483 ± 839.155 $\chi^2/\text{NDF}: 0.1/1$

Left: 228.400 ± 553.405 $\chi^2/\text{NDF}: 3.8/4$

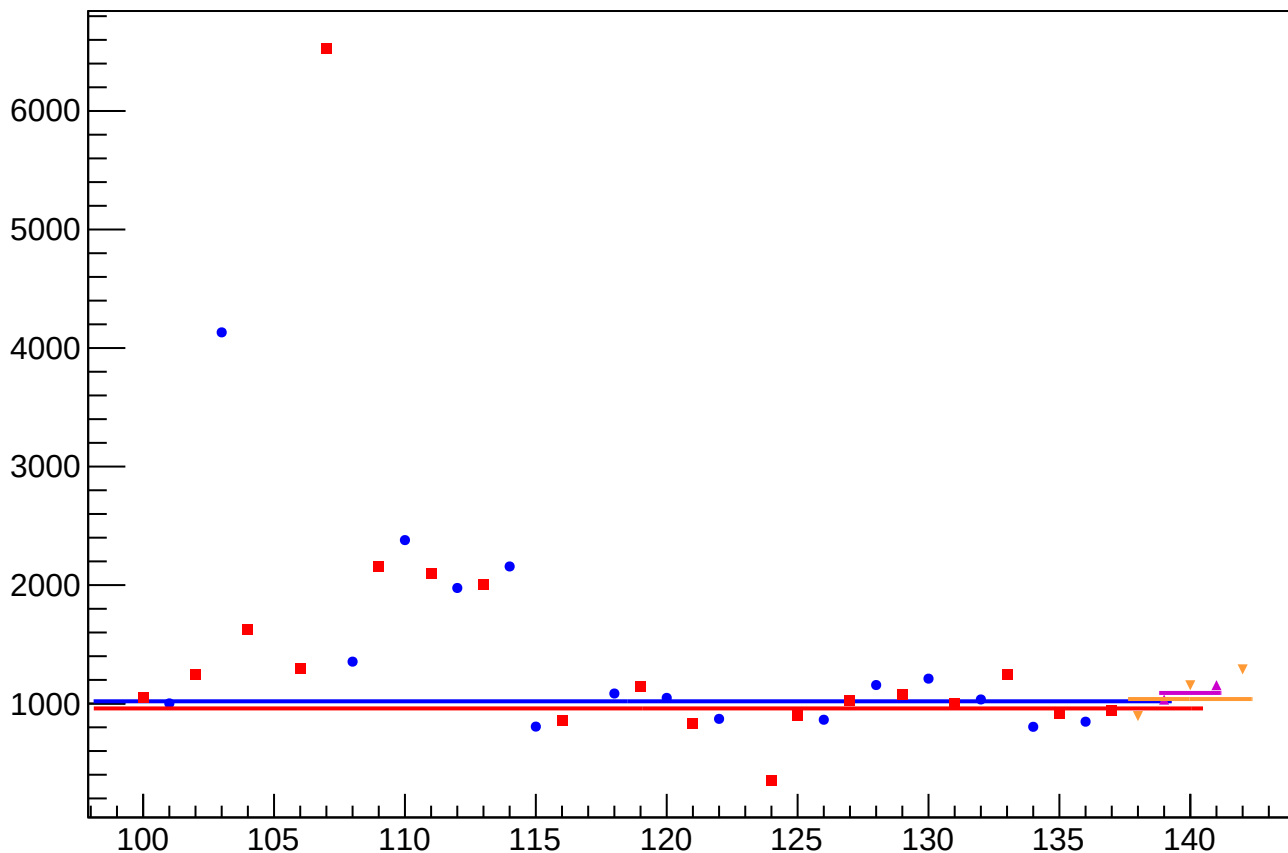
Right: -183.994 ± 284.604 $\chi^2/\text{NDF}: 28.5/34$

In: -202.389 ± 365.270 $\chi^2/\text{NDF}: 14.8/17$

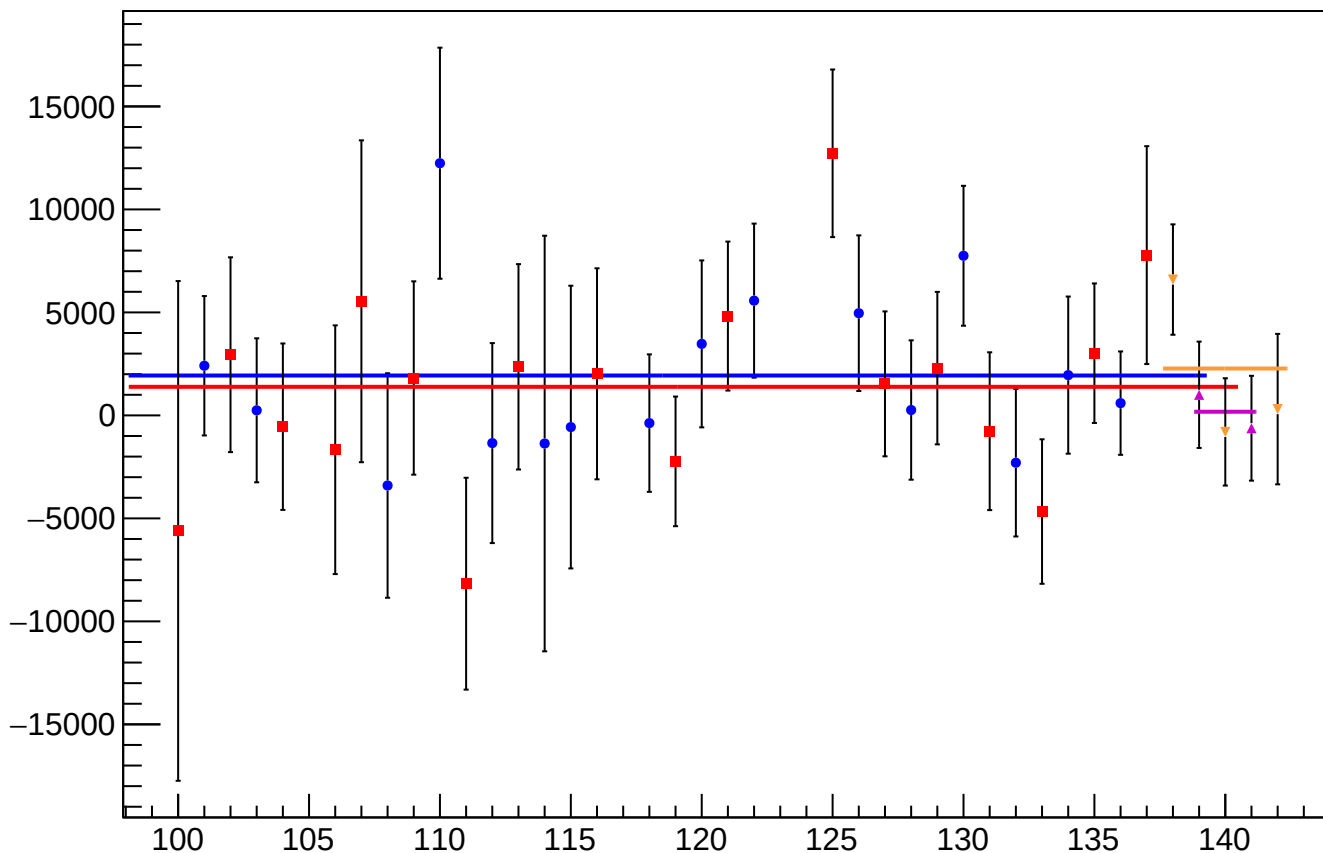
Out: -1.092 ± 351.017 $\chi^2/\text{NDF}: 17.7/21$

All: -97.737 ± 253.096 $\chi^2/\text{NDF}: 32.7/39$

asym_atl1_eigen_cor_correction_rms vs Slug, Sign Corrected



dit_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1935.992 $\pm$ 962.322 χ^2 /NDF: 12.4/15

Left Out: 2276.239 $\pm$ 1662.915 χ^2 /NDF:4.3/2

Right Out: 1387.548 $\pm$ 1009.105 χ^2 /NDF: 19.8/17

Left In: 176.863 $\pm$ 1812.283 χ^2 /NDF:0.2/1

Left: 1316.618 $\pm$ 1225.267 χ^2 /NDF: 5.2/4

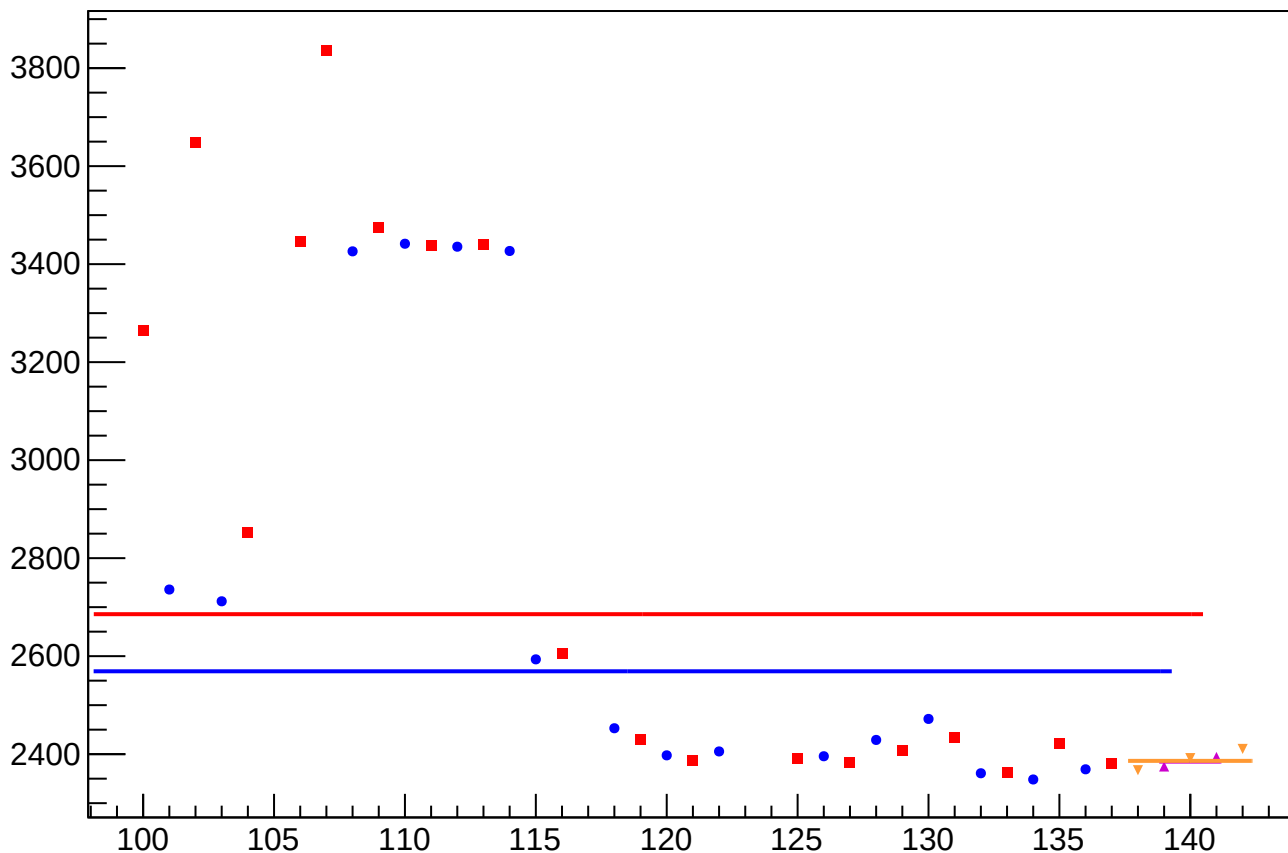
Right: 1674.777 $\pm$ 696.416 χ^2 /NDF: 32.3/33

In: 1549.080 $\pm$ 849.930 χ^2 /NDF:13.3/17

Out: 1626.725 $\pm$ 862.690 χ^2 /NDF:24.3/20

All: 1587.324 $\pm$ 605.452 χ^2 /NDF: 37.5/38

dit_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2569.130+/-0.680 χ^2/NDF : 229487.5/15

Left Out: 2386.320+/-1.176 χ^2/NDF :199.7/2

Right Out: 2685.675+/-0.714 χ^2/NDF : 419264.8/17

Left In: 2384.737+/-1.281 χ^2/NDF :57.7/1

Left: 2385.596+/-0.866 χ^2/NDF : 258.2/4

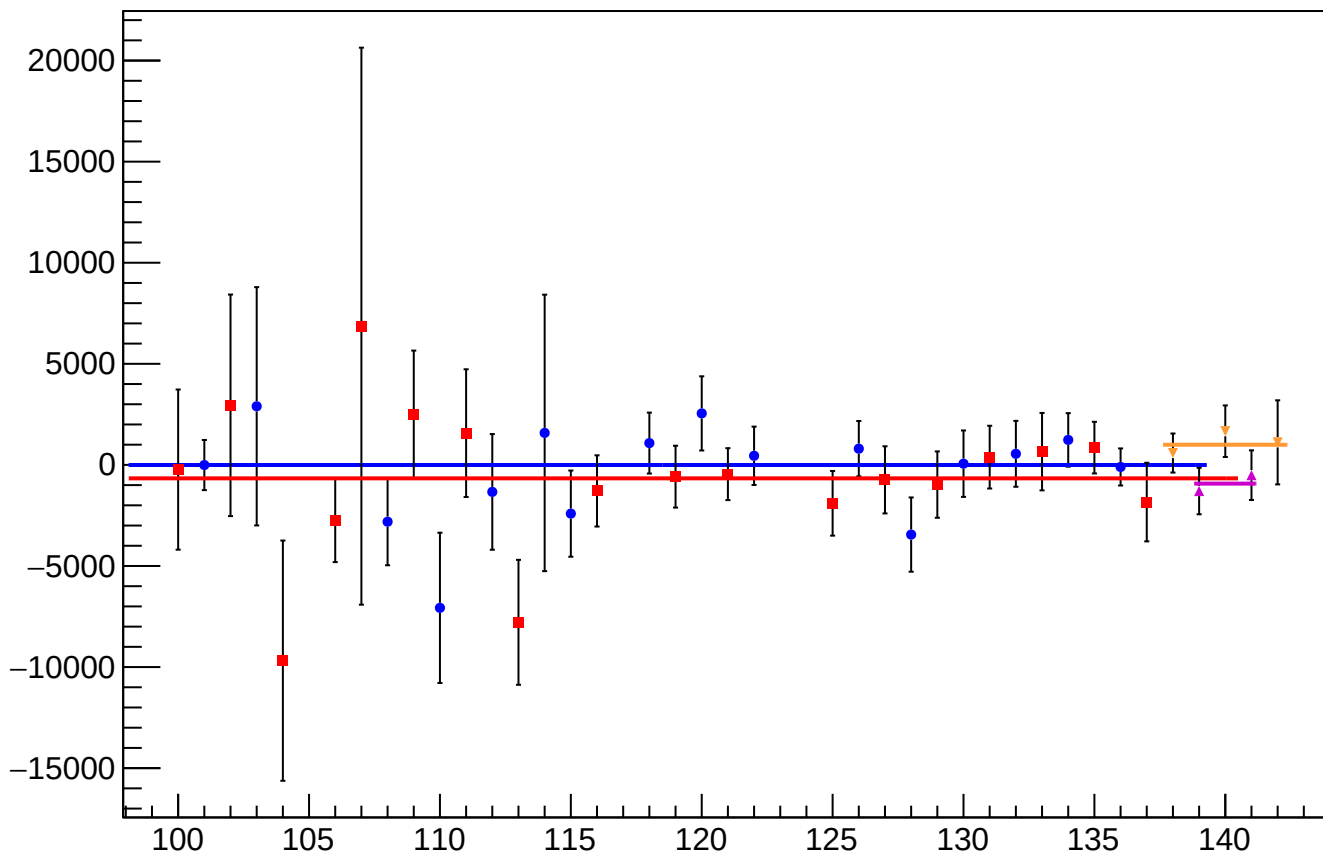
Right: 2624.638+/-0.492 χ^2/NDF : 662723.7/33

In: 2528.574+/-0.601 χ^2/NDF :245696.0/17

Out: 2605.108+/-0.610 χ^2/NDF :466834.0/20

All: 2566.270+/-0.428 χ^2/NDF : 720517.7/38

asym_atl1_dit_correction_mean vs Slug, Sign Corrected



Right In: -5.169 ± 412.248 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 996.582 ± 722.184 $\chi^2/\text{NDF}: 0.5/2$

Right Out: -665.952 ± 460.513 $\chi^2/\text{NDF}: 14.4/17$

Left In: -925.971 ± 839.469 $\chi^2/\text{NDF}: 0.2/1$

Left: 178.886 ± 547.471 $\chi^2/\text{NDF}: 3.7/4$

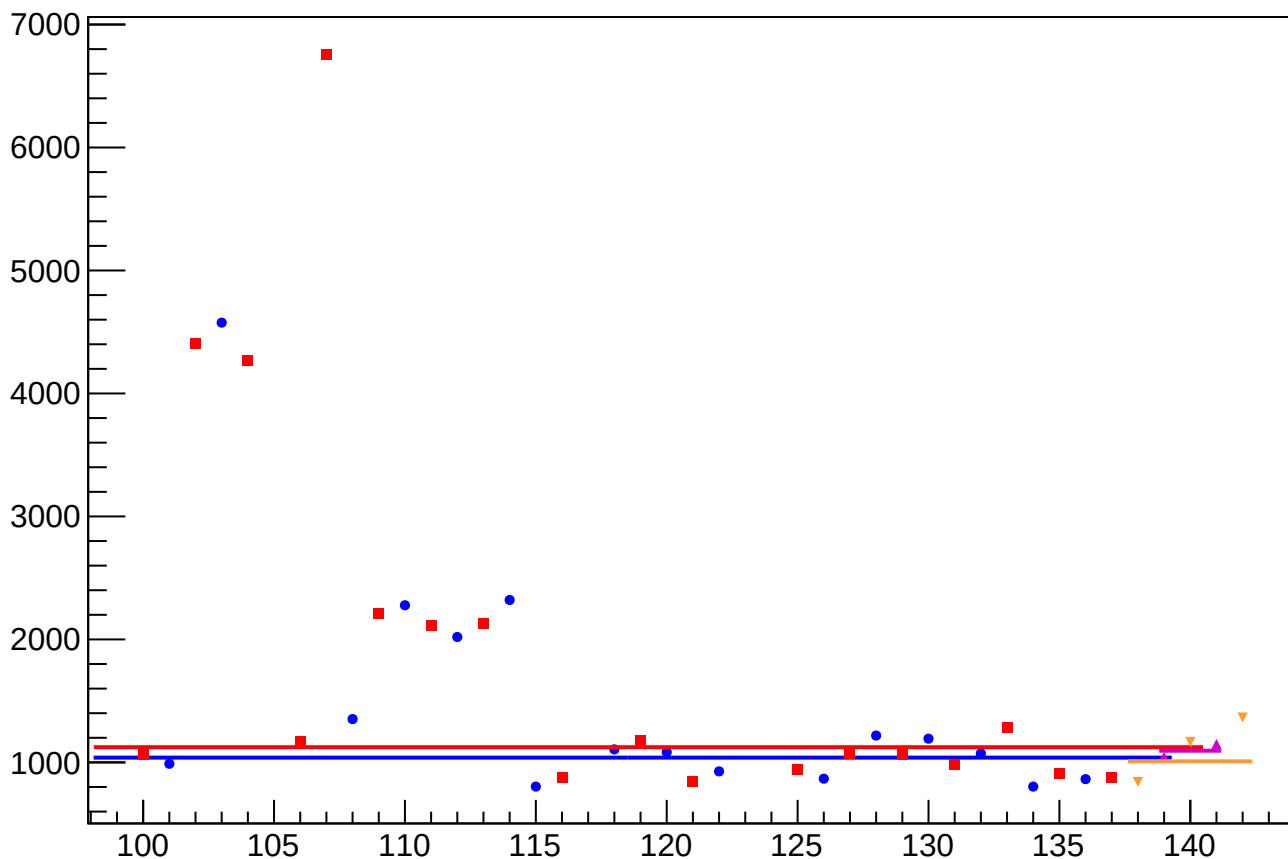
Right: -299.130 ± 307.154 $\chi^2/\text{NDF}: 30.0/33$

In: -184.083 ± 370.036 $\chi^2/\text{NDF}: 15.7/17$

Out: -185.354 ± 388.287 $\chi^2/\text{NDF}: 18.6/20$

All: -184.688 ± 267.875 $\chi^2/\text{NDF}: 34.3/38$

asym_atl1_dit_correction_rms vs Slug, Sign Corrected



Right In: 1038.803+/-0.292 χ^2/NDF : 1539731.1/15

Left Out: 1008.422+/-0.511 χ^2/NDF : 149396.6/2

Right Out: 1123.474+/-0.326 χ^2/NDF : 2535511.7/17

Left In: 1095.051+/-0.594 χ^2/NDF : 7688.1/1

Left: 1045.267+/-0.387 χ^2/NDF : 169324.3/4

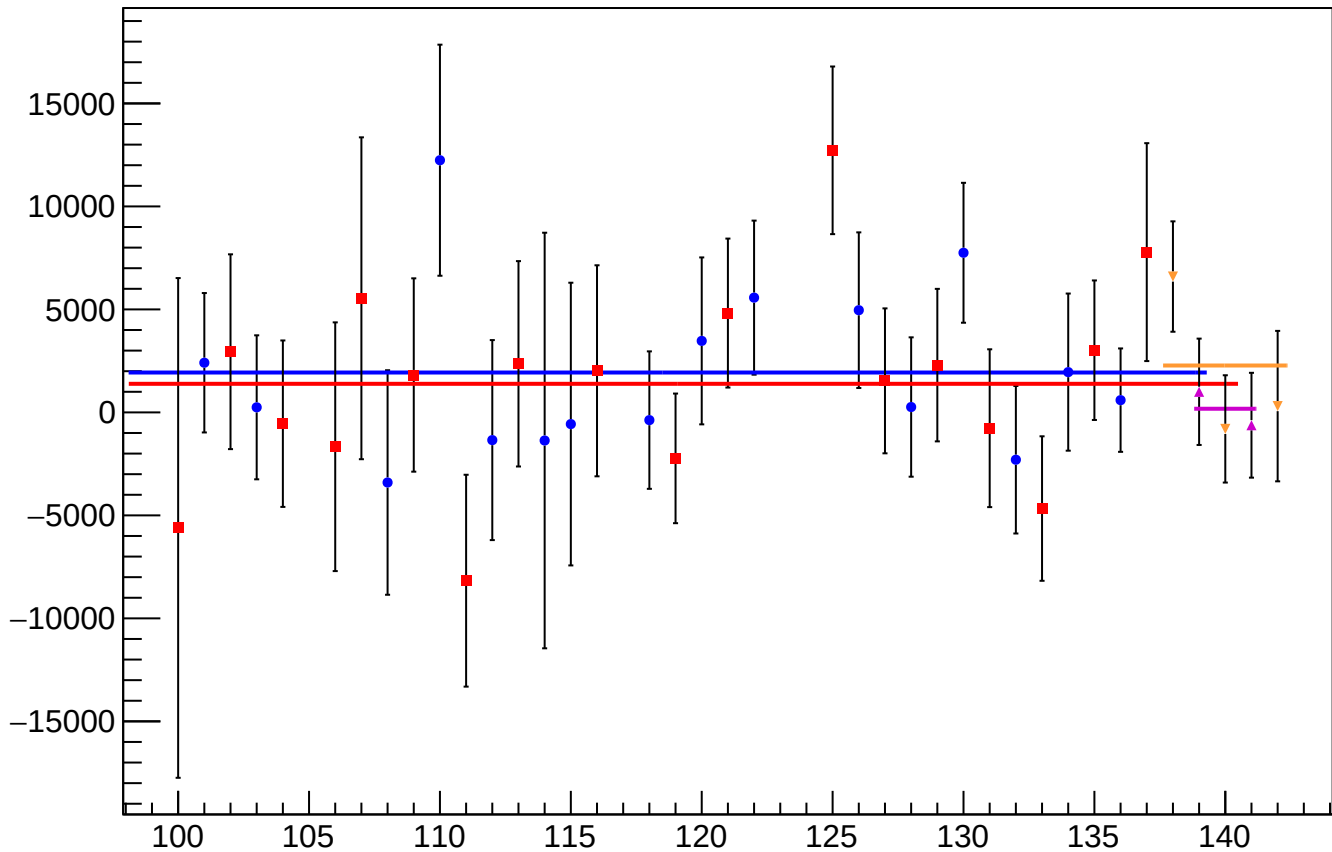
Right: 1076.470+/-0.217 χ^2/NDF : 4112776.2/33

In: 1049.732+/-0.262 χ^2/NDF : 1554653.7/17

Out: 1090.216+/-0.275 χ^2/NDF : 2720994.8/20

All: 1069.000+/-0.189 χ^2/NDF : 4287042.0/38

eigen_dit_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1935.988 $\pm$ 962.322 χ^2 /NDF: 12.4/15

Left Out: 2276.241 $\pm$ 1662.915 χ^2 /NDF:4.3/2

Right Out: 1387.545 $\pm$ 1009.105 χ^2 /NDF: 19.8/17

Left In: 176.862 $\pm$ 1812.283 χ^2 /NDF:0.2/1

Left: 1316.619 $\pm$ 1225.267 χ^2 /NDF: 5.2/4

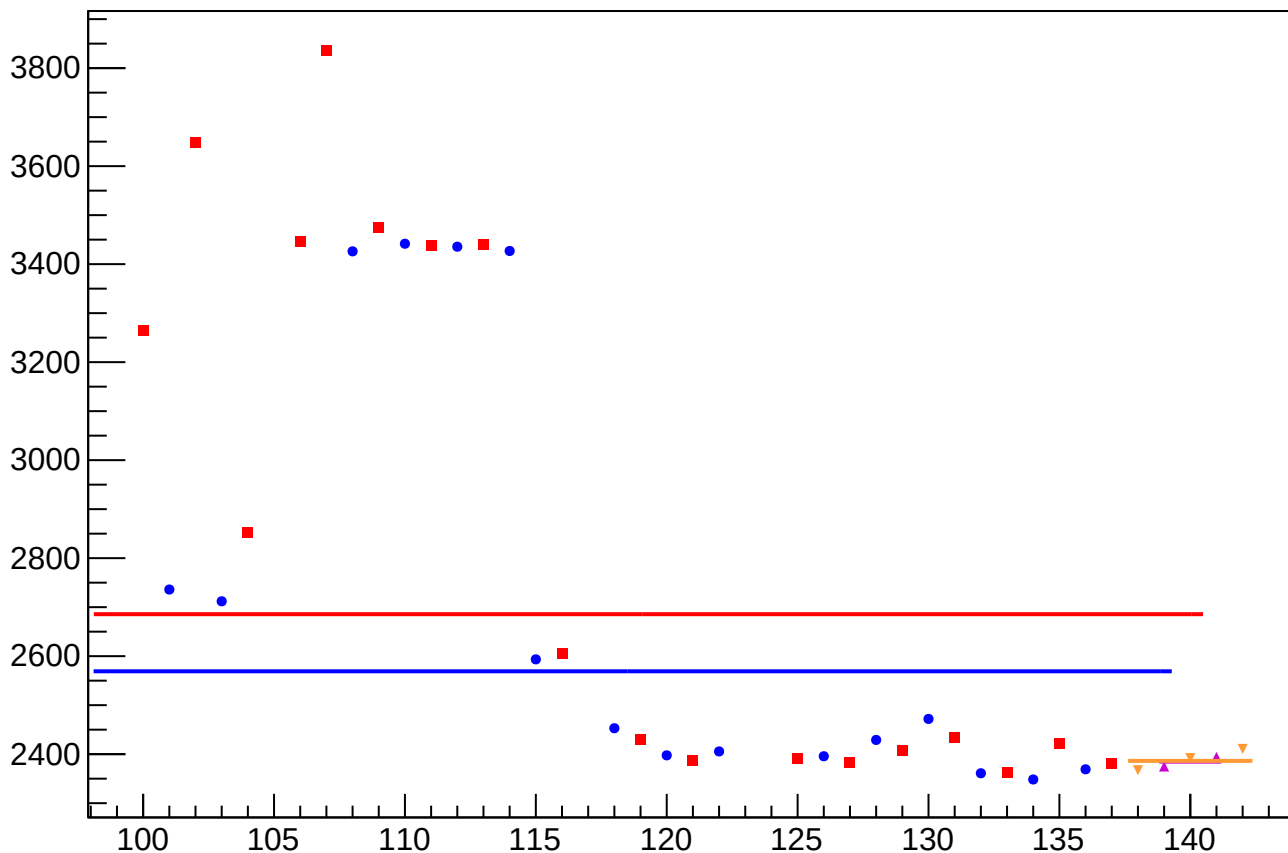
Right: 1674.774 $\pm$ 696.416 χ^2 /NDF: 32.3/33

In: 1549.077 $\pm$ 849.930 χ^2 /NDF:13.3/17

Out: 1626.724 $\pm$ 862.690 χ^2 /NDF:24.3/20

All: 1587.322 $\pm$ 605.452 χ^2 /NDF: 37.5/38

eigen_dit_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2569.130+/-0.680 χ^2/NDF : 229487.3/15

Left Out: 2386.320+/-1.176 χ^2/NDF : 199.7/2

Right Out: 2685.674+/-0.714 χ^2/NDF : 419264.2/17

Left In: 2384.737+/-1.281 χ^2/NDF : 57.7/1

Left: 2385.596+/-0.866 χ^2/NDF : 258.2/4

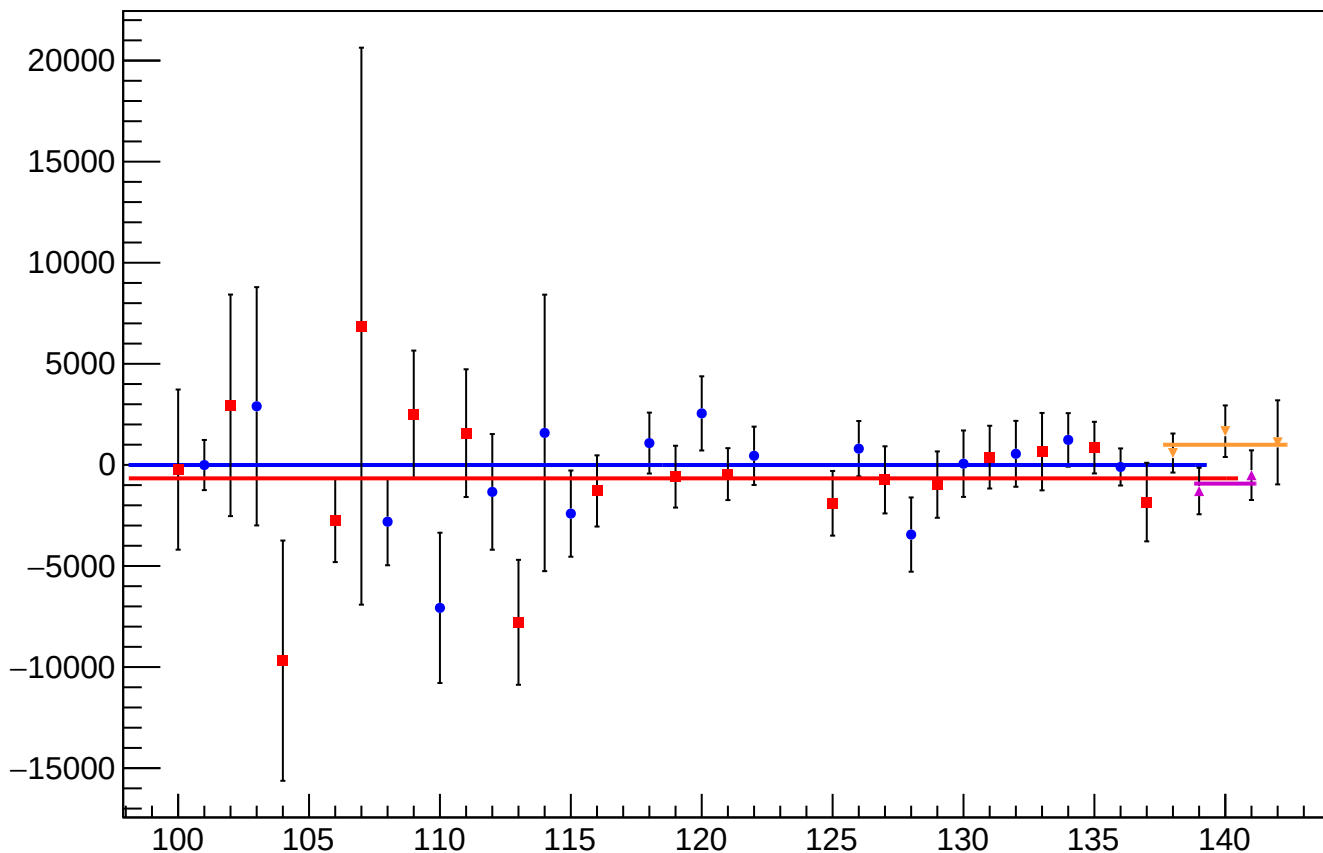
Right: 2624.638+/-0.492 χ^2/NDF : 662722.8/33

In: 2528.573+/-0.601 χ^2/NDF : 245695.7/17

Out: 2605.108+/-0.610 χ^2/NDF : 466833.2/20

All: 2566.270+/-0.428 χ^2/NDF : 720516.7/38

asym_atl1_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -5.172 ± 412.248 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 996.584 ± 722.184 $\chi^2/\text{NDF}: 0.5/2$

Right Out: -665.953 ± 460.513 $\chi^2/\text{NDF}: 14.4/17$

Left In: -925.974 ± 839.470 $\chi^2/\text{NDF}: 0.2/1$

Left: 178.886 ± 547.472 $\chi^2/\text{NDF}: 3.7/4$

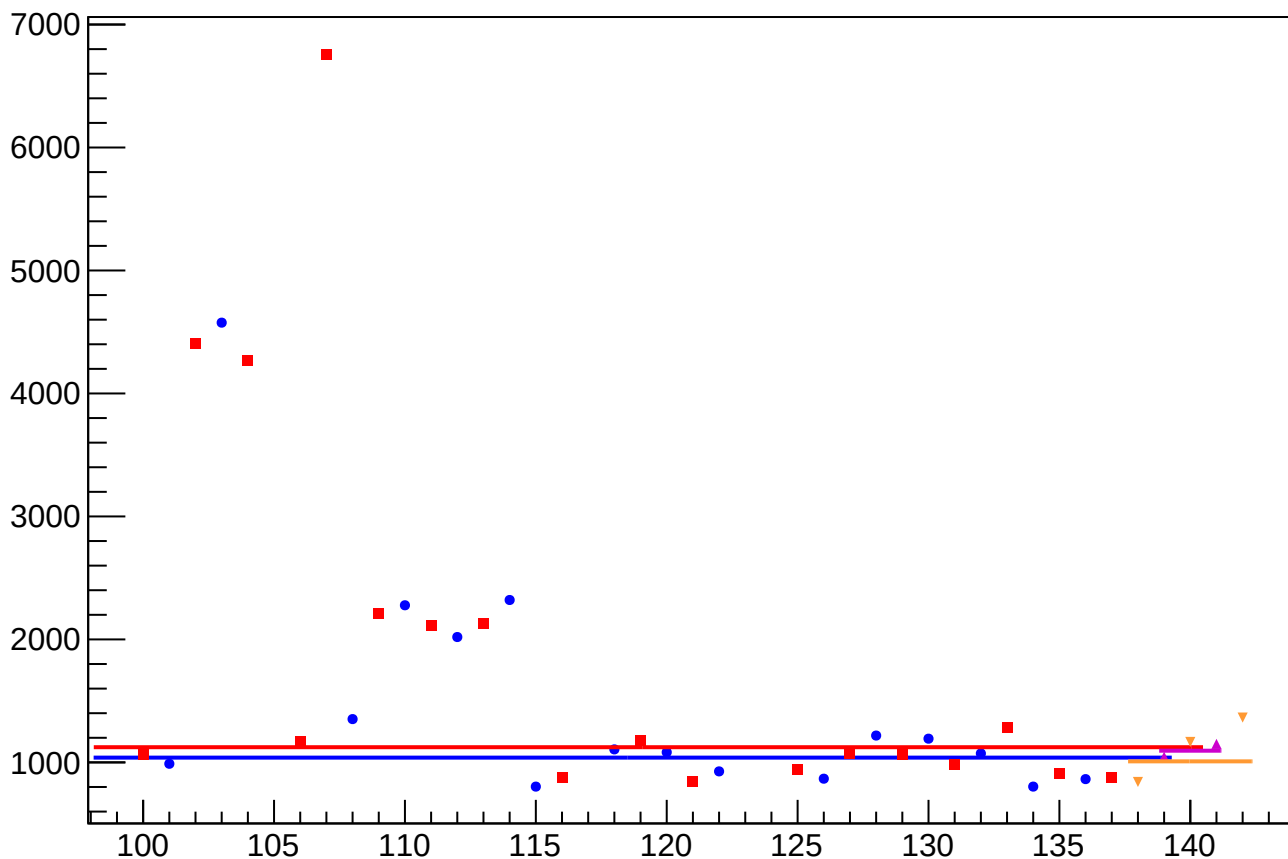
Right: -299.132 ± 307.154 $\chi^2/\text{NDF}: 30.0/33$

In: -184.086 ± 370.036 $\chi^2/\text{NDF}: 15.7/17$

Out: -185.355 ± 388.287 $\chi^2/\text{NDF}: 18.6/20$

All: -184.690 ± 267.875 $\chi^2/\text{NDF}: 34.3/38$

asym_atl1_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1038.804+/-0.292 χ^2/NDF : 1539724.8/15

Left Out: 1008.423+/-0.511 χ^2/NDF : 149397.4/2

Right Out: 1123.474+/-0.326 χ^2/NDF : 2535509.9/17

Left In: 1095.052+/-0.594 χ^2/NDF : 7688.2/1

Left: 1045.268+/-0.387 χ^2/NDF : 169325.3/4

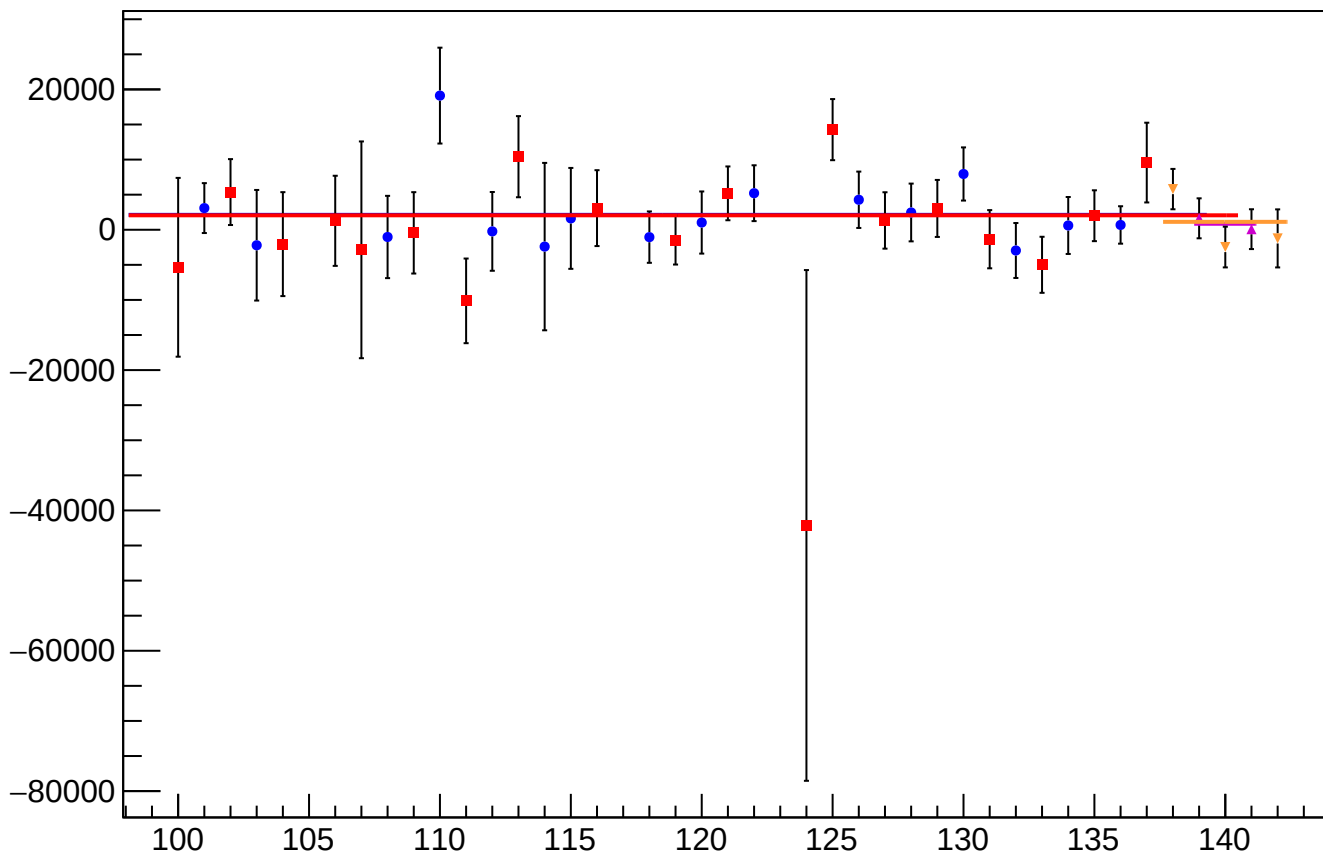
Right: 1076.471+/-0.217 χ^2/NDF : 4112767.4/33

In: 1049.733+/-0.262 χ^2/NDF : 1554647.5/17

Out: 1090.216+/-0.275 χ^2/NDF : 2720993.4/20

All: 1069.000+/-0.189 χ^2/NDF : 4287034.1/38

asym_atl1_mean vs Slug, Sign Corrected



Right In: 2121.991+/-1084.700 χ^2/NDF : 13.4/15

Left Out: 1128.346+/-1831.605 χ^2/NDF : 4.5/2

Right Out: 2059.741+/-1136.807 χ^2/NDF : 24.3/18

Left In: 854.702+/-2010.360 χ^2/NDF : 0.1/1

Left: 1004.228+/-1353.935 χ^2/NDF : 4.6/4

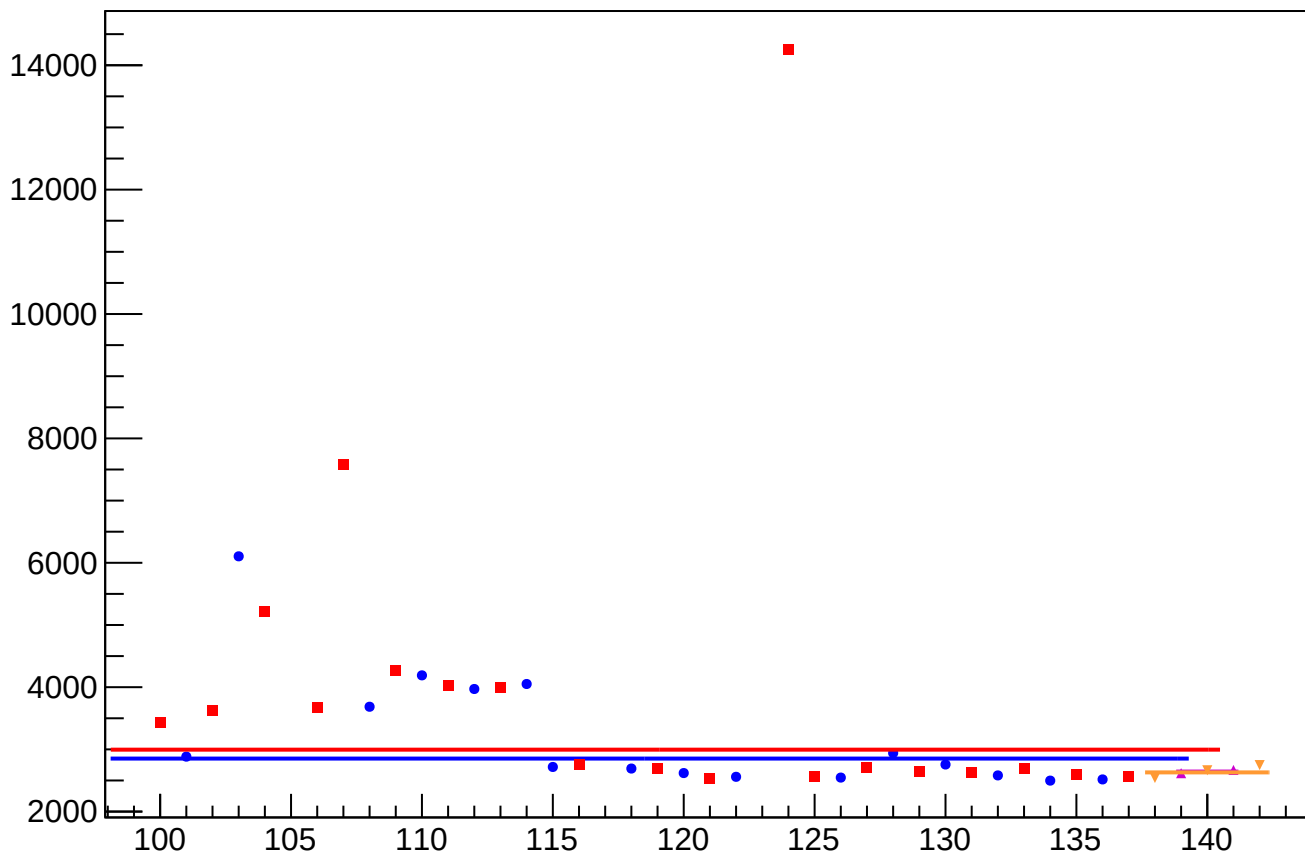
Right: 2092.326+/-784.773 χ^2/NDF : 37.7/34

In: 1836.245+/-954.611 χ^2/NDF : 13.8/17

Out: 1800.726+/-965.889 χ^2/NDF : 29.0/21

All: 1818.694+/-678.964 χ^2/NDF : 42.8/39

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2852.206+/-0.767 χ^2/NDF : 648715.2/15

Left Out: 2629.976+/-1.295 χ^2/NDF : 3833.8/2

Right Out: 2995.525+/-0.804 χ^2/NDF : 979168.6/18

Left In: 2643.379+/-1.422 χ^2/NDF : 334.3/1

Left: 2636.055+/-0.957 χ^2/NDF : 4216.7/4

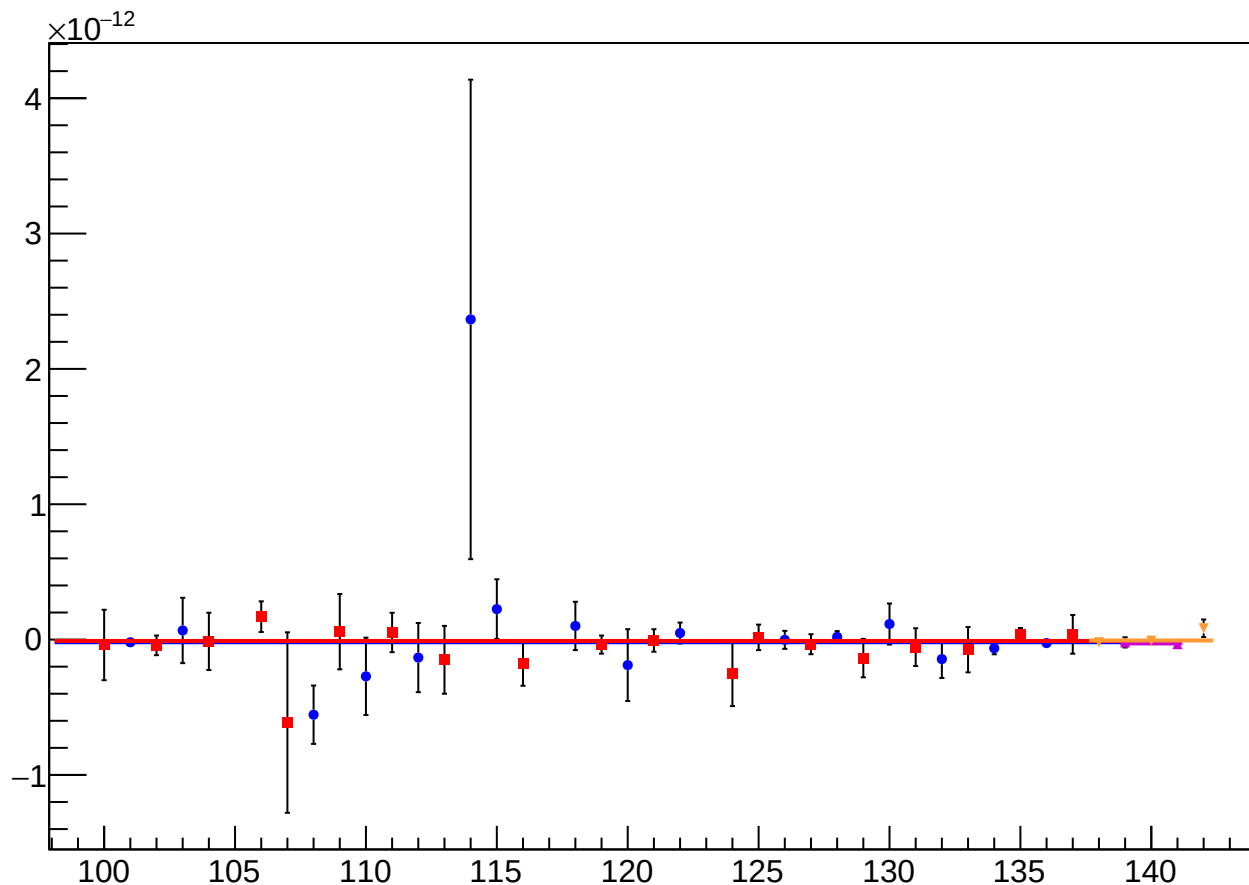
Right: 2920.506+/-0.555 χ^2/NDF : 1644523.2/34

In: 2805.120+/-0.675 χ^2/NDF : 665763.9/17

Out: 2893.868+/-0.683 χ^2/NDF : 1040512.0/21

All: 2848.973+/-0.480 χ^2/NDF : 1714817.5/39

asym_atl1_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 15.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 2.2/2

Right Out: -0.000+/-0.000 χ^2/NDF : 8.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.1/1

Left: -0.000+/-0.000 χ^2/NDF : 2.8/4

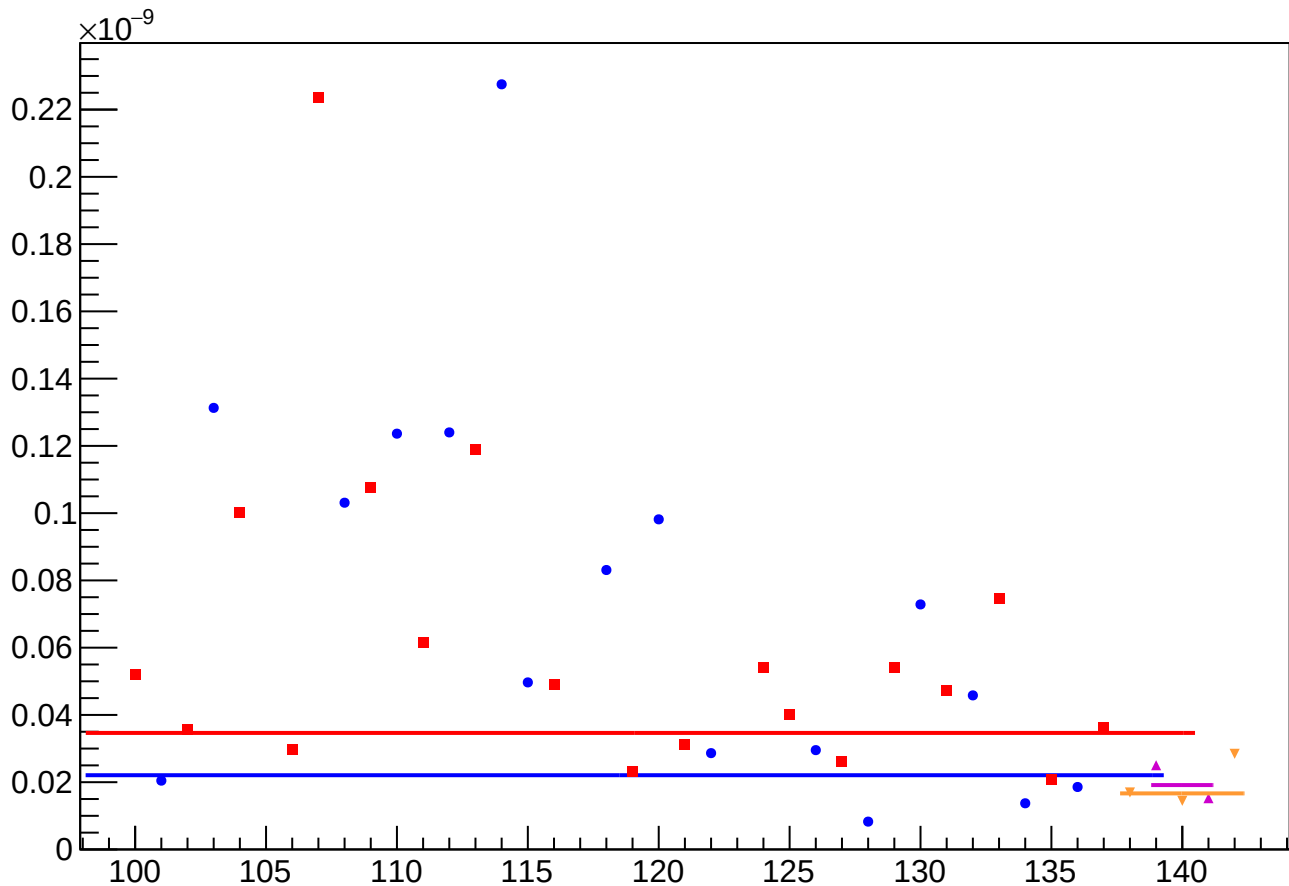
Right: -0.000+/-0.000 χ^2/NDF : 23.8/34

In: -0.000+/-0.000 χ^2/NDF : 15.6/17

Out: -0.000+/-0.000 χ^2/NDF : 10.5/21

All: -0.000+/-0.000 χ^2/NDF : 26.6/39

asym_atl1_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2344133.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 80040.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1242991.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 81547.5/1

Left: 0.000+/-0.000 χ^2/NDF : 175488.0/4

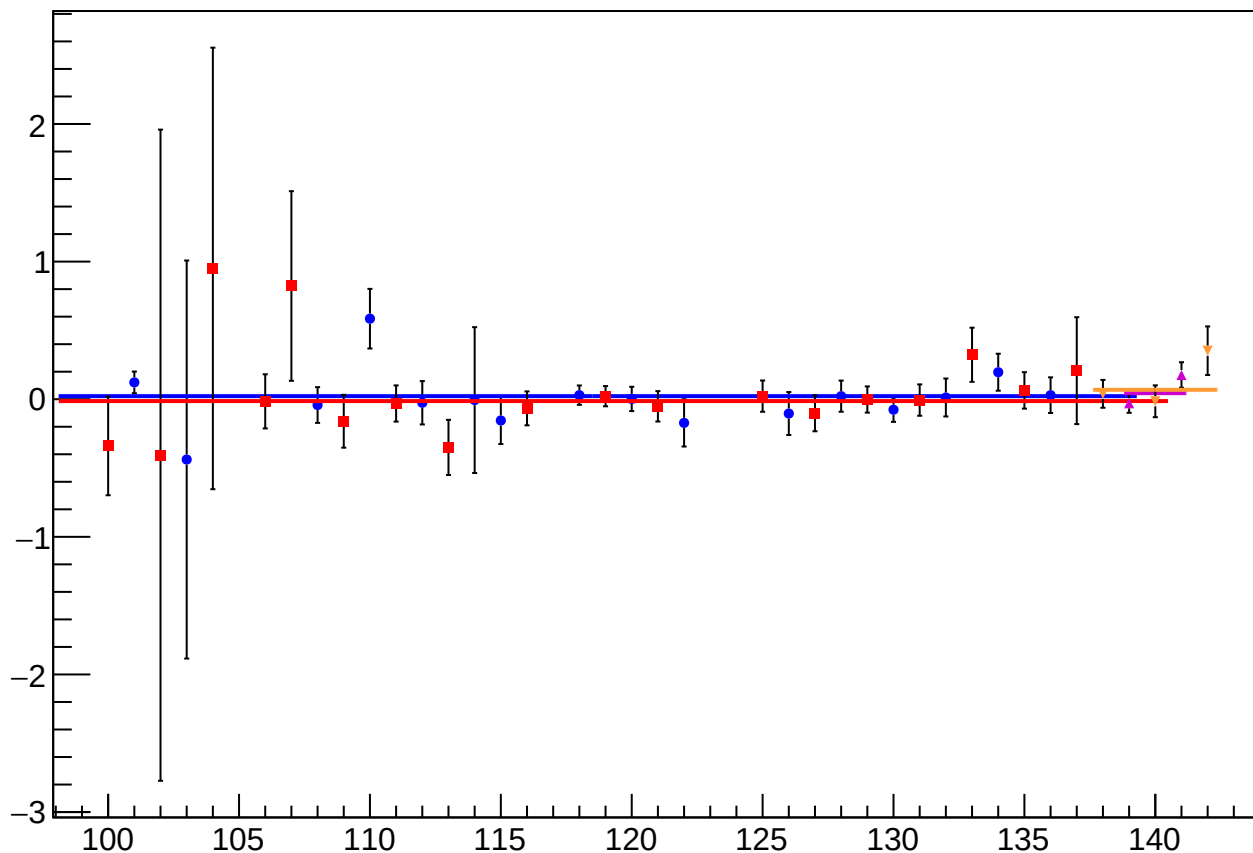
Right: 0.000+/-0.000 χ^2/NDF : 3942150.2/34

In: 0.000+/-0.000 χ^2/NDF : 2445710.6/17

Out: 0.000+/-0.000 χ^2/NDF : 2029580.0/21

All: 0.000+/-0.000 χ^2/NDF : 4492374.2/39

asym_atl1_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.030 χ^2 /NDF: 14.8/15

Left Out: 0.068 $\pm$ 0.070 χ^2 /NDF:3.2/2

Right Out: -0.013 $\pm$ 0.033 χ^2 /NDF: 10.8/17

Left In: 0.044 $\pm$ 0.055 χ^2 /NDF:3.2/1

Left: 0.054 $\pm$ 0.043 χ^2 /NDF: 6.4/4

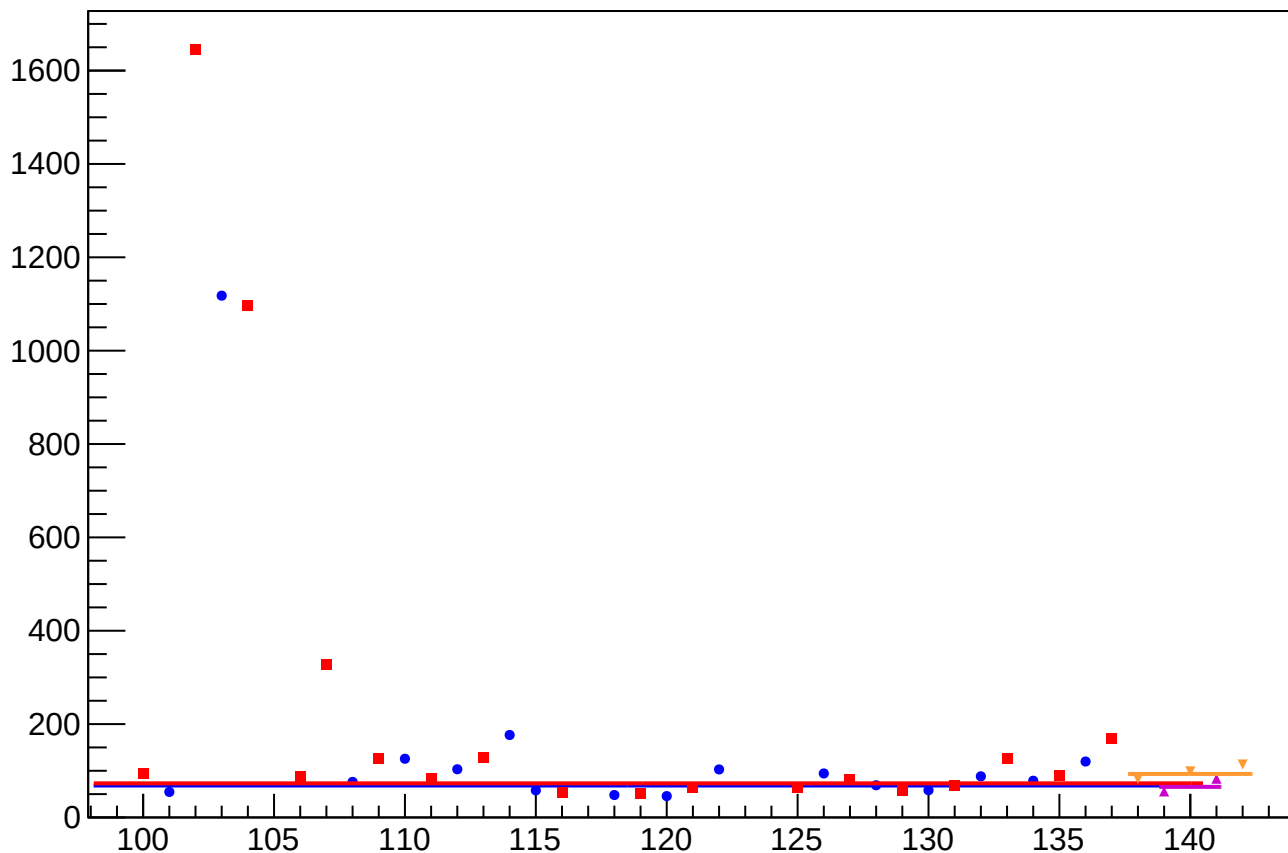
Right: 0.006 $\pm$ 0.022 χ^2 /NDF: 26.3/33

In: 0.027 $\pm$ 0.026 χ^2 /NDF:18.1/17

Out: 0.002 $\pm$ 0.030 χ^2 /NDF:15.1/20

All: 0.016 $\pm$ 0.020 χ^2 /NDF: 33.6/38

asym_atl1_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 68.429 $\pm$ 0.021 χ^2 /NDF: 2278083.9/15

Left Out: 93.211 $\pm$ 0.049 χ^2 /NDF: 53220.2/2

Right Out: 73.072 $\pm$ 0.024 χ^2 /NDF: 2913147.6/17

Left In: 65.542 $\pm$ 0.039 χ^2 /NDF: 110421.2/1

Left: 76.233 $\pm$ 0.031 χ^2 /NDF: 355845.4/4

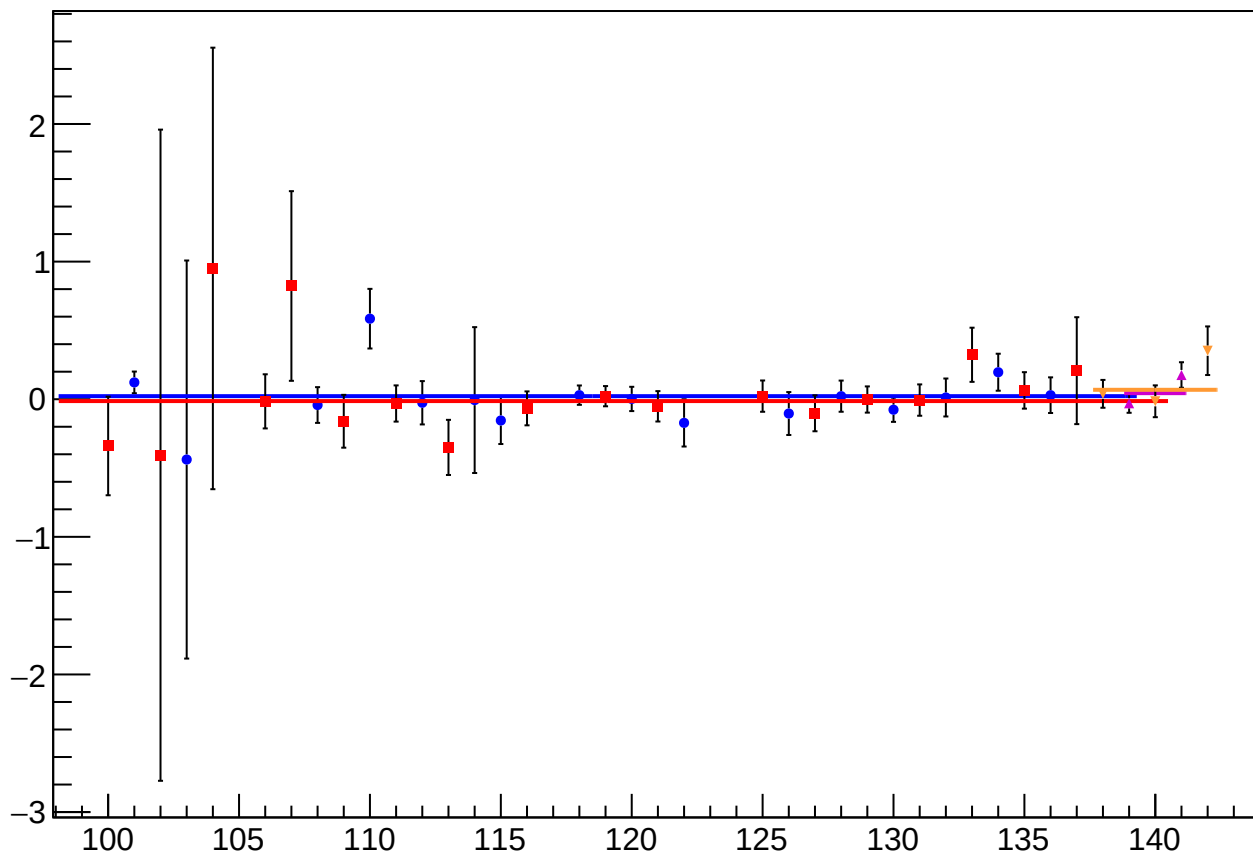
Right: 70.509 $\pm$ 0.016 χ^2 /NDF: 5212470.4/33

In: 67.771 $\pm$ 0.019 χ^2 /NDF: 2392687.7/17

Out: 76.828 $\pm$ 0.021 χ^2 /NDF: 3101354.2/20

All: 71.710 $\pm$ 0.014 χ^2 /NDF: 5595727.9/38

asym_atl1_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022+/-0.030 χ^2/NDF : 14.8/15

Left Out: 0.068+/-0.070 χ^2/NDF : 3.2/2

Right Out: -0.013+/-0.033 χ^2/NDF : 10.8/17

Left In: 0.044+/-0.055 χ^2/NDF : 3.2/1

Left: 0.054+/-0.043 χ^2/NDF : 6.4/4

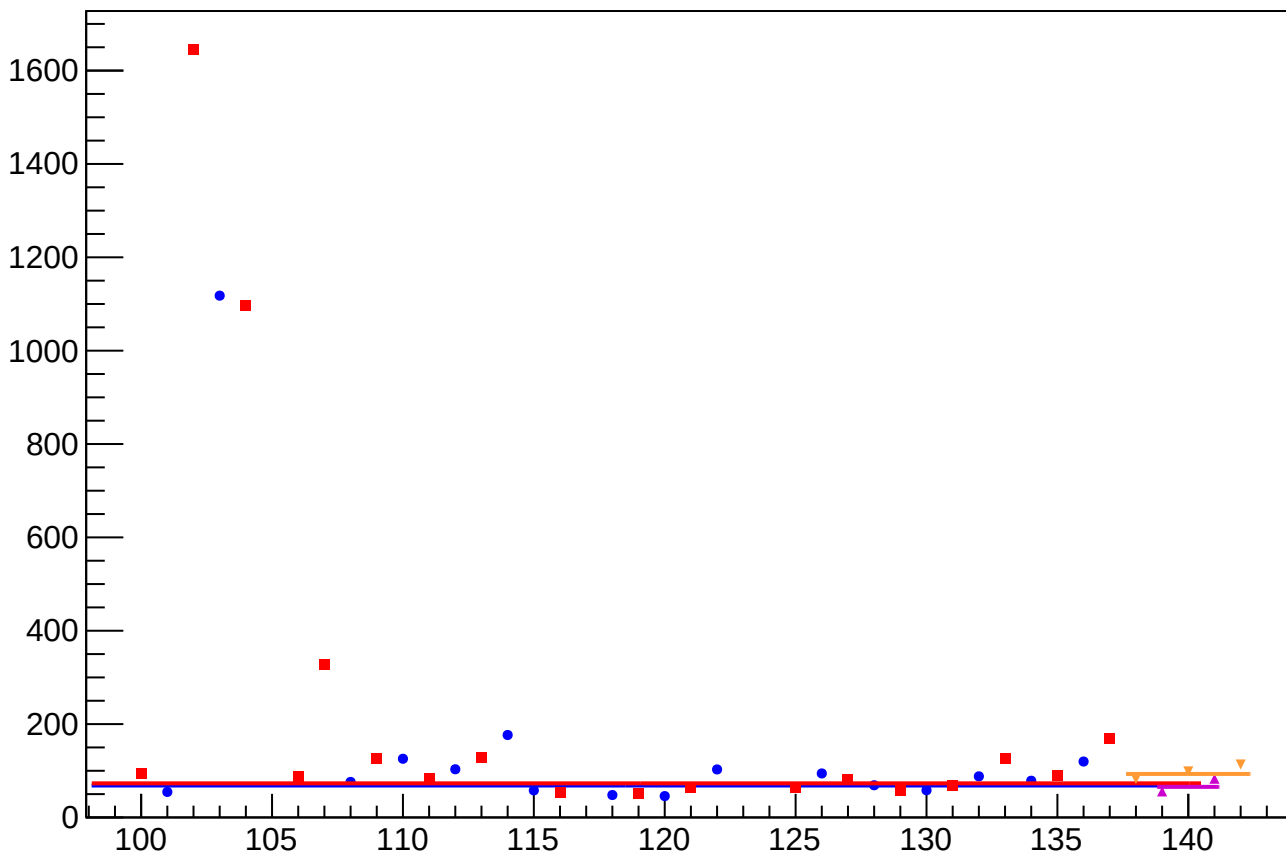
Right: 0.006+/-0.022 χ^2/NDF : 26.3/33

In: 0.027+/-0.026 χ^2/NDF : 18.1/17

Out: 0.002+/-0.030 χ^2/NDF : 15.1/20

All: 0.016+/-0.020 χ^2/NDF : 33.6/38

asym_atl1_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 68.429+/-0.021 χ^2/NDF : 2278083.9/15

Left Out: 93.211+/-0.049 χ^2/NDF : 53220.2/2

Right Out: 73.072+/-0.024 χ^2/NDF : 2913147.6/17

Left In: 65.542+/-0.039 χ^2/NDF : 110421.2/1

Left: 76.233+/-0.031 χ^2/NDF : 355845.4/4

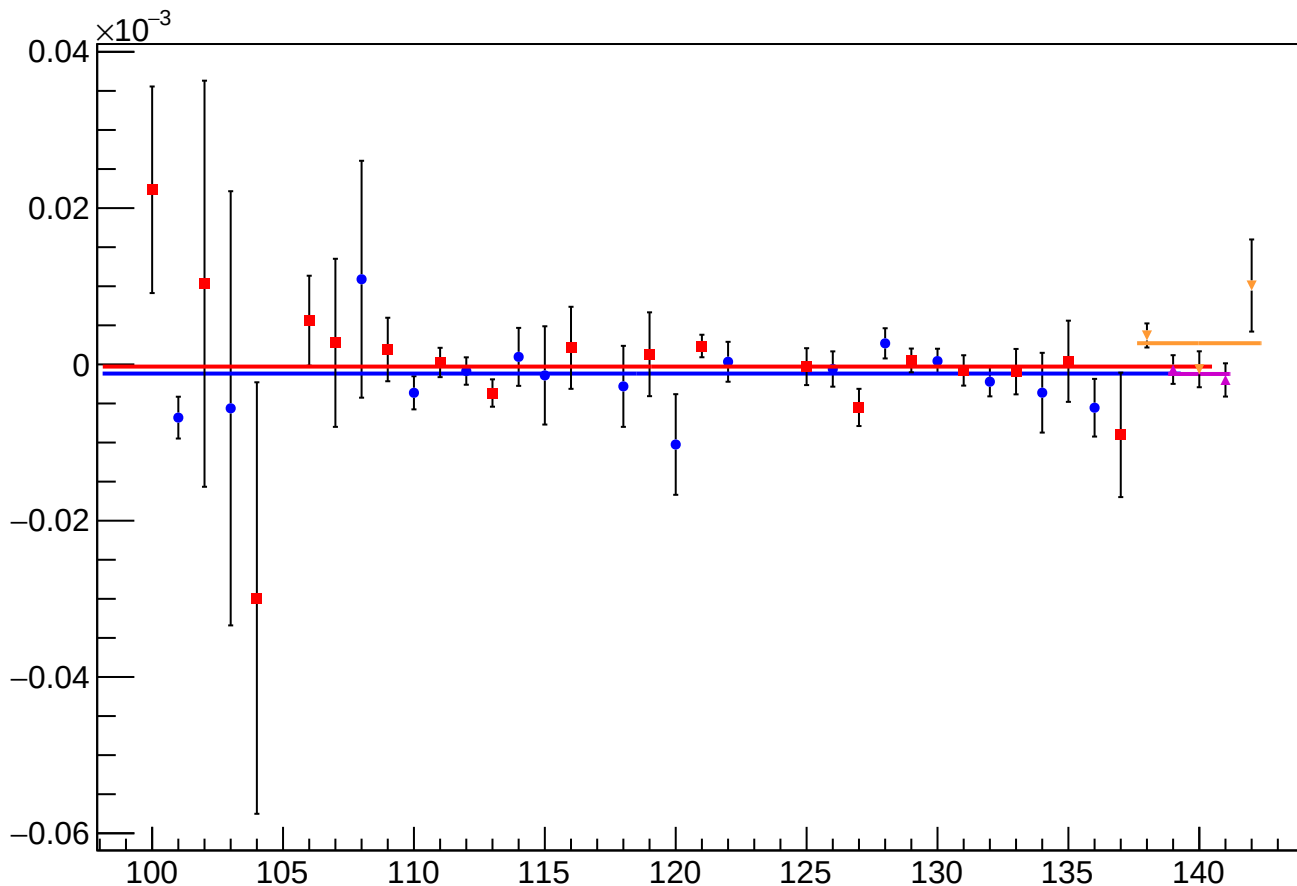
Right: 70.509+/-0.016 χ^2/NDF : 5212470.4/33

In: 67.771+/-0.019 χ^2/NDF : 2392687.7/17

Out: 76.828+/-0.021 χ^2/NDF : 3101354.2/20

All: 71.710+/-0.014 χ^2/NDF : 5595727.9/38

asym_atl1_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 4.1/2

Right Out: -0.000+/-0.000 χ^2/NDF : 19.5/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.2/1

Left: 0.000+/-0.000 χ^2/NDF : 8.7/4

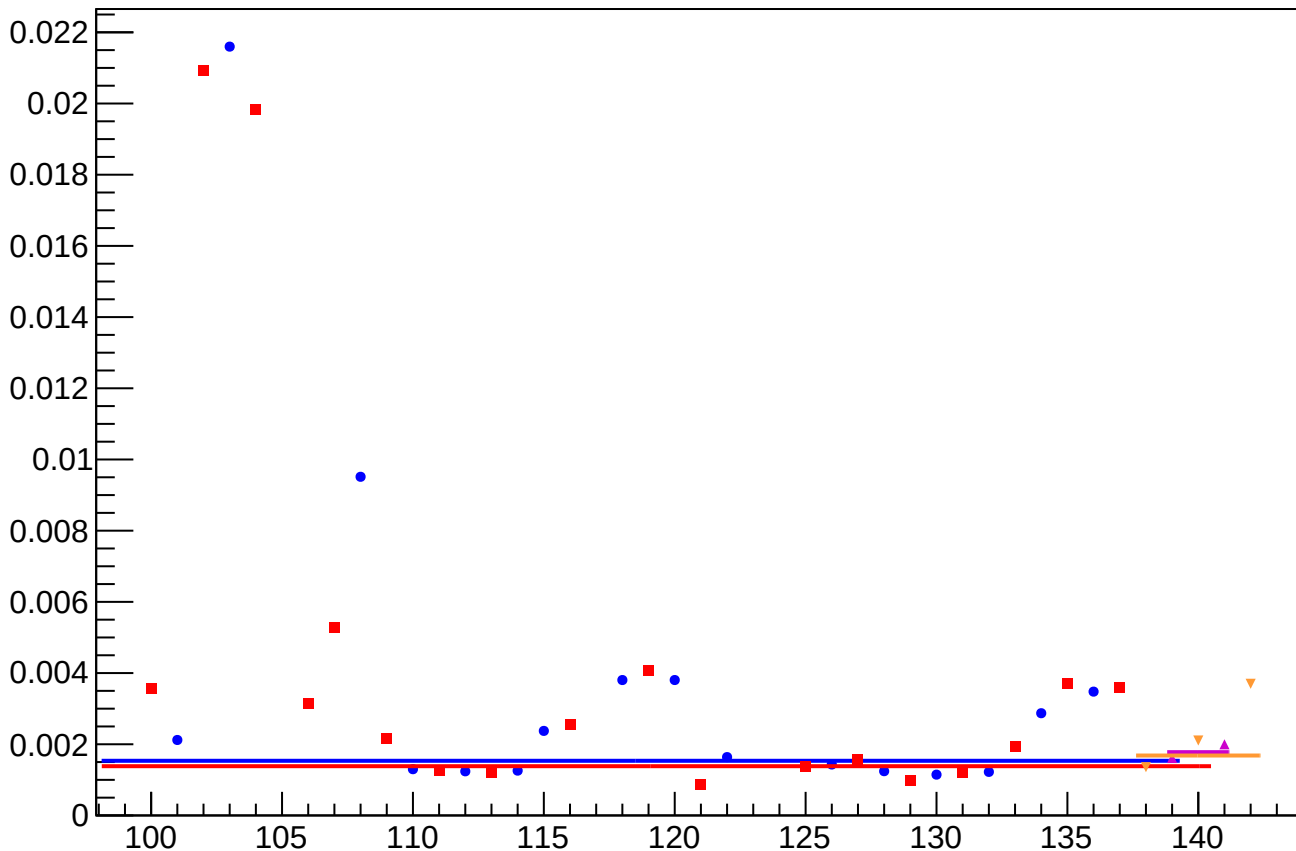
Right: -0.000+/-0.000 χ^2/NDF : 36.8/33

In: -0.000+/-0.000 χ^2/NDF : 16.5/17

Out: 0.000+/-0.000 χ^2/NDF : 28.2/20

All: -0.000+/-0.000 χ^2/NDF : 48.1/38

asym_atl1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3373907.9/15

Left Out: 0.002+/-0.000 χ^2/NDF :391082.6/2

Right Out: 0.001+/-0.000 χ^2/NDF : 4269081.2/17

Left In: 0.002+/-0.000 χ^2/NDF :37535.7/1

Left: 0.002+/-0.000 χ^2/NDF : 433719.2/4

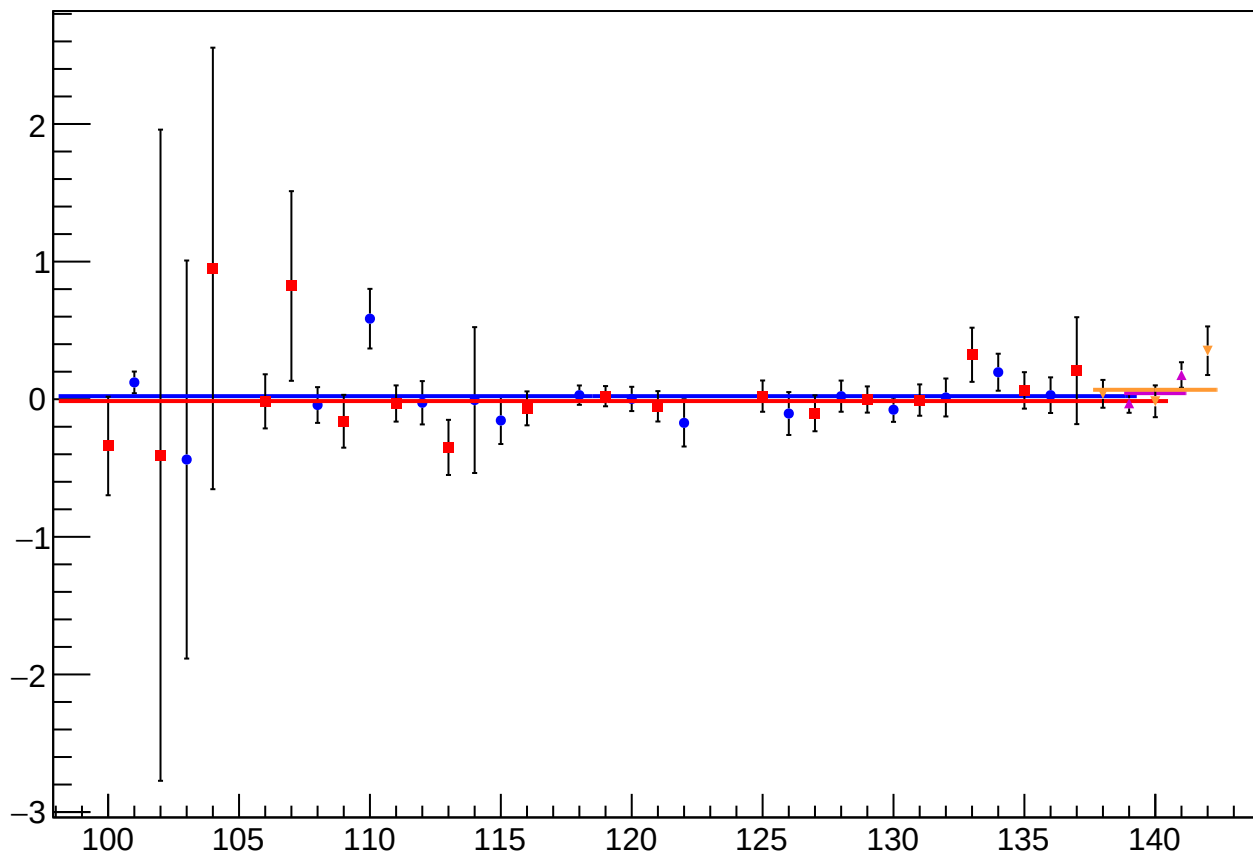
Right: 0.001+/-0.000 χ^2/NDF : 7697891.2/33

In: 0.002+/-0.000 χ^2/NDF :3460950.8/17

Out: 0.001+/-0.000 χ^2/NDF :4751704.0/20

All: 0.002+/-0.000 χ^2/NDF : 8267133.2/38

asym_atl1_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.030 χ^2 /NDF: 14.8/15

Left Out: 0.068 $\pm$ 0.070 χ^2 /NDF:3.2/2

Right Out: -0.013 $\pm$ 0.033 χ^2 /NDF: 10.8/17

Left In: 0.044 $\pm$ 0.055 χ^2 /NDF:3.2/1

Left: 0.054 $\pm$ 0.043 χ^2 /NDF: 6.4/4

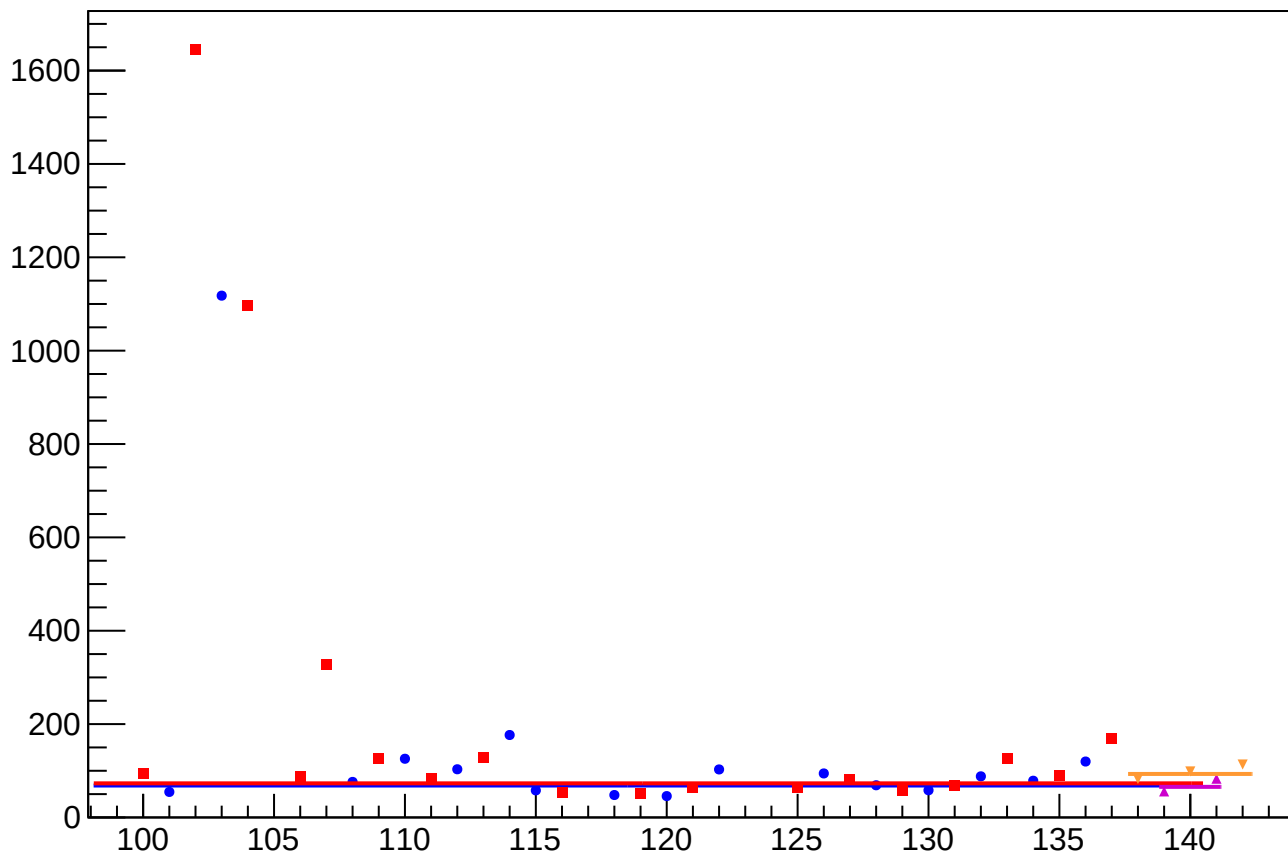
Right: 0.006 $\pm$ 0.022 χ^2 /NDF: 26.3/33

In: 0.027 $\pm$ 0.026 χ^2 /NDF:18.1/17

Out: 0.002 $\pm$ 0.030 χ^2 /NDF:15.1/20

All: 0.016 $\pm$ 0.020 χ^2 /NDF: 33.6/38

asym_atl1_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 68.428 $\pm$ 0.021 χ^2 /NDF: 2278168.9/15

Left Out: 93.211 $\pm$ 0.049 χ^2 /NDF: 53219.2/2

Right Out: 73.072 $\pm$ 0.024 χ^2 /NDF: 2913161.9/17

Left In: 65.542 $\pm$ 0.039 χ^2 /NDF: 110417.5/1

Left: 76.233 $\pm$ 0.031 χ^2 /NDF: 355841.9/4

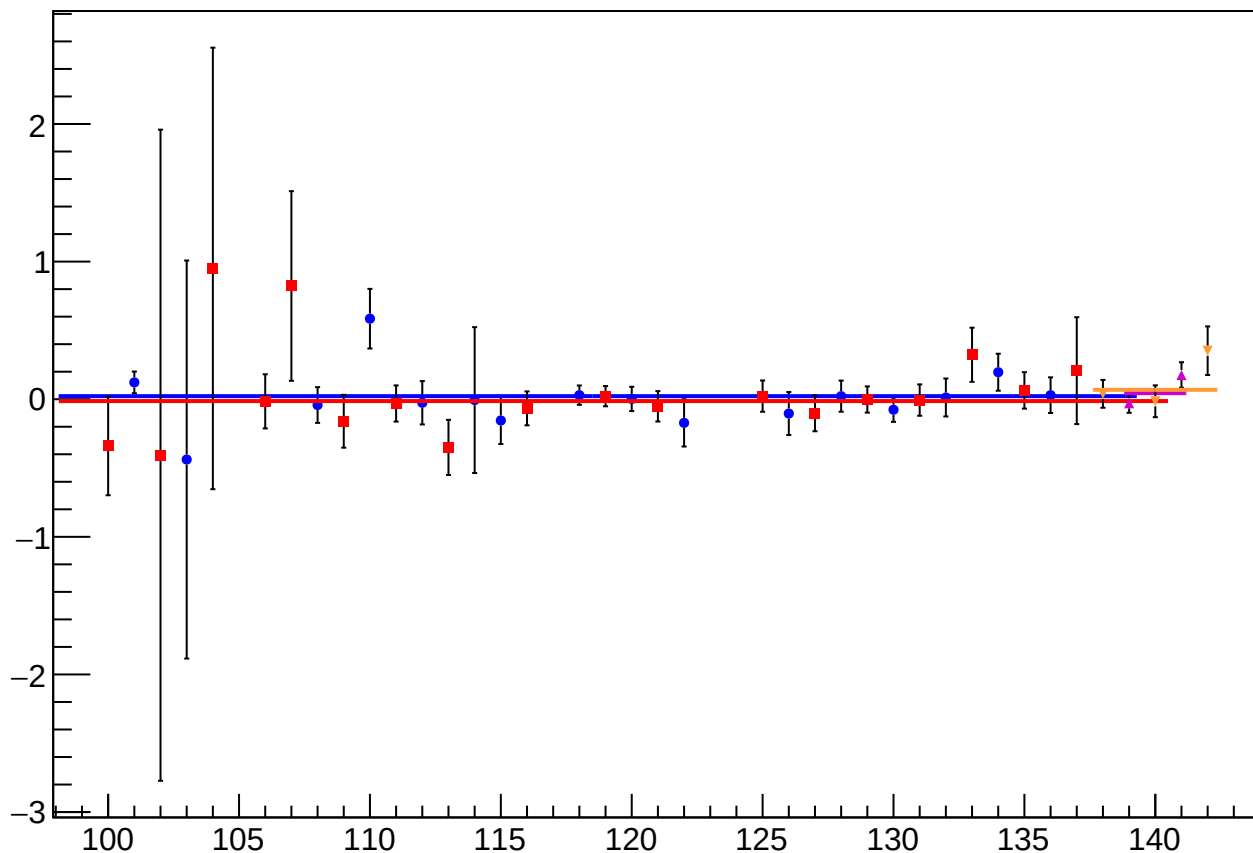
Right: 70.508 $\pm$ 0.016 χ^2 /NDF: 5212574.0/33

In: 67.770 $\pm$ 0.019 χ^2 /NDF: 2392766.7/17

Out: 76.828 $\pm$ 0.021 χ^2 /NDF: 3101373.9/20

All: 71.710 $\pm$ 0.014 χ^2 /NDF: 5595834.2/38

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.030 χ^2/NDF : 14.8/15

Left Out: 0.068 ± 0.070 χ^2/NDF : 3.2/2

Right Out: -0.013 ± 0.033 χ^2/NDF : 10.8/17

Left In: 0.044 ± 0.055 χ^2/NDF : 3.2/1

Left: 0.054 ± 0.043 χ^2/NDF : 6.4/4

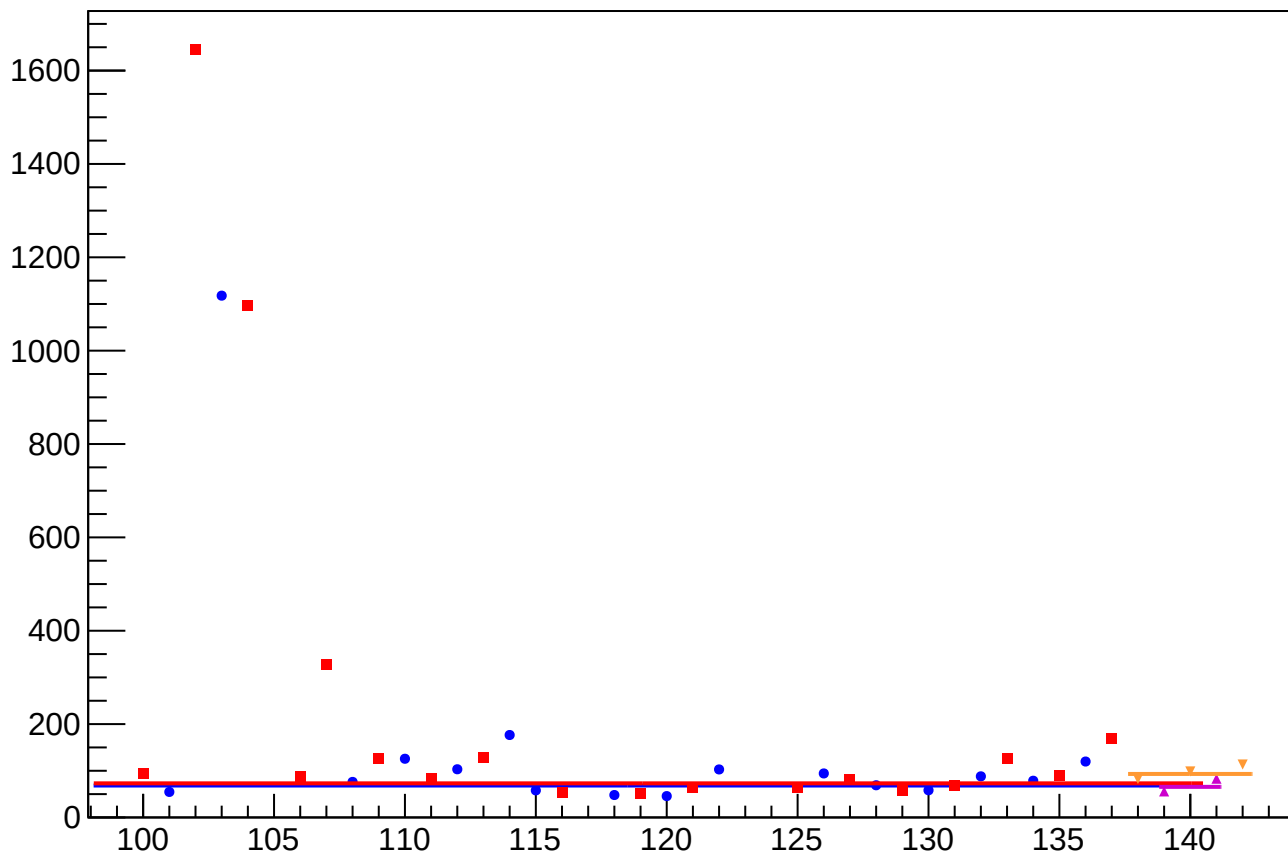
Right: 0.006 ± 0.022 χ^2/NDF : 26.3/33

In: 0.027 ± 0.026 χ^2/NDF : 18.1/17

Out: 0.002 ± 0.030 χ^2/NDF : 15.1/20

All: 0.016 ± 0.020 χ^2/NDF : 33.6/38

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 68.428 $\pm$ 0.021 χ^2 /NDF: 2278168.9/15

Left Out: 93.211 $\pm$ 0.049 χ^2 /NDF: 53219.2/2

Right Out: 73.072 $\pm$ 0.024 χ^2 /NDF: 2913161.9/17

Left In: 65.542 $\pm$ 0.039 χ^2 /NDF: 110417.5/1

Left: 76.233 $\pm$ 0.031 χ^2 /NDF: 355841.9/4

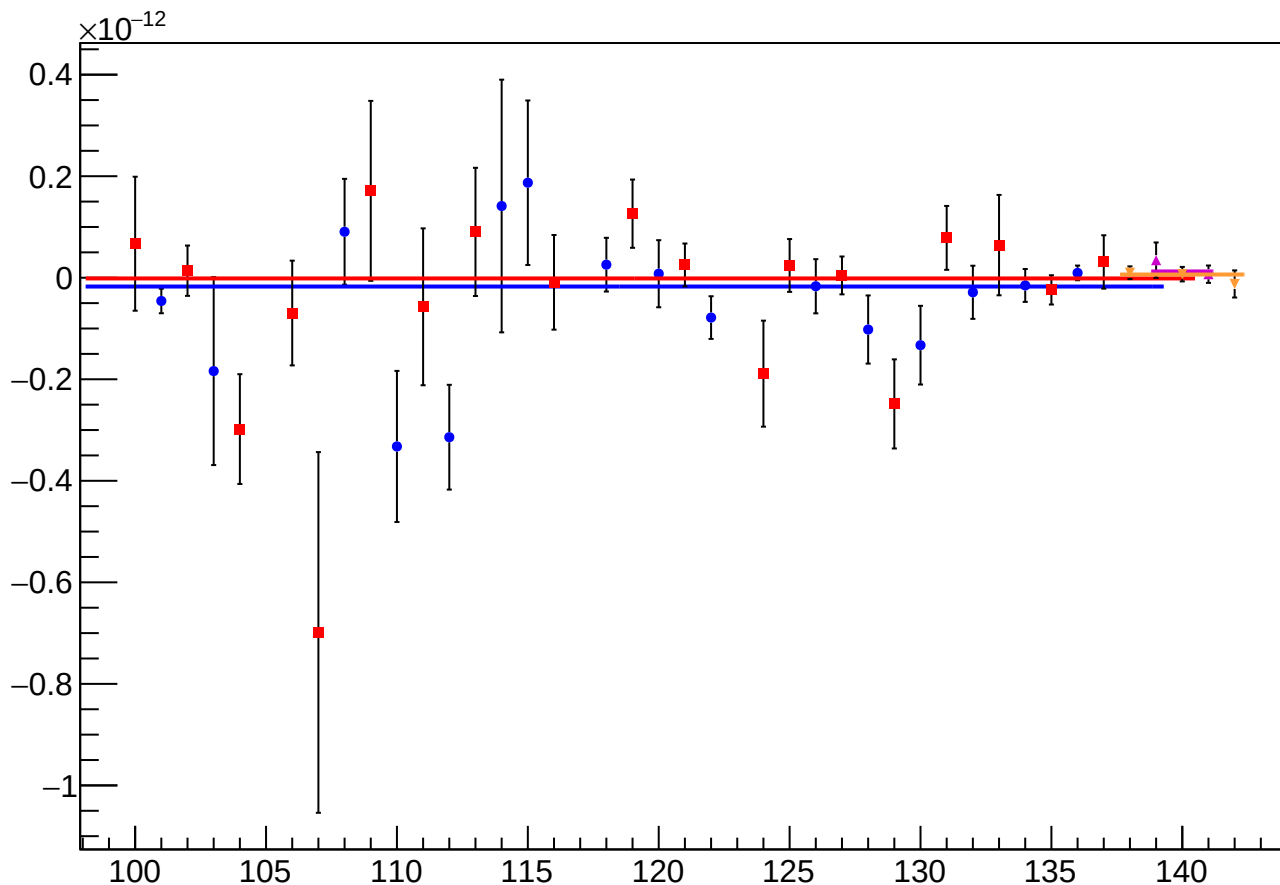
Right: 70.508 $\pm$ 0.016 χ^2 /NDF: 5212574.0/33

In: 67.770 $\pm$ 0.019 χ^2 /NDF: 2392766.7/17

Out: 76.828 $\pm$ 0.021 χ^2 /NDF: 3101373.9/20

All: 71.710 $\pm$ 0.014 χ^2 /NDF: 5595834.2/38

asym_atl1_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 28.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.6/2

Right Out: -0.000+/-0.000 χ^2/NDF : 32.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.5/1

Left: 0.000+/-0.000 χ^2/NDF : 1.2/4

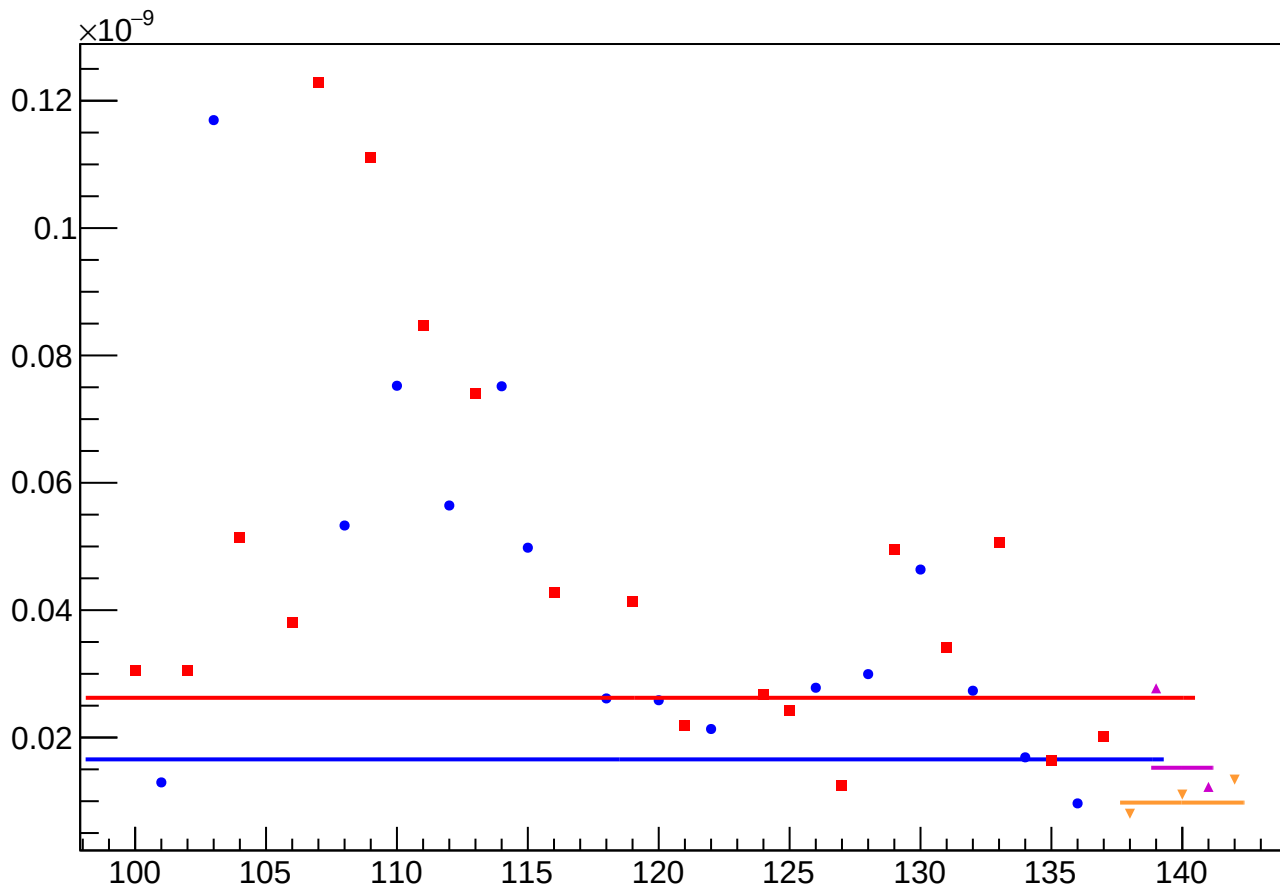
Right: -0.000+/-0.000 χ^2/NDF : 61.4/34

In: -0.000+/-0.000 χ^2/NDF : 31.4/17

Out: 0.000+/-0.000 χ^2/NDF : 33.1/21

All: -0.000+/-0.000 χ^2/NDF : 65.7/39

asym_atl1_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2823424.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 91030.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2346394.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 317940.3/1

Left: 0.000+/-0.000 χ^2/NDF : 599193.0/4

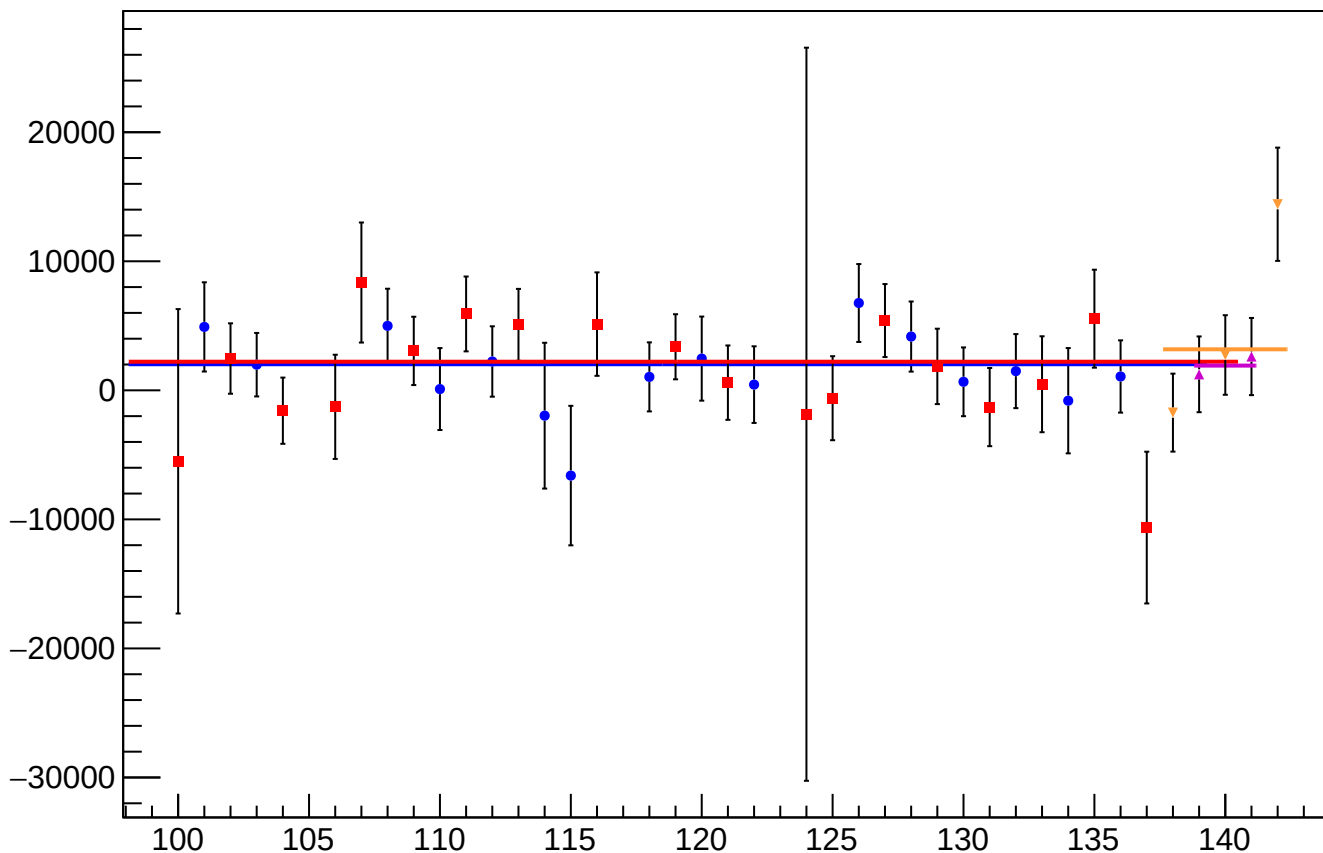
Right: 0.000+/-0.000 χ^2/NDF : 5786992.3/34

In: 0.000+/-0.000 χ^2/NDF : 3151676.0/17

Out: 0.000+/-0.000 χ^2/NDF : 4357632.7/21

All: 0.000+/-0.000 χ^2/NDF : 7560328.6/39

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2022.690+/-764.357 χ^2/NDF : 9.6/15

Left Out: 3178.187+/-1936.334 χ^2/NDF : 9.2/2

Right Out: 2217.261+/-756.139 χ^2/NDF : 18.1/18

Left In: 1916.292+/-2094.636 χ^2/NDF : 0.1/1

Left: 2596.719+/-1421.869 χ^2/NDF : 9.5/4

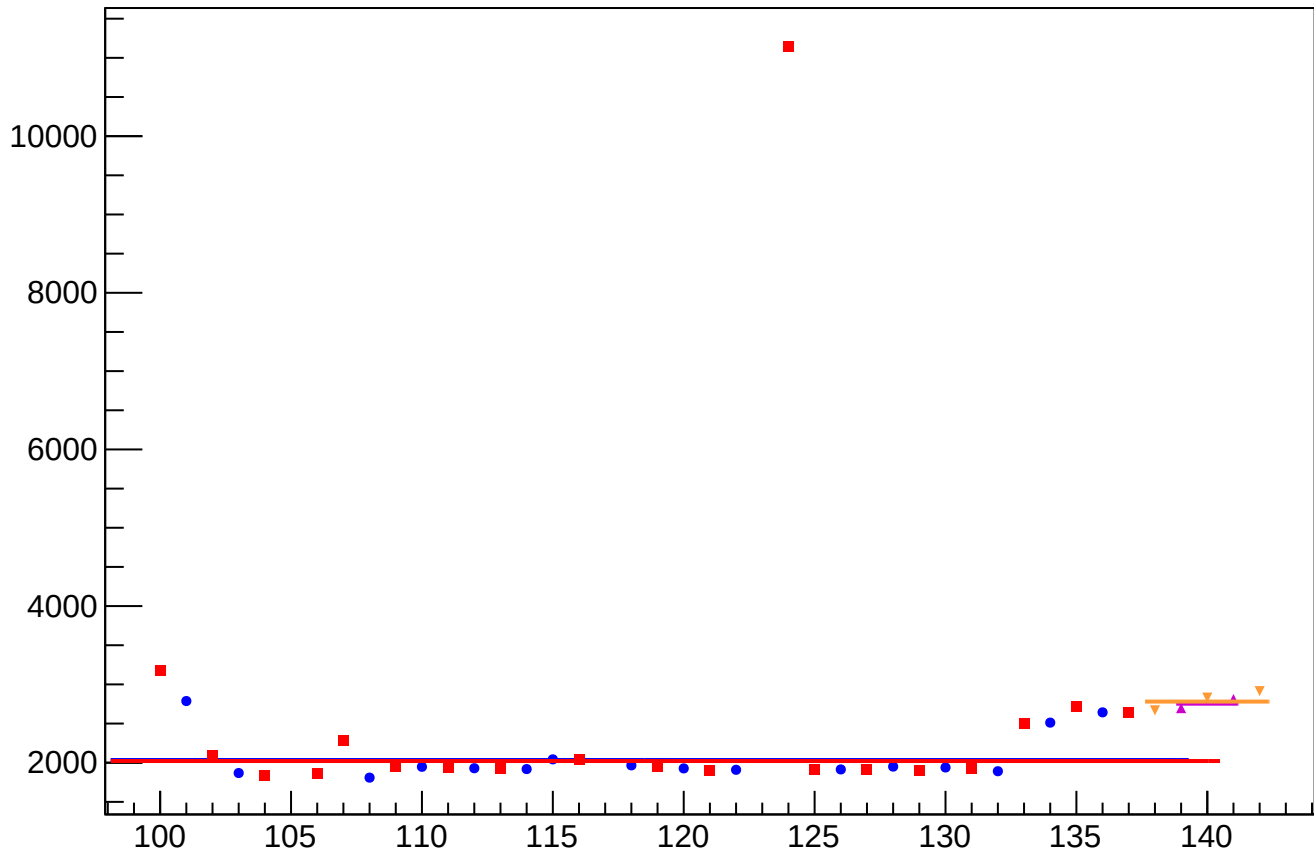
Right: 2121.027+/-537.553 χ^2/NDF : 27.8/34

In: 2010.187+/-718.043 χ^2/NDF : 9.7/17

Out: 2344.405+/-704.341 χ^2/NDF : 27.6/21

All: 2180.515+/-502.819 χ^2/NDF : 37.4/39

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2034.159+/-0.540 χ^2/NDF : 262960.7/15

Left Out: 2780.594+/-1.369 χ^2/NDF : 5122.4/2

Right Out: 2021.545+/-0.535 χ^2/NDF : 390321.3/18

Left In: 2753.847+/-1.481 χ^2/NDF : 1540.5/1

Left: 2768.269+/-1.005 χ^2/NDF : 6838.7/4

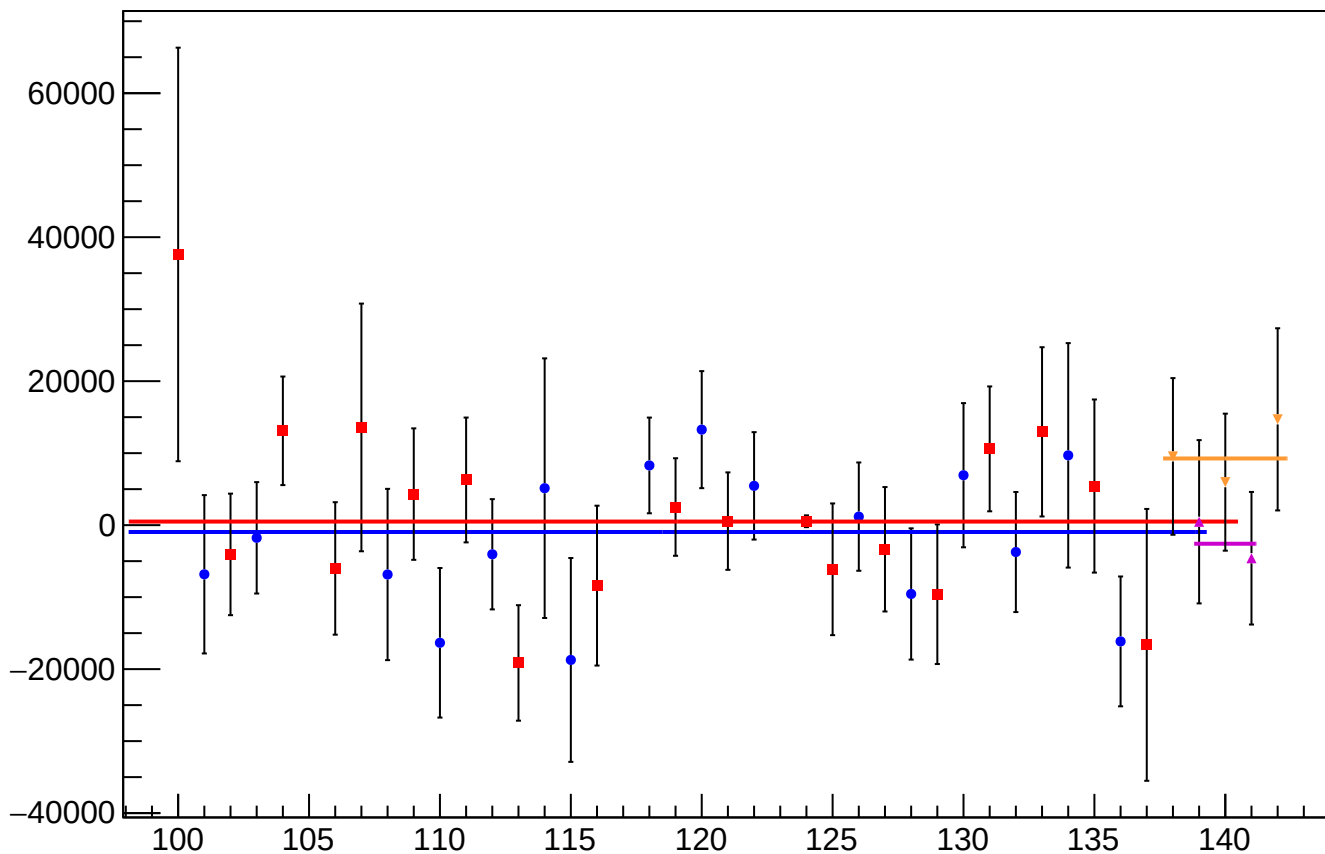
Right: 2027.784+/-0.380 χ^2/NDF : 653557.3/34

In: 2118.731+/-0.508 χ^2/NDF : 472859.1/17

Out: 2121.978+/-0.498 χ^2/NDF : 662112.0/21

All: 2120.386+/-0.356 χ^2/NDF : 1134991.9/39

asym_atl2_reg_correction_mean vs Slug, Sign Corrected



Right In: -950.519 ± 2278.532 $\chi^2/\text{NDF}: 15.3/15$

Left Out: 9261.256 ± 6233.125 $\chi^2/\text{NDF}: 0.3/2$

Right Out: 497.346 ± 768.286 $\chi^2/\text{NDF}: 18.5/18$

Left In: -2582.135 ± 7148.905 $\chi^2/\text{NDF}: 0.1/1$

Left: 4146.268 ± 4698.117 $\chi^2/\text{NDF}: 2.0/4$

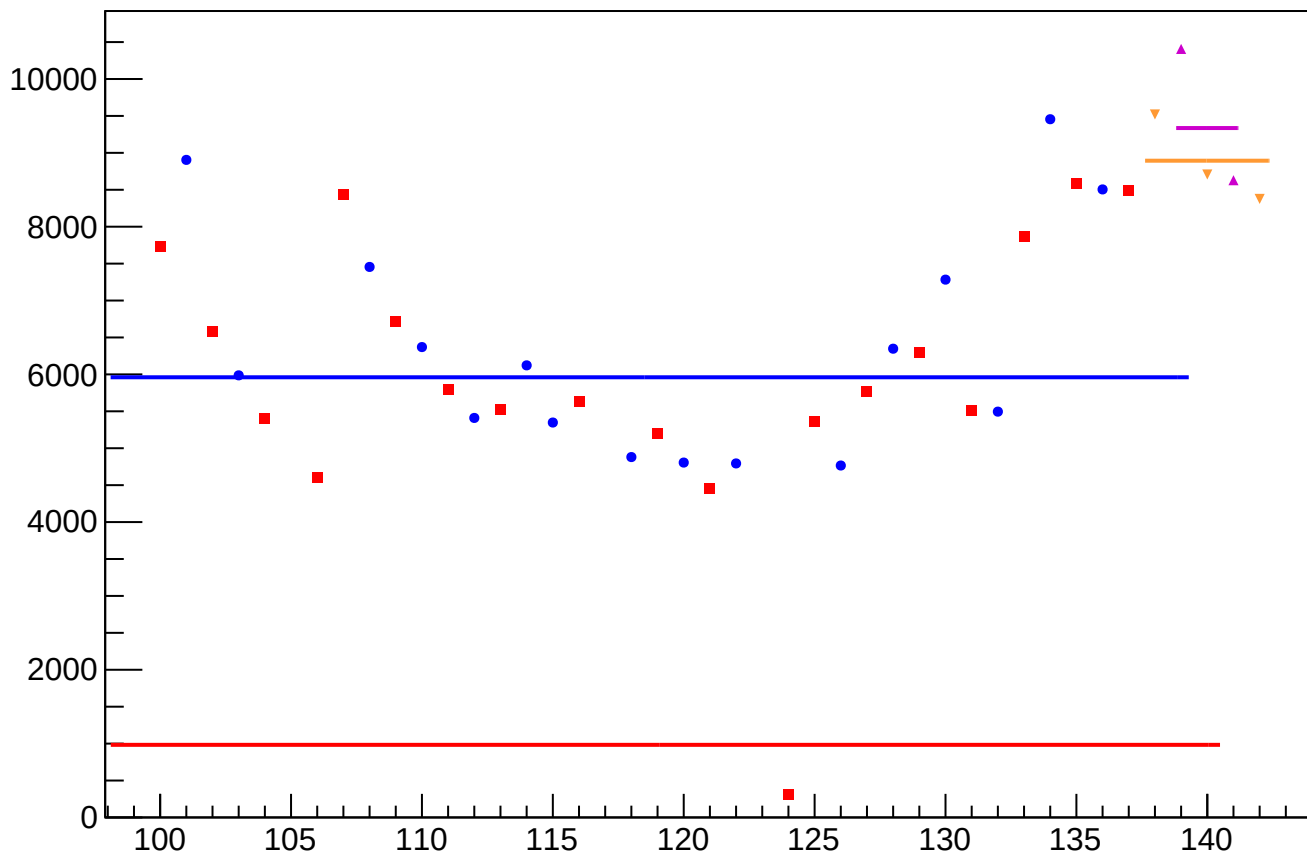
Right: 349.538 ± 728.015 $\chi^2/\text{NDF}: 34.2/34$

In: -1100.983 ± 2170.931 $\chi^2/\text{NDF}: 15.5/17$

Out: 628.501 ± 762.516 $\chi^2/\text{NDF}: 20.7/21$

All: 438.568 ± 719.429 $\chi^2/\text{NDF}: 36.8/39$

asym_atl2_reg_correction_rms vs Slug, Sign Corrected



Right In: 5960.802+/-1.611 χ^2/NDF : 689267.6/15

Left Out: 8893.648+/-4.407 χ^2/NDF : 10741.9/2

Right Out: 983.316+/-0.543 χ^2/NDF : 11416689.8/18

Left In: 9335.873+/-5.055 χ^2/NDF : 29626.2/1

Left: 9084.639+/-3.322 χ^2/NDF : 44715.9/4

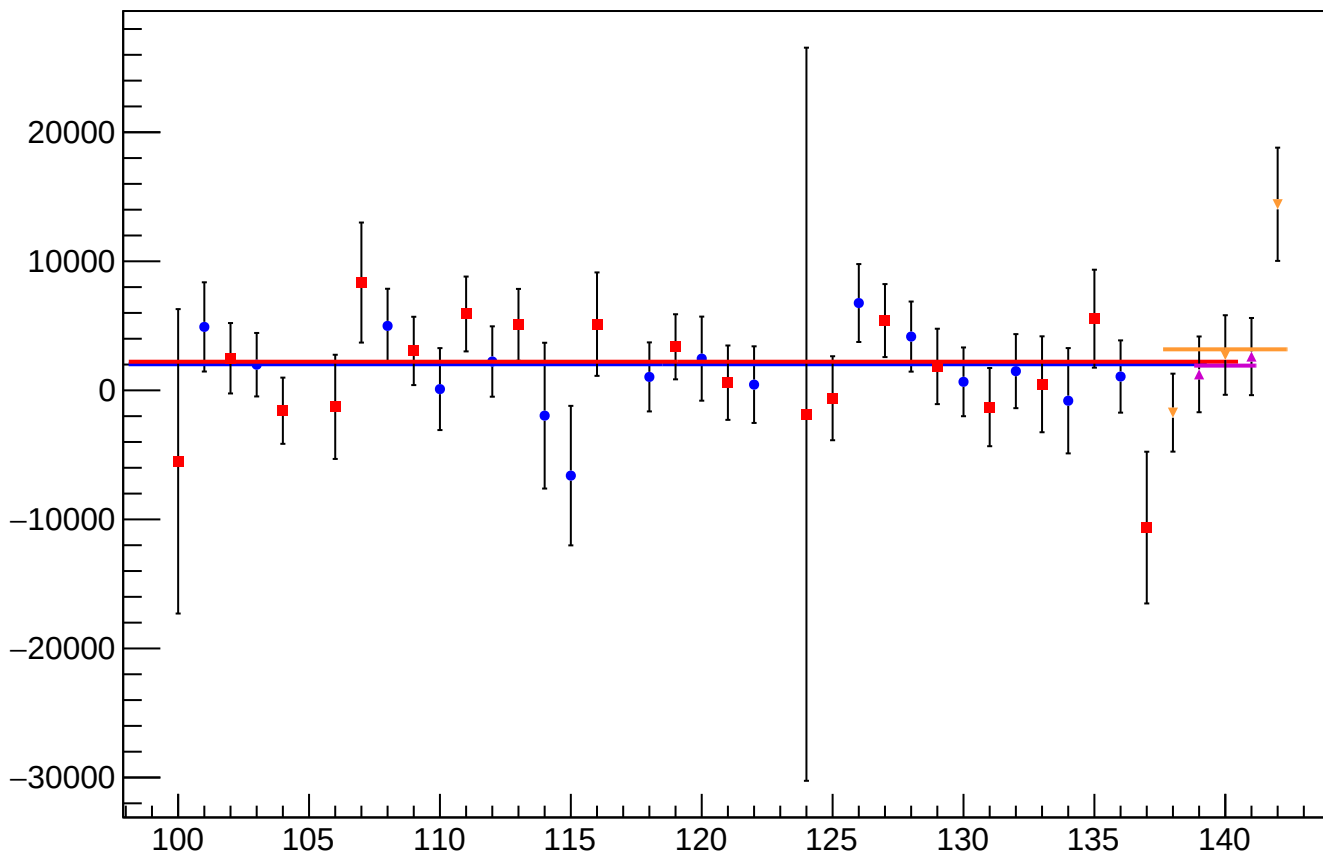
Right: 1491.453+/-0.515 χ^2/NDF : 20675824.3/34

In: 6272.042+/-1.535 χ^2/NDF : 1123561.7/17

Out: 1101.697+/-0.539 χ^2/NDF : 14600352.6/21

All: 1669.507+/-0.509 χ^2/NDF : 25822362.1/3

cor_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2022.816+/-764.357 χ^2/NDF : 9.6/15

Left Out: 3178.593+/-1936.334 χ^2/NDF : 9.2/2

Right Out: 2219.099+/-756.147 χ^2/NDF : 18.1/18

Left In: 1916.097+/-2094.636 χ^2/NDF : 0.1/1

Left: 2596.849+/-1421.869 χ^2/NDF : 9.5/4

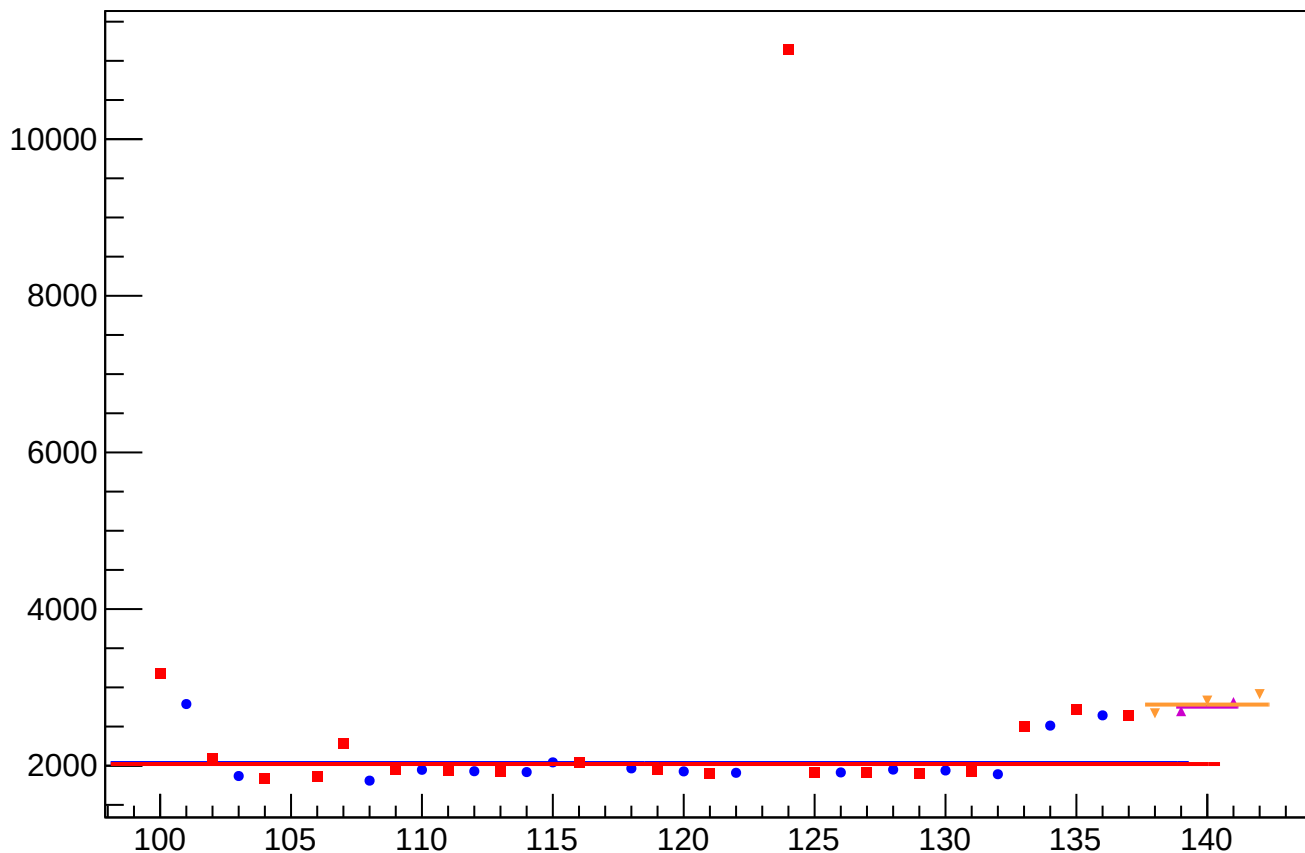
Right: 2122.018+/-537.556 χ^2/NDF : 27.8/34

In: 2010.275+/-718.043 χ^2/NDF : 9.7/17

Out: 2346.056+/-704.347 χ^2/NDF : 27.6/21

All: 2181.399+/-502.821 χ^2/NDF : 37.4/39

cor_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2034.159+/-0.540 χ^2/NDF : 262960.5/15

Left Out: 2780.594+/-1.369 χ^2/NDF : 5122.4/2

Right Out: 2021.566+/-0.535 χ^2/NDF : 390333.0/18

Left In: 2753.847+/-1.481 χ^2/NDF : 1540.5/1

Left: 2768.269+/-1.005 χ^2/NDF : 6838.7/4

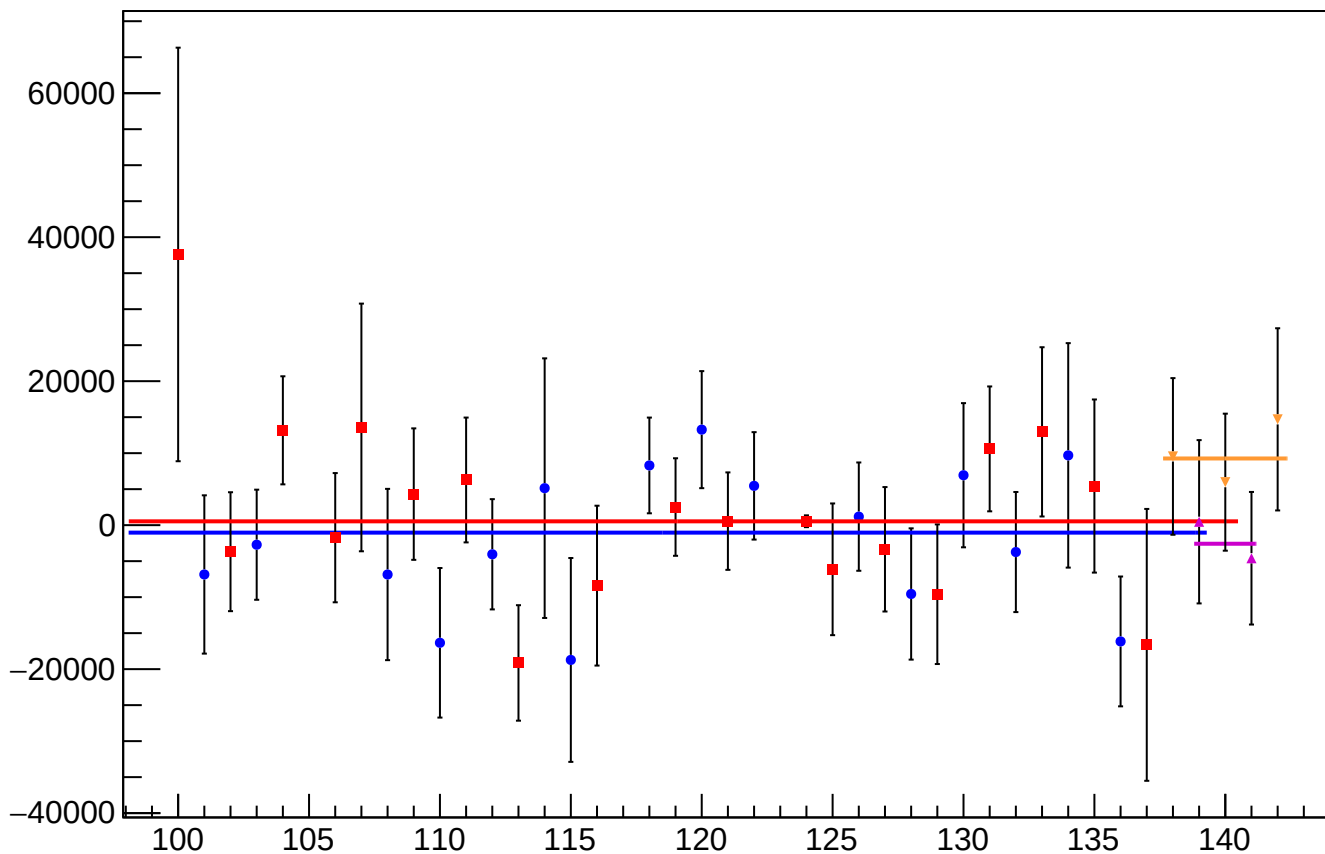
Right: 2027.795+/-0.380 χ^2/NDF : 653567.8/34

In: 2118.731+/-0.508 χ^2/NDF : 472859.0/17

Out: 2121.998+/-0.498 χ^2/NDF : 662107.8/21

All: 2120.396+/-0.356 χ^2/NDF : 1134987.9/39

asym_atl2_cor_correction_mean vs Slug, Sign Corrected



Right In: -1037.942 $\pm$ 2276.180 χ^2 /NDF: 15.4/15

Left Out: 9261.804 $\pm$ 6233.135 χ^2 /NDF:0.3/2

Right Out: 530.662 $\pm$ 767.947 χ^2 /NDF: 18.0/18

Left In: -2582.170 $\pm$ 7148.895 χ^2 /NDF:0.1/1

Left: 4146.547 $\pm$ 4698.118 χ^2 /NDF: 2.0/4

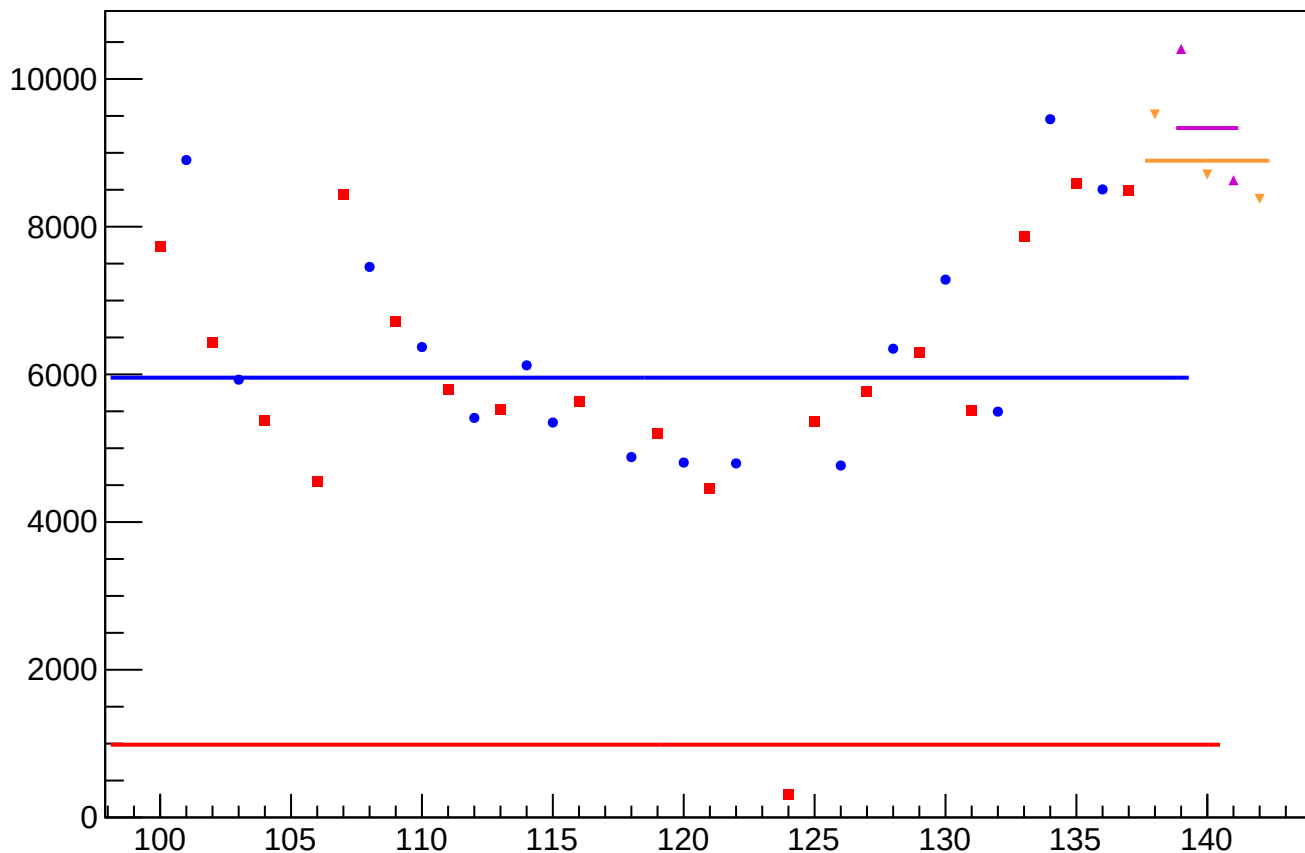
Right: 370.358 $\pm$ 727.649 χ^2 /NDF: 33.8/34

In: -1180.081 $\pm$ 2168.897 χ^2 /NDF:15.5/17

Out: 661.212 $\pm$ 762.184 χ^2 /NDF:20.3/21

All: 458.819 $\pm$ 719.076 χ^2 /NDF: 36.5/39

asym_atl2_cor_correction_rms vs Slug, Sign Corrected



Right In: 5955.638+/-1.610

χ^2/NDF : 689141.5/15

Left Out: 8893.663+/-4.407

χ^2/NDF : 10741.2/2

Right Out: 985.045+/-0.543

χ^2/NDF : 11412843.1/18

Left In: 9335.859+/-5.055

χ^2/NDF : 29626.4/1

Left: 9084.642+/-3.322

χ^2/NDF : 44714.8/4

Right: 1493.016+/-0.515

χ^2/NDF : 20664769.2/34

In: 6266.771+/-1.534

χ^2/NDF : 1124749.6/17

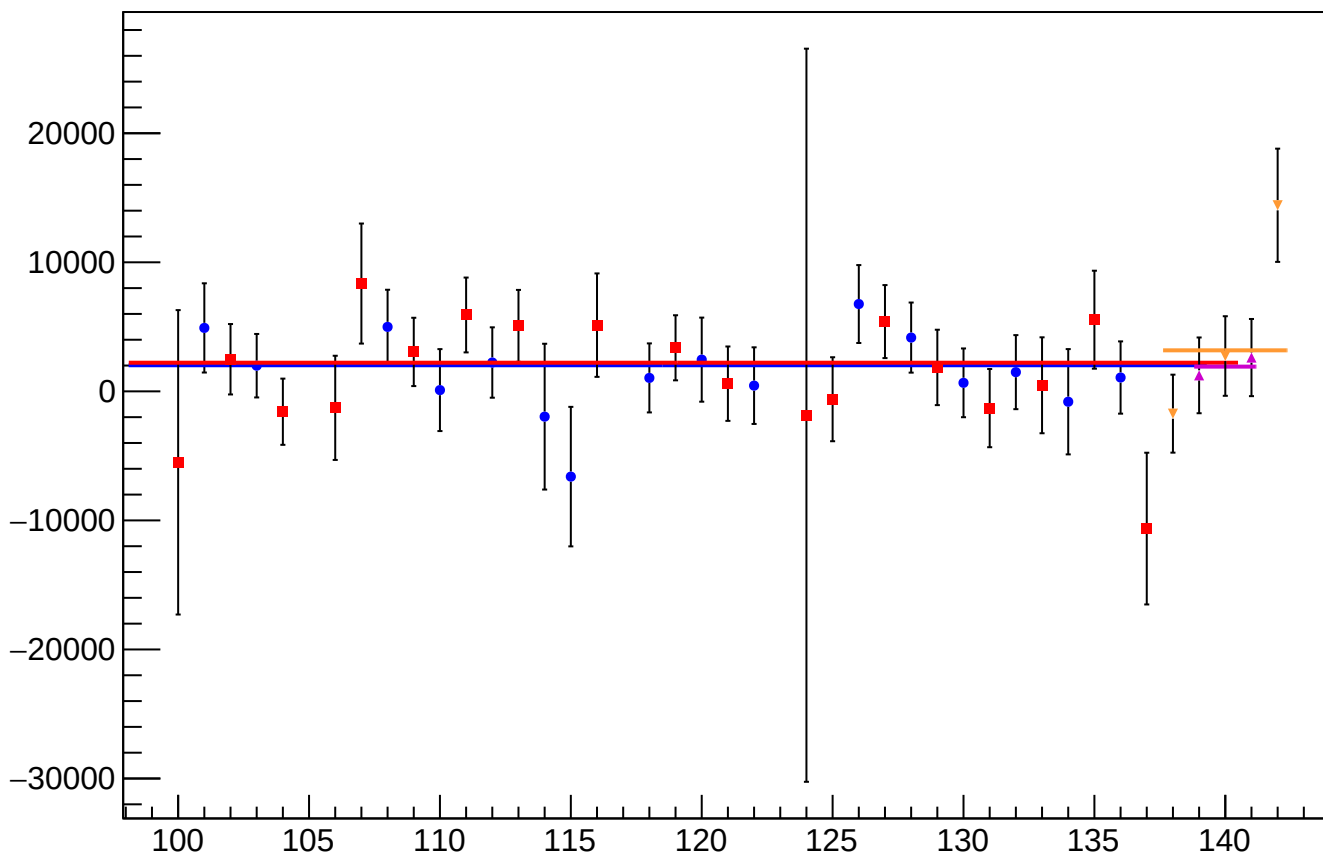
Out: 1103.296+/-0.539

χ^2/NDF : 14595162.8/21

All: 1670.859+/-0.508

χ^2/NDF : 25809326.7/3

eigen_cor_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2022.816+/-764.357 χ^2/NDF : 9.6/15

Left Out: 3178.593+/-1936.334 χ^2/NDF : 9.2/2

Right Out: 2219.099+/-756.147 χ^2/NDF : 18.1/18

Left In: 1916.097+/-2094.636 χ^2/NDF : 0.1/1

Left: 2596.849+/-1421.869 χ^2/NDF : 9.5/4

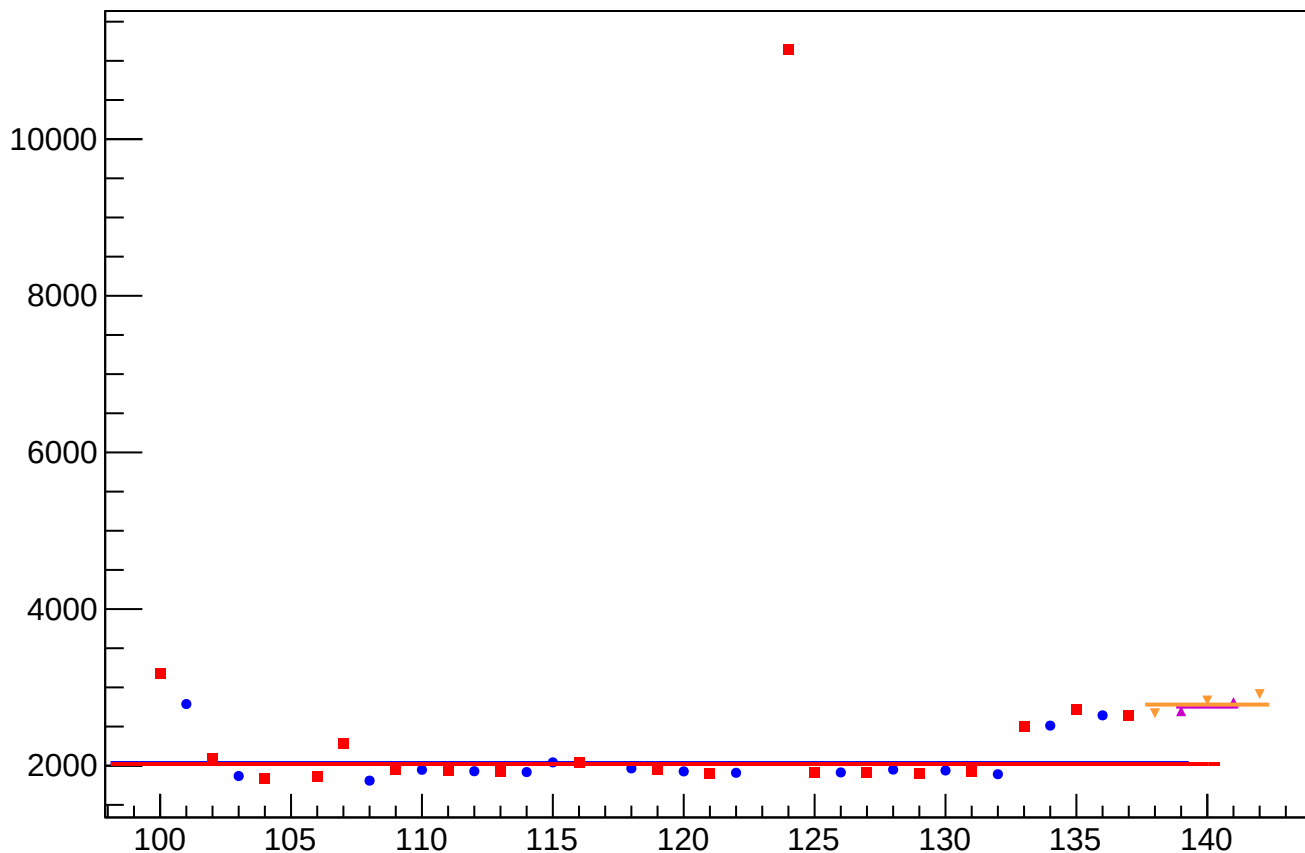
Right: 2122.018+/-537.556 χ^2/NDF : 27.8/34

In: 2010.275+/-718.043 χ^2/NDF : 9.7/17

Out: 2346.056+/-704.347 χ^2/NDF : 27.6/21

All: 2181.399+/-502.821 χ^2/NDF : 37.4/39

eigen_cor_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2034.159+/-0.540 χ^2/NDF : 262960.5/15

Left Out: 2780.594+/-1.369 χ^2/NDF : 5122.4/2

Right Out: 2021.566+/-0.535 χ^2/NDF : 390333.0/18

Left In: 2753.847+/-1.481 χ^2/NDF : 1540.5/1

Left: 2768.269+/-1.005 χ^2/NDF : 6838.7/4

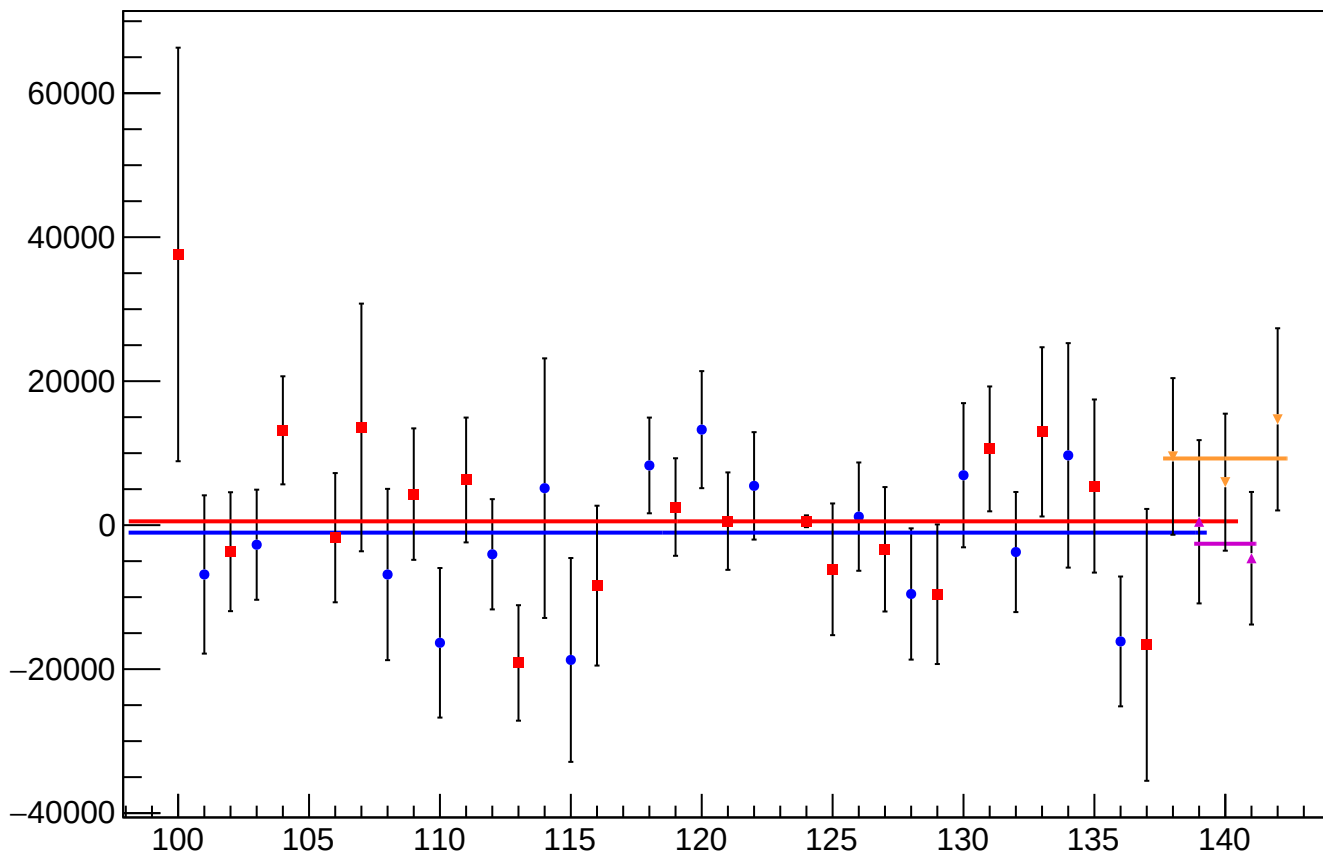
Right: 2027.795+/-0.380 χ^2/NDF : 653567.8/34

In: 2118.731+/-0.508 χ^2/NDF : 472859.0/17

Out: 2121.998+/-0.498 χ^2/NDF : 662107.8/21

All: 2120.396+/-0.356 χ^2/NDF : 1134987.9/39

asym_atl2_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1037.942 ± 2276.180 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 9261.804 ± 6233.135 $\chi^2/\text{NDF}: 0.3/2$

Right Out: 530.662 ± 767.947 $\chi^2/\text{NDF}: 18.0/18$

Left In: -2582.170 ± 7148.895 $\chi^2/\text{NDF}: 0.1/1$

Left: 4146.547 ± 4698.118 $\chi^2/\text{NDF}: 2.0/4$

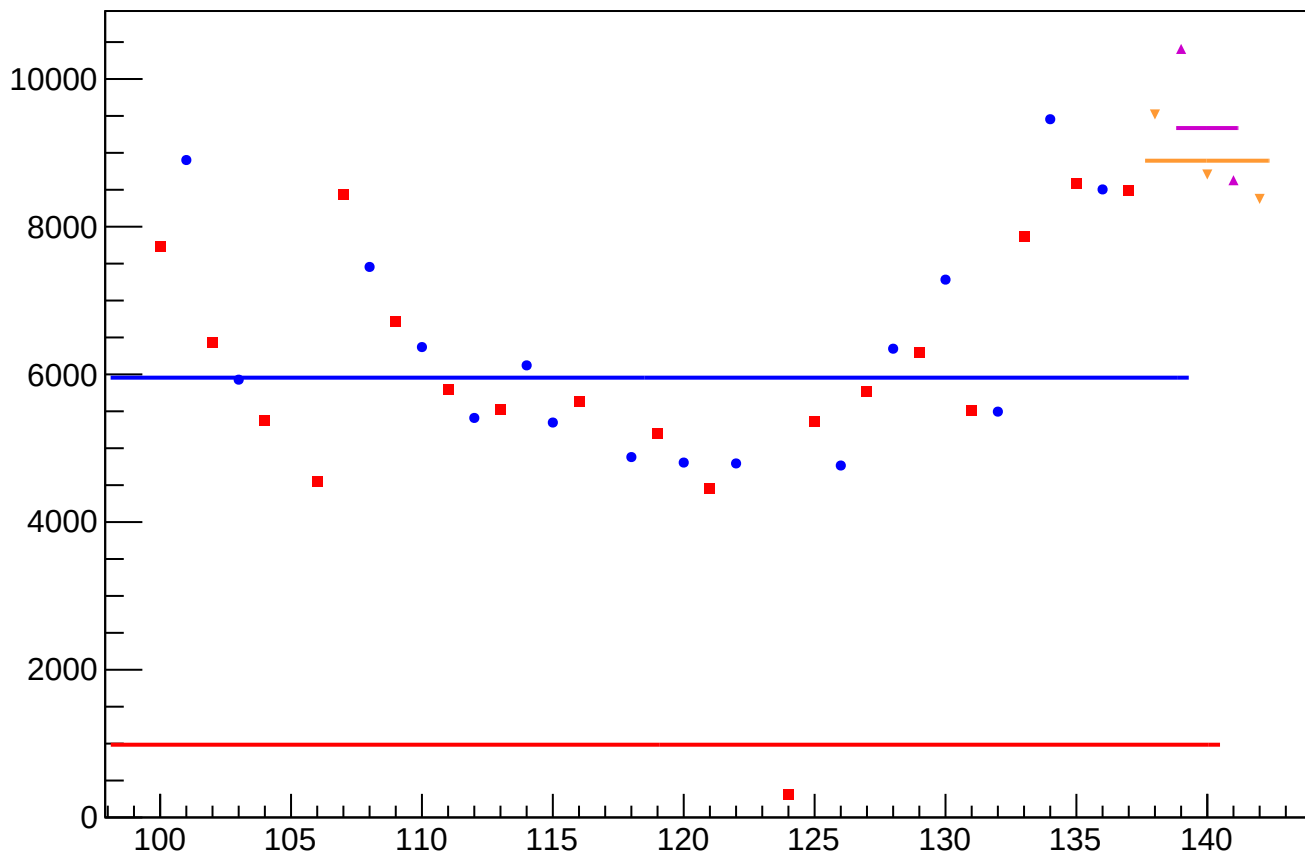
Right: 370.358 ± 727.649 $\chi^2/\text{NDF}: 33.8/34$

In: -1180.081 ± 2168.897 $\chi^2/\text{NDF}: 15.5/17$

Out: 661.212 ± 762.184 $\chi^2/\text{NDF}: 20.3/21$

All: 458.819 ± 719.076 $\chi^2/\text{NDF}: 36.5/39$

asym_atl2_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 5955.638 $\pm$ 1.610

χ^2/NDF : 689141.5/15

Left: 9084.642 $\pm$ 3.322

χ^2/NDF : 44714.8/4

Left Out: 8893.663 $\pm$ 4.407

χ^2/NDF : 10741.2/2

Right: 1493.016 $\pm$ 0.515

χ^2/NDF : 20664769.2/34

Right Out: 985.045 $\pm$ 0.543

χ^2/NDF : 11412843.1/18

In: 6266.771 $\pm$ 1.534

χ^2/NDF : 1124749.6/17

Out: 1103.296 $\pm$ 0.539

χ^2/NDF : 14595162.8/21

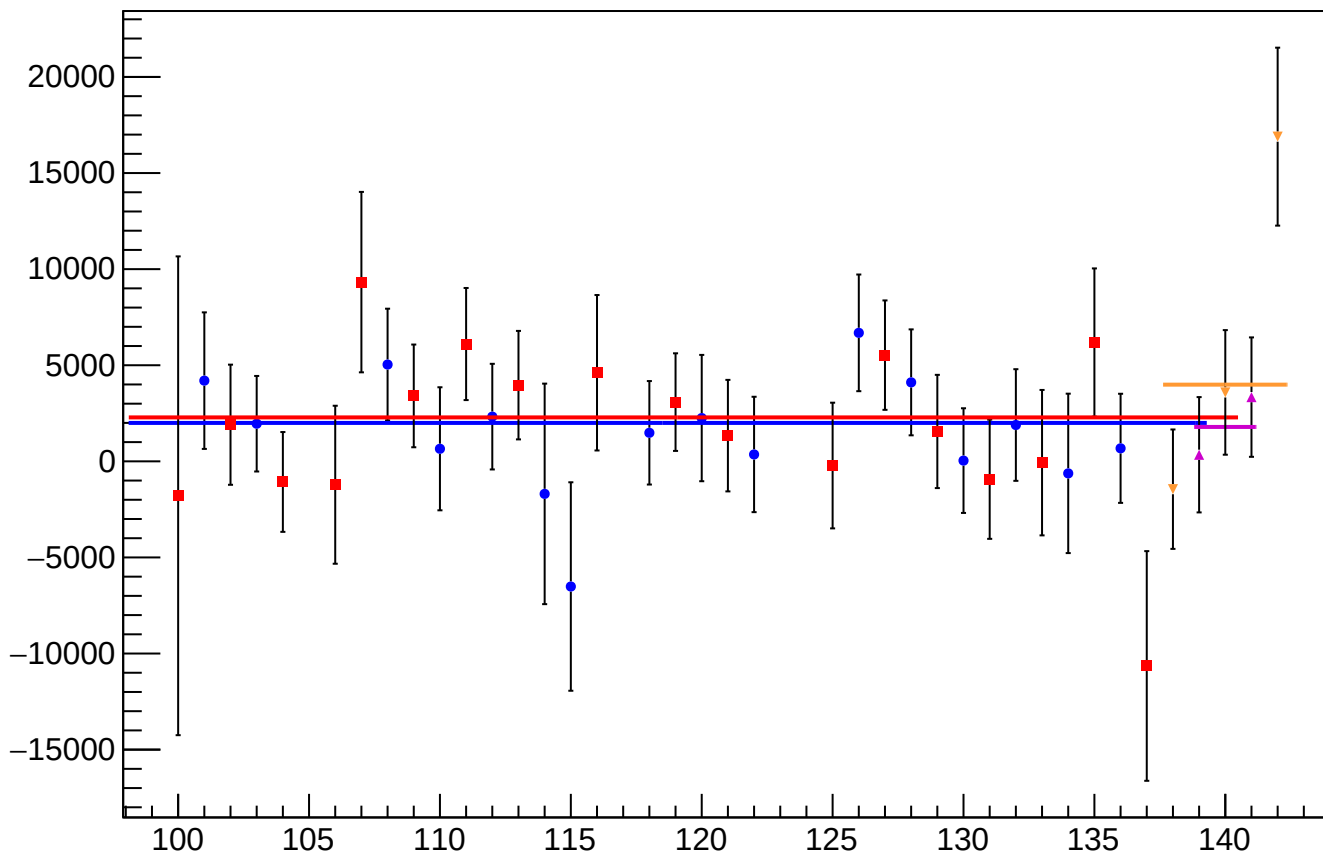
Left In: 9335.859 $\pm$ 5.055

χ^2/NDF : 29626.4/1

All: 1670.859 $\pm$ 0.508

χ^2/NDF : 25809326.7/3

dit_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1999.214+/-773.538 χ^2/NDF : 9.0/15

Left Out: 3990.272+/-2018.507 χ^2/NDF :10.8/2

Right Out: 2285.899+/-771.299 χ^2/NDF : 16.7/17

Left In: 1789.663+/-2158.027 χ^2/NDF :0.5/1

Left: 2963.398+/-1474.158 χ^2/NDF : 11.9/4

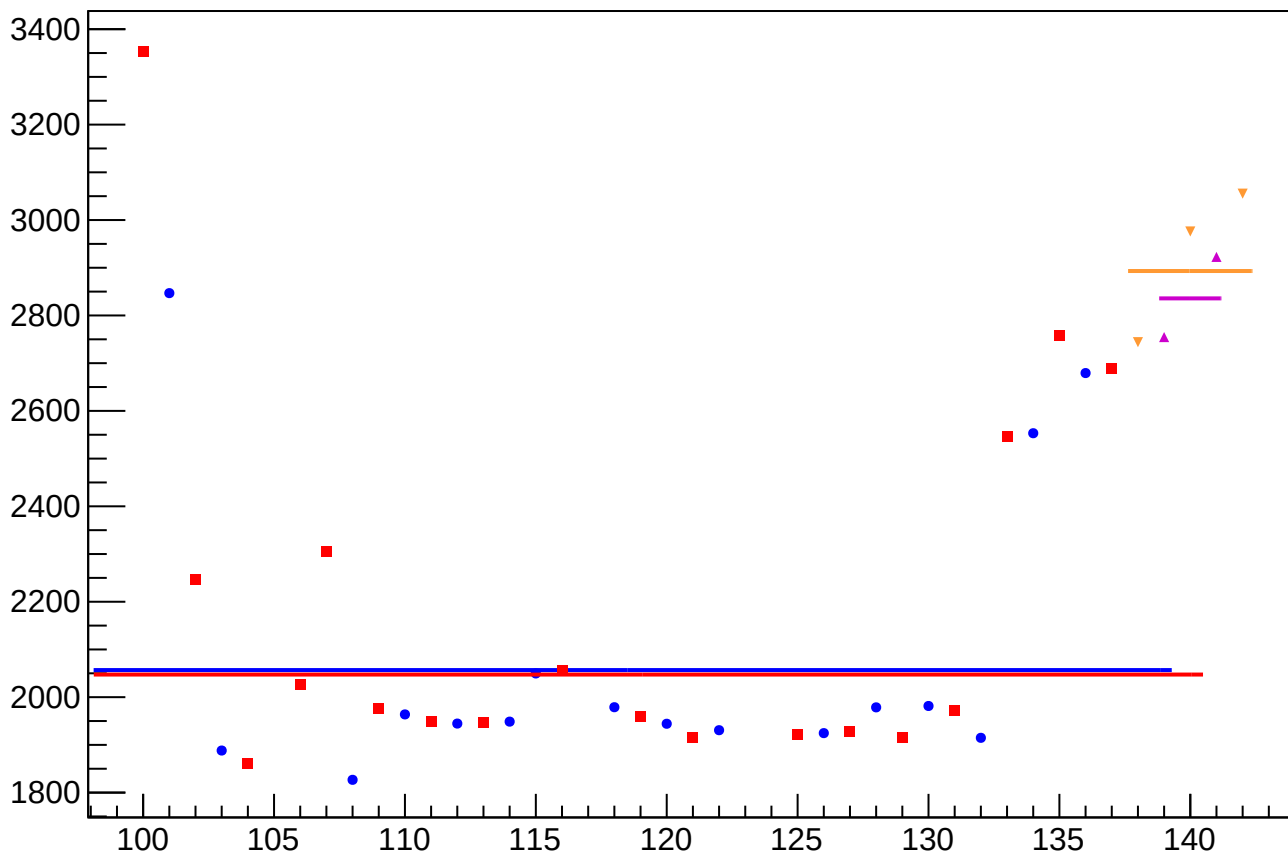
Right: 2142.972+/-546.180 χ^2/NDF : 25.7/33

In: 1975.355+/-728.172 χ^2/NDF :9.5/17

Out: 2503.050+/-720.490 χ^2/NDF :28.1/20

All: 2242.000+/-512.158 χ^2/NDF : 37.9/38

dit_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2056.796 $\pm$ 0.547 χ^2 /NDF: 270454.5/15

Left Out: 2893.150 $\pm$ 1.427 χ^2 /NDF: 8369.4/2

Right Out: 2047.400 $\pm$ 0.545 χ^2 /NDF: 196523.0/17

Left In: 2835.791 $\pm$ 1.526 χ^2 /NDF: 3028.7/1

Left: 2866.384 $\pm$ 1.042 χ^2 /NDF: 12151.7/4

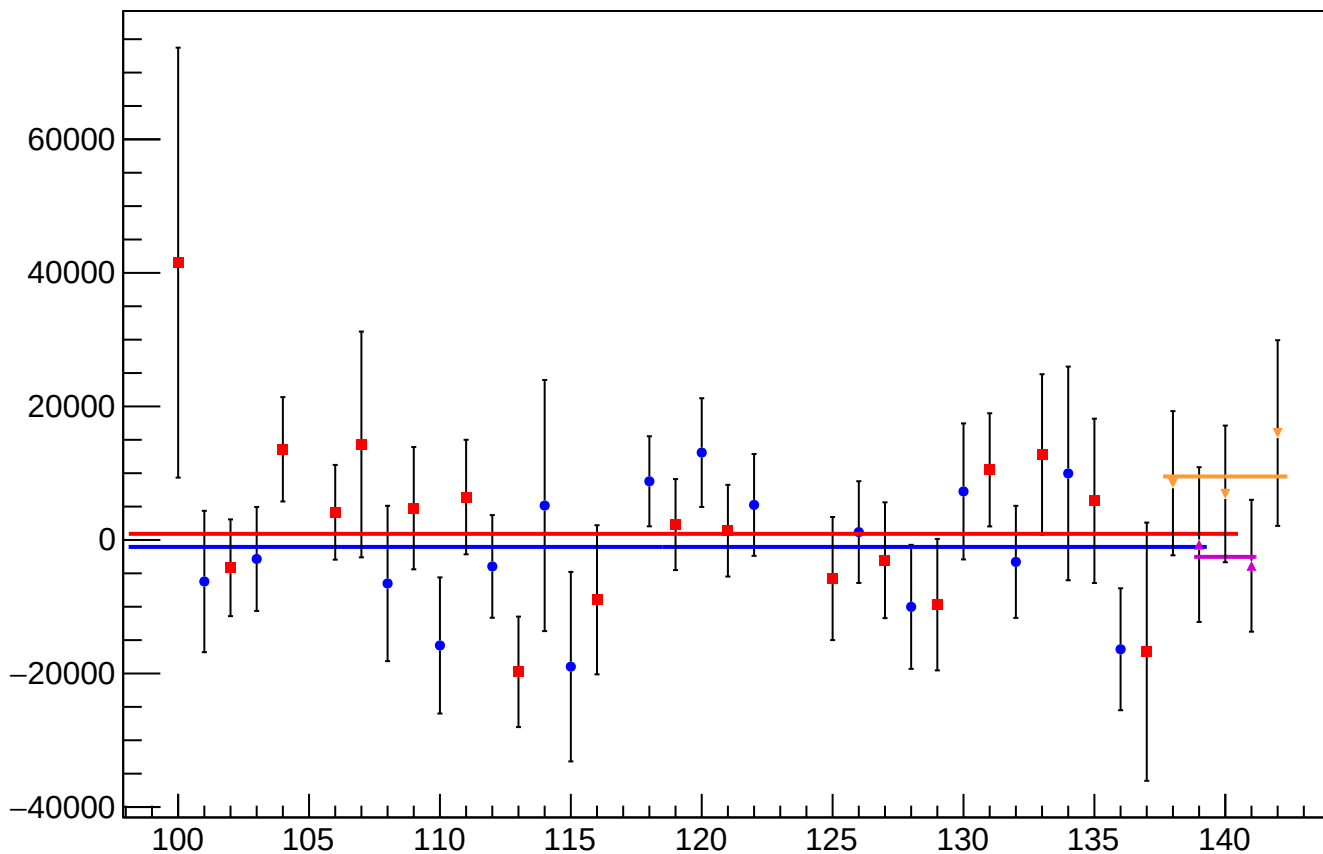
Right: 2052.077 $\pm$ 0.386 χ^2 /NDF: 467125.7/33

In: 2145.488 $\pm$ 0.515 χ^2 /NDF: 504419.0/17

Out: 2154.872 $\pm$ 0.509 χ^2 /NDF: 511393.0/20

All: 2150.236 $\pm$ 0.362 χ^2 /NDF: 1015980.0/38

asym_atl2_dit_correction_mean vs Slug, Sign Corrected



Right In: -1042.515 ± 2294.607 $\chi^2/\text{NDF}: 15.3/15$

Left Out: 9511.069 ± 6551.819 $\chi^2/\text{NDF}: 0.3/2$

Right Out: 919.663 ± 2150.895 $\chi^2/\text{NDF}: 18.4/17$

Left In: -2528.386 ± 7516.215 $\chi^2/\text{NDF}: 0.0/1$

Left: 4312.814 ± 4938.836 $\chi^2/\text{NDF}: 1.8/4$

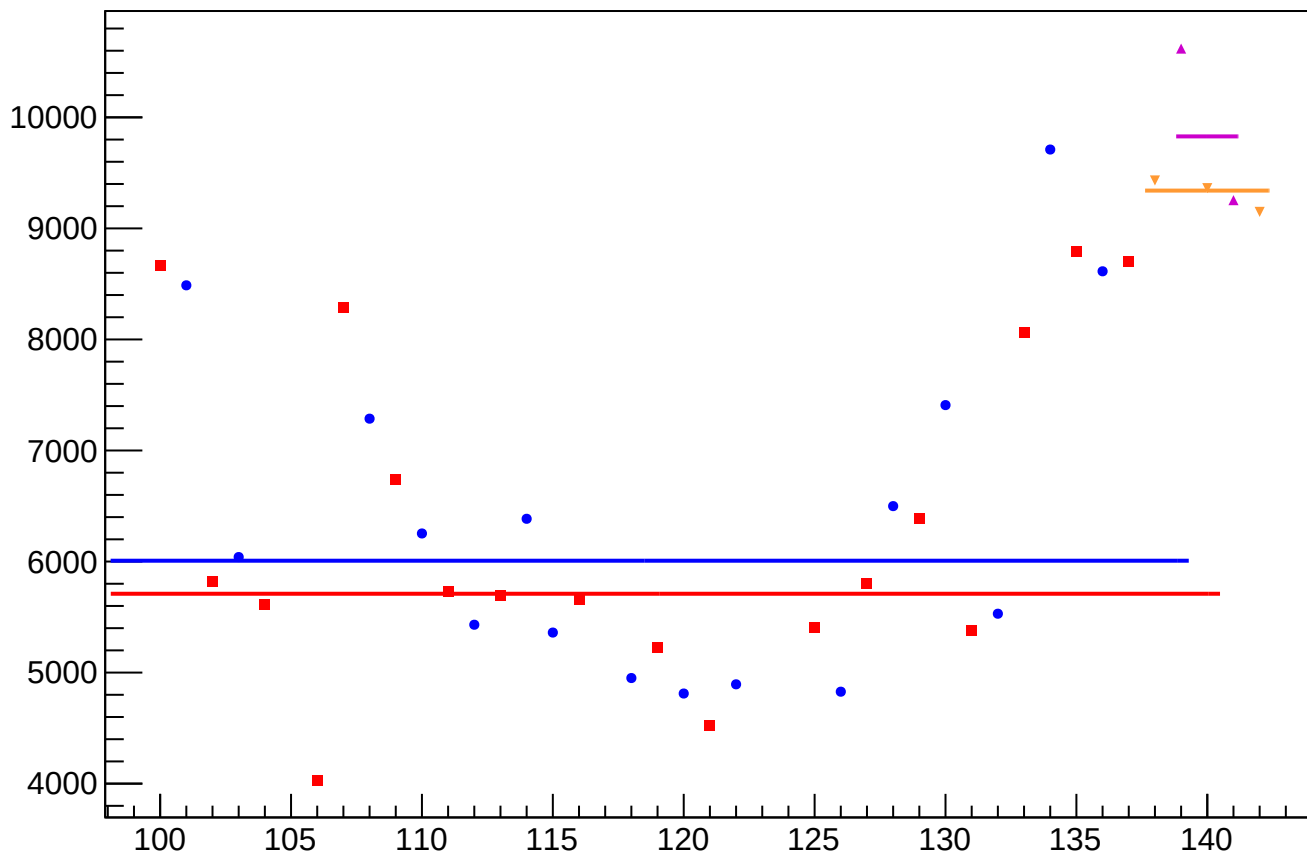
Right: 1.940 ± 1569.260 $\chi^2/\text{NDF}: 34.1/33$

In: -1169.193 ± 2194.615 $\chi^2/\text{NDF}: 15.4/17$

Out: 1755.511 ± 2043.589 $\chi^2/\text{NDF}: 20.2/20$

All: 397.247 ± 1495.579 $\chi^2/\text{NDF}: 36.5/38$

asym_atl2_dit_correction_rms vs Slug, Sign Corrected



Right In: 6007.425+/-1.623 χ^2/NDF : 653996.7/15

Left Out: 9340.500+/-4.633 χ^2/NDF : 532.3/2

Right Out: 5709.903+/-1.521 χ^2/NDF : 535926.2/17

Left In: 9828.482+/-5.315 χ^2/NDF : 16073.6/1

Left: 9551.195+/-3.492 χ^2/NDF : 21396.2/4

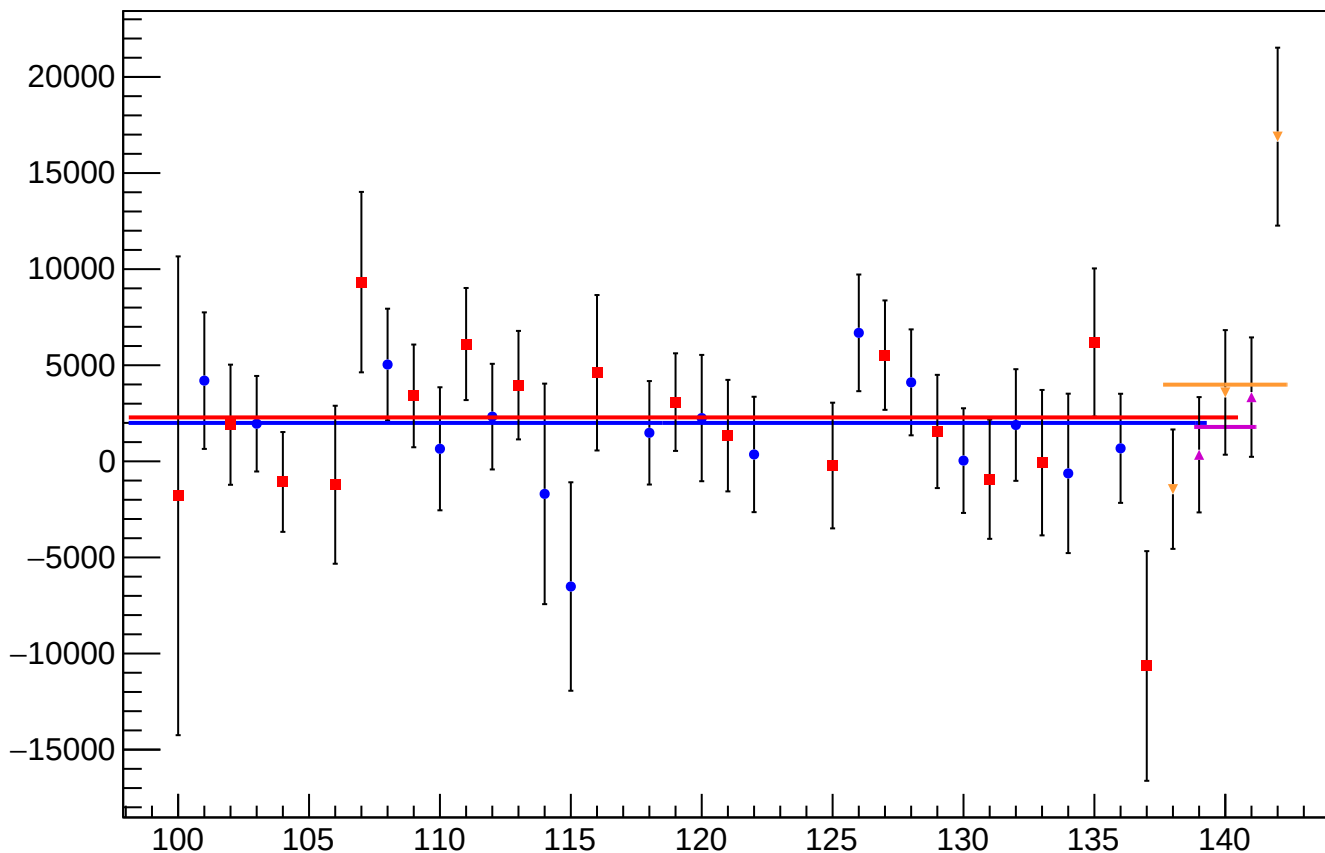
Right: 5849.056+/-1.110 χ^2/NDF : 1207820.8/33

In: 6333.188+/-1.552 χ^2/NDF : 1142893.5/17

Out: 6063.119+/-1.445 χ^2/NDF : 1090843.2/20

All: 6188.542+/-1.058 χ^2/NDF : 2249958.2/38

eigen_dit_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1999.218+/-773.538 χ^2/NDF : 9.0/15

Left Out: 3990.294+/-2018.509 χ^2/NDF :10.8/2

Right Out: 2285.903+/-771.299 χ^2/NDF : 16.7/17

Left In: 1789.659+/-2158.029 χ^2/NDF :0.5/1

Left: 2963.408+/-1474.159 χ^2/NDF : 11.9/4

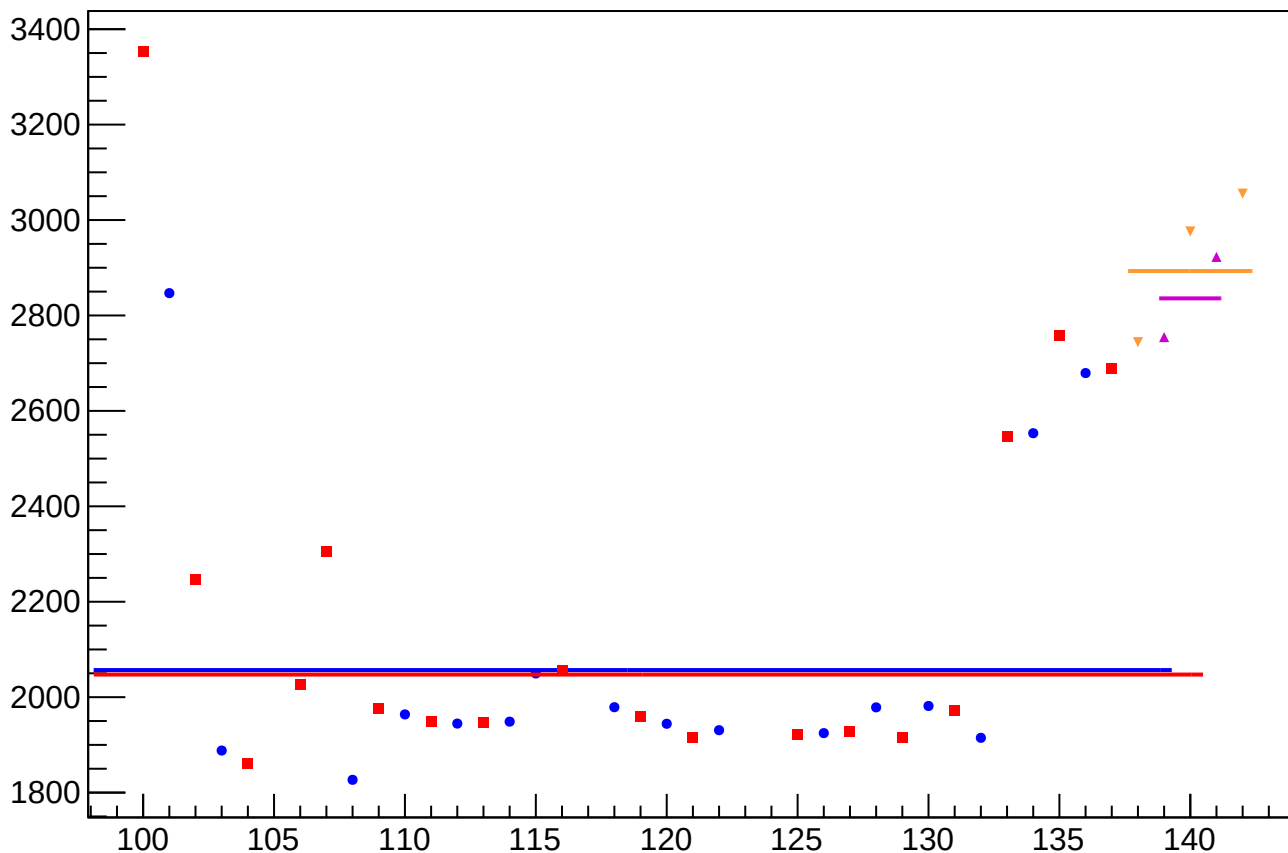
Right: 2142.976+/-546.180 χ^2/NDF : 25.7/33

In: 1975.359+/-728.172 χ^2/NDF :9.5/17

Out: 2503.055+/-720.490 χ^2/NDF :28.1/20

All: 2242.005+/-512.158 χ^2/NDF : 37.9/38

eigen_dit_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2056.796 $\pm$ 0.547 χ^2/NDF : 270454.5/15

Left Out: 2893.152 $\pm$ 1.427 χ^2/NDF : 8369.7/2

Right Out: 2047.400 $\pm$ 0.545 χ^2/NDF : 196523.3/17

Left In: 2835.794 $\pm$ 1.526 χ^2/NDF : 3028.7/1

Left: 2866.387 $\pm$ 1.042 χ^2/NDF : 12152.0/4

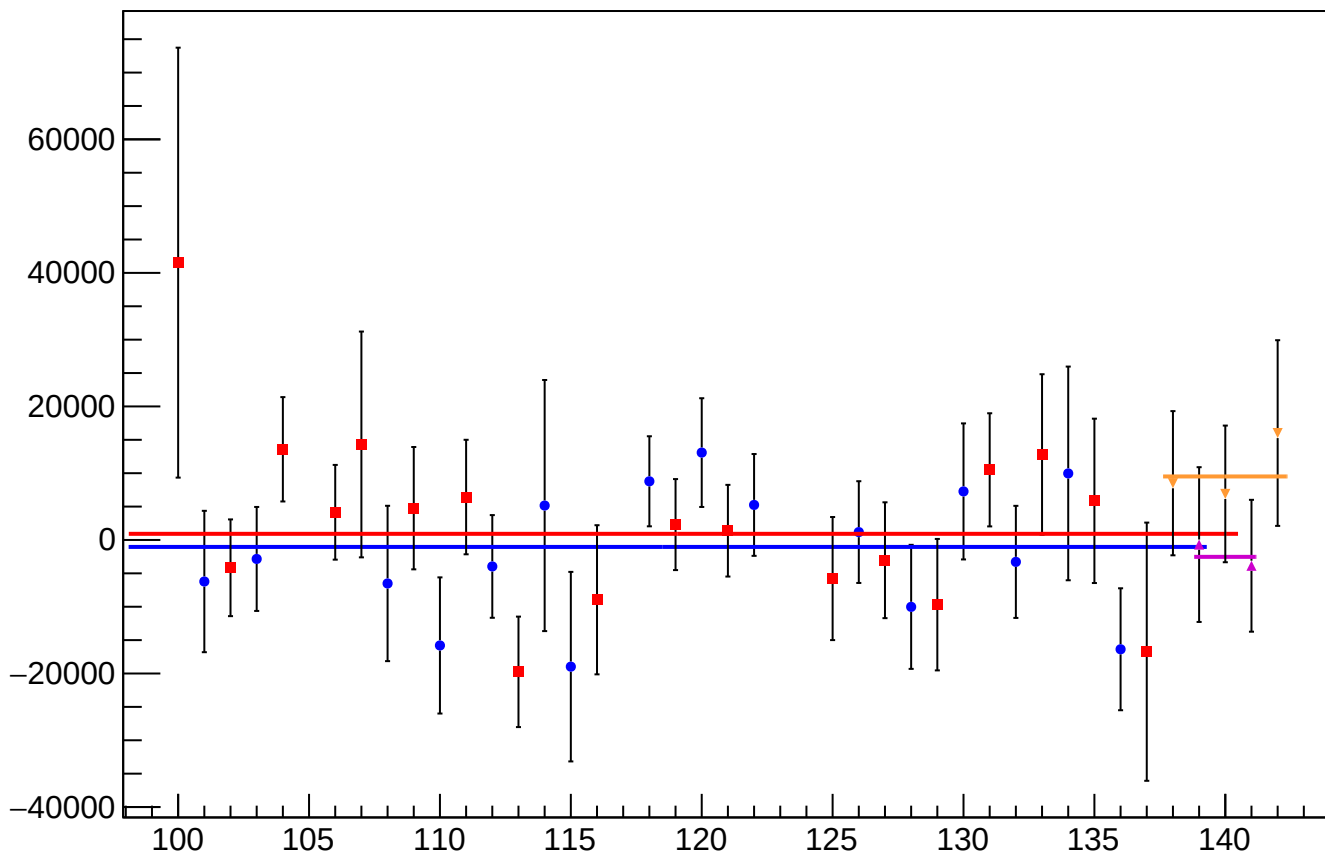
Right: 2052.077 $\pm$ 0.386 χ^2/NDF : 467125.9/33

In: 2145.489 $\pm$ 0.515 χ^2/NDF : 504420.1/17

Out: 2154.872 $\pm$ 0.509 χ^2/NDF : 511394.8/20

All: 2150.236 $\pm$ 0.362 χ^2/NDF : 1015983.0/38

asym_atl2_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1042.503+/-2294.600 χ^2/NDF : 15.3/15

Left Out: 9511.109+/-6551.837 χ^2/NDF : 0.3/2

Right Out: 919.667+/-2150.889 χ^2/NDF : 18.4/17

Left In: -2528.389+/-7516.233 χ^2/NDF : 0.0/1

Left: 4312.832+/-4938.848 χ^2/NDF : 1.8/4

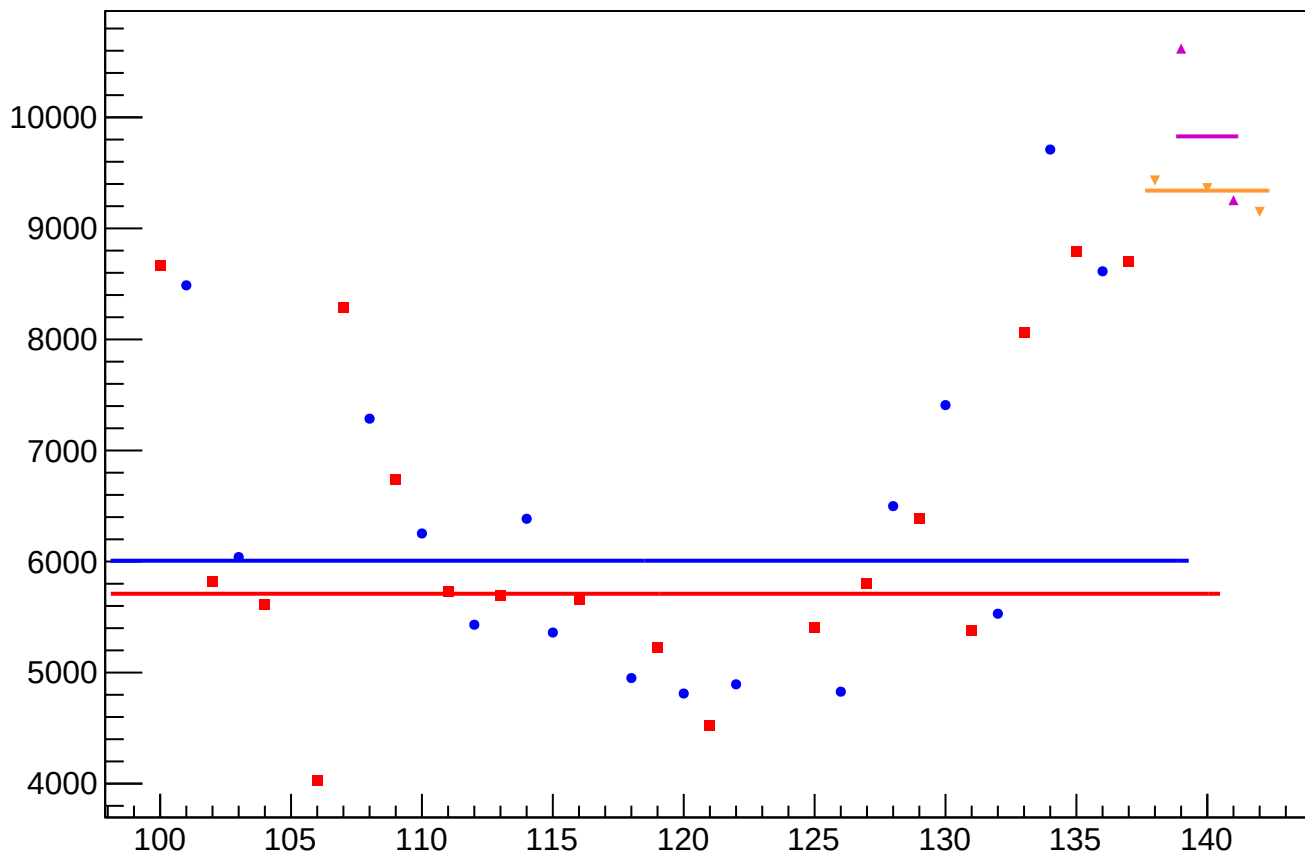
Right: 1.948+/-1569.255 χ^2/NDF : 34.1/33

In: -1169.180+/-2194.609 χ^2/NDF : 15.4/17

Out: 1755.511+/-2043.584 χ^2/NDF : 20.2/20

All: 397.252+/-1495.576 χ^2/NDF : 36.5/38

asym_atl2_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 6007.405+/-1.623 χ^2/NDF : 654004.9/15

Left Out: 9340.526+/-4.633 χ^2/NDF : 532.3/2

Right Out: 5709.885+/-1.521 χ^2/NDF : 535929.9/17

Left In: 9828.504+/-5.315 χ^2/NDF : 16074.1/1

Left: 9551.219+/-3.492 χ^2/NDF : 21396.7/4

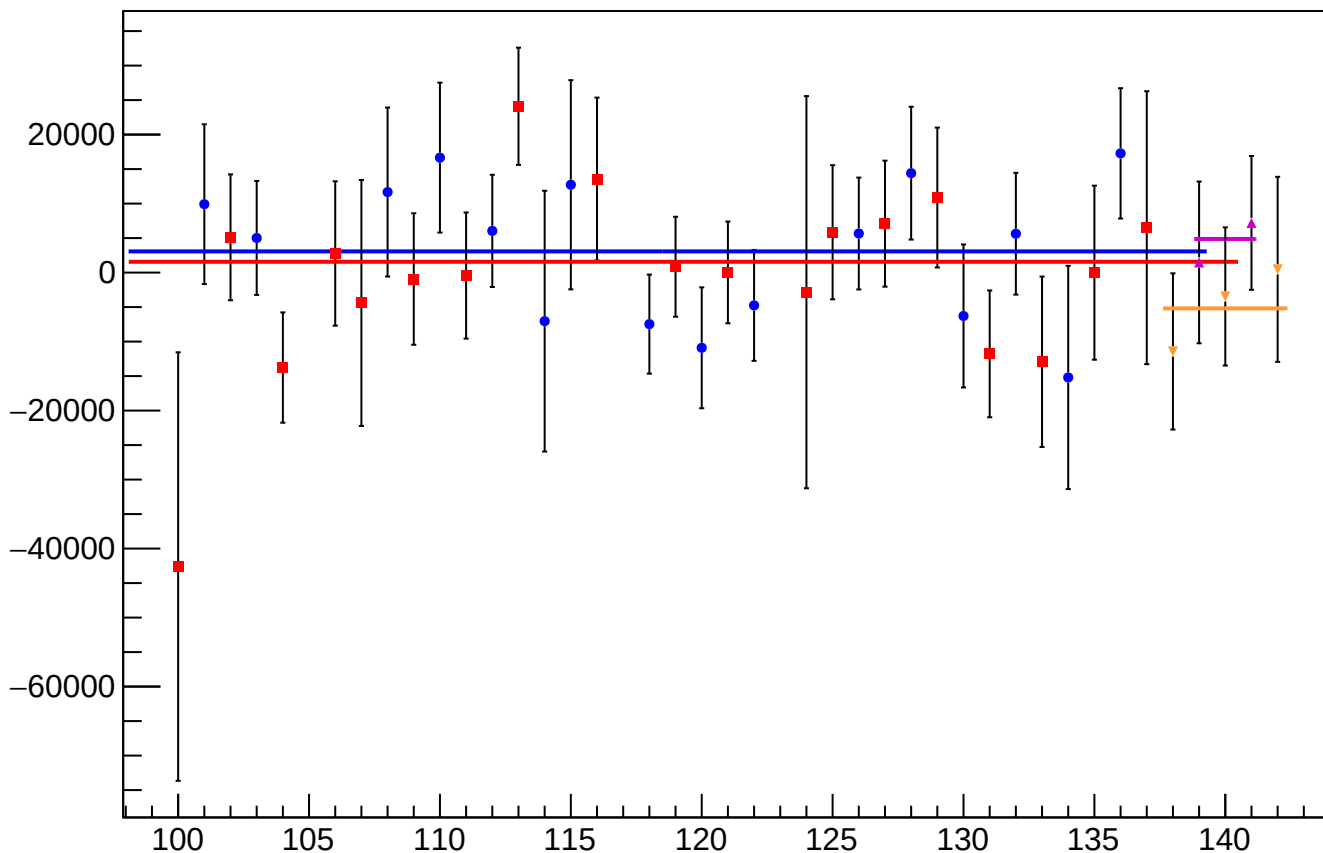
Right: 5849.037+/-1.110 χ^2/NDF : 1207832.6/33

In: 6333.168+/-1.552 χ^2/NDF : 1142910.8/17

Out: 6063.103+/-1.445 χ^2/NDF : 1090857.6/20

All: 6188.524+/-1.058 χ^2/NDF : 2249989.7/38

asym_atl2_mean vs Slug, Sign Corrected



Right In: 3070.293+/-2420.721 χ^2/NDF : 14.9/15

Left Out: -5188.594+/-6546.420 χ^2/NDF : 0.5/2

Right Out: 1567.088+/-2335.884 χ^2/NDF : 19.2/18

Left In: 4874.816+/-7470.180 χ^2/NDF : 0.1/1

Left: -817.246+/-4923.411 χ^2/NDF : 1.7/4

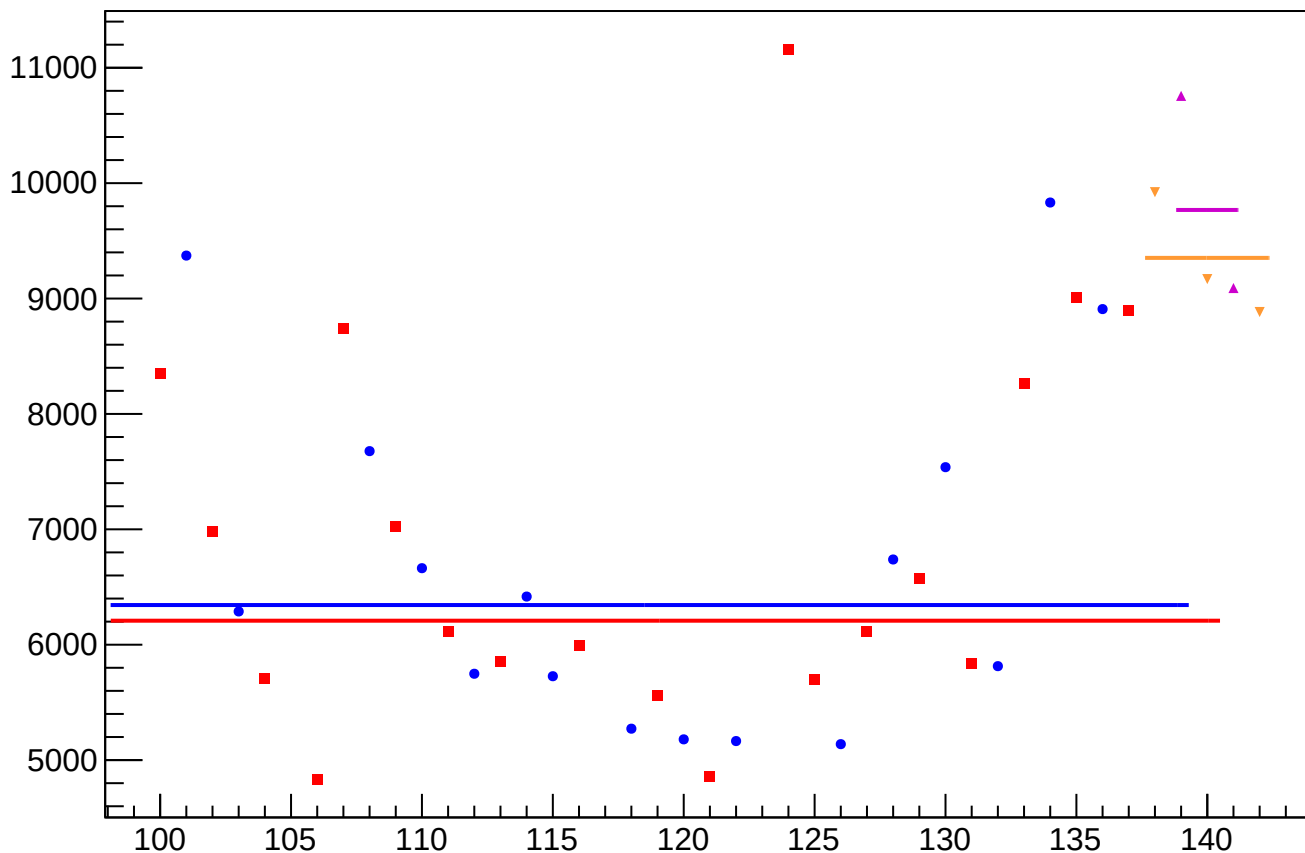
Right: 2291.888+/-1680.911 χ^2/NDF : 34.3/34

In: 3241.777+/-2302.830 χ^2/NDF : 15.1/17

Out: 804.101+/-2200.025 χ^2/NDF : 20.7/21

All: 1967.314+/-1590.755 χ^2/NDF : 36.3/39

asym_atl2_rms vs Slug, Sign Corrected



Right In: 6343.796+/-1.712 χ^2/NDF : 621240.2/15

Left Out: 9352.398+/-4.629 χ^2/NDF : 8180.1/2

Right Out: 6208.099+/-1.652 χ^2/NDF : 471840.9/18

Left In: 9767.752+/-5.282 χ^2/NDF : 23974.6/1

Left: 9532.819+/-3.481 χ^2/NDF : 35652.0/4

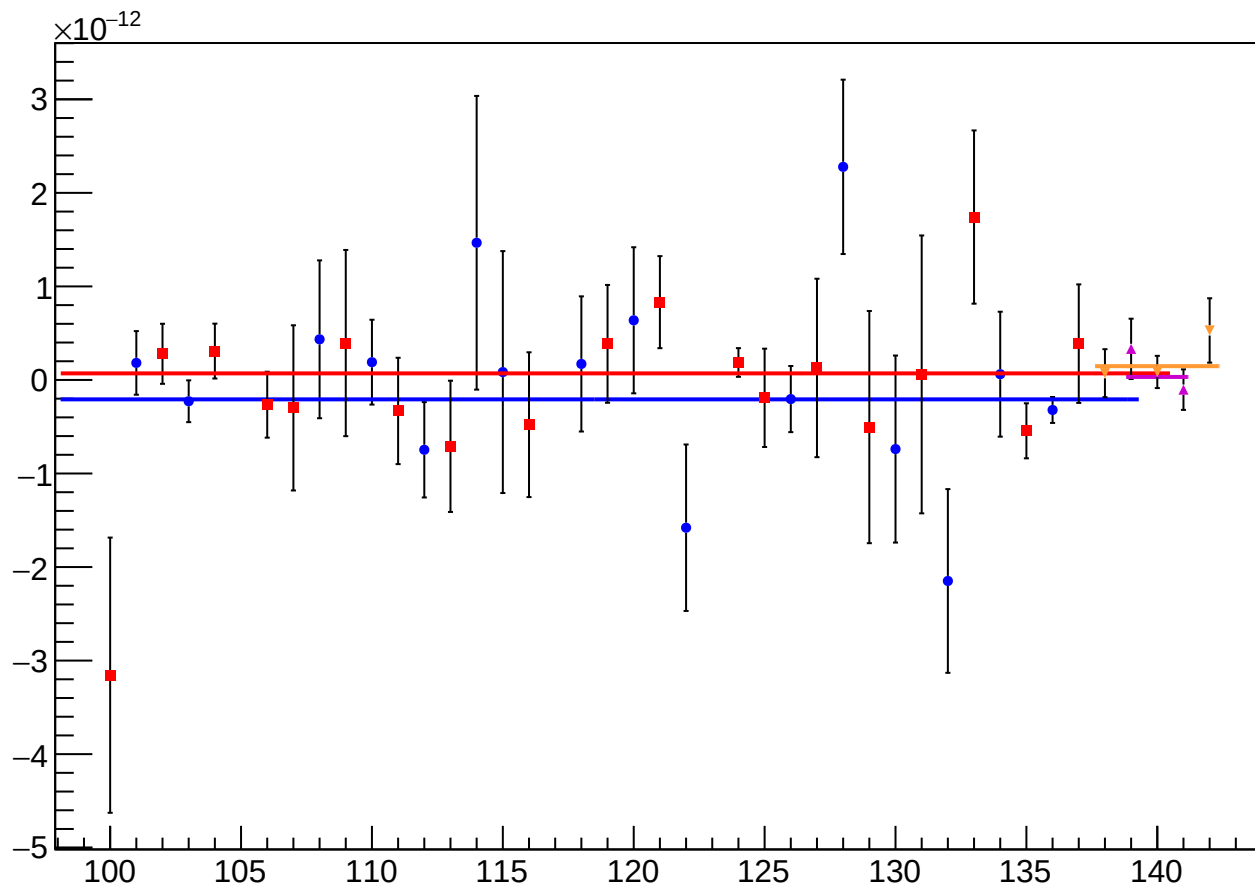
Right: 6273.528+/-1.189 χ^2/NDF : 1096335.5/34

In: 6669.174+/-1.628 χ^2/NDF : 1025455.4/17

Out: 6563.215+/-1.556 χ^2/NDF : 889303.4/21

All: 6613.777+/-1.125 χ^2/NDF : 1916972.5/39

asym_atl2_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 20.9/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:1.4/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 20.9/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:1.3/1

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 3.0/4

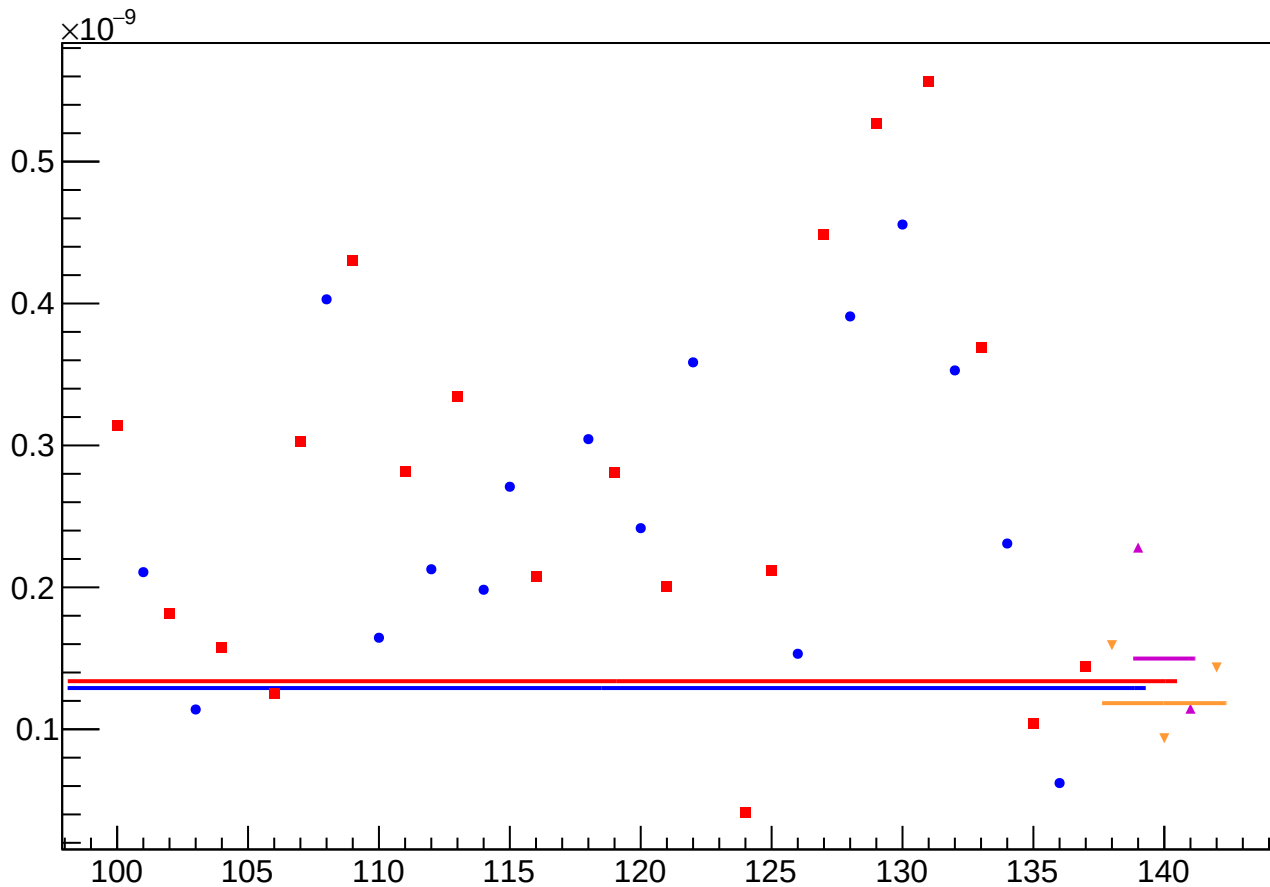
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 46.0/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:23.6/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:22.5/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 51.0/39

asym_atl2_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1720321.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :102606.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2304489.5/18

Left In: 0.000+/-0.000 χ^2/NDF :170750.0/1

Left: 0.000+/-0.000 χ^2/NDF : 313029.4/4

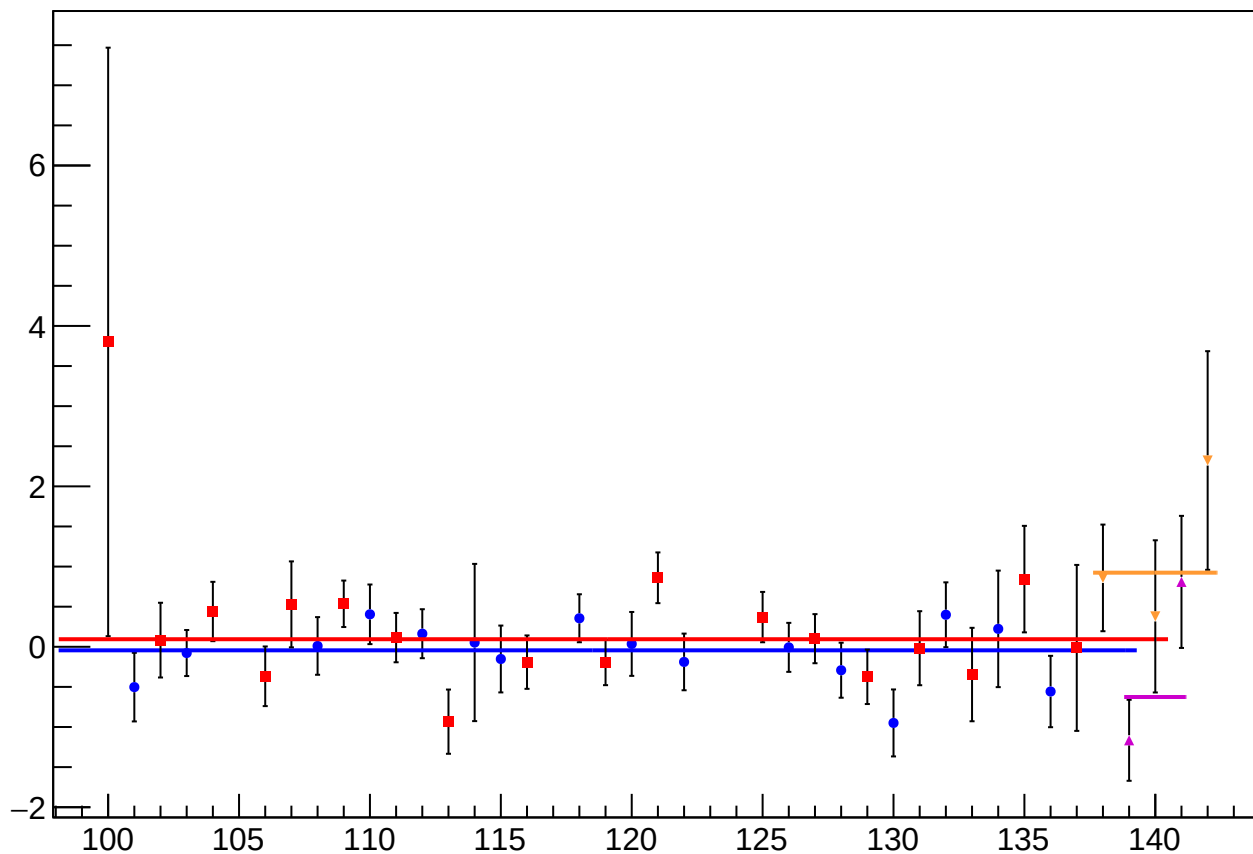
Right: 0.000+/-0.000 χ^2/NDF : 4027379.9/34

In: 0.000+/-0.000 χ^2/NDF :1911940.2/17

Out: 0.000+/-0.000 χ^2/NDF :2425101.8/21

All: 0.000+/-0.000 χ^2/NDF : 4340930.4/39

asym_atl2_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.044 ± 0.094 $\chi^2/\text{NDF}: 13.1/15$

Left Out: 0.924 ± 0.506 $\chi^2/\text{NDF}: 1.4/2$

Right Out: 0.094 ± 0.090 $\chi^2/\text{NDF}: 25.3/17$

Left In: -0.626 ± 0.430 $\chi^2/\text{NDF}: 4.2/1$

Left: 0.025 ± 0.328 $\chi^2/\text{NDF}: 11.0/4$

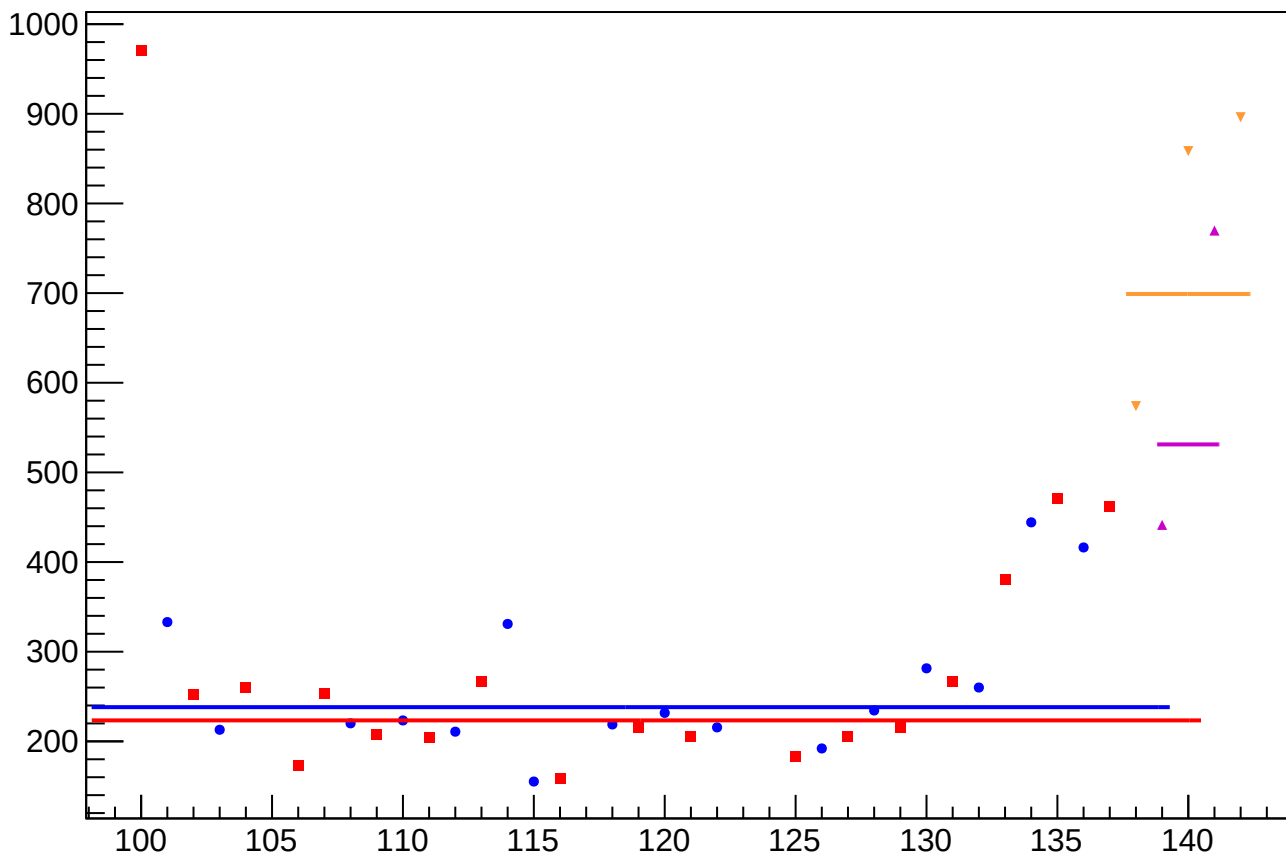
Right: 0.028 ± 0.065 $\chi^2/\text{NDF}: 39.5/33$

In: -0.070 ± 0.092 $\chi^2/\text{NDF}: 19.0/17$

Out: 0.120 ± 0.089 $\chi^2/\text{NDF}: 29.3/20$

All: 0.028 ± 0.064 $\chi^2/\text{NDF}: 50.5/38$

asym_atl2_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 238.165+/-0.066 χ^2/NDF : 807205.2/15

Left Out: 699.042+/-0.357 χ^2/NDF : 169121.0/2

Right Out: 223.388+/-0.064 χ^2/NDF : 862425.5/17

Left In: 531.227+/-0.304 χ^2/NDF : 231036.6/1

Left: 601.756+/-0.232 χ^2/NDF : 527923.4/4

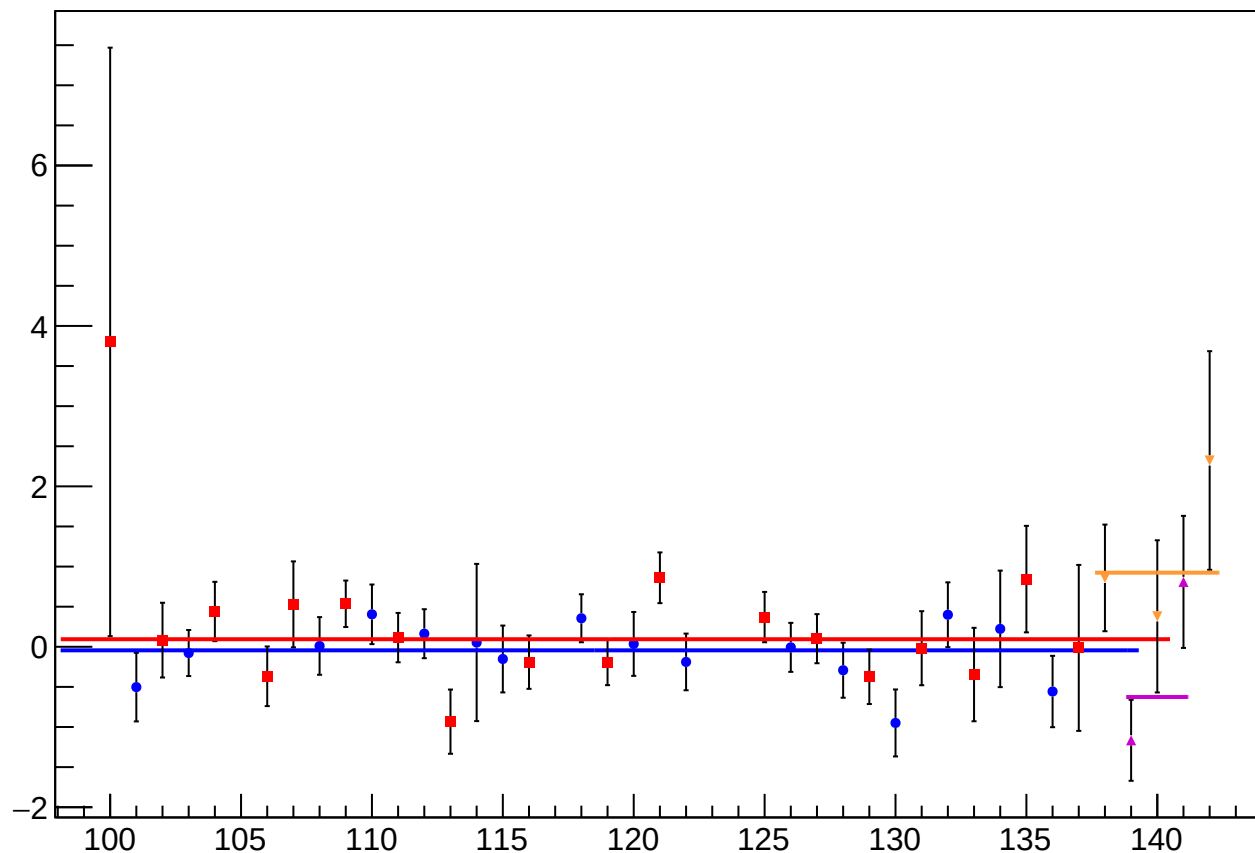
Right: 230.474+/-0.046 χ^2/NDF : 1695464.7/33

In: 251.451+/-0.065 χ^2/NDF : 1923330.5/17

Out: 238.011+/-0.063 χ^2/NDF : 2747682.2/20

All: 244.507+/-0.045 χ^2/NDF : 4693234.0/38

asym_atl2_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.044 ± 0.094 χ^2/NDF : 13.1/15

Left Out: 0.924 ± 0.506 χ^2/NDF : 1.4/2

Right Out: 0.094 ± 0.090 χ^2/NDF : 25.3/17

Left In: -0.626 ± 0.430 χ^2/NDF : 4.2/1

Left: 0.025 ± 0.328 χ^2/NDF : 11.0/4

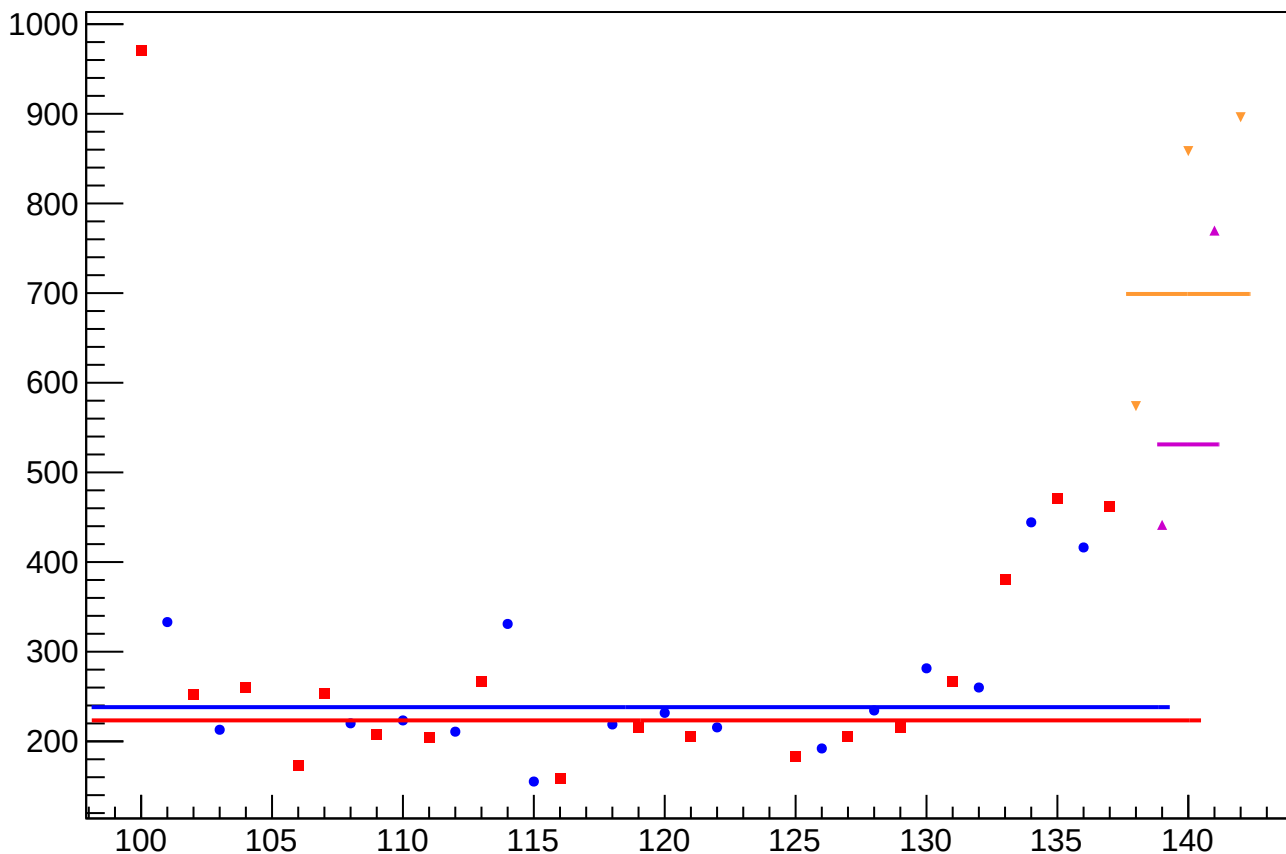
Right: 0.028 ± 0.065 χ^2/NDF : 39.5/33

In: -0.070 ± 0.092 χ^2/NDF : 19.0/17

Out: 0.120 ± 0.089 χ^2/NDF : 29.3/20

All: 0.028 ± 0.064 χ^2/NDF : 50.5/38

asym_atl2_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 238.165+/-0.066 χ^2/NDF : 807205.2/15

Left Out: 699.042+/-0.357 χ^2/NDF :169121.0/2

Right Out: 223.388+/-0.064 χ^2/NDF : 862425.5/17

Left In: 531.227+/-0.304 χ^2/NDF :231036.6/1

Left: 601.756+/-0.232 χ^2/NDF : 527923.4/4

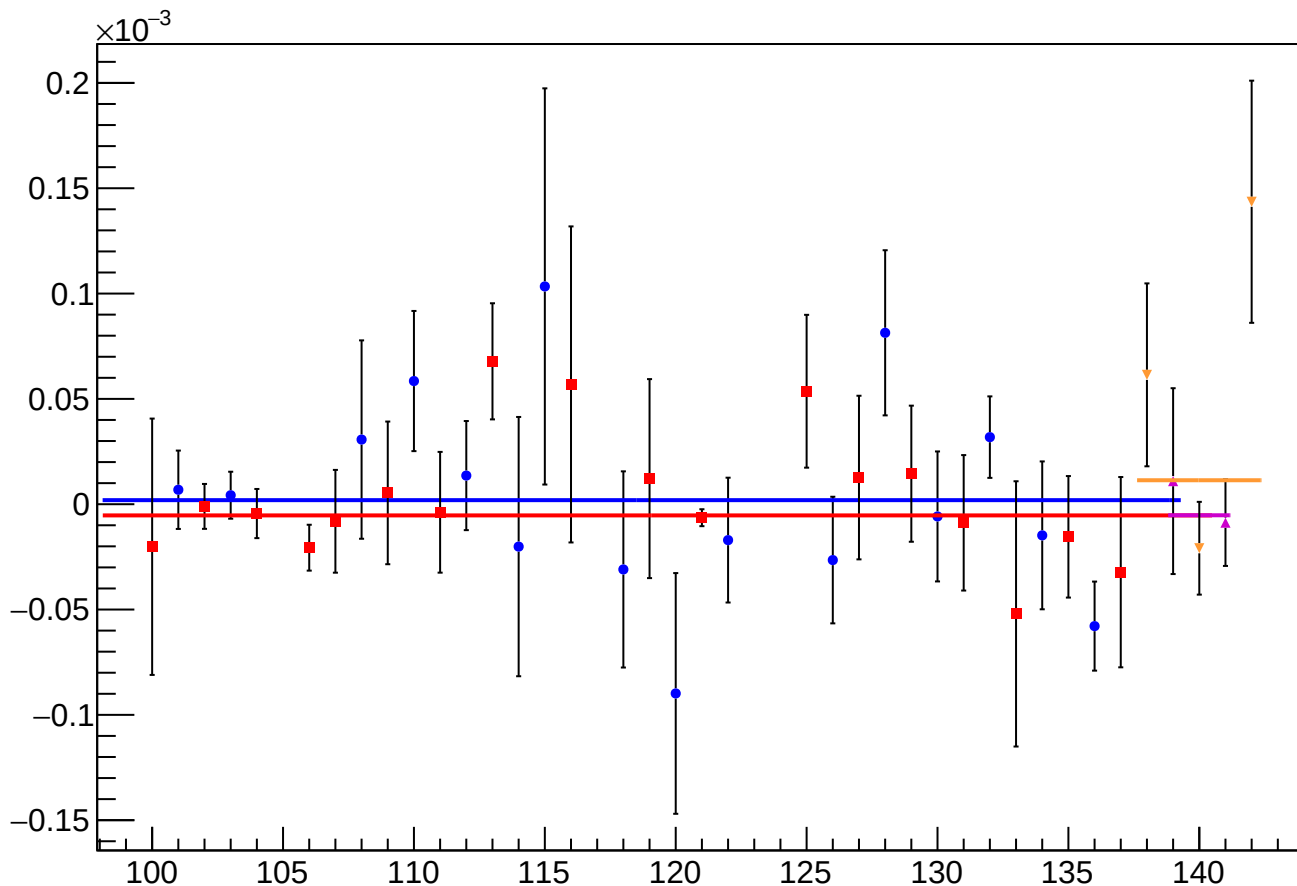
Right: 230.474+/-0.046 χ^2/NDF : 1695464.7/33

In: 251.451+/-0.065 χ^2/NDF :1923330.5/17

Out: 238.011+/-0.063 χ^2/NDF :2747682.2/20

All: 244.507+/-0.045 χ^2/NDF : 4693234.0/38

asym_atl2_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 24.0/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:8.8/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 14.5/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:0.2/1

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 9.3/4

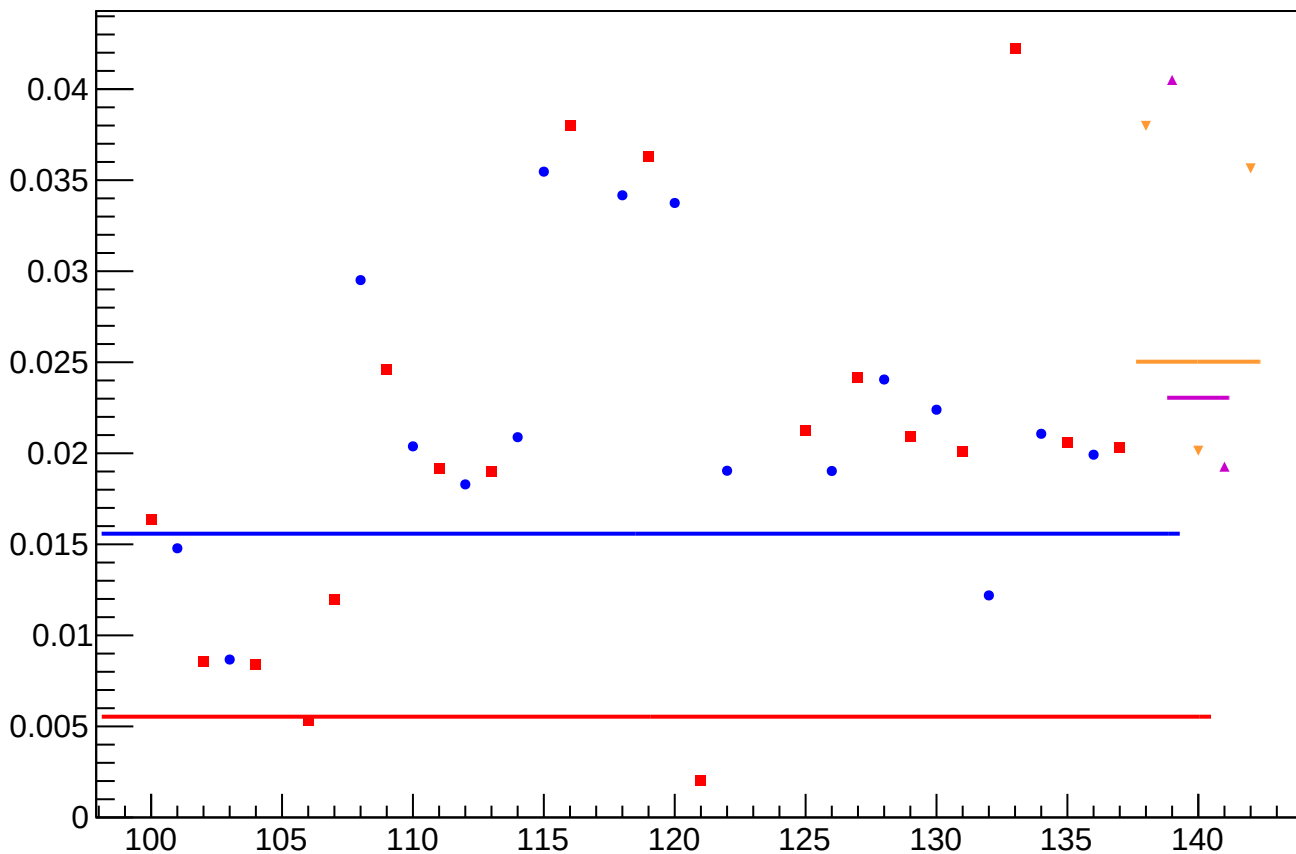
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 39.6/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF:24.3/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:24.1/20

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 49.2/38

asym_atl2_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 2074656.7/15

Left Out: 0.025+/-0.000 χ^2/NDF :344818.1/2

Right Out: 0.006+/-0.000 χ^2/NDF : 7954965.8/17

Left In: 0.023+/-0.000 χ^2/NDF :381019.9/1

Left: 0.024+/-0.000 χ^2/NDF : 737177.7/4

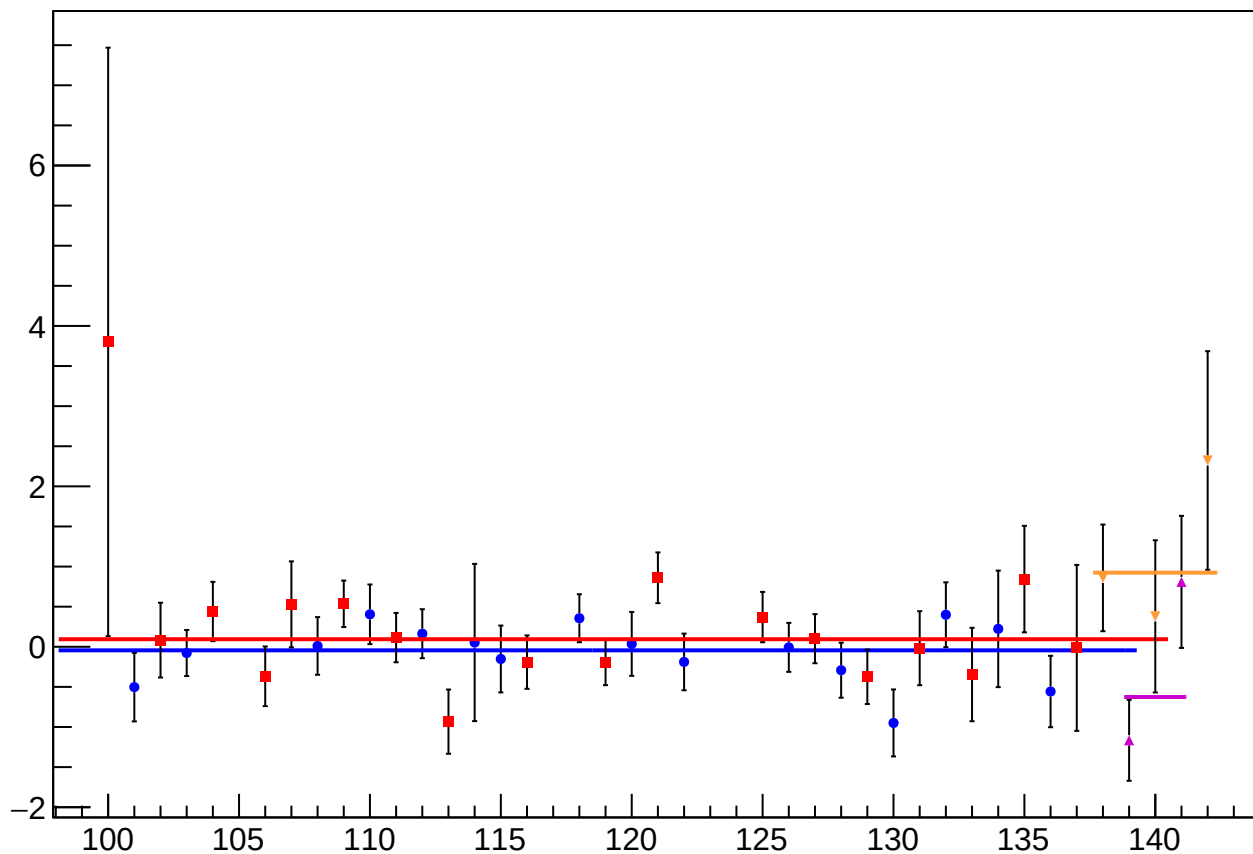
Right: 0.008+/-0.000 χ^2/NDF : 13999634.8/33

In: 0.016+/-0.000 χ^2/NDF :2743436.2/17

Out: 0.006+/-0.000 χ^2/NDF :10437456.2/20

All: 0.008+/-0.000 χ^2/NDF : 17737181.6/38

asym_atl2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.044 ± 0.094 χ^2/NDF : 13.1/15

Left Out: 0.924 ± 0.506 χ^2/NDF : 1.4/2

Right Out: 0.094 ± 0.090 χ^2/NDF : 25.3/17

Left In: -0.626 ± 0.430 χ^2/NDF : 4.2/1

Left: 0.026 ± 0.328 χ^2/NDF : 11.0/4

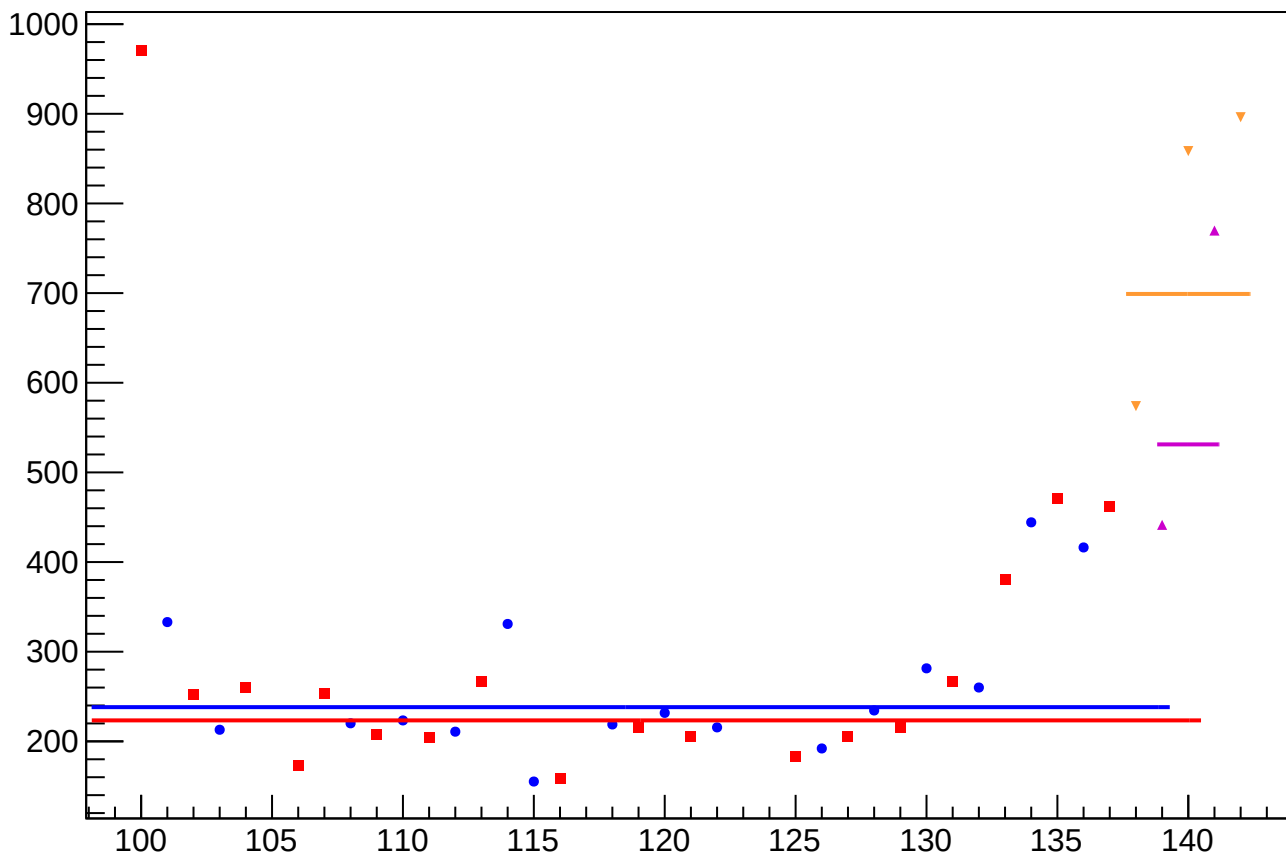
Right: 0.028 ± 0.065 χ^2/NDF : 39.5/33

In: -0.070 ± 0.092 χ^2/NDF : 19.0/17

Out: 0.120 ± 0.089 χ^2/NDF : 29.3/20

All: 0.028 ± 0.064 χ^2/NDF : 50.5/38

asym_atl2_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 238.165+/-0.066 χ^2/NDF : 807170.1/15

Left Out: 699.049+/-0.357 χ^2/NDF :169130.8/2

Right Out: 223.390+/-0.064 χ^2/NDF : 862366.3/17

Left In: 531.241+/-0.304 χ^2/NDF :231024.9/1

Left: 601.768+/-0.232 χ^2/NDF : 527906.2/4

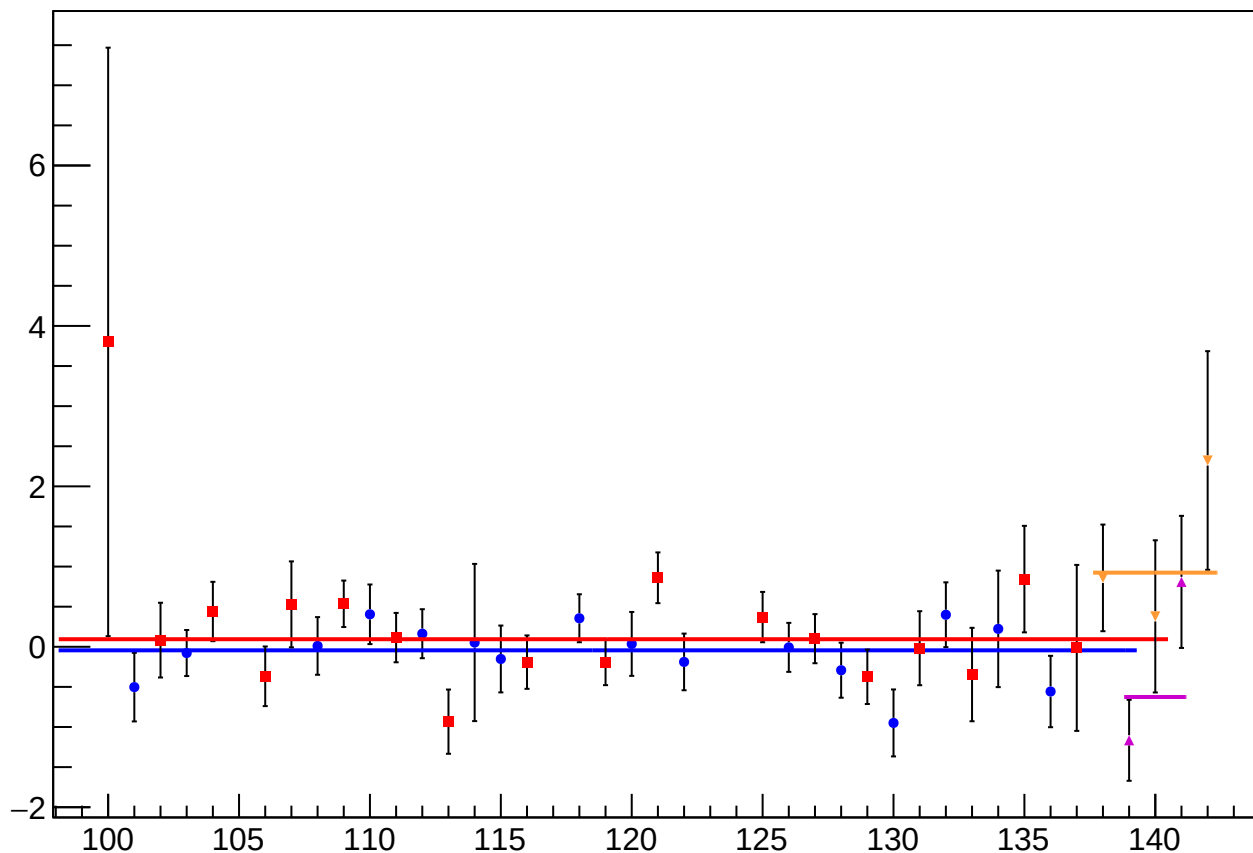
Right: 230.475+/-0.046 χ^2/NDF : 1695367.2/33

In: 251.451+/-0.065 χ^2/NDF :1923322.6/17

Out: 238.013+/-0.063 χ^2/NDF :2747636.7/20

All: 244.508+/-0.045 χ^2/NDF : 4693177.8/38

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.044 ± 0.094 χ^2/NDF : 13.1/15

Left Out: 0.924 ± 0.506 χ^2/NDF : 1.4/2

Right Out: 0.094 ± 0.090 χ^2/NDF : 25.3/17

Left In: -0.626 ± 0.430 χ^2/NDF : 4.2/1

Left: 0.026 ± 0.328 χ^2/NDF : 11.0/4

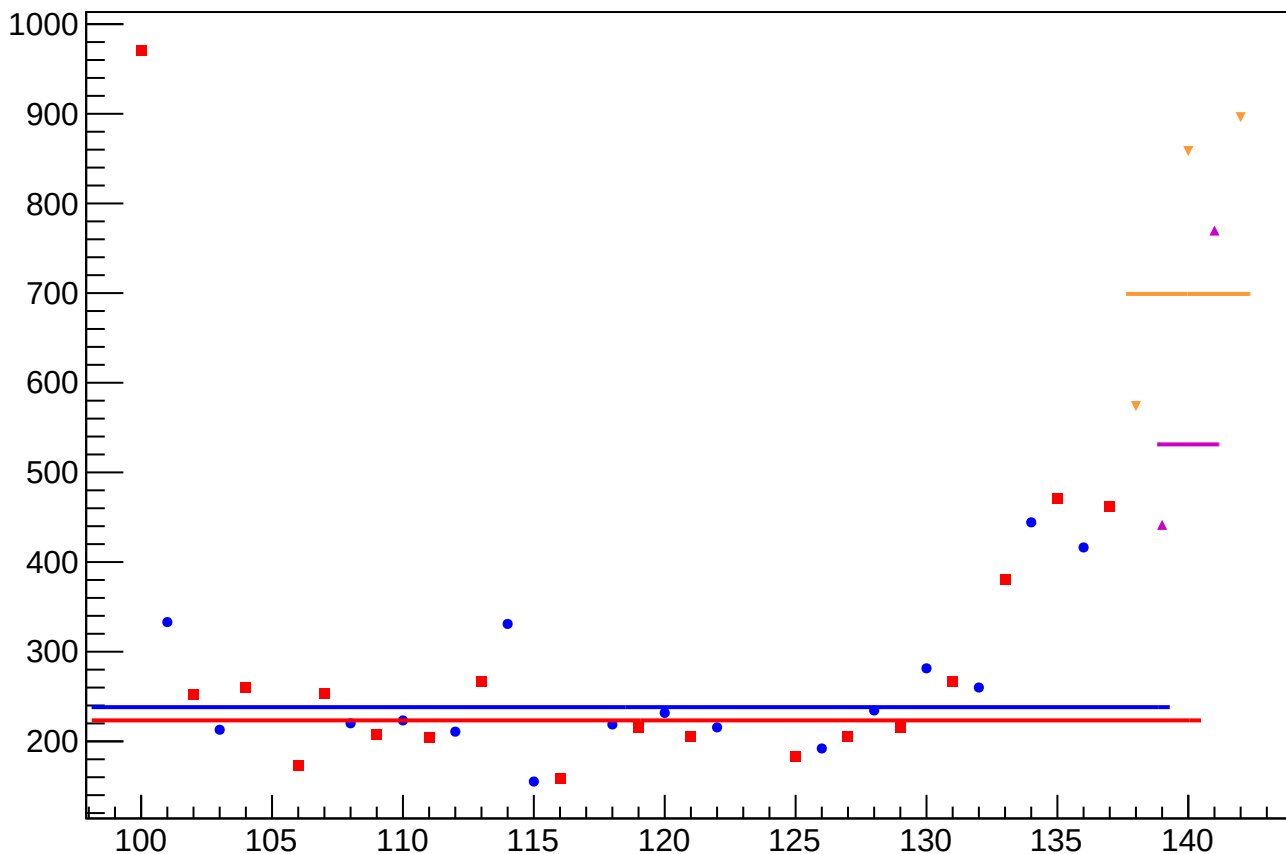
Right: 0.028 ± 0.065 χ^2/NDF : 39.5/33

In: -0.070 ± 0.092 χ^2/NDF : 19.0/17

Out: 0.120 ± 0.089 χ^2/NDF : 29.3/20

All: 0.028 ± 0.064 χ^2/NDF : 50.5/38

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 238.165+/-0.066 χ^2/NDF : 807170.1/15

Left Out: 699.049+/-0.357 χ^2/NDF : 169130.8/2

Right Out: 223.390+/-0.064 χ^2/NDF : 862366.3/17

Left In: 531.241+/-0.304 χ^2/NDF : 231024.9/1

Left: 601.768+/-0.232 χ^2/NDF : 527906.2/4

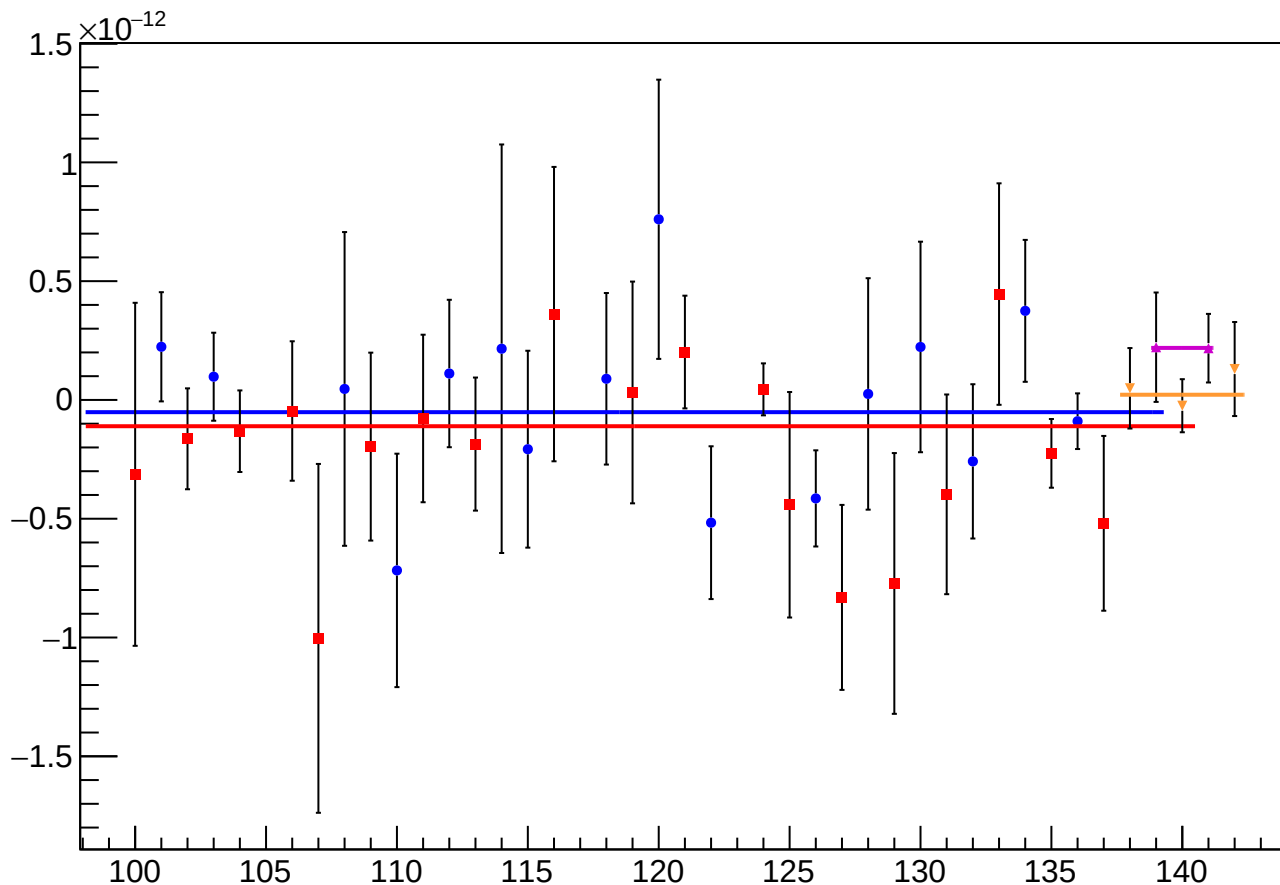
Right: 230.475+/-0.046 χ^2/NDF : 1695367.2/33

In: 251.451+/-0.065 χ^2/NDF : 1923322.6/17

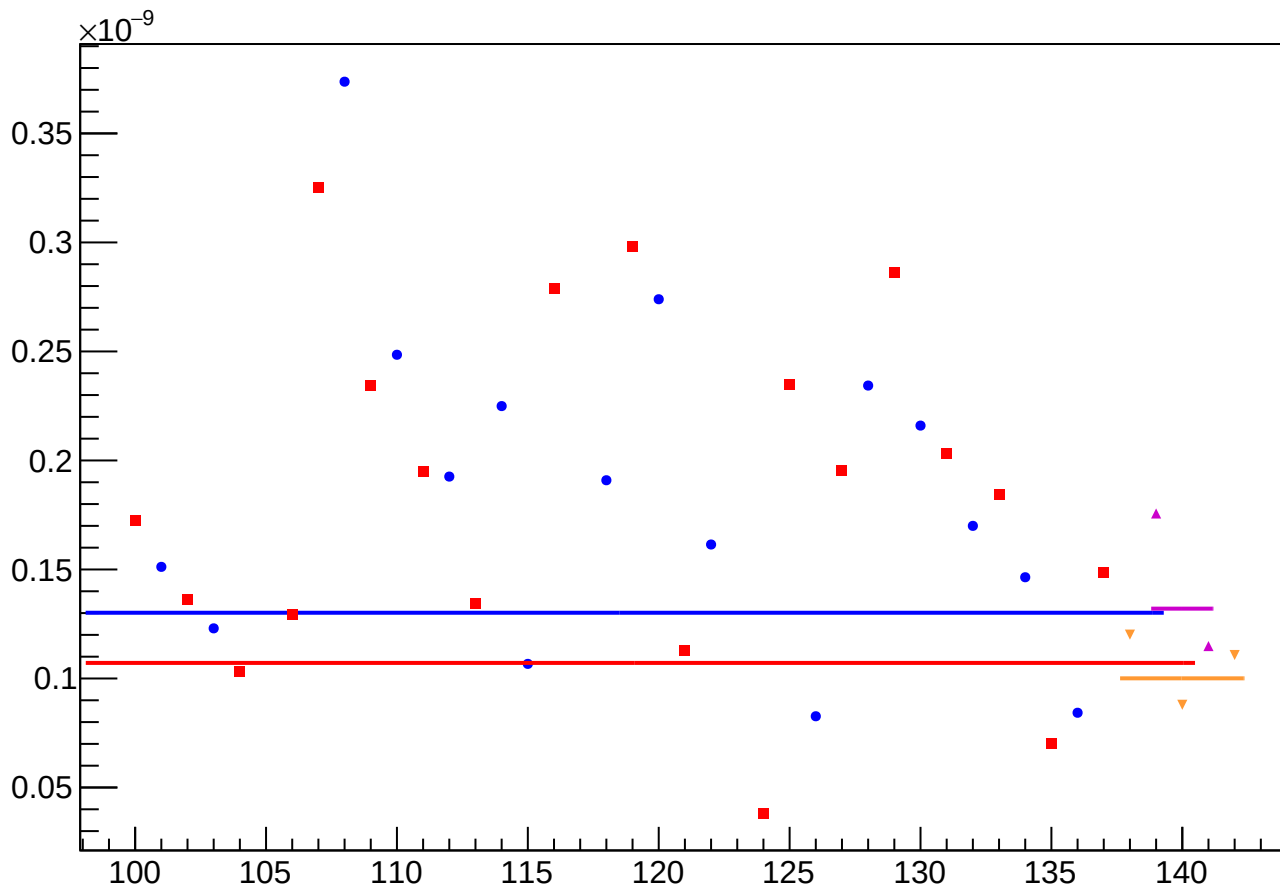
Out: 238.013+/-0.063 χ^2/NDF : 2747636.7/20

All: 244.508+/-0.045 χ^2/NDF : 4693177.8/38

asym_atl2_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



asym_atl2_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1334266.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 57426.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2656168.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 100143.7/1

Left: 0.000+/-0.000 χ^2/NDF : 250132.6/4

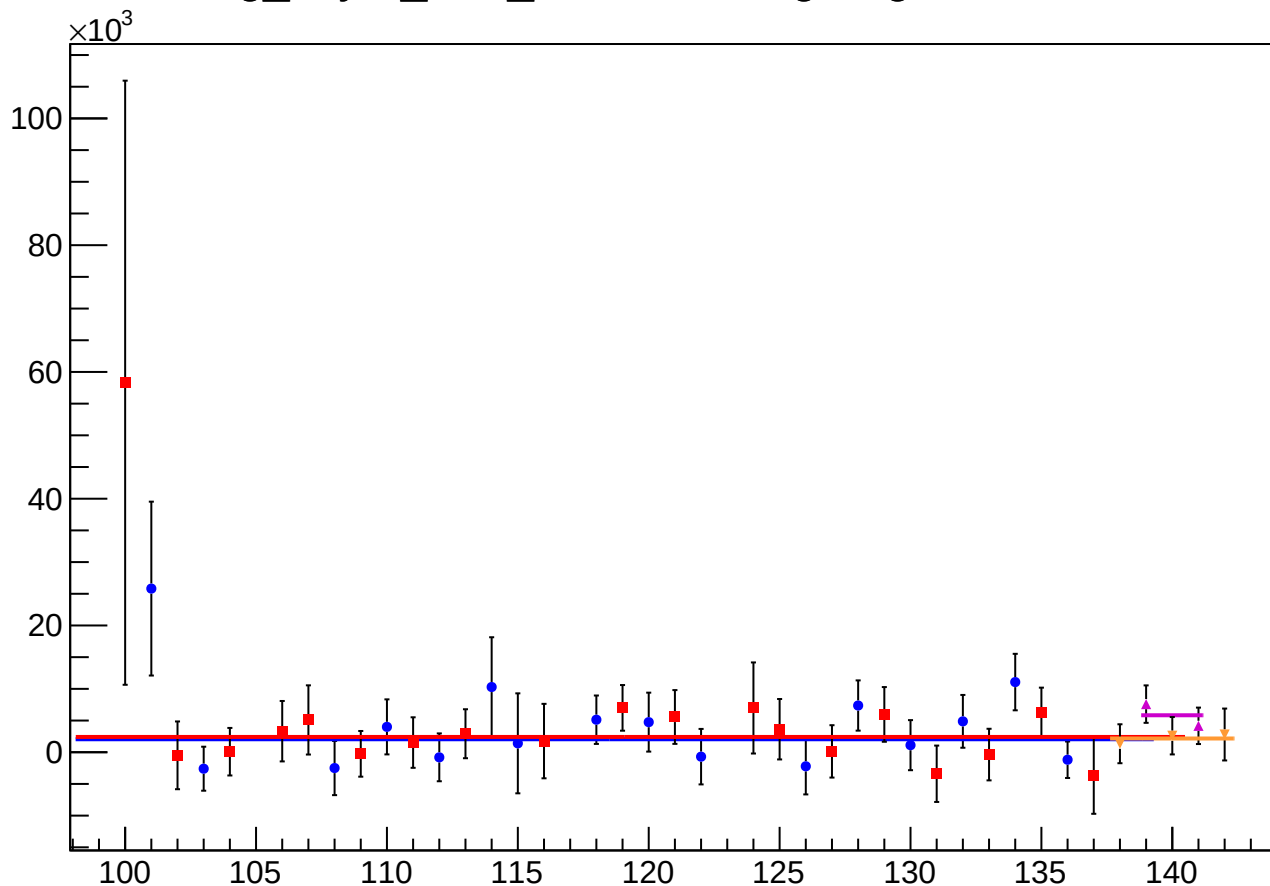
Right: 0.000+/-0.000 χ^2/NDF : 4122173.2/34

In: 0.000+/-0.000 χ^2/NDF : 1434772.6/17

Out: 0.000+/-0.000 χ^2/NDF : 2723035.2/21

All: 0.000+/-0.000 χ^2/NDF : 4385685.9/39

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2049.493 $\pm$ 1070.395 χ^2/NDF : 17.8/15

Left Out: 2167.663 $\pm$ 1887.903 χ^2/NDF : 0.1/2

Right Out: 2411.858 $\pm$ 1035.471 χ^2/NDF : 10.8/18

Left In: 5833.176 $\pm$ 2059.981 χ^2/NDF : 0.7/1

Left: 3840.953 $\pm$ 1391.815 χ^2/NDF : 2.5/4

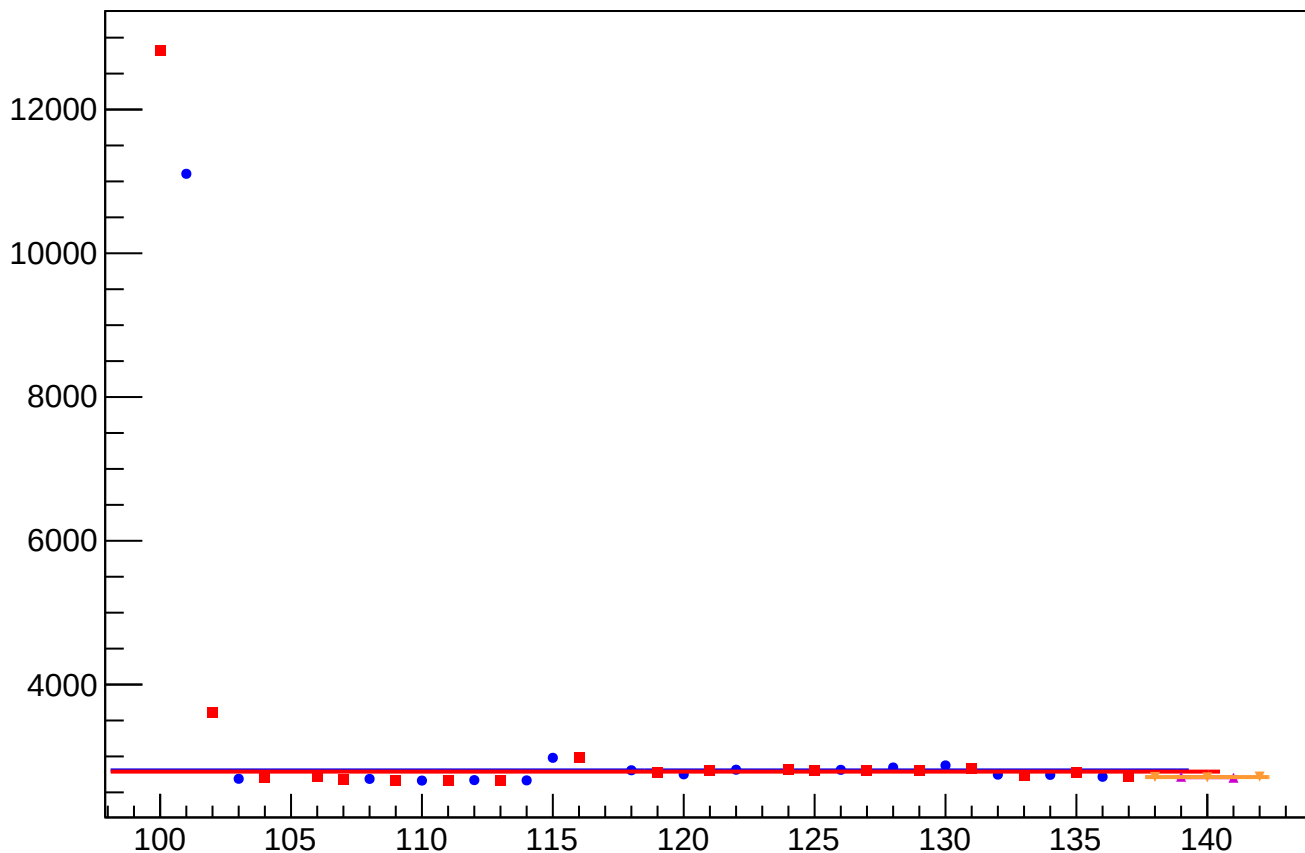
Right: 2236.684 $\pm$ 744.229 χ^2/NDF : 28.6/34

In: 2853.896 $\pm$ 949.823 χ^2/NDF : 21.1/17

Out: 2355.386 $\pm$ 907.879 χ^2/NDF : 10.9/21

All: 2593.391 $\pm$ 656.295 χ^2/NDF : 32.2/39

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2805.446+/-0.757 χ^2/NDF : 746240.6/15

Left Out: 2712.901+/-1.335 χ^2/NDF :10.1/2

Right Out: 2788.820+/-0.732 χ^2/NDF : 146998.3/18

Left In: 2710.852+/-1.457 χ^2/NDF :21.6/1

Left: 2711.966+/-0.984 χ^2/NDF : 32.8/4

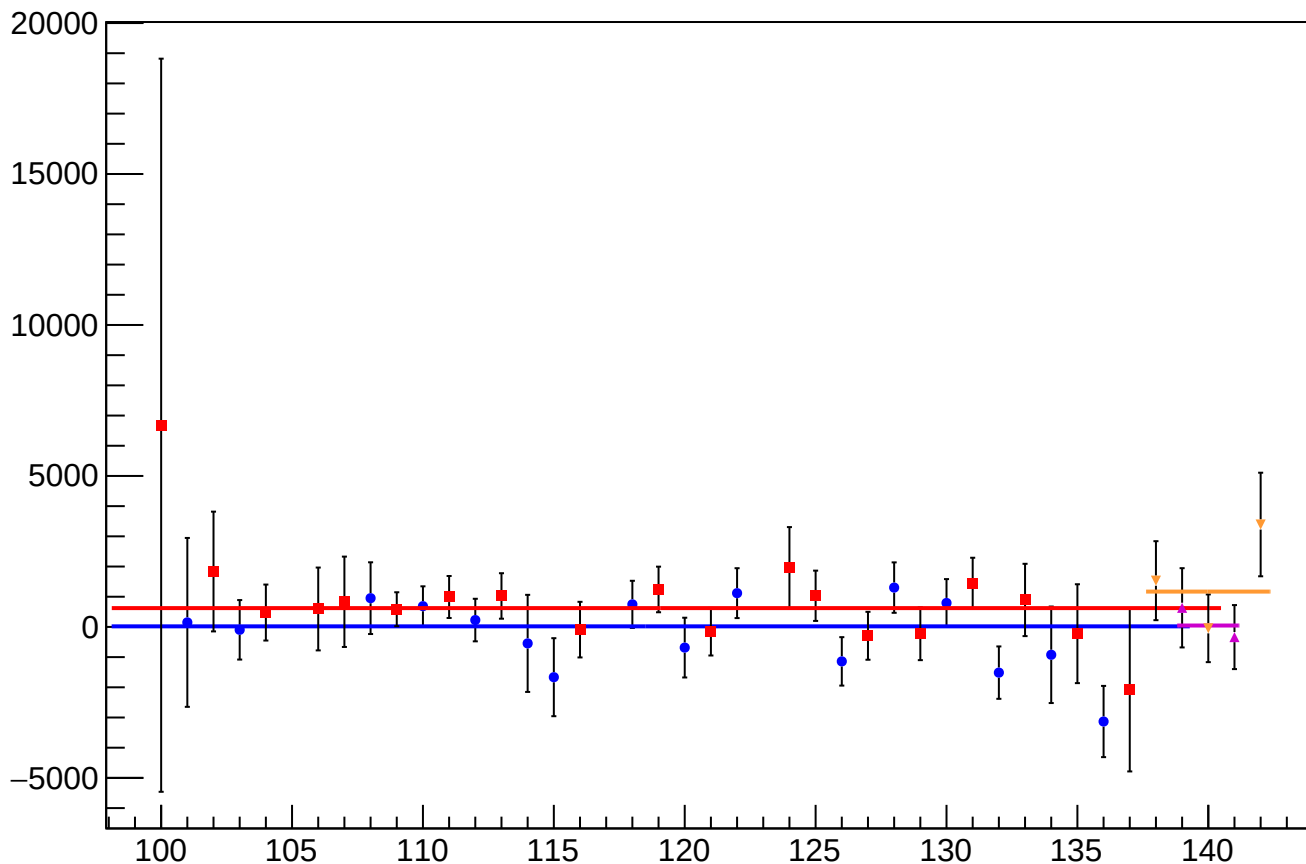
Right: 2796.857+/-0.526 χ^2/NDF : 893488.2/34

In: 2785.335+/-0.672 χ^2/NDF :749582.9/17

Out: 2771.263+/-0.642 χ^2/NDF :149494.7/21

All: 2777.982+/-0.464 χ^2/NDF : 899307.0/39

asym_atr1_reg_correction_mean vs Slug, Sign Corrected



Right In: 18.981+/-233.483 χ^2/NDF : 22.8/15

Left Out: 1170.273+/-762.580 χ^2/NDF : 2.9/2

Right Out: 623.107+/-215.948 χ^2/NDF : 9.3/18

Left In: 46.234+/-824.664 χ^2/NDF : 0.3/1

Left: 652.152+/-559.889 χ^2/NDF : 4.3/4

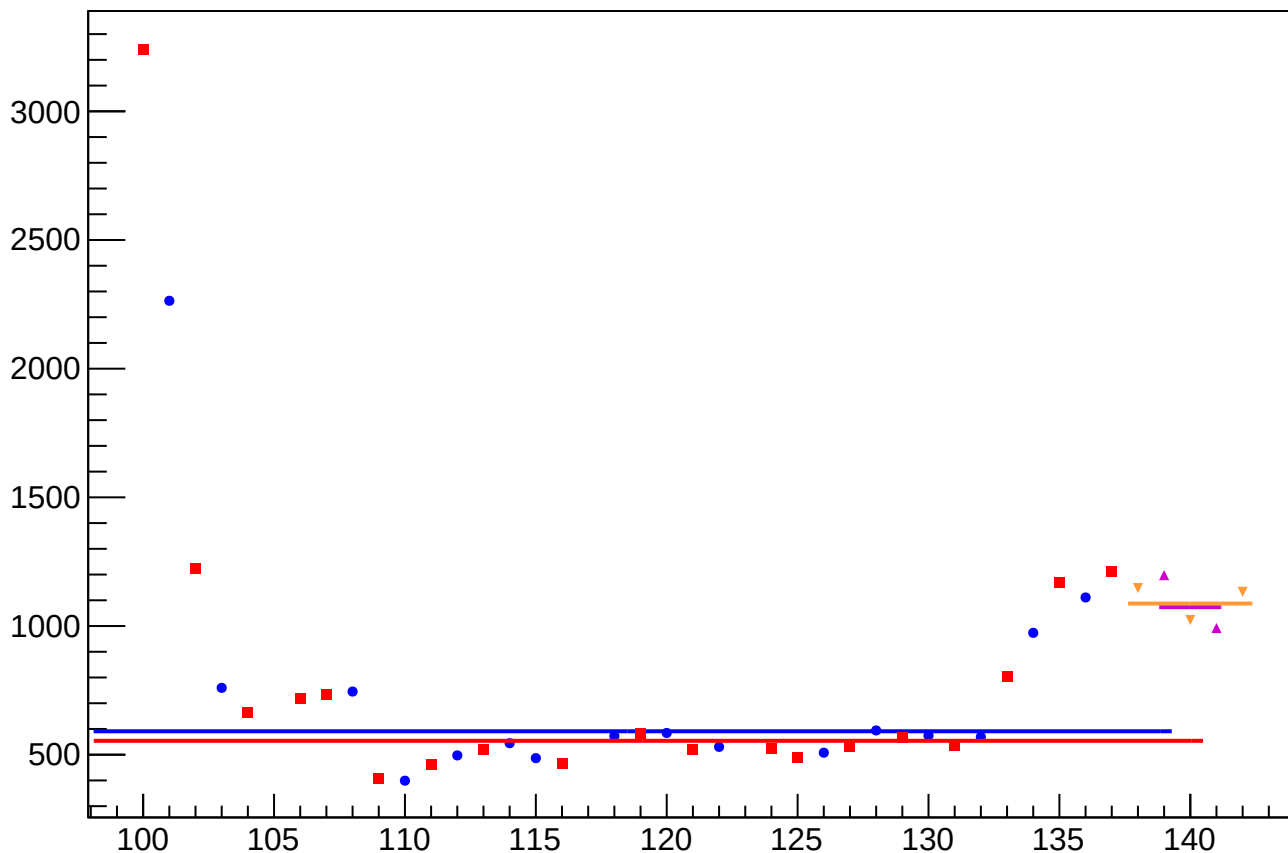
Right: 344.579+/-158.535 χ^2/NDF : 35.6/34

In: 21.003+/-224.652 χ^2/NDF : 23.1/17

Out: 663.728+/-207.778 χ^2/NDF : 12.7/21

All: 367.408+/-152.538 χ^2/NDF : 40.2/39

asym_atr1_reg_correction_rms vs Slug, Sign Corrected



Right In: 591.041+/-0.165 χ^2/NDF : 1567663.5/15

Left Out: 1087.320+/-0.539 χ^2/NDF :12093.5/2

Right Out: 553.982+/-0.153 χ^2/NDF : 1116915.2/18

Left In: 1073.429+/-0.583 χ^2/NDF :29642.3/1

Left: 1080.917+/-0.396 χ^2/NDF : 42041.7/4

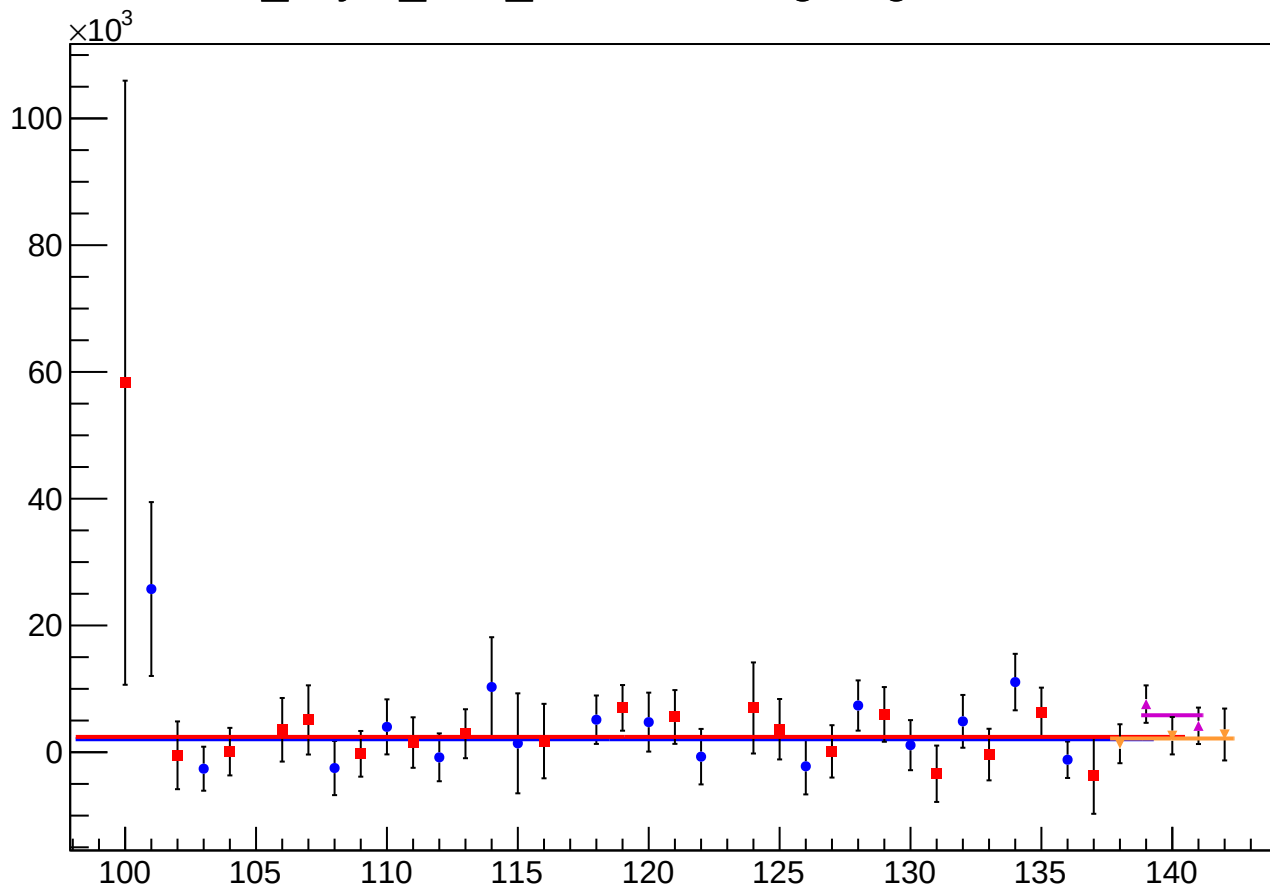
Right: 571.068+/-0.112 χ^2/NDF : 2711735.0/34

In: 626.840+/-0.159 χ^2/NDF :2230857.2/17

Out: 593.576+/-0.147 χ^2/NDF :2034665.3/21

All: 608.912+/-0.108 χ^2/NDF : 4289155.1/39

cor_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2048.688 $\pm$ 1070.395 χ^2/NDF : 17.8/15

Left Out: 2167.705 $\pm$ 1887.903 χ^2/NDF : 0.1/2

Right Out: 2417.909 $\pm$ 1037.856 χ^2/NDF : 10.8/18

Left In: 5833.655 $\pm$ 2059.981 χ^2/NDF : 0.7/1

Left: 3841.194 $\pm$ 1391.815 χ^2/NDF : 2.5/4

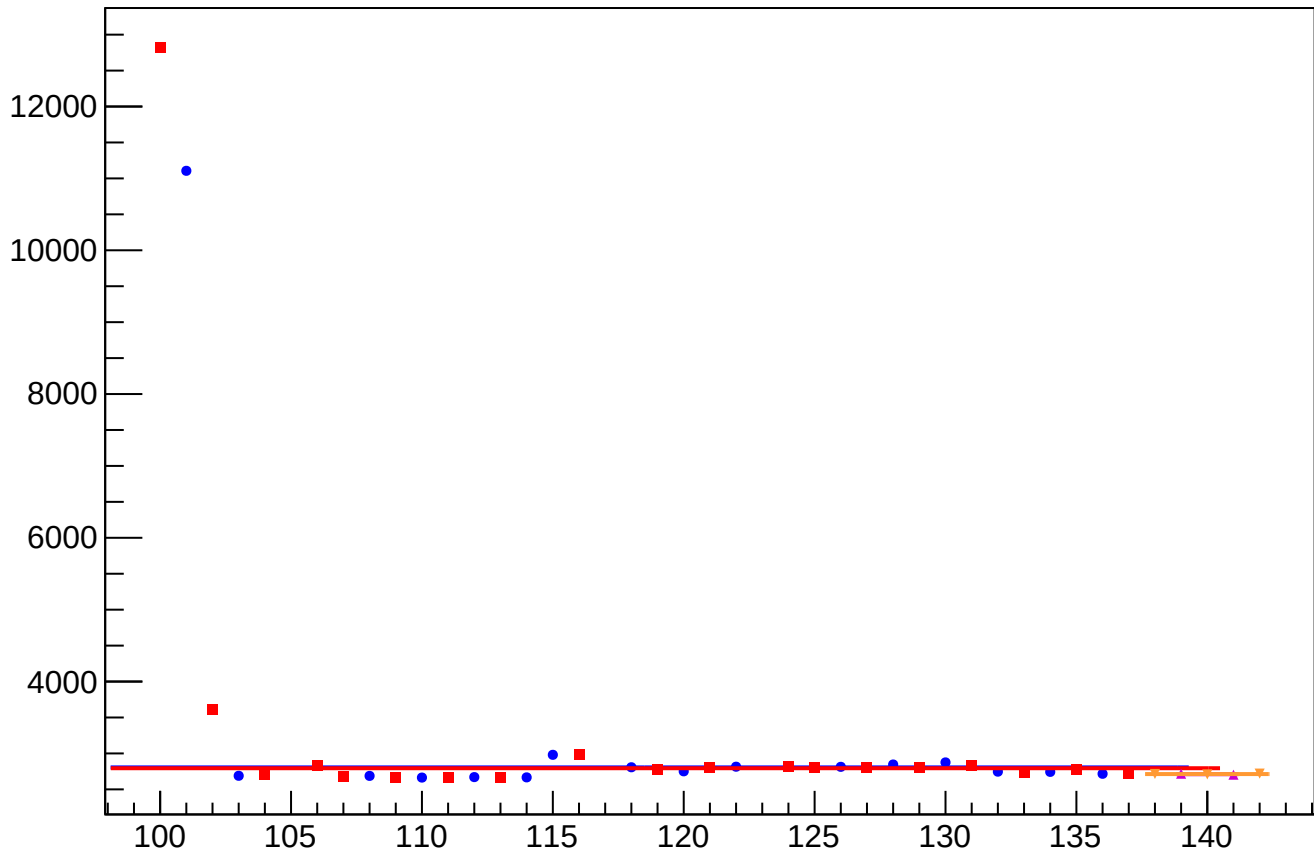
Right: 2238.996 $\pm$ 745.113 χ^2/NDF : 28.6/34

In: 2853.363 $\pm$ 949.823 χ^2/NDF : 21.1/17

Out: 2359.843 $\pm$ 909.486 χ^2/NDF : 10.9/21

All: 2595.901 $\pm$ 656.901 χ^2/NDF : 32.2/39

cor_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2805.446+/-0.757 χ^2/NDF : 746239.8/15

Left Out: 2712.901+/-1.335 χ^2/NDF :10.1/2

Right Out: 2794.157+/-0.734 χ^2/NDF : 146744.3/18

Left In: 2710.852+/-1.457 χ^2/NDF :21.6/1

Left: 2711.966+/-0.984 χ^2/NDF : 32.8/4

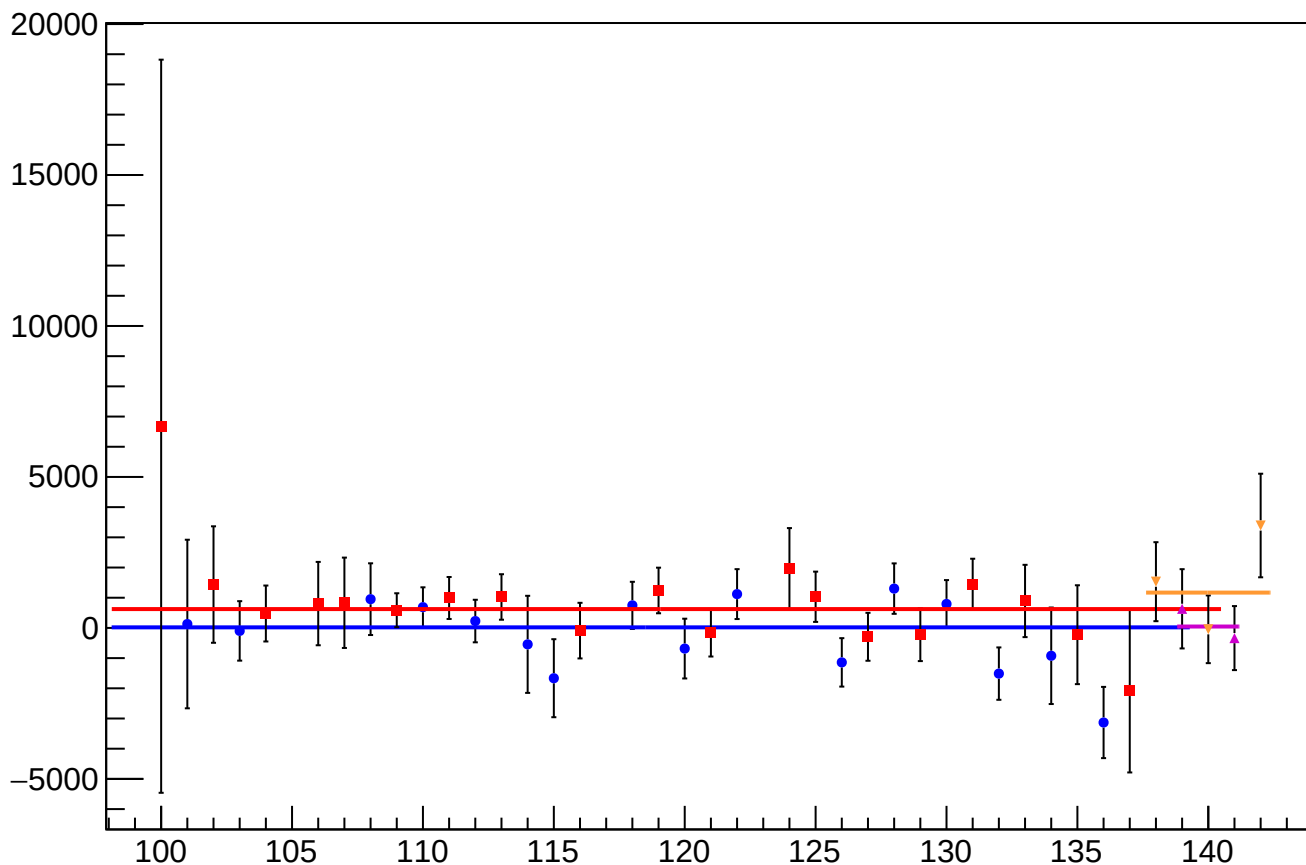
Right: 2799.627+/-0.527 χ^2/NDF : 893098.7/34

In: 2785.335+/-0.672 χ^2/NDF :749582.0/17

Out: 2775.299+/-0.643 χ^2/NDF :149599.5/21

All: 2780.100+/-0.464 χ^2/NDF : 899298.0/39

asym_atr1_cor_correction_mean vs Slug, Sign Corrected



Right In: 18.940 $\pm$ 233.471 χ^2 /NDF: 22.8/15

Left Out: 1170.130 $\pm$ 762.578 χ^2 /NDF: 2.9/2

Right Out: 624.217 $\pm$ 215.902 χ^2 /NDF: 9.1/18

Left In: 46.191 $\pm$ 824.659 χ^2 /NDF: 0.3/1

Left: 652.054 $\pm$ 559.886 χ^2 /NDF: 4.3/4

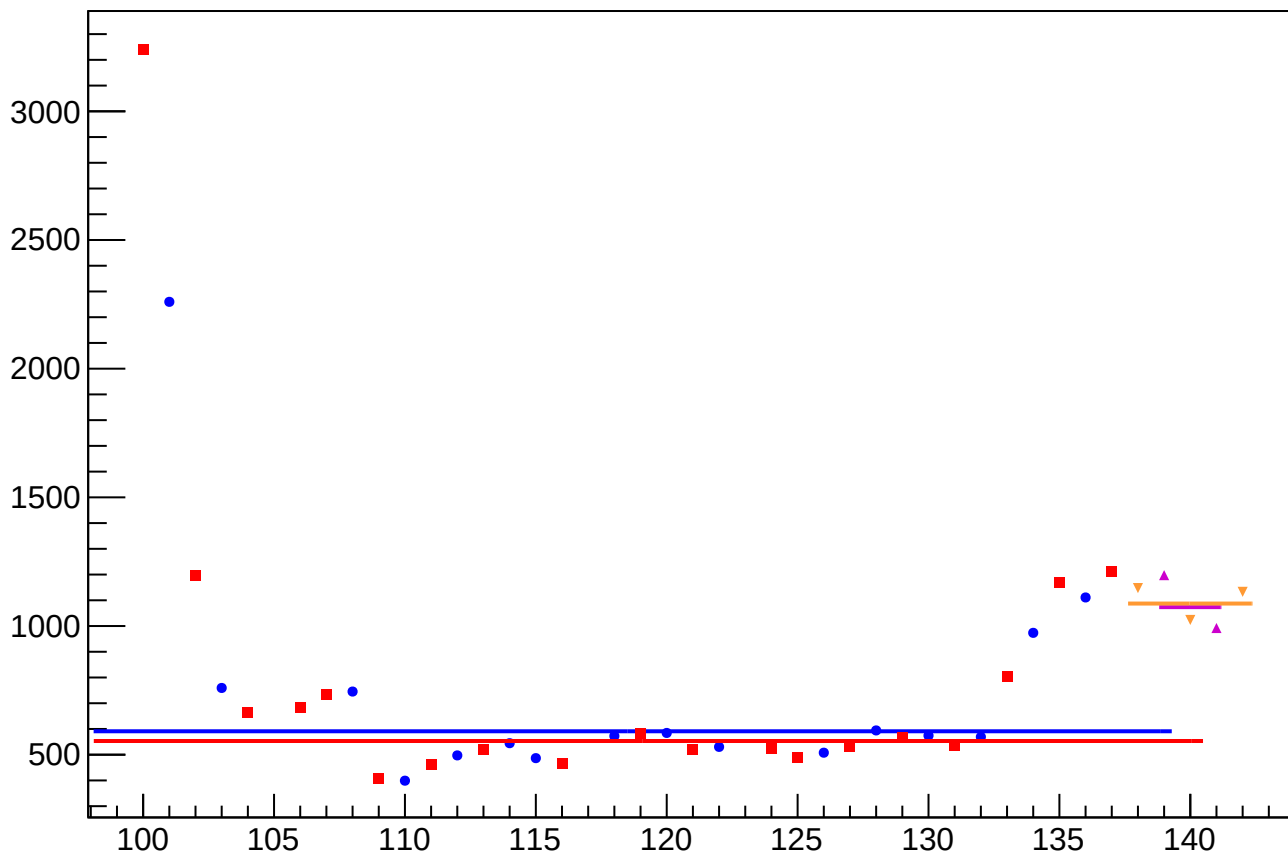
Right: 345.208 $\pm$ 158.513 χ^2 /NDF: 35.5/34

In: 20.962 $\pm$ 224.642 χ^2 /NDF: 23.1/17

Out: 664.728 $\pm$ 207.736 χ^2 /NDF: 12.5/21

All: 367.978 $\pm$ 152.519 χ^2 /NDF: 40.0/39

asym_atr1_cor_correction_rms vs Slug, Sign Corrected



Right In: 591.039+/-0.165 χ^2/NDF : 1566635.0/15

Left Out: 1087.313+/-0.539 χ^2/NDF : 12091.3/2

Right Out: 553.233+/-0.153 χ^2/NDF : 1101651.0/18

Left In: 1073.419+/-0.583 χ^2/NDF : 29650.2/1

Left: 1080.909+/-0.396 χ^2/NDF : 42047.5/4

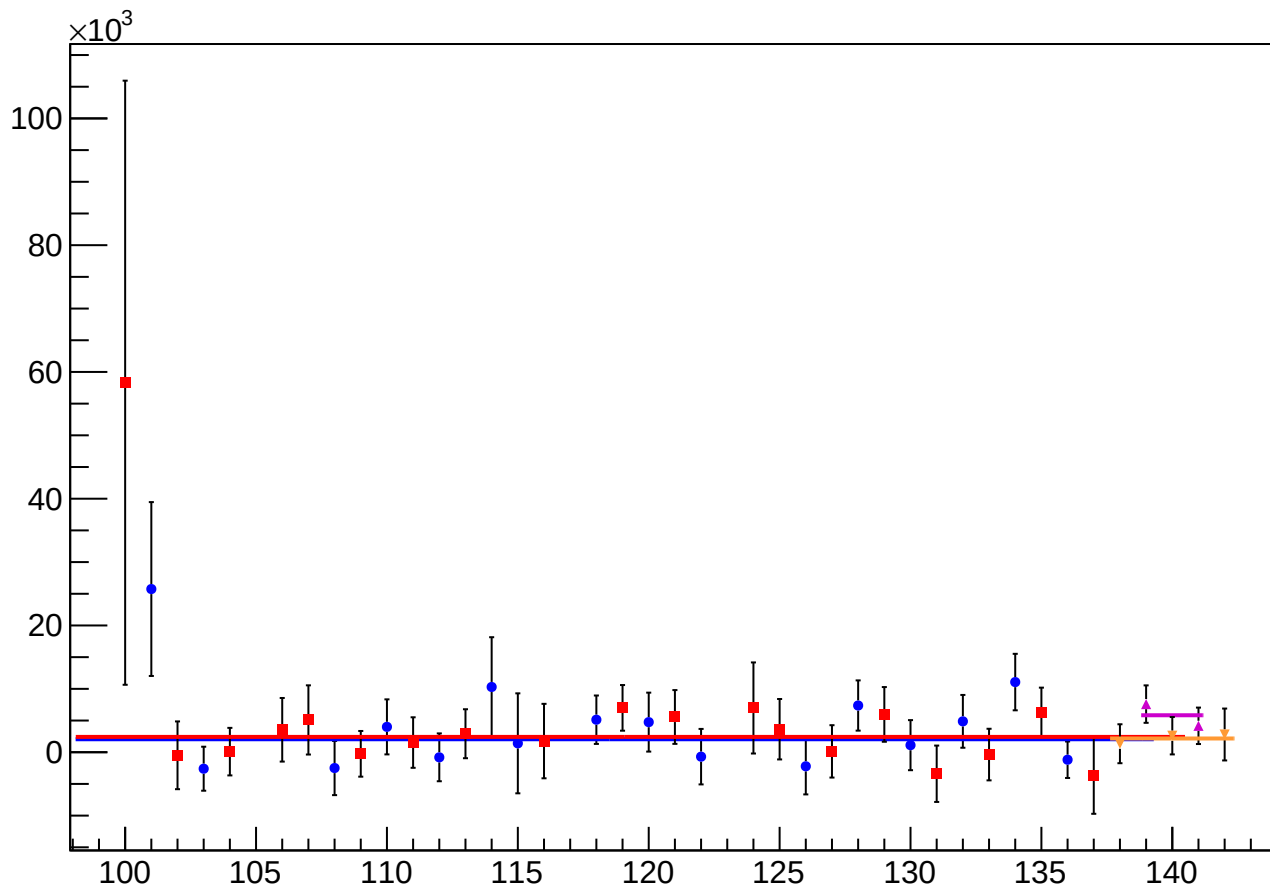
Right: 570.660+/-0.112 χ^2/NDF : 2696555.4/34

In: 626.834+/-0.159 χ^2/NDF : 2229825.6/17

Out: 592.866+/-0.147 χ^2/NDF : 2021955.4/21

All: 608.524+/-0.108 χ^2/NDF : 4276430.4/39

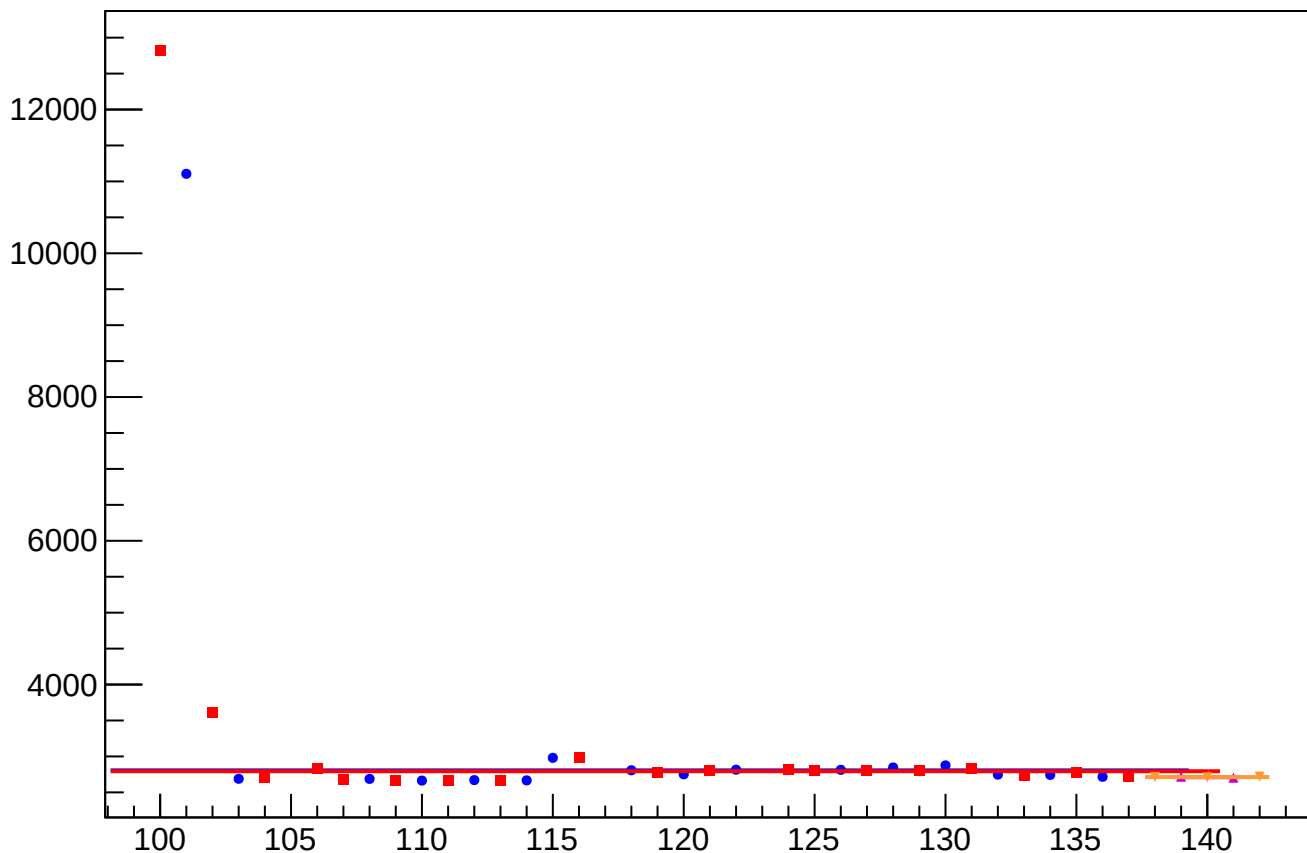
eigen_cor_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2048.688+/-1070.395 χ^2/NDF : 17.8/15
 Left Out: 2167.705+/-1887.903 χ^2/NDF : 0.1/2
 Right Out: 2417.909+/-1037.856 χ^2/NDF : 10.8/18
 Left In: 5833.655+/-2059.981 χ^2/NDF : 0.7/1

Left: 3841.194+/-1391.815 χ^2/NDF : 2.5/4
 Right: 2238.996+/-745.113 χ^2/NDF : 28.6/34
 In: 2853.363+/-949.823 χ^2/NDF : 21.1/17
 Out: 2359.843+/-909.486 χ^2/NDF : 10.9/21
 All: 2595.901+/-656.901 χ^2/NDF : 32.2/39

eigen_cor_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2805.446+/-0.757 χ^2/NDF : 746239.8/15

Left Out: 2712.901+/-1.335 χ^2/NDF :10.1/2

Right Out: 2794.157+/-0.734 χ^2/NDF : 146744.3/18

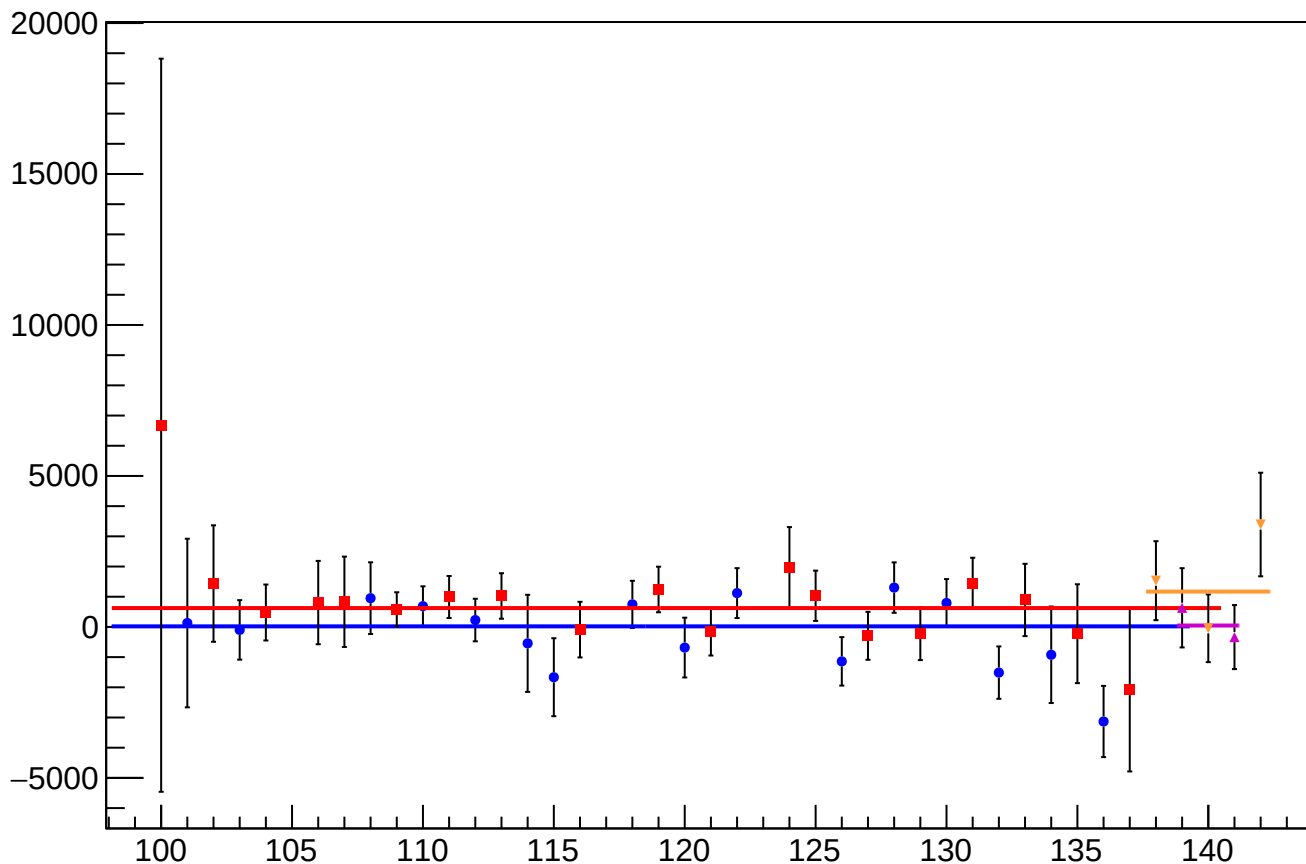
Left In: 2710.852+/-1.457 χ^2/NDF :21.6/1

Left: 2711.966+/-0.984 χ^2/NDF : 32.8/4
 Right: 2799.627+/-0.527 χ^2/NDF : 893098.7/34

In: 2785.335+/-0.672 χ^2/NDF :749582.0/17
 Out: 2775.299+/-0.643 χ^2/NDF :149599.5/21

All: 2780.100+/-0.464 χ^2/NDF : 899298.0/39

asym_atr1_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 18.940+/-233.471 χ^2/NDF : 22.8/15

Left Out: 1170.130+/-762.578 χ^2/NDF : 2.9/2

Right Out: 624.217+/-215.902 χ^2/NDF : 9.1/18

Left In: 46.191+/-824.659 χ^2/NDF : 0.3/1

Left: 652.054+/-559.886 χ^2/NDF : 4.3/4

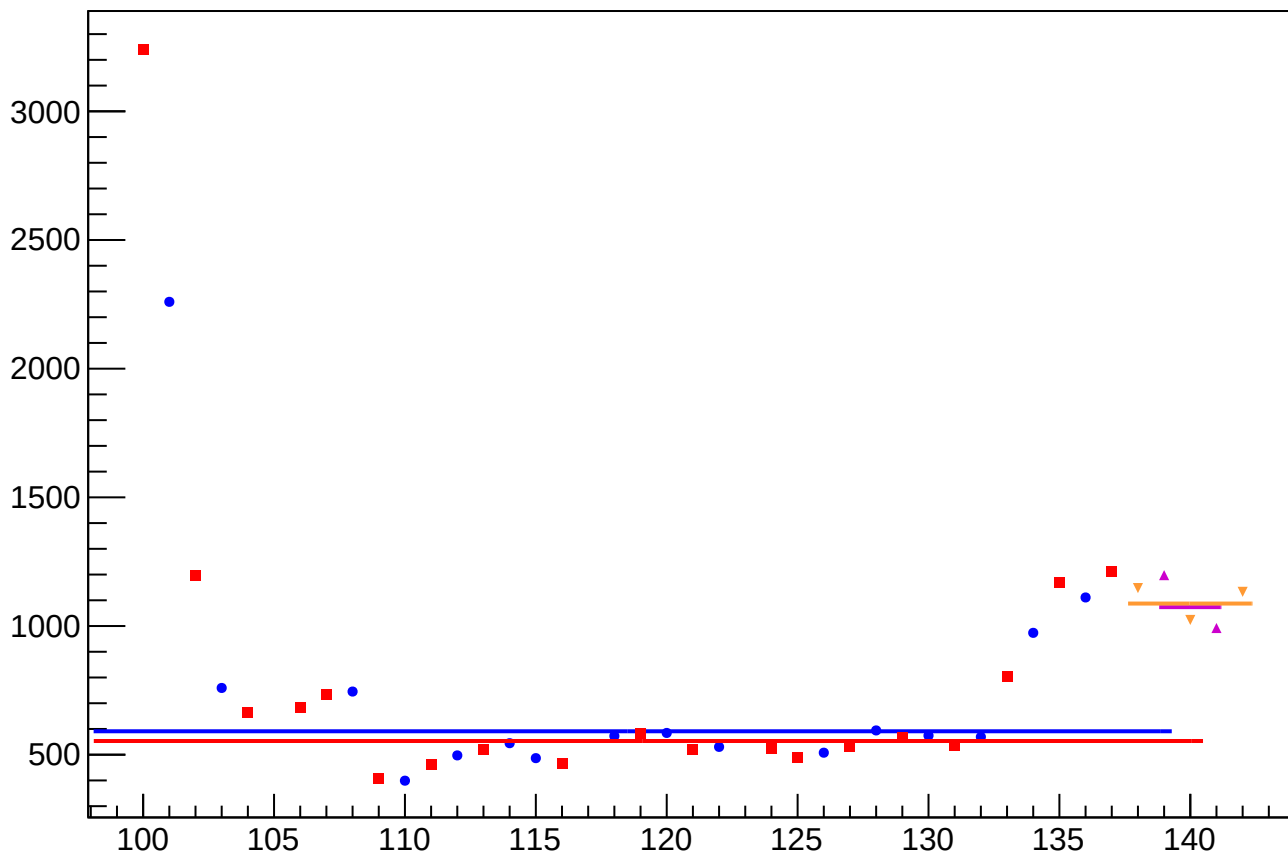
Right: 345.208+/-158.513 χ^2/NDF : 35.5/34

In: 20.962+/-224.642 χ^2/NDF : 23.1/17

Out: 664.728+/-207.736 χ^2/NDF : 12.5/21

All: 367.978+/-152.519 χ^2/NDF : 40.0/39

asym_atr1_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 591.039+/-0.165 χ^2/NDF : 1566635.0/15

Left Out: 1087.313+/-0.539 χ^2/NDF : 12091.3/2

Right Out: 553.233+/-0.153 χ^2/NDF : 1101651.0/18

Left In: 1073.419+/-0.583 χ^2/NDF : 29650.2/1

Left: 1080.909+/-0.396 χ^2/NDF : 42047.5/4

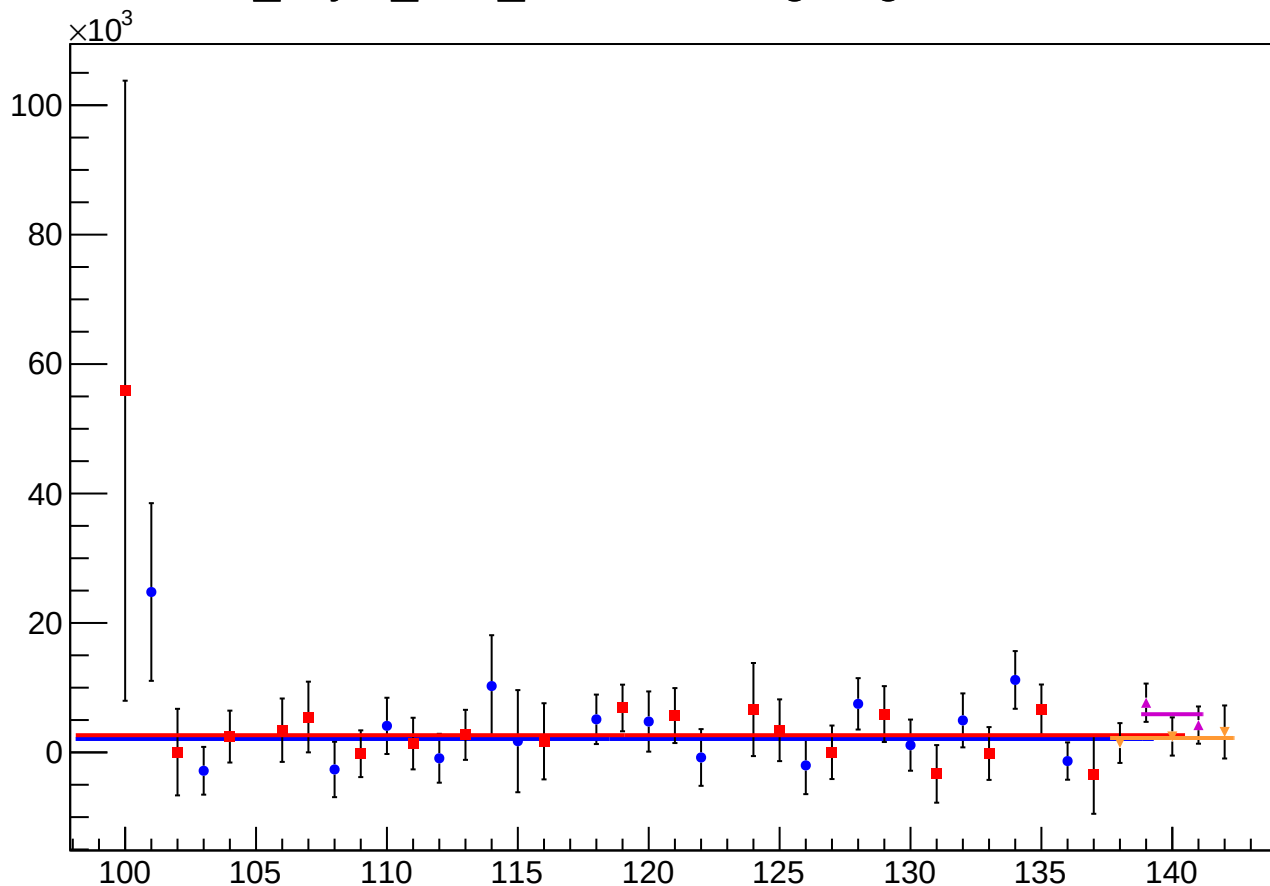
Right: 570.660+/-0.112 χ^2/NDF : 2696555.4/34

In: 626.834+/-0.159 χ^2/NDF : 2229825.6/17

Out: 592.866+/-0.147 χ^2/NDF : 2021955.4/21

All: 608.524+/-0.108 χ^2/NDF : 4276430.4/39

dit_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2074.766 $\pm$ 1077.182 χ^2/NDF : 17.9/15

Left Out: 2224.547 $\pm$ 1889.894 χ^2/NDF : 0.1/2

Right Out: 2657.301 $\pm$ 1049.868 χ^2/NDF : 9.9/18

Left In: 5899.535 $\pm$ 2062.153 χ^2/NDF : 0.7/1

Left: 3902.161 $\pm$ 1393.282 χ^2/NDF : 2.5/4

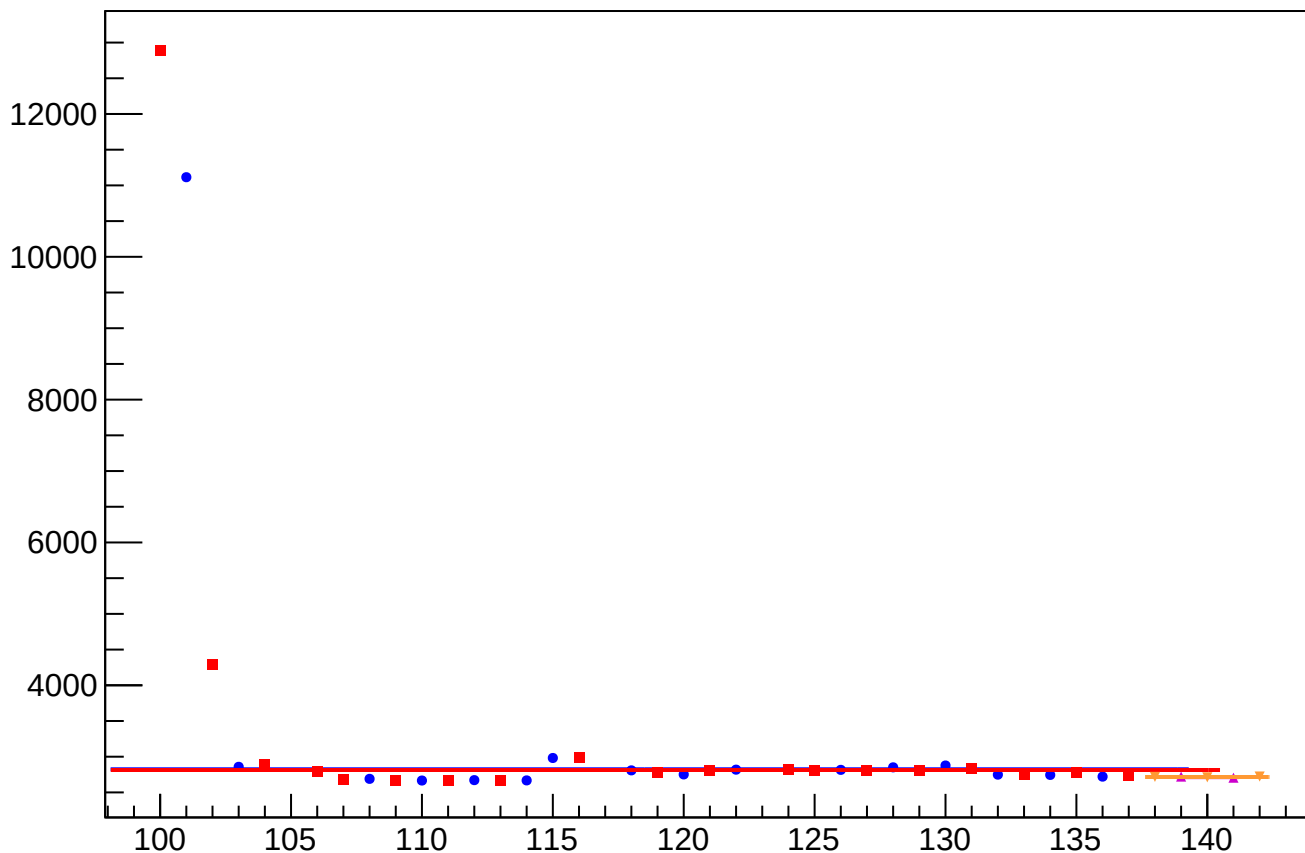
Right: 2373.513 $\pm$ 751.840 χ^2/NDF : 28.0/34

In: 2894.668 $\pm$ 954.771 χ^2/NDF : 21.3/17

Out: 2555.247 $\pm$ 917.765 χ^2/NDF : 10.1/21

All: 2718.252 $\pm$ 661.654 χ^2/NDF : 31.4/39

dit_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2823.448+/-0.762 χ^2/NDF : 743916.1/15

Left Out: 2715.752+/-1.336 χ^2/NDF :10.4/2

Right Out: 2813.821+/-0.742 χ^2/NDF : 200511.9/18

Left In: 2713.653+/-1.458 χ^2/NDF :28.0/1

Left: 2714.794+/-0.985 χ^2/NDF : 39.5/4

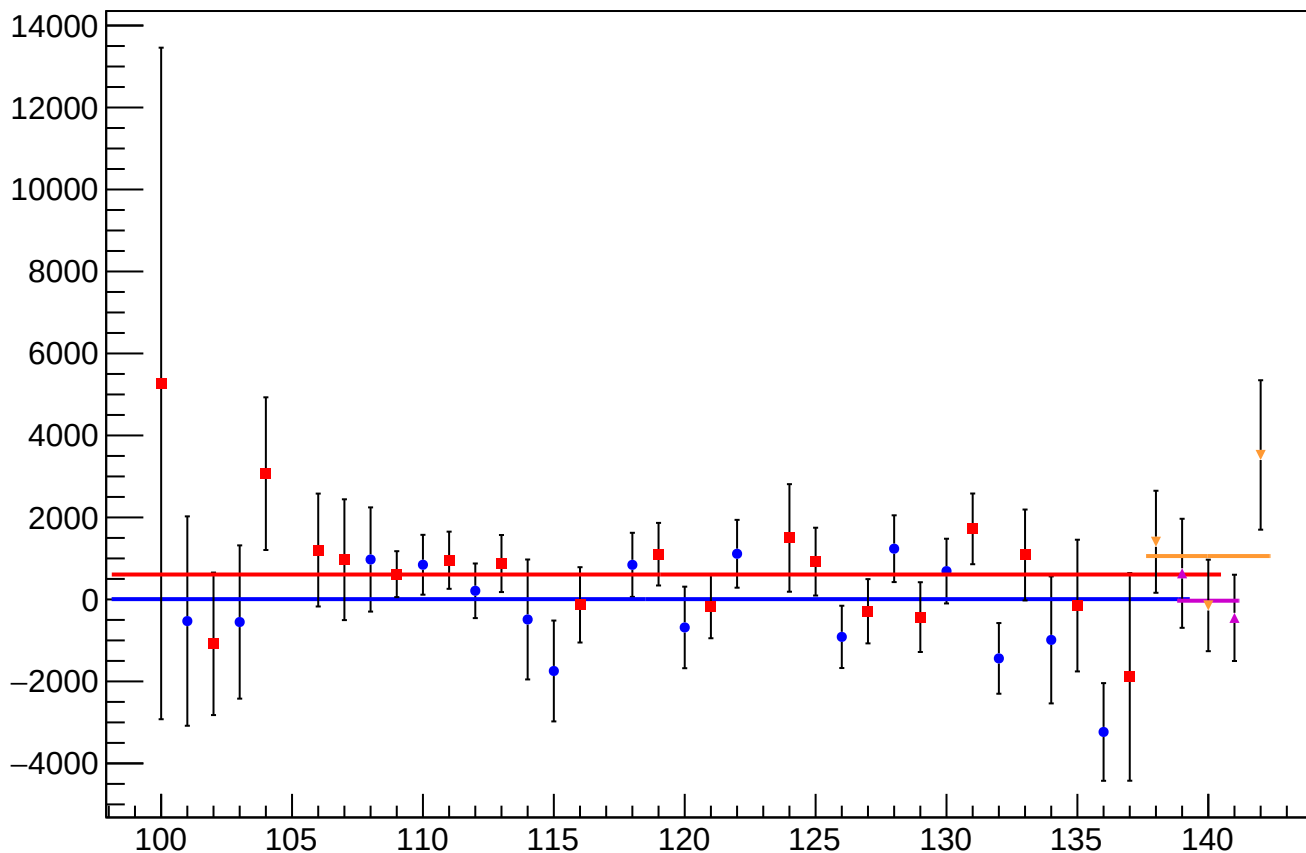
Right: 2818.511+/-0.532 χ^2/NDF : 944509.9/34

In: 2799.912+/-0.675 χ^2/NDF :748398.3/17

Out: 2790.694+/-0.649 χ^2/NDF :204637.7/21

All: 2795.121+/-0.468 χ^2/NDF : 953132.9/39

asym_atr1_dit_correction_mean vs Slug, Sign Corrected



Right In: 7.048 $\pm$ 237.455 χ^2 /NDF: 22.8/15

Left Out: 1058.023 $\pm$ 755.979 χ^2 /NDF:3.1/2

Right Out: 607.647 $\pm$ 217.093 χ^2 /NDF: 12.2/18

Left In: -31.400 $\pm$ 825.320 χ^2 /NDF:0.4/1

Left: 560.992 $\pm$ 557.463 χ^2 /NDF: 4.4/4

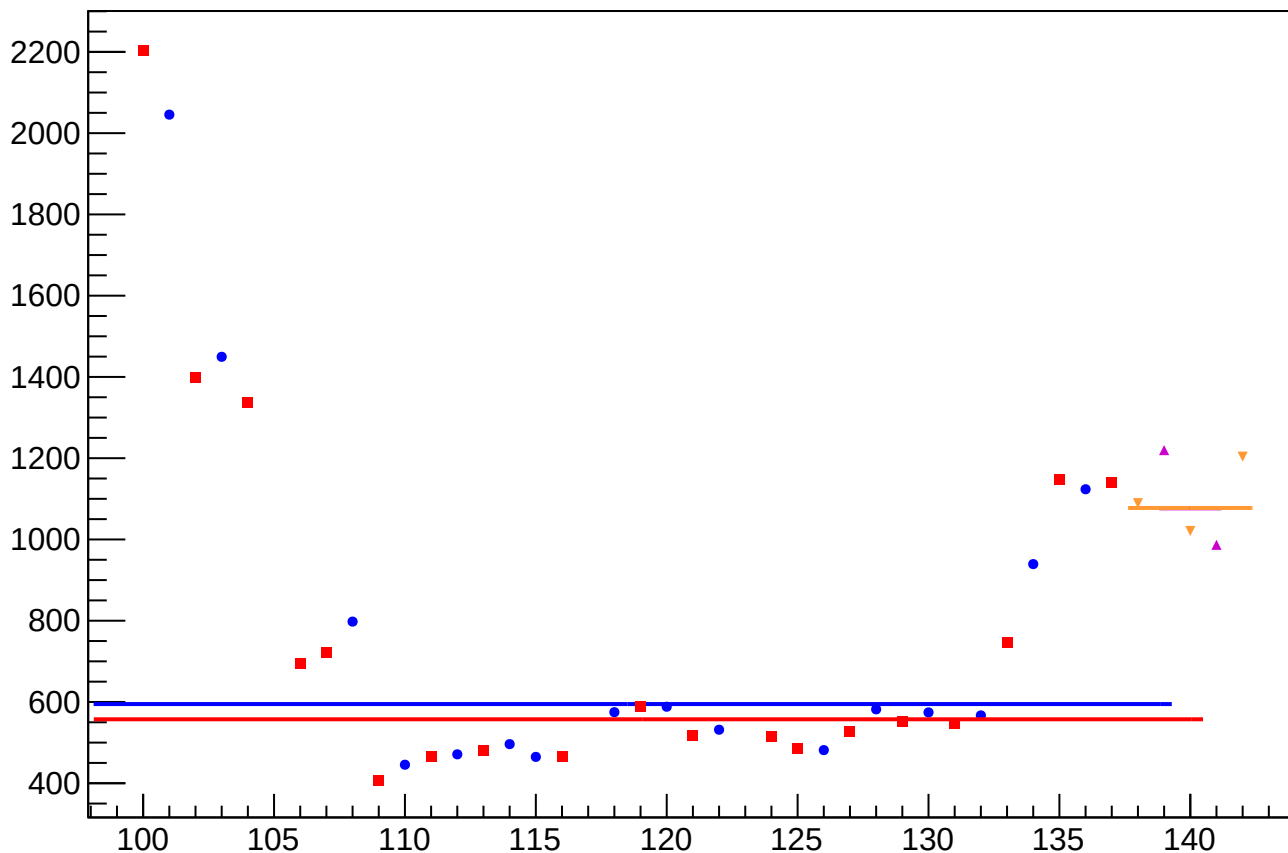
Right: 334.198 $\pm$ 160.224 χ^2 /NDF: 38.5/34

In: 4.109 $\pm$ 228.198 χ^2 /NDF:23.2/17

Out: 641.958 $\pm$ 208.660 χ^2 /NDF:15.6/21

All: 351.503 $\pm$ 153.990 χ^2 /NDF: 43.0/39

asym_atr1_dit_correction_rms vs Slug, Sign Corrected



Right In: 594.858 $\pm$ 0.168 χ^2/NDF : 1852655.3/15

Left Out: 1077.535 $\pm$ 0.535 χ^2/NDF :14938.9/2

Right Out: 557.397 $\pm$ 0.154 χ^2/NDF : 1631309.6/18

Left In: 1076.589 $\pm$ 0.584 χ^2/NDF :37758.5/1

Left: 1077.103 $\pm$ 0.394 χ^2/NDF : 52698.9/4

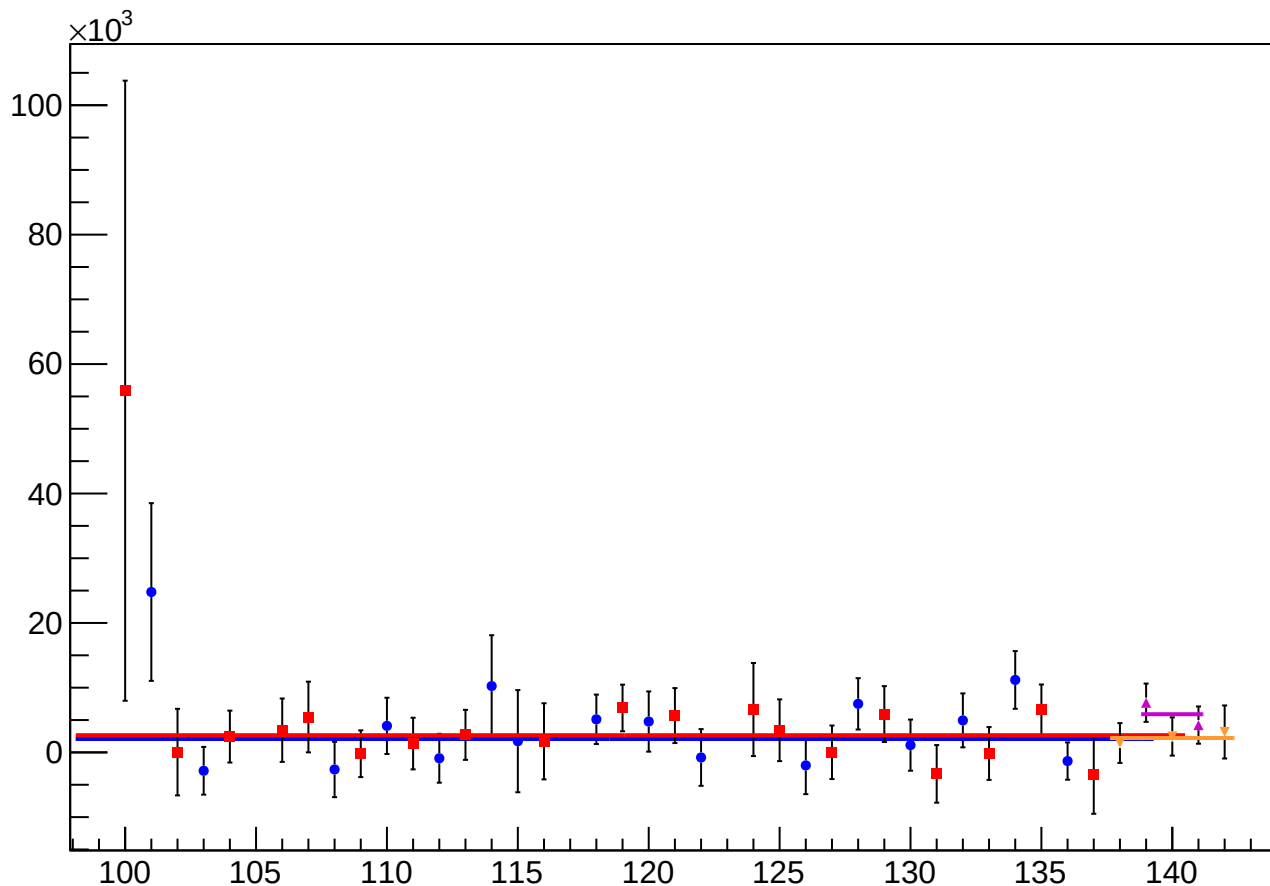
Right: 574.453 $\pm$ 0.113 χ^2/NDF : 3511078.0/34

In: 631.686 $\pm$ 0.161 χ^2/NDF :2519709.3/17

Out: 597.023 $\pm$ 0.148 χ^2/NDF :2520897.0/21

All: 612.807 $\pm$ 0.109 χ^2/NDF : 5065739.6/39

eigen_dit_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2074.766 $\pm$ 1077.182 χ^2/NDF : 17.9/15

Left Out: 2224.550 $\pm$ 1889.894 χ^2/NDF : 0.1/2

Right Out: 2657.300 $\pm$ 1049.868 χ^2/NDF : 9.9/18

Left In: 5899.533 $\pm$ 2062.153 χ^2/NDF : 0.7/1

Left: 3902.163 $\pm$ 1393.282 χ^2/NDF : 2.5/4

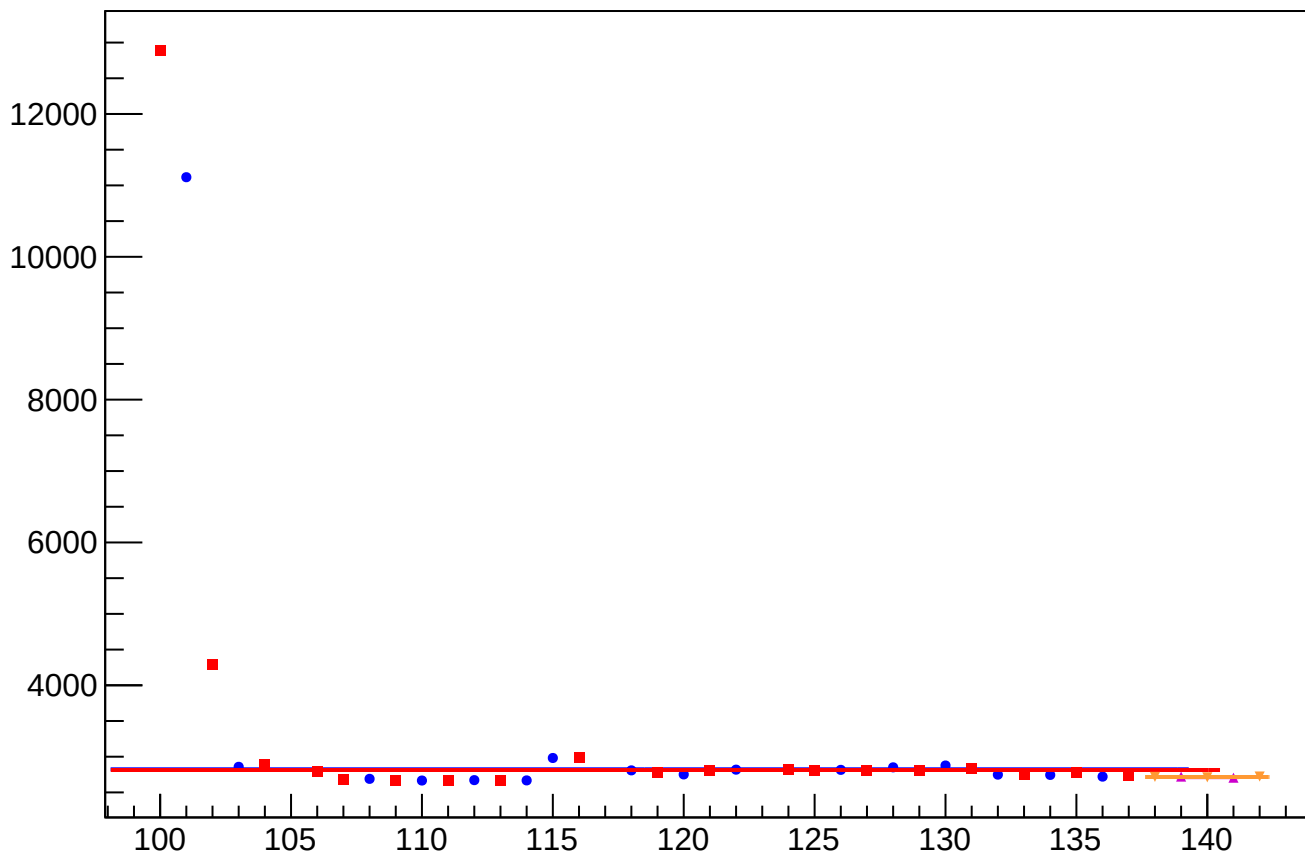
Right: 2373.512 $\pm$ 751.840 χ^2/NDF : 28.0/34

In: 2894.667 $\pm$ 954.771 χ^2/NDF : 21.3/17

Out: 2555.247 $\pm$ 917.765 χ^2/NDF : 10.1/21

All: 2718.252 $\pm$ 661.654 χ^2/NDF : 31.4/39

eigen_dit_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2823.448+/-0.762 χ^2/NDF : 743916.1/15

Left Out: 2715.752+/-1.336 χ^2/NDF :10.4/2

Right Out: 2813.821+/-0.742 χ^2/NDF : 200511.7/18

Left In: 2713.653+/-1.458 χ^2/NDF :28.0/1

Left: 2714.794+/-0.985 χ^2/NDF : 39.5/4

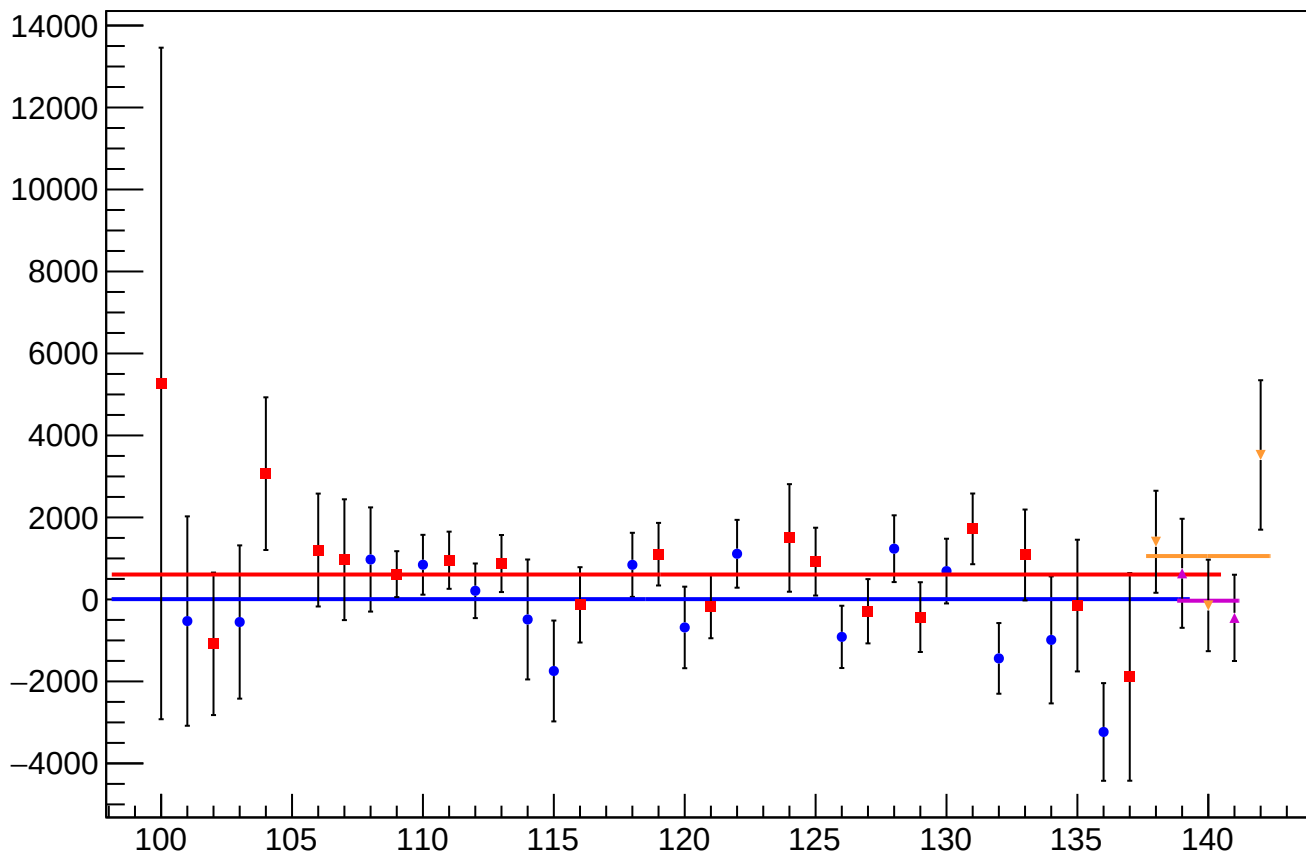
Right: 2818.511+/-0.532 χ^2/NDF : 944509.7/34

In: 2799.912+/-0.675 χ^2/NDF :748398.3/17

Out: 2790.694+/-0.649 χ^2/NDF :204637.5/21

All: 2795.121+/-0.468 χ^2/NDF : 953132.6/39

asym_atr1_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 7.049+/-237.455 χ^2/NDF : 22.8/15

Left Out: 1058.026+/-755.979 χ^2/NDF : 3.1/2

Right Out: 607.647+/-217.094 χ^2/NDF : 12.2/18

Left In: -31.401+/-825.320 χ^2/NDF : 0.4/1

Left: 560.993+/-557.463 χ^2/NDF : 4.4/4

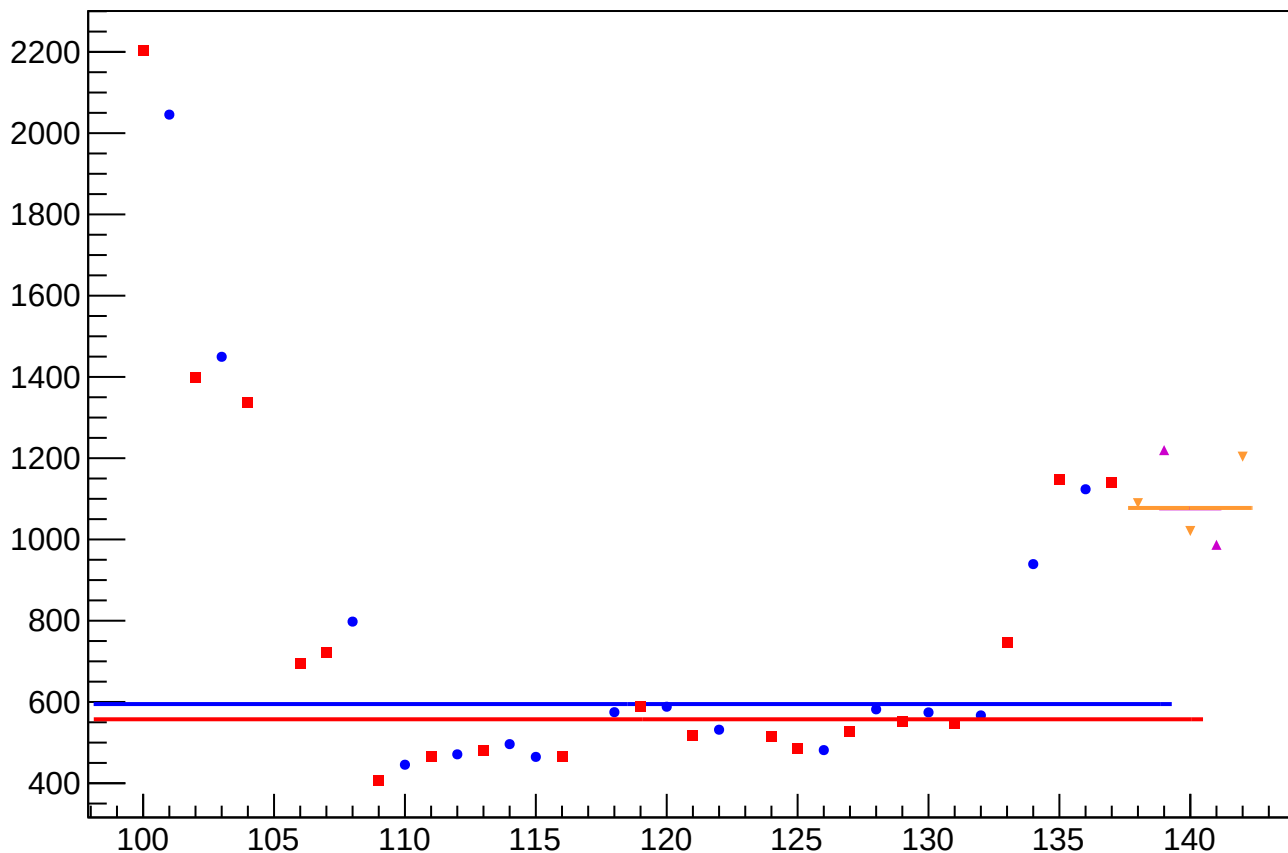
Right: 334.198+/-160.224 χ^2/NDF : 38.5/34

In: 4.109+/-228.198 χ^2/NDF : 23.2/17

Out: 641.958+/-208.660 χ^2/NDF : 15.6/21

All: 351.503+/-153.990 χ^2/NDF : 43.0/39

asym_atr1_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 594.858+/-0.168 χ^2/NDF : 1852649.9/15

Left Out: 1077.535+/-0.535 χ^2/NDF :14939.2/2

Right Out: 557.397+/-0.154 χ^2/NDF : 1631307.0/18

Left In: 1076.589+/-0.584 χ^2/NDF :37758.2/1

Left: 1077.103+/-0.394 χ^2/NDF : 52698.8/4

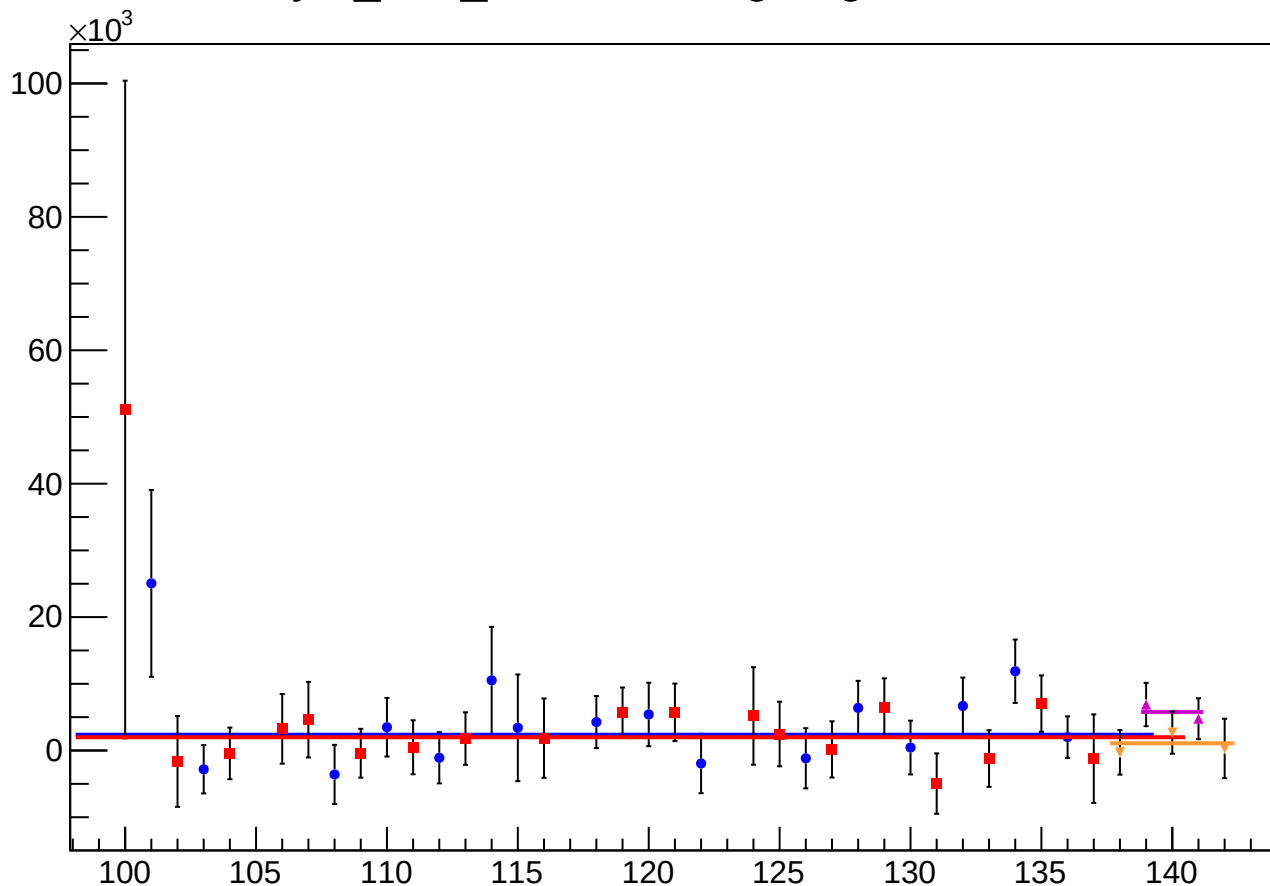
Right: 574.453+/-0.113 χ^2/NDF : 3511070.4/34

In: 631.686+/-0.161 χ^2/NDF :2519702.2/17

Out: 597.023+/-0.148 χ^2/NDF :2520894.2/21

All: 612.808+/-0.109 χ^2/NDF : 5065730.1/39

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2367.173+/-1106.203 χ^2/NDF : 16.8/15

Left Out: 1084.969+/-2044.050 χ^2/NDF : 0.4/2

Right Out: 1987.039+/-1075.310 χ^2/NDF : 10.3/18

Left In: 5770.017+/-2231.318 χ^2/NDF : 0.2/1

Left: 3222.674+/-1507.226 χ^2/NDF : 3.1/4

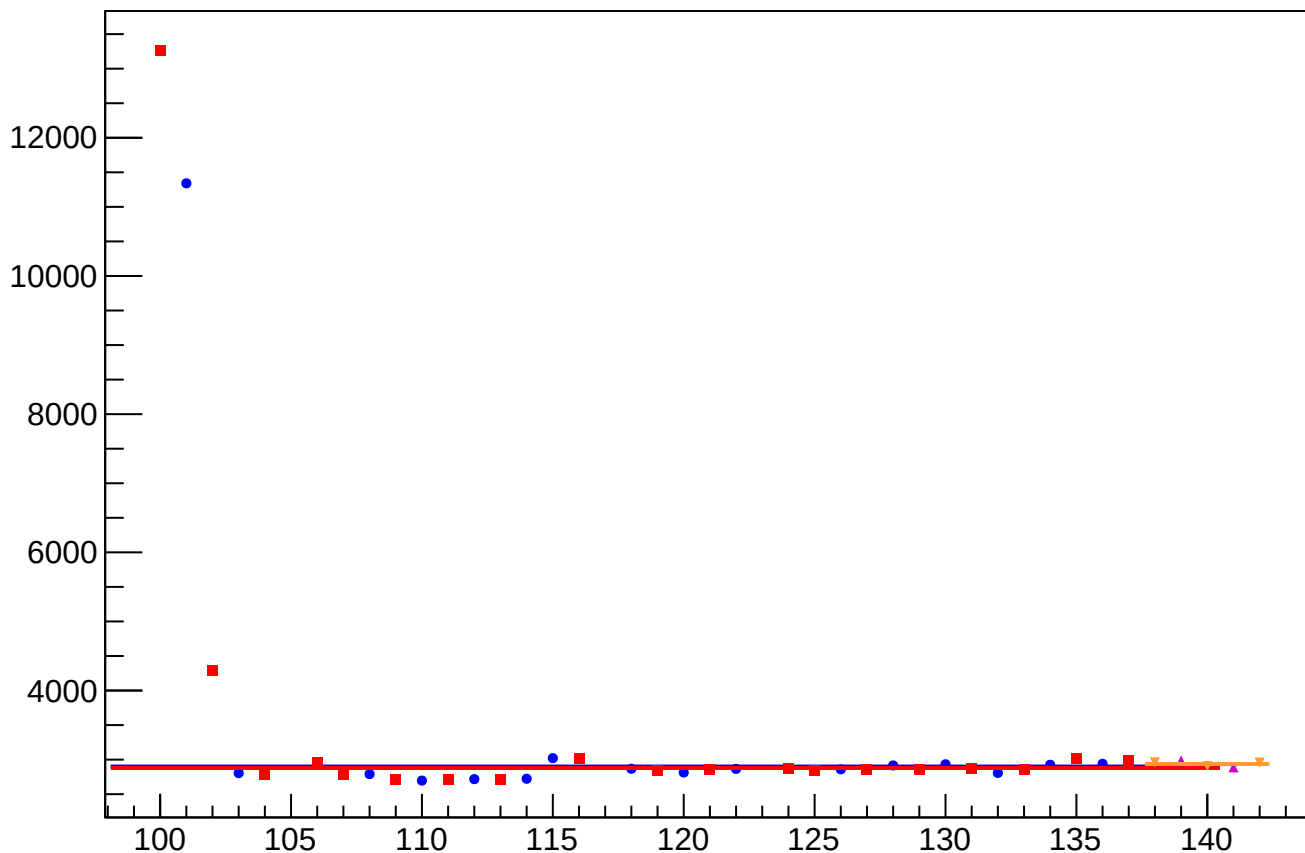
Right: 2171.724+/-771.049 χ^2/NDF : 27.2/34

In: 3038.521+/-991.092 χ^2/NDF : 18.9/17

Out: 1791.507+/-951.658 χ^2/NDF : 10.9/21

All: 2389.712+/-686.442 χ^2/NDF : 30.7/39

asym_atr1_rms vs Slug, Sign Corrected



Right In: 2899.827+/-0.782 χ^2/NDF : 741818.2/15

Left Out: 2936.638+/-1.445 χ^2/NDF :338.5/2

Right Out: 2878.957+/-0.760 χ^2/NDF : 193282.4/18

Left In: 2935.087+/-1.578 χ^2/NDF :986.2/1

Left: 2935.931+/-1.066 χ^2/NDF : 1325.3/4

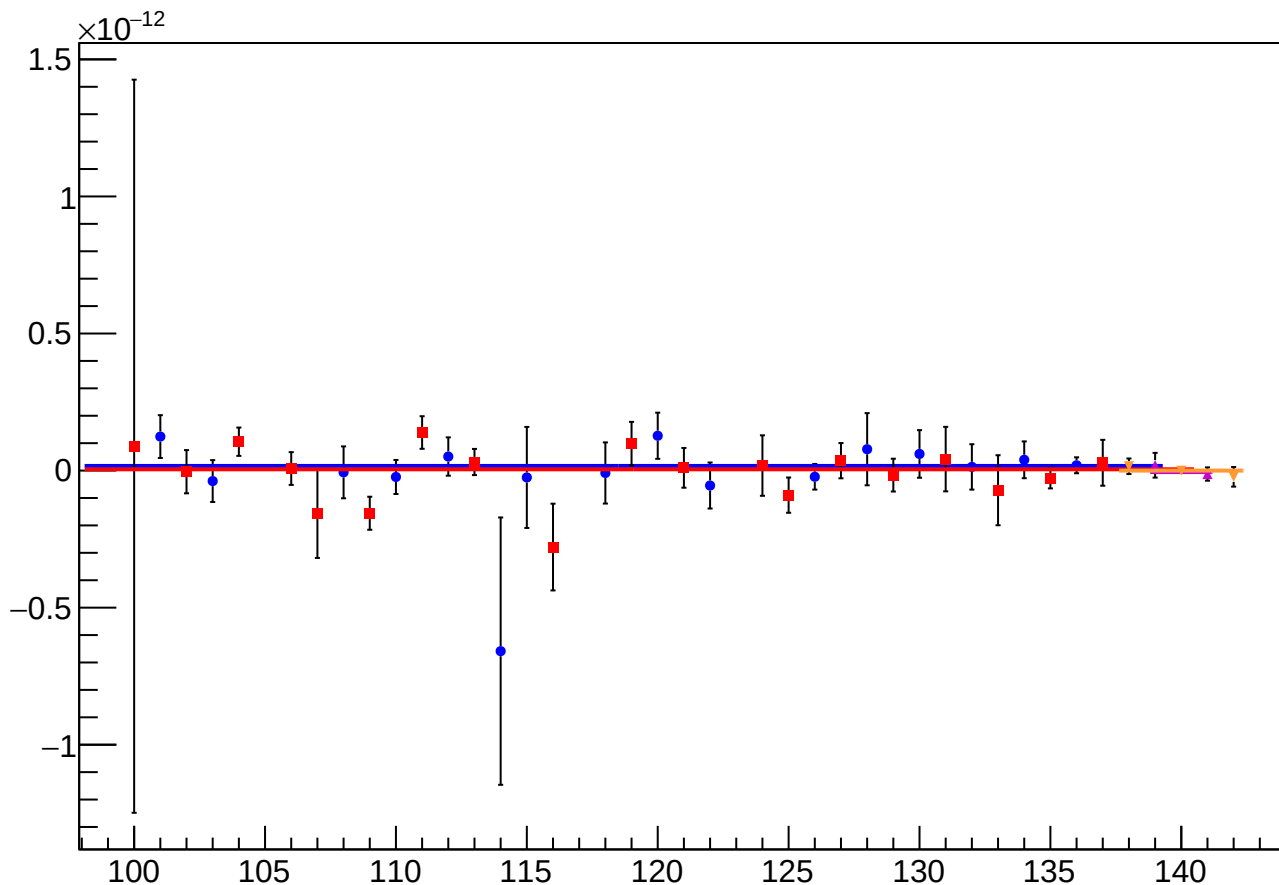
Right: 2889.097+/-0.545 χ^2/NDF : 935466.6/34

In: 2906.784+/-0.701 χ^2/NDF :743205.3/17

Out: 2891.460+/-0.673 χ^2/NDF :194868.4/21

All: 2898.811+/-0.485 χ^2/NDF : 938322.5/39

asym_atr1_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 25.7/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.4/1

Left: -0.000+/-0.000 χ^2/NDF : 1.2/4

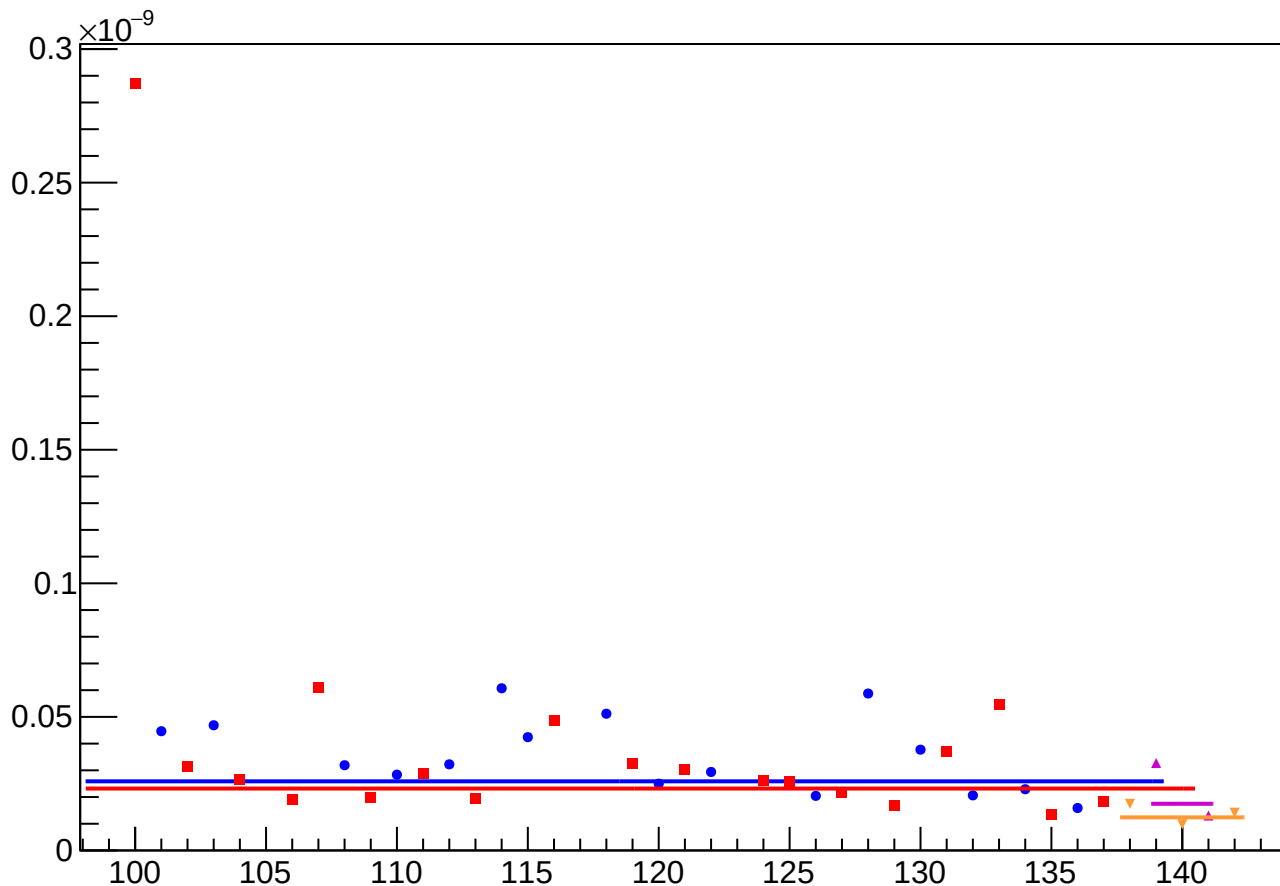
Right: 0.000+/-0.000 χ^2/NDF : 34.9/34

In: 0.000+/-0.000 χ^2/NDF : 10.0/17

Out: 0.000+/-0.000 χ^2/NDF : 26.5/21

All: 0.000+/-0.000 χ^2/NDF : 36.6/39

asym_atr1_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 865479.7/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 107611.5/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 688853.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 294447.9/1

Left: 0.000 ± 0.000 χ^2/NDF : 480853.9/4

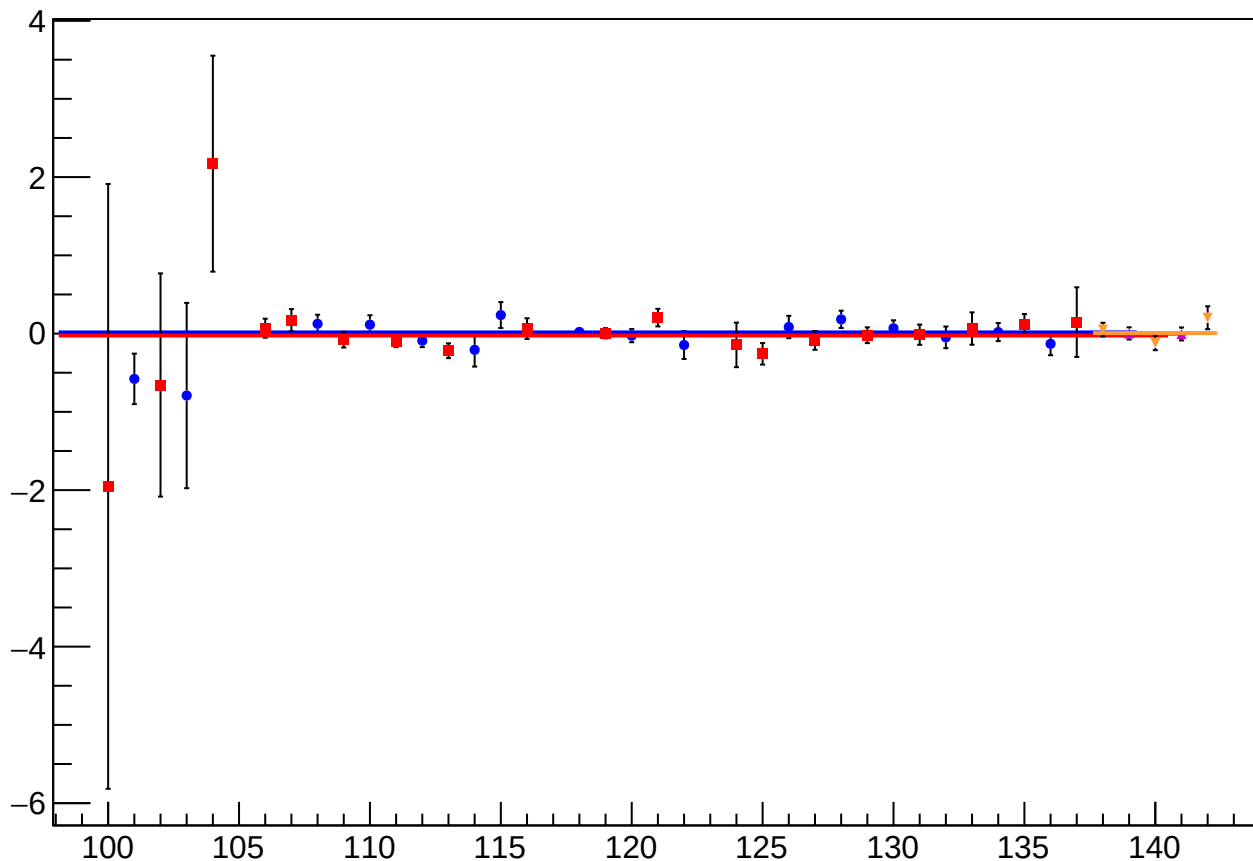
Right: 0.000 ± 0.000 χ^2/NDF : 1581998.9/34

In: 0.000 ± 0.000 χ^2/NDF : 1350659.5/17

Out: 0.000 ± 0.000 χ^2/NDF : 1316555.2/21

All: 0.000 ± 0.000 χ^2/NDF : 2872278.8/39

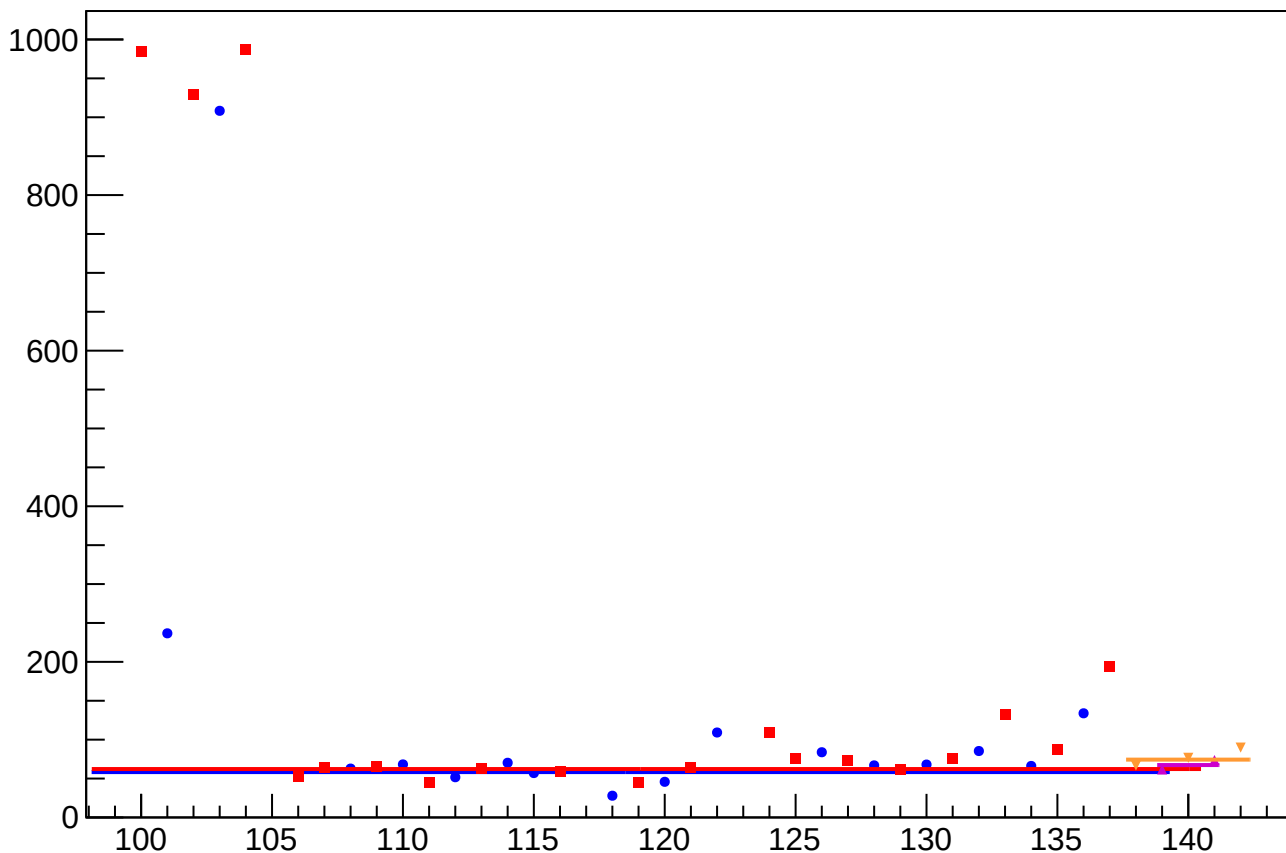
asym_atr1_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.028 χ^2 /NDF: 15.0/15
 Left Out: 0.006 $\pm$ 0.058 χ^2 /NDF:3.9/2
 Right Out: -0.024 $\pm$ 0.028 χ^2 /NDF: 20.8/18
 Left In: -0.001 $\pm$ 0.057 χ^2 /NDF:0.0/1

Left: 0.003 $\pm$ 0.041 χ^2 /NDF: 3.9/4
 Right: -0.004 $\pm$ 0.020 χ^2 /NDF: 36.8/34
 In: 0.012 $\pm$ 0.025 χ^2 /NDF:15.1/17
 Out: -0.018 $\pm$ 0.025 χ^2 /NDF:25.0/21
 All: -0.003 $\pm$ 0.018 χ^2 /NDF: 40.8/39

asym_atr1_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 58.313 $\pm$ 0.020 χ^2 /NDF: 3260404.3/15

Left Out: 74.336 $\pm$ 0.041 χ^2 /NDF:38914.6/2

Right Out: 62.235 $\pm$ 0.020 χ^2 /NDF: 2627030.1/18

Left In: 67.369 $\pm$ 0.040 χ^2 /NDF:22598.2/1

Left: 70.773 $\pm$ 0.029 χ^2 /NDF: 76142.2/4

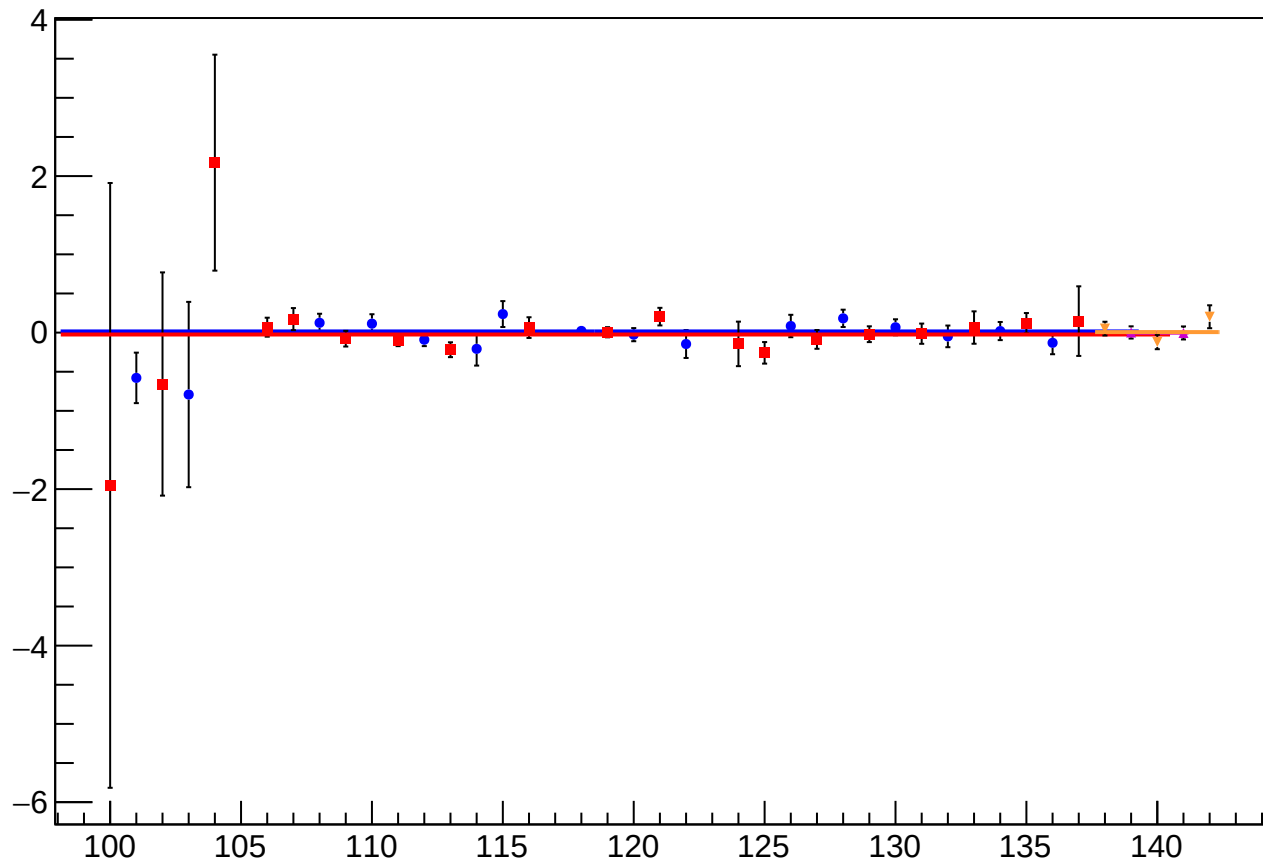
Right: 60.260 $\pm$ 0.014 χ^2 /NDF: 5907159.6/34

In: 60.059 $\pm$ 0.018 χ^2 /NDF:3323847.0/17

Out: 64.510 $\pm$ 0.018 χ^2 /NDF:2736007.0/21

All: 62.262 $\pm$ 0.013 χ^2 /NDF: 6091210.2/39

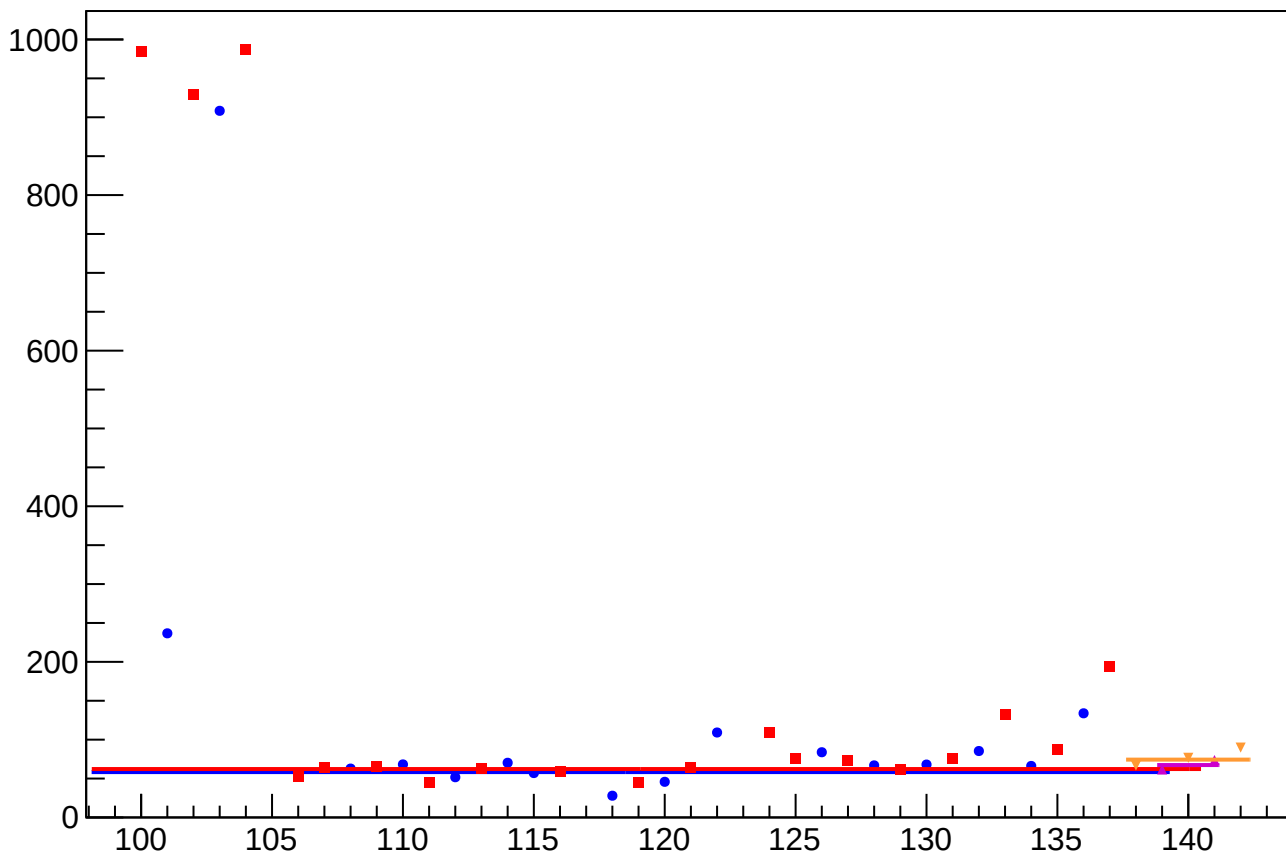
asym_atr1_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.028 χ^2 /NDF: 15.0/15
 Left Out: 0.006 $\pm$ 0.058 χ^2 /NDF:3.9/2
 Right Out: -0.024 $\pm$ 0.028 χ^2 /NDF: 20.8/18
 Left In: -0.001 $\pm$ 0.057 χ^2 /NDF:0.0/1

Left: 0.003 $\pm$ 0.041 χ^2 /NDF: 3.9/4
 Right: -0.004 $\pm$ 0.020 χ^2 /NDF: 36.8/34
 In: 0.012 $\pm$ 0.025 χ^2 /NDF:15.1/17
 Out: -0.018 $\pm$ 0.025 χ^2 /NDF:25.0/21
 All: -0.003 $\pm$ 0.018 χ^2 /NDF: 40.8/39

asym_atr1_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 58.313 $\pm$ 0.020 χ^2 /NDF: 3260404.3/15

Left Out: 74.336 $\pm$ 0.041 χ^2 /NDF:38914.6/2

Right Out: 62.235 $\pm$ 0.020 χ^2 /NDF: 2627030.1/18

Left In: 67.369 $\pm$ 0.040 χ^2 /NDF:22598.2/1

Left: 70.773 $\pm$ 0.029 χ^2 /NDF: 76142.2/4

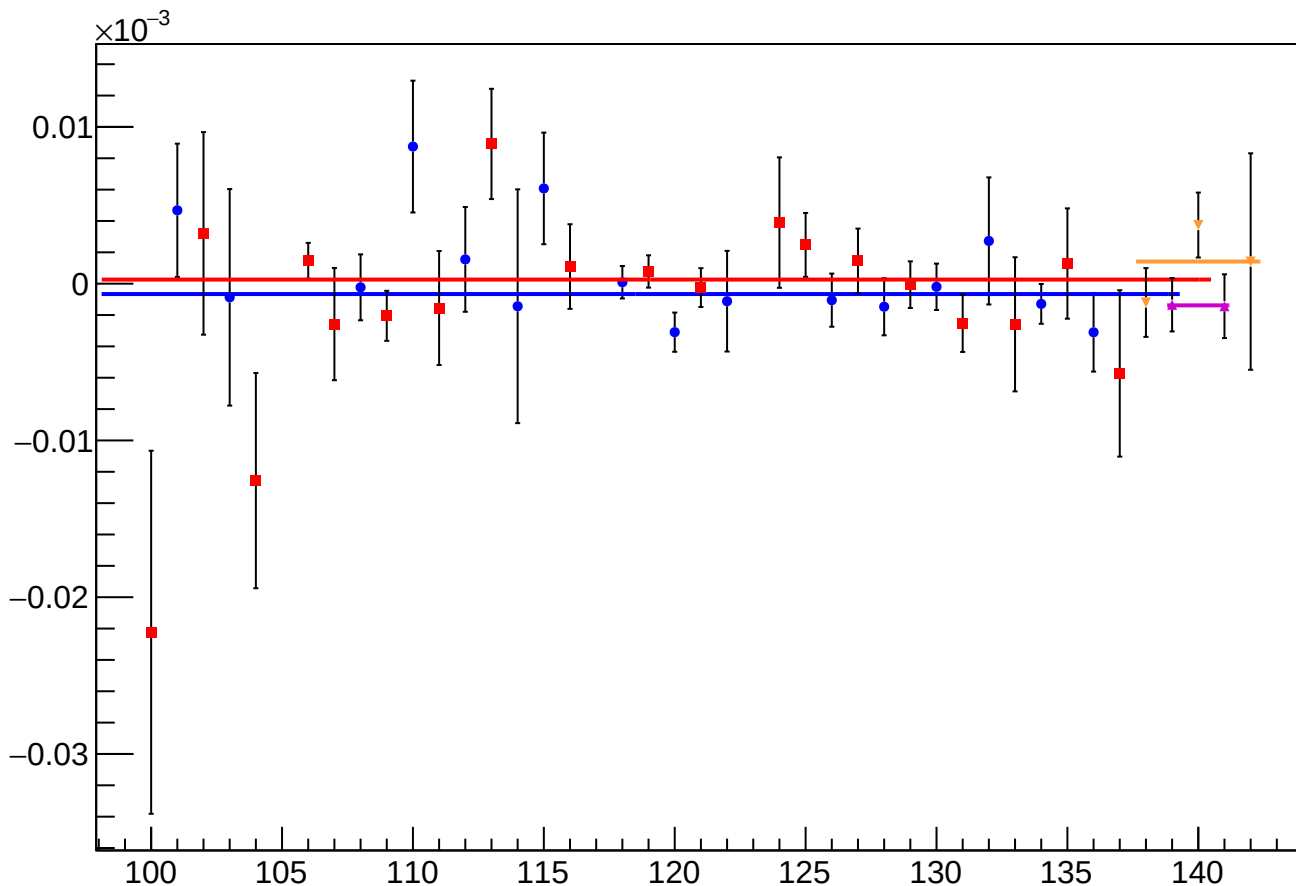
Right: 60.260 $\pm$ 0.014 χ^2 /NDF: 5907159.6/34

In: 60.059 $\pm$ 0.018 χ^2 /NDF:3323847.0/17

Out: 64.510 $\pm$ 0.018 χ^2 /NDF:2736007.0/21

All: 62.262 $\pm$ 0.013 χ^2 /NDF: 6091210.2/39

asym_atr1_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 17.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 24.6/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 4.7/4

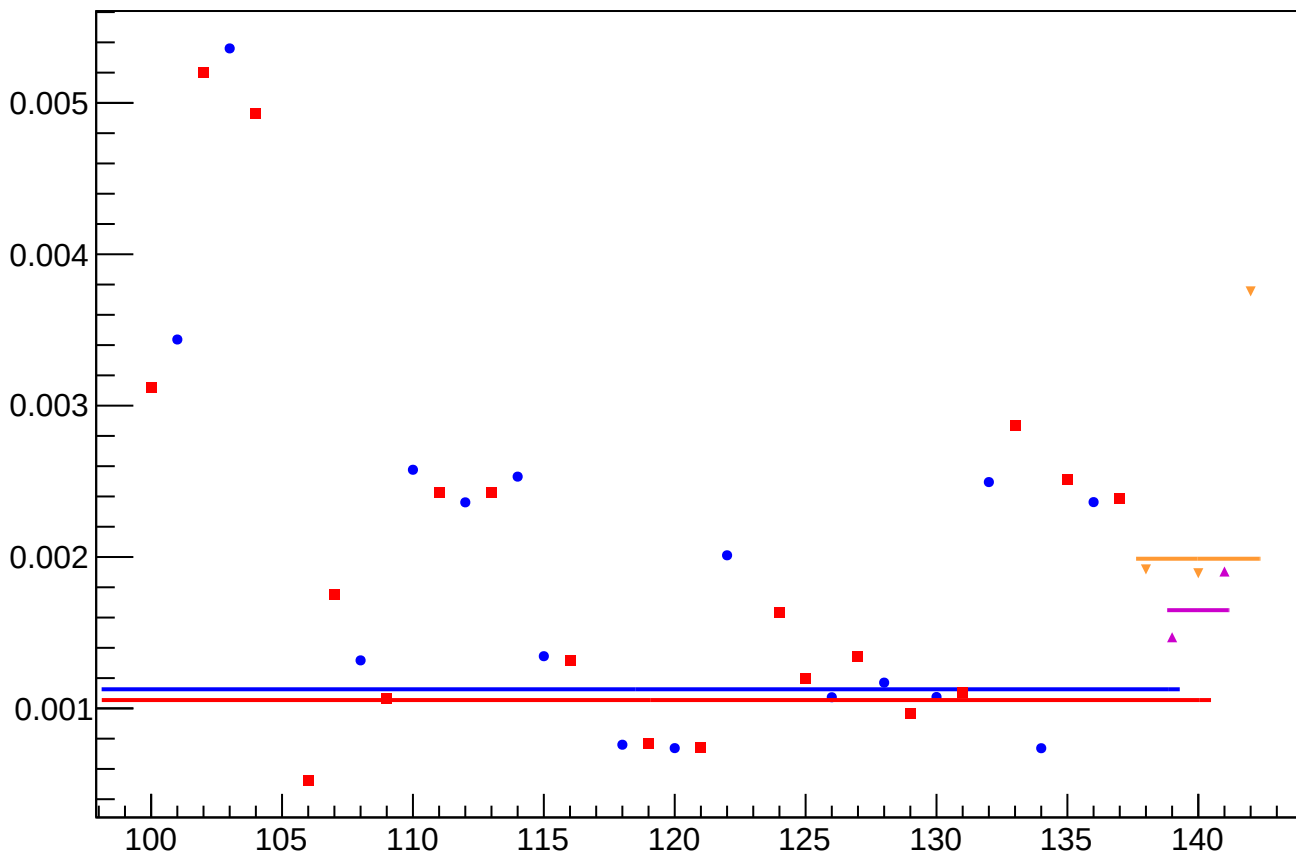
Right: -0.000+/-0.000 χ^2/NDF : 43.7/34

In: -0.000+/-0.000 χ^2/NDF : 17.5/17

Out: 0.000+/-0.000 χ^2/NDF : 27.8/21

All: -0.000+/-0.000 χ^2/NDF : 48.4/39

asym_atr1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001 ± 0.000 χ^2/NDF : 3453081.7/15

Left Out: 0.002 ± 0.000 χ^2/NDF : 137176.7/2

Right Out: 0.001 ± 0.000 χ^2/NDF : 3848500.2/18

Left In: 0.002 ± 0.000 χ^2/NDF : 53649.6/1

Left: 0.002 ± 0.000 χ^2/NDF : 250523.3/4

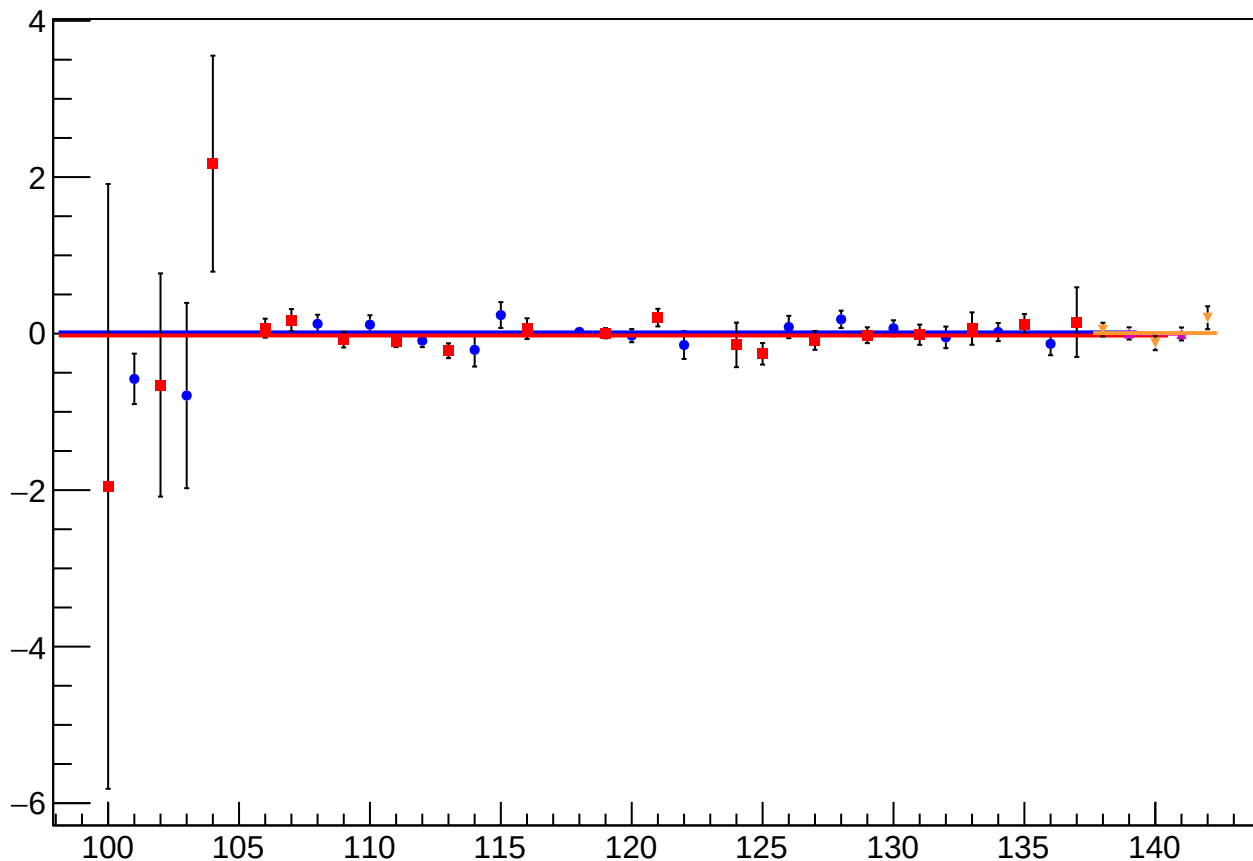
Right: 0.001 ± 0.000 χ^2/NDF : 7323820.3/34

In: 0.001 ± 0.000 χ^2/NDF : 3787798.3/17

Out: 0.001 ± 0.000 χ^2/NDF : 4717676.2/21

All: 0.001 ± 0.000 χ^2/NDF : 8518319.2/39

asym_atr1_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.028 χ^2 /NDF: 15.0/15

Left Out: 0.006 $\pm$ 0.058 χ^2 /NDF:3.9/2

Right Out: -0.024 $\pm$ 0.028 χ^2 /NDF: 20.8/18

Left In: -0.001 $\pm$ 0.057 χ^2 /NDF:0.0/1

Left: 0.003 $\pm$ 0.041 χ^2 /NDF: 3.9/4

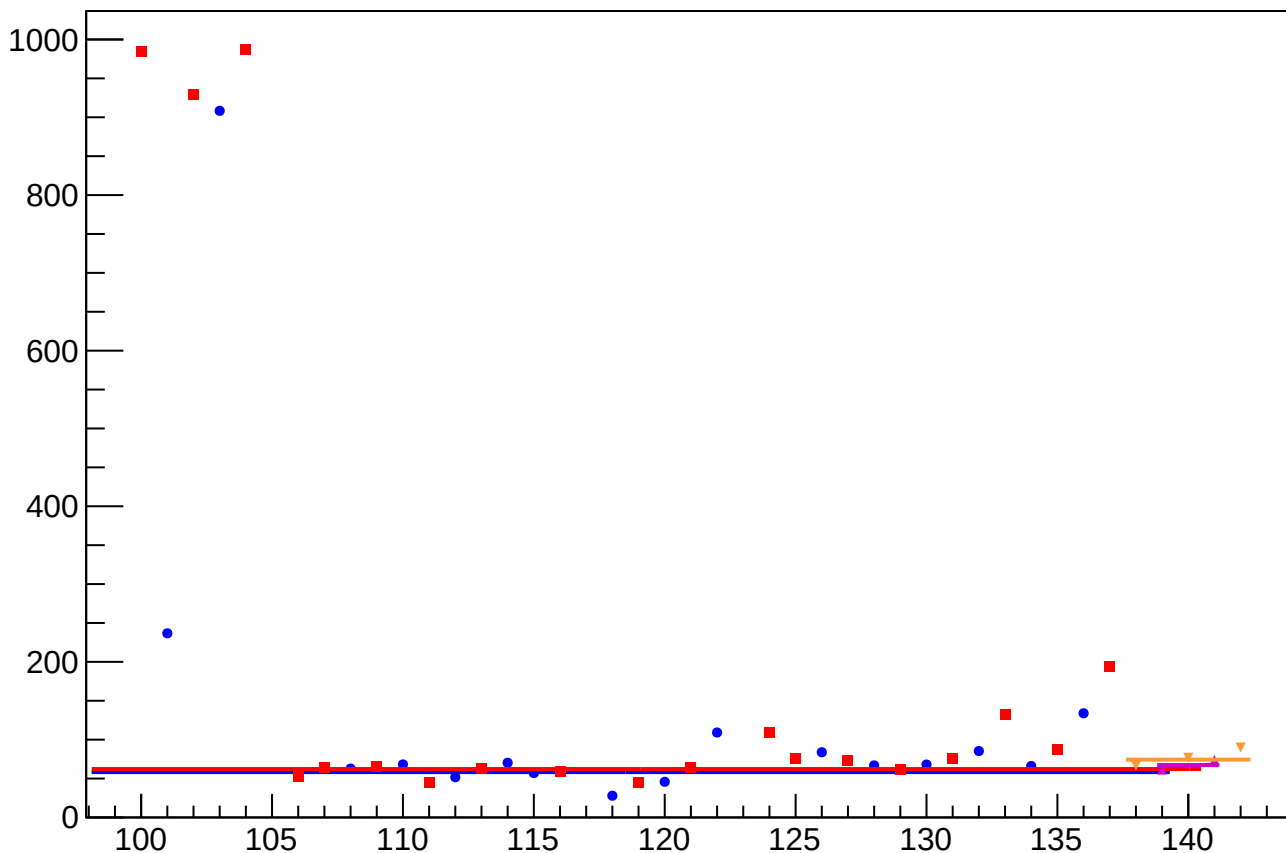
Right: -0.004 $\pm$ 0.020 χ^2 /NDF: 36.8/34

In: 0.012 $\pm$ 0.025 χ^2 /NDF:15.1/17

Out: -0.018 $\pm$ 0.025 χ^2 /NDF:25.0/21

All: -0.003 $\pm$ 0.018 χ^2 /NDF: 40.8/39

asym_atr1_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 58.312 $\pm$ 0.020 χ^2 /NDF: 3260484.2/15

Left Out: 74.336 $\pm$ 0.041 χ^2 /NDF:38919.9/2

Right Out: 62.235 $\pm$ 0.020 χ^2 /NDF: 2627022.3/18

Left In: 67.370 $\pm$ 0.040 χ^2 /NDF:22591.2/1

Left: 70.773 $\pm$ 0.029 χ^2 /NDF: 76137.1/4

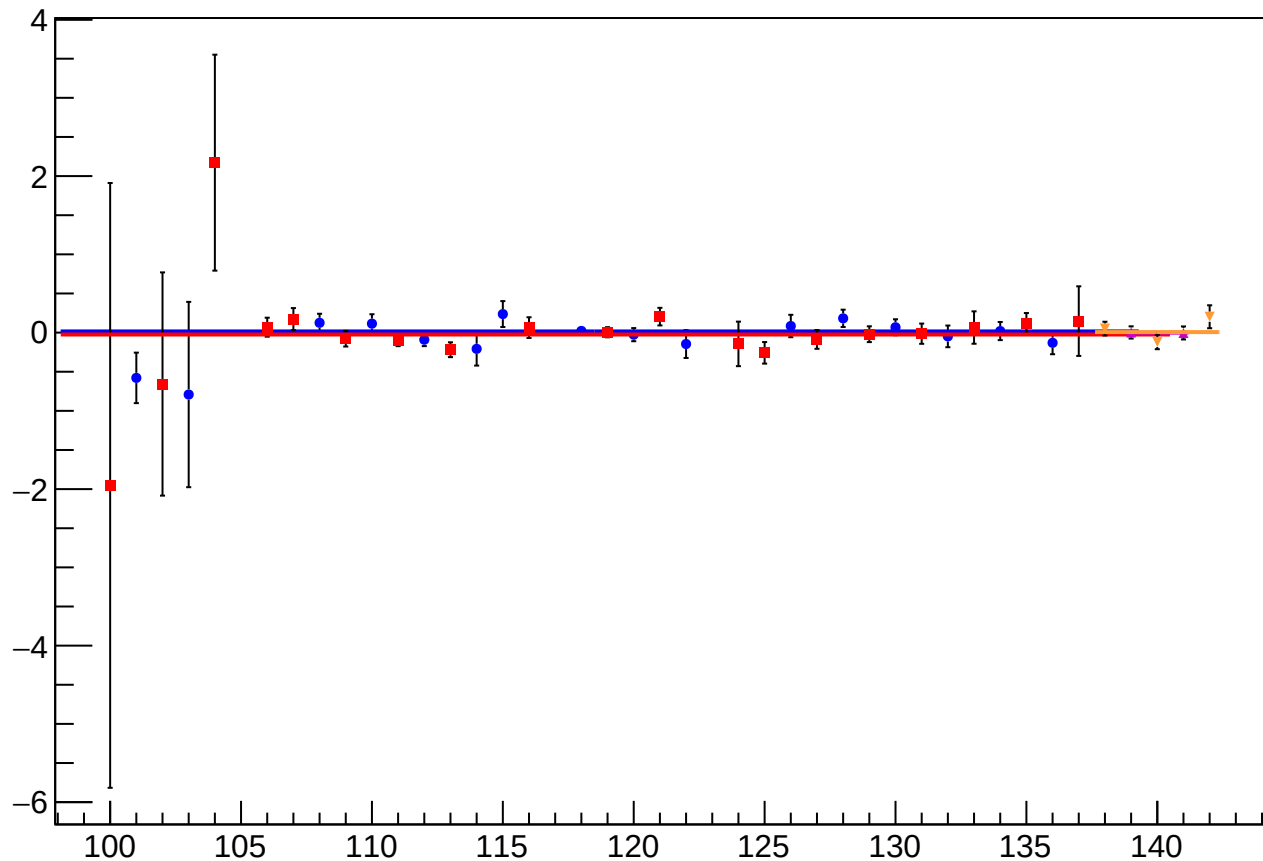
Right: 60.260 $\pm$ 0.014 χ^2 /NDF: 5907238.5/34

In: 60.059 $\pm$ 0.018 χ^2 /NDF:3323932.2/17

Out: 64.509 $\pm$ 0.018 χ^2 /NDF:2736003.6/21

All: 62.262 $\pm$ 0.013 χ^2 /NDF: 6091298.1/39

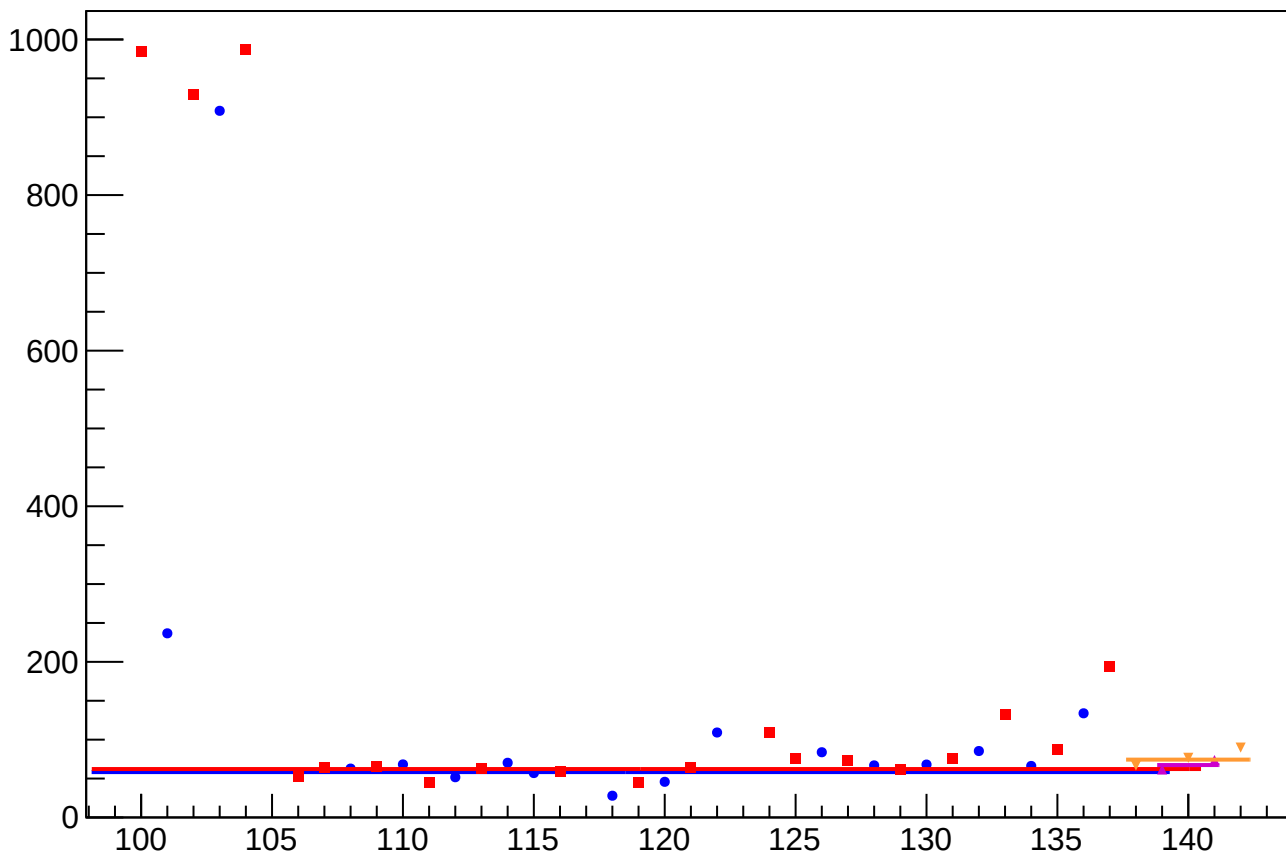
asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.028 χ^2 /NDF: 15.0/15
 Left Out: 0.006 $\pm$ 0.058 χ^2 /NDF:3.9/2
 Right Out: -0.024 $\pm$ 0.028 χ^2 /NDF: 20.8/18
 Left In: -0.001 $\pm$ 0.057 χ^2 /NDF:0.0/1

Left: 0.003 $\pm$ 0.041 χ^2 /NDF: 3.9/4
 Right: -0.004 $\pm$ 0.020 χ^2 /NDF: 36.8/34
 In: 0.012 $\pm$ 0.025 χ^2 /NDF:15.1/17
 Out: -0.018 $\pm$ 0.025 χ^2 /NDF:25.0/21
 All: -0.003 $\pm$ 0.018 χ^2 /NDF: 40.8/39

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 58.312 $\pm$ 0.020 χ^2 /NDF: 3260484.2/15

Left Out: 74.336 $\pm$ 0.041 χ^2 /NDF:38919.9/2

Right Out: 62.235 $\pm$ 0.020 χ^2 /NDF: 2627022.3/18

Left In: 67.370 $\pm$ 0.040 χ^2 /NDF:22591.2/1

Left: 70.773 $\pm$ 0.029 χ^2 /NDF: 76137.1/4

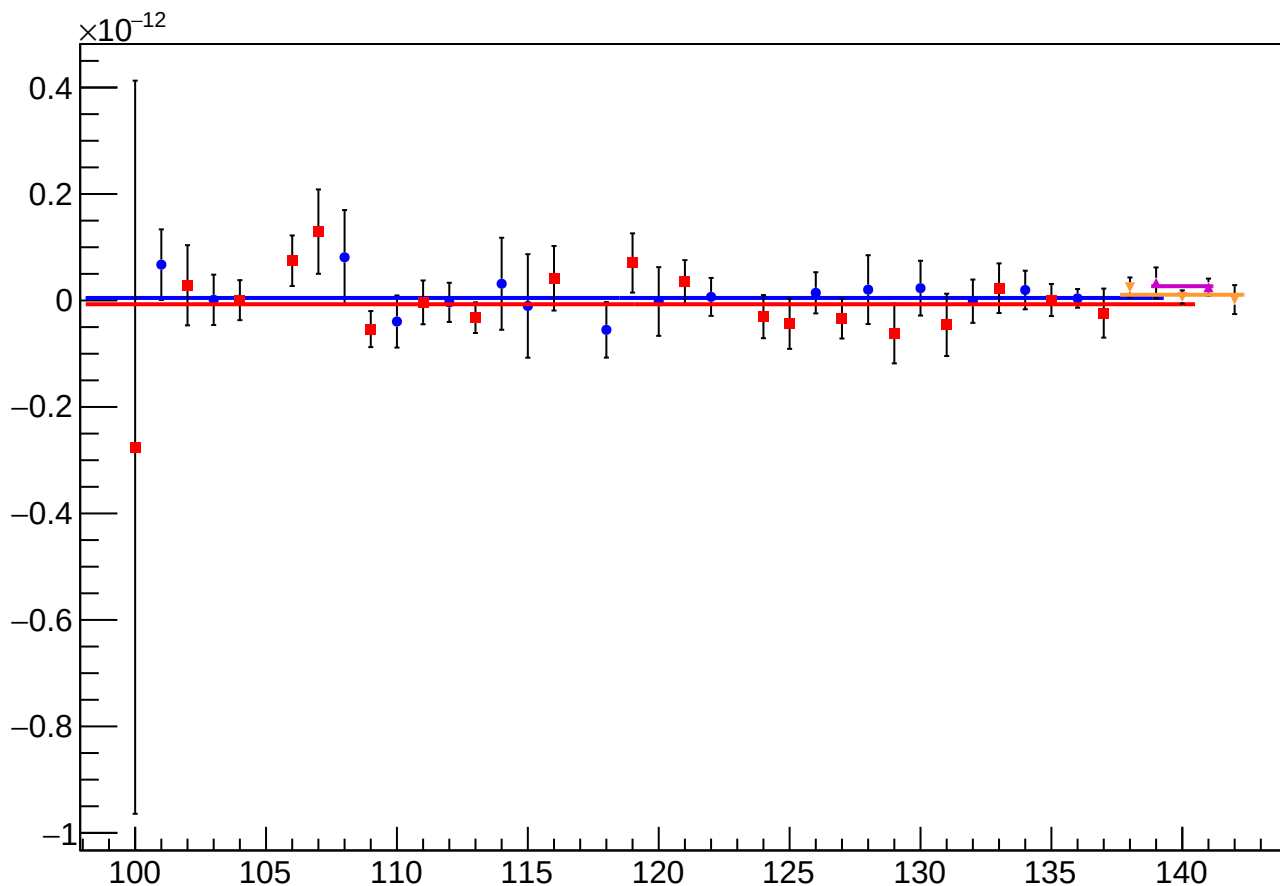
Right: 60.260 $\pm$ 0.014 χ^2 /NDF: 5907238.5/34

In: 60.059 $\pm$ 0.018 χ^2 /NDF:3323932.2/17

Out: 64.509 $\pm$ 0.018 χ^2 /NDF:2736003.6/21

All: 62.262 $\pm$ 0.013 χ^2 /NDF: 6091298.1/39

asym_atr1_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 4.4/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.8/2$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 16.1/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.1/1$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 1.7/4$

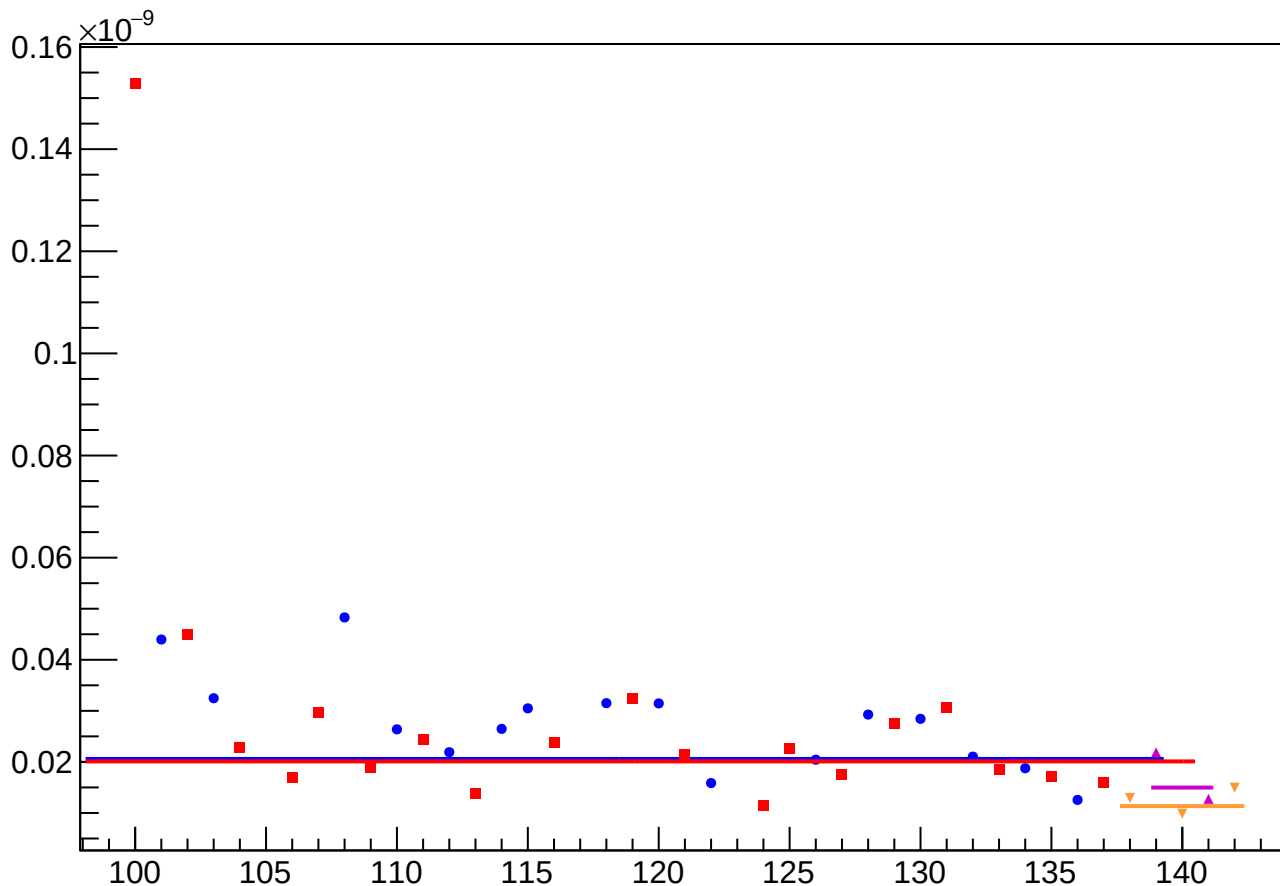
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 21.2/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 6.1/17$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 18.5/21$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 25.4/39$

asym_atr1_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1319631.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 78194.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 812191.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 149975.5/1

Left: 0.000+/-0.000 χ^2/NDF : 316757.0/4

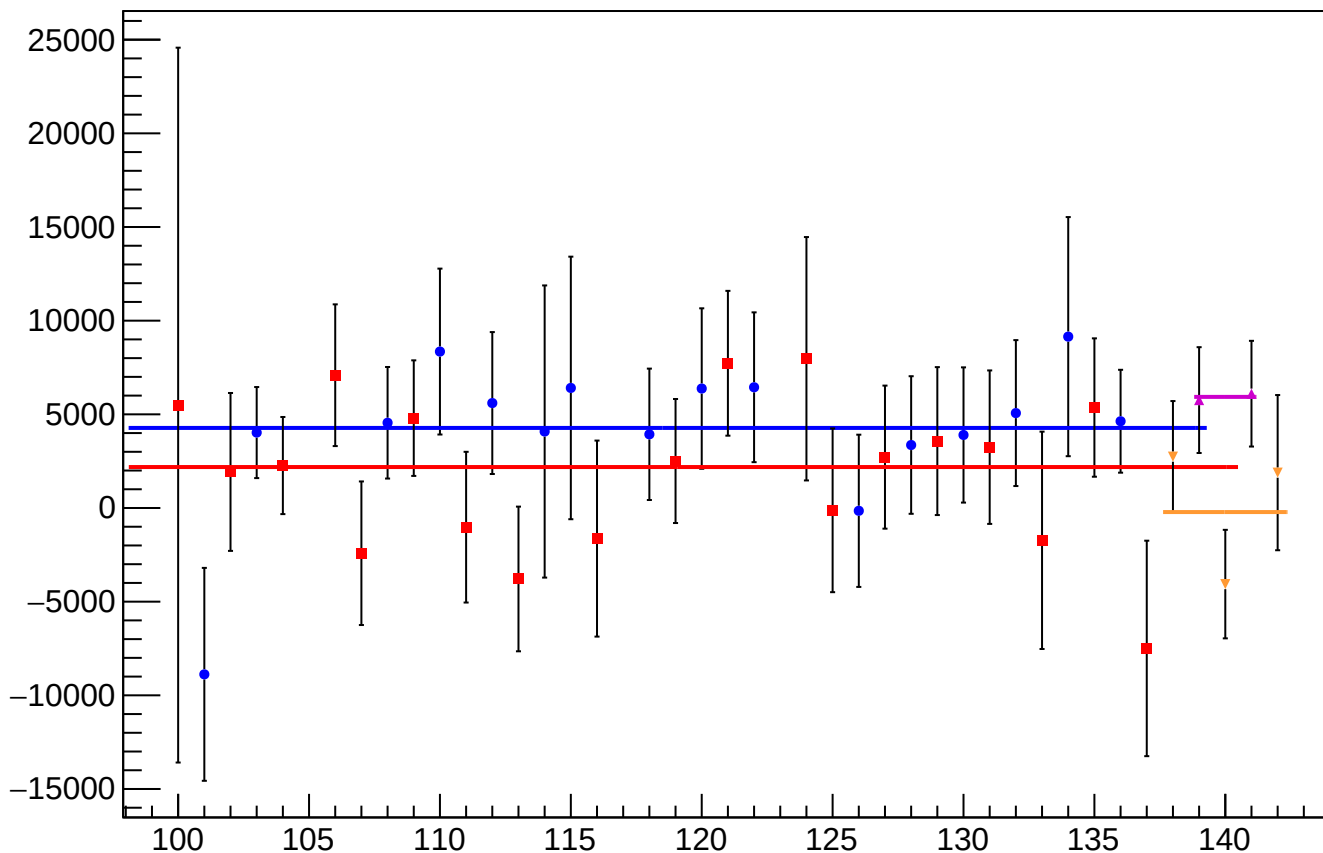
Right: 0.000+/-0.000 χ^2/NDF : 2134051.1/34

In: 0.000+/-0.000 χ^2/NDF : 1674114.5/17

Out: 0.000+/-0.000 χ^2/NDF : 1666274.2/21

All: 0.000+/-0.000 χ^2/NDF : 3502792.3/39

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4274.393+/-951.956 χ^2/NDF : 8.9/15

Left Out: -216.851+/-1853.785 χ^2/NDF : 3.0/2

Right Out: 2186.264+/-922.104 χ^2/NDF : 14.8/18

Left In: 5931.468+/-1996.151 χ^2/NDF : 0.0/1

Left: 2630.262+/-1358.368 χ^2/NDF : 8.1/4

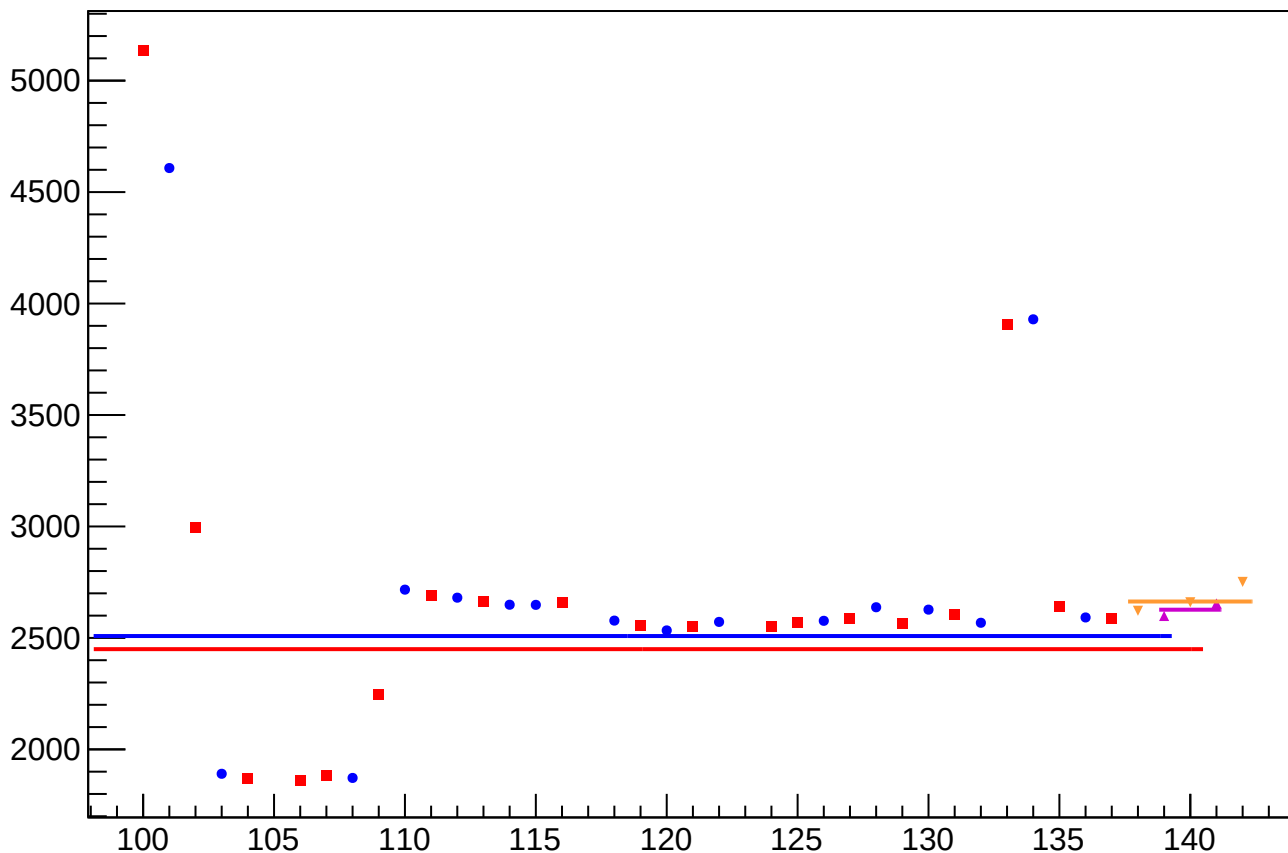
Right: 3197.075+/-662.328 χ^2/NDF : 26.2/34

In: 4581.431+/-859.248 χ^2/NDF : 9.5/17

Out: 1709.612+/-825.606 χ^2/NDF : 19.2/21

All: 3088.202+/-595.330 χ^2/NDF : 34.4/39

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2508.466+/-0.673 χ^2/NDF : 611589.6/15

Left Out: 2663.331+/-1.311 χ^2/NDF :1295.6/2

Right Out: 2449.623+/-0.652 χ^2/NDF : 436901.0/18

Left In: 2626.598+/-1.411 χ^2/NDF :396.4/1

Left: 2646.321+/-0.961 χ^2/NDF : 2055.6/4

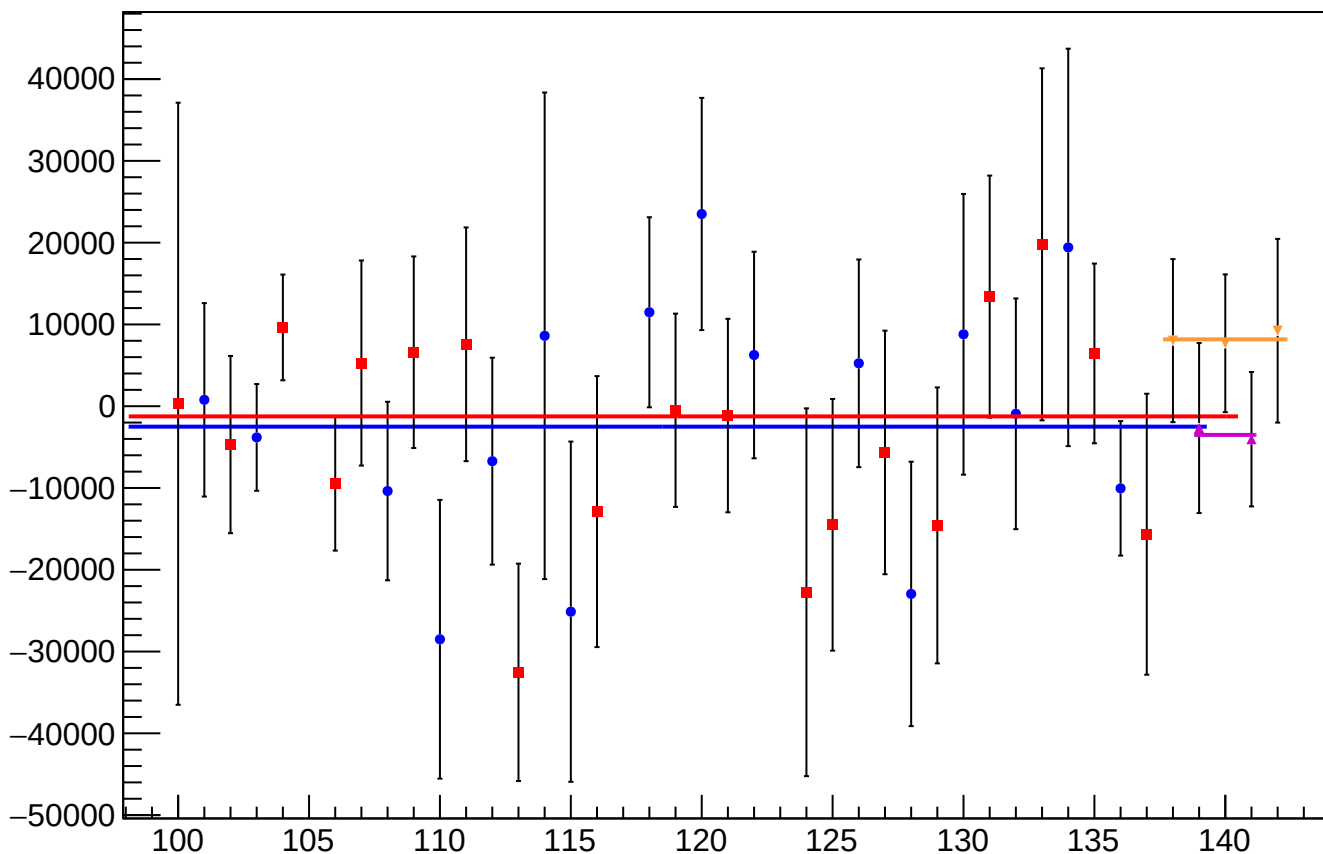
Right: 2478.107+/-0.468 χ^2/NDF : 1052433.3/34

In: 2530.355+/-0.608 χ^2/NDF :617692.7/17

Out: 2492.011+/-0.584 χ^2/NDF :459504.4/21

All: 2510.418+/-0.421 χ^2/NDF : 1079268.0/39

asym_atr2_reg_correction_mean vs Slug, Sign Corrected



Right In: -2500.602 $\pm$ 3075.580 χ^2 /NDF: 13.8/15

Left Out: 8174.869 $\pm$ 5582.781 χ^2 /NDF:0.0/2

Right Out: -1244.352 $\pm$ 2852.739 χ^2 /NDF: 16.6/18

Left In: -3509.518 $\pm$ 6447.819 χ^2 /NDF:0.0/1

Left: 3168.499 $\pm$ 4220.573 χ^2 /NDF: 1.9/4

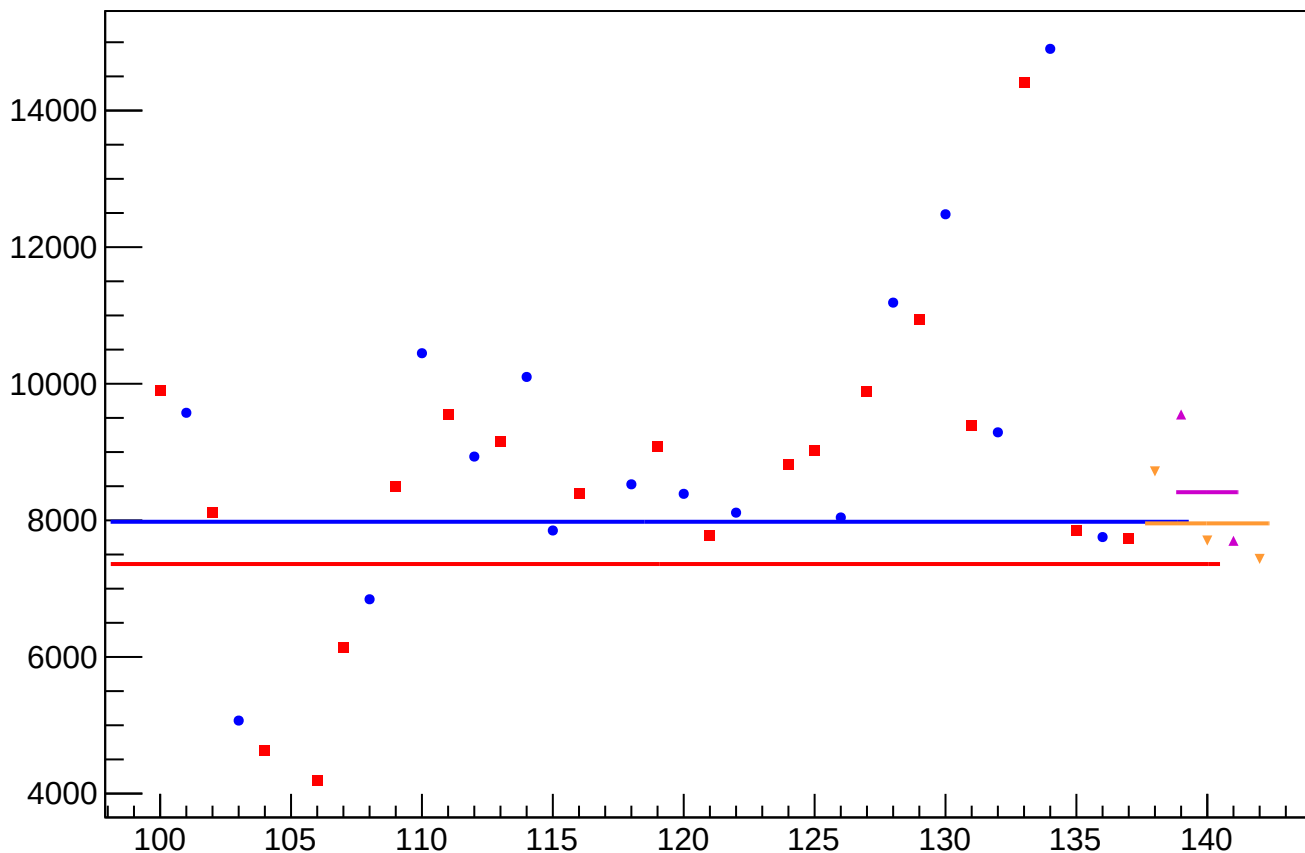
Right: -1825.322 $\pm$ 2091.539 χ^2 /NDF: 30.4/34

In: -2687.607 $\pm$ 2775.952 χ^2 /NDF:13.8/17

Out: 705.874 $\pm$ 2540.304 χ^2 /NDF:18.9/21

All: -840.742 $\pm$ 1874.047 χ^2 /NDF: 33.5/39

asym_atr2_reg_correction_rms vs Slug, Sign Corrected



Right In: 7979.488+/-2.175 χ^2/NDF : 923083.9/15

Left Out: 7955.824+/-3.948 χ^2/NDF : 17719.5/2

Right Out: 7360.741+/-2.017 χ^2/NDF : 1286008.5/18

Left In: 8412.399+/-4.559 χ^2/NDF : 38934.3/1

Left: 8151.451+/-2.984 χ^2/NDF : 62385.3/4

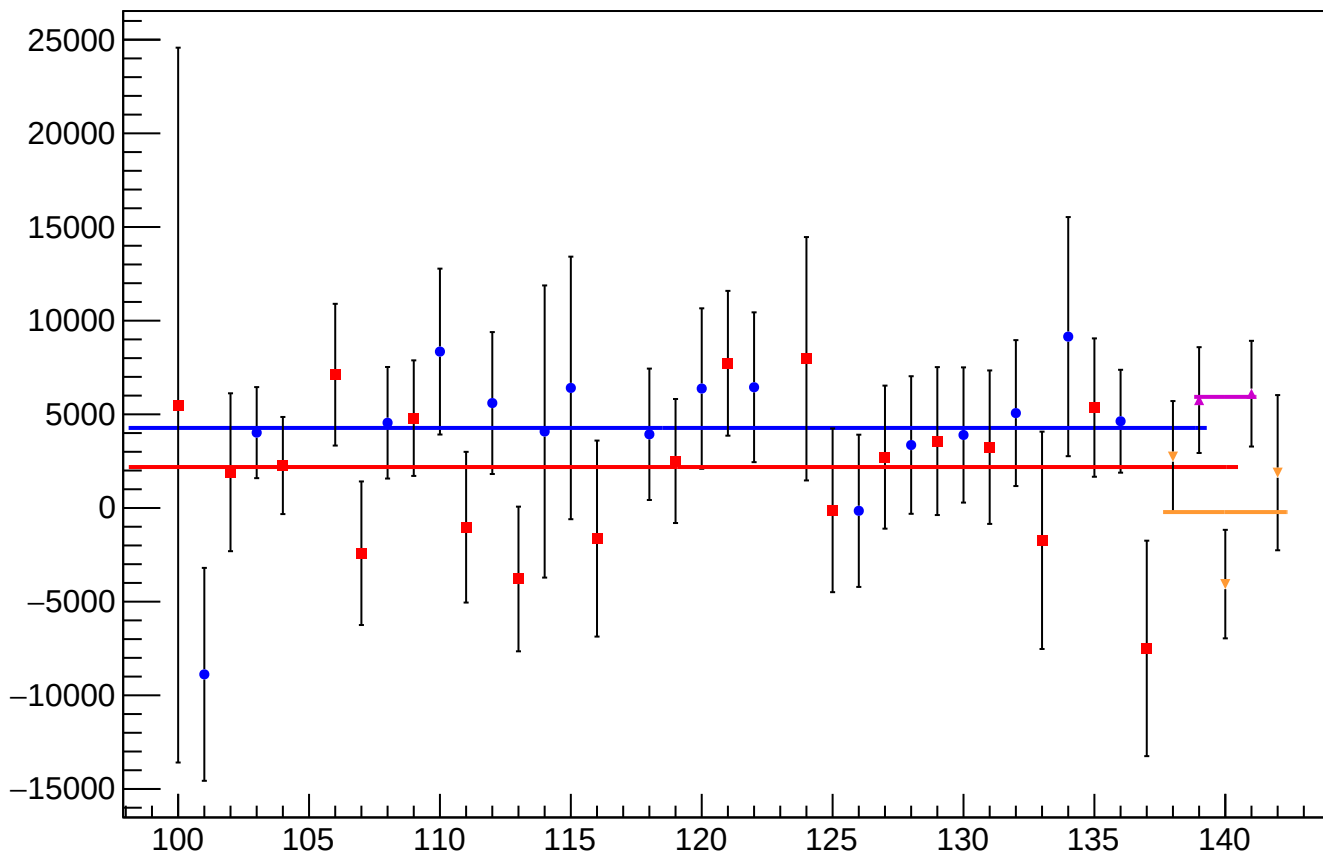
Right: 7646.889+/-1.479 χ^2/NDF : 2252604.4/34

In: 8059.729+/-1.963 χ^2/NDF : 969362.8/17

Out: 7483.952+/-1.796 χ^2/NDF : 1321747.0/21

All: 7746.368+/-1.325 χ^2/NDF : 2337937.7/39

cor_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4273.903 $\pm$ 951.956 χ^2 /NDF: 8.9/15

Left Out: -217.199 $\pm$ 1853.785 χ^2 /NDF:3.0/2

Right Out: 2186.887 $\pm$ 922.111 χ^2 /NDF: 14.8/18

Left In: 5931.730 $\pm$ 1996.151 χ^2 /NDF:0.0/1

Left: 2630.196 $\pm$ 1358.369 χ^2 /NDF: 8.1/4

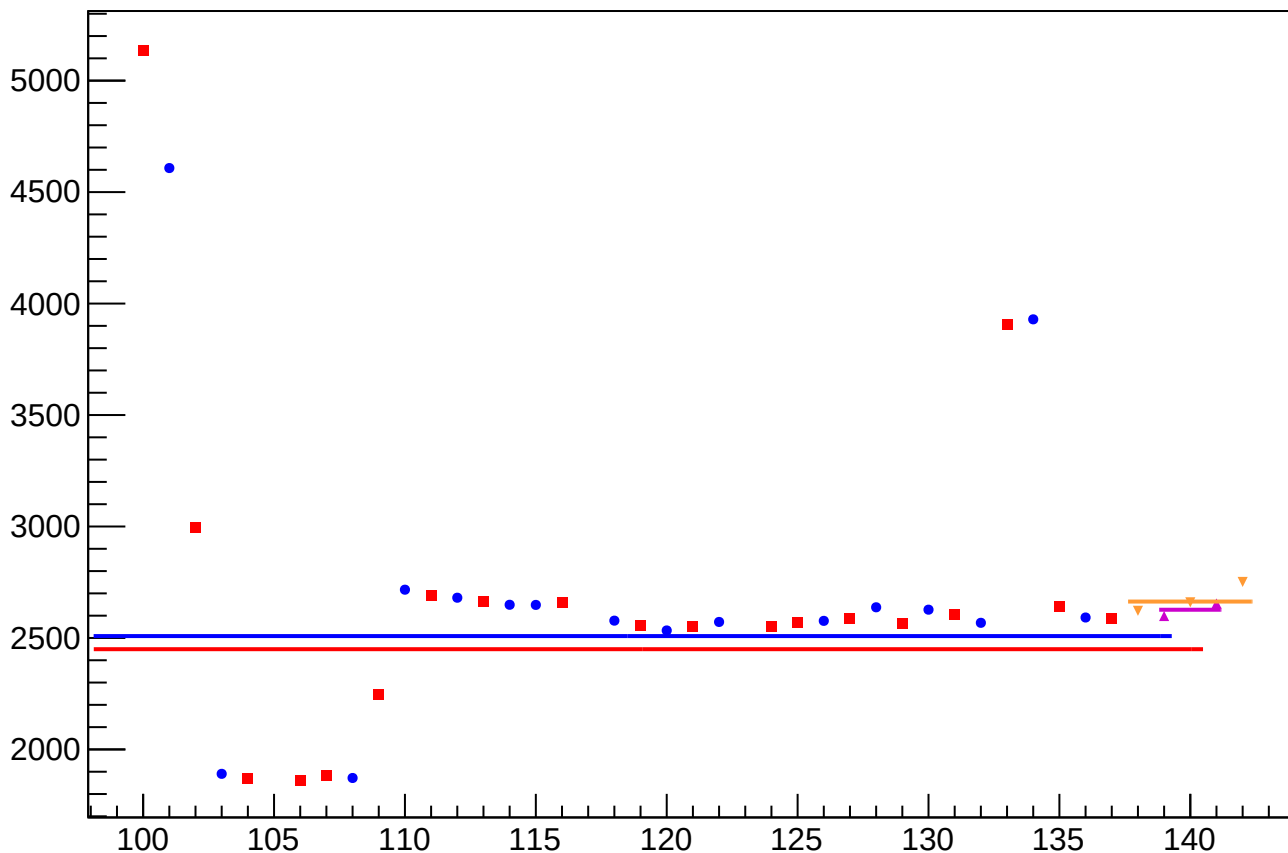
Right: 3197.167 $\pm$ 662.331 χ^2 /NDF: 26.2/34

In: 4581.080 $\pm$ 859.248 χ^2 /NDF:9.5/17

Out: 1710.036 $\pm$ 825.611 χ^2 /NDF:19.2/21

All: 3088.263 $\pm$ 595.332 χ^2 /NDF: 34.4/39

cor_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2508.467+/-0.673 χ^2/NDF : 611587.4/15

Left Out: 2663.331+/-1.311 χ^2/NDF :1295.6/2

Right Out: 2449.647+/-0.652 χ^2/NDF : 436846.6/18

Left In: 2626.598+/-1.411 χ^2/NDF :396.4/1

Left: 2646.321+/-0.961 χ^2/NDF : 2055.6/4

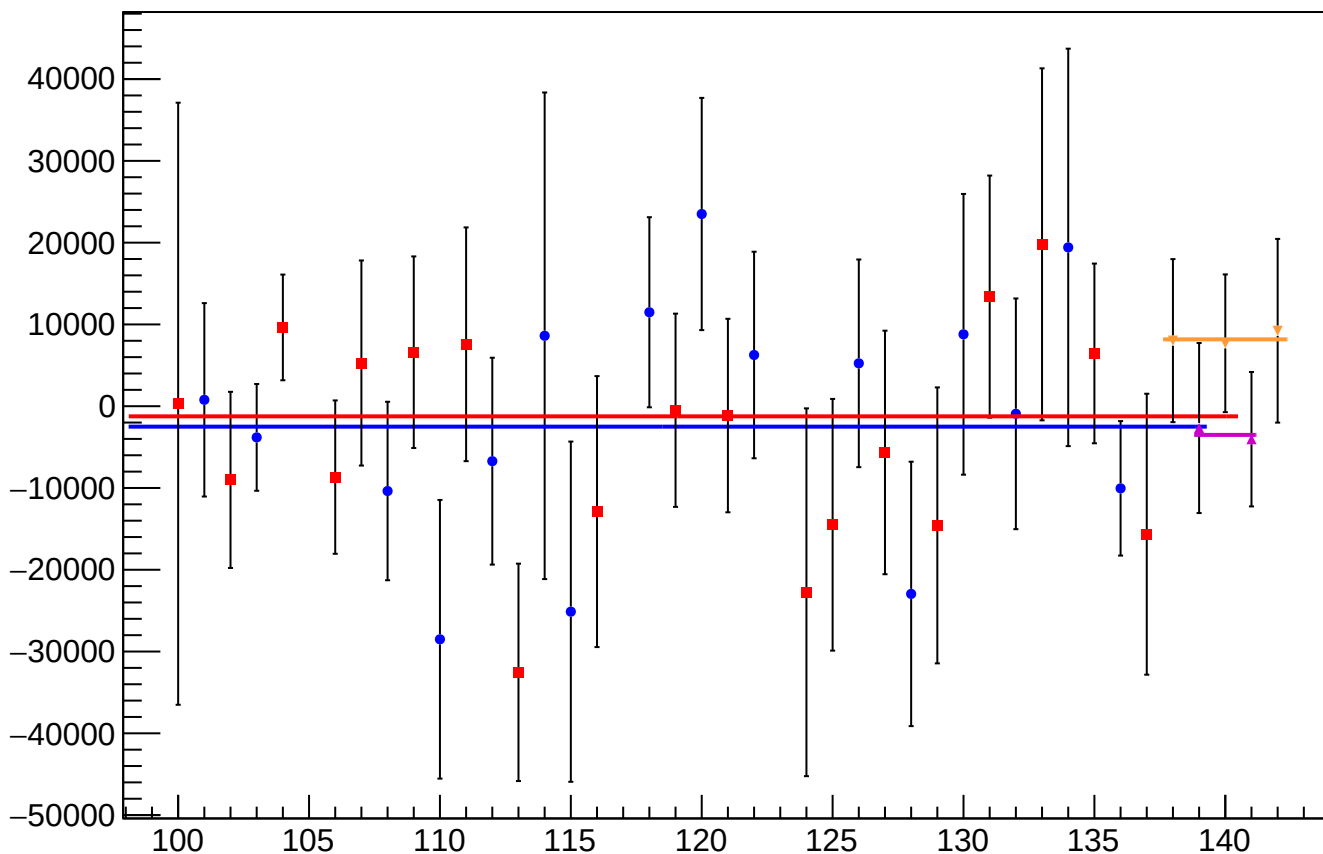
Right: 2478.121+/-0.468 χ^2/NDF : 1052373.5/34

In: 2530.356+/-0.608 χ^2/NDF :617690.4/17

Out: 2492.031+/-0.584 χ^2/NDF :459445.1/21

All: 2510.429+/-0.421 χ^2/NDF : 1079204.3/39

asym_atr2_cor_correction_mean vs Slug, Sign Corrected



Right In: -2500.380+/-3075.668 χ^2/NDF : 13.8/15

Left Out: 8174.288+/-5582.758 χ^2/NDF : 0.0/2

Right Out: -1239.896+/-2893.464 χ^2/NDF : 16.6/18

Left In: -3509.465+/-6447.814 χ^2/NDF : 0.0/1

Left: 3168.209+/-4220.561 χ^2/NDF : 1.9/4

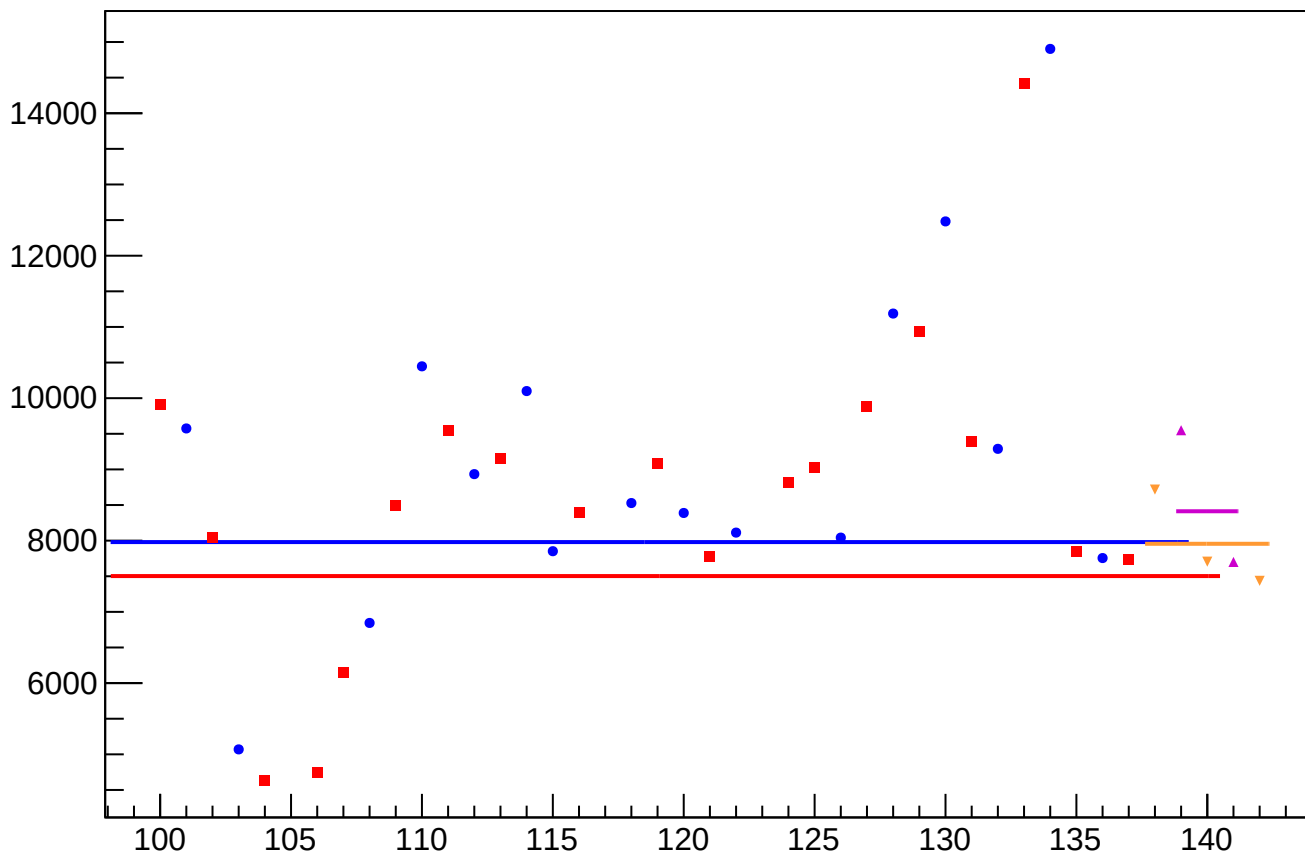
Right: -1831.698+/-2107.459 χ^2/NDF : 30.5/34

In: -2687.425+/-2776.016 χ^2/NDF : 13.8/17

Out: 753.482+/-2568.930 χ^2/NDF : 18.9/21

All: -833.856+/-1885.473 χ^2/NDF : 33.5/39

asym_atr2_cor_correction_rms vs Slug, Sign Corrected



Right In: 7979.812+/-2.175 χ^2/NDF : 922785.4/15

Left Out: 7955.788+/-3.948 χ^2/NDF : 17720.7/2

Right Out: 7502.685+/-2.046 χ^2/NDF : 1135523.5/18

Left In: 8412.392+/-4.559 χ^2/NDF : 38934.8/1

Left: 8151.427+/-2.984 χ^2/NDF : 62387.8/4

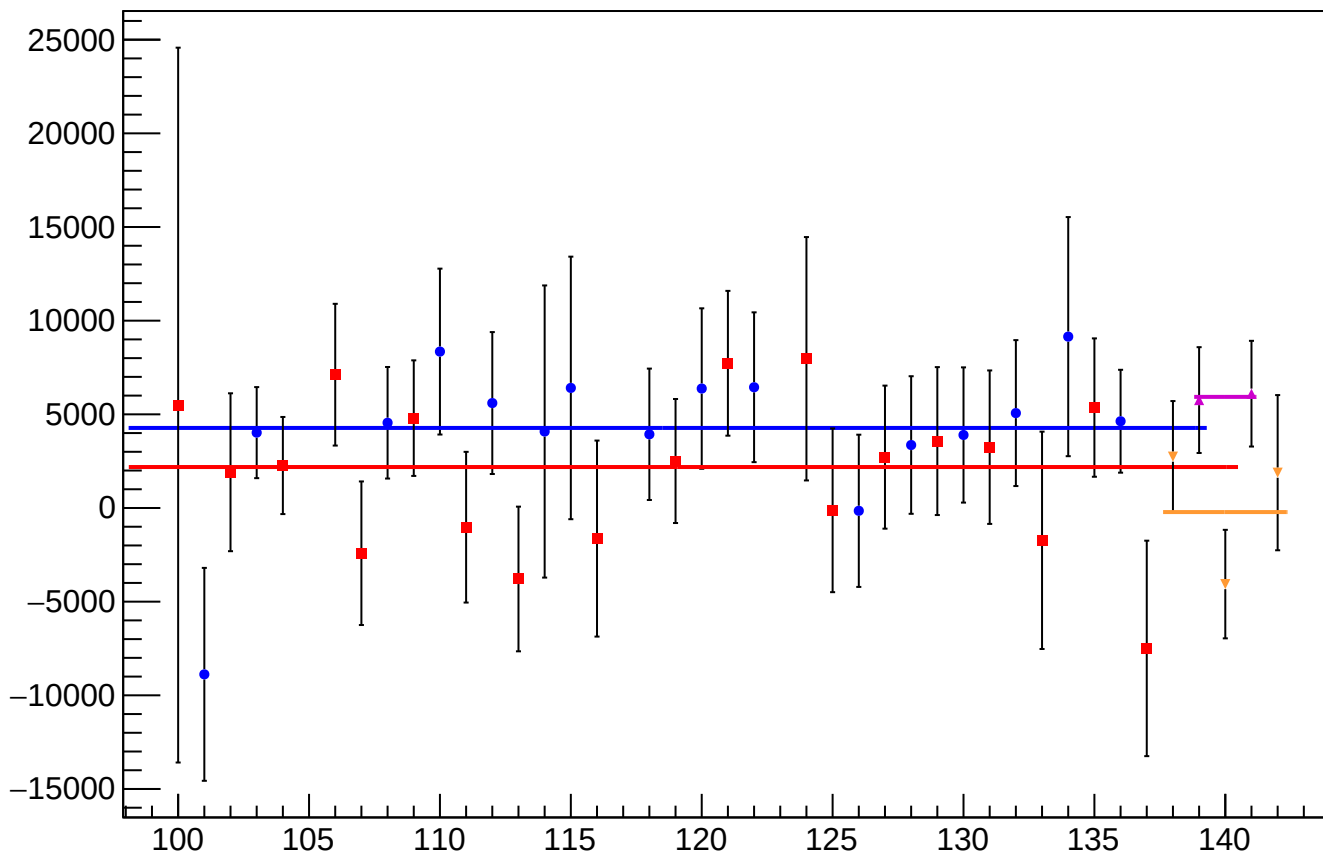
Right: 7726.698+/-1.490 χ^2/NDF : 2083841.8/34

In: 8059.995+/-1.963 χ^2/NDF : 969053.5/17

Out: 7598.626+/-1.817 χ^2/NDF : 1163629.0/21

All: 7811.462+/-1.333 χ^2/NDF : 2162441.5/39

eigen_cor_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4273.903 $\pm$ 951.956 χ^2/NDF : 8.9/15

Left Out: -217.199 $\pm$ 1853.785 χ^2/NDF : 3.0/2

Right Out: 2186.887 $\pm$ 922.111 χ^2/NDF : 14.8/18

Left In: 5931.730 $\pm$ 1996.151 χ^2/NDF : 0.0/1

Left: 2630.196 $\pm$ 1358.369 χ^2/NDF : 8.1/4

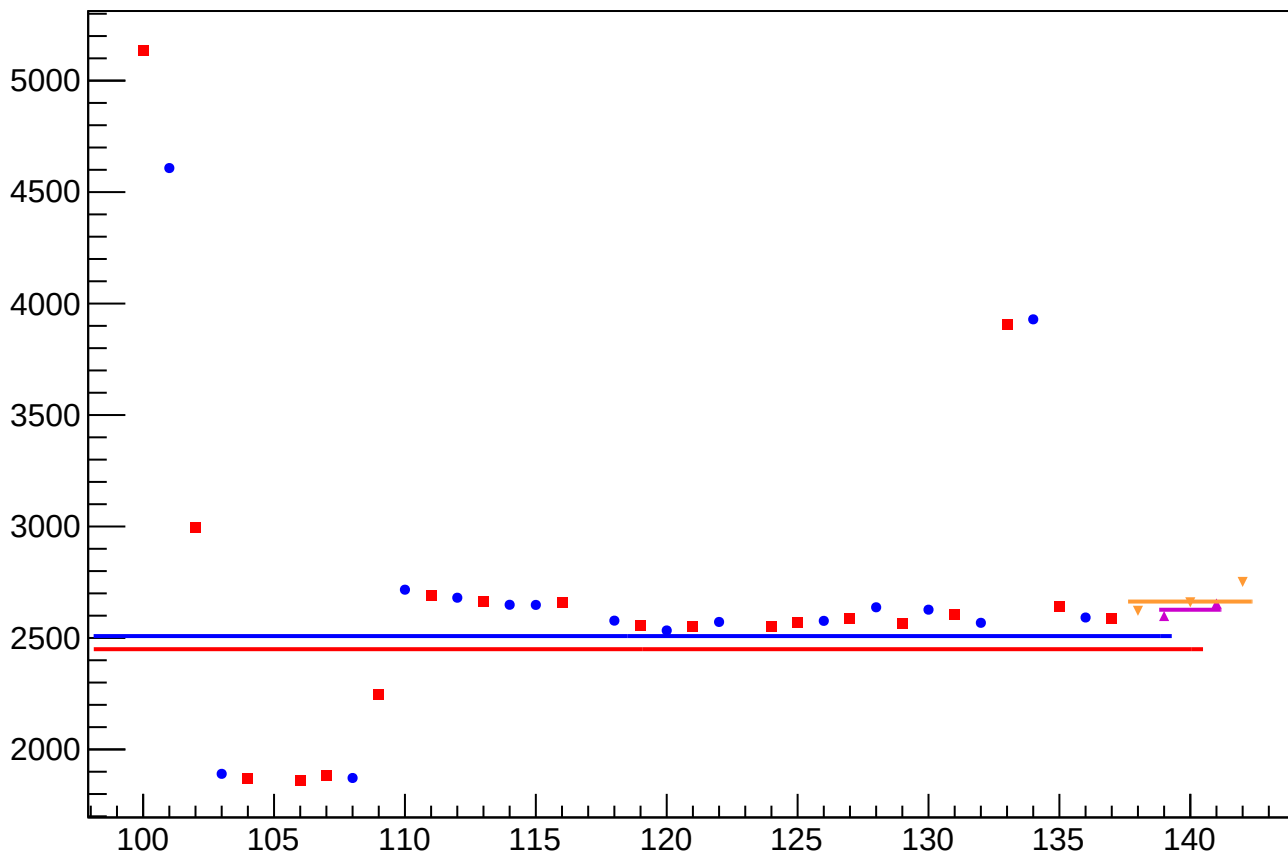
Right: 3197.167 $\pm$ 662.331 χ^2/NDF : 26.2/34

In: 4581.080 $\pm$ 859.248 χ^2/NDF : 9.5/17

Out: 1710.036 $\pm$ 825.611 χ^2/NDF : 19.2/21

All: 3088.263 $\pm$ 595.332 χ^2/NDF : 34.4/39

eigen_cor_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2508.467+/-0.673 χ^2/NDF : 611587.4/15

Left Out: 2663.331+/-1.311 χ^2/NDF :1295.6/2

Right Out: 2449.647+/-0.652 χ^2/NDF : 436846.6/18

Left In: 2626.598+/-1.411 χ^2/NDF :396.4/1

Left: 2646.321+/-0.961 χ^2/NDF : 2055.6/4

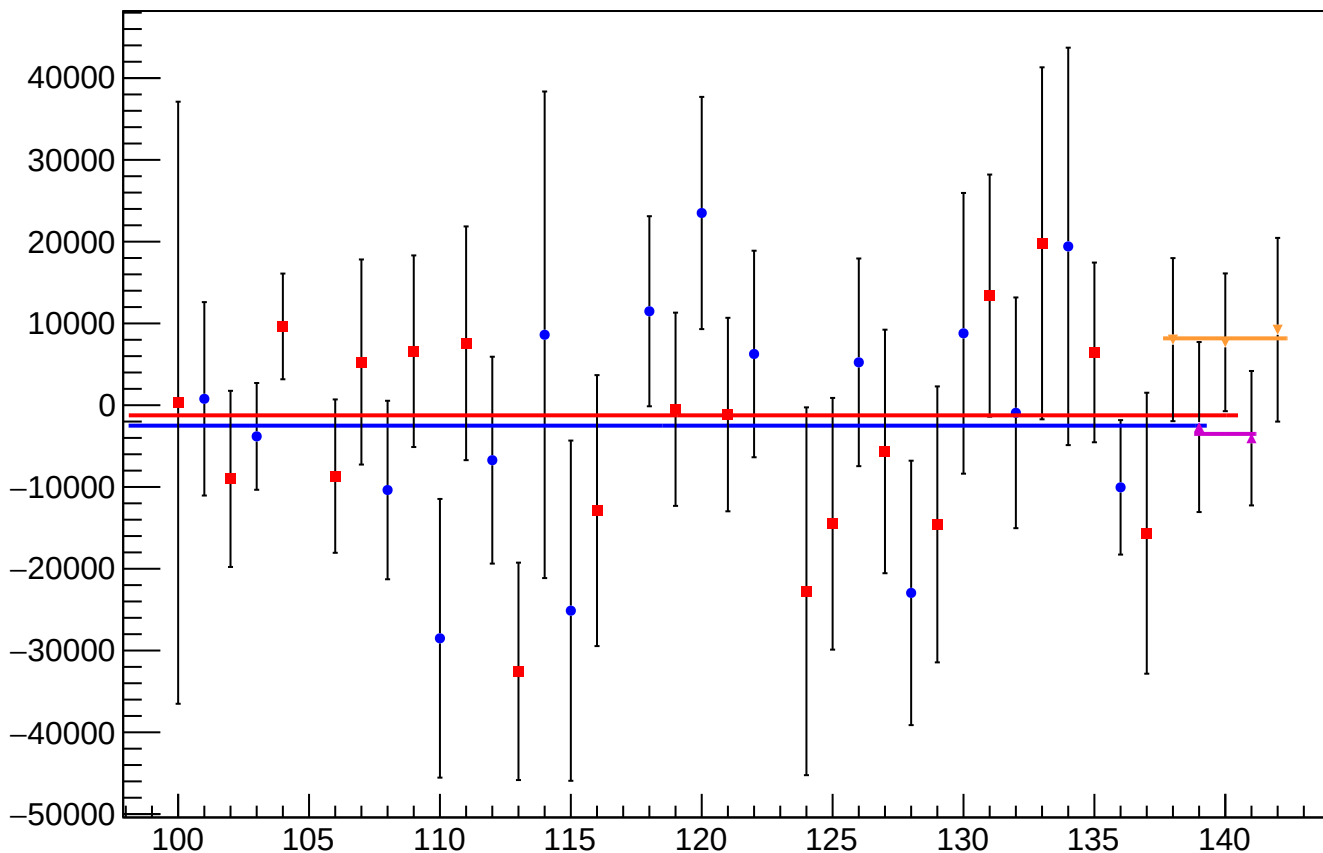
Right: 2478.121+/-0.468 χ^2/NDF : 1052373.5/34

In: 2530.356+/-0.608 χ^2/NDF :617690.4/17

Out: 2492.031+/-0.584 χ^2/NDF :459445.1/21

All: 2510.429+/-0.421 χ^2/NDF : 1079204.3/39

asym_atr2_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -2500.380+/-3075.668 χ^2/NDF : 13.8/15

Left Out: 8174.288+/-5582.758 χ^2/NDF : 0.0/2

Right Out: -1239.896+/-2893.464 χ^2/NDF : 16.6/18

Left In: -3509.465+/-6447.814 χ^2/NDF : 0.0/1

Left: 3168.209+/-4220.561 χ^2/NDF : 1.9/4

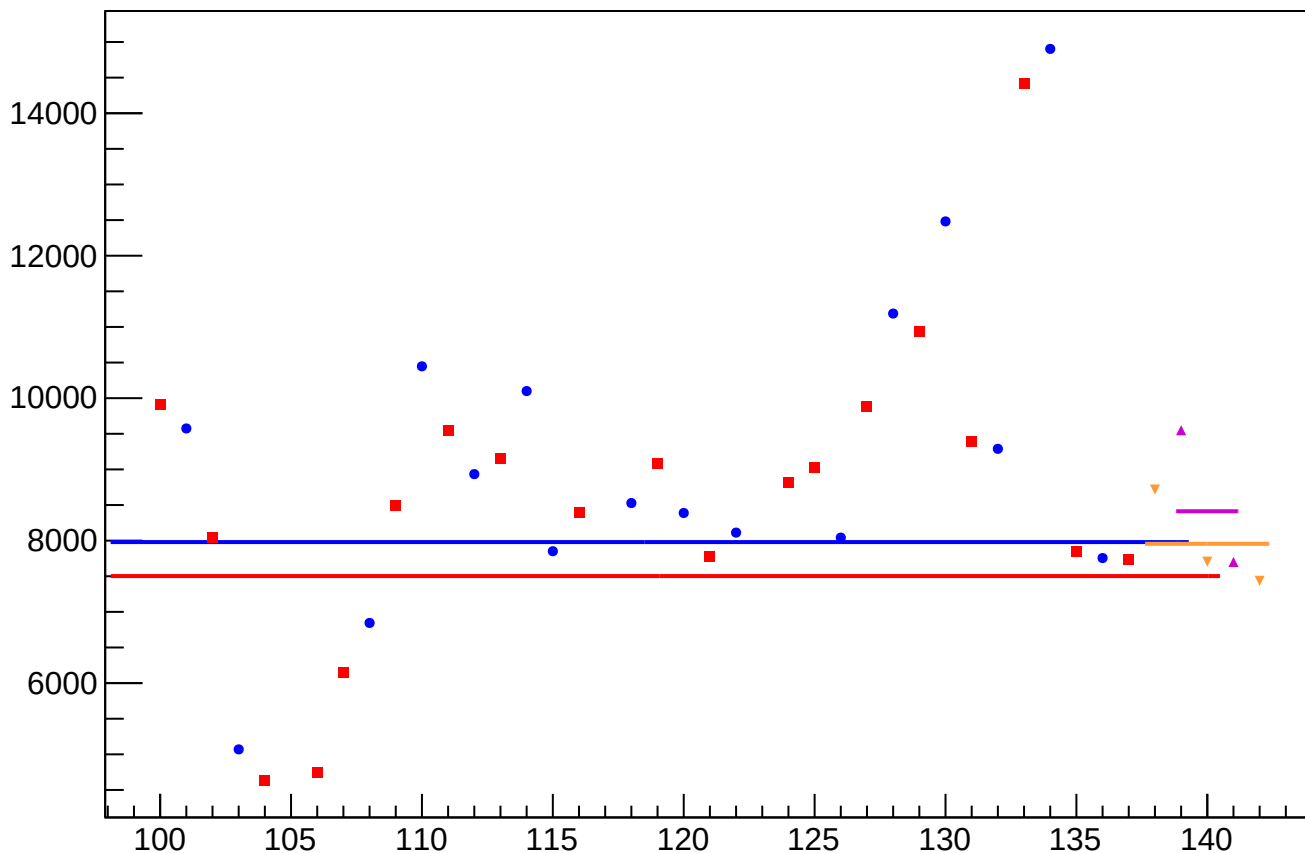
Right: -1831.698+/-2107.459 χ^2/NDF : 30.5/34

In: -2687.425+/-2776.016 χ^2/NDF : 13.8/17

Out: 753.482+/-2568.930 χ^2/NDF : 18.9/21

All: -833.856+/-1885.473 χ^2/NDF : 33.5/39

asym_atr2_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 7979.812+/-2.175 χ^2/NDF : 922785.4/15

Left Out: 7955.788+/-3.948 χ^2/NDF : 17720.7/2

Right Out: 7502.685+/-2.046 χ^2/NDF : 1135523.5/18

Left In: 8412.392+/-4.559 χ^2/NDF : 38934.8/1

Left: 8151.427+/-2.984 χ^2/NDF : 62387.8/4

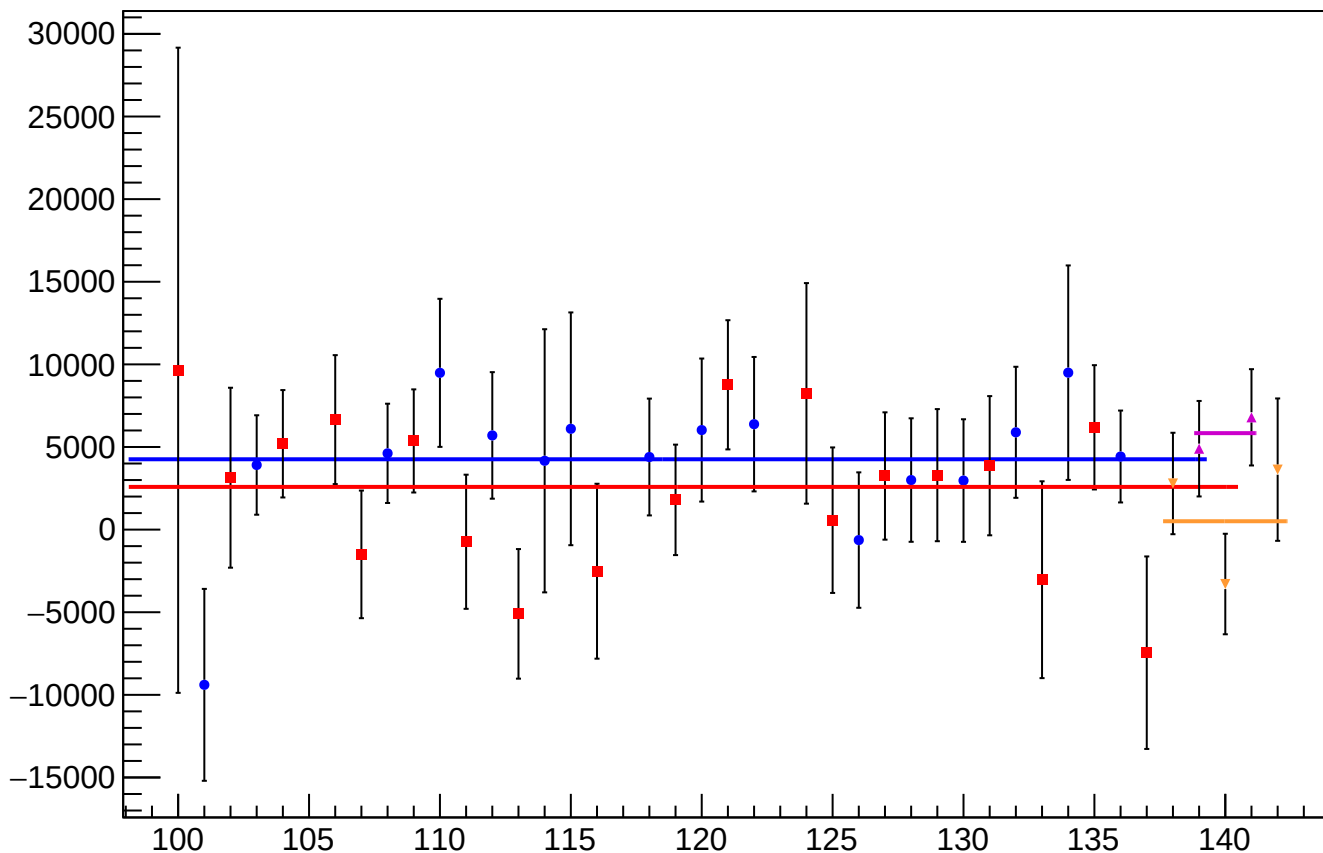
Right: 7726.698+/-1.490 χ^2/NDF : 2083841.8/34

In: 8059.995+/-1.963 χ^2/NDF : 969053.5/17

Out: 7598.626+/-1.817 χ^2/NDF : 1163629.0/21

All: 7811.462+/-1.333 χ^2/NDF : 2162441.5/39

dit_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4256.977+/-990.542 χ^2/NDF : 10.1/15

Left Out: 506.783+/-1931.409 χ^2/NDF : 2.6/2

Right Out: 2584.689+/-966.049 χ^2/NDF : 17.6/18

Left In: 5838.229+/-2051.781 χ^2/NDF : 0.2/1

Left: 3011.537+/-1406.342 χ^2/NDF : 6.4/4

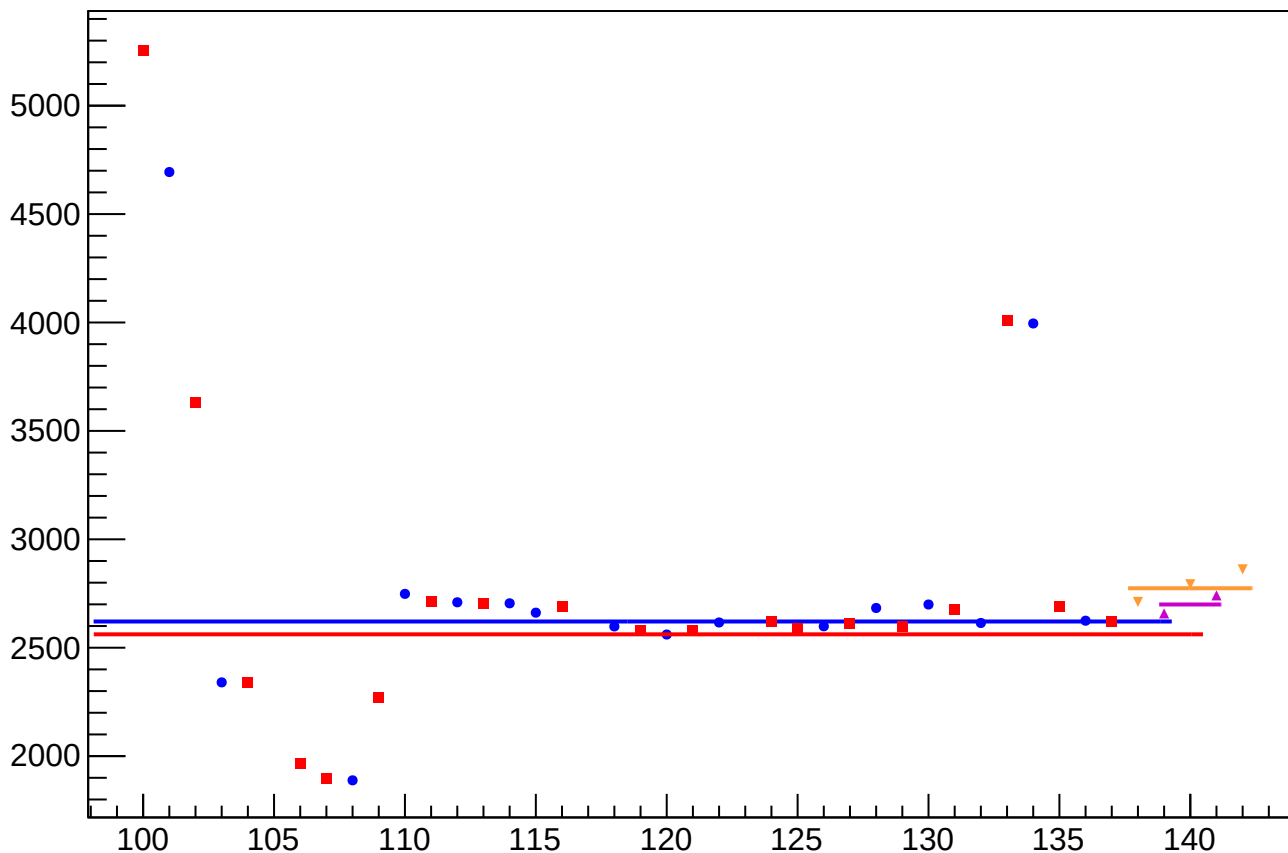
Right: 3399.902+/-691.597 χ^2/NDF : 29.1/34

In: 4555.857+/-892.029 χ^2/NDF : 10.7/17

Out: 2168.871+/-863.999 χ^2/NDF : 21.2/21

All: 3324.271+/-620.612 χ^2/NDF : 35.6/39

dit_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2620.964 ± 0.700 $\chi^2/\text{NDF}: 485914.1/15$

Left Out: 2774.249 ± 1.366 $\chi^2/\text{NDF}: 1737.3/2$

Right Out: 2561.718 ± 0.683 $\chi^2/\text{NDF}: 378259.5/18$

Left In: 2699.436 ± 1.451 $\chi^2/\text{NDF}: 821.5/1$

Left: 2739.101 ± 0.994 $\chi^2/\text{NDF}: 3968.5/4$

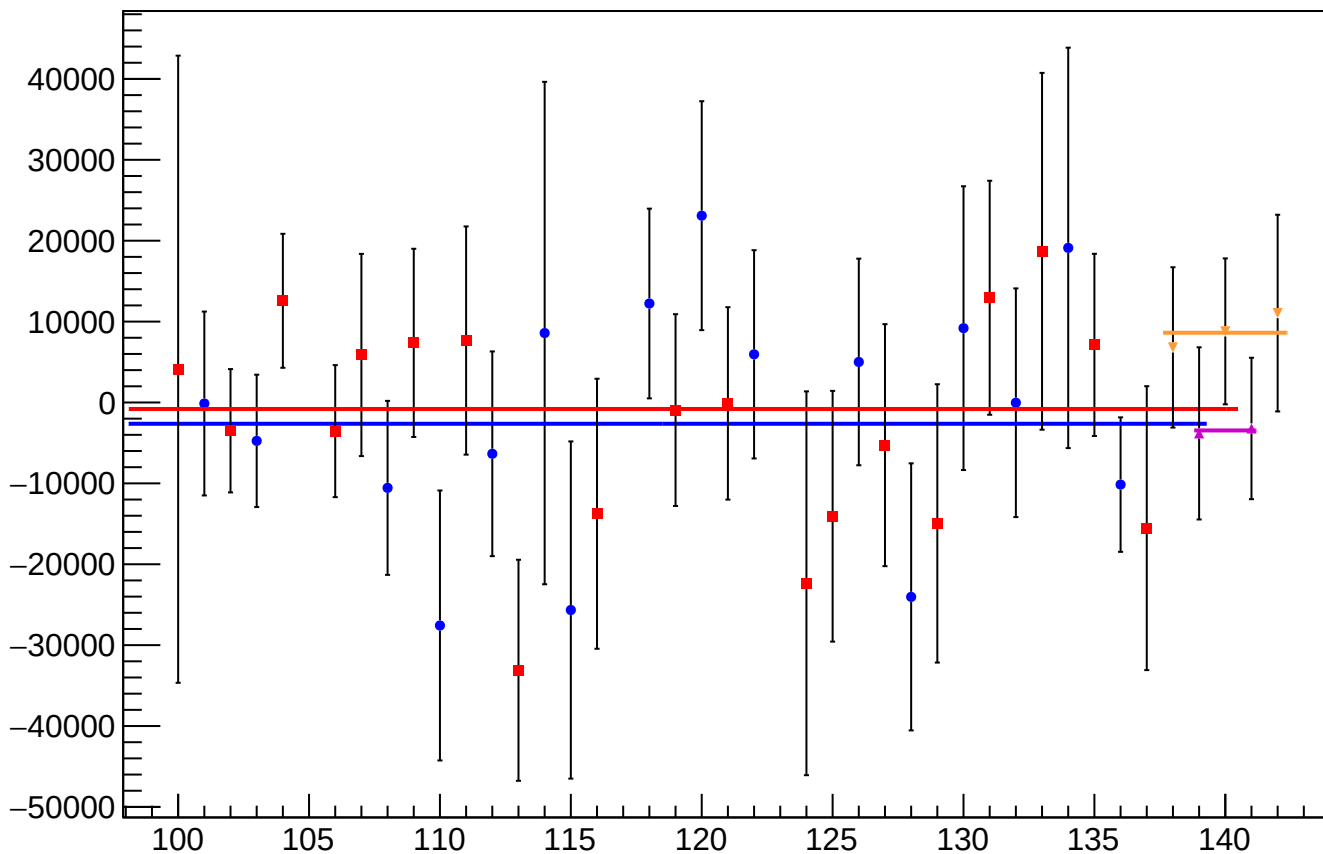
Right: 2590.582 ± 0.489 $\chi^2/\text{NDF}: 867842.6/34$

In: 2635.796 ± 0.631 $\chi^2/\text{NDF}: 489108.1/17$

Out: 2604.209 ± 0.611 $\chi^2/\text{NDF}: 399372.3/21$

All: 2619.491 ± 0.439 $\chi^2/\text{NDF}: 889775.0/39$

asym_atr2_dit_correction_mean vs Slug, Sign Corrected



Right In: -2631.921 ± 3211.506 $\chi^2/\text{NDF}: 13.8/15$

Left Out: 8623.445 ± 5848.507 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -802.880 ± 2872.934 $\chi^2/\text{NDF}: 15.4/18$

Left In: -3457.816 ± 6755.386 $\chi^2/\text{NDF}: 0.0/1$

Left: 3447.611 ± 4421.648 $\chi^2/\text{NDF}: 1.9/4$

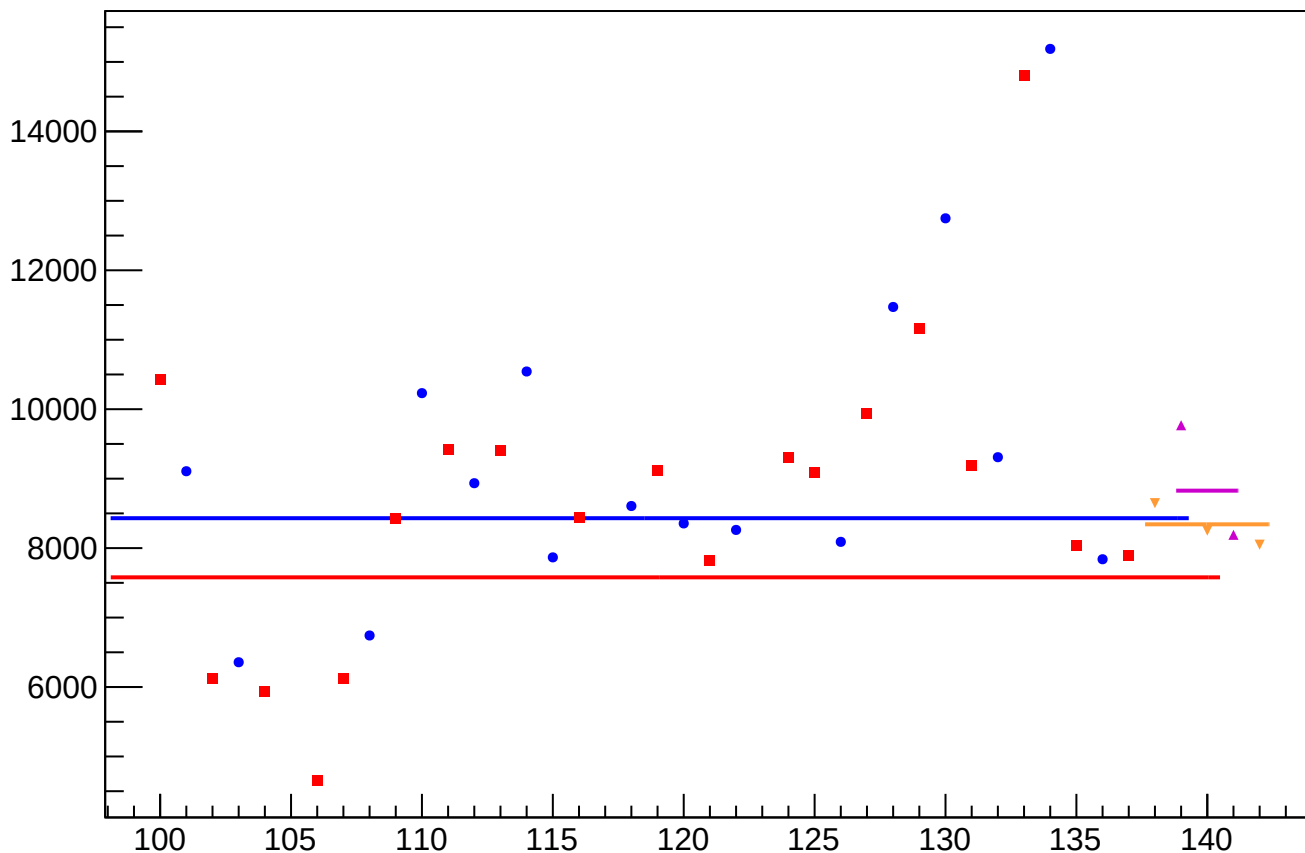
Right: -1615.936 ± 2141.201 $\chi^2/\text{NDF}: 29.4/34$

In: -2784.168 ± 2900.432 $\chi^2/\text{NDF}: 13.8/17$

Out: 1029.546 ± 2578.618 $\chi^2/\text{NDF}: 17.6/21$

All: -654.081 ± 1927.132 $\chi^2/\text{NDF}: 32.3/39$

asym_atr2_dit_correction_rms vs Slug, Sign Corrected



Right In: 8430.768 $\pm$ 2.271 χ^2 /NDF: 580295.1/15

Left Out: 8342.630 $\pm$ 4.136 χ^2 /NDF: 3251.5/2

Right Out: 7579.112 $\pm$ 2.031 χ^2 /NDF: 974126.9/18

Left In: 8827.220 $\pm$ 4.777 χ^2 /NDF: 26236.0/1

Left: 8550.237 $\pm$ 3.127 χ^2 /NDF: 35369.9/4

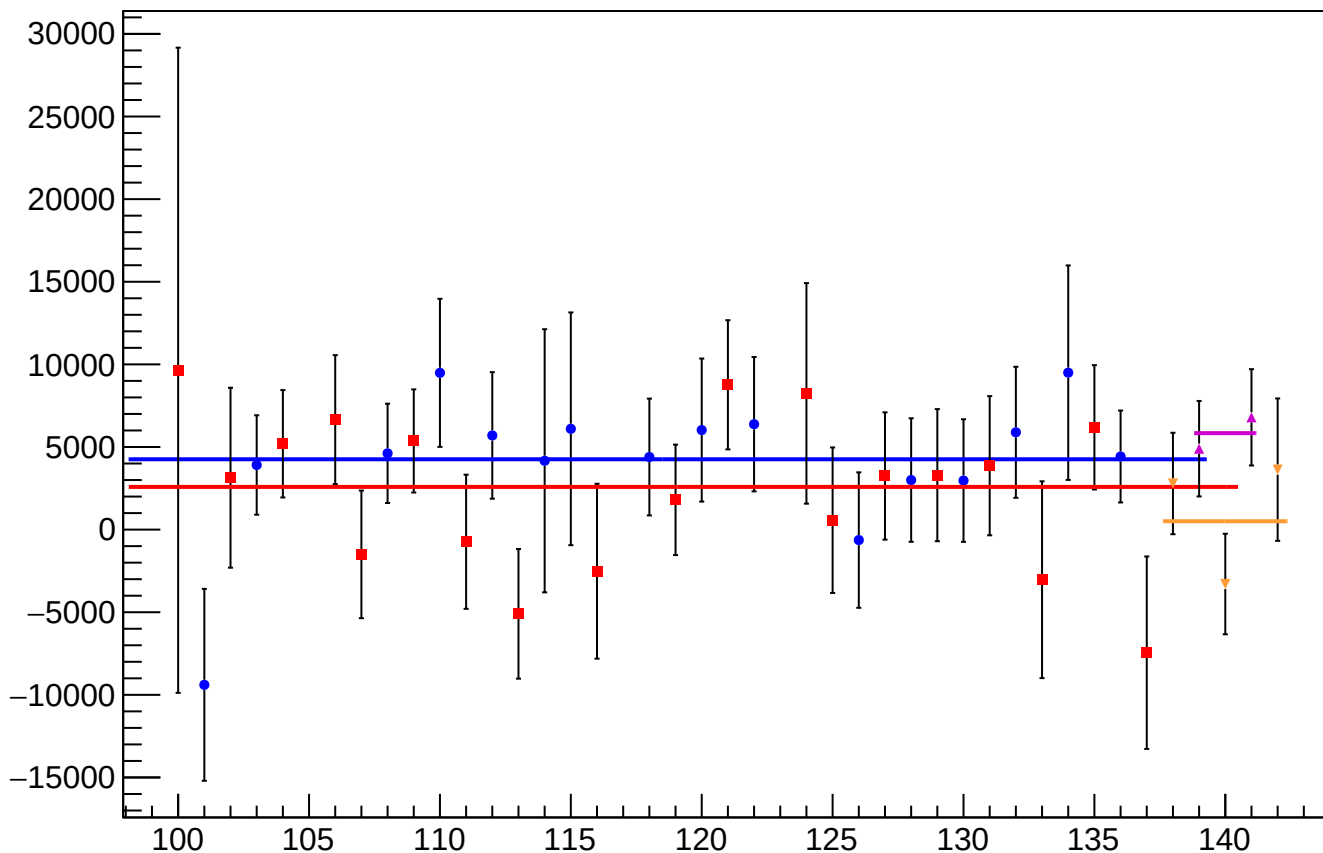
Right: 7957.695 $\pm$ 1.514 χ^2 /NDF: 1632549.6/34

In: 8503.851 $\pm$ 2.051 χ^2 /NDF: 612149.6/17

Out: 7727.536 $\pm$ 1.823 χ^2 /NDF: 1004838.4/21

All: 8070.253 $\pm$ 1.363 χ^2 /NDF: 1697013.8/39

eigen_dit_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4256.984 $\pm$ 990.541 χ^2 /NDF: 10.1/15

Left Out: 506.794 $\pm$ 1931.410 χ^2 /NDF:2.6/2

Right Out: 2584.699 $\pm$ 966.048 χ^2 /NDF: 17.6/18

Left In: 5838.190 $\pm$ 2051.781 χ^2 /NDF:0.2/1

Left: 3011.524 $\pm$ 1406.342 χ^2 /NDF: 6.4/4

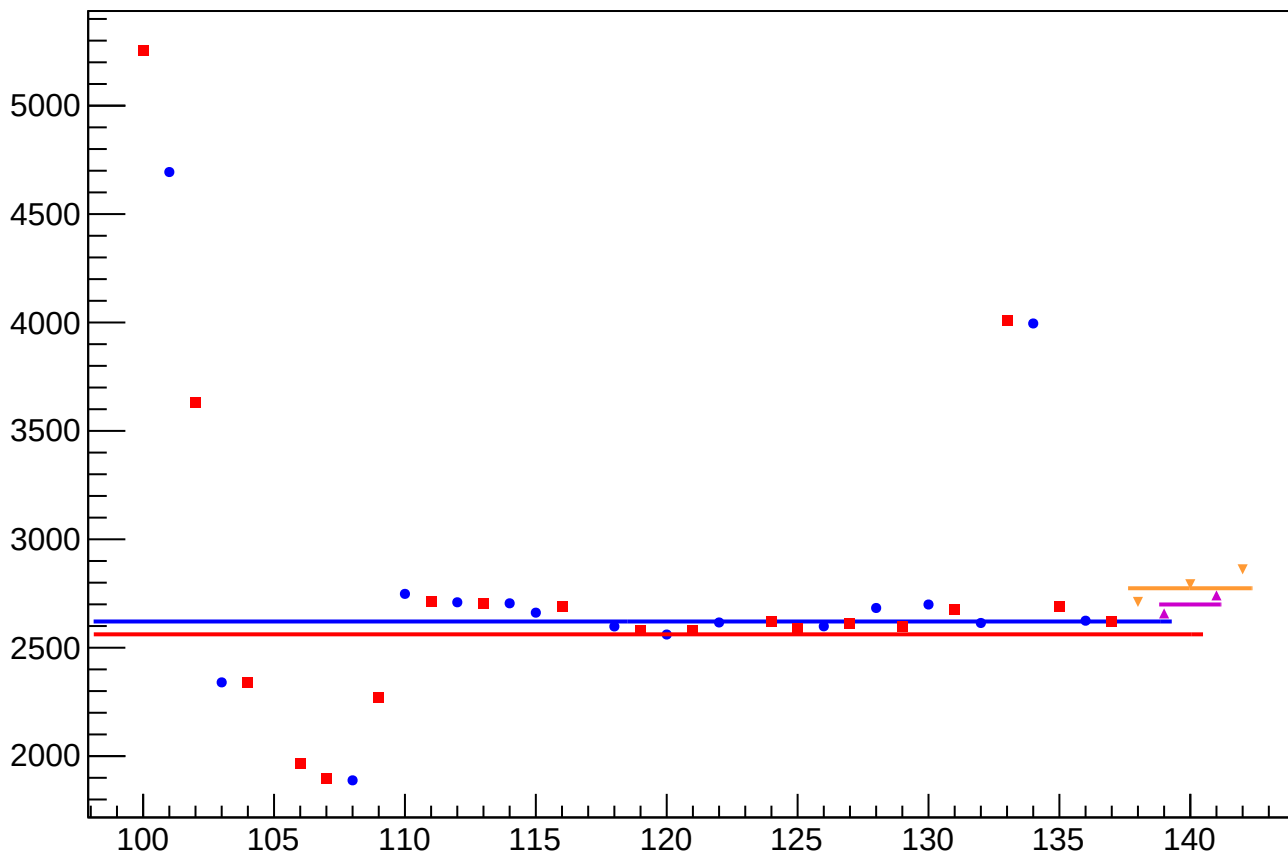
Right: 3399.911 $\pm$ 691.596 χ^2 /NDF: 29.1/34

In: 4555.856 $\pm$ 892.029 χ^2 /NDF:10.7/17

Out: 2168.882 $\pm$ 863.999 χ^2 /NDF:21.2/21

All: 3324.276 $\pm$ 620.612 χ^2 /NDF: 35.6/39

eigen_dit_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2620.963+/-0.700 χ^2/NDF : 485914.3/15

Left Out: 2774.250+/-1.366 χ^2/NDF :1737.2/2

Right Out: 2561.718+/-0.683 χ^2/NDF : 378258.9/18

Left In: 2699.437+/-1.451 χ^2/NDF :821.4/1

Left: 2739.102+/-0.994 χ^2/NDF : 3968.4/4

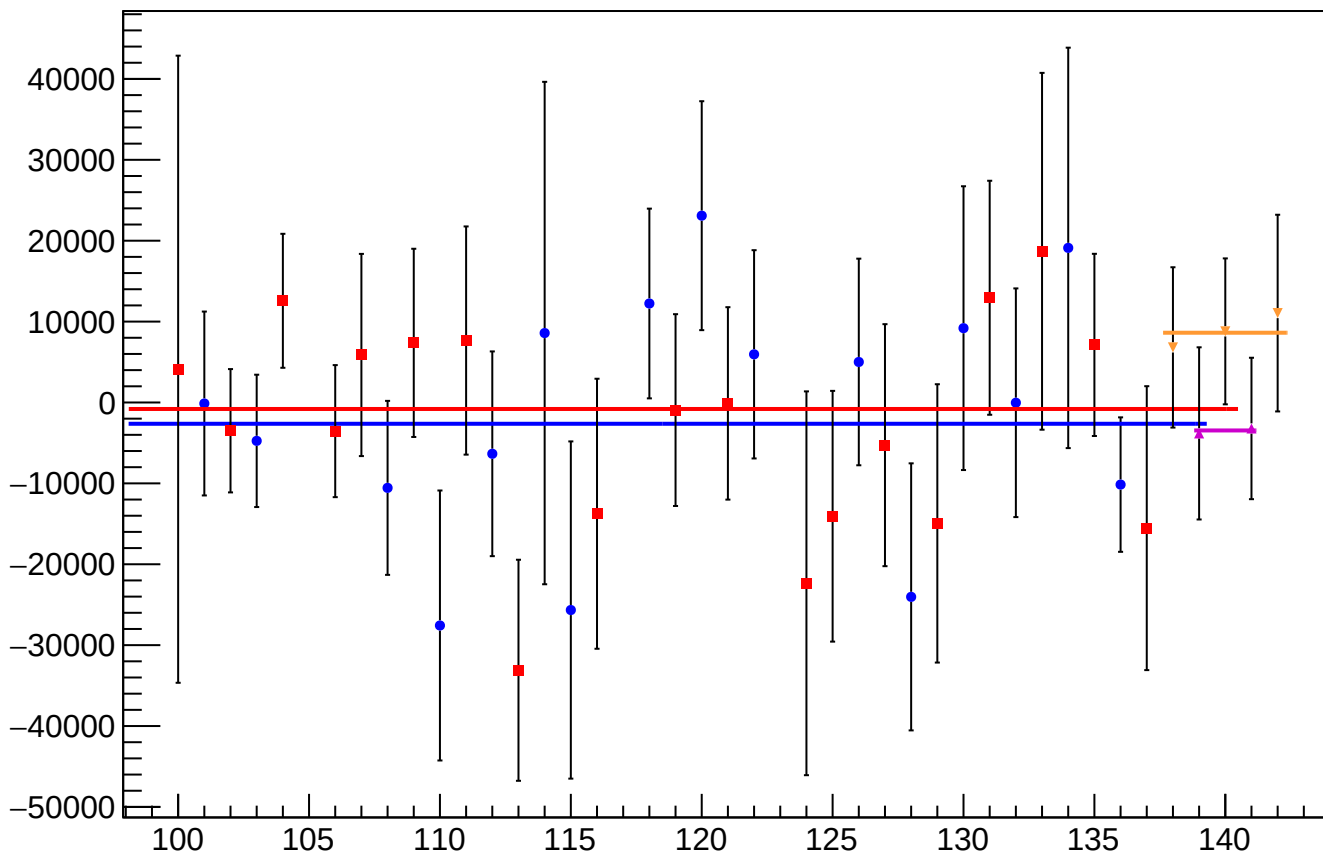
Right: 2590.582+/-0.489 χ^2/NDF : 867842.2/34

In: 2635.796+/-0.631 χ^2/NDF :489108.4/17

Out: 2604.209+/-0.611 χ^2/NDF :399371.9/21

All: 2619.491+/-0.439 χ^2/NDF : 889774.8/39

asym_atr2_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -2631.887 $\pm$ 3211.501 χ^2 /NDF: 13.8/15

Left Out: 8623.466 $\pm$ 5848.510 χ^2 /NDF: 0.1/2

Right Out: -802.875 $\pm$ 2872.930 χ^2 /NDF: 15.4/18

Left In: -3457.856 $\pm$ 6755.391 χ^2 /NDF: 0.0/1

Left: 3447.608 $\pm$ 4421.651 χ^2 /NDF: 1.9/4

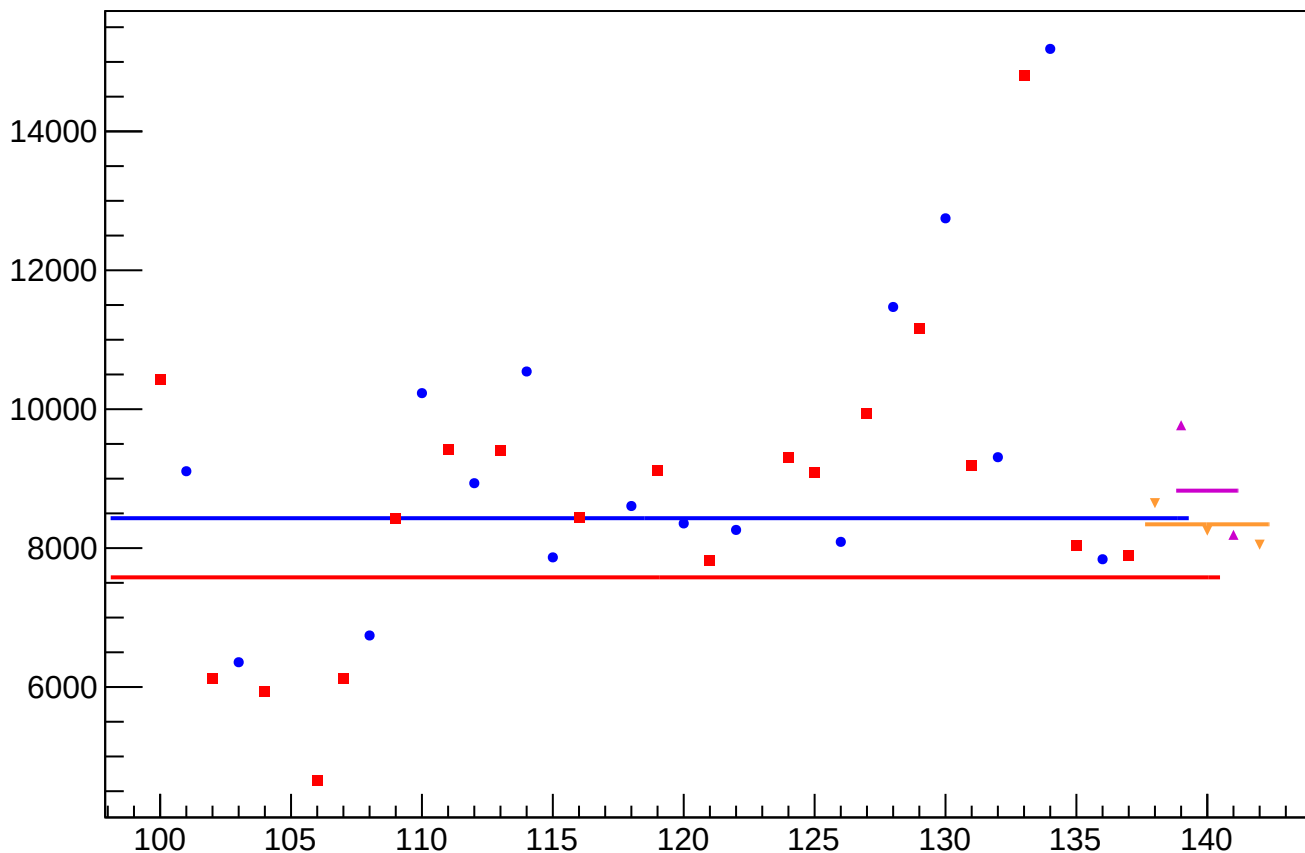
Right: -1615.919 $\pm$ 2141.198 χ^2 /NDF: 29.4/34

In: -2784.147 $\pm$ 2900.429 χ^2 /NDF: 13.8/17

Out: 1029.546 $\pm$ 2578.614 χ^2 /NDF: 17.6/21

All: -654.071 $\pm$ 1927.130 χ^2 /NDF: 32.3/39

asym_atr2_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 8430.758 $\pm$ 2.271 χ^2 /NDF: 580289.4/15

Left Out: 8342.634 $\pm$ 4.136 χ^2 /NDF:3251.7/2

Right Out: 7579.100 $\pm$ 2.031 χ^2 /NDF: 974123.2/18

Left In: 8827.226 $\pm$ 4.777 χ^2 /NDF:26236.7/1

Left: 8550.242 $\pm$ 3.127 χ^2 /NDF: 35370.8/4

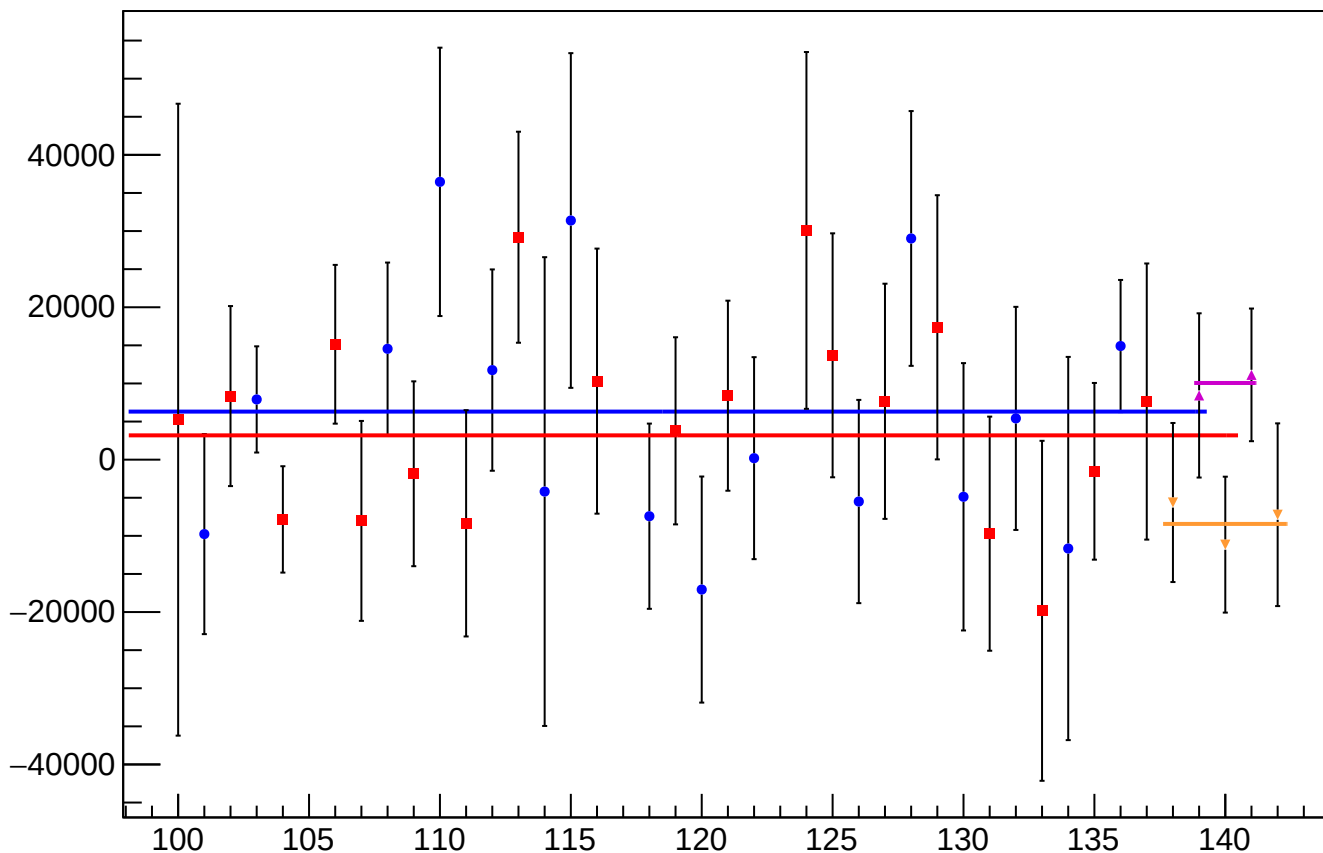
Right: 7957.685 $\pm$ 1.514 χ^2 /NDF: 1632540.7/34

In: 8503.844 $\pm$ 2.051 χ^2 /NDF:612145.0/17

Out: 7727.527 $\pm$ 1.823 χ^2 /NDF:1004836.0/21

All: 8070.244 $\pm$ 1.363 χ^2 /NDF: 1697007.4/39

asym_atr2_mean vs Slug, Sign Corrected



Right In: 6307.034 $\pm$ 3239.703 χ^2 /NDF: 15.1/15

Left Out: -8433.786 $\pm$ 5901.969 χ^2 /NDF: 0.2/2

Right Out: 3189.356 $\pm$ 3068.645 χ^2 /NDF: 13.9/18

Left In: 10062.859 $\pm$ 6771.532 χ^2 /NDF: 0.0/1

Left: -448.623 $\pm$ 4449.205 χ^2 /NDF: 4.5/4

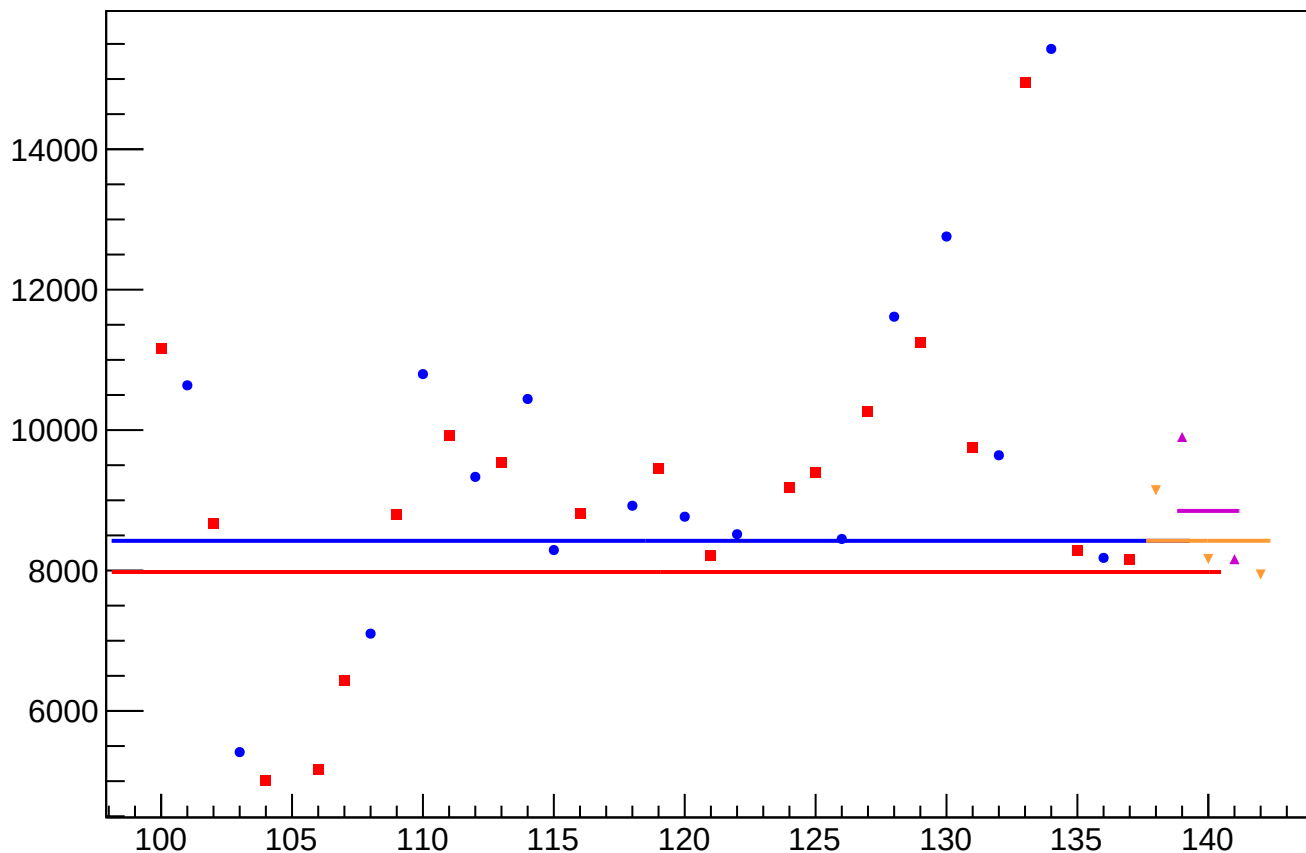
Right: 4663.718 $\pm$ 2227.879 χ^2 /NDF: 29.5/34

In: 7006.597 $\pm$ 2922.455 χ^2 /NDF: 15.4/17

Out: 715.893 $\pm$ 2722.625 χ^2 /NDF: 17.1/21

All: 3638.840 $\pm$ 1992.088 χ^2 /NDF: 35.0/39

asym_atr2_rms vs Slug, Sign Corrected



Right In: 8422.717 $\pm$ 2.291 χ^2 /NDF: 881833.9/15

Left Out: 8423.720 $\pm$ 4.173 χ^2 /NDF:14395.1/2

Right Out: 7978.997 $\pm$ 2.170 χ^2 /NDF: 1016019.0/18

Left In: 8848.889 $\pm$ 4.788 χ^2 /NDF:31566.0/1

Left: 8607.269 $\pm$ 3.146 χ^2 /NDF: 50441.8/4

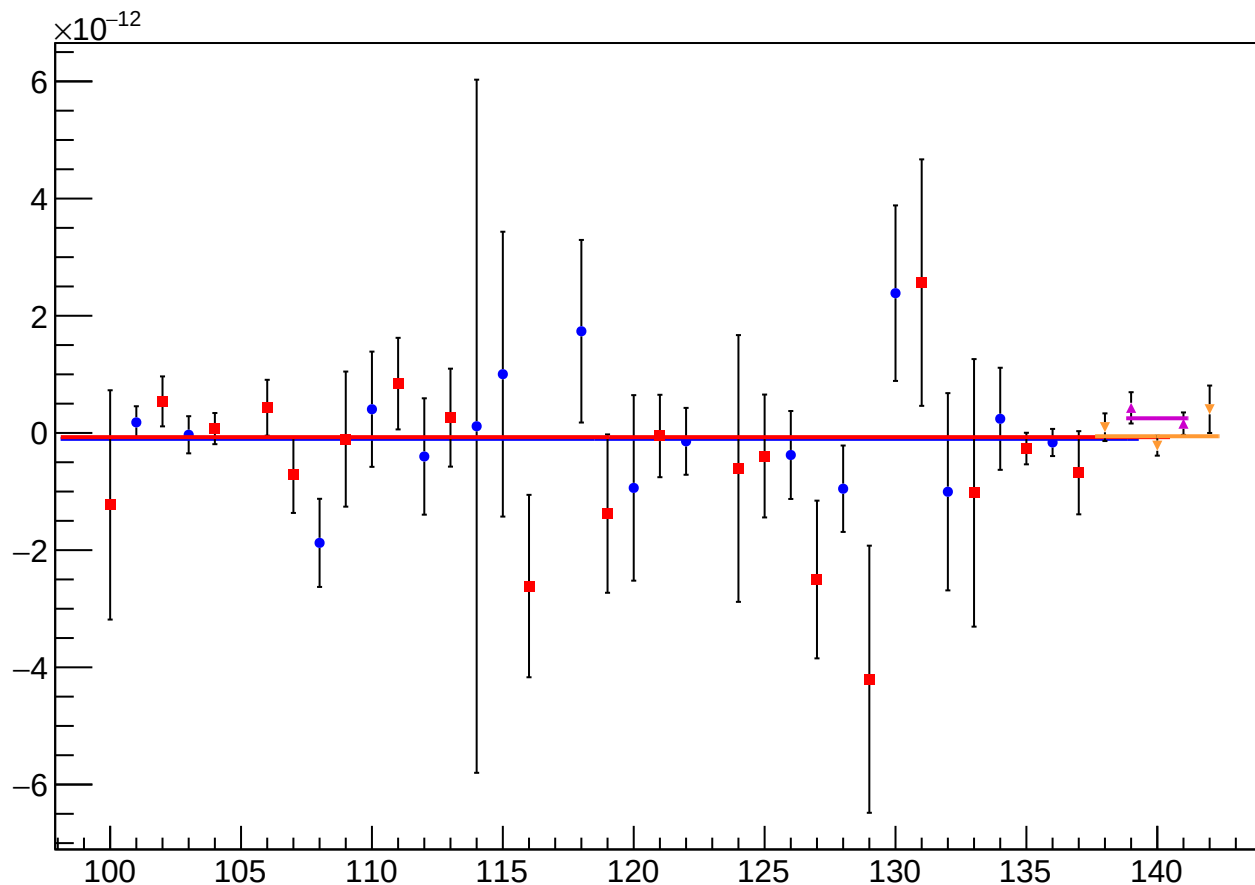
Right: 8188.830 $\pm$ 1.575 χ^2 /NDF: 1917628.8/34

In: 8502.097 $\pm$ 2.066 χ^2 /NDF:919846.2/17

Out: 8073.634 $\pm$ 1.925 χ^2 /NDF:1039353.4/21

All: 8272.714 $\pm$ 1.409 χ^2 /NDF: 1982214.4/39

asym_atr2_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 13.6/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 2.6/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 19.6/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.7/1

Left: 0.000 ± 0.000 χ^2/NDF : 5.6/4

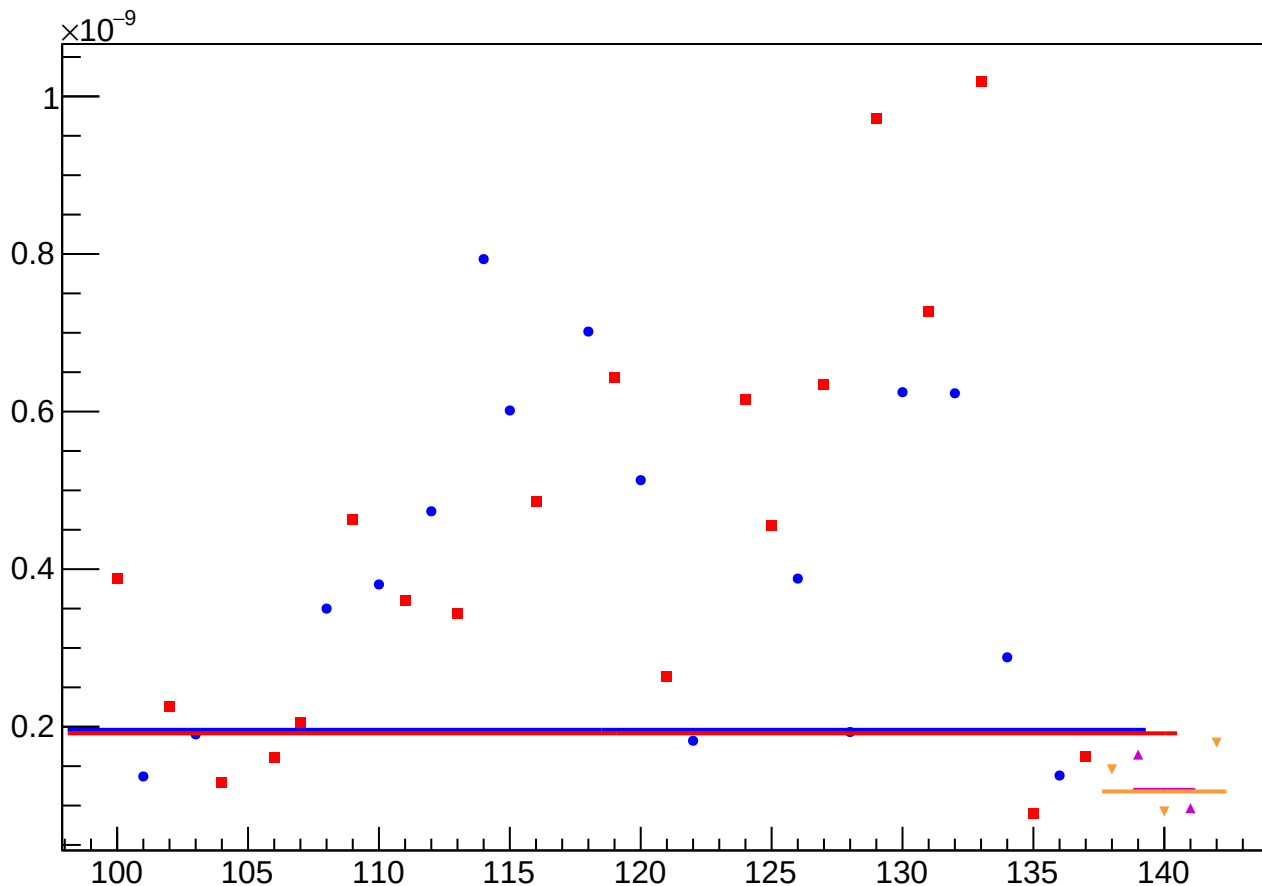
Right: -0.000 ± 0.000 χ^2/NDF : 33.3/34

In: 0.000 ± 0.000 χ^2/NDF : 17.2/17

Out: -0.000 ± 0.000 χ^2/NDF : 22.2/21

All: -0.000 ± 0.000 χ^2/NDF : 40.1/39

asym_atr2_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1342263.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 120052.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2066454.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 85334.4/1

Left: 0.000+/-0.000 χ^2/NDF : 205578.9/4

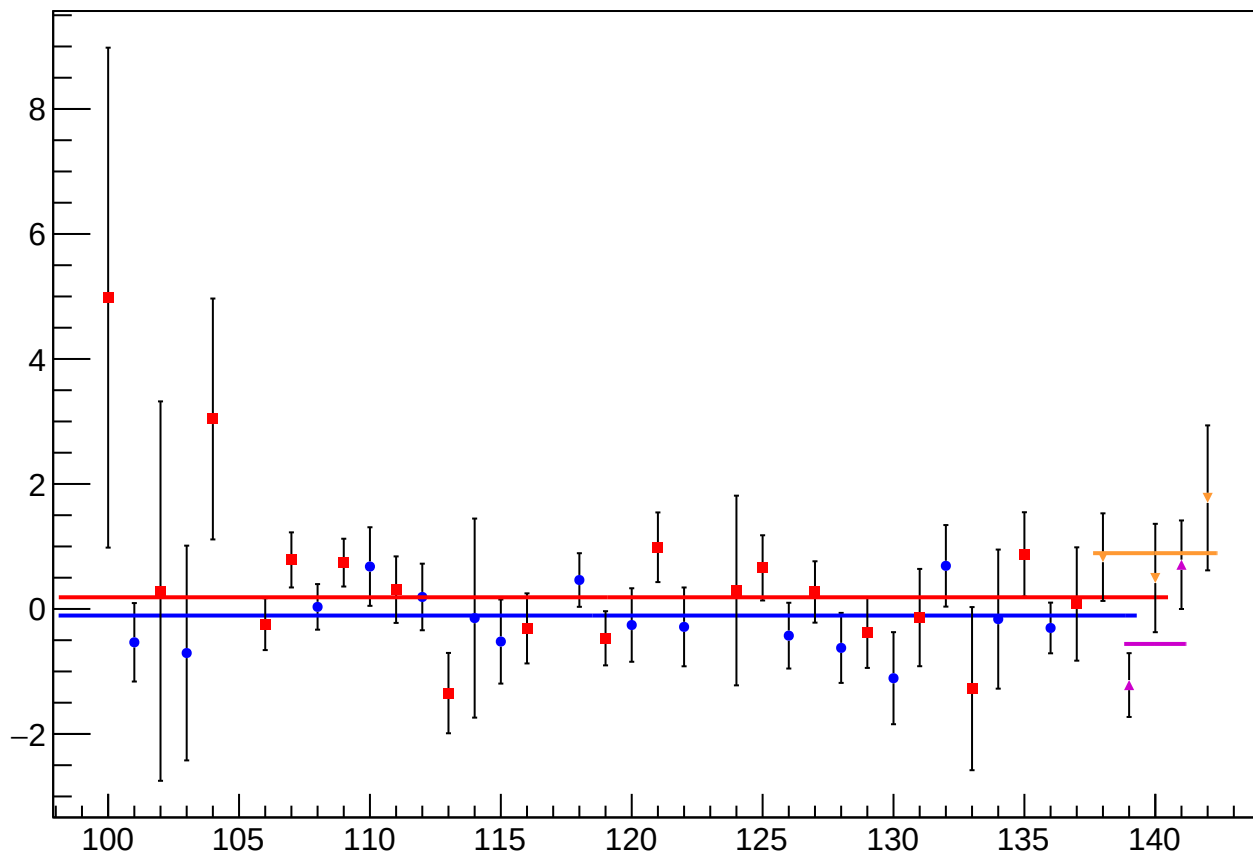
Right: 0.000+/-0.000 χ^2/NDF : 3409753.0/34

In: 0.000+/-0.000 χ^2/NDF : 1701908.3/17

Out: 0.000+/-0.000 χ^2/NDF : 2485251.0/21

All: 0.000+/-0.000 χ^2/NDF : 4200128.4/39

asym_atr2_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.105 ± 0.145 χ^2/NDF : 9.7/15

Left Out: 0.893 ± 0.493 χ^2/NDF : 0.8/2

Right Out: 0.187 ± 0.137 χ^2/NDF : 23.9/18

Left In: -0.560 ± 0.414 χ^2/NDF : 4.9/1

Left: 0.041 ± 0.317 χ^2/NDF : 10.7/4

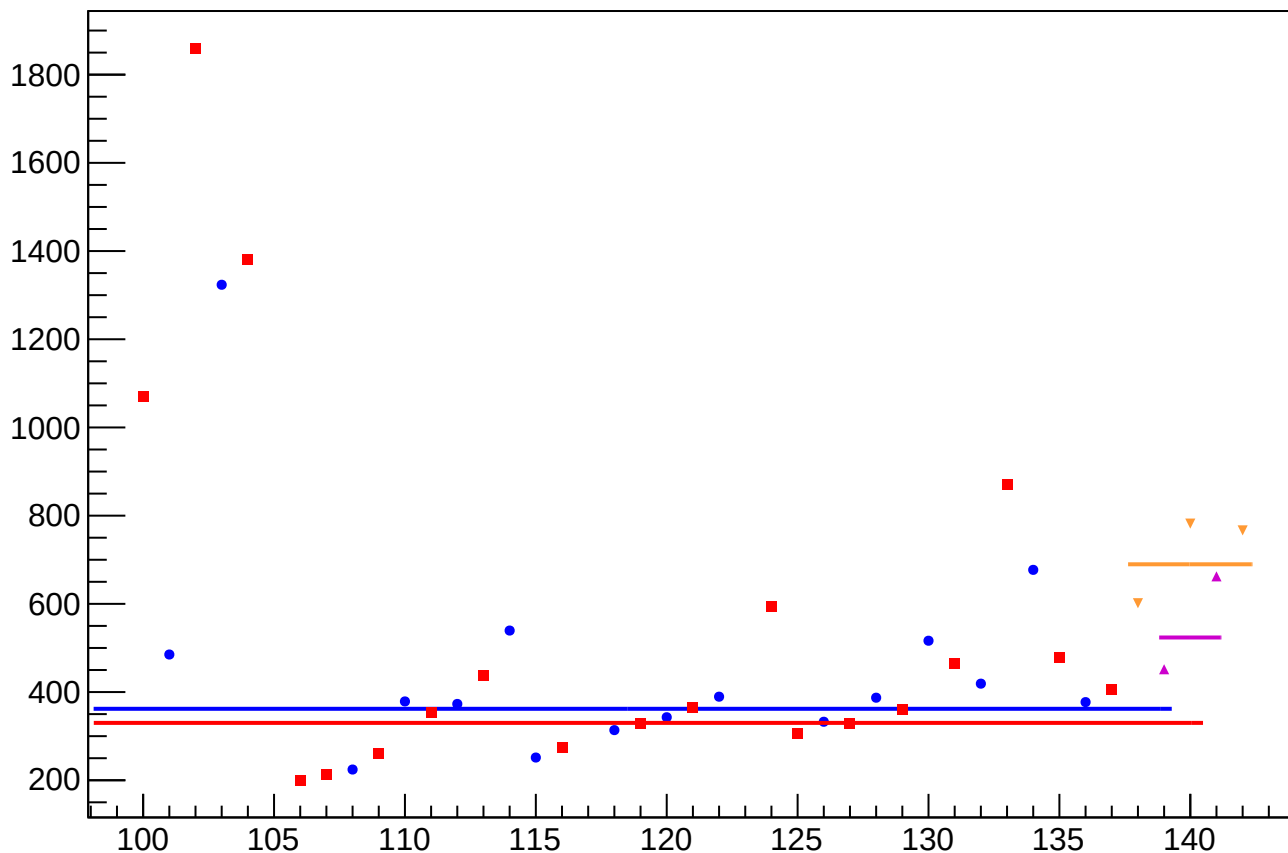
Right: 0.048 ± 0.100 χ^2/NDF : 35.7/34

In: -0.155 ± 0.137 χ^2/NDF : 15.6/17

Out: 0.238 ± 0.132 χ^2/NDF : 26.6/21

All: 0.048 ± 0.095 χ^2/NDF : 46.4/39

asym_atr2_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 362.037 $\pm$ 0.102 χ^2 /NDF: 1377330.2/15

Left Out: 689.721 $\pm$ 0.349 χ^2 /NDF: 63168.0/2

Right Out: 330.084 $\pm$ 0.097 χ^2 /NDF: 2246513.0/18

Left In: 523.728 $\pm$ 0.293 χ^2 /NDF: 116379.8/1

Left: 592.363 $\pm$ 0.224 χ^2 /NDF: 312396.4/4

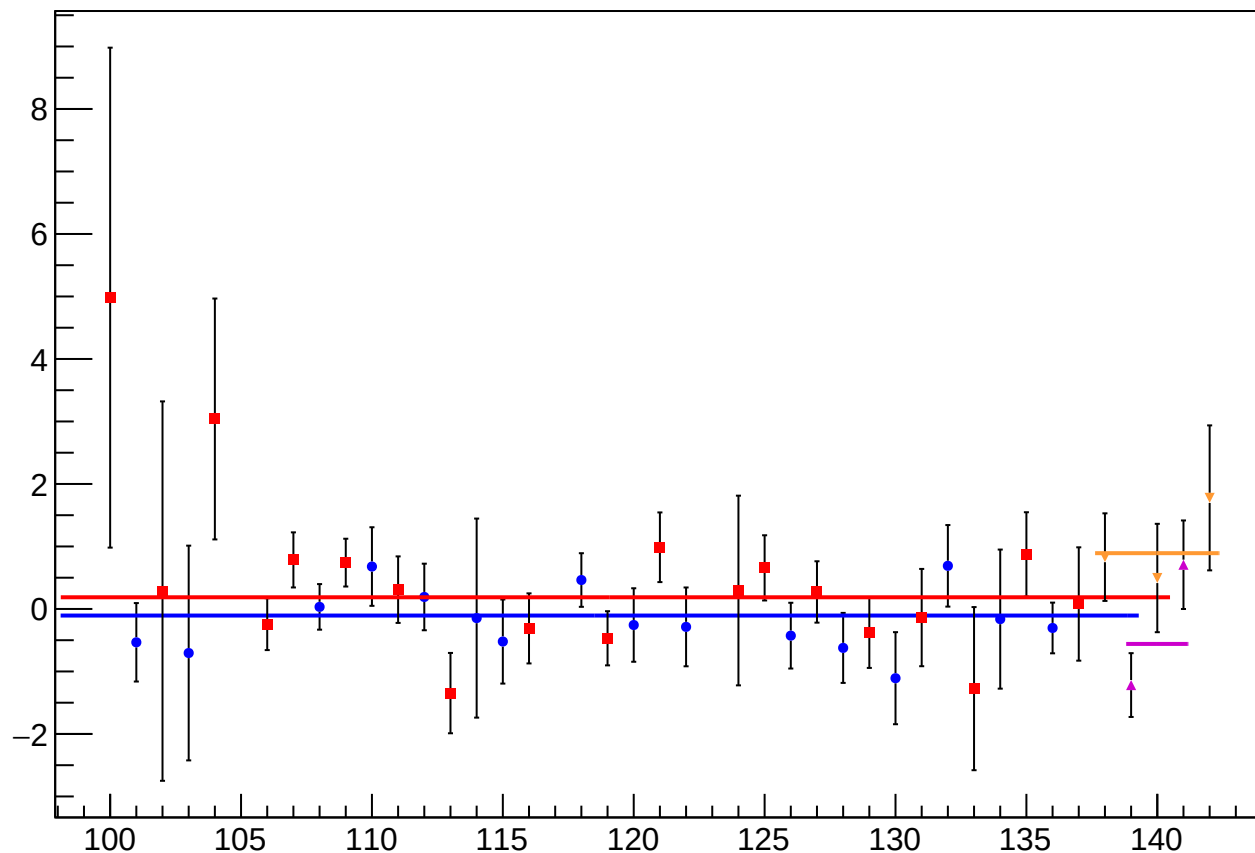
Right: 345.237 $\pm$ 0.070 χ^2 /NDF: 3675129.8/34

In: 379.625 $\pm$ 0.097 χ^2 /NDF: 1765402.9/17

Out: 355.985 $\pm$ 0.094 χ^2 /NDF: 3296328.1/21

All: 367.434 $\pm$ 0.067 χ^2 /NDF: 5092624.4/39

asym_atr2_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.105 ± 0.145 χ^2/NDF : 9.7/15

Left Out: 0.893 ± 0.493 χ^2/NDF : 0.8/2

Right Out: 0.187 ± 0.137 χ^2/NDF : 23.9/18

Left In: -0.560 ± 0.414 χ^2/NDF : 4.9/1

Left: 0.041 ± 0.317 χ^2/NDF : 10.7/4

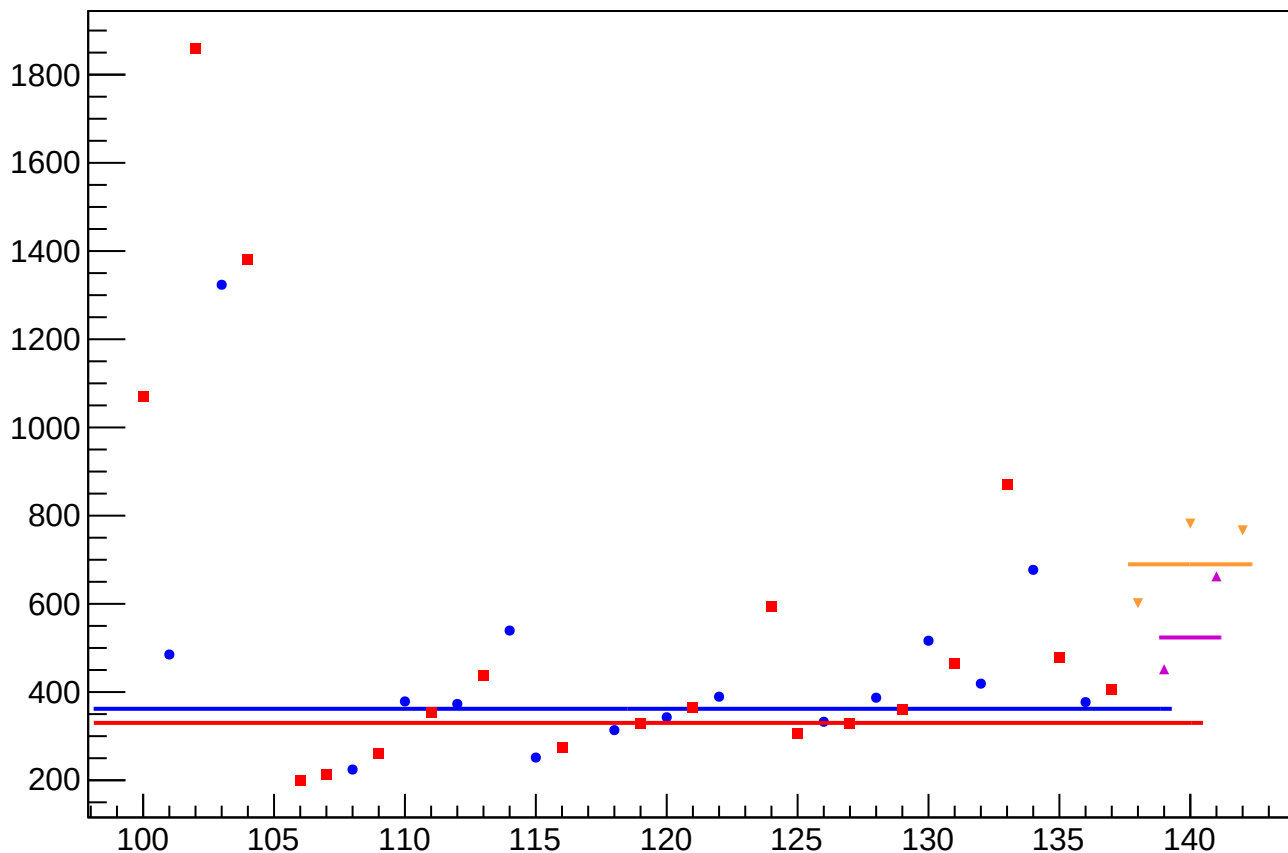
Right: 0.048 ± 0.100 χ^2/NDF : 35.7/34

In: -0.155 ± 0.137 χ^2/NDF : 15.6/17

Out: 0.238 ± 0.132 χ^2/NDF : 26.6/21

All: 0.048 ± 0.095 χ^2/NDF : 46.4/39

asym_atr2_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 362.037 ± 0.102 χ^2/NDF : 1377330.2/15

Left Out: 689.721 ± 0.349 χ^2/NDF : 63168.0/2

Right Out: 330.084 ± 0.097 χ^2/NDF : 2246513.0/18

Left In: 523.728 ± 0.293 χ^2/NDF : 116379.8/1

Left: 592.363 ± 0.224 χ^2/NDF : 312396.4/4

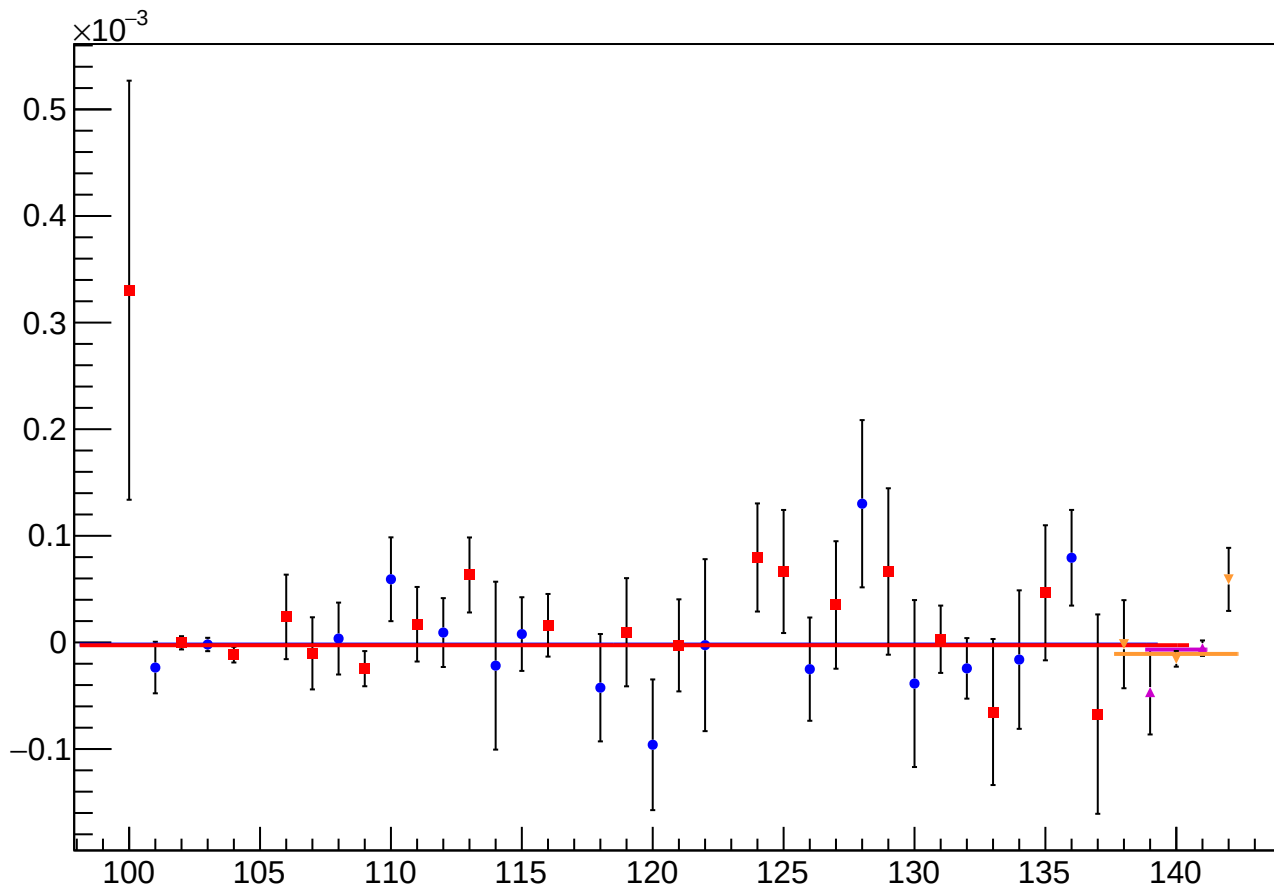
Right: 345.237 ± 0.070 χ^2/NDF : 3675129.8/34

In: 379.625 ± 0.097 χ^2/NDF : 1765402.9/17

Out: 355.985 ± 0.094 χ^2/NDF : 3296328.1/21

All: 367.434 ± 0.067 χ^2/NDF : 5092624.4/39

asym_atr2_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 13.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 6.0/2

Right Out: -0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 1.0/1

Left: -0.000+/-0.000 χ^2/NDF : 7.2/4

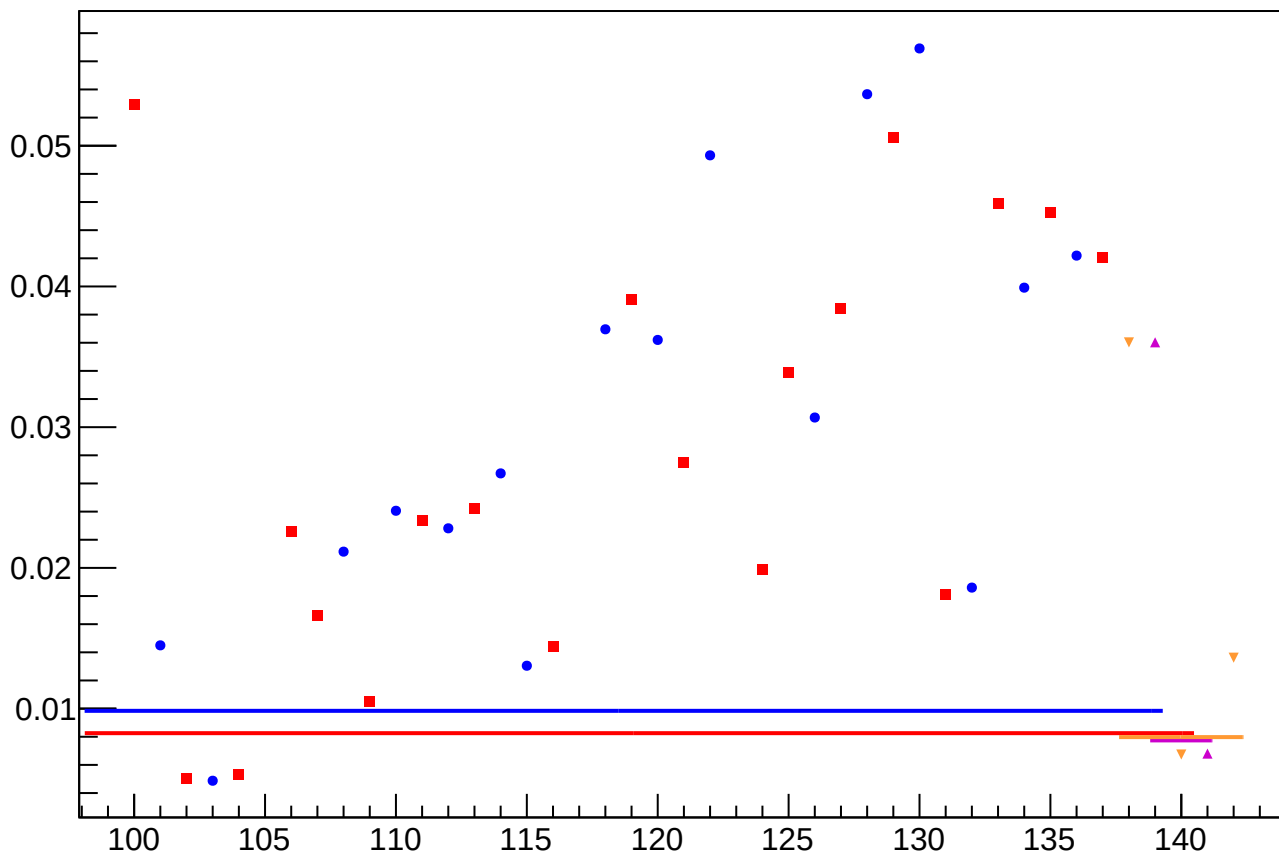
Right: -0.000+/-0.000 χ^2/NDF : 32.0/34

In: -0.000+/-0.000 χ^2/NDF : 15.1/17

Out: -0.000+/-0.000 χ^2/NDF : 25.2/21

All: -0.000+/-0.000 χ^2/NDF : 40.3/39

asym_atr2_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000

χ^2/NDF : 7052383.3/15

Left Out: 0.008+/-0.000

χ^2/NDF : 1051171.9/2

Right Out: 0.008+/-0.000

χ^2/NDF : 6740964.7/18

Left In: 0.008+/-0.000

χ^2/NDF : 1045615.1/1

Left: 0.008+/-0.000

χ^2/NDF : 2097878.0/4

Right: 0.009+/-0.000

χ^2/NDF : 13900238.9/34

In: 0.009+/-0.000

χ^2/NDF : 8208358.0/17

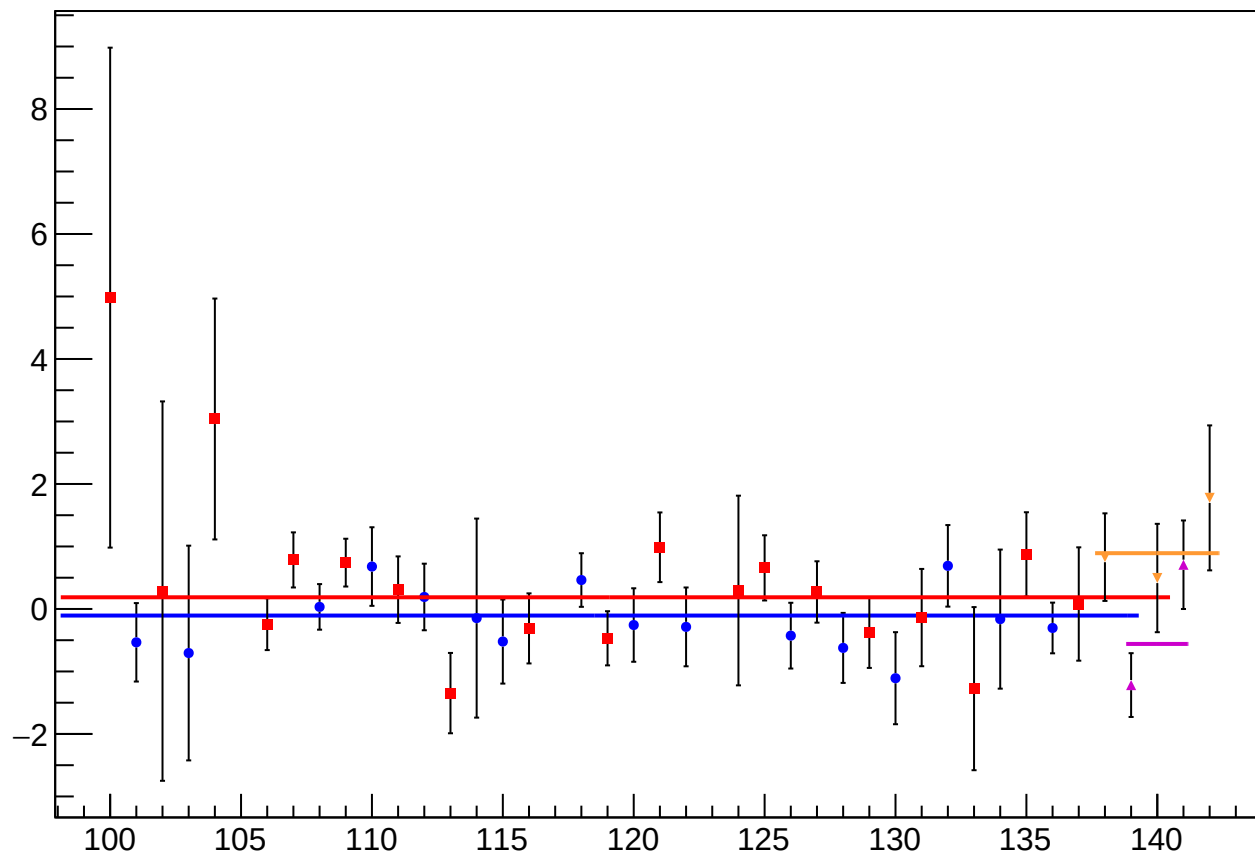
Out: 0.008+/-0.000

χ^2/NDF : 7794476.0/21

All: 0.009+/-0.000

χ^2/NDF : 16053200.6/39

asym_atr2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.105 ± 0.145 χ^2/NDF : 9.7/15

Left Out: 0.893 ± 0.493 χ^2/NDF : 0.8/2

Right Out: 0.187 ± 0.137 χ^2/NDF : 23.9/18

Left In: -0.560 ± 0.414 χ^2/NDF : 4.9/1

Left: 0.041 ± 0.317 χ^2/NDF : 10.7/4

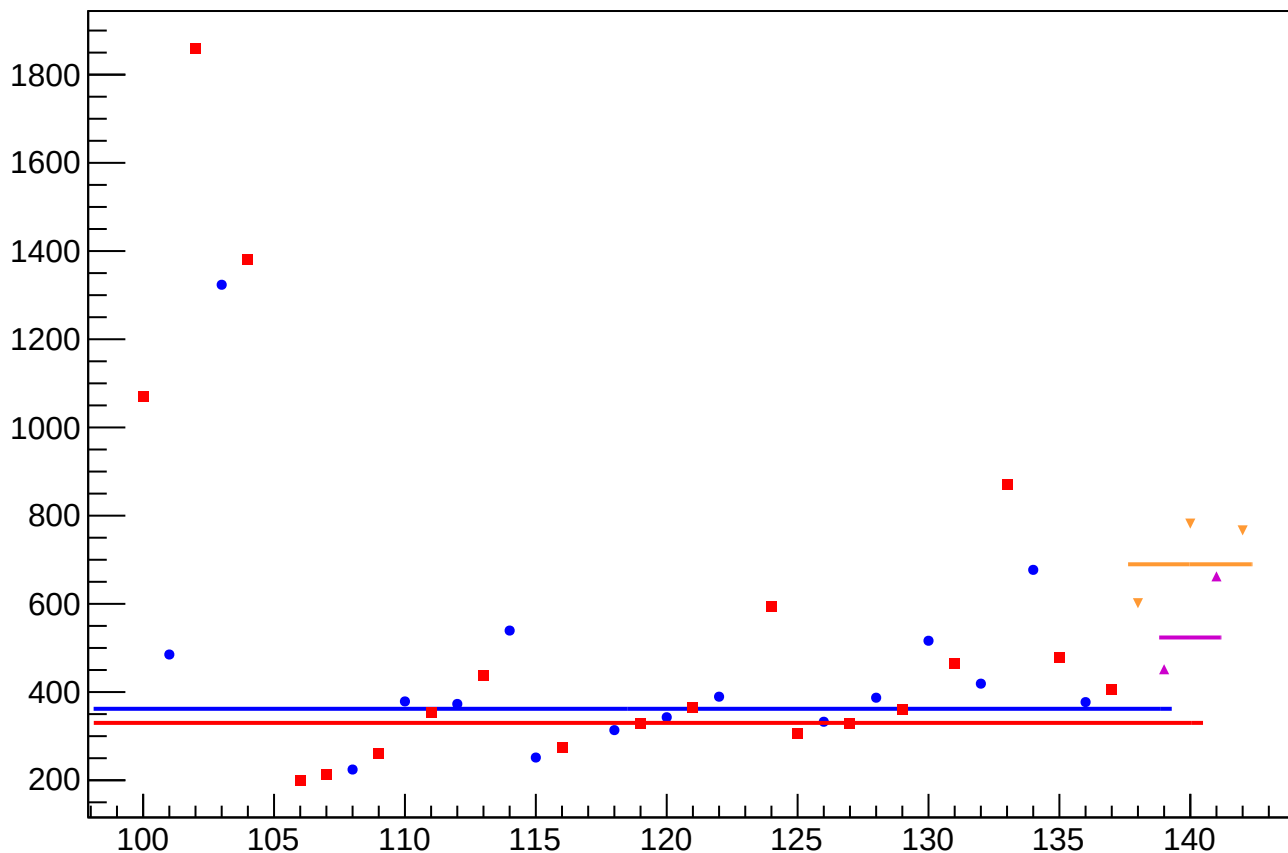
Right: 0.048 ± 0.100 χ^2/NDF : 35.7/34

In: -0.155 ± 0.137 χ^2/NDF : 15.6/17

Out: 0.238 ± 0.132 χ^2/NDF : 26.6/21

All: 0.048 ± 0.095 χ^2/NDF : 46.4/39

asym_atr2_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 362.034+/-0.102 χ^2/NDF : 1377333.3/15

Left Out: 689.728+/-0.349 χ^2/NDF : 63159.3/2

Right Out: 330.082+/-0.097 χ^2/NDF : 2246503.8/18

Left In: 523.734+/-0.293 χ^2/NDF : 116368.1/1

Left: 592.369+/-0.224 χ^2/NDF : 312374.0/4

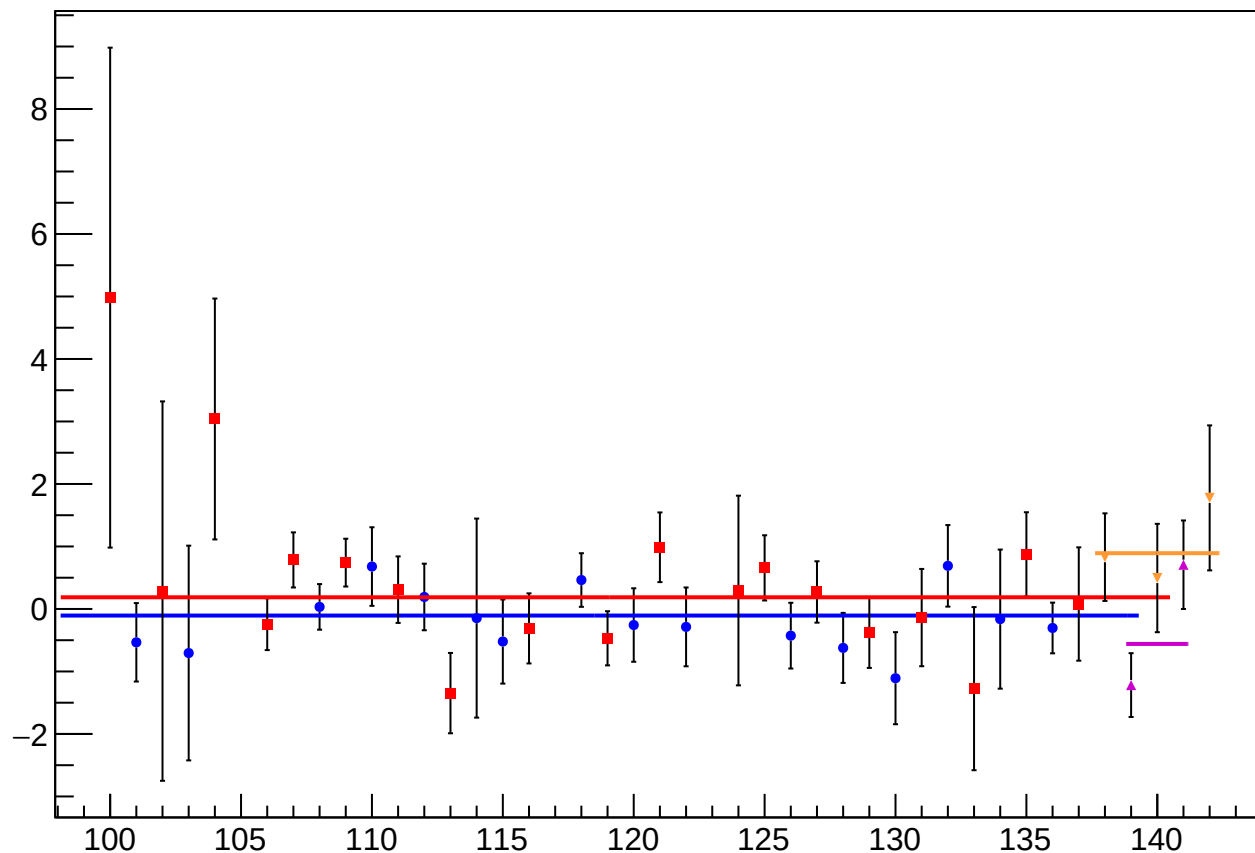
Right: 345.235+/-0.070 χ^2/NDF : 3675120.0/34

In: 379.622+/-0.097 χ^2/NDF : 1765419.5/17

Out: 355.983+/-0.094 χ^2/NDF : 3296339.1/21

All: 367.432+/-0.067 χ^2/NDF : 5092649.9/39

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.105 ± 0.145 χ^2/NDF : 9.7/15

Left Out: 0.893 ± 0.493 χ^2/NDF : 0.8/2

Right Out: 0.187 ± 0.137 χ^2/NDF : 23.9/18

Left In: -0.560 ± 0.414 χ^2/NDF : 4.9/1

Left: 0.041 ± 0.317 χ^2/NDF : 10.7/4

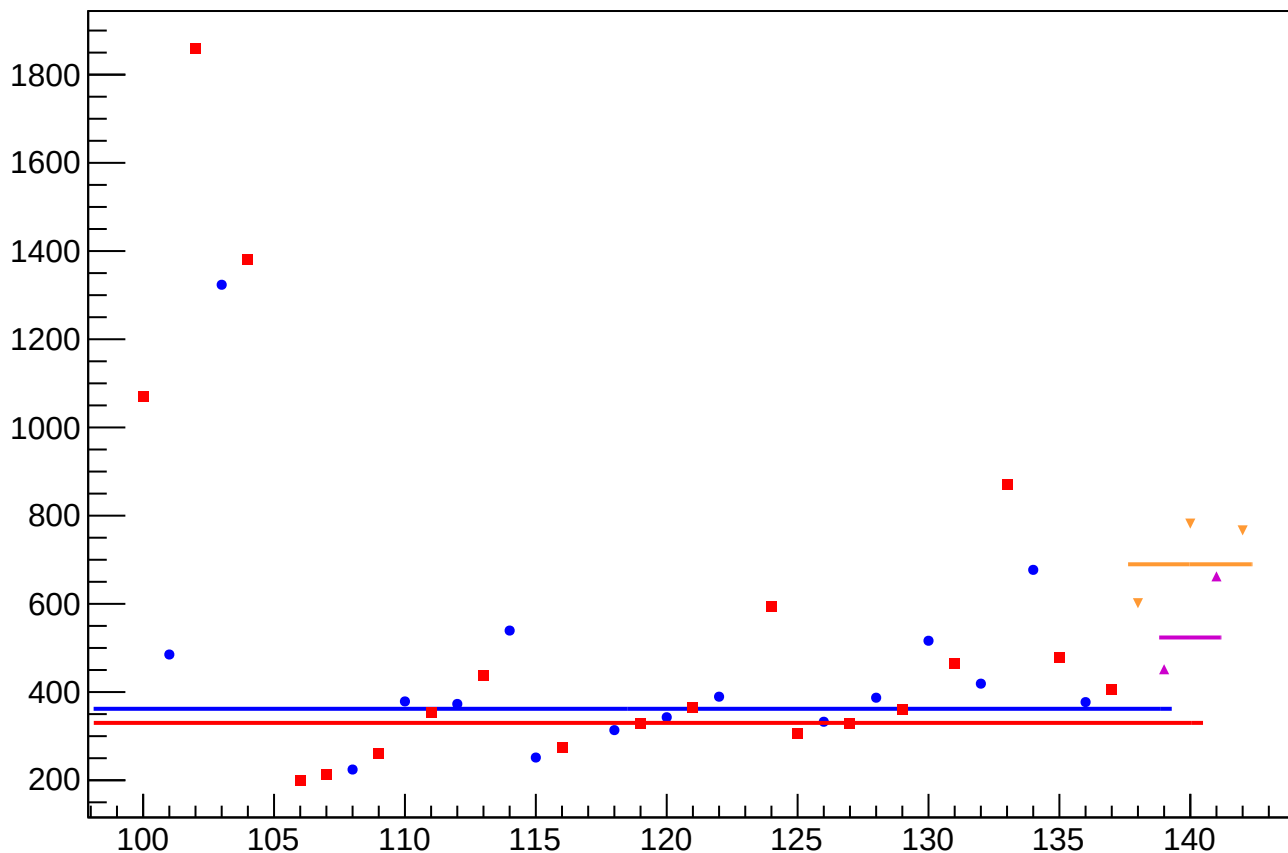
Right: 0.048 ± 0.100 χ^2/NDF : 35.7/34

In: -0.155 ± 0.137 χ^2/NDF : 15.6/17

Out: 0.238 ± 0.132 χ^2/NDF : 26.6/21

All: 0.048 ± 0.095 χ^2/NDF : 46.4/39

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 362.034 ± 0.102 $\chi^2/\text{NDF}: 1377333.3/15$

Left Out: 689.728 ± 0.349 $\chi^2/\text{NDF}: 63159.3/2$

Right Out: 330.082 ± 0.097 $\chi^2/\text{NDF}: 2246503.8/18$

Left In: 523.734 ± 0.293 $\chi^2/\text{NDF}: 116368.1/1$

Left: 592.369 ± 0.224 $\chi^2/\text{NDF}: 312374.0/4$

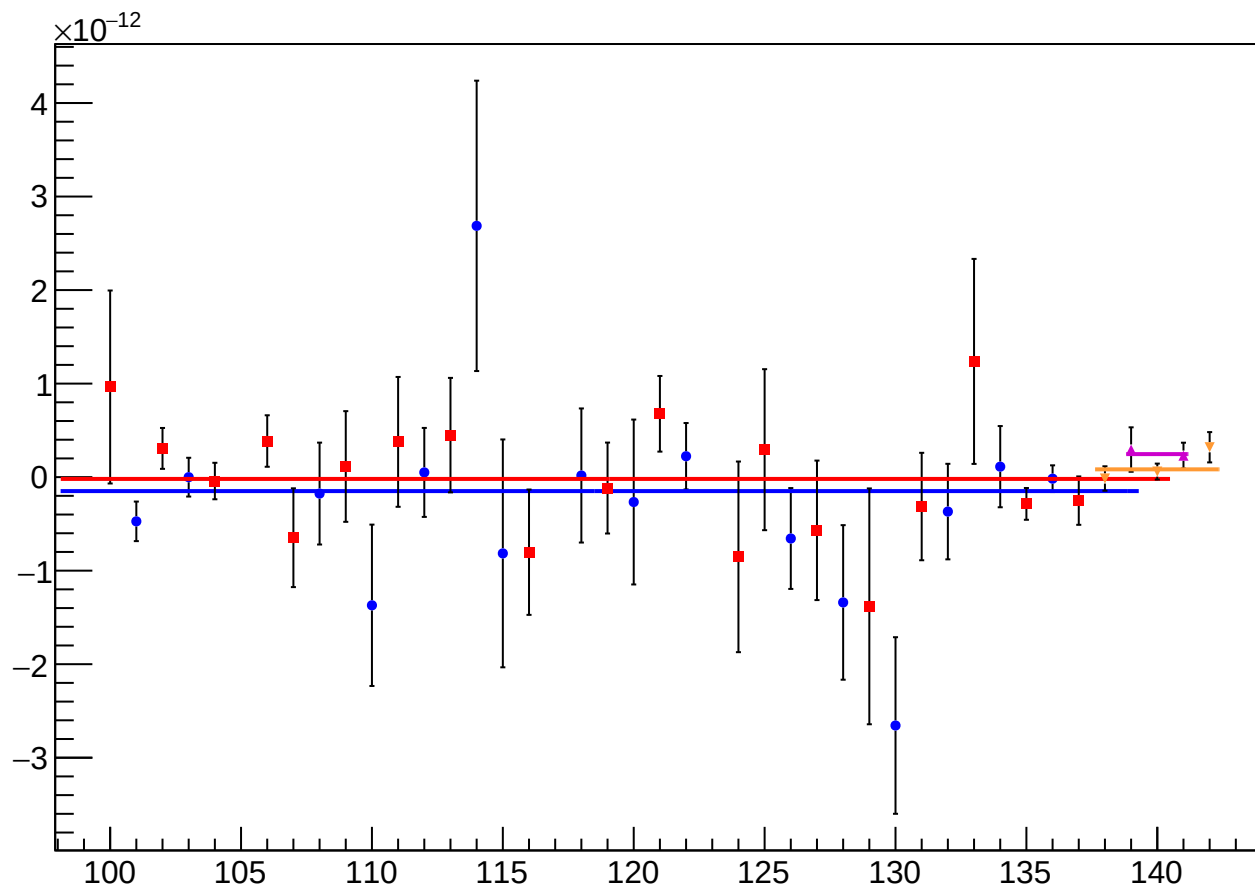
Right: 345.235 ± 0.070 $\chi^2/\text{NDF}: 3675120.0/34$

In: 379.622 ± 0.097 $\chi^2/\text{NDF}: 1765419.5/17$

Out: 355.983 ± 0.094 $\chi^2/\text{NDF}: 3296339.1/21$

All: 367.432 ± 0.067 $\chi^2/\text{NDF}: 5092649.9/39$

asym_atr2_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 21.3/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 2.8/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 19.4/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.1/1

Left: 0.000 ± 0.000 χ^2/NDF : 4.3/4

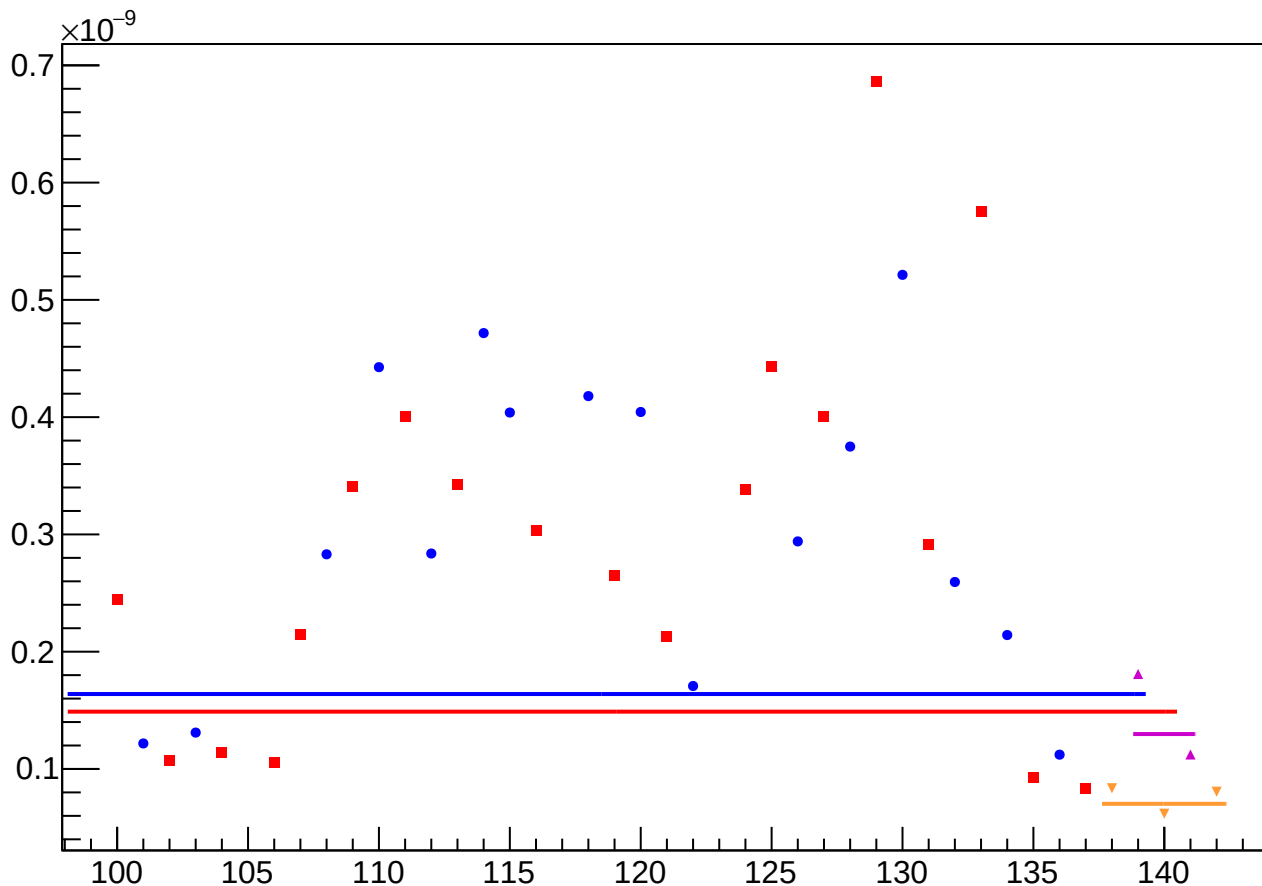
Right: -0.000 ± 0.000 χ^2/NDF : 41.9/34

In: -0.000 ± 0.000 χ^2/NDF : 28.4/17

Out: 0.000 ± 0.000 χ^2/NDF : 23.1/21

All: 0.000 ± 0.000 χ^2/NDF : 52.0/39

asym_atr2_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2011207.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 48432.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2846265.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 124534.9/1

Left: 0.000+/-0.000 χ^2/NDF : 553606.8/4

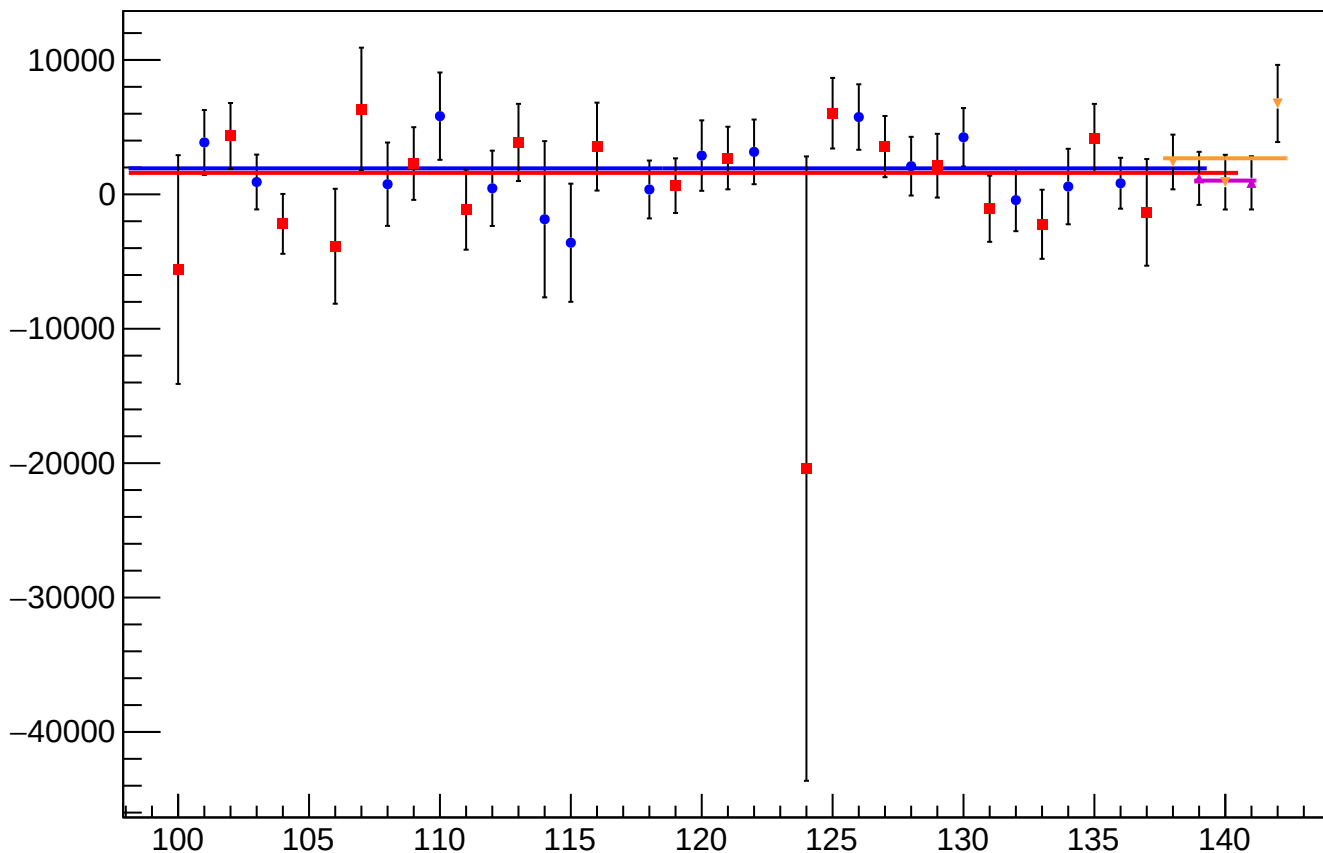
Right: 0.000+/-0.000 χ^2/NDF : 4888401.8/34

In: 0.000+/-0.000 χ^2/NDF : 2241829.5/17

Out: 0.000+/-0.000 χ^2/NDF : 3993554.5/21

All: 0.000+/-0.000 χ^2/NDF : 6944155.4/39

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1934.755+/-627.874 χ^2/NDF : 10.9/15

Left Out: 2683.704+/-1286.452 χ^2/NDF : 2.8/2

Right Out: 1597.959+/-642.207 χ^2/NDF : 19.4/18

Left In: 1023.008+/-1397.568 χ^2/NDF : 0.0/1

Left: 1921.989+/-946.507 χ^2/NDF : 3.6/4

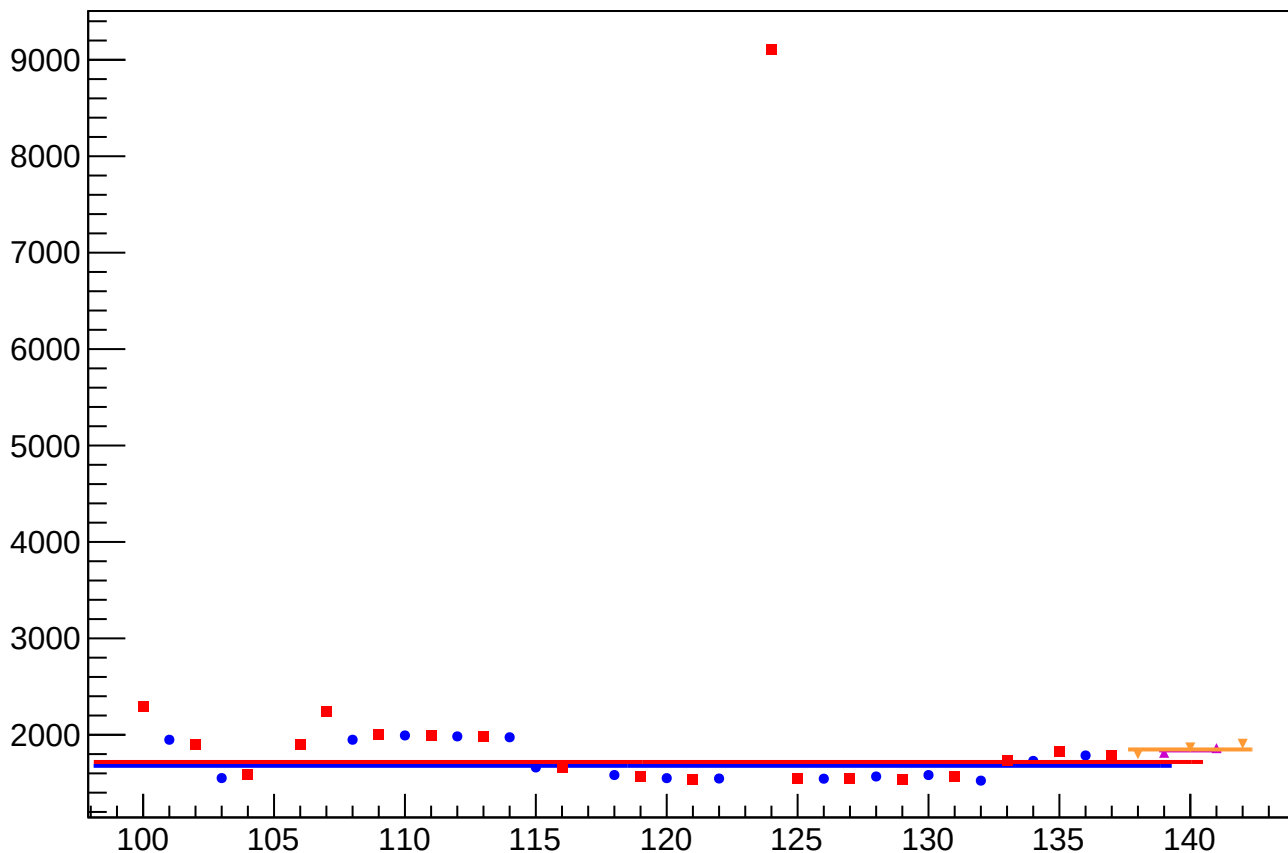
Right: 1770.157+/-448.956 χ^2/NDF : 30.4/34

In: 1781.636+/-572.730 χ^2/NDF : 11.3/17

Out: 1814.558+/-574.589 χ^2/NDF : 22.8/21

All: 1798.044+/-405.637 χ^2/NDF : 34.0/39

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1678.543+/-0.444 χ^2/NDF : 141482.6/15

Left Out: 1848.070+/-0.910 χ^2/NDF : 2239.8/2

Right Out: 1718.312+/-0.452 χ^2/NDF : 383179.3/18

Left In: 1837.971+/-0.988 χ^2/NDF : 587.2/1

Left: 1843.437+/-0.669 χ^2/NDF : 2883.6/4

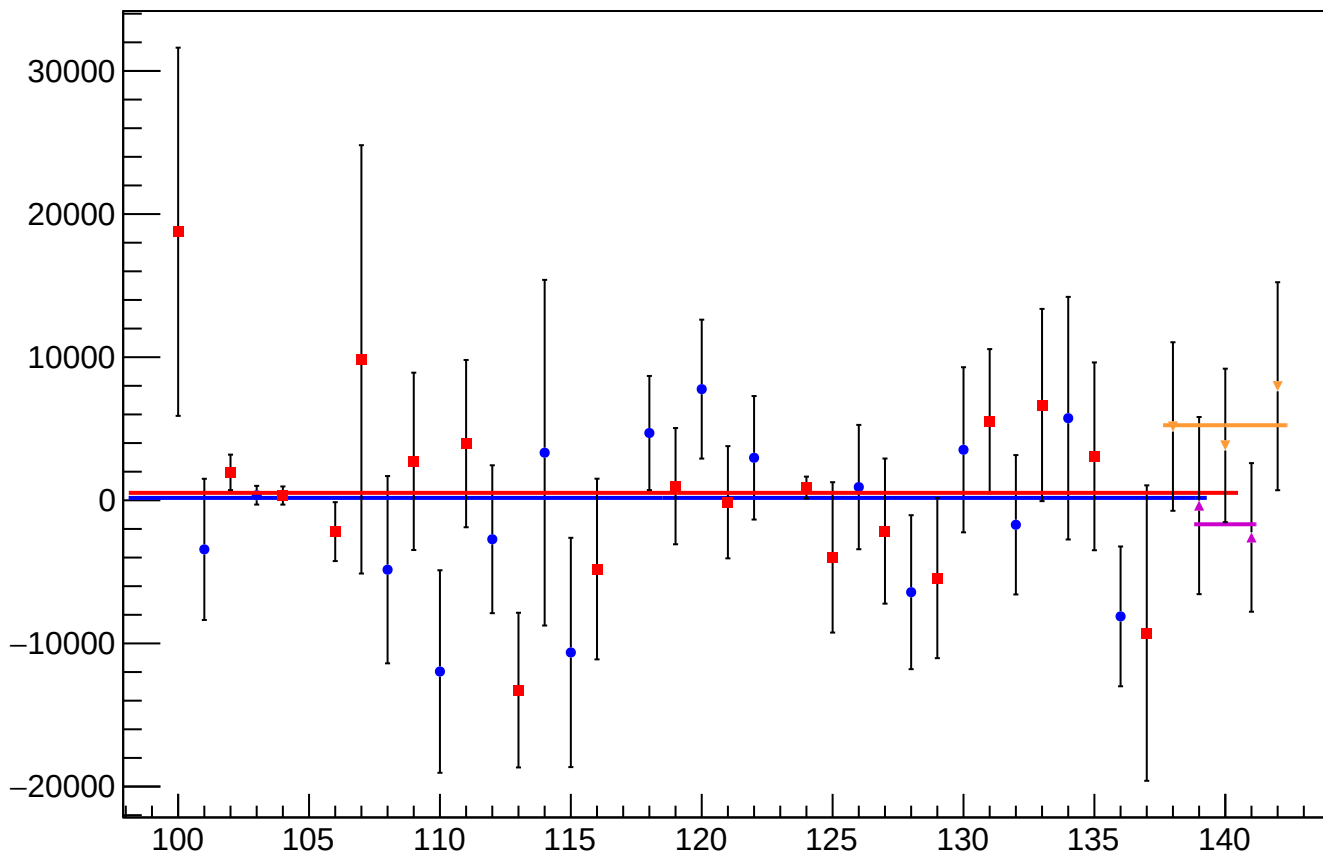
Right: 1698.073+/-0.317 χ^2/NDF : 528602.3/34

In: 1705.317+/-0.405 χ^2/NDF : 163725.3/17

Out: 1744.002+/-0.405 χ^2/NDF : 401738.0/21

All: 1724.670+/-0.286 χ^2/NDF : 570028.2/39

asym_atl_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: 168.283 $\pm$ 591.607 χ^2 /NDF: 15.8/15

Left Out: 5245.288 $\pm$ 3479.718 χ^2 /NDF:0.2/2

Right Out: 521.080 $\pm$ 424.783 χ^2 /NDF: 18.5/18

Left In: -1674.422 $\pm$ 3977.504 χ^2 /NDF:0.1/1

Left: 2245.289 $\pm$ 2618.950 χ^2 /NDF: 2.0/4

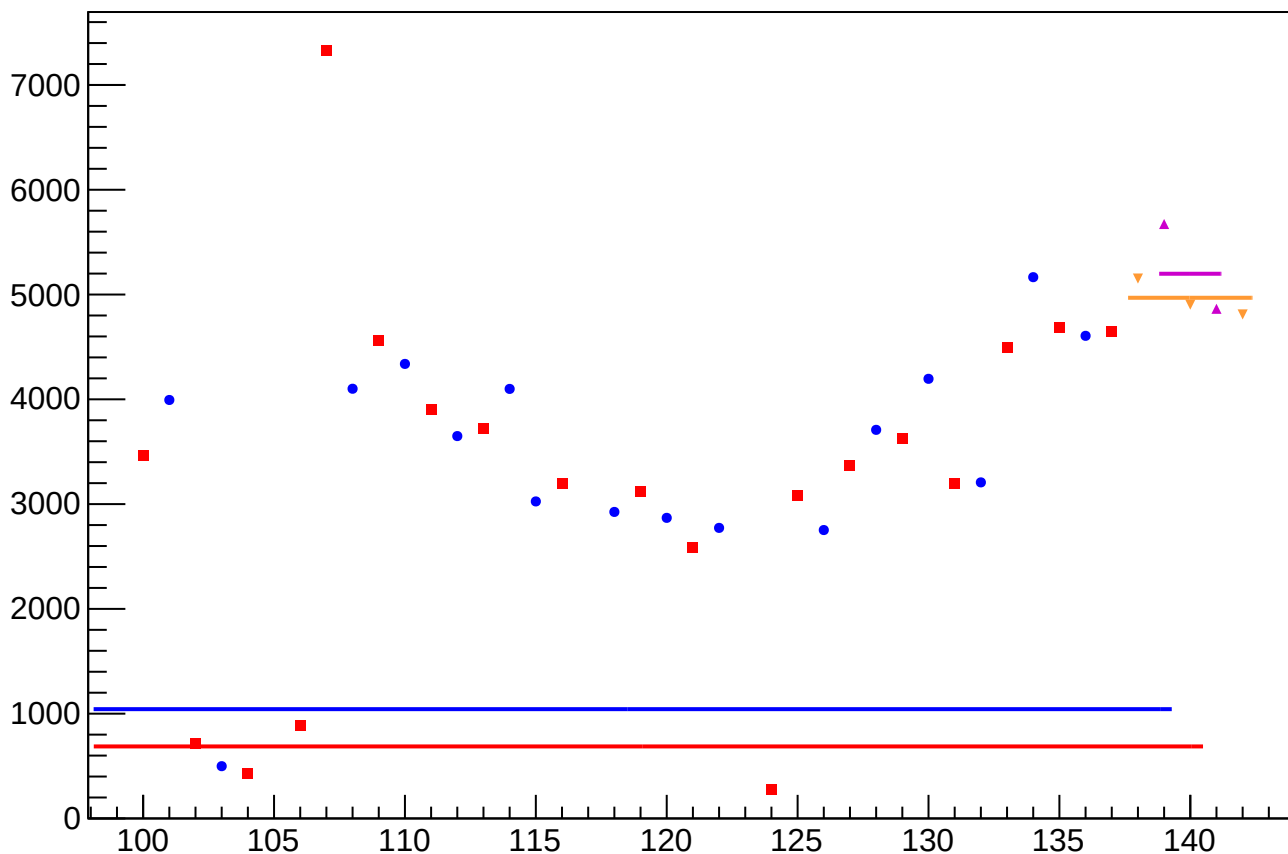
Right: 401.068 $\pm$ 345.050 χ^2 /NDF: 34.6/34

In: 128.399 $\pm$ 585.169 χ^2 /NDF:16.1/17

Out: 590.447 $\pm$ 421.653 χ^2 /NDF:20.6/21

All: 432.535 $\pm$ 342.094 χ^2 /NDF: 37.1/39

asym_atl_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1043.117+/-0.418 χ^2/NDF : 8111897.6/15

Left Out: 4969.155+/-2.461 χ^2/NDF : 3197.0/2

Right Out: 687.329+/-0.300 χ^2/NDF : 8631529.6/18

Left In: 5198.362+/-2.813 χ^2/NDF : 20064.6/1

Left: 5068.526+/-1.852 χ^2/NDF : 27023.7/4

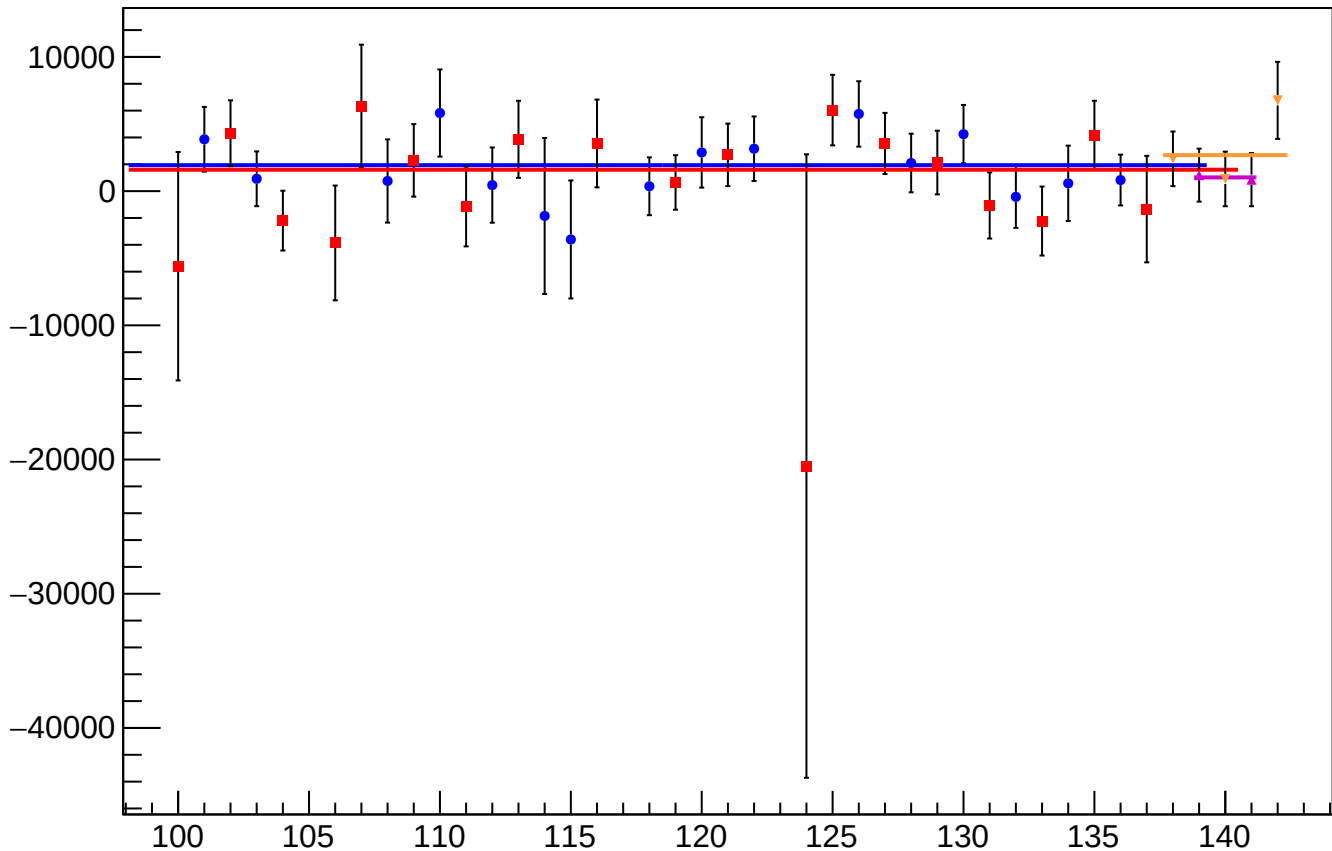
Right: 808.358+/-0.244 χ^2/NDF : 17220710.7/34

In: 1133.054+/-0.414 χ^2/NDF : 10267459.1/17

Out: 750.200+/-0.298 χ^2/NDF : 11618567.7/21

All: 881.046+/-0.242 χ^2/NDF : 22449552.5/39

cor_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1934.871+/-627.874 χ^2/NDF : 10.9/15

Left Out: 2683.936+/-1286.452 χ^2/NDF : 2.8/2

Right Out: 1595.521+/-642.212 χ^2/NDF : 19.4/18

Left In: 1023.162+/-1397.568 χ^2/NDF : 0.0/1

Left: 1922.185+/-946.507 χ^2/NDF : 3.6/4

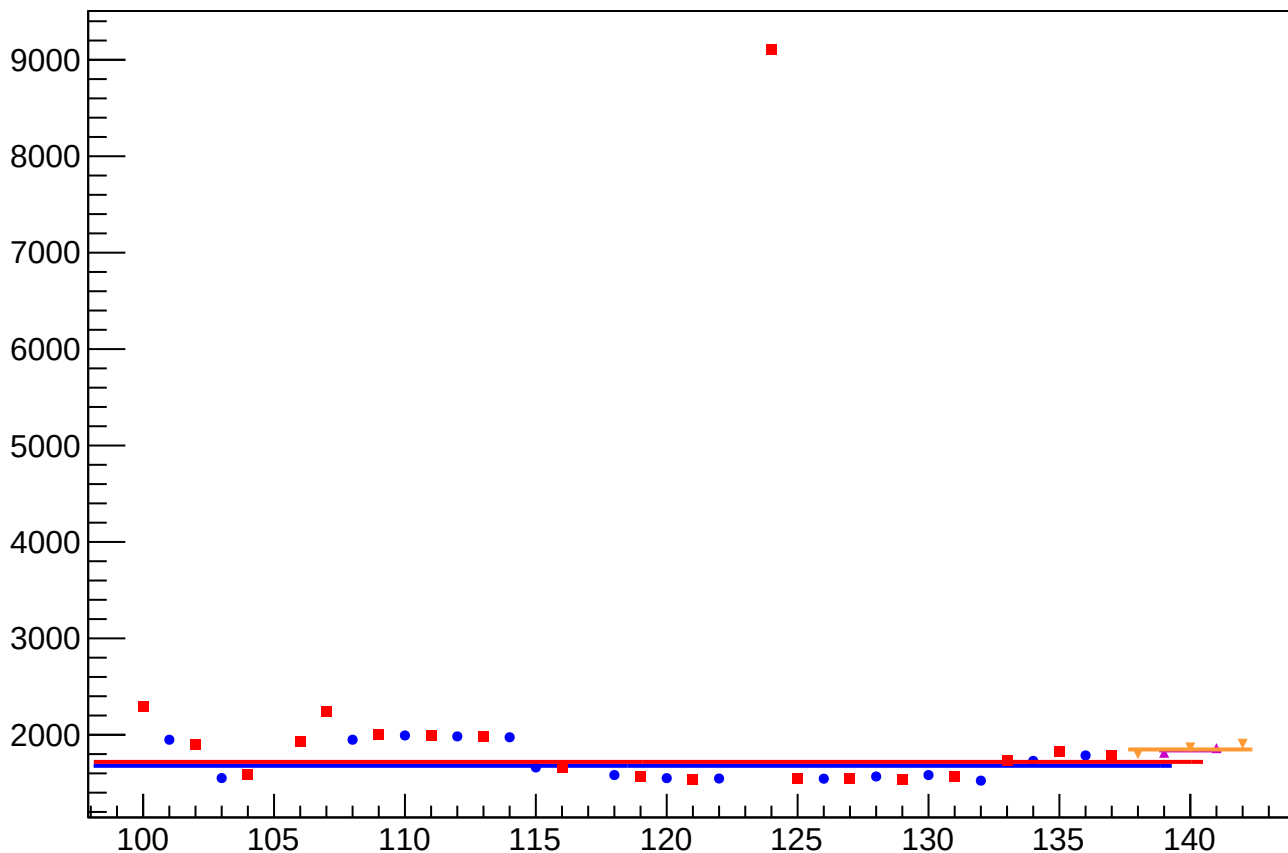
Right: 1769.026+/-448.957 χ^2/NDF : 30.4/34

In: 1781.759+/-572.730 χ^2/NDF : 11.3/17

Out: 1812.655+/-574.593 χ^2/NDF : 22.7/21

All: 1797.157+/-405.638 χ^2/NDF : 34.0/39

cor_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1678.543 $\pm$ 0.444 χ^2/NDF : 141482.7/15

Left Out: 1848.070 $\pm$ 0.910 χ^2/NDF : 2239.8/2

Right Out: 1719.146 $\pm$ 0.452 χ^2/NDF : 384922.3/18

Left In: 1837.971 $\pm$ 0.988 χ^2/NDF : 587.2/1

Left: 1843.438 $\pm$ 0.669 χ^2/NDF : 2883.6/4

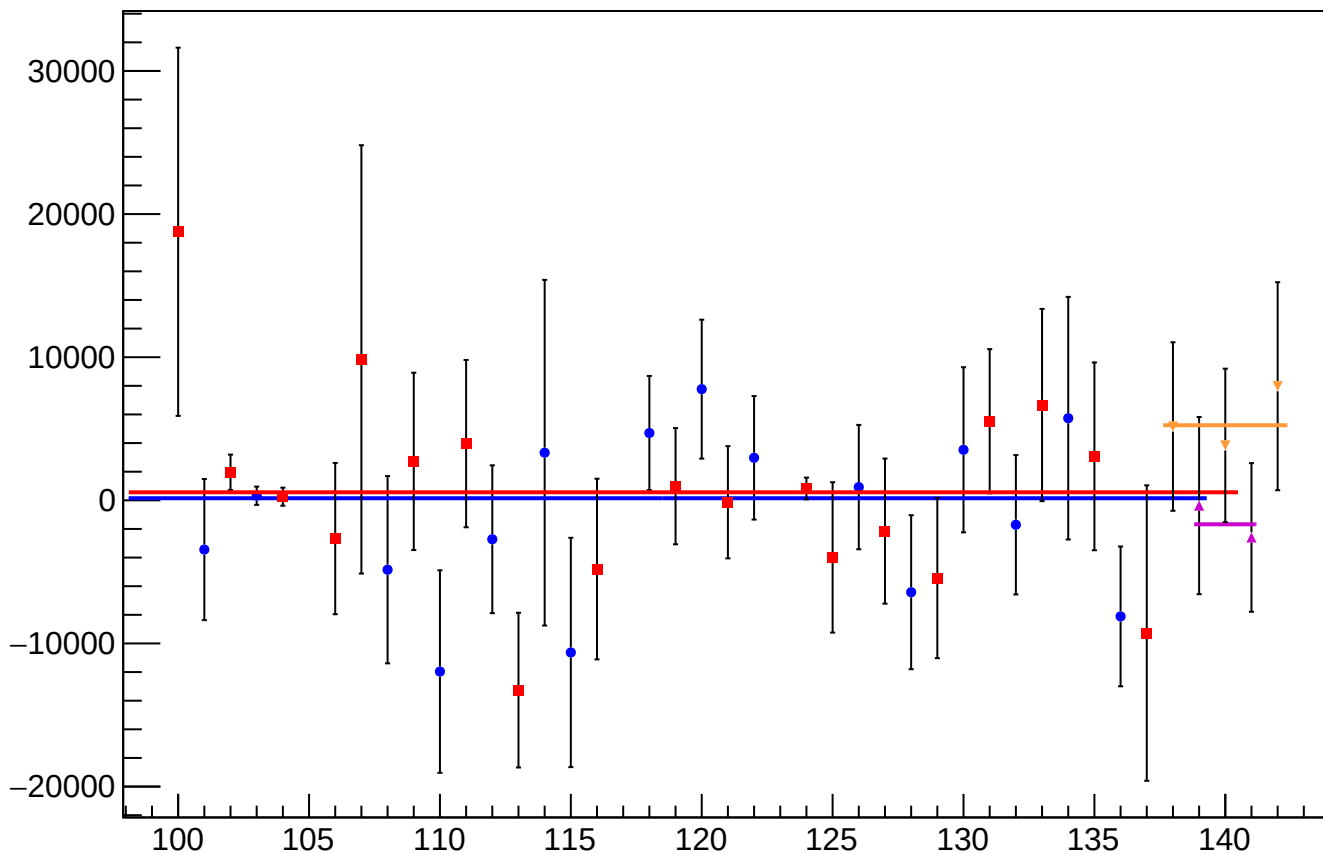
Right: 1698.473 $\pm$ 0.317 χ^2/NDF : 530510.4/34

In: 1705.317 $\pm$ 0.405 χ^2/NDF : 163725.4/17

Out: 1744.691 $\pm$ 0.405 χ^2/NDF : 403268.7/21

All: 1725.007 $\pm$ 0.286 χ^2/NDF : 571721.3/39

asym_atl_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: 146.548 $\pm$ 579.356 χ^2 /NDF: 15.8/15

Left Out: 5245.607 $\pm$ 3479.724 χ^2 /NDF:0.2/2

Right Out: 561.454 $\pm$ 430.621 χ^2 /NDF: 17.2/18

Left In: -1674.325 $\pm$ 3977.502 χ^2 /NDF:0.1/1

Left: 2245.505 $\pm$ 2618.952 χ^2 /NDF: 2.0/4

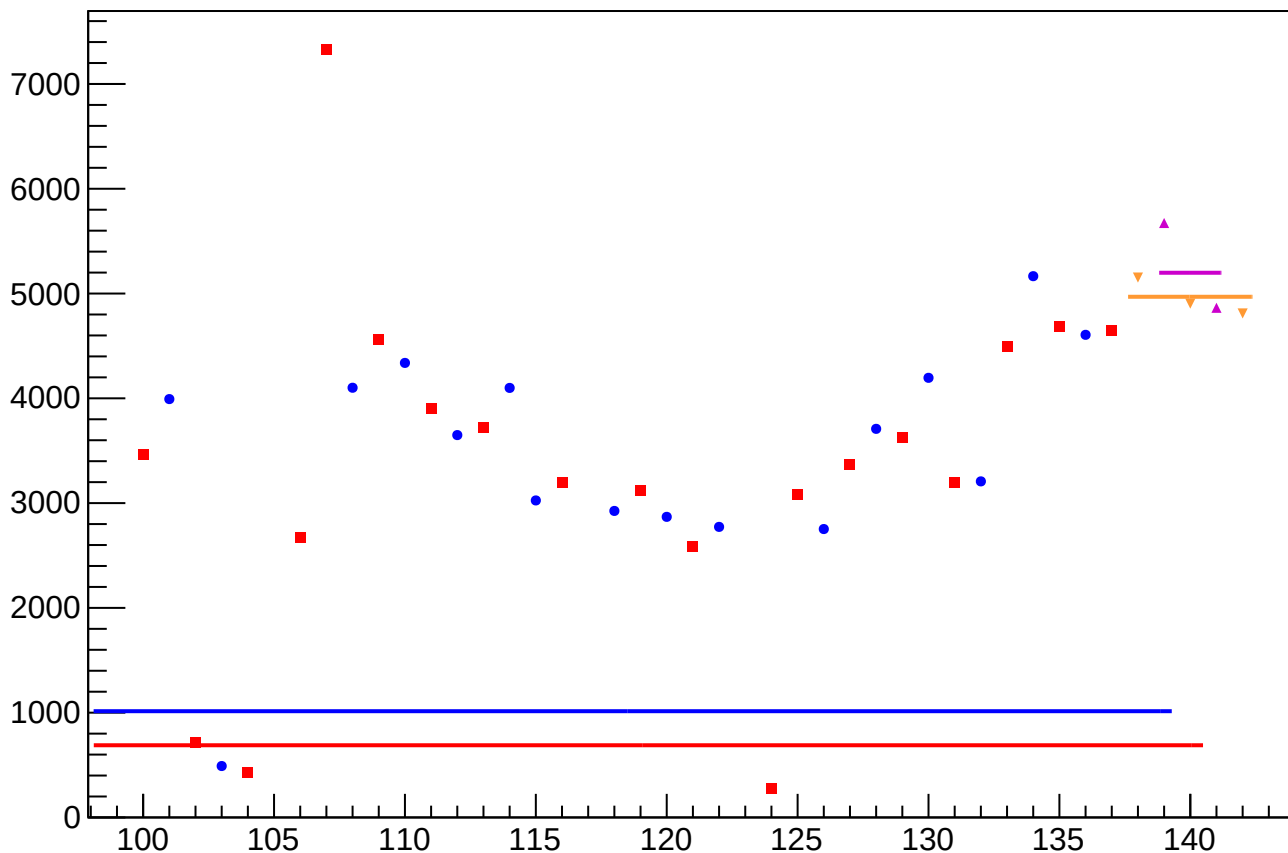
Right: 413.806 $\pm$ 345.609 χ^2 /NDF: 33.3/34

In: 108.718 $\pm$ 573.306 χ^2 /NDF:16.1/17

Out: 632.108 $\pm$ 427.361 χ^2 /NDF:19.2/21

All: 445.158 $\pm$ 342.639 χ^2 /NDF: 35.8/39

asym_atl_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1014.094+/-0.410 χ^2/NDF : 8223017.6/15

Left Out: 4969.164+/-2.461 χ^2/NDF : 3196.8/2

Right Out: 689.055+/-0.304 χ^2/NDF : 8910364.4/18

Left In: 5198.359+/-2.813 χ^2/NDF : 20064.9/1

Left: 5068.530+/-1.852 χ^2/NDF : 27023.4/4

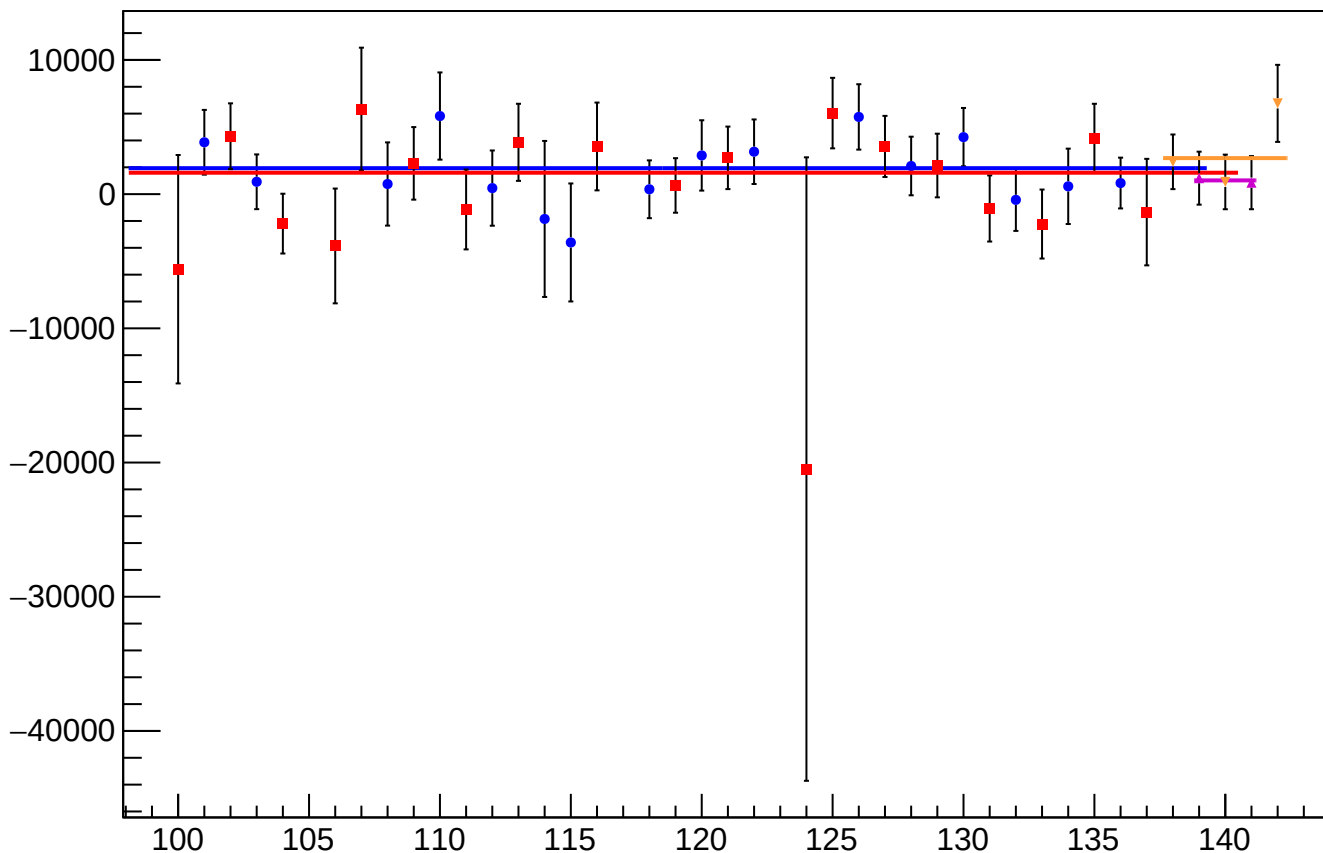
Right: 804.723+/-0.244 χ^2/NDF : 17538883.1/34

In: 1101.025+/-0.405 χ^2/NDF : 10410435.7/17

Out: 753.613+/-0.302 χ^2/NDF : 11893790.4/21

All: 877.705+/-0.242 χ^2/NDF : 22776318.7/39

eigen_cor_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1934.871+/-627.874 χ^2/NDF : 10.9/15

Left Out: 2683.936+/-1286.452 χ^2/NDF : 2.8/2

Right Out: 1595.521+/-642.212 χ^2/NDF : 19.4/18

Left In: 1023.162+/-1397.568 χ^2/NDF : 0.0/1

Left: 1922.185+/-946.507 χ^2/NDF : 3.6/4

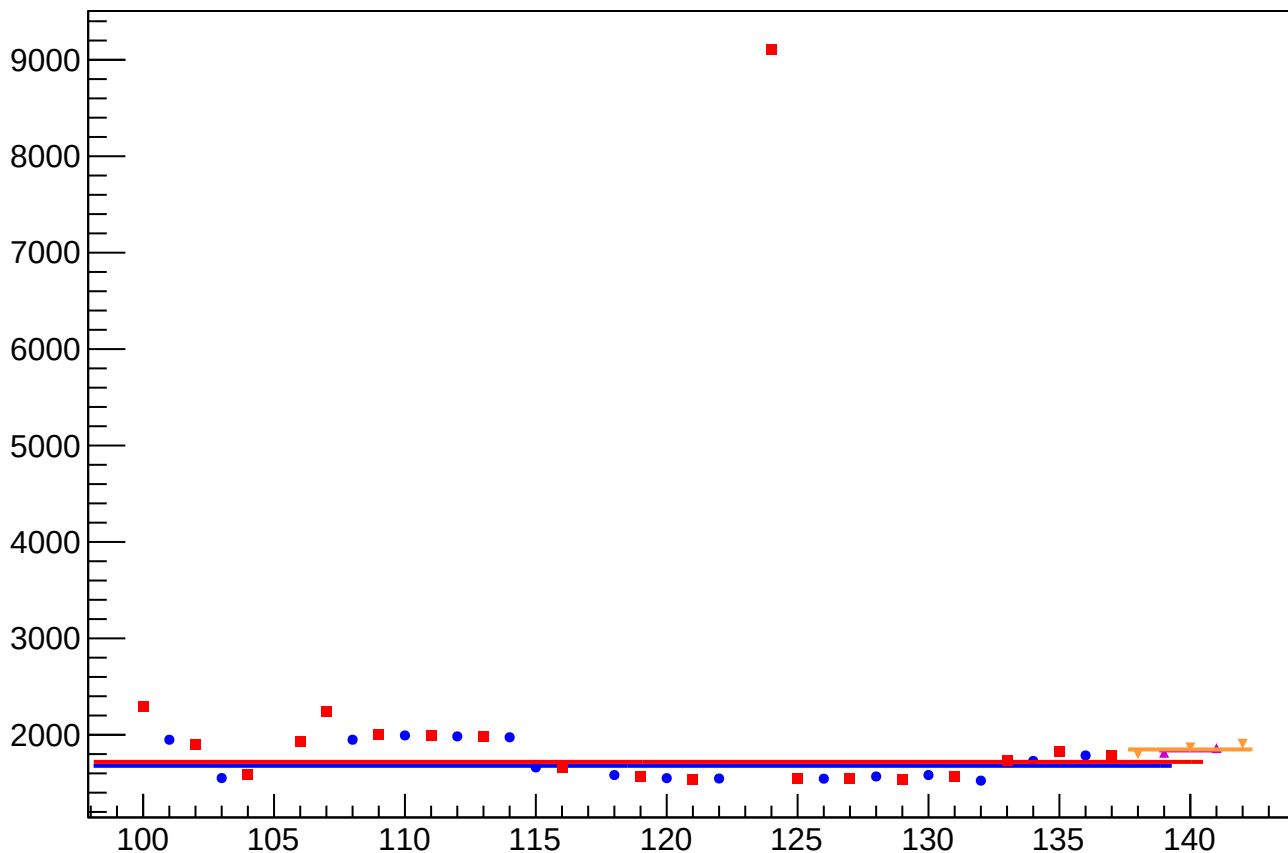
Right: 1769.026+/-448.957 χ^2/NDF : 30.4/34

In: 1781.759+/-572.730 χ^2/NDF : 11.3/17

Out: 1812.655+/-574.593 χ^2/NDF : 22.7/21

All: 1797.157+/-405.638 χ^2/NDF : 34.0/39

eigen_cor_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1678.543+/-0.444 χ^2/NDF : 141482.7/15

Left Out: 1848.070+/-0.910 χ^2/NDF : 2239.8/2

Right Out: 1719.146+/-0.452 χ^2/NDF : 384922.3/18

Left In: 1837.971+/-0.988 χ^2/NDF : 587.2/1

Left: 1843.438+/-0.669 χ^2/NDF : 2883.6/4

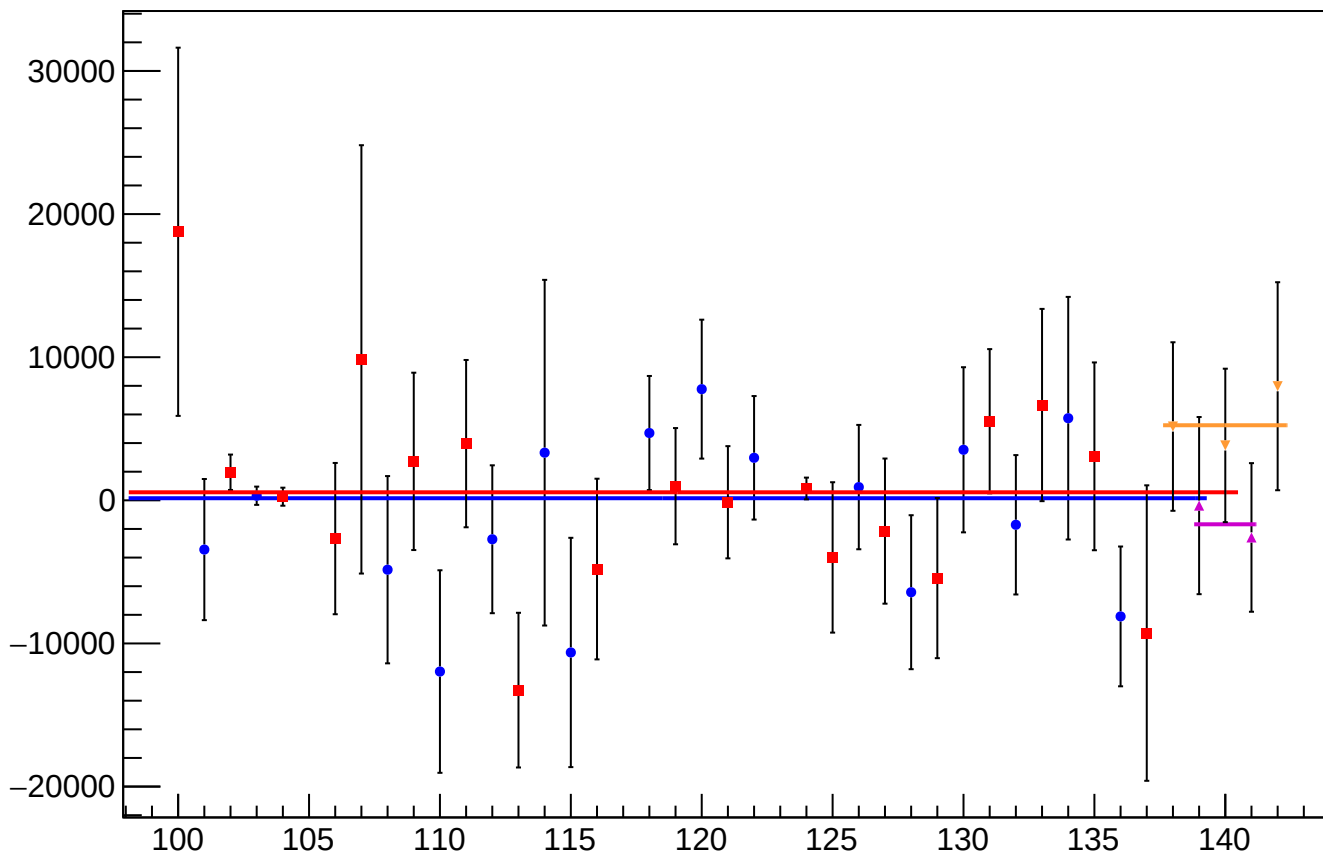
Right: 1698.473+/-0.317 χ^2/NDF : 530510.4/34

In: 1705.317+/-0.405 χ^2/NDF : 163725.4/17

Out: 1744.691+/-0.405 χ^2/NDF : 403268.7/21

All: 1725.007+/-0.286 χ^2/NDF : 571721.3/39

asym_atl_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 146.548 $\pm$ 579.356 χ^2 /NDF: 15.8/15

Left Out: 5245.607 $\pm$ 3479.724 χ^2 /NDF:0.2/2

Right Out: 561.454 $\pm$ 430.621 χ^2 /NDF: 17.2/18

Left In: -1674.325 $\pm$ 3977.502 χ^2 /NDF:0.1/1

Left: 2245.505 $\pm$ 2618.952 χ^2 /NDF: 2.0/4

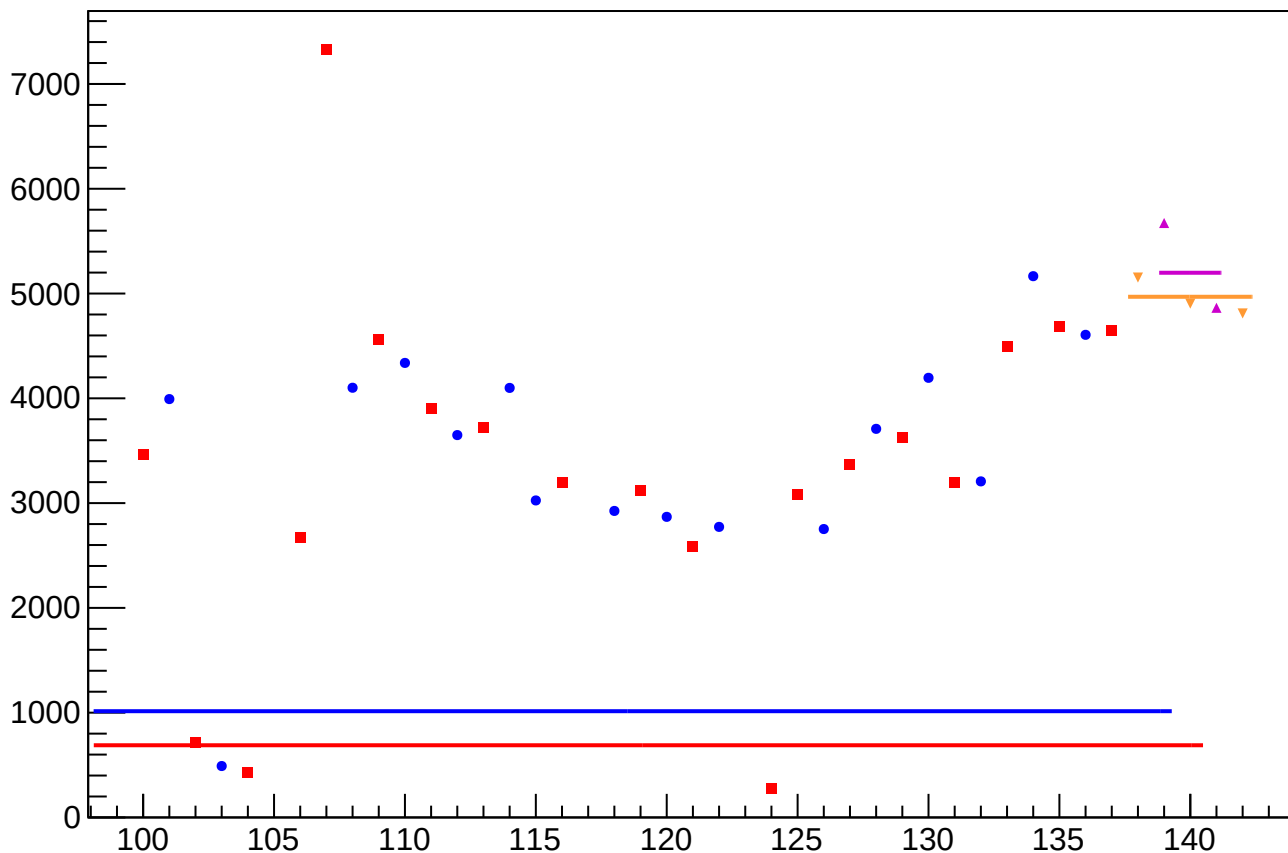
Right: 413.806 $\pm$ 345.609 χ^2 /NDF: 33.3/34

In: 108.718 $\pm$ 573.306 χ^2 /NDF:16.1/17

Out: 632.108 $\pm$ 427.361 χ^2 /NDF:19.2/21

All: 445.158 $\pm$ 342.639 χ^2 /NDF: 35.8/39

asym_atl_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1014.094+/-0.410

χ^2/NDF : 8223017.6/15

Left Out: 4969.164+/-2.461

χ^2/NDF : 3196.8/2

Right Out: 689.055+/-0.304

χ^2/NDF : 8910364.4/18

Left In: 5198.359+/-2.813

χ^2/NDF : 20064.9/1

Left: 5068.530+/-1.852

χ^2/NDF : 27023.4/4

Right: 804.723+/-0.244

χ^2/NDF : 17538883.1/34

In: 1101.025+/-0.405

χ^2/NDF : 10410435.7/17

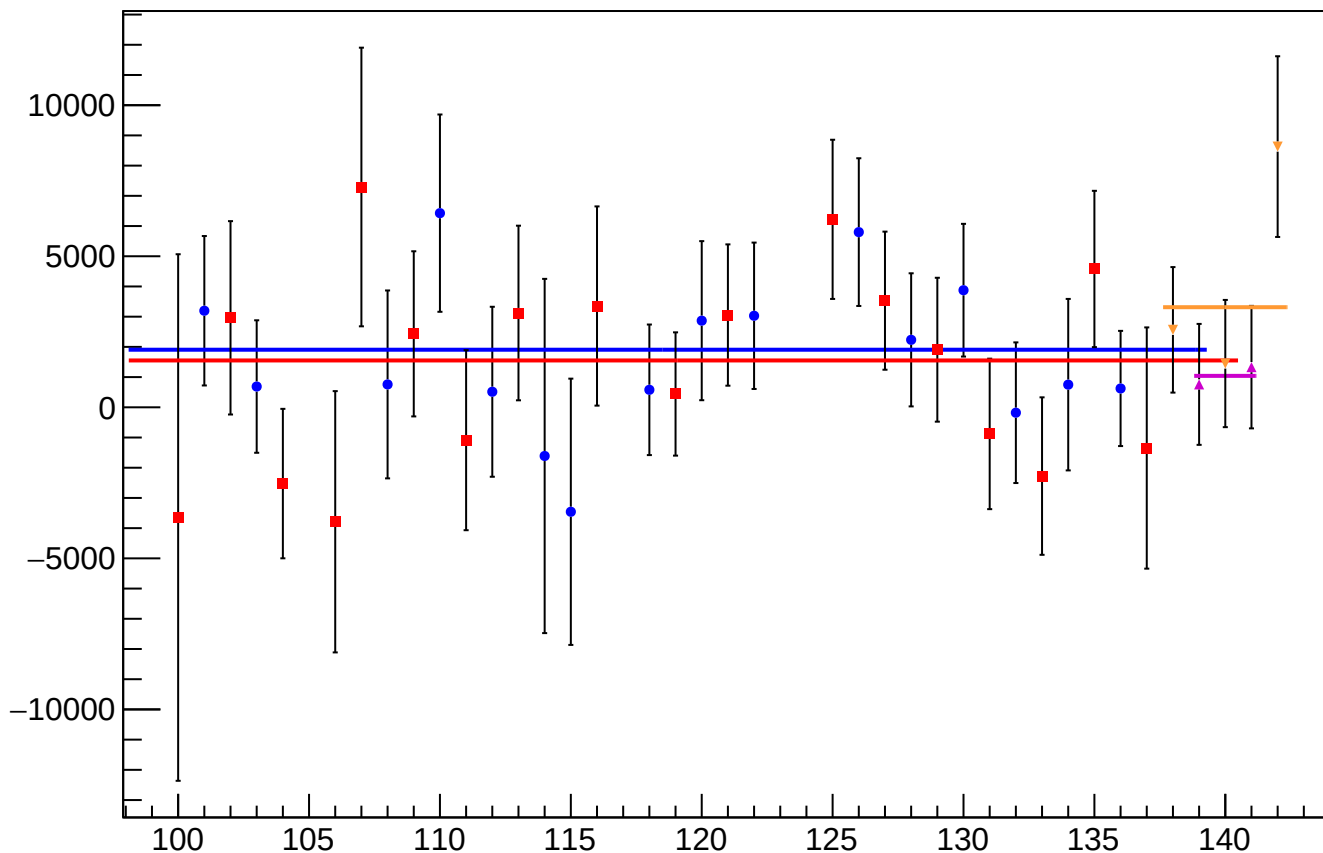
Out: 753.613+/-0.302

χ^2/NDF : 11893790.4/21

All: 877.705+/-0.242

χ^2/NDF : 22776318.7/39

dit_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1906.205+/-636.433 χ^2/NDF : 10.2/15

Left Out: 3313.493+/-1325.594 χ^2/NDF : 4.1/2

Right Out: 1550.986+/-661.054 χ^2/NDF : 17.5/17

Left In: 1040.808+/-1424.394 χ^2/NDF : 0.0/1

Left: 2258.697+/-970.387 χ^2/NDF : 5.5/4

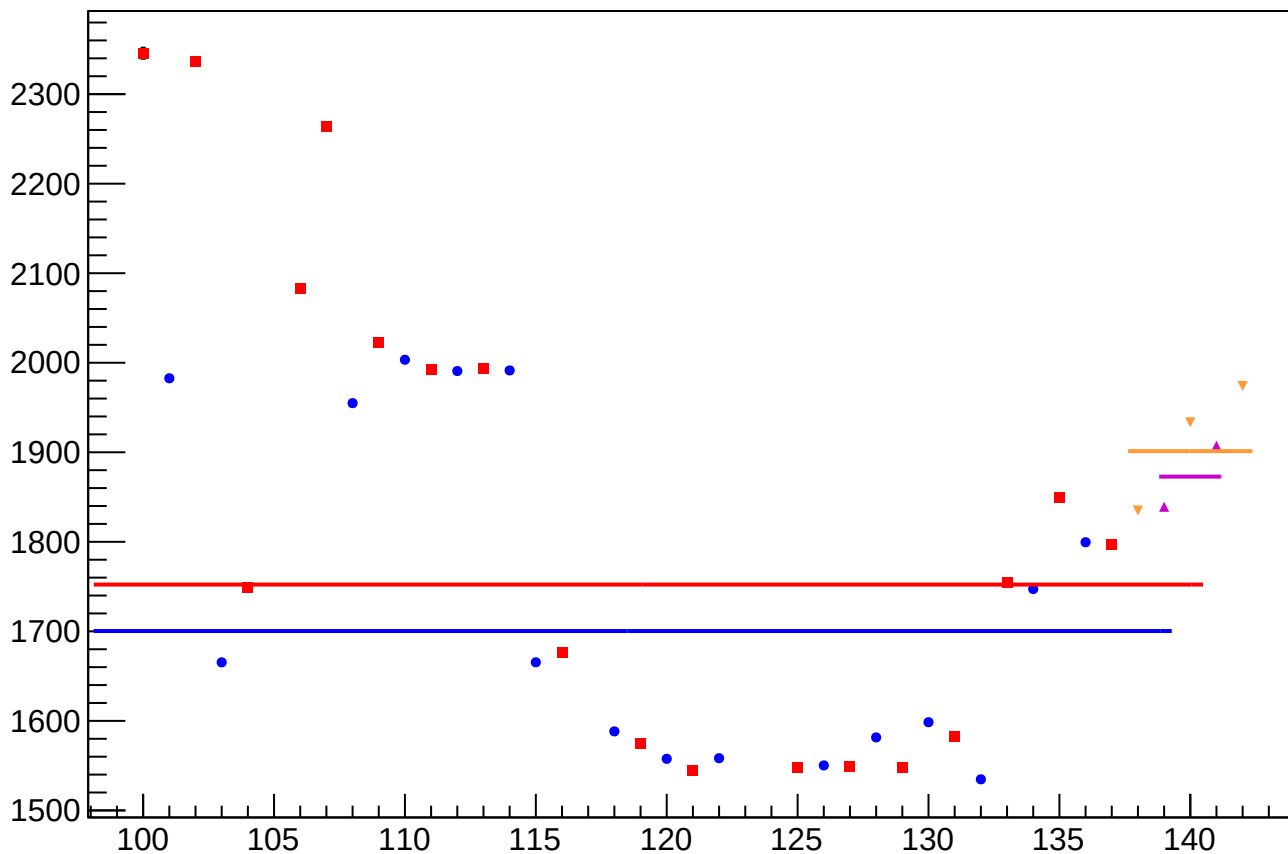
Right: 1735.334+/-458.483 χ^2/NDF : 27.8/33

In: 1762.189+/-581.069 χ^2/NDF : 10.6/17

Out: 1902.005+/-591.576 χ^2/NDF : 22.9/20

All: 1830.844+/-414.543 χ^2/NDF : 33.5/38

dit_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1700.357 +/- 0.450 χ^2/NDF : 135419.2/15

Left Out: 1901.269 +/- 0.937 χ^2/NDF : 3685.5/2

Right Out: 1752.239 +/- 0.466 χ^2/NDF : 247952.8/17

Left In: 1872.804 +/- 1.007 χ^2/NDF : 1145.1/1

Left: 1888.058 +/- 0.686 χ^2/NDF : 5258.7/4

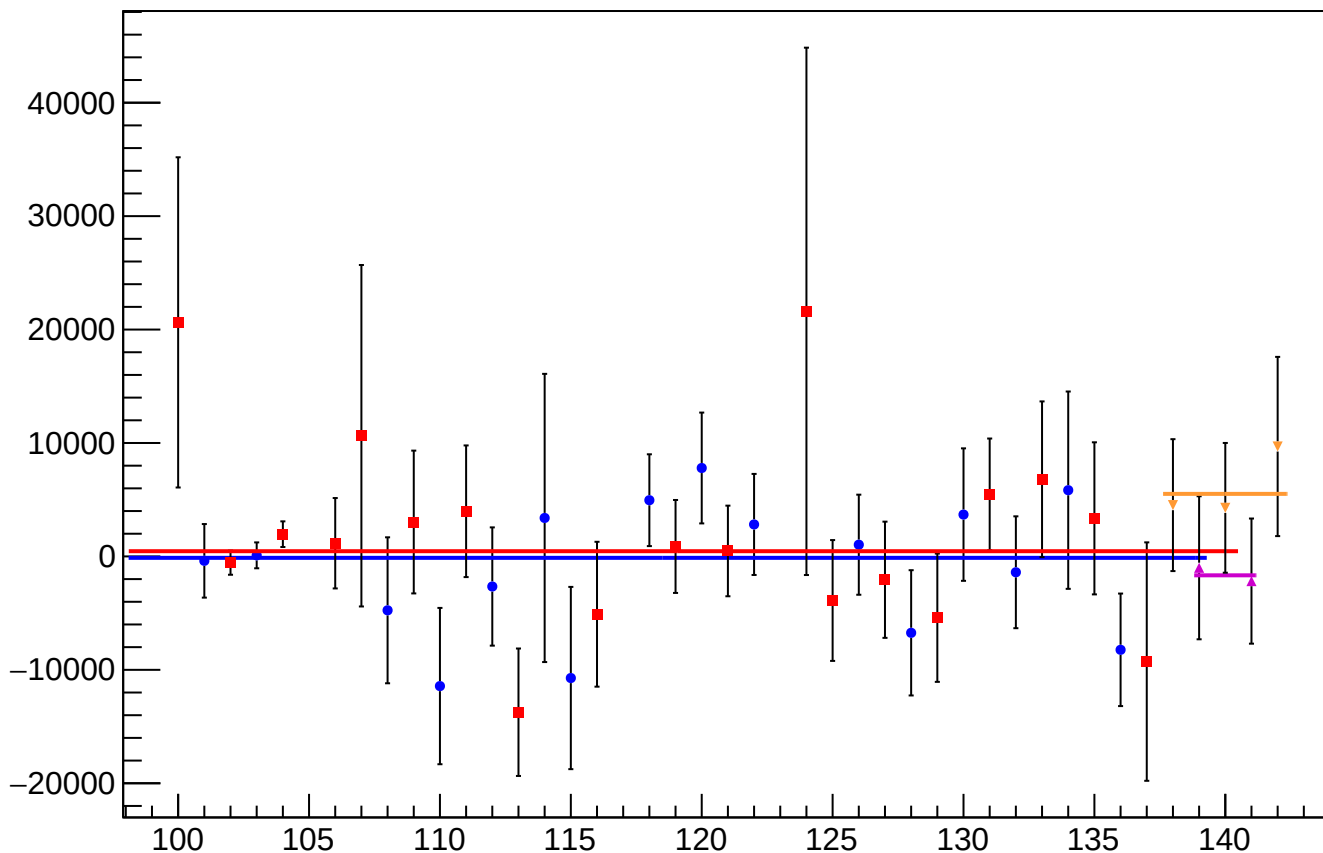
Right: 1725.373 +/- 0.324 χ^2/NDF : 389780.4/33

In: 1729.055 +/- 0.411 χ^2/NDF : 161000.2/17

Out: 1781.811 +/- 0.418 χ^2/NDF : 271901.2/20

All: 1755.009 +/- 0.293 χ^2/NDF : 441011.9/38

asym_atl_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -125.468 $\pm$ 867.645 χ^2 /NDF: 15.1/15

Left Out: 5513.171 $\pm$ 3623.431 χ^2 /NDF:0.4/2

Right Out: 459.431 $\pm$ 679.157 χ^2 /NDF: 18.5/18

Left In: -1667.139 $\pm$ 4151.791 χ^2 /NDF:0.0/1

Left: 2408.706 $\pm$ 2729.966 χ^2 /NDF: 2.1/4

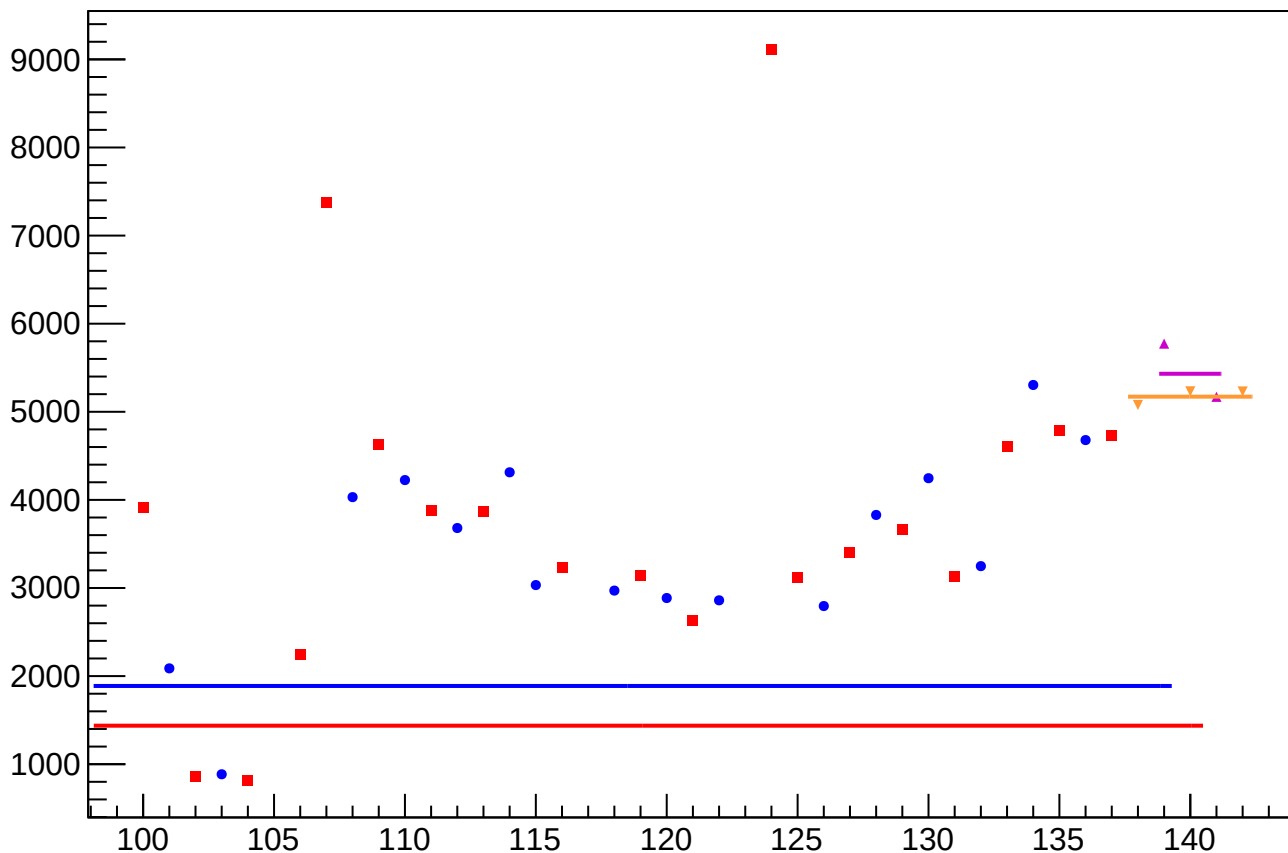
Right: 237.213 $\pm$ 534.800 χ^2 /NDF: 33.9/34

In: -189.980 $\pm$ 849.298 χ^2 /NDF:15.2/17

Out: 630.952 $\pm$ 667.532 χ^2 /NDF:20.7/21

All: 317.468 $\pm$ 524.825 χ^2 /NDF: 36.5/39

asym_atl_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1887.999 $\pm$ 0.614 χ^2/NDF : 4425691.6/15

Left Out: 5171.732 $\pm$ 2.562 χ^2/NDF : 865.5/2

Right Out: 1437.108 $\pm$ 0.480 χ^2/NDF : 5964193.5/18

Left In: 5431.582 $\pm$ 2.936 χ^2/NDF : 10384.8/1

Left: 5284.080 $\pm$ 1.930 χ^2/NDF : 15697.4/4

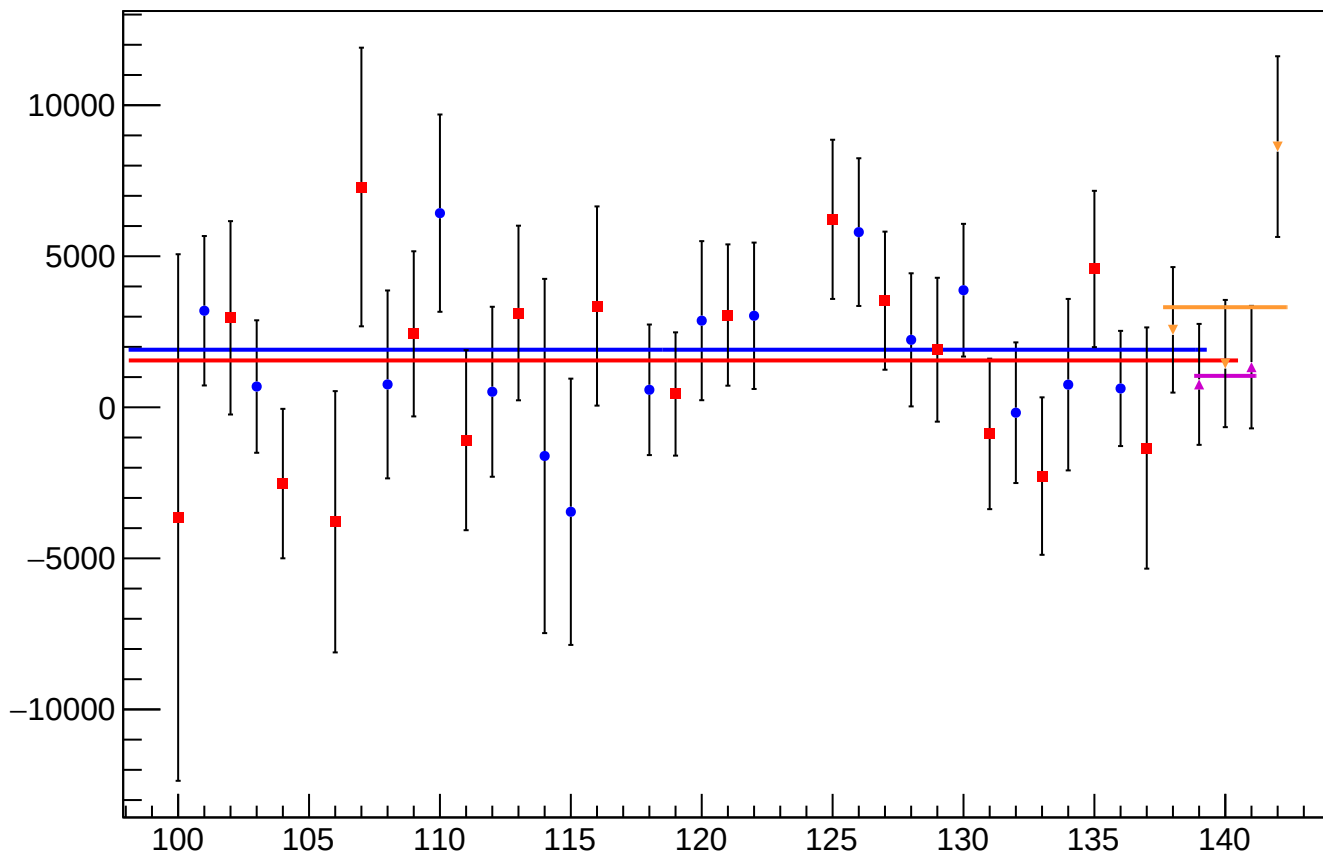
Right: 1608.413 $\pm$ 0.378 χ^2/NDF : 10724797.8/34

In: 2036.282 $\pm$ 0.601 χ^2/NDF : 5832058.4/17

Out: 1563.859 $\pm$ 0.472 χ^2/NDF : 8017581.3/21

All: 1744.260 $\pm$ 0.371 χ^2/NDF : 14232161.2/3

eigen_dit_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1906.203+/-636.433 χ^2/NDF : 10.2/15

Left Out: 3313.508+/-1325.595 χ^2/NDF : 4.1/2

Right Out: 1550.983+/-661.054 χ^2/NDF : 17.5/17

Left In: 1040.805+/-1424.395 χ^2/NDF : 0.0/1

Left: 2258.704+/-970.387 χ^2/NDF : 5.5/4

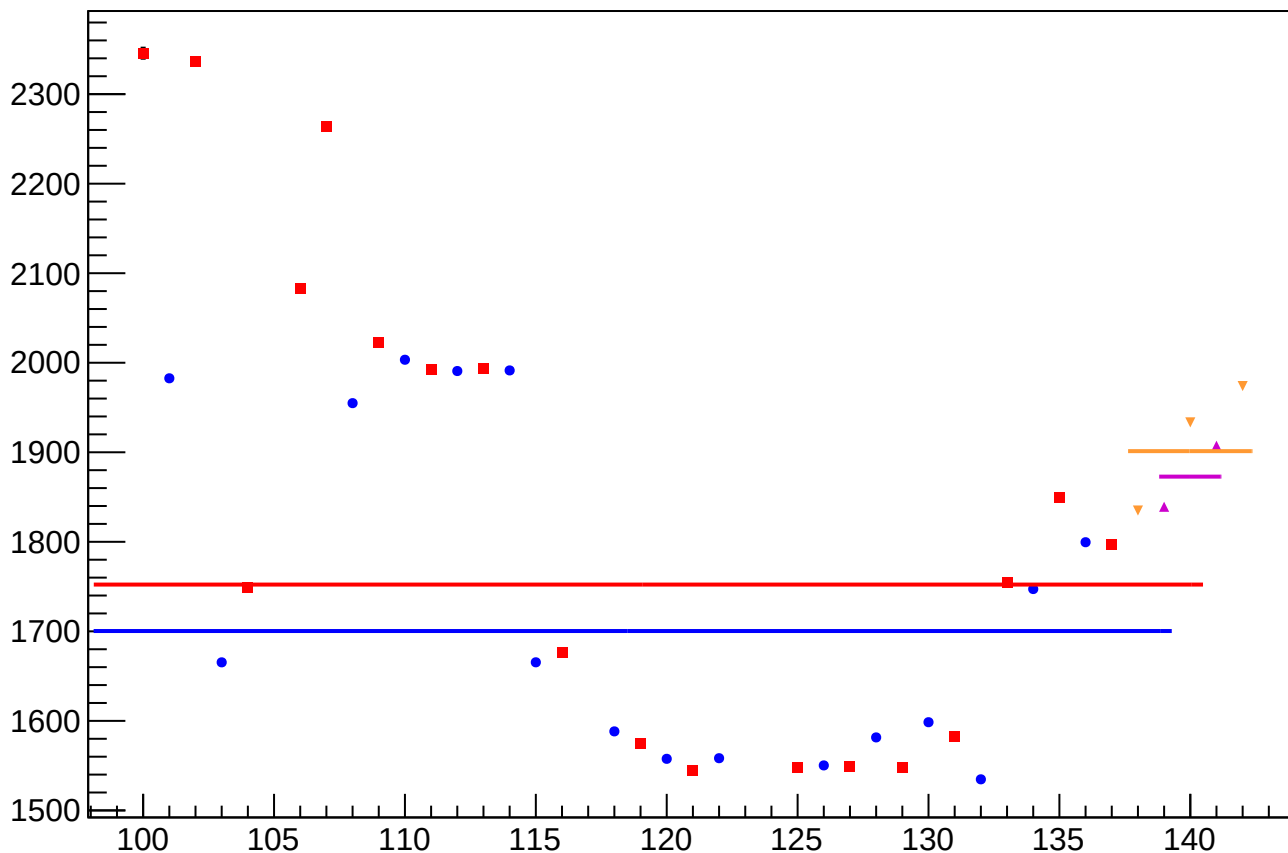
Right: 1735.331+/-458.483 χ^2/NDF : 27.8/33

In: 1762.188+/-581.069 χ^2/NDF : 10.6/17

Out: 1902.005+/-591.575 χ^2/NDF : 22.9/20

All: 1830.844+/-414.542 χ^2/NDF : 33.5/38

eigen_dit_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1700.357+/-0.450 χ^2/NDF : 135419.5/15

Left Out: 1901.270+/-0.937 χ^2/NDF : 3685.7/2

Right Out: 1752.238+/-0.466 χ^2/NDF : 247952.3/17

Left In: 1872.805+/-1.007 χ^2/NDF : 1145.1/1

Left: 1888.059+/-0.686 χ^2/NDF : 5258.8/4

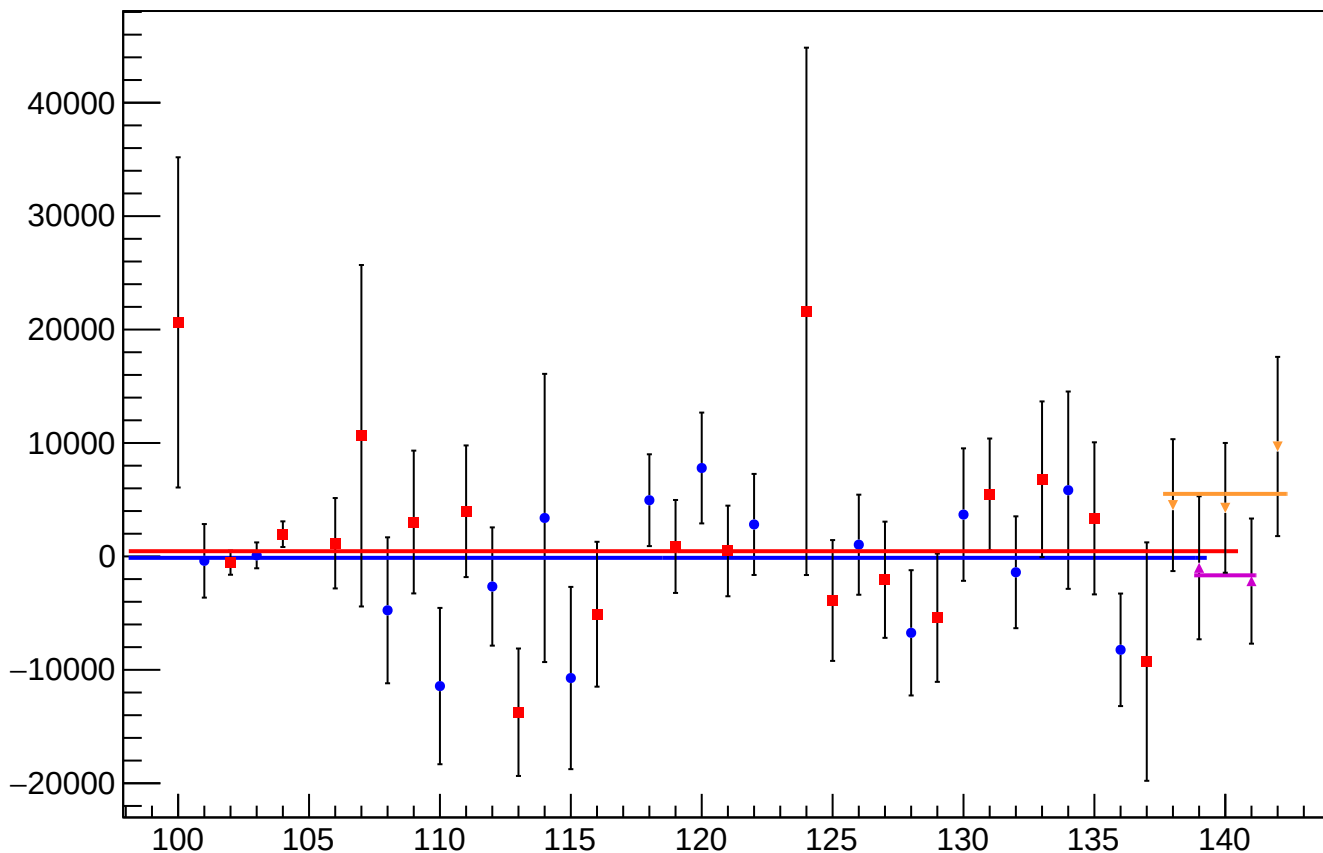
Right: 1725.372+/-0.324 χ^2/NDF : 389780.1/33

In: 1729.055+/-0.411 χ^2/NDF : 161000.8/17

Out: 1781.811+/-0.418 χ^2/NDF : 271901.2/20

All: 1755.008+/-0.293 χ^2/NDF : 441012.5/38

asym_atl_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -125.464+/-867.639 χ^2/NDF : 15.1/15

Left Out: 5513.194+/-3623.441 χ^2/NDF : 0.4/2

Right Out: 459.430+/-679.152 χ^2/NDF : 18.5/18

Left In: -1667.141+/-4151.801 χ^2/NDF : 0.0/1

Left: 2408.717+/-2729.973 χ^2/NDF : 2.1/4

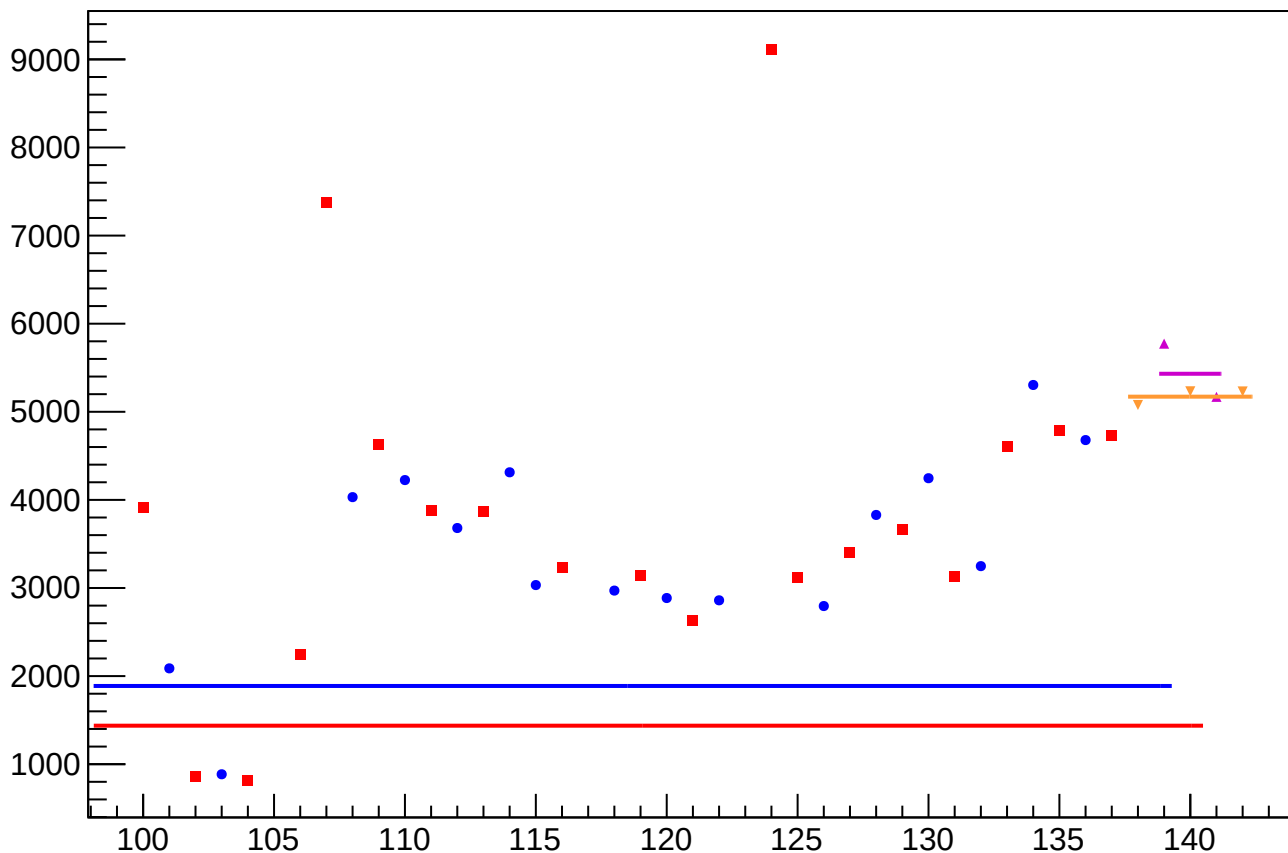
Right: 237.214+/-534.797 χ^2/NDF : 33.9/34

In: -189.975+/-849.292 χ^2/NDF : 15.2/17

Out: 630.948+/-667.527 χ^2/NDF : 20.7/21

All: 317.468+/-524.821 χ^2/NDF : 36.5/39

asym_atl_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1887.982+/-0.614 χ^2/NDF : 4425728.6/15

Left Out: 5171.745+/-2.562 χ^2/NDF : 865.4/2

Right Out: 1437.095+/-0.480 χ^2/NDF : 5964228.2/18

Left In: 5431.594+/-2.936 χ^2/NDF : 10385.2/1

Left: 5284.093+/-1.930 χ^2/NDF : 15697.6/4

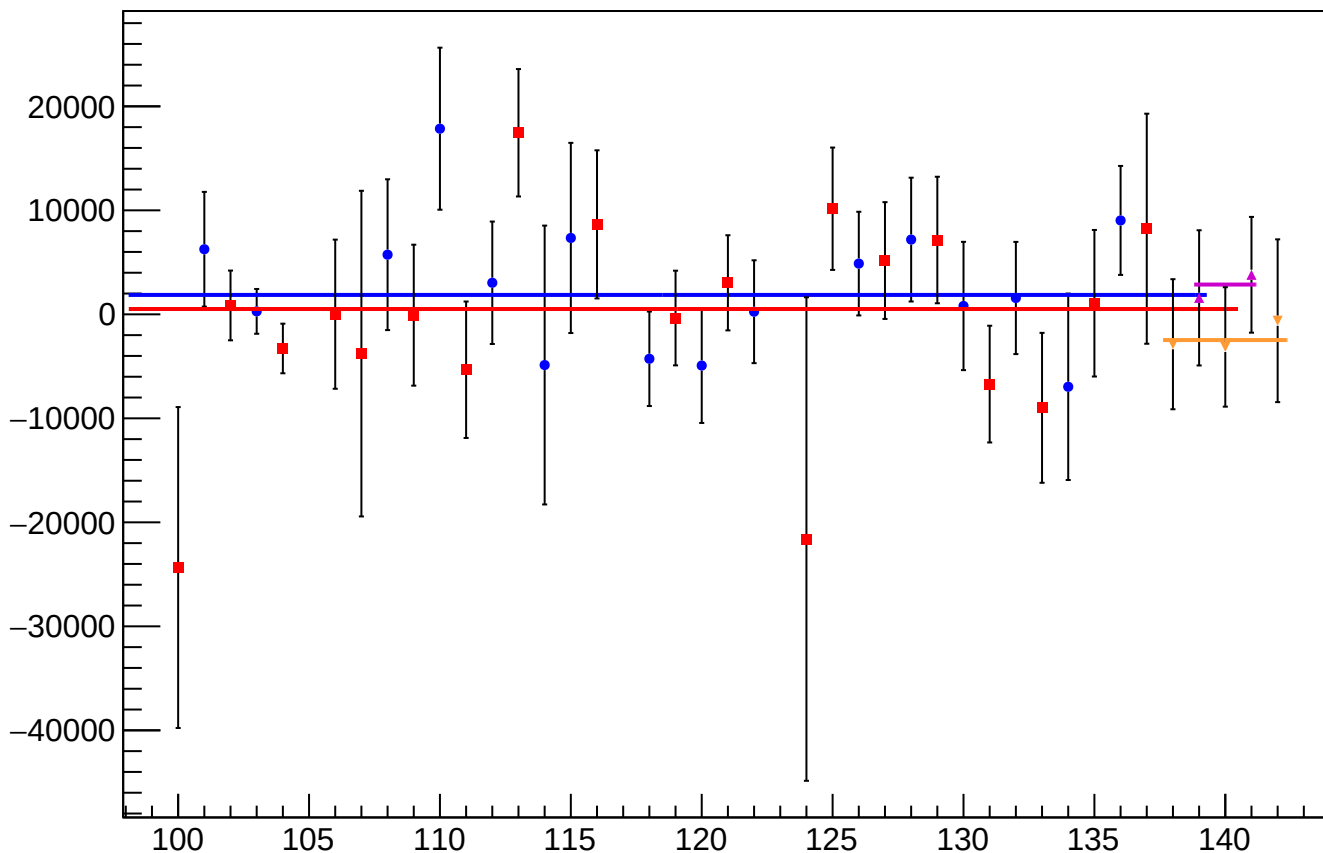
Right: 1608.398+/-0.378 χ^2/NDF : 10724869.8/34

In: 2036.264+/-0.601 χ^2/NDF : 5832113.0/17

Out: 1563.844+/-0.472 χ^2/NDF : 8017636.4/21

All: 1744.244+/-0.371 χ^2/NDF : 14232271.4/3

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1866.618 ± 1259.187 $\chi^2/\text{NDF}: 13.8/15$

Left Out: -2473.345 ± 3721.079 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 512.528 ± 1241.513 $\chi^2/\text{NDF}: 24.7/18$

Left In: 2864.428 ± 4227.968 $\chi^2/\text{NDF}: 0.1/1$

Left: -143.455 ± 2793.311 $\chi^2/\text{NDF}: 1.0/4$

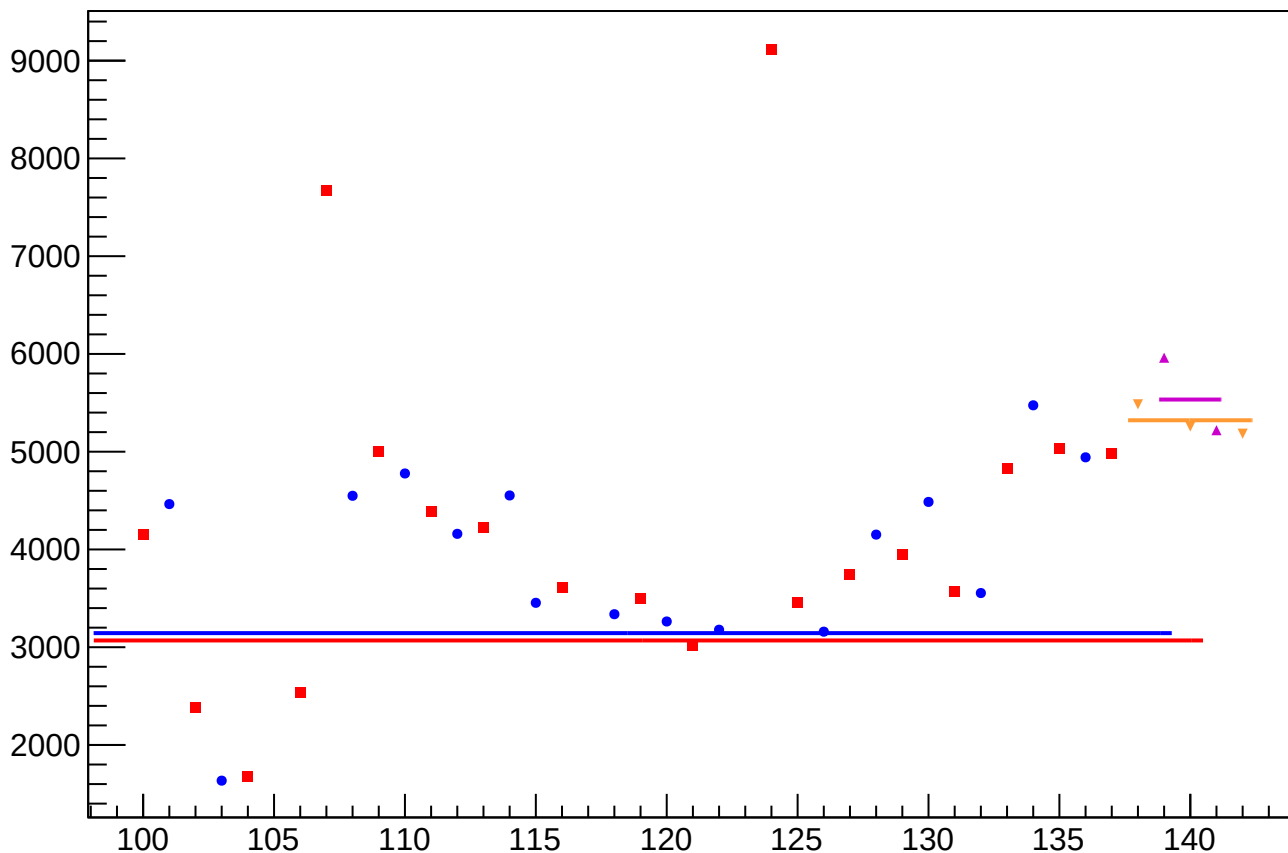
Right: 1180.003 ± 884.065 $\chi^2/\text{NDF}: 39.1/34$

In: 1947.912 ± 1206.803 $\chi^2/\text{NDF}: 13.9/17$

Out: 213.441 ± 1177.693 $\chi^2/\text{NDF}: 25.3/21$

All: 1059.505 ± 842.858 $\chi^2/\text{NDF}: 40.3/39$

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3144.136+/-0.890 χ^2/NDF : 1883139.2/15

Left Out: 5321.474+/-2.631 χ^2/NDF :2223.0/2

Right Out: 3069.098+/-0.864 χ^2/NDF : 1881644.6/18

Left In: 5533.560+/-2.990 χ^2/NDF :15023.7/1

Left: 5414.048+/-1.975 χ^2/NDF : 20082.6/4

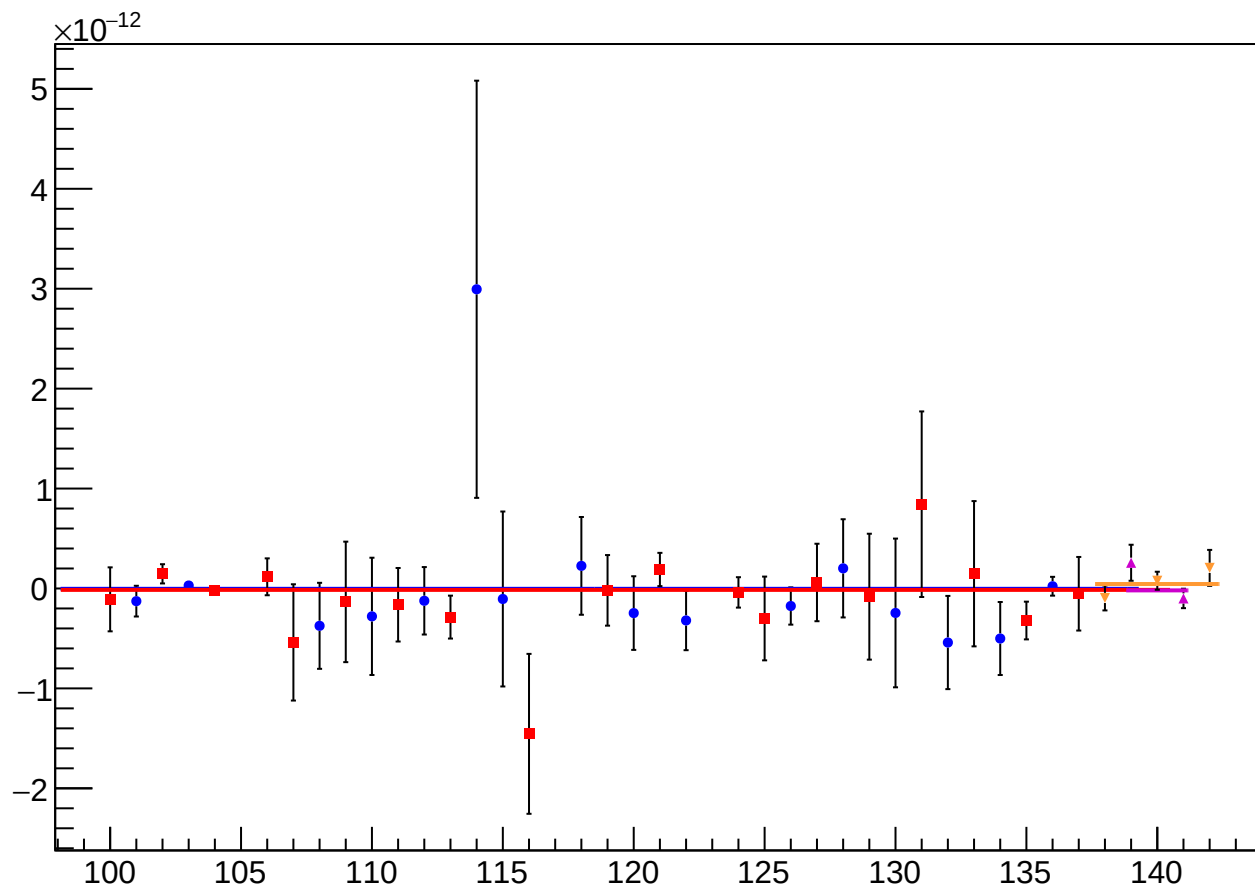
Right: 3105.498+/-0.620 χ^2/NDF : 3768440.9/34

In: 3338.807+/-0.853 χ^2/NDF :2484902.6/17

Out: 3288.416+/-0.821 χ^2/NDF :2545296.3/21

All: 3312.640+/-0.592 χ^2/NDF : 5032009.7/39

asym_atl_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 10.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.2/2

Right Out: -0.000+/-0.000 χ^2/NDF : 14.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 3.0/1

Left: 0.000+/-0.000 χ^2/NDF : 5.6/4

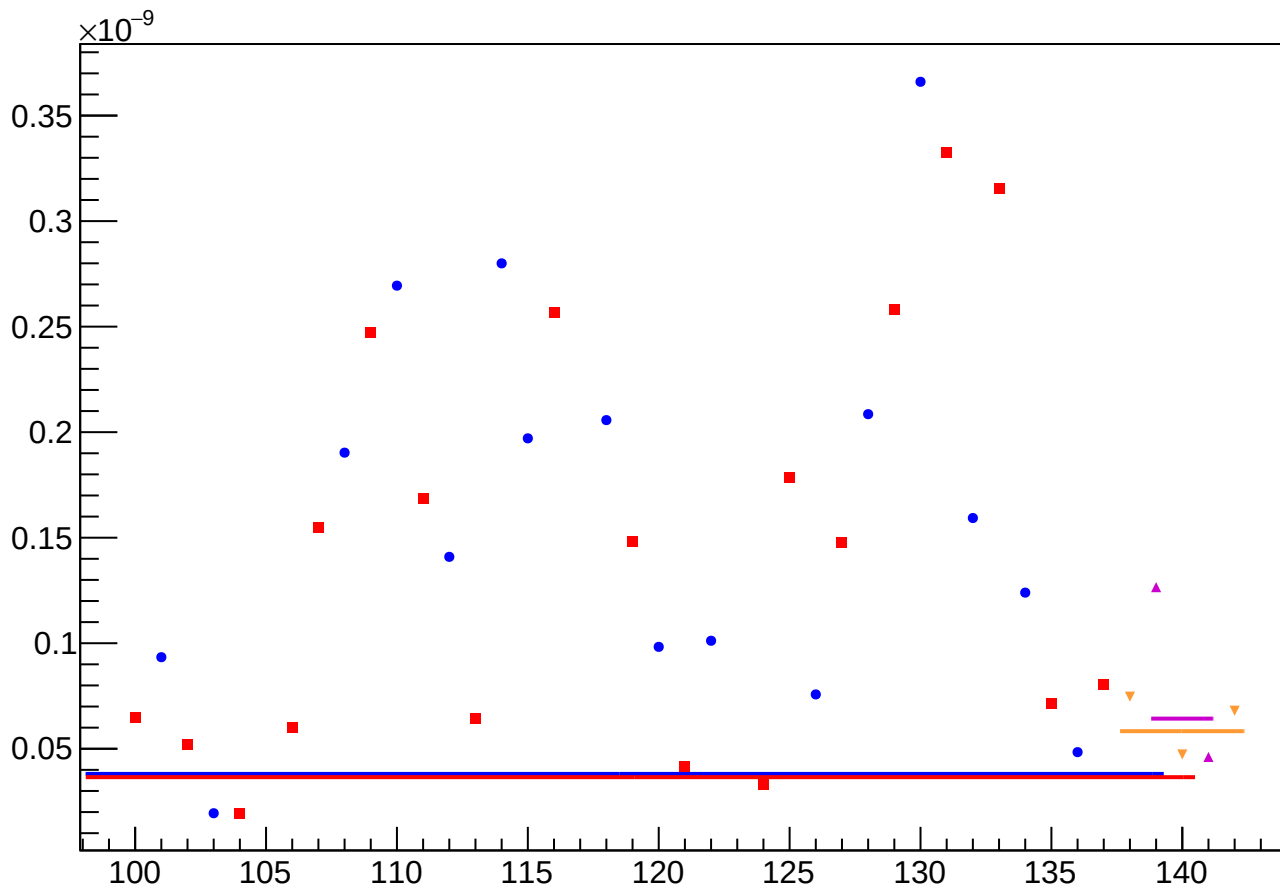
Right: -0.000+/-0.000 χ^2/NDF : 25.6/34

In: -0.000+/-0.000 χ^2/NDF : 13.7/17

Out: -0.000+/-0.000 χ^2/NDF : 17.7/21

All: -0.000+/-0.000 χ^2/NDF : 31.5/39

asym_atl_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2888502.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 70227.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2683451.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 308522.7/1

Left: 0.000+/-0.000 χ^2/NDF : 384689.9/4

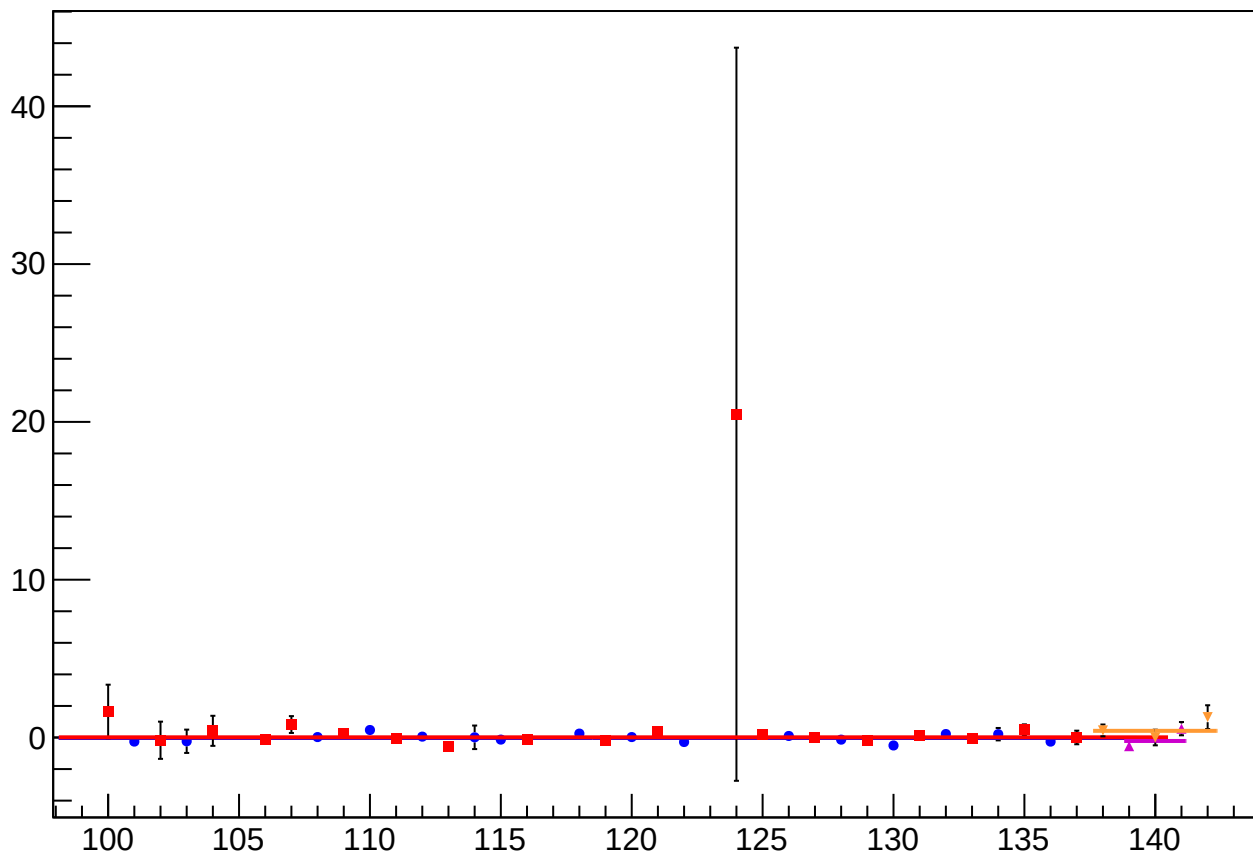
Right: 0.000+/-0.000 χ^2/NDF : 5574117.1/34

In: 0.000+/-0.000 χ^2/NDF : 3358750.7/17

Out: 0.000+/-0.000 χ^2/NDF : 2922192.6/21

All: 0.000+/-0.000 χ^2/NDF : 6282059.4/39

asym_atl_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.029 ± 0.058 χ^2/NDF : 17.2/15

Left Out: 0.423 ± 0.278 χ^2/NDF : 2.1/2

Right Out: 0.011 ± 0.057 χ^2/NDF : 21.8/18

Left In: -0.220 ± 0.229 χ^2/NDF : 4.9/1

Left: 0.040 ± 0.177 χ^2/NDF : 10.1/4

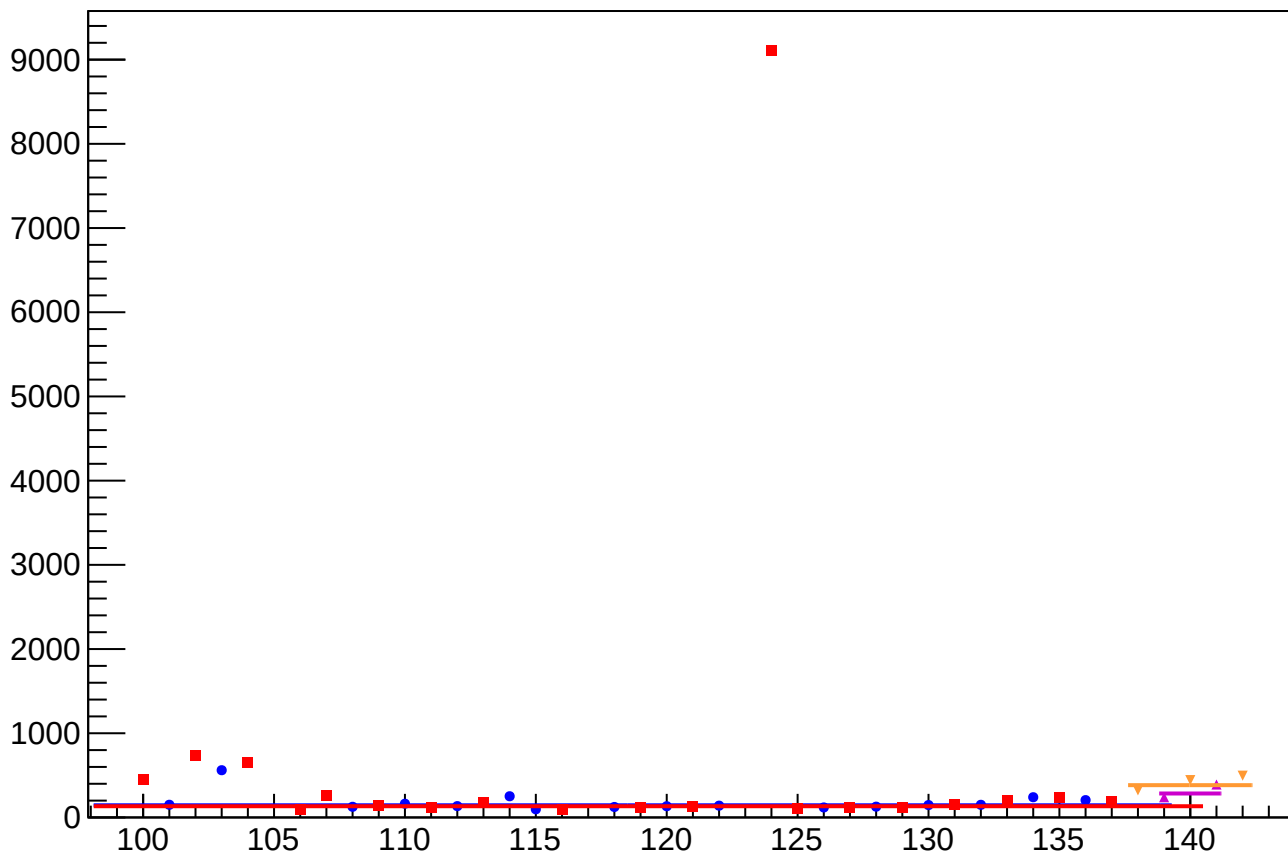
Right: -0.009 ± 0.040 χ^2/NDF : 39.3/34

In: -0.040 ± 0.056 χ^2/NDF : 22.8/17

Out: 0.027 ± 0.055 χ^2/NDF : 26.0/21

All: -0.006 ± 0.039 χ^2/NDF : 49.5/39

asym_atl_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 144.291 $\pm$ 0.041 χ^2 /NDF: 1128779.2/15

Left Out: 383.556 $\pm$ 0.196 χ^2 /NDF:128903.5/2

Right Out: 133.253 $\pm$ 0.040 χ^2 /NDF: 2220645.6/18

Left In: 284.610 $\pm$ 0.162 χ^2 /NDF:181981.3/1

Left: 324.643 $\pm$ 0.125 χ^2 /NDF: 462015.2/4

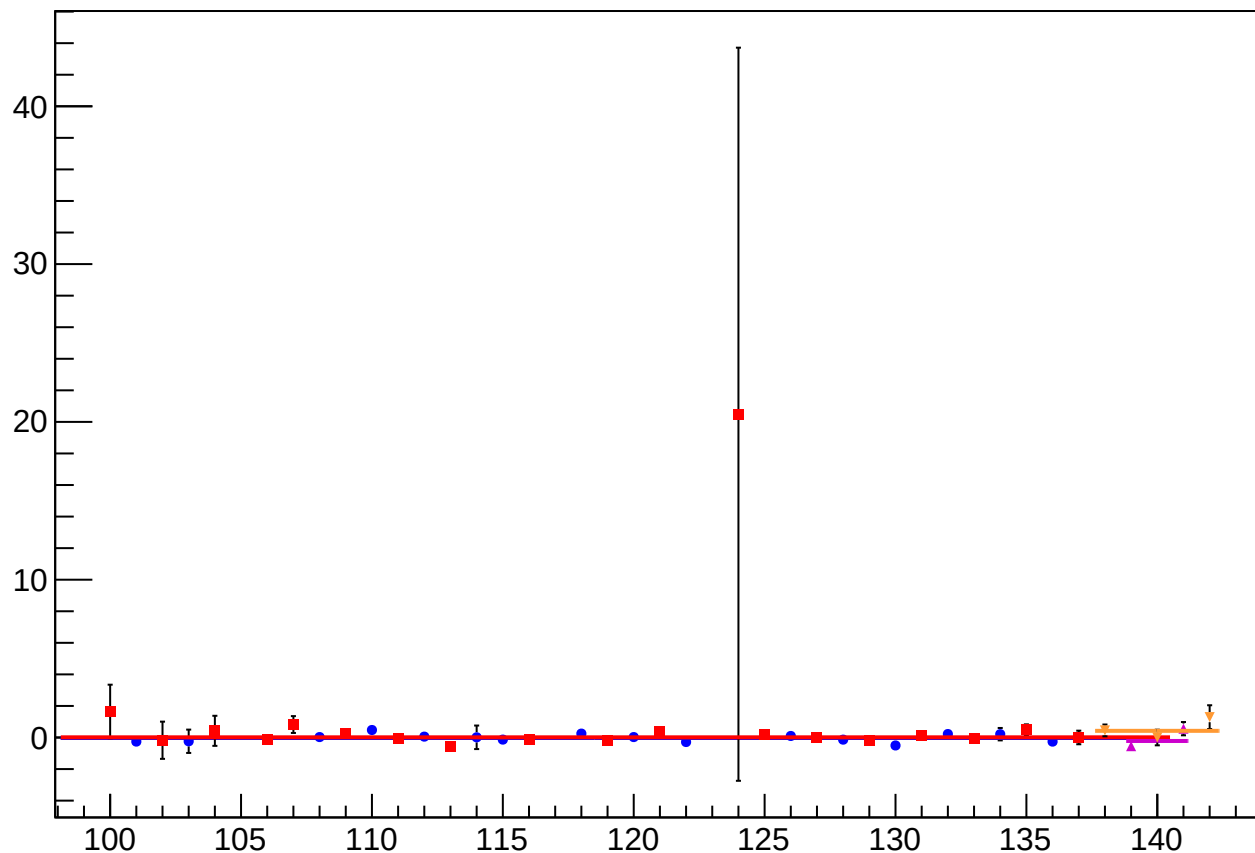
Right: 138.645 $\pm$ 0.029 χ^2 /NDF: 3386693.8/34

In: 152.705 $\pm$ 0.040 χ^2 /NDF:2016916.0/17

Out: 143.204 $\pm$ 0.039 χ^2 /NDF:3909295.2/21

All: 147.896 $\pm$ 0.028 χ^2 /NDF: 5955285.4/39

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.029 ± 0.058 χ^2/NDF : 17.2/15

Left Out: 0.423 ± 0.278 χ^2/NDF : 2.1/2

Right Out: 0.011 ± 0.057 χ^2/NDF : 21.8/18

Left In: -0.220 ± 0.229 χ^2/NDF : 4.9/1

Left: 0.040 ± 0.177 χ^2/NDF : 10.1/4

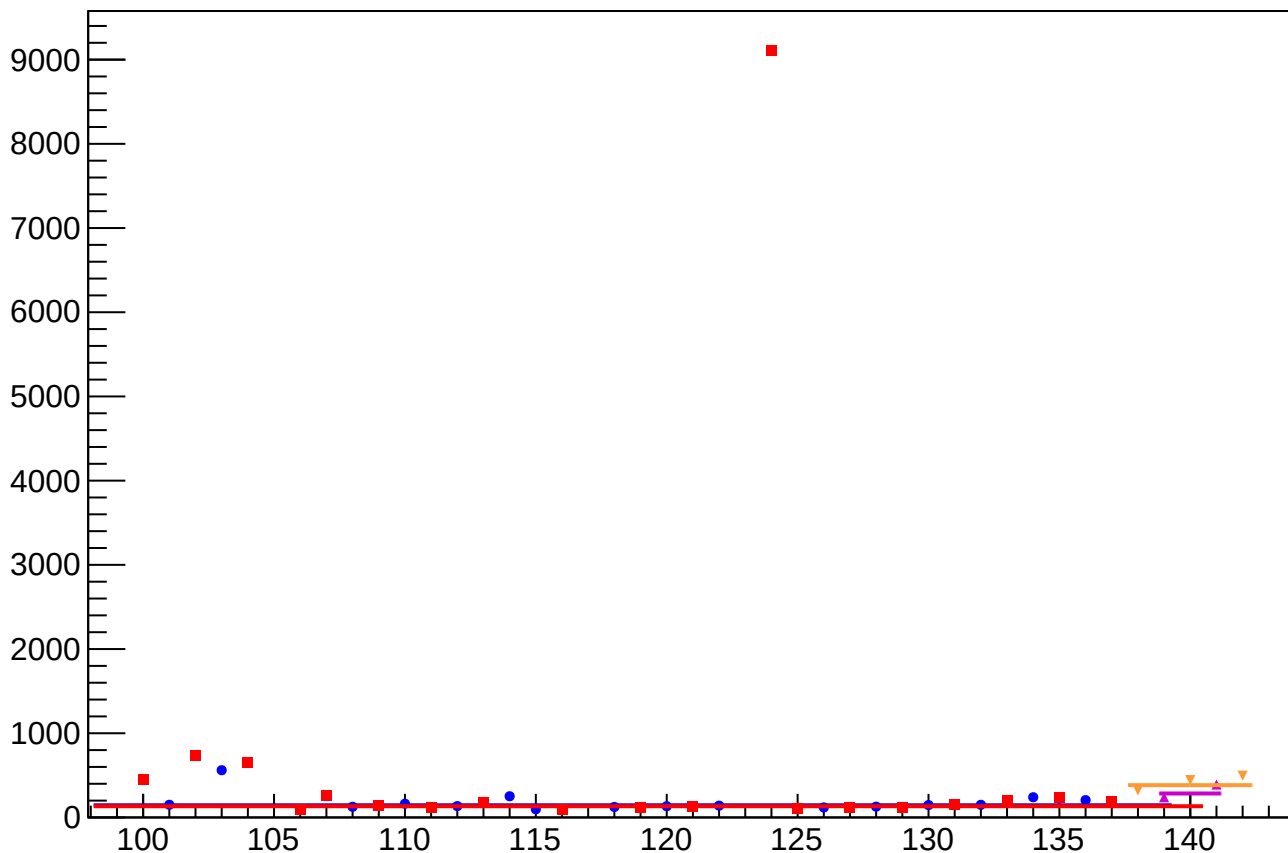
Right: -0.009 ± 0.040 χ^2/NDF : 39.3/34

In: -0.040 ± 0.056 χ^2/NDF : 22.8/17

Out: 0.027 ± 0.055 χ^2/NDF : 26.0/21

All: -0.006 ± 0.039 χ^2/NDF : 49.5/39

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 144.291+/-0.041 χ^2/NDF : 1128779.2/15

Left Out: 383.556+/-0.196 χ^2/NDF :128903.5/2

Right Out: 133.253+/-0.040 χ^2/NDF : 2220645.6/18

Left In: 284.610+/-0.162 χ^2/NDF :181981.3/1

Left: 324.643+/-0.125 χ^2/NDF : 462015.2/4

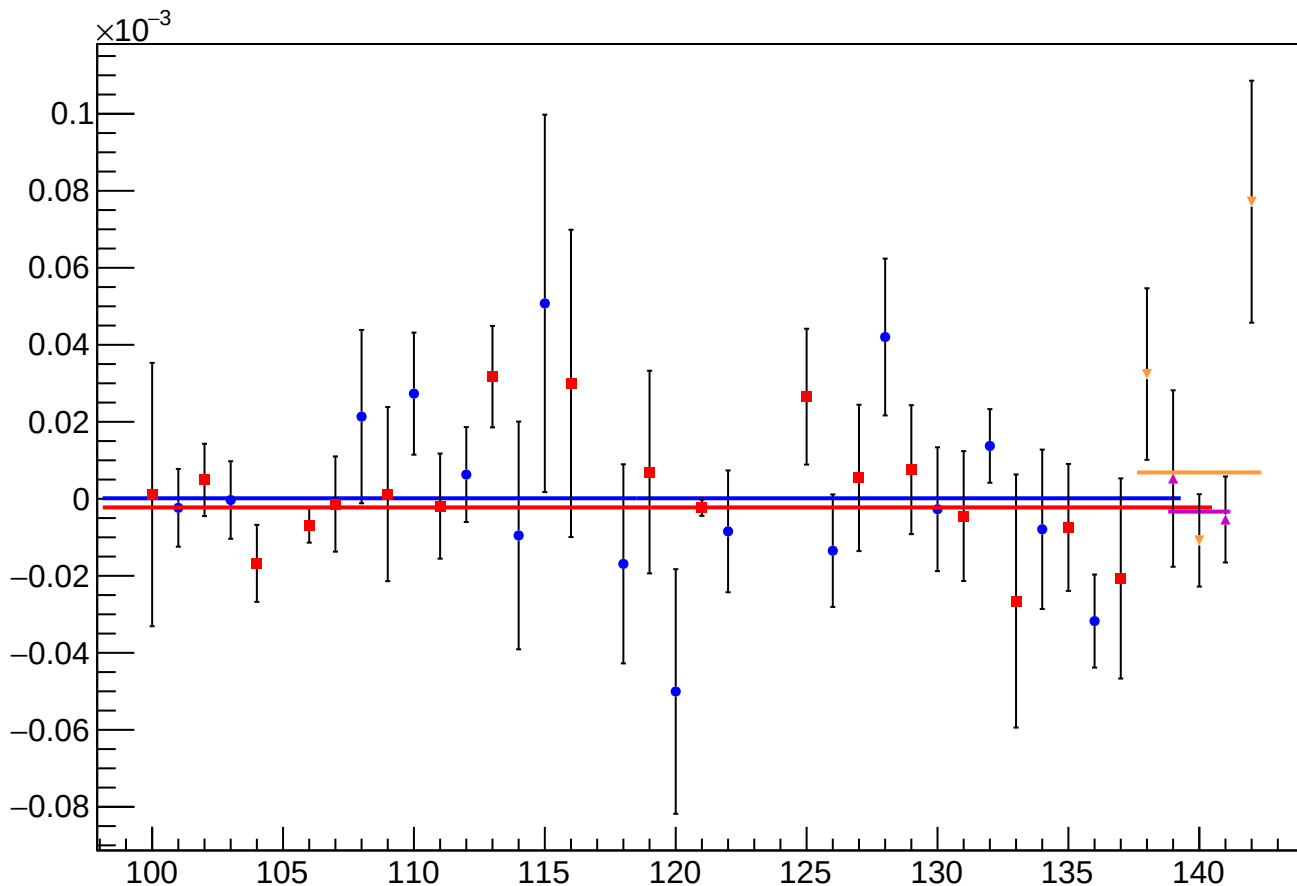
Right: 138.645+/-0.029 χ^2/NDF : 3386693.8/34

In: 152.705+/-0.040 χ^2/NDF :2016916.0/17

Out: 143.204+/-0.039 χ^2/NDF :3909295.2/21

All: 147.896+/-0.028 χ^2/NDF : 5955285.4/39

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 8.5/2

Right Out: -0.000+/-0.000 χ^2/NDF : 15.6/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.2/1

Left: 0.000+/-0.000 χ^2/NDF : 9.2/4

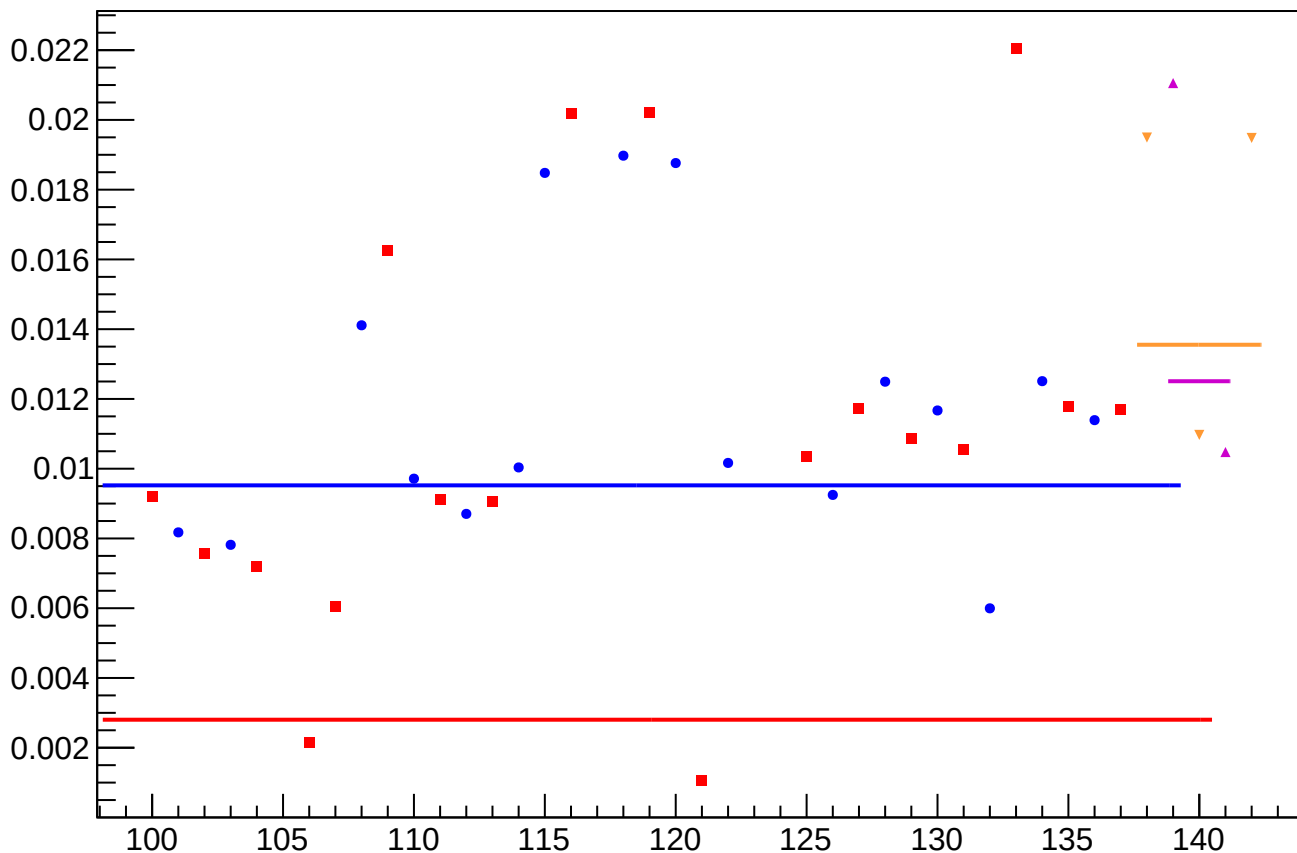
Right: -0.000+/-0.000 χ^2/NDF : 38.7/33

In: -0.000+/-0.000 χ^2/NDF : 23.1/17

Out: -0.000+/-0.000 χ^2/NDF : 24.9/20

All: -0.000+/-0.000 χ^2/NDF : 48.1/38

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1132946.4/15

Left Out: 0.014+/-0.000 χ^2/NDF :306289.2/2

Right Out: 0.003+/-0.000 χ^2/NDF : 8568874.3/17

Left In: 0.013+/-0.000 χ^2/NDF :344325.0/1

Left: 0.013+/-0.000 χ^2/NDF : 661493.9/4

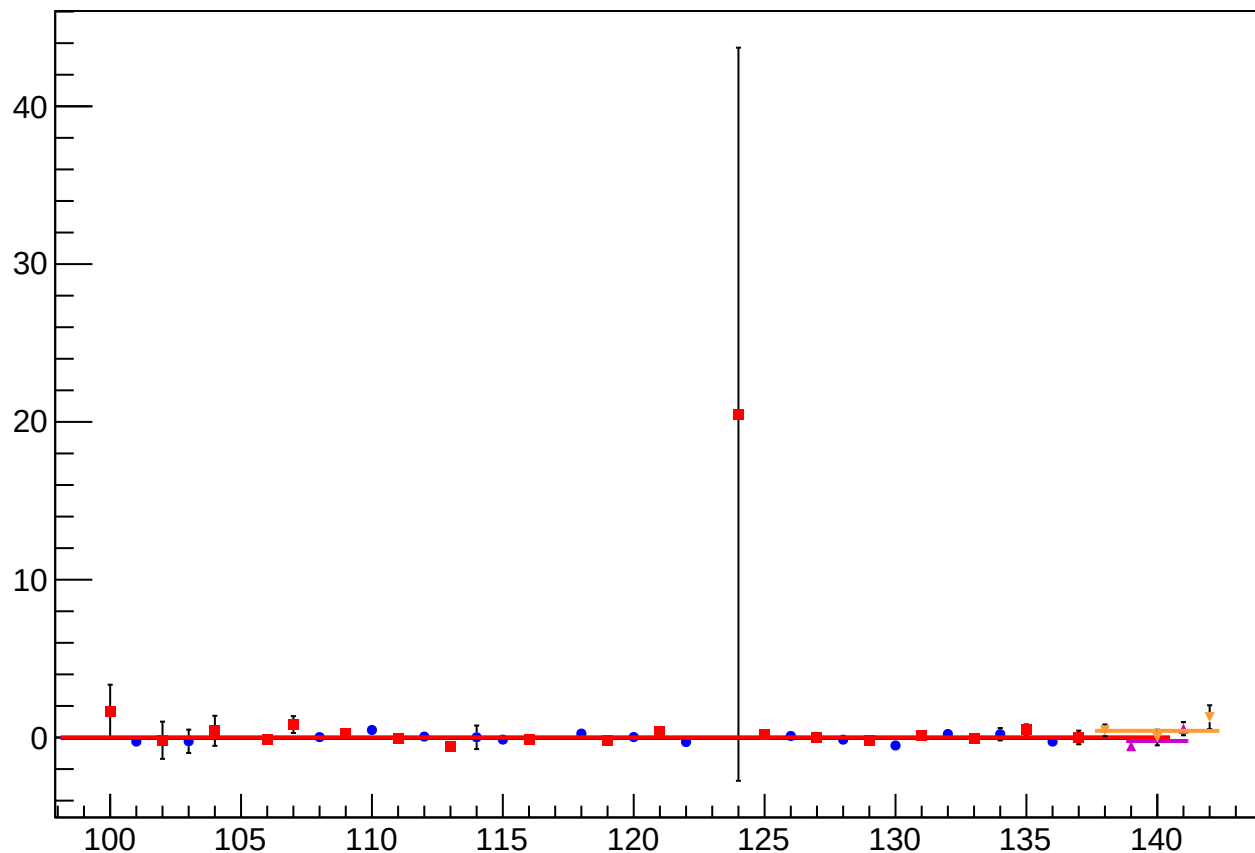
Right: 0.004+/-0.000 χ^2/NDF : 15020072.2/33

In: 0.010+/-0.000 χ^2/NDF :1632550.2/17

Out: 0.003+/-0.000 χ^2/NDF :11115838.4/20

All: 0.004+/-0.000 χ^2/NDF : 18796262.3/38

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.029 ± 0.058 χ^2/NDF : 17.2/15

Left Out: 0.423 ± 0.278 χ^2/NDF : 2.1/2

Right Out: 0.011 ± 0.057 χ^2/NDF : 21.8/18

Left In: -0.220 ± 0.229 χ^2/NDF : 4.9/1

Left: 0.040 ± 0.177 χ^2/NDF : 10.1/4

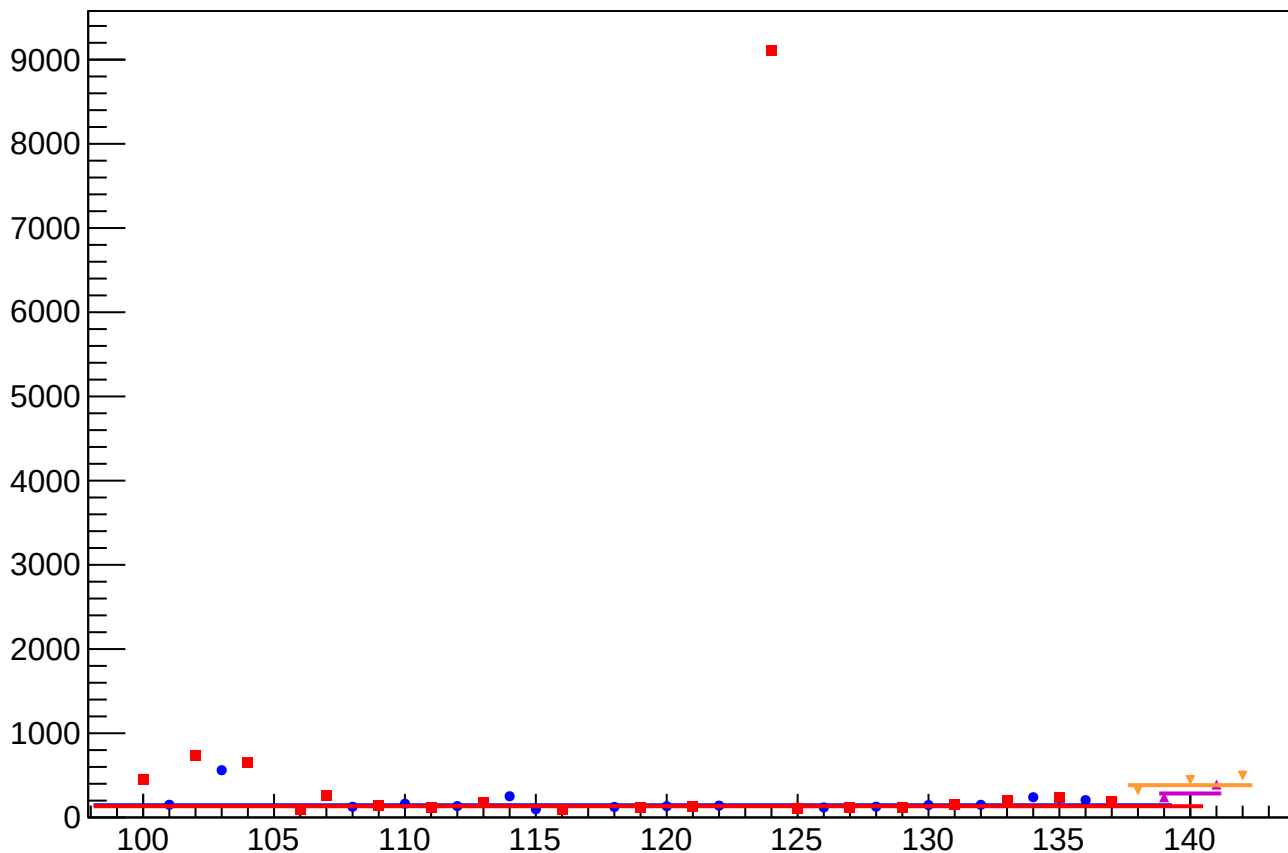
Right: -0.009 ± 0.040 χ^2/NDF : 39.3/34

In: -0.040 ± 0.056 χ^2/NDF : 22.8/17

Out: 0.027 ± 0.055 χ^2/NDF : 26.0/21

All: -0.006 ± 0.039 χ^2/NDF : 49.5/39

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 144.289+/-0.041 χ^2/NDF : 1128804.3/15

Left Out: 383.559+/-0.196 χ^2/NDF :128912.4/2

Right Out: 133.253+/-0.040 χ^2/NDF : 2220606.0/18

Left In: 284.616+/-0.162 χ^2/NDF :181971.0/1

Left: 324.649+/-0.125 χ^2/NDF : 461998.4/4

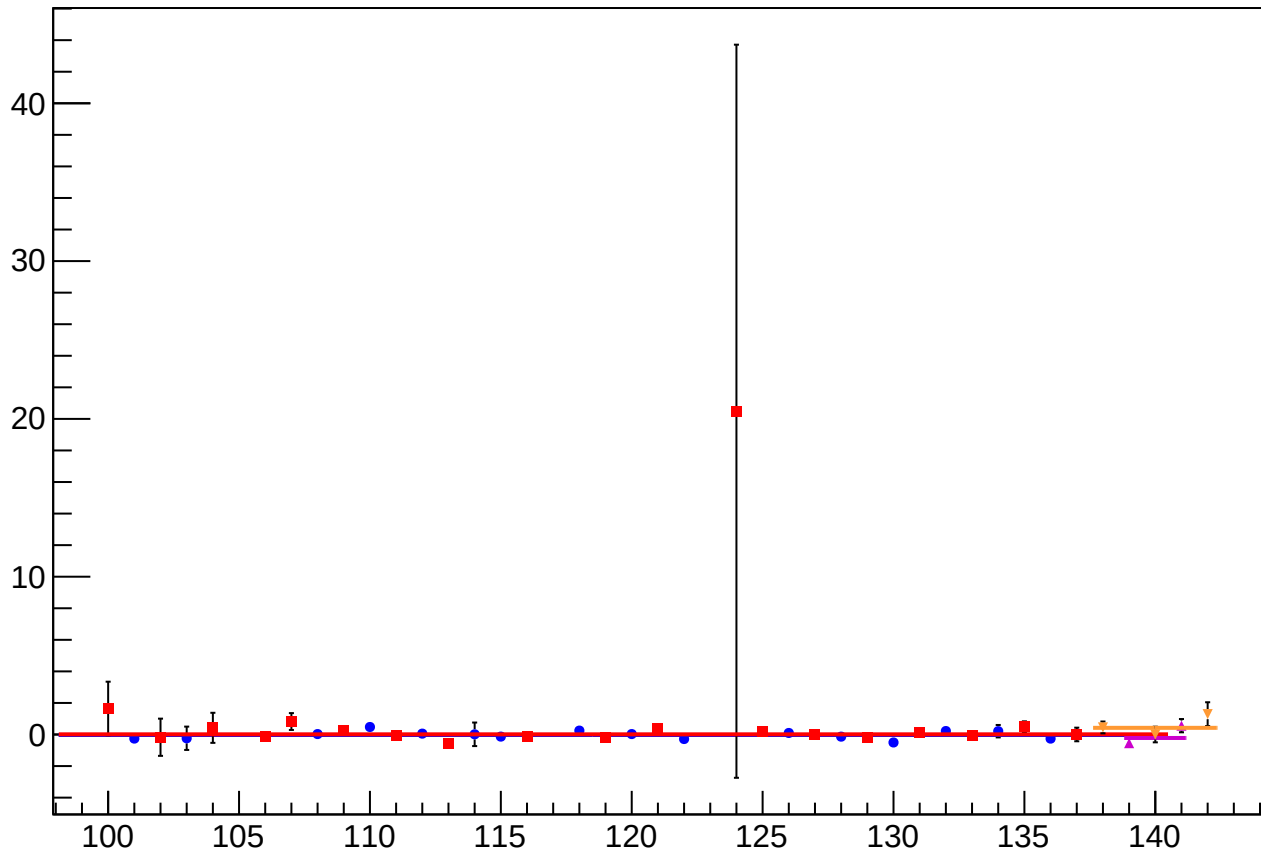
Right: 138.644+/-0.029 χ^2/NDF : 3386673.9/34

In: 152.704+/-0.040 χ^2/NDF :2016984.8/17

Out: 143.203+/-0.039 χ^2/NDF :3909286.9/21

All: 147.895+/-0.028 χ^2/NDF : 5955341.9/39

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.029 ± 0.058 $\chi^2/\text{NDF}: 17.2/15$

Left Out: 0.423 ± 0.278 $\chi^2/\text{NDF}: 2.1/2$

Right Out: 0.011 ± 0.057 $\chi^2/\text{NDF}: 21.8/18$

Left In: -0.220 ± 0.229 $\chi^2/\text{NDF}: 4.9/1$

Left: 0.040 ± 0.177 $\chi^2/\text{NDF}: 10.1/4$

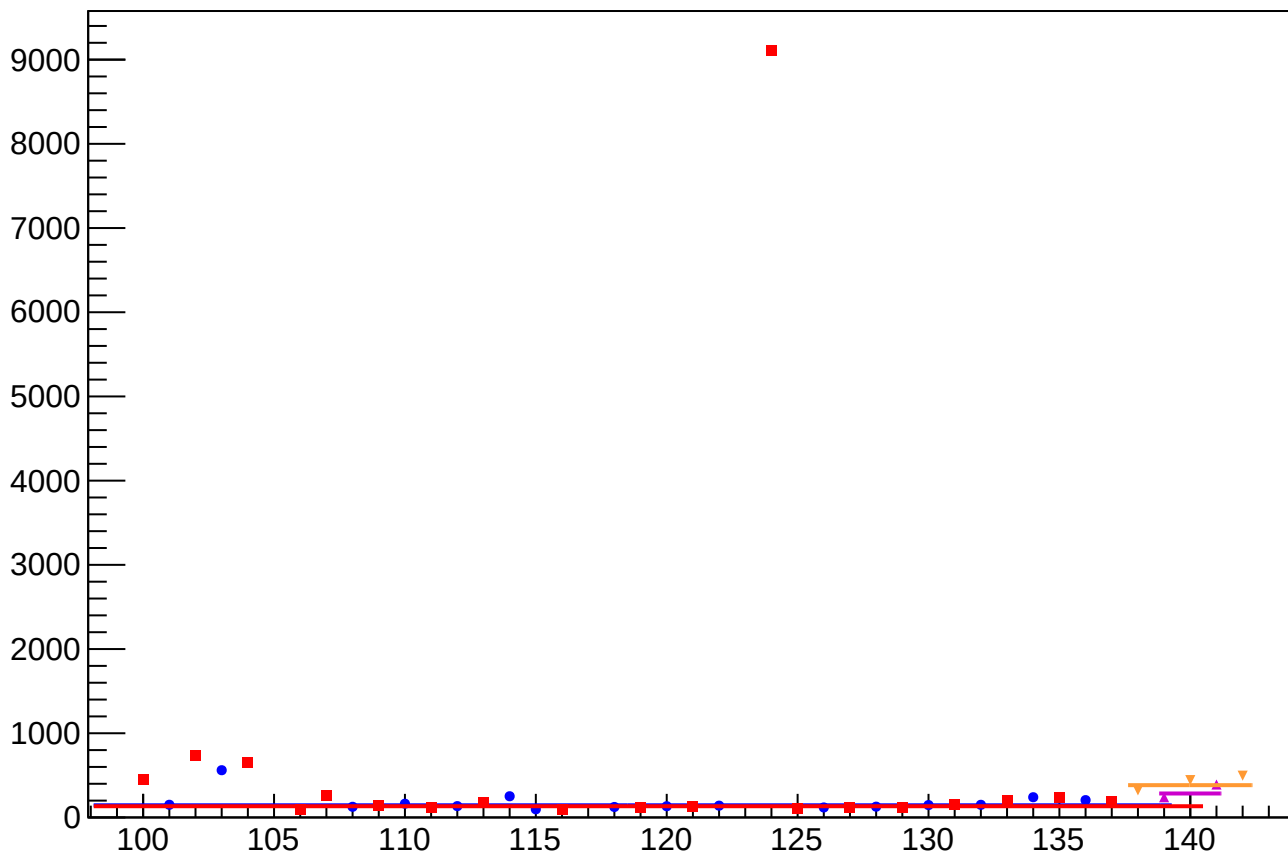
Right: -0.009 ± 0.040 $\chi^2/\text{NDF}: 39.3/34$

In: -0.040 ± 0.056 $\chi^2/\text{NDF}: 22.8/17$

Out: 0.027 ± 0.055 $\chi^2/\text{NDF}: 26.0/21$

All: -0.006 ± 0.039 $\chi^2/\text{NDF}: 49.5/39$

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 144.289+/-0.041 χ^2/NDF : 1128804.3/15

Left Out: 383.559+/-0.196 χ^2/NDF : 128912.4/2

Right Out: 133.253+/-0.040 χ^2/NDF : 2220606.0/18

Left In: 284.616+/-0.162 χ^2/NDF : 181971.0/1

Left: 324.649+/-0.125 χ^2/NDF : 461998.4/4

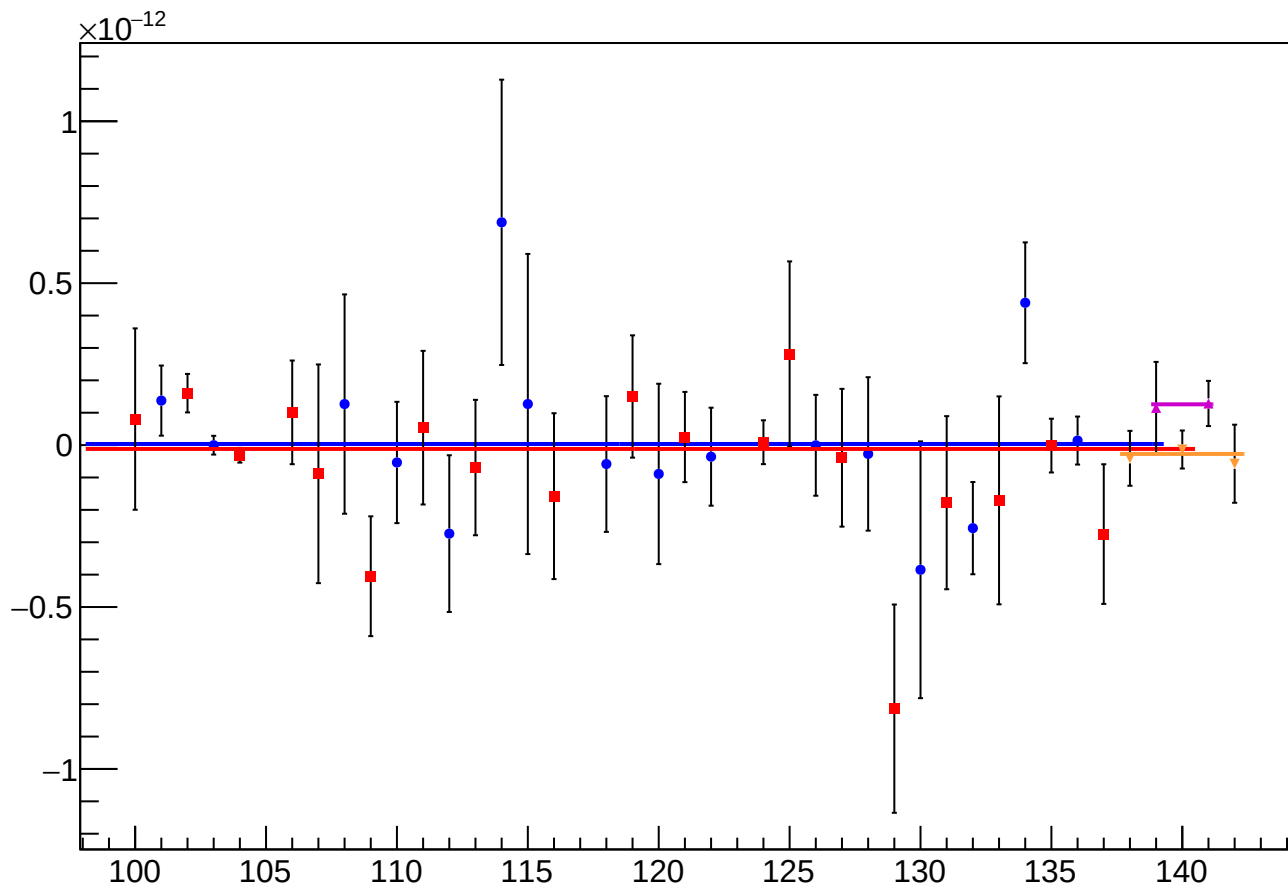
Right: 138.644+/-0.029 χ^2/NDF : 3386673.9/34

In: 152.704+/-0.040 χ^2/NDF : 2016984.8/17

Out: 143.203+/-0.039 χ^2/NDF : 3909286.9/21

All: 147.895+/-0.028 χ^2/NDF : 5955341.9/39

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.1/2

Right Out: -0.000+/-0.000 χ^2/NDF : 25.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 4.1/4

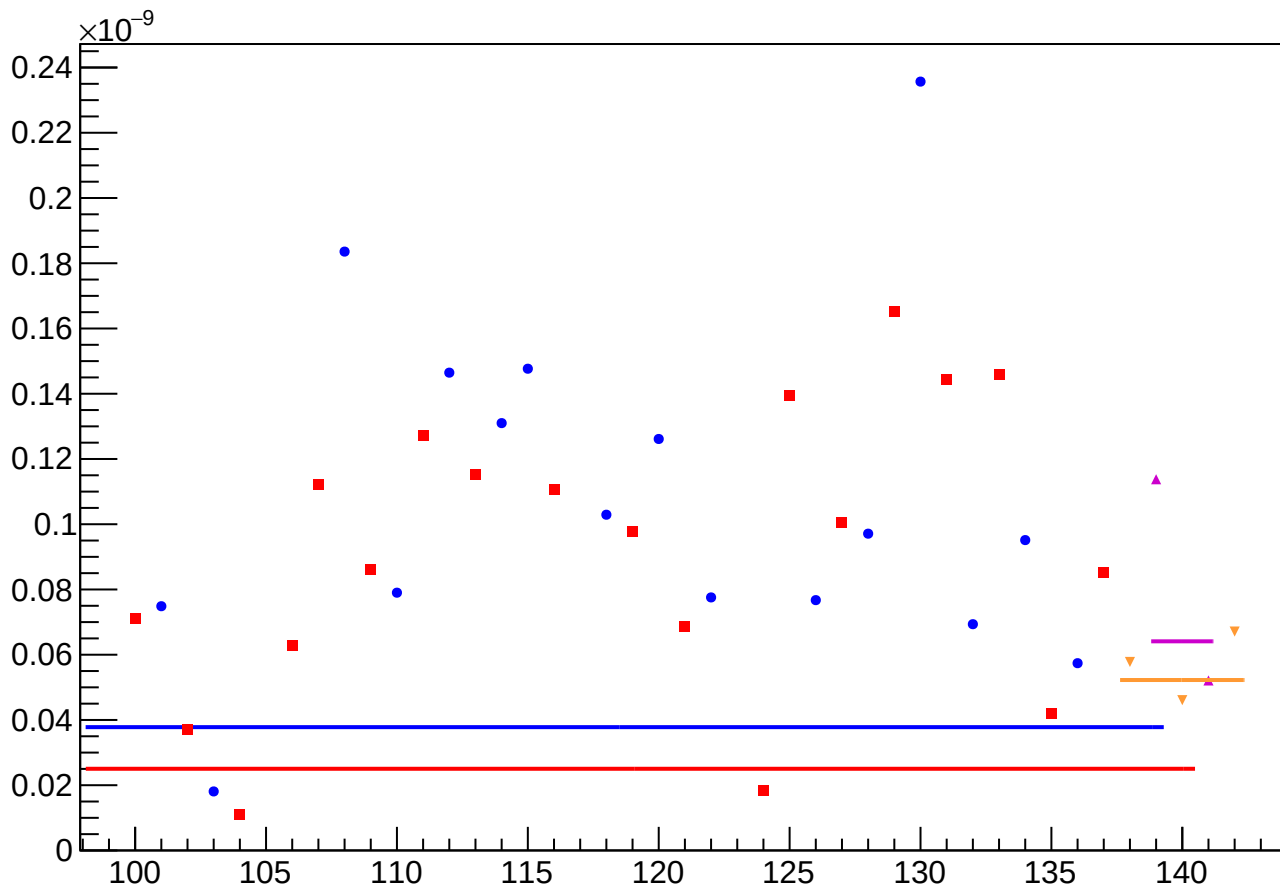
Right: -0.000+/-0.000 χ^2/NDF : 41.0/34

In: 0.000+/-0.000 χ^2/NDF : 19.0/17

Out: -0.000+/-0.000 χ^2/NDF : 25.4/21

All: -0.000+/-0.000 χ^2/NDF : 45.7/39

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3942675.2/15

Left Out: 0.000+/-0.000 χ^2/NDF :61034.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4701757.7/18

Left In: 0.000+/-0.000 χ^2/NDF :303958.4/1

Left: 0.000+/-0.000 χ^2/NDF : 412435.2/4

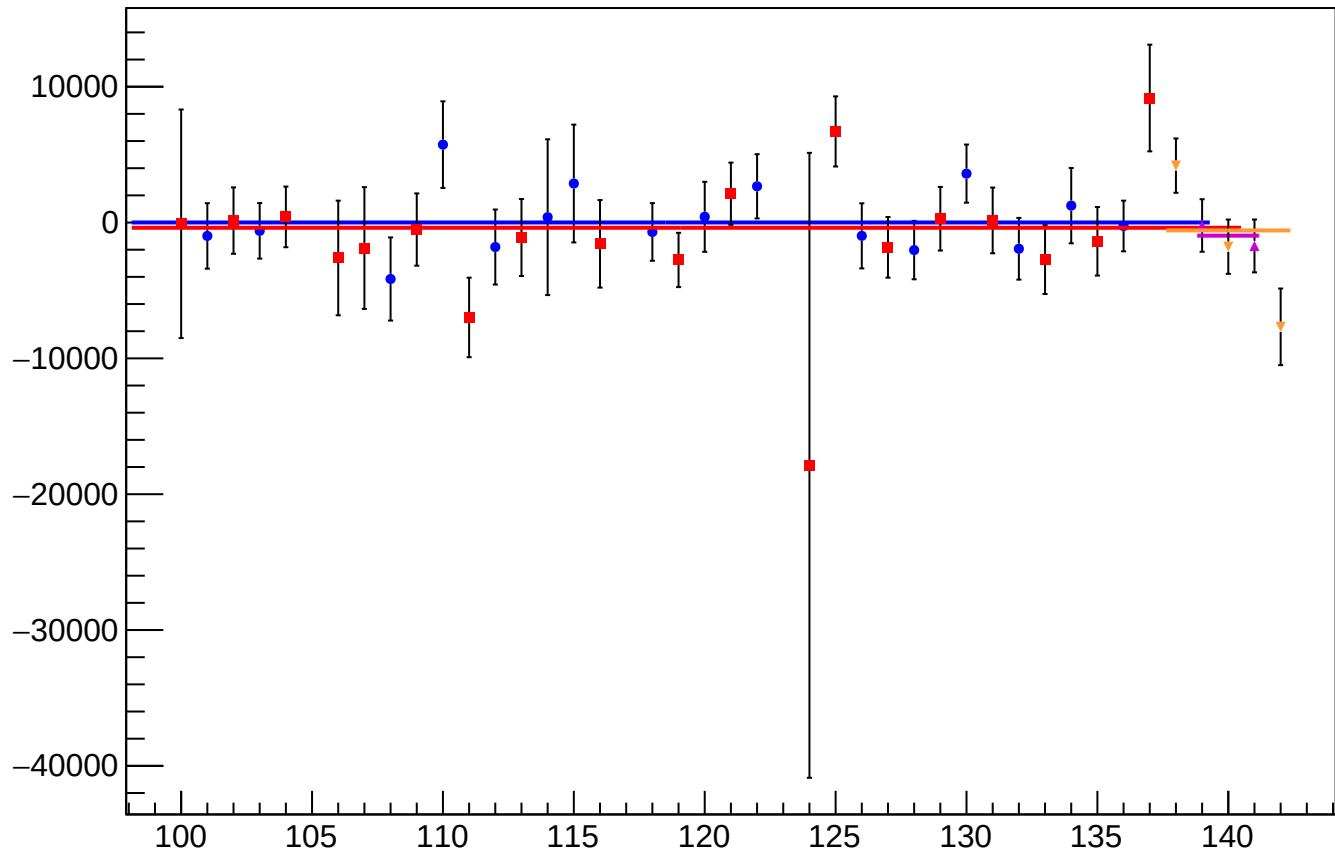
Right: 0.000+/-0.000 χ^2/NDF : 8999957.7/34

In: 0.000+/-0.000 χ^2/NDF :4554548.5/17

Out: 0.000+/-0.000 χ^2/NDF :5392456.8/21

All: 0.000+/-0.000 χ^2/NDF : 10318135.1/39

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 4.373 ± 619.905 $\chi^2/\text{NDF}: 12.4/15$

Left Out: -580.129 ± 1263.789 $\chi^2/\text{NDF}: 12.4/2$

Right Out: -384.758 ± 633.682 $\chi^2/\text{NDF}: 24.1/18$

Left In: -965.469 ± 1371.733 $\chi^2/\text{NDF}: 0.3/1$

Left: -757.043 ± 929.455 $\chi^2/\text{NDF}: 12.7/4$

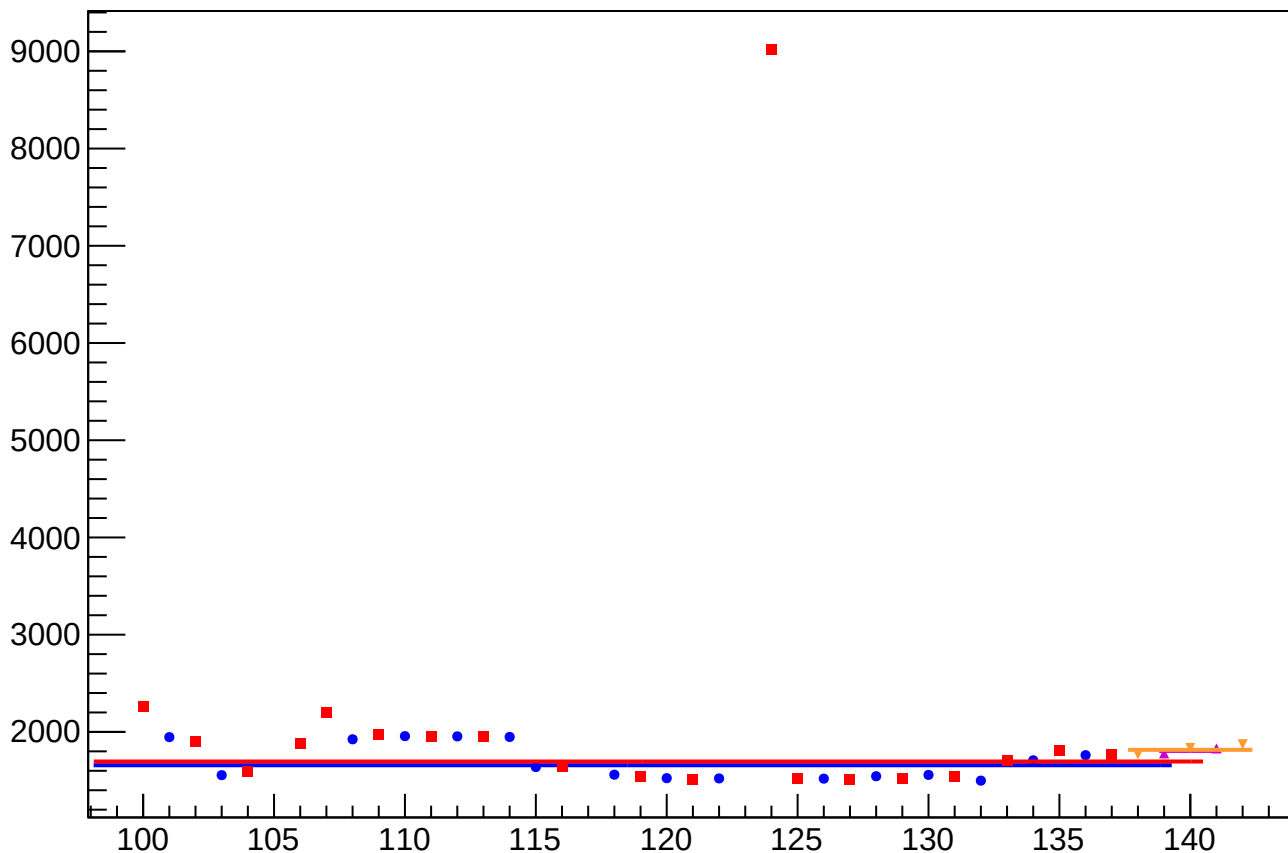
Right: -185.916 ± 443.130 $\chi^2/\text{NDF}: 36.7/34$

In: -160.104 ± 564.900 $\chi^2/\text{NDF}: 13.2/17$

Out: -424.009 ± 566.461 $\chi^2/\text{NDF}: 36.5/21$

All: -291.692 ± 399.995 $\chi^2/\text{NDF}: 49.7/39$

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1657.119+/-0.438 χ^2/NDF : 143982.4/15

Left Out: 1815.521+/-0.894 χ^2/NDF : 2195.7/2

Right Out: 1695.649+/-0.446 χ^2/NDF : 386216.2/18

Left In: 1804.585+/-0.970 χ^2/NDF : 692.4/1

Left: 1810.500+/-0.657 χ^2/NDF : 2956.9/4

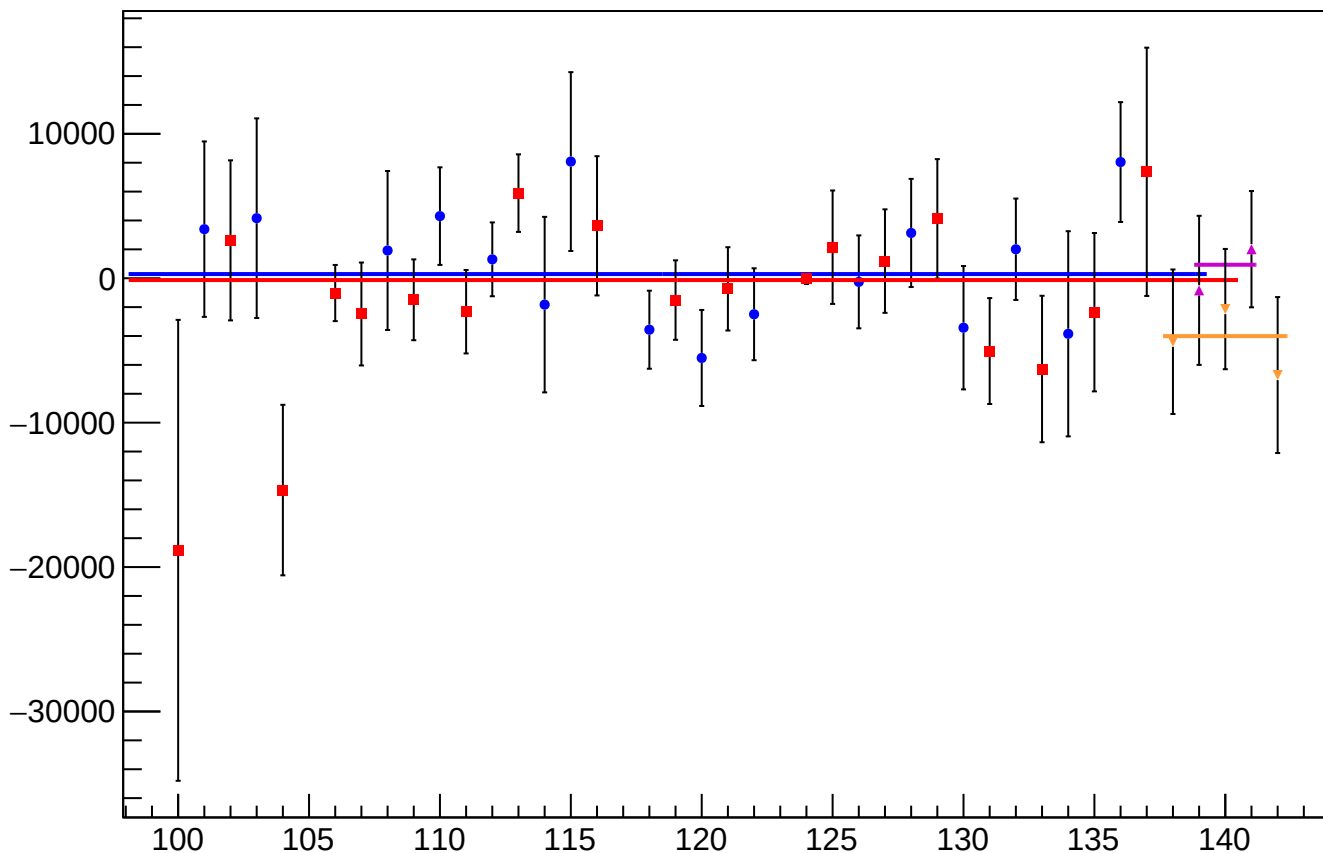
Right: 1676.049+/-0.313 χ^2/NDF : 533994.7/34

In: 1682.128+/-0.399 χ^2/NDF : 163869.0/17

Out: 1719.555+/-0.399 χ^2/NDF : 402817.1/21

All: 1700.859+/-0.282 χ^2/NDF : 571079.7/39

asym_atl_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 289.262 $\pm$ 961.071 χ^2 /NDF: 15.2/15

Left Out: -4007.910 $\pm$ 2753.341 χ^2 /NDF:0.5/2

Right Out: -125.586 $\pm$ 323.715 χ^2 /NDF: 20.8/18

Left In: 934.344 $\pm$ 3174.353 χ^2 /NDF:0.2/1

Left: -1886.043 $\pm$ 2079.945 χ^2 /NDF: 2.0/4

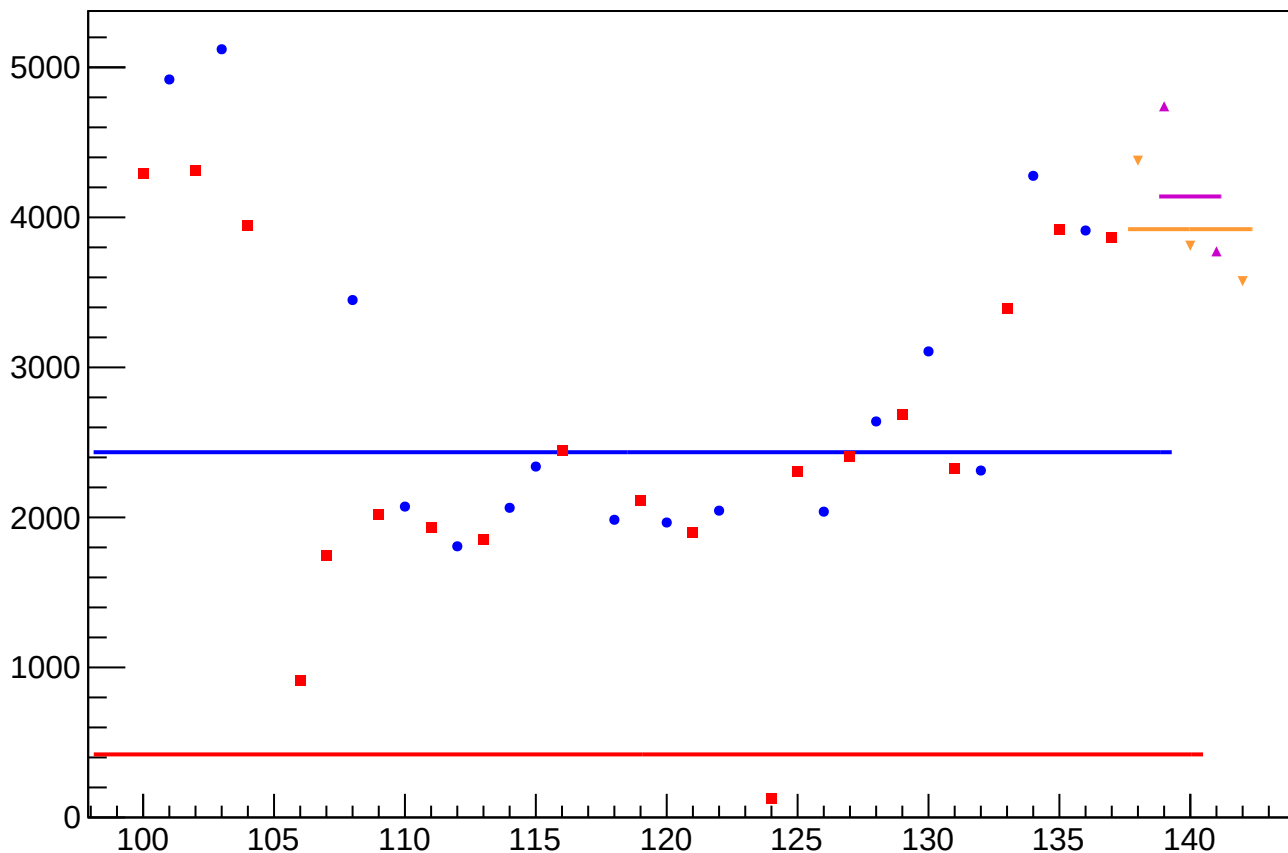
Right: -83.316 $\pm$ 306.780 χ^2 /NDF: 36.2/34

In: 343.428 $\pm$ 919.837 χ^2 /NDF:15.5/17

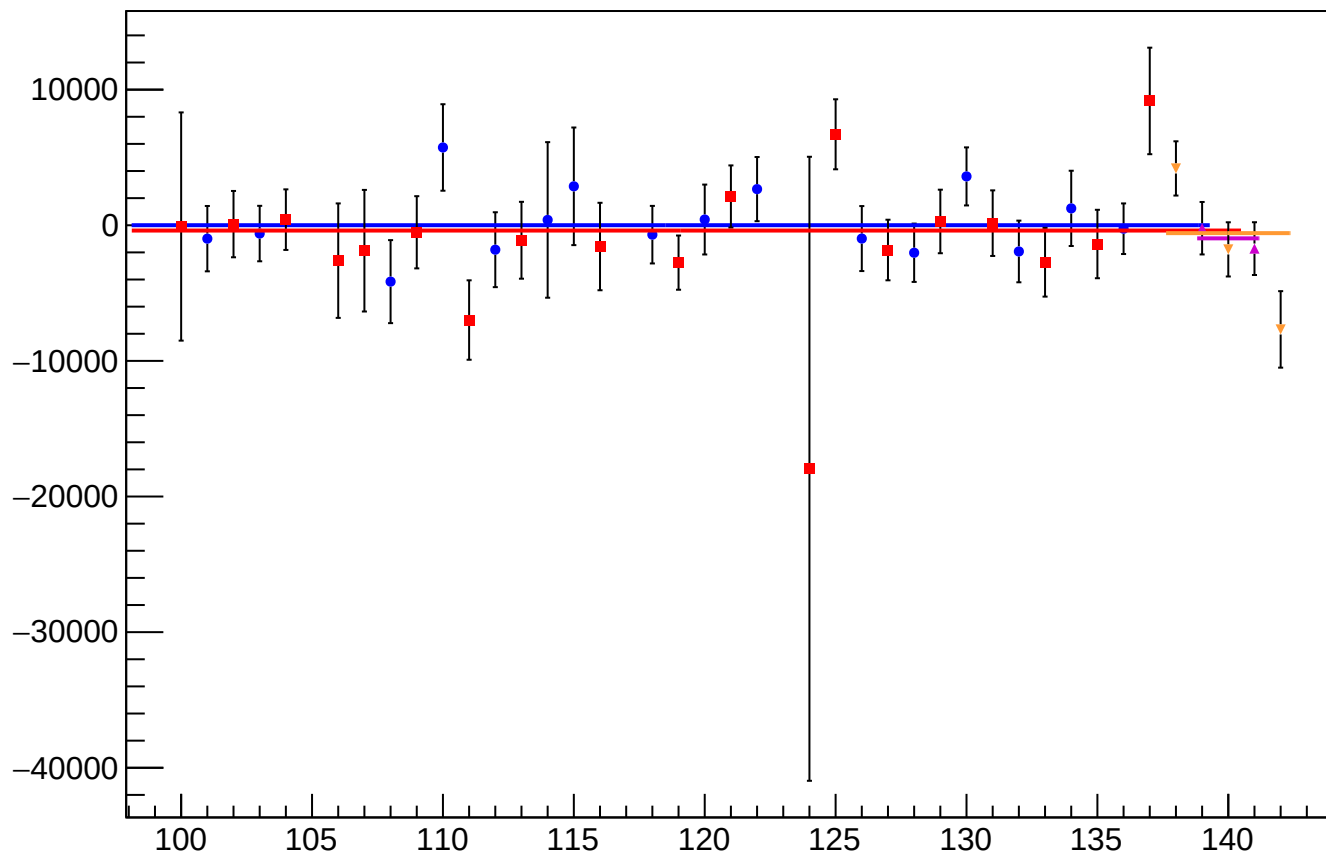
Out: -178.520 $\pm$ 321.500 χ^2 /NDF:23.3/21

All: -121.698 $\pm$ 303.496 χ^2 /NDF: 39.0/39

asym_atl_dd_reg_correction_rms vs Slug, Sign Corrected



cor_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 4.295 ± 619.905 $\chi^2/\text{NDF}: 12.4/15$

Left Out: -580.301 ± 1263.789 $\chi^2/\text{NDF}: 12.4/2$

Right Out: -389.054 ± 633.688 $\chi^2/\text{NDF}: 24.0/18$

Left In: -965.124 ± 1371.733 $\chi^2/\text{NDF}: 0.3/1$

Left: -756.977 ± 929.455 $\chi^2/\text{NDF}: 12.7/4$

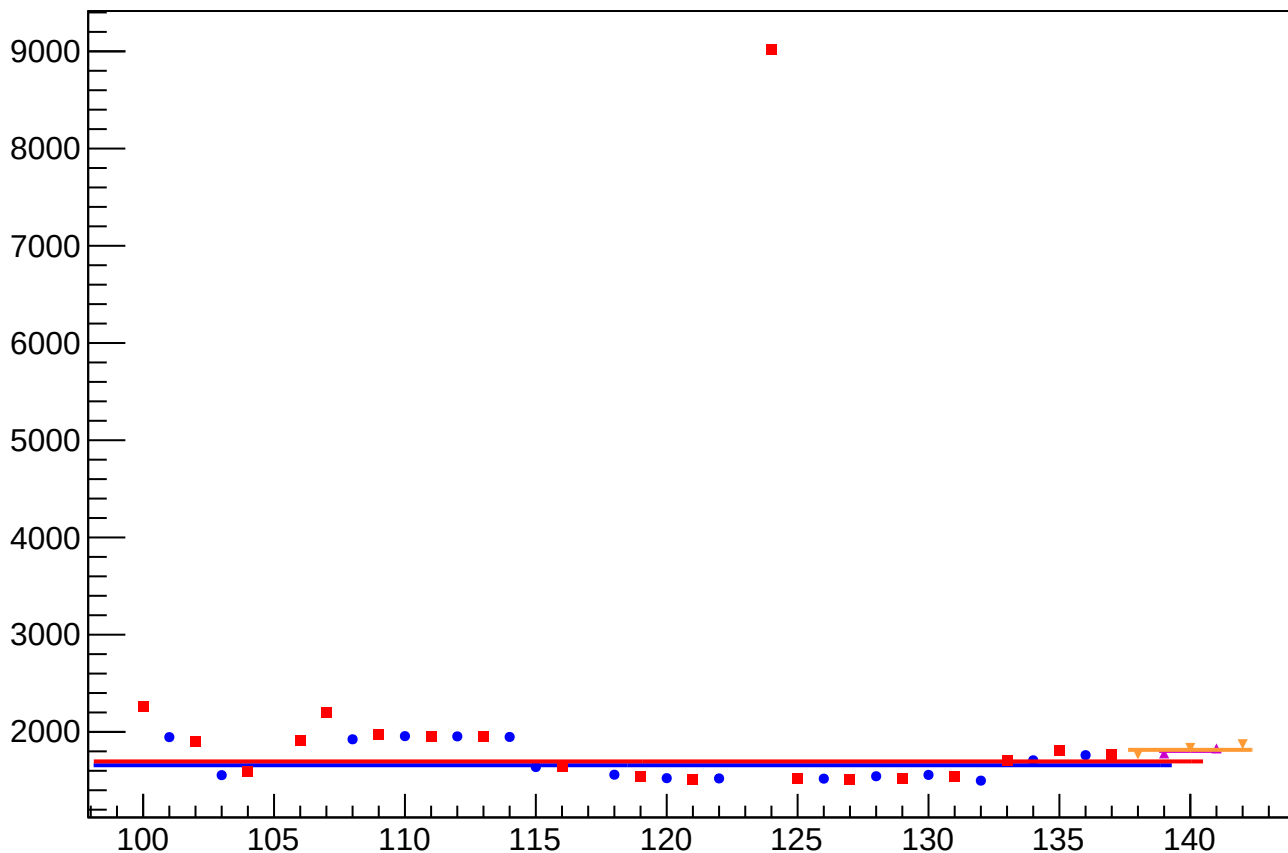
Right: -188.056 ± 443.132 $\chi^2/\text{NDF}: 36.7/34$

In: -160.110 ± 564.900 $\chi^2/\text{NDF}: 13.2/17$

Out: -427.477 ± 566.466 $\chi^2/\text{NDF}: 36.4/21$

All: -293.424 ± 399.997 $\chi^2/\text{NDF}: 49.7/39$

cor_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1657.119+/-0.438 χ^2/NDF : 143982.5/15

Left Out: 1815.521+/-0.894 χ^2/NDF : 2195.7/2

Right Out: 1696.442+/-0.446 χ^2/NDF : 387974.4/18

Left In: 1804.585+/-0.970 χ^2/NDF : 692.4/1

Left: 1810.500+/-0.657 χ^2/NDF : 2956.9/4

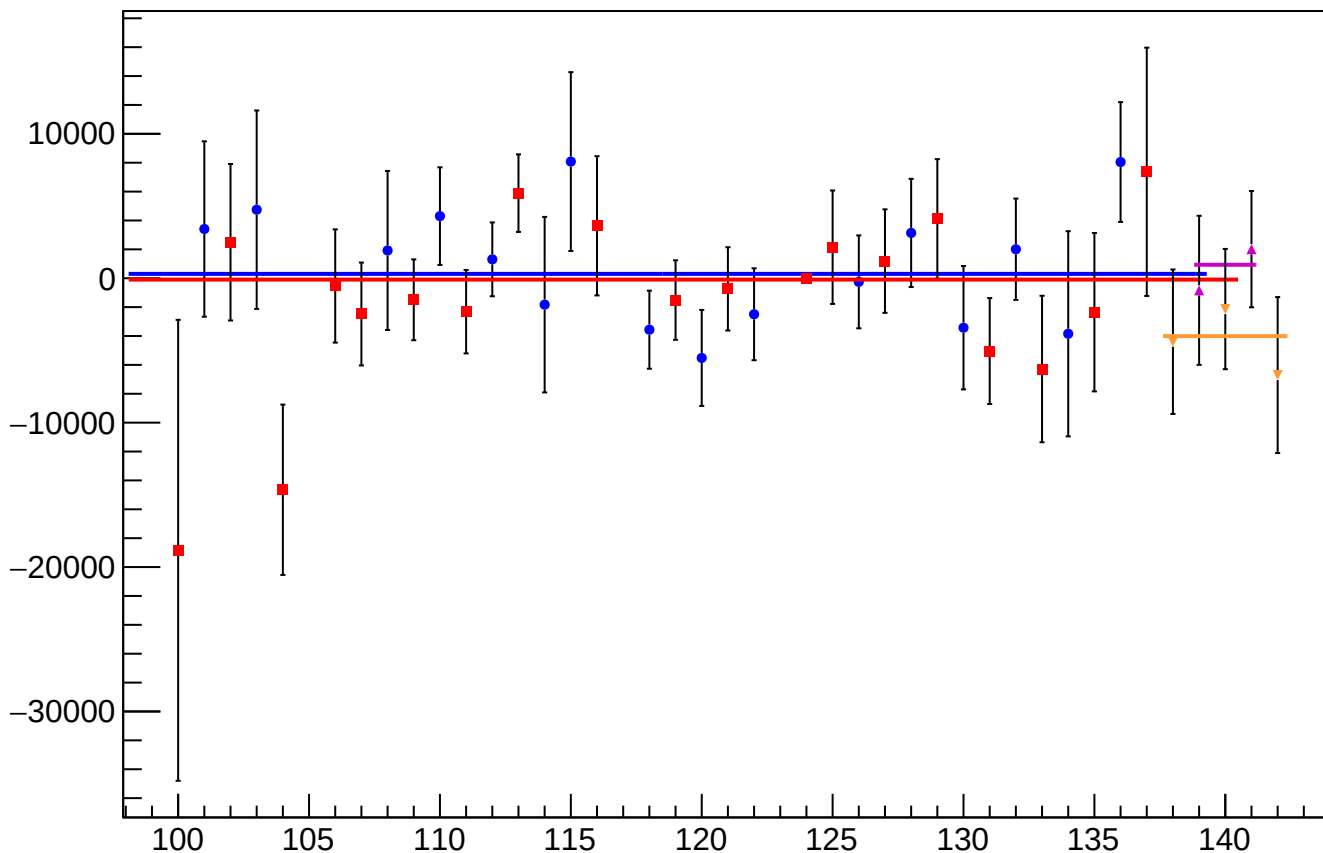
Right: 1676.430+/-0.313 χ^2/NDF : 535909.0/34

In: 1682.128+/-0.399 χ^2/NDF : 163869.0/17

Out: 1720.208+/-0.399 χ^2/NDF : 404382.5/21

All: 1701.178+/-0.282 χ^2/NDF : 572798.3/39

asym_atl_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 301.839+/-960.952 χ^2/NDF : 15.3/15

Left Out: -4008.146+/-2753.346 χ^2/NDF : 0.5/2

Right Out: -92.243+/-315.757 χ^2/NDF : 20.6/18

Left In: 934.502+/-3174.344 χ^2/NDF : 0.2/1

Left: -1886.099+/-2079.944 χ^2/NDF : 2.0/4

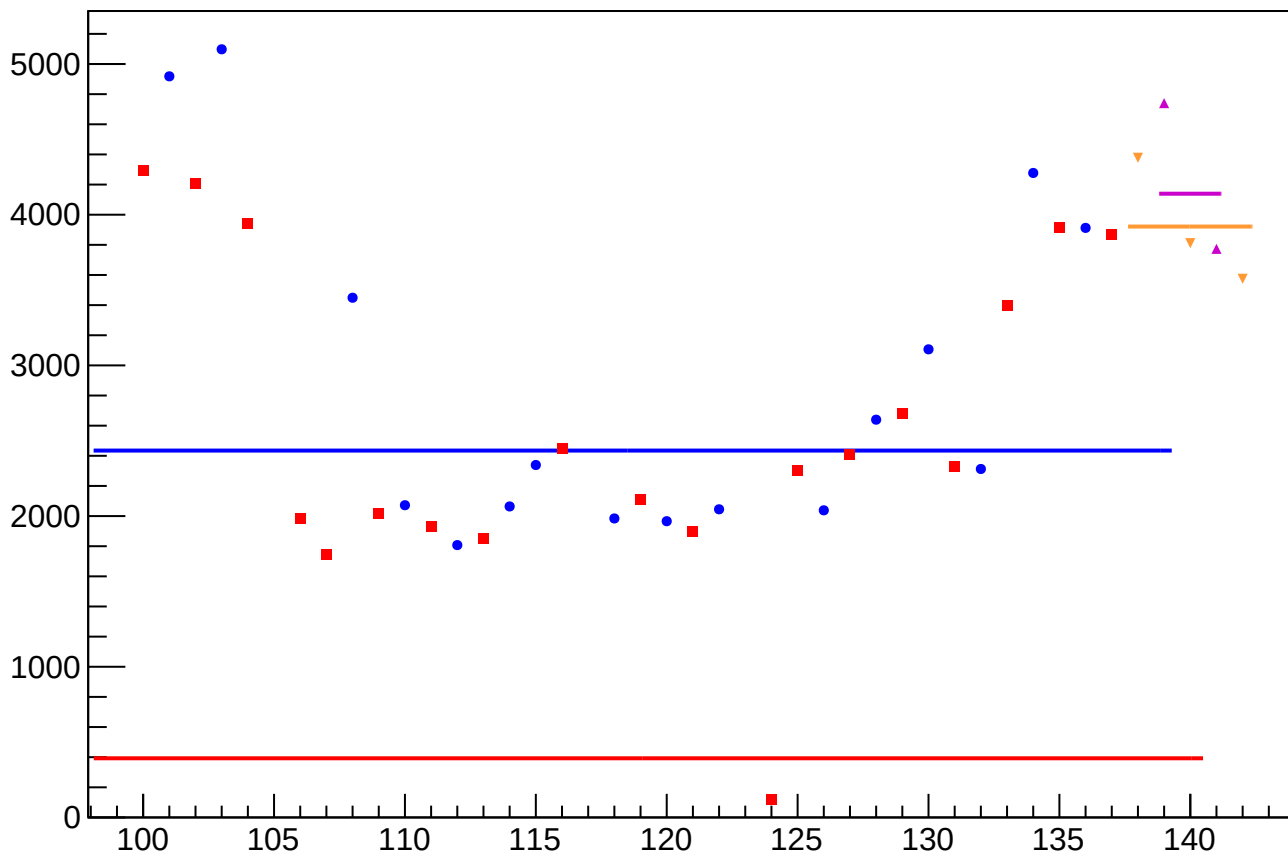
Right: -53.840+/-299.978 χ^2/NDF : 36.1/34

In: 354.950+/-919.733 χ^2/NDF : 15.6/17

Out: -143.075+/-313.701 χ^2/NDF : 23.1/21

All: -91.176+/-296.906 χ^2/NDF : 38.9/39

asym_atl_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 2434.758+/-0.679

χ^2/NDF : 1456027.7/15

Left Out: 3921.327+/-1.947

χ^2/NDF : 26292.9/2

Right Out: 392.666+/-0.223

χ^2/NDF : 11408006.3/18

Left In: 4139.366+/-2.245

χ^2/NDF : 43638.0/1

Left: 4014.939+/-1.471

χ^2/NDF : 75315.7/4

Right: 591.664+/-0.212

χ^2/NDF : 21015754.2/34

In: 2577.858+/-0.650

χ^2/NDF : 2027977.8/17

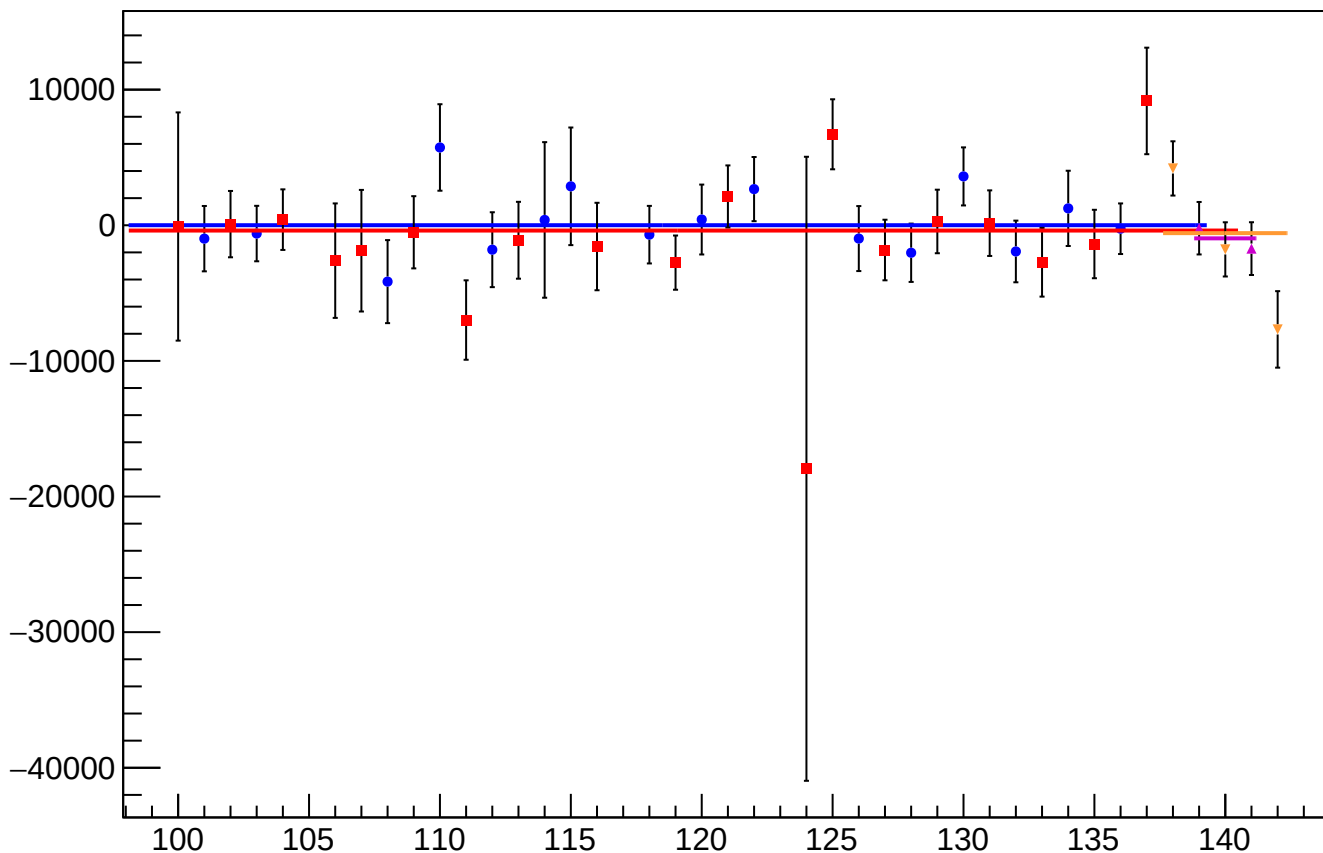
Out: 438.471+/-0.222

χ^2/NDF : 14676606.3/21

All: 661.419+/-0.210

χ^2/NDF : 26398315.3/39

eigen_cor_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 4.295 ± 619.905 χ^2/NDF : 12.4/15

Left Out: -580.301 ± 1263.789 χ^2/NDF : 12.4/2

Right Out: -389.054 ± 633.688 χ^2/NDF : 24.0/18

Left In: -965.124 ± 1371.733 χ^2/NDF : 0.3/1

Left: -756.977 ± 929.455 χ^2/NDF : 12.7/4

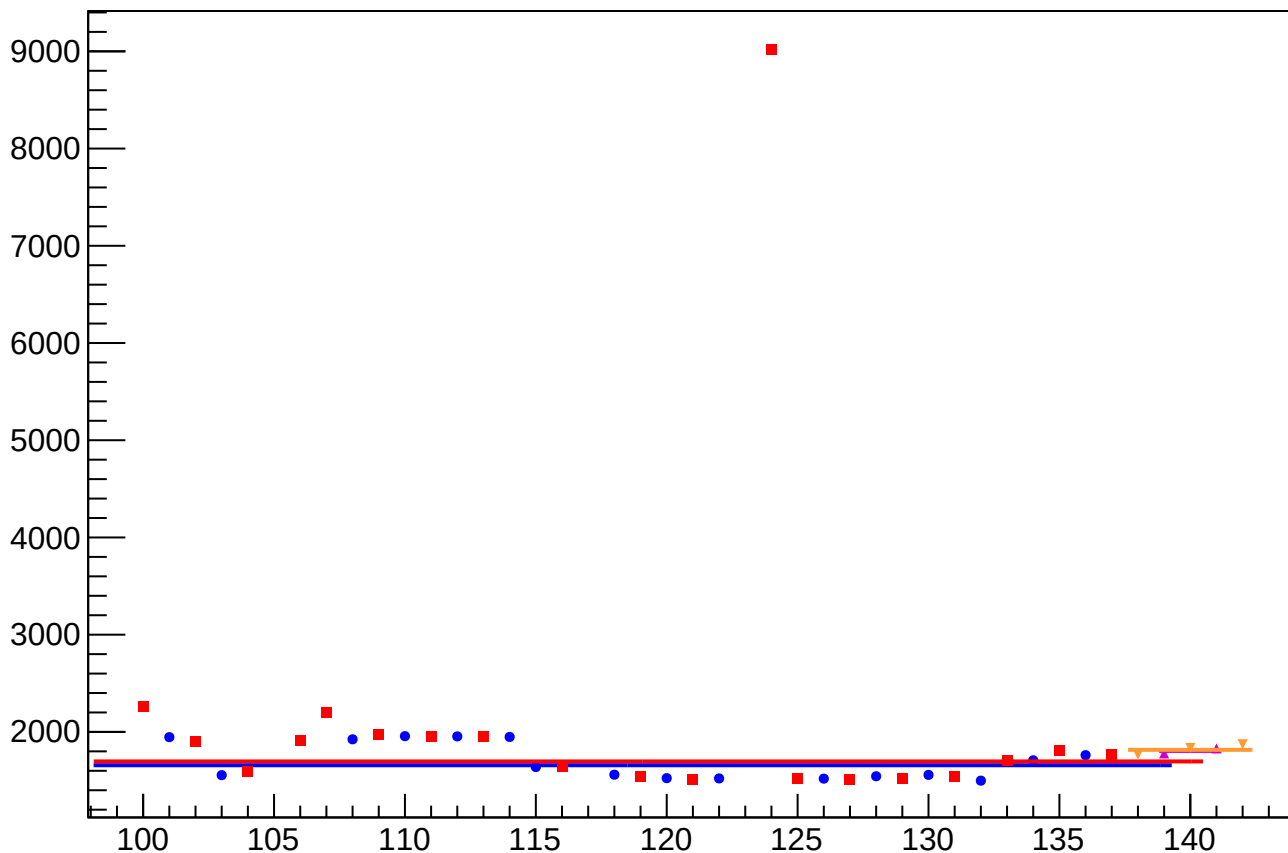
Right: -188.056 ± 443.132 χ^2/NDF : 36.7/34

In: -160.110 ± 564.900 χ^2/NDF : 13.2/17

Out: -427.477 ± 566.466 χ^2/NDF : 36.4/21

All: -293.424 ± 399.997 χ^2/NDF : 49.7/39

eigen_cor_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1657.119 $\pm$ 0.438 χ^2 /NDF: 143982.5/15

Left Out: 1815.521 $\pm$ 0.894 χ^2 /NDF: 2195.7/2

Right Out: 1696.442 $\pm$ 0.446 χ^2 /NDF: 387974.4/18

Left In: 1804.585 $\pm$ 0.970 χ^2 /NDF: 692.4/1

Left: 1810.500 $\pm$ 0.657 χ^2 /NDF: 2956.9/4

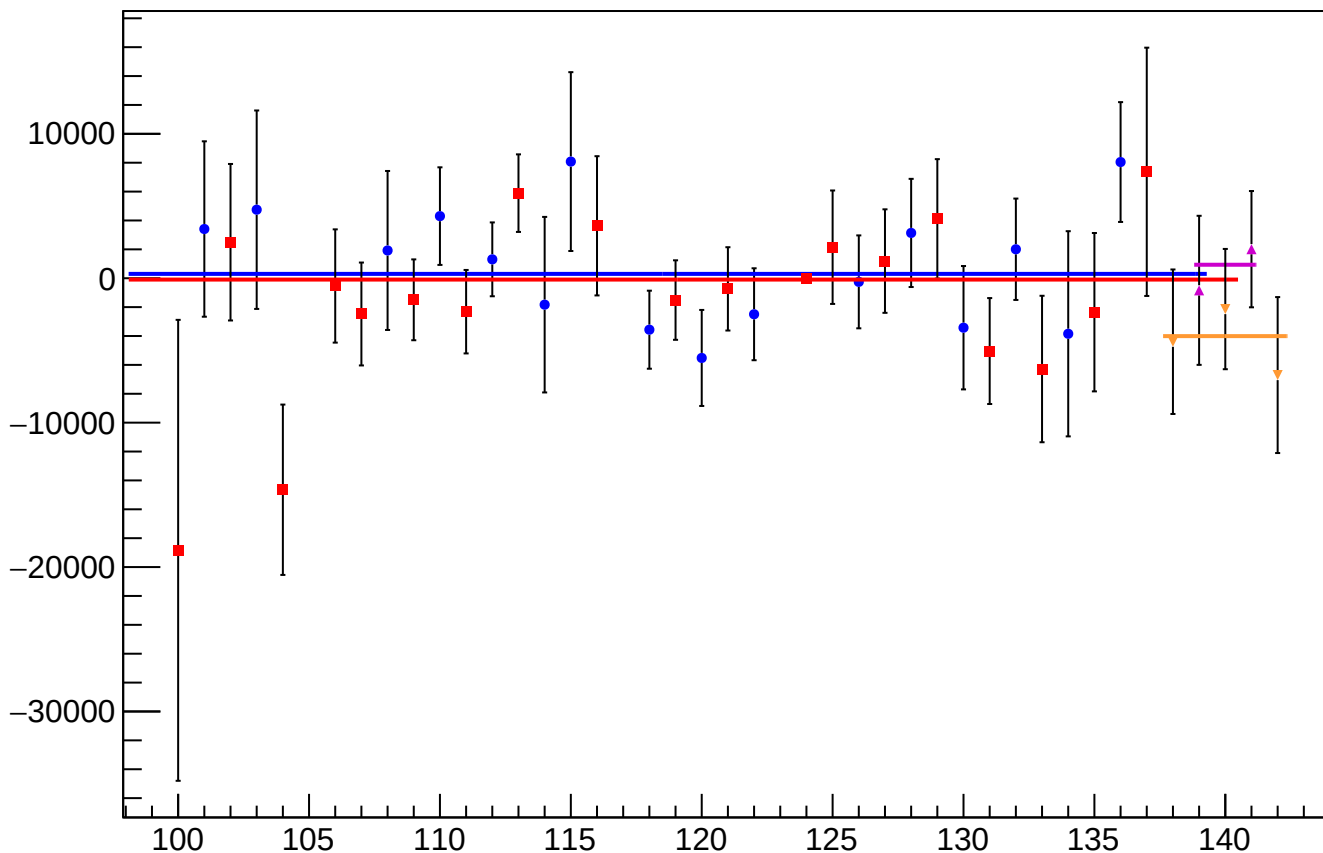
Right: 1676.430 $\pm$ 0.313 χ^2 /NDF: 535909.0/34

In: 1682.128 $\pm$ 0.399 χ^2 /NDF: 163869.0/17

Out: 1720.208 $\pm$ 0.399 χ^2 /NDF: 404382.5/21

All: 1701.178 $\pm$ 0.282 χ^2 /NDF: 572798.3/39

asym_atl_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 301.839+/-960.952 χ^2/NDF : 15.3/15

Left Out: -4008.146+/-2753.346 χ^2/NDF : 0.5/2

Right Out: -92.243+/-315.757 χ^2/NDF : 20.6/18

Left In: 934.502+/-3174.344 χ^2/NDF : 0.2/1

Left: -1886.099+/-2079.944 χ^2/NDF : 2.0/4

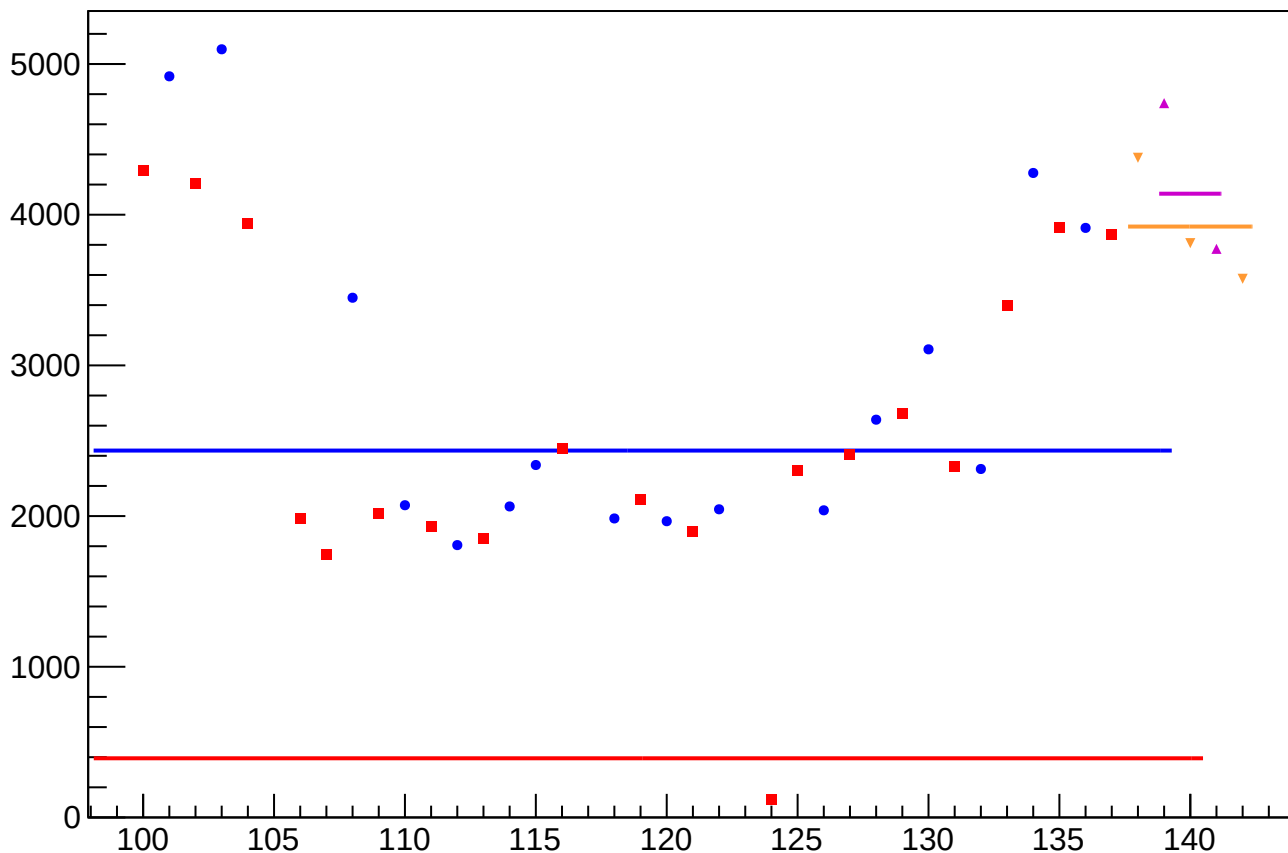
Right: -53.840+/-299.978 χ^2/NDF : 36.1/34

In: 354.950+/-919.733 χ^2/NDF : 15.6/17

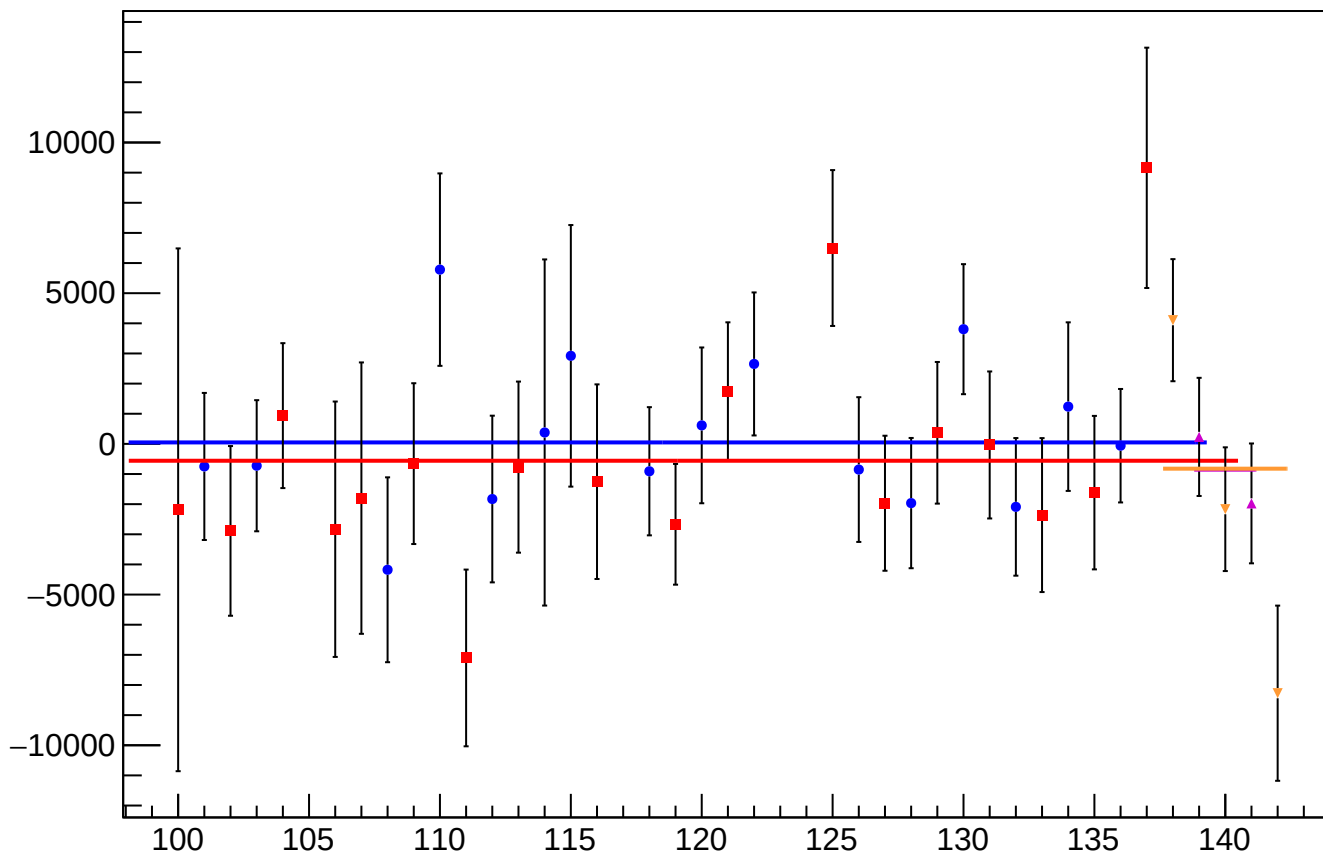
Out: -143.075+/-313.701 χ^2/NDF : 23.1/21

All: -91.176+/-296.906 χ^2/NDF : 38.9/39

asym_atl_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



dit_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 48.331 ± 626.151 $\chi^2/\text{NDF}: 12.8/15$

Left Out: -822.753 ± 1291.616 $\chi^2/\text{NDF}: 12.9/2$

Right Out: -559.598 ± 645.291 $\chi^2/\text{NDF}: 23.3/17$

Left In: -855.865 ± 1395.913 $\chi^2/\text{NDF}: 0.6/1$

Left: -838.026 ± 948.040 $\chi^2/\text{NDF}: 13.5/4$

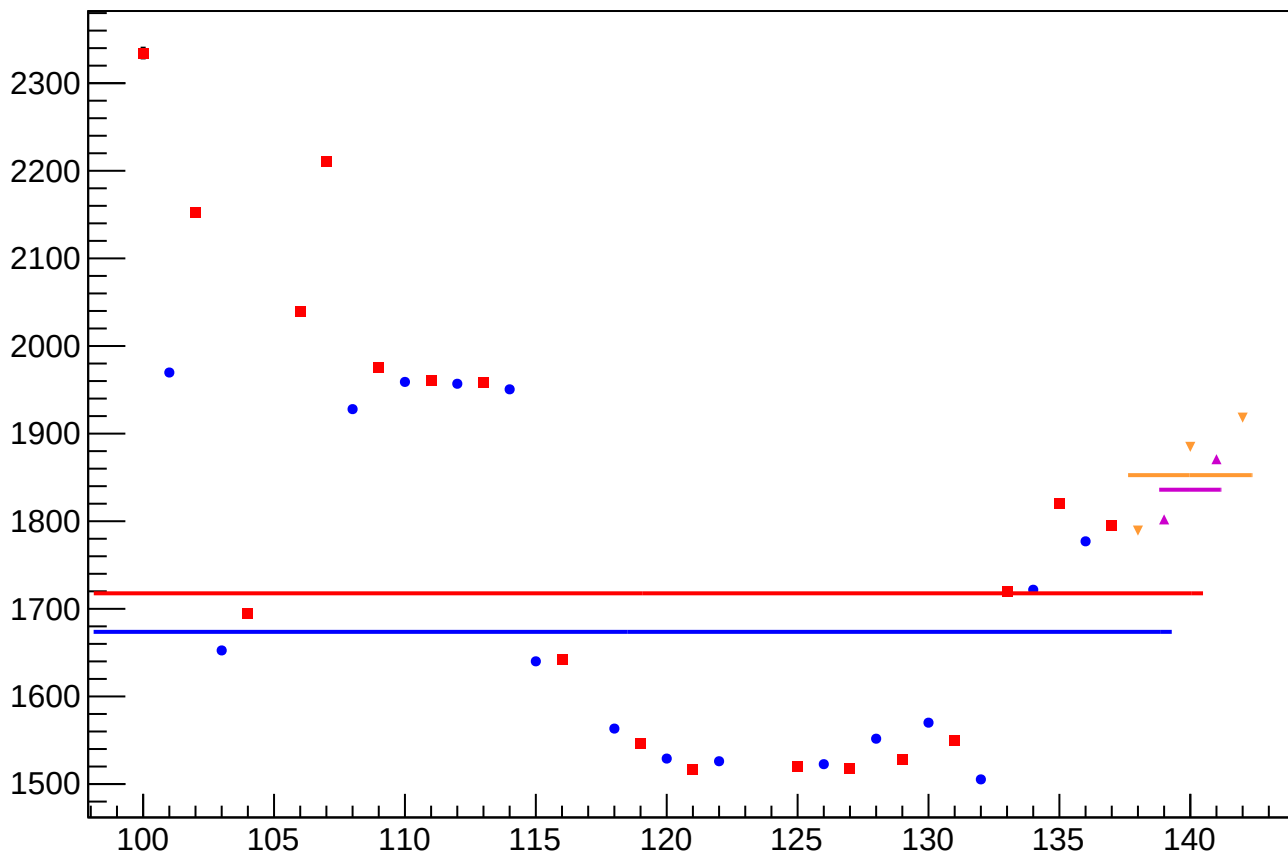
Right: -246.484 ± 449.370 $\chi^2/\text{NDF}: 36.5/33$

In: -103.125 ± 571.308 $\chi^2/\text{NDF}: 13.8/17$

Out: -612.162 ± 577.258 $\chi^2/\text{NDF}: 36.2/20$

All: -355.006 ± 406.063 $\chi^2/\text{NDF}: 50.4/38$

dit_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1673.729 $\pm$ 0.443 χ^2/NDF : 140873.1/15

Left Out: 1852.606 $\pm$ 0.913 χ^2/NDF : 3466.8/2

Right Out: 1717.713 $\pm$ 0.455 χ^2/NDF : 227642.0/17

Left In: 1835.965 $\pm$ 0.987 χ^2/NDF : 1210.5/1

Left: 1844.930 $\pm$ 0.670 χ^2/NDF : 4830.5/4

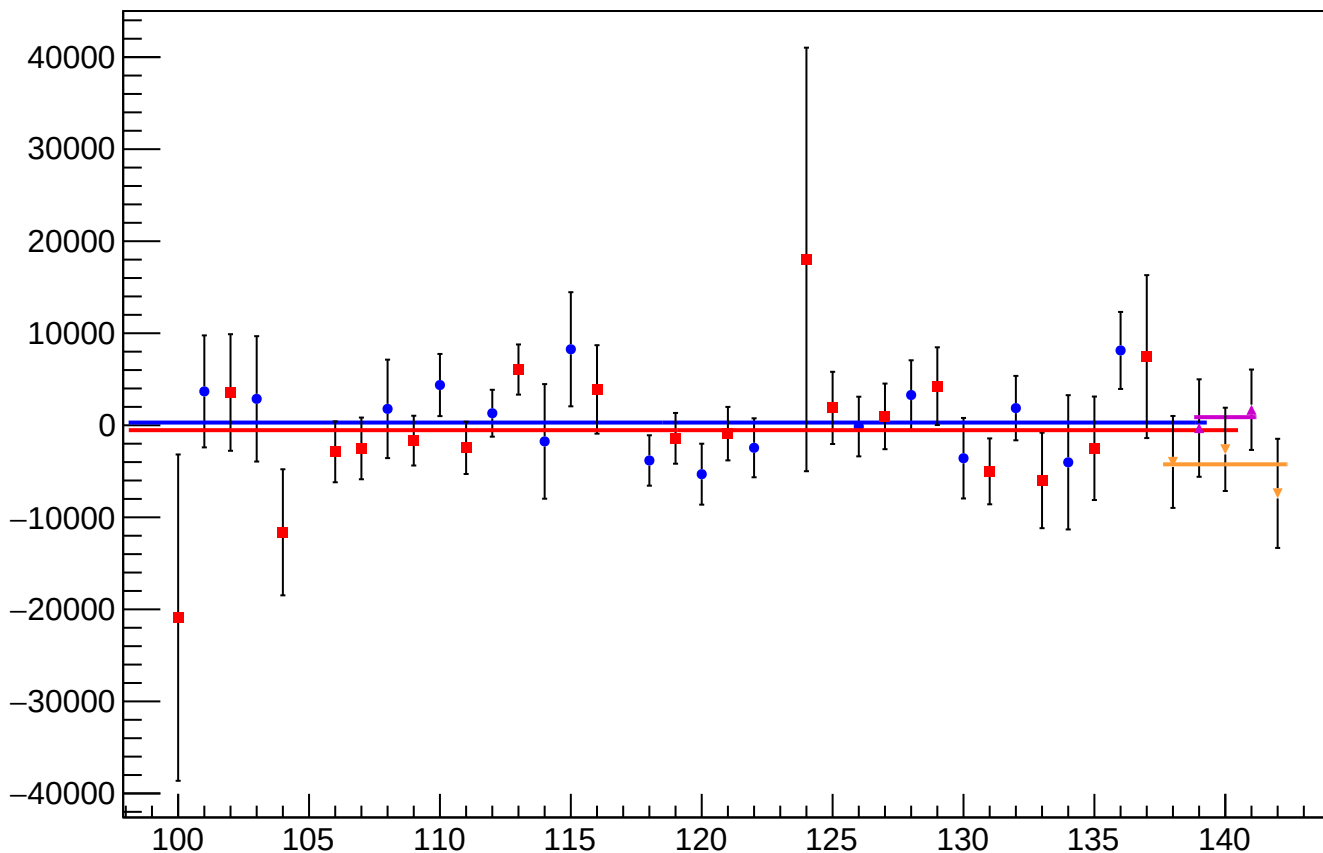
Right: 1695.110 $\pm$ 0.317 χ^2/NDF : 373312.6/33

In: 1700.904 $\pm$ 0.404 χ^2/NDF : 164573.9/17

Out: 1744.558 $\pm$ 0.407 χ^2/NDF : 248581.9/20

All: 1722.545 $\pm$ 0.287 χ^2/NDF : 418944.7/38

asym_atl_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 296.517 $\pm$ 964.677 χ^2 /NDF: 15.3/15

Left Out: -4240.865 $\pm$ 2919.021 χ^2 /NDF:0.4/2

Right Out: -531.007 $\pm$ 883.969 χ^2 /NDF: 18.8/18

Left In: 884.142 $\pm$ 3369.546 χ^2 /NDF:0.1/1

Left: -2043.652 $\pm$ 2206.278 χ^2 /NDF: 1.8/4

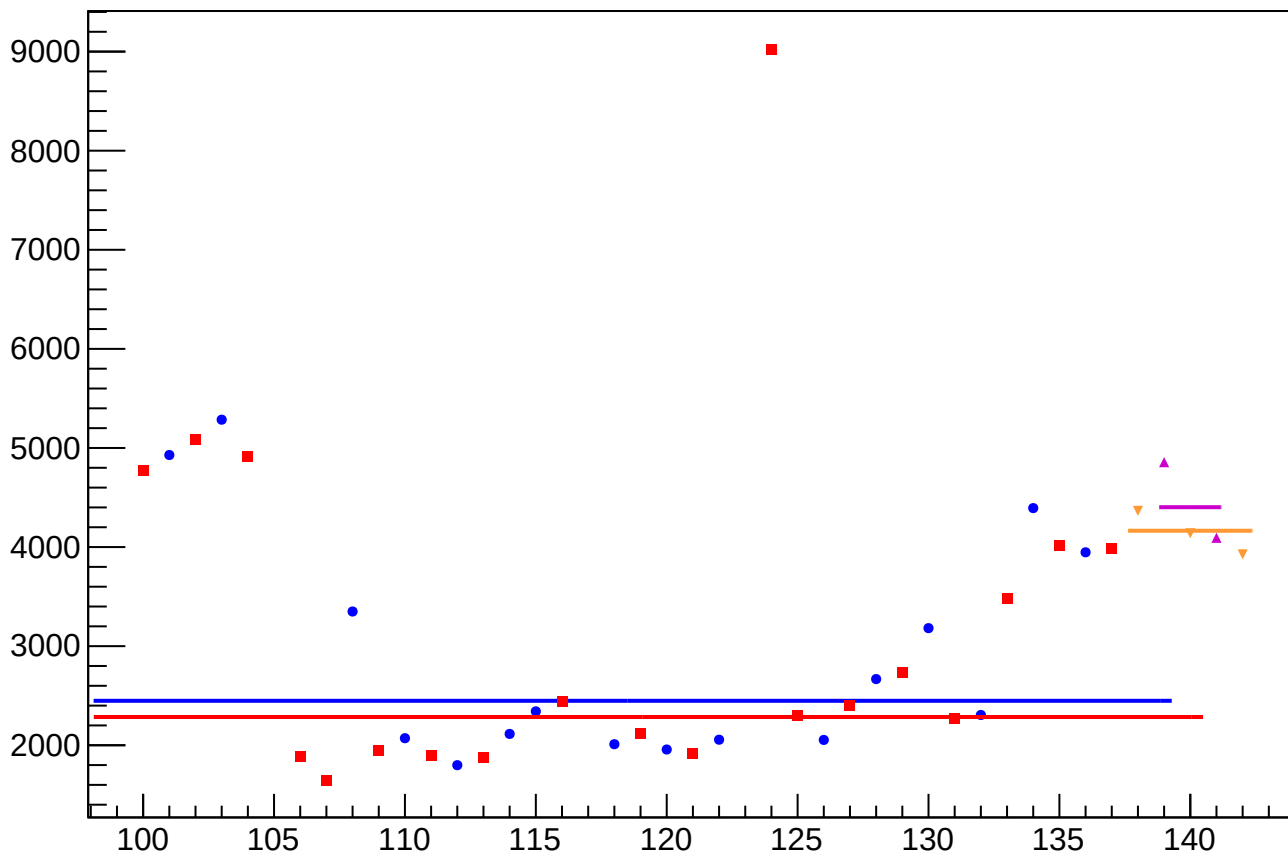
Right: -153.305 $\pm$ 651.728 χ^2 /NDF: 34.4/34

In: 341.032 $\pm$ 927.418 χ^2 /NDF:15.4/17

Out: -842.645 $\pm$ 846.027 χ^2 /NDF:20.7/21

All: -305.017 $\pm$ 625.029 χ^2 /NDF: 36.9/39

asym_atl_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2448.598 $\pm$ 0.682 χ^2 /NDF: 1517585.7/15

Left Out: 4164.696 $\pm$ 2.064 χ^2 /NDF:6519.9/2

Right Out: 2285.075 $\pm$ 0.625 χ^2 /NDF: 1548819.2/18

Left In: 4402.373 $\pm$ 2.383 χ^2 /NDF:24715.5/1

Left: 4266.594 $\pm$ 1.560 χ^2 /NDF: 36920.1/4

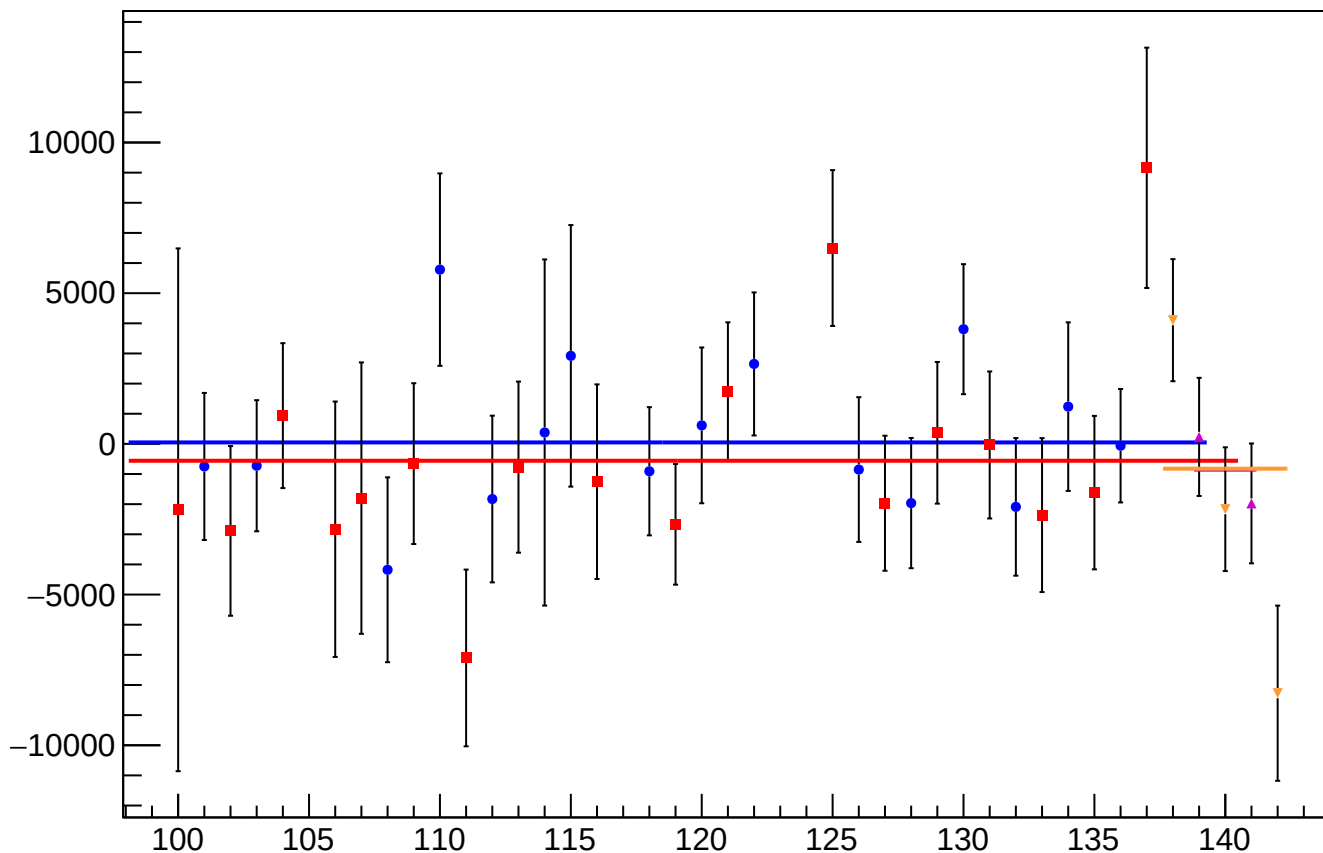
Right: 2359.711 $\pm$ 0.461 χ^2 /NDF: 3097643.0/34

In: 2596.605 $\pm$ 0.656 χ^2 /NDF:2163776.1/17

Out: 2442.968 $\pm$ 0.598 χ^2 /NDF:2314948.9/21

All: 2512.750 $\pm$ 0.442 χ^2 /NDF: 4508682.4/39

eigen_dit_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 48.329 ± 626.151 $\chi^2/\text{NDF}: 12.8/15$

Left Out: -822.766 ± 1291.617 $\chi^2/\text{NDF}: 12.9/2$

Right Out: -559.600 ± 645.291 $\chi^2/\text{NDF}: 23.3/17$

Left In: -855.865 ± 1395.914 $\chi^2/\text{NDF}: 0.6/1$

Left: -838.033 ± 948.041 $\chi^2/\text{NDF}: 13.5/4$

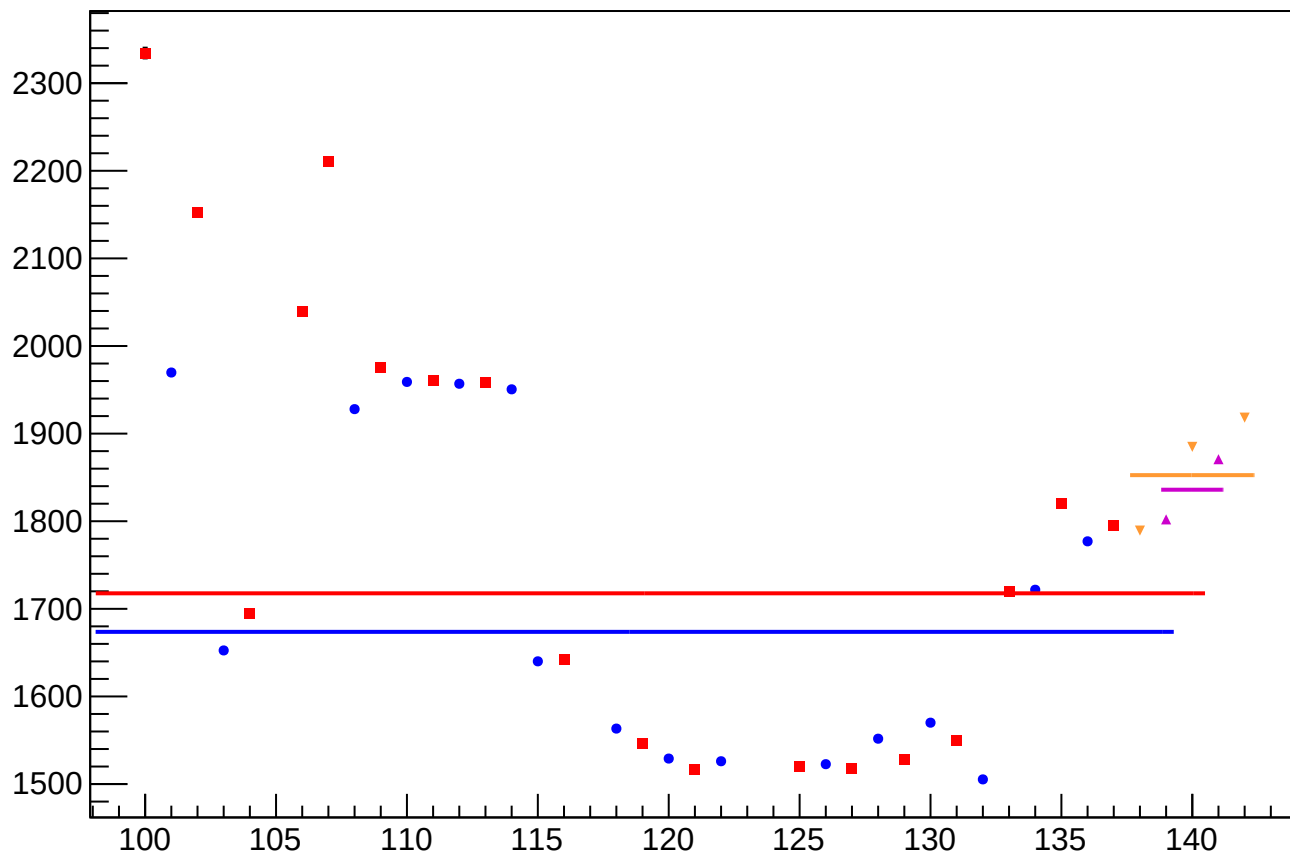
Right: -246.486 ± 449.370 $\chi^2/\text{NDF}: 36.5/33$

In: -103.126 ± 571.308 $\chi^2/\text{NDF}: 13.8/17$

Out: -612.166 ± 577.258 $\chi^2/\text{NDF}: 36.2/20$

All: -355.009 ± 406.063 $\chi^2/\text{NDF}: 50.4/38$

eigen_dit_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1673.728 $\pm$ 0.443 χ^2/NDF : 140873.1/15

Left Out: 1852.607 $\pm$ 0.913 χ^2/NDF : 3466.9/2

Right Out: 1717.713 $\pm$ 0.455 χ^2/NDF : 227641.3/17

Left In: 1835.967 $\pm$ 0.987 χ^2/NDF : 1210.5/1

Left: 1844.931 $\pm$ 0.670 χ^2/NDF : 4830.6/4

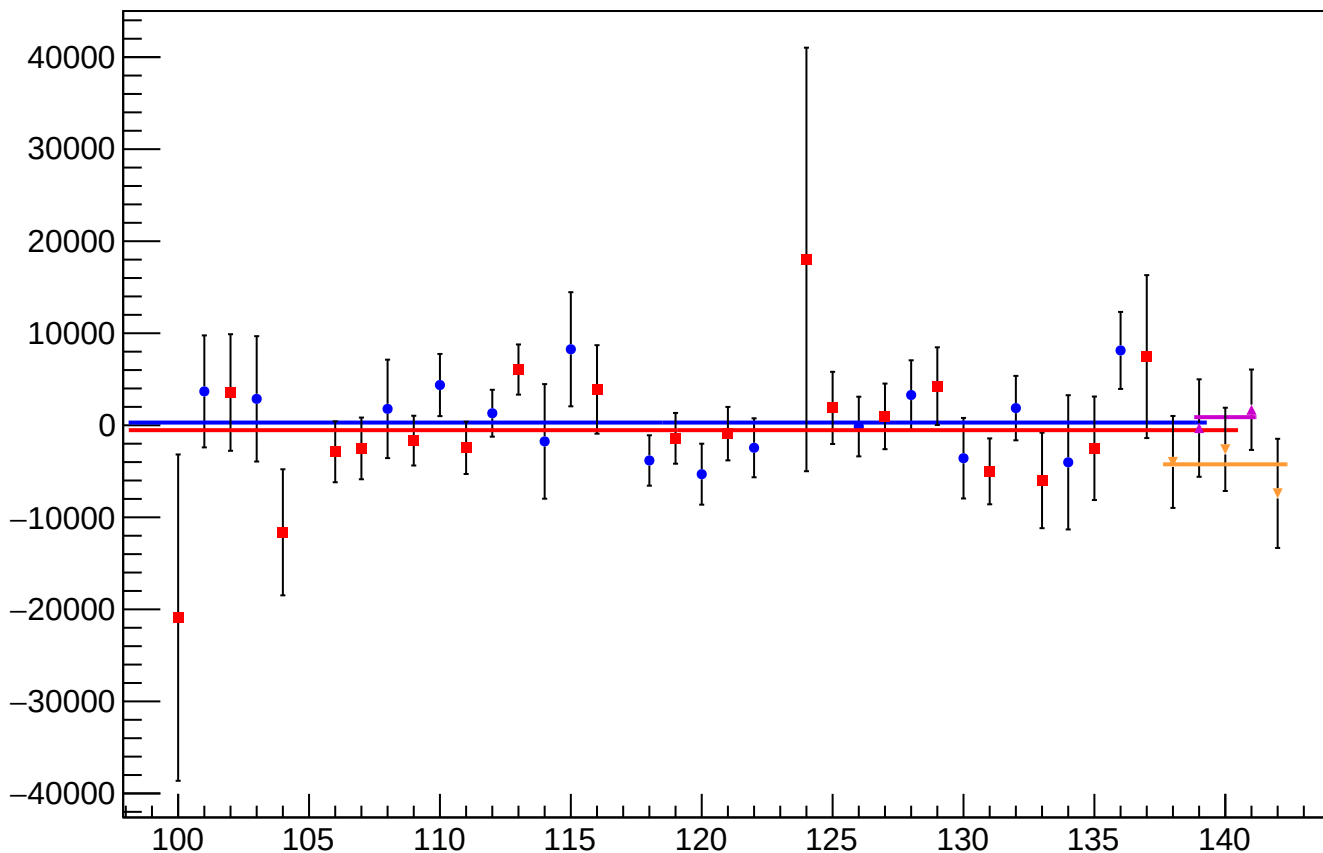
Right: 1695.110 $\pm$ 0.317 χ^2/NDF : 373311.9/33

In: 1700.904 $\pm$ 0.404 χ^2/NDF : 164574.3/17

Out: 1744.558 $\pm$ 0.407 χ^2/NDF : 248581.5/20

All: 1722.545 $\pm$ 0.287 χ^2/NDF : 418944.7/38

asym_atl_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 296.511+/-964.673 χ^2/NDF : 15.3/15

Left Out: -4240.882+/-2919.029 χ^2/NDF : 0.4/2

Right Out: -531.009+/-883.966 χ^2/NDF : 18.8/18

Left In: 884.144+/-3369.555 χ^2/NDF : 0.1/1

Left: -2043.660+/-2206.284 χ^2/NDF : 1.8/4

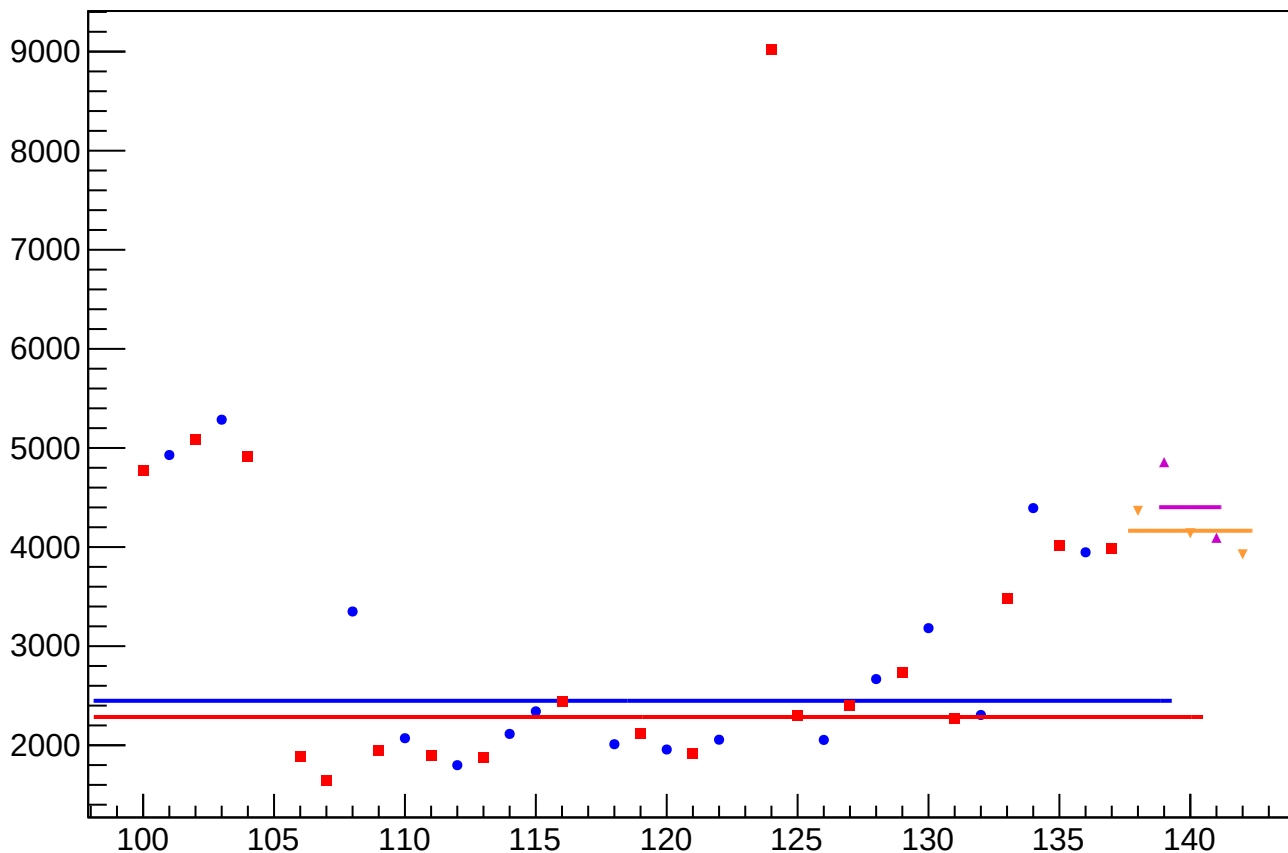
Right: -153.308+/-651.726 χ^2/NDF : 34.4/34

In: 341.026+/-927.415 χ^2/NDF : 15.4/17

Out: -842.645+/-846.024 χ^2/NDF : 20.7/21

All: -305.019+/-625.027 χ^2/NDF : 36.9/39

asym_atl_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2448.587 $\pm$ 0.682 χ^2 /NDF: 1517598.4/15

Left Out: 4164.708 $\pm$ 2.064 χ^2 /NDF: 6520.0/2

Right Out: 2285.066 $\pm$ 0.625 χ^2 /NDF: 1548827.3/18

Left In: 4402.384 $\pm$ 2.383 χ^2 /NDF: 24716.2/1

Left: 4266.605 $\pm$ 1.560 χ^2 /NDF: 36920.8/4

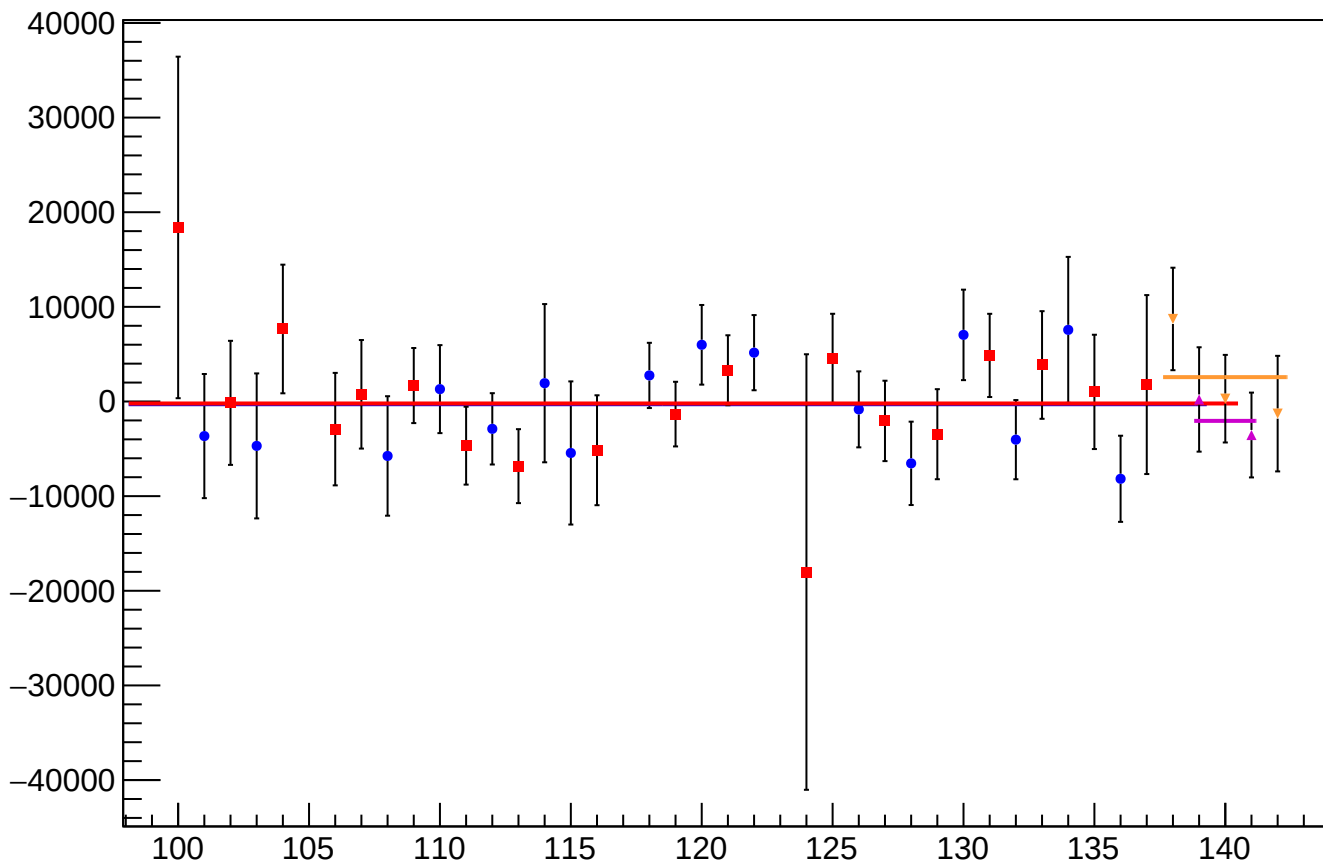
Right: 2359.701 $\pm$ 0.461 χ^2 /NDF: 3097663.3/34

In: 2596.594 $\pm$ 0.656 χ^2 /NDF: 2163800.6/17

Out: 2442.959 $\pm$ 0.598 χ^2 /NDF: 2314970.4/21

All: 2512.741 $\pm$ 0.442 χ^2 /NDF: 4508727.7/39

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -287.276 ± 1197.339 χ^2/NDF : 16.6/15

Left Out: 2574.341 ± 3048.173 χ^2/NDF : 1.9/2

Right Out: -209.473 ± 1153.742 χ^2/NDF : 12.9/18

Left In: -2047.309 ± 3477.893 χ^2/NDF : 0.3/1

Left: 566.523 ± 2292.345 χ^2/NDF : 3.2/4

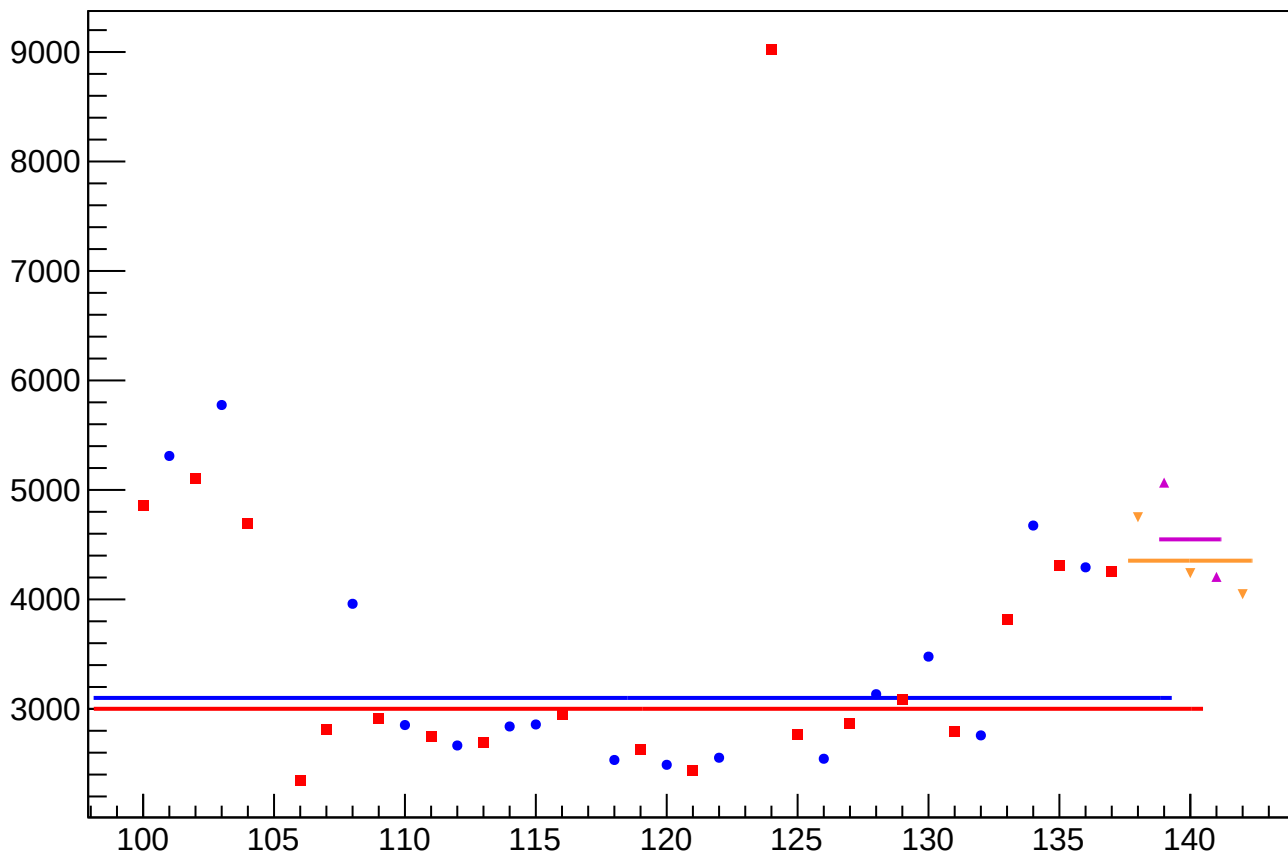
Right: -246.932 ± 830.804 χ^2/NDF : 29.4/34

In: -473.775 ± 1132.126 χ^2/NDF : 17.1/17

Out: 139.372 ± 1079.035 χ^2/NDF : 15.5/21

All: -152.488 ± 781.087 χ^2/NDF : 32.8/39

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3100.135+/-0.847 χ^2/NDF : 963669.6/15

Left Out: 4353.745+/-2.155 χ^2/NDF : 16977.0/2

Right Out: 3000.750+/-0.805 χ^2/NDF : 806601.4/18

Left In: 4548.294+/-2.459 χ^2/NDF : 29362.4/1

Left: 4438.264+/-1.621 χ^2/NDF : 49878.8/4

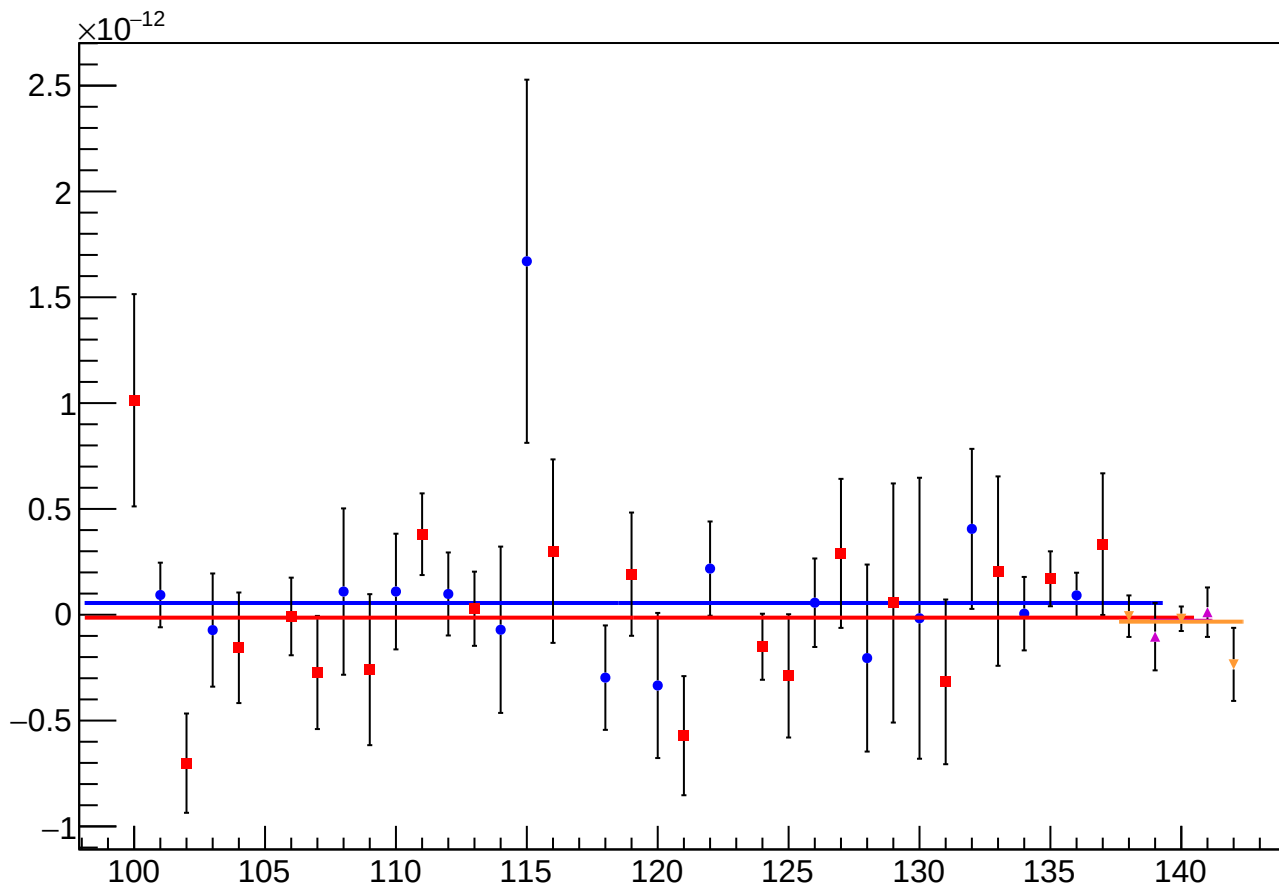
Right: 3047.926+/-0.583 χ^2/NDF : 1777509.7/34

In: 3253.587+/-0.801 χ^2/NDF : 1303048.8/17

Out: 3166.306+/-0.754 χ^2/NDF : 1169405.1/21

All: 3207.334+/-0.549 χ^2/NDF : 2478753.3/39

asym_atl_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.5/2

Right Out: -0.000+/-0.000 χ^2/NDF : 30.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.3/1

Left: -0.000+/-0.000 χ^2/NDF : 1.8/4

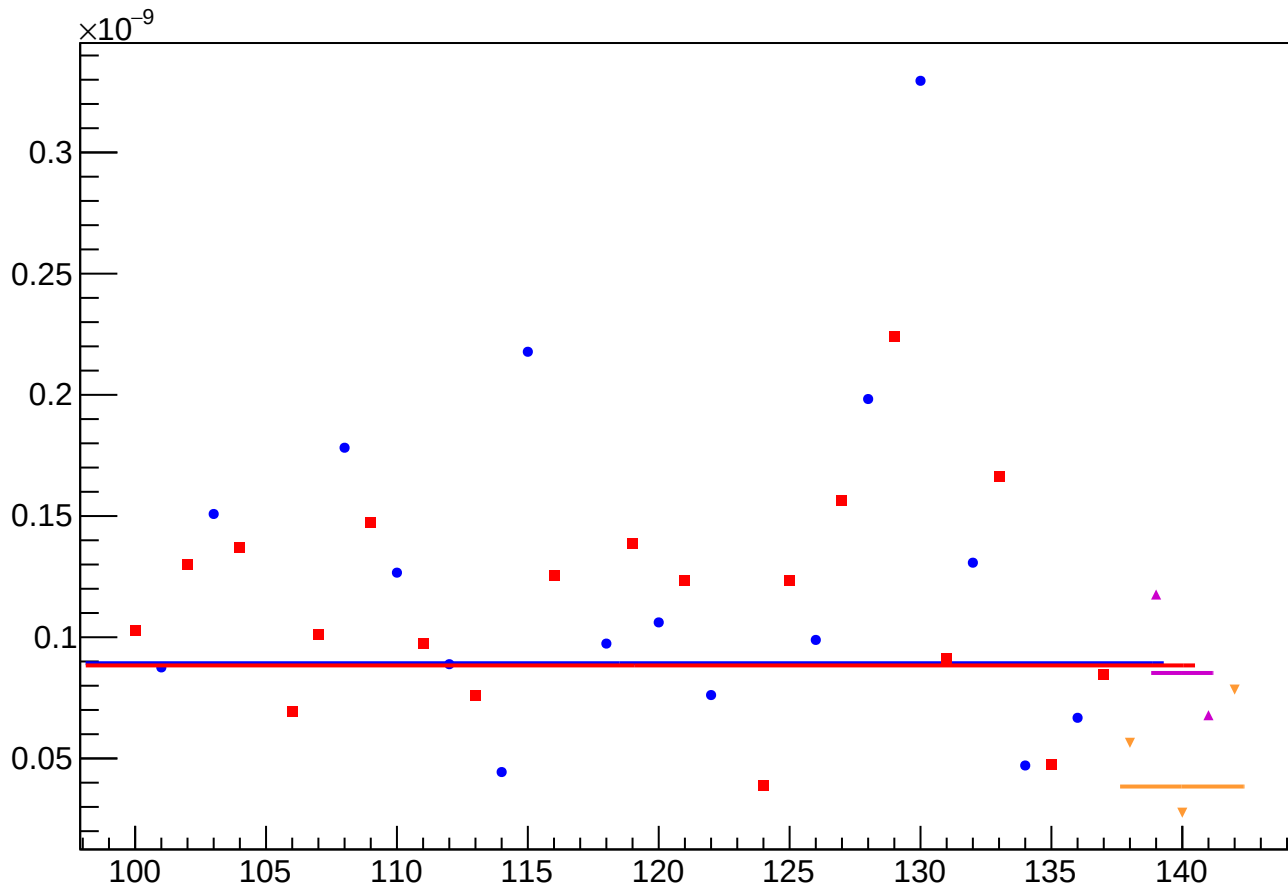
Right: 0.000+/-0.000 χ^2/NDF : 40.1/34

In: 0.000+/-0.000 χ^2/NDF : 10.2/17

Out: -0.000+/-0.000 χ^2/NDF : 31.6/21

All: -0.000+/-0.000 χ^2/NDF : 42.8/39

asym_atl_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 949608.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 244384.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1013814.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 127040.7/1

Left: 0.000+/-0.000 χ^2/NDF : 764268.4/4

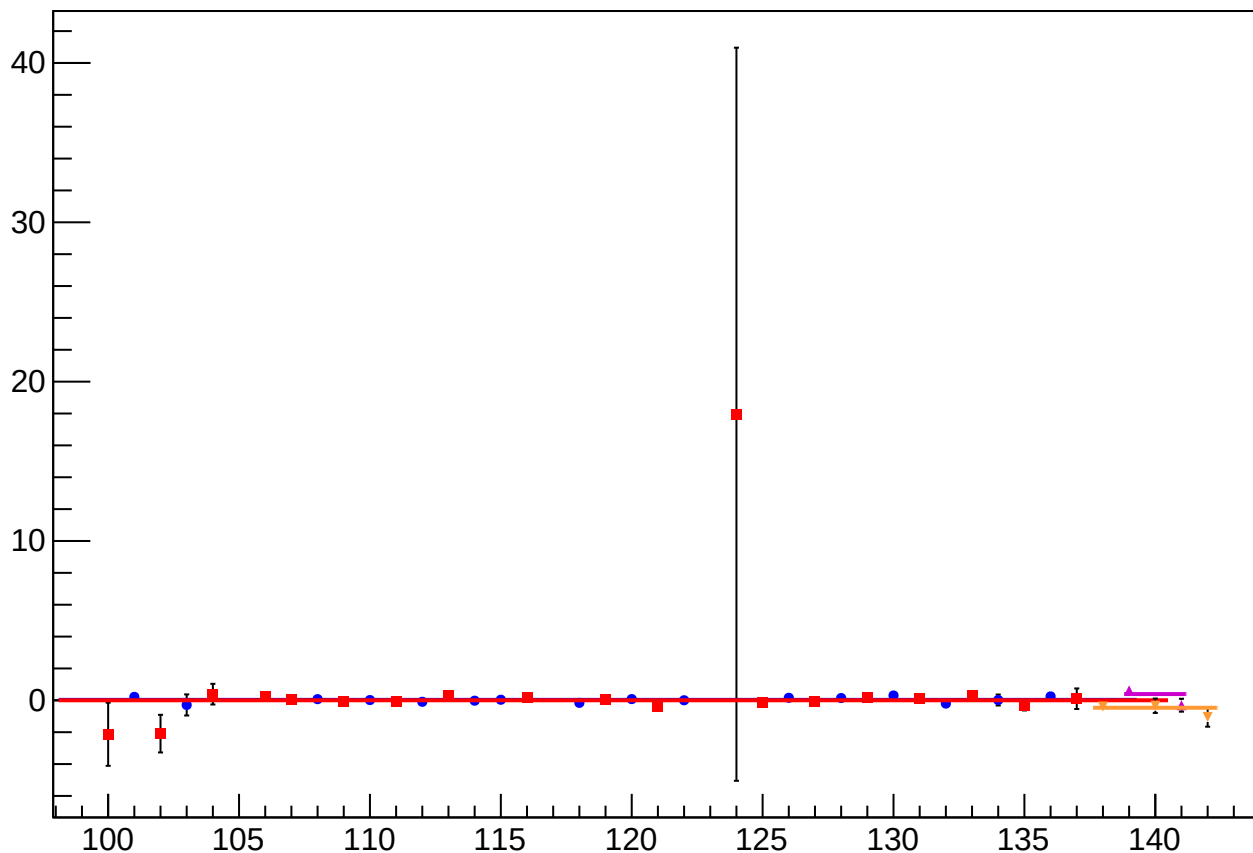
Right: 0.000+/-0.000 χ^2/NDF : 1963677.1/34

In: 0.000+/-0.000 χ^2/NDF : 1079313.0/17

Out: 0.000+/-0.000 χ^2/NDF : 2181667.1/21

All: 0.000+/-0.000 χ^2/NDF : 3706194.3/39

asym_atl_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.045 χ^2/NDF : 8.9/15

Left Out: -0.466+/-0.228 χ^2/NDF : 1.0/2

Right Out: 0.003+/-0.043 χ^2/NDF : 22.4/18

Left In: 0.393+/-0.201 χ^2/NDF : 4.0/1

Left: 0.017+/-0.151 χ^2/NDF : 13.0/4

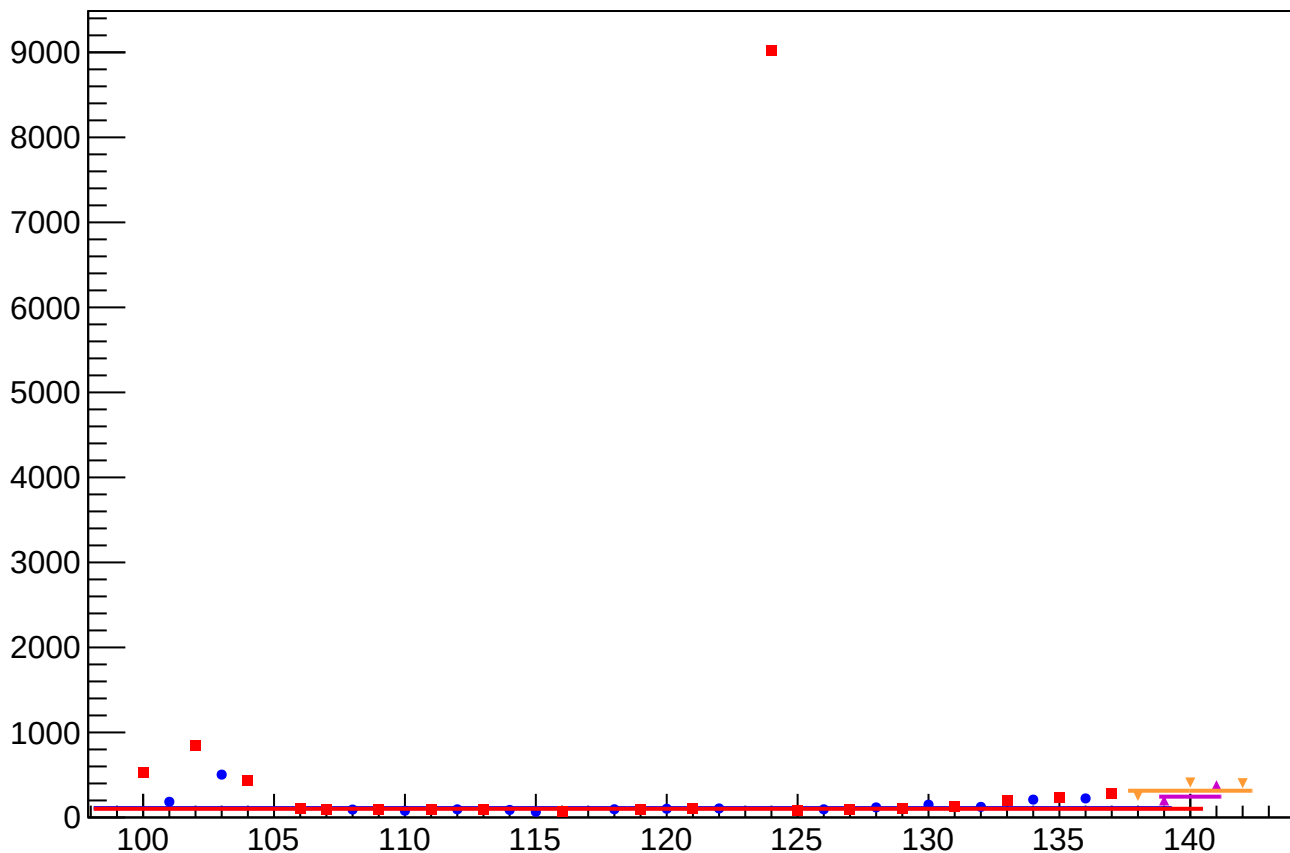
Right: 0.015+/-0.031 χ^2/NDF : 31.4/34

In: 0.046+/-0.044 χ^2/NDF : 16.0/17

Out: -0.013+/-0.043 χ^2/NDF : 27.5/21

All: 0.015+/-0.031 χ^2/NDF : 44.4/39

asym_atl_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.988+/-0.032 χ^2/NDF : 1930558.2/15

Left Out: 314.395+/-0.161 χ^2/NDF : 219617.5/2

Right Out: 101.852+/-0.031 χ^2/NDF : 2589792.8/18

Left In: 244.644+/-0.142 χ^2/NDF : 293529.3/1

Left: 275.179+/-0.107 χ^2/NDF : 618375.6/4

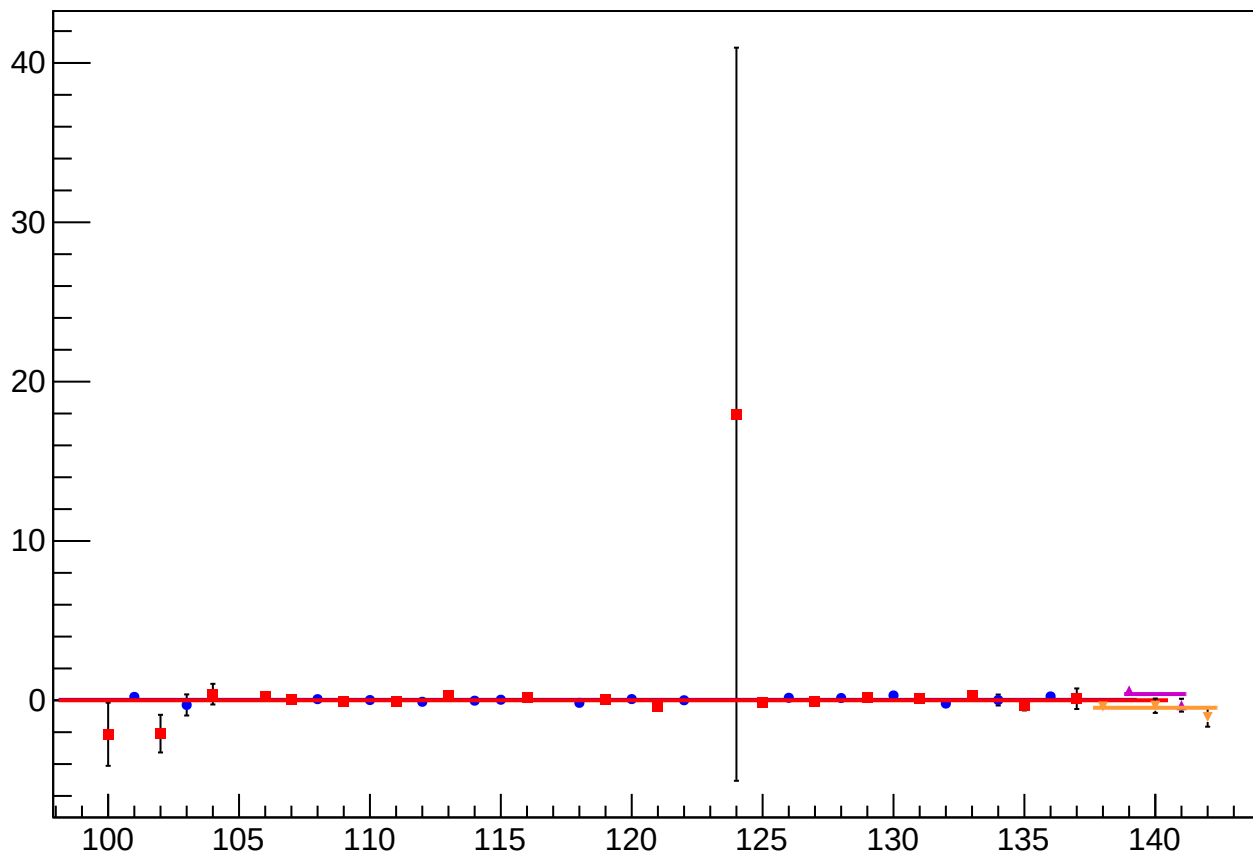
Right: 105.743+/-0.022 χ^2/NDF : 4554008.7/34

In: 116.485+/-0.031 χ^2/NDF : 3076728.7/17

Out: 109.274+/-0.030 χ^2/NDF : 4486563.9/21

All: 112.748+/-0.022 χ^2/NDF : 7590891.9/39

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.045 χ^2/NDF : 8.9/15

Left Out: -0.466+/-0.228 χ^2/NDF : 1.0/2

Right Out: 0.003+/-0.043 χ^2/NDF : 22.4/18

Left In: 0.393+/-0.201 χ^2/NDF : 4.0/1

Left: 0.017+/-0.151 χ^2/NDF : 13.0/4

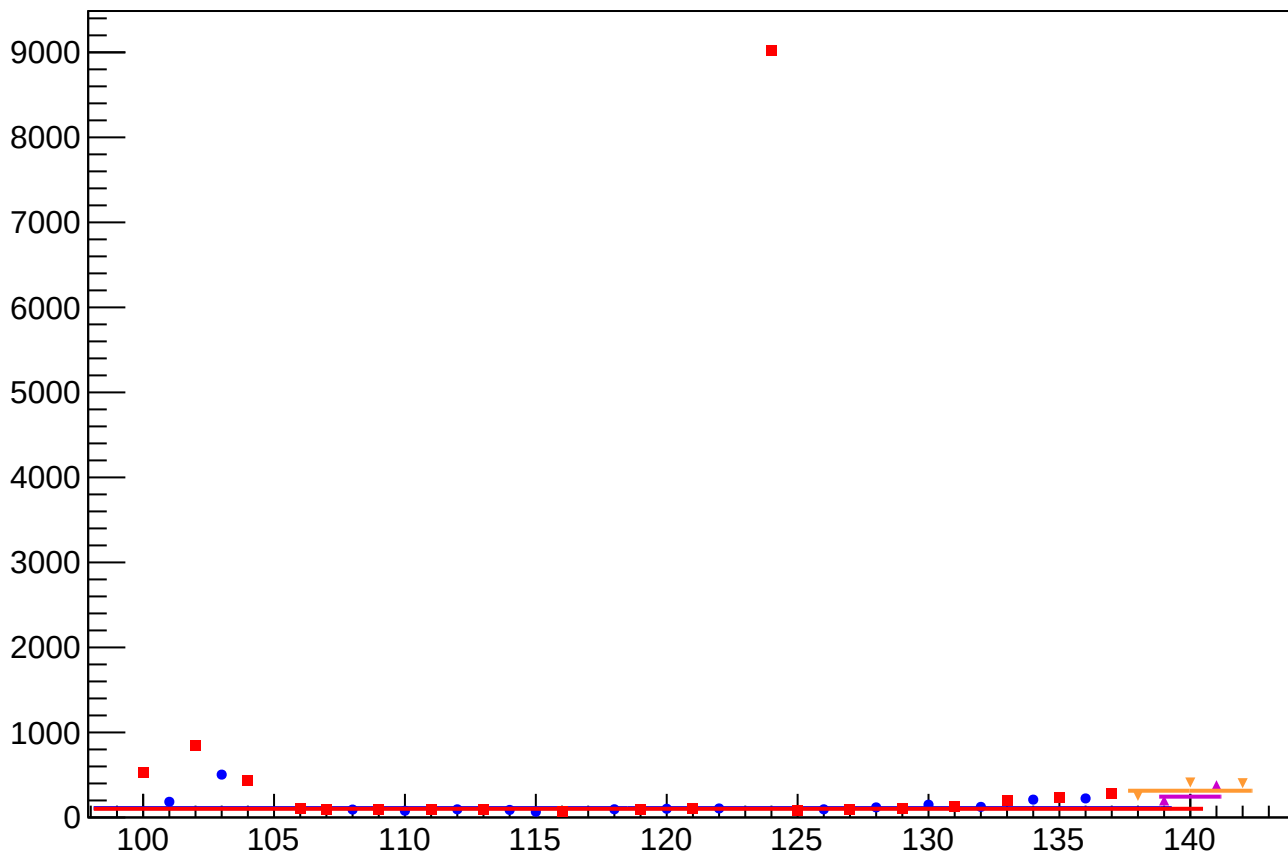
Right: 0.015+/-0.031 χ^2/NDF : 31.4/34

In: 0.046+/-0.044 χ^2/NDF : 16.0/17

Out: -0.013+/-0.043 χ^2/NDF : 27.5/21

All: 0.015+/-0.031 χ^2/NDF : 44.4/39

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.988+/-0.032 χ^2/NDF : 1930558.2/15

Left Out: 314.395+/-0.161 χ^2/NDF : 219617.5/2

Right Out: 101.852+/-0.031 χ^2/NDF : 2589792.8/18

Left In: 244.644+/-0.142 χ^2/NDF : 293529.3/1

Left: 275.179+/-0.107 χ^2/NDF : 618375.6/4

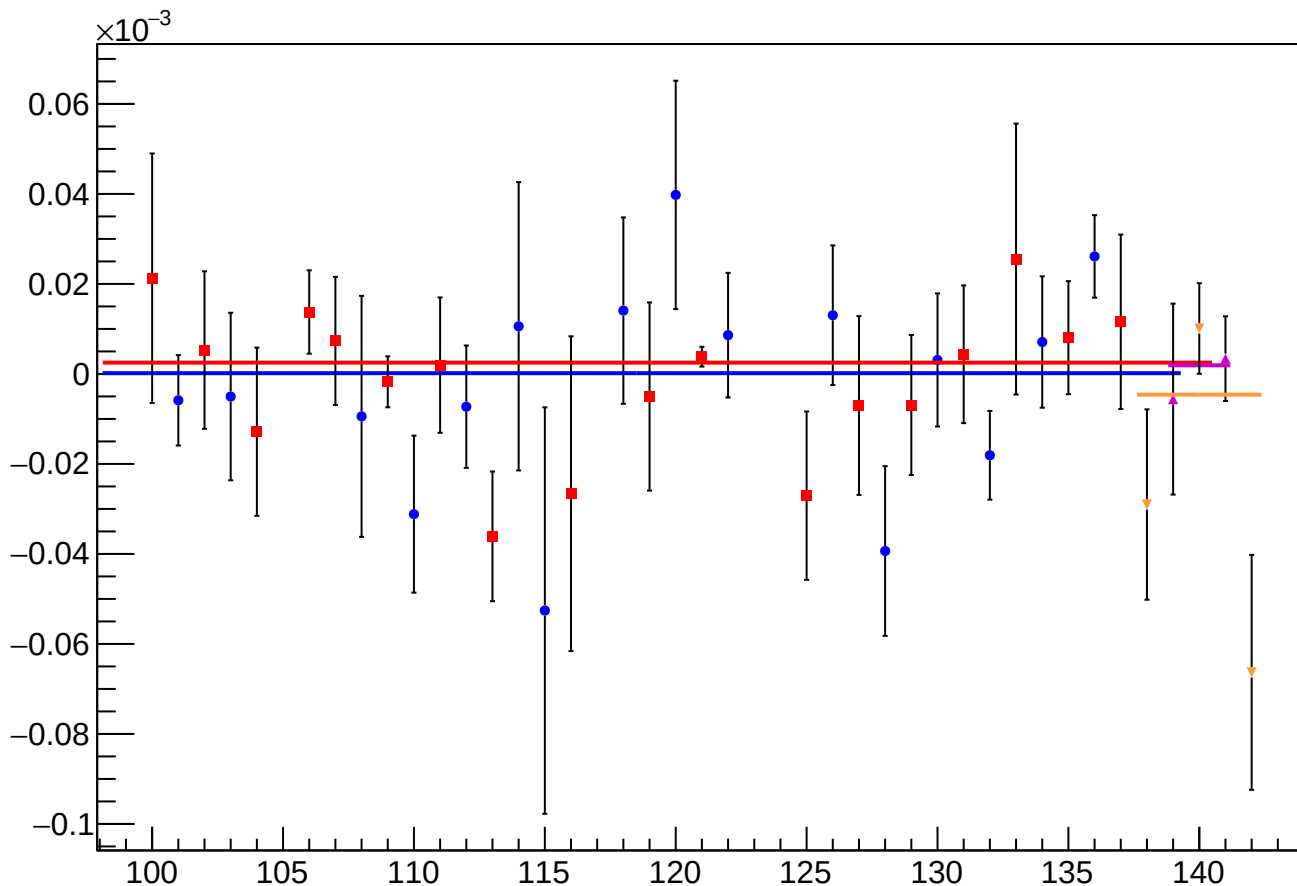
Right: 105.743+/-0.022 χ^2/NDF : 4554008.7/34

In: 116.485+/-0.031 χ^2/NDF : 3076728.7/17

Out: 109.274+/-0.030 χ^2/NDF : 4486563.9/21

All: 112.748+/-0.022 χ^2/NDF : 7590891.9/39

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 25.6/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 9.1/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 15.8/17

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.2/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 9.5/4

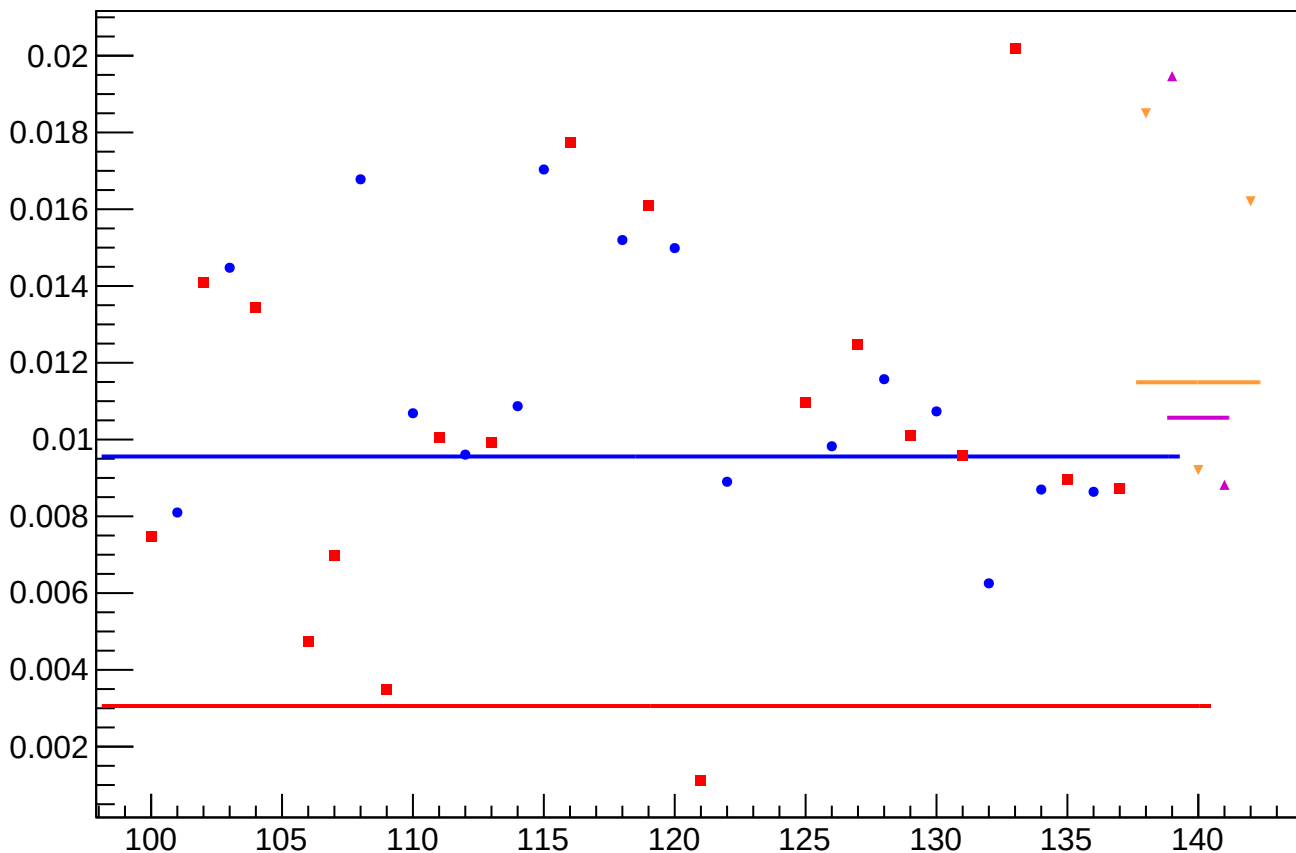
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 41.7/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF: 25.8/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 25.5/20

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 51.5/38

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 926018.8/15

Left Out: 0.011+/-0.000 χ^2/NDF :388084.1/2

Right Out: 0.003+/-0.000 χ^2/NDF : 8122378.4/17

Left In: 0.011+/-0.000 χ^2/NDF :420850.9/1

Left: 0.011+/-0.000 χ^2/NDF : 820481.6/4

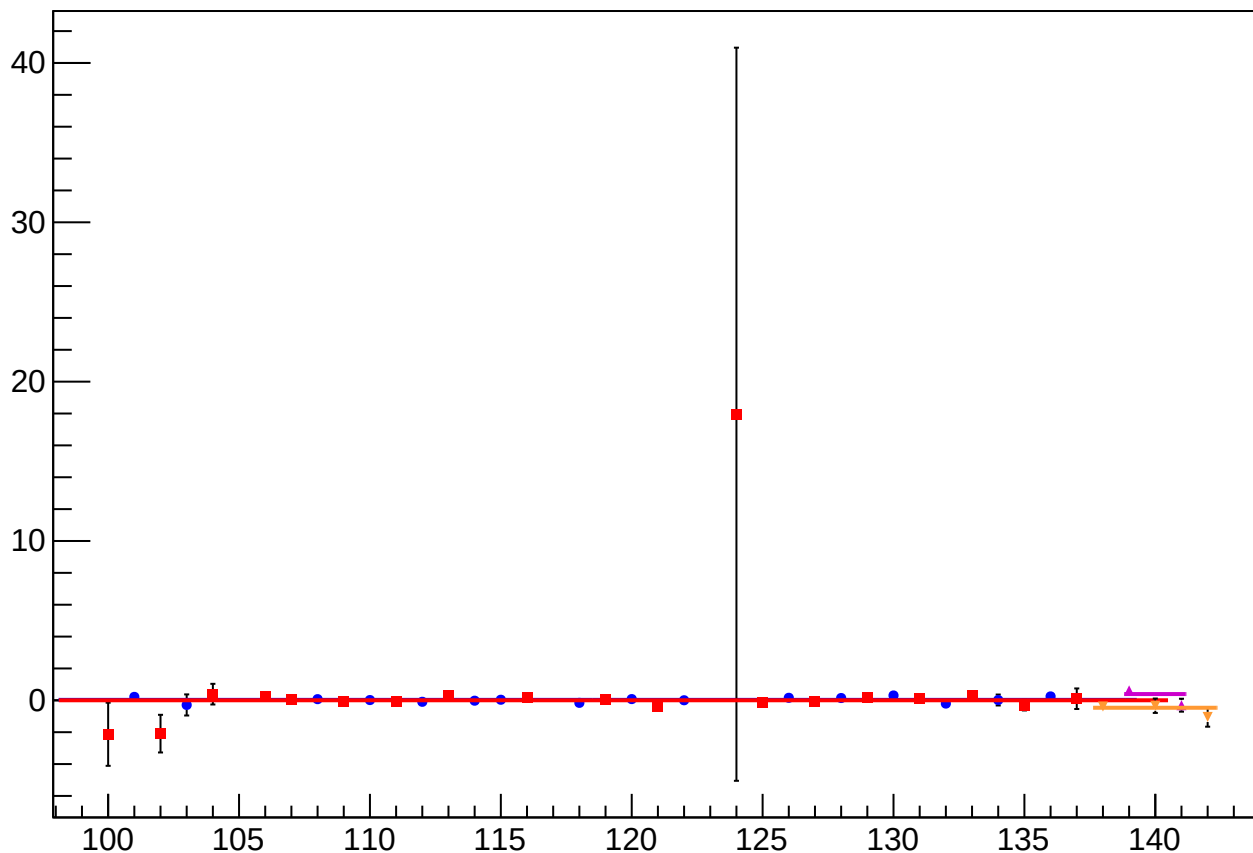
Right: 0.004+/-0.000 χ^2/NDF : 13944710.4/33

In: 0.010+/-0.000 χ^2/NDF :1370090.5/17

Out: 0.003+/-0.000 χ^2/NDF :10357382.1/20

All: 0.005+/-0.000 χ^2/NDF : 17041448.0/38

asym_atl_dd_eigen_dit_vs_slug, Sign Corrected



Right In: 0.028 $\pm$ 0.045 χ^2 /NDF: 8.9/15

Left Out: -0.466 $\pm$ 0.228 χ^2 /NDF:1.0/2

Right Out: 0.003 $\pm$ 0.043 χ^2 /NDF: 22.4/18

Left In: 0.393 $\pm$ 0.201 χ^2 /NDF:4.0/1

Left: 0.017 $\pm$ 0.151 χ^2 /NDF: 13.0/4

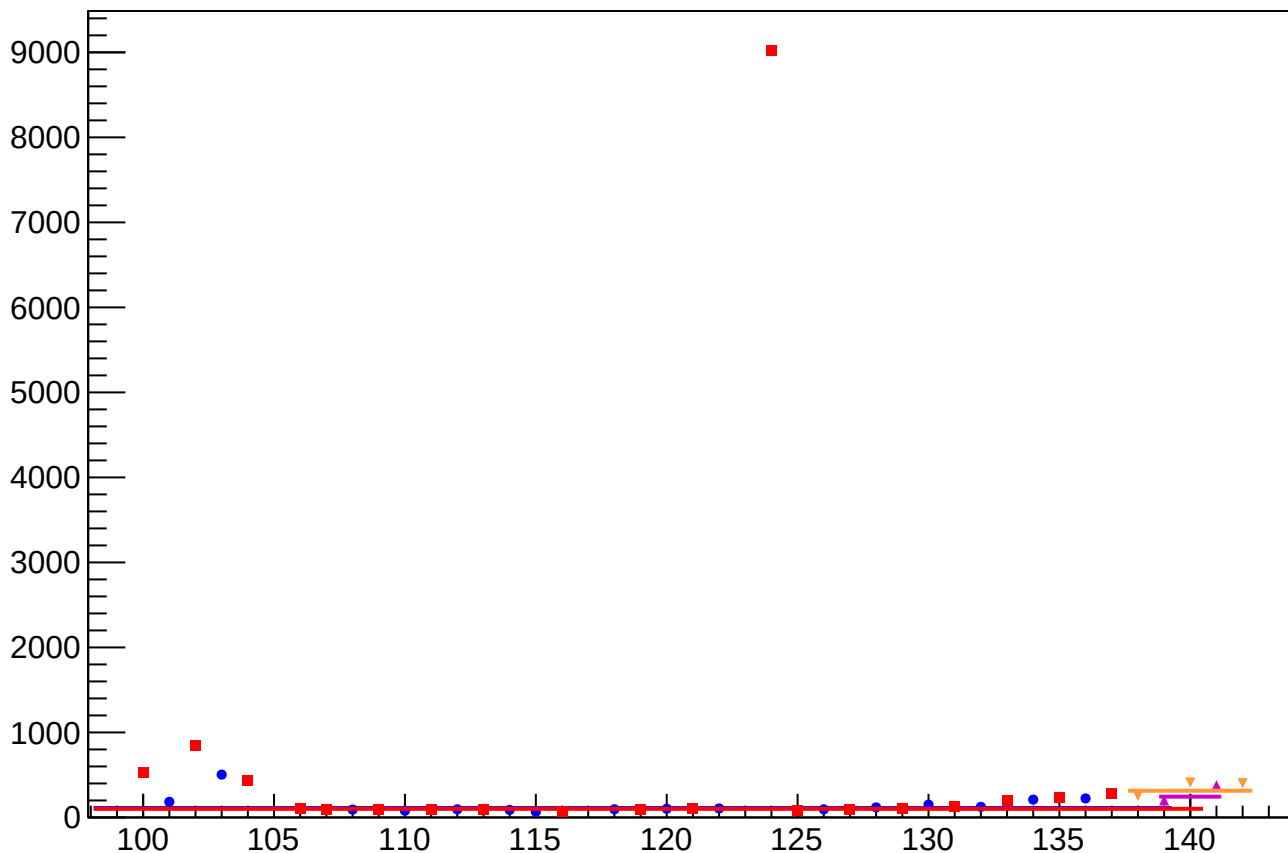
Right: 0.015 $\pm$ 0.031 χ^2 /NDF: 31.4/34

In: 0.046 $\pm$ 0.044 χ^2 /NDF:16.0/17

Out: -0.013 $\pm$ 0.043 χ^2 /NDF:27.5/21

All: 0.015 $\pm$ 0.031 χ^2 /NDF: 44.4/39

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.989 $\pm$ 0.032 χ^2 /NDF: 1930489.2/15

Left Out: 314.399 $\pm$ 0.161 χ^2 /NDF: 219624.9/2

Right Out: 101.853 $\pm$ 0.031 χ^2 /NDF: 2589710.5/18

Left In: 244.651 $\pm$ 0.142 χ^2 /NDF: 293515.2/1

Left: 275.185 $\pm$ 0.107 χ^2 /NDF: 618355.8/4

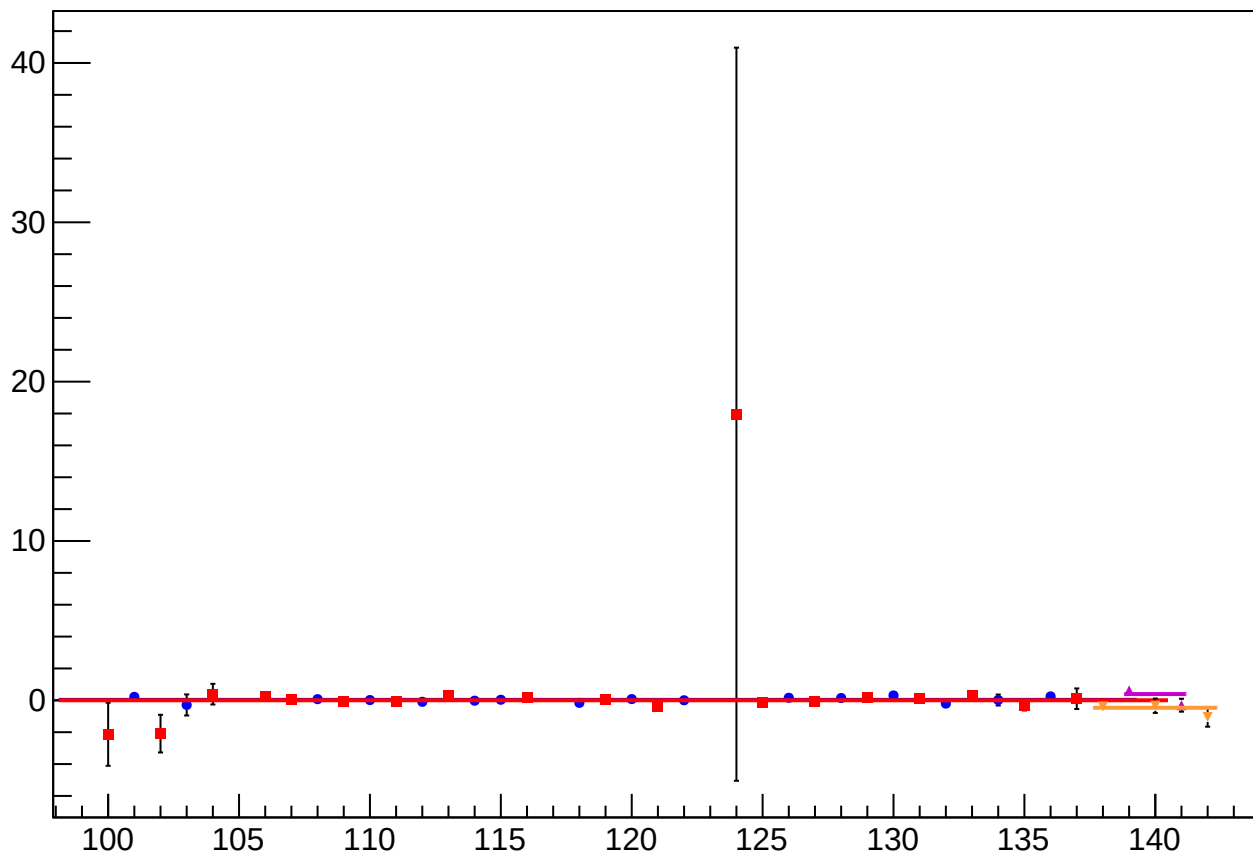
Right: 105.744 $\pm$ 0.022 χ^2 /NDF: 4553853.6/34

In: 116.486 $\pm$ 0.031 χ^2 /NDF: 3076680.7/17

Out: 109.275 $\pm$ 0.030 χ^2 /NDF: 4486489.9/21

All: 112.749 $\pm$ 0.022 χ^2 /NDF: 7590766.5/39

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.045 χ^2 /NDF: 8.9/15

Left Out: -0.466 $\pm$ 0.228 χ^2 /NDF:1.0/2

Right Out: 0.003 $\pm$ 0.043 χ^2 /NDF: 22.4/18

Left In: 0.393 $\pm$ 0.201 χ^2 /NDF:4.0/1

Left: 0.017 $\pm$ 0.151 χ^2 /NDF: 13.0/4

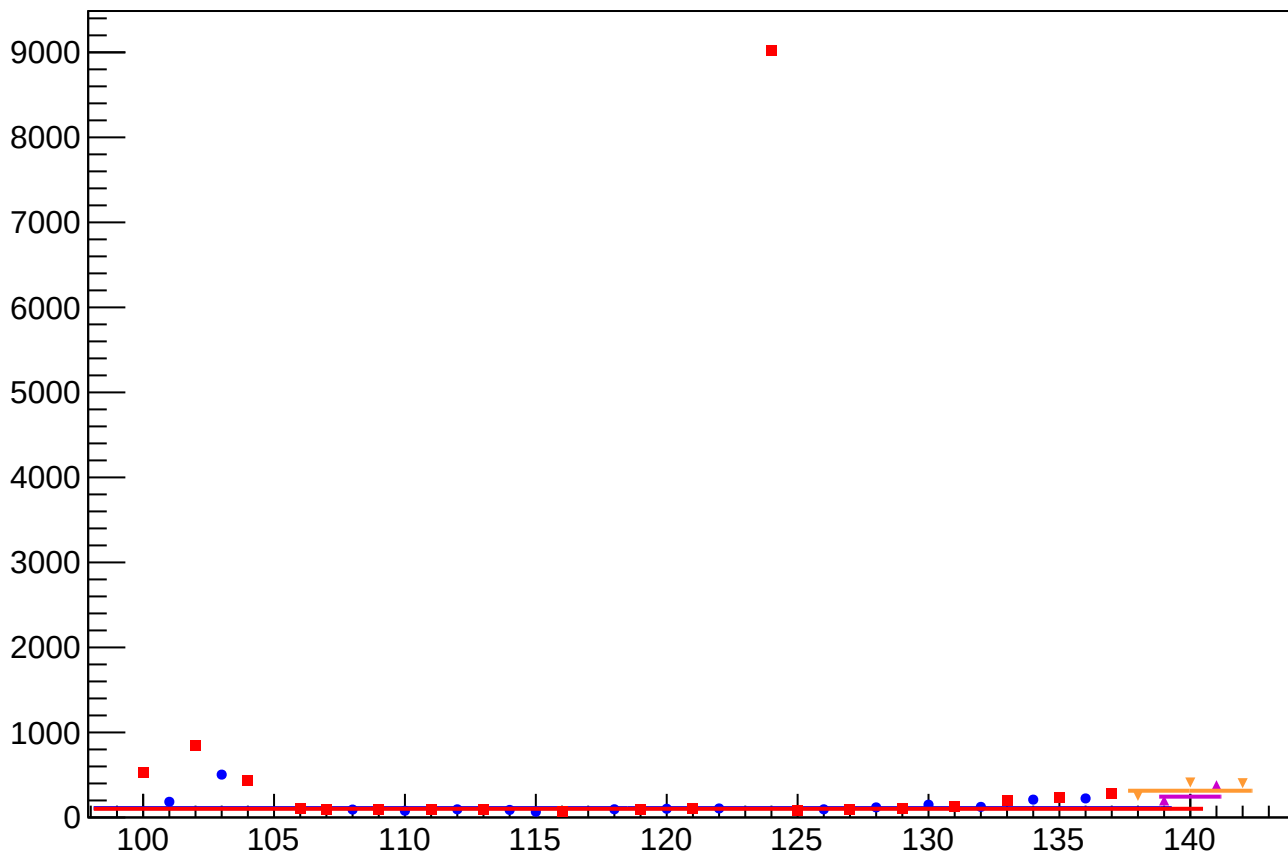
Right: 0.015 $\pm$ 0.031 χ^2 /NDF: 31.4/34

In: 0.046 $\pm$ 0.044 χ^2 /NDF:16.0/17

Out: -0.013 $\pm$ 0.043 χ^2 /NDF:27.5/21

All: 0.015 $\pm$ 0.031 χ^2 /NDF: 44.4/39

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.989+/-0.032 χ^2/NDF : 1930489.2/15

Left Out: 314.399+/-0.161 χ^2/NDF : 219624.9/2

Right Out: 101.853+/-0.031 χ^2/NDF : 2589710.5/18

Left In: 244.651+/-0.142 χ^2/NDF : 293515.2/1

Left: 275.185+/-0.107 χ^2/NDF : 618355.8/4

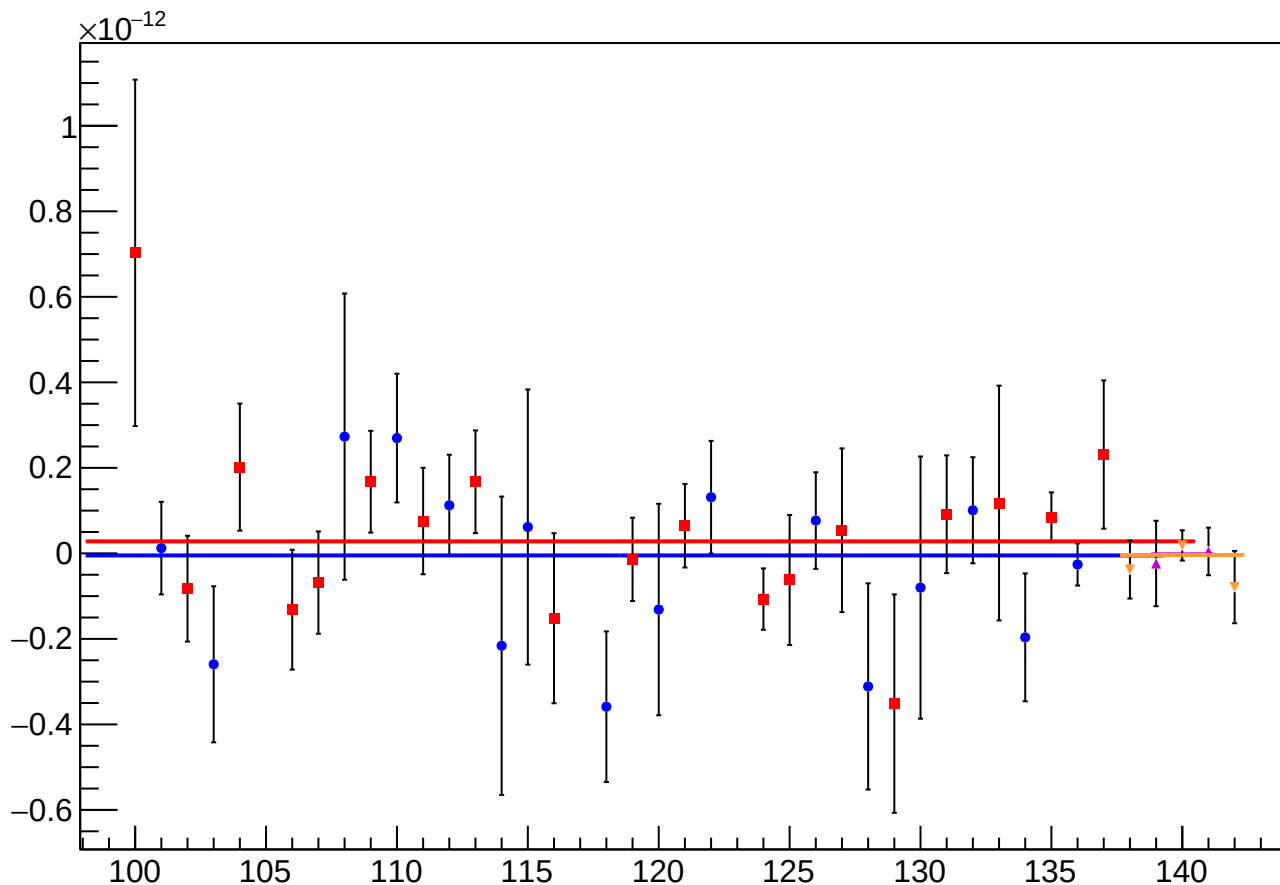
Right: 105.744+/-0.022 χ^2/NDF : 4553853.6/34

In: 116.486+/-0.031 χ^2/NDF : 3076680.7/17

Out: 109.275+/-0.030 χ^2/NDF : 4486489.9/21

All: 112.749+/-0.022 χ^2/NDF : 7590766.5/39

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 17.5/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 19.6/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.1/1

Left: -0.000+/-0.000 χ^2/NDF : 1.5/4

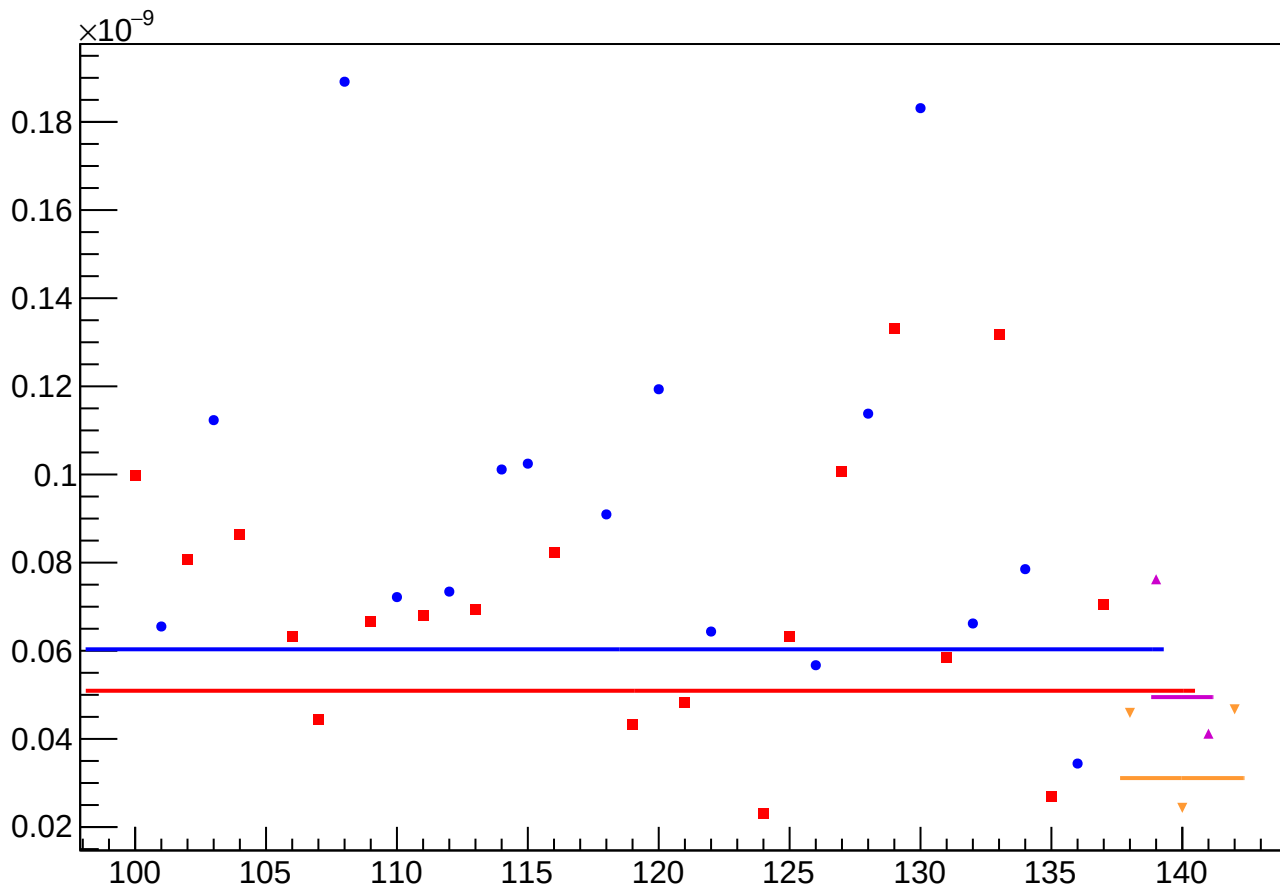
Right: 0.000+/-0.000 χ^2/NDF : 37.8/34

In: -0.000+/-0.000 χ^2/NDF : 17.6/17

Out: 0.000+/-0.000 χ^2/NDF : 21.7/21

All: 0.000+/-0.000 χ^2/NDF : 39.6/39

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1746170.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :236405.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1667004.7/18

Left In: 0.000+/-0.000 χ^2/NDF :187850.3/1

Left: 0.000+/-0.000 χ^2/NDF : 633663.3/4

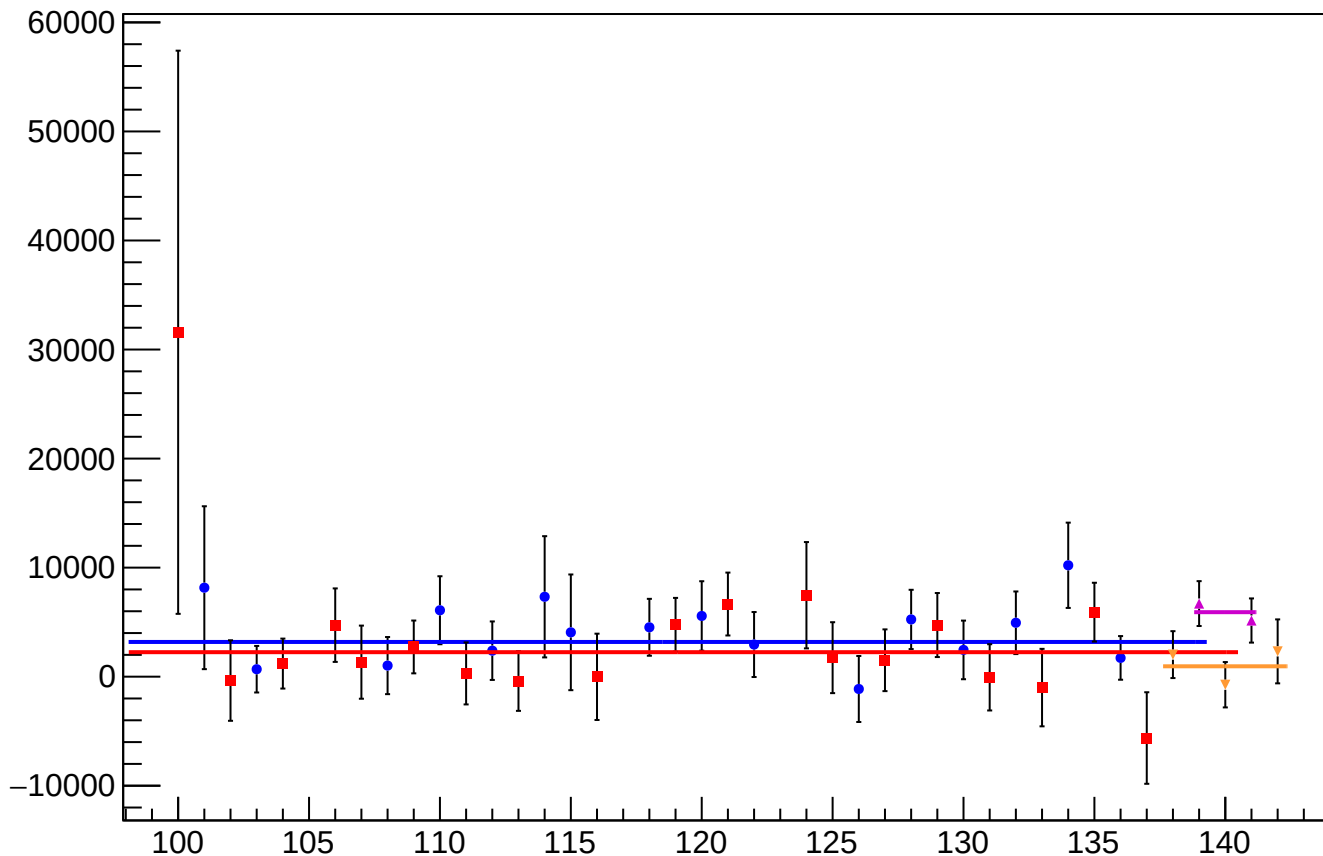
Right: 0.000+/-0.000 χ^2/NDF : 3514375.8/34

In: 0.000+/-0.000 χ^2/NDF :2003805.3/17

Out: 0.000+/-0.000 χ^2/NDF :2393060.9/21

All: 0.000+/-0.000 χ^2/NDF : 4820680.0/39

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3183.705+/-731.133 χ^2/NDF : 11.7/15

Left Out: 951.089+/-1331.928 χ^2/NDF : 1.1/2

Right Out: 2246.057+/-710.912 χ^2/NDF : 16.5/18

Left In: 5914.592+/-1443.519 χ^2/NDF : 0.3/1

Left: 3233.599+/-978.892 χ^2/NDF : 7.8/4

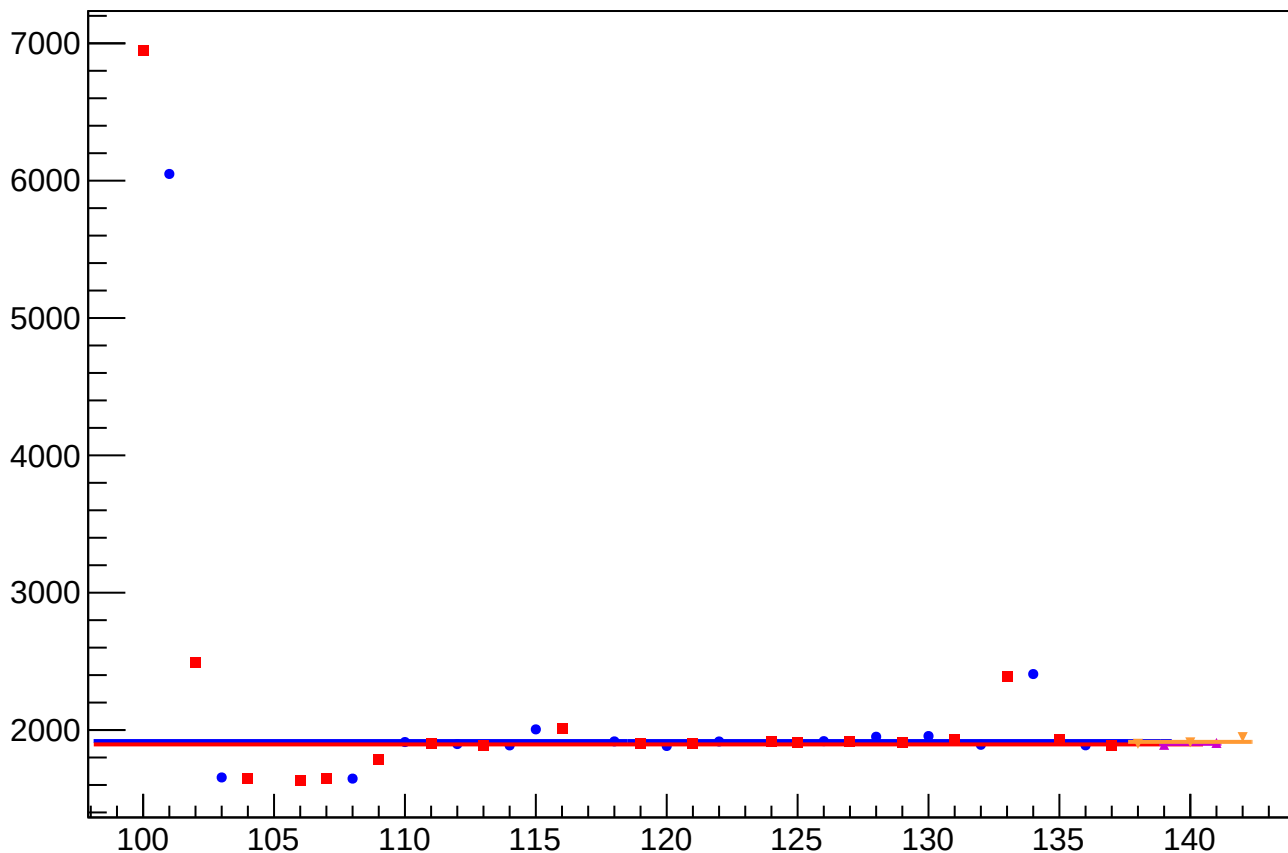
Right: 2701.735+/-509.689 χ^2/NDF : 29.1/34

In: 3741.246+/-652.242 χ^2/NDF : 14.8/17

Out: 1958.936+/-627.167 χ^2/NDF : 18.4/21

All: 2815.173+/-452.079 χ^2/NDF : 37.1/39

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1919.827+/-0.517 χ^2/NDF : 697331.5/15

Left Out: 1913.876+/-0.942 χ^2/NDF :366.7/2

Right Out: 1895.361+/-0.501 χ^2/NDF : 222273.9/18

Left In: 1899.488+/-1.021 χ^2/NDF :45.5/1

Left: 1907.259+/-0.692 χ^2/NDF : 519.5/4

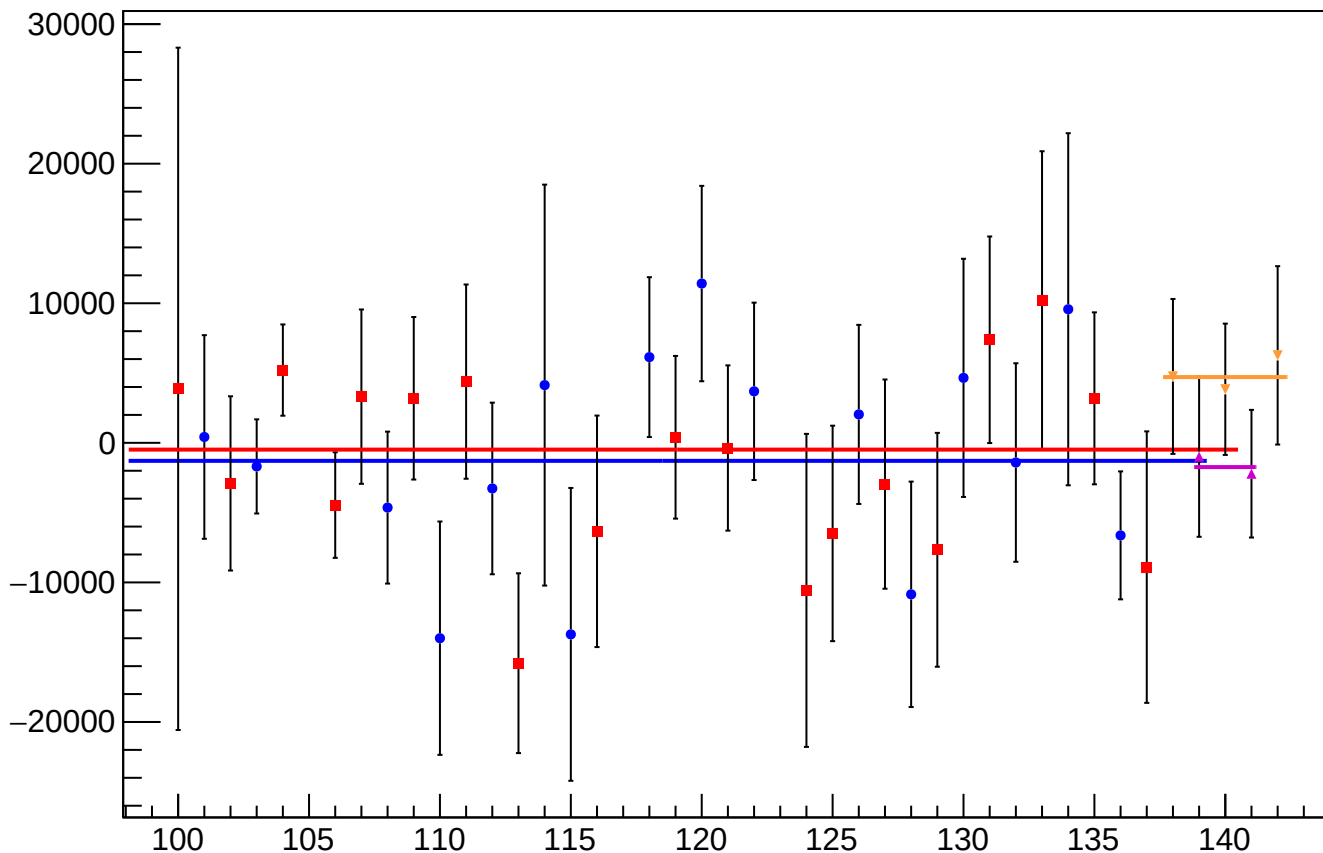
Right: 1907.209+/-0.360 χ^2/NDF : 920760.5/34

In: 1915.675+/-0.461 χ^2/NDF :697693.0/17

Out: 1899.444+/-0.442 χ^2/NDF :222941.8/21

All: 1907.220+/-0.319 χ^2/NDF : 921280.0/39

asym_atr_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1290.495+/-1585.432 χ^2/NDF : 14.3/15

Left Out: 4712.329+/-3128.663 χ^2/NDF : 0.1/2

Right Out: -485.214+/-1437.465 χ^2/NDF : 17.2/18

Left In: -1736.607+/-3578.241 χ^2/NDF : 0.0/1

Left: 1918.213+/-2355.308 χ^2/NDF : 2.0/4

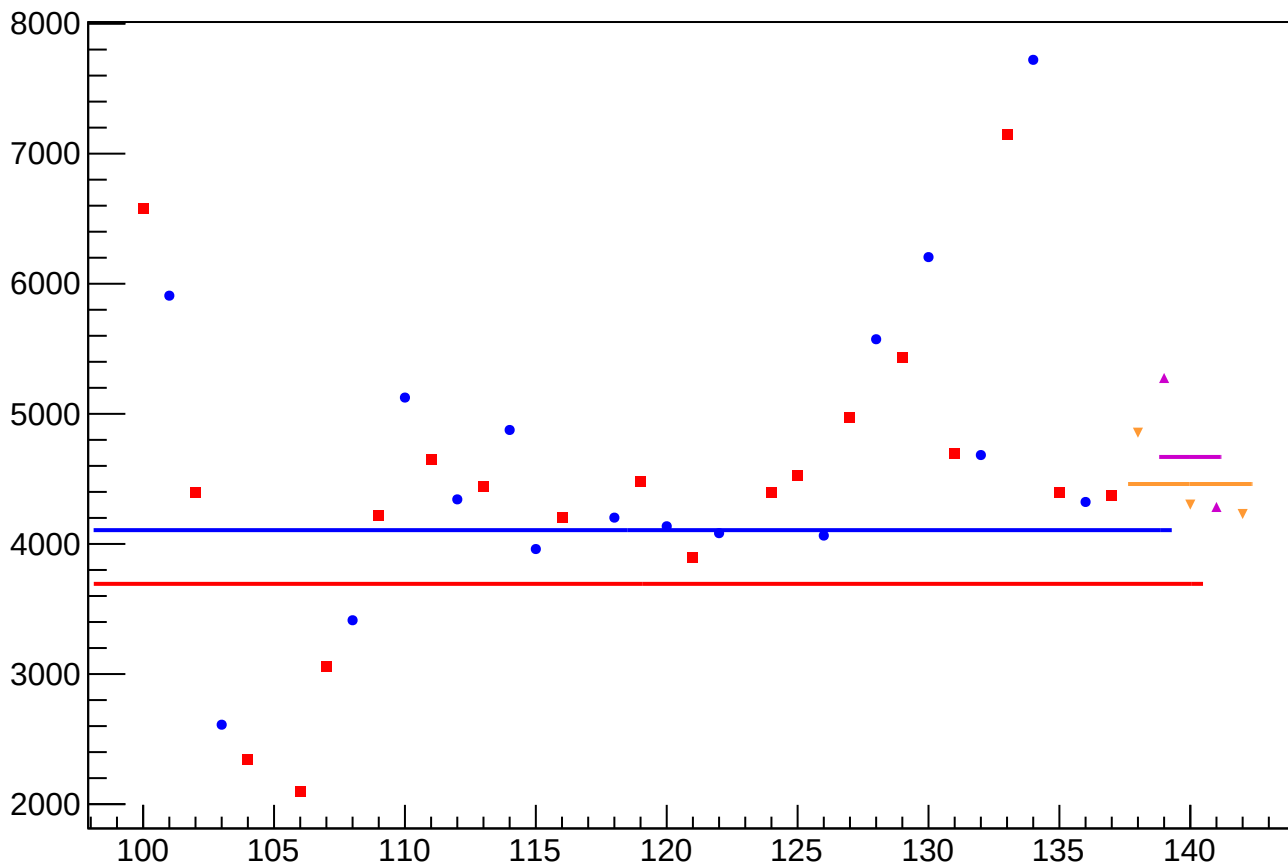
Right: -848.531+/-1064.920 χ^2/NDF : 31.6/34

In: -1363.702+/-1449.522 χ^2/NDF : 14.3/17

Out: 420.721+/-1306.196 χ^2/NDF : 19.6/21

All: -378.932+/-970.346 χ^2/NDF : 34.8/39

asym_atr_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 4106.141 $\pm$ 1.121 χ^2 /NDF: 956130.4/15

Left Out: 4460.788 $\pm$ 2.212 χ^2 /NDF:14969.8/2

Right Out: 3693.266 $\pm$ 1.016 χ^2 /NDF: 1356643.3/18

Left In: 4668.775 $\pm$ 2.530 χ^2 /NDF:36443.9/1

Left: 4550.902 $\pm$ 1.665 χ^2 /NDF: 55243.2/4

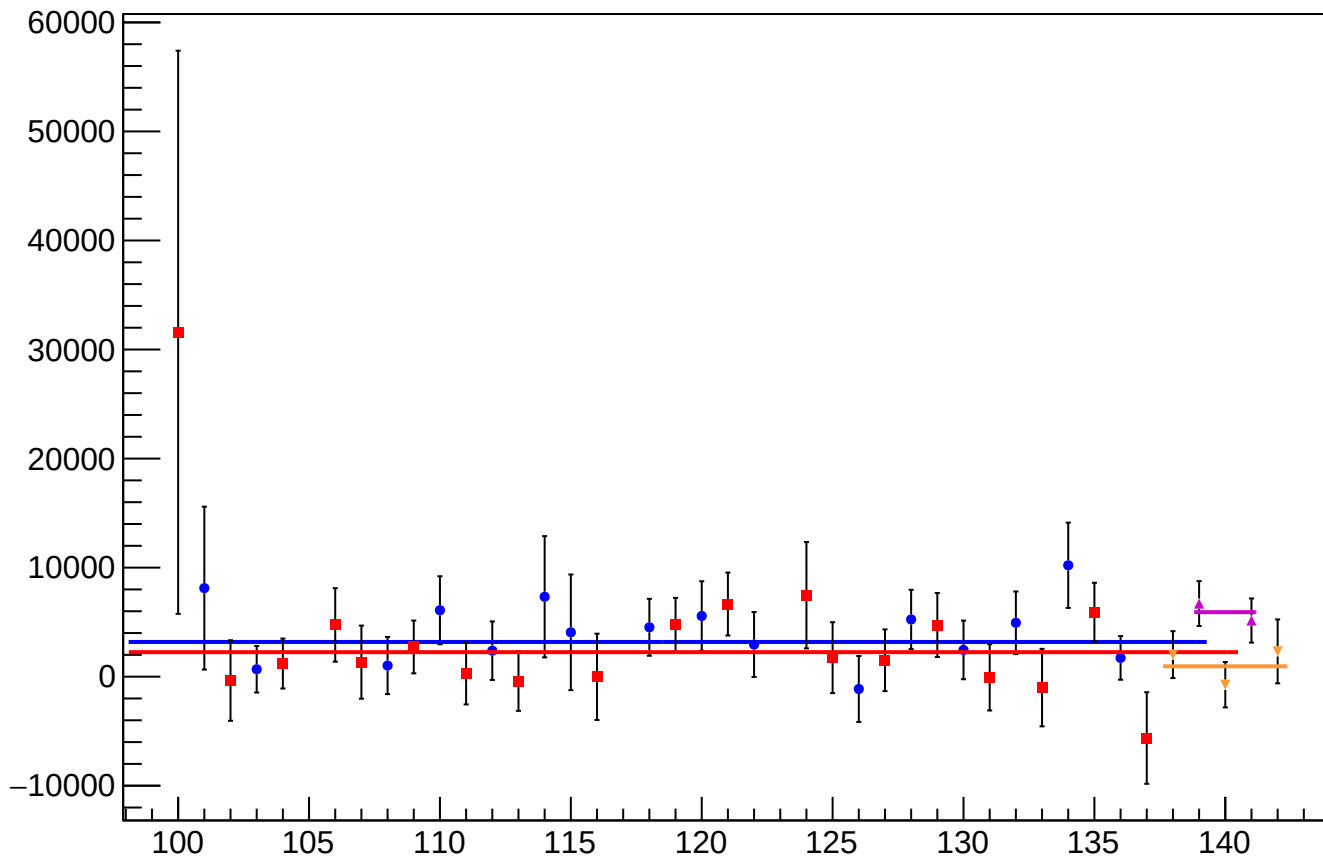
Right: 3879.542 $\pm$ 0.753 χ^2 /NDF: 2387214.5/34

In: 4198.470 $\pm$ 1.025 χ^2 /NDF:1033907.3/17

Out: 3827.046 $\pm$ 0.924 χ^2 /NDF:1470997.0/21

All: 3993.492 $\pm$ 0.686 χ^2 /NDF: 2577374.2/39

cor_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3182.973+/-731.133 χ^2/NDF : 11.7/15

Left Out: 950.931+/-1331.928 χ^2/NDF : 1.1/2

Right Out: 2247.193+/-710.916 χ^2/NDF : 16.5/18

Left In: 5914.957+/-1443.519 χ^2/NDF : 0.3/1

Left: 3233.681+/-978.892 χ^2/NDF : 7.8/4

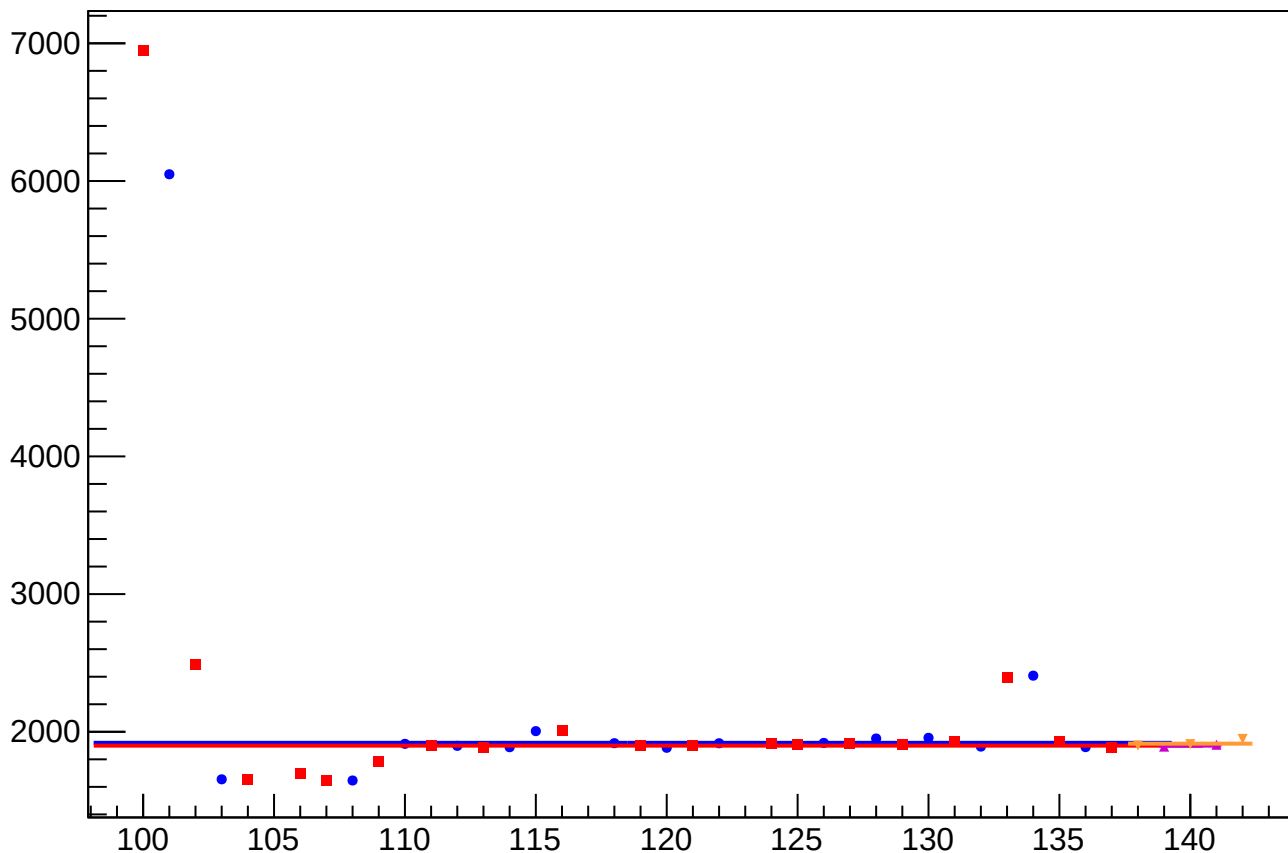
Right: 2701.966+/-509.691 χ^2/NDF : 29.1/34

In: 3740.738+/-652.242 χ^2/NDF : 14.8/17

Out: 1959.783+/-627.170 χ^2/NDF : 18.4/21

All: 2815.373+/-452.080 χ^2/NDF : 37.1/39

cor_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1919.827+/-0.517 χ^2/NDF : 697330.6/15

Left Out: 1913.876+/-0.942 χ^2/NDF :366.7/2

Right Out: 1899.364+/-0.502 χ^2/NDF : 215654.1/18

Left In: 1899.488+/-1.021 χ^2/NDF :45.5/1

Left: 1907.259+/-0.692 χ^2/NDF : 519.5/4

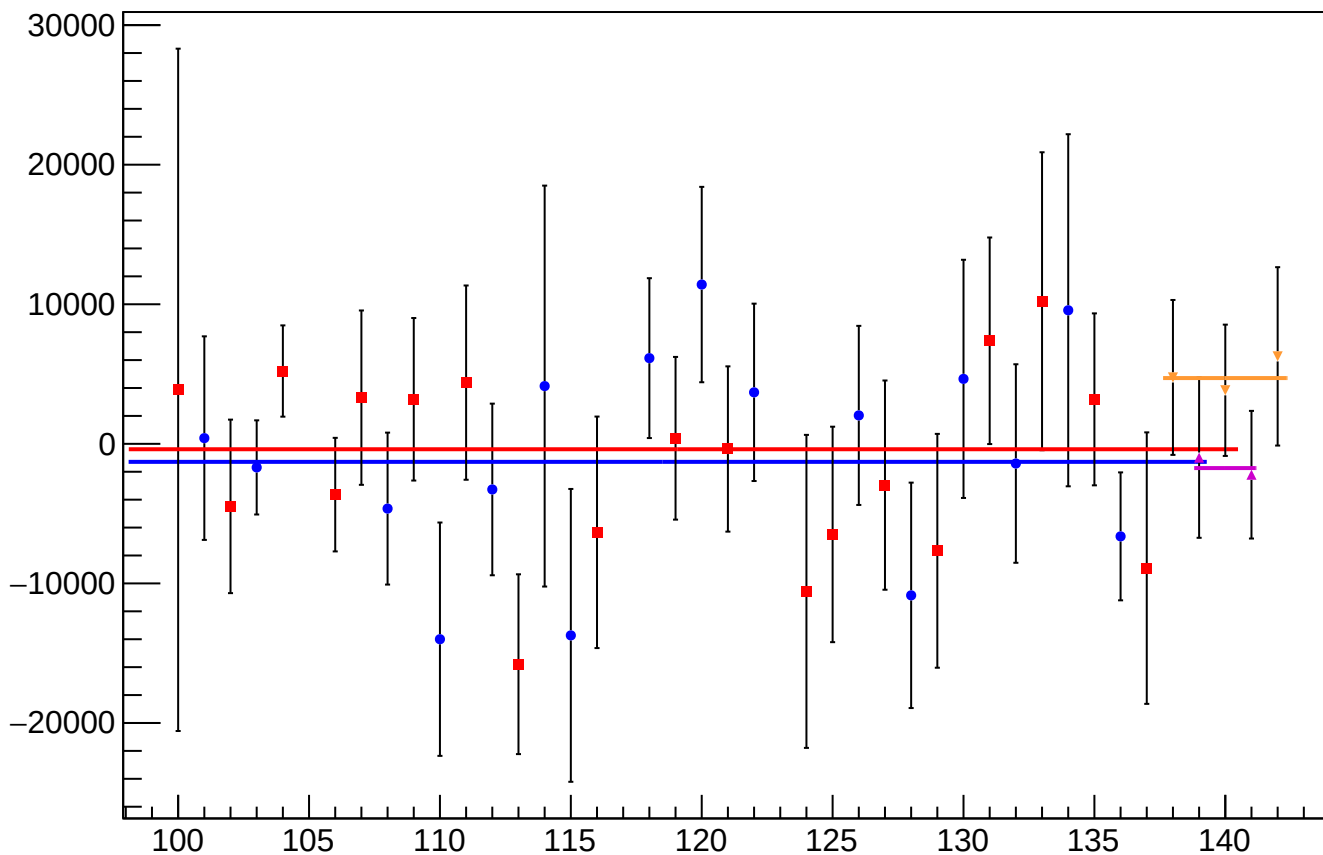
Right: 1909.293+/-0.360 χ^2/NDF : 913791.4/34

In: 1915.675+/-0.461 χ^2/NDF :697692.1/17

Out: 1902.573+/-0.443 χ^2/NDF :216205.7/21

All: 1908.859+/-0.319 χ^2/NDF : 914317.6/39

asym_atr_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1290.862 $\pm$ 1585.435 χ^2 /NDF: 14.3/15

Left Out: 4712.041 $\pm$ 3128.646 χ^2 /NDF:0.1/2

Right Out: -387.626 $\pm$ 1451.530 χ^2 /NDF: 17.0/18

Left In: -1736.830 $\pm$ 3578.243 χ^2 /NDF:0.0/1

Left: 1917.973 $\pm$ 2355.302 χ^2 /NDF: 2.0/4

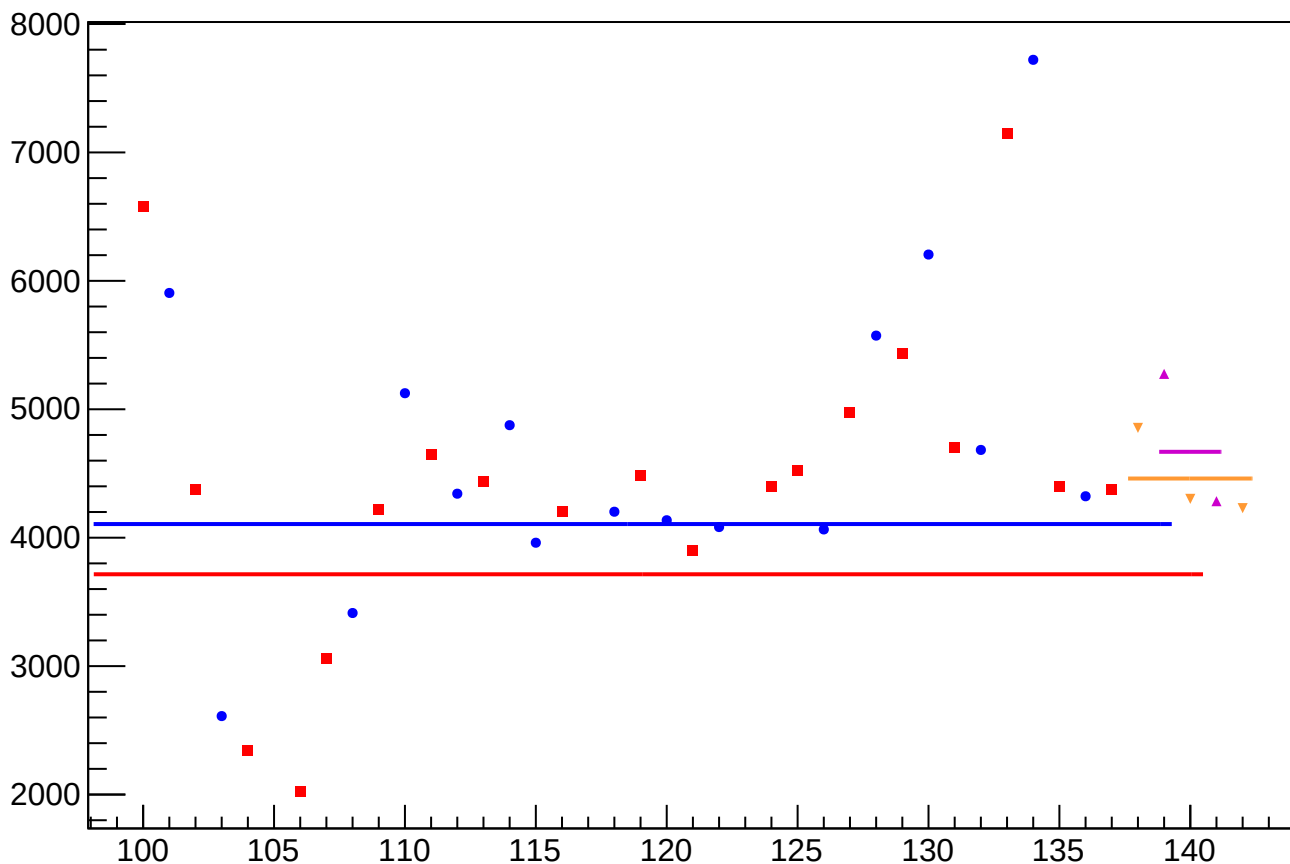
Right: -799.497 $\pm$ 1070.602 χ^2 /NDF: 31.4/34

In: -1364.046 $\pm$ 1449.524 χ^2 /NDF:14.3/17

Out: 515.641 $\pm$ 1316.721 χ^2 /NDF:19.3/21

All: -334.169 $\pm$ 974.638 χ^2 /NDF: 34.5/39

asym_atr_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 4106.234 $\pm$ 1.121 χ^2/NDF : 955631.2/15

Left Out: 4460.762 $\pm$ 2.212 χ^2/NDF : 14970.8/2

Right Out: 3715.202 $\pm$ 1.026 χ^2/NDF : 1335100.7/18

Left In: 4668.777 $\pm$ 2.530 χ^2/NDF : 36445.4/1

Left: 4550.887 $\pm$ 1.665 χ^2/NDF : 55246.7/4

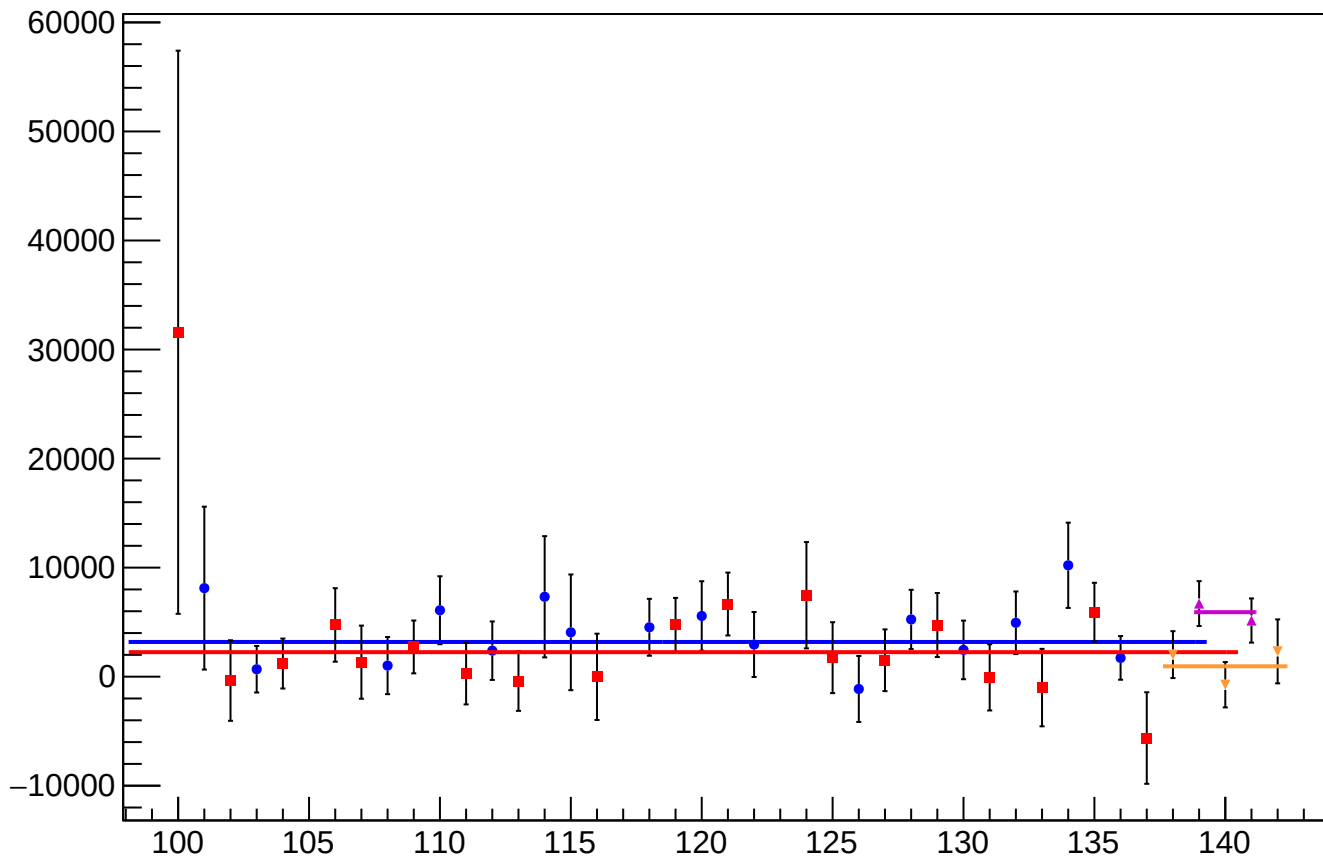
Right: 3893.510 $\pm$ 0.757 χ^2/NDF : 2356917.1/34

In: 4198.548 $\pm$ 1.025 χ^2/NDF : 1033396.1/17

Out: 3847.258 $\pm$ 0.931 χ^2/NDF : 1443529.5/21

All: 4006.077 $\pm$ 0.689 χ^2/NDF : 2541284.8/39

eigen_cor_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3182.973+/-731.133 χ^2/NDF : 11.7/15

Left Out: 950.931+/-1331.928 χ^2/NDF : 1.1/2

Right Out: 2247.193+/-710.916 χ^2/NDF : 16.5/18

Left In: 5914.957+/-1443.519 χ^2/NDF : 0.3/1

Left: 3233.681+/-978.892 χ^2/NDF : 7.8/4

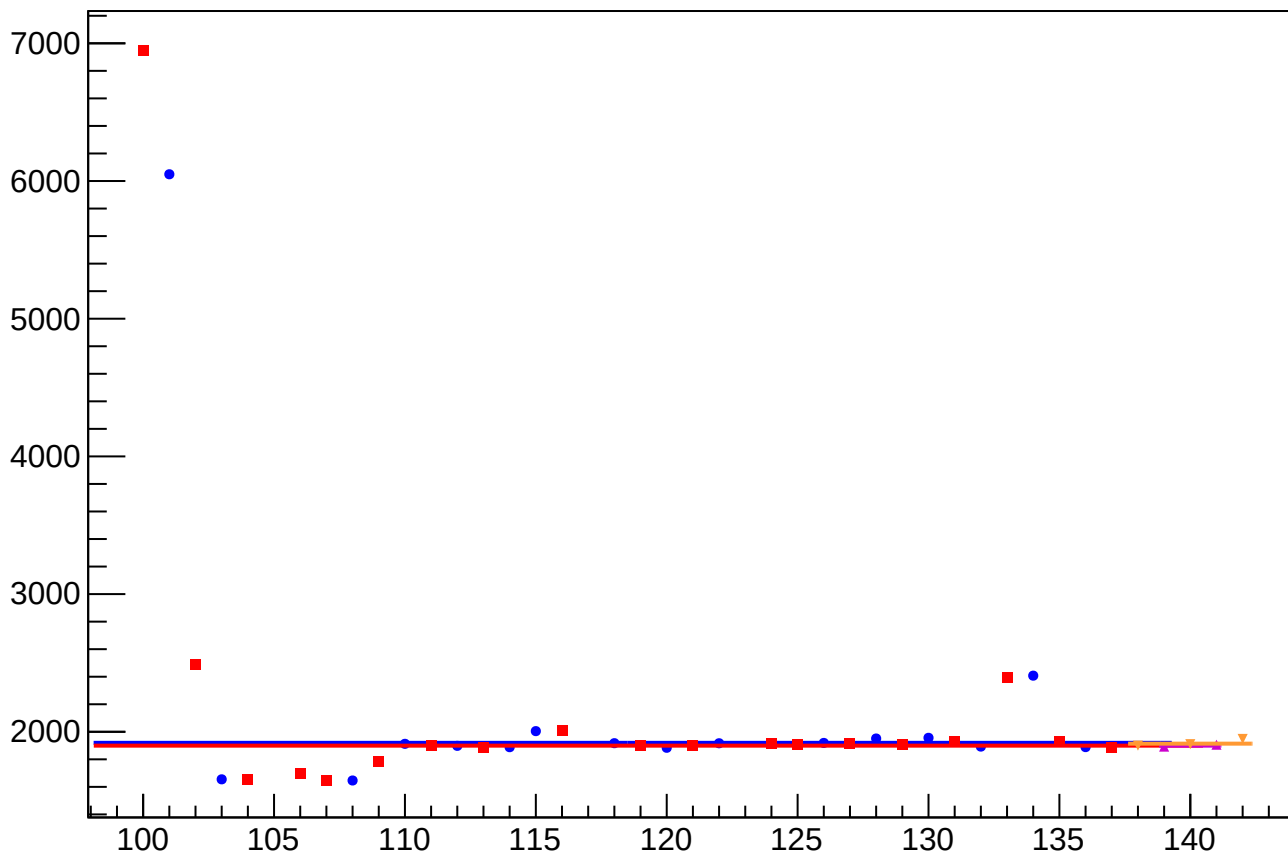
Right: 2701.966+/-509.691 χ^2/NDF : 29.1/34

In: 3740.738+/-652.242 χ^2/NDF : 14.8/17

Out: 1959.783+/-627.170 χ^2/NDF : 18.4/21

All: 2815.373+/-452.080 χ^2/NDF : 37.1/39

eigen_cor_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1919.827+/-0.517 χ^2/NDF : 697330.6/15

Left Out: 1913.876+/-0.942 χ^2/NDF :366.7/2

Right Out: 1899.364+/-0.502 χ^2/NDF : 215654.1/18

Left In: 1899.488+/-1.021 χ^2/NDF :45.5/1

Left: 1907.259+/-0.692 χ^2/NDF : 519.5/4

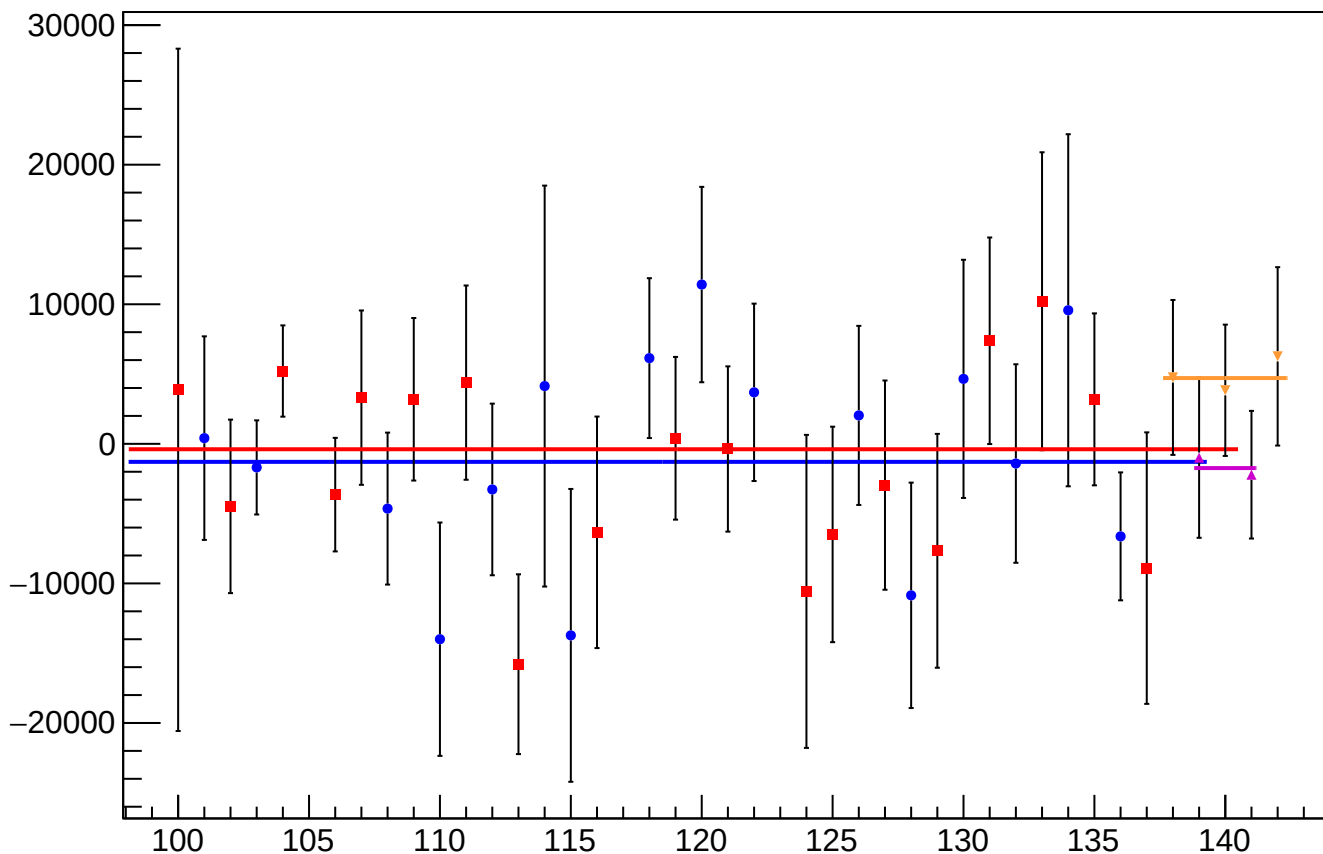
Right: 1909.293+/-0.360 χ^2/NDF : 913791.4/34

In: 1915.675+/-0.461 χ^2/NDF :697692.1/17

Out: 1902.573+/-0.443 χ^2/NDF :216205.7/21

All: 1908.859+/-0.319 χ^2/NDF : 914317.6/39

asym_atr_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1290.862+/-1585.435 χ^2/NDF : 14.3/15

Left Out: 4712.041+/-3128.646 χ^2/NDF : 0.1/2

Right Out: -387.626+/-1451.530 χ^2/NDF : 17.0/18

Left In: -1736.830+/-3578.243 χ^2/NDF : 0.0/1

Left: 1917.973+/-2355.302 χ^2/NDF : 2.0/4

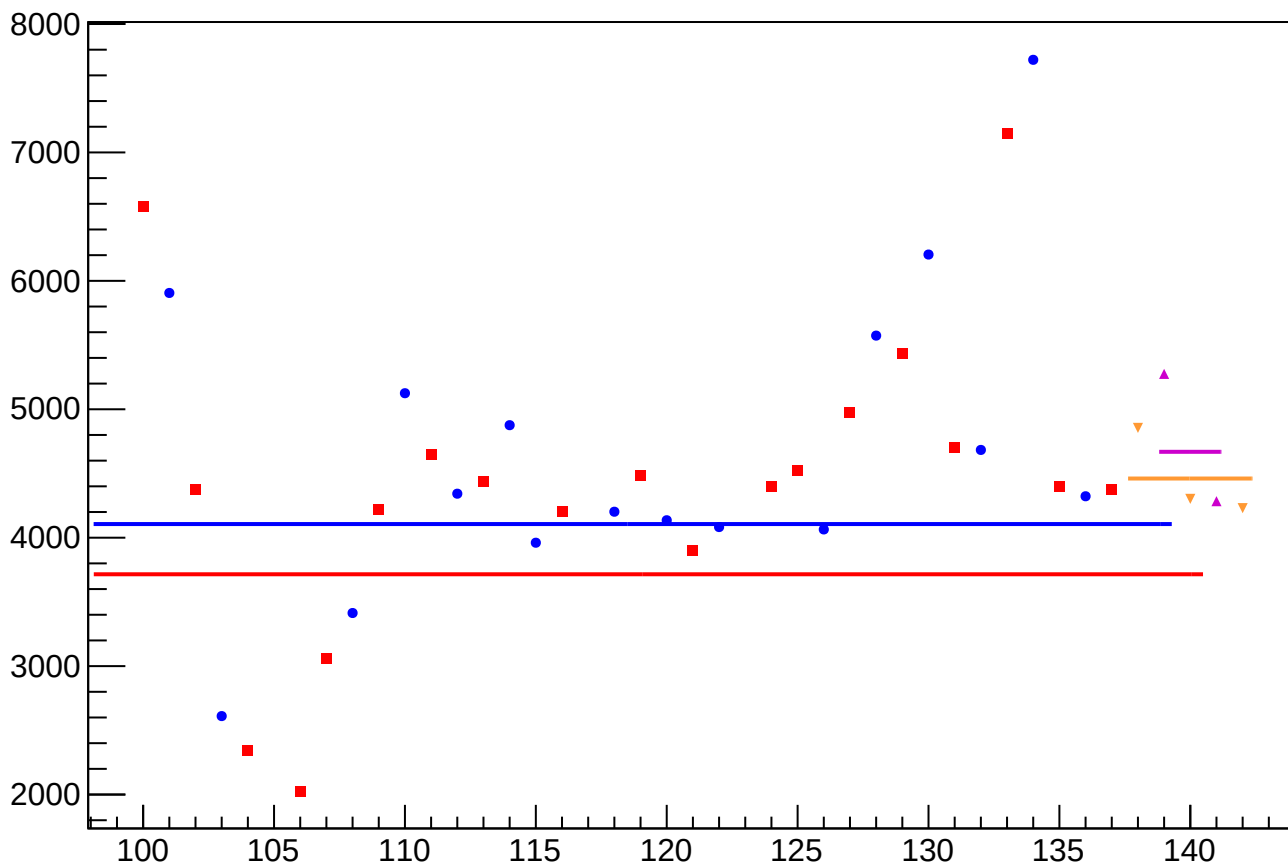
Right: -799.497+/-1070.602 χ^2/NDF : 31.4/34

In: -1364.046+/-1449.524 χ^2/NDF : 14.3/17

Out: 515.641+/-1316.721 χ^2/NDF : 19.3/21

All: -334.169+/-974.638 χ^2/NDF : 34.5/39

asym_atr_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 4106.234+/-1.121 χ^2/NDF : 955631.2/15

Left Out: 4460.762+/-2.212 χ^2/NDF : 14970.8/2

Right Out: 3715.202+/-1.026 χ^2/NDF : 1335100.7/18

Left In: 4668.777+/-2.530 χ^2/NDF : 36445.4/1

Left: 4550.887+/-1.665 χ^2/NDF : 55246.7/4

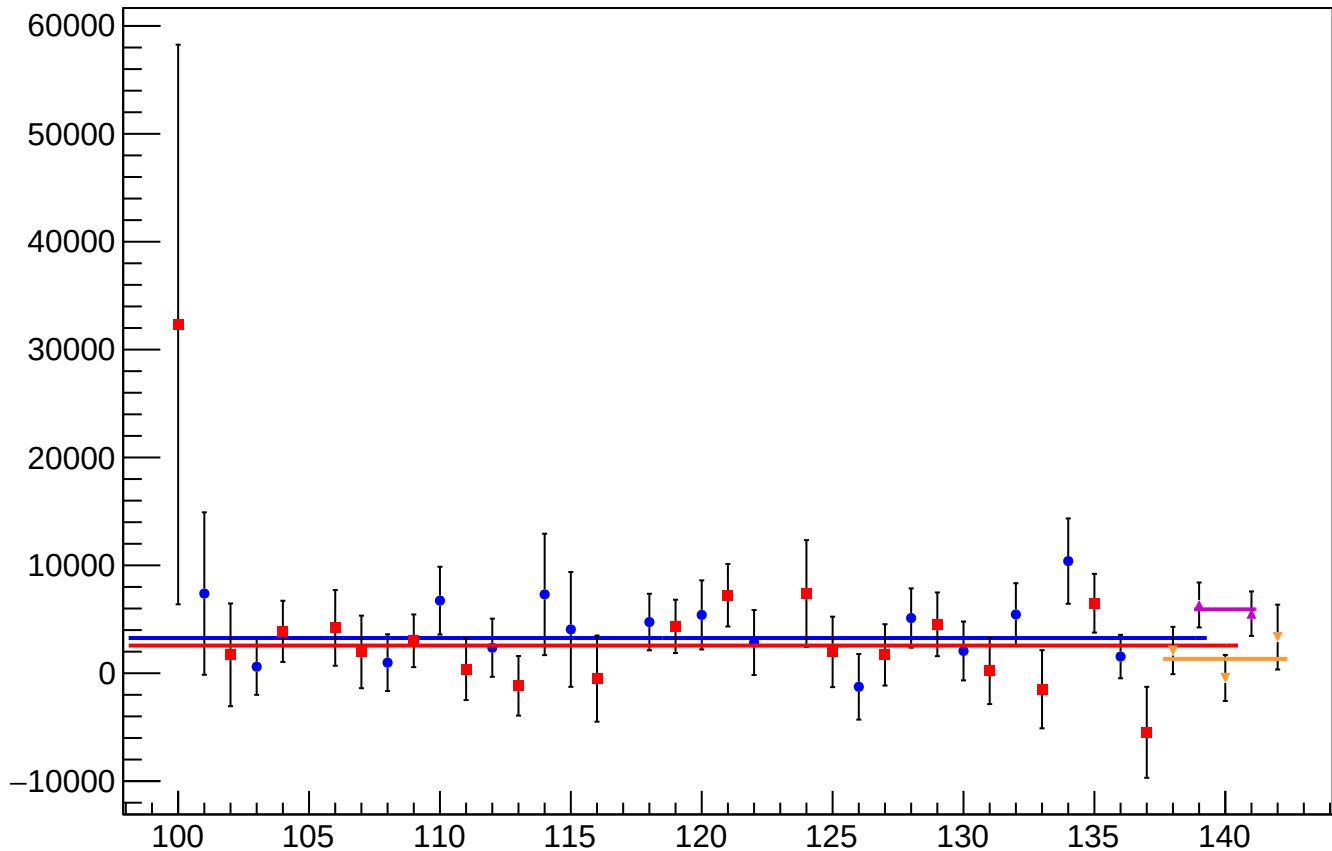
Right: 3893.510+/-0.757 χ^2/NDF : 2356917.1/34

In: 4198.548+/-1.025 χ^2/NDF : 1033396.1/17

Out: 3847.258+/-0.931 χ^2/NDF : 1443529.5/21

All: 4006.077+/-0.689 χ^2/NDF : 2541284.8/39

dit_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3264.639+/-750.865 χ^2/NDF : 12.2/15

Left Out: 1327.415+/-1364.482 χ^2/NDF : 1.3/2

Right Out: 2566.683+/-734.876 χ^2/NDF : 17.0/18

Left In: 5921.866+/-1464.912 χ^2/NDF : 0.1/1

Left: 3461.765+/-998.453 χ^2/NDF : 6.6/4

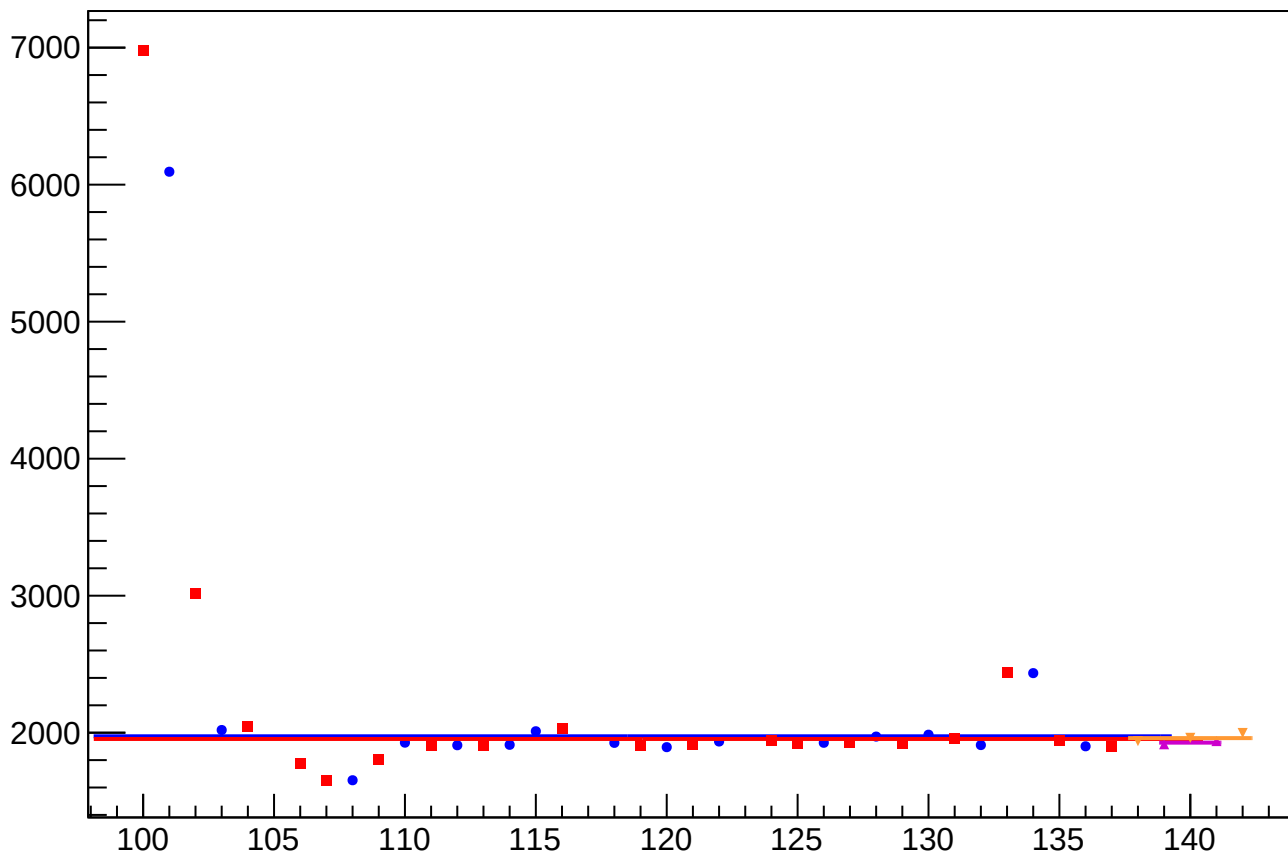
Right: 2908.151+/-525.197 χ^2/NDF : 29.6/34

In: 3817.506+/-668.202 χ^2/NDF : 14.8/17

Out: 2288.041+/-647.006 χ^2/NDF : 18.9/21

All: 3028.132+/-464.815 χ^2/NDF : 36.5/39

dit_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1973.748 $\pm$ 0.531 χ^2 /NDF: 665124.2/15

Left Out: 1960.500 $\pm$ 0.965 χ^2 /NDF: 510.6/2

Right Out: 1954.339 $\pm$ 0.519 χ^2 /NDF: 246211.3/18

Left In: 1927.537 $\pm$ 1.036 χ^2 /NDF: 126.1/1

Left: 1945.187 $\pm$ 0.706 χ^2 /NDF: 1179.0/4

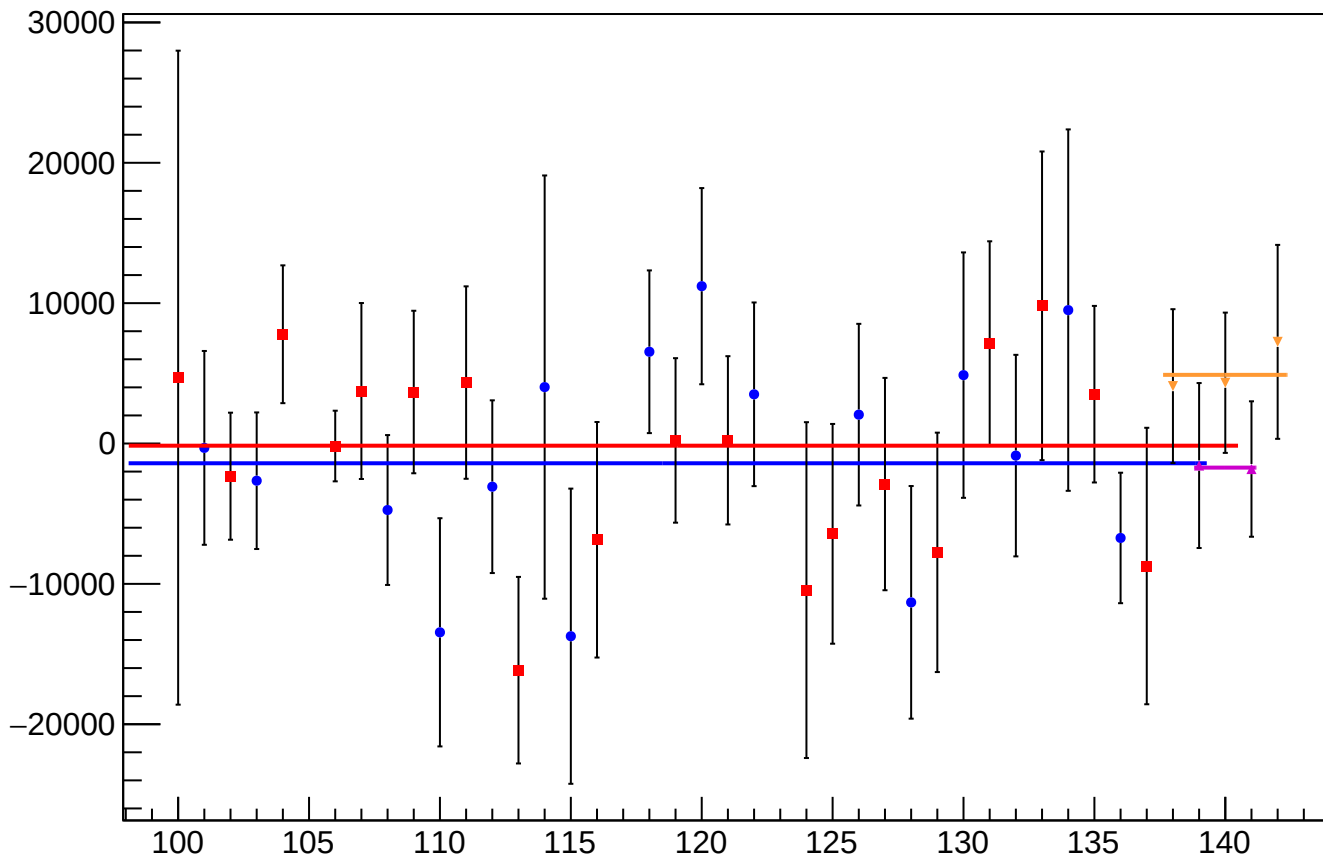
Right: 1963.826 $\pm$ 0.371 χ^2 /NDF: 912018.7/34

In: 1964.133 $\pm$ 0.472 χ^2 /NDF: 666826.5/17

Out: 1955.722 $\pm$ 0.457 χ^2 /NDF: 246753.6/21

All: 1959.789 $\pm$ 0.329 χ^2 /NDF: 913743.8/39

asym_atr_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1407.382+/-1689.989 χ^2/NDF : 14.2/15

Left Out: 4891.272+/-3257.005 χ^2/NDF : 0.1/2

Right Out: -155.271+/-1363.642 χ^2/NDF : 15.8/18

Left In: -1717.450+/-3729.023 χ^2/NDF : 0.0/1

Left: 2031.407+/-2453.065 χ^2/NDF : 1.9/4

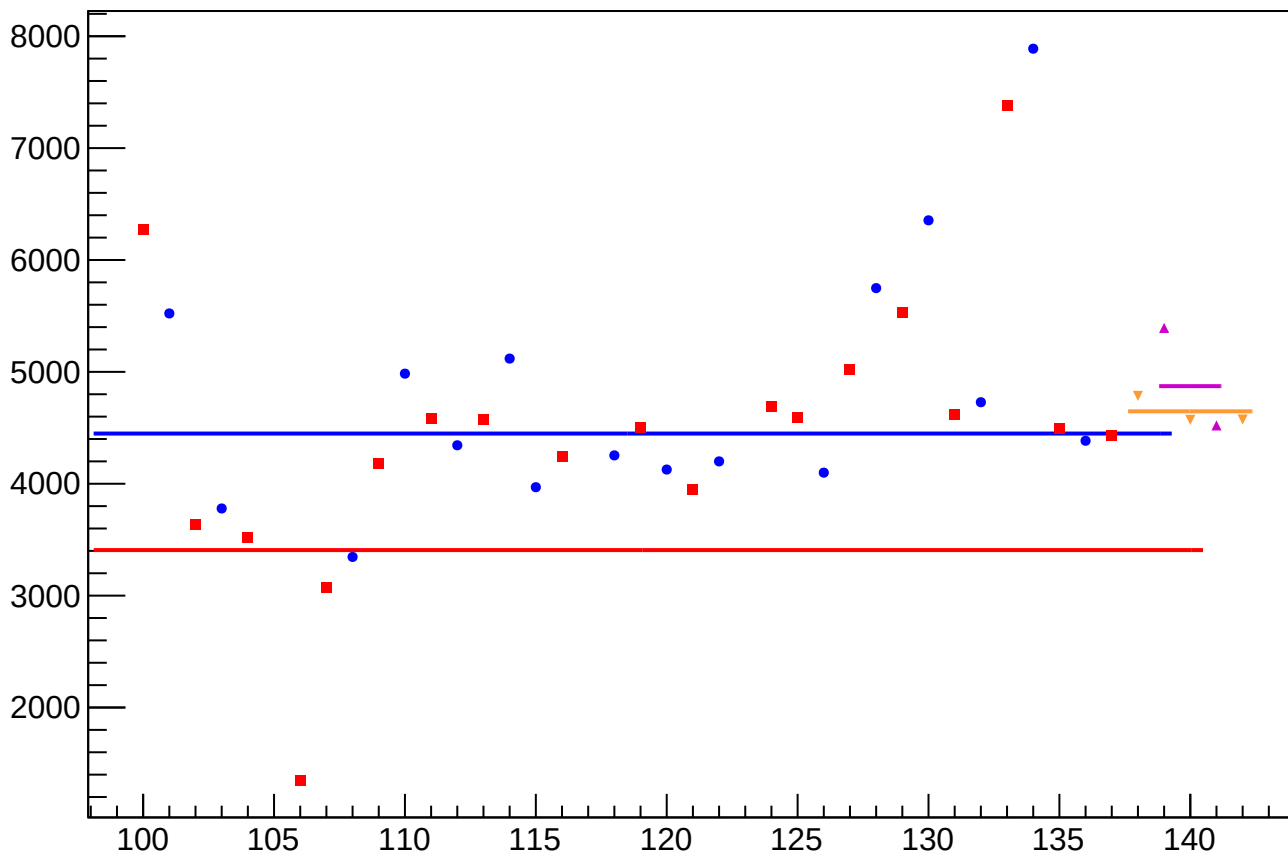
Right: -649.023+/-1061.247 χ^2/NDF : 30.4/34

In: -1460.215+/-1539.289 χ^2/NDF : 14.2/17

Out: 597.412+/-1257.846 χ^2/NDF : 18.0/21

All: -226.442+/-974.006 χ^2/NDF : 33.3/39

asym_atr_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 4448.711+/-1.195 χ^2/NDF : 494613.5/15

Left Out: 4647.336+/-2.303 χ^2/NDF :1948.3/2

Right Out: 3407.128+/-0.964 χ^2/NDF : 2326060.4/18

Left In: 4872.373+/-2.637 χ^2/NDF :26284.5/1

Left: 4744.719+/-1.735 χ^2/NDF : 32364.4/4

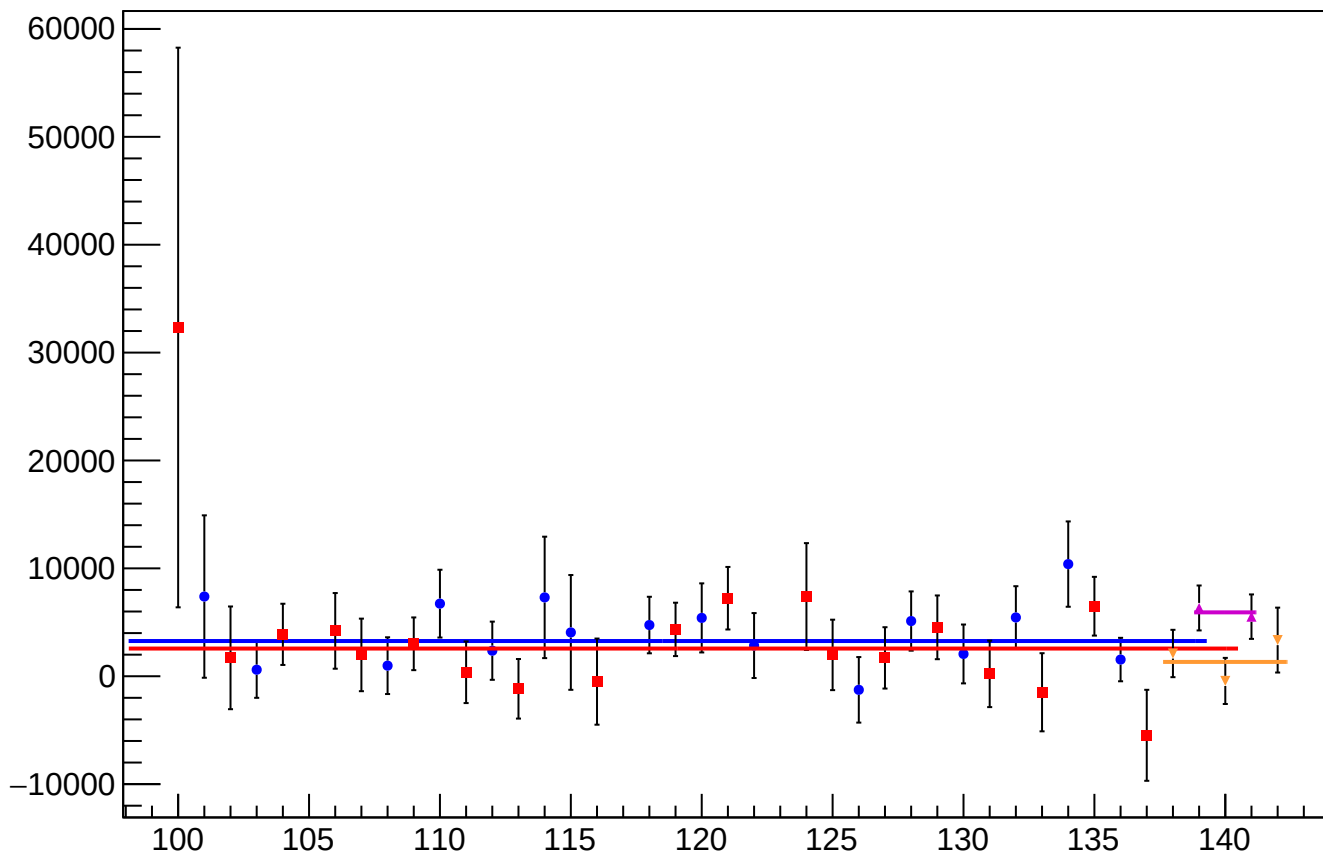
Right: 3817.861+/-0.750 χ^2/NDF : 3280806.0/34

In: 4520.900+/-1.088 χ^2/NDF :542314.6/17

Out: 3592.103+/-0.889 χ^2/NDF :2574746.9/21

All: 3963.984+/-0.689 χ^2/NDF : 3553678.0/39

eigen_dit_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3264.644+/-750.865 χ^2/NDF : 12.2/15

Left Out: 1327.424+/-1364.482 χ^2/NDF : 1.3/2

Right Out: 2566.689+/-734.875 χ^2/NDF : 17.0/18

Left In: 5921.844+/-1464.912 χ^2/NDF : 0.1/1

Left: 3461.759+/-998.453 χ^2/NDF : 6.6/4

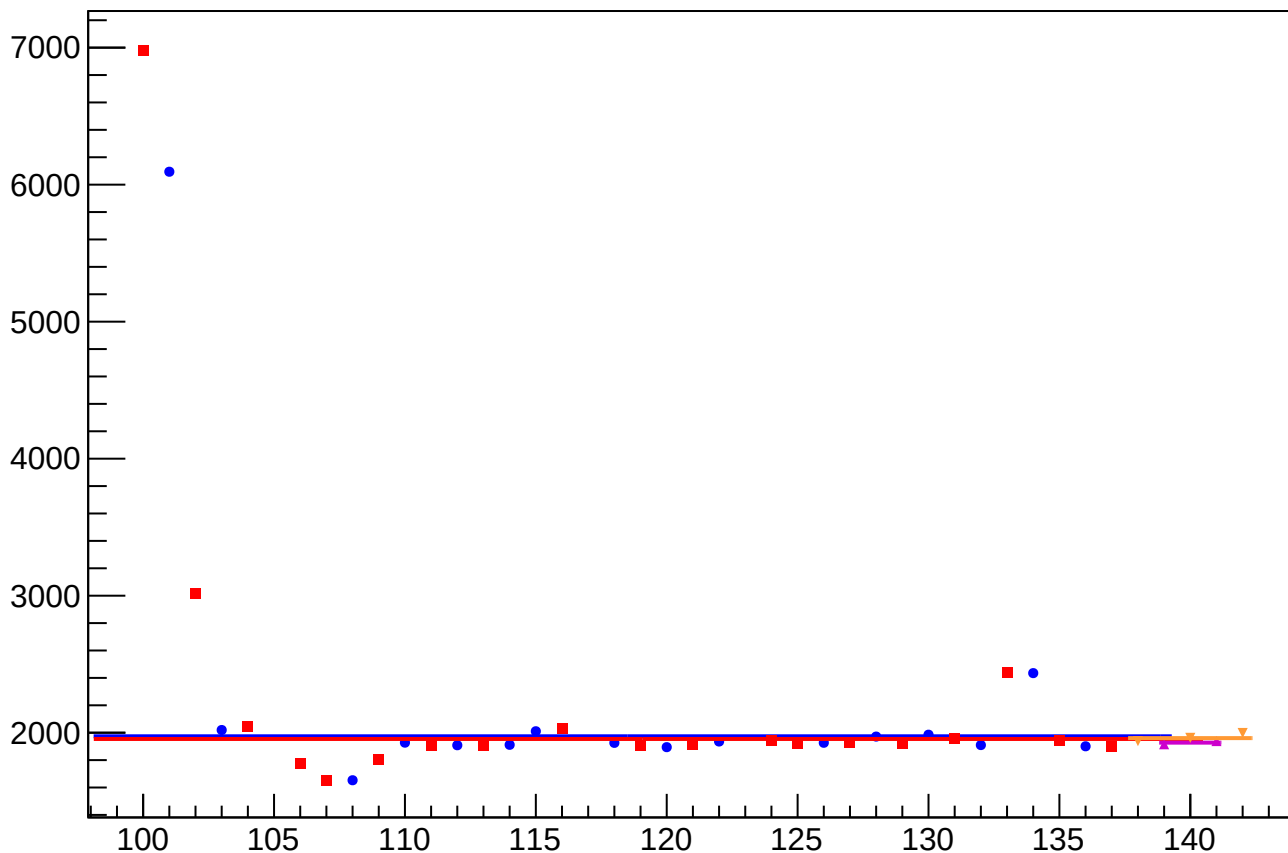
Right: 2908.156+/-525.197 χ^2/NDF : 29.6/34

In: 3817.505+/-668.202 χ^2/NDF : 14.8/17

Out: 2288.048+/-647.006 χ^2/NDF : 18.9/21

All: 3028.135+/-464.815 χ^2/NDF : 36.5/39

eigen_dit_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1973.748+/-0.531 χ^2/NDF : 665124.2/15

Left Out: 1960.500+/-0.965 χ^2/NDF : 510.6/2

Right Out: 1954.339+/-0.519 χ^2/NDF : 246210.8/18

Left In: 1927.537+/-1.036 χ^2/NDF : 126.1/1

Left: 1945.187+/-0.706 χ^2/NDF : 1179.0/4

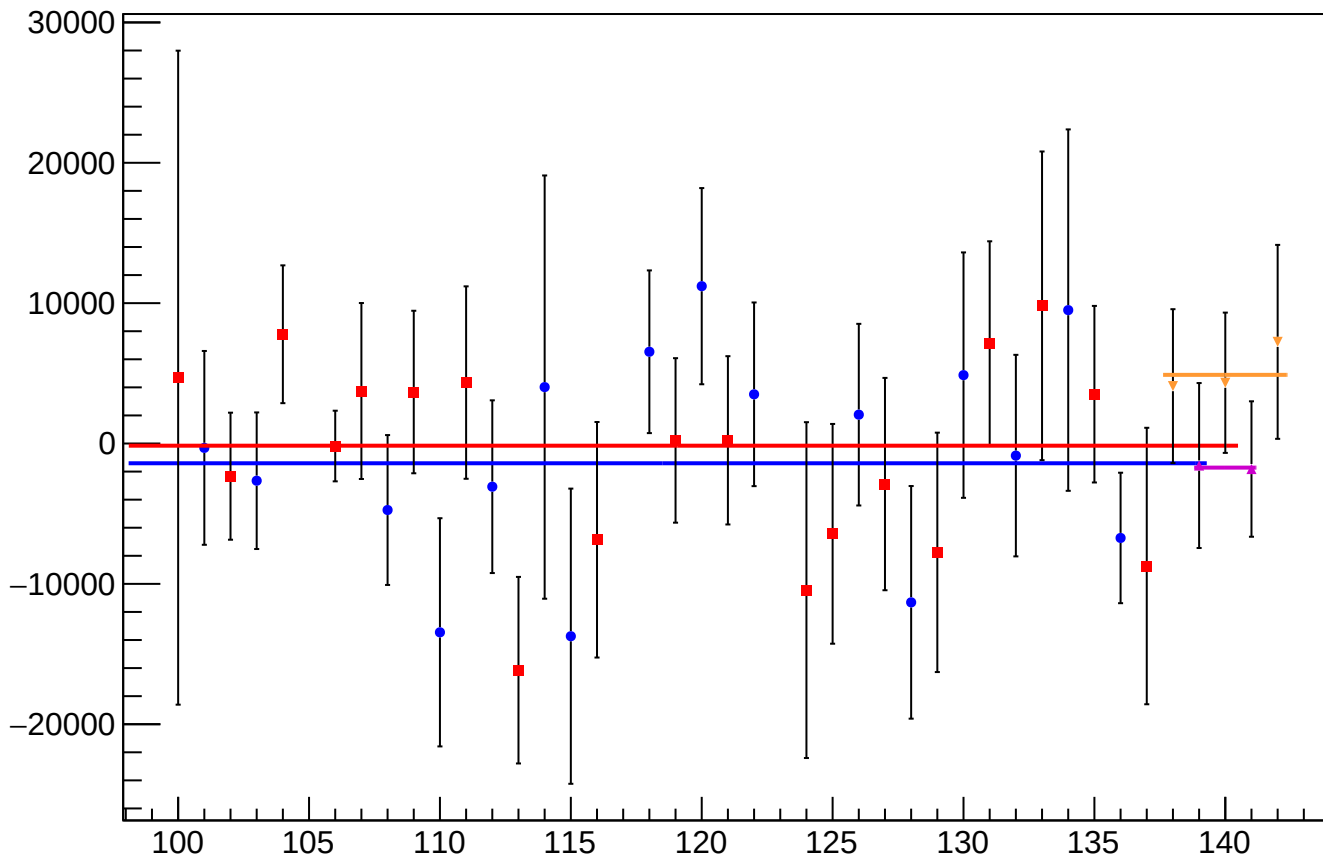
Right: 1963.826+/-0.371 χ^2/NDF : 912018.2/34

In: 1964.133+/-0.472 χ^2/NDF : 666826.5/17

Out: 1955.722+/-0.457 χ^2/NDF : 246753.1/21

All: 1959.789+/-0.329 χ^2/NDF : 913743.2/39

asym_atr_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1407.363+/-1689.986 χ^2/NDF : 14.2/15

Left Out: 4891.283+/-3257.006 χ^2/NDF : 0.1/2

Right Out: -155.272+/-1363.639 χ^2/NDF : 15.8/18

Left In: -1717.471+/-3729.026 χ^2/NDF : 0.0/1

Left: 2031.405+/-2453.067 χ^2/NDF : 1.9/4

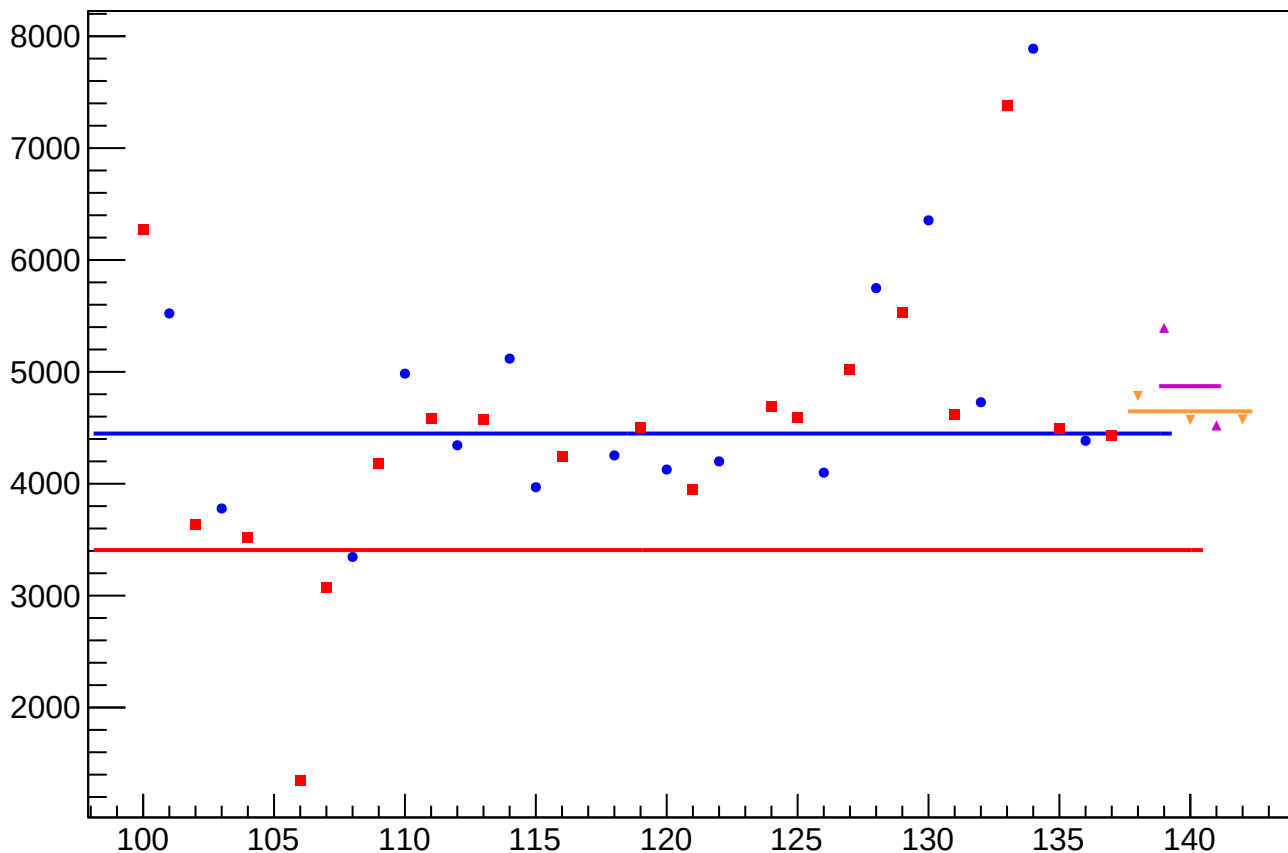
Right: -649.016+/-1061.245 χ^2/NDF : 30.4/34

In: -1460.203+/-1539.287 χ^2/NDF : 14.2/17

Out: 597.409+/-1257.844 χ^2/NDF : 18.0/21

All: -226.438+/-974.005 χ^2/NDF : 33.3/39

asym_atr_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 4448.704+/-1.195 χ^2/NDF : 494610.6/15

Left Out: 4647.339+/-2.303 χ^2/NDF : 1948.3/2

Right Out: 3407.120+/-0.964 χ^2/NDF : 2326064.2/18

Left In: 4872.376+/-2.637 χ^2/NDF : 26285.0/1

Left: 4744.722+/-1.735 χ^2/NDF : 32365.1/4

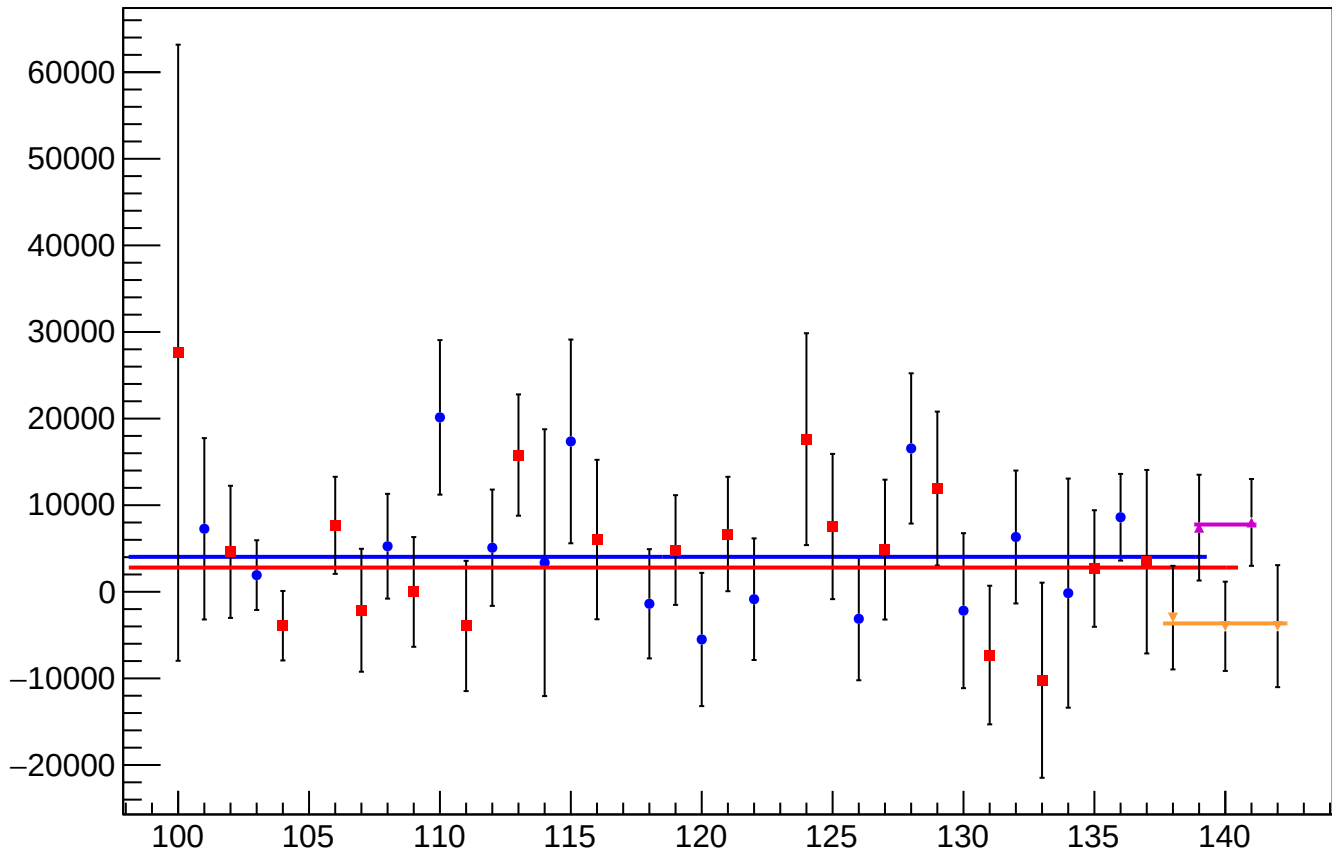
Right: 3817.853+/-0.750 χ^2/NDF : 3280809.4/34

In: 4520.894+/-1.088 χ^2/NDF : 542313.3/17

Out: 3592.095+/-0.889 χ^2/NDF : 2574755.0/21

All: 3963.977+/-0.689 χ^2/NDF : 3553687.6/39

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 4034.572+/-1782.030 χ^2/NDF : 12.3/15

Left Out: -3654.593+/-3414.577 χ^2/NDF : 0.0/2

Right Out: 2800.547+/-1671.877 χ^2/NDF : 15.4/18

Left In: 7767.364+/-3875.090 χ^2/NDF : 0.0/1

Left: 1337.690+/-2561.894 χ^2/NDF : 4.9/4

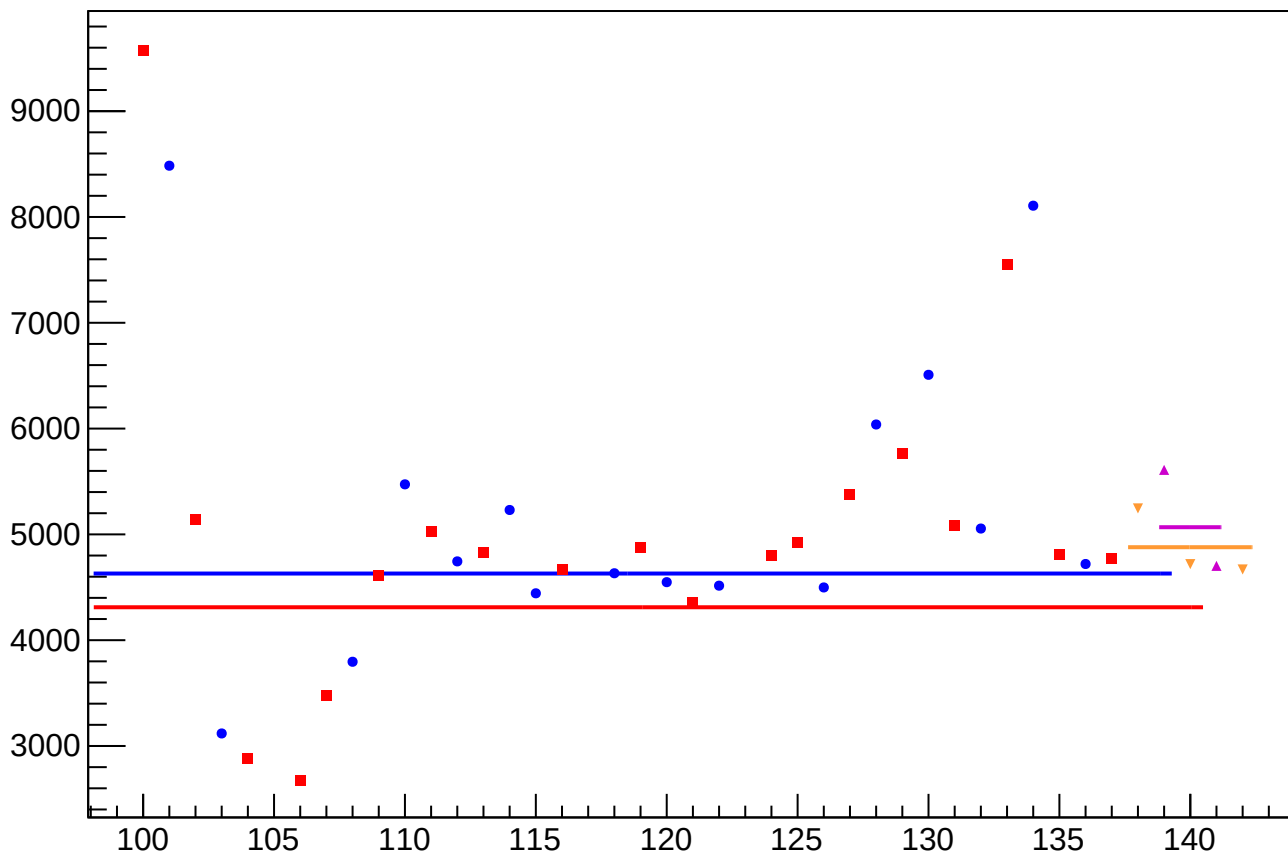
Right: 3378.243+/-1219.278 χ^2/NDF : 28.0/34

In: 4686.177+/-1619.038 χ^2/NDF : 13.1/17

Out: 1552.270+/-1501.549 χ^2/NDF : 18.3/21

All: 3001.400+/-1100.950 χ^2/NDF : 33.5/39

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 4629.967+/-1.260 χ^2/NDF : 900246.3/15

Left Out: 4878.785+/-2.414 χ^2/NDF : 11227.5/2

Right Out: 4311.218+/-1.172 χ^2/NDF : 904737.2/18

Left In: 5067.791+/-2.740 χ^2/NDF : 26370.0/1

Left: 4961.395+/-1.812 χ^2/NDF : 40275.8/4

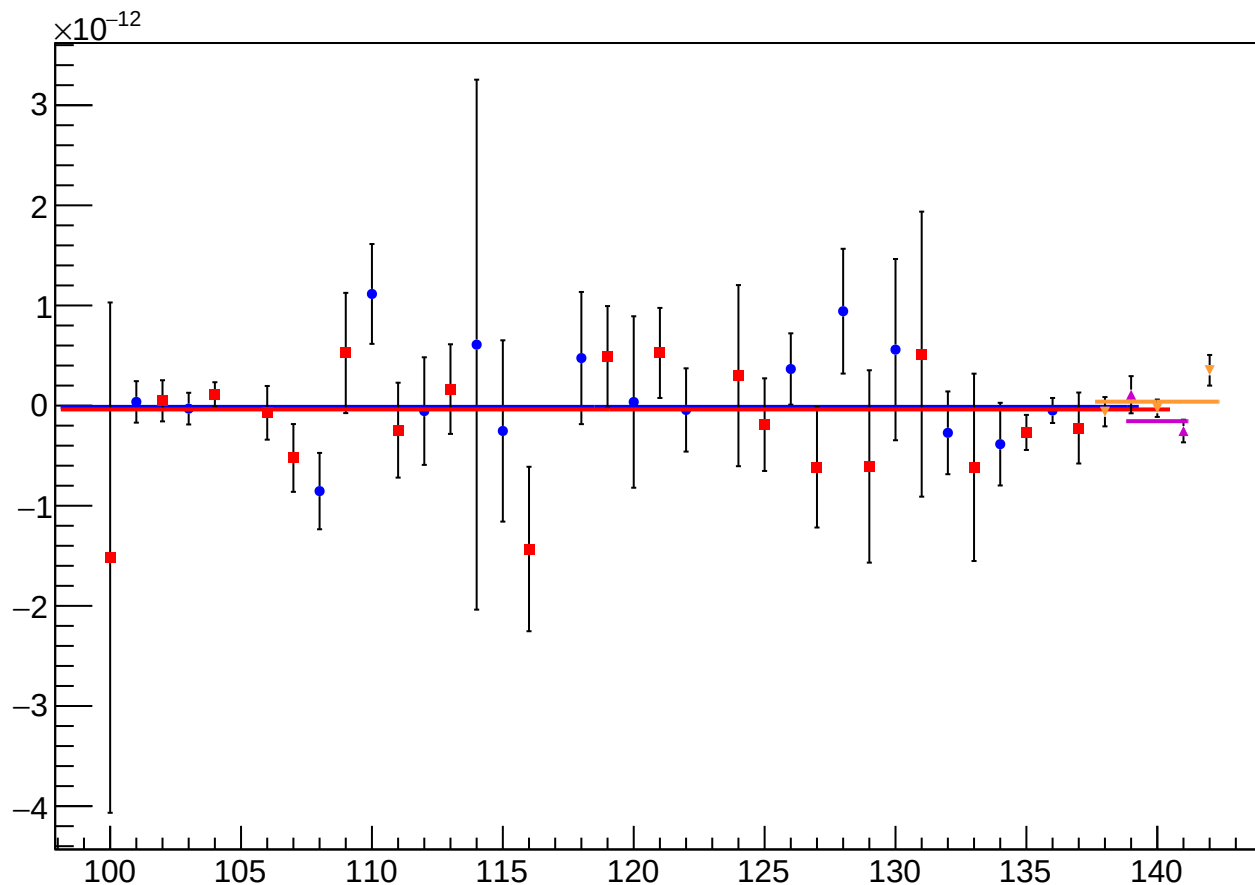
Right: 4459.059+/-0.858 χ^2/NDF : 1839292.8/34

In: 4706.395+/-1.145 χ^2/NDF : 947690.4/17

Out: 4419.442+/-1.054 χ^2/NDF : 960685.6/21

All: 4551.129+/-0.776 χ^2/NDF : 1942369.9/39

asym_atr_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 15.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 5.2/2

Right Out: -0.000+/-0.000 χ^2/NDF : 15.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 2.8/1

Left: -0.000+/-0.000 χ^2/NDF : 10.8/4

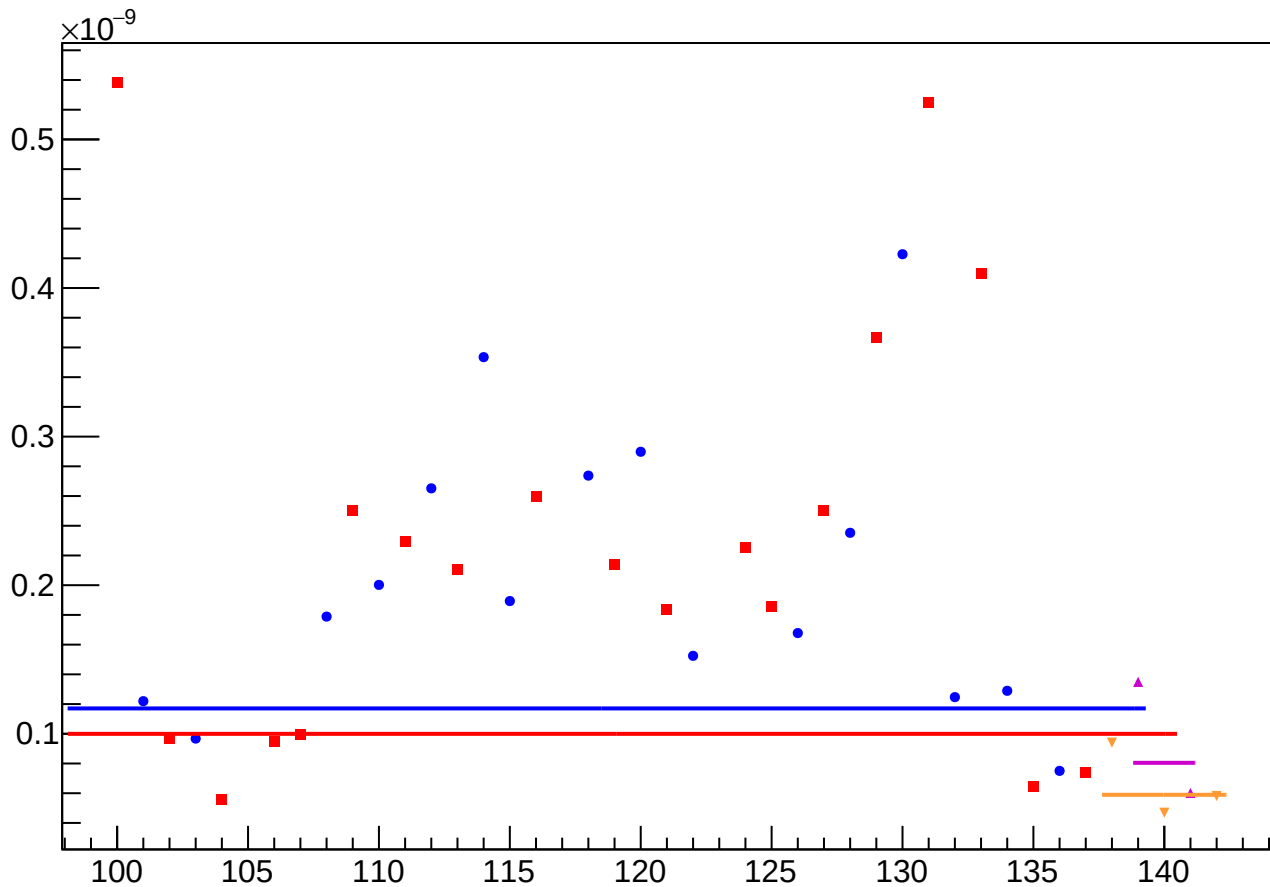
Right: -0.000+/-0.000 χ^2/NDF : 30.9/34

In: -0.000+/-0.000 χ^2/NDF : 20.0/17

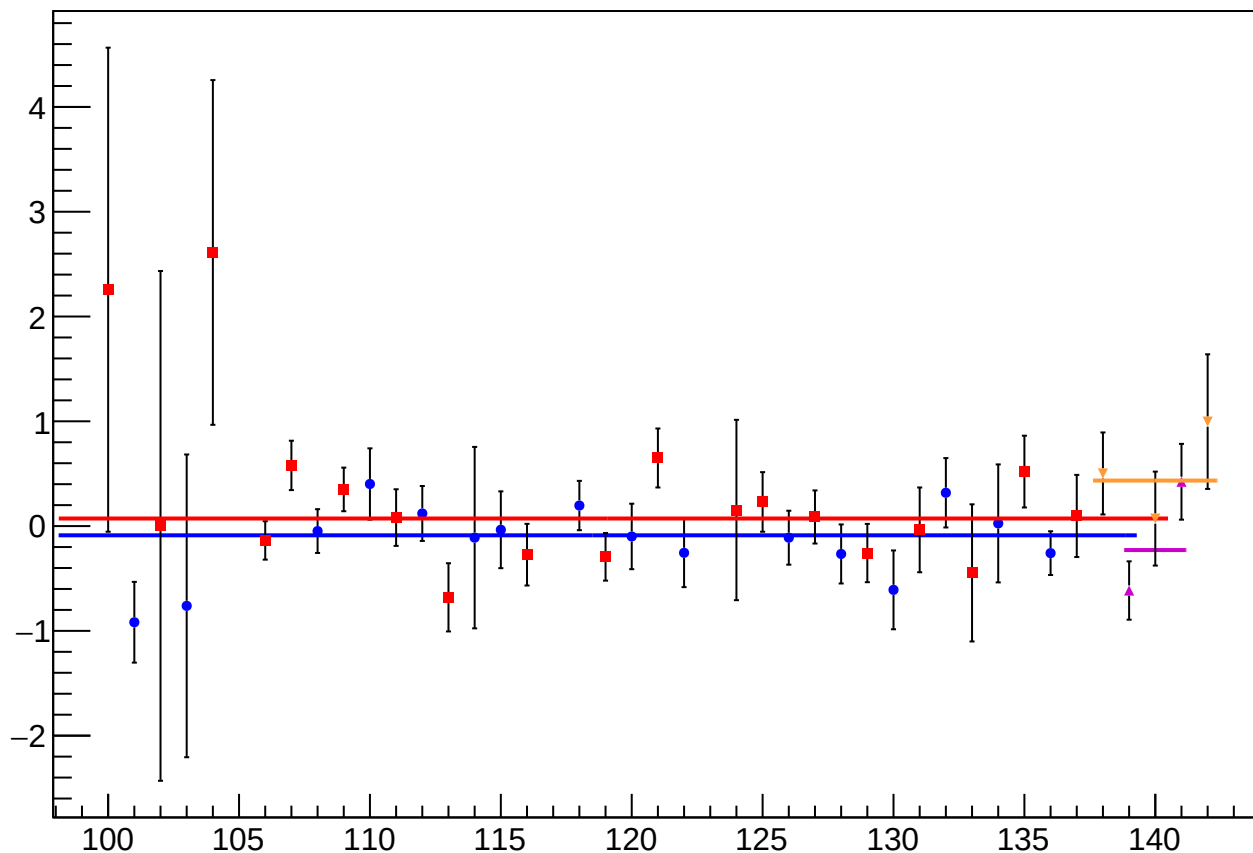
Out: 0.000+/-0.000 χ^2/NDF : 20.8/21

All: -0.000+/-0.000 χ^2/NDF : 41.7/39

asym_atr_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



asym_atr_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.088 ± 0.077 $\chi^2/\text{NDF}: 13.9/15$

Left Out: 0.434 ± 0.268 $\chi^2/\text{NDF}: 1.5/2$

Right Out: 0.072 ± 0.070 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.229 ± 0.221 $\chi^2/\text{NDF}: 5.2/1$

Left: 0.039 ± 0.170 $\chi^2/\text{NDF}: 10.3/4$

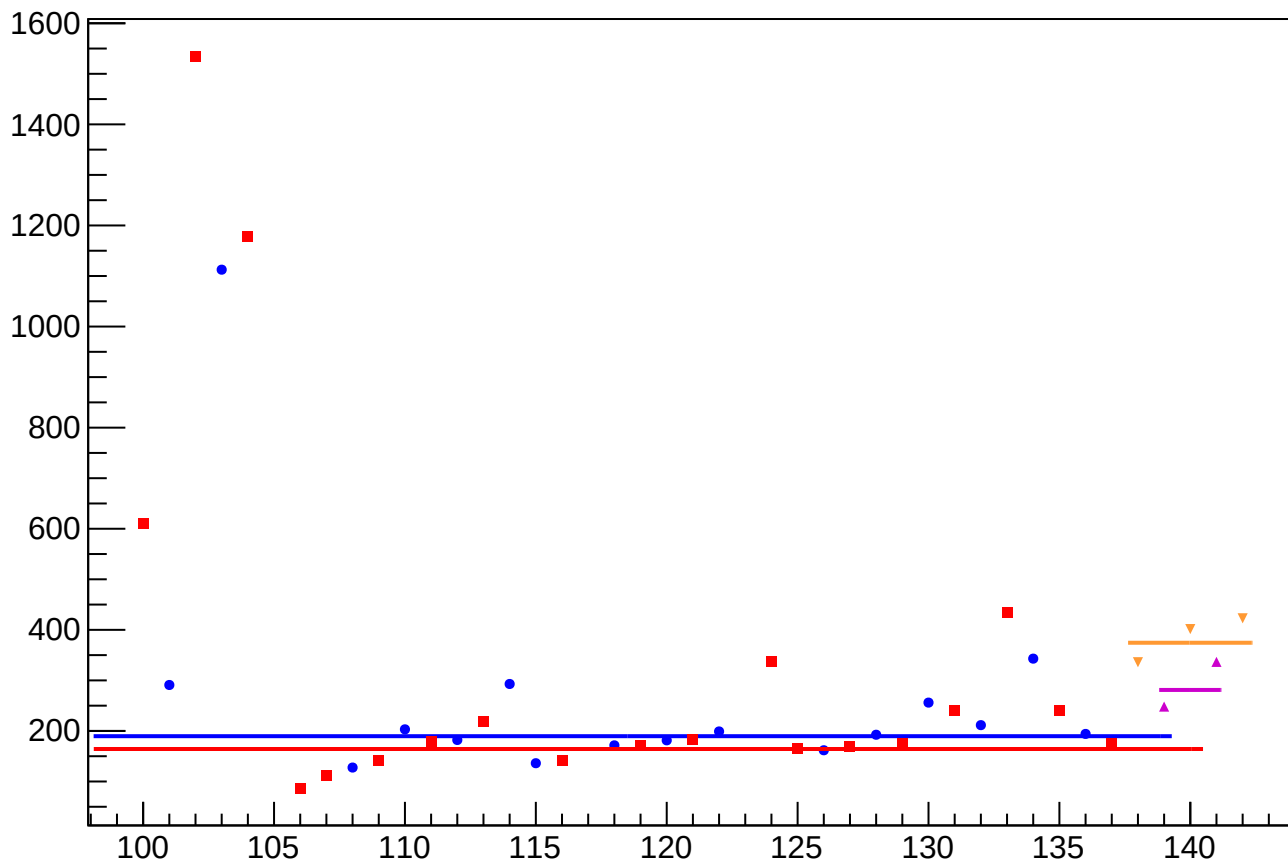
Right: -0.000 ± 0.052 $\chi^2/\text{NDF}: 44.9/34$

In: -0.103 ± 0.073 $\chi^2/\text{NDF}: 19.4/17$

Out: 0.096 ± 0.068 $\chi^2/\text{NDF}: 31.8/21$

All: 0.003 ± 0.049 $\chi^2/\text{NDF}: 55.2/39$

asym_atr_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 189.628+/-0.054 χ^2/NDF : 1465476.9/15

Left Out: 374.477+/-0.189 χ^2/NDF :38011.0/2

Right Out: 164.287+/-0.050 χ^2/NDF : 2643490.2/18

Left In: 281.110+/-0.156 χ^2/NDF :75125.0/1

Left: 318.841+/-0.120 χ^2/NDF : 257836.7/4

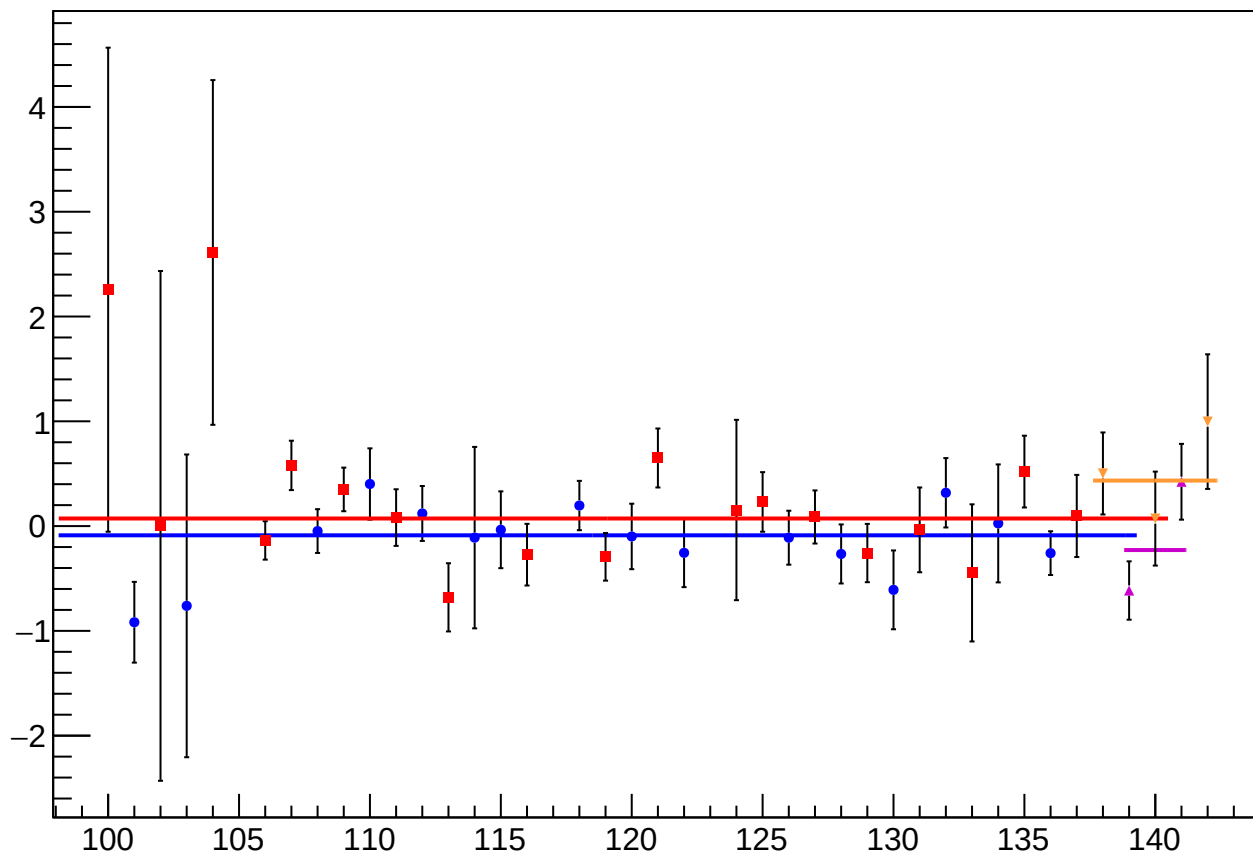
Right: 175.794+/-0.037 χ^2/NDF : 4227942.3/34

In: 199.505+/-0.051 χ^2/NDF :1847239.2/17

Out: 177.720+/-0.048 χ^2/NDF :3833538.3/21

All: 187.873+/-0.035 χ^2/NDF : 5777181.0/39

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.088 ± 0.077 $\chi^2/\text{NDF}: 13.9/15$

Left Out: 0.434 ± 0.268 $\chi^2/\text{NDF}: 1.5/2$

Right Out: 0.072 ± 0.070 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.229 ± 0.221 $\chi^2/\text{NDF}: 5.2/1$

Left: 0.039 ± 0.170 $\chi^2/\text{NDF}: 10.3/4$

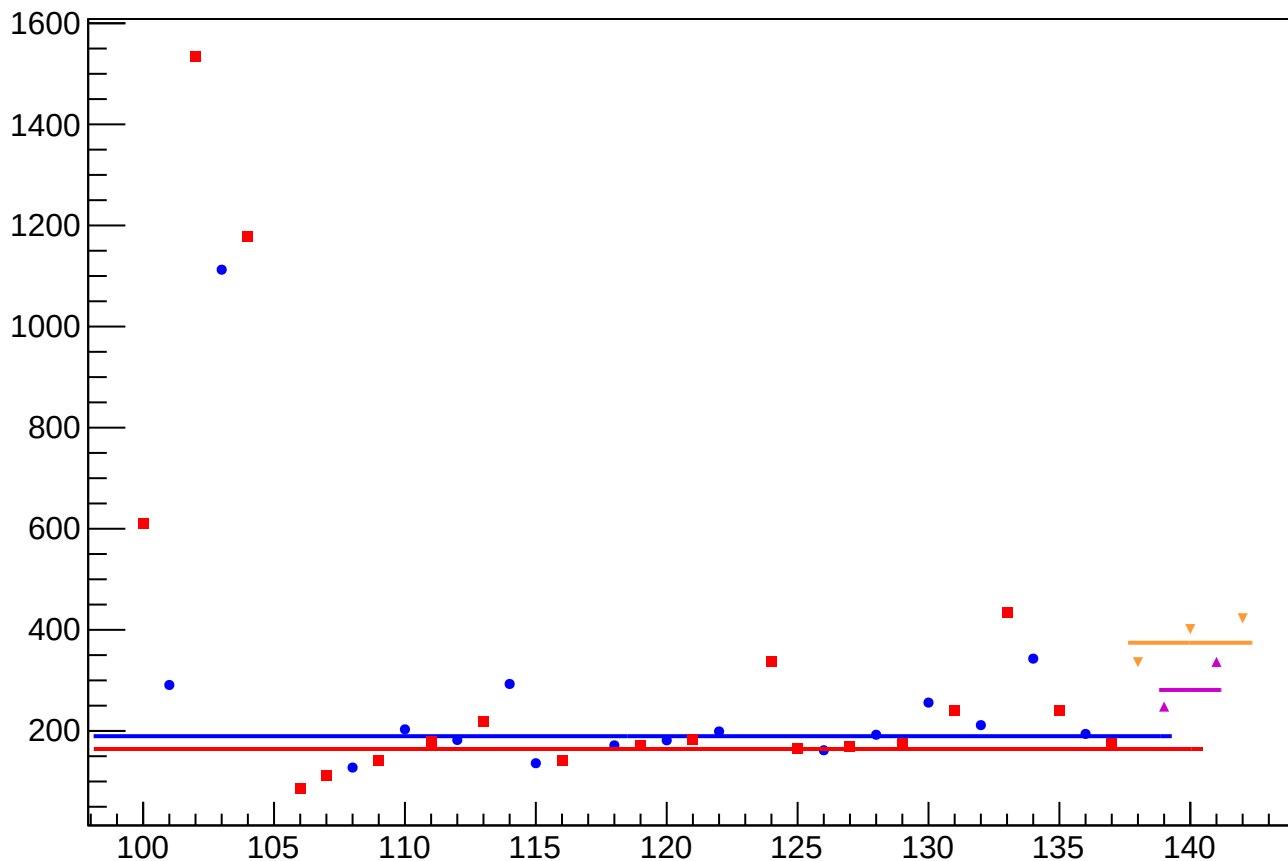
Right: -0.000 ± 0.052 $\chi^2/\text{NDF}: 44.9/34$

In: -0.103 ± 0.073 $\chi^2/\text{NDF}: 19.4/17$

Out: 0.096 ± 0.068 $\chi^2/\text{NDF}: 31.8/21$

All: 0.003 ± 0.049 $\chi^2/\text{NDF}: 55.2/39$

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 189.628 $\pm$ 0.054 χ^2 /NDF: 1465476.9/15

Left Out: 374.477 $\pm$ 0.189 χ^2 /NDF:38011.0/2

Right Out: 164.287 $\pm$ 0.050 χ^2 /NDF: 2643490.2/18

Left In: 281.110 $\pm$ 0.156 χ^2 /NDF:75125.0/1

Left: 318.841 $\pm$ 0.120 χ^2 /NDF: 257836.7/4

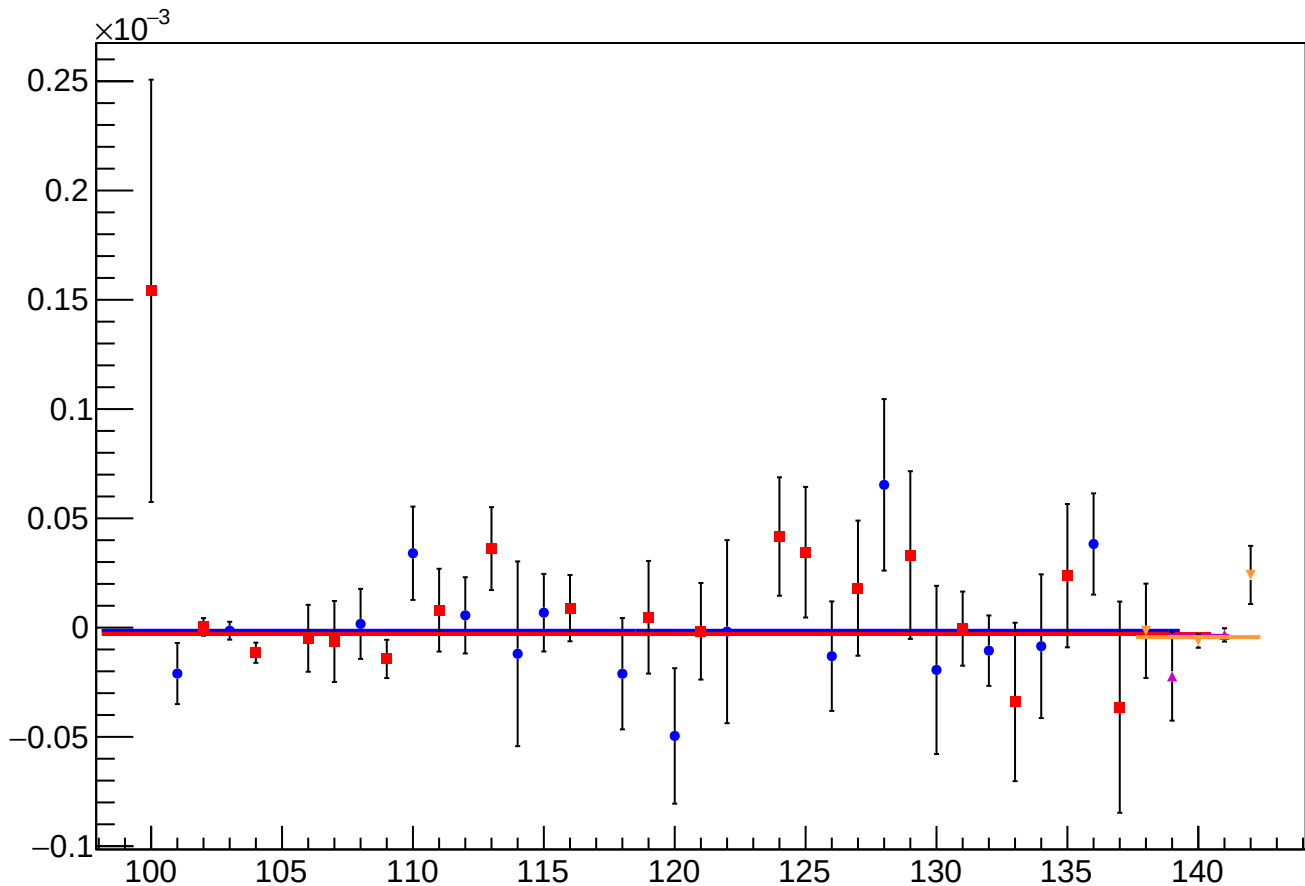
Right: 175.794 $\pm$ 0.037 χ^2 /NDF: 4227942.3/34

In: 199.505 $\pm$ 0.051 χ^2 /NDF:1847239.2/17

Out: 177.720 $\pm$ 0.048 χ^2 /NDF:3833538.3/21

All: 187.873 $\pm$ 0.035 χ^2 /NDF: 5777181.0/39

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 14.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 4.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 21.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.9/1

Left: -0.000+/-0.000 χ^2/NDF : 5.8/4

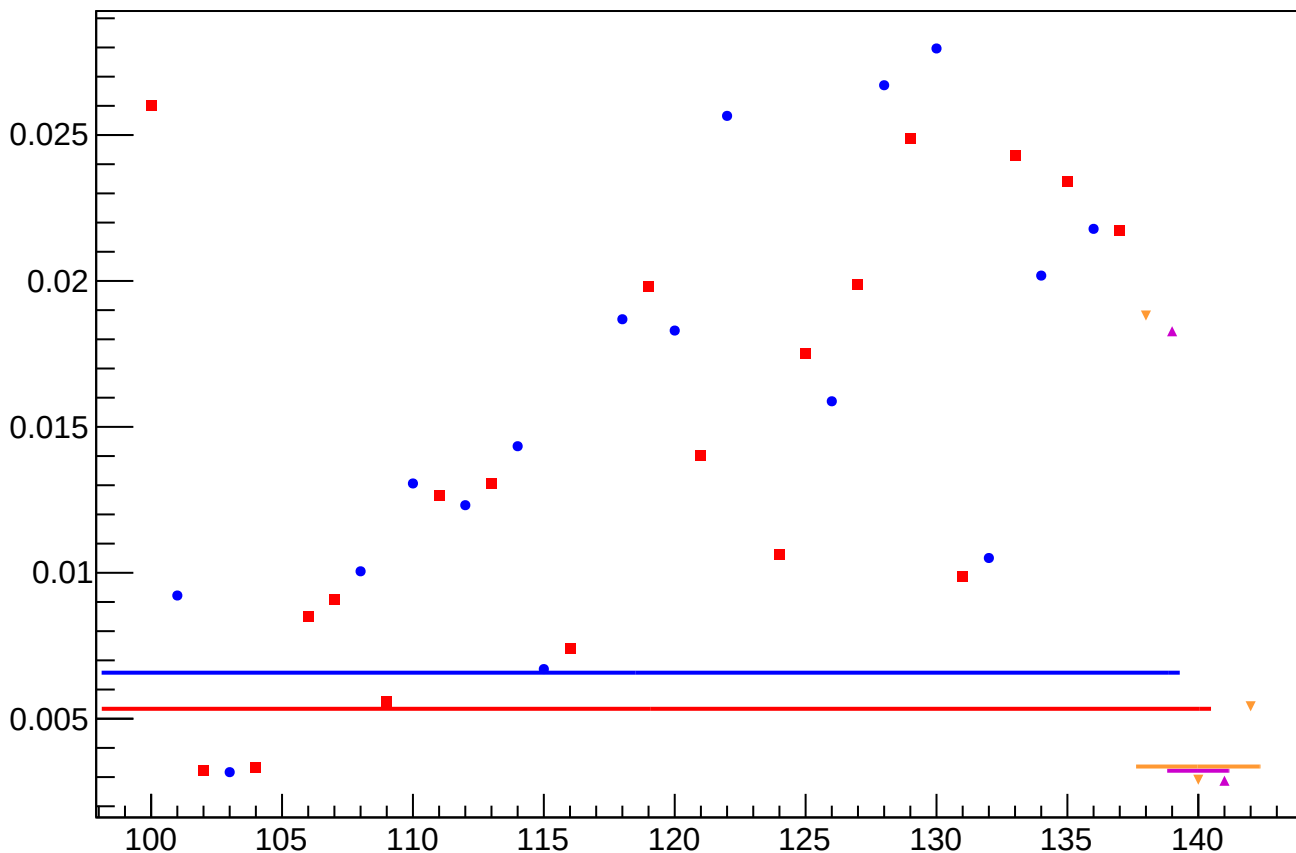
Right: -0.000+/-0.000 χ^2/NDF : 36.3/34

In: -0.000+/-0.000 χ^2/NDF : 16.0/17

Out: -0.000+/-0.000 χ^2/NDF : 26.3/21

All: -0.000+/-0.000 χ^2/NDF : 42.3/39

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000

χ^2/NDF : 5928012.0/15

Left Out: 0.003+/-0.000

χ^2/NDF :1114374.3/2

Right Out: 0.005+/-0.000

χ^2/NDF : 5685915.4/18

Left In: 0.003+/-0.000

χ^2/NDF :1128866.2/1

Left: 0.003+/-0.000

χ^2/NDF : 2245482.1/4

Right: 0.006+/-0.000

χ^2/NDF : 11788382.8/34

In: 0.005+/-0.000

χ^2/NDF :8178470.6/17

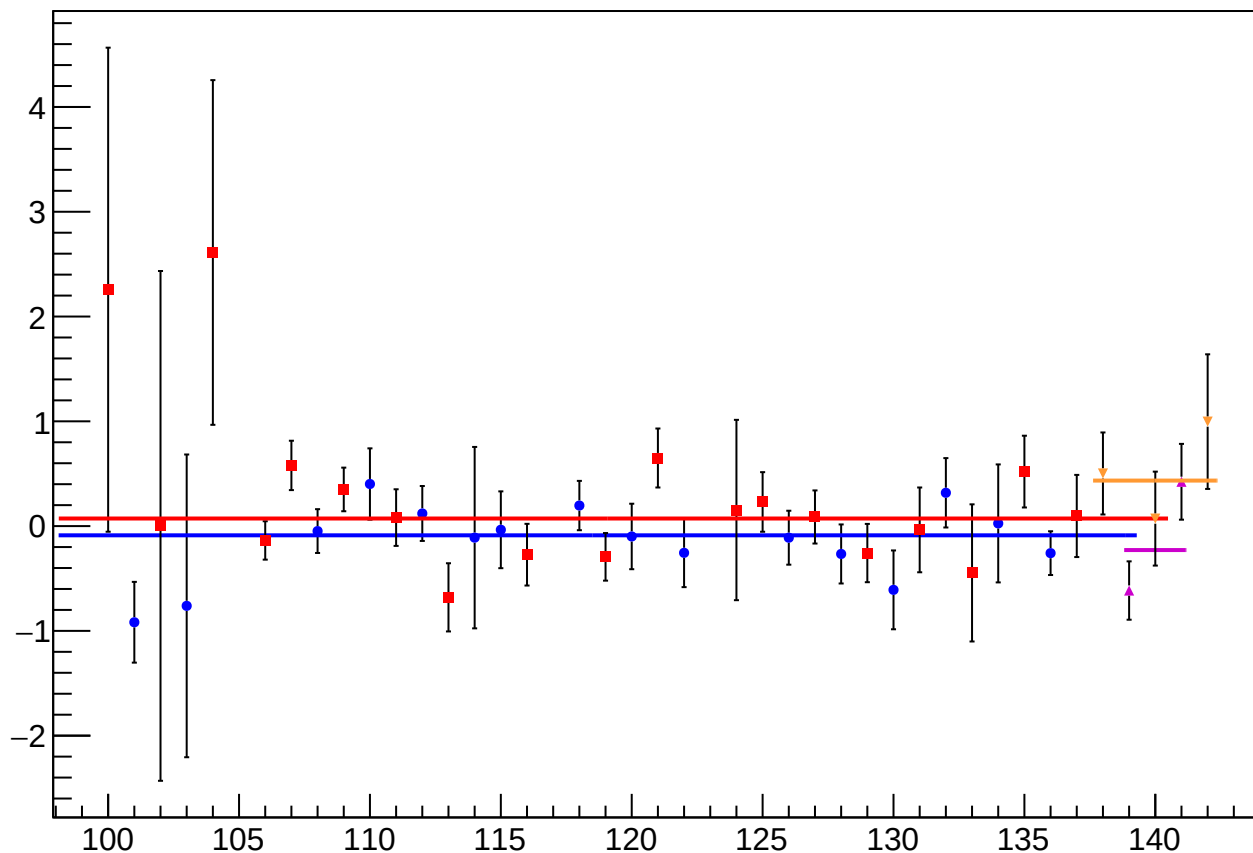
Out: 0.005+/-0.000

χ^2/NDF :7292077.3/21

All: 0.005+/-0.000

χ^2/NDF : 15481749.6/39

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.088 ± 0.077 $\chi^2/\text{NDF}: 13.9/15$

Left Out: 0.434 ± 0.268 $\chi^2/\text{NDF}: 1.5/2$

Right Out: 0.072 ± 0.070 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.229 ± 0.221 $\chi^2/\text{NDF}: 5.2/1$

Left: 0.039 ± 0.170 $\chi^2/\text{NDF}: 10.3/4$

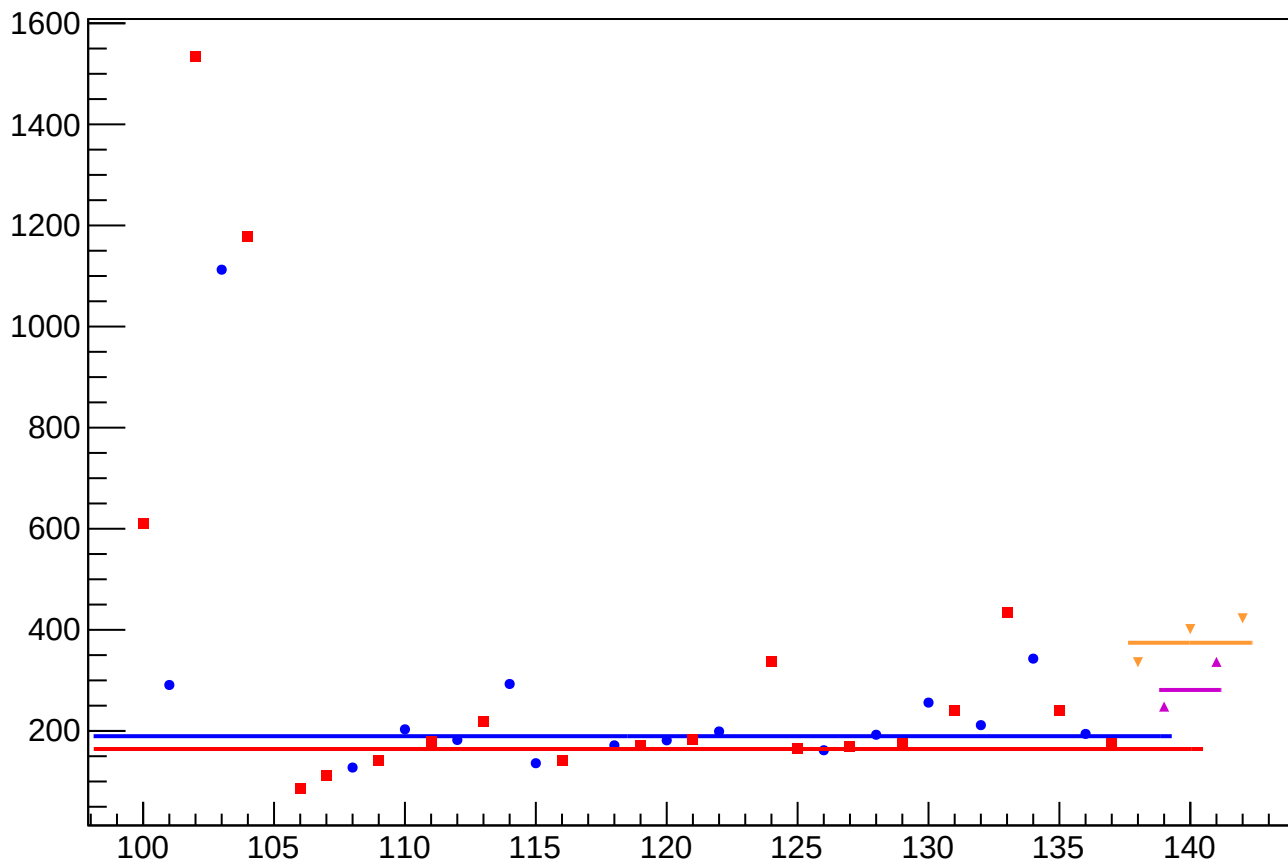
Right: -0.000 ± 0.052 $\chi^2/\text{NDF}: 44.9/34$

In: -0.103 ± 0.073 $\chi^2/\text{NDF}: 19.4/17$

Out: 0.096 ± 0.068 $\chi^2/\text{NDF}: 31.8/21$

All: 0.003 ± 0.049 $\chi^2/\text{NDF}: 55.2/39$

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 189.628 ± 0.054 $\chi^2/\text{NDF}: 1465464.1/15$

Left Out: 374.480 ± 0.189 $\chi^2/\text{NDF}: 38005.3/2$

Right Out: 164.286 ± 0.050 $\chi^2/\text{NDF}: 2643465.6/18$

Left In: 281.113 ± 0.156 $\chi^2/\text{NDF}: 75116.2/1$

Left: 318.844 ± 0.120 $\chi^2/\text{NDF}: 257820.0/4$

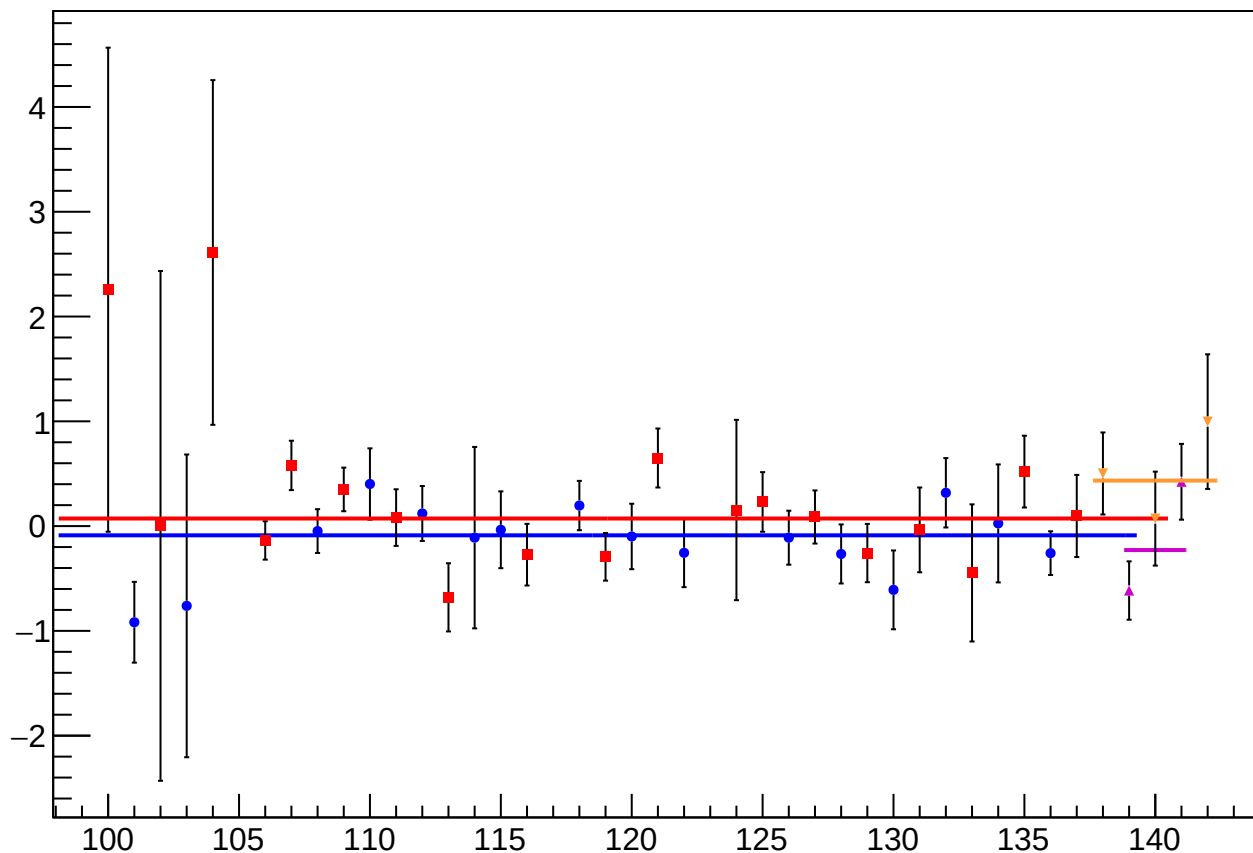
Right: 175.793 ± 0.037 $\chi^2/\text{NDF}: 4227906.3/34$

In: 199.505 ± 0.051 $\chi^2/\text{NDF}: 1847237.8/17$

Out: 177.720 ± 0.048 $\chi^2/\text{NDF}: 3833536.0/21$

All: 187.873 ± 0.035 $\chi^2/\text{NDF}: 5777180.3/39$

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.088 ± 0.077 $\chi^2/\text{NDF}: 13.9/15$

Left Out: 0.434 ± 0.268 $\chi^2/\text{NDF}: 1.5/2$

Right Out: 0.072 ± 0.070 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.229 ± 0.221 $\chi^2/\text{NDF}: 5.2/1$

Left: 0.039 ± 0.170 $\chi^2/\text{NDF}: 10.3/4$

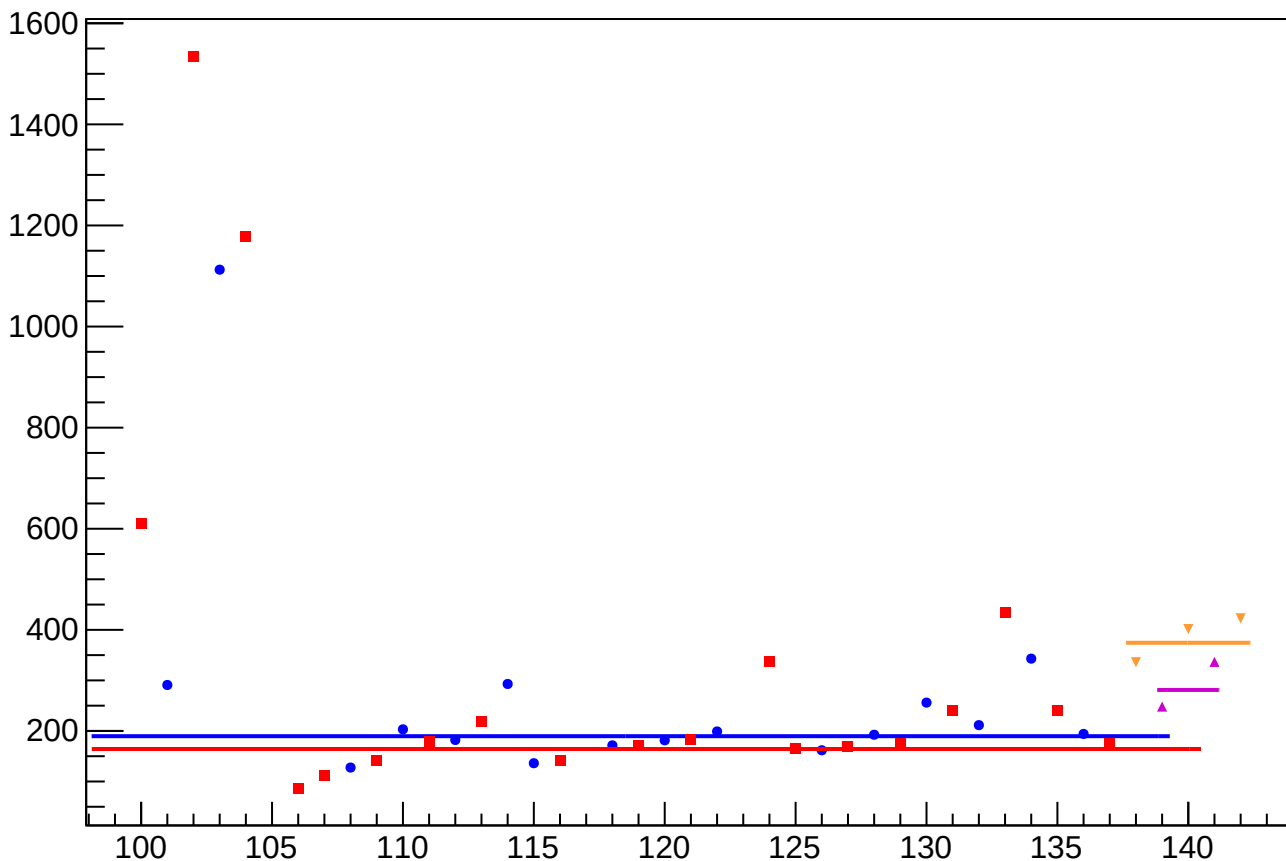
Right: -0.000 ± 0.052 $\chi^2/\text{NDF}: 44.9/34$

In: -0.103 ± 0.073 $\chi^2/\text{NDF}: 19.4/17$

Out: 0.096 ± 0.068 $\chi^2/\text{NDF}: 31.8/21$

All: 0.003 ± 0.049 $\chi^2/\text{NDF}: 55.2/39$

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 189.628 $\pm$ 0.054 χ^2 /NDF: 1465464.1/15

Left Out: 374.480 $\pm$ 0.189 χ^2 /NDF:38005.3/2

Right Out: 164.286 $\pm$ 0.050 χ^2 /NDF: 2643465.6/18

Left In: 281.113 $\pm$ 0.156 χ^2 /NDF:75116.2/1

Left: 318.844 $\pm$ 0.120 χ^2 /NDF: 257820.0/4

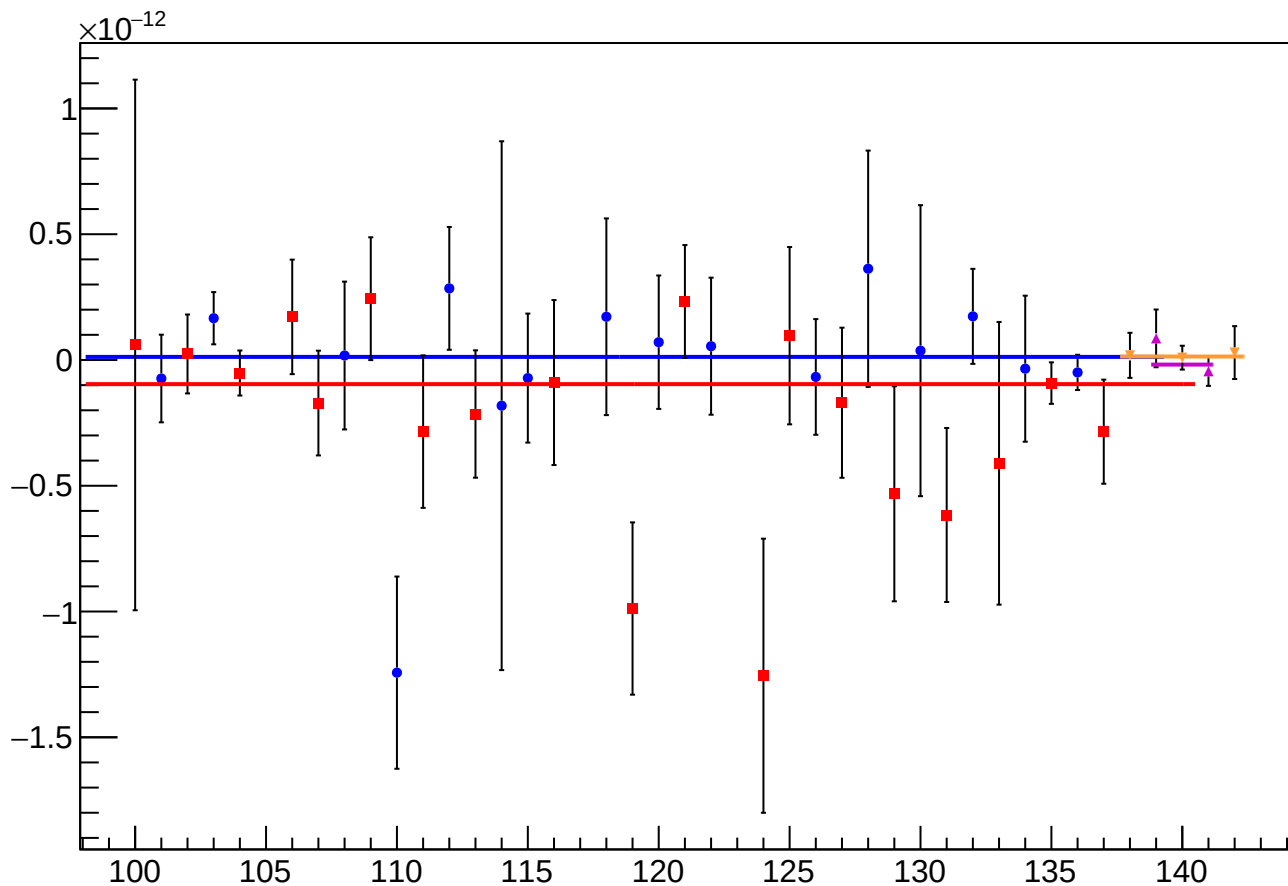
Right: 175.793 $\pm$ 0.037 χ^2 /NDF: 4227906.3/34

In: 199.505 $\pm$ 0.051 χ^2 /NDF:1847237.8/17

Out: 177.720 $\pm$ 0.048 χ^2 /NDF:3833536.0/21

All: 187.873 $\pm$ 0.035 χ^2 /NDF: 5777180.3/39

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 17.1/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.0/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 23.2/18

Left In: -0.000 ± 0.000 χ^2/NDF : 1.0/1

Left: 0.000 ± 0.000 χ^2/NDF : 1.3/4

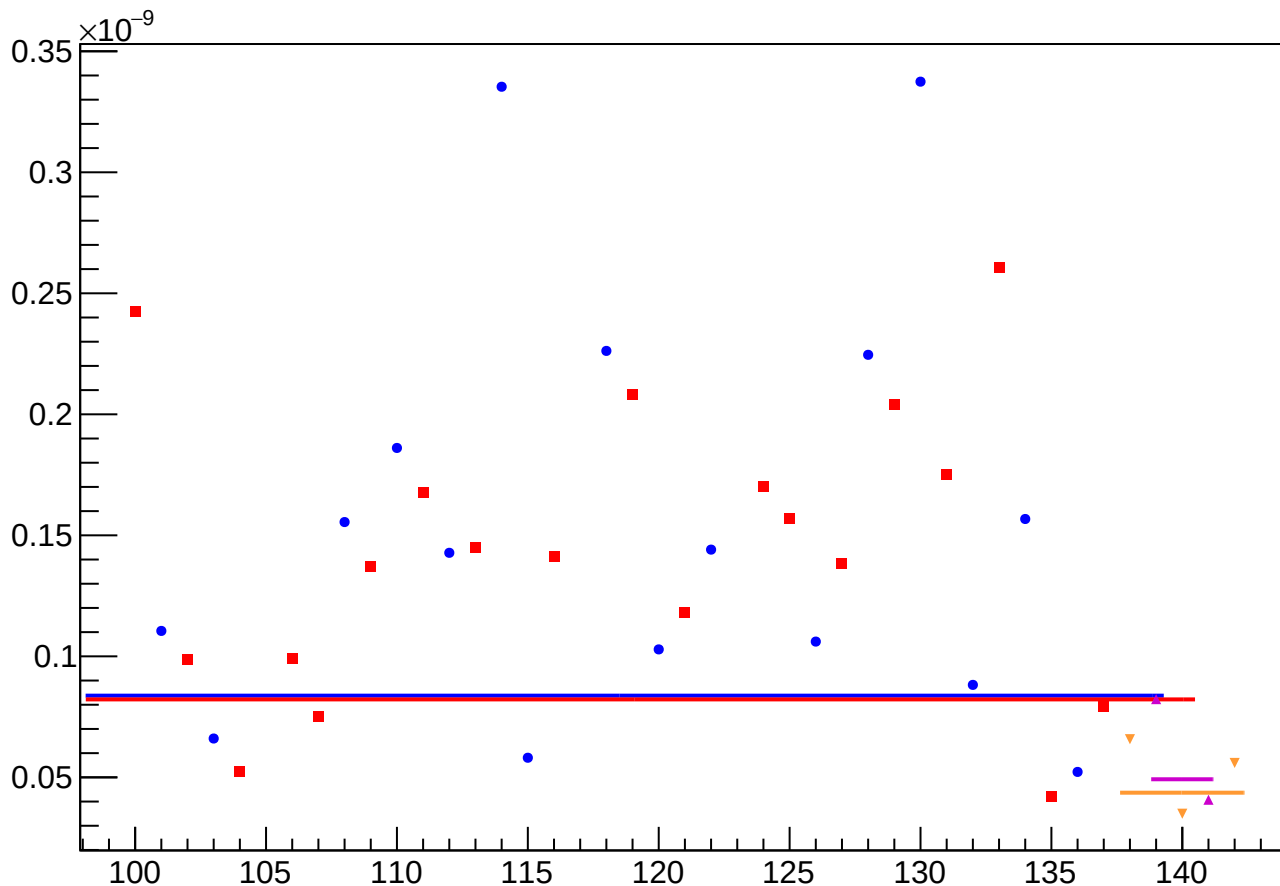
Right: -0.000 ± 0.000 χ^2/NDF : 43.1/34

In: -0.000 ± 0.000 χ^2/NDF : 18.3/17

Out: -0.000 ± 0.000 χ^2/NDF : 26.6/21

All: -0.000 ± 0.000 χ^2/NDF : 45.5/39

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2109060.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 216364.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2271900.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 209030.4/1

Left: 0.000+/-0.000 χ^2/NDF : 440065.2/4

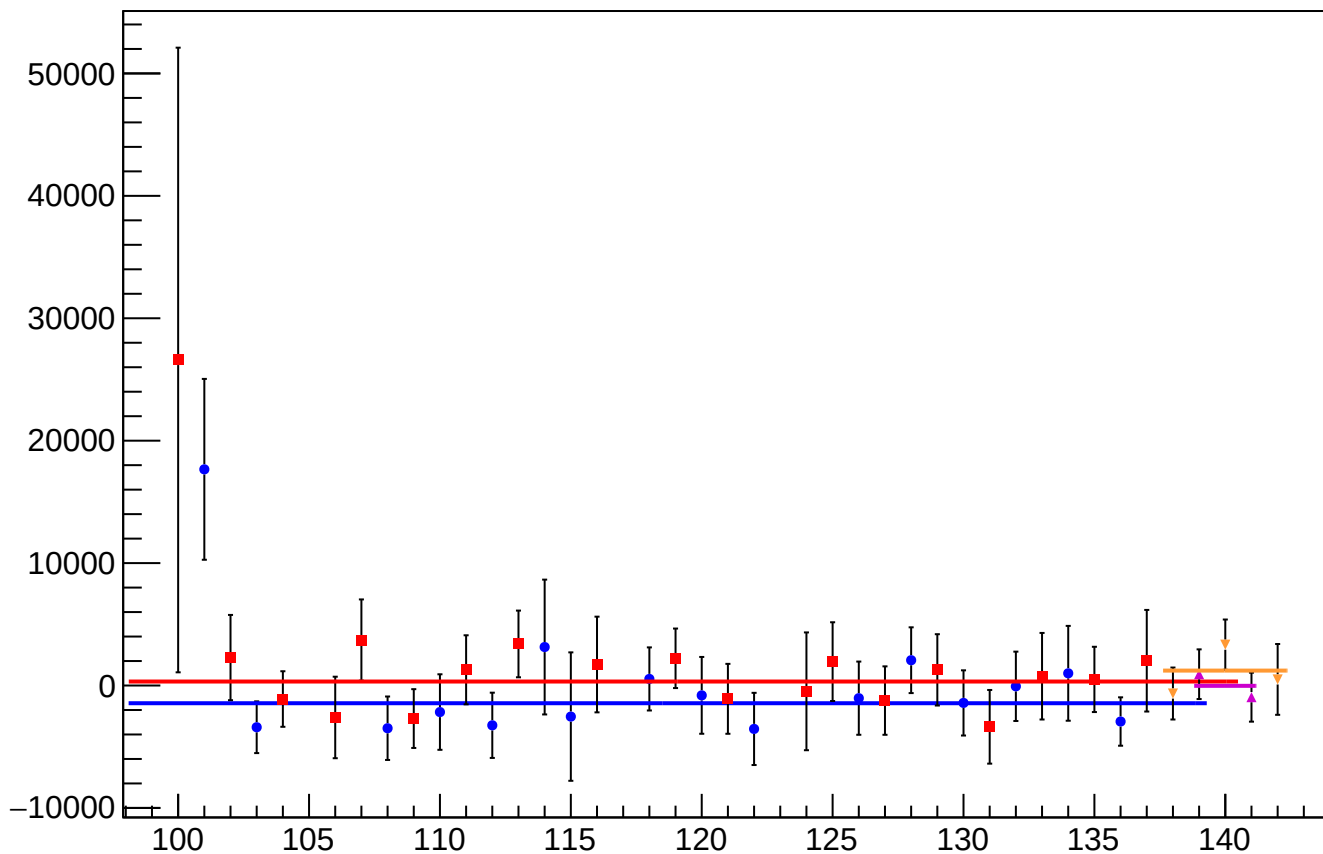
Right: 0.000+/-0.000 χ^2/NDF : 4382137.4/34

In: 0.000+/-0.000 χ^2/NDF : 2820130.1/17

Out: 0.000+/-0.000 χ^2/NDF : 3333339.2/21

All: 0.000+/-0.000 χ^2/NDF : 6223066.4/39

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1446.547+/-723.140 χ^2/NDF : 13.5/15

Left Out: 1218.951+/-1314.406 χ^2/NDF : 1.9/2

Right Out: 325.908+/-702.648 χ^2/NDF : 9.9/18

Left In: -26.227+/-1425.044 χ^2/NDF : 0.4/1

Left: 646.569+/-966.174 χ^2/NDF : 2.8/4

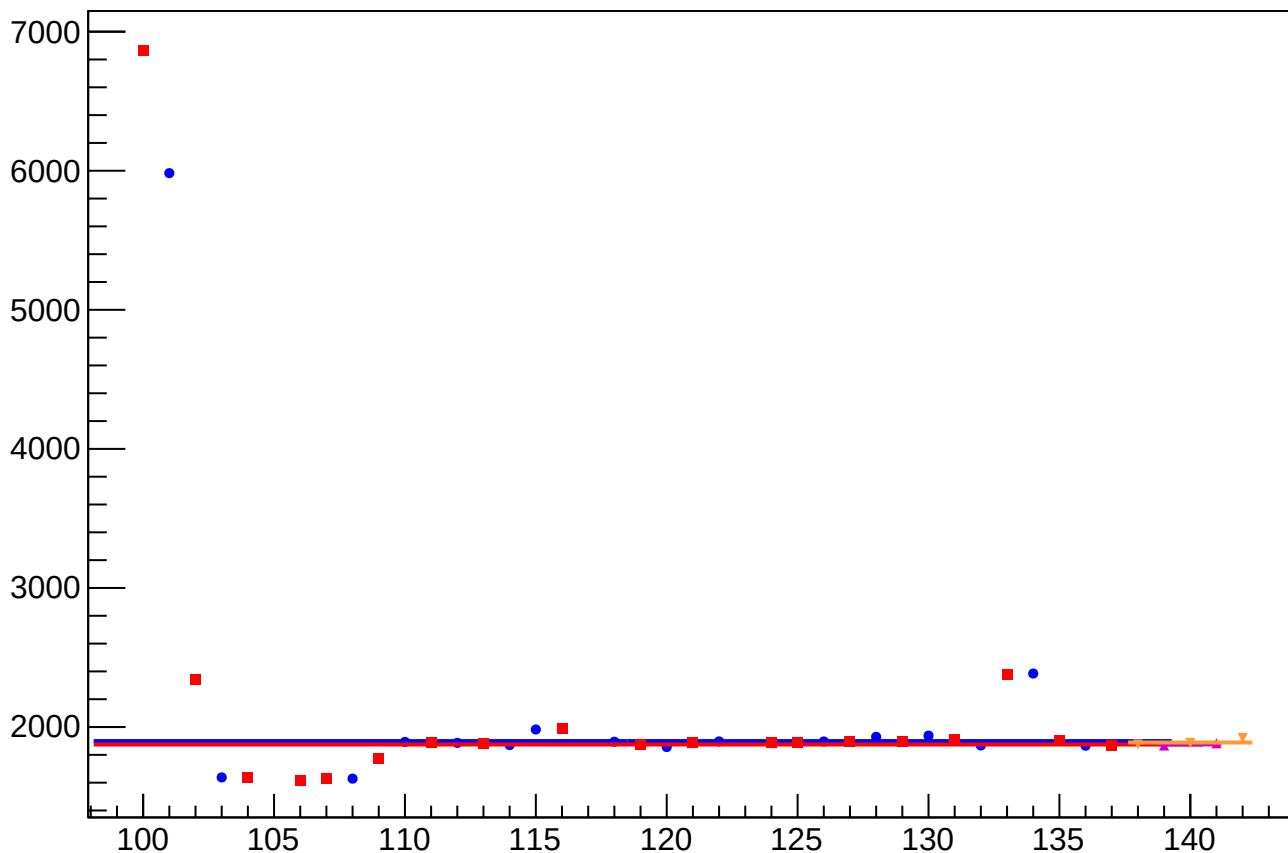
Right: -534.850+/-503.936 χ^2/NDF : 26.5/34

In: -1155.700+/-644.863 χ^2/NDF : 14.7/17

Out: 524.392+/-619.664 χ^2/NDF : 12.2/21

All: -282.187+/-446.812 χ^2/NDF : 30.5/39

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1898.826+/-0.511 χ^2/NDF : 697514.2/15

Left Out: 1888.681+/-0.929 χ^2/NDF :345.1/2

Right Out: 1874.251+/-0.495 χ^2/NDF : 207657.7/18

Left In: 1875.303+/-1.008 χ^2/NDF :61.4/1

Left: 1882.531+/-0.683 χ^2/NDF : 501.7/4

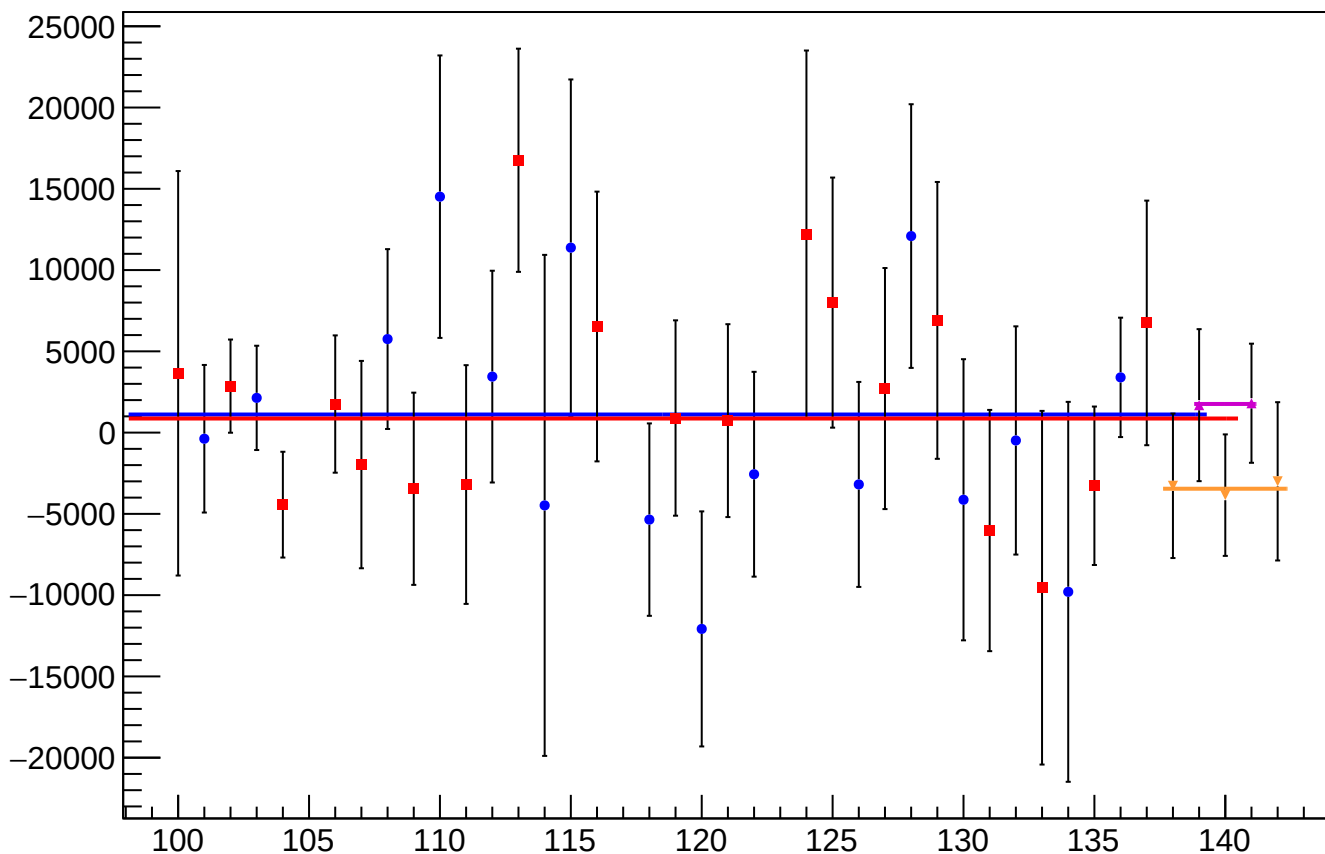
Right: 1886.144+/-0.356 χ^2/NDF : 906364.0/34

In: 1894.009+/-0.456 χ^2/NDF :698009.0/17

Out: 1877.441+/-0.437 χ^2/NDF :208190.6/21

All: 1885.373+/-0.316 χ^2/NDF : 906887.7/39

asym_atr_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 1112.704+/-1479.265 χ^2/NDF : 13.4/15

Left Out: -3452.795+/-2466.453 χ^2/NDF : 0.0/2

Right Out: 866.976+/-1307.223 χ^2/NDF : 15.6/18

Left In: 1761.924+/-2884.461 χ^2/NDF : 0.0/1

Left: -1250.334+/-1874.578 χ^2/NDF : 1.9/4

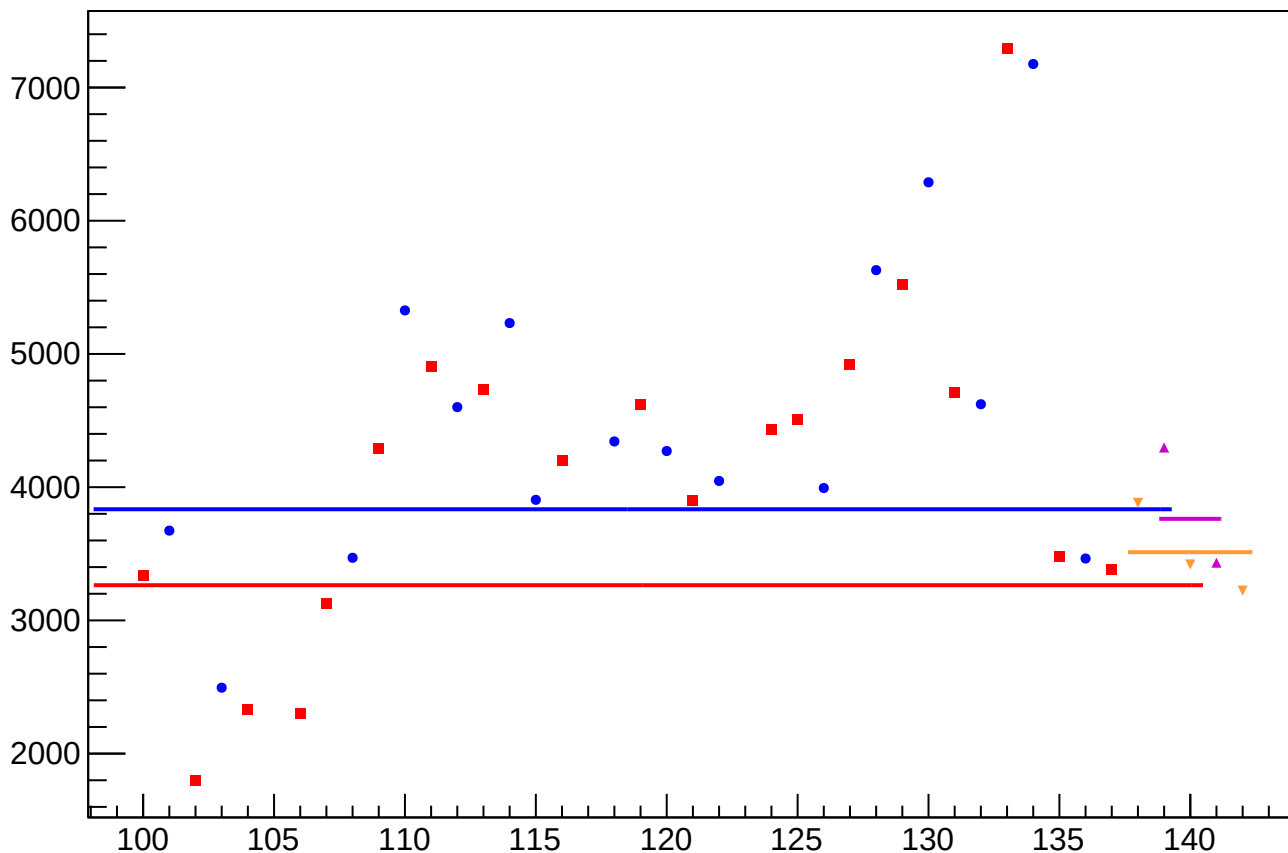
Right: 974.726+/-979.552 χ^2/NDF : 29.0/34

In: 1247.895+/-1316.266 χ^2/NDF : 13.4/17

Out: -80.349+/-1155.027 χ^2/NDF : 18.0/21

All: 497.479+/-868.168 χ^2/NDF : 32.0/39

asym_atr_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3834.164+/-1.046 χ^2/NDF : 956775.6/15

Left Out: 3511.929+/-1.744 χ^2/NDF : 22142.4/2

Right Out: 3264.110+/-0.924 χ^2/NDF : 1864241.4/18

Left In: 3762.431+/-2.040 χ^2/NDF : 42340.5/1

Left: 3617.729+/-1.326 χ^2/NDF : 73196.3/4

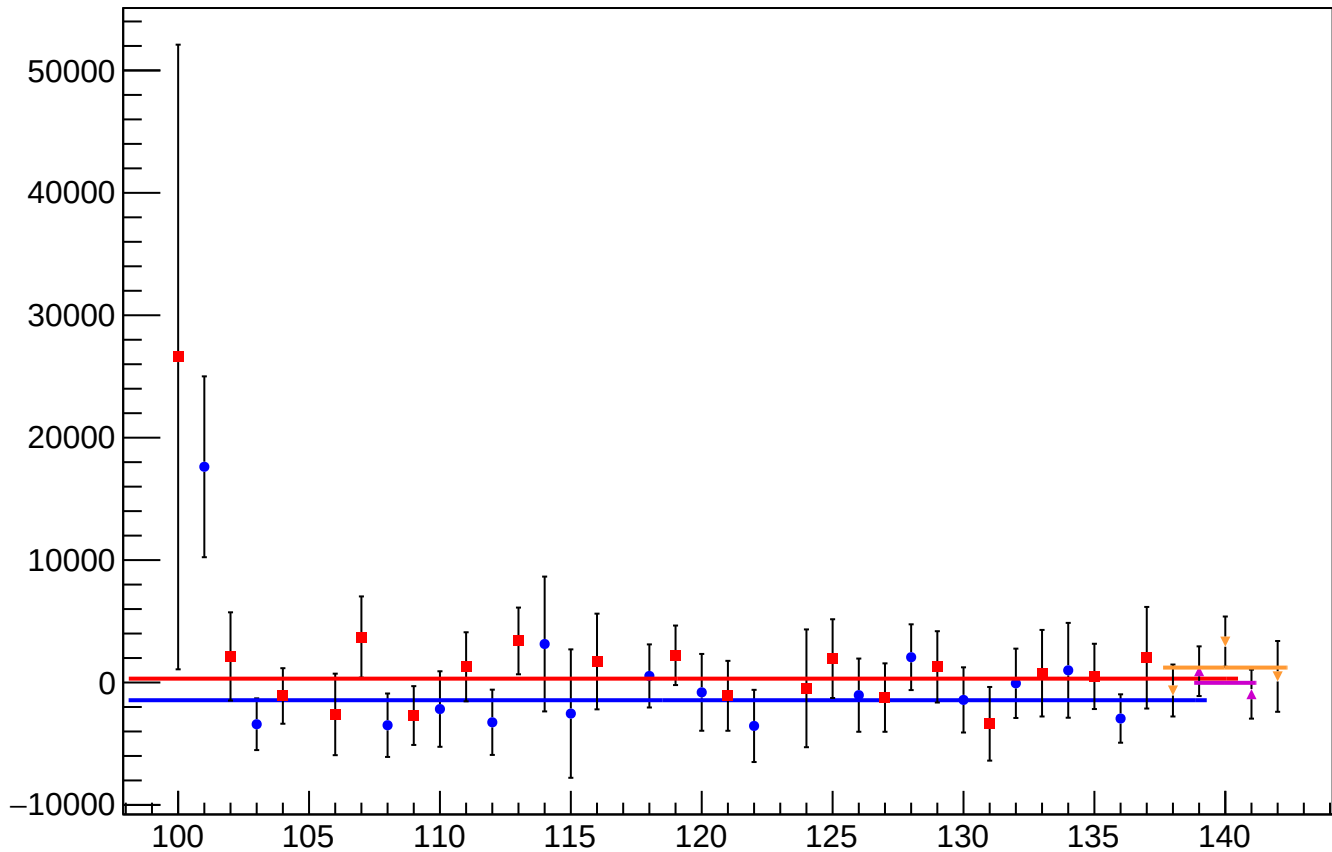
Right: 3514.075+/-0.693 χ^2/NDF : 2987789.5/34

In: 3819.226+/-0.931 χ^2/NDF : 1000095.5/17

Out: 3318.457+/-0.817 χ^2/NDF : 1902146.7/21

All: 3536.307+/-0.614 χ^2/NDF : 3065789.3/39

cor_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1446.933 ± 723.140 χ^2/NDF : 13.5/15

Left Out: 1219.142 ± 1314.406 χ^2/NDF : 1.9/2

Right Out: 315.462 ± 703.596 χ^2/NDF : 9.9/18

Left In: -26.121 ± 1425.044 χ^2/NDF : 0.4/1

Left: 646.721 ± 966.174 χ^2/NDF : 2.8/4

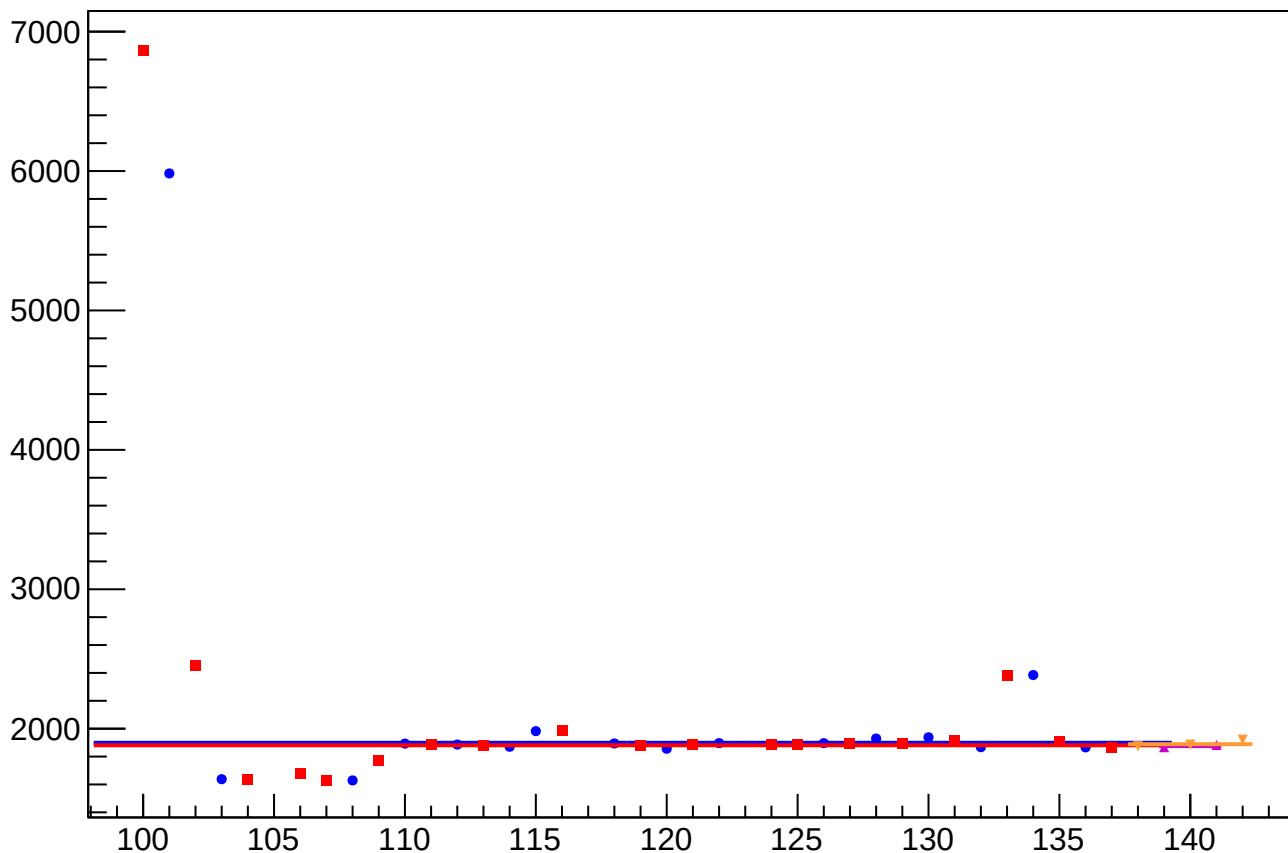
Right: -541.597 ± 504.285 χ^2/NDF : 26.4/34

In: -1155.985 ± 644.863 χ^2/NDF : 14.7/17

Out: 516.732 ± 620.314 χ^2/NDF : 12.1/21

All: -287.182 ± 447.055 χ^2/NDF : 30.3/39

cor_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1898.826+/-0.511 χ^2/NDF : 697514.4/15

Left Out: 1888.681+/-0.929 χ^2/NDF :345.1/2

Right Out: 1881.007+/-0.497 χ^2/NDF : 216564.4/18

Left In: 1875.303+/-1.008 χ^2/NDF :61.4/1

Left: 1882.531+/-0.683 χ^2/NDF : 501.7/4

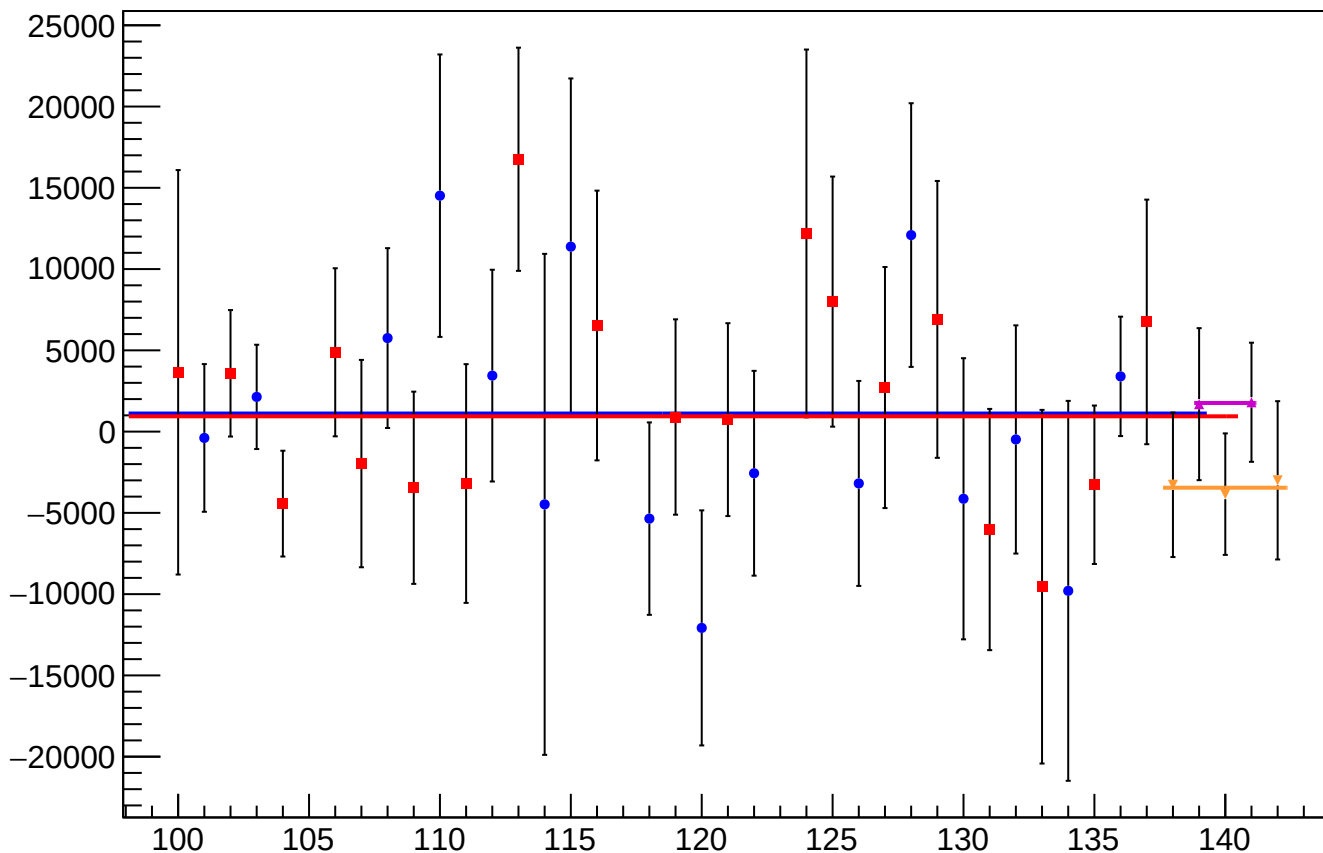
Right: 1889.658+/-0.356 χ^2/NDF : 914703.5/34

In: 1894.009+/-0.456 χ^2/NDF :698009.1/17

Out: 1882.712+/-0.438 χ^2/NDF :216962.5/21

All: 1888.134+/-0.316 χ^2/NDF : 915290.8/39

asym_atr_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 1111.533+/-1479.438 χ^2/NDF : 13.4/15

Left Out: -3452.483+/-2466.447 χ^2/NDF : 0.0/2

Right Out: 940.712+/-1398.993 χ^2/NDF : 16.2/18

Left In: 1761.616+/-2884.452 χ^2/NDF : 0.0/1

Left: -1250.282+/-1874.573 χ^2/NDF : 1.9/4

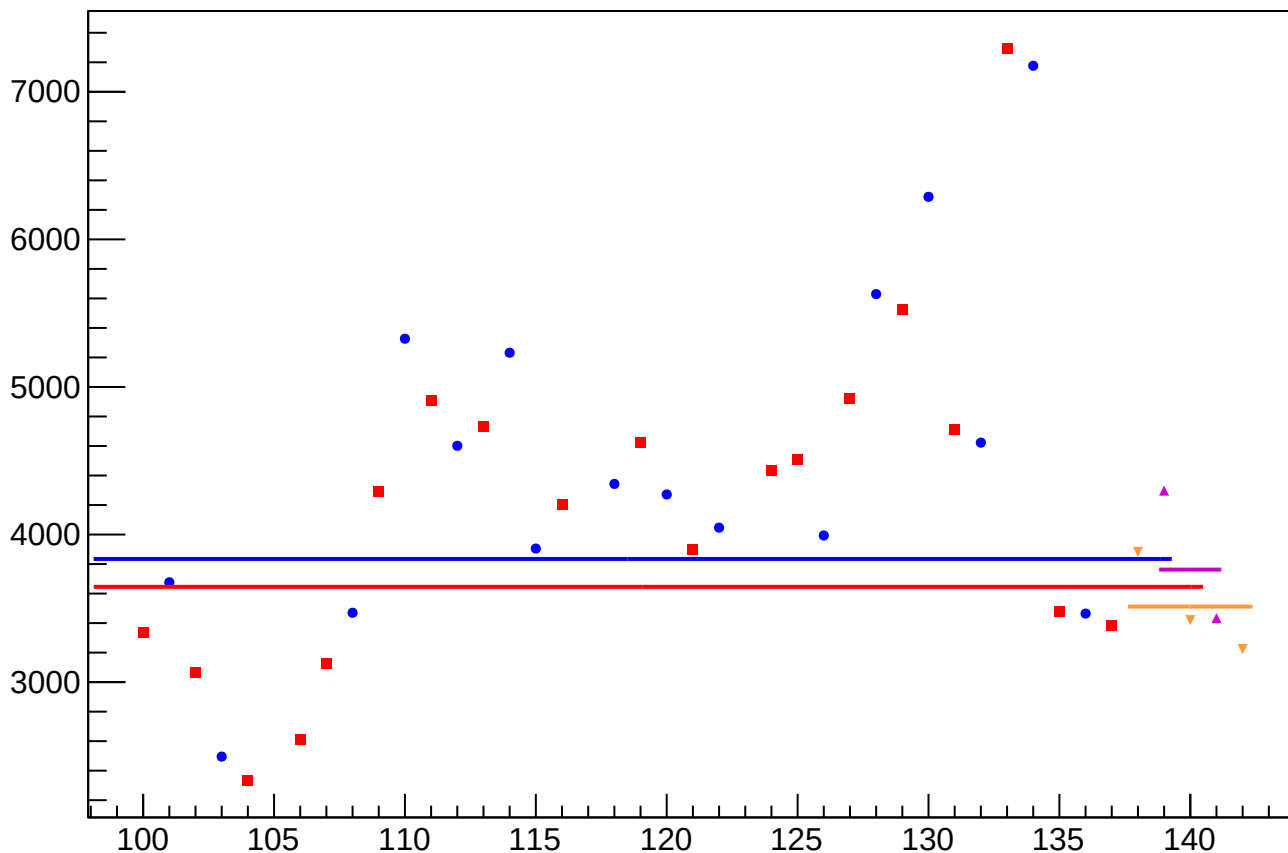
Right: 1021.352+/-1016.487 χ^2/NDF : 29.6/34

In: 1246.930+/-1316.387 χ^2/NDF : 13.4/17

Out: -128.653+/-1216.871 χ^2/NDF : 18.6/21

All: 505.184+/-893.571 χ^2/NDF : 32.6/39

asym_atr_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3834.690+/-1.046 χ^2/NDF : 956312.2/15

Left Out: 3511.921+/-1.744 χ^2/NDF : 22144.0/2

Right Out: 3645.689+/-0.989 χ^2/NDF : 1124981.4/18

Left In: 3762.420+/-2.040 χ^2/NDF : 42339.6/1

Left: 3617.721+/-1.326 χ^2/NDF : 73196.7/4

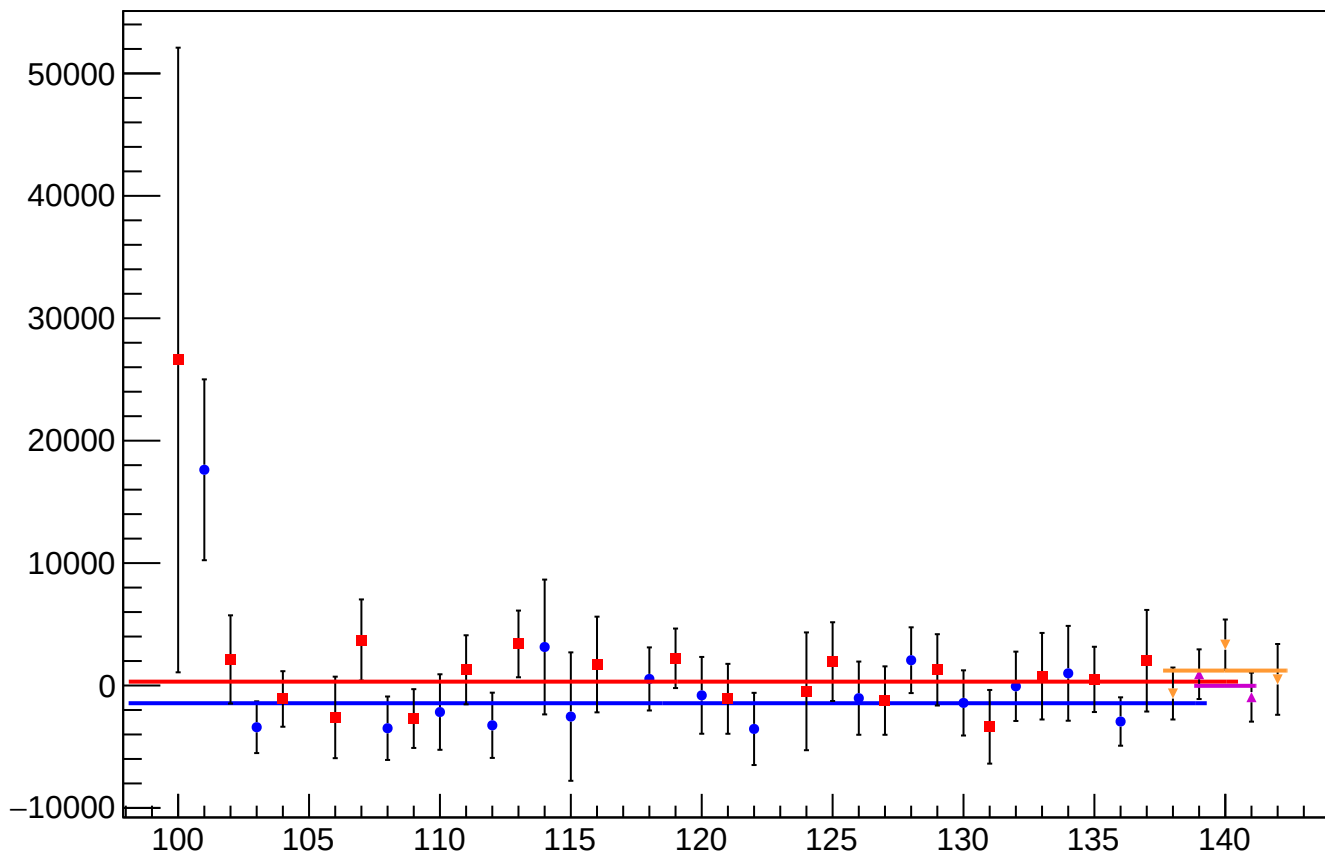
Right: 3734.912+/-0.719 χ^2/NDF : 2098525.6/34

In: 3819.638+/-0.931 χ^2/NDF : 999645.8/17

Out: 3613.128+/-0.860 χ^2/NDF : 1151576.3/21

All: 3708.283+/-0.632 χ^2/NDF : 2177762.7/39

eigen_cor_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1446.933+/-723.140 χ^2/NDF : 13.5/15

Left Out: 1219.142+/-1314.406 χ^2/NDF : 1.9/2

Right Out: 315.462+/-703.596 χ^2/NDF : 9.9/18

Left In: -26.121+/-1425.044 χ^2/NDF : 0.4/1

Left: 646.721+/-966.174 χ^2/NDF : 2.8/4

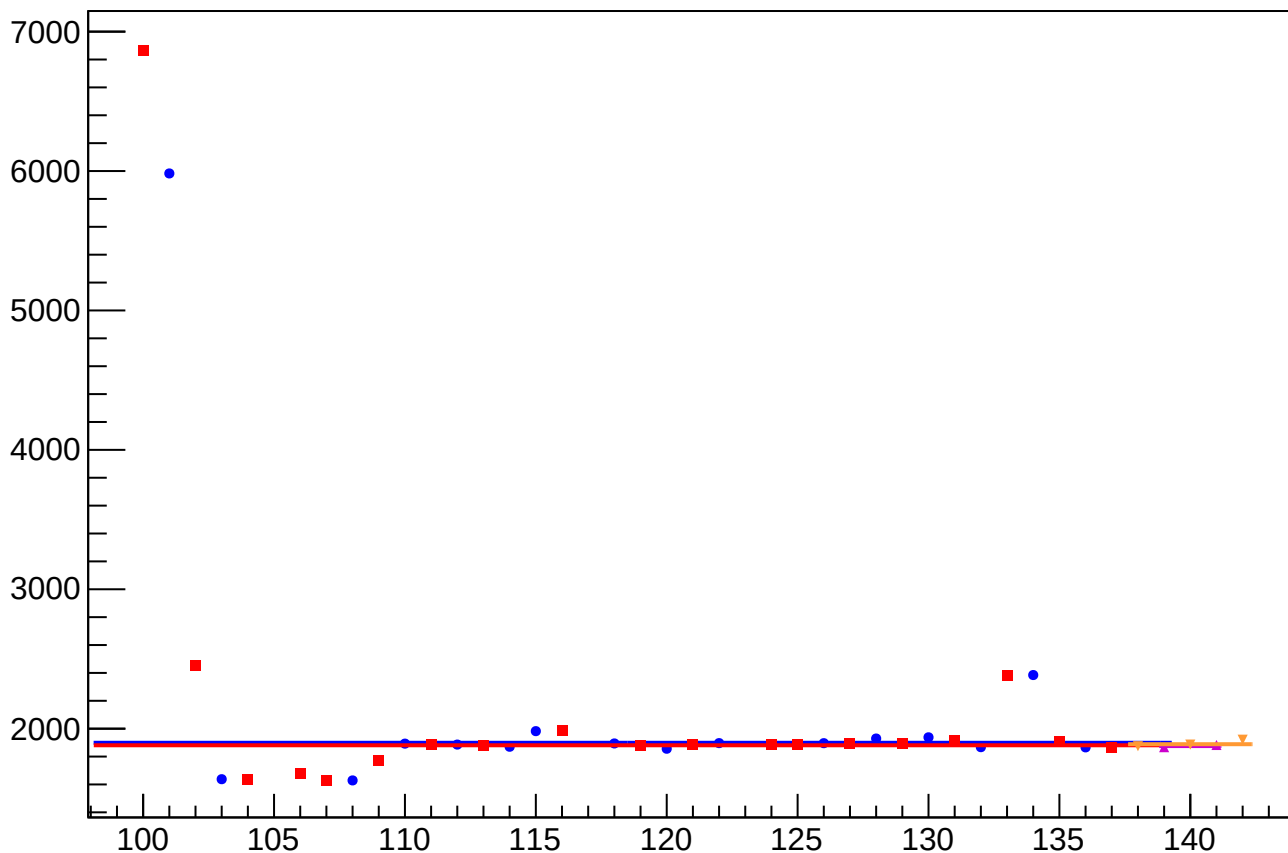
Right: -541.597+/-504.285 χ^2/NDF : 26.4/34

In: -1155.985+/-644.863 χ^2/NDF : 14.7/17

Out: 516.732+/-620.314 χ^2/NDF : 12.1/21

All: -287.182+/-447.055 χ^2/NDF : 30.3/39

eigen_cor_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1898.826+/-0.511 χ^2/NDF : 697514.4/15

Left Out: 1888.681+/-0.929 χ^2/NDF :345.1/2

Right Out: 1881.007+/-0.497 χ^2/NDF : 216564.4/18

Left In: 1875.303+/-1.008 χ^2/NDF :61.4/1

Left: 1882.531+/-0.683 χ^2/NDF : 501.7/4

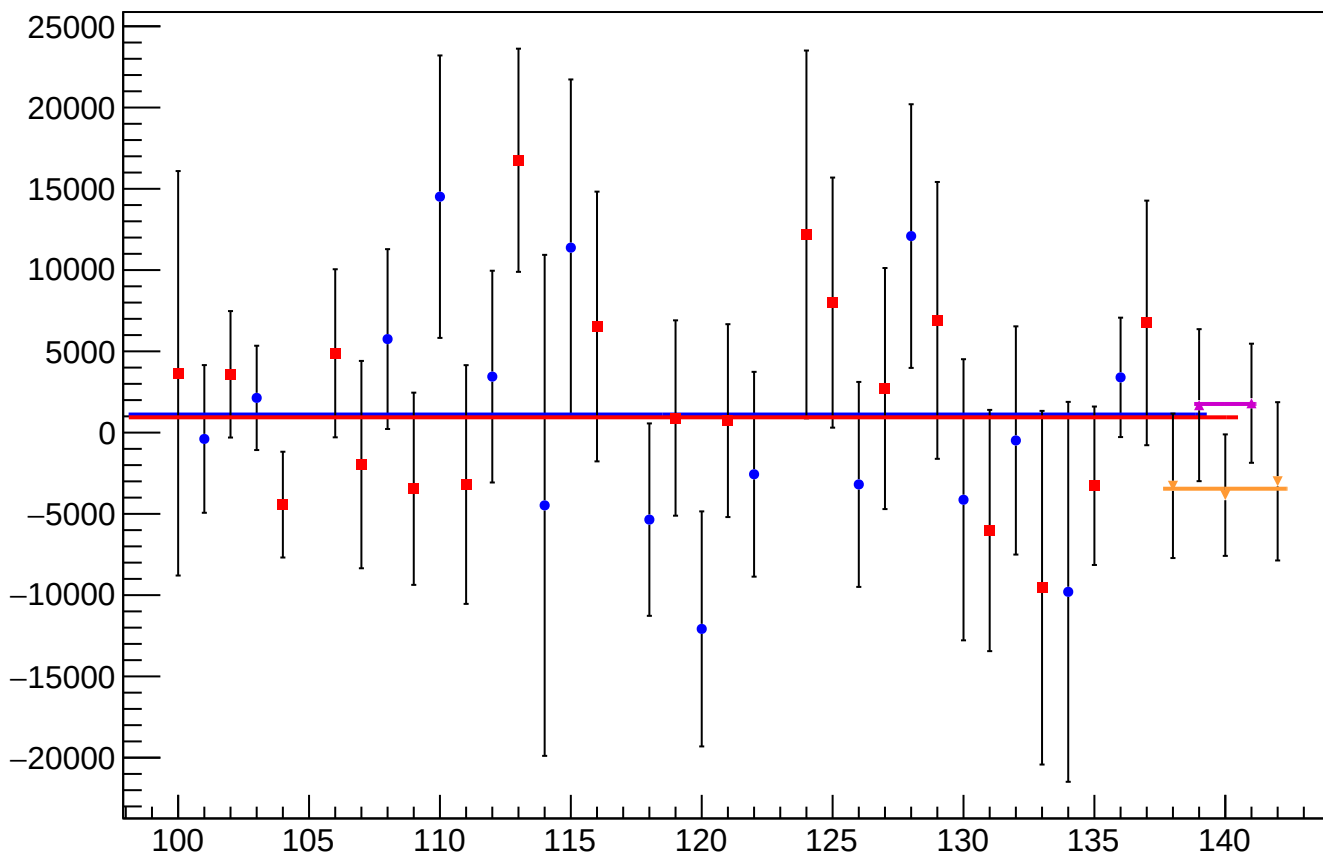
Right: 1889.658+/-0.356 χ^2/NDF : 914703.5/34

In: 1894.009+/-0.456 χ^2/NDF :698009.1/17

Out: 1882.712+/-0.438 χ^2/NDF :216962.5/21

All: 1888.134+/-0.316 χ^2/NDF : 915290.8/39

asym_atr_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 1111.533+/-1479.438 χ^2/NDF : 13.4/15

Left Out: -3452.483+/-2466.447 χ^2/NDF : 0.0/2

Right Out: 940.712+/-1398.993 χ^2/NDF : 16.2/18

Left In: 1761.616+/-2884.452 χ^2/NDF : 0.0/1

Left: -1250.282+/-1874.573 χ^2/NDF : 1.9/4

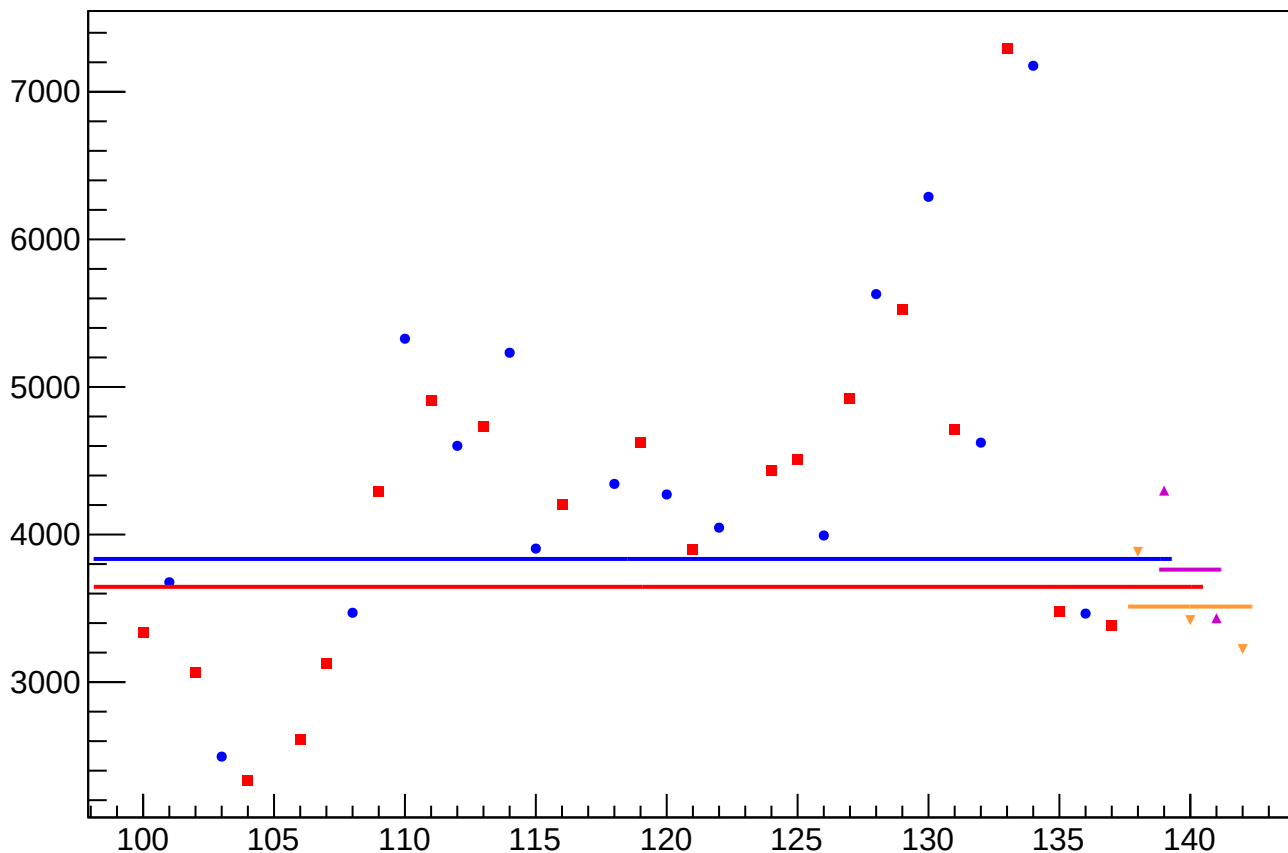
Right: 1021.352+/-1016.487 χ^2/NDF : 29.6/34

In: 1246.930+/-1316.387 χ^2/NDF : 13.4/17

Out: -128.653+/-1216.871 χ^2/NDF : 18.6/21

All: 505.184+/-893.571 χ^2/NDF : 32.6/39

asym_atr_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3834.690+/-1.046 χ^2/NDF : 956312.2/15

Left Out: 3511.921+/-1.744 χ^2/NDF : 22144.0/2

Right Out: 3645.689+/-0.989 χ^2/NDF : 1124981.4/18

Left In: 3762.420+/-2.040 χ^2/NDF : 42339.6/1

Left: 3617.721+/-1.326 χ^2/NDF : 73196.7/4

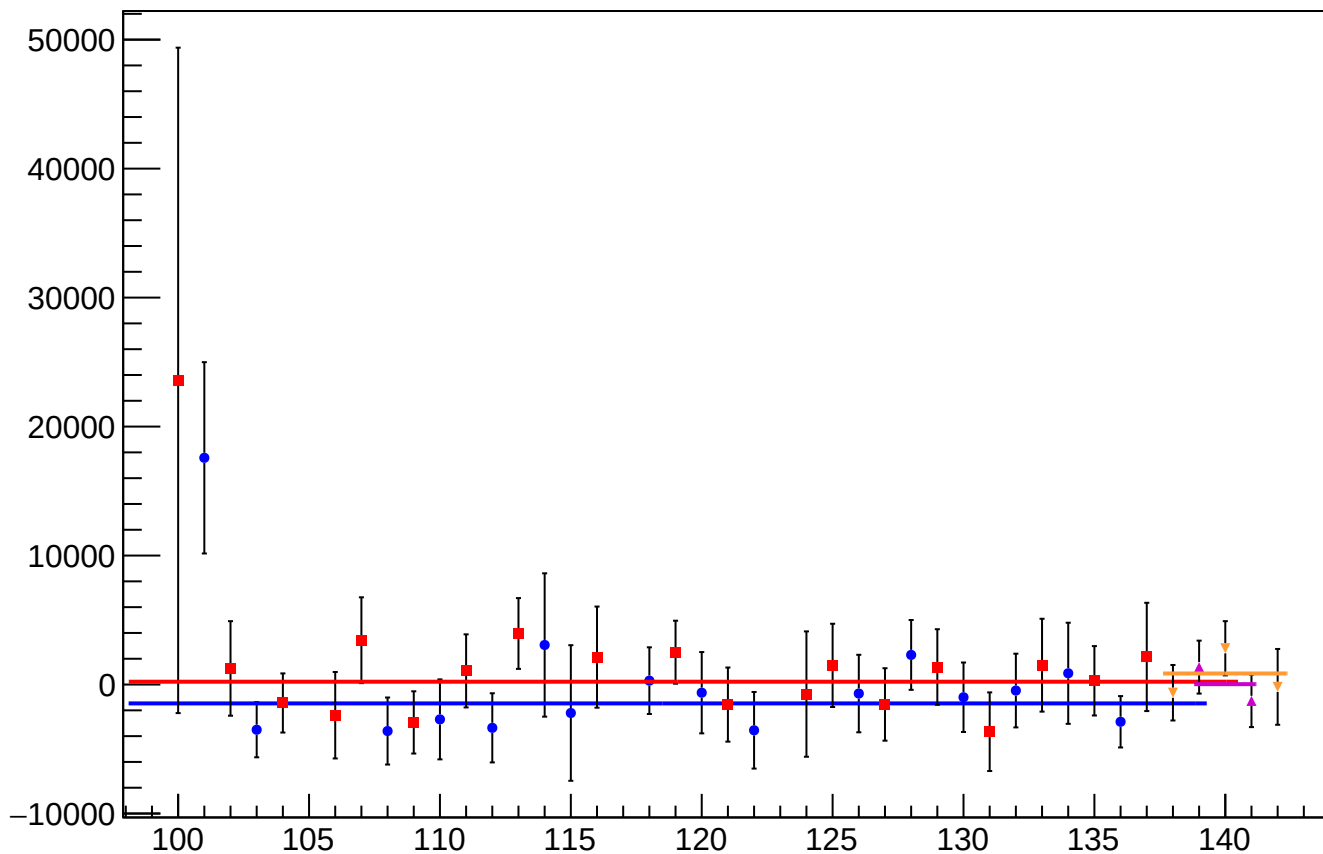
Right: 3734.912+/-0.719 χ^2/NDF : 2098525.6/34

In: 3819.638+/-0.931 χ^2/NDF : 999645.8/17

Out: 3613.128+/-0.860 χ^2/NDF : 1151576.3/21

All: 3708.283+/-0.632 χ^2/NDF : 2177762.7/39

dit_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1462.640 $\pm$ 728.274 χ^2 /NDF: 13.6/15

Left Out: 857.583 $\pm$ 1338.582 χ^2 /NDF: 1.5/2

Right Out: 219.726 $\pm$ 708.852 χ^2 /NDF: 10.8/18

Left In: 29.598 $\pm$ 1444.584 χ^2 /NDF: 0.8/1

Left: 475.080 $\pm$ 981.858 χ^2 /NDF: 2.5/4

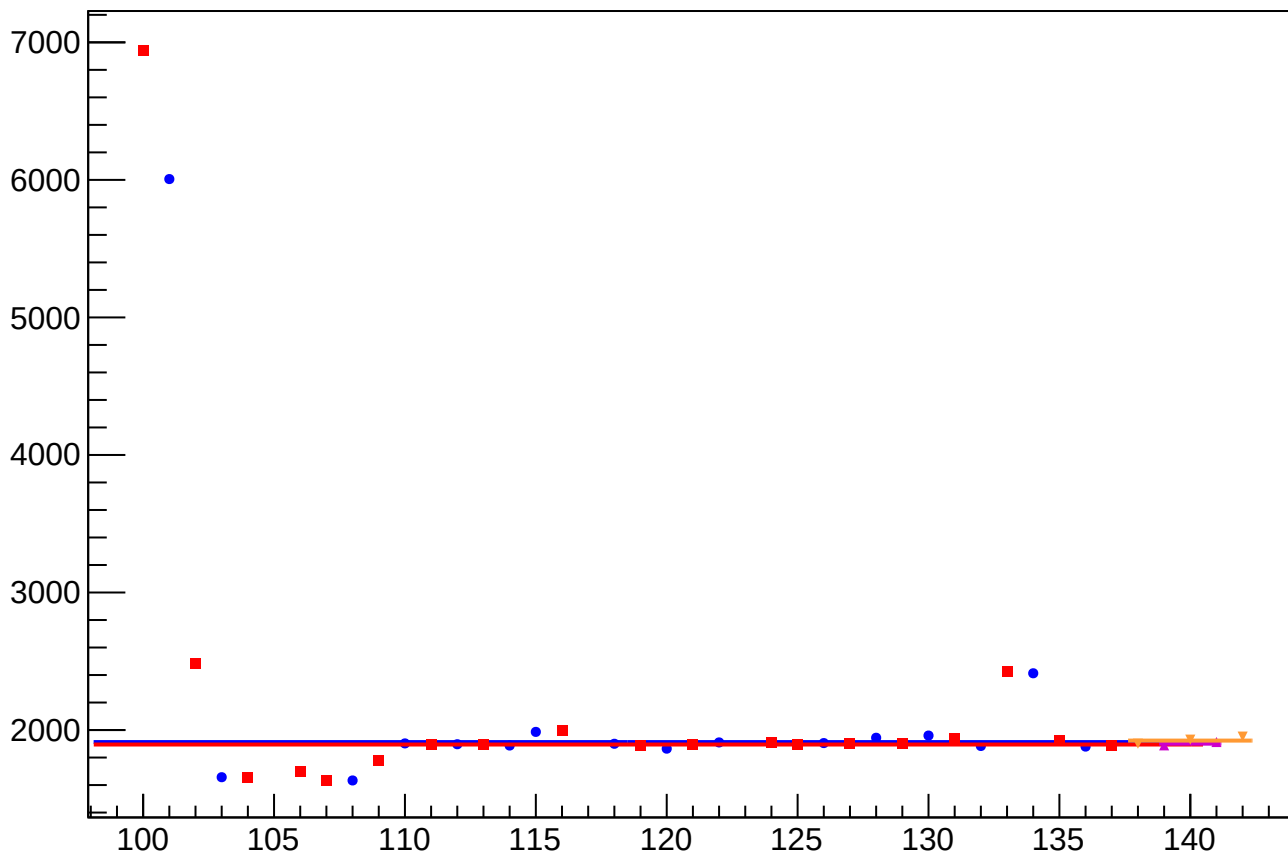
Right: -598.725 $\pm$ 507.962 χ^2 /NDF: 27.1/34

In: -1160.234 $\pm$ 650.307 χ^2 /NDF: 15.2/17

Out: 359.424 $\pm$ 626.438 χ^2 /NDF: 12.4/21

All: -372.004 $\pm$ 451.161 χ^2 /NDF: 30.5/39

dit_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1912.378+/-0.515 χ^2/NDF : 696220.3/15

Left Out: 1923.282+/-0.947 χ^2/NDF : 437.3/2

Right Out: 1894.765+/-0.501 χ^2/NDF : 219781.5/18

Left In: 1900.960+/-1.021 χ^2/NDF : 140.9/1

Left: 1912.970+/-0.694 χ^2/NDF : 835.0/4

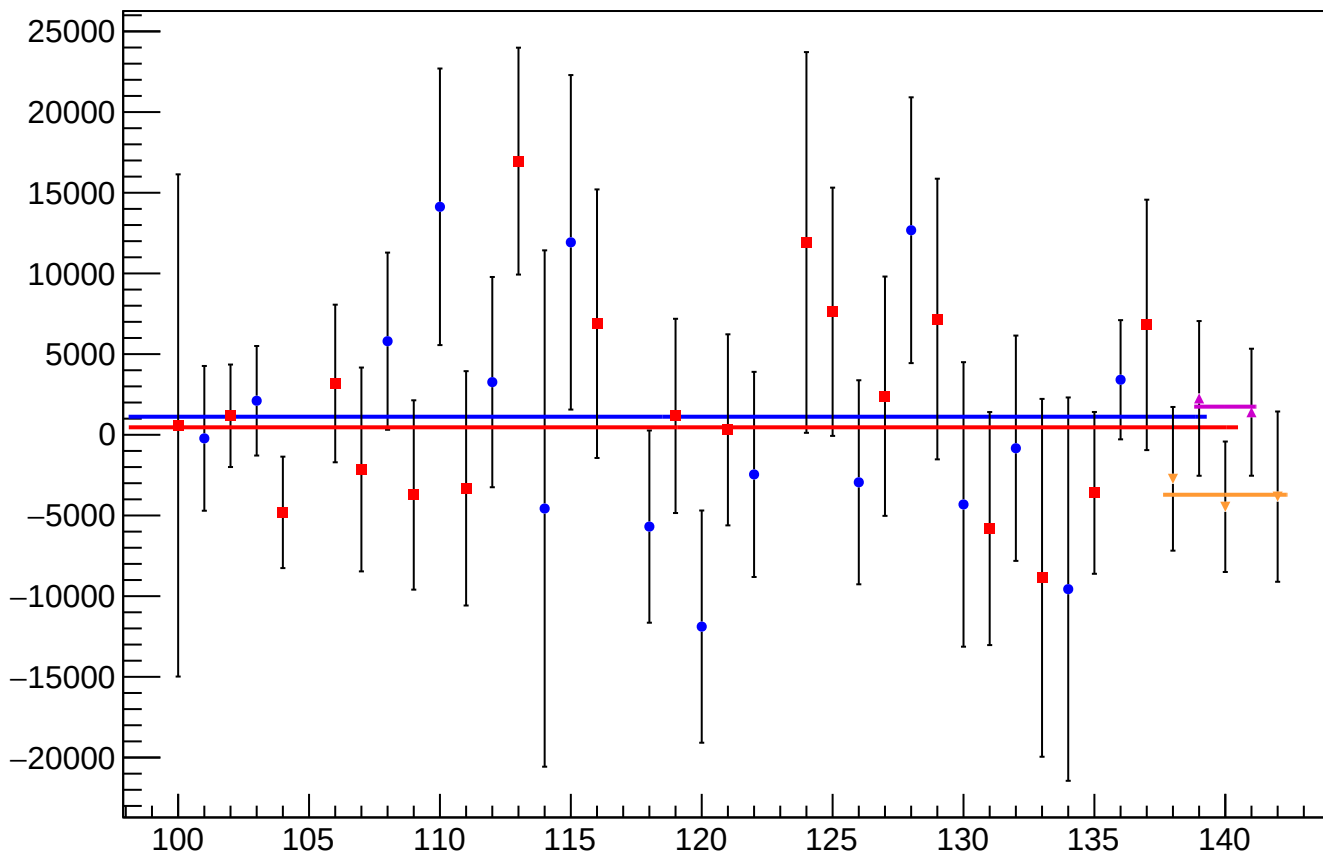
Right: 1903.324+/-0.359 χ^2/NDF : 916603.1/34

In: 1910.064+/-0.460 χ^2/NDF : 696460.7/17

Out: 1901.000+/-0.443 χ^2/NDF : 220928.0/21

All: 1905.359+/-0.319 χ^2/NDF : 917590.4/39

asym_atr_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1120.173+/-1497.671 χ^2/NDF : 13.5/15

Left Out: -3714.871+/-2603.273 χ^2/NDF : 0.1/2

Right Out: 464.368+/-1370.818 χ^2/NDF : 15.0/18

Left In: 1743.623+/-3041.882 χ^2/NDF : 0.0/1

Left: -1407.184+/-1977.854 χ^2/NDF : 2.0/4

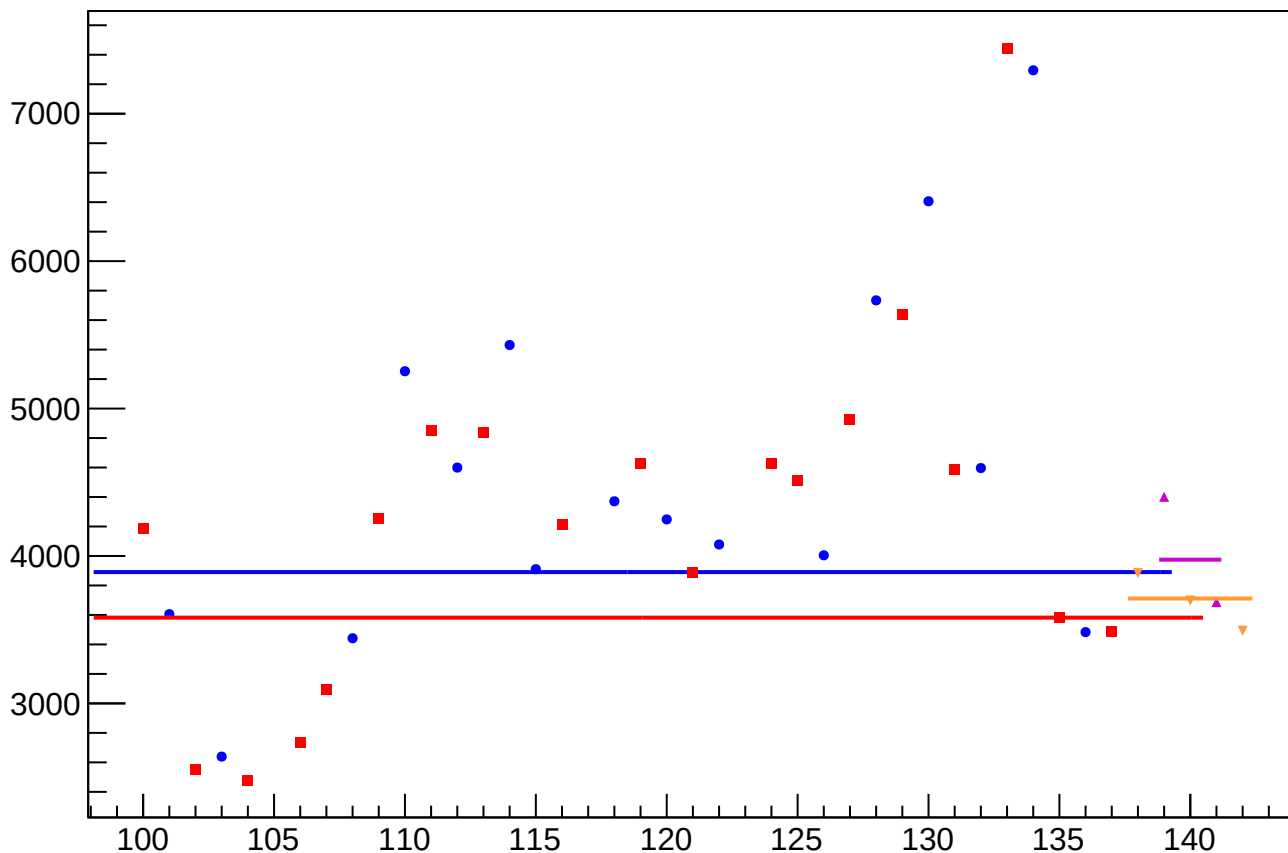
Right: 763.326+/-1011.192 χ^2/NDF : 28.6/34

In: 1241.815+/-1343.644 χ^2/NDF : 13.5/17

Out: -442.890+/-1212.932 χ^2/NDF : 17.1/21

All: 313.553+/-900.347 χ^2/NDF : 31.5/39

asym_atr_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3890.708 $\pm$ 1.059 χ^2/NDF : 878418.2/15

Left Out: 3711.330 $\pm$ 1.841 χ^2/NDF : 6443.0/2

Right Out: 3581.780 $\pm$ 0.969 χ^2/NDF : 1221855.2/18

Left In: 3974.975 $\pm$ 2.151 χ^2/NDF : 26532.6/1

Left: 3822.791 $\pm$ 1.399 χ^2/NDF : 41647.9/4

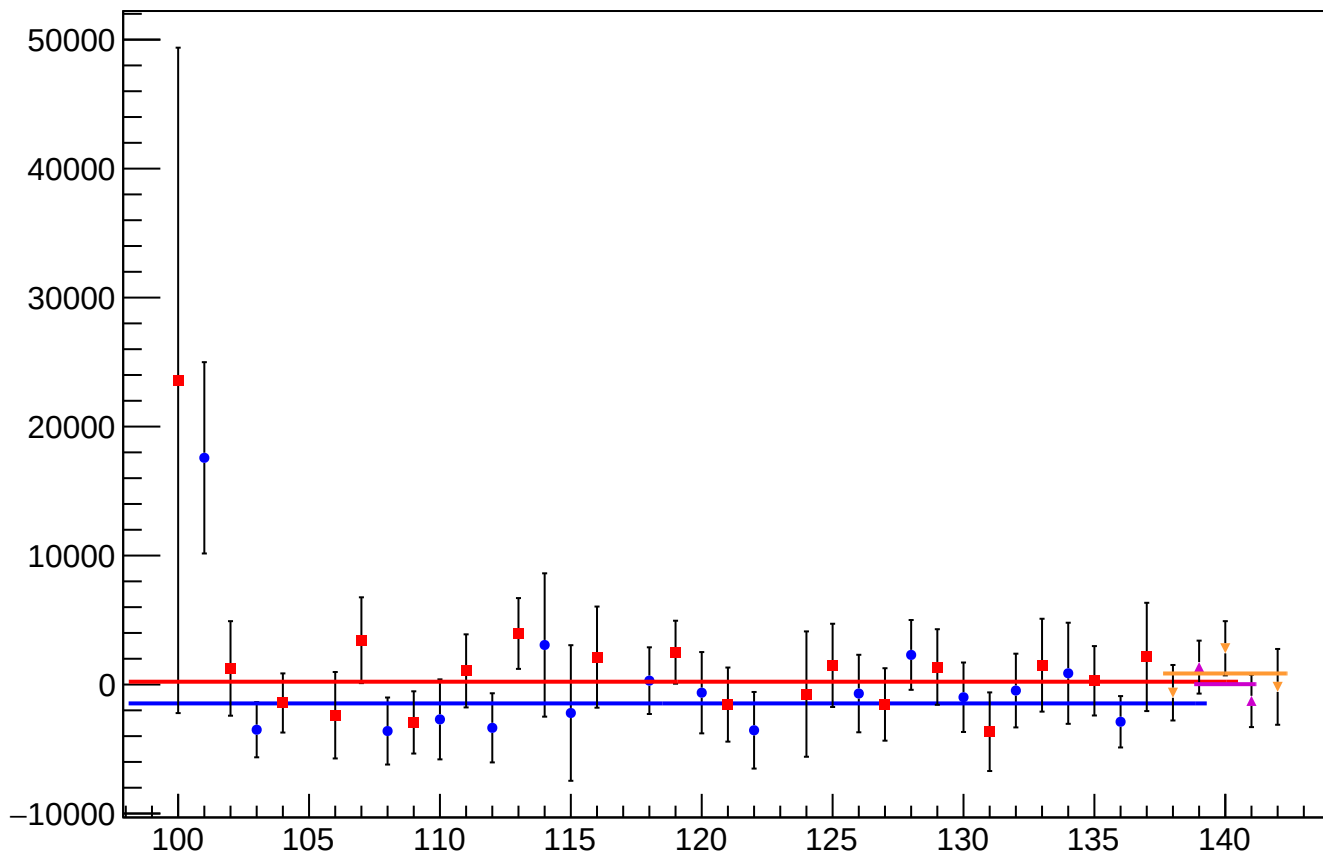
Right: 3722.609 $\pm$ 0.715 χ^2/NDF : 2146577.5/34

In: 3907.149 $\pm$ 0.950 χ^2/NDF : 906186.1/17

Out: 3609.904 $\pm$ 0.858 χ^2/NDF : 1232176.0/21

All: 3743.369 $\pm$ 0.637 χ^2/NDF : 2192293.3/39

eigen_dit_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1462.646 $\pm$ 728.274 χ^2 /NDF: 13.6/15

Left Out: 857.577 $\pm$ 1338.582 χ^2 /NDF: 1.5/2

Right Out: 219.720 $\pm$ 708.852 χ^2 /NDF: 10.8/18

Left In: 29.615 $\pm$ 1444.584 χ^2 /NDF: 0.8/1

Left: 475.085 $\pm$ 981.858 χ^2 /NDF: 2.5/4

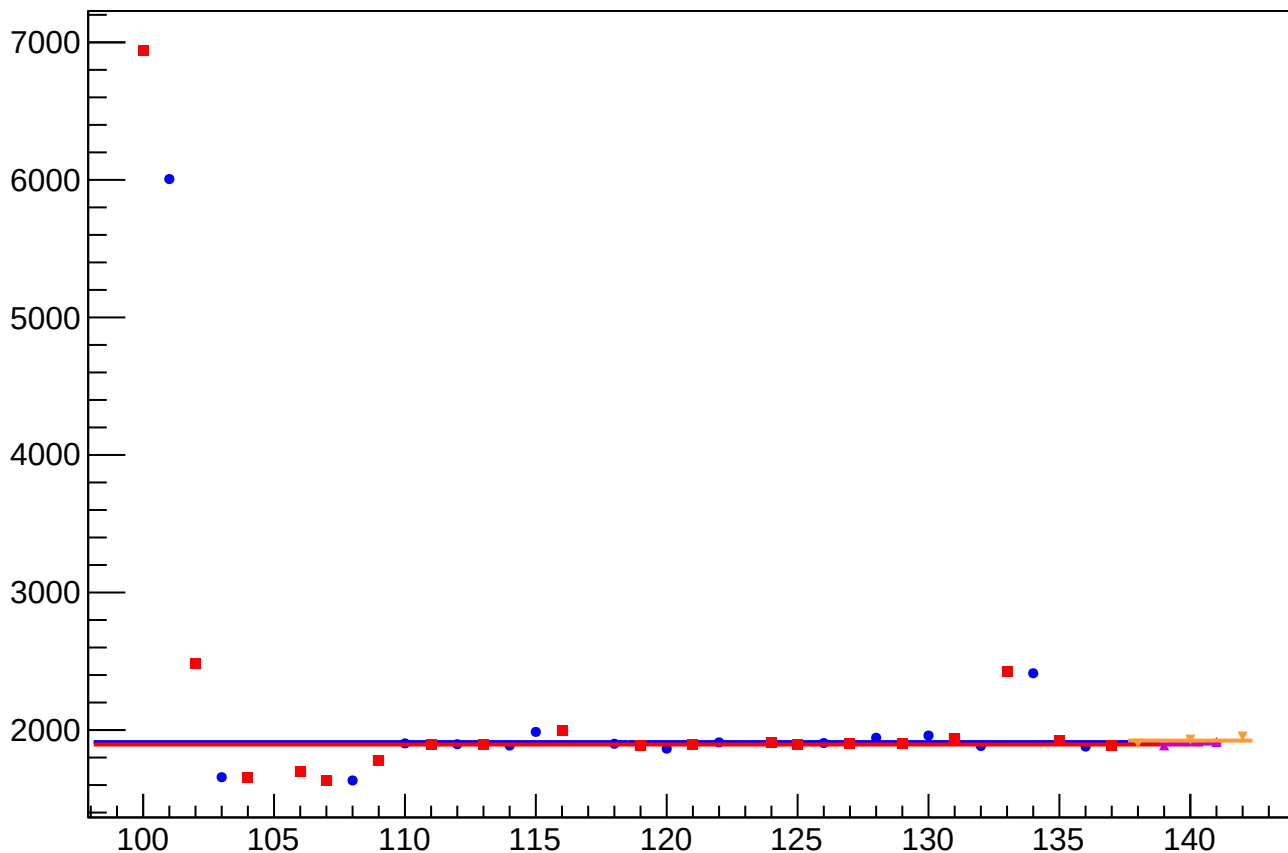
Right: -598.730 $\pm$ 507.962 χ^2 /NDF: 27.1/34

In: -1160.235 $\pm$ 650.307 χ^2 /NDF: 15.2/17

Out: 359.418 $\pm$ 626.438 χ^2 /NDF: 12.4/21

All: -372.008 $\pm$ 451.161 χ^2 /NDF: 30.5/39

eigen_dit_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1912.378+/-0.515 χ^2/NDF : 696220.1/15

Left Out: 1923.282+/-0.947 χ^2/NDF : 437.3/2

Right Out: 1894.765+/-0.501 χ^2/NDF : 219781.5/18

Left In: 1900.961+/-1.021 χ^2/NDF : 140.8/1

Left: 1912.970+/-0.694 χ^2/NDF : 835.0/4

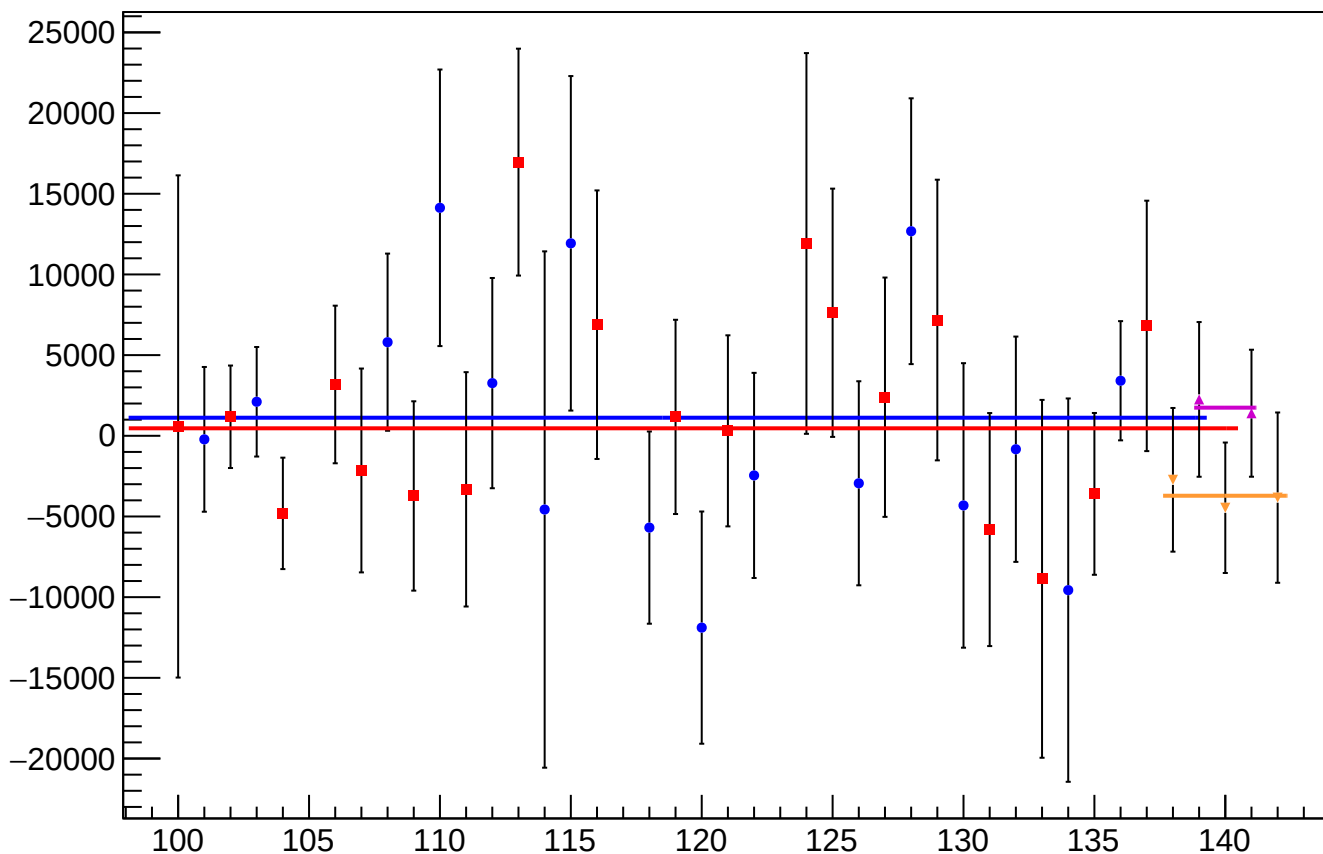
Right: 1903.324+/-0.359 χ^2/NDF : 916602.9/34

In: 1910.064+/-0.460 χ^2/NDF : 696460.6/17

Out: 1901.000+/-0.443 χ^2/NDF : 220927.9/21

All: 1905.359+/-0.319 χ^2/NDF : 917590.3/39

asym_atr_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1120.159+/-1497.669 χ^2/NDF : 13.5/15

Left Out: -3714.880+/-2603.275 χ^2/NDF : 0.1/2

Right Out: 464.367+/-1370.817 χ^2/NDF : 15.0/18

Left In: 1743.640+/-3041.884 χ^2/NDF : 0.0/1

Left: -1407.183+/-1977.856 χ^2/NDF : 2.0/4

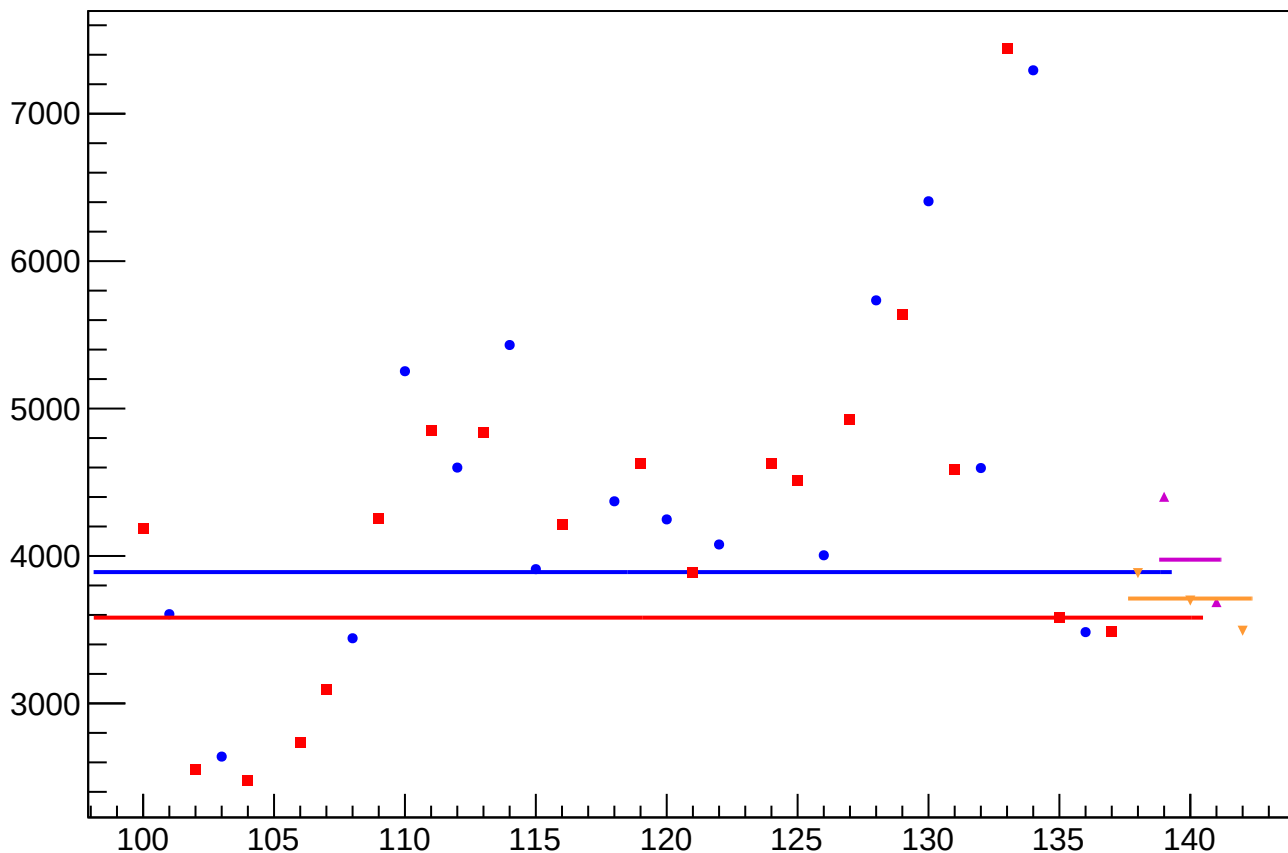
Right: 763.319+/-1011.191 χ^2/NDF : 28.6/34

In: 1241.807+/-1343.643 χ^2/NDF : 13.5/17

Out: -442.890+/-1212.931 χ^2/NDF : 17.1/21

All: 313.549+/-900.347 χ^2/NDF : 31.5/39

asym_atr_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3890.705+/-1.059 χ^2/NDF : 878409.2/15

Left Out: 3711.332+/-1.841 χ^2/NDF : 6443.3/2

Right Out: 3581.777+/-0.969 χ^2/NDF : 1221846.6/18

Left In: 3974.978+/-2.151 χ^2/NDF : 26533.5/1

Left: 3822.794+/-1.399 χ^2/NDF : 41649.1/4

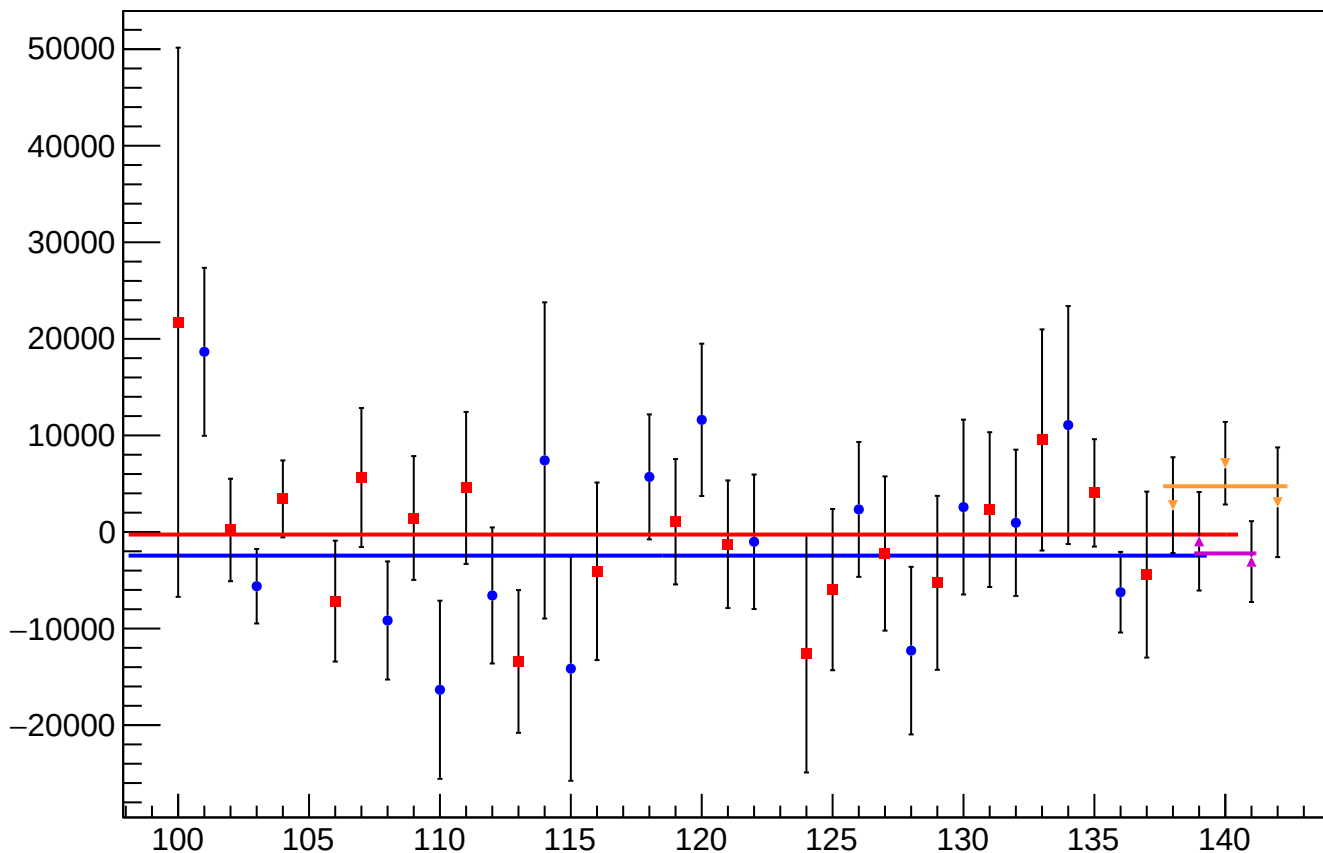
Right: 3722.606+/-0.715 χ^2/NDF : 2146560.1/34

In: 3907.148+/-0.950 χ^2/NDF : 906178.3/17

Out: 3609.902+/-0.858 χ^2/NDF : 1232168.0/21

All: 3743.367+/-0.637 χ^2/NDF : 2192277.6/39

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -2448.262+/-1719.694 χ^2/NDF : 20.9/15

Left Out: 4733.653+/-2813.171 χ^2/NDF : 0.6/2

Right Out: -265.886+/-1622.574 χ^2/NDF : 10.7/18

Left In: -2221.307+/-3236.870 χ^2/NDF : 0.1/1

Left: 1740.868+/-2123.321 χ^2/NDF : 3.3/4

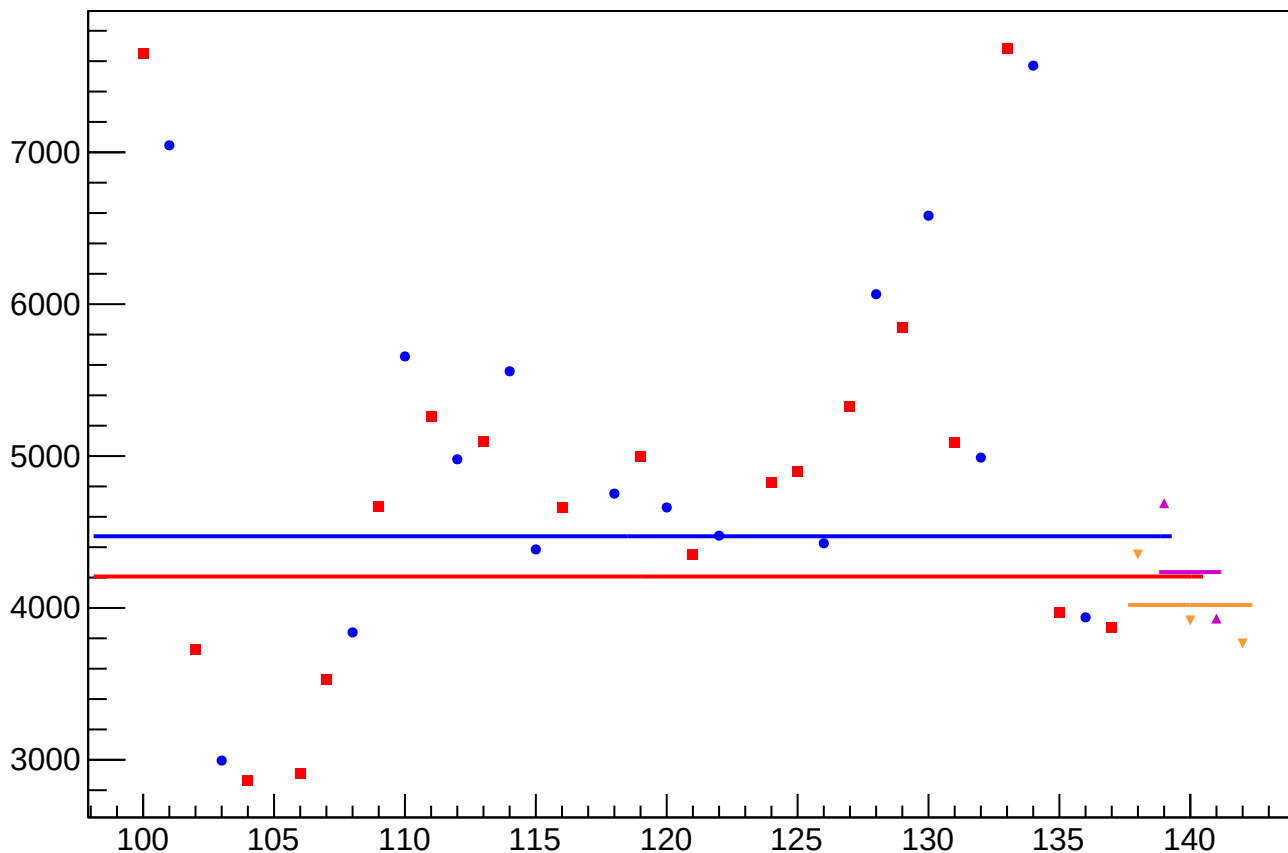
Right: -1293.712+/-1180.174 χ^2/NDF : 32.4/34

In: -2398.303+/-1518.668 χ^2/NDF : 21.0/17

Out: 982.139+/-1405.539 χ^2/NDF : 13.6/21

All: -577.498+/-1031.544 χ^2/NDF : 37.3/39

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 4471.904 ± 1.216 χ^2/NDF : 891678.4/15

Left Out: 4019.518 ± 1.989 χ^2/NDF : 14083.4/2

Right Out: 4206.907 ± 1.138 χ^2/NDF : 846525.2/18

Left In: 4236.270 ± 2.289 χ^2/NDF : 26470.1/1

Left: 4112.789 ± 1.501 χ^2/NDF : 45662.6/4

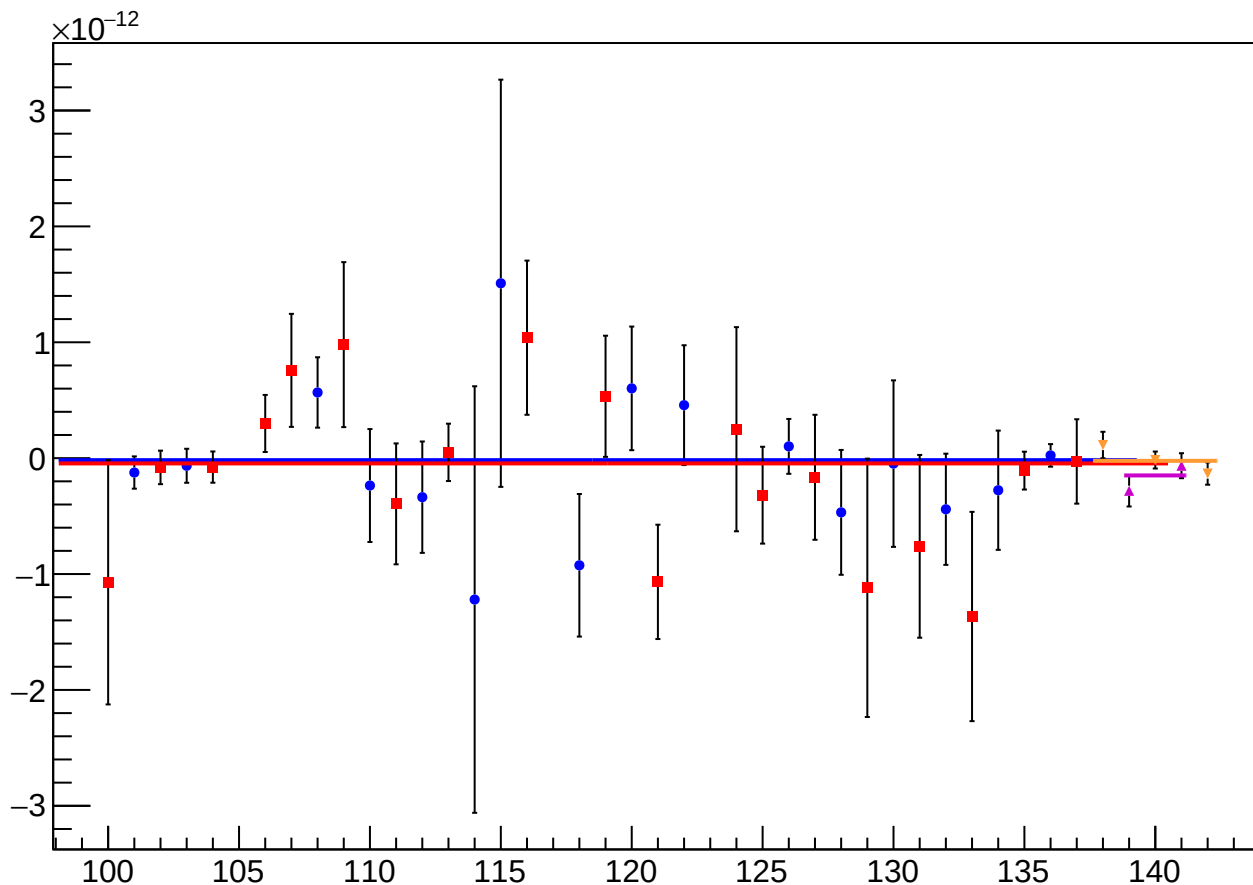
Right: 4330.631 ± 0.831 χ^2/NDF : 1763521.7/34

In: 4420.035 ± 1.074 χ^2/NDF : 926414.2/17

Out: 4160.702 ± 0.988 χ^2/NDF : 867294.6/21

All: 4279.557 ± 0.727 χ^2/NDF : 1825300.2/39

asym_atr_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 12.8/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 2.7/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 21.2/18

Left In: -0.000 ± 0.000 χ^2/NDF : 1.6/1

Left: -0.000 ± 0.000 χ^2/NDF : 5.9/4

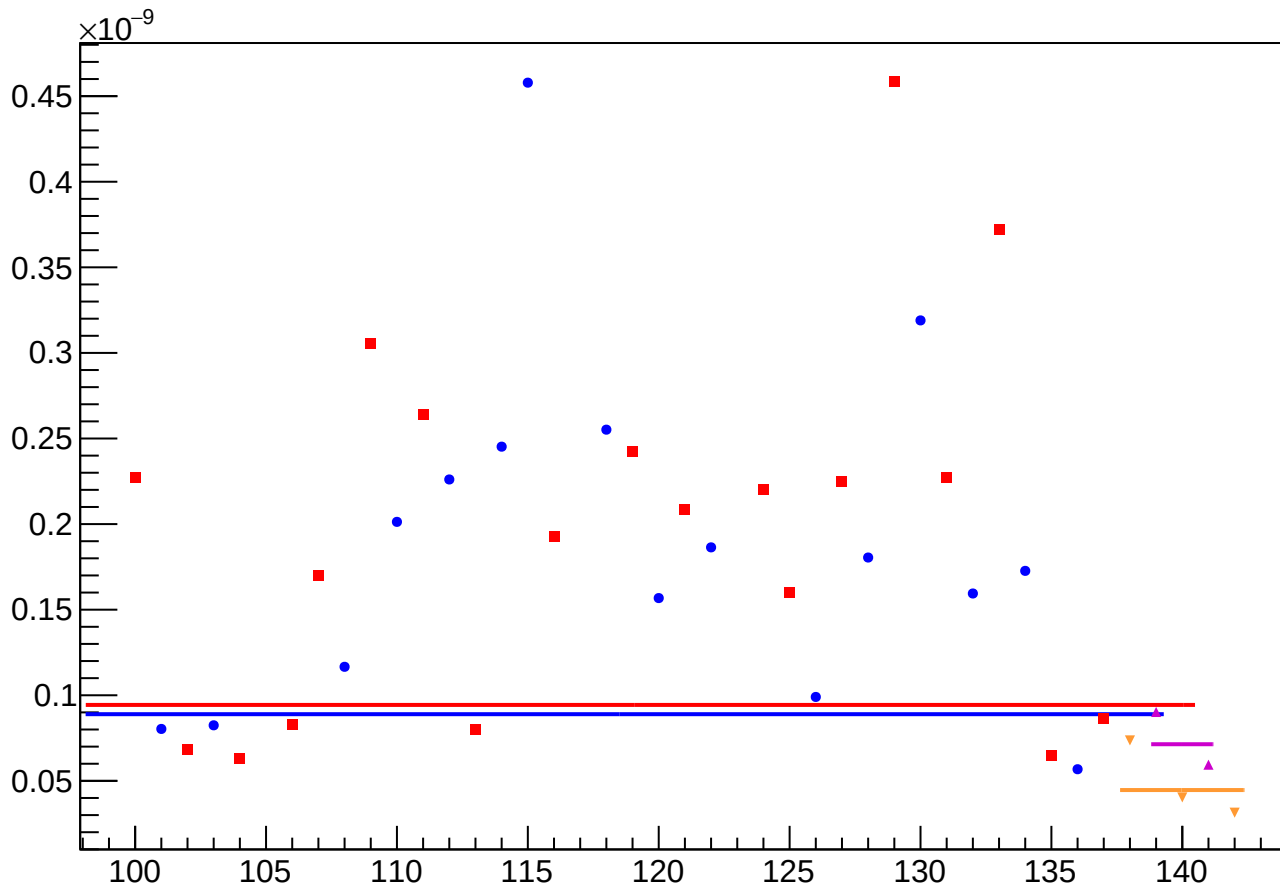
Right: -0.000 ± 0.000 χ^2/NDF : 34.1/34

In: -0.000 ± 0.000 χ^2/NDF : 15.9/17

Out: -0.000 ± 0.000 χ^2/NDF : 24.0/21

All: -0.000 ± 0.000 χ^2/NDF : 40.2/39

asym_atr_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1230222.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 173639.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1695078.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 63307.8/1

Left: 0.000+/-0.000 χ^2/NDF : 383059.1/4

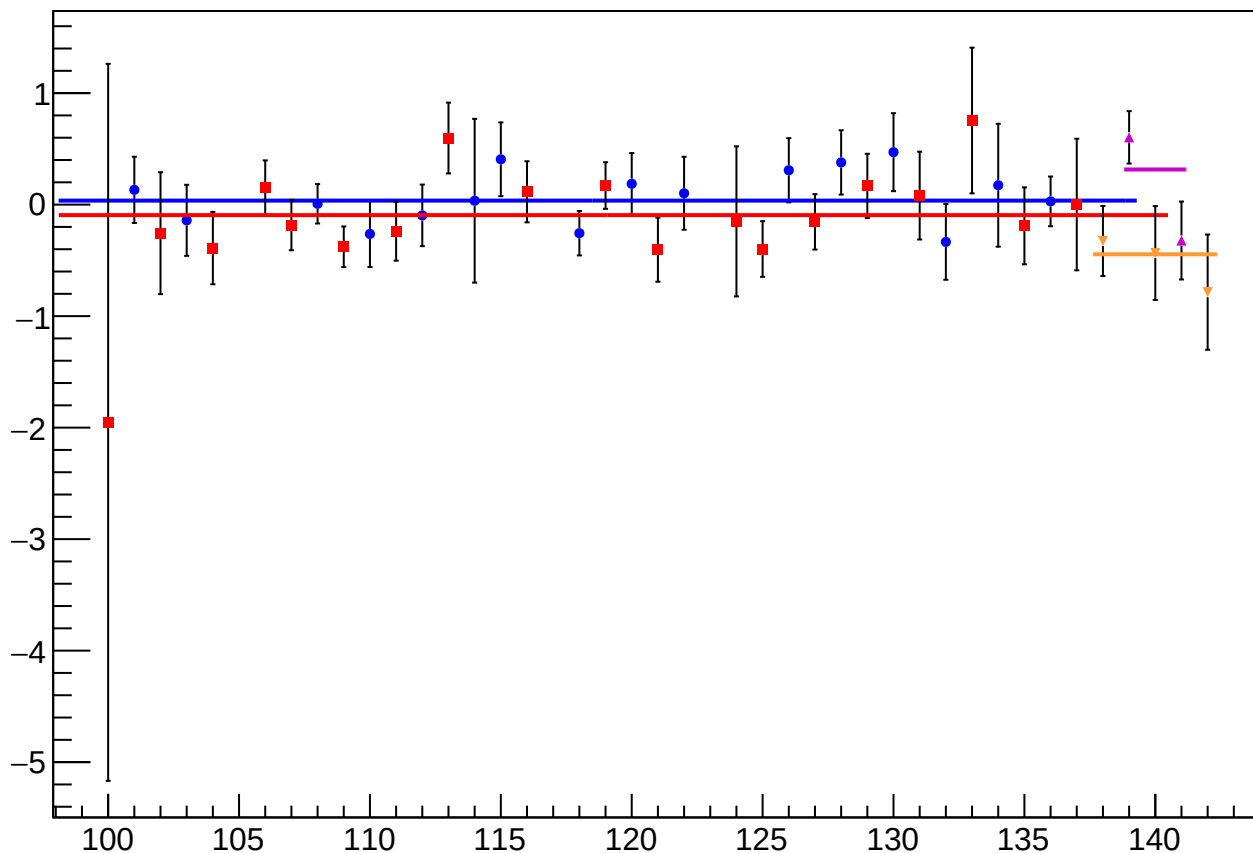
Right: 0.000+/-0.000 χ^2/NDF : 2932262.7/34

In: 0.000+/-0.000 χ^2/NDF : 1350084.9/17

Out: 0.000+/-0.000 χ^2/NDF : 2543301.8/21

All: 0.000+/-0.000 χ^2/NDF : 4084322.2/39

asym_atr_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.036 $\pm$ 0.071 χ^2 /NDF: 10.5/15

Left Out: -0.445 $\pm$ 0.226 χ^2 /NDF:0.6/2

Right Out: -0.094 $\pm$ 0.068 χ^2 /NDF: 17.6/18

Left In: 0.315 $\pm$ 0.195 χ^2 /NDF:4.8/1

Left: -0.009 $\pm$ 0.148 χ^2 /NDF: 11.9/4

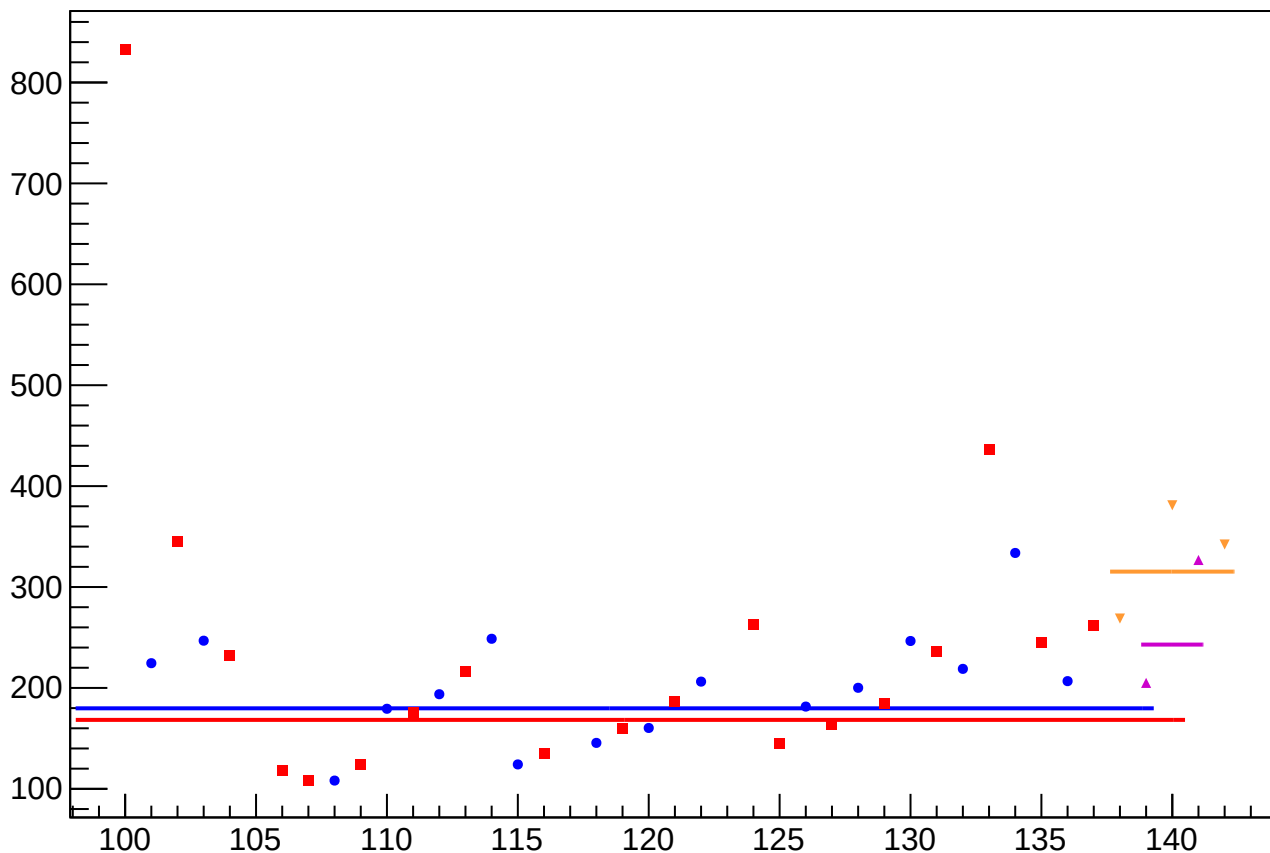
Right: -0.032 $\pm$ 0.049 χ^2 /NDF: 29.9/34

In: 0.068 $\pm$ 0.066 χ^2 /NDF:17.2/17

Out: -0.123 $\pm$ 0.065 χ^2 /NDF:20.4/21

All: -0.030 $\pm$ 0.046 χ^2 /NDF: 41.8/39

asym_atr_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 179.796+/-0.050 χ^2/NDF : 918536.0/15

Left Out: 315.276+/-0.160 χ^2/NDF : 98075.2/2

Right Out: 168.334+/-0.048 χ^2/NDF : 1409290.2/18

Left In: 242.956+/-0.138 χ^2/NDF : 167259.3/1

Left: 273.787+/-0.104 χ^2/NDF : 382554.1/4

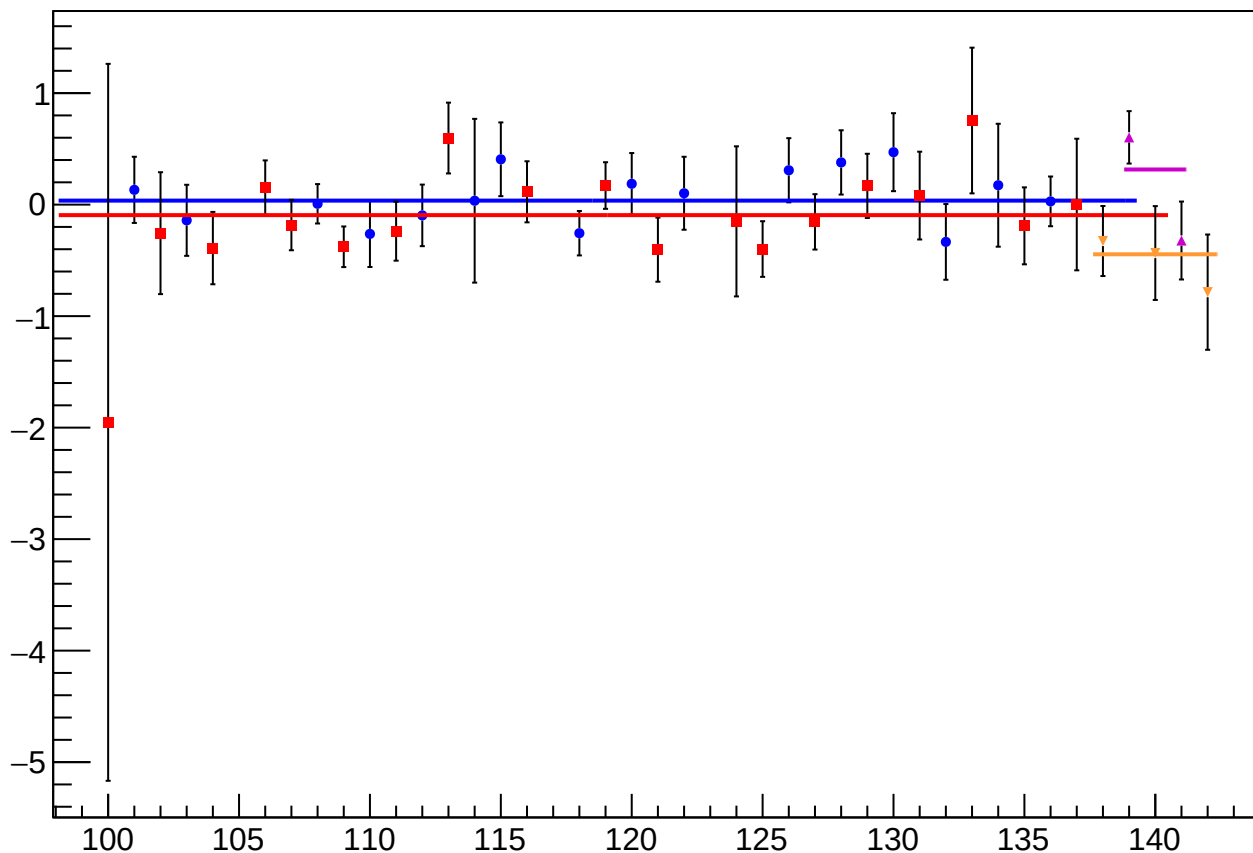
Right: 173.821+/-0.035 χ^2/NDF : 2355323.0/34

In: 187.108+/-0.047 χ^2/NDF : 1271232.3/17

Out: 180.386+/-0.046 χ^2/NDF : 2281700.8/21

All: 183.667+/-0.033 χ^2/NDF : 3563436.6/39

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.036 ± 0.071 $\chi^2/\text{NDF}: 10.5/15$

Left Out: -0.445 ± 0.226 $\chi^2/\text{NDF}: 0.6/2$

Right Out: -0.094 ± 0.068 $\chi^2/\text{NDF}: 17.6/18$

Left In: 0.315 ± 0.195 $\chi^2/\text{NDF}: 4.8/1$

Left: -0.009 ± 0.148 $\chi^2/\text{NDF}: 11.9/4$

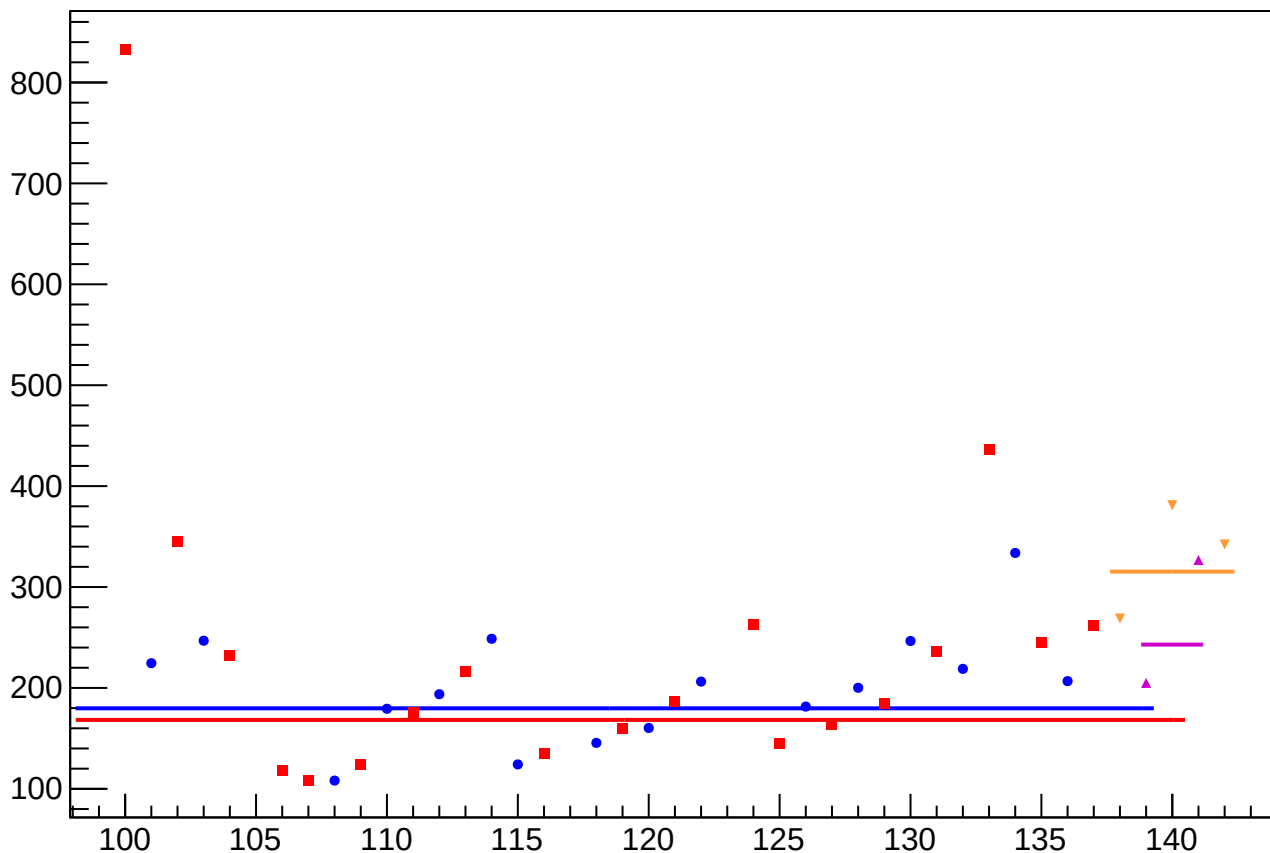
Right: -0.032 ± 0.049 $\chi^2/\text{NDF}: 29.9/34$

In: 0.068 ± 0.066 $\chi^2/\text{NDF}: 17.2/17$

Out: -0.123 ± 0.065 $\chi^2/\text{NDF}: 20.4/21$

All: -0.030 ± 0.046 $\chi^2/\text{NDF}: 41.8/39$

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 179.796+/-0.050 χ^2/NDF : 918536.0/15

Left Out: 315.276+/-0.160 χ^2/NDF : 98075.2/2

Right Out: 168.334+/-0.048 χ^2/NDF : 1409290.2/18

Left In: 242.956+/-0.138 χ^2/NDF : 167259.3/1

Left: 273.787+/-0.104 χ^2/NDF : 382554.1/4

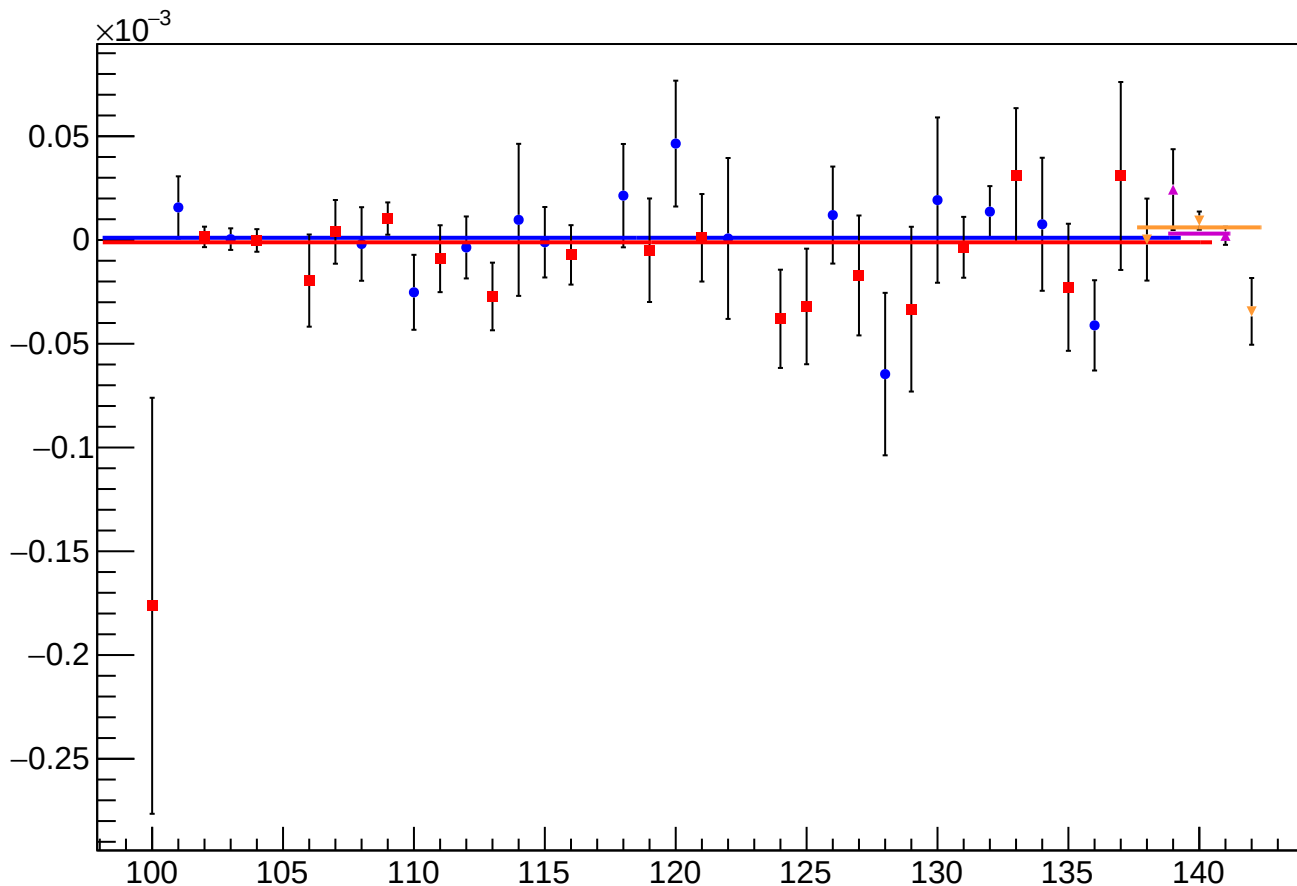
Right: 173.821+/-0.035 χ^2/NDF : 2355323.0/34

In: 187.108+/-0.047 χ^2/NDF : 1271232.3/17

Out: 180.386+/-0.046 χ^2/NDF : 2281700.8/21

All: 183.667+/-0.033 χ^2/NDF : 3563436.6/39

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 14.3/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 7.0/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 16.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 1.2/1

Left: 0.000 ± 0.000 χ^2/NDF : 8.5/4

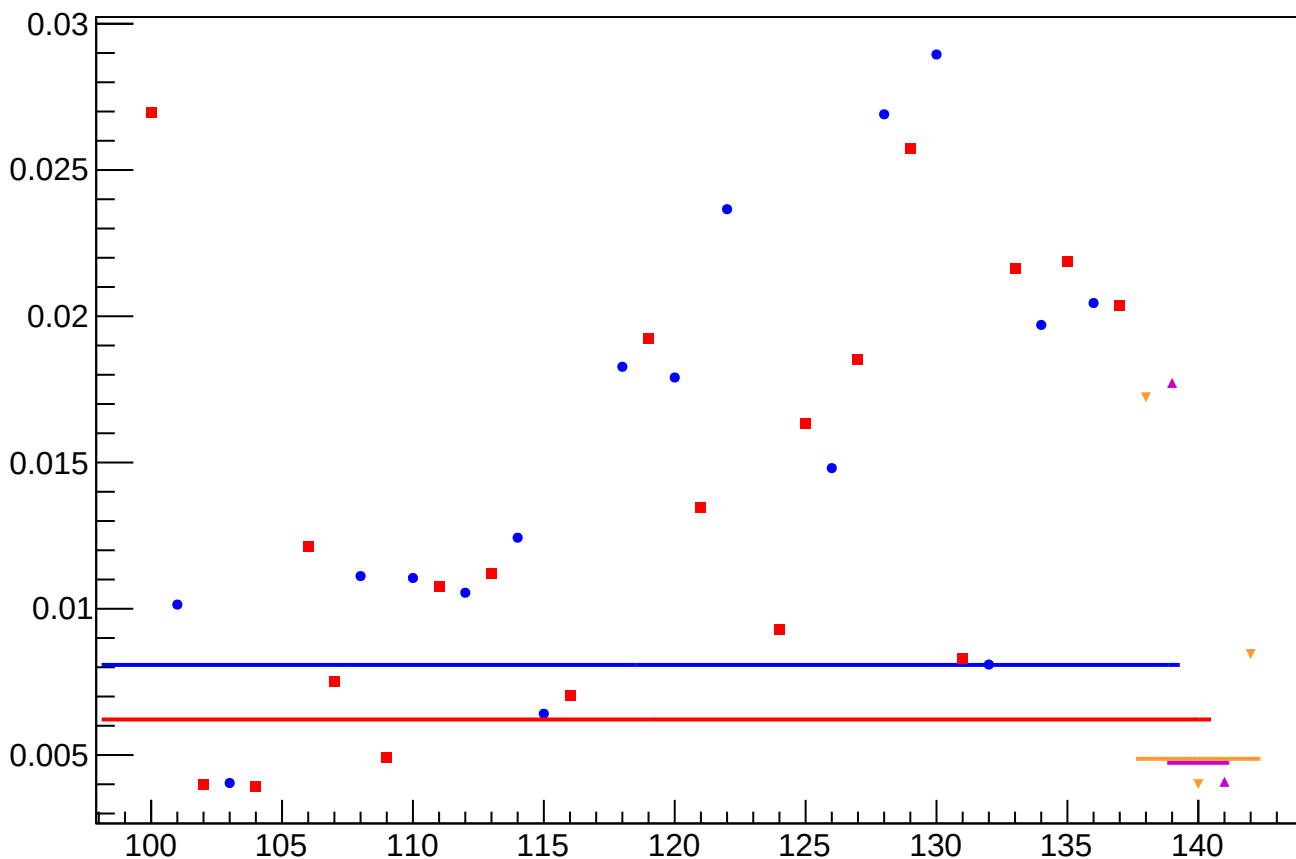
Right: -0.000 ± 0.000 χ^2/NDF : 30.5/34

In: 0.000 ± 0.000 χ^2/NDF : 15.7/17

Out: 0.000 ± 0.000 χ^2/NDF : 25.0/21

All: 0.000 ± 0.000 χ^2/NDF : 40.7/39

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000

χ^2/NDF : 4413462.8/15

Left Out: 0.005+/-0.000

χ^2/NDF : 960336.6/2

Right Out: 0.006+/-0.000

χ^2/NDF : 4560988.3/18

Left In: 0.005+/-0.000

χ^2/NDF : 933943.9/1

Left: 0.005+/-0.000

χ^2/NDF : 1895354.1/4

Right: 0.007+/-0.000

χ^2/NDF : 9295058.4/34

In: 0.007+/-0.000

χ^2/NDF : 6051852.3/17

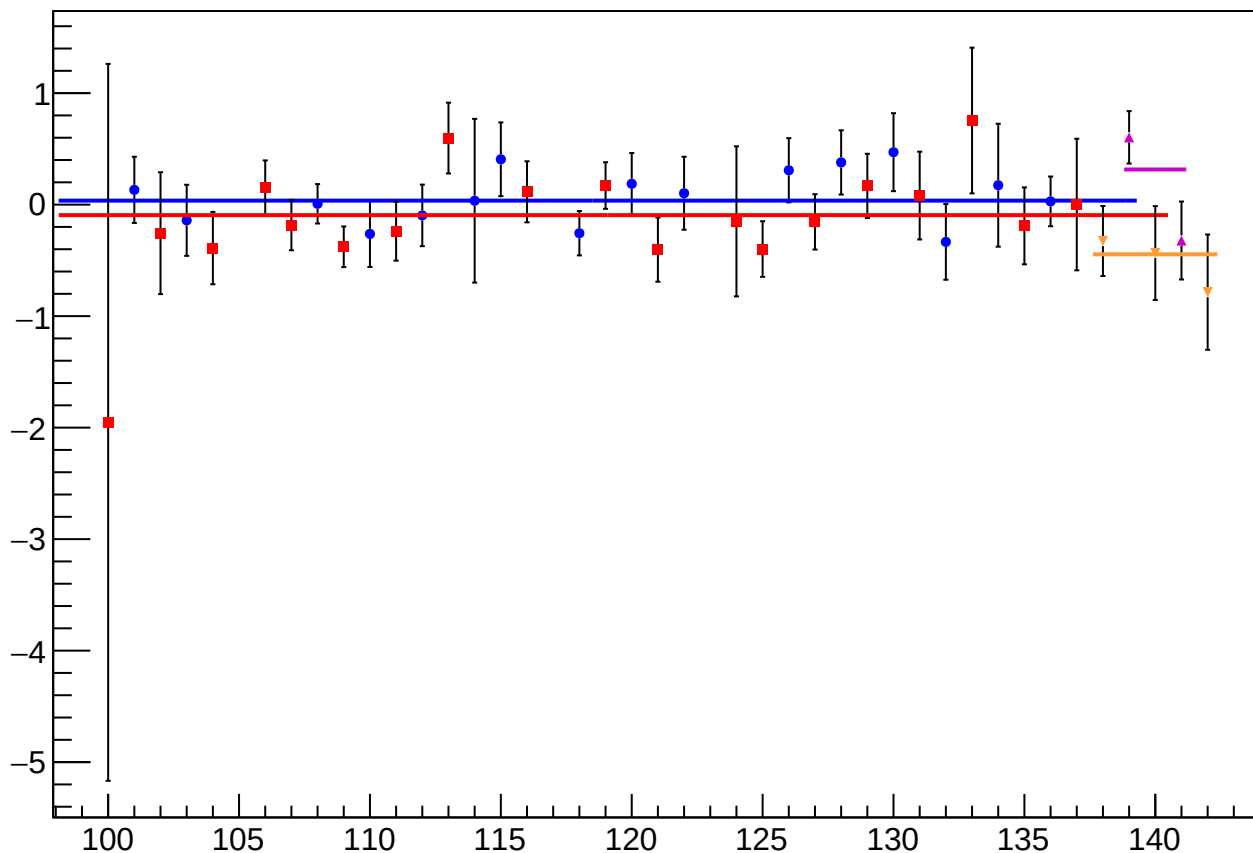
Out: 0.006+/-0.000

χ^2/NDF : 5666423.1/21

All: 0.006+/-0.000

χ^2/NDF : 11825828.8/39

asym_atr_dd_eigen_dit_vs_Slug, Sign Corrected



Right In: 0.036 ± 0.071 $\chi^2/\text{NDF}: 10.5/15$

Left Out: -0.446 ± 0.226 $\chi^2/\text{NDF}: 0.6/2$

Right Out: -0.094 ± 0.068 $\chi^2/\text{NDF}: 17.6/18$

Left In: 0.315 ± 0.195 $\chi^2/\text{NDF}: 4.8/1$

Left: -0.009 ± 0.148 $\chi^2/\text{NDF}: 11.9/4$

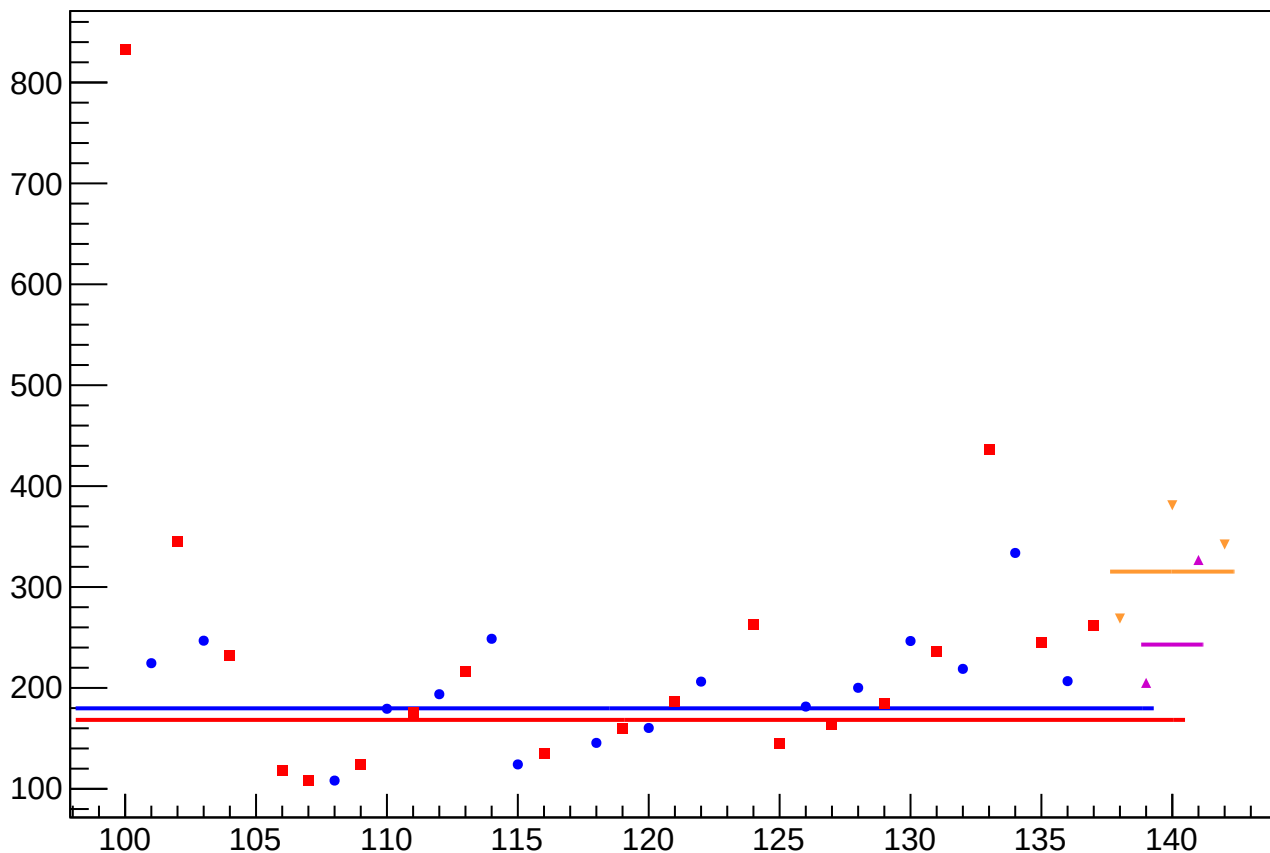
Right: -0.032 ± 0.049 $\chi^2/\text{NDF}: 29.9/34$

In: 0.068 ± 0.066 $\chi^2/\text{NDF}: 17.2/17$

Out: -0.123 ± 0.065 $\chi^2/\text{NDF}: 20.4/21$

All: -0.030 ± 0.046 $\chi^2/\text{NDF}: 41.8/39$

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 179.793+/-0.050 χ^2/NDF : 918583.7/15

Left Out: 315.279+/-0.160 χ^2/NDF : 98063.2/2

Right Out: 168.334+/-0.048 χ^2/NDF : 1409289.2/18

Left In: 242.959+/-0.138 χ^2/NDF : 167244.4/1

Left: 273.790+/-0.104 χ^2/NDF : 382525.2/4

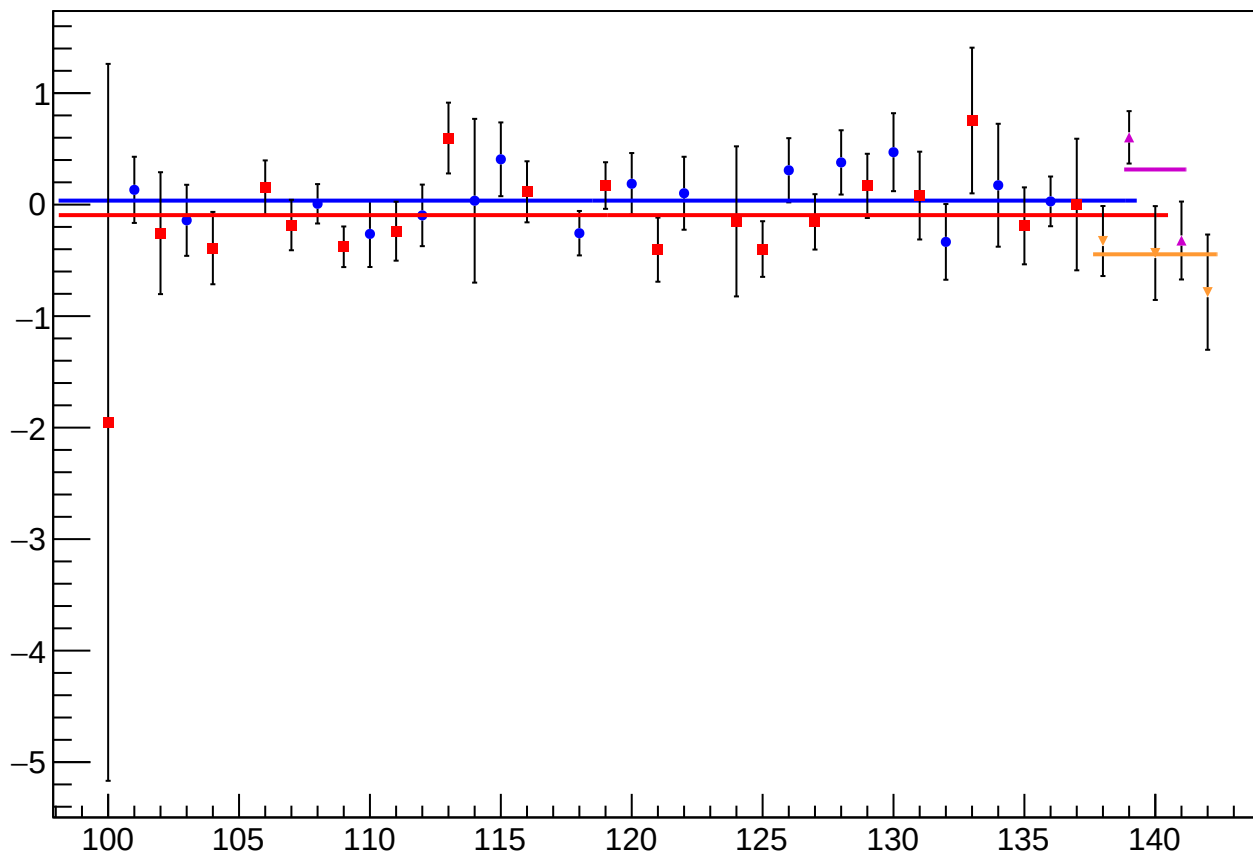
Right: 173.819+/-0.035 χ^2/NDF : 2355358.4/34

In: 187.106+/-0.047 χ^2/NDF : 1271295.5/17

Out: 180.386+/-0.046 χ^2/NDF : 2281711.3/21

All: 183.666+/-0.033 χ^2/NDF : 3563503.8/39

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.036 ± 0.071 $\chi^2/\text{NDF}: 10.5/15$

Left Out: -0.446 ± 0.226 $\chi^2/\text{NDF}: 0.6/2$

Right Out: -0.094 ± 0.068 $\chi^2/\text{NDF}: 17.6/18$

Left In: 0.315 ± 0.195 $\chi^2/\text{NDF}: 4.8/1$

Left: -0.009 ± 0.148 $\chi^2/\text{NDF}: 11.9/4$

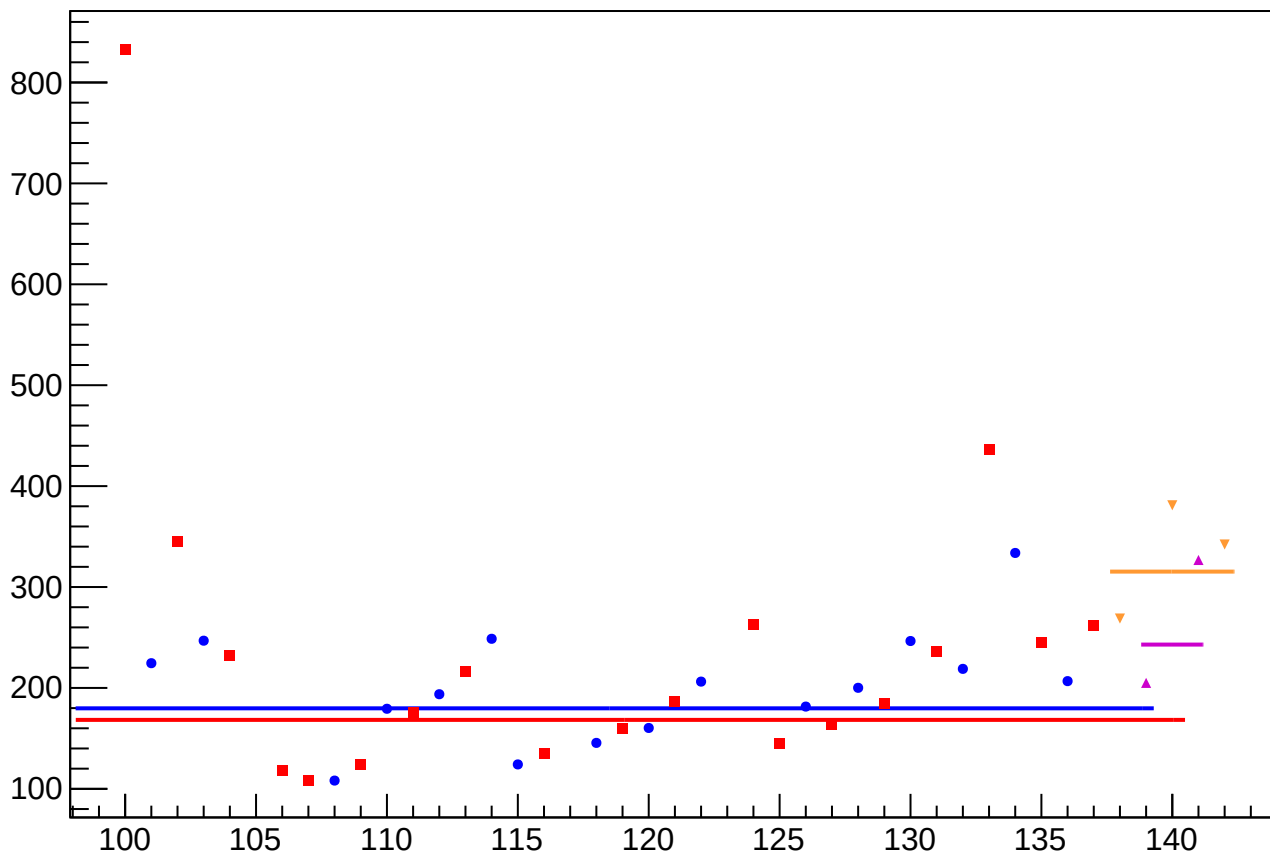
Right: -0.032 ± 0.049 $\chi^2/\text{NDF}: 29.9/34$

In: 0.068 ± 0.066 $\chi^2/\text{NDF}: 17.2/17$

Out: -0.123 ± 0.065 $\chi^2/\text{NDF}: 20.4/21$

All: -0.030 ± 0.046 $\chi^2/\text{NDF}: 41.8/39$

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 179.793+/-0.050 χ^2/NDF : 918583.7/15

Left Out: 315.279+/-0.160 χ^2/NDF : 98063.2/2

Right Out: 168.334+/-0.048 χ^2/NDF : 1409289.2/18

Left In: 242.959+/-0.138 χ^2/NDF : 167244.4/1

Left: 273.790+/-0.104 χ^2/NDF : 382525.2/4

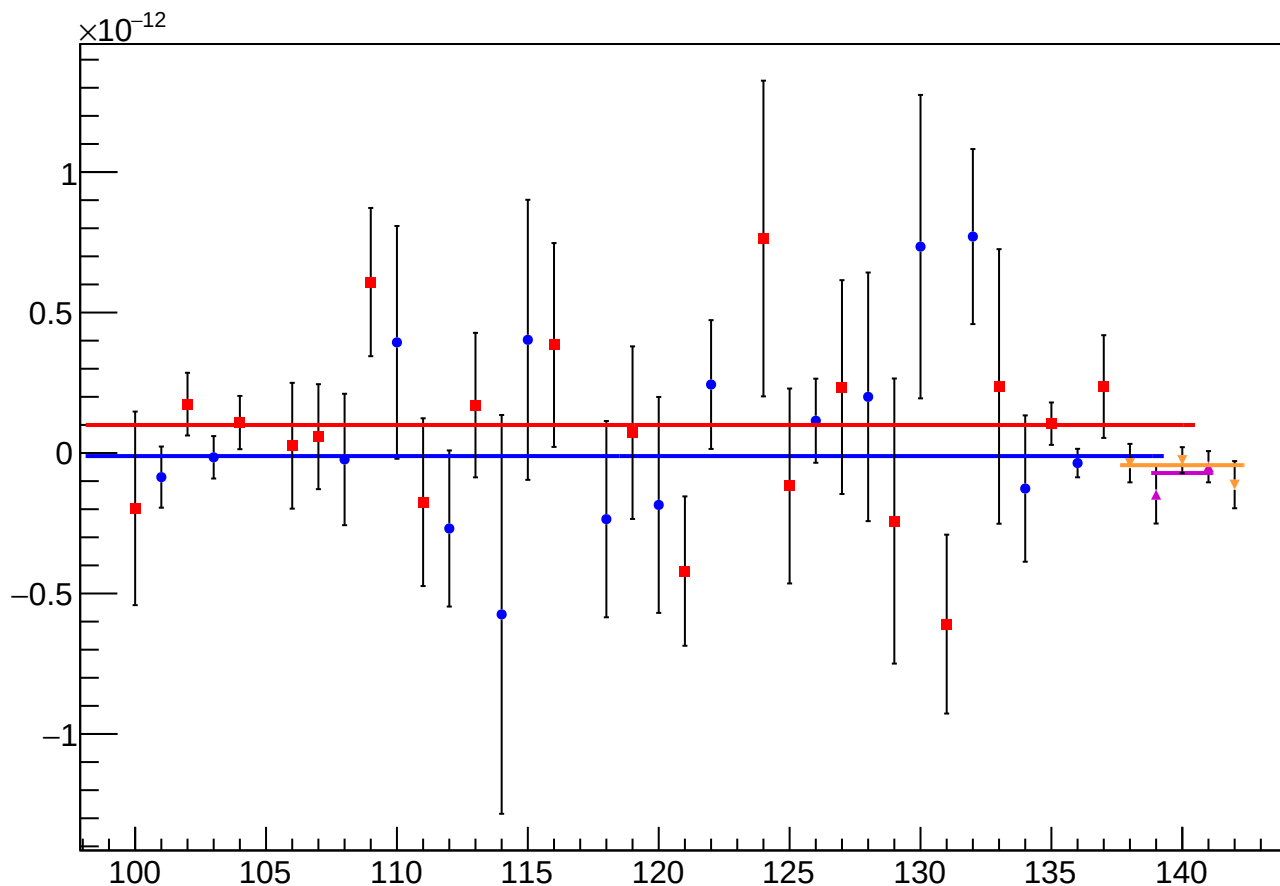
Right: 173.819+/-0.035 χ^2/NDF : 2355358.4/34

In: 187.106+/-0.047 χ^2/NDF : 1271295.5/17

Out: 180.386+/-0.046 χ^2/NDF : 2281711.3/21

All: 183.666+/-0.033 χ^2/NDF : 3563503.8/39

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 15.0/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 0.8/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 18.4/18

Left In: -0.000 ± 0.000 χ^2/NDF : 0.7/1

Left: -0.000 ± 0.000 χ^2/NDF : 1.8/4

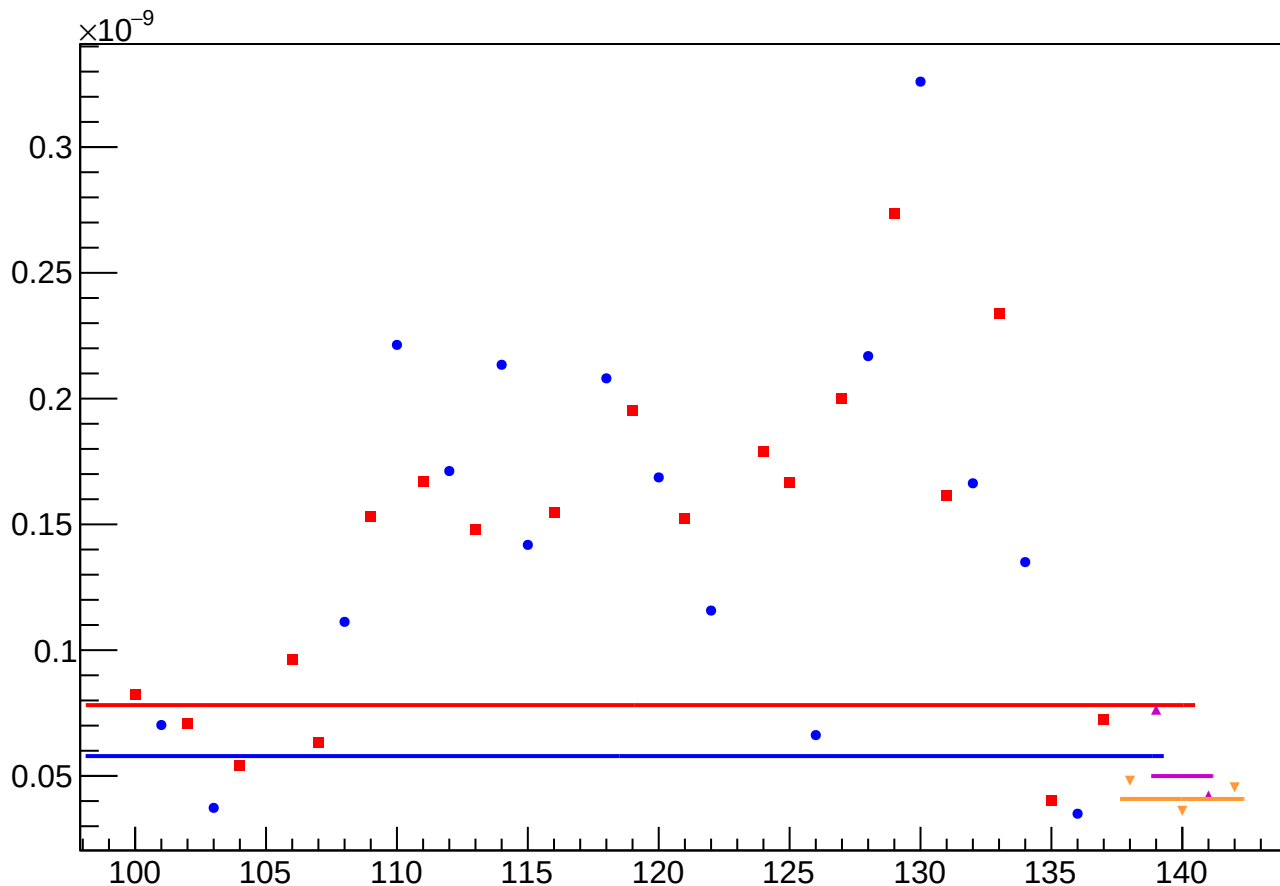
Right: 0.000 ± 0.000 χ^2/NDF : 37.5/34

In: -0.000 ± 0.000 χ^2/NDF : 16.8/17

Out: 0.000 ± 0.000 χ^2/NDF : 26.1/21

All: -0.000 ± 0.000 χ^2/NDF : 44.2/39

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3322992.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 49144.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2732134.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 170056.2/1

Left: 0.000+/-0.000 χ^2/NDF : 265034.5/4

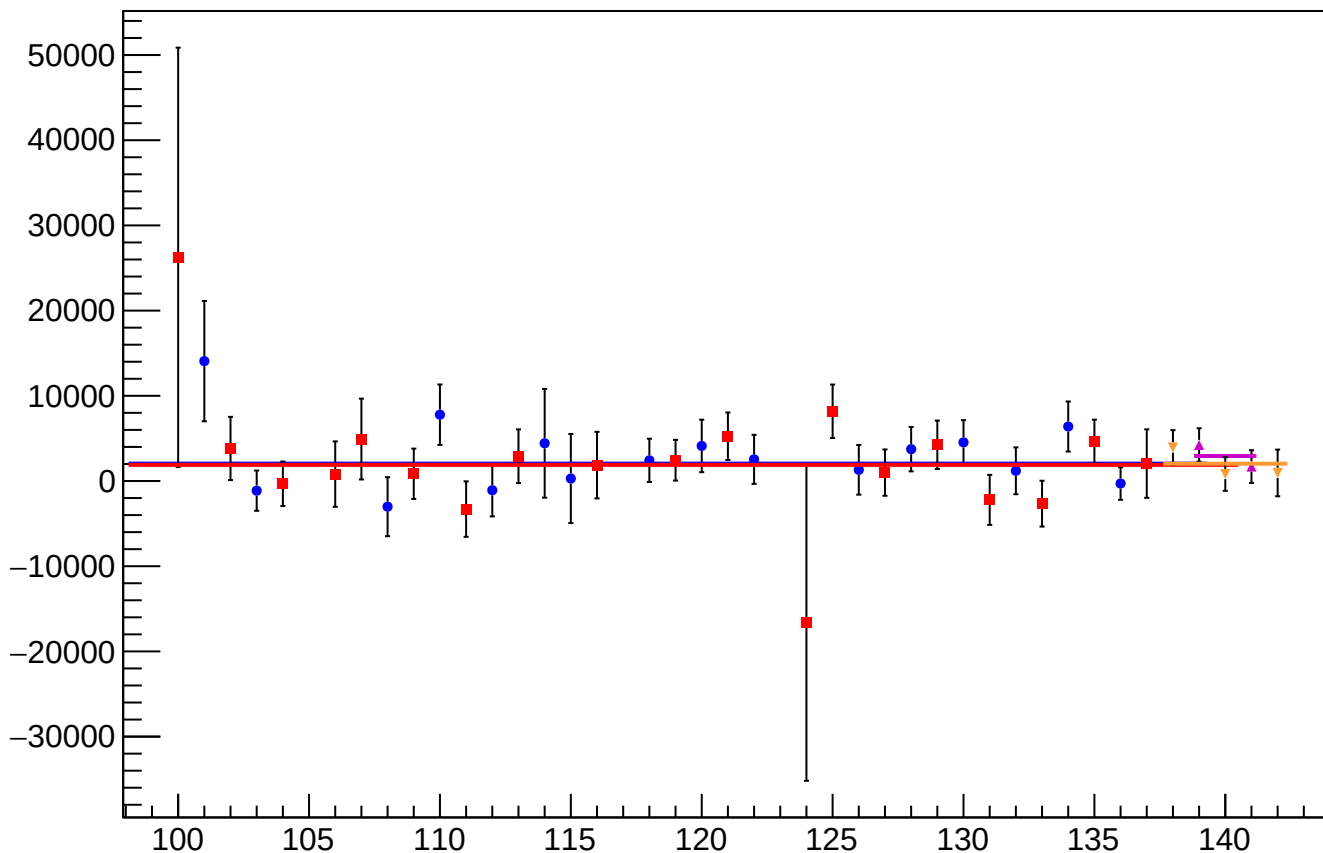
Right: 0.000+/-0.000 χ^2/NDF : 6327236.3/34

In: 0.000+/-0.000 χ^2/NDF : 3527759.0/17

Out: 0.000+/-0.000 χ^2/NDF : 3712207.9/21

All: 0.000+/-0.000 χ^2/NDF : 7240879.6/39

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2039.211+/-736.211 χ^2/NDF : 16.4/15

Left Out: 2033.120+/-1258.354 χ^2/NDF : 1.4/2

Right Out: 1895.242+/-736.762 χ^2/NDF : 18.5/18

Left In: 2935.847+/-1372.779 χ^2/NDF : 0.9/1

Left: 2445.299+/-927.610 χ^2/NDF : 2.5/4

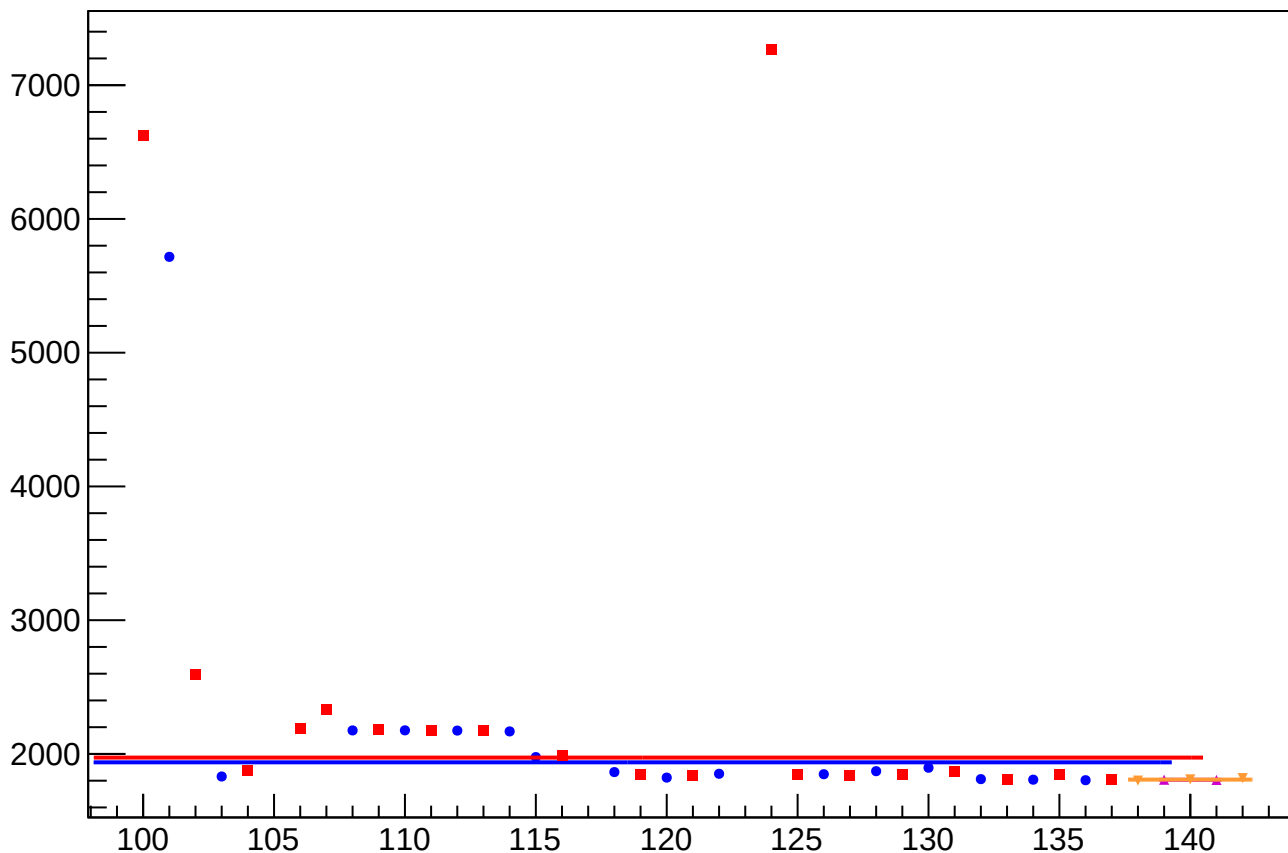
Right: 1967.281+/-520.774 χ^2/NDF : 35.0/34

In: 2239.490+/-648.799 χ^2/NDF : 17.6/17

Out: 1930.441+/-635.800 χ^2/NDF : 19.9/21

All: 2081.839+/-454.105 χ^2/NDF : 37.7/39

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1937.251+/-0.521 χ^2/NDF : 638092.5/15

Left Out: 1808.198+/-0.890 χ^2/NDF : 59.9/2

Right Out: 1972.760+/-0.521 χ^2/NDF : 377537.1/18

Left In: 1806.414+/-0.971 χ^2/NDF : 0.7/1

Left: 1807.384+/-0.656 χ^2/NDF : 62.4/4

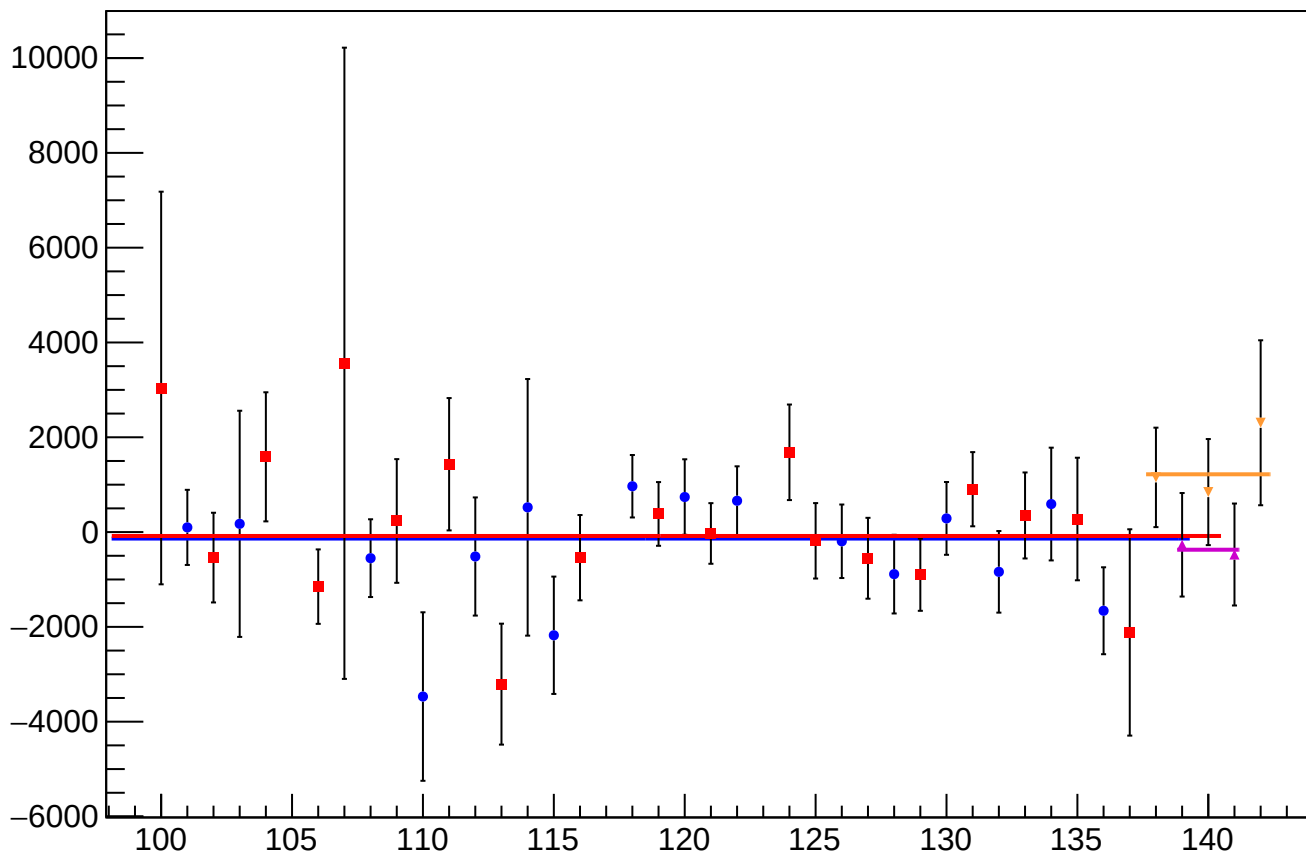
Right: 1954.992+/-0.368 χ^2/NDF : 1017954.2/34

In: 1908.027+/-0.459 χ^2/NDF : 652202.4/17

Out: 1930.749+/-0.450 χ^2/NDF : 403069.3/21

All: 1919.618+/-0.321 χ^2/NDF : 1056523.1/39

asym_at1_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -136.643+/-230.431 χ^2/NDF : 16.9/15

Left Out: 1219.110+/-700.566 χ^2/NDF : 0.5/2

Right Out: -82.296+/-222.019 χ^2/NDF : 19.7/18

Left In: -372.310+/-766.313 χ^2/NDF : 0.0/1

Left: 494.586+/-517.059 χ^2/NDF : 2.9/4

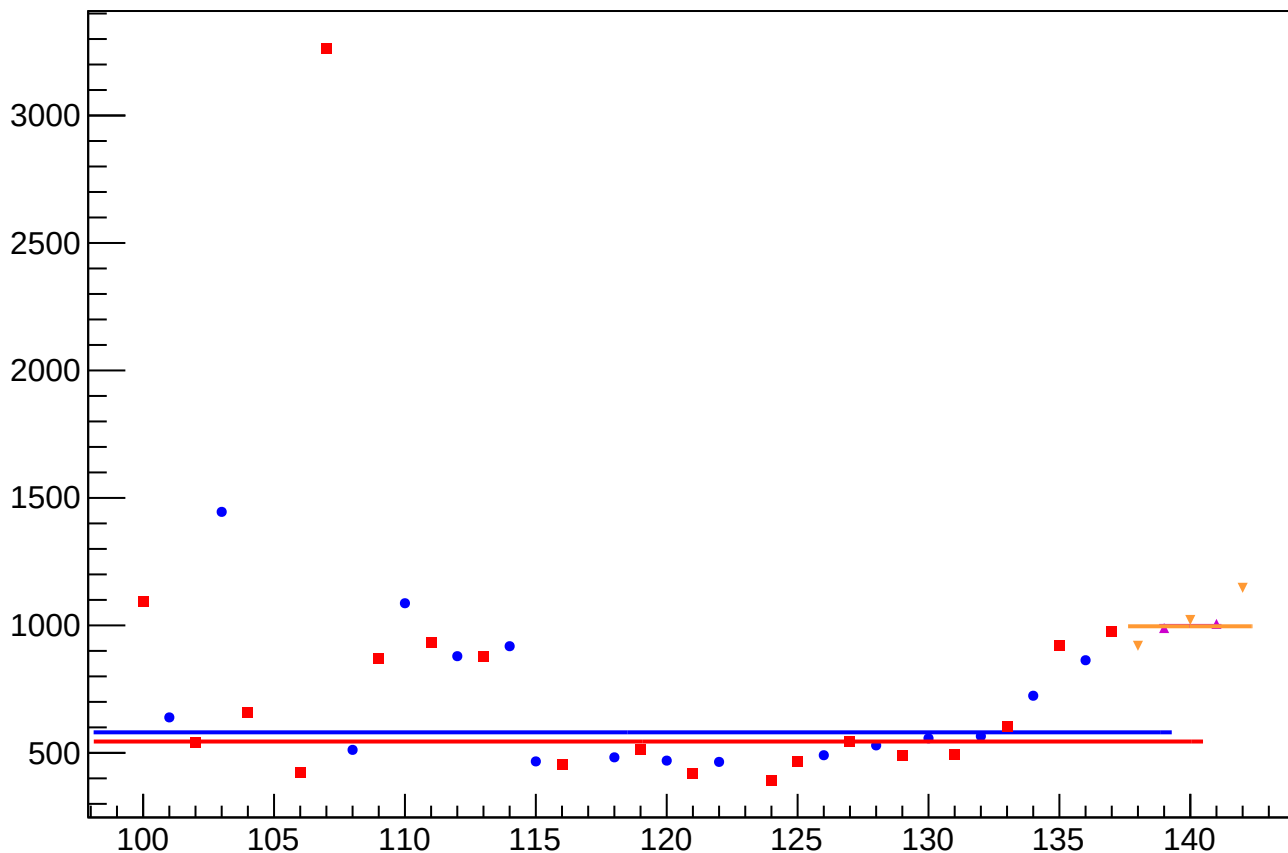
Right: -108.459+/-159.882 χ^2/NDF : 36.7/34

In: -156.185+/-220.670 χ^2/NDF : 17.0/17

Out: 36.480+/-211.645 χ^2/NDF : 23.4/21

All: -55.832+/-152.746 χ^2/NDF : 40.8/39

asym_at1_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 580.611+/-0.163 χ^2/NDF : 1003410.8/15

Left Out: 996.528+/-0.495 χ^2/NDF : 26657.6/2

Right Out: 544.530+/-0.157 χ^2/NDF : 1287643.0/18

Left In: 998.003+/-0.542 χ^2/NDF : 225.2/1

Left: 997.200+/-0.366 χ^2/NDF : 26886.9/4

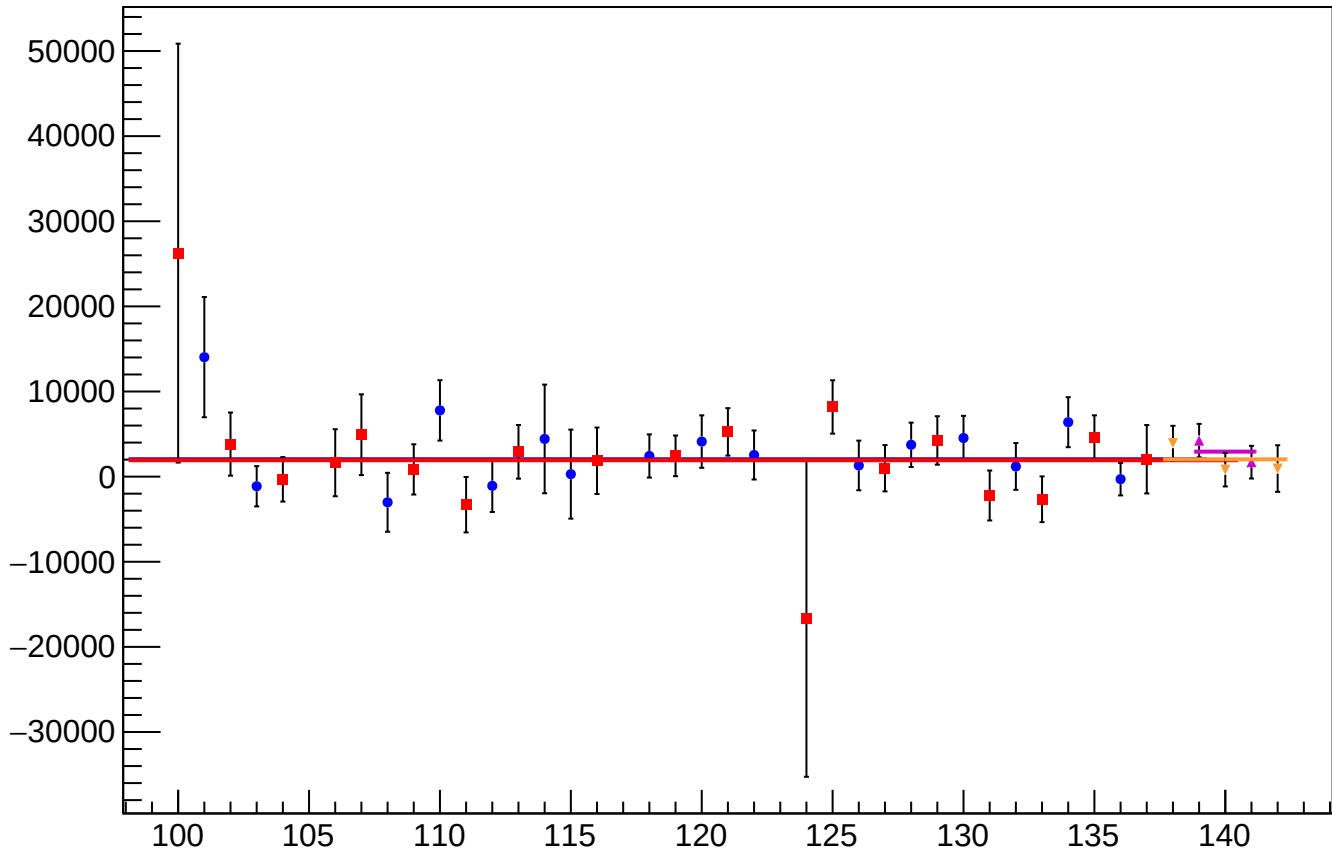
Right: 561.900+/-0.113 χ^2/NDF : 2316481.8/34

In: 615.222+/-0.156 χ^2/NDF : 1547778.0/17

Out: 585.783+/-0.150 χ^2/NDF : 2070855.6/21

All: 599.888+/-0.108 χ^2/NDF : 3637174.0/39

cor_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2038.842+/-736.211 χ^2/NDF : 16.4/15

Left Out: 2033.172+/-1258.354 χ^2/NDF : 1.4/2

Right Out: 1926.264+/-737.411 χ^2/NDF : 18.4/18

Left In: 2936.337+/-1372.779 χ^2/NDF : 0.9/1

Left: 2445.551+/-927.610 χ^2/NDF : 2.5/4

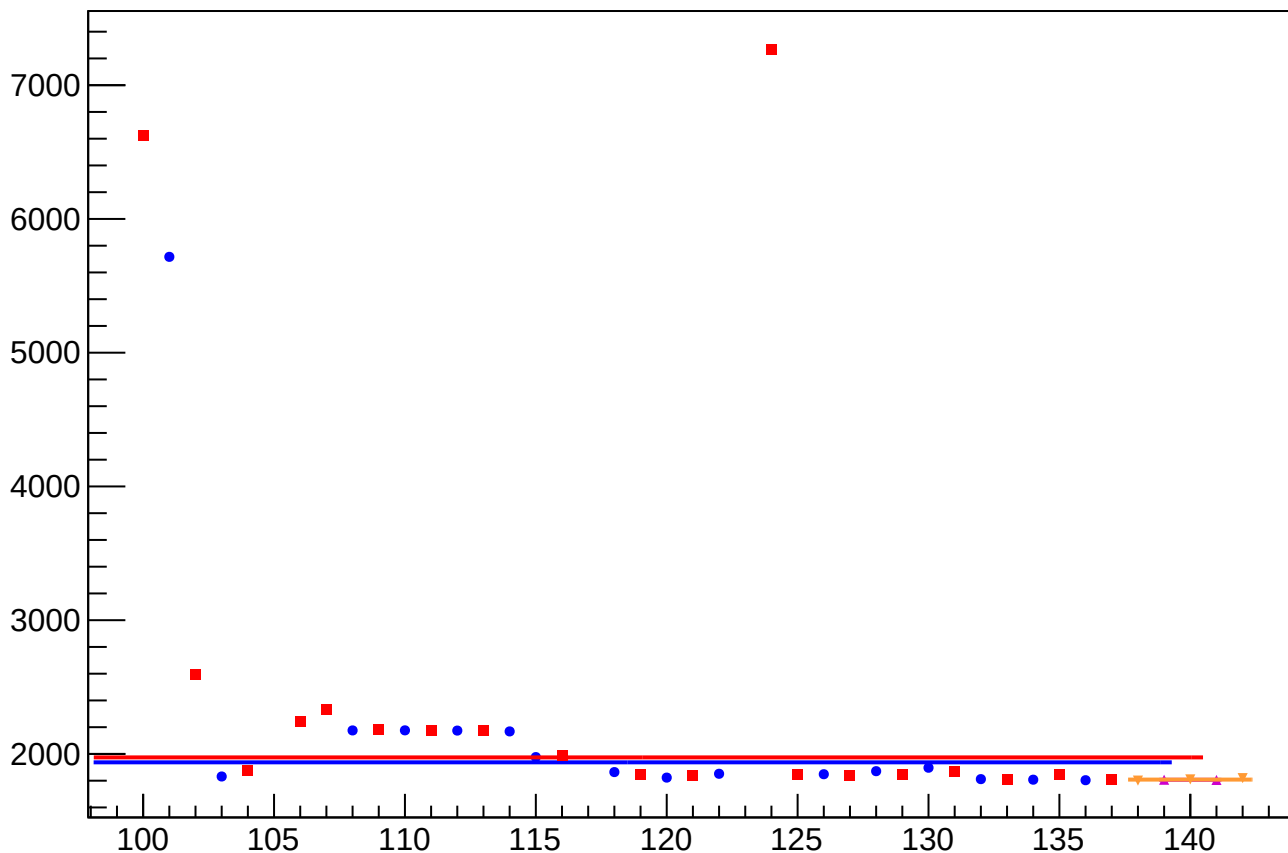
Right: 1982.645+/-521.003 χ^2/NDF : 34.9/34

In: 2239.313+/-648.799 χ^2/NDF : 17.6/17

Out: 1953.592+/-636.217 χ^2/NDF : 19.8/21

All: 2093.655+/-454.256 χ^2/NDF : 37.6/39

cor_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1937.251+/-0.521 χ^2/NDF : 638092.5/15

Left Out: 1808.198+/-0.890 χ^2/NDF : 59.9/2

Right Out: 1974.155+/-0.521 χ^2/NDF : 380430.7/18

Left In: 1806.415+/-0.971 χ^2/NDF : 0.7/1

Left: 1807.384+/-0.656 χ^2/NDF : 62.4/4

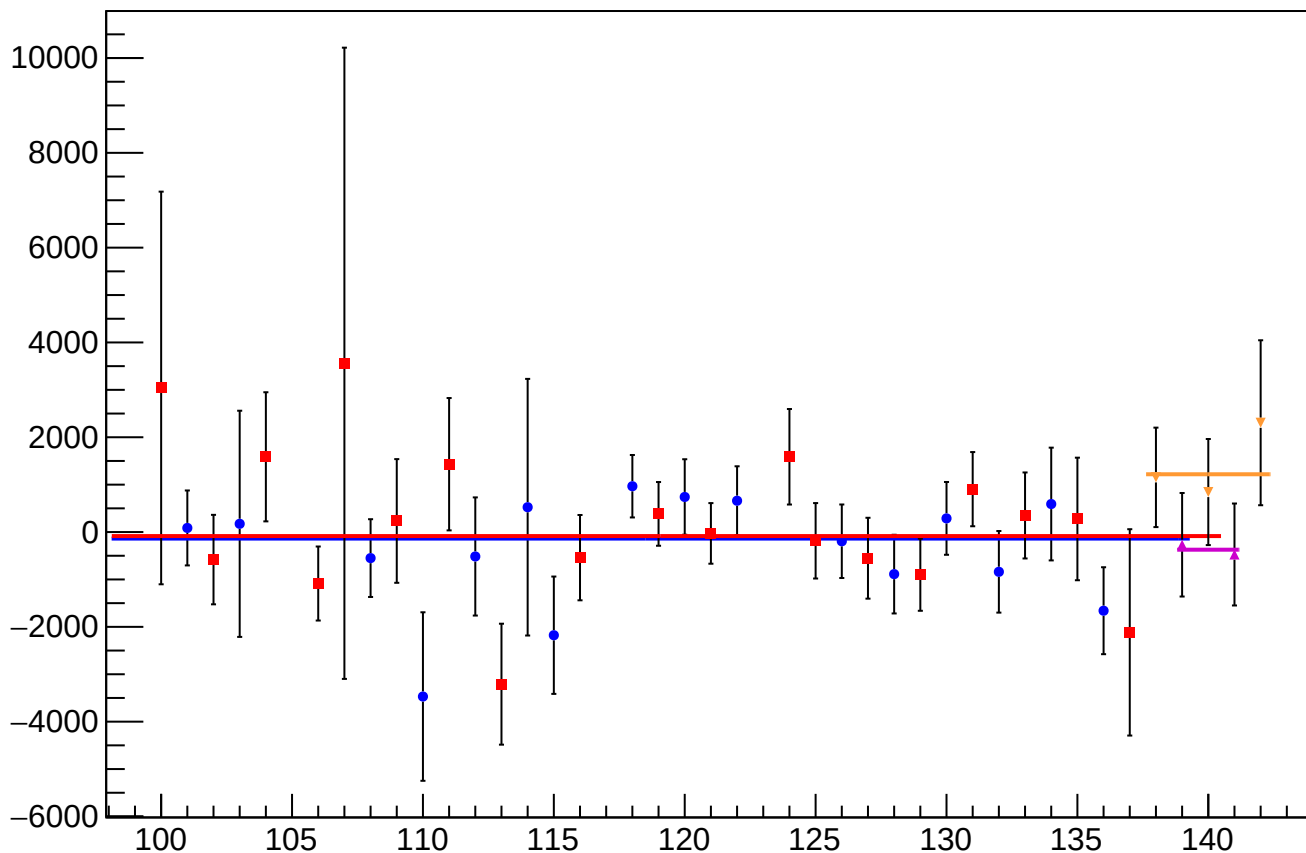
Right: 1955.673+/-0.368 χ^2/NDF : 1021031.8/34

In: 1908.026+/-0.459 χ^2/NDF : 652202.4/17

Out: 1931.732+/-0.450 χ^2/NDF : 406384.9/21

All: 1920.111+/-0.321 χ^2/NDF : 1059948.4/39

asym_at1_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -137.491+/-230.382 χ^2/NDF : 16.9/15

Left Out: 1219.098+/-700.564 χ^2/NDF : 0.5/2

Right Out: -84.947+/-221.881 χ^2/NDF : 19.3/18

Left In: -372.359+/-766.319 χ^2/NDF : 0.0/1

Left: 494.566+/-517.060 χ^2/NDF : 2.9/4

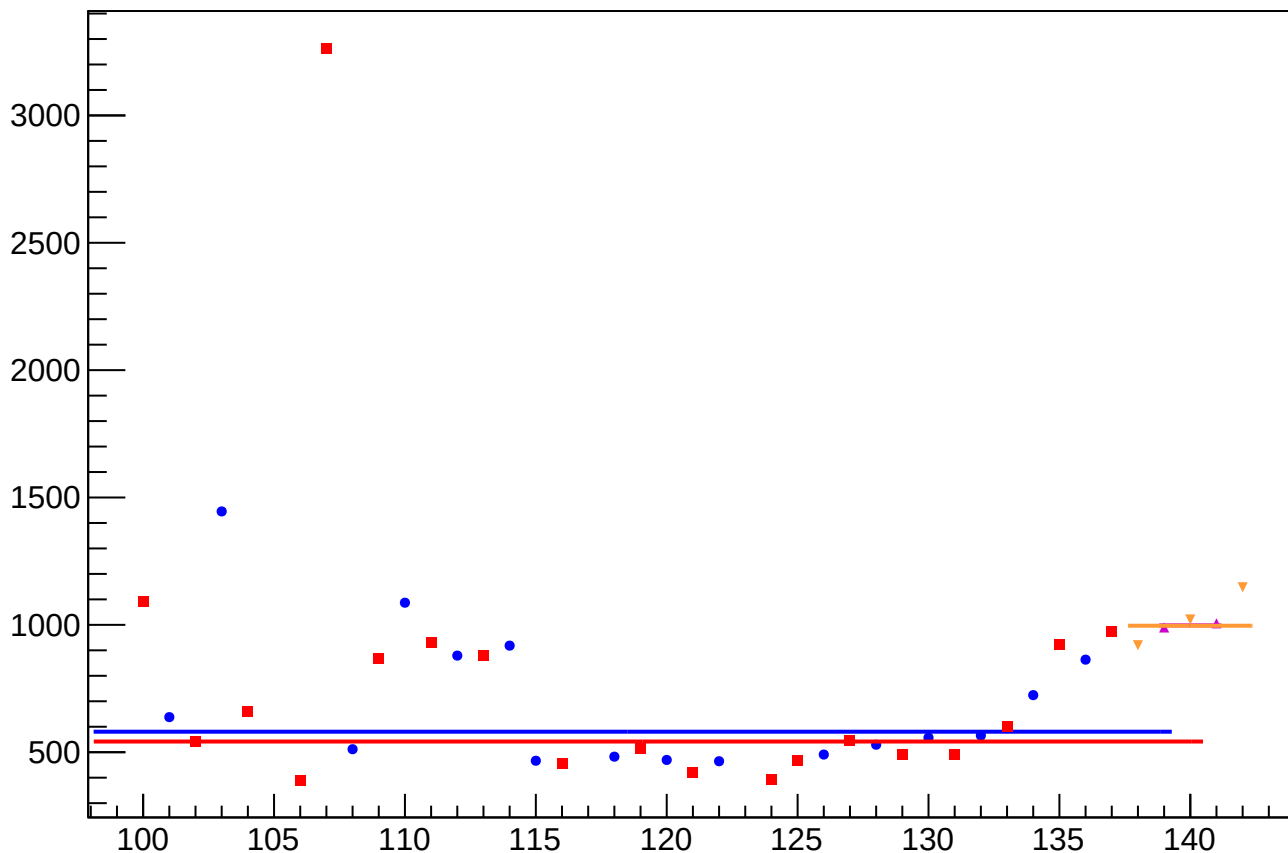
Right: -110.232+/-159.814 χ^2/NDF : 36.2/34

In: -156.959+/-220.627 χ^2/NDF : 17.0/17

Out: 33.936+/-211.525 χ^2/NDF : 22.9/21

All: -57.492+/-152.687 χ^2/NDF : 40.3/39

asym_at1_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 580.519+/-0.163 χ^2/NDF : 1002900.5/15

Left Out: 996.524+/-0.495 χ^2/NDF : 26654.3/2

Right Out: 541.939+/-0.157 χ^2/NDF : 1318850.5/18

Left In: 998.009+/-0.542 χ^2/NDF : 224.7/1

Left: 997.200+/-0.366 χ^2/NDF : 26883.1/4

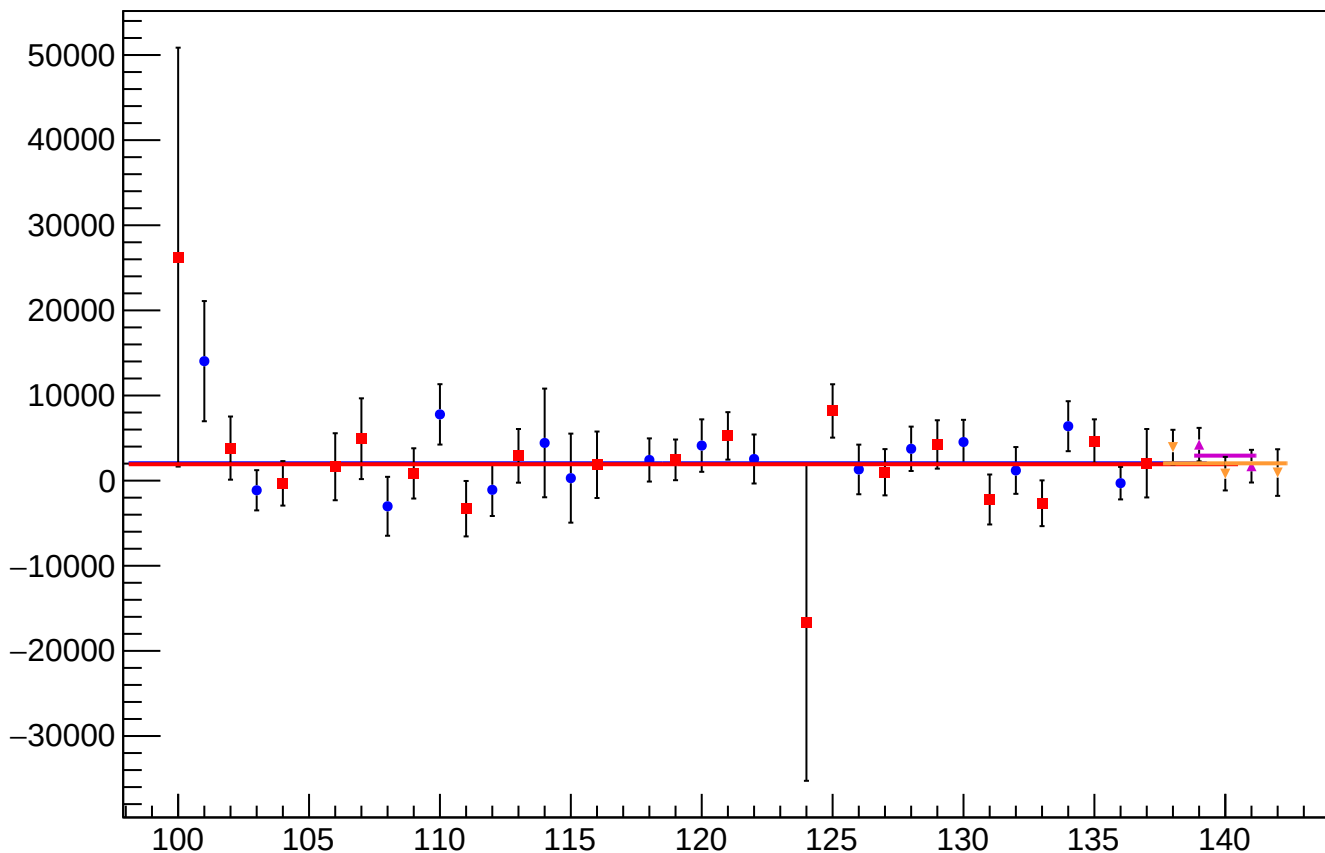
Right: 560.504+/-0.113 χ^2/NDF : 2350848.1/34

In: 615.124+/-0.156 χ^2/NDF : 1547534.6/17

Out: 583.381+/-0.150 χ^2/NDF : 2110836.4/21

All: 598.584+/-0.108 χ^2/NDF : 3679943.3/39

eigen_cor_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2038.842+/-736.211 χ^2/NDF : 16.4/15

Left Out: 2033.172+/-1258.354 χ^2/NDF : 1.4/2

Right Out: 1926.264+/-737.411 χ^2/NDF : 18.4/18

Left In: 2936.337+/-1372.779 χ^2/NDF : 0.9/1

Left: 2445.551+/-927.610 χ^2/NDF : 2.5/4

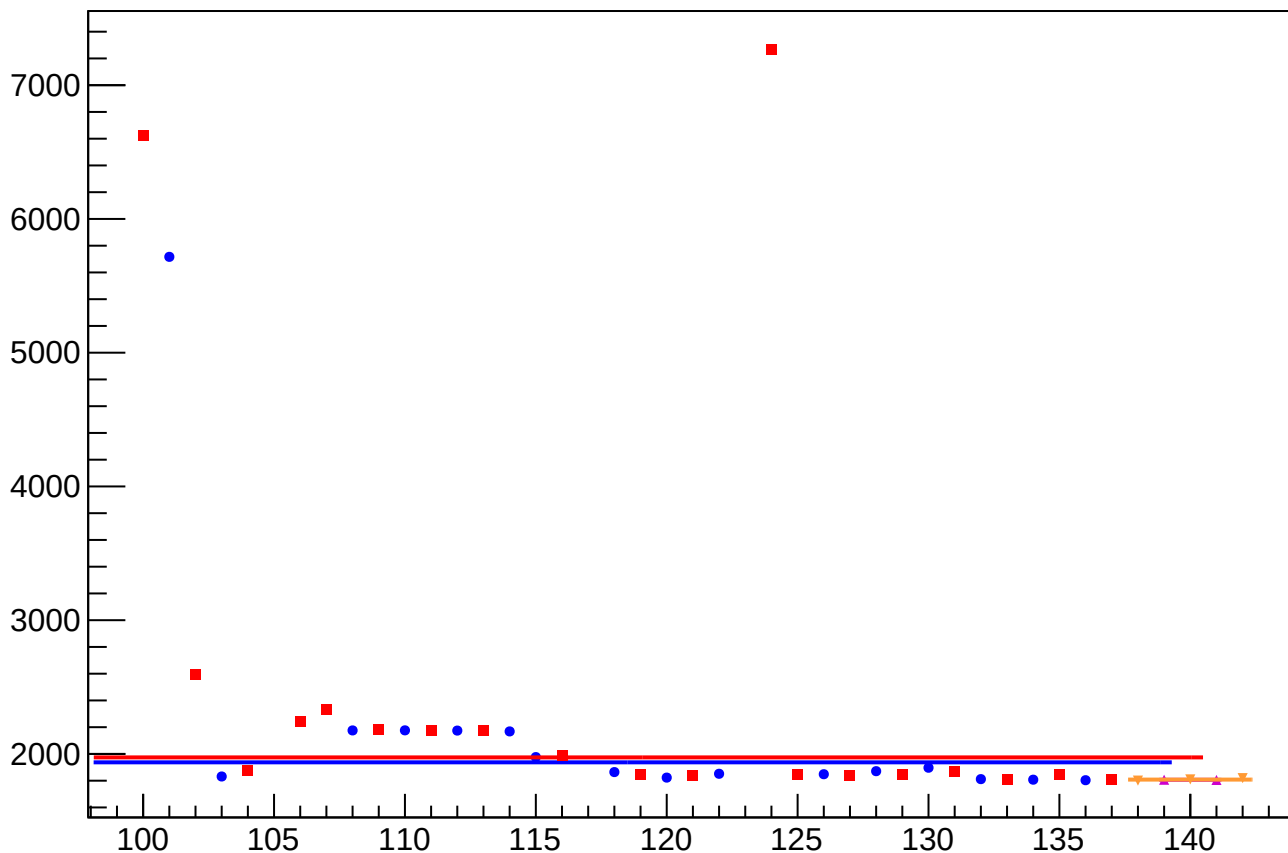
Right: 1982.645+/-521.003 χ^2/NDF : 34.9/34

In: 2239.313+/-648.799 χ^2/NDF : 17.6/17

Out: 1953.592+/-636.217 χ^2/NDF : 19.8/21

All: 2093.655+/-454.256 χ^2/NDF : 37.6/39

eigen_cor_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1937.251+/-0.521 χ^2/NDF : 638092.5/15

Left Out: 1808.198+/-0.890 χ^2/NDF : 59.9/2

Right Out: 1974.155+/-0.521 χ^2/NDF : 380430.7/18

Left In: 1806.415+/-0.971 χ^2/NDF : 0.7/1

Left: 1807.384+/-0.656 χ^2/NDF : 62.4/4

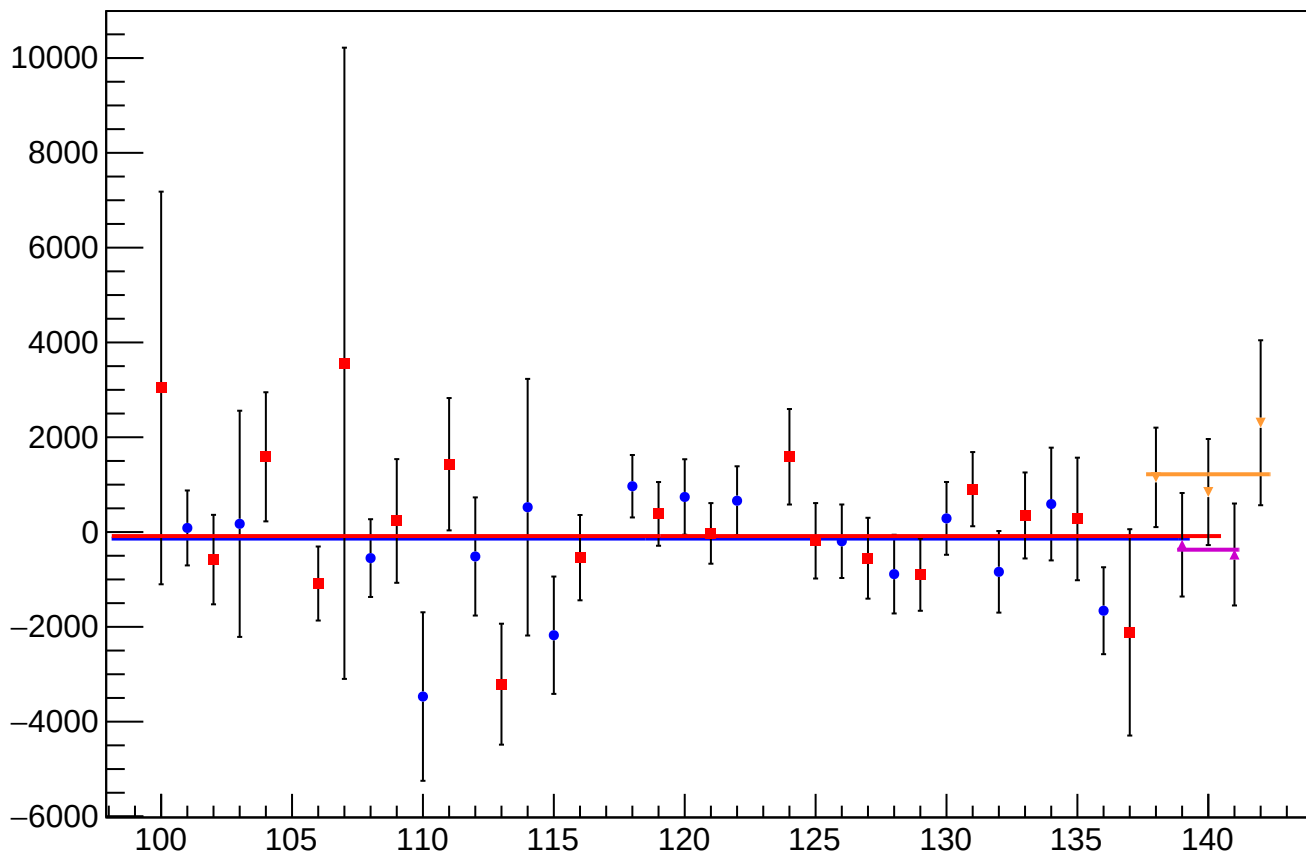
Right: 1955.673+/-0.368 χ^2/NDF : 1021031.8/34

In: 1908.026+/-0.459 χ^2/NDF : 652202.4/17

Out: 1931.732+/-0.450 χ^2/NDF : 406384.9/21

All: 1920.111+/-0.321 χ^2/NDF : 1059948.4/39

asym_at1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -137.491+/-230.382 χ^2/NDF : 16.9/15

Left Out: 1219.098+/-700.564 χ^2/NDF : 0.5/2

Right Out: -84.947+/-221.881 χ^2/NDF : 19.3/18

Left In: -372.359+/-766.319 χ^2/NDF : 0.0/1

Left: 494.566+/-517.060 χ^2/NDF : 2.9/4

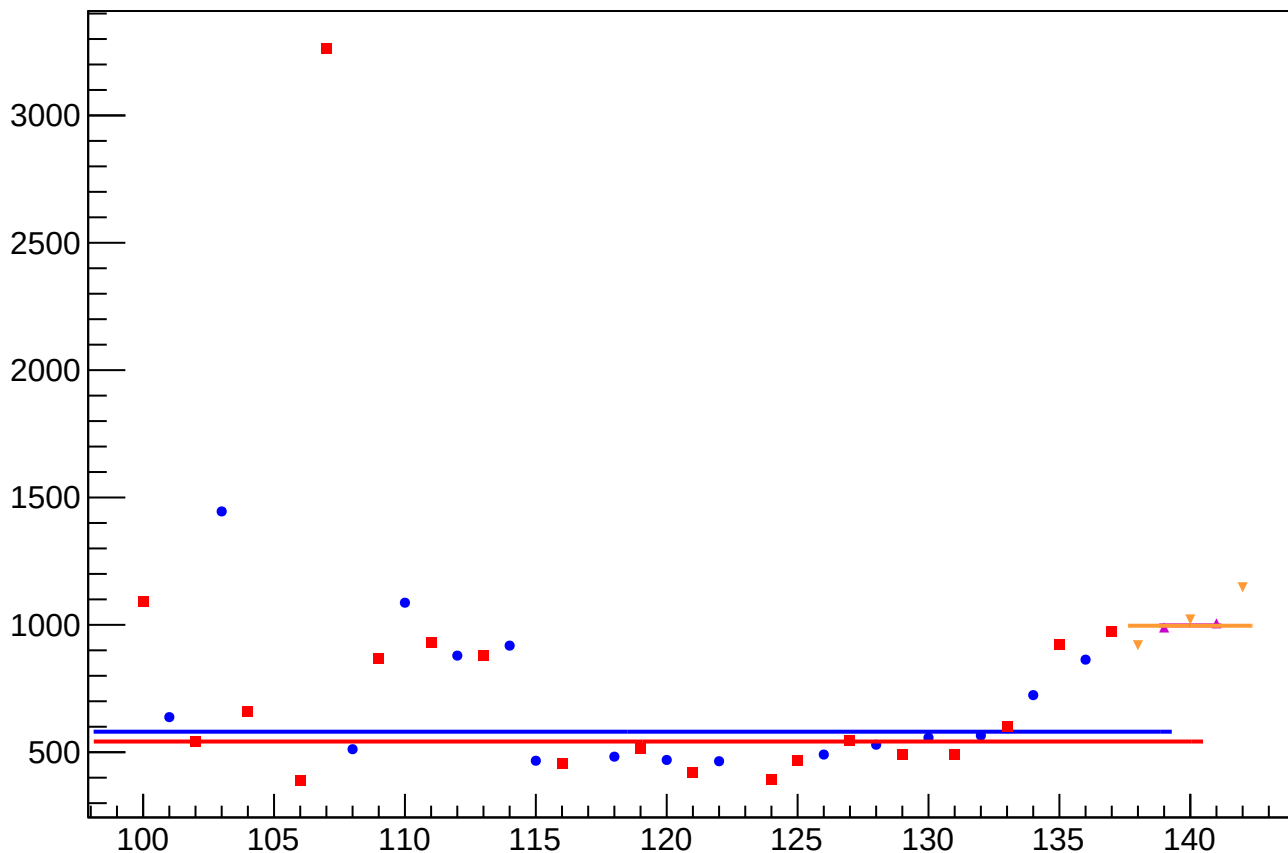
Right: -110.232+/-159.814 χ^2/NDF : 36.2/34

In: -156.959+/-220.627 χ^2/NDF : 17.0/17

Out: 33.936+/-211.525 χ^2/NDF : 22.9/21

All: -57.492+/-152.687 χ^2/NDF : 40.3/39

asym_at1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 580.519 $\pm$ 0.163 χ^2 /NDF: 1002900.5/15

Left Out: 996.524 $\pm$ 0.495 χ^2 /NDF:26654.3/2

Right Out: 541.939 $\pm$ 0.157 χ^2 /NDF: 1318850.5/18

Left In: 998.009 $\pm$ 0.542 χ^2 /NDF:224.7/1

Left: 997.200 $\pm$ 0.366 χ^2 /NDF: 26883.1/4

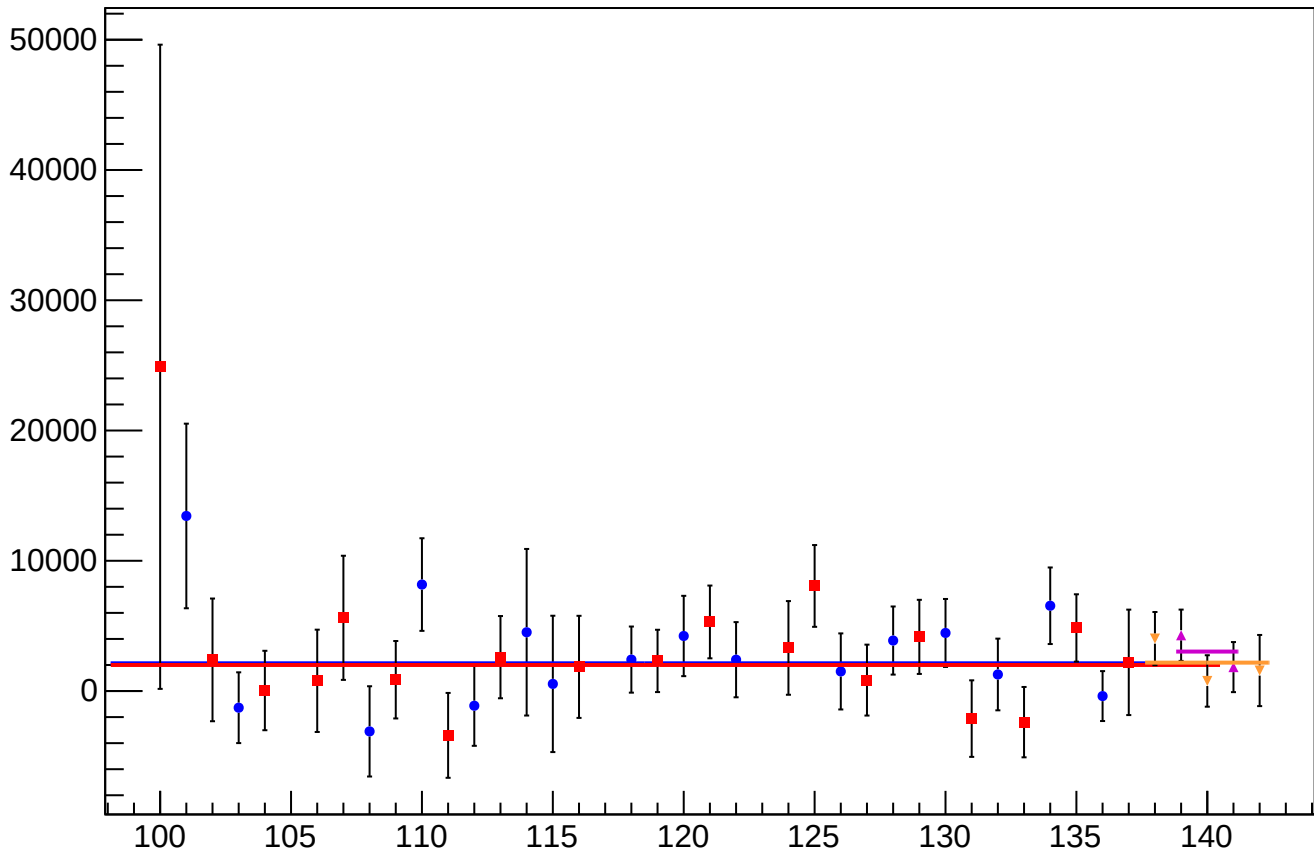
Right: 560.504 $\pm$ 0.113 χ^2 /NDF: 2350848.1/34

In: 615.124 $\pm$ 0.156 χ^2 /NDF:1547534.6/17

Out: 583.381 $\pm$ 0.150 χ^2 /NDF:2110836.4/21

All: 598.584 $\pm$ 0.108 χ^2 /NDF: 3679943.3/39

dit_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2128.748 $\pm$ 746.242 χ^2 /NDF: 16.5/15

Left Out: 2181.129 $\pm$ 1259.876 χ^2 /NDF: 1.4/2

Right Out: 2002.220 $\pm$ 737.195 χ^2 /NDF: 16.7/18

Left In: 3030.413 $\pm$ 1375.592 χ^2 /NDF: 0.8/1

Left: 2568.553 $\pm$ 929.087 χ^2 /NDF: 2.4/4

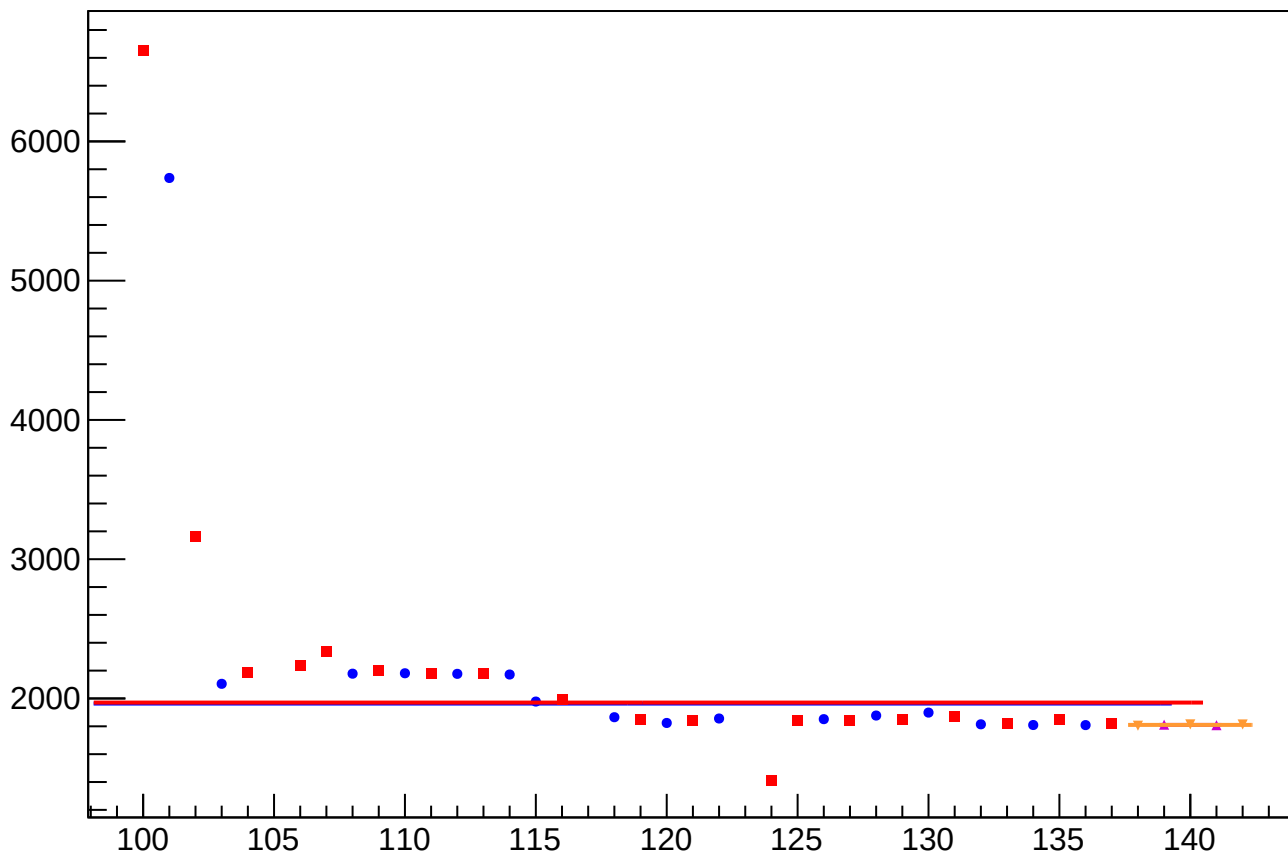
Right: 2064.712 $\pm$ 524.445 χ^2 /NDF: 33.3/34

In: 2333.767 $\pm$ 655.939 χ^2 /NDF: 17.6/17

Out: 2047.851 $\pm$ 636.274 χ^2 /NDF: 18.1/21

All: 2186.459 $\pm$ 456.708 χ^2 /NDF: 35.8/39

dit_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1963.415+/-0.528 χ^2/NDF : 640254.1/15

Left Out: 1810.124+/-0.891 χ^2/NDF :26.3/2

Right Out: 1970.459+/-0.521 χ^2/NDF : 345133.0/18

Left In: 1809.974+/-0.973 χ^2/NDF :3.5/1

Left: 1810.055+/-0.657 χ^2/NDF : 29.8/4

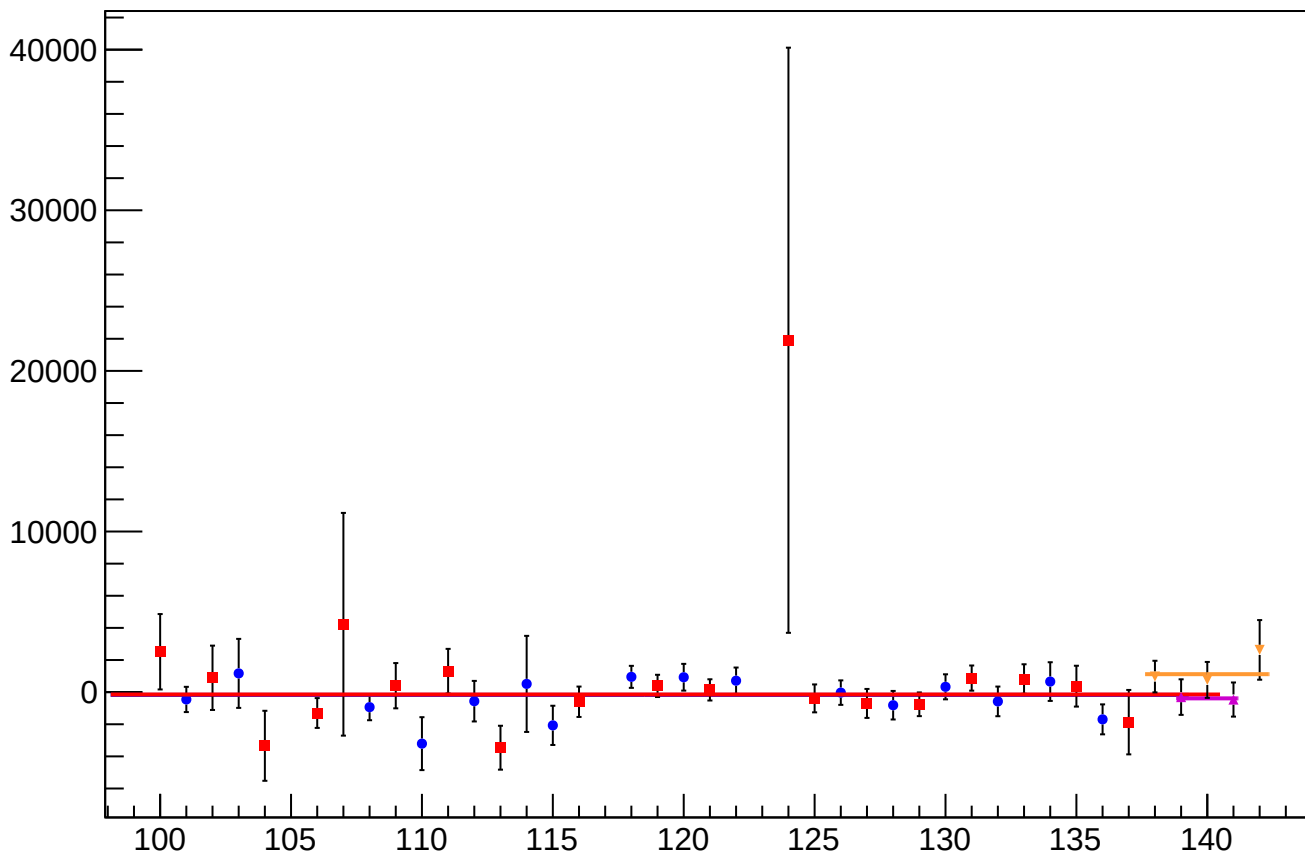
Right: 1966.980+/-0.371 χ^2/NDF : 985477.3/34

In: 1928.526+/-0.464 χ^2/NDF :659484.2/17

Out: 1929.565+/-0.450 χ^2/NDF :369289.3/21

All: 1929.061+/-0.323 χ^2/NDF : 1028776.0/39

asym_at1_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -170.774+/-236.912 χ^2/NDF : 17.2/15

Left Out: 1118.266+/-686.157 χ^2/NDF : 0.8/2

Right Out: -147.489+/-242.848 χ^2/NDF : 20.1/18

Left In: -388.220+/-766.579 χ^2/NDF : 0.0/1

Left: 448.165+/-511.263 χ^2/NDF : 2.9/4

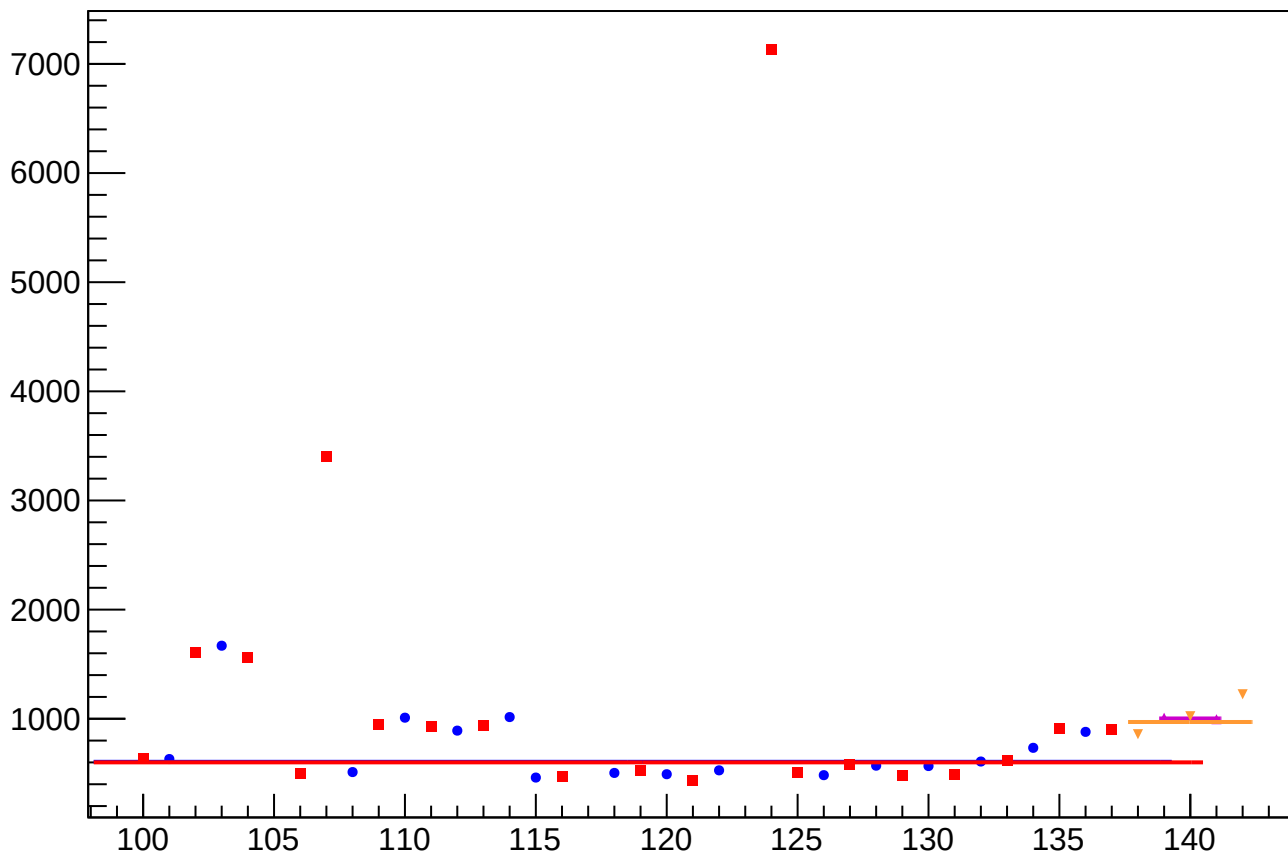
Right: -159.420+/-169.582 χ^2/NDF : 37.3/34

In: -189.732+/-226.349 χ^2/NDF : 17.3/17

Out: -6.588+/-228.932 χ^2/NDF : 23.9/21

All: -99.199+/-160.958 χ^2/NDF : 41.6/39

asym_at1_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 605.430+/-0.168 χ^2/NDF : 1162454.5/15

Left Out: 970.365+/-0.485 χ^2/NDF : 67837.1/2

Right Out: 600.447+/-0.172 χ^2/NDF : 2328523.8/18

Left In: 1002.556+/-0.542 χ^2/NDF : 160.9/1

Left: 984.684+/-0.362 χ^2/NDF : 69956.0/4

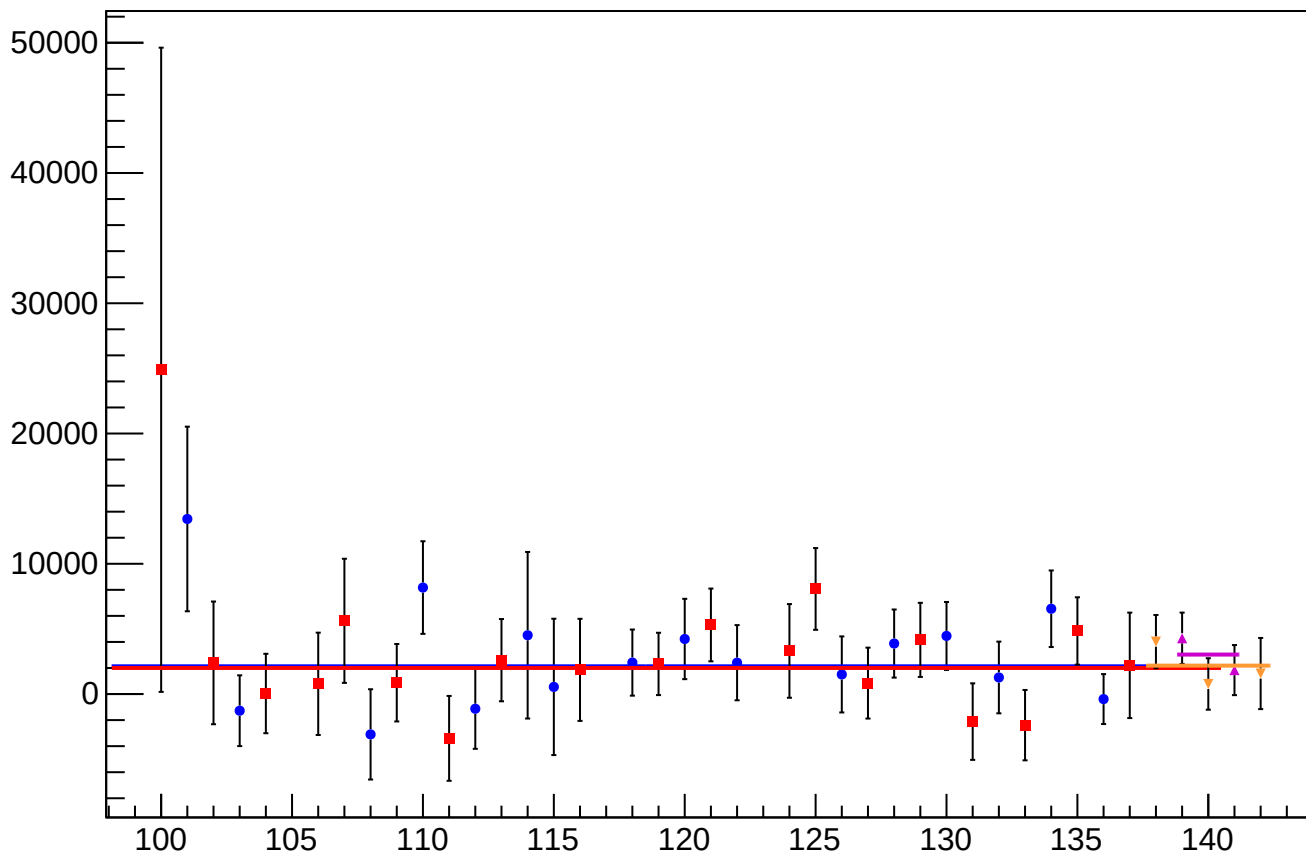
Right: 603.000+/-0.120 χ^2/NDF : 3491409.7/34

In: 640.053+/-0.160 χ^2/NDF : 1652570.8/17

Out: 641.625+/-0.162 χ^2/NDF : 2912944.5/21

All: 640.830+/-0.114 χ^2/NDF : 4565563.0/39

eigen_dit_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2128.746+/-746.242 χ^2/NDF : 16.5/15

Left Out: 2181.132+/-1259.876 χ^2/NDF : 1.4/2

Right Out: 2002.218+/-737.195 χ^2/NDF : 16.7/18

Left In: 3030.412+/-1375.592 χ^2/NDF : 0.8/1

Left: 2568.554+/-929.087 χ^2/NDF : 2.4/4

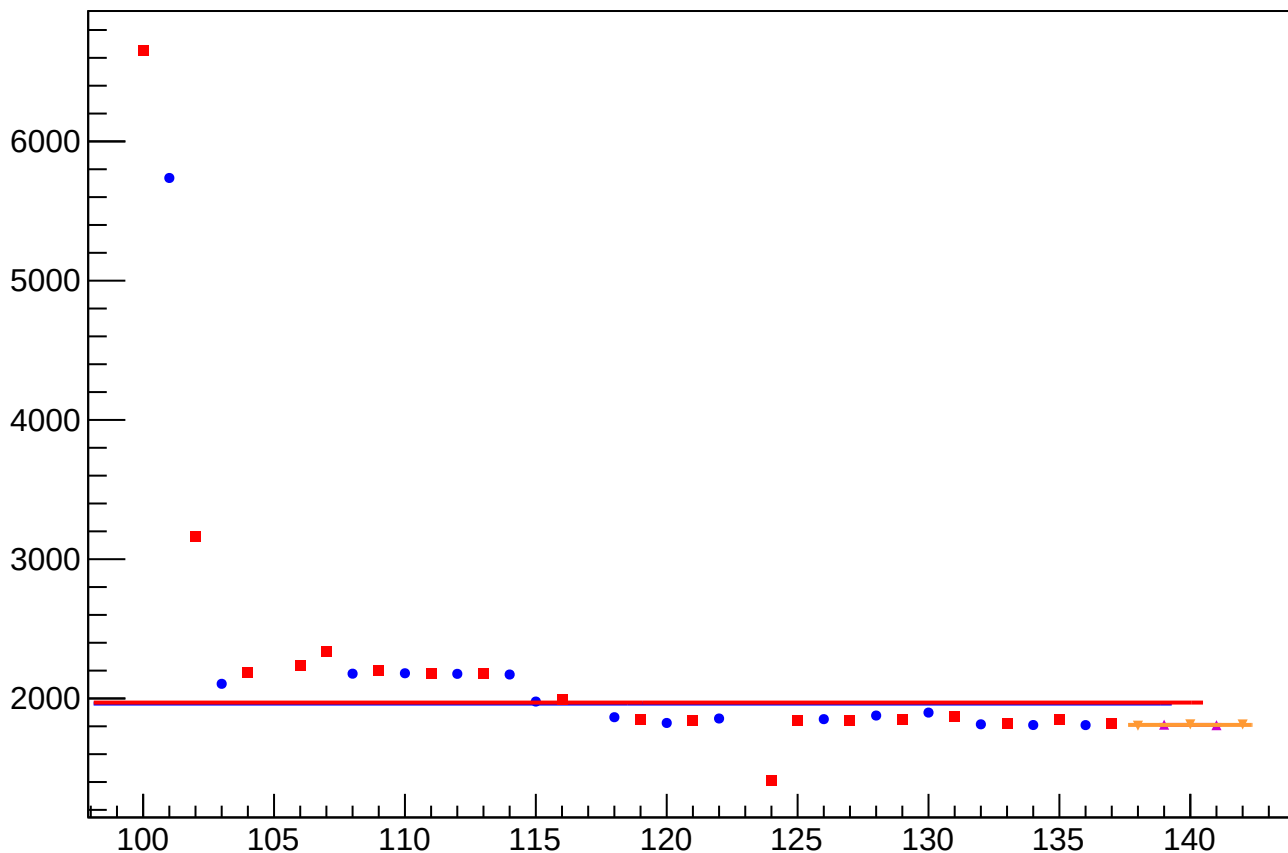
Right: 2064.710+/-524.445 χ^2/NDF : 33.3/34

In: 2333.765+/-655.939 χ^2/NDF : 17.6/17

Out: 2047.851+/-636.274 χ^2/NDF : 18.1/21

All: 2186.458+/-456.708 χ^2/NDF : 35.8/39

eigen_dit_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1963.415+/-0.528 χ^2/NDF : 640253.8/15

Left Out: 1810.124+/-0.891 χ^2/NDF :26.3/2

Right Out: 1970.459+/-0.521 χ^2/NDF : 345131.7/18

Left In: 1809.974+/-0.973 χ^2/NDF :3.5/1

Left: 1810.055+/-0.657 χ^2/NDF : 29.8/4

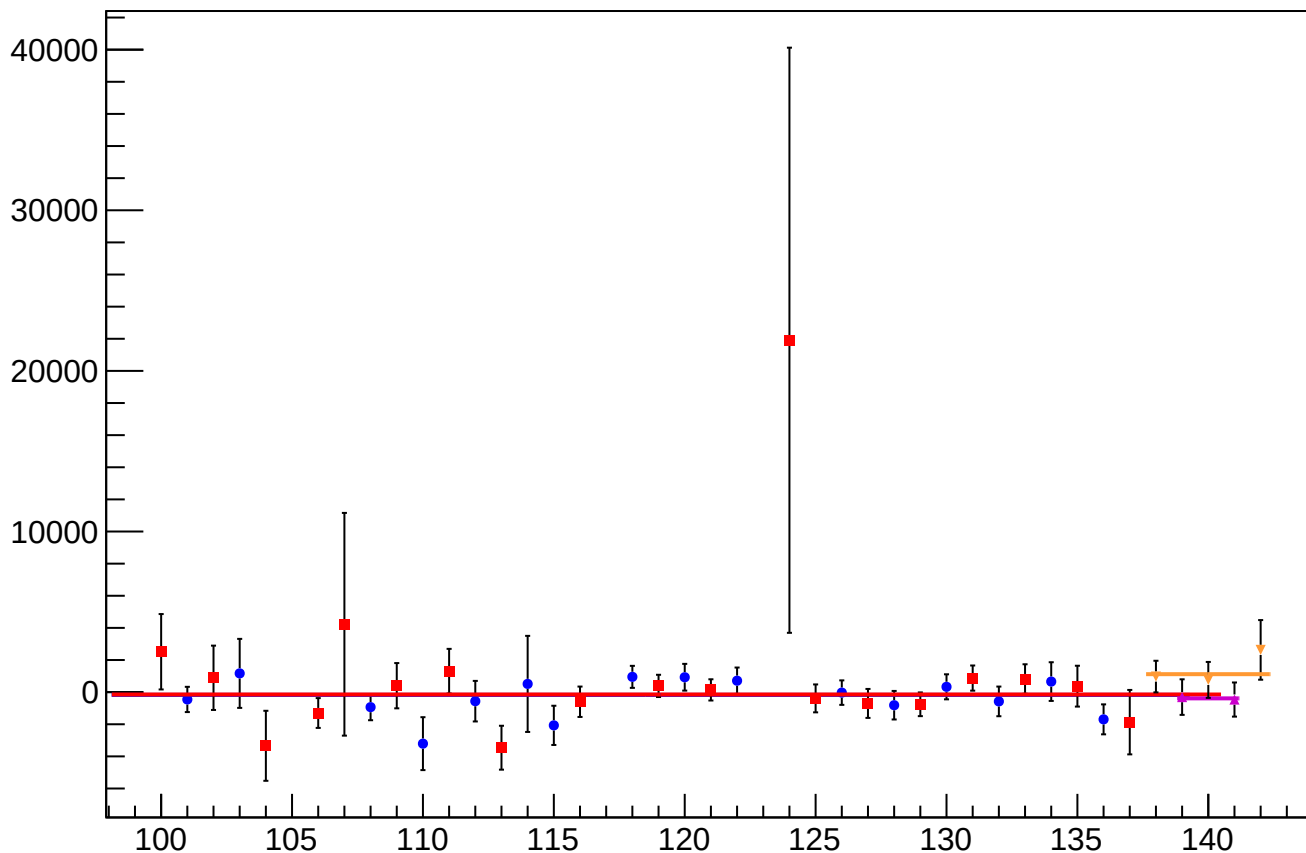
Right: 1966.980+/-0.371 χ^2/NDF : 985475.7/34

In: 1928.526+/-0.464 χ^2/NDF :659483.8/17

Out: 1929.565+/-0.450 χ^2/NDF :369287.9/21

All: 1929.061+/-0.323 χ^2/NDF : 1028774.4/39

asym_at1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -170.773+/-236.912 χ^2/NDF : 17.2/15

Left Out: 1118.268+/-686.158 χ^2/NDF : 0.8/2

Right Out: -147.489+/-242.847 χ^2/NDF : 20.1/18

Left In: -388.222+/-766.579 χ^2/NDF : 0.0/1

Left: 448.166+/-511.263 χ^2/NDF : 2.9/4

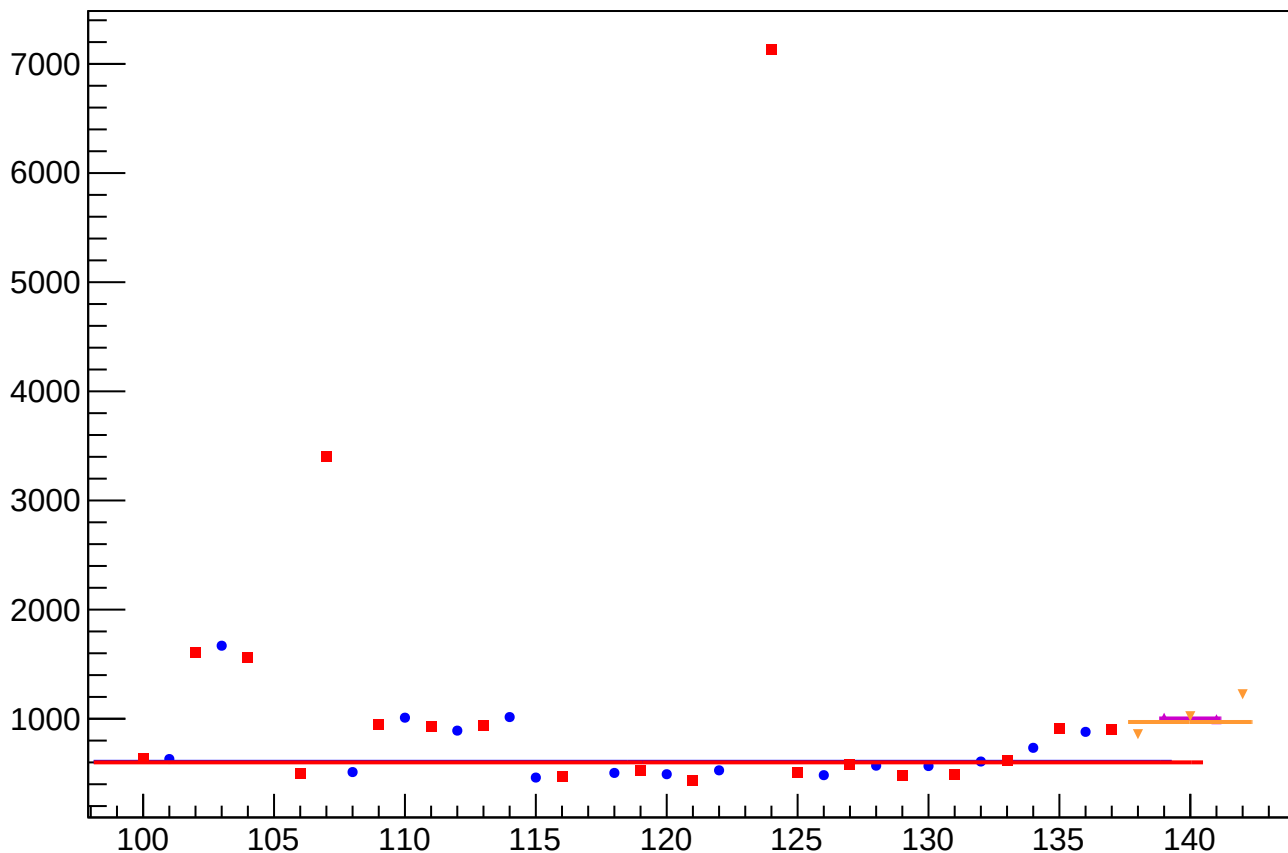
Right: -159.419+/-169.581 χ^2/NDF : 37.3/34

In: -189.731+/-226.349 χ^2/NDF : 17.3/17

Out: -6.587+/-228.932 χ^2/NDF : 23.9/21

All: -99.198+/-160.958 χ^2/NDF : 41.6/39

asym_at1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 605.429+/-0.168 χ^2/NDF : 1162462.4/15

Left Out: 970.366+/-0.485 χ^2/NDF : 67837.7/2

Right Out: 600.446+/-0.172 χ^2/NDF : 2328531.9/18

Left In: 1002.557+/-0.542 χ^2/NDF : 160.9/1

Left: 984.685+/-0.362 χ^2/NDF : 69956.6/4

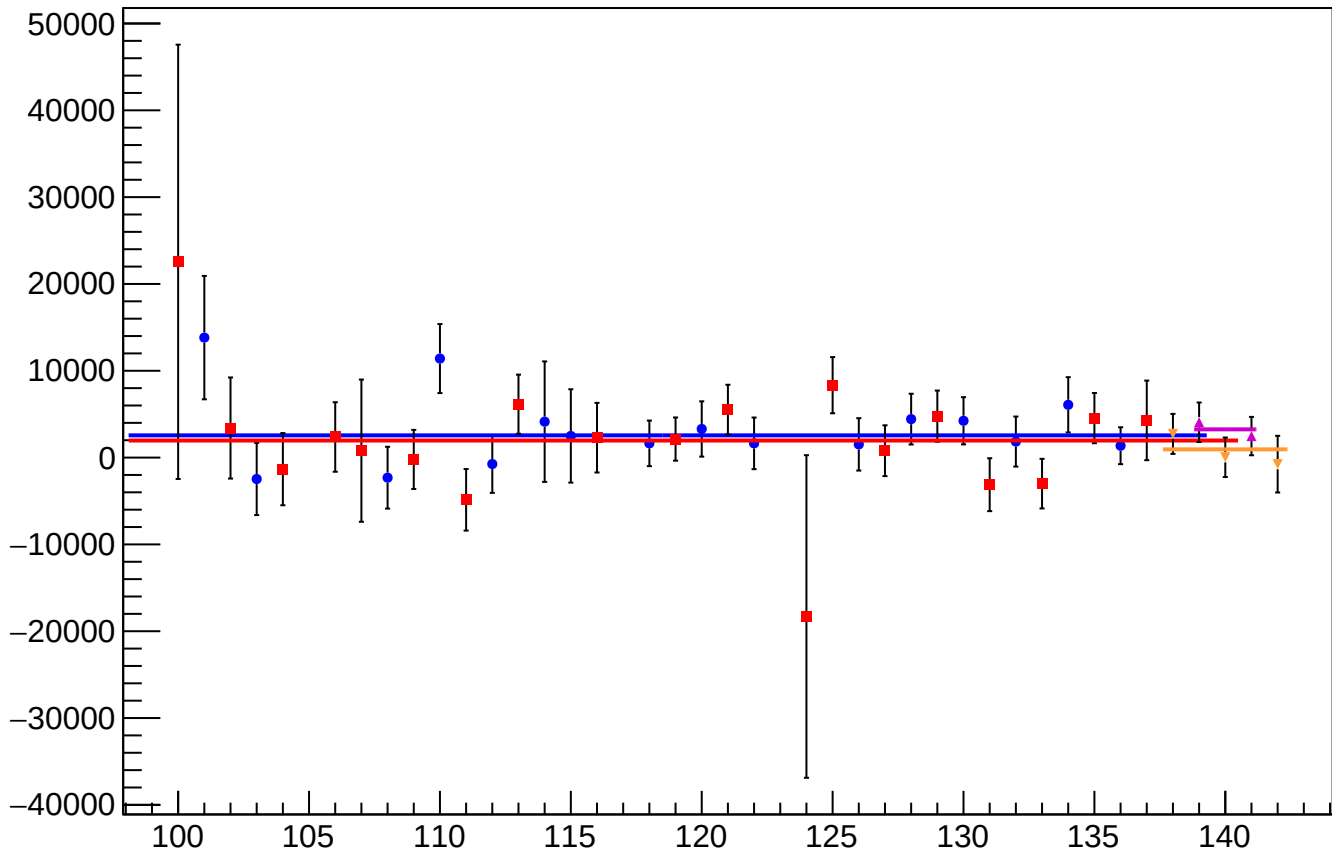
Right: 602.999+/-0.120 χ^2/NDF : 3491425.6/34

In: 640.052+/-0.160 χ^2/NDF : 1652582.5/17

Out: 641.625+/-0.162 χ^2/NDF : 2912956.3/21

All: 640.830+/-0.114 χ^2/NDF : 4565586.5/39

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2560.971 $\pm$ 809.658 χ^2/NDF : 14.6/15

Left Out: 946.642 $\pm$ 1450.461 χ^2/NDF : 1.0/2

Right Out: 1966.731 $\pm$ 818.839 χ^2/NDF : 21.6/18

Left In: 3250.917 $\pm$ 1584.300 χ^2/NDF : 0.3/1

Left: 1997.354 $\pm$ 1069.823 χ^2/NDF : 2.4/4

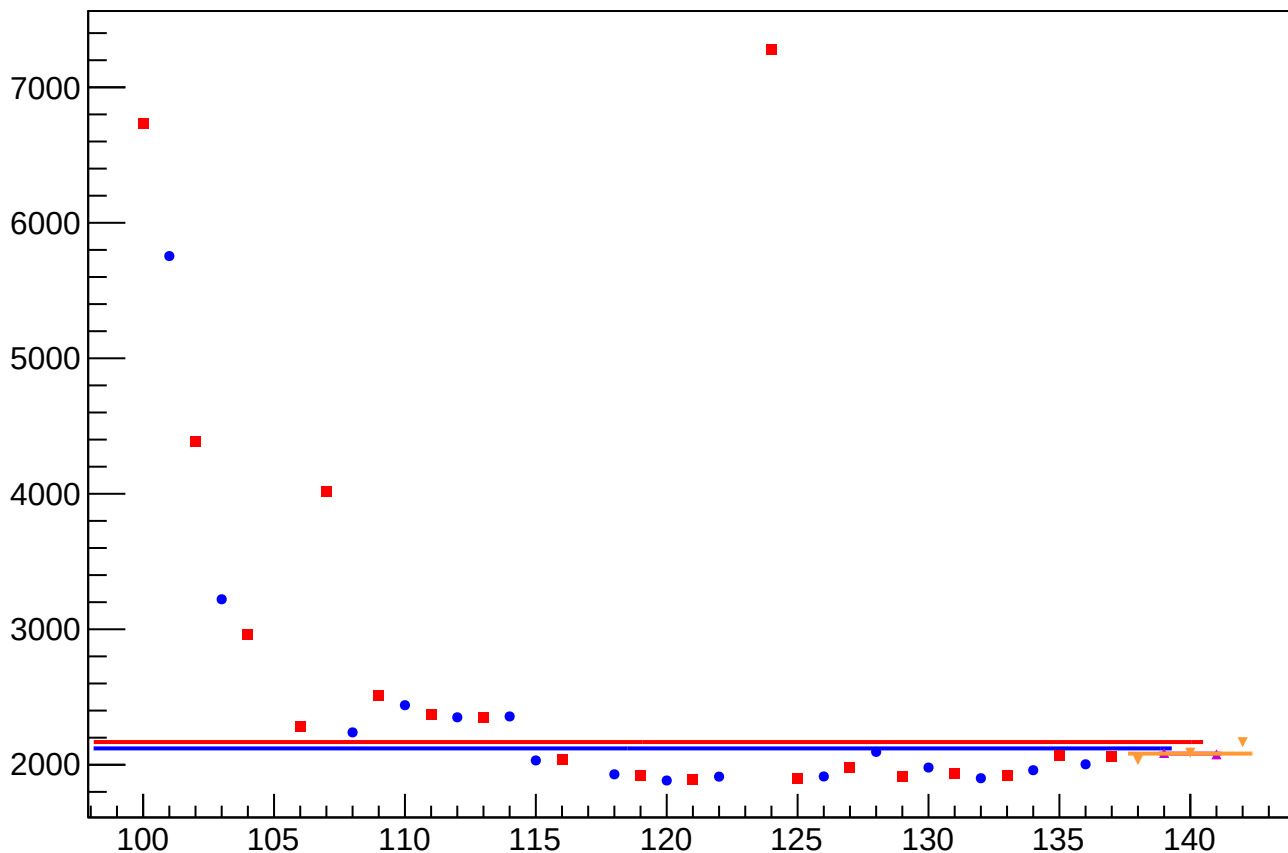
Right: 2267.201 $\pm$ 575.733 χ^2/NDF : 36.5/34

In: 2703.850 $\pm$ 720.965 χ^2/NDF : 15.0/17

Out: 1720.197 $\pm$ 713.059 χ^2/NDF : 23.0/21

All: 2206.600 $\pm$ 506.981 χ^2/NDF : 38.9/39

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2120.778+/-0.573 χ^2/NDF : 759969.1/15

Left Out: 2082.519+/-1.026 χ^2/NDF :2211.1/2

Right Out: 2167.840+/-0.579 χ^2/NDF : 823925.5/18

Left In: 2082.264+/-1.120 χ^2/NDF :21.5/1

Left: 2082.403+/-0.756 χ^2/NDF : 2232.7/4

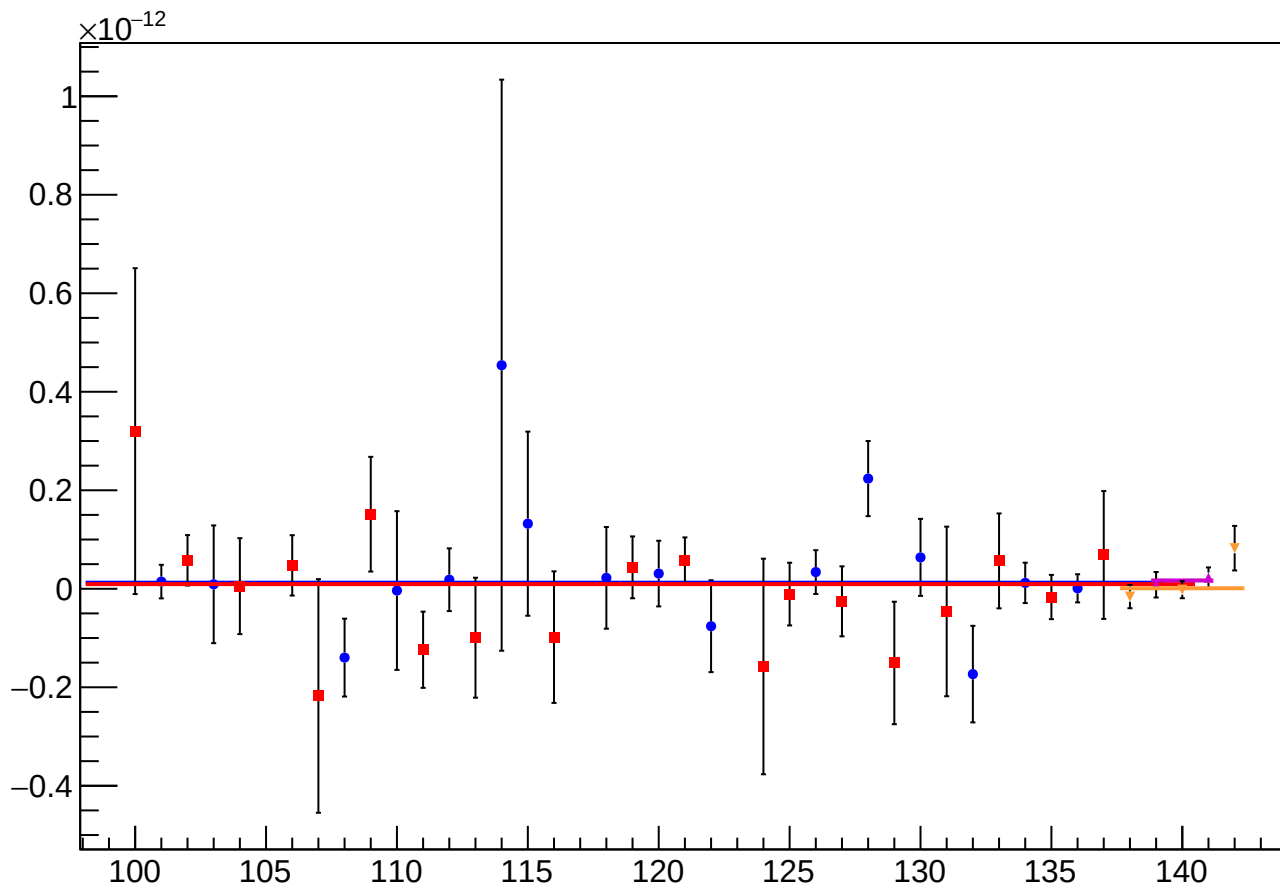
Right: 2144.044+/-0.407 χ^2/NDF : 1587235.2/34

In: 2112.802+/-0.510 χ^2/NDF :760927.8/17

Out: 2147.220+/-0.504 χ^2/NDF :831384.5/21

All: 2130.201+/-0.358 χ^2/NDF : 1594616.4/39

asym_at1_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 13.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.2/1

Left: 0.000+/-0.000 χ^2/NDF : 4.5/4

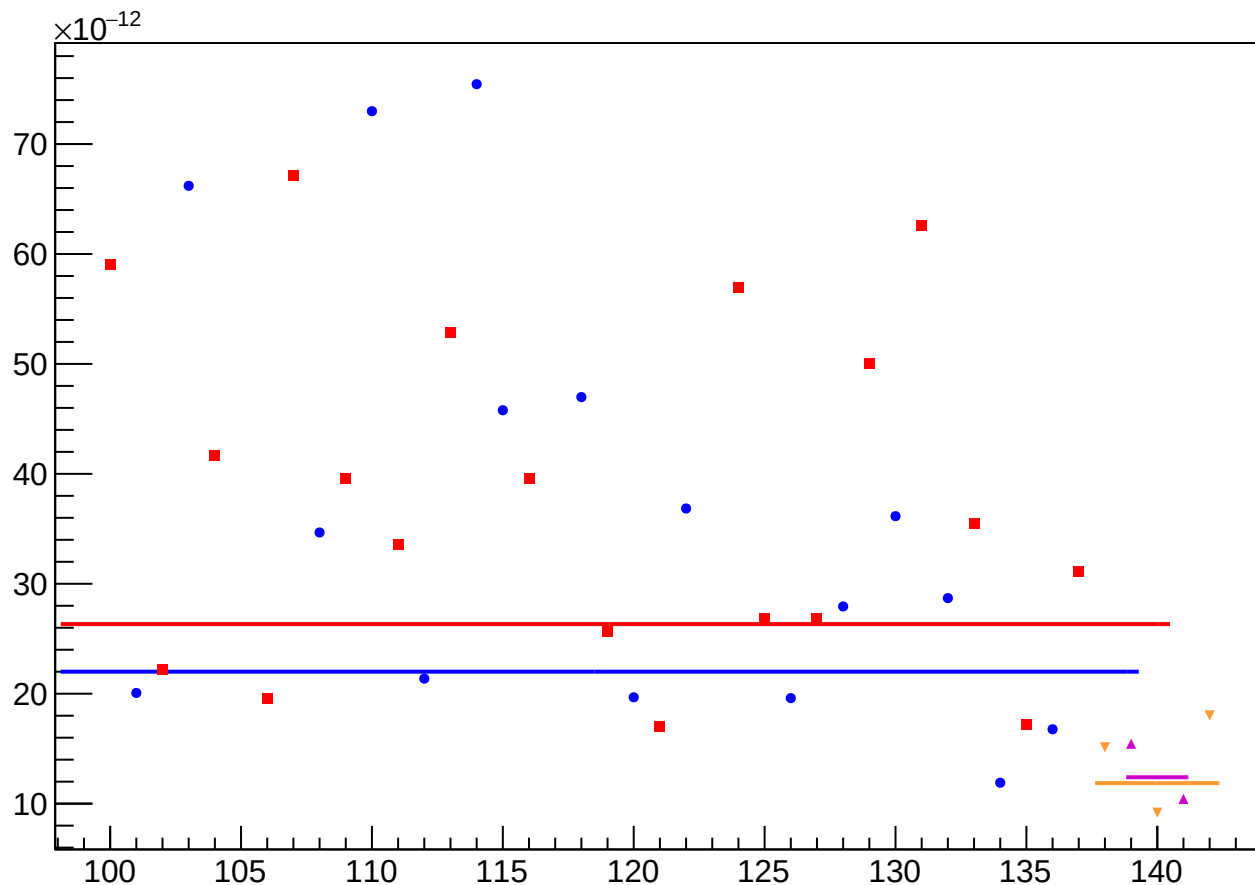
Right: 0.000+/-0.000 χ^2/NDF : 31.6/34

In: 0.000+/-0.000 χ^2/NDF : 18.0/17

Out: 0.000+/-0.000 χ^2/NDF : 17.7/21

All: 0.000+/-0.000 χ^2/NDF : 36.2/39

asym_at1_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1032604.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :122903.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 705211.2/18

Left In: 0.000+/-0.000 χ^2/NDF :45758.8/1

Left: 0.000+/-0.000 χ^2/NDF : 169945.8/4

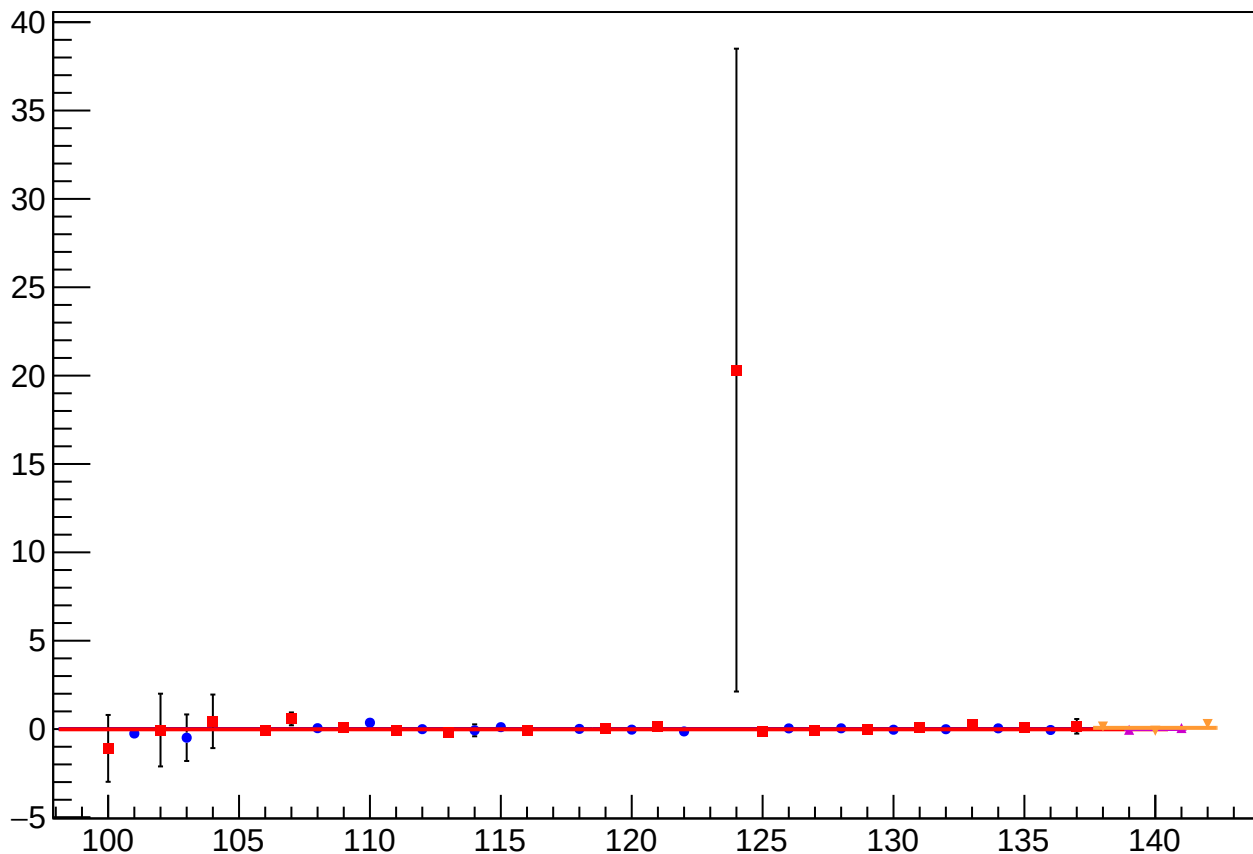
Right: 0.000+/-0.000 χ^2/NDF : 1806874.5/34

In: 0.000+/-0.000 χ^2/NDF :1463068.7/17

Out: 0.000+/-0.000 χ^2/NDF :1658098.4/21

All: 0.000+/-0.000 χ^2/NDF : 3124868.4/39

asym_at1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.027 χ^2 /NDF: 11.4/15

Left Out: 0.068 $\pm$ 0.061 χ^2 /NDF:5.5/2

Right Out: -0.013 $\pm$ 0.026 χ^2 /NDF: 17.6/18

Left In: 0.005 $\pm$ 0.051 χ^2 /NDF:1.0/1

Left: 0.030 $\pm$ 0.039 χ^2 /NDF: 7.1/4

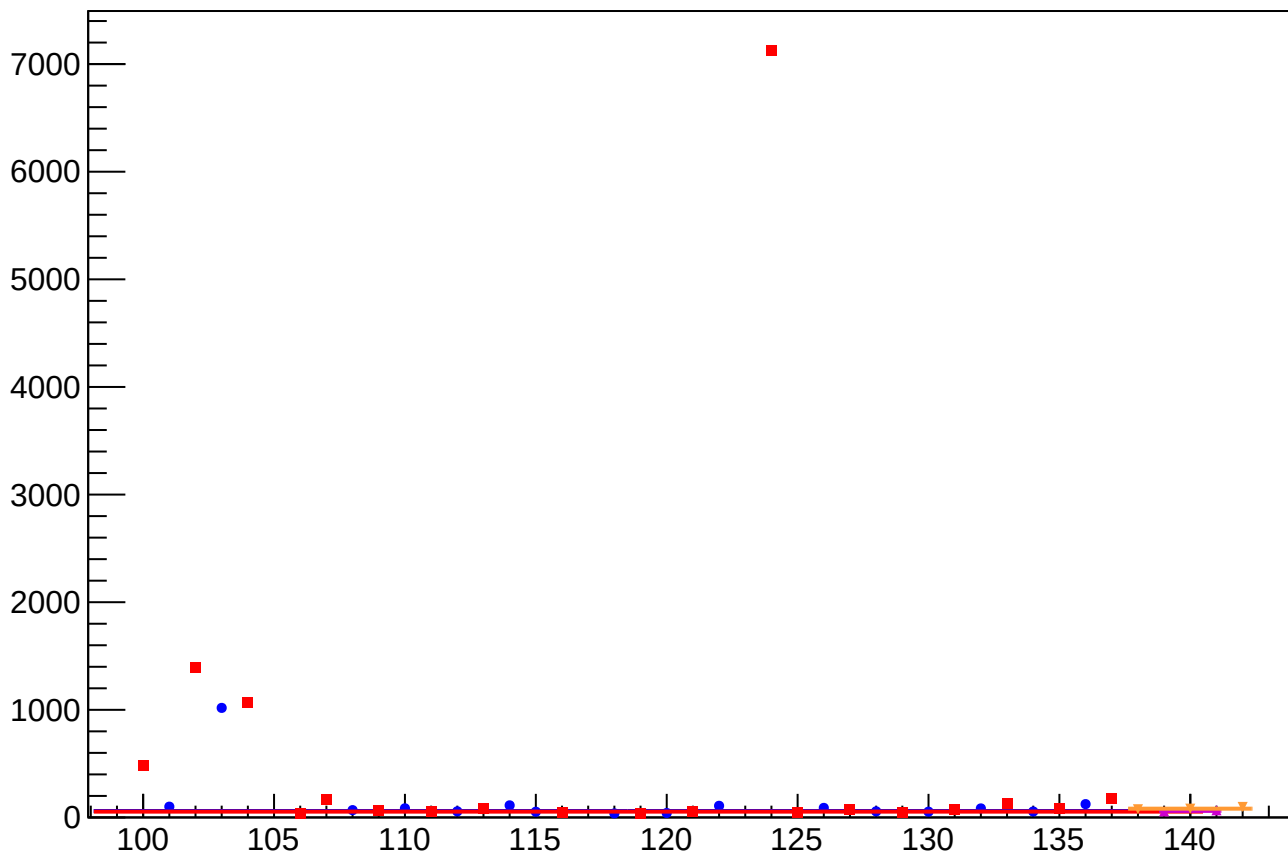
Right: -0.005 $\pm$ 0.019 χ^2 /NDF: 29.2/34

In: 0.004 $\pm$ 0.024 χ^2 /NDF:12.3/17

Out: -0.001 $\pm$ 0.024 χ^2 /NDF:24.6/21

All: 0.002 $\pm$ 0.017 χ^2 /NDF: 36.9/39

asym_at1_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.840+/-0.019 χ^2/NDF : 2538867.4/15

Left Out: 81.625+/-0.043 χ^2/NDF : 28818.3/2

Right Out: 54.249+/-0.018 χ^2/NDF : 3521580.5/18

Left In: 61.013+/-0.036 χ^2/NDF : 21252.9/1

Left: 69.365+/-0.028 χ^2/NDF : 184429.5/4

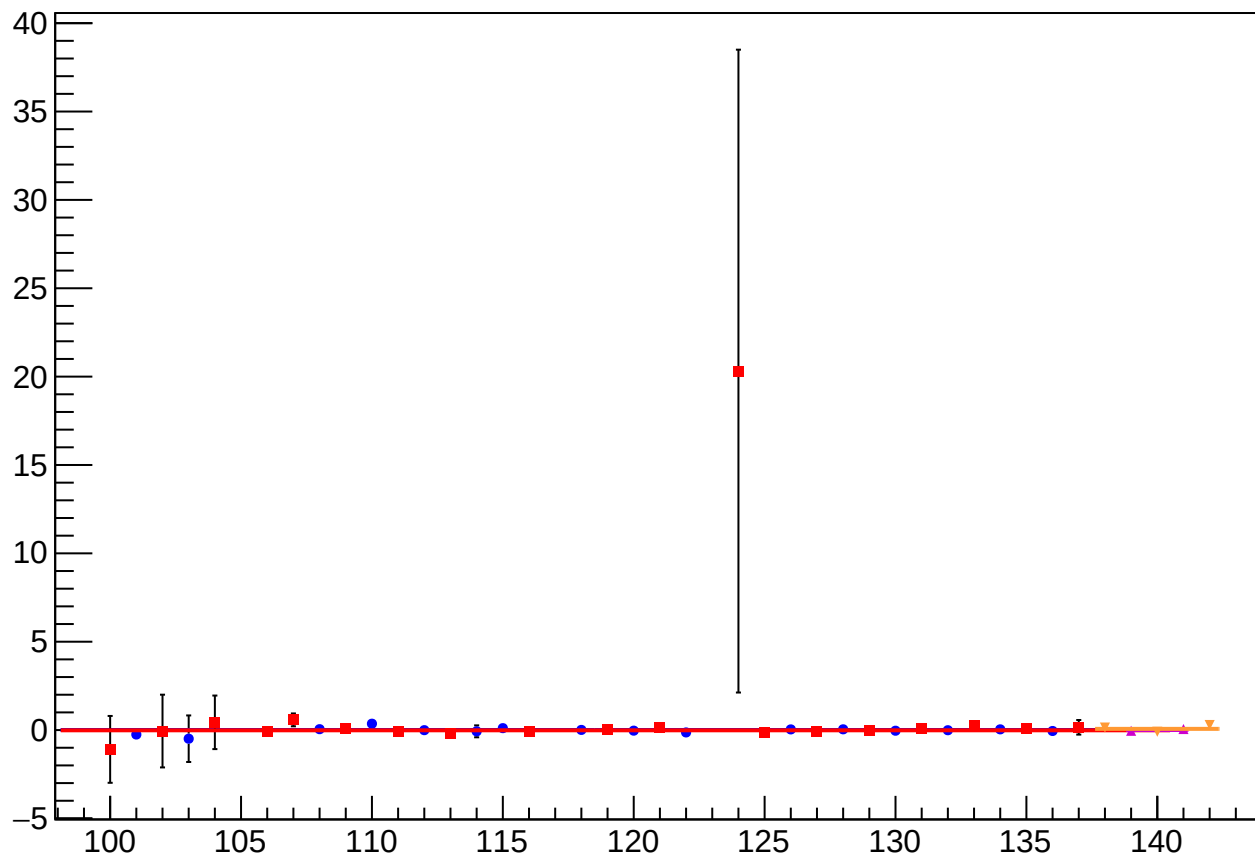
Right: 56.948+/-0.013 χ^2/NDF : 6105751.4/34

In: 60.095+/-0.017 χ^2/NDF : 2560960.1/17

Out: 58.367+/-0.017 χ^2/NDF : 3888915.6/21

All: 59.237+/-0.012 χ^2/NDF : 6455186.9/39

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.004+/-0.027 χ^2/NDF : 11.4/15

Left Out: 0.068+/-0.061 χ^2/NDF : 5.5/2

Right Out: -0.013+/-0.026 χ^2/NDF : 17.6/18

Left In: 0.005+/-0.051 χ^2/NDF : 1.0/1

Left: 0.030+/-0.039 χ^2/NDF : 7.1/4

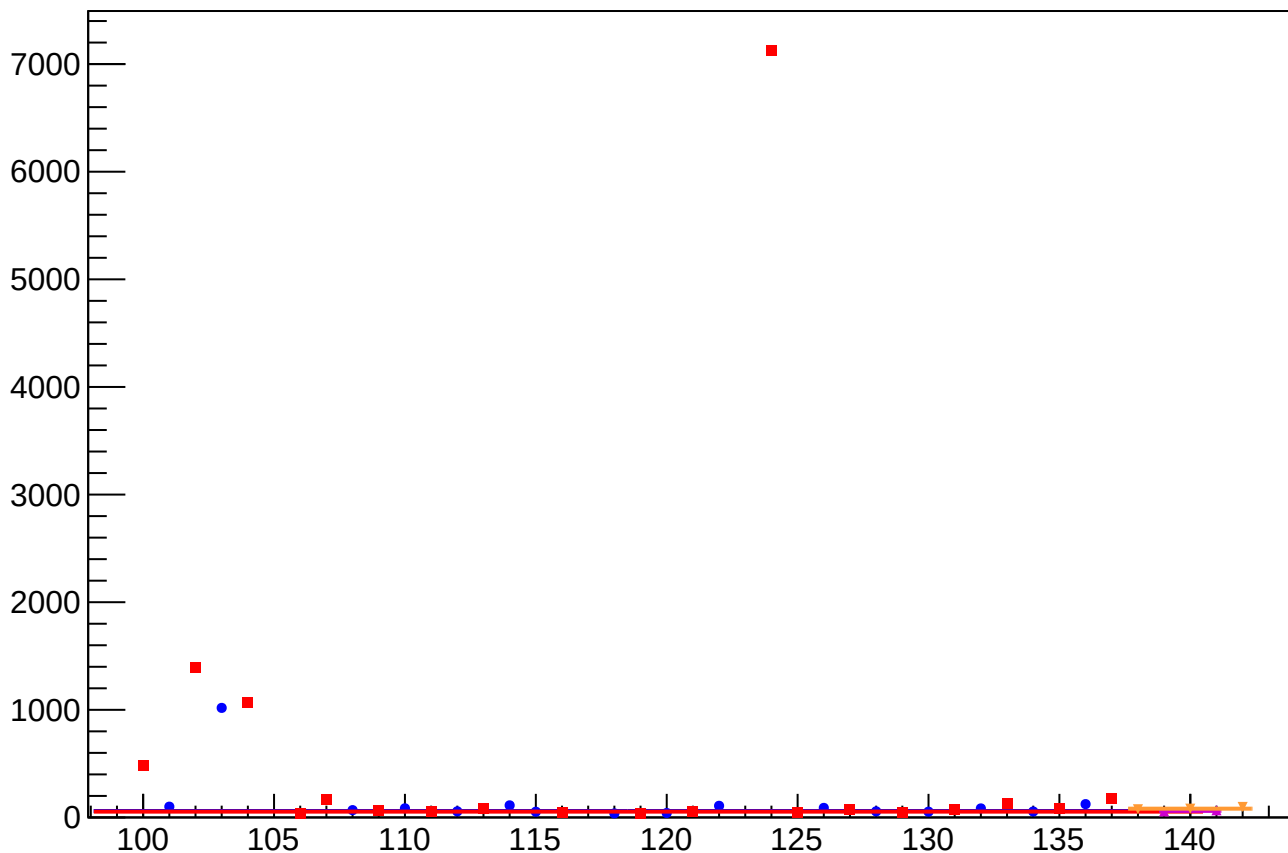
Right: -0.005+/-0.019 χ^2/NDF : 29.2/34

In: 0.004+/-0.024 χ^2/NDF : 12.3/17

Out: -0.001+/-0.024 χ^2/NDF : 24.6/21

All: 0.002+/-0.017 χ^2/NDF : 36.9/39

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.840+/-0.019 χ^2/NDF : 2538867.4/15

Left Out: 81.625+/-0.043 χ^2/NDF : 28818.3/2

Right Out: 54.249+/-0.018 χ^2/NDF : 3521580.5/18

Left In: 61.013+/-0.036 χ^2/NDF : 21252.9/1

Left: 69.365+/-0.028 χ^2/NDF : 184429.5/4

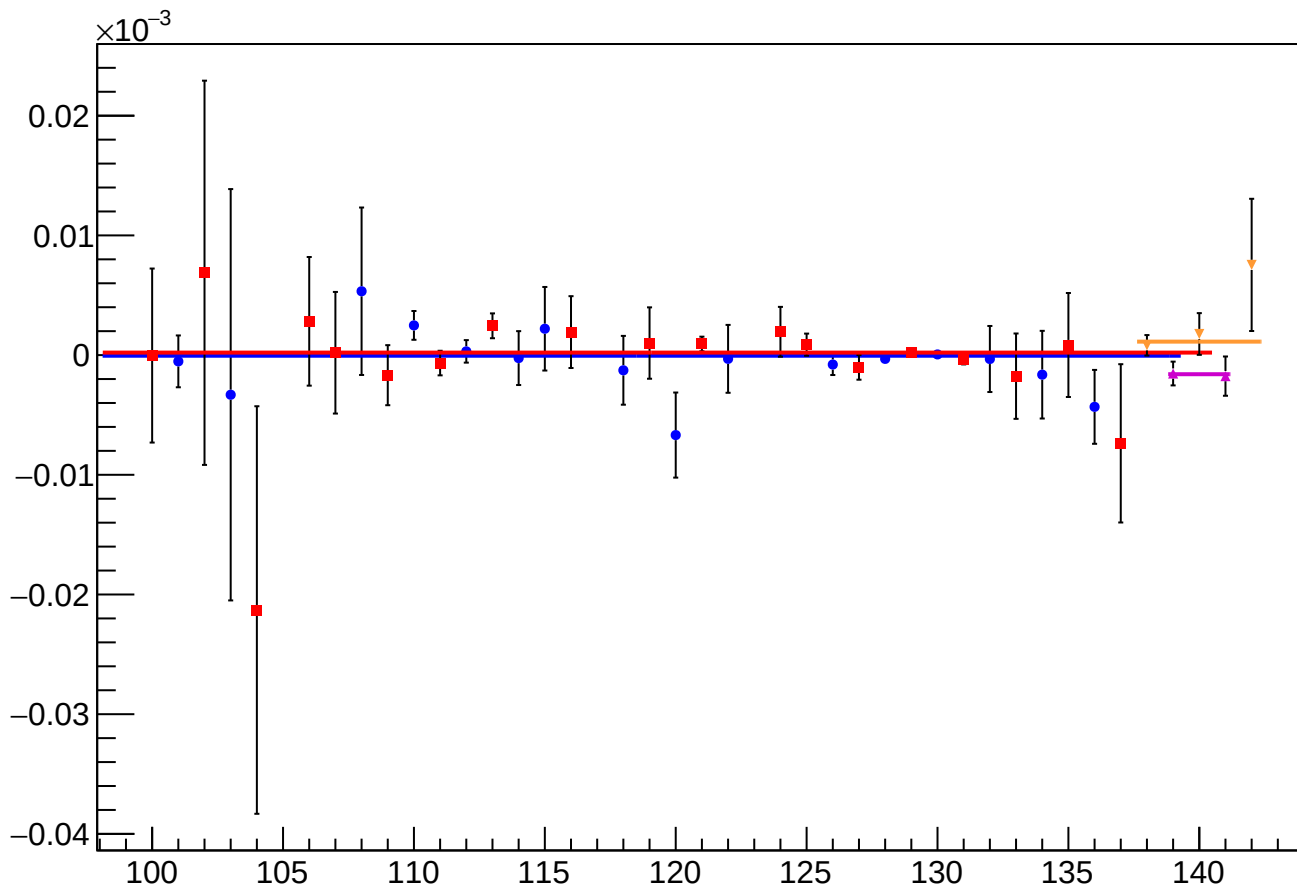
Right: 56.948+/-0.013 χ^2/NDF : 6105751.4/34

In: 60.095+/-0.017 χ^2/NDF : 2560960.1/17

Out: 58.367+/-0.017 χ^2/NDF : 3888915.6/21

All: 59.237+/-0.012 χ^2/NDF : 6455186.9/39

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 12.8/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:1.6/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 15.6/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:0.0/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 7.3/4

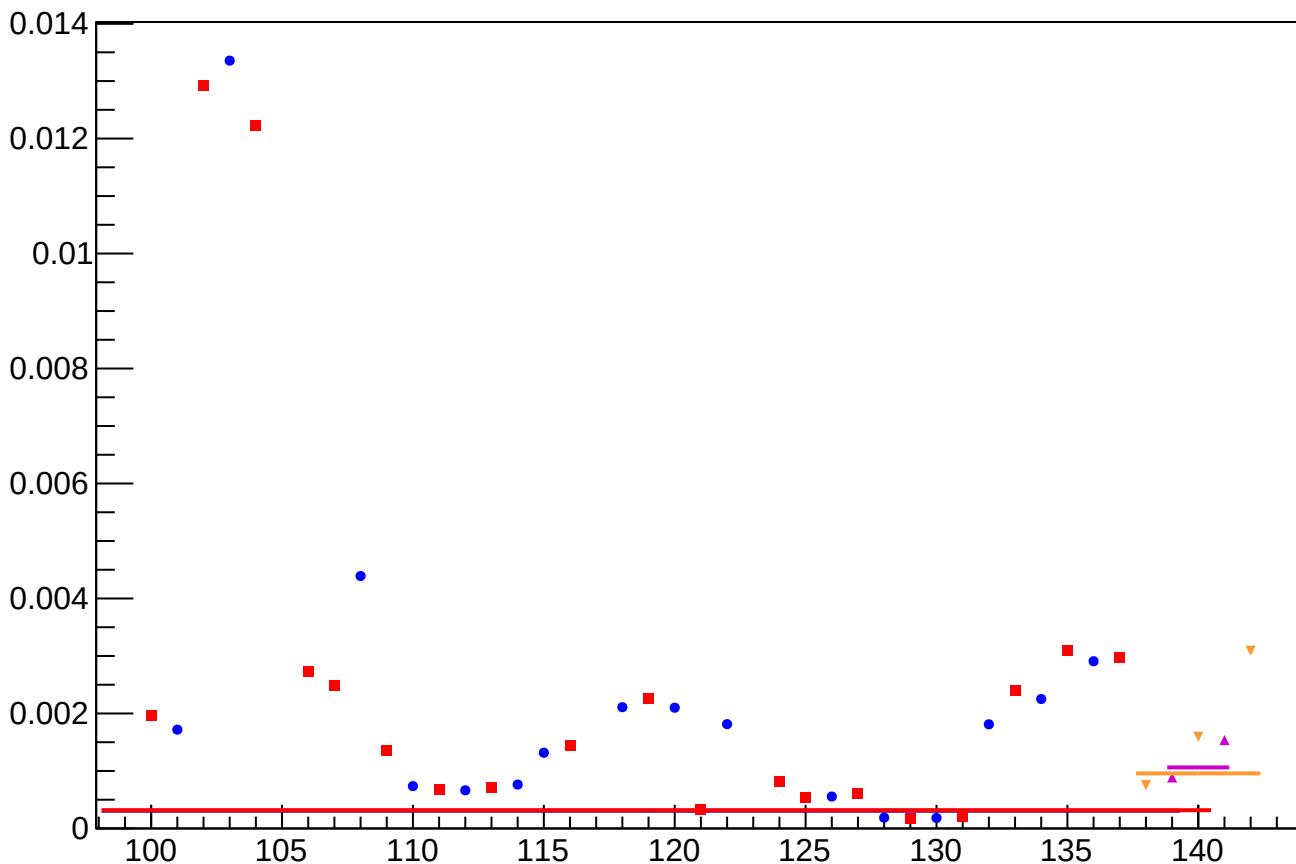
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 29.4/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:16.0/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:18.6/21

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 36.8/39

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8756212.9/15

Left Out: 0.001+/-0.000 χ^2/NDF : 679554.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 8015537.3/18

Left In: 0.001+/-0.000 χ^2/NDF : 230231.3/1

Left: 0.001+/-0.000 χ^2/NDF : 926437.8/4

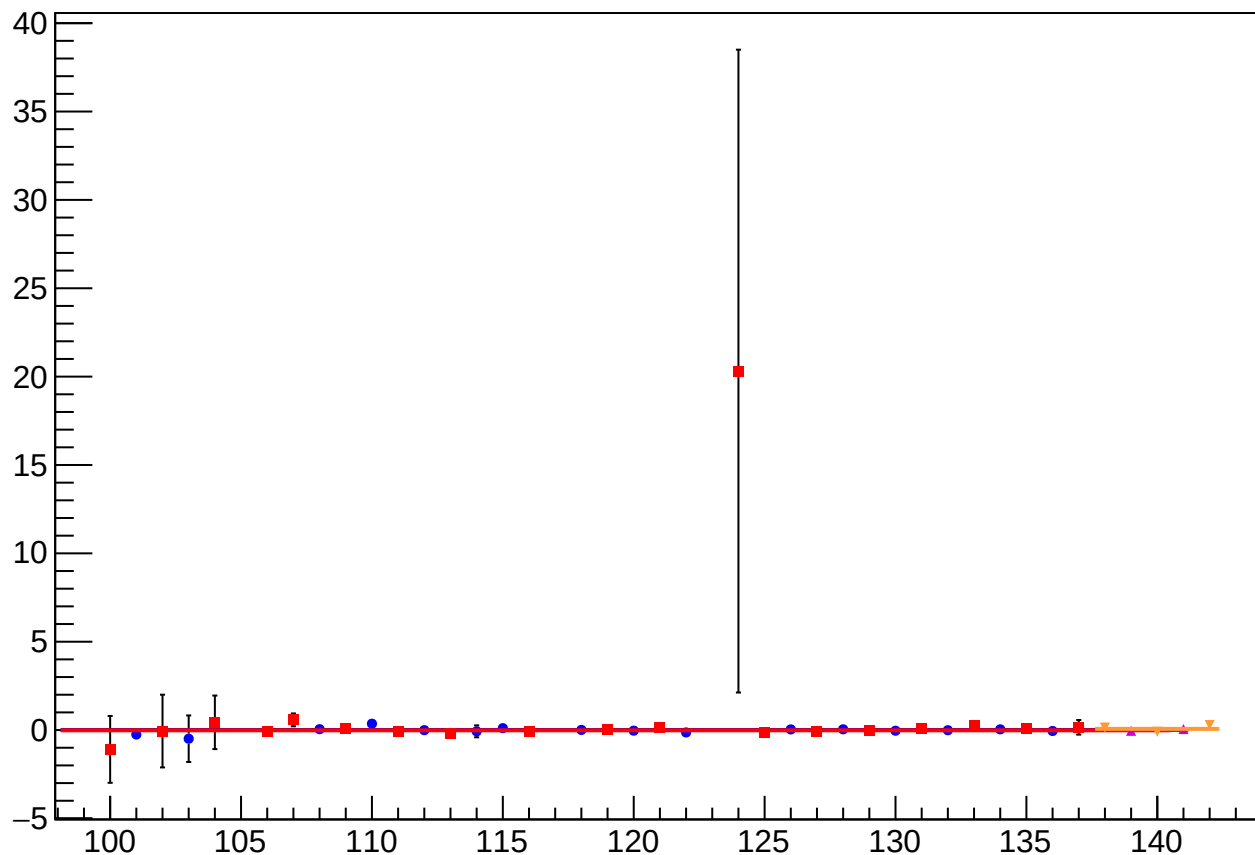
Right: 0.000+/-0.000 χ^2/NDF : 16773891.5/34

In: 0.000+/-0.000 χ^2/NDF : 10482533.7/17

Out: 0.000+/-0.000 χ^2/NDF : 10026074.6/21

All: 0.000+/-0.000 χ^2/NDF : 20511649.3/39

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.027 χ^2 /NDF: 11.4/15

Left Out: 0.068 $\pm$ 0.061 χ^2 /NDF:5.5/2

Right Out: -0.013 $\pm$ 0.026 χ^2 /NDF: 17.6/18

Left In: 0.005 $\pm$ 0.051 χ^2 /NDF:1.0/1

Left: 0.030 $\pm$ 0.039 χ^2 /NDF: 7.1/4

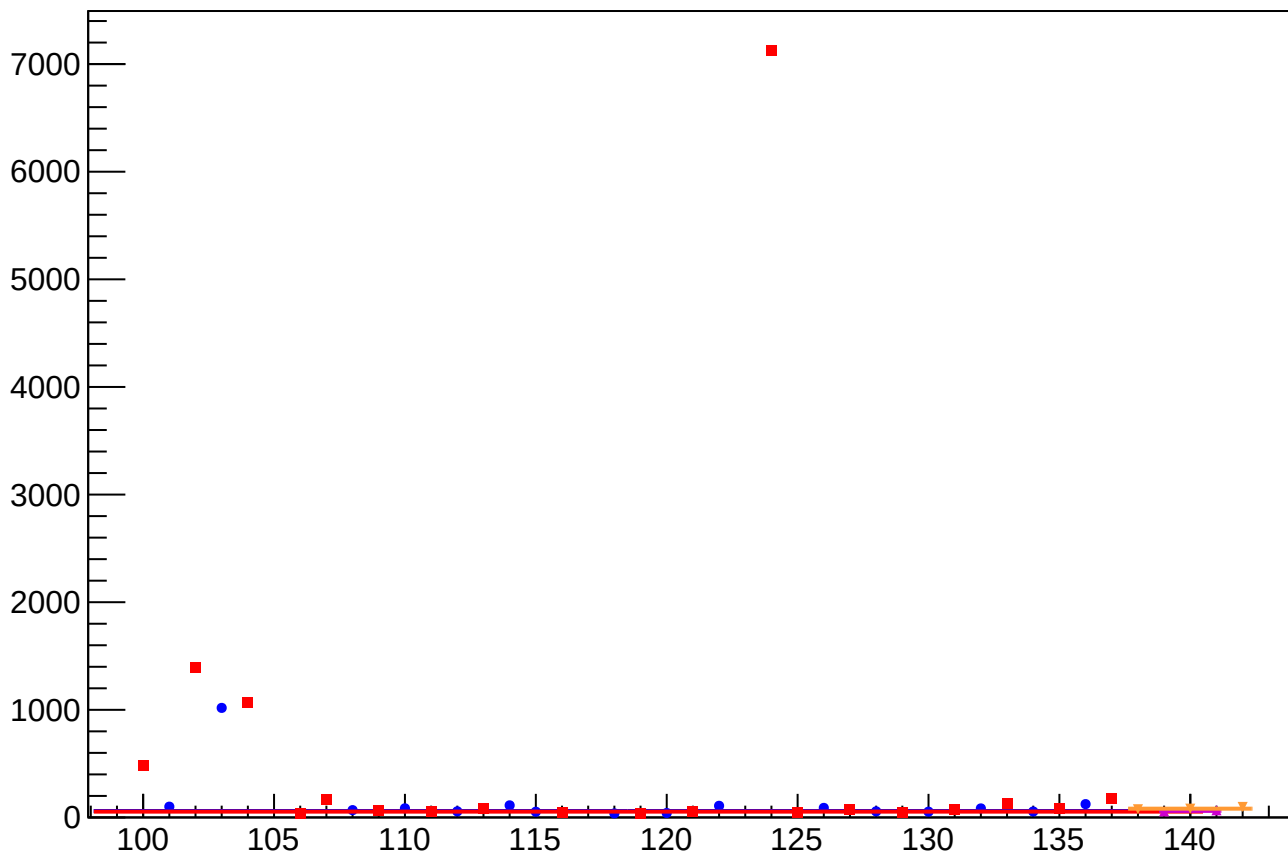
Right: -0.005 $\pm$ 0.019 χ^2 /NDF: 29.2/34

In: 0.004 $\pm$ 0.024 χ^2 /NDF:12.3/17

Out: -0.001 $\pm$ 0.024 χ^2 /NDF:24.6/21

All: 0.002 $\pm$ 0.017 χ^2 /NDF: 36.9/39

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.839+/-0.019 χ^2/NDF : 2538881.2/15

Left Out: 81.625+/-0.043 χ^2/NDF : 28820.0/2

Right Out: 54.248+/-0.018 χ^2/NDF : 3521640.4/18

Left In: 61.012+/-0.036 χ^2/NDF : 21252.6/1

Left: 69.365+/-0.028 χ^2/NDF : 184432.5/4

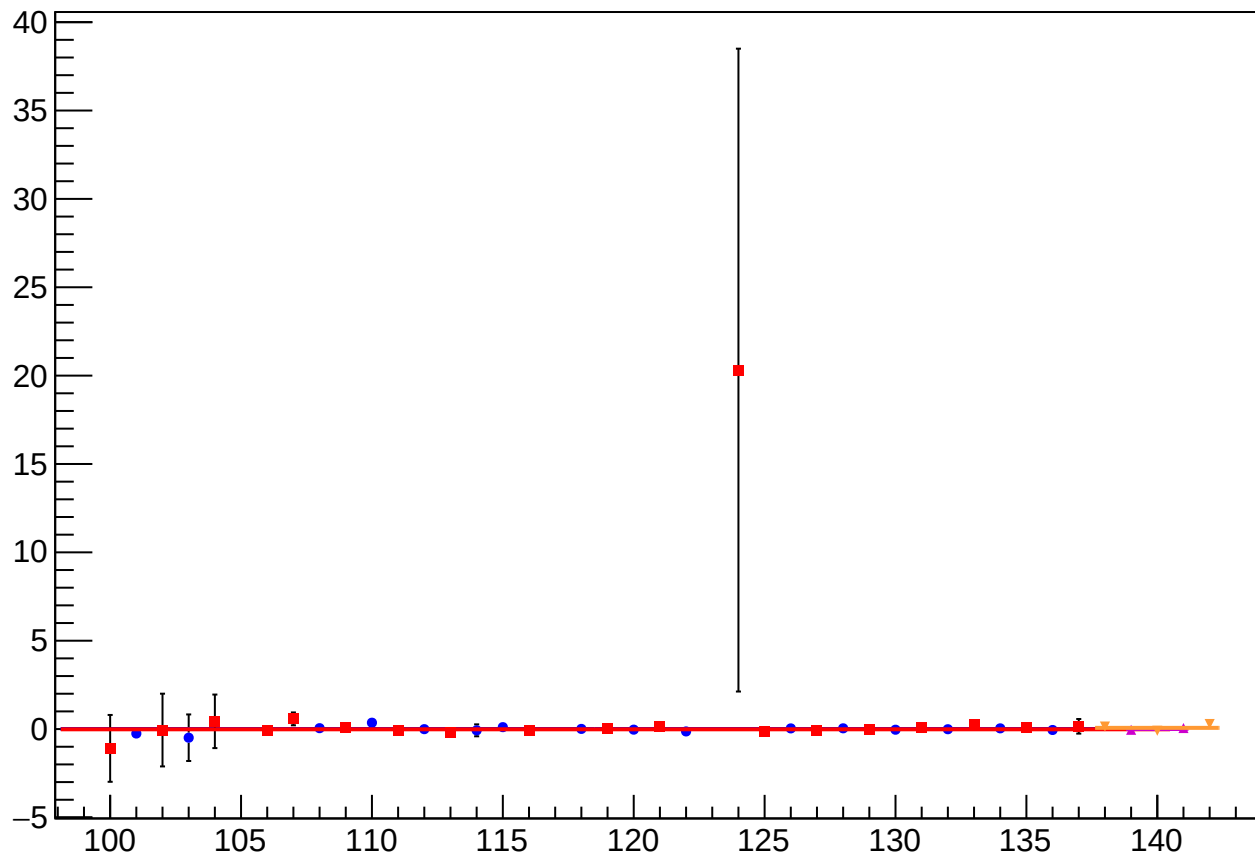
Right: 56.947+/-0.013 χ^2/NDF : 6105839.5/34

In: 60.095+/-0.017 χ^2/NDF : 2560973.7/17

Out: 58.366+/-0.017 χ^2/NDF : 3889003.9/21

All: 59.237+/-0.012 χ^2/NDF : 6455293.7/39

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.027 χ^2 /NDF: 11.4/15

Left Out: 0.068 $\pm$ 0.061 χ^2 /NDF:5.5/2

Right Out: -0.013 $\pm$ 0.026 χ^2 /NDF: 17.6/18

Left In: 0.005 $\pm$ 0.051 χ^2 /NDF:1.0/1

Left: 0.030 $\pm$ 0.039 χ^2 /NDF: 7.1/4

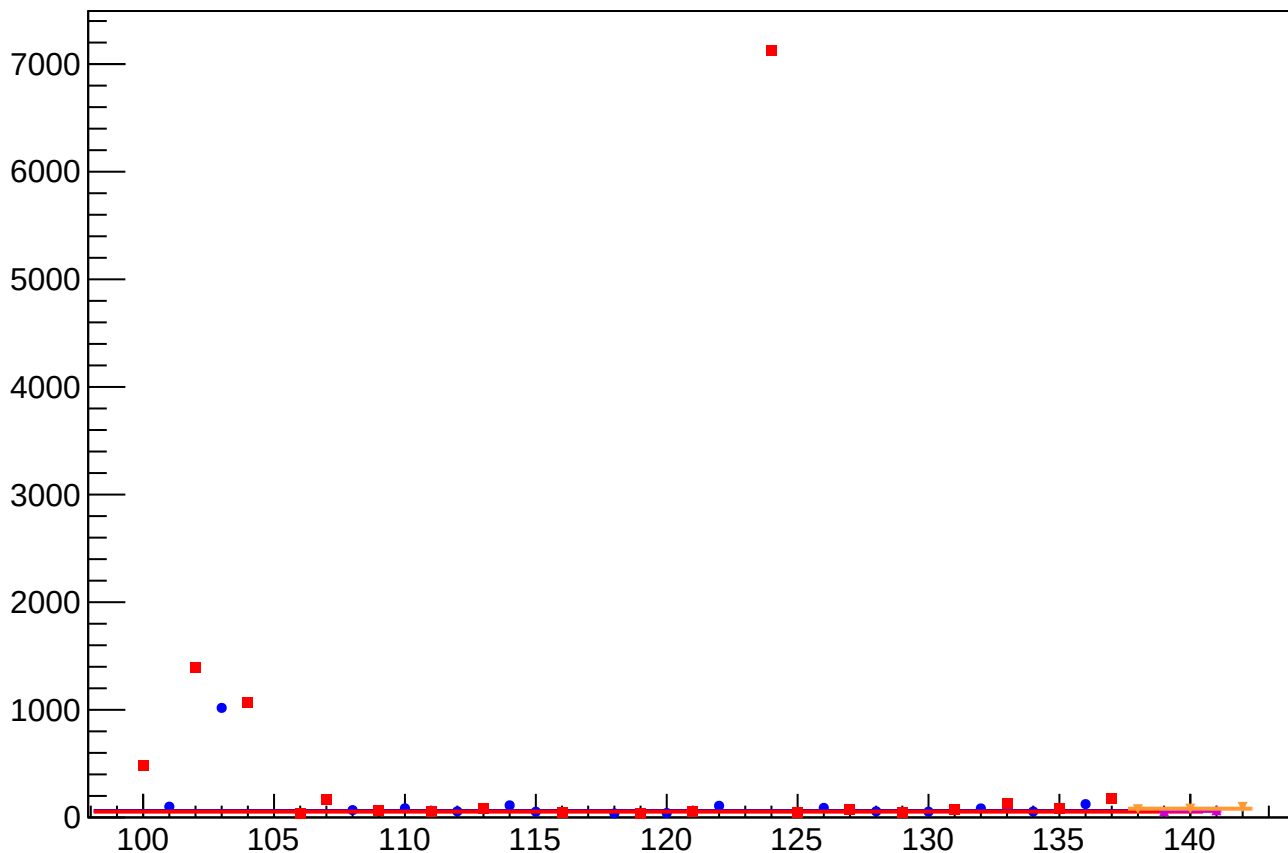
Right: -0.005 $\pm$ 0.019 χ^2 /NDF: 29.2/34

In: 0.004 $\pm$ 0.024 χ^2 /NDF:12.3/17

Out: -0.001 $\pm$ 0.024 χ^2 /NDF:24.6/21

All: 0.002 $\pm$ 0.017 χ^2 /NDF: 36.9/39

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.839+/-0.019 χ^2/NDF : 2538881.2/15

Left Out: 81.625+/-0.043 χ^2/NDF : 28820.0/2

Right Out: 54.248+/-0.018 χ^2/NDF : 3521640.4/18

Left In: 61.012+/-0.036 χ^2/NDF : 21252.6/1

Left: 69.365+/-0.028 χ^2/NDF : 184432.5/4

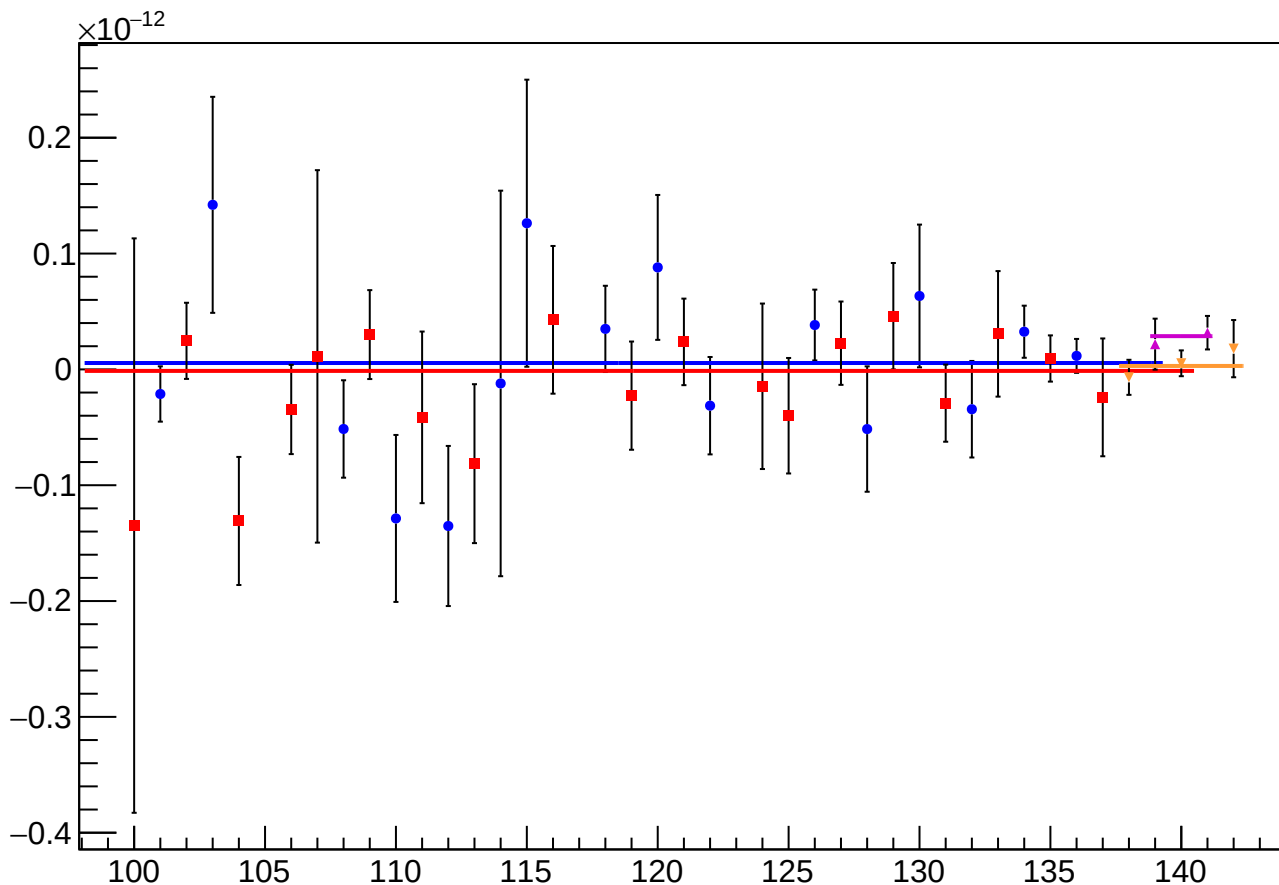
Right: 56.947+/-0.013 χ^2/NDF : 6105839.5/34

In: 60.095+/-0.017 χ^2/NDF : 2560973.7/17

Out: 58.366+/-0.017 χ^2/NDF : 3889003.9/21

All: 59.237+/-0.012 χ^2/NDF : 6455293.7/39

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 22.6/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.8/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 14.3/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.1/1

Left: 0.000 ± 0.000 χ^2/NDF : 4.0/4

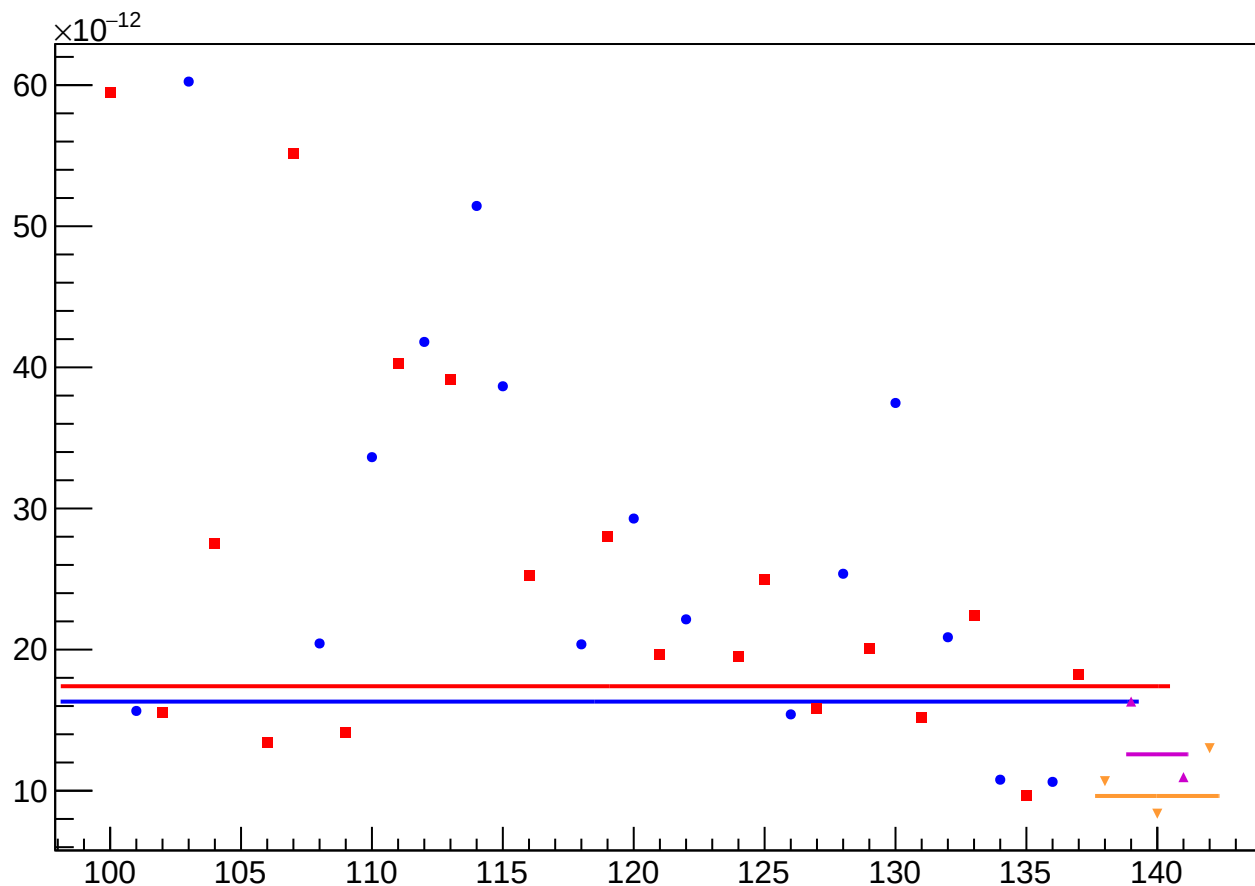
Right: 0.000 ± 0.000 χ^2/NDF : 37.2/34

In: 0.000 ± 0.000 χ^2/NDF : 25.2/17

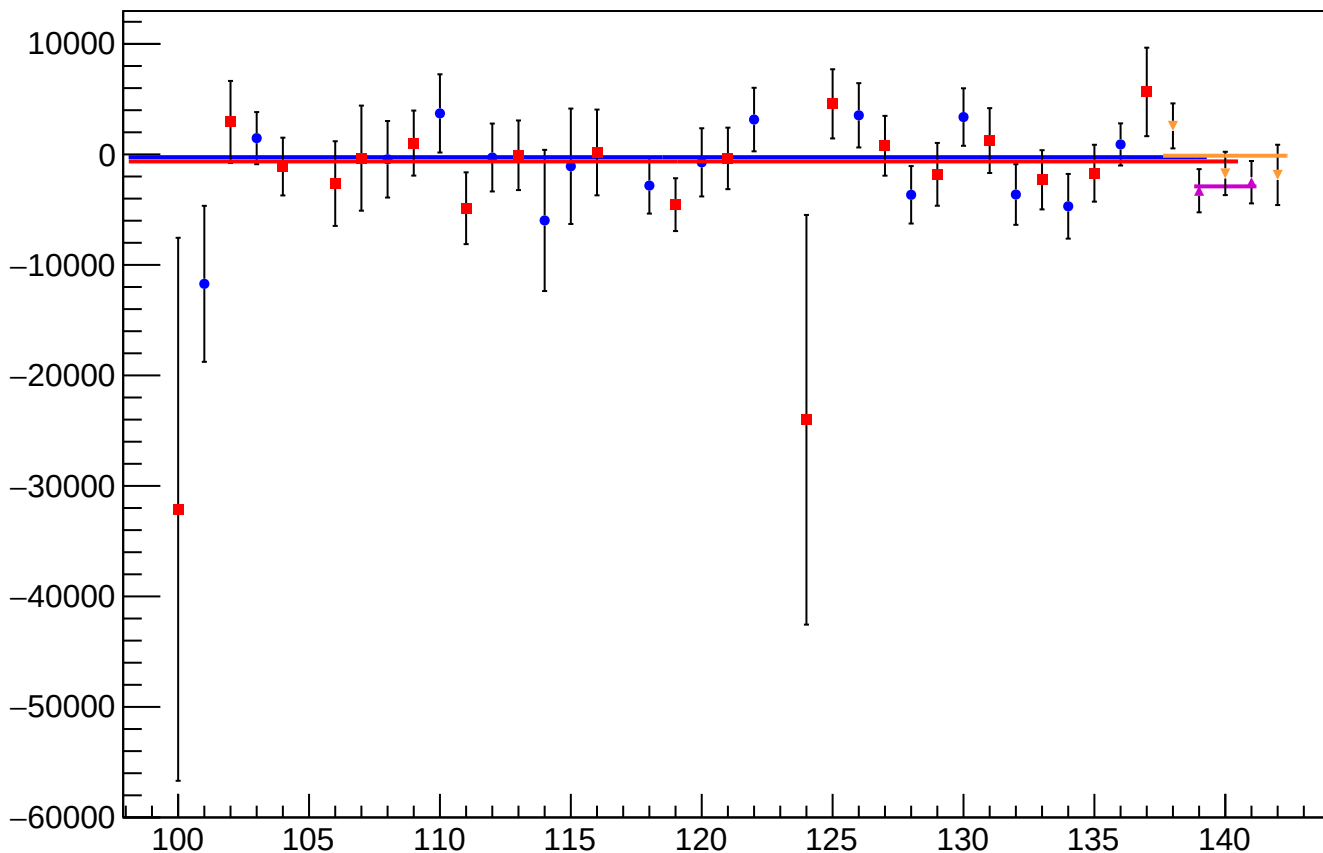
Out: 0.000 ± 0.000 χ^2/NDF : 15.2/21

All: 0.000 ± 0.000 χ^2/NDF : 42.1/39

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -251.297+/-735.111 χ^2/NDF : 17.3/15

Left Out: -118.545+/-1254.297 χ^2/NDF : 2.8/2

Right Out: -636.082+/-735.477 χ^2/NDF : 15.9/18

Left In: -2894.460+/-1369.039 χ^2/NDF : 0.1/1

Left: -1385.318+/-924.831 χ^2/NDF : 5.1/4

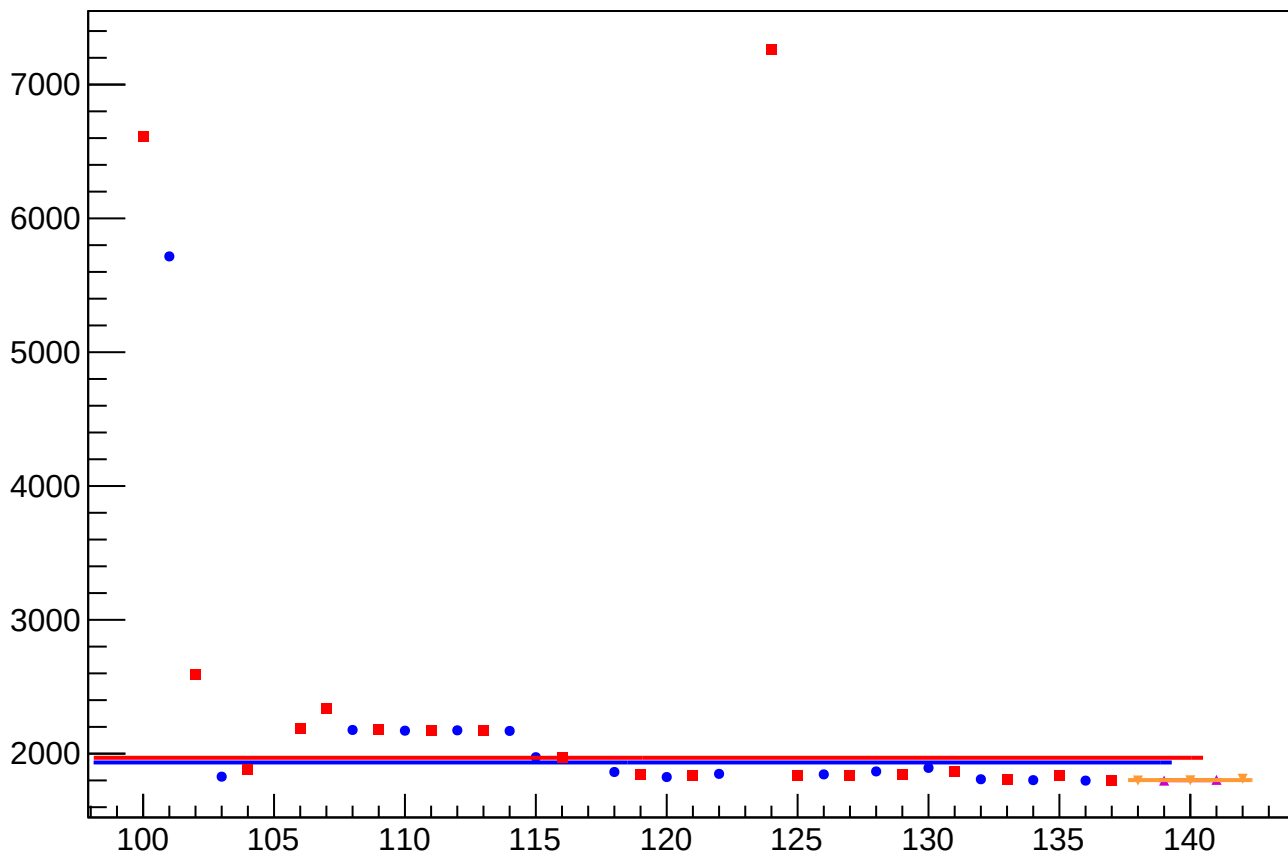
Right: -443.594+/-519.932 χ^2/NDF : 33.3/34

In: -842.824+/-647.651 χ^2/NDF : 20.2/17

Out: -503.667+/-634.451 χ^2/NDF : 18.9/21

All: -669.754+/-453.219 χ^2/NDF : 39.2/39

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1934.217+/-0.520 χ^2/NDF : 639920.0/15

Left Out: 1802.427+/-0.887 χ^2/NDF : 34.1/2

Right Out: 1969.204+/-0.520 χ^2/NDF : 378378.8/18

Left In: 1801.639+/-0.968 χ^2/NDF : 8.9/1

Left: 1802.068+/-0.654 χ^2/NDF : 43.3/4

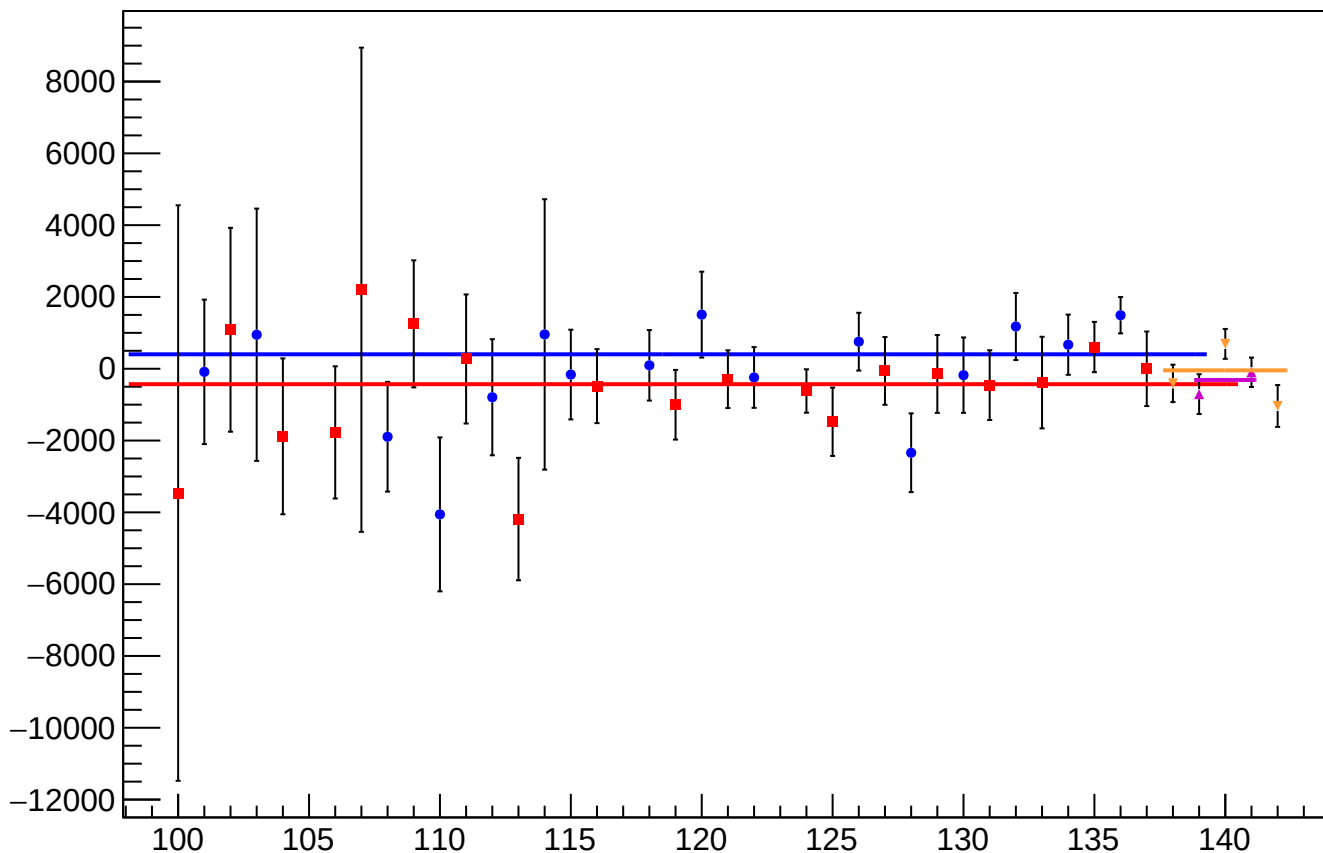
Right: 1951.702+/-0.368 χ^2/NDF : 1020563.0/34

In: 1904.546+/-0.458 χ^2/NDF : 654487.3/17

Out: 1926.533+/-0.449 χ^2/NDF : 404725.1/21

All: 1915.766+/-0.320 χ^2/NDF : 1060388.7/39

asym_at1_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 402.626 $\pm$ 258.574 χ^2 /NDF: 21.1/15

Left Out: -44.445 $\pm$ 283.819 χ^2 /NDF:6.5/2

Right Out: -430.066 $\pm$ 252.823 χ^2 /NDF: 11.7/18

Left In: -312.988 $\pm$ 329.500 χ^2 /NDF:0.8/1

Left: -158.826 $\pm$ 215.043 χ^2 /NDF: 7.7/4

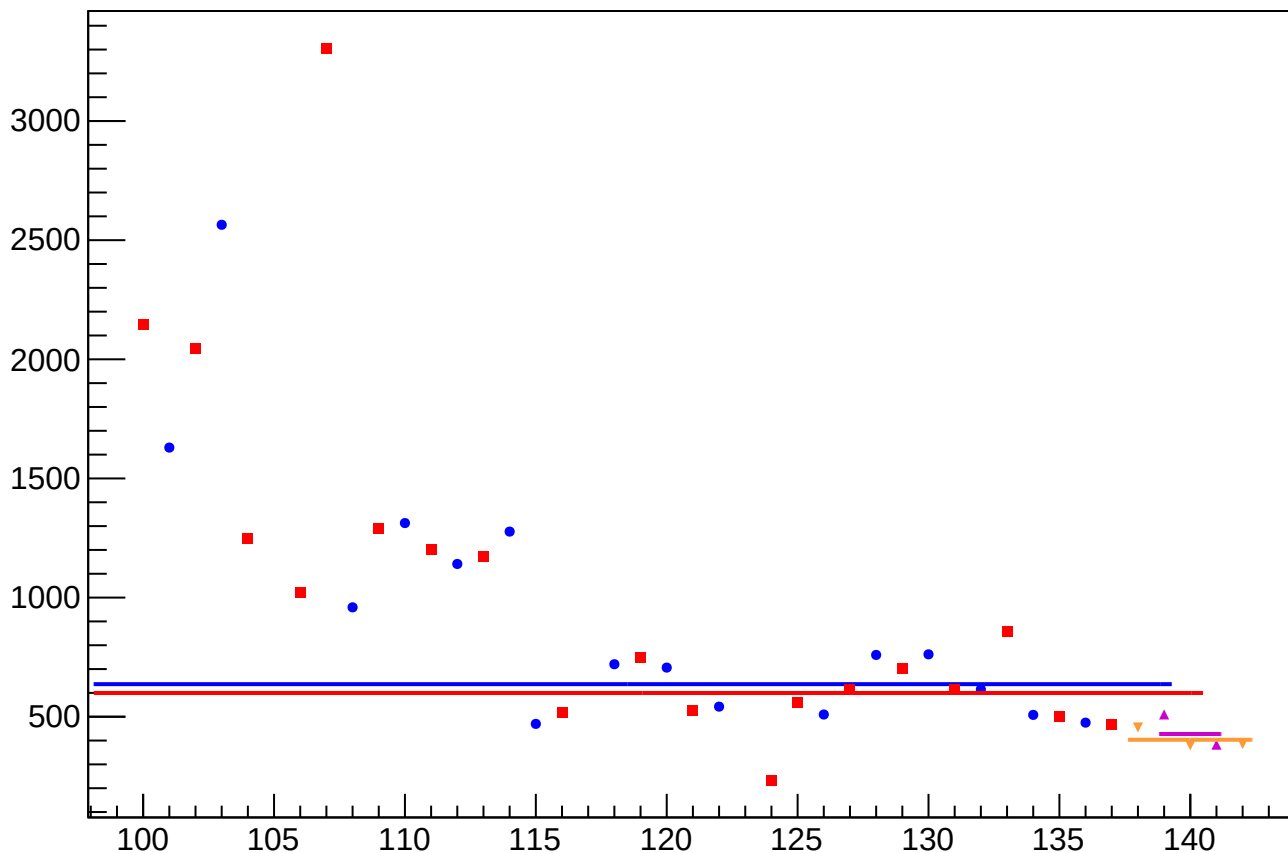
Right: -23.083 $\pm$ 180.772 χ^2 /NDF: 38.2/34

In: 129.890 $\pm$ 203.417 χ^2 /NDF:24.8/17

Out: -259.455 $\pm$ 188.784 χ^2 /NDF:19.3/21

All: -79.289 $\pm$ 138.375 χ^2 /NDF: 46.1/39

asym_at1_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 636.700+/-0.183 χ^2/NDF : 2066891.4/15

Left Out: 403.273+/-0.201 χ^2/NDF : 27865.6/2

Right Out: 599.631+/-0.179 χ^2/NDF : 2944100.6/18

Left In: 427.579+/-0.233 χ^2/NDF : 67639.4/1

Left: 413.625+/-0.152 χ^2/NDF : 101752.6/4

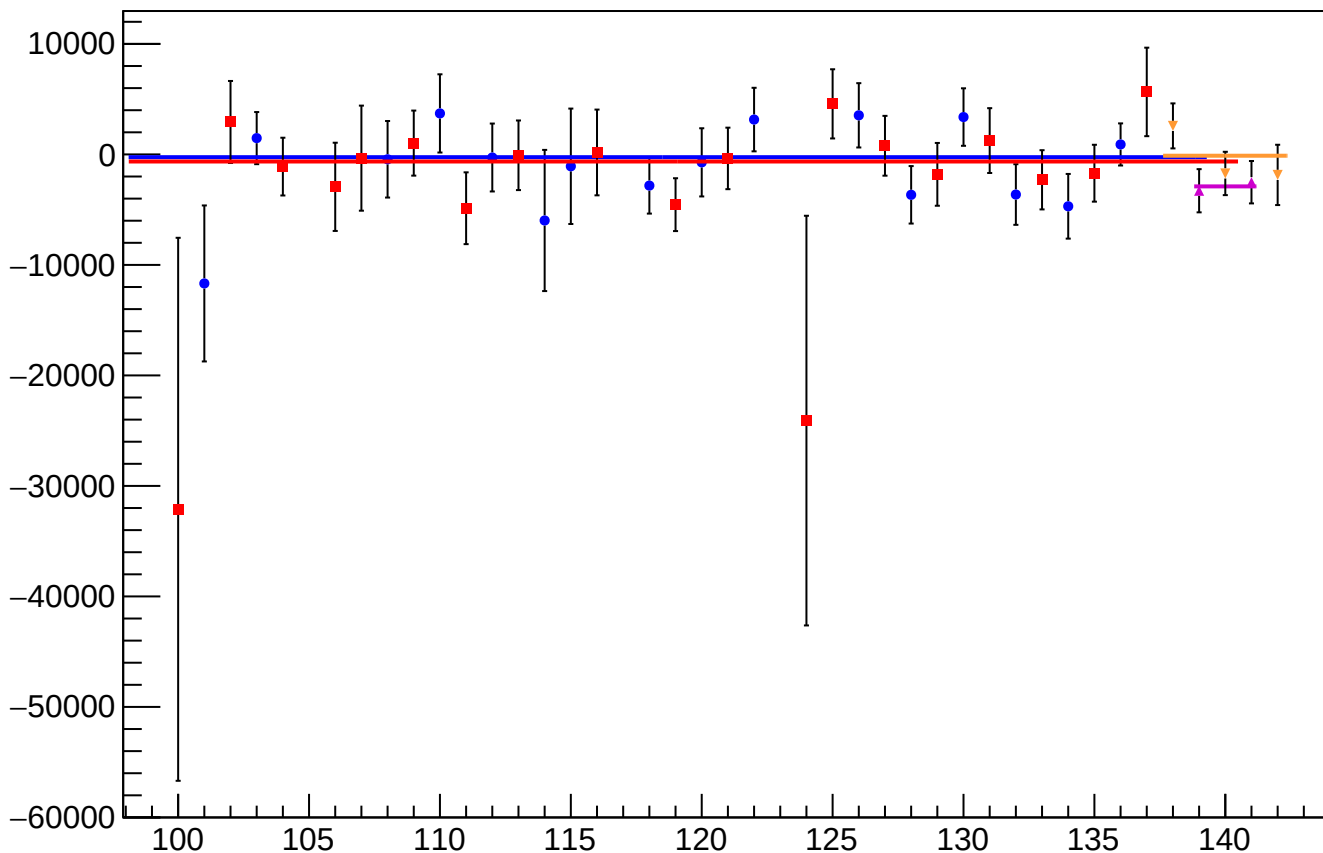
Right: 617.749+/-0.128 χ^2/NDF : 5032005.8/34

In: 556.999+/-0.144 χ^2/NDF : 2633093.3/17

Out: 512.756+/-0.133 χ^2/NDF : 3505721.7/21

All: 533.229+/-0.098 χ^2/NDF : 6189647.1/39

cor_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -250.487+/-735.112 χ^2/NDF : 17.2/15

Left Out: -118.538+/-1254.297 χ^2/NDF : 2.8/2

Right Out: -640.865+/-736.549 χ^2/NDF : 16.0/18

Left In: -2894.450+/-1369.039 χ^2/NDF : 0.1/1

Left: -1385.310+/-924.831 χ^2/NDF : 5.1/4

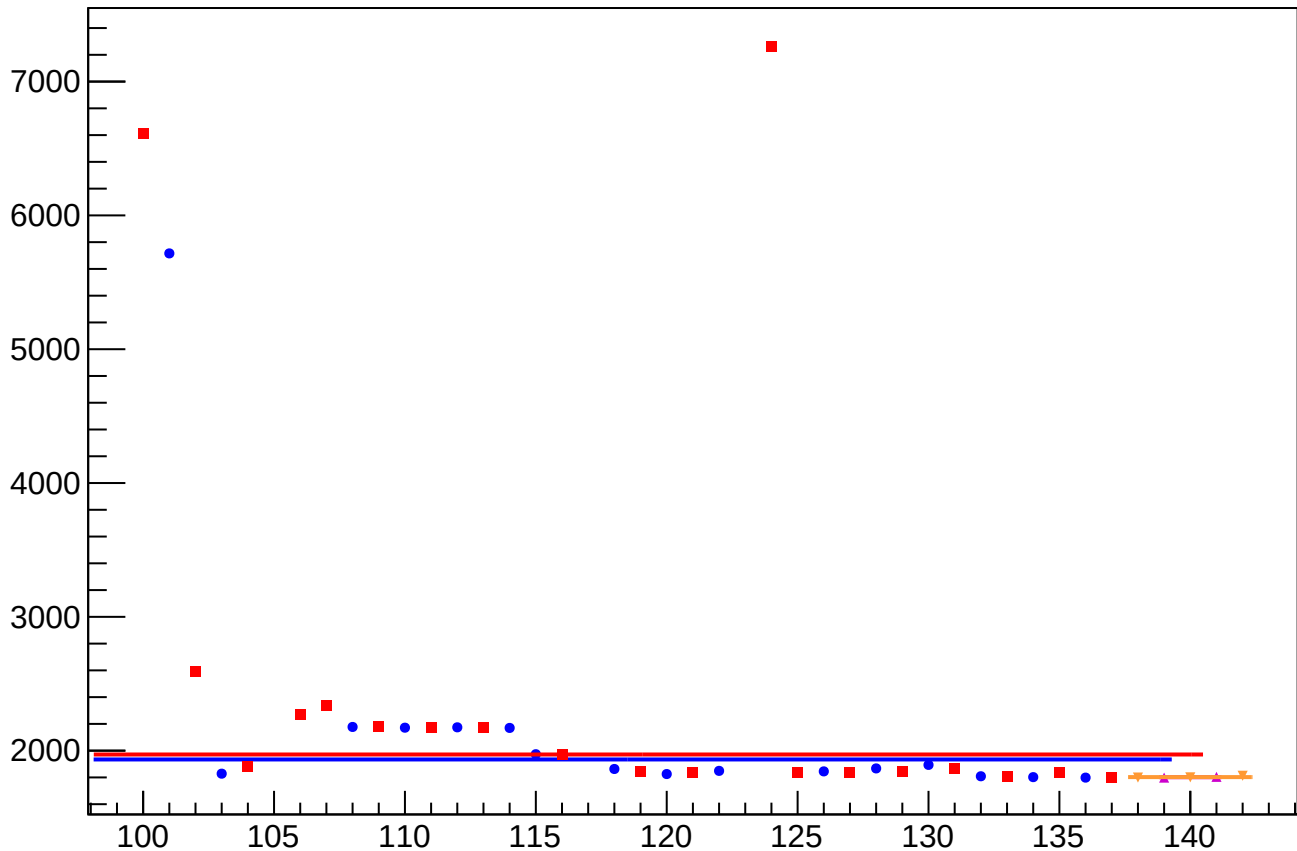
Right: -445.295+/-520.310 χ^2/NDF : 33.3/34

In: -842.194+/-647.651 χ^2/NDF : 20.2/17

Out: -506.934+/-635.138 χ^2/NDF : 18.9/21

All: -671.294+/-453.470 χ^2/NDF : 39.3/39

cor_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1934.217+/-0.520 χ^2/NDF : 639919.9/15

Left Out: 1802.427+/-0.887 χ^2/NDF :34.1/2

Right Out: 1971.357+/-0.521 χ^2/NDF : 383176.6/18

Left In: 1801.639+/-0.968 χ^2/NDF :8.9/1

Left: 1802.068+/-0.654 χ^2/NDF : 43.3/4

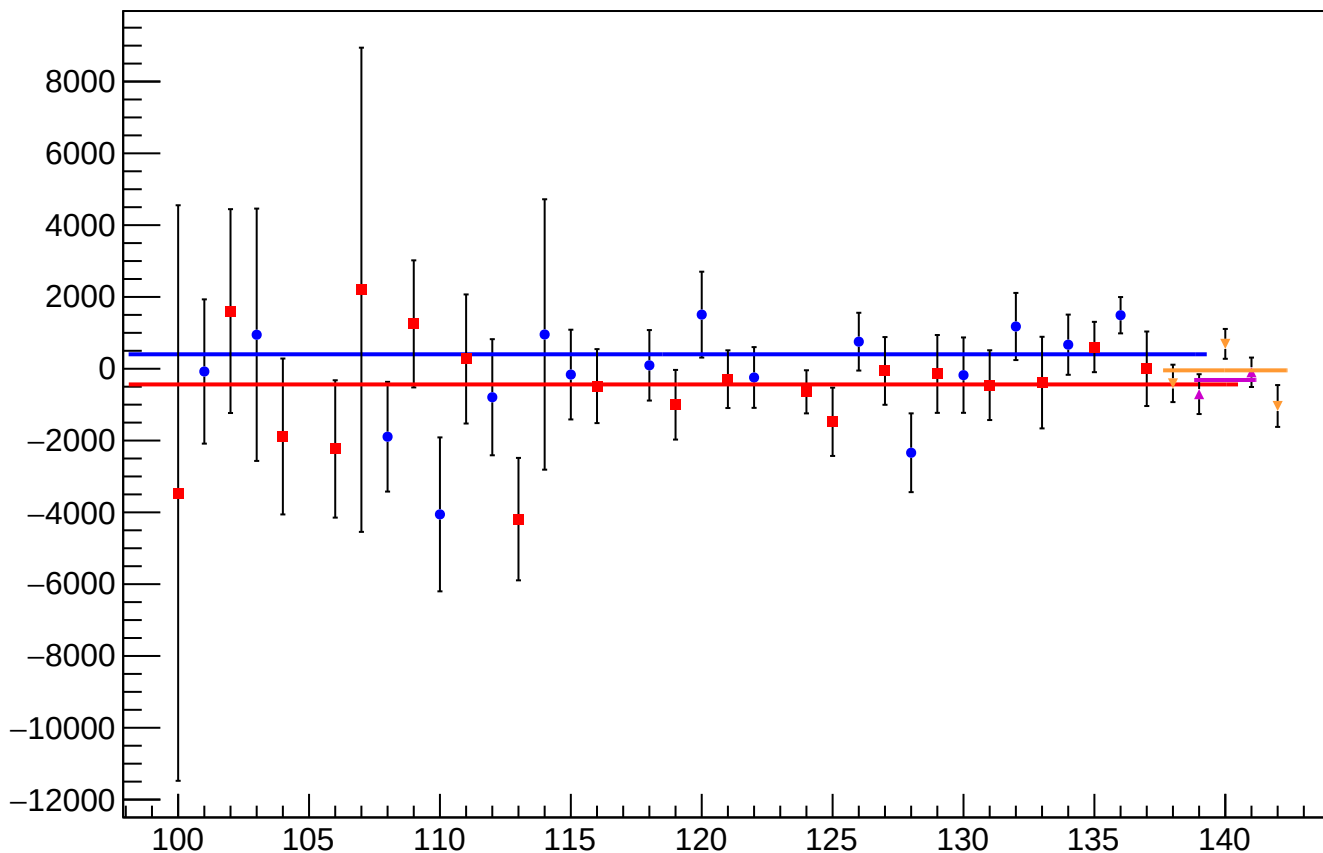
Right: 1952.750+/-0.368 χ^2/NDF : 1025644.1/34

In: 1904.546+/-0.458 χ^2/NDF :654487.2/17

Out: 1928.042+/-0.449 χ^2/NDF :410186.4/21

All: 1916.523+/-0.321 χ^2/NDF : 1066015.4/39

asym_at1_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 402.701 $\pm$ 258.564 χ^2 /NDF: 21.1/15

Left Out: -44.503 $\pm$ 283.829 χ^2 /NDF:6.5/2

Right Out: -436.691 $\pm$ 252.672 χ^2 /NDF: 12.4/18

Left In: -313.115 $\pm$ 329.491 χ^2 /NDF:0.8/1

Left: -158.921 $\pm$ 215.044 χ^2 /NDF: 7.7/4

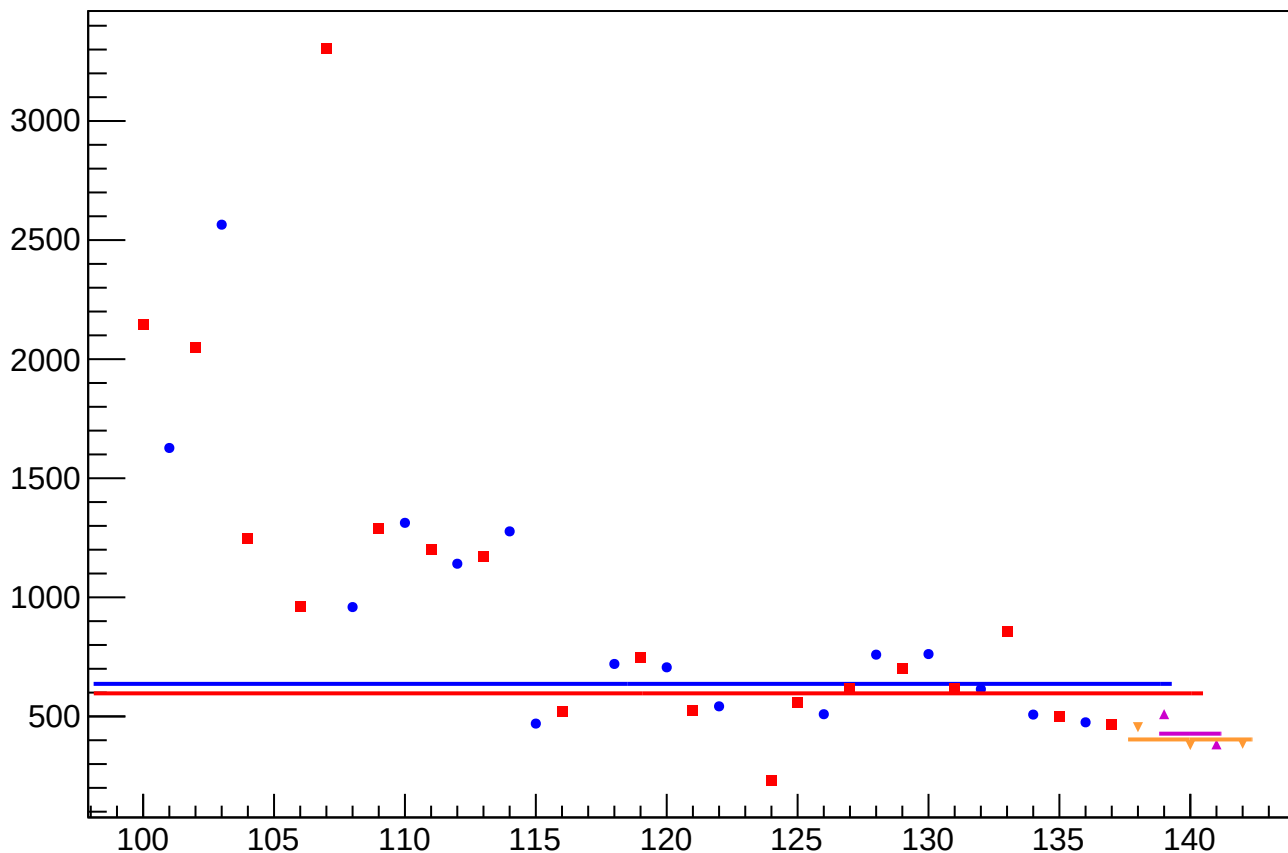
Right: -26.666 $\pm$ 180.713 χ^2 /NDF: 38.9/34

In: 129.892 $\pm$ 203.410 χ^2 /NDF:24.8/17

Out: -263.297 $\pm$ 188.724 χ^2 /NDF:20.0/21

All: -81.407 $\pm$ 138.349 χ^2 /NDF: 46.8/39

asym_at1_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 636.698 $\pm$ 0.183 χ^2 /NDF: 2066022.1/15

Left Out: 403.287 $\pm$ 0.201 χ^2 /NDF: 27846.7/2

Right Out: 596.862 $\pm$ 0.179 χ^2 /NDF: 2930443.7/18

Left In: 427.566 $\pm$ 0.233 χ^2 /NDF: 67634.1/1

Left: 413.629 $\pm$ 0.152 χ^2 /NDF: 101714.4/4

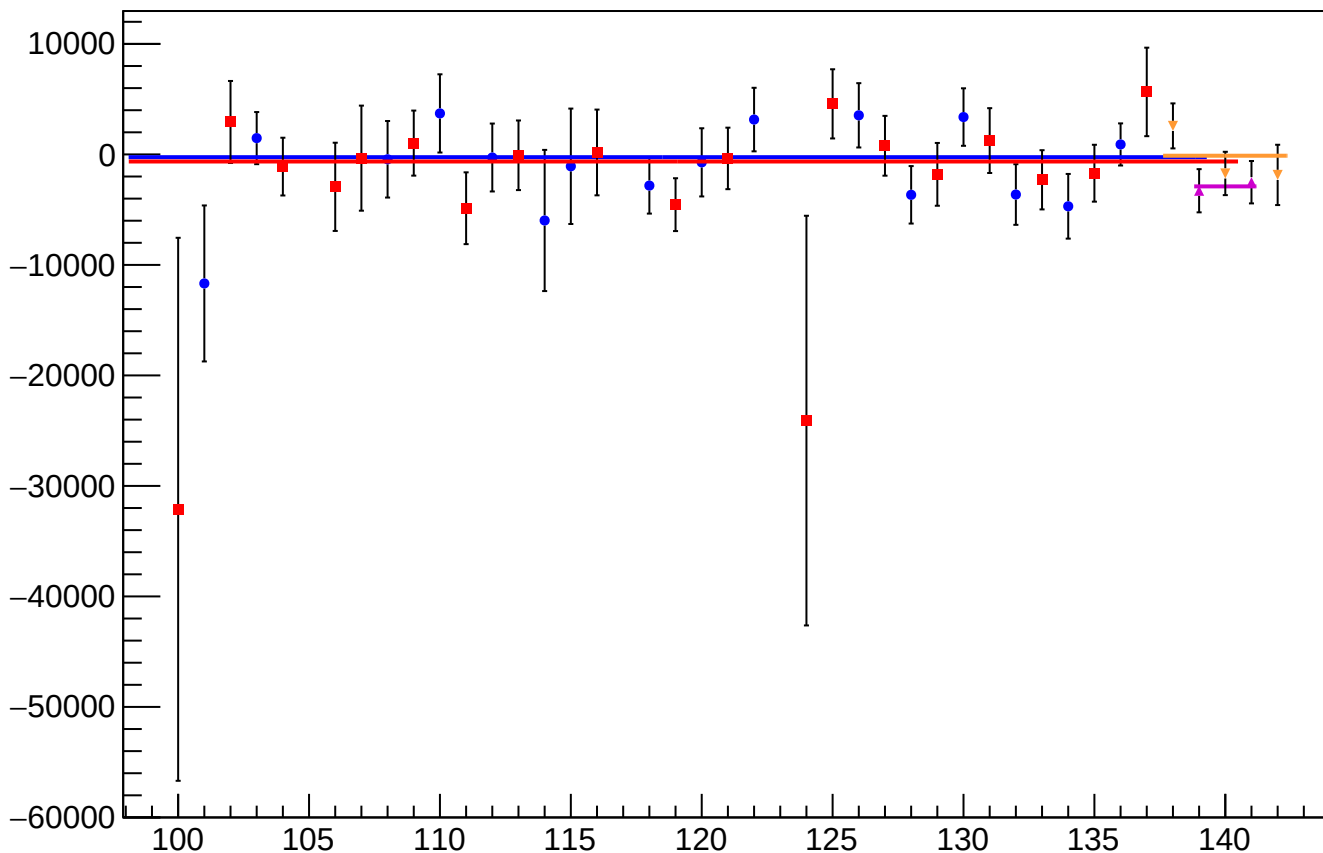
Right: 616.321 $\pm$ 0.128 χ^2 /NDF: 5020749.4/34

In: 556.995 $\pm$ 0.144 χ^2 /NDF: 2632303.0/17

Out: 511.278 $\pm$ 0.133 χ^2 /NDF: 3477272.6/21

All: 532.427 $\pm$ 0.098 χ^2 /NDF: 6163865.9/39

eigen_cor_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -250.487 ± 735.112 $\chi^2/\text{NDF}: 17.2/15$

Left Out: -118.538 ± 1254.297 $\chi^2/\text{NDF}: 2.8/2$

Right Out: -640.865 ± 736.549 $\chi^2/\text{NDF}: 16.0/18$

Left In: -2894.450 ± 1369.039 $\chi^2/\text{NDF}: 0.1/1$

Left: -1385.310 ± 924.831 $\chi^2/\text{NDF}: 5.1/4$

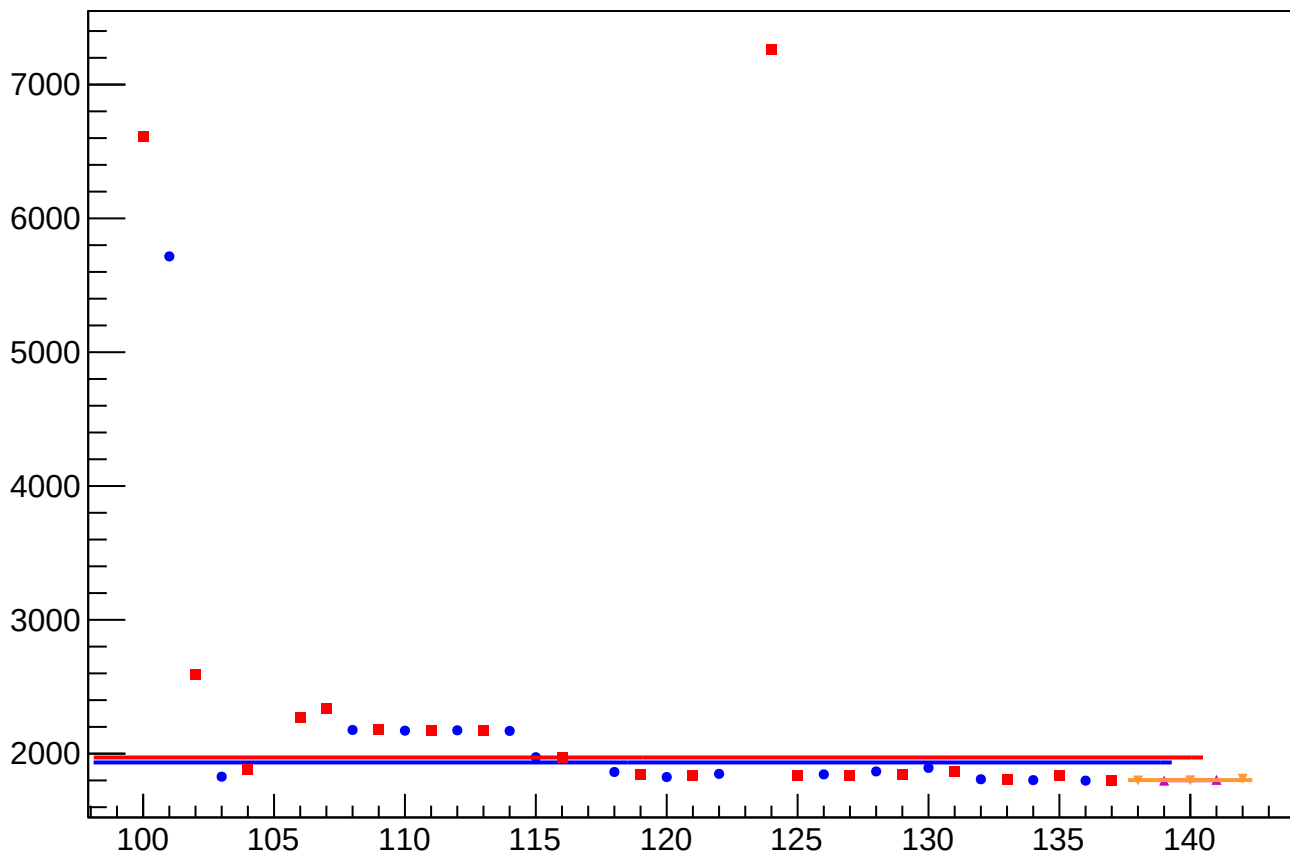
Right: -445.295 ± 520.310 $\chi^2/\text{NDF}: 33.3/34$

In: -842.194 ± 647.651 $\chi^2/\text{NDF}: 20.2/17$

Out: -506.934 ± 635.138 $\chi^2/\text{NDF}: 18.9/21$

All: -671.294 ± 453.470 $\chi^2/\text{NDF}: 39.3/39$

eigen_cor_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1934.217+/-0.520 χ^2/NDF : 639919.9/15

Left Out: 1802.427+/-0.887 χ^2/NDF : 34.1/2

Right Out: 1971.357+/-0.521 χ^2/NDF : 383176.6/18

Left In: 1801.639+/-0.968 χ^2/NDF : 8.9/1

Left: 1802.068+/-0.654 χ^2/NDF : 43.3/4

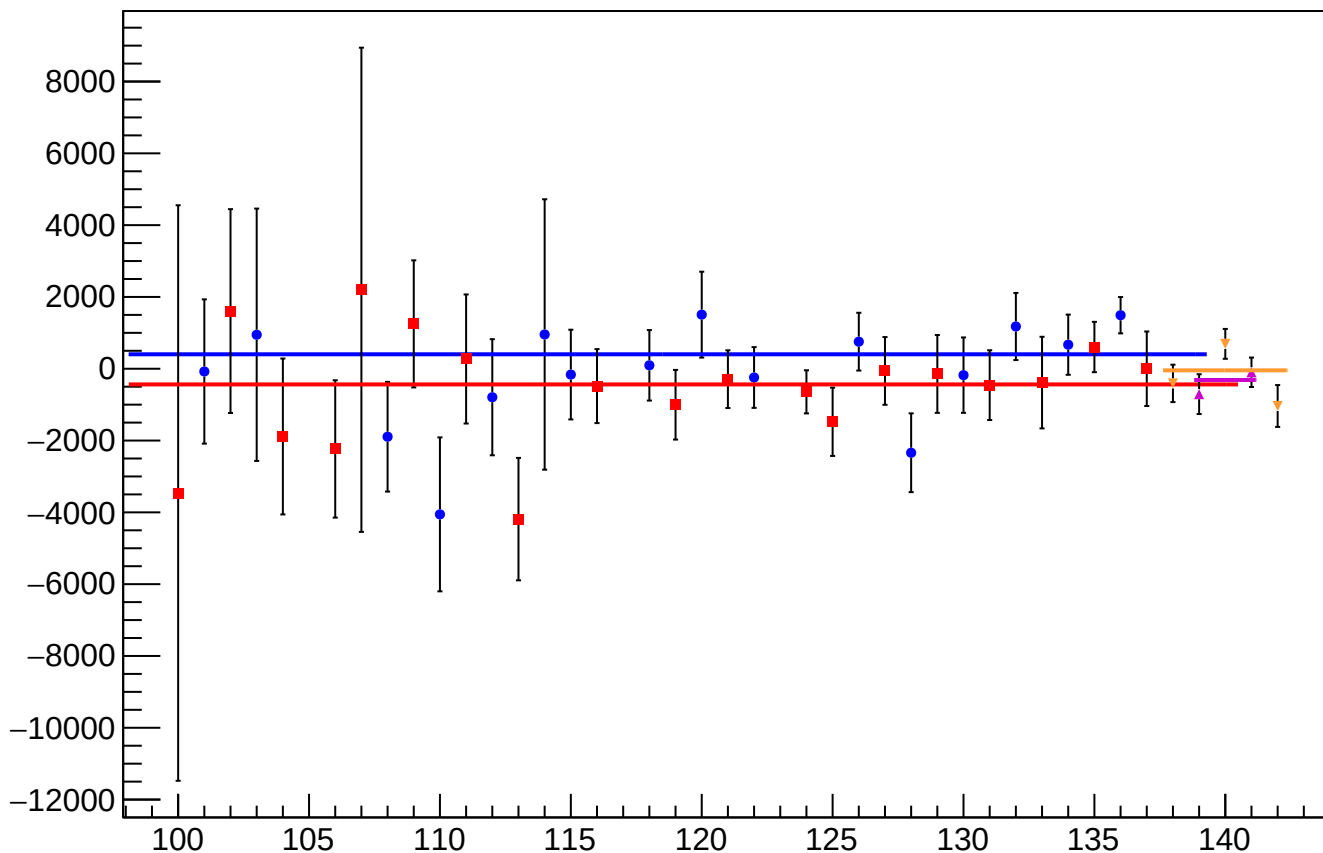
Right: 1952.750+/-0.368 χ^2/NDF : 1025644.1/34

In: 1904.546+/-0.458 χ^2/NDF : 654487.2/17

Out: 1928.042+/-0.449 χ^2/NDF : 410186.4/21

All: 1916.523+/-0.321 χ^2/NDF : 1066015.4/39

asym_at1_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 402.701+/-258.564 χ^2/NDF : 21.1/15

Left Out: -44.503+/-283.829 χ^2/NDF : 6.5/2

Right Out: -436.691+/-252.672 χ^2/NDF : 12.4/18

Left In: -313.115+/-329.491 χ^2/NDF : 0.8/1

Left: -158.921+/-215.044 χ^2/NDF : 7.7/4

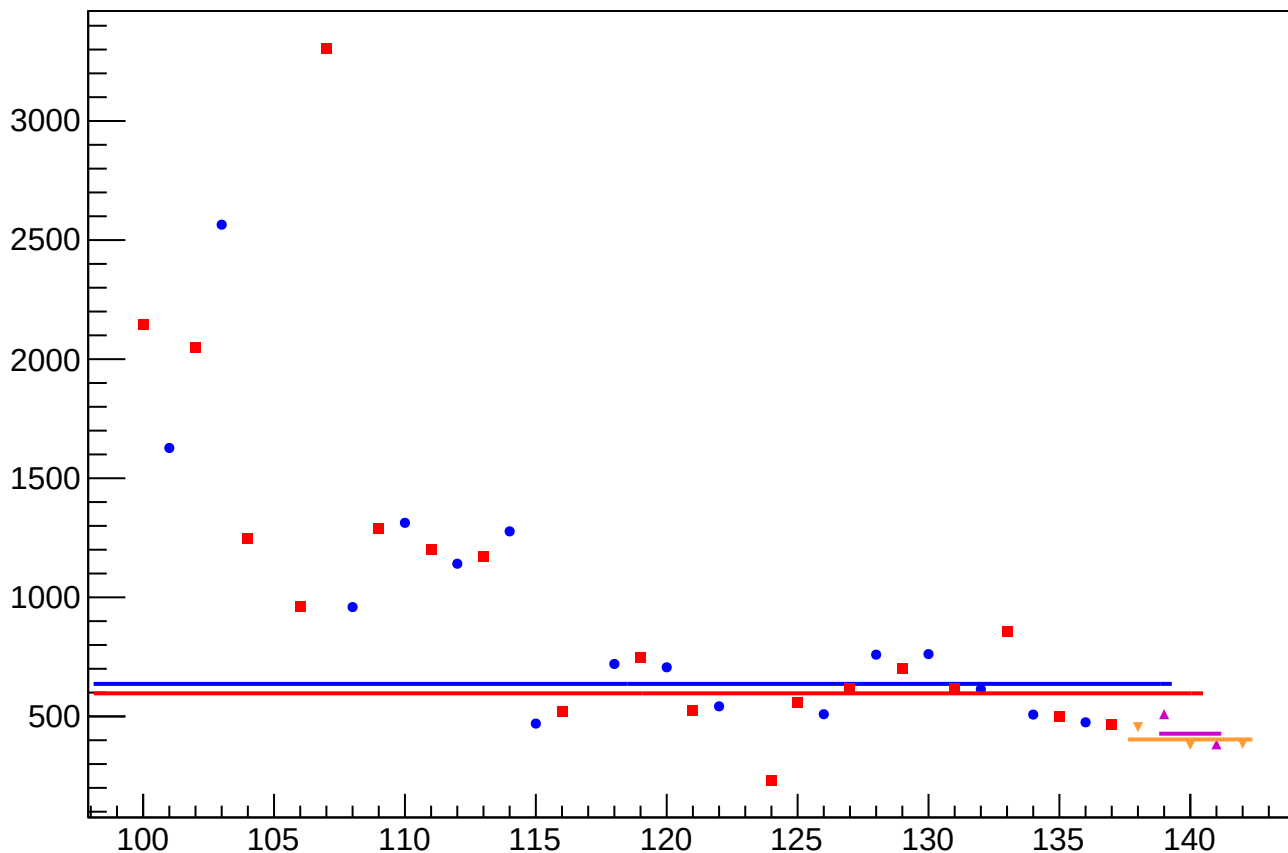
Right: -26.666+/-180.713 χ^2/NDF : 38.9/34

In: 129.892+/-203.410 χ^2/NDF : 24.8/17

Out: -263.297+/-188.724 χ^2/NDF : 20.0/21

All: -81.407+/-138.349 χ^2/NDF : 46.8/39

asym_at1_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 636.698 $\pm$ 0.183 χ^2 /NDF: 2066022.1/15

Left Out: 403.287 $\pm$ 0.201 χ^2 /NDF:27846.7/2

Right Out: 596.862 $\pm$ 0.179 χ^2 /NDF: 2930443.7/18

Left In: 427.566 $\pm$ 0.233 χ^2 /NDF:67634.1/1

Left: 413.629 $\pm$ 0.152 χ^2 /NDF: 101714.4/4

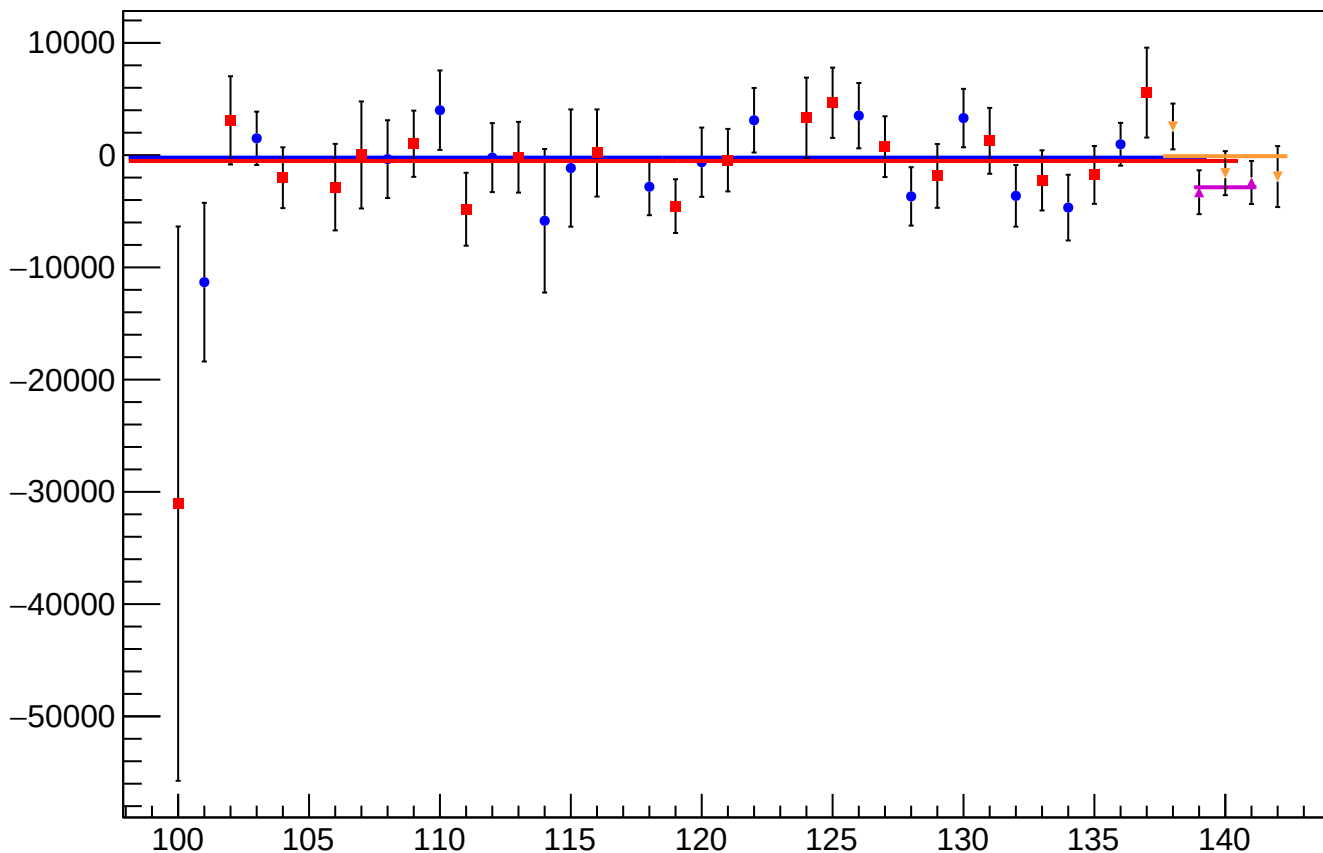
Right: 616.321 $\pm$ 0.128 χ^2 /NDF: 5020749.4/34

In: 556.995 $\pm$ 0.144 χ^2 /NDF:2632303.0/17

Out: 511.278 $\pm$ 0.133 χ^2 /NDF:3477272.6/21

All: 532.427 $\pm$ 0.098 χ^2 /NDF: 6163865.9/39

dit_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -220.393+/-735.888 χ^2/NDF : 17.1/15

Left Out: -94.507+/-1253.481 χ^2/NDF : 2.7/2

Right Out: -520.265+/-724.980 χ^2/NDF : 15.6/18

Left In: -2861.193+/-1369.454 χ^2/NDF : 0.1/1

Left: -1355.760+/-924.631 χ^2/NDF : 5.1/4

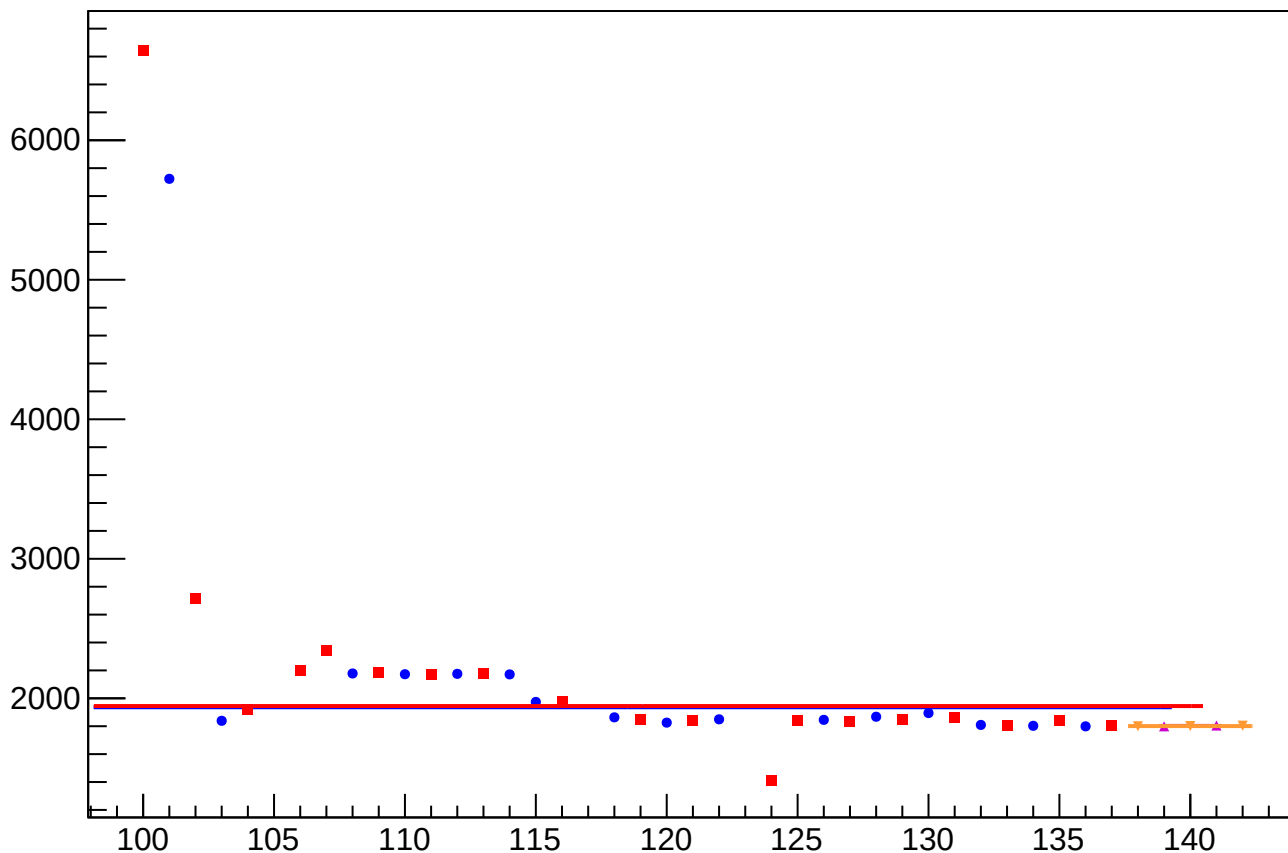
Right: -372.568+/-516.452 χ^2/NDF : 32.8/34

In: -812.083+/-648.226 χ^2/NDF : 20.1/17

Out: -413.542+/-627.573 χ^2/NDF : 18.4/21

All: -606.362+/-450.886 χ^2/NDF : 38.7/39

dit_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1935.974 $\pm$ 0.520 χ^2 /NDF: 639808.0/15

Left Out: 1801.026 $\pm$ 0.886 χ^2 /NDF:3.0/2

Right Out: 1944.495 $\pm$ 0.513 χ^2 /NDF: 276223.6/18

Left In: 1802.185 $\pm$ 0.968 χ^2 /NDF:8.7/1

Left: 1801.554 $\pm$ 0.654 χ^2 /NDF: 12.4/4

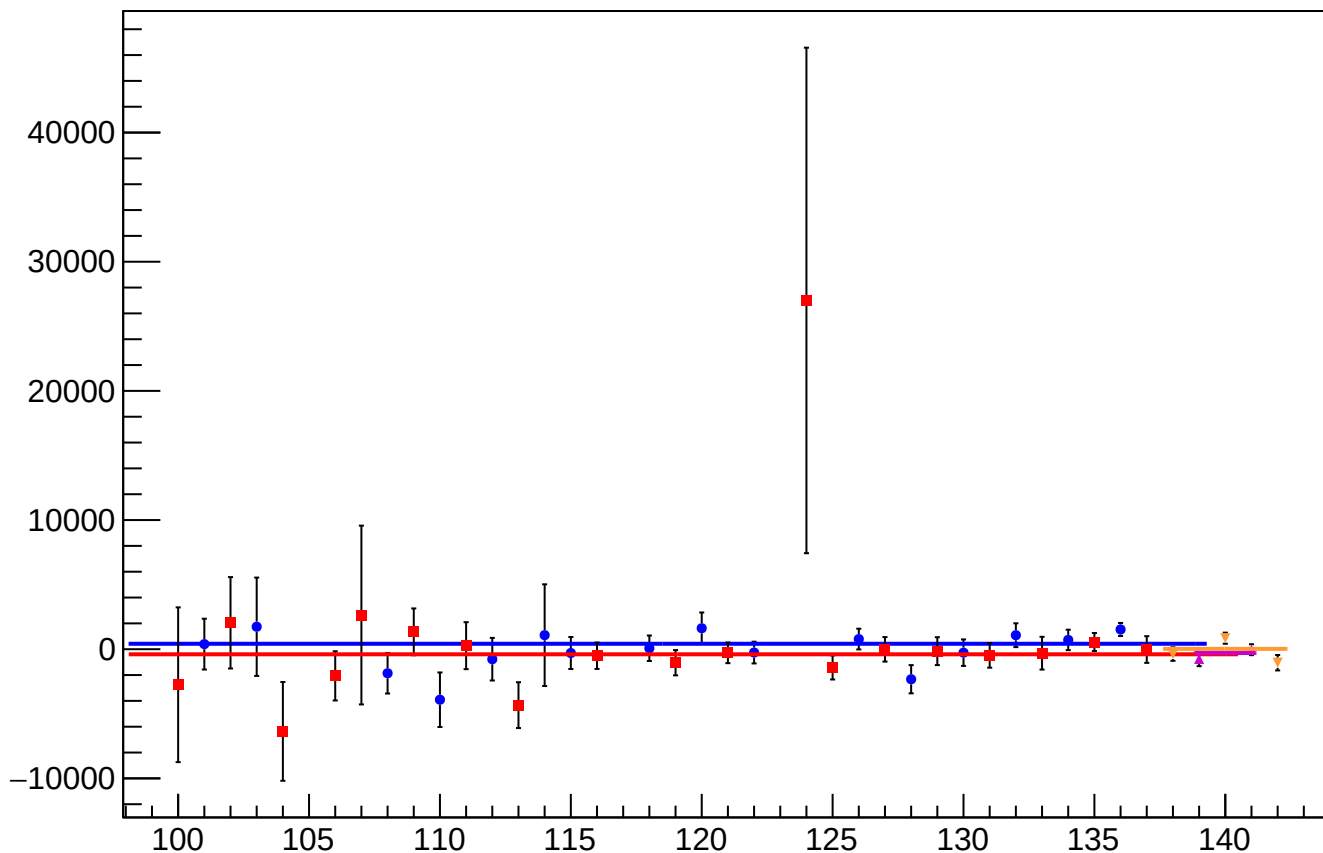
Right: 1940.298 $\pm$ 0.365 χ^2 /NDF: 916167.7/34

In: 1905.998 $\pm$ 0.458 χ^2 /NDF:654628.5/17

Out: 1908.532 $\pm$ 0.444 χ^2 /NDF:295859.5/21

All: 1907.306 $\pm$ 0.319 χ^2 /NDF: 950503.8/39

asym_at1_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 421.145 ± 256.749 $\chi^2/\text{NDF}: 21.5/15$

Left Out: 27.882 ± 290.063 $\chi^2/\text{NDF}: 7.5/2$

Right Out: -393.590 ± 279.562 $\chi^2/\text{NDF}: 15.9/18$

Left In: -293.891 ± 337.322 $\chi^2/\text{NDF}: 1.0/1$

Left: -108.903 ± 219.932 $\chi^2/\text{NDF}: 9.1/4$

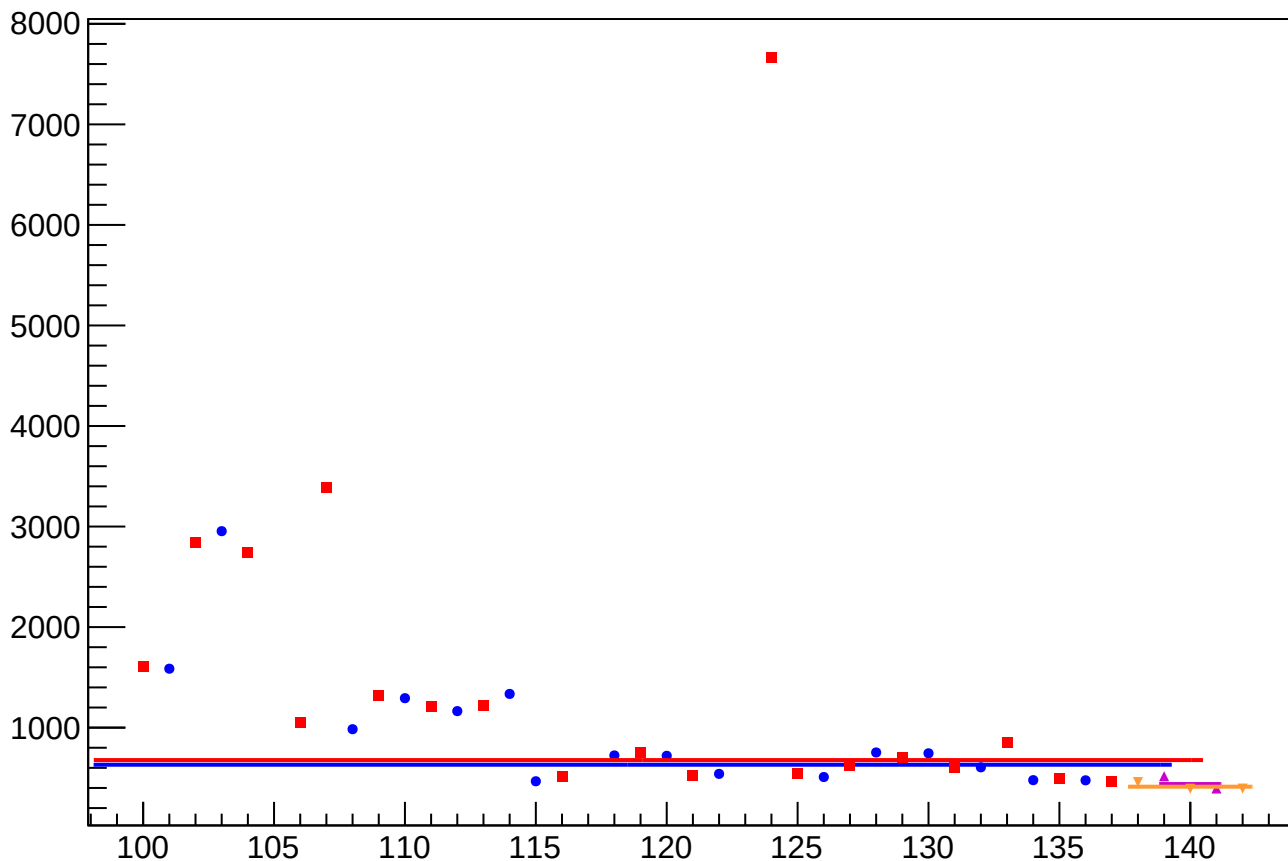
Right: 48.371 ± 189.101 $\chi^2/\text{NDF}: 41.9/34$

In: 158.854 ± 204.302 $\chi^2/\text{NDF}: 25.4/17$

Out: -190.621 ± 201.290 $\chi^2/\text{NDF}: 24.5/21$

All: -18.478 ± 143.387 $\chi^2/\text{NDF}: 51.3/39$

asym_at1_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 631.140+/-0.182 χ^2/NDF : 2234480.1/15

Left Out: 412.572+/-0.205 χ^2/NDF : 21624.1/2

Right Out: 677.438+/-0.198 χ^2/NDF : 3081569.8/18

Left In: 438.801+/-0.239 χ^2/NDF : 60318.1/1

Left: 423.722+/-0.156 χ^2/NDF : 88894.2/4

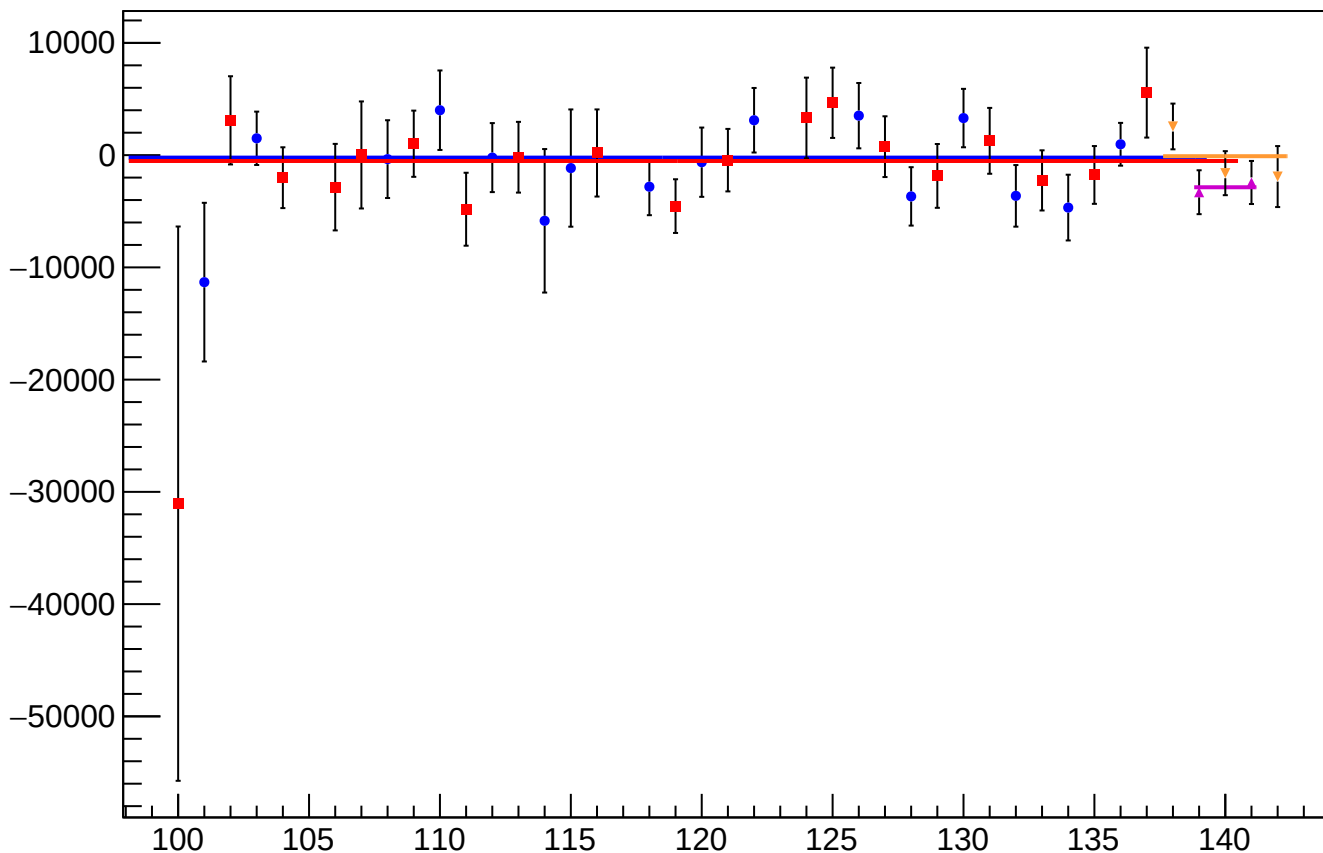
Right: 652.323+/-0.134 χ^2/NDF : 5345805.1/34

In: 560.586+/-0.144 χ^2/NDF : 2706514.6/17

Out: 549.886+/-0.142 χ^2/NDF : 3967733.8/21

All: 555.156+/-0.101 χ^2/NDF : 6677032.2/39

eigen_dit_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -220.393+/-735.888 χ^2/NDF : 17.1/15

Left Out: -94.508+/-1253.481 χ^2/NDF : 2.7/2

Right Out: -520.265+/-724.980 χ^2/NDF : 15.6/18

Left In: -2861.193+/-1369.454 χ^2/NDF : 0.1/1

Left: -1355.760+/-924.631 χ^2/NDF : 5.1/4

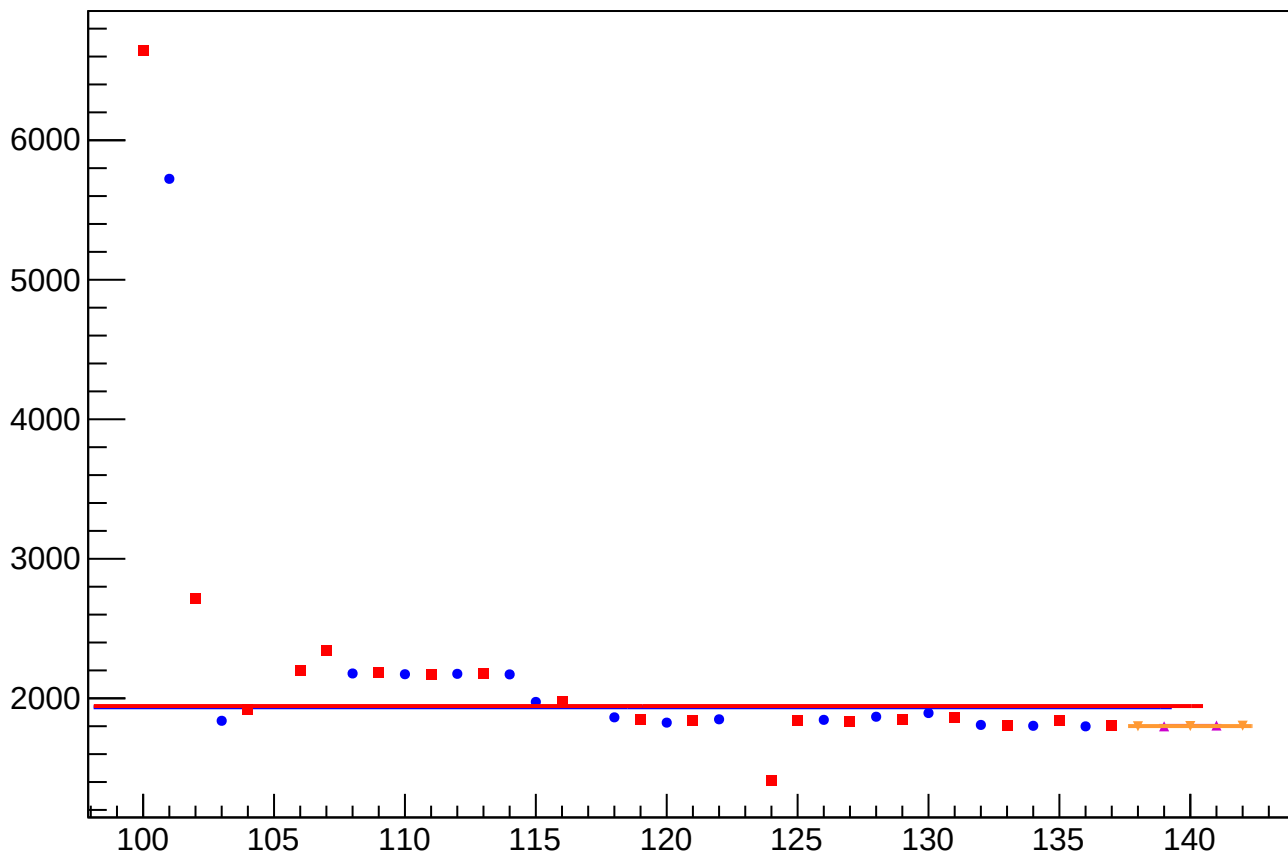
Right: -372.568+/-516.452 χ^2/NDF : 32.8/34

In: -812.083+/-648.226 χ^2/NDF : 20.1/17

Out: -413.543+/-627.573 χ^2/NDF : 18.4/21

All: -606.363+/-450.886 χ^2/NDF : 38.7/39

eigen_dit_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1935.974+/-0.520 χ^2/NDF : 639808.0/15

Left Out: 1801.026+/-0.886 χ^2/NDF : 3.0/2

Right Out: 1944.495+/-0.513 χ^2/NDF : 276223.5/18

Left In: 1802.185+/-0.968 χ^2/NDF : 8.7/1

Left: 1801.554+/-0.654 χ^2/NDF : 12.4/4

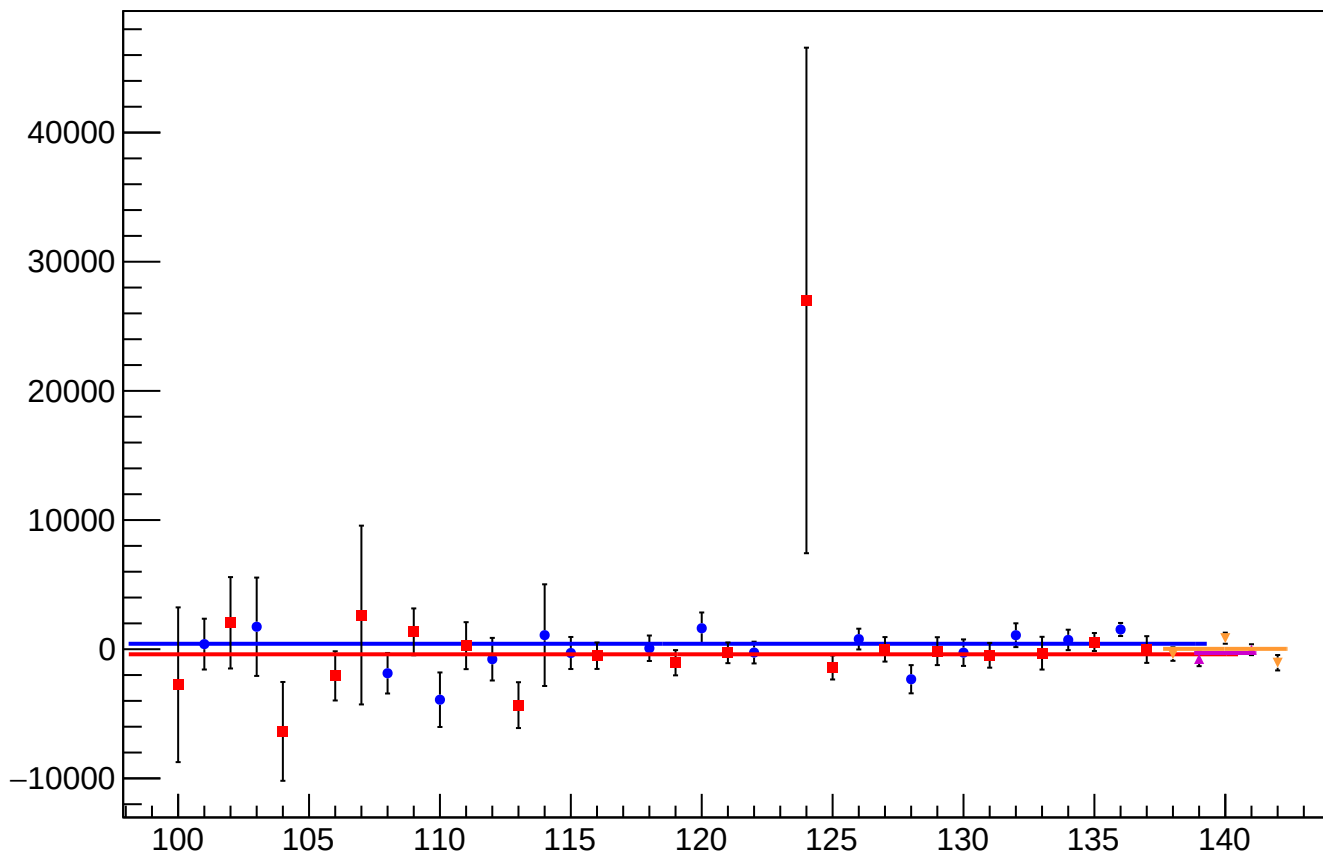
Right: 1940.298+/-0.365 χ^2/NDF : 916167.5/34

In: 1905.998+/-0.458 χ^2/NDF : 654628.5/17

Out: 1908.532+/-0.444 χ^2/NDF : 295859.3/21

All: 1907.306+/-0.319 χ^2/NDF : 950503.6/39

asym_at1_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 421.144 ± 256.749 χ^2/NDF : 21.5/15

Left Out: 27.884 ± 290.063 χ^2/NDF : 7.5/2

Right Out: -393.591 ± 279.562 χ^2/NDF : 15.9/18

Left In: -293.891 ± 337.321 χ^2/NDF : 1.0/1

Left: -108.902 ± 219.932 χ^2/NDF : 9.1/4

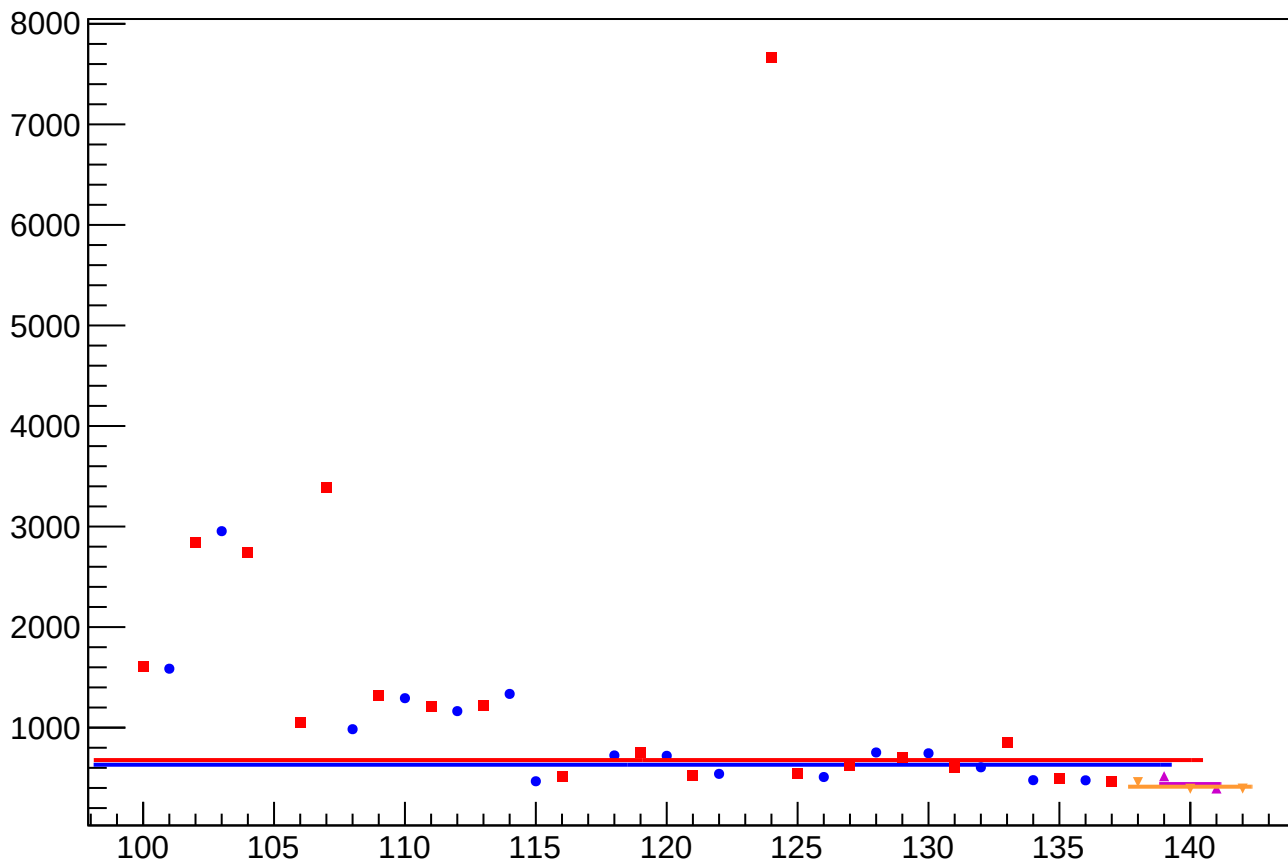
Right: 48.371 ± 189.101 χ^2/NDF : 41.9/34

In: 158.853 ± 204.302 χ^2/NDF : 25.4/17

Out: -190.620 ± 201.290 χ^2/NDF : 24.5/21

All: -18.478 ± 143.386 χ^2/NDF : 51.3/39

asym_at1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 631.139+/-0.182 χ^2/NDF : 2234479.1/15

Left Out: 412.572+/-0.205 χ^2/NDF :21623.2/2

Right Out: 677.437+/-0.198 χ^2/NDF : 3081570.5/18

Left In: 438.801+/-0.239 χ^2/NDF :60318.5/1

Left: 423.722+/-0.156 χ^2/NDF : 88893.4/4

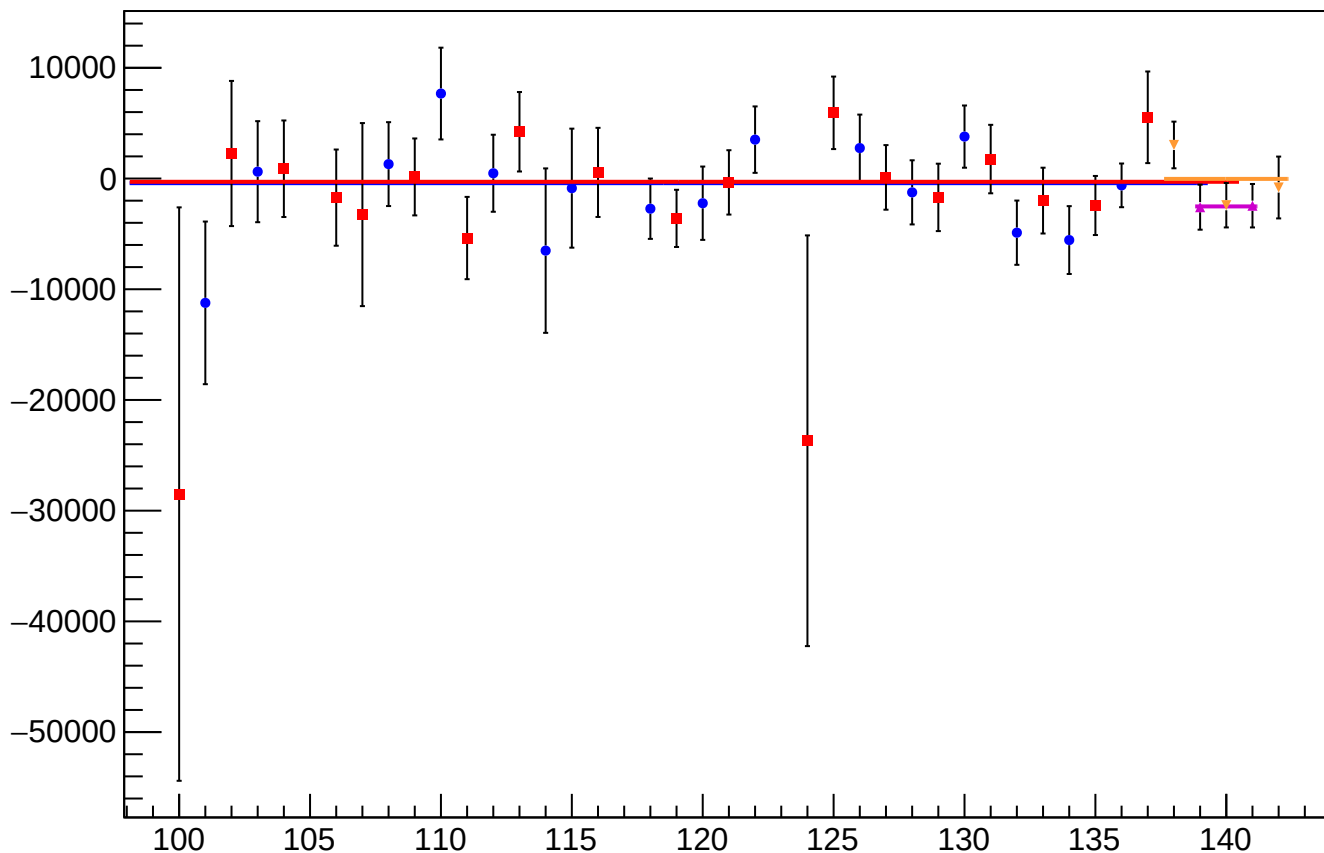
Right: 652.323+/-0.134 χ^2/NDF : 5345804.8/34

In: 560.585+/-0.144 χ^2/NDF :2706517.8/17

Out: 549.885+/-0.142 χ^2/NDF :3967734.7/21

All: 555.156+/-0.101 χ^2/NDF : 6677036.1/39

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -417.662+/-815.370 χ^2/NDF : 18.3/15

Left Out: -33.073+/-1288.996 χ^2/NDF : 3.6/2

Right Out: -294.527+/-831.610 χ^2/NDF : 15.6/18

Left In: -2518.900+/-1412.251 χ^2/NDF : 0.0/1

Left: -1162.797+/-952.056 χ^2/NDF : 5.3/4

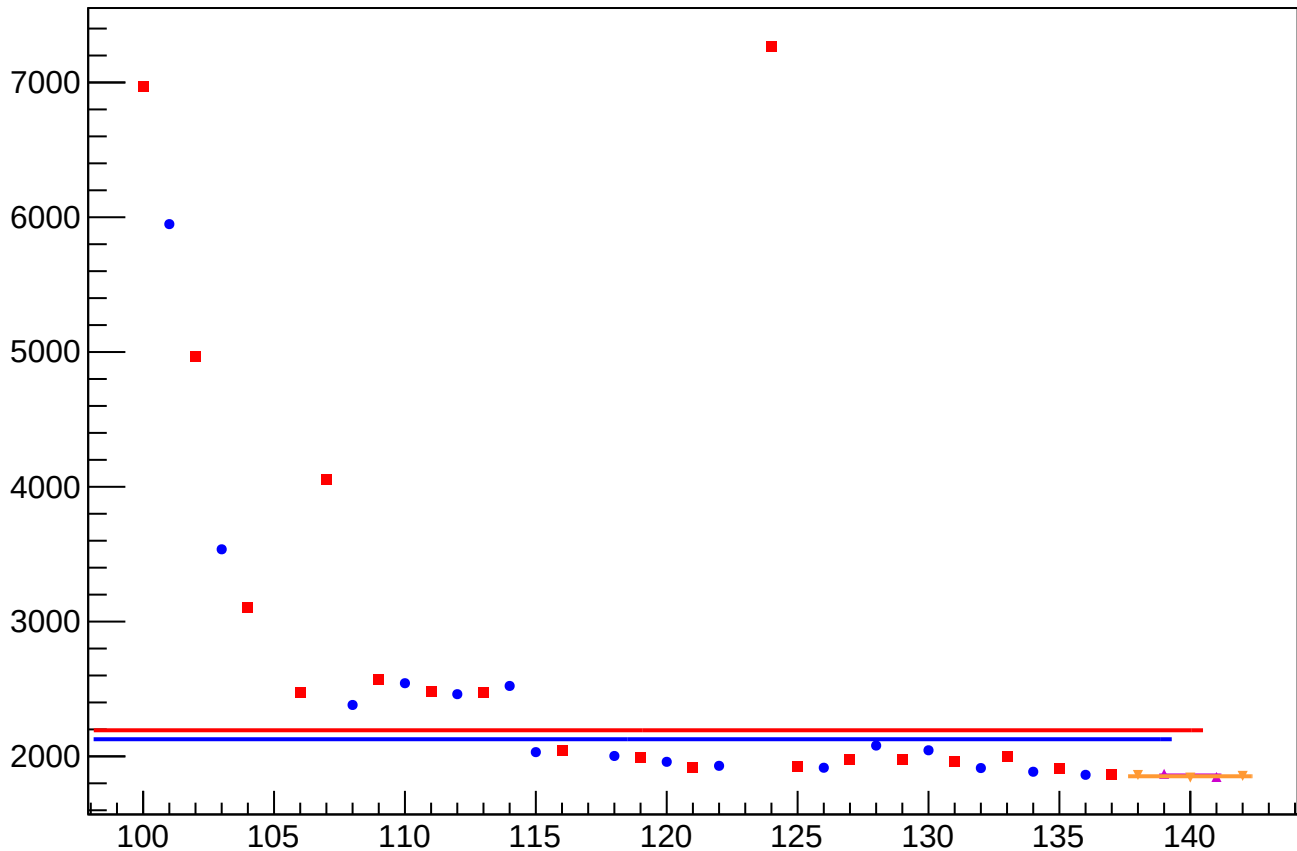
Right: -357.308+/-582.210 χ^2/NDF : 34.0/34

In: -942.977+/-706.129 χ^2/NDF : 20.0/17

Out: -217.685+/-698.799 χ^2/NDF : 19.3/21

All: -576.547+/-496.697 χ^2/NDF : 39.8/39

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2127.041+/-0.577 χ^2/NDF : 875078.1/15

Left Out: 1852.252+/-0.911 χ^2/NDF : 90.2/2

Right Out: 2193.560+/-0.588 χ^2/NDF : 942581.2/18

Left In: 1858.462+/-0.999 χ^2/NDF : 134.1/1

Left: 1855.074+/-0.673 χ^2/NDF : 245.4/4

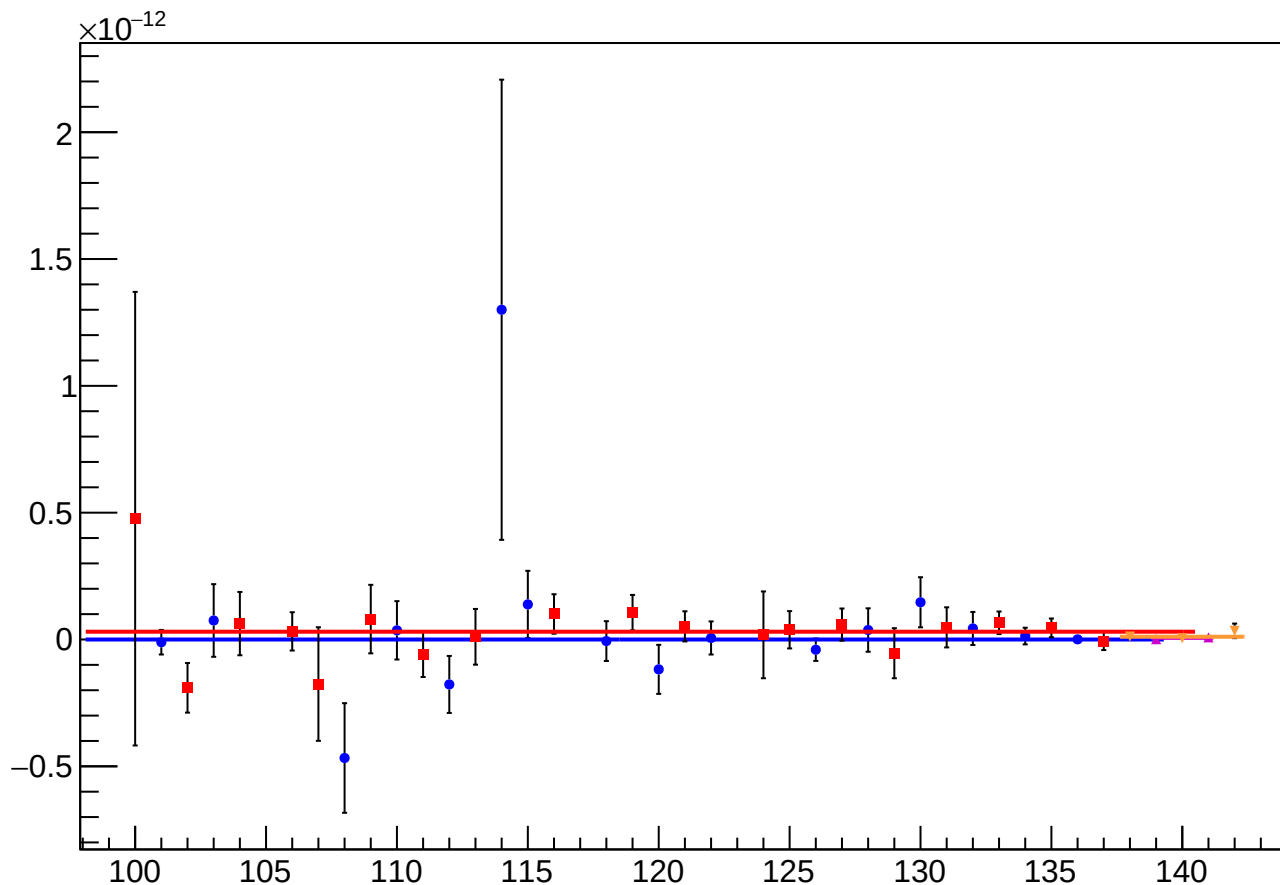
Right: 2159.645+/-0.412 χ^2/NDF : 1824183.5/34

In: 2059.896+/-0.499 χ^2/NDF : 929463.6/17

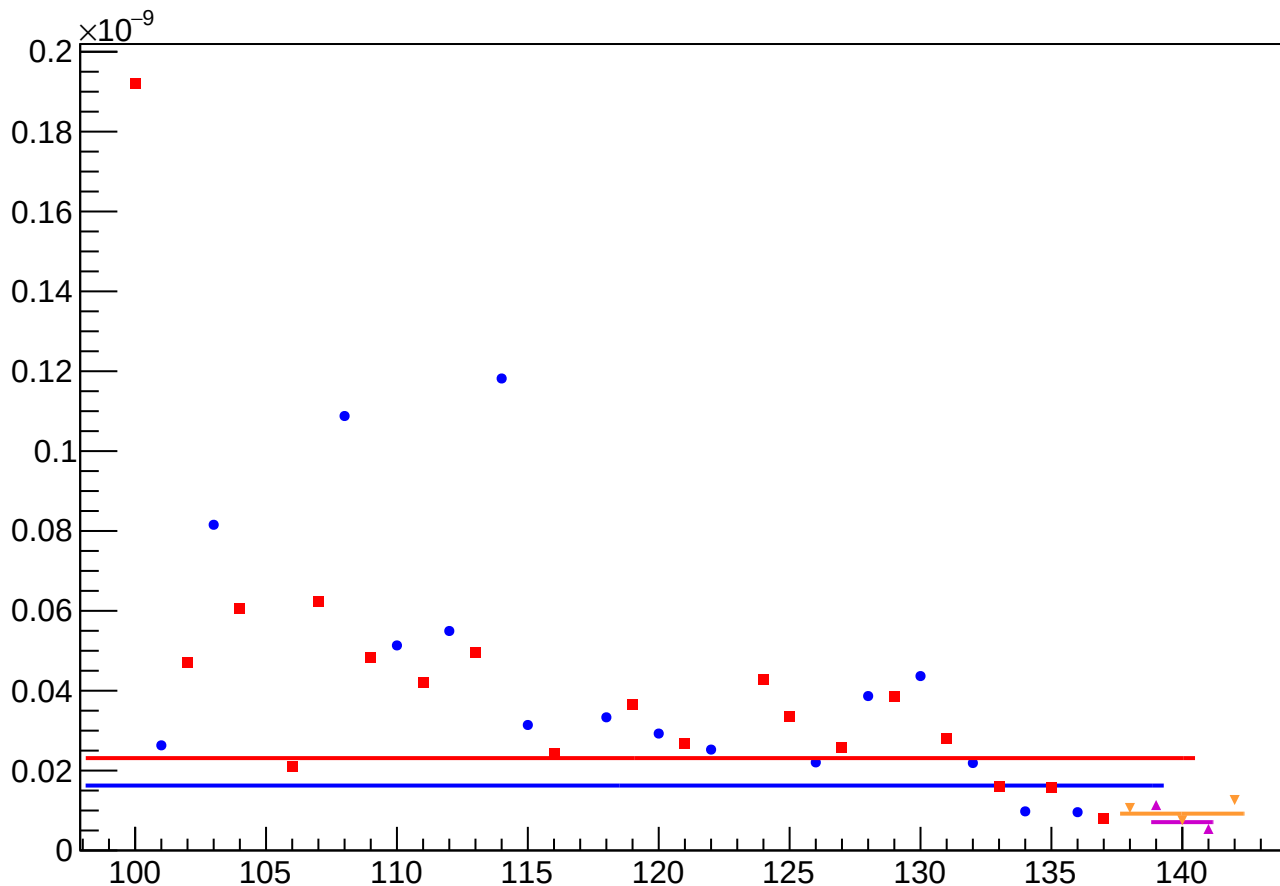
Out: 2093.250+/-0.494 χ^2/NDF : 1041682.6/21

All: 2076.747+/-0.351 χ^2/NDF : 1973400.6/39

asym_at1_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



asym_at1_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 2286703.8/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 72410.1/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 1411720.5/18

Left In: 0.000 ± 0.000 χ^2/NDF : 160347.5/1

Left: 0.000 ± 0.000 χ^2/NDF : 280397.6/4

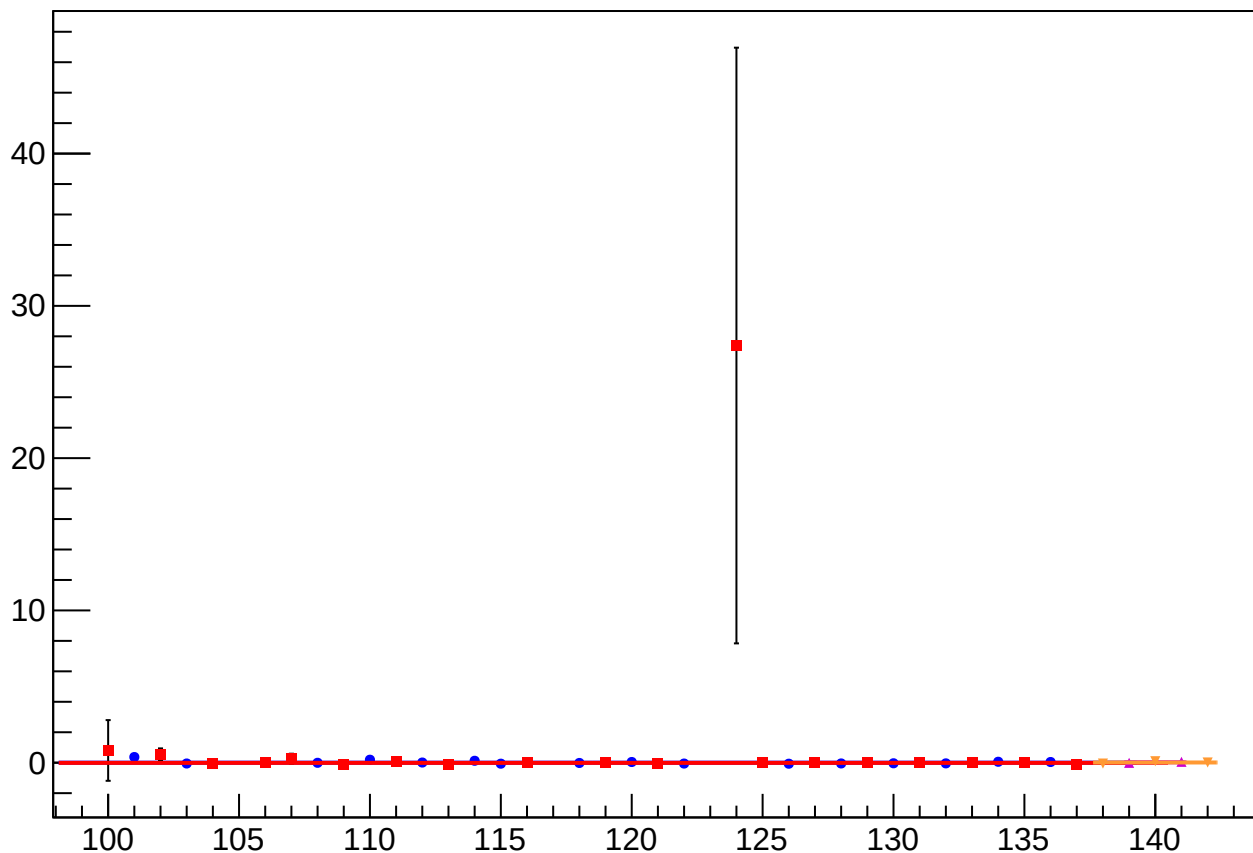
Right: 0.000 ± 0.000 χ^2/NDF : 3942397.7/34

In: 0.000 ± 0.000 χ^2/NDF : 3173043.8/17

Out: 0.000 ± 0.000 χ^2/NDF : 2602817.0/21

All: 0.000 ± 0.000 χ^2/NDF : 5875713.5/39

asym_at1_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.015 χ^2 /NDF: 21.0/15

Left Out: 0.014 $\pm$ 0.024 χ^2 /NDF:8.1/2

Right Out: -0.012 $\pm$ 0.015 χ^2 /NDF: 14.2/18

Left In: 0.029 $\pm$ 0.027 χ^2 /NDF:1.5/1

Left: 0.021 $\pm$ 0.018 χ^2 /NDF: 9.7/4

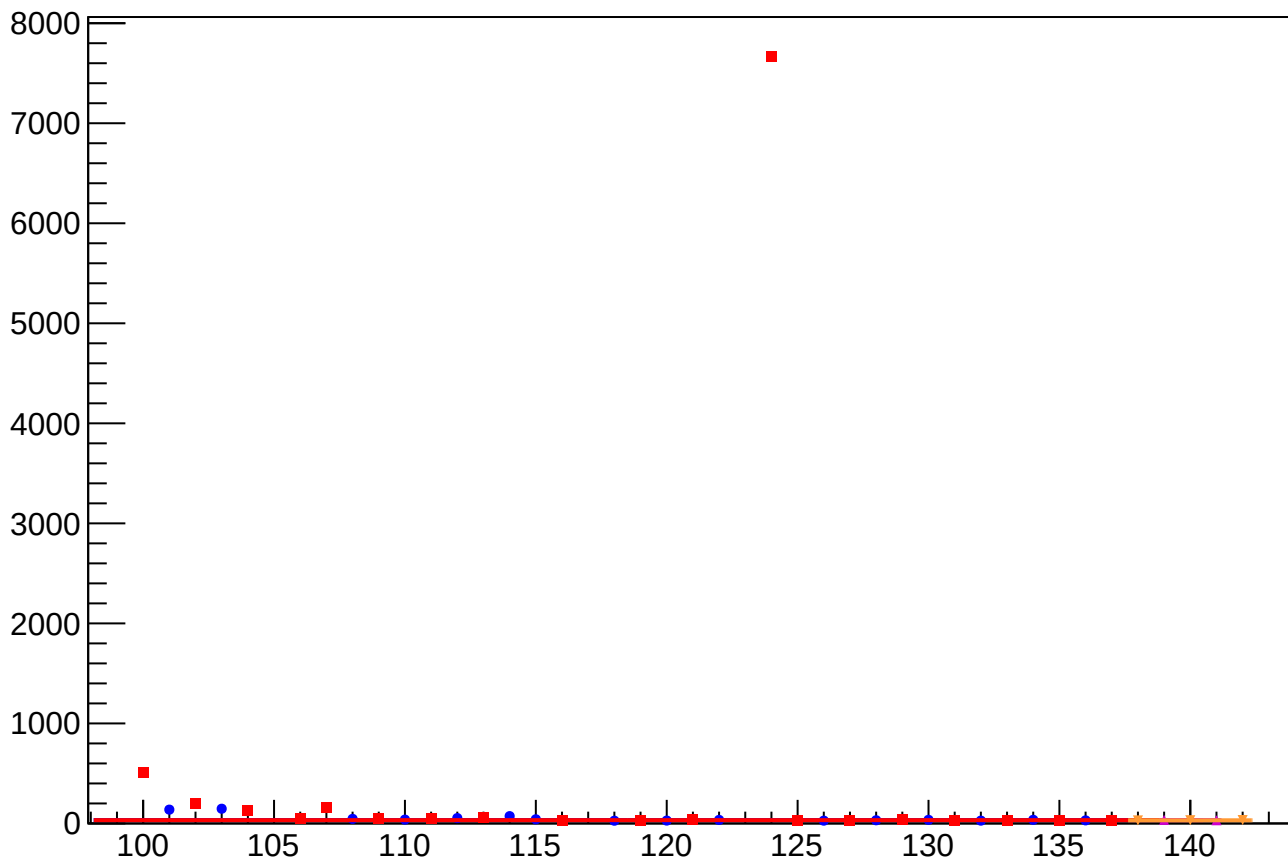
Right: -0.005 $\pm$ 0.010 χ^2 /NDF: 35.6/34

In: 0.008 $\pm$ 0.013 χ^2 /NDF:23.3/17

Out: -0.005 $\pm$ 0.013 χ^2 /NDF:23.1/21

All: 0.001 $\pm$ 0.009 χ^2 /NDF: 46.9/39

asym_at1_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.055+/-0.010 χ^2/NDF : 1717266.1/15

Left Out: 31.688+/-0.017 χ^2/NDF : 6536.4/2

Right Out: 33.084+/-0.011 χ^2/NDF : 2075124.6/18

Left In: 33.865+/-0.019 χ^2/NDF : 9308.3/1

Left: 32.635+/-0.013 χ^2/NDF : 22969.5/4

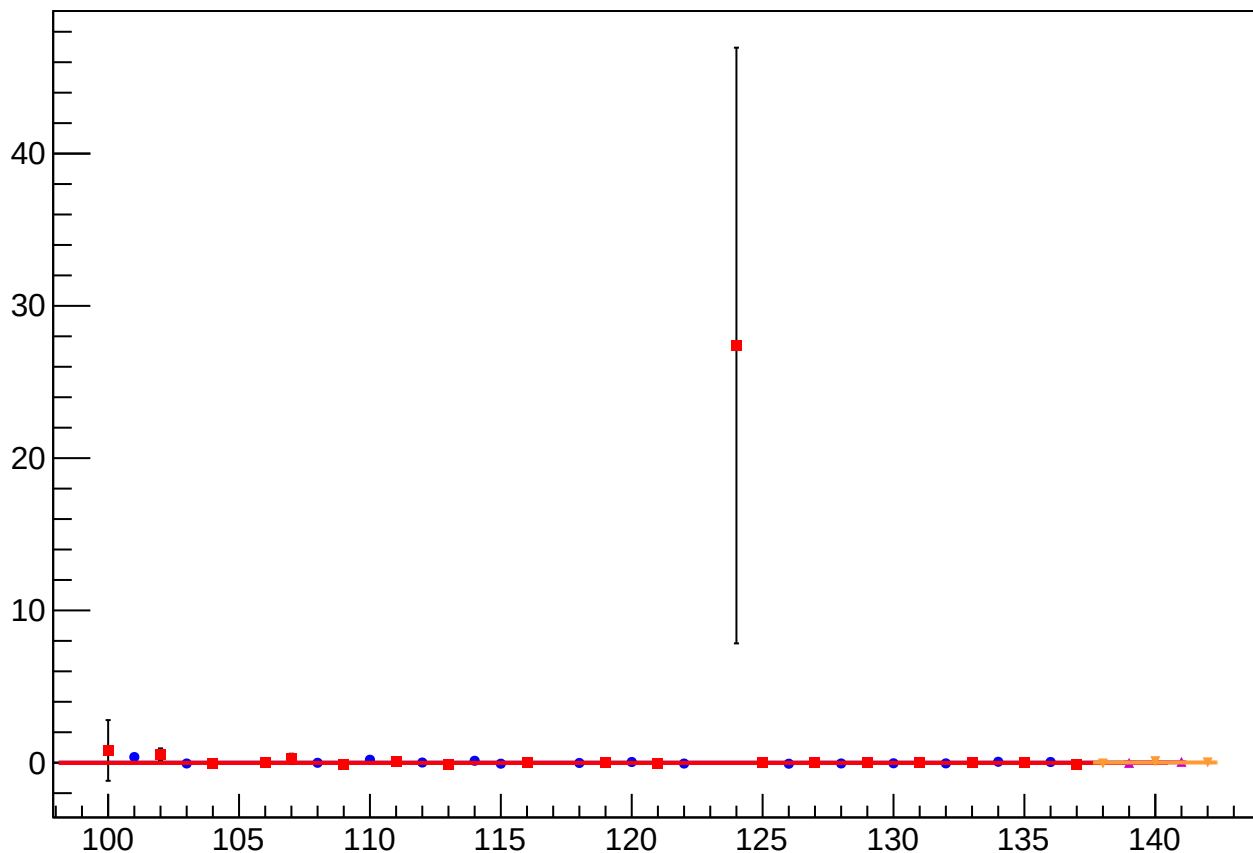
Right: 33.573+/-0.007 χ^2/NDF : 3796696.6/34

In: 34.012+/-0.009 χ^2/NDF : 1726649.4/17

Out: 32.698+/-0.009 χ^2/NDF : 2086531.7/21

All: 33.337+/-0.006 χ^2/NDF : 3823695.3/39

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.015 χ^2 /NDF: 21.0/15

Left Out: 0.014 $\pm$ 0.024 χ^2 /NDF: 8.1/2

Right Out: -0.012 $\pm$ 0.015 χ^2 /NDF: 14.2/18

Left In: 0.029 $\pm$ 0.027 χ^2 /NDF: 1.5/1

Left: 0.021 $\pm$ 0.018 χ^2 /NDF: 9.7/4

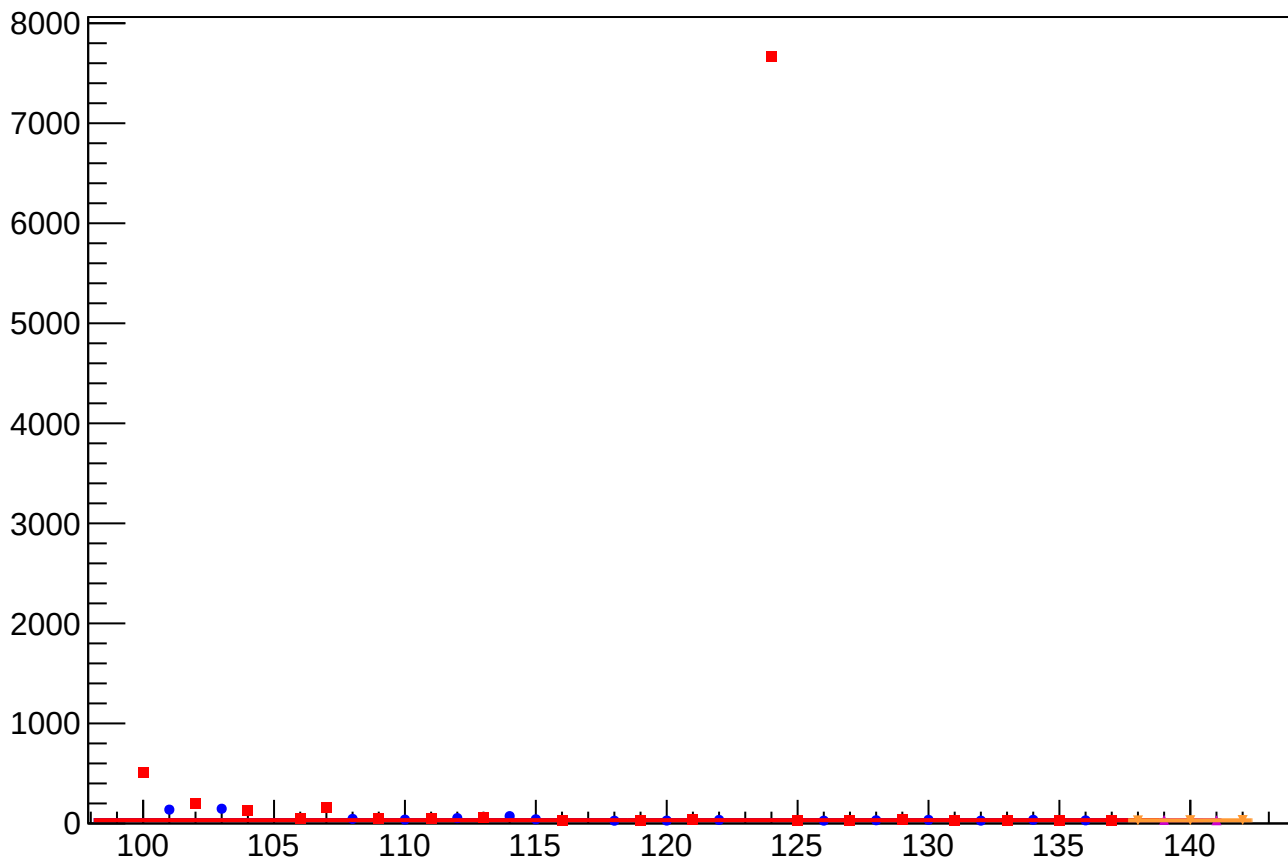
Right: -0.005 $\pm$ 0.010 χ^2 /NDF: 35.6/34

In: 0.008 $\pm$ 0.013 χ^2 /NDF: 23.3/17

Out: -0.005 $\pm$ 0.013 χ^2 /NDF: 23.1/21

All: 0.001 $\pm$ 0.009 χ^2 /NDF: 46.9/39

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.055+/-0.010 χ^2/NDF : 1717266.1/15

Left Out: 31.688+/-0.017 χ^2/NDF : 6536.4/2

Right Out: 33.084+/-0.011 χ^2/NDF : 2075124.6/18

Left In: 33.865+/-0.019 χ^2/NDF : 9308.3/1

Left: 32.635+/-0.013 χ^2/NDF : 22969.5/4

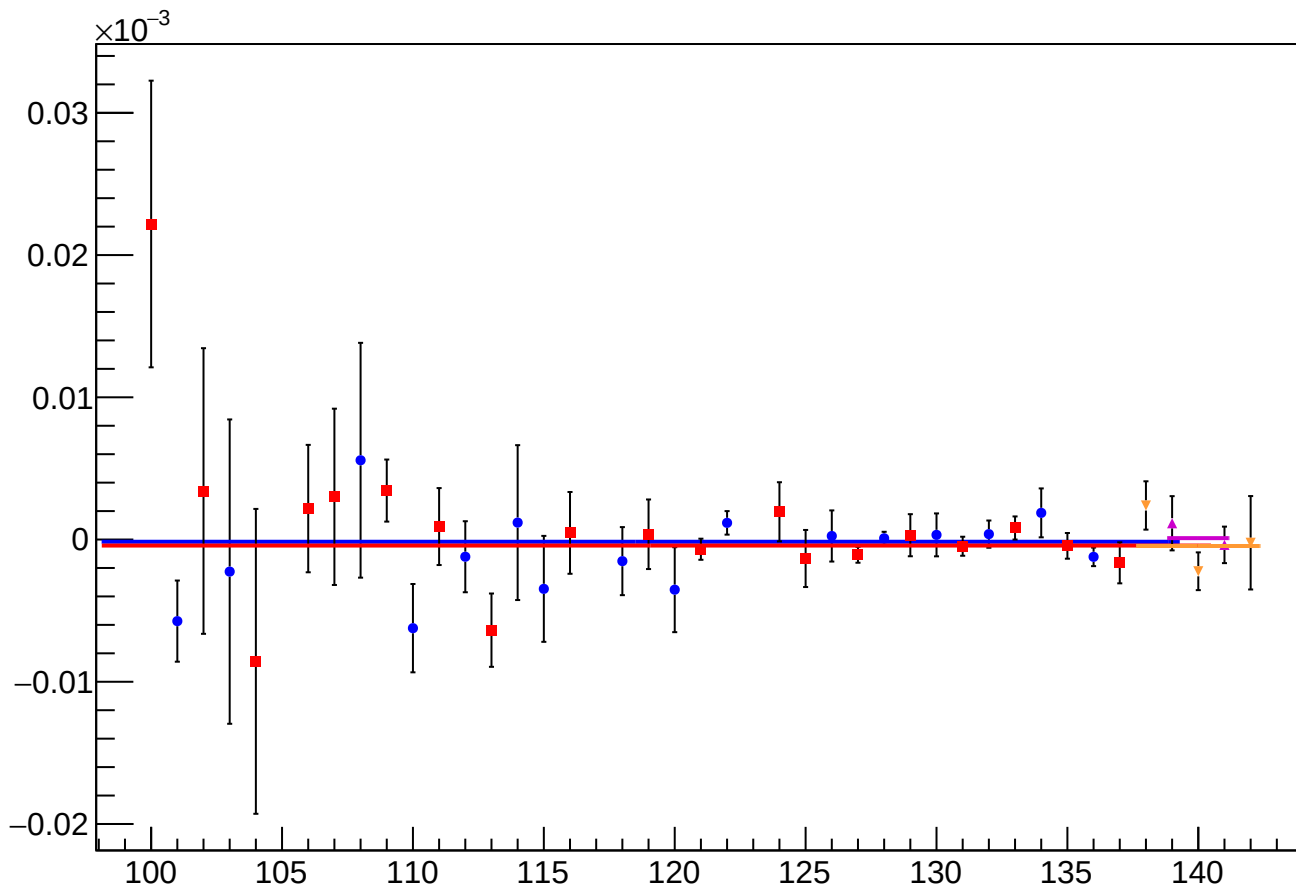
Right: 33.573+/-0.007 χ^2/NDF : 3796696.6/34

In: 34.012+/-0.009 χ^2/NDF : 1726649.4/17

Out: 32.698+/-0.009 χ^2/NDF : 2086531.7/21

All: 33.337+/-0.006 χ^2/NDF : 3823695.3/39

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 18.2/15

Left Out: -0.000+/-0.000 χ^2/NDF : 4.6/2

Right Out: -0.000+/-0.000 χ^2/NDF : 21.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.4/1

Left: -0.000+/-0.000 χ^2/NDF : 5.2/4

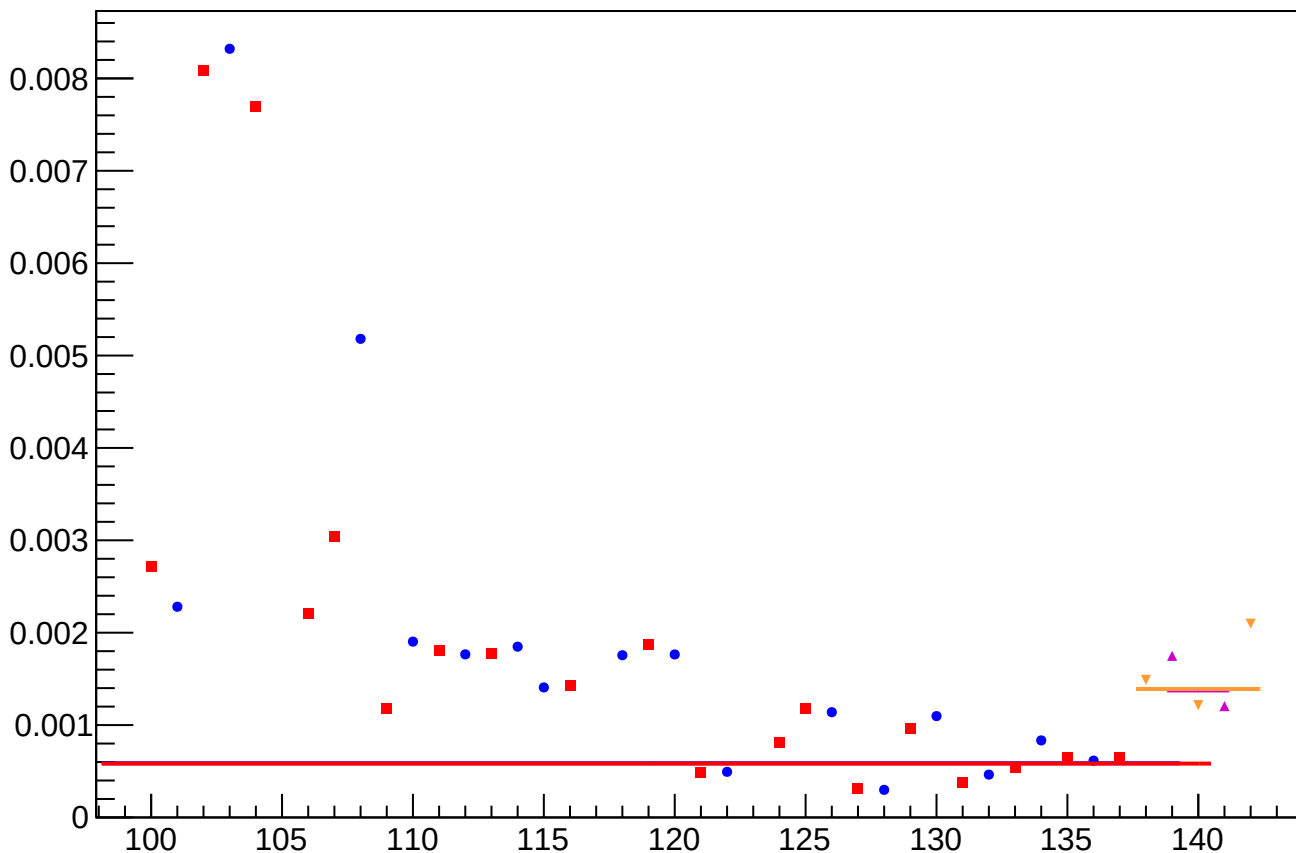
Right: -0.000+/-0.000 χ^2/NDF : 40.2/34

In: -0.000+/-0.000 χ^2/NDF : 18.7/17

Out: -0.000+/-0.000 χ^2/NDF : 26.2/21

All: -0.000+/-0.000 χ^2/NDF : 45.4/39

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 5485949.6/15

Left Out: 0.001+/-0.000

χ^2/NDF :134234.8/2

Right Out: 0.001+/-0.000

χ^2/NDF : 5431787.1/18

Left In: 0.001+/-0.000

χ^2/NDF :112334.2/1

Left: 0.001+/-0.000

χ^2/NDF : 246823.8/4

Right: 0.001+/-0.000

χ^2/NDF : 10917885.2/34

In: 0.001+/-0.000

χ^2/NDF :6616286.6/17

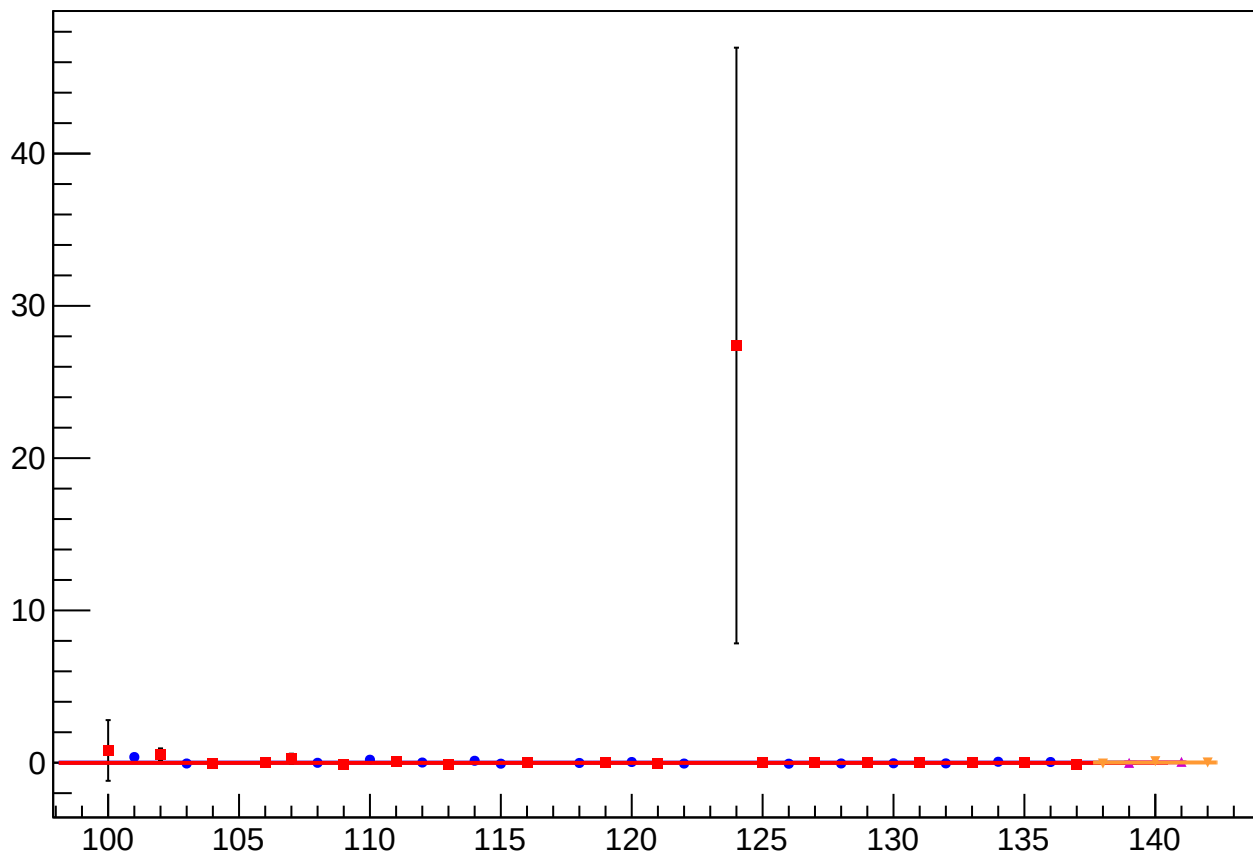
Out: 0.001+/-0.000

χ^2/NDF :6780988.9/21

All: 0.001+/-0.000

χ^2/NDF : 13397317.0/39

asym_at1_dd_eigen_dit_vs_slug, Sign Corrected



Right In: 0.002 ± 0.015 χ^2/NDF : 21.0/15

Left Out: 0.014 ± 0.024 χ^2/NDF : 8.1/2

Right Out: -0.012 ± 0.015 χ^2/NDF : 14.2/18

Left In: 0.029 ± 0.027 χ^2/NDF : 1.5/1

Left: 0.021 ± 0.018 χ^2/NDF : 9.7/4

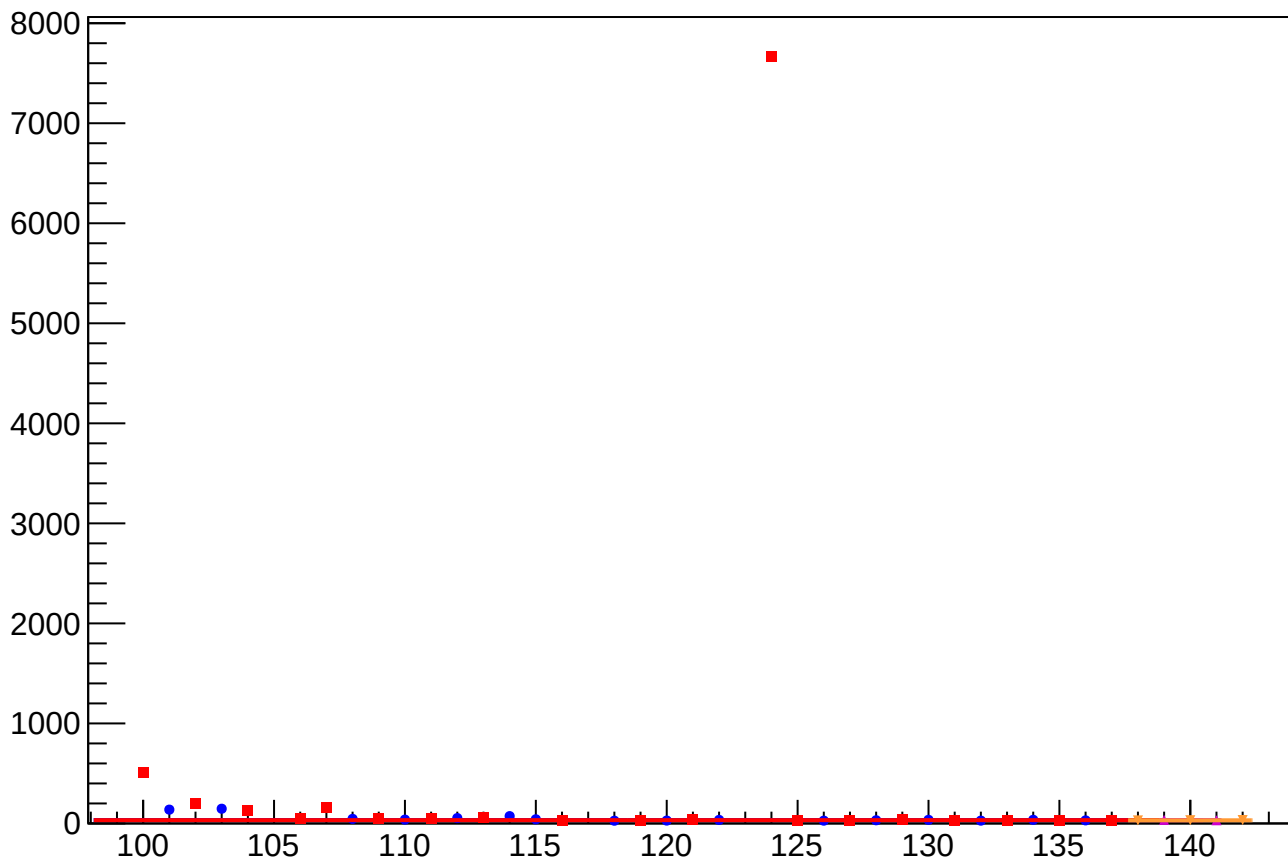
Right: -0.005 ± 0.010 χ^2/NDF : 35.6/34

In: 0.008 ± 0.013 χ^2/NDF : 23.3/17

Out: -0.005 ± 0.013 χ^2/NDF : 23.1/21

All: 0.001 ± 0.009 χ^2/NDF : 46.9/39

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.055+/-0.010 χ^2/NDF : 1717254.5/15

Left Out: 31.688+/-0.017 χ^2/NDF : 6539.3/2

Right Out: 33.083+/-0.011 χ^2/NDF : 2075105.8/18

Left In: 33.865+/-0.019 χ^2/NDF : 9308.0/1

Left: 32.635+/-0.013 χ^2/NDF : 22974.6/4

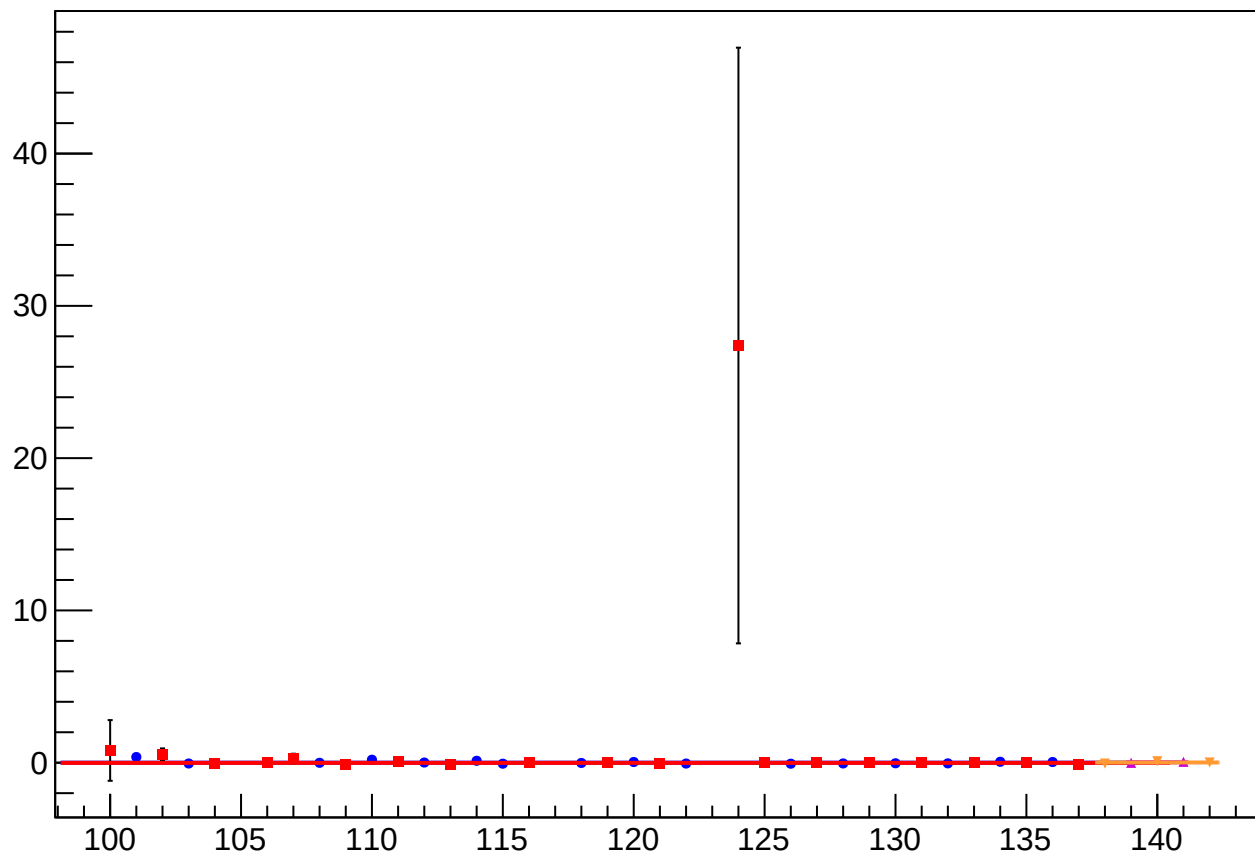
Right: 33.573+/-0.007 χ^2/NDF : 3796667.3/34

In: 34.013+/-0.009 χ^2/NDF : 1726637.5/17

Out: 32.698+/-0.009 χ^2/NDF : 2086517.2/21

All: 33.337+/-0.006 χ^2/NDF : 3823672.0/39

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.015 χ^2 /NDF: 21.0/15

Left Out: 0.014 $\pm$ 0.024 χ^2 /NDF: 8.1/2

Right Out: -0.012 $\pm$ 0.015 χ^2 /NDF: 14.2/18

Left In: 0.029 $\pm$ 0.027 χ^2 /NDF: 1.5/1

Left: 0.021 $\pm$ 0.018 χ^2 /NDF: 9.7/4

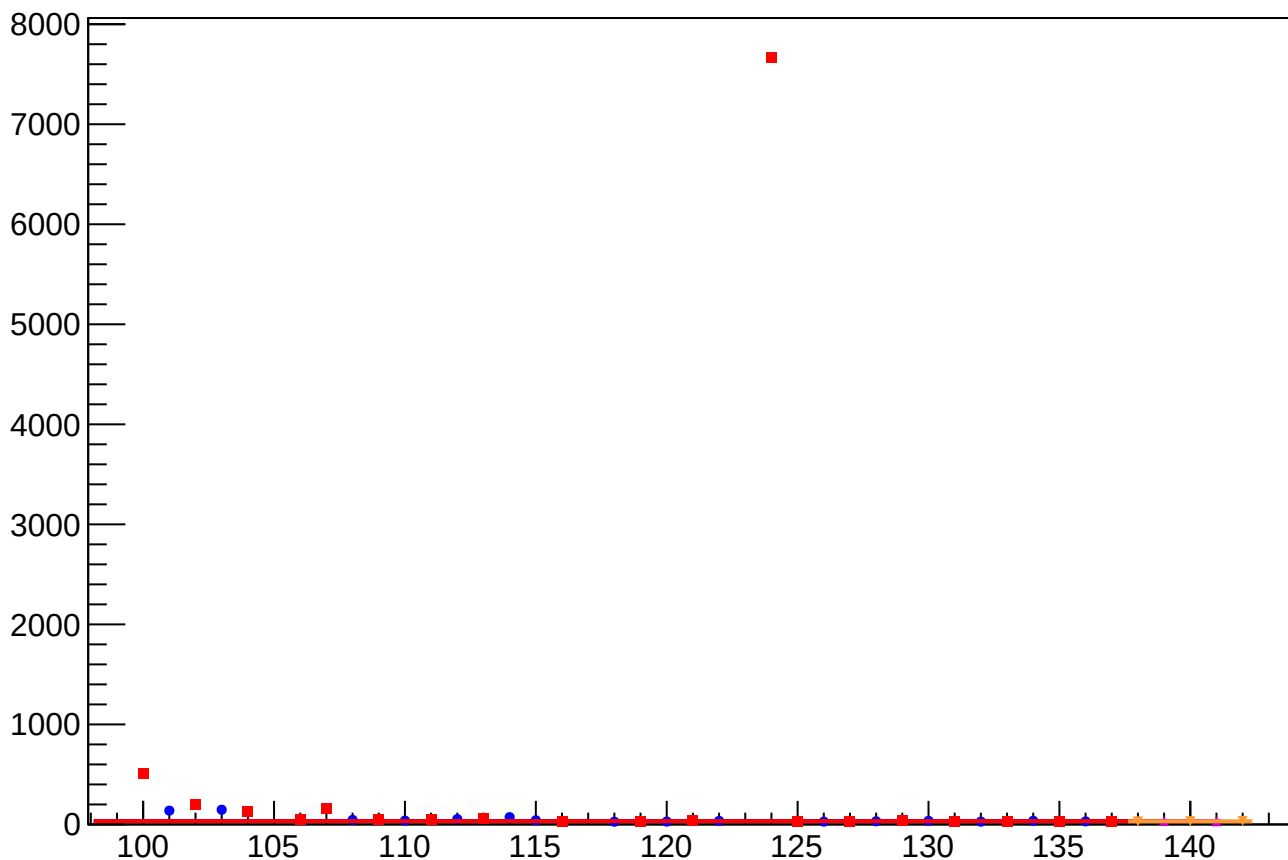
Right: -0.005 $\pm$ 0.010 χ^2 /NDF: 35.6/34

In: 0.008 $\pm$ 0.013 χ^2 /NDF: 23.3/17

Out: -0.005 $\pm$ 0.013 χ^2 /NDF: 23.1/21

All: 0.001 $\pm$ 0.009 χ^2 /NDF: 46.9/39

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.055+/-0.010 χ^2/NDF : 1717254.5/15

Left Out: 31.688+/-0.017 χ^2/NDF : 6539.3/2

Right Out: 33.083+/-0.011 χ^2/NDF : 2075105.8/18

Left In: 33.865+/-0.019 χ^2/NDF : 9308.0/1

Left: 32.635+/-0.013 χ^2/NDF : 22974.6/4

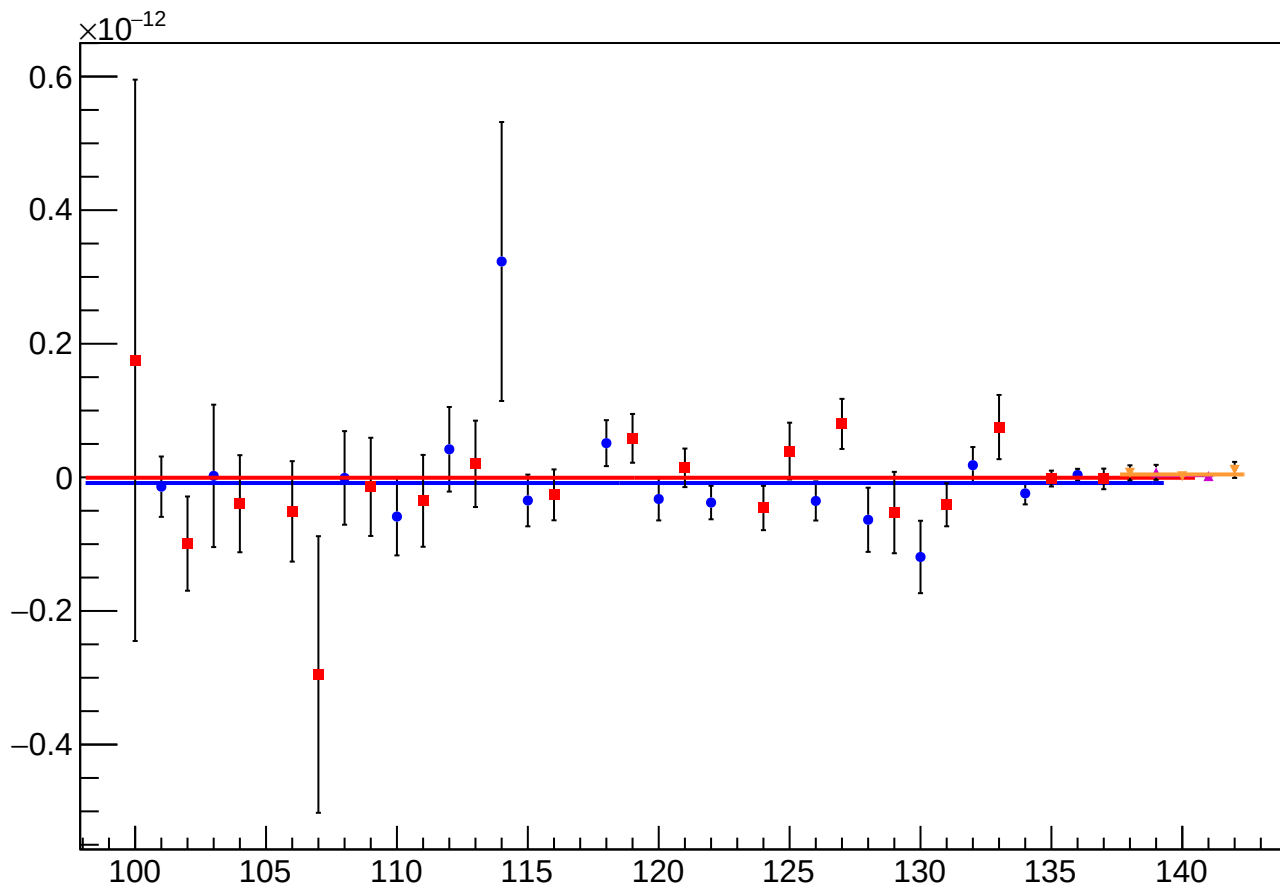
Right: 33.573+/-0.007 χ^2/NDF : 3796667.3/34

In: 34.013+/-0.009 χ^2/NDF : 1726637.5/17

Out: 32.698+/-0.009 χ^2/NDF : 2086517.2/21

All: 33.337+/-0.006 χ^2/NDF : 3823672.0/39

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 19.3/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.6/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 20.8/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.2/1

Left: 0.000 ± 0.000 χ^2/NDF : 0.8/4

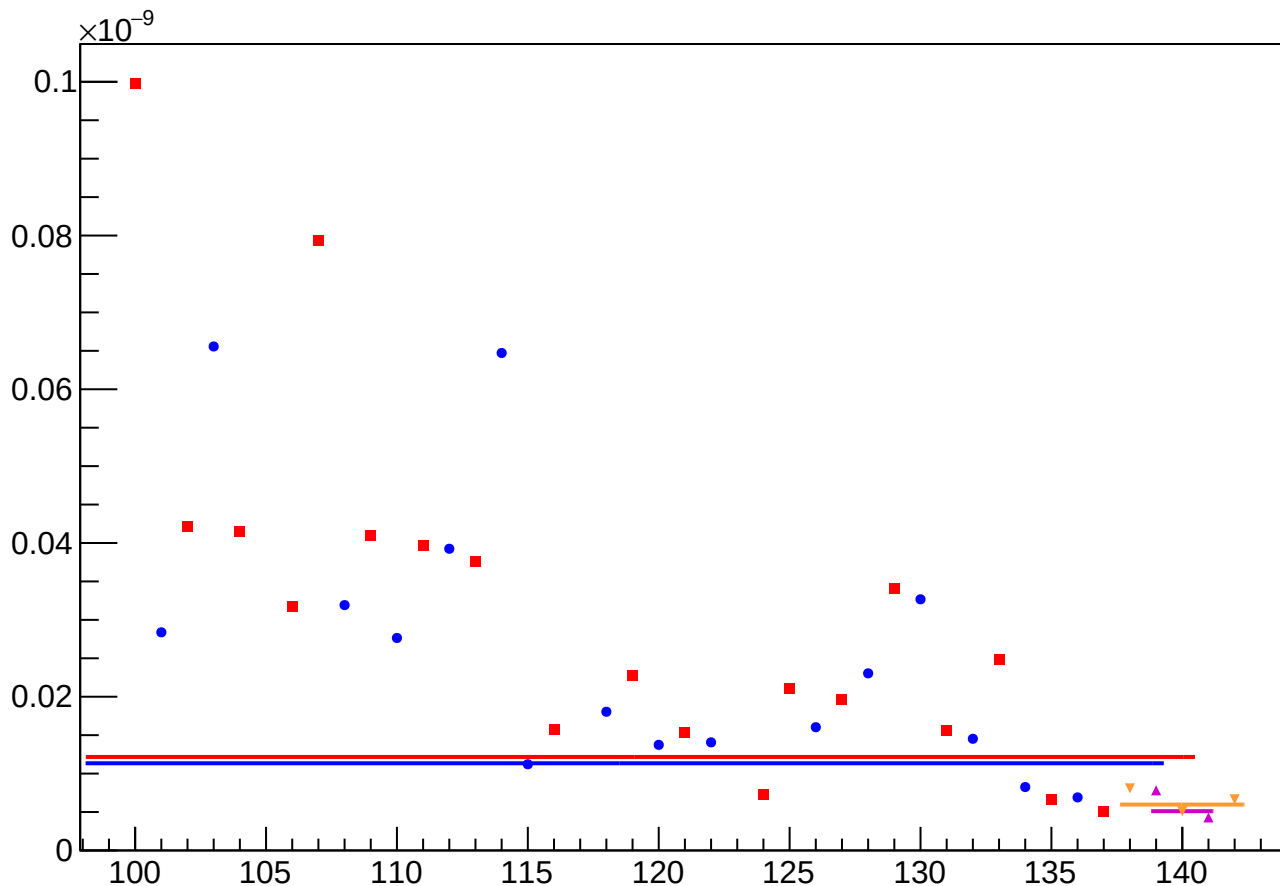
Right: -0.000 ± 0.000 χ^2/NDF : 40.7/34

In: -0.000 ± 0.000 χ^2/NDF : 21.4/17

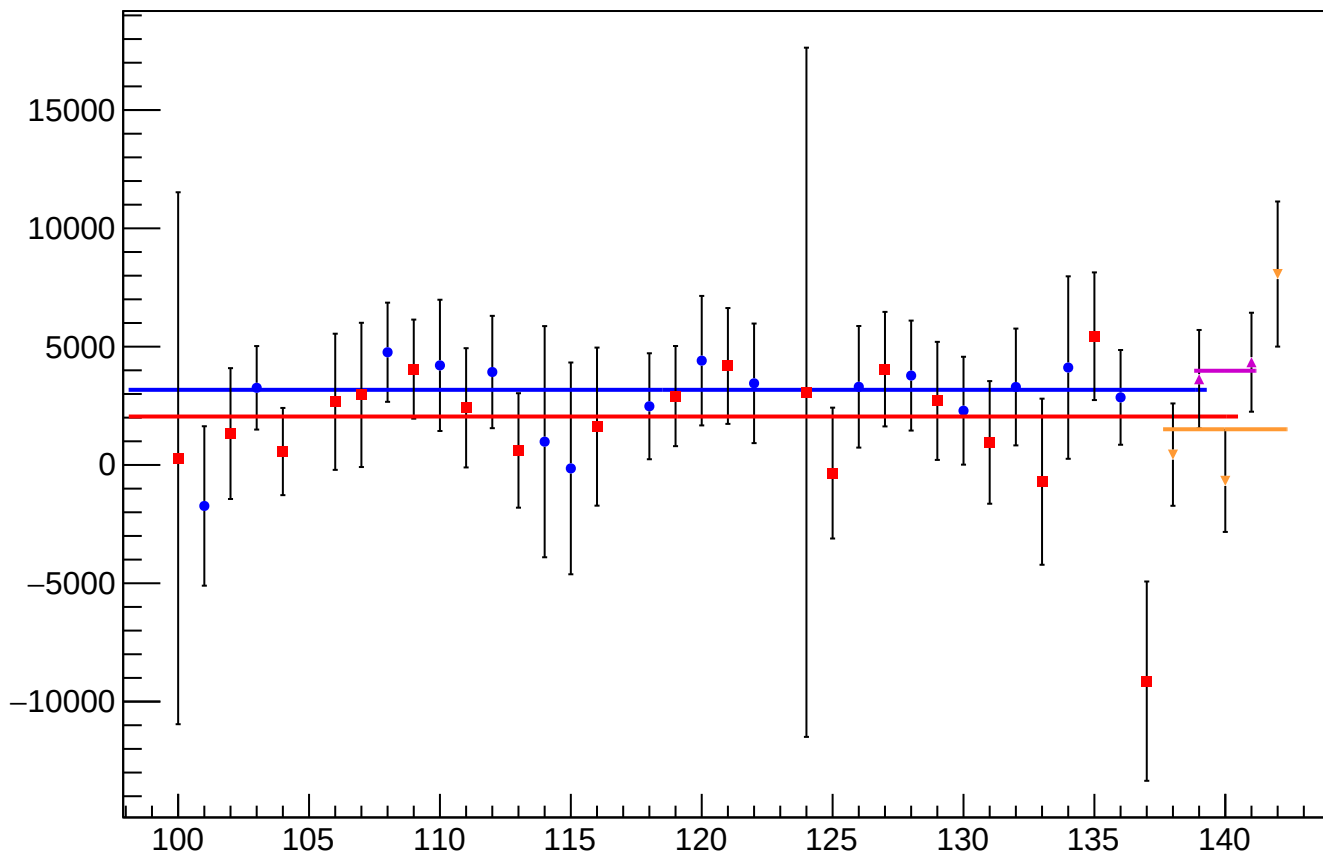
Out: 0.000 ± 0.000 χ^2/NDF : 21.7/21

All: 0.000 ± 0.000 χ^2/NDF : 43.6/39

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3175.599 $\pm$ 627.992 χ^2 /NDF: 4.3/15

Left Out: 1508.948 $\pm$ 1367.350 χ^2 /NDF:5.8/2

Right Out: 2047.403 $\pm$ 621.498 χ^2 /NDF: 14.0/18

Left In: 3981.499 $\pm$ 1475.079 χ^2 /NDF:0.1/1

Left: 2651.647 $\pm$ 1002.787 χ^2 /NDF: 7.4/4

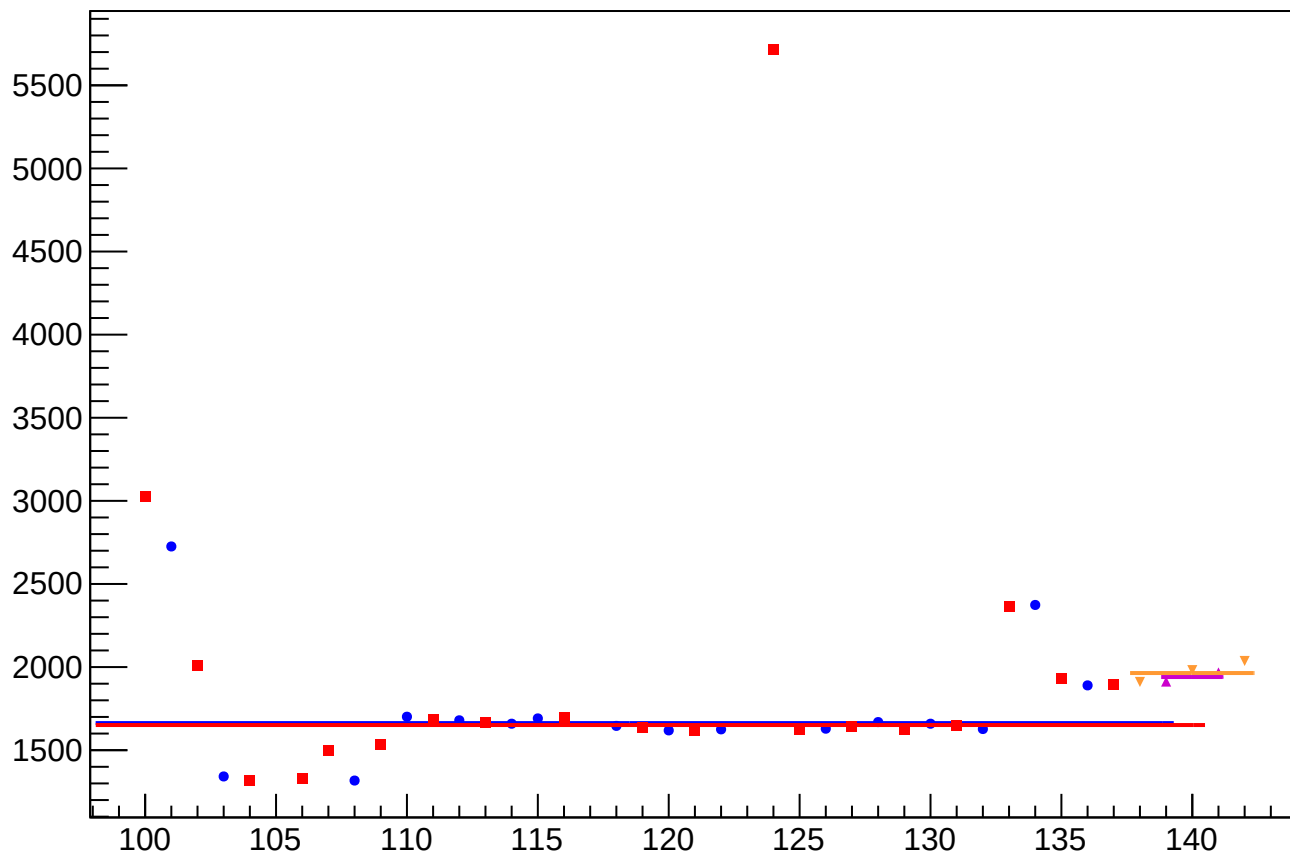
Right: 2605.638 $\pm$ 441.744 χ^2 /NDF: 20.0/34

In: 3299.255 $\pm$ 577.807 χ^2 /NDF:4.6/17

Out: 1955.208 $\pm$ 565.795 χ^2 /NDF:20.0/21

All: 2613.115 $\pm$ 404.258 χ^2 /NDF: 27.4/39

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1662.901+/-0.444 χ^2/NDF : 415630.7/15

Left Out: 1964.126+/-0.967 χ^2/NDF : 2475.8/2

Right Out: 1651.322+/-0.439 χ^2/NDF : 431965.1/18

Left In: 1940.171+/-1.043 χ^2/NDF : 690.4/1

Left: 1953.055+/-0.709 χ^2/NDF : 3449.9/4

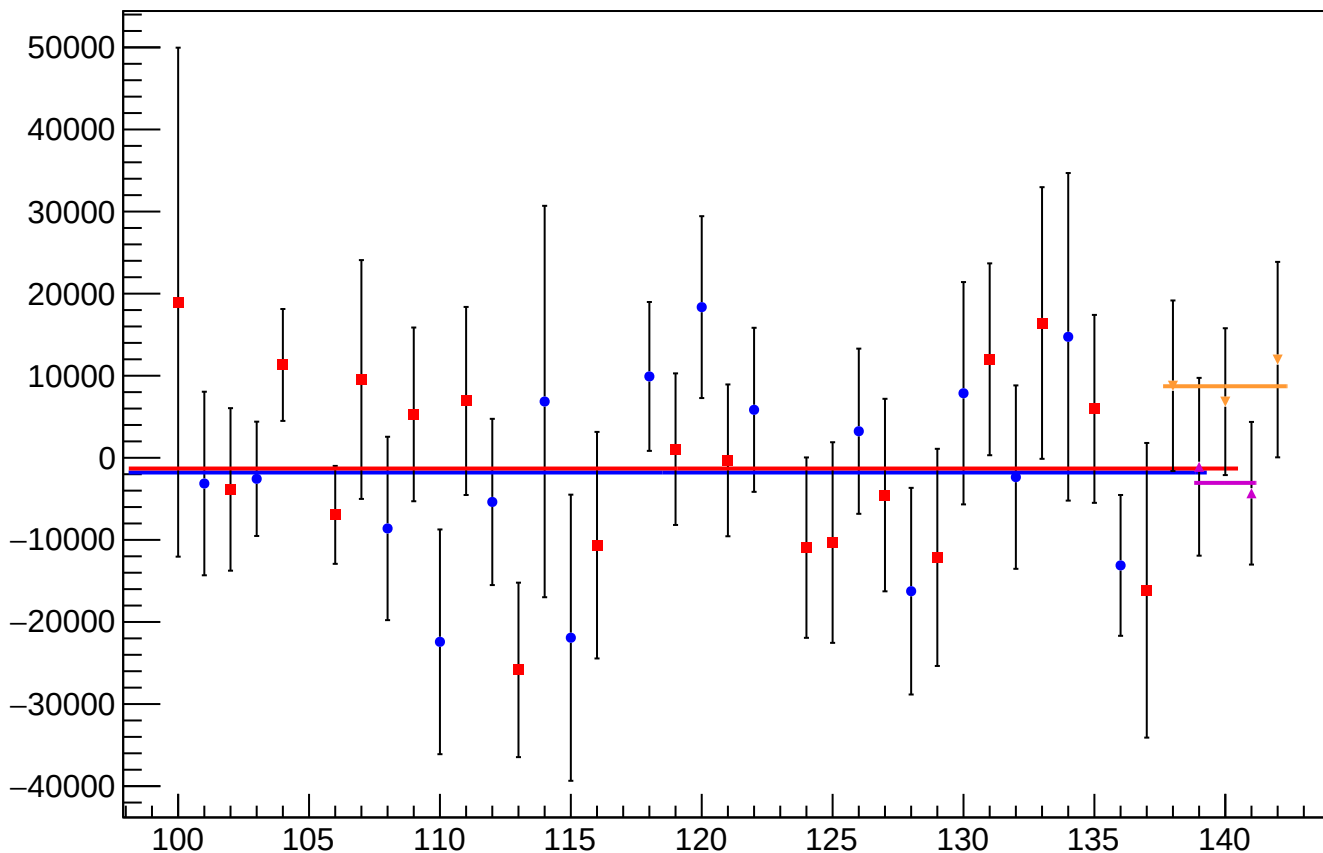
Right: 1657.052+/-0.312 χ^2/NDF : 847939.4/34

In: 1705.445+/-0.409 χ^2/NDF : 476143.3/17

Out: 1704.881+/-0.400 χ^2/NDF : 521187.7/21

All: 1705.157+/-0.286 χ^2/NDF : 997332.0/39

asym_at2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1791.030+/-2743.617 χ^2/NDF : 14.3/15

Left Out: 8717.371+/-5890.631 χ^2/NDF : 0.1/2

Right Out: -1306.311+/-2430.063 χ^2/NDF : 17.7/18

Left In: -3055.028+/-6777.638 χ^2/NDF : 0.1/1

Left: 3651.431+/-4446.066 χ^2/NDF : 1.9/4

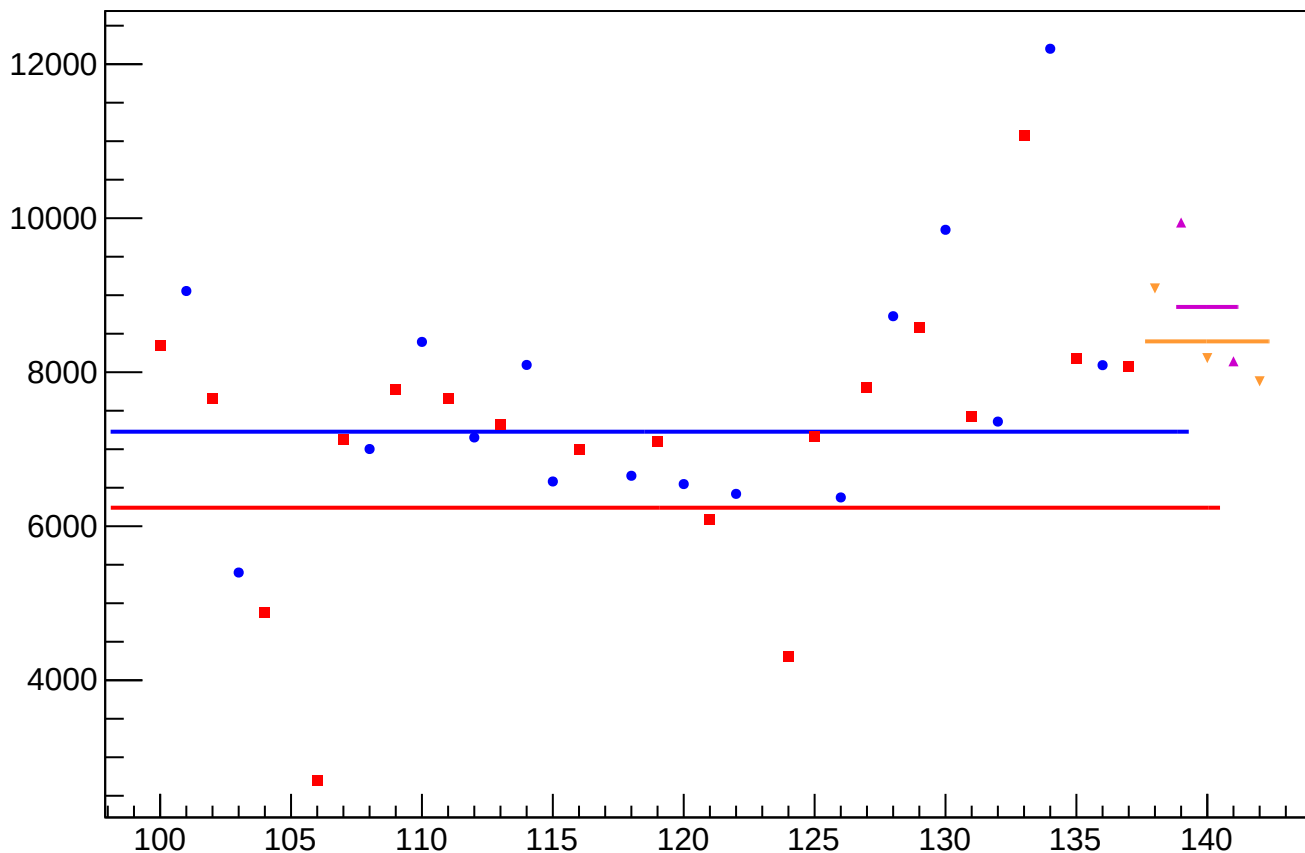
Right: -1519.402+/-1819.116 χ^2/NDF : 32.1/34

In: -1968.995+/-2543.150 χ^2/NDF : 14.4/17

Out: 151.448+/-2246.421 χ^2/NDF : 20.3/21

All: -777.907+/-1683.641 χ^2/NDF : 35.1/39

asym_at2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 7227.590+/-1.940 χ^2/NDF : 503260.9/15

Left Out: 8400.371+/-4.165 χ^2/NDF : 13728.7/2

Right Out: 6240.557+/-1.718 χ^2/NDF : 1399077.4/18

Left In: 8847.743+/-4.793 χ^2/NDF : 33692.1/1

Left: 8592.886+/-3.144 χ^2/NDF : 52384.9/4

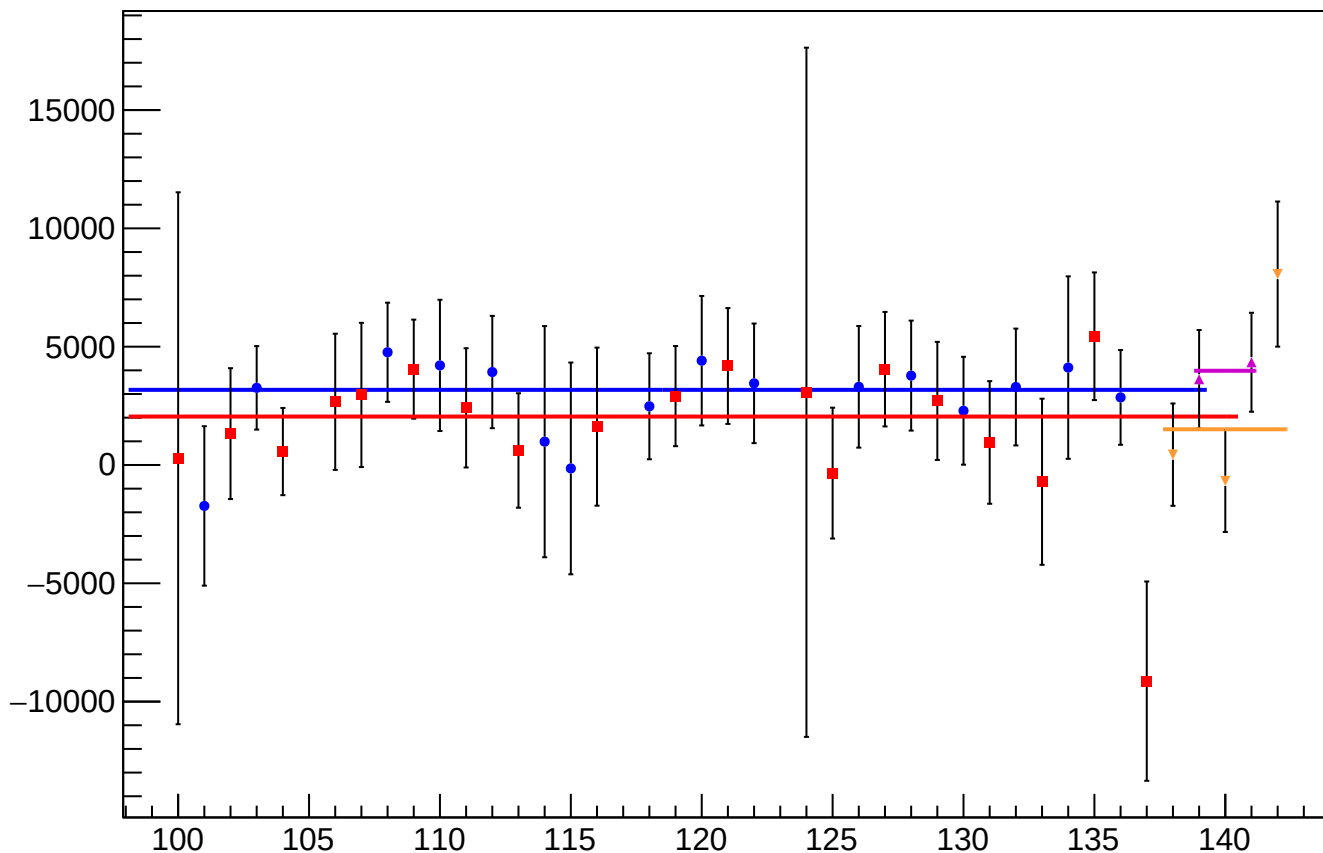
Right: 6674.473+/-1.286 χ^2/NDF : 2047393.1/34

In: 7455.700+/-1.798 χ^2/NDF : 635146.3/17

Out: 6554.662+/-1.588 χ^2/NDF : 1642572.2/21

All: 6949.572+/-1.191 χ^2/NDF : 2418741.2/39

cor_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3175.689 $\pm$ 627.992 χ^2 /NDF: 4.3/15

Left Out: 1508.985 $\pm$ 1367.350 χ^2 /NDF:5.8/2

Right Out: 2047.209 $\pm$ 621.498 χ^2 /NDF: 14.0/18

Left In: 3981.542 $\pm$ 1475.079 χ^2 /NDF:0.1/1

Left: 2651.687 $\pm$ 1002.787 χ^2 /NDF: 7.4/4

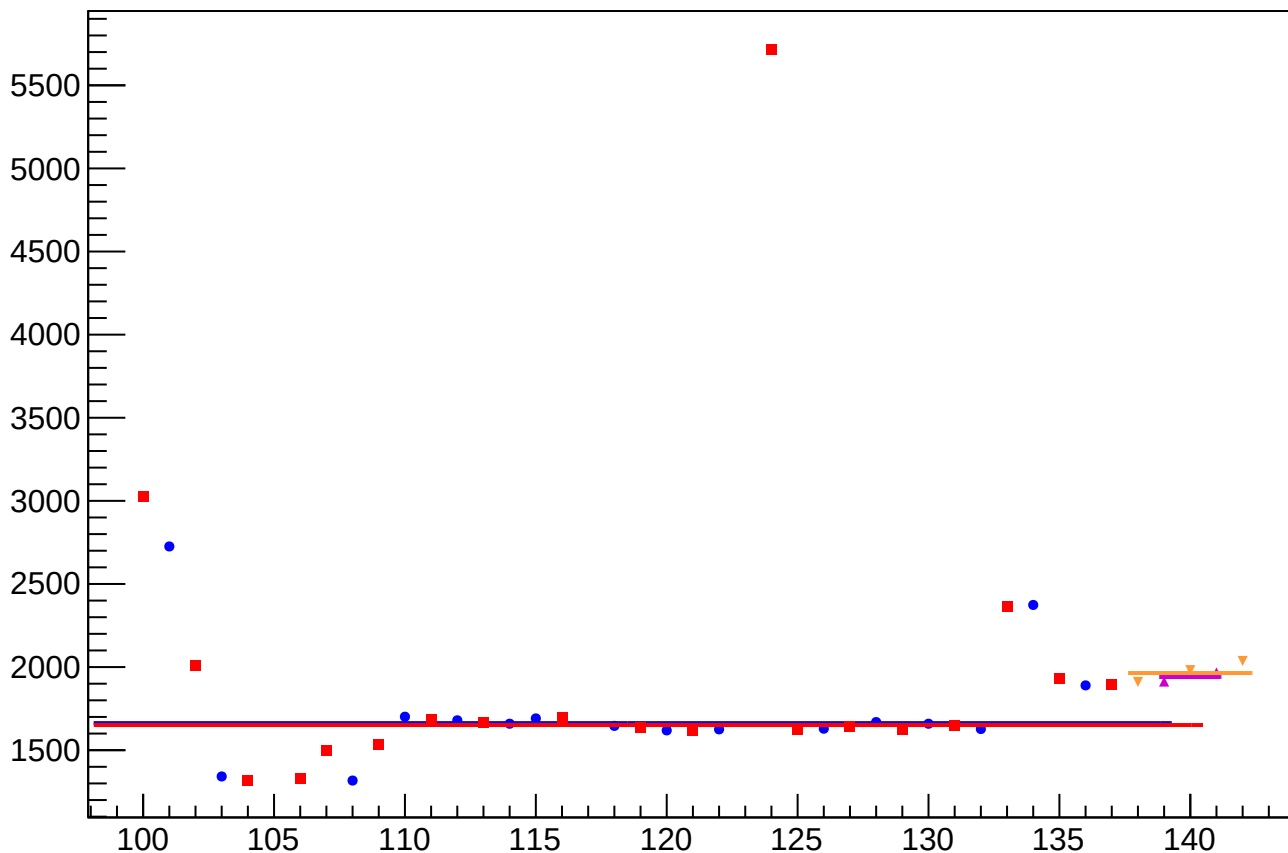
Right: 2605.584 $\pm$ 441.744 χ^2 /NDF: 20.0/34

In: 3299.338 $\pm$ 577.807 χ^2 /NDF:4.6/17

Out: 1955.053 $\pm$ 565.795 χ^2 /NDF:20.0/21

All: 2613.077 $\pm$ 404.258 χ^2 /NDF: 27.4/39

cor_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1662.901+/-0.444 χ^2/NDF : 415631.0/15

Left Out: 1964.126+/-0.967 χ^2/NDF : 2475.8/2

Right Out: 1651.322+/-0.439 χ^2/NDF : 431965.2/18

Left In: 1940.171+/-1.043 χ^2/NDF : 690.4/1

Left: 1953.055+/-0.709 χ^2/NDF : 3449.9/4

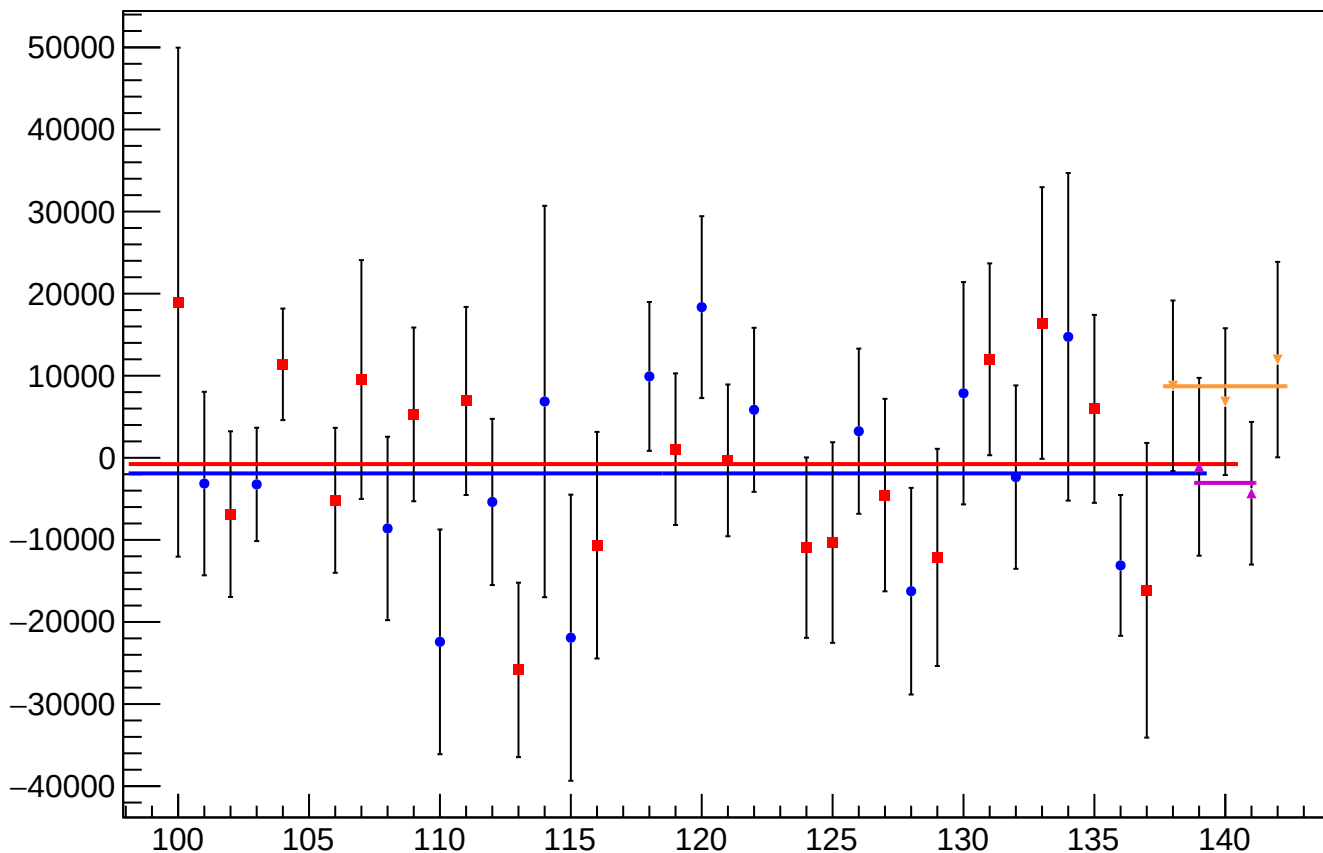
Right: 1657.051+/-0.312 χ^2/NDF : 847939.7/34

In: 1705.445+/-0.409 χ^2/NDF : 476143.6/17

Out: 1704.880+/-0.400 χ^2/NDF : 521187.9/21

All: 1705.157+/-0.286 χ^2/NDF : 997332.5/39

asym_at2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1900.125+/-2739.954 χ^2/NDF : 14.4/15

Left Out: 8717.438+/-5890.623 χ^2/NDF : 0.1/2

Right Out: -762.513+/-2549.943 χ^2/NDF : 17.3/18

Left In: -3055.098+/-6777.632 χ^2/NDF : 0.1/1

Left: 3651.441+/-4446.061 χ^2/NDF : 1.9/4

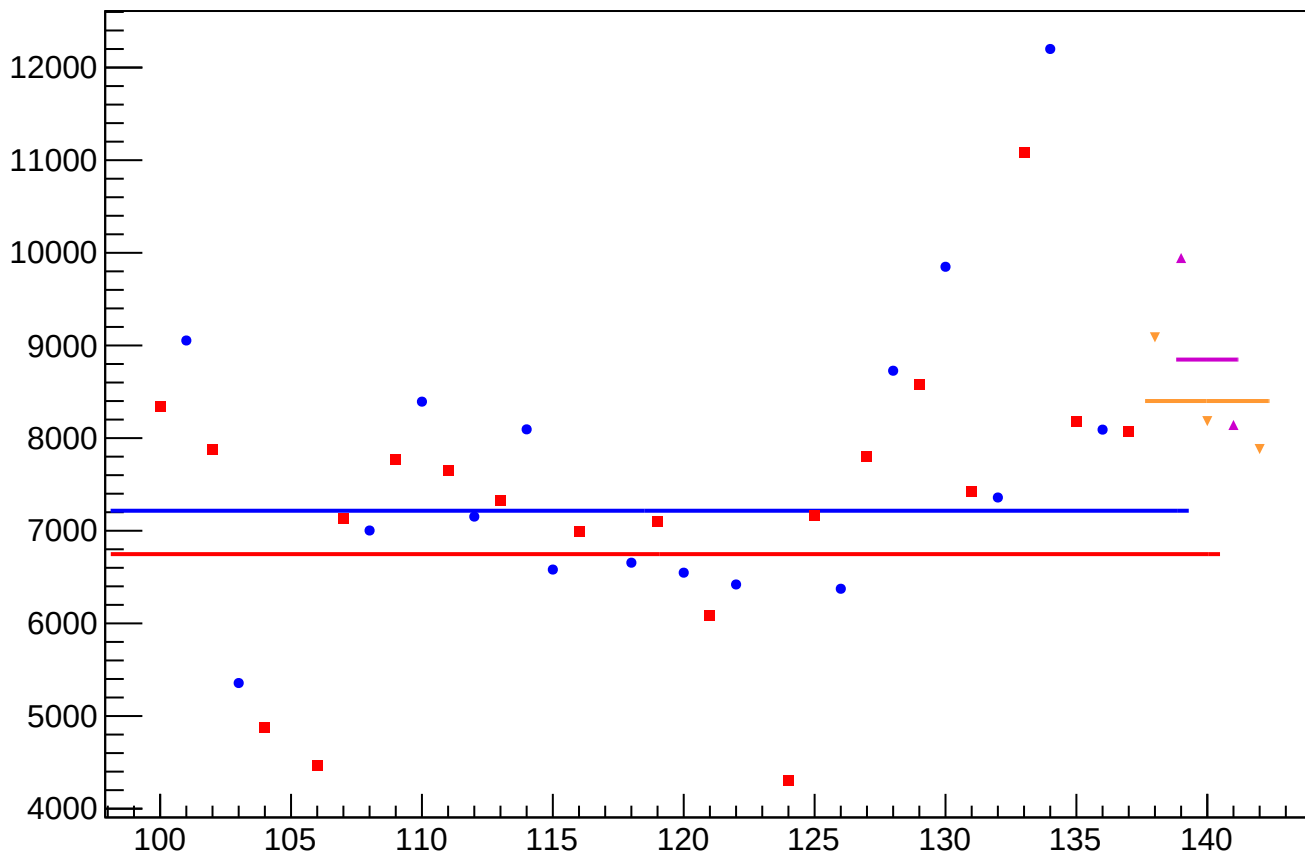
Right: -1290.509+/-1866.644 χ^2/NDF : 31.7/34

In: -2062.367+/-2540.231 χ^2/NDF : 14.4/17

Out: 733.559+/-2340.100 χ^2/NDF : 19.6/21

All: -549.942+/-1721.110 χ^2/NDF : 34.7/39

asym_at2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 7216.029+/-1.937 χ^2/NDF : 512126.4/15

Left Out: 8400.359+/-4.165 χ^2/NDF :13728.9/2

Right Out: 6747.736+/-1.803 χ^2/NDF : 708793.3/18

Left In: 8847.734+/-4.793 χ^2/NDF :33692.3/1

Left: 8592.875+/-3.144 χ^2/NDF : 52385.3/4

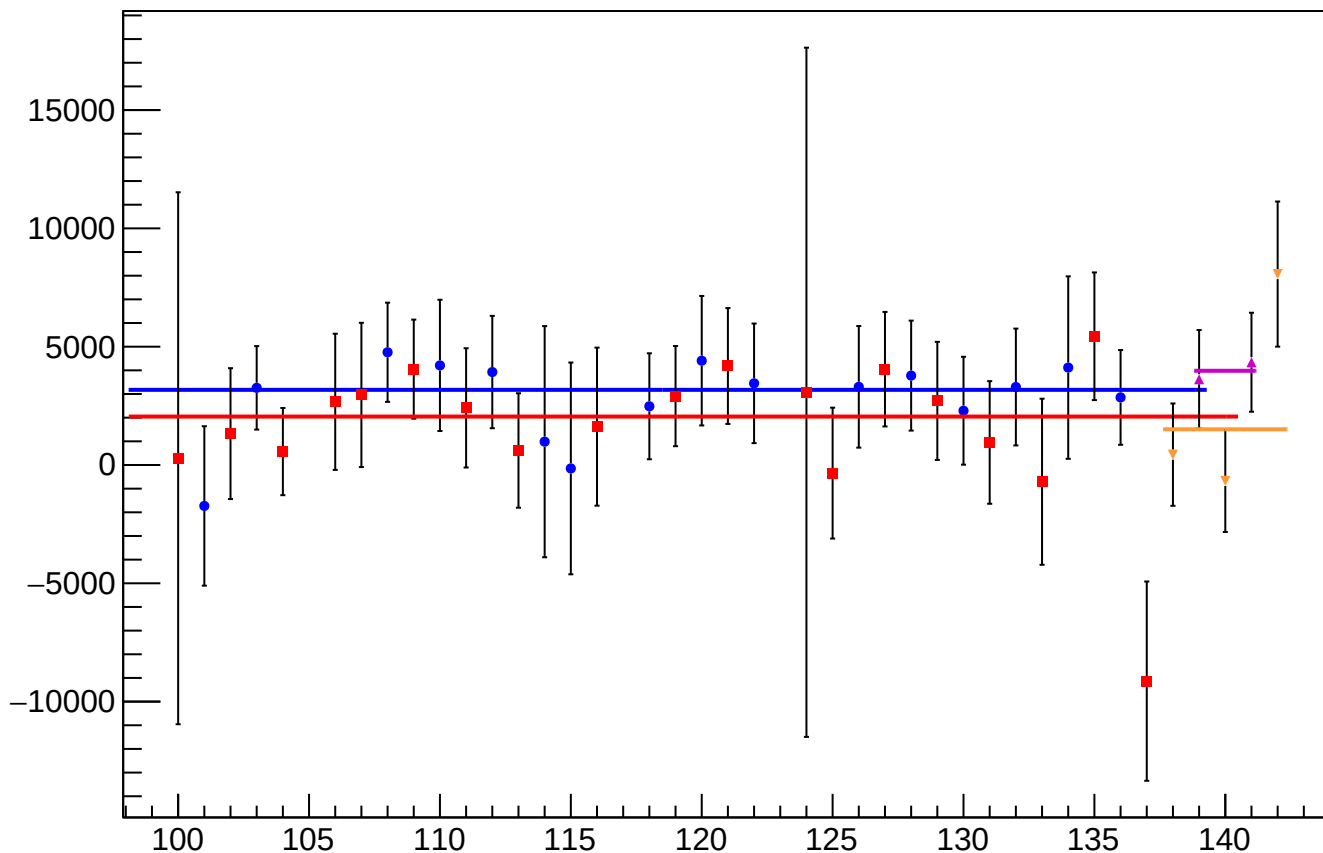
Right: 6965.084+/-1.320 χ^2/NDF : 1252226.6/34

In: 7445.239+/-1.796 χ^2/NDF :645454.8/17

Out: 7008.544+/-1.655 χ^2/NDF :855097.5/21

All: 7209.013+/-1.217 χ^2/NDF : 1532525.6/39

eigen_cor_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3175.689 $\pm$ 627.992 χ^2 /NDF: 4.3/15

Left Out: 1508.985 $\pm$ 1367.350 χ^2 /NDF:5.8/2

Right Out: 2047.209 $\pm$ 621.498 χ^2 /NDF: 14.0/18

Left In: 3981.542 $\pm$ 1475.079 χ^2 /NDF:0.1/1

Left: 2651.687 $\pm$ 1002.787 χ^2 /NDF: 7.4/4

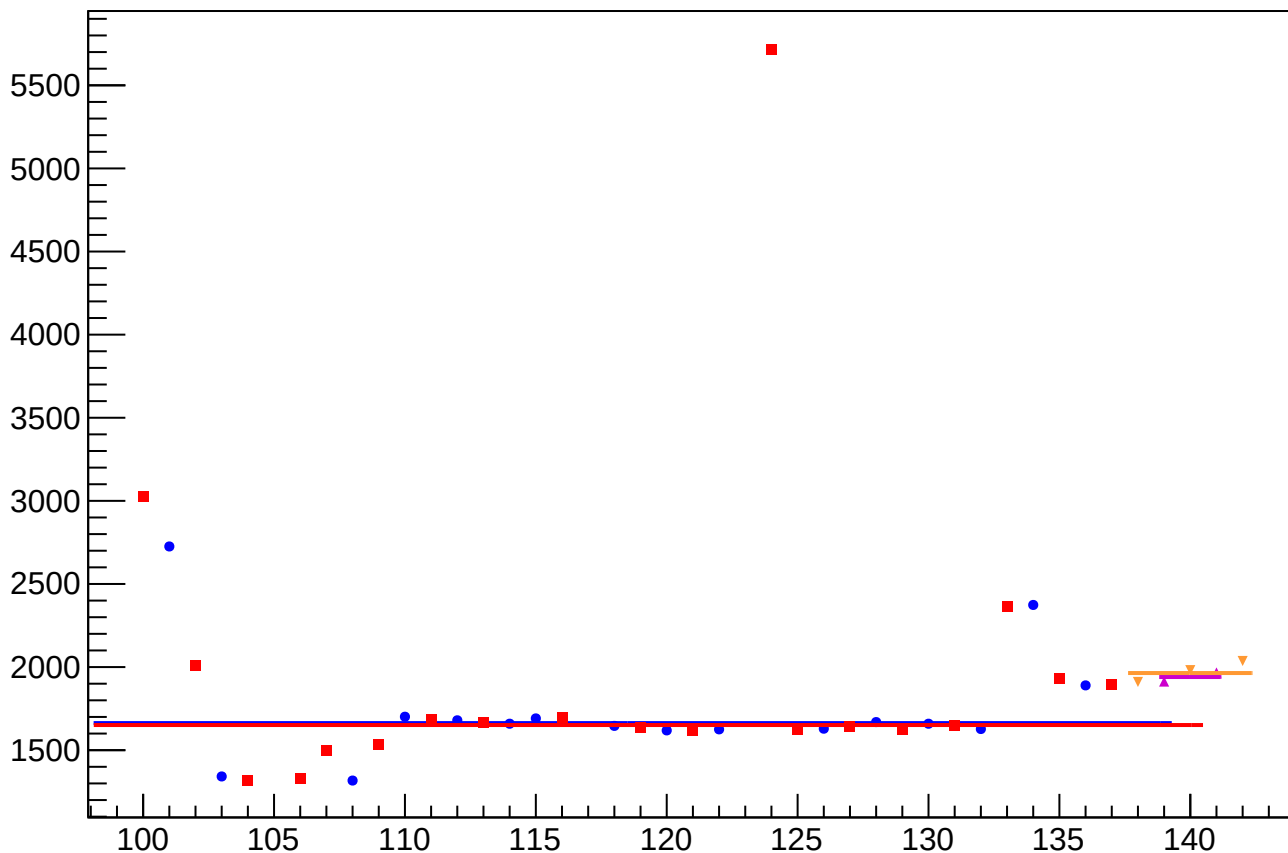
Right: 2605.584 $\pm$ 441.744 χ^2 /NDF: 20.0/34

In: 3299.338 $\pm$ 577.807 χ^2 /NDF:4.6/17

Out: 1955.053 $\pm$ 565.795 χ^2 /NDF:20.0/21

All: 2613.077 $\pm$ 404.258 χ^2 /NDF: 27.4/39

eigen_cor_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1662.901+/-0.444 χ^2/NDF : 415631.0/15

Left Out: 1964.126+/-0.967 χ^2/NDF : 2475.8/2

Right Out: 1651.322+/-0.439 χ^2/NDF : 431965.2/18

Left In: 1940.171+/-1.043 χ^2/NDF : 690.4/1

Left: 1953.055+/-0.709 χ^2/NDF : 3449.9/4

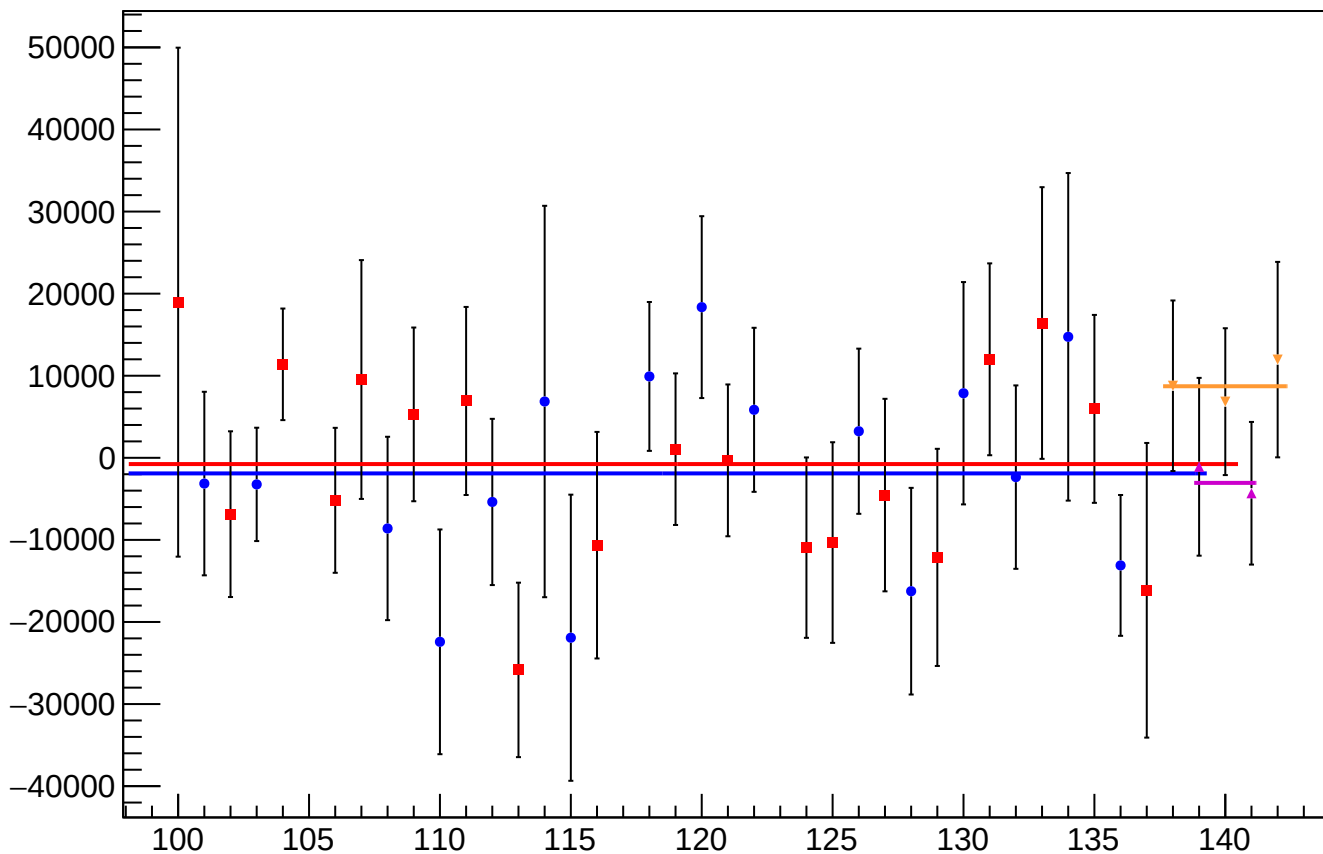
Right: 1657.051+/-0.312 χ^2/NDF : 847939.7/34

In: 1705.445+/-0.409 χ^2/NDF : 476143.6/17

Out: 1704.880+/-0.400 χ^2/NDF : 521187.9/21

All: 1705.157+/-0.286 χ^2/NDF : 997332.5/39

asym_at2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1900.125+/-2739.954 χ^2/NDF : 14.4/15

Left Out: 8717.438+/-5890.623 χ^2/NDF : 0.1/2

Right Out: -762.513+/-2549.943 χ^2/NDF : 17.3/18

Left In: -3055.098+/-6777.632 χ^2/NDF : 0.1/1

Left: 3651.441+/-4446.061 χ^2/NDF : 1.9/4

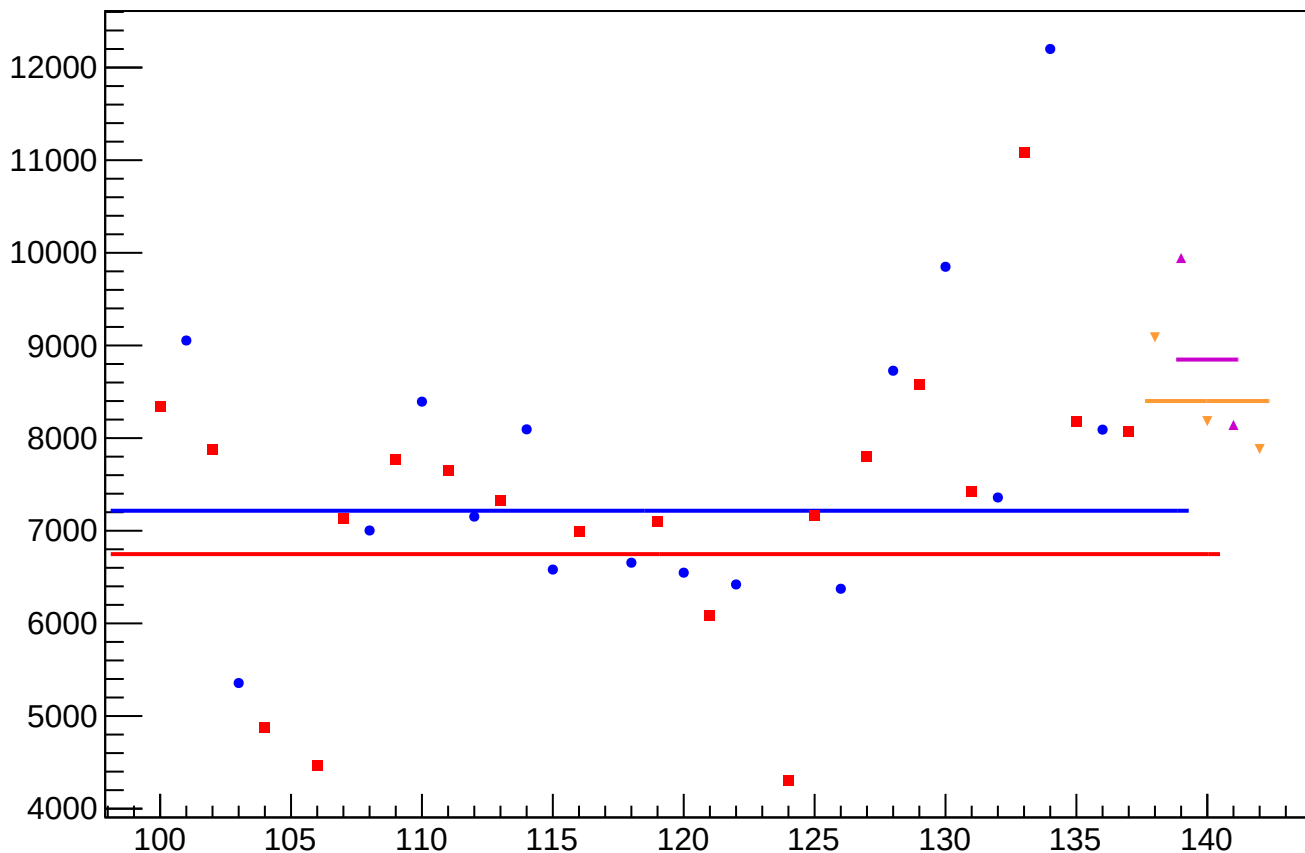
Right: -1290.509+/-1866.644 χ^2/NDF : 31.7/34

In: -2062.367+/-2540.231 χ^2/NDF : 14.4/17

Out: 733.559+/-2340.100 χ^2/NDF : 19.6/21

All: -549.942+/-1721.110 χ^2/NDF : 34.7/39

asym_at2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 7216.029+/-1.937 χ^2/NDF : 512126.4/15

Left Out: 8400.359+/-4.165 χ^2/NDF :13728.9/2

Right Out: 6747.736+/-1.803 χ^2/NDF : 708793.3/18

Left In: 8847.734+/-4.793 χ^2/NDF :33692.3/1

Left: 8592.875+/-3.144 χ^2/NDF : 52385.3/4

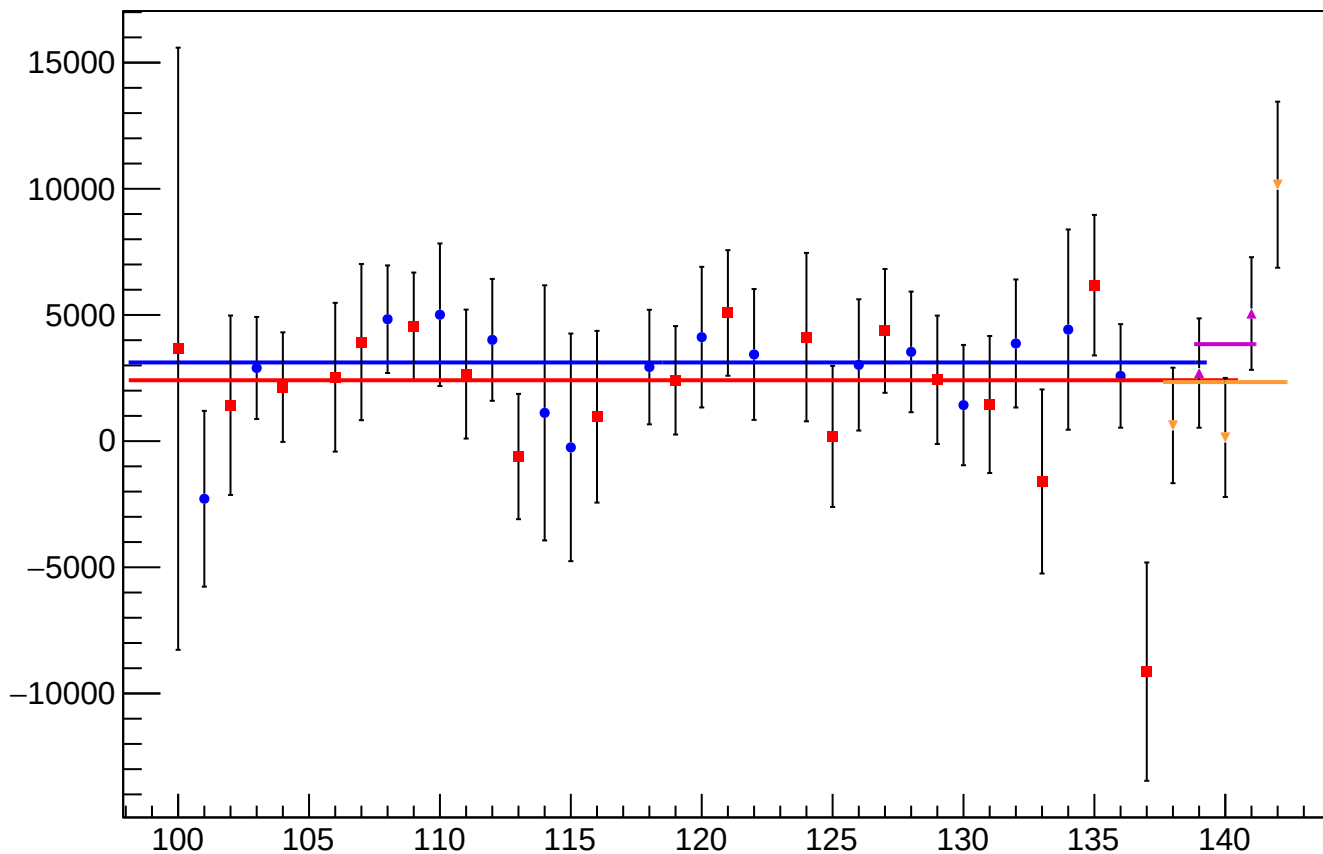
Right: 6965.084+/-1.320 χ^2/NDF : 1252226.6/34

In: 7445.239+/-1.796 χ^2/NDF :645454.8/17

Out: 7008.544+/-1.655 χ^2/NDF :855097.5/21

All: 7209.013+/-1.217 χ^2/NDF : 1532525.6/39

dit_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3117.878+/-651.119 χ^2/NDF : 5.3/15

Left Out: 2340.180+/-1469.533 χ^2/NDF : 7.1/2

Right Out: 2412.473+/-639.018 χ^2/NDF : 16.0/18

Left In: 3842.124+/-1554.671 χ^2/NDF : 0.6/1

Left: 3048.903+/-1067.947 χ^2/NDF : 8.1/4

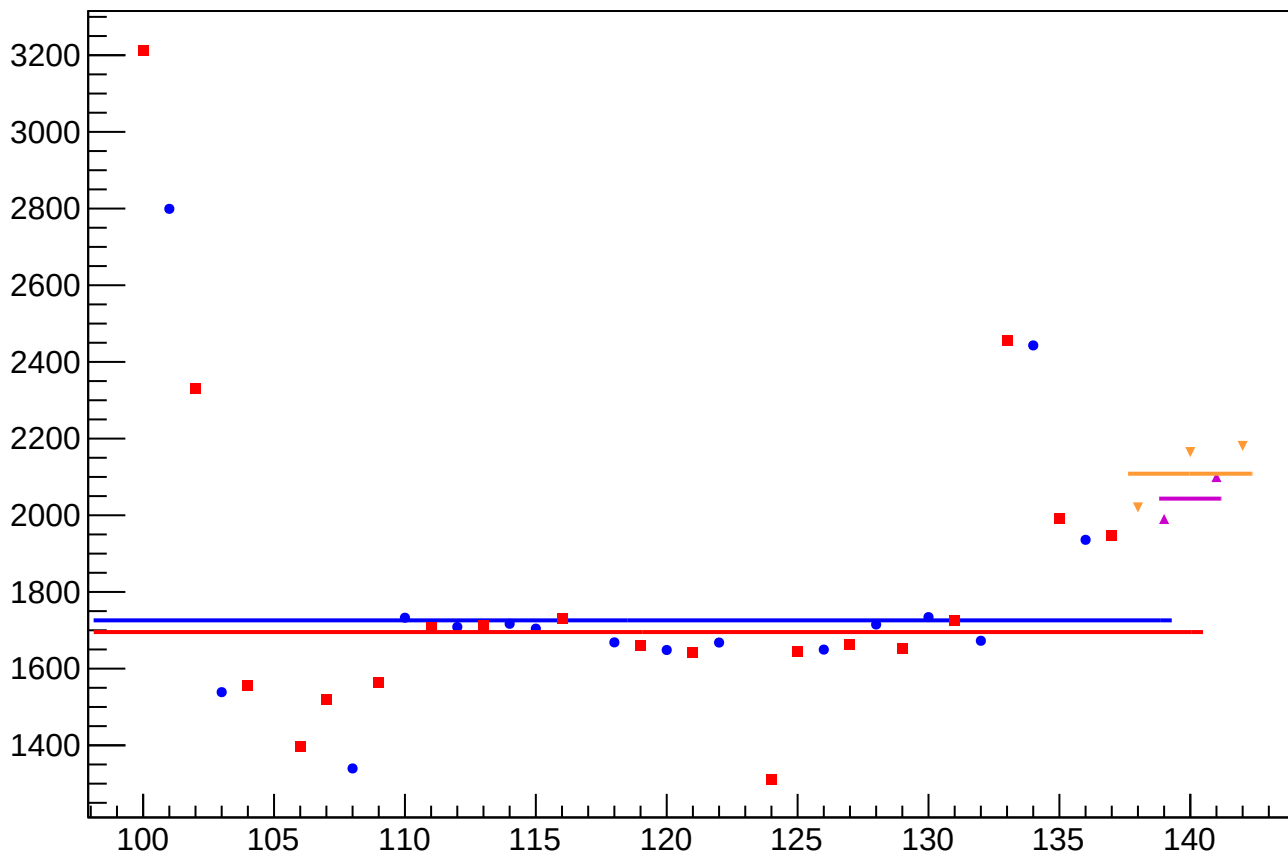
Right: 2758.560+/-456.072 χ^2/NDF : 21.9/34

In: 3225.957+/-600.574 χ^2/NDF : 6.1/17

Out: 2400.977+/-586.011 χ^2/NDF : 23.1/21

All: 2803.344+/-419.426 χ^2/NDF : 30.1/39

dit_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1725.911 $\pm$ 0.460 χ^2/NDF : 365638.9/15

Left Out: 2108.452 $\pm$ 1.039 χ^2/NDF :5069.9/2

Right Out: 1695.387 $\pm$ 0.452 χ^2/NDF : 285622.0/18

Left In: 2043.421 $\pm$ 1.099 χ^2/NDF :2475.6/1

Left: 2077.766 $\pm$ 0.755 χ^2/NDF : 9393.6/4

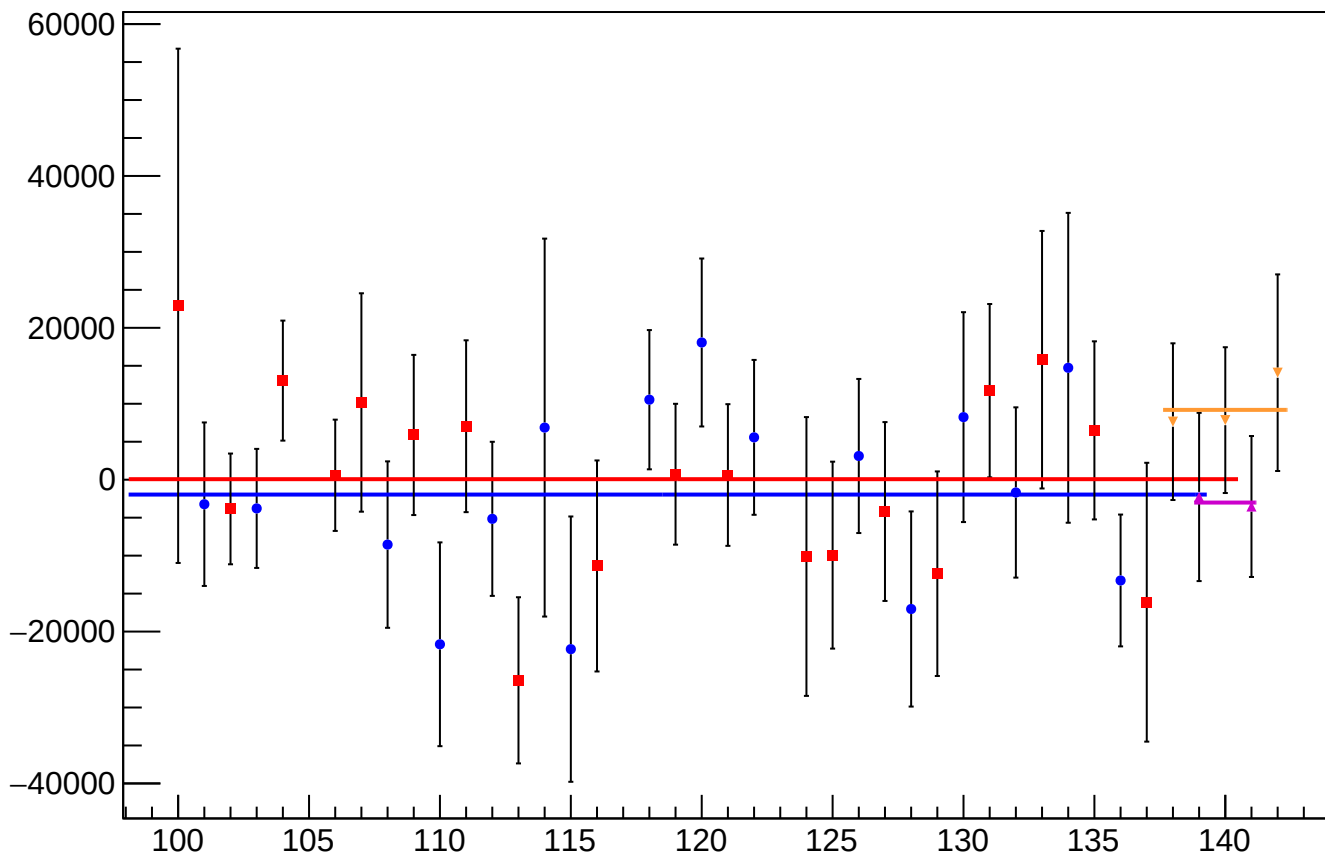
Right: 1710.357 $\pm$ 0.322 χ^2/NDF : 653500.6/34

In: 1773.293 $\pm$ 0.425 χ^2/NDF :439085.6/17

Out: 1761.032 $\pm$ 0.414 χ^2/NDF :423597.9/21

All: 1767.010 $\pm$ 0.297 χ^2/NDF : 863110.7/39

asym_at2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1958.559+/-2798.309 χ^2/NDF : 14.4/15

Left Out: 9194.291+/-6176.623 χ^2/NDF : 0.2/2

Right Out: 68.156+/-2529.527 χ^2/NDF : 16.1/18

Left In: -3011.596+/-7114.105 χ^2/NDF : 0.0/1

Left: 3948.046+/-4664.014 χ^2/NDF : 1.9/4

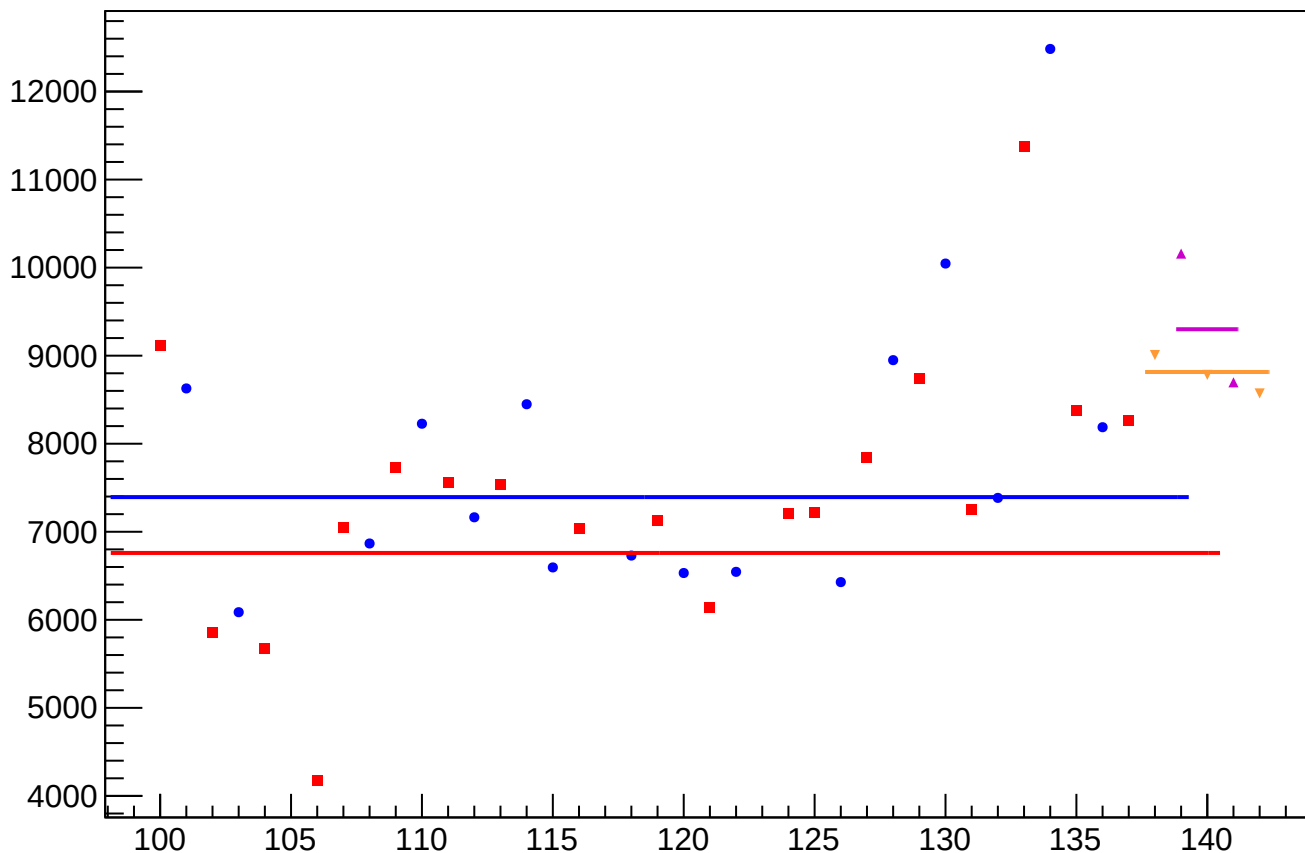
Right: -843.216+/-1876.494 χ^2/NDF : 30.8/34

In: -2099.656+/-2604.096 χ^2/NDF : 14.4/17

Out: 1378.924+/-2340.834 χ^2/NDF : 18.2/21

All: -175.694+/-1740.876 χ^2/NDF : 33.6/39

asym_at2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 7393.622 $\pm$ 1.979 χ^2 /NDF: 401826.8/15

Left Out: 8814.703 $\pm$ 4.368 χ^2 /NDF:1429.6/2

Right Out: 6759.428 $\pm$ 1.789 χ^2 /NDF: 644290.9/18

Left In: 9300.263 $\pm$ 5.030 χ^2 /NDF:20471.7/1

Left: 9023.403 $\pm$ 3.298 χ^2 /NDF: 27213.8/4

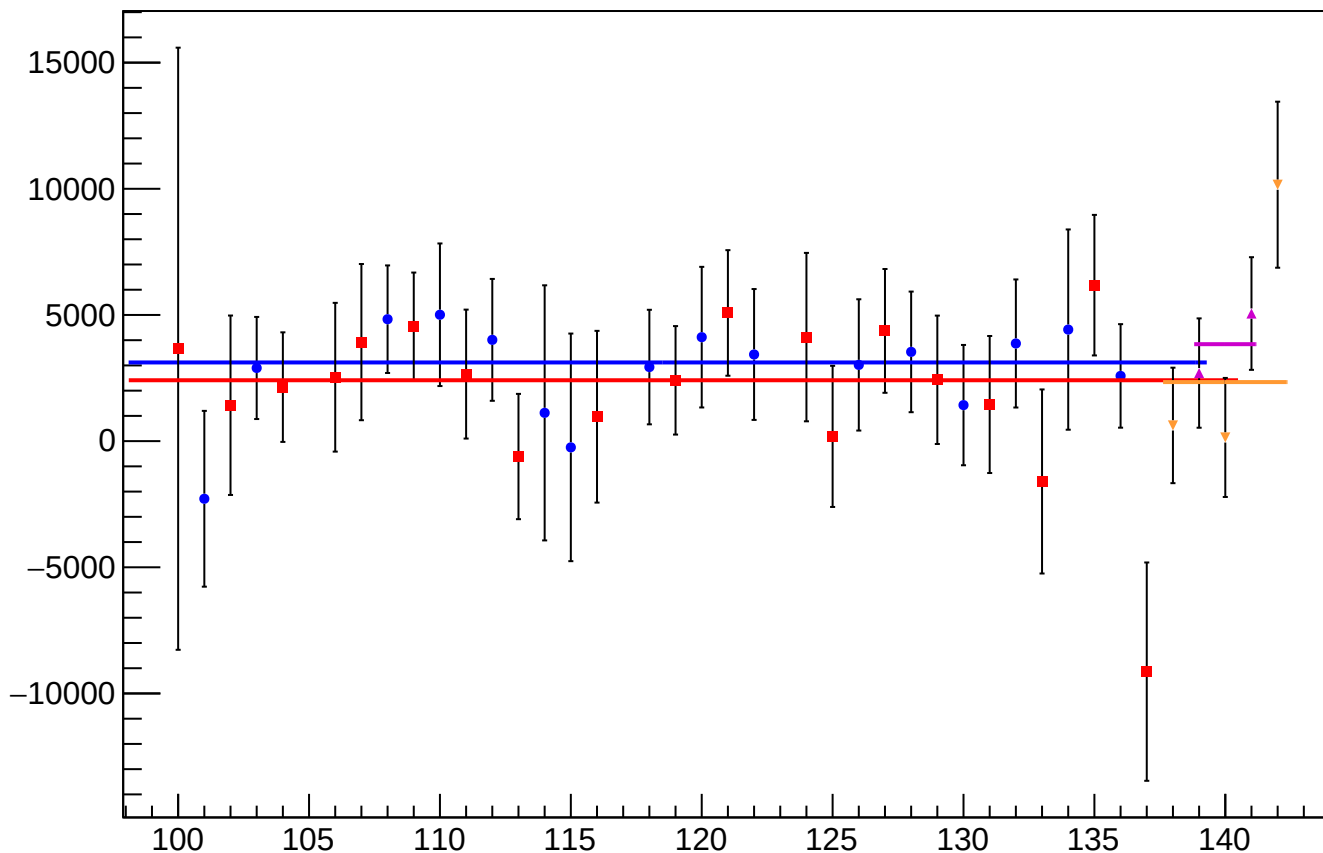
Right: 7044.612 $\pm$ 1.327 χ^2 /NDF: 1102650.4/34

In: 7649.094 $\pm$ 1.841 χ^2 /NDF:546707.0/17

Out: 7054.623 $\pm$ 1.655 χ^2 /NDF:835360.6/21

All: 7320.299 $\pm$ 1.231 χ^2 /NDF: 1439714.0/39

eigen_dit_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3117.882 $\pm$ 651.118 χ^2 /NDF: 5.3/15

Left Out: 2340.198 $\pm$ 1469.535 χ^2 /NDF: 7.1/2

Right Out: 2412.481 $\pm$ 639.018 χ^2 /NDF: 16.0/18

Left In: 3842.099 $\pm$ 1554.672 χ^2 /NDF: 0.6/1

Left: 3048.900 $\pm$ 1067.948 χ^2 /NDF: 8.1/4

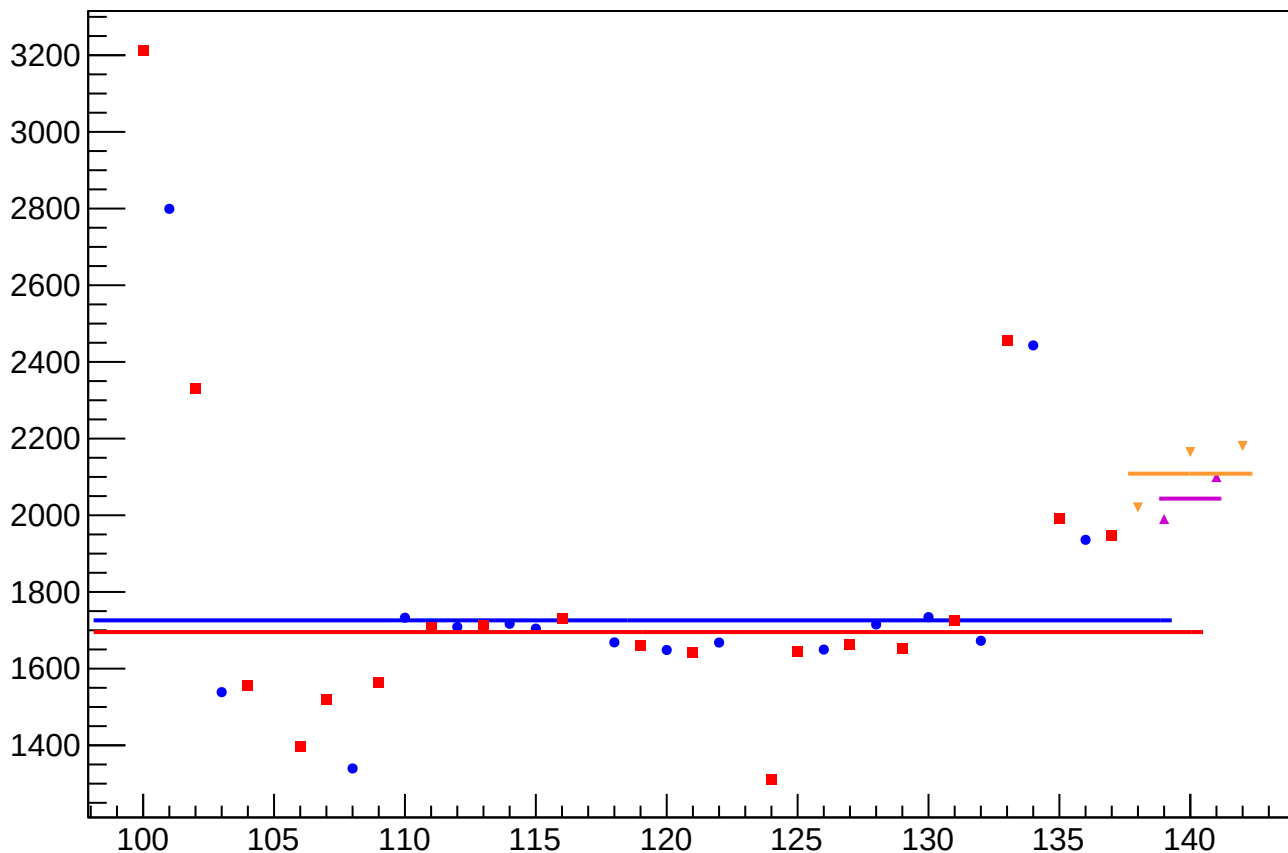
Right: 2758.566 $\pm$ 456.072 χ^2 /NDF: 21.9/34

In: 3225.956 $\pm$ 600.574 χ^2 /NDF: 6.1/17

Out: 2400.987 $\pm$ 586.011 χ^2 /NDF: 23.1/21

All: 2803.348 $\pm$ 419.426 χ^2 /NDF: 30.1/39

eigen_dit_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1725.910+/-0.460 χ^2/NDF : 365639.0/15

Left Out: 2108.454+/-1.039 χ^2/NDF : 5070.0/2

Right Out: 1695.387+/-0.452 χ^2/NDF : 285622.3/18

Left In: 2043.424+/-1.099 χ^2/NDF : 2475.4/1

Left: 2077.768+/-0.755 χ^2/NDF : 9393.6/4

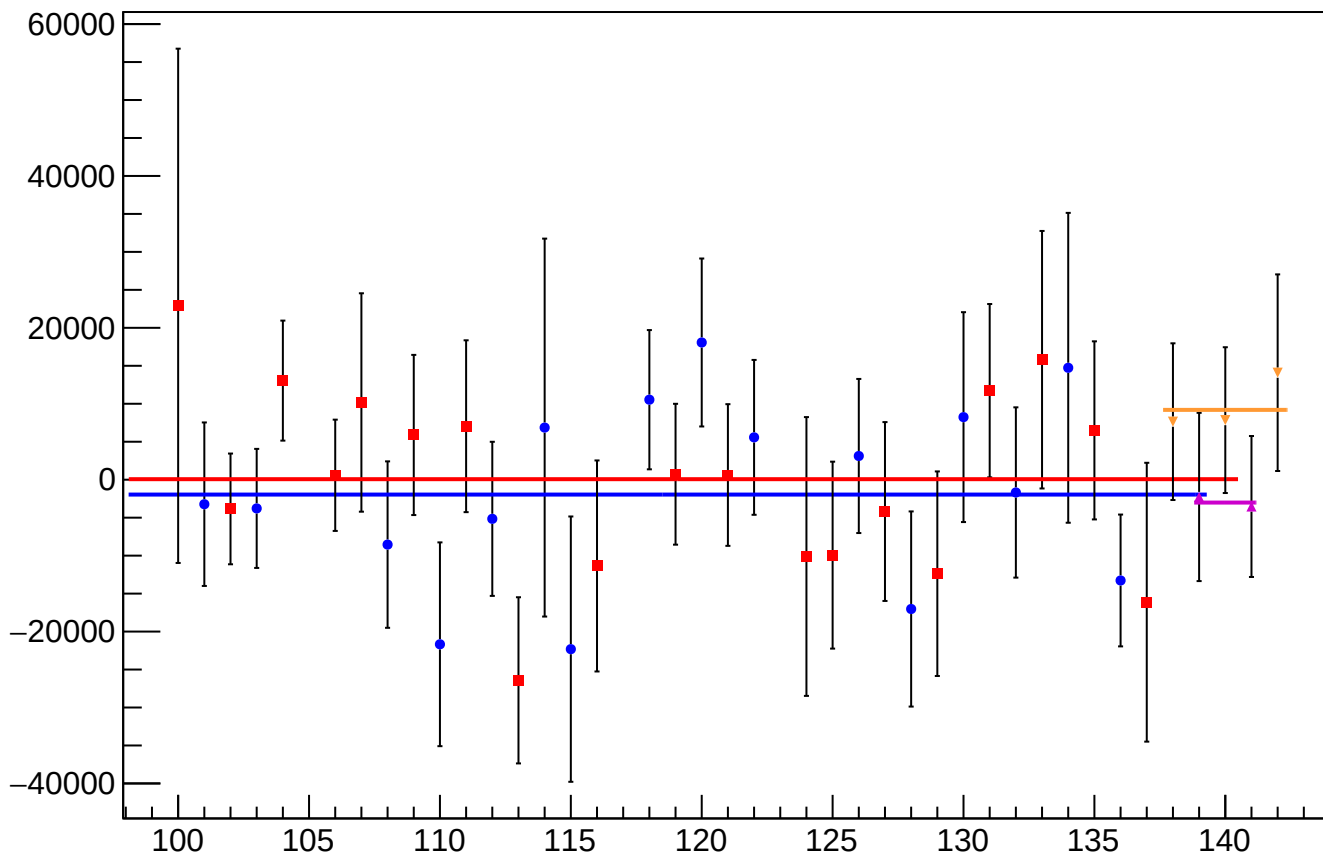
Right: 1710.357+/-0.322 χ^2/NDF : 653500.9/34

In: 1773.293+/-0.425 χ^2/NDF : 439086.7/17

Out: 1761.032+/-0.414 χ^2/NDF : 423599.6/21

All: 1767.010+/-0.297 χ^2/NDF : 863113.5/39

asym_at2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1958.538 $\pm$ 2798.302 χ^2 /NDF: 14.4/15

Left Out: 9194.321 $\pm$ 6176.633 χ^2 /NDF:0.2/2

Right Out: 68.163 $\pm$ 2529.521 χ^2 /NDF: 16.1/18

Left In: -3011.618 $\pm$ 7114.116 χ^2 /NDF:0.0/1

Left: 3948.053 $\pm$ 4664.022 χ^2 /NDF: 1.9/4

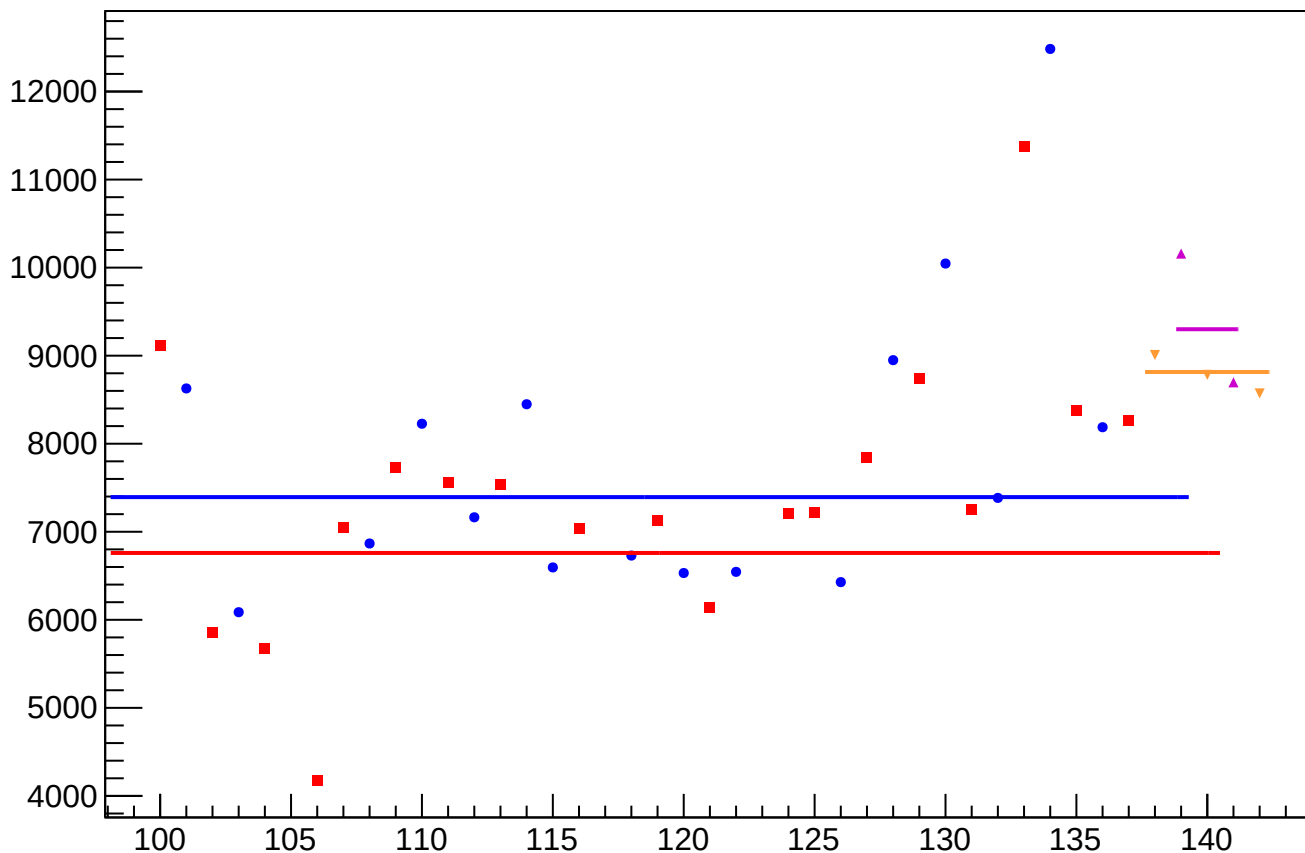
Right: -843.203 $\pm$ 1876.490 χ^2 /NDF: 30.8/34

In: -2099.640 $\pm$ 2604.091 χ^2 /NDF:14.4/17

Out: 1378.926 $\pm$ 2340.830 χ^2 /NDF:18.2/21

All: -175.686 $\pm$ 1740.873 χ^2 /NDF: 33.6/39

asym_at2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 7393.605 $\pm$ 1.979 χ^2 /NDF: 401829.0/15

Left Out: 8814.717 $\pm$ 4.368 χ^2 /NDF:1429.6/2

Right Out: 6759.413 $\pm$ 1.789 χ^2 /NDF: 644289.7/18

Left In: 9300.277 $\pm$ 5.030 χ^2 /NDF:20472.3/1

Left: 9023.417 $\pm$ 3.298 χ^2 /NDF: 27214.3/4

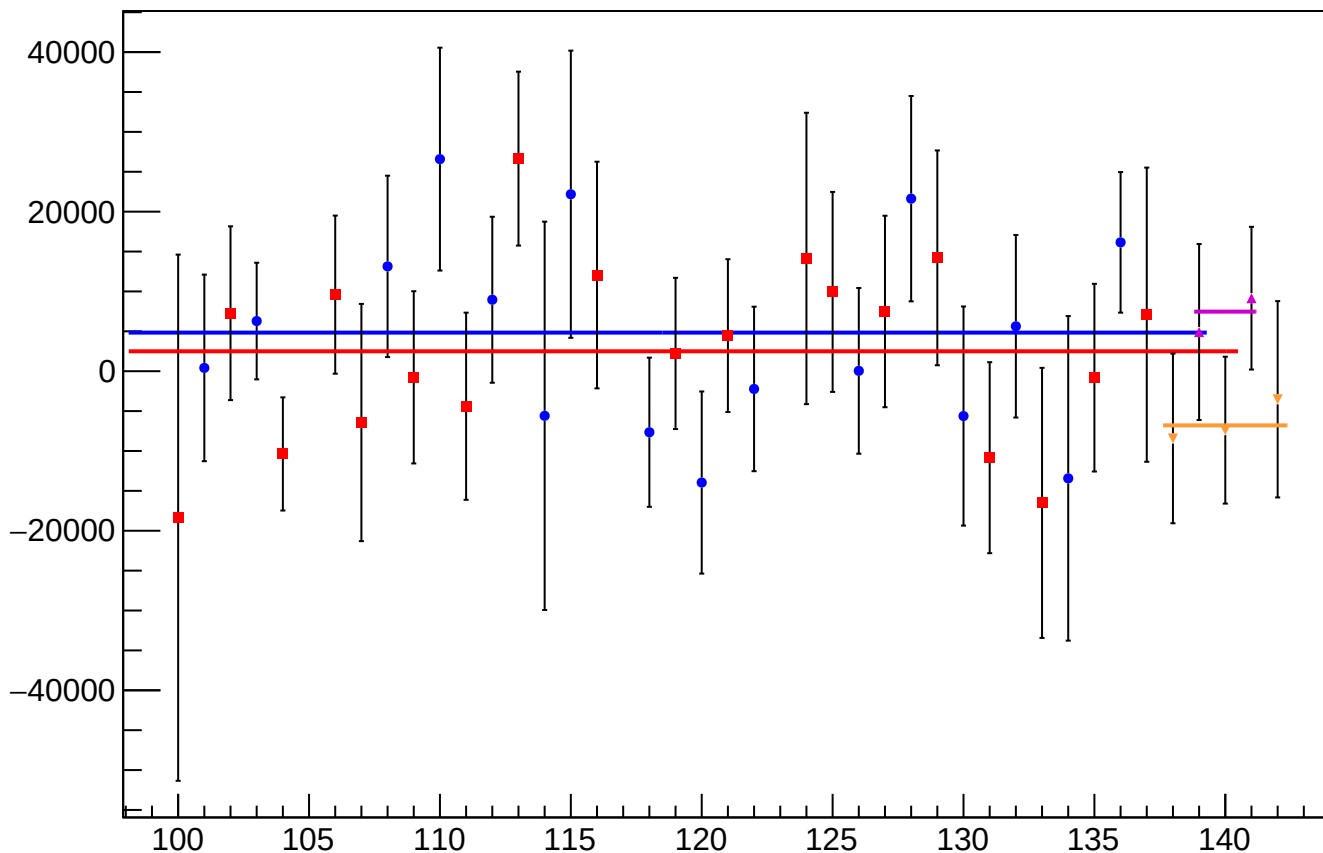
Right: 7044.596 $\pm$ 1.327 χ^2 /NDF: 1102651.2/34

In: 7649.079 $\pm$ 1.841 χ^2 /NDF:546713.6/17

Out: 7054.610 $\pm$ 1.655 χ^2 /NDF:835364.4/21

All: 7320.285 $\pm$ 1.231 χ^2 /NDF: 1439724.0/39

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 4837.820+/-2828.918 χ^2/NDF : 14.3/15

Left Out: -6790.939+/-6057.644 χ^2/NDF : 0.1/2

Right Out: 2495.844+/-2695.530 χ^2/NDF : 14.9/18

Left In: 7468.997+/-6947.646 χ^2/NDF : 0.1/1

Left: -632.285+/-4565.852 χ^2/NDF : 2.6/4

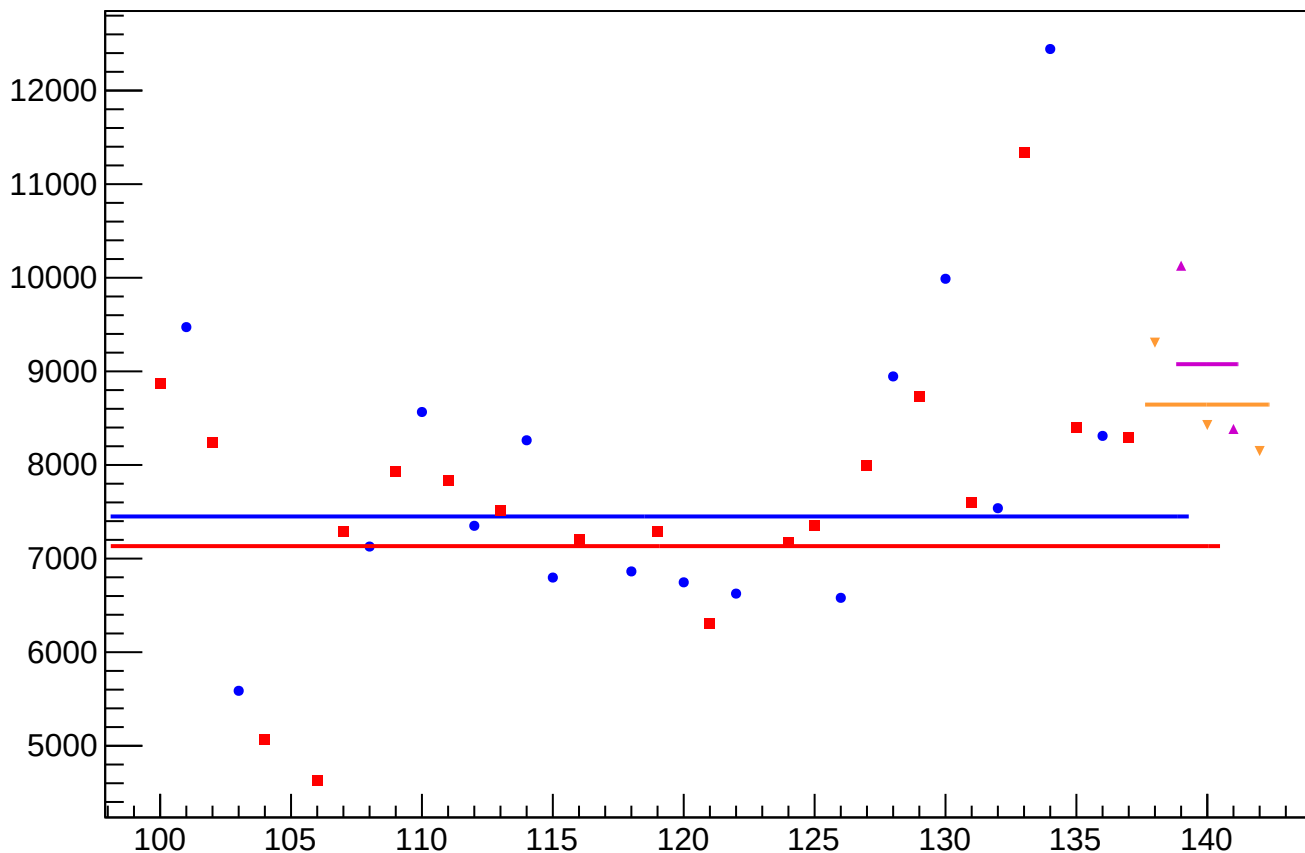
Right: 3610.318+/-1951.480 χ^2/NDF : 29.6/34

In: 5212.012+/-2620.050 χ^2/NDF : 14.5/17

Out: 960.920+/-2462.717 χ^2/NDF : 17.0/21

All: 2955.002+/-1794.448 χ^2/NDF : 32.9/39

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 7449.985+/-2.000 χ^2/NDF : 486427.7/15

Left Out: 8645.146+/-4.283 χ^2/NDF : 12119.8/2

Right Out: 7133.115+/-1.906 χ^2/NDF : 556993.0/18

Left In: 9076.745+/-4.913 χ^2/NDF : 30154.2/1

Left: 8831.547+/-3.229 χ^2/NDF : 46658.8/4

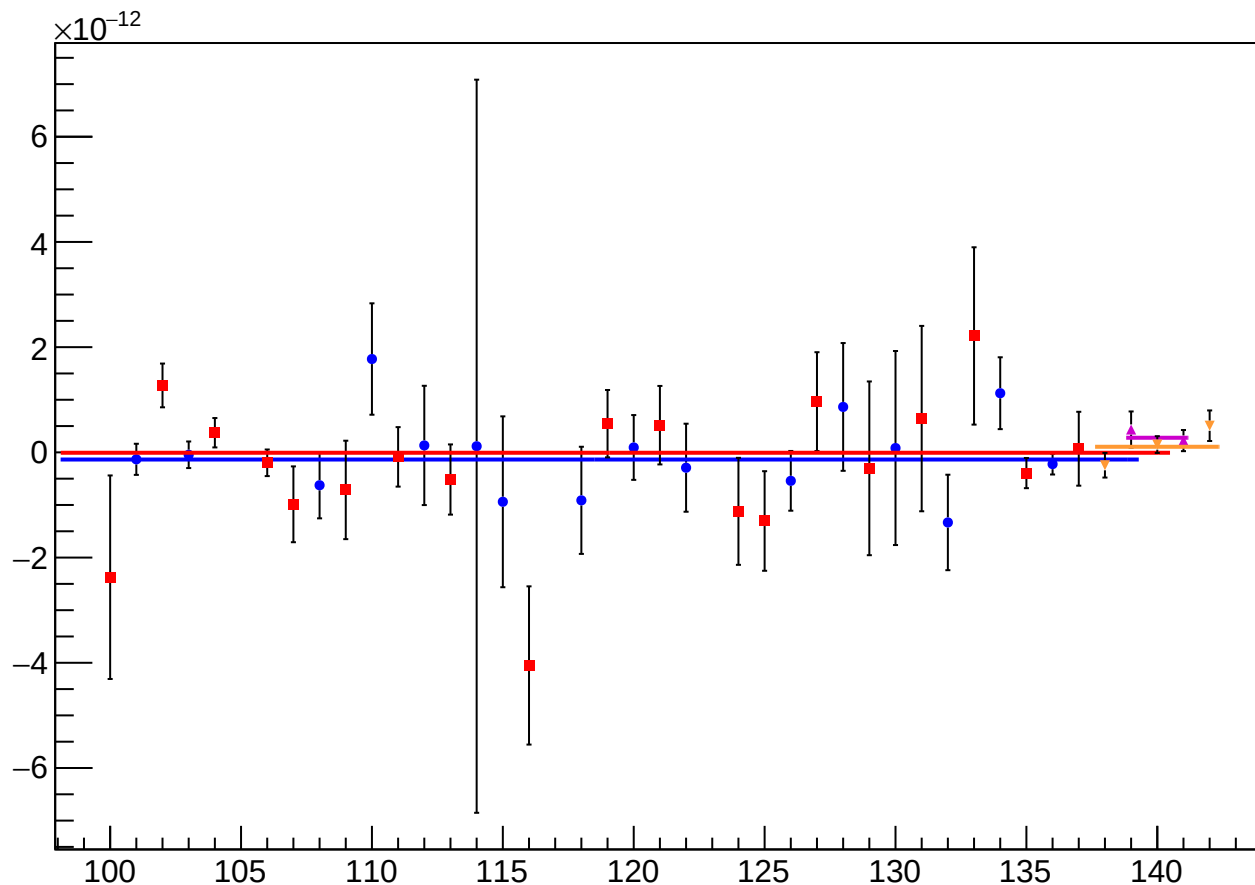
Right: 7283.894+/-1.380 χ^2/NDF : 1056573.7/34

In: 7681.331+/-1.853 χ^2/NDF : 610636.8/17

Out: 7382.995+/-1.741 χ^2/NDF : 673127.5/21

All: 7522.929+/-1.269 χ^2/NDF : 1297532.6/39

asym_at2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 11.6/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 4.2/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 32.8/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.3/1

Left: 0.000 ± 0.000 χ^2/NDF : 5.2/4

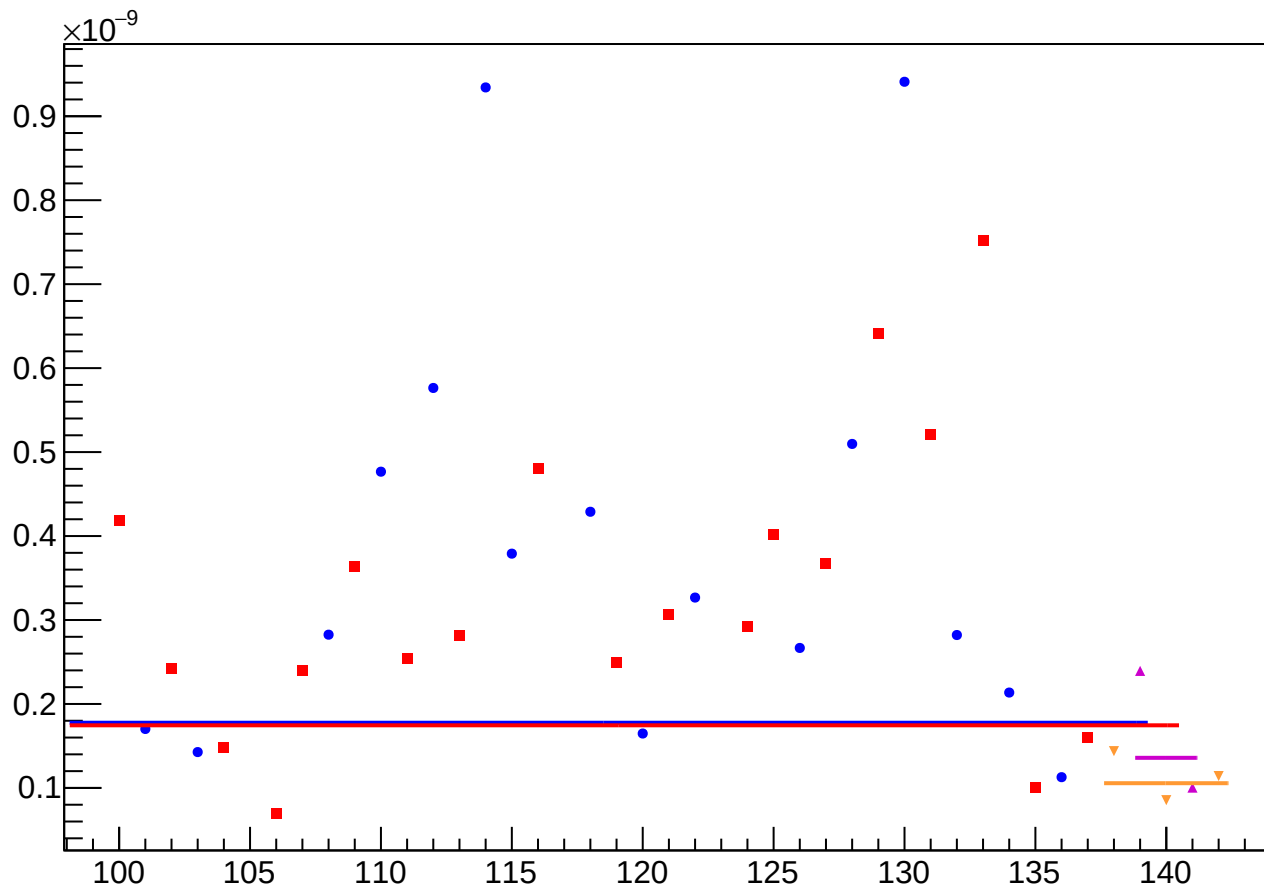
Right: -0.000 ± 0.000 χ^2/NDF : 44.9/34

In: -0.000 ± 0.000 χ^2/NDF : 15.7/17

Out: 0.000 ± 0.000 χ^2/NDF : 37.4/21

All: 0.000 ± 0.000 χ^2/NDF : 53.3/39

asym_at2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1530066.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 86943.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1641366.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 244457.4/1

Left: 0.000+/-0.000 χ^2/NDF : 372504.7/4

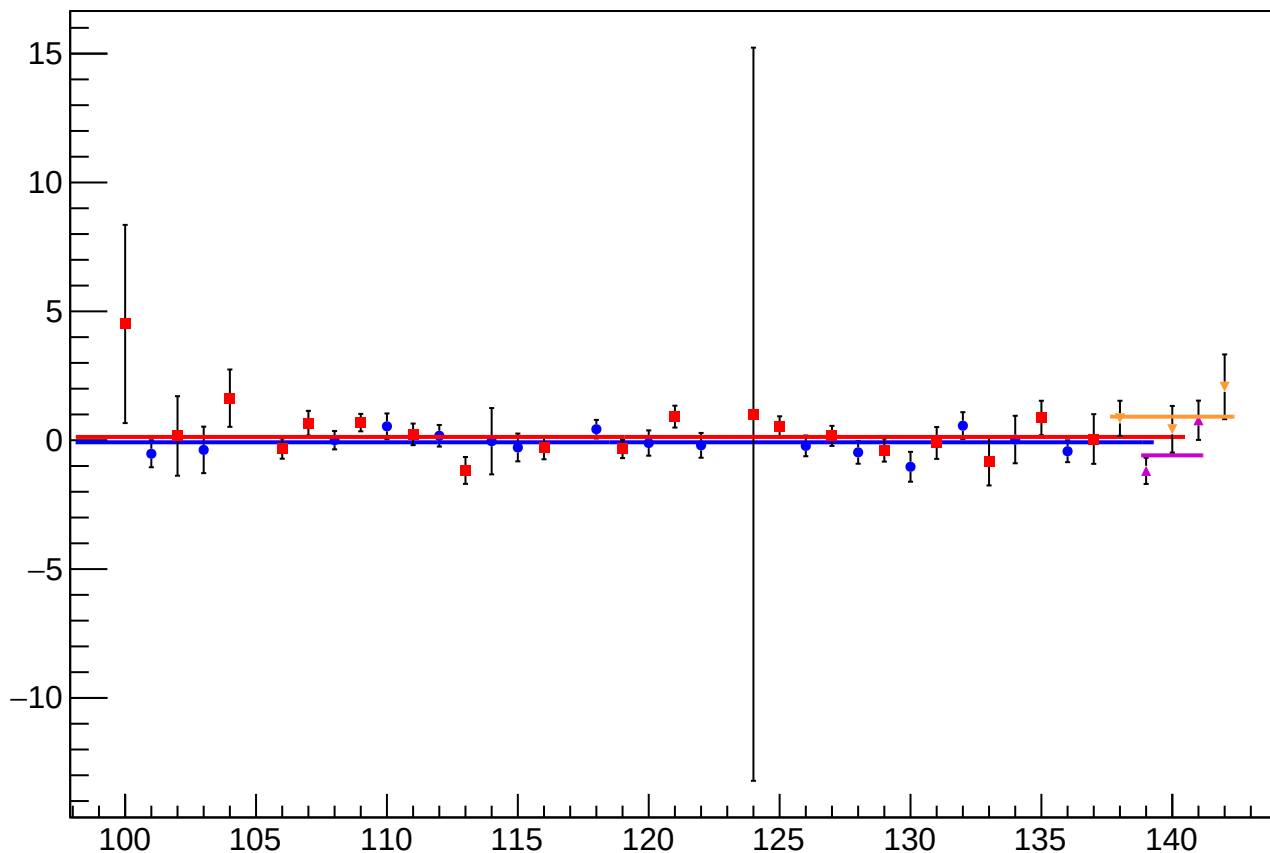
Right: 0.000+/-0.000 χ^2/NDF : 3172068.5/34

In: 0.000+/-0.000 χ^2/NDF : 1853153.1/17

Out: 0.000+/-0.000 χ^2/NDF : 2050362.3/21

All: 0.000+/-0.000 χ^2/NDF : 3976023.4/39

asym_at2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.080 ± 0.122 χ^2/NDF : 10.8/15

Left Out: 0.914 ± 0.499 χ^2/NDF : 1.2/2

Right Out: 0.128 ± 0.117 χ^2/NDF : 25.3/18

Left In: -0.587 ± 0.422 χ^2/NDF : 4.6/1

Left: 0.039 ± 0.322 χ^2/NDF : 11.0/4

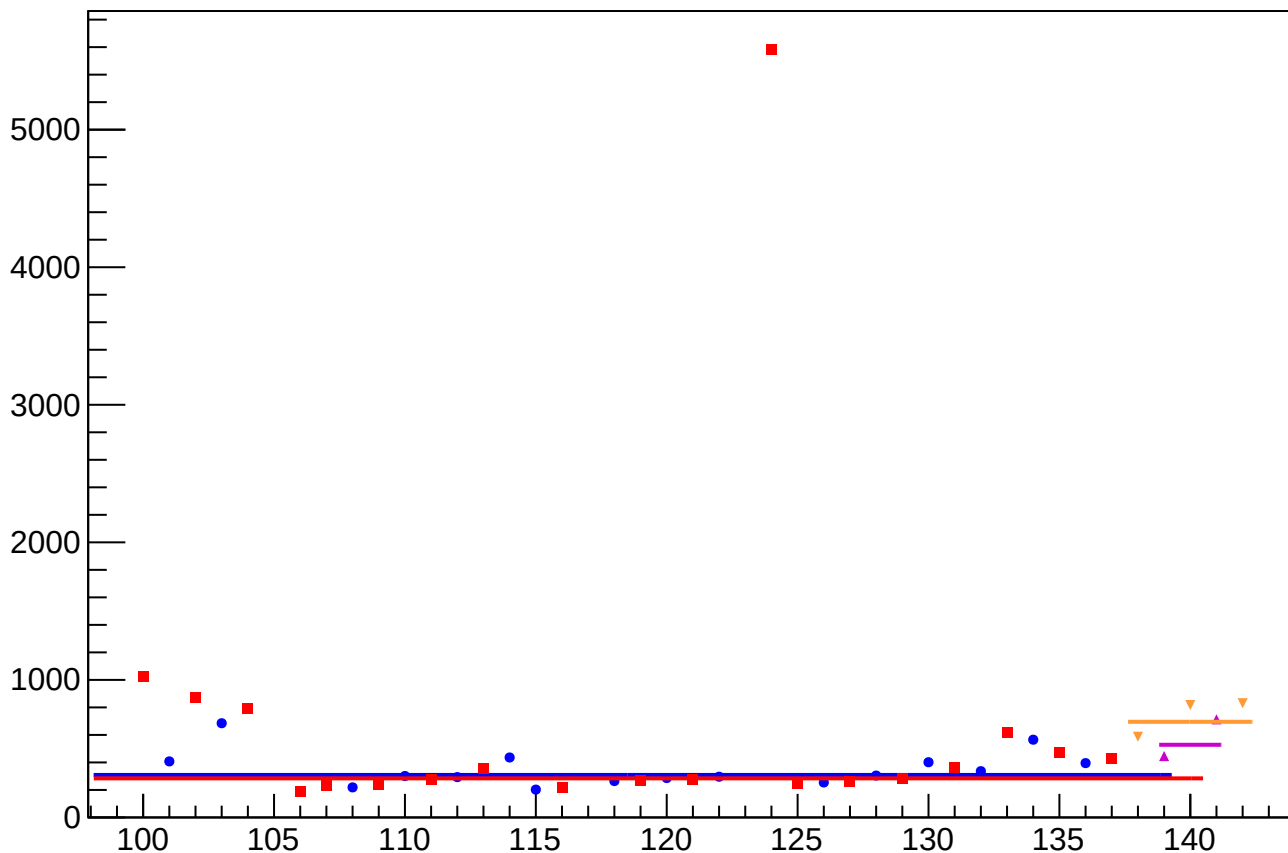
Right: 0.028 ± 0.084 χ^2/NDF : 37.5/34

In: -0.119 ± 0.117 χ^2/NDF : 16.7/17

Out: 0.168 ± 0.114 χ^2/NDF : 28.8/21

All: 0.029 ± 0.082 χ^2/NDF : 48.6/39

asym_at2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 309.093+/-0.086 χ^2/NDF : 1014604.9/15

Left Out: 695.435+/-0.353 χ^2/NDF :110376.4/2

Right Out: 284.189+/-0.083 χ^2/NDF : 1856451.4/18

Left In: 528.296+/-0.299 χ^2/NDF :169923.7/1

Left: 597.980+/-0.228 χ^2/NDF : 410939.9/4

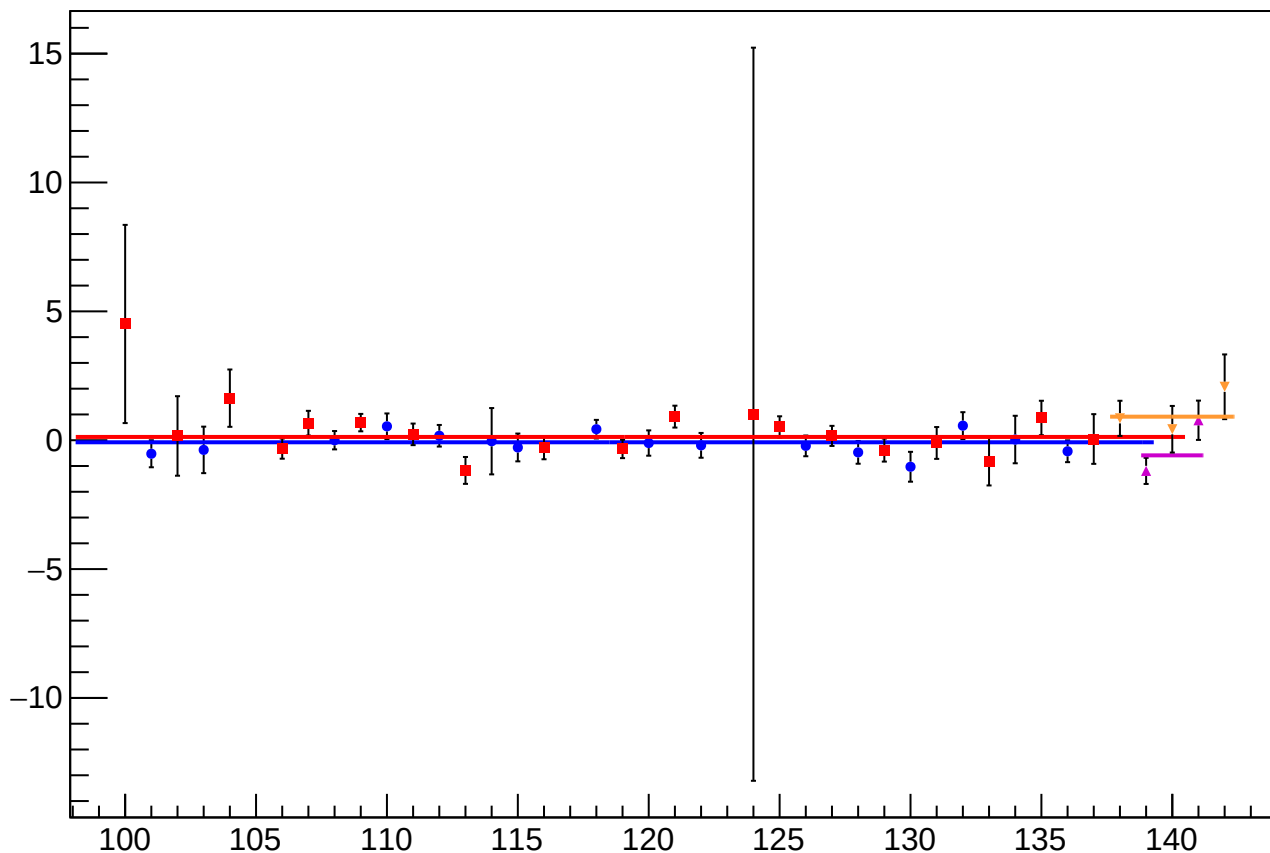
Right: 296.124+/-0.060 χ^2/NDF : 2914551.5/34

In: 325.947+/-0.083 χ^2/NDF :1682044.7/17

Out: 305.558+/-0.080 χ^2/NDF :3252763.5/21

All: 315.465+/-0.058 χ^2/NDF : 4965985.0/39

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.080 ± 0.122 χ^2/NDF : 10.8/15

Left Out: 0.914 ± 0.499 χ^2/NDF : 1.2/2

Right Out: 0.128 ± 0.117 χ^2/NDF : 25.3/18

Left In: -0.587 ± 0.422 χ^2/NDF : 4.6/1

Left: 0.039 ± 0.322 χ^2/NDF : 11.0/4

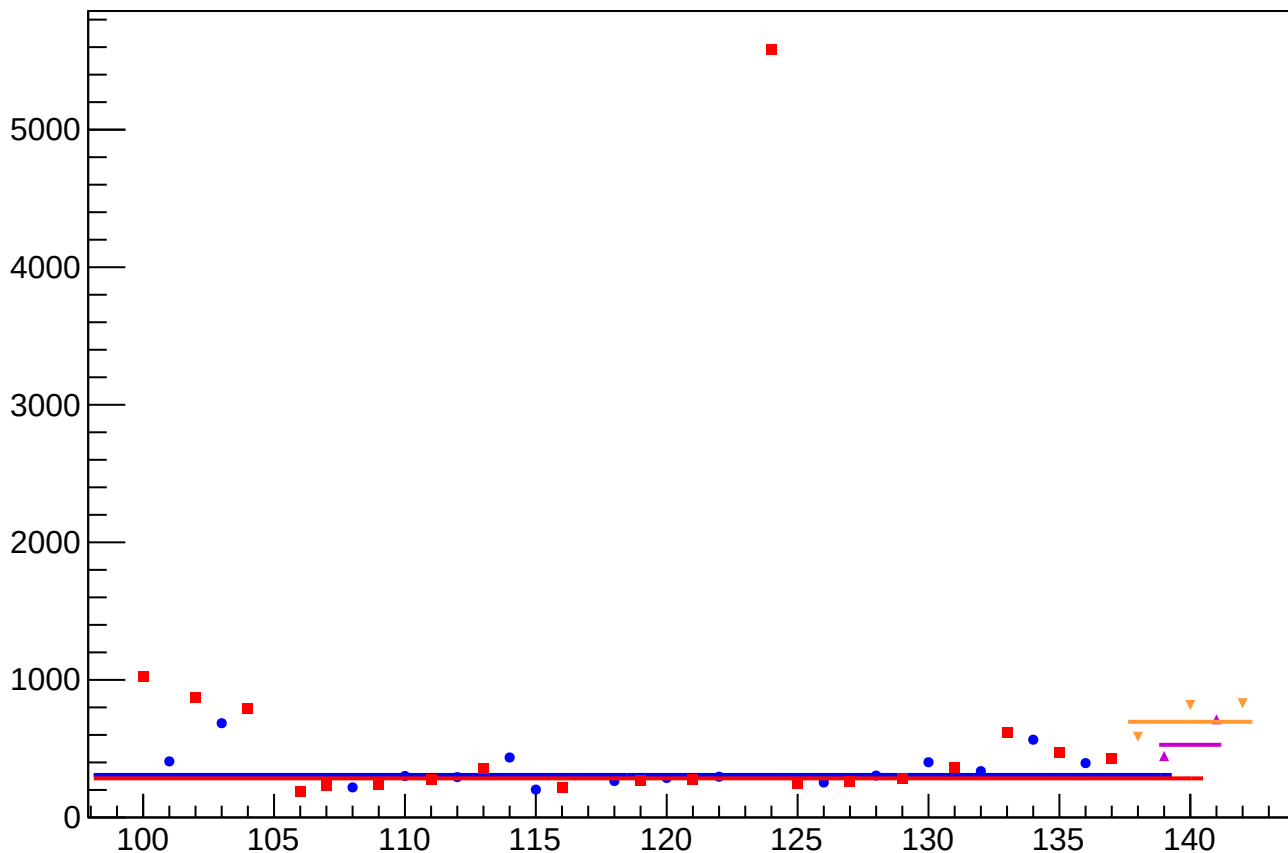
Right: 0.028 ± 0.084 χ^2/NDF : 37.5/34

In: -0.119 ± 0.117 χ^2/NDF : 16.7/17

Out: 0.168 ± 0.114 χ^2/NDF : 28.8/21

All: 0.029 ± 0.082 χ^2/NDF : 48.6/39

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 309.093+/-0.086 χ^2/NDF : 1014604.9/15

Left Out: 695.435+/-0.353 χ^2/NDF :110376.4/2

Right Out: 284.189+/-0.083 χ^2/NDF : 1856451.4/18

Left In: 528.296+/-0.299 χ^2/NDF :169923.7/1

Left: 597.980+/-0.228 χ^2/NDF : 410939.9/4

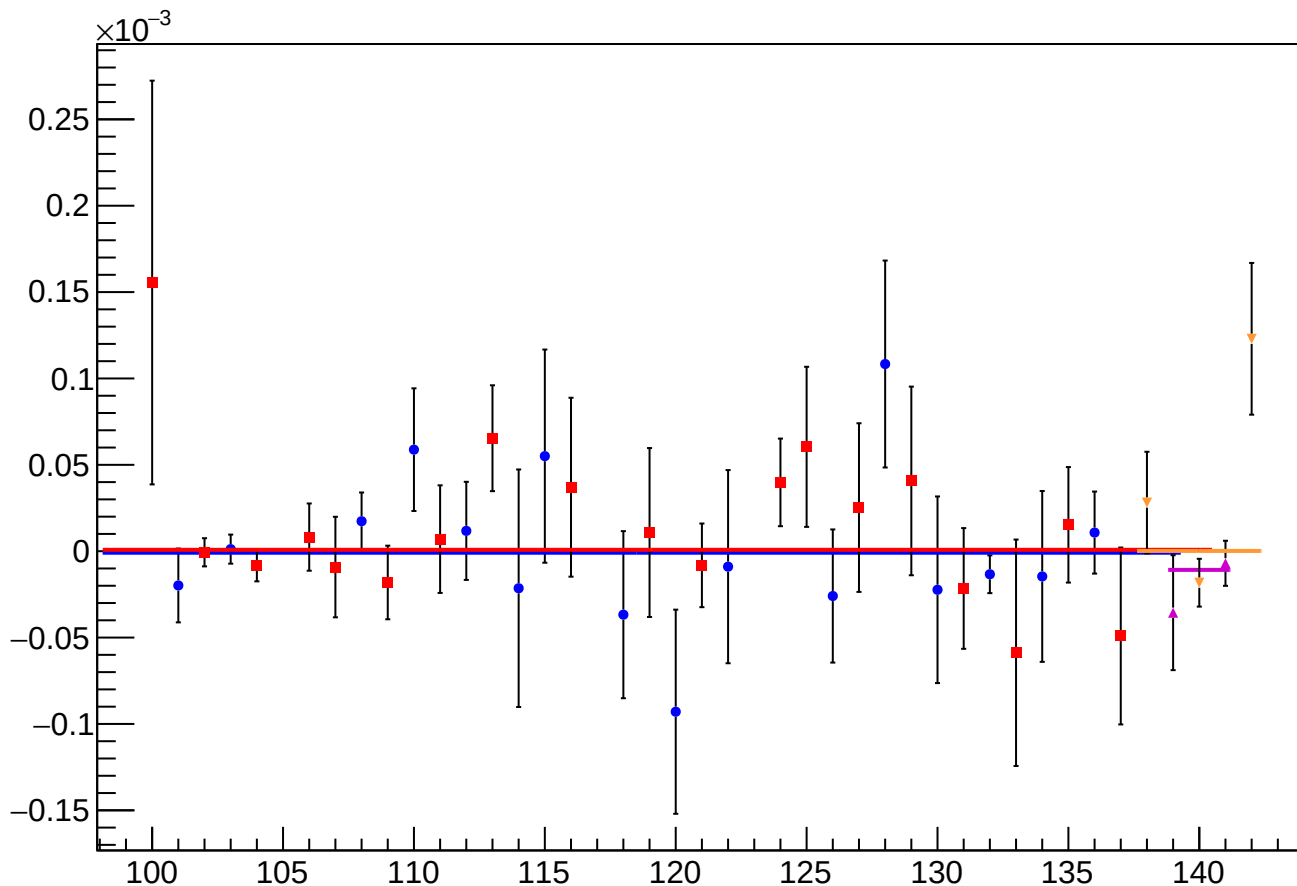
Right: 296.124+/-0.060 χ^2/NDF : 2914551.5/34

In: 325.947+/-0.083 χ^2/NDF :1682044.7/17

Out: 305.558+/-0.080 χ^2/NDF :3252763.5/21

All: 315.465+/-0.058 χ^2/NDF : 4965985.0/39

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 14.5/15

Left Out: 0.000+/-0.000 χ^2 /NDF:10.5/2

Right Out: 0.000+/-0.000 χ^2 /NDF: 16.1/18

Left In: -0.000+/-0.000 χ^2 /NDF:0.6/1

Left: -0.000+/-0.000 χ^2 /NDF: 11.5/4

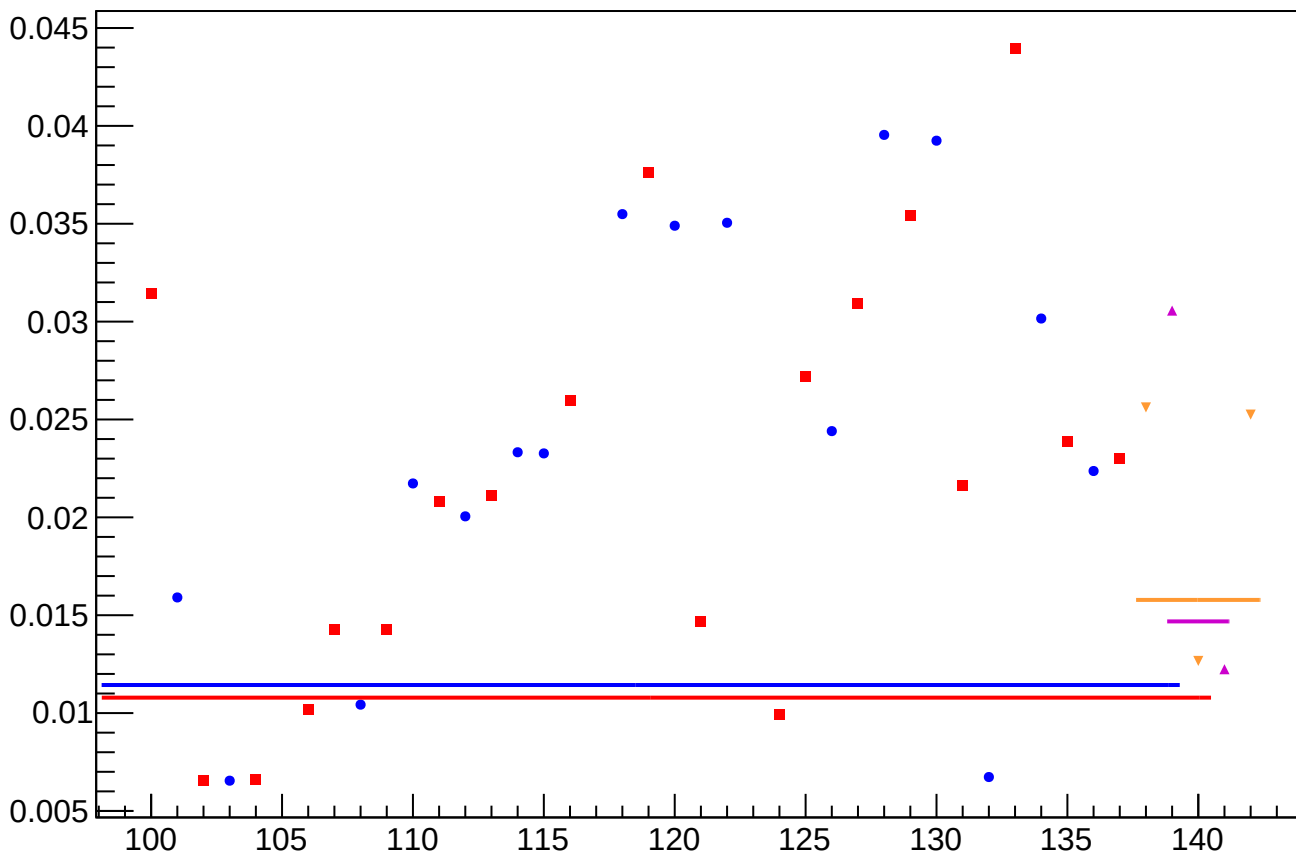
Right: 0.000+/-0.000 χ^2 /NDF: 30.7/34

In: -0.000+/-0.000 χ^2 /NDF:15.7/17

Out: 0.000+/-0.000 χ^2 /NDF:26.6/21

All: -0.000+/-0.000 χ^2 /NDF: 42.6/39

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000

χ^2/NDF : 4699938.2/15

Left Out: 0.016+/-0.000

χ^2/NDF : 418058.5/2

Right Out: 0.011+/-0.000

χ^2/NDF : 4473688.9/18

Left In: 0.015+/-0.000

χ^2/NDF : 526056.1/1

Left: 0.015+/-0.000

χ^2/NDF : 952360.2/4

Right: 0.011+/-0.000

χ^2/NDF : 9189725.1/34

In: 0.012+/-0.000

χ^2/NDF : 5346099.9/17

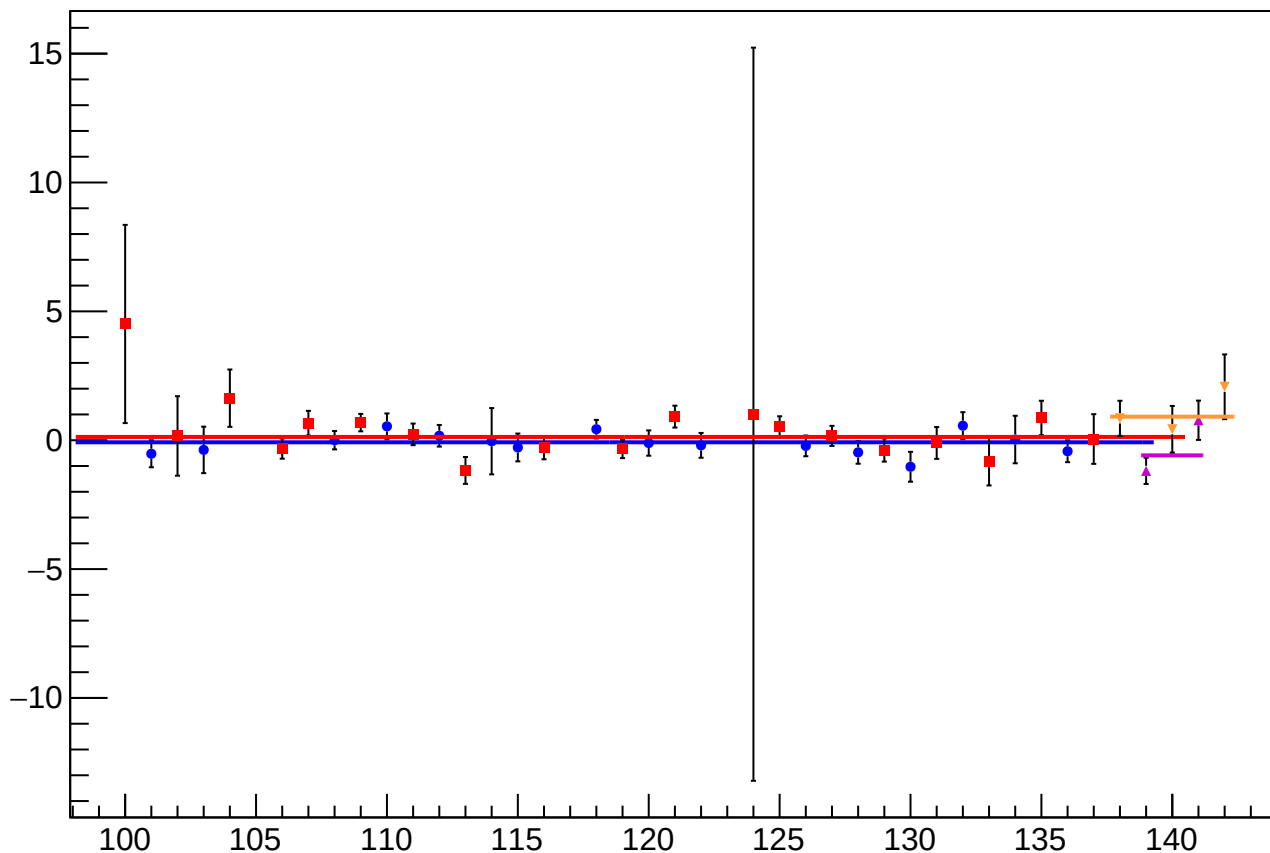
Out: 0.011+/-0.000

χ^2/NDF : 5187686.9/21

All: 0.012+/-0.000

χ^2/NDF : 10544003.7/39

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.080 ± 0.122 χ^2/NDF : 10.8/15

Left Out: 0.914 ± 0.499 χ^2/NDF : 1.2/2

Right Out: 0.128 ± 0.117 χ^2/NDF : 25.3/18

Left In: -0.587 ± 0.422 χ^2/NDF : 4.6/1

Left: 0.039 ± 0.322 χ^2/NDF : 11.0/4

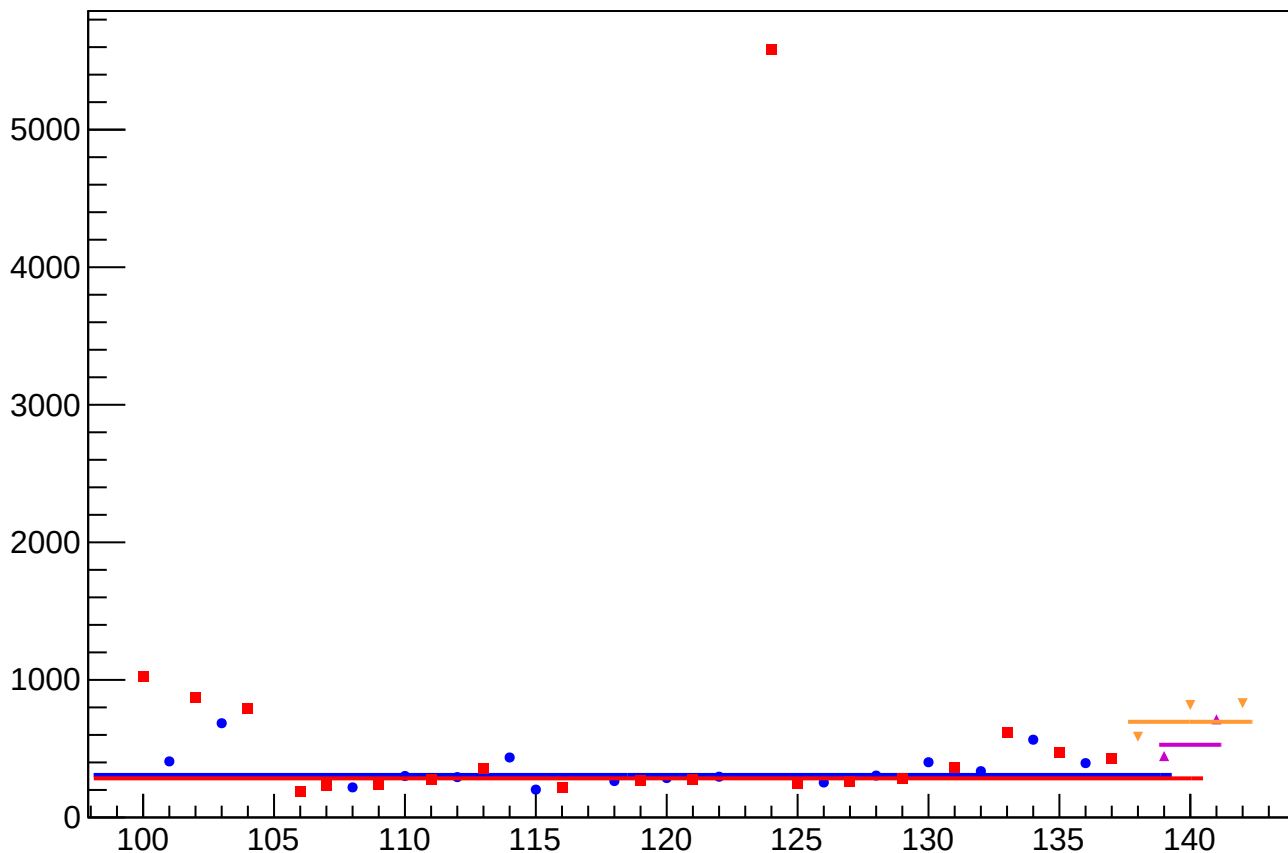
Right: 0.028 ± 0.084 χ^2/NDF : 37.5/34

In: -0.119 ± 0.117 χ^2/NDF : 16.7/17

Out: 0.168 ± 0.114 χ^2/NDF : 28.8/21

All: 0.029 ± 0.082 χ^2/NDF : 48.6/39

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 309.093+/-0.086 χ^2/NDF : 1014573.4/15

Left Out: 695.442+/-0.353 χ^2/NDF :110375.3/2

Right Out: 284.188+/-0.083 χ^2/NDF : 1856434.1/18

Left In: 528.306+/-0.299 χ^2/NDF :169911.8/1

Left: 597.989+/-0.228 χ^2/NDF : 410918.6/4

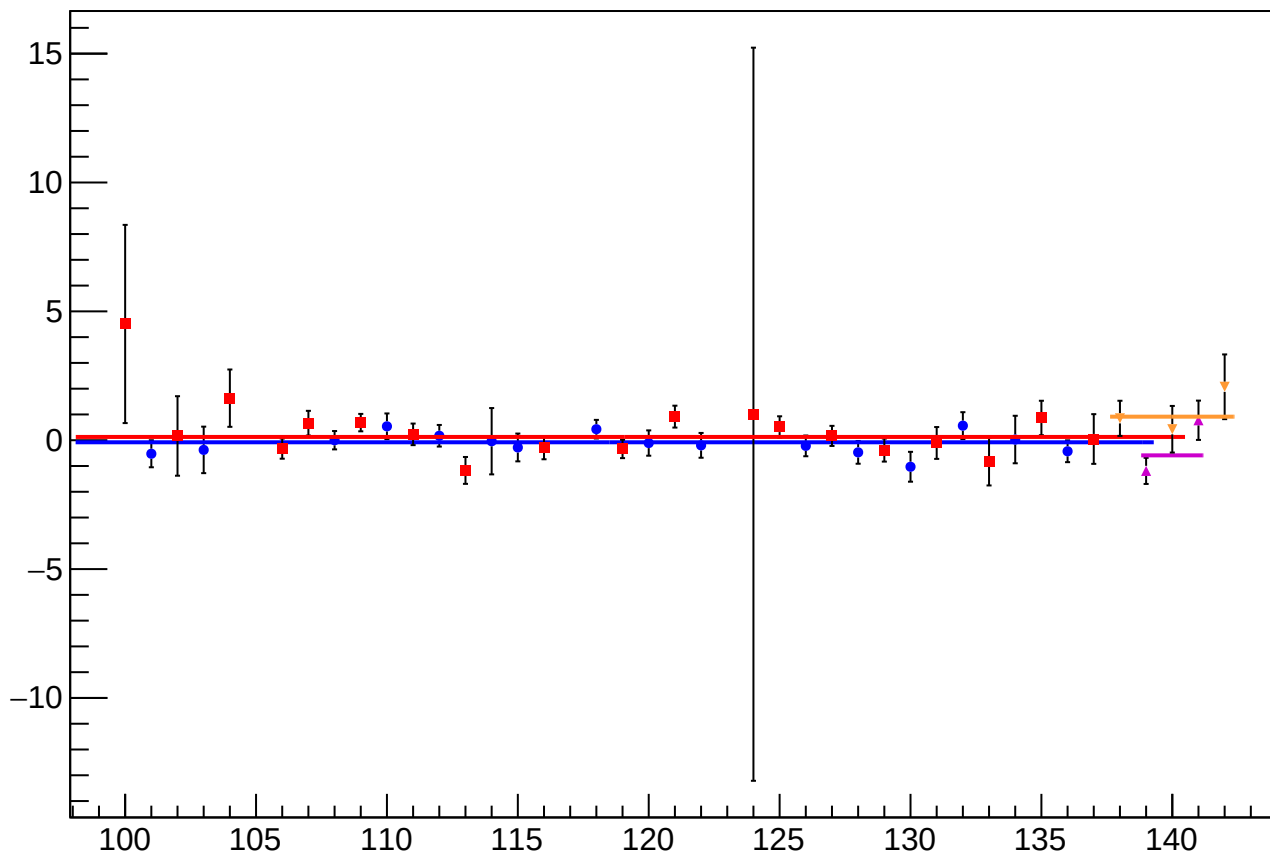
Right: 296.124+/-0.060 χ^2/NDF : 2914502.7/34

In: 325.947+/-0.083 χ^2/NDF :1682034.6/17

Out: 305.558+/-0.080 χ^2/NDF :3252770.1/21

All: 315.465+/-0.058 χ^2/NDF : 4965982.2/39

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.080 ± 0.122 χ^2/NDF : 10.8/15

Left Out: 0.914 ± 0.499 χ^2/NDF : 1.2/2

Right Out: 0.128 ± 0.117 χ^2/NDF : 25.3/18

Left In: -0.587 ± 0.422 χ^2/NDF : 4.6/1

Left: 0.039 ± 0.322 χ^2/NDF : 11.0/4

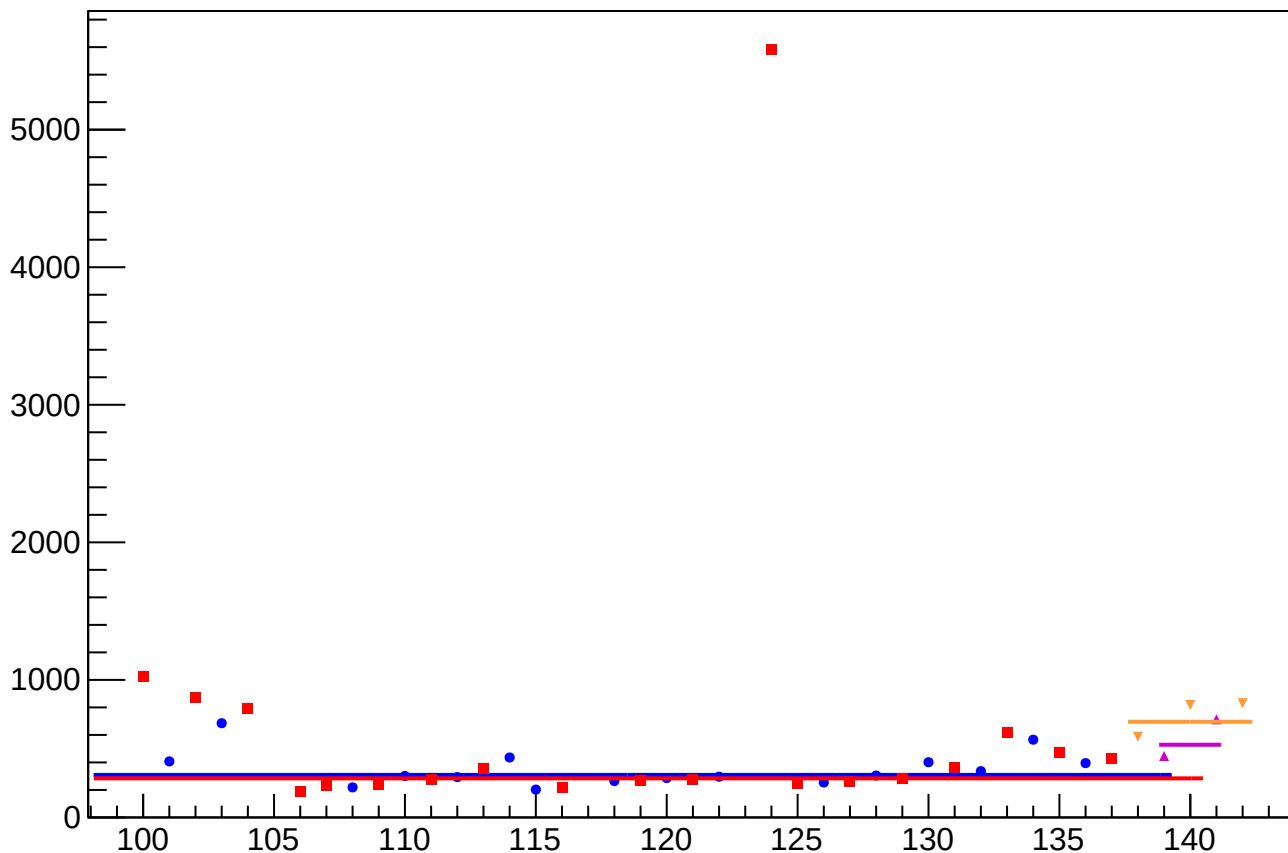
Right: 0.028 ± 0.084 χ^2/NDF : 37.5/34

In: -0.119 ± 0.117 χ^2/NDF : 16.7/17

Out: 0.168 ± 0.114 χ^2/NDF : 28.8/21

All: 0.029 ± 0.082 χ^2/NDF : 48.6/39

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 309.093+/-0.086 χ^2/NDF : 1014573.4/15

Left Out: 695.442+/-0.353 χ^2/NDF :110375.3/2

Right Out: 284.188+/-0.083 χ^2/NDF : 1856434.1/18

Left In: 528.306+/-0.299 χ^2/NDF :169911.8/1

Left: 597.989+/-0.228 χ^2/NDF : 410918.6/4

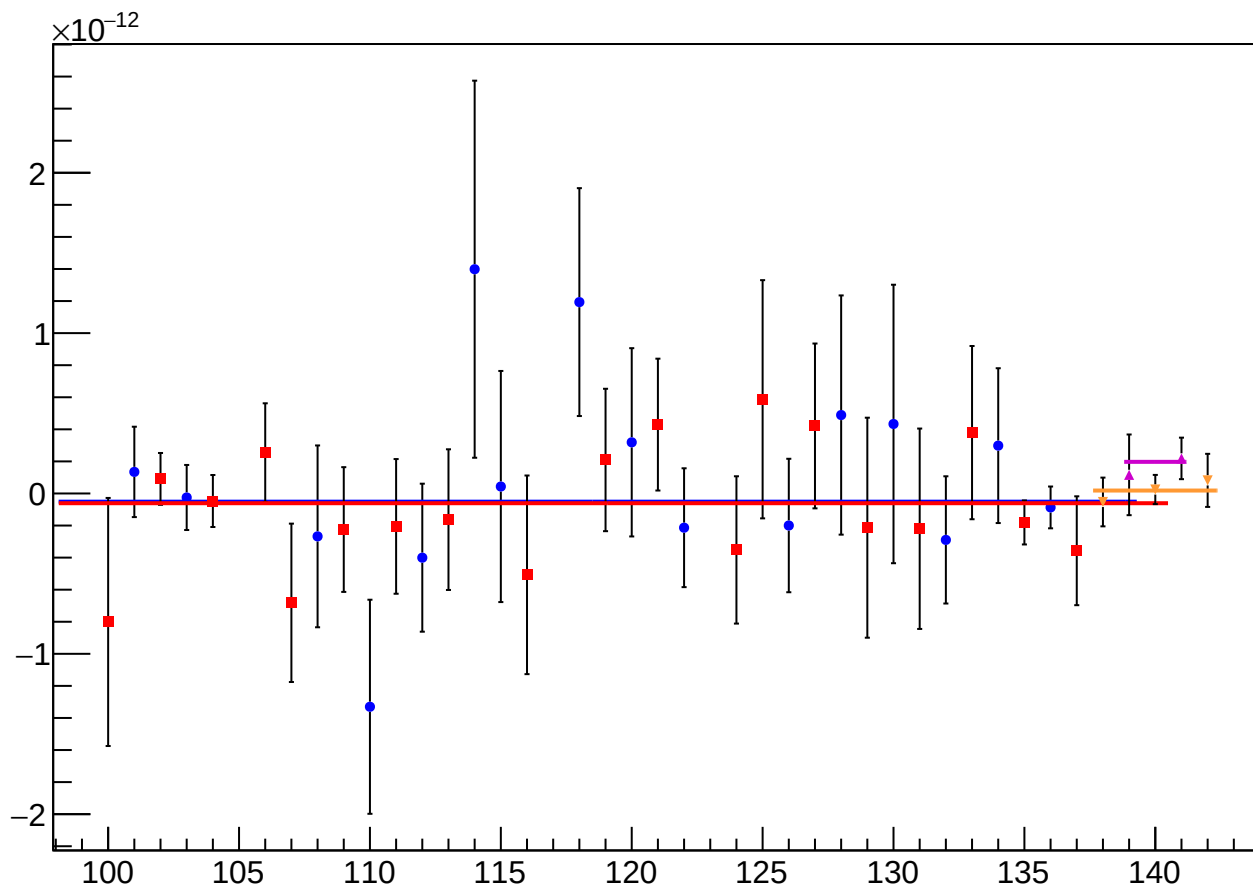
Right: 296.124+/-0.060 χ^2/NDF : 2914502.7/34

In: 325.947+/-0.083 χ^2/NDF :1682034.6/17

Out: 305.558+/-0.080 χ^2/NDF :3252770.1/21

All: 315.465+/-0.058 χ^2/NDF : 4965982.2/39

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 12.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.4/2

Right Out: -0.000+/-0.000 χ^2/NDF : 11.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.1/1

Left: 0.000+/-0.000 χ^2/NDF : 2.3/4

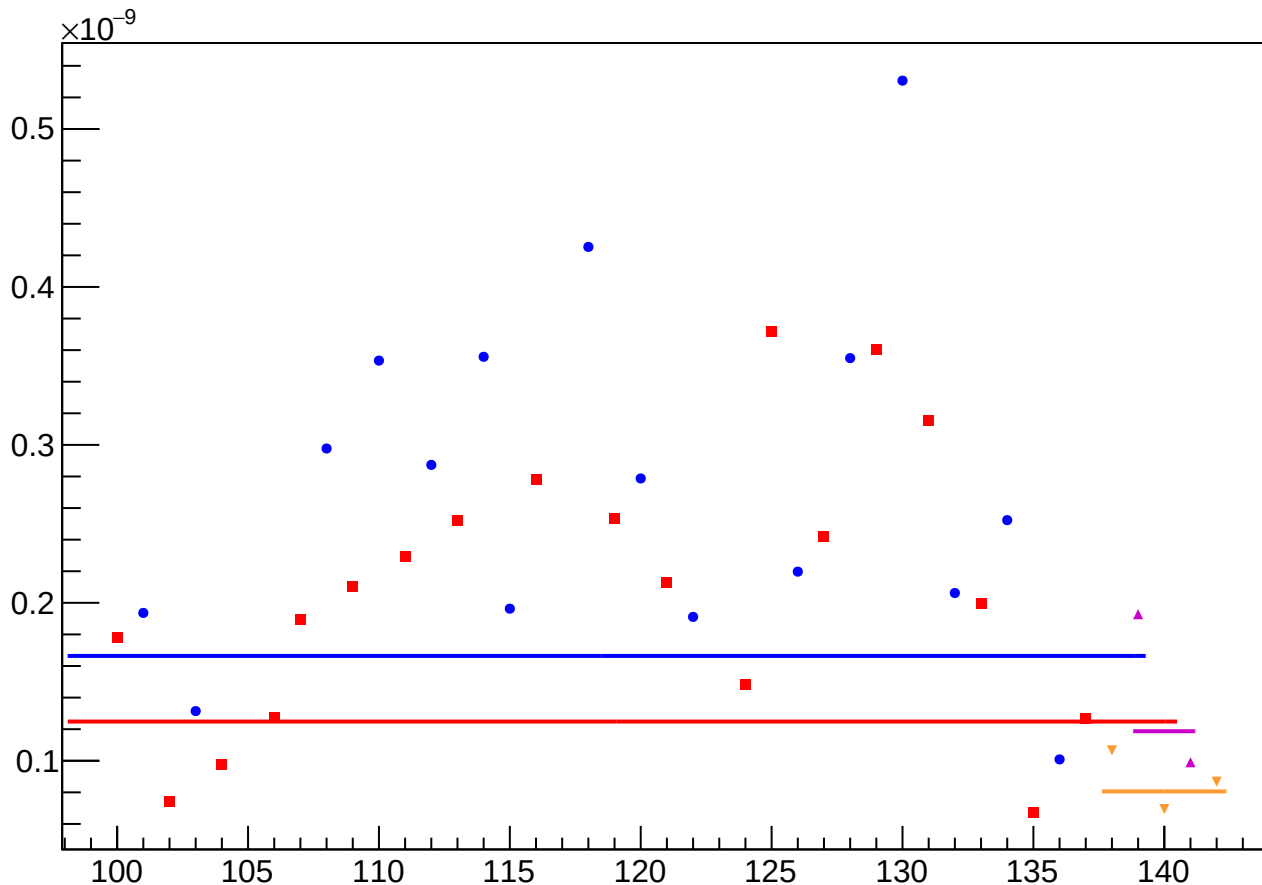
Right: -0.000+/-0.000 χ^2/NDF : 23.4/34

In: 0.000+/-0.000 χ^2/NDF : 15.1/17

Out: -0.000+/-0.000 χ^2/NDF : 12.5/21

All: -0.000+/-0.000 χ^2/NDF : 28.0/39

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1984237.3/15

Left Out: 0.000+/-0.000 $\chi^2/\text{NDF}: 91470.9/2$

Right Out: 0.000+/-0.000 χ^2/NDF : 2209554.2/18

Left In: 0.000+/-0.000 $\chi^2/\text{NDF}: 219577.7/1$

Left: 0.000+/-0.000 χ^2/NDF : 470280.2/4

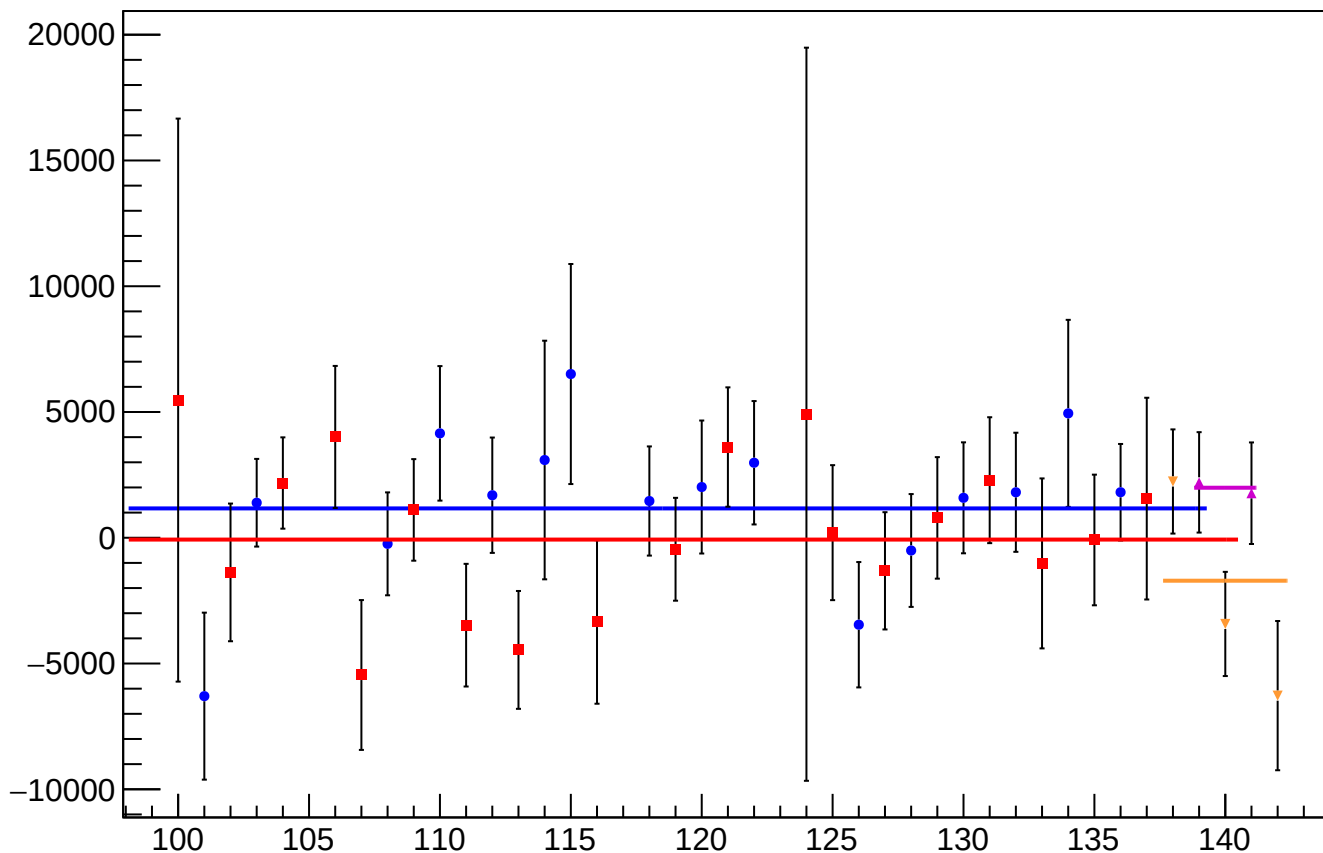
Right: 0.000+/-0.000 χ^2/NDF : 4480530.9/34

In: 0.000+/-0.000 χ^2/NDF :2426838.3/17

Out: 0.000+/-0.000 χ^2/NDF :2696648.4/21

All: 0.000+/-0.000 χ^2/NDF : 5739344.7/39

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1166.862 $\pm$ 609.171 χ^2 /NDF: 14.4/15

Left Out: -1707.777 $\pm$ 1313.235 χ^2 /NDF: 6.7/2

Right Out: -72.181 $\pm$ 603.362 χ^2 /NDF: 18.3/18

Left In: 1989.033 $\pm$ 1419.510 χ^2 /NDF: 0.0/1

Left: -2.921 $\pm$ 963.981 χ^2 /NDF: 10.4/4

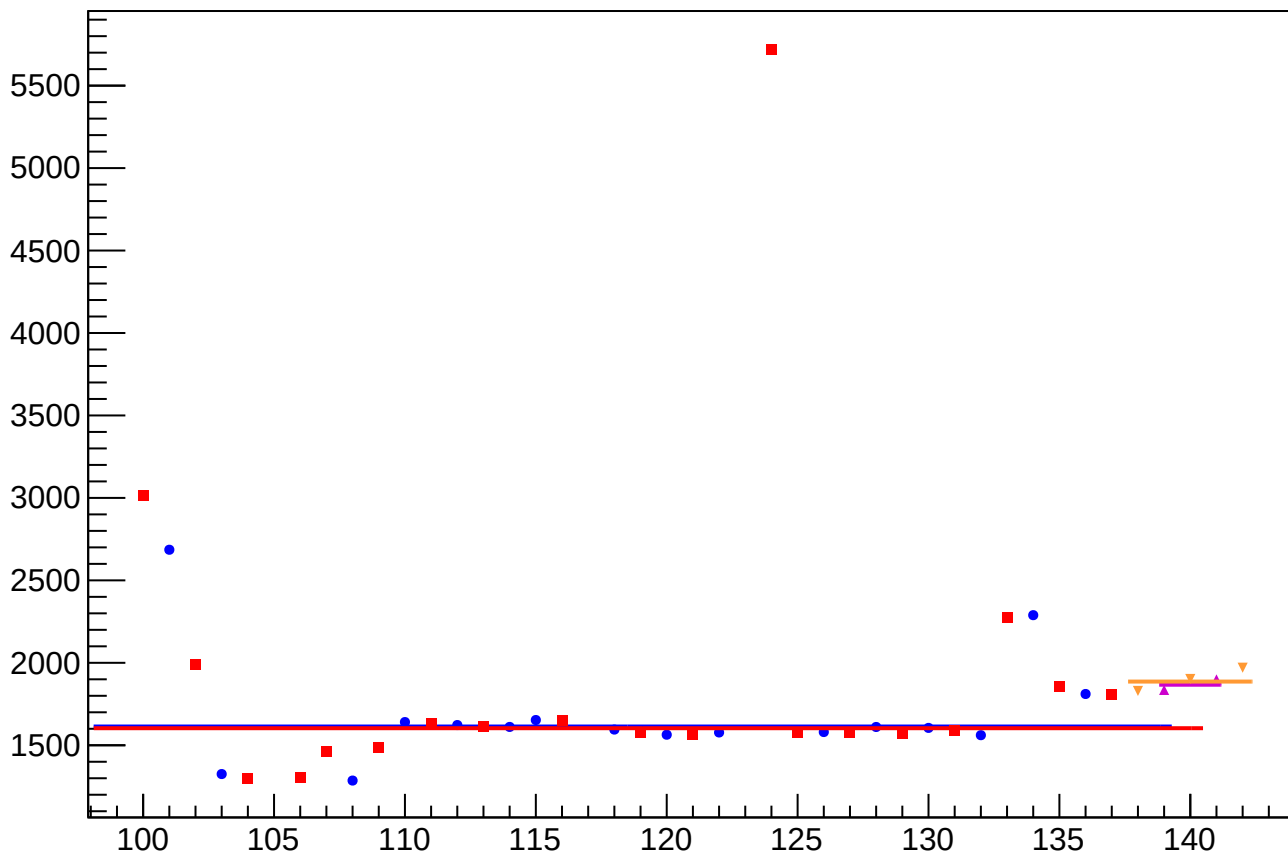
Right: 541.404 $\pm$ 428.680 χ^2 /NDF: 34.8/34

In: 1294.727 $\pm$ 559.801 χ^2 /NDF: 14.7/17

Out: -357.263 $\pm$ 548.263 χ^2 /NDF: 26.3/21

All: 451.533 $\pm$ 391.696 χ^2 /NDF: 45.4/39

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1613.674+/-0.431 χ^2/NDF : 404688.5/15

Left Out: 1886.277+/-0.929 χ^2/NDF : 3224.7/2

Right Out: 1603.464+/-0.427 χ^2/NDF : 425793.5/18

Left In: 1867.217+/-1.004 χ^2/NDF : 1013.3/1

Left: 1877.487+/-0.682 χ^2/NDF : 4432.3/4

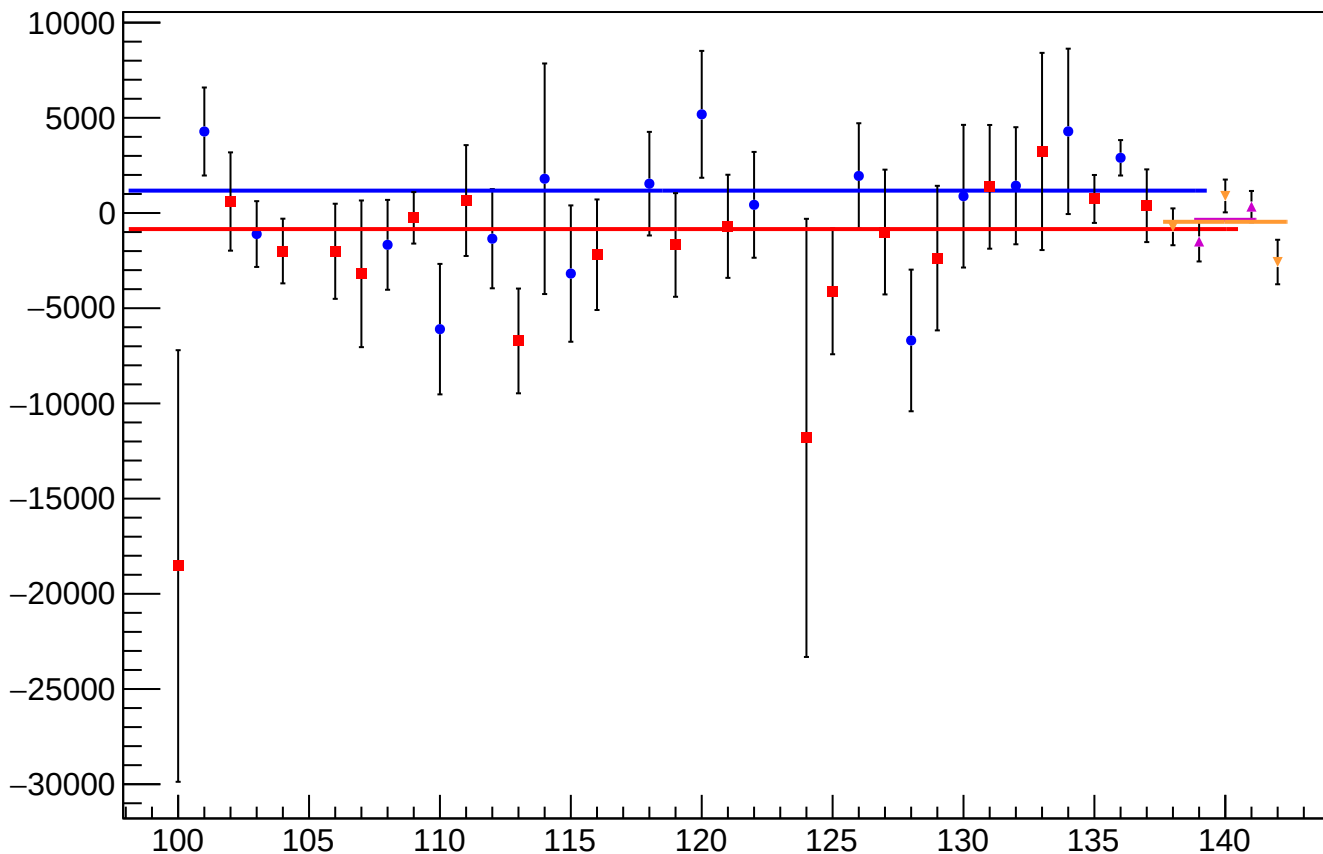
Right: 1608.520+/-0.303 χ^2/NDF : 830765.6/34

In: 1653.105+/-0.396 χ^2/NDF : 459584.0/17

Out: 1652.758+/-0.388 χ^2/NDF : 505607.1/21

All: 1652.928+/-0.277 χ^2/NDF : 965191.5/39

asym_at2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 1175.479+/-579.062 χ^2/NDF : 22.0/15

Left Out: -461.522+/-563.565 χ^2/NDF : 5.8/2

Right Out: -843.857+/-557.438 χ^2/NDF : 14.3/18

Left In: -357.244+/-646.666 χ^2/NDF : 1.9/1

Left: -416.510+/-424.864 χ^2/NDF : 7.7/4

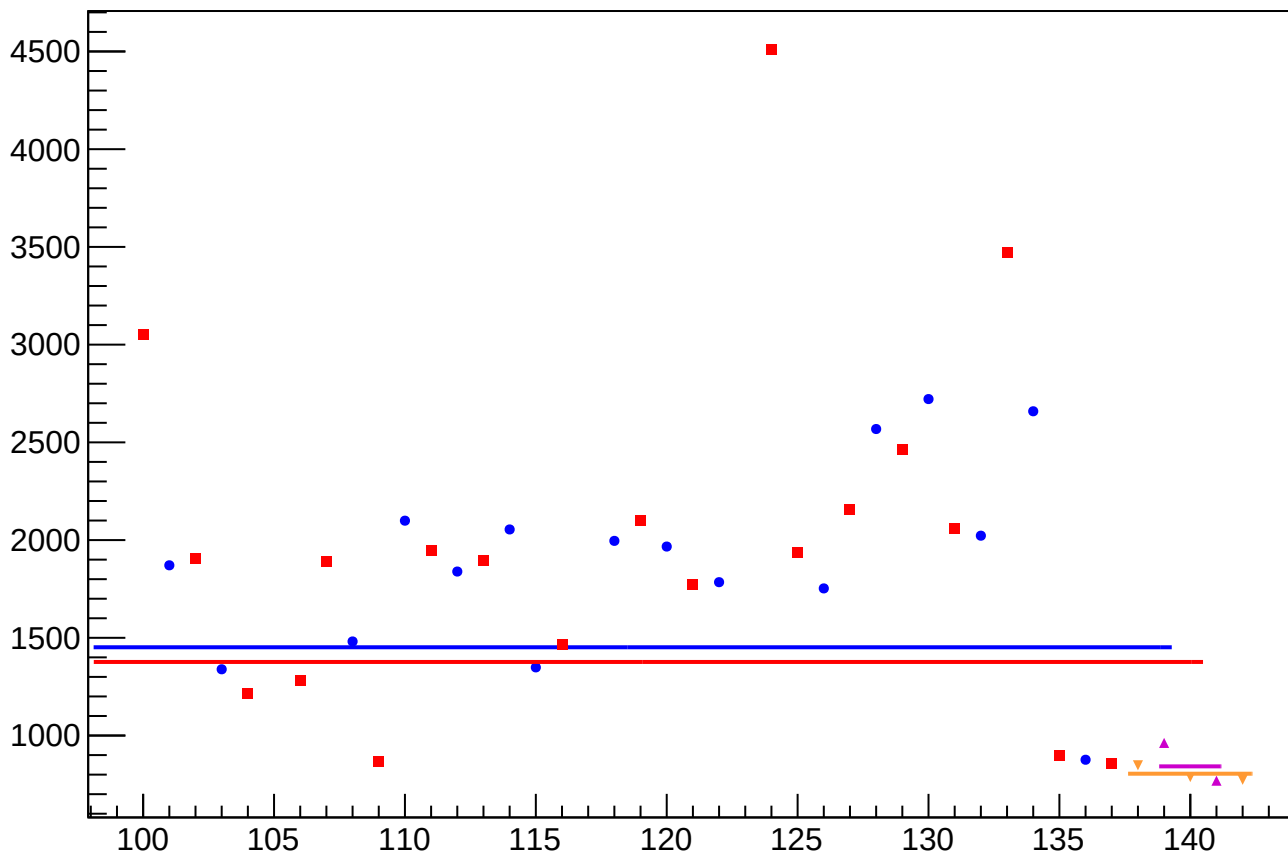
Right: 127.404+/-401.596 χ^2/NDF : 42.6/34

In: 493.397+/-431.387 χ^2/NDF : 27.0/17

Out: -654.779+/-396.317 χ^2/NDF : 20.3/21

All: -129.252+/-291.850 χ^2/NDF : 51.2/39

asym_at2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1451.631+/-0.409 χ^2/NDF : 1790839.5/15

Left Out: 804.700+/-0.399 χ^2/NDF : 6164.2/2

Right Out: 1376.470+/-0.394 χ^2/NDF : 2132051.1/18

Left In: 842.299+/-0.457 χ^2/NDF : 42056.5/1

Left: 820.930+/-0.300 χ^2/NDF : 52063.3/4

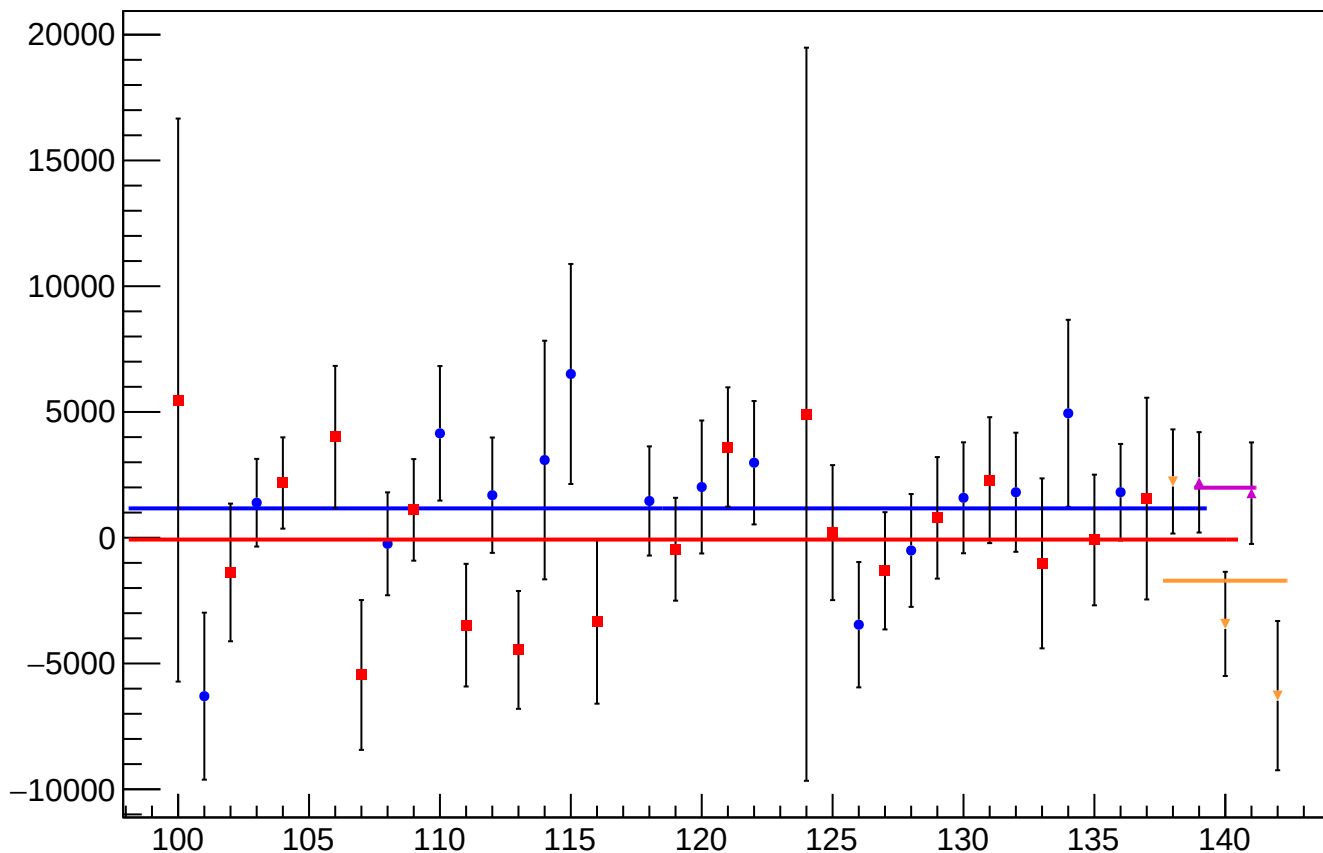
Right: 1412.621+/-0.284 χ^2/NDF : 3940379.2/34

In: 1180.470+/-0.305 χ^2/NDF : 2818405.2/17

Out: 1093.710+/-0.280 χ^2/NDF : 3178794.7/21

All: 1133.421+/-0.206 χ^2/NDF : 6041070.6/39

cor_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1166.769 $\pm$ 609.171 χ^2 /NDF: 14.4/15

Left Out: -1708.142 $\pm$ 1313.235 χ^2 /NDF:6.7/2

Right Out: -72.499 $\pm$ 603.362 χ^2 /NDF: 18.3/18

Left In: 1989.263 $\pm$ 1419.510 χ^2 /NDF:0.0/1

Left: -3.011 $\pm$ 963.981 χ^2 /NDF: 10.4/4

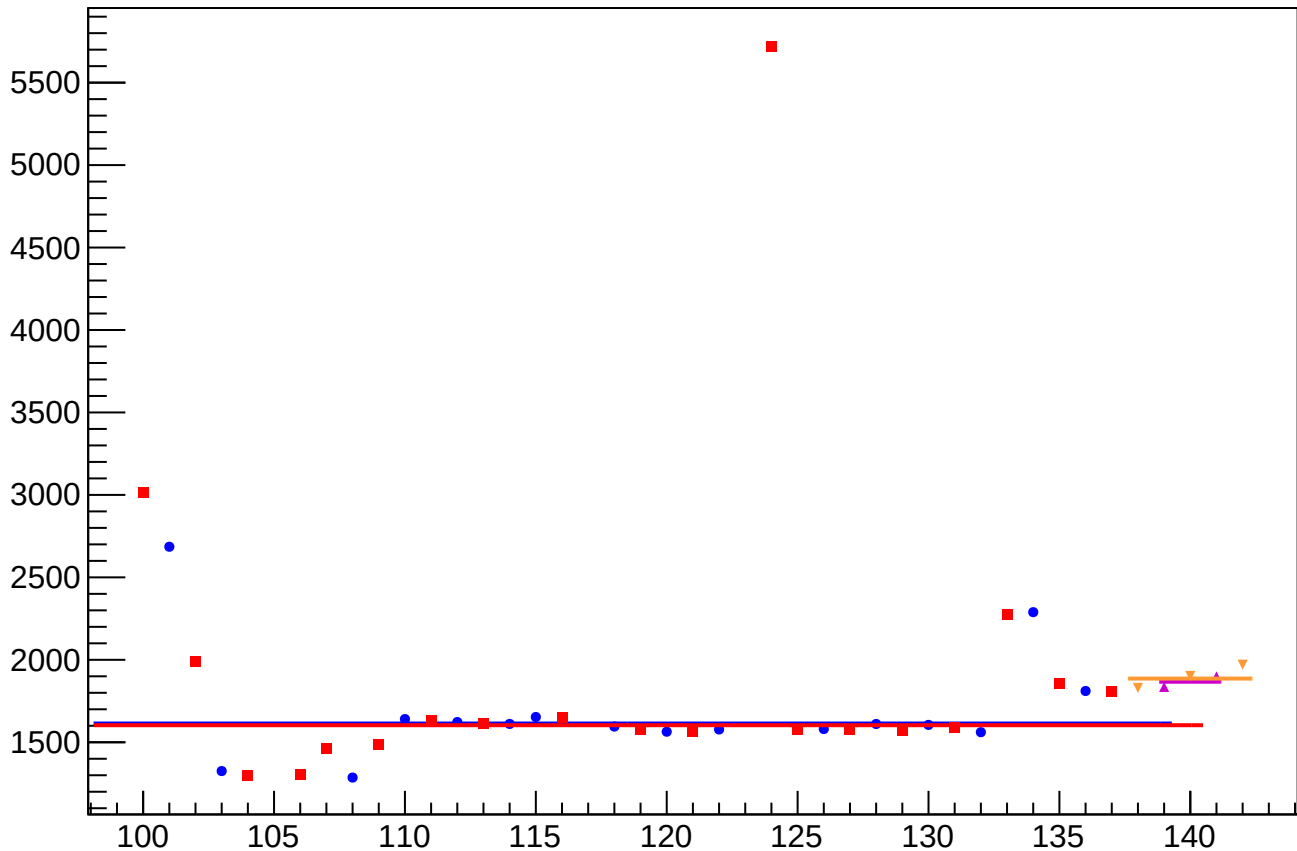
Right: 541.197 $\pm$ 428.680 χ^2 /NDF: 34.8/34

In: 1294.685 $\pm$ 559.801 χ^2 /NDF:14.7/17

Out: -357.589 $\pm$ 548.263 χ^2 /NDF:26.3/21

All: 451.345 $\pm$ 391.696 χ^2 /NDF: 45.4/39

cor_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1613.674+/-0.431 χ^2/NDF : 404688.8/15

Left Out: 1886.277+/-0.929 χ^2/NDF : 3224.7/2

Right Out: 1603.464+/-0.427 χ^2/NDF : 425793.4/18

Left In: 1867.217+/-1.004 χ^2/NDF : 1013.3/1

Left: 1877.487+/-0.682 χ^2/NDF : 4432.3/4

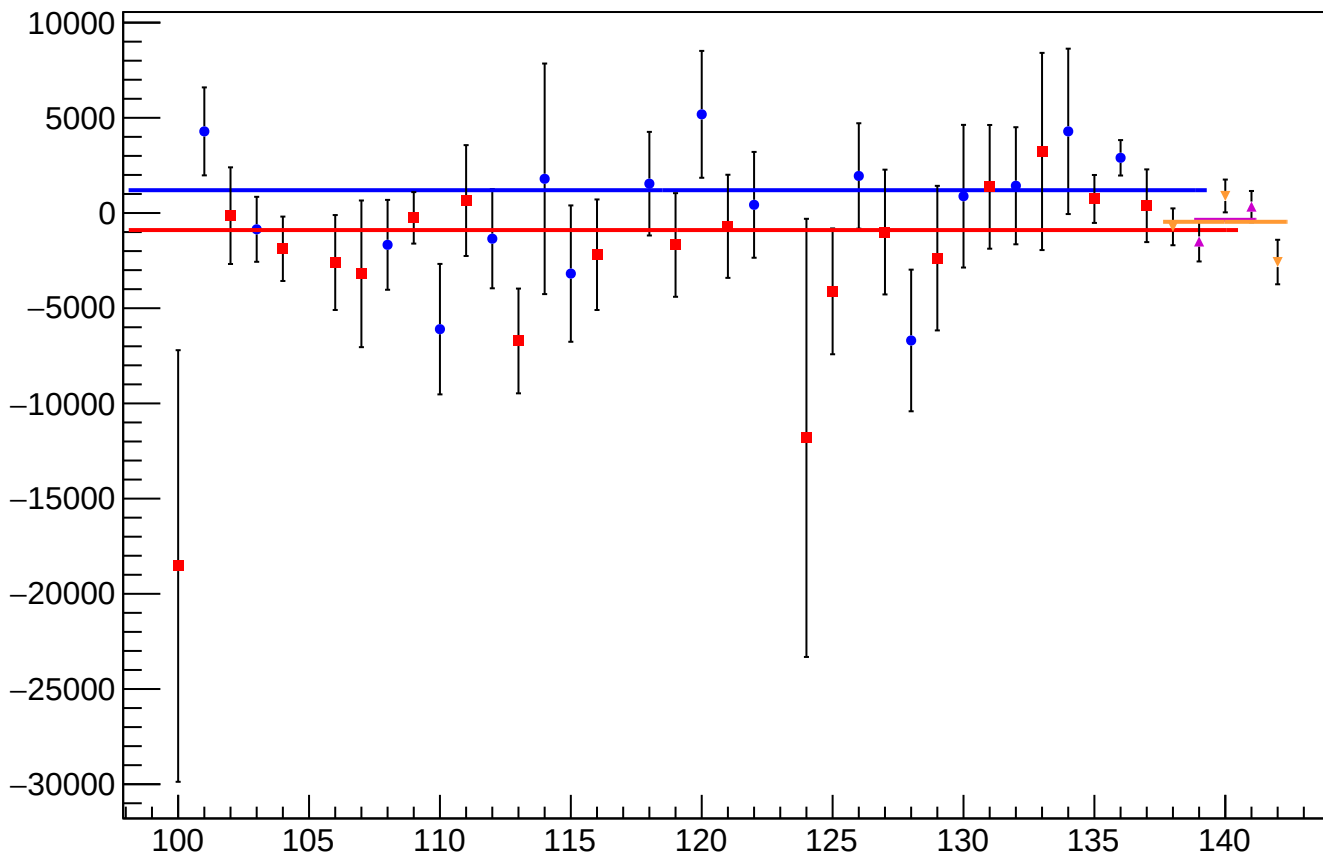
Right: 1608.520+/-0.303 χ^2/NDF : 830765.8/34

In: 1653.105+/-0.396 χ^2/NDF : 459584.3/17

Out: 1652.758+/-0.388 χ^2/NDF : 505607.2/21

All: 1652.928+/-0.277 χ^2/NDF : 965191.9/39

asym_at2_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 1198.338 $\pm$ 578.240 χ^2 /NDF: 21.7/15

Left Out: -461.446 $\pm$ 563.586 χ^2 /NDF:5.8/2

Right Out: -895.463 $\pm$ 556.666 χ^2 /NDF: 14.2/18

Left In: -357.550 $\pm$ 646.652 χ^2 /NDF:1.9/1

Left: -416.595 $\pm$ 424.868 χ^2 /NDF: 7.7/4

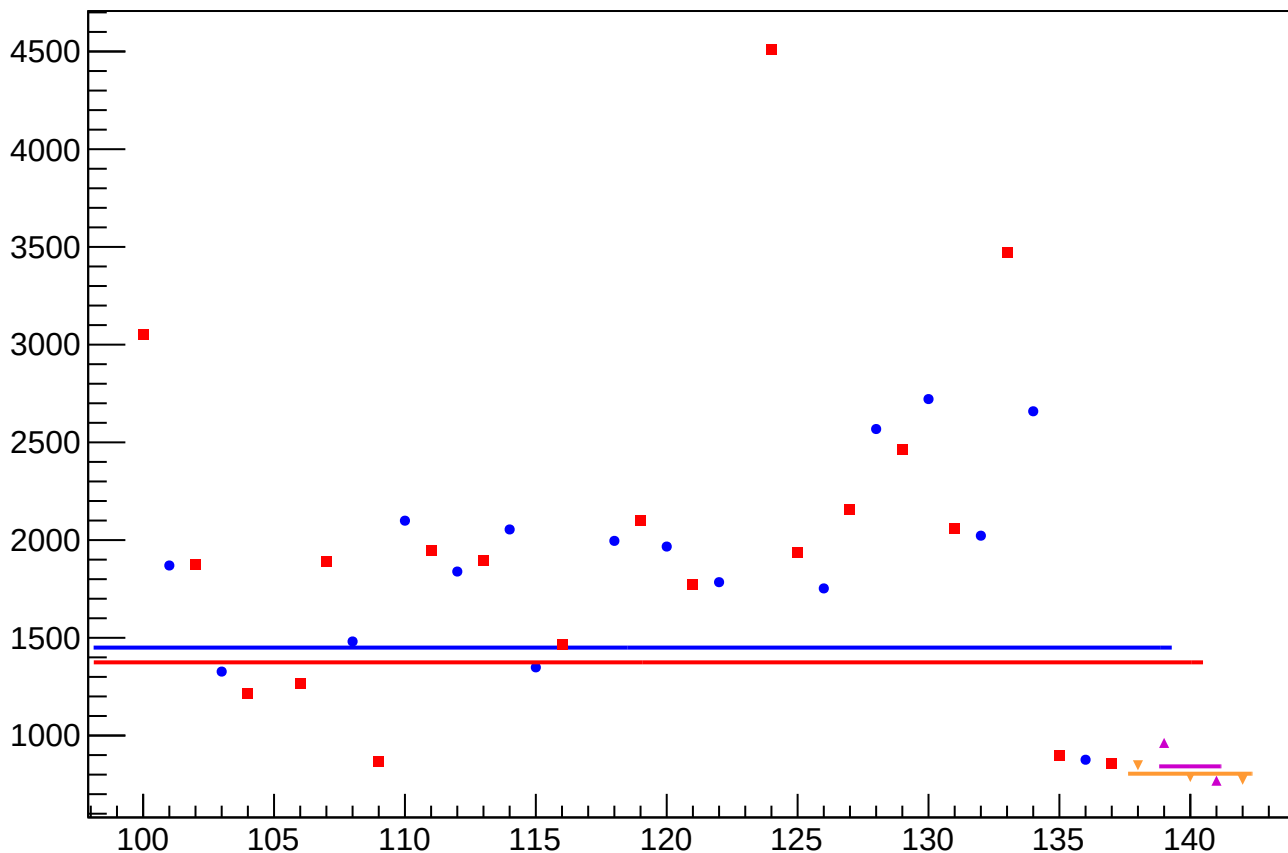
Right: 111.650 $\pm$ 401.033 χ^2 /NDF: 42.7/34

In: 507.022 $\pm$ 431.042 χ^2 /NDF:26.8/17

Out: -681.135 $\pm$ 396.046 χ^2 /NDF:20.3/21

All: -137.240 $\pm$ 291.635 χ^2 /NDF: 51.2/39

asym_at2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1449.939+/-0.409 χ^2/NDF : 1792673.2/15

Left Out: 804.732+/-0.399 χ^2/NDF : 6155.0/2

Right Out: 1374.438+/-0.394 χ^2/NDF : 2127695.6/18

Left In: 842.278+/-0.457 χ^2/NDF : 42070.1/1

Left: 820.940+/-0.300 χ^2/NDF : 52057.1/4

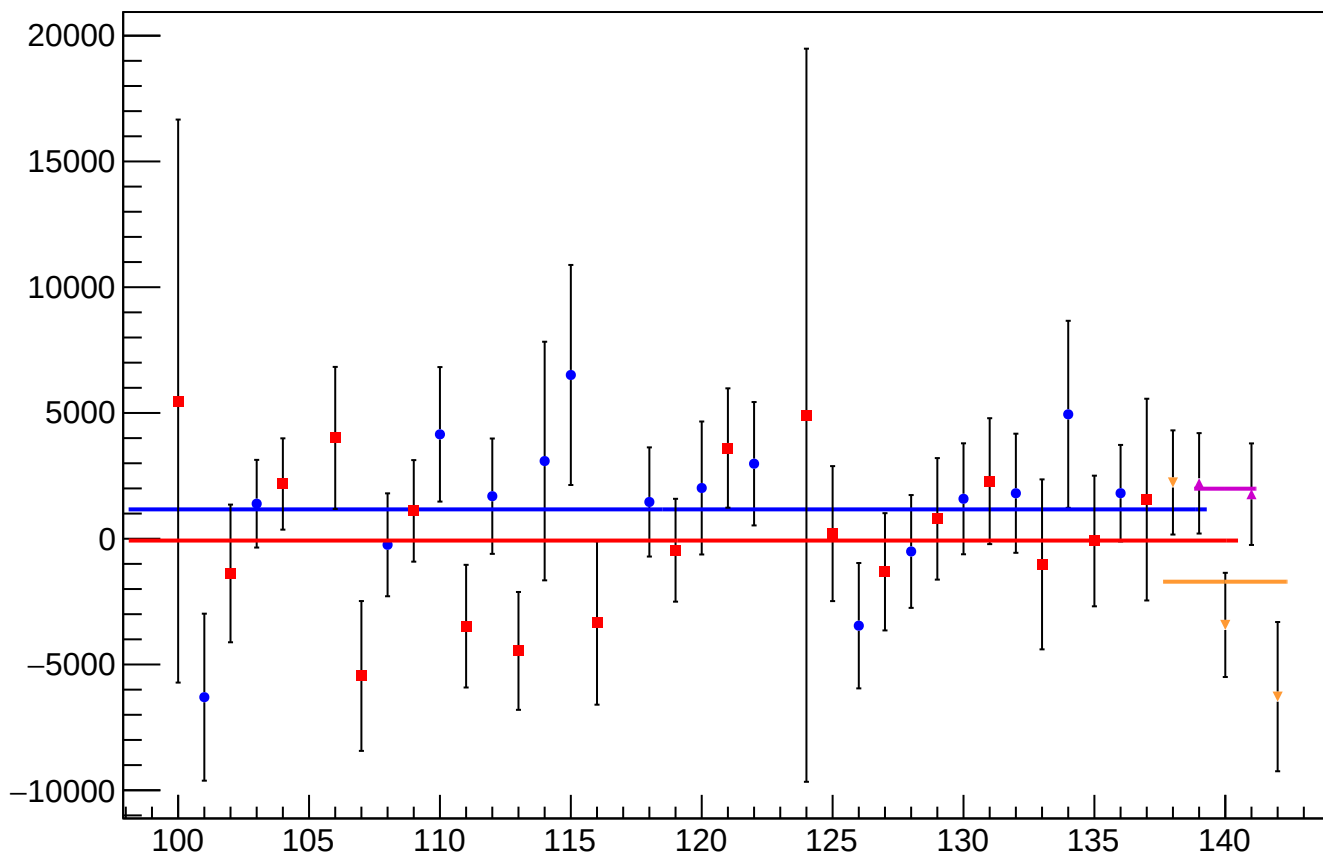
Right: 1410.753+/-0.284 χ^2/NDF : 3938065.4/34

In: 1179.941+/-0.305 χ^2/NDF : 2816114.1/17

Out: 1093.103+/-0.280 χ^2/NDF : 3168310.3/21

All: 1132.855+/-0.206 χ^2/NDF : 6028439.3/39

eigen_cor_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1166.769 $\pm$ 609.171 χ^2 /NDF: 14.4/15

Left Out: -1708.142 $\pm$ 1313.235 χ^2 /NDF:6.7/2

Right Out: -72.499 $\pm$ 603.362 χ^2 /NDF: 18.3/18

Left In: 1989.263 $\pm$ 1419.510 χ^2 /NDF:0.0/1

Left: -3.011 $\pm$ 963.981 χ^2 /NDF: 10.4/4

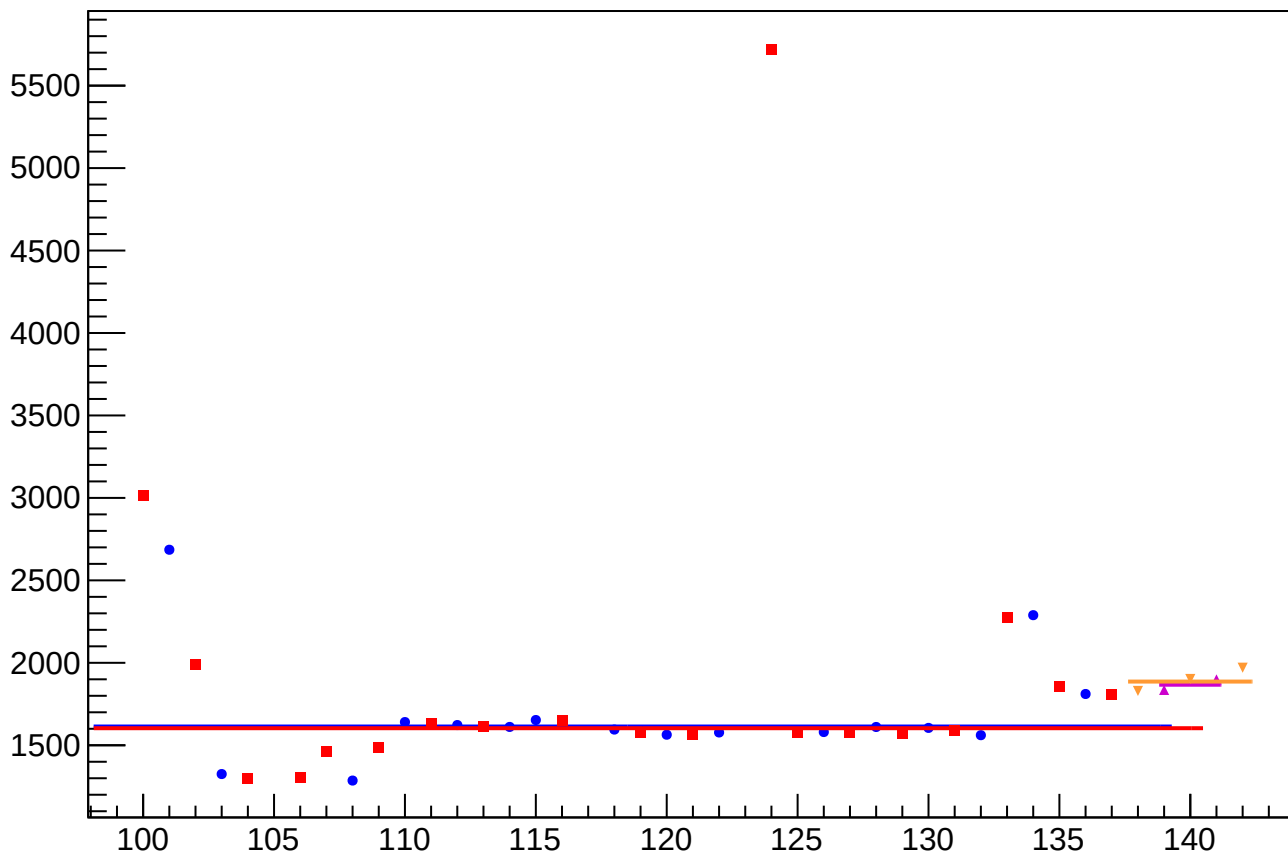
Right: 541.197 $\pm$ 428.680 χ^2 /NDF: 34.8/34

In: 1294.685 $\pm$ 559.801 χ^2 /NDF:14.7/17

Out: -357.589 $\pm$ 548.263 χ^2 /NDF:26.3/21

All: 451.345 $\pm$ 391.696 χ^2 /NDF: 45.4/39

eigen_cor_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1613.674+/-0.431 χ^2/NDF : 404688.8/15

Left Out: 1886.277+/-0.929 χ^2/NDF : 3224.7/2

Right Out: 1603.464+/-0.427 χ^2/NDF : 425793.4/18

Left In: 1867.217+/-1.004 χ^2/NDF : 1013.3/1

Left: 1877.487+/-0.682 χ^2/NDF : 4432.3/4

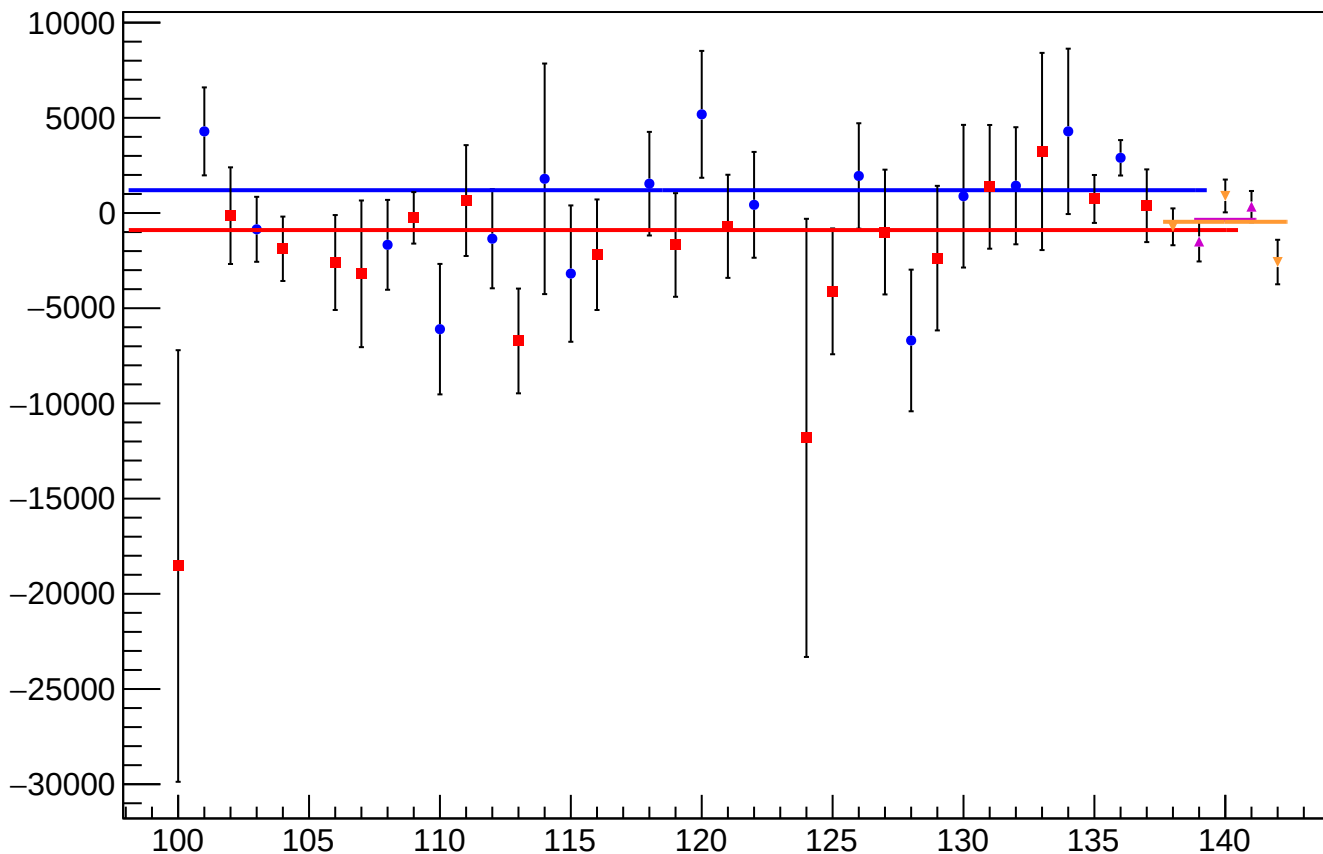
Right: 1608.520+/-0.303 χ^2/NDF : 830765.8/34

In: 1653.105+/-0.396 χ^2/NDF : 459584.3/17

Out: 1652.758+/-0.388 χ^2/NDF : 505607.2/21

All: 1652.928+/-0.277 χ^2/NDF : 965191.9/39

asym_at2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 1198.338 $\pm$ 578.240 χ^2 /NDF: 21.7/15

Left Out: -461.446 $\pm$ 563.586 χ^2 /NDF:5.8/2

Right Out: -895.463 $\pm$ 556.666 χ^2 /NDF: 14.2/18

Left In: -357.550 $\pm$ 646.652 χ^2 /NDF:1.9/1

Left: -416.595 $\pm$ 424.868 χ^2 /NDF: 7.7/4

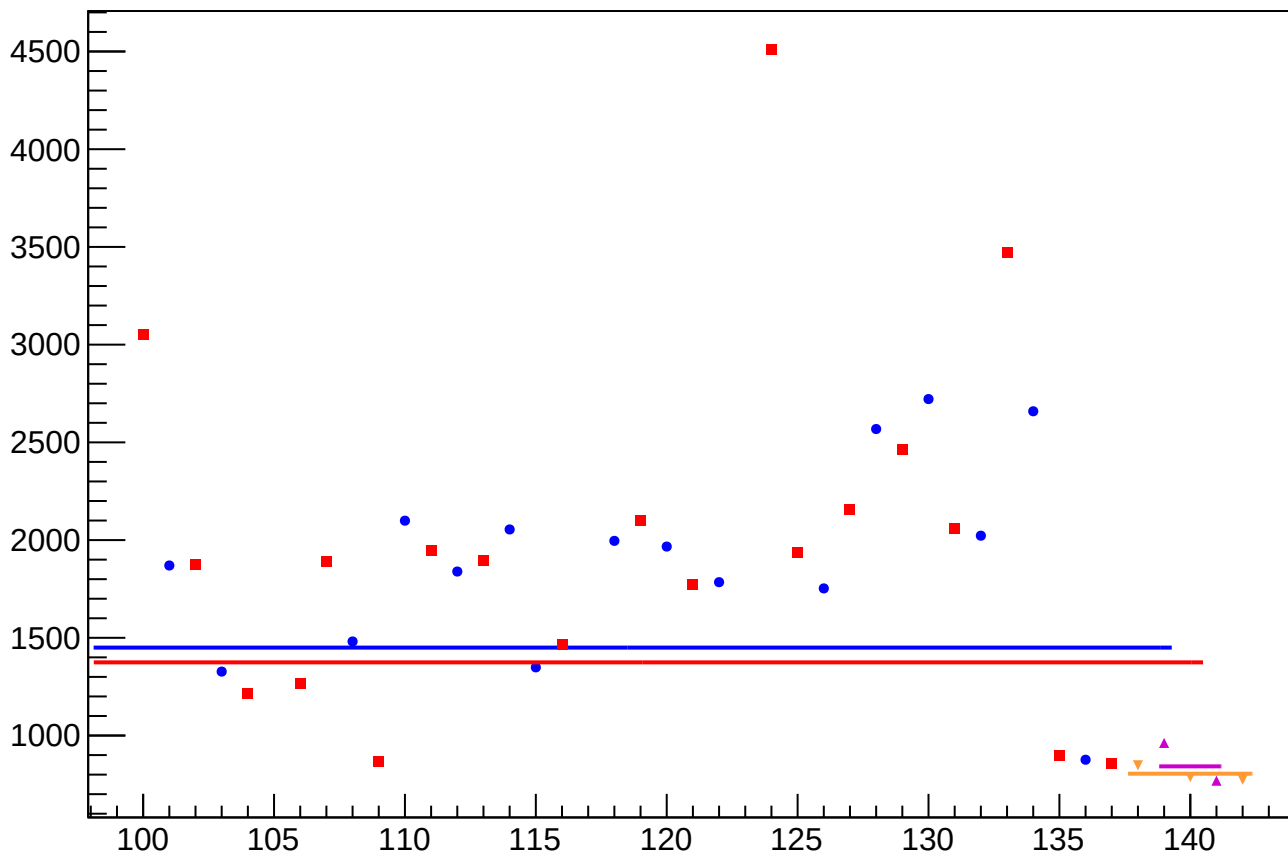
Right: 111.650 $\pm$ 401.033 χ^2 /NDF: 42.7/34

In: 507.022 $\pm$ 431.042 χ^2 /NDF:26.8/17

Out: -681.135 $\pm$ 396.046 χ^2 /NDF:20.3/21

All: -137.240 $\pm$ 291.635 χ^2 /NDF: 51.2/39

asym_at2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1449.939+/-0.409 χ^2/NDF : 1792673.2/15

Left Out: 804.732+/-0.399 χ^2/NDF : 6155.0/2

Right Out: 1374.438+/-0.394 χ^2/NDF : 2127695.6/18

Left In: 842.278+/-0.457 χ^2/NDF : 42070.1/1

Left: 820.940+/-0.300 χ^2/NDF : 52057.1/4

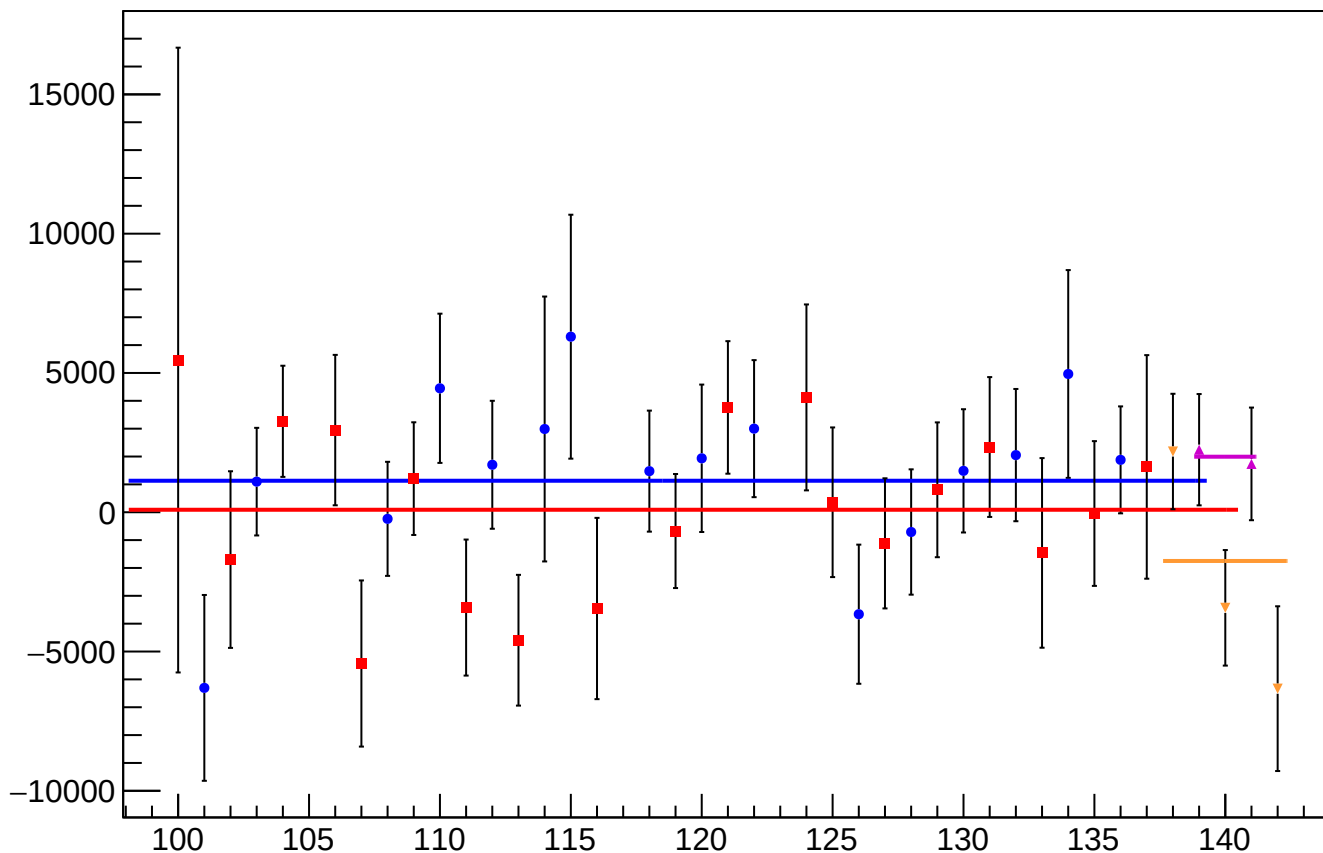
Right: 1410.753+/-0.284 χ^2/NDF : 3938065.4/34

In: 1179.941+/-0.305 χ^2/NDF : 2816114.1/17

Out: 1093.103+/-0.280 χ^2/NDF : 3168310.3/21

All: 1132.855+/-0.206 χ^2/NDF : 6028439.3/39

dit_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1130.726 $\pm$ 617.236 χ^2 /NDF: 15.0/15

Left Out: -1749.187 $\pm$ 1313.303 χ^2 /NDF: 6.7/2

Right Out: 89.220 $\pm$ 603.072 χ^2 /NDF: 20.7/18

Left In: 1993.633 $\pm$ 1421.067 χ^2 /NDF: 0.0/1

Left: -25.055 $\pm$ 964.496 χ^2 /NDF: 10.4/4

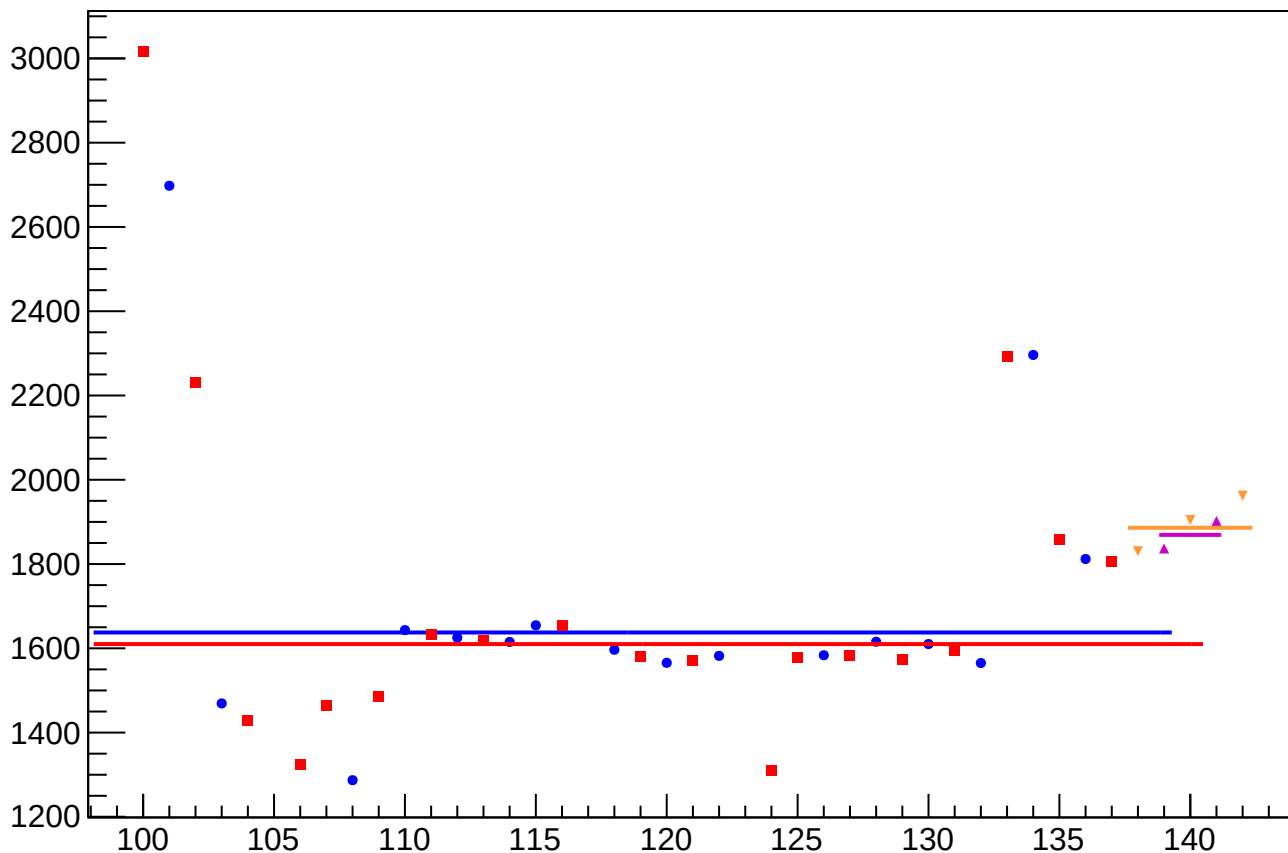
Right: 597.886 $\pm$ 431.357 χ^2 /NDF: 37.1/34

In: 1267.682 $\pm$ 566.139 χ^2 /NDF: 15.3/17

Out: -230.930 $\pm$ 548.051 χ^2 /NDF: 29.0/21

All: 494.054 $\pm$ 393.770 χ^2 /NDF: 47.9/39

dit_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1637.574 ± 0.436 $\chi^2/\text{NDF}: 361417.0/15$

Left Out: 1886.087 ± 0.929 $\chi^2/\text{NDF}: 2927.9/2$

Right Out: 1610.043 ± 0.426 $\chi^2/\text{NDF}: 280812.5/18$

Left In: 1869.215 ± 1.005 $\chi^2/\text{NDF}: 1053.4/1$

Left: 1878.315 ± 0.682 $\chi^2/\text{NDF}: 4133.3/4$

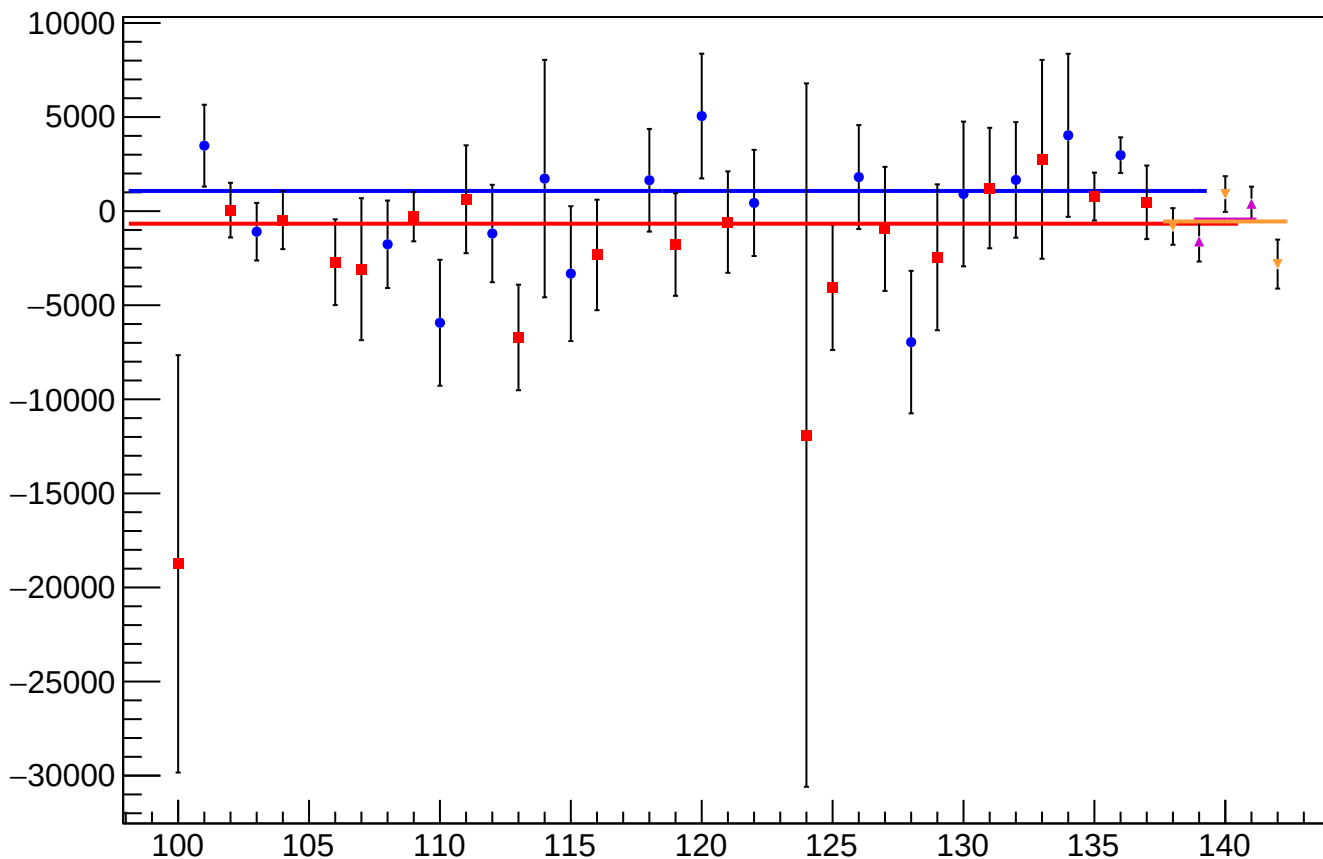
Right: 1623.489 ± 0.305 $\chi^2/\text{NDF}: 644265.1/34$

In: 1674.339 ± 0.400 $\chi^2/\text{NDF}: 407177.6/17$

Out: 1658.115 ± 0.388 $\chi^2/\text{NDF}: 356713.0/21$

All: 1665.963 ± 0.278 $\chi^2/\text{NDF}: 764738.5/39$

asym_at2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1073.600+/-571.609 χ^2/NDF : 22.0/15

Left Out: -548.407+/-602.180 χ^2/NDF : 5.5/2

Right Out: -667.777+/-523.477 χ^2/NDF : 13.6/18

Left In: -446.607+/-692.595 χ^2/NDF : 2.0/1

Left: -504.581+/-454.433 χ^2/NDF : 7.5/4

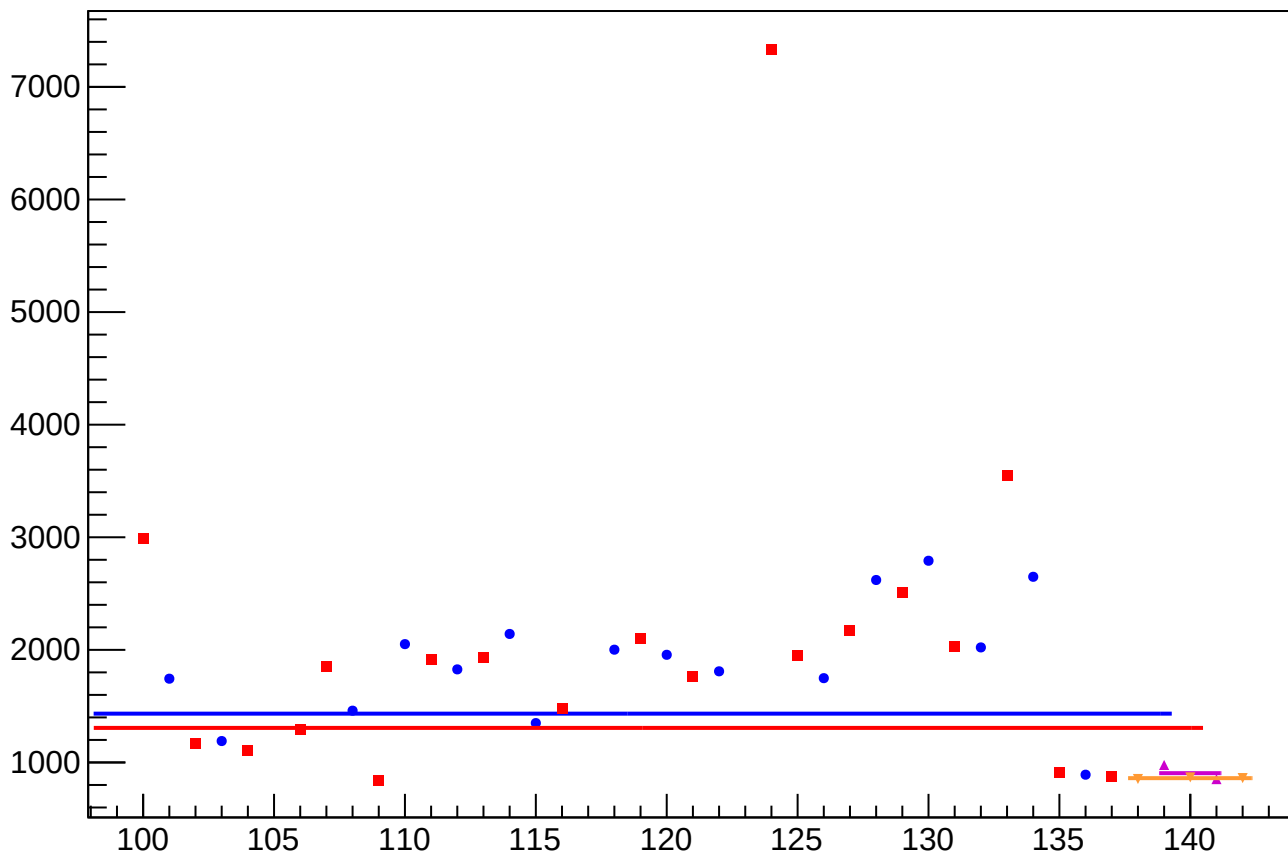
Right: 126.521+/-386.051 χ^2/NDF : 40.6/34

In: 457.662+/-440.856 χ^2/NDF : 26.9/17

Out: -616.397+/-395.070 χ^2/NDF : 19.0/21

All: -138.021+/-294.217 χ^2/NDF : 49.3/39

asym_at2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1433.477+/-0.404 χ^2/NDF : 1763491.8/15

Left Out: 860.546+/-0.426 χ^2/NDF :225.2/2

Right Out: 1306.866+/-0.370 χ^2/NDF : 2183906.3/18

Left In: 904.854+/-0.490 χ^2/NDF :16068.2/1

Left: 879.621+/-0.321 χ^2/NDF : 20954.8/4

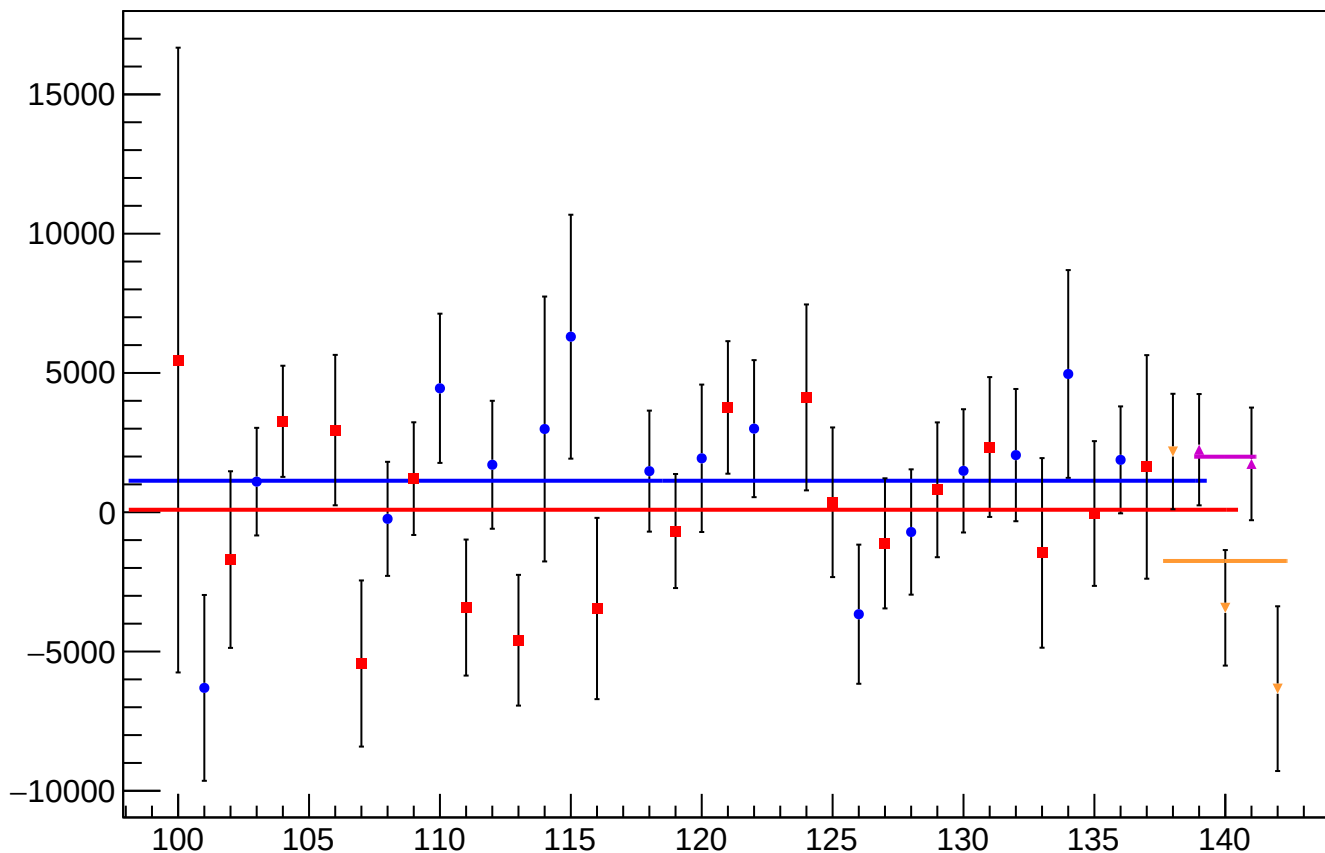
Right: 1364.618+/-0.273 χ^2/NDF : 4000764.0/34

In: 1219.296+/-0.312 χ^2/NDF :2472600.6/17

Out: 1114.760+/-0.279 χ^2/NDF :2809913.5/21

All: 1161.320+/-0.208 χ^2/NDF : 5344881.4/39

eigen_dit_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1130.728 $\pm$ 617.236 χ^2 /NDF: 15.0/15

Left Out: -1749.197 $\pm$ 1313.304 χ^2 /NDF: 6.7/2

Right Out: 89.225 $\pm$ 603.072 χ^2 /NDF: 20.7/18

Left In: 1993.615 $\pm$ 1421.067 χ^2 /NDF: 0.0/1

Left: -25.069 $\pm$ 964.496 χ^2 /NDF: 10.4/4

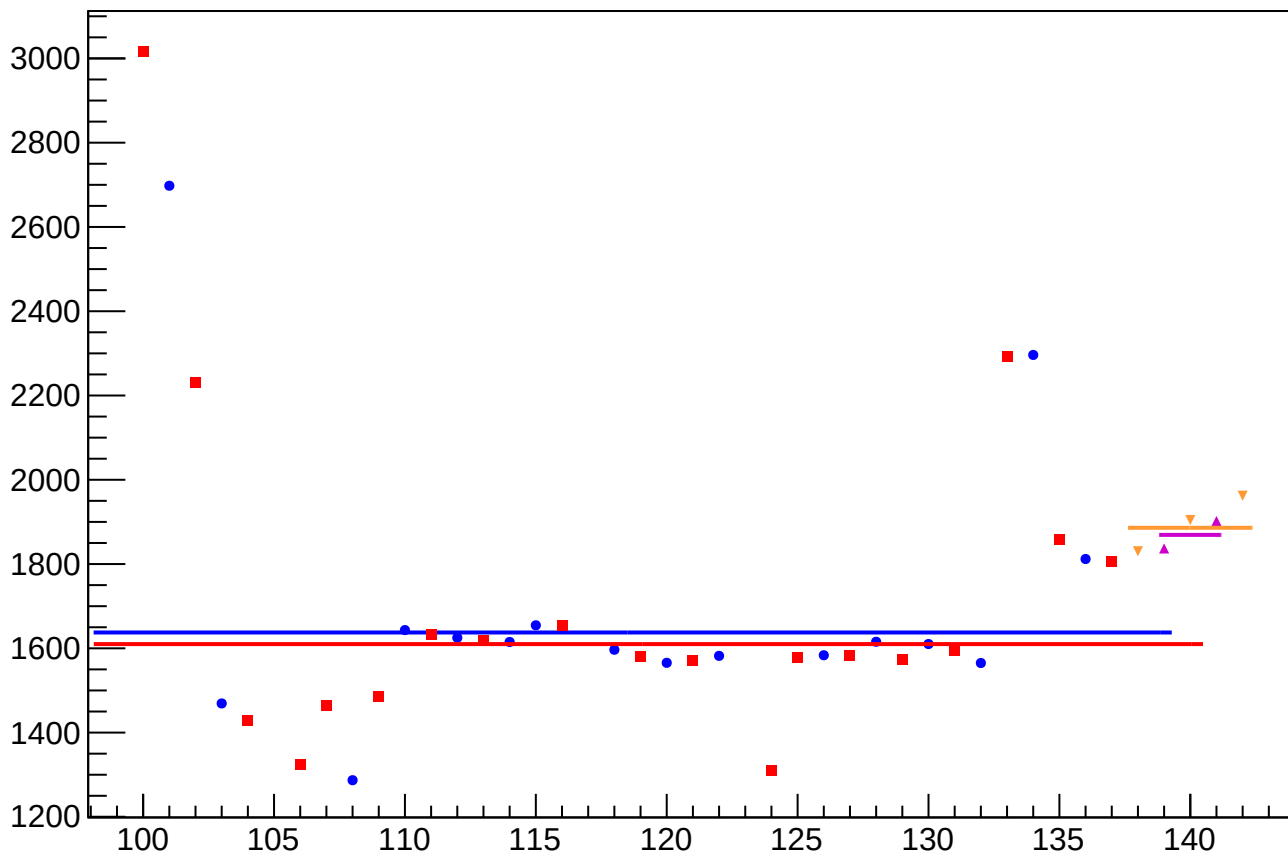
Right: 597.890 $\pm$ 431.357 χ^2 /NDF: 37.1/34

In: 1267.680 $\pm$ 566.139 χ^2 /NDF: 15.3/17

Out: -230.927 $\pm$ 548.051 χ^2 /NDF: 29.0/21

All: 494.055 $\pm$ 393.770 χ^2 /NDF: 47.9/39

eigen_dit_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1637.574 $\pm$ 0.436 χ^2 /NDF: 361416.8/15

Left Out: 1886.087 $\pm$ 0.929 χ^2 /NDF: 2927.9/2

Right Out: 1610.043 $\pm$ 0.426 χ^2 /NDF: 280812.7/18

Left In: 1869.216 $\pm$ 1.005 χ^2 /NDF: 1053.4/1

Left: 1878.315 $\pm$ 0.682 χ^2 /NDF: 4133.4/4

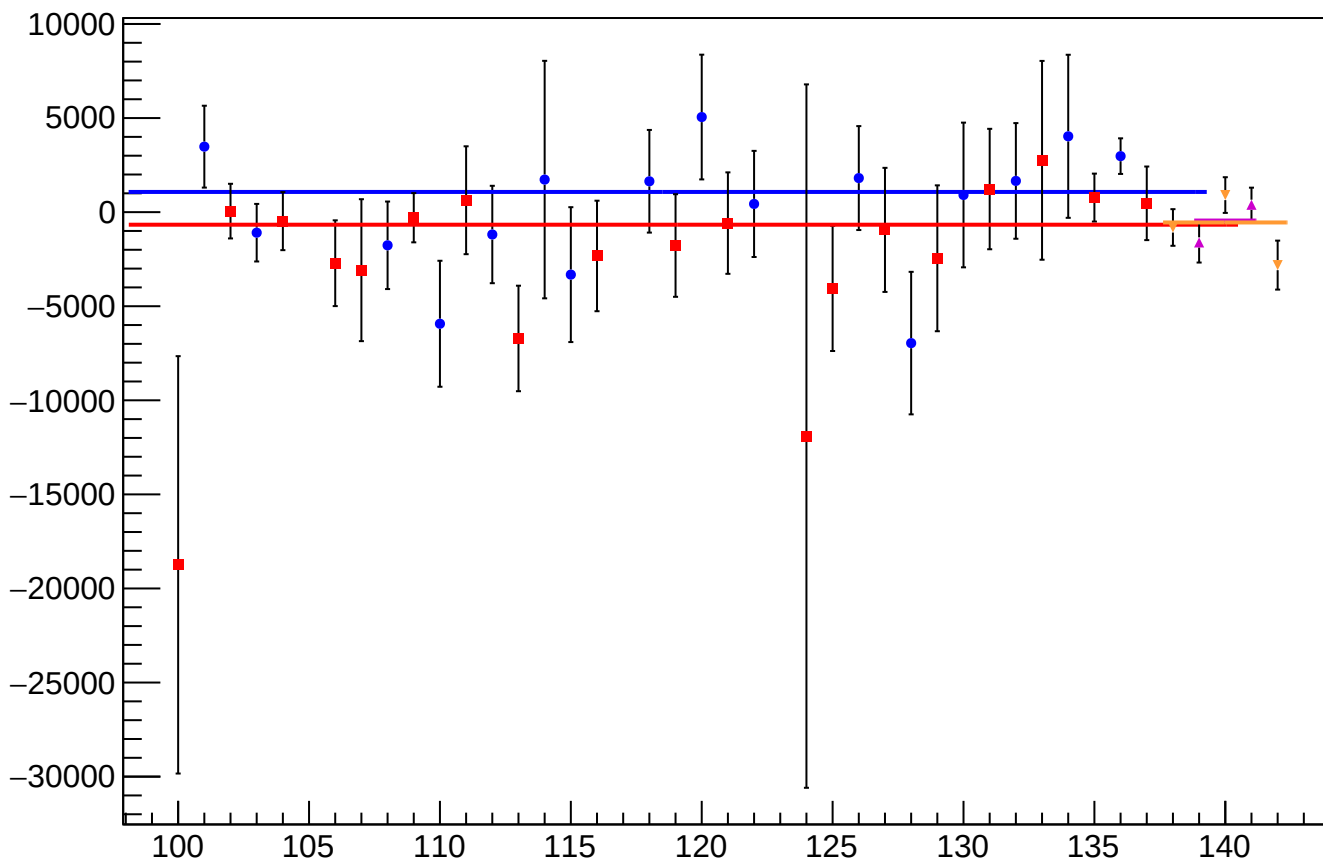
Right: 1623.489 $\pm$ 0.305 χ^2 /NDF: 644265.1/34

In: 1674.339 $\pm$ 0.400 χ^2 /NDF: 407177.5/17

Out: 1658.115 $\pm$ 0.388 χ^2 /NDF: 356713.4/21

All: 1665.963 $\pm$ 0.278 χ^2 /NDF: 764738.8/39

asym_at2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1073.589+/-571.613 χ^2/NDF : 22.0/15

Left Out: -548.415+/-602.190 χ^2/NDF : 5.5/2

Right Out: -667.789+/-523.481 χ^2/NDF : 13.6/18

Left In: -446.604+/-692.606 χ^2/NDF : 2.0/1

Left: -504.584+/-454.441 χ^2/NDF : 7.5/4

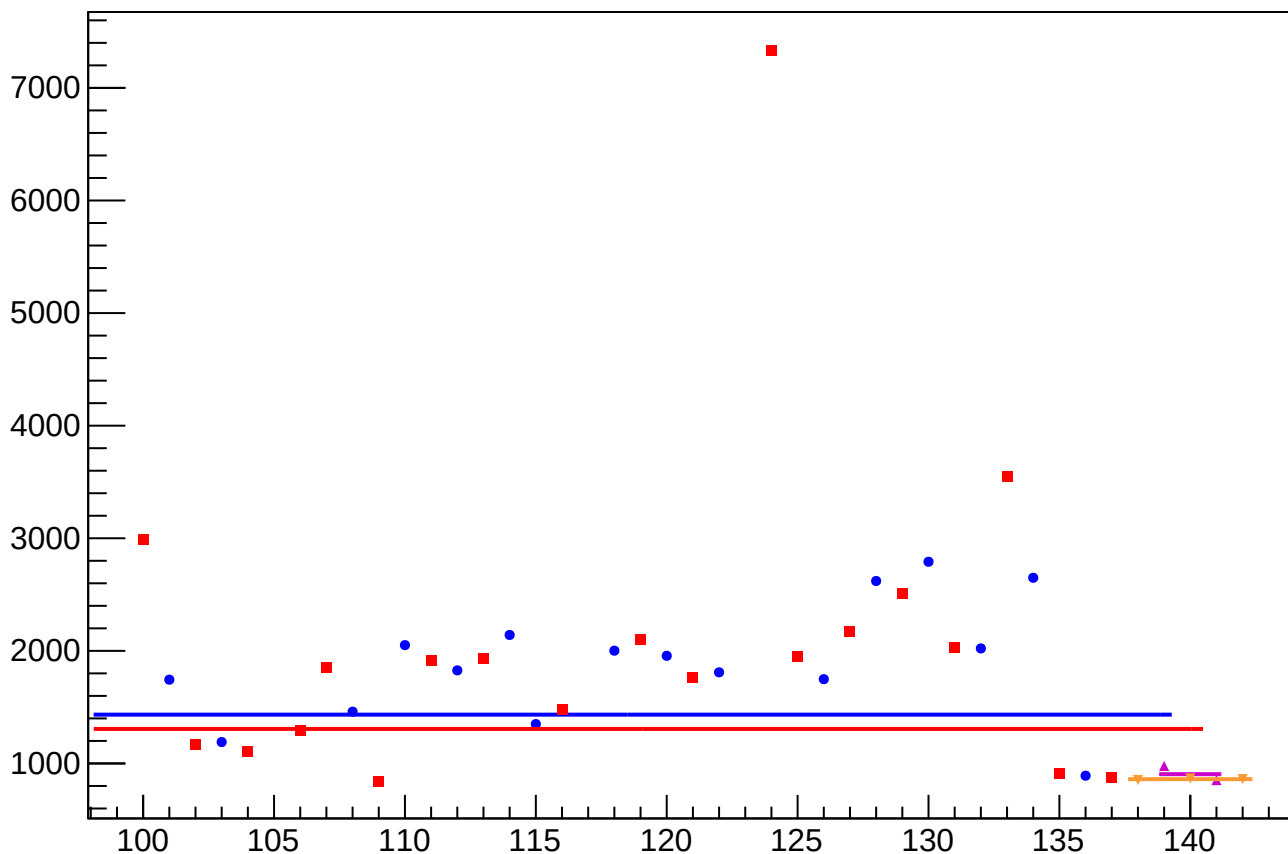
Right: 126.509+/-386.053 χ^2/NDF : 40.6/34

In: 457.663+/-440.860 χ^2/NDF : 26.9/17

Out: -616.408+/-395.074 χ^2/NDF : 19.0/21

All: -138.026+/-294.220 χ^2/NDF : 49.3/39

asym_at2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1433.492+/-0.404 χ^2/NDF : 1763397.4/15

Left Out: 860.560+/-0.426 χ^2/NDF :224.6/2

Right Out: 1306.880+/-0.370 χ^2/NDF : 2183835.0/18

Left In: 904.868+/-0.490 χ^2/NDF :16072.8/1

Left: 879.635+/-0.321 χ^2/NDF : 20958.6/4

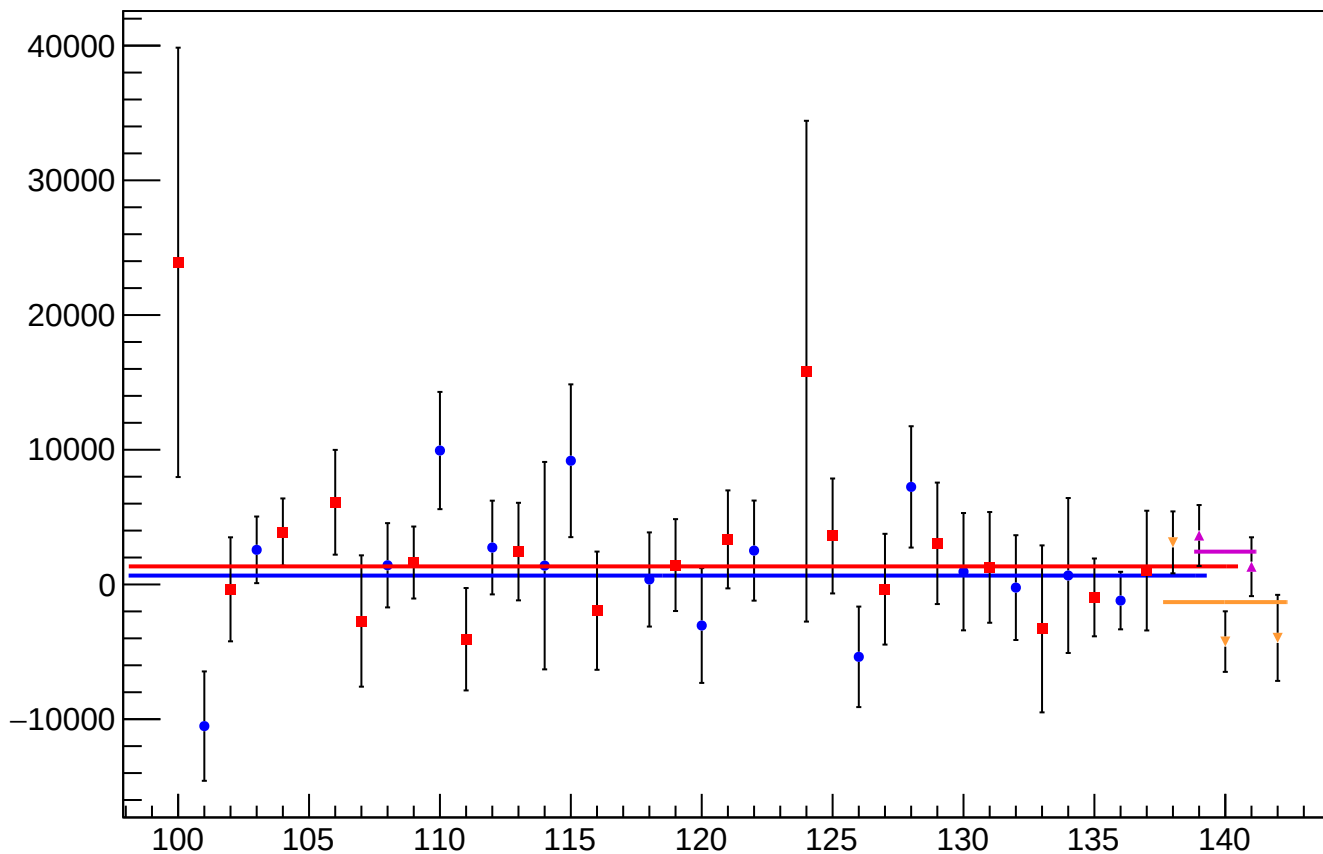
Right: 1364.632+/-0.273 χ^2/NDF : 4000599.5/34

In: 1219.313+/-0.312 χ^2/NDF :2472496.6/17

Out: 1114.776+/-0.279 χ^2/NDF :2809822.9/21

All: 1161.336+/-0.208 χ^2/NDF : 5344687.2/39

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 659.458+/-909.570 χ^2/NDF : 22.0/15

Left Out: -1309.209+/-1435.451 χ^2/NDF : 6.1/2

Right Out: 1341.998+/-890.576 χ^2/NDF : 10.8/18

Left In: 2436.071+/-1570.997 χ^2/NDF : 0.5/1

Left: 394.917+/-1059.703 χ^2/NDF : 9.8/4

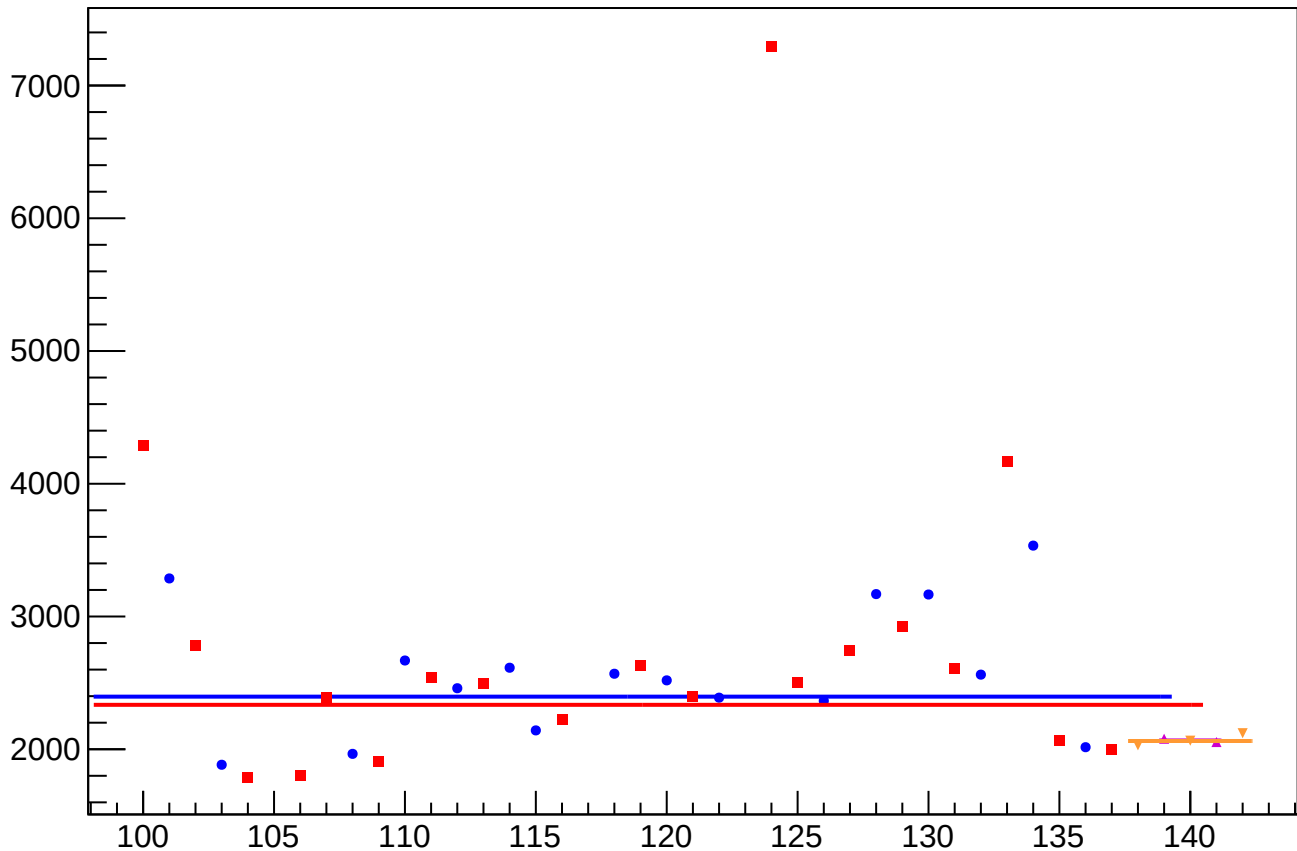
Right: 1007.929+/-636.341 χ^2/NDF : 33.1/34

In: 1105.488+/-787.156 χ^2/NDF : 23.5/17

Out: 605.137+/-756.762 χ^2/NDF : 19.4/21

All: 845.466+/-545.540 χ^2/NDF : 43.1/39

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2396.276+/-0.643 χ^2/NDF : 507897.2/15

Left Out: 2062.153+/-1.015 χ^2/NDF :1079.7/2

Right Out: 2334.592+/-0.630 χ^2/NDF : 681568.6/18

Left In: 2066.470+/-1.111 χ^2/NDF :125.3/1

Left: 2064.117+/-0.749 χ^2/NDF : 1213.2/4

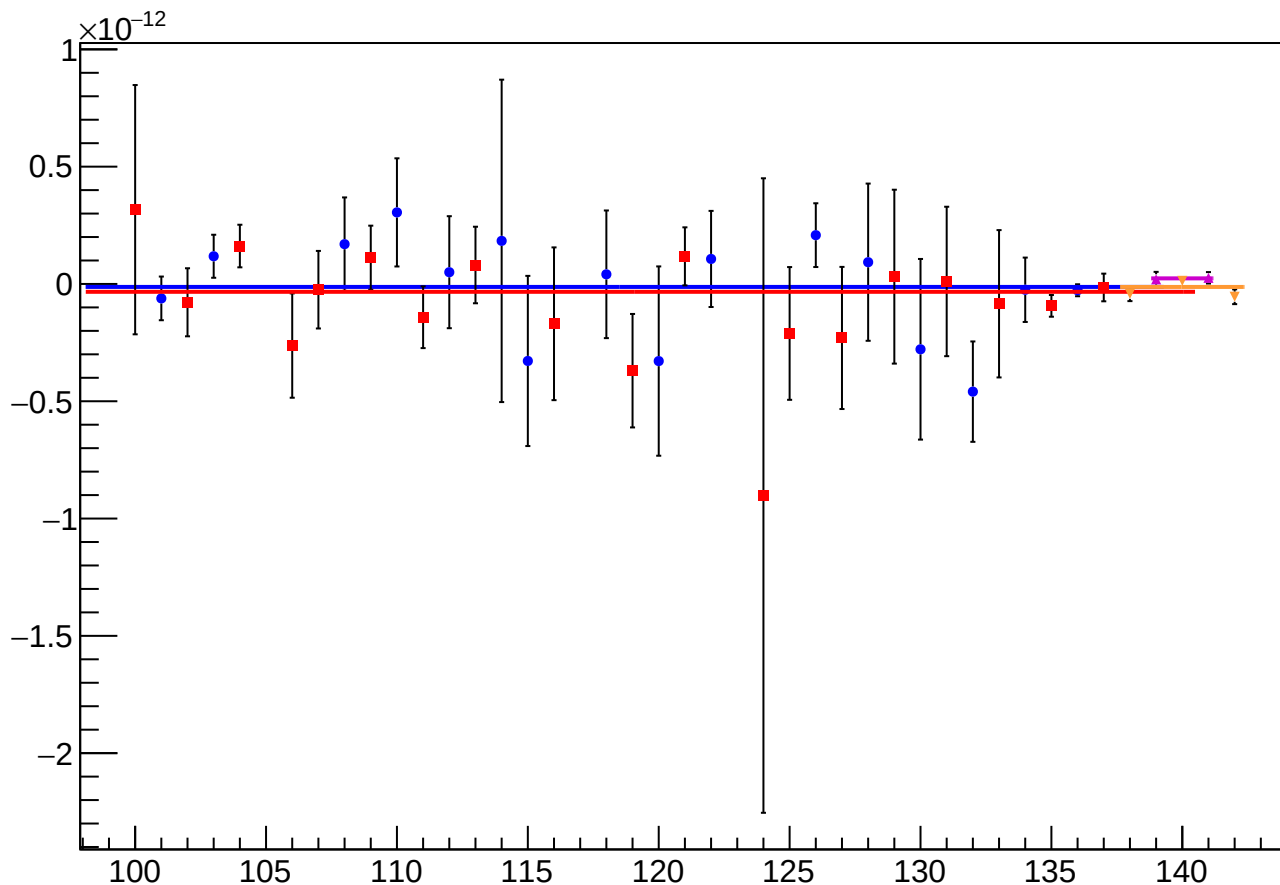
Right: 2364.783+/-0.450 χ^2/NDF : 1194162.0/34

In: 2313.476+/-0.557 χ^2/NDF :574037.9/17

Out: 2258.873+/-0.535 χ^2/NDF :734668.5/21

All: 2285.100+/-0.386 χ^2/NDF : 1313707.8/39

asym_at2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 14.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 4.5/2

Right Out: -0.000+/-0.000 χ^2/NDF : 15.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 6.9/4

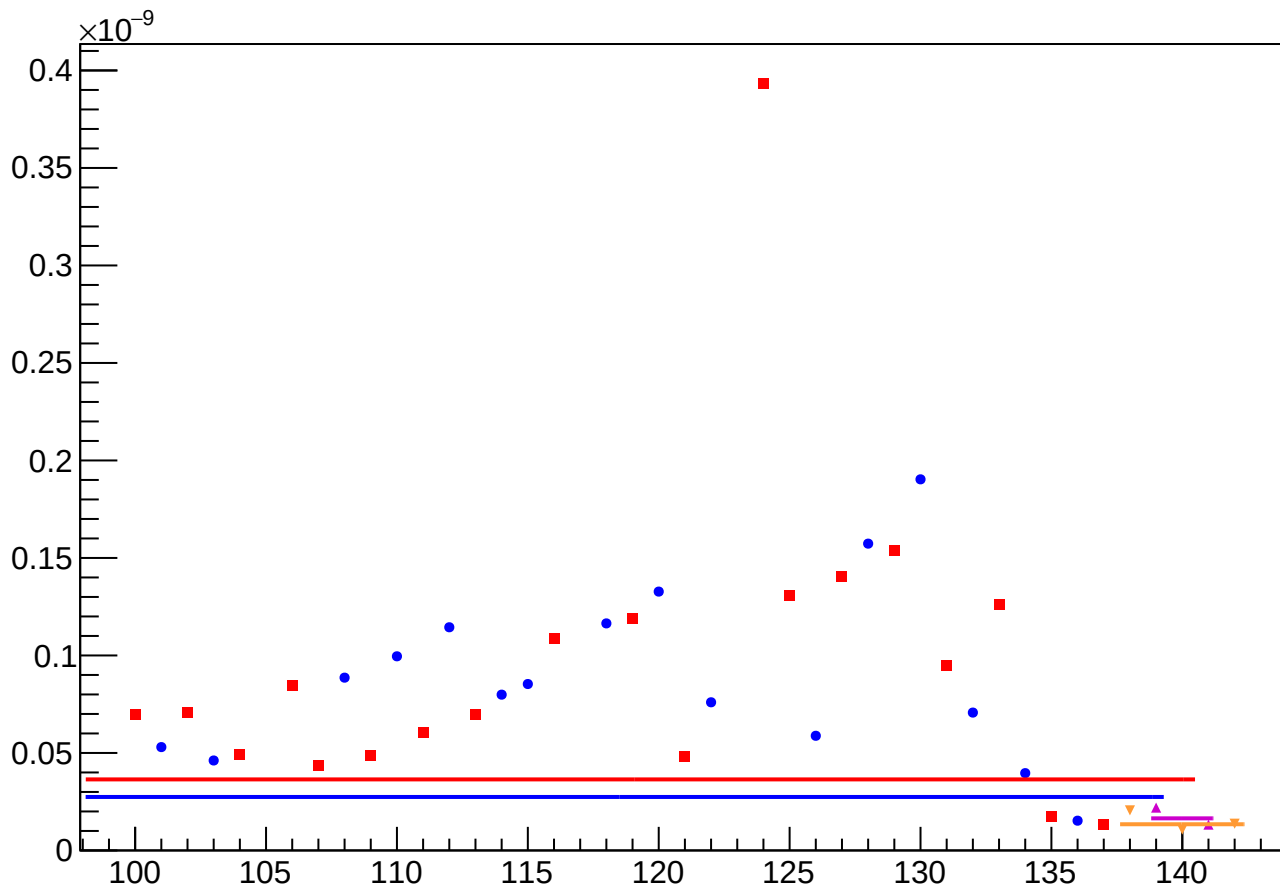
Right: -0.000+/-0.000 χ^2/NDF : 30.4/34

In: 0.000+/-0.000 χ^2/NDF : 16.4/17

Out: -0.000+/-0.000 χ^2/NDF : 20.2/21

All: -0.000+/-0.000 χ^2/NDF : 38.2/39

asym_at2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2728016.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :147082.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2442395.8/18

Left In: 0.000+/-0.000 χ^2/NDF :94598.4/1

Left: 0.000+/-0.000 χ^2/NDF : 273220.2/4

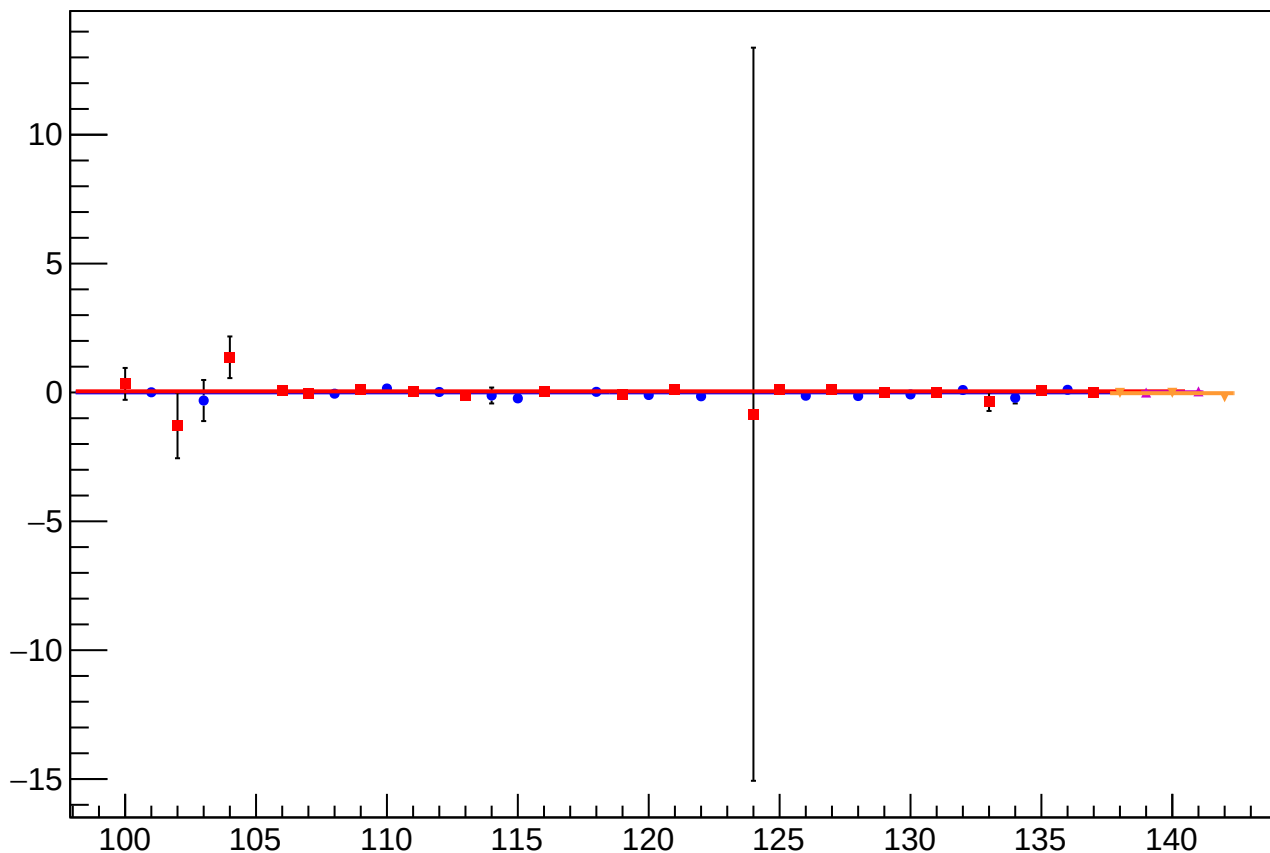
Right: 0.000+/-0.000 χ^2/NDF : 5297550.6/34

In: 0.000+/-0.000 χ^2/NDF :3100228.5/17

Out: 0.000+/-0.000 χ^2/NDF :3658421.2/21

All: 0.000+/-0.000 χ^2/NDF : 6805716.8/39

asym_at2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003+/-0.027 χ^2/NDF : 13.3/15

Left Out: -0.029+/-0.038 χ^2/NDF : 1.3/2

Right Out: 0.044+/-0.025 χ^2/NDF : 12.7/18

Left In: 0.008+/-0.044 χ^2/NDF : 0.2/1

Left: -0.013+/-0.029 χ^2/NDF : 1.9/4

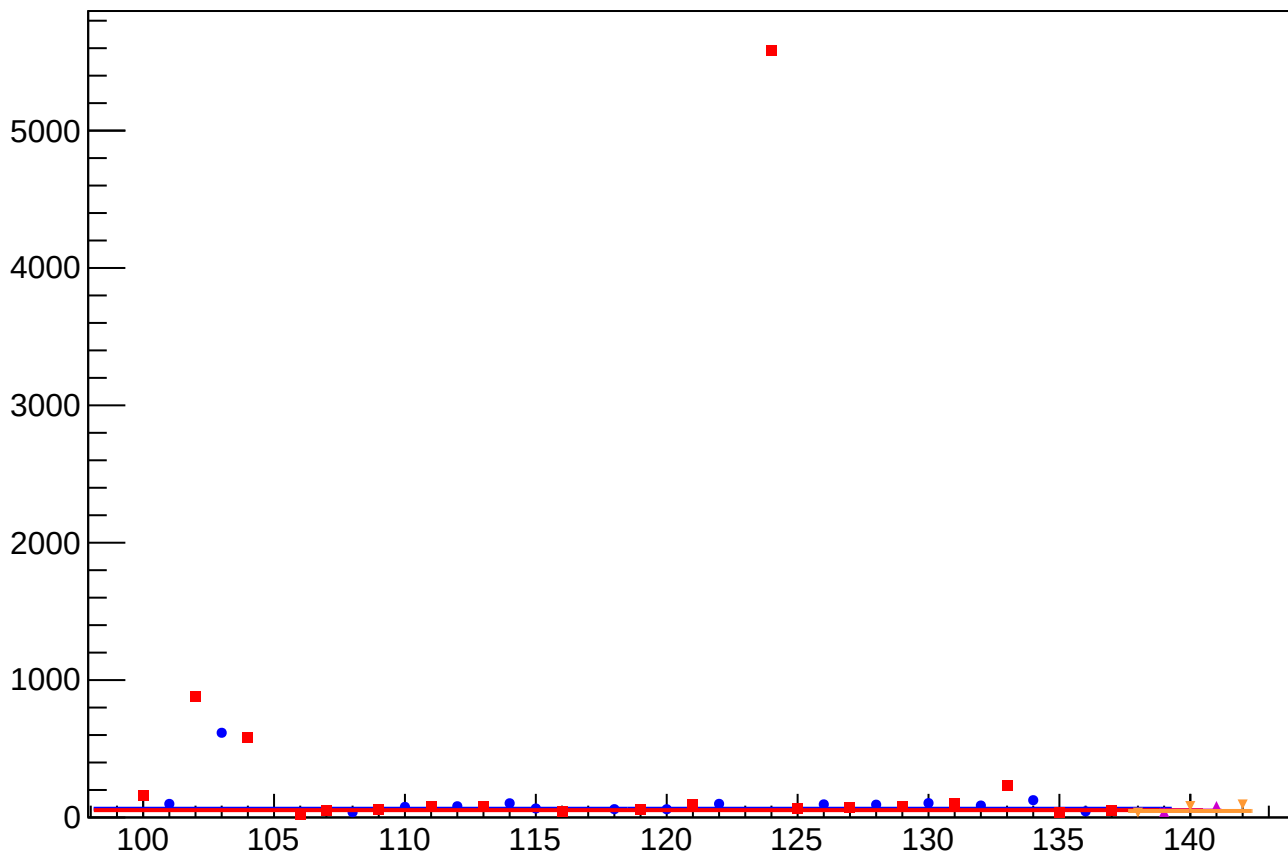
Right: 0.025+/-0.018 χ^2/NDF : 27.2/34

In: 0.004+/-0.023 χ^2/NDF : 13.5/17

Out: 0.022+/-0.021 χ^2/NDF : 16.4/21

All: 0.014+/-0.015 χ^2/NDF : 30.3/39

asym_at2_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 63.454+/-0.019 χ^2/NDF : 2445255.1/15

Left Out: 47.222+/-0.027 χ^2/NDF : 656098.1/2

Right Out: 53.206+/-0.018 χ^2/NDF : 3945779.6/18

Left In: 50.119+/-0.031 χ^2/NDF : 327935.7/1

Left: 48.490+/-0.020 χ^2/NDF : 989017.7/4

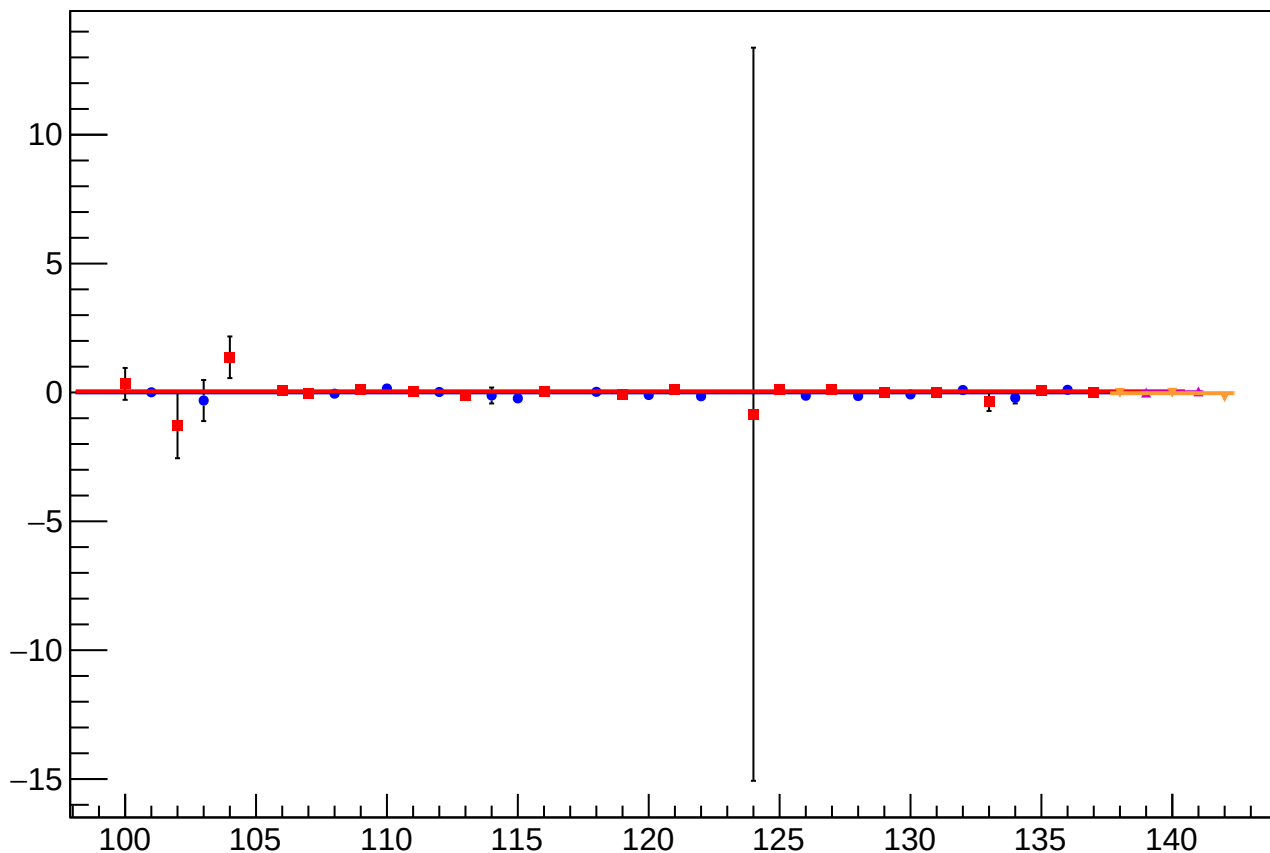
Right: 57.863+/-0.013 χ^2/NDF : 6545762.5/34

In: 59.706+/-0.016 χ^2/NDF : 2908160.7/17

Out: 51.442+/-0.015 χ^2/NDF : 4636125.5/21

All: 55.157+/-0.011 χ^2/NDF : 7685504.2/39

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003+/-0.027 χ^2/NDF : 13.3/15

Left Out: -0.029+/-0.038 χ^2/NDF : 1.3/2

Right Out: 0.044+/-0.025 χ^2/NDF : 12.7/18

Left In: 0.008+/-0.044 χ^2/NDF : 0.2/1

Left: -0.013+/-0.029 χ^2/NDF : 1.9/4

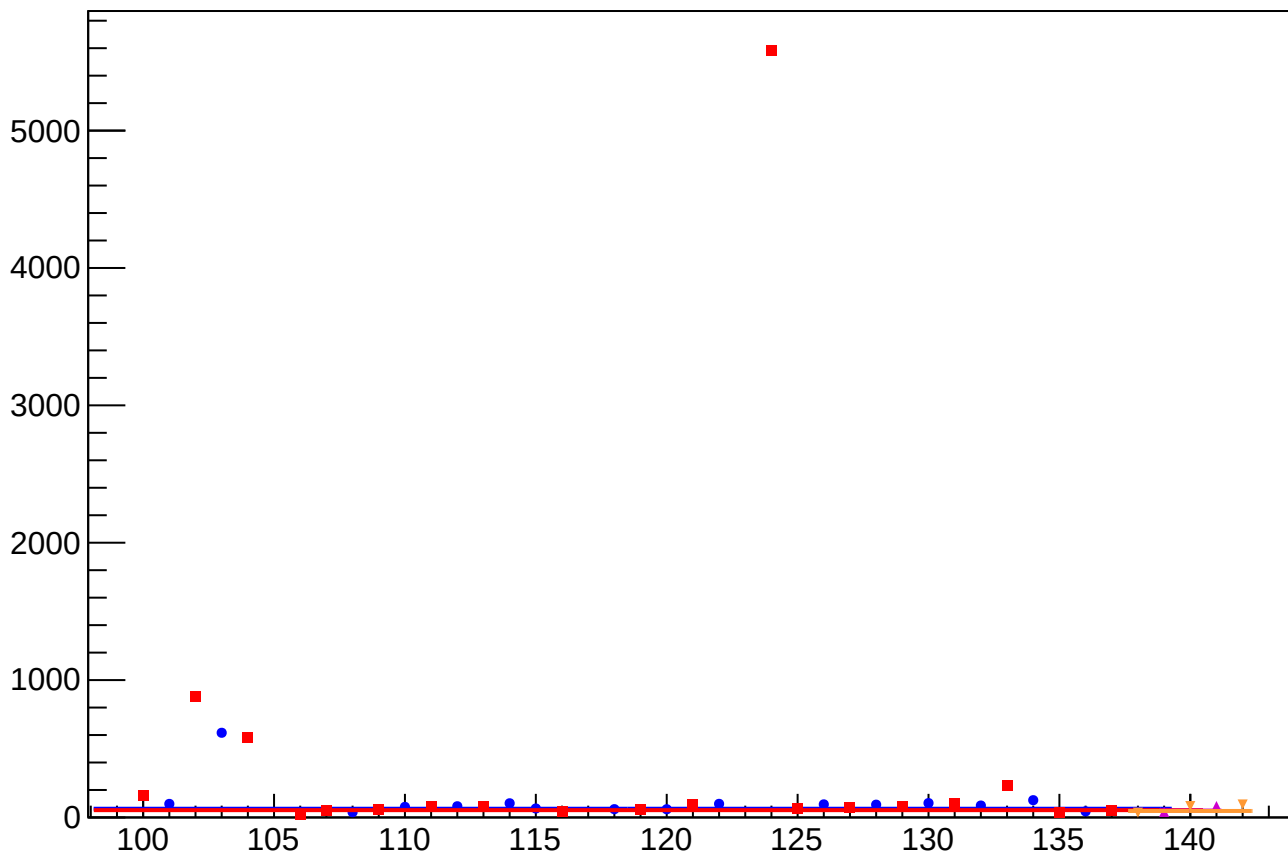
Right: 0.025+/-0.018 χ^2/NDF : 27.2/34

In: 0.004+/-0.023 χ^2/NDF : 13.5/17

Out: 0.022+/-0.021 χ^2/NDF : 16.4/21

All: 0.014+/-0.015 χ^2/NDF : 30.3/39

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 63.454+/-0.019 χ^2/NDF : 2445255.1/15

Left Out: 47.222+/-0.027 χ^2/NDF : 656098.1/2

Right Out: 53.206+/-0.018 χ^2/NDF : 3945779.6/18

Left In: 50.119+/-0.031 χ^2/NDF : 327935.7/1

Left: 48.490+/-0.020 χ^2/NDF : 989017.7/4

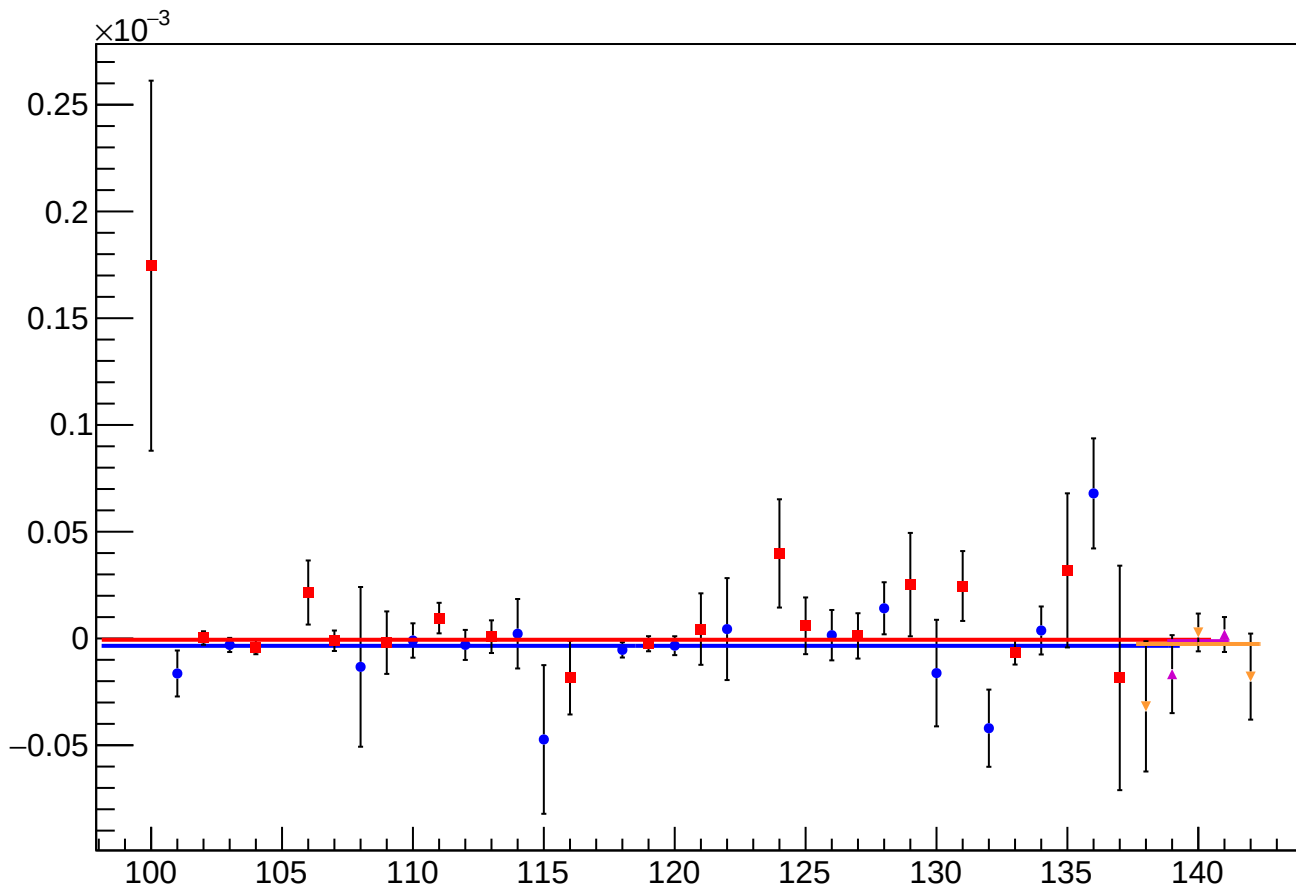
Right: 57.863+/-0.013 χ^2/NDF : 6545762.5/34

In: 59.706+/-0.016 χ^2/NDF : 2908160.7/17

Out: 51.442+/-0.015 χ^2/NDF : 4636125.5/21

All: 55.157+/-0.011 χ^2/NDF : 7685504.2/39

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 18.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 19.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.9/1

Left: -0.000+/-0.000 χ^2/NDF : 2.7/4

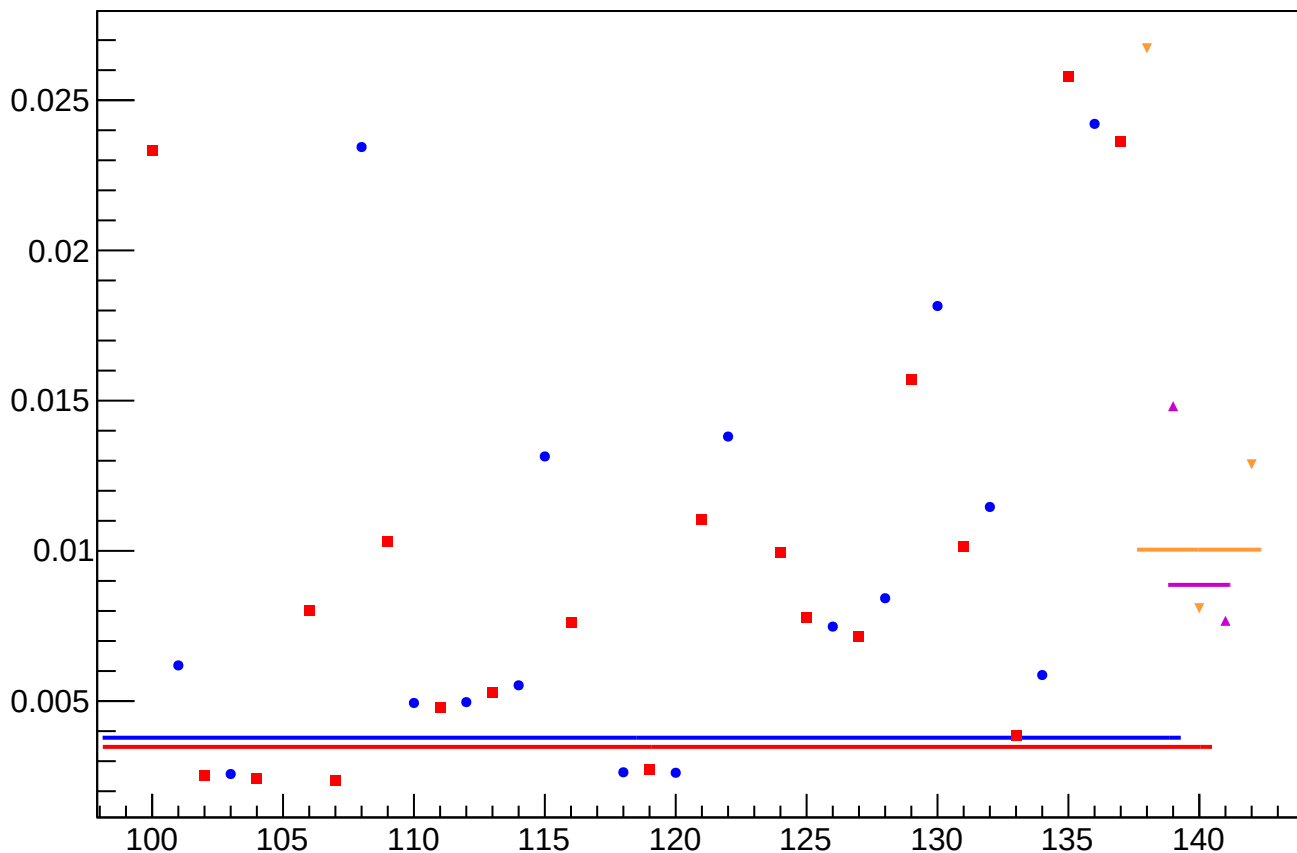
Right: -0.000+/-0.000 χ^2/NDF : 39.5/34

In: -0.000+/-0.000 χ^2/NDF : 19.8/17

Out: -0.000+/-0.000 χ^2/NDF : 21.1/21

All: -0.000+/-0.000 χ^2/NDF : 42.2/39

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000

χ^2/NDF : 4719536.5/15

Left Out: 0.010 $\pm$ 0.000

χ^2/NDF : 735040.2/2

Right Out: 0.003 $\pm$ 0.000

χ^2/NDF : 4495340.7/18

Left In: 0.009 $\pm$ 0.000

χ^2/NDF : 254851.0/1

Left: 0.009 $\pm$ 0.000

χ^2/NDF : 1013332.1/4

Right: 0.004 $\pm$ 0.000

χ^2/NDF : 9247440.2/34

In: 0.004 $\pm$ 0.000

χ^2/NDF : 5850302.7/17

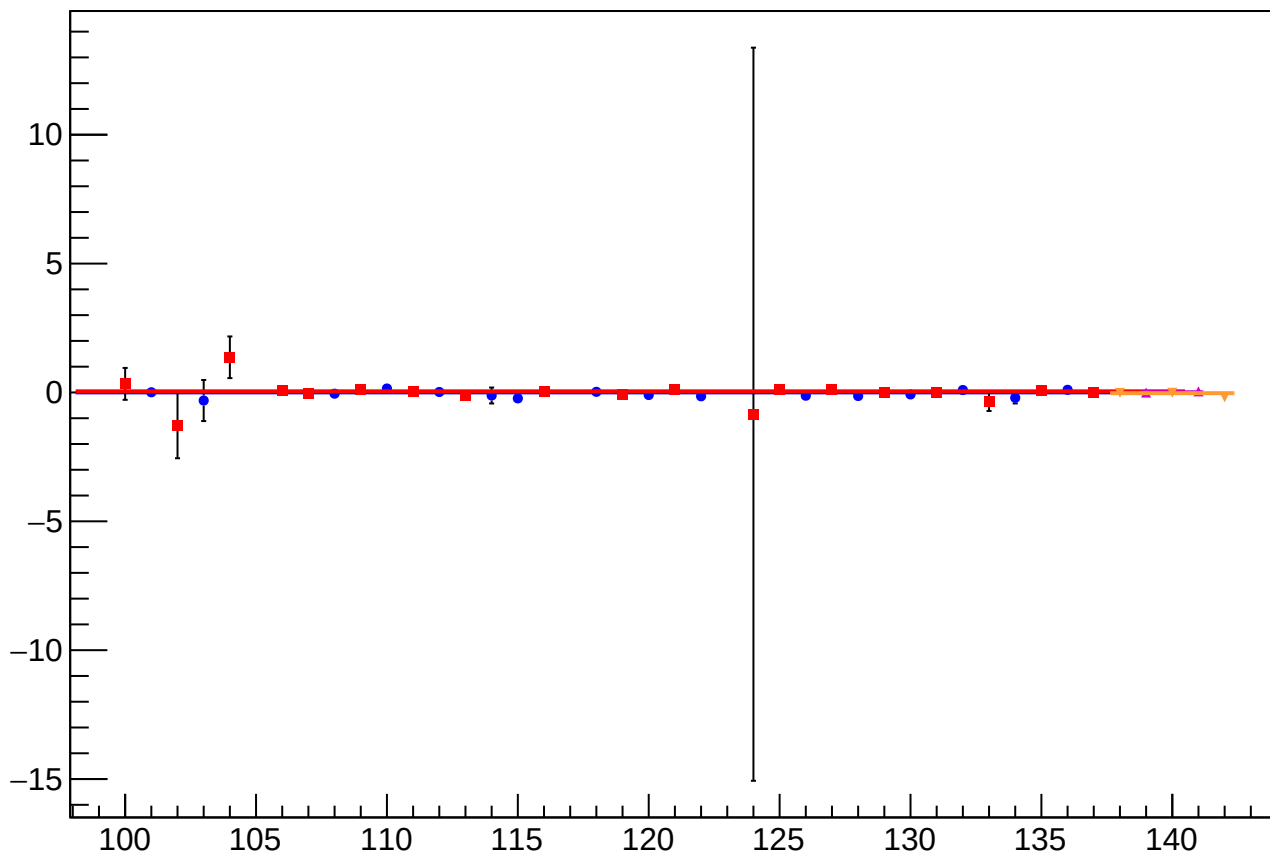
Out: 0.004 $\pm$ 0.000

χ^2/NDF : 6583498.0/21

All: 0.004 $\pm$ 0.000

χ^2/NDF : 12477864.3/39

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003+/-0.027 χ^2/NDF : 13.3/15

Left Out: -0.029+/-0.038 χ^2/NDF : 1.3/2

Right Out: 0.044+/-0.025 χ^2/NDF : 12.7/18

Left In: 0.008+/-0.044 χ^2/NDF : 0.2/1

Left: -0.013+/-0.029 χ^2/NDF : 1.9/4

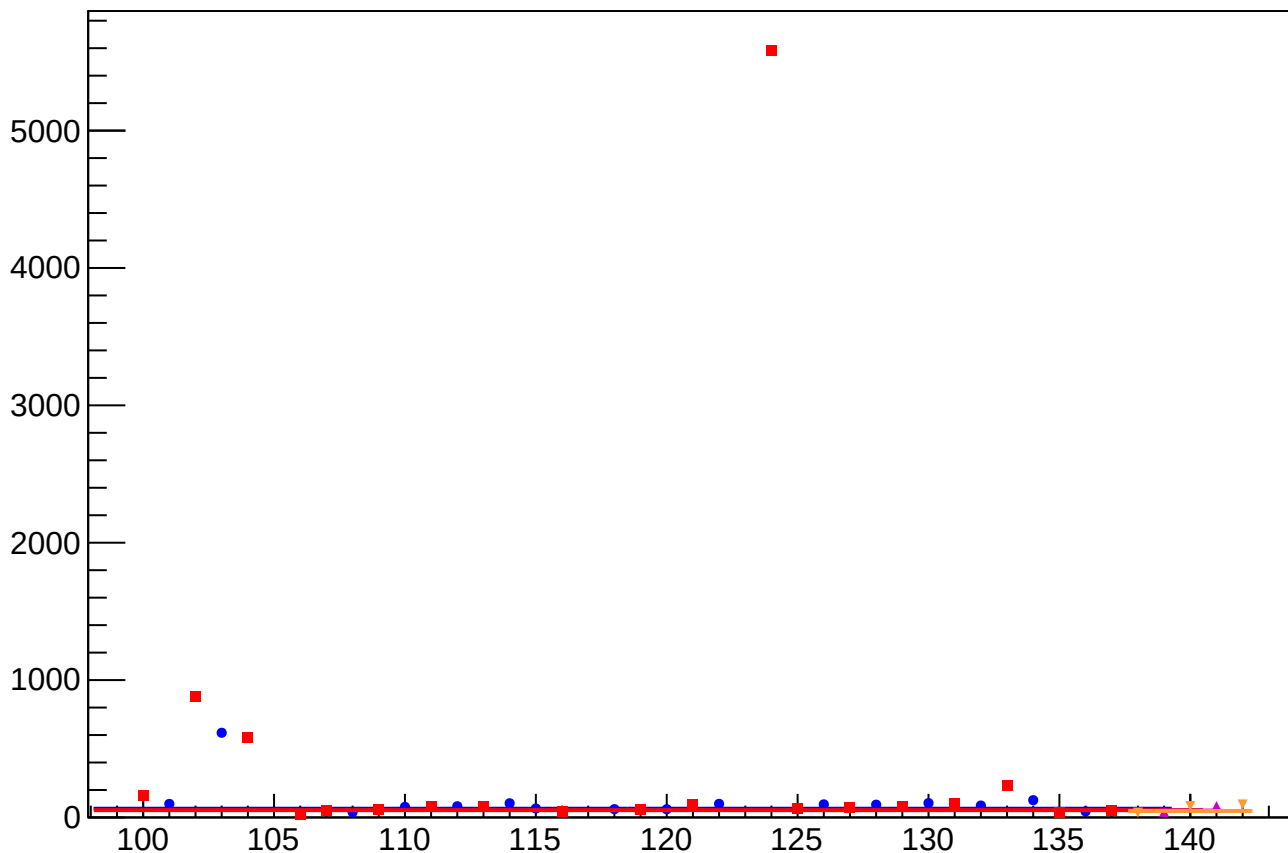
Right: 0.025+/-0.018 χ^2/NDF : 27.2/34

In: 0.004+/-0.023 χ^2/NDF : 13.5/17

Out: 0.022+/-0.021 χ^2/NDF : 16.4/21

All: 0.014+/-0.015 χ^2/NDF : 30.3/39

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 63.463+/-0.019 χ^2/NDF : 2444357.3/15

Left Out: 47.222+/-0.027 χ^2/NDF : 656189.4/2

Right Out: 53.201+/-0.018 χ^2/NDF : 3946328.9/18

Left In: 50.131+/-0.031 χ^2/NDF : 327802.1/1

Left: 48.496+/-0.020 χ^2/NDF : 989012.0/4

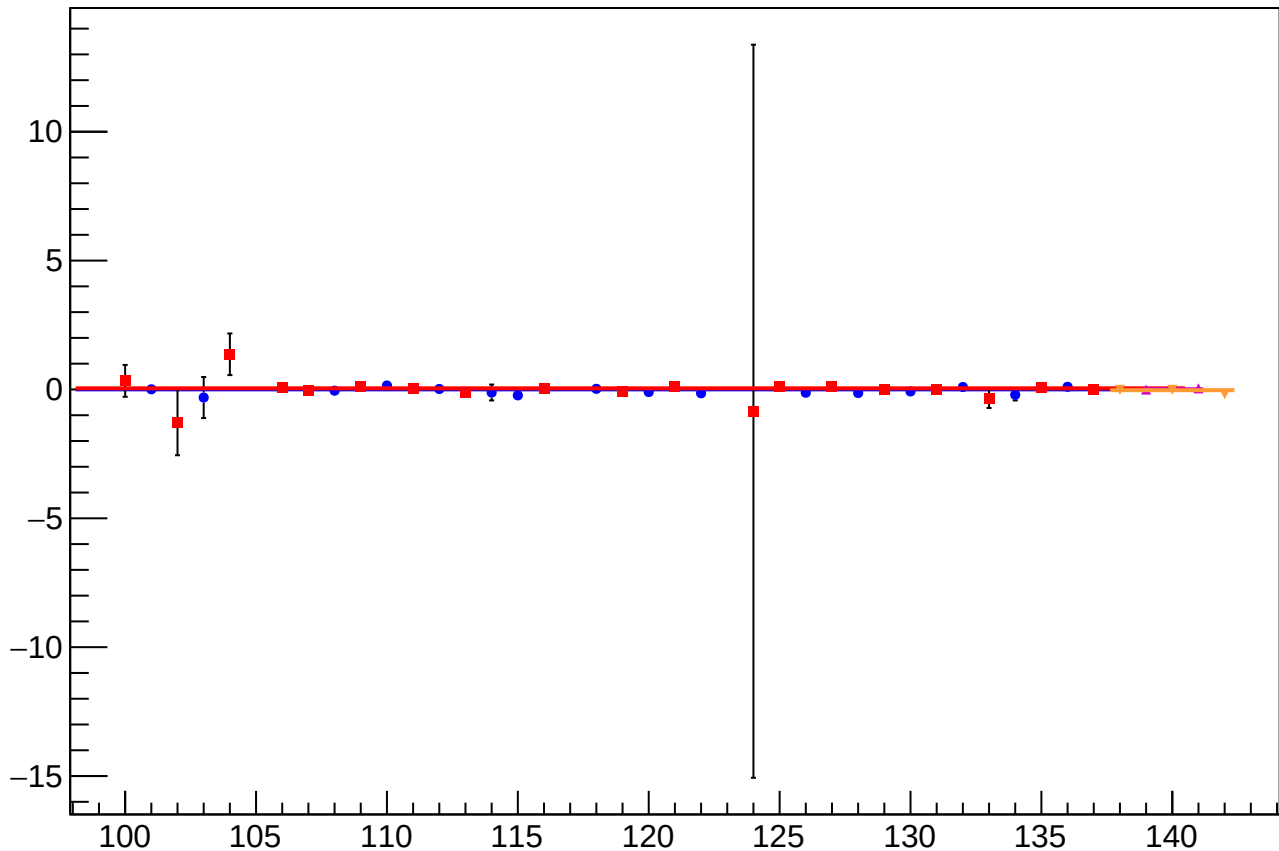
Right: 57.864+/-0.013 χ^2/NDF : 6545828.7/34

In: 59.716+/-0.016 χ^2/NDF : 2907026.7/17

Out: 51.438+/-0.015 χ^2/NDF : 4636696.1/21

All: 55.160+/-0.011 χ^2/NDF : 7685380.3/39

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003+/-0.027 χ^2/NDF : 13.3/15

Left Out: -0.029+/-0.038 χ^2/NDF : 1.3/2

Right Out: 0.044+/-0.025 χ^2/NDF : 12.7/18

Left In: 0.008+/-0.044 χ^2/NDF : 0.2/1

Left: -0.013+/-0.029 χ^2/NDF : 1.9/4

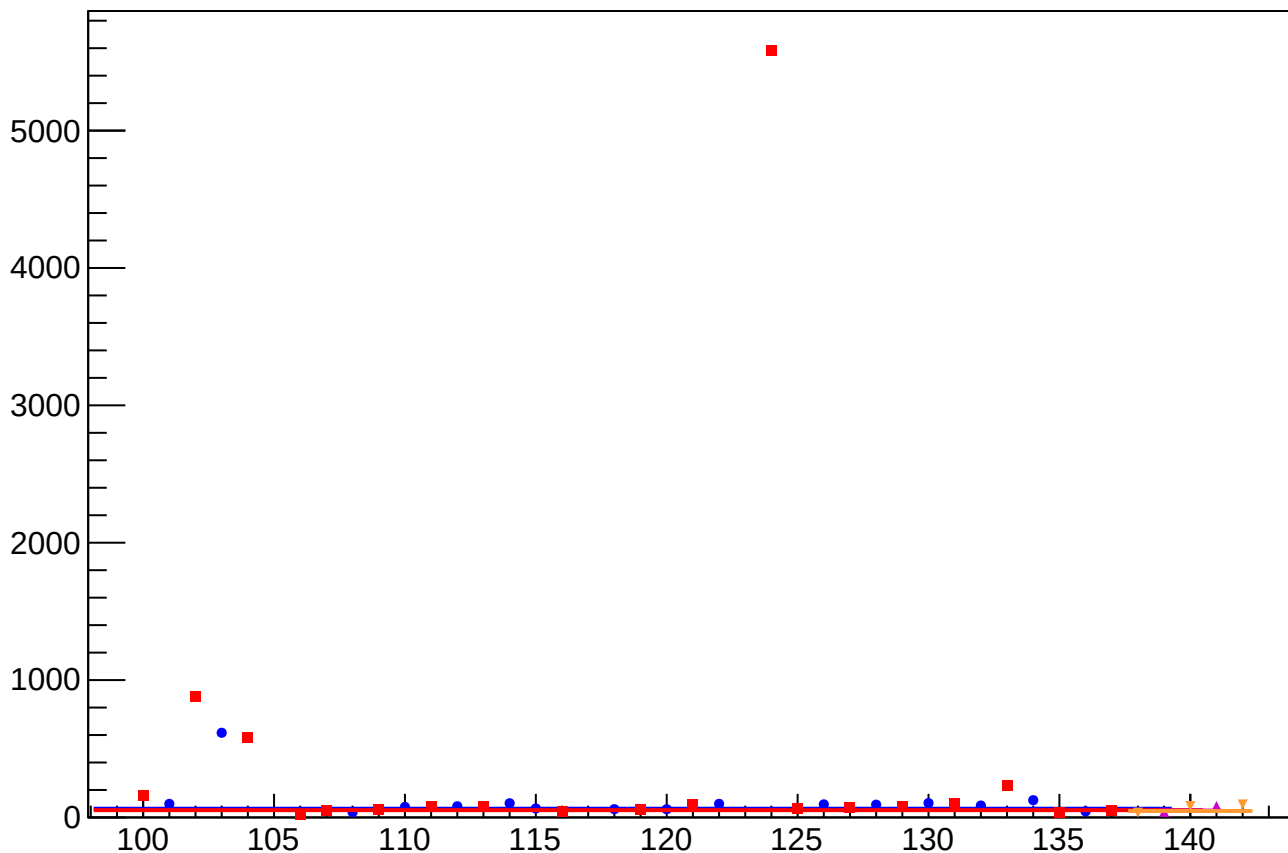
Right: 0.025+/-0.018 χ^2/NDF : 27.2/34

In: 0.004+/-0.023 χ^2/NDF : 13.5/17

Out: 0.022+/-0.021 χ^2/NDF : 16.4/21

All: 0.014+/-0.015 χ^2/NDF : 30.3/39

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 63.463+/-0.019 χ^2/NDF : 2444357.3/15

Left Out: 47.222+/-0.027 χ^2/NDF : 656189.4/2

Right Out: 53.201+/-0.018 χ^2/NDF : 3946328.9/18

Left In: 50.131+/-0.031 χ^2/NDF : 327802.1/1

Left: 48.496+/-0.020 χ^2/NDF : 989012.0/4

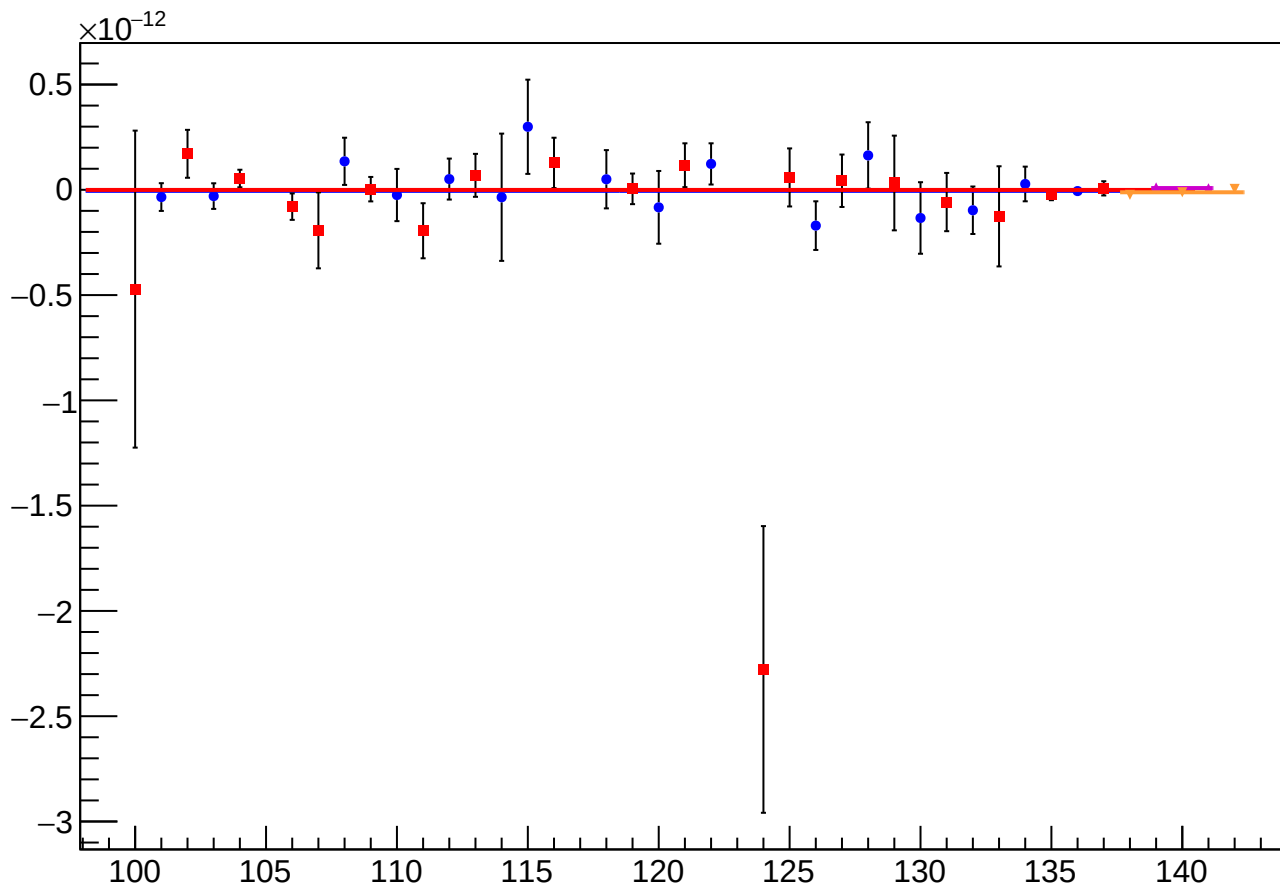
Right: 57.864+/-0.013 χ^2/NDF : 6545828.7/34

In: 59.716+/-0.016 χ^2/NDF : 2907026.7/17

Out: 51.438+/-0.015 χ^2/NDF : 4636696.1/21

All: 55.160+/-0.011 χ^2/NDF : 7685380.3/39

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 10.8/15

Left Out: -0.000+/-0.000 χ^2 /NDF:1.3/2

Right Out: -0.000+/-0.000 χ^2 /NDF: 25.1/18

Left In: 0.000+/-0.000 χ^2 /NDF:0.0/1

Left: -0.000+/-0.000 χ^2 /NDF: 3.7/4

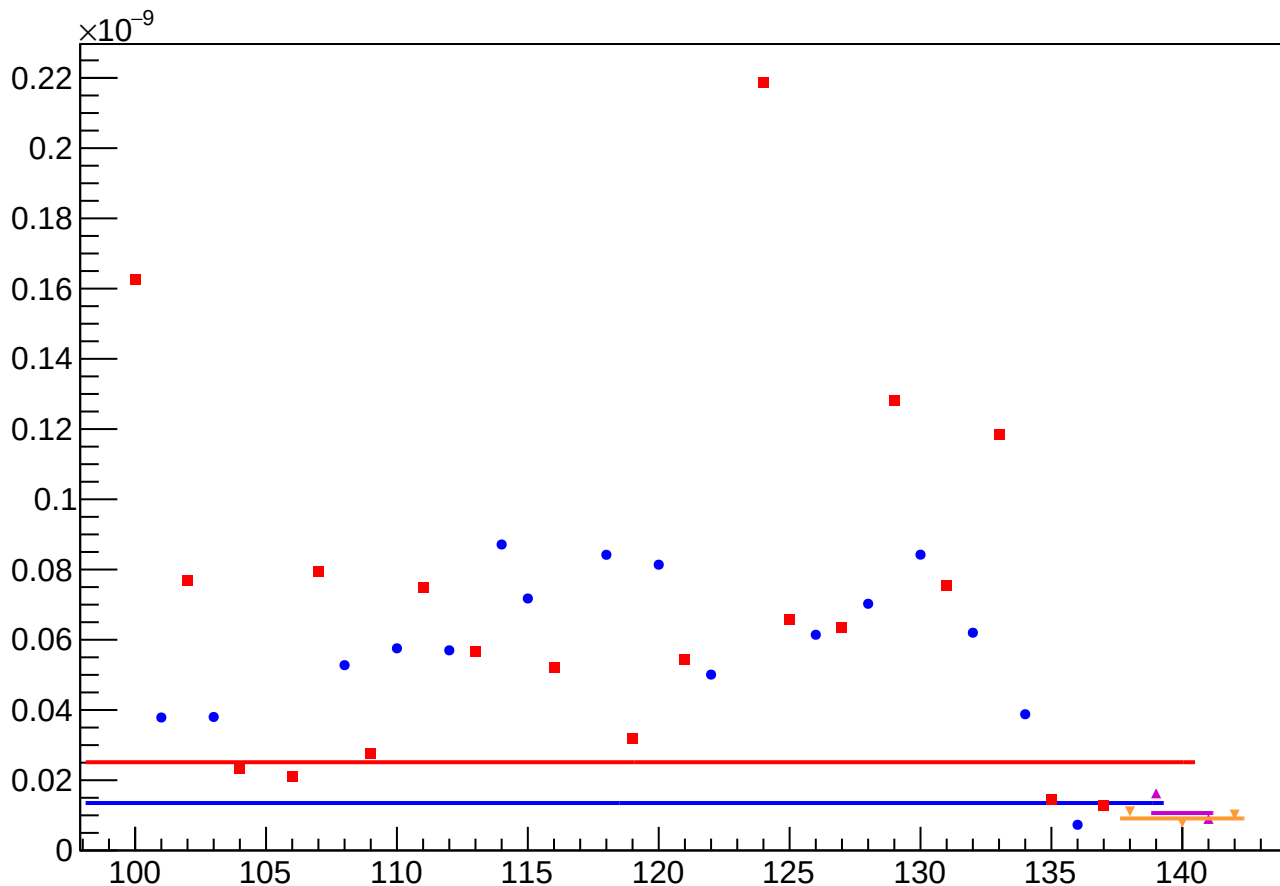
Right: -0.000+/-0.000 χ^2 /NDF: 36.0/34

In: 0.000+/-0.000 χ^2 /NDF:11.7/17

Out: -0.000+/-0.000 χ^2 /NDF:26.9/21

All: -0.000+/-0.000 χ^2 /NDF: 39.7/39

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4993378.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 65289.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3578472.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 169193.6/1

Left: 0.000+/-0.000 χ^2/NDF : 262005.4/4

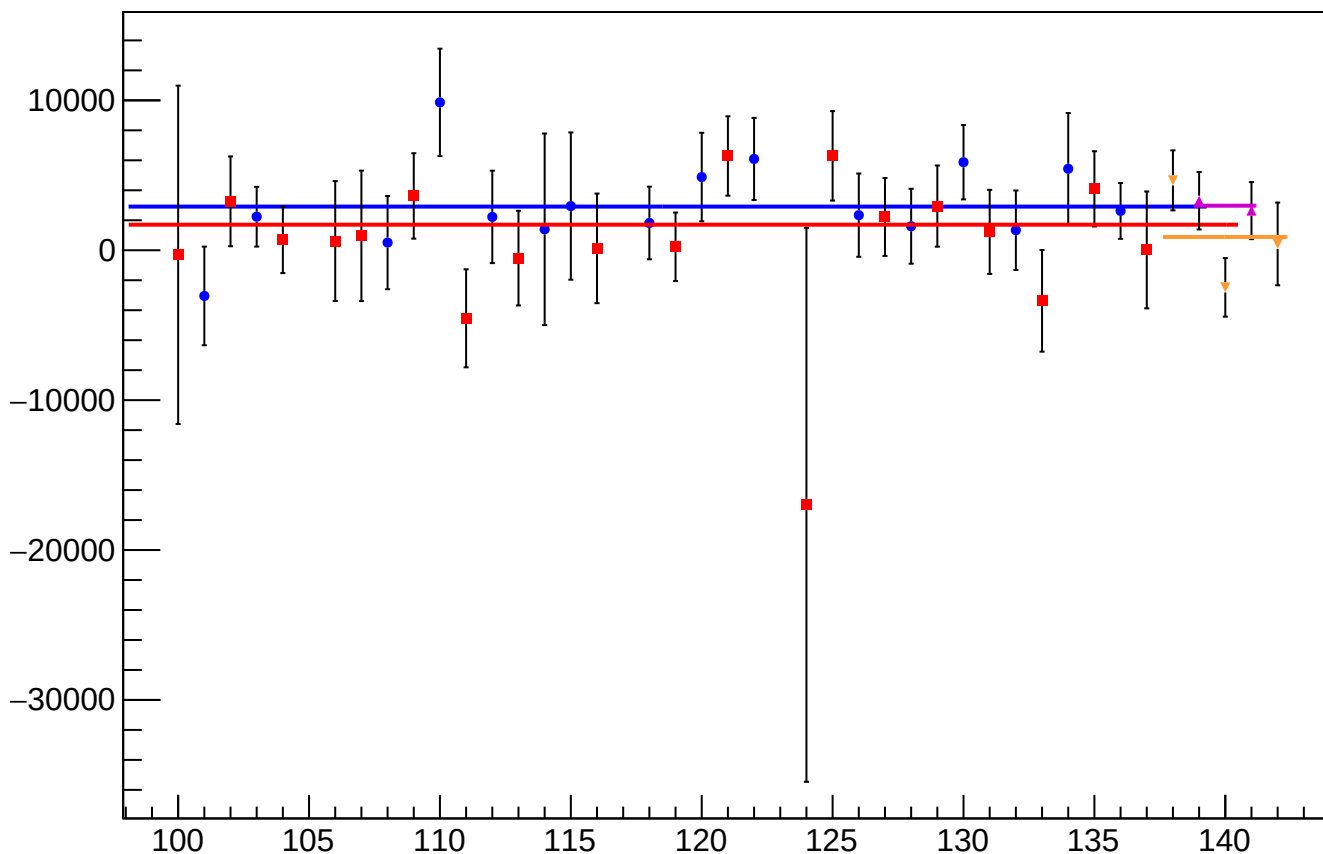
Right: 0.000+/-0.000 χ^2/NDF : 9384983.4/34

In: 0.000+/-0.000 χ^2/NDF : 5237961.4/17

Out: 0.000+/-0.000 χ^2/NDF : 5426317.1/21

All: 0.000+/-0.000 χ^2/NDF : 10667472.4/39

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2912.991+/-695.062 χ^2/NDF : 12.4/15

Left Out: 885.642+/-1247.036 χ^2/NDF : 6.6/2

Right Out: 1704.904+/-706.846 χ^2/NDF : 15.8/18

Left In: 2972.476+/-1350.895 χ^2/NDF : 0.1/1

Left: 1845.765+/-916.308 χ^2/NDF : 7.9/4

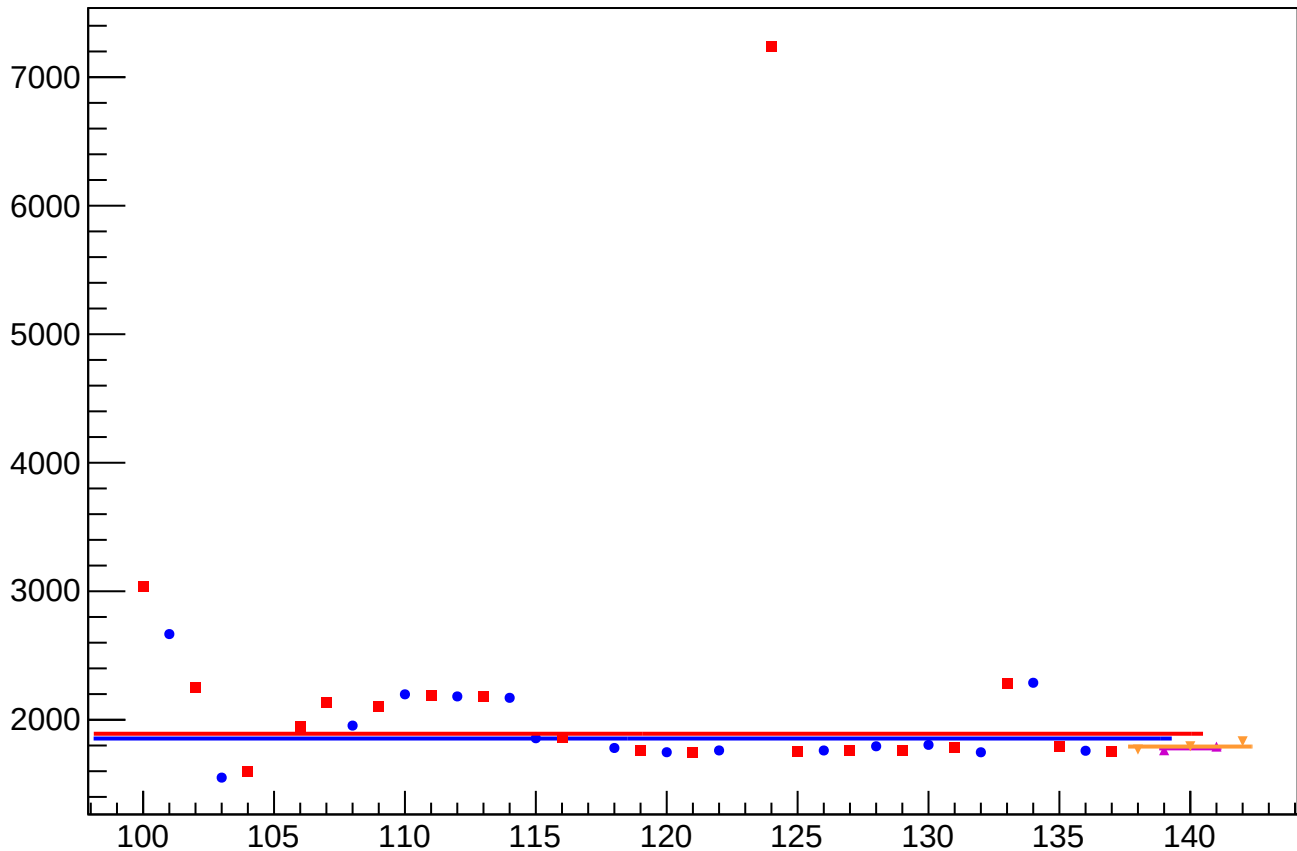
Right: 2319.102+/-495.597 χ^2/NDF : 29.8/34

In: 2925.442+/-618.051 χ^2/NDF : 12.5/17

Out: 1505.691+/-614.931 χ^2/NDF : 22.7/21

All: 2211.974+/-435.921 χ^2/NDF : 37.9/39

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1854.314+/-0.491 χ^2/NDF : 263322.7/15

Left Out: 1791.802+/-0.882 χ^2/NDF : 717.6/2

Right Out: 1891.469+/-0.499 χ^2/NDF : 364050.6/18

Left In: 1777.562+/-0.955 χ^2/NDF : 217.4/1

Left: 1785.251+/-0.648 χ^2/NDF : 1055.0/4

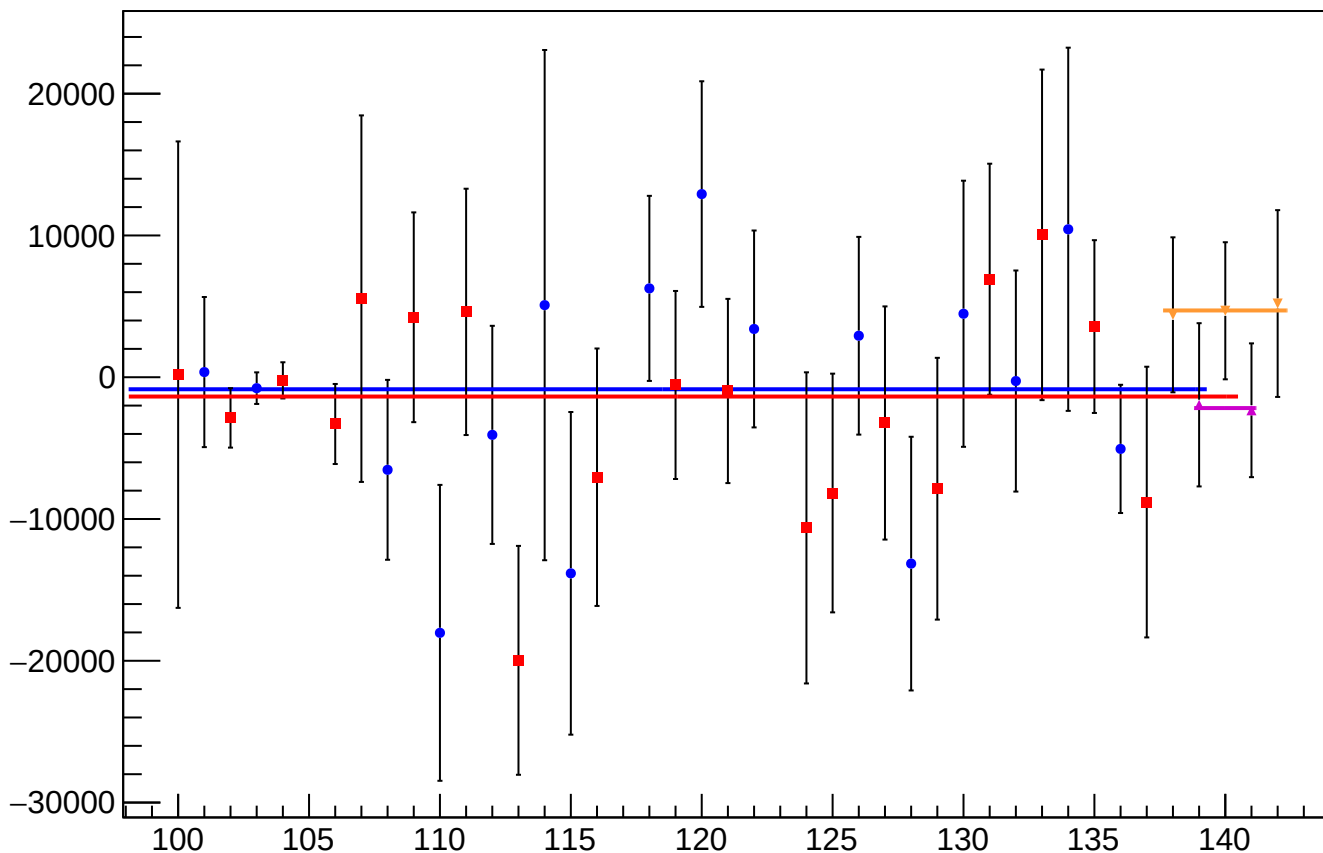
Right: 1872.622+/-0.350 χ^2/NDF : 630189.4/34

In: 1838.248+/-0.437 χ^2/NDF : 268644.6/17

Out: 1867.319+/-0.434 χ^2/NDF : 374447.9/21

All: 1852.883+/-0.308 χ^2/NDF : 645320.0/39

asym_atl1r2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -847.977 ± 962.920 χ^2/NDF : 13.9/15

Left Out: 4709.772 ± 3173.375 χ^2/NDF : 0.0/2

Right Out: -1361.523 ± 915.925 χ^2/NDF : 14.0/18

Left In: -2175.480 ± 3649.437 χ^2/NDF : 0.0/1

Left: 1745.237 ± 2394.662 χ^2/NDF : 2.0/4

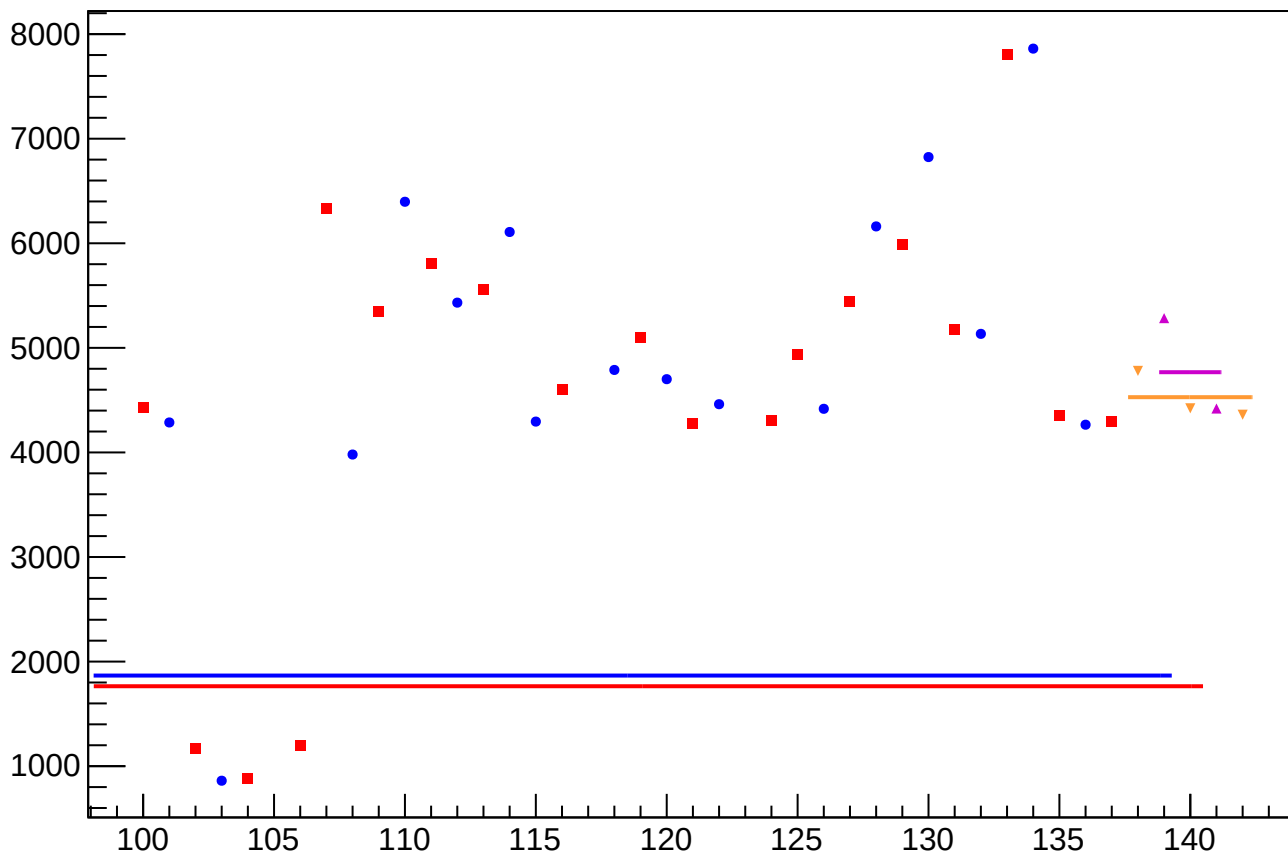
Right: -1117.587 ± 663.649 χ^2/NDF : 28.0/34

In: -934.381 ± 931.055 χ^2/NDF : 14.0/17

Out: -894.641 ± 880.003 χ^2/NDF : 17.4/21

All: -913.392 ± 639.543 χ^2/NDF : 31.4/39

asym_atl1r2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1866.405+/-0.681 χ^2/NDF : 6849638.3/15

Left Out: 4528.341+/-2.244 χ^2/NDF : 6494.6/2

Right Out: 1764.281+/-0.648 χ^2/NDF : 6434807.7/18

Left In: 4767.225+/-2.581 χ^2/NDF : 26962.7/1

Left: 4631.195+/-1.693 χ^2/NDF : 38337.0/4

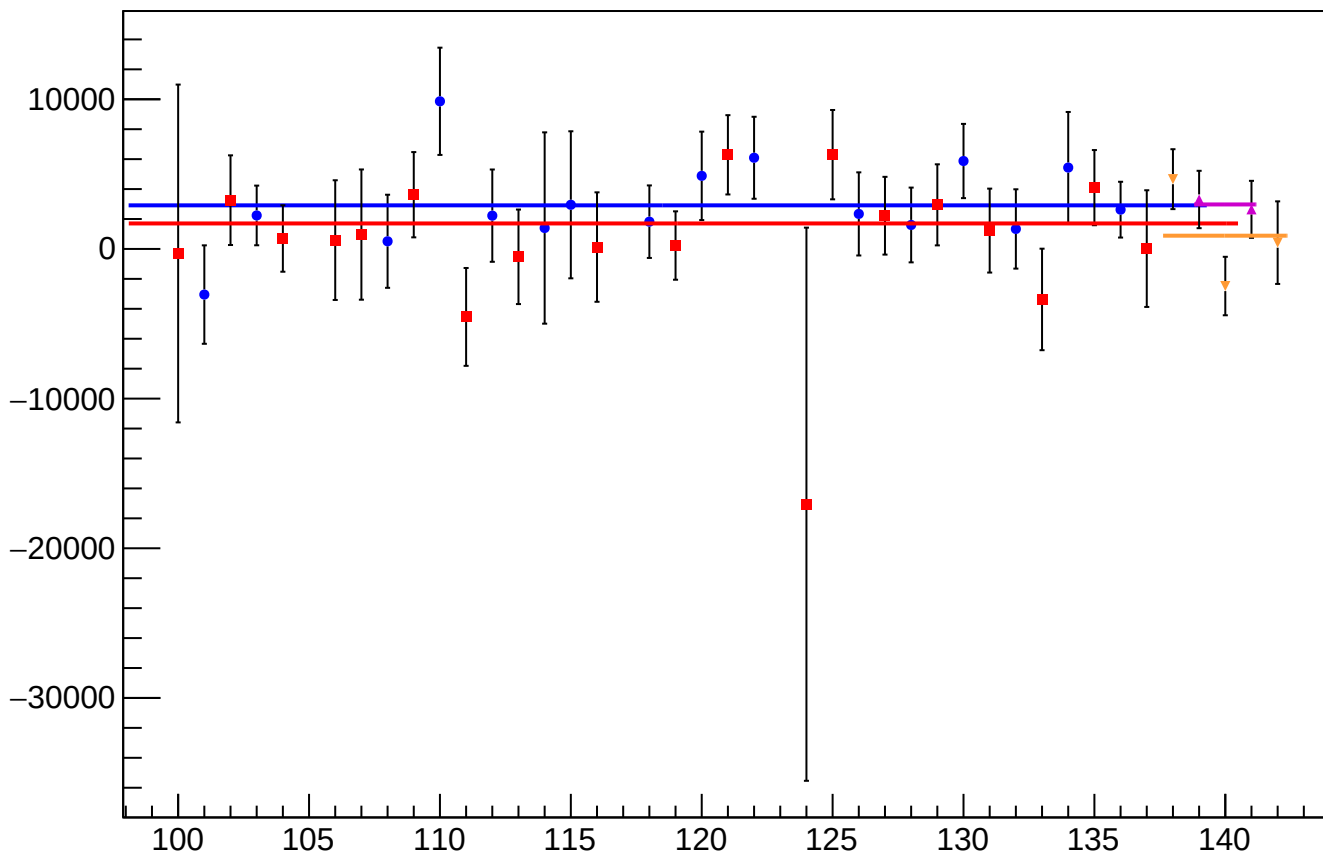
Right: 1812.790+/-0.469 χ^2/NDF : 13296256.2/34

In: 2055.213+/-0.658 χ^2/NDF : 8057983.8/17

Out: 1976.837+/-0.622 χ^2/NDF : 7841955.5/21

All: 2013.817+/-0.452 χ^2/NDF : 15907424.6/3

cor_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2913.091 $\pm$ 695.062 χ^2 /NDF: 12.4/15

Left Out: 885.502 $\pm$ 1247.036 χ^2 /NDF: 6.6/2

Right Out: 1703.523 $\pm$ 706.847 χ^2 /NDF: 15.8/18

Left In: 2972.863 $\pm$ 1350.895 χ^2 /NDF: 0.1/1

Left: 1845.868 $\pm$ 916.308 χ^2 /NDF: 7.9/4

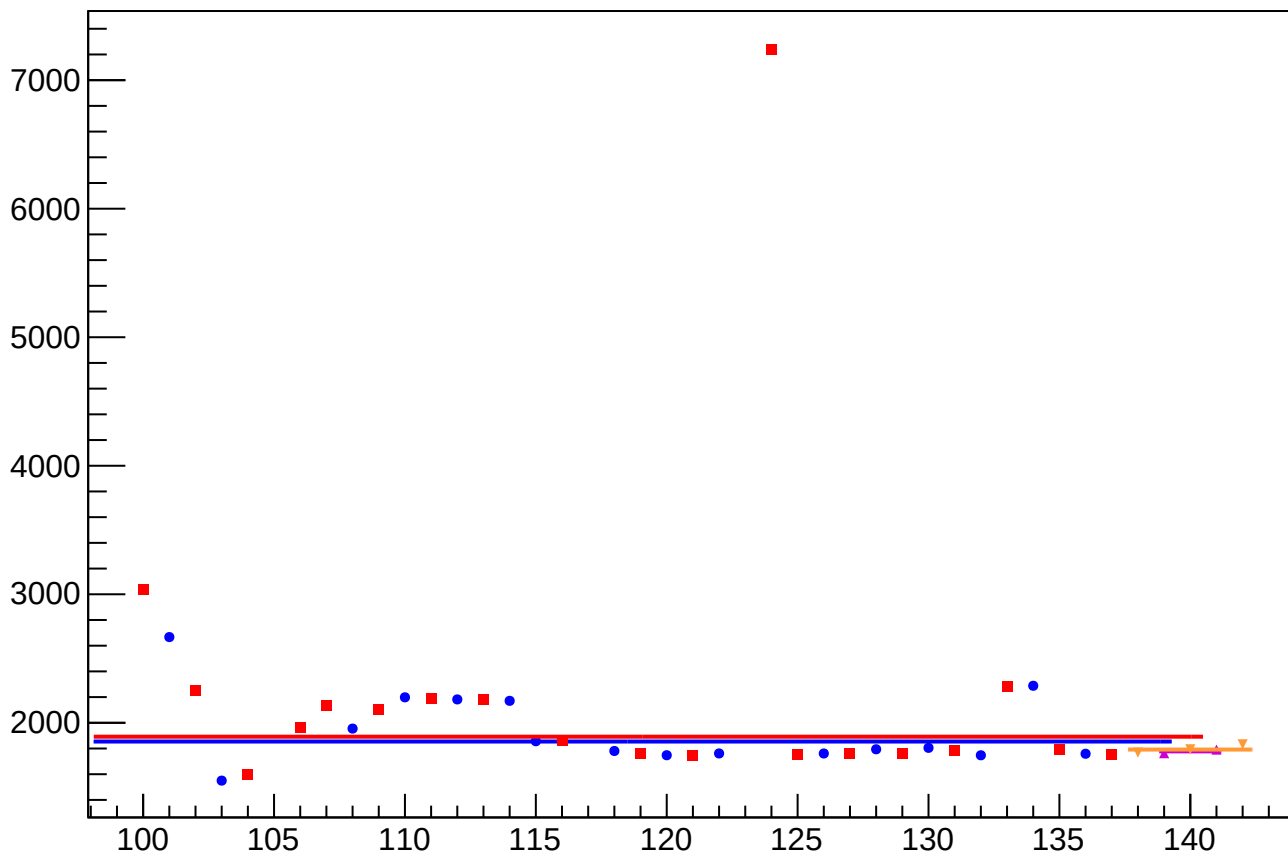
Right: 2318.475 $\pm$ 495.597 χ^2 /NDF: 29.8/34

In: 2925.602 $\pm$ 618.051 χ^2 /NDF: 12.5/17

Out: 1504.611 $\pm$ 614.932 χ^2 /NDF: 22.7/21

All: 2211.512 $\pm$ 435.921 χ^2 /NDF: 37.9/39

cor_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1854.314+/-0.491 χ^2/NDF : 263322.5/15

Left Out: 1791.802+/-0.882 χ^2/NDF : 717.6/2

Right Out: 1891.927+/-0.499 χ^2/NDF : 364292.2/18

Left In: 1777.562+/-0.955 χ^2/NDF : 217.4/1

Left: 1785.251+/-0.648 χ^2/NDF : 1055.0/4

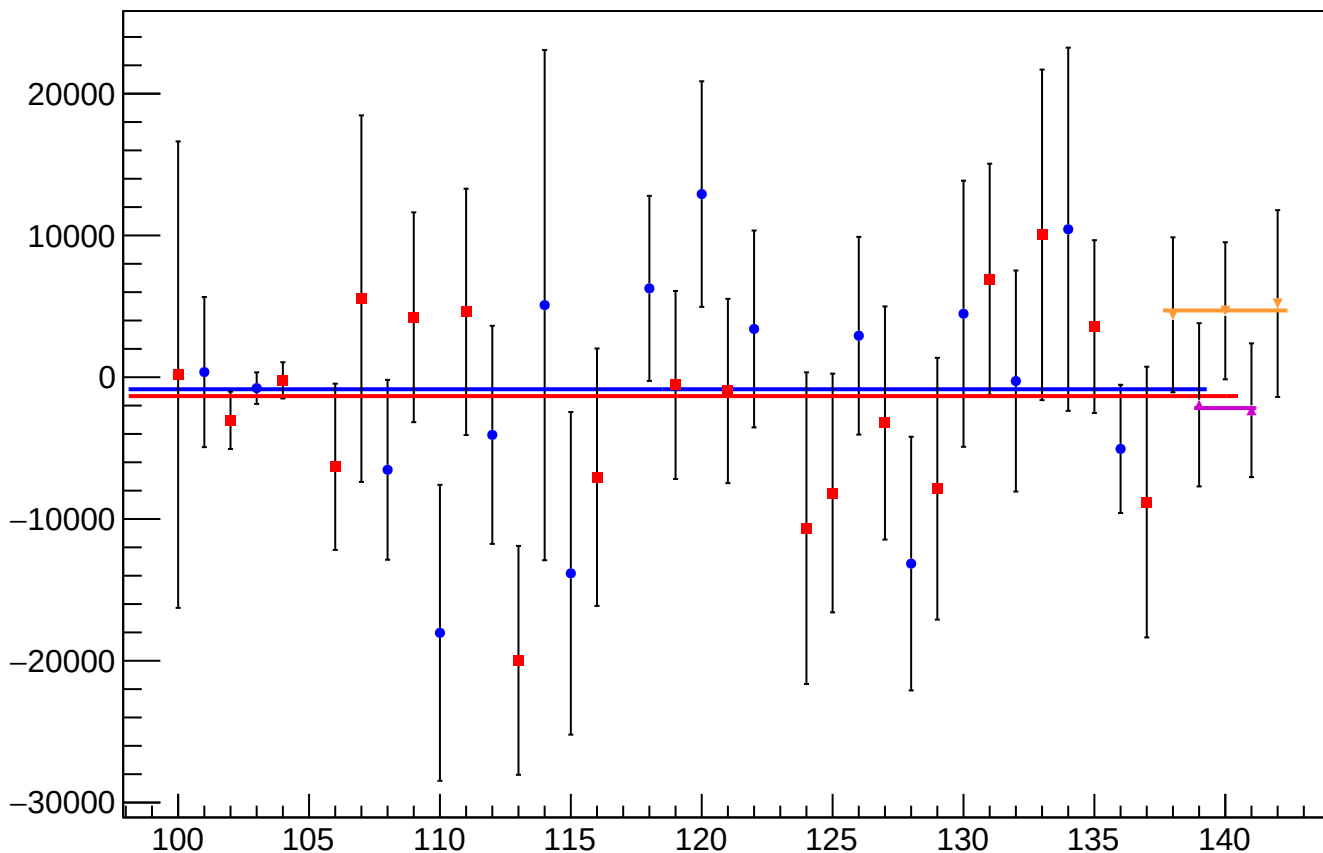
Right: 1872.844+/-0.350 χ^2/NDF : 630500.1/34

In: 1838.248+/-0.437 χ^2/NDF : 268644.5/17

Out: 1867.658+/-0.434 χ^2/NDF : 374777.6/21

All: 1853.051+/-0.308 χ^2/NDF : 645701.5/39

asym_atl1r2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -847.504 ± 962.866 χ^2/NDF : 13.9/15

Left Out: 4709.499 ± 3173.366 χ^2/NDF : 0.0/2

Right Out: -1331.371 ± 948.163 χ^2/NDF : 14.4/18

Left In: -2175.352 ± 3649.437 χ^2/NDF : 0.0/1

Left: 1745.147 ± 2394.658 χ^2/NDF : 2.0/4

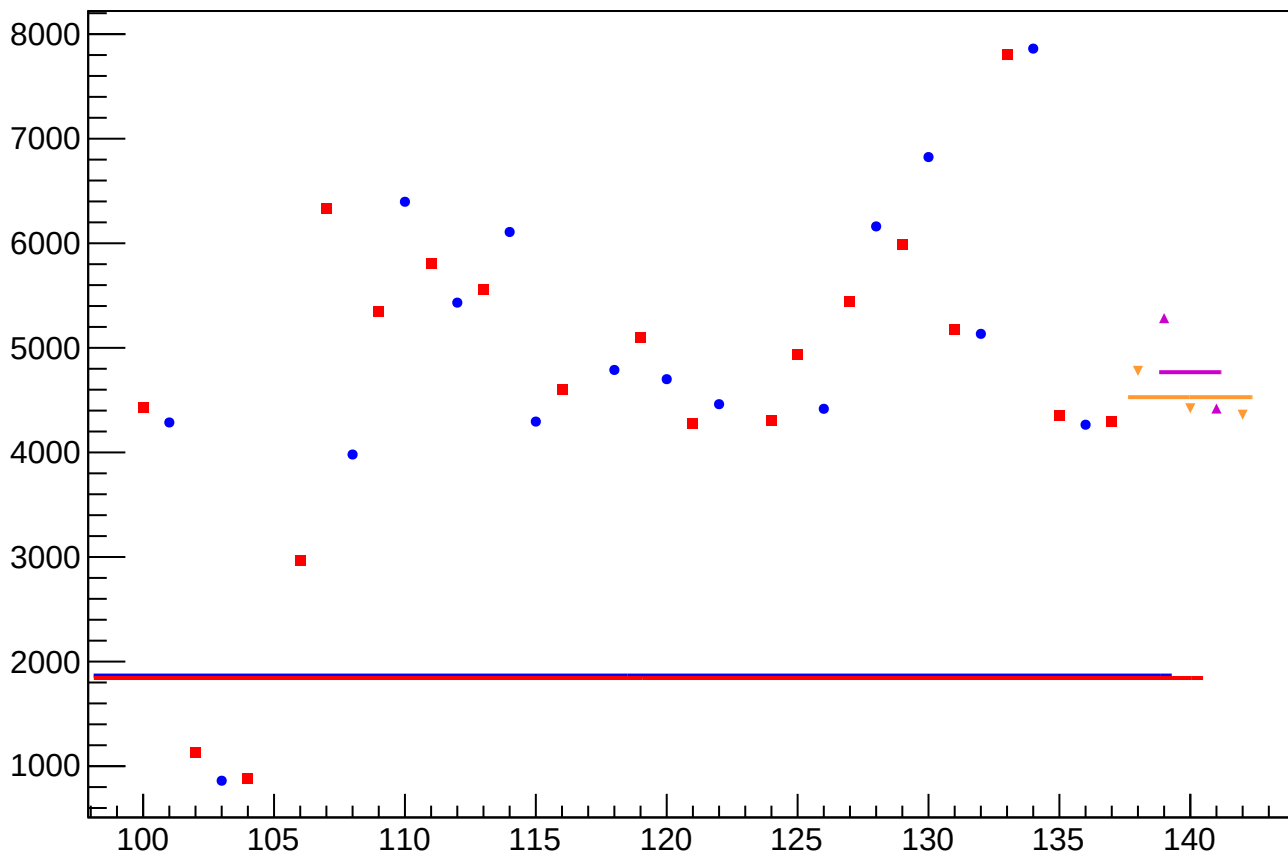
Right: -1093.160 ± 675.591 χ^2/NDF : 28.4/34

In: -933.921 ± 931.007 χ^2/NDF : 14.0/17

Out: -836.277 ± 908.478 χ^2/NDF : 17.8/21

All: -883.903 ± 650.210 χ^2/NDF : 31.8/39

asym_atl1r2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1866.251+/-0.681 χ^2/NDF : 6850061.4/15

Left Out: 4528.327+/-2.244 χ^2/NDF : 6495.4/2

Right Out: 1842.882+/-0.670 χ^2/NDF : 6458456.4/18

Left In: 4767.225+/-2.581 χ^2/NDF : 26963.2/1

Left: 4631.187+/-1.693 χ^2/NDF : 38338.9/4

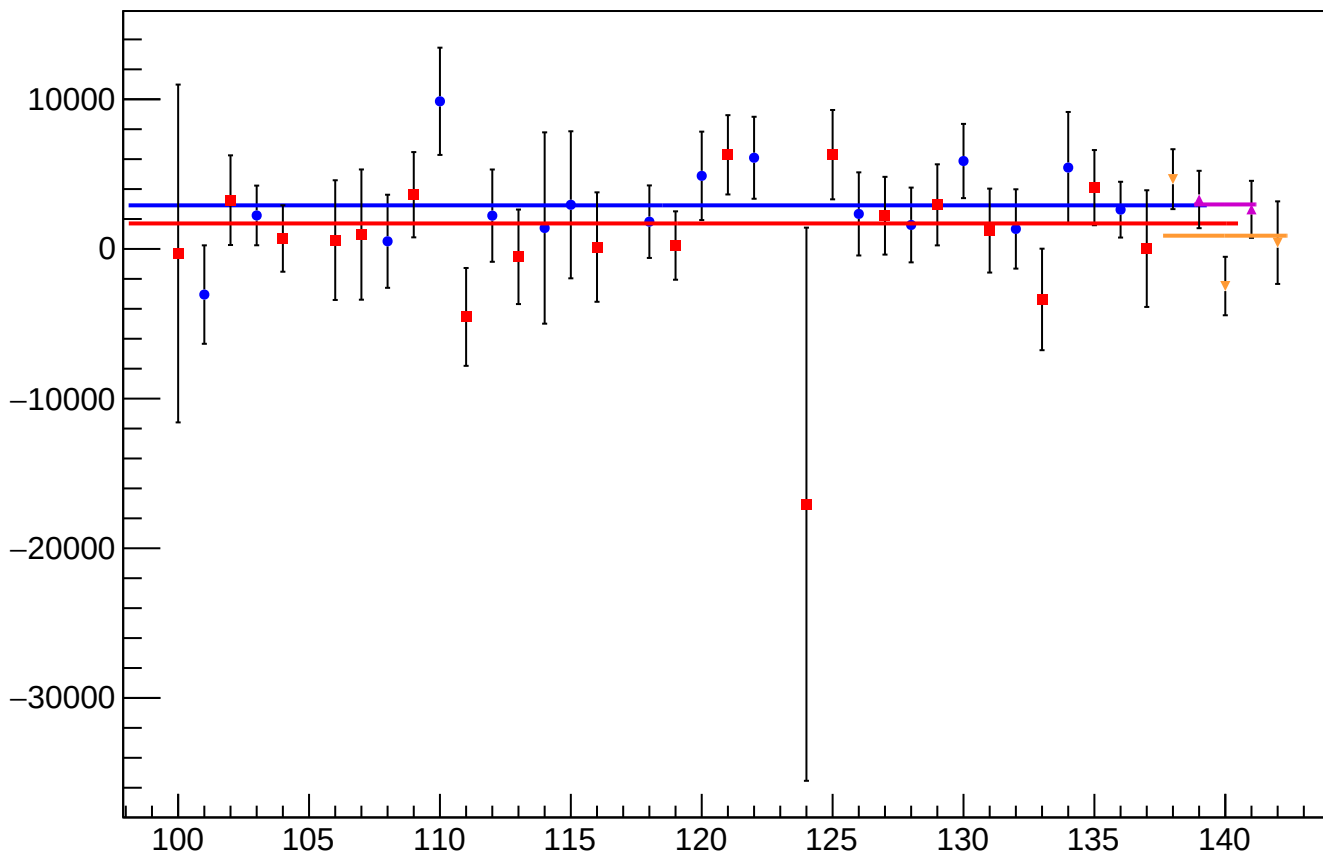
Right: 1854.387+/-0.478 χ^2/NDF : 13309116.0/34

In: 2055.050+/-0.658 χ^2/NDF : 8058540.7/17

Out: 2062.974+/-0.642 χ^2/NDF : 7779828.6/21

All: 2059.109+/-0.460 χ^2/NDF : 15838443.5/3

eigen_cor_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2913.091+/-695.062 χ^2/NDF : 12.4/15

Left Out: 885.502+/-1247.036 χ^2/NDF : 6.6/2

Right Out: 1703.523+/-706.847 χ^2/NDF : 15.8/18

Left In: 2972.863+/-1350.895 χ^2/NDF : 0.1/1

Left: 1845.868+/-916.308 χ^2/NDF : 7.9/4

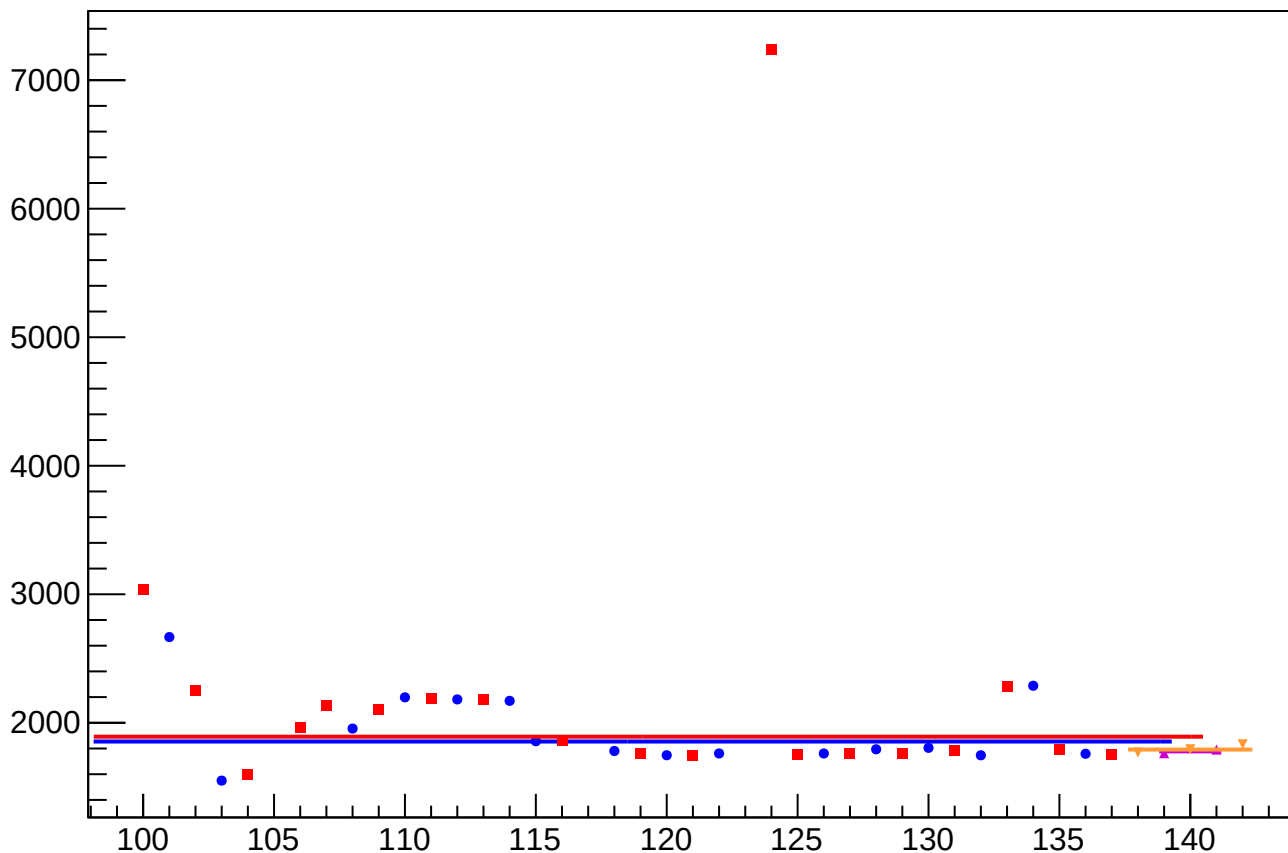
Right: 2318.475+/-495.597 χ^2/NDF : 29.8/34

In: 2925.602+/-618.051 χ^2/NDF : 12.5/17

Out: 1504.611+/-614.932 χ^2/NDF : 22.7/21

All: 2211.512+/-435.921 χ^2/NDF : 37.9/39

eigen_cor_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1854.314+/-0.491 χ^2/NDF : 263322.5/15

Left Out: 1791.802+/-0.882 χ^2/NDF : 717.6/2

Right Out: 1891.927+/-0.499 χ^2/NDF : 364292.2/18

Left In: 1777.562+/-0.955 χ^2/NDF : 217.4/1

Left: 1785.251+/-0.648 χ^2/NDF : 1055.0/4

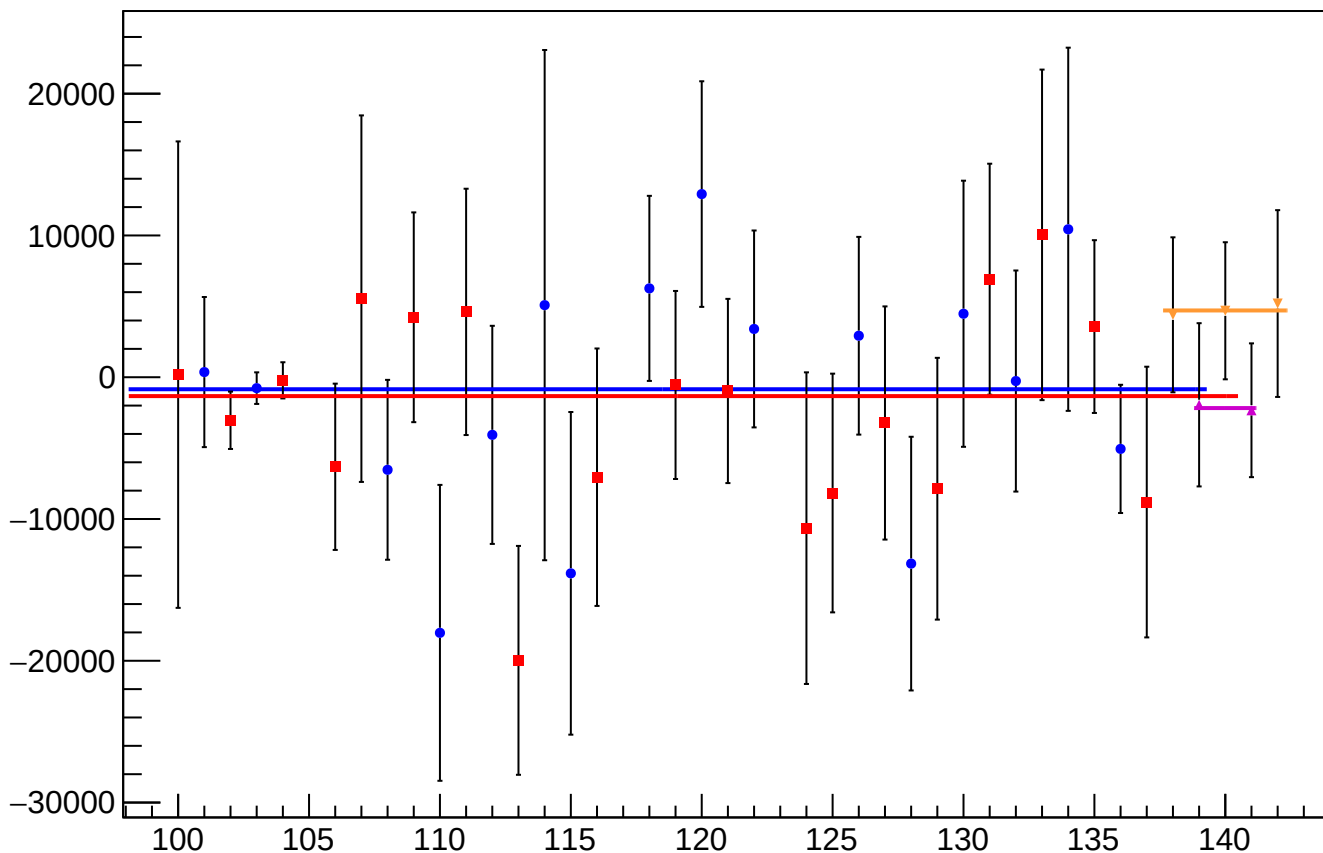
Right: 1872.844+/-0.350 χ^2/NDF : 630500.1/34

In: 1838.248+/-0.437 χ^2/NDF : 268644.5/17

Out: 1867.658+/-0.434 χ^2/NDF : 374777.6/21

All: 1853.051+/-0.308 χ^2/NDF : 645701.5/39

asym_atl1r2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -847.504+/-962.866 χ^2/NDF : 13.9/15

Left Out: 4709.499+/-3173.366 χ^2/NDF : 0.0/2

Right Out: -1331.371+/-948.163 χ^2/NDF : 14.4/18

Left In: -2175.352+/-3649.437 χ^2/NDF : 0.0/1

Left: 1745.147+/-2394.658 χ^2/NDF : 2.0/4

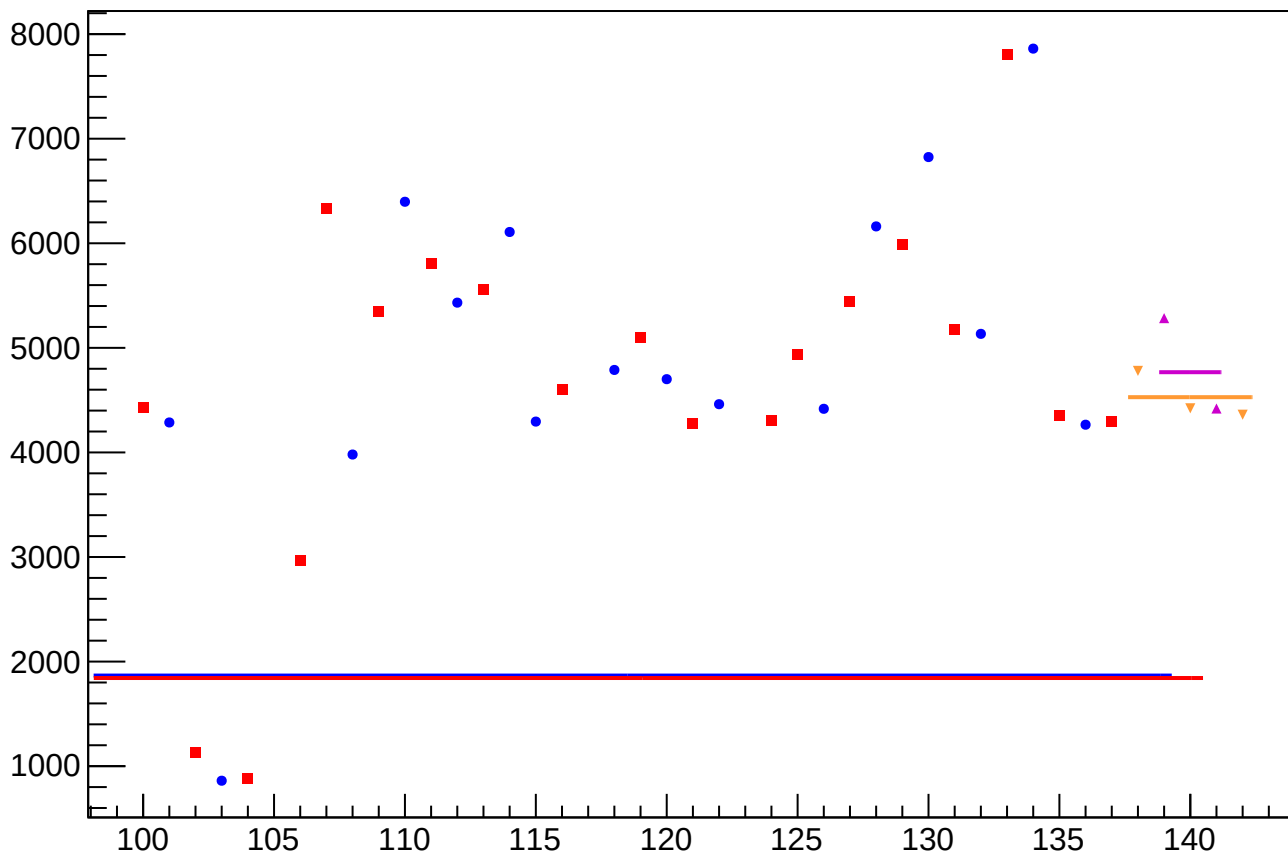
Right: -1093.160+/-675.591 χ^2/NDF : 28.4/34

In: -933.921+/-931.007 χ^2/NDF : 14.0/17

Out: -836.277+/-908.478 χ^2/NDF : 17.8/21

All: -883.903+/-650.210 χ^2/NDF : 31.8/39

asym_atl1r2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1866.251+/-0.681 χ^2/NDF : 6850061.4/15

Left Out: 4528.327+/-2.244 χ^2/NDF : 6495.4/2

Right Out: 1842.882+/-0.670 χ^2/NDF : 6458456.4/18

Left In: 4767.225+/-2.581 χ^2/NDF : 26963.2/1

Left: 4631.187+/-1.693 χ^2/NDF : 38338.9/4

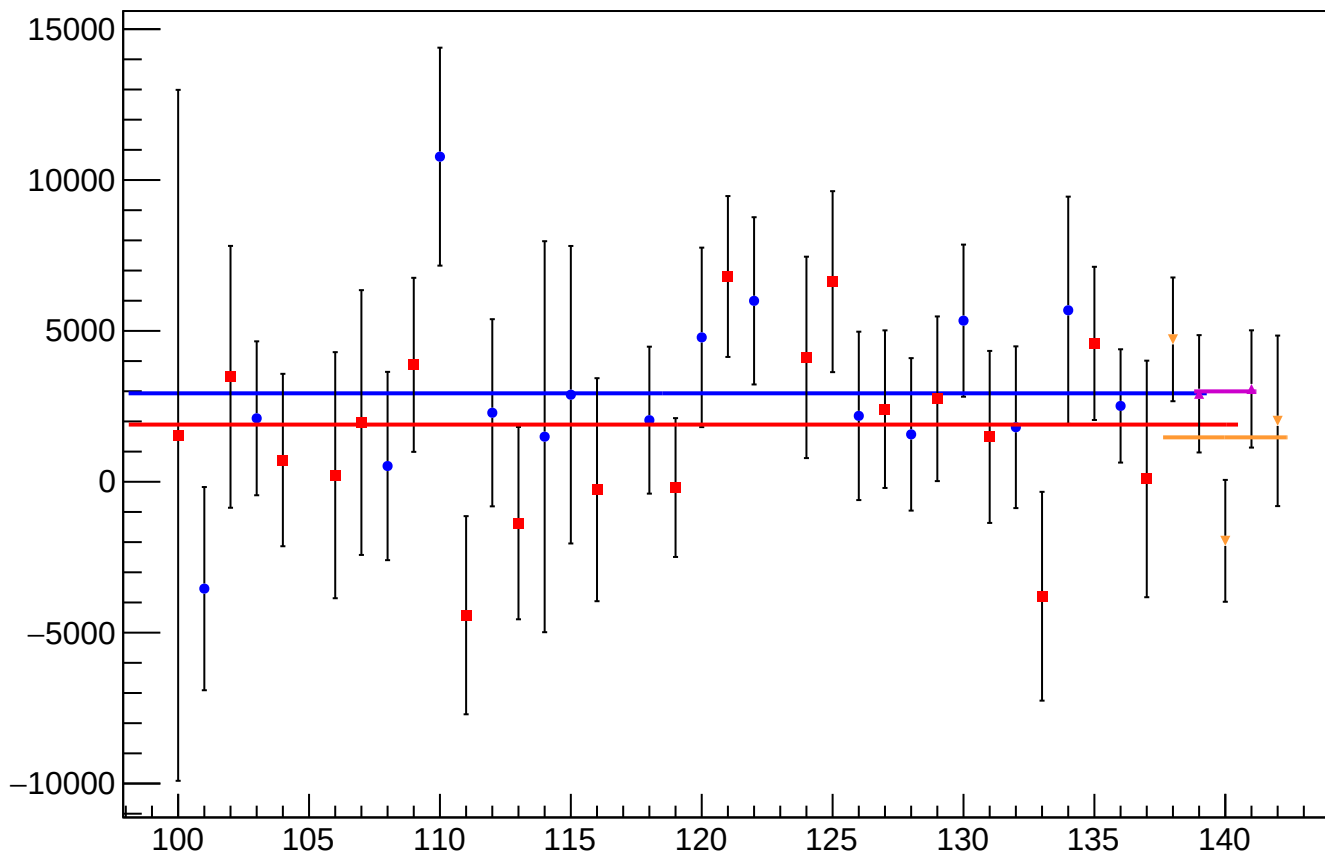
Right: 1854.387+/-0.478 χ^2/NDF : 13309116.0/34

In: 2055.050+/-0.658 χ^2/NDF : 8058540.7/17

Out: 2062.974+/-0.642 χ^2/NDF : 7779828.6/21

All: 2059.109+/-0.460 χ^2/NDF : 15838443.5/3

dit_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2931.691+/-718.305 χ^2/NDF : 13.0/15

Left Out: 1472.226+/-1282.105 χ^2/NDF : 5.4/2

Right Out: 1895.503+/-721.954 χ^2/NDF : 17.4/18

Left In: 2996.164+/-1374.327 χ^2/NDF : 0.0/1

Left: 2181.353+/-937.494 χ^2/NDF : 6.1/4

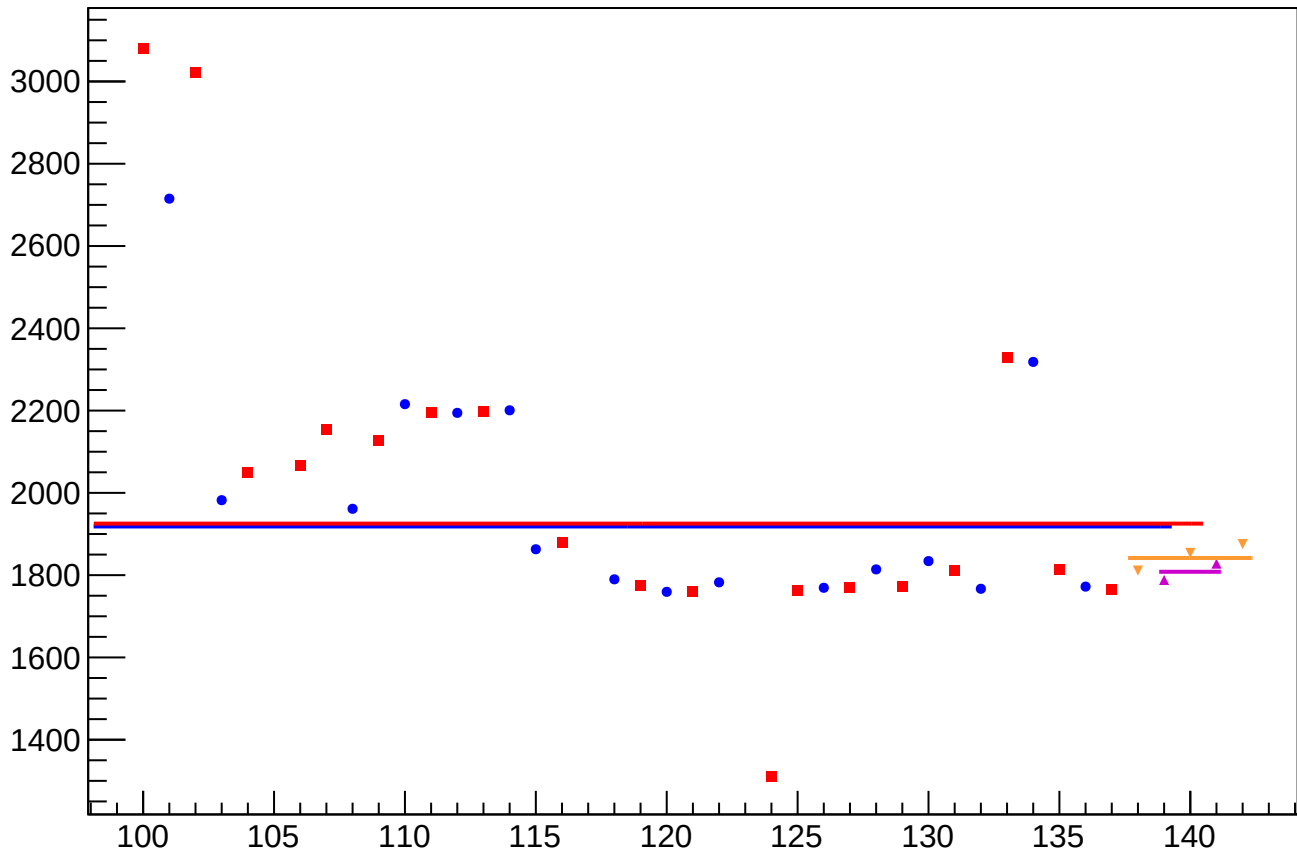
Right: 2416.221+/-509.204 χ^2/NDF : 31.4/34

In: 2945.524+/-636.598 χ^2/NDF : 13.0/17

Out: 1793.600+/-629.076 χ^2/NDF : 22.9/21

All: 2362.716+/-447.460 χ^2/NDF : 37.5/39

dit_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1918.367+/-0.508 χ^2/NDF : 215592.7/15

Left Out: 1841.764+/-0.907 χ^2/NDF : 807.7/2

Right Out: 1925.260+/-0.510 χ^2/NDF : 339095.4/18

Left In: 1808.215+/-0.972 χ^2/NDF : 416.3/1

Left: 1826.153+/-0.663 χ^2/NDF : 1861.3/4

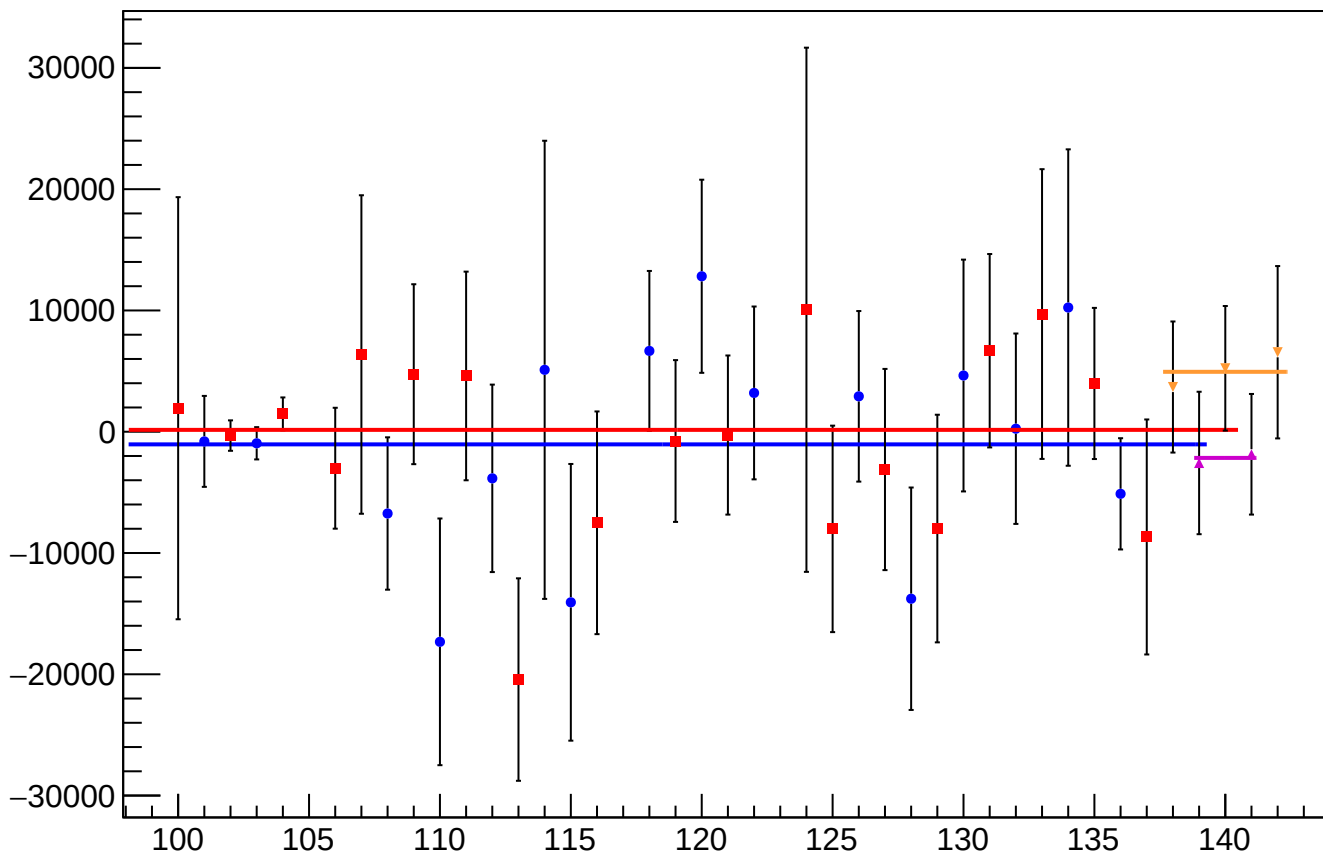
Right: 1921.799+/-0.360 χ^2/NDF : 554779.7/34

In: 1894.733+/-0.450 χ^2/NDF : 226100.3/17

Out: 1905.184+/-0.445 χ^2/NDF : 346345.8/21

All: 1900.024+/-0.316 χ^2/NDF : 572719.0/39

asym_atl1r2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1041.908+/-1072.406 χ^2/NDF : 13.8/15

Left Out: 4941.013+/-3297.789 χ^2/NDF : 0.1/2

Right Out: 153.619+/-835.656 χ^2/NDF : 13.7/18

Left In: -2157.871+/-3795.312 χ^2/NDF : 0.0/1

Left: 1887.061+/-2489.336 χ^2/NDF : 2.1/4

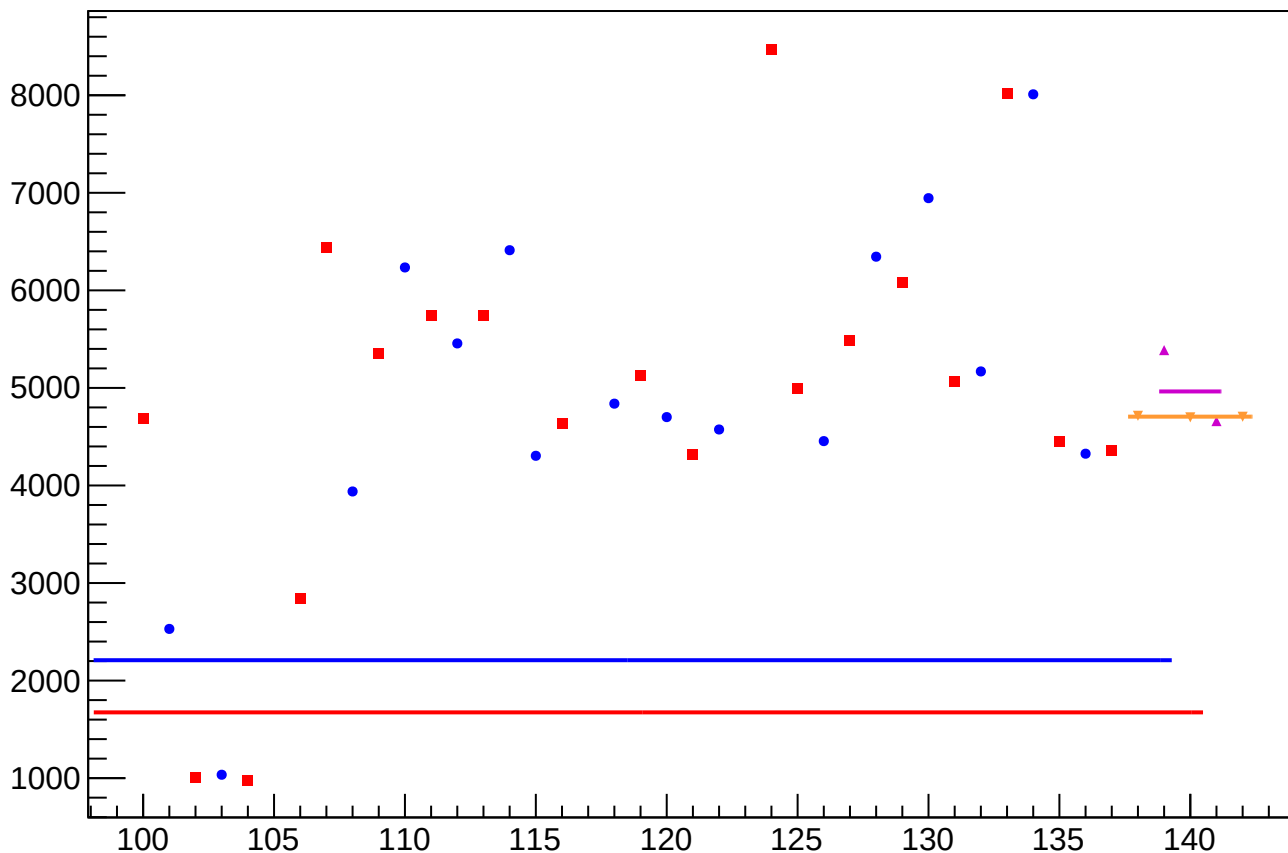
Right: -298.053+/-659.161 χ^2/NDF : 28.3/34

In: -1124.419+/-1031.999 χ^2/NDF : 13.9/17

Out: 442.475+/-810.053 χ^2/NDF : 15.8/21

All: -154.881+/-637.201 χ^2/NDF : 31.2/39

asym_atl1r2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 2208.912 +/- 0.758 χ^2/NDF : 5499011.4/15

Left Out: 4705.510 +/- 2.332 χ^2/NDF : 9.2/2

Right Out: 1674.162 +/- 0.591 χ^2/NDF : 6853212.9/18

Left In: 4963.769 +/- 2.684 χ^2/NDF : 17880.6/1

Left: 4816.614 +/- 1.760 χ^2/NDF : 23166.6/4

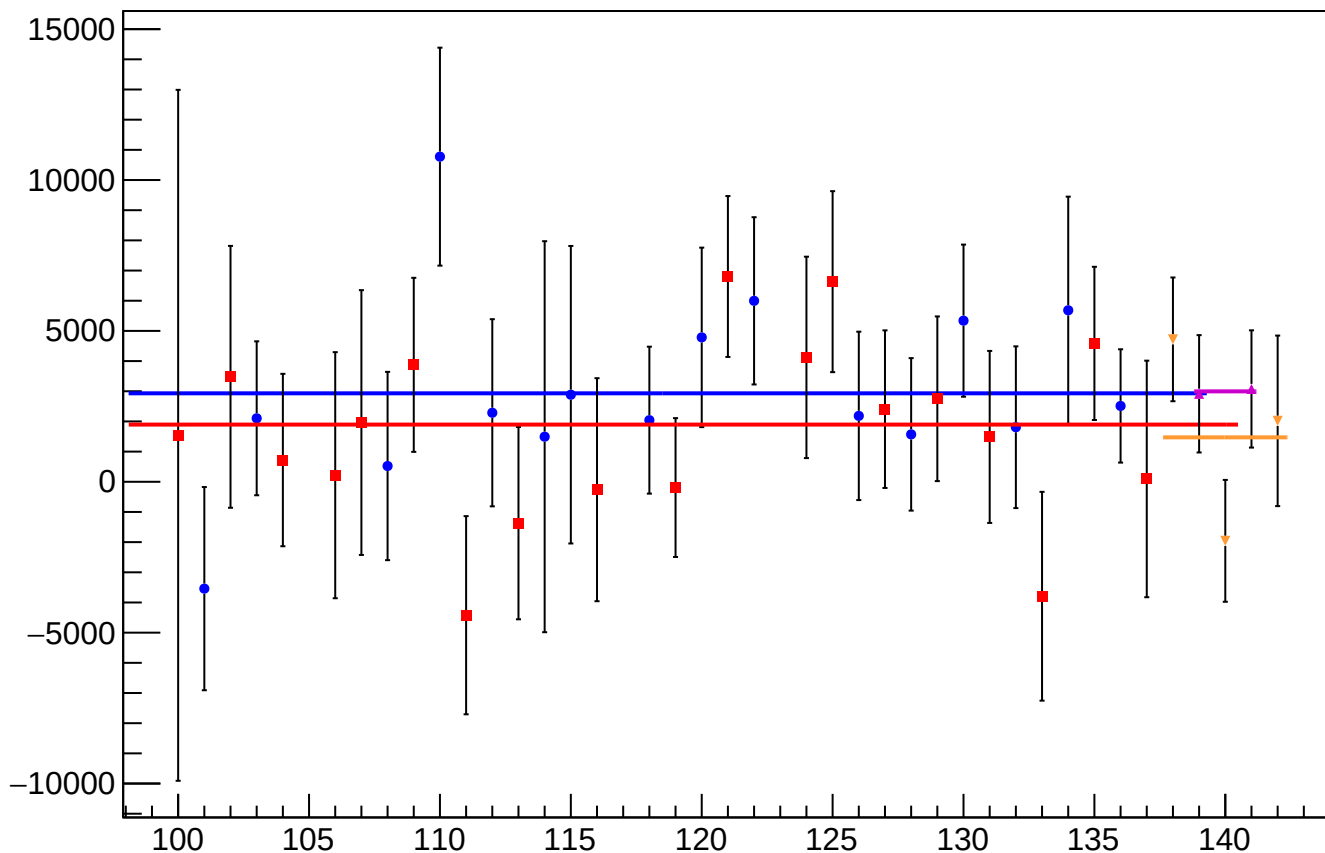
Right: 1876.192 +/- 0.466 χ^2/NDF : 12661639.3/34

In: 2412.599 +/- 0.730 χ^2/NDF : 6492720.8/17

Out: 1857.063 +/- 0.573 χ^2/NDF : 8441140.8/21

All: 2068.853 +/- 0.451 χ^2/NDF : 15292469.7/3

eigen_dit_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2931.693+/-718.305 χ^2/NDF : 13.0/15

Left Out: 1472.233+/-1282.105 χ^2/NDF : 5.4/2

Right Out: 1895.508+/-721.953 χ^2/NDF : 17.4/18

Left In: 2996.144+/-1374.327 χ^2/NDF : 0.0/1

Left: 2181.347+/-937.494 χ^2/NDF : 6.1/4

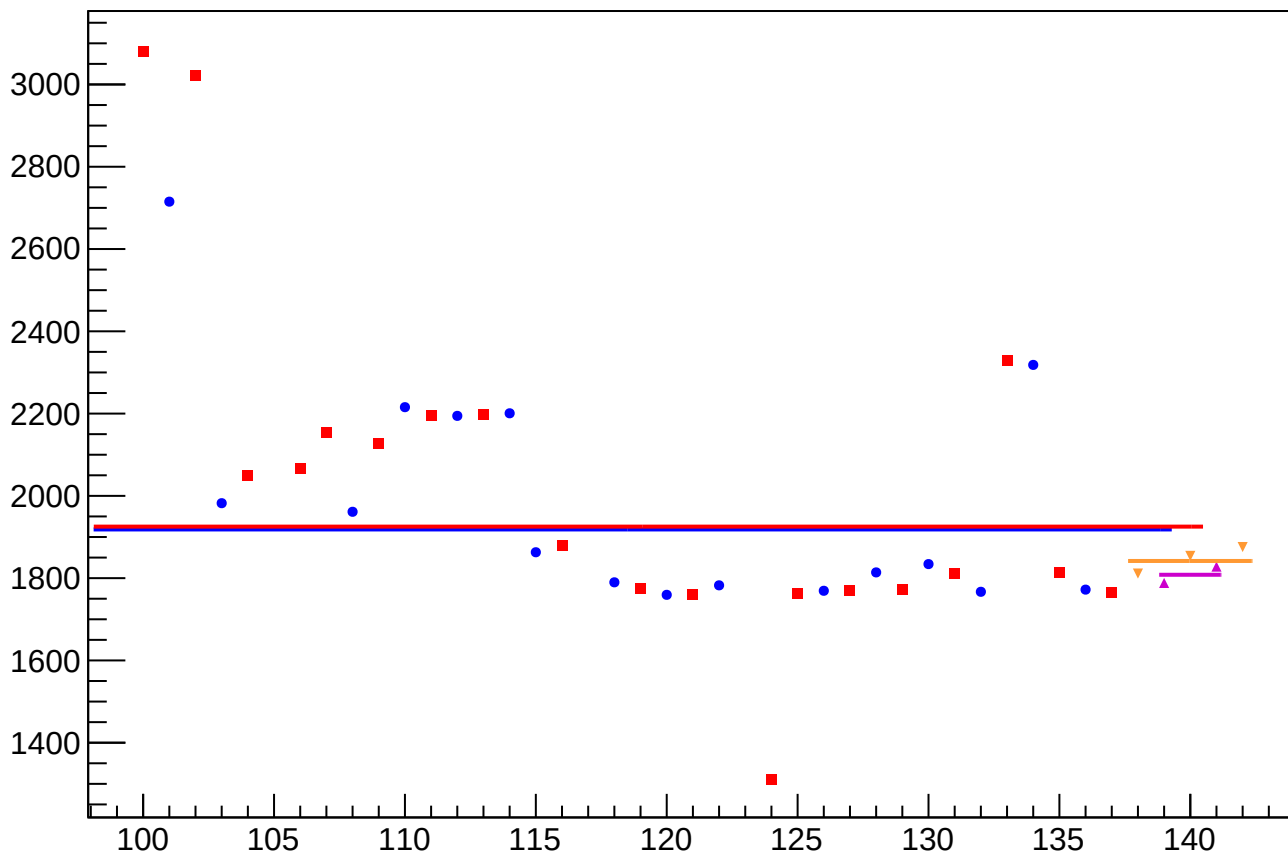
Right: 2416.225+/-509.203 χ^2/NDF : 31.4/34

In: 2945.521+/-636.598 χ^2/NDF : 13.0/17

Out: 1793.606+/-629.076 χ^2/NDF : 22.9/21

All: 2362.718+/-447.459 χ^2/NDF : 37.5/39

eigen_dit_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1918.367 $\pm$ 0.508 χ^2 /NDF: 215592.7/15

Left Out: 1841.764 $\pm$ 0.907 χ^2 /NDF:807.7/2

Right Out: 1925.259 $\pm$ 0.510 χ^2 /NDF: 339094.4/18

Left In: 1808.216 $\pm$ 0.972 χ^2 /NDF:416.3/1

Left: 1826.153 $\pm$ 0.663 χ^2 /NDF: 1861.2/4

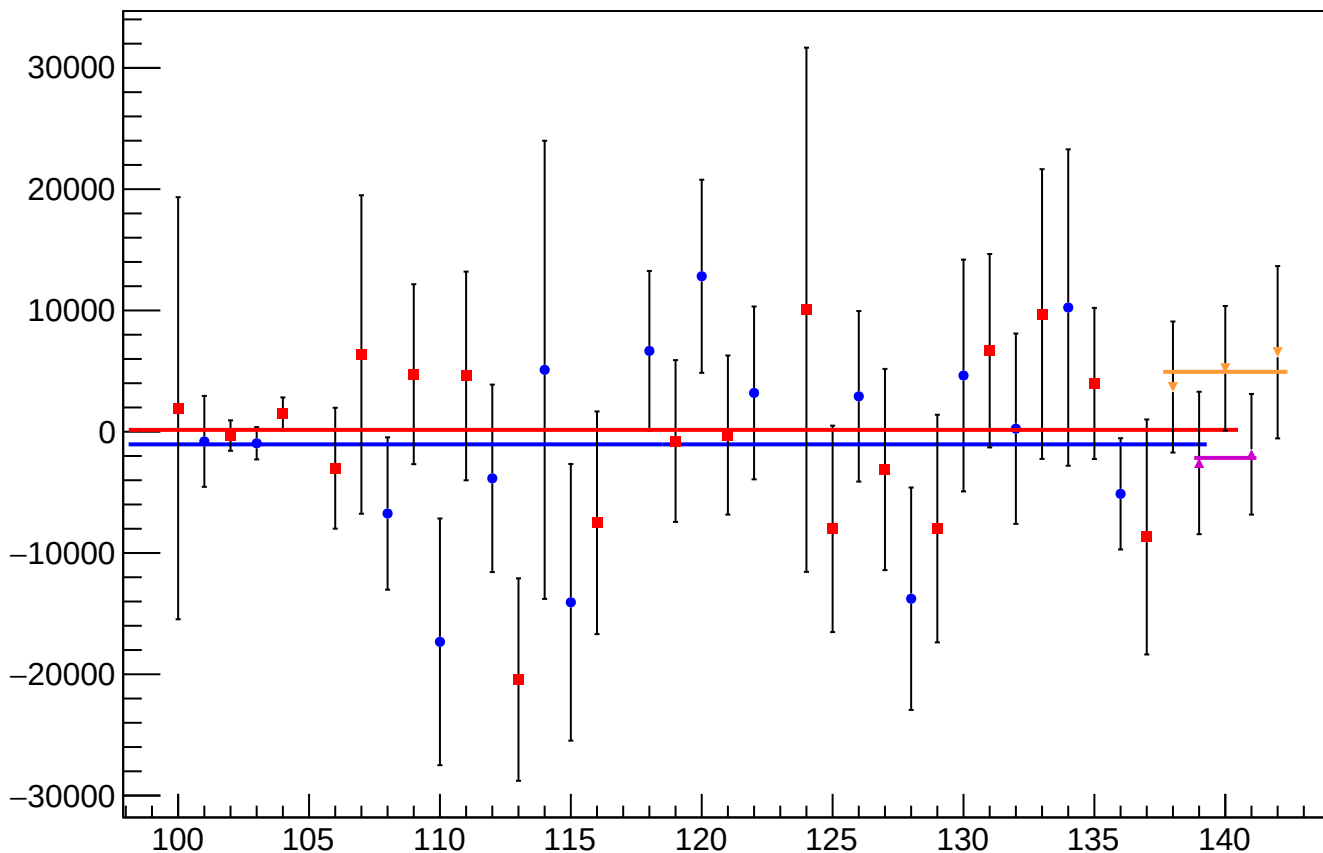
Right: 1921.798 $\pm$ 0.360 χ^2 /NDF: 554778.8/34

In: 1894.733 $\pm$ 0.450 χ^2 /NDF:226100.2/17

Out: 1905.183 $\pm$ 0.445 χ^2 /NDF:346344.6/21

All: 1900.023 $\pm$ 0.316 χ^2 /NDF: 572717.7/39

asym_atl1r2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1041.906 $\pm$ 1072.405 χ^2 /NDF: 13.8/15

Left Out: 4941.024 $\pm$ 3297.791 χ^2 /NDF:0.1/2

Right Out: 153.614 $\pm$ 835.655 χ^2 /NDF: 13.7/18

Left In: -2157.892 $\pm$ 3795.315 χ^2 /NDF:0.0/1

Left: 1887.059 $\pm$ 2489.338 χ^2 /NDF: 2.1/4

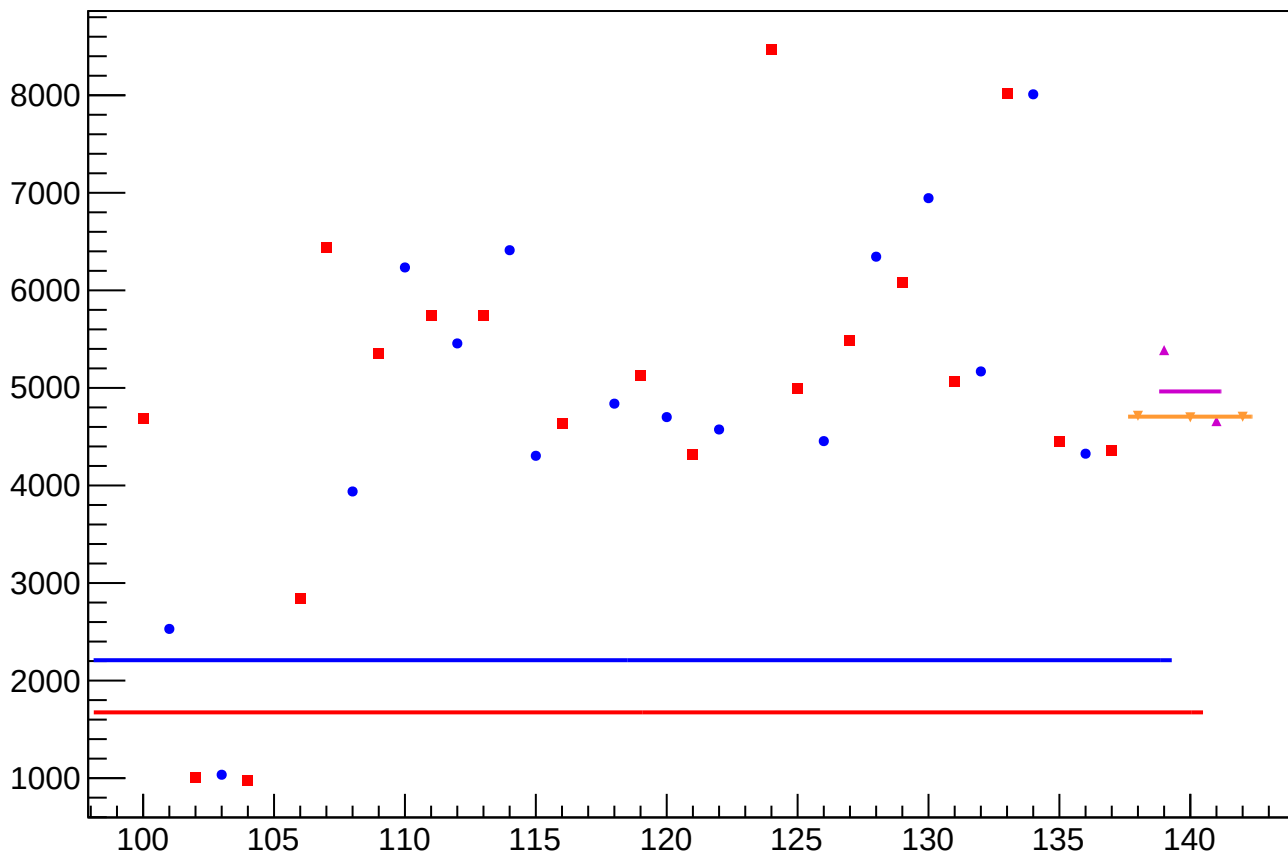
Right: -298.056 $\pm$ 659.161 χ^2 /NDF: 28.3/34

In: -1124.418 $\pm$ 1031.999 χ^2 /NDF:13.9/17

Out: 442.470 $\pm$ 810.053 χ^2 /NDF:15.8/21

All: -154.884 $\pm$ 637.200 χ^2 /NDF: 31.2/39

asym_atl1r2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2208.911+/-0.758 χ^2/NDF : 5499004.2/15

Left Out: 4705.514+/-2.332 χ^2/NDF : 9.2/2

Right Out: 1674.162+/-0.591 χ^2/NDF : 6853204.8/18

Left In: 4963.773+/-2.684 χ^2/NDF : 17881.1/1

Left: 4816.617+/-1.760 χ^2/NDF : 23167.1/4

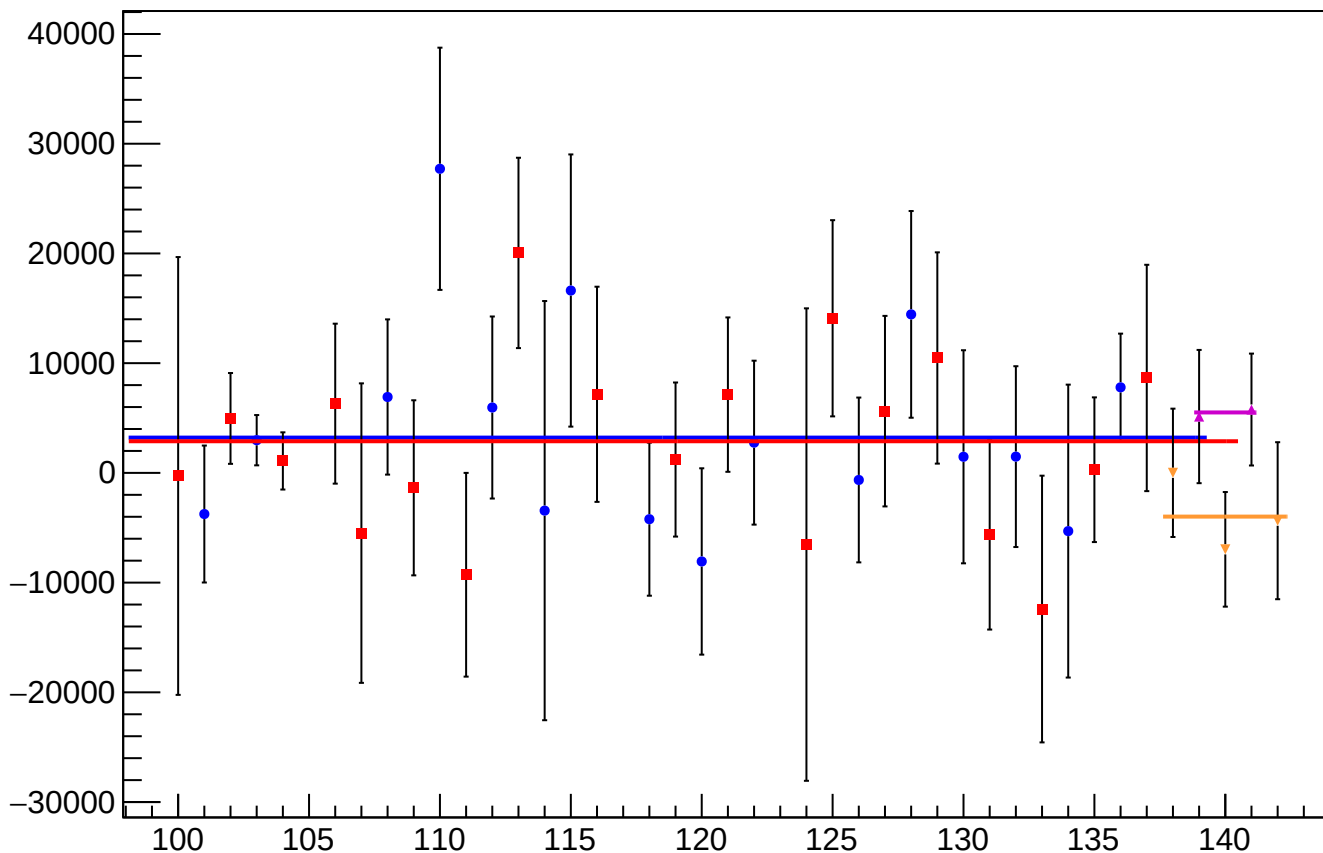
Right: 1876.191+/-0.466 χ^2/NDF : 12661624.0/34

In: 2412.598+/-0.730 χ^2/NDF : 6492716.0/17

Out: 1857.063+/-0.573 χ^2/NDF : 8441134.5/21

All: 2068.853+/-0.451 χ^2/NDF : 15292458.3/3

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 3215.695+/-1539.262 χ^2/NDF : 13.8/15

Left Out: -3984.025+/-3421.353 χ^2/NDF : 0.8/2

Right Out: 2883.411+/-1552.120 χ^2/NDF : 13.4/18

Left In: 5508.728+/-3904.735 χ^2/NDF : 0.0/1

Left: 138.726+/-2573.292 χ^2/NDF : 4.1/4

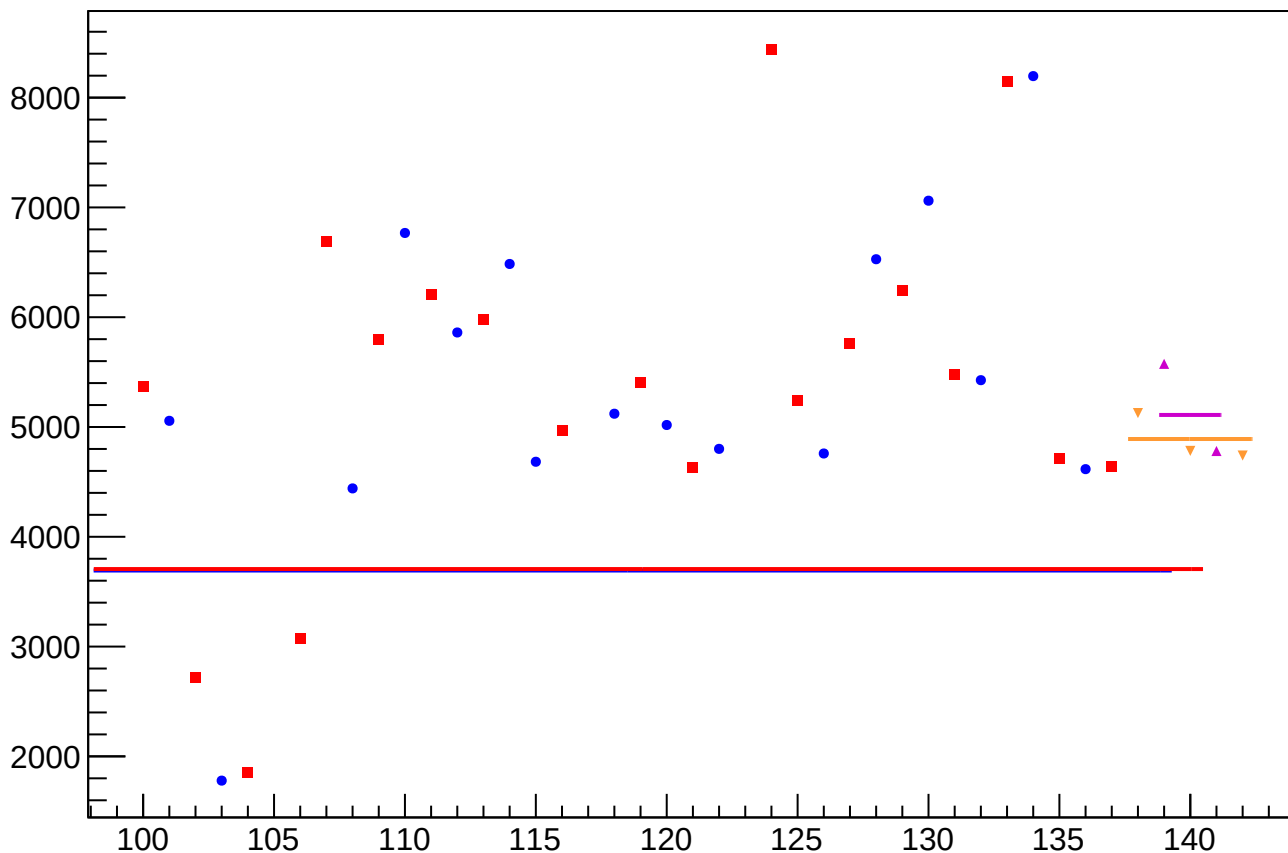
Right: 3050.935+/-1092.940 χ^2/NDF : 27.2/34

In: 3524.099+/-1432.013 χ^2/NDF : 14.1/17

Out: 1711.290+/-1413.471 χ^2/NDF : 17.5/21

All: 2605.882+/-1005.966 χ^2/NDF : 32.5/39

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 3692.815+/-1.088 χ^2/NDF : 2885658.0/15

Left Out: 4890.630+/-2.419 χ^2/NDF : 5009.2/2

Right Out: 3706.081+/-1.087 χ^2/NDF : 2684528.0/18

Left In: 5109.757+/-2.761 χ^2/NDF : 20051.1/1

Left: 4985.798+/-1.820 χ^2/NDF : 28623.4/4

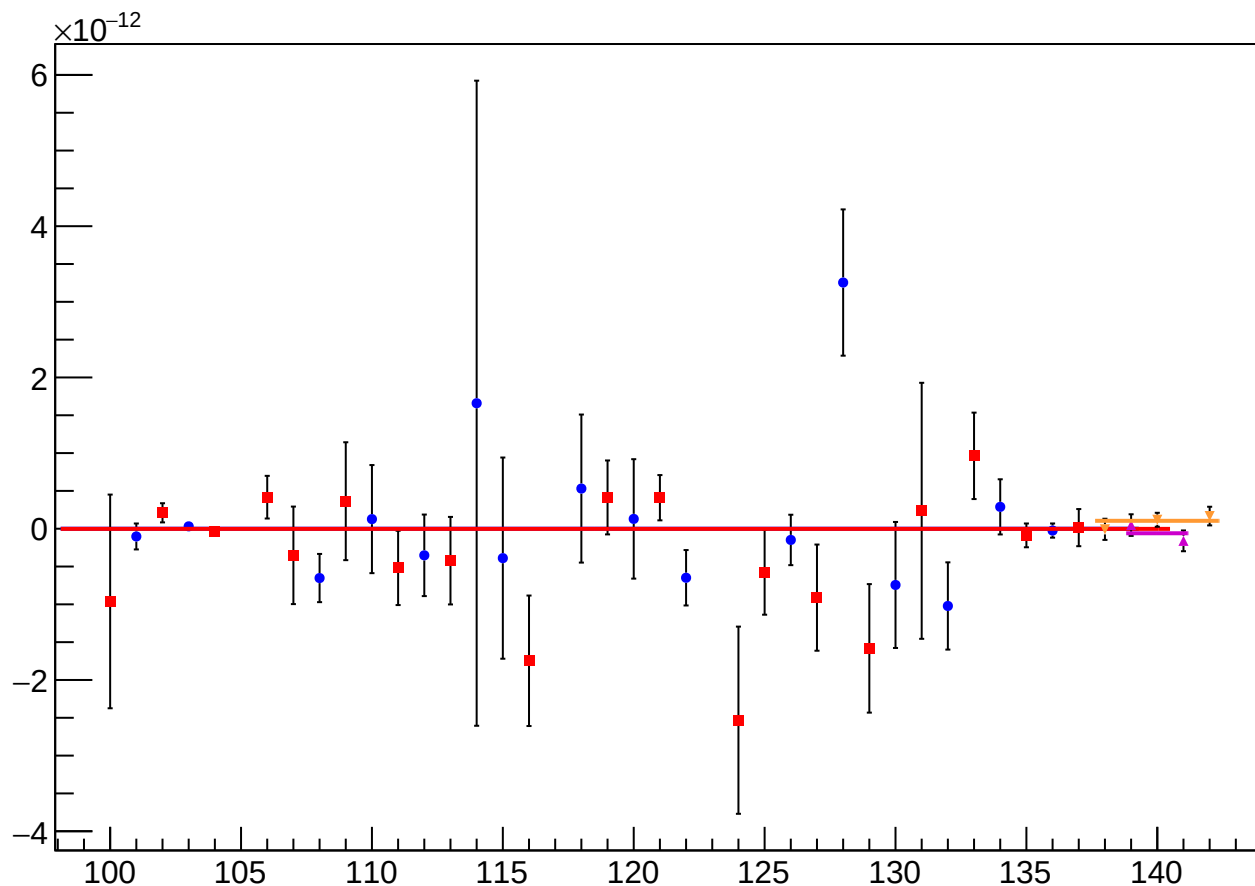
Right: 3699.460+/-0.769 χ^2/NDF : 5570260.4/34

In: 3883.389+/-1.013 χ^2/NDF : 3133648.7/17

Out: 3904.916+/-0.991 χ^2/NDF : 2889035.0/21

All: 3894.382+/-0.708 χ^2/NDF : 6022914.5/39

asym_atl1r2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 25.4/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.9/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 28.2/18

Left In: -0.000 ± 0.000 χ^2/NDF : 1.1/1

Left: 0.000 ± 0.000 χ^2/NDF : 4.0/4

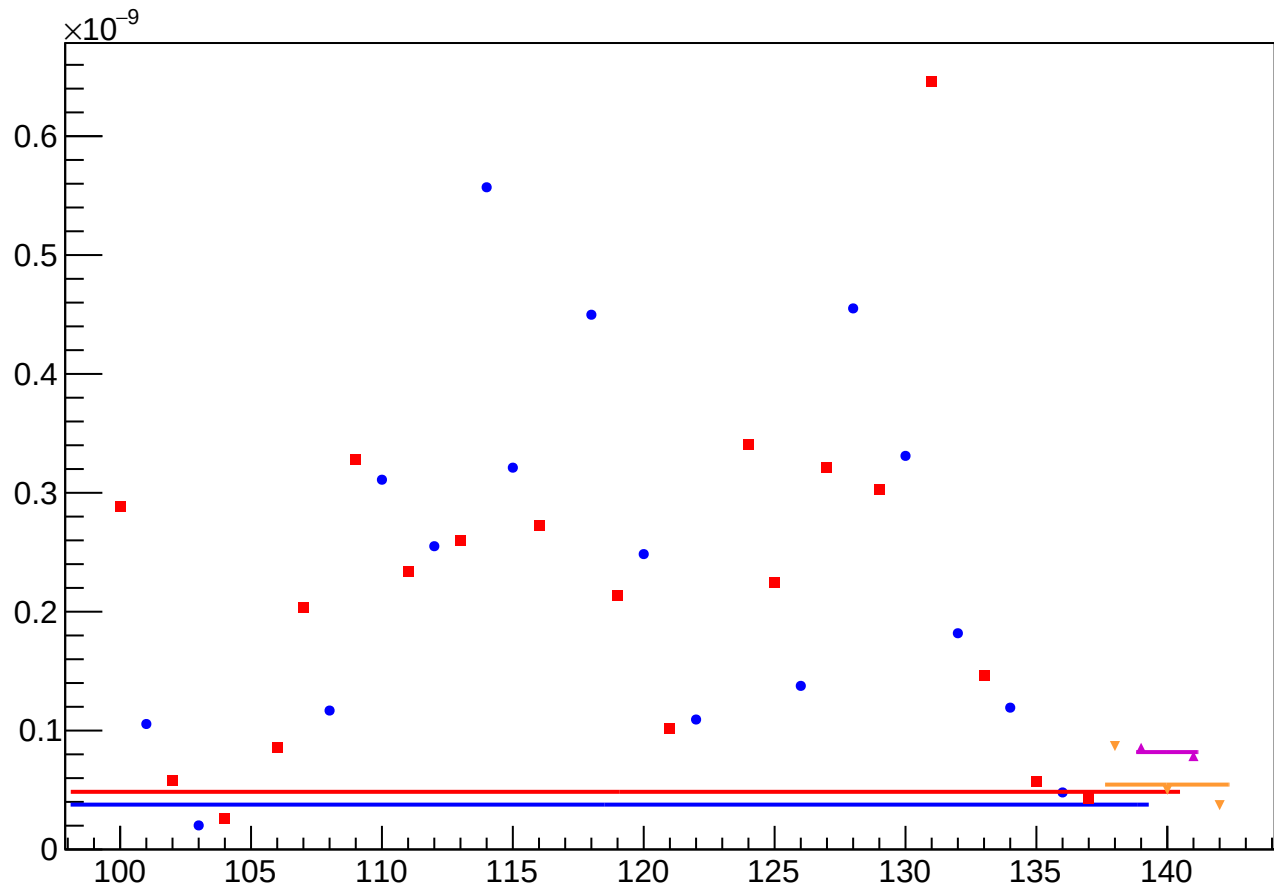
Right: -0.000 ± 0.000 χ^2/NDF : 53.6/34

In: -0.000 ± 0.000 χ^2/NDF : 26.8/17

Out: 0.000 ± 0.000 χ^2/NDF : 30.9/21

All: 0.000 ± 0.000 χ^2/NDF : 58.4/39

asym_atl1r2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3140697.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 151159.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2895431.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 2465.7/1

Left: 0.000+/-0.000 χ^2/NDF : 259841.9/4

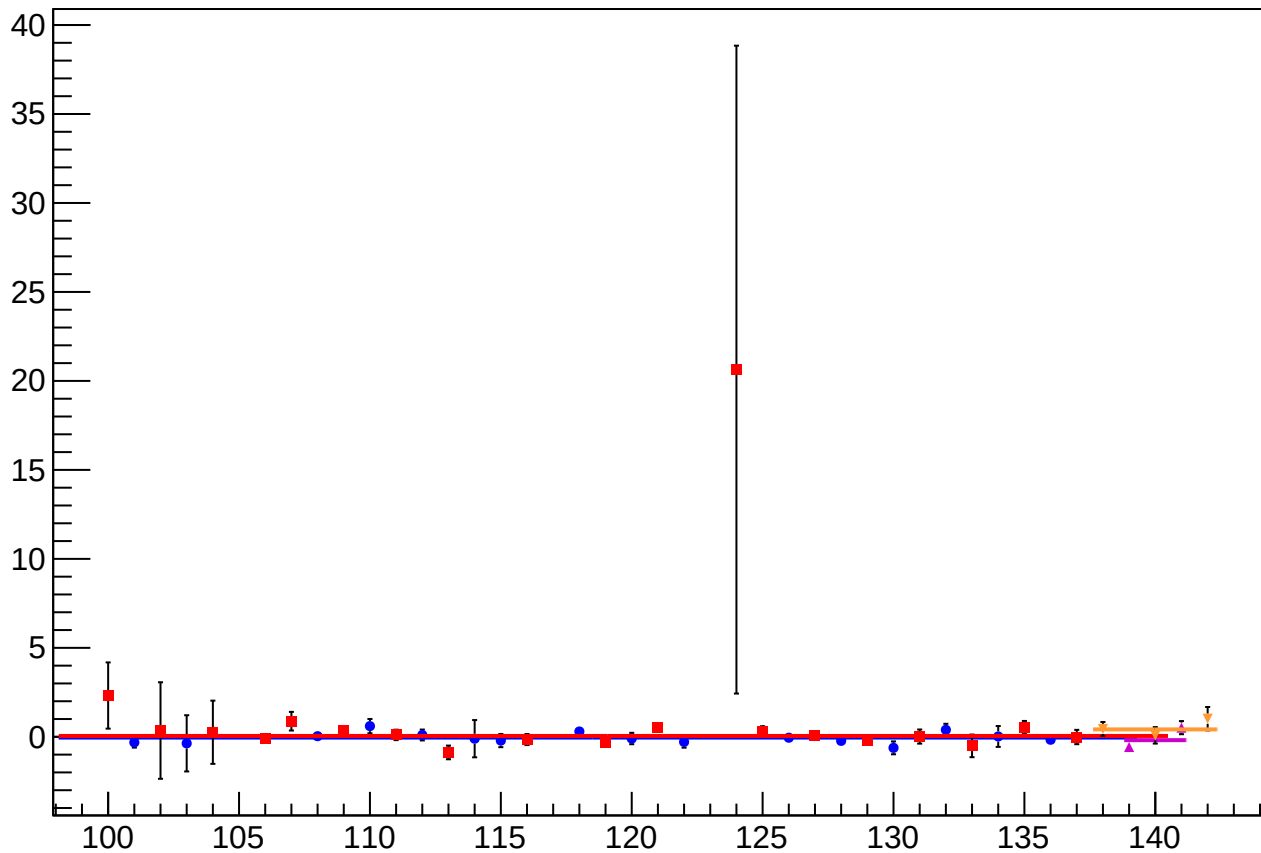
Right: 0.000+/-0.000 χ^2/NDF : 6105820.7/34

In: 0.000+/-0.000 χ^2/NDF : 3494044.9/17

Out: 0.000+/-0.000 χ^2/NDF : 3058352.4/21

All: 0.000+/-0.000 χ^2/NDF : 6596685.0/39

asym_atl1r2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.041 ± 0.078 χ^2/NDF : 11.7/15

Left Out: 0.417 ± 0.272 χ^2/NDF : 1.4/2

Right Out: 0.049 ± 0.079 χ^2/NDF : 23.0/18

Left In: -0.187 ± 0.219 χ^2/NDF : 5.6/1

Left: 0.050 ± 0.171 χ^2/NDF : 10.0/4

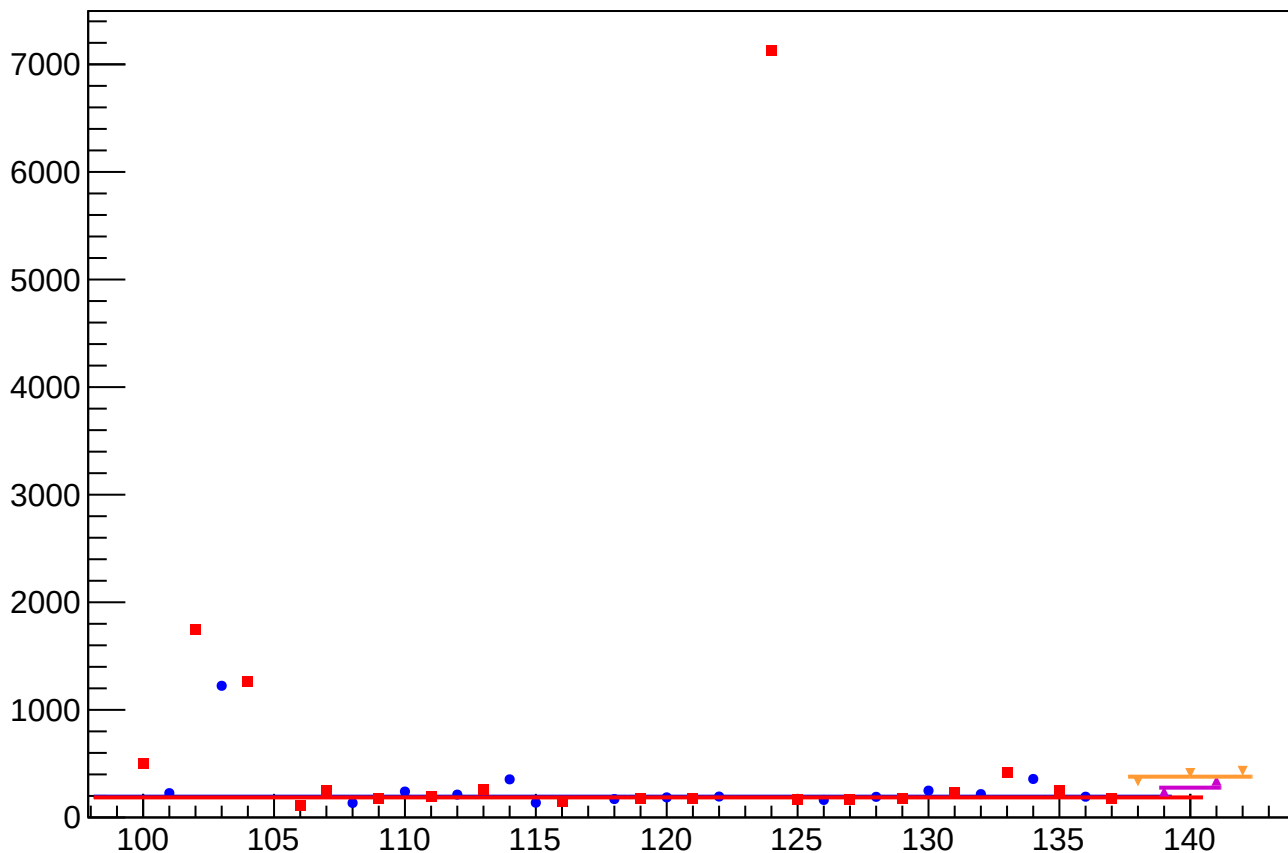
Right: 0.004 ± 0.055 χ^2/NDF : 35.4/34

In: -0.057 ± 0.073 χ^2/NDF : 17.7/17

Out: 0.078 ± 0.076 χ^2/NDF : 26.0/21

All: 0.008 ± 0.053 χ^2/NDF : 45.4/39

asym_atl1r2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 193.248+/-0.055 χ^2/NDF : 1408397.0/15

Left Out: 379.026+/-0.193 χ^2/NDF : 48472.2/2

Right Out: 186.379+/-0.056 χ^2/NDF : 2479083.9/18

Left In: 276.967+/-0.155 χ^2/NDF : 97914.6/1

Left: 317.044+/-0.121 χ^2/NDF : 317051.6/4

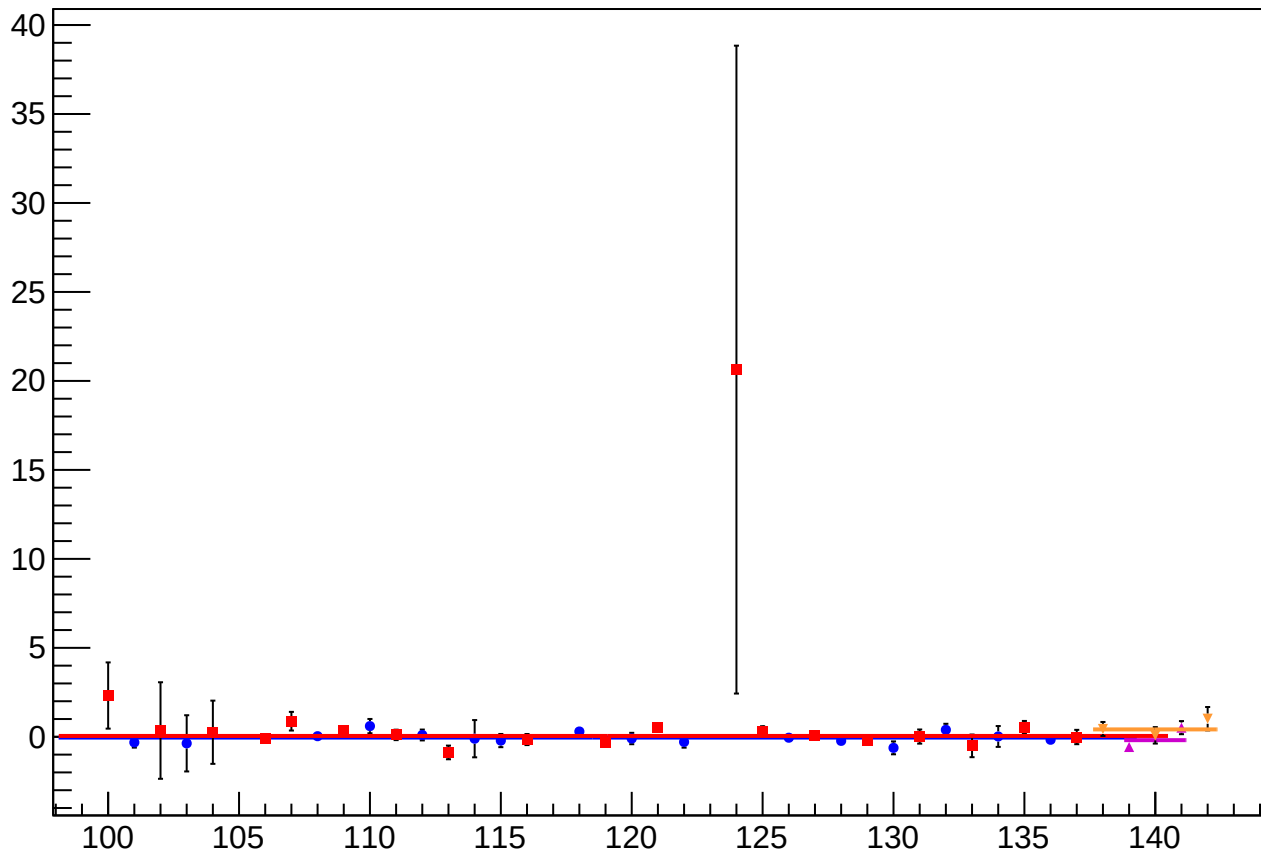
Right: 189.859+/-0.039 χ^2/NDF : 3895183.9/34

In: 202.625+/-0.052 χ^2/NDF : 1766004.2/17

Out: 201.265+/-0.054 χ^2/NDF : 3451474.0/21

All: 201.967+/-0.037 χ^2/NDF : 5217811.6/39

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.041 ± 0.078 χ^2/NDF : 11.7/15

Left Out: 0.417 ± 0.272 χ^2/NDF : 1.4/2

Right Out: 0.049 ± 0.079 χ^2/NDF : 23.0/18

Left In: -0.187 ± 0.219 χ^2/NDF : 5.6/1

Left: 0.050 ± 0.171 χ^2/NDF : 10.0/4

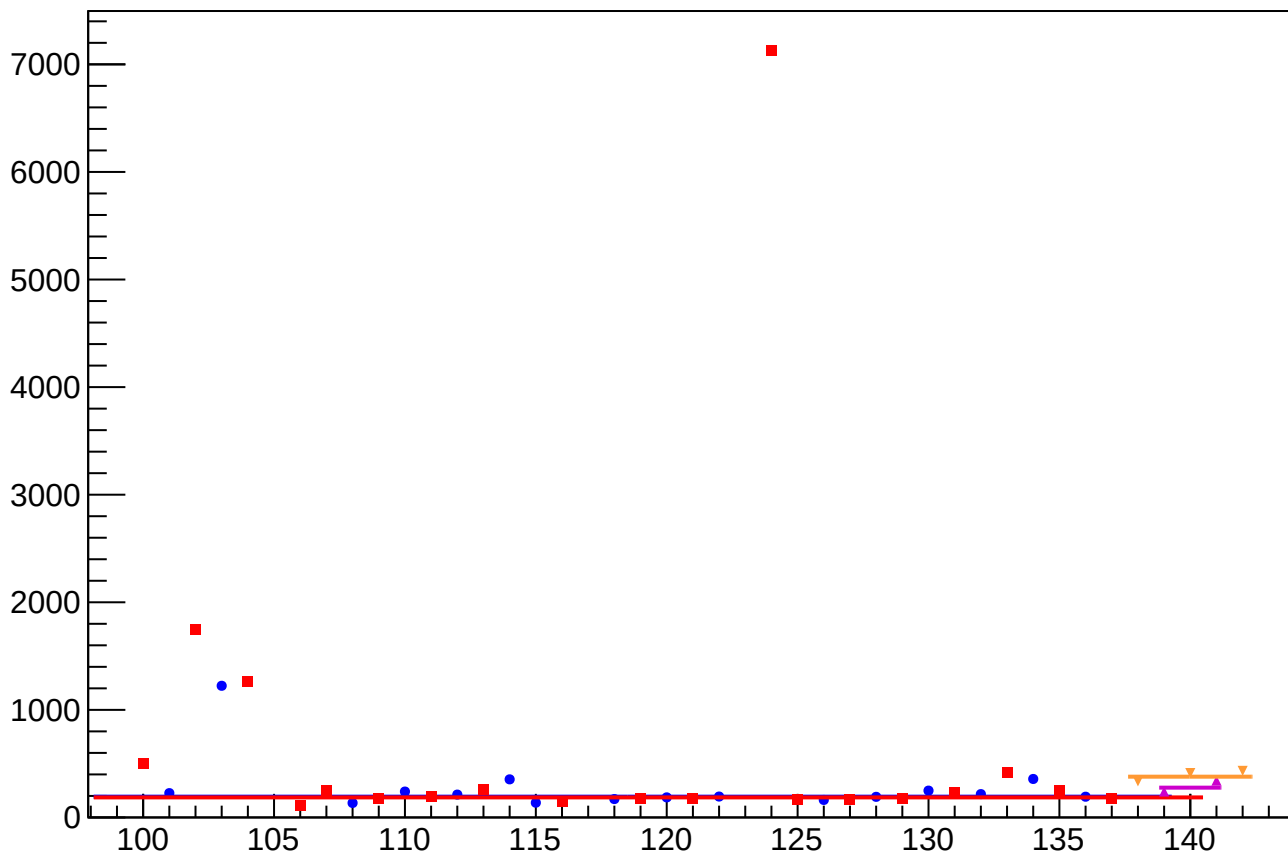
Right: 0.004 ± 0.055 χ^2/NDF : 35.4/34

In: -0.057 ± 0.073 χ^2/NDF : 17.7/17

Out: 0.078 ± 0.076 χ^2/NDF : 26.0/21

All: 0.008 ± 0.053 χ^2/NDF : 45.4/39

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 193.248+/-0.055 χ^2/NDF : 1408397.0/15

Left Out: 379.026+/-0.193 χ^2/NDF : 48472.2/2

Right Out: 186.379+/-0.056 χ^2/NDF : 2479083.9/18

Left In: 276.967+/-0.155 χ^2/NDF : 97914.6/1

Left: 317.044+/-0.121 χ^2/NDF : 317051.6/4

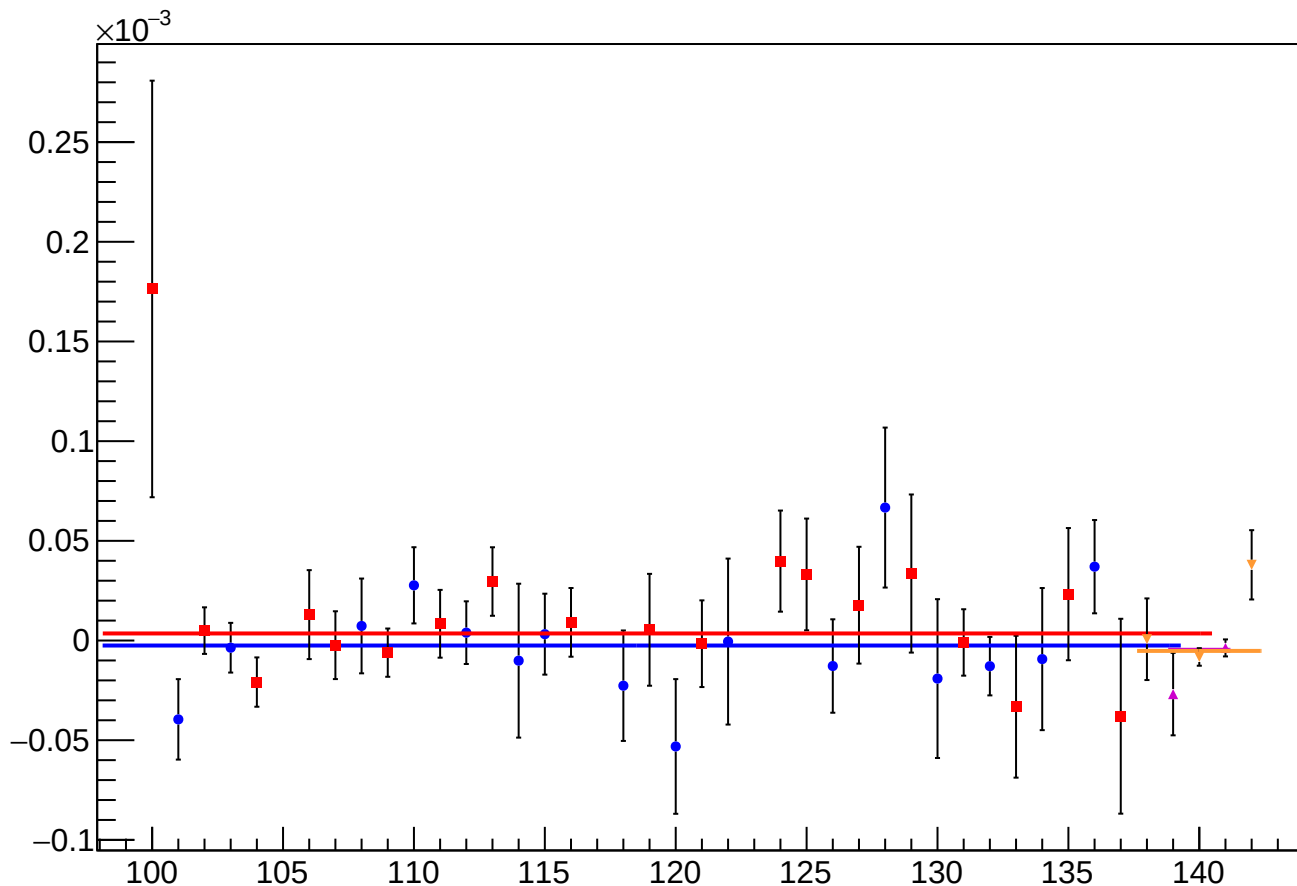
Right: 189.859+/-0.039 χ^2/NDF : 3895183.9/34

In: 202.625+/-0.052 χ^2/NDF : 1766004.2/17

Out: 201.265+/-0.054 χ^2/NDF : 3451474.0/21

All: 201.967+/-0.037 χ^2/NDF : 5217811.6/39

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 15.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 6.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 16.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 1.2/1

Left: -0.000+/-0.000 χ^2/NDF : 7.9/4

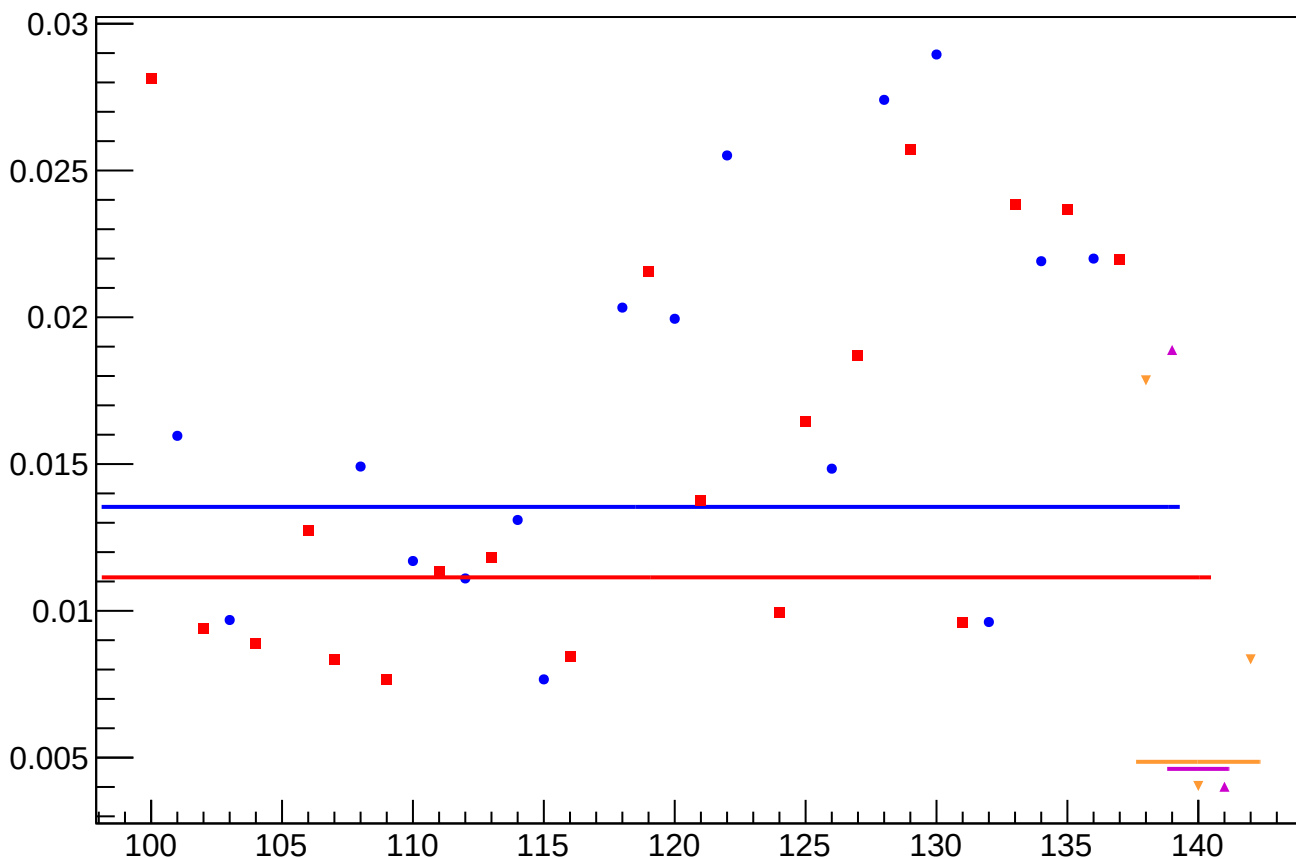
Right: 0.000+/-0.000 χ^2/NDF : 32.9/34

In: -0.000+/-0.000 χ^2/NDF : 17.1/17

Out: -0.000+/-0.000 χ^2/NDF : 25.1/21

All: -0.000+/-0.000 χ^2/NDF : 42.6/39

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000

χ^2/NDF : 1877615.1/15

Left Out: 0.005+/-0.000

χ^2/NDF : 956444.0/2

Right Out: 0.011+/-0.000

χ^2/NDF : 1887740.8/18

Left In: 0.005+/-0.000

χ^2/NDF : 992797.1/1

Left: 0.005+/-0.000

χ^2/NDF : 1952567.0/4

Right: 0.012+/-0.000

χ^2/NDF : 3997435.7/34

In: 0.008+/-0.000

χ^2/NDF : 6246162.9/17

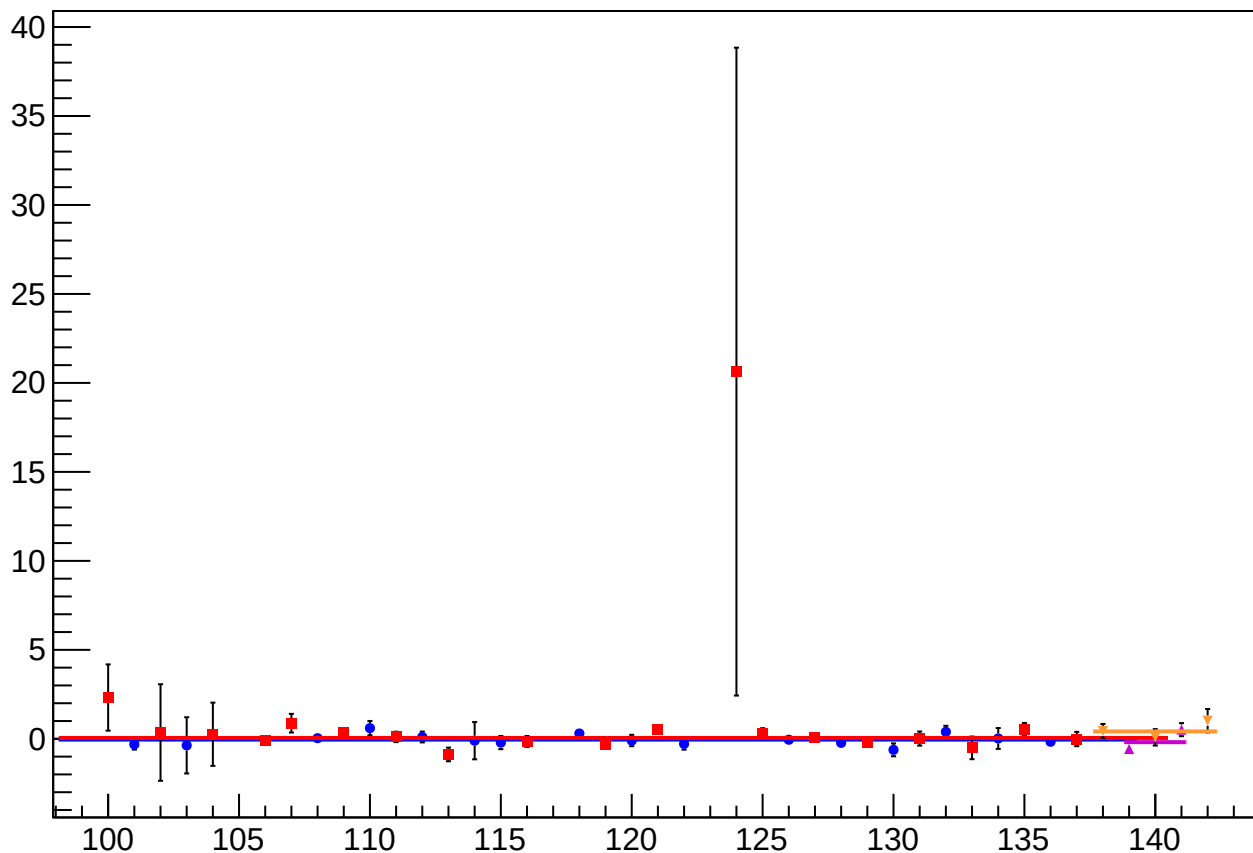
Out: 0.008+/-0.000

χ^2/NDF : 4958471.5/21

All: 0.008+/-0.000

χ^2/NDF : 11206274.8/39

asym_atl1r2_avg_eigen_dit_vs_slug, Sign Corrected



Right In: -0.041 ± 0.078 χ^2/NDF : 11.7/15

Left Out: 0.417 ± 0.272 χ^2/NDF : 1.4/2

Right Out: 0.049 ± 0.079 χ^2/NDF : 23.0/18

Left In: -0.187 ± 0.219 χ^2/NDF : 5.6/1

Left: 0.050 ± 0.171 χ^2/NDF : 10.0/4

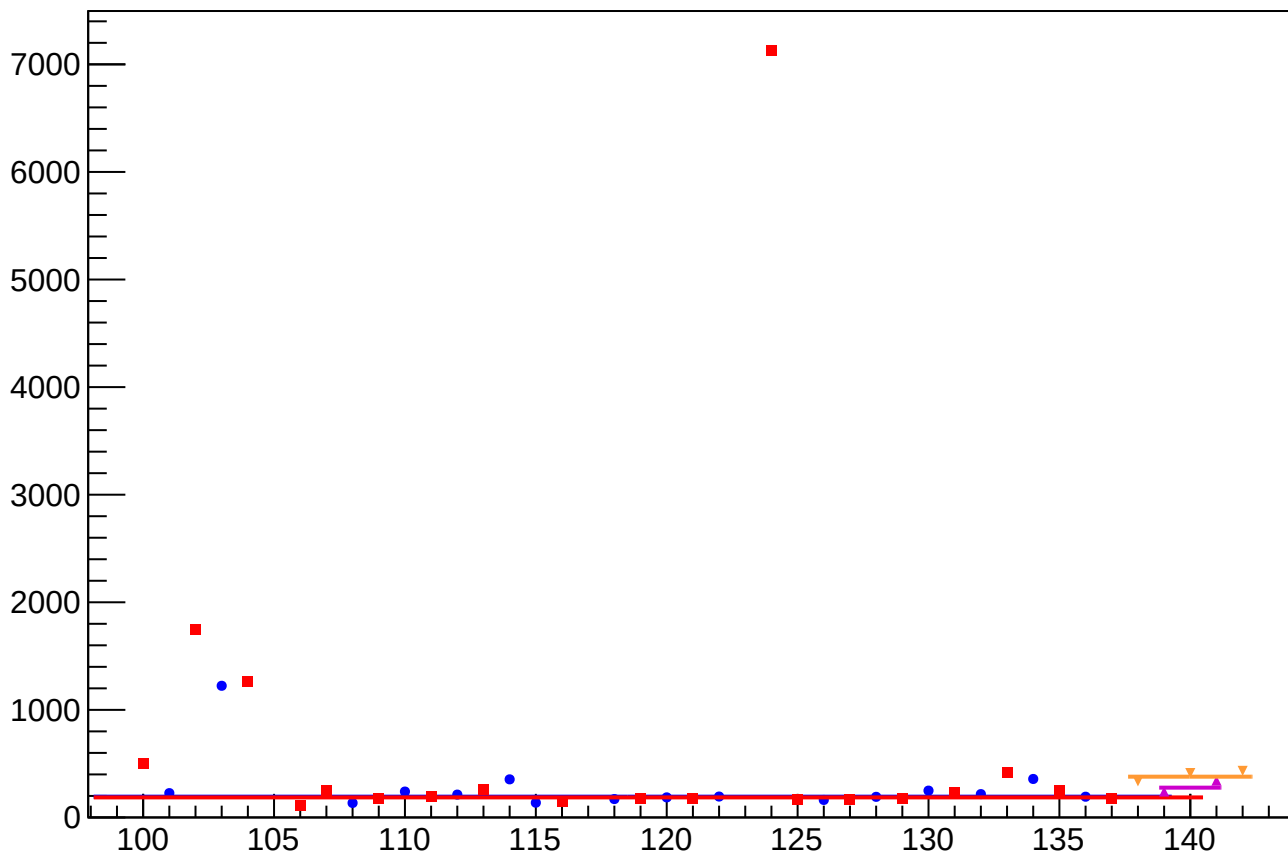
Right: 0.004 ± 0.055 χ^2/NDF : 35.4/34

In: -0.057 ± 0.073 χ^2/NDF : 17.7/17

Out: 0.078 ± 0.076 χ^2/NDF : 26.0/21

All: 0.008 ± 0.053 χ^2/NDF : 45.4/39

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 193.247+/-0.055 χ^2/NDF : 1408390.6/15

Left Out: 379.029+/-0.193 χ^2/NDF : 48466.0/2

Right Out: 186.376+/-0.056 χ^2/NDF : 2479113.1/18

Left In: 276.971+/-0.155 χ^2/NDF : 97901.9/1

Left: 317.048+/-0.121 χ^2/NDF : 317026.4/4

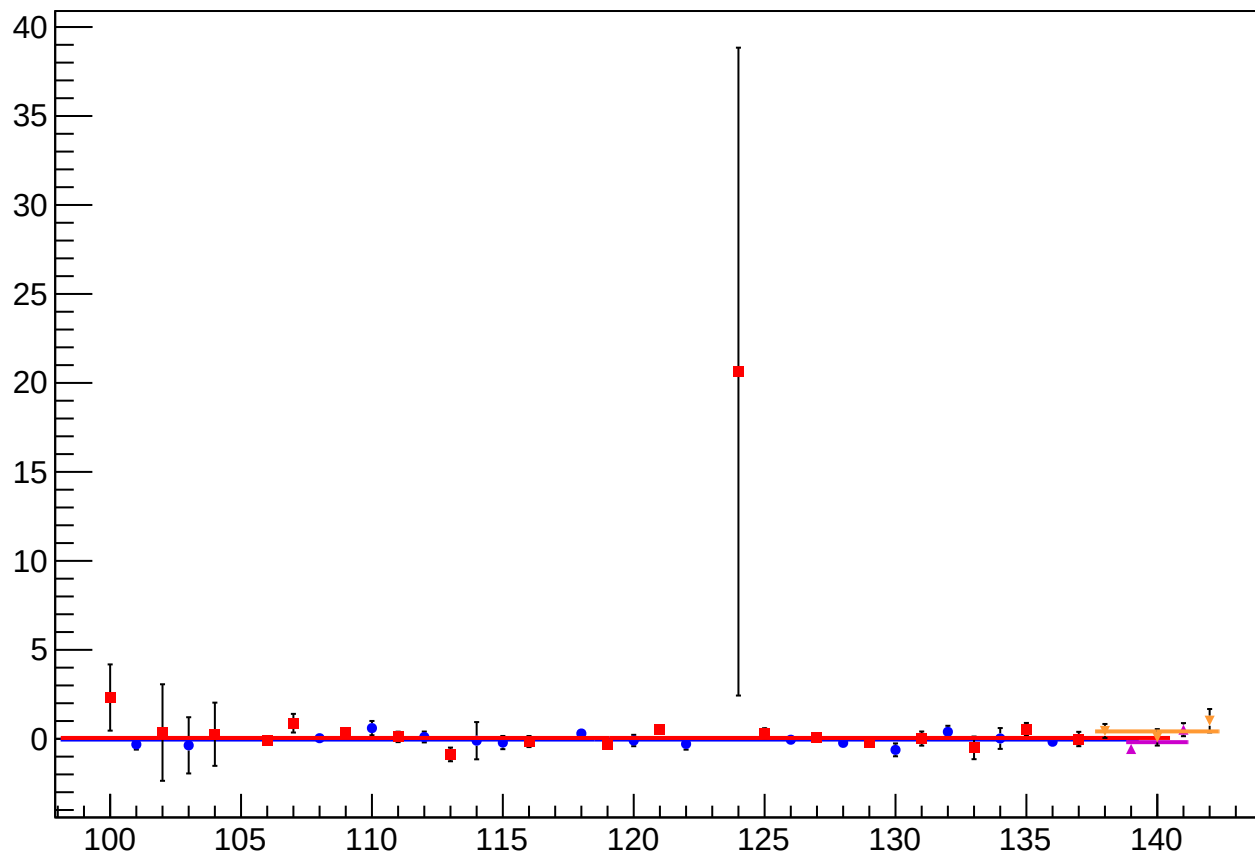
Right: 189.857+/-0.039 χ^2/NDF : 3895208.3/34

In: 202.624+/-0.052 χ^2/NDF : 1766013.3/17

Out: 201.263+/-0.054 χ^2/NDF : 3451536.5/21

All: 201.966+/-0.037 χ^2/NDF : 5217883.8/39

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.041 ± 0.078 χ^2/NDF : 11.7/15

Left Out: 0.417 ± 0.272 χ^2/NDF : 1.4/2

Right Out: 0.049 ± 0.079 χ^2/NDF : 23.0/18

Left In: -0.187 ± 0.219 χ^2/NDF : 5.6/1

Left: 0.050 ± 0.171 χ^2/NDF : 10.0/4

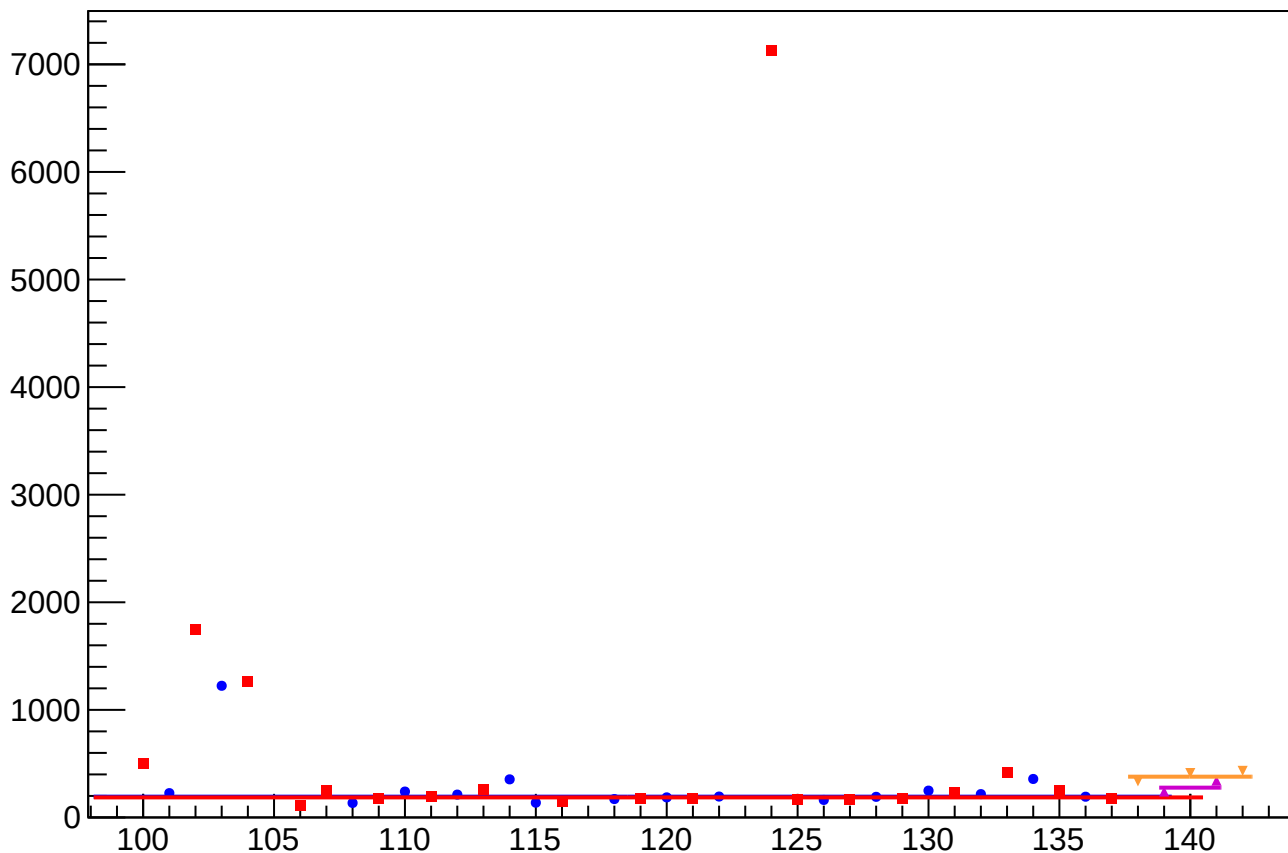
Right: 0.004 ± 0.055 χ^2/NDF : 35.4/34

In: -0.057 ± 0.073 χ^2/NDF : 17.7/17

Out: 0.078 ± 0.076 χ^2/NDF : 26.0/21

All: 0.008 ± 0.053 χ^2/NDF : 45.4/39

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 193.247+/-0.055 χ^2/NDF : 1408390.6/15

Left Out: 379.029+/-0.193 χ^2/NDF : 48466.0/2

Right Out: 186.376+/-0.056 χ^2/NDF : 2479113.1/18

Left In: 276.971+/-0.155 χ^2/NDF : 97901.9/1

Left: 317.048+/-0.121 χ^2/NDF : 317026.4/4

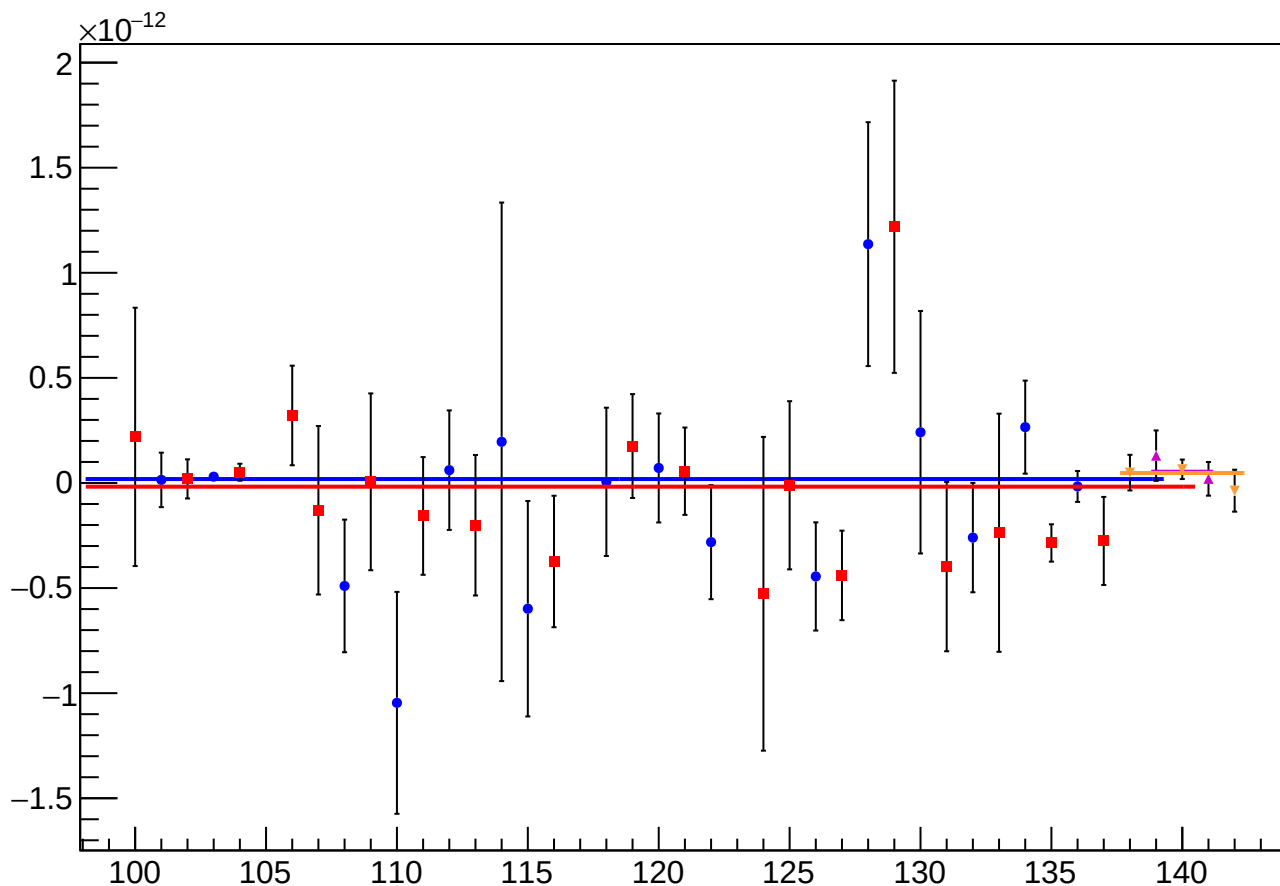
Right: 189.857+/-0.039 χ^2/NDF : 3895208.3/34

In: 202.624+/-0.052 χ^2/NDF : 1766013.3/17

Out: 201.263+/-0.054 χ^2/NDF : 3451536.5/21

All: 201.966+/-0.037 χ^2/NDF : 5217883.8/39

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 27.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.6/1

Left: 0.000+/-0.000 χ^2/NDF : 1.4/4

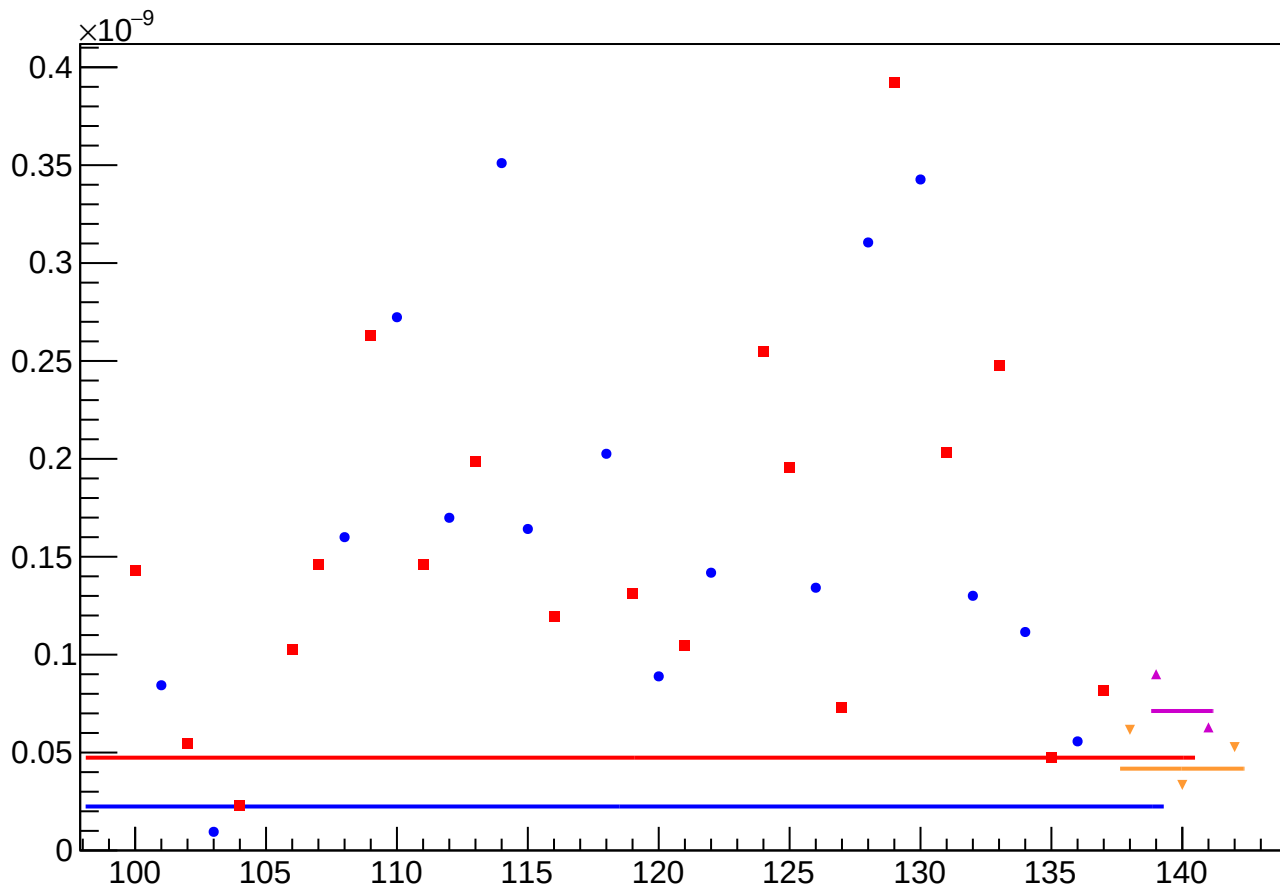
Right: 0.000+/-0.000 χ^2/NDF : 47.5/34

In: 0.000+/-0.000 χ^2/NDF : 20.2/17

Out: 0.000+/-0.000 χ^2/NDF : 29.7/21

All: 0.000+/-0.000 χ^2/NDF : 50.2/39

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 6410173.0/15

Left Out: 0.000+/-0.000 χ^2/NDF :198019.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4236050.4/18

Left In: 0.000+/-0.000 χ^2/NDF :70835.8/1

Left: 0.000+/-0.000 χ^2/NDF : 565151.6/4

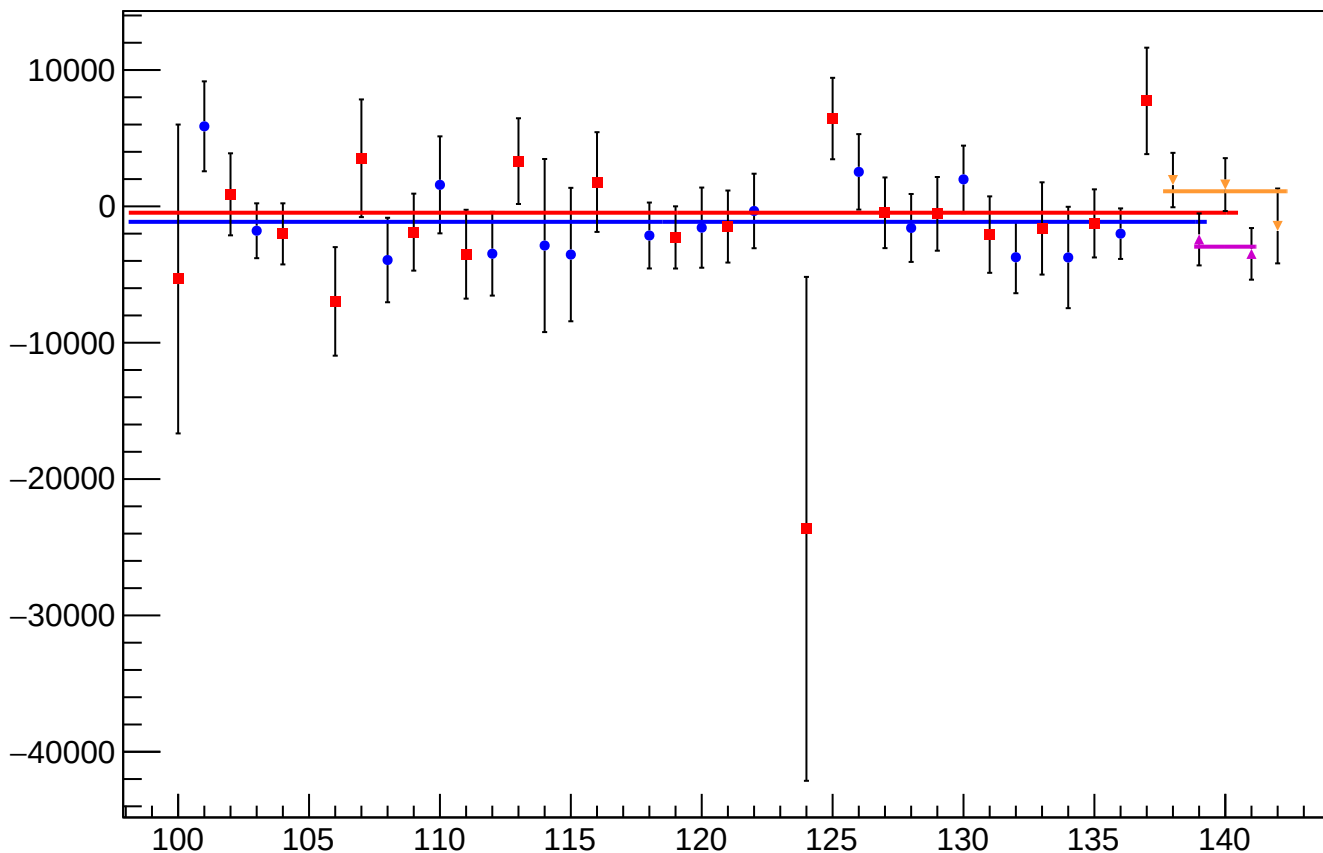
Right: 0.000+/-0.000 χ^2/NDF : 11534651.4/34

In: 0.000+/-0.000 χ^2/NDF :7460110.2/17

Out: 0.000+/-0.000 χ^2/NDF :4460384.6/21

All: 0.000+/-0.000 χ^2/NDF : 12621079.4/39

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1134.630 ± 693.782 χ^2/NDF : 12.2/15

Left Out: 1106.981 ± 1240.299 χ^2/NDF : 1.1/2

Right Out: -465.519 ± 705.926 χ^2/NDF : 20.0/18

Left In: -2957.030 ± 1343.467 χ^2/NDF : 0.2/1

Left: -763.008 ± 911.317 χ^2/NDF : 6.2/4

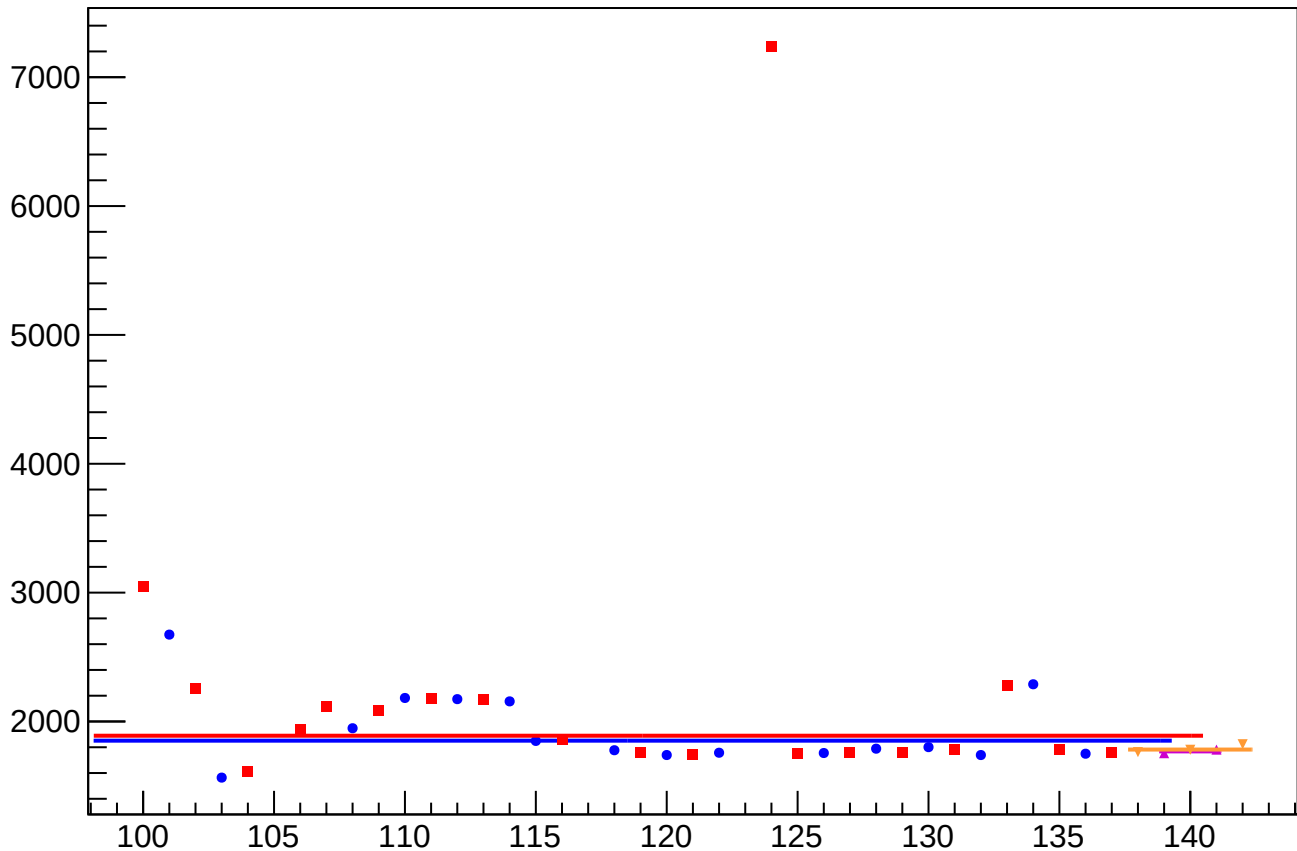
Right: -805.879 ± 494.815 χ^2/NDF : 32.7/34

In: -1518.309 ± 616.438 χ^2/NDF : 13.8/17

Out: -80.761 ± 613.514 χ^2/NDF : 22.3/21

All: -796.118 ± 434.850 χ^2/NDF : 38.9/39

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.130+/-0.491 χ^2/NDF : 259981.6/15

Left Out: 1782.114+/-0.877 χ^2/NDF : 652.6/2

Right Out: 1889.528+/-0.498 χ^2/NDF : 358902.6/18

Left In: 1767.901+/-0.950 χ^2/NDF : 213.6/1

Left: 1775.574+/-0.644 χ^2/NDF : 987.0/4

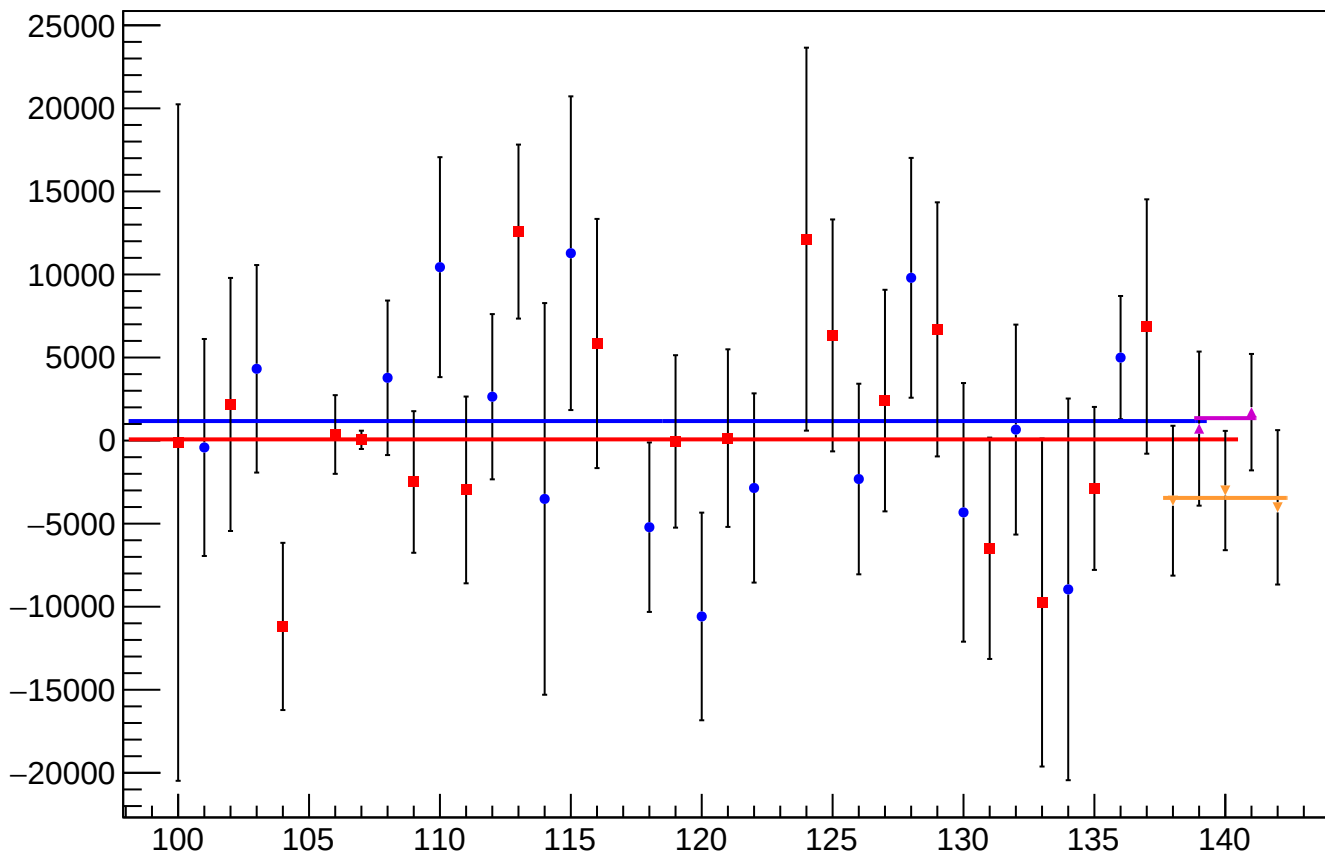
Right: 1870.040+/-0.349 χ^2/NDF : 621901.2/34

In: 1833.608+/-0.436 χ^2/NDF : 266255.0/17

Out: 1863.338+/-0.433 χ^2/NDF : 370897.9/21

All: 1848.569+/-0.307 χ^2/NDF : 639494.1/39

asym_atl1r2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 1175.430 $\pm$ 1502.128 χ^2 /NDF: 13.7/15

Left Out: -3451.308 $\pm$ 2404.156 χ^2 /NDF:0.0/2

Right Out: 72.681 $\pm$ 505.693 χ^2 /NDF: 17.9/18

Left In: 1351.260 $\pm$ 2796.007 χ^2 /NDF:0.0/1

Left: -1409.871 $\pm$ 1822.928 χ^2 /NDF: 1.8/4

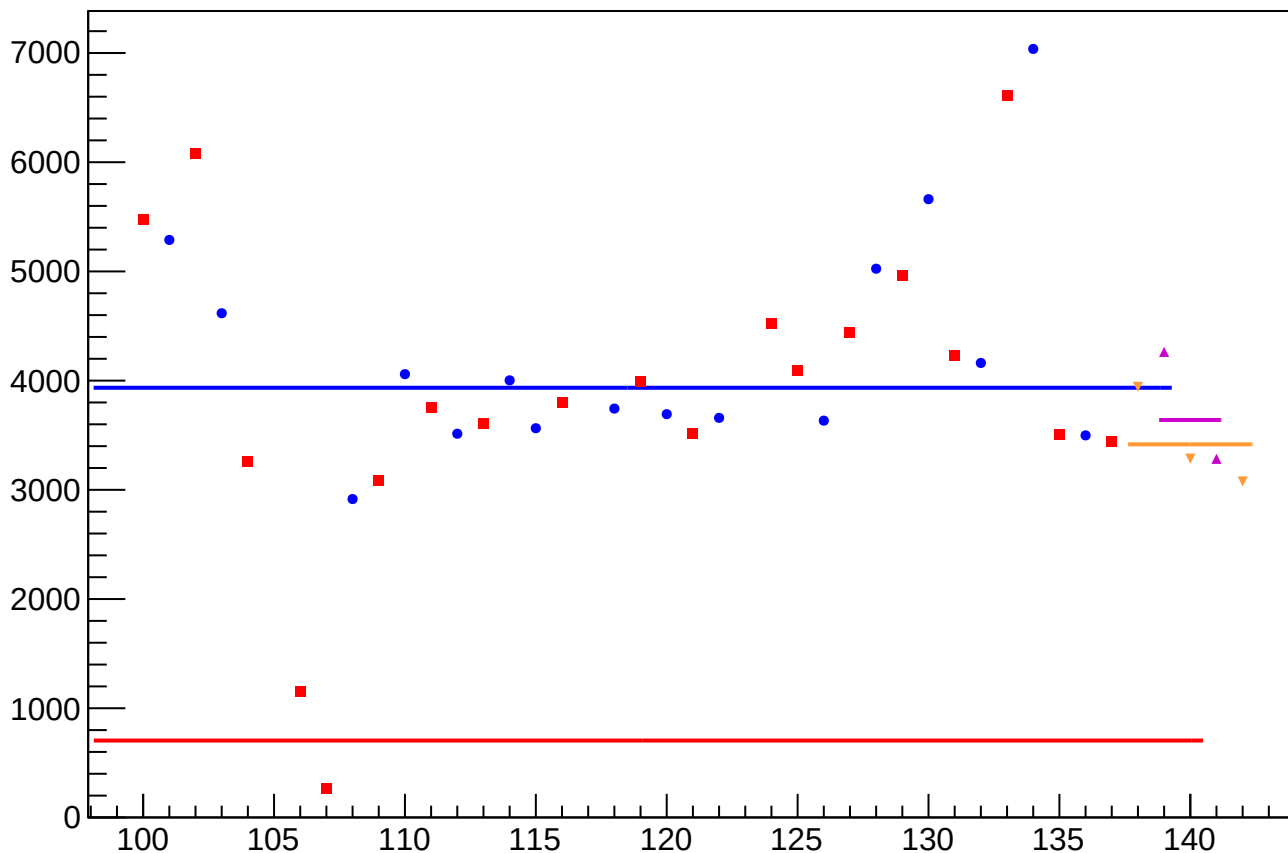
Right: 184.938 $\pm$ 479.263 χ^2 /NDF: 32.1/34

In: 1214.813 $\pm$ 1323.254 χ^2 /NDF:13.8/17

Out: -76.626 $\pm$ 494.864 χ^2 /NDF:20.0/21

All: 81.830 $\pm$ 463.512 χ^2 /NDF: 34.6/39

asym_atl1r2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3934.718+/-1.062

χ^2/NDF : 560125.6/15

Left: 3511.350+/-1.289 χ^2/NDF : 104697.2/4

Right: 1033.223+/-0.339 χ^2/NDF : 19486549.2/34

Left Out: 3416.380+/-1.700

χ^2/NDF : 40616.8/2

In: 3868.663+/-0.936 χ^2/NDF : 634131.3/17

Right Out: 704.385+/-0.358

χ^2/NDF : 10618643.5/18

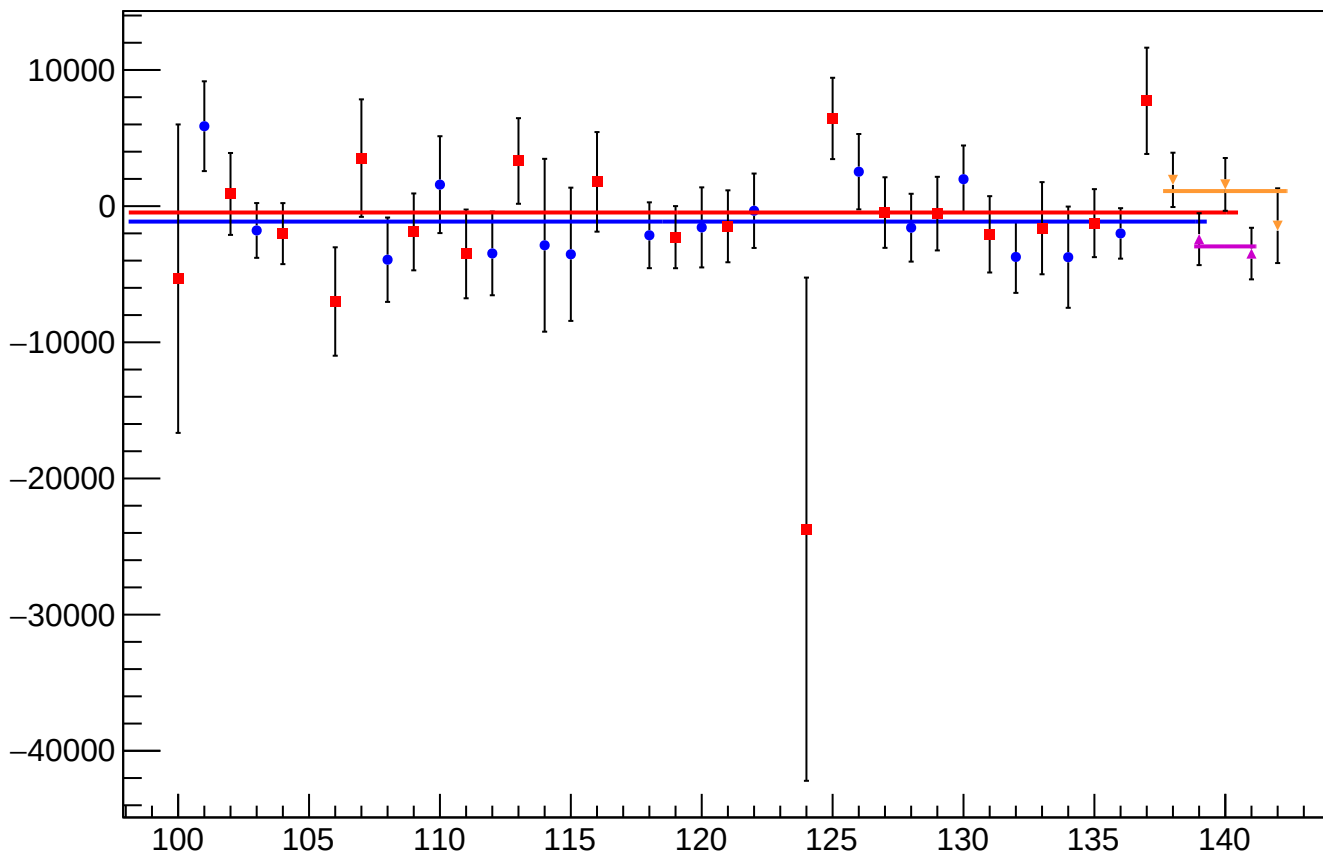
Out: 819.290+/-0.350 χ^2/NDF : 13096401.5/21

Left In: 3639.801+/-1.977

χ^2/NDF : 56738.4/1

All: 1193.439+/-0.328 χ^2/NDF : 23048342.3/3

cor_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1134.203+/-693.782 χ^2/NDF : 12.2/15

Left Out: 1107.188+/-1240.299 χ^2/NDF : 1.1/2

Right Out: -465.899+/-705.928 χ^2/NDF : 20.0/18

Left In: -2956.911+/-1343.467 χ^2/NDF : 0.2/1

Left: -762.842+/-911.317 χ^2/NDF : 6.2/4

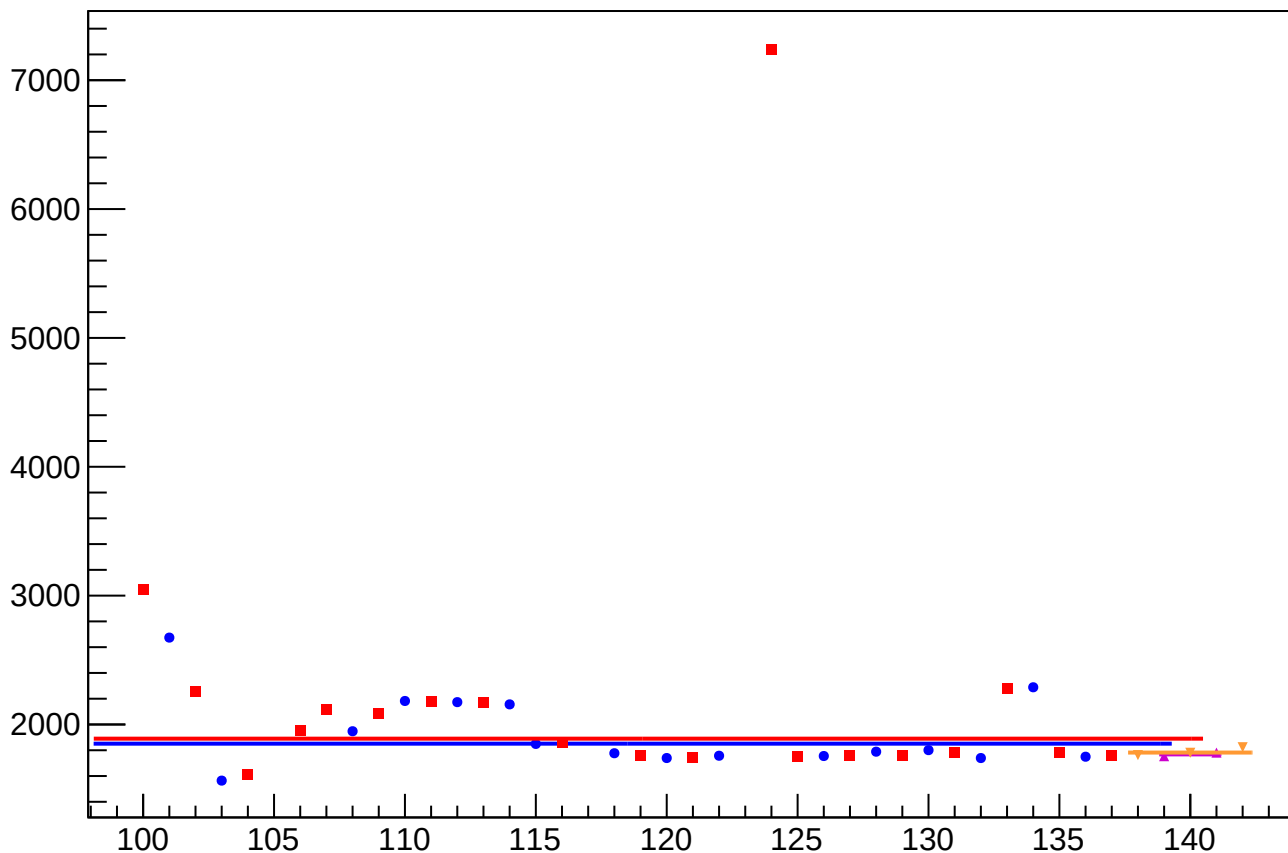
Right: -805.849+/-494.816 χ^2/NDF : 32.7/34

In: -1517.947+/-616.438 χ^2/NDF : 13.8/17

Out: -80.995+/-613.516 χ^2/NDF : 22.4/21

All: -796.057+/-434.851 χ^2/NDF : 38.9/39

cor_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.131+/-0.491 χ^2/NDF : 259980.7/15

Left Out: 1782.114+/-0.877 χ^2/NDF : 652.6/2

Right Out: 1889.986+/-0.498 χ^2/NDF : 359122.3/18

Left In: 1767.901+/-0.950 χ^2/NDF : 213.6/1

Left: 1775.574+/-0.644 χ^2/NDF : 987.0/4

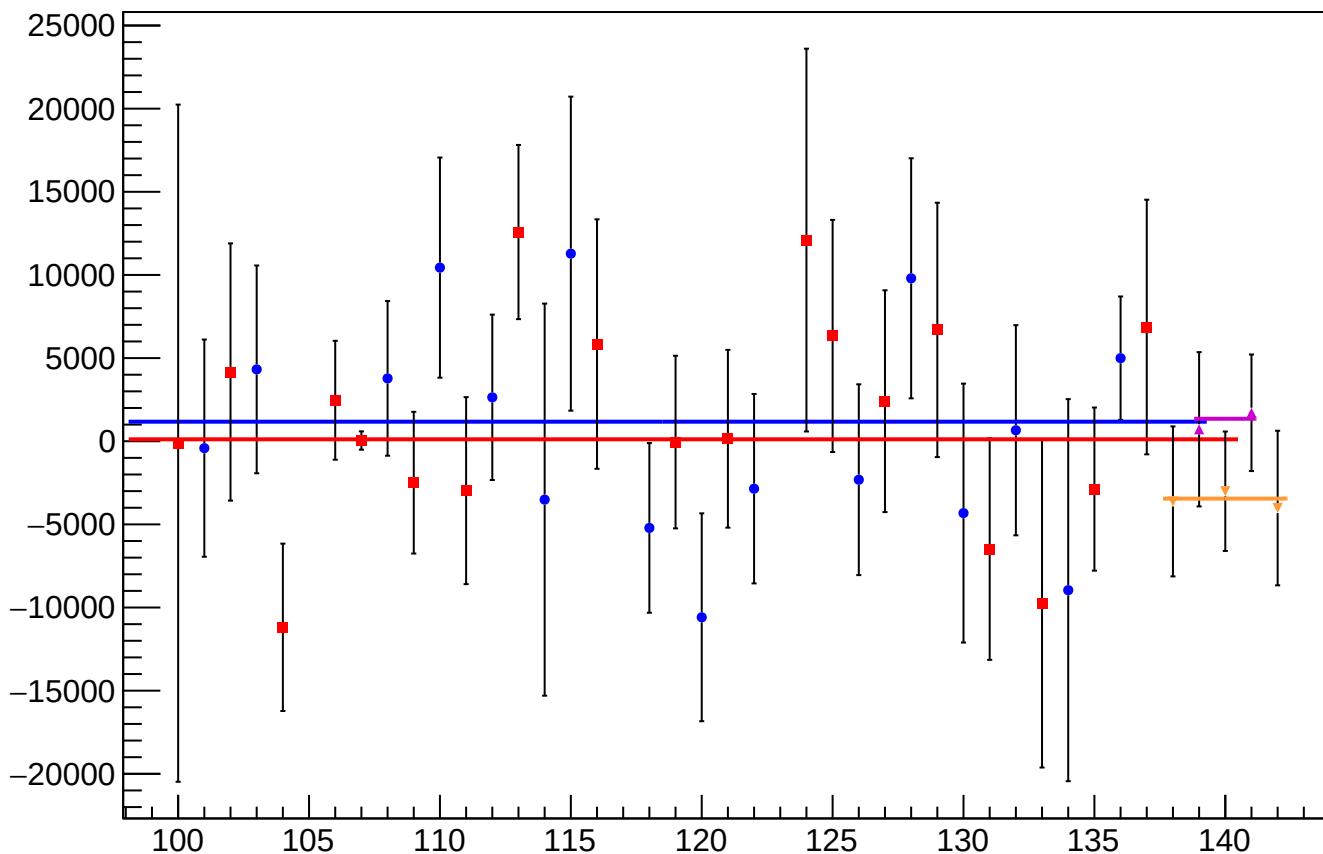
Right: 1870.262+/-0.350 χ^2/NDF : 622191.7/34

In: 1833.608+/-0.436 χ^2/NDF : 266254.2/17

Out: 1863.675+/-0.433 χ^2/NDF : 371213.3/21

All: 1848.737+/-0.307 χ^2/NDF : 639861.7/39

asym_atl1r2_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 1175.408 $\pm$ 1502.134 χ^2 /NDF: 13.7/15

Left Out: -3451.013 $\pm$ 2404.142 χ^2 /NDF:0.0/2

Right Out: 115.917 $\pm$ 512.289 χ^2 /NDF: 18.6/18

Left In: 1351.369 $\pm$ 2796.002 χ^2 /NDF:0.0/1

Left: -1409.665 $\pm$ 1822.920 χ^2 /NDF: 1.8/4

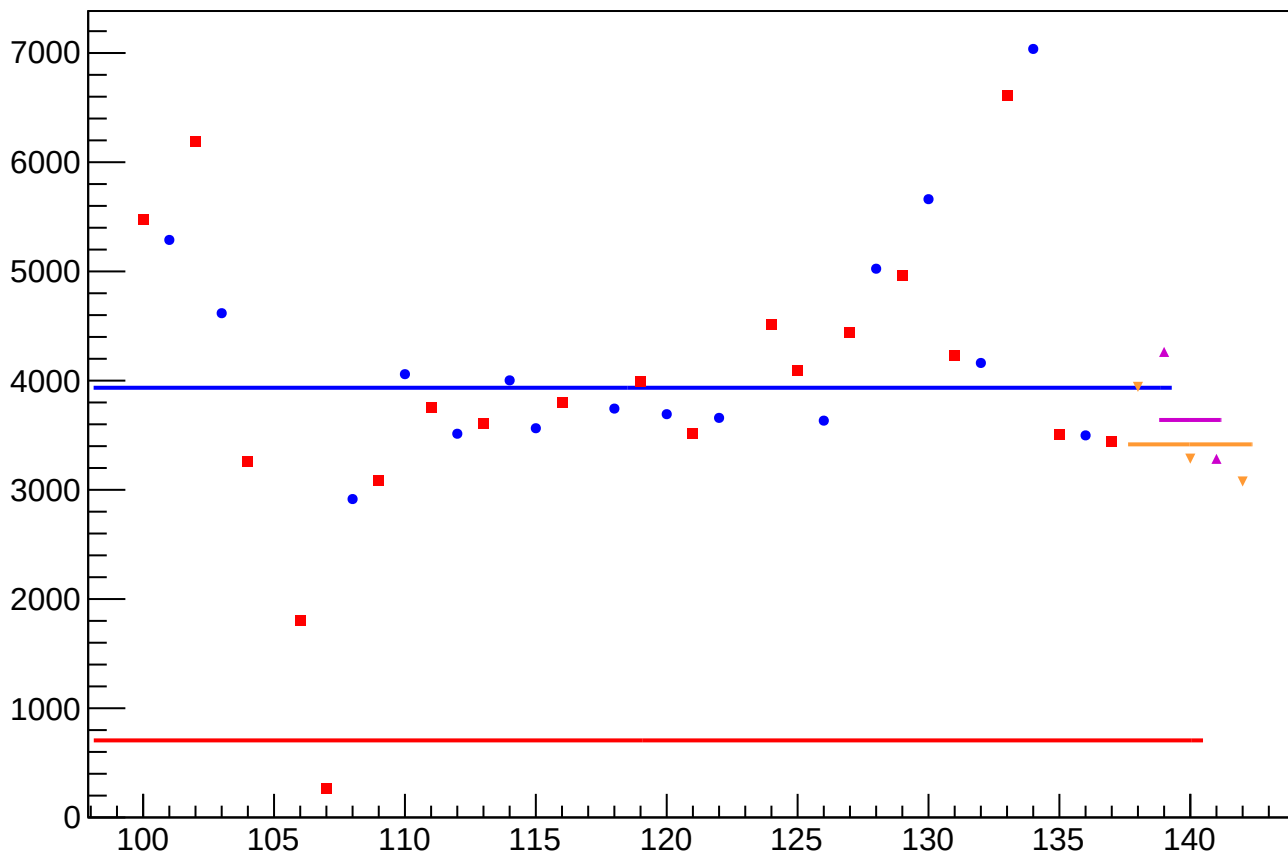
Right: 226.306 $\pm$ 484.867 χ^2 /NDF: 32.7/34

In: 1214.820 $\pm$ 1323.258 χ^2 /NDF:13.8/17

Out: -39.008 $\pm$ 501.040 χ^2 /NDF:20.7/21

All: 118.212 $\pm$ 468.575 χ^2 /NDF: 35.2/39

asym_atl1r2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3934.727+/-1.062

χ^2/NDF : 560149.8/15

Left: 3511.334+/-1.289 χ^2/NDF : 104700.3/4

Right: 1042.063+/-0.343 χ^2/NDF : 19586646.8/34

Left Out: 3416.357+/-1.700

χ^2/NDF : 40618.8/2

In: 3868.667+/-0.936 χ^2/NDF : 634157.3/17

Right Out: 705.620+/-0.362

χ^2/NDF : 10747208.1/18

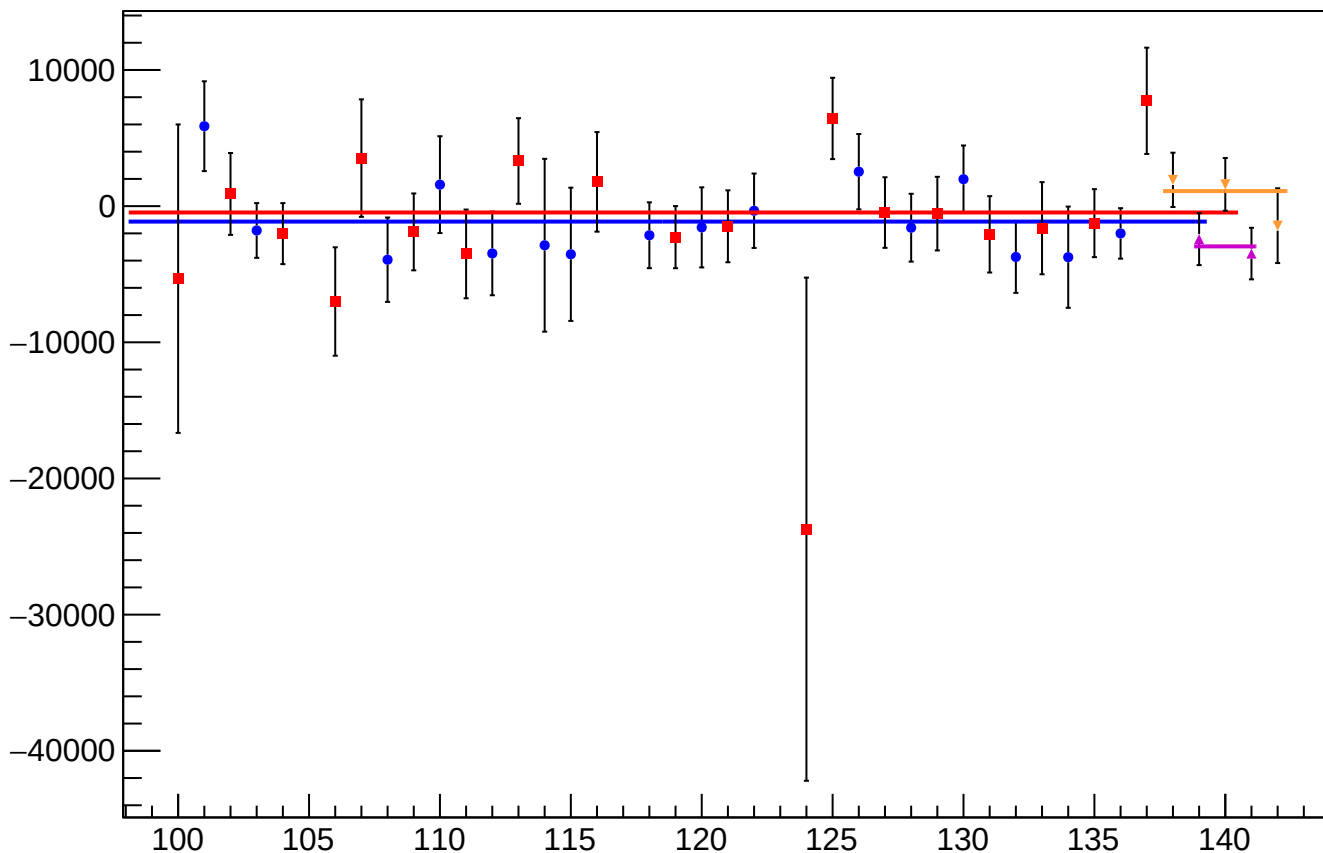
Out: 823.357+/-0.354 χ^2/NDF : 13220030.3/21

Left In: 3639.795+/-1.977

χ^2/NDF : 56738.3/1

All: 1205.215+/-0.331 χ^2/NDF : 23118594.0/3

eigen_cor_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1134.203+/-693.782 χ^2/NDF : 12.2/15

Left Out: 1107.188+/-1240.299 χ^2/NDF : 1.1/2

Right Out: -465.899+/-705.928 χ^2/NDF : 20.0/18

Left In: -2956.911+/-1343.467 χ^2/NDF : 0.2/1

Left: -762.842+/-911.317 χ^2/NDF : 6.2/4

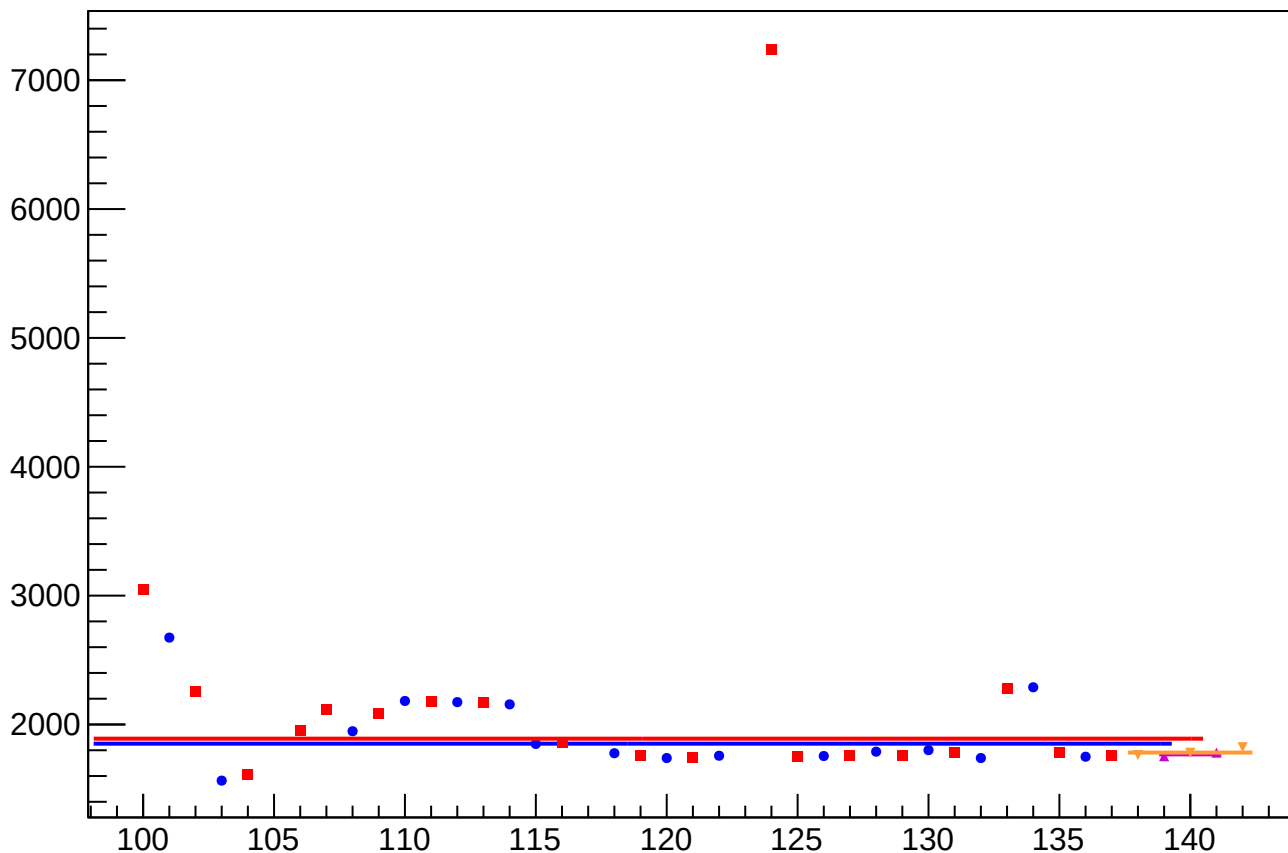
Right: -805.849+/-494.816 χ^2/NDF : 32.7/34

In: -1517.947+/-616.438 χ^2/NDF : 13.8/17

Out: -80.995+/-613.516 χ^2/NDF : 22.4/21

All: -796.057+/-434.851 χ^2/NDF : 38.9/39

eigen_cor_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.131+/-0.491 χ^2/NDF : 259980.7/15

Left Out: 1782.114+/-0.877 χ^2/NDF : 652.6/2

Right Out: 1889.986+/-0.498 χ^2/NDF : 359122.3/18

Left In: 1767.901+/-0.950 χ^2/NDF : 213.6/1

Left: 1775.574+/-0.644 χ^2/NDF : 987.0/4

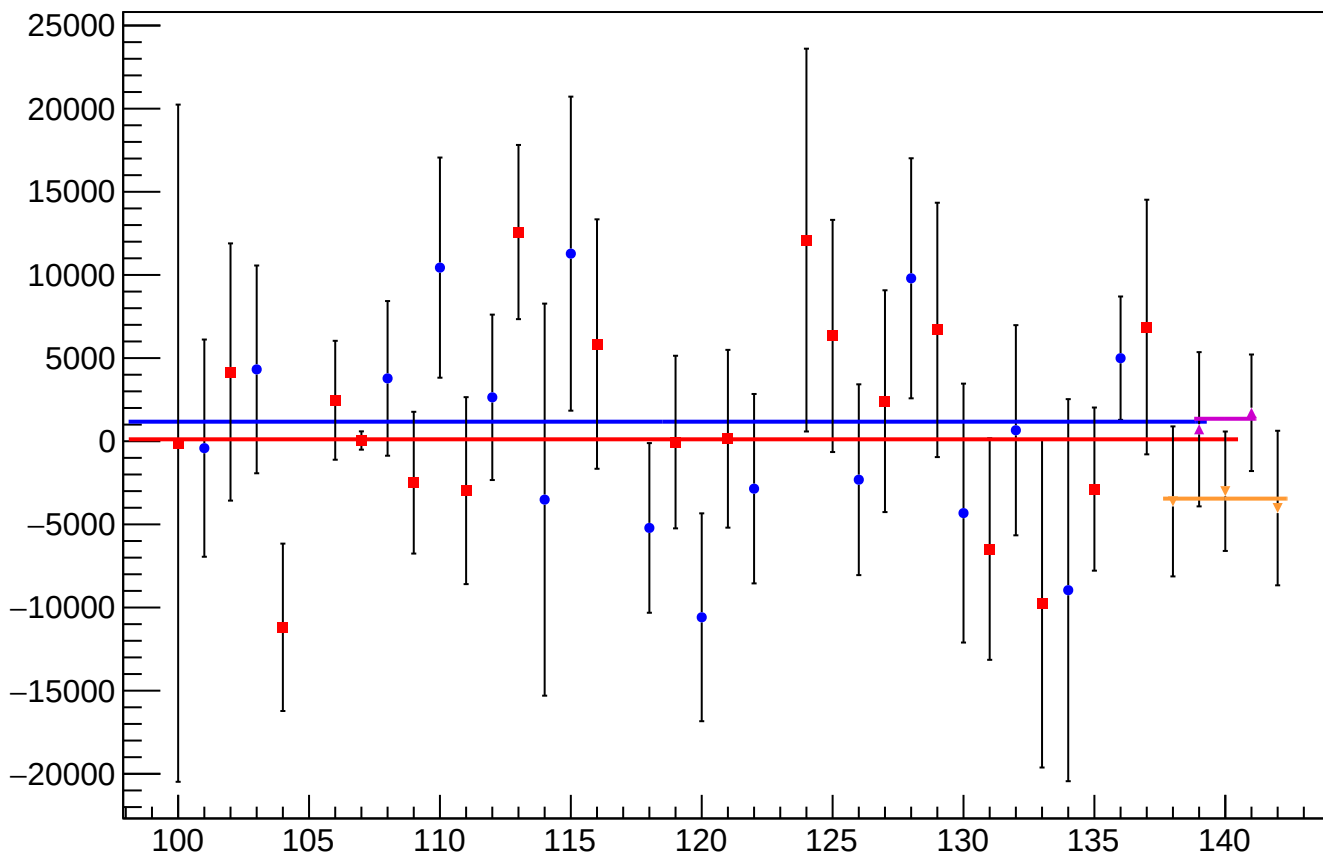
Right: 1870.262+/-0.350 χ^2/NDF : 622191.7/34

In: 1833.608+/-0.436 χ^2/NDF : 266254.2/17

Out: 1863.675+/-0.433 χ^2/NDF : 371213.3/21

All: 1848.737+/-0.307 χ^2/NDF : 639861.7/39

asym_atl1r2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 1175.408 $\pm$ 1502.134 χ^2 /NDF: 13.7/15

Left Out: -3451.013 $\pm$ 2404.142 χ^2 /NDF:0.0/2

Right Out: 115.917 $\pm$ 512.289 χ^2 /NDF: 18.6/18

Left In: 1351.369 $\pm$ 2796.002 χ^2 /NDF:0.0/1

Left: -1409.665 $\pm$ 1822.920 χ^2 /NDF: 1.8/4

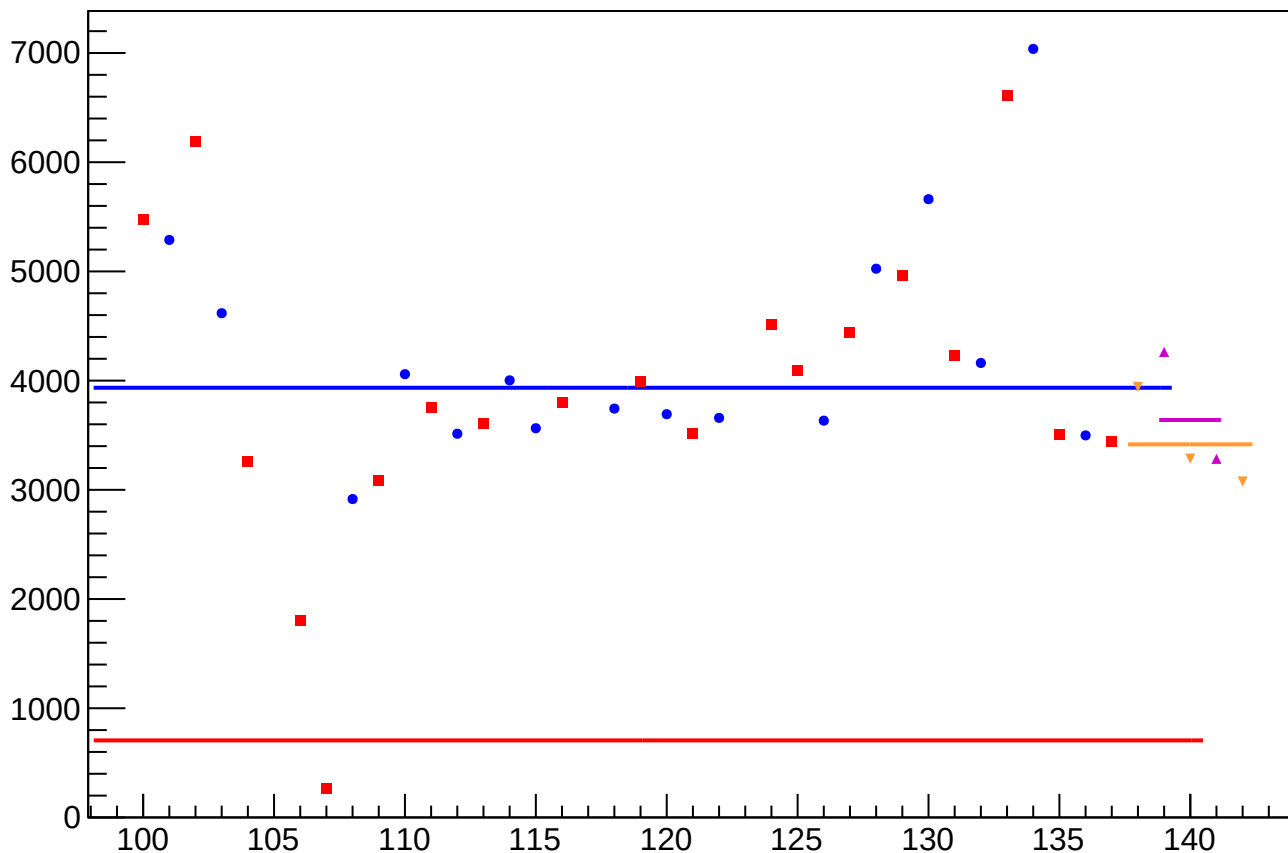
Right: 226.306 $\pm$ 484.867 χ^2 /NDF: 32.7/34

In: 1214.820 $\pm$ 1323.258 χ^2 /NDF:13.8/17

Out: -39.008 $\pm$ 501.040 χ^2 /NDF:20.7/21

All: 118.212 $\pm$ 468.575 χ^2 /NDF: 35.2/39

asym_atl1r2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3934.727+/-1.062

χ^2/NDF : 560149.8/15

Left Out: 3416.357+/-1.700

χ^2/NDF : 40618.8/2

Right Out: 705.620+/-0.362

χ^2/NDF : 10747208.1/18

Left In: 3639.795+/-1.977

χ^2/NDF : 56738.3/1

Left: 3511.334+/-1.289 χ^2/NDF : 104700.3/4

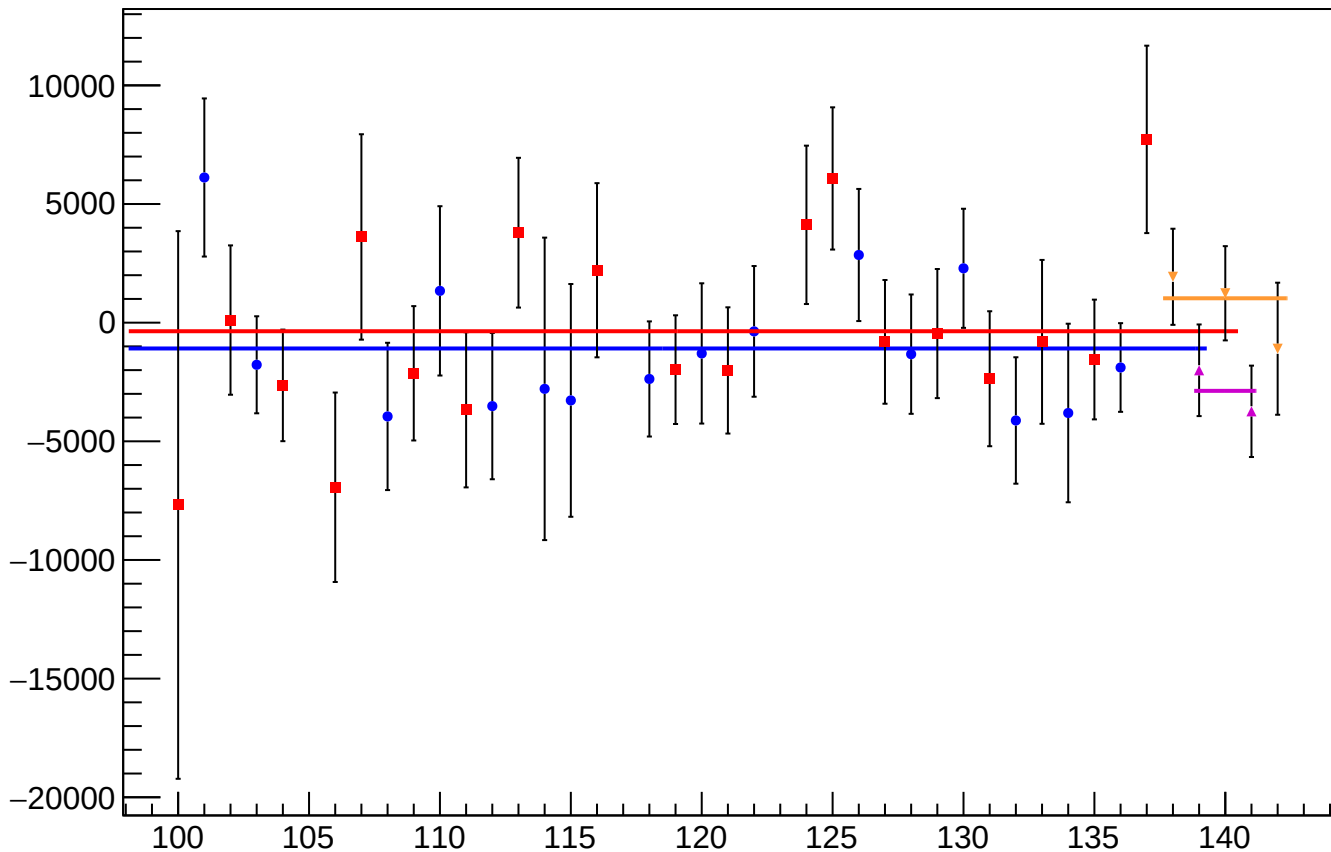
Right: 1042.063+/-0.343 χ^2/NDF : 19586646.8/34

In: 3868.667+/-0.936 χ^2/NDF : 634157.3/17

Out: 823.357+/-0.354 χ^2/NDF : 13220030.3/21

All: 1205.215+/-0.331 χ^2/NDF : 23118594.0/3

dit_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1087.731+/-699.579 χ^2/NDF : 13.2/15

Left Out: 1027.256+/-1263.276 χ^2/NDF : 0.8/2

Right Out: -361.218+/-699.665 χ^2/NDF : 20.8/18

Left In: -2873.669+/-1363.460 χ^2/NDF : 0.4/1

Left: -774.641+/-926.667 χ^2/NDF : 5.6/4

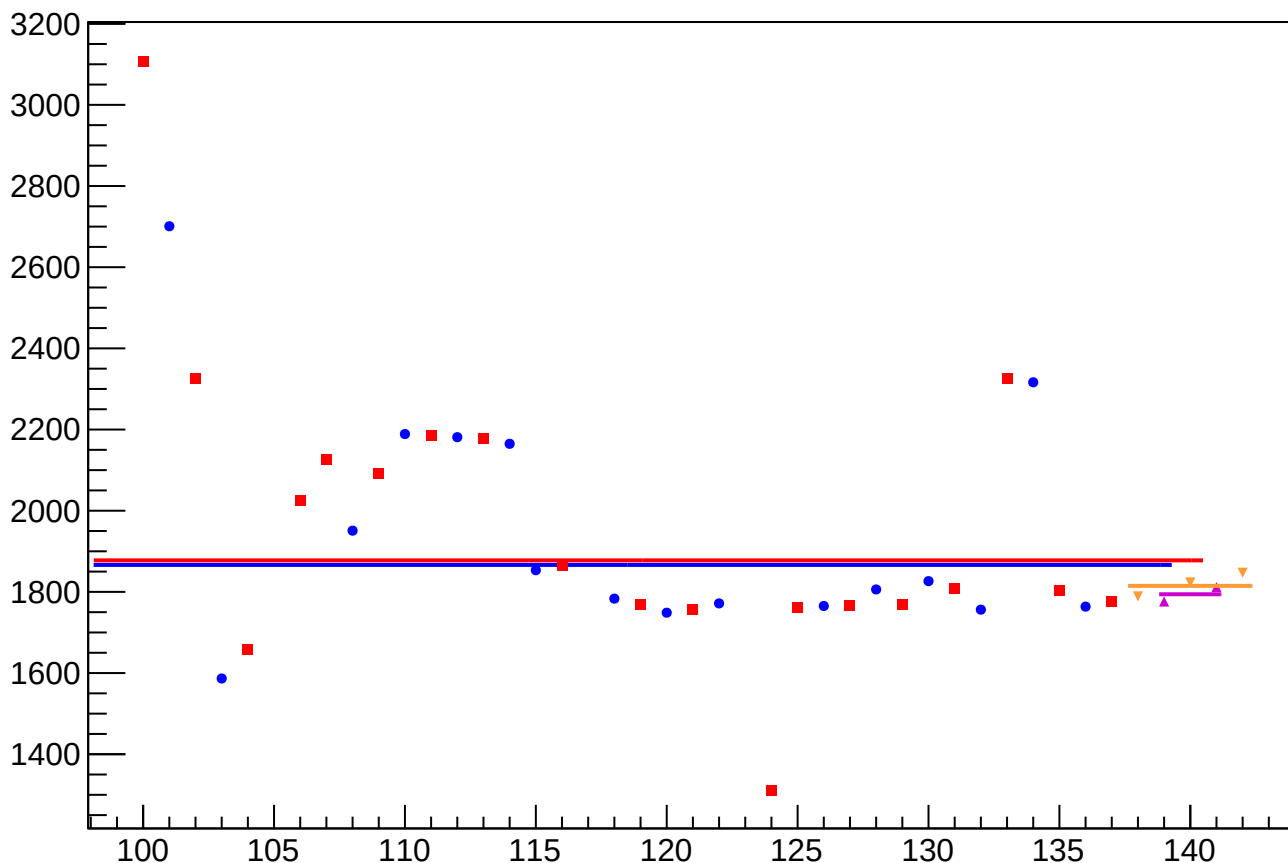
Right: -724.519+/-494.707 χ^2/NDF : 34.5/34

In: -1459.919+/-622.429 χ^2/NDF : 14.9/17

Out: -35.284+/-612.060 χ^2/NDF : 22.5/21

All: -735.636+/-436.412 χ^2/NDF : 40.1/39

dit_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1866.456 $\pm$ 0.495 χ^2 /NDF: 256262.4/15

Left Out: 1814.808 $\pm$ 0.893 χ^2 /NDF: 634.6/2

Right Out: 1877.659 $\pm$ 0.494 χ^2 /NDF: 251850.5/18

Left In: 1794.126 $\pm$ 0.964 χ^2 /NDF: 339.3/1

Left: 1805.255 $\pm$ 0.655 χ^2 /NDF: 1221.5/4

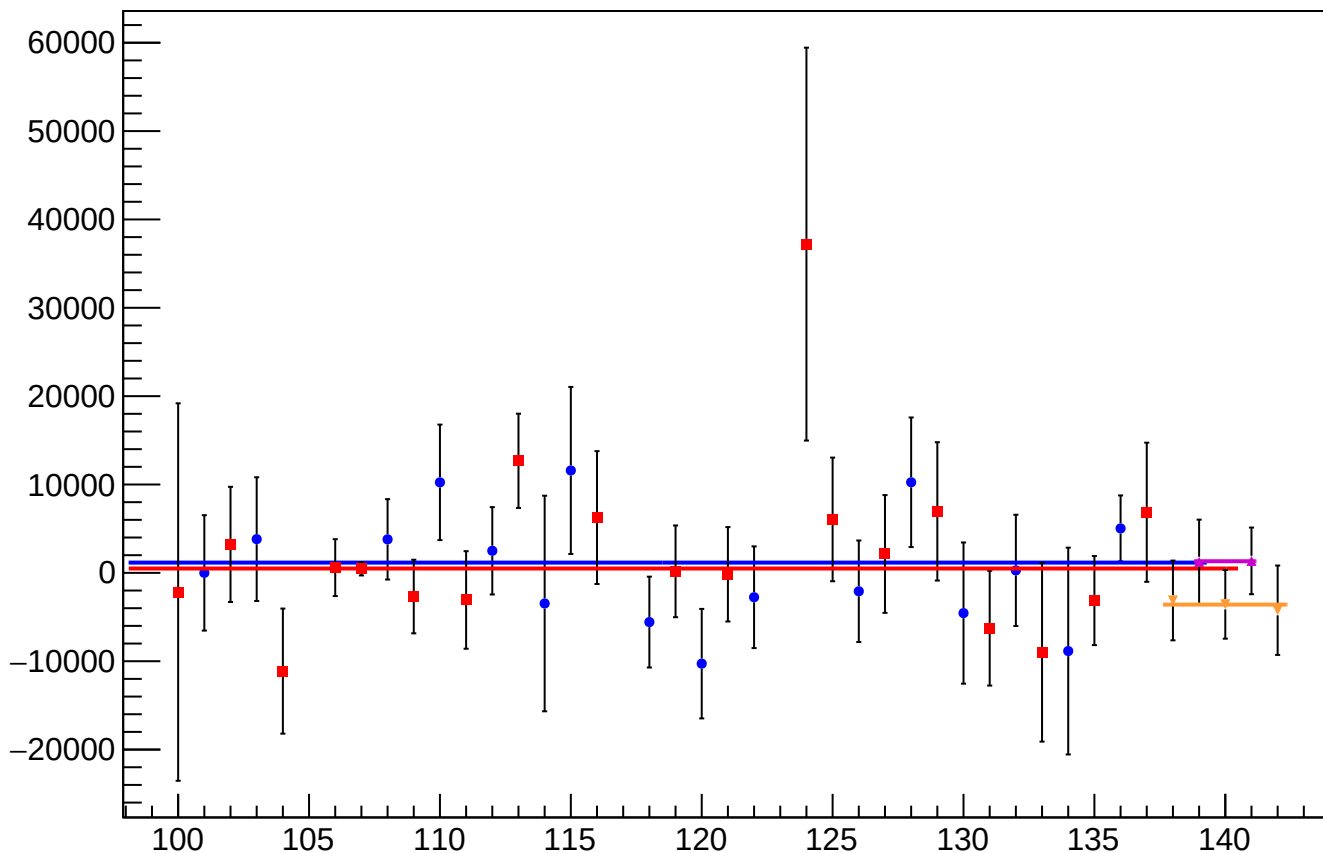
Right: 1872.061 $\pm$ 0.350 χ^2 /NDF: 508369.5/34

In: 1851.382 $\pm$ 0.440 χ^2 /NDF: 261057.1/17

Out: 1862.924 $\pm$ 0.433 χ^2 /NDF: 256275.1/21

All: 1857.254 $\pm$ 0.308 χ^2 /NDF: 517682.0/39

asym_atl1r2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1161.124+/-1512.225 χ^2/NDF : 13.7/15

Left Out: -3591.135+/-2545.520 χ^2/NDF : 0.0/2

Right Out: 492.907+/-658.510 χ^2/NDF : 16.9/18

Left In: 1314.229+/-2960.070 χ^2/NDF : 0.0/1

Left: -1505.726+/-1930.021 χ^2/NDF : 1.6/4

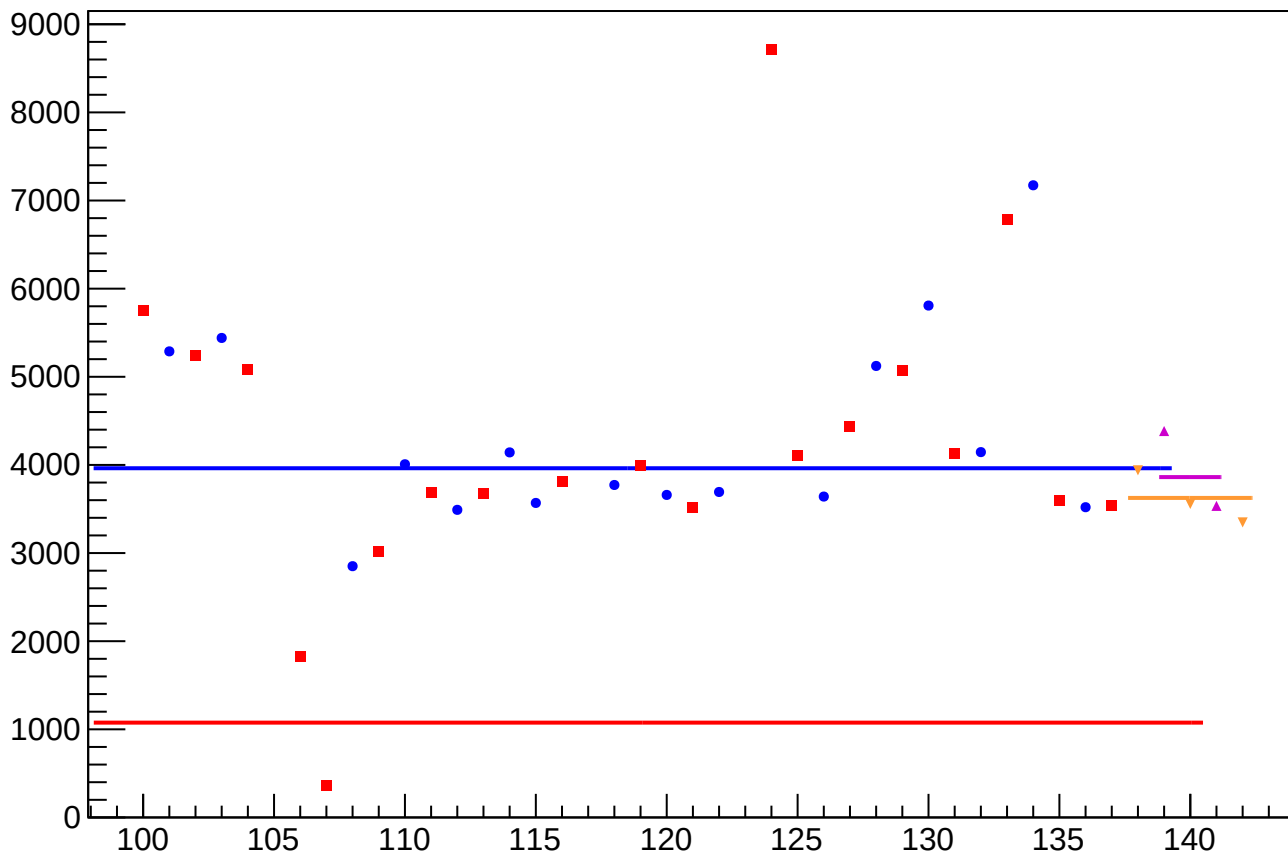
Right: 599.419+/-603.751 χ^2/NDF : 30.8/34

In: 1192.812+/-1346.667 χ^2/NDF : 13.7/17

Out: 236.736+/-637.523 χ^2/NDF : 19.4/21

All: 411.778+/-576.216 χ^2/NDF : 33.4/39

asym_atl1r2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3962.368 $\pm$ 1.069 χ^2 /NDF: 668339.6/15

Left Out: 3625.567 $\pm$ 1.800 χ^2 /NDF:16297.1/2

Right Out: 1075.957 $\pm$ 0.466 χ^2 /NDF: 9558372.9/18

Left In: 3861.937 $\pm$ 2.093 χ^2 /NDF:38962.1/1

Left: 3726.054 $\pm$ 1.365 χ^2 /NDF: 62590.5/4

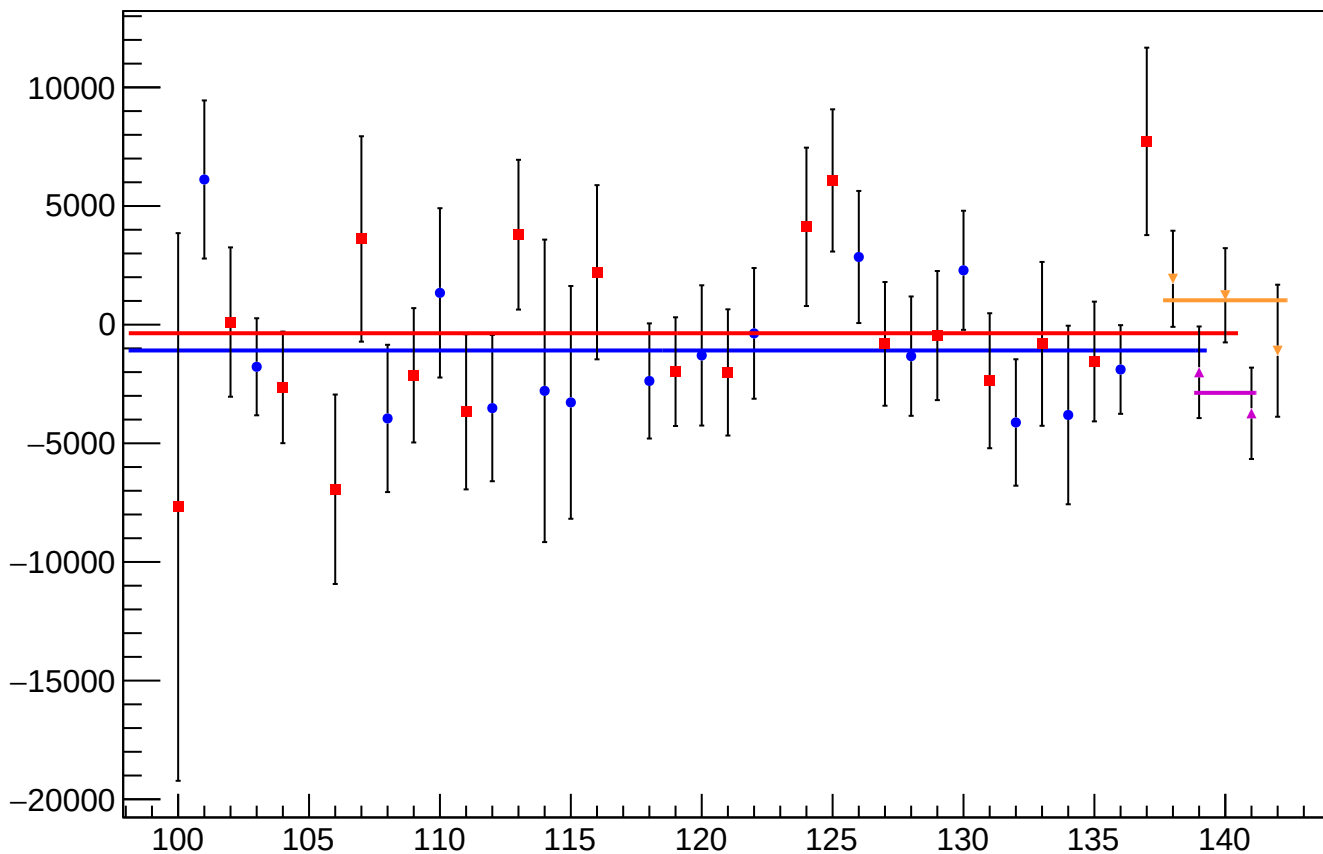
Right: 1536.045 $\pm$ 0.427 χ^2 /NDF: 16351680.6/34

In: 3941.581 $\pm$ 0.952 χ^2 /NDF:709127.4/17

Out: 1235.881 $\pm$ 0.451 χ^2 /NDF:11455248.3/21

All: 1731.251 $\pm$ 0.407 χ^2 /NDF: 18759860.8/3

eigen_dit_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1087.736 $\pm$ 699.579 χ^2 /NDF: 13.2/15

Left Out: 1027.250 $\pm$ 1263.276 χ^2 /NDF:0.8/2

Right Out: -361.223 $\pm$ 699.665 χ^2 /NDF: 20.8/18

Left In: -2873.651 $\pm$ 1363.460 χ^2 /NDF:0.4/1

Left: -774.636 $\pm$ 926.667 χ^2 /NDF: 5.6/4

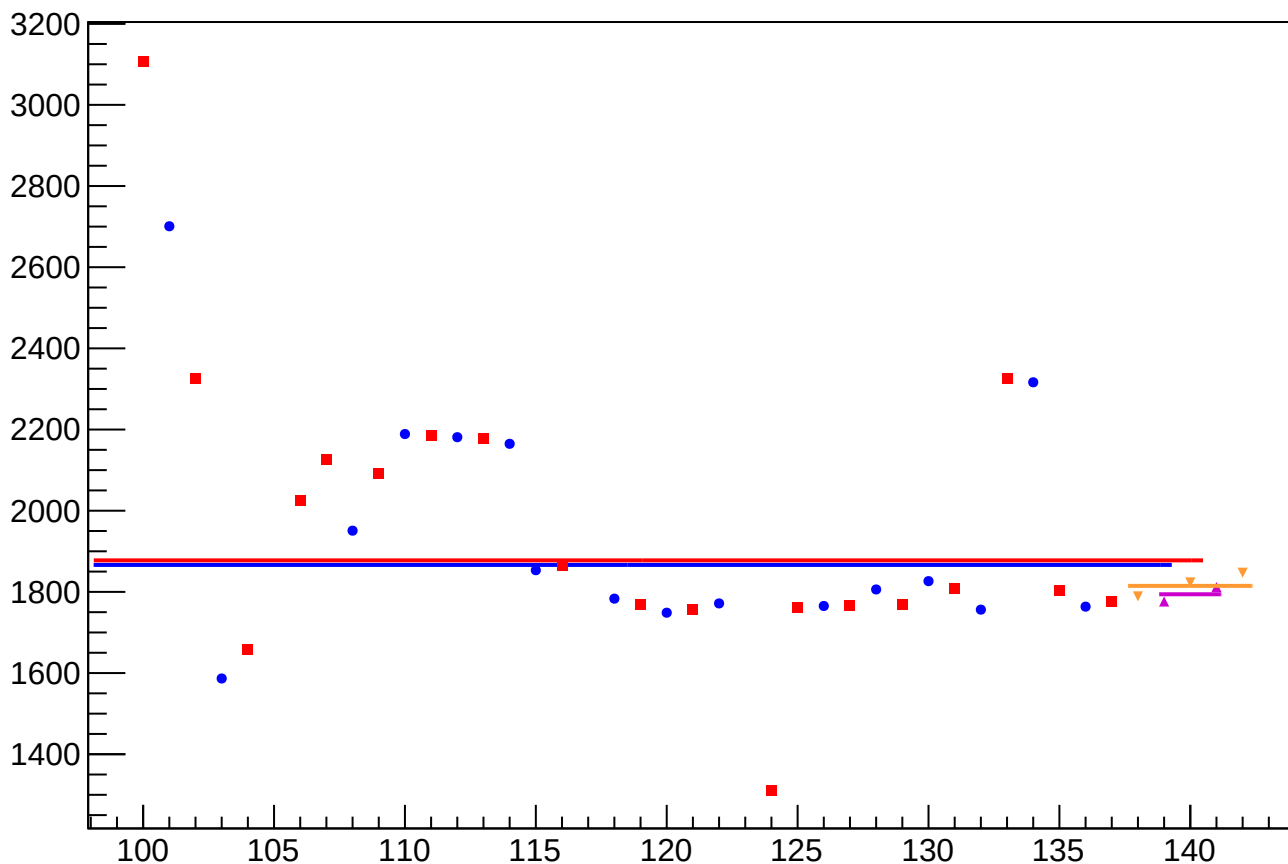
Right: -724.524 $\pm$ 494.707 χ^2 /NDF: 34.5/34

In: -1459.918 $\pm$ 622.429 χ^2 /NDF:14.9/17

Out: -35.290 $\pm$ 612.060 χ^2 /NDF:22.5/21

All: -735.638 $\pm$ 436.412 χ^2 /NDF: 40.1/39

eigen_dit_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1866.456+/-0.495 χ^2/NDF : 256262.3/15

Left Out: 1814.808+/-0.893 χ^2/NDF : 634.6/2

Right Out: 1877.659+/-0.494 χ^2/NDF : 251850.8/18

Left In: 1794.126+/-0.964 χ^2/NDF : 339.3/1

Left: 1805.255+/-0.655 χ^2/NDF : 1221.5/4

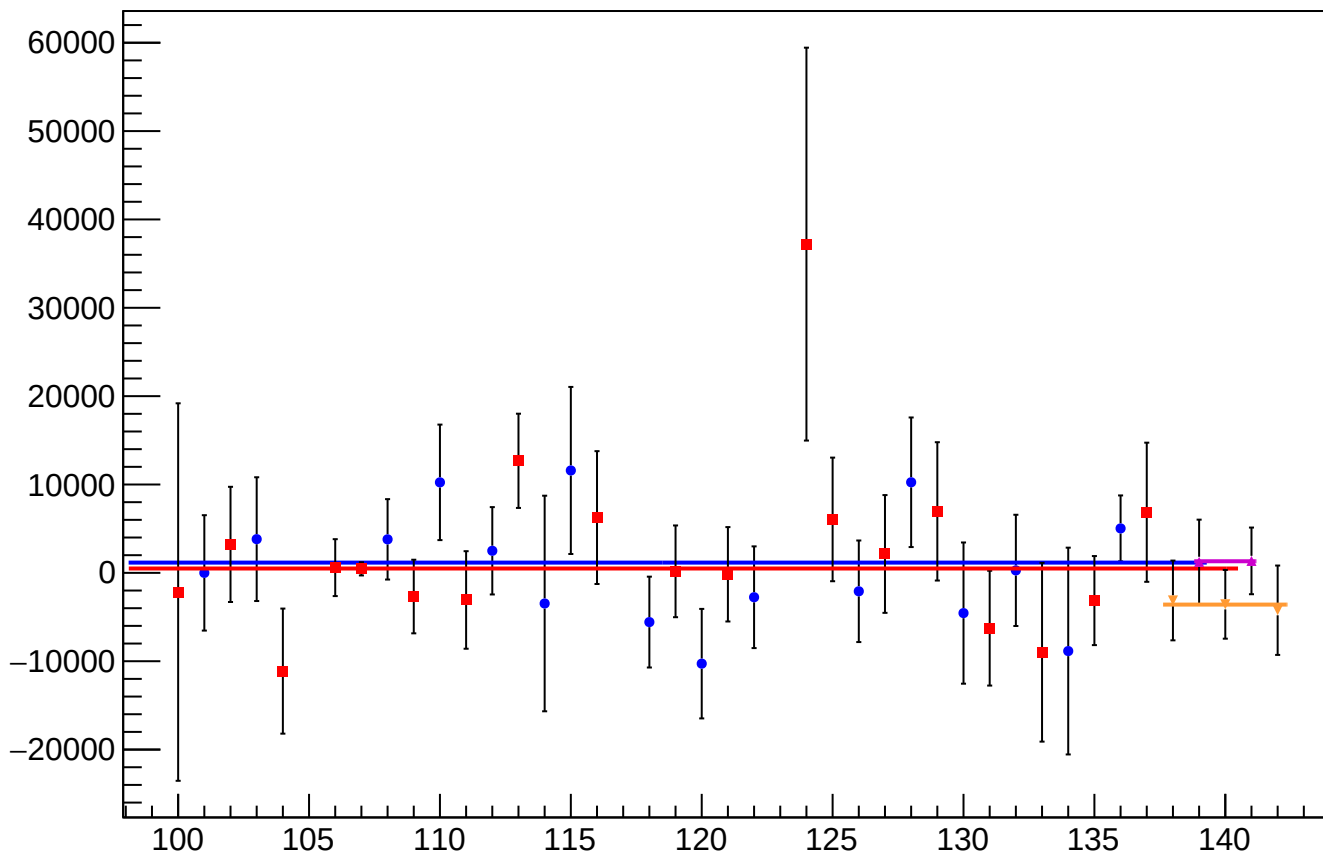
Right: 1872.061+/-0.350 χ^2/NDF : 508369.7/34

In: 1851.382+/-0.440 χ^2/NDF : 261056.9/17

Out: 1862.924+/-0.433 χ^2/NDF : 256275.3/21

All: 1857.254+/-0.308 χ^2/NDF : 517682.0/39

asym_atl1r2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1161.104+/-1512.222 χ^2/NDF : 13.7/15

Left Out: -3591.144+/-2545.521 χ^2/NDF : 0.0/2

Right Out: 492.914+/-658.521 χ^2/NDF : 16.9/18

Left In: 1314.247+/-2960.072 χ^2/NDF : 0.0/1

Left: -1505.724+/-1930.022 χ^2/NDF : 1.6/4

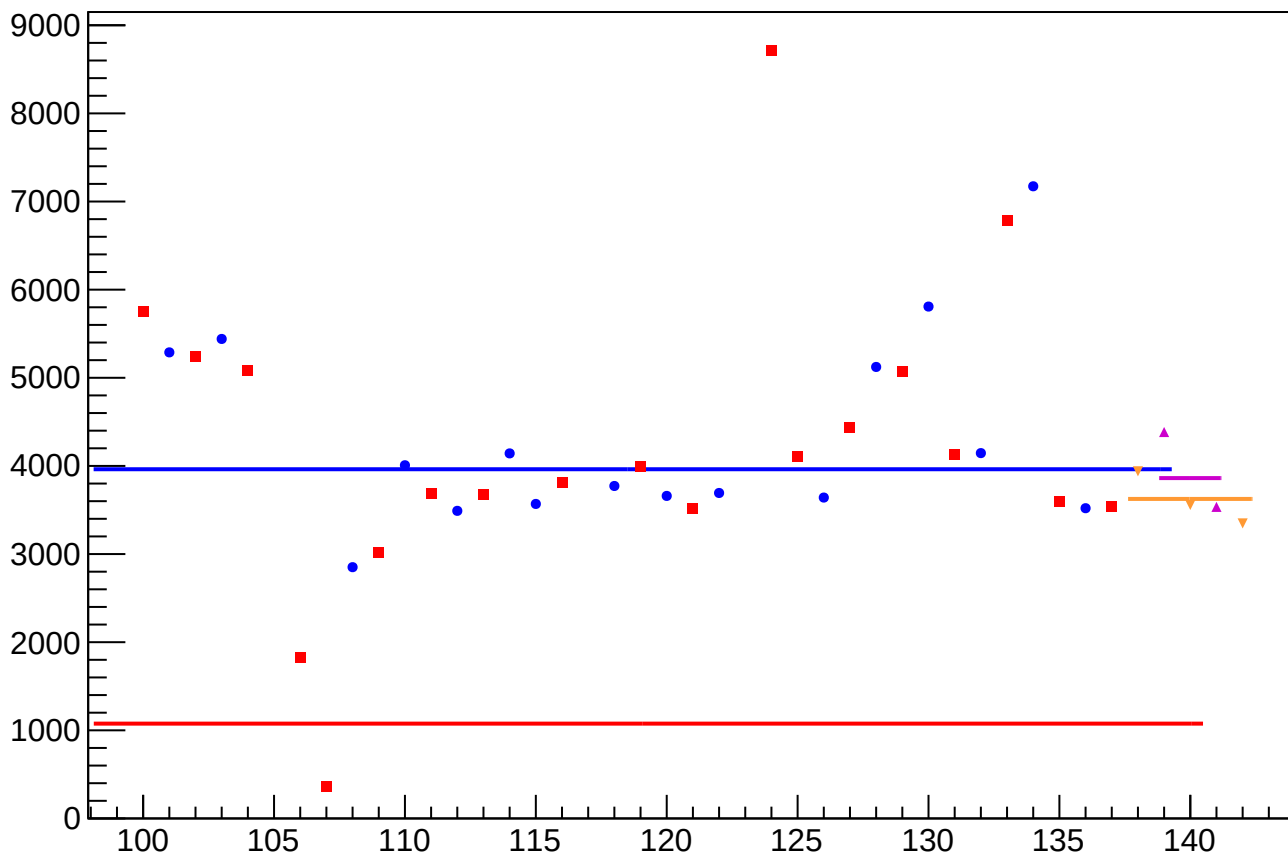
Right: 599.426+/-603.759 χ^2/NDF : 30.8/34

In: 1192.800+/-1346.665 χ^2/NDF : 13.7/17

Out: 236.735+/-637.533 χ^2/NDF : 19.4/21

All: 411.780+/-576.223 χ^2/NDF : 33.4/39

asym_atl1r2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3962.361+/-1.069 χ^2/NDF : 668335.9/15

Left Out: 3625.568+/-1.800 χ^2/NDF : 16297.5/2

Right Out: 1075.988+/-0.466 χ^2/NDF : 9558243.3/18

Left In: 3861.939+/-2.093 χ^2/NDF : 38963.0/1

Left: 3726.056+/-1.365 χ^2/NDF : 62591.8/4

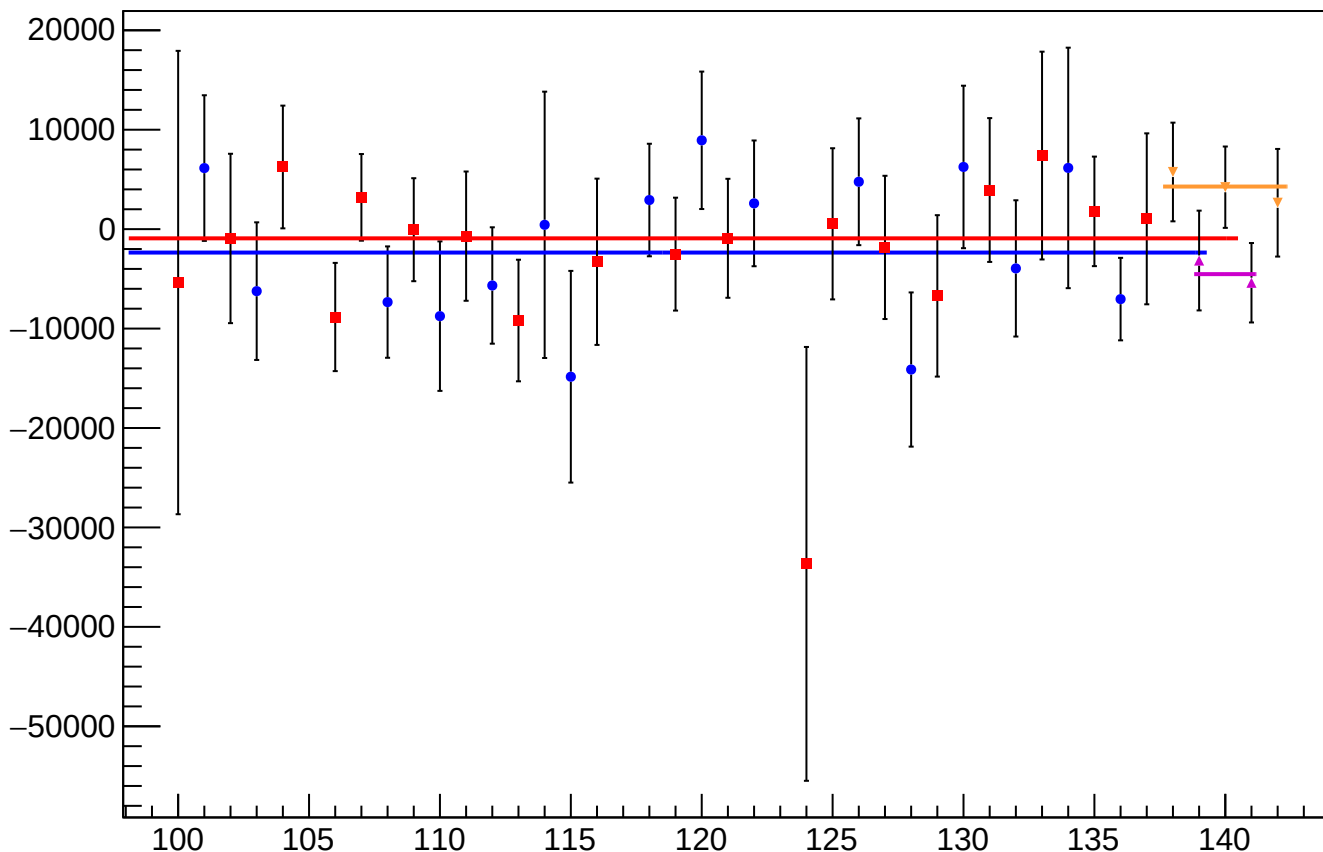
Right: 1536.084+/-0.427 χ^2/NDF : 16351375.7/34

In: 3941.577+/-0.952 χ^2/NDF : 709124.4/17

Out: 1235.915+/-0.451 χ^2/NDF : 11455070.2/21

All: 1731.291+/-0.407 χ^2/NDF : 18759469.4/3

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -2354.851+/-1684.784 χ^2/NDF : 15.5/15

Left Out: 4283.848+/-2726.694 χ^2/NDF : 0.2/2

Right Out: -924.896+/-1546.889 χ^2/NDF : 10.6/18

Left In: -4524.031+/-3125.079 χ^2/NDF : 0.1/1

Left: 476.778+/-2054.569 χ^2/NDF : 4.8/4

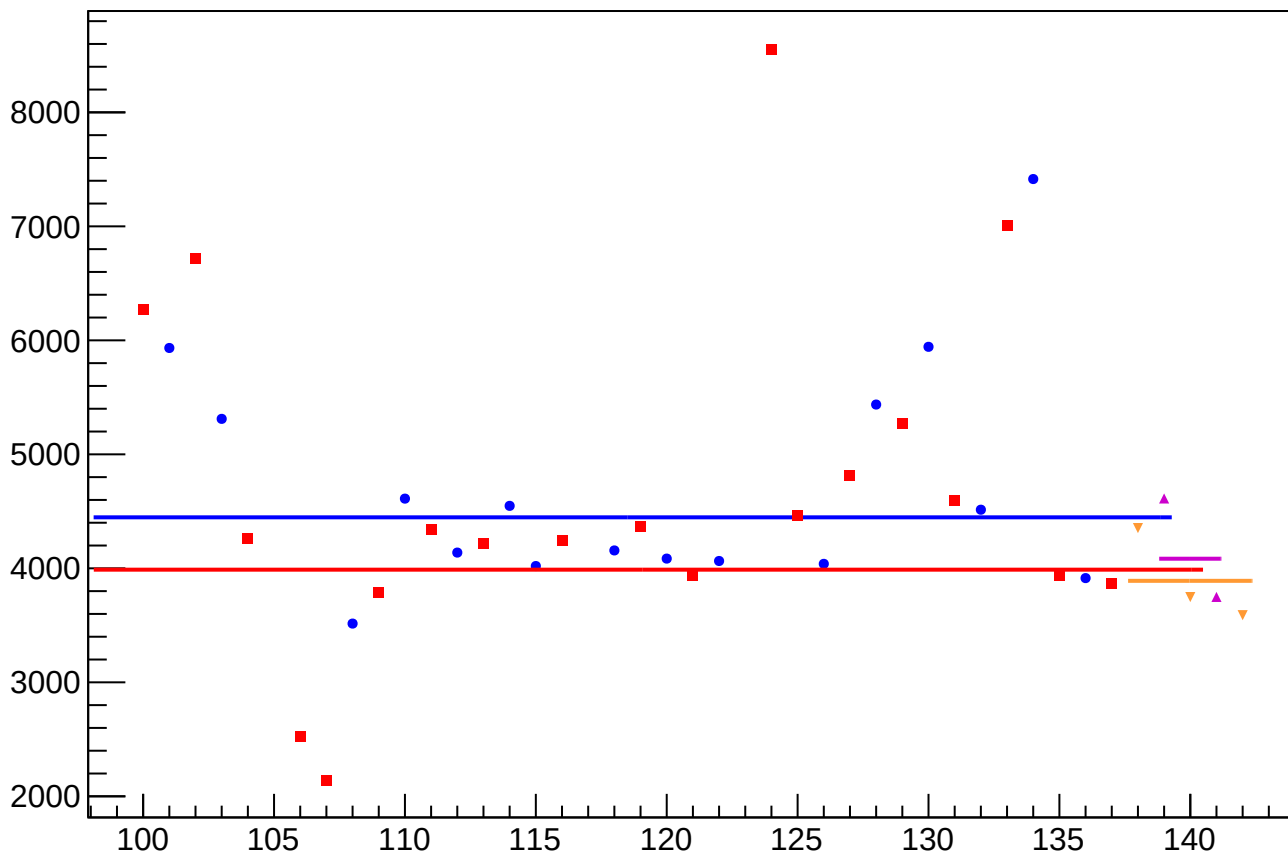
Right: -1578.969+/-1139.452 χ^2/NDF : 26.5/34

In: -2843.340+/-1482.998 χ^2/NDF : 16.0/17

Out: 343.335+/-1345.455 χ^2/NDF : 13.5/21

All: -1095.405+/-996.467 χ^2/NDF : 32.1/39

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 4447.424+/-1.191 χ^2 /NDF: 458251.2/15

Left Out: 3890.332+/-1.928 χ^2 /NDF: 26020.9/2

Right Out: 3988.249+/-1.083 χ^2 /NDF: 1143932.4/18

Left In: 4084.341+/-2.210 χ^2 /NDF: 36272.2/1

Left: 3974.189+/-1.453 χ^2 /NDF: 66669.5/4

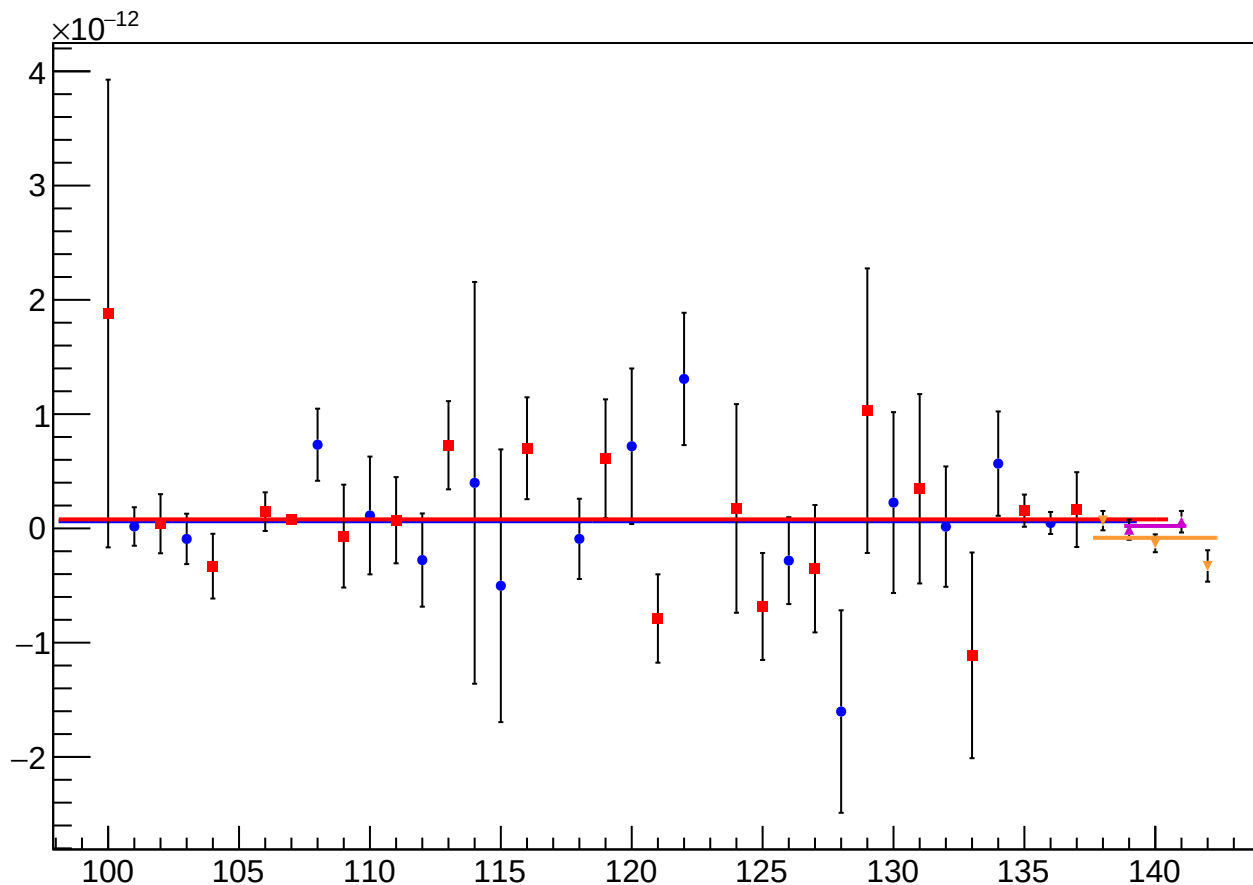
Right: 4196.010+/-0.801 χ^2 /NDF: 1683524.5/34

In: 4365.659+/-1.049 χ^2 /NDF: 515441.0/17

Out: 3964.765+/-0.944 χ^2 /NDF: 1171913.8/21

All: 4144.264+/-0.702 χ^2 /NDF: 1768068.4/39

asym_atl1r2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 6.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 20.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.3/1

Left: -0.000+/-0.000 χ^2/NDF : 8.6/4

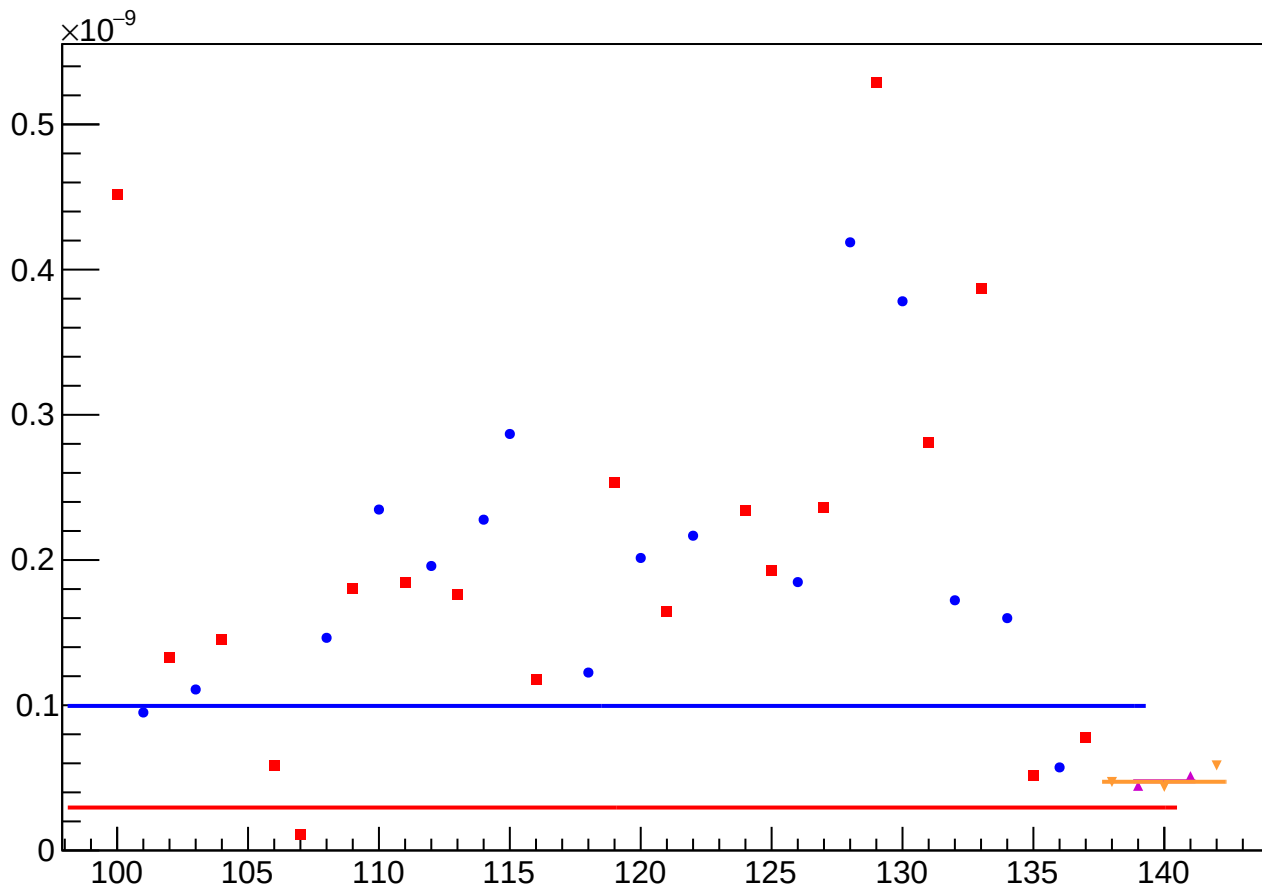
Right: 0.000+/-0.000 χ^2/NDF : 37.5/34

In: 0.000+/-0.000 χ^2/NDF : 17.9/17

Out: 0.000+/-0.000 χ^2/NDF : 33.4/21

All: 0.000+/-0.000 χ^2/NDF : 51.3/39

asym_atl1r2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1562904.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 17446.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4363474.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 5303.6/1

Left: 0.000+/-0.000 χ^2/NDF : 22784.6/4

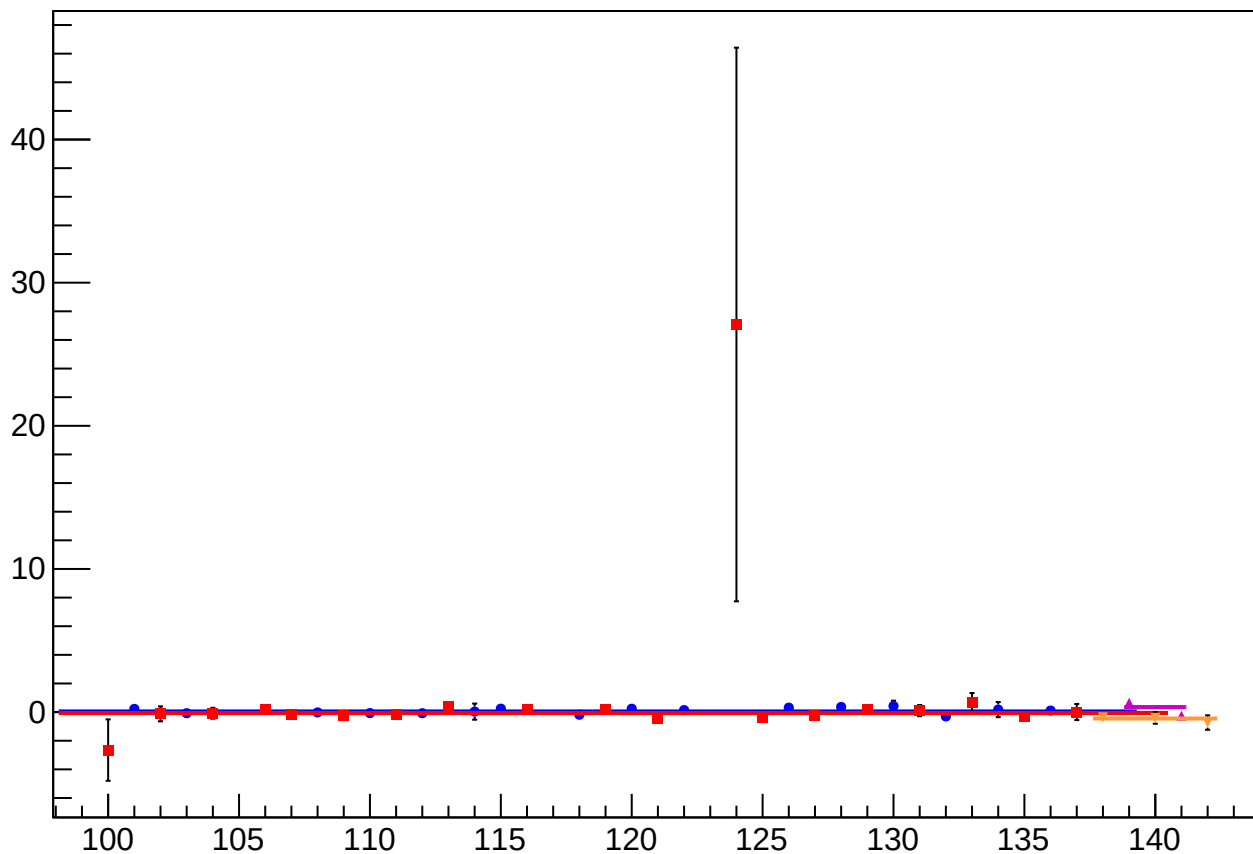
Right: 0.000+/-0.000 χ^2/NDF : 7631581.8/34

In: 0.000+/-0.000 χ^2/NDF : 2180105.7/17

Out: 0.000+/-0.000 χ^2/NDF : 4541489.5/21

All: 0.000+/-0.000 χ^2/NDF : 7669411.1/39

asym_atl1r2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.048 $\pm$ 0.066 χ^2 /NDF: 7.6/15

Left Out: -0.448 $\pm$ 0.222 χ^2 /NDF:0.4/2

Right Out: -0.061 $\pm$ 0.064 χ^2 /NDF: 18.4/18

Left In: 0.354 $\pm$ 0.196 χ^2 /NDF:4.7/1

Left: 0.003 $\pm$ 0.147 χ^2 /NDF: 12.4/4

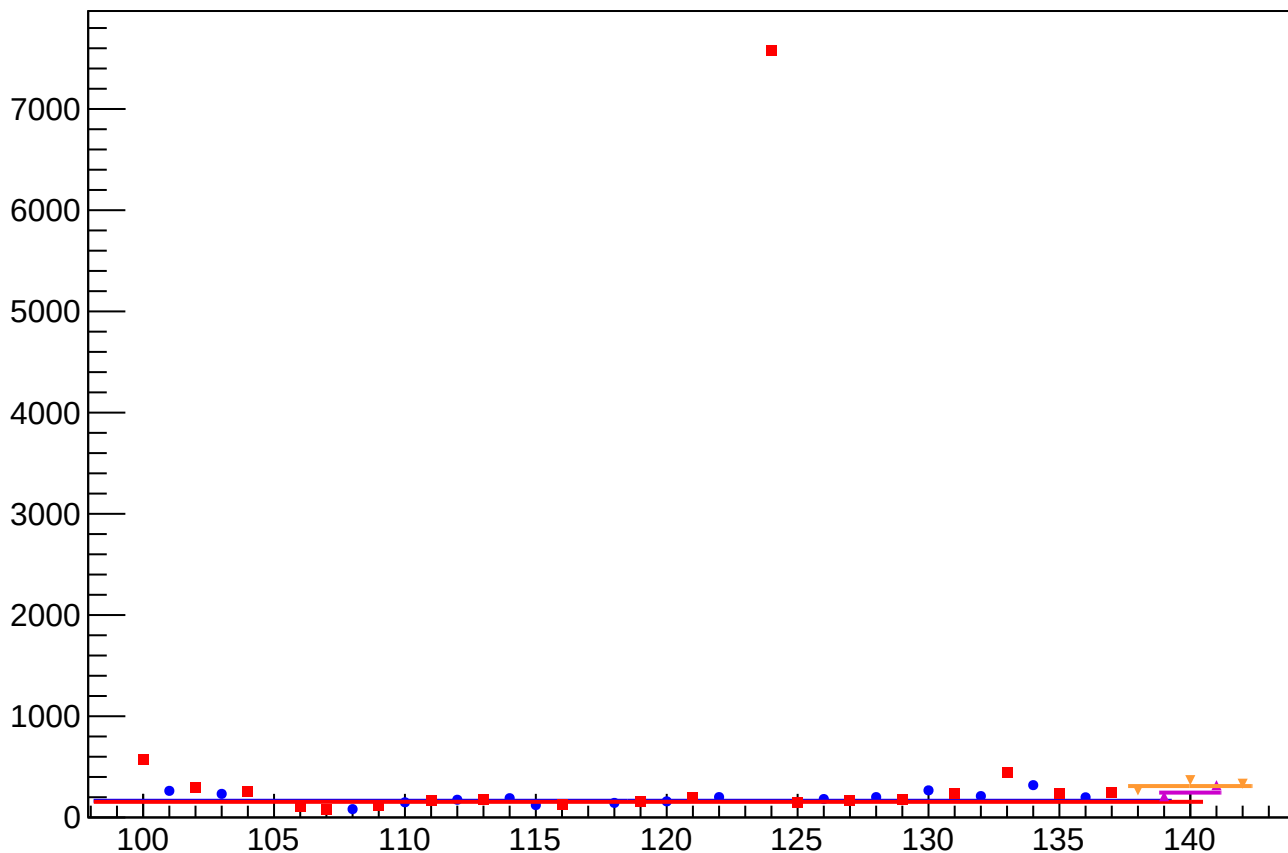
Right: -0.008 $\pm$ 0.046 χ^2 /NDF: 27.4/34

In: 0.080 $\pm$ 0.063 χ^2 /NDF:14.5/17

Out: -0.091 $\pm$ 0.062 χ^2 /NDF:21.6/21

All: -0.007 $\pm$ 0.044 χ^2 /NDF: 39.8/39

asym_atl1r2_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 164.862 $\pm$ 0.047 χ^2 /NDF: 1474718.1/15

Left Out: 310.175 $\pm$ 0.157 χ^2 /NDF:83579.8/2

Right Out: 154.388 $\pm$ 0.046 χ^2 /NDF: 1921322.6/18

Left In: 245.538 $\pm$ 0.139 χ^2 /NDF:138754.4/1

Left: 273.833 $\pm$ 0.104 χ^2 /NDF: 317666.4/4

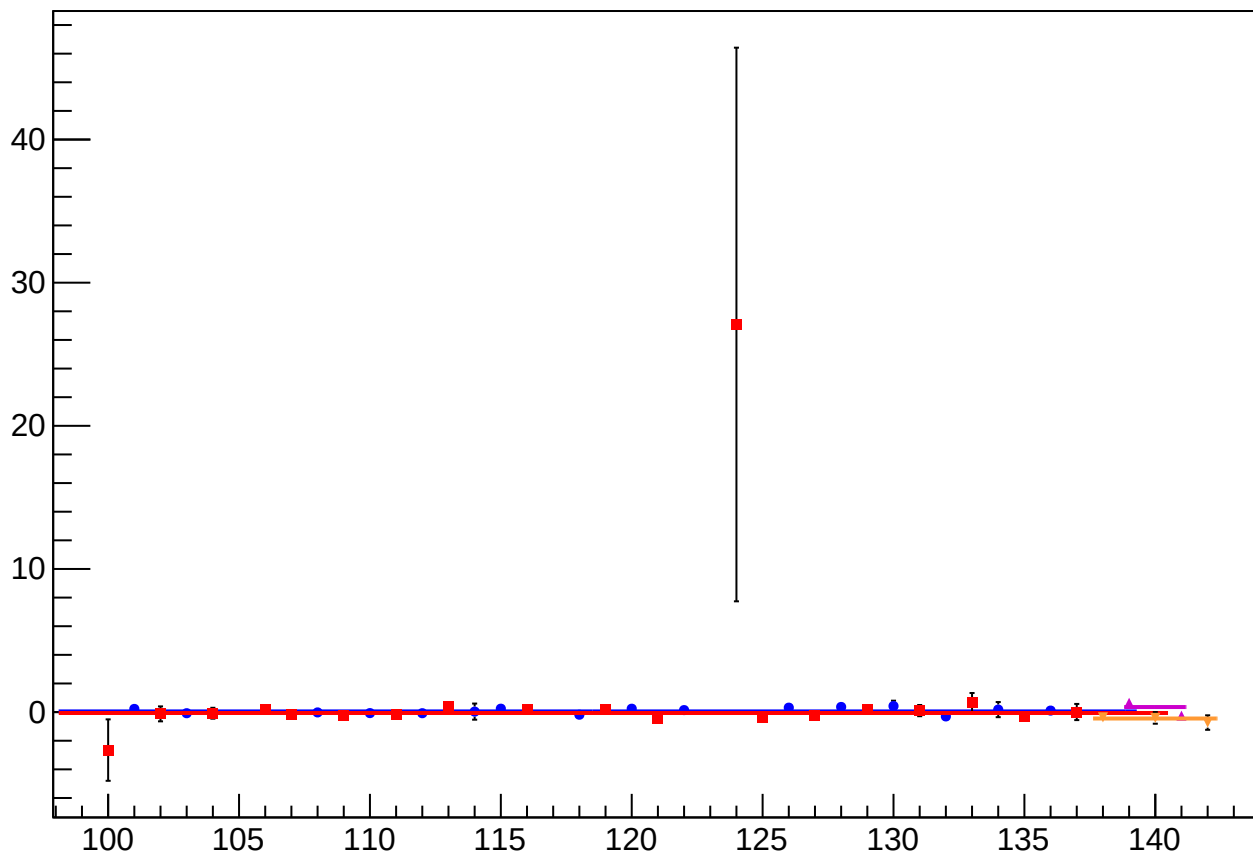
Right: 159.465 $\pm$ 0.033 χ^2 /NDF: 3421679.3/34

In: 173.179 $\pm$ 0.044 χ^2 /NDF:1917772.0/17

Out: 166.482 $\pm$ 0.044 χ^2 /NDF:2913387.4/21

All: 169.775 $\pm$ 0.031 χ^2 /NDF: 4842685.7/39

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.048 $\pm$ 0.066 χ^2 /NDF: 7.6/15

Left Out: -0.448 $\pm$ 0.222 χ^2 /NDF:0.4/2

Right Out: -0.061 $\pm$ 0.064 χ^2 /NDF: 18.4/18

Left In: 0.354 $\pm$ 0.196 χ^2 /NDF:4.7/1

Left: 0.003 $\pm$ 0.147 χ^2 /NDF: 12.4/4

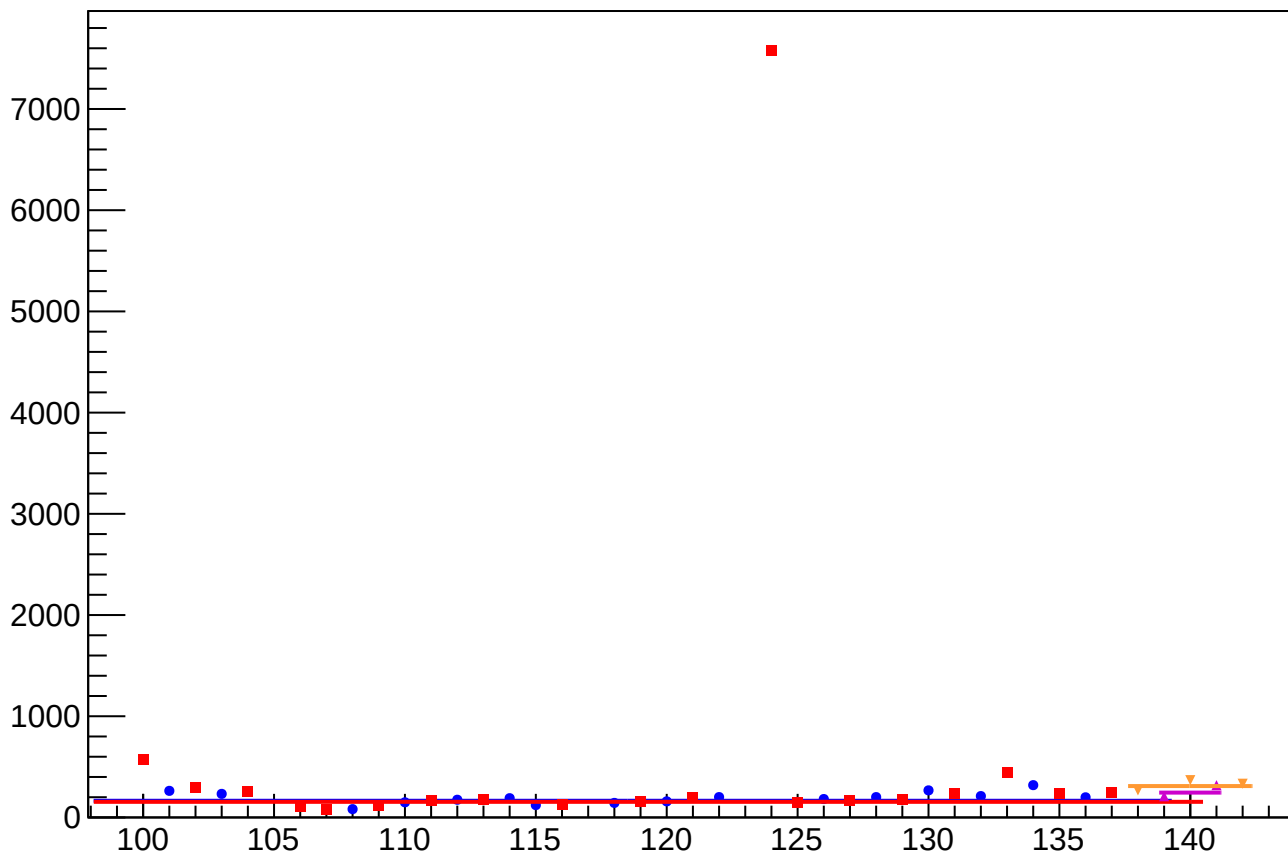
Right: -0.008 $\pm$ 0.046 χ^2 /NDF: 27.4/34

In: 0.080 $\pm$ 0.063 χ^2 /NDF:14.5/17

Out: -0.091 $\pm$ 0.062 χ^2 /NDF:21.6/21

All: -0.007 $\pm$ 0.044 χ^2 /NDF: 39.8/39

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 164.862+/-0.047 χ^2/NDF : 1474718.1/15

Left Out: 310.175+/-0.157 χ^2/NDF : 83579.8/2

Right Out: 154.388+/-0.046 χ^2/NDF : 1921322.6/18

Left In: 245.538+/-0.139 χ^2/NDF : 138754.4/1

Left: 273.833+/-0.104 χ^2/NDF : 317666.4/4

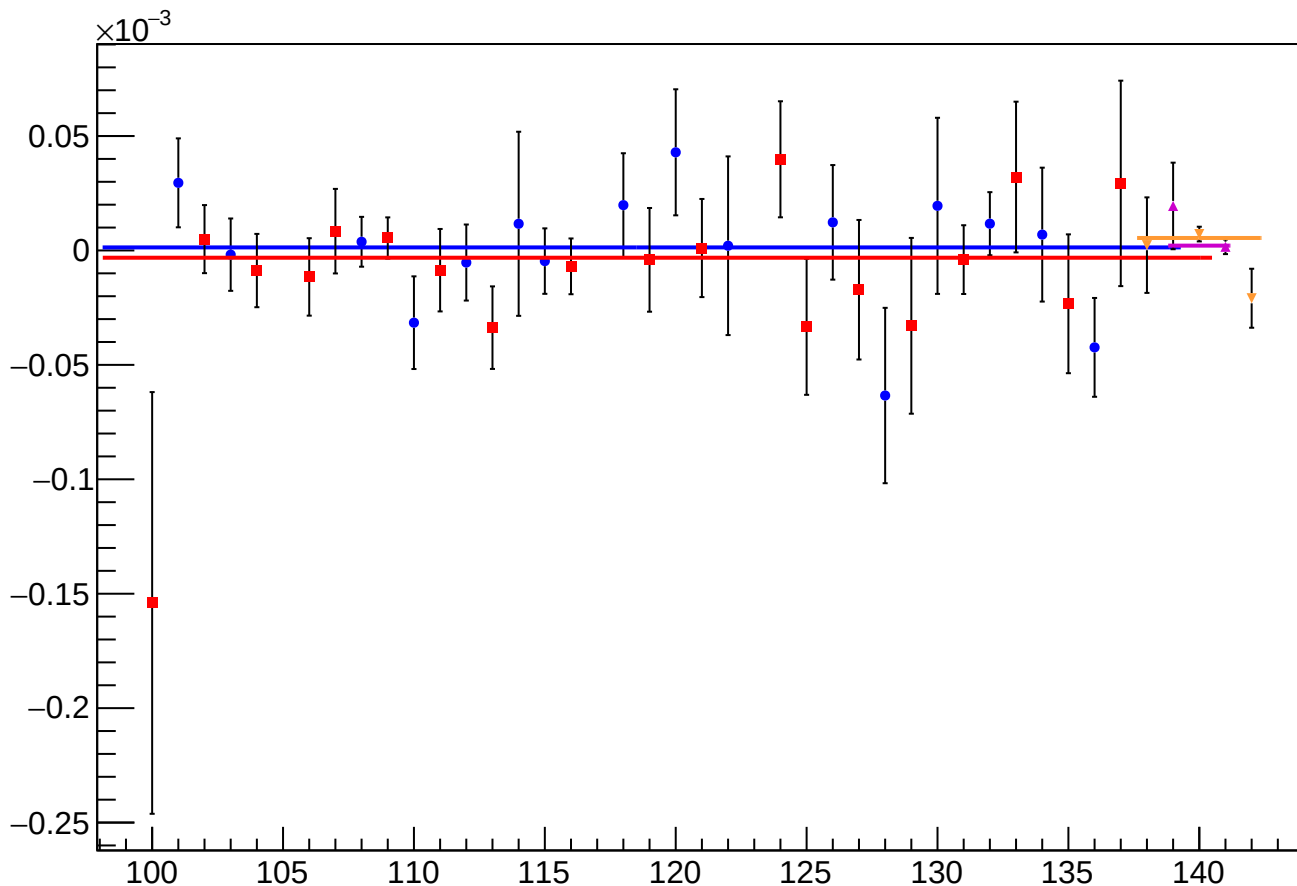
Right: 159.465+/-0.033 χ^2/NDF : 3421679.3/34

In: 173.179+/-0.044 χ^2/NDF : 1917772.0/17

Out: 166.482+/-0.044 χ^2/NDF : 2913387.4/21

All: 169.775+/-0.031 χ^2/NDF : 4842685.7/39

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 16.1/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 4.5/2$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 14.6/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.9/1$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 5.9/4$

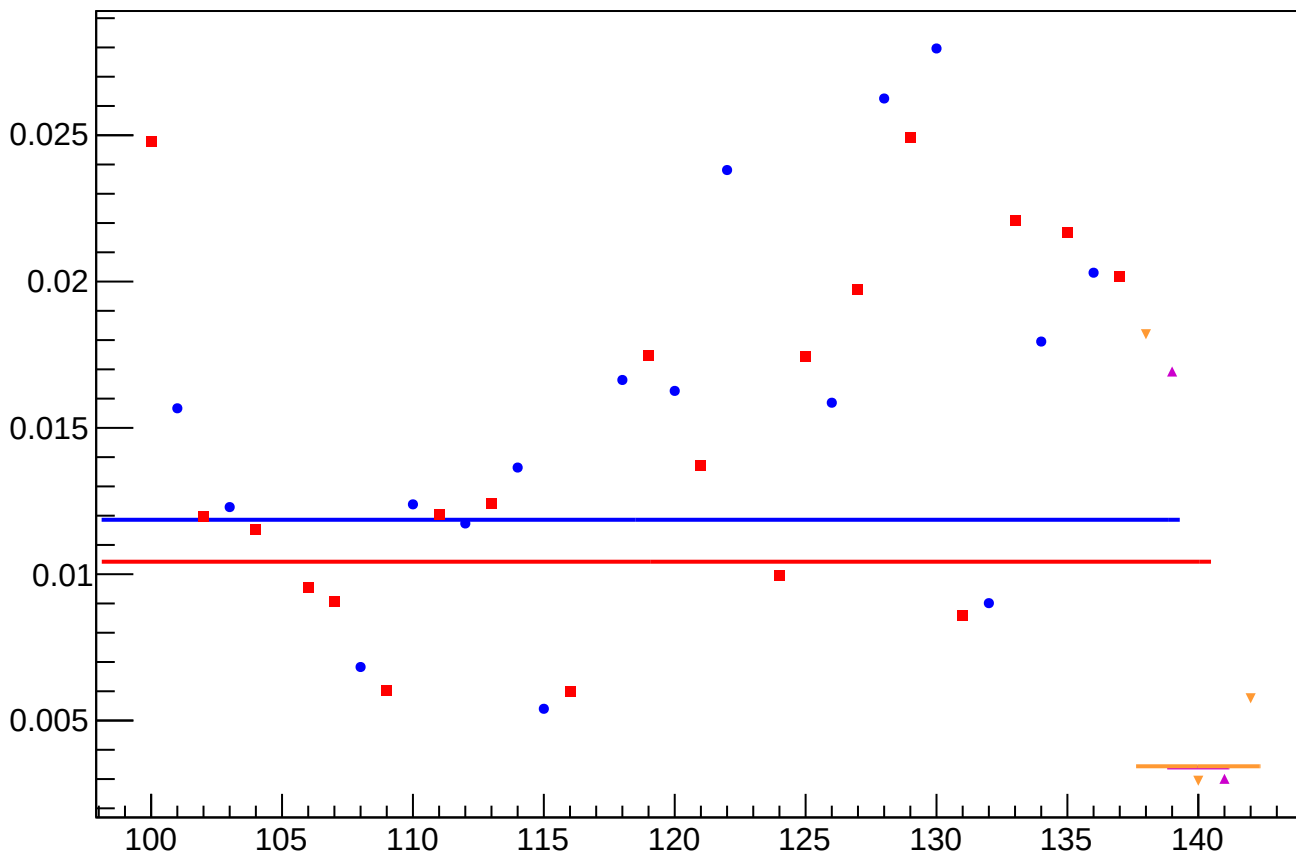
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 31.2/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 17.0/17$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 21.8/21$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 38.8/39$

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 2407192.9/15

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:1112704.7/2

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 2355101.8/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:1052547.9/1

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 2165412.1/4

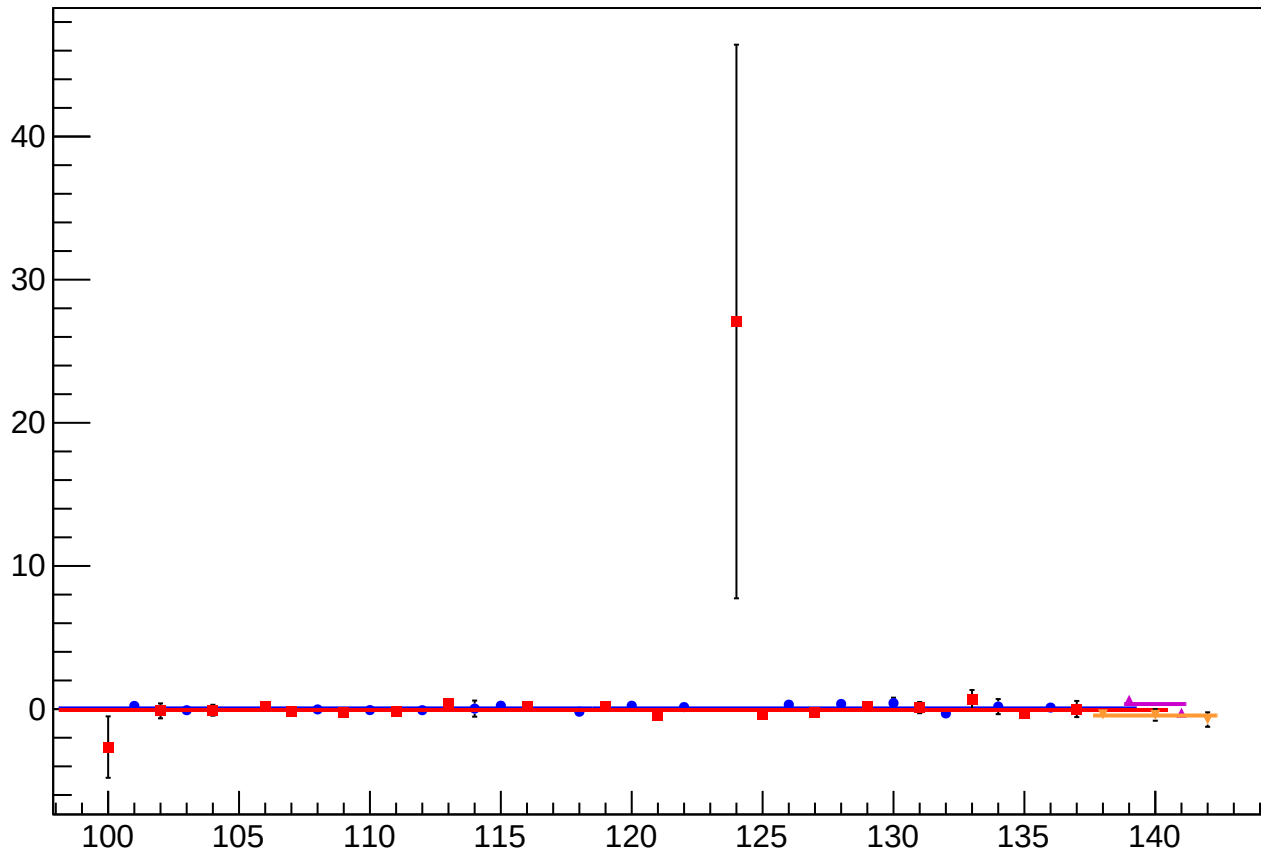
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 4860752.3/34

In: 0.006 $\pm$ 0.000 χ^2 /NDF:7705416.8/17

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:7026735.0/21

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 14732474.6/39

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.048 $\pm$ 0.066 χ^2 /NDF: 7.6/15

Left Out: -0.448 $\pm$ 0.222 χ^2 /NDF:0.4/2

Right Out: -0.061 $\pm$ 0.064 χ^2 /NDF: 18.4/18

Left In: 0.354 $\pm$ 0.196 χ^2 /NDF:4.7/1

Left: 0.003 $\pm$ 0.147 χ^2 /NDF: 12.4/4

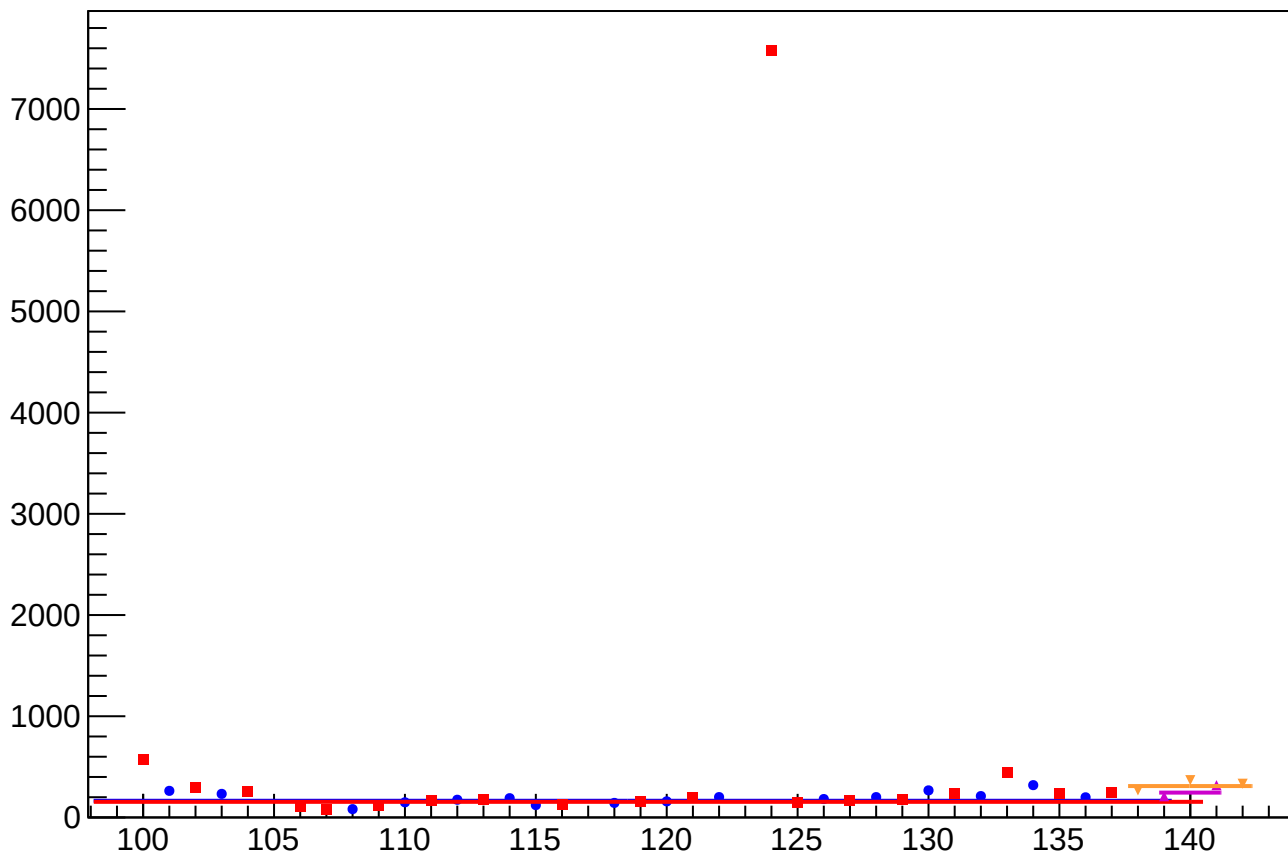
Right: -0.008 $\pm$ 0.046 χ^2 /NDF: 27.4/34

In: 0.080 $\pm$ 0.063 χ^2 /NDF:14.5/17

Out: -0.091 $\pm$ 0.062 χ^2 /NDF:21.6/21

All: -0.007 $\pm$ 0.044 χ^2 /NDF: 39.8/39

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 164.862+/-0.047 χ^2/NDF : 1474692.6/15

Left Out: 310.178+/-0.157 χ^2/NDF : 83568.0/2

Right Out: 154.388+/-0.046 χ^2/NDF : 1921346.3/18

Left In: 245.540+/-0.139 χ^2/NDF : 138743.7/1

Left: 273.835+/-0.104 χ^2/NDF : 317645.3/4

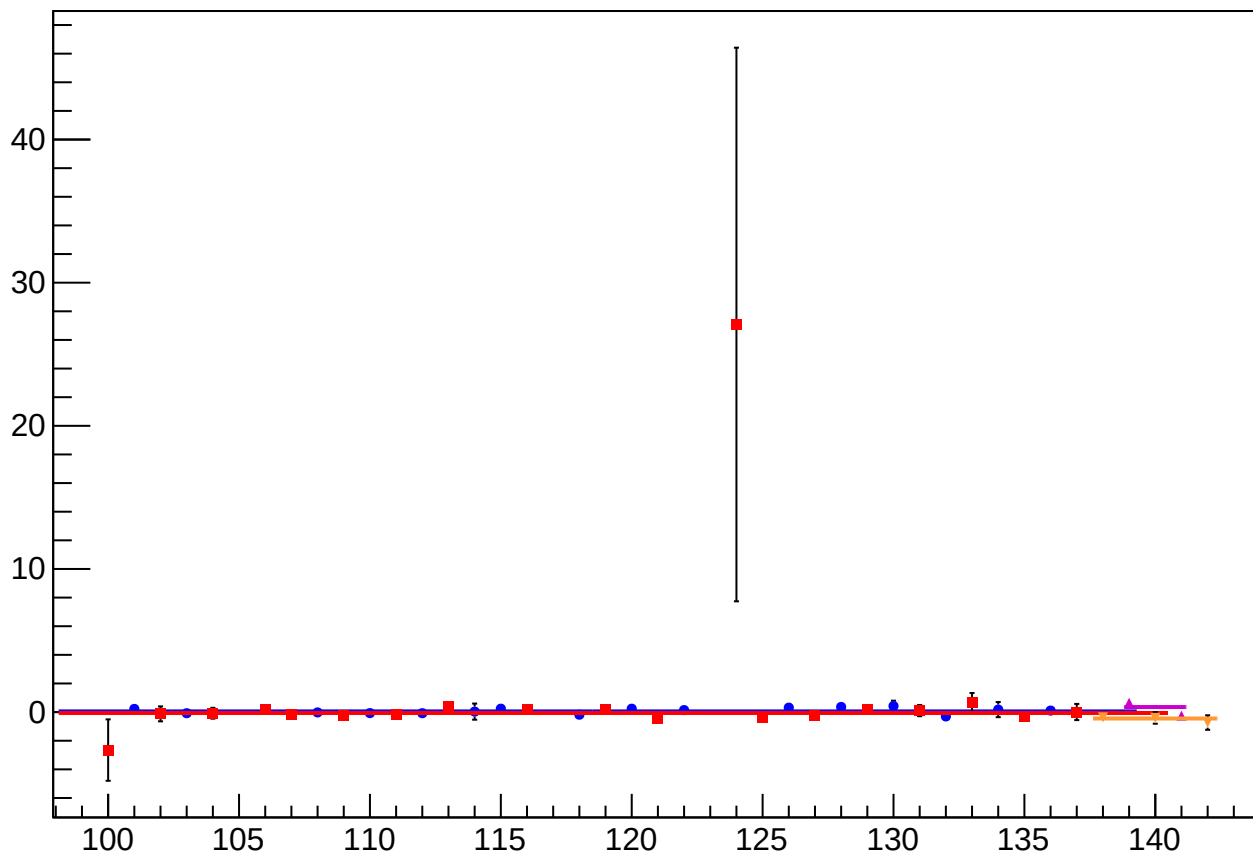
Right: 159.464+/-0.033 χ^2/NDF : 3421678.1/34

In: 173.179+/-0.044 χ^2/NDF : 1917750.0/17

Out: 166.482+/-0.044 χ^2/NDF : 2913426.9/21

All: 169.775+/-0.031 χ^2/NDF : 4842703.6/39

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.048 ± 0.066 $\chi^2/\text{NDF}: 7.6/15$

Left Out: -0.448 ± 0.222 $\chi^2/\text{NDF}: 0.4/2$

Right Out: -0.061 ± 0.064 $\chi^2/\text{NDF}: 18.4/18$

Left In: 0.354 ± 0.196 $\chi^2/\text{NDF}: 4.7/1$

Left: 0.003 ± 0.147 $\chi^2/\text{NDF}: 12.4/4$

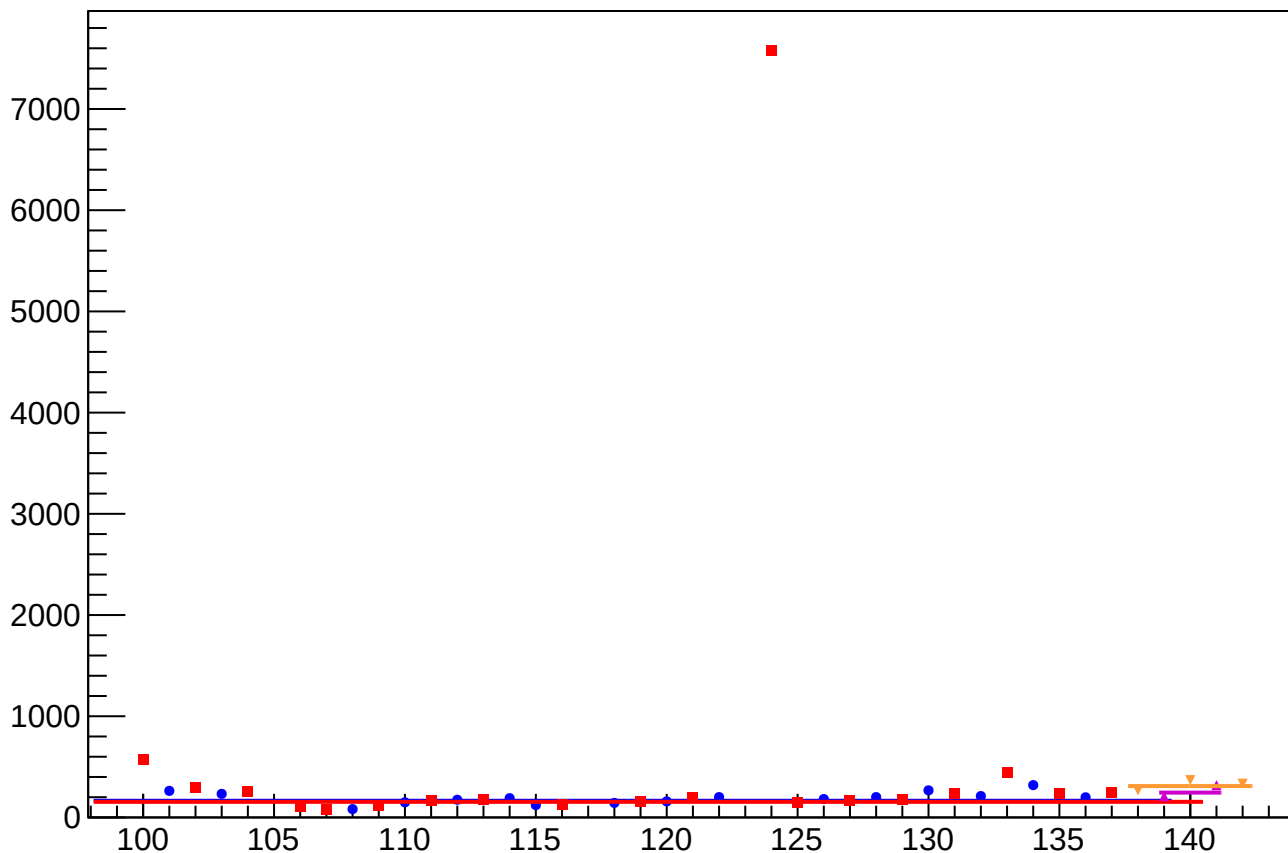
Right: -0.008 ± 0.046 $\chi^2/\text{NDF}: 27.4/34$

In: 0.080 ± 0.063 $\chi^2/\text{NDF}: 14.5/17$

Out: -0.091 ± 0.062 $\chi^2/\text{NDF}: 21.6/21$

All: -0.007 ± 0.044 $\chi^2/\text{NDF}: 39.8/39$

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 164.862+/-0.047 χ^2/NDF : 1474692.6/15

Left Out: 310.178+/-0.157 χ^2/NDF :83568.0/2

Right Out: 154.388+/-0.046 χ^2/NDF : 1921346.3/18

Left In: 245.540+/-0.139 χ^2/NDF :138743.7/1

Left: 273.835+/-0.104 χ^2/NDF : 317645.3/4

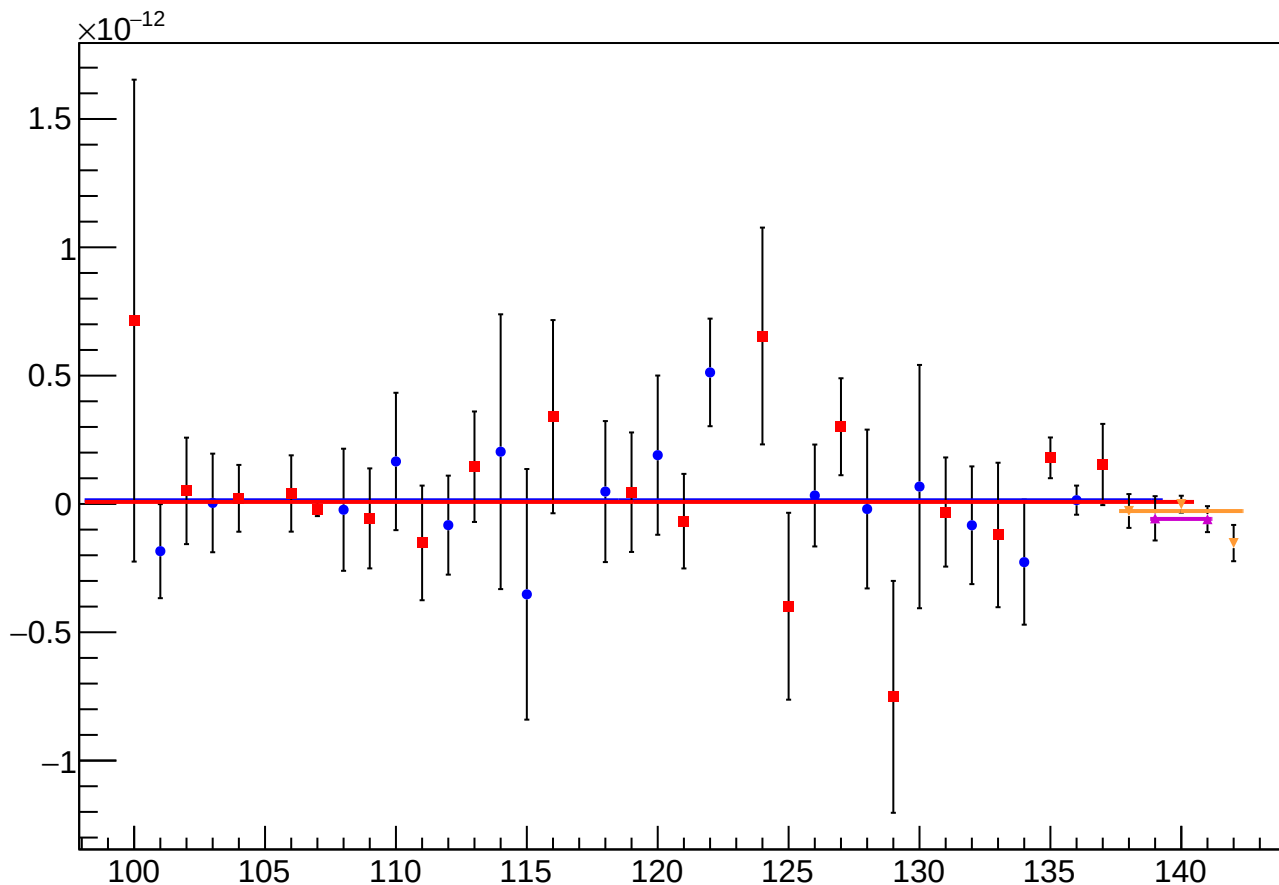
Right: 159.464+/-0.033 χ^2/NDF : 3421678.1/34

In: 173.179+/-0.044 χ^2/NDF :1917750.0/17

Out: 166.482+/-0.044 χ^2/NDF :2913426.9/21

All: 169.775+/-0.031 χ^2/NDF : 4842703.6/39

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 4.1/4

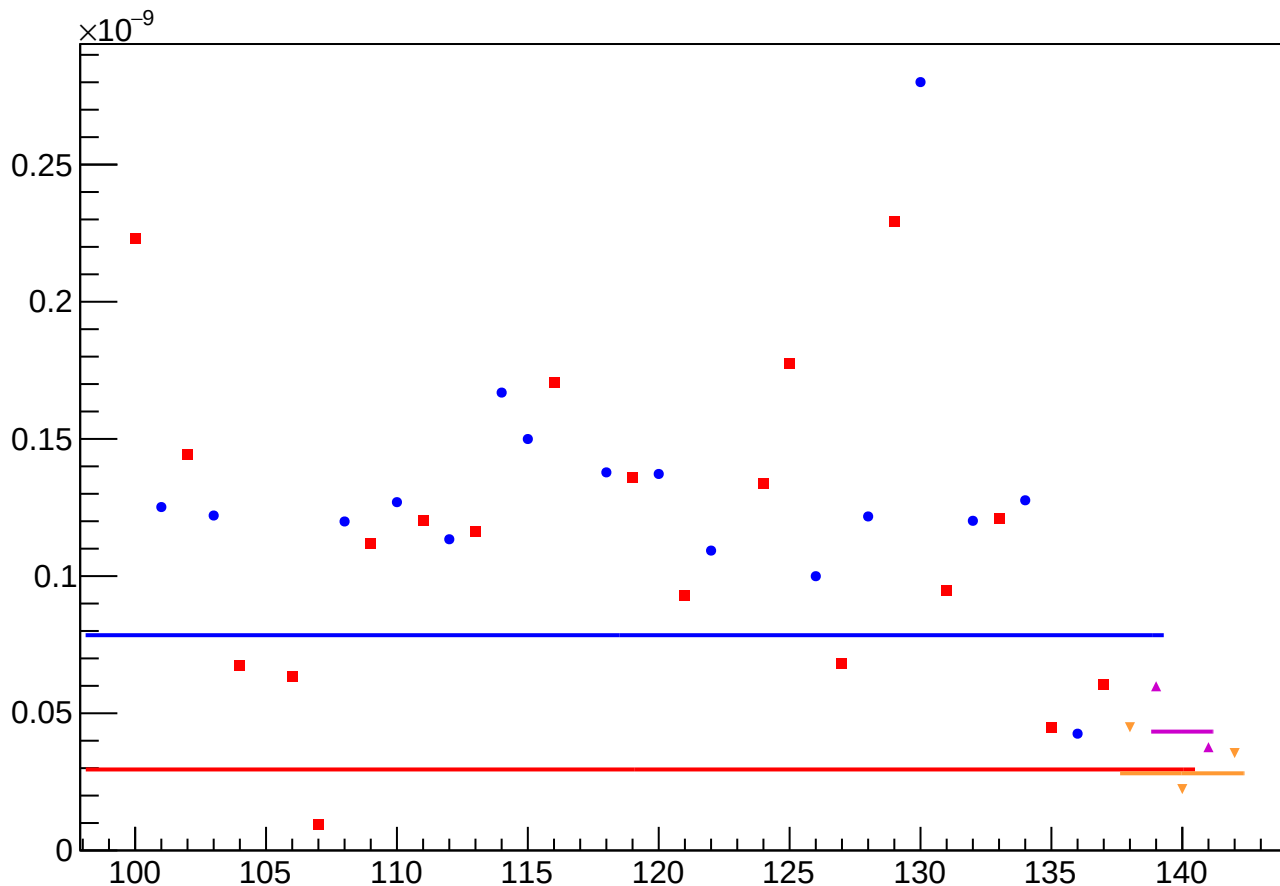
Right: 0.000+/-0.000 χ^2/NDF : 28.0/34

In: -0.000+/-0.000 χ^2/NDF : 11.1/17

Out: -0.000+/-0.000 χ^2/NDF : 23.1/21

All: -0.000+/-0.000 χ^2/NDF : 34.4/39

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2103056.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 213056.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 5487361.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 98448.9/1

Left: 0.000+/-0.000 χ^2/NDF : 486539.0/4

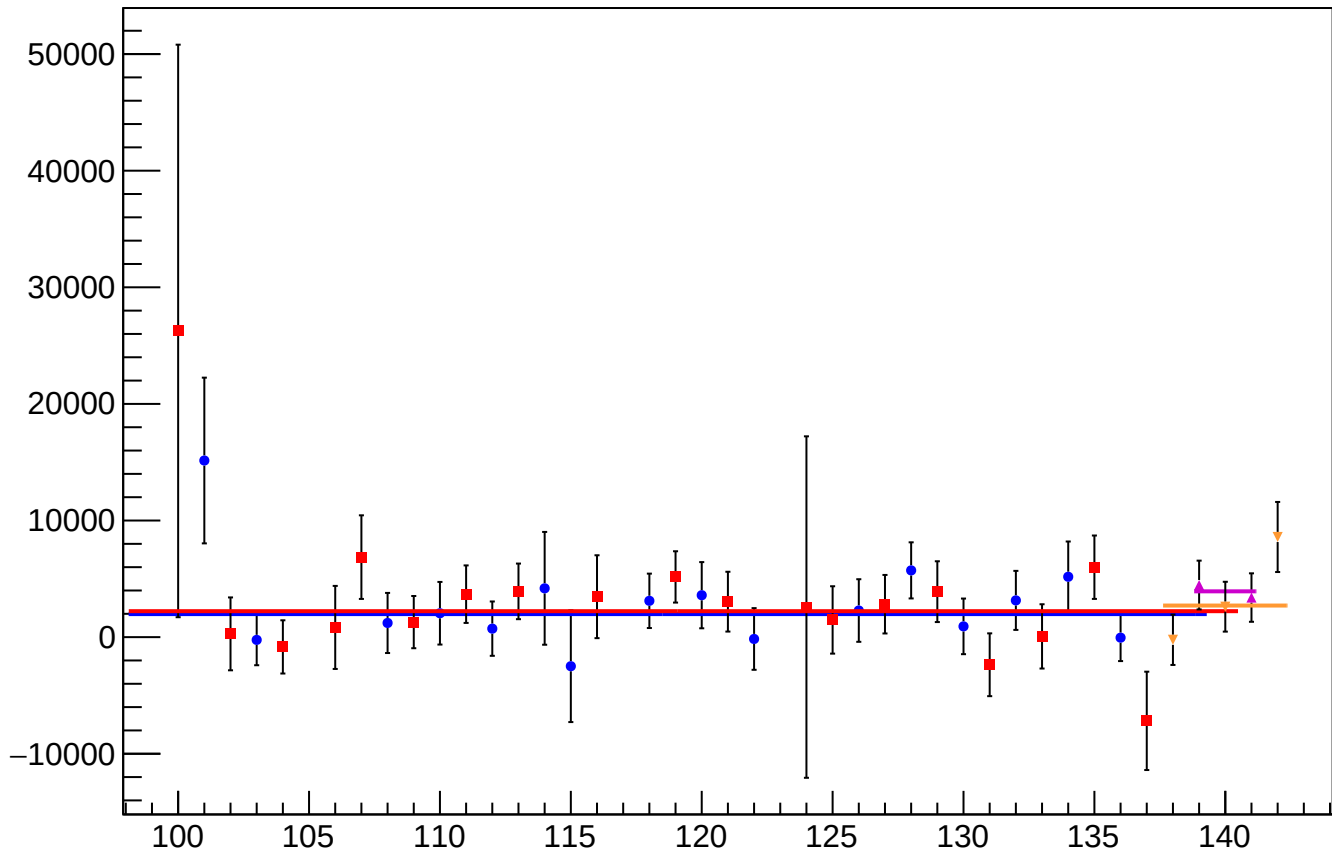
Right: 0.000+/-0.000 χ^2/NDF : 9651358.8/34

In: 0.000+/-0.000 χ^2/NDF : 2868440.5/17

Out: 0.000+/-0.000 χ^2/NDF : 5703523.6/21

All: 0.000+/-0.000 χ^2/NDF : 10282797.6/39

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1976.299+/-667.710 χ^2/NDF : 12.1/15

Left Out: 2709.091+/-1355.559 χ^2/NDF : 5.7/2

Right Out: 2226.171+/-656.286 χ^2/NDF : 19.0/18

Left In: 3927.864+/-1473.880 χ^2/NDF : 0.1/1

Left: 3267.600+/-997.737 χ^2/NDF : 6.2/4

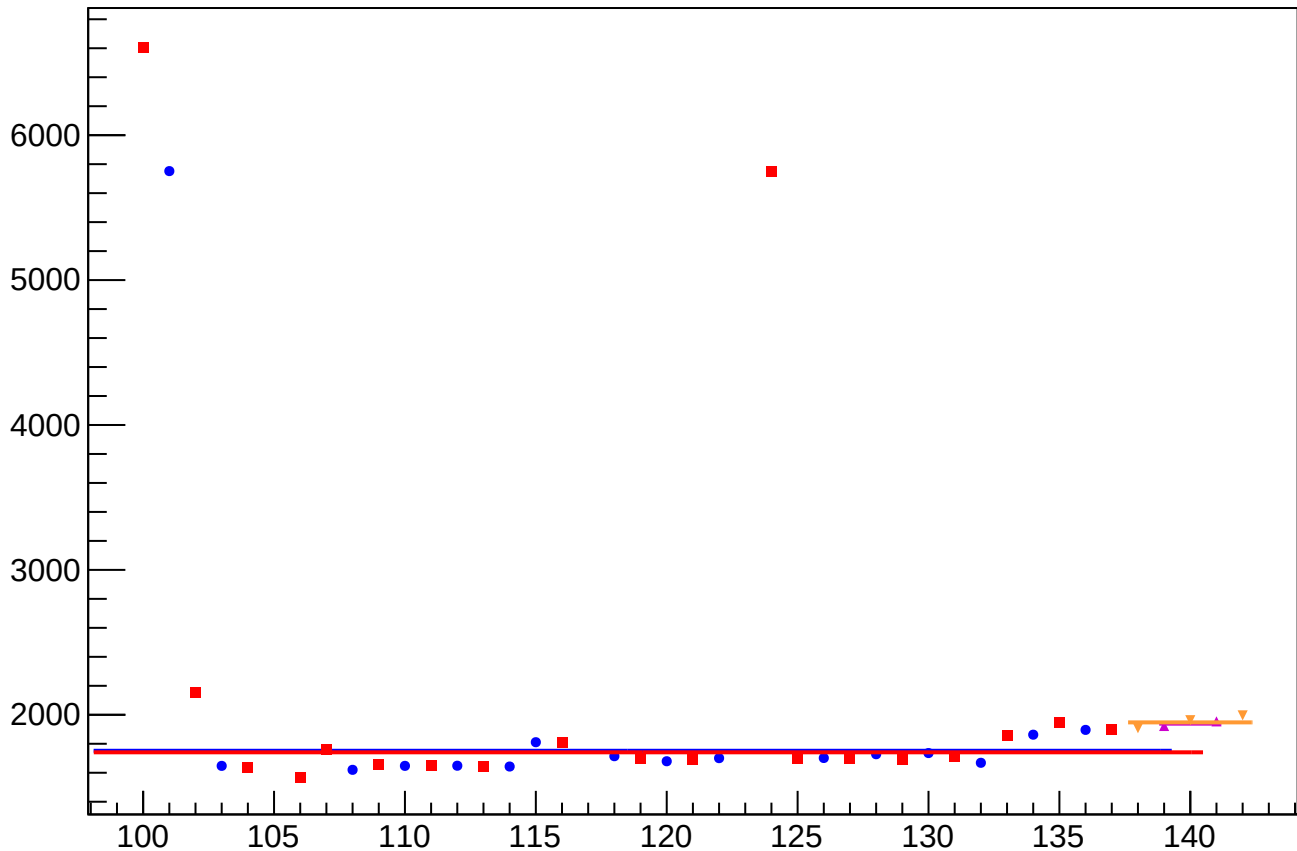
Right: 2103.390+/-468.051 χ^2/NDF : 31.2/34

In: 2308.623+/-608.208 χ^2/NDF : 13.7/17

Out: 2317.871+/-590.699 χ^2/NDF : 24.8/21

All: 2313.382+/-423.742 χ^2/NDF : 38.5/39

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1751.607 $\pm$ 0.472 χ^2 /NDF: 670651.4/15

Left Out: 1947.586 $\pm$ 0.959 χ^2 /NDF:1312.3/2

Right Out: 1741.052 $\pm$ 0.461 χ^2 /NDF: 304655.0/18

Left In: 1938.811 $\pm$ 1.042 χ^2 /NDF:232.7/1

Left: 1943.565 $\pm$ 0.706 χ^2 /NDF: 1583.5/4

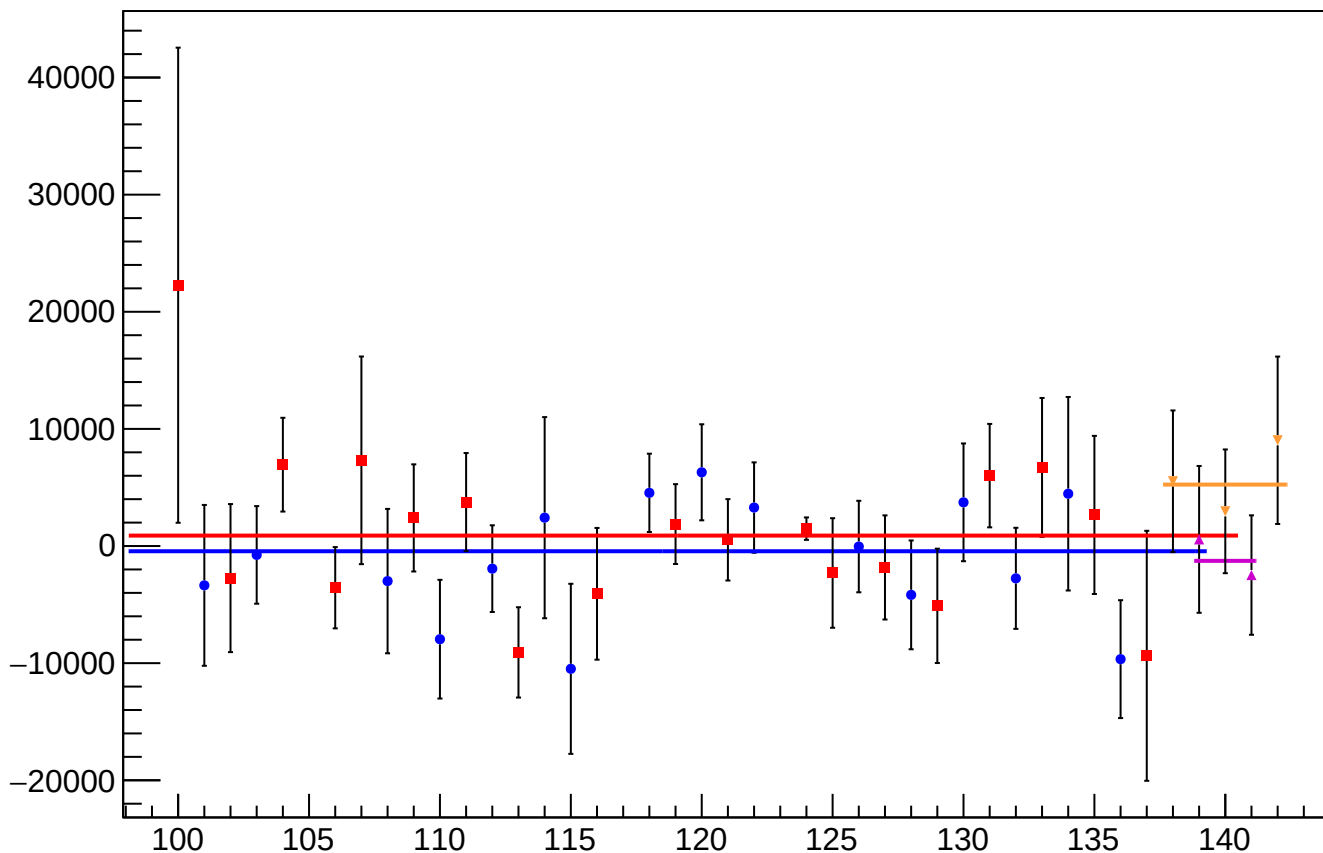
Right: 1746.199 $\pm$ 0.330 χ^2 /NDF: 975562.4/34

In: 1783.485 $\pm$ 0.430 χ^2 /NDF:697655.3/17

Out: 1779.803 $\pm$ 0.415 χ^2 /NDF:343683.9/21

All: 1781.579 $\pm$ 0.299 χ^2 /NDF: 1041377.1/39

asym_atr1l2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -444.273+/-1174.448 χ^2/NDF : 15.9/15

Left Out: 5246.530+/-3475.923 χ^2/NDF : 0.5/2

Right Out: 892.237+/-725.737 χ^2/NDF : 20.1/18

Left In: -1265.437+/-3955.222 χ^2/NDF : 0.1/1

Left: 2408.820+/-2610.951 χ^2/NDF : 2.1/4

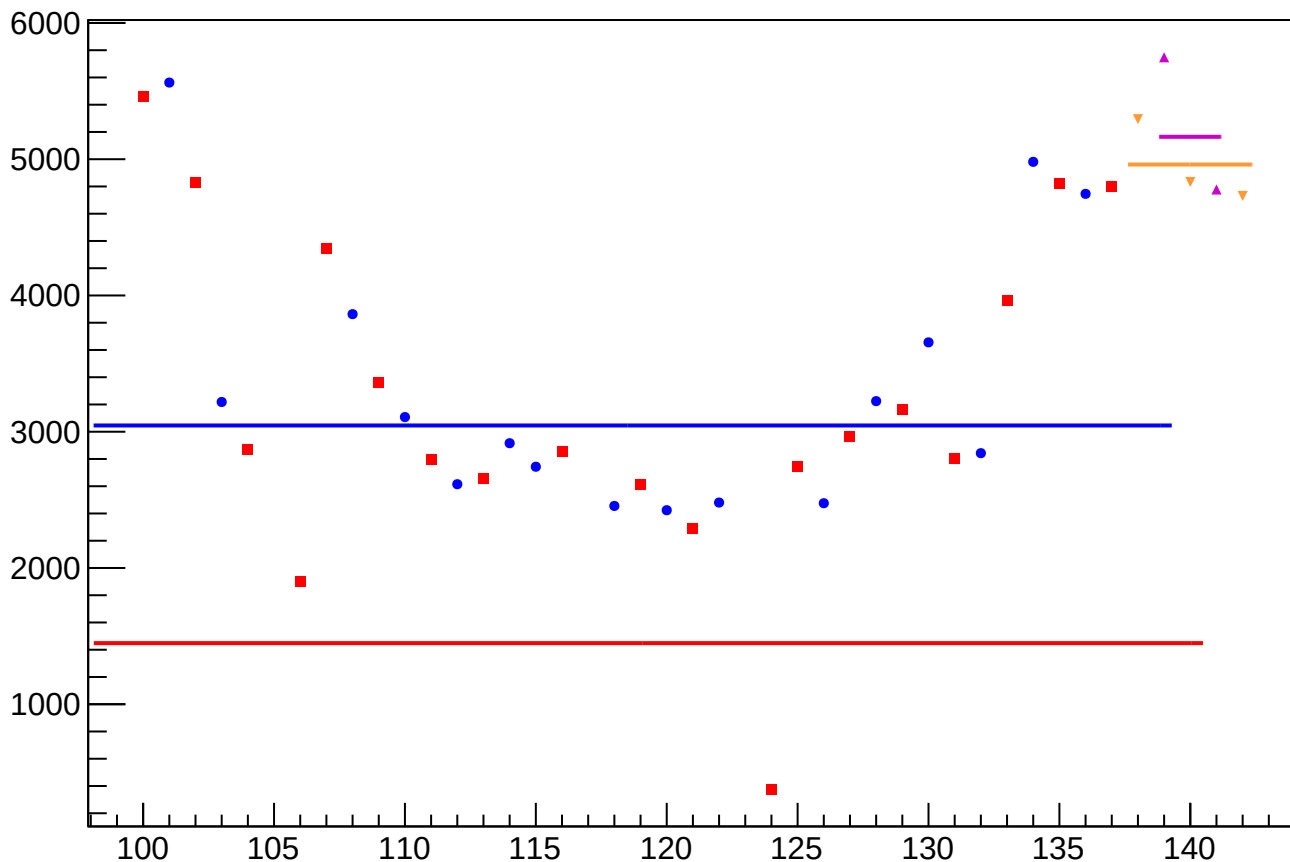
Right: 522.917+/-617.375 χ^2/NDF : 36.9/34

In: -510.810+/-1125.862 χ^2/NDF : 16.1/17

Out: 1074.125+/-710.417 χ^2/NDF : 22.0/21

All: 622.778+/-600.807 χ^2/NDF : 39.6/39

asym_atr1l2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 3045.917+/-0.830 χ^2/NDF : 907385.5/15

Left Out: 4960.928+/-2.458 χ^2/NDF : 9321.3/2

Right Out: 1448.519+/-0.513 χ^2/NDF : 6786925.8/18

Left In: 5164.333+/-2.797 χ^2/NDF : 28842.3/1

Left: 5049.566+/-1.846 χ^2/NDF : 41148.0/4

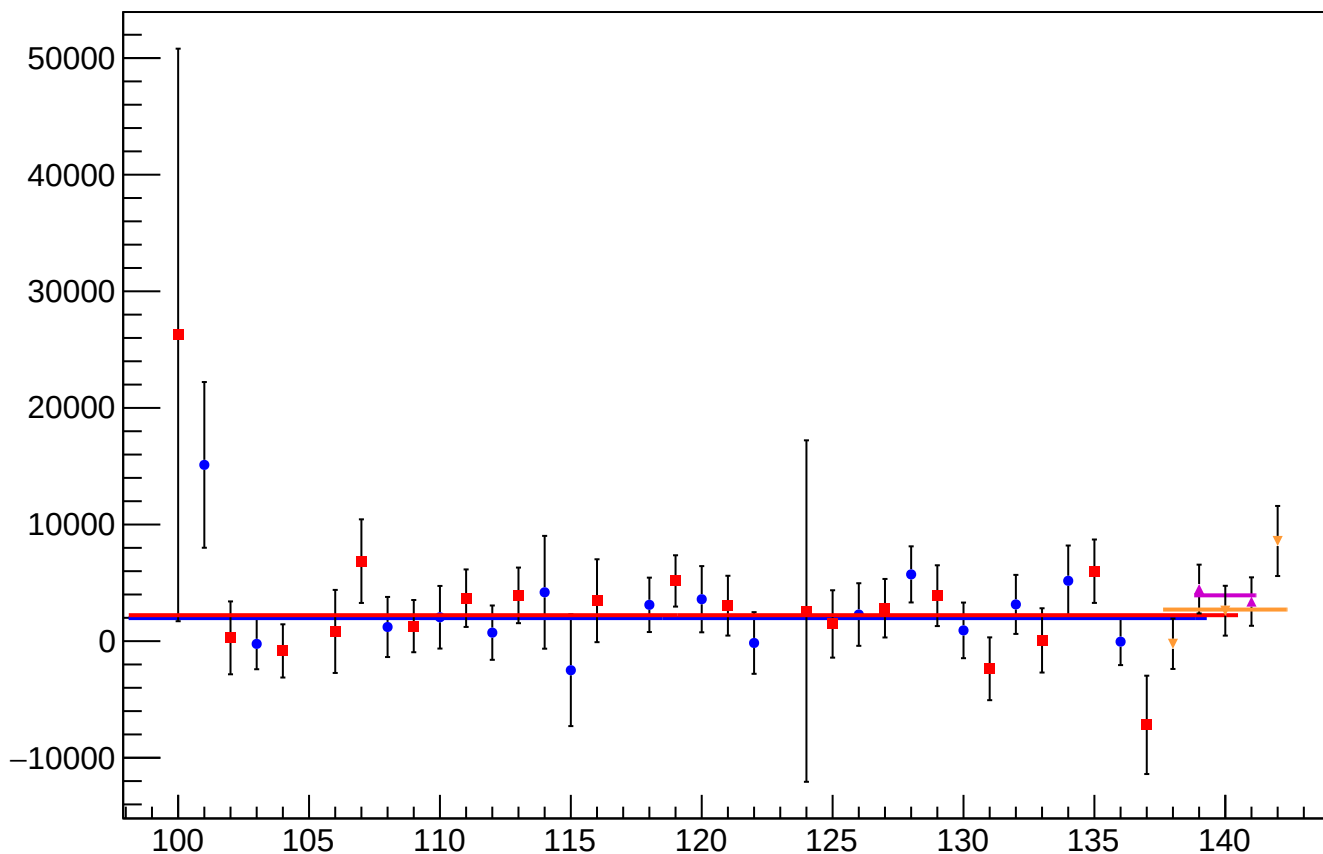
Right: 1889.931+/-0.437 χ^2/NDF : 10371803.4/34

In: 3217.566+/-0.796 χ^2/NDF : 1463473.8/17

Out: 1595.240+/-0.502 χ^2/NDF : 8753147.7/21

All: 2057.236+/-0.425 χ^2/NDF : 13186774.7/3

cor_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.946+/-667.710 χ^2/NDF : 12.1/15

Left Out: 2709.307+/-1355.559 χ^2/NDF : 5.7/2

Right Out: 2226.267+/-656.286 χ^2/NDF : 19.0/18

Left In: 3928.008+/-1473.880 χ^2/NDF : 0.1/1

Left: 3267.783+/-997.737 χ^2/NDF : 6.2/4

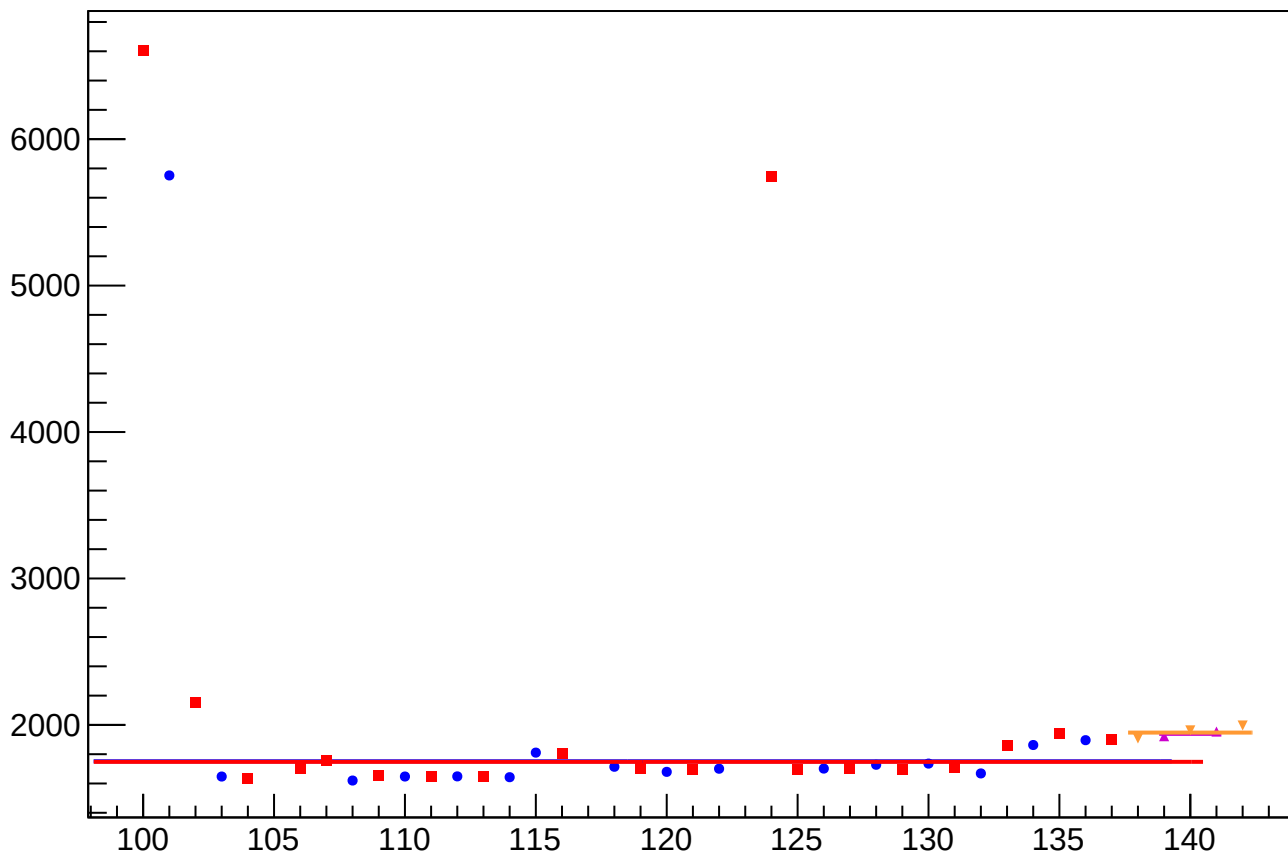
Right: 2103.266+/-468.051 χ^2/NDF : 31.1/34

In: 2308.355+/-608.208 χ^2/NDF : 13.7/17

Out: 2317.990+/-590.699 χ^2/NDF : 24.8/21

All: 2313.313+/-423.742 χ^2/NDF : 38.4/39

cor_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1751.606+/-0.472 χ^2/NDF : 670651.6/15

Left Out: 1947.586+/-0.959 χ^2/NDF : 1312.3/2

Right Out: 1747.786+/-0.462 χ^2/NDF : 297917.6/18

Left In: 1938.811+/-1.042 χ^2/NDF : 232.7/1

Left: 1943.565+/-0.706 χ^2/NDF : 1583.5/4

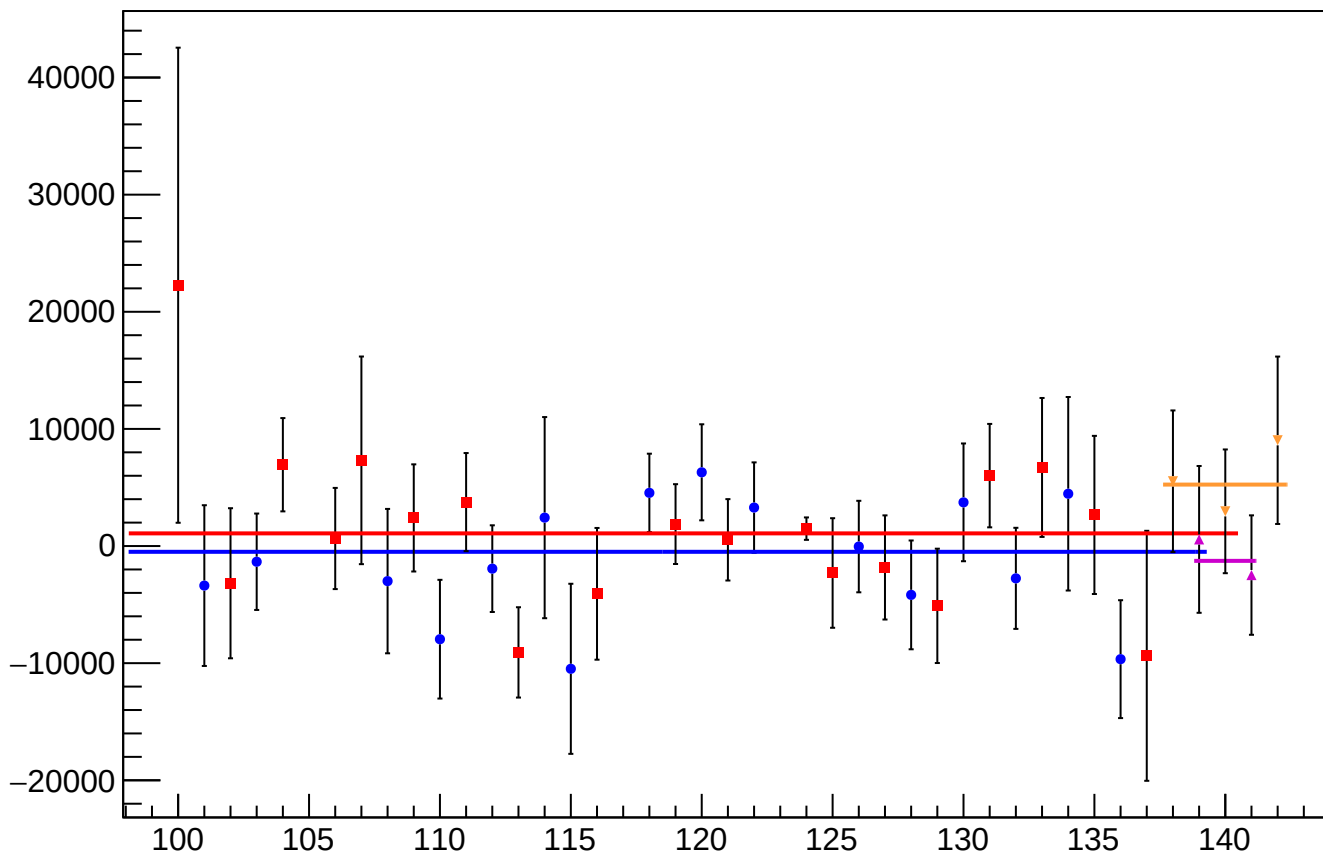
Right: 1749.656+/-0.330 χ^2/NDF : 968602.6/34

In: 1783.485+/-0.430 χ^2/NDF : 697655.6/17

Out: 1785.495+/-0.416 χ^2/NDF : 334478.8/21

All: 1784.522+/-0.299 χ^2/NDF : 1032145.6/39

asym_atr1l2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -492.916+/-1173.239 χ^2/NDF : 16.0/15

Left Out: 5246.752+/-3475.923 χ^2/NDF : 0.5/2

Right Out: 1080.924+/-731.458 χ^2/NDF : 18.5/18

Left In: -1265.611+/-3955.219 χ^2/NDF : 0.1/1

Left: 2408.867+/-2610.951 χ^2/NDF : 2.1/4

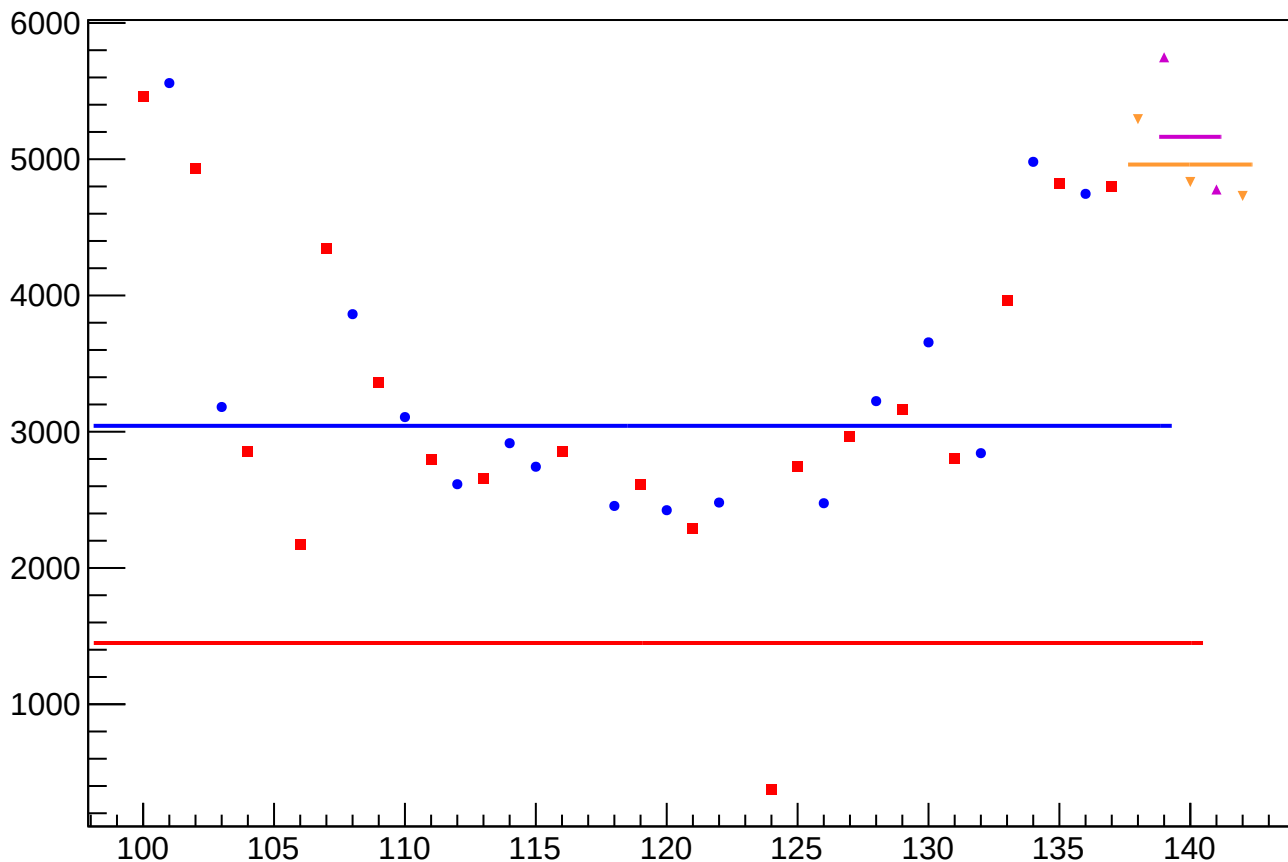
Right: 640.409+/-620.707 χ^2/NDF : 35.7/34

In: -555.407+/-1124.797 χ^2/NDF : 16.2/17

Out: 1257.577+/-715.781 χ^2/NDF : 20.3/21

All: 735.010+/-603.877 χ^2/NDF : 38.3/39

asym_atr1l2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 3043.270+/-0.830 χ^2/NDF : 905659.7/15

Left Out: 4960.928+/-2.458 χ^2/NDF :9320.8/2

Right Out: 1449.516+/-0.517 χ^2/NDF : 6825716.5/18

Left In: 5164.327+/-2.797 χ^2/NDF :28843.4/1

Left: 5049.563+/-1.846 χ^2/NDF : 41148.5/4

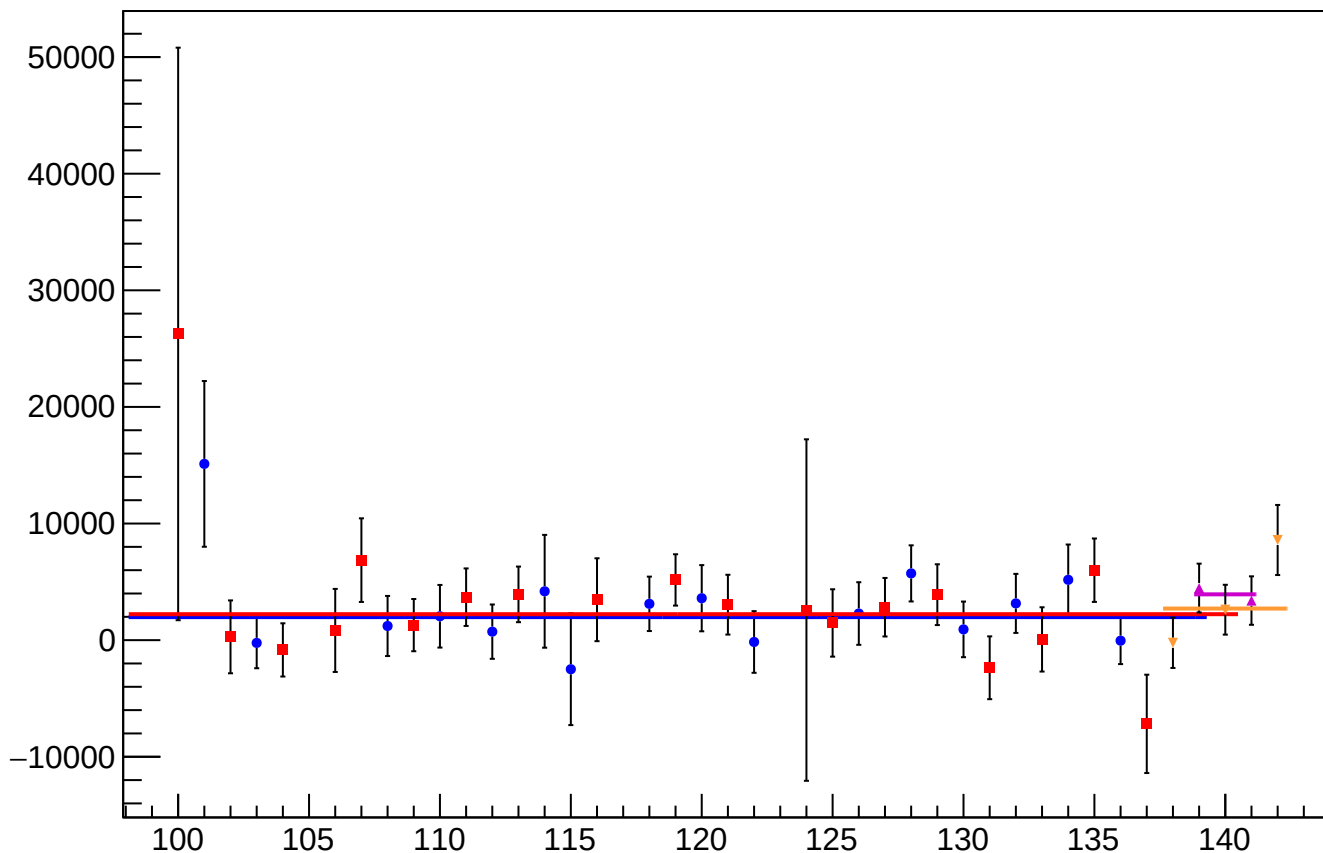
Right: 1895.604+/-0.439 χ^2/NDF : 10389001.0/34

In: 3214.808+/-0.795 χ^2/NDF :1463153.7/17

Out: 1598.418+/-0.506 χ^2/NDF :8789533.8/21

All: 2064.320+/-0.427 χ^2/NDF : 13192432.8/3

eigen_cor_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.946+/-667.710 χ^2/NDF : 12.1/15

Left Out: 2709.307+/-1355.559 χ^2/NDF : 5.7/2

Right Out: 2226.267+/-656.286 χ^2/NDF : 19.0/18

Left In: 3928.008+/-1473.880 χ^2/NDF : 0.1/1

Left: 3267.783+/-997.737 χ^2/NDF : 6.2/4

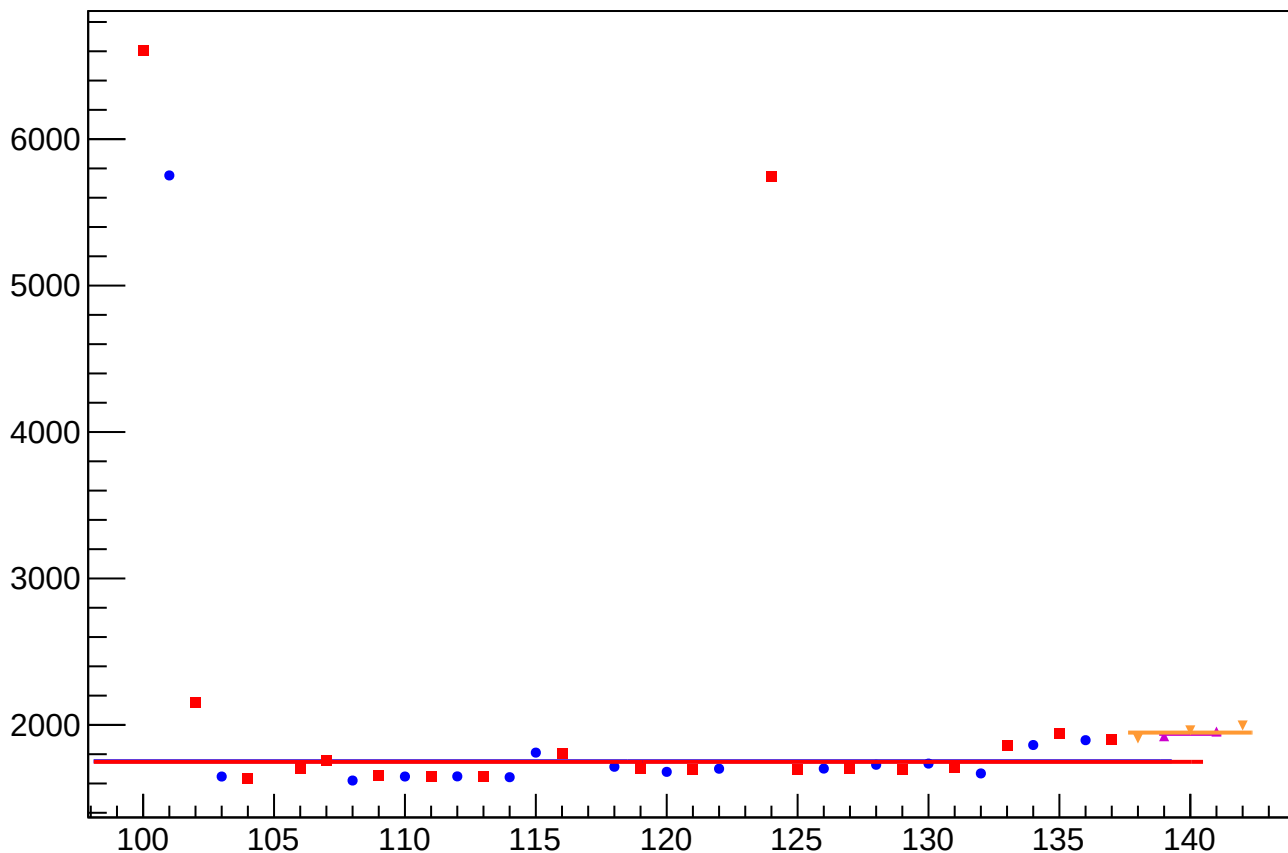
Right: 2103.266+/-468.051 χ^2/NDF : 31.1/34

In: 2308.355+/-608.208 χ^2/NDF : 13.7/17

Out: 2317.990+/-590.699 χ^2/NDF : 24.8/21

All: 2313.313+/-423.742 χ^2/NDF : 38.4/39

eigen_cor_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1751.606+/-0.472 χ^2/NDF : 670651.6/15

Left Out: 1947.586+/-0.959 χ^2/NDF : 1312.3/2

Right Out: 1747.786+/-0.462 χ^2/NDF : 297917.6/18

Left In: 1938.811+/-1.042 χ^2/NDF : 232.7/1

Left: 1943.565+/-0.706 χ^2/NDF : 1583.5/4

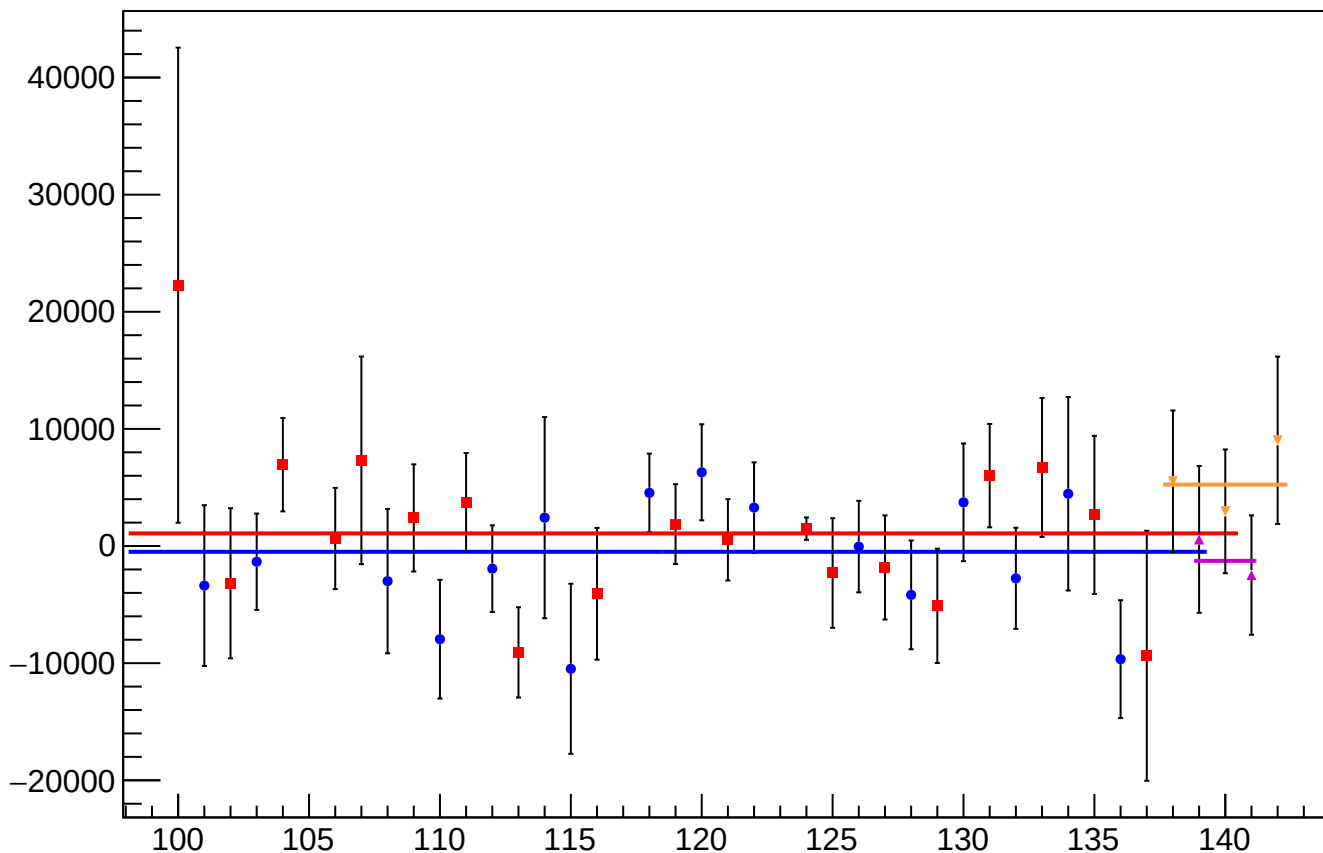
Right: 1749.656+/-0.330 χ^2/NDF : 968602.6/34

In: 1783.485+/-0.430 χ^2/NDF : 697655.6/17

Out: 1785.495+/-0.416 χ^2/NDF : 334478.8/21

All: 1784.522+/-0.299 χ^2/NDF : 1032145.6/39

asym_atr1l2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -492.916+/-1173.239 χ^2/NDF : 16.0/15

Left Out: 5246.752+/-3475.923 χ^2/NDF : 0.5/2

Right Out: 1080.924+/-731.458 χ^2/NDF : 18.5/18

Left In: -1265.611+/-3955.219 χ^2/NDF : 0.1/1

Left: 2408.867+/-2610.951 χ^2/NDF : 2.1/4

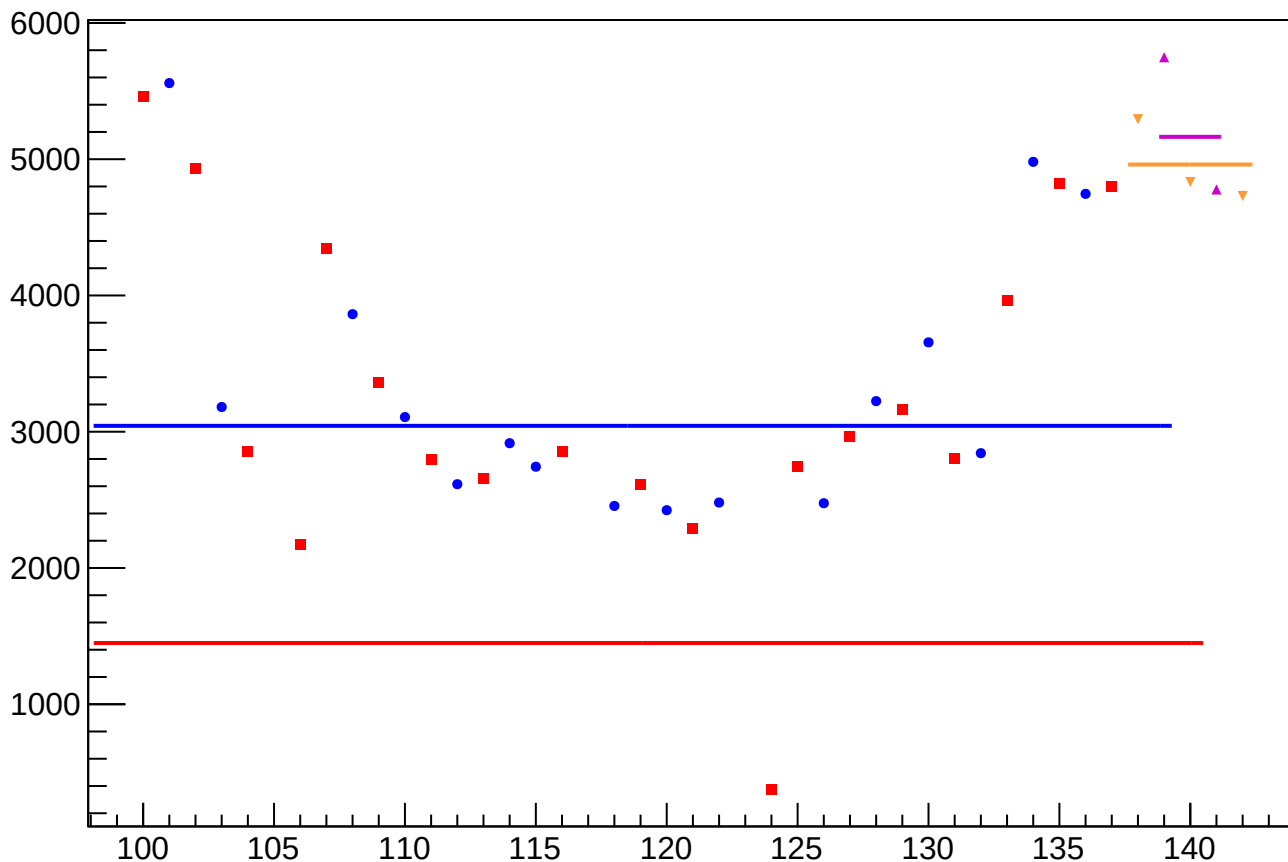
Right: 640.409+/-620.707 χ^2/NDF : 35.7/34

In: -555.407+/-1124.797 χ^2/NDF : 16.2/17

Out: 1257.577+/-715.781 χ^2/NDF : 20.3/21

All: 735.010+/-603.877 χ^2/NDF : 38.3/39

asym_atr1l2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3043.270+/-0.830 χ^2/NDF : 905659.7/15

Left Out: 4960.928+/-2.458 χ^2/NDF :9320.8/2

Right Out: 1449.516+/-0.517 χ^2/NDF : 6825716.5/18

Left In: 5164.327+/-2.797 χ^2/NDF :28843.4/1

Left: 5049.563+/-1.846 χ^2/NDF : 41148.5/4

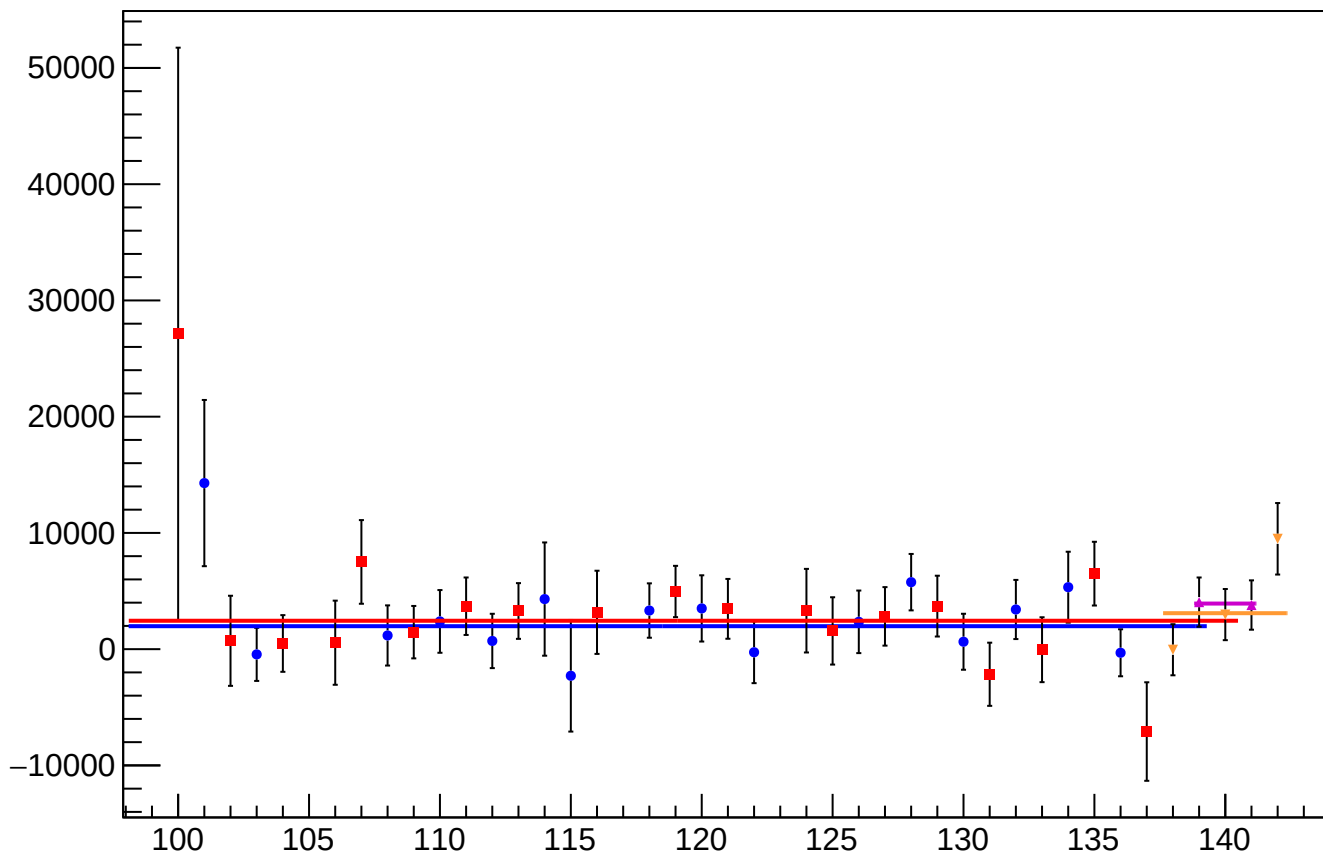
Right: 1895.604+/-0.439 χ^2/NDF : 10389001.0/34

In: 3214.808+/-0.795 χ^2/NDF :1463153.7/17

Out: 1598.418+/-0.506 χ^2/NDF :8789533.8/21

All: 2064.320+/-0.427 χ^2/NDF : 13192432.8/3

dit_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.804+/-674.086 χ^2/NDF : 12.4/15

Left Out: 3094.925+/-1387.666 χ^2/NDF : 6.4/2

Right Out: 2444.199+/-657.682 χ^2/NDF : 17.5/18

Left In: 3922.599+/-1499.115 χ^2/NDF : 0.0/1

Left: 3476.856+/-1018.352 χ^2/NDF : 6.6/4

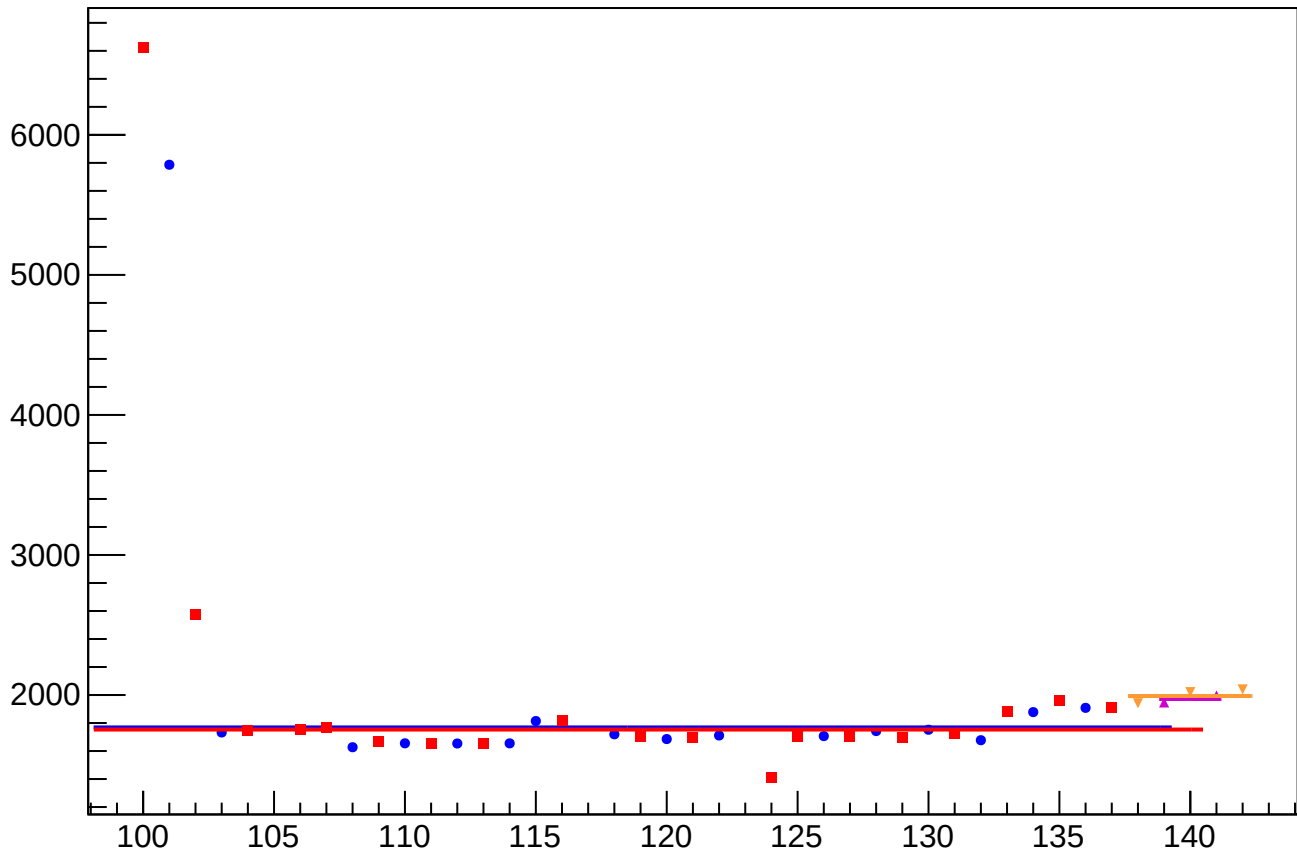
Right: 2215.770+/-470.744 χ^2/NDF : 30.1/34

In: 2303.226+/-614.793 χ^2/NDF : 13.8/17

Out: 2563.558+/-594.312 χ^2/NDF : 24.0/21

All: 2437.801+/-427.299 χ^2/NDF : 38.0/39

dit_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1768.480+/-0.477 χ^2/NDF : 667367.4/15

Left Out: 1992.822+/-0.981 χ^2/NDF :1896.5/2

Right Out: 1753.383+/-0.464 χ^2/NDF : 218864.4/18

Left In: 1971.699+/-1.060 χ^2/NDF :548.8/1

Left: 1983.075+/-0.720 χ^2/NDF : 2659.1/4

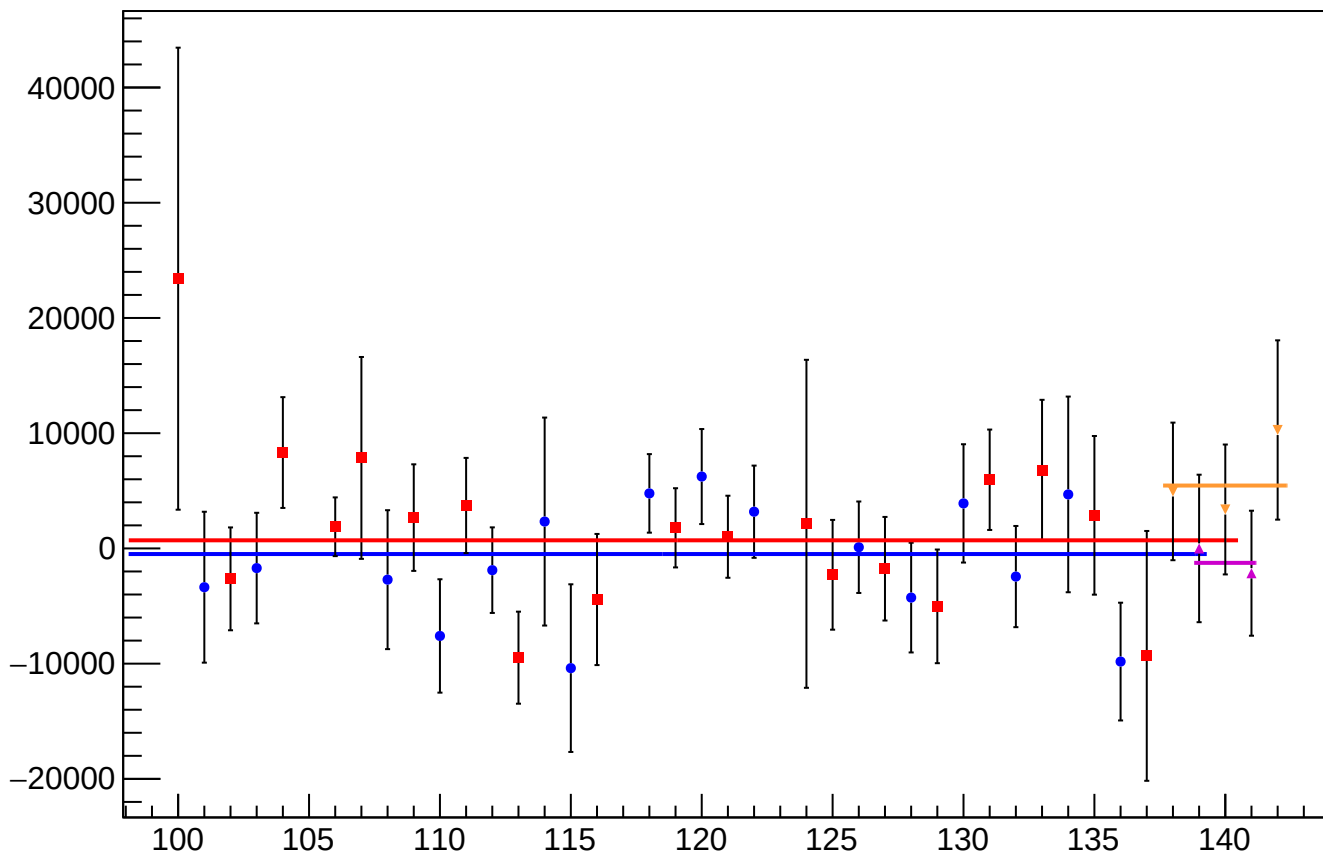
Right: 1760.725+/-0.332 χ^2/NDF : 886747.1/34

In: 1802.658+/-0.435 χ^2/NDF :698487.5/17

Out: 1797.111+/-0.419 χ^2/NDF :269431.8/21

All: 1799.785+/-0.302 χ^2/NDF : 968003.6/39

asym_atr1l2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -488.104+/-1198.506 χ^2/NDF : 15.8/15

Left Out: 5456.691+/-3626.266 χ^2/NDF : 0.5/2

Right Out: 703.324+/-1069.467 χ^2/NDF : 18.8/18

Left In: -1253.414+/-4137.760 χ^2/NDF : 0.1/1

Left: 2541.789+/-2727.172 χ^2/NDF : 2.1/4

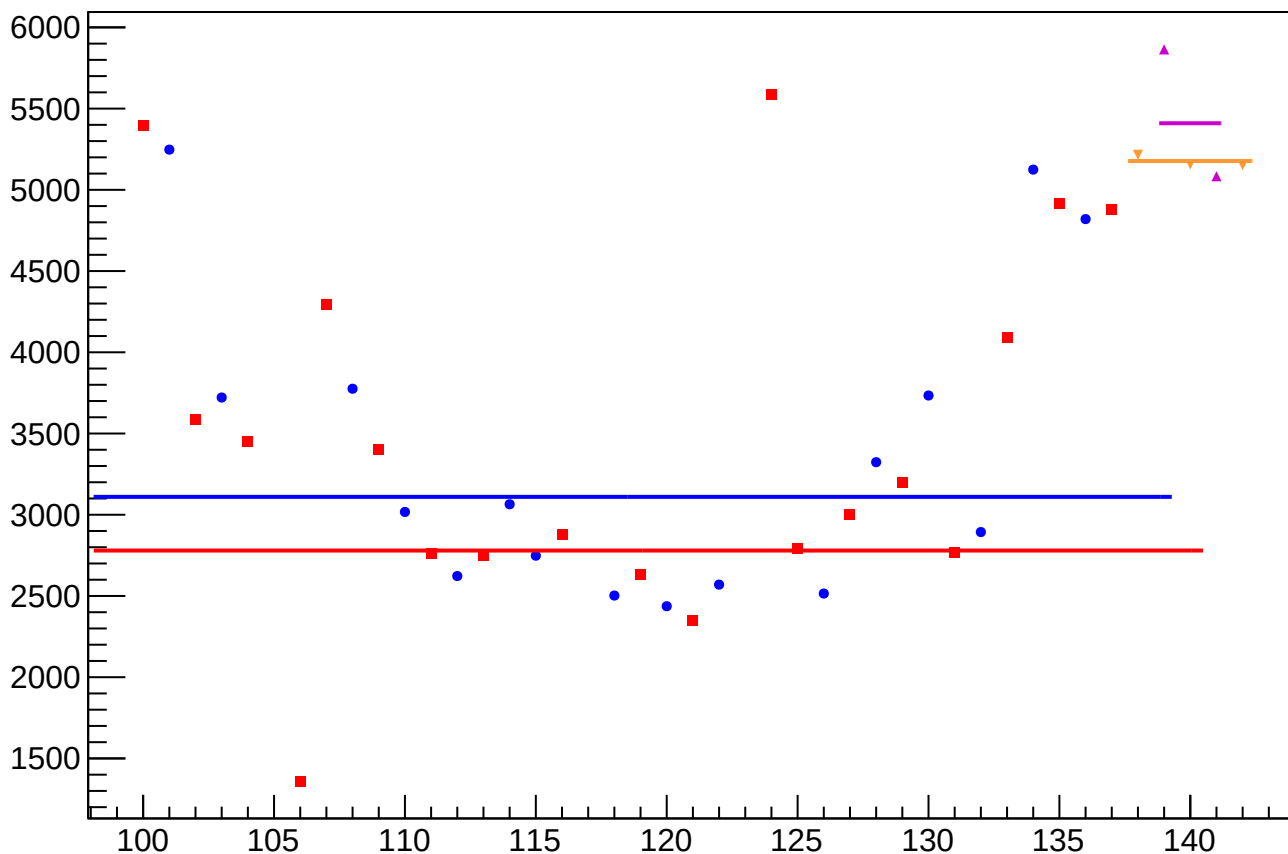
Right: 175.178+/-797.963 χ^2/NDF : 35.1/34

In: -547.342+/-1151.187 χ^2/NDF : 15.8/17

Out: 1083.684+/-1025.786 χ^2/NDF : 20.9/21

All: 361.813+/-765.853 χ^2/NDF : 37.9/39

asym_atr1l2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 3110.133+/-0.847 χ^2/NDF : 883262.4/15

Left Out: 5177.502+/-2.564 χ^2/NDF :132.0/2

Right Out: 2779.630+/-0.756 χ^2/NDF : 1348141.7/18

Left In: 5409.893+/-2.926 χ^2/NDF :17329.0/1

Left: 5278.454+/-1.928 χ^2/NDF : 21029.1/4

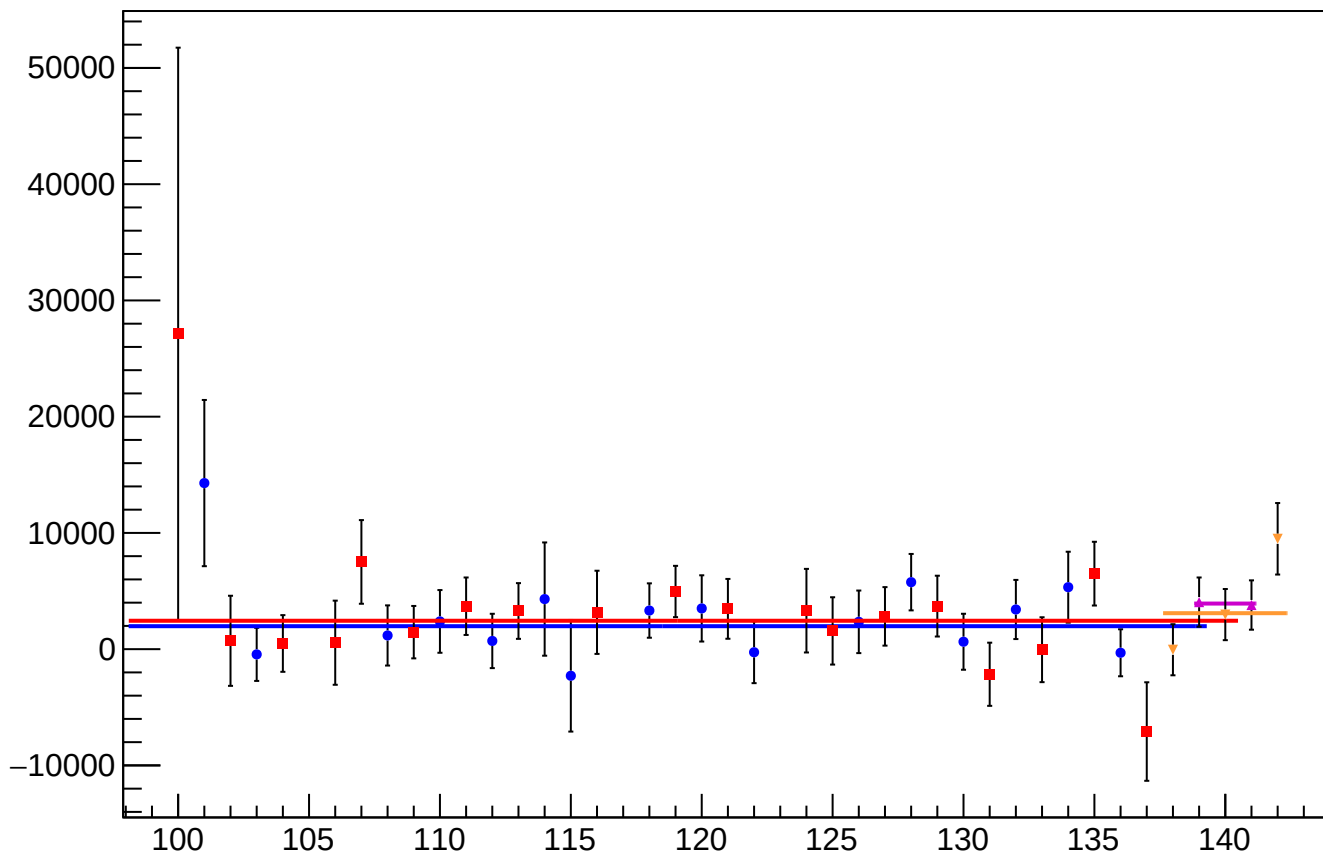
Right: 2926.138+/-0.564 χ^2/NDF : 2316074.2/34

In: 3288.142+/-0.814 χ^2/NDF :1470593.2/17

Out: 2971.506+/-0.725 χ^2/NDF :2152802.2/21

All: 3111.645+/-0.542 χ^2/NDF : 3707736.1/39

eigen_dit_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.805+/-674.086 χ^2/NDF : 12.4/15

Left Out: 3094.938+/-1387.667 χ^2/NDF : 6.4/2

Right Out: 2444.199+/-657.682 χ^2/NDF : 17.5/18

Left In: 3922.594+/-1499.116 χ^2/NDF : 0.0/1

Left: 3476.861+/-1018.352 χ^2/NDF : 6.6/4

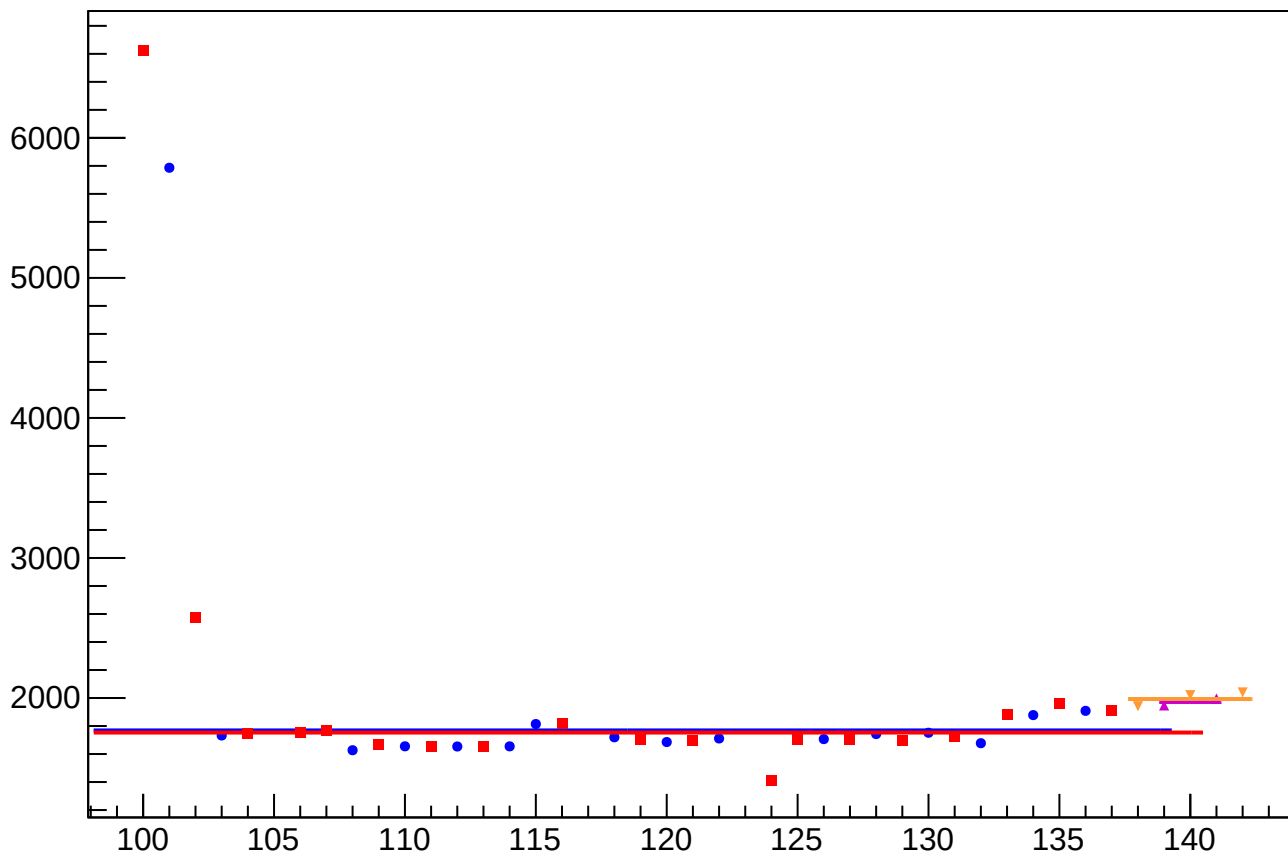
Right: 2215.771+/-470.744 χ^2/NDF : 30.1/34

In: 2303.226+/-614.793 χ^2/NDF : 13.8/17

Out: 2563.561+/-594.312 χ^2/NDF : 24.0/21

All: 2437.802+/-427.299 χ^2/NDF : 38.0/39

eigen_dit_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1768.480+/-0.477 χ^2/NDF : 667367.4/15

Left Out: 1992.823+/-0.981 χ^2/NDF :1896.6/2

Right Out: 1753.382+/-0.464 χ^2/NDF : 218864.3/18

Left In: 1971.700+/-1.060 χ^2/NDF :548.8/1

Left: 1983.076+/-0.720 χ^2/NDF : 2659.2/4

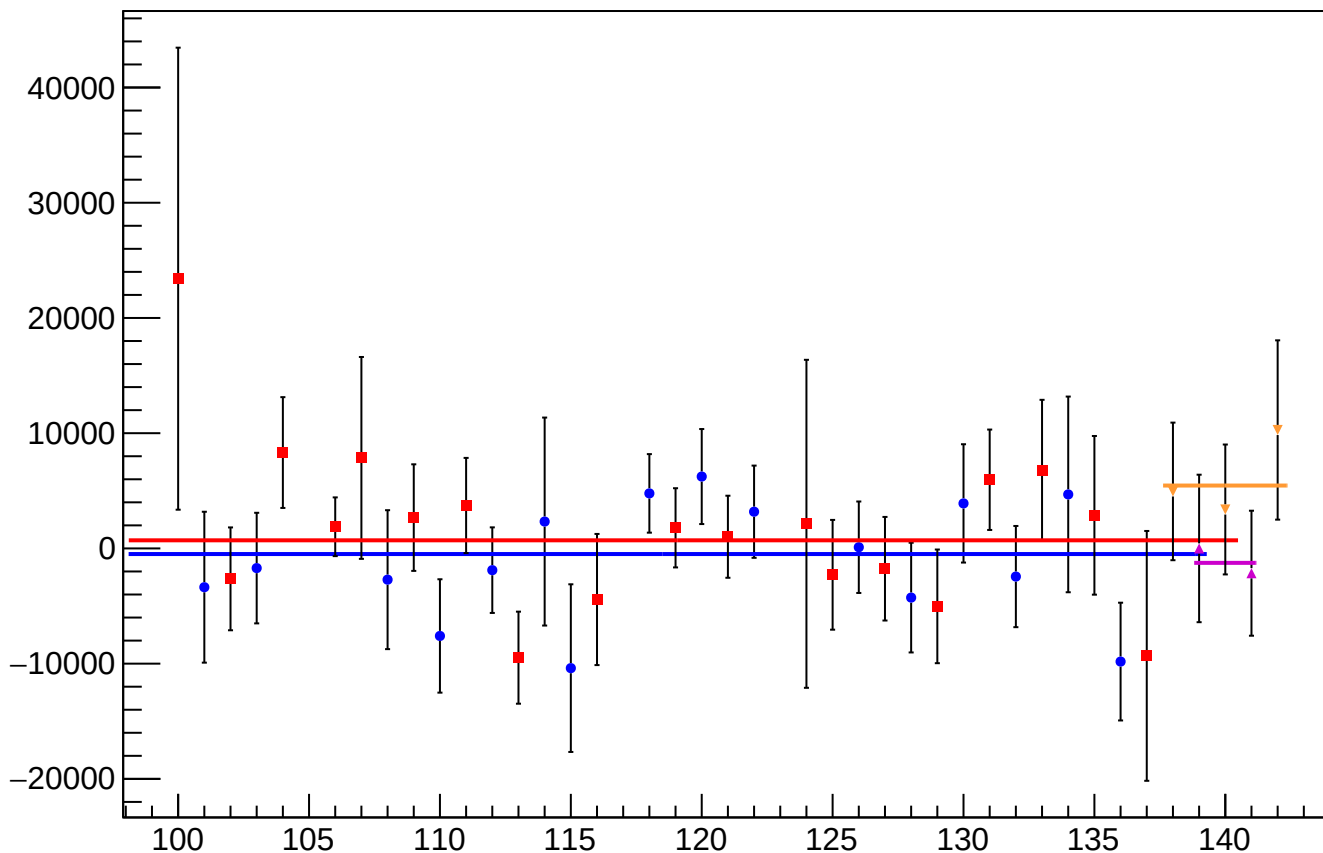
Right: 1760.725+/-0.332 χ^2/NDF : 886747.0/34

In: 1802.658+/-0.435 χ^2/NDF :698487.8/17

Out: 1797.111+/-0.419 χ^2/NDF :269432.2/21

All: 1799.785+/-0.302 χ^2/NDF : 968004.4/39

asym_atr1l2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -488.098 $\pm$ 1198.502 χ^2 /NDF: 15.8/15

Left Out: 5456.712 $\pm$ 3626.275 χ^2 /NDF:0.5/2

Right Out: 703.325 $\pm$ 1069.463 χ^2 /NDF: 18.8/18

Left In: -1253.417 $\pm$ 4137.769 χ^2 /NDF:0.1/1

Left: 2541.799 $\pm$ 2727.179 χ^2 /NDF: 2.1/4

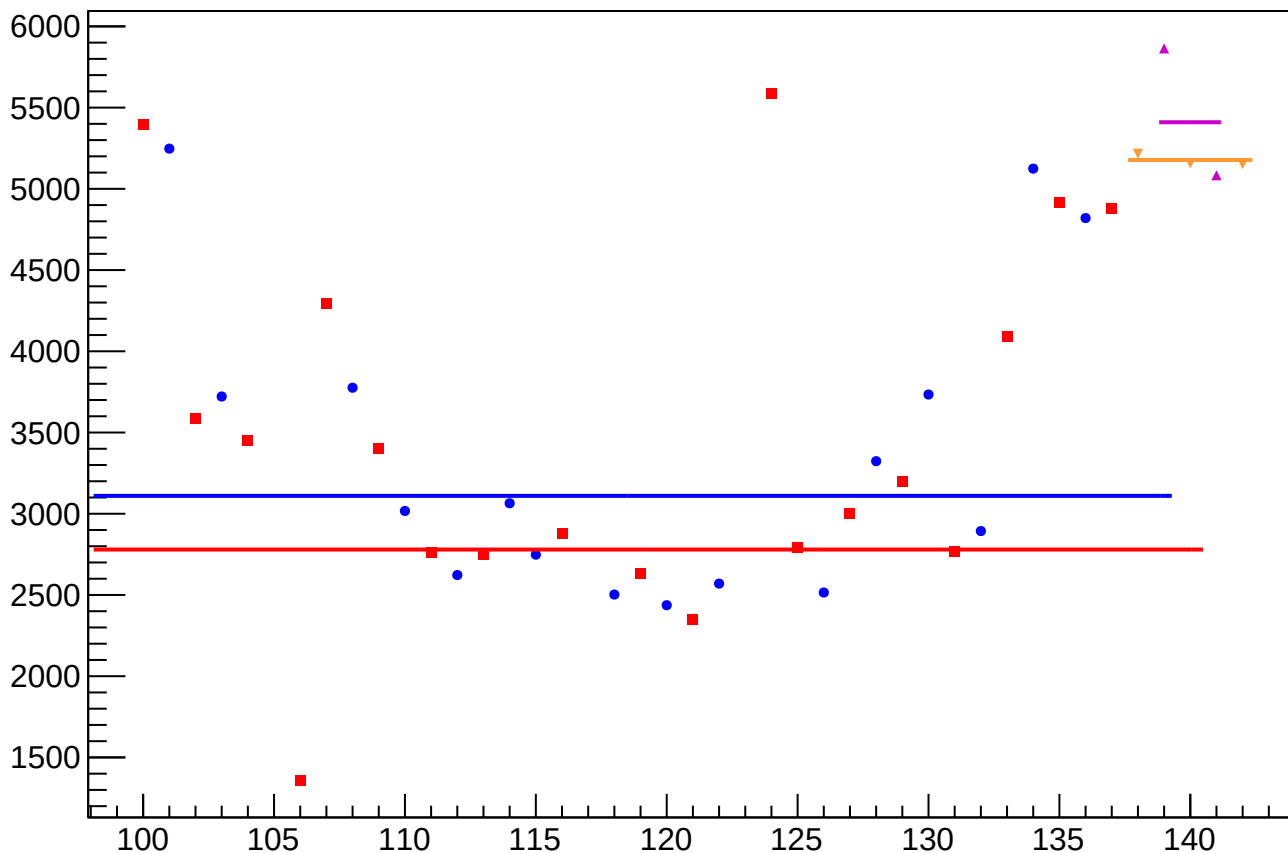
Right: 175.182 $\pm$ 797.960 χ^2 /NDF: 35.1/34

In: -547.336 $\pm$ 1151.184 χ^2 /NDF:15.8/17

Out: 1083.683 $\pm$ 1025.783 χ^2 /NDF:20.9/21

All: 361.816 $\pm$ 765.850 χ^2 /NDF: 37.9/39

asym_atr1l2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3110.121+/-0.847 χ^2/NDF : 883272.2/15

Left Out: 5177.516+/-2.564 χ^2/NDF :132.0/2

Right Out: 2779.617+/-0.756 χ^2/NDF : 1348160.7/18

Left In: 5409.904+/-2.926 χ^2/NDF :17329.4/1

Left: 5278.466+/-1.928 χ^2/NDF : 21029.5/4

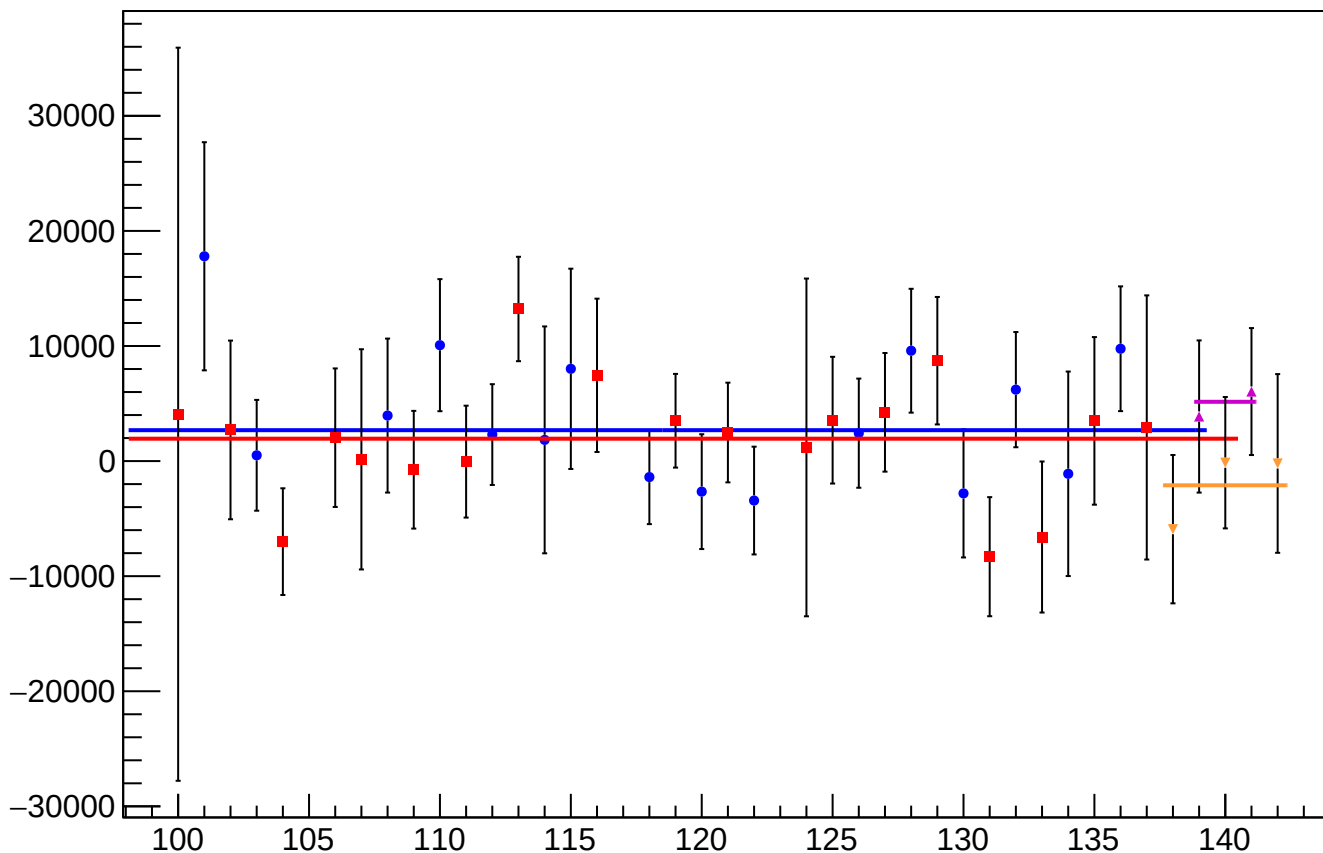
Right: 2926.126+/-0.564 χ^2/NDF : 2316104.6/34

In: 3288.131+/-0.814 χ^2/NDF :1470612.8/17

Out: 2971.493+/-0.725 χ^2/NDF :2152835.6/21

All: 3111.633+/-0.542 χ^2/NDF : 3707790.5/39

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2685.414+/-1379.907 χ^2/NDF : 13.5/15

Left Out: -2104.241+/-3743.780 χ^2/NDF : 0.5/2

Right Out: 1945.685+/-1332.986 χ^2/NDF : 18.7/18

Left In: 5152.388+/-4235.628 χ^2/NDF : 0.1/1

Left: 1078.471+/-2805.104 χ^2/NDF : 2.2/4

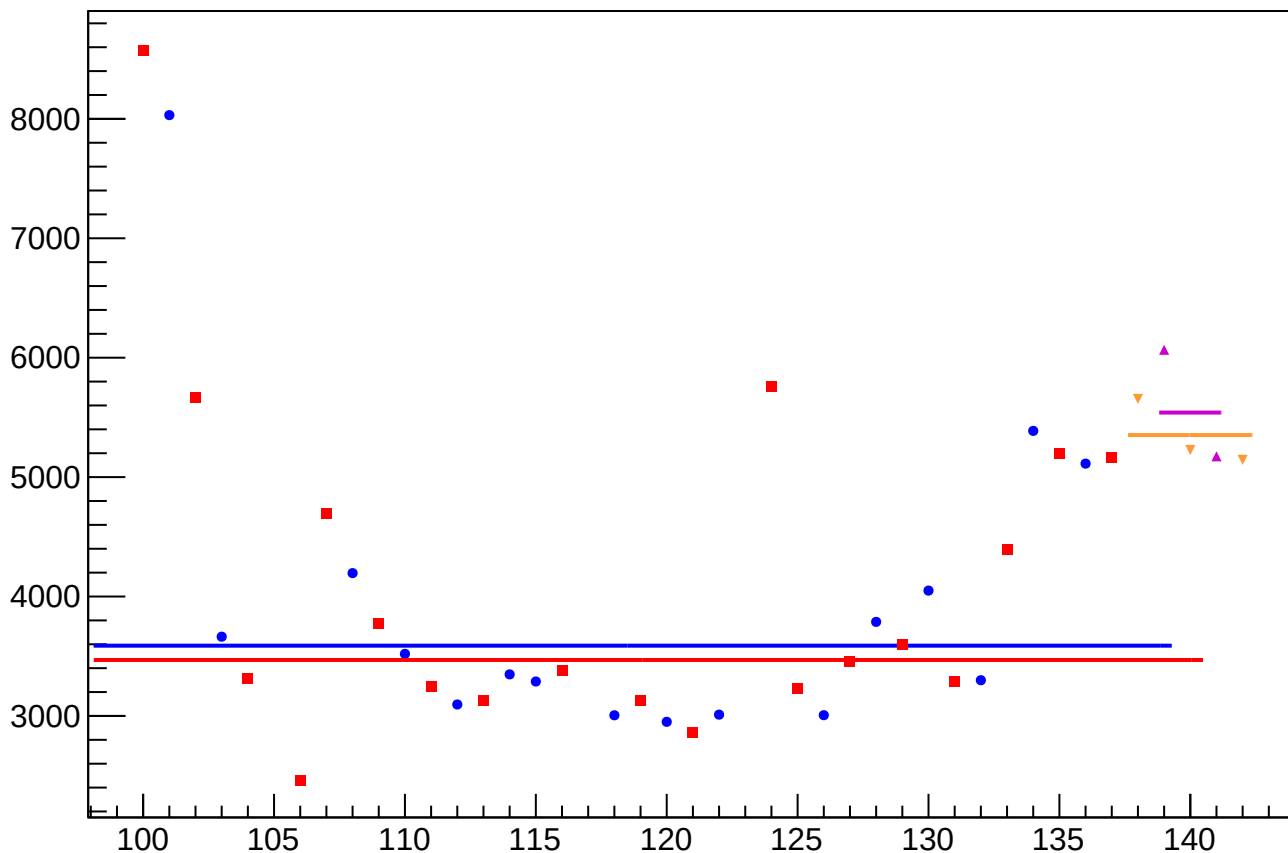
Right: 2302.760+/-958.722 χ^2/NDF : 32.3/34

In: 2922.126+/-1312.035 χ^2/NDF : 13.8/17

Out: 1490.025+/-1255.762 χ^2/NDF : 20.3/21

All: 2174.706+/-907.199 χ^2/NDF : 34.7/39

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 3588.430+/-0.976 χ^2/NDF : 845218.6/15

Left Out: 5352.135+/-2.647 χ^2/NDF : 6793.9/2

Right Out: 3468.624+/-0.928 χ^2/NDF : 666541.5/18

Left In: 5540.454+/-2.995 χ^2/NDF : 21474.8/1

Left: 5434.730+/-1.984 χ^2/NDF : 30488.1/4

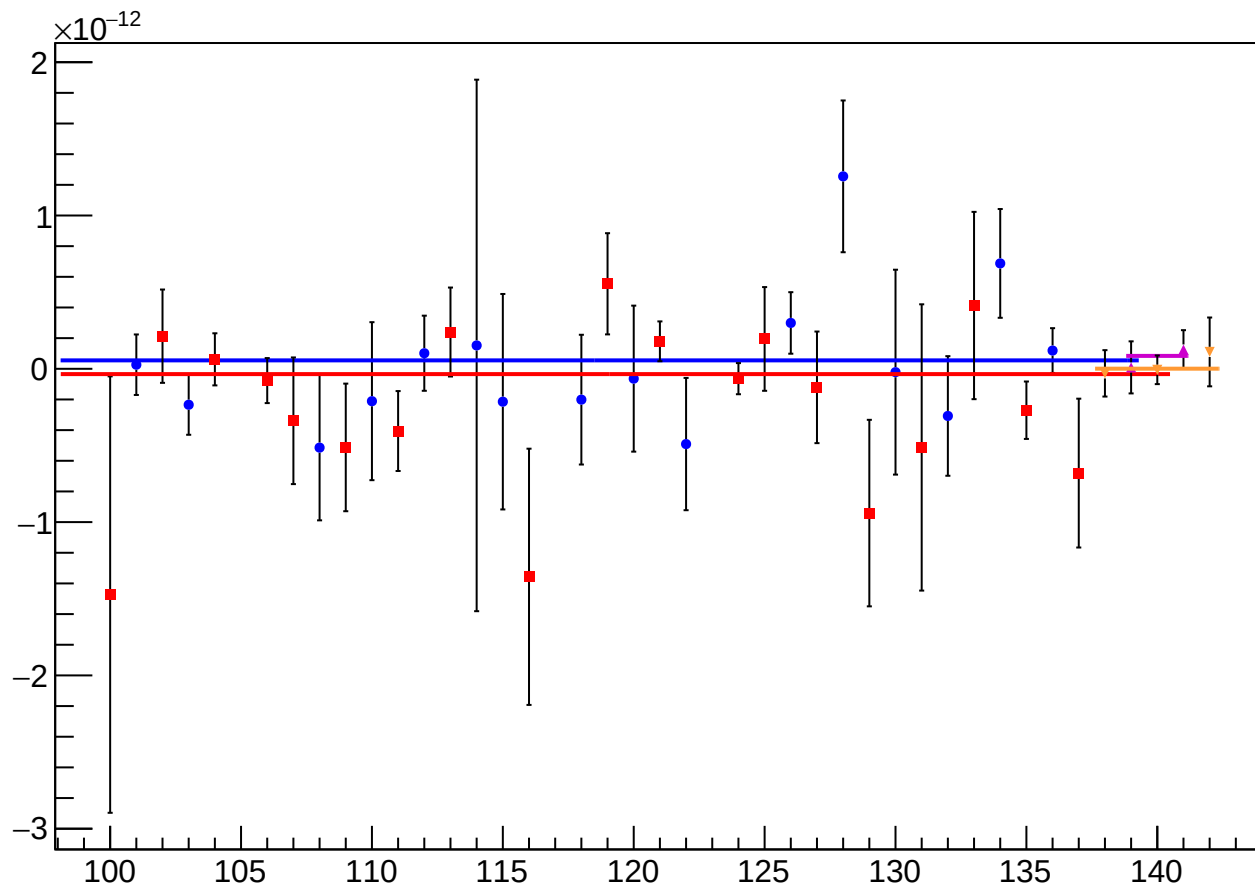
Right: 3525.541+/-0.673 χ^2/NDF : 1519674.0/34

In: 3775.731+/-0.928 χ^2/NDF : 1250715.2/17

Out: 3674.851+/-0.876 χ^2/NDF : 1124135.5/21

All: 3722.397+/-0.637 χ^2/NDF : 2381101.6/39

asym_atr1l2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.3/2

Right Out: -0.000+/-0.000 χ^2/NDF : 22.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.3/1

Left: 0.000+/-0.000 χ^2/NDF : 1.0/4

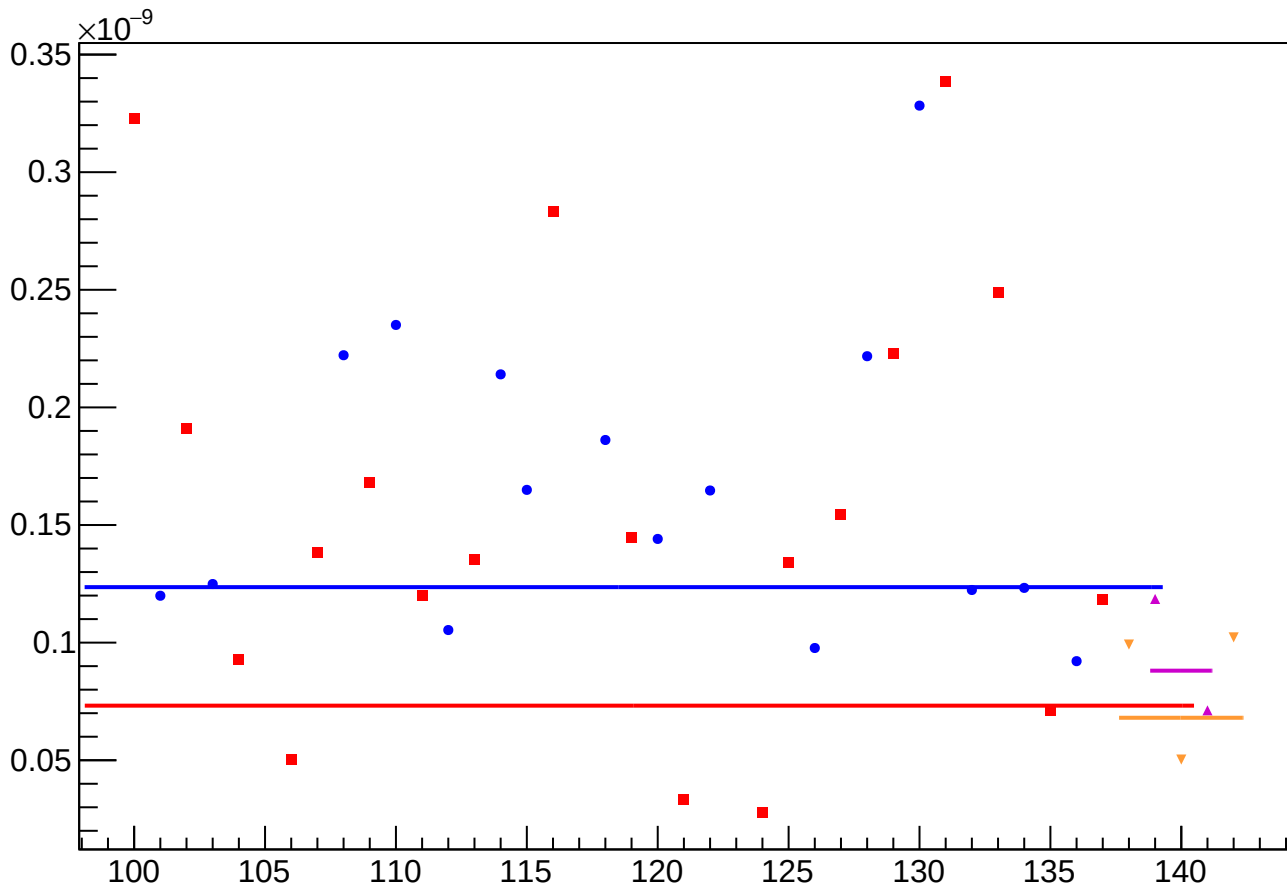
Right: -0.000+/-0.000 χ^2/NDF : 41.0/34

In: 0.000+/-0.000 χ^2/NDF : 18.1/17

Out: -0.000+/-0.000 χ^2/NDF : 22.7/21

All: 0.000+/-0.000 χ^2/NDF : 42.2/39

asym_atr1l2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 662149.2/15

Left Out: 0.000+/-0.000 χ^2/NDF :203399.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2188857.9/18

Left In: 0.000+/-0.000 χ^2/NDF :100163.9/1

Left: 0.000+/-0.000 χ^2/NDF : 354014.0/4

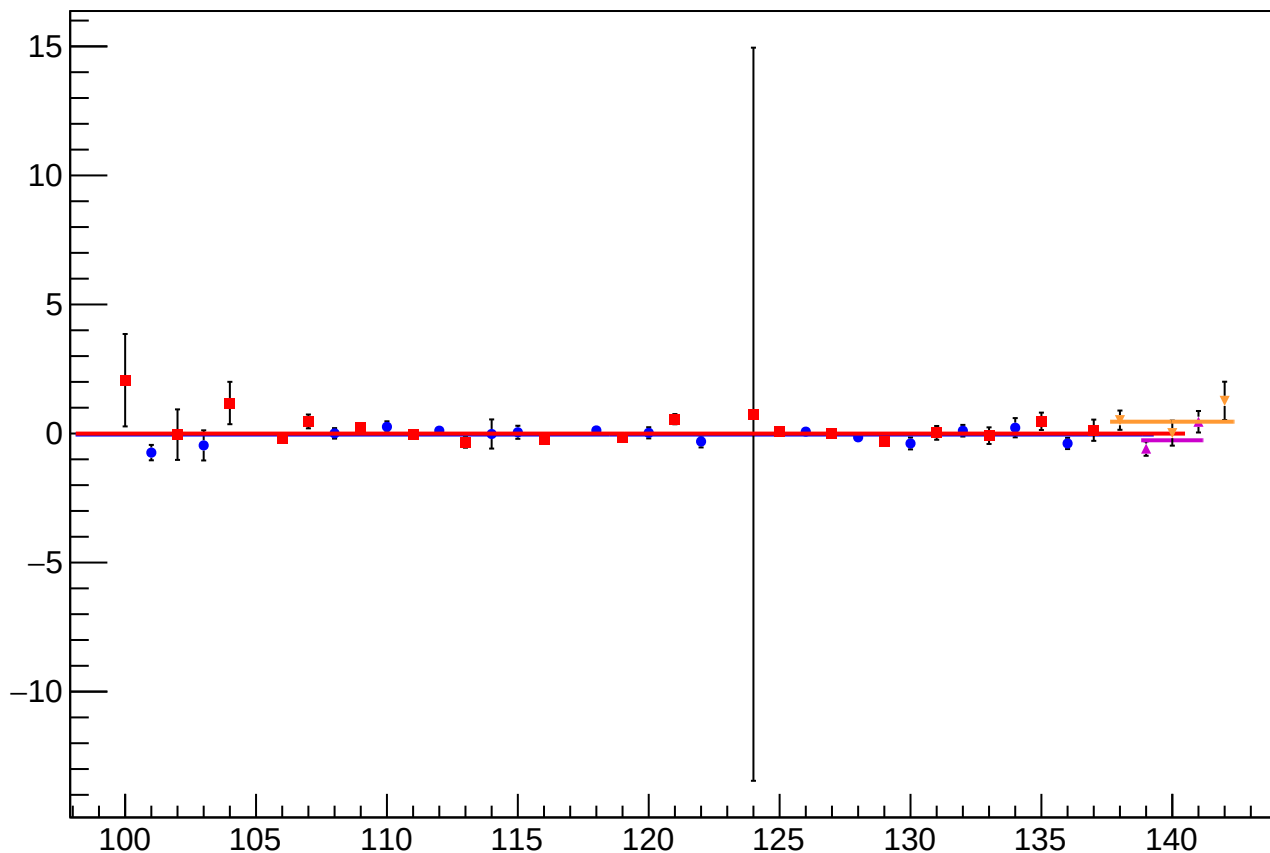
Right: 0.000+/-0.000 χ^2/NDF : 3471325.1/34

In: 0.000+/-0.000 χ^2/NDF :923683.3/17

Out: 0.000+/-0.000 χ^2/NDF :2398535.2/21

All: 0.000+/-0.000 χ^2/NDF : 3913233.6/39

asym_atr1l2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.056 χ^2/NDF : 17.9/15

Left Out: 0.458 ± 0.275 χ^2/NDF : 2.0/2

Right Out: -0.003 ± 0.051 χ^2/NDF : 28.7/18

Left In: -0.262 ± 0.232 χ^2/NDF : 4.3/1

Left: 0.037 ± 0.177 χ^2/NDF : 10.4/4

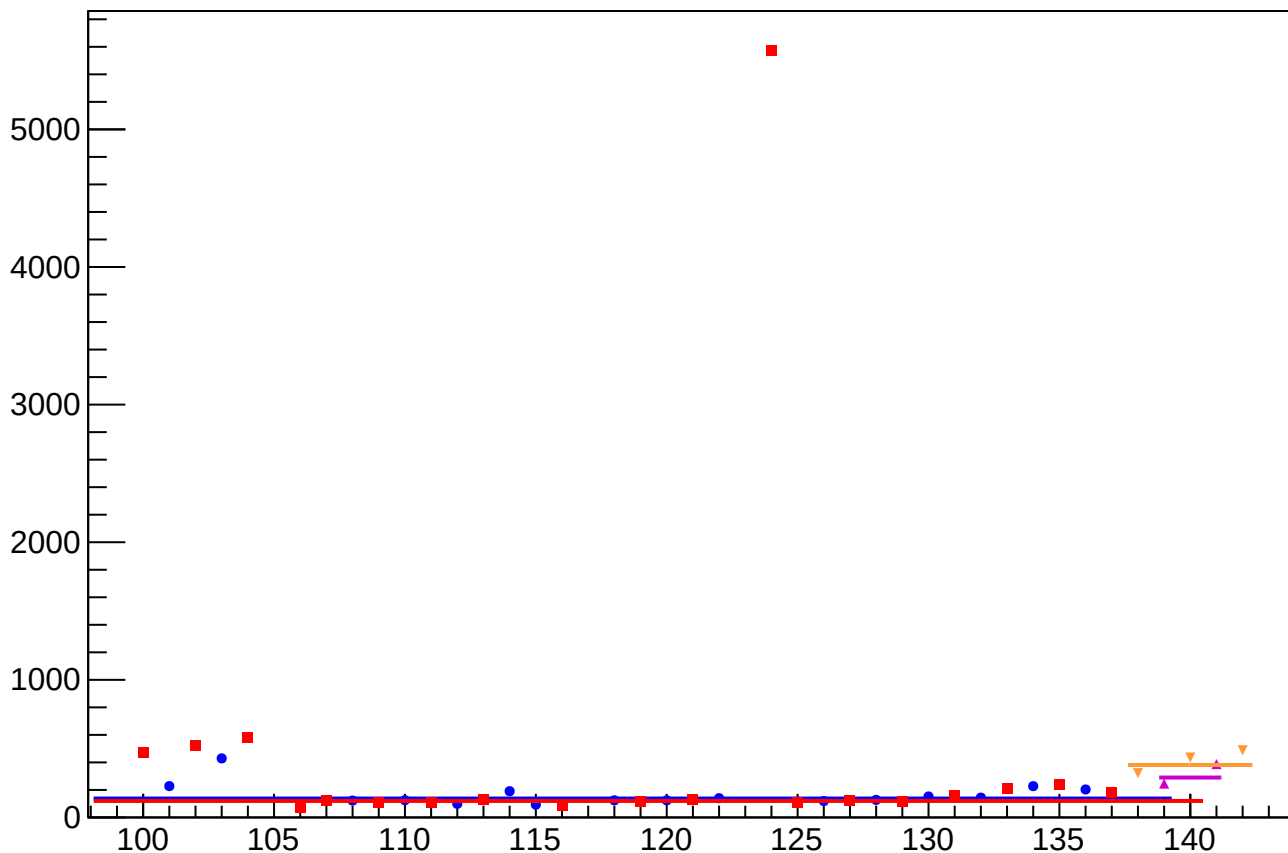
Right: -0.020 ± 0.038 χ^2/NDF : 46.9/34

In: -0.052 ± 0.054 χ^2/NDF : 23.1/17

Out: 0.012 ± 0.050 χ^2/NDF : 33.5/21

All: -0.017 ± 0.037 χ^2/NDF : 57.3/39

asym_atr1l2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.399 $\pm$ 0.039 χ^2 /NDF: 1268257.0/15

Left Out: 381.266 $\pm$ 0.194 χ^2 /NDF: 116960.3/2

Right Out: 120.006 $\pm$ 0.036 χ^2 /NDF: 2139894.0/18

Left In: 289.991 $\pm$ 0.164 χ^2 /NDF: 160020.7/1

Left: 327.925 $\pm$ 0.125 χ^2 /NDF: 405922.2/4

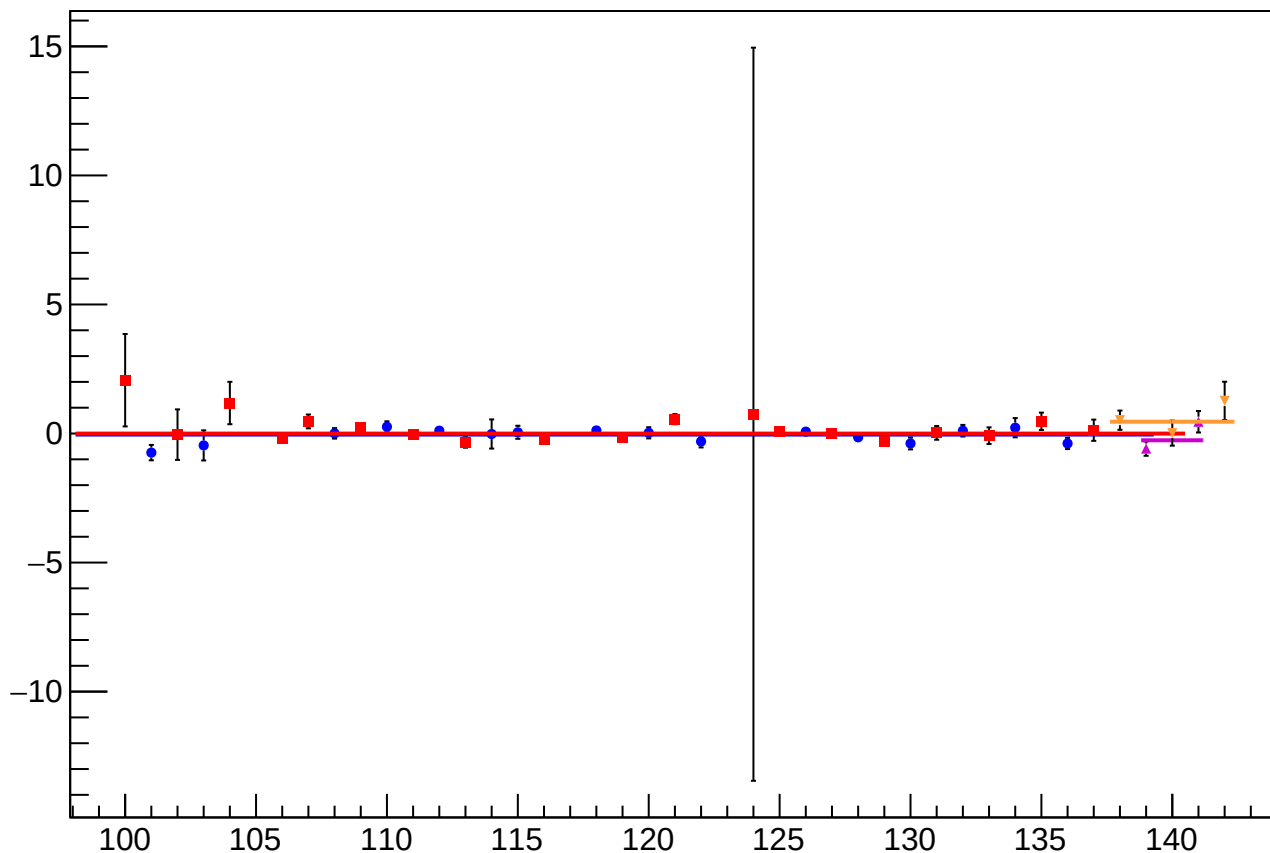
Right: 127.907 $\pm$ 0.027 χ^2 /NDF: 3514127.8/34

In: 145.767 $\pm$ 0.038 χ^2 /NDF: 2247820.8/17

Out: 128.680 $\pm$ 0.035 χ^2 /NDF: 4004521.3/21

All: 136.538 $\pm$ 0.026 χ^2 /NDF: 6359434.3/39

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.056 $\chi^2/\text{NDF}: 17.9/15$

Left Out: 0.458 ± 0.275 $\chi^2/\text{NDF}: 2.0/2$

Right Out: -0.003 ± 0.051 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.262 ± 0.232 $\chi^2/\text{NDF}: 4.3/1$

Left: 0.037 ± 0.177 $\chi^2/\text{NDF}: 10.4/4$

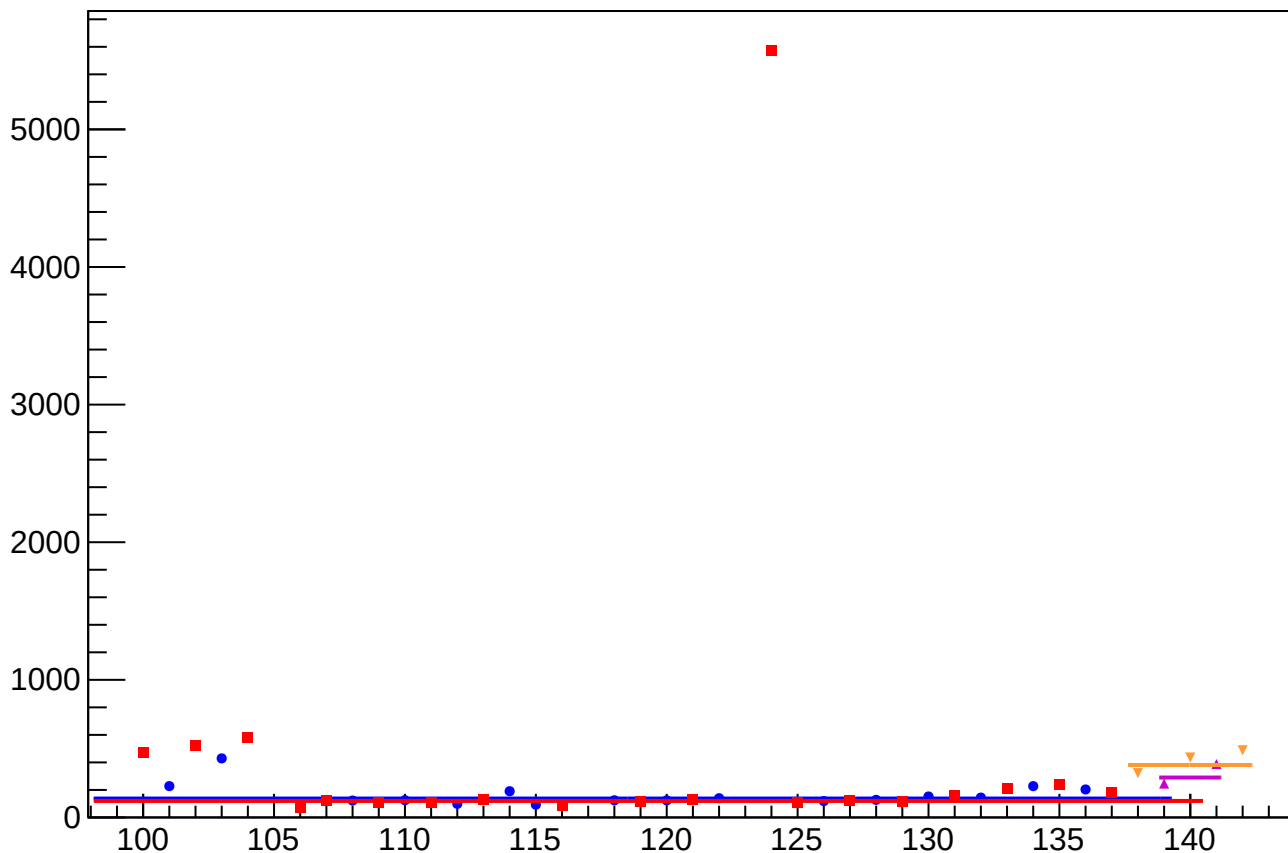
Right: -0.020 ± 0.038 $\chi^2/\text{NDF}: 46.9/34$

In: -0.052 ± 0.054 $\chi^2/\text{NDF}: 23.1/17$

Out: 0.012 ± 0.050 $\chi^2/\text{NDF}: 33.5/21$

All: -0.017 ± 0.037 $\chi^2/\text{NDF}: 57.3/39$

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.399+/-0.039 χ^2/NDF : 1268257.0/15

Left Out: 381.266+/-0.194 χ^2/NDF : 116960.3/2

Right Out: 120.006+/-0.036 χ^2/NDF : 2139894.0/18

Left In: 289.991+/-0.164 χ^2/NDF : 160020.7/1

Left: 327.925+/-0.125 χ^2/NDF : 405922.2/4

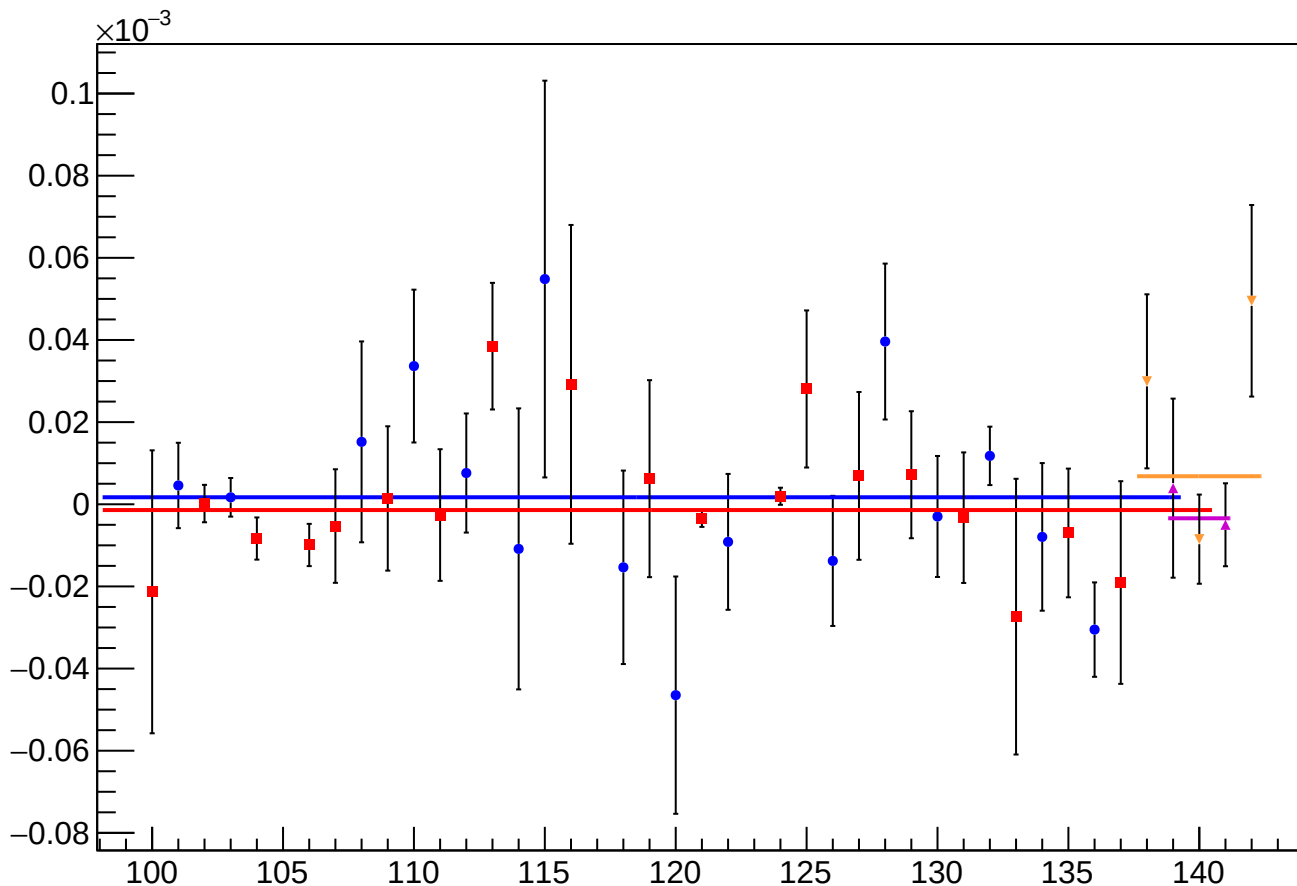
Right: 127.907+/-0.027 χ^2/NDF : 3514127.8/34

In: 145.767+/-0.038 χ^2/NDF : 2247820.8/17

Out: 128.680+/-0.035 χ^2/NDF : 4004521.3/21

All: 136.538+/-0.026 χ^2/NDF : 6359434.3/39

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 23.8/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 6.5/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 20.3/18

Left In: -0.000 ± 0.000 χ^2/NDF : 0.1/1

Left: 0.000 ± 0.000 χ^2/NDF : 7.3/4

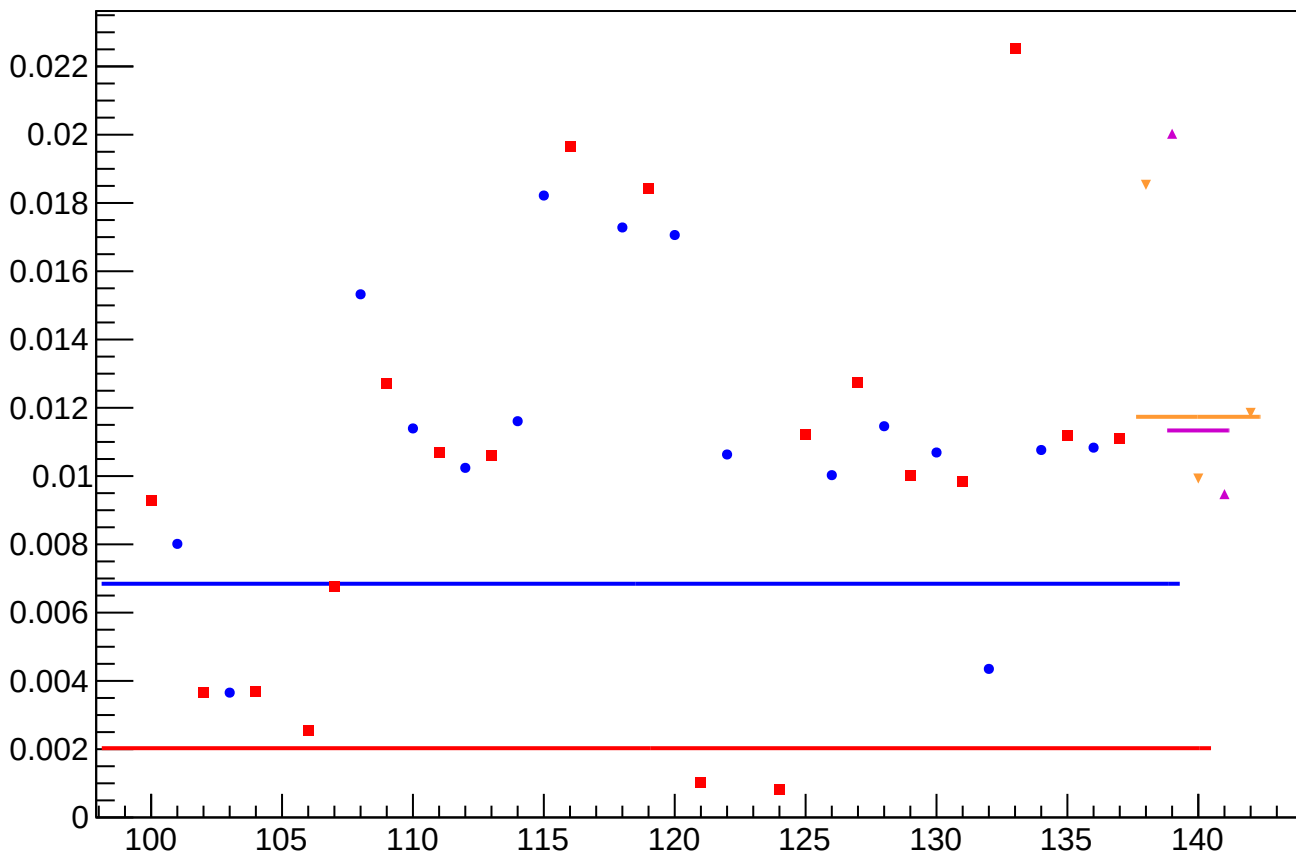
Right: -0.000 ± 0.000 χ^2/NDF : 45.0/34

In: 0.000 ± 0.000 χ^2/NDF : 24.2/17

Out: -0.000 ± 0.000 χ^2/NDF : 27.6/21

All: -0.000 ± 0.000 χ^2/NDF : 52.5/39

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3230112.6/15

Left Out: 0.012+/-0.000 χ^2/NDF :261271.6/2

Right Out: 0.002+/-0.000 χ^2/NDF : 9007527.0/18

Left In: 0.011+/-0.000 χ^2/NDF :386162.0/1

Left: 0.012+/-0.000 χ^2/NDF : 649388.3/4

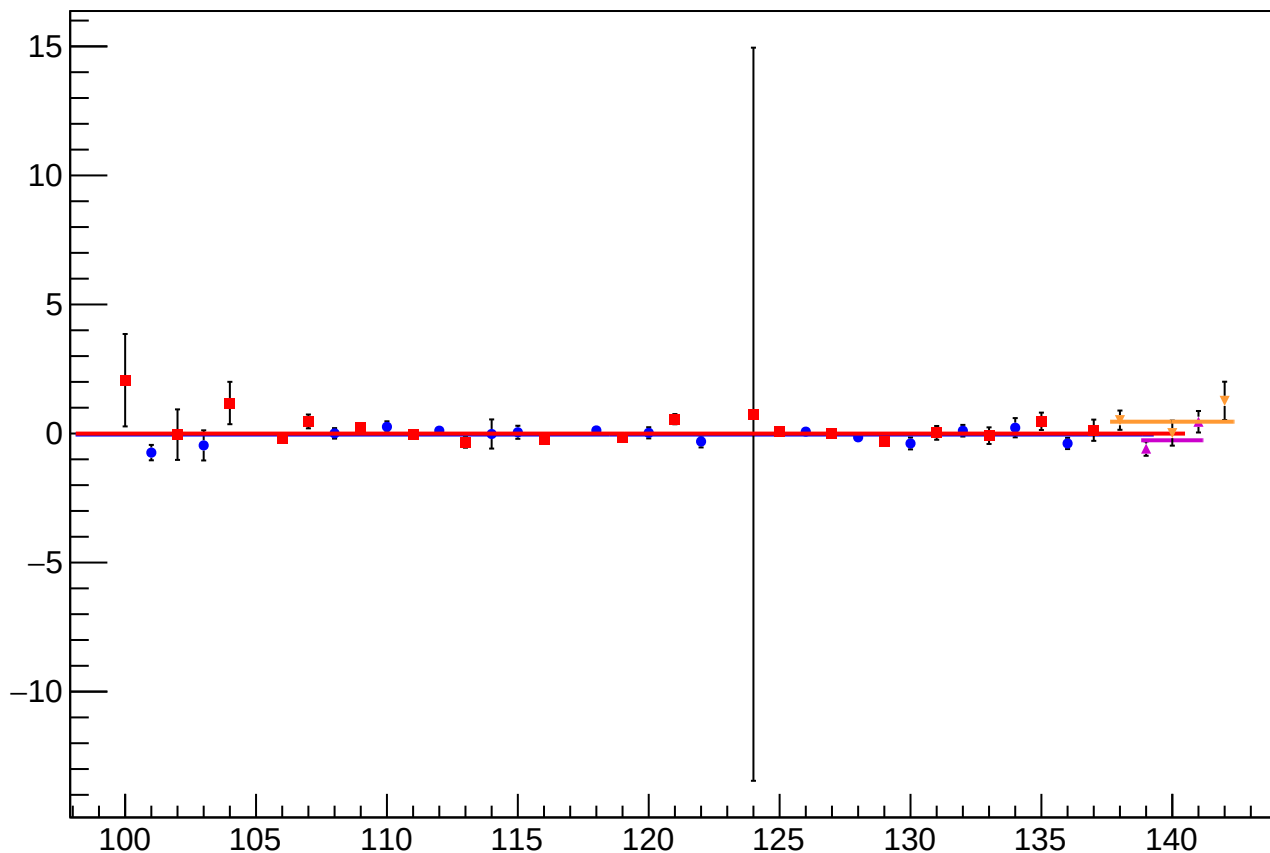
Right: 0.003+/-0.000 χ^2/NDF : 16707172.2/34

In: 0.007+/-0.000 χ^2/NDF :4051149.9/17

Out: 0.002+/-0.000 χ^2/NDF :11588648.5/21

All: 0.003+/-0.000 χ^2/NDF : 21009443.8/39

asym_atr1l2_avg_eigen_dit_vs_slug, Sign Corrected



Right In: -0.040 ± 0.056 $\chi^2/\text{NDF}: 17.9/15$

Left Out: 0.458 ± 0.275 $\chi^2/\text{NDF}: 2.0/2$

Right Out: -0.003 ± 0.051 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.262 ± 0.232 $\chi^2/\text{NDF}: 4.3/1$

Left: 0.037 ± 0.177 $\chi^2/\text{NDF}: 10.4/4$

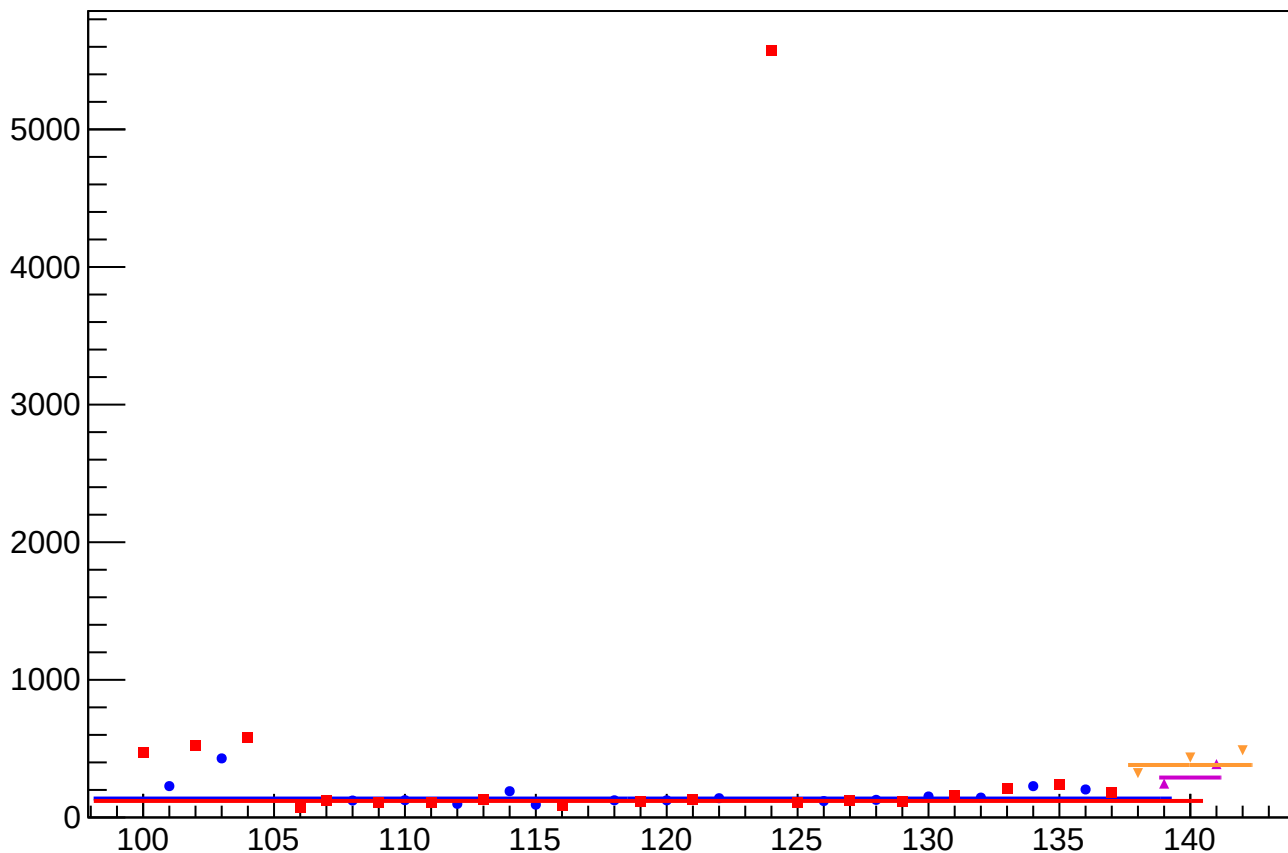
Right: -0.020 ± 0.038 $\chi^2/\text{NDF}: 46.9/34$

In: -0.052 ± 0.054 $\chi^2/\text{NDF}: 23.1/17$

Out: 0.012 ± 0.050 $\chi^2/\text{NDF}: 33.5/21$

All: -0.017 ± 0.037 $\chi^2/\text{NDF}: 57.3/39$

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.400+/-0.039 χ^2/NDF : 1268197.9/15

Left Out: 381.269+/-0.194 χ^2/NDF : 116969.2/2

Right Out: 120.006+/-0.036 χ^2/NDF : 2139820.8/18

Left In: 289.998+/-0.164 χ^2/NDF : 160008.8/1

Left: 327.932+/-0.125 χ^2/NDF : 405902.3/4

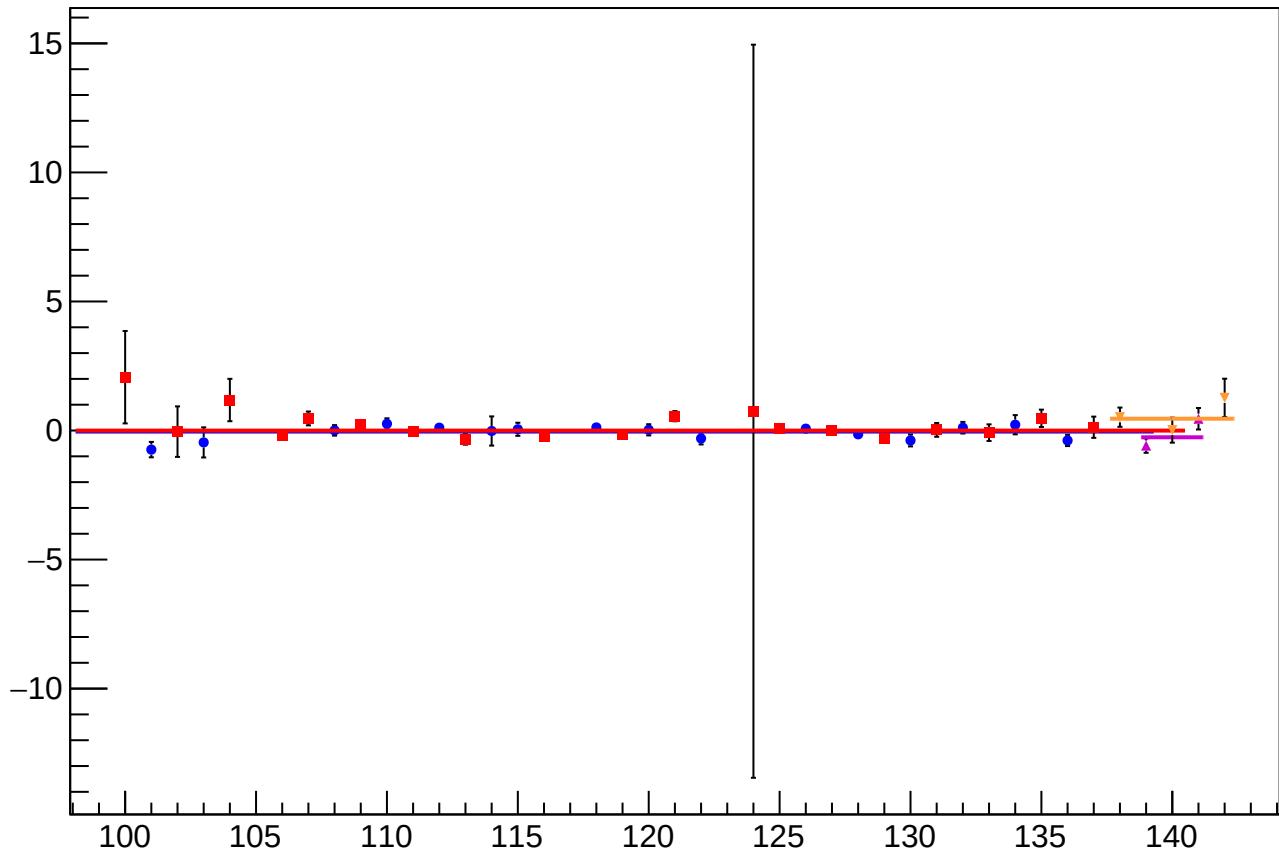
Right: 127.907+/-0.027 χ^2/NDF : 3514005.7/34

In: 145.768+/-0.038 χ^2/NDF : 2247784.5/17

Out: 128.680+/-0.035 χ^2/NDF : 4004470.8/21

All: 136.538+/-0.026 χ^2/NDF : 6359359.5/39

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.056 $\chi^2/\text{NDF}: 17.9/15$

Left Out: 0.458 ± 0.275 $\chi^2/\text{NDF}: 2.0/2$

Right Out: -0.003 ± 0.051 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.262 ± 0.232 $\chi^2/\text{NDF}: 4.3/1$

Left: 0.037 ± 0.177 $\chi^2/\text{NDF}: 10.4/4$

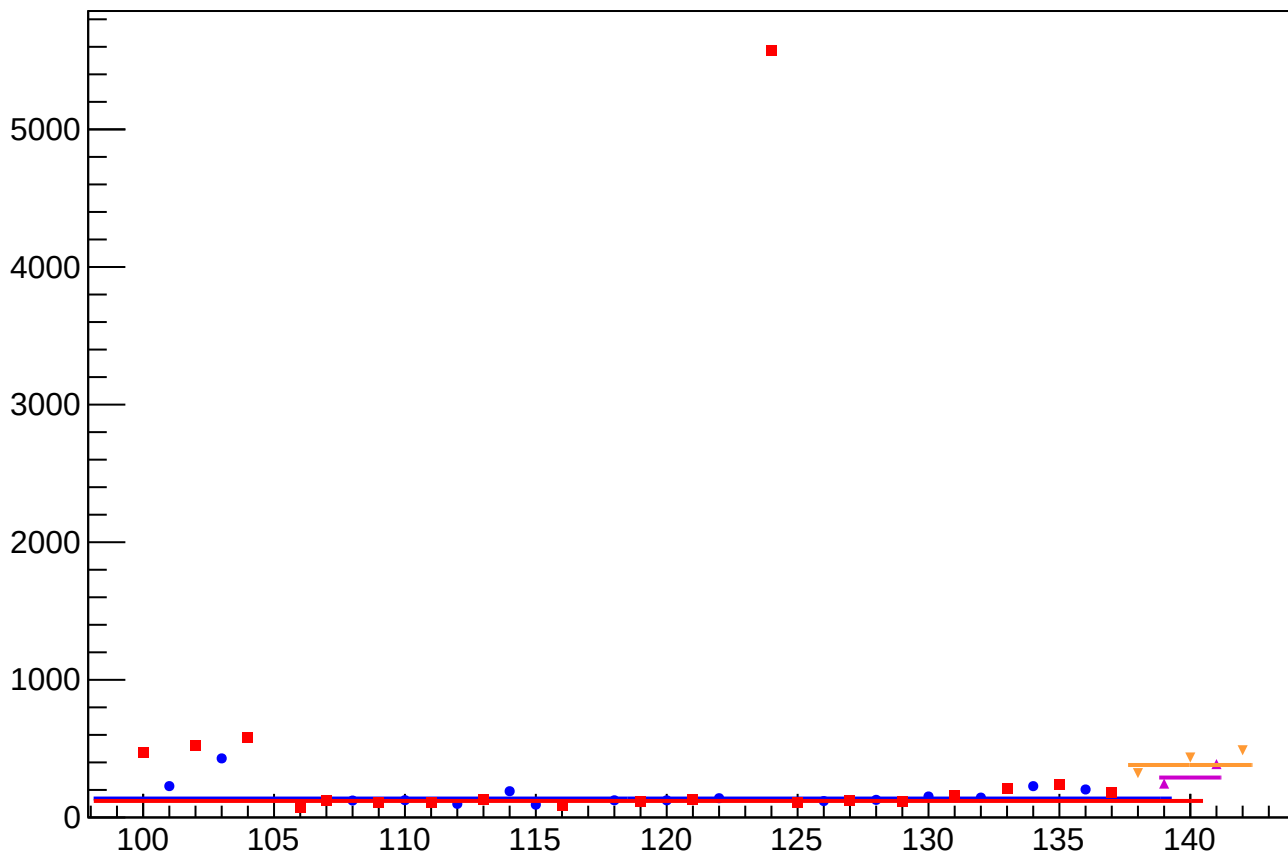
Right: -0.020 ± 0.038 $\chi^2/\text{NDF}: 46.9/34$

In: -0.052 ± 0.054 $\chi^2/\text{NDF}: 23.1/17$

Out: 0.012 ± 0.050 $\chi^2/\text{NDF}: 33.5/21$

All: -0.017 ± 0.037 $\chi^2/\text{NDF}: 57.3/39$

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.400+/-0.039 χ^2/NDF : 1268197.9/15

Left Out: 381.269+/-0.194 χ^2/NDF : 116969.2/2

Right Out: 120.006+/-0.036 χ^2/NDF : 2139820.8/18

Left In: 289.998+/-0.164 χ^2/NDF : 160008.8/1

Left: 327.932+/-0.125 χ^2/NDF : 405902.3/4

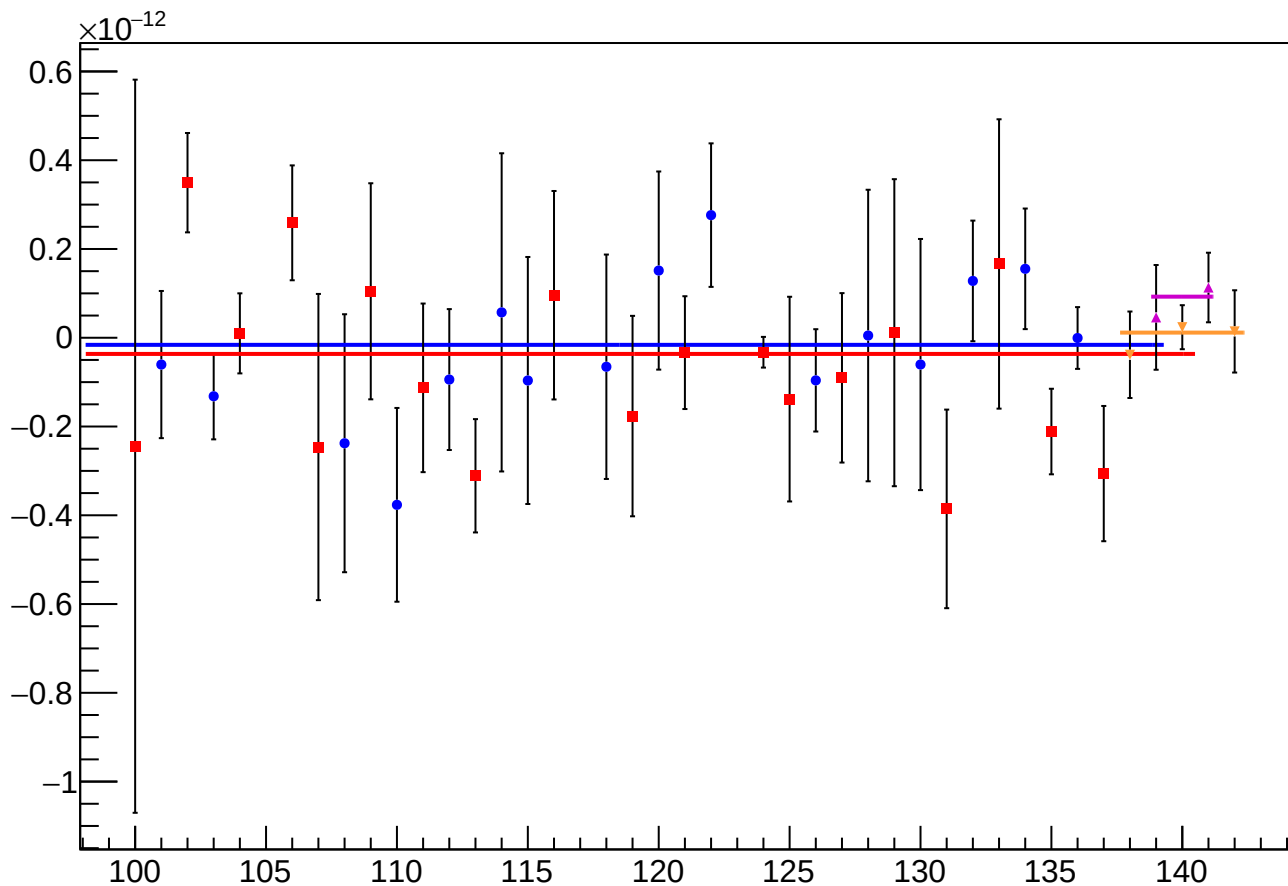
Right: 127.907+/-0.027 χ^2/NDF : 3514005.7/34

In: 145.768+/-0.038 χ^2/NDF : 2247784.5/17

Out: 128.680+/-0.035 χ^2/NDF : 4004470.8/21

All: 136.538+/-0.026 χ^2/NDF : 6359359.5/39

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 12.3/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.3/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 33.2/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.2/1

Left: 0.000 ± 0.000 χ^2/NDF : 1.7/4

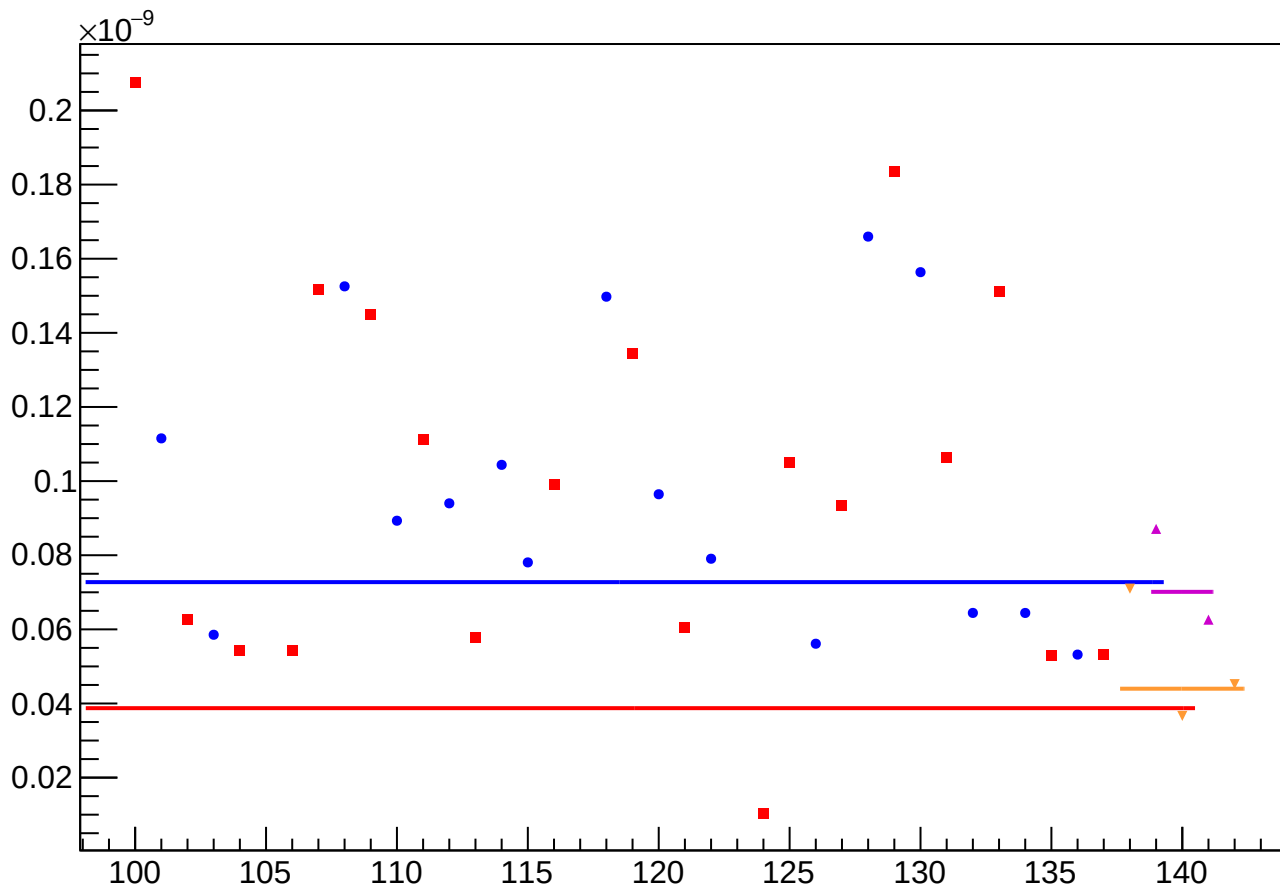
Right: -0.000 ± 0.000 χ^2/NDF : 45.7/34

In: 0.000 ± 0.000 χ^2/NDF : 14.6/17

Out: -0.000 ± 0.000 χ^2/NDF : 34.5/21

All: -0.000 ± 0.000 χ^2/NDF : 49.9/39

asym_atr12_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1128031.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 197737.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4266020.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 59775.2/1

Left: 0.000+/-0.000 χ^2/NDF : 490746.3/4

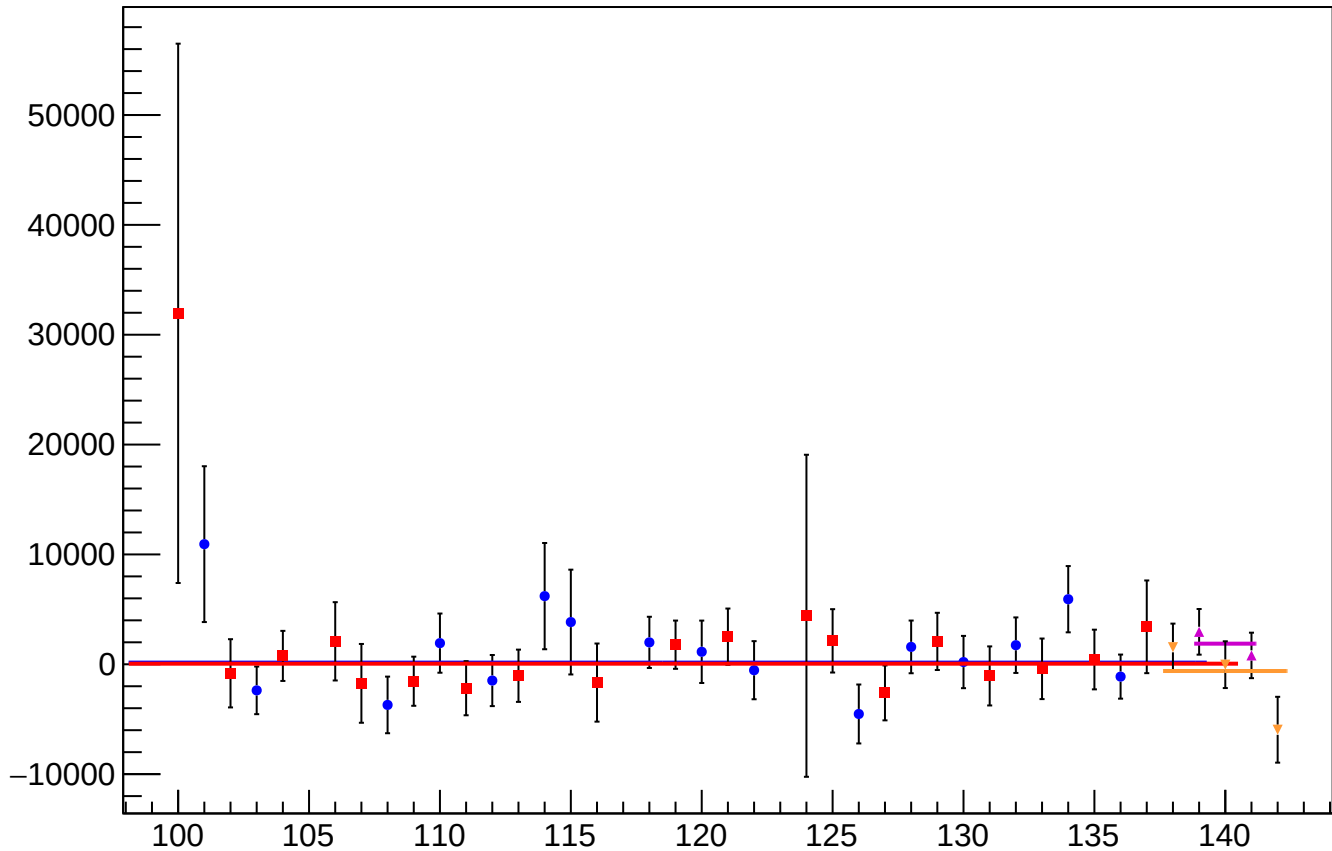
Right: 0.000+/-0.000 χ^2/NDF : 6532086.1/34

In: 0.000+/-0.000 χ^2/NDF : 1190243.0/17

Out: 0.000+/-0.000 χ^2/NDF : 4488403.0/21

All: 0.000+/-0.000 χ^2/NDF : 7025810.4/39

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 150.722 $\pm$ 667.029 χ^2 /NDF: 17.7/15

Left Out: -612.920 $\pm$ 1350.616 χ^2 /NDF:4.3/2

Right Out: 54.106 $\pm$ 655.266 χ^2 /NDF: 9.0/18

Left In: 1876.008 $\pm$ 1466.512 χ^2 /NDF:0.5/1

Left: 529.323 $\pm$ 993.479 χ^2 /NDF: 6.4/4

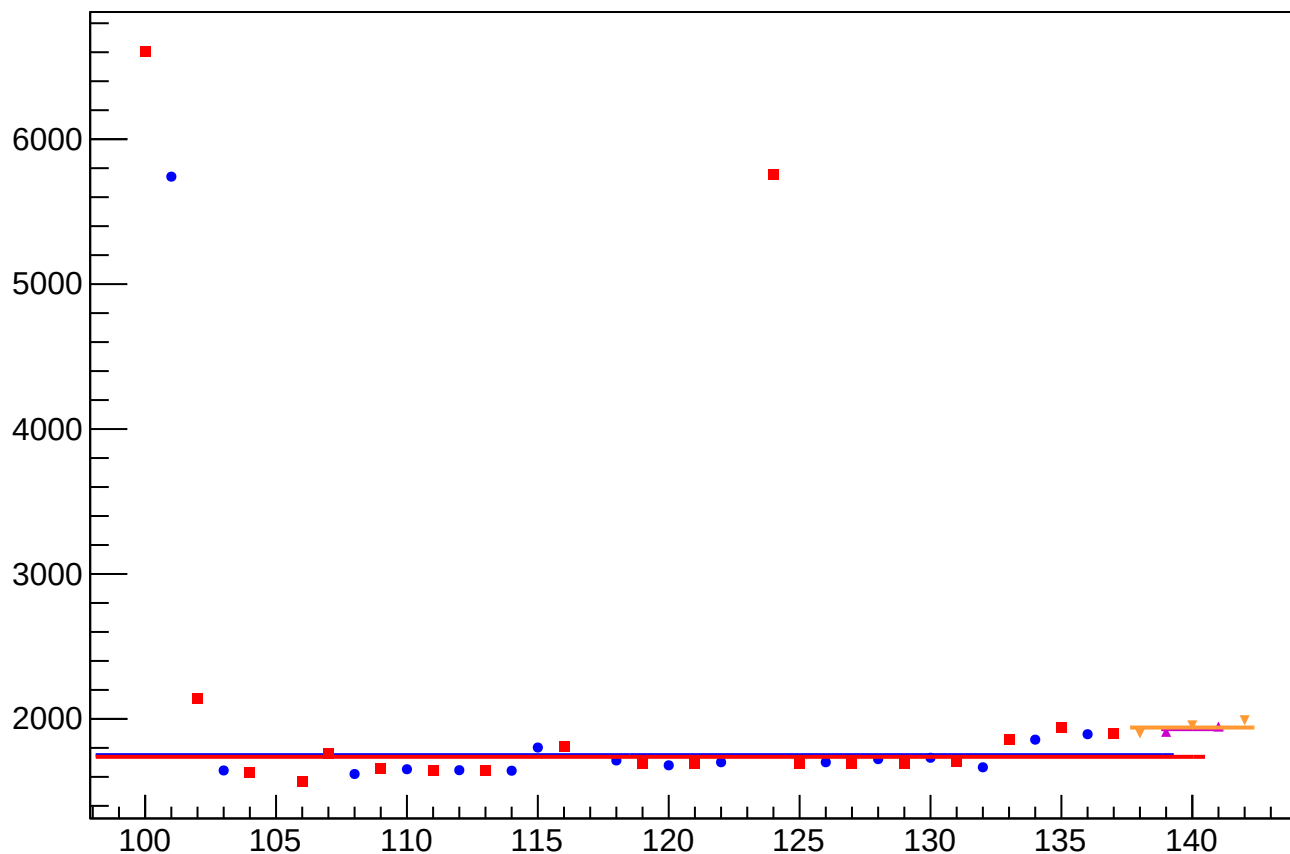
Right: 101.554 $\pm$ 467.446 χ^2 /NDF: 26.6/34

In: 446.465 $\pm$ 607.173 χ^2 /NDF:19.3/17

Out: -72.985 $\pm$ 589.545 χ^2 /NDF:13.4/21

All: 179.090 $\pm$ 422.966 χ^2 /NDF: 33.1/39

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1749.864+/-0.472 χ^2/NDF : 669576.0/15

Left Out: 1940.455+/-0.955 χ^2/NDF :1383.1/2

Right Out: 1738.493+/-0.460 χ^2/NDF : 304493.3/18

Left In: 1929.351+/-1.037 χ^2/NDF :305.8/1

Left: 1935.359+/-0.702 χ^2/NDF : 1750.9/4

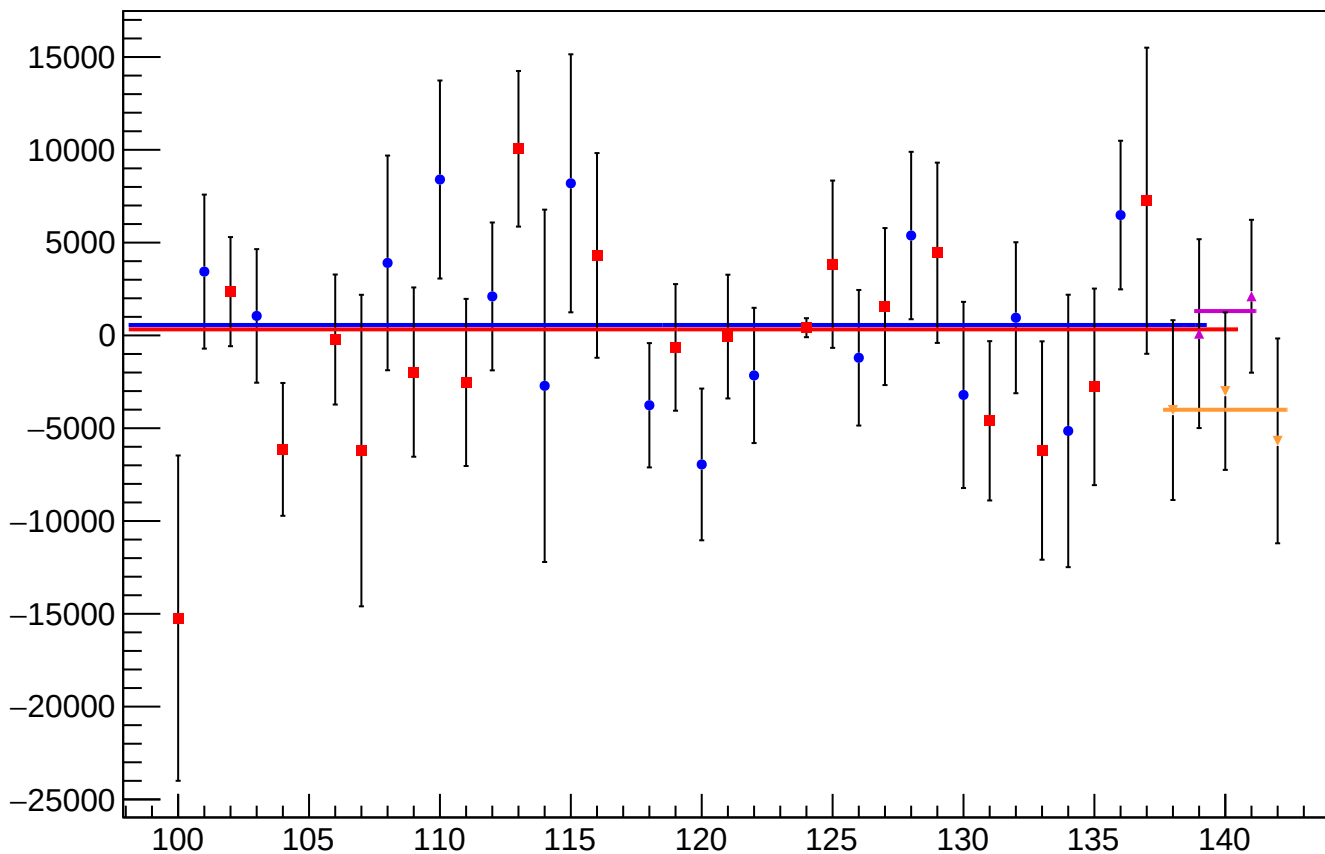
Right: 1744.036+/-0.329 χ^2/NDF : 974367.2/34

In: 1780.631+/-0.429 χ^2/NDF :694704.9/17

Out: 1776.517+/-0.414 χ^2/NDF :342177.1/21

All: 1778.501+/-0.298 χ^2/NDF : 1036929.6/39

asym_atr1l2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 562.339 $\pm$ 1101.163 χ^2 /NDF: 14.8/15

Left Out: -4006.300 $\pm$ 2762.704 χ^2 /NDF:0.1/2

Right Out: 325.567 $\pm$ 457.948 χ^2 /NDF: 19.2/18

Left In: 1312.417 $\pm$ 3201.238 χ^2 /NDF:0.1/1

Left: -1735.928 $\pm$ 2091.525 χ^2 /NDF: 1.8/4

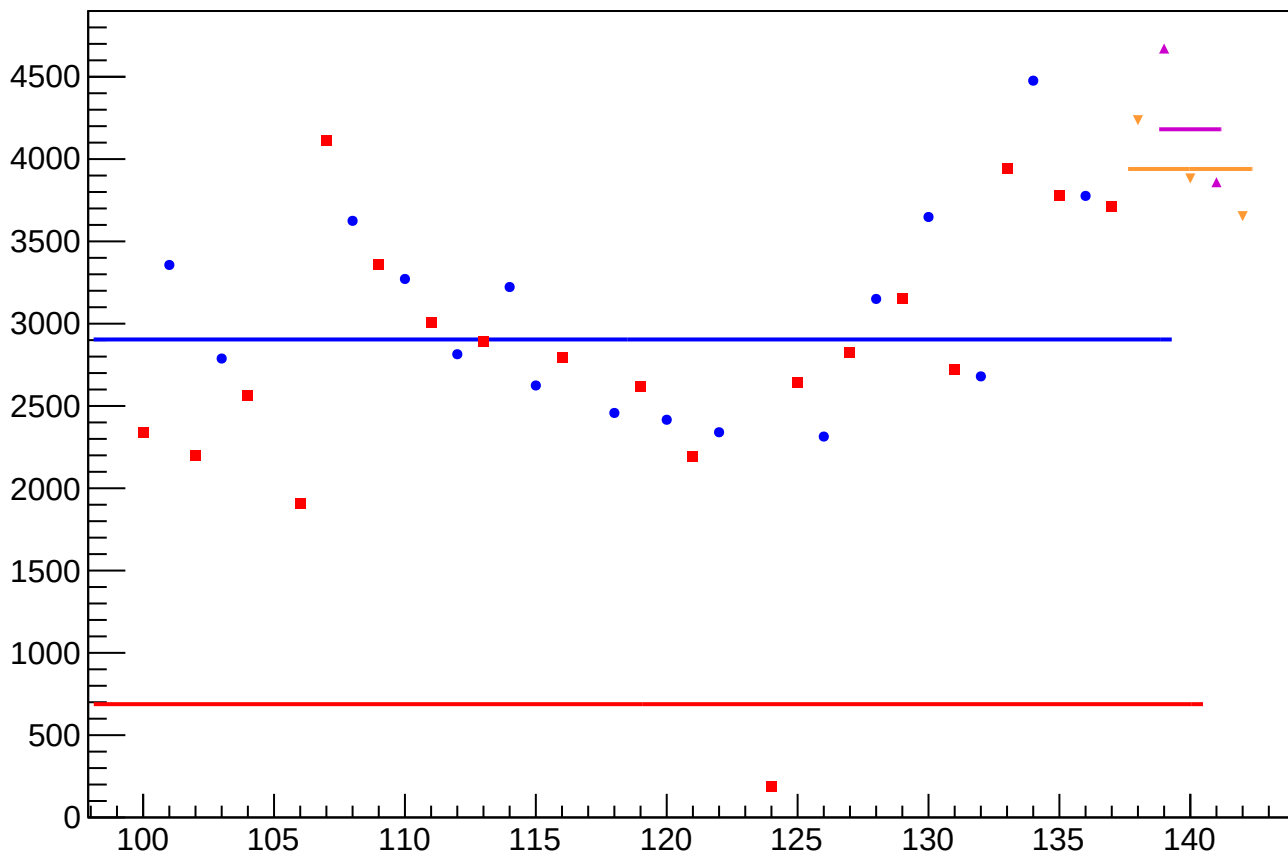
Right: 360.479 $\pm$ 422.840 χ^2 /NDF: 34.1/34

In: 641.700 $\pm$ 1041.281 χ^2 /NDF:15.0/17

Out: 209.724 $\pm$ 451.783 χ^2 /NDF:21.8/21

All: 278.159 $\pm$ 414.455 χ^2 /NDF: 36.9/39

asym_atr1l2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 2904.059+/-0.779 χ^2/NDF : 479774.3/15

Left Out: 3939.967+/-1.954 χ^2/NDF :13255.7/2

Right Out: 688.319+/-0.324 χ^2/NDF : 10148914.1/18

Left In: 4181.070+/-2.264 χ^2/NDF :30778.4/1

Left: 4042.885+/-1.479 χ^2/NDF : 50536.3/4

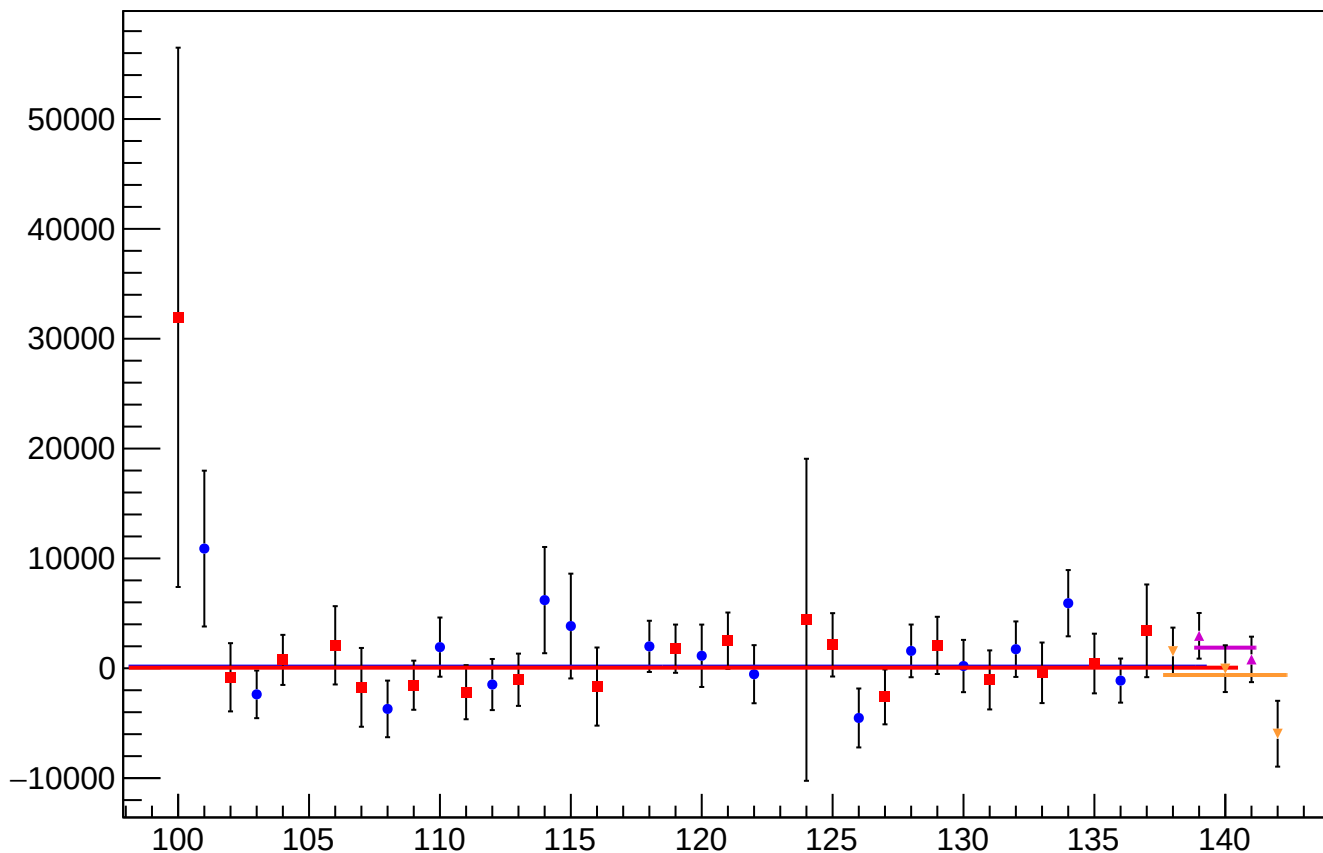
Right: 1015.033+/-0.299 χ^2/NDF : 17532420.1/34

In: 3039.172+/-0.736 χ^2/NDF :795140.5/17

Out: 775.274+/-0.319 χ^2/NDF :12858643.6/21

All: 1133.928+/-0.293 χ^2/NDF : 21609904.6/3

cor_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 150.254+/-667.029 χ^2/NDF : 17.6/15

Left Out: -613.098+/-1350.616 χ^2/NDF :4.3/2

Right Out: 54.158+/-655.266 χ^2/NDF : 9.0/18

Left In: 1876.340+/-1466.512 χ^2/NDF :0.5/1

Left: 529.378+/-993.479 χ^2/NDF : 6.4/4

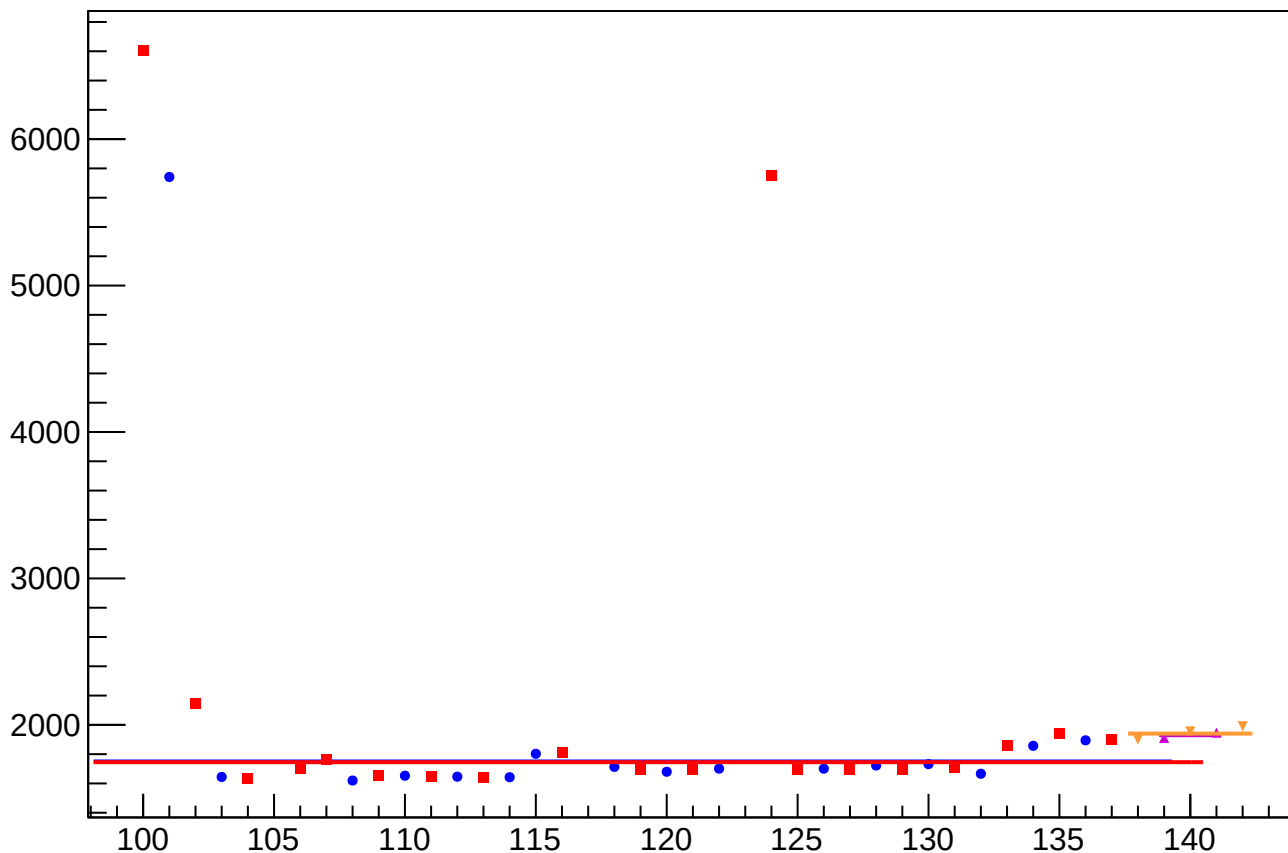
Right: 101.351+/-467.446 χ^2/NDF : 26.6/34

In: 446.134+/-607.173 χ^2/NDF :19.3/17

Out: -72.977+/-589.545 χ^2/NDF :13.4/21

All: 178.934+/-422.966 χ^2/NDF : 33.1/39

cor_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1749.864+/-0.472 χ^2/NDF : 669576.1/15

Left Out: 1940.455+/-0.955 χ^2/NDF :1383.1/2

Right Out: 1745.188+/-0.462 χ^2/NDF : 297979.0/18

Left In: 1929.351+/-1.037 χ^2/NDF :305.8/1

Left: 1935.359+/-0.702 χ^2/NDF : 1750.9/4

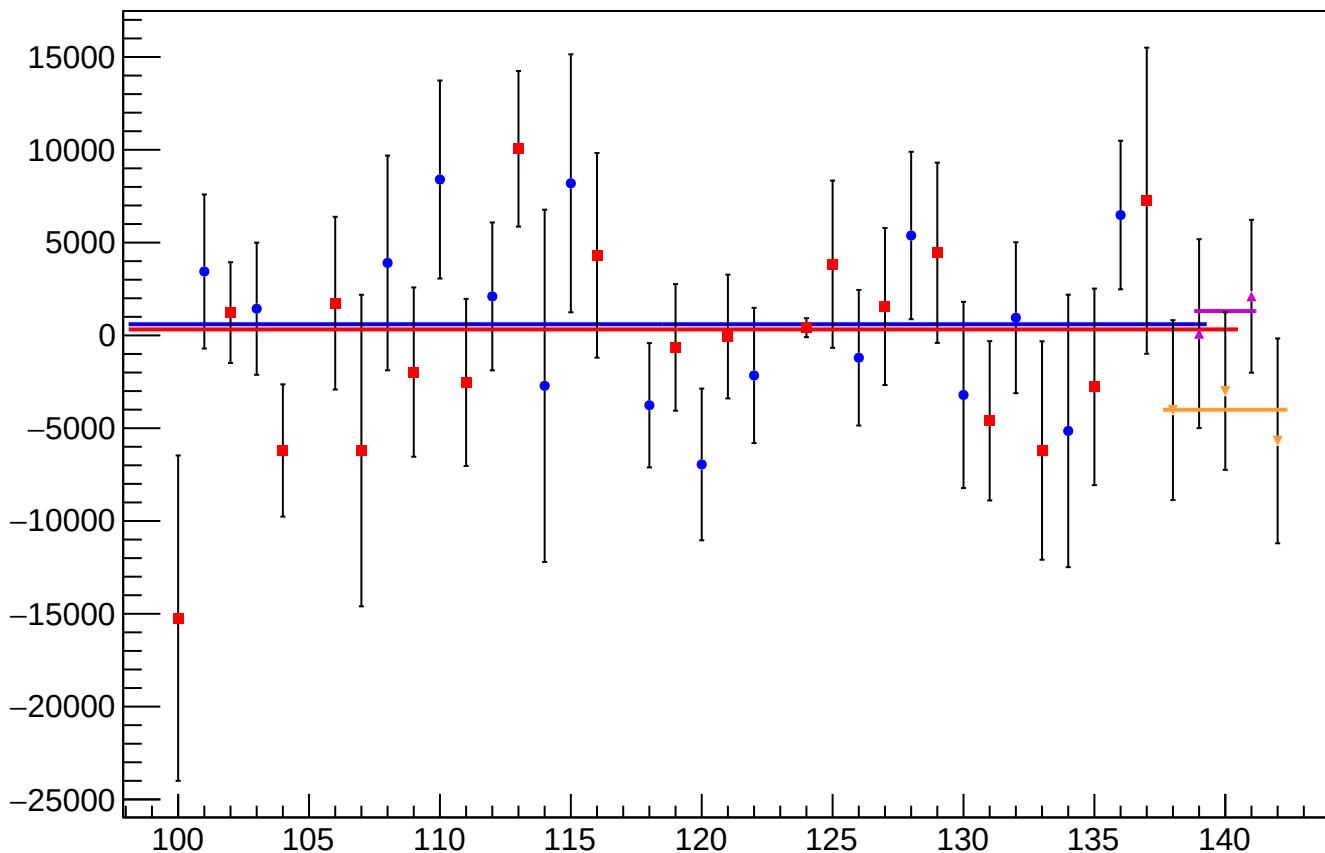
Right: 1747.476+/-0.330 χ^2/NDF : 967605.3/34

In: 1780.631+/-0.429 χ^2/NDF :694705.2/17

Out: 1782.168+/-0.416 χ^2/NDF :333249.6/21

All: 1781.425+/-0.299 χ^2/NDF : 1027961.4/39

asym_atr1l2_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 600.202 $\pm$ 1100.125 χ^2 /NDF: 14.9/15

Left Out: -4006.620 $\pm$ 2762.714 χ^2 /NDF:0.1/2

Right Out: 323.164 $\pm$ 458.862 χ^2 /NDF: 19.0/18

Left In: 1312.259 $\pm$ 3201.229 χ^2 /NDF:0.1/1

Left: -1736.163 $\pm$ 2091.526 χ^2 /NDF: 1.8/4

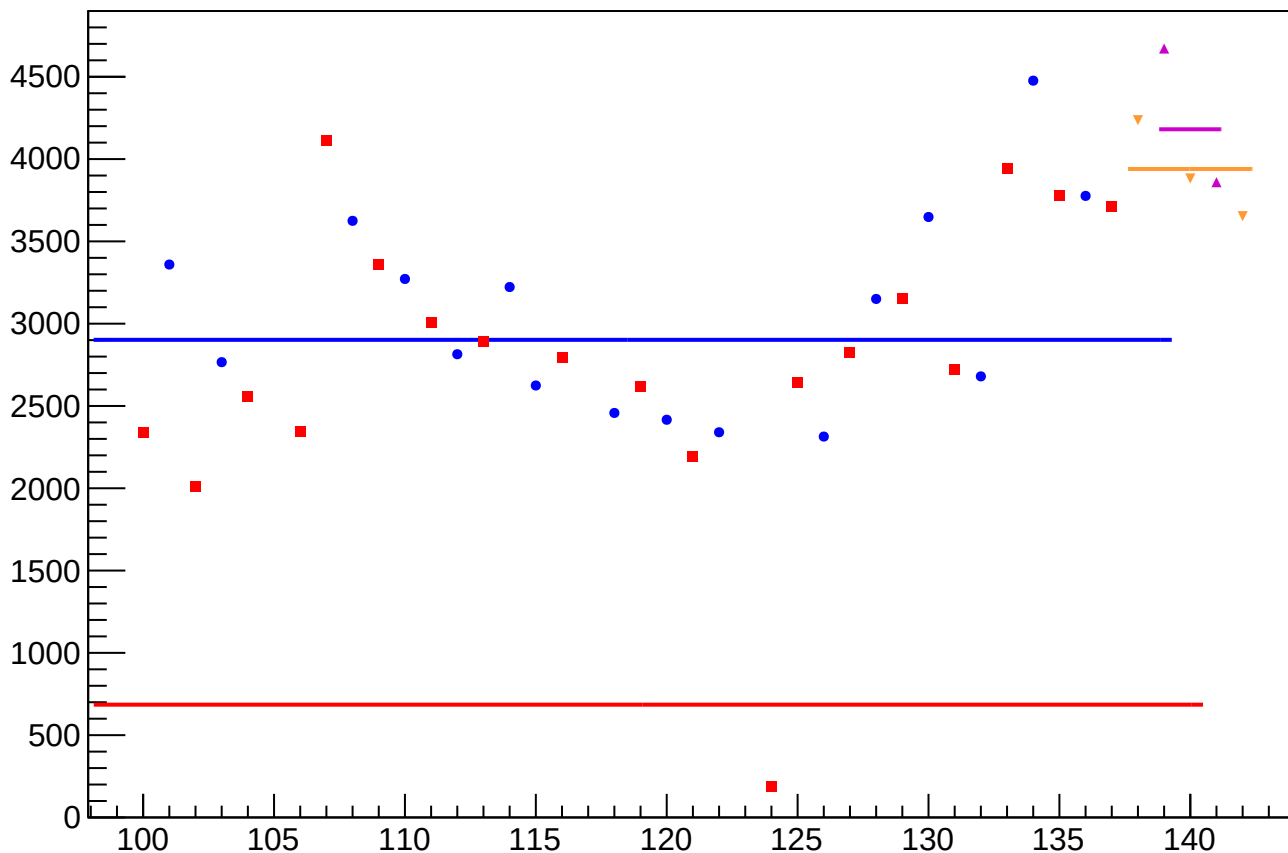
Right: 364.218 $\pm$ 423.500 χ^2 /NDF: 33.9/34

In: 675.413 $\pm$ 1040.403 χ^2 /NDF:15.0/17

Out: 206.928 $\pm$ 452.661 χ^2 /NDF:21.5/21

All: 281.495 $\pm$ 415.077 χ^2 /NDF: 36.7/39

asym_atr1l2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 2901.861 $\pm$ 0.778 χ^2/NDF : 480934.2/15

Left Out: 3939.983 $\pm$ 1.954 χ^2/NDF : 13254.3/2

Right Out: 685.257 $\pm$ 0.324 χ^2/NDF : 10105797.4/18

Left In: 4181.060 $\pm$ 2.264 χ^2/NDF : 30777.5/1

Left: 4042.891 $\pm$ 1.479 χ^2/NDF : 50532.5/4

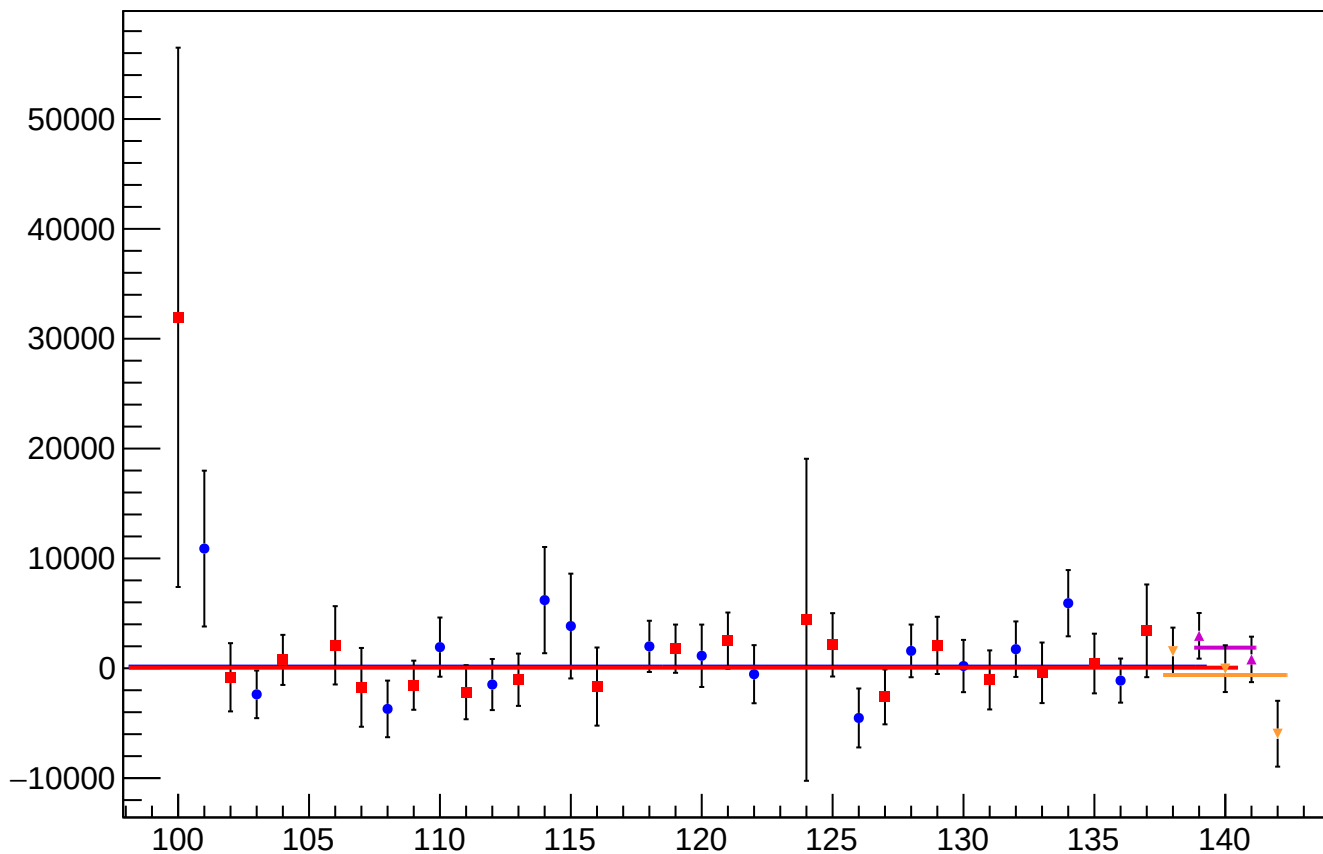
Right: 1013.738 $\pm$ 0.299 χ^2/NDF : 17502877.4/34

In: 3036.978 $\pm$ 0.736 χ^2/NDF : 797333.6/17

Out: 772.632 $\pm$ 0.320 χ^2/NDF : 12820327.5/21

All: 1133.041 $\pm$ 0.294 χ^2/NDF : 21583316.8/3

eigen_cor_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 150.254+/-667.029 χ^2/NDF : 17.6/15

Left Out: -613.098+/-1350.616 χ^2/NDF : 4.3/2

Right Out: 54.158+/-655.266 χ^2/NDF : 9.0/18

Left In: 1876.340+/-1466.512 χ^2/NDF : 0.5/1

Left: 529.378+/-993.479 χ^2/NDF : 6.4/4

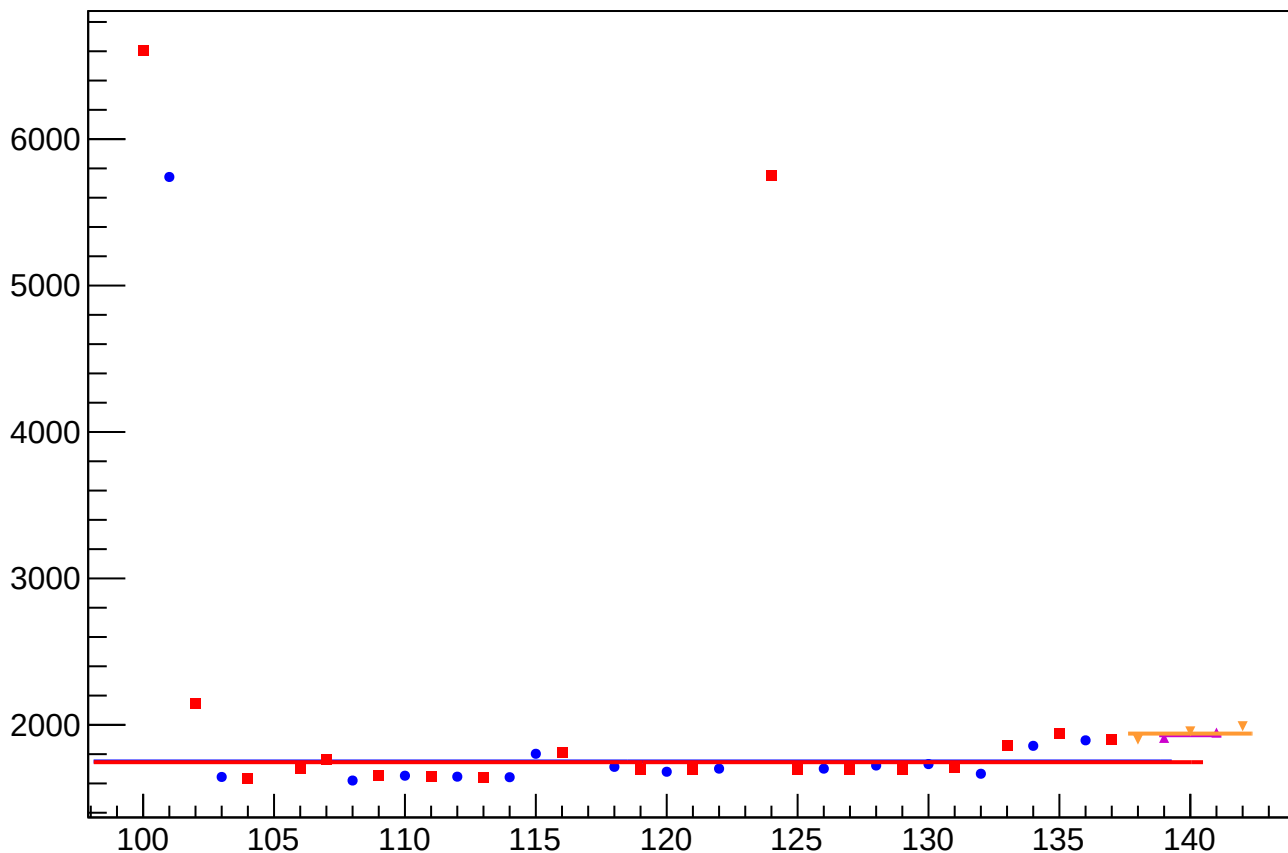
Right: 101.351+/-467.446 χ^2/NDF : 26.6/34

In: 446.134+/-607.173 χ^2/NDF : 19.3/17

Out: -72.977+/-589.545 χ^2/NDF : 13.4/21

All: 178.934+/-422.966 χ^2/NDF : 33.1/39

eigen_cor_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1749.864+/-0.472 χ^2/NDF : 669576.1/15

Left Out: 1940.455+/-0.955 χ^2/NDF :1383.1/2

Right Out: 1745.188+/-0.462 χ^2/NDF : 297979.0/18

Left In: 1929.351+/-1.037 χ^2/NDF :305.8/1

Left: 1935.359+/-0.702 χ^2/NDF : 1750.9/4

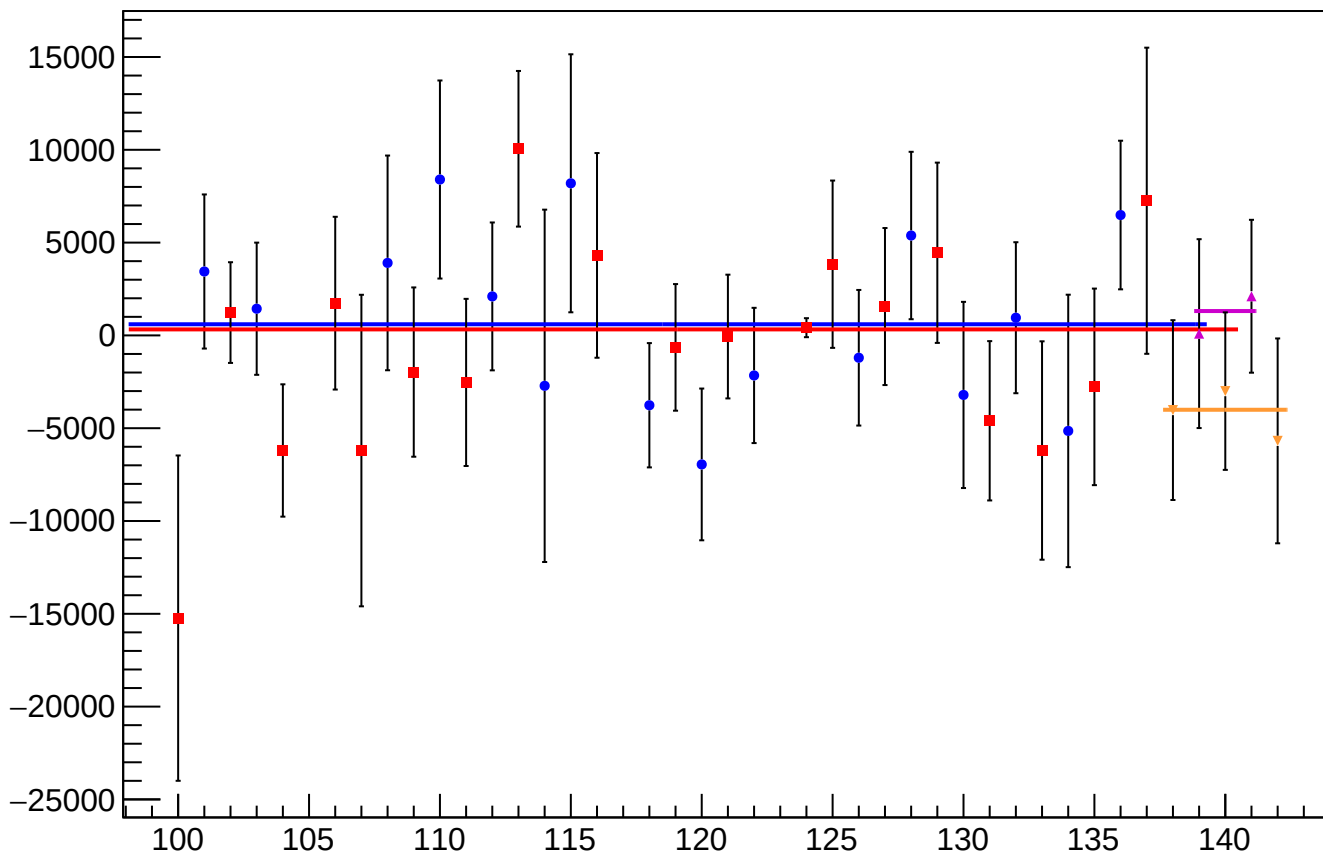
Right: 1747.476+/-0.330 χ^2/NDF : 967605.3/34

In: 1780.631+/-0.429 χ^2/NDF :694705.2/17

Out: 1782.168+/-0.416 χ^2/NDF :333249.6/21

All: 1781.425+/-0.299 χ^2/NDF : 1027961.4/39

asym_atr1l2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 600.202 $\pm$ 1100.125 χ^2 /NDF: 14.9/15

Left Out: -4006.620 $\pm$ 2762.714 χ^2 /NDF:0.1/2

Right Out: 323.164 $\pm$ 458.862 χ^2 /NDF: 19.0/18

Left In: 1312.259 $\pm$ 3201.229 χ^2 /NDF:0.1/1

Left: -1736.163 $\pm$ 2091.526 χ^2 /NDF: 1.8/4

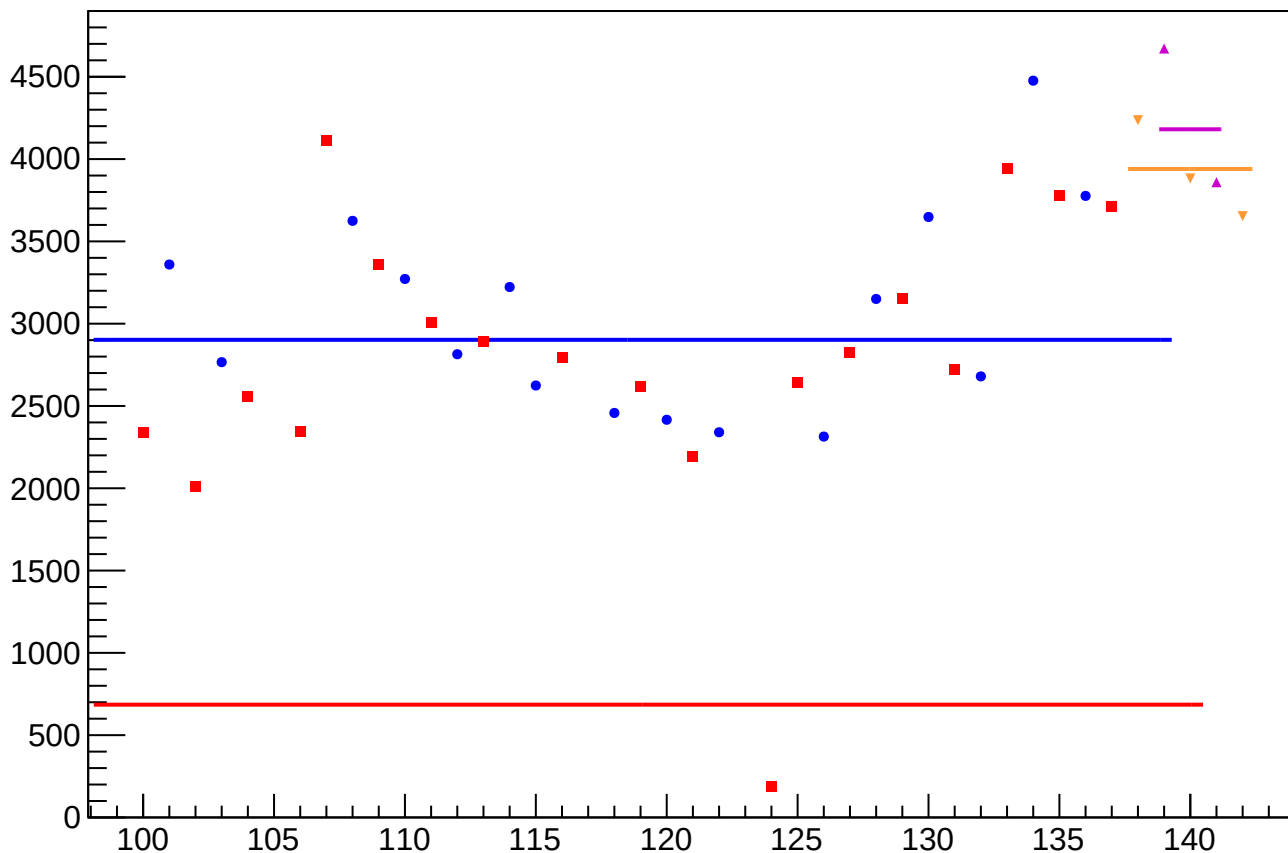
Right: 364.218 $\pm$ 423.500 χ^2 /NDF: 33.9/34

In: 675.413 $\pm$ 1040.403 χ^2 /NDF:15.0/17

Out: 206.928 $\pm$ 452.661 χ^2 /NDF:21.5/21

All: 281.495 $\pm$ 415.077 χ^2 /NDF: 36.7/39

asym_atr1l2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2901.861+/-0.778 χ^2/NDF : 480934.2/15

Left Out: 3939.983+/-1.954 χ^2/NDF :13254.3/2

Right Out: 685.257+/-0.324 χ^2/NDF : 10105797.4/18

Left In: 4181.060+/-2.264 χ^2/NDF :30777.5/1

Left: 4042.891+/-1.479 χ^2/NDF : 50532.5/4

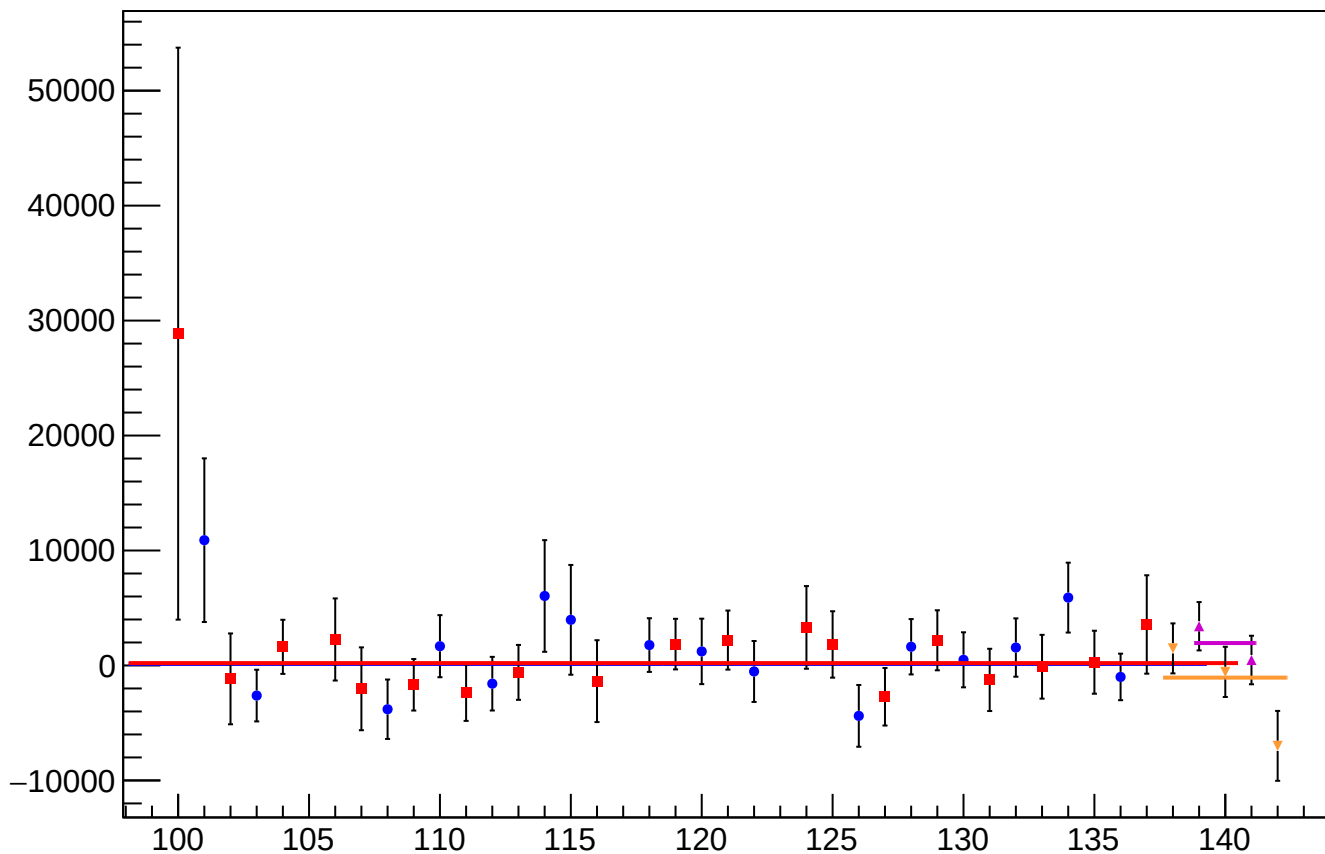
Right: 1013.738+/-0.299 χ^2/NDF : 17502877.4/34

In: 3036.978+/-0.736 χ^2/NDF :797333.6/17

Out: 772.632+/-0.320 χ^2/NDF :12820327.5/21

All: 1133.041+/-0.294 χ^2/NDF : 21583316.8/3

dit_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 133.838+/-671.621 χ^2/NDF : 17.3/15

Left Out: -1057.201+/-1374.602 χ^2/NDF : 5.2/2

Right Out: 205.424+/-654.444 χ^2/NDF : 9.7/18

Left In: 1950.617+/-1489.776 χ^2/NDF : 1.0/1

Left: 325.961+/-1010.257 χ^2/NDF : 8.4/4

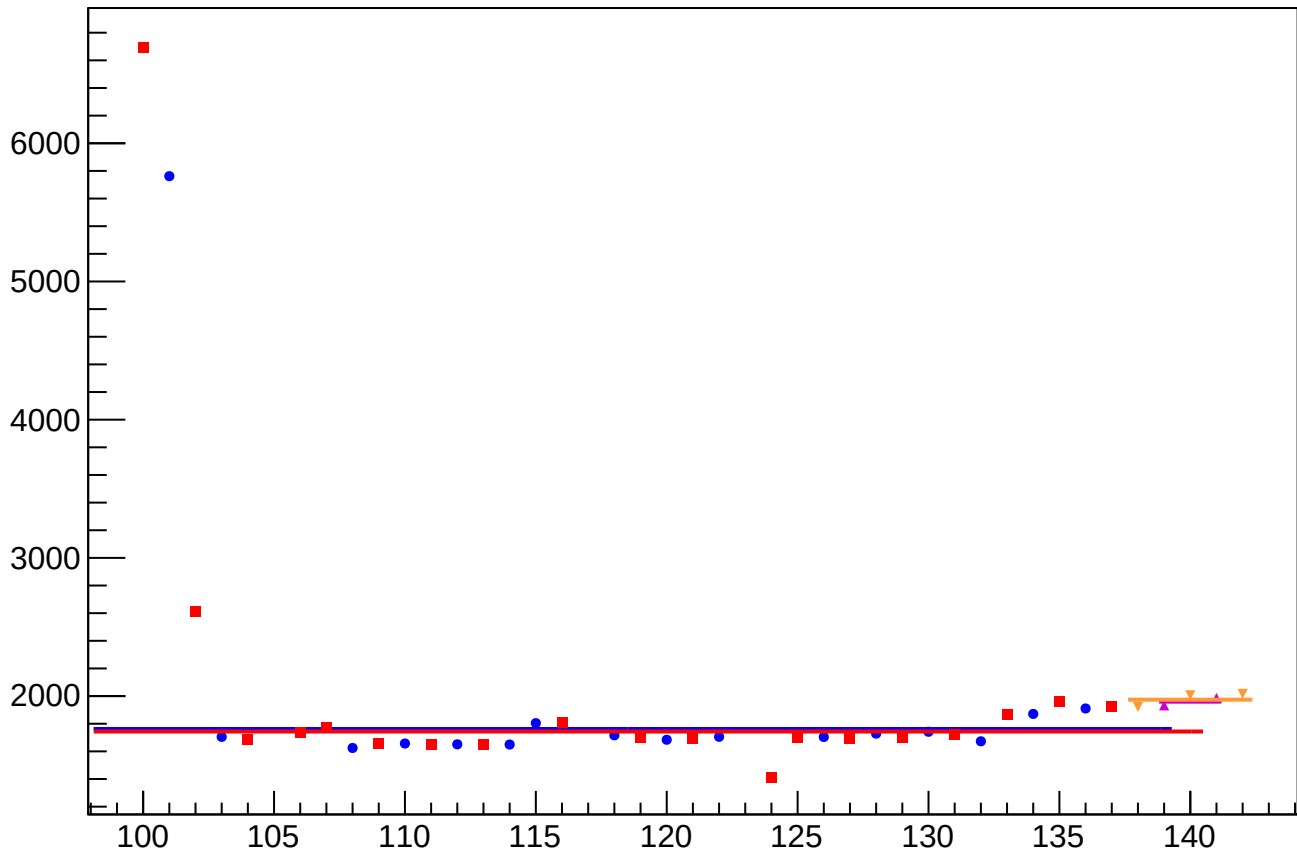
Right: 170.558+/-468.717 χ^2/NDF : 27.0/34

In: 440.709+/-612.277 χ^2/NDF : 19.5/17

Out: -27.889+/-590.893 χ^2/NDF : 15.6/21

All: 198.085+/-425.184 χ^2/NDF : 35.4/39

dit_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1762.052 $\pm$ 0.475 χ^2 /NDF: 667696.6/15

Left Out: 1974.072 $\pm$ 0.972 χ^2 /NDF:1989.2/2

Right Out: 1743.723 $\pm$ 0.461 χ^2 /NDF: 227762.1/18

Left In: 1959.595 $\pm$ 1.053 χ^2 /NDF:653.0/1

Left: 1967.415 $\pm$ 0.714 χ^2 /NDF: 2744.2/4

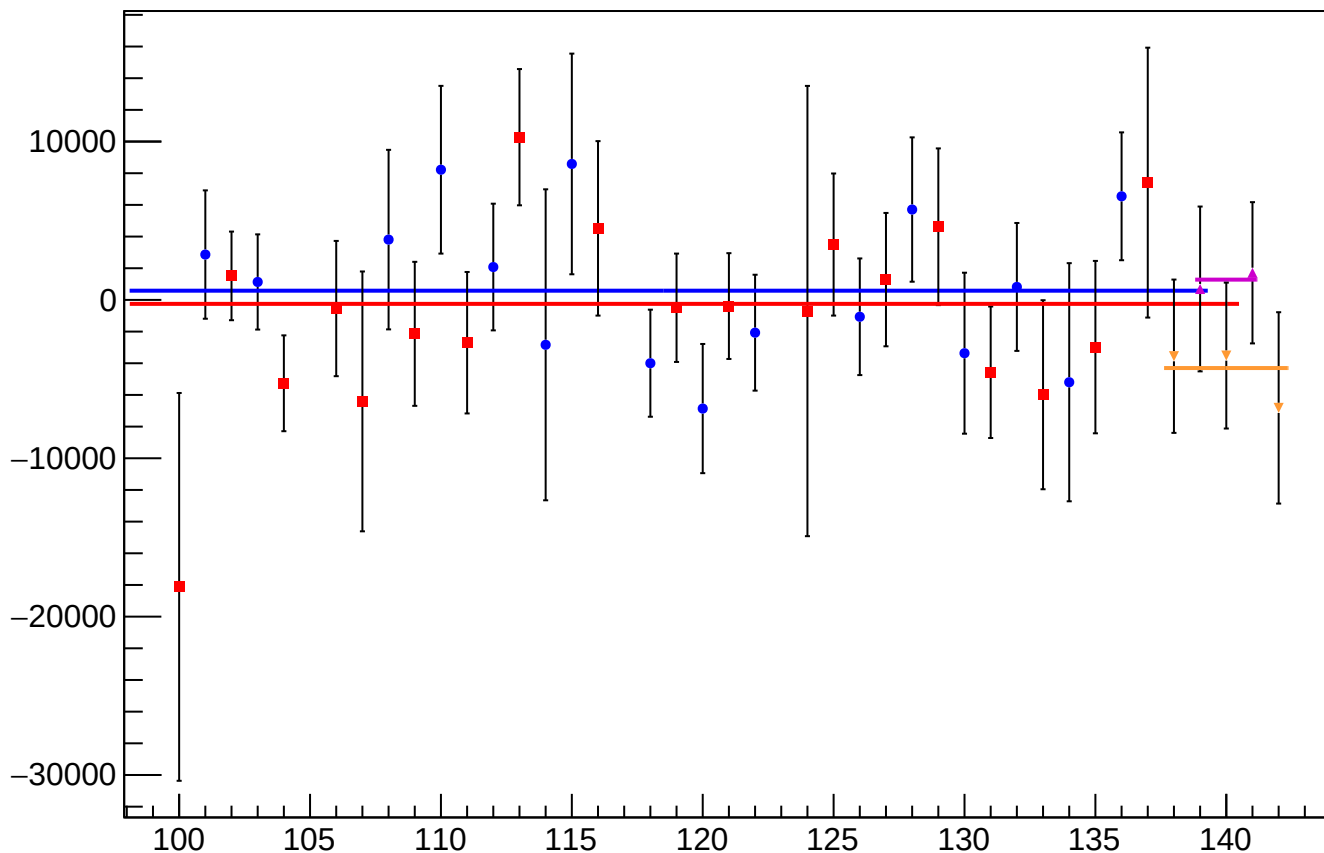
Right: 1752.624 $\pm$ 0.331 χ^2 /NDF: 896224.9/34

In: 1795.419 $\pm$ 0.433 χ^2 /NDF:697575.1/17

Out: 1786.088 $\pm$ 0.417 χ^2 /NDF:275584.8/21

All: 1790.577 $\pm$ 0.300 χ^2 /NDF: 973400.9/39

asym_atr1l2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 582.223 $\pm$ 1081.481 χ^2 /NDF: 14.9/15

Left Out: -4302.548 $\pm$ 2921.005 χ^2 /NDF: 0.2/2

Right Out: -250.224 $\pm$ 1021.012 χ^2 /NDF: 17.9/18

Left In: 1280.575 $\pm$ 3386.370 χ^2 /NDF: 0.0/1

Left: -1920.685 $\pm$ 2211.843 χ^2 /NDF: 1.8/4

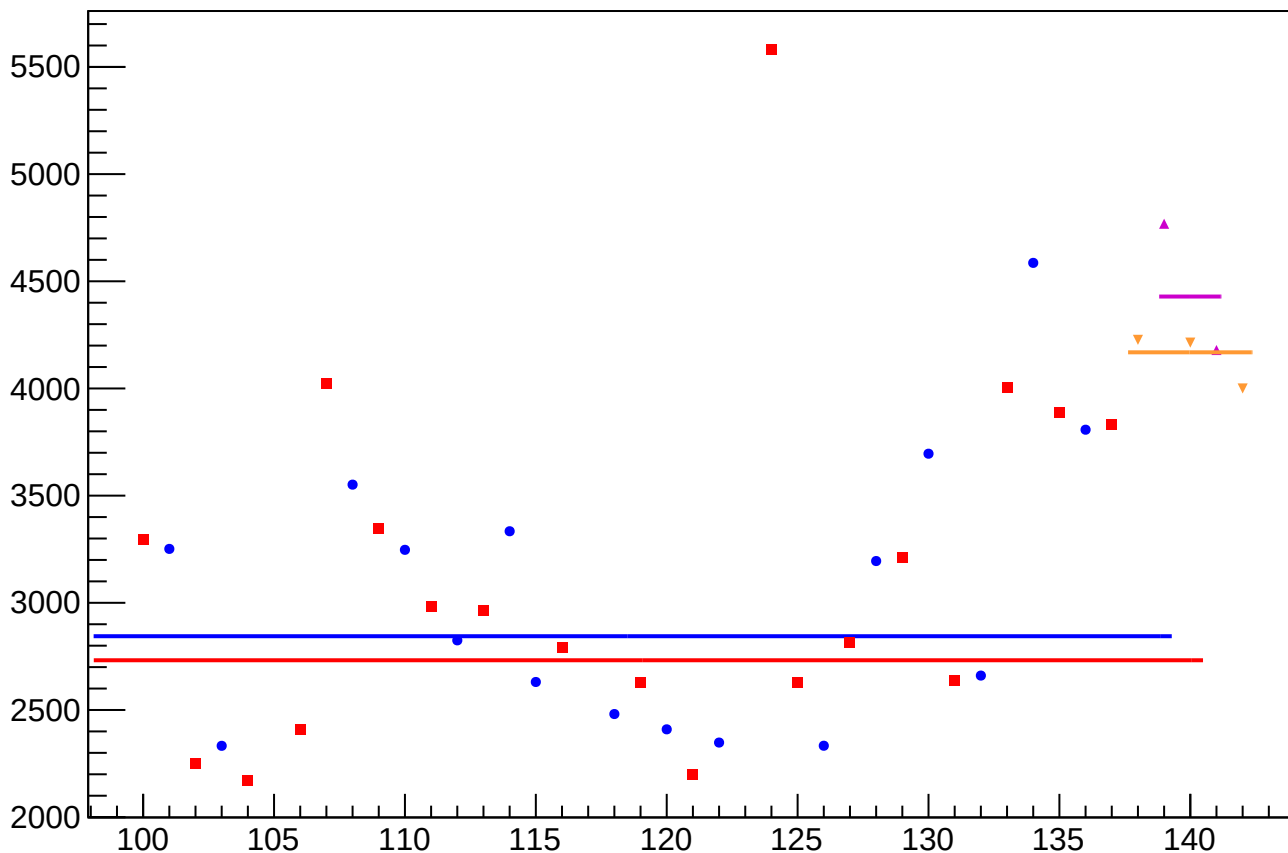
Right: 142.078 $\pm$ 742.422 χ^2 /NDF: 33.1/34

In: 646.858 $\pm$ 1030.219 χ^2 /NDF: 14.9/17

Out: -691.428 $\pm$ 963.829 χ^2 /NDF: 19.9/21

All: -66.793 $\pm$ 703.831 χ^2 /NDF: 35.7/39

asym_atr1l2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2844.153+/-0.765 χ^2/NDF : 542032.5/15

Left Out: 4168.619+/-2.065 χ^2/NDF : 2039.4/2

Right Out: 2731.978+/-0.722 χ^2/NDF : 611275.1/18

Left In: 4428.854+/-2.395 χ^2/NDF : 14778.2/1

Left: 4279.640+/-1.564 χ^2/NDF : 23589.8/4

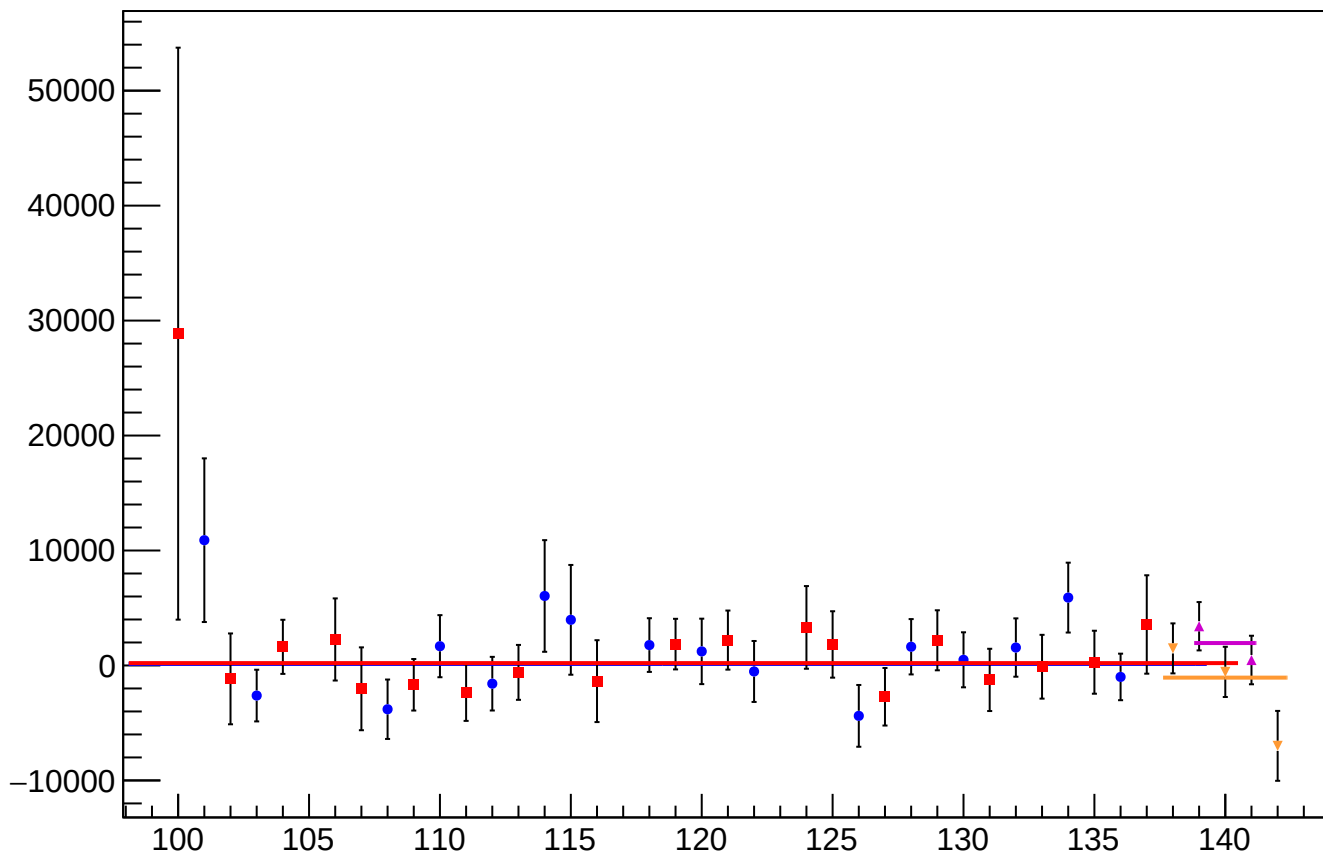
Right: 2784.841+/-0.525 χ^2/NDF : 1164684.5/34

In: 2990.821+/-0.728 χ^2/NDF : 954256.1/17

Out: 2888.394+/-0.682 χ^2/NDF : 1044436.4/21

All: 2936.201+/-0.498 χ^2/NDF : 2009234.8/39

eigen_dit_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 133.837 $\pm$ 671.621 χ^2 /NDF: 17.3/15

Left Out: -1057.215 $\pm$ 1374.602 χ^2 /NDF: 5.2/2

Right Out: 205.422 $\pm$ 654.444 χ^2 /NDF: 9.7/18

Left In: 1950.616 $\pm$ 1489.777 χ^2 /NDF: 1.0/1

Left: 325.953 $\pm$ 1010.257 χ^2 /NDF: 8.4/4

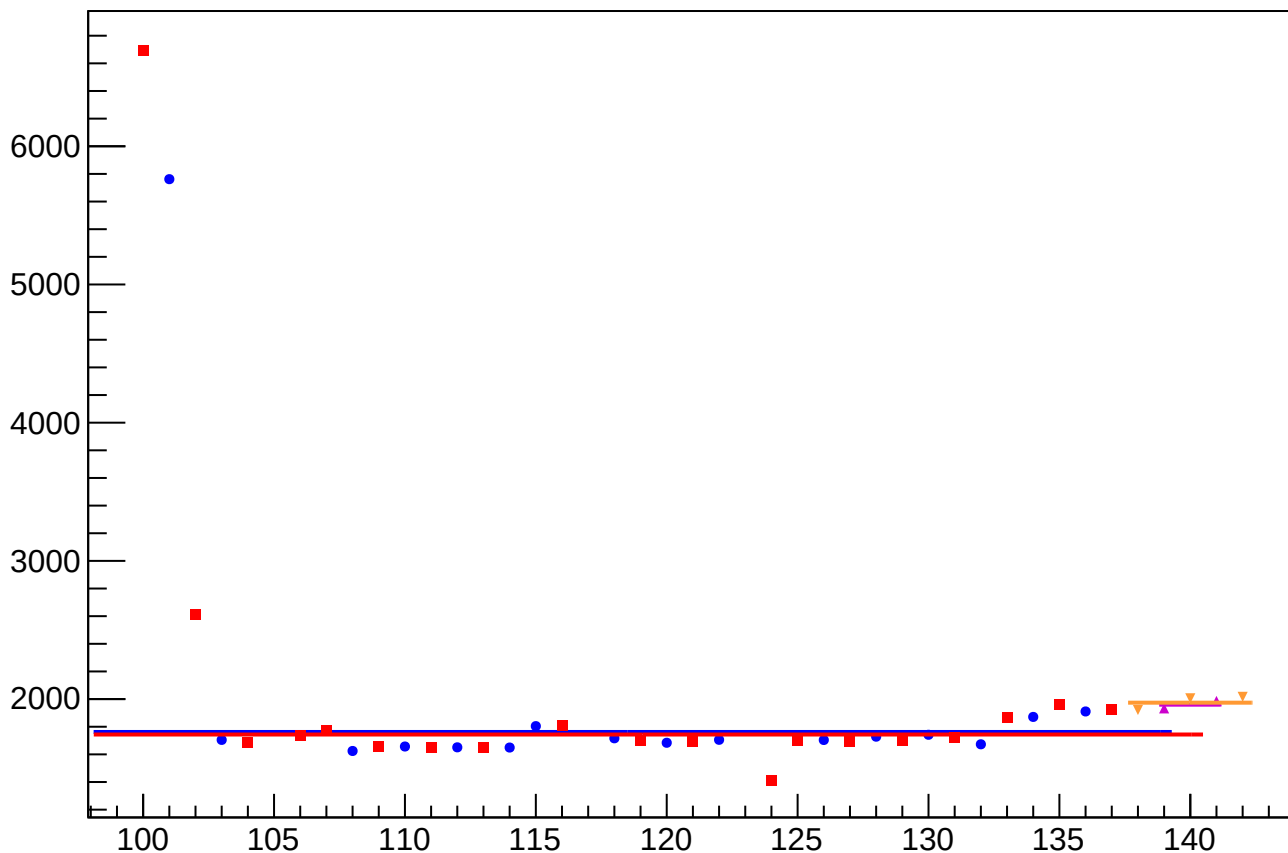
Right: 170.557 $\pm$ 468.717 χ^2 /NDF: 27.0/34

In: 440.708 $\pm$ 612.277 χ^2 /NDF: 19.5/17

Out: -27.893 $\pm$ 590.893 χ^2 /NDF: 15.6/21

All: 198.082 $\pm$ 425.184 χ^2 /NDF: 35.4/39

eigen_dit_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1762.052+/-0.475 χ^2/NDF : 667696.6/15

Left Out: 1974.073+/-0.972 χ^2/NDF :1989.3/2

Right Out: 1743.723+/-0.461 χ^2/NDF : 227762.1/18

Left In: 1959.596+/-1.053 χ^2/NDF :653.0/1

Left: 1967.416+/-0.714 χ^2/NDF : 2744.3/4

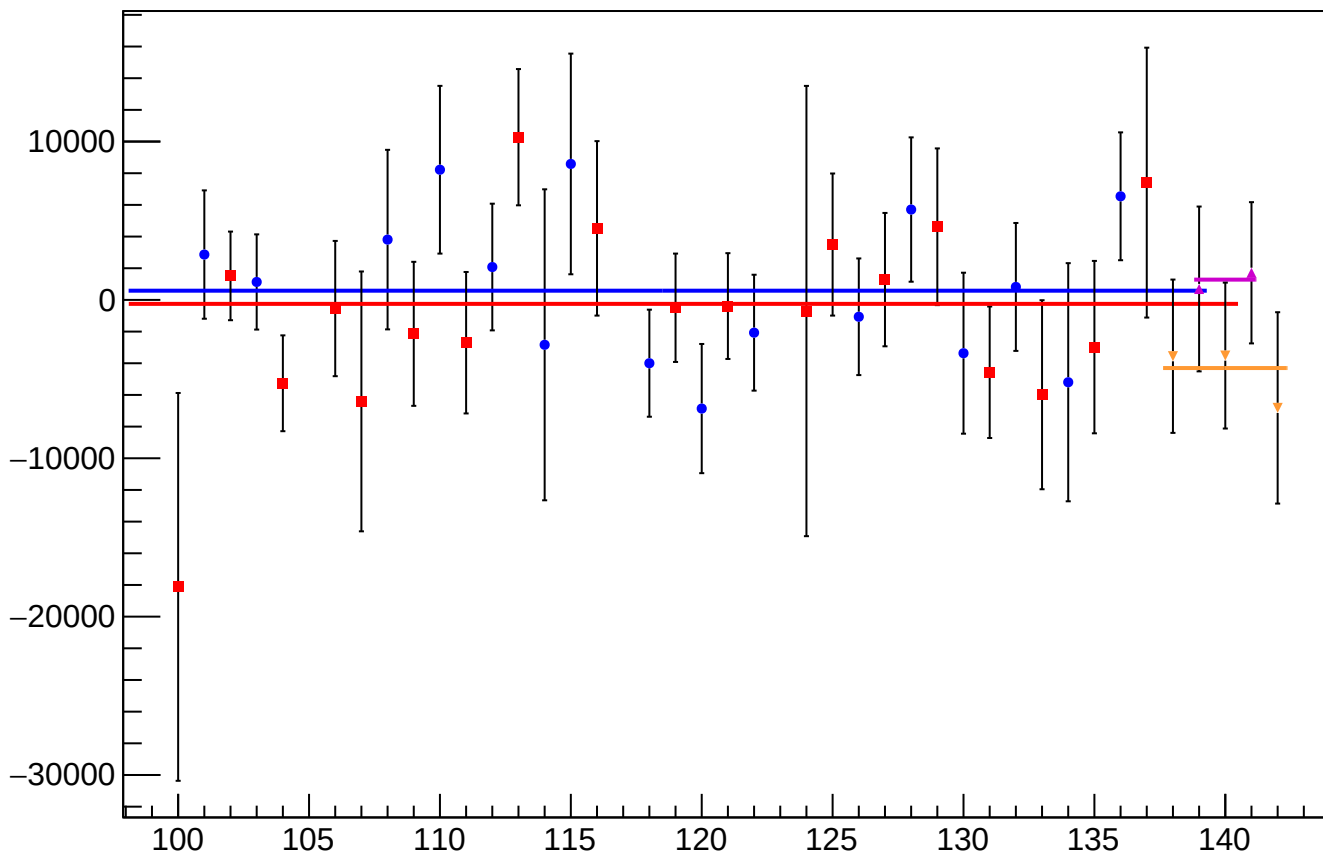
Right: 1752.624+/-0.331 χ^2/NDF : 896224.9/34

In: 1795.419+/-0.433 χ^2/NDF :697575.3/17

Out: 1786.088+/-0.417 χ^2/NDF :275585.2/21

All: 1790.577+/-0.300 χ^2/NDF : 973401.6/39

asym_atr1l2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 582.219+/-1081.478 χ^2/NDF : 14.9/15

Left Out: -4302.567+/-2921.014 χ^2/NDF : 0.2/2

Right Out: -250.225+/-1021.010 χ^2/NDF : 17.9/18

Left In: 1280.575+/-3386.379 χ^2/NDF : 0.0/1

Left: -1920.694+/-2211.849 χ^2/NDF : 1.8/4

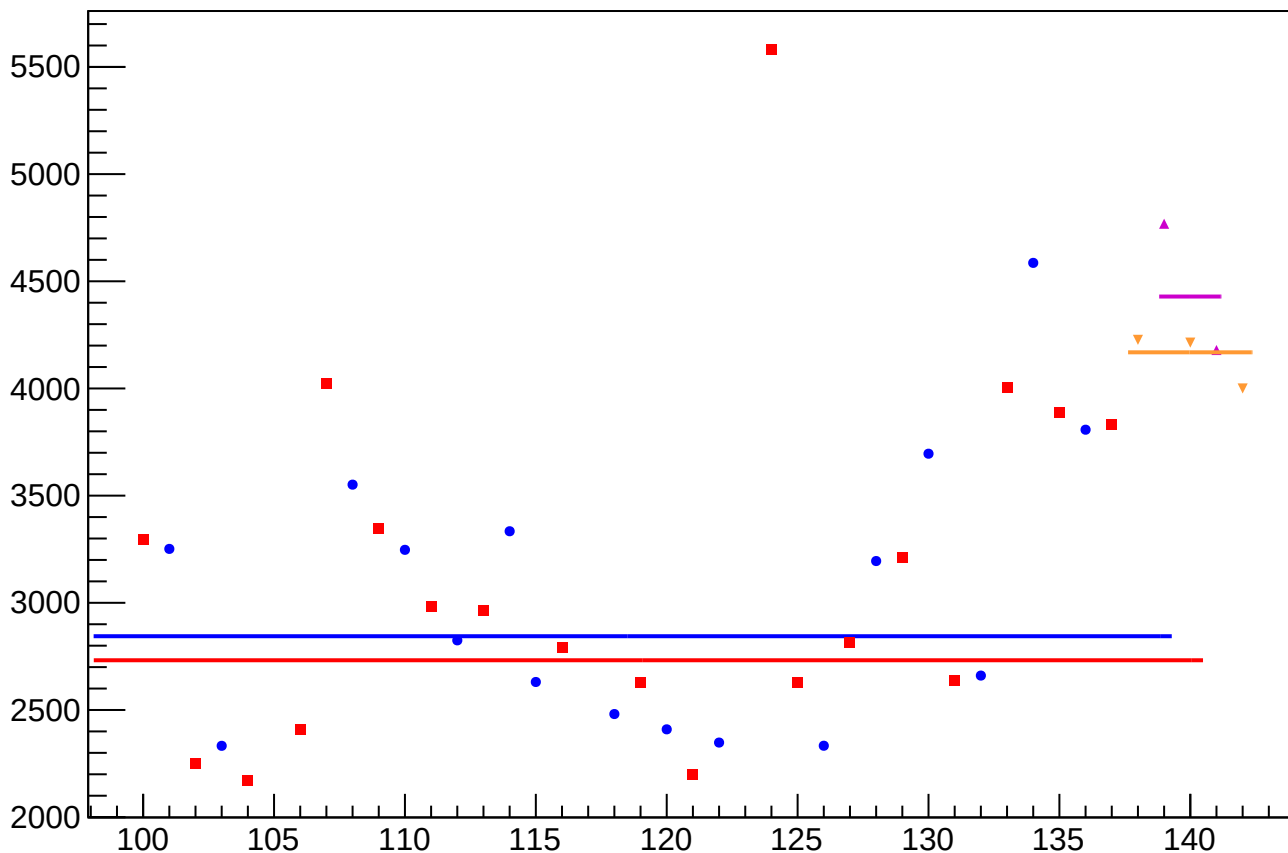
Right: 142.075+/-742.420 χ^2/NDF : 33.1/34

In: 646.853+/-1030.217 χ^2/NDF : 14.9/17

Out: -691.427+/-963.827 χ^2/NDF : 19.9/21

All: -66.794+/-703.830 χ^2/NDF : 35.7/39

asym_atr1l2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2844.145+/-0.765 χ^2/NDF : 542036.2/15

Left Out: 4168.632+/-2.065 χ^2/NDF :2039.3/2

Right Out: 2731.972+/-0.722 χ^2/NDF : 611272.5/18

Left In: 4428.865+/-2.395 χ^2/NDF :14778.8/1

Left: 4279.652+/-1.564 χ^2/NDF : 23590.3/4

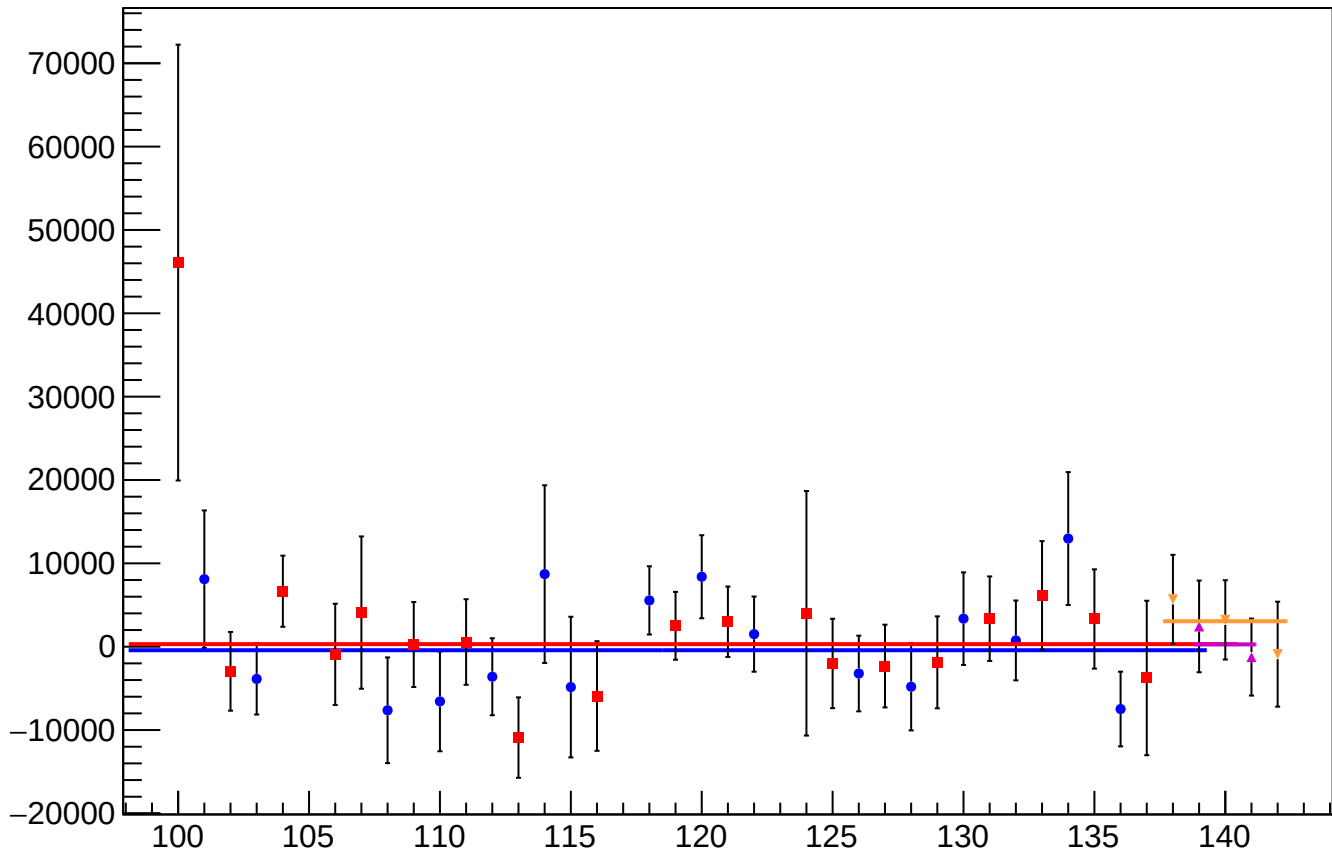
Right: 2784.835+/-0.525 χ^2/NDF : 1164685.2/34

In: 2990.814+/-0.728 χ^2/NDF :954267.9/17

Out: 2888.389+/-0.682 χ^2/NDF :1044442.4/21

All: 2936.195+/-0.498 χ^2/NDF : 2009252.2/39

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -423.131+/-1327.258 χ^2/NDF : 17.9/15

Left Out: 3057.581+/-3091.826 χ^2/NDF : 0.6/2

Right Out: 307.823+/-1275.718 χ^2/NDF : 15.3/18

Left In: 276.411+/-3538.112 χ^2/NDF : 0.3/1

Left: 1853.363+/-2328.147 χ^2/NDF : 1.3/4

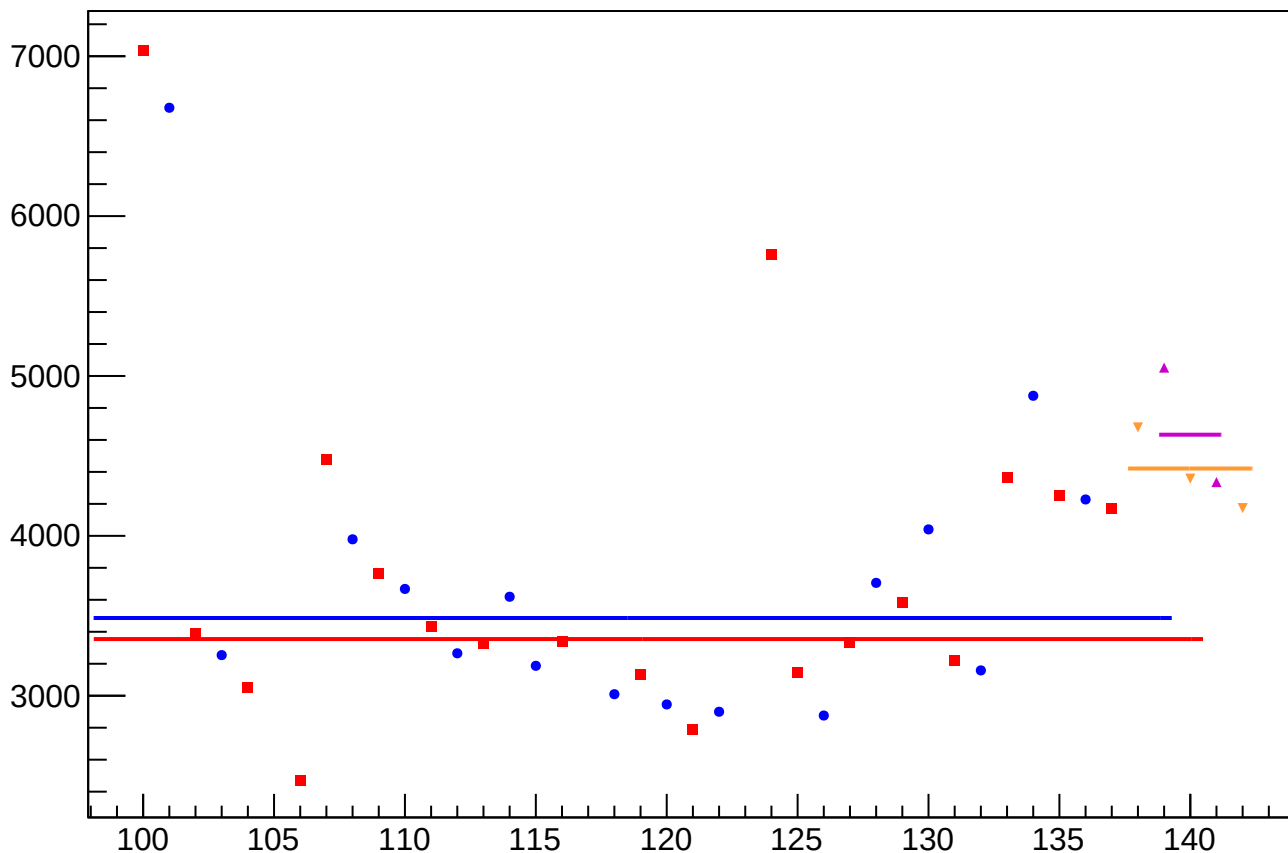
Right: -43.186+/-919.750 χ^2/NDF : 33.3/34

In: -336.833+/-1242.697 χ^2/NDF : 18.2/17

Out: 707.856+/-1179.277 χ^2/NDF : 16.6/21

All: 212.848+/-855.417 χ^2/NDF : 35.2/39

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3486.167 $\pm$ 0.939 χ^2/NDF : 595790.9/15

Left Out: 4421.175 $\pm$ 2.186 χ^2/NDF : 8086.8/2

Right Out: 3354.426 $\pm$ 0.889 χ^2/NDF : 376426.3/18

Left In: 4632.709 $\pm$ 2.502 χ^2/NDF : 19863.7/1

Left: 4512.767 $\pm$ 1.646 χ^2/NDF : 32004.1/4

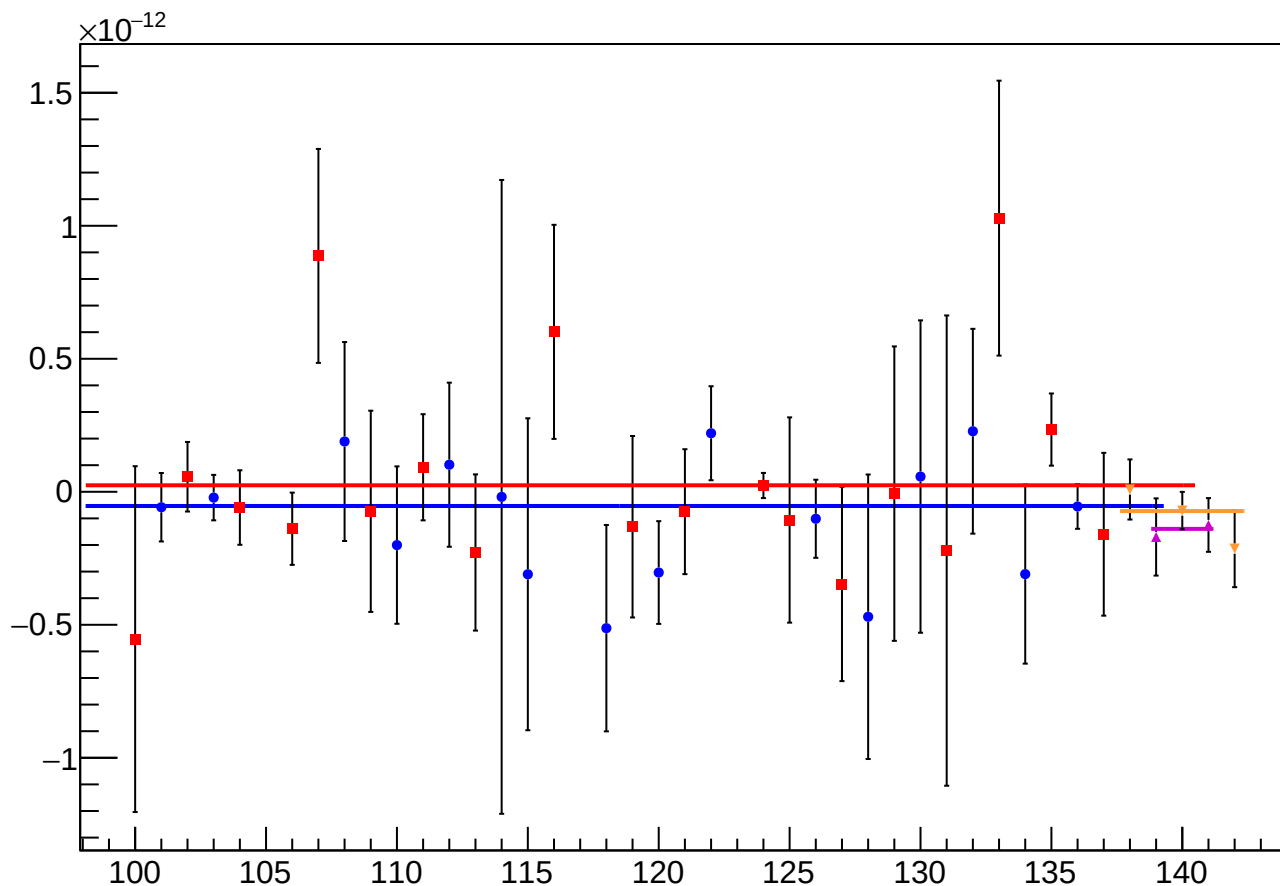
Right: 3416.767 $\pm$ 0.646 χ^2/NDF : 982597.4/34

In: 3627.608 $\pm$ 0.879 χ^2/NDF : 799768.4/17

Out: 3505.930 $\pm$ 0.824 χ^2/NDF : 588780.6/21

All: 3562.856 $\pm$ 0.601 χ^2/NDF : 1398752.9/39

asym_atr1l2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 8.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.1/1

Left: -0.000+/-0.000 χ^2/NDF : 2.0/4

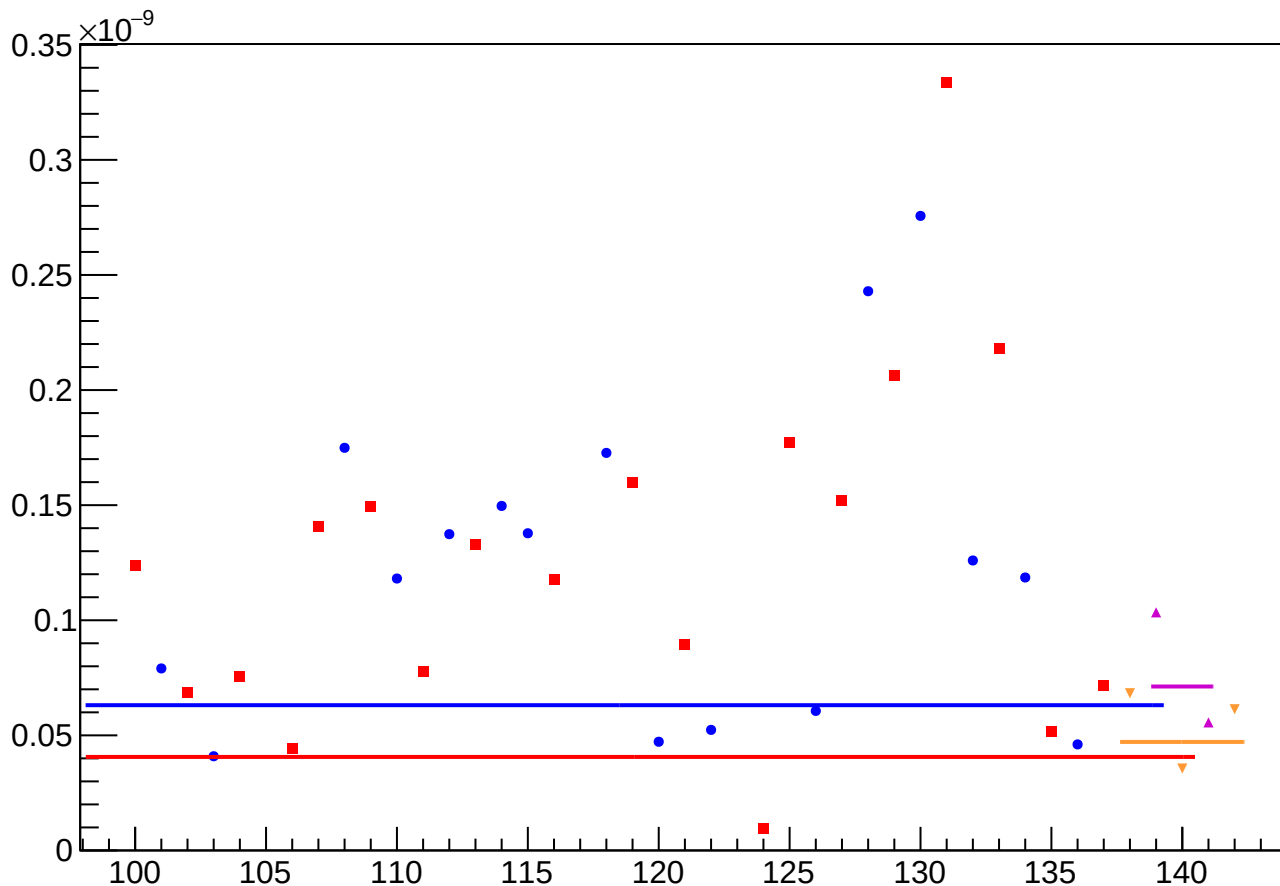
Right: -0.000+/-0.000 χ^2/NDF : 28.8/34

In: -0.000+/-0.000 χ^2/NDF : 9.5/17

Out: -0.000+/-0.000 χ^2/NDF : 22.0/21

All: -0.000+/-0.000 χ^2/NDF : 33.4/39

asym_atr1l2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1432018.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :143095.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3172346.7/18

Left In: 0.000+/-0.000 χ^2/NDF :146245.5/1

Left: 0.000+/-0.000 χ^2/NDF : 406196.9/4

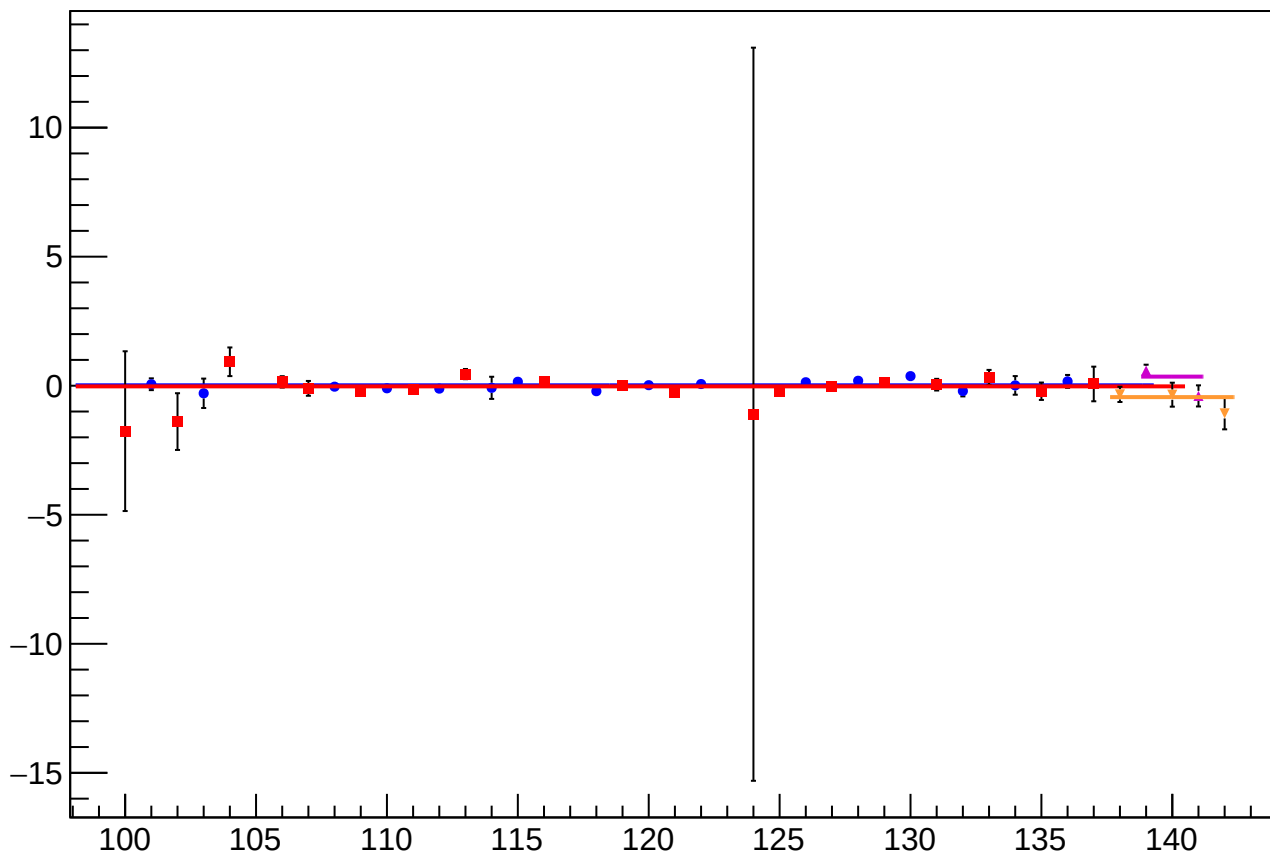
Right: 0.000+/-0.000 χ^2/NDF : 4914964.6/34

In: 0.000+/-0.000 χ^2/NDF :1593169.5/17

Out: 0.000+/-0.000 χ^2/NDF :3335095.6/21

All: 0.000+/-0.000 χ^2/NDF : 5339205.0/39

asym_atr1l2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015+/-0.048 χ^2/NDF : 11.8/15

Left Out: -0.442+/-0.231 χ^2/NDF : 1.2/2

Right Out: -0.026+/-0.047 χ^2/NDF : 22.1/18

Left In: 0.352+/-0.200 χ^2/NDF : 4.4/1

Left: 0.013+/-0.151 χ^2/NDF : 12.3/4

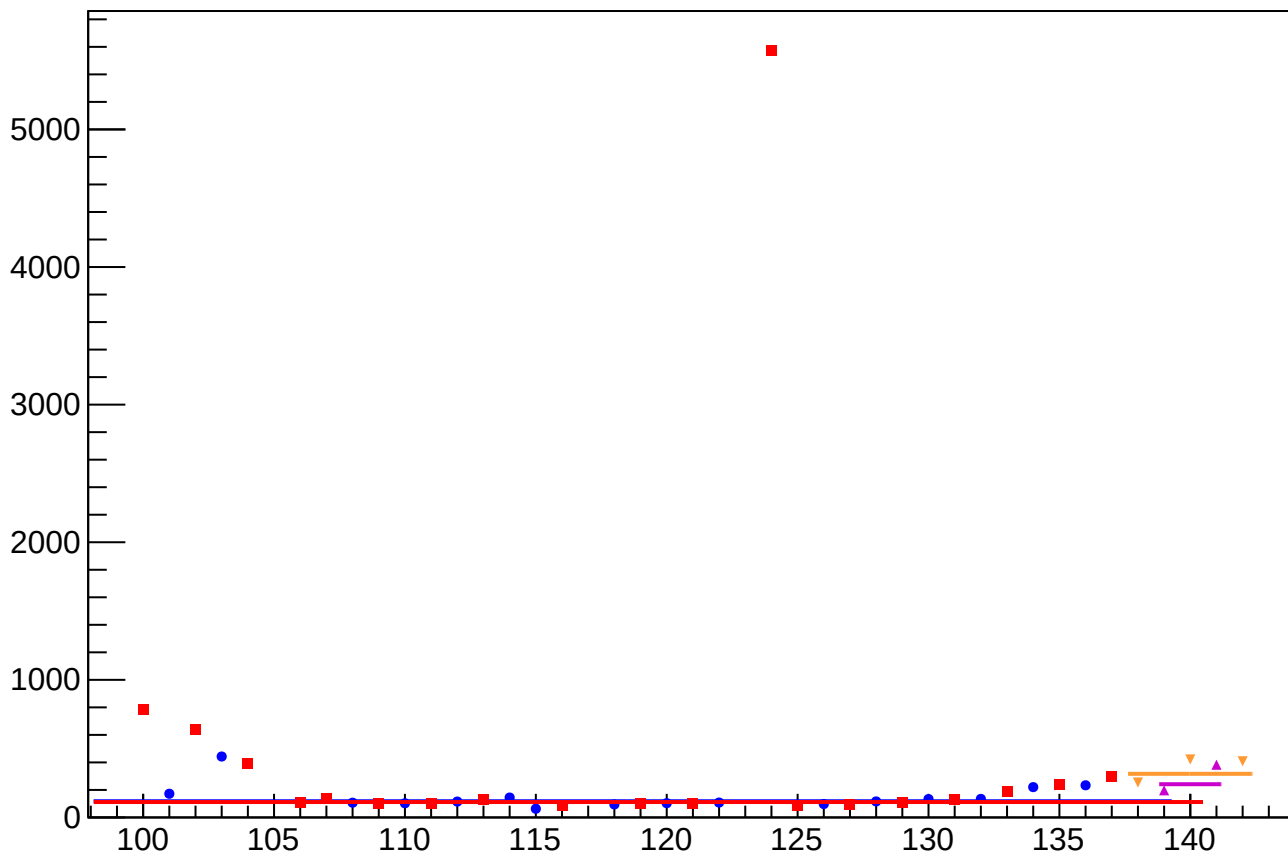
Right: -0.006+/-0.033 χ^2/NDF : 34.3/34

In: 0.034+/-0.047 χ^2/NDF : 18.9/17

Out: -0.042+/-0.046 χ^2/NDF : 26.4/21

All: -0.005+/-0.033 χ^2/NDF : 46.6/39

asym_atr1l2_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 117.649+/-0.034 χ^2/NDF : 1722401.0/15

Left Out: 317.073+/-0.163 χ^2/NDF :236182.0/2

Right Out: 112.124+/-0.033 χ^2/NDF : 2186364.8/18

Left In: 241.587+/-0.141 χ^2/NDF :314417.2/1

Left: 273.882+/-0.107 χ^2/NDF : 672793.2/4

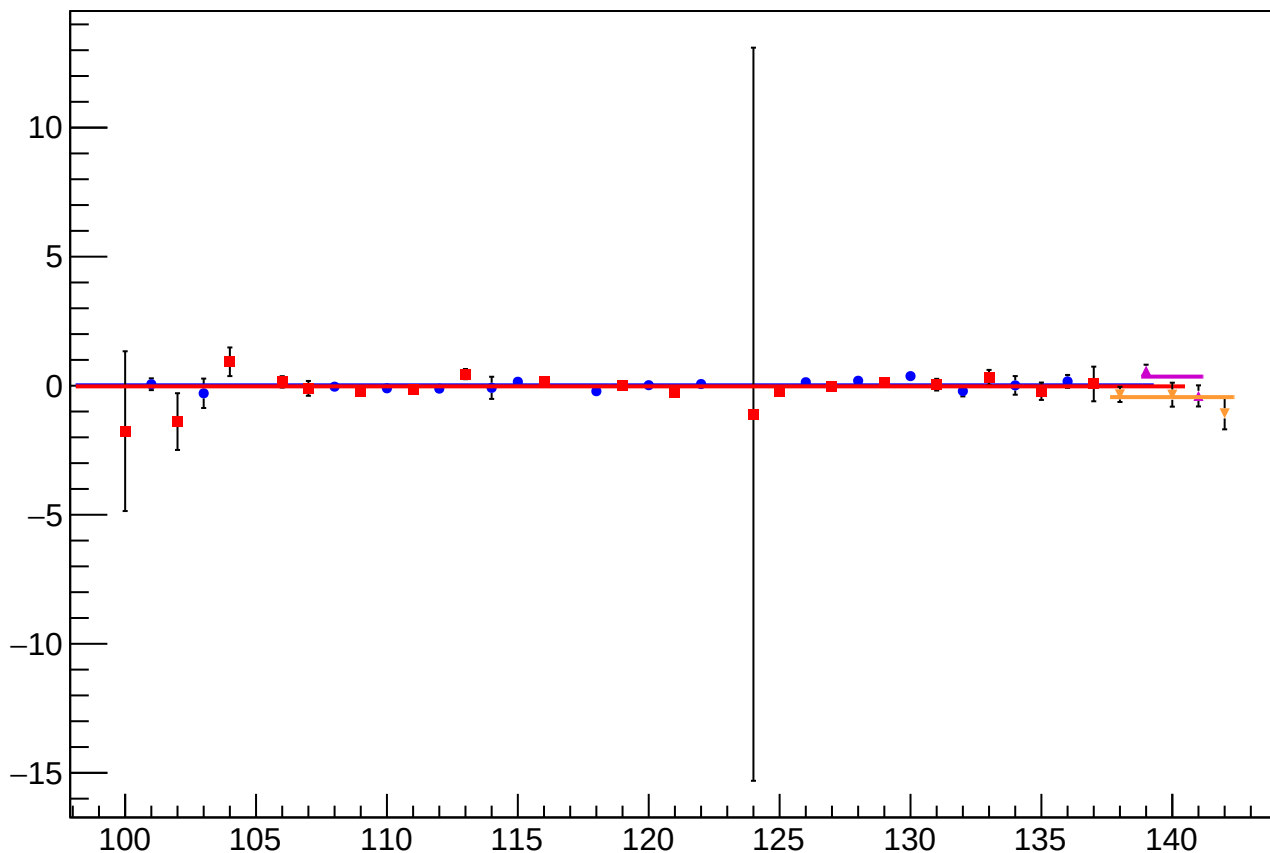
Right: 114.826+/-0.024 χ^2/NDF : 3922369.6/34

In: 124.387+/-0.033 χ^2/NDF :2764914.9/17

Out: 120.219+/-0.032 χ^2/NDF :3934669.0/21

All: 122.273+/-0.023 χ^2/NDF : 6707709.0/39

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015+/-0.048 χ^2/NDF : 11.8/15

Left Out: -0.442+/-0.231 χ^2/NDF : 1.2/2

Right Out: -0.026+/-0.047 χ^2/NDF : 22.1/18

Left In: 0.352+/-0.200 χ^2/NDF : 4.4/1

Left: 0.013+/-0.151 χ^2/NDF : 12.3/4

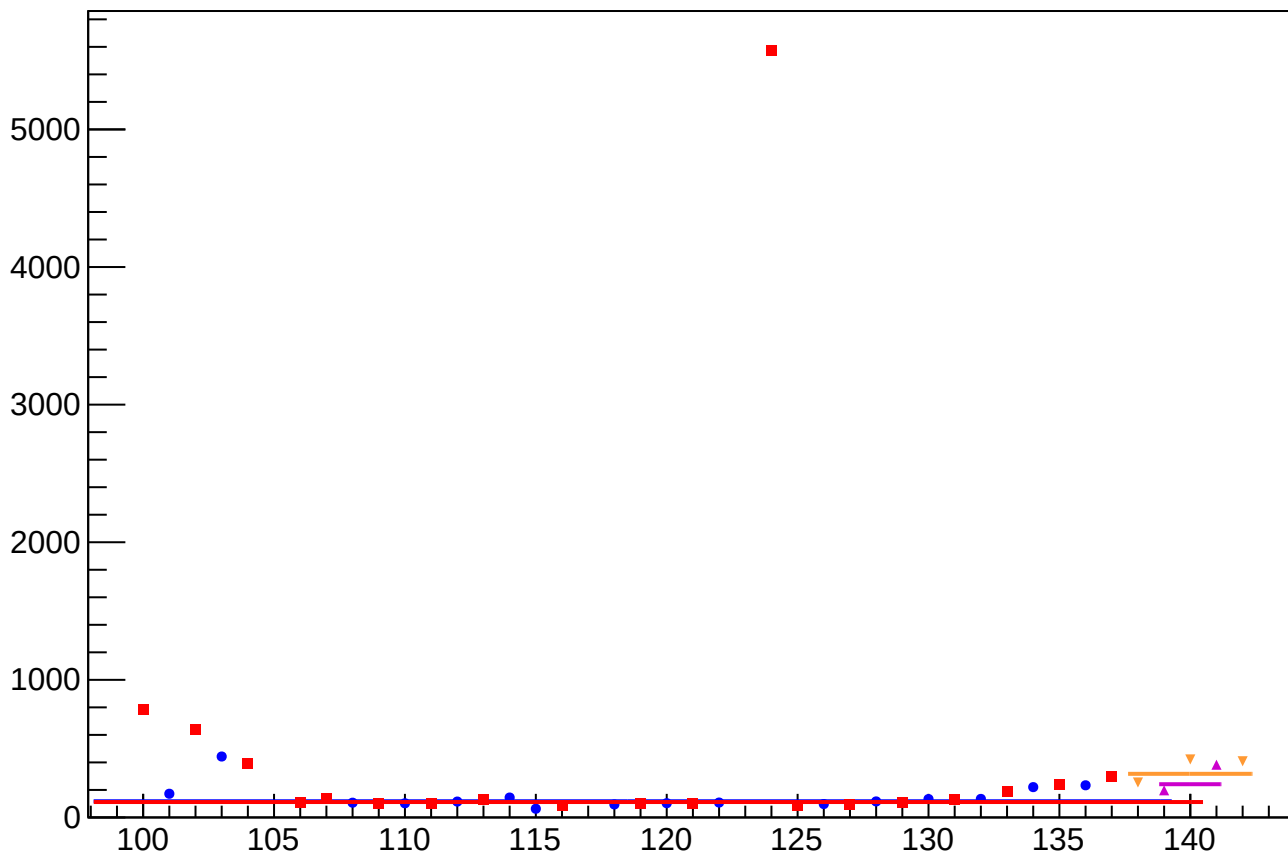
Right: -0.006+/-0.033 χ^2/NDF : 34.3/34

In: 0.034+/-0.047 χ^2/NDF : 18.9/17

Out: -0.042+/-0.046 χ^2/NDF : 26.4/21

All: -0.005+/-0.033 χ^2/NDF : 46.6/39

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 117.649 $\pm$ 0.034 χ^2 /NDF: 1722401.0/15

Left Out: 317.073 $\pm$ 0.163 χ^2 /NDF:236182.0/2

Right Out: 112.124 $\pm$ 0.033 χ^2 /NDF: 2186364.8/18

Left In: 241.587 $\pm$ 0.141 χ^2 /NDF:314417.2/1

Left: 273.882 $\pm$ 0.107 χ^2 /NDF: 672793.2/4

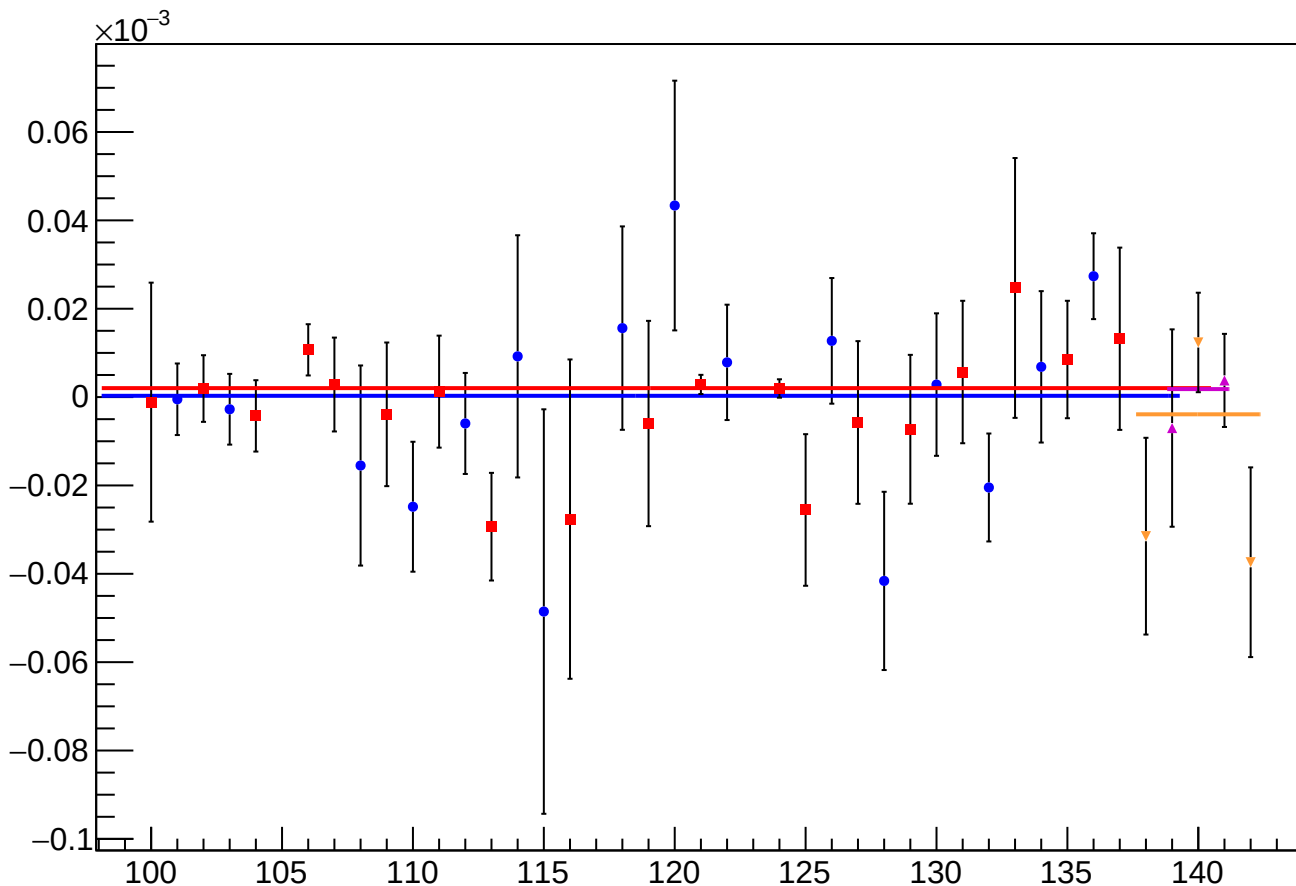
Right: 114.826 $\pm$ 0.024 χ^2 /NDF: 3922369.6/34

In: 124.387 $\pm$ 0.033 χ^2 /NDF:2764914.9/17

Out: 120.219 $\pm$ 0.032 χ^2 /NDF:3934669.0/21

All: 122.273 $\pm$ 0.023 χ^2 /NDF: 6707709.0/39

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 24.1/15

Left Out: -0.000+/-0.000 χ^2/NDF : 6.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 14.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.2/1

Left: -0.000+/-0.000 χ^2/NDF : 6.4/4

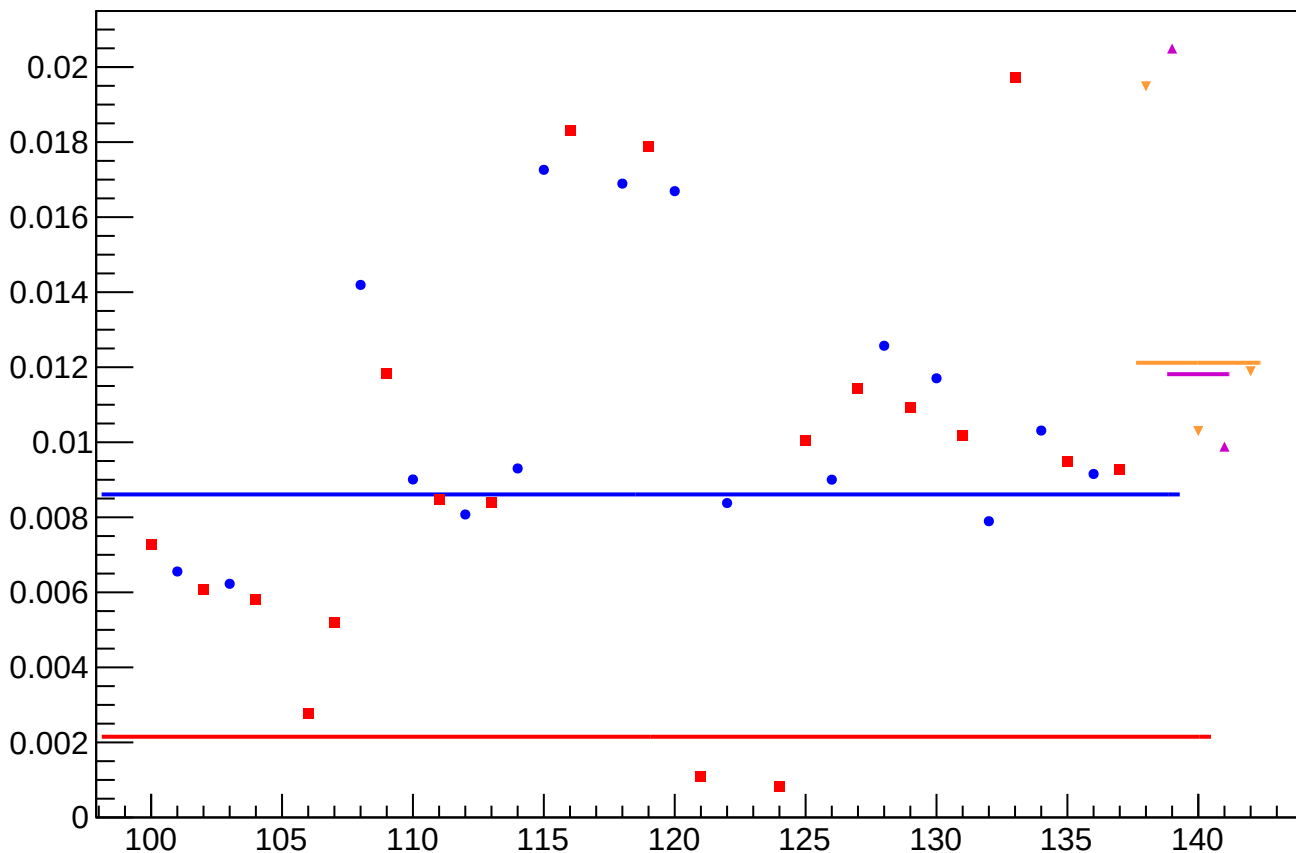
Right: 0.000+/-0.000 χ^2/NDF : 39.1/34

In: 0.000+/-0.000 χ^2/NDF : 24.3/17

Out: 0.000+/-0.000 χ^2/NDF : 21.3/21

All: 0.000+/-0.000 χ^2/NDF : 45.8/39

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1114251.2/15

Left Out: 0.012+/-0.000 χ^2/NDF :271423.6/2

Right Out: 0.002+/-0.000 χ^2/NDF : 9086978.1/18

Left In: 0.012+/-0.000 χ^2/NDF :369094.2/1

Left: 0.012+/-0.000 χ^2/NDF : 641582.8/4

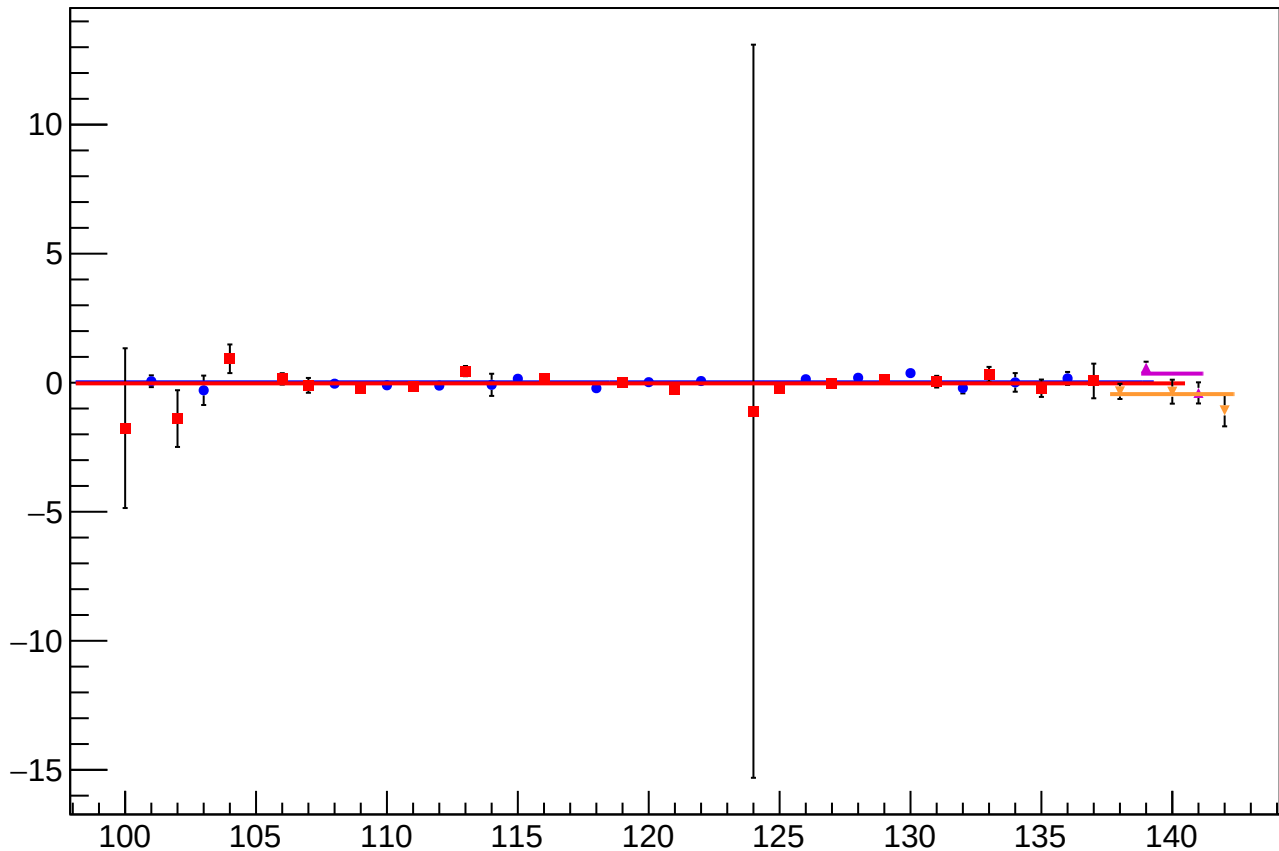
Right: 0.003+/-0.000 χ^2/NDF : 16533209.6/34

In: 0.009+/-0.000 χ^2/NDF :1684357.9/17

Out: 0.002+/-0.000 χ^2/NDF :11706611.4/21

All: 0.003+/-0.000 χ^2/NDF : 20742164.3/39

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015+/-0.048 χ^2/NDF : 11.8/15

Left Out: -0.442+/-0.231 χ^2/NDF : 1.2/2

Right Out: -0.026+/-0.047 χ^2/NDF : 22.1/18

Left In: 0.352+/-0.200 χ^2/NDF : 4.4/1

Left: 0.013+/-0.151 χ^2/NDF : 12.3/4

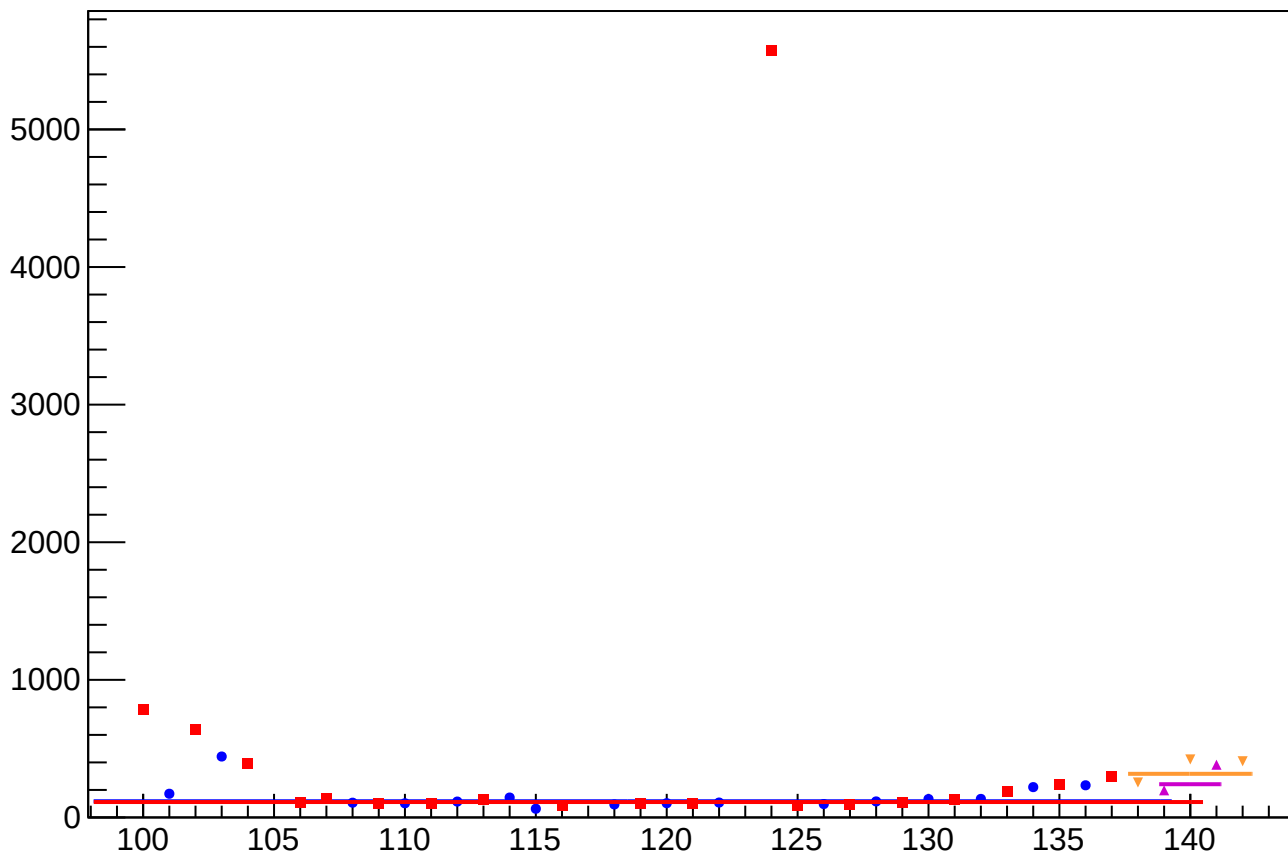
Right: -0.006+/-0.033 χ^2/NDF : 34.3/34

In: 0.034+/-0.047 χ^2/NDF : 18.9/17

Out: -0.042+/-0.046 χ^2/NDF : 26.4/21

All: -0.005+/-0.033 χ^2/NDF : 46.6/39

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 117.649 $\pm$ 0.034 χ^2 /NDF: 1722367.8/15

Left Out: 317.076 $\pm$ 0.163 χ^2 /NDF:236189.3/2

Right Out: 112.126 $\pm$ 0.033 χ^2 /NDF: 2186296.2/18

Left In: 241.592 $\pm$ 0.141 χ^2 /NDF:314410.6/1

Left: 273.887 $\pm$ 0.107 χ^2 /NDF: 672787.4/4

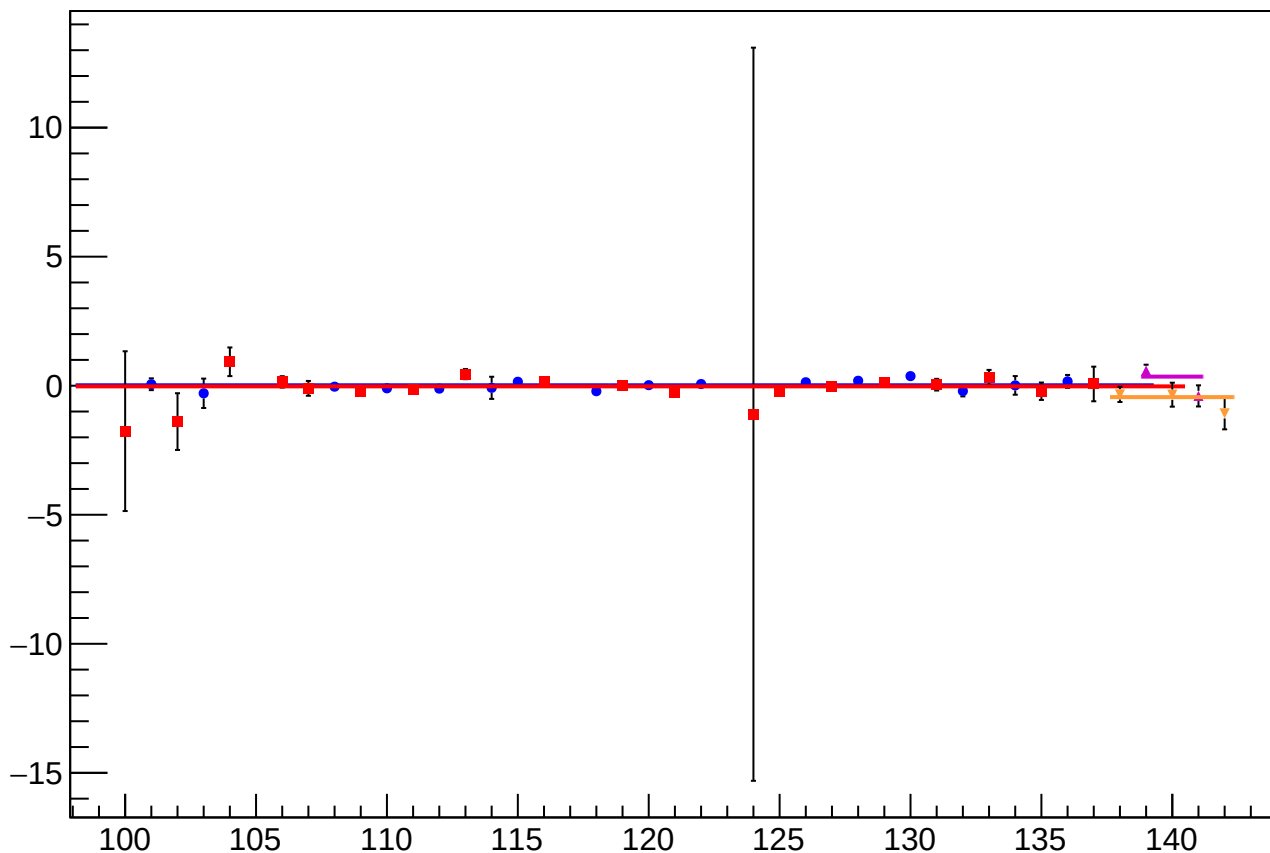
Right: 114.826 $\pm$ 0.024 χ^2 /NDF: 3922259.7/34

In: 124.387 $\pm$ 0.033 χ^2 /NDF:2764904.2/17

Out: 120.220 $\pm$ 0.032 χ^2 /NDF:3934603.4/21

All: 122.274 $\pm$ 0.023 χ^2 /NDF: 6707626.1/39

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015+/-0.048 χ^2/NDF : 11.8/15

Left Out: -0.442+/-0.231 χ^2/NDF : 1.2/2

Right Out: -0.026+/-0.047 χ^2/NDF : 22.1/18

Left In: 0.352+/-0.200 χ^2/NDF : 4.4/1

Left: 0.013+/-0.151 χ^2/NDF : 12.3/4

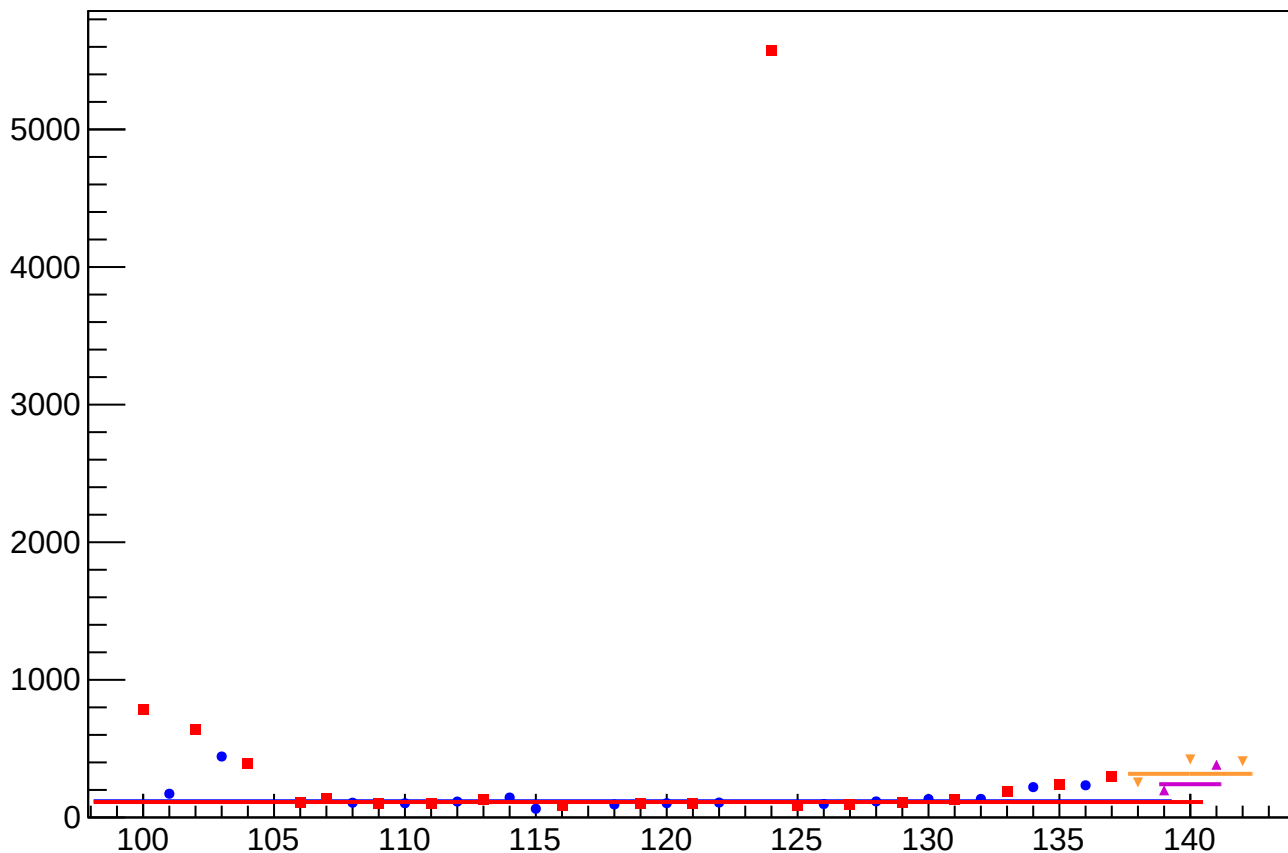
Right: -0.006+/-0.033 χ^2/NDF : 34.3/34

In: 0.034+/-0.047 χ^2/NDF : 18.9/17

Out: -0.042+/-0.046 χ^2/NDF : 26.4/21

All: -0.005+/-0.033 χ^2/NDF : 46.6/39

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 117.649+/-0.034 χ^2/NDF : 1722367.8/15

Left Out: 317.076+/-0.163 χ^2/NDF :236189.3/2

Right Out: 112.126+/-0.033 χ^2/NDF : 2186296.2/18

Left In: 241.592+/-0.141 χ^2/NDF :314410.6/1

Left: 273.887+/-0.107 χ^2/NDF : 672787.4/4

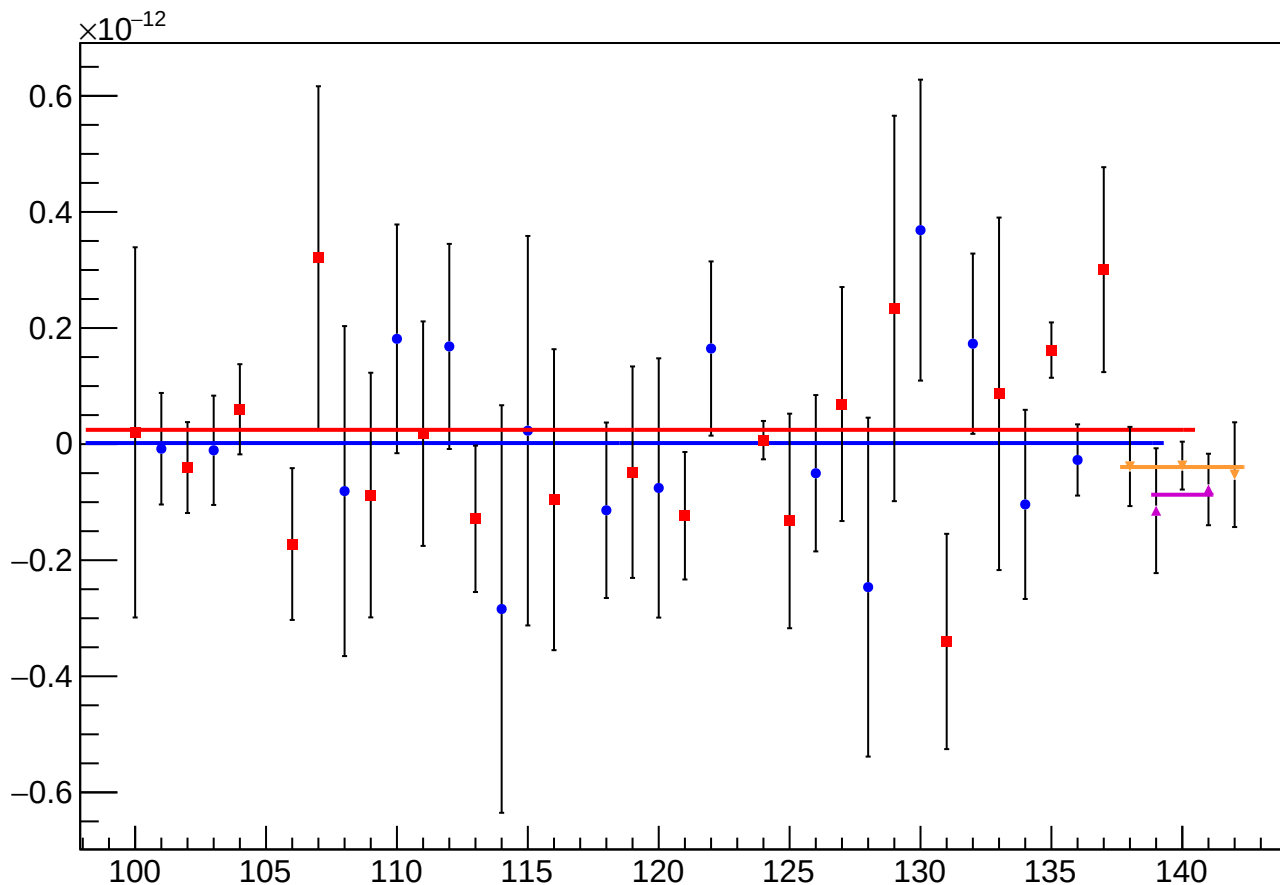
Right: 114.826+/-0.024 χ^2/NDF : 3922259.7/34

In: 124.387+/-0.033 χ^2/NDF :2764904.2/17

Out: 120.220+/-0.032 χ^2/NDF :3934603.4/21

All: 122.274+/-0.023 χ^2/NDF : 6707626.1/39

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9.1/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 24.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.1/1

Left: -0.000+/-0.000 χ^2/NDF : 0.7/4

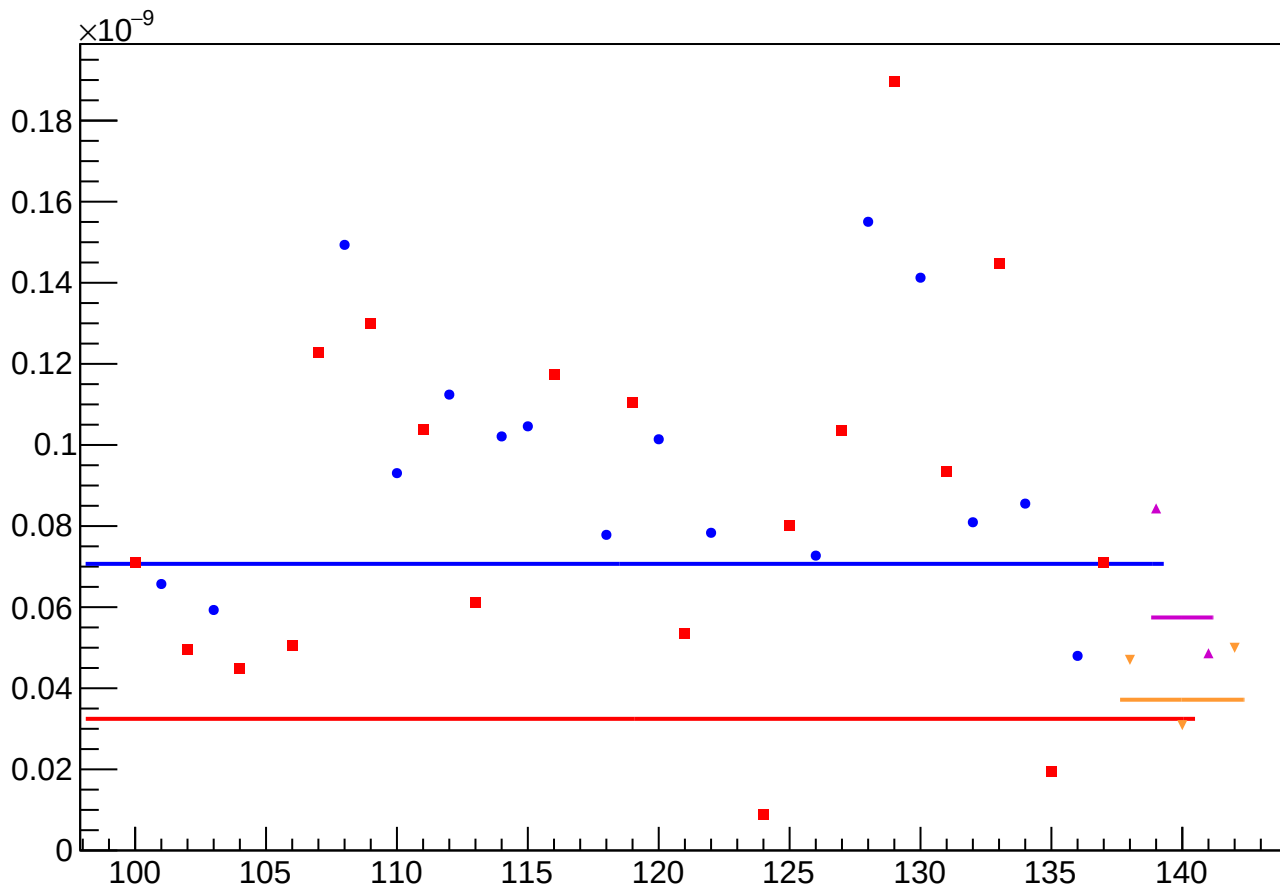
Right: 0.000+/-0.000 χ^2/NDF : 33.7/34

In: -0.000+/-0.000 χ^2/NDF : 11.2/17

Out: 0.000+/-0.000 χ^2/NDF : 26.9/21

All: -0.000+/-0.000 χ^2/NDF : 38.8/39

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1023708.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :128027.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4449161.8/18

Left In: 0.000+/-0.000 χ^2/NDF :166158.4/1

Left: 0.000+/-0.000 χ^2/NDF : 503199.2/4

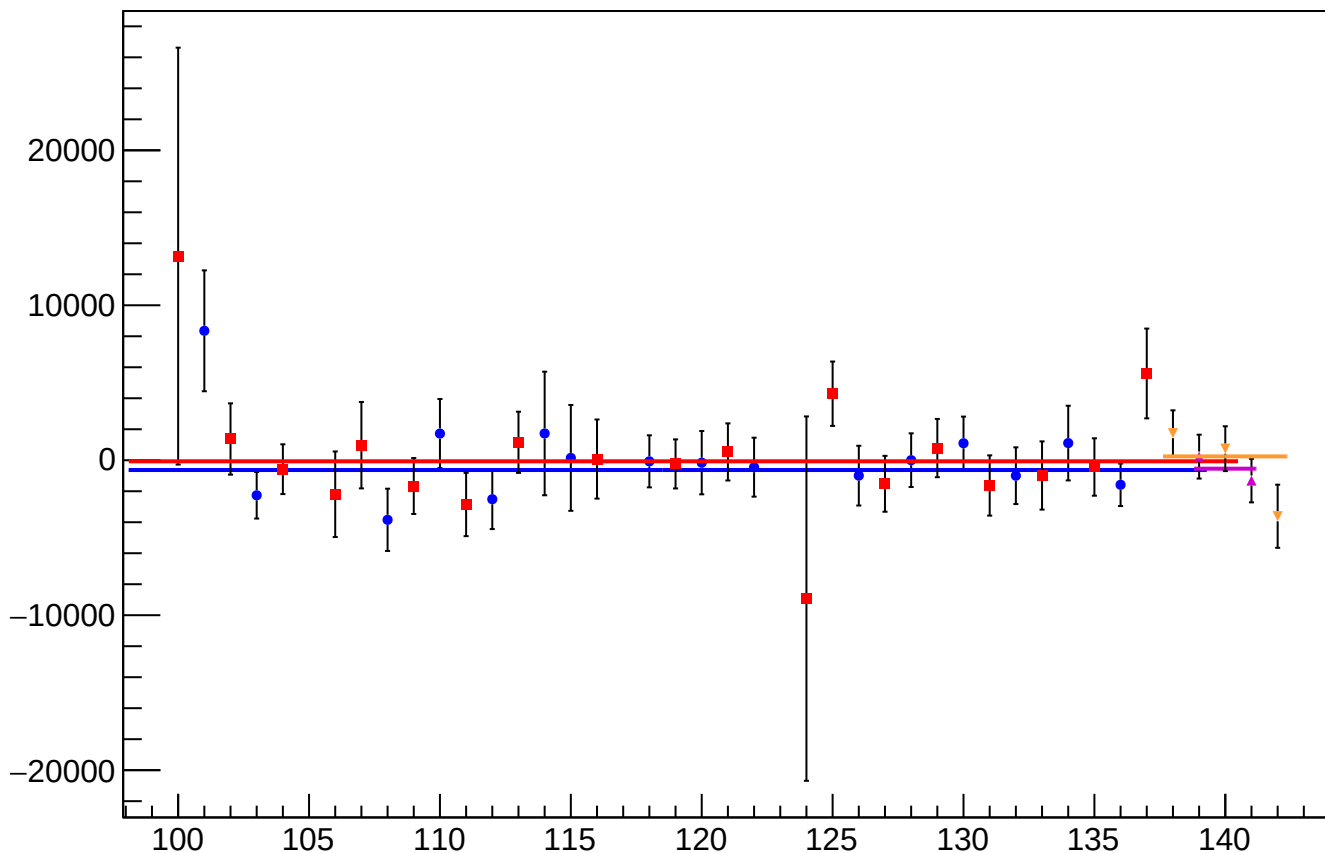
Right: 0.000+/-0.000 χ^2/NDF : 7239318.8/34

In: 0.000+/-0.000 χ^2/NDF :1276378.2/17

Out: 0.000+/-0.000 χ^2/NDF :4605898.1/21

All: 0.000+/-0.000 χ^2/NDF : 7743005.7/39

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -631.041+/-488.663 χ^2/NDF : 13.9/15

Left Out: 247.683+/-920.243 χ^2/NDF : 4.8/2

Right Out: -67.642+/-487.761 χ^2/NDF : 15.9/18

Left In: -544.636+/-997.379 χ^2/NDF : 0.6/1

Left: -116.657+/-676.338 χ^2/NDF : 5.7/4

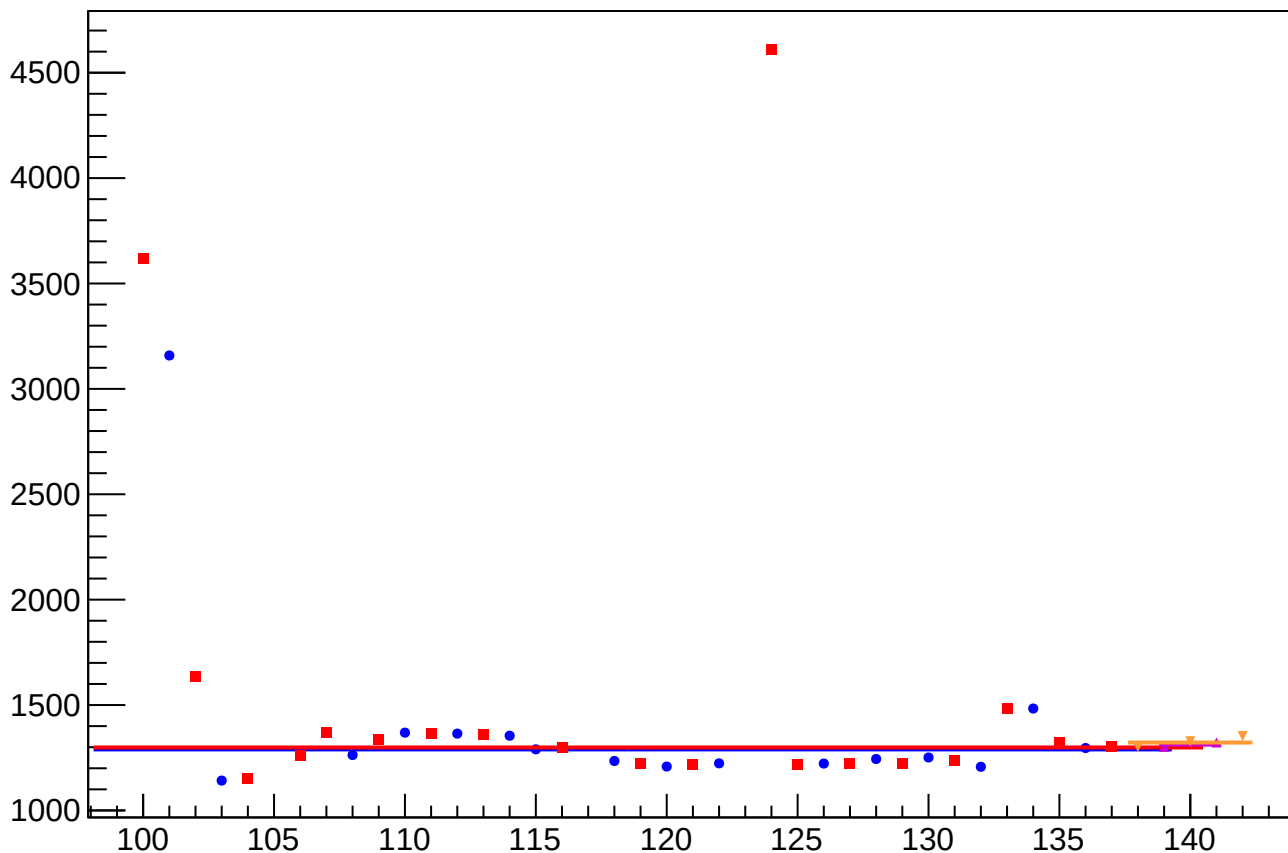
Right: -348.821+/-345.217 χ^2/NDF : 30.4/34

In: -614.315+/-438.824 χ^2/NDF : 14.5/17

Out: 1.515+/-430.966 χ^2/NDF : 20.7/21

All: -300.837+/-307.479 χ^2/NDF : 36.2/39

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514675.0/15

Left Out: 1322.159+/-0.651 χ^2/NDF : 909.7/2

Right Out: 1298.656+/-0.344 χ^2/NDF : 319374.9/18

Left In: 1312.384+/-0.705 χ^2/NDF : 216.7/1

Left: 1317.664+/-0.478 χ^2/NDF : 1230.2/4

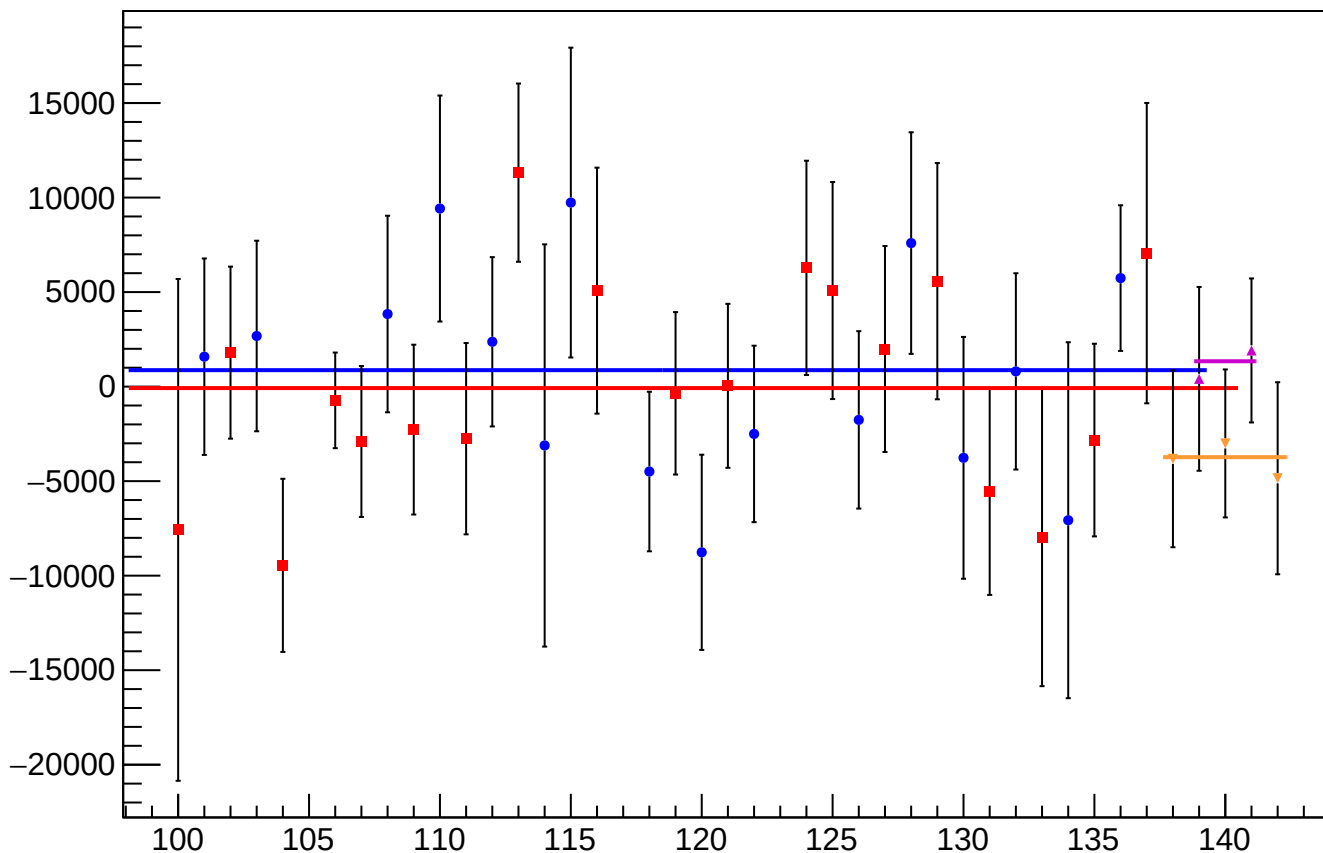
Right: 1294.081+/-0.244 χ^2/NDF : 834405.1/34

In: 1293.903+/-0.310 χ^2/NDF : 515743.3/17

Out: 1303.789+/-0.304 χ^2/NDF : 321304.2/21

All: 1298.945+/-0.217 χ^2/NDF : 837565.4/39

asym_atl_dd_atr_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: 870.295 ± 1325.278 $\chi^2/\text{NDF}: 14.0/15$

Left Out: -3731.672 ± 2583.711 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -77.323 ± 1111.074 $\chi^2/\text{NDF}: 18.4/18$

Left In: 1340.957 ± 2998.457 $\chi^2/\text{NDF}: 0.1/1$

Left: -1570.177 ± 1957.305 $\chi^2/\text{NDF}: 1.8/4$

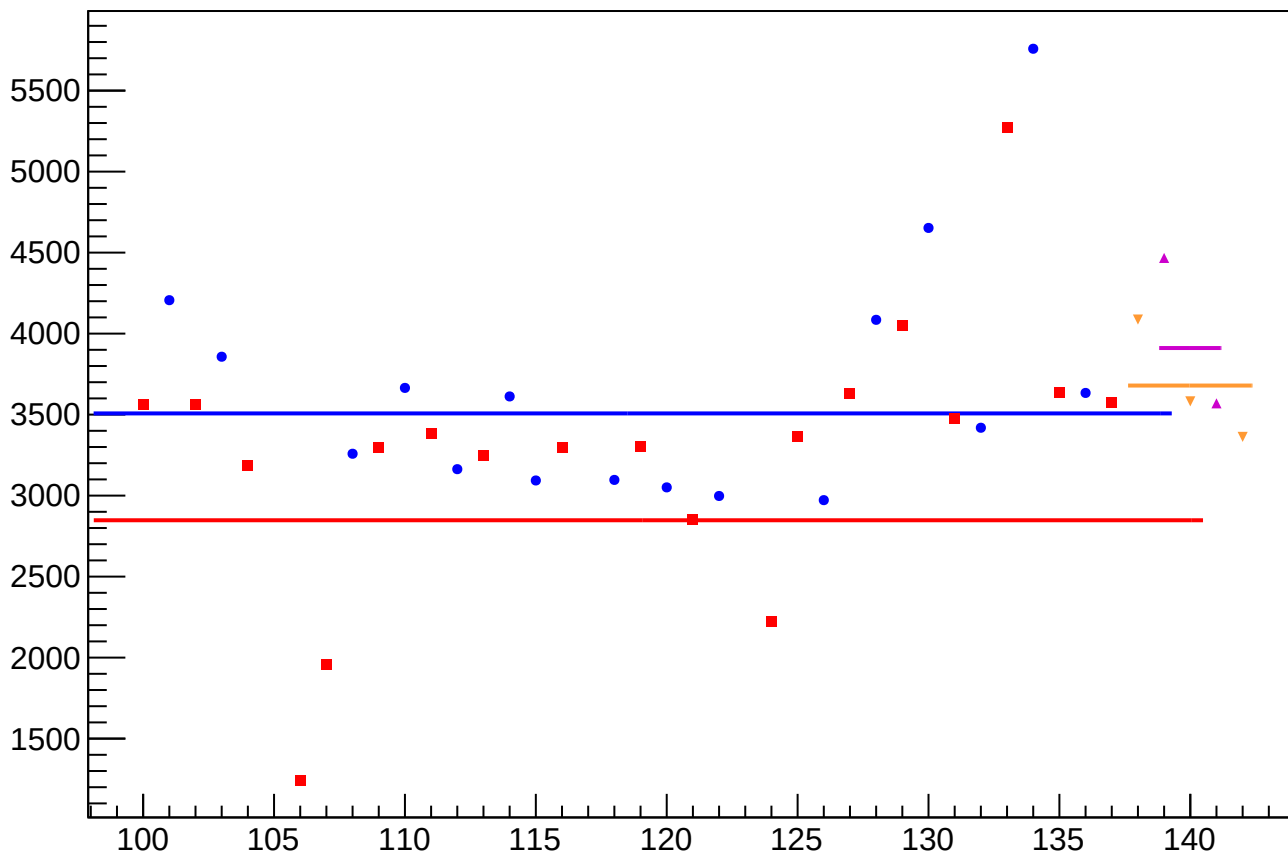
Right: 313.810 ± 851.438 $\chi^2/\text{NDF}: 32.7/34$

In: 947.213 ± 1212.158 $\chi^2/\text{NDF}: 14.1/17$

Out: -647.641 ± 1020.698 $\chi^2/\text{NDF}: 20.1/21$

All: 14.031 ± 780.765 $\chi^2/\text{NDF}: 35.3/39$

asym_atl_dd_atr_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 3507.397+/-0.937 χ^2/NDF : 353979.1/15

Left Out: 3679.410+/-1.827 χ^2/NDF : 24220.0/2

Right Out: 2847.833+/-0.786 χ^2/NDF : 1499373.6/18

Left In: 3910.991+/-2.120 χ^2/NDF : 42242.3/1

Left: 3778.089+/-1.384 χ^2/NDF : 73308.7/4

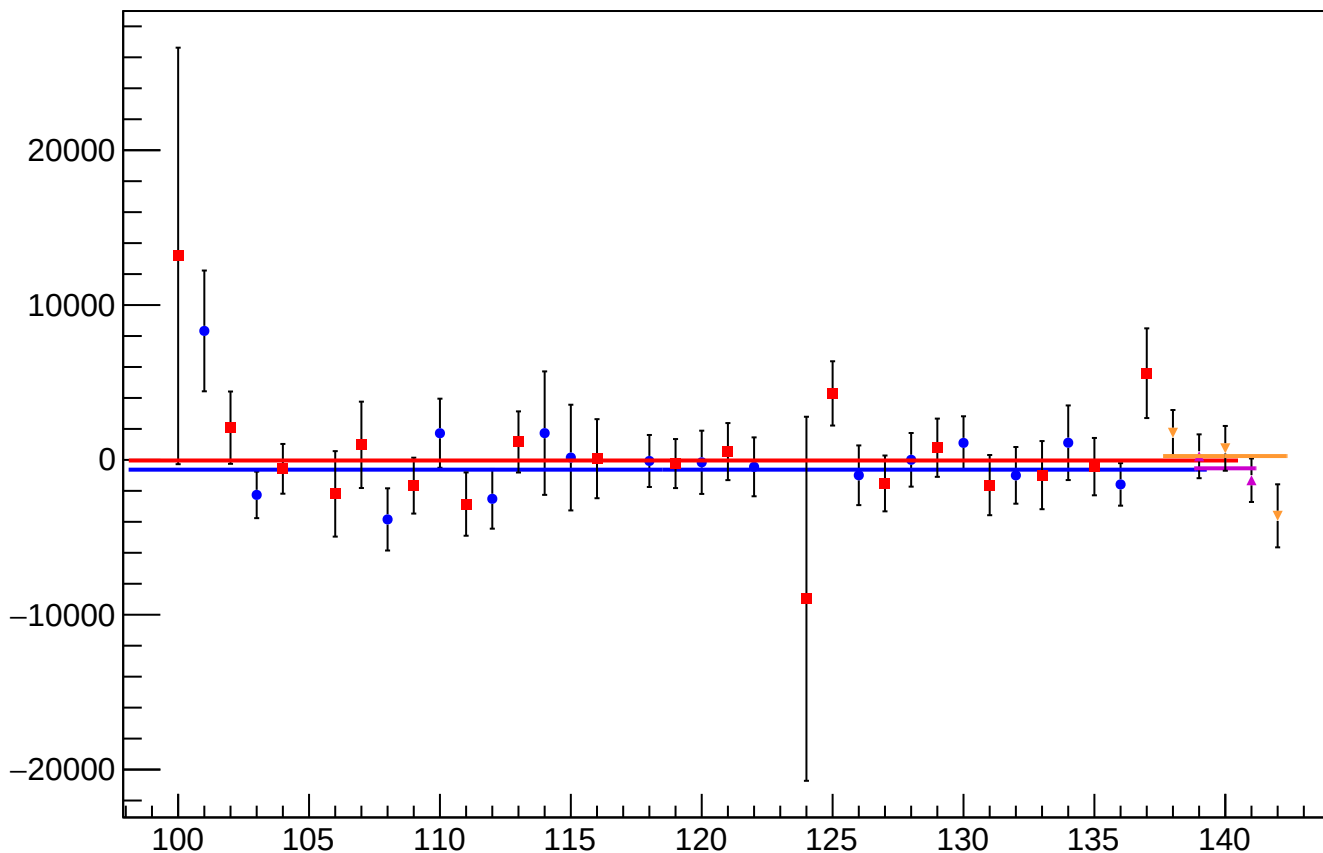
Right: 3120.071+/-0.602 χ^2/NDF : 2144256.9/34

In: 3573.355+/-0.857 χ^2/NDF : 426534.2/17

Out: 2977.613+/-0.722 χ^2/NDF : 1698439.6/21

All: 3224.774+/-0.552 χ^2/NDF : 2407639.6/39

cor_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2/NDF : 13.9/15

Left Out: 247.692+/-920.243 χ^2/NDF : 4.8/2

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -544.413+/-997.379 χ^2/NDF : 0.6/1

Left: -116.550+/-676.338 χ^2/NDF : 5.7/4

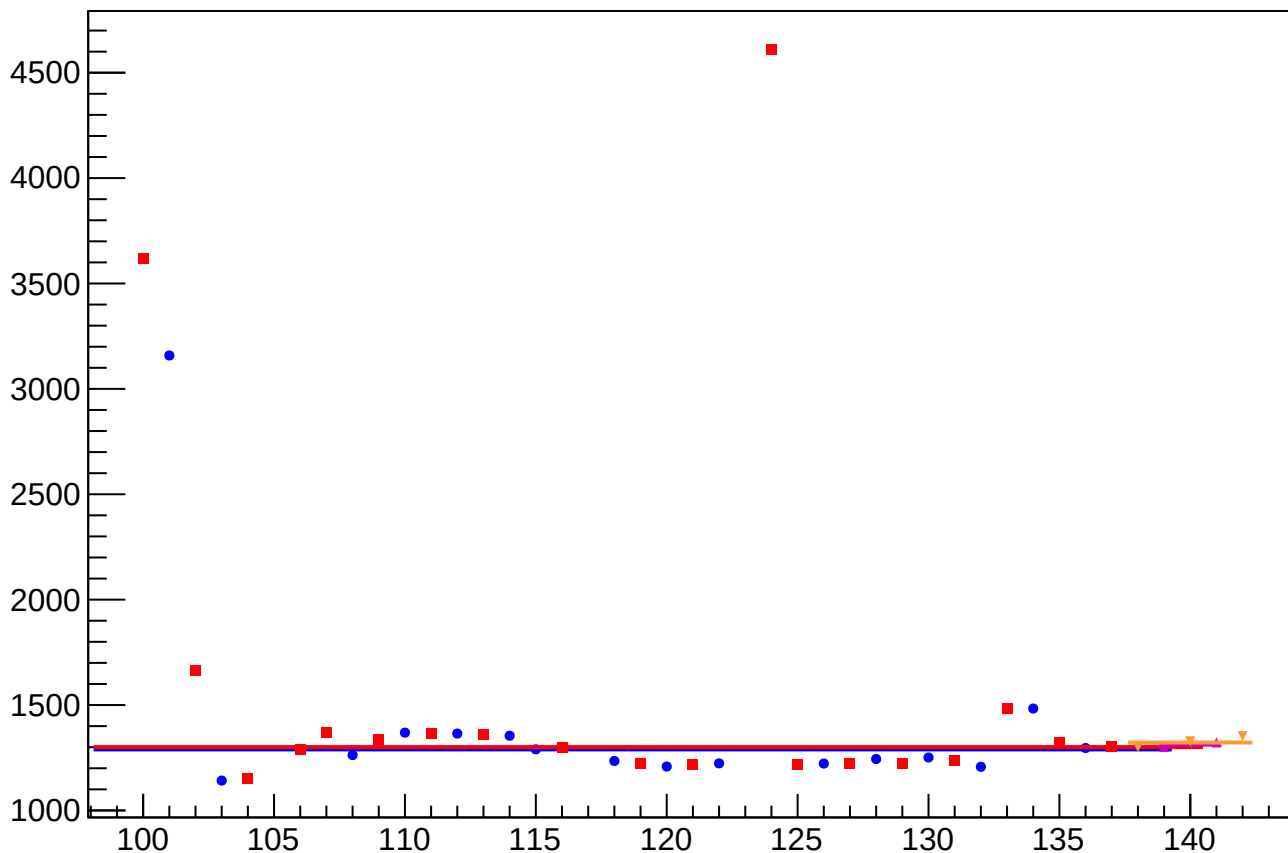
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -614.583+/-438.824 χ^2/NDF : 14.5/17

Out: 24.237+/-431.189 χ^2/NDF : 21.2/21

All: -289.567+/-307.560 χ^2/NDF : 36.7/39

cor_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514676.5/15

Left Out: 1322.159+/-0.651 χ^2/NDF : 909.7/2

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1312.384+/-0.705 χ^2/NDF : 216.7/1

Left: 1317.664+/-0.478 χ^2/NDF : 1230.2/4

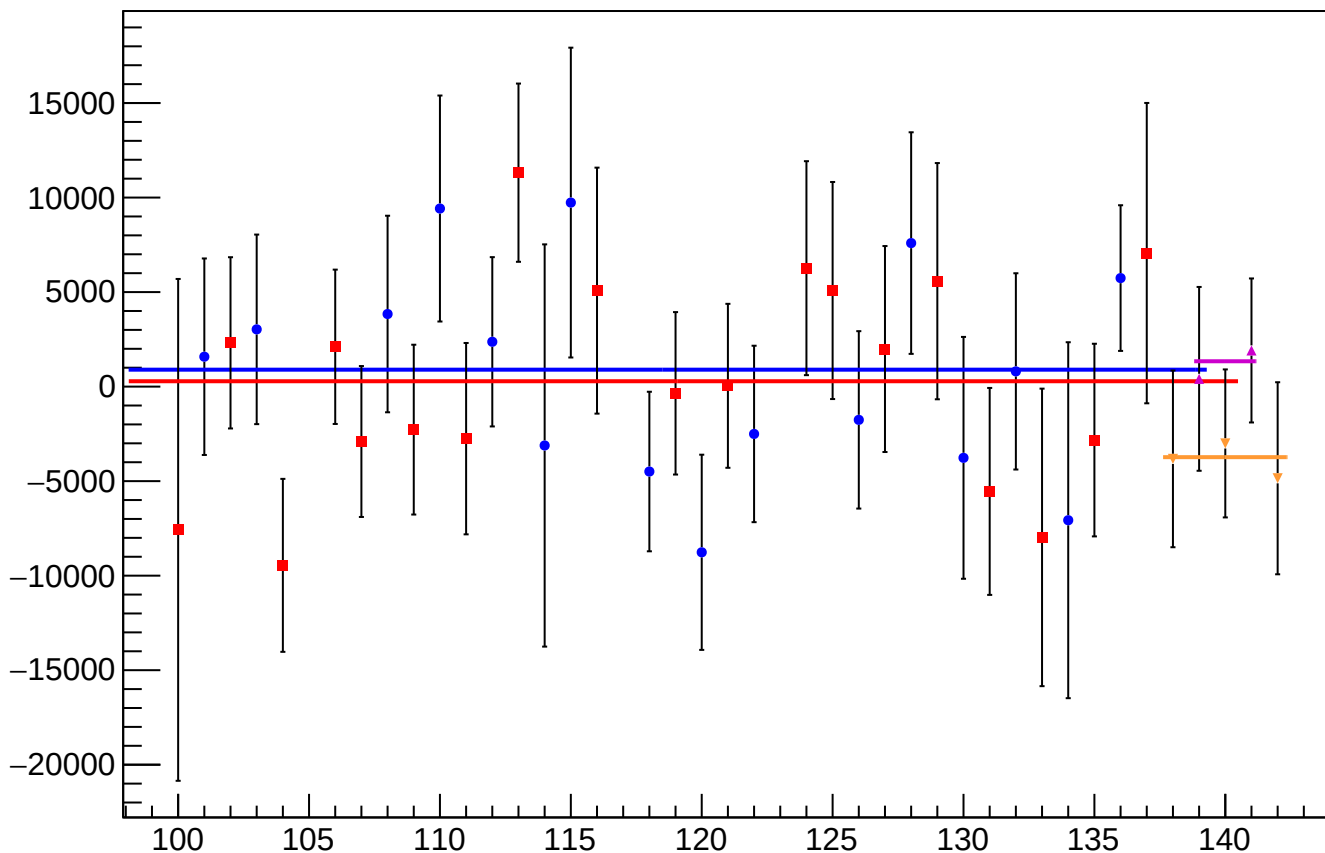
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1293.902+/-0.310 χ^2/NDF : 515744.8/17

Out: 1305.385+/-0.304 χ^2/NDF : 327668.1/21

All: 1299.753+/-0.217 χ^2/NDF : 844110.6/39

asym_atl_dd_atr_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017 ± 1324.823 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -3731.705 ± 2583.709 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 283.963 ± 1183.171 $\chi^2/\text{NDF}: 18.6/18$

Left In: 1340.949 ± 2998.450 $\chi^2/\text{NDF}: 0.1/1$

Left: -1570.196 ± 1957.302 $\chi^2/\text{NDF}: 1.8/4$

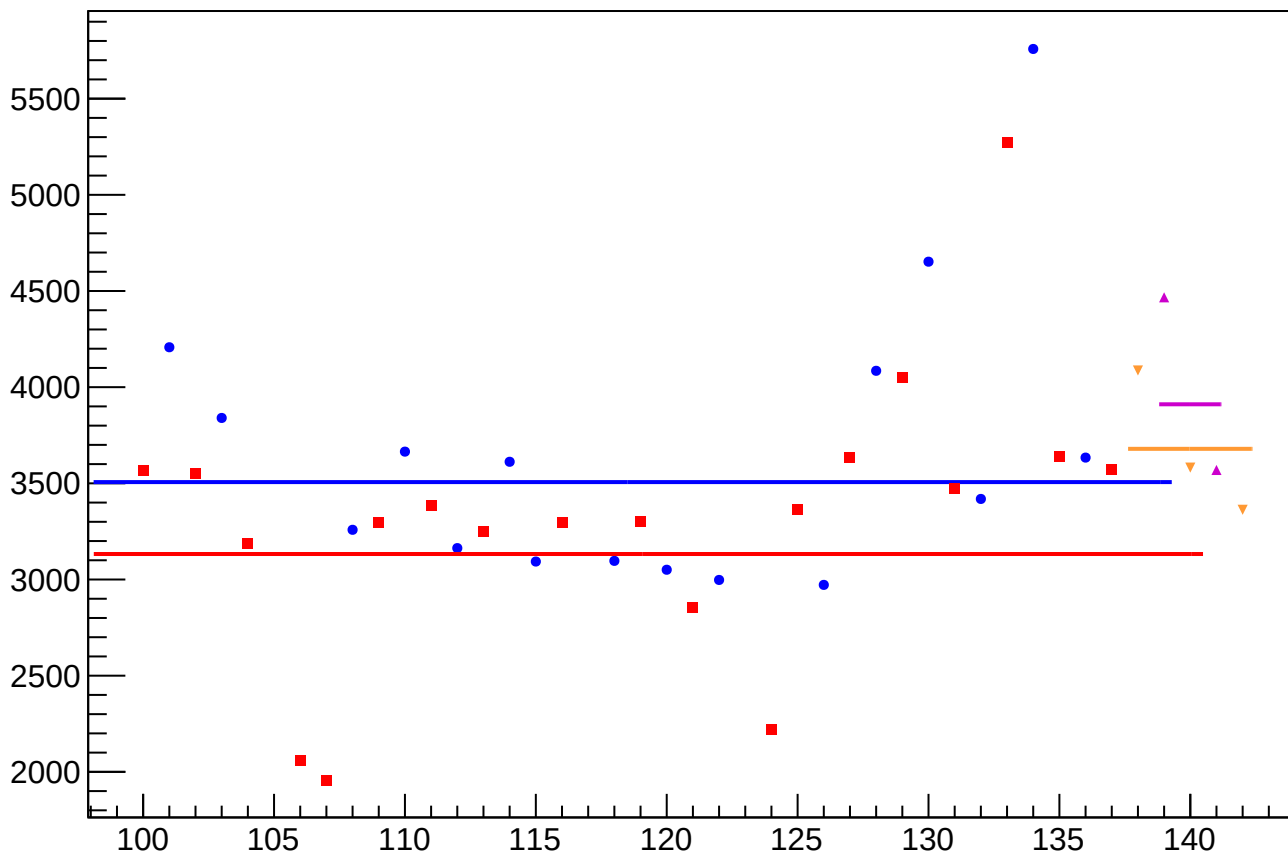
Right: 555.531 ± 882.475 $\chi^2/\text{NDF}: 32.8/34$

In: 968.689 ± 1211.809 $\chi^2/\text{NDF}: 14.2/17$

Out: -412.161 ± 1075.742 $\chi^2/\text{NDF}: 20.7/21$

All: 196.418 ± 804.488 $\chi^2/\text{NDF}: 35.6/39$

asym_atl_dd_atr_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484+/-0.937 χ^2/NDF : 353237.7/15

Left Out: 3679.407+/-1.827 χ^2/NDF : 24219.8/2

Right Out: 3132.586+/-0.837 χ^2/NDF : 649611.1/18

Left In: 3910.982+/-2.120 χ^2/NDF : 42241.5/1

Left: 3778.084+/-1.384 χ^2/NDF : 73307.5/4

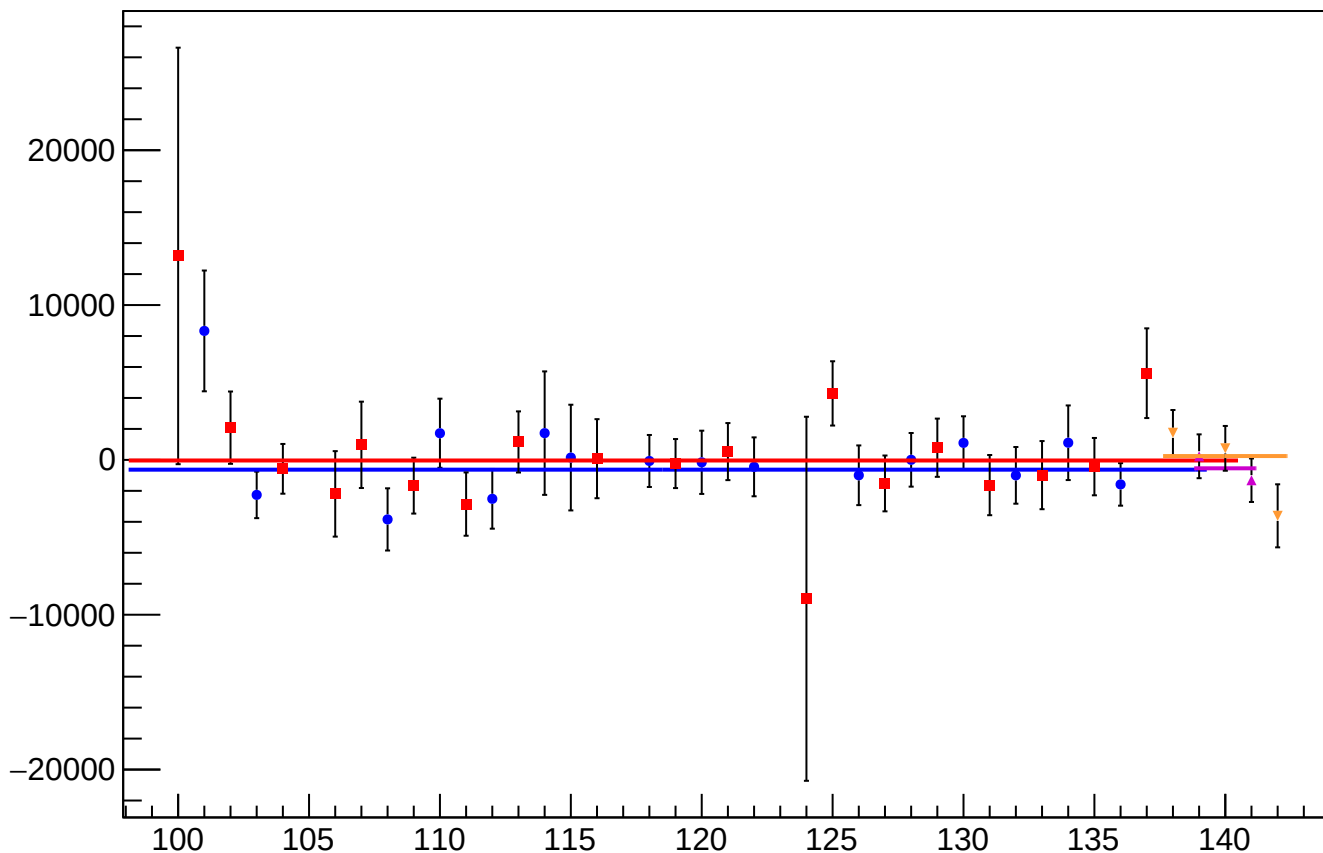
Right: 3298.485+/-0.624 χ^2/NDF : 1091468.2/34

In: 3572.552+/-0.857 χ^2/NDF : 425931.7/17

Out: 3227.379+/-0.761 χ^2/NDF : 747885.7/21

All: 3379.506+/-0.569 χ^2/NDF : 1264569.9/39

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2/NDF : 13.9/15

Left Out: 247.692+/-920.243 χ^2/NDF : 4.8/2

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -544.413+/-997.379 χ^2/NDF : 0.6/1

Left: -116.550+/-676.338 χ^2/NDF : 5.7/4

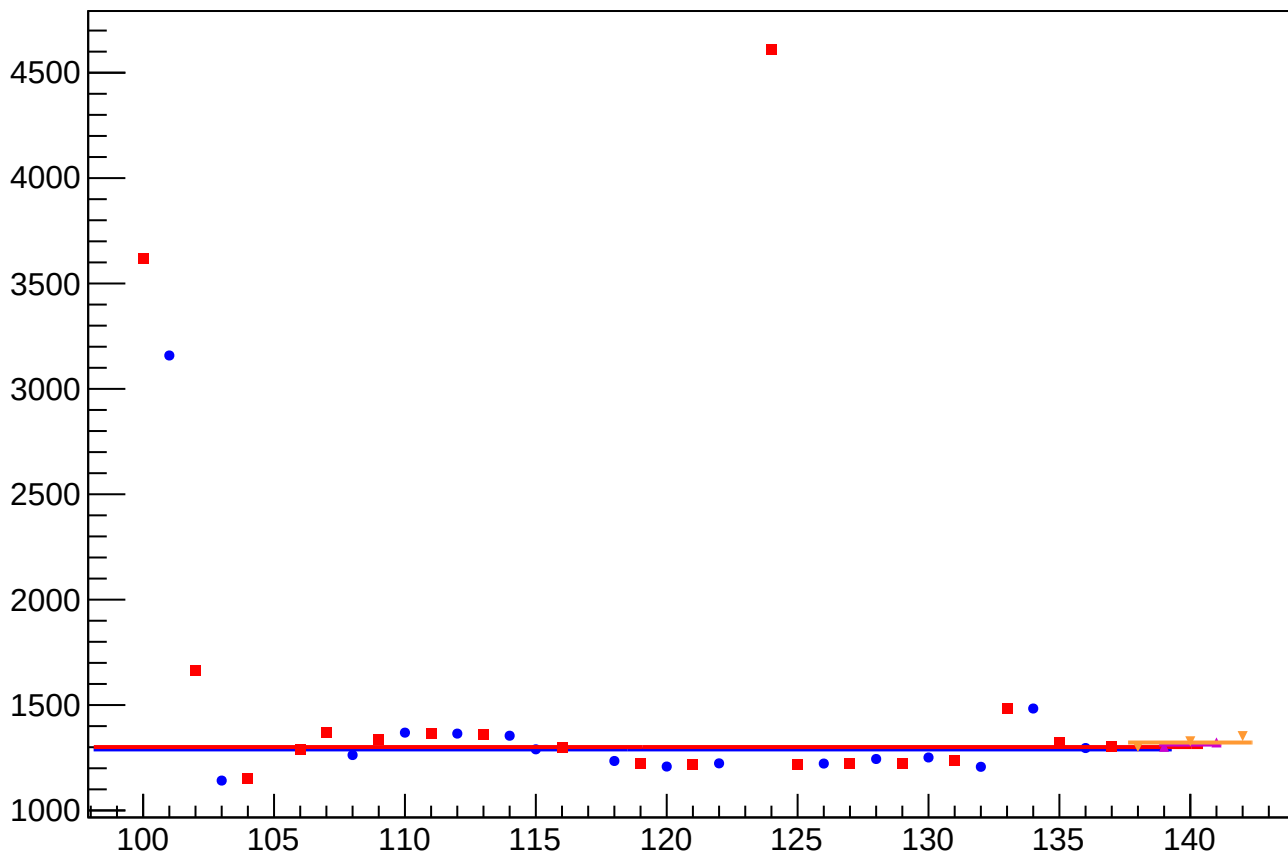
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -614.583+/-438.824 χ^2/NDF : 14.5/17

Out: 24.237+/-431.189 χ^2/NDF : 21.2/21

All: -289.567+/-307.560 χ^2/NDF : 36.7/39

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514676.5/15

Left Out: 1322.159+/-0.651 χ^2/NDF : 909.7/2

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1312.384+/-0.705 χ^2/NDF : 216.7/1

Left: 1317.664+/-0.478 χ^2/NDF : 1230.2/4

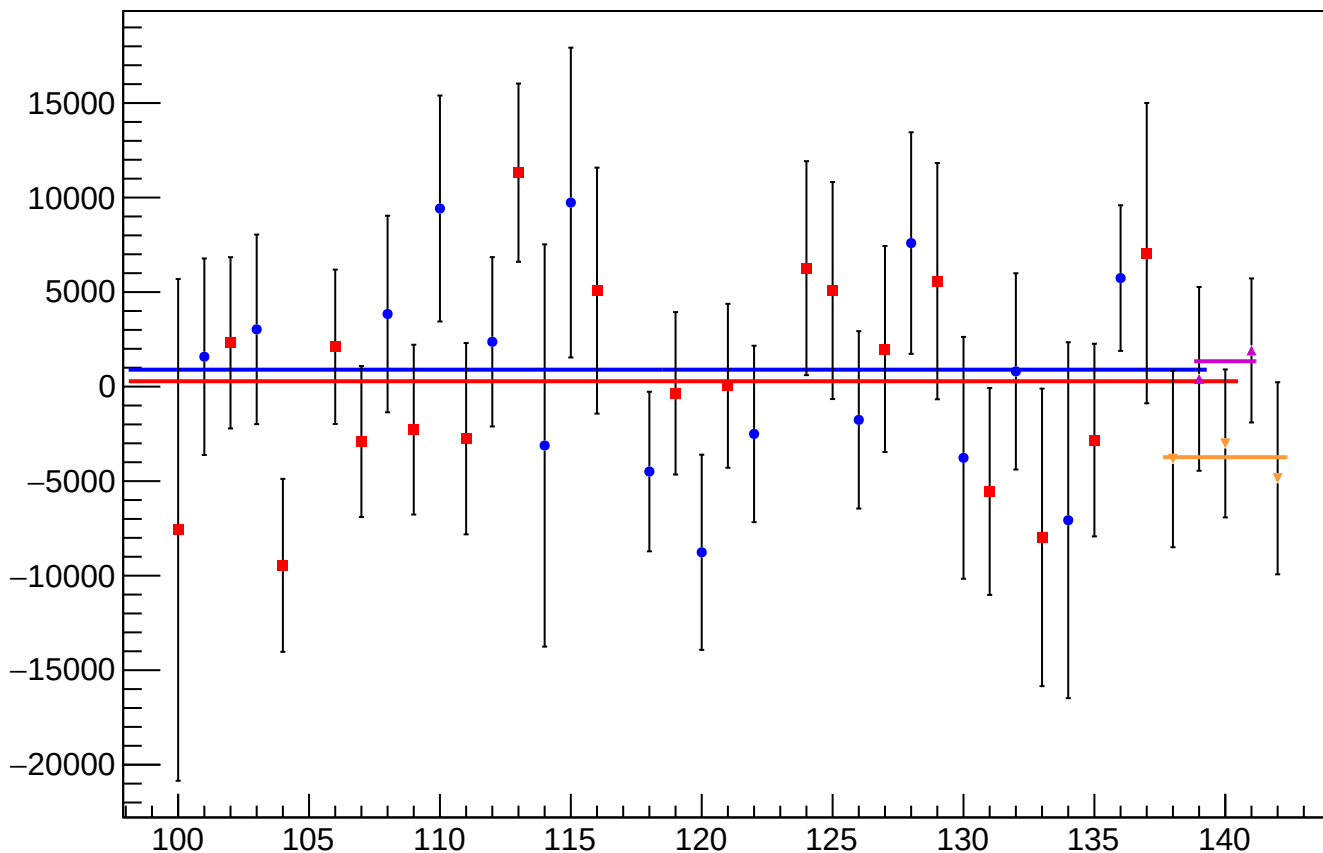
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1293.902+/-0.310 χ^2/NDF : 515744.8/17

Out: 1305.385+/-0.304 χ^2/NDF : 327668.1/21

All: 1299.753+/-0.217 χ^2/NDF : 844110.6/39

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017 $\pm$ 1324.823 χ^2 /NDF: 14.1/15

Left Out: -3731.705 $\pm$ 2583.709 χ^2 /NDF:0.1/2

Right Out: 283.963 $\pm$ 1183.171 χ^2 /NDF: 18.6/18

Left In: 1340.949 $\pm$ 2998.450 χ^2 /NDF:0.1/1

Left: -1570.196 $\pm$ 1957.302 χ^2 /NDF: 1.8/4

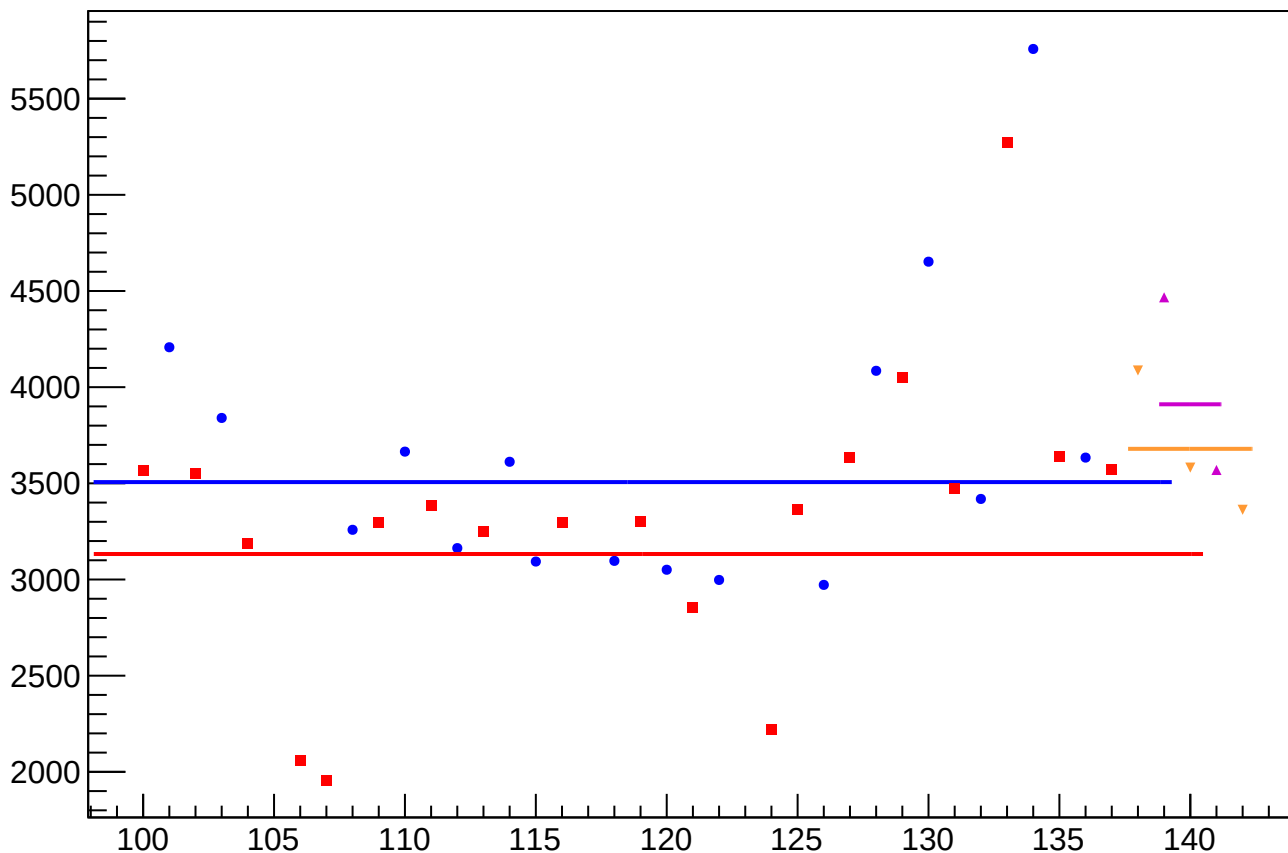
Right: 555.531 $\pm$ 882.475 χ^2 /NDF: 32.8/34

In: 968.689 $\pm$ 1211.809 χ^2 /NDF:14.2/17

Out: -412.161 $\pm$ 1075.742 χ^2 /NDF:20.7/21

All: 196.418 $\pm$ 804.488 χ^2 /NDF: 35.6/39

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484 $\pm$ 0.937 χ^2/NDF : 353237.7/15

Left Out: 3679.407 $\pm$ 1.827 χ^2/NDF : 24219.8/2

Right Out: 3132.586 $\pm$ 0.837 χ^2/NDF : 649611.1/18

Left In: 3910.982 $\pm$ 2.120 χ^2/NDF : 42241.5/1

Left: 3778.084 $\pm$ 1.384 χ^2/NDF : 73307.5/4

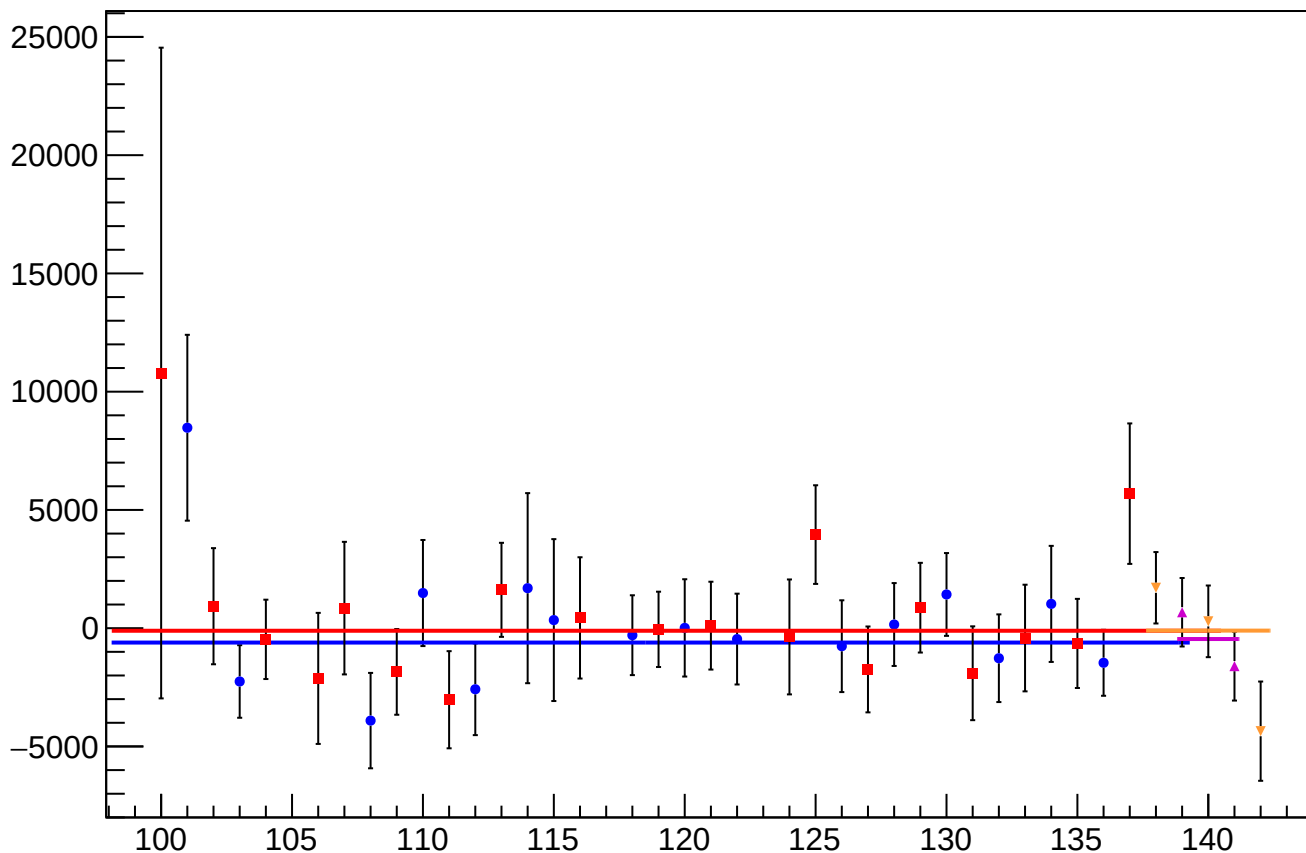
Right: 3298.485 $\pm$ 0.624 χ^2/NDF : 1091468.2/34

In: 3572.552 $\pm$ 0.857 χ^2/NDF : 425931.7/17

Out: 3227.379 $\pm$ 0.761 χ^2/NDF : 747885.7/21

All: 3379.506 $\pm$ 0.569 χ^2/NDF : 1264569.9/39

dit_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -607.831+/-494.182 χ^2/NDF : 14.1/15

Left Out: -102.420+/-952.859 χ^2/NDF : 5.6/2

Right Out: -108.614+/-485.552 χ^2/NDF : 14.9/18

Left In: -458.128+/-1026.913 χ^2/NDF : 1.2/1

Left: -266.987+/-698.487 χ^2/NDF : 6.9/4

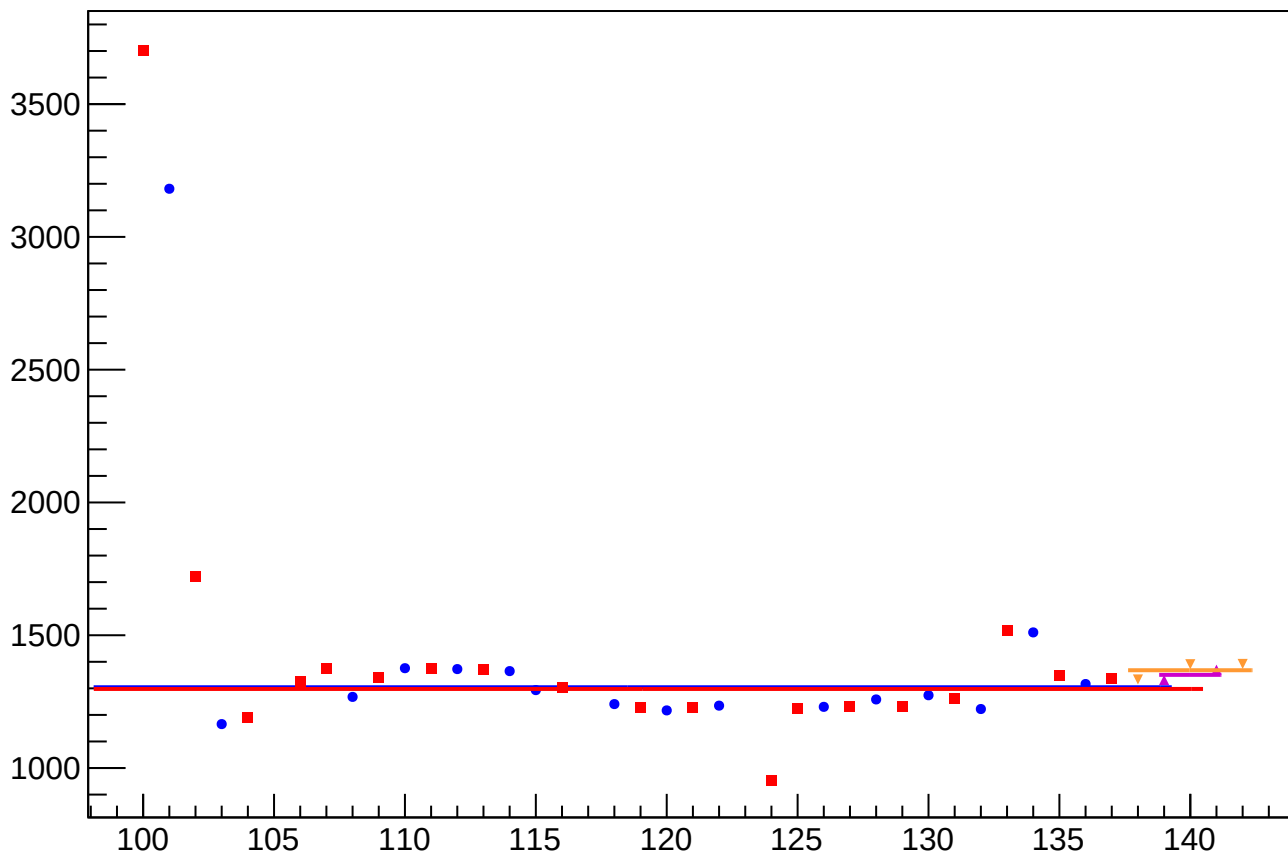
Right: -353.826+/-346.348 χ^2/NDF : 29.5/34

In: -579.681+/-445.302 χ^2/NDF : 15.4/17

Out: -107.337+/-432.622 χ^2/NDF : 20.5/21

All: -336.688+/-310.296 χ^2/NDF : 36.4/39

dit_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1304.102+/-0.349 χ^2/NDF : 510589.4/15

Left Out: 1368.240+/-0.674 χ^2/NDF : 1763.2/2

Right Out: 1297.796+/-0.343 χ^2/NDF : 213096.9/18

Left In: 1350.869+/-0.726 χ^2/NDF : 712.8/1

Left: 1360.204+/-0.494 χ^2/NDF : 2783.5/4

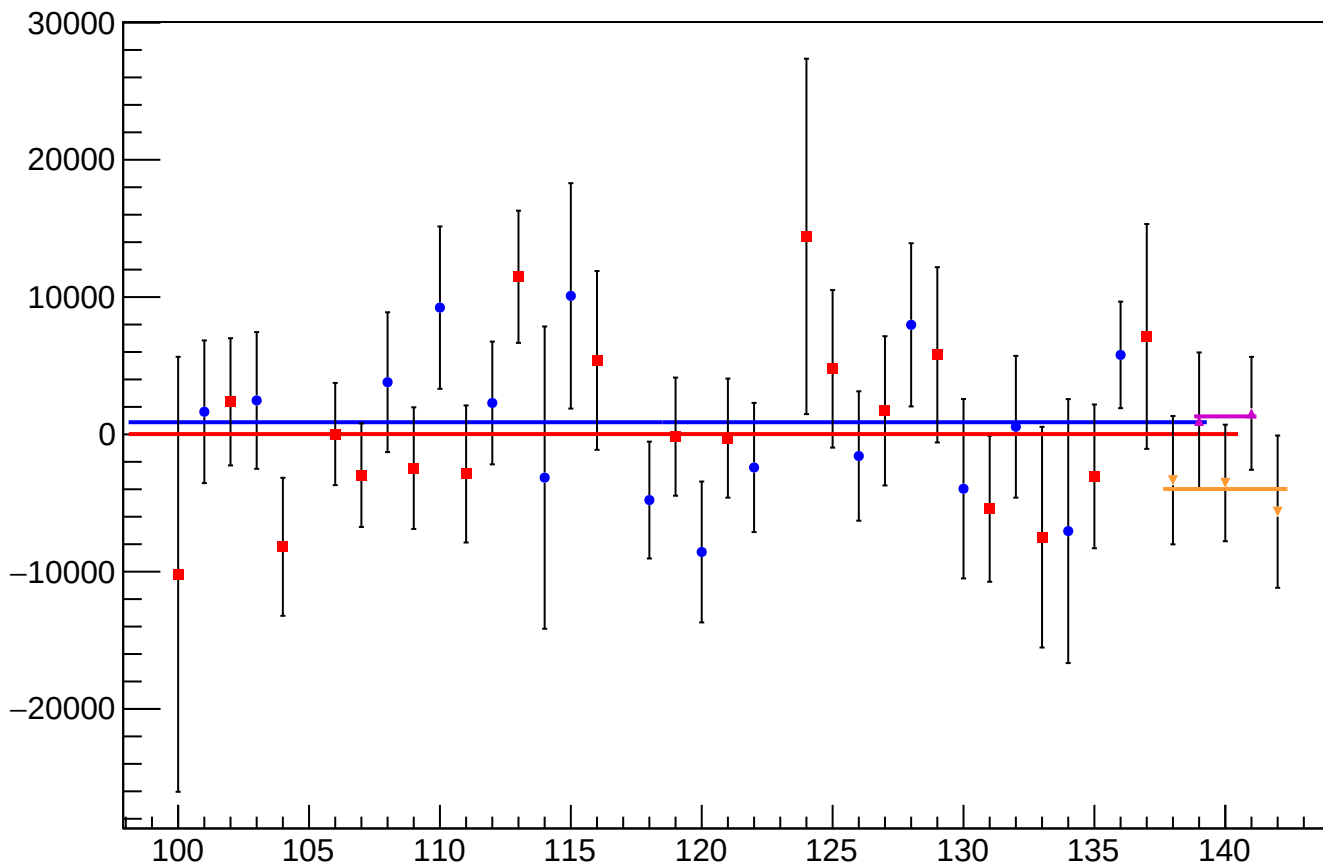
Right: 1300.891+/-0.245 χ^2/NDF : 723852.1/34

In: 1312.896+/-0.315 χ^2/NDF : 514670.3/17

Out: 1312.300+/-0.306 χ^2/NDF : 223540.5/21

All: 1312.589+/-0.219 χ^2/NDF : 738212.6/39

asym_atl_dd_atr_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.058+/-1327.399 χ^2/NDF : 14.1/15

Left Out: -3978.491+/-2733.713 χ^2/NDF : 0.1/2

Right Out: 20.681+/-1200.015 χ^2/NDF : 16.8/18

Left In: 1309.261+/-3173.459 χ^2/NDF : 0.0/1

Left: -1726.079+/-2071.196 χ^2/NDF : 1.7/4

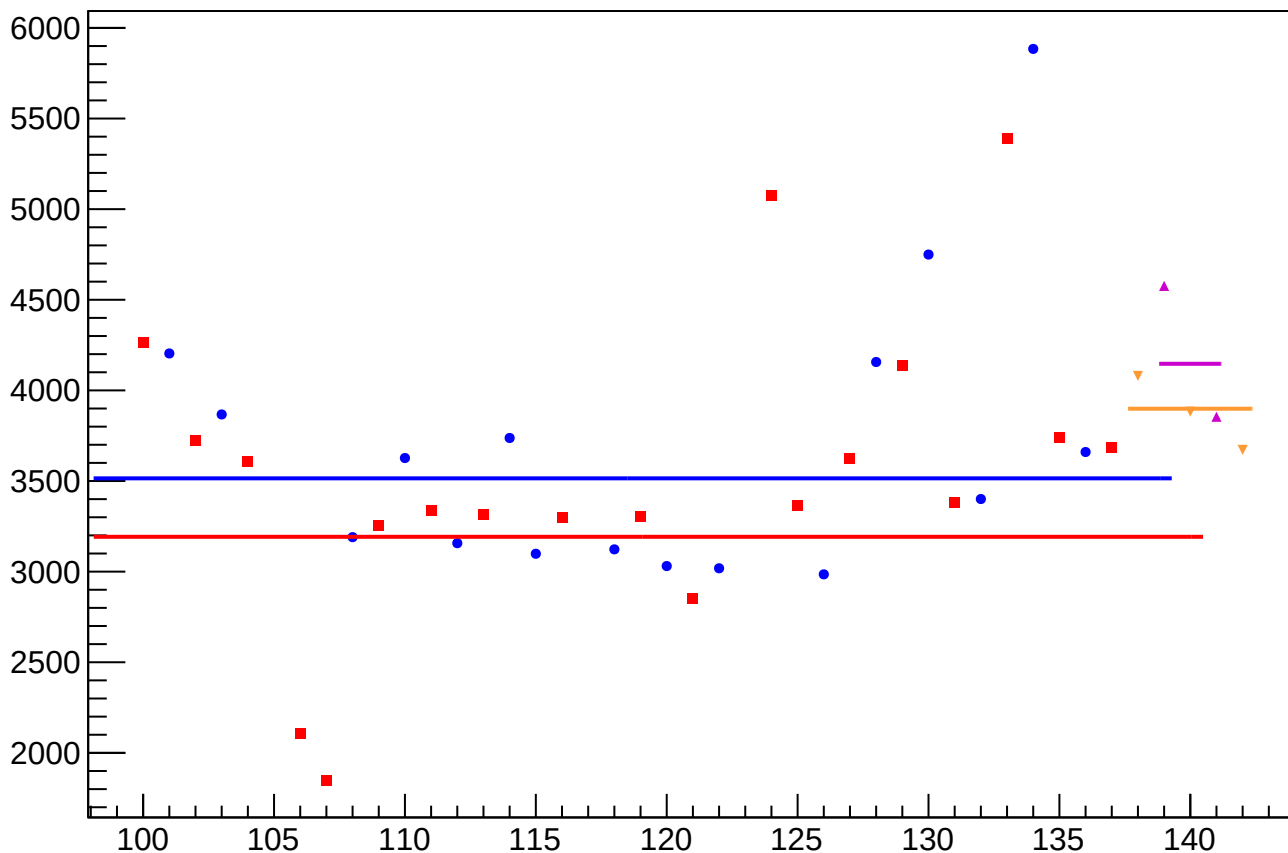
Right: 408.965+/-890.176 χ^2/NDF : 31.2/34

In: 947.373+/-1224.588 χ^2/NDF : 14.1/17

Out: -625.432+/-1098.809 χ^2/NDF : 18.7/21

All: 76.074+/-817.840 χ^2/NDF : 33.8/39

asym_atl_dd_atr_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.746 $\pm$ 0.939 χ^2 /NDF: 375078.6/15

Left Out: 3898.865 $\pm$ 1.933 χ^2 /NDF: 6386.5/2

Right Out: 3192.203 $\pm$ 0.849 χ^2 /NDF: 772495.7/18

Left In: 4146.801 $\pm$ 2.244 χ^2 /NDF: 24941.6/1

Left: 4004.477 $\pm$ 1.465 χ^2 /NDF: 38335.8/4

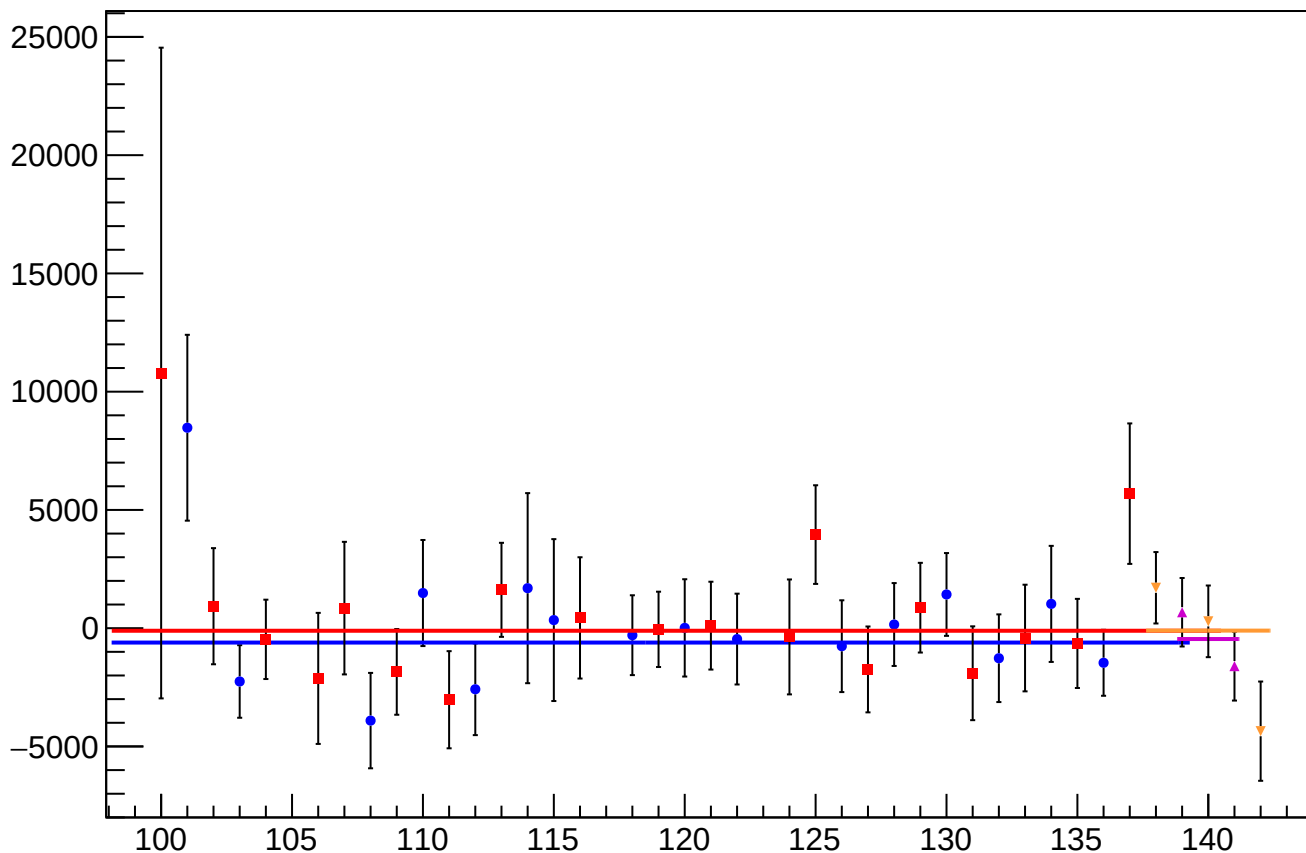
Right: 3337.259 $\pm$ 0.629 χ^2 /NDF: 1212554.2/34

In: 3608.863 $\pm$ 0.866 χ^2 /NDF: 467543.2/17

Out: 3306.373 $\pm$ 0.777 χ^2 /NDF: 890933.7/21

All: 3441.290 $\pm$ 0.578 χ^2 /NDF: 1426079.6/39

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -607.834+/-494.182 χ^2/NDF : 14.1/15

Left Out: -102.431+/-952.859 χ^2/NDF : 5.6/2

Right Out: -108.619+/-485.553 χ^2/NDF : 14.9/18

Left In: -458.120+/-1026.914 χ^2/NDF : 1.2/1

Left: -266.989+/-698.488 χ^2/NDF : 6.9/4

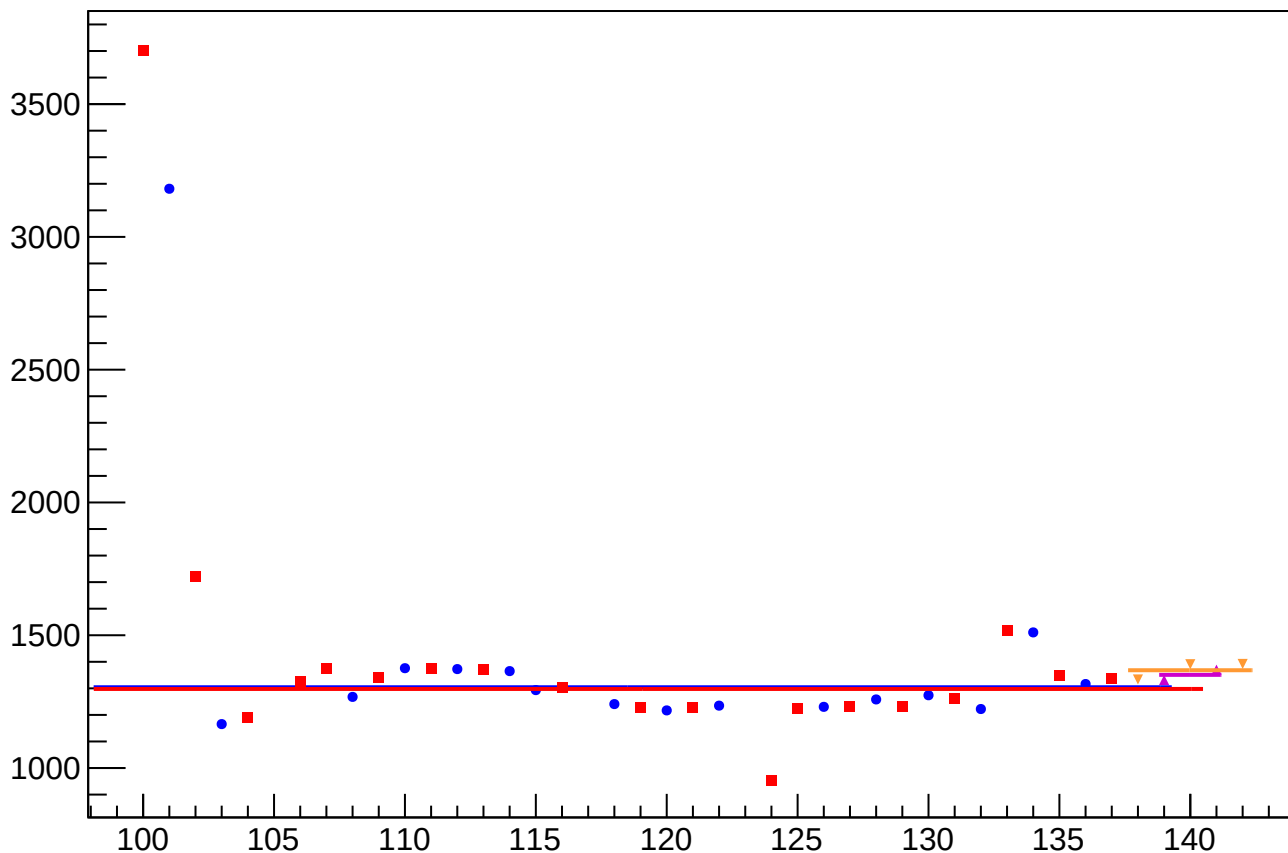
Right: -353.830+/-346.348 χ^2/NDF : 29.5/34

In: -579.682+/-445.302 χ^2/NDF : 15.4/17

Out: -107.344+/-432.622 χ^2/NDF : 20.5/21

All: -336.692+/-310.296 χ^2/NDF : 36.4/39

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1304.102+/-0.349 χ^2/NDF : 510589.6/15

Left Out: 1368.241+/-0.674 χ^2/NDF : 1763.2/2

Right Out: 1297.796+/-0.343 χ^2/NDF : 213097.0/18

Left In: 1350.870+/-0.726 χ^2/NDF : 712.8/1

Left: 1360.204+/-0.494 χ^2/NDF : 2783.5/4

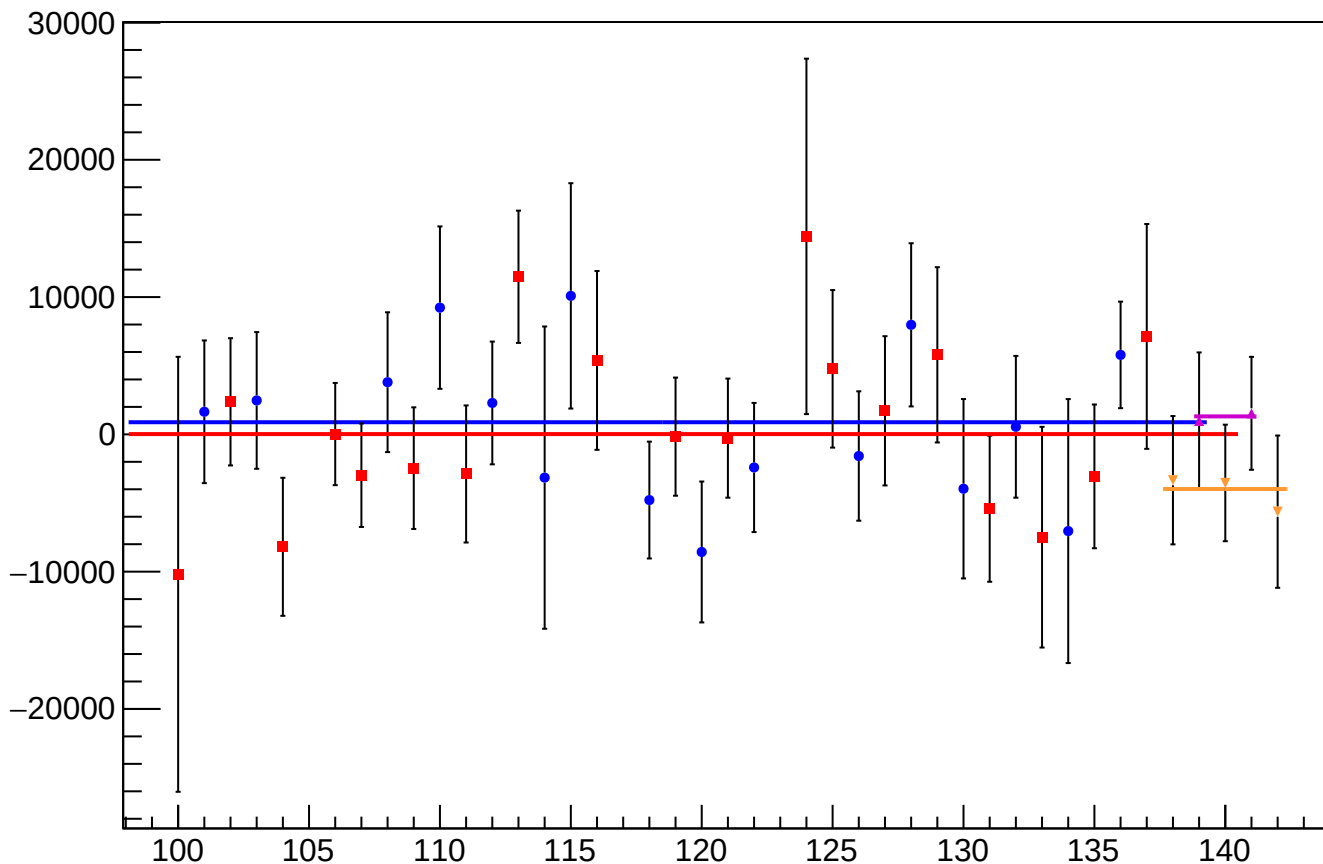
Right: 1300.891+/-0.245 χ^2/NDF : 723852.4/34

In: 1312.896+/-0.315 χ^2/NDF : 514670.6/17

Out: 1312.300+/-0.306 χ^2/NDF : 223540.7/21

All: 1312.590+/-0.219 χ^2/NDF : 738213.1/39

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.047 ± 1327.396 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -3978.505 ± 2733.718 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 20.677 ± 1200.012 $\chi^2/\text{NDF}: 16.8/18$

Left In: 1309.271 ± 3173.463 $\chi^2/\text{NDF}: 0.0/1$

Left: -1726.083 ± 2071.199 $\chi^2/\text{NDF}: 1.7/4$

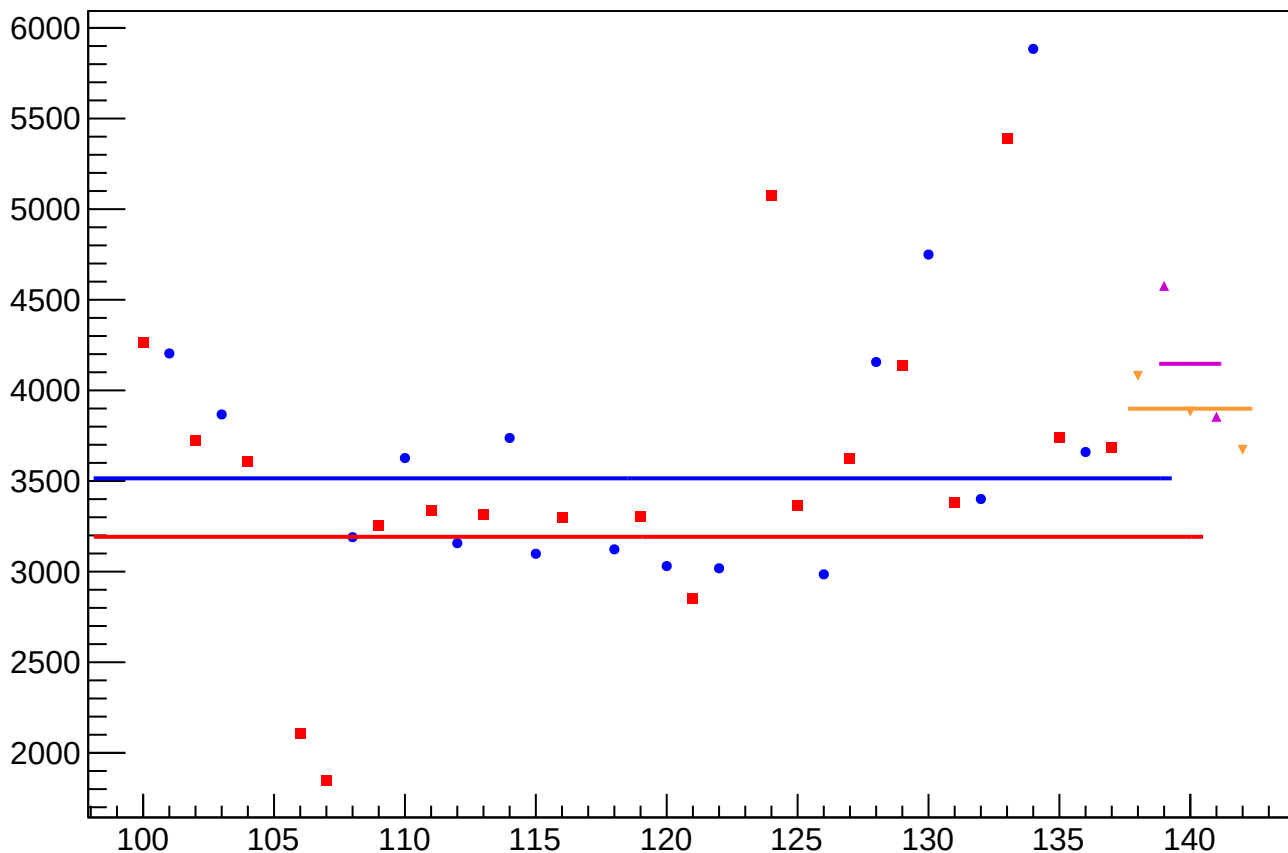
Right: 408.958 ± 890.174 $\chi^2/\text{NDF}: 31.2/34$

In: 947.365 ± 1224.586 $\chi^2/\text{NDF}: 14.1/17$

Out: -625.433 ± 1098.807 $\chi^2/\text{NDF}: 18.7/21$

All: 76.070 ± 817.838 $\chi^2/\text{NDF}: 33.8/39$

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.737 $\pm$ 0.939 χ^2 /NDF: 375082.8/15

Left Out: 3898.871 $\pm$ 1.933 χ^2 /NDF: 6386.6/2

Right Out: 3192.196 $\pm$ 0.849 χ^2 /NDF: 772497.9/18

Left In: 4146.807 $\pm$ 2.244 χ^2 /NDF: 24942.3/1

Left: 4004.484 $\pm$ 1.465 χ^2 /NDF: 38336.6/4

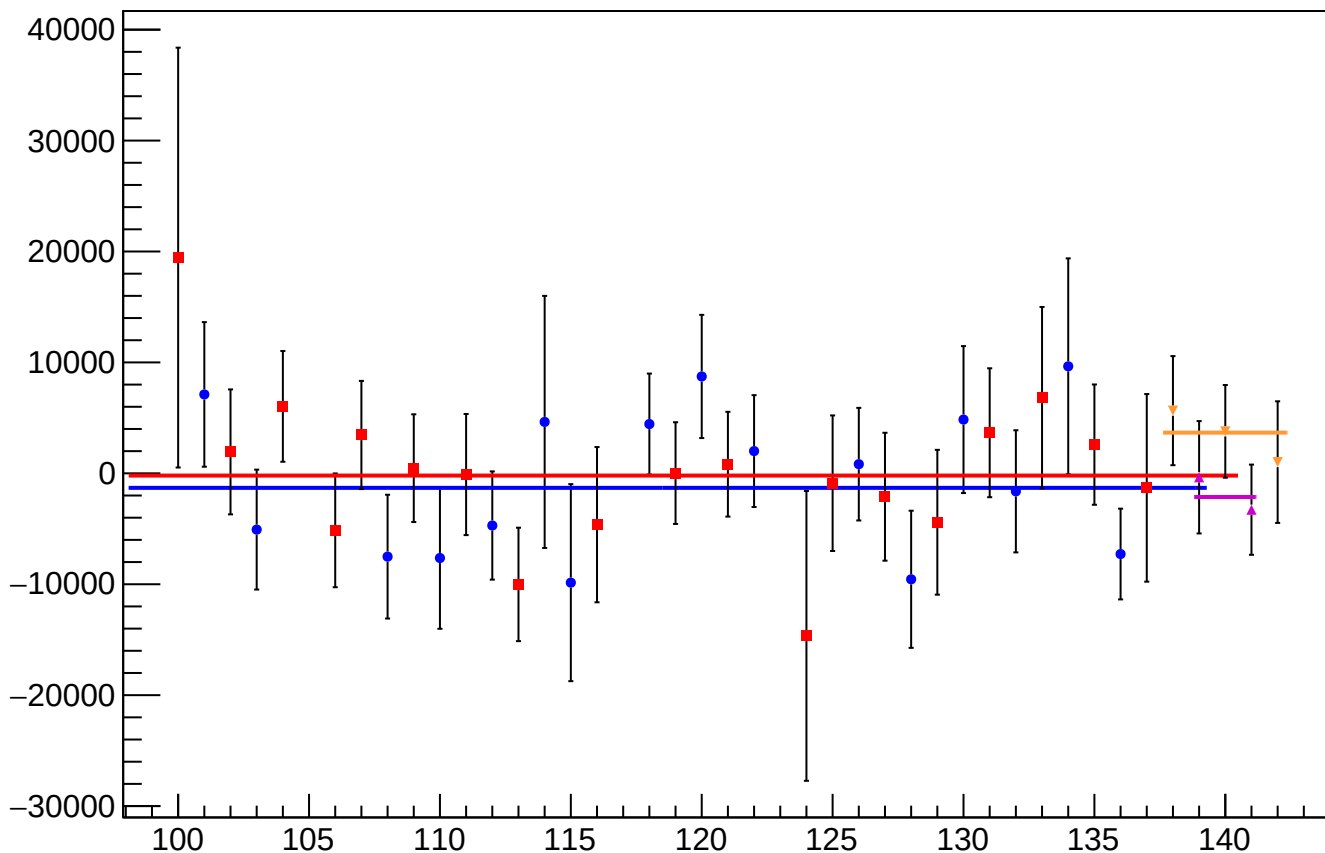
Right: 3337.251 $\pm$ 0.629 χ^2 /NDF: 1212560.4/34

In: 3608.855 $\pm$ 0.866 χ^2 /NDF: 467551.1/17

Out: 3306.367 $\pm$ 0.777 χ^2 /NDF: 890940.4/21

All: 3441.283 $\pm$ 0.578 χ^2 /NDF: 1426094.0/39

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1309.349+/-1431.624 χ^2/NDF : 17.6/15

Left Out: 3669.705+/-2753.396 χ^2/NDF : 0.4/2

Right Out: -201.593+/-1336.062 χ^2/NDF : 11.6/18

Left In: -2133.541+/-3171.289 χ^2/NDF : 0.2/1

Left: 1175.383+/-2079.106 χ^2/NDF : 2.5/4

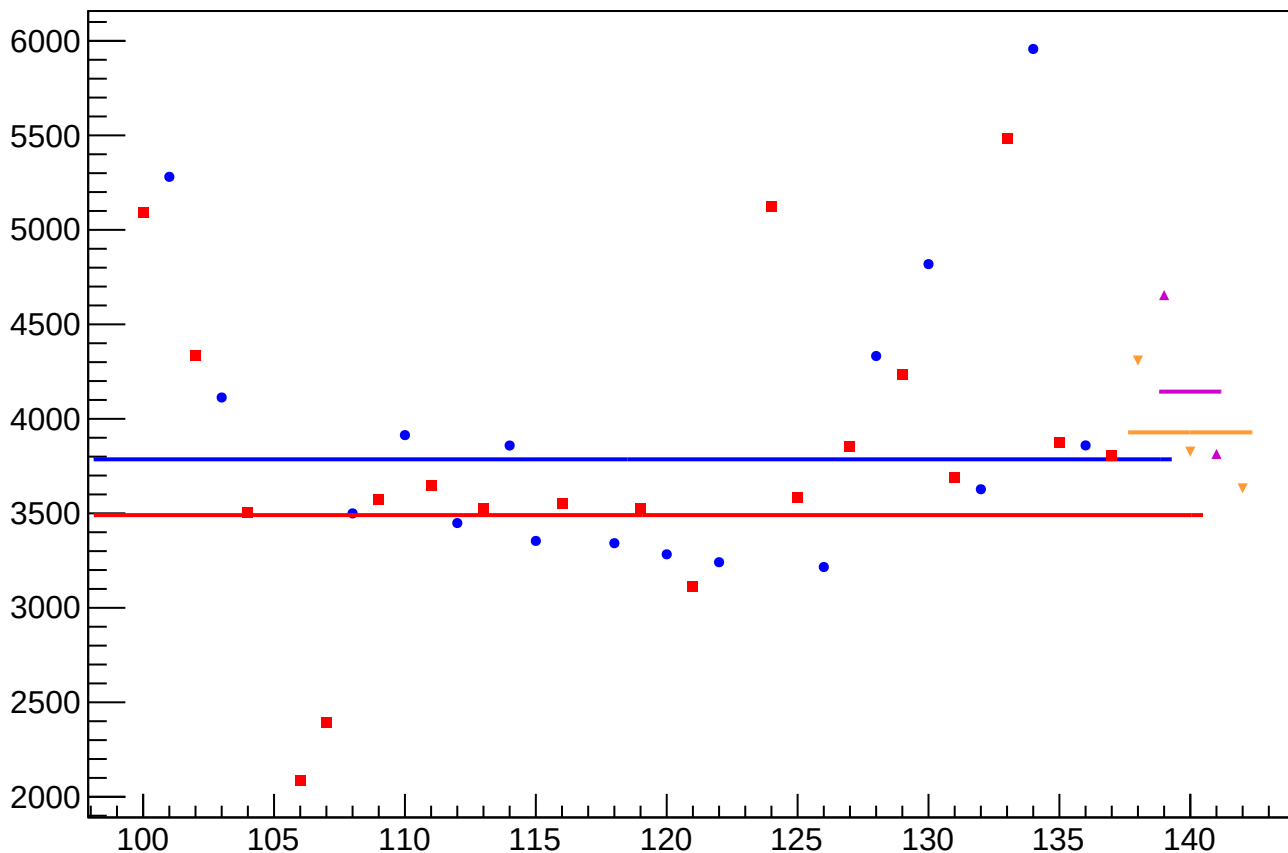
Right: -717.269+/-976.776 χ^2/NDF : 29.5/34

In: -1448.878+/-1304.828 χ^2/NDF : 17.8/17

Out: 536.216+/-1202.022 χ^2/NDF : 13.6/21

All: -375.059+/-884.072 χ^2/NDF : 32.7/39

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3785.774+/-1.012 χ^2/NDF : 382992.9/15

Left Out: 3928.391+/-1.947 χ^2/NDF : 18979.5/2

Right Out: 3490.614+/-0.932 χ^2/NDF : 586715.1/18

Left In: 4143.971+/-2.242 χ^2/NDF : 33477.9/1

Left: 4021.050+/-1.470 χ^2/NDF : 57727.2/4

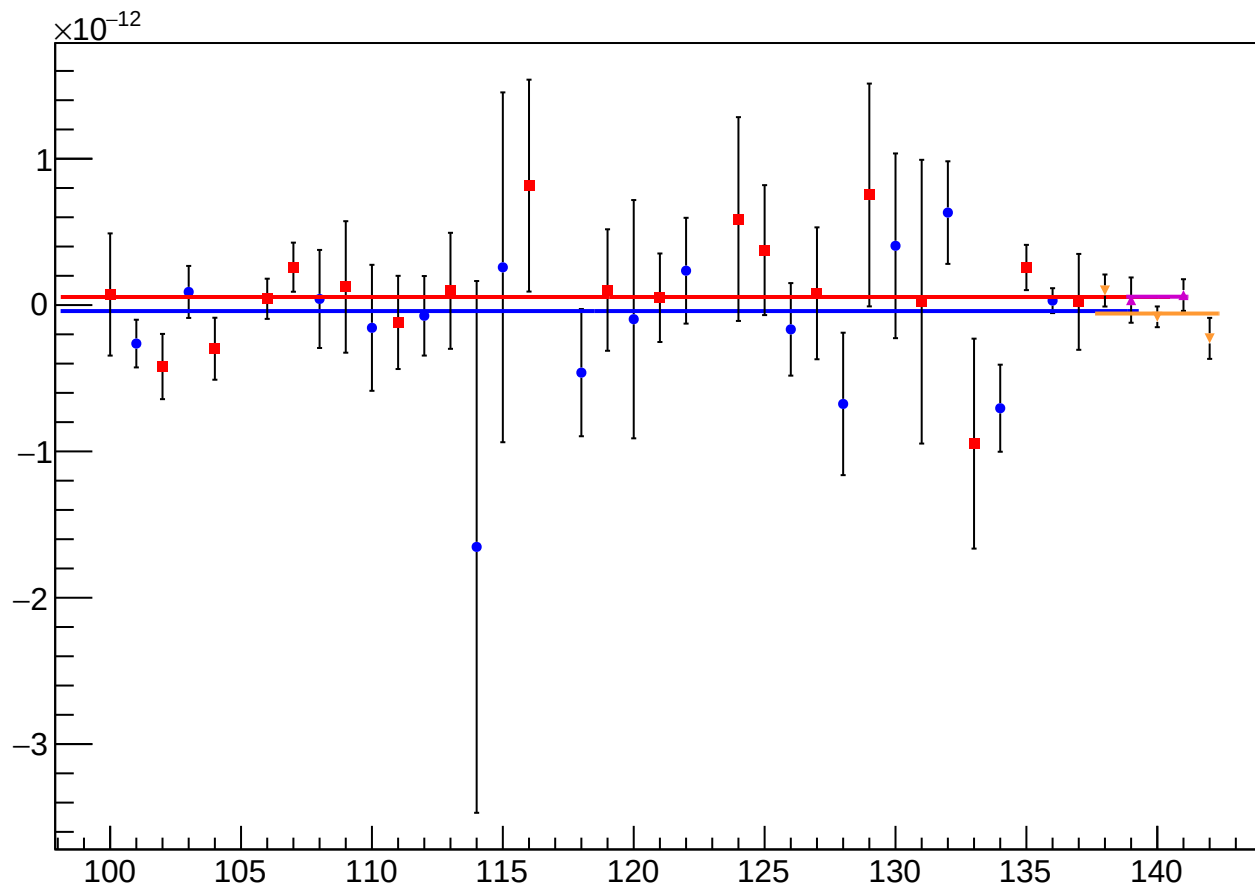
Right: 3626.002+/-0.686 χ^2/NDF : 1015727.1/34

In: 3846.413+/-0.923 χ^2/NDF : 437666.8/17

Out: 3572.209+/-0.841 χ^2/NDF : 646830.2/21

All: 3696.570+/-0.621 χ^2/NDF : 1132762.7/39

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 15.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 4.9/4

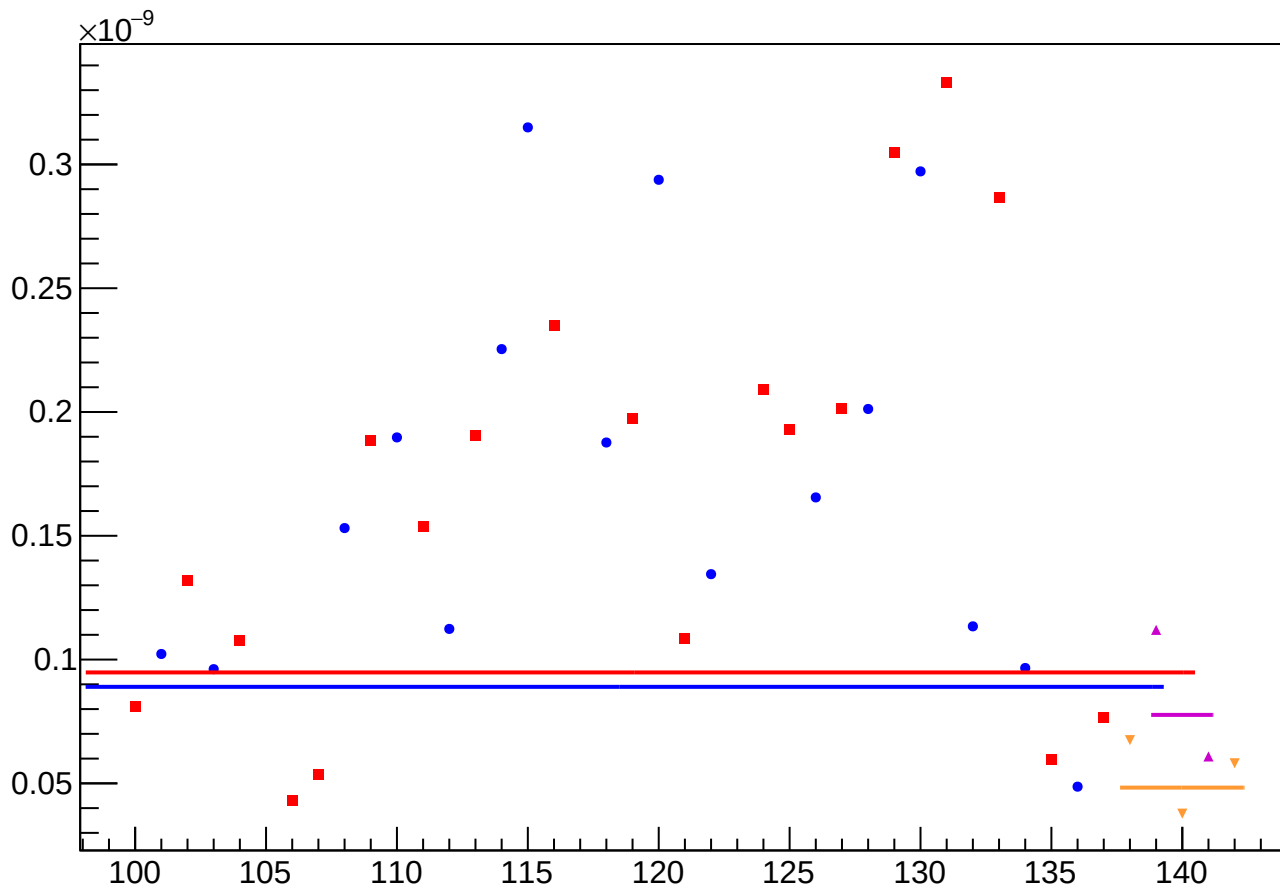
Right: 0.000+/-0.000 χ^2/NDF : 33.7/34

In: -0.000+/-0.000 χ^2/NDF : 17.5/17

Out: -0.000+/-0.000 χ^2/NDF : 21.3/21

All: -0.000+/-0.000 χ^2/NDF : 38.8/39

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2 /NDF: 1460718.5/15

Left Out: 0.000+/-0.000 χ^2 /NDF:115302.1/2

Right Out: 0.000+/-0.000 χ^2 /NDF: 1734601.4/18

Left In: 0.000+/-0.000 χ^2 /NDF:146700.5/1

Left: 0.000+/-0.000 χ^2 /NDF: 420888.3/4

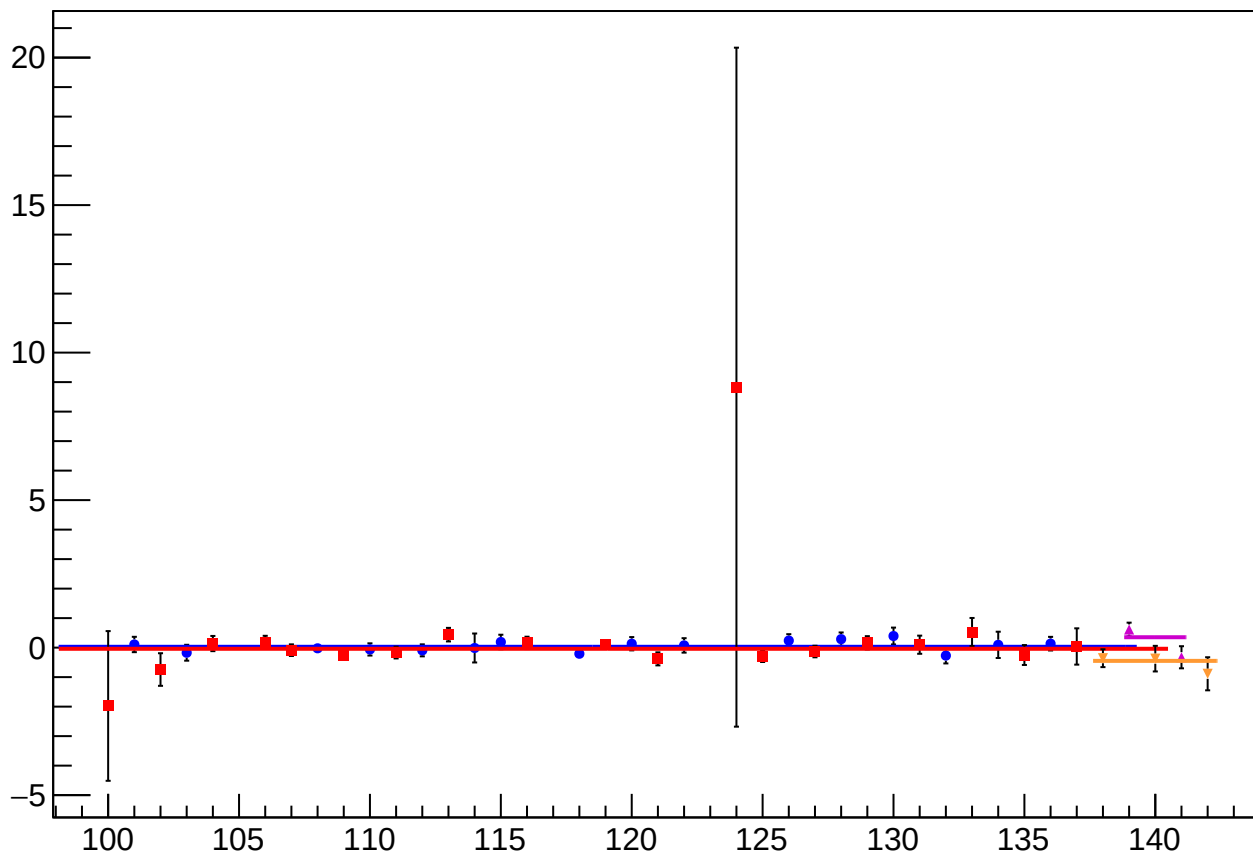
Right: 0.000+/-0.000 χ^2 /NDF: 3204262.4/34

In: 0.000+/-0.000 χ^2 /NDF:1630065.3/17

Out: 0.000+/-0.000 χ^2 /NDF:2460539.3/21

All: 0.000+/-0.000 χ^2 /NDF: 4239383.6/39

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 $\chi^2/\text{NDF}: 9.4/15$

Left Out: -0.449 ± 0.227 $\chi^2/\text{NDF}: 0.7/2$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.352 ± 0.198 $\chi^2/\text{NDF}: 4.5/1$

Left: 0.006 ± 0.149 $\chi^2/\text{NDF}: 12.4/4$

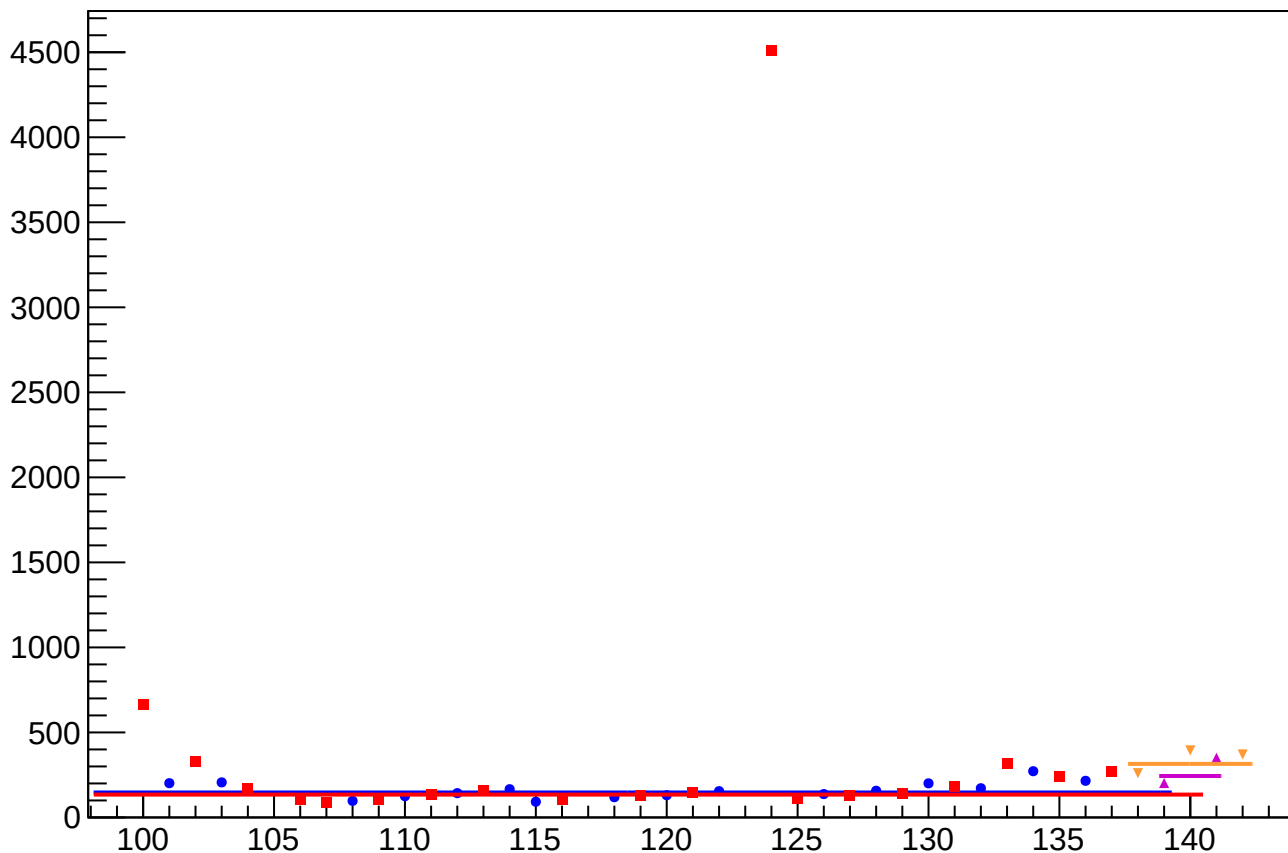
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.053 ± 0.055 $\chi^2/\text{NDF}: 16.5/17$

Out: -0.062 ± 0.053 $\chi^2/\text{NDF}: 23.8/21$

All: -0.006 ± 0.038 $\chi^2/\text{NDF}: 42.5/39$

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 315.050+/-0.160 χ^2/NDF :151154.2/2

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 243.847+/-0.140 χ^2/NDF :226761.4/1

Left: 274.567+/-0.105 χ^2/NDF : 489872.1/4

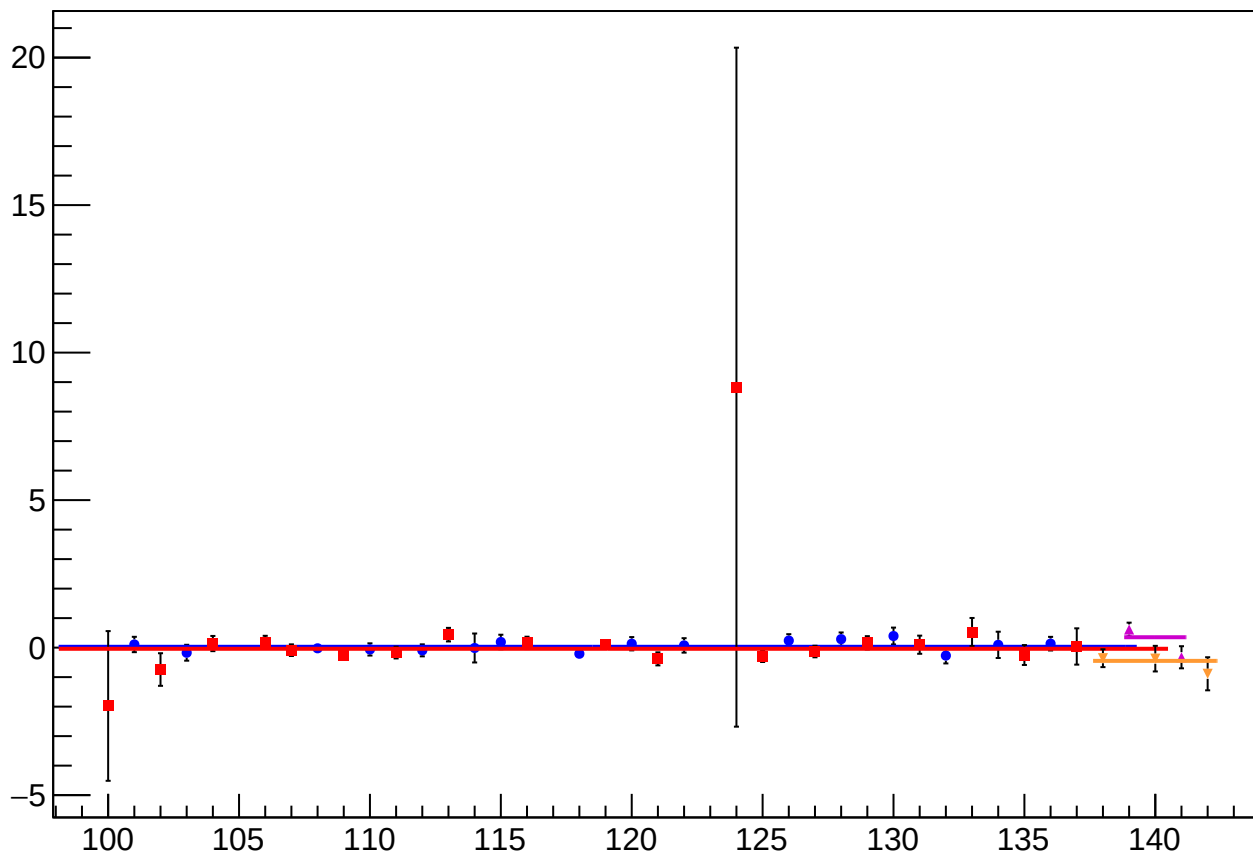
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 154.447+/-0.039 χ^2/NDF :1669400.9/17

Out: 144.446+/-0.038 χ^2/NDF :2953880.4/21

All: 149.250+/-0.027 χ^2/NDF : 4657162.7/39

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 $\chi^2/\text{NDF}: 9.4/15$

Left Out: -0.449 ± 0.227 $\chi^2/\text{NDF}: 0.7/2$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.352 ± 0.198 $\chi^2/\text{NDF}: 4.5/1$

Left: 0.006 ± 0.149 $\chi^2/\text{NDF}: 12.4/4$

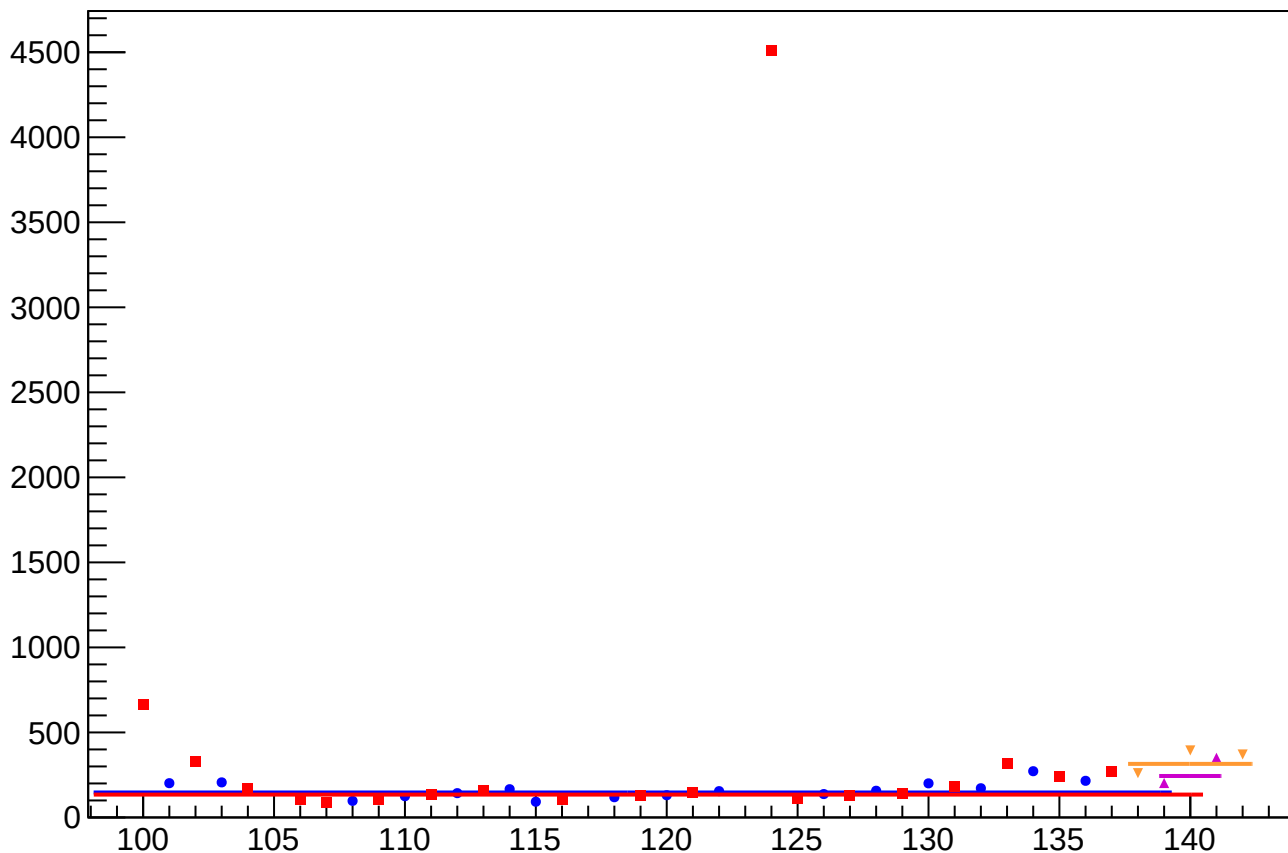
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.053 ± 0.055 $\chi^2/\text{NDF}: 16.5/17$

Out: -0.062 ± 0.053 $\chi^2/\text{NDF}: 23.8/21$

All: -0.006 ± 0.038 $\chi^2/\text{NDF}: 42.5/39$

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 315.050+/-0.160 χ^2/NDF :151154.2/2

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 243.847+/-0.140 χ^2/NDF :226761.4/1

Left: 274.567+/-0.105 χ^2/NDF : 489872.1/4

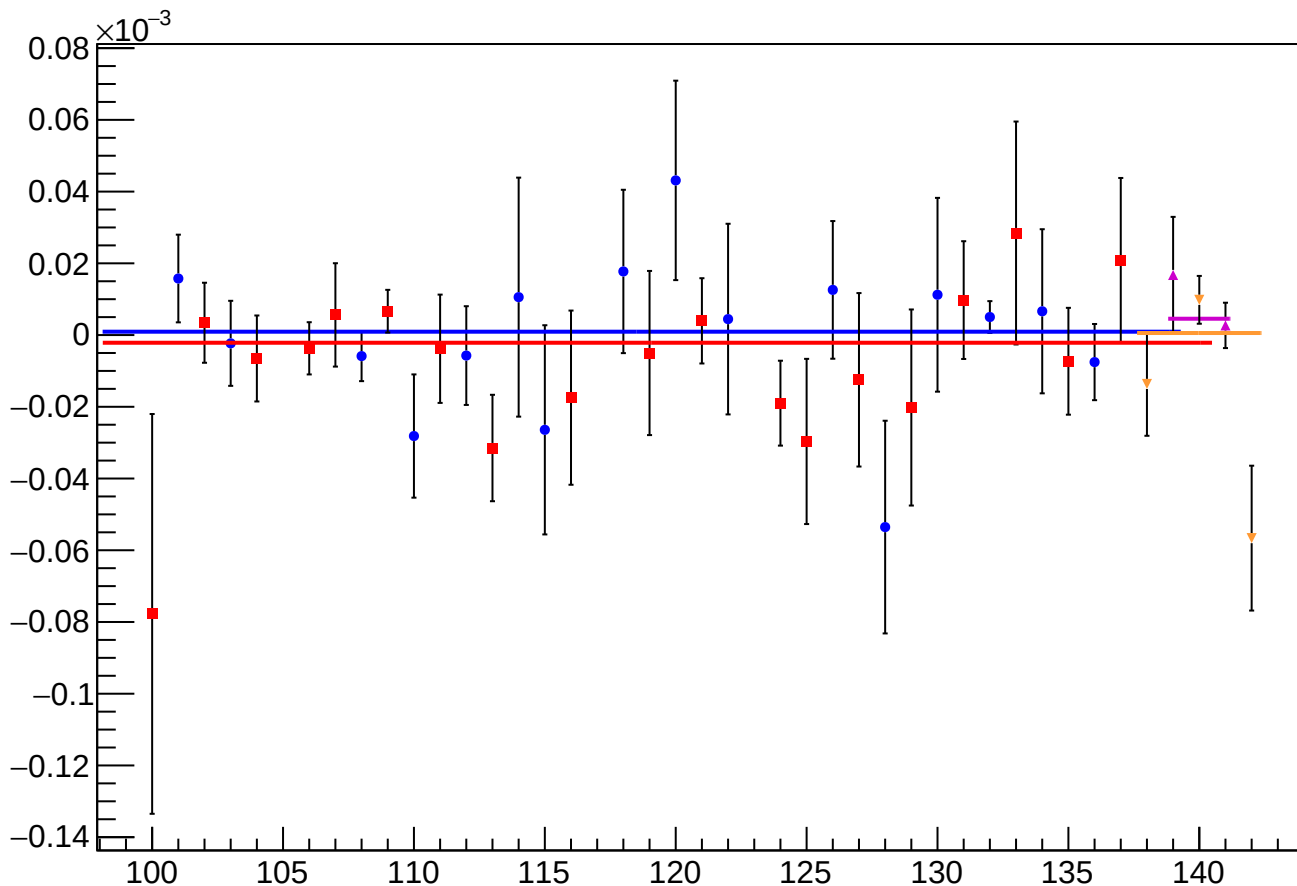
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 154.447+/-0.039 χ^2/NDF :1669400.9/17

Out: 144.446+/-0.038 χ^2/NDF :2953880.4/21

All: 149.250+/-0.027 χ^2/NDF : 4657162.7/39

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14.9/15

Left Out: 0.000+/-0.000 χ^2/NDF :10.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 16.0/18

Left In: 0.000+/-0.000 χ^2/NDF :0.7/1

Left: 0.000+/-0.000 χ^2/NDF : 11.8/4

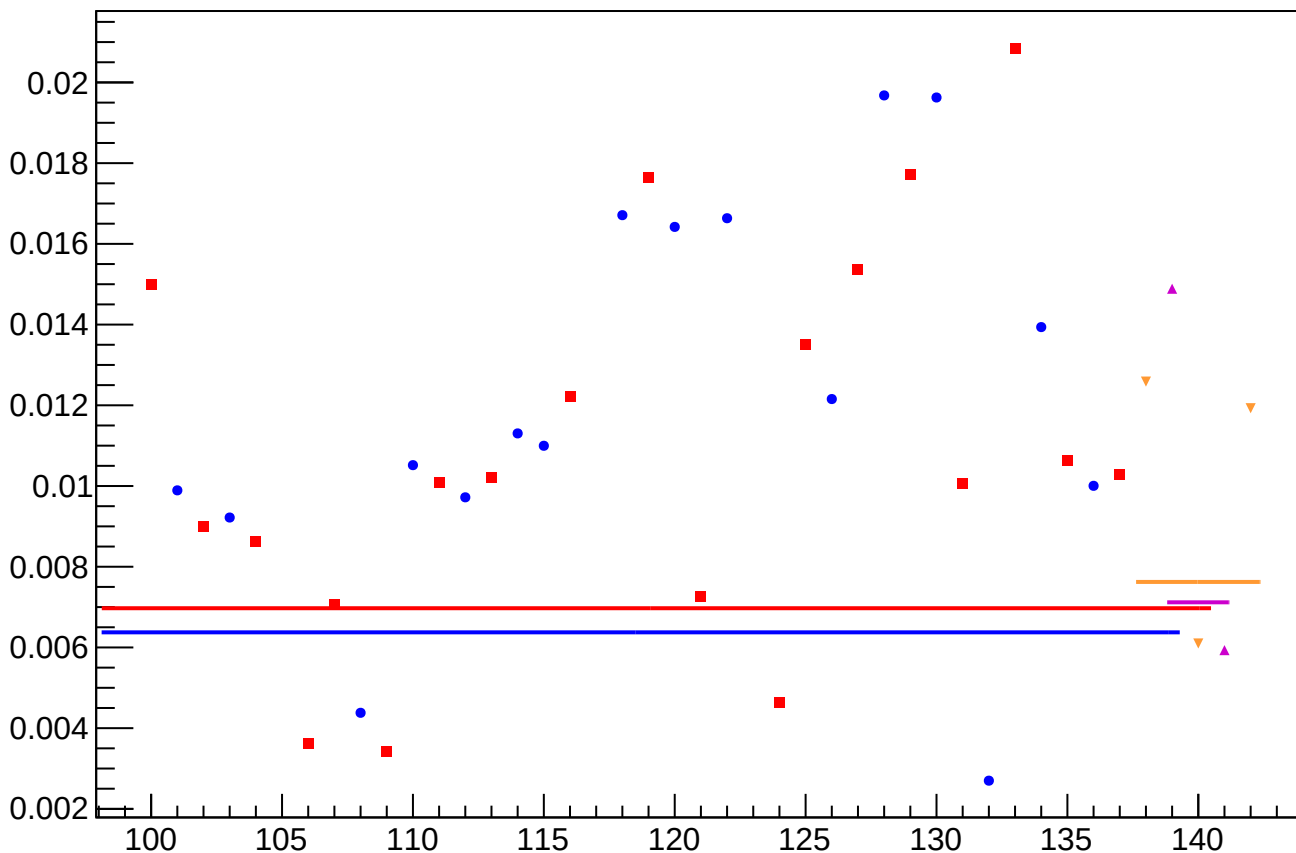
Right: -0.000+/-0.000 χ^2/NDF : 31.5/34

In: 0.000+/-0.000 χ^2/NDF :15.8/17

Out: -0.000+/-0.000 χ^2/NDF :27.1/21

All: 0.000+/-0.000 χ^2/NDF : 43.7/39

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 4639775.7/15

Left Out: 0.008+/-0.000 χ^2/NDF :431485.1/2

Right Out: 0.007+/-0.000 χ^2/NDF : 3409939.3/18

Left In: 0.007+/-0.000 χ^2/NDF :530472.1/1

Left: 0.007+/-0.000 χ^2/NDF : 969424.7/4

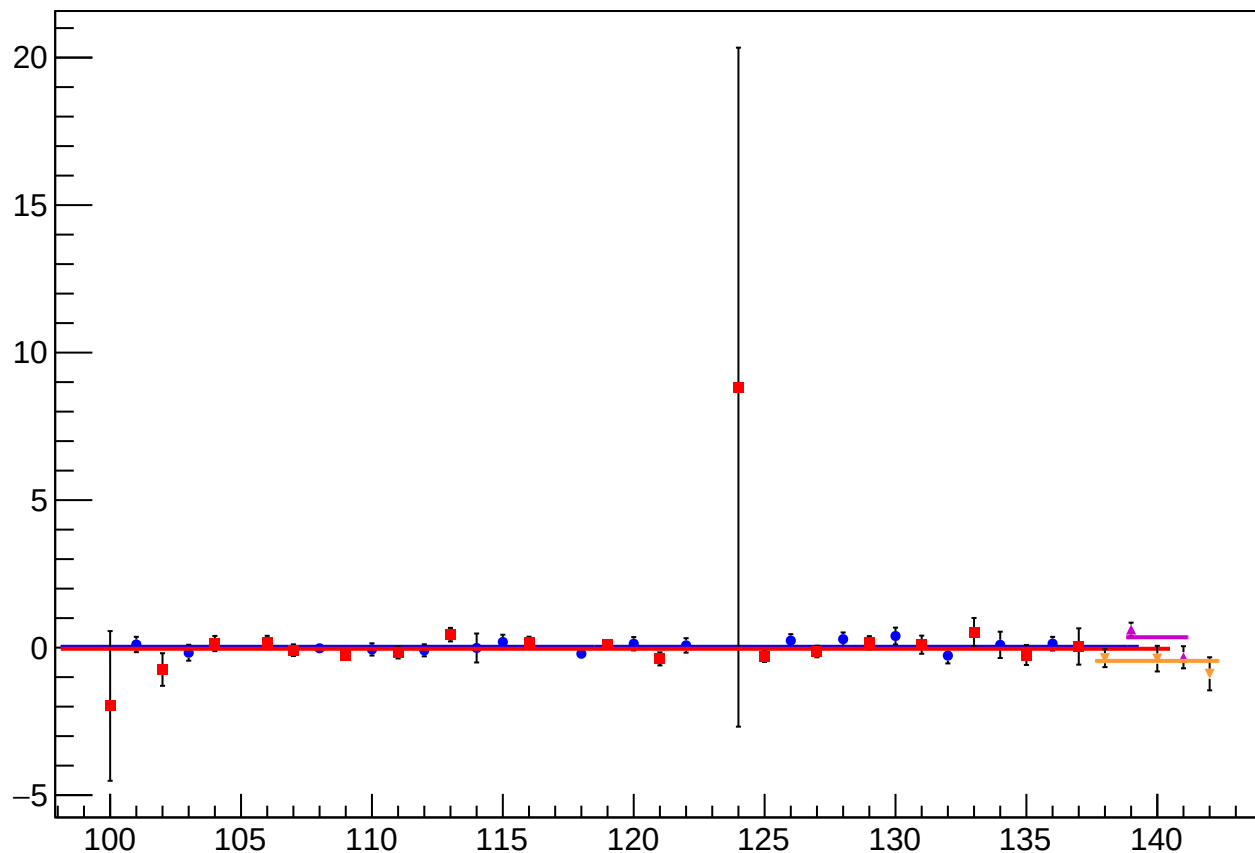
Right: 0.007+/-0.000 χ^2/NDF : 8090163.7/34

In: 0.007+/-0.000 χ^2/NDF :5195831.4/17

Out: 0.007+/-0.000 χ^2/NDF :3861313.6/21

All: 0.007+/-0.000 χ^2/NDF : 9106594.6/39

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.449 $\pm$ 0.227 χ^2 /NDF:0.7/2

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.352 $\pm$ 0.198 χ^2 /NDF:4.5/1

Left: 0.006 $\pm$ 0.149 χ^2 /NDF: 12.4/4

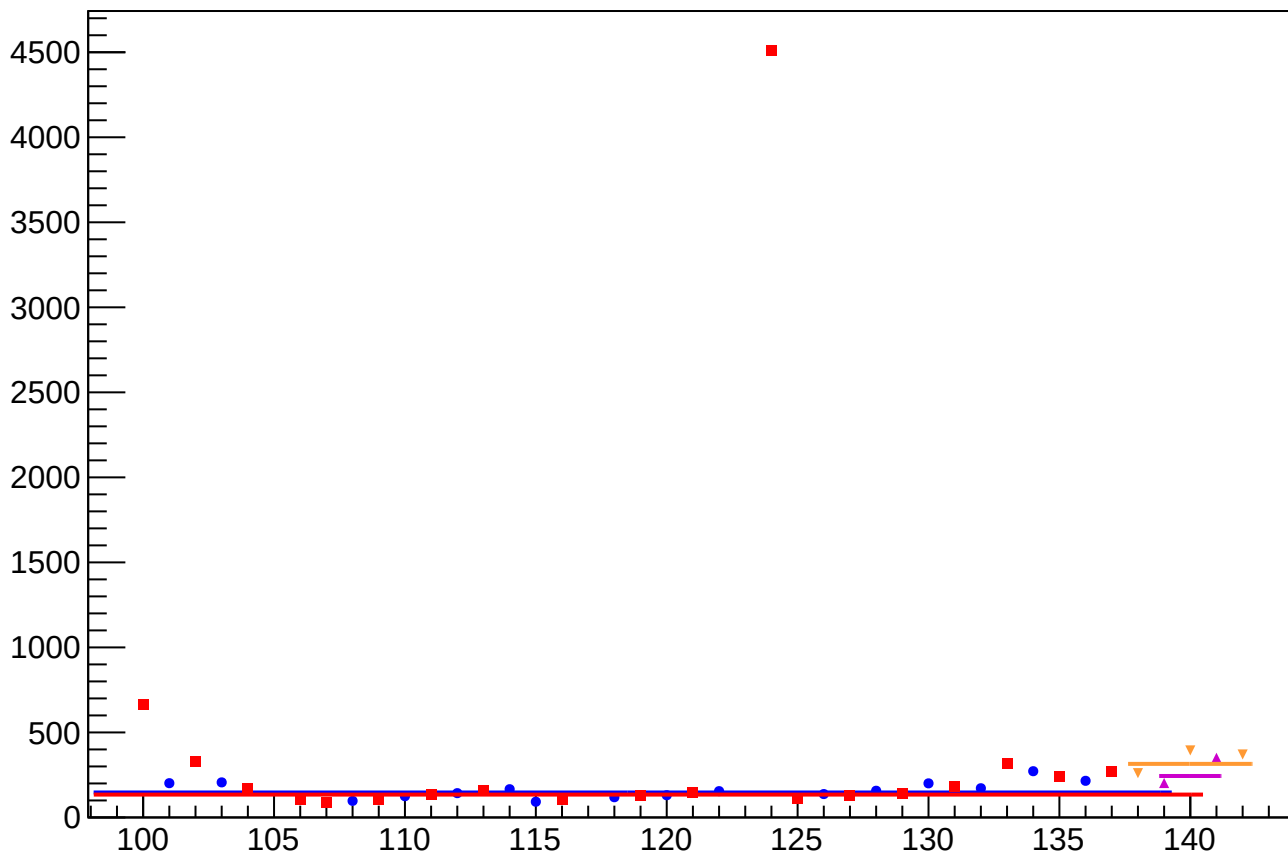
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.053 $\pm$ 0.055 χ^2 /NDF:16.5/17

Out: -0.062 $\pm$ 0.053 χ^2 /NDF:23.8/21

All: -0.006 $\pm$ 0.038 χ^2 /NDF: 42.5/39

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998646.8/15

Left Out: 315.054+/-0.160 χ^2/NDF :151150.3/2

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 243.852+/-0.140 χ^2/NDF :226749.0/1

Left: 274.572+/-0.105 χ^2/NDF : 489850.5/4

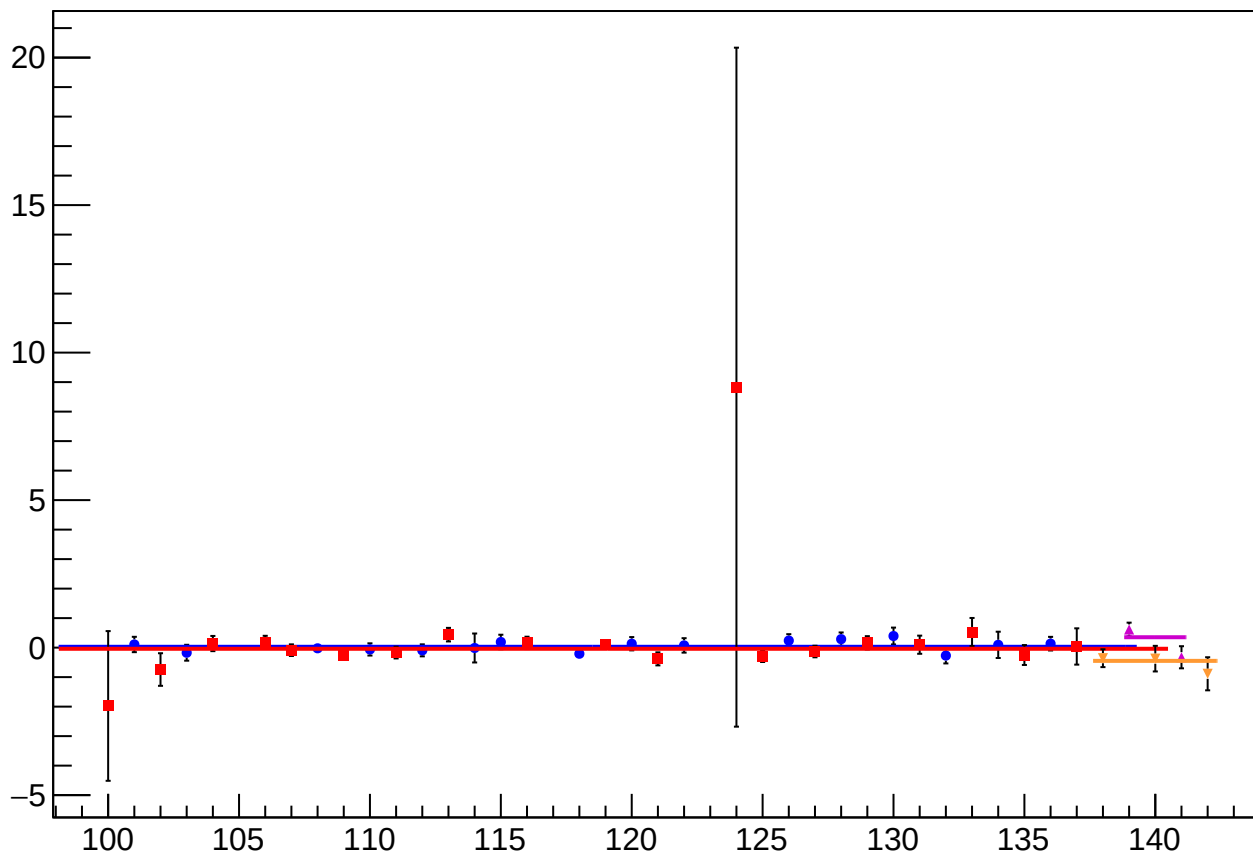
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 154.447+/-0.039 χ^2/NDF :1669358.5/17

Out: 144.448+/-0.038 χ^2/NDF :2953811.0/21

All: 149.250+/-0.027 χ^2/NDF : 4657041.9/39

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 $\chi^2/\text{NDF}: 9.4/15$

Left Out: -0.449 ± 0.227 $\chi^2/\text{NDF}: 0.7/2$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.352 ± 0.198 $\chi^2/\text{NDF}: 4.5/1$

Left: 0.006 ± 0.149 $\chi^2/\text{NDF}: 12.4/4$

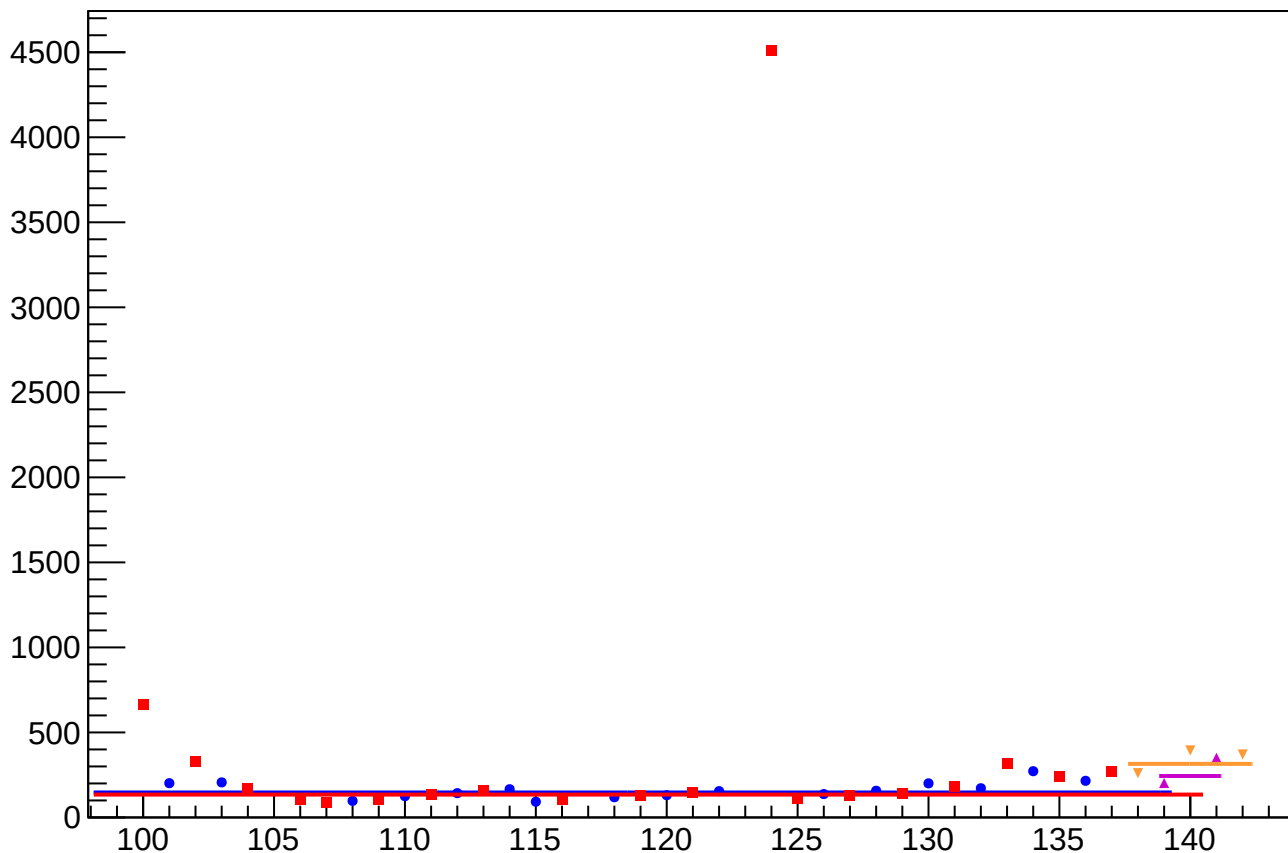
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.053 ± 0.055 $\chi^2/\text{NDF}: 16.5/17$

Out: -0.062 ± 0.053 $\chi^2/\text{NDF}: 23.8/21$

All: -0.006 ± 0.038 $\chi^2/\text{NDF}: 42.5/39$

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998646.8/15

Left Out: 315.054+/-0.160 χ^2/NDF :151150.3/2

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 243.852+/-0.140 χ^2/NDF :226749.0/1

Left: 274.572+/-0.105 χ^2/NDF : 489850.5/4

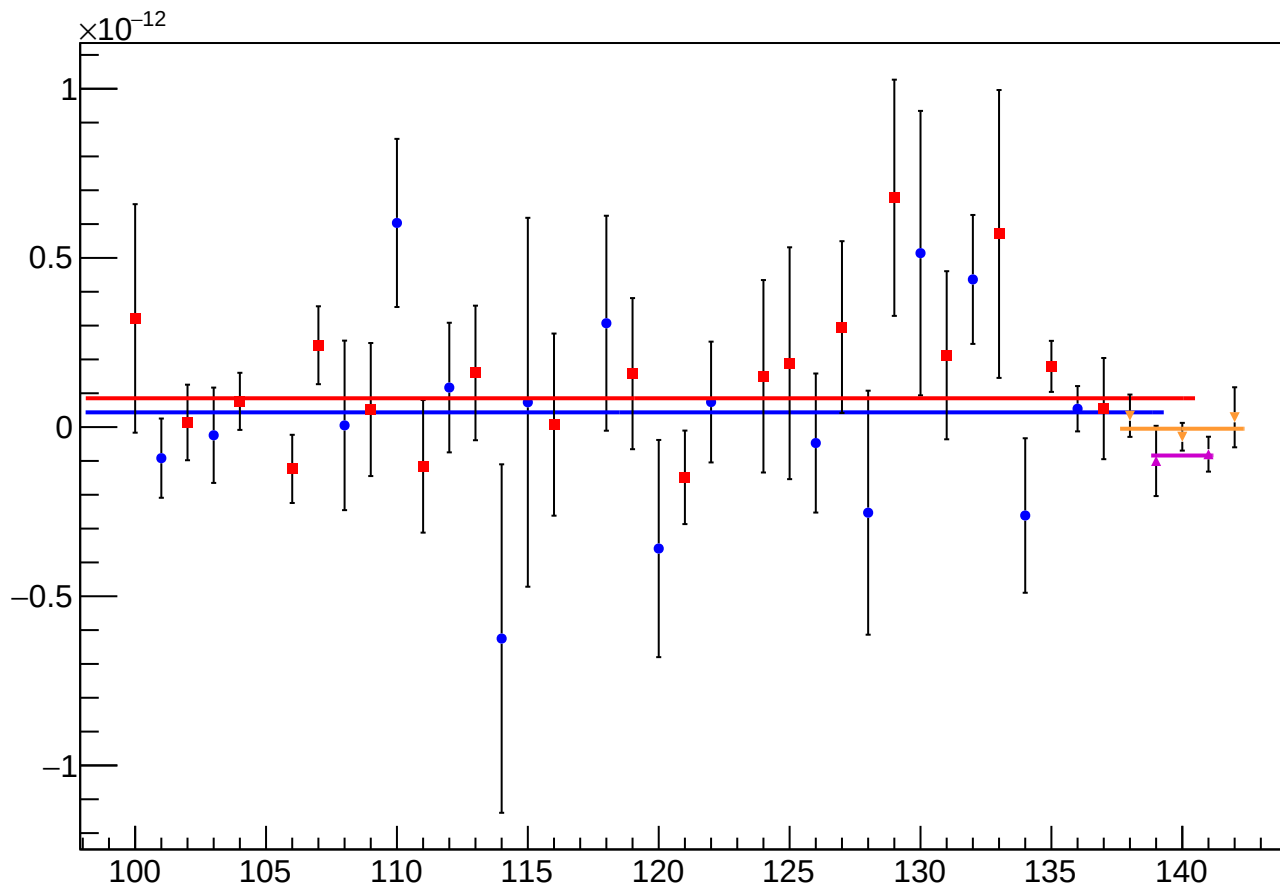
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 154.447+/-0.039 χ^2/NDF :1669358.5/17

Out: 144.448+/-0.038 χ^2/NDF :2953811.0/21

All: 149.250+/-0.027 χ^2/NDF : 4657041.9/39

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 2.9/4

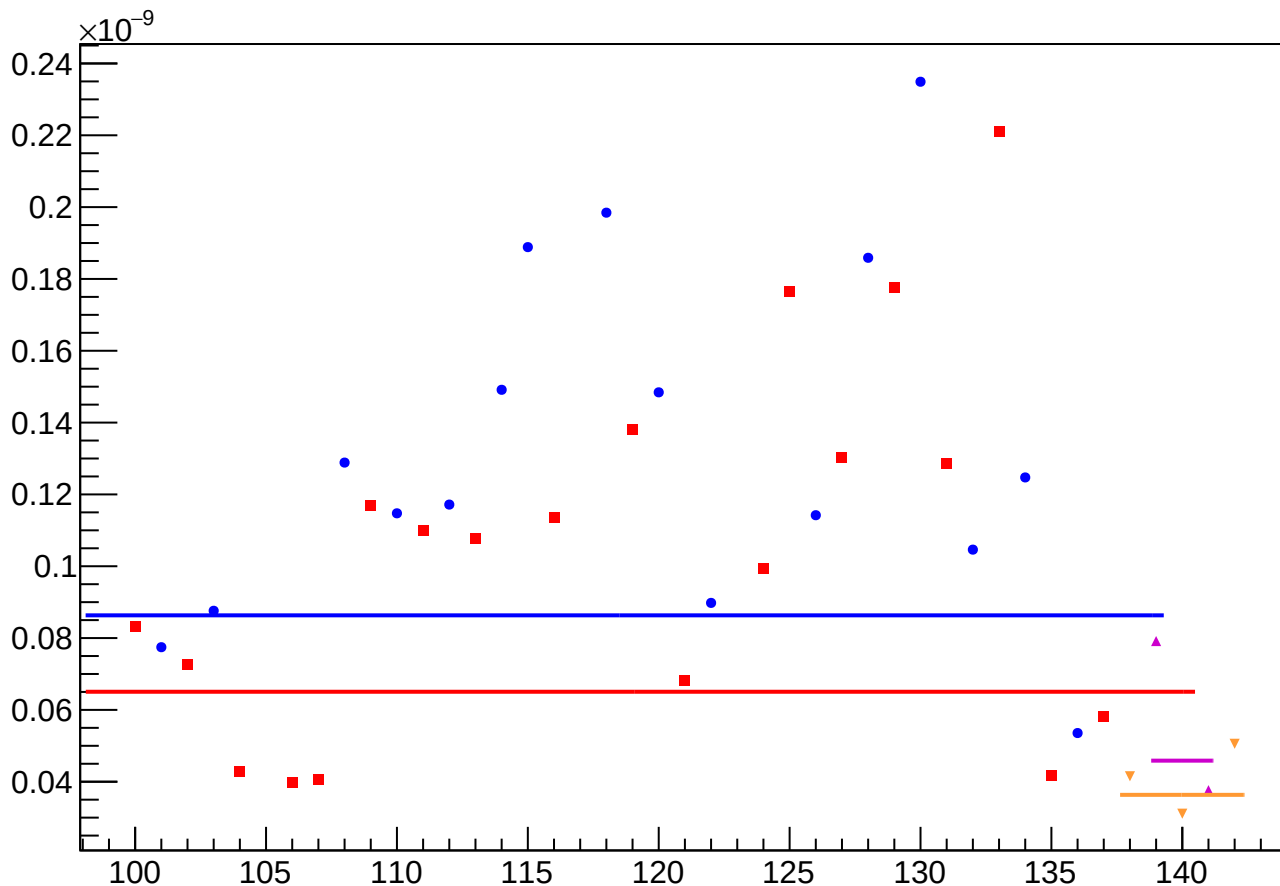
Right: 0.000+/-0.000 χ^2/NDF : 37.8/34

In: -0.000+/-0.000 χ^2/NDF : 23.1/17

Out: 0.000+/-0.000 χ^2/NDF : 22.8/21

All: 0.000+/-0.000 χ^2/NDF : 47.7/39

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1565662.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 97819.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2158861.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 256625.8/1

Left: 0.000+/-0.000 χ^2/NDF : 411929.0/4

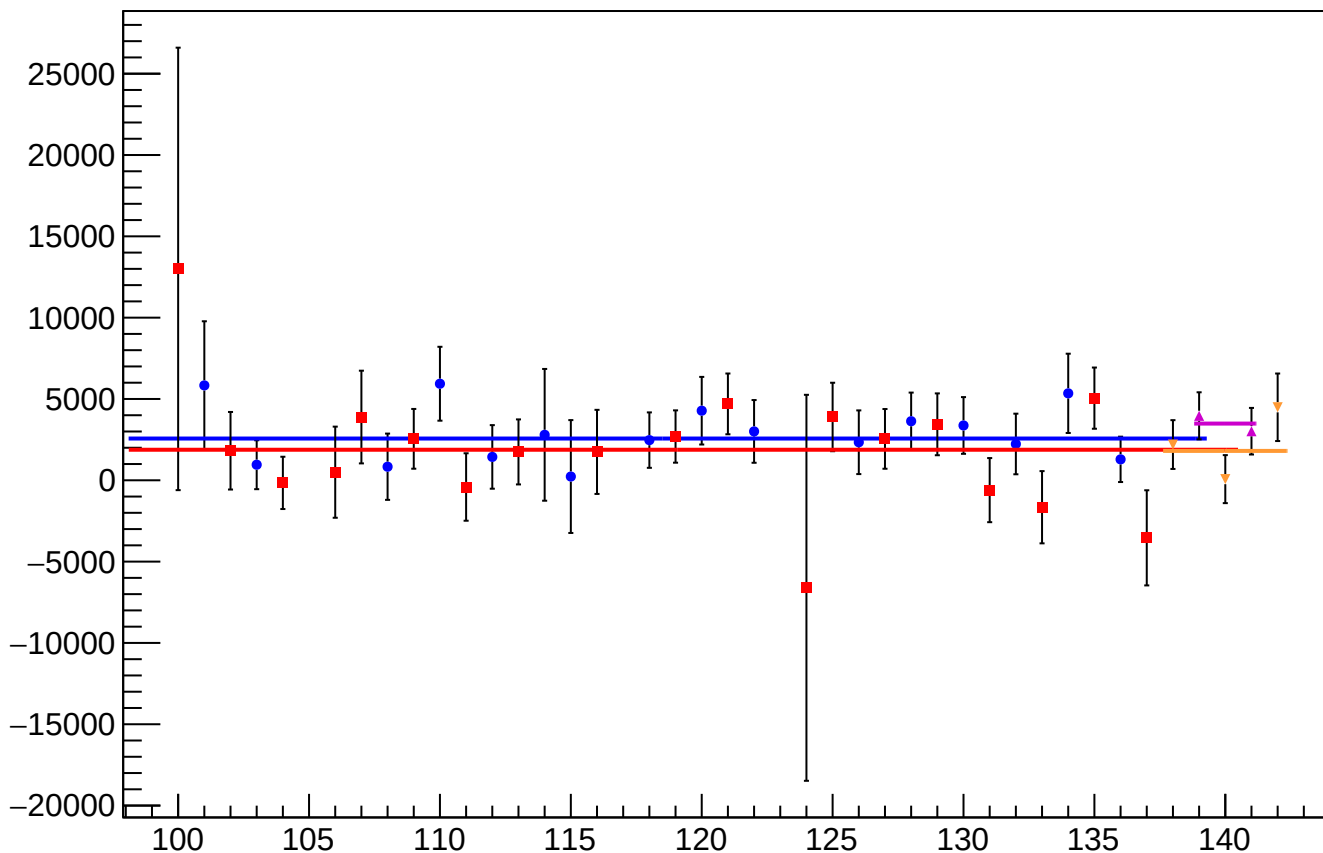
Right: 0.000+/-0.000 χ^2/NDF : 4026528.8/34

In: 0.000+/-0.000 χ^2/NDF : 2649362.1/17

Out: 0.000+/-0.000 χ^2/NDF : 3008059.1/21

All: 0.000+/-0.000 χ^2/NDF : 6078447.6/39

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2567.460 $\pm$ 495.364 χ^2 /NDF: 9.0/15

Left Out: 1806.559 $\pm$ 938.387 χ^2 /NDF:3.1/2

Right Out: 1878.030 $\pm$ 494.719 χ^2 /NDF: 19.5/18

Left In: 3486.669 $\pm$ 1017.829 χ^2 /NDF:0.2/1

Left: 2578.497 $\pm$ 689.917 χ^2 /NDF: 4.8/4

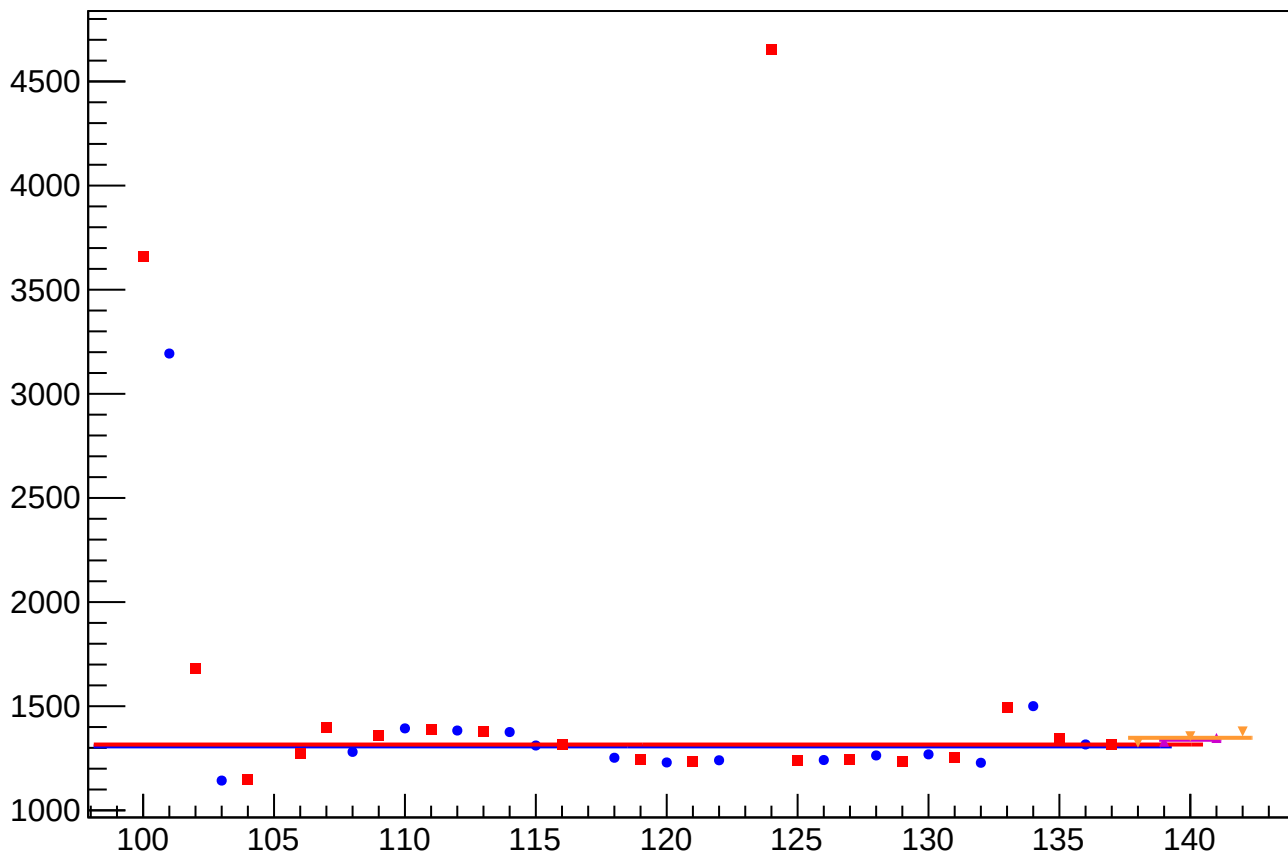
Right: 2222.296 $\pm$ 350.047 χ^2 /NDF: 29.6/34

In: 2743.492 $\pm$ 445.414 χ^2 /NDF:9.9/17

Out: 1862.485 $\pm$ 437.626 χ^2 /NDF:22.7/21

All: 2295.220 $\pm$ 312.165 χ^2 /NDF: 34.6/39

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1307.068+/-0.350 χ^2/NDF : 516249.0/15

Left Out: 1348.266+/-0.664 χ^2/NDF : 959.3/2

Right Out: 1315.999+/-0.349 χ^2/NDF : 326420.0/18

Left In: 1338.861+/-0.720 χ^2/NDF : 149.6/1

Left: 1343.945+/-0.488 χ^2/NDF : 1201.2/4

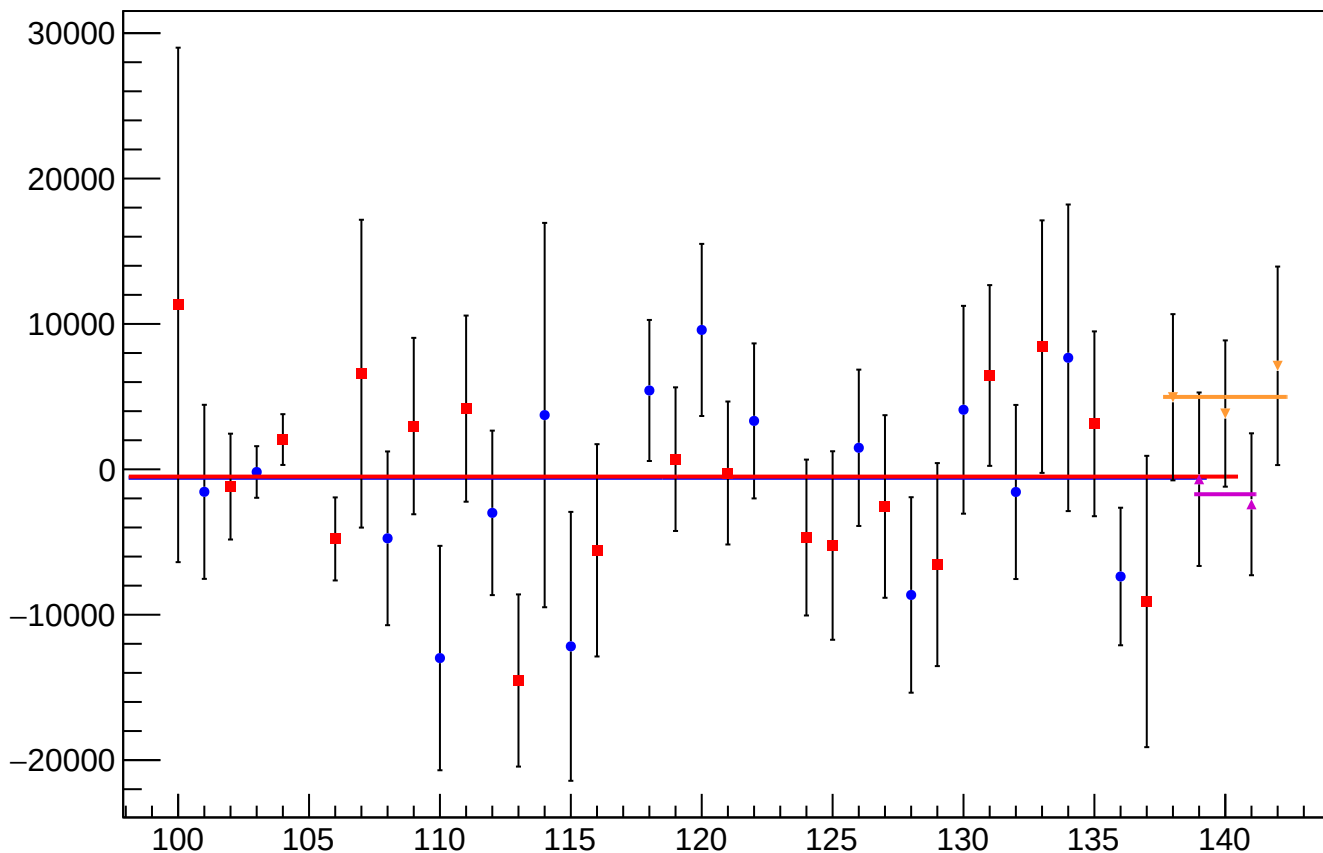
Right: 1311.551+/-0.247 χ^2/NDF : 842995.4/34

In: 1313.157+/-0.315 χ^2/NDF : 517976.3/17

Out: 1322.987+/-0.309 χ^2/NDF : 329231.9/21

All: 1318.169+/-0.220 χ^2/NDF : 847704.9/39

asym_atl_avg_atr_avg_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -581.790+/-1192.862 χ^2/NDF : 14.7/15

Left Out: 4980.771+/-3304.337 χ^2/NDF : 0.1/2

Right Out: -500.098+/-1055.434 χ^2/NDF : 17.7/18

Left In: -1712.622+/-3777.686 χ^2/NDF : 0.0/1

Left: 2079.458+/-2487.138 χ^2/NDF : 2.0/4

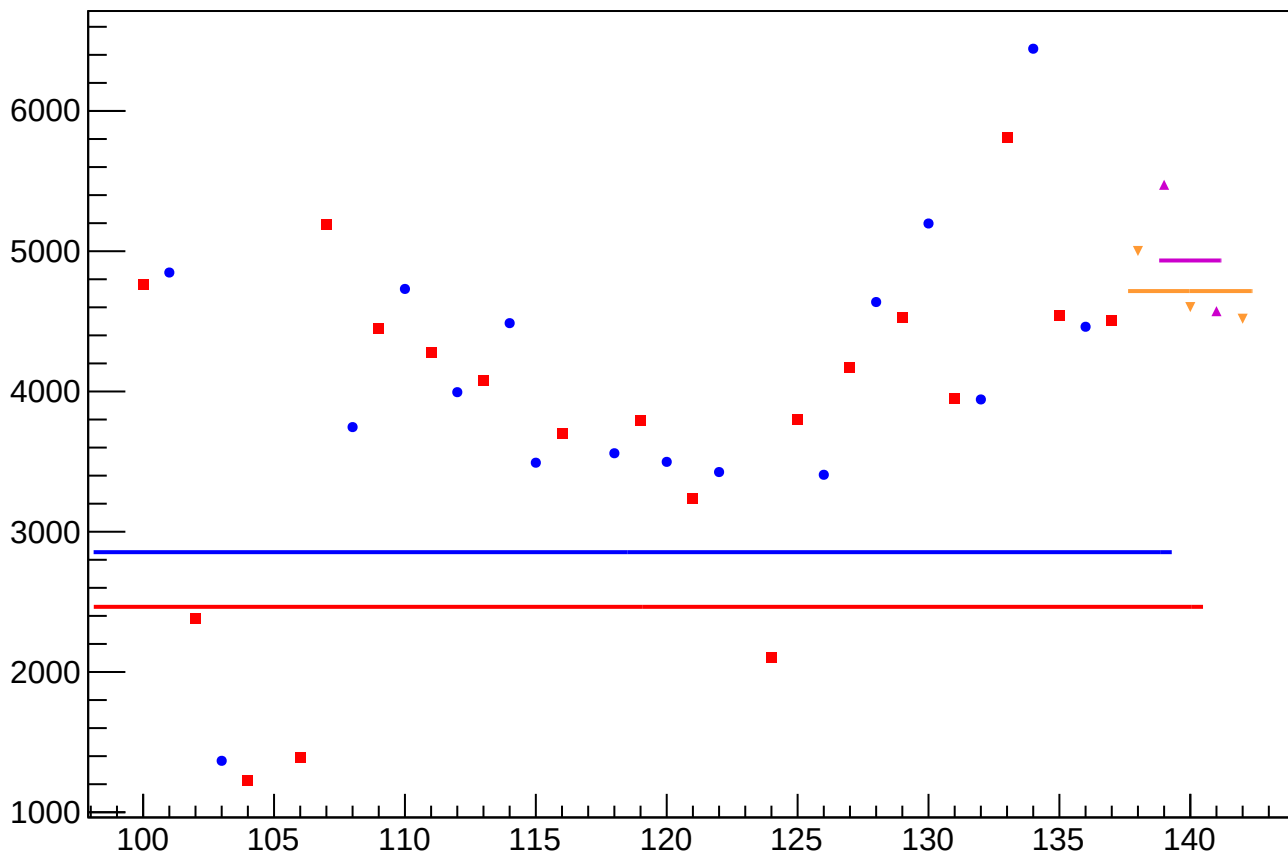
Right: -535.969+/-790.447 χ^2/NDF : 32.4/34

In: -684.320+/-1137.500 χ^2/NDF : 14.9/17

Out: 7.304+/-1005.393 χ^2/NDF : 20.3/21

All: -296.031+/-753.318 χ^2/NDF : 35.4/39

asym_atl_avg_atr_avg_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 2854.300+/-0.843 χ^2/NDF : 2904822.2/15

Left Out: 4715.824+/-2.337 χ^2/NDF : 7700.2/2

Right Out: 2464.593+/-0.746 χ^2/NDF : 3355947.0/18

Left In: 4933.926+/-2.671 χ^2/NDF : 27330.5/1

Left: 4810.362+/-1.759 χ^2/NDF : 38807.5/4

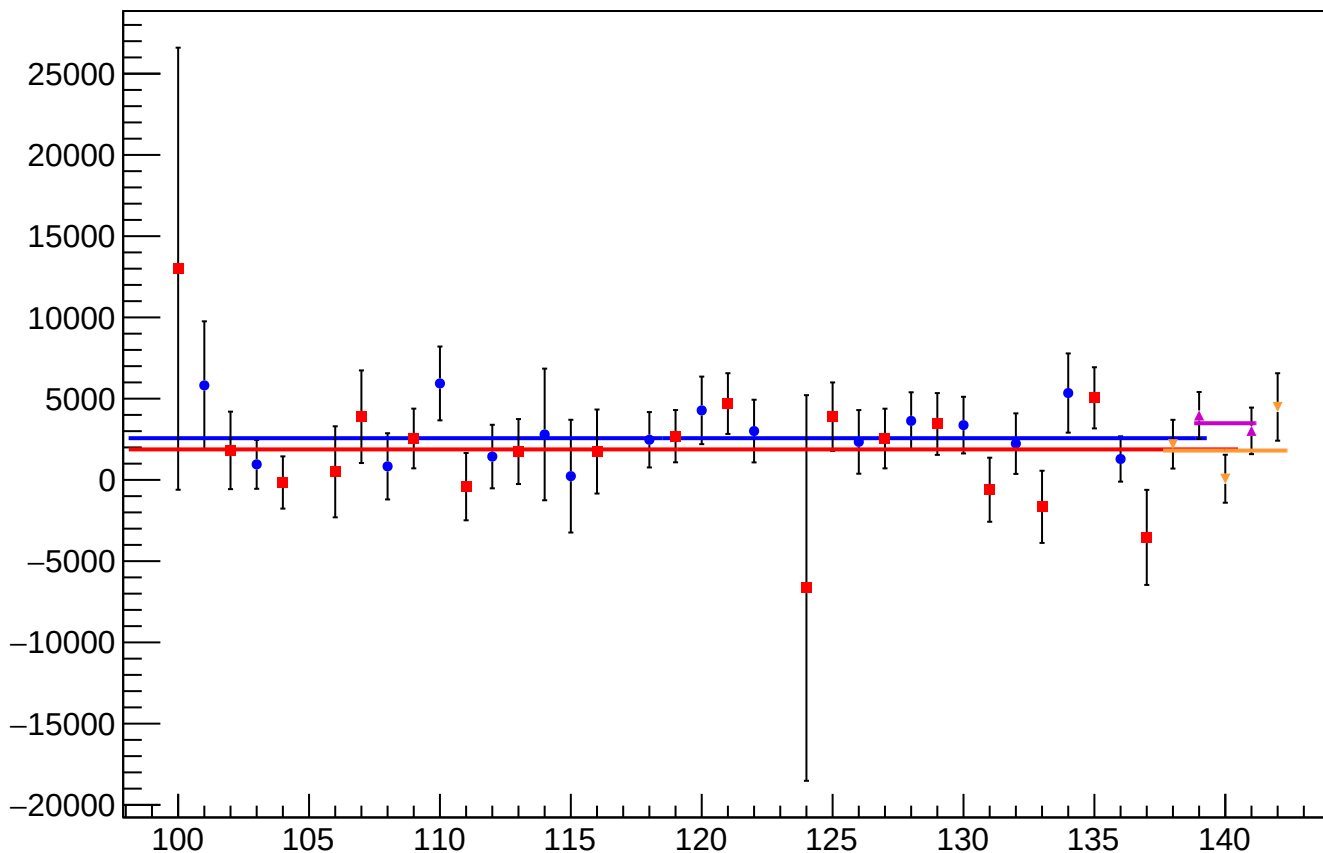
Right: 2635.714+/-0.559 χ^2/NDF : 6380500.9/34

In: 3042.854+/-0.804 χ^2/NDF : 3483304.8/17

Out: 2673.005+/-0.711 χ^2/NDF : 4206033.1/21

All: 2835.215+/-0.533 χ^2/NDF : 7808040.4/39

cor_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2567.180+/-495.364 χ^2/NDF : 9.0/15

Left Out: 1806.597+/-938.387 χ^2/NDF : 3.1/2

Right Out: 1877.774+/-494.719 χ^2/NDF : 19.5/18

Left In: 3486.936+/-1017.829 χ^2/NDF : 0.2/1

Left: 2578.640+/-689.917 χ^2/NDF : 4.8/4

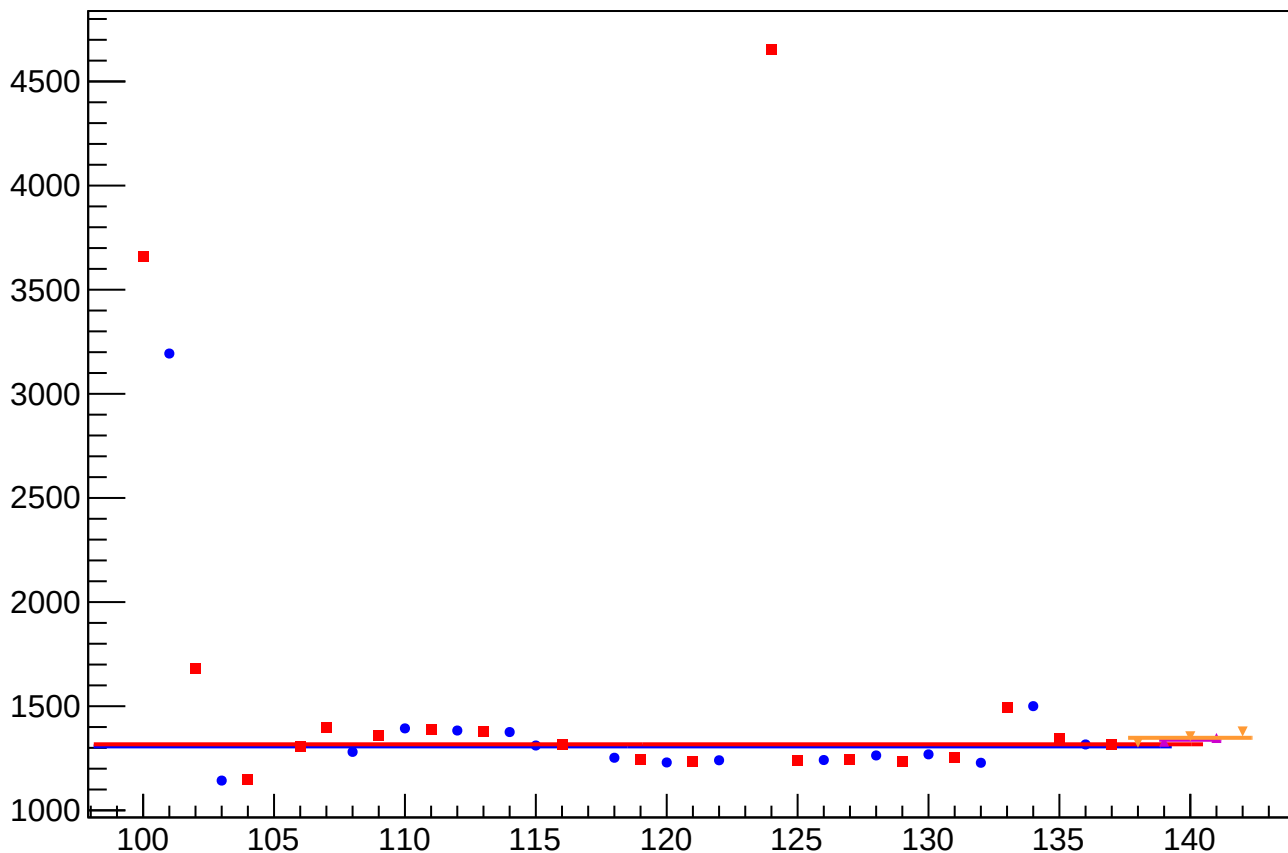
Right: 2222.028+/-350.047 χ^2/NDF : 29.6/34

In: 2743.317+/-445.414 χ^2/NDF : 9.9/17

Out: 1862.293+/-437.626 χ^2/NDF : 22.7/21

All: 2295.036+/-312.165 χ^2/NDF : 34.6/39

cor_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1307.068+/-0.350 χ^2/NDF : 516250.6/15

Left Out: 1348.266+/-0.664 χ^2/NDF :959.3/2

Right Out: 1317.128+/-0.349 χ^2/NDF : 325926.8/18

Left In: 1338.861+/-0.720 χ^2/NDF :149.6/1

Left: 1343.945+/-0.488 χ^2/NDF : 1201.2/4

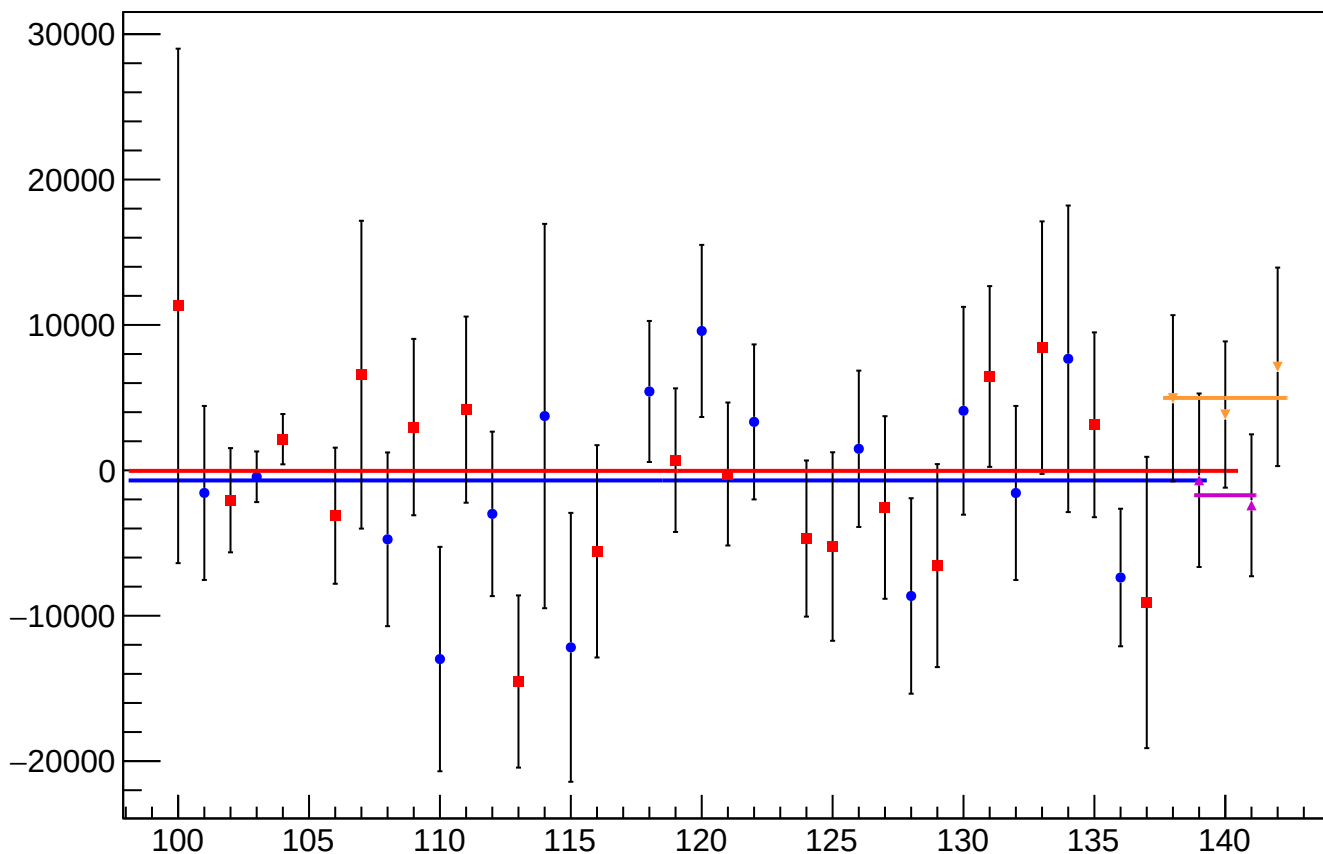
Right: 1312.114+/-0.247 χ^2/NDF : 842591.1/34

In: 1313.156+/-0.315 χ^2/NDF :517977.9/17

Out: 1323.880+/-0.309 χ^2/NDF :328610.7/21

All: 1318.621+/-0.221 χ^2/NDF : 847179.3/39

asym_atl_avg_atr_avg_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -695.249+/-1182.433 χ^2/NDF : 14.7/15

Left Out: 4980.803+/-3304.331 χ^2/NDF : 0.1/2

Right Out: -36.115+/-1098.207 χ^2/NDF : 15.9/18

Left In: -1712.696+/-3777.686 χ^2/NDF : 0.0/1

Left: 2079.450+/-2487.136 χ^2/NDF : 2.0/4

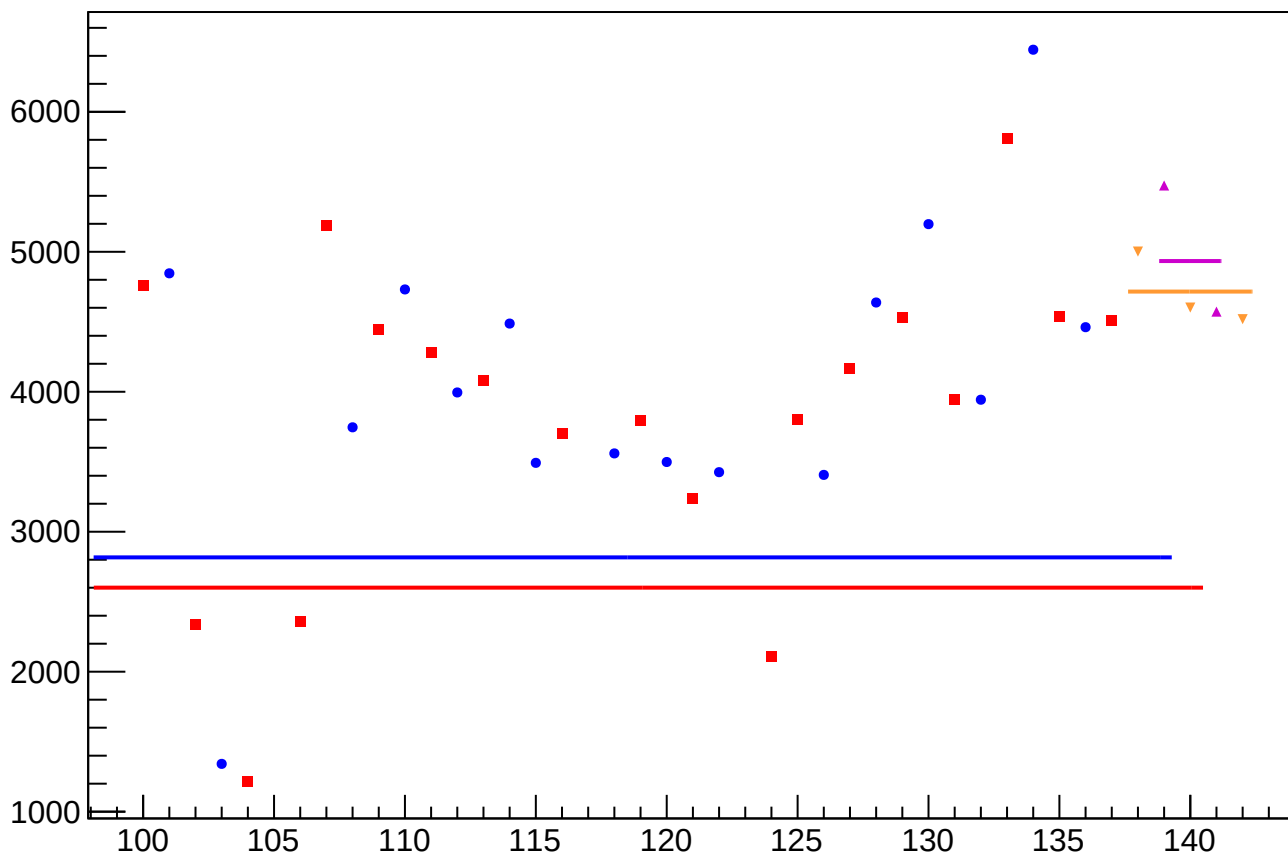
Right: -341.373+/-804.680 χ^2/NDF : 30.8/34

In: -786.036+/-1128.446 χ^2/NDF : 14.8/17

Out: 462.925+/-1042.156 χ^2/NDF : 18.2/21

All: -111.982+/-765.606 χ^2/NDF : 33.6/39

asym_atl_avg_atr_avg_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 2816.784+/-0.836 χ^2/NDF : 3007570.0/15

Left Out: 4715.815+/-2.337 χ^2/NDF : 7700.4/2

Right Out: 2600.524+/-0.777 χ^2/NDF : 3080771.9/18

Left In: 4933.925+/-2.671 χ^2/NDF : 27331.2/1

Left: 4810.356+/-1.759 χ^2/NDF : 38808.8/4

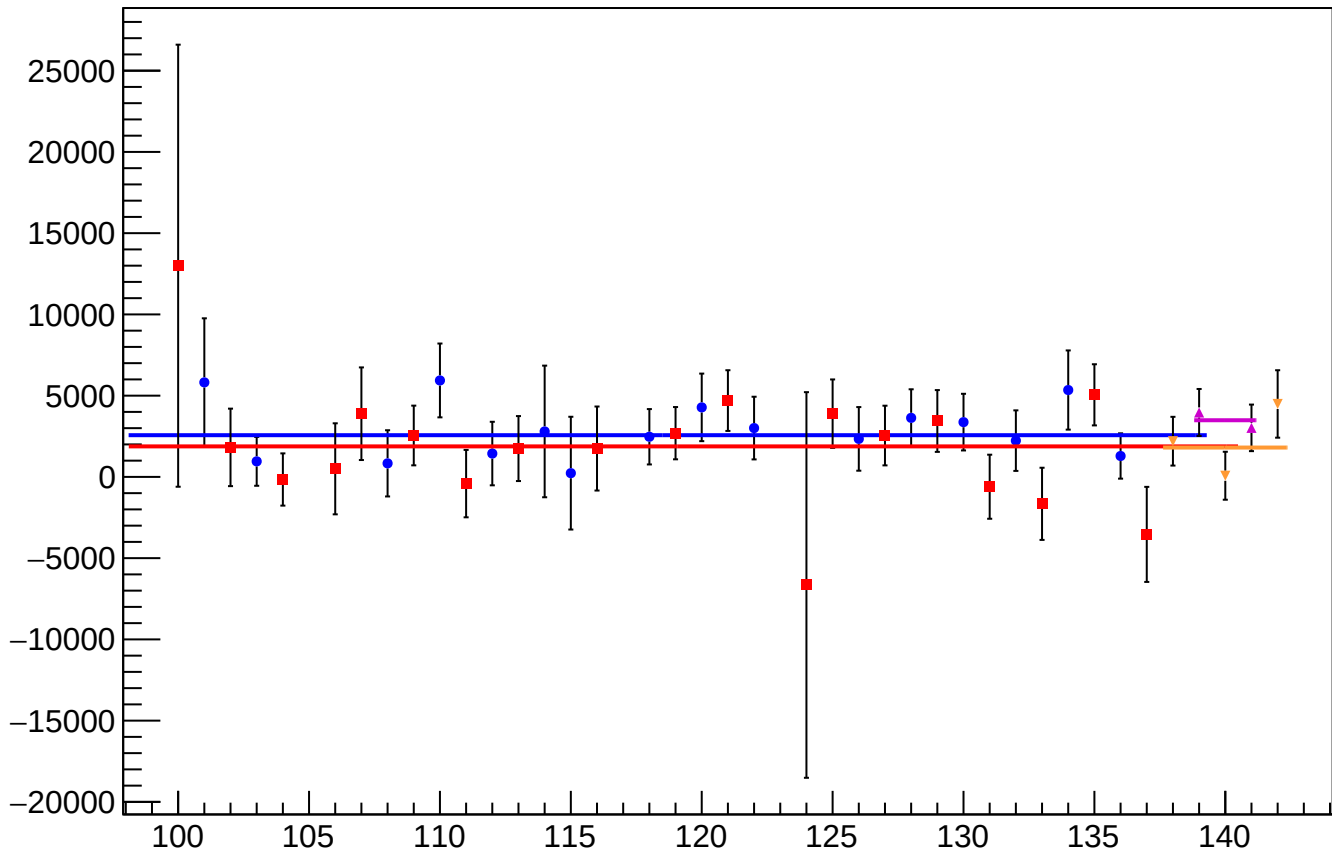
Right: 2700.678+/-0.569 χ^2/NDF : 6124259.3/34

In: 3005.696+/-0.798 χ^2/NDF : 3607020.6/17

Out: 2810.935+/-0.737 χ^2/NDF : 3826547.0/21

All: 2900.585+/-0.541 χ^2/NDF : 7465720.1/39

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2567.180+/-495.364 χ^2/NDF : 9.0/15

Left Out: 1806.597+/-938.387 χ^2/NDF : 3.1/2

Right Out: 1877.774+/-494.719 χ^2/NDF : 19.5/18

Left In: 3486.936+/-1017.829 χ^2/NDF : 0.2/1

Left: 2578.640+/-689.917 χ^2/NDF : 4.8/4

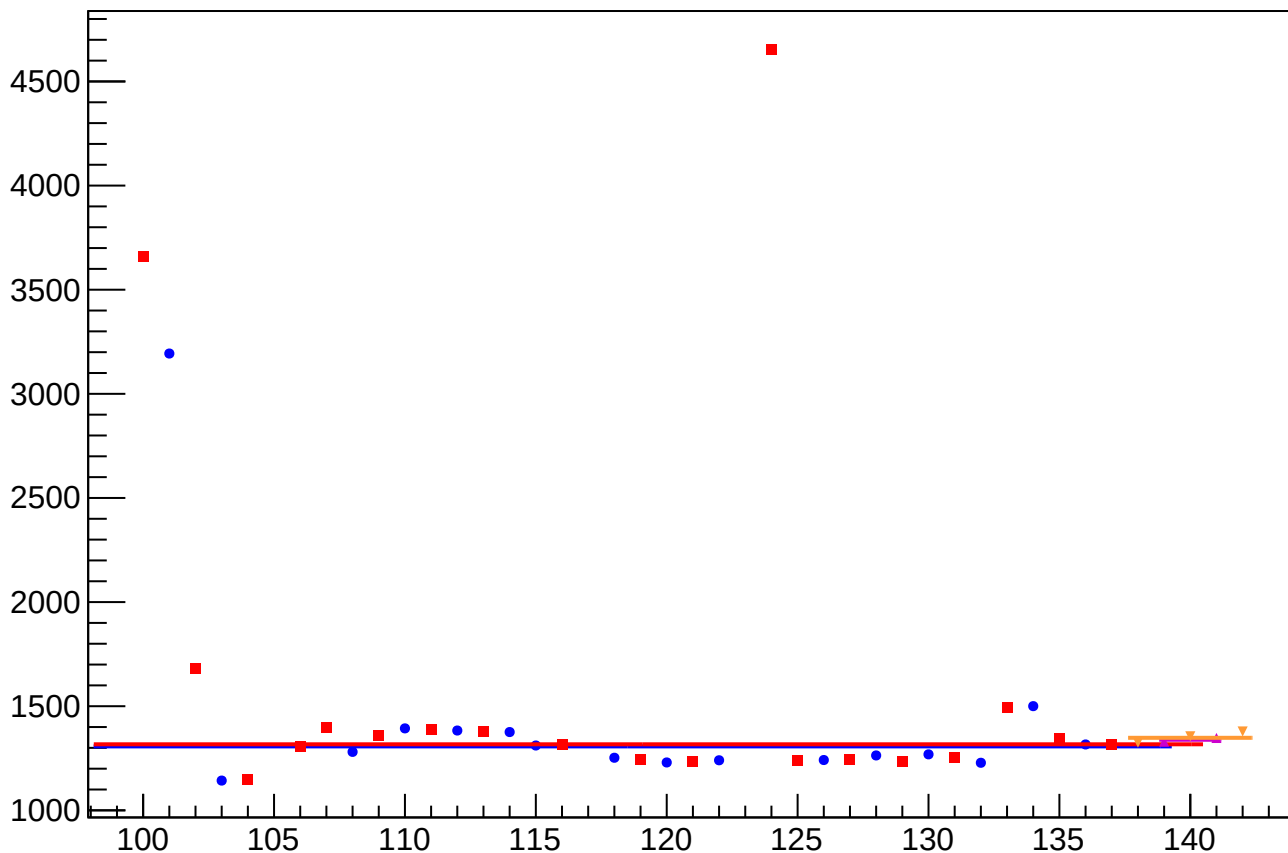
Right: 2222.028+/-350.047 χ^2/NDF : 29.6/34

In: 2743.317+/-445.414 χ^2/NDF : 9.9/17

Out: 1862.293+/-437.626 χ^2/NDF : 22.7/21

All: 2295.036+/-312.165 χ^2/NDF : 34.6/39

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1307.068+/-0.350 χ^2/NDF : 516250.6/15

Left Out: 1348.266+/-0.664 χ^2/NDF : 959.3/2

Right Out: 1317.128+/-0.349 χ^2/NDF : 325926.8/18

Left In: 1338.861+/-0.720 χ^2/NDF : 149.6/1

Left: 1343.945+/-0.488 χ^2/NDF : 1201.2/4

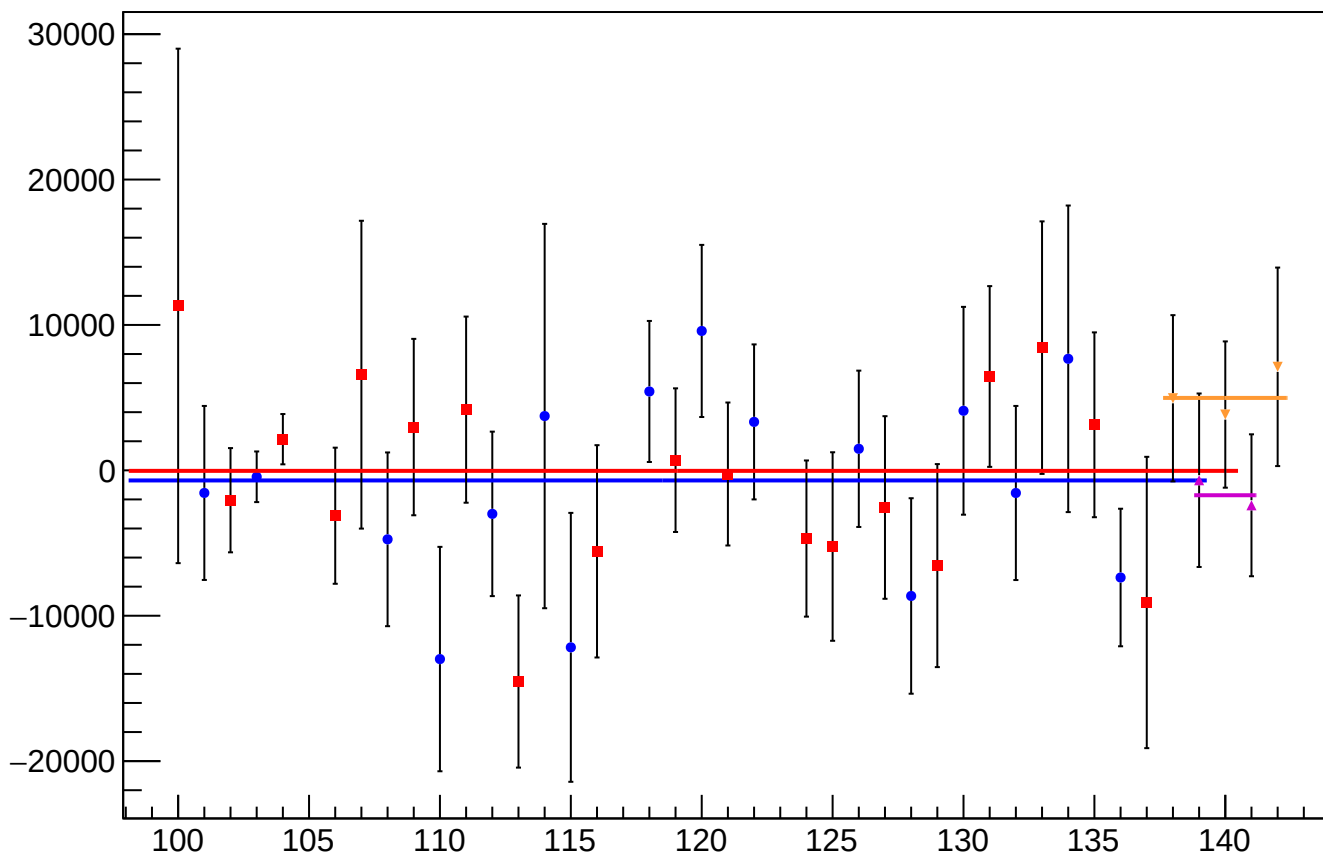
Right: 1312.114+/-0.247 χ^2/NDF : 842591.1/34

In: 1313.156+/-0.315 χ^2/NDF : 517977.9/17

Out: 1323.880+/-0.309 χ^2/NDF : 328610.7/21

All: 1318.621+/-0.221 χ^2/NDF : 847179.3/39

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -695.249+/-1182.433 χ^2/NDF : 14.7/15

Left Out: 4980.803+/-3304.331 χ^2/NDF : 0.1/2

Right Out: -36.115+/-1098.207 χ^2/NDF : 15.9/18

Left In: -1712.696+/-3777.686 χ^2/NDF : 0.0/1

Left: 2079.450+/-2487.136 χ^2/NDF : 2.0/4

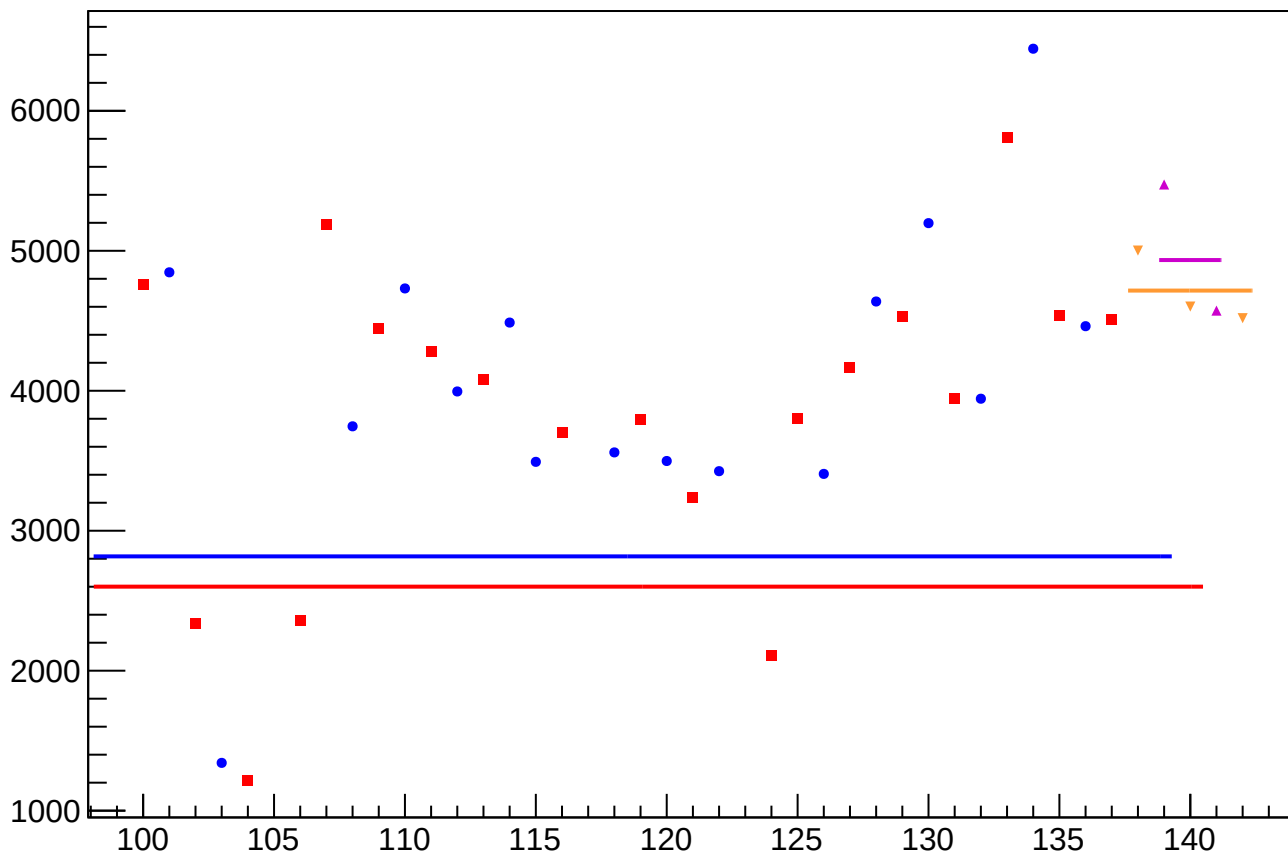
Right: -341.373+/-804.680 χ^2/NDF : 30.8/34

In: -786.036+/-1128.446 χ^2/NDF : 14.8/17

Out: 462.925+/-1042.156 χ^2/NDF : 18.2/21

All: -111.982+/-765.606 χ^2/NDF : 33.6/39

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2816.784+/-0.836 χ^2/NDF : 3007570.0/15

Left Out: 4715.815+/-2.337 χ^2/NDF : 7700.4/2

Right Out: 2600.524+/-0.777 χ^2/NDF : 3080771.9/18

Left In: 4933.925+/-2.671 χ^2/NDF : 27331.2/1

Left: 4810.356+/-1.759 χ^2/NDF : 38808.8/4

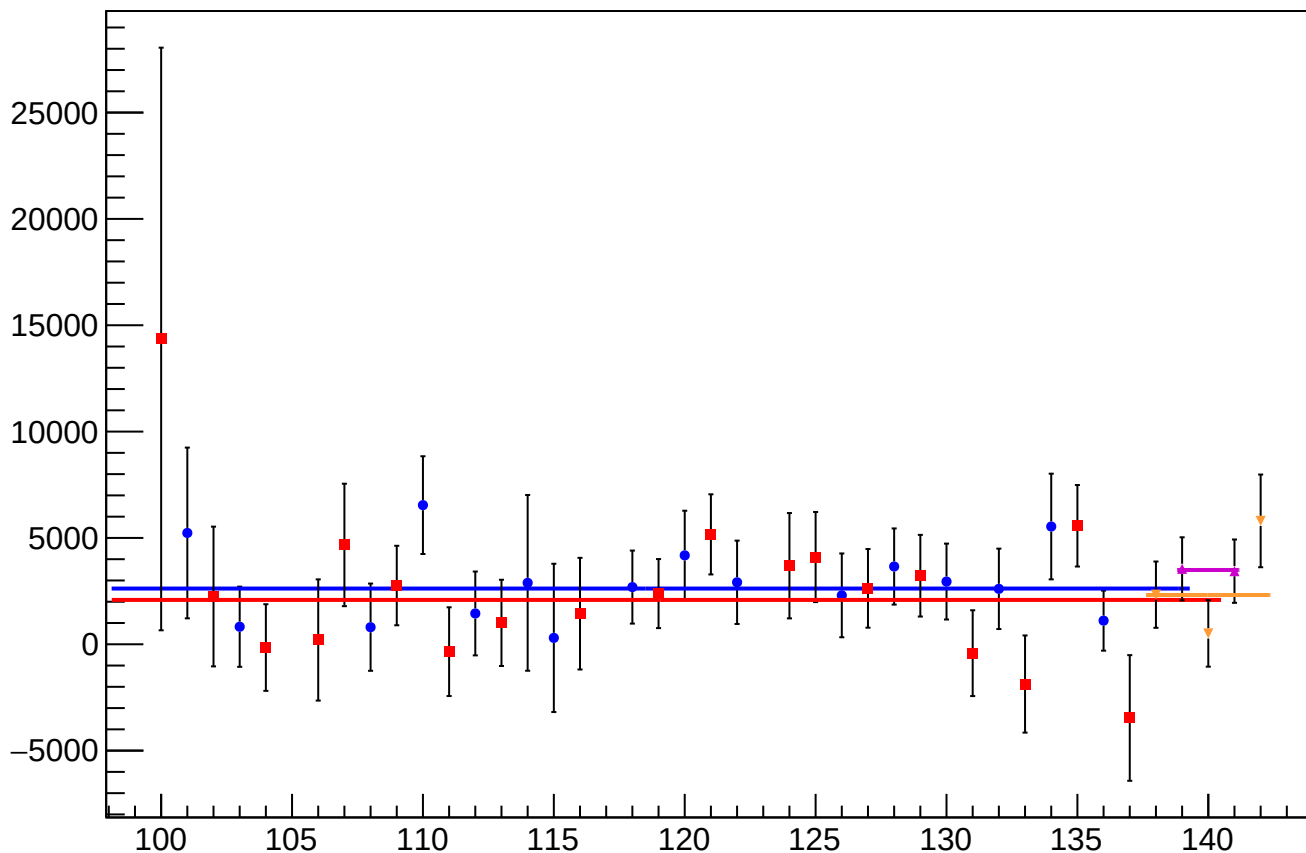
Right: 2700.678+/-0.569 χ^2/NDF : 6124259.3/34

In: 3005.696+/-0.798 χ^2/NDF : 3607020.6/17

Out: 2810.935+/-0.737 χ^2/NDF : 3826547.0/21

All: 2900.585+/-0.541 χ^2/NDF : 7465720.1/39

dit_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2620.535 $\pm$ 511.510 χ^2 /NDF: 9.3/15

Left Out: 2316.282 $\pm$ 984.299 χ^2 /NDF:3.9/2

Right Out: 2085.606 $\pm$ 504.873 χ^2 /NDF: 20.9/18

Left In: 3492.907 $\pm$ 1050.422 χ^2 /NDF:0.0/1

Left: 2866.398 $\pm$ 718.244 χ^2 /NDF: 4.6/4

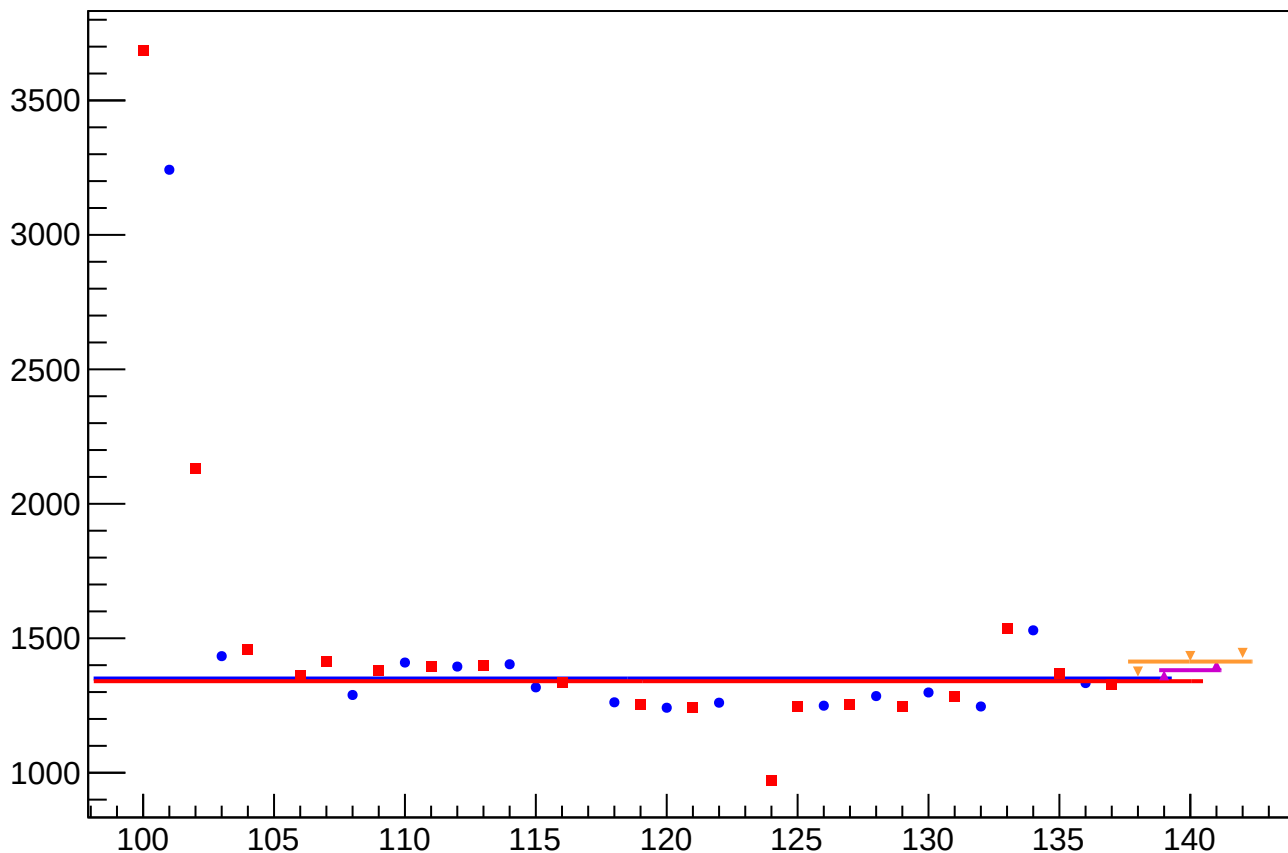
Right: 2349.577 $\pm$ 359.323 χ^2 /NDF: 30.8/34

In: 2787.747 $\pm$ 459.883 χ^2 /NDF:9.9/17

Out: 2133.654 $\pm$ 449.226 χ^2 /NDF:24.9/21

All: 2453.034 $\pm$ 321.352 χ^2 /NDF: 35.8/39

dit_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1350.369+/-0.362 χ^2/NDF : 494051.1/15

Left Out: 1413.422+/-0.696 χ^2/NDF :1922.9/2

Right Out: 1340.429+/-0.357 χ^2/NDF : 272183.5/18

Left In: 1381.333+/-0.743 χ^2/NDF :664.4/1

Left: 1398.419+/-0.508 χ^2/NDF : 3581.0/4

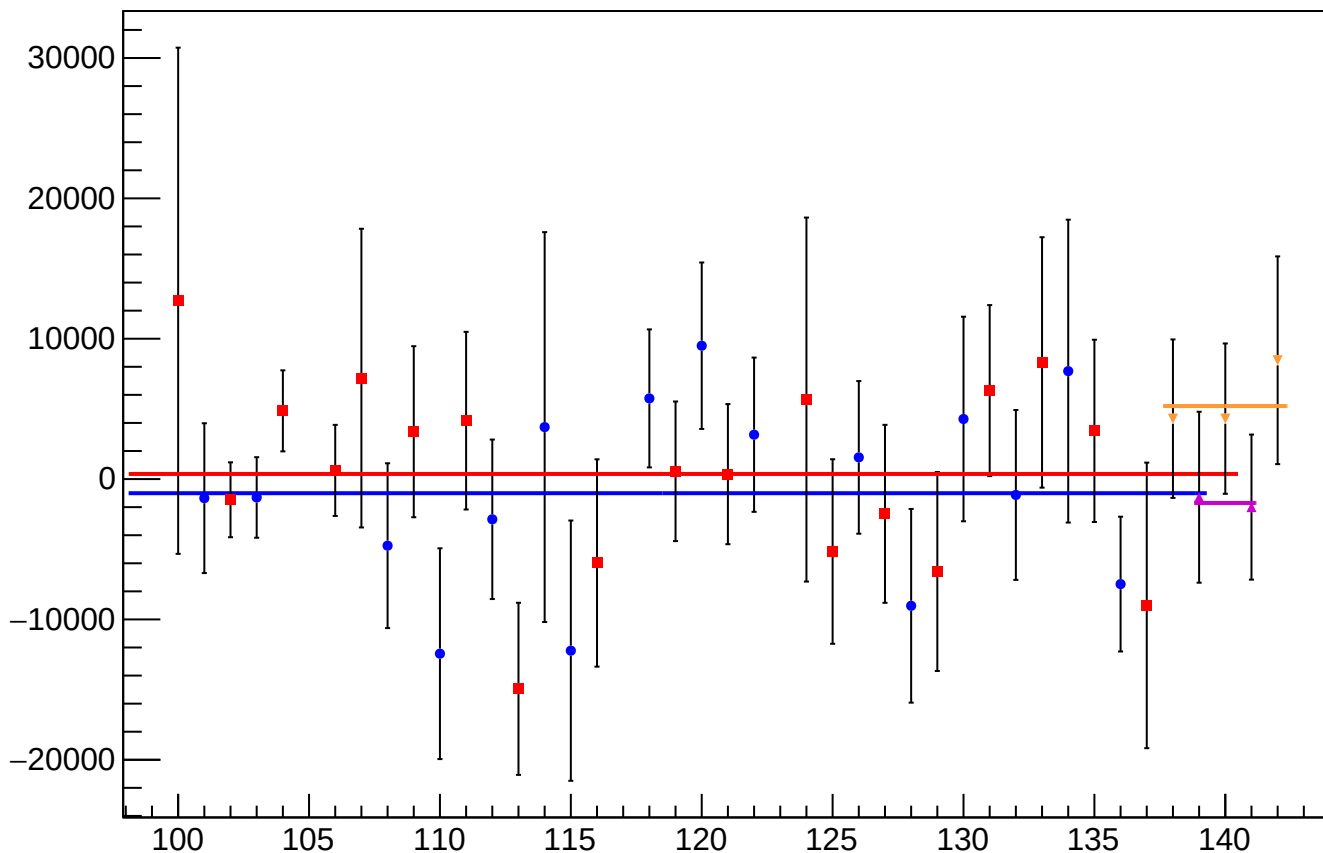
Right: 1345.331+/-0.254 χ^2/NDF : 766617.4/34

In: 1356.304+/-0.325 χ^2/NDF :496120.2/17

Out: 1355.618+/-0.317 χ^2/NDF :282816.4/21

All: 1355.953+/-0.227 χ^2/NDF : 778938.9/39

asym_atl_avg_atr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1006.752 ± 1404.458 $\chi^2/\text{NDF}: 14.6/15$

Left Out: 5203.885 ± 3440.305 $\chi^2/\text{NDF}: 0.2/2$

Right Out: 364.493 ± 1202.498 $\chi^2/\text{NDF}: 16.2/18$

Left In: -1701.984 ± 3940.607 $\chi^2/\text{NDF}: 0.0/1$

Left: 2216.912 ± 2591.610 $\chi^2/\text{NDF}: 2.0/4$

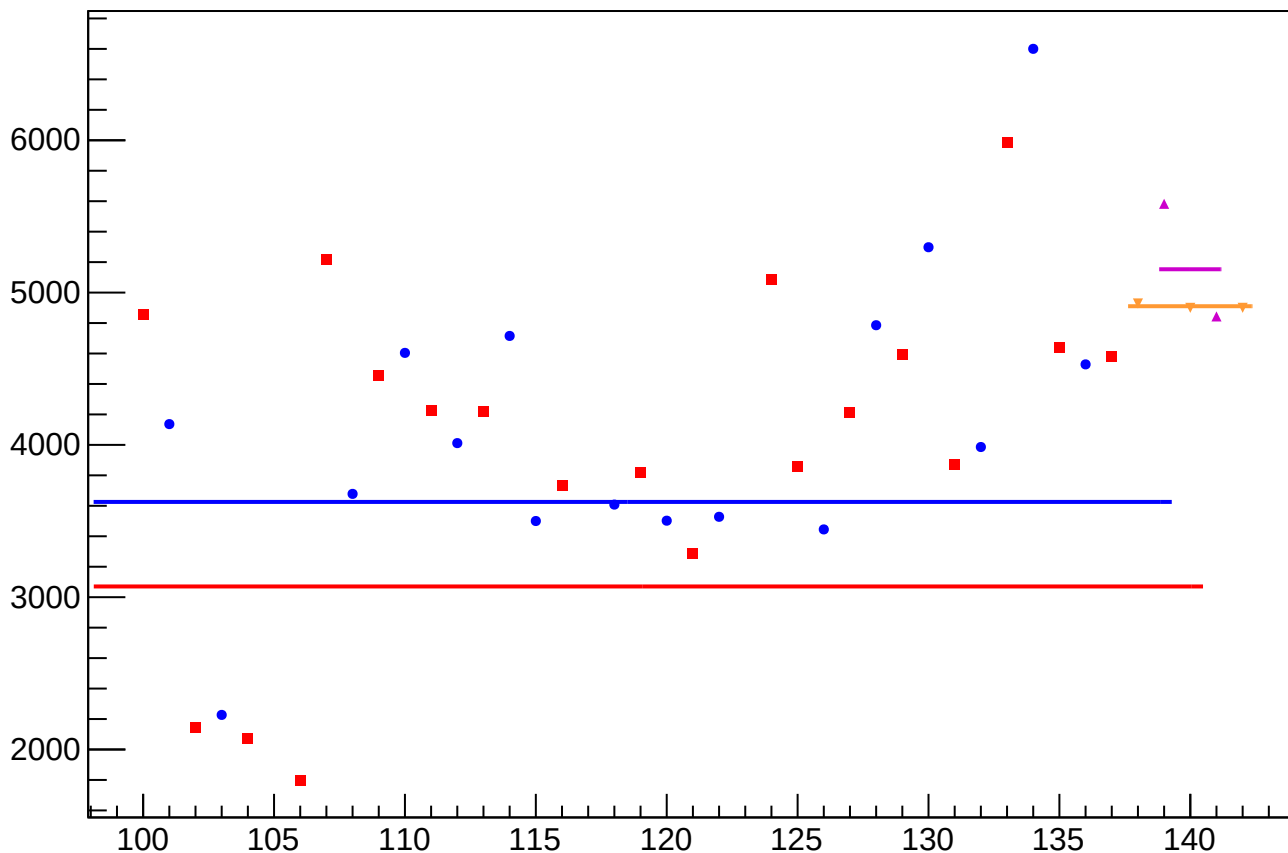
Right: -215.533 ± 913.430 $\chi^2/\text{NDF}: 31.4/34$

In: -1085.110 ± 1322.945 $\chi^2/\text{NDF}: 14.6/17$

Out: 891.366 ± 1135.153 $\chi^2/\text{NDF}: 18.2/21$

All: 53.249 ± 861.486 $\chi^2/\text{NDF}: 34.1/39$

asym_atl_avg_atr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 3625.512+/-0.993 χ^2/NDF : 944905.4/15

Left Out: 4910.480+/-2.433 χ^2/NDF :32.7/2

Right Out: 3070.442+/-0.850 χ^2/NDF : 1838659.1/18

Left In: 5153.116+/-2.786 χ^2/NDF :17142.5/1

Left: 5015.427+/-1.833 χ^2/NDF : 21478.1/4

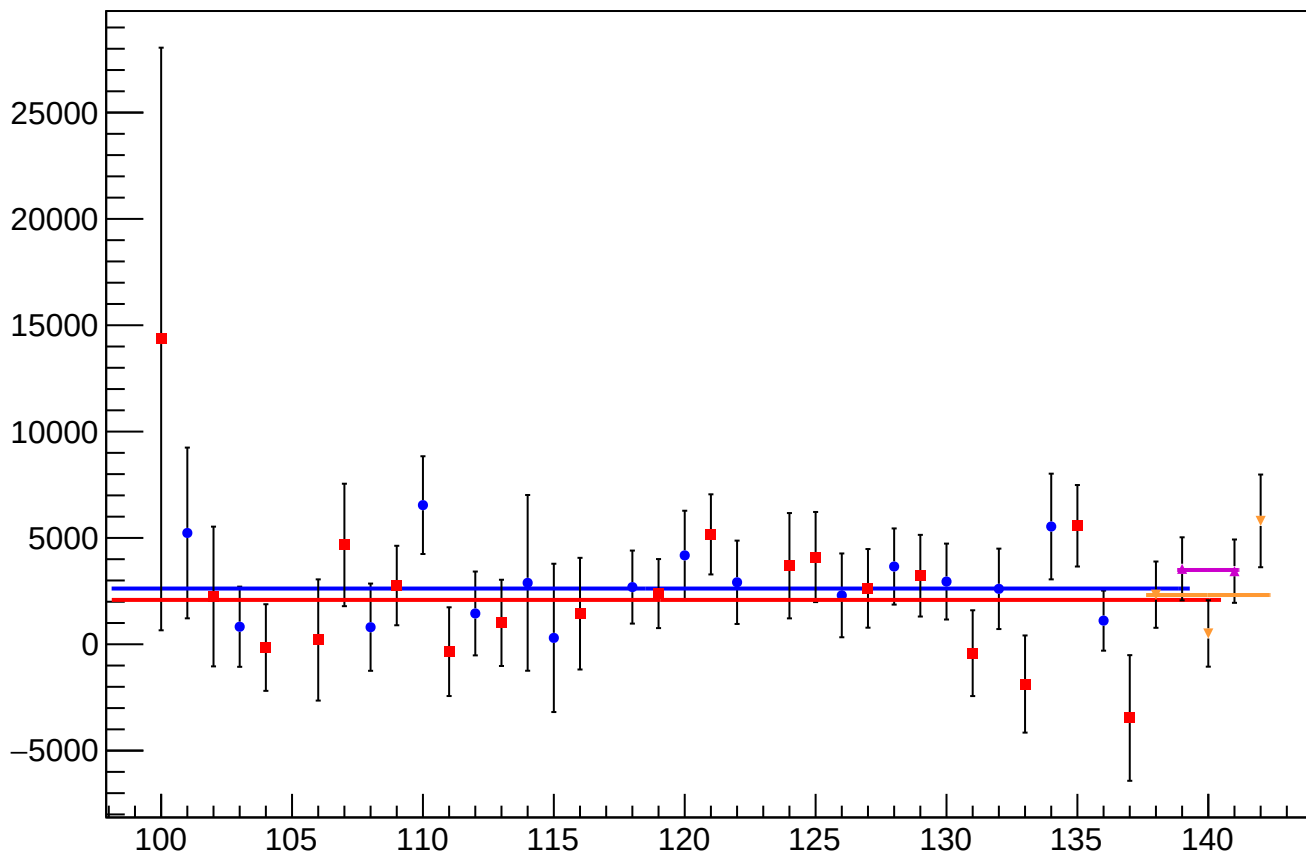
Right: 3305.233+/-0.646 χ^2/NDF : 2963820.1/34

In: 3797.686+/-0.935 χ^2/NDF :1228728.5/17

Out: 3270.770+/-0.803 χ^2/NDF :2348527.3/21

All: 3494.207+/-0.609 χ^2/NDF : 3759988.4/39

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2620.535+/-511.510 χ^2/NDF : 9.3/15

Left Out: 2316.293+/-984.300 χ^2/NDF :3.9/2

Right Out: 2085.608+/-504.873 χ^2/NDF : 20.9/18

Left In: 3492.892+/-1050.423 χ^2/NDF :0.0/1

Left: 2866.397+/-718.244 χ^2/NDF : 4.6/4

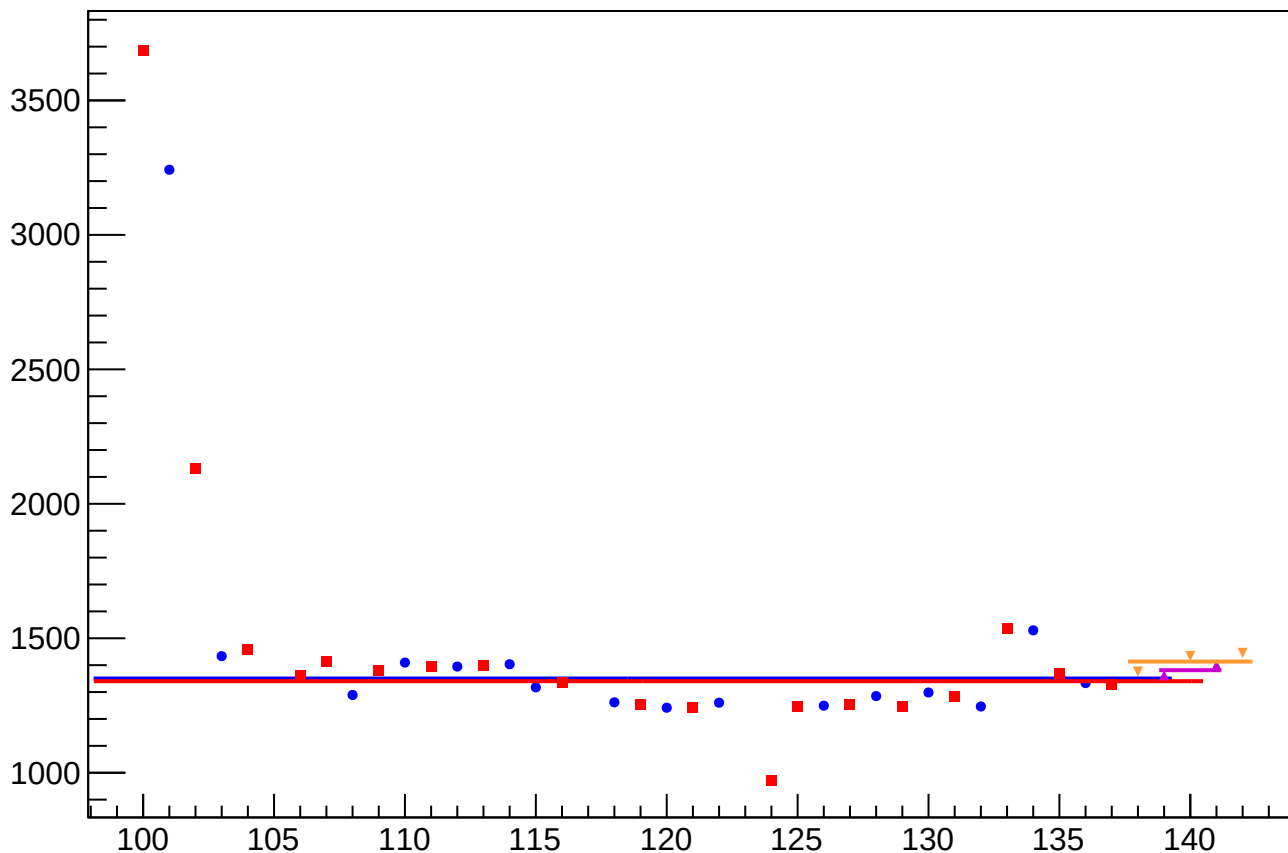
Right: 2349.579+/-359.323 χ^2/NDF : 30.8/34

In: 2787.744+/-459.883 χ^2/NDF :9.9/17

Out: 2133.658+/-449.225 χ^2/NDF :24.9/21

All: 2453.035+/-321.352 χ^2/NDF : 35.8/39

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1350.369+/-0.362 χ^2/NDF : 494051.2/15

Left Out: 1413.423+/-0.696 χ^2/NDF :1922.9/2

Right Out: 1340.428+/-0.357 χ^2/NDF : 272182.5/18

Left In: 1381.334+/-0.743 χ^2/NDF :664.3/1

Left: 1398.420+/-0.508 χ^2/NDF : 3581.0/4

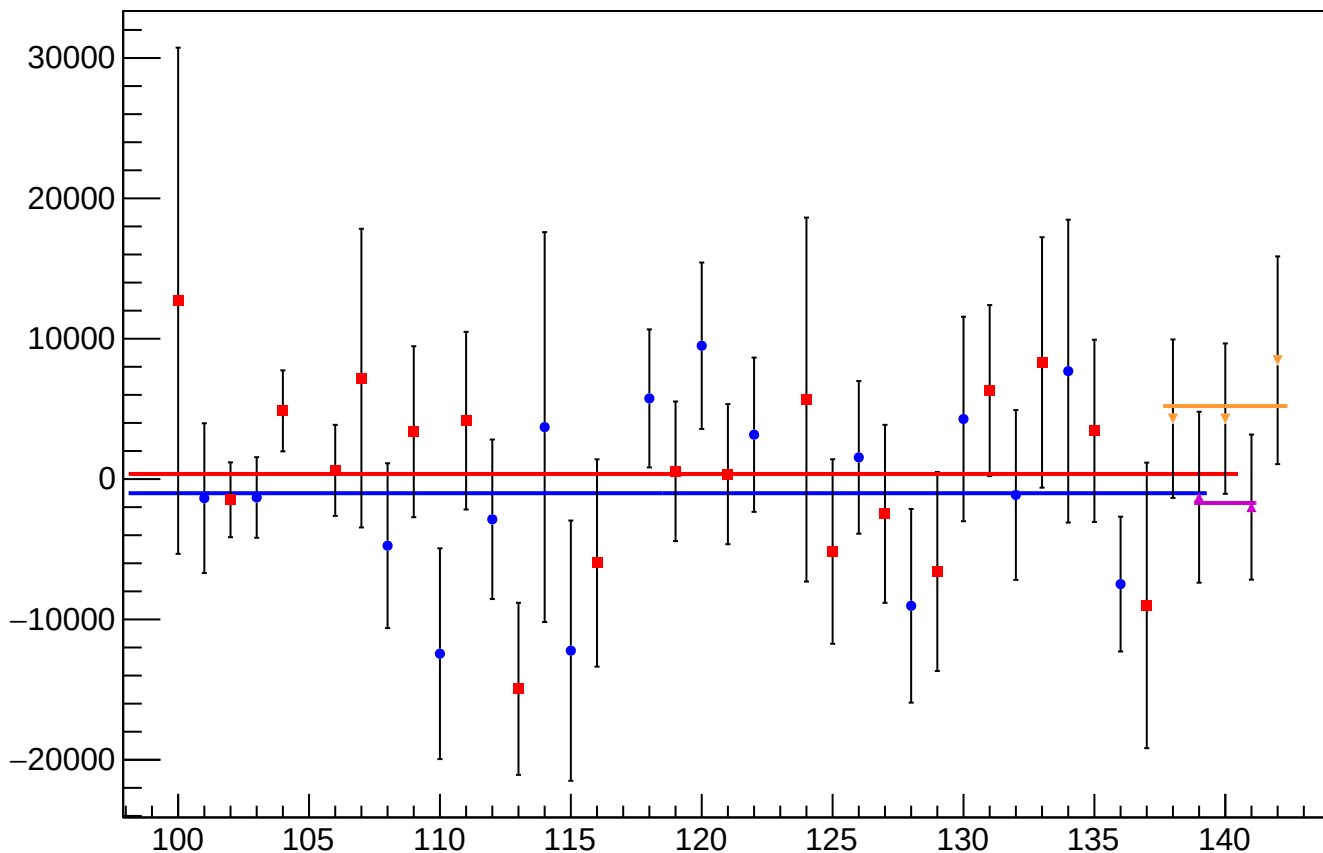
Right: 1345.330+/-0.254 χ^2/NDF : 766616.6/34

In: 1356.304+/-0.325 χ^2/NDF :496120.4/17

Out: 1355.617+/-0.317 χ^2/NDF :282815.8/21

All: 1355.952+/-0.227 χ^2/NDF : 778938.5/39

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1006.742+/-1404.455 χ^2/NDF : 14.6/15

Left Out: 5203.901+/-3440.310 χ^2/NDF : 0.2/2

Right Out: 364.495+/-1202.495 χ^2/NDF : 16.2/18

Left In: -1701.996+/-3940.613 χ^2/NDF : 0.0/1

Left: 2216.916+/-2591.614 χ^2/NDF : 2.0/4

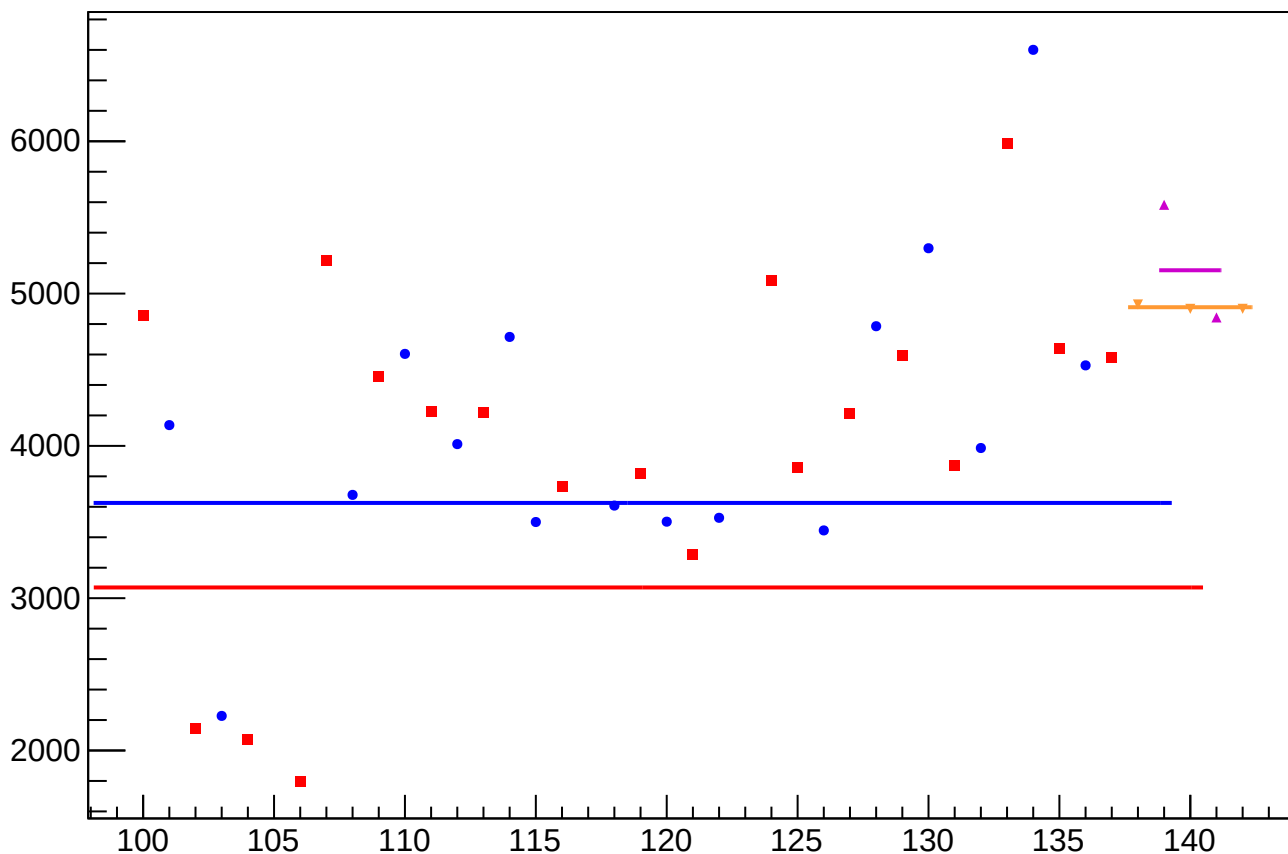
Right: -215.528+/-913.428 χ^2/NDF : 31.4/34

In: -1085.103+/-1322.943 χ^2/NDF : 14.6/17

Out: 891.365+/-1135.151 χ^2/NDF : 18.2/21

All: 53.252+/-861.485 χ^2/NDF : 34.1/39

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3625.503+/-0.993 χ^2/NDF : 944907.6/15

Left Out: 4910.488+/-2.433 χ^2/NDF : 32.7/2

Right Out: 3070.434+/-0.850 χ^2/NDF : 1838662.0/18

Left In: 5153.123+/-2.786 χ^2/NDF : 17143.0/1

Left: 5015.434+/-1.833 χ^2/NDF : 21478.5/4

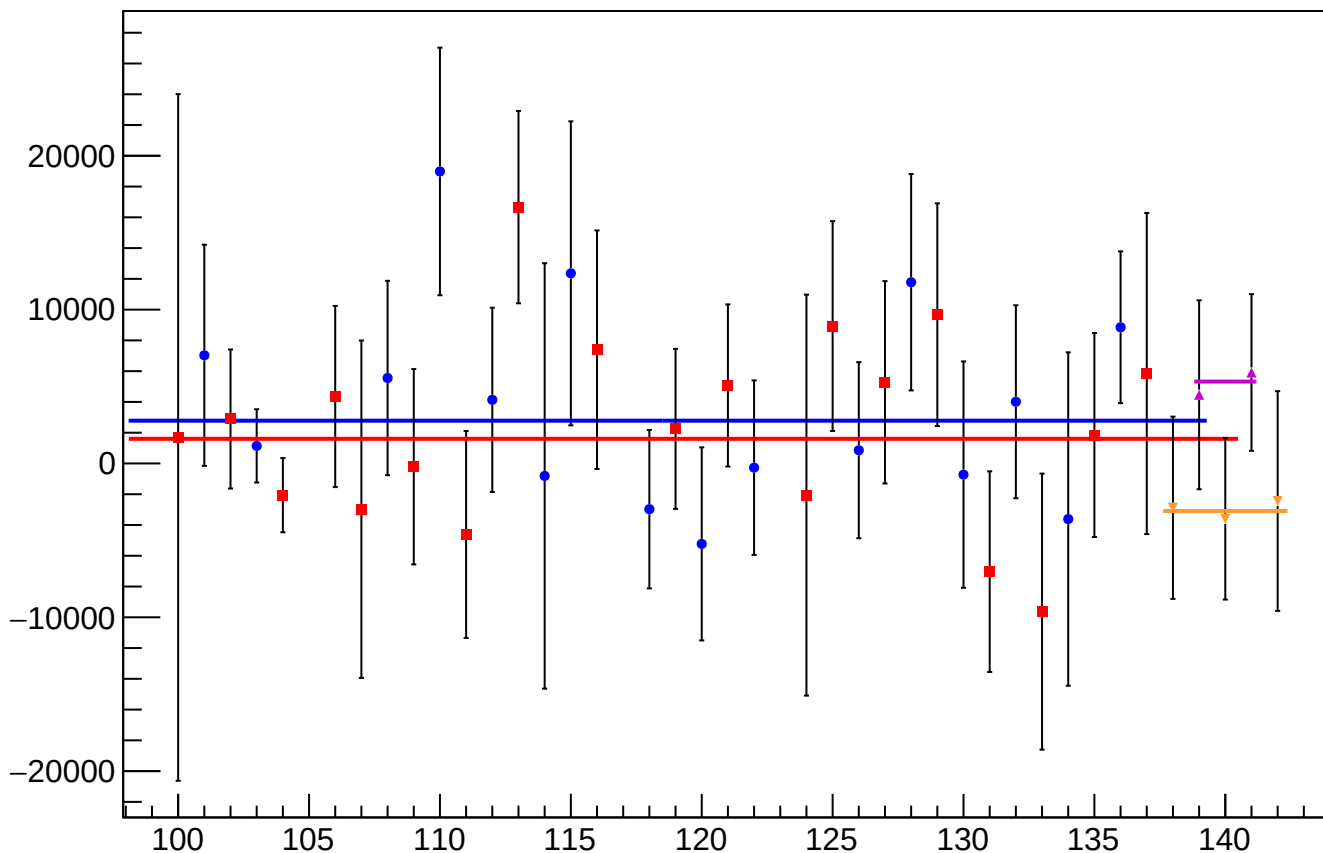
Right: 3305.224+/-0.646 χ^2/NDF : 2963825.9/34

In: 3797.678+/-0.935 χ^2/NDF : 1228736.2/17

Out: 3270.762+/-0.803 χ^2/NDF : 2348538.2/21

All: 3494.199+/-0.609 χ^2/NDF : 3760007.7/39

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2780.878+/-1389.439 χ^2/NDF : 13.2/15

Left Out: -3089.213+/-3441.879 χ^2/NDF : 0.0/2

Right Out: 1602.626+/-1337.018 χ^2/NDF : 16.8/18

Left In: 5322.907+/-3920.039 χ^2/NDF : 0.0/1

Left: 572.771+/-2586.401 χ^2/NDF : 2.7/4

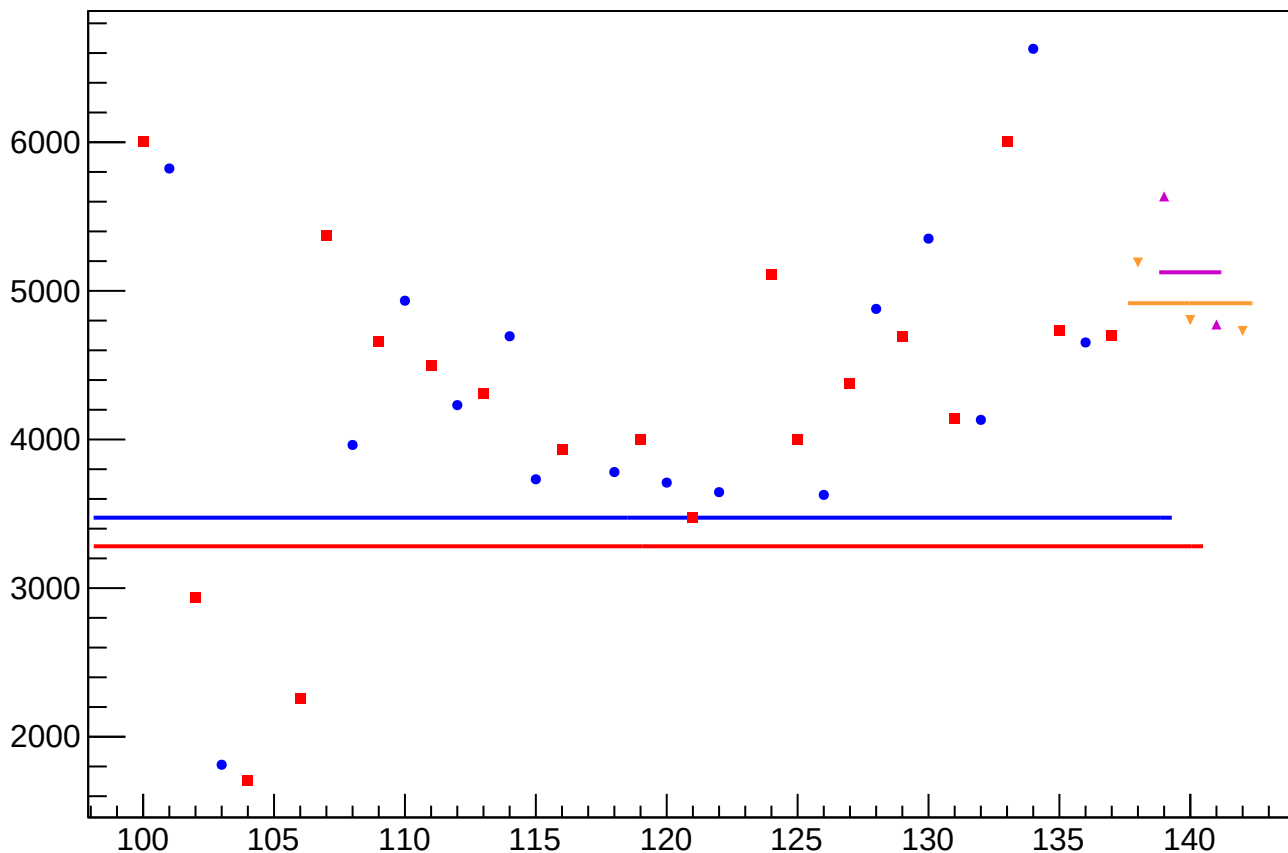
Right: 2169.106+/-963.414 χ^2/NDF : 30.3/34

In: 3064.593+/-1309.609 χ^2/NDF : 13.6/17

Out: 987.464+/-1246.289 χ^2/NDF : 18.4/21

All: 1974.602+/-902.815 χ^2/NDF : 33.3/39

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3473.898+/-0.982 χ^2/NDF : 1843964.2/15

Left Out: 4916.858+/-2.434 χ^2/NDF : 6575.4/2

Right Out: 3281.478+/-0.932 χ^2/NDF : 1875493.9/18

Left In: 5124.951+/-2.772 χ^2/NDF : 23322.9/1

Left: 5007.446+/-1.829 χ^2/NDF : 33080.7/4

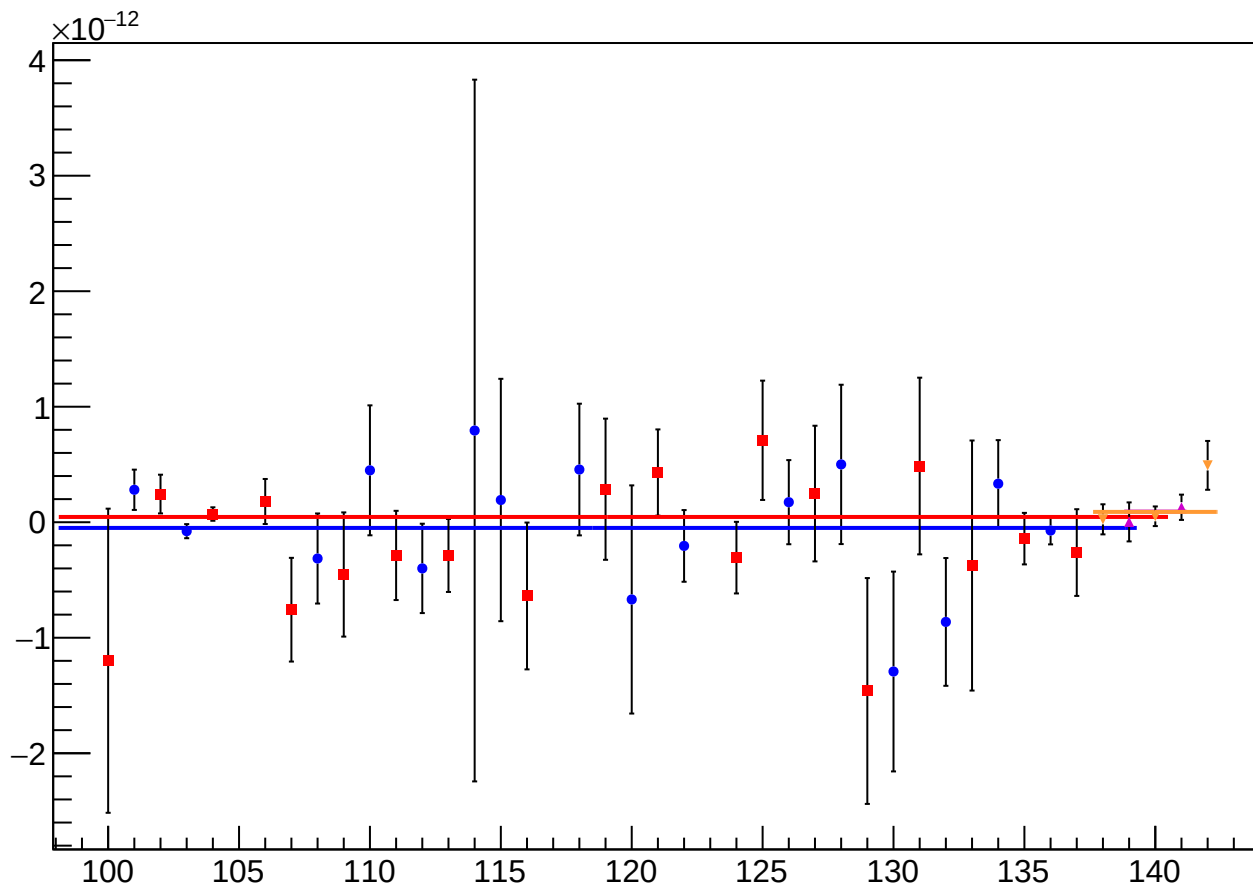
Right: 3372.669+/-0.676 χ^2/NDF : 3739637.8/34

In: 3658.169+/-0.926 χ^2/NDF : 2182479.6/17

Out: 3490.822+/-0.871 χ^2/NDF : 2275790.0/21

All: 3569.354+/-0.634 χ^2/NDF : 4475601.9/39

asym_atl_avg_atr_avg_avg_reg_vs_Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 13.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 4.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.4/1

Left: 0.000+/-0.000 χ^2/NDF : 4.5/4

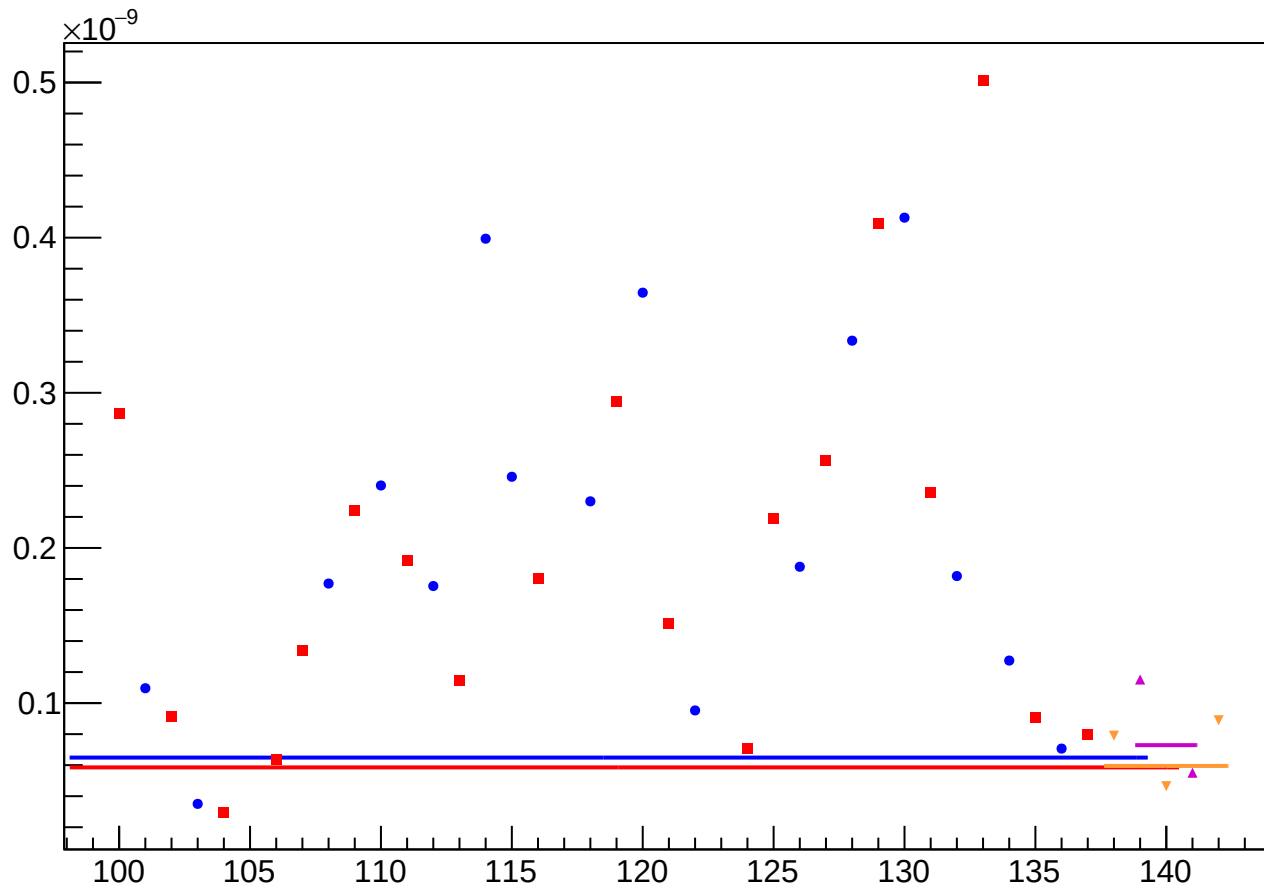
Right: -0.000+/-0.000 χ^2/NDF : 34.2/34

In: -0.000+/-0.000 χ^2/NDF : 16.0/17

Out: 0.000+/-0.000 χ^2/NDF : 22.9/21

All: 0.000+/-0.000 χ^2/NDF : 40.7/39

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2592912.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :130561.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2855105.2/18

Left In: 0.000+/-0.000 χ^2/NDF :178274.0/1

Left: 0.000+/-0.000 χ^2/NDF : 336495.3/4

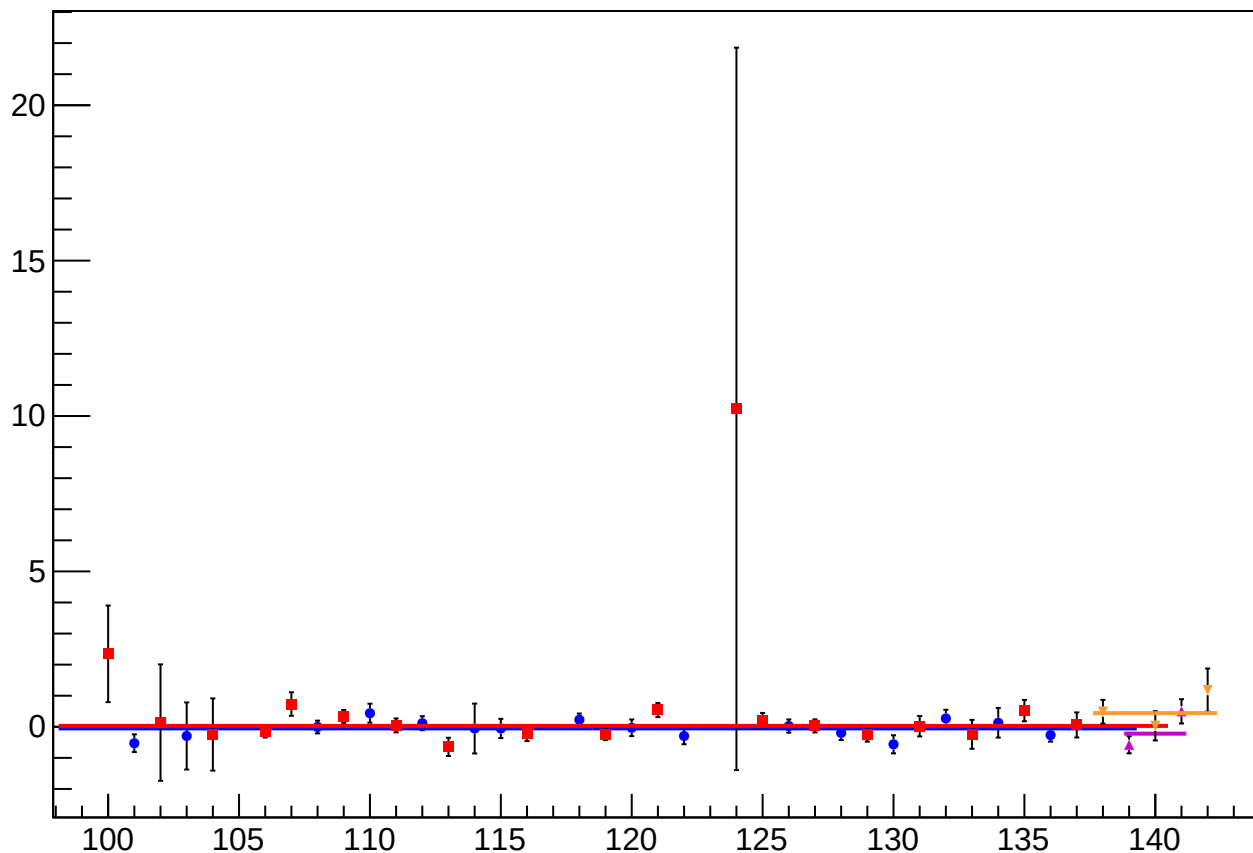
Right: 0.000+/-0.000 χ^2/NDF : 5465312.1/34

In: 0.000+/-0.000 χ^2/NDF :2783115.6/17

Out: 0.000+/-0.000 χ^2/NDF :2985924.8/21

All: 0.000+/-0.000 χ^2/NDF : 5804950.4/39

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.051 ± 0.067 $\chi^2/\text{NDF}: 14.9/15$

Left Out: 0.440 ± 0.273 $\chi^2/\text{NDF}: 1.9/2$

Right Out: 0.029 ± 0.064 $\chi^2/\text{NDF}: 27.5/18$

Left In: -0.221 ± 0.225 $\chi^2/\text{NDF}: 5.1/1$

Left: 0.046 ± 0.174 $\chi^2/\text{NDF}: 10.5/4$

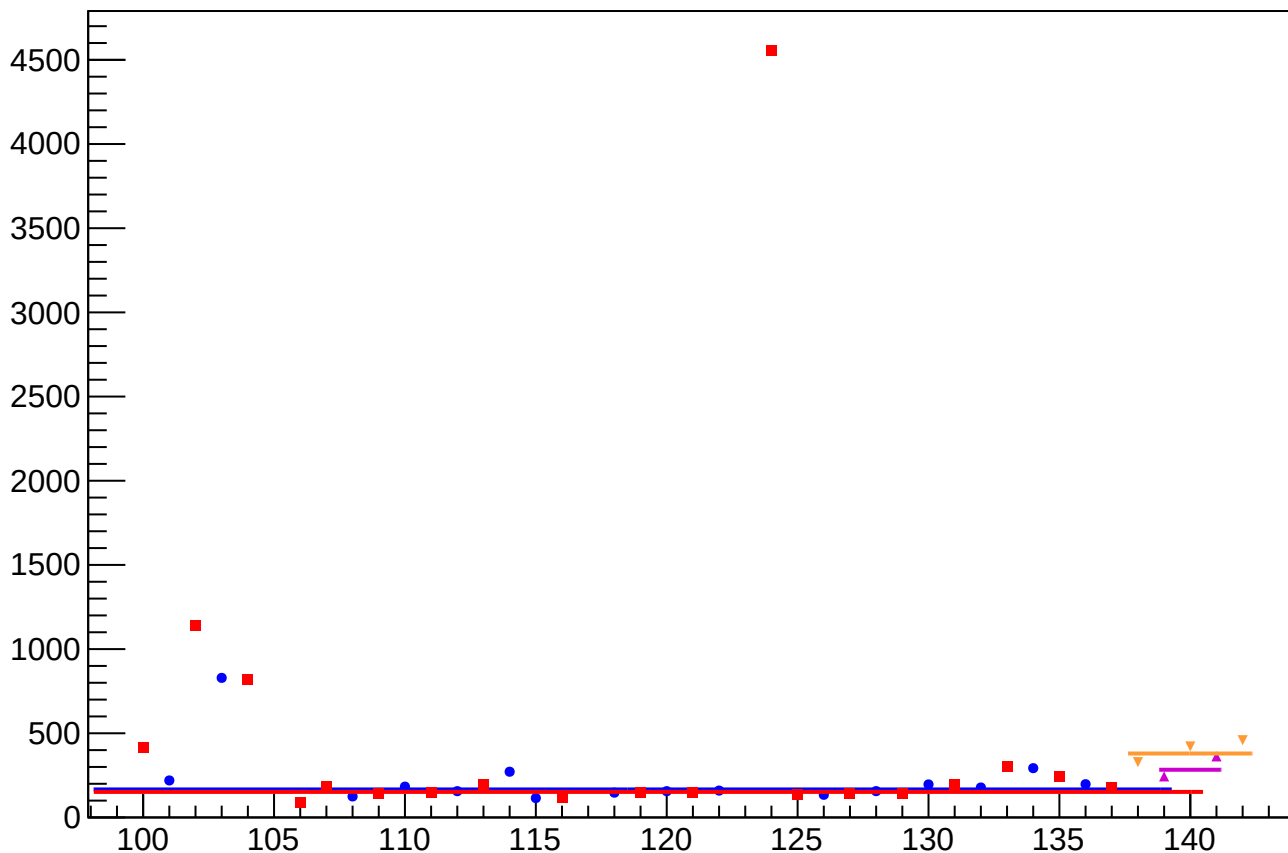
Right: -0.009 ± 0.046 $\chi^2/\text{NDF}: 43.2/34$

In: -0.065 ± 0.064 $\chi^2/\text{NDF}: 20.5/17$

Out: 0.050 ± 0.062 $\chi^2/\text{NDF}: 31.6/21$

All: -0.006 ± 0.045 $\chi^2/\text{NDF}: 53.7/39$

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 166.360+/-0.047 χ^2/NDF : 1282728.5/15

Left Out: 379.851+/-0.193 χ^2/NDF : 77598.2/2

Right Out: 151.791+/-0.045 χ^2/NDF : 2315638.8/18

Left In: 283.374+/-0.159 χ^2/NDF : 124396.6/1

Left: 322.356+/-0.123 χ^2/NDF : 350839.5/4

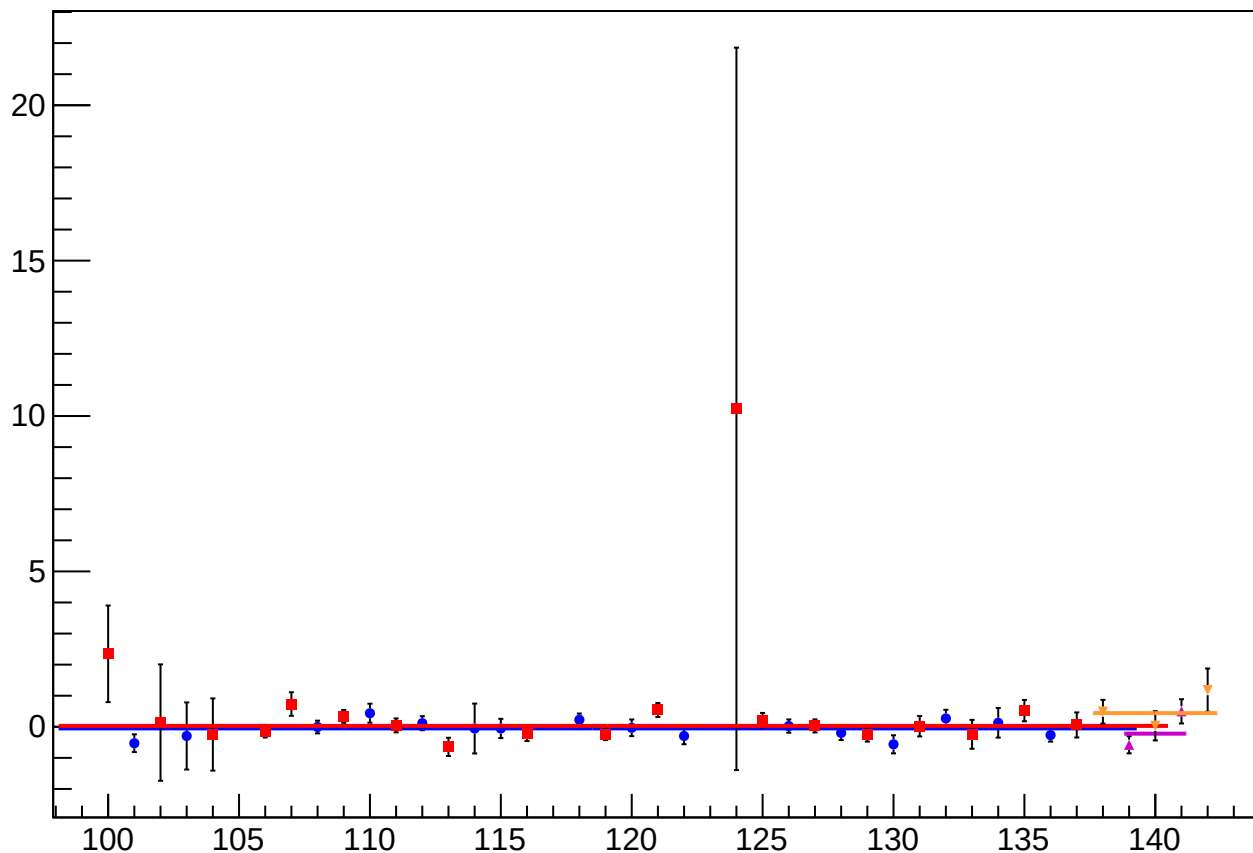
Right: 158.774+/-0.033 χ^2/NDF : 3648009.6/34

In: 175.835+/-0.045 χ^2/NDF : 1905141.0/17

Out: 163.679+/-0.044 χ^2/NDF : 3716150.7/21

All: 169.600+/-0.032 χ^2/NDF : 5658339.0/39

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.051 ± 0.067 χ^2/NDF : 14.9/15

Left Out: 0.440 ± 0.273 χ^2/NDF : 1.9/2

Right Out: 0.029 ± 0.064 χ^2/NDF : 27.5/18

Left In: -0.221 ± 0.225 χ^2/NDF : 5.1/1

Left: 0.046 ± 0.174 χ^2/NDF : 10.5/4

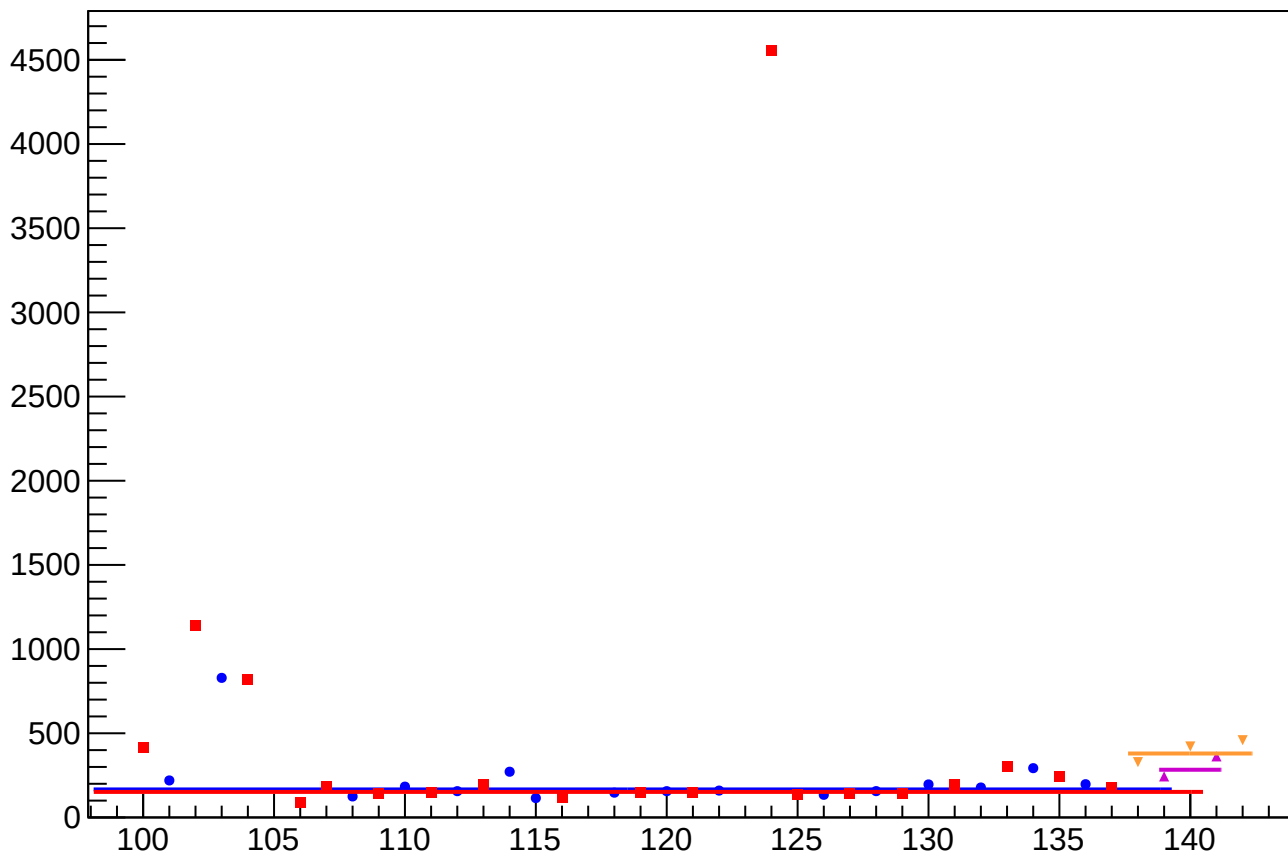
Right: -0.009 ± 0.046 χ^2/NDF : 43.2/34

In: -0.065 ± 0.064 χ^2/NDF : 20.5/17

Out: 0.050 ± 0.062 χ^2/NDF : 31.6/21

All: -0.006 ± 0.045 χ^2/NDF : 53.7/39

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 166.360+/-0.047 χ^2/NDF : 1282728.5/15

Left Out: 379.851+/-0.193 χ^2/NDF : 77598.2/2

Right Out: 151.791+/-0.045 χ^2/NDF : 2315638.8/18

Left In: 283.374+/-0.159 χ^2/NDF : 124396.6/1

Left: 322.356+/-0.123 χ^2/NDF : 350839.5/4

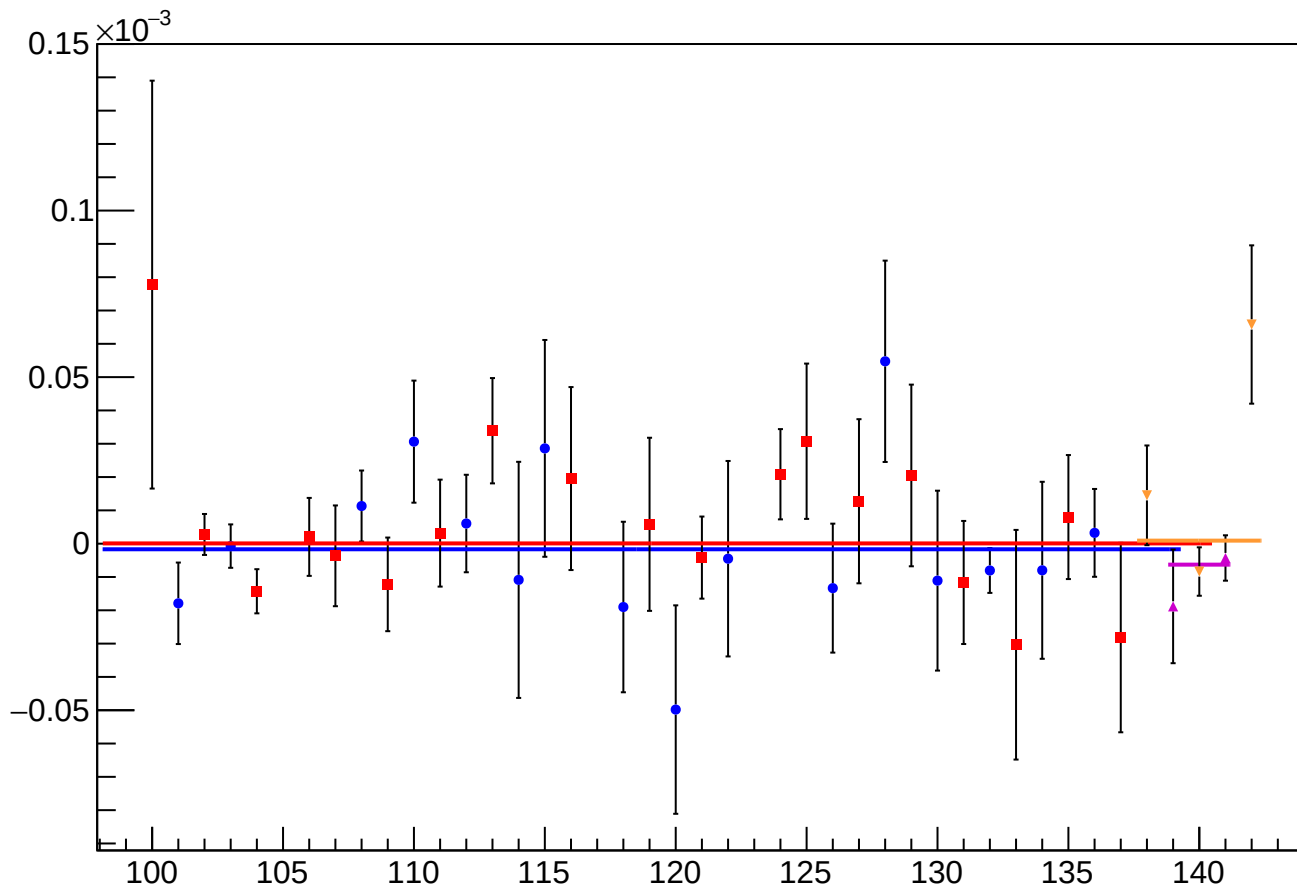
Right: 158.774+/-0.033 χ^2/NDF : 3648009.6/34

In: 175.835+/-0.045 χ^2/NDF : 1905141.0/17

Out: 163.679+/-0.044 χ^2/NDF : 3716150.7/21

All: 169.600+/-0.032 χ^2/NDF : 5658339.0/39

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 15.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 9.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 19.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.6/1

Left: -0.000+/-0.000 χ^2/NDF : 11.2/4

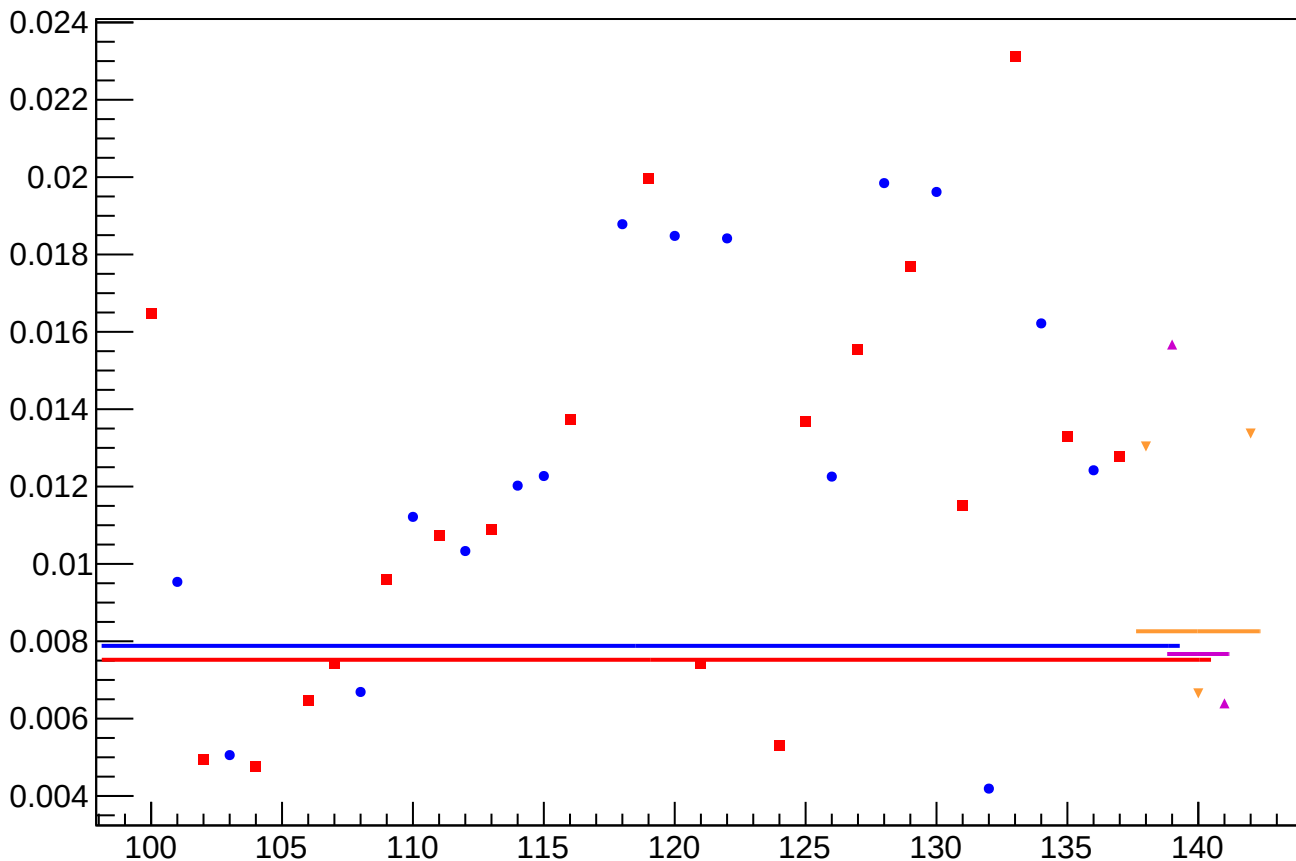
Right: -0.000+/-0.000 χ^2/NDF : 35.5/34

In: -0.000+/-0.000 χ^2/NDF : 16.5/17

Out: 0.000+/-0.000 χ^2/NDF : 29.8/21

All: -0.000+/-0.000 χ^2/NDF : 46.9/39

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 3301734.3/15

Left Out: 0.008+/-0.000 χ^2/NDF :393949.4/2

Right Out: 0.008+/-0.000 χ^2/NDF : 2975331.6/18

Left In: 0.008+/-0.000 χ^2/NDF :510064.9/1

Left: 0.008+/-0.000 χ^2/NDF : 912659.2/4

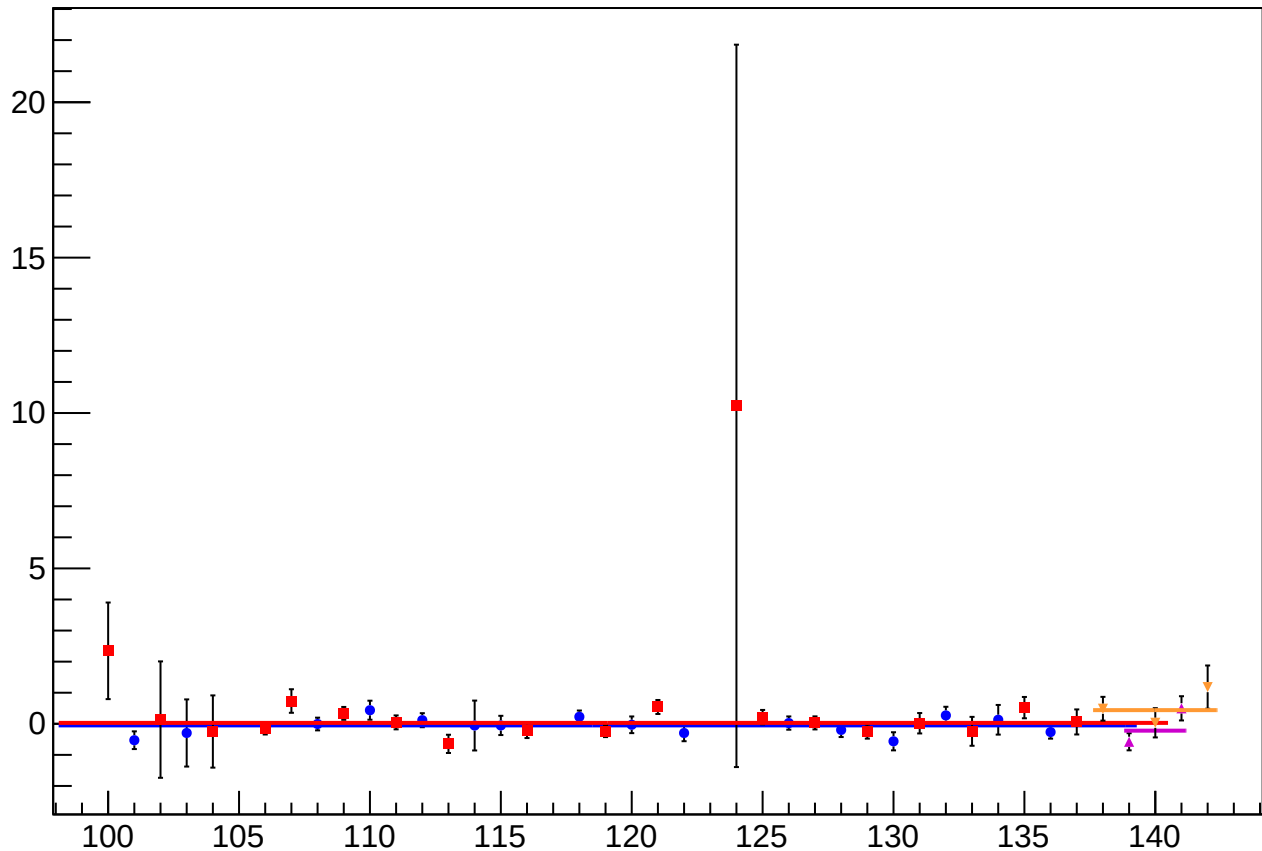
Right: 0.008+/-0.000 χ^2/NDF : 6289175.2/34

In: 0.008+/-0.000 χ^2/NDF :3813515.9/17

Out: 0.008+/-0.000 χ^2/NDF :3391175.3/21

All: 0.008+/-0.000 χ^2/NDF : 7207985.5/39

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.051 ± 0.067 $\chi^2/\text{NDF}: 14.9/15$

Left Out: 0.440 ± 0.273 $\chi^2/\text{NDF}: 1.9/2$

Right Out: 0.029 ± 0.064 $\chi^2/\text{NDF}: 27.5/18$

Left In: -0.221 ± 0.225 $\chi^2/\text{NDF}: 5.1/1$

Left: 0.046 ± 0.174 $\chi^2/\text{NDF}: 10.5/4$

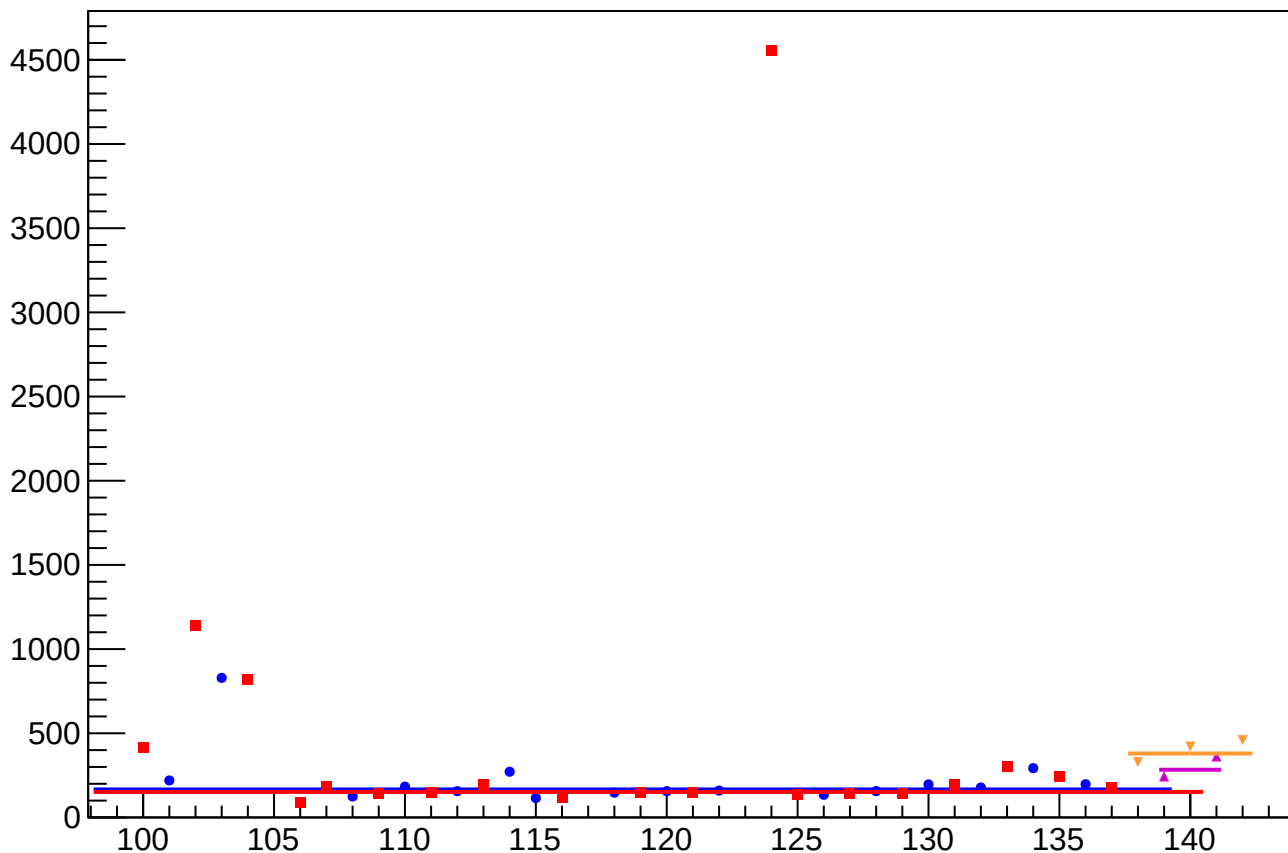
Right: -0.009 ± 0.046 $\chi^2/\text{NDF}: 43.2/34$

In: -0.065 ± 0.064 $\chi^2/\text{NDF}: 20.5/17$

Out: 0.050 ± 0.062 $\chi^2/\text{NDF}: 31.6/21$

All: -0.006 ± 0.045 $\chi^2/\text{NDF}: 53.7/39$

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 166.359+/-0.047 χ^2/NDF : 1282724.2/15

Left Out: 379.854+/-0.193 χ^2/NDF : 77598.1/2

Right Out: 151.790+/-0.045 χ^2/NDF : 2315641.8/18

Left In: 283.379+/-0.159 χ^2/NDF : 124385.5/1

Left: 322.361+/-0.123 χ^2/NDF : 350818.3/4

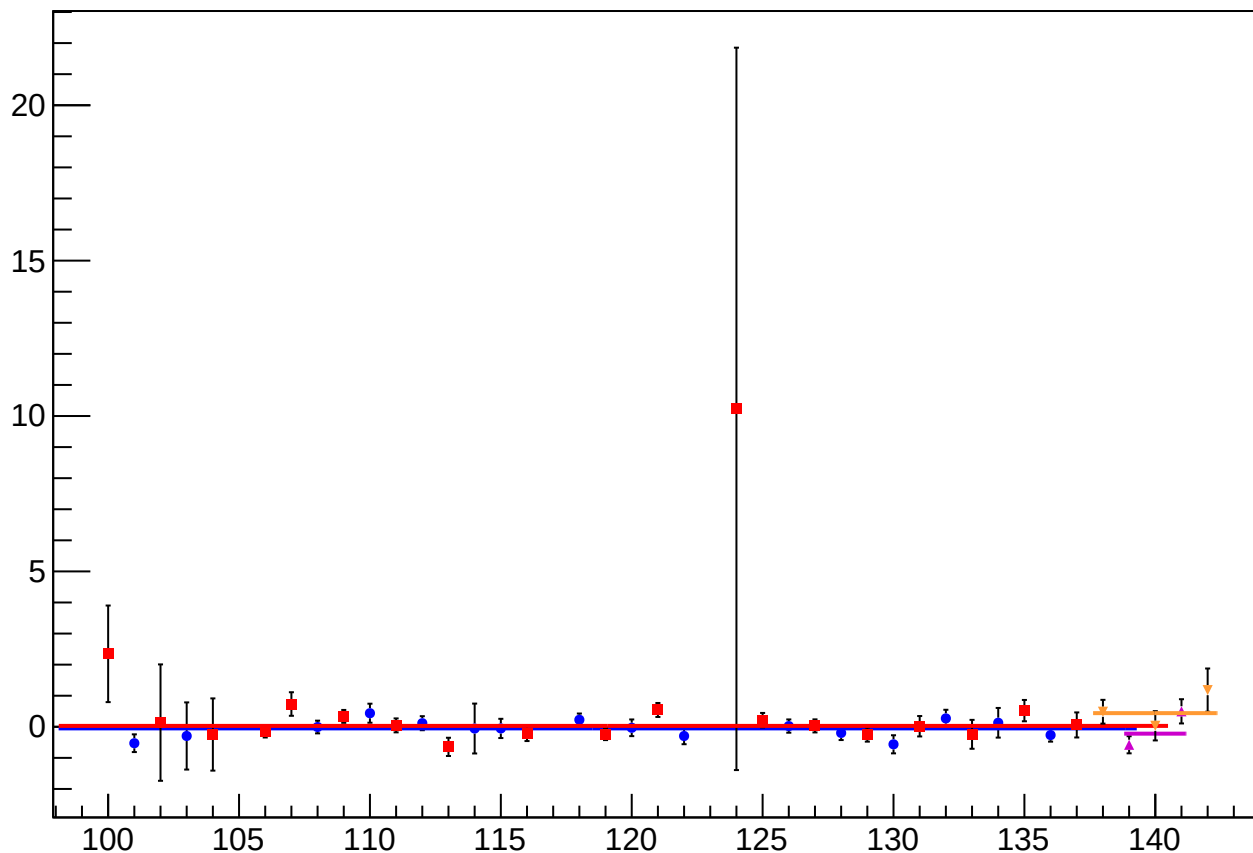
Right: 158.773+/-0.033 χ^2/NDF : 3648012.6/34

In: 175.835+/-0.045 χ^2/NDF : 1905162.2/17

Out: 163.678+/-0.044 χ^2/NDF : 3716187.8/21

All: 169.599+/-0.032 χ^2/NDF : 5658402.6/39

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.051 ± 0.067 χ^2/NDF : 14.9/15

Left Out: 0.440 ± 0.273 χ^2/NDF : 1.9/2

Right Out: 0.029 ± 0.064 χ^2/NDF : 27.5/18

Left In: -0.221 ± 0.225 χ^2/NDF : 5.1/1

Left: 0.046 ± 0.174 χ^2/NDF : 10.5/4

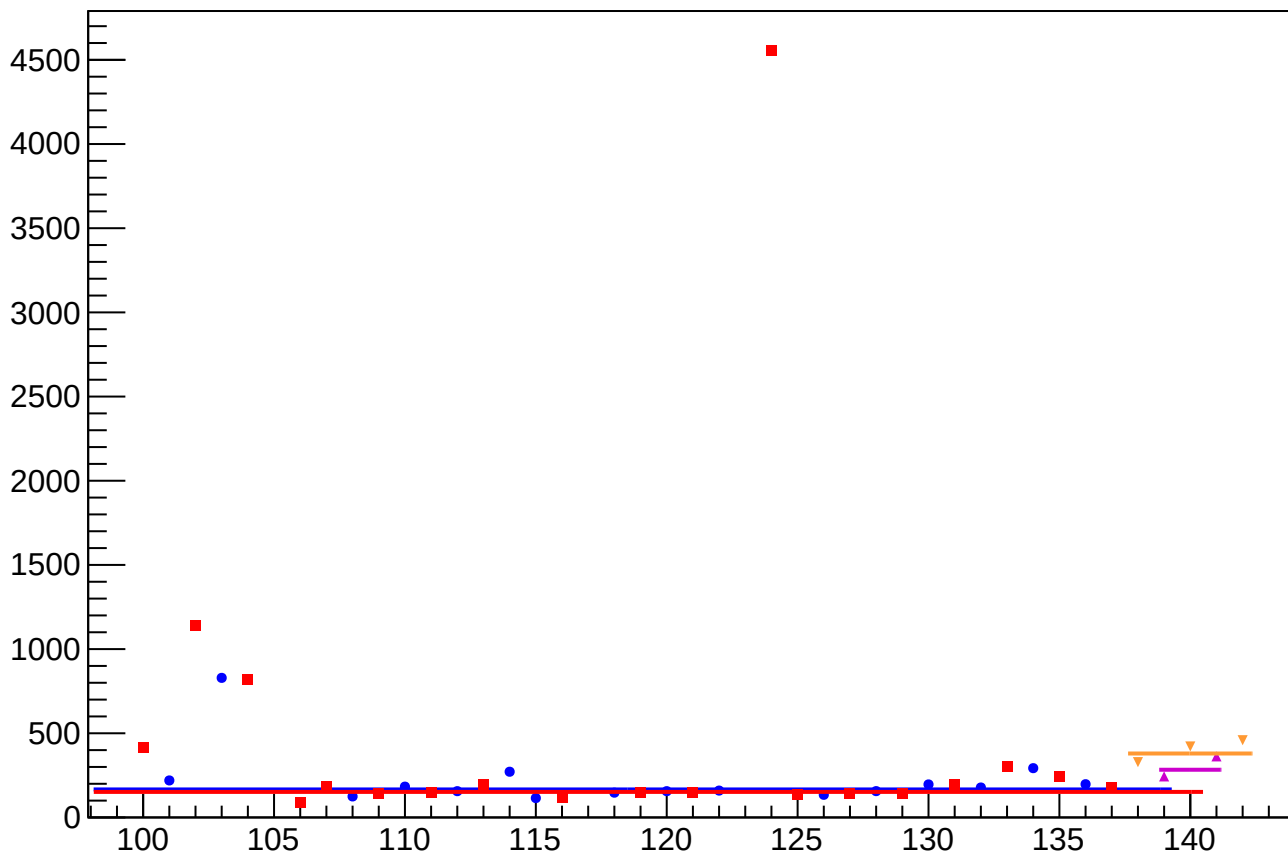
Right: -0.009 ± 0.046 χ^2/NDF : 43.2/34

In: -0.065 ± 0.064 χ^2/NDF : 20.5/17

Out: 0.050 ± 0.062 χ^2/NDF : 31.6/21

All: -0.006 ± 0.045 χ^2/NDF : 53.7/39

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 166.359+/-0.047 χ^2/NDF : 1282724.2/15

Left Out: 379.854+/-0.193 χ^2/NDF :77598.1/2

Right Out: 151.790 ± 0.045 χ^2/NDF : 2315641.8/18

Left In: 283.379+/-0.159 χ^2/NDF :124385.5/1

Left: 322.361 ± 0.123 $\chi^2/\text{NDF}: 350818.3/4$

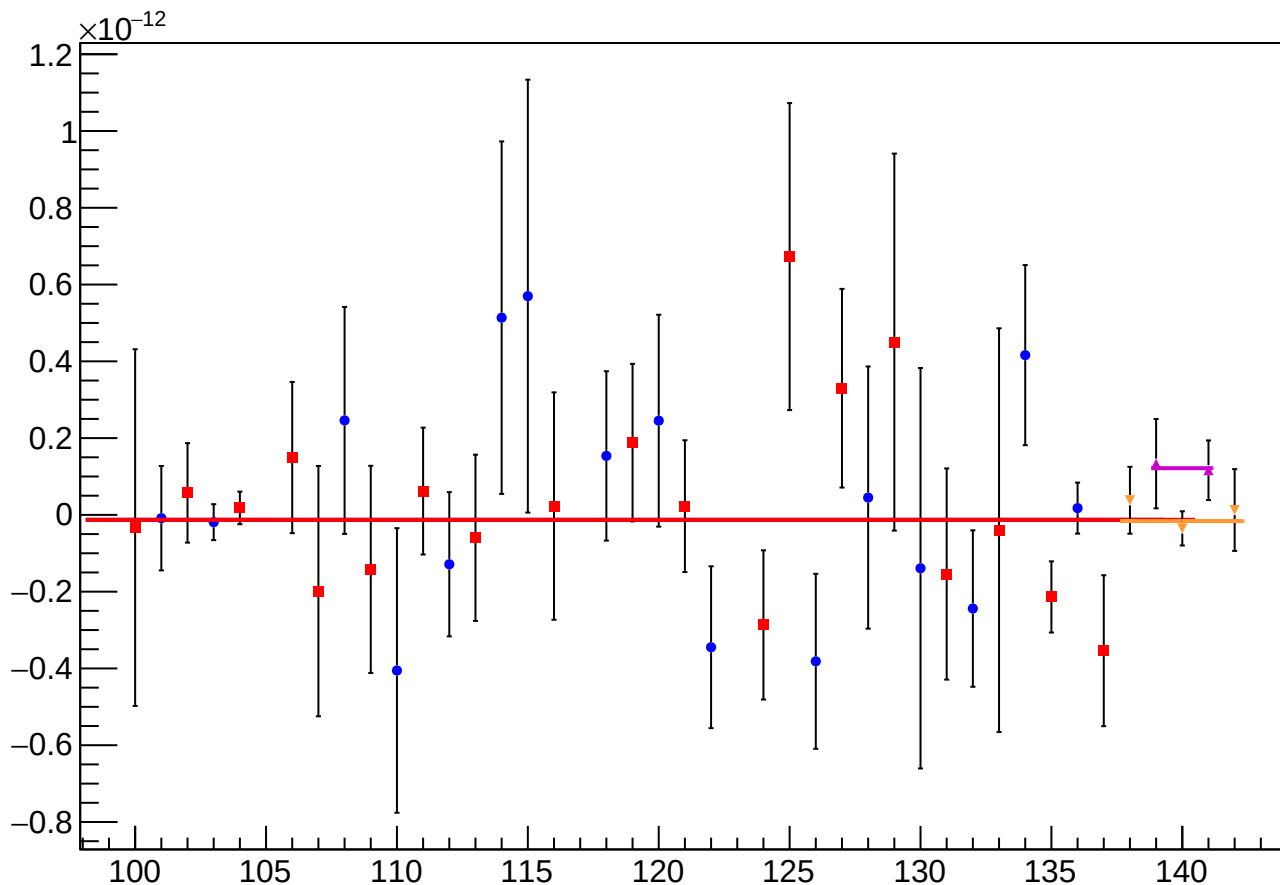
Right: 158.773 $\pm$ 0.033 χ^2 /NDF: 3648012.6/34

In: 175.835+/-0.045 χ^2/NDF :1905162.2/17

Out: 163.678+/-0.044 χ^2/NDF :3716187.8/21

All: 169.599+/-0.032 χ^2/NDF : 5658402.6/39

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.1/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.6/2

Right Out: -0.000+/-0.000 χ^2/NDF : 18.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 4.1/4

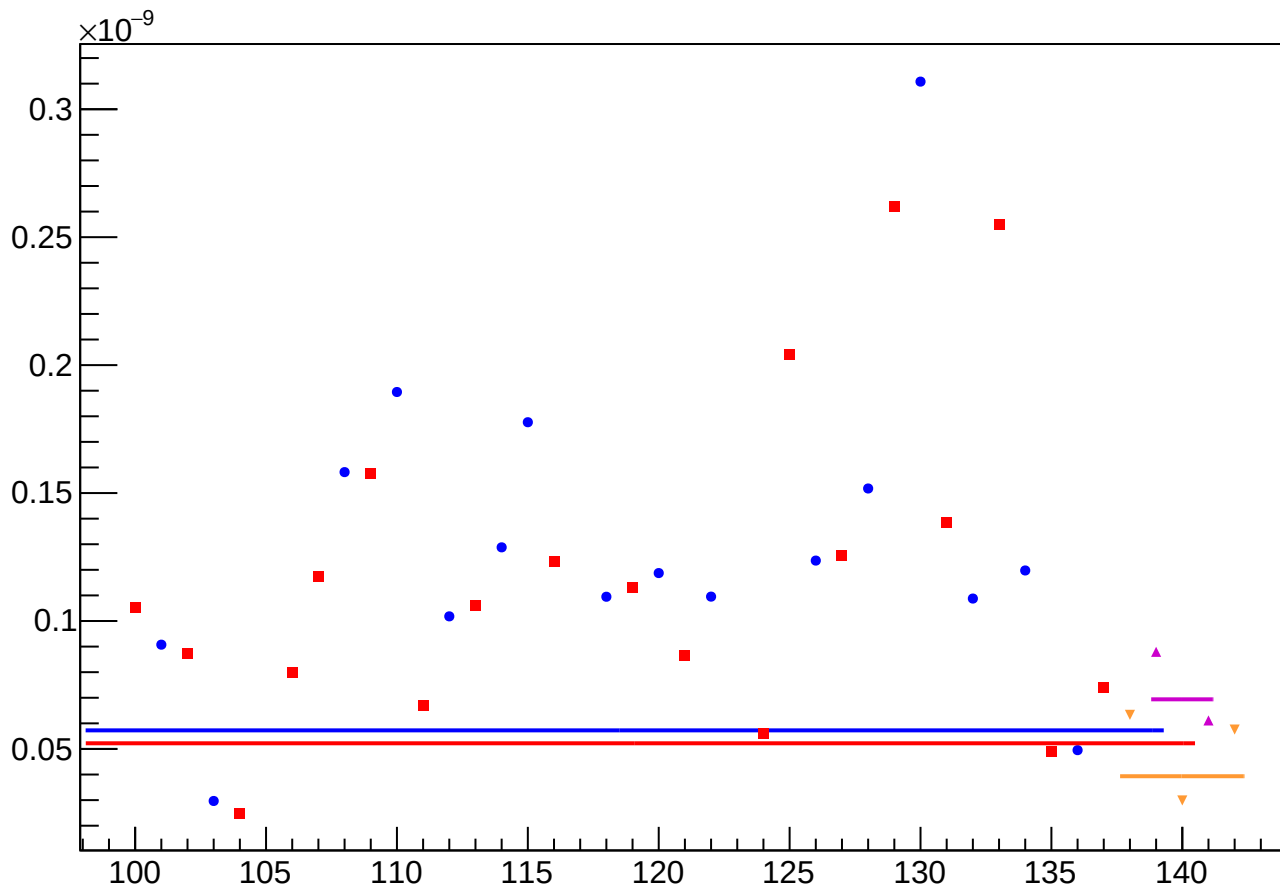
Right: -0.000+/-0.000 χ^2/NDF : 35.0/34

In: 0.000+/-0.000 χ^2/NDF : 19.6/17

Out: -0.000+/-0.000 χ^2/NDF : 19.5/21

All: -0.000+/-0.000 χ^2/NDF : 39.7/39

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2983121.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 300744.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3287828.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 73537.6/1

Left: 0.000+/-0.000 χ^2/NDF : 699835.5/4

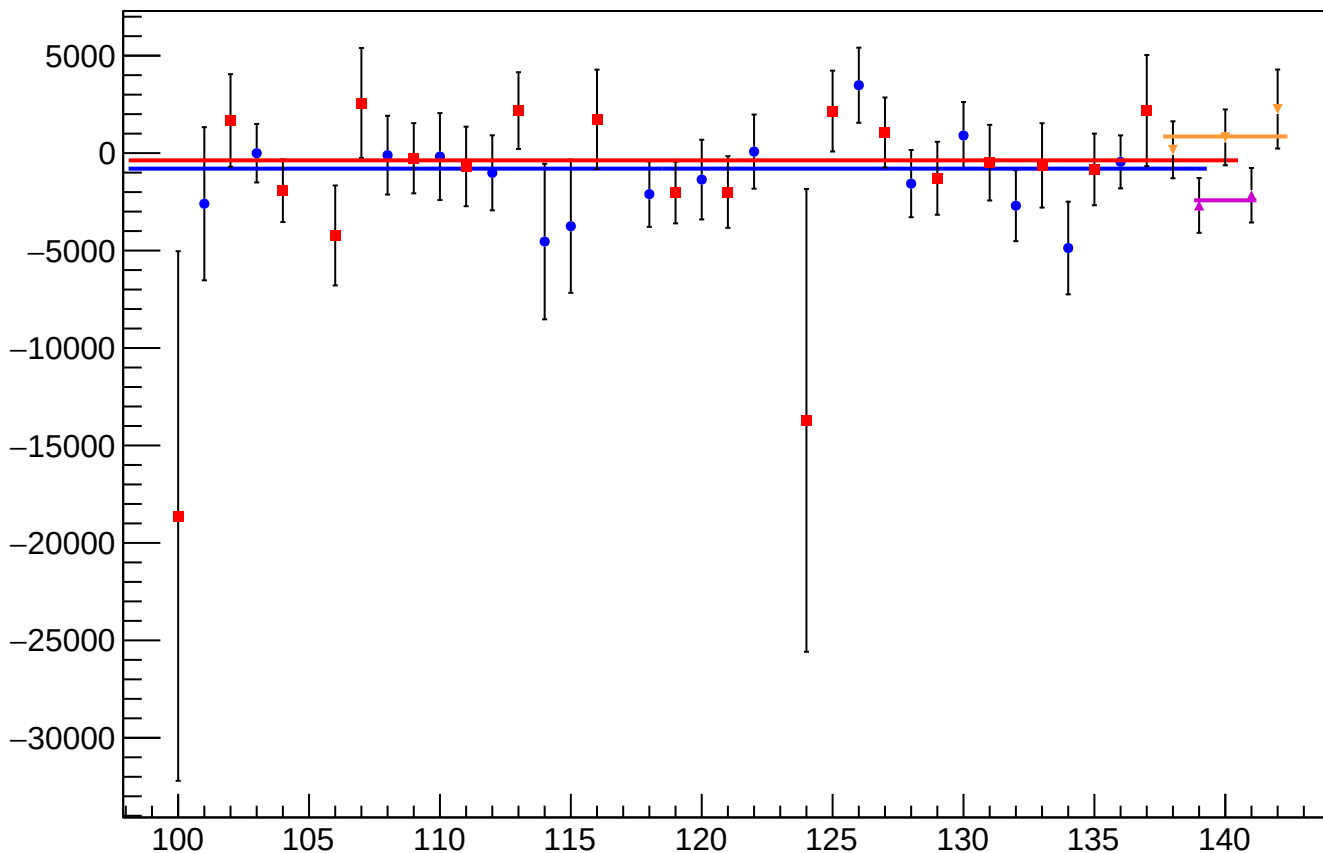
Right: 0.000+/-0.000 χ^2/NDF : 6295515.7/34

In: 0.000+/-0.000 χ^2/NDF : 3112659.0/17

Out: 0.000+/-0.000 χ^2/NDF : 3728284.5/21

All: 0.000+/-0.000 χ^2/NDF : 7073824.5/39

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -797.285+/-487.453 χ^2/NDF : 13.4/15

Left Out: 854.677+/-913.422 χ^2/NDF : 0.7/2

Right Out: -370.010+/-485.826 χ^2/NDF : 15.6/18

Left In: -2421.580+/-991.779 χ^2/NDF : 0.1/1

Left: -648.934+/-671.883 χ^2/NDF : 6.7/4

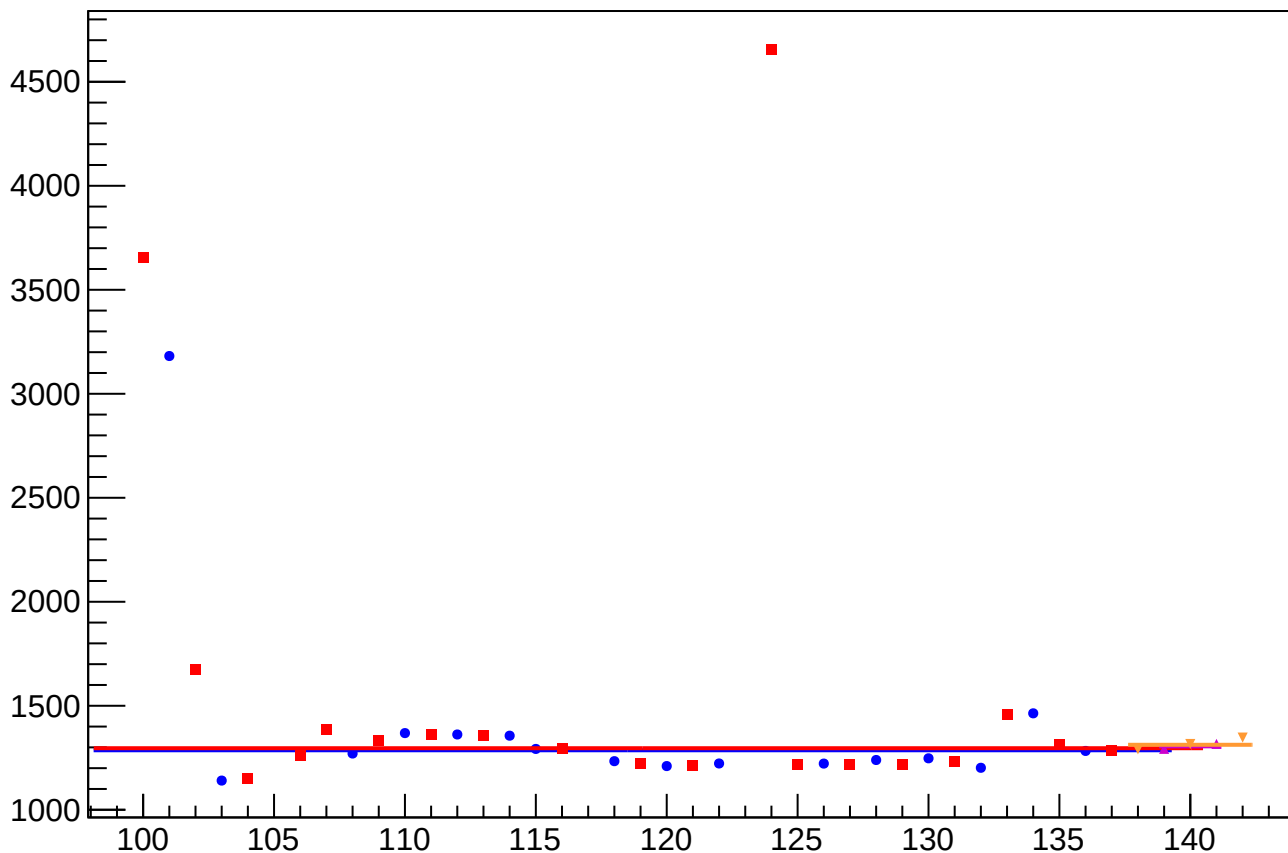
Right: -582.933+/-344.105 χ^2/NDF : 29.4/34

In: -1113.317+/-437.470 χ^2/NDF : 15.6/17

Out: -99.955+/-428.929 χ^2/NDF : 17.7/21

All: -596.648+/-306.274 χ^2/NDF : 36.1/39

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1286.097+/-0.345 χ^2/NDF : 518126.9/15

Left Out: 1312.398+/-0.646 χ^2/NDF :1047.2/2

Right Out: 1295.943+/-0.344 χ^2/NDF : 328069.9/18

Left In: 1304.917+/-0.701 χ^2/NDF :288.4/1

Left: 1308.965+/-0.475 χ^2/NDF : 1397.2/4

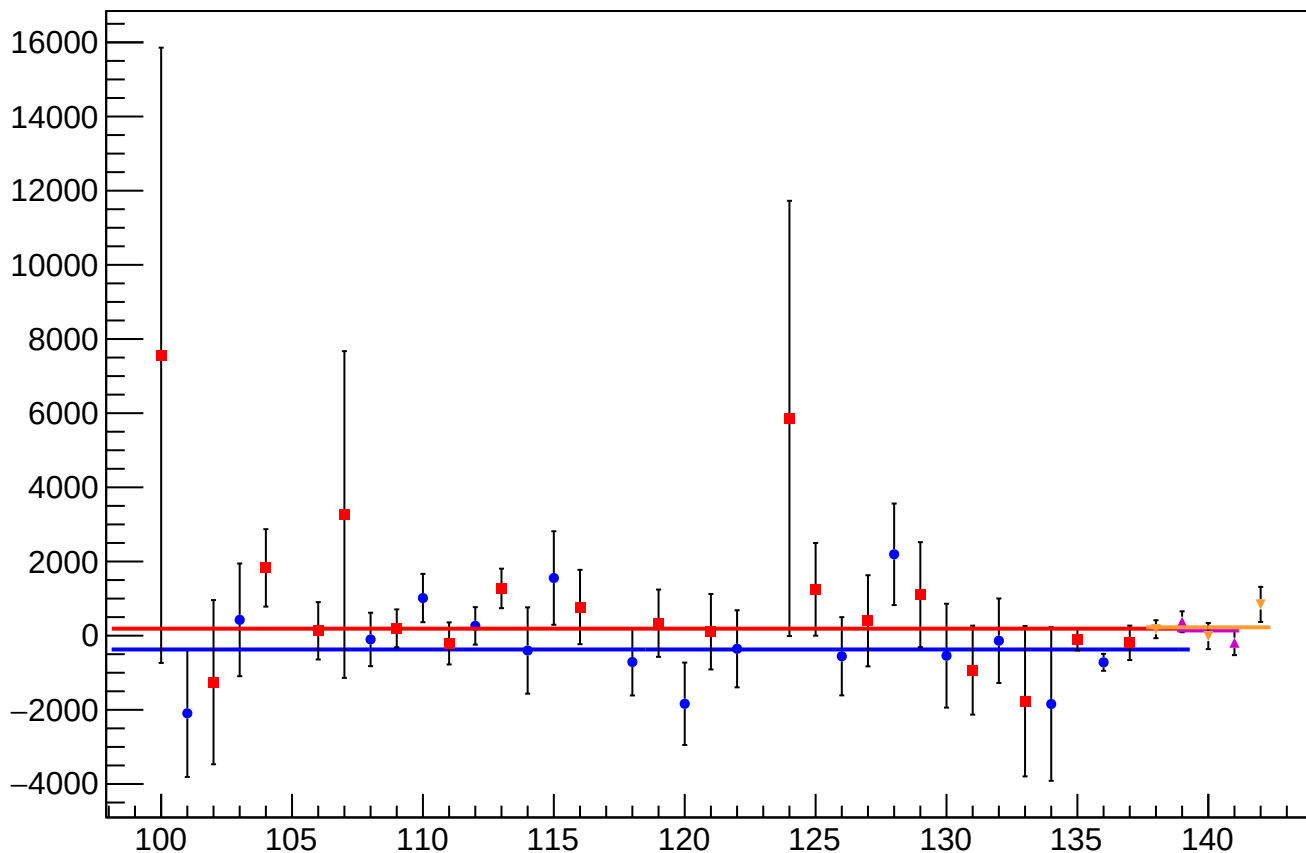
Right: 1291.036+/-0.243 χ^2/NDF : 846606.2/34

In: 1289.759+/-0.309 χ^2/NDF :518995.4/17

Out: 1299.571+/-0.303 χ^2/NDF :329623.1/21

All: 1294.762+/-0.217 χ^2/NDF : 849131.5/39

asym_atl_avg_atr_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -372.325+/-168.204 χ^2/NDF : 18.2/15

Left Out: 224.797+/-183.691 χ^2/NDF : 2.2/2

Right Out: 188.945+/-169.575 χ^2/NDF : 14.6/18

Left In: 140.955+/-215.928 χ^2/NDF : 1.7/1

Left: 189.596+/-139.913 χ^2/NDF : 3.9/4

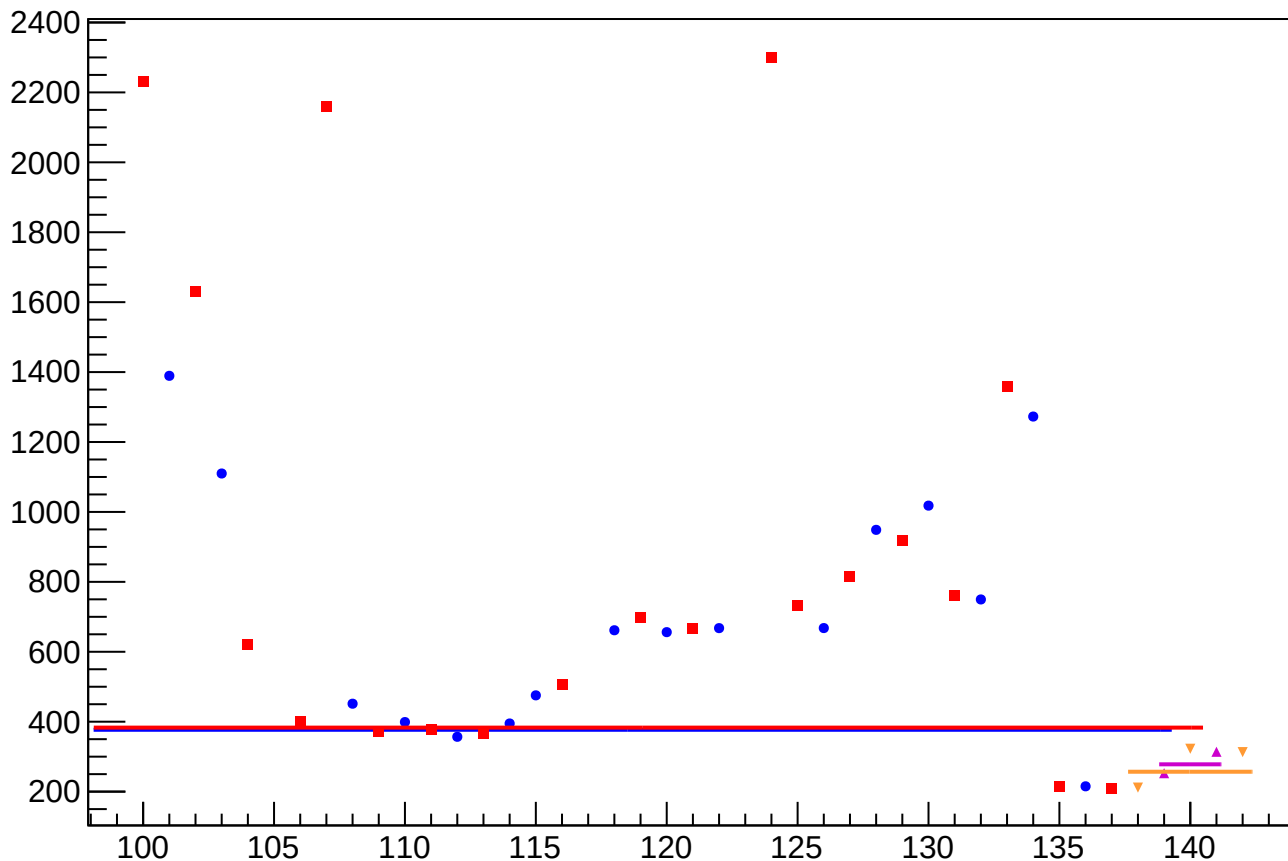
Right: -93.969+/-119.420 χ^2/NDF : 38.3/34

In: -178.486+/-132.695 χ^2/NDF : 23.3/17

Out: 205.441+/-124.600 χ^2/NDF : 16.9/21

All: 25.545+/-90.832 χ^2/NDF : 44.6/39

asym_atl_avg_atr_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 376.893+/-0.119 χ^2/NDF : 4190194.7/15

Left Out: 256.886+/-0.130 χ^2/NDF :168030.9/2

Right Out: 383.074+/-0.120 χ^2/NDF : 4054121.5/18

Left In: 278.092+/-0.153 χ^2/NDF :39183.4/1

Left: 265.789+/-0.099 χ^2/NDF : 218404.7/4

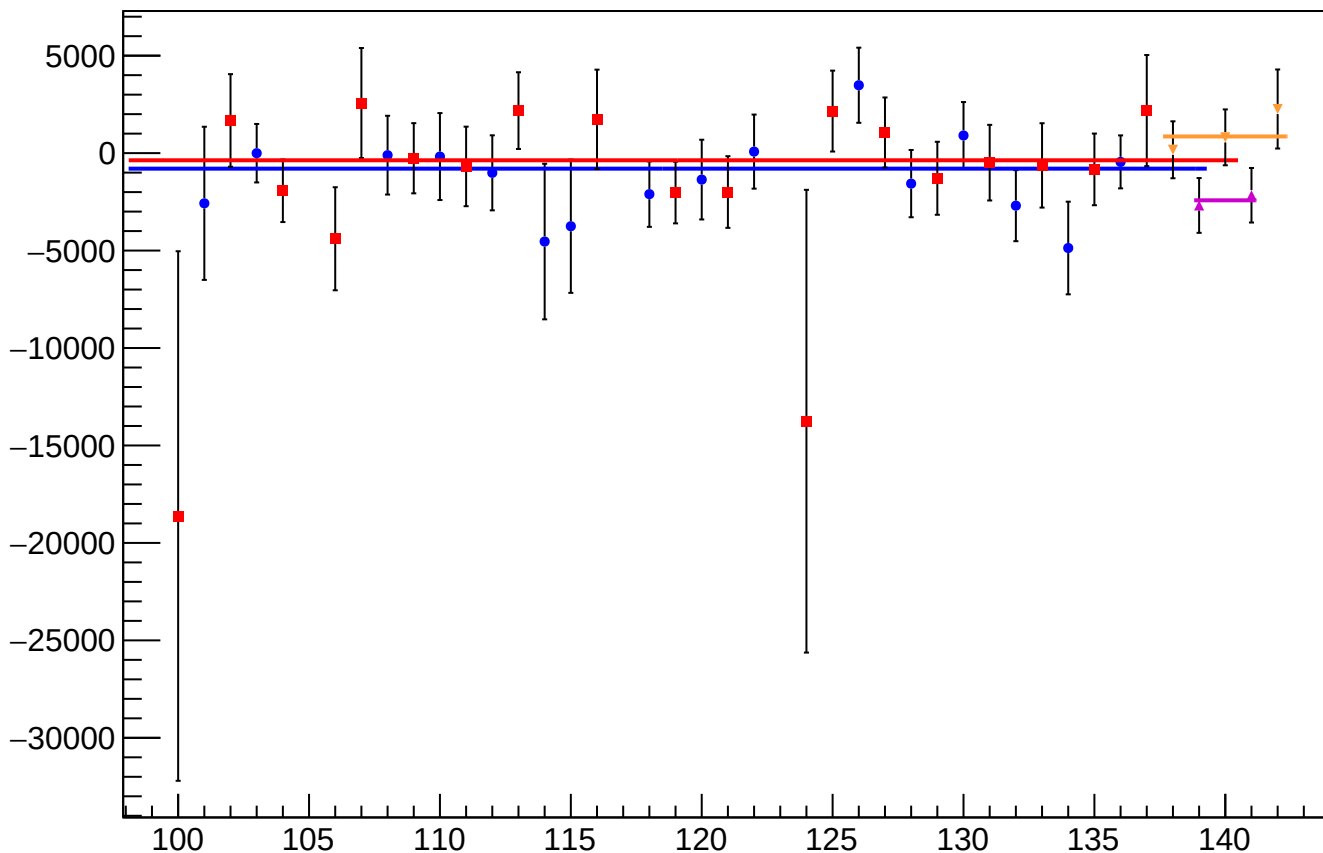
Right: 379.958+/-0.084 χ^2/NDF : 8245655.7/34

In: 339.581+/-0.094 χ^2/NDF :4489974.5/17

Out: 325.014+/-0.088 χ^2/NDF :4731713.8/21

All: 331.839+/-0.064 χ^2/NDF : 9234496.3/39

cor_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -796.883+/-487.454 χ^2/NDF : 13.4/15

Left Out: 854.867+/-913.422 χ^2/NDF : 0.7/2

Right Out: -367.476+/-486.348 χ^2/NDF : 15.7/18

Left In: -2421.688+/-991.779 χ^2/NDF : 0.1/1

Left: -648.880+/-671.883 χ^2/NDF : 6.7/4

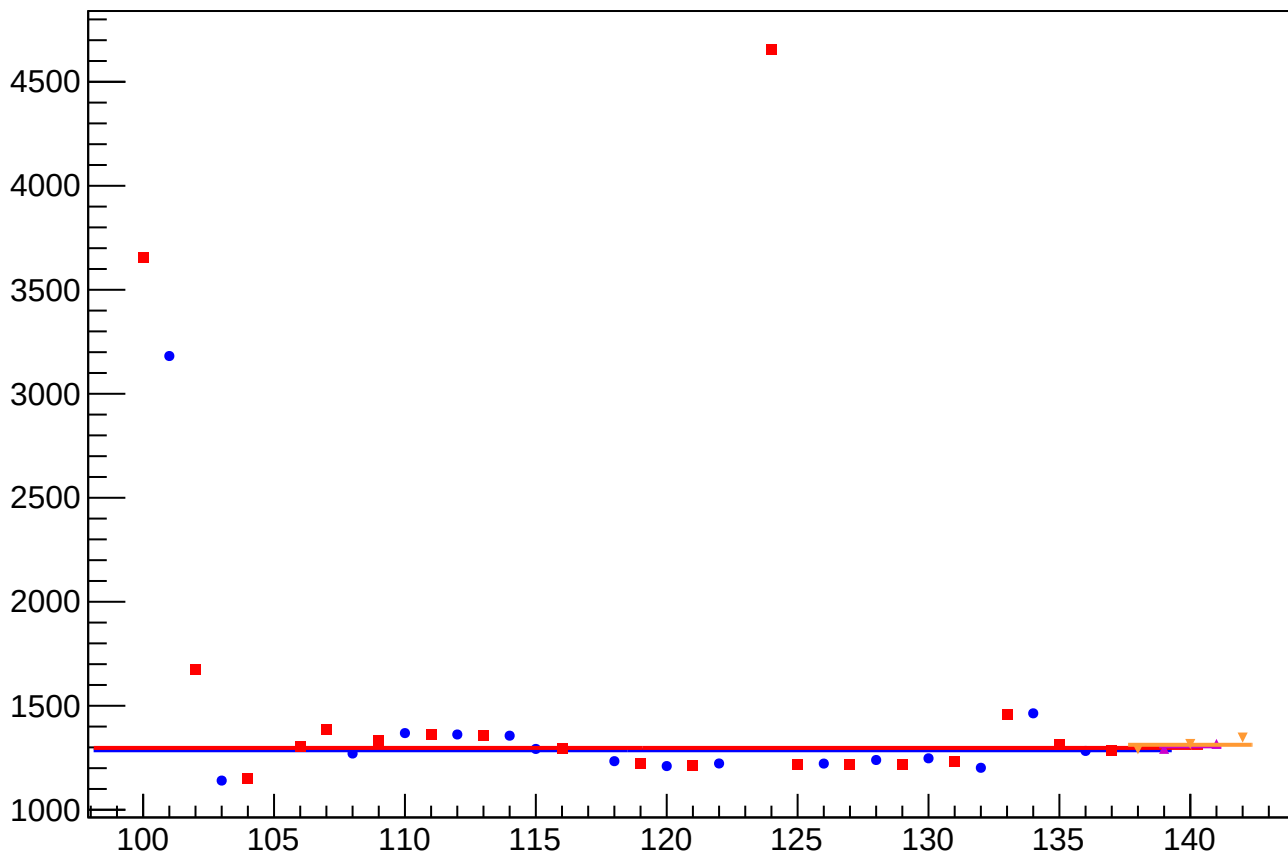
Right: -581.692+/-344.290 χ^2/NDF : 29.5/34

In: -1113.015+/-437.470 χ^2/NDF : 15.6/17

Out: -97.485+/-429.289 χ^2/NDF : 17.8/21

All: -595.665+/-306.405 χ^2/NDF : 36.2/39

cor_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1286.097+/-0.345 χ^2/NDF : 518128.4/15

Left Out: 1312.398+/-0.646 χ^2/NDF :1047.2/2

Right Out: 1297.394+/-0.344 χ^2/NDF : 327741.7/18

Left In: 1304.917+/-0.701 χ^2/NDF :288.4/1

Left: 1308.965+/-0.475 χ^2/NDF : 1397.2/4

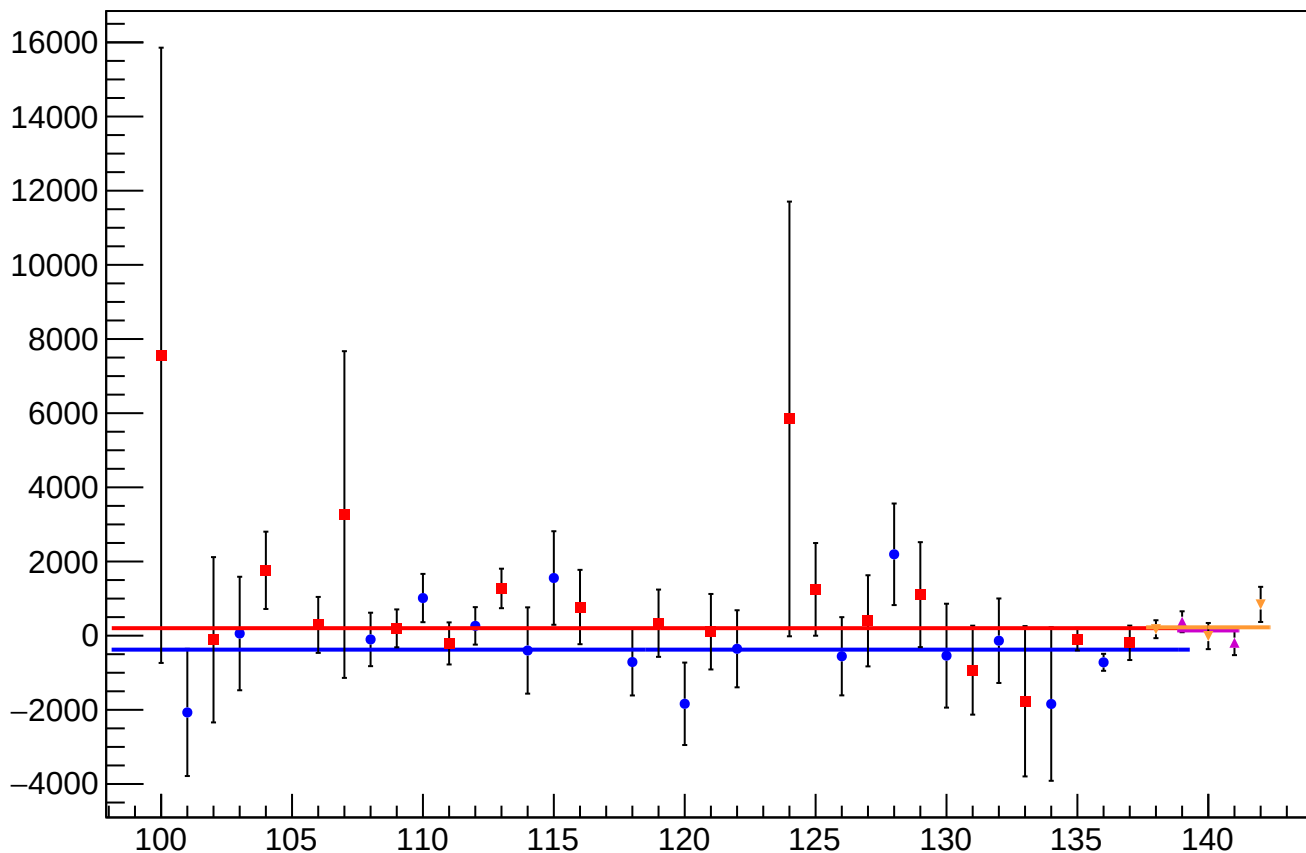
Right: 1291.758+/-0.243 χ^2/NDF : 846408.4/34

In: 1289.759+/-0.309 χ^2/NDF :518996.9/17

Out: 1300.708+/-0.304 χ^2/NDF :329209.3/21

All: 1295.337+/-0.217 χ^2/NDF : 848844.5/39

asym_atl_avg_atr_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -376.771 ± 168.223 $\chi^2/\text{NDF}: 17.9/15$

Left Out: 224.901 ± 183.699 $\chi^2/\text{NDF}: 2.2/2$

Right Out: 202.144 ± 169.377 $\chi^2/\text{NDF}: 14.0/18$

Left In: 141.120 ± 215.928 $\chi^2/\text{NDF}: 1.7/1$

Left: 189.724 ± 139.916 $\chi^2/\text{NDF}: 3.9/4$

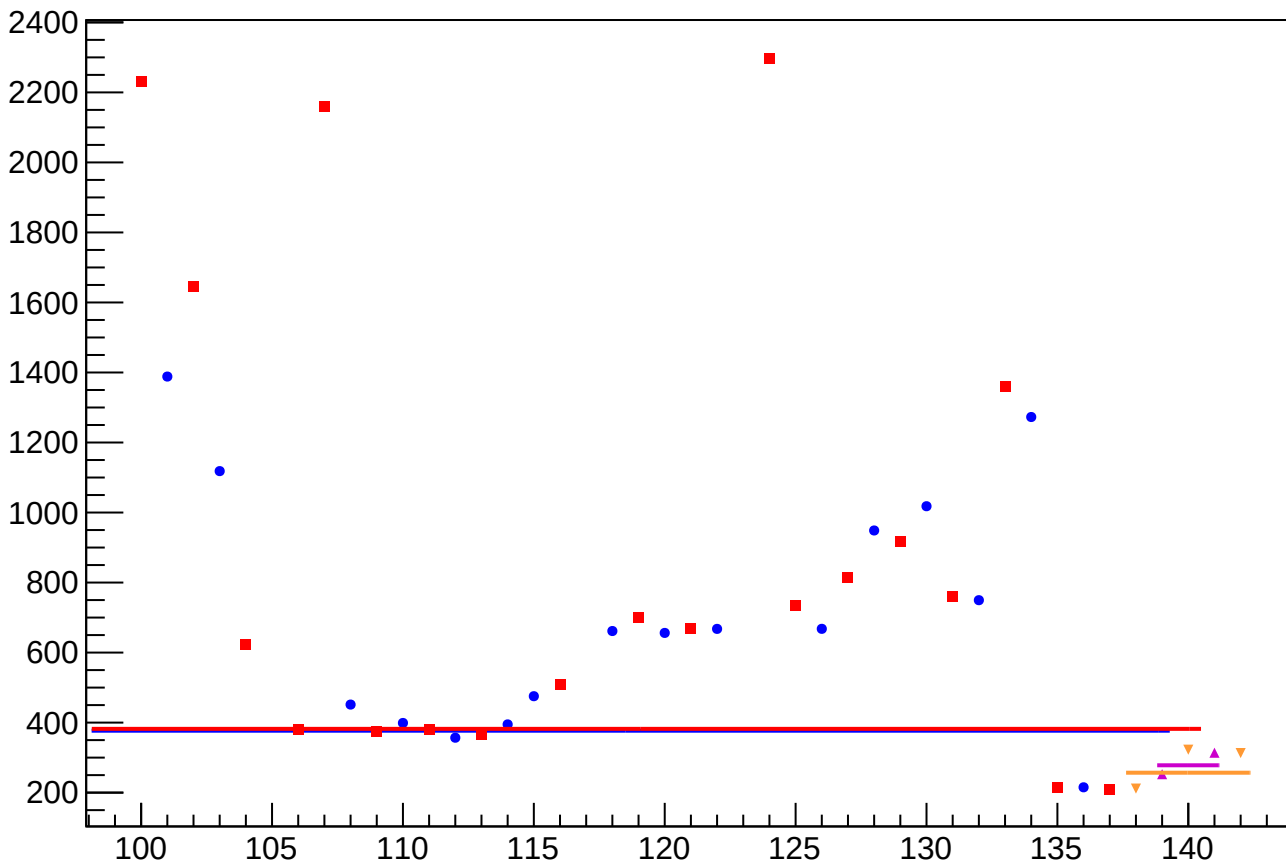
Right: -89.292 ± 119.358 $\chi^2/\text{NDF}: 37.9/34$

In: -181.162 ± 132.704 $\chi^2/\text{NDF}: 23.2/17$

Out: 212.601 ± 124.523 $\chi^2/\text{NDF}: 16.3/21$

All: 28.230 ± 90.806 $\chi^2/\text{NDF}: 44.1/39$

asym_atl_avg_atr_avg_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 376.884+/-0.119 χ^2/NDF : 4193328.0/15

Left Out: 256.898+/-0.130 χ^2/NDF : 168067.0/2

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 278.092+/-0.153 χ^2/NDF : 39169.8/1

Left: 265.796+/-0.099 χ^2/NDF : 218414.8/4

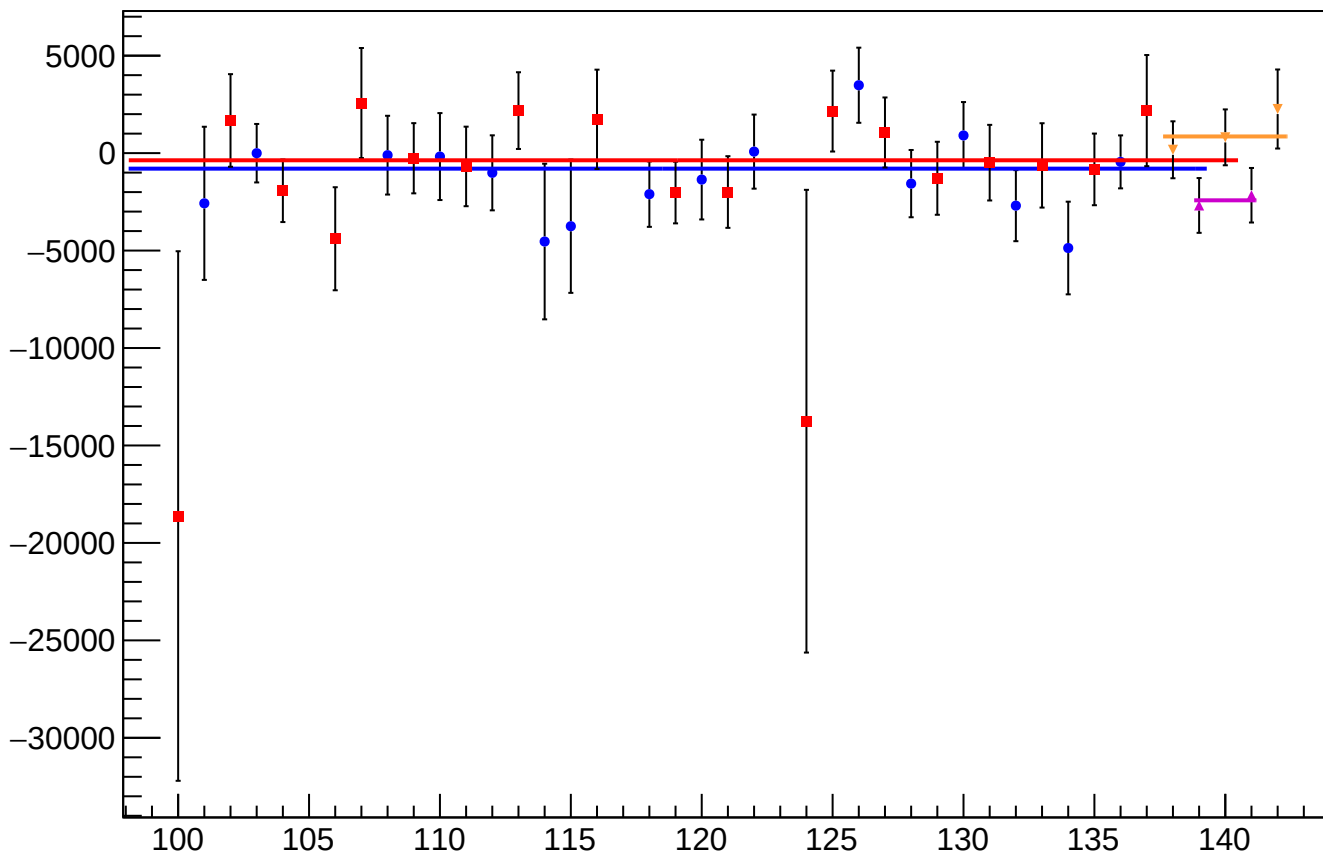
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 339.570+/-0.094 χ^2/NDF : 4493025.0/17

Out: 324.588+/-0.088 χ^2/NDF : 4730107.4/21

All: 331.603+/-0.064 χ^2/NDF : 9236687.2/39

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -796.883+/-487.454 χ^2/NDF : 13.4/15

Left Out: 854.867+/-913.422 χ^2/NDF : 0.7/2

Right Out: -367.476+/-486.348 χ^2/NDF : 15.7/18

Left In: -2421.688+/-991.779 χ^2/NDF : 0.1/1

Left: -648.880+/-671.883 χ^2/NDF : 6.7/4

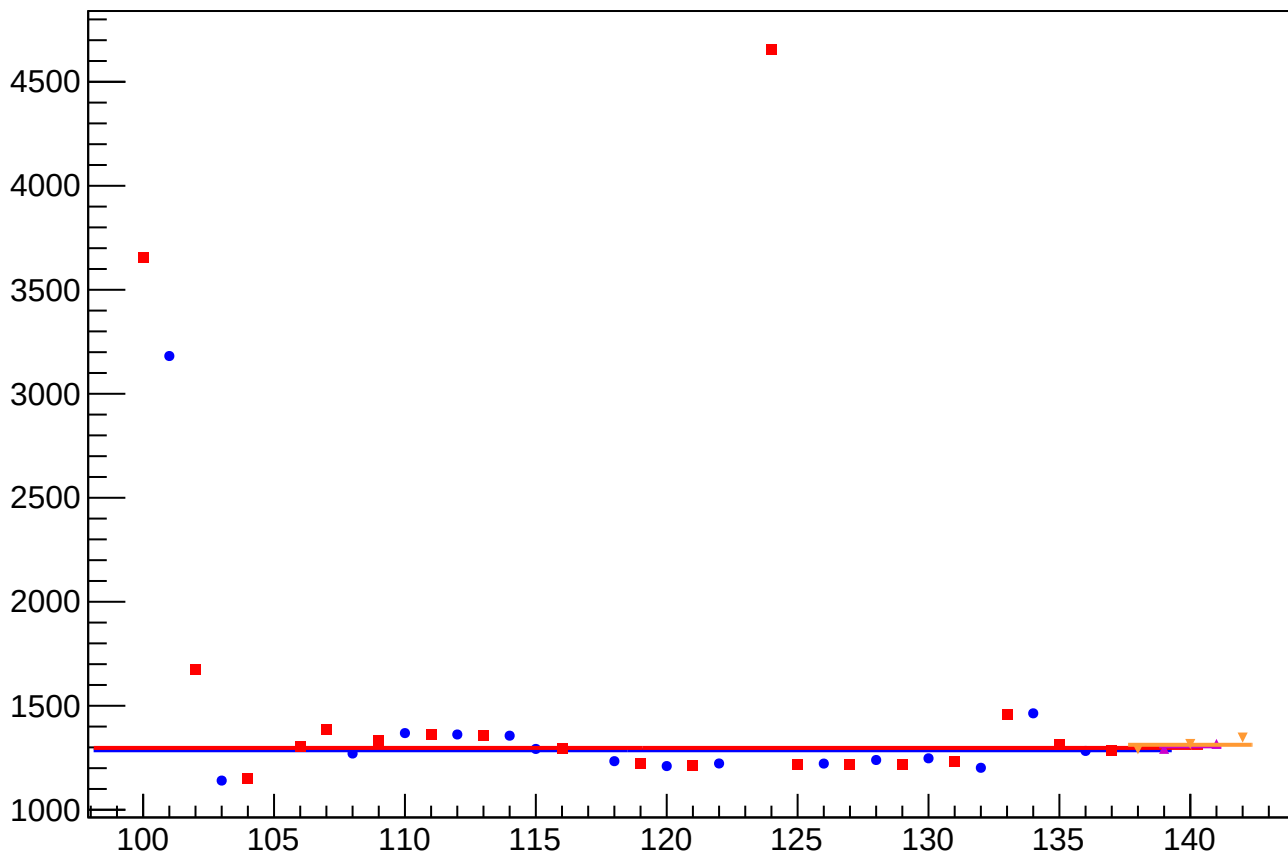
Right: -581.692+/-344.290 χ^2/NDF : 29.5/34

In: -1113.015+/-437.470 χ^2/NDF : 15.6/17

Out: -97.485+/-429.289 χ^2/NDF : 17.8/21

All: -595.665+/-306.405 χ^2/NDF : 36.2/39

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1286.097+/-0.345 χ^2/NDF : 518128.4/15

Left Out: 1312.398+/-0.646 χ^2/NDF :1047.2/2

Right Out: 1297.394+/-0.344 χ^2/NDF : 327741.7/18

Left In: 1304.917+/-0.701 χ^2/NDF :288.4/1

Left: 1308.965+/-0.475 χ^2/NDF : 1397.2/4

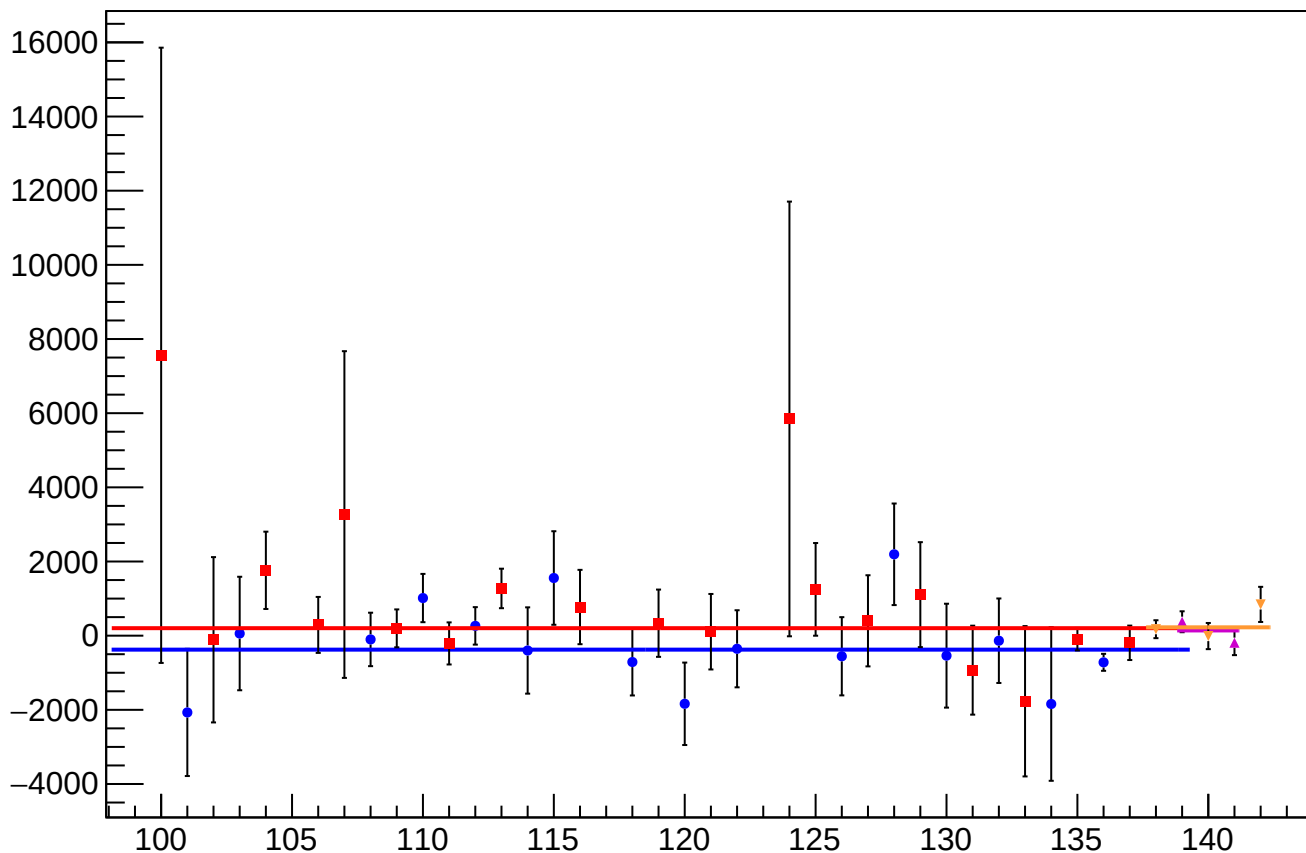
Right: 1291.758+/-0.243 χ^2/NDF : 846408.4/34

In: 1289.759+/-0.309 χ^2/NDF :518996.9/17

Out: 1300.708+/-0.304 χ^2/NDF :329209.3/21

All: 1295.337+/-0.217 χ^2/NDF : 848844.5/39

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -376.771 ± 168.223 $\chi^2/\text{NDF}: 17.9/15$

Left Out: 224.901 ± 183.699 $\chi^2/\text{NDF}: 2.2/2$

Right Out: 202.144 ± 169.377 $\chi^2/\text{NDF}: 14.0/18$

Left In: 141.120 ± 215.928 $\chi^2/\text{NDF}: 1.7/1$

Left: 189.724 ± 139.916 $\chi^2/\text{NDF}: 3.9/4$

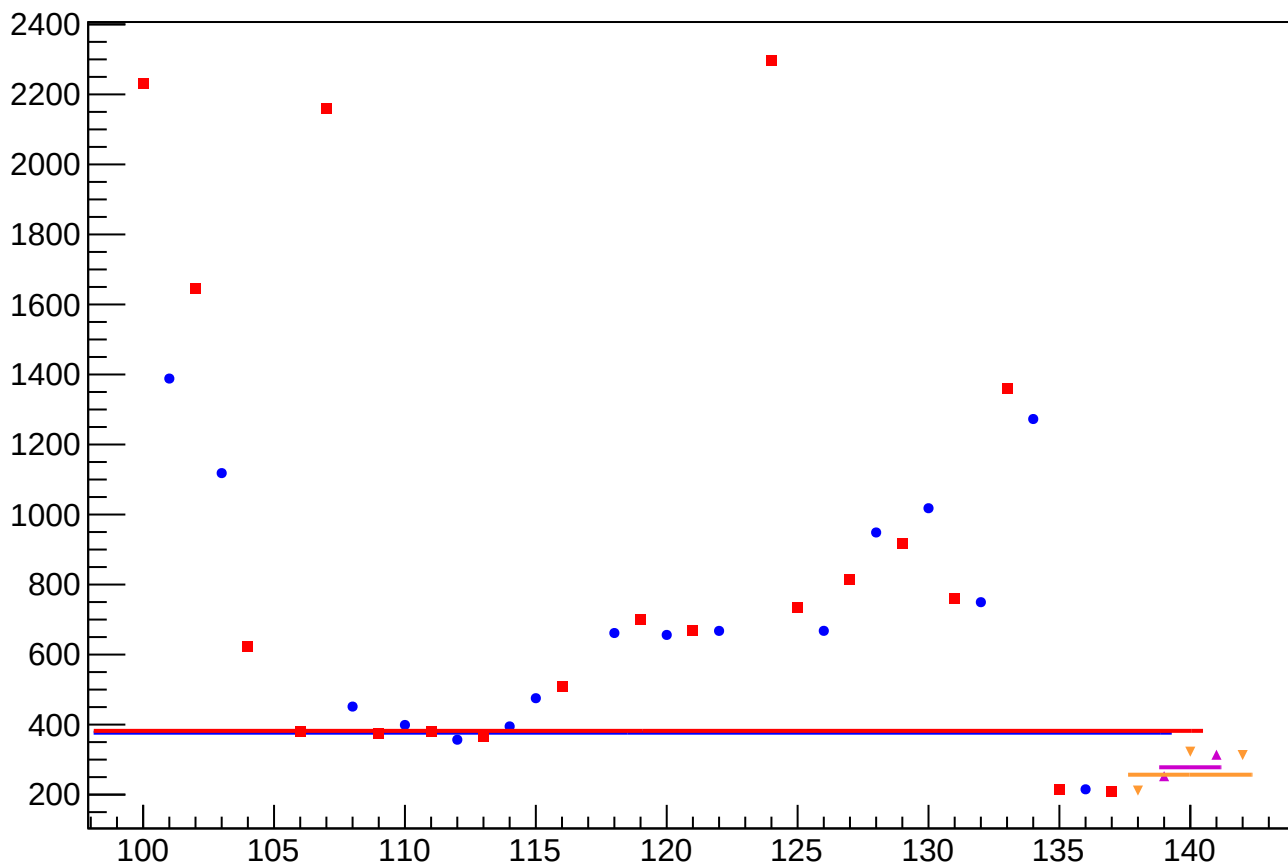
Right: -89.292 ± 119.358 $\chi^2/\text{NDF}: 37.9/34$

In: -181.162 ± 132.704 $\chi^2/\text{NDF}: 23.2/17$

Out: 212.601 ± 124.523 $\chi^2/\text{NDF}: 16.3/21$

All: 28.230 ± 90.806 $\chi^2/\text{NDF}: 44.1/39$

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 376.884+/-0.119 χ^2/NDF : 4193328.0/15

Left Out: 256.898+/-0.130 χ^2/NDF :168067.0/2

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 278.092+/-0.153 χ^2/NDF :39169.8/1

Left: 265.796+/-0.099 χ^2/NDF : 218414.8/4

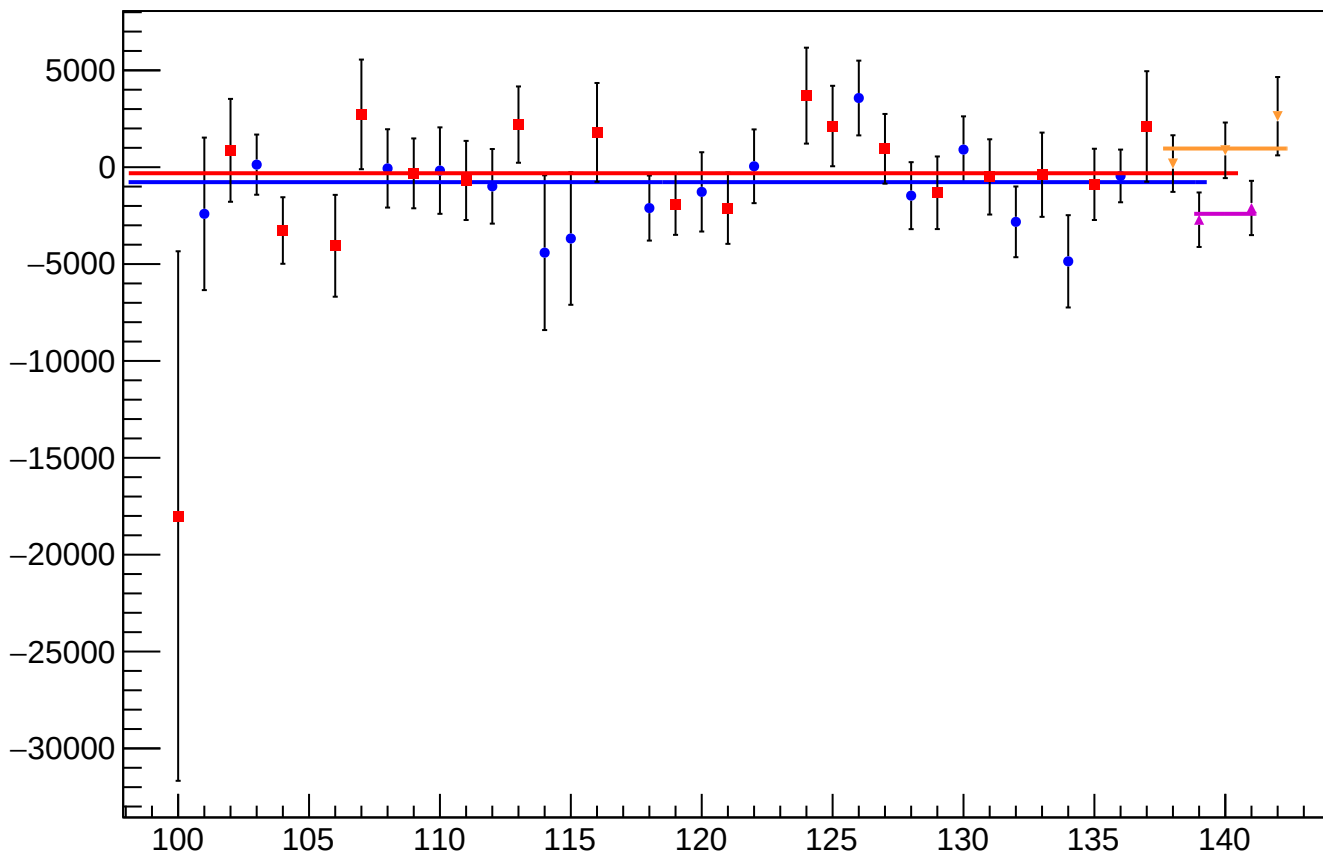
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 339.570+/-0.094 χ^2/NDF :4493025.0/17

Out: 324.588+/-0.088 χ^2/NDF :4730107.4/21

All: 331.603+/-0.064 χ^2/NDF : 9236687.2/39

dit_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -771.499+/-489.602 χ^2/NDF : 13.6/15

Left Out: 963.452+/-913.258 χ^2/NDF : 1.0/2

Right Out: -311.418+/-482.642 χ^2/NDF : 17.9/18

Left In: -2406.569+/-992.473 χ^2/NDF : 0.1/1

Left: -581.718+/-672.033 χ^2/NDF : 7.3/4

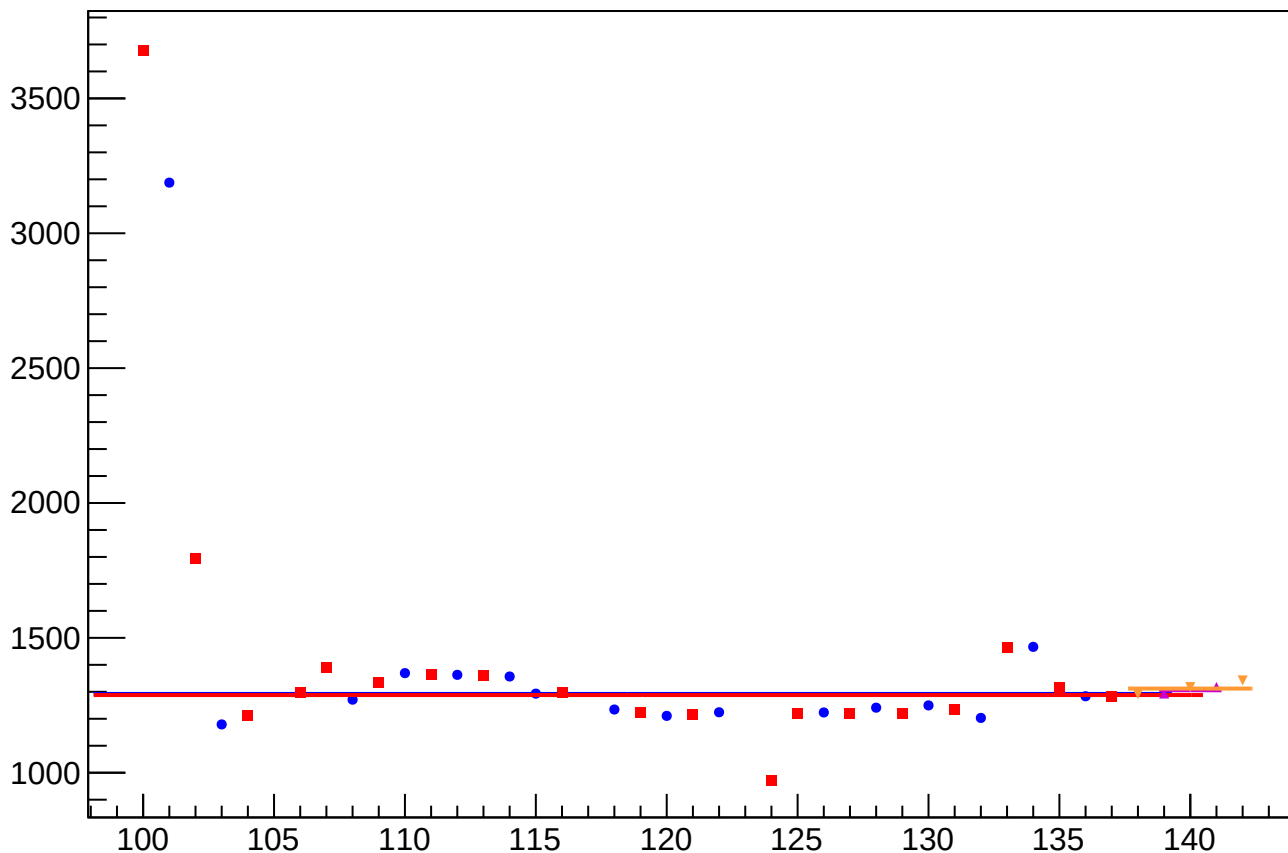
Right: -538.165+/-343.714 χ^2/NDF : 32.0/34

In: -1091.528+/-439.081 χ^2/NDF : 15.9/17

Out: -33.088+/-426.717 χ^2/NDF : 20.4/21

All: -547.196+/-306.012 χ^2/NDF : 39.3/39

dit_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1292.038+/-0.346 χ^2/NDF : 509406.3/15

Left Out: 1312.020+/-0.646 χ^2/NDF : 889.4/2

Right Out: 1287.988+/-0.341 χ^2/NDF : 209208.8/18

Left In: 1305.816+/-0.702 χ^2/NDF : 295.2/1

Left: 1309.175+/-0.475 χ^2/NDF : 1227.0/4

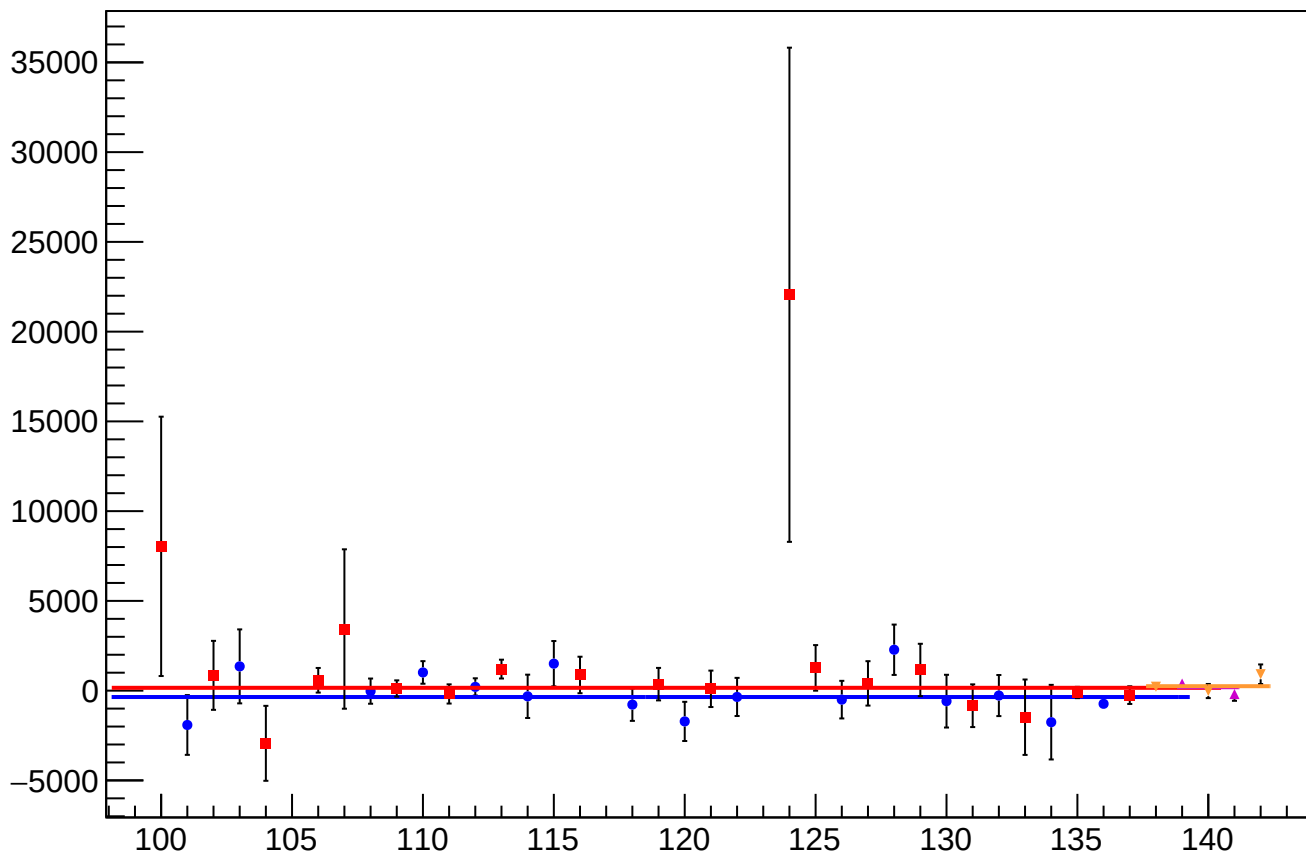
Right: 1289.984+/-0.243 χ^2/NDF : 718684.5/34

In: 1294.735+/-0.310 χ^2/NDF : 510011.5/17

Out: 1293.235+/-0.302 χ^2/NDF : 211180.8/21

All: 1293.963+/-0.216 χ^2/NDF : 721204.3/39

asym_atl_avg_atr_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.226 ± 169.971 χ^2/NDF : 18.4/15

Left Out: 247.947 ± 193.660 χ^2/NDF : 2.0/2

Right Out: 157.924 ± 169.665 χ^2/NDF : 15.8/18

Left In: 191.190 ± 223.357 χ^2/NDF : 1.6/1

Left: 223.590 ± 146.320 χ^2/NDF : 3.6/4

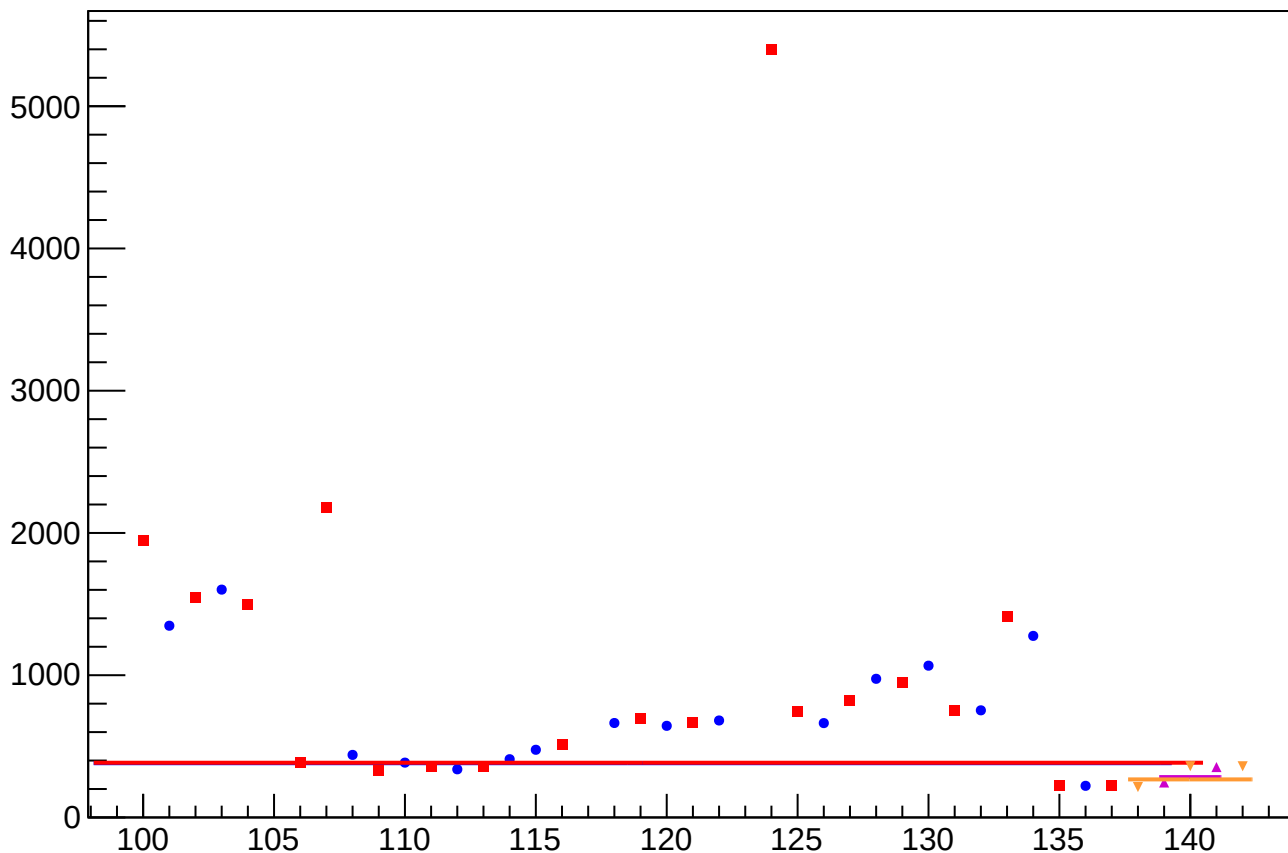
Right: -98.189 ± 120.079 χ^2/NDF : 38.8/34

In: -154.842 ± 135.260 χ^2/NDF : 23.8/17

Out: 197.016 ± 127.616 χ^2/NDF : 17.9/21

All: 31.310 ± 92.823 χ^2/NDF : 45.3/39

asym_atl_avg_atr_avg_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 381.349+/-0.120 χ^2/NDF : 4317922.6/15

Left Out: 267.504+/-0.137 χ^2/NDF : 265674.6/2

Right Out: 384.651+/-0.120 χ^2/NDF : 4560208.6/18

Left In: 283.807+/-0.158 χ^2/NDF : 107020.9/1

Left: 274.500+/-0.103 χ^2/NDF : 378778.3/4

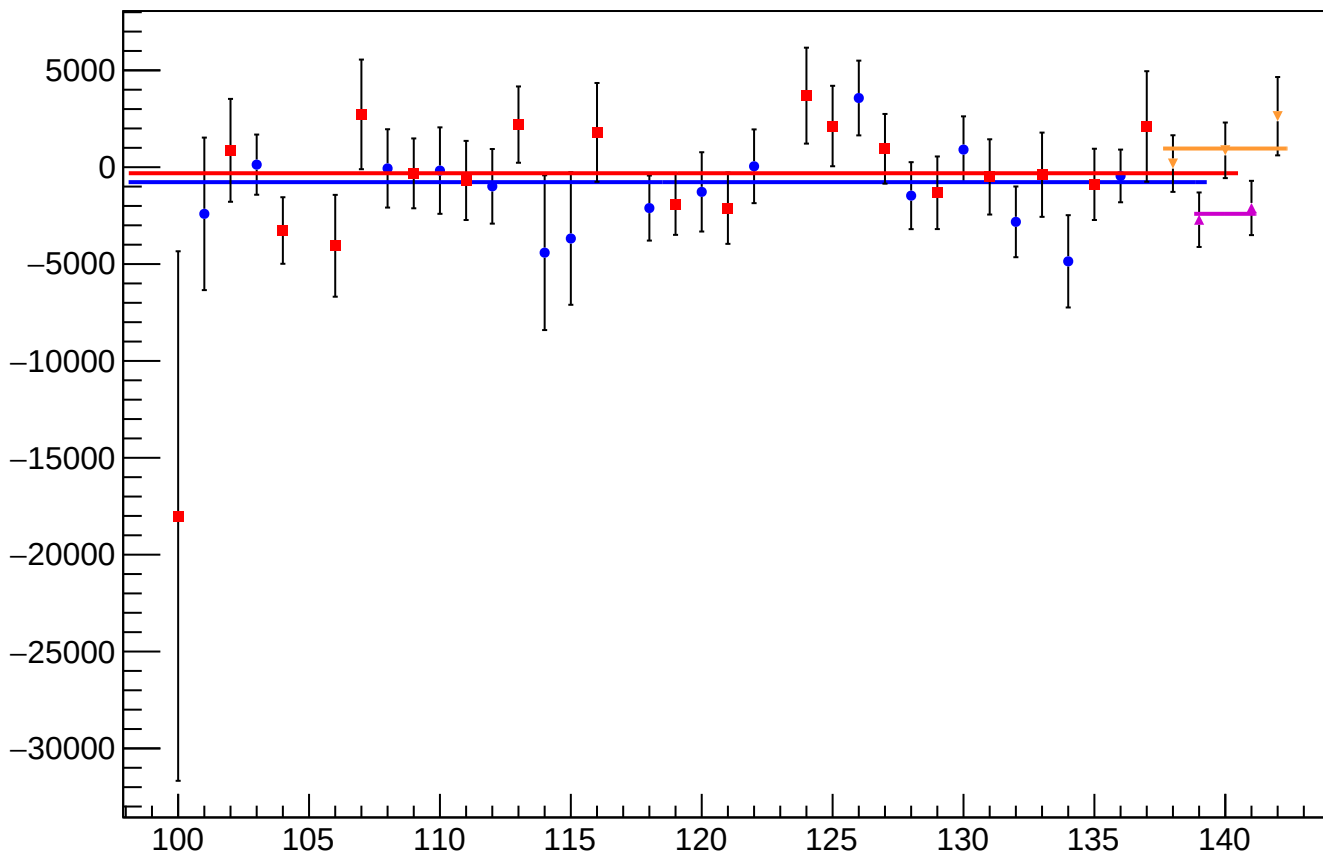
Right: 383.003+/-0.085 χ^2/NDF : 8878509.2/34

In: 345.578+/-0.096 χ^2/NDF : 4666493.7/17

Out: 333.780+/-0.090 χ^2/NDF : 5239923.4/21

All: 339.336+/-0.066 χ^2/NDF : 9914466.7/39

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -771.501+/-489.602 χ^2/NDF : 13.6/15

Left Out: 963.458+/-913.258 χ^2/NDF : 1.0/2

Right Out: -311.419+/-482.642 χ^2/NDF : 17.9/18

Left In: -2406.560+/-992.473 χ^2/NDF : 0.1/1

Left: -581.711+/-672.033 χ^2/NDF : 7.3/4

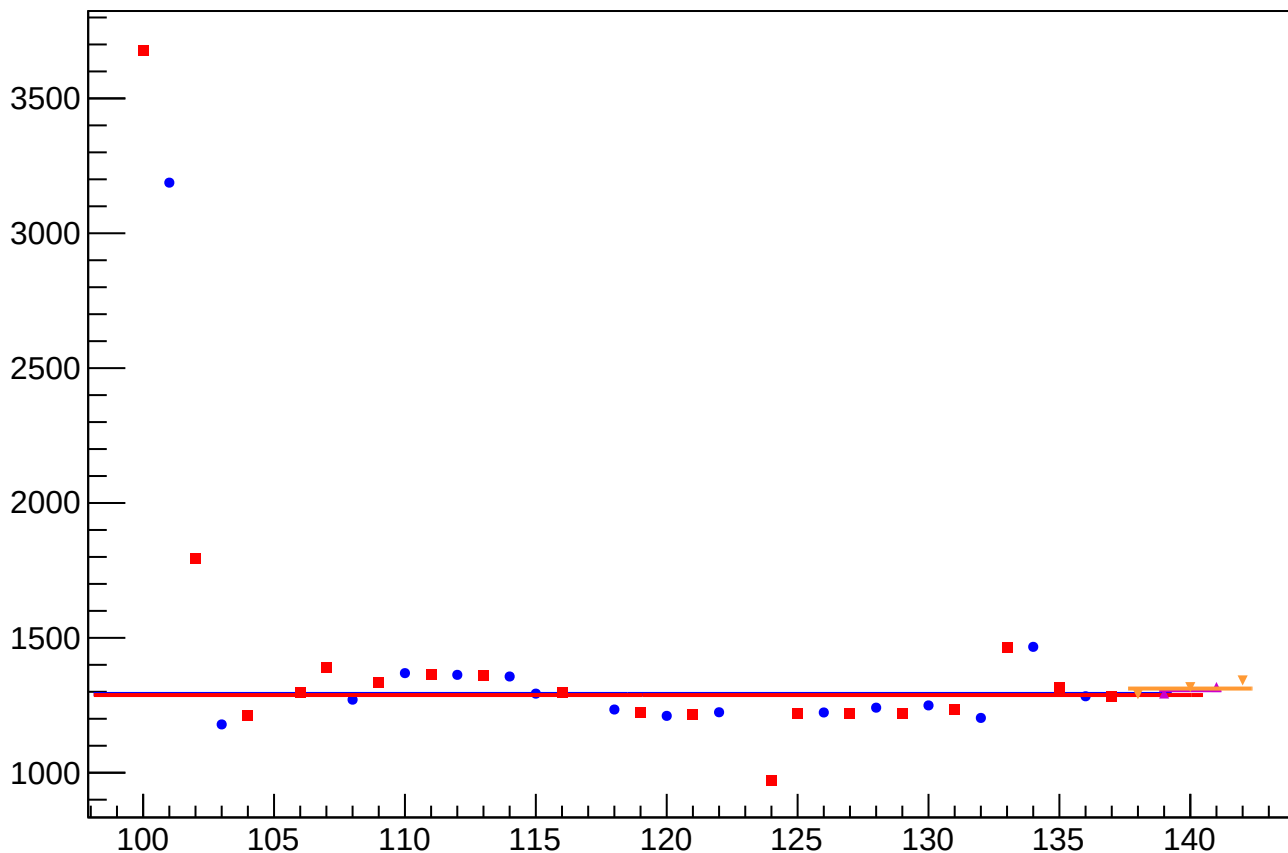
Right: -538.167+/-343.714 χ^2/NDF : 32.0/34

In: -1091.528+/-439.081 χ^2/NDF : 15.9/17

Out: -33.089+/-426.717 χ^2/NDF : 20.4/21

All: -547.196+/-306.012 χ^2/NDF : 39.3/39

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1292.038+/-0.346 χ^2/NDF : 509406.2/15

Left Out: 1312.020+/-0.646 χ^2/NDF : 889.4/2

Right Out: 1287.988+/-0.341 χ^2/NDF : 209209.1/18

Left In: 1305.816+/-0.702 χ^2/NDF : 295.2/1

Left: 1309.175+/-0.475 χ^2/NDF : 1227.0/4

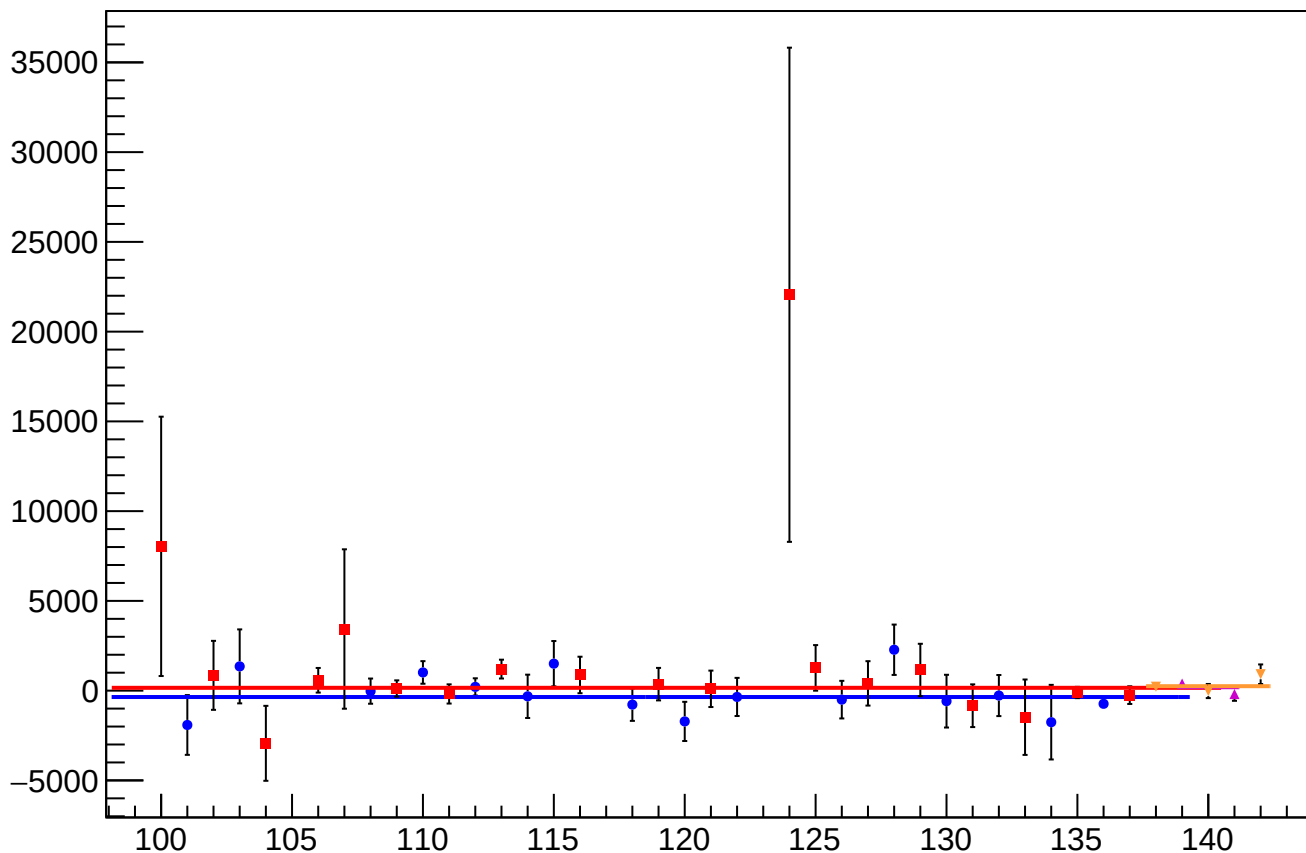
Right: 1289.984+/-0.243 χ^2/NDF : 718684.7/34

In: 1294.735+/-0.310 χ^2/NDF : 510011.5/17

Out: 1293.235+/-0.302 χ^2/NDF : 211181.1/21

All: 1293.963+/-0.216 χ^2/NDF : 721204.6/39

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.226+/-169.973 χ^2/NDF : 18.4/15

Left Out: 247.959+/-193.668 χ^2/NDF : 2.0/2

Right Out: 157.929+/-169.667 χ^2/NDF : 15.8/18

Left In: 191.194+/-223.367 χ^2/NDF : 1.6/1

Left: 223.598+/-146.326 χ^2/NDF : 3.6/4

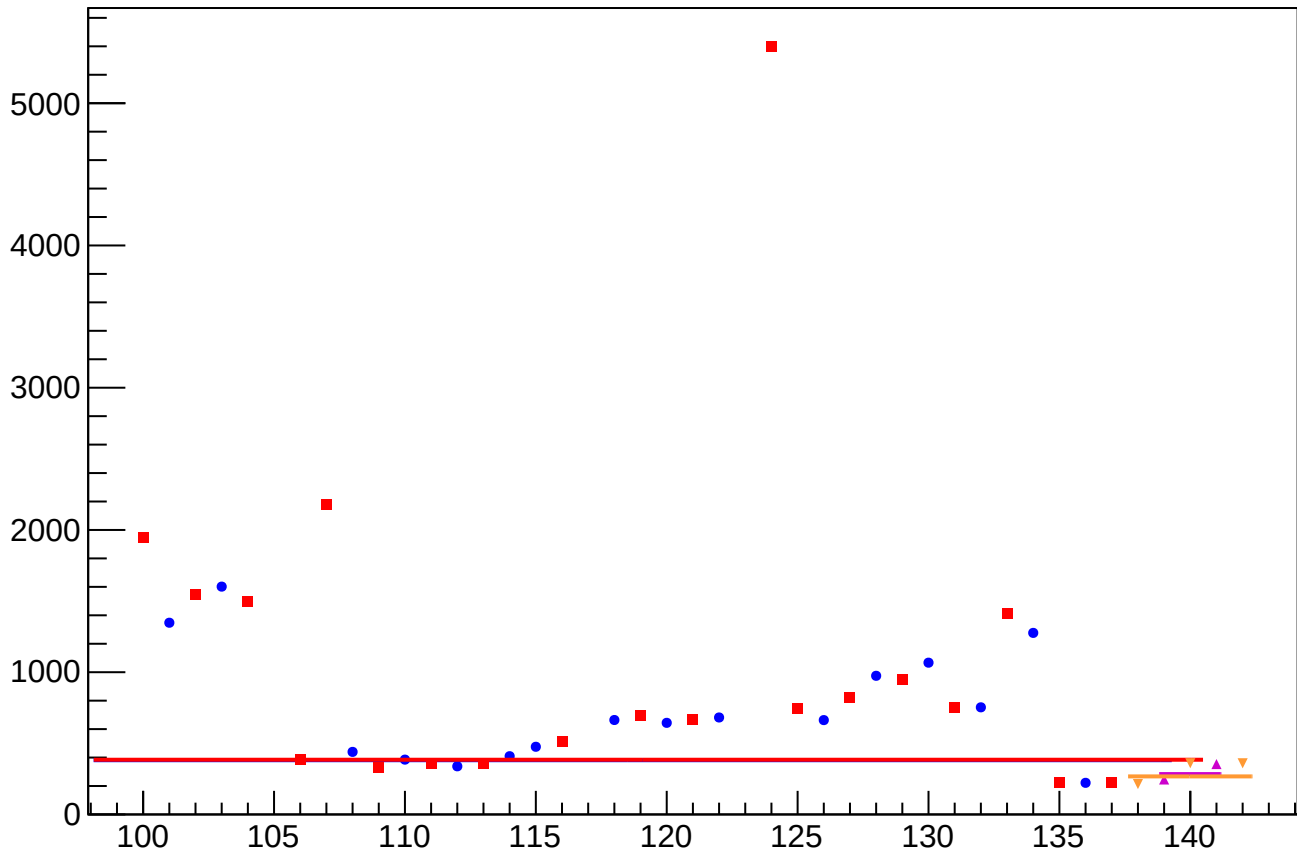
Right: -98.185+/-120.081 χ^2/NDF : 38.8/34

In: -154.847+/-135.264 χ^2/NDF : 23.8/17

Out: 197.022+/-127.620 χ^2/NDF : 17.9/21

All: 31.311+/-92.826 χ^2/NDF : 45.3/39

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 381.359+/-0.120 χ^2/NDF : 4317737.3/15

Left Out: 267.517+/-0.137 χ^2/NDF : 265626.9/2

Right Out: 384.658+/-0.120 χ^2/NDF : 4560068.3/18

Left In: 283.821+/-0.158 χ^2/NDF : 106991.7/1

Left: 274.514+/-0.103 χ^2/NDF : 378701.3/4

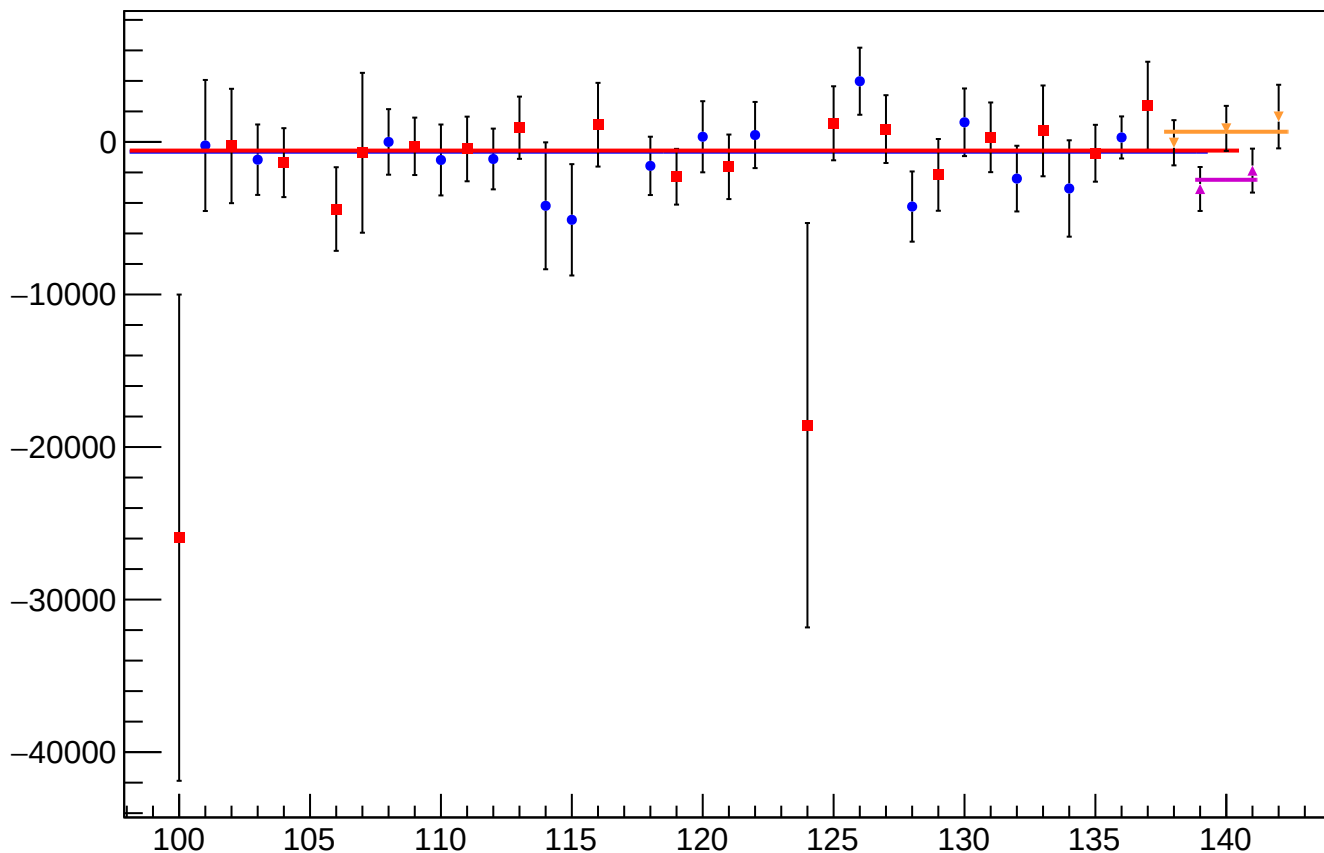
Right: 383.012+/-0.085 χ^2/NDF : 8878183.1/34

In: 345.591+/-0.096 χ^2/NDF : 4666244.0/17

Out: 333.792+/-0.090 χ^2/NDF : 5239671.5/21

All: 339.349+/-0.066 χ^2/NDF : 9913965.6/39

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -640.824+/-564.366 χ^2/NDF : 12.5/15

Left Out: 668.200+/-935.151 χ^2/NDF : 0.5/2

Right Out: -567.254+/-566.774 χ^2/NDF : 11.3/18

Left In: -2481.984+/-1018.961 χ^2/NDF : 0.3/1

Left: -772.032+/-688.978 χ^2/NDF : 6.0/4

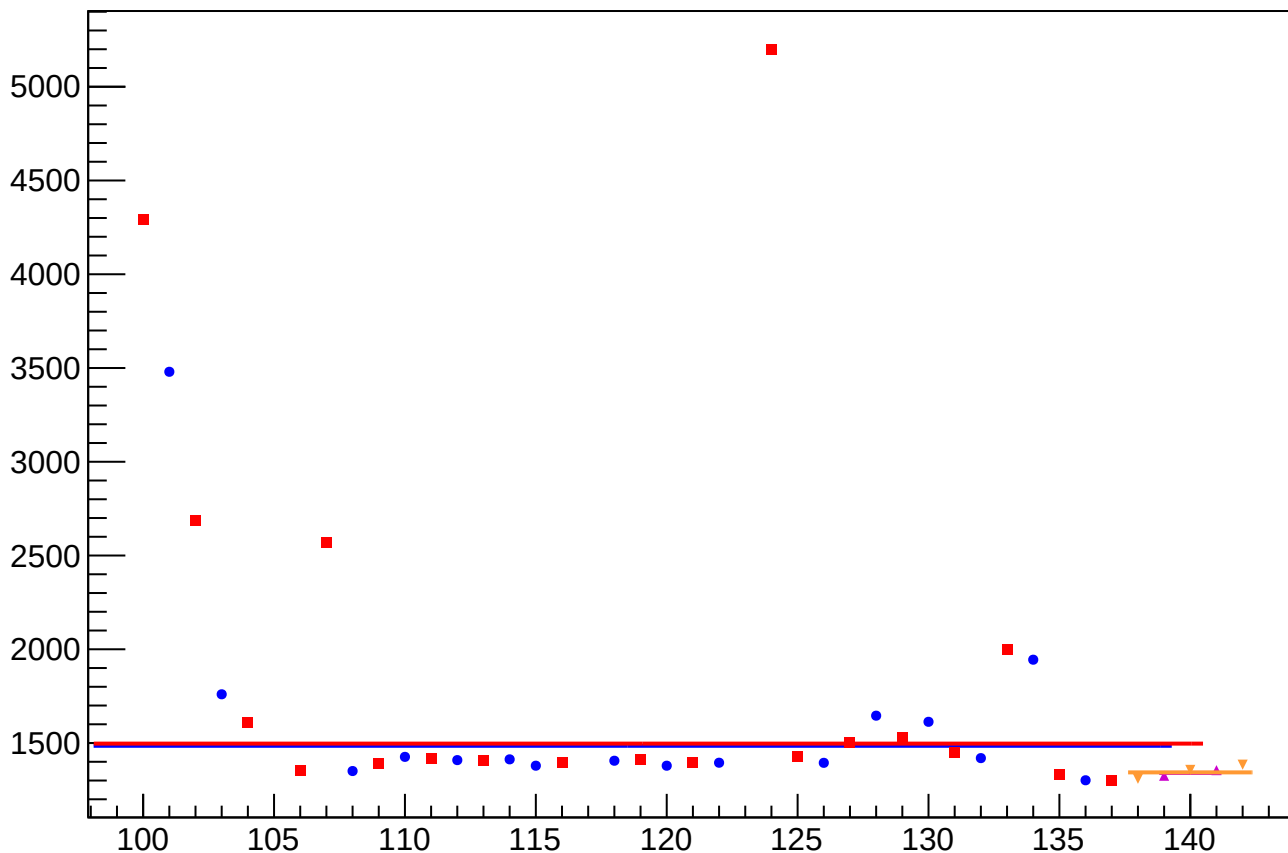
Right: -604.196+/-399.916 χ^2/NDF : 23.8/34

In: -1073.040+/-493.699 χ^2/NDF : 15.3/17

Out: -235.352+/-484.700 χ^2/NDF : 13.1/21

All: -646.492+/-345.872 χ^2/NDF : 29.9/39

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1485.370+/-0.399 χ^2/NDF : 584470.1/15

Left Out: 1343.446+/-0.661 χ^2/NDF :2012.8/2

Right Out: 1496.865+/-0.401 χ^2/NDF : 623292.7/18

Left In: 1340.532+/-0.721 χ^2/NDF :427.7/1

Left: 1342.114+/-0.487 χ^2/NDF : 2449.3/4

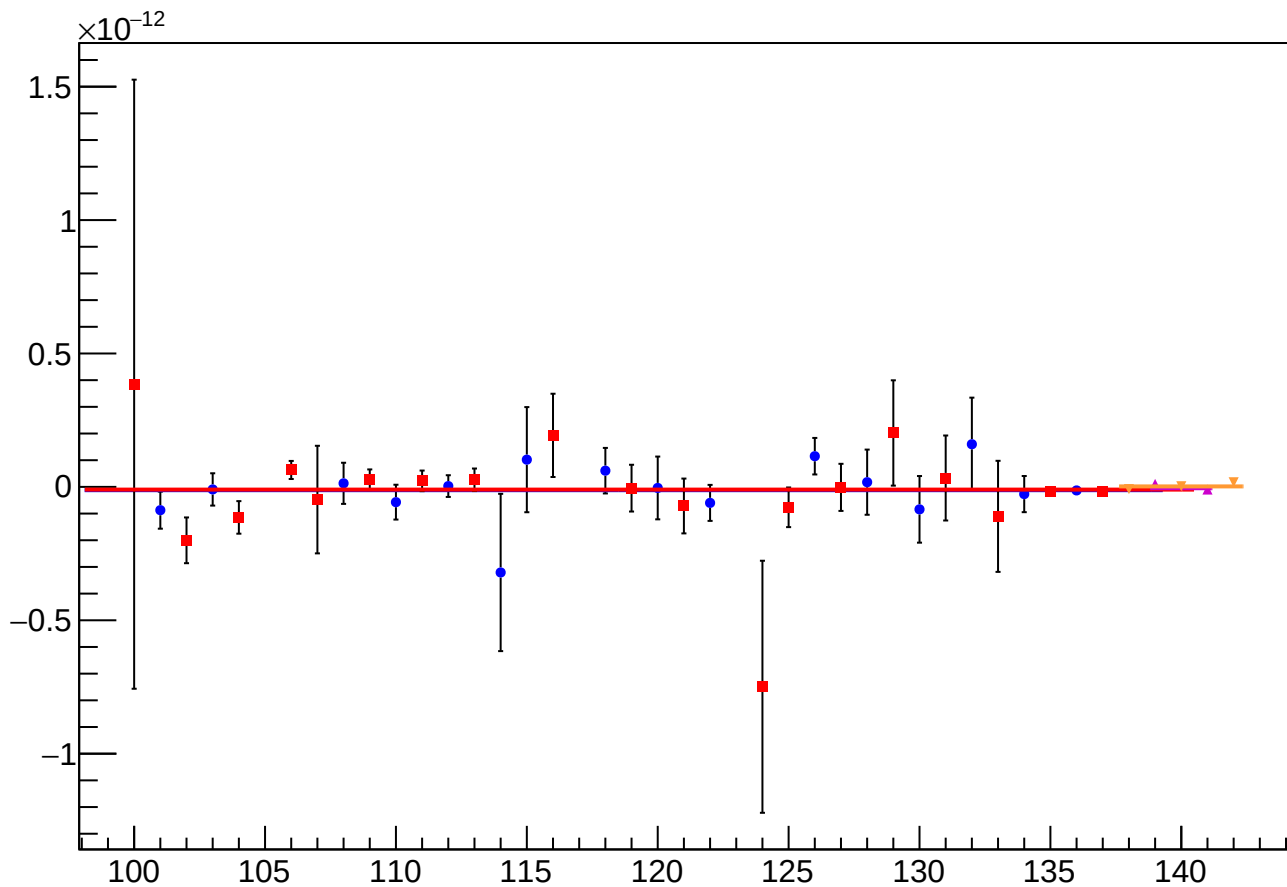
Right: 1491.093+/-0.283 χ^2/NDF : 1208175.9/34

In: 1451.369+/-0.349 χ^2/NDF :615820.8/17

Out: 1455.650+/-0.343 χ^2/NDF :664674.5/21

All: 1453.549+/-0.245 χ^2/NDF : 1280571.9/39

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 9.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3.2/2

Right Out: -0.000+/-0.000 χ^2/NDF : 22.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 2.9/1

Left: -0.000+/-0.000 χ^2/NDF : 7.2/4

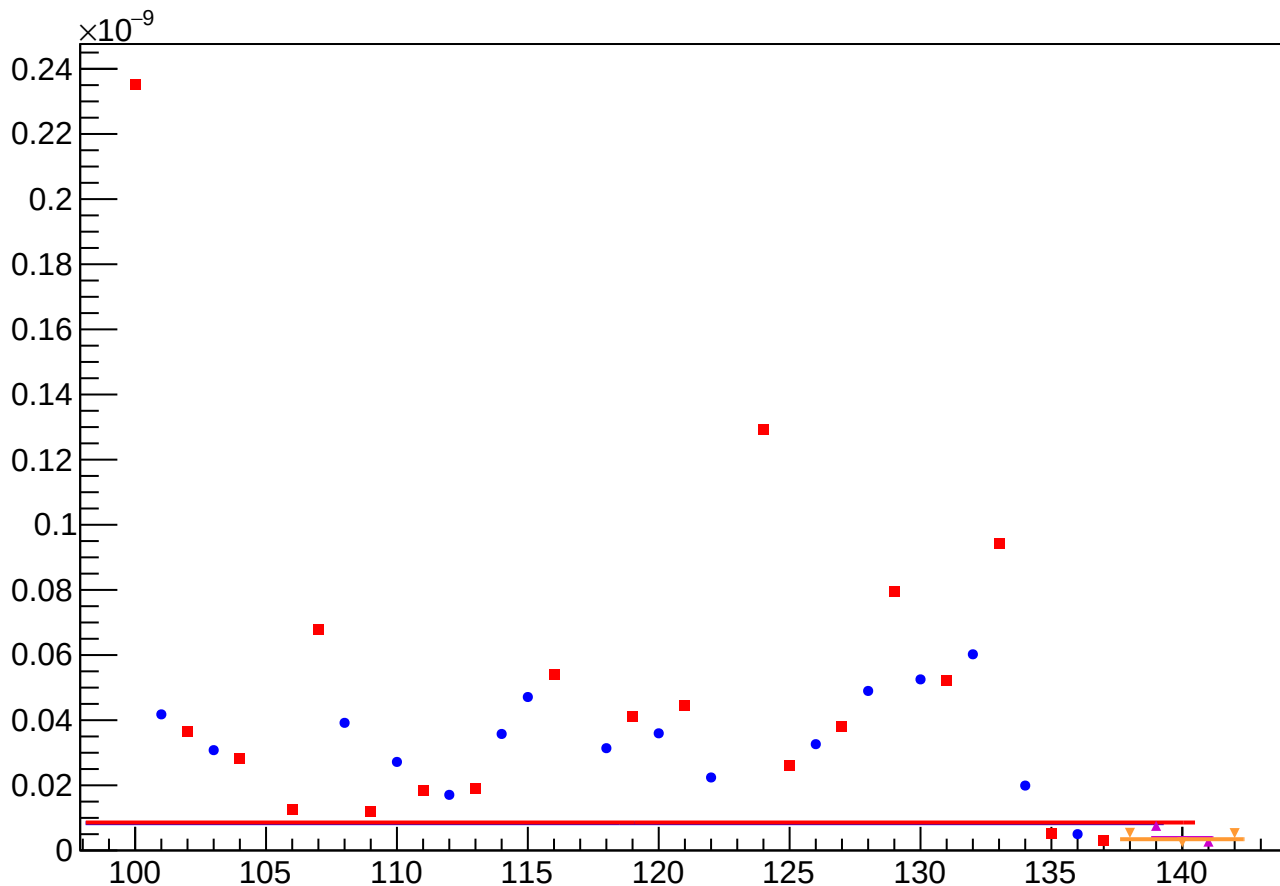
Right: -0.000+/-0.000 χ^2/NDF : 31.8/34

In: -0.000+/-0.000 χ^2/NDF : 13.0/17

Out: -0.000+/-0.000 χ^2/NDF : 27.3/21

All: -0.000+/-0.000 χ^2/NDF : 41.9/39

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3059657.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 231006.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3348571.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 314996.8/1

Left: 0.000+/-0.000 χ^2/NDF : 552635.3/4

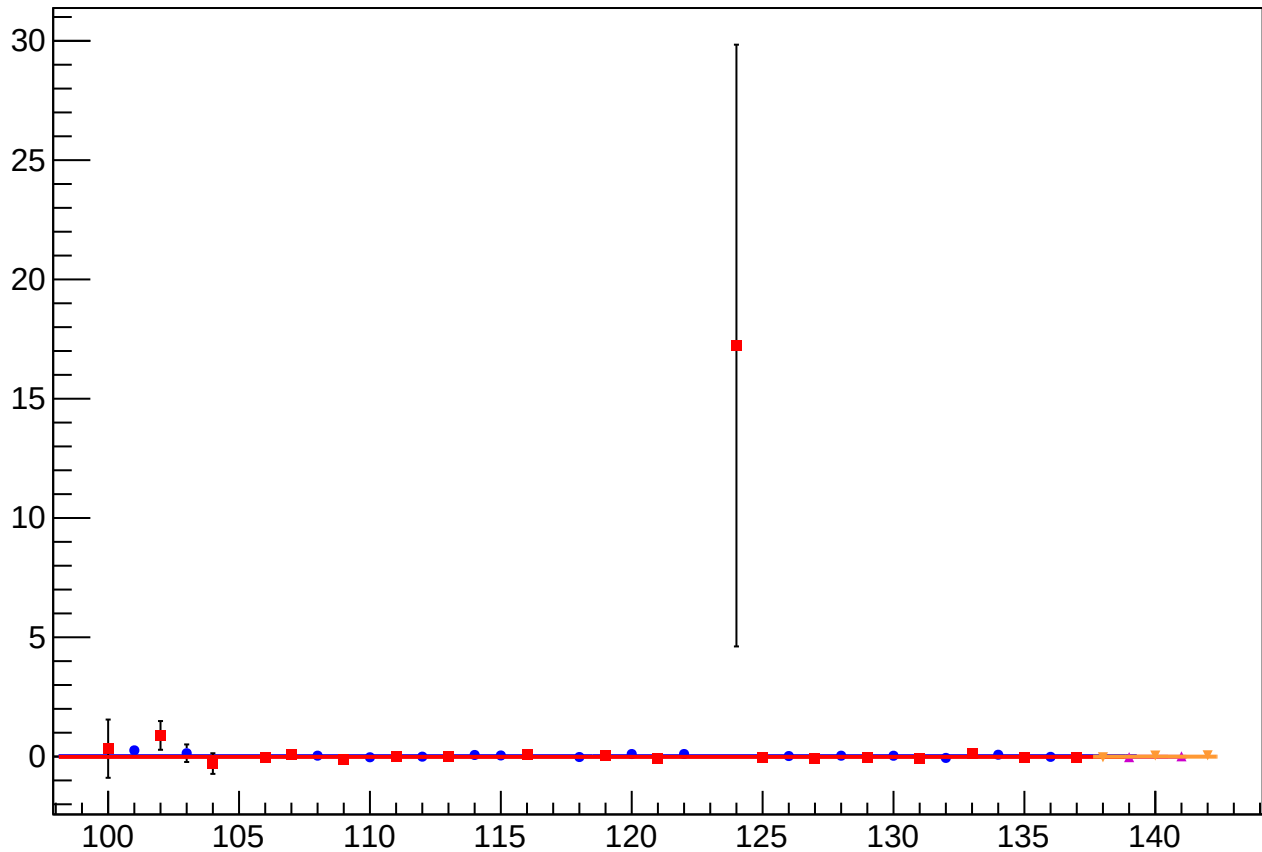
Right: 0.000+/-0.000 χ^2/NDF : 6408892.5/34

In: 0.000+/-0.000 χ^2/NDF : 3882672.1/17

Out: 0.000+/-0.000 χ^2/NDF : 4235322.1/21

All: 0.000+/-0.000 χ^2/NDF : 8163403.2/39

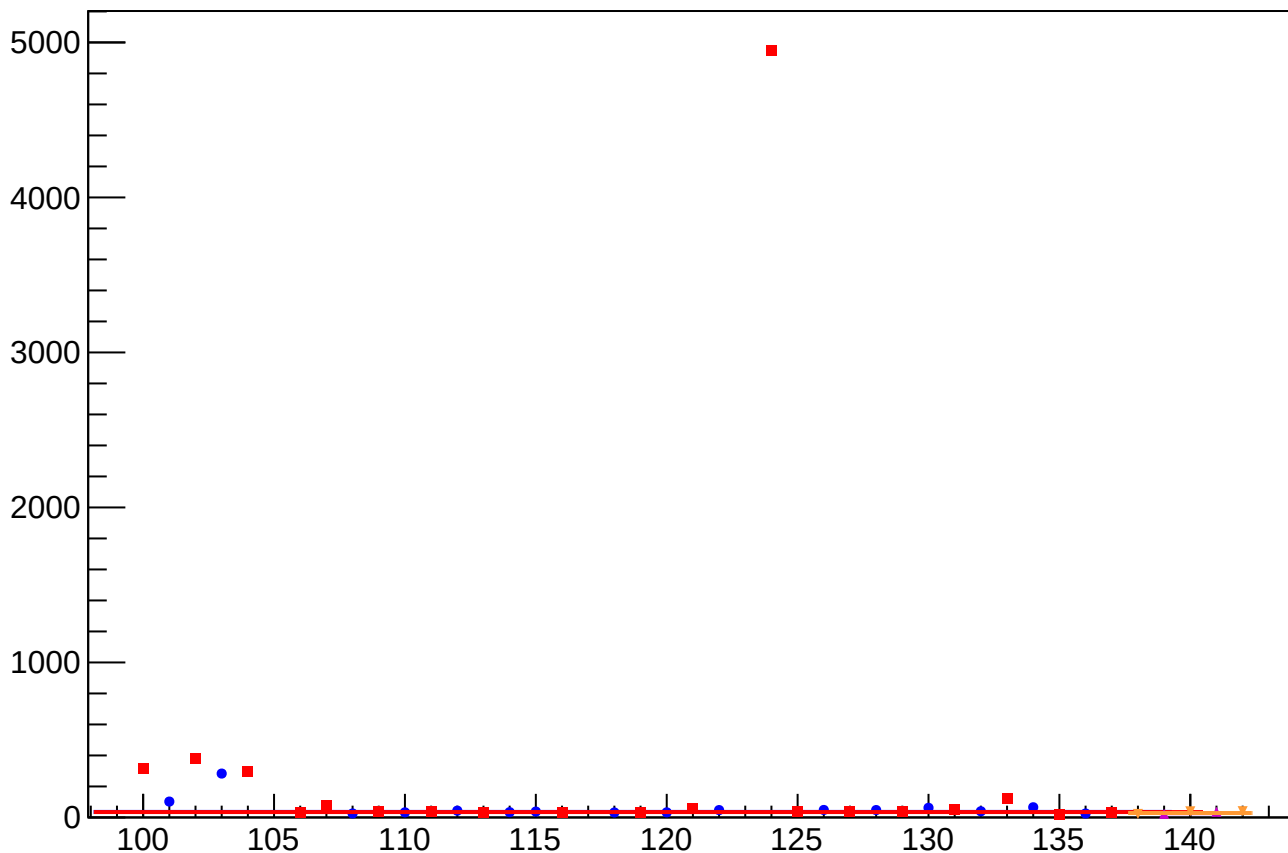
asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 ± 0.015 $\chi^2/\text{NDF}: 11.5/15$
 Left Out: -0.003 ± 0.022 $\chi^2/\text{NDF}: 2.7/2$
 Right Out: -0.014 ± 0.016 $\chi^2/\text{NDF}: 16.0/18$
 Left In: -0.013 ± 0.024 $\chi^2/\text{NDF}: 0.5/1$

Left: -0.008 ± 0.016 $\chi^2/\text{NDF}: 3.2/4$
 Right: 0.002 ± 0.011 $\chi^2/\text{NDF}: 29.4/34$
 In: 0.008 ± 0.013 $\chi^2/\text{NDF}: 13.0/17$
 Out: -0.010 ± 0.013 $\chi^2/\text{NDF}: 18.9/21$
 All: -0.001 ± 0.009 $\chi^2/\text{NDF}: 32.9/39$

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.742 $\pm$ 0.011 χ^2 /NDF: 2264790.8/15

Left Out: 28.564 $\pm$ 0.016 χ^2 /NDF: 272597.1/2

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 27.832 $\pm$ 0.017 χ^2 /NDF: 137553.8/1

Left: 28.229 $\pm$ 0.012 χ^2 /NDF: 411146.3/4

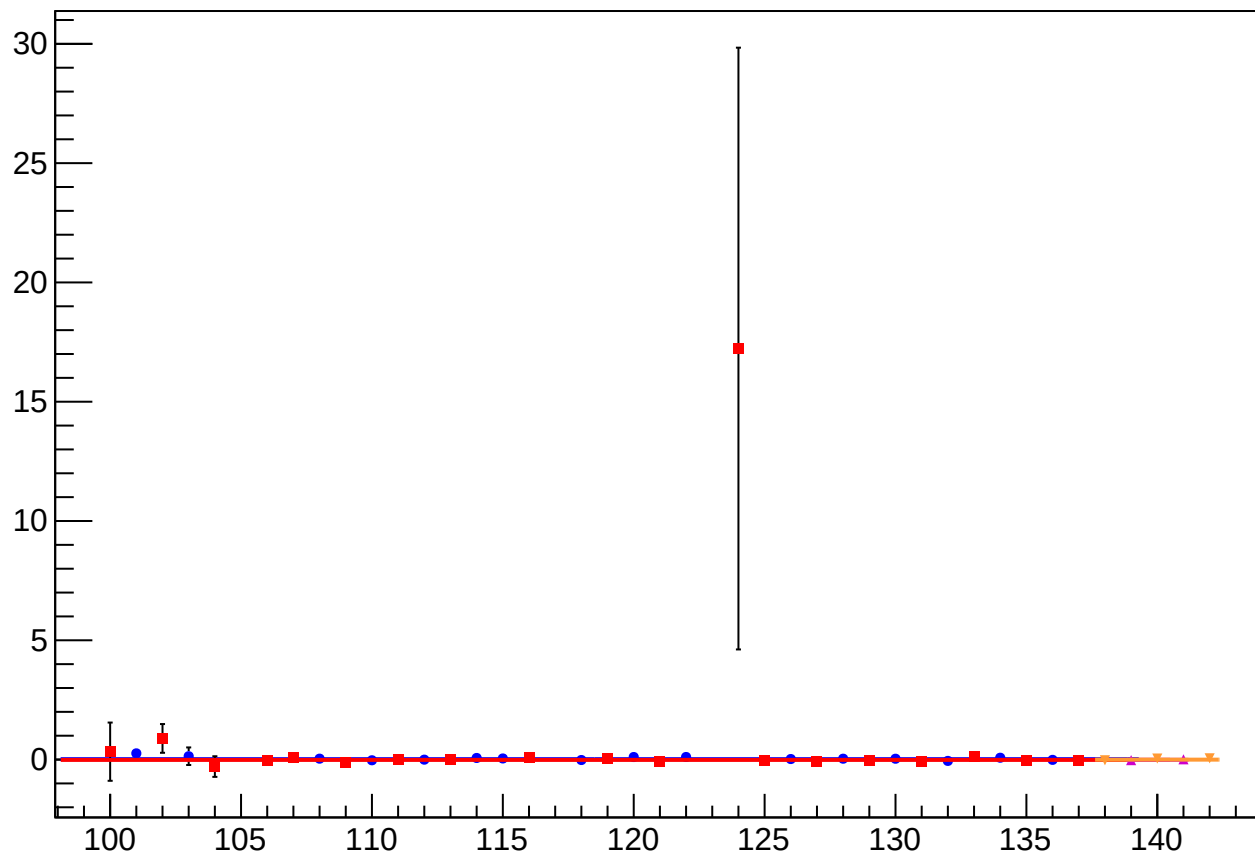
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 33.449 $\pm$ 0.009 χ^2 /NDF: 2554400.1/17

Out: 32.734 $\pm$ 0.009 χ^2 /NDF: 3292133.5/21

All: 33.085 $\pm$ 0.006 χ^2 /NDF: 5849605.9/39

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.015 χ^2/NDF : 11.5/15

Left Out: -0.003+/-0.022 χ^2/NDF : 2.7/2

Right Out: -0.014+/-0.016 χ^2/NDF : 16.0/18

Left In: -0.013+/-0.024 χ^2/NDF : 0.5/1

Left: -0.008+/-0.016 χ^2/NDF : 3.2/4

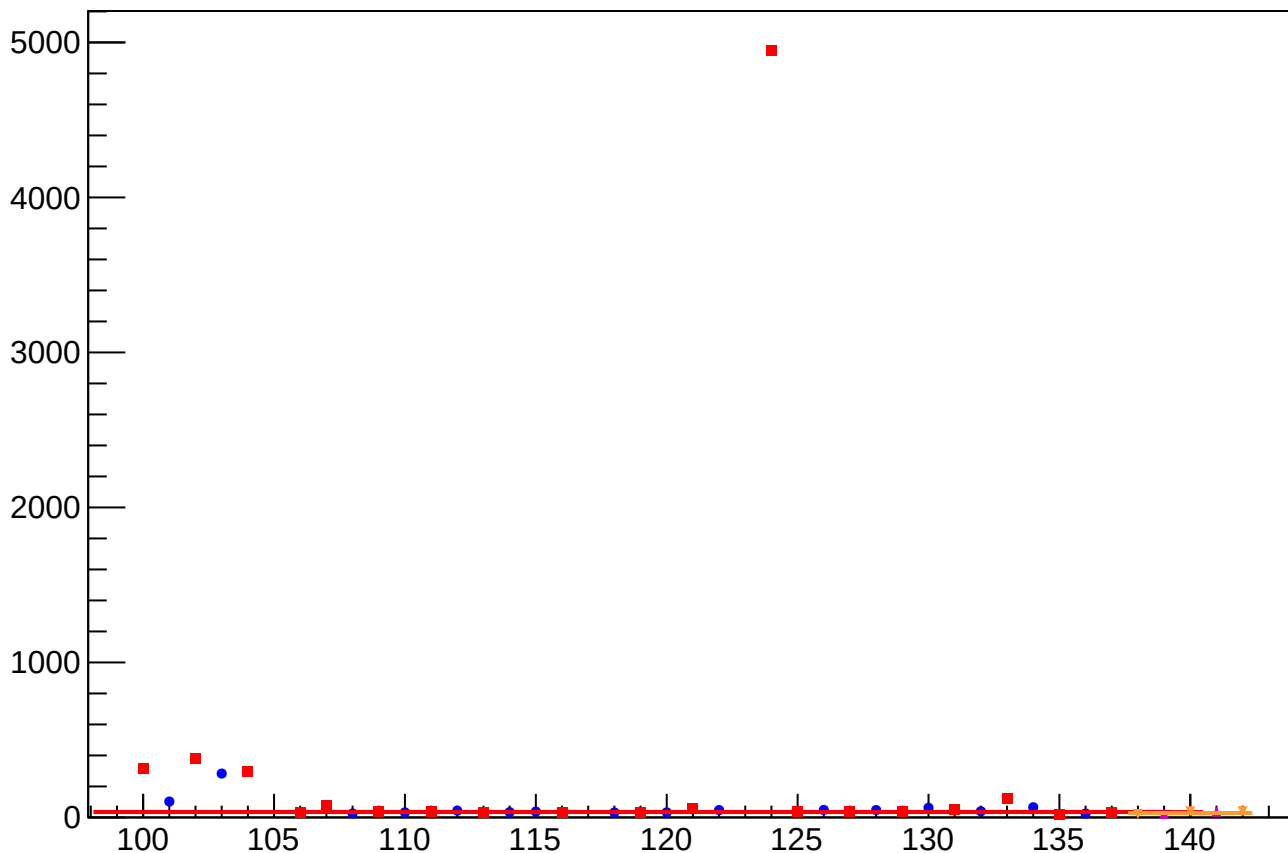
Right: 0.002+/-0.011 χ^2/NDF : 29.4/34

In: 0.008+/-0.013 χ^2/NDF : 13.0/17

Out: -0.010+/-0.013 χ^2/NDF : 18.9/21

All: -0.001+/-0.009 χ^2/NDF : 32.9/39

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.742 $\pm$ 0.011 χ^2 /NDF: 2264790.8/15

Left Out: 28.564 $\pm$ 0.016 χ^2 /NDF:272597.1/2

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 27.832 $\pm$ 0.017 χ^2 /NDF:137553.8/1

Left: 28.229 $\pm$ 0.012 χ^2 /NDF: 411146.3/4

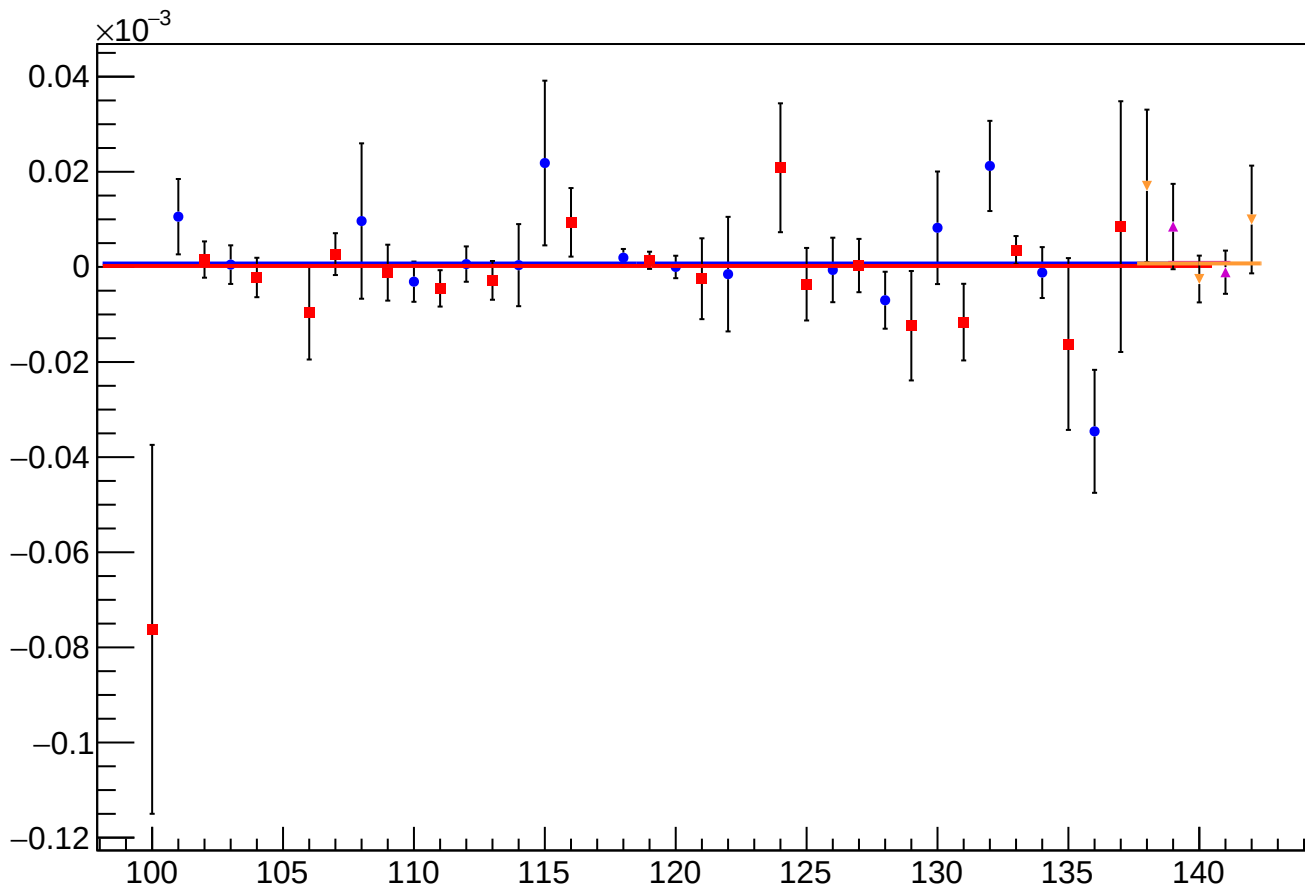
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 33.449 $\pm$ 0.009 χ^2 /NDF:2554400.1/17

Out: 32.734 $\pm$ 0.009 χ^2 /NDF:3292133.5/21

All: 33.085 $\pm$ 0.006 χ^2 /NDF: 5849605.9/39

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.9/1

Left: 0.000+/-0.000 χ^2/NDF : 3.1/4

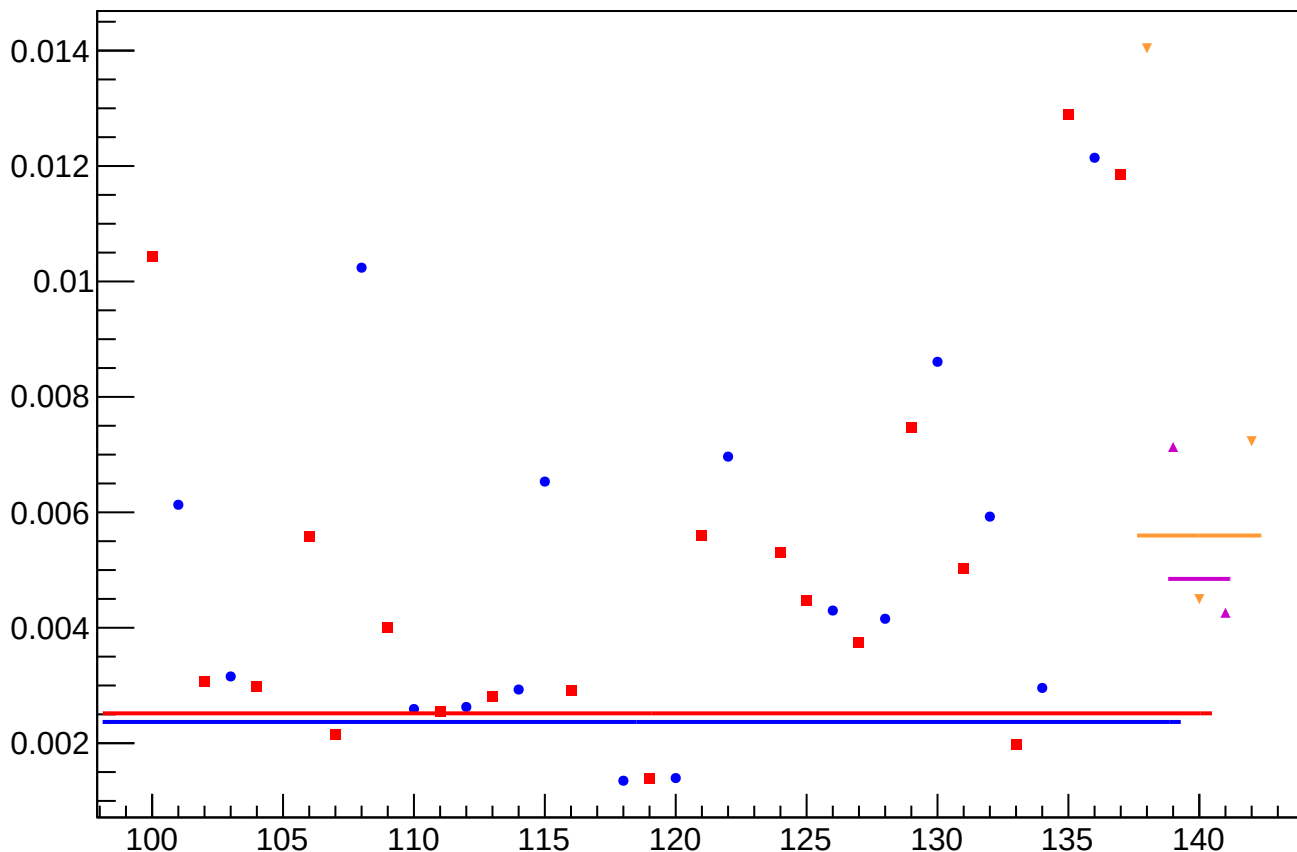
Right: 0.000+/-0.000 χ^2/NDF : 37.3/34

In: 0.000+/-0.000 χ^2/NDF : 20.0/17

Out: 0.000+/-0.000 χ^2/NDF : 20.2/21

All: 0.000+/-0.000 χ^2/NDF : 40.4/39

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4721602.1/15

Left Out: 0.006+/-0.000 χ^2/NDF : 696638.7/2

Right Out: 0.003+/-0.000 χ^2/NDF : 3397462.9/18

Left In: 0.005+/-0.000 χ^2/NDF : 163119.1/1

Left: 0.005+/-0.000 χ^2/NDF : 891782.0/4

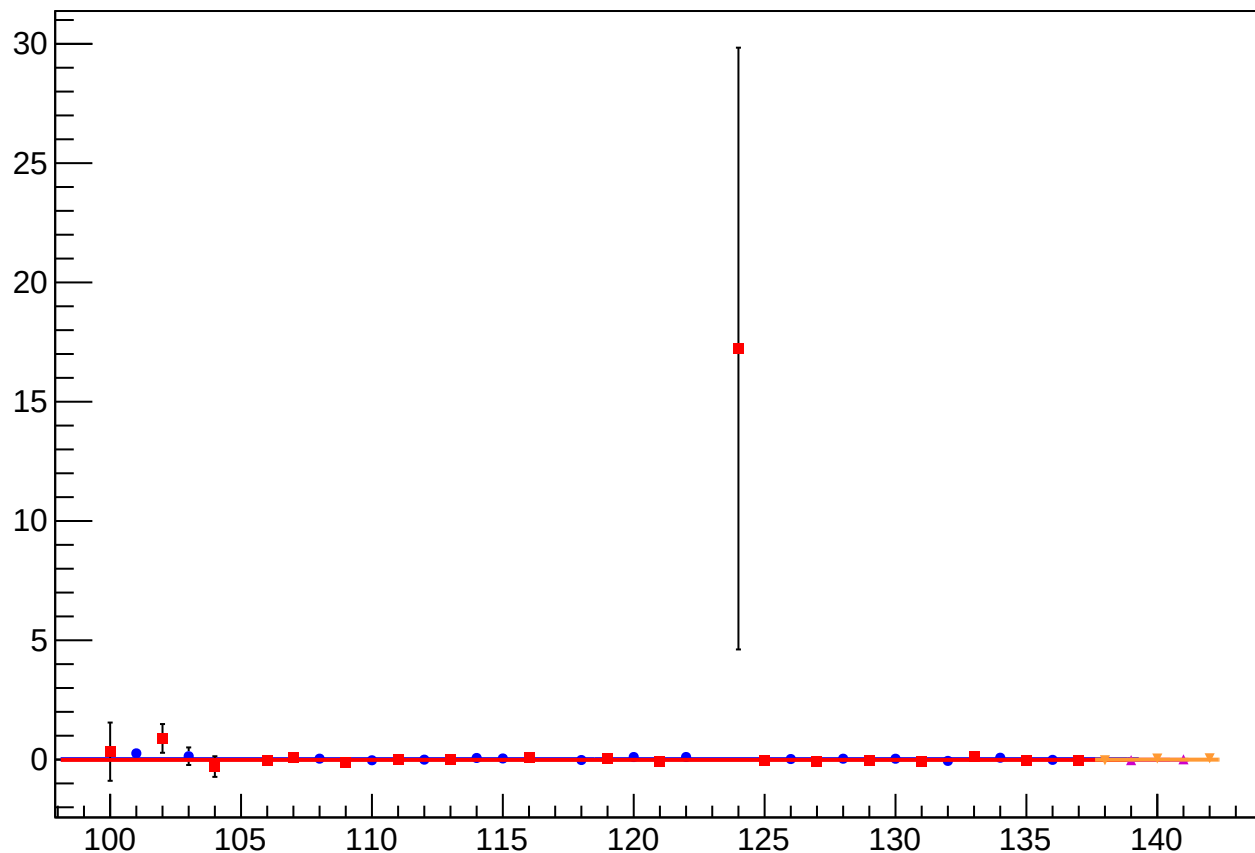
Right: 0.002+/-0.000 χ^2/NDF : 8137943.7/34

In: 0.003+/-0.000 χ^2/NDF : 5580762.7/17

Out: 0.003+/-0.000 χ^2/NDF : 5044135.9/21

All: 0.003+/-0.000 χ^2/NDF : 10645806.3/39

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.015 χ^2 /NDF: 11.5/15

Left Out: -0.003 $\pm$ 0.022 χ^2 /NDF:2.7/2

Right Out: -0.014 $\pm$ 0.016 χ^2 /NDF: 16.0/18

Left In: -0.013 $\pm$ 0.024 χ^2 /NDF:0.5/1

Left: -0.008 $\pm$ 0.016 χ^2 /NDF: 3.2/4

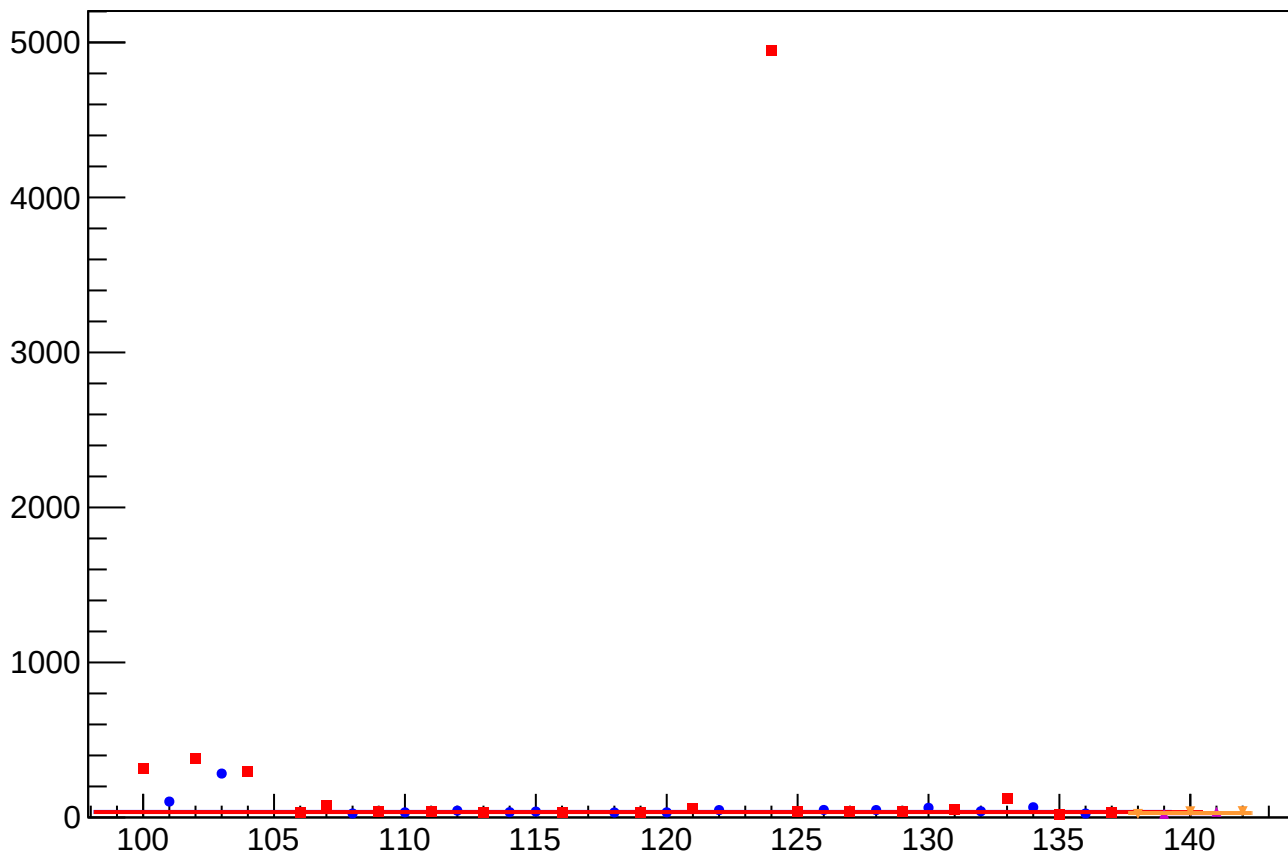
Right: 0.002 $\pm$ 0.011 χ^2 /NDF: 29.4/34

In: 0.008 $\pm$ 0.013 χ^2 /NDF:13.0/17

Out: -0.010 $\pm$ 0.013 χ^2 /NDF:18.9/21

All: -0.001 $\pm$ 0.009 χ^2 /NDF: 32.9/39

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.743+/-0.011 χ^2/NDF : 2264513.9/15

Left Out: 28.563+/-0.016 χ^2/NDF : 272748.3/2

Right Out: 34.798+/-0.011 χ^2/NDF : 2913962.5/18

Left In: 27.827+/-0.017 χ^2/NDF : 137739.1/1

Left: 28.226+/-0.012 χ^2/NDF : 411493.2/4

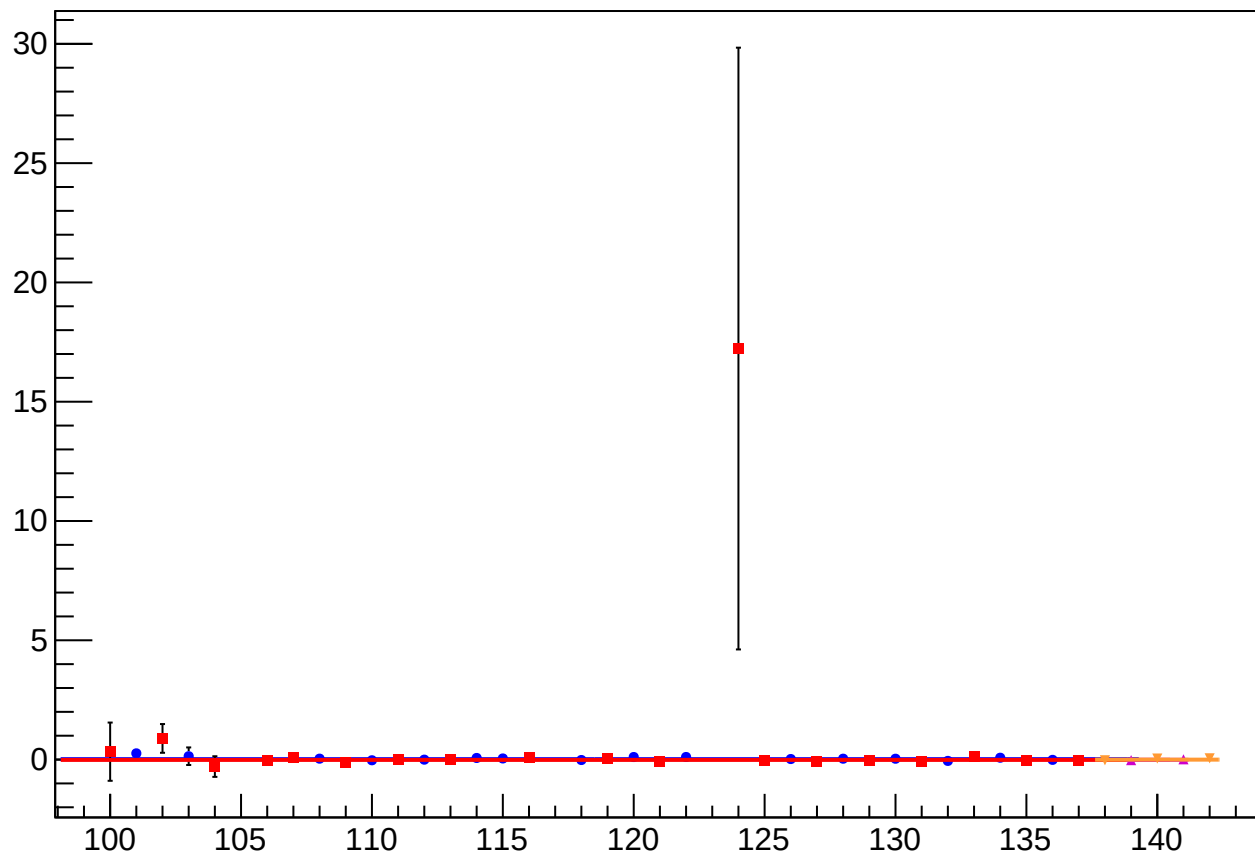
Right: 35.276+/-0.008 χ^2/NDF : 5182182.2/34

In: 33.448+/-0.009 χ^2/NDF : 2554549.3/17

Out: 32.734+/-0.009 χ^2/NDF : 3292157.9/21

All: 33.085+/-0.006 χ^2/NDF : 5849771.3/39

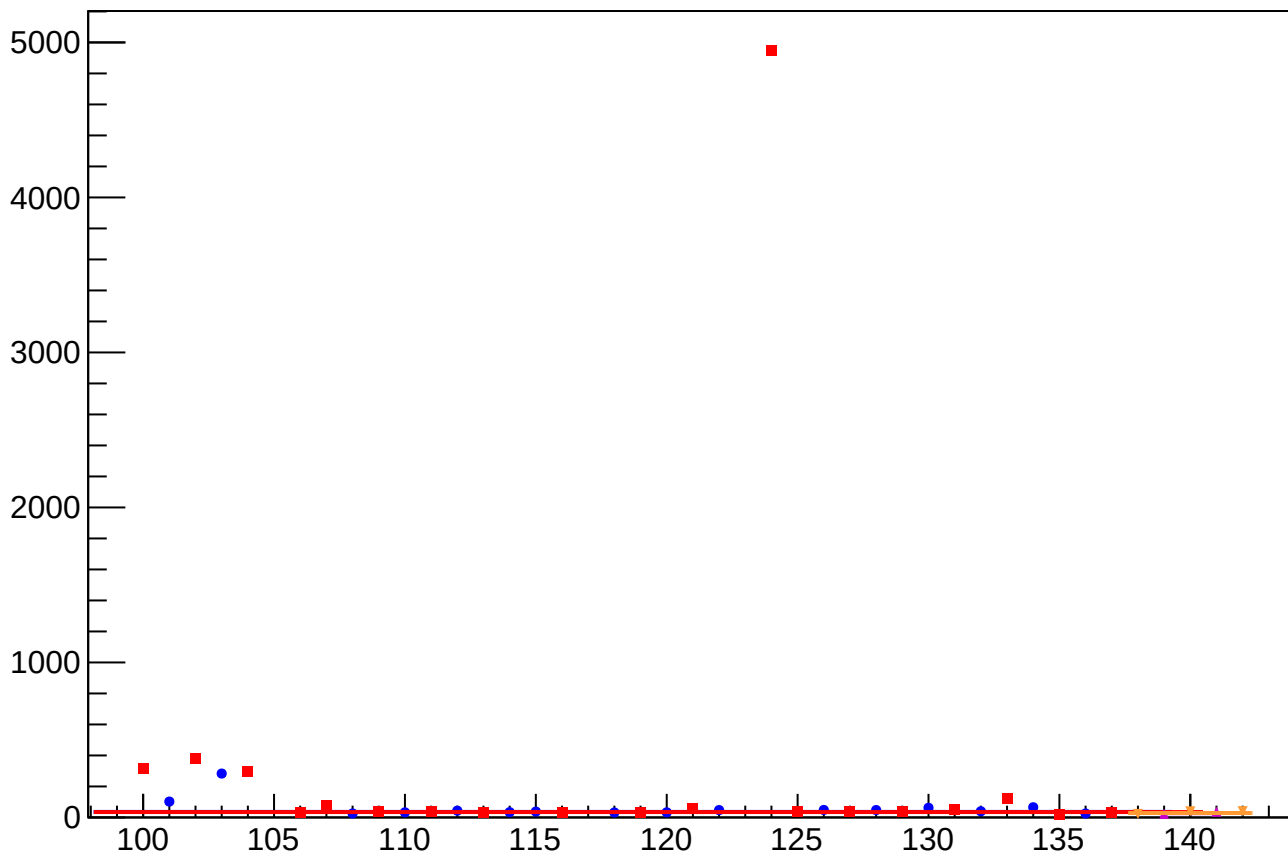
asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 ± 0.015 $\chi^2/\text{NDF}: 11.5/15$
 Left Out: -0.003 ± 0.022 $\chi^2/\text{NDF}: 2.7/2$
 Right Out: -0.014 ± 0.016 $\chi^2/\text{NDF}: 16.0/18$
 Left In: -0.013 ± 0.024 $\chi^2/\text{NDF}: 0.5/1$

Left: -0.008 ± 0.016 $\chi^2/\text{NDF}: 3.2/4$
 Right: 0.002 ± 0.011 $\chi^2/\text{NDF}: 29.4/34$
 In: 0.008 ± 0.013 $\chi^2/\text{NDF}: 13.0/17$
 Out: -0.010 ± 0.013 $\chi^2/\text{NDF}: 18.9/21$
 All: -0.001 ± 0.009 $\chi^2/\text{NDF}: 32.9/39$

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.743+/-0.011 χ^2/NDF : 2264513.9/15

Left Out: 28.563+/-0.016 χ^2/NDF : 272748.3/2

Right Out: 34.798+/-0.011 χ^2/NDF : 2913962.5/18

Left In: 27.827+/-0.017 χ^2/NDF : 137739.1/1

Left: 28.226+/-0.012 χ^2/NDF : 411493.2/4

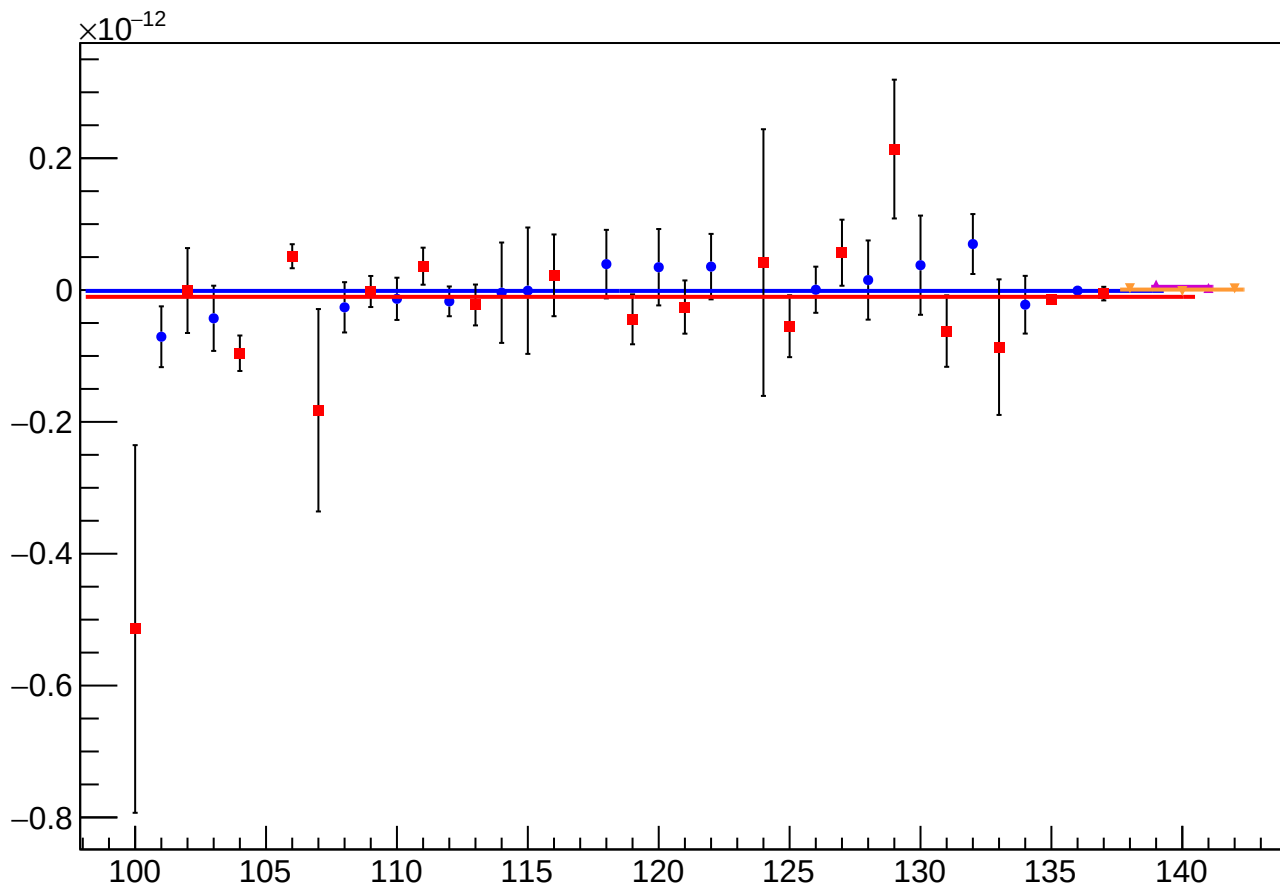
Right: 35.276+/-0.008 χ^2/NDF : 5182182.2/34

In: 33.448+/-0.009 χ^2/NDF : 2554549.3/17

Out: 32.734+/-0.009 χ^2/NDF : 3292157.9/21

All: 33.085+/-0.006 χ^2/NDF : 5849771.3/39

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 8.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :0.6/2

Right Out: -0.000+/-0.000 χ^2/NDF : 39.9/18

Left In: 0.000+/-0.000 χ^2/NDF :0.4/1

Left: 0.000+/-0.000 χ^2/NDF : 1.7/4

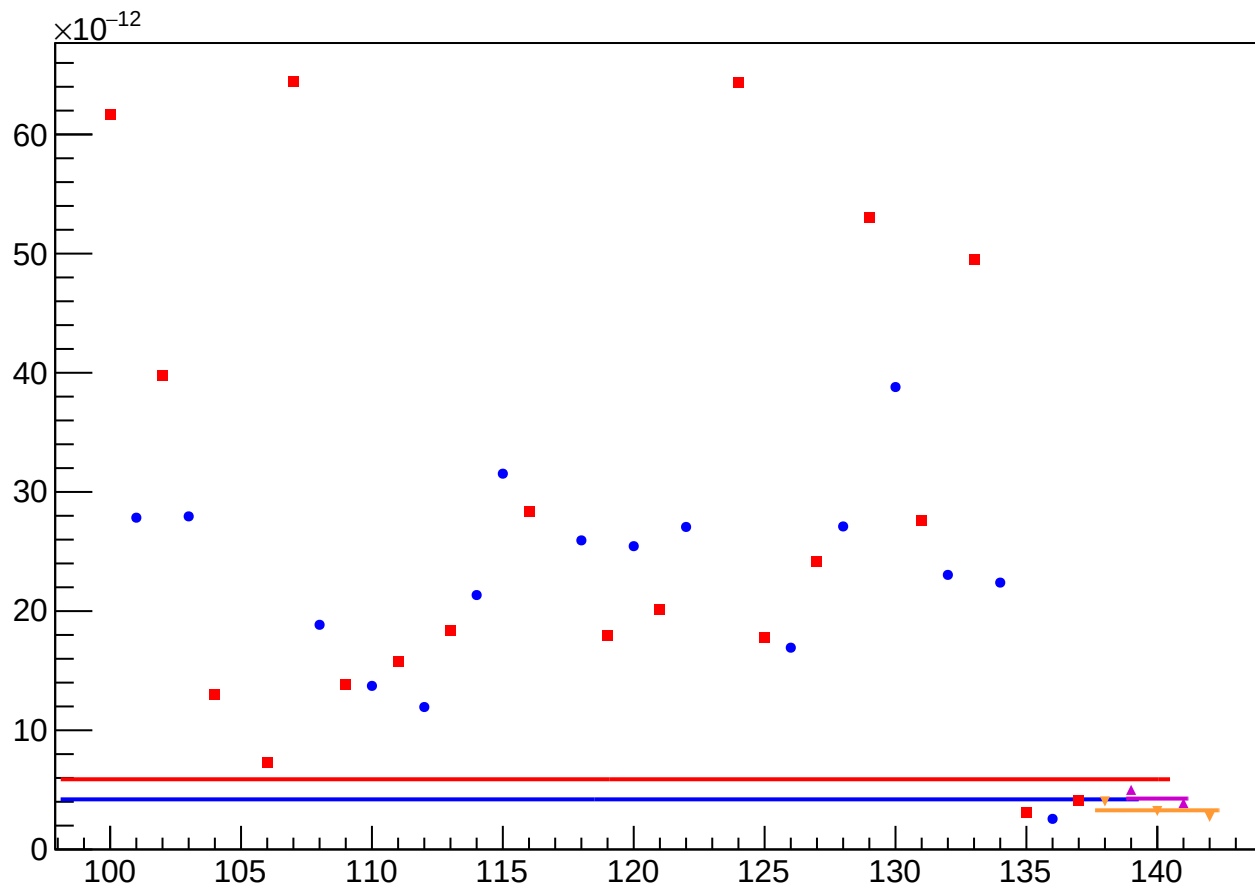
Right: -0.000+/-0.000 χ^2/NDF : 51.3/34

In: 0.000+/-0.000 χ^2/NDF :10.4/17

Out: -0.000+/-0.000 χ^2/NDF :45.3/21

All: -0.000+/-0.000 χ^2/NDF : 57.0/39

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5080225.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 60508.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4860861.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 36200.5/1

Left: 0.000+/-0.000 χ^2/NDF : 181313.4/4

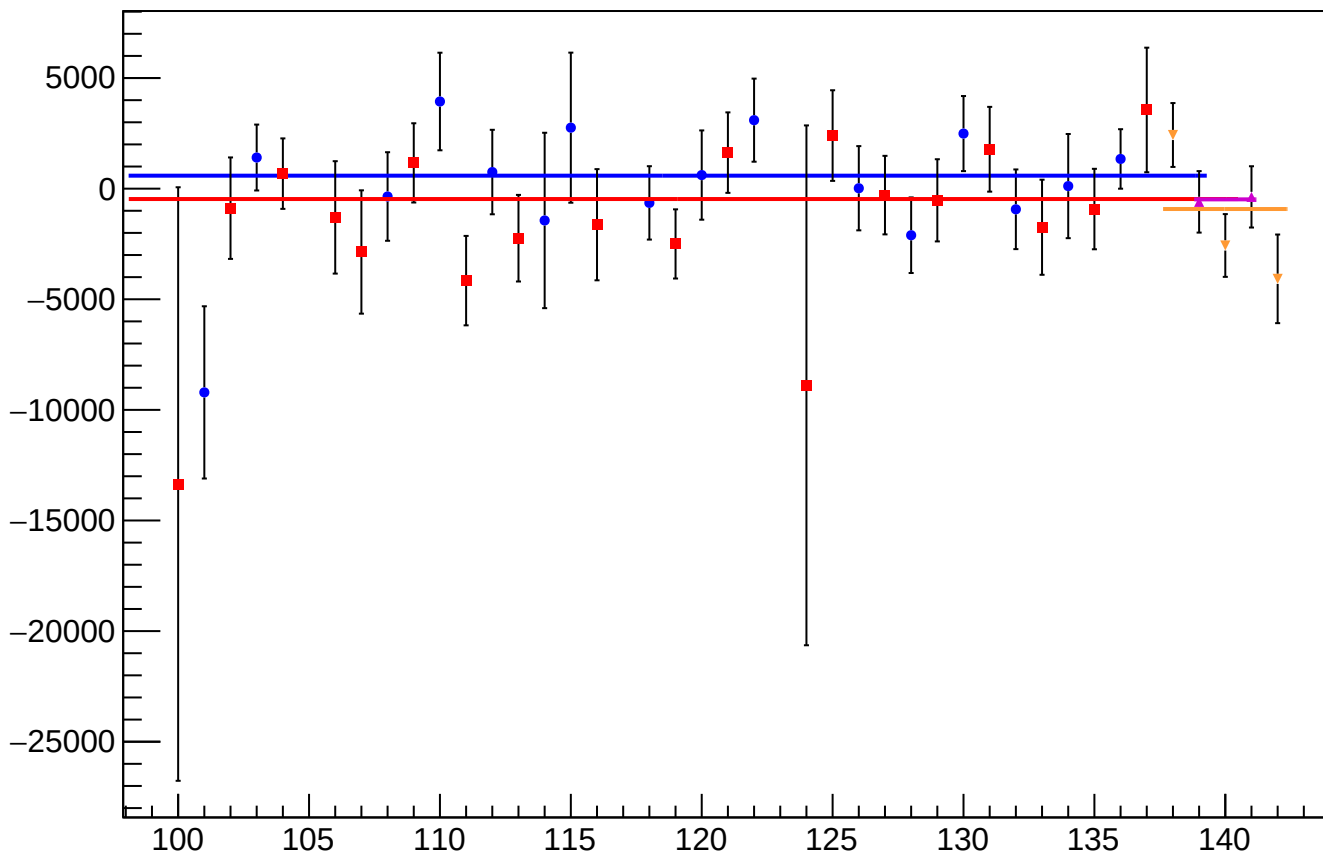
Right: 0.000+/-0.000 χ^2/NDF : 10135954.8/34

In: 0.000+/-0.000 χ^2/NDF : 5116743.1/17

Out: 0.000+/-0.000 χ^2/NDF : 5464403.5/21

All: 0.000+/-0.000 χ^2/NDF : 10585466.4/39

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 586.935+/-482.434 χ^2/NDF : 17.1/15

Left Out: -920.488+/-903.218 χ^2/NDF : 9.2/2

Right Out: -469.012+/-480.516 χ^2/NDF : 16.9/18

Left In: -483.916+/-981.051 χ^2/NDF : 0.0/1

Left: -720.205+/-664.486 χ^2/NDF : 9.3/4

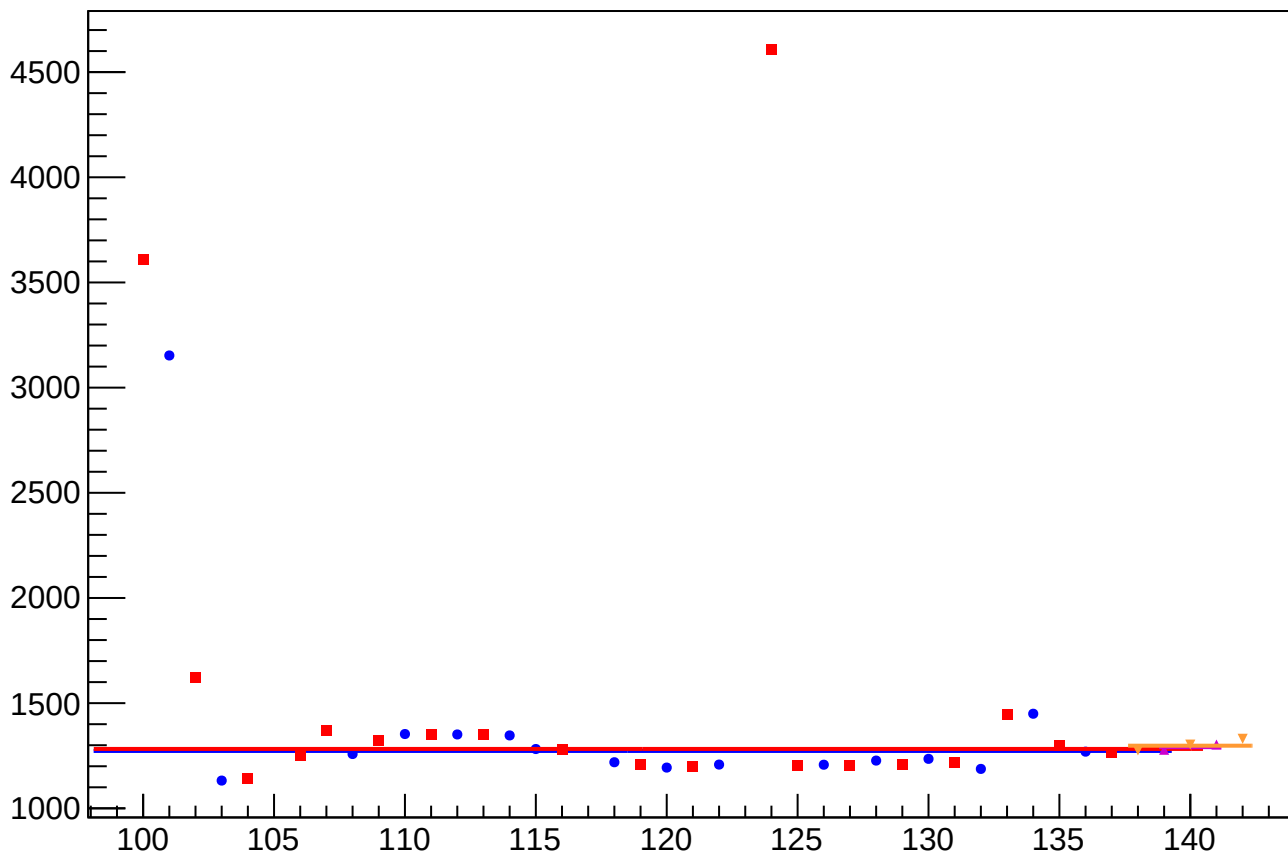
Right: 56.858+/-340.452 χ^2/NDF : 36.3/34

In: 378.407+/-432.921 χ^2/NDF : 18.0/17

Out: -568.605+/-424.218 χ^2/NDF : 26.3/21

All: -104.713+/-302.998 χ^2/NDF : 46.7/39

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1272.804+/-0.341 χ^2/NDF : 519298.2/15

Left Out: 1297.744+/-0.639 χ^2/NDF :1041.7/2

Right Out: 1282.365+/-0.340 χ^2/NDF : 322078.6/18

Left In: 1290.901+/-0.694 χ^2/NDF :316.8/1

Left: 1294.605+/-0.470 χ^2/NDF : 1411.2/4

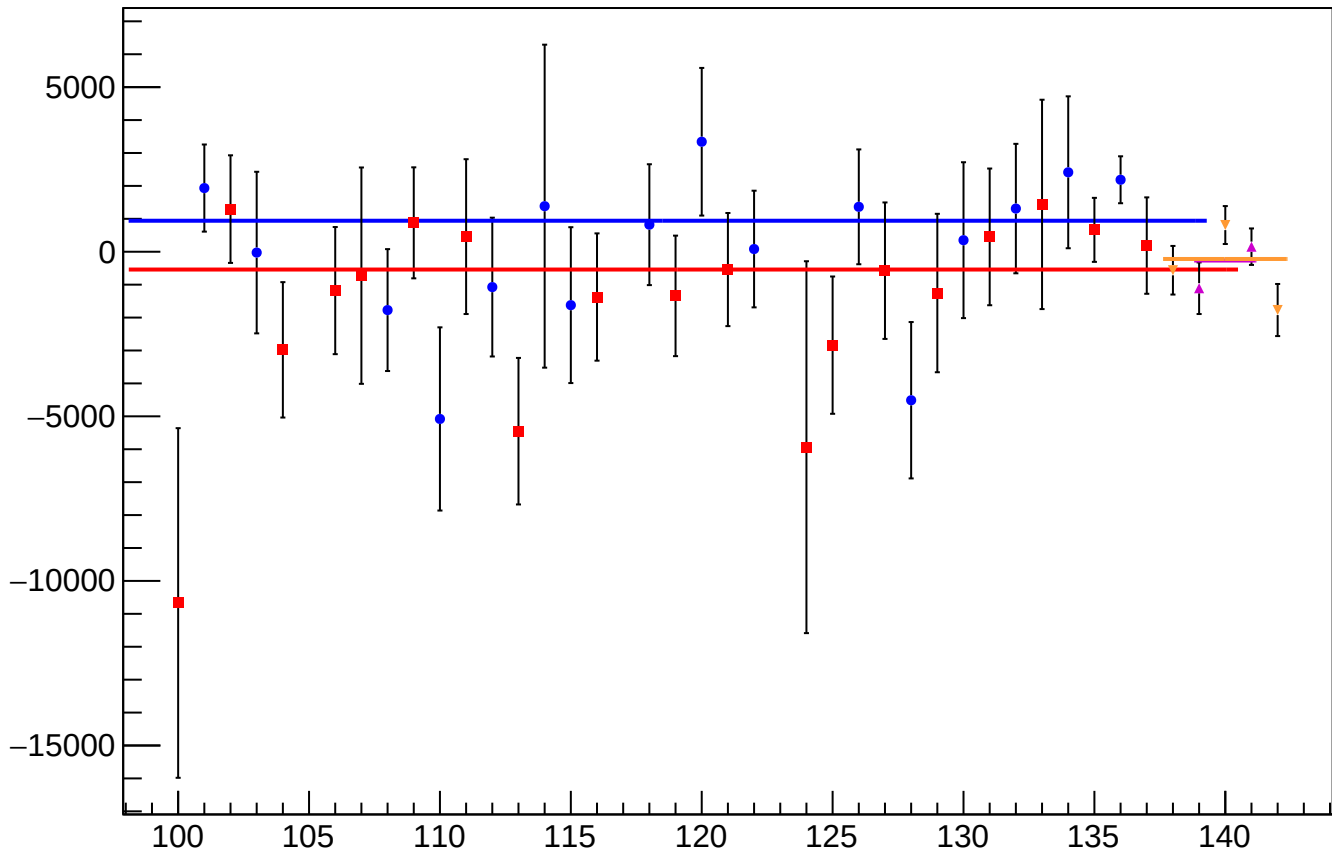
Right: 1277.604+/-0.241 χ^2/NDF : 841771.1/34

In: 1276.328+/-0.306 χ^2/NDF :520163.0/17

Out: 1285.757+/-0.300 χ^2/NDF :323572.2/21

All: 1281.139+/-0.214 χ^2/NDF : 844219.3/39

asym_atl_dd_atr_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 941.759 ± 425.837 $\chi^2/\text{NDF}: 19.9/15$

Left Out: -219.882 ± 394.048 $\chi^2/\text{NDF}: 7.3/2$

Right Out: -540.622 ± 439.905 $\chi^2/\text{NDF}: 17.2/18$

Left In: -266.801 ± 452.548 $\chi^2/\text{NDF}: 1.7/1$

Left: -240.115 ± 297.179 $\chi^2/\text{NDF}: 9.0/4$

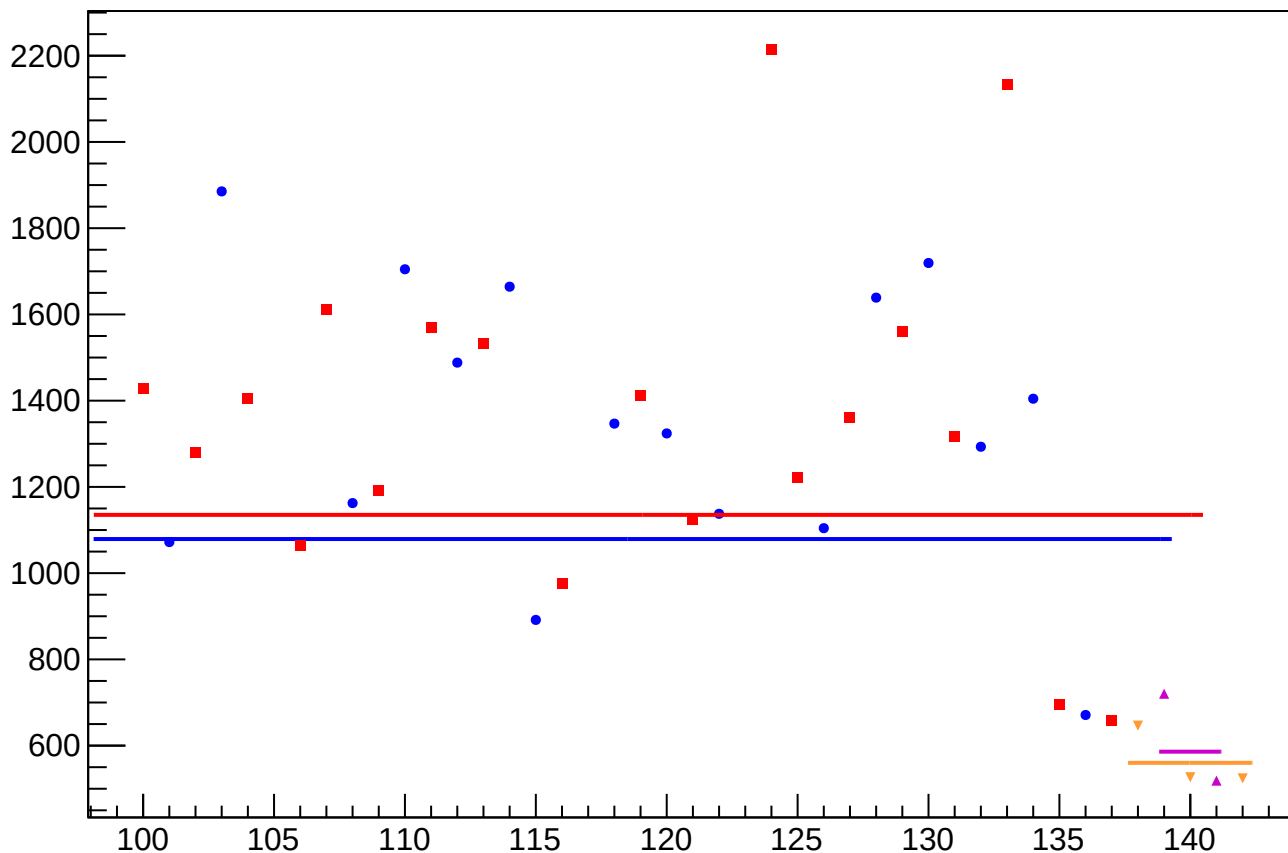
Right: 224.651 ± 305.965 $\chi^2/\text{NDF}: 42.9/34$

In: 374.197 ± 310.125 $\chi^2/\text{NDF}: 25.4/17$

Out: -362.669 ± 293.512 $\chi^2/\text{NDF}: 24.7/21$

All: -14.500 ± 213.176 $\chi^2/\text{NDF}: 53.1/39$

asym_atl_dd_atr_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1079.120+/-0.301 χ^2/NDF : 1482232.0/15

Left Out: 560.114+/-0.279 χ^2/NDF : 38188.8/2

Right Out: 1135.161+/-0.311 χ^2/NDF : 1293082.2/18

Left In: 585.978+/-0.320 χ^2/NDF : 88146.9/1

Left: 571.267+/-0.210 χ^2/NDF : 130051.5/4

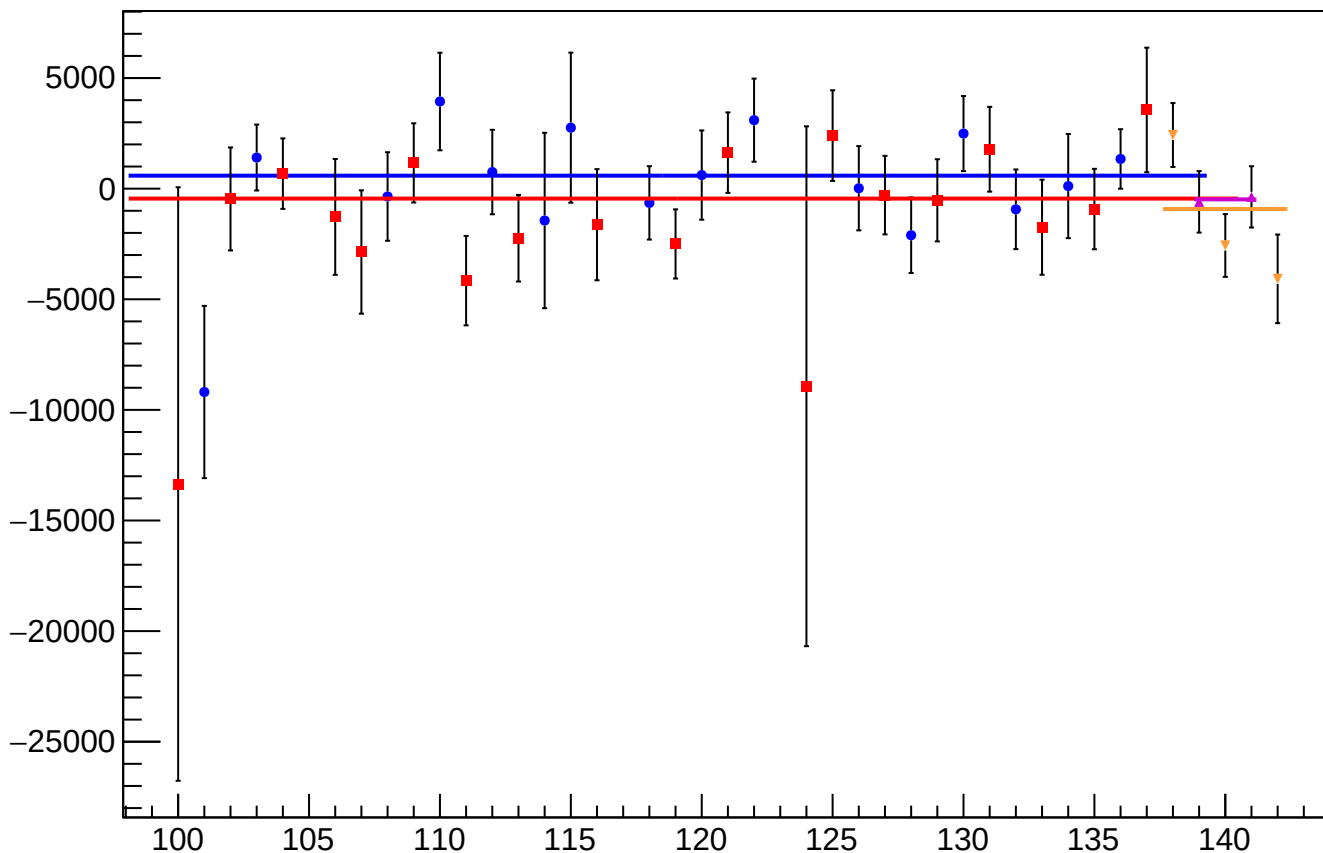
Right: 1106.230+/-0.216 χ^2/NDF : 2792070.7/34

In: 847.531+/-0.219 χ^2/NDF : 2829975.1/17

Out: 816.112+/-0.208 χ^2/NDF : 3227421.2/21

All: 830.958+/-0.151 χ^2/NDF : 6068224.8/39

cor_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 587.254+/-482.434 χ^2/NDF : 17.1/15

Left Out: -920.664+/-903.218 χ^2/NDF : 9.2/2

Right Out: -448.412+/-481.333 χ^2/NDF : 16.8/18

Left In: -483.795+/-981.051 χ^2/NDF : 0.0/1

Left: -720.244+/-664.486 χ^2/NDF : 9.3/4

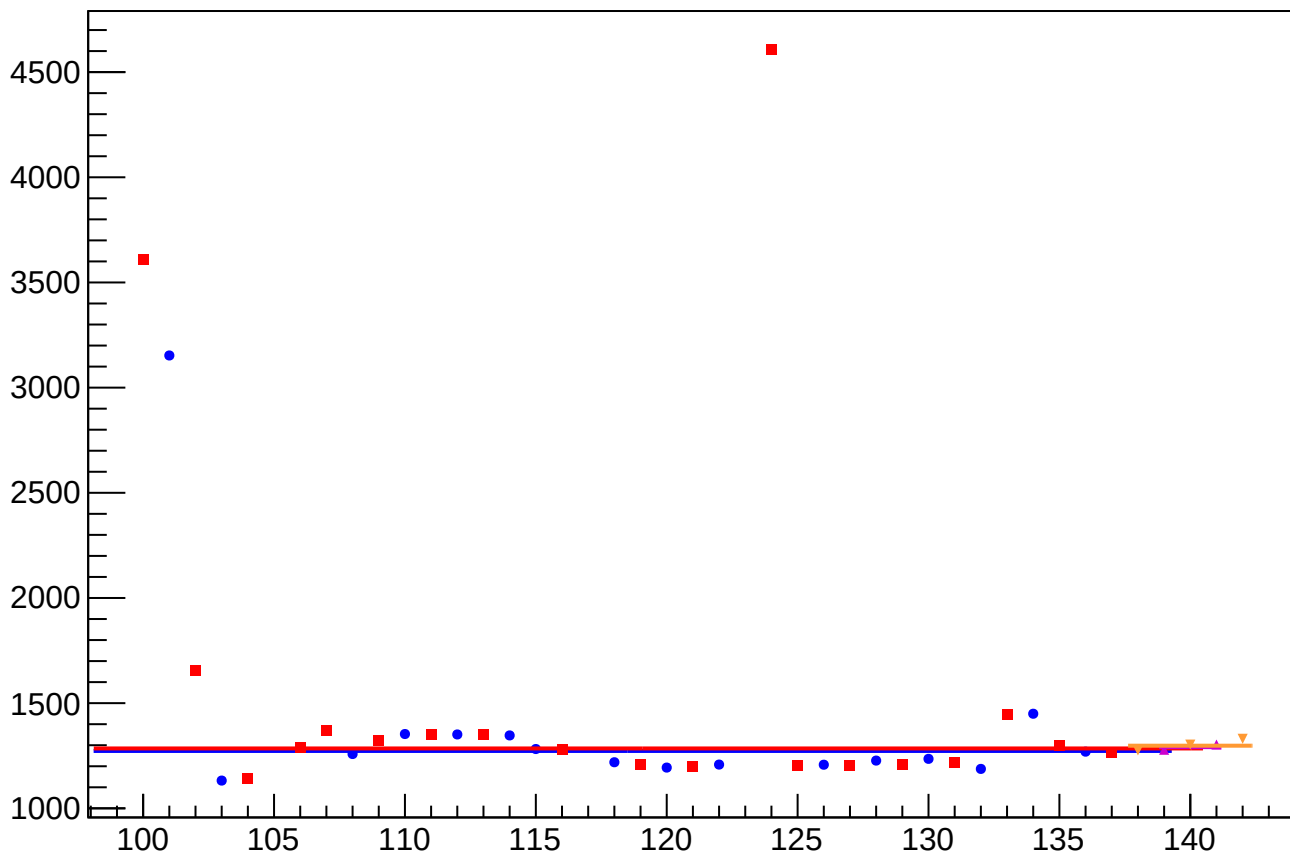
Right: 68.238+/-340.742 χ^2/NDF : 36.2/34

In: 378.688+/-432.921 χ^2/NDF : 18.0/17

Out: -552.864+/-424.780 χ^2/NDF : 26.2/21

All: -95.928+/-303.202 χ^2/NDF : 46.6/39

cor_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1272.804+/-0.341 χ^2/NDF : 519299.6/15

Left Out: 1297.744+/-0.639 χ^2/NDF :1041.7/2

Right Out: 1284.654+/-0.340 χ^2/NDF : 328734.9/18

Left In: 1290.901+/-0.694 χ^2/NDF :316.8/1

Left: 1294.605+/-0.470 χ^2/NDF : 1411.2/4

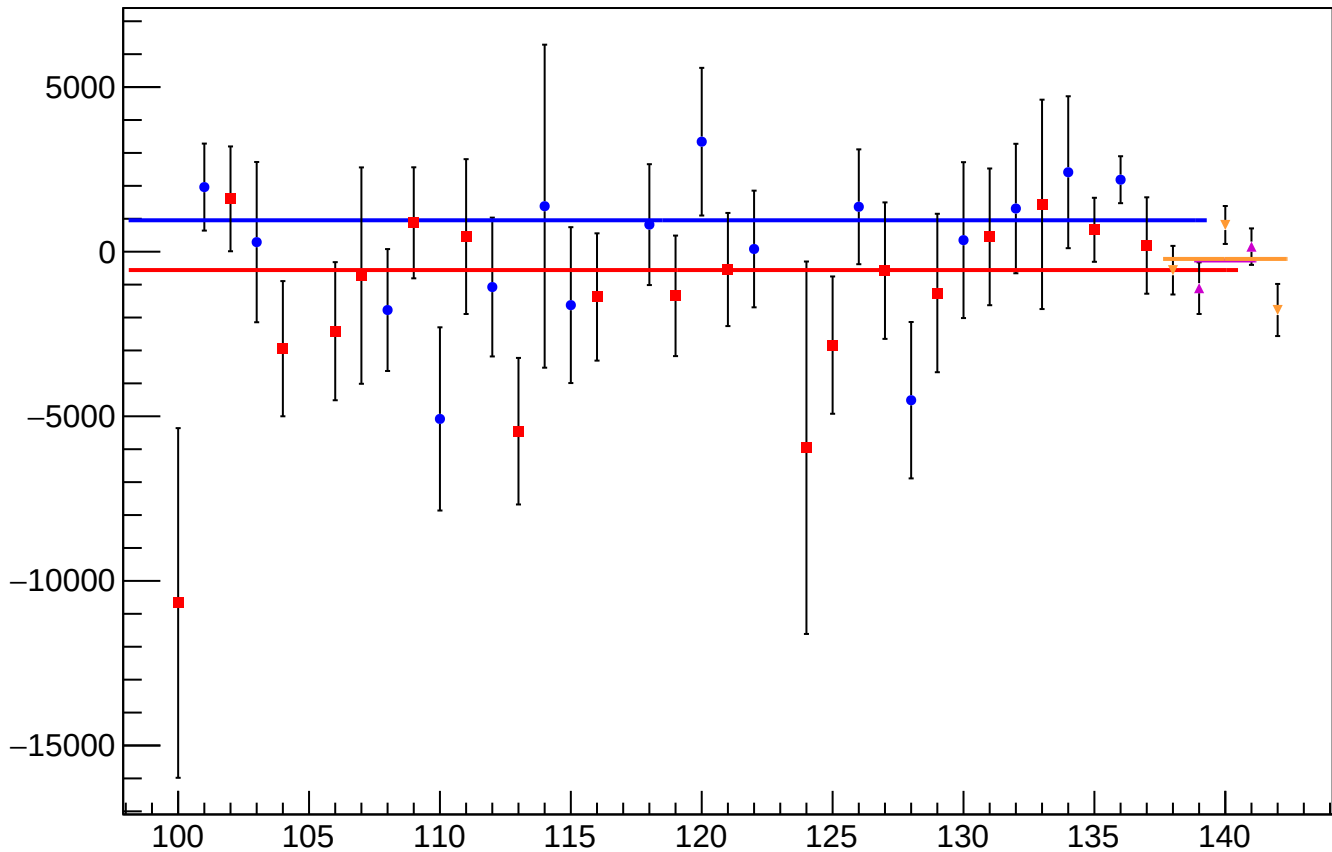
Right: 1278.743+/-0.241 χ^2/NDF : 848639.3/34

In: 1276.328+/-0.306 χ^2/NDF :520164.5/17

Out: 1287.549+/-0.300 χ^2/NDF :330103.8/21

All: 1282.045+/-0.214 χ^2/NDF : 850952.8/39

asym_atl_dd_atr_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 954.146 ± 425.660 $\chi^2/\text{NDF}: 19.9/15$

Left Out: -219.841 ± 394.062 $\chi^2/\text{NDF}: 7.3/2$

Right Out: -557.935 ± 440.758 $\chi^2/\text{NDF}: 18.4/18$

Left In: -266.941 ± 452.536 $\chi^2/\text{NDF}: 1.7/1$

Left: -240.153 ± 297.182 $\chi^2/\text{NDF}: 9.0/4$

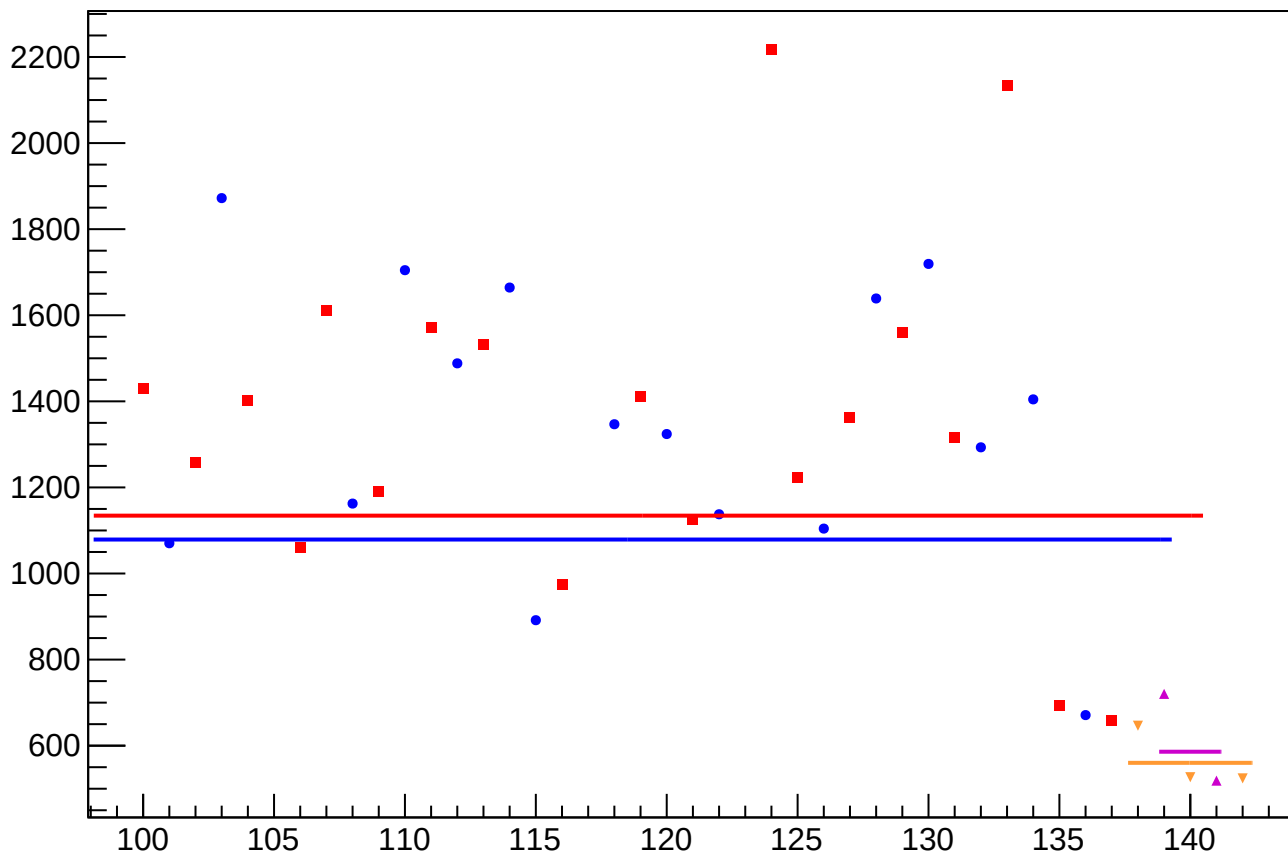
Right: 224.446 ± 306.186 $\chi^2/\text{NDF}: 44.3/34$

In: 380.937 ± 310.053 $\chi^2/\text{NDF}: 25.4/17$

Out: -370.036 ± 293.771 $\chi^2/\text{NDF}: 26.0/21$

All: -14.785 ± 213.251 $\chi^2/\text{NDF}: 54.5/39$

asym_atl_dd_atr_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1078.932+/-0.301 χ^2/NDF : 1478719.9/15

Left Out: 560.135+/-0.279 χ^2/NDF : 38168.8/2

Right Out: 1134.428+/-0.312 χ^2/NDF : 1288899.2/18

Left In: 585.960+/-0.320 χ^2/NDF : 88162.4/1

Left: 571.272+/-0.210 χ^2/NDF : 130035.7/4

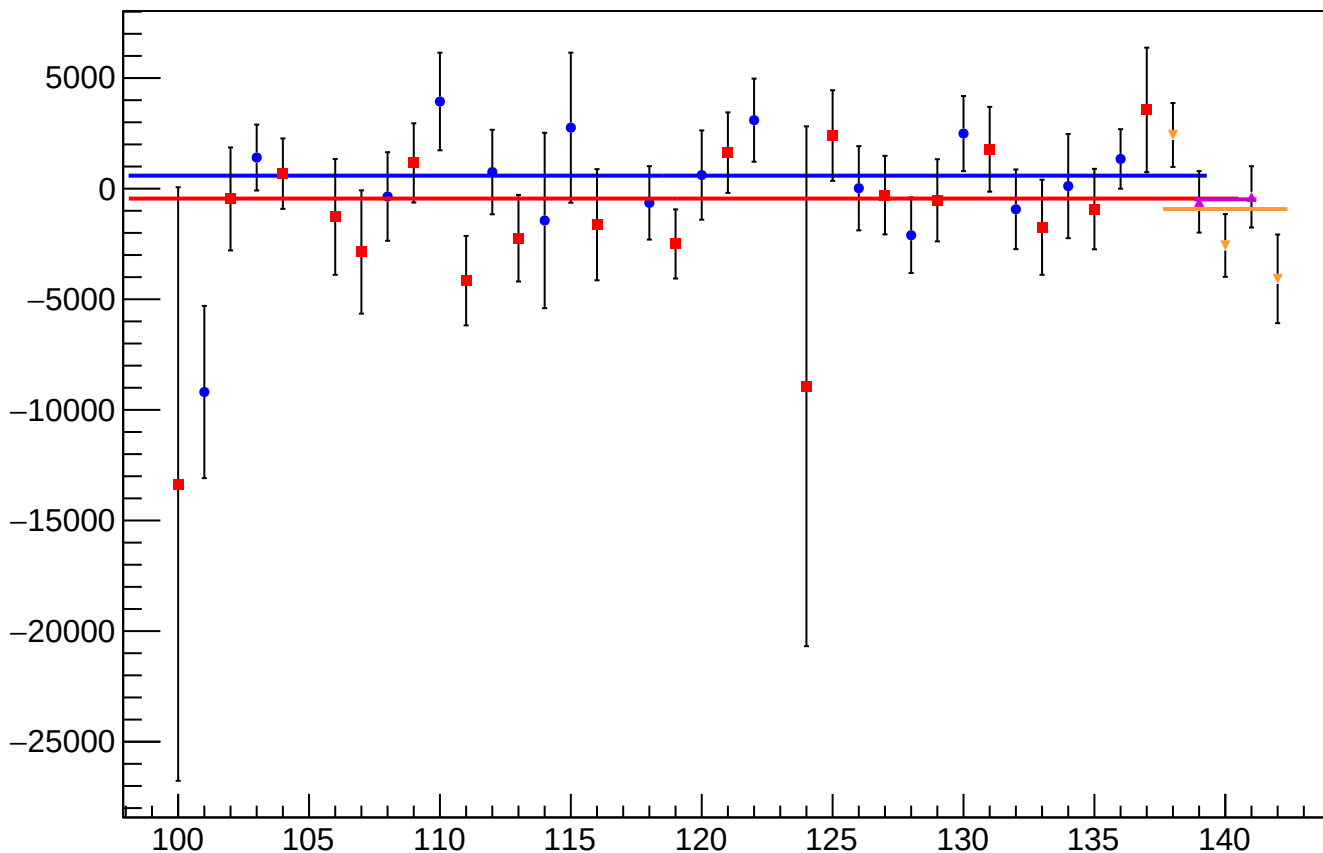
Right: 1105.713+/-0.217 χ^2/NDF : 2784024.9/34

In: 847.518+/-0.219 χ^2/NDF : 2826137.7/17

Out: 815.258+/-0.208 χ^2/NDF : 3214124.7/21

All: 830.519+/-0.151 χ^2/NDF : 6051671.6/39

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 587.254+/-482.434 χ^2/NDF : 17.1/15

Left Out: -920.664+/-903.218 χ^2/NDF : 9.2/2

Right Out: -448.412+/-481.333 χ^2/NDF : 16.8/18

Left In: -483.795+/-981.051 χ^2/NDF : 0.0/1

Left: -720.244+/-664.486 χ^2/NDF : 9.3/4

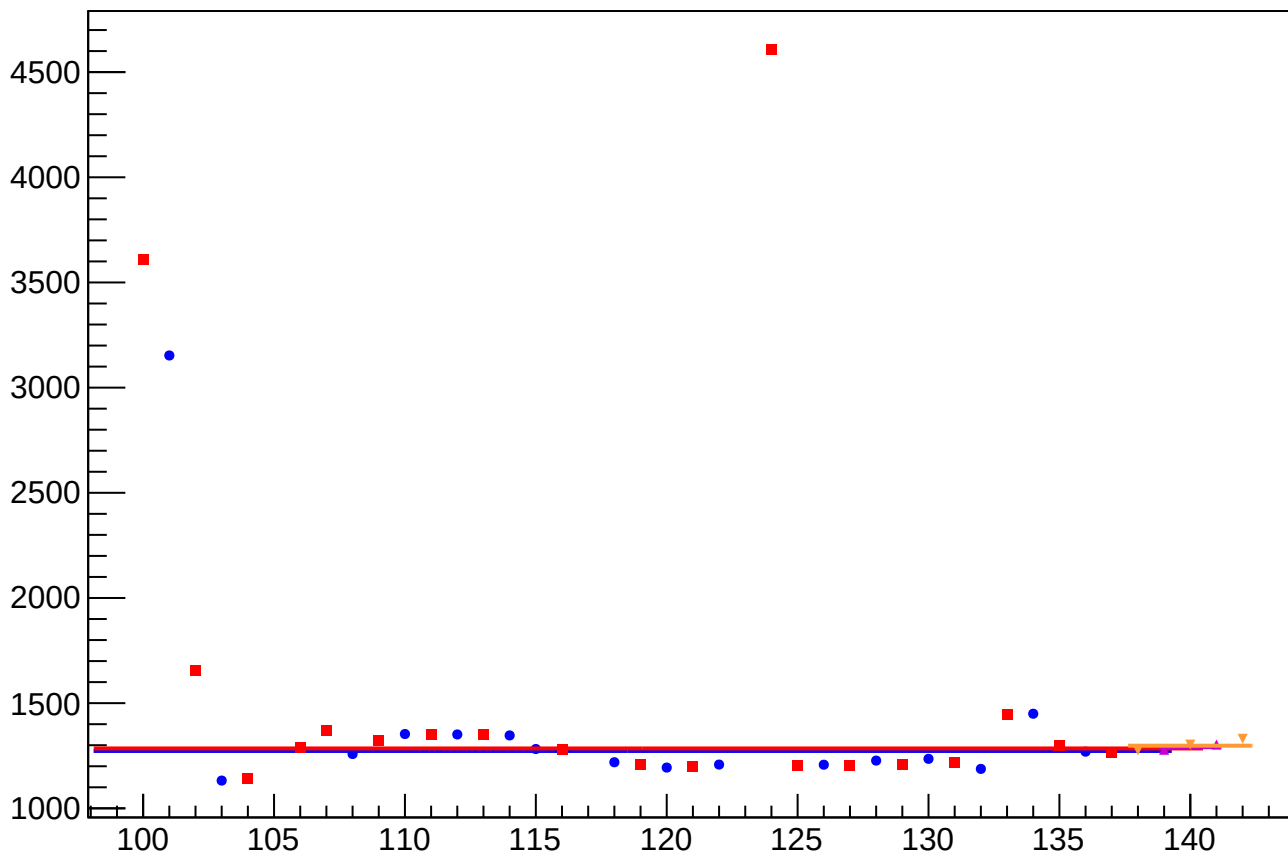
Right: 68.238+/-340.742 χ^2/NDF : 36.2/34

In: 378.688+/-432.921 χ^2/NDF : 18.0/17

Out: -552.864+/-424.780 χ^2/NDF : 26.2/21

All: -95.928+/-303.202 χ^2/NDF : 46.6/39

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1272.804+/-0.341 χ^2/NDF : 519299.6/15

Left Out: 1297.744+/-0.639 χ^2/NDF :1041.7/2

Right Out: 1284.654+/-0.340 χ^2/NDF : 328734.9/18

Left In: 1290.901+/-0.694 χ^2/NDF :316.8/1

Left: 1294.605+/-0.470 χ^2/NDF : 1411.2/4

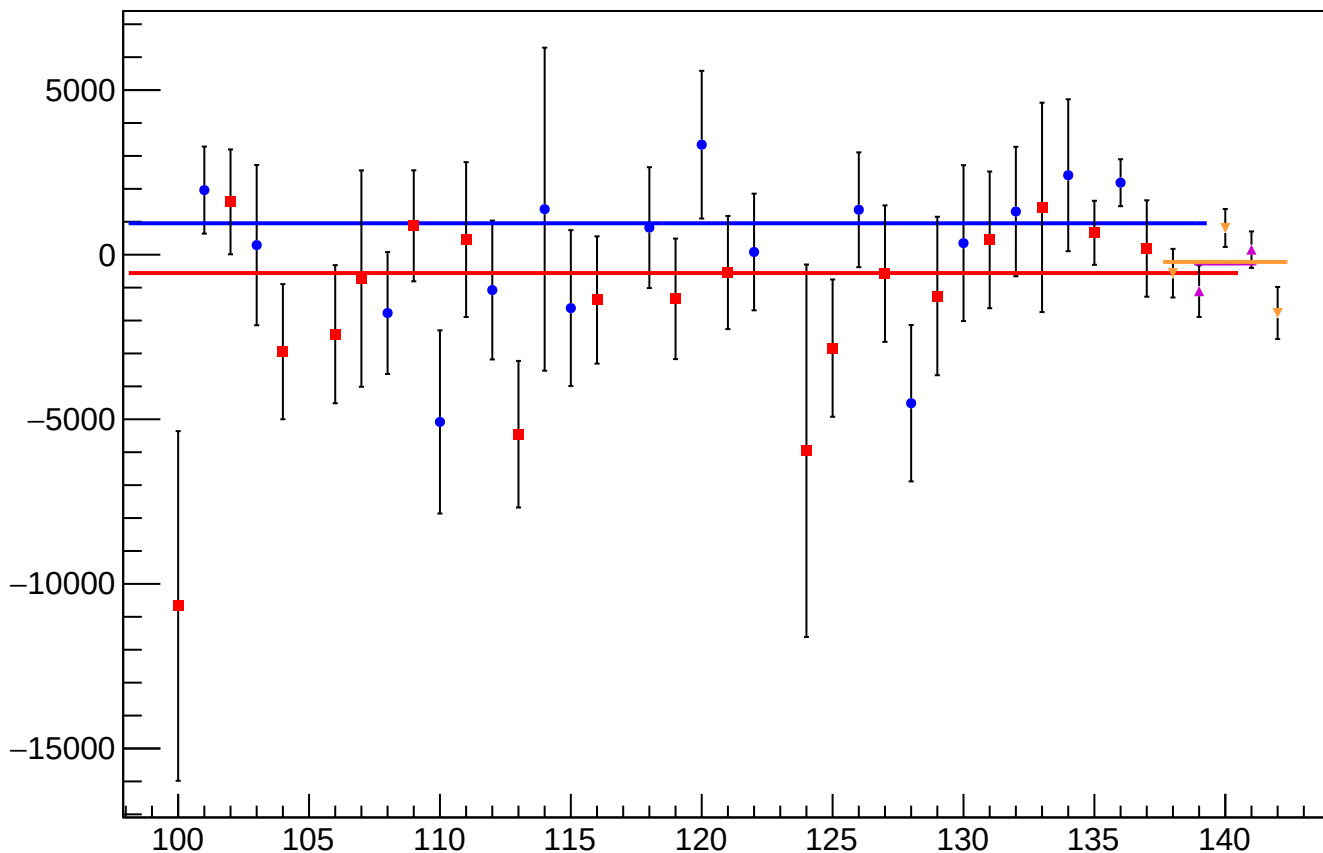
Right: 1278.743+/-0.241 χ^2/NDF : 848639.3/34

In: 1276.328+/-0.306 χ^2/NDF :520164.5/17

Out: 1287.549+/-0.300 χ^2/NDF :330103.8/21

All: 1282.045+/-0.214 χ^2/NDF : 850952.8/39

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 954.146 ± 425.660 $\chi^2/\text{NDF}: 19.9/15$

Left Out: -219.841 ± 394.062 $\chi^2/\text{NDF}: 7.3/2$

Right Out: -557.935 ± 440.758 $\chi^2/\text{NDF}: 18.4/18$

Left In: -266.941 ± 452.536 $\chi^2/\text{NDF}: 1.7/1$

Left: -240.153 ± 297.182 $\chi^2/\text{NDF}: 9.0/4$

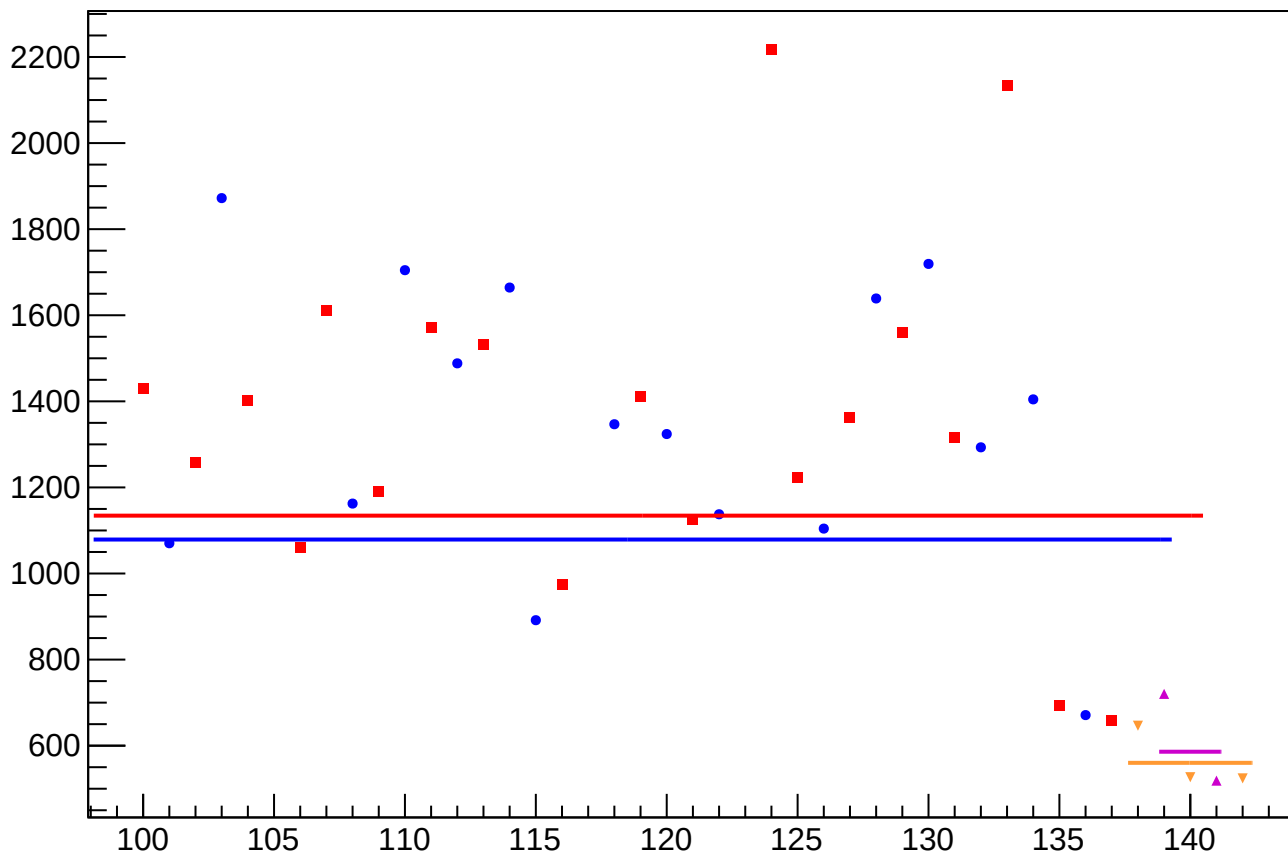
Right: 224.446 ± 306.186 $\chi^2/\text{NDF}: 44.3/34$

In: 380.937 ± 310.053 $\chi^2/\text{NDF}: 25.4/17$

Out: -370.036 ± 293.771 $\chi^2/\text{NDF}: 26.0/21$

All: -14.785 ± 213.251 $\chi^2/\text{NDF}: 54.5/39$

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Left: 571.272 $\pm$ 0.210 χ^2/NDF : 130035.7/4

Right: 1105.713 $\pm$ 0.217 χ^2/NDF : 2784024.9/34

In: 847.518 $\pm$ 0.219 χ^2/NDF : 2826137.7/17

Out: 815.258 $\pm$ 0.208 χ^2/NDF : 3214124.7/21

Right In: 1078.932 $\pm$ 0.301 χ^2/NDF : 1478719.9/15

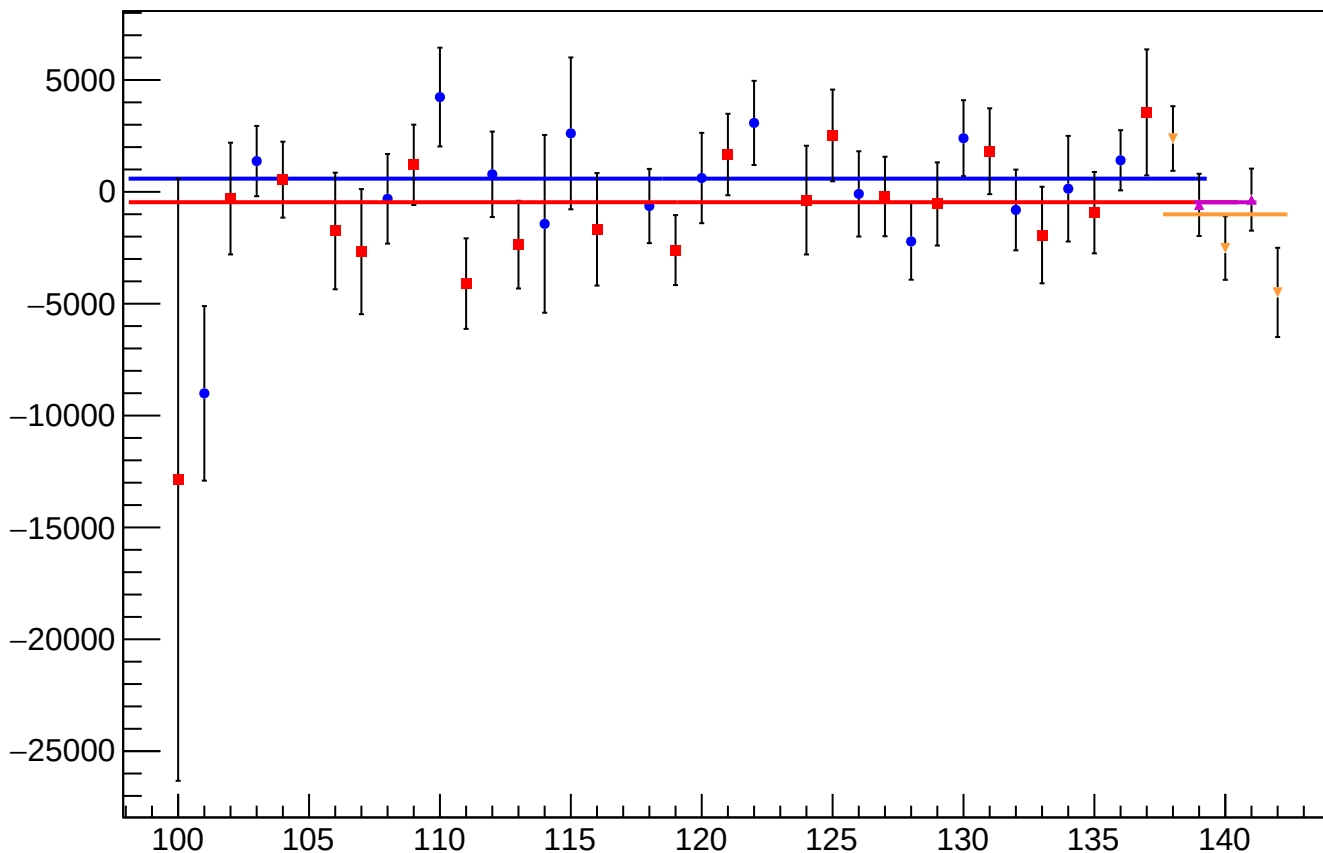
Left Out: 560.135 $\pm$ 0.279 χ^2/NDF : 38168.8/2

Right Out: 1134.428 $\pm$ 0.312 χ^2/NDF : 1288899.2/18

Left In: 585.960 $\pm$ 0.320 χ^2/NDF : 88162.4/1

All: 830.519 $\pm$ 0.151 χ^2/NDF : 6051671.6/39

dit_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 590.322 $\pm$ 485.483 χ^2 /NDF: 17.1/15

Left Out: -1005.111 $\pm$ 902.868 χ^2 /NDF:9.7/2

Right Out: -462.606 $\pm$ 476.795 χ^2 /NDF: 16.7/18

Left In: -465.013 $\pm$ 981.815 χ^2 /NDF:0.0/1

Left: -757.646 $\pm$ 664.584 χ^2 /NDF: 9.9/4

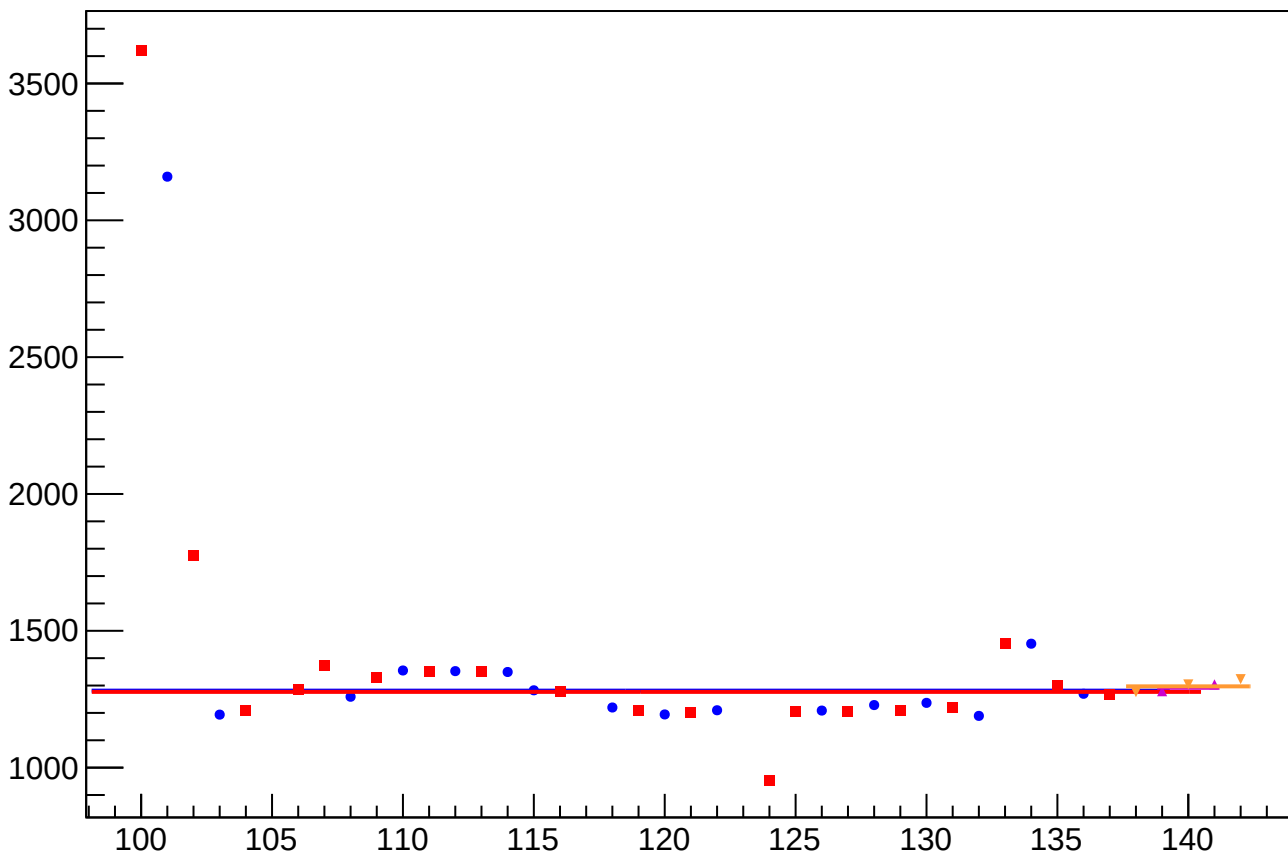
Right: 54.353 $\pm$ 340.175 χ^2 /NDF: 36.2/34

In: 382.983 $\pm$ 435.186 χ^2 /NDF:18.1/17

Out: -580.907 $\pm$ 421.616 χ^2 /NDF:26.7/21

All: -114.225 $\pm$ 302.811 χ^2 /NDF: 47.3/39

dit_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1281.369+/-0.343 χ^2/NDF : 507078.4/15

Left Out: 1297.012+/-0.638 χ^2/NDF : 823.7/2

Right Out: 1276.860+/-0.337 χ^2/NDF : 220513.6/18

Left In: 1291.897+/-0.694 χ^2/NDF : 329.8/1

Left: 1294.669+/-0.470 χ^2/NDF : 1182.9/4

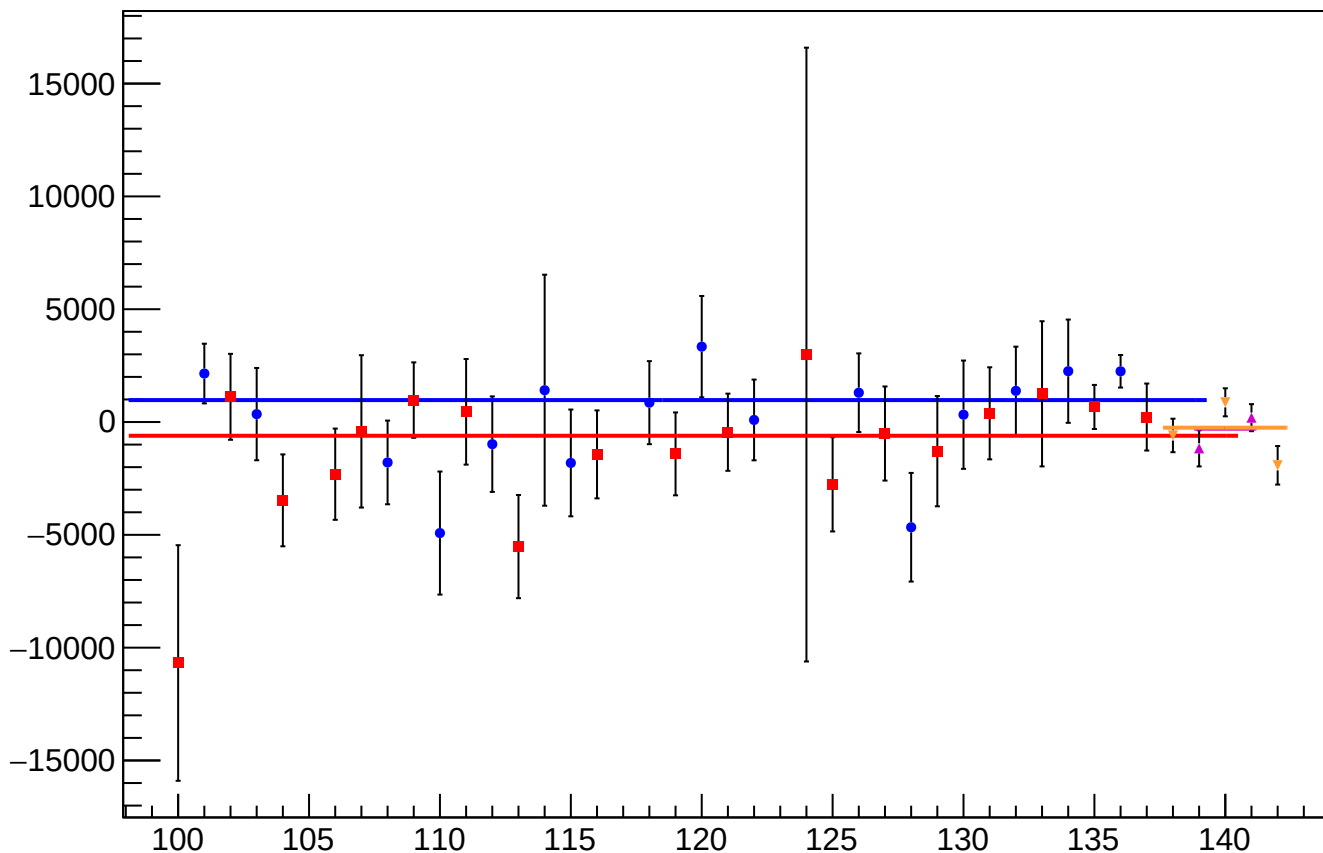
Right: 1279.074+/-0.241 χ^2/NDF : 727679.9/34

In: 1283.437+/-0.308 χ^2/NDF : 507593.0/17

Out: 1281.255+/-0.298 χ^2/NDF : 222116.5/21

All: 1282.311+/-0.214 χ^2/NDF : 729735.4/39

asym_atl_dd_atr_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 972.287 $\pm$ 425.219 χ^2 /NDF: 20.4/15

Left Out: -250.766 $\pm$ 416.185 χ^2 /NDF:7.3/2

Right Out: -608.431 $\pm$ 447.734 χ^2 /NDF: 17.1/18

Left In: -294.204 $\pm$ 479.501 χ^2 /NDF:1.9/1

Left: -269.430 $\pm$ 314.306 χ^2 /NDF: 9.2/4

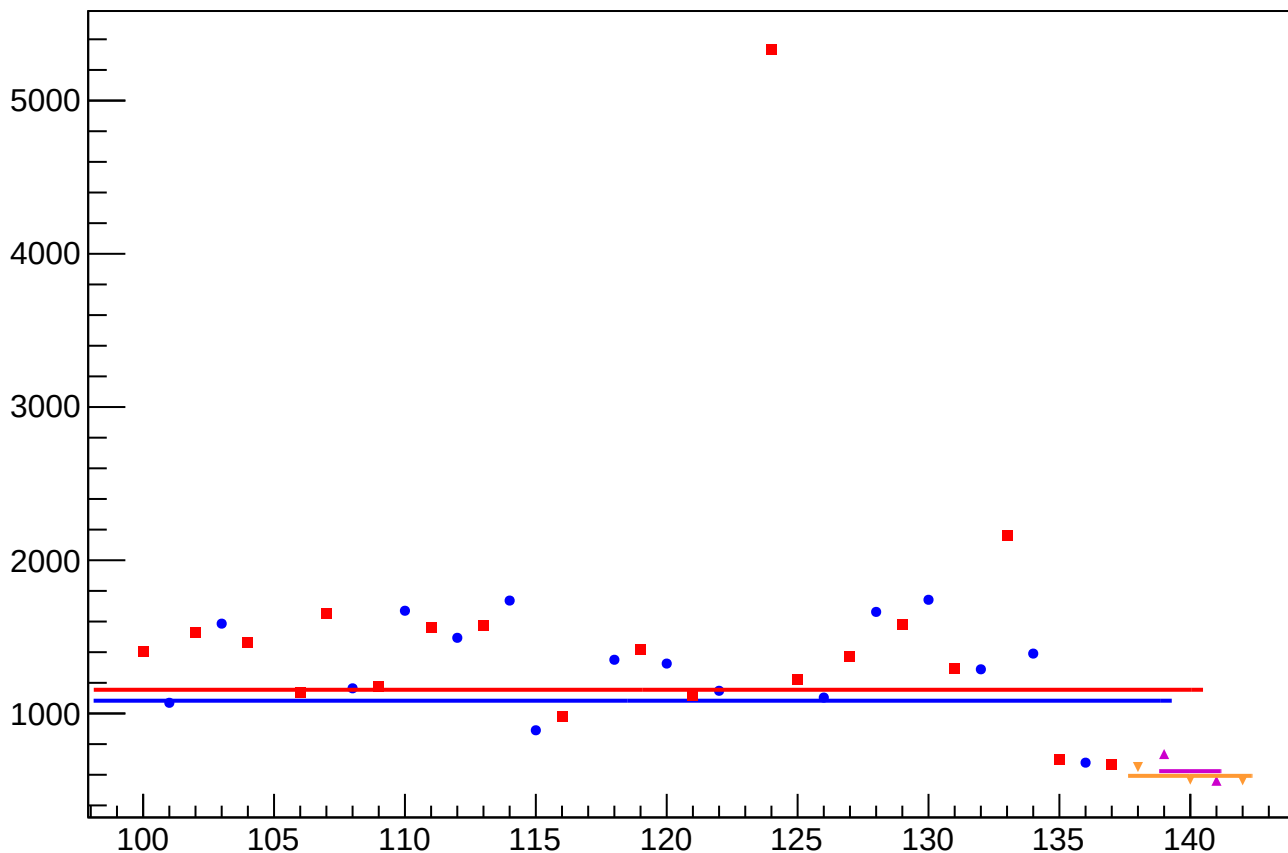
Right: 222.671 $\pm$ 308.328 χ^2 /NDF: 44.1/34

In: 414.757 $\pm$ 318.143 χ^2 /NDF:26.2/17

Out: -416.555 $\pm$ 304.831 χ^2 /NDF:24.8/21

All: -18.654 $\pm$ 220.104 χ^2 /NDF: 54.5/39

asym_atl_dd_atr_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1083.335+/-0.301 χ^2/NDF : 1360153.3/15

Left Out: 592.948+/-0.294 χ^2/NDF : 17484.5/2

Right Out: 1154.724+/-0.317 χ^2/NDF : 1488304.5/18

Left In: 623.559+/-0.339 χ^2/NDF : 60772.0/1

Left: 606.101+/-0.222 χ^2/NDF : 82905.1/4

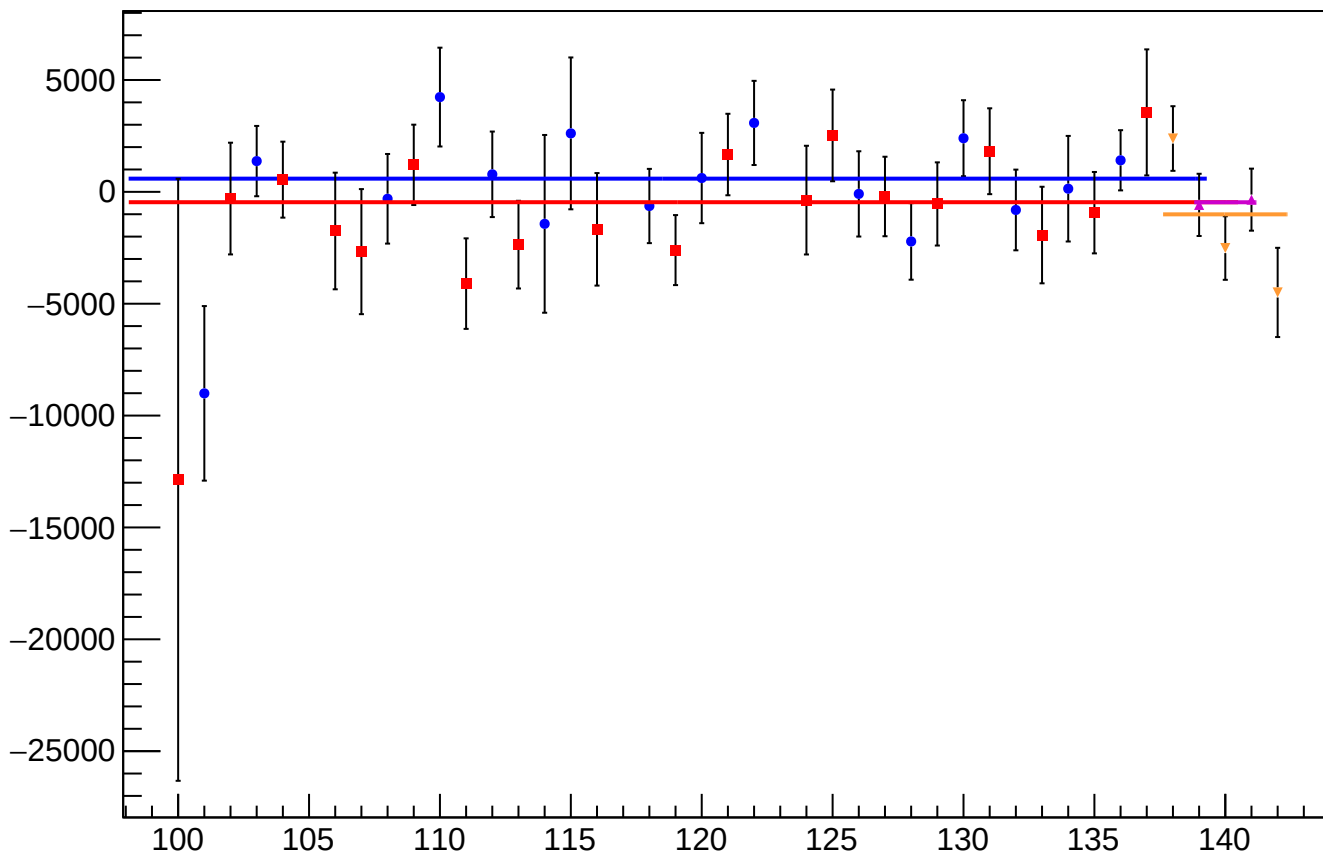
Right: 1117.189+/-0.218 χ^2/NDF : 2875191.7/34

In: 880.934+/-0.225 χ^2/NDF : 2450276.3/17

Out: 853.349+/-0.216 χ^2/NDF : 3194911.2/21

All: 866.552+/-0.156 χ^2/NDF : 5653026.8/39

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 590.323+/-485.483 χ^2/NDF : 17.1/15

Left Out: -1005.117+/-902.868 χ^2/NDF : 9.7/2

Right Out: -462.605+/-476.795 χ^2/NDF : 16.7/18

Left In: -465.021+/-981.815 χ^2/NDF : 0.0/1

Left: -757.653+/-664.584 χ^2/NDF : 9.9/4

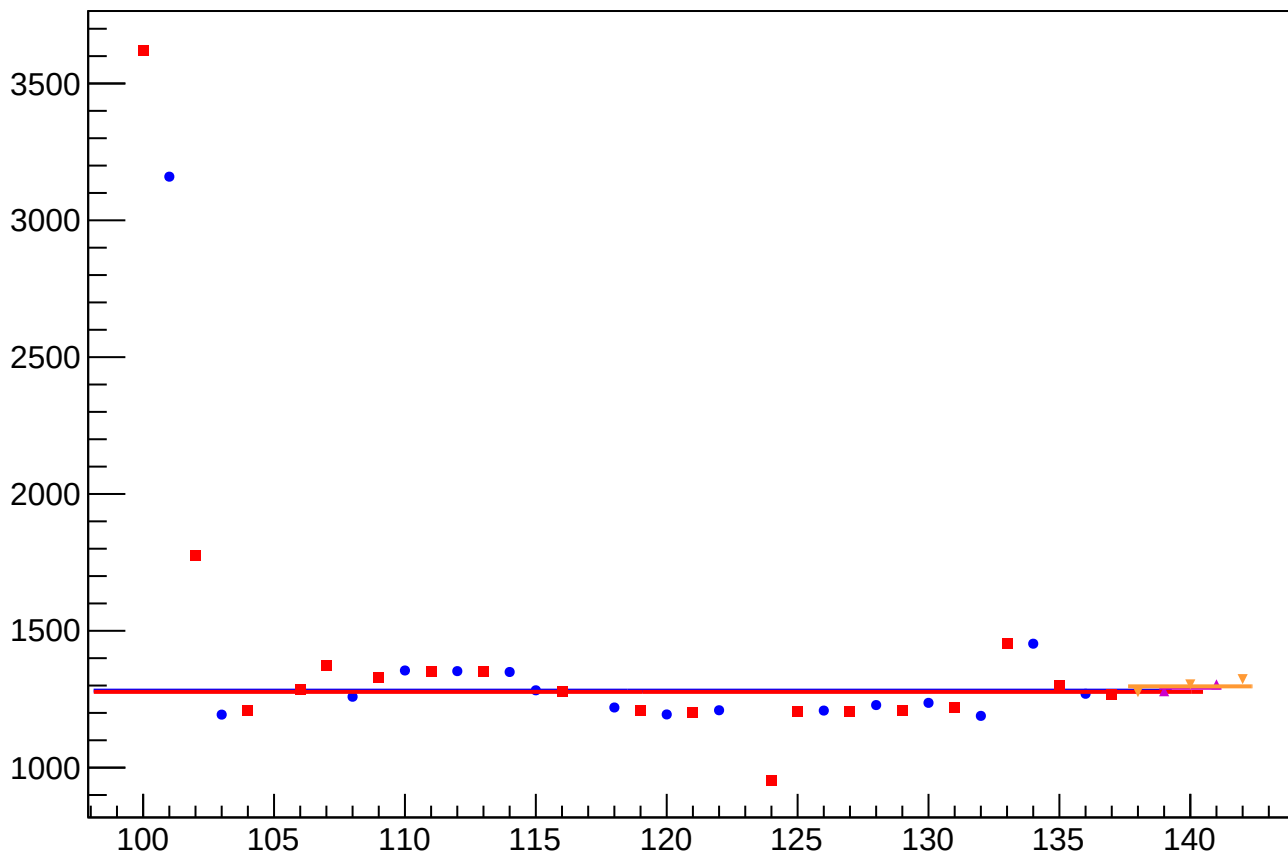
Right: 54.354+/-340.175 χ^2/NDF : 36.2/34

In: 382.982+/-435.186 χ^2/NDF : 18.1/17

Out: -580.908+/-421.616 χ^2/NDF : 26.7/21

All: -114.225+/-302.811 χ^2/NDF : 47.3/39

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1281.369+/-0.343 χ^2/NDF : 507078.6/15

Left Out: 1297.012+/-0.638 χ^2/NDF : 823.7/2

Right Out: 1276.860+/-0.337 χ^2/NDF : 220513.5/18

Left In: 1291.898+/-0.694 χ^2/NDF : 329.8/1

Left: 1294.669+/-0.470 χ^2/NDF : 1182.9/4

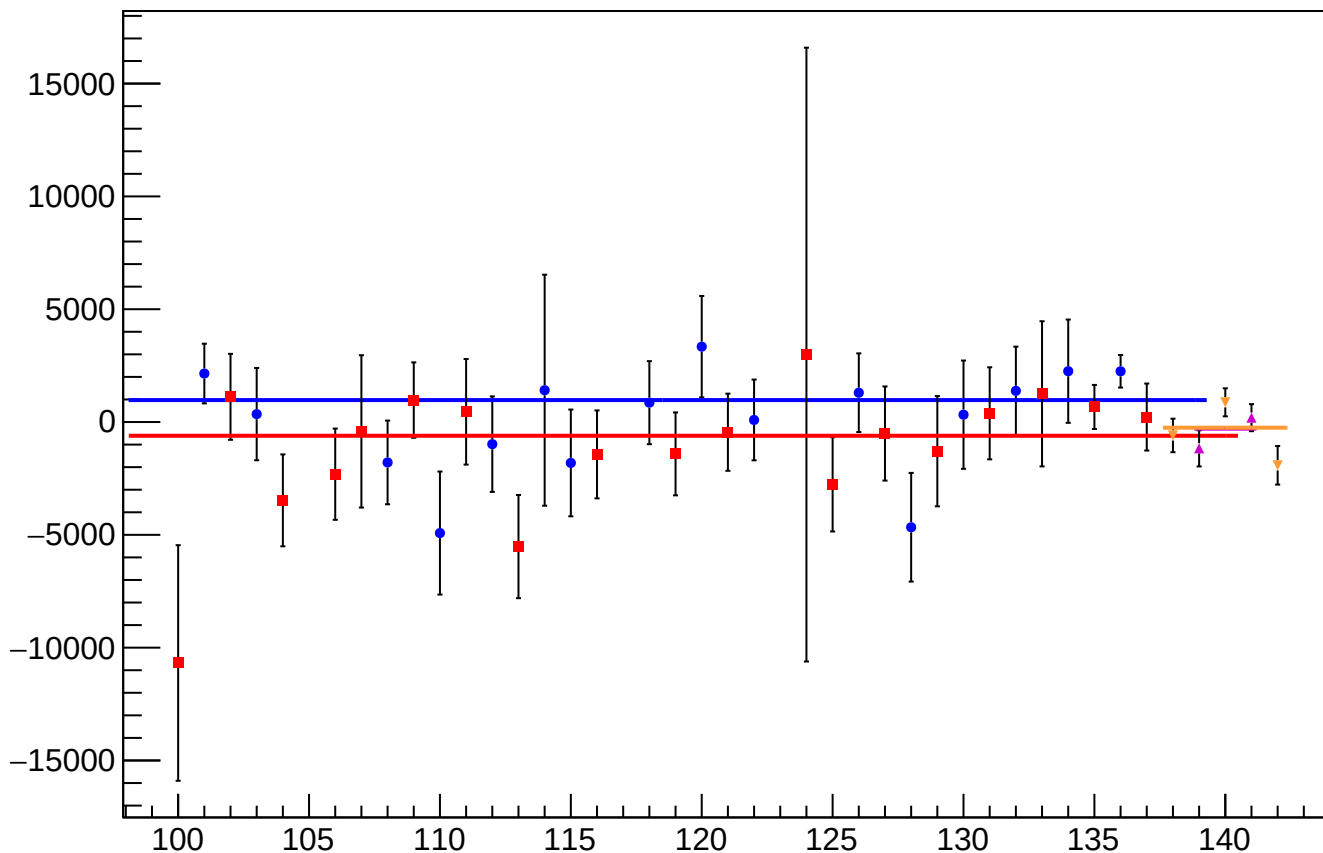
Right: 1279.074+/-0.241 χ^2/NDF : 727679.9/34

In: 1283.437+/-0.308 χ^2/NDF : 507593.2/17

Out: 1281.254+/-0.298 χ^2/NDF : 222116.4/21

All: 1282.311+/-0.214 χ^2/NDF : 729735.5/39

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 972.281 $\pm$ 425.220 χ^2 /NDF: 20.4/15

Left Out: -250.769 $\pm$ 416.189 χ^2 /NDF:7.3/2

Right Out: -608.441 $\pm$ 447.736 χ^2 /NDF: 17.1/18

Left In: -294.202 $\pm$ 479.505 χ^2 /NDF:1.9/1

Left: -269.430 $\pm$ 314.309 χ^2 /NDF: 9.2/4

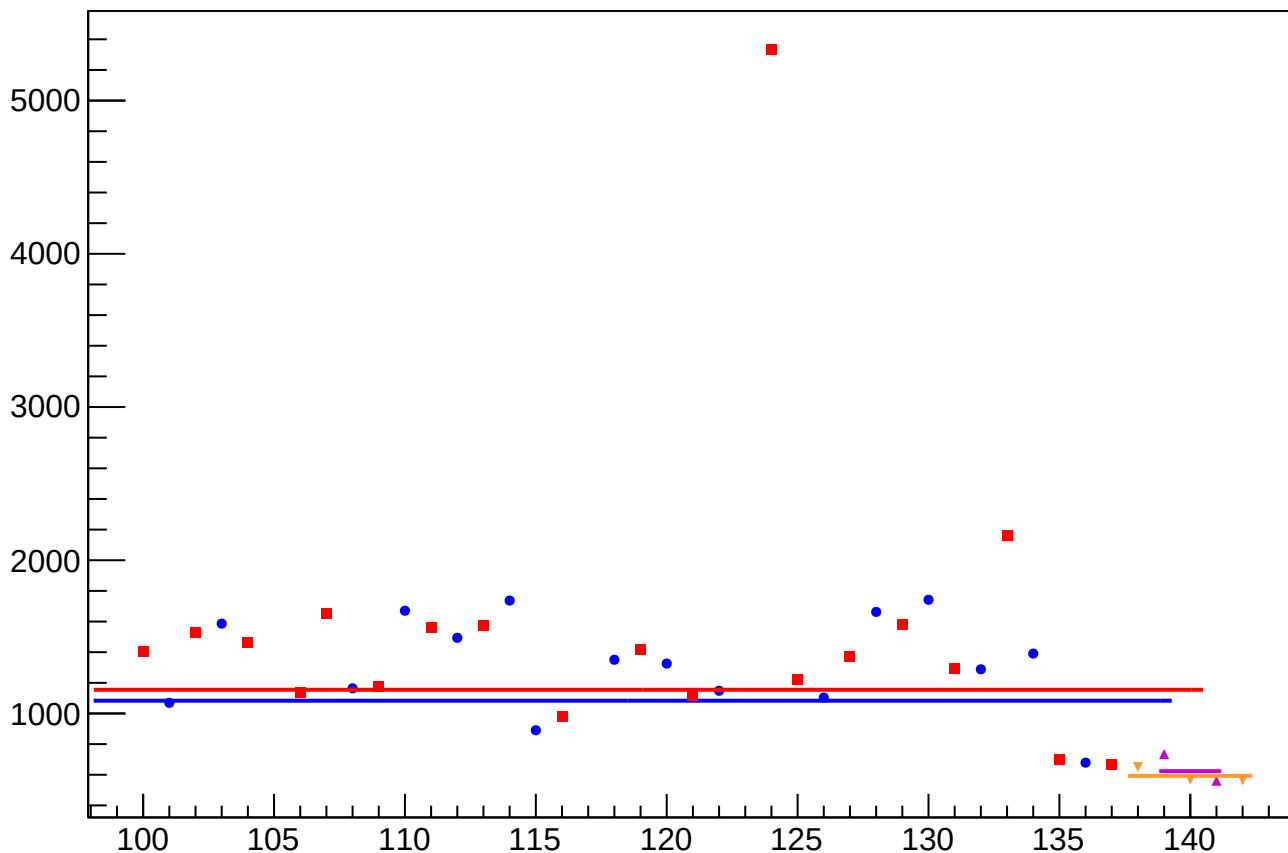
Right: 222.664 $\pm$ 308.329 χ^2 /NDF: 44.1/34

In: 414.758 $\pm$ 318.145 χ^2 /NDF:26.2/17

Out: -416.561 $\pm$ 304.833 χ^2 /NDF:24.8/21

All: -18.657 $\pm$ 220.105 χ^2 /NDF: 54.5/39

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1083.341+/-0.301 χ^2/NDF : 1360095.7/15

Left Out: 592.953+/-0.294 χ^2/NDF : 17488.4/2

Right Out: 1154.732+/-0.317 χ^2/NDF : 1488251.4/18

Left In: 623.564+/-0.339 χ^2/NDF : 60777.2/1

Left: 606.106+/-0.222 χ^2/NDF : 82914.2/4

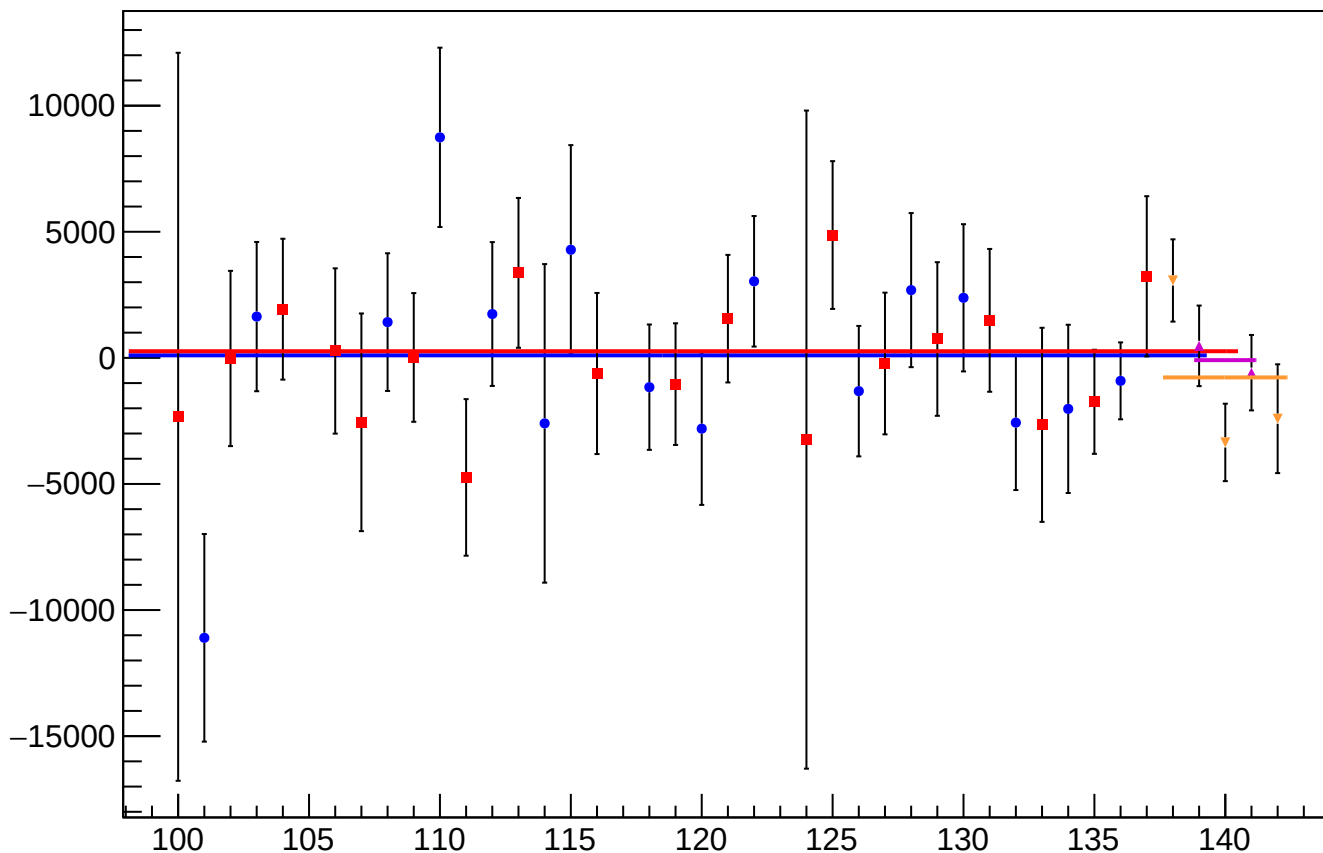
Right: 1117.196+/-0.218 χ^2/NDF : 2875081.4/34

In: 880.941+/-0.225 χ^2/NDF : 2450216.9/17

Out: 853.356+/-0.216 χ^2/NDF : 3194855.2/21

All: 866.559+/-0.156 χ^2/NDF : 5652911.0/39

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 100.451+/-698.983 χ^2/NDF : 21.3/15

Left Out: -776.279+/-992.664 χ^2/NDF : 8.9/2

Right Out: 262.731+/-699.724 χ^2/NDF : 10.3/18

Left In: -90.169+/-1091.699 χ^2/NDF : 0.2/1

Left: -465.750+/-734.442 χ^2/NDF : 9.4/4

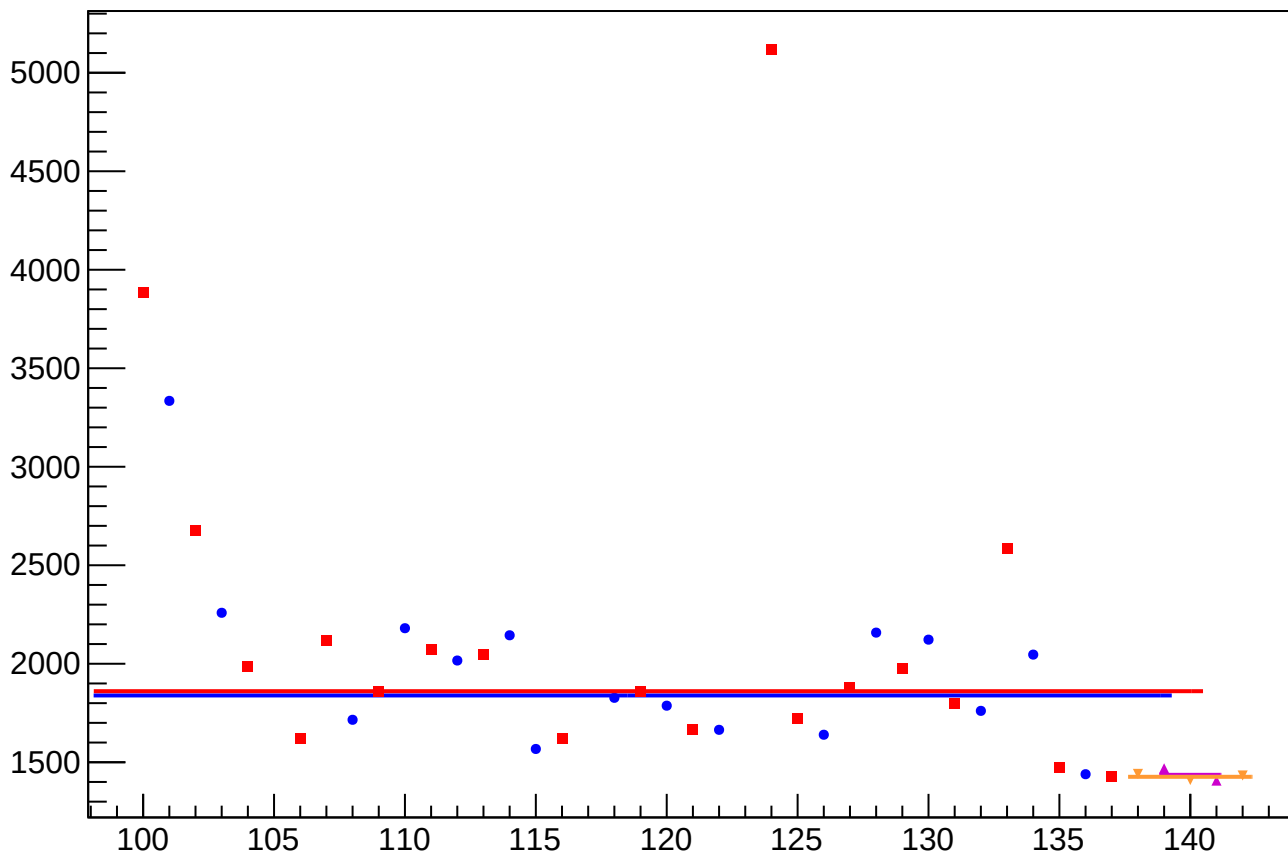
Right: 181.505+/-494.518 χ^2/NDF : 31.6/34

In: 45.028+/-588.661 χ^2/NDF : 21.5/17

Out: -82.161+/-571.918 χ^2/NDF : 20.0/21

All: -20.401+/-410.199 χ^2/NDF : 41.6/39

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1839.113+/-0.494 χ^2/NDF : 556725.4/15

Left Out: 1426.148+/-0.702 χ^2/NDF : 408.9/2

Right Out: 1860.754+/-0.495 χ^2/NDF : 522114.2/18

Left In: 1436.114+/-0.772 χ^2/NDF : 1630.3/1

Left: 1430.659+/-0.519 χ^2/NDF : 2130.5/4

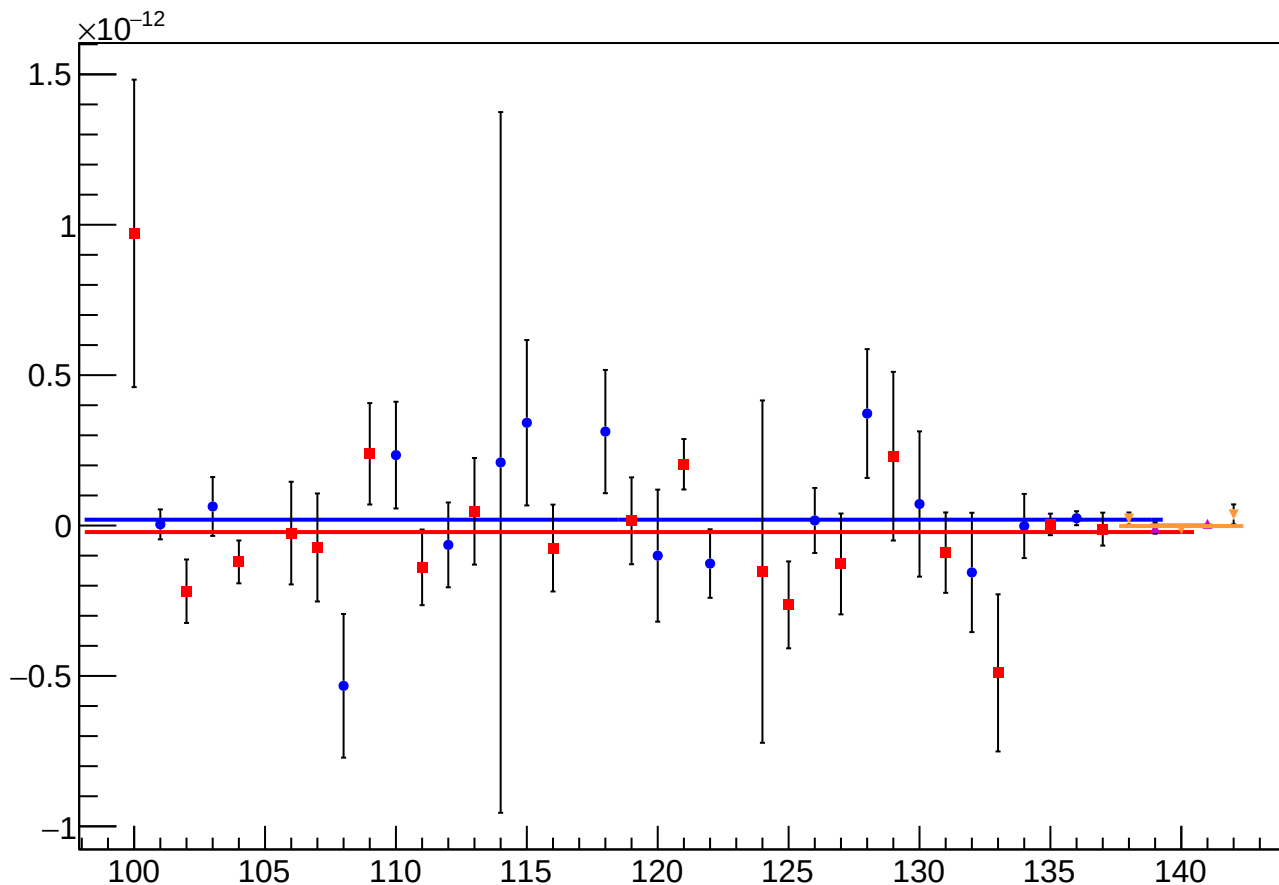
Right: 1849.922+/-0.350 χ^2/NDF : 1079797.1/34

In: 1721.940+/-0.416 χ^2/NDF : 751654.7/17

Out: 1716.492+/-0.404 χ^2/NDF : 778637.2/21

All: 1719.137+/-0.290 χ^2/NDF : 1530380.0/39

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.5/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 28.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.3/1

Left: -0.000+/-0.000 χ^2/NDF : 4.3/4

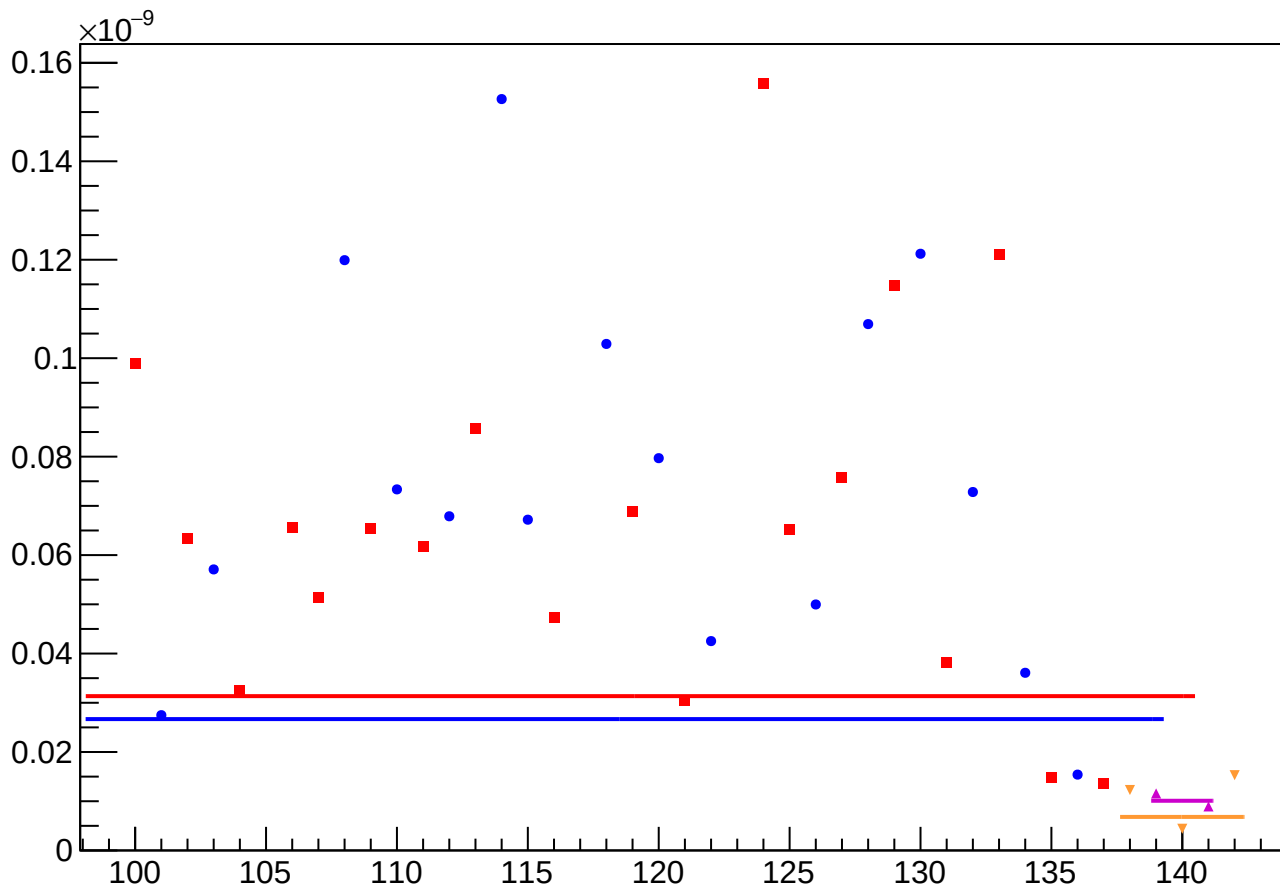
Right: 0.000+/-0.000 χ^2/NDF : 46.7/34

In: 0.000+/-0.000 χ^2/NDF : 17.6/17

Out: -0.000+/-0.000 χ^2/NDF : 32.8/21

All: -0.000+/-0.000 χ^2/NDF : 51.0/39

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2580672.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 377896.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2275167.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 22407.9/1

Left: 0.000+/-0.000 χ^2/NDF : 491945.1/4

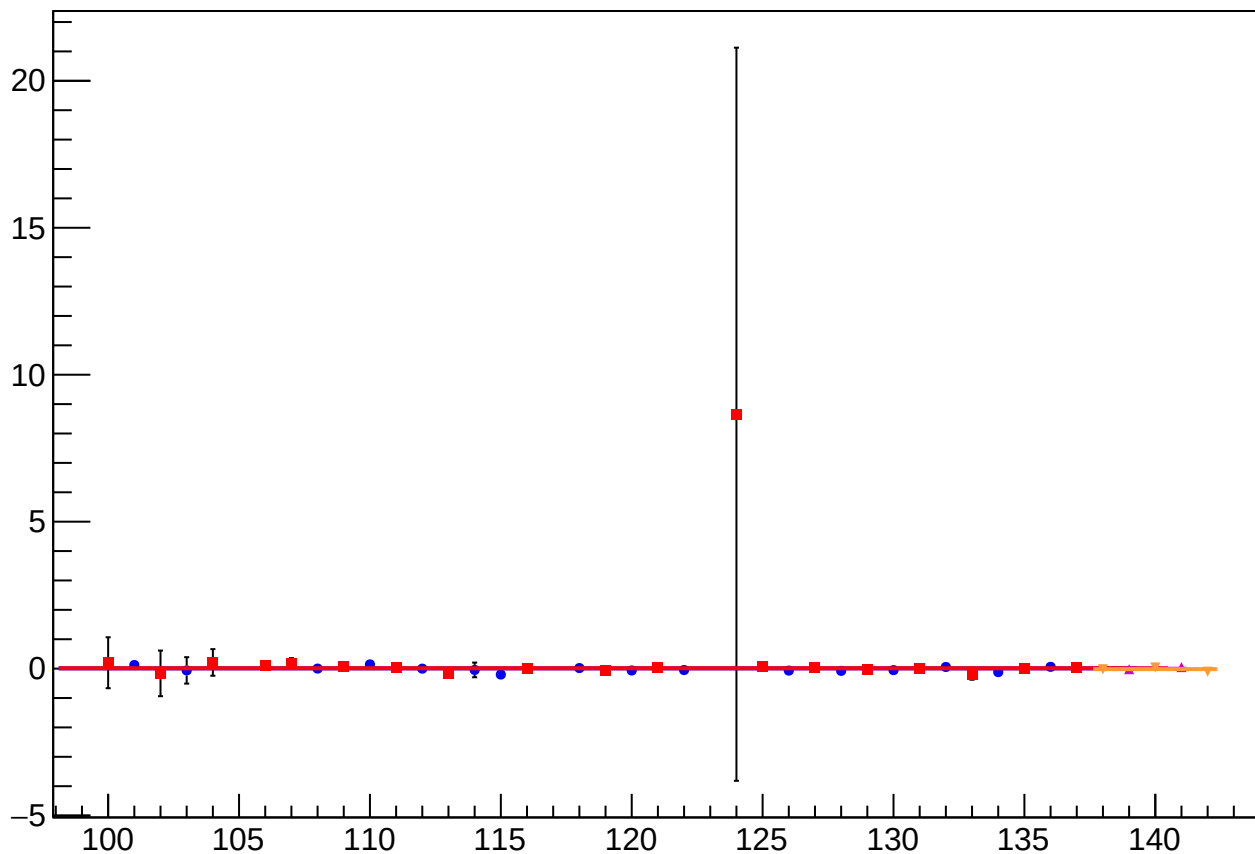
Right: 0.000+/-0.000 χ^2/NDF : 4906978.5/34

In: 0.000+/-0.000 χ^2/NDF : 3690838.9/17

Out: 0.000+/-0.000 χ^2/NDF : 4730320.7/21

All: 0.000+/-0.000 χ^2/NDF : 8679607.4/39

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008+/-0.016 χ^2/NDF : 19.3/15

Left Out: -0.017+/-0.024 χ^2/NDF : 2.3/2

Right Out: 0.012+/-0.017 χ^2/NDF : 12.6/18

Left In: -0.003+/-0.024 χ^2/NDF : 1.4/1

Left: -0.010+/-0.017 χ^2/NDF : 3.9/4

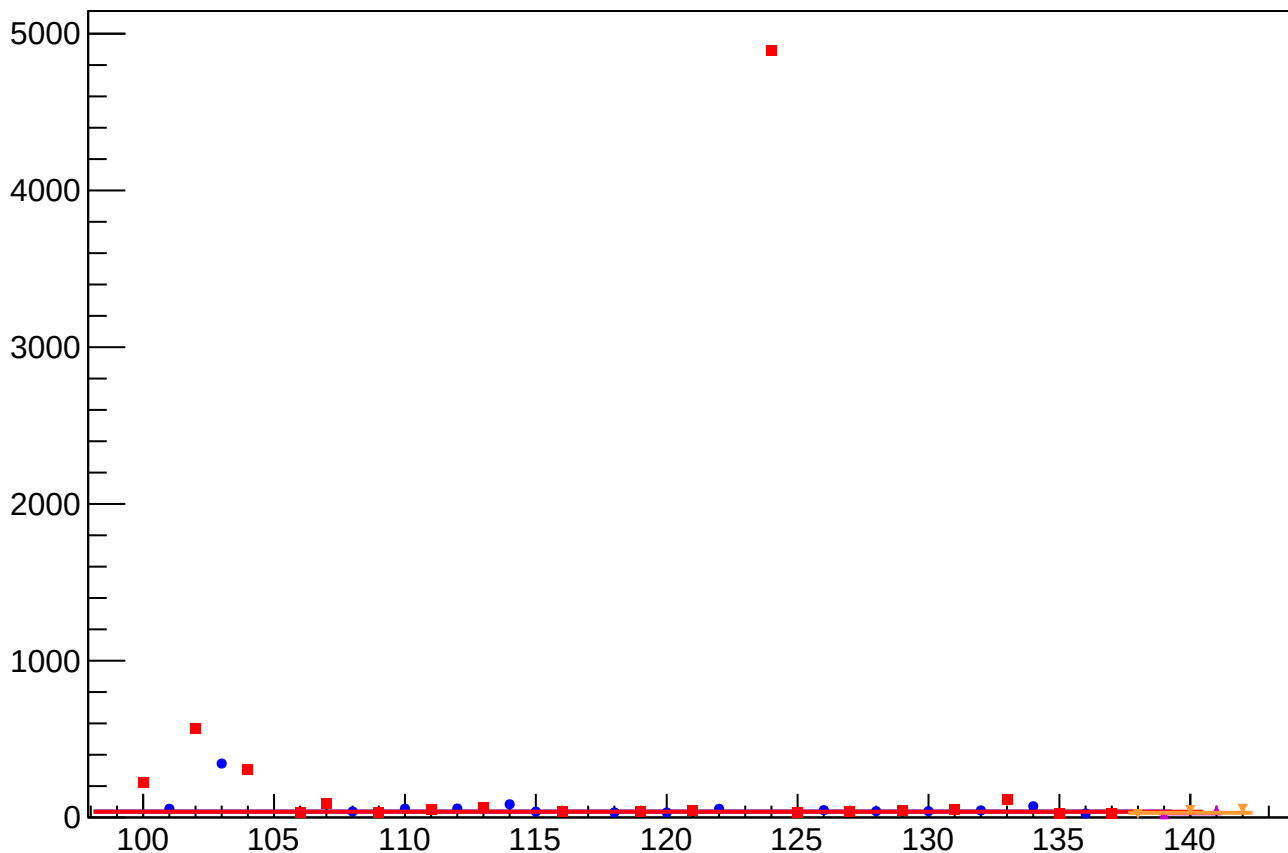
Right: 0.010+/-0.012 χ^2/NDF : 31.9/34

In: 0.005+/-0.013 χ^2/NDF : 20.9/17

Out: 0.003+/-0.014 χ^2/NDF : 15.8/21

All: 0.004+/-0.010 χ^2/NDF : 36.7/39

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.494 $\pm$ 0.011 χ^2 /NDF: 1983275.6/15

Left Out: 29.781 $\pm$ 0.017 χ^2 /NDF: 530972.8/2

Right Out: 36.767 $\pm$ 0.012 χ^2 /NDF: 3190700.2/18

Left In: 26.130 $\pm$ 0.017 χ^2 /NDF: 417356.7/1

Left: 27.956 $\pm$ 0.012 χ^2 /NDF: 971086.9/4

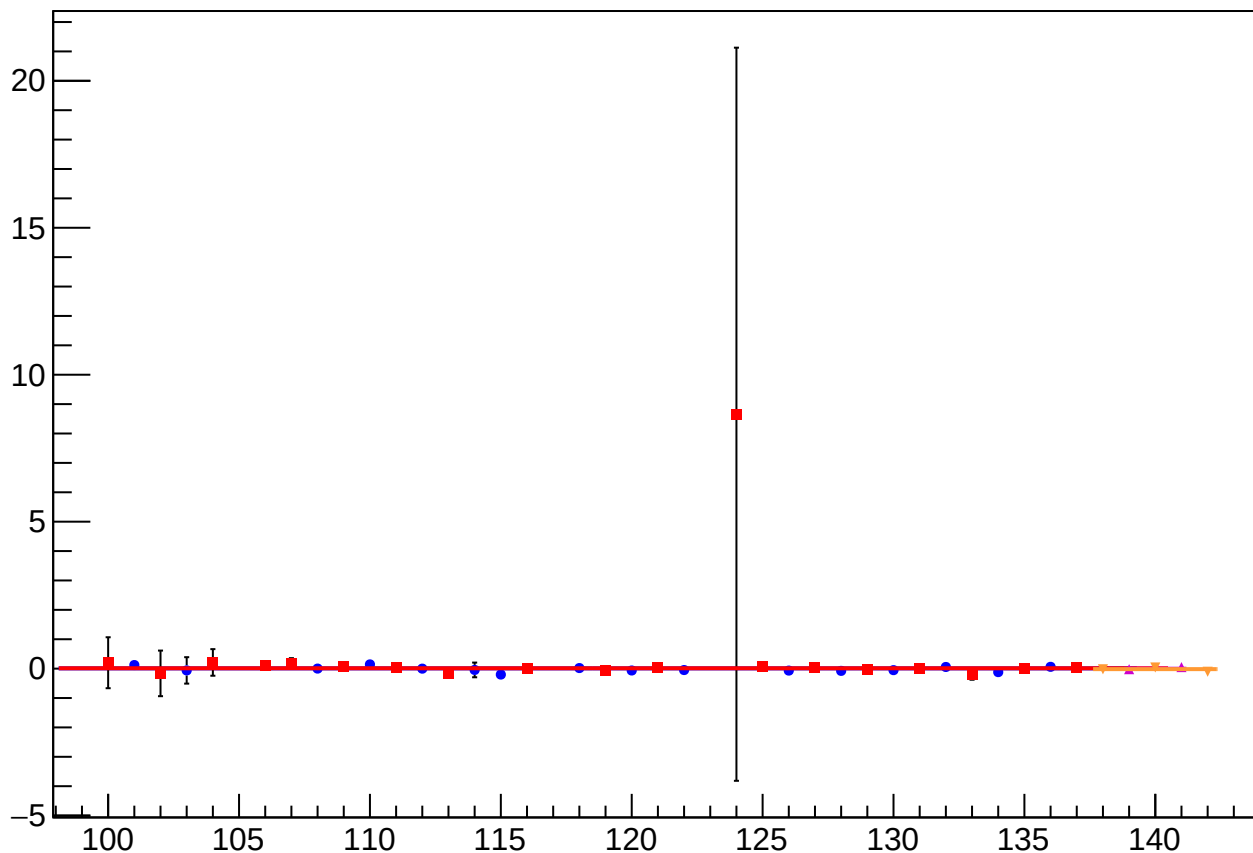
Right: 37.143 $\pm$ 0.008 χ^2 /NDF: 5175953.4/34

In: 34.015 $\pm$ 0.009 χ^2 /NDF: 2706564.2/17

Out: 34.528 $\pm$ 0.010 χ^2 /NDF: 3834984.1/21

All: 34.265 $\pm$ 0.007 χ^2 /NDF: 6542982.4/39

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008+/-0.016 χ^2/NDF : 19.3/15

Left Out: -0.017+/-0.024 χ^2/NDF : 2.3/2

Right Out: 0.012+/-0.017 χ^2/NDF : 12.6/18

Left In: -0.003+/-0.024 χ^2/NDF : 1.4/1

Left: -0.010+/-0.017 χ^2/NDF : 3.9/4

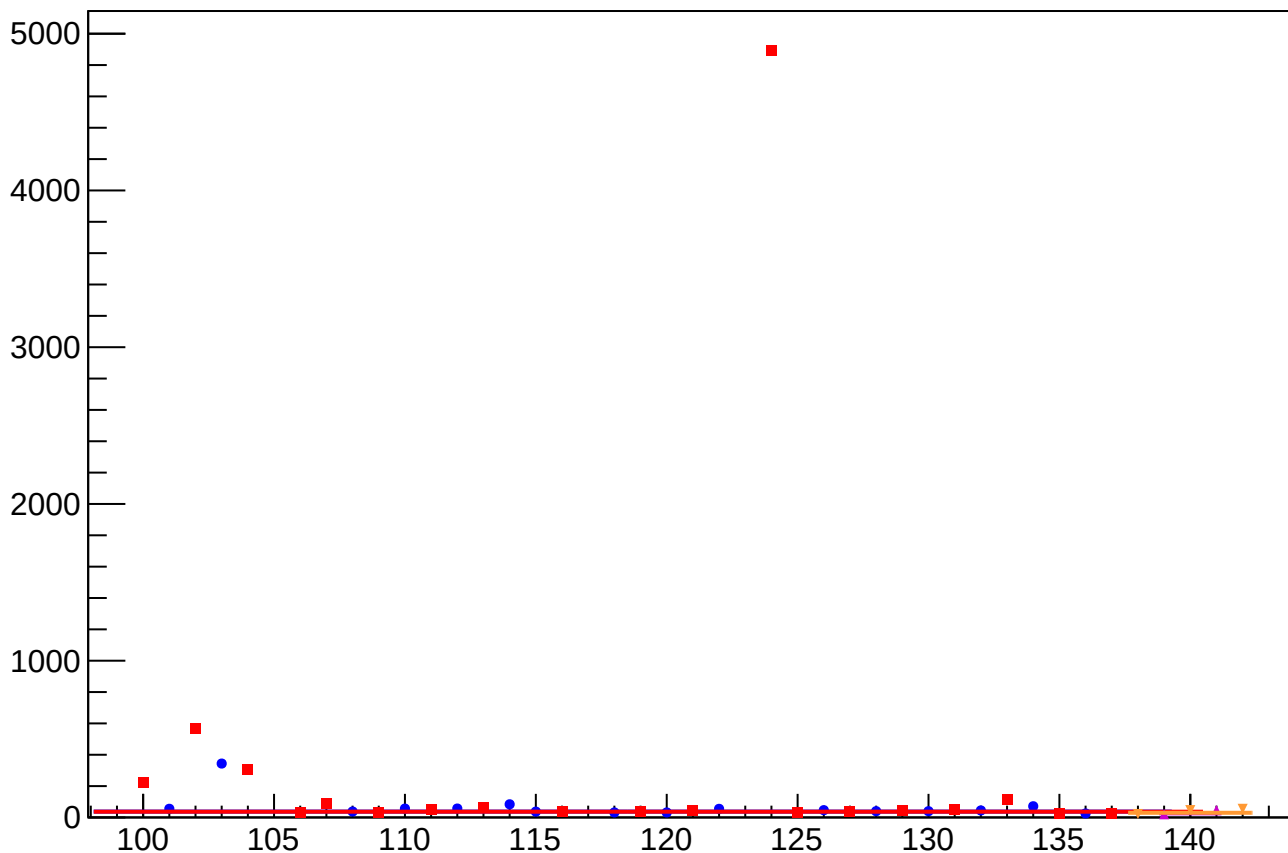
Right: 0.010+/-0.012 χ^2/NDF : 31.9/34

In: 0.005+/-0.013 χ^2/NDF : 20.9/17

Out: 0.003+/-0.014 χ^2/NDF : 15.8/21

All: 0.004+/-0.010 χ^2/NDF : 36.7/39

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.494 $\pm$ 0.011 χ^2 /NDF: 1983275.6/15

Left Out: 29.781 $\pm$ 0.017 χ^2 /NDF: 530972.8/2

Right Out: 36.767 $\pm$ 0.012 χ^2 /NDF: 3190700.2/18

Left In: 26.130 $\pm$ 0.017 χ^2 /NDF: 417356.7/1

Left: 27.956 $\pm$ 0.012 χ^2 /NDF: 971086.9/4

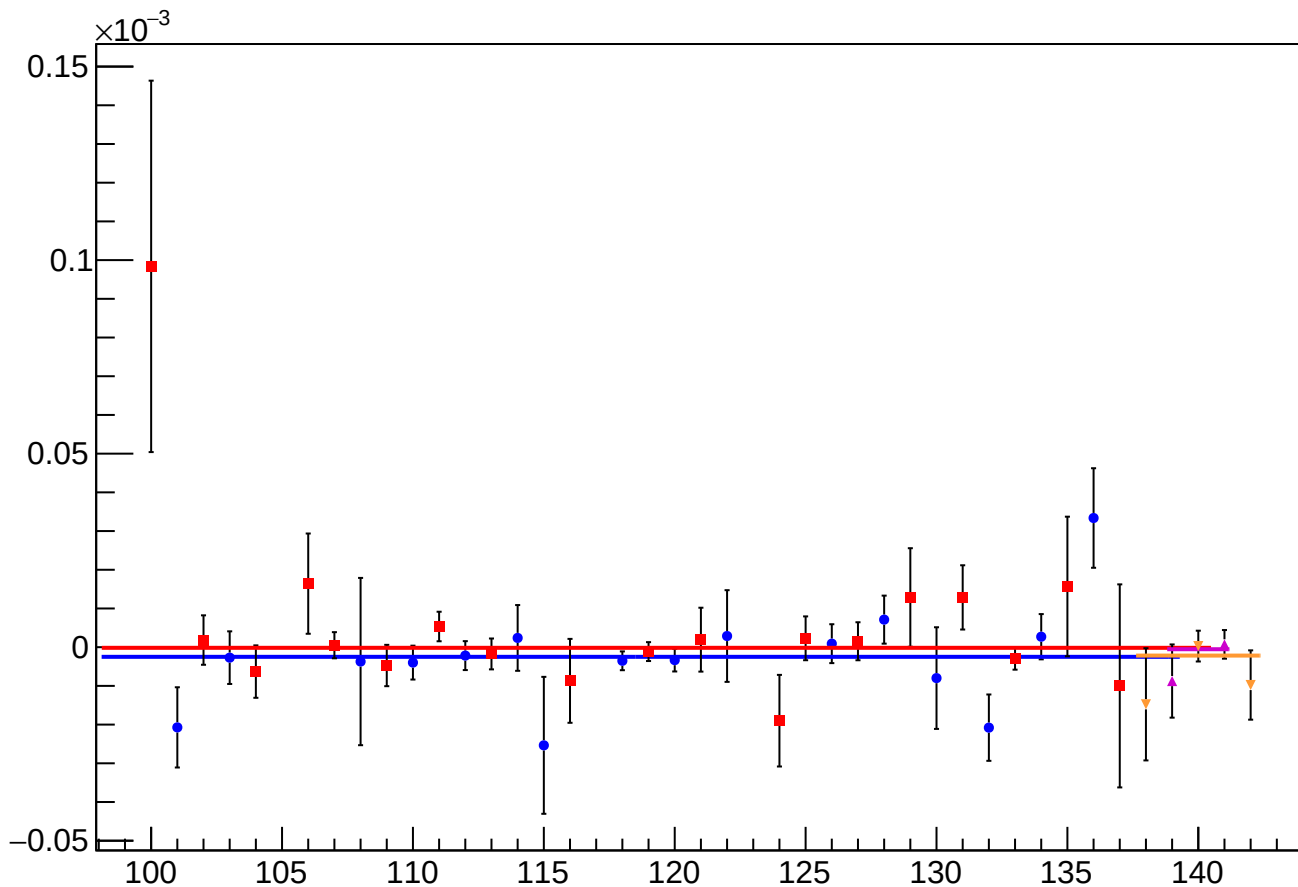
Right: 37.143 $\pm$ 0.008 χ^2 /NDF: 5175953.4/34

In: 34.015 $\pm$ 0.009 χ^2 /NDF: 2706564.2/17

Out: 34.528 $\pm$ 0.010 χ^2 /NDF: 3834984.1/21

All: 34.265 $\pm$ 0.007 χ^2 /NDF: 6542982.4/39

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 21.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 18.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.9/1

Left: -0.000+/-0.000 χ^2/NDF : 2.8/4

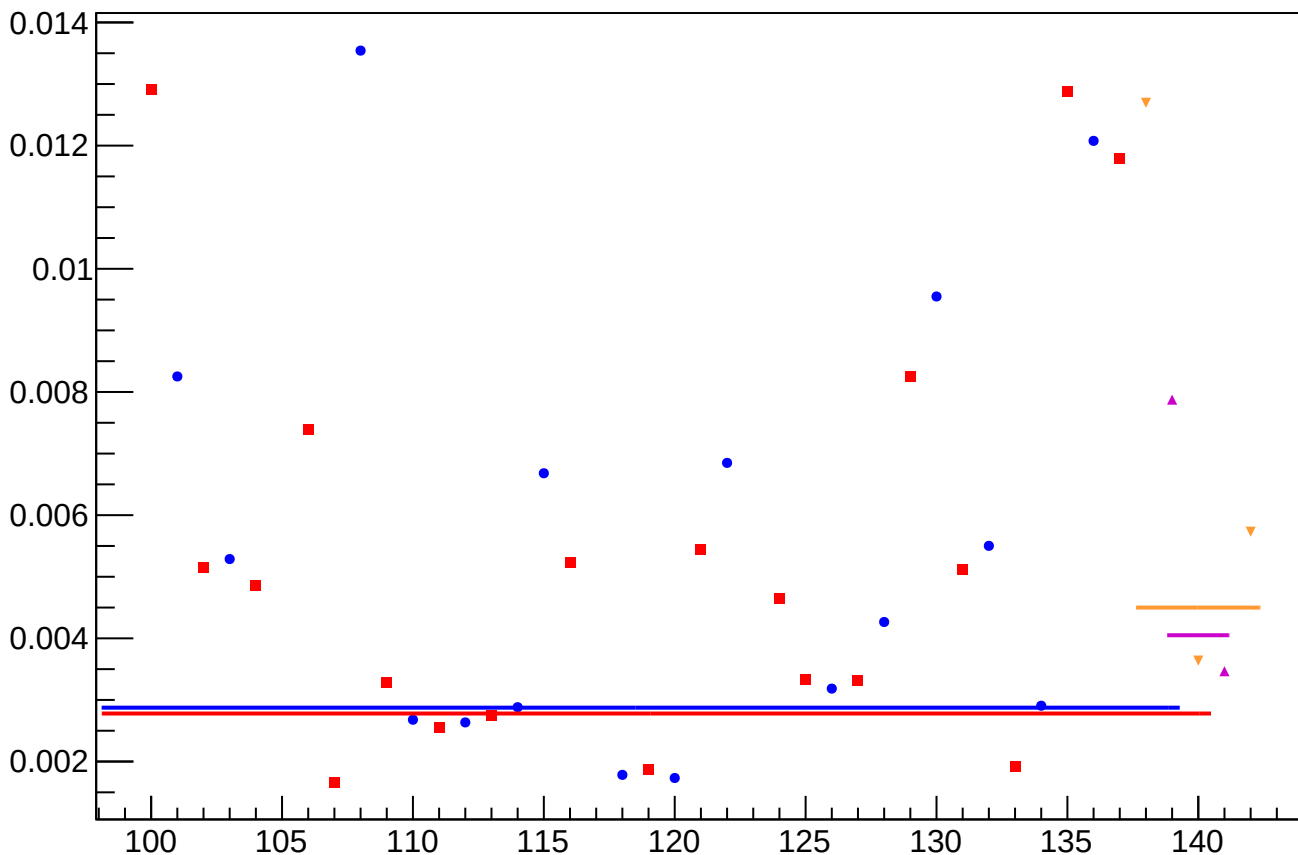
Right: -0.000+/-0.000 χ^2/NDF : 42.5/34

In: -0.000+/-0.000 χ^2/NDF : 23.0/17

Out: -0.000+/-0.000 χ^2/NDF : 21.0/21

All: -0.000+/-0.000 χ^2/NDF : 45.3/39

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000

χ^2/NDF : 4152056.9/15

Left Out: 0.004+/-0.000

χ^2/NDF : 771050.3/2

Right Out: 0.003+/-0.000

χ^2/NDF : 3311178.7/18

Left In: 0.004+/-0.000

χ^2/NDF : 377253.9/1

Left: 0.004+/-0.000

χ^2/NDF : 1164918.1/4

Right: 0.003+/-0.000

χ^2/NDF : 7469105.0/34

In: 0.003+/-0.000

χ^2/NDF : 4733338.9/17

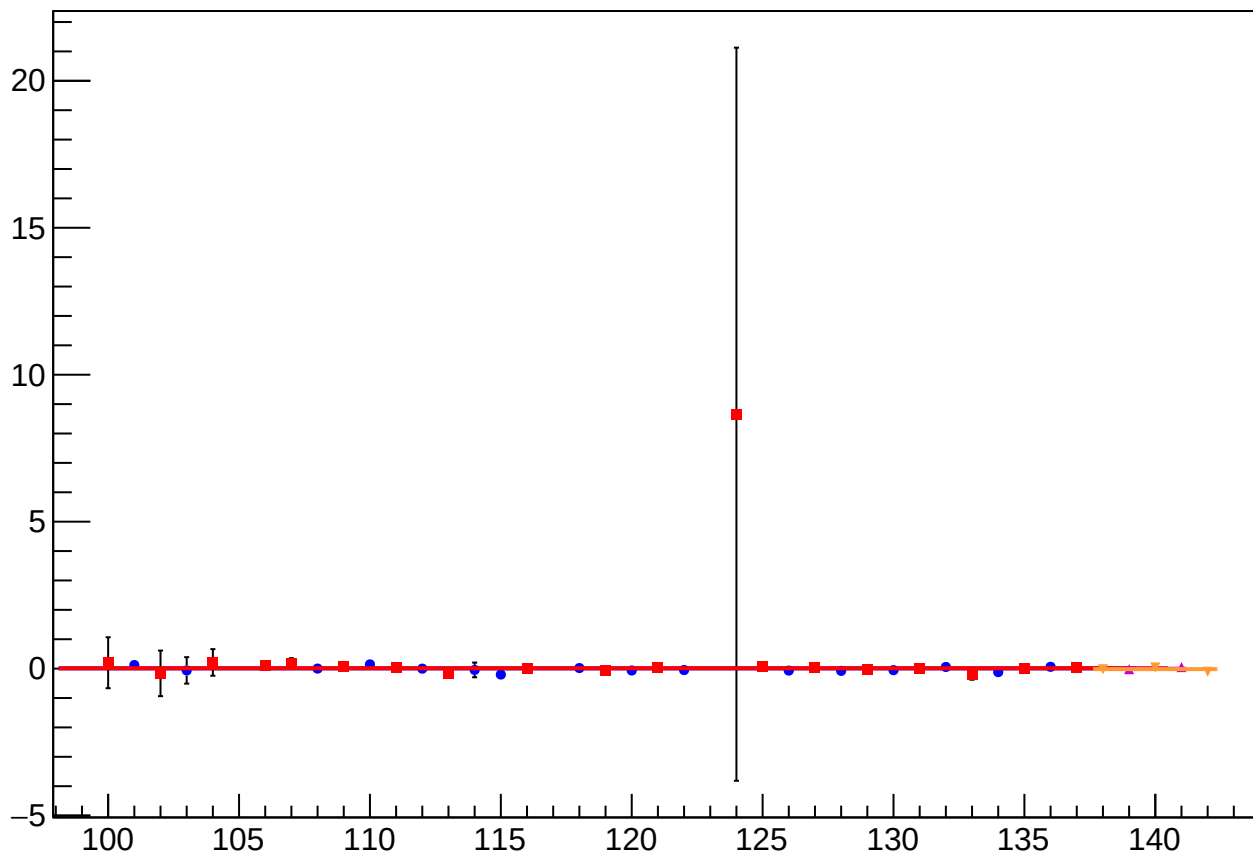
Out: 0.003+/-0.000

χ^2/NDF : 4510641.1/21

All: 0.003+/-0.000

χ^2/NDF : 9247713.2/39

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008+/-0.016 χ^2/NDF : 19.3/15

Left Out: -0.017+/-0.024 χ^2/NDF : 2.3/2

Right Out: 0.013+/-0.017 χ^2/NDF : 12.6/18

Left In: -0.003+/-0.024 χ^2/NDF : 1.4/1

Left: -0.010+/-0.017 χ^2/NDF : 3.9/4

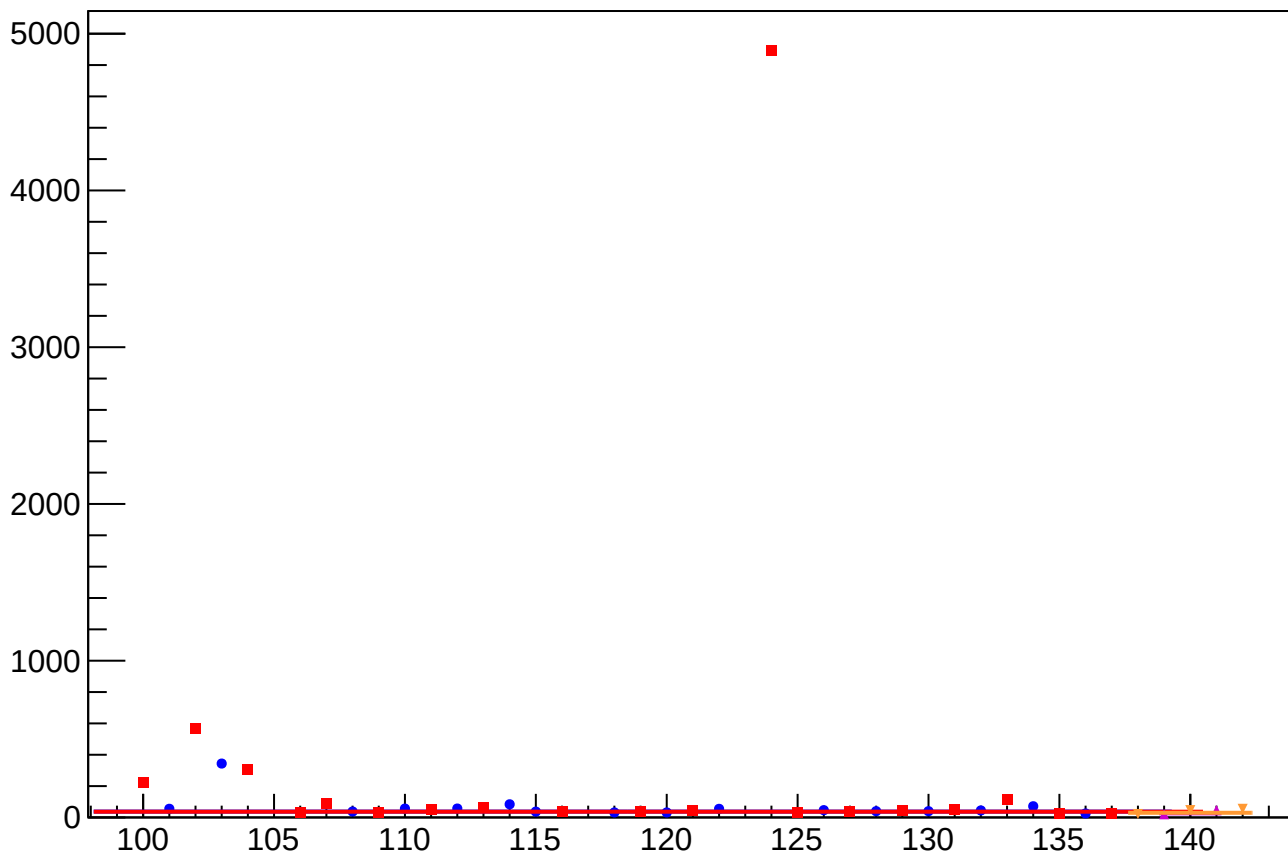
Right: 0.010+/-0.012 χ^2/NDF : 31.9/34

In: 0.005+/-0.013 χ^2/NDF : 20.9/17

Out: 0.003+/-0.014 χ^2/NDF : 15.8/21

All: 0.004+/-0.010 χ^2/NDF : 36.7/39

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.495+/-0.011 χ^2/NDF : 1983206.3/15

Left Out: 29.777+/-0.017 χ^2/NDF : 531269.7/2

Right Out: 36.769+/-0.012 χ^2/NDF : 3190400.7/18

Left In: 26.140+/-0.017 χ^2/NDF : 417082.2/1

Left: 27.959+/-0.012 χ^2/NDF : 970933.2/4

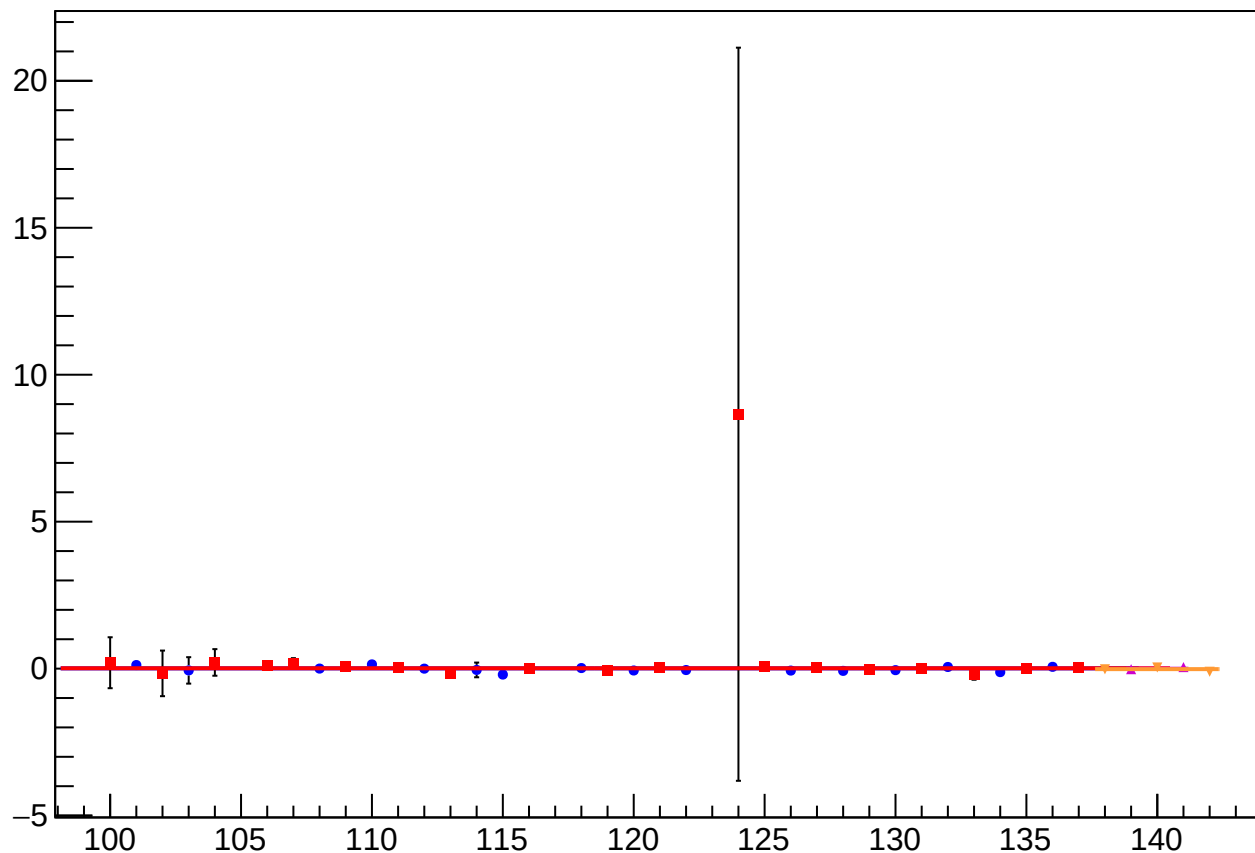
Right: 37.144+/-0.008 χ^2/NDF : 5175578.4/34

In: 34.019+/-0.009 χ^2/NDF : 2705627.8/17

Out: 34.527+/-0.010 χ^2/NDF : 3835178.0/21

All: 34.267+/-0.007 χ^2/NDF : 6542212.7/39

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008+/-0.016 χ^2/NDF : 19.3/15

Left Out: -0.017+/-0.024 χ^2/NDF : 2.3/2

Right Out: 0.013+/-0.017 χ^2/NDF : 12.6/18

Left In: -0.003+/-0.024 χ^2/NDF : 1.4/1

Left: -0.010+/-0.017 χ^2/NDF : 3.9/4

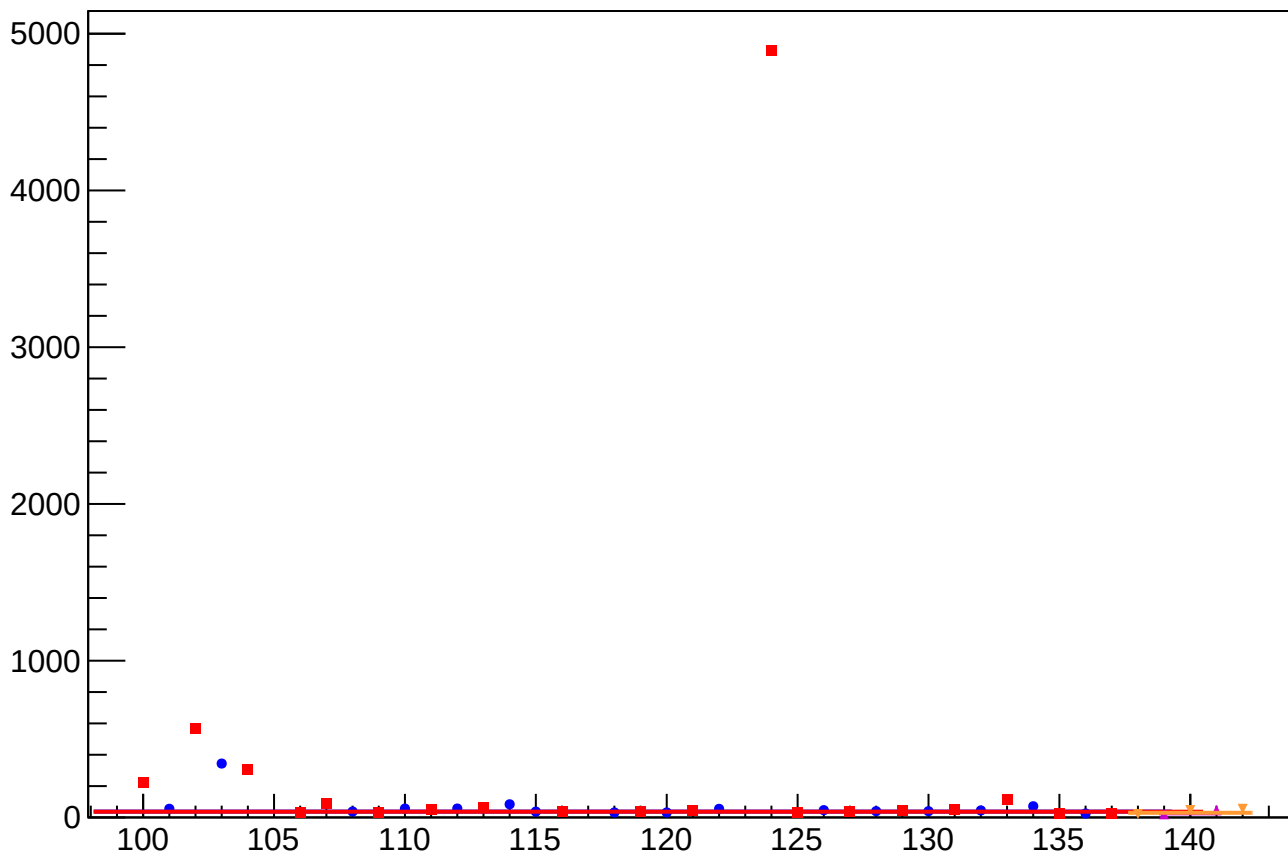
Right: 0.010+/-0.012 χ^2/NDF : 31.9/34

In: 0.005+/-0.013 χ^2/NDF : 20.9/17

Out: 0.003+/-0.014 χ^2/NDF : 15.8/21

All: 0.004+/-0.010 χ^2/NDF : 36.7/39

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.495+/-0.011 χ^2/NDF : 1983206.3/15

Left Out: 29.777+/-0.017 χ^2/NDF : 531269.7/2

Right Out: 36.769+/-0.012 χ^2/NDF : 3190400.7/18

Left In: 26.140+/-0.017 χ^2/NDF : 417082.2/1

Left: 27.959+/-0.012 χ^2/NDF : 970933.2/4

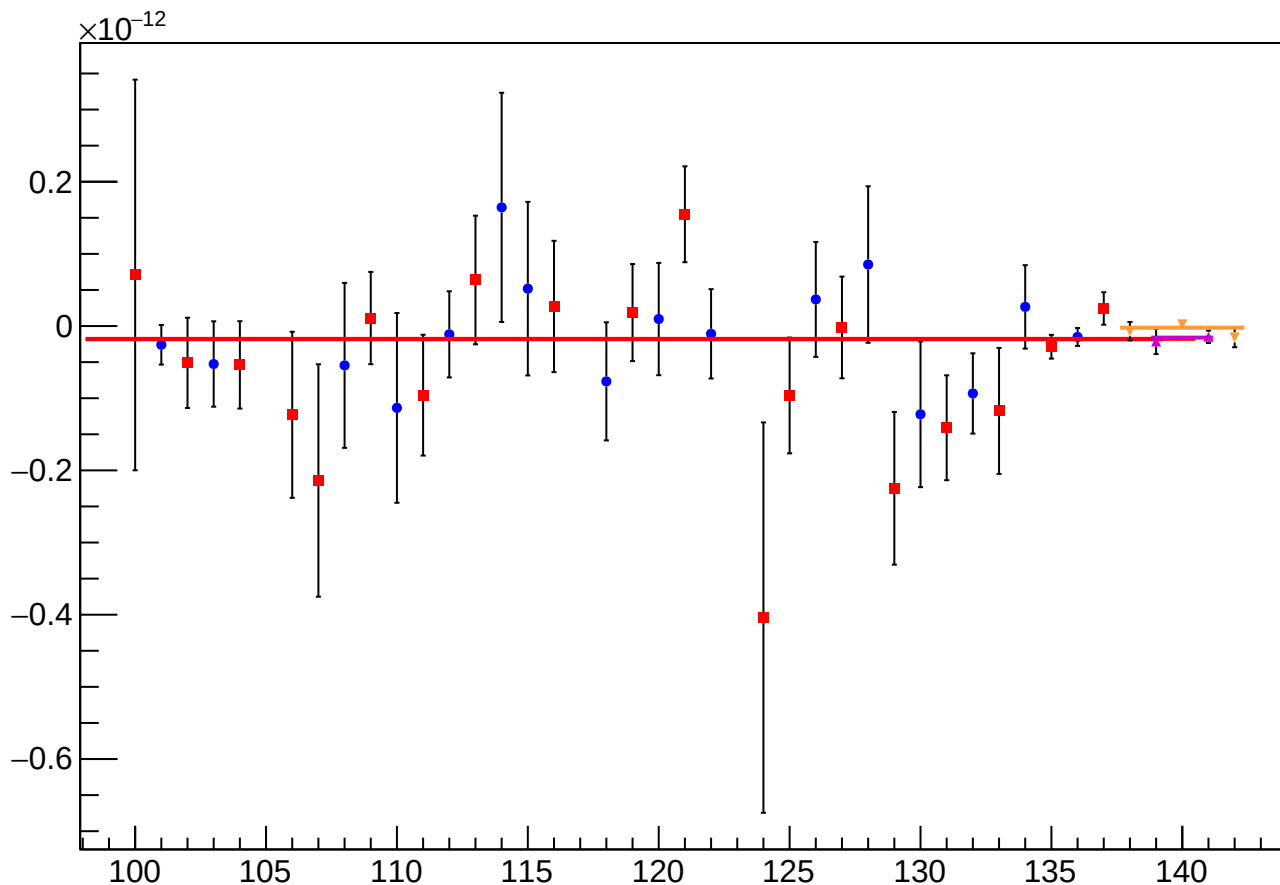
Right: 37.144+/-0.008 χ^2/NDF : 5175578.4/34

In: 34.019+/-0.009 χ^2/NDF : 2705627.8/17

Out: 34.527+/-0.010 χ^2/NDF : 3835178.0/21

All: 34.267+/-0.007 χ^2/NDF : 6542212.7/39

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 8.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.6/2

Right Out: -0.000+/-0.000 χ^2/NDF : 27.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.1/1

Left: -0.000+/-0.000 χ^2/NDF : 3.8/4

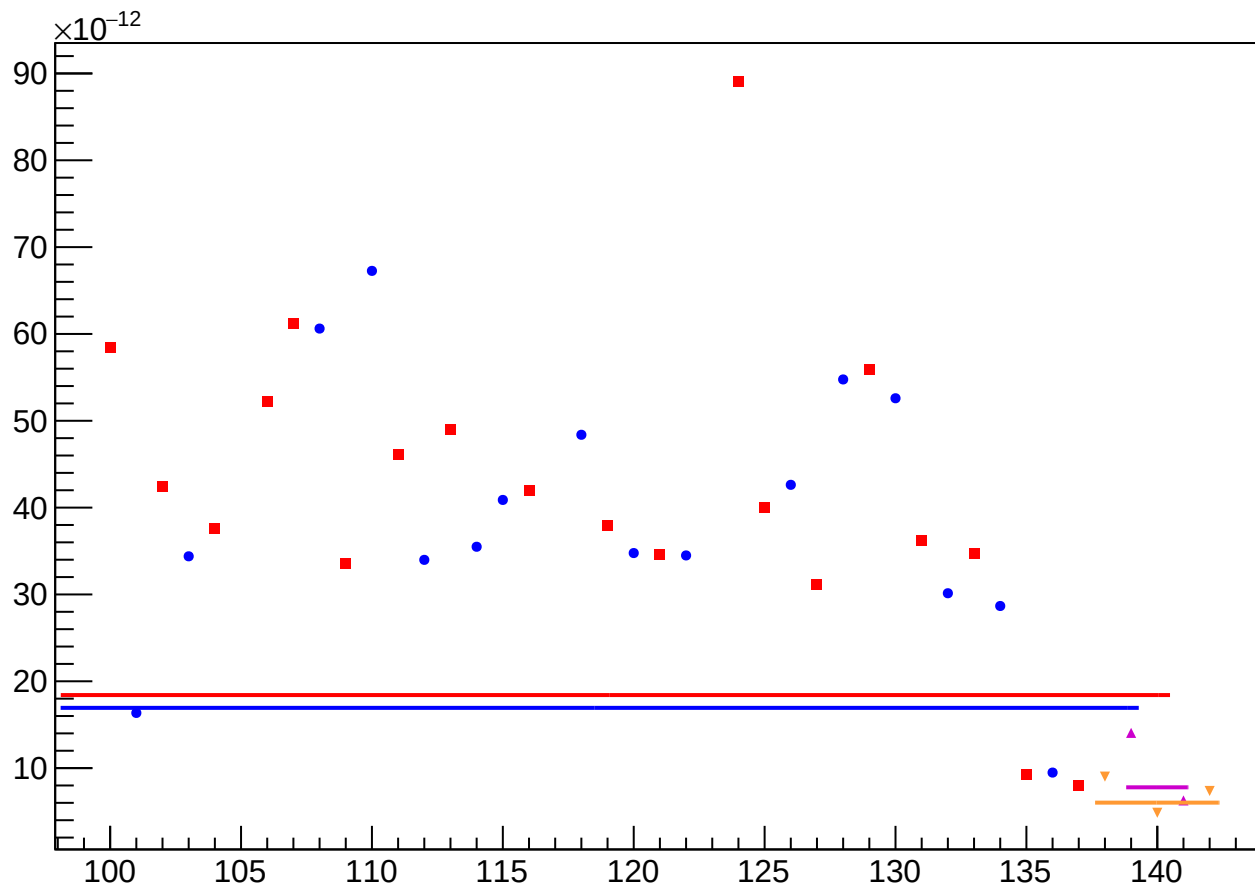
Right: -0.000+/-0.000 χ^2/NDF : 35.6/34

In: -0.000+/-0.000 χ^2/NDF : 8.5/17

Out: -0.000+/-0.000 χ^2/NDF : 30.4/21

All: -0.000+/-0.000 χ^2/NDF : 41.0/39

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3207856.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :189485.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3674861.8/18

Left In: 0.000+/-0.000 χ^2/NDF :316105.3/1

Left: 0.000+/-0.000 χ^2/NDF : 574803.3/4

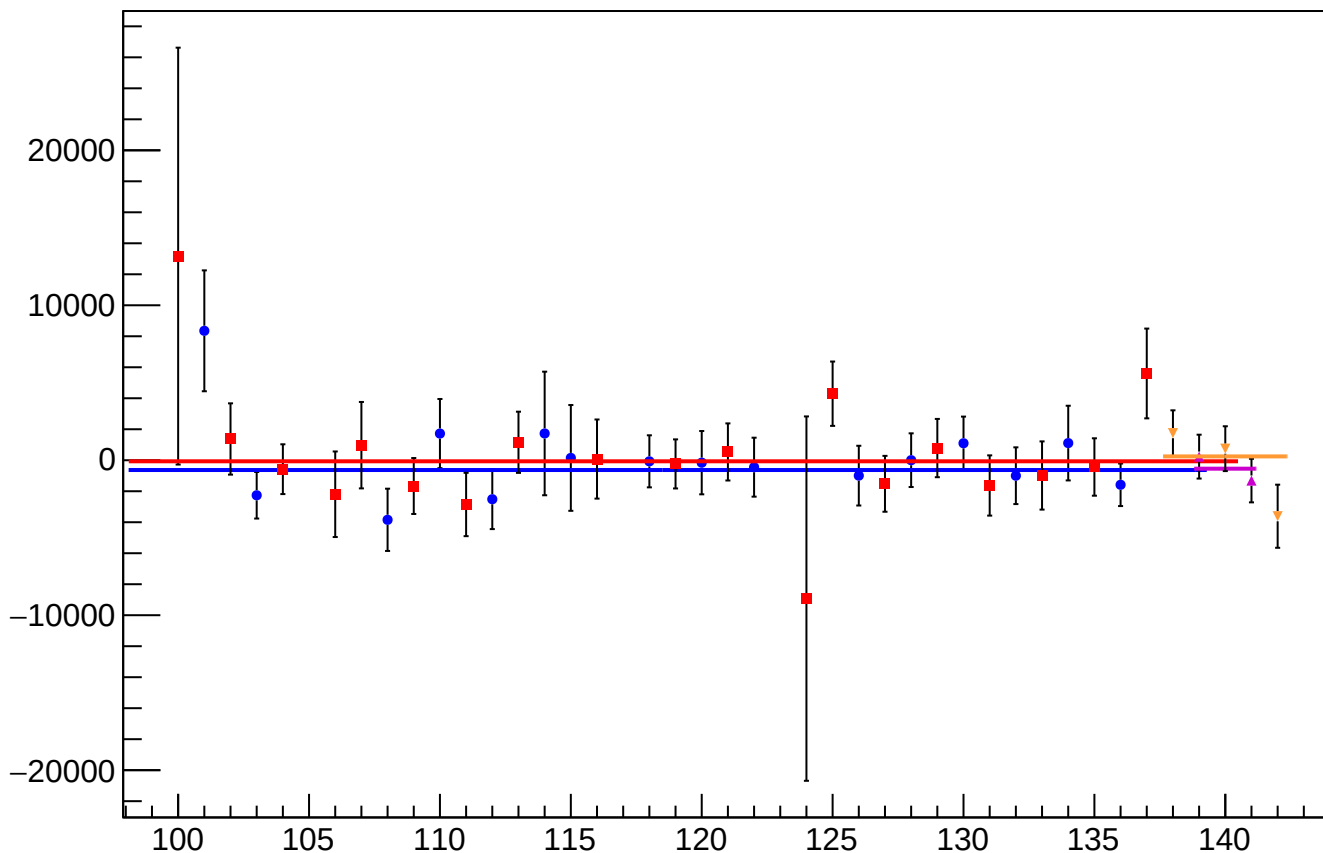
Right: 0.000+/-0.000 χ^2/NDF : 6902390.3/34

In: 0.000+/-0.000 χ^2/NDF :4582731.3/17

Out: 0.000+/-0.000 χ^2/NDF :5882033.1/21

All: 0.000+/-0.000 χ^2/NDF : 10719314.2/39

reg_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -631.041+/-488.663 χ^2/NDF : 13.9/15

Left Out: 247.683+/-920.243 χ^2/NDF : 4.8/2

Right Out: -67.642+/-487.761 χ^2/NDF : 15.9/18

Left In: -544.636+/-997.379 χ^2/NDF : 0.6/1

Left: -116.657+/-676.338 χ^2/NDF : 5.7/4

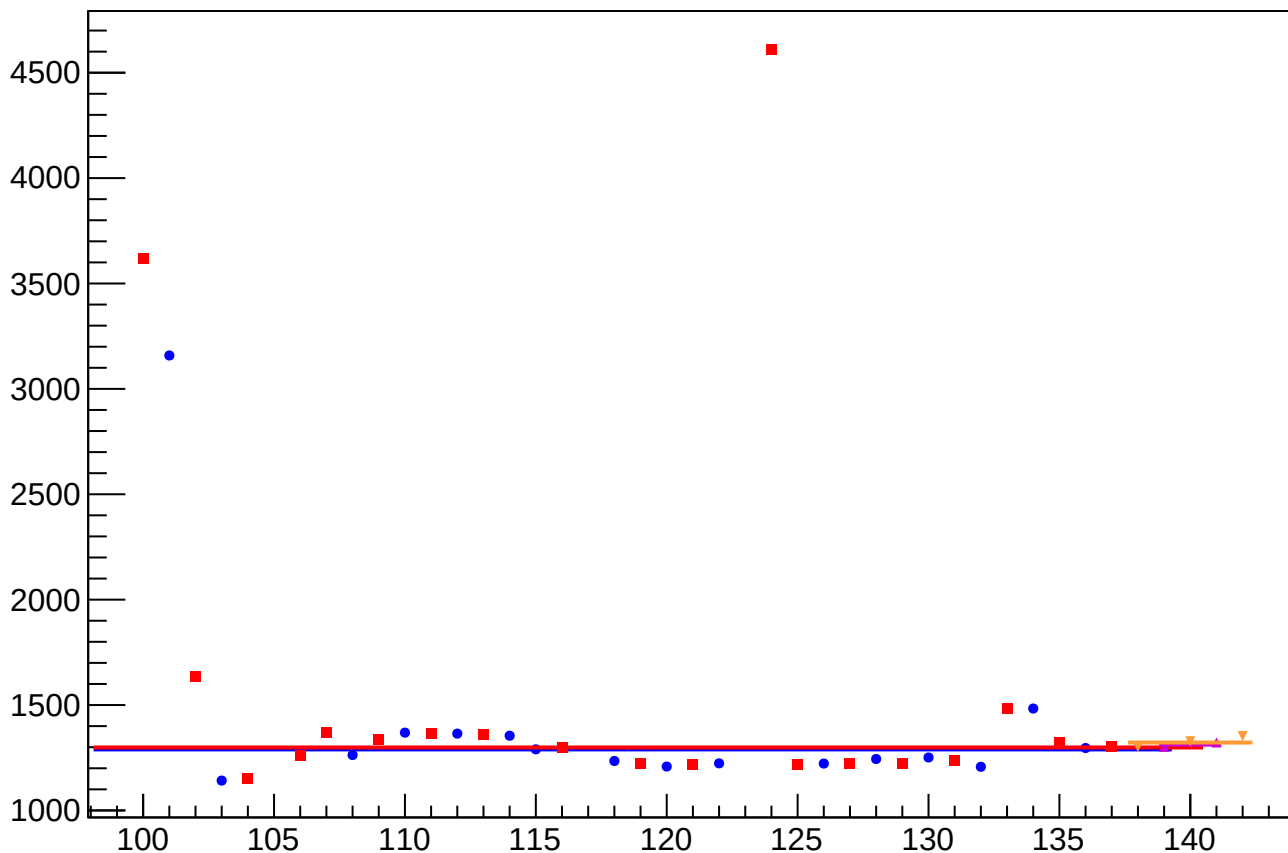
Right: -348.821+/-345.217 χ^2/NDF : 30.4/34

In: -614.315+/-438.824 χ^2/NDF : 14.5/17

Out: 1.515+/-430.966 χ^2/NDF : 20.7/21

All: -300.837+/-307.479 χ^2/NDF : 36.2/39

reg_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514675.0/15

Left Out: 1322.159+/-0.651 χ^2/NDF : 909.7/2

Right Out: 1298.656+/-0.344 χ^2/NDF : 319374.9/18

Left In: 1312.384+/-0.705 χ^2/NDF : 216.7/1

Left: 1317.664+/-0.478 χ^2/NDF : 1230.2/4

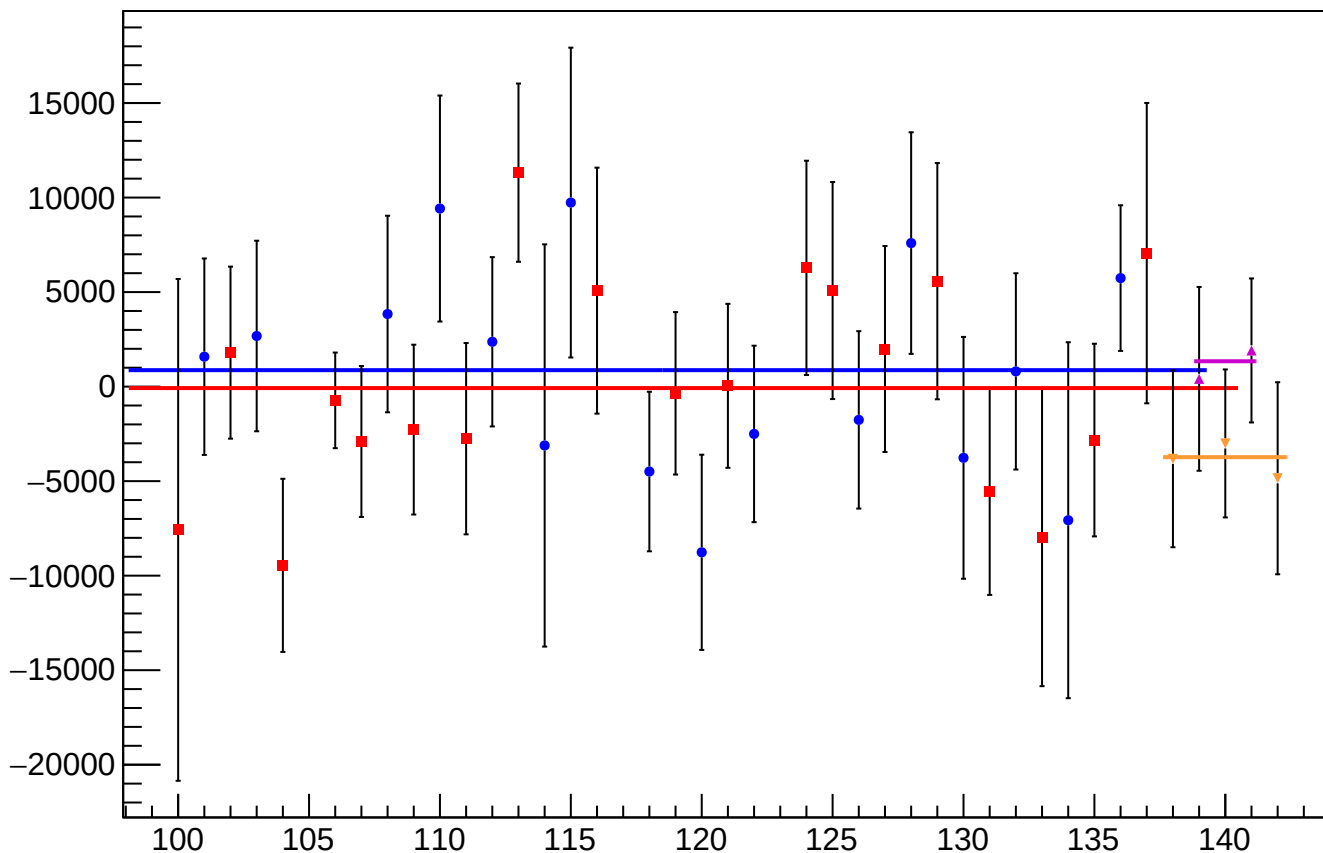
Right: 1294.081+/-0.244 χ^2/NDF : 834405.1/34

In: 1293.903+/-0.310 χ^2/NDF : 515743.3/17

Out: 1303.789+/-0.304 χ^2/NDF : 321304.2/21

All: 1298.945+/-0.217 χ^2/NDF : 837565.4/39

asym_at1_avg_at2_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 870.295 $\pm$ 1325.278 χ^2 /NDF: 14.0/15

Left Out: -3731.672 $\pm$ 2583.711 χ^2 /NDF:0.1/2

Right Out: -77.323 $\pm$ 1111.074 χ^2 /NDF: 18.4/18

Left In: 1340.957 $\pm$ 2998.457 χ^2 /NDF:0.1/1

Left: -1570.177 $\pm$ 1957.305 χ^2 /NDF: 1.8/4

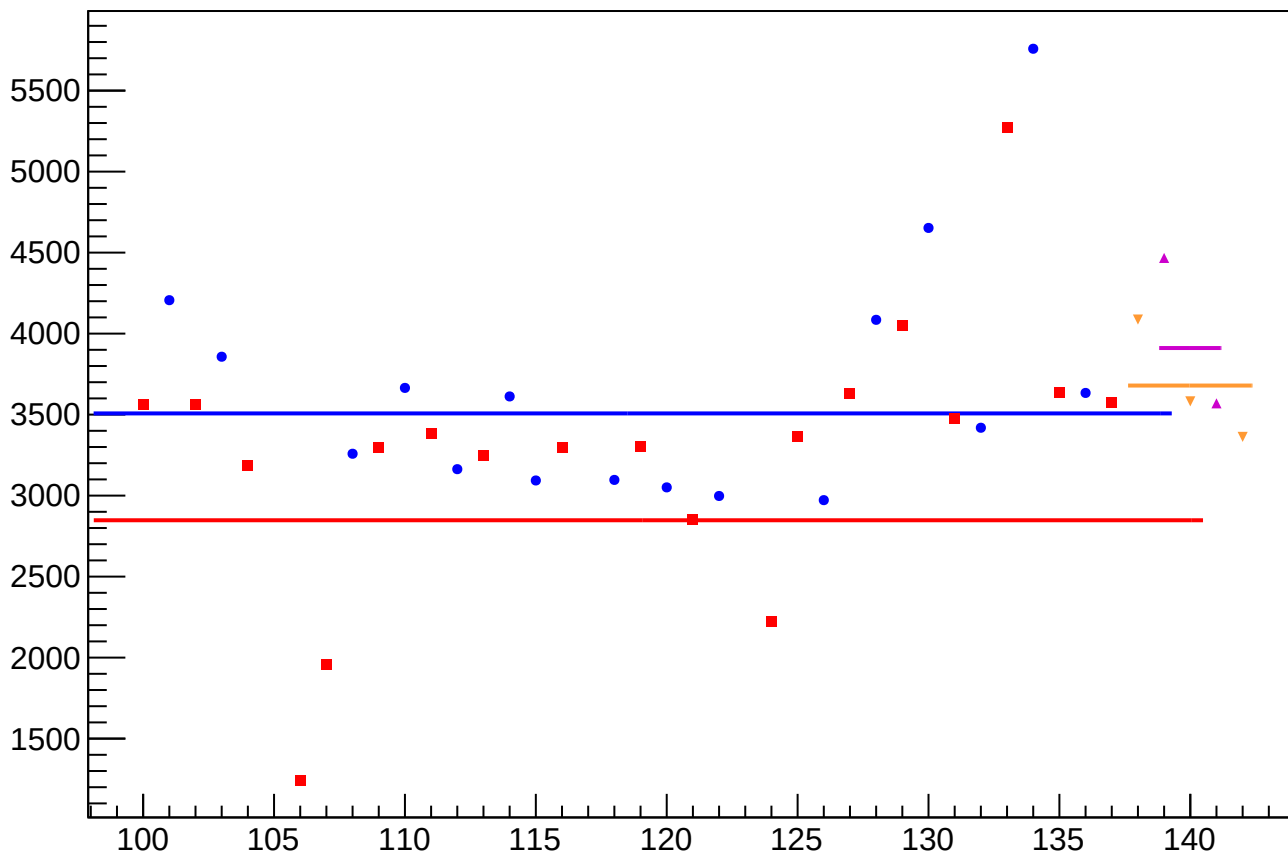
Right: 313.810 $\pm$ 851.438 χ^2 /NDF: 32.7/34

In: 947.213 $\pm$ 1212.158 χ^2 /NDF:14.1/17

Out: -647.641 $\pm$ 1020.698 χ^2 /NDF:20.1/21

All: 14.031 $\pm$ 780.765 χ^2 /NDF: 35.3/39

asym_at1_avg_at2_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3507.397+/-0.937 χ^2/NDF : 353979.1/15

Left Out: 3679.410+/-1.827 χ^2/NDF : 24220.0/2

Right Out: 2847.833+/-0.786 χ^2/NDF : 1499373.6/18

Left In: 3910.991+/-2.120 χ^2/NDF : 42242.3/1

Left: 3778.089+/-1.384 χ^2/NDF : 73308.7/4

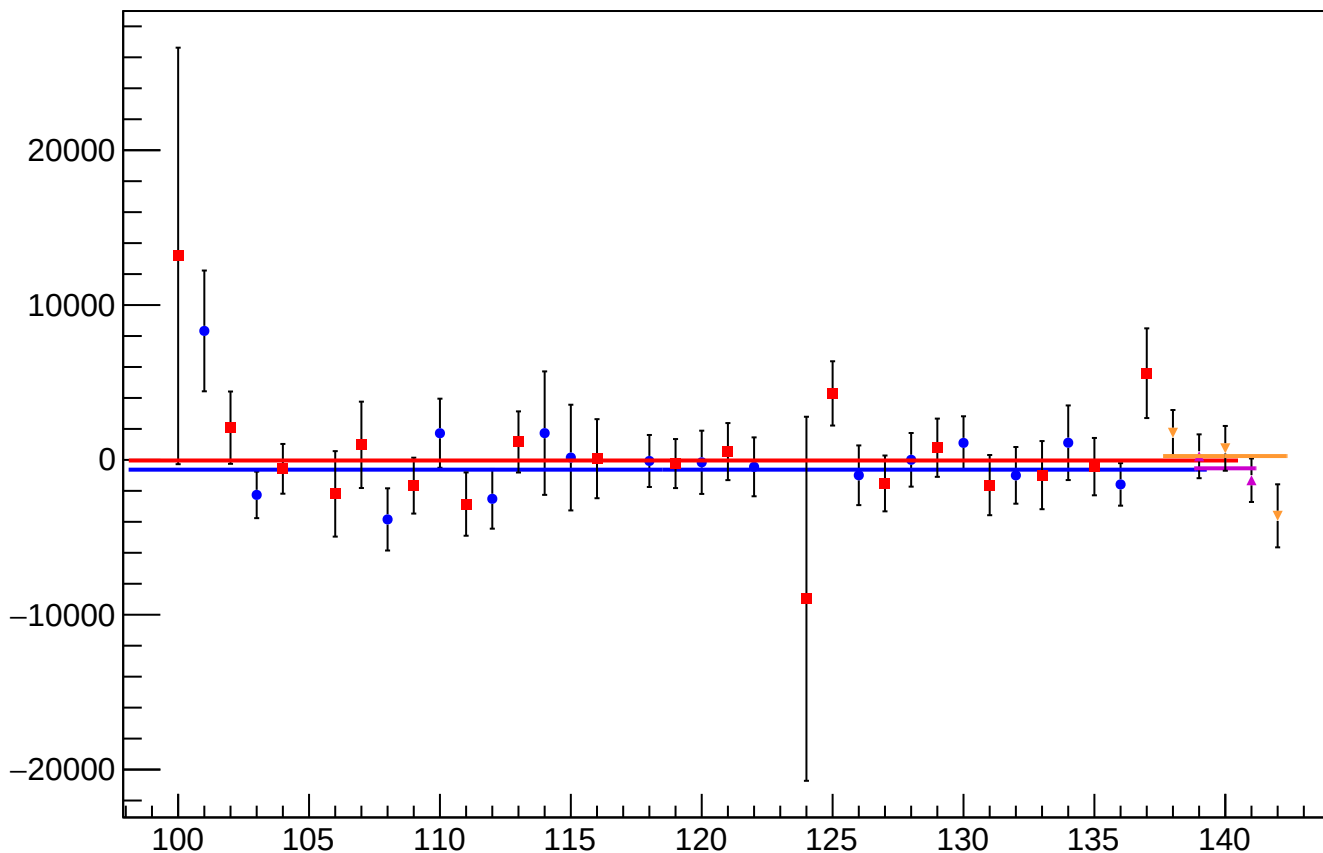
Right: 3120.071+/-0.602 χ^2/NDF : 2144256.9/34

In: 3573.355+/-0.857 χ^2/NDF : 426534.2/17

Out: 2977.613+/-0.722 χ^2/NDF : 1698439.6/21

All: 3224.774+/-0.552 χ^2/NDF : 2407639.6/39

cor_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2/NDF : 13.9/15

Left Out: 247.692+/-920.243 χ^2/NDF : 4.8/2

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -544.413+/-997.379 χ^2/NDF : 0.6/1

Left: -116.550+/-676.338 χ^2/NDF : 5.7/4

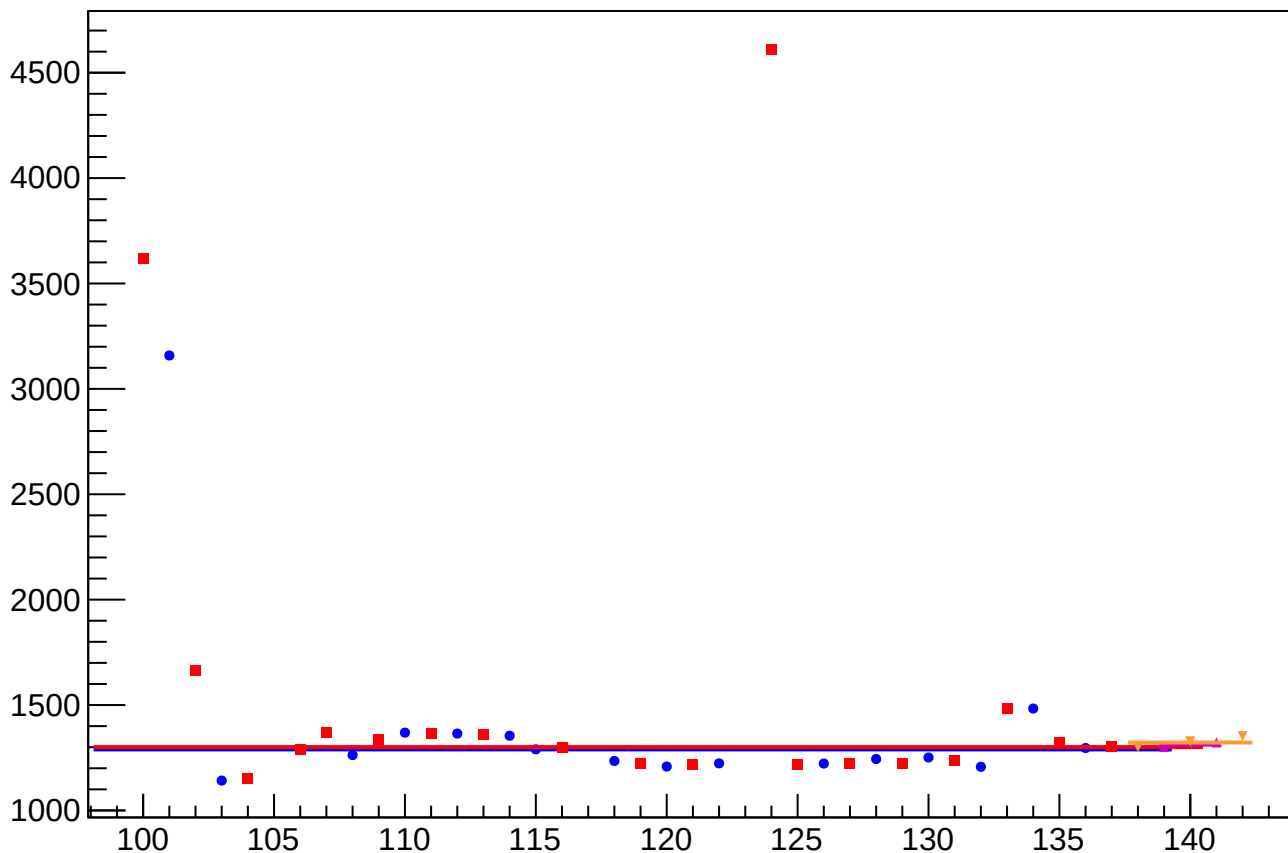
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -614.583+/-438.824 χ^2/NDF : 14.5/17

Out: 24.237+/-431.189 χ^2/NDF : 21.2/21

All: -289.567+/-307.560 χ^2/NDF : 36.7/39

cor_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514676.5/15

Left Out: 1322.159+/-0.651 χ^2/NDF : 909.7/2

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1312.384+/-0.705 χ^2/NDF : 216.7/1

Left: 1317.664+/-0.478 χ^2/NDF : 1230.2/4

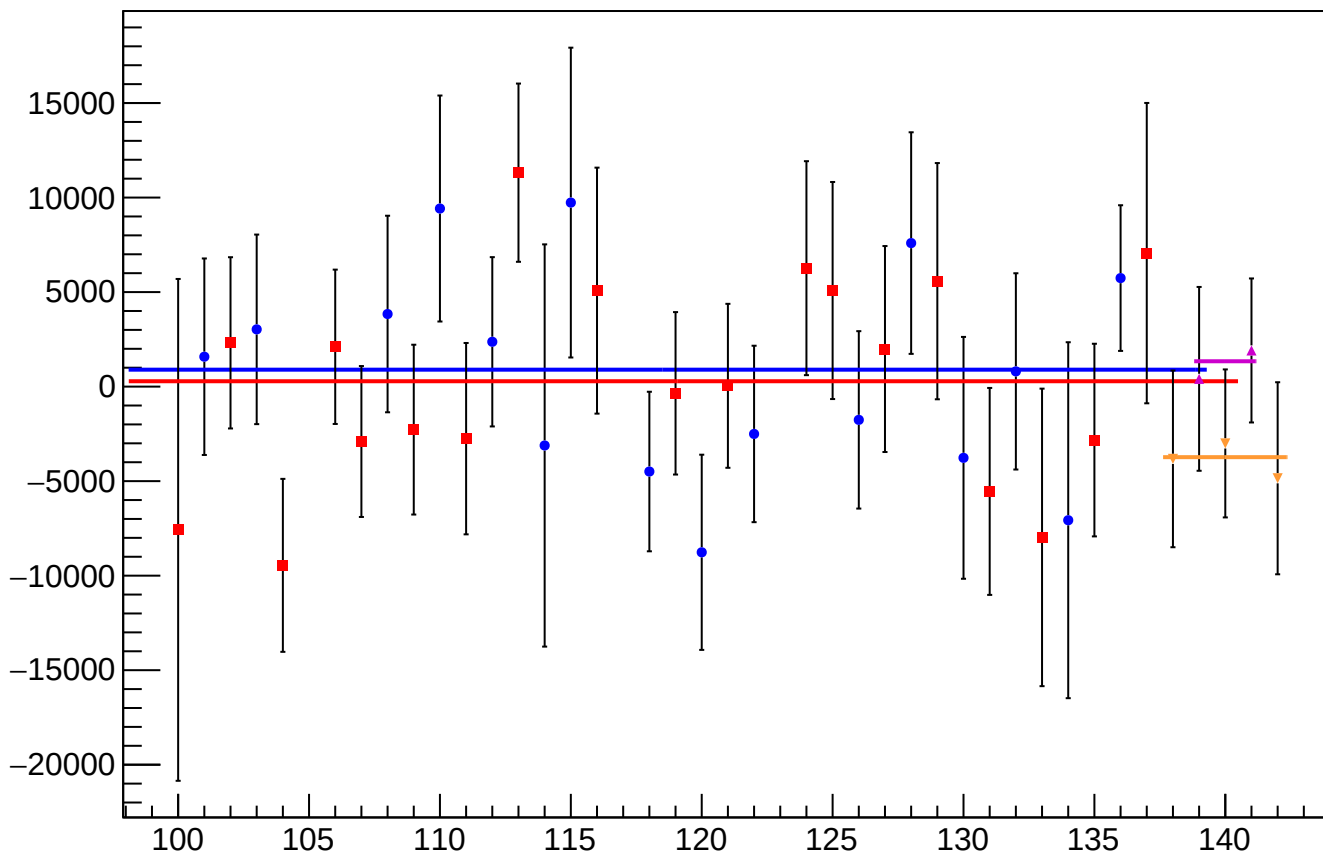
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1293.902+/-0.310 χ^2/NDF : 515744.8/17

Out: 1305.385+/-0.304 χ^2/NDF : 327668.1/21

All: 1299.753+/-0.217 χ^2/NDF : 844110.6/39

asym_at1_avg_at2_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017 ± 1324.823 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -3731.705 ± 2583.709 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 283.963 ± 1183.171 $\chi^2/\text{NDF}: 18.6/18$

Left In: 1340.949 ± 2998.450 $\chi^2/\text{NDF}: 0.1/1$

Left: -1570.196 ± 1957.302 $\chi^2/\text{NDF}: 1.8/4$

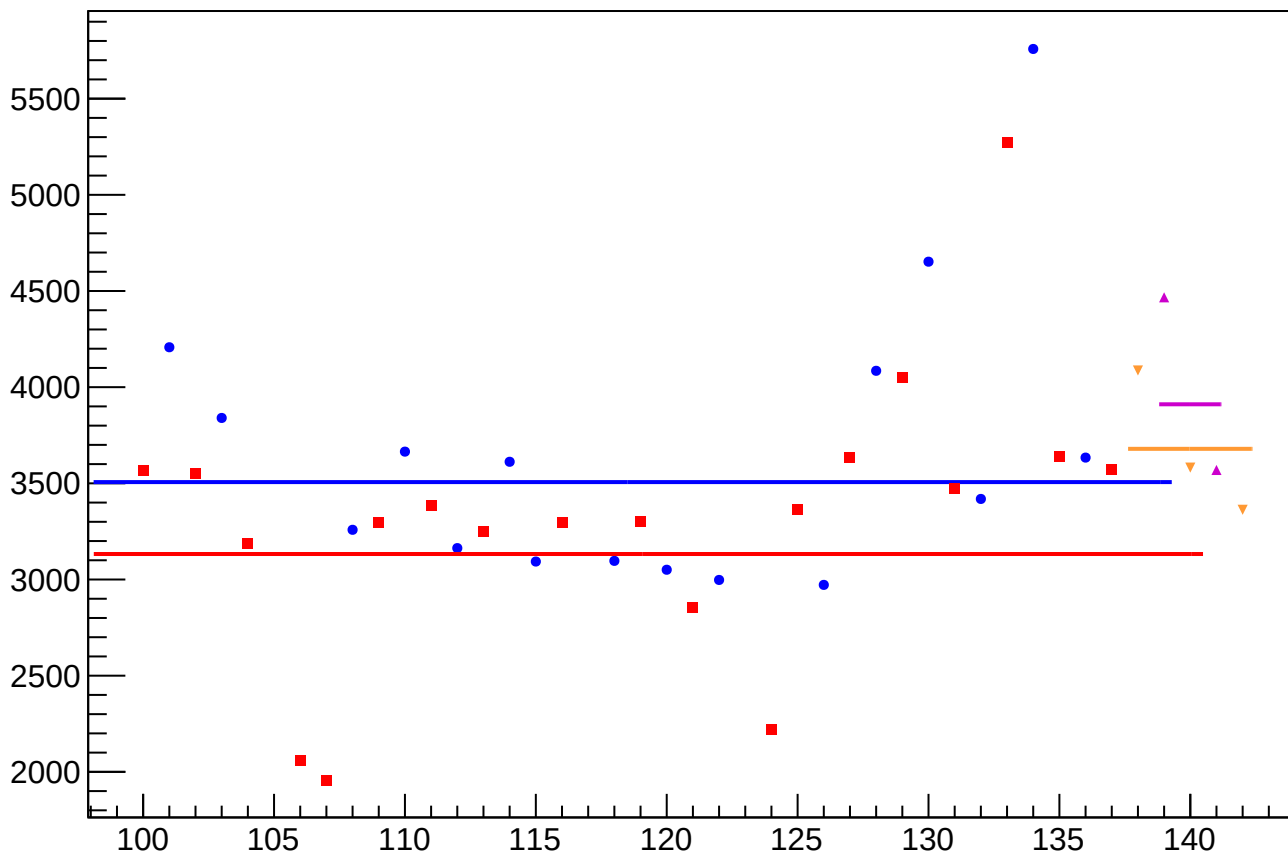
Right: 555.531 ± 882.475 $\chi^2/\text{NDF}: 32.8/34$

In: 968.689 ± 1211.809 $\chi^2/\text{NDF}: 14.2/17$

Out: -412.161 ± 1075.742 $\chi^2/\text{NDF}: 20.7/21$

All: 196.418 ± 804.488 $\chi^2/\text{NDF}: 35.6/39$

asym_at1_avg_at2_avg_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484+/-0.937 χ^2/NDF : 353237.7/15

Left Out: 3679.407+/-1.827 χ^2/NDF : 24219.8/2

Right Out: 3132.586+/-0.837 χ^2/NDF : 649611.1/18

Left In: 3910.982+/-2.120 χ^2/NDF : 42241.5/1

Left: 3778.084+/-1.384 χ^2/NDF : 73307.5/4

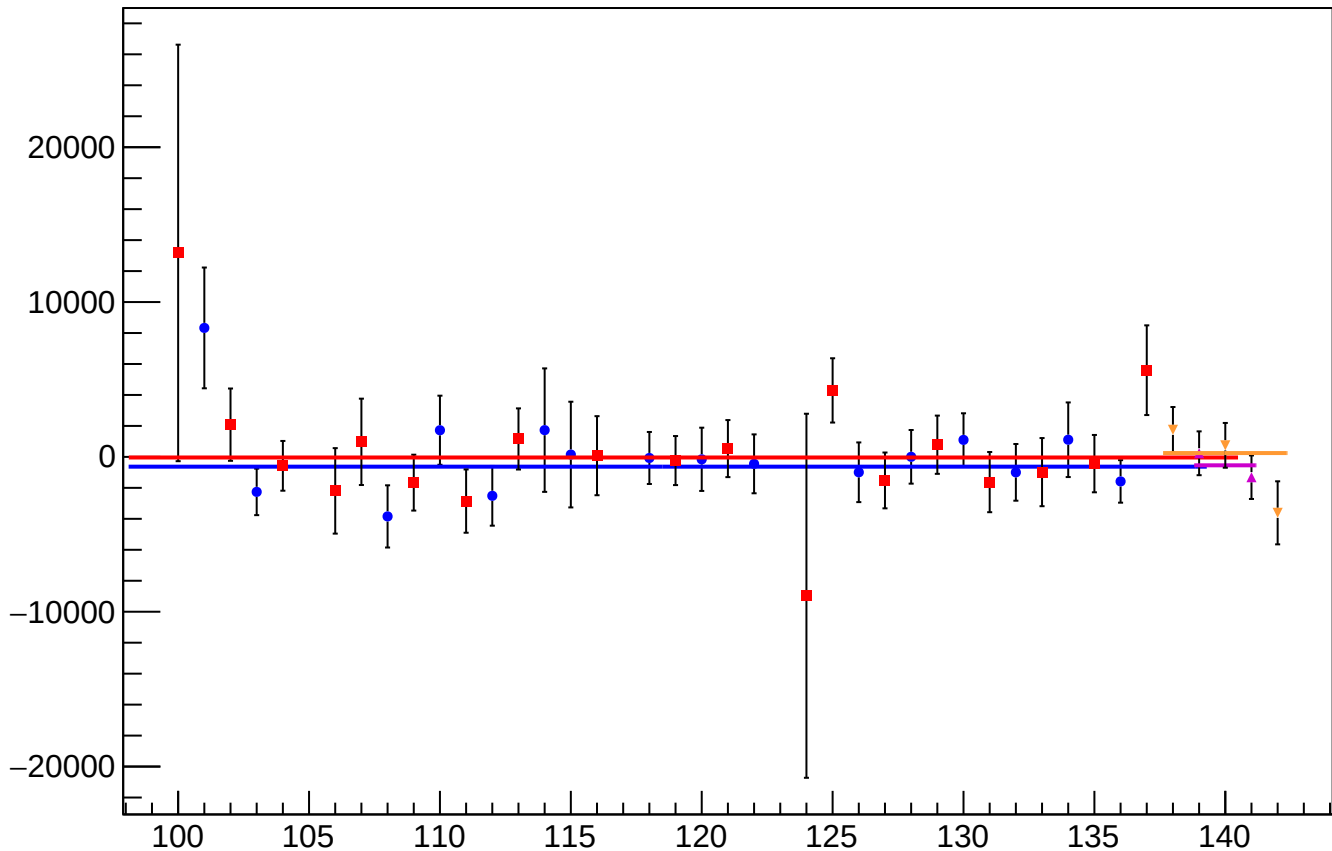
Right: 3298.485+/-0.624 χ^2/NDF : 1091468.2/34

In: 3572.552+/-0.857 χ^2/NDF : 425931.7/17

Out: 3227.379+/-0.761 χ^2/NDF : 747885.7/21

All: 3379.506+/-0.569 χ^2/NDF : 1264569.9/39

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2/NDF : 13.9/15

Left Out: 247.692+/-920.243 χ^2/NDF : 4.8/2

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -544.413+/-997.379 χ^2/NDF : 0.6/1

Left: -116.550+/-676.338 χ^2/NDF : 5.7/4

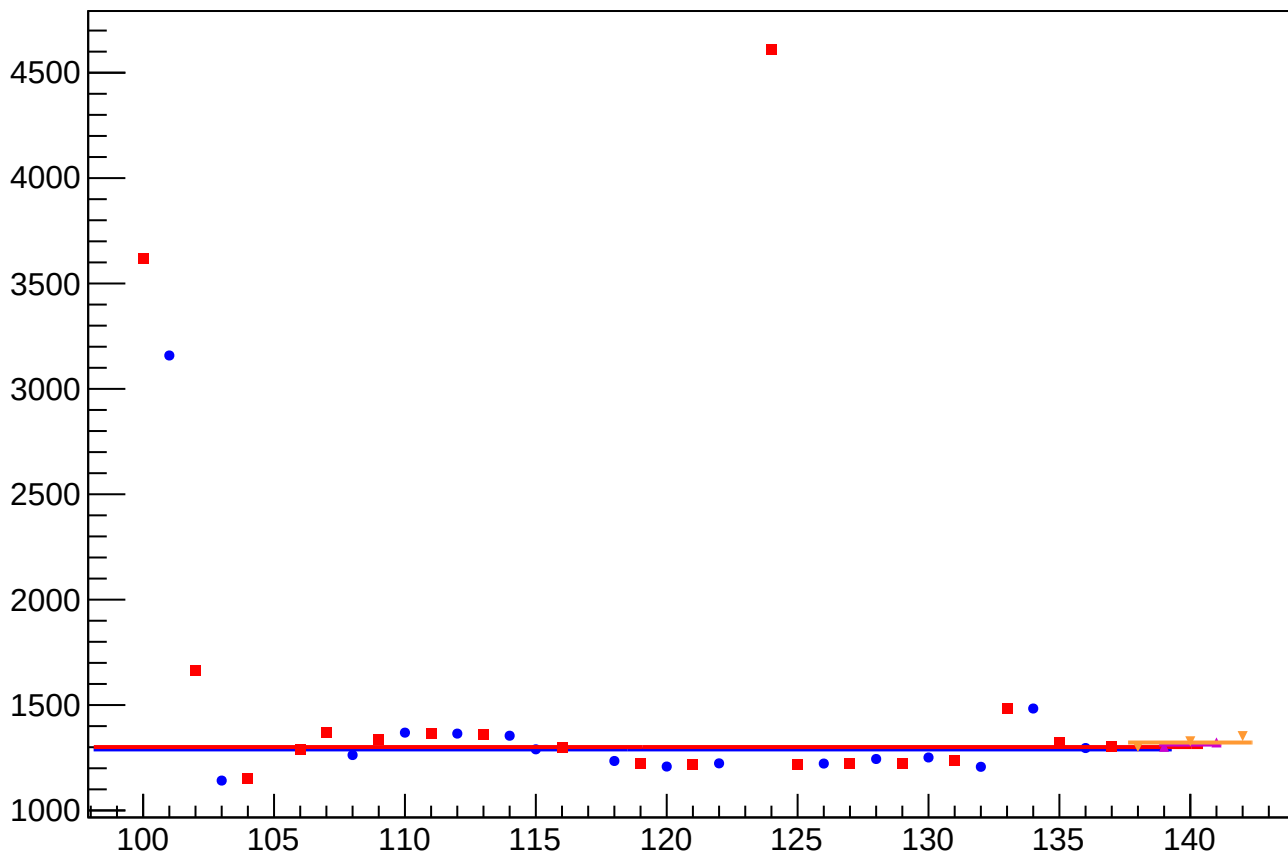
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -614.583+/-438.824 χ^2/NDF : 14.5/17

Out: 24.237+/-431.189 χ^2/NDF : 21.2/21

All: -289.567+/-307.560 χ^2/NDF : 36.7/39

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514676.5/15

Left Out: 1322.159+/-0.651 χ^2/NDF : 909.7/2

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1312.384+/-0.705 χ^2/NDF : 216.7/1

Left: 1317.664+/-0.478 χ^2/NDF : 1230.2/4

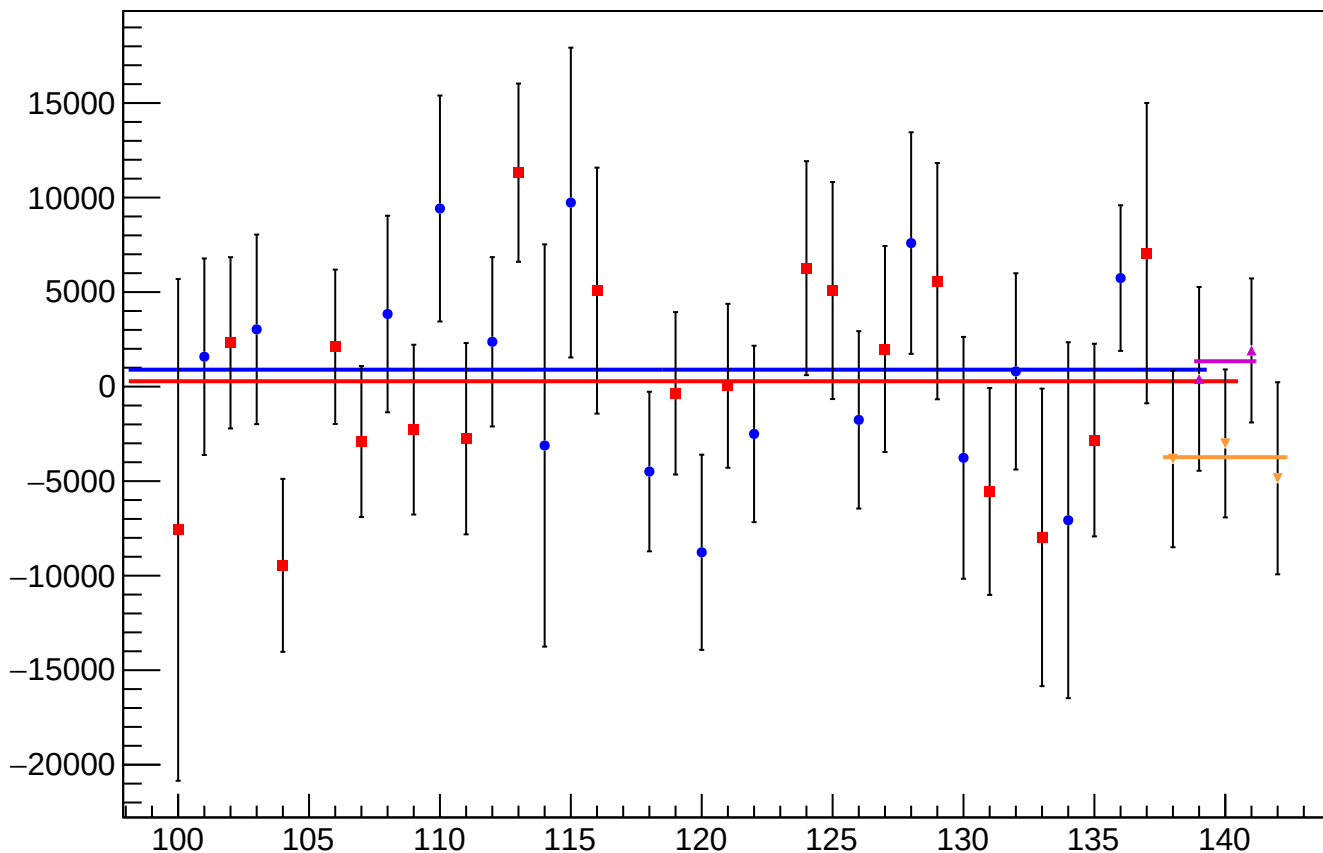
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1293.902+/-0.310 χ^2/NDF : 515744.8/17

Out: 1305.385+/-0.304 χ^2/NDF : 327668.1/21

All: 1299.753+/-0.217 χ^2/NDF : 844110.6/39

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017+/-1324.823 χ^2/NDF : 14.1/15

Left Out: -3731.705+/-2583.709 χ^2/NDF : 0.1/2

Right Out: 283.963+/-1183.171 χ^2/NDF : 18.6/18

Left In: 1340.949+/-2998.450 χ^2/NDF : 0.1/1

Left: -1570.196+/-1957.302 χ^2/NDF : 1.8/4

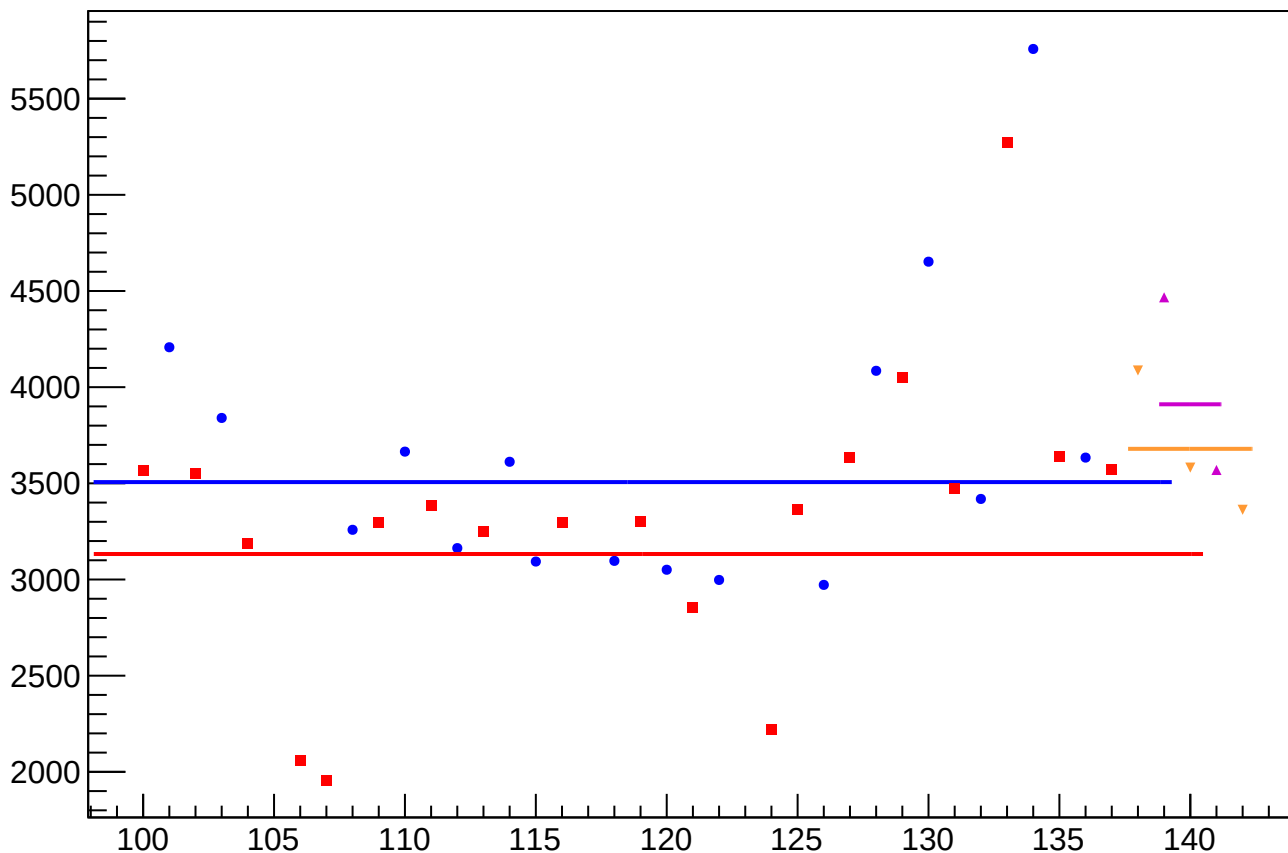
Right: 555.531+/-882.475 χ^2/NDF : 32.8/34

In: 968.689+/-1211.809 χ^2/NDF : 14.2/17

Out: -412.161+/-1075.742 χ^2/NDF : 20.7/21

All: 196.418+/-804.488 χ^2/NDF : 35.6/39

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484+/-0.937 χ^2/NDF : 353237.7/15

Left Out: 3679.407+/-1.827 χ^2/NDF : 24219.8/2

Right Out: 3132.586+/-0.837 χ^2/NDF : 649611.1/18

Left In: 3910.982+/-2.120 χ^2/NDF : 42241.5/1

Left: 3778.084+/-1.384 χ^2/NDF : 73307.5/4

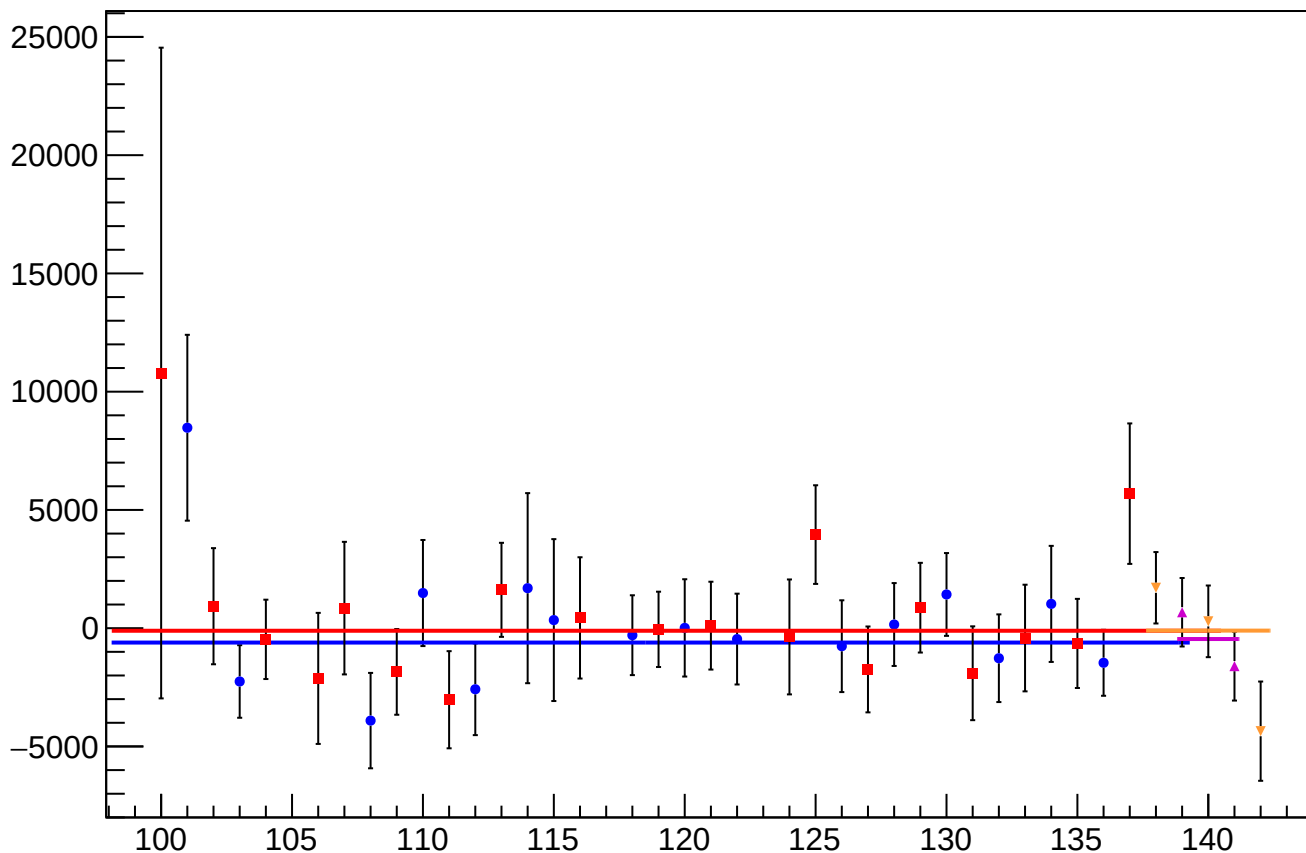
Right: 3298.485+/-0.624 χ^2/NDF : 1091468.2/34

In: 3572.552+/-0.857 χ^2/NDF : 425931.7/17

Out: 3227.379+/-0.761 χ^2/NDF : 747885.7/21

All: 3379.506+/-0.569 χ^2/NDF : 1264569.9/39

dit_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -607.831+/-494.182 χ^2/NDF : 14.1/15

Left Out: -102.420+/-952.859 χ^2/NDF : 5.6/2

Right Out: -108.614+/-485.552 χ^2/NDF : 14.9/18

Left In: -458.128+/-1026.913 χ^2/NDF : 1.2/1

Left: -266.987+/-698.487 χ^2/NDF : 6.9/4

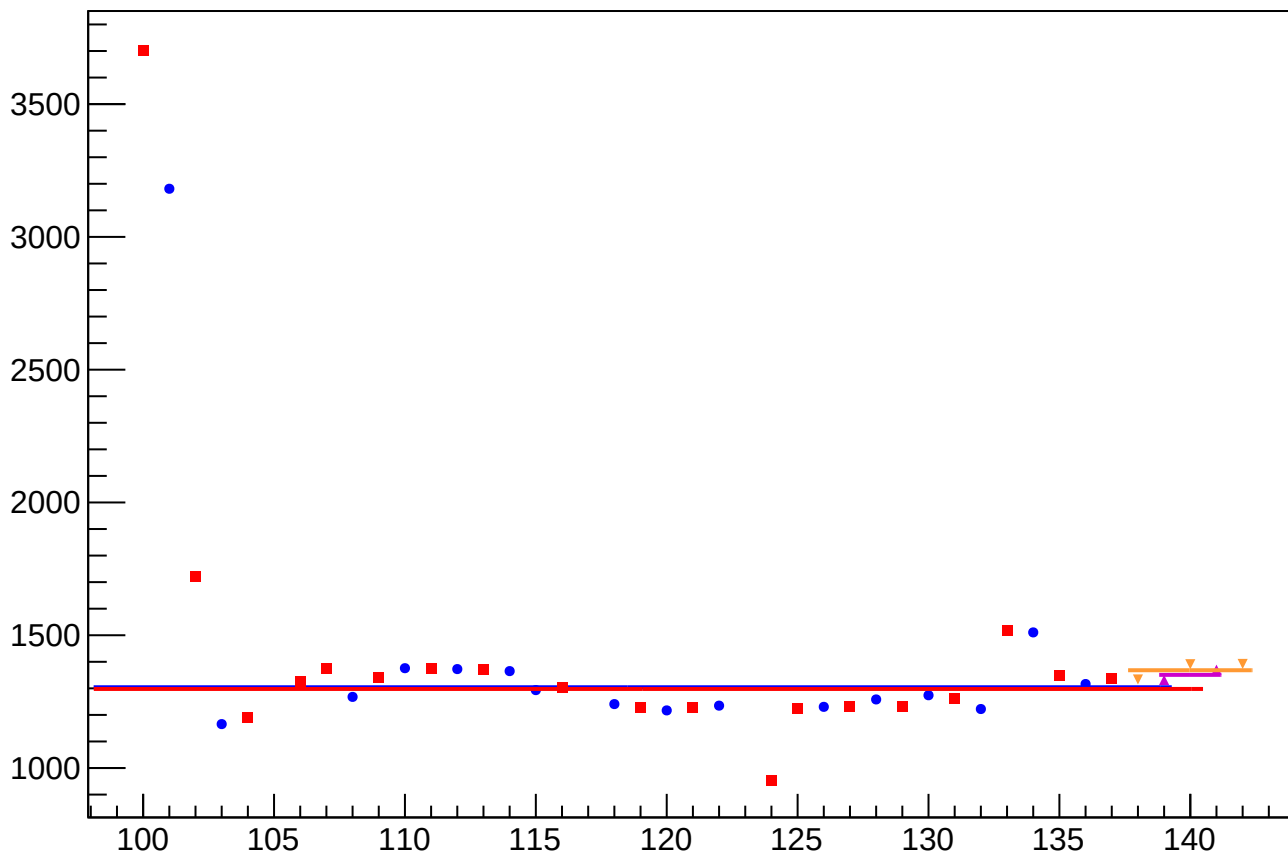
Right: -353.826+/-346.348 χ^2/NDF : 29.5/34

In: -579.681+/-445.302 χ^2/NDF : 15.4/17

Out: -107.337+/-432.622 χ^2/NDF : 20.5/21

All: -336.688+/-310.296 χ^2/NDF : 36.4/39

dit_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1304.102 $\pm$ 0.349 χ^2 /NDF: 510589.4/15

Left Out: 1368.240 $\pm$ 0.674 χ^2 /NDF: 1763.2/2

Right Out: 1297.796 $\pm$ 0.343 χ^2 /NDF: 213096.9/18

Left In: 1350.869 $\pm$ 0.726 χ^2 /NDF: 712.8/1

Left: 1360.204 $\pm$ 0.494 χ^2 /NDF: 2783.5/4

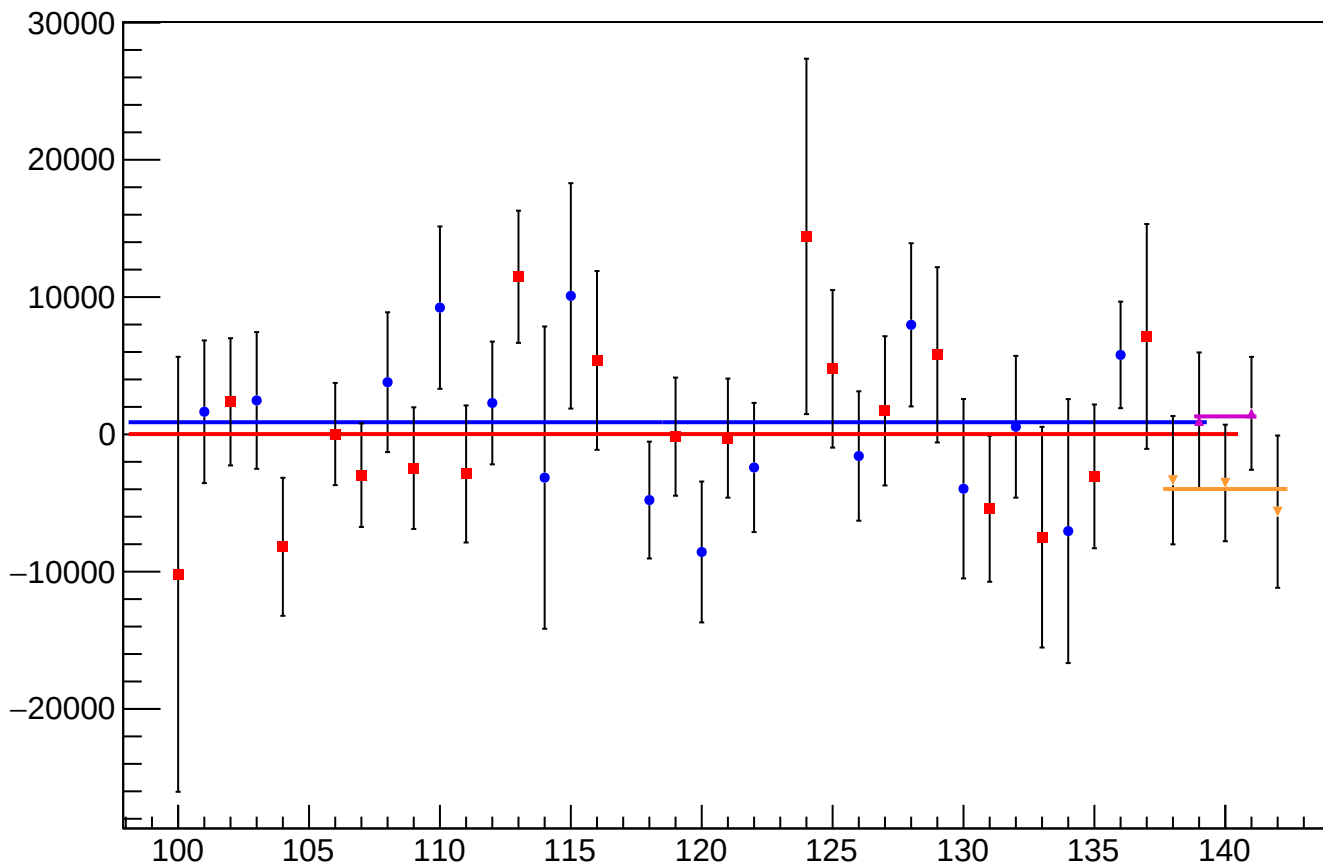
Right: 1300.891 $\pm$ 0.245 χ^2 /NDF: 723852.1/34

In: 1312.896 $\pm$ 0.315 χ^2 /NDF: 514670.3/17

Out: 1312.300 $\pm$ 0.306 χ^2 /NDF: 223540.5/21

All: 1312.589 $\pm$ 0.219 χ^2 /NDF: 738212.6/39

asym_at1_avg_at2_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.058+/-1327.399 χ^2/NDF : 14.1/15

Left Out: -3978.491+/-2733.713 χ^2/NDF : 0.1/2

Right Out: 20.681+/-1200.015 χ^2/NDF : 16.8/18

Left In: 1309.261+/-3173.459 χ^2/NDF : 0.0/1

Left: -1726.079+/-2071.196 χ^2/NDF : 1.7/4

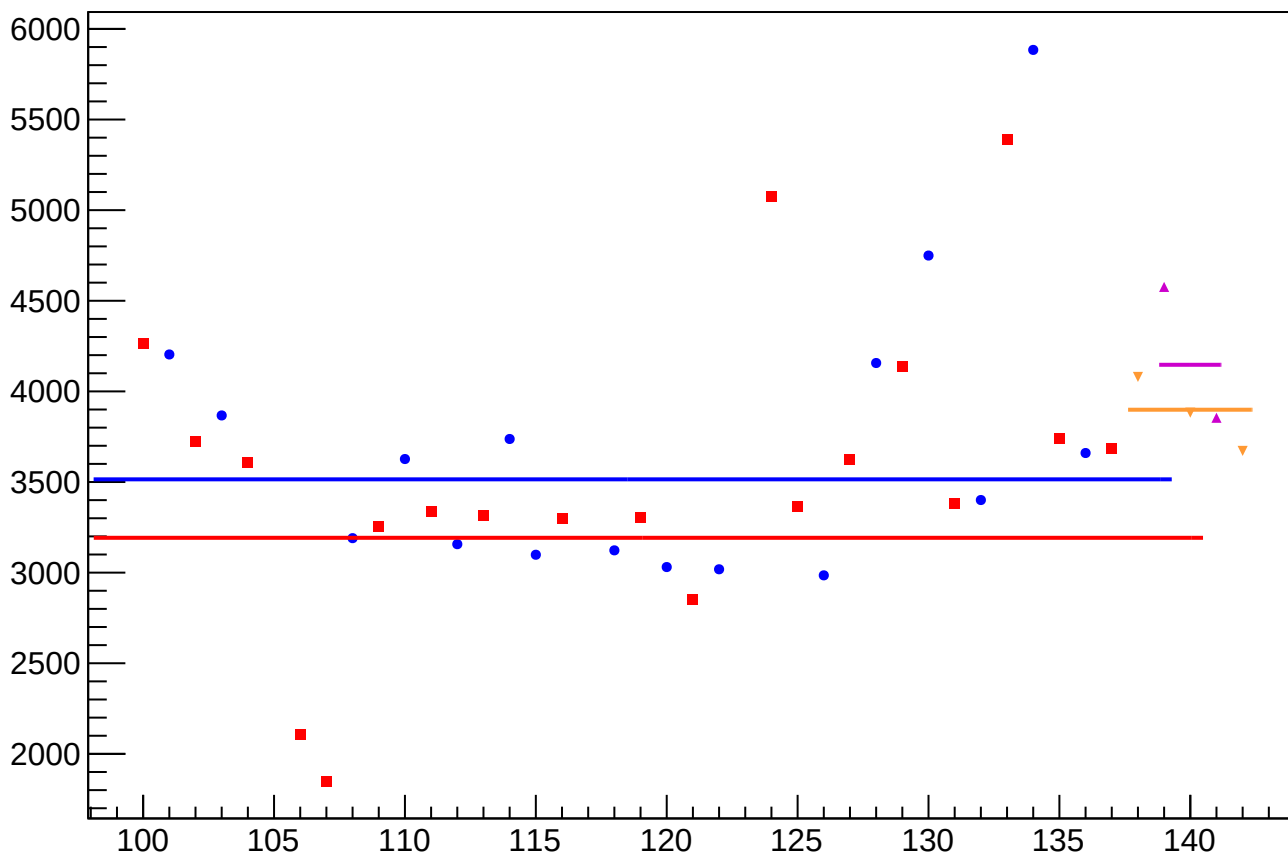
Right: 408.965+/-890.176 χ^2/NDF : 31.2/34

In: 947.373+/-1224.588 χ^2/NDF : 14.1/17

Out: -625.432+/-1098.809 χ^2/NDF : 18.7/21

All: 76.074+/-817.840 χ^2/NDF : 33.8/39

asym_at1_avg_at2_avg_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.746 $\pm$ 0.939 χ^2 /NDF: 375078.6/15

Left Out: 3898.865 $\pm$ 1.933 χ^2 /NDF: 6386.5/2

Right Out: 3192.203 $\pm$ 0.849 χ^2 /NDF: 772495.7/18

Left In: 4146.801 $\pm$ 2.244 χ^2 /NDF: 24941.6/1

Left: 4004.477 $\pm$ 1.465 χ^2 /NDF: 38335.8/4

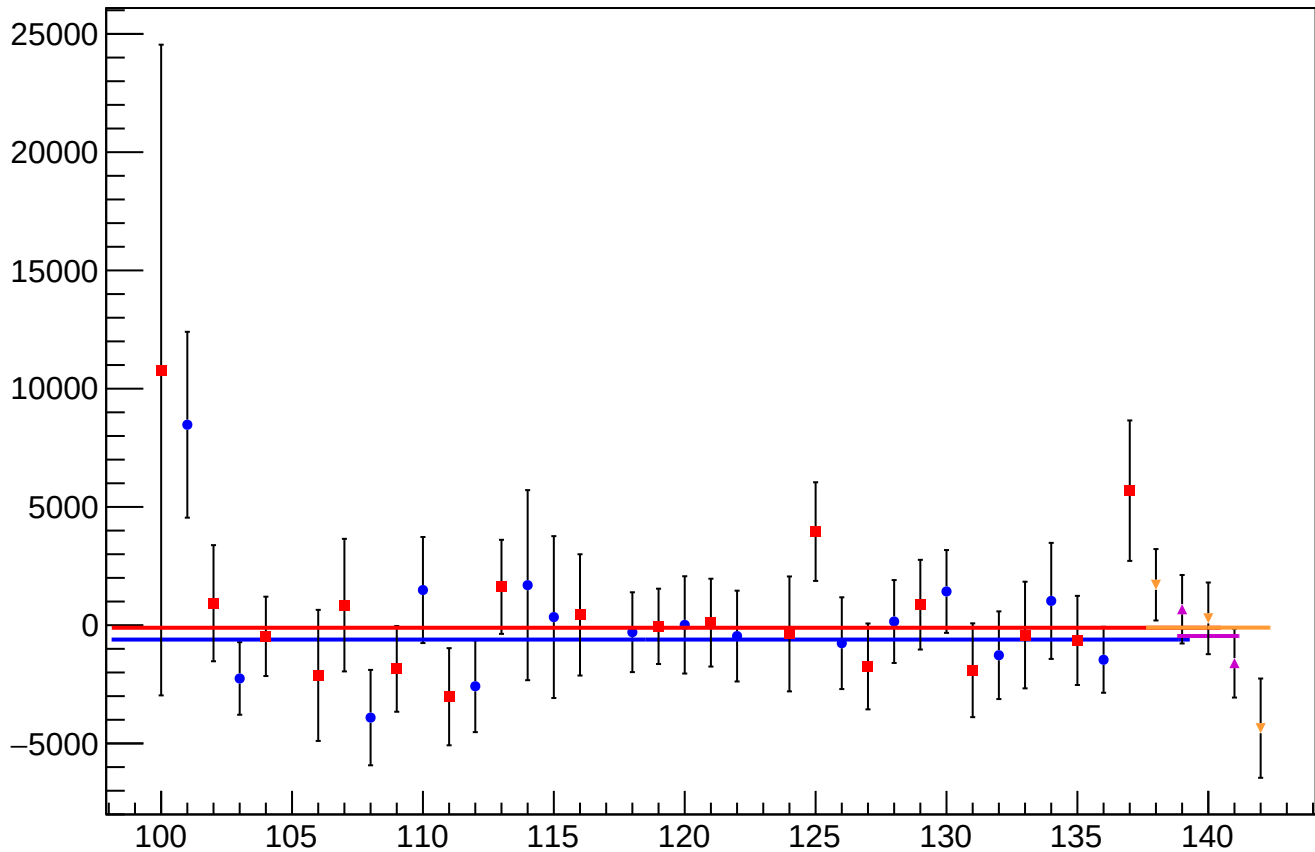
Right: 3337.259 $\pm$ 0.629 χ^2 /NDF: 1212554.2/34

In: 3608.863 $\pm$ 0.866 χ^2 /NDF: 467543.2/17

Out: 3306.373 $\pm$ 0.777 χ^2 /NDF: 890933.7/21

All: 3441.290 $\pm$ 0.578 χ^2 /NDF: 1426079.6/39

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -607.834+/-494.182 χ^2/NDF : 14.1/15

Left Out: -102.431+/-952.859 χ^2/NDF : 5.6/2

Right Out: -108.619+/-485.553 χ^2/NDF : 14.9/18

Left In: -458.120+/-1026.914 χ^2/NDF : 1.2/1

Left: -266.989+/-698.488 χ^2/NDF : 6.9/4

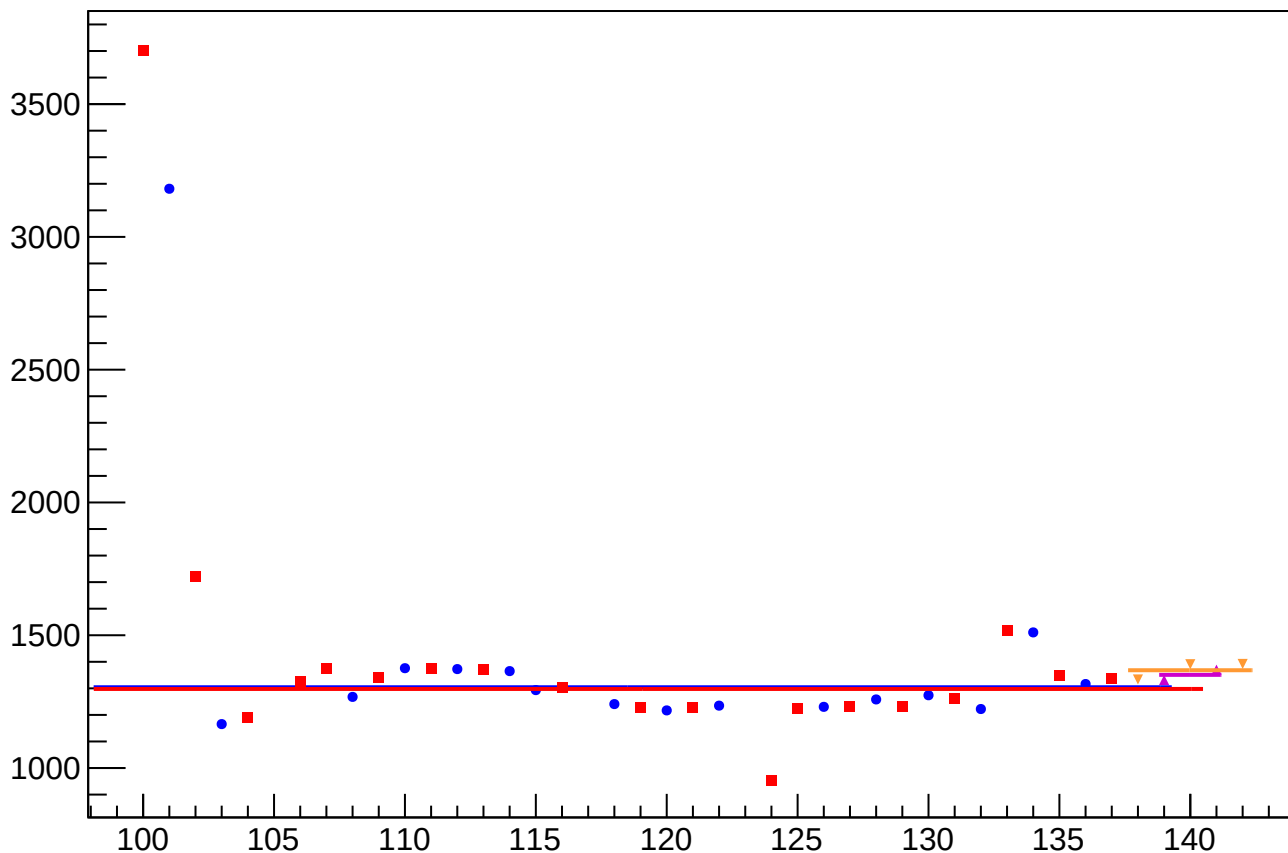
Right: -353.830+/-346.348 χ^2/NDF : 29.5/34

In: -579.682+/-445.302 χ^2/NDF : 15.4/17

Out: -107.344+/-432.622 χ^2/NDF : 20.5/21

All: -336.692+/-310.296 χ^2/NDF : 36.4/39

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1304.102+/-0.349 χ^2/NDF : 510589.6/15

Left Out: 1368.241+/-0.674 χ^2/NDF : 1763.2/2

Right Out: 1297.796+/-0.343 χ^2/NDF : 213097.0/18

Left In: 1350.870+/-0.726 χ^2/NDF : 712.8/1

Left: 1360.204+/-0.494 χ^2/NDF : 2783.5/4

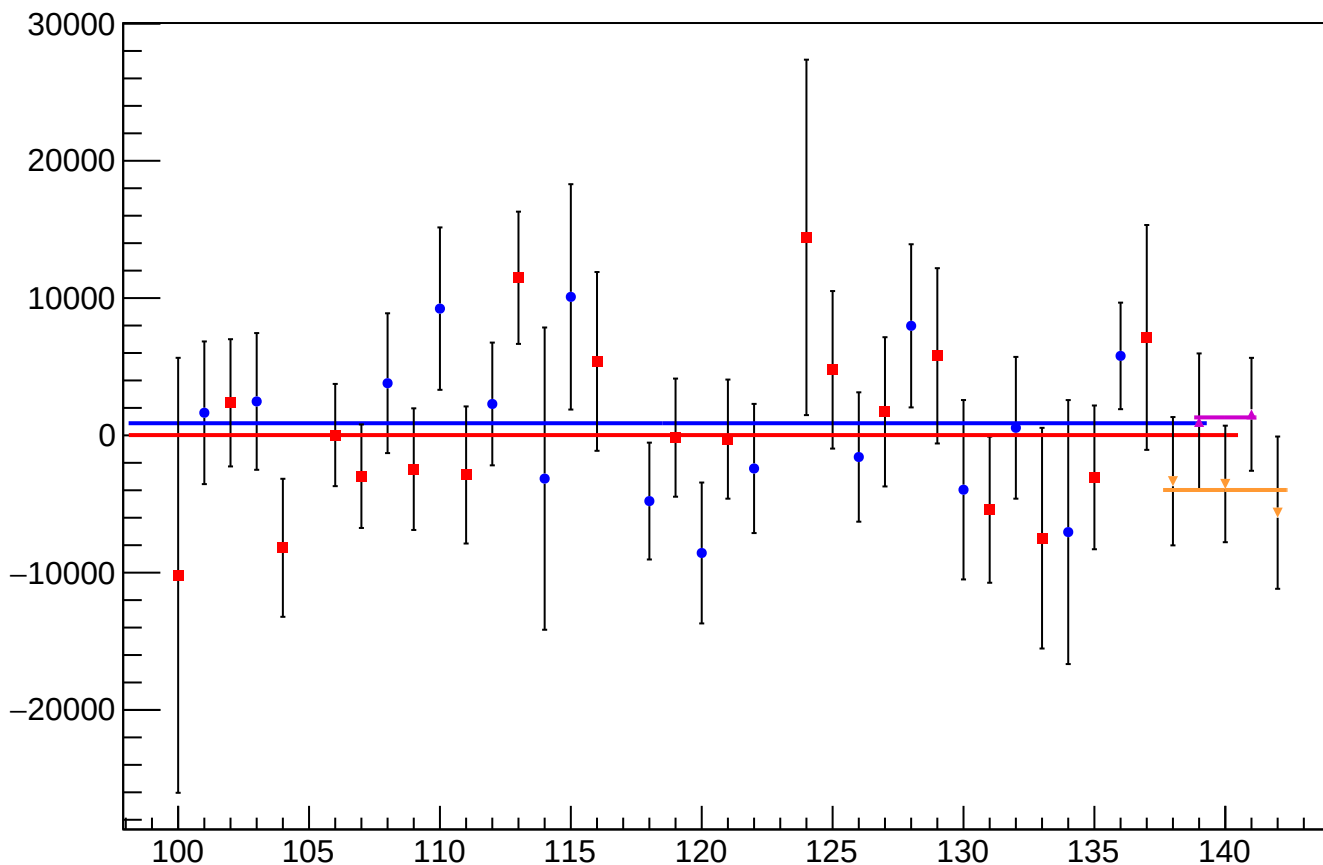
Right: 1300.891+/-0.245 χ^2/NDF : 723852.4/34

In: 1312.896+/-0.315 χ^2/NDF : 514670.6/17

Out: 1312.300+/-0.306 χ^2/NDF : 223540.7/21

All: 1312.590+/-0.219 χ^2/NDF : 738213.1/39

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.047 ± 1327.396 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -3978.505 ± 2733.718 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 20.677 ± 1200.012 $\chi^2/\text{NDF}: 16.8/18$

Left In: 1309.271 ± 3173.463 $\chi^2/\text{NDF}: 0.0/1$

Left: -1726.083 ± 2071.199 $\chi^2/\text{NDF}: 1.7/4$

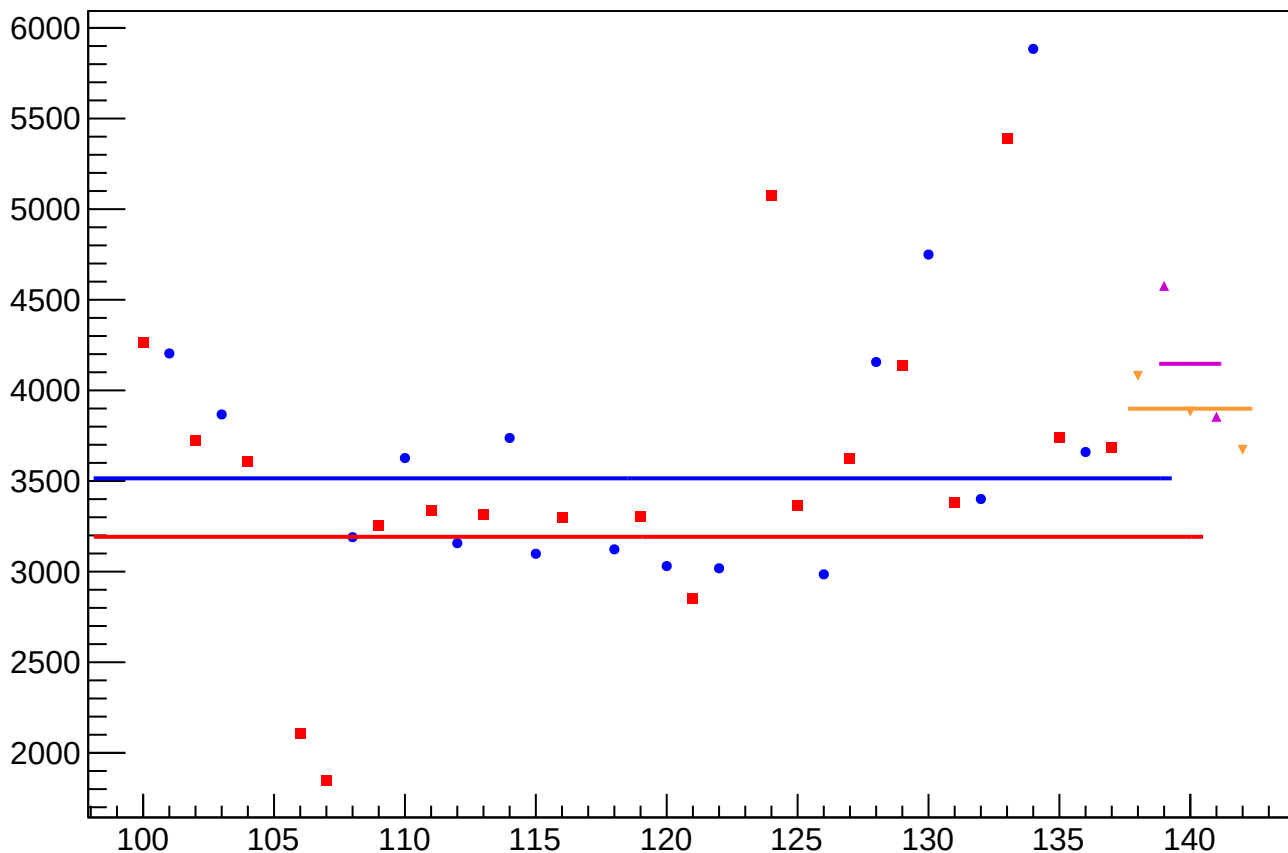
Right: 408.958 ± 890.174 $\chi^2/\text{NDF}: 31.2/34$

In: 947.365 ± 1224.586 $\chi^2/\text{NDF}: 14.1/17$

Out: -625.433 ± 1098.807 $\chi^2/\text{NDF}: 18.7/21$

All: 76.070 ± 817.838 $\chi^2/\text{NDF}: 33.8/39$

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.737 $\pm$ 0.939 χ^2 /NDF: 375082.8/15

Left Out: 3898.871 $\pm$ 1.933 χ^2 /NDF: 6386.6/2

Right Out: 3192.196 $\pm$ 0.849 χ^2 /NDF: 772497.9/18

Left In: 4146.807 $\pm$ 2.244 χ^2 /NDF: 24942.3/1

Left: 4004.484 $\pm$ 1.465 χ^2 /NDF: 38336.6/4

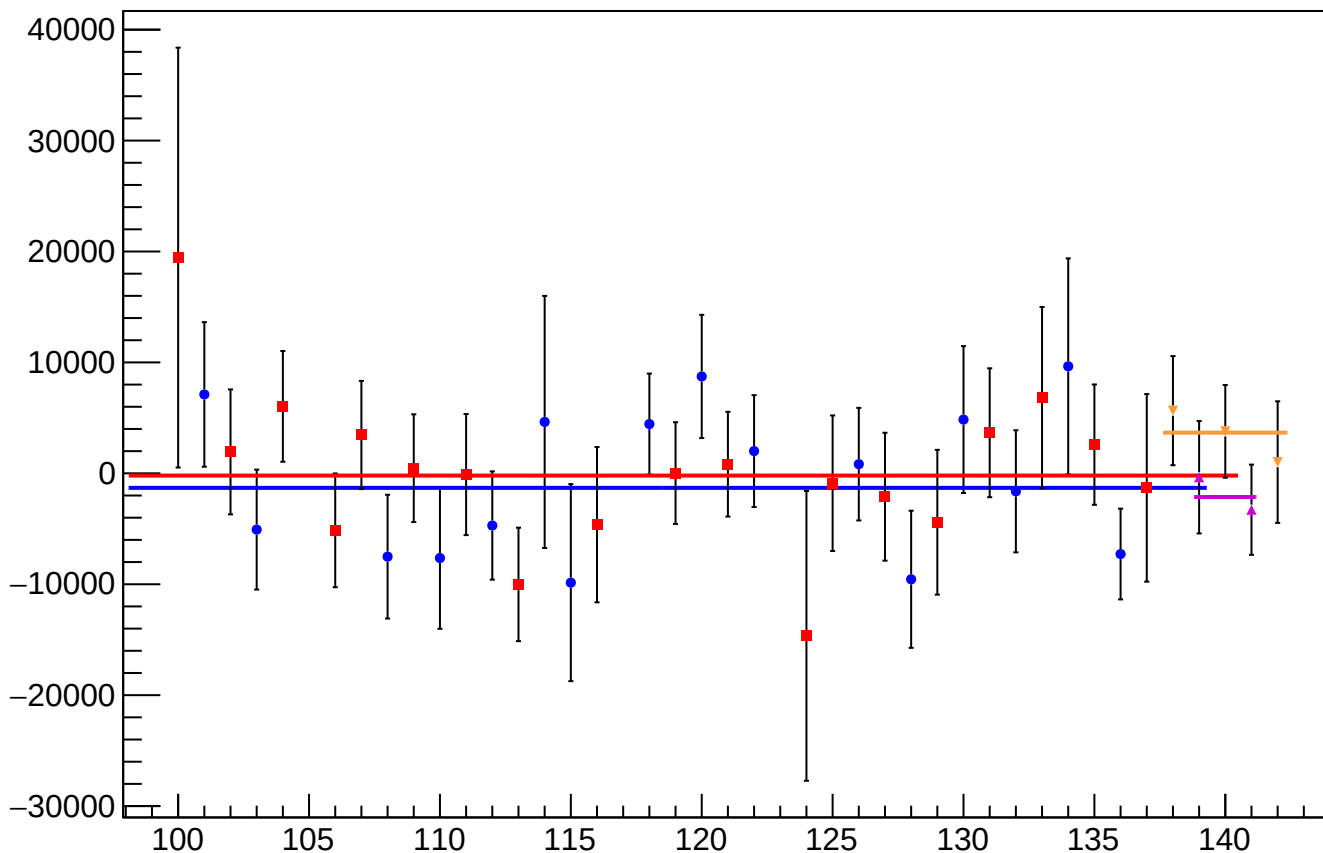
Right: 3337.251 $\pm$ 0.629 χ^2 /NDF: 1212560.4/34

In: 3608.855 $\pm$ 0.866 χ^2 /NDF: 467551.1/17

Out: 3306.367 $\pm$ 0.777 χ^2 /NDF: 890940.4/21

All: 3441.283 $\pm$ 0.578 χ^2 /NDF: 1426094.0/39

asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -1309.349+/-1431.624 χ^2/NDF : 17.6/15

Left Out: 3669.705+/-2753.396 χ^2/NDF : 0.4/2

Right Out: -201.593+/-1336.062 χ^2/NDF : 11.6/18

Left In: -2133.541+/-3171.289 χ^2/NDF : 0.2/1

Left: 1175.383+/-2079.106 χ^2/NDF : 2.5/4

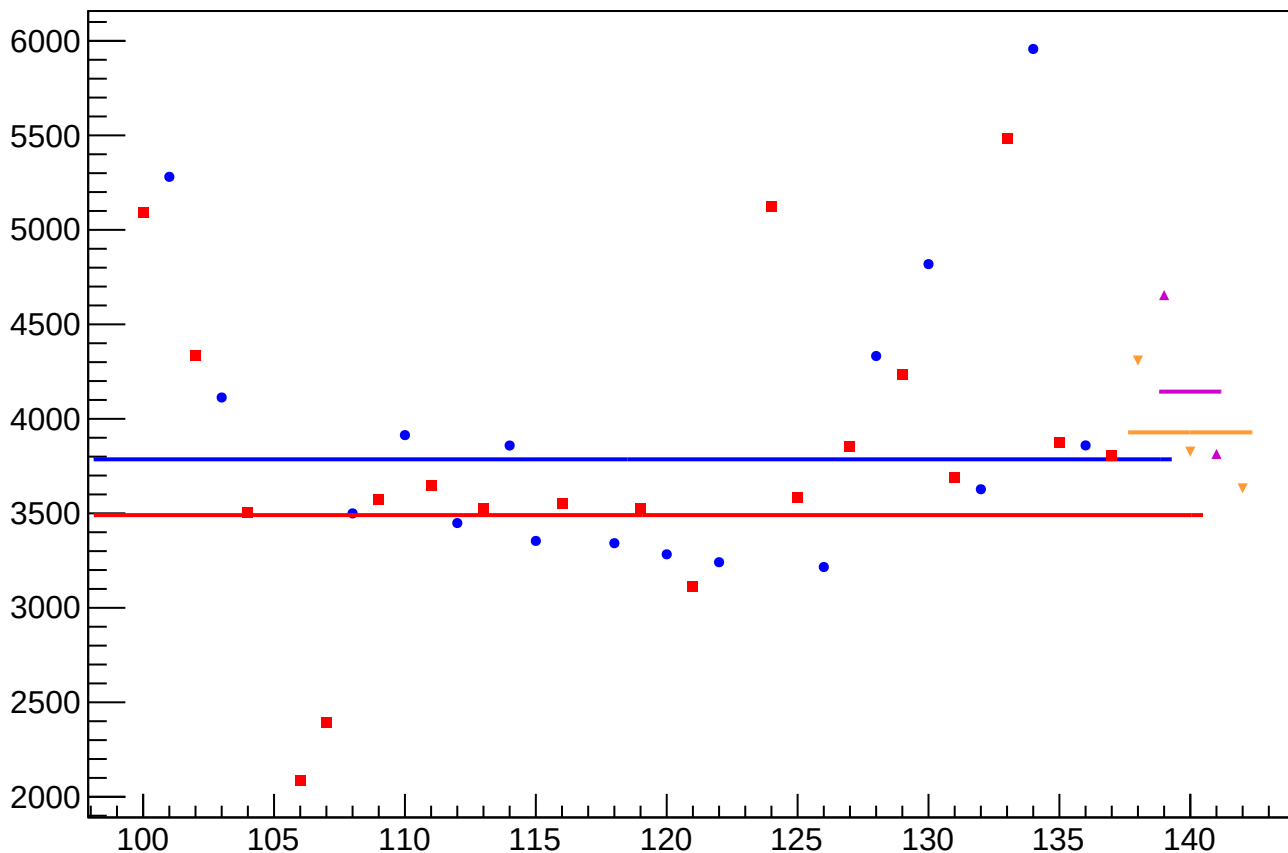
Right: -717.269+/-976.776 χ^2/NDF : 29.5/34

In: -1448.878+/-1304.828 χ^2/NDF : 17.8/17

Out: 536.216+/-1202.022 χ^2/NDF : 13.6/21

All: -375.059+/-884.072 χ^2/NDF : 32.7/39

asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 3785.774+/-1.012 χ^2/NDF : 382992.9/15

Left Out: 3928.391+/-1.947 χ^2/NDF : 18979.5/2

Right Out: 3490.614+/-0.932 χ^2/NDF : 586715.1/18

Left In: 4143.971+/-2.242 χ^2/NDF : 33477.9/1

Left: 4021.050+/-1.470 χ^2/NDF : 57727.2/4

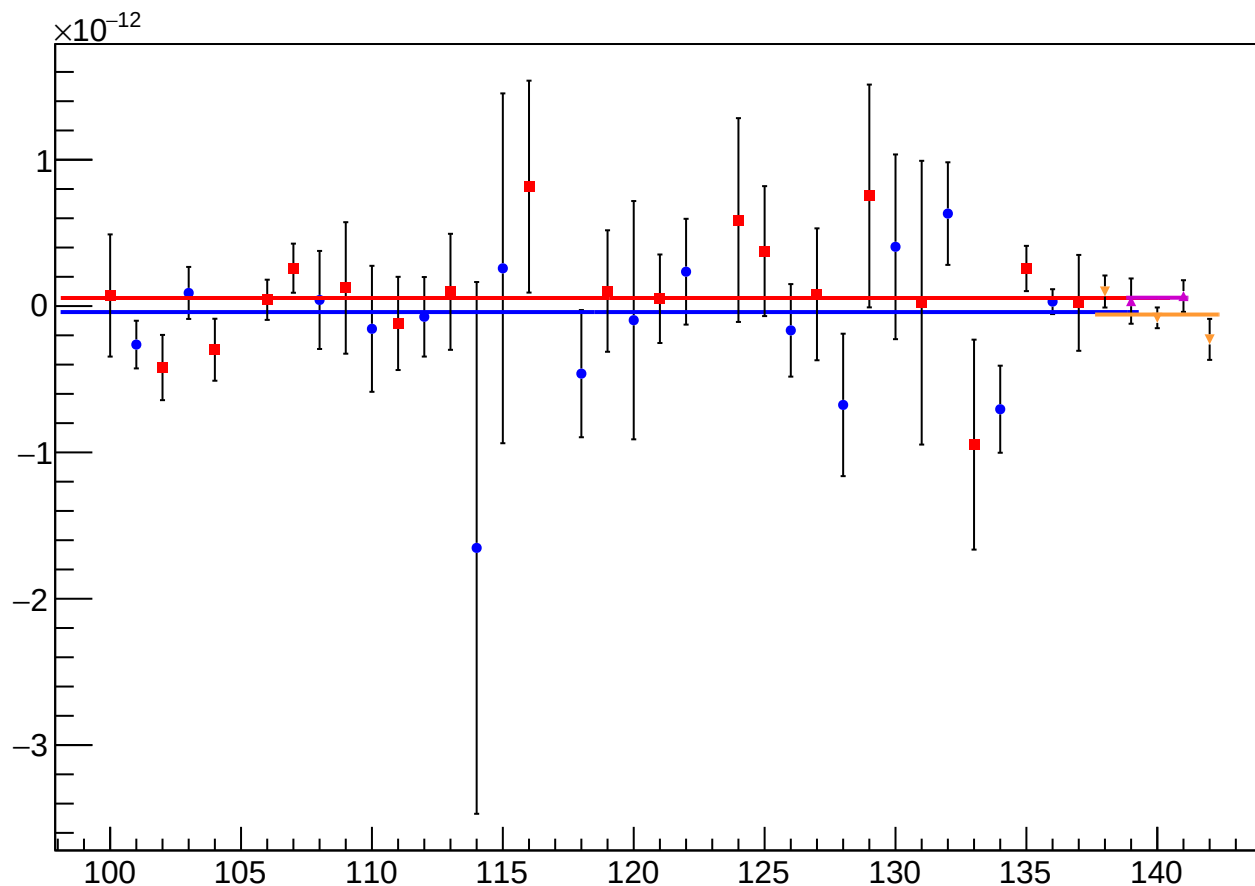
Right: 3626.002+/-0.686 χ^2/NDF : 1015727.1/34

In: 3846.413+/-0.923 χ^2/NDF : 437666.8/17

Out: 3572.209+/-0.841 χ^2/NDF : 646830.2/21

All: 3696.570+/-0.621 χ^2/NDF : 1132762.7/39

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 15.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 4.9/4

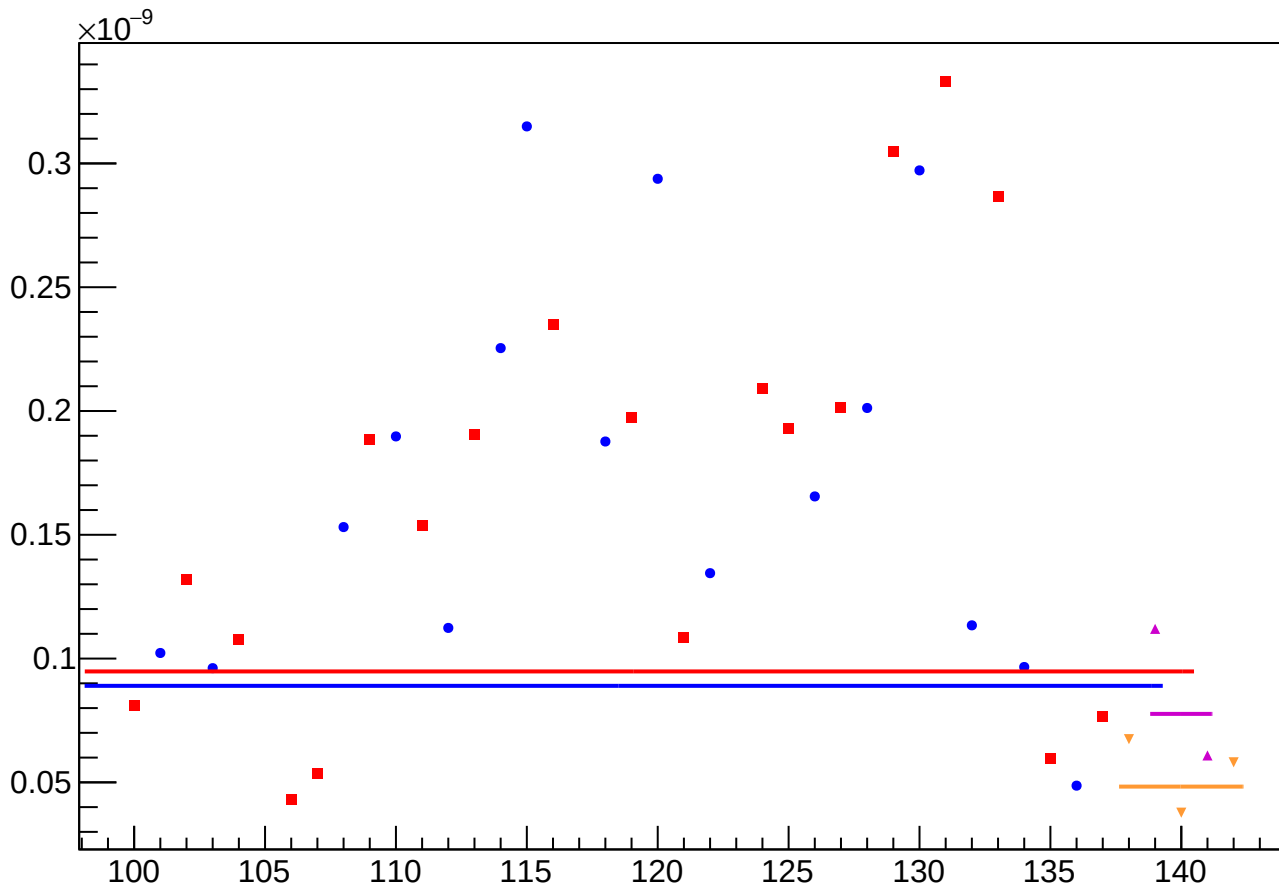
Right: 0.000+/-0.000 χ^2/NDF : 33.7/34

In: -0.000+/-0.000 χ^2/NDF : 17.5/17

Out: -0.000+/-0.000 χ^2/NDF : 21.3/21

All: -0.000+/-0.000 χ^2/NDF : 38.8/39

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 1460718.5/15

Left Out: 0.000+/-0.000

χ^2/NDF : 115302.1/2

Right Out: 0.000+/-0.000

χ^2/NDF : 1734601.4/18

Left In: 0.000+/-0.000

χ^2/NDF : 146700.5/1

Left: 0.000+/-0.000

χ^2/NDF : 420888.3/4

Right: 0.000+/-0.000

χ^2/NDF : 3204262.4/34

In: 0.000+/-0.000

χ^2/NDF : 1630065.3/17

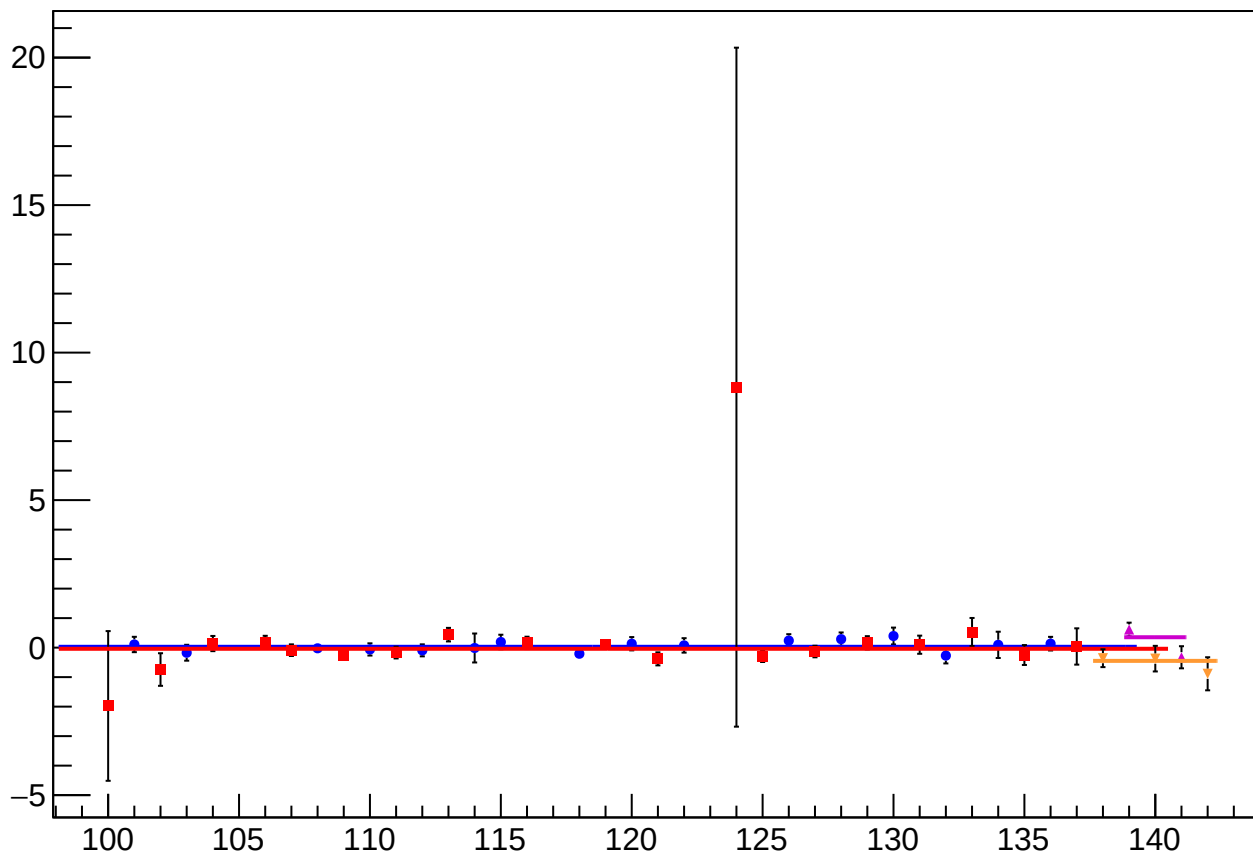
Out: 0.000+/-0.000

χ^2/NDF : 2460539.3/21

All: 0.000+/-0.000

χ^2/NDF : 4239383.6/39

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 $\chi^2/\text{NDF}: 9.4/15$

Left Out: -0.449 ± 0.227 $\chi^2/\text{NDF}: 0.7/2$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.352 ± 0.198 $\chi^2/\text{NDF}: 4.5/1$

Left: 0.006 ± 0.149 $\chi^2/\text{NDF}: 12.4/4$

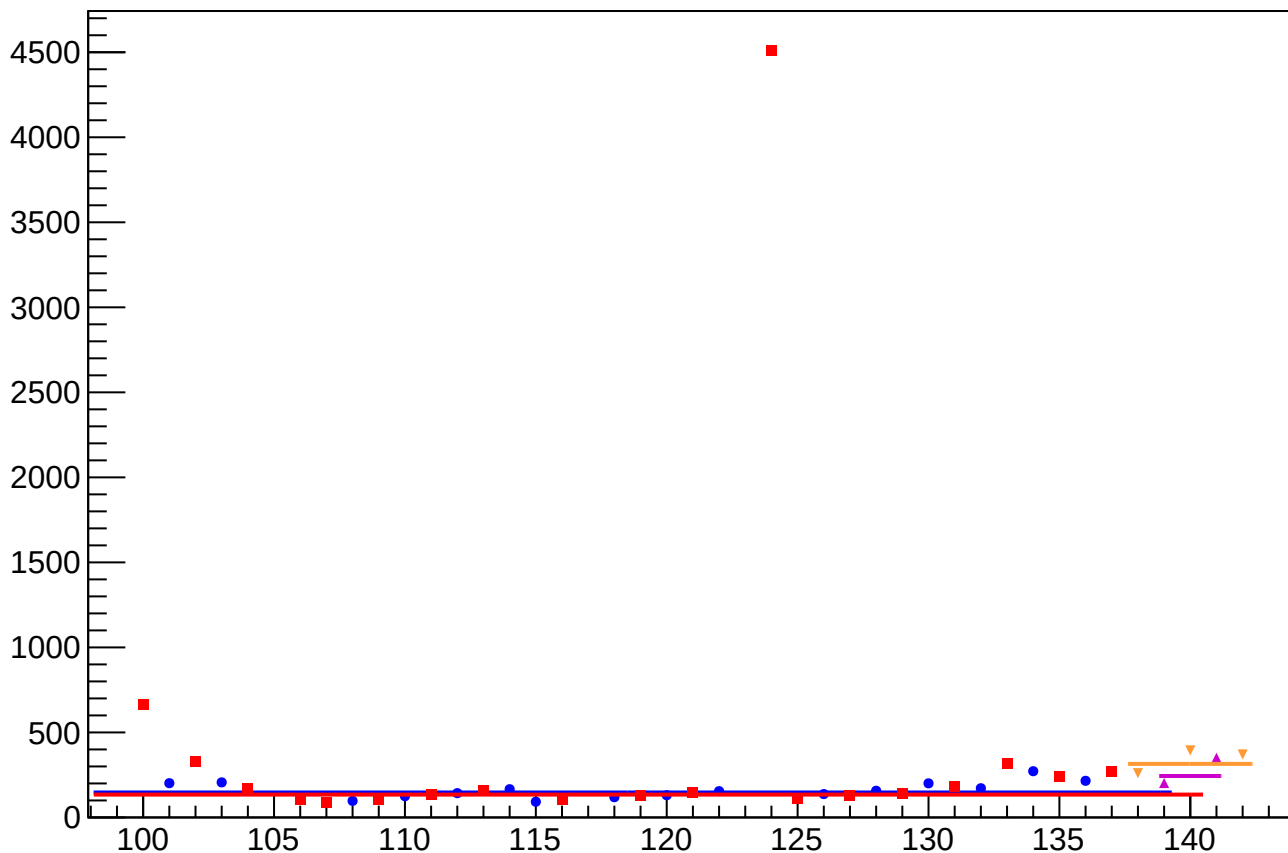
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.053 ± 0.055 $\chi^2/\text{NDF}: 16.5/17$

Out: -0.062 ± 0.053 $\chi^2/\text{NDF}: 23.8/21$

All: -0.006 ± 0.038 $\chi^2/\text{NDF}: 42.5/39$

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 315.050+/-0.160 χ^2/NDF :151154.2/2

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 243.847+/-0.140 χ^2/NDF :226761.4/1

Left: 274.567+/-0.105 χ^2/NDF : 489872.1/4

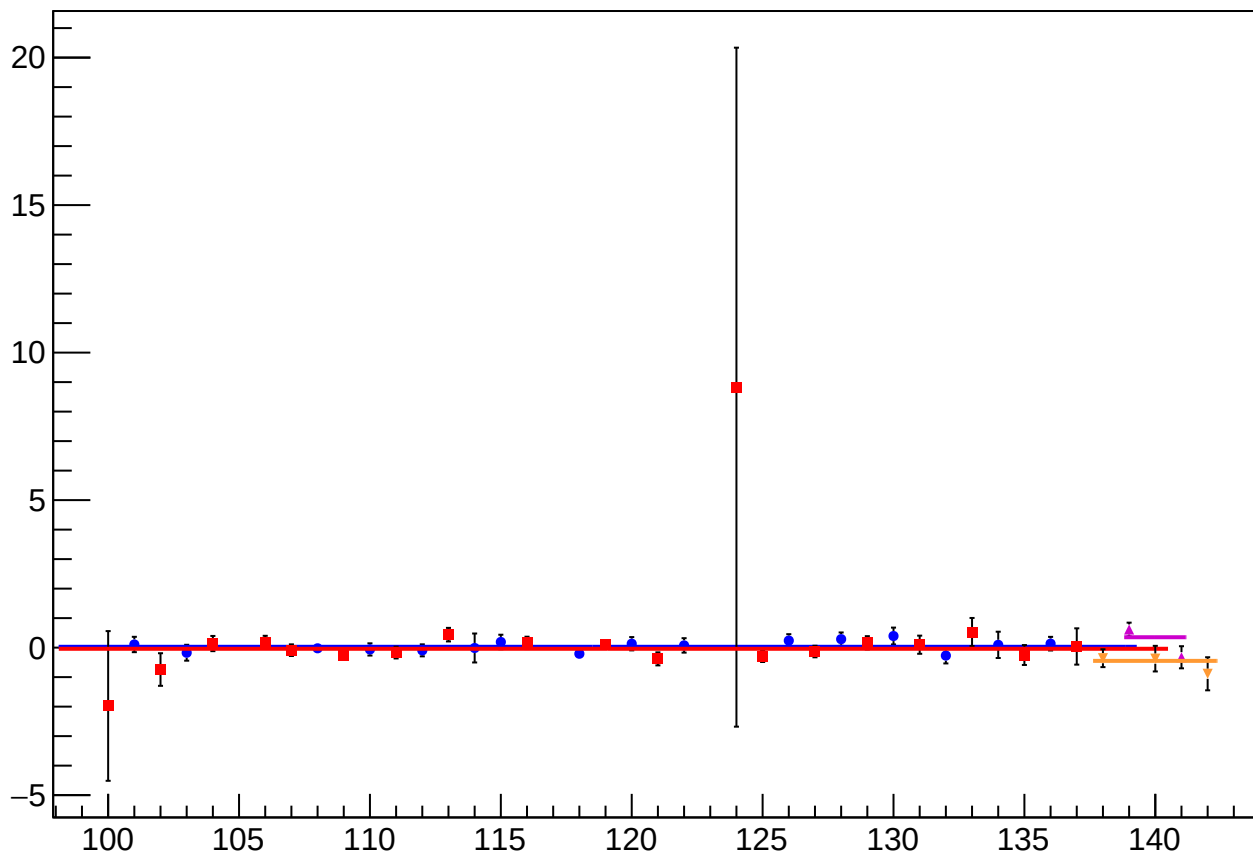
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 154.447+/-0.039 χ^2/NDF :1669400.9/17

Out: 144.446+/-0.038 χ^2/NDF :2953880.4/21

All: 149.250+/-0.027 χ^2/NDF : 4657162.7/39

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 $\chi^2/\text{NDF}: 9.4/15$

Left Out: -0.449 ± 0.227 $\chi^2/\text{NDF}: 0.7/2$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.352 ± 0.198 $\chi^2/\text{NDF}: 4.5/1$

Left: 0.006 ± 0.149 $\chi^2/\text{NDF}: 12.4/4$

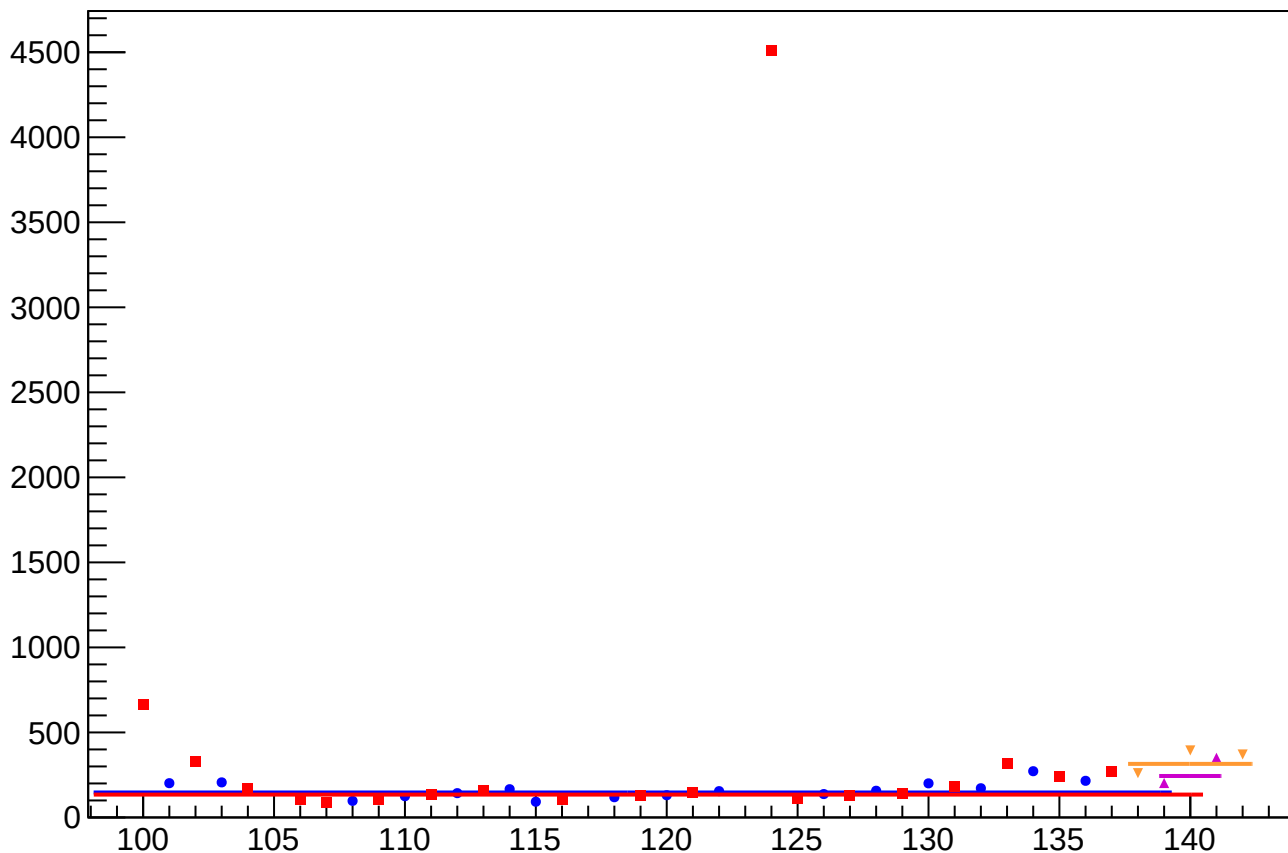
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.053 ± 0.055 $\chi^2/\text{NDF}: 16.5/17$

Out: -0.062 ± 0.053 $\chi^2/\text{NDF}: 23.8/21$

All: -0.006 ± 0.038 $\chi^2/\text{NDF}: 42.5/39$

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 315.050+/-0.160 χ^2/NDF :151154.2/2

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 243.847+/-0.140 χ^2/NDF :226761.4/1

Left: 274.567+/-0.105 χ^2/NDF : 489872.1/4

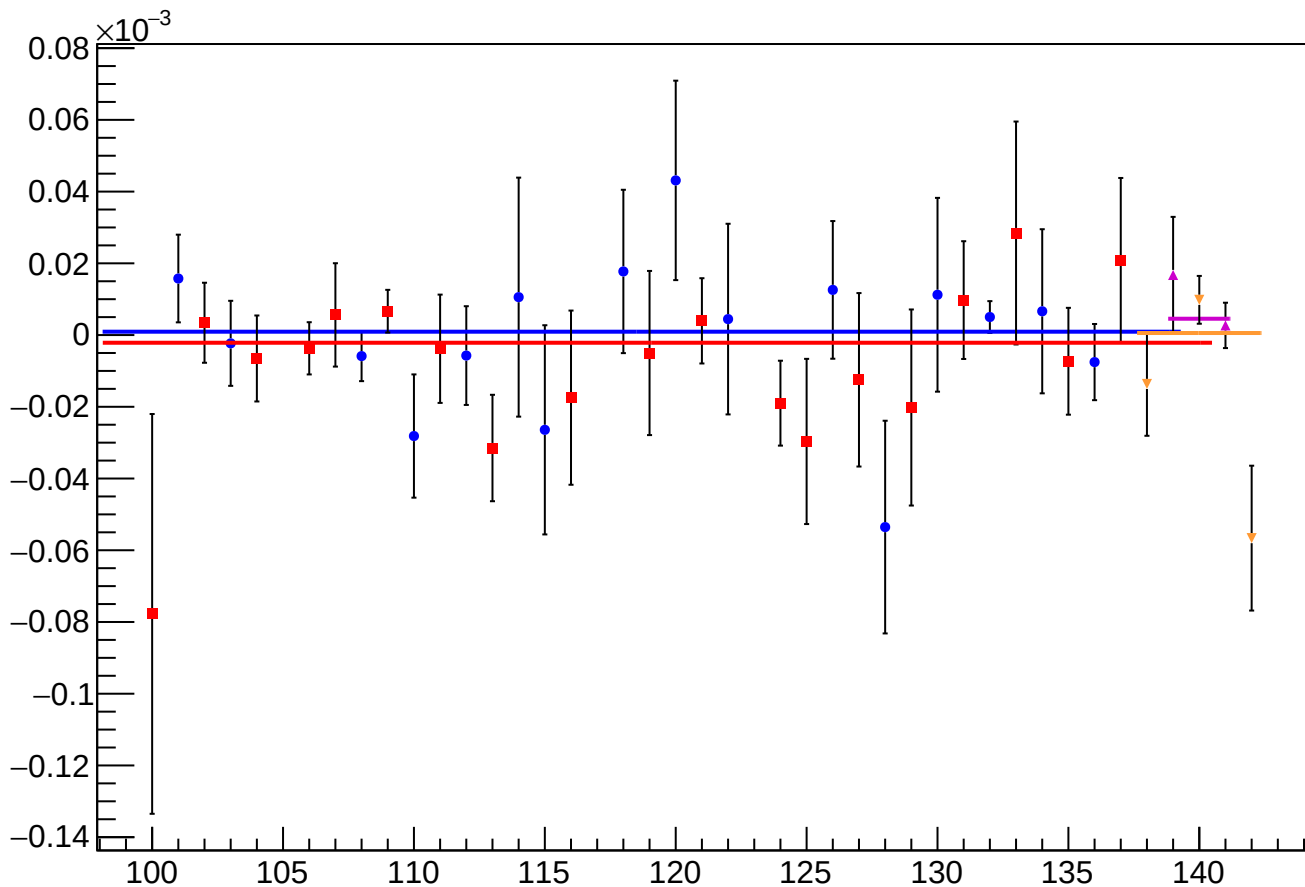
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 154.447+/-0.039 χ^2/NDF :1669400.9/17

Out: 144.446+/-0.038 χ^2/NDF :2953880.4/21

All: 149.250+/-0.027 χ^2/NDF : 4657162.7/39

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 10.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 16.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.7/1

Left: 0.000+/-0.000 χ^2/NDF : 11.8/4

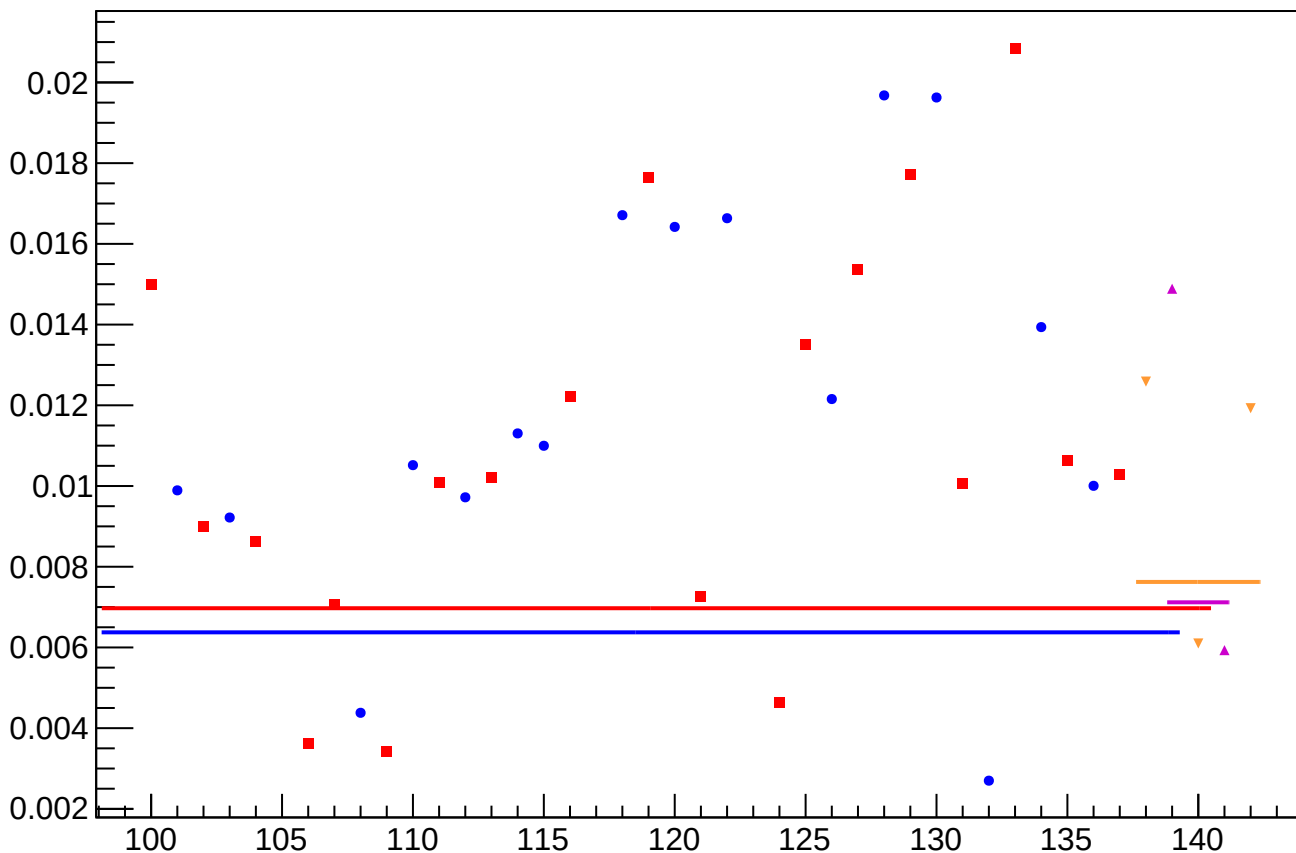
Right: -0.000+/-0.000 χ^2/NDF : 31.5/34

In: 0.000+/-0.000 χ^2/NDF : 15.8/17

Out: -0.000+/-0.000 χ^2/NDF : 27.1/21

All: 0.000+/-0.000 χ^2/NDF : 43.7/39

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 4639775.7/15

Left Out: 0.008+/-0.000 χ^2/NDF : 431485.1/2

Right Out: 0.007+/-0.000 χ^2/NDF : 3409939.3/18

Left In: 0.007+/-0.000 χ^2/NDF : 530472.1/1

Left: 0.007+/-0.000 χ^2/NDF : 969424.7/4

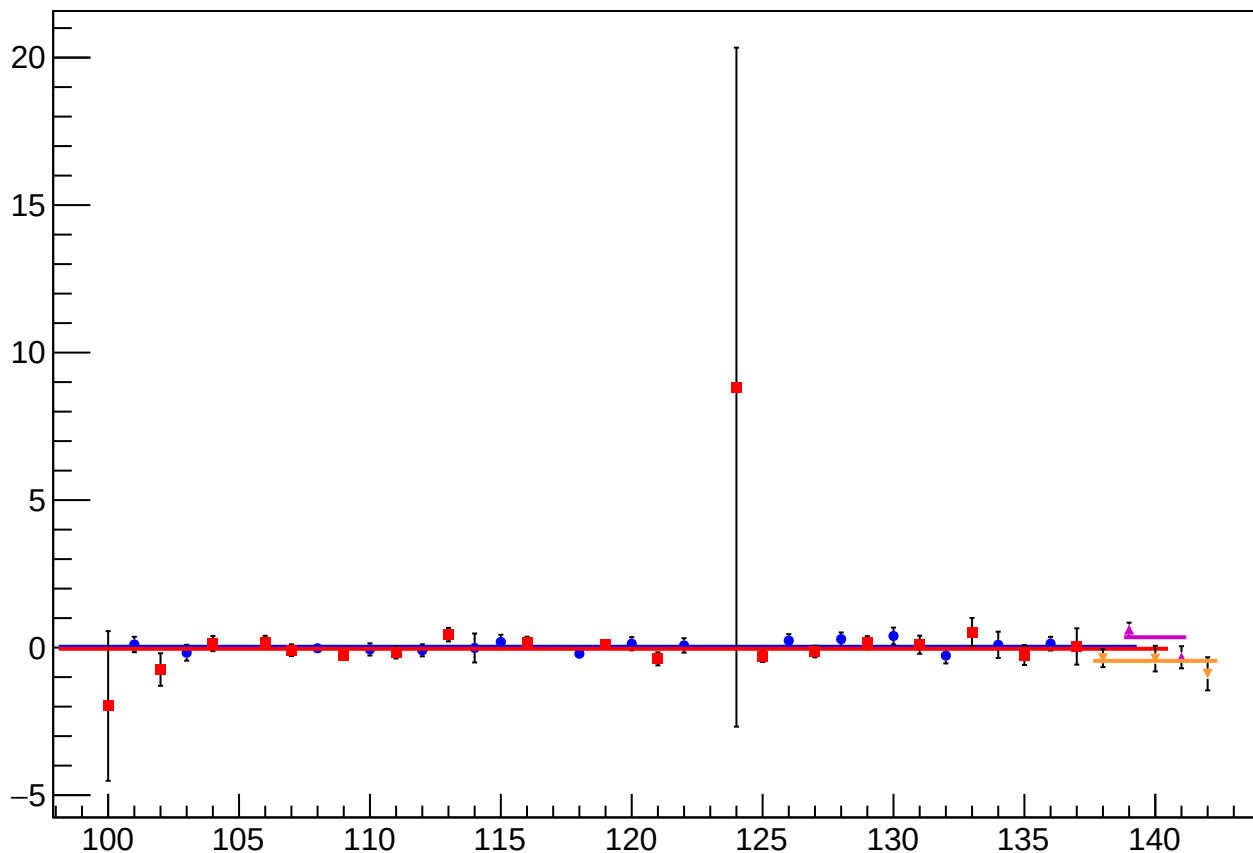
Right: 0.007+/-0.000 χ^2/NDF : 8090163.7/34

In: 0.007+/-0.000 χ^2/NDF : 5195831.4/17

Out: 0.007+/-0.000 χ^2/NDF : 3861313.6/21

All: 0.007+/-0.000 χ^2/NDF : 9106594.6/39

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.449 $\pm$ 0.227 χ^2 /NDF:0.7/2

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.352 $\pm$ 0.198 χ^2 /NDF:4.5/1

Left: 0.006 $\pm$ 0.149 χ^2 /NDF: 12.4/4

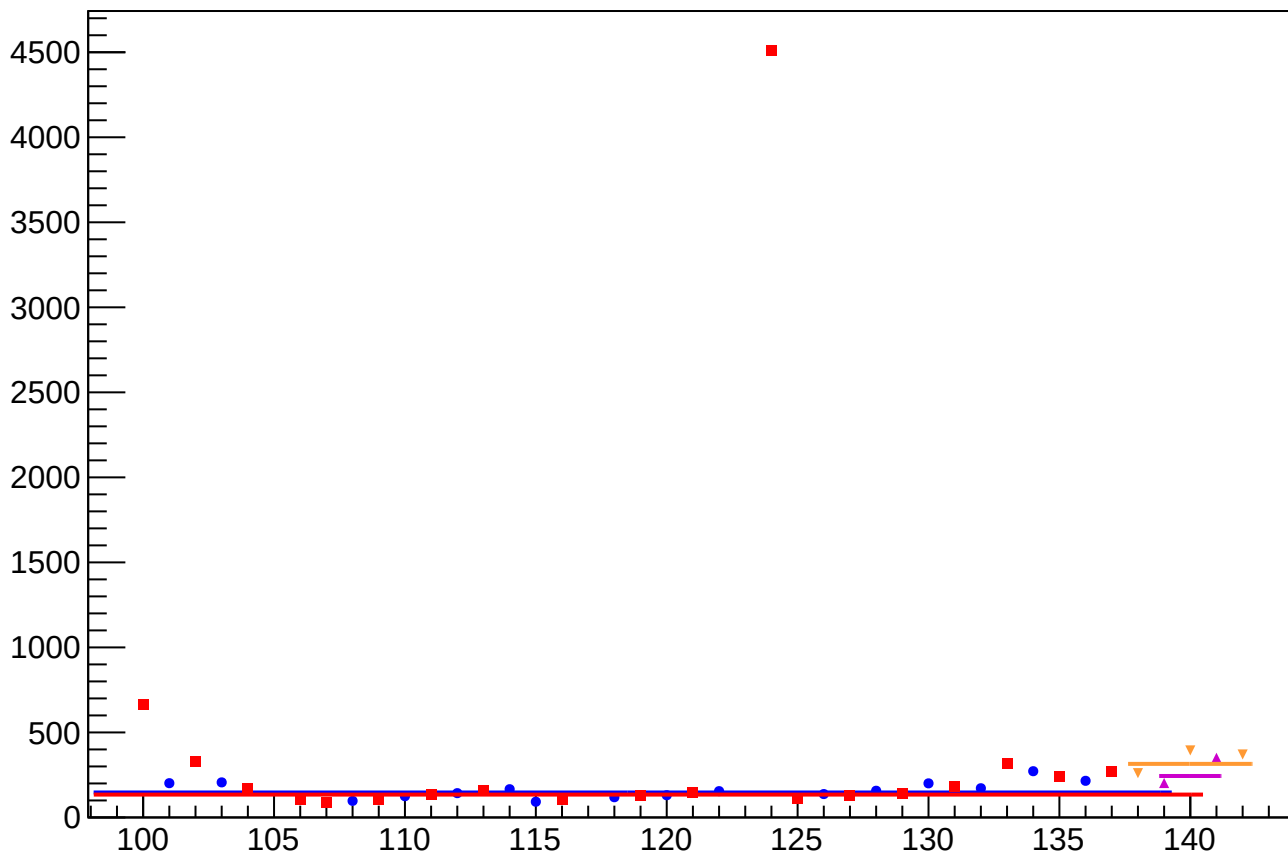
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.053 $\pm$ 0.055 χ^2 /NDF:16.5/17

Out: -0.062 $\pm$ 0.053 χ^2 /NDF:23.8/21

All: -0.006 $\pm$ 0.038 χ^2 /NDF: 42.5/39

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998646.8/15

Left Out: 315.054+/-0.160 χ^2/NDF :151150.3/2

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 243.852+/-0.140 χ^2/NDF :226749.0/1

Left: 274.572+/-0.105 χ^2/NDF : 489850.5/4

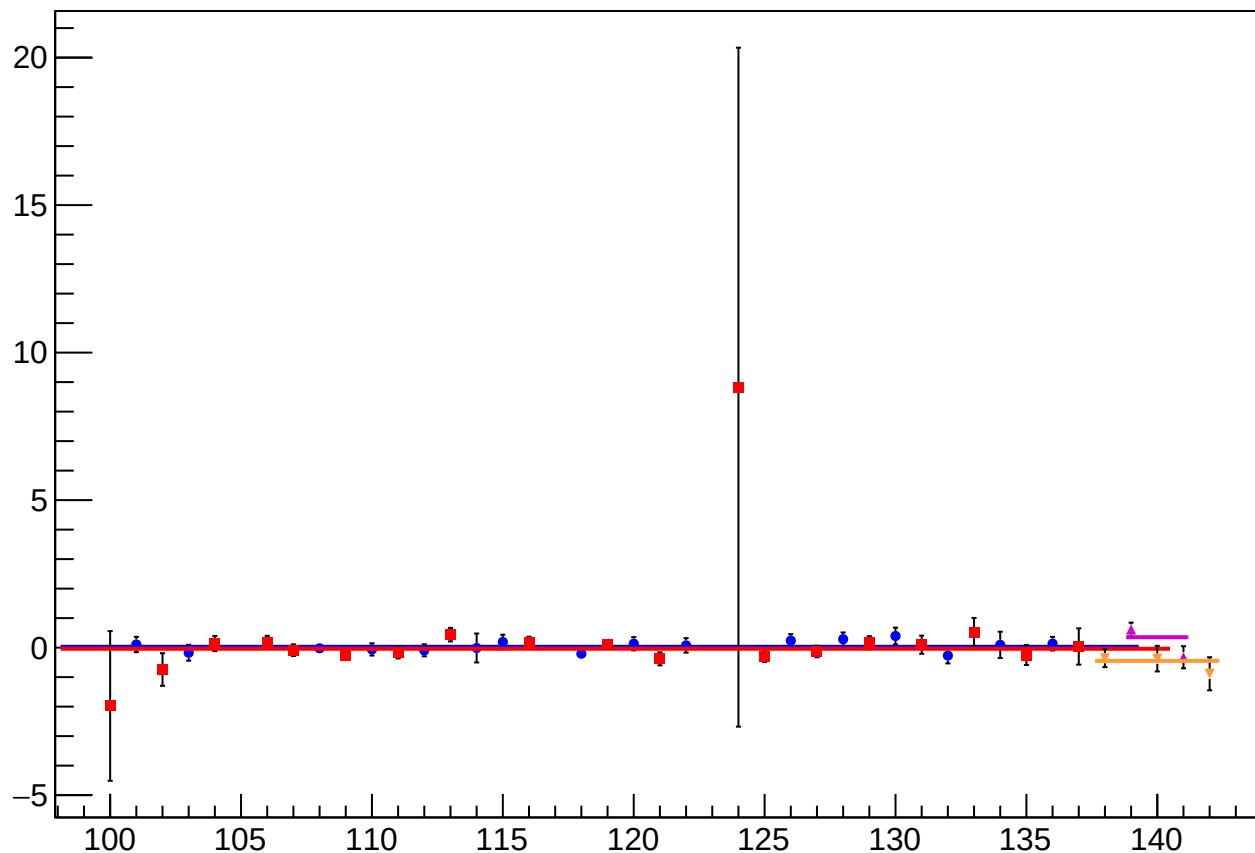
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 154.447+/-0.039 χ^2/NDF :1669358.5/17

Out: 144.448+/-0.038 χ^2/NDF :2953811.0/21

All: 149.250+/-0.027 χ^2/NDF : 4657041.9/39

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.449 $\pm$ 0.227 χ^2 /NDF:0.7/2

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.352 $\pm$ 0.198 χ^2 /NDF:4.5/1

Left: 0.006 $\pm$ 0.149 χ^2 /NDF: 12.4/4

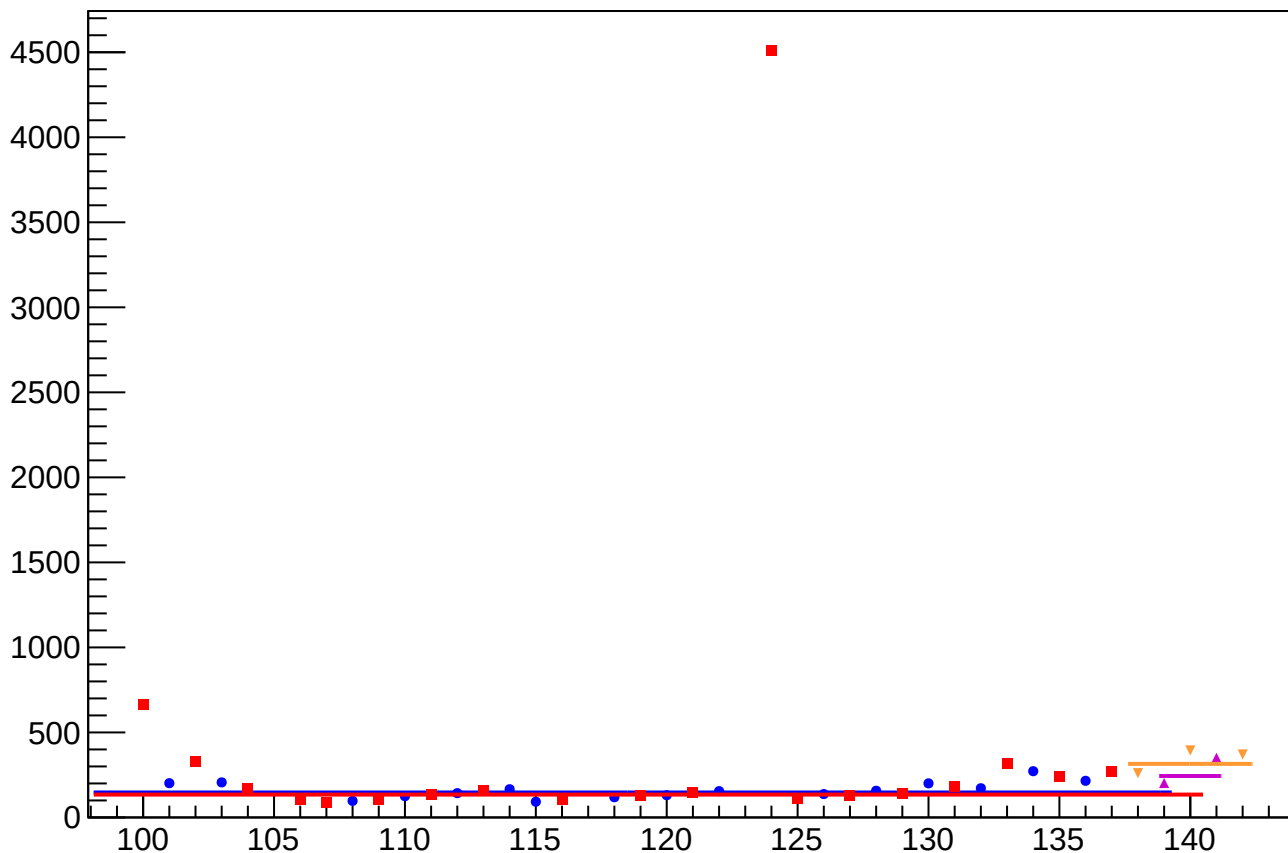
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.053 $\pm$ 0.055 χ^2 /NDF:16.5/17

Out: -0.062 $\pm$ 0.053 χ^2 /NDF:23.8/21

All: -0.006 $\pm$ 0.038 χ^2 /NDF: 42.5/39

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829 $\pm$ 0.041 χ^2 /NDF: 998646.8/15

Left Out: 315.054+/-0.160 χ^2/NDF :151150.3/2

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 243.852+/-0.140 χ^2/NDF :226749.0/1

Left: 274.572 ± 0.105 $\chi^2/\text{NDF}: 489850.5/4$

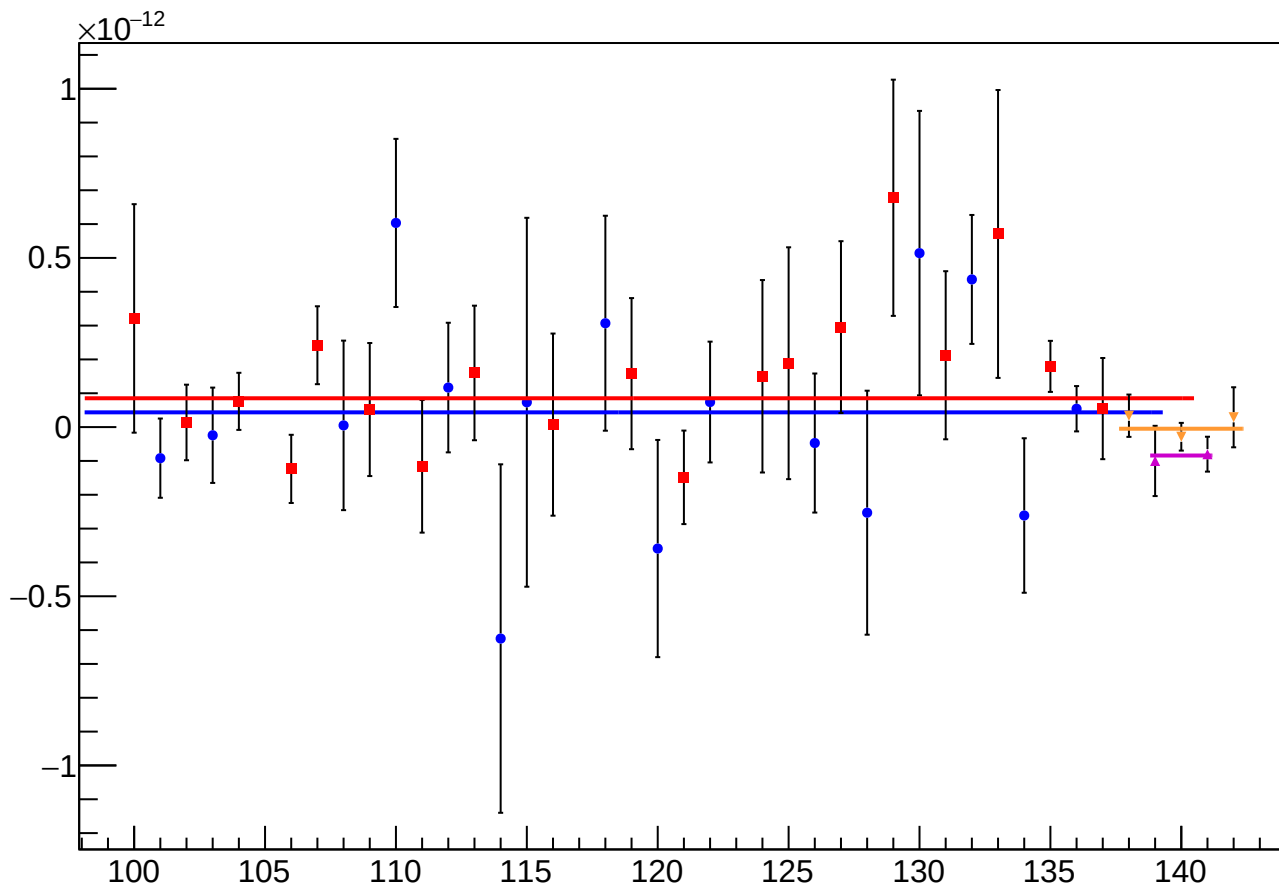
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 154.447+/-0.039 χ^2/NDF :1669358.5/17

Out: 144.448+/-0.038 χ^2/NDF :2953811.0/21

All: 149.250 ± 0.027 χ^2/NDF : 4657041.9/39

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 2.9/4

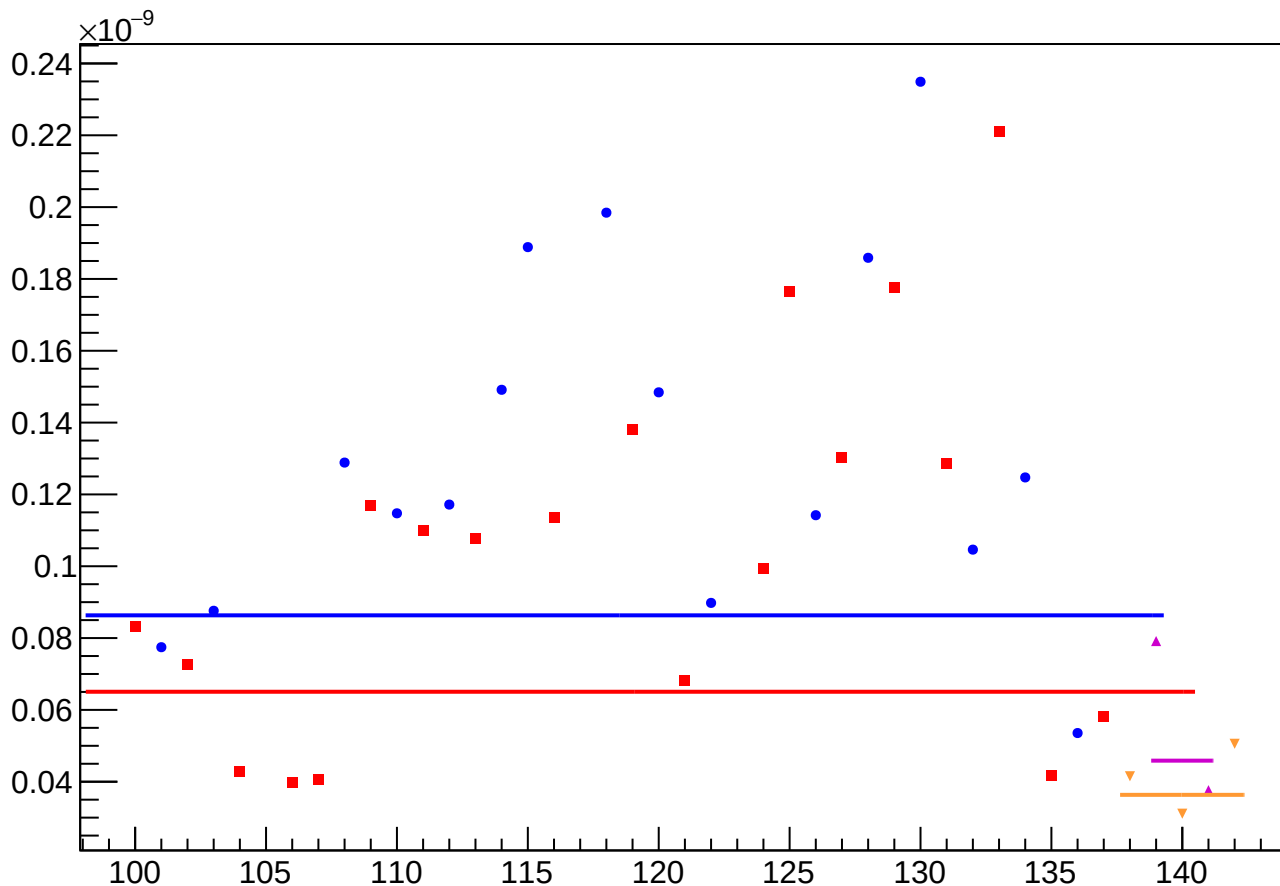
Right: 0.000+/-0.000 χ^2/NDF : 37.8/34

In: -0.000+/-0.000 χ^2/NDF : 23.1/17

Out: 0.000+/-0.000 χ^2/NDF : 22.8/21

All: 0.000+/-0.000 χ^2/NDF : 47.7/39

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1565662.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 97819.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2158861.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 256625.8/1

Left: 0.000+/-0.000 χ^2/NDF : 411929.0/4

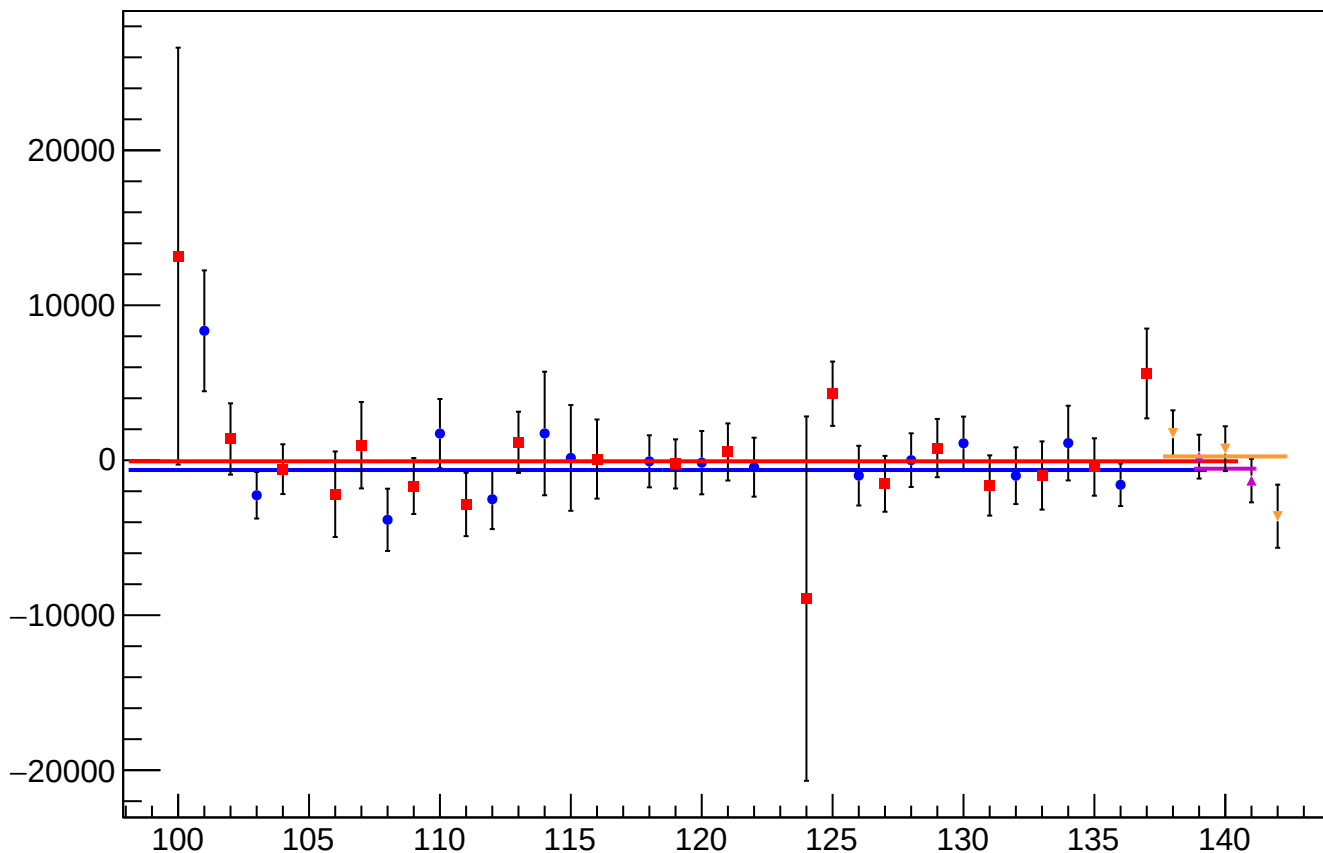
Right: 0.000+/-0.000 χ^2/NDF : 4026528.8/34

In: 0.000+/-0.000 χ^2/NDF : 2649362.1/17

Out: 0.000+/-0.000 χ^2/NDF : 3008059.1/21

All: 0.000+/-0.000 χ^2/NDF : 6078447.6/39

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -631.041+/-488.663 χ^2/NDF : 13.9/15

Left Out: 247.683+/-920.243 χ^2/NDF : 4.8/2

Right Out: -67.642+/-487.761 χ^2/NDF : 15.9/18

Left In: -544.636+/-997.379 χ^2/NDF : 0.6/1

Left: -116.657+/-676.338 χ^2/NDF : 5.7/4

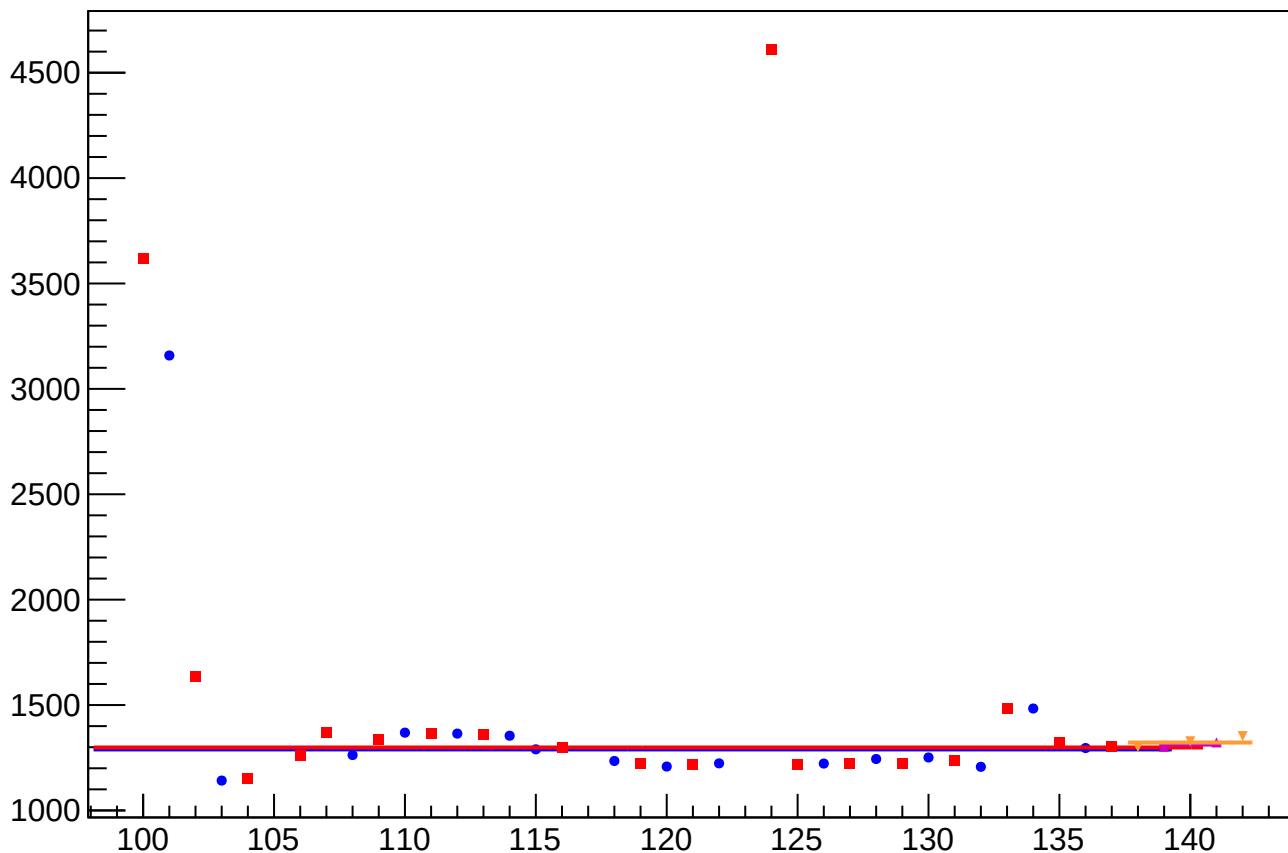
Right: -348.821+/-345.217 χ^2/NDF : 30.4/34

In: -614.315+/-438.824 χ^2/NDF : 14.5/17

Out: 1.515+/-430.966 χ^2/NDF : 20.7/21

All: -300.837+/-307.479 χ^2/NDF : 36.2/39

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514675.0/15

Left Out: 1322.159+/-0.651 χ^2/NDF : 909.7/2

Right Out: 1298.656+/-0.344 χ^2/NDF : 319374.9/18

Left In: 1312.384+/-0.705 χ^2/NDF : 216.7/1

Left: 1317.664+/-0.478 χ^2/NDF : 1230.2/4

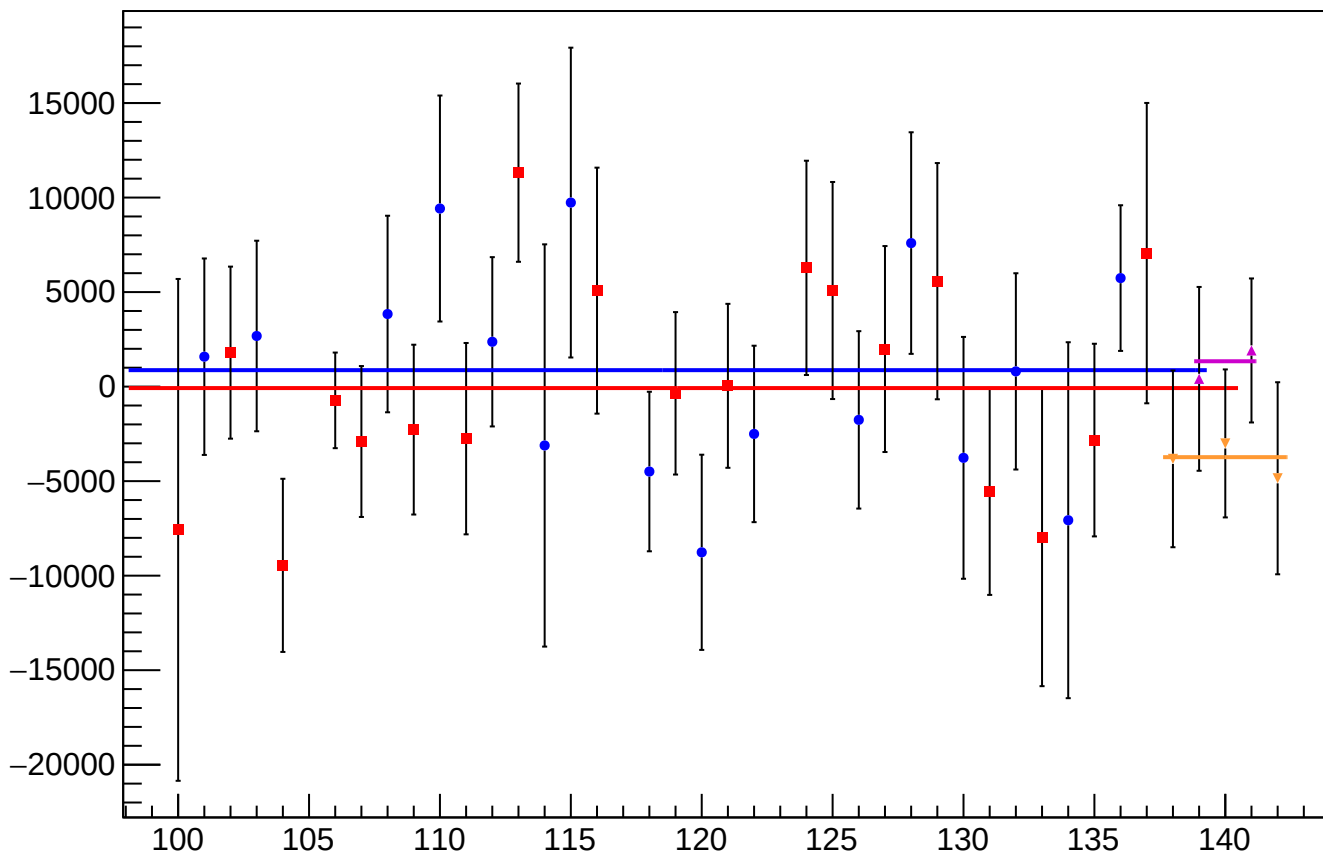
Right: 1294.081+/-0.244 χ^2/NDF : 834405.1/34

In: 1293.903+/-0.310 χ^2/NDF : 515743.3/17

Out: 1303.789+/-0.304 χ^2/NDF : 321304.2/21

All: 1298.945+/-0.217 χ^2/NDF : 837565.4/39

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 870.295 $\pm$ 1325.278 χ^2 /NDF: 14.0/15

Left Out: -3731.672 $\pm$ 2583.711 χ^2 /NDF:0.1/2

Right Out: -77.323 $\pm$ 1111.074 χ^2 /NDF: 18.4/18

Left In: 1340.957 $\pm$ 2998.457 χ^2 /NDF:0.1/1

Left: -1570.177 $\pm$ 1957.305 χ^2 /NDF: 1.8/4

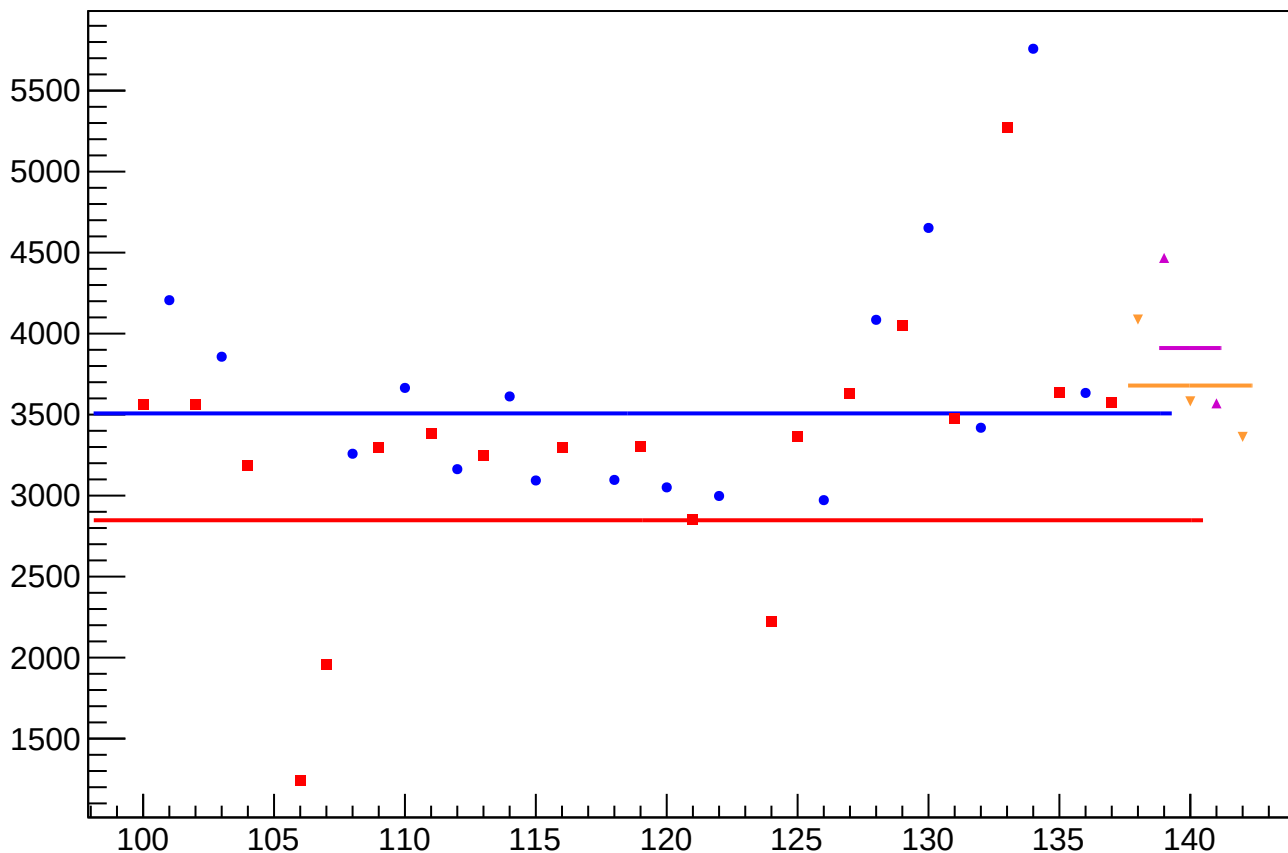
Right: 313.810 $\pm$ 851.438 χ^2 /NDF: 32.7/34

In: 947.213 $\pm$ 1212.158 χ^2 /NDF:14.1/17

Out: -647.641 $\pm$ 1020.698 χ^2 /NDF:20.1/21

All: 14.031 $\pm$ 780.765 χ^2 /NDF: 35.3/39

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3507.397+/-0.937 χ^2 /NDF: 353979.1/15

Left Out: 3679.410+/-1.827 χ^2 /NDF: 24220.0/2

Right Out: 2847.833+/-0.786 χ^2 /NDF: 1499373.6/18

Left In: 3910.991+/-2.120 χ^2 /NDF: 42242.3/1

Left: 3778.089+/-1.384 χ^2 /NDF: 73308.7/4

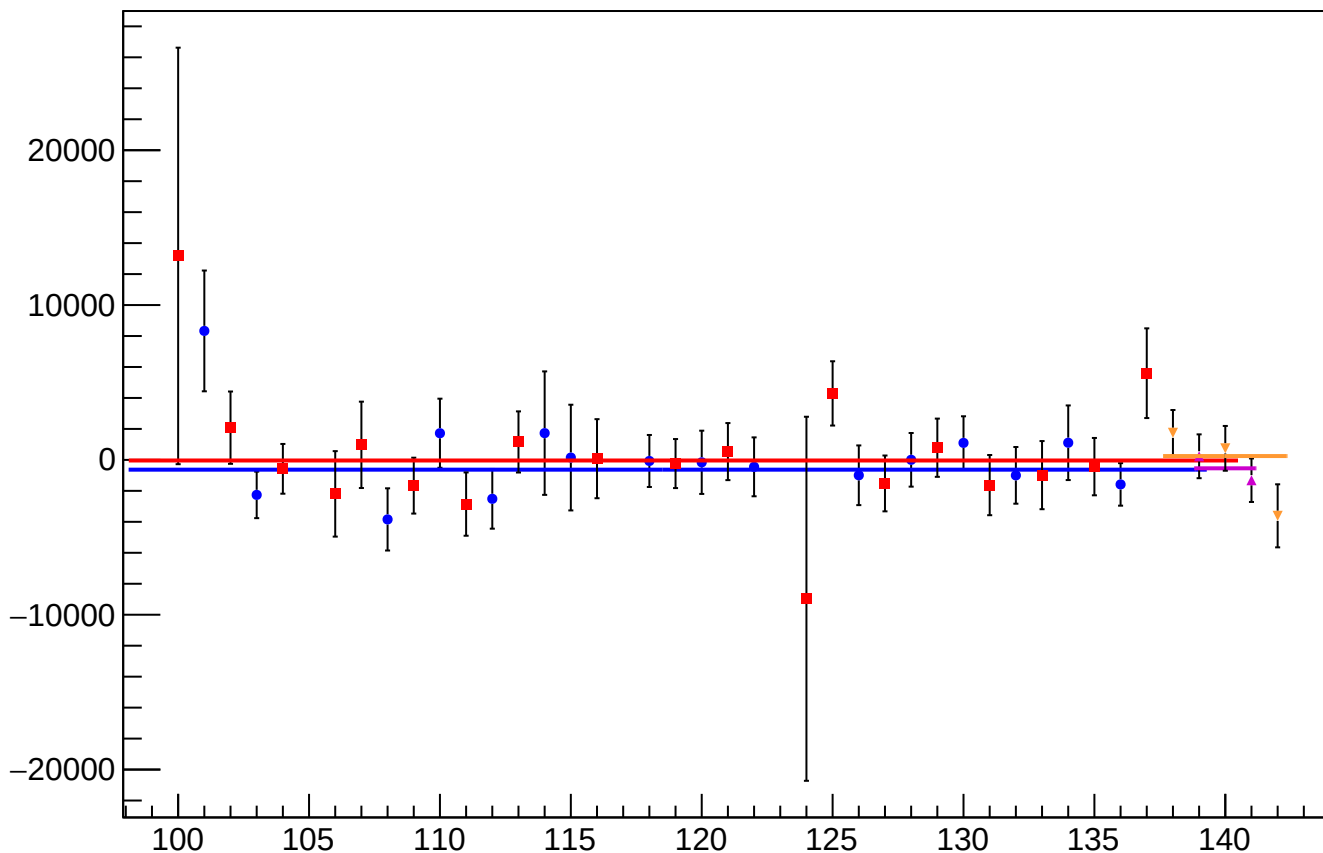
Right: 3120.071+/-0.602 χ^2 /NDF: 2144256.9/34

In: 3573.355+/-0.857 χ^2 /NDF: 426534.2/17

Out: 2977.613+/-0.722 χ^2 /NDF: 1698439.6/21

All: 3224.774+/-0.552 χ^2 /NDF: 2407639.6/39

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2/NDF : 13.9/15

Left Out: 247.692+/-920.243 χ^2/NDF : 4.8/2

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -544.413+/-997.379 χ^2/NDF : 0.6/1

Left: -116.550+/-676.338 χ^2/NDF : 5.7/4

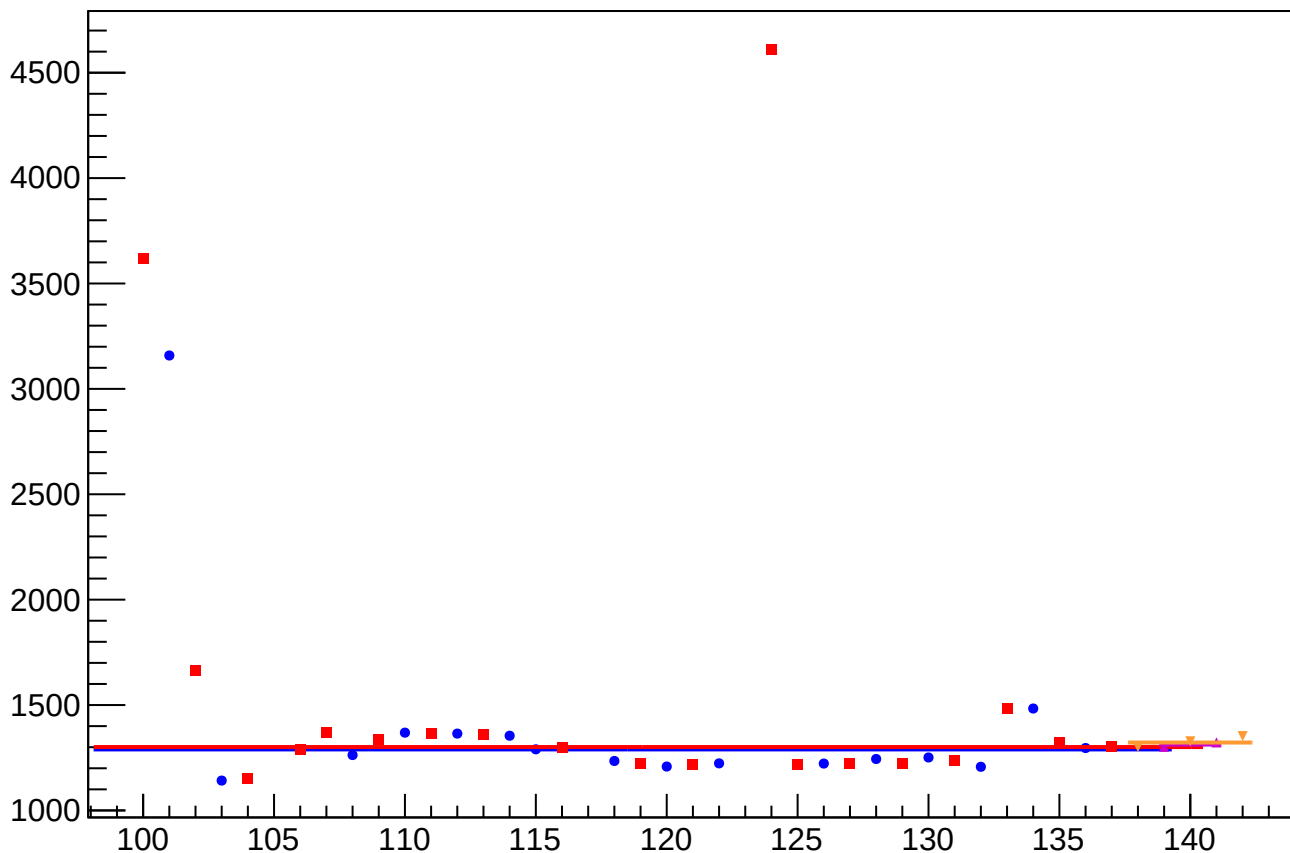
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -614.583+/-438.824 χ^2/NDF : 14.5/17

Out: 24.237+/-431.189 χ^2/NDF : 21.2/21

All: -289.567+/-307.560 χ^2/NDF : 36.7/39

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514676.5/15

Left Out: 1322.159+/-0.651 χ^2/NDF : 909.7/2

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1312.384+/-0.705 χ^2/NDF : 216.7/1

Left: 1317.664+/-0.478 χ^2/NDF : 1230.2/4

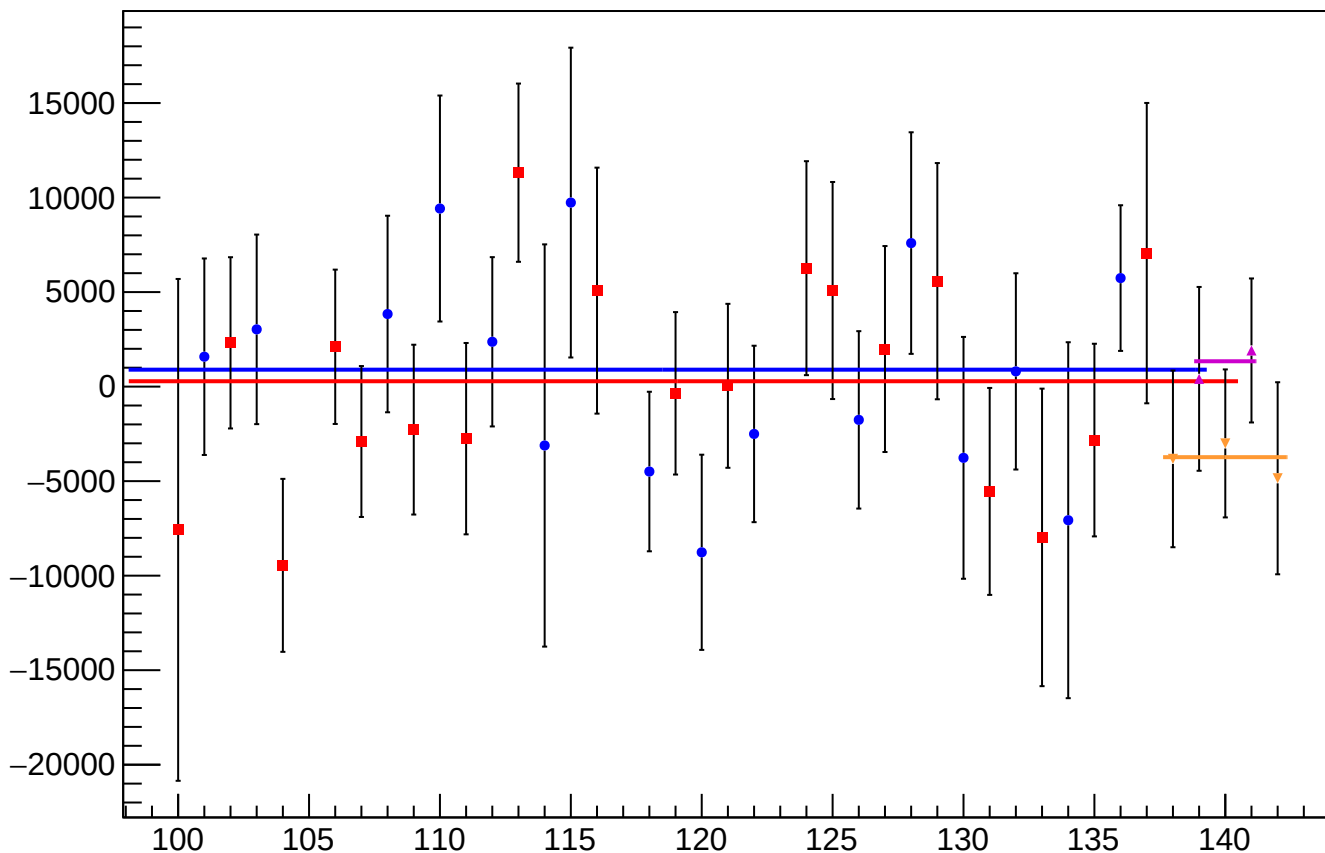
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1293.902+/-0.310 χ^2/NDF : 515744.8/17

Out: 1305.385+/-0.304 χ^2/NDF : 327668.1/21

All: 1299.753+/-0.217 χ^2/NDF : 844110.6/39

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017 ± 1324.823 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -3731.705 ± 2583.709 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 283.963 ± 1183.171 $\chi^2/\text{NDF}: 18.6/18$

Left In: 1340.949 ± 2998.450 $\chi^2/\text{NDF}: 0.1/1$

Left: -1570.196 ± 1957.302 $\chi^2/\text{NDF}: 1.8/4$

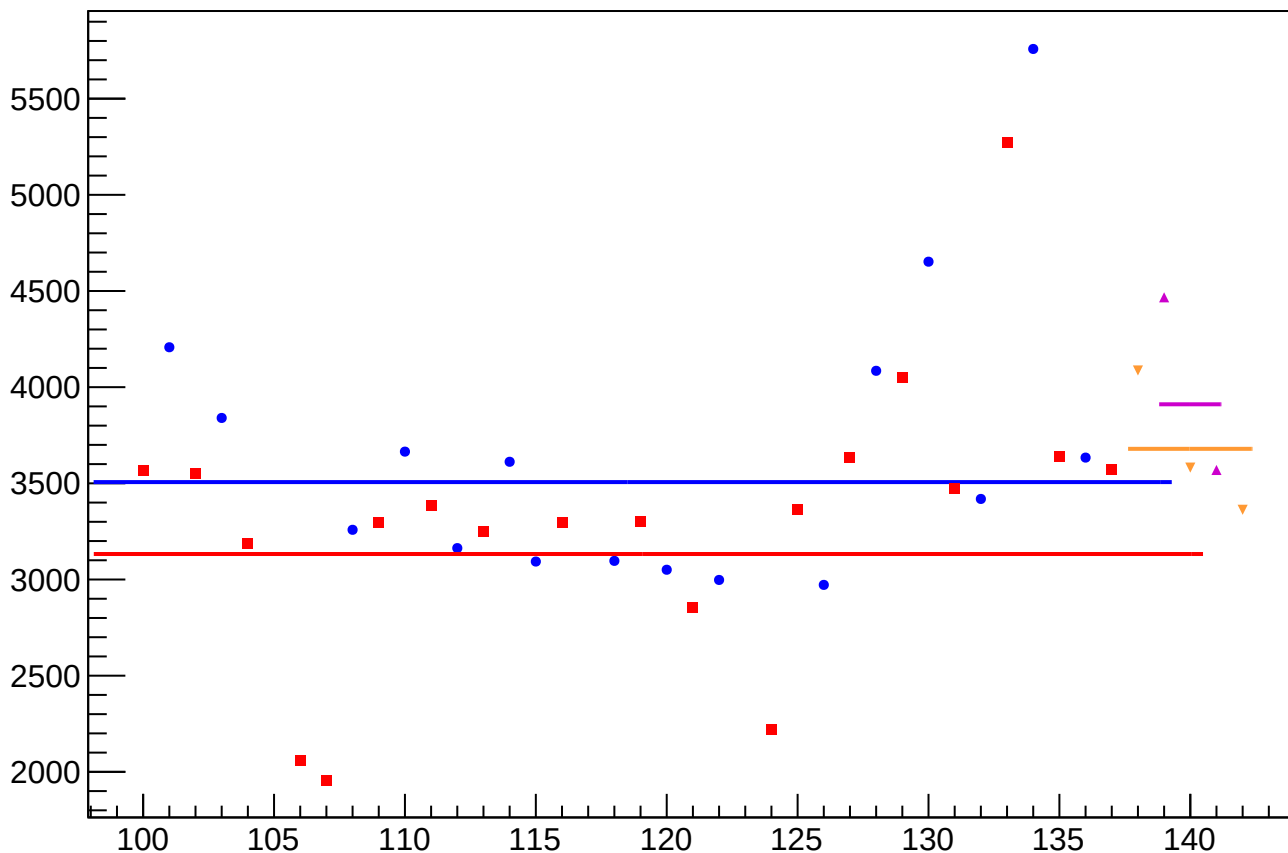
Right: 555.531 ± 882.475 $\chi^2/\text{NDF}: 32.8/34$

In: 968.689 ± 1211.809 $\chi^2/\text{NDF}: 14.2/17$

Out: -412.161 ± 1075.742 $\chi^2/\text{NDF}: 20.7/21$

All: 196.418 ± 804.488 $\chi^2/\text{NDF}: 35.6/39$

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484+/-0.937 χ^2/NDF : 353237.7/15

Left Out: 3679.407+/-1.827 χ^2/NDF : 24219.8/2

Right Out: 3132.586+/-0.837 χ^2/NDF : 649611.1/18

Left In: 3910.982+/-2.120 χ^2/NDF : 42241.5/1

Left: 3778.084+/-1.384 χ^2/NDF : 73307.5/4

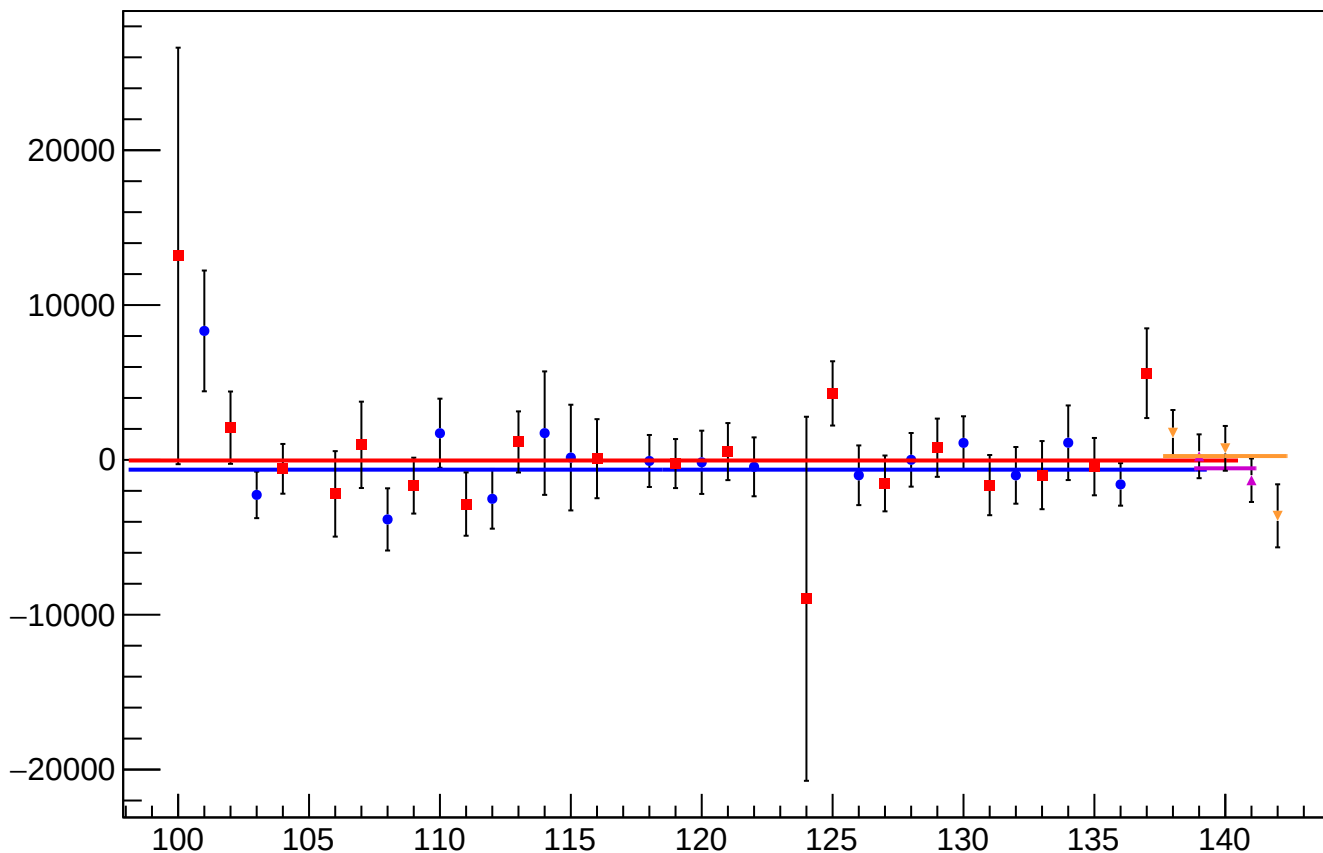
Right: 3298.485+/-0.624 χ^2/NDF : 1091468.2/34

In: 3572.552+/-0.857 χ^2/NDF : 425931.7/17

Out: 3227.379+/-0.761 χ^2/NDF : 747885.7/21

All: 3379.506+/-0.569 χ^2/NDF : 1264569.9/39

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2/NDF : 13.9/15

Left Out: 247.692+/-920.243 χ^2/NDF : 4.8/2

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -544.413+/-997.379 χ^2/NDF : 0.6/1

Left: -116.550+/-676.338 χ^2/NDF : 5.7/4

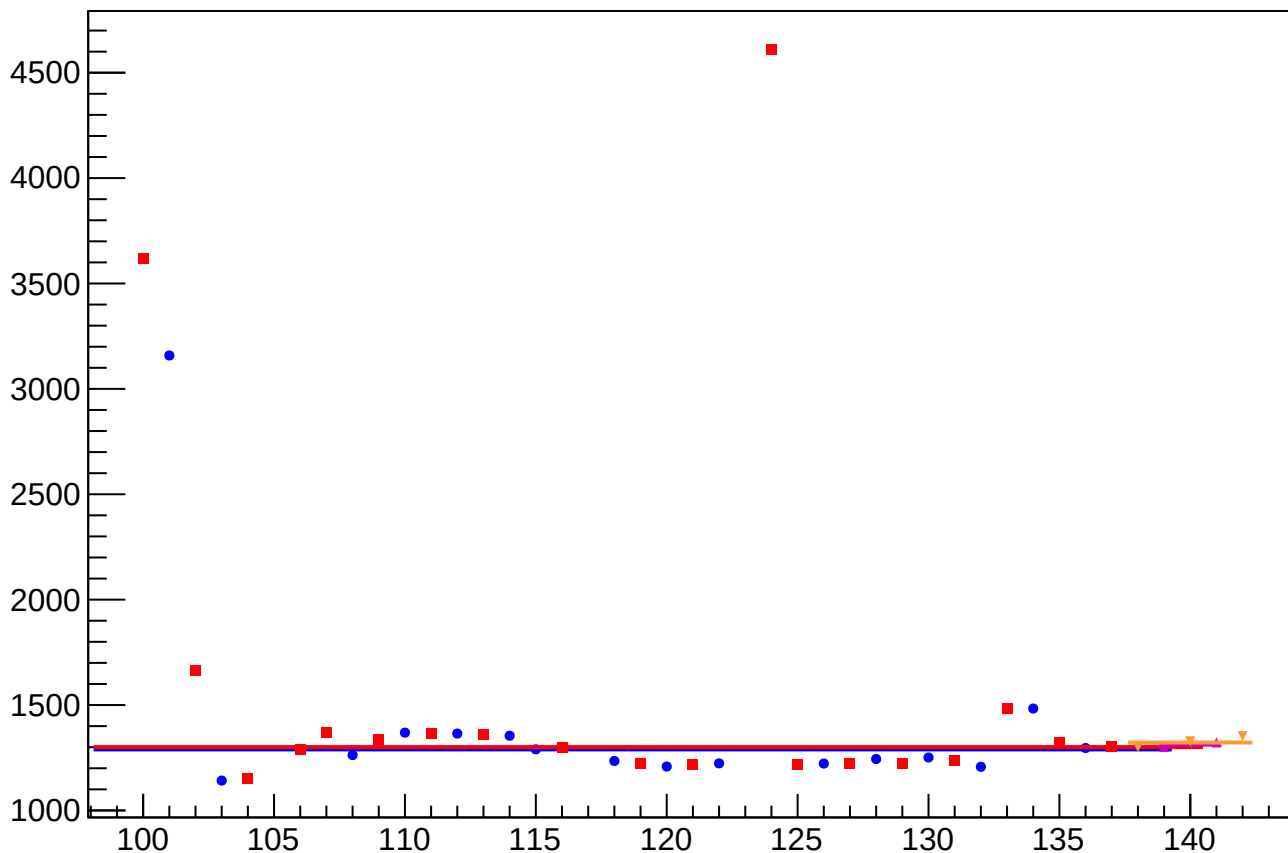
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -614.583+/-438.824 χ^2/NDF : 14.5/17

Out: 24.237+/-431.189 χ^2/NDF : 21.2/21

All: -289.567+/-307.560 χ^2/NDF : 36.7/39

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514676.5/15

Left Out: 1322.159+/-0.651 χ^2/NDF : 909.7/2

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1312.384+/-0.705 χ^2/NDF : 216.7/1

Left: 1317.664+/-0.478 χ^2/NDF : 1230.2/4

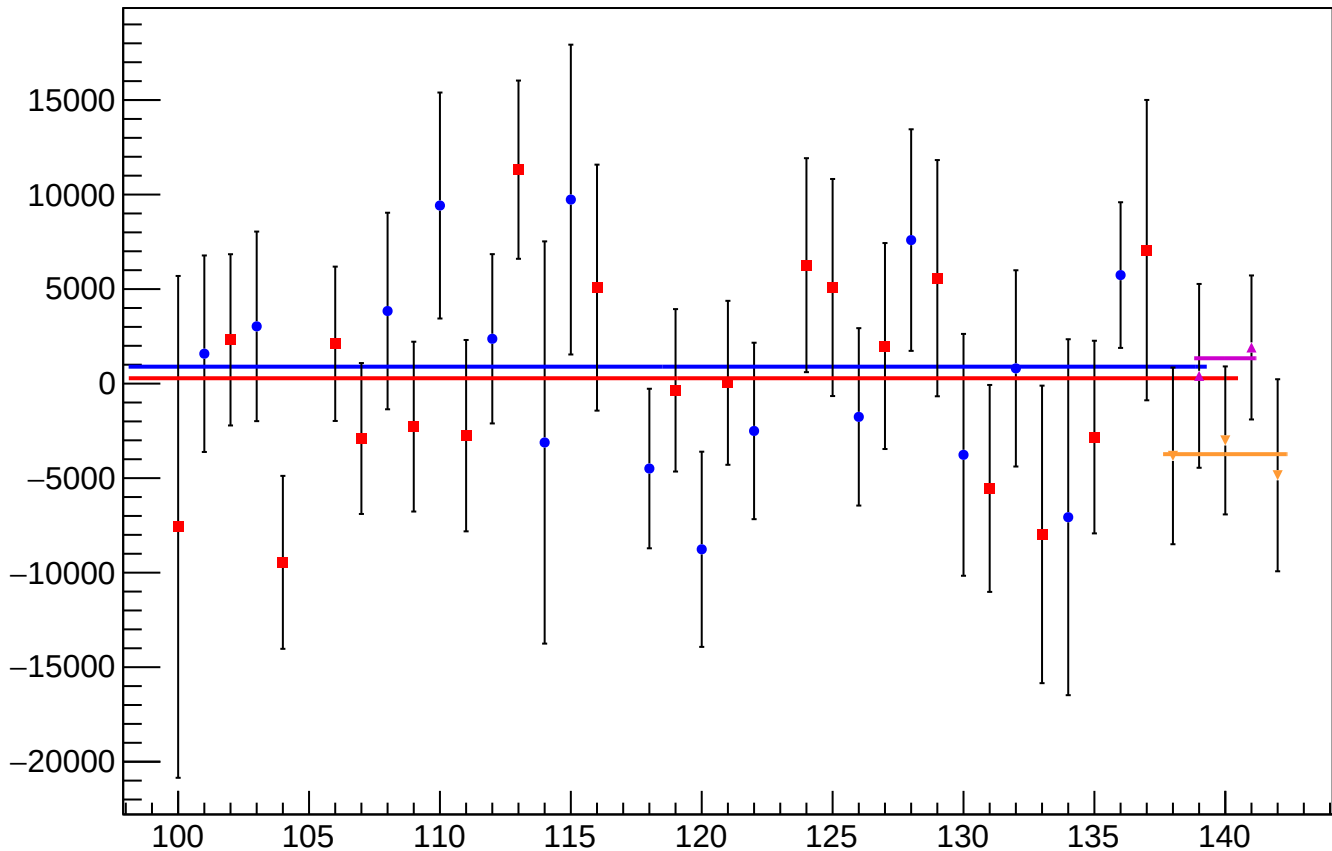
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1293.902+/-0.310 χ^2/NDF : 515744.8/17

Out: 1305.385+/-0.304 χ^2/NDF : 327668.1/21

All: 1299.753+/-0.217 χ^2/NDF : 844110.6/39

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017 $\pm$ 1324.823 χ^2 /NDF: 14.1/15

Left Out: -3731.705 $\pm$ 2583.709 χ^2 /NDF:0.1/2

Right Out: 283.963 $\pm$ 1183.171 χ^2 /NDF: 18.6/18

Left In: 1340.949 $\pm$ 2998.450 χ^2 /NDF:0.1/1

Left: -1570.196 $\pm$ 1957.302 χ^2 /NDF: 1.8/4

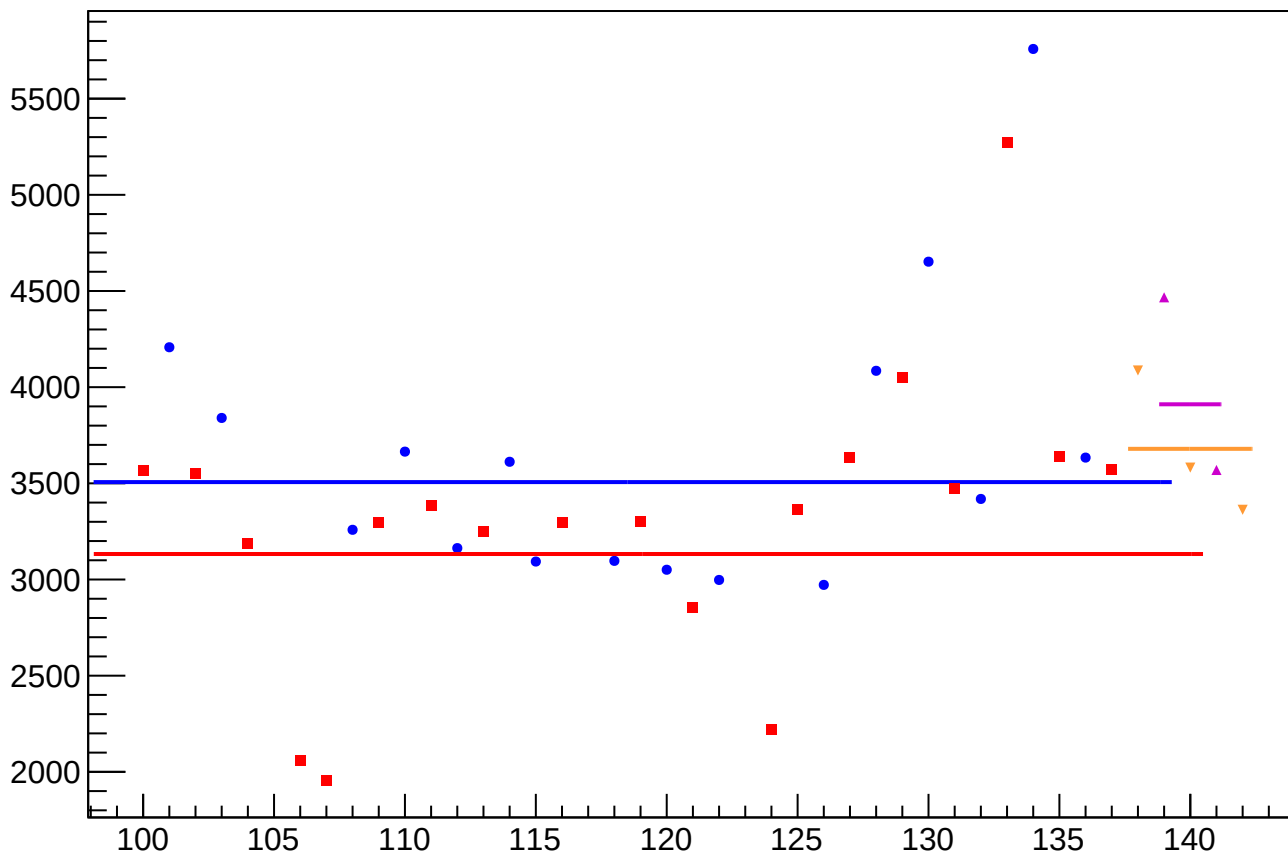
Right: 555.531 $\pm$ 882.475 χ^2 /NDF: 32.8/34

In: 968.689 $\pm$ 1211.809 χ^2 /NDF:14.2/17

Out: -412.161 $\pm$ 1075.742 χ^2 /NDF:20.7/21

All: 196.418 $\pm$ 804.488 χ^2 /NDF: 35.6/39

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484+/-0.937 χ^2/NDF : 353237.7/15

Left Out: 3679.407+/-1.827 χ^2/NDF : 24219.8/2

Right Out: 3132.586+/-0.837 χ^2/NDF : 649611.1/18

Left In: 3910.982+/-2.120 χ^2/NDF : 42241.5/1

Left: 3778.084+/-1.384 χ^2/NDF : 73307.5/4

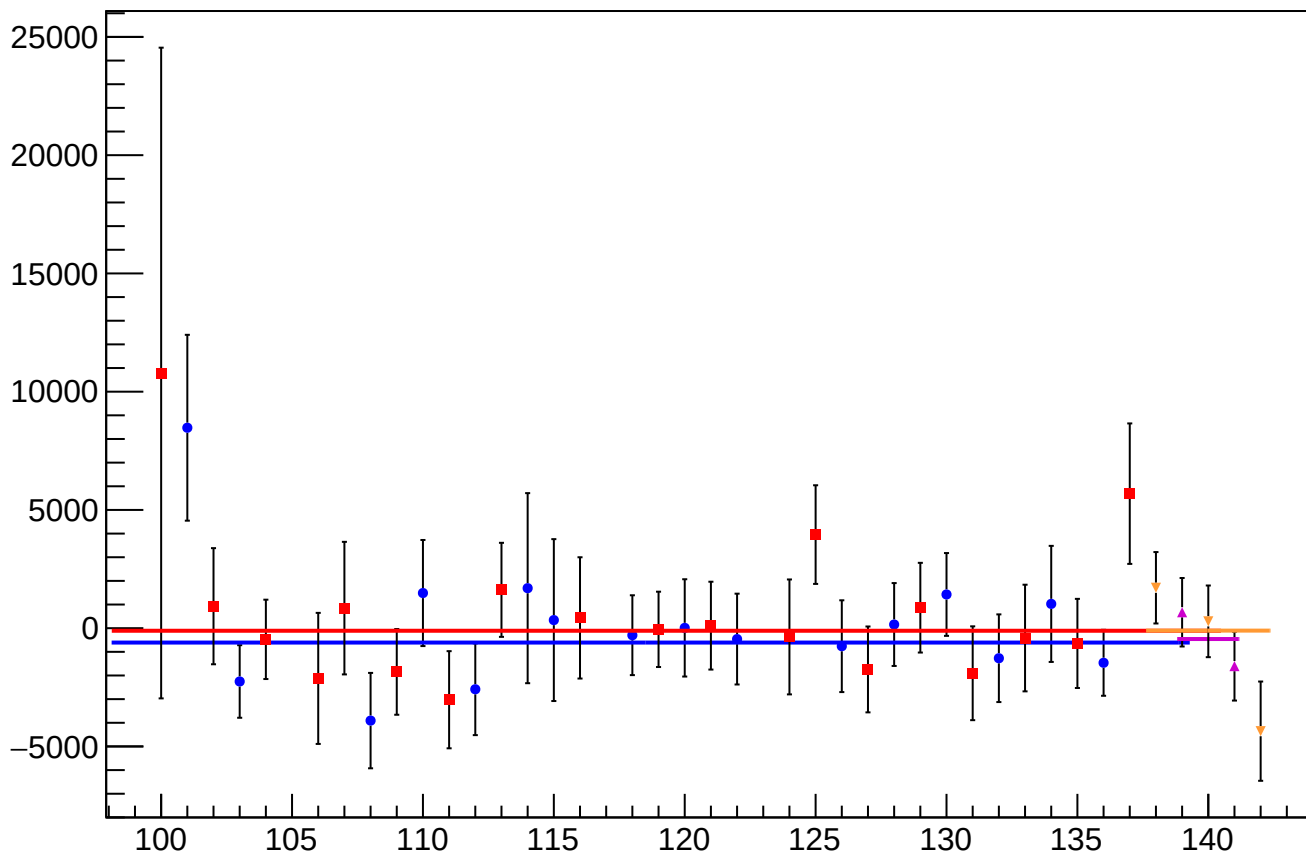
Right: 3298.485+/-0.624 χ^2/NDF : 1091468.2/34

In: 3572.552+/-0.857 χ^2/NDF : 425931.7/17

Out: 3227.379+/-0.761 χ^2/NDF : 747885.7/21

All: 3379.506+/-0.569 χ^2/NDF : 1264569.9/39

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -607.831+/-494.182 χ^2/NDF : 14.1/15

Left Out: -102.420+/-952.859 χ^2/NDF : 5.6/2

Right Out: -108.614+/-485.552 χ^2/NDF : 14.9/18

Left In: -458.128+/-1026.913 χ^2/NDF : 1.2/1

Left: -266.987+/-698.487 χ^2/NDF : 6.9/4

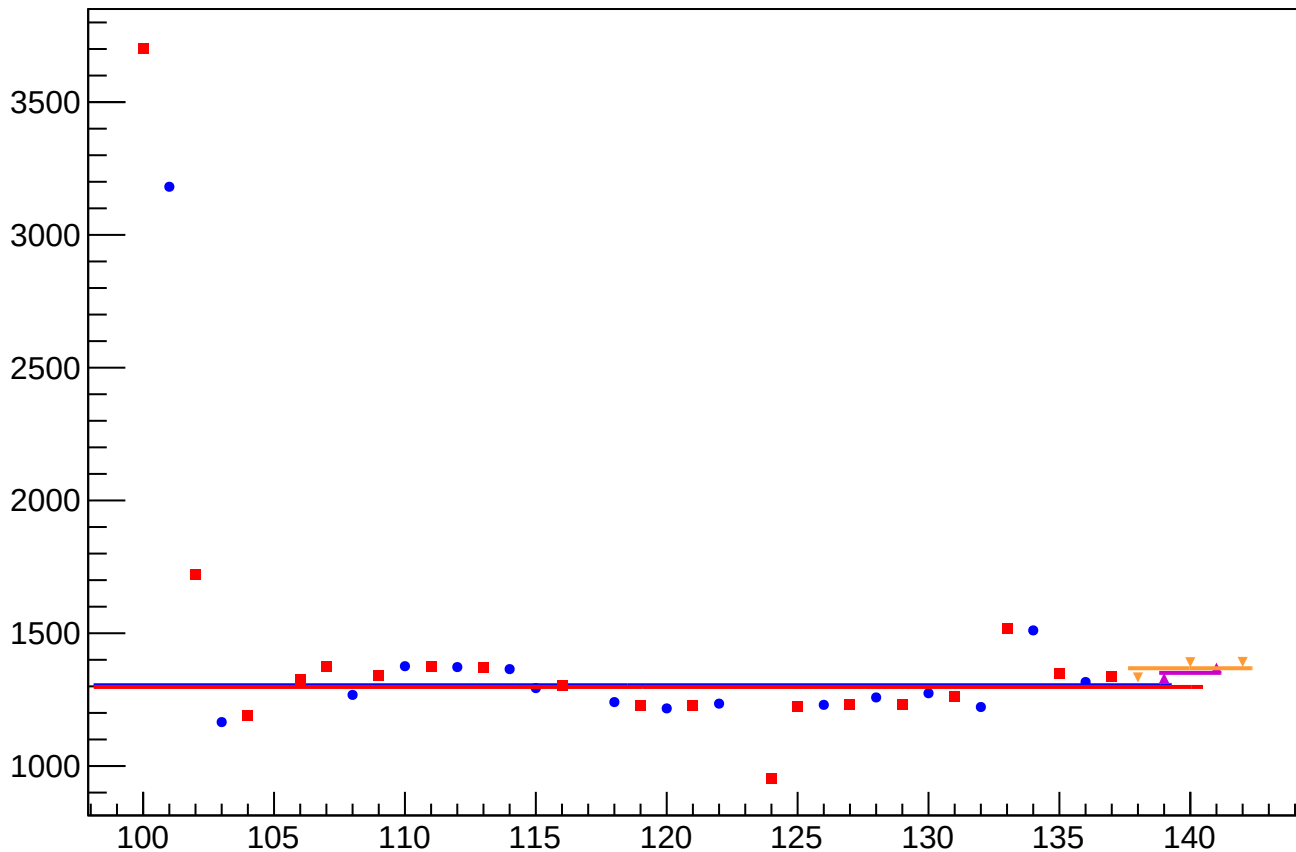
Right: -353.826+/-346.348 χ^2/NDF : 29.5/34

In: -579.681+/-445.302 χ^2/NDF : 15.4/17

Out: -107.337+/-432.622 χ^2/NDF : 20.5/21

All: -336.688+/-310.296 χ^2/NDF : 36.4/39

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1304.102+/-0.349 χ^2/NDF : 510589.4/15

Left Out: 1368.240+/-0.674 χ^2/NDF : 1763.2/2

Right Out: 1297.796+/-0.343 χ^2/NDF : 213096.9/18

Left In: 1350.869+/-0.726 χ^2/NDF : 712.8/1

Left: 1360.204+/-0.494 χ^2/NDF : 2783.5/4

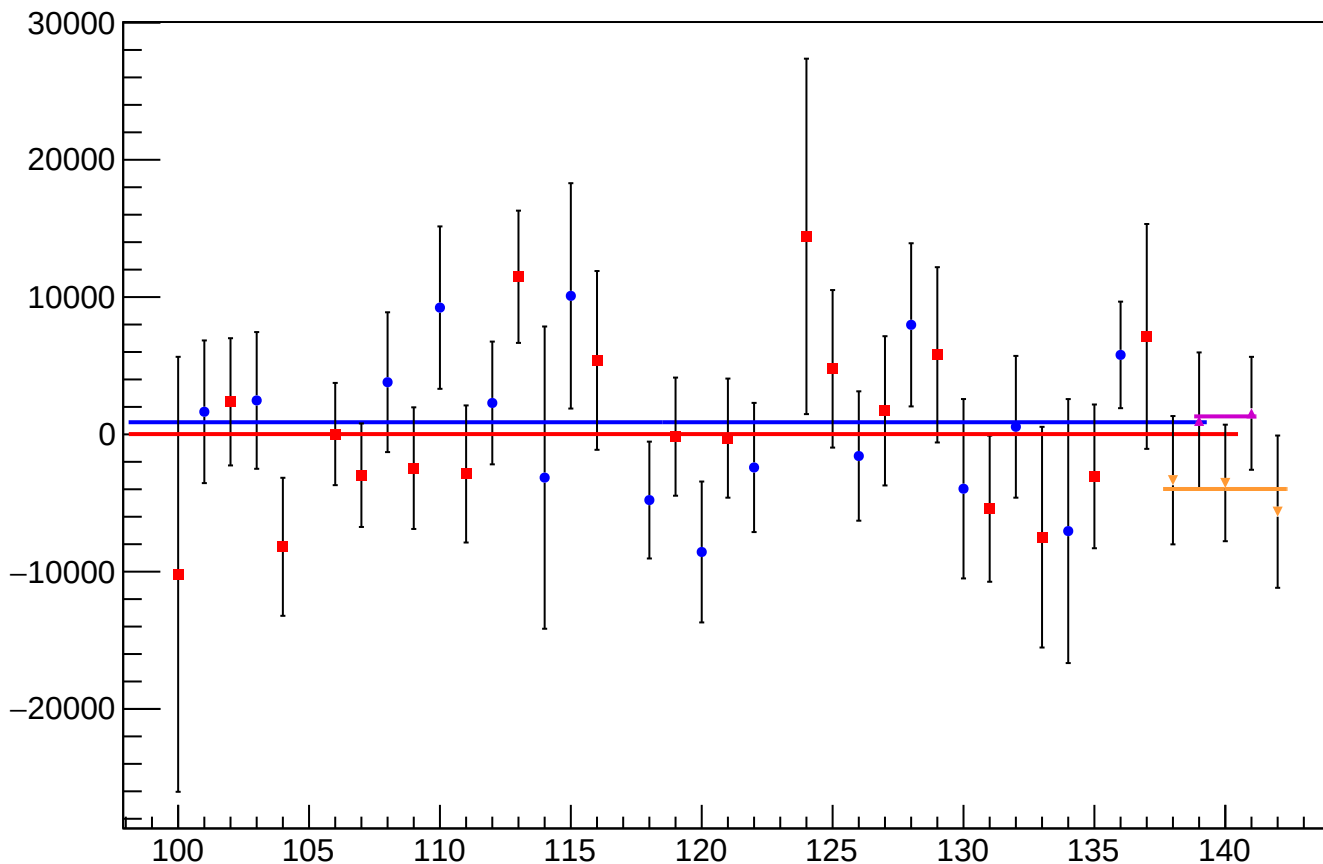
Right: 1300.891+/-0.245 χ^2/NDF : 723852.1/34

In: 1312.896+/-0.315 χ^2/NDF : 514670.3/17

Out: 1312.300+/-0.306 χ^2/NDF : 223540.5/21

All: 1312.589+/-0.219 χ^2/NDF : 738212.6/39

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.058 $\pm$ 1327.399 χ^2 /NDF: 14.1/15

Left Out: -3978.491 $\pm$ 2733.713 χ^2 /NDF:0.1/2

Right Out: 20.681 $\pm$ 1200.015 χ^2 /NDF: 16.8/18

Left In: 1309.261 $\pm$ 3173.459 χ^2 /NDF:0.0/1

Left: -1726.079 $\pm$ 2071.196 χ^2 /NDF: 1.7/4

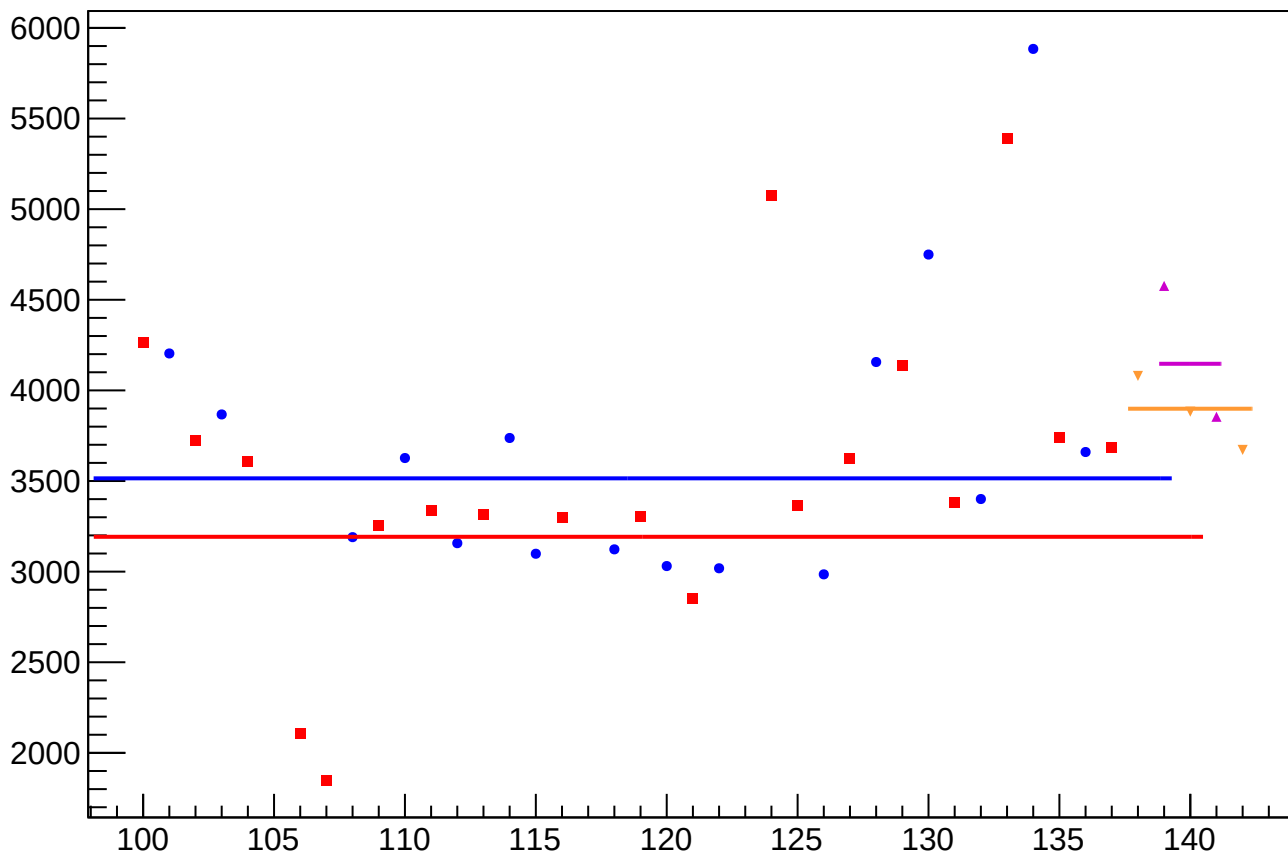
Right: 408.965 $\pm$ 890.176 χ^2 /NDF: 31.2/34

In: 947.373 $\pm$ 1224.588 χ^2 /NDF:14.1/17

Out: -625.432 $\pm$ 1098.809 χ^2 /NDF:18.7/21

All: 76.074 $\pm$ 817.840 χ^2 /NDF: 33.8/39

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.746+/-0.939 χ^2/NDF : 375078.6/15

Left Out: 3898.865+/-1.933 χ^2/NDF : 6386.5/2

Right Out: 3192.203+/-0.849 χ^2/NDF : 772495.7/18

Left In: 4146.801+/-2.244 χ^2/NDF : 24941.6/1

Left: 4004.477+/-1.465 χ^2/NDF : 38335.8/4

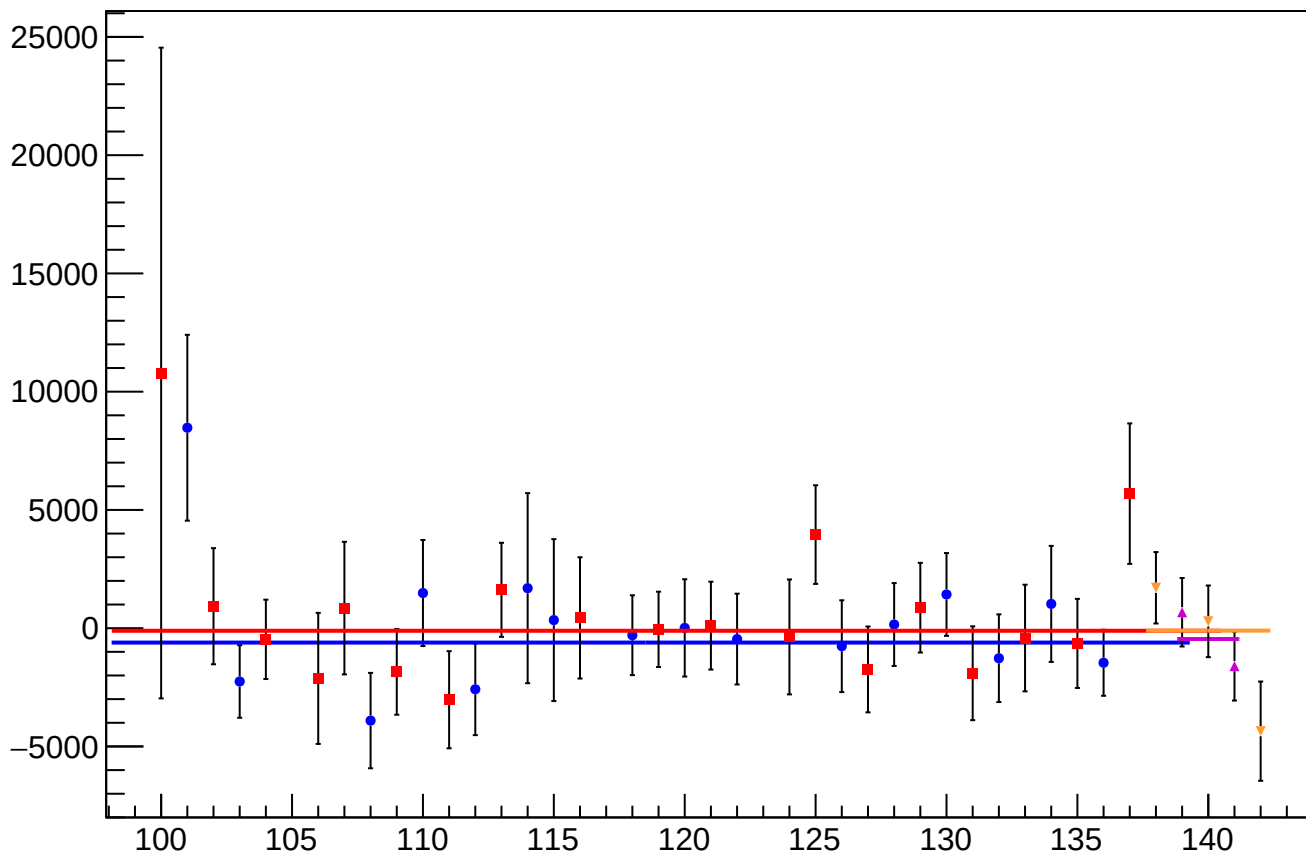
Right: 3337.259+/-0.629 χ^2/NDF : 1212554.2/34

In: 3608.863+/-0.866 χ^2/NDF : 467543.2/17

Out: 3306.373+/-0.777 χ^2/NDF : 890933.7/21

All: 3441.290+/-0.578 χ^2/NDF : 1426079.6/39

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -607.834+/-494.182 χ^2/NDF : 14.1/15

Left Out: -102.431+/-952.859 χ^2/NDF : 5.6/2

Right Out: -108.619+/-485.553 χ^2/NDF : 14.9/18

Left In: -458.120+/-1026.914 χ^2/NDF : 1.2/1

Left: -266.989+/-698.488 χ^2/NDF : 6.9/4

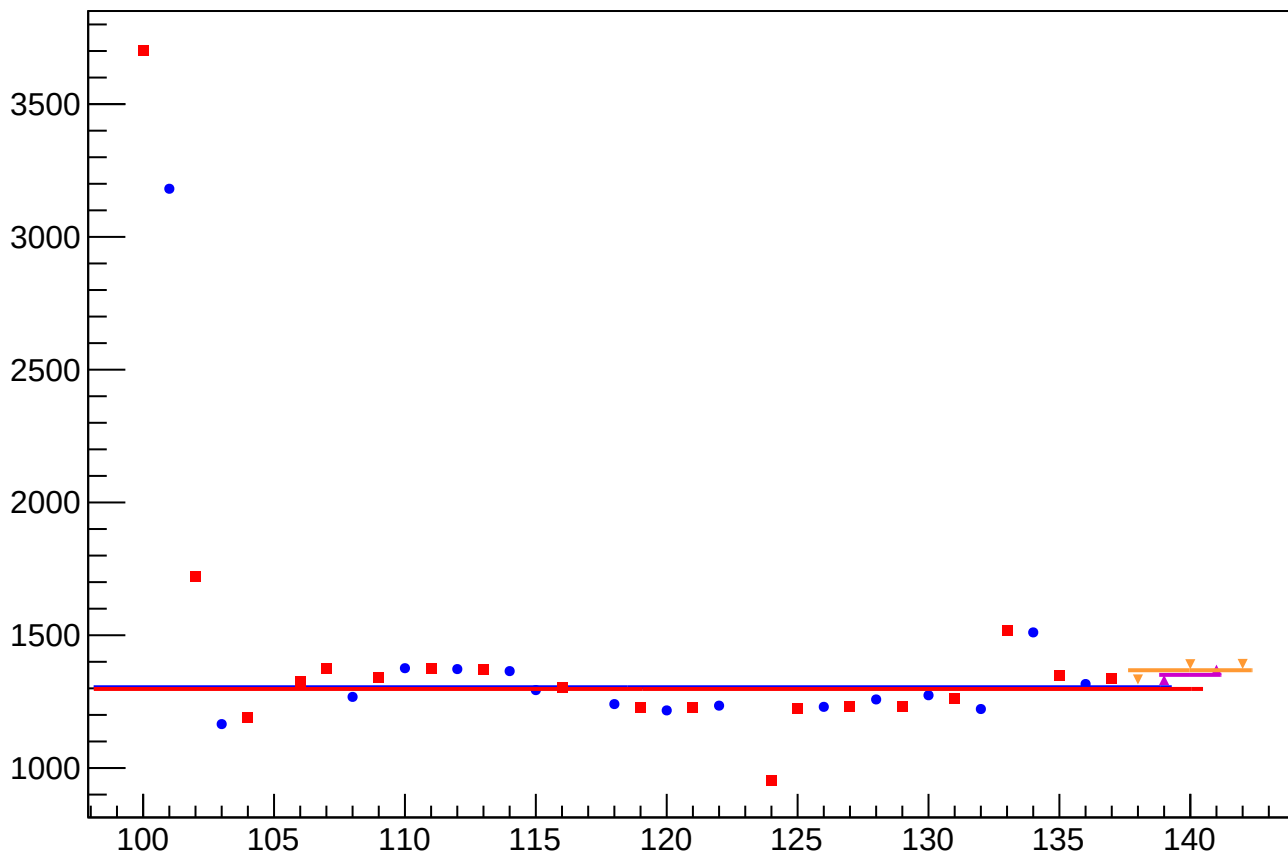
Right: -353.830+/-346.348 χ^2/NDF : 29.5/34

In: -579.682+/-445.302 χ^2/NDF : 15.4/17

Out: -107.344+/-432.622 χ^2/NDF : 20.5/21

All: -336.692+/-310.296 χ^2/NDF : 36.4/39

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1304.102+/-0.349 χ^2/NDF : 510589.6/15

Left Out: 1368.241+/-0.674 χ^2/NDF : 1763.2/2

Right Out: 1297.796+/-0.343 χ^2/NDF : 213097.0/18

Left In: 1350.870+/-0.726 χ^2/NDF : 712.8/1

Left: 1360.204+/-0.494 χ^2/NDF : 2783.5/4

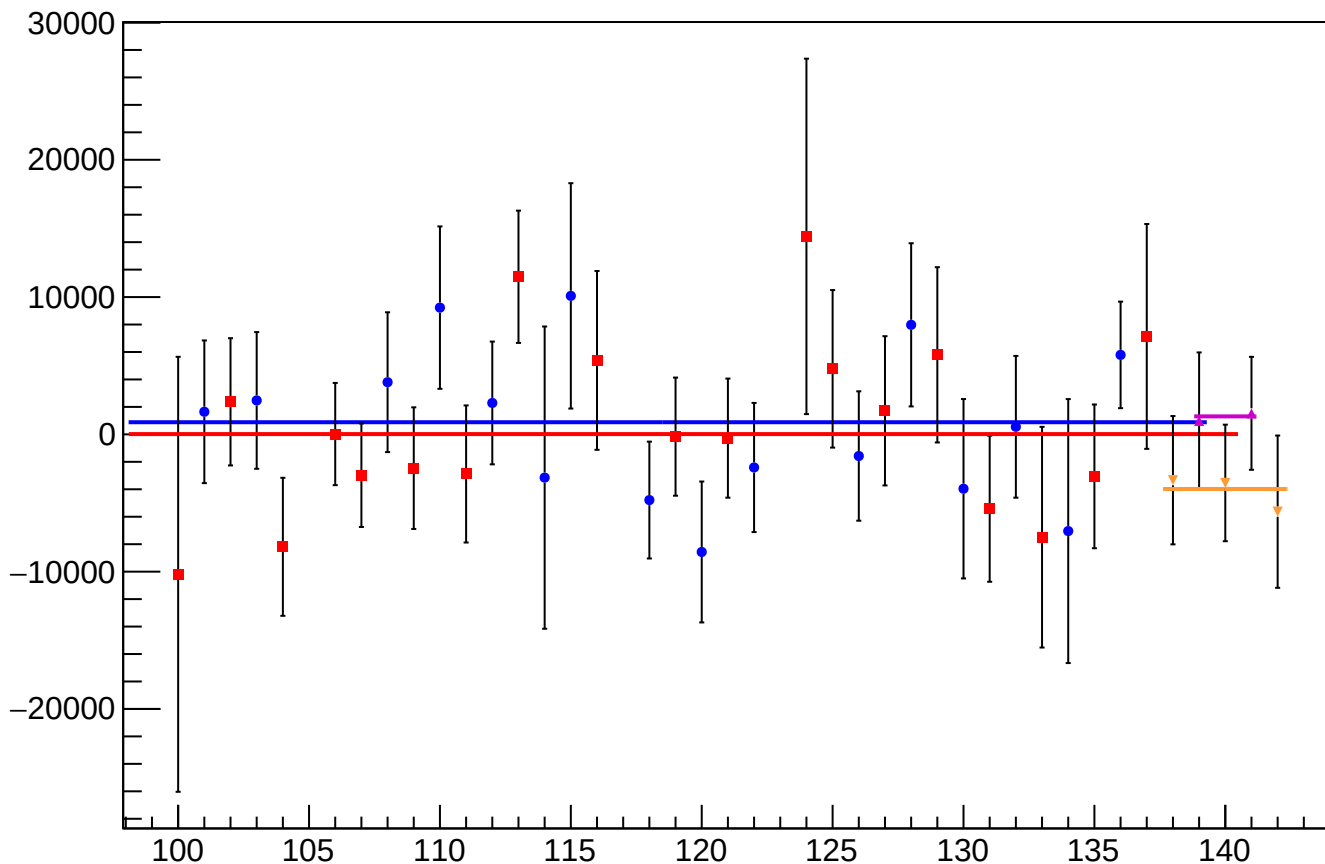
Right: 1300.891+/-0.245 χ^2/NDF : 723852.4/34

In: 1312.896+/-0.315 χ^2/NDF : 514670.6/17

Out: 1312.300+/-0.306 χ^2/NDF : 223540.7/21

All: 1312.590+/-0.219 χ^2/NDF : 738213.1/39

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.047 ± 1327.396 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -3978.505 ± 2733.718 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 20.677 ± 1200.012 $\chi^2/\text{NDF}: 16.8/18$

Left In: 1309.271 ± 3173.463 $\chi^2/\text{NDF}: 0.0/1$

Left: -1726.083 ± 2071.199 $\chi^2/\text{NDF}: 1.7/4$

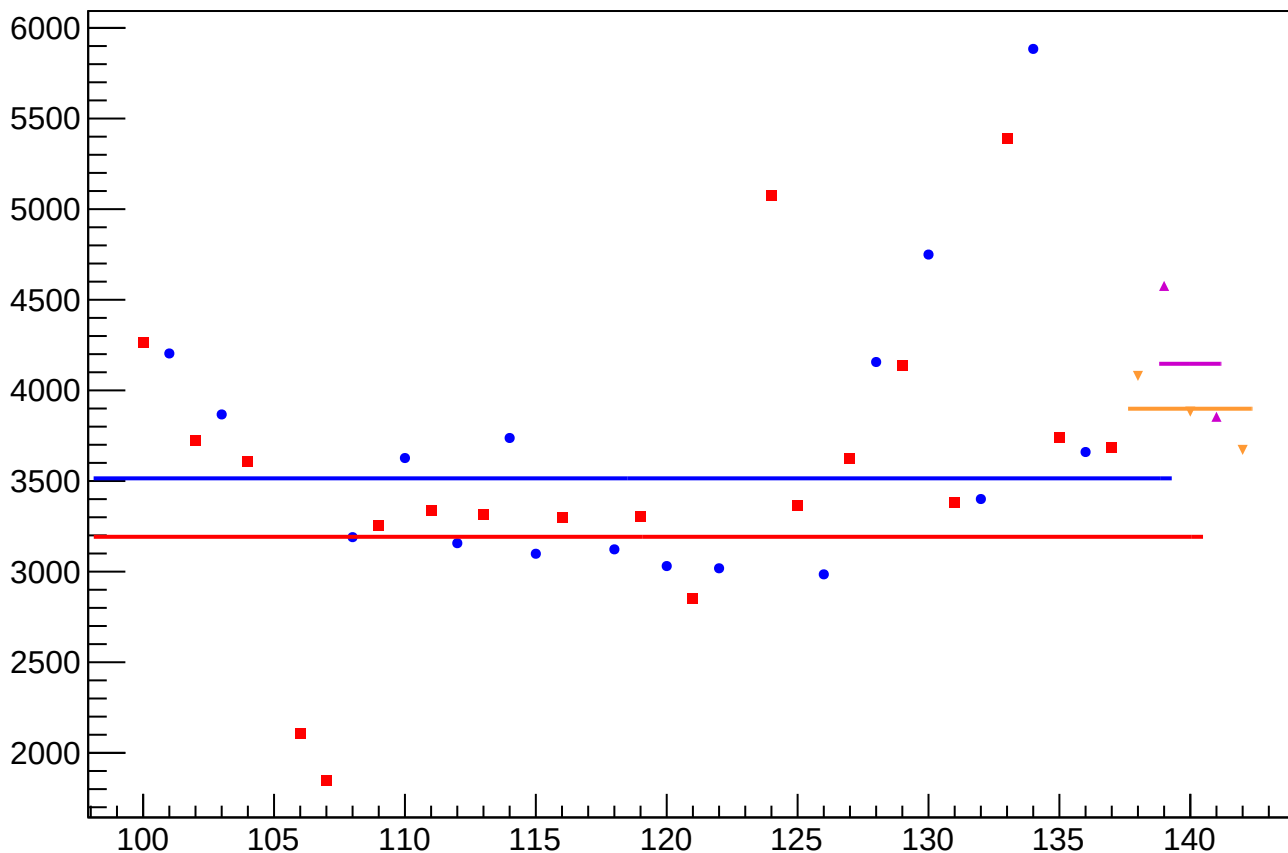
Right: 408.958 ± 890.174 $\chi^2/\text{NDF}: 31.2/34$

In: 947.365 ± 1224.586 $\chi^2/\text{NDF}: 14.1/17$

Out: -625.433 ± 1098.807 $\chi^2/\text{NDF}: 18.7/21$

All: 76.070 ± 817.838 $\chi^2/\text{NDF}: 33.8/39$

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.737+/-0.939 χ^2/NDF : 375082.8/15

Left Out: 3898.871+/-1.933 χ^2/NDF : 6386.6/2

Right Out: 3192.196+/-0.849 χ^2/NDF : 772497.9/18

Left In: 4146.807+/-2.244 χ^2/NDF : 24942.3/1

Left: 4004.484+/-1.465 χ^2/NDF : 38336.6/4

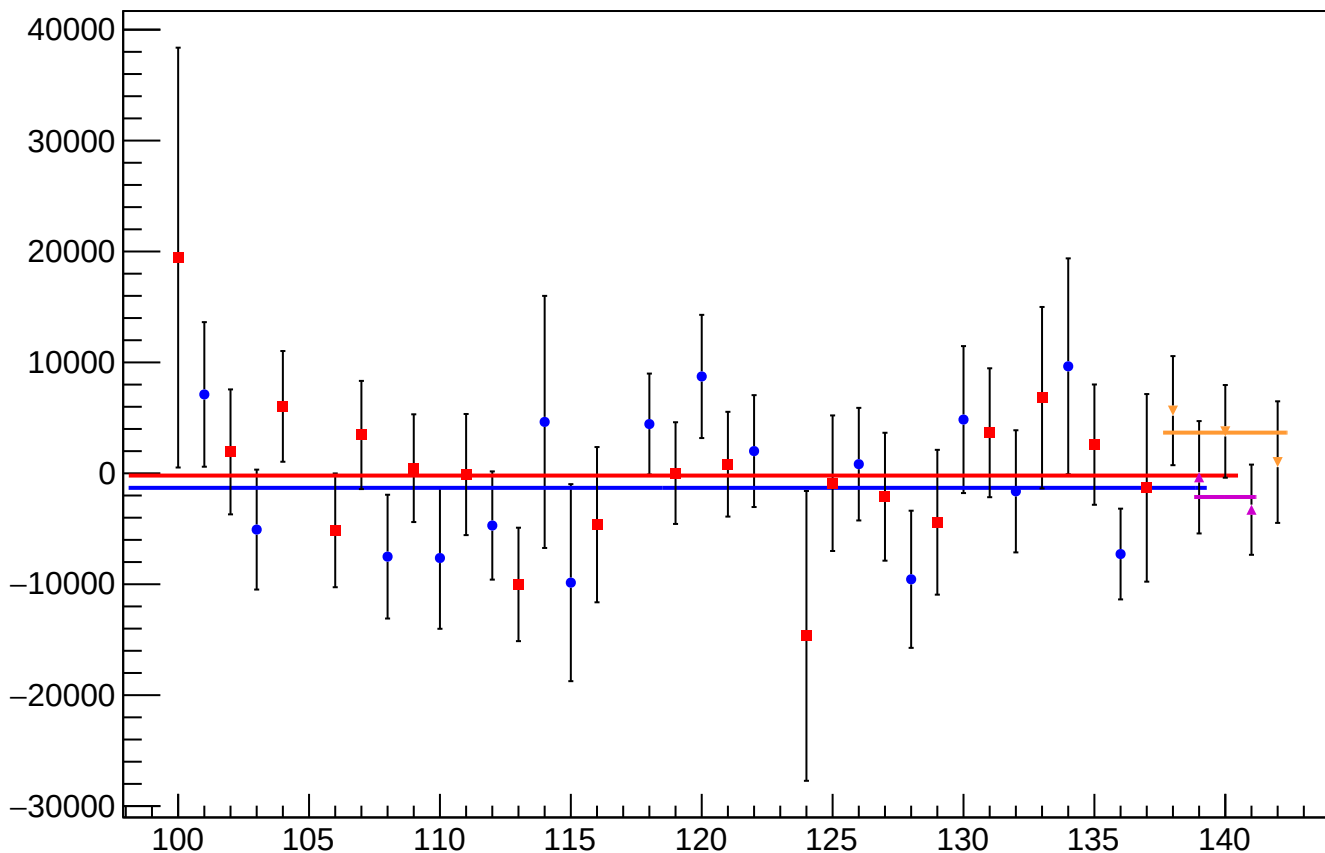
Right: 3337.251+/-0.629 χ^2/NDF : 1212560.4/34

In: 3608.855+/-0.866 χ^2/NDF : 467551.1/17

Out: 3306.367+/-0.777 χ^2/NDF : 890940.4/21

All: 3441.283+/-0.578 χ^2/NDF : 1426094.0/39

asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -1309.349+/-1431.624 χ^2/NDF : 17.6/15

Left Out: 3669.705+/-2753.396 χ^2/NDF : 0.4/2

Right Out: -201.593+/-1336.062 χ^2/NDF : 11.6/18

Left In: -2133.541+/-3171.289 χ^2/NDF : 0.2/1

Left: 1175.383+/-2079.106 χ^2/NDF : 2.5/4

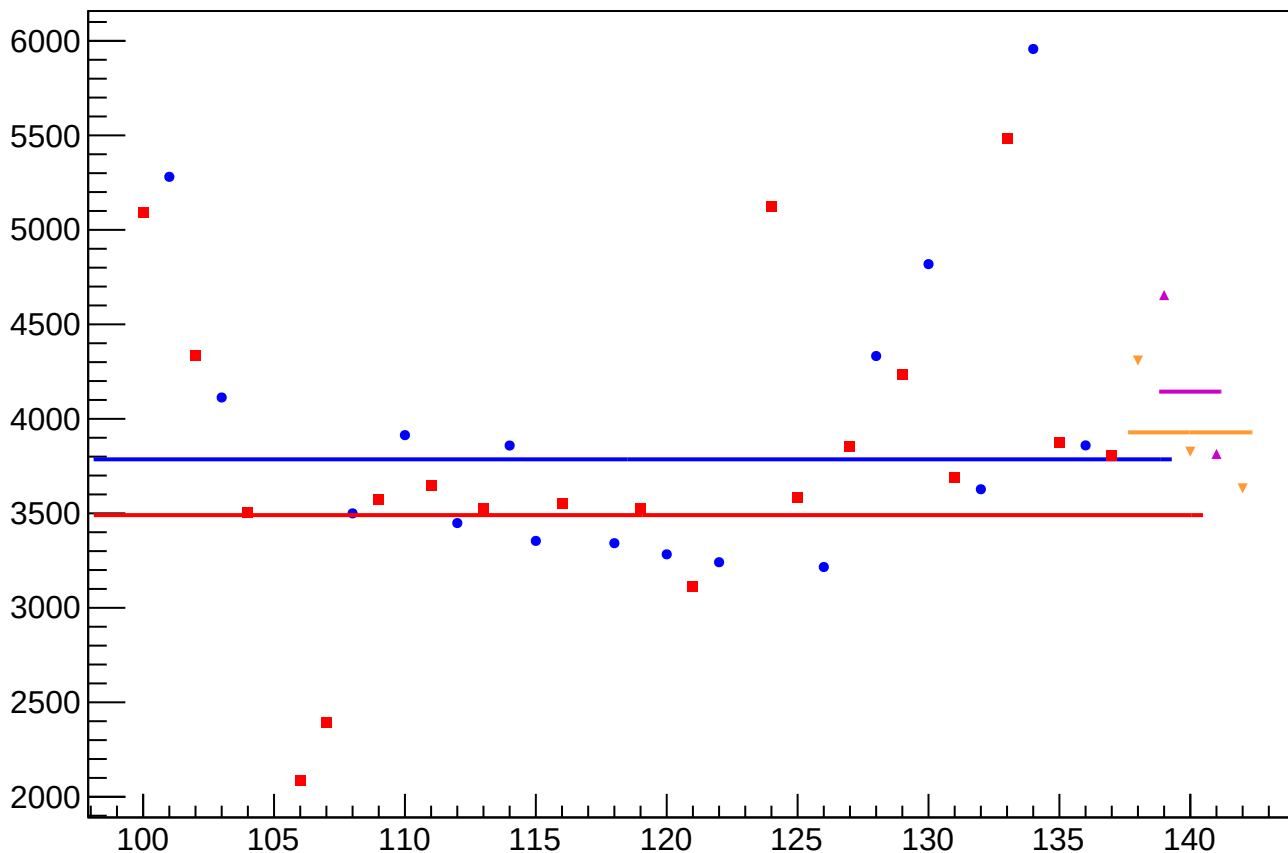
Right: -717.269+/-976.776 χ^2/NDF : 29.5/34

In: -1448.878+/-1304.828 χ^2/NDF : 17.8/17

Out: 536.216+/-1202.022 χ^2/NDF : 13.6/21

All: -375.059+/-884.072 χ^2/NDF : 32.7/39

asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 3785.774+/-1.012 χ^2/NDF : 382992.9/15

Left Out: 3928.391+/-1.947 χ^2/NDF :18979.5/2

Right Out: 3490.614+/-0.932 χ^2/NDF : 586715.1/18

Left In: 4143.971+/-2.242 χ^2/NDF :33477.9/1

Left: 4021.050+/-1.470 χ^2/NDF : 57727.2/4

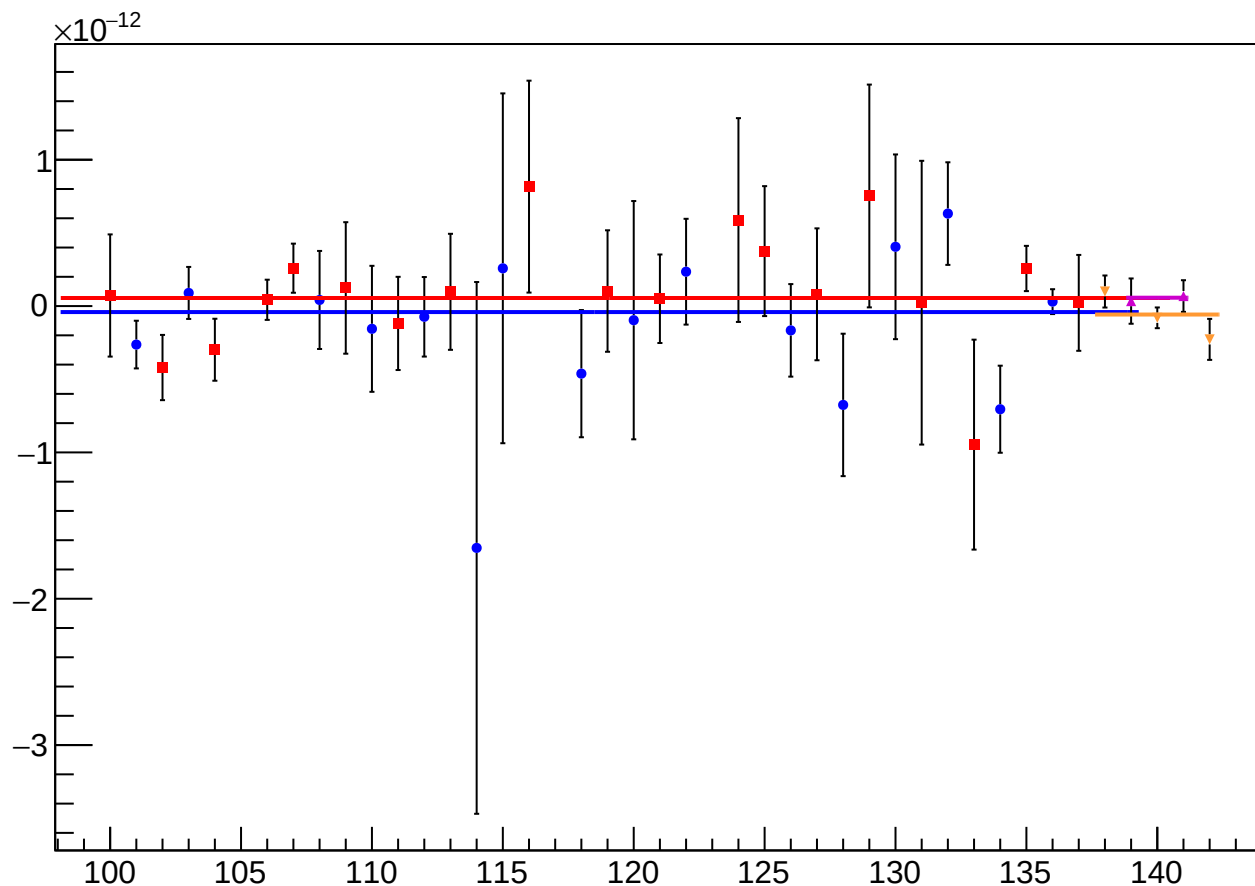
Right: 3626.002+/-0.686 χ^2/NDF : 1015727.1/34

In: 3846.413+/-0.923 χ^2/NDF :437666.8/17

Out: 3572.209+/-0.841 χ^2/NDF :646830.2/21

All: 3696.570+/-0.621 χ^2/NDF : 1132762.7/39

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 15.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 4.9/4

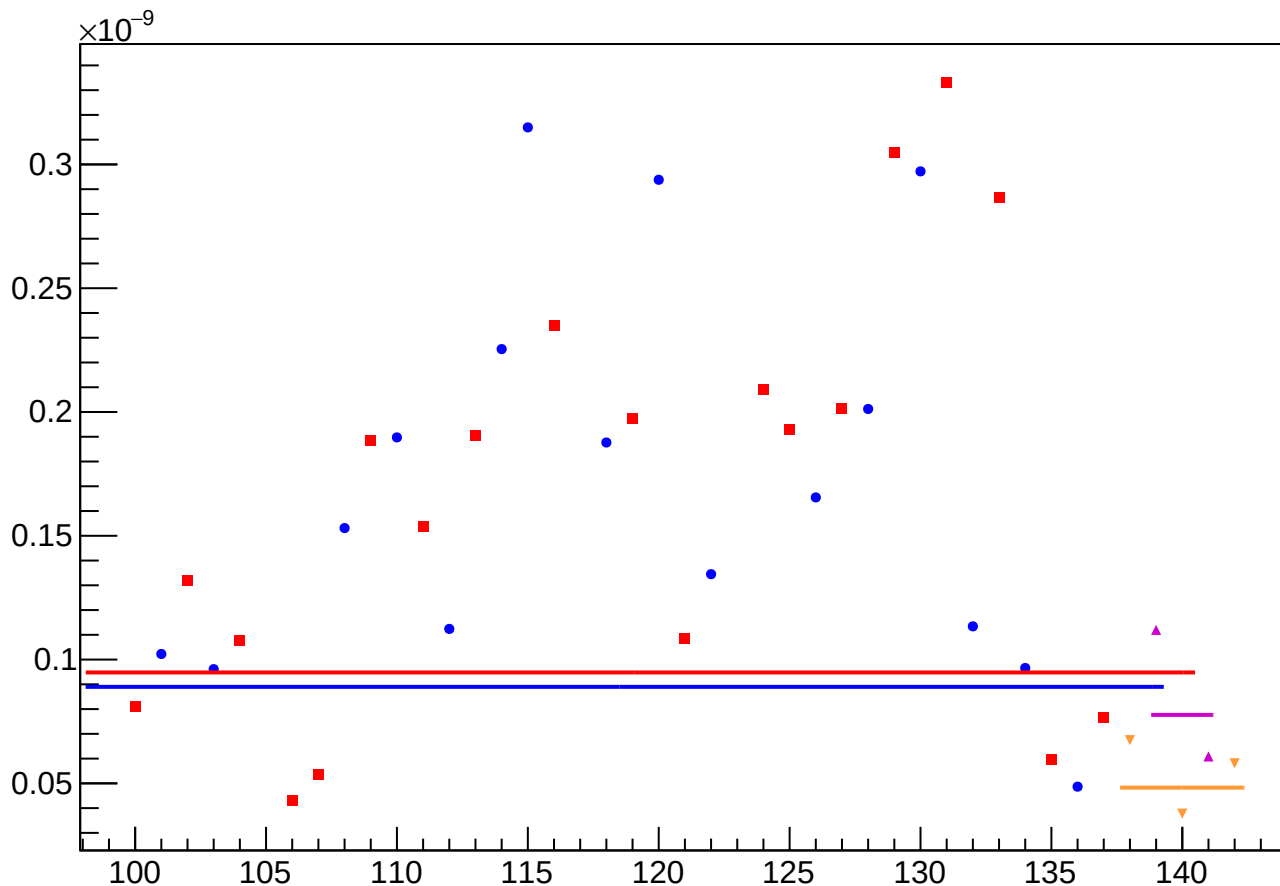
Right: 0.000+/-0.000 χ^2/NDF : 33.7/34

In: -0.000+/-0.000 χ^2/NDF : 17.5/17

Out: -0.000+/-0.000 χ^2/NDF : 21.3/21

All: -0.000+/-0.000 χ^2/NDF : 38.8/39

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 1460718.5/15

Left Out: 0.000+/-0.000

χ^2/NDF : 115302.1/2

Right Out: 0.000+/-0.000

χ^2/NDF : 1734601.4/18

Left In: 0.000+/-0.000

χ^2/NDF : 146700.5/1

Left: 0.000+/-0.000

χ^2/NDF : 420888.3/4

Right: 0.000+/-0.000

χ^2/NDF : 3204262.4/34

In: 0.000+/-0.000

χ^2/NDF : 1630065.3/17

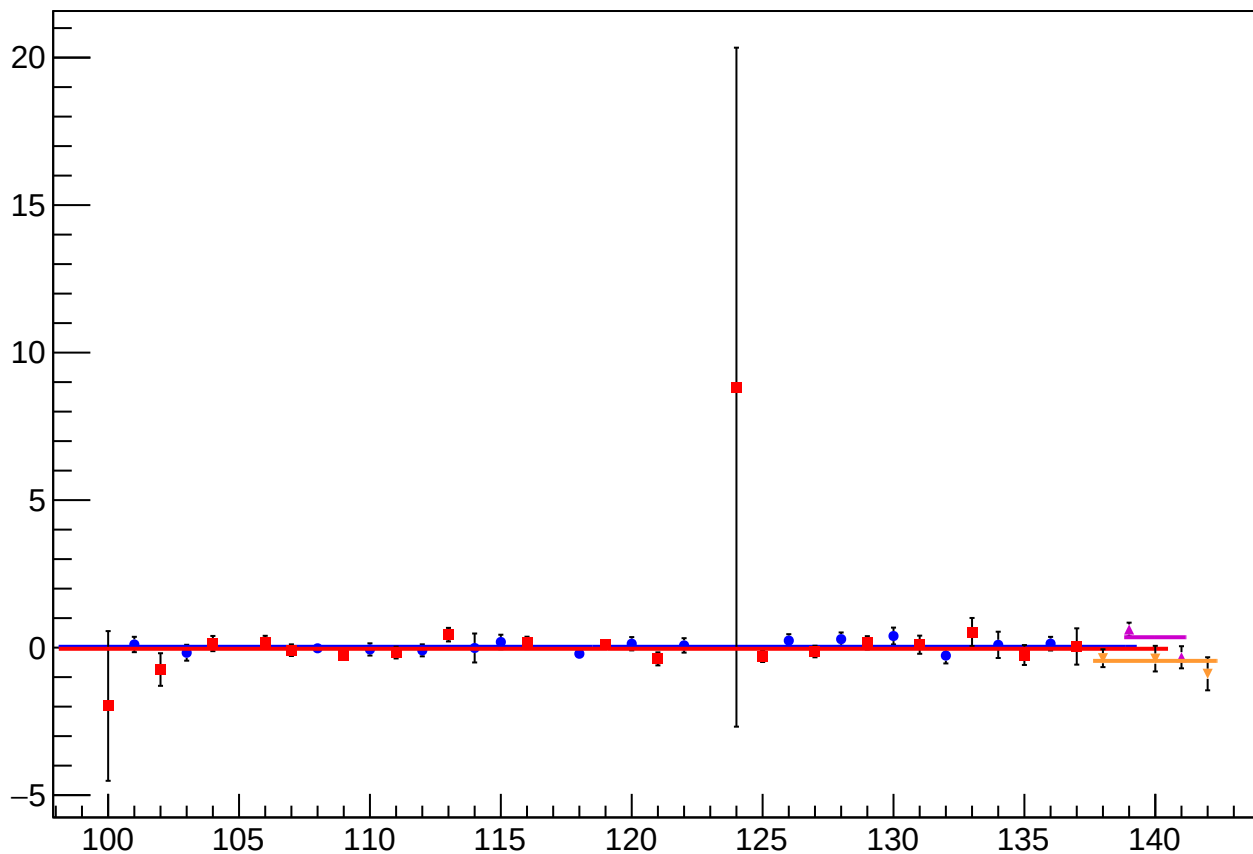
Out: 0.000+/-0.000

χ^2/NDF : 2460539.3/21

All: 0.000+/-0.000

χ^2/NDF : 4239383.6/39

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.058 χ^2/NDF : 9.4/15

Left Out: -0.449+/-0.227 χ^2/NDF : 0.7/2

Right Out: -0.039+/-0.055 χ^2/NDF : 20.0/18

Left In: 0.352+/-0.198 χ^2/NDF : 4.5/1

Left: 0.006+/-0.149 χ^2/NDF : 12.4/4

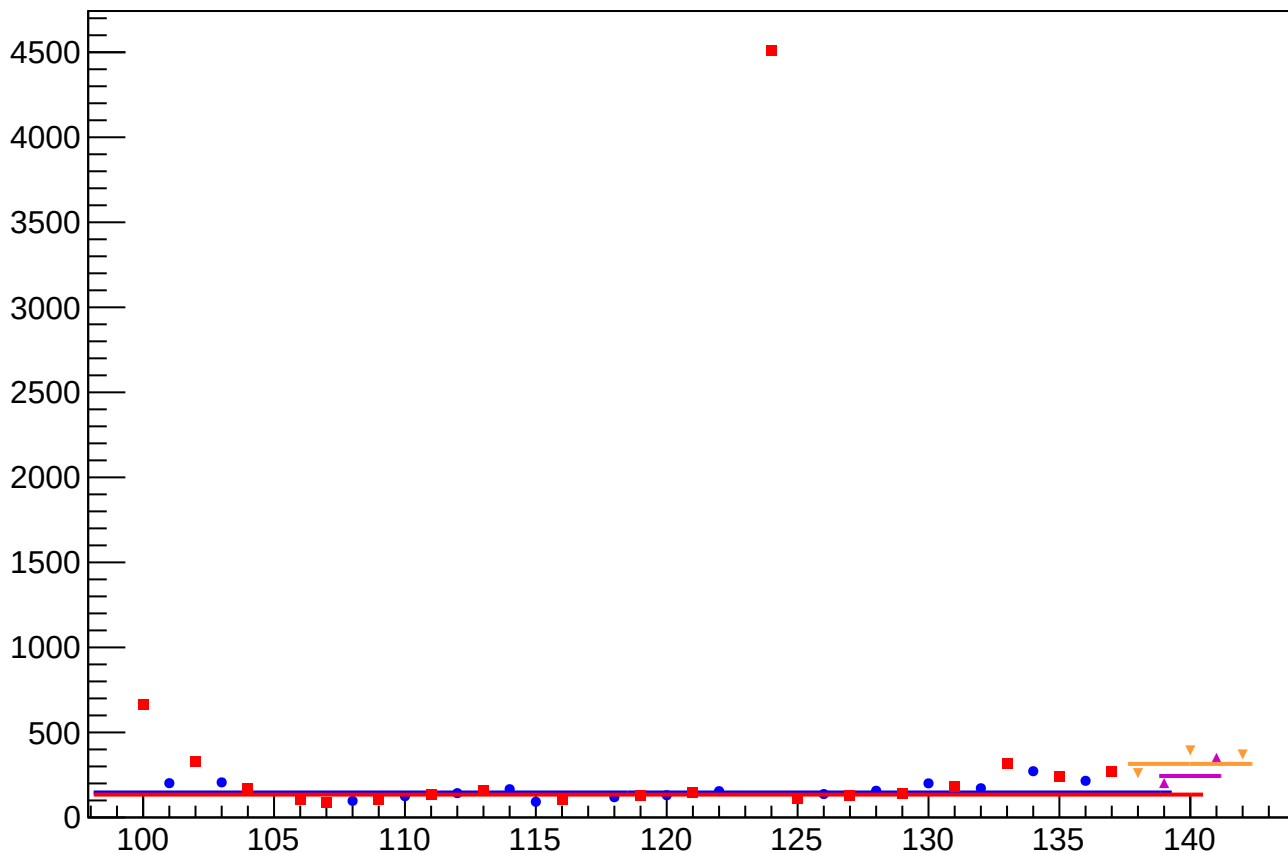
Right: -0.007+/-0.040 χ^2/NDF : 30.2/34

In: 0.053+/-0.055 χ^2/NDF : 16.5/17

Out: -0.062+/-0.053 χ^2/NDF : 23.8/21

All: -0.006+/-0.038 χ^2/NDF : 42.5/39

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 315.050+/-0.160 χ^2/NDF : 151154.2/2

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 243.847+/-0.140 χ^2/NDF : 226761.4/1

Left: 274.567+/-0.105 χ^2/NDF : 489872.1/4

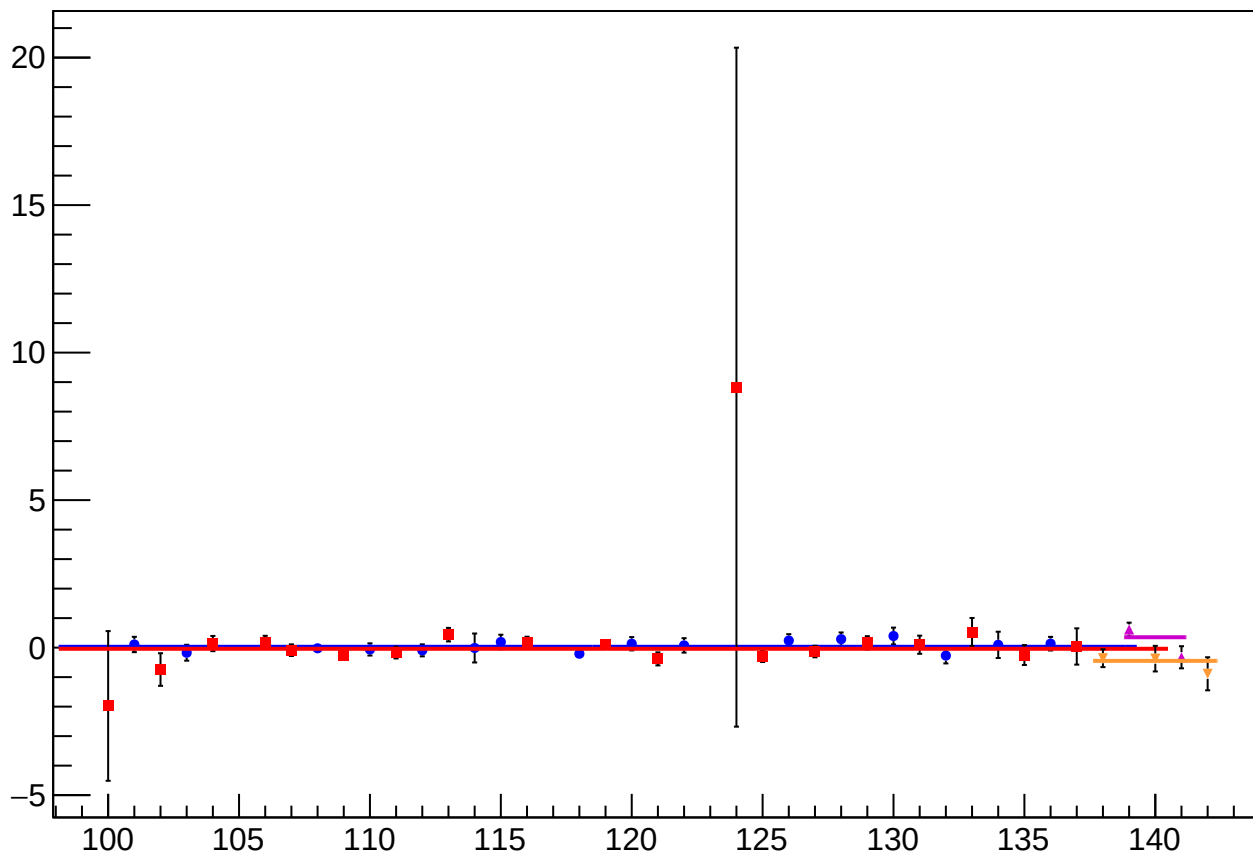
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 154.447+/-0.039 χ^2/NDF : 1669400.9/17

Out: 144.446+/-0.038 χ^2/NDF : 2953880.4/21

All: 149.250+/-0.027 χ^2/NDF : 4657162.7/39

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 $\chi^2/\text{NDF}: 9.4/15$

Left Out: -0.449 ± 0.227 $\chi^2/\text{NDF}: 0.7/2$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.352 ± 0.198 $\chi^2/\text{NDF}: 4.5/1$

Left: 0.006 ± 0.149 $\chi^2/\text{NDF}: 12.4/4$

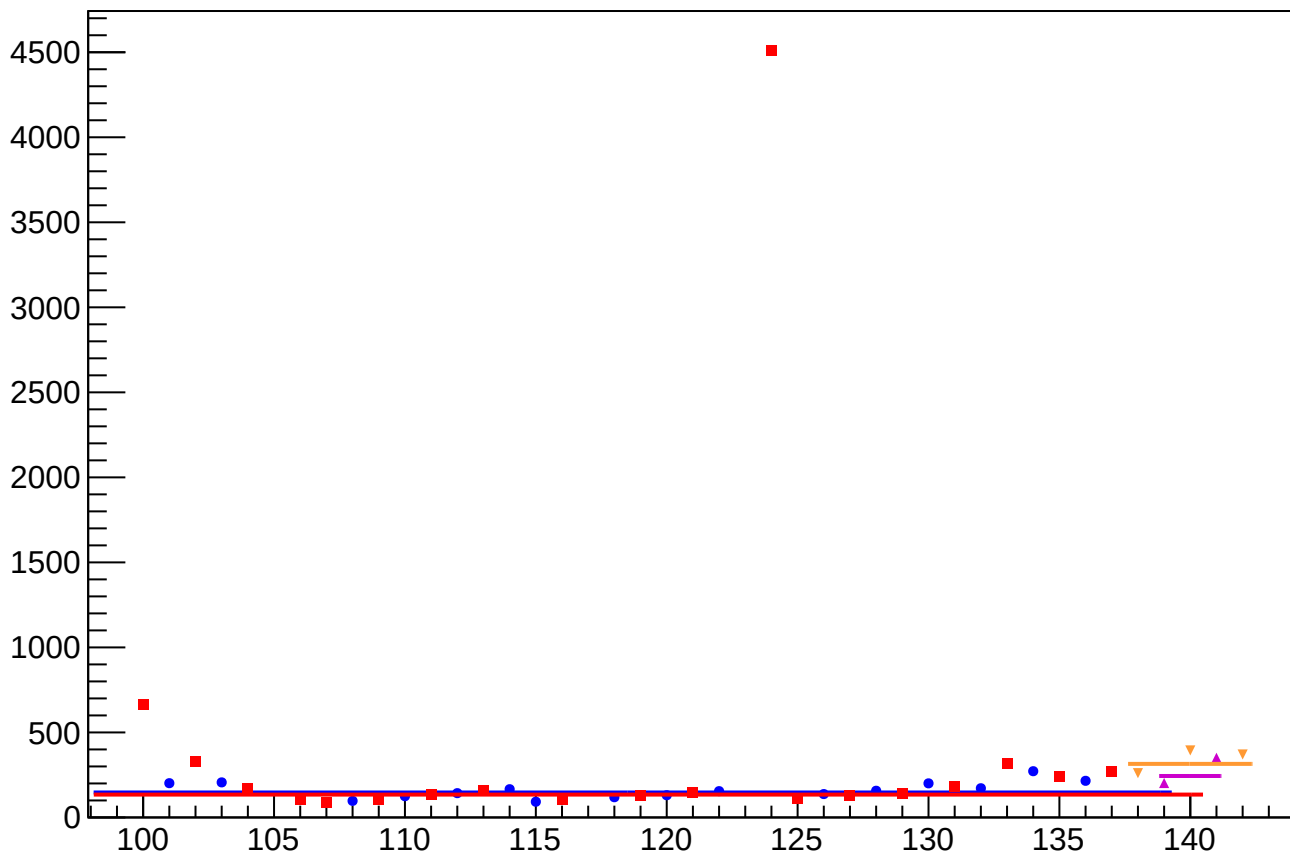
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.053 ± 0.055 $\chi^2/\text{NDF}: 16.5/17$

Out: -0.062 ± 0.053 $\chi^2/\text{NDF}: 23.8/21$

All: -0.006 ± 0.038 $\chi^2/\text{NDF}: 42.5/39$

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 315.050+/-0.160 χ^2/NDF :151154.2/2

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 243.847+/-0.140 χ^2/NDF :226761.4/1

Left: 274.567+/-0.105 χ^2/NDF : 489872.1/4

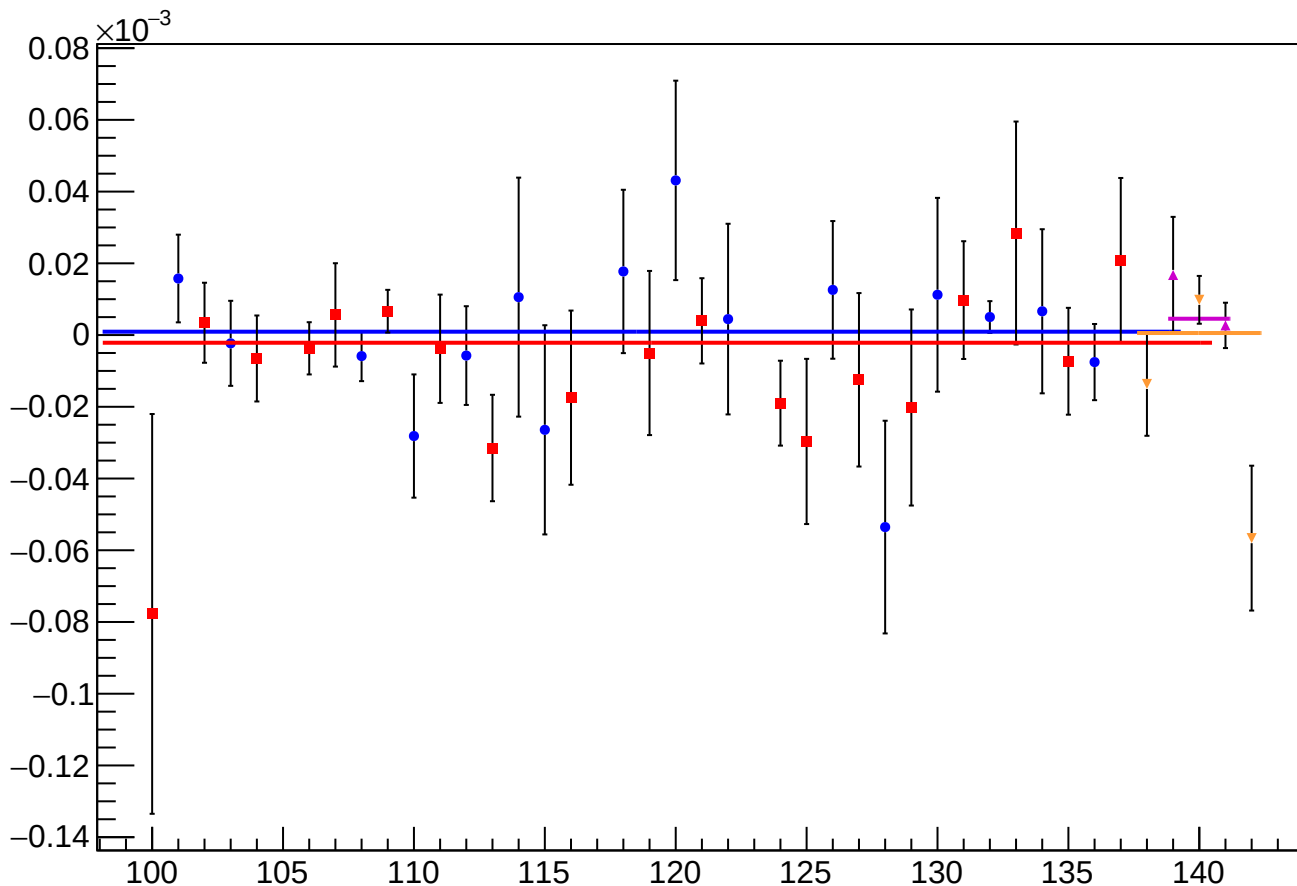
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 154.447+/-0.039 χ^2/NDF :1669400.9/17

Out: 144.446+/-0.038 χ^2/NDF :2953880.4/21

All: 149.250+/-0.027 χ^2/NDF : 4657162.7/39

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 10.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 16.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.7/1

Left: 0.000+/-0.000 χ^2/NDF : 11.8/4

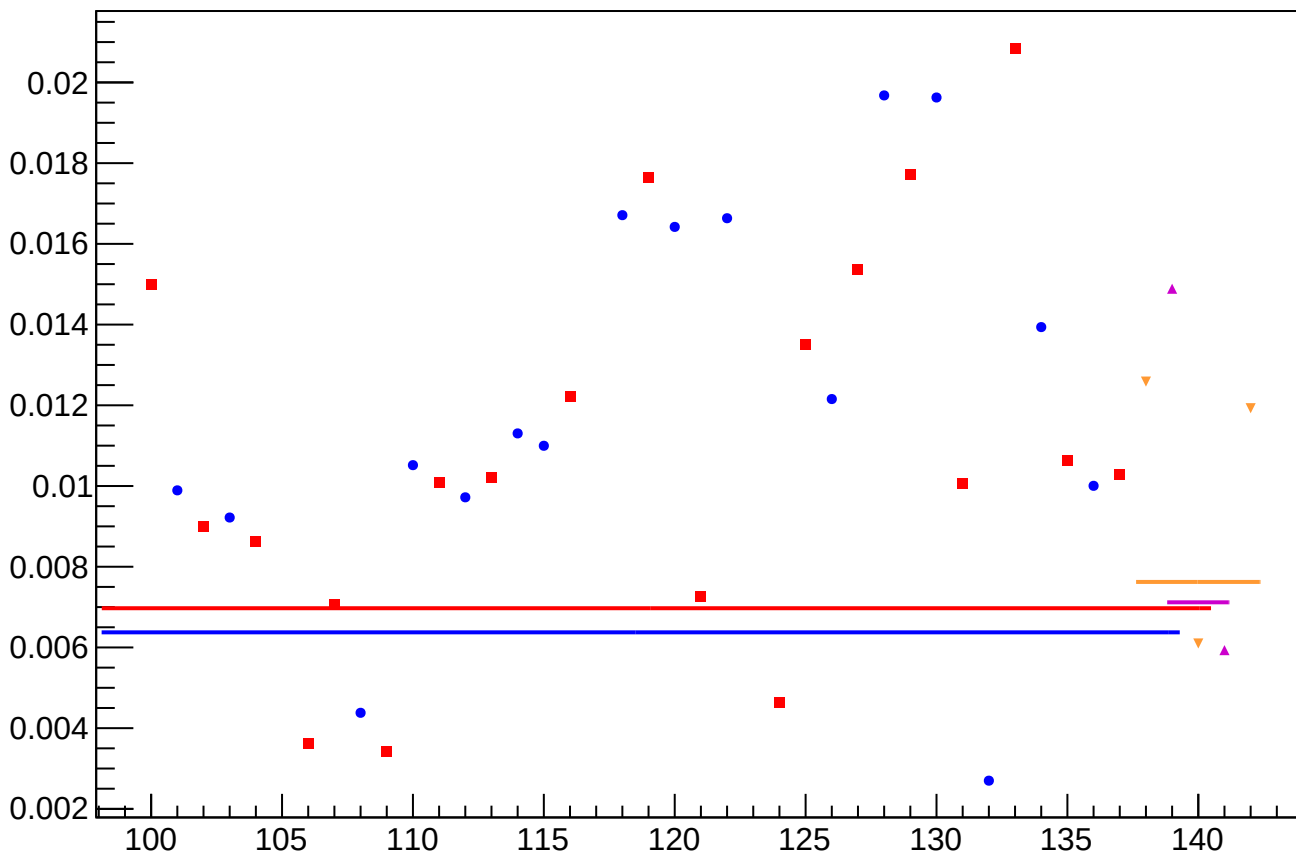
Right: -0.000+/-0.000 χ^2/NDF : 31.5/34

In: 0.000+/-0.000 χ^2/NDF : 15.8/17

Out: -0.000+/-0.000 χ^2/NDF : 27.1/21

All: 0.000+/-0.000 χ^2/NDF : 43.7/39

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 4639775.7/15

Left Out: 0.008+/-0.000 χ^2/NDF :431485.1/2

Right Out: 0.007+/-0.000 χ^2/NDF : 3409939.3/18

Left In: 0.007+/-0.000 χ^2/NDF :530472.1/1

Left: 0.007+/-0.000 χ^2/NDF : 969424.7/4

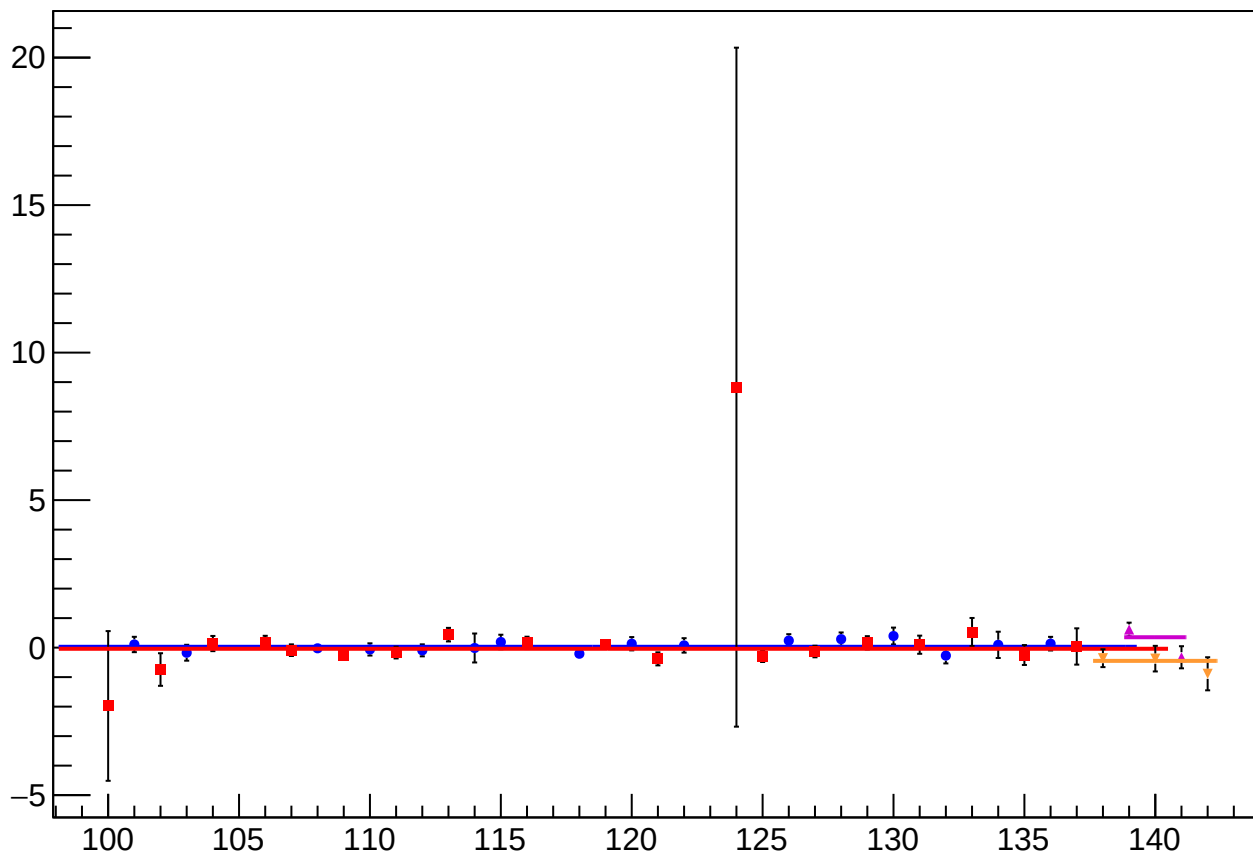
Right: 0.007+/-0.000 χ^2/NDF : 8090163.7/34

In: 0.007+/-0.000 χ^2/NDF :5195831.4/17

Out: 0.007+/-0.000 χ^2/NDF :3861313.6/21

All: 0.007+/-0.000 χ^2/NDF : 9106594.6/39

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.058 χ^2/NDF : 9.4/15

Left Out: -0.449+/-0.227 χ^2/NDF : 0.7/2

Right Out: -0.039+/-0.055 χ^2/NDF : 20.0/18

Left In: 0.352+/-0.198 χ^2/NDF : 4.5/1

Left: 0.006+/-0.149 χ^2/NDF : 12.4/4

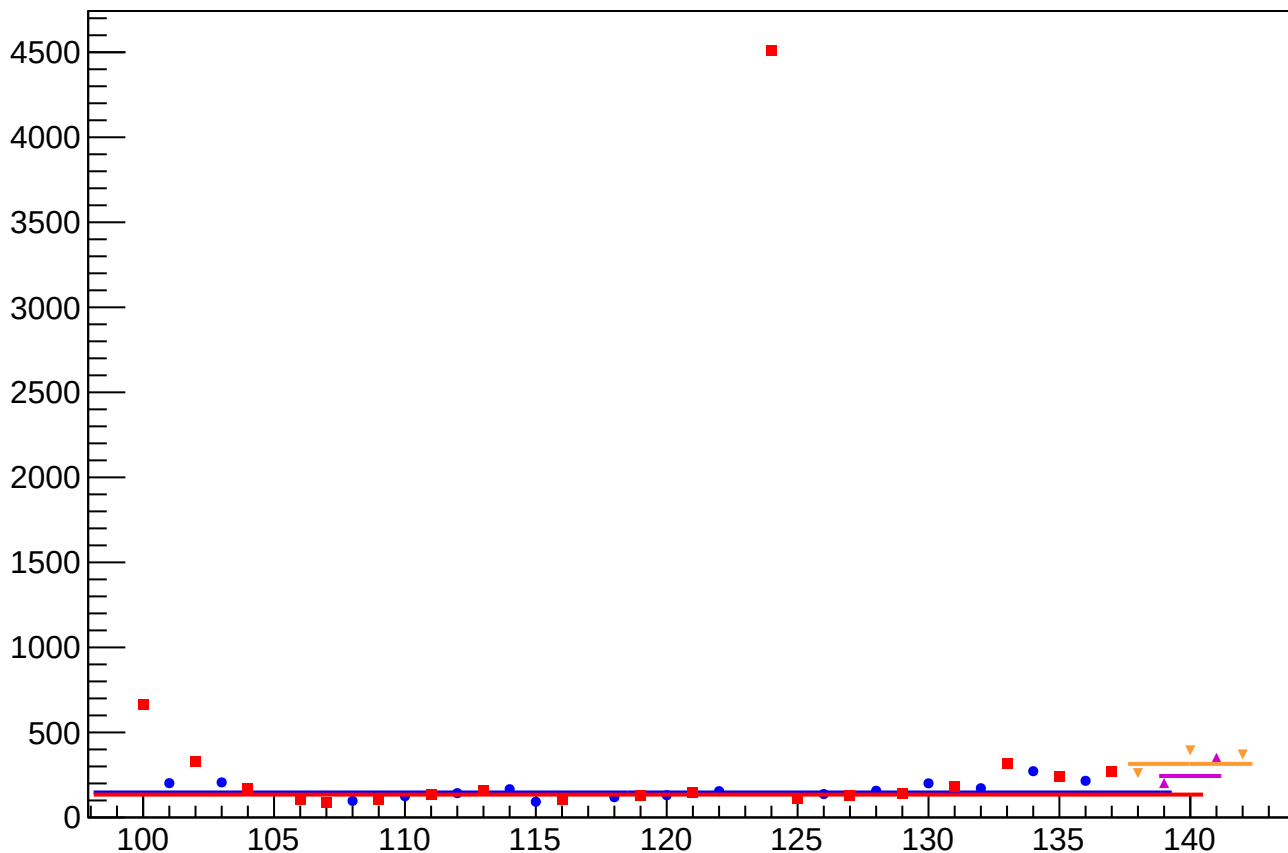
Right: -0.007+/-0.040 χ^2/NDF : 30.2/34

In: 0.053+/-0.055 χ^2/NDF : 16.5/17

Out: -0.062+/-0.053 χ^2/NDF : 23.8/21

All: -0.006+/-0.038 χ^2/NDF : 42.5/39

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998646.8/15

Left Out: 315.054+/-0.160 χ^2/NDF :151150.3/2

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 243.852+/-0.140 χ^2/NDF :226749.0/1

Left: 274.572+/-0.105 χ^2/NDF : 489850.5/4

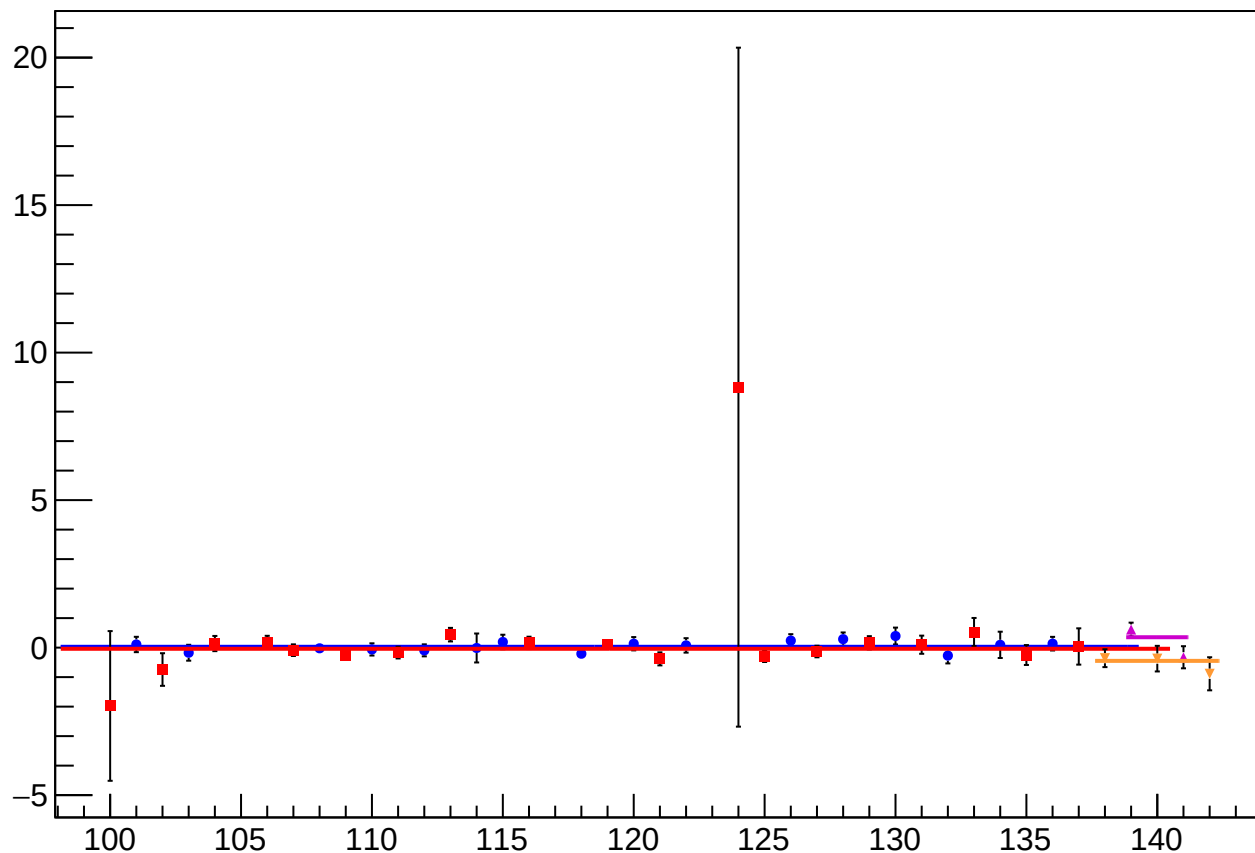
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 154.447+/-0.039 χ^2/NDF :1669358.5/17

Out: 144.448+/-0.038 χ^2/NDF :2953811.0/21

All: 149.250+/-0.027 χ^2/NDF : 4657041.9/39

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.449 $\pm$ 0.227 χ^2 /NDF:0.7/2

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.352 $\pm$ 0.198 χ^2 /NDF:4.5/1

Left: 0.006 $\pm$ 0.149 χ^2 /NDF: 12.4/4

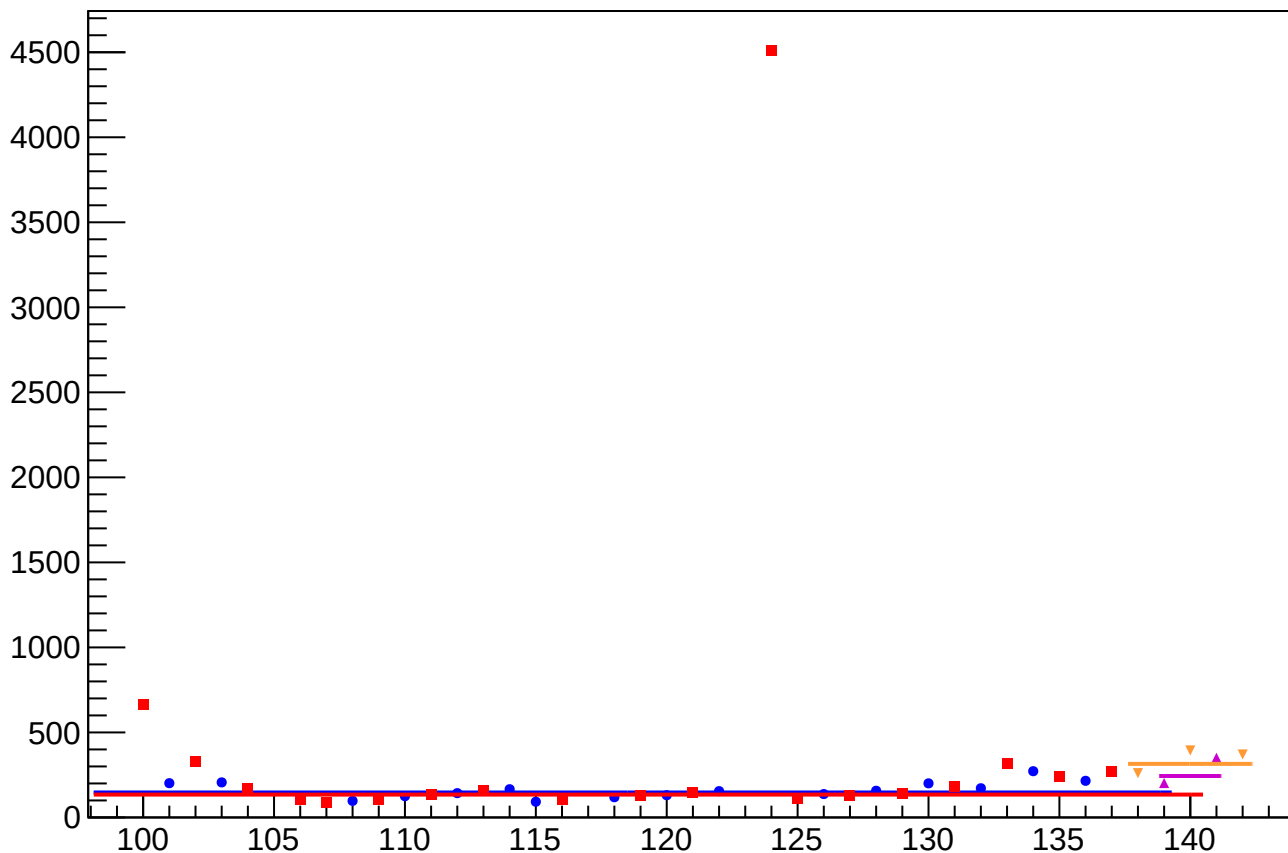
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.053 $\pm$ 0.055 χ^2 /NDF:16.5/17

Out: -0.062 $\pm$ 0.053 χ^2 /NDF:23.8/21

All: -0.006 $\pm$ 0.038 χ^2 /NDF: 42.5/39

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998646.8/15

Left Out: 315.054+/-0.160 χ^2/NDF :151150.3/2

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 243.852+/-0.140 χ^2/NDF :226749.0/1

Left: 274.572+/-0.105 χ^2/NDF : 489850.5/4

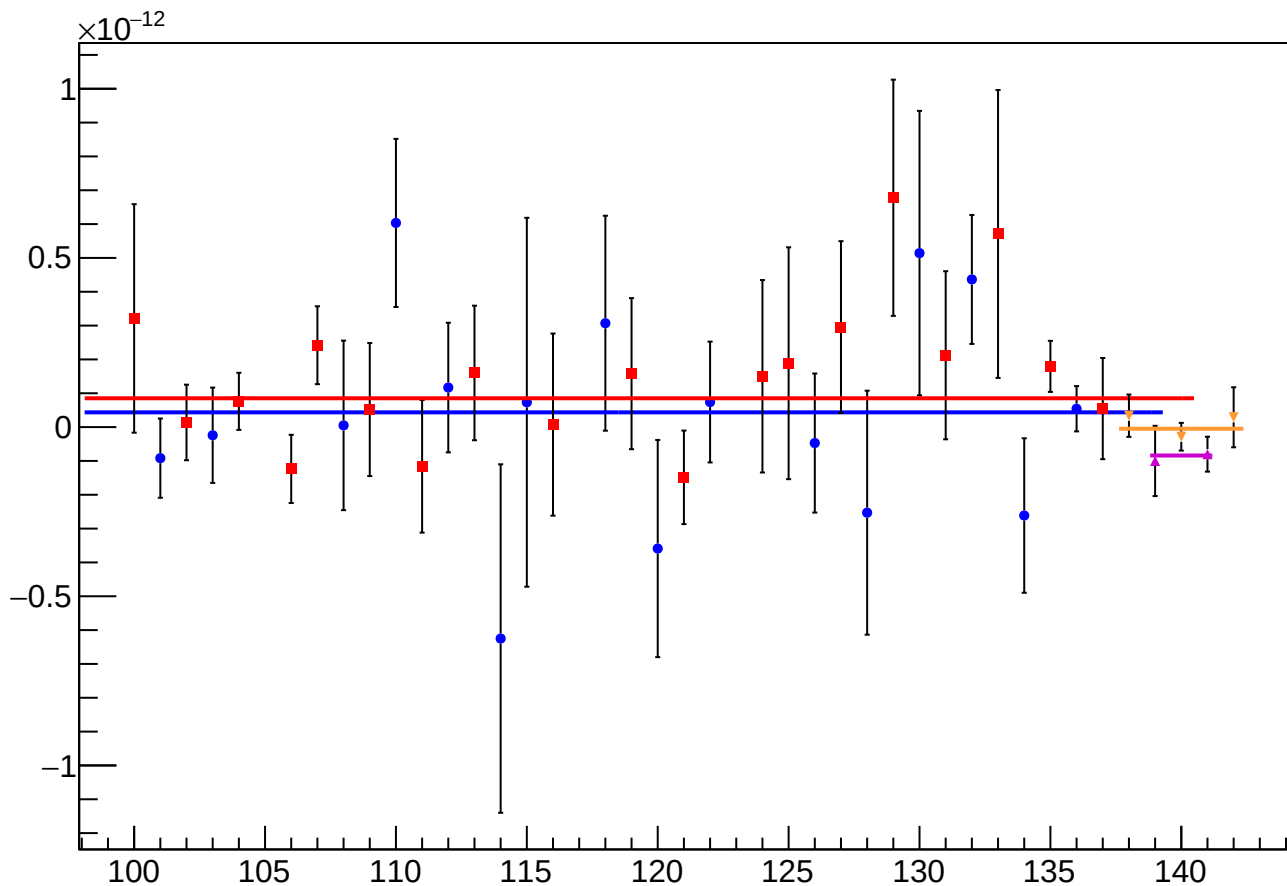
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 154.447+/-0.039 χ^2/NDF :1669358.5/17

Out: 144.448+/-0.038 χ^2/NDF :2953811.0/21

All: 149.250+/-0.027 χ^2/NDF : 4657041.9/39

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 2.9/4

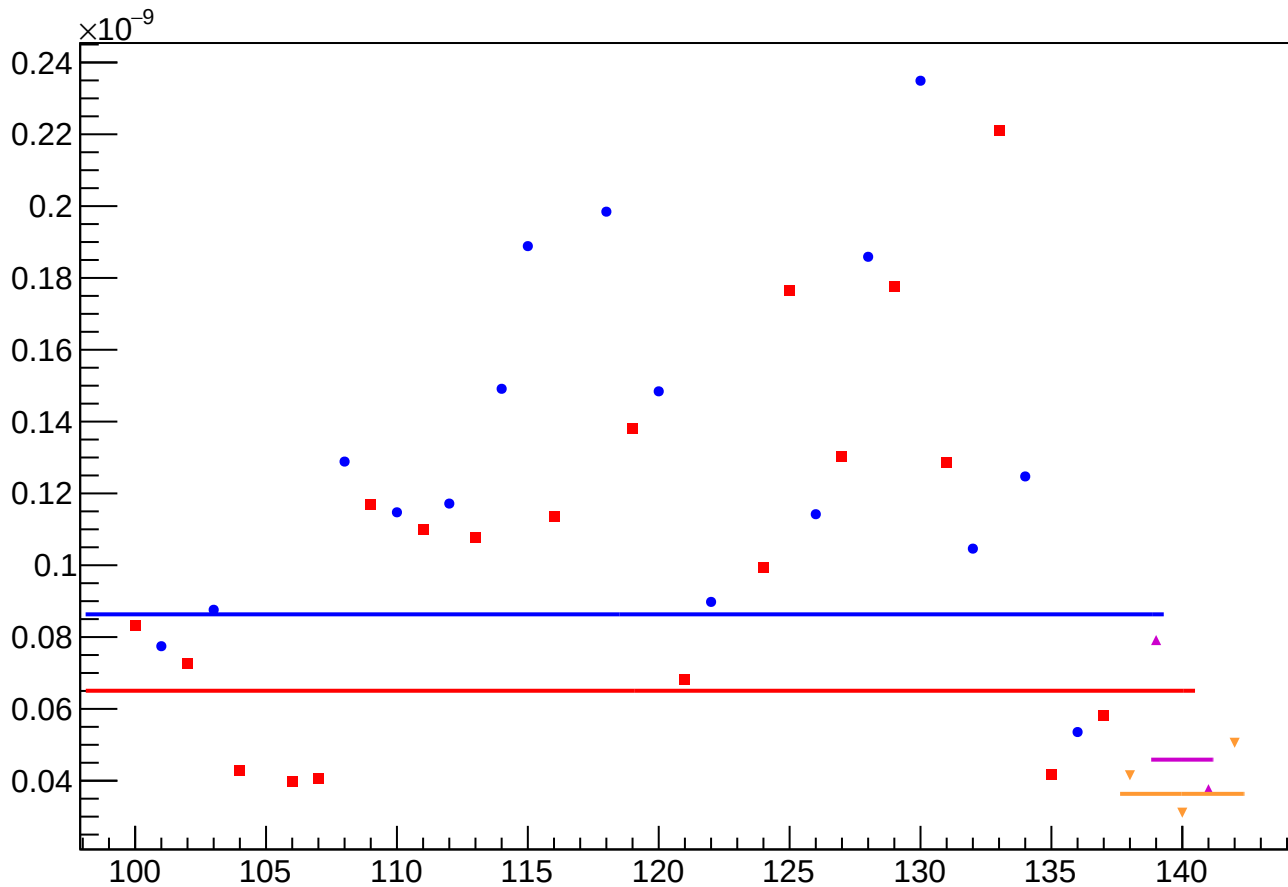
Right: 0.000+/-0.000 χ^2/NDF : 37.8/34

In: -0.000+/-0.000 χ^2/NDF : 23.1/17

Out: 0.000+/-0.000 χ^2/NDF : 22.8/21

All: 0.000+/-0.000 χ^2/NDF : 47.7/39

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1565662.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 97819.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2158861.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 256625.8/1

Left: 0.000+/-0.000 χ^2/NDF : 411929.0/4

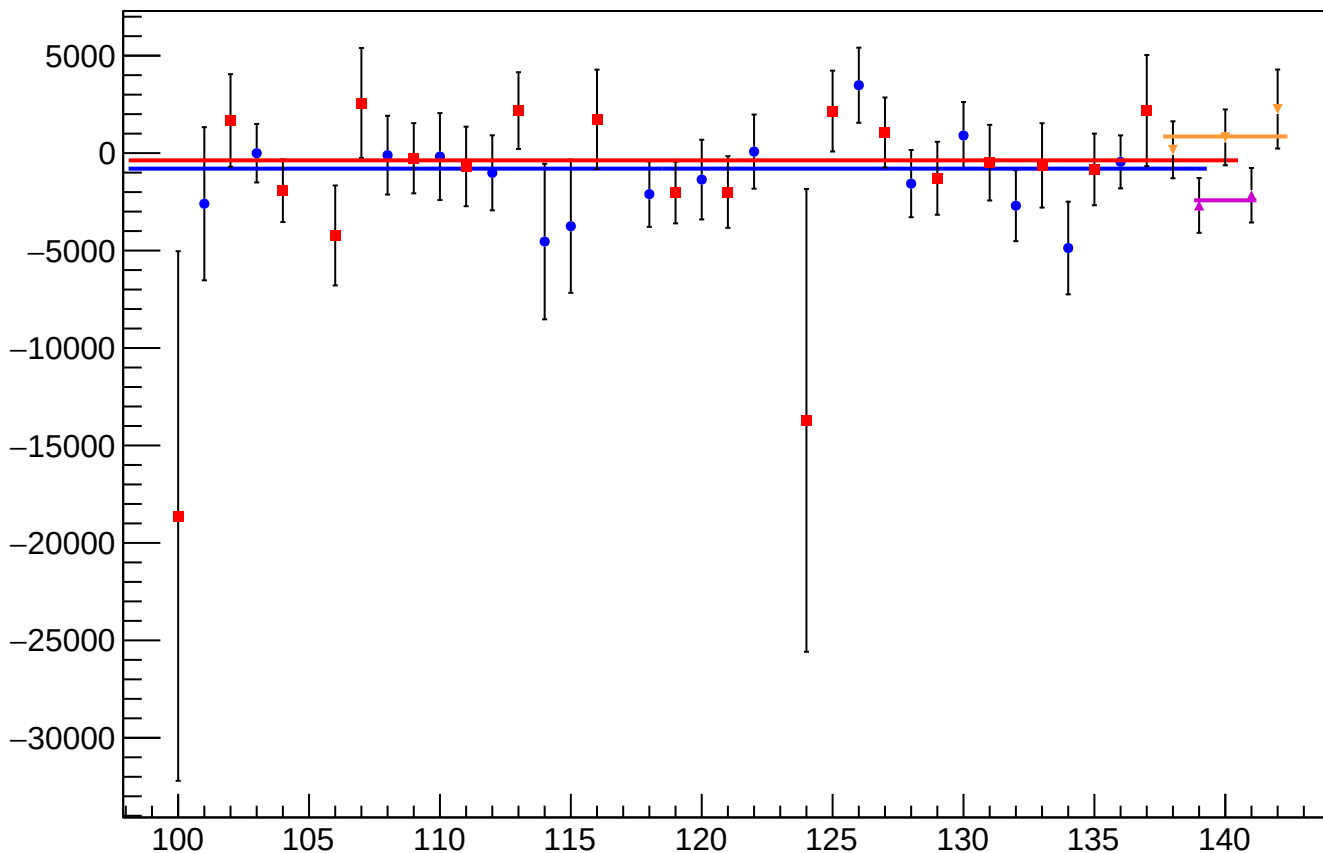
Right: 0.000+/-0.000 χ^2/NDF : 4026528.8/34

In: 0.000+/-0.000 χ^2/NDF : 2649362.1/17

Out: 0.000+/-0.000 χ^2/NDF : 3008059.1/21

All: 0.000+/-0.000 χ^2/NDF : 6078447.6/39

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -797.285 ± 487.453 χ^2/NDF : 13.4/15

Left Out: 854.677 ± 913.422 χ^2/NDF : 0.7/2

Right Out: -370.010 ± 485.826 χ^2/NDF : 15.6/18

Left In: -2421.580 ± 991.779 χ^2/NDF : 0.1/1

Left: -648.934 ± 671.883 χ^2/NDF : 6.7/4

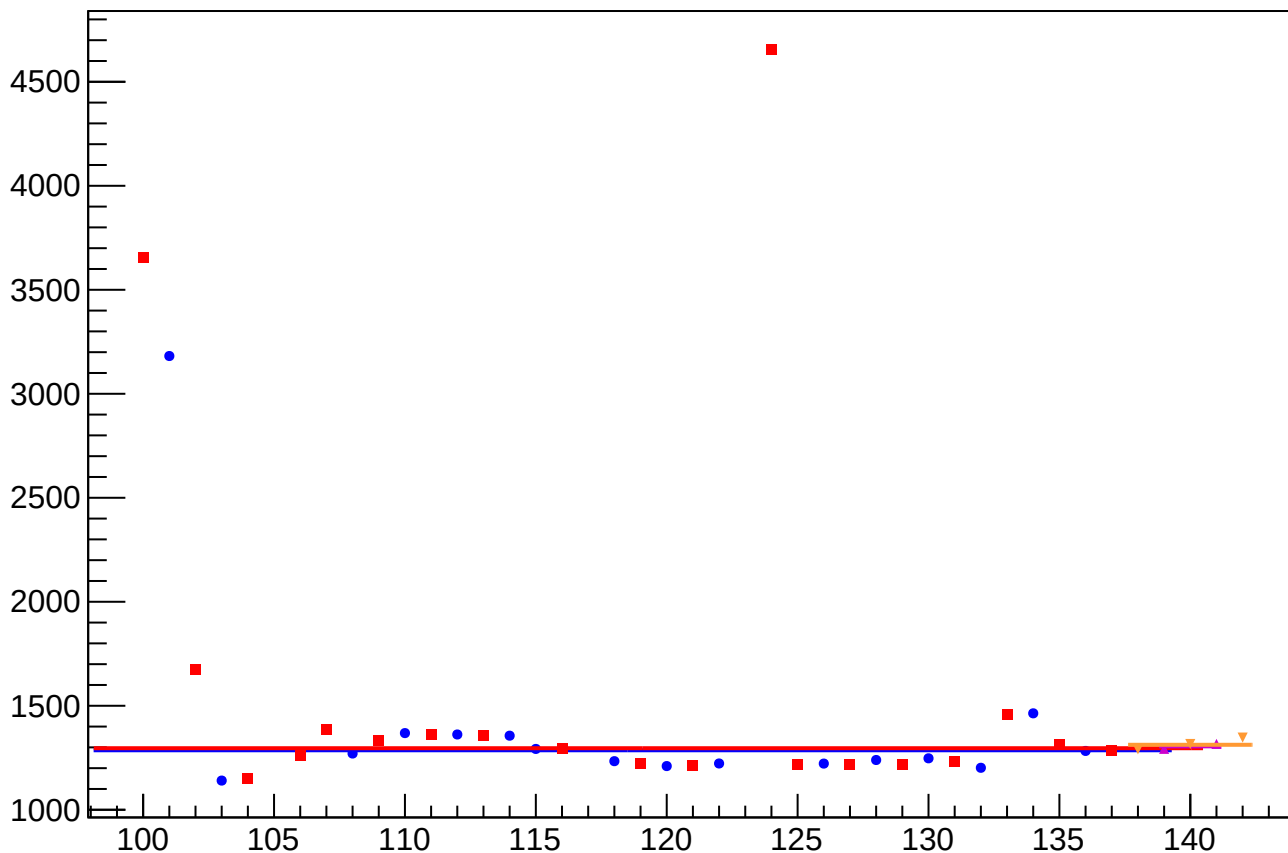
Right: -582.933 ± 344.105 χ^2/NDF : 29.4/34

In: -1113.317 ± 437.470 χ^2/NDF : 15.6/17

Out: -99.955 ± 428.929 χ^2/NDF : 17.7/21

All: -596.648 ± 306.274 χ^2/NDF : 36.1/39

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1286.097 $\pm$ 0.345 χ^2 /NDF: 518126.9/15

Left Out: 1312.398 $\pm$ 0.646 χ^2 /NDF:1047.2/2

Right Out: 1295.943 $\pm$ 0.344 χ^2 /NDF: 328069.9/18

Left In: 1304.917 $\pm$ 0.701 χ^2 /NDF:288.4/1

Left: 1308.965 $\pm$ 0.475 χ^2 /NDF: 1397.2/4

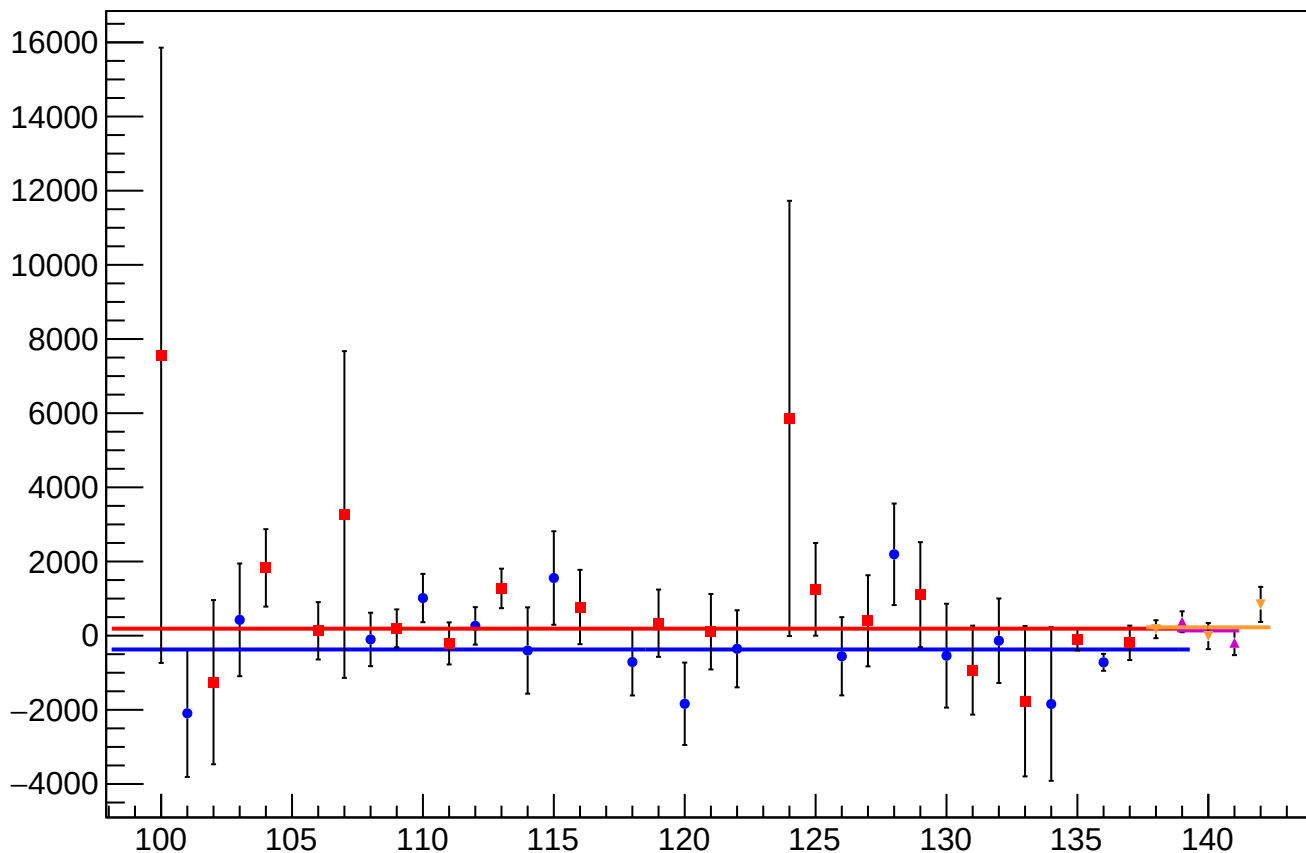
Right: 1291.036 $\pm$ 0.243 χ^2 /NDF: 846606.2/34

In: 1289.759 $\pm$ 0.309 χ^2 /NDF:518995.4/17

Out: 1299.571 $\pm$ 0.303 χ^2 /NDF:329623.1/21

All: 1294.762 $\pm$ 0.217 χ^2 /NDF: 849131.5/39

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -372.325+/-168.204 χ^2/NDF : 18.2/15

Left Out: 224.797+/-183.691 χ^2/NDF : 2.2/2

Right Out: 188.945+/-169.575 χ^2/NDF : 14.6/18

Left In: 140.955+/-215.928 χ^2/NDF : 1.7/1

Left: 189.596+/-139.913 χ^2/NDF : 3.9/4

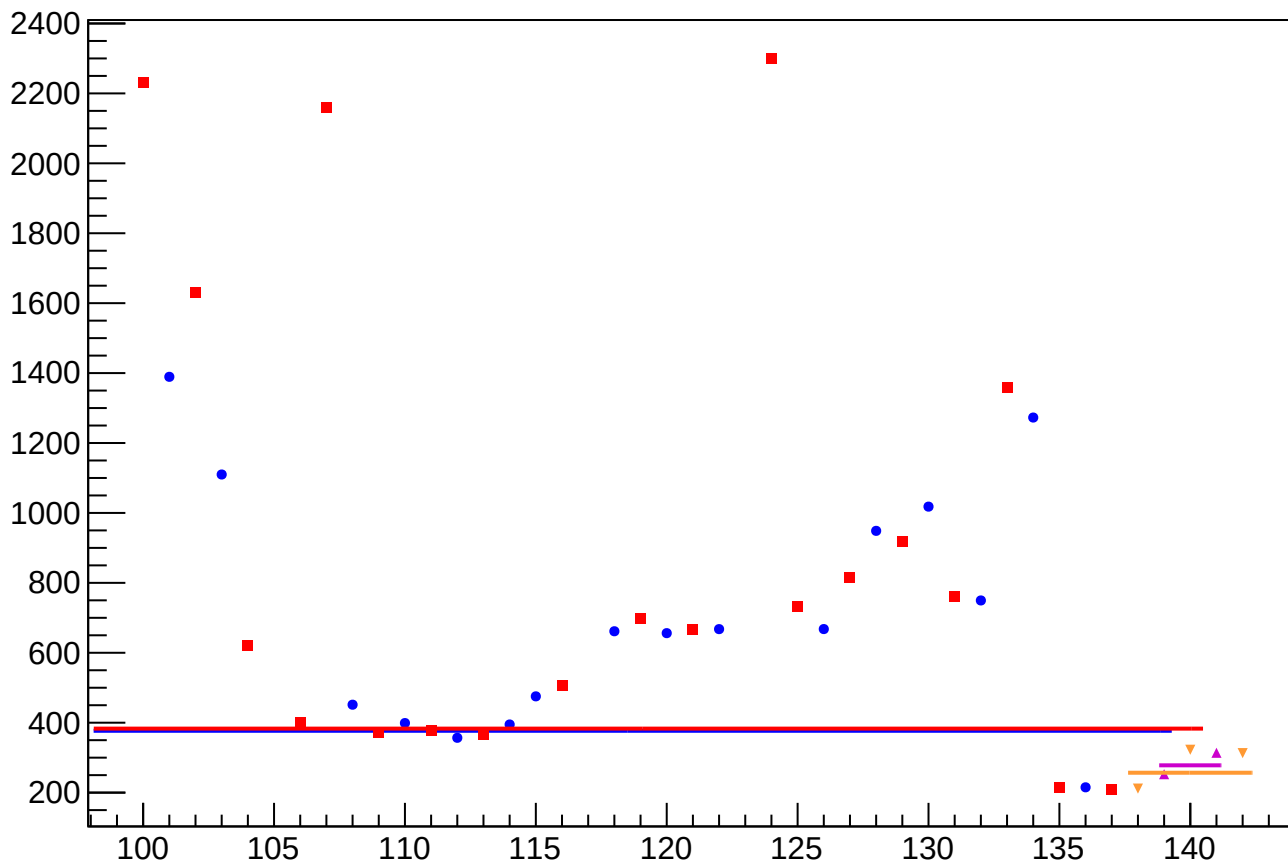
Right: -93.969+/-119.420 χ^2/NDF : 38.3/34

In: -178.486+/-132.695 χ^2/NDF : 23.3/17

Out: 205.441+/-124.600 χ^2/NDF : 16.9/21

All: 25.545+/-90.832 χ^2/NDF : 44.6/39

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 376.893+/-0.119 χ^2/NDF : 4190194.7/15

Left Out: 256.886+/-0.130 χ^2/NDF : 168030.9/2

Right Out: 383.074+/-0.120 χ^2/NDF : 4054121.5/18

Left In: 278.092+/-0.153 χ^2/NDF : 39183.4/1

Left: 265.789+/-0.099 χ^2/NDF : 218404.7/4

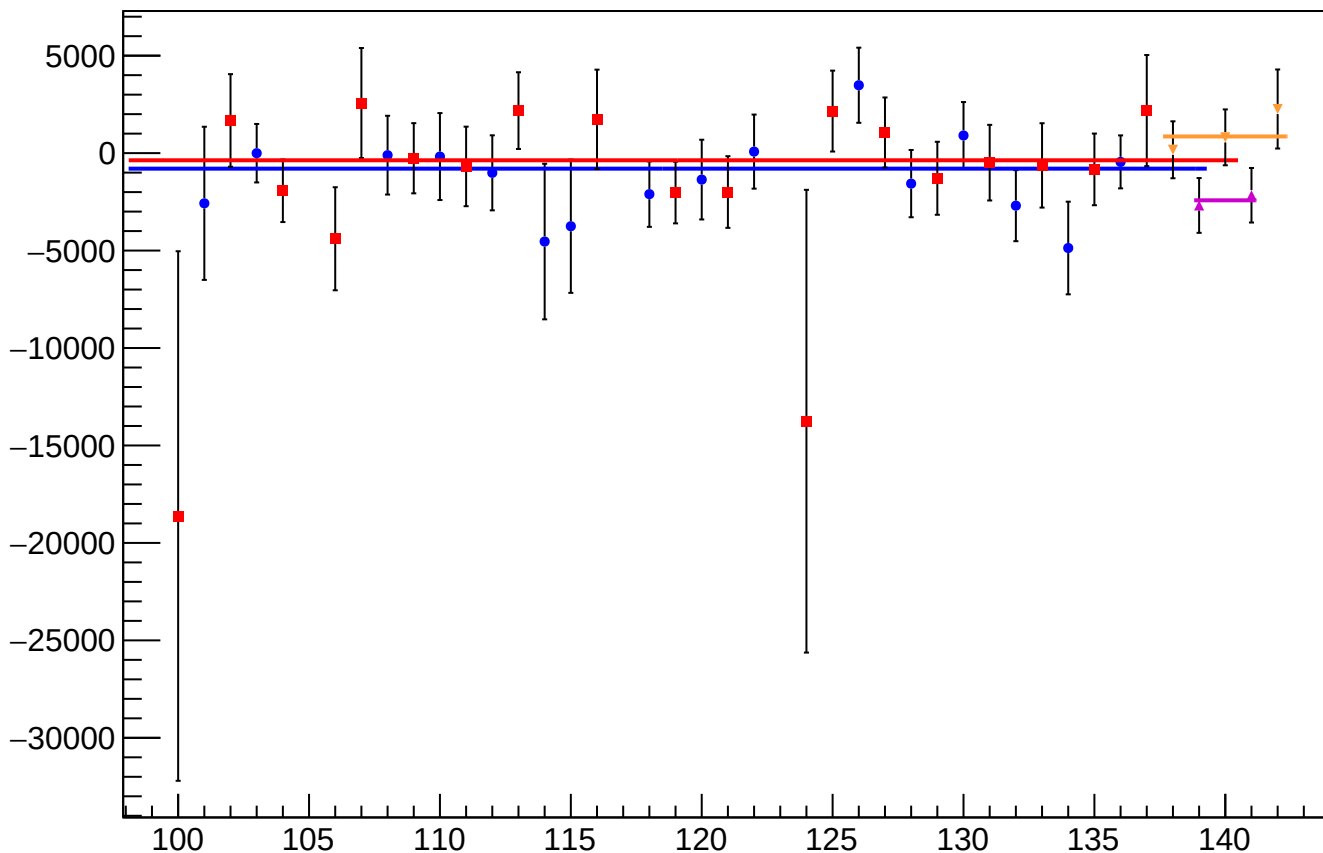
Right: 379.958+/-0.084 χ^2/NDF : 8245655.7/34

In: 339.581+/-0.094 χ^2/NDF : 4489974.5/17

Out: 325.014+/-0.088 χ^2/NDF : 4731713.8/21

All: 331.839+/-0.064 χ^2/NDF : 9234496.3/39

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -796.883+/-487.454 χ^2/NDF : 13.4/15

Left Out: 854.867+/-913.422 χ^2/NDF : 0.7/2

Right Out: -367.476+/-486.348 χ^2/NDF : 15.7/18

Left In: -2421.688+/-991.779 χ^2/NDF : 0.1/1

Left: -648.880+/-671.883 χ^2/NDF : 6.7/4

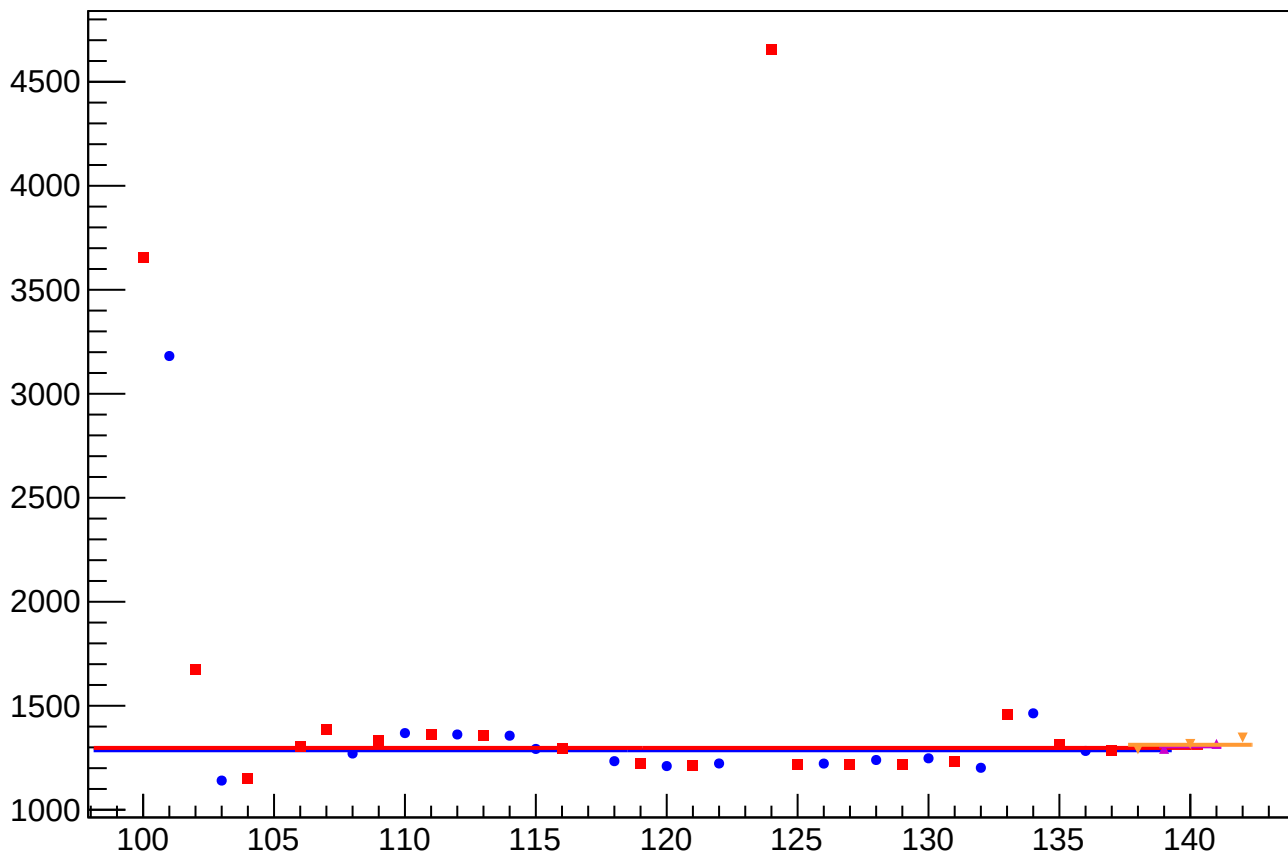
Right: -581.692+/-344.290 χ^2/NDF : 29.5/34

In: -1113.015+/-437.470 χ^2/NDF : 15.6/17

Out: -97.485+/-429.289 χ^2/NDF : 17.8/21

All: -595.665+/-306.405 χ^2/NDF : 36.2/39

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1286.097+/-0.345 χ^2/NDF : 518128.4/15

Left Out: 1312.398+/-0.646 χ^2/NDF :1047.2/2

Right Out: 1297.394+/-0.344 χ^2/NDF : 327741.7/18

Left In: 1304.917+/-0.701 χ^2/NDF :288.4/1

Left: 1308.965+/-0.475 χ^2/NDF : 1397.2/4

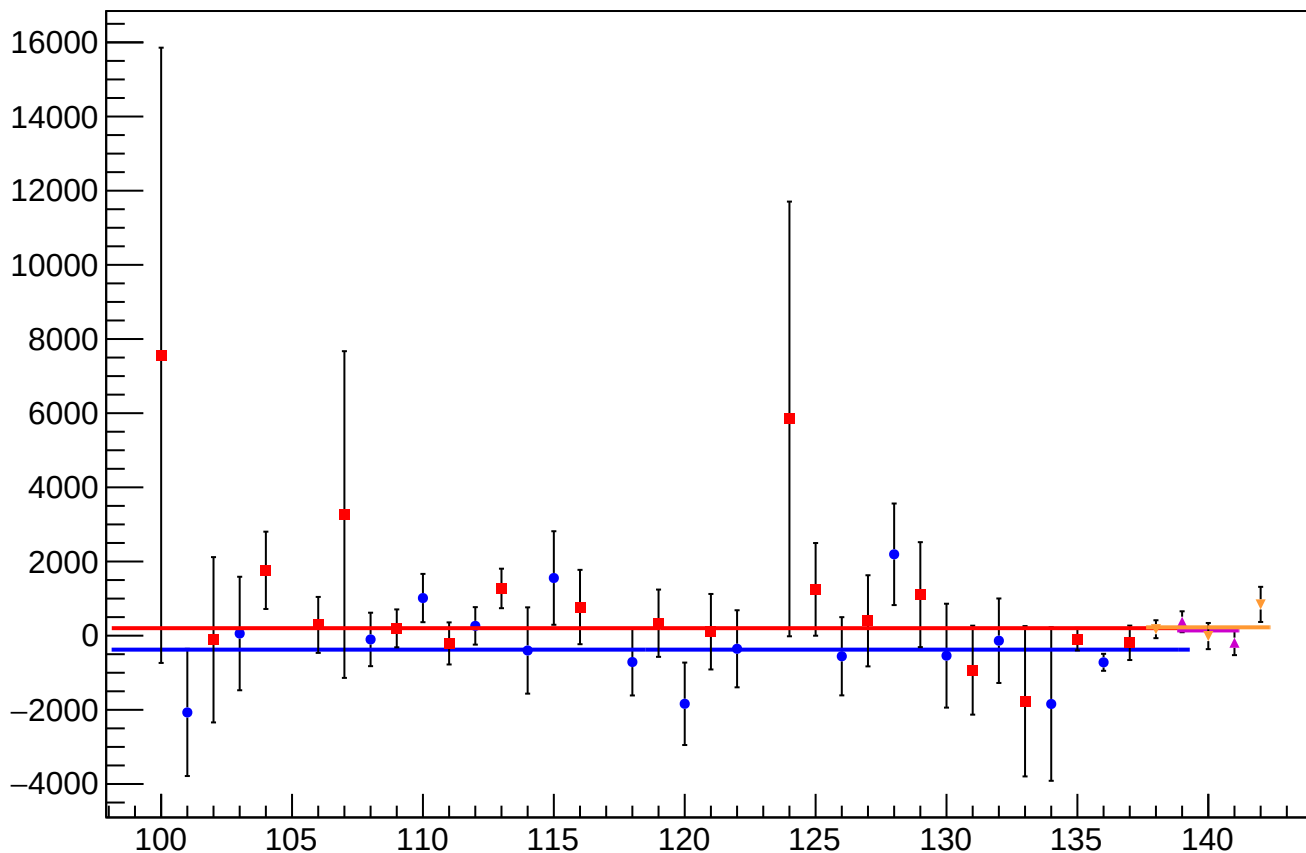
Right: 1291.758+/-0.243 χ^2/NDF : 846408.4/34

In: 1289.759+/-0.309 χ^2/NDF :518996.9/17

Out: 1300.708+/-0.304 χ^2/NDF :329209.3/21

All: 1295.337+/-0.217 χ^2/NDF : 848844.5/39

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -376.771 $\pm$ 168.223 χ^2 /NDF: 17.9/15

Left Out: 224.901 $\pm$ 183.699 χ^2 /NDF: 2.2/2

Right Out: 202.144 $\pm$ 169.377 χ^2 /NDF: 14.0/18

Left In: 141.120 $\pm$ 215.928 χ^2 /NDF: 1.7/1

Left: 189.724 $\pm$ 139.916 χ^2 /NDF: 3.9/4

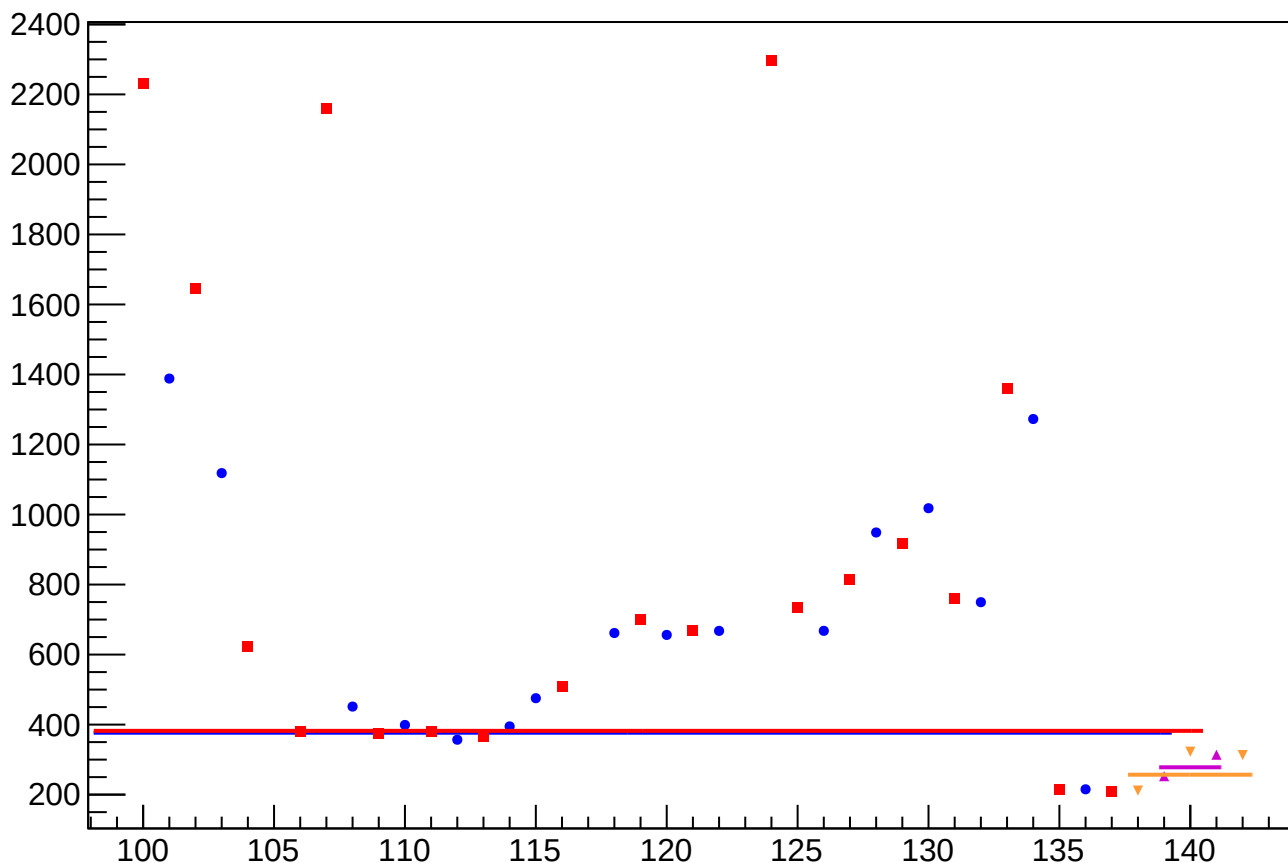
Right: -89.292 $\pm$ 119.358 χ^2 /NDF: 37.9/34

In: -181.162 $\pm$ 132.704 χ^2 /NDF: 23.2/17

Out: 212.601 $\pm$ 124.523 χ^2 /NDF: 16.3/21

All: 28.230 $\pm$ 90.806 χ^2 /NDF: 44.1/39

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 376.884+/-0.119 χ^2/NDF : 4193328.0/15

Left Out: 256.898+/-0.130 χ^2/NDF : 168067.0/2

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 278.092+/-0.153 χ^2/NDF : 39169.8/1

Left: 265.796+/-0.099 χ^2/NDF : 218414.8/4

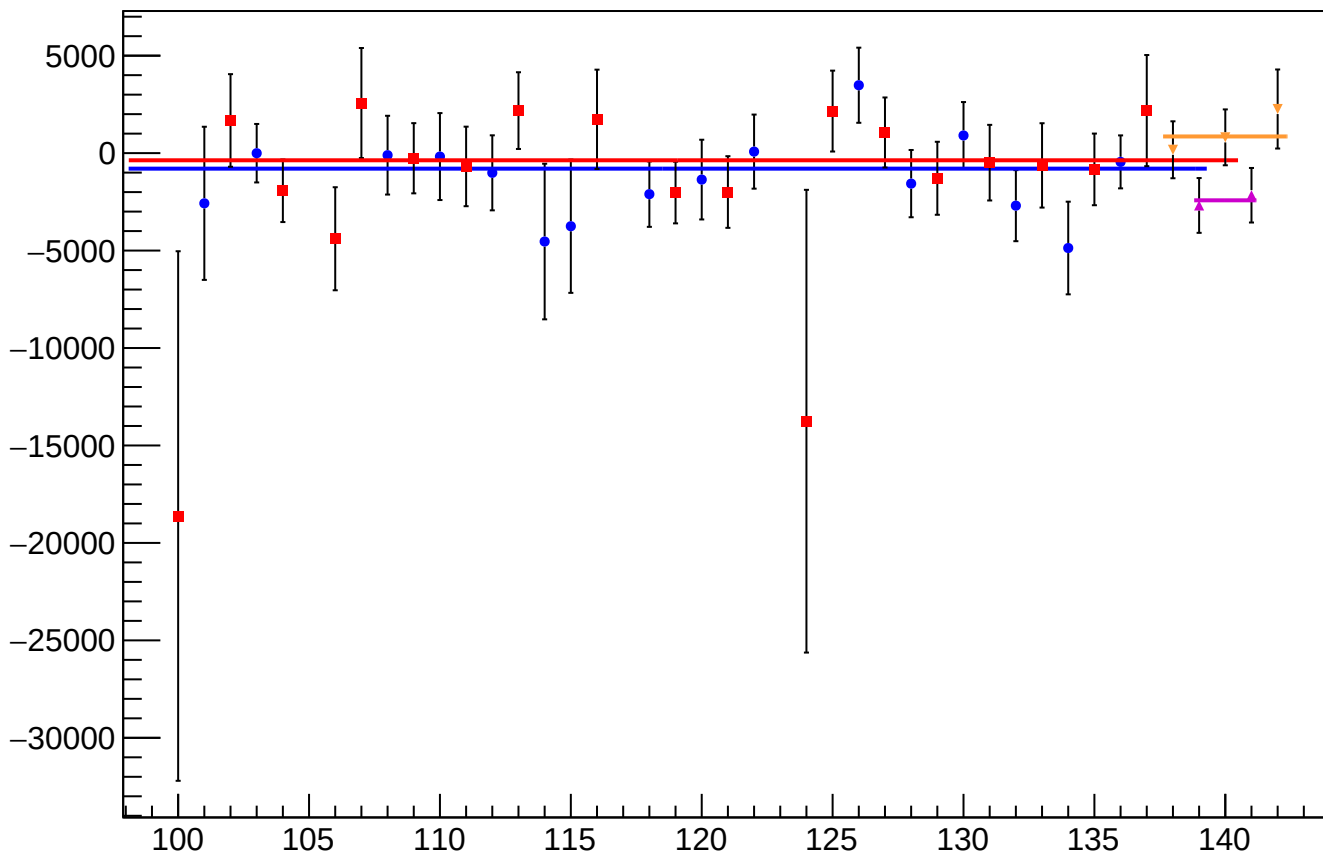
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 339.570+/-0.094 χ^2/NDF : 4493025.0/17

Out: 324.588+/-0.088 χ^2/NDF : 4730107.4/21

All: 331.603+/-0.064 χ^2/NDF : 9236687.2/39

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -796.883+/-487.454 χ^2/NDF : 13.4/15

Left Out: 854.867+/-913.422 χ^2/NDF : 0.7/2

Right Out: -367.476+/-486.348 χ^2/NDF : 15.7/18

Left In: -2421.688+/-991.779 χ^2/NDF : 0.1/1

Left: -648.880+/-671.883 χ^2/NDF : 6.7/4

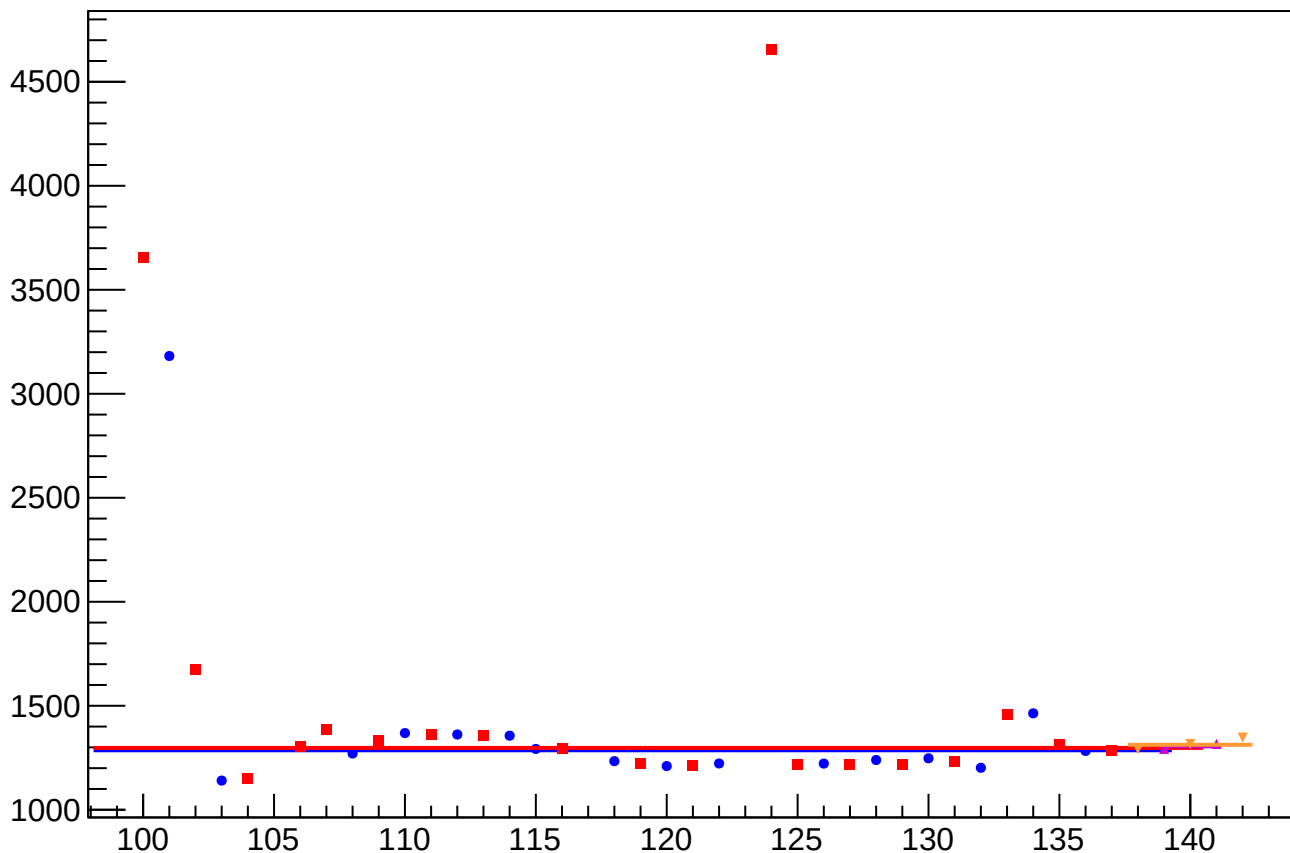
Right: -581.692+/-344.290 χ^2/NDF : 29.5/34

In: -1113.015+/-437.470 χ^2/NDF : 15.6/17

Out: -97.485+/-429.289 χ^2/NDF : 17.8/21

All: -595.665+/-306.405 χ^2/NDF : 36.2/39

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1286.097+/-0.345 χ^2/NDF : 518128.4/15

Left Out: 1312.398+/-0.646 χ^2/NDF :1047.2/2

Right Out: 1297.394+/-0.344 χ^2/NDF : 327741.7/18

Left In: 1304.917+/-0.701 χ^2/NDF :288.4/1

Left: 1308.965+/-0.475 χ^2/NDF : 1397.2/4

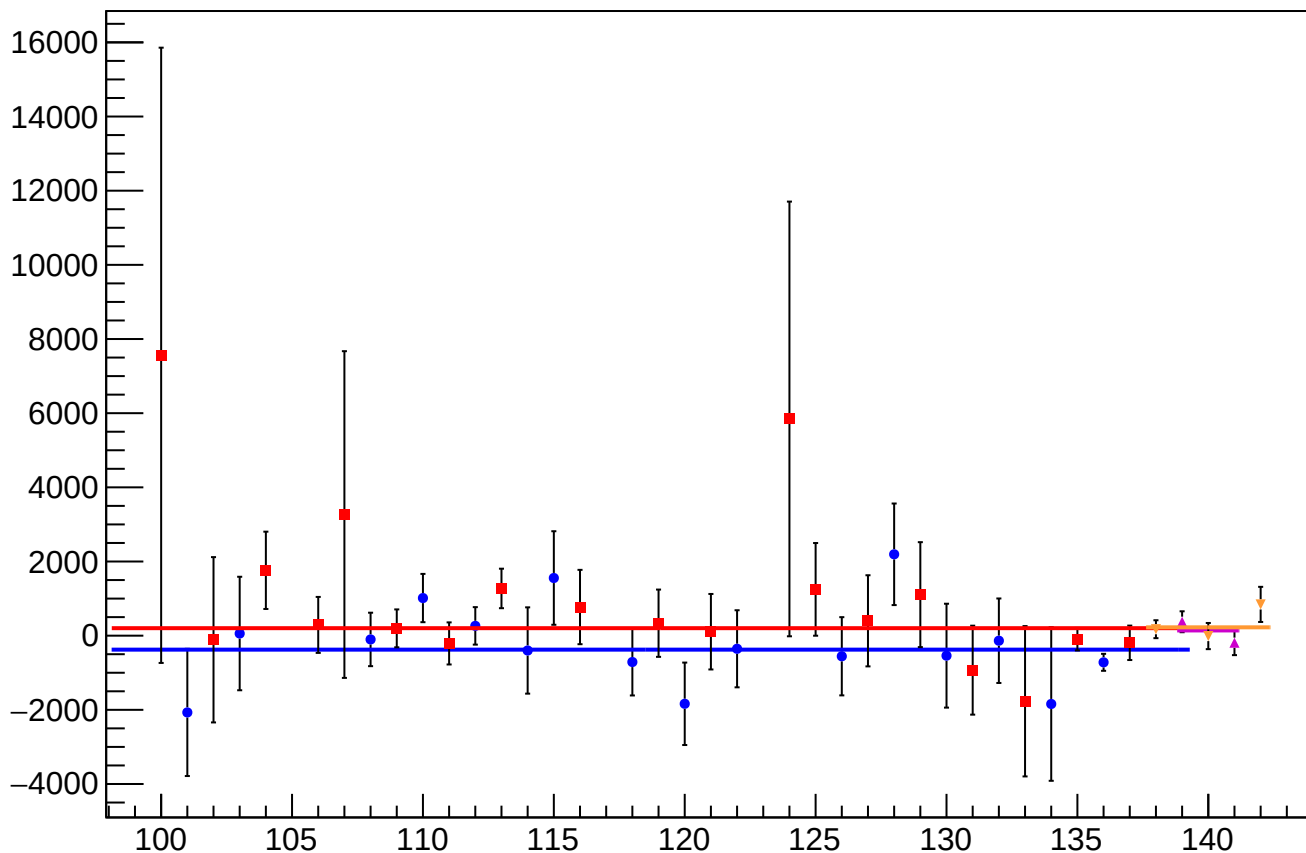
Right: 1291.758+/-0.243 χ^2/NDF : 846408.4/34

In: 1289.759+/-0.309 χ^2/NDF :518996.9/17

Out: 1300.708+/-0.304 χ^2/NDF :329209.3/21

All: 1295.337+/-0.217 χ^2/NDF : 848844.5/39

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -376.771 $\pm$ 168.223 χ^2 /NDF: 17.9/15

Left Out: 224.901 $\pm$ 183.699 χ^2 /NDF: 2.2/2

Right Out: 202.144 $\pm$ 169.377 χ^2 /NDF: 14.0/18

Left In: 141.120 $\pm$ 215.928 χ^2 /NDF: 1.7/1

Left: 189.724 $\pm$ 139.916 χ^2 /NDF: 3.9/4

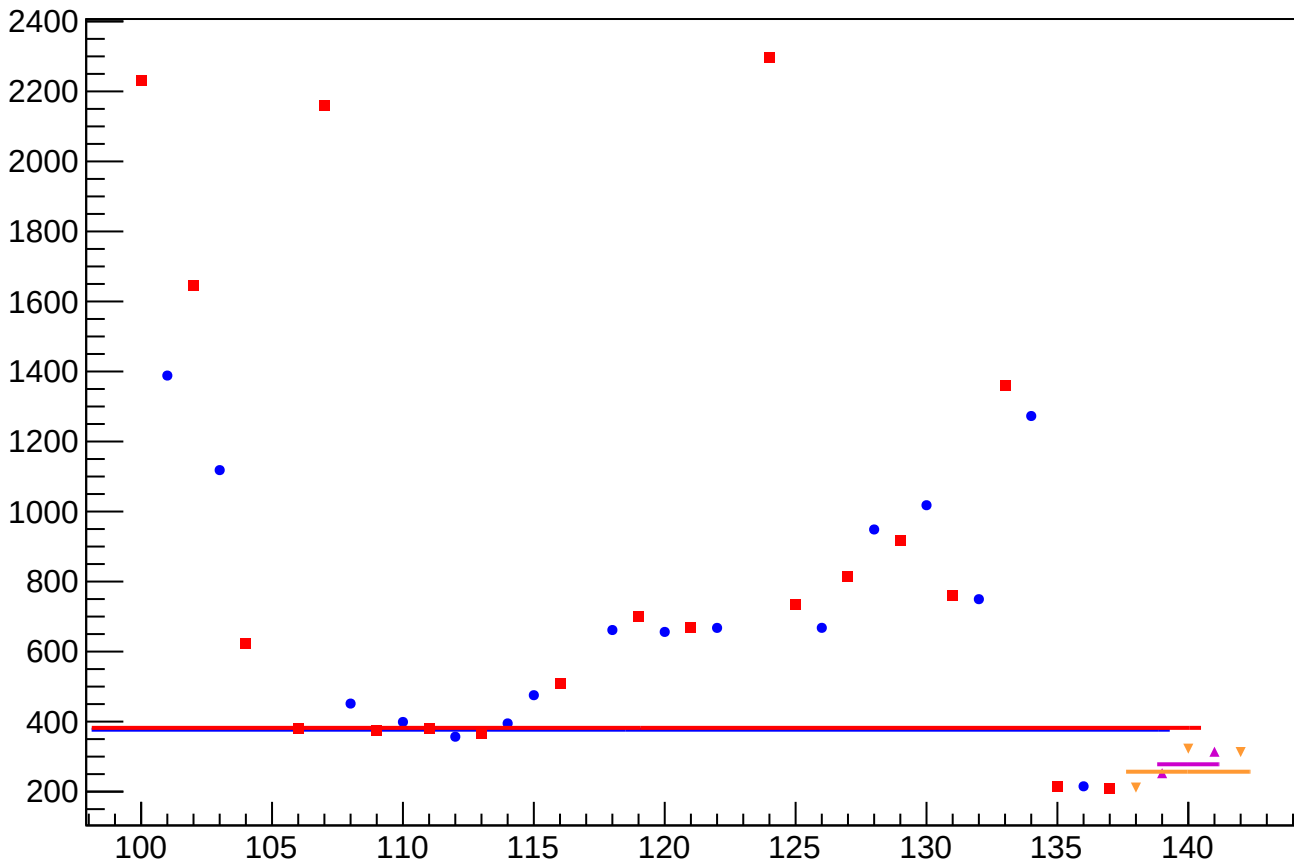
Right: -89.292 $\pm$ 119.358 χ^2 /NDF: 37.9/34

In: -181.162 $\pm$ 132.704 χ^2 /NDF: 23.2/17

Out: 212.601 $\pm$ 124.523 χ^2 /NDF: 16.3/21

All: 28.230 $\pm$ 90.806 χ^2 /NDF: 44.1/39

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 376.884+/-0.119 χ^2/NDF : 4193328.0/15

Left Out: 256.898+/-0.130 χ^2/NDF : 168067.0/2

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 278.092+/-0.153 χ^2/NDF : 39169.8/1

Left: 265.796+/-0.099 χ^2/NDF : 218414.8/4

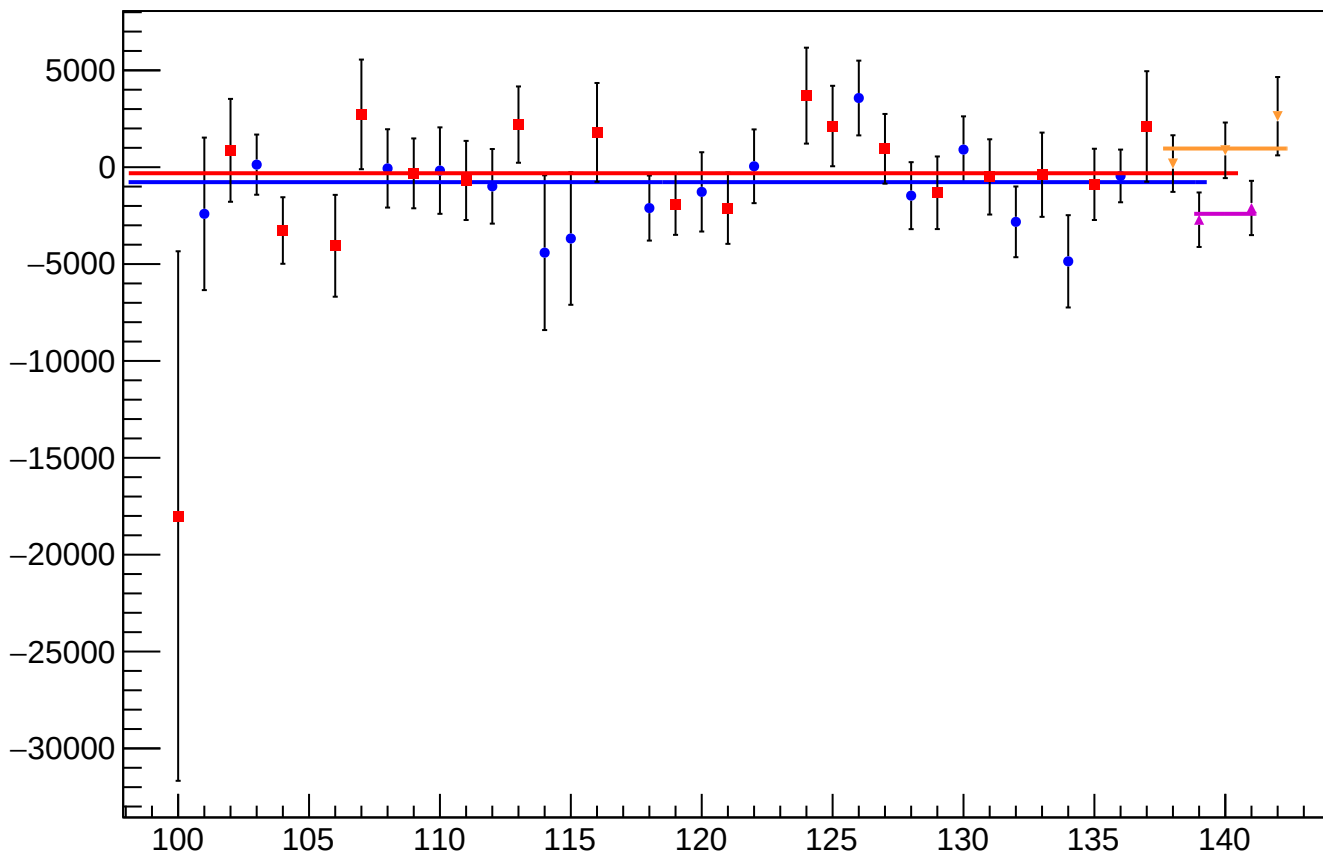
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 339.570+/-0.094 χ^2/NDF : 4493025.0/17

Out: 324.588+/-0.088 χ^2/NDF : 4730107.4/21

All: 331.603+/-0.064 χ^2/NDF : 9236687.2/39

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -771.499+/-489.602 χ^2/NDF : 13.6/15

Left Out: 963.452+/-913.258 χ^2/NDF : 1.0/2

Right Out: -311.418+/-482.642 χ^2/NDF : 17.9/18

Left In: -2406.569+/-992.473 χ^2/NDF : 0.1/1

Left: -581.718+/-672.033 χ^2/NDF : 7.3/4

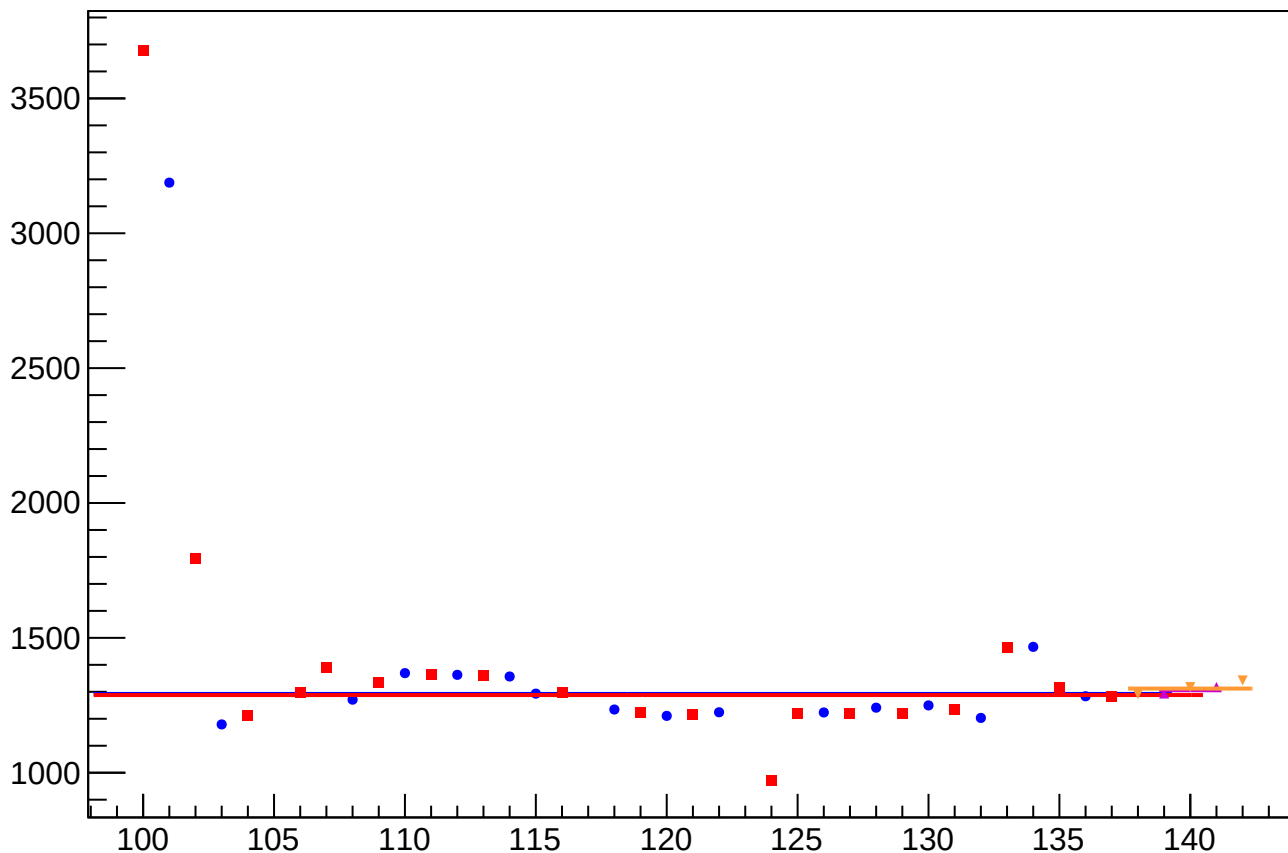
Right: -538.165+/-343.714 χ^2/NDF : 32.0/34

In: -1091.528+/-439.081 χ^2/NDF : 15.9/17

Out: -33.088+/-426.717 χ^2/NDF : 20.4/21

All: -547.196+/-306.012 χ^2/NDF : 39.3/39

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1292.038+/-0.346 χ^2/NDF : 509406.3/15

Left Out: 1312.020+/-0.646 χ^2/NDF : 889.4/2

Right Out: 1287.988+/-0.341 χ^2/NDF : 209208.8/18

Left In: 1305.816+/-0.702 χ^2/NDF : 295.2/1

Left: 1309.175+/-0.475 χ^2/NDF : 1227.0/4

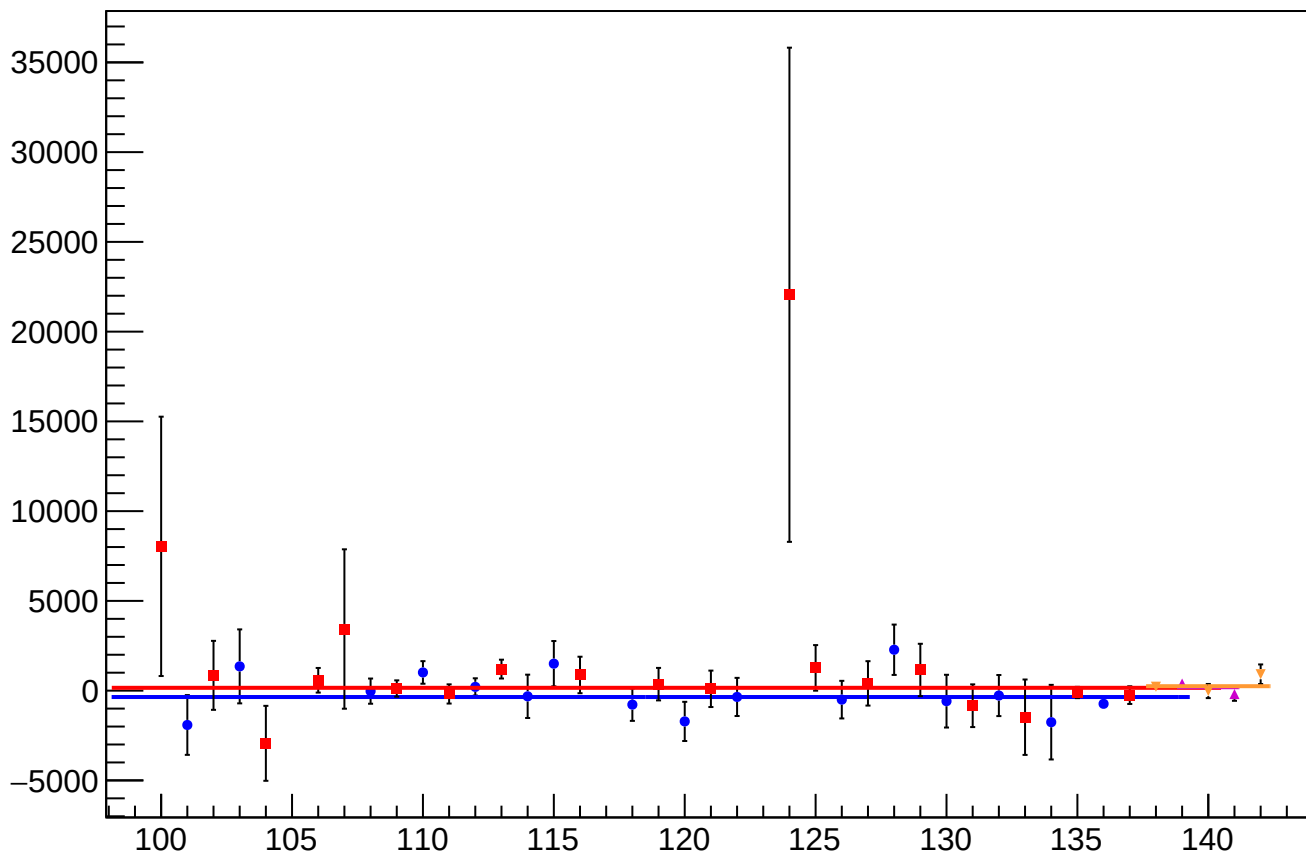
Right: 1289.984+/-0.243 χ^2/NDF : 718684.5/34

In: 1294.735+/-0.310 χ^2/NDF : 510011.5/17

Out: 1293.235+/-0.302 χ^2/NDF : 211180.8/21

All: 1293.963+/-0.216 χ^2/NDF : 721204.3/39

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.226 ± 169.971 $\chi^2/\text{NDF}: 18.4/15$

Left Out: 247.947 ± 193.660 $\chi^2/\text{NDF}: 2.0/2$

Right Out: 157.924 ± 169.665 $\chi^2/\text{NDF}: 15.8/18$

Left In: 191.190 ± 223.357 $\chi^2/\text{NDF}: 1.6/1$

Left: 223.590 ± 146.320 $\chi^2/\text{NDF}: 3.6/4$

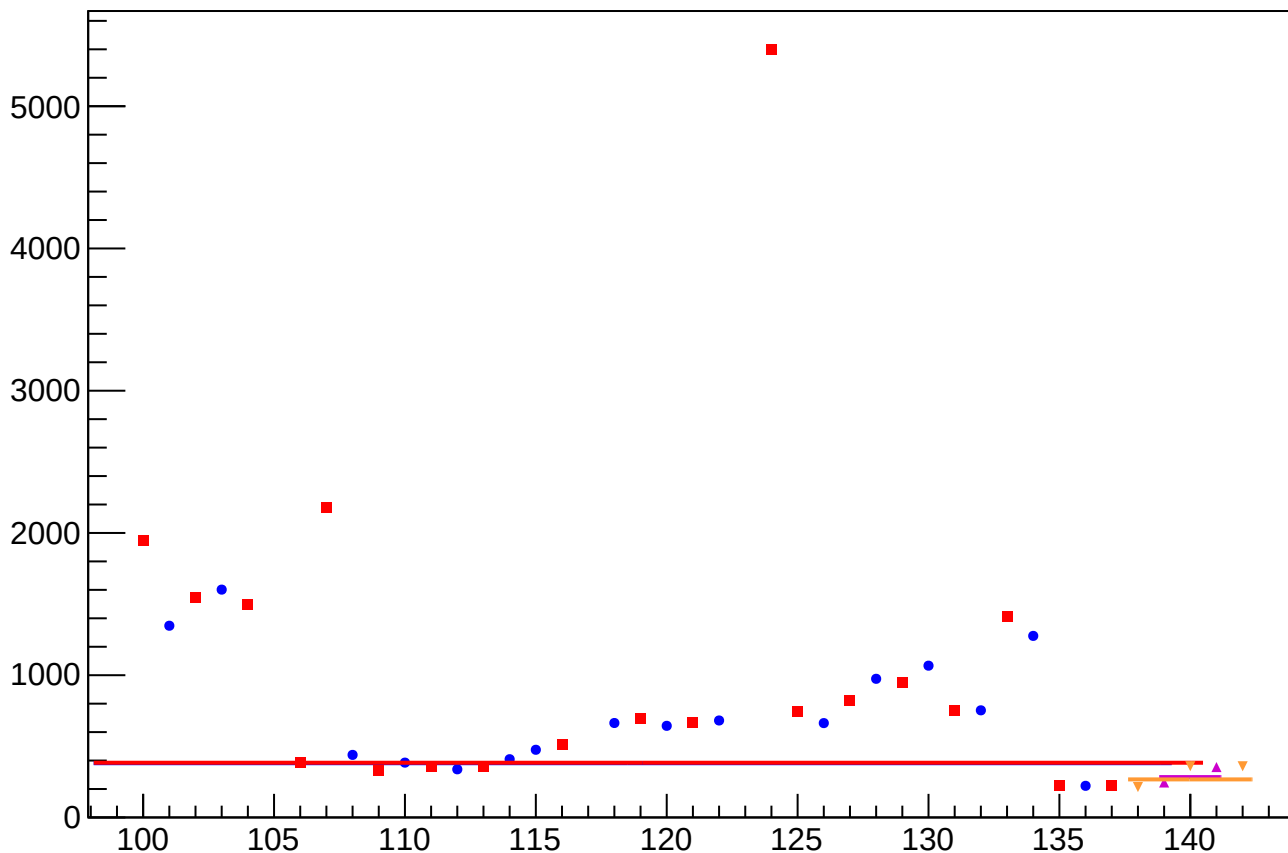
Right: -98.189 ± 120.079 $\chi^2/\text{NDF}: 38.8/34$

In: -154.842 ± 135.260 $\chi^2/\text{NDF}: 23.8/17$

Out: 197.016 ± 127.616 $\chi^2/\text{NDF}: 17.9/21$

All: 31.310 ± 92.823 $\chi^2/\text{NDF}: 45.3/39$

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 381.349+/-0.120 χ^2/NDF : 4317922.6/15

Left Out: 267.504+/-0.137 χ^2/NDF : 265674.6/2

Right Out: 384.651+/-0.120 χ^2/NDF : 4560208.6/18

Left In: 283.807+/-0.158 χ^2/NDF : 107020.9/1

Left: 274.500+/-0.103 χ^2/NDF : 378778.3/4

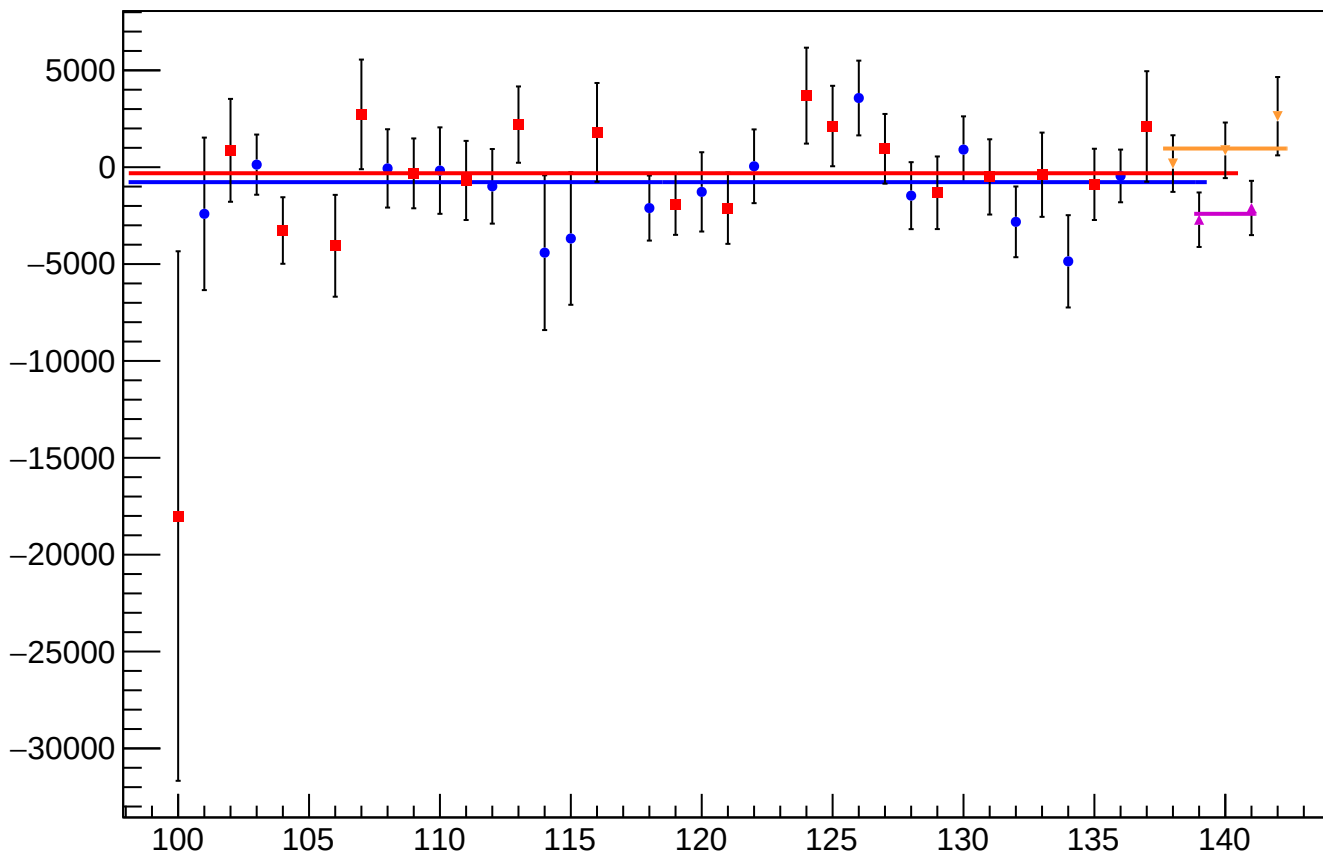
Right: 383.003+/-0.085 χ^2/NDF : 8878509.2/34

In: 345.578+/-0.096 χ^2/NDF : 4666493.7/17

Out: 333.780+/-0.090 χ^2/NDF : 5239923.4/21

All: 339.336+/-0.066 χ^2/NDF : 9914466.7/39

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -771.501+/-489.602 χ^2/NDF : 13.6/15

Left Out: 963.458+/-913.258 χ^2/NDF : 1.0/2

Right Out: -311.419+/-482.642 χ^2/NDF : 17.9/18

Left In: -2406.560+/-992.473 χ^2/NDF : 0.1/1

Left: -581.711+/-672.033 χ^2/NDF : 7.3/4

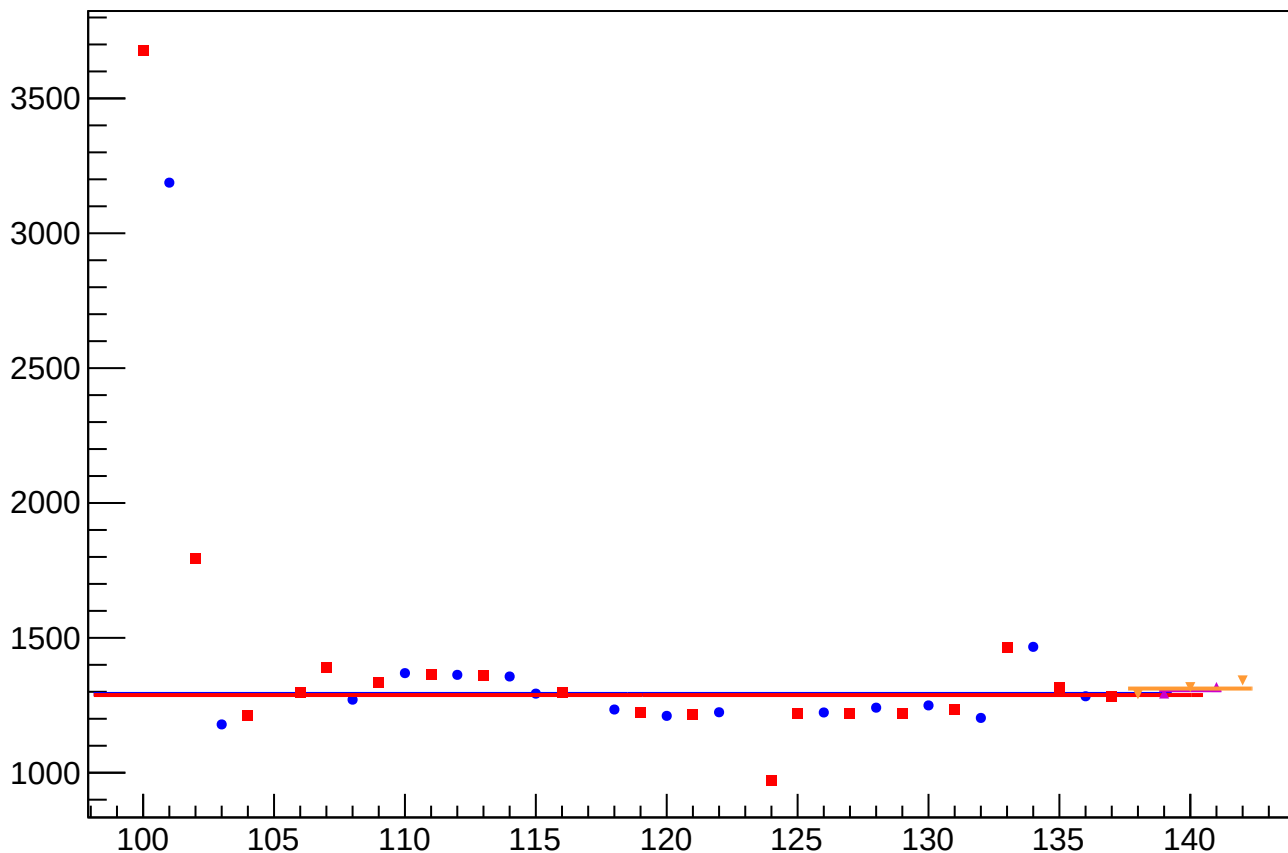
Right: -538.167+/-343.714 χ^2/NDF : 32.0/34

In: -1091.528+/-439.081 χ^2/NDF : 15.9/17

Out: -33.089+/-426.717 χ^2/NDF : 20.4/21

All: -547.196+/-306.012 χ^2/NDF : 39.3/39

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1292.038+/-0.346 χ^2/NDF : 509406.2/15

Left Out: 1312.020+/-0.646 χ^2/NDF : 889.4/2

Right Out: 1287.988+/-0.341 χ^2/NDF : 209209.1/18

Left In: 1305.816+/-0.702 χ^2/NDF : 295.2/1

Left: 1309.175+/-0.475 χ^2/NDF : 1227.0/4

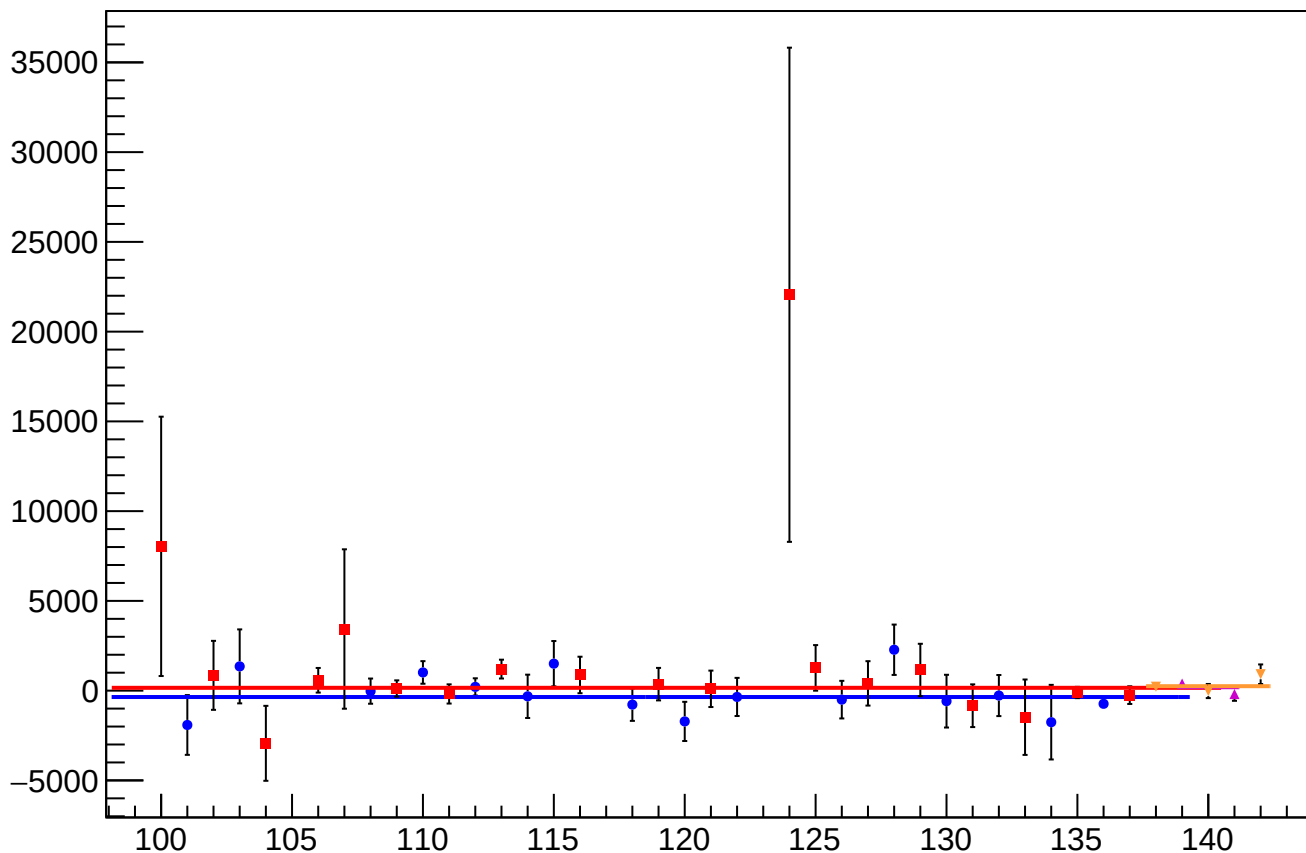
Right: 1289.984+/-0.243 χ^2/NDF : 718684.7/34

In: 1294.735+/-0.310 χ^2/NDF : 510011.5/17

Out: 1293.235+/-0.302 χ^2/NDF : 211181.1/21

All: 1293.963+/-0.216 χ^2/NDF : 721204.6/39

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.226+/-169.973 χ^2/NDF : 18.4/15

Left Out: 247.959+/-193.668 χ^2/NDF : 2.0/2

Right Out: 157.929+/-169.667 χ^2/NDF : 15.8/18

Left In: 191.194+/-223.367 χ^2/NDF : 1.6/1

Left: 223.598+/-146.326 χ^2/NDF : 3.6/4

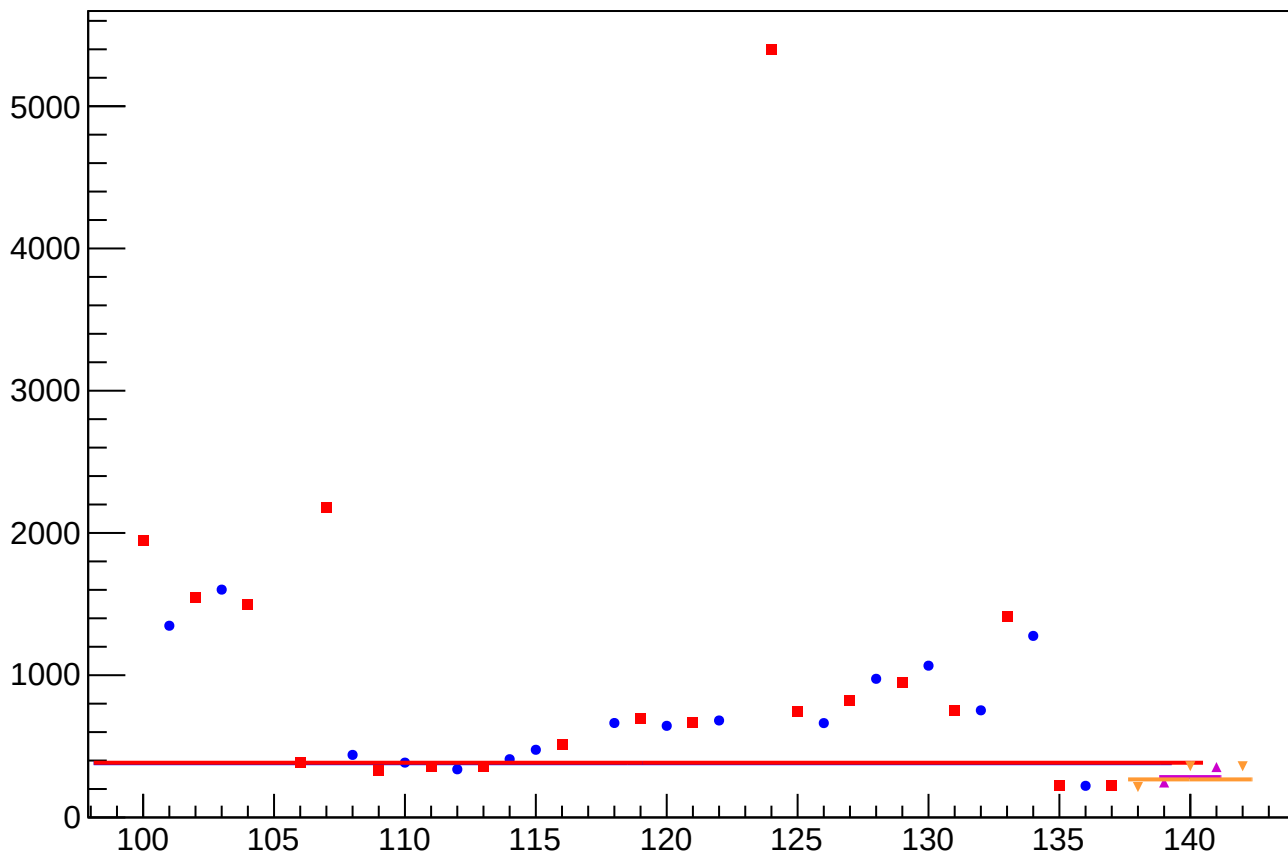
Right: -98.185+/-120.081 χ^2/NDF : 38.8/34

In: -154.847+/-135.264 χ^2/NDF : 23.8/17

Out: 197.022+/-127.620 χ^2/NDF : 17.9/21

All: 31.311+/-92.826 χ^2/NDF : 45.3/39

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 381.359+/-0.120 χ^2/NDF : 4317737.3/15

Left Out: 267.517+/-0.137 χ^2/NDF :265626.9/2

Right Out: 384.658+/-0.120 χ^2/NDF : 4560068.3/18

Left In: 283.821+/-0.158 χ^2/NDF :106991.7/1

Left: 274.514+/-0.103 χ^2/NDF : 378701.3/4

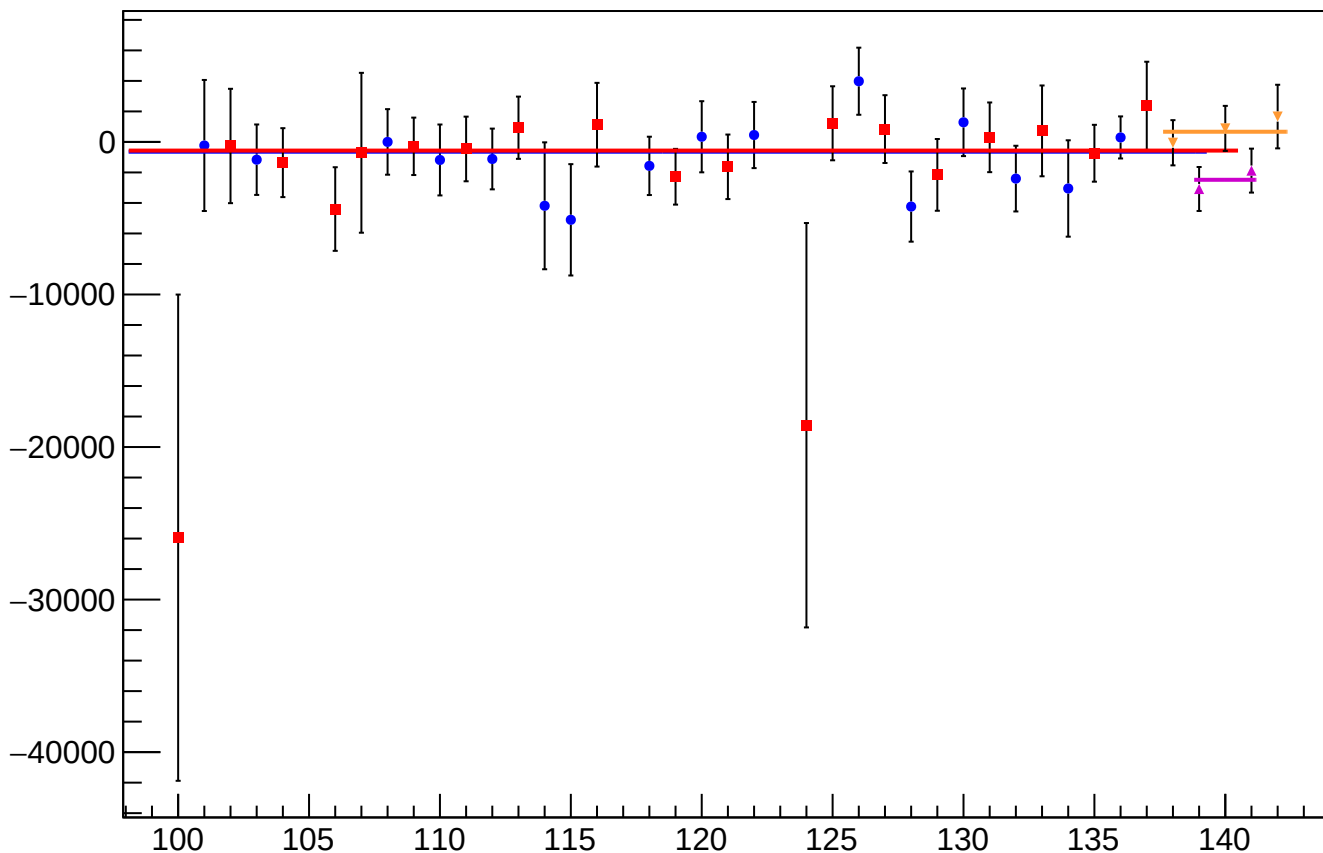
Right: 383.012+/-0.085 χ^2/NDF : 8878183.1/34

In: 345.591+/-0.096 χ^2/NDF :4666244.0/17

Out: 333.792+/-0.090 χ^2/NDF :5239671.5/21

All: 339.349+/-0.066 χ^2/NDF : 9913965.6/39

asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -640.824+/-564.366 χ^2/NDF : 12.5/15

Left Out: 668.200+/-935.151 χ^2/NDF : 0.5/2

Right Out: -567.254+/-566.774 χ^2/NDF : 11.3/18

Left In: -2481.984+/-1018.961 χ^2/NDF : 0.3/1

Left: -772.032+/-688.978 χ^2/NDF : 6.0/4

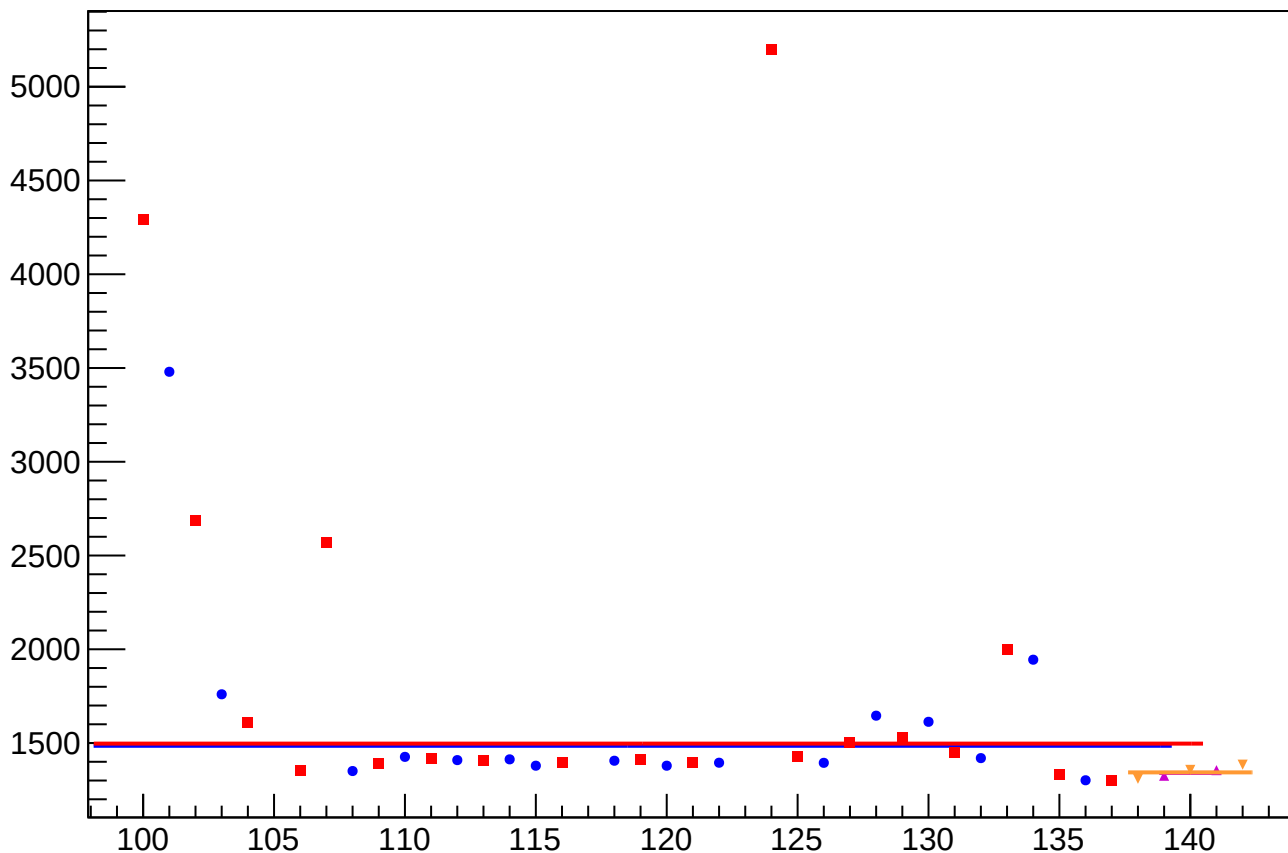
Right: -604.196+/-399.916 χ^2/NDF : 23.8/34

In: -1073.040+/-493.699 χ^2/NDF : 15.3/17

Out: -235.352+/-484.700 χ^2/NDF : 13.1/21

All: -646.492+/-345.872 χ^2/NDF : 29.9/39

asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1485.370+/-0.399 χ^2/NDF : 584470.1/15

Left Out: 1343.446+/-0.661 χ^2/NDF : 2012.8/2

Right Out: 1496.865+/-0.401 χ^2/NDF : 623292.7/18

Left In: 1340.532+/-0.721 χ^2/NDF : 427.7/1

Left: 1342.114+/-0.487 χ^2/NDF : 2449.3/4

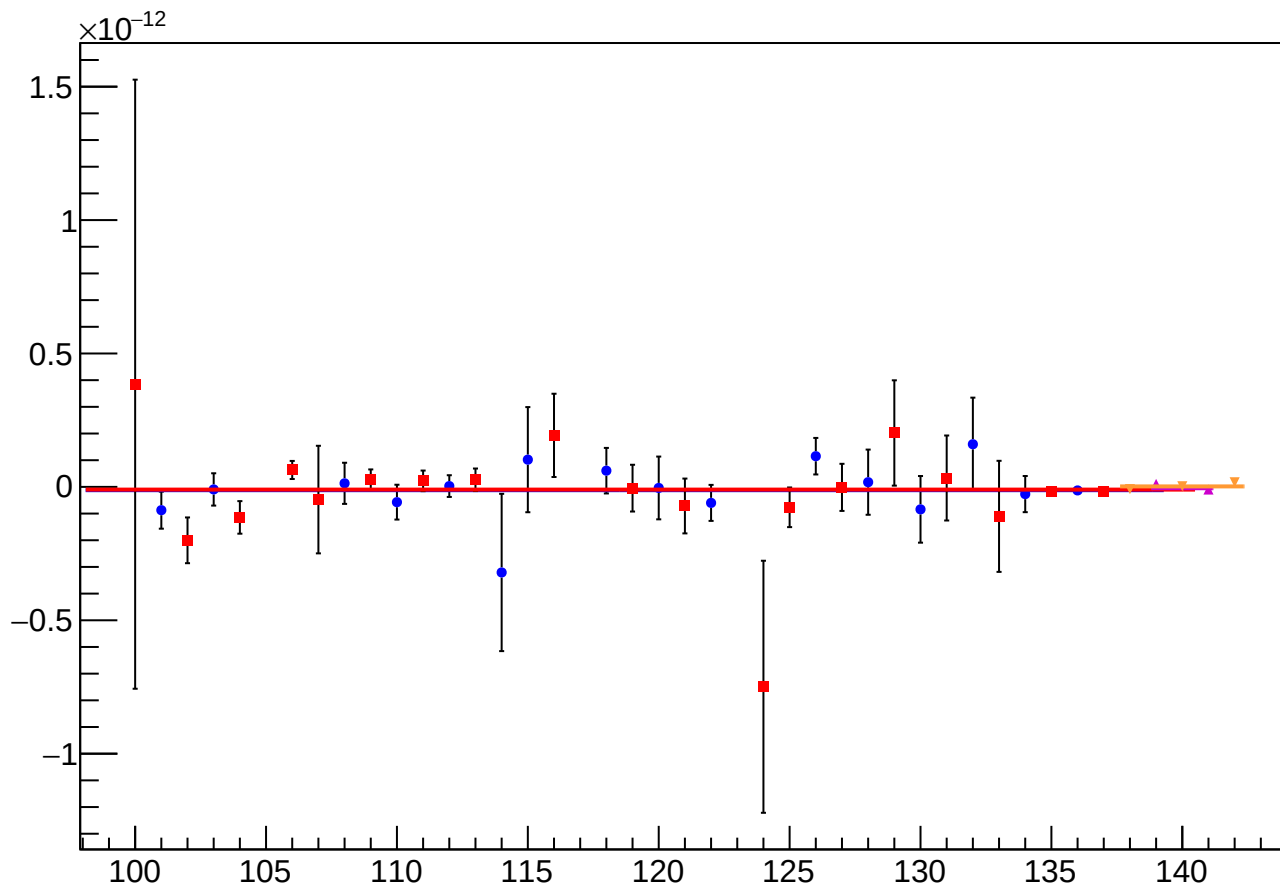
Right: 1491.093+/-0.283 χ^2/NDF : 1208175.9/34

In: 1451.369+/-0.349 χ^2/NDF : 615820.8/17

Out: 1455.650+/-0.343 χ^2/NDF : 664674.5/21

All: 1453.549+/-0.245 χ^2/NDF : 1280571.9/39

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_slug_Sign_Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 9.4/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 3.2/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 22.3/18

Left In: -0.000 ± 0.000 χ^2/NDF : 2.9/1

Left: -0.000 ± 0.000 χ^2/NDF : 7.2/4

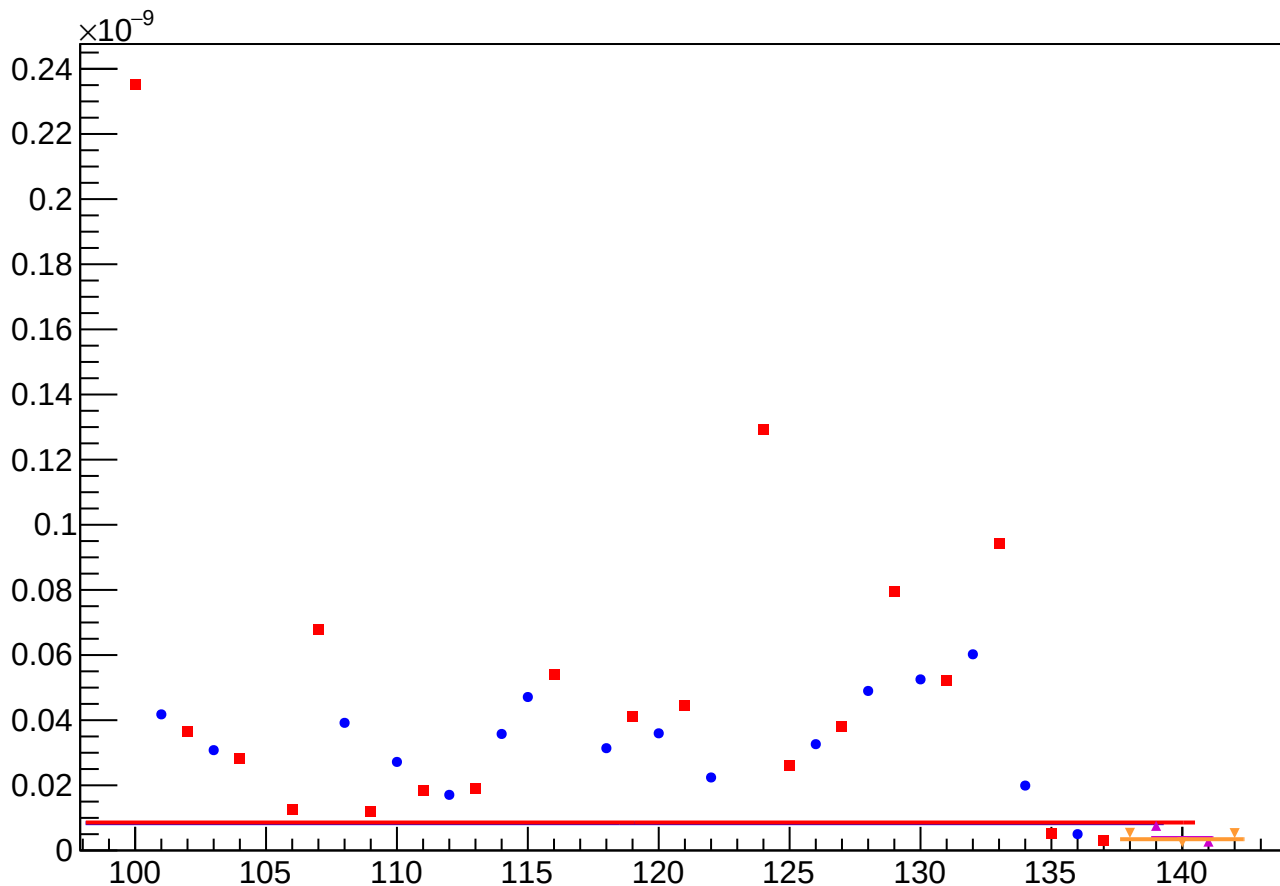
Right: -0.000 ± 0.000 χ^2/NDF : 31.8/34

In: -0.000 ± 0.000 χ^2/NDF : 13.0/17

Out: -0.000 ± 0.000 χ^2/NDF : 27.3/21

All: -0.000 ± 0.000 χ^2/NDF : 41.9/39

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3059657.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 231006.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3348571.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 314996.8/1

Left: 0.000+/-0.000 χ^2/NDF : 552635.3/4

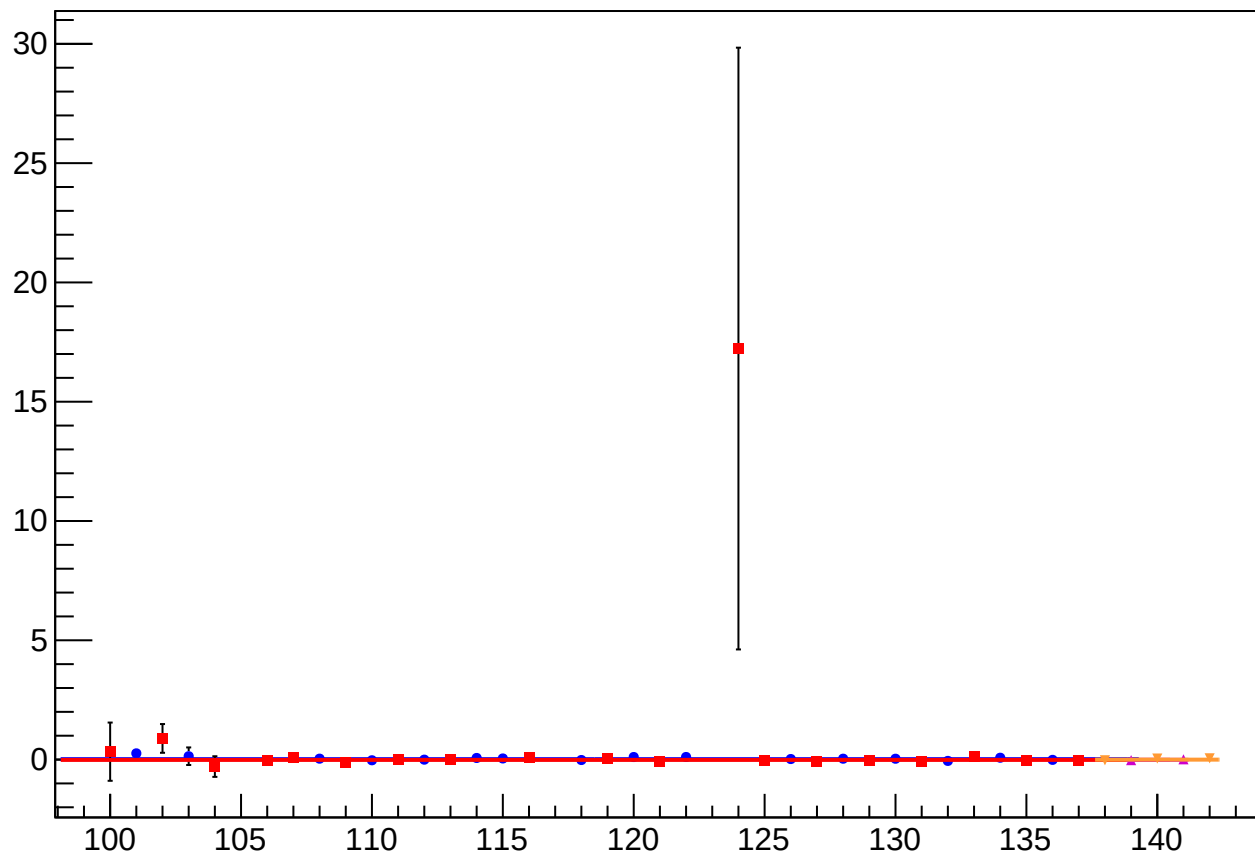
Right: 0.000+/-0.000 χ^2/NDF : 6408892.5/34

In: 0.000+/-0.000 χ^2/NDF : 3882672.1/17

Out: 0.000+/-0.000 χ^2/NDF : 4235322.1/21

All: 0.000+/-0.000 χ^2/NDF : 8163403.2/39

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.015 χ^2 /NDF: 11.5/15

Left Out: -0.003 $\pm$ 0.022 χ^2 /NDF:2.7/2

Right Out: -0.014 $\pm$ 0.016 χ^2 /NDF: 16.0/18

Left In: -0.013 $\pm$ 0.024 χ^2 /NDF:0.5/1

Left: -0.008 $\pm$ 0.016 χ^2 /NDF: 3.2/4

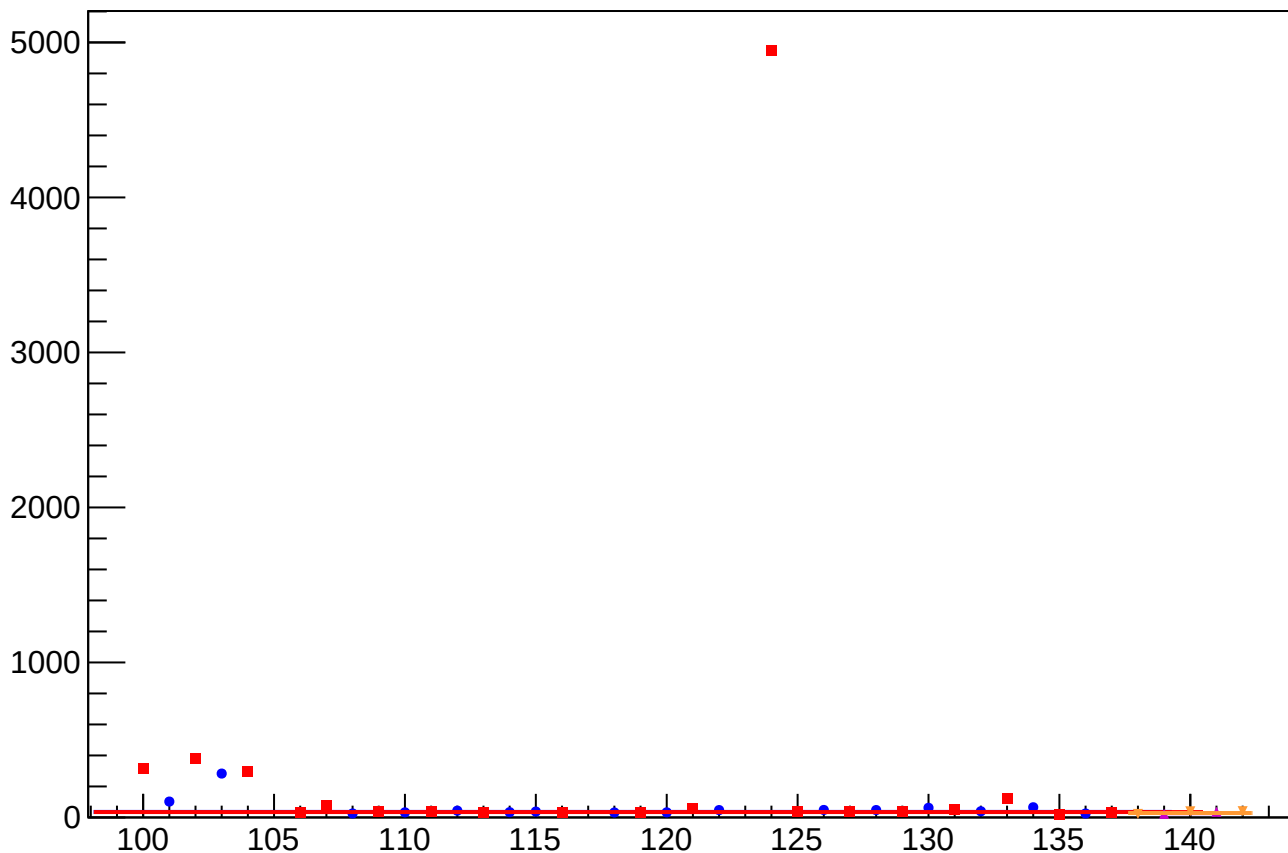
Right: 0.002 $\pm$ 0.011 χ^2 /NDF: 29.4/34

In: 0.008 $\pm$ 0.013 χ^2 /NDF:13.0/17

Out: -0.010 $\pm$ 0.013 χ^2 /NDF:18.9/21

All: -0.001 $\pm$ 0.009 χ^2 /NDF: 32.9/39

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.742 $\pm$ 0.011 χ^2 /NDF: 2264790.8/15

Left Out: 28.564 $\pm$ 0.016 χ^2 /NDF: 272597.1/2

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 27.832 $\pm$ 0.017 χ^2 /NDF: 137553.8/1

Left: 28.229 $\pm$ 0.012 χ^2 /NDF: 411146.3/4

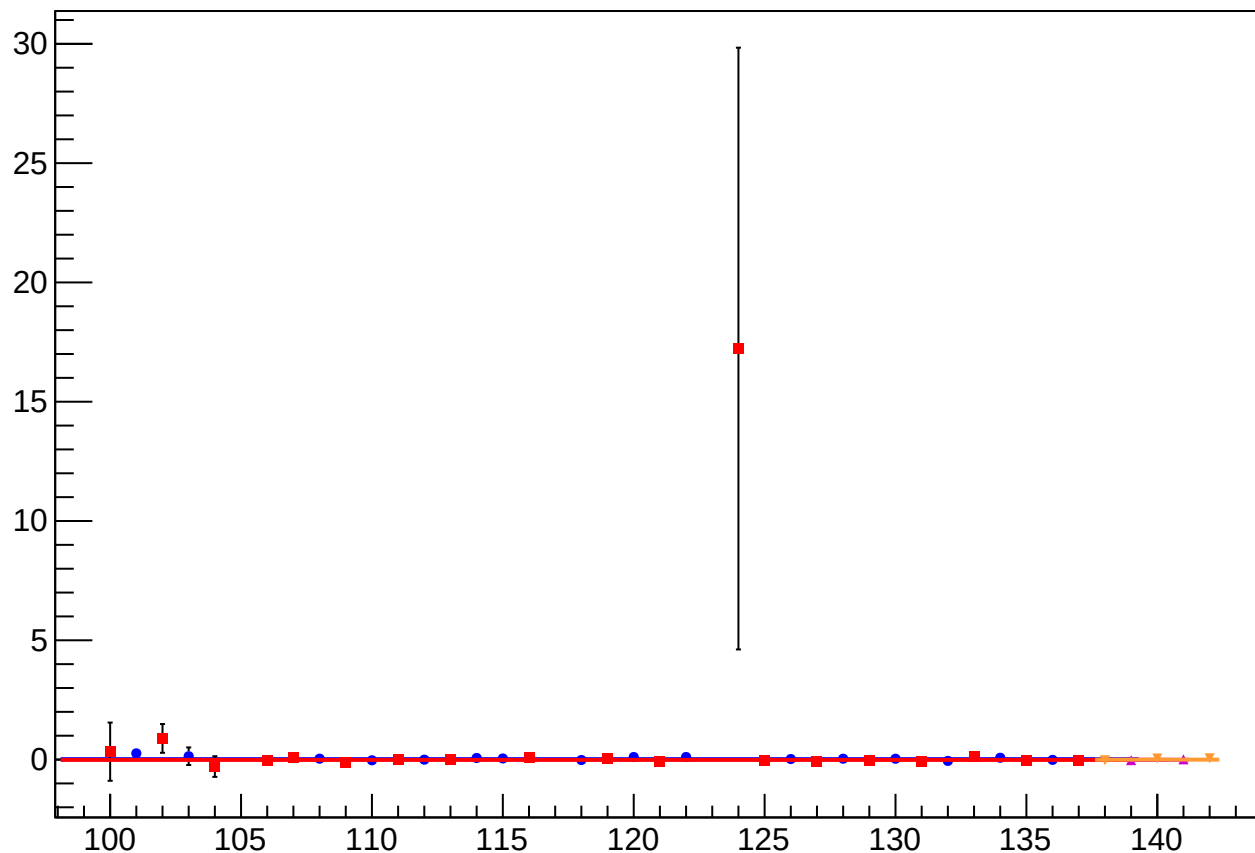
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 33.449 $\pm$ 0.009 χ^2 /NDF: 2554400.1/17

Out: 32.734 $\pm$ 0.009 χ^2 /NDF: 3292133.5/21

All: 33.085 $\pm$ 0.006 χ^2 /NDF: 5849605.9/39

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.015 χ^2 /NDF: 11.5/15

Left Out: -0.003 $\pm$ 0.022 χ^2 /NDF:2.7/2

Right Out: -0.014 $\pm$ 0.016 χ^2 /NDF: 16.0/18

Left In: -0.013 $\pm$ 0.024 χ^2 /NDF:0.5/1

Left: -0.008 $\pm$ 0.016 χ^2 /NDF: 3.2/4

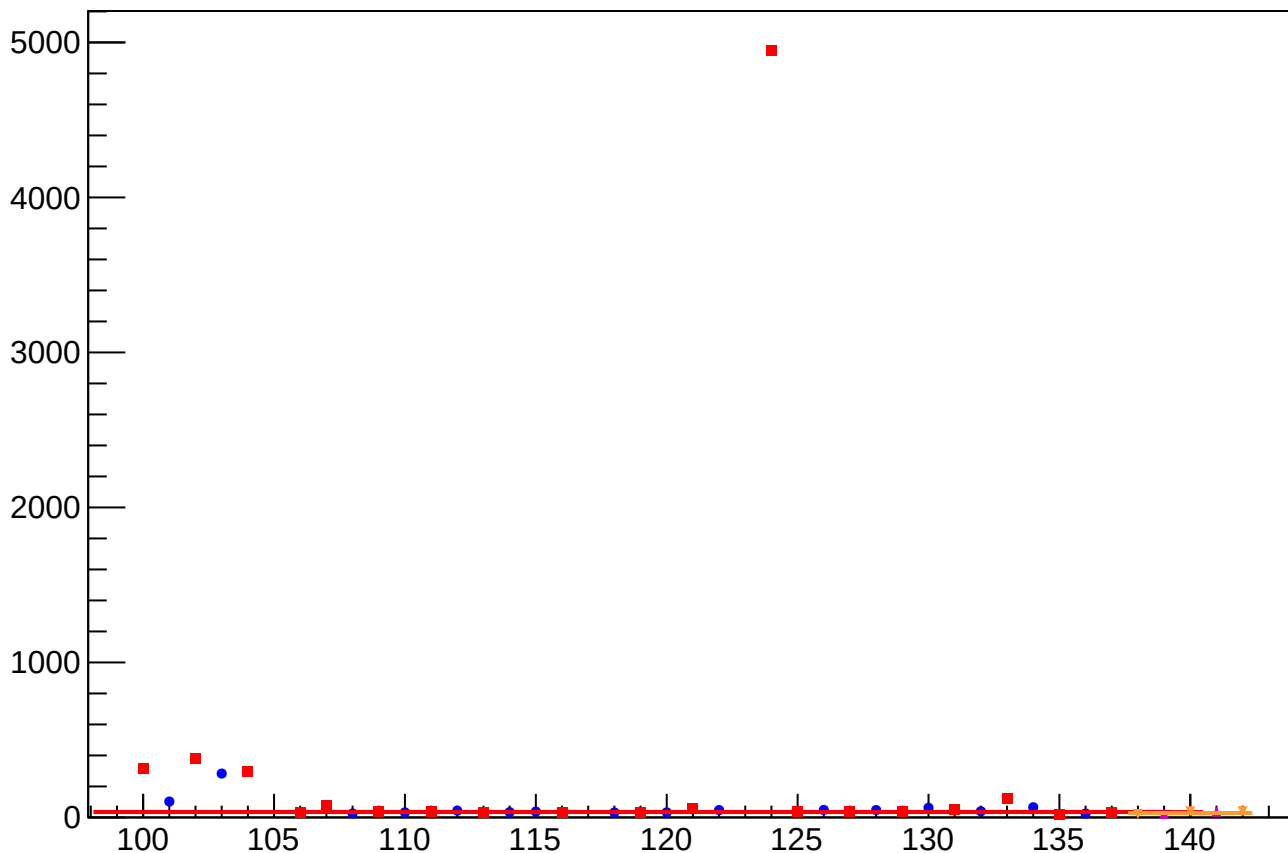
Right: 0.002 $\pm$ 0.011 χ^2 /NDF: 29.4/34

In: 0.008 $\pm$ 0.013 χ^2 /NDF:13.0/17

Out: -0.010 $\pm$ 0.013 χ^2 /NDF:18.9/21

All: -0.001 $\pm$ 0.009 χ^2 /NDF: 32.9/39

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.742 $\pm$ 0.011 χ^2 /NDF: 2264790.8/15

Left Out: 28.564 $\pm$ 0.016 χ^2 /NDF: 272597.1/2

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 27.832 $\pm$ 0.017 χ^2 /NDF: 137553.8/1

Left: 28.229 $\pm$ 0.012 χ^2 /NDF: 411146.3/4

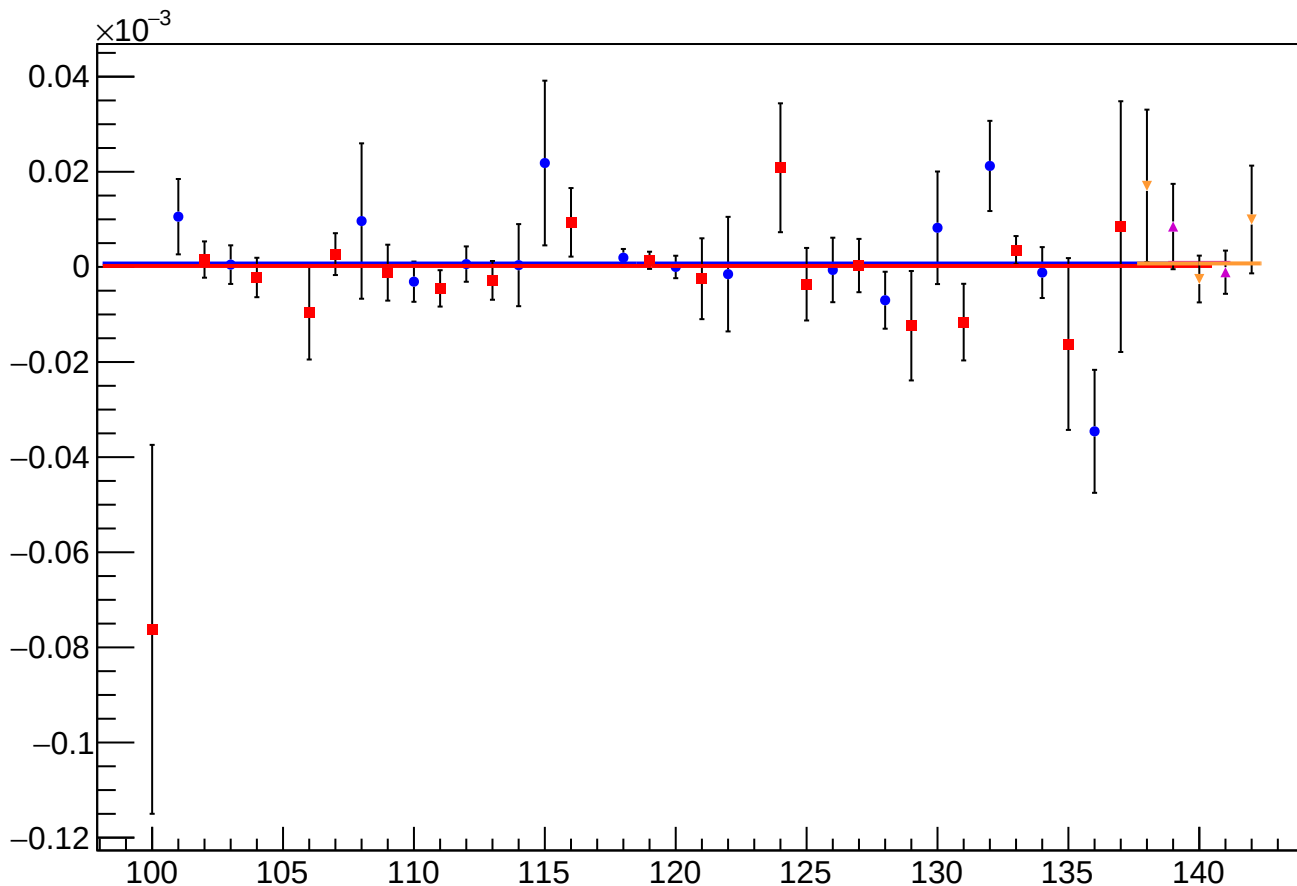
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 33.449 $\pm$ 0.009 χ^2 /NDF: 2554400.1/17

Out: 32.734 $\pm$ 0.009 χ^2 /NDF: 3292133.5/21

All: 33.085 $\pm$ 0.006 χ^2 /NDF: 5849605.9/39

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.9/1

Left: 0.000+/-0.000 χ^2/NDF : 3.1/4

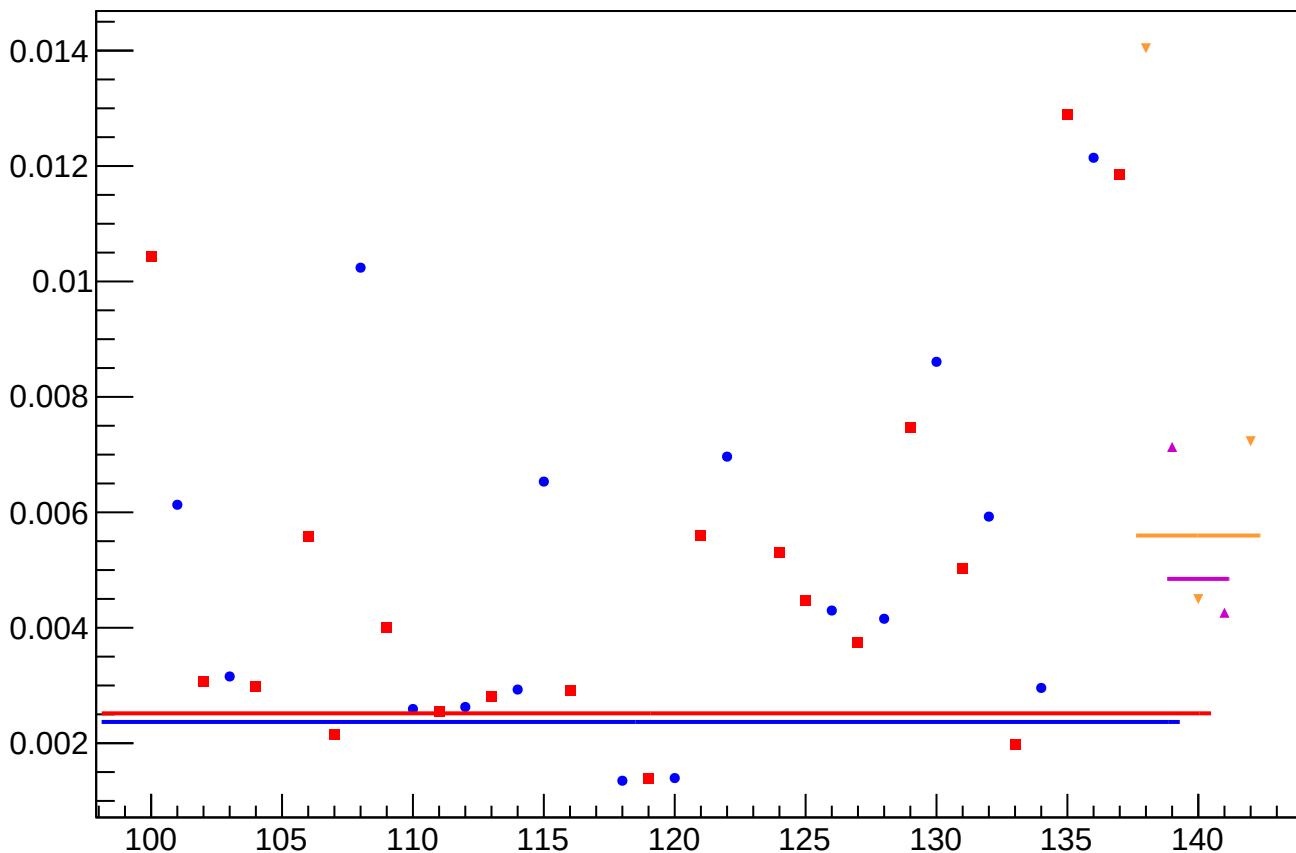
Right: 0.000+/-0.000 χ^2/NDF : 37.3/34

In: 0.000+/-0.000 χ^2/NDF : 20.0/17

Out: 0.000+/-0.000 χ^2/NDF : 20.2/21

All: 0.000+/-0.000 χ^2/NDF : 40.4/39

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000

χ^2/NDF : 4721602.1/15

Left Out: 0.006+/-0.000

χ^2/NDF : 696638.7/2

Right Out: 0.003+/-0.000

χ^2/NDF : 3397462.9/18

Left In: 0.005+/-0.000

χ^2/NDF : 163119.1/1

Left: 0.005+/-0.000

χ^2/NDF : 891782.0/4

Right: 0.002+/-0.000

χ^2/NDF : 8137943.7/34

In: 0.003+/-0.000

χ^2/NDF : 5580762.7/17

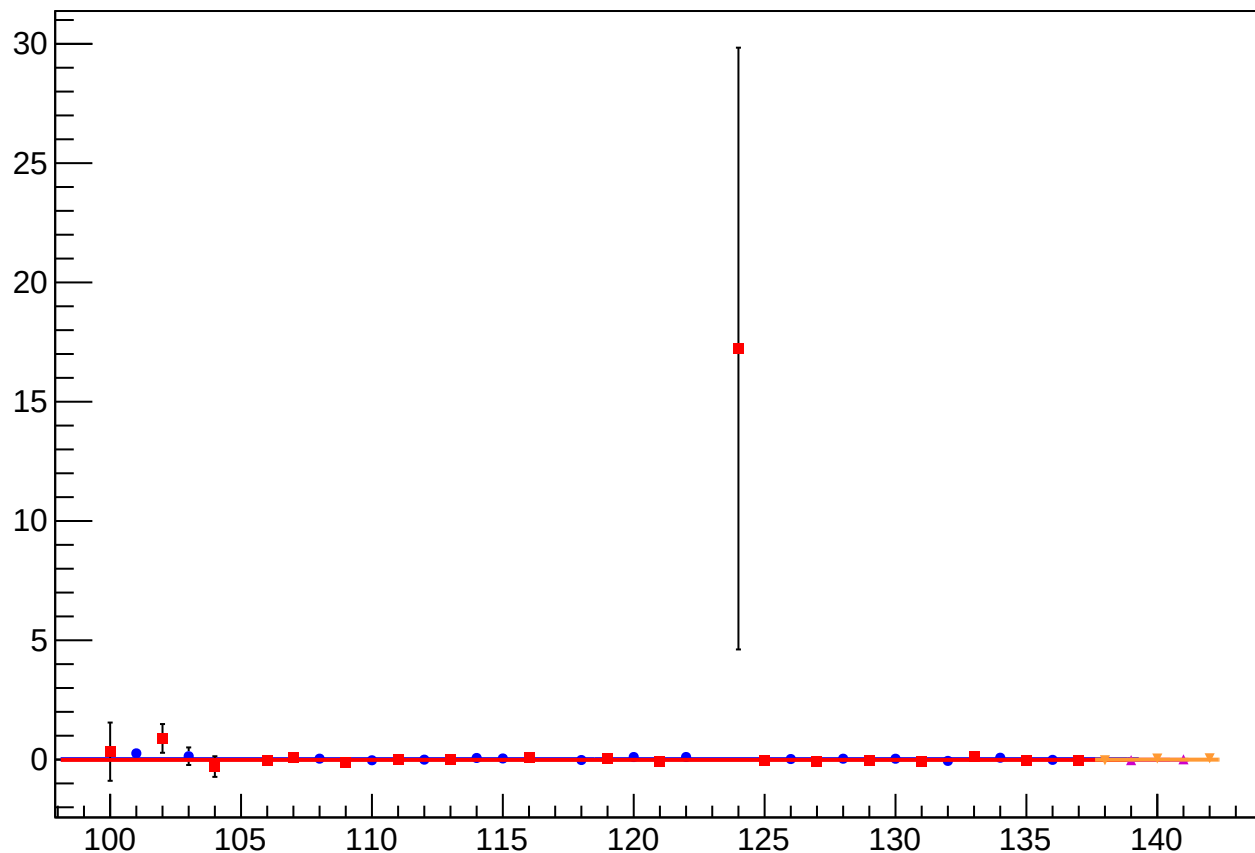
Out: 0.003+/-0.000

χ^2/NDF : 5044135.9/21

All: 0.003+/-0.000

χ^2/NDF : 10645806.3/39

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.015 χ^2/NDF : 11.5/15

Left Out: -0.003+/-0.022 χ^2/NDF : 2.7/2

Right Out: -0.014+/-0.016 χ^2/NDF : 16.0/18

Left In: -0.013+/-0.024 χ^2/NDF : 0.5/1

Left: -0.008+/-0.016 χ^2/NDF : 3.2/4

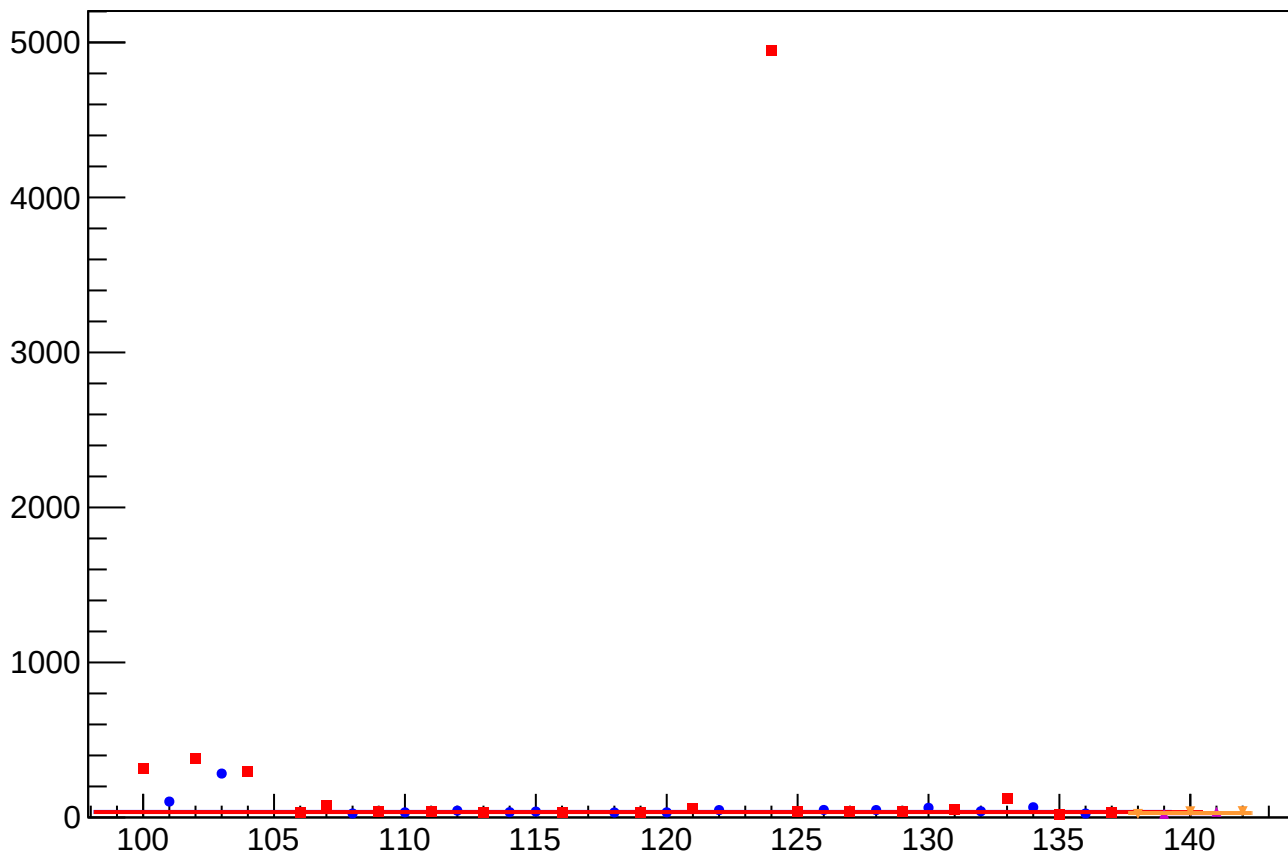
Right: 0.002+/-0.011 χ^2/NDF : 29.4/34

In: 0.008+/-0.013 χ^2/NDF : 13.0/17

Out: -0.010+/-0.013 χ^2/NDF : 18.9/21

All: -0.001+/-0.009 χ^2/NDF : 32.9/39

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.743+/-0.011 χ^2/NDF : 2264513.9/15

Left Out: 28.563+/-0.016 χ^2/NDF : 272748.3/2

Right Out: 34.798+/-0.011 χ^2/NDF : 2913962.5/18

Left In: 27.827+/-0.017 χ^2/NDF : 137739.1/1

Left: 28.226+/-0.012 χ^2/NDF : 411493.2/4

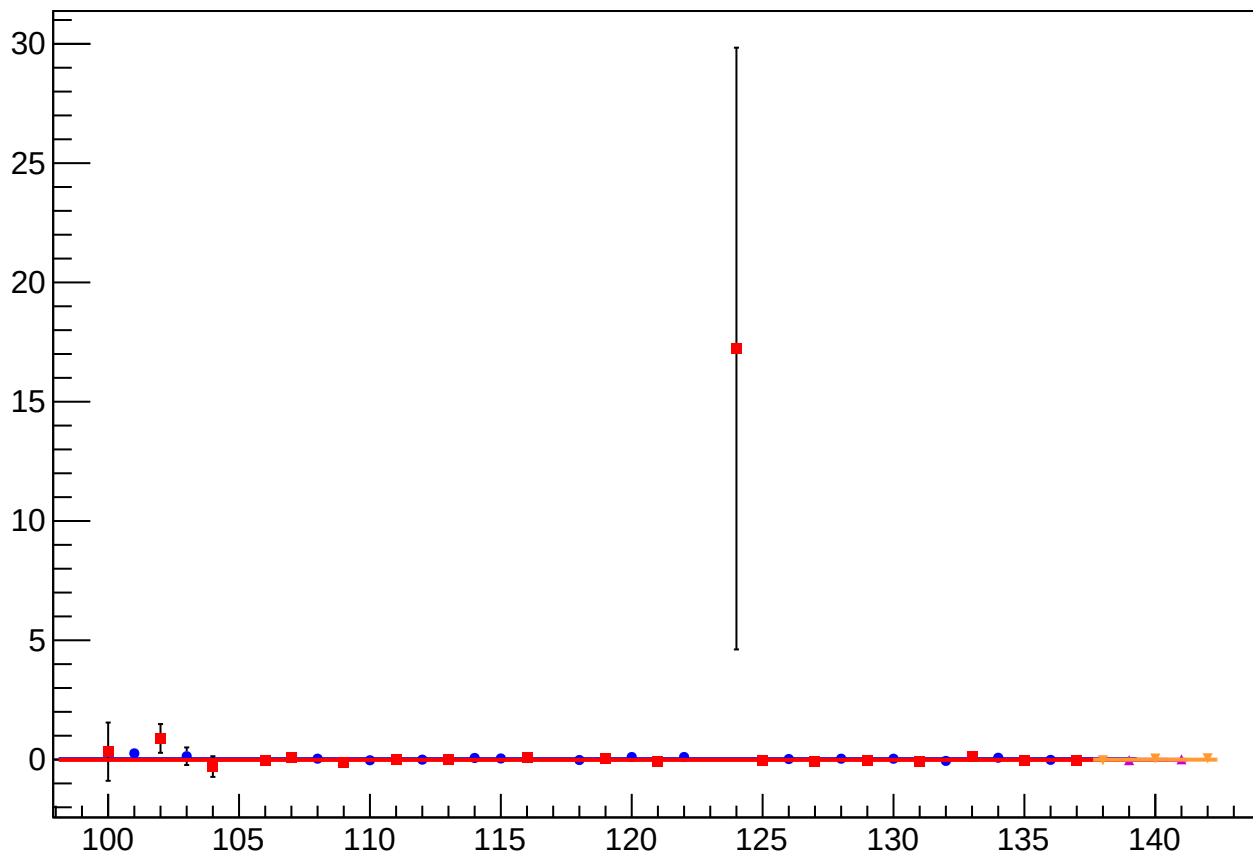
Right: 35.276+/-0.008 χ^2/NDF : 5182182.2/34

In: 33.448+/-0.009 χ^2/NDF : 2554549.3/17

Out: 32.734+/-0.009 χ^2/NDF : 3292157.9/21

All: 33.085+/-0.006 χ^2/NDF : 5849771.3/39

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 ± 0.015 $\chi^2/\text{NDF}: 11.5/15$

Left Out: -0.003 ± 0.022 $\chi^2/\text{NDF}: 2.7/2$

Right Out: -0.014 ± 0.016 $\chi^2/\text{NDF}: 16.0/18$

Left In: -0.013 ± 0.024 $\chi^2/\text{NDF}: 0.5/1$

Left: -0.008 ± 0.016 $\chi^2/\text{NDF}: 3.2/4$

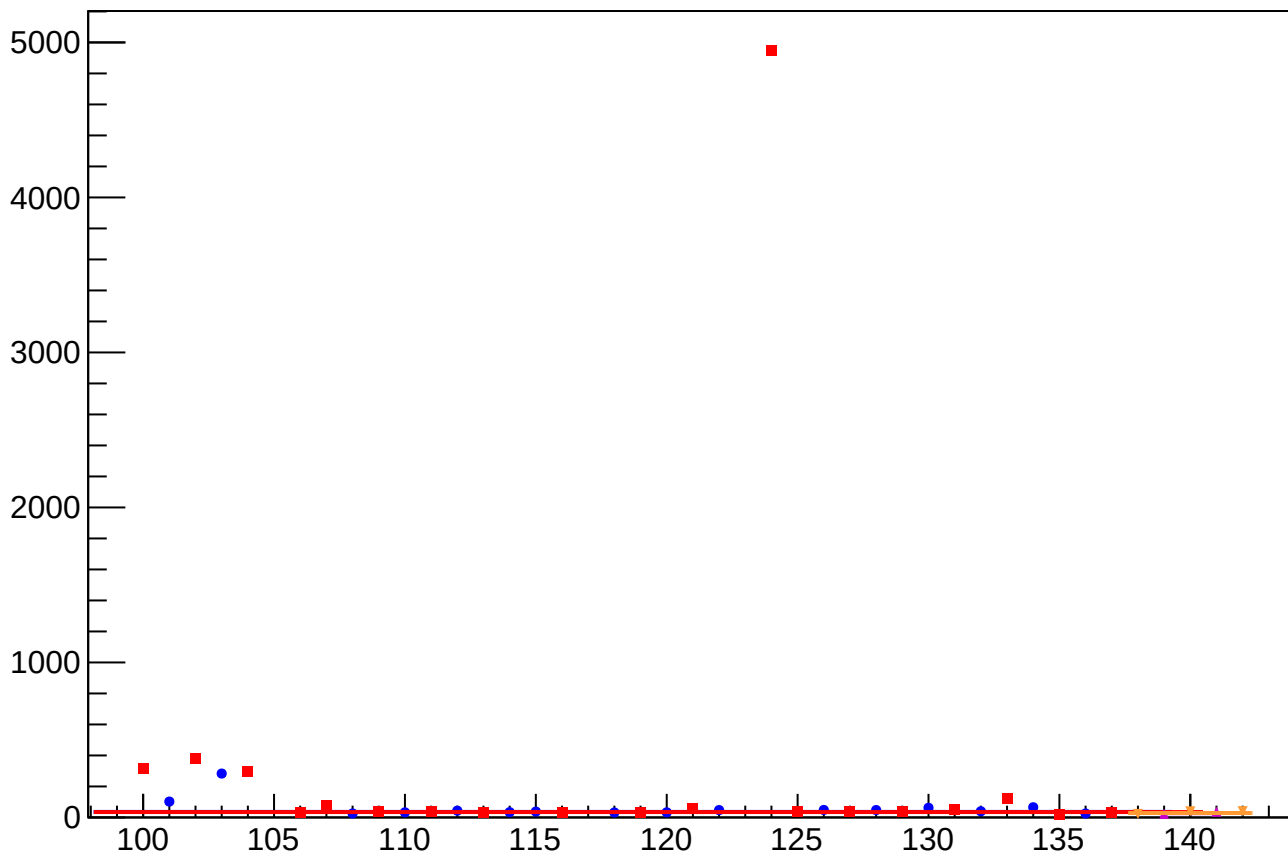
Right: 0.002 ± 0.011 $\chi^2/\text{NDF}: 29.4/34$

In: 0.008 ± 0.013 $\chi^2/\text{NDF}: 13.0/17$

Out: -0.010 ± 0.013 $\chi^2/\text{NDF}: 18.9/21$

All: -0.001 ± 0.009 $\chi^2/\text{NDF}: 32.9/39$

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.743+/-0.011 χ^2/NDF : 2264513.9/15

Left Out: 28.563+/-0.016 χ^2/NDF : 272748.3/2

Right Out: 34.798+/-0.011 χ^2/NDF : 2913962.5/18

Left In: 27.827+/-0.017 χ^2/NDF : 137739.1/1

Left: 28.226+/-0.012 χ^2/NDF : 411493.2/4

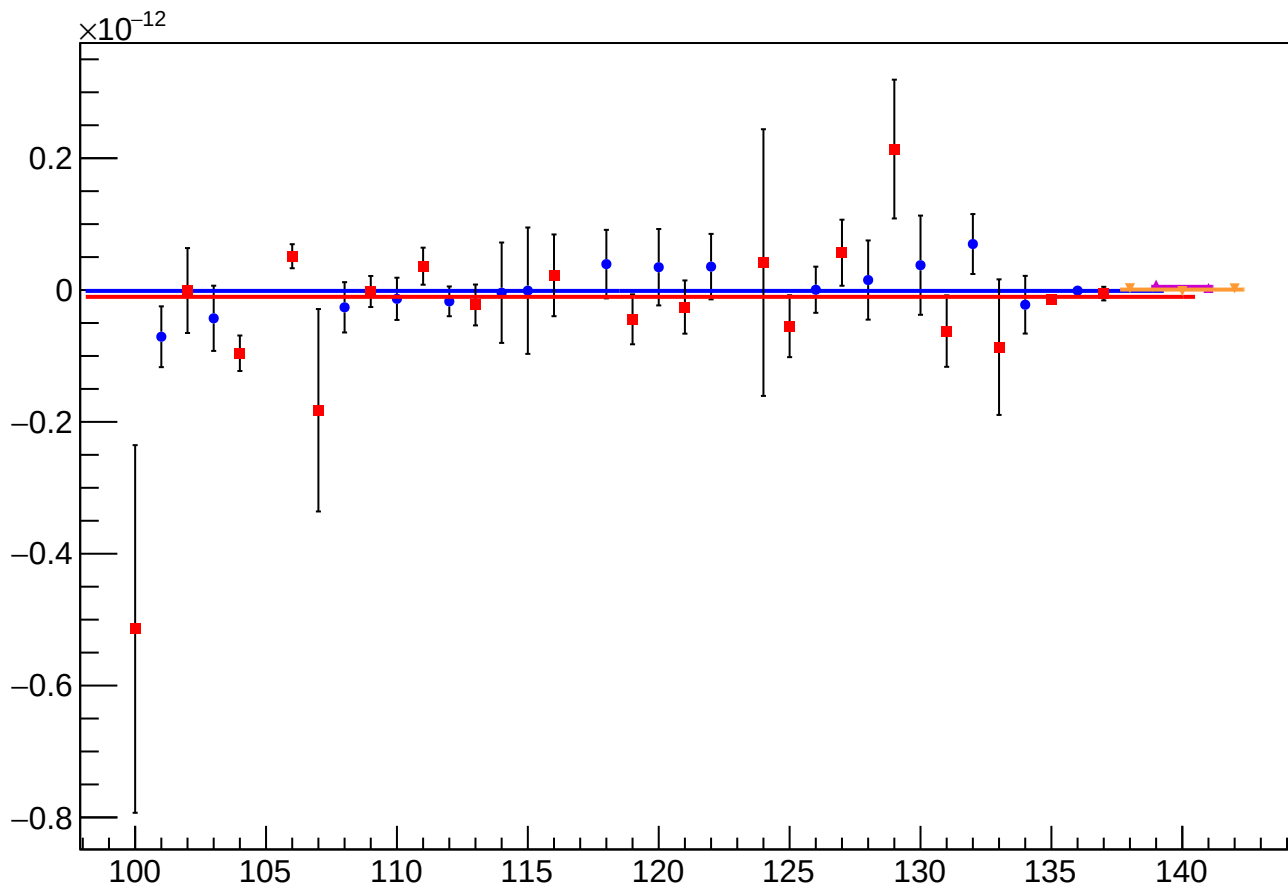
Right: 35.276+/-0.008 χ^2/NDF : 5182182.2/34

In: 33.448+/-0.009 χ^2/NDF : 2554549.3/17

Out: 32.734+/-0.009 χ^2/NDF : 3292157.9/21

All: 33.085+/-0.006 χ^2/NDF : 5849771.3/39

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 8.6/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.6/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 39.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.4/1

Left: 0.000 ± 0.000 χ^2/NDF : 1.7/4

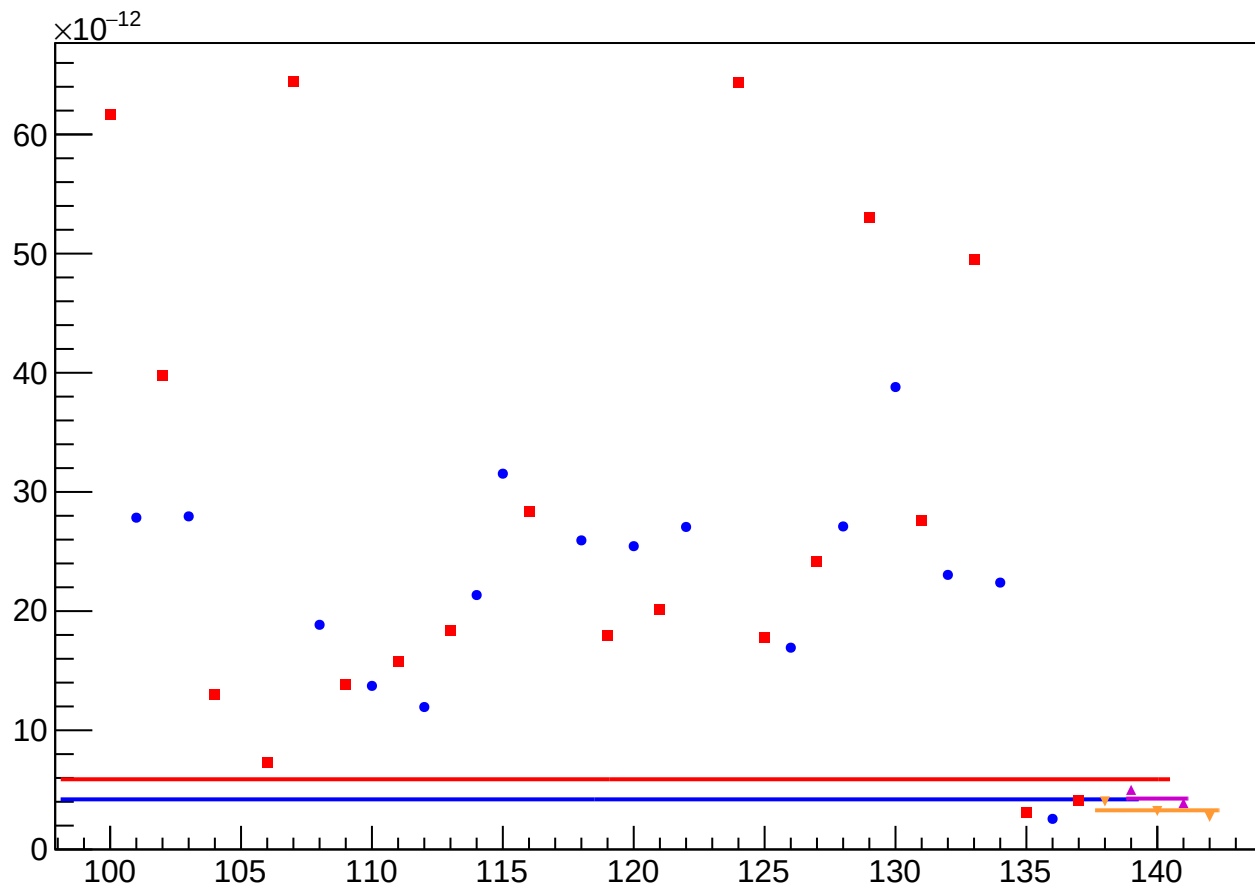
Right: -0.000 ± 0.000 χ^2/NDF : 51.3/34

In: 0.000 ± 0.000 χ^2/NDF : 10.4/17

Out: -0.000 ± 0.000 χ^2/NDF : 45.3/21

All: -0.000 ± 0.000 χ^2/NDF : 57.0/39

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5080225.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 60508.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4860861.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 36200.5/1

Left: 0.000+/-0.000 χ^2/NDF : 181313.4/4

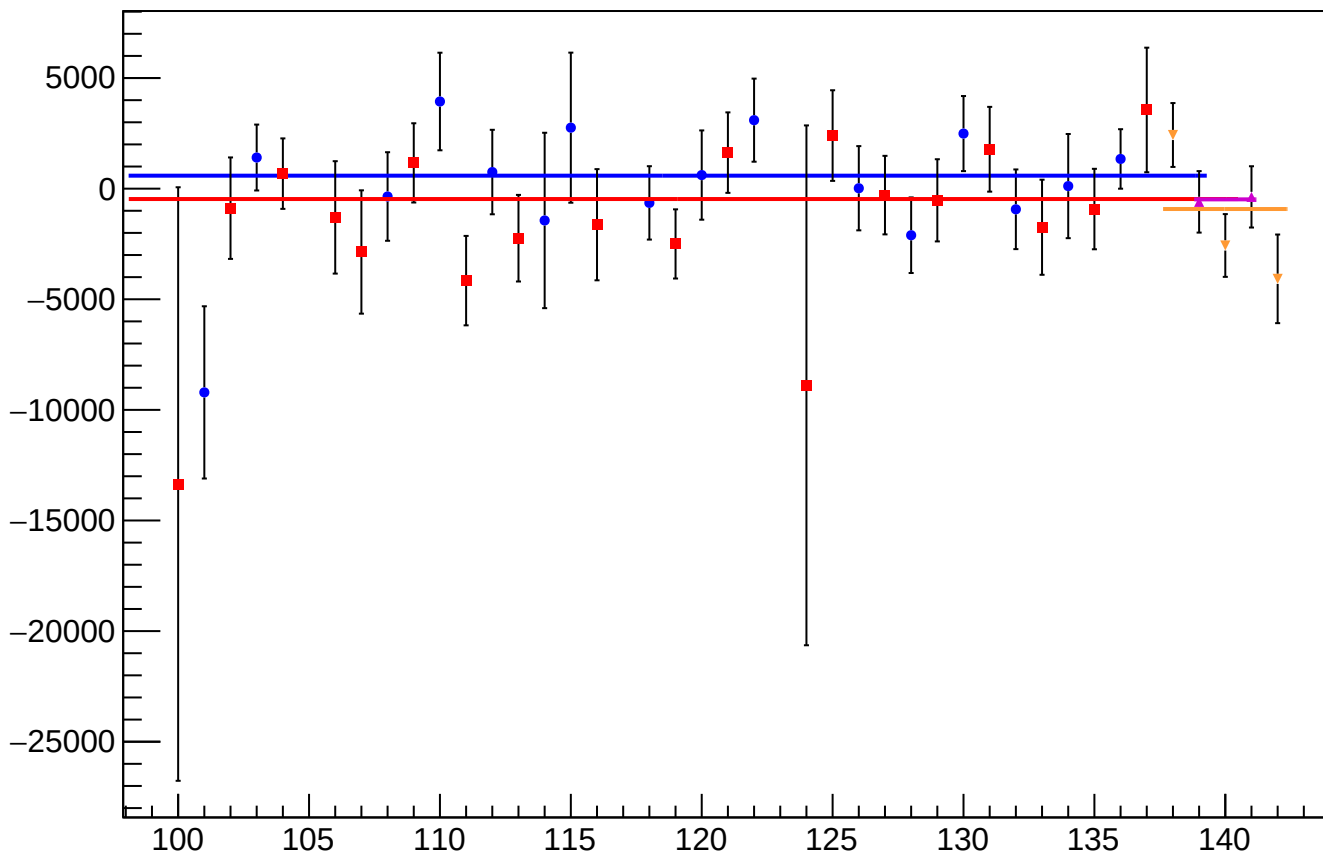
Right: 0.000+/-0.000 χ^2/NDF : 10135954.8/34

In: 0.000+/-0.000 χ^2/NDF : 5116743.1/17

Out: 0.000+/-0.000 χ^2/NDF : 5464403.5/21

All: 0.000+/-0.000 χ^2/NDF : 10585466.4/39

reg_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 586.935 $\pm$ 482.434 χ^2 /NDF: 17.1/15

Left Out: -920.488 $\pm$ 903.218 χ^2 /NDF:9.2/2

Right Out: -469.012 $\pm$ 480.516 χ^2 /NDF: 16.9/18

Left In: -483.916 $\pm$ 981.051 χ^2 /NDF:0.0/1

Left: -720.205 $\pm$ 664.486 χ^2 /NDF: 9.3/4

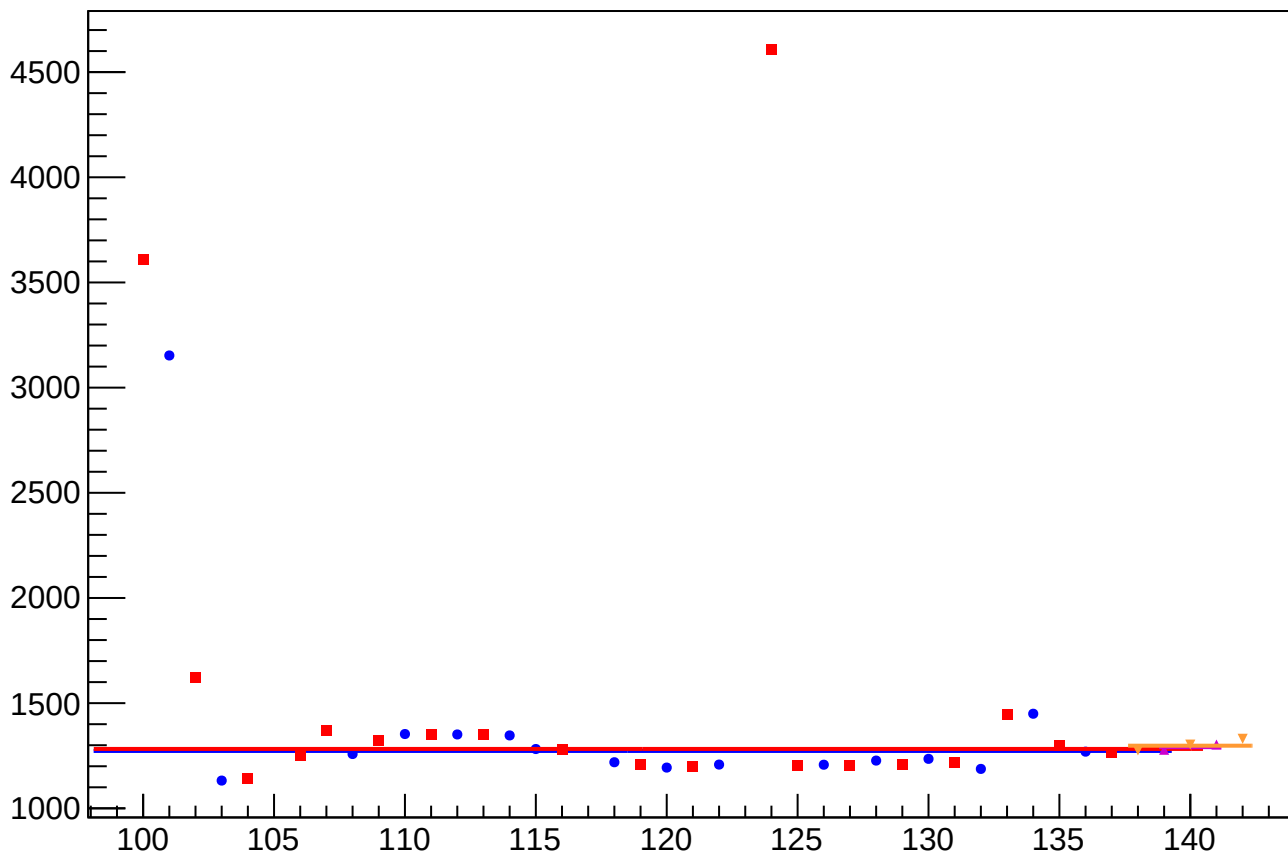
Right: 56.858 $\pm$ 340.452 χ^2 /NDF: 36.3/34

In: 378.407 $\pm$ 432.921 χ^2 /NDF:18.0/17

Out: -568.605 $\pm$ 424.218 χ^2 /NDF:26.3/21

All: -104.713 $\pm$ 302.998 χ^2 /NDF: 46.7/39

reg_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1272.804+/-0.341 χ^2/NDF : 519298.2/15

Left Out: 1297.744+/-0.639 χ^2/NDF :1041.7/2

Right Out: 1282.365+/-0.340 χ^2/NDF : 322078.6/18

Left In: 1290.901+/-0.694 χ^2/NDF :316.8/1

Left: 1294.605+/-0.470 χ^2/NDF : 1411.2/4

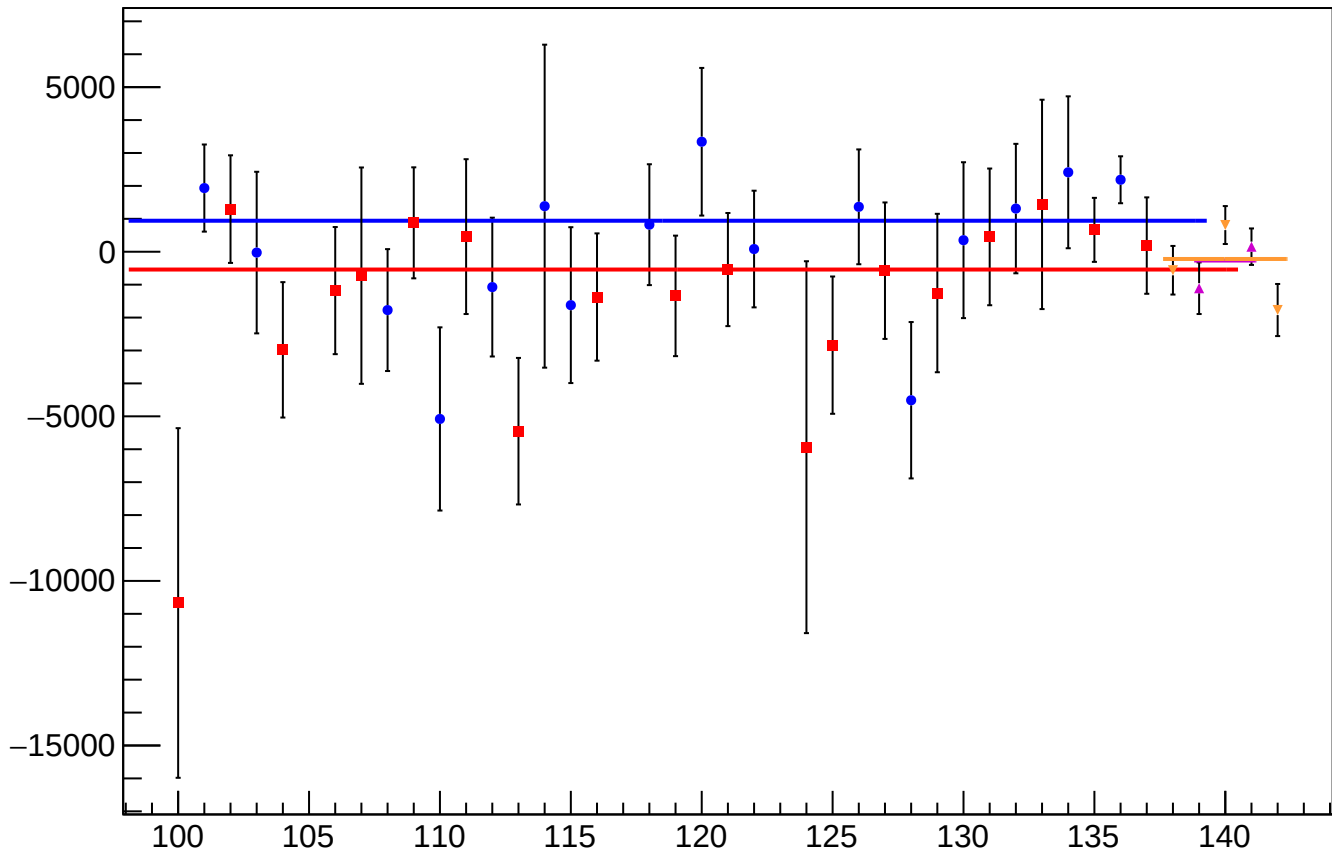
Right: 1277.604+/-0.241 χ^2/NDF : 841771.1/34

In: 1276.328+/-0.306 χ^2/NDF :520163.0/17

Out: 1285.757+/-0.300 χ^2/NDF :323572.2/21

All: 1281.139+/-0.214 χ^2/NDF : 844219.3/39

asym_at1_dd_at2_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: 941.759 ± 425.837 χ^2/NDF : 19.9/15

Left Out: -219.882 ± 394.048 χ^2/NDF : 7.3/2

Right Out: -540.622 ± 439.905 χ^2/NDF : 17.2/18

Left In: -266.801 ± 452.548 χ^2/NDF : 1.7/1

Left: -240.115 ± 297.179 χ^2/NDF : 9.0/4

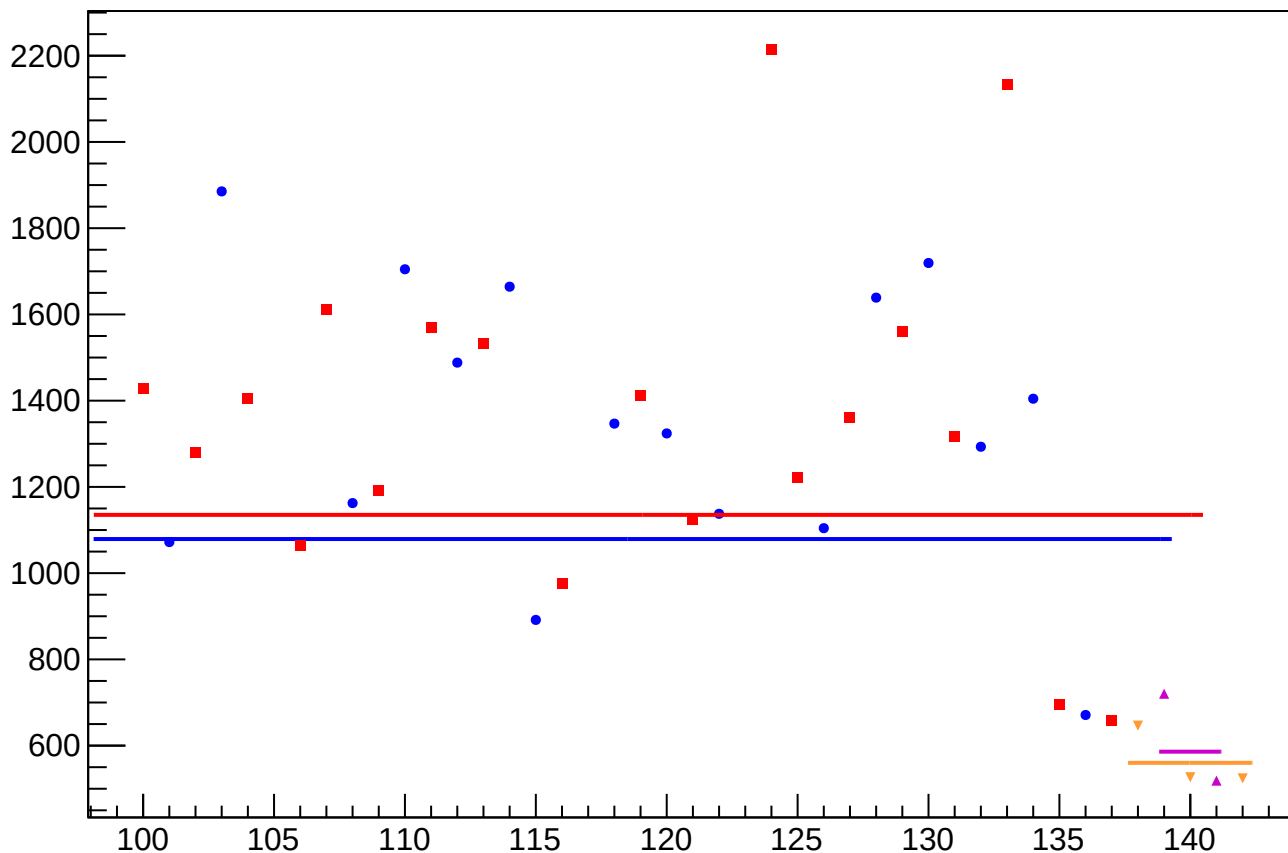
Right: 224.651 ± 305.965 χ^2/NDF : 42.9/34

In: 374.197 ± 310.125 χ^2/NDF : 25.4/17

Out: -362.669 ± 293.512 χ^2/NDF : 24.7/21

All: -14.500 ± 213.176 χ^2/NDF : 53.1/39

asym_at1_dd_at2_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1079.120+/-0.301 χ^2/NDF : 1482232.0/15

Left Out: 560.114+/-0.279 χ^2/NDF : 38188.8/2

Right Out: 1135.161+/-0.311 χ^2/NDF : 1293082.2/18

Left In: 585.978+/-0.320 χ^2/NDF : 88146.9/1

Left: 571.267+/-0.210 χ^2/NDF : 130051.5/4

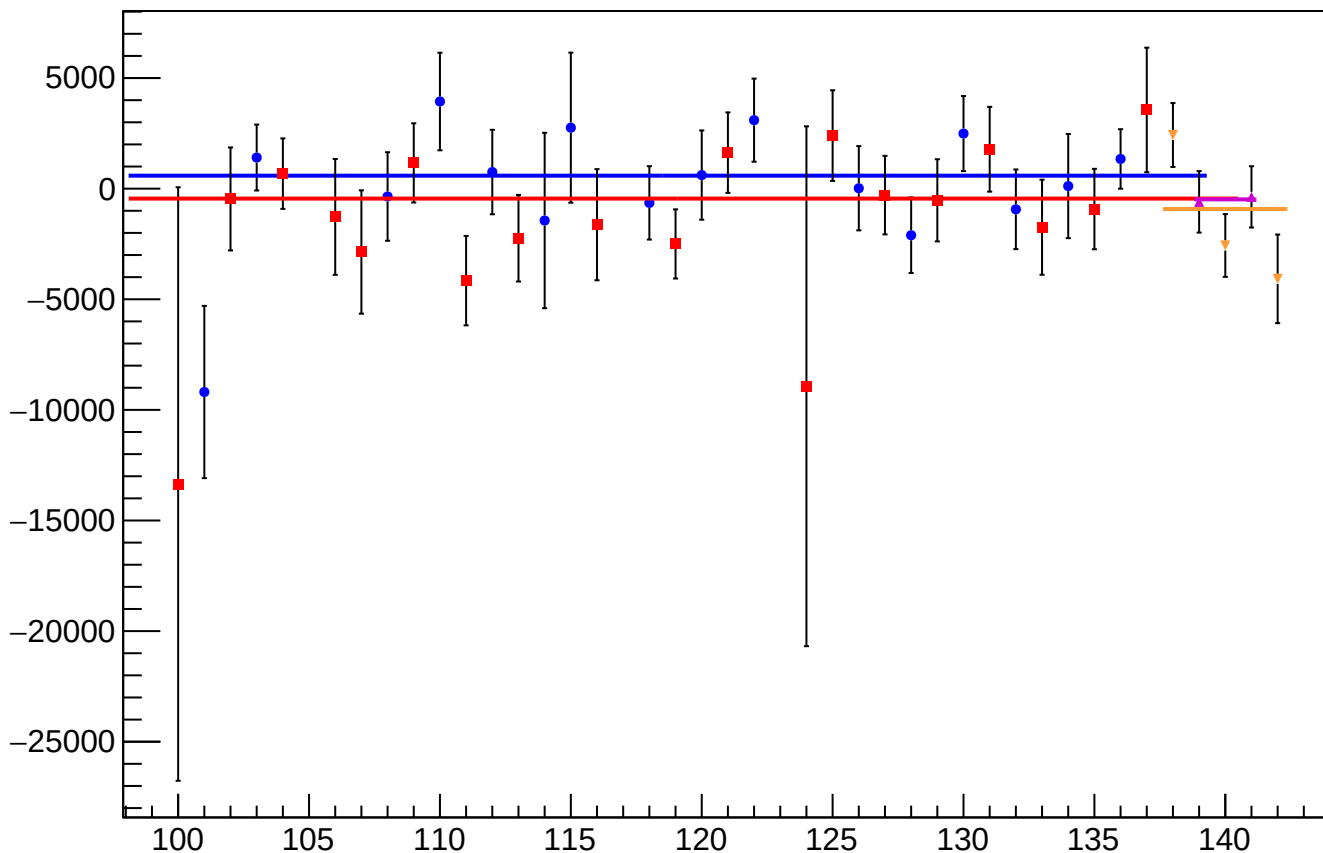
Right: 1106.230+/-0.216 χ^2/NDF : 2792070.7/34

In: 847.531+/-0.219 χ^2/NDF : 2829975.1/17

Out: 816.112+/-0.208 χ^2/NDF : 3227421.2/21

All: 830.958+/-0.151 χ^2/NDF : 6068224.8/39

cor_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 587.254+/-482.434 χ^2/NDF : 17.1/15

Left Out: -920.664+/-903.218 χ^2/NDF : 9.2/2

Right Out: -448.412+/-481.333 χ^2/NDF : 16.8/18

Left In: -483.795+/-981.051 χ^2/NDF : 0.0/1

Left: -720.244+/-664.486 χ^2/NDF : 9.3/4

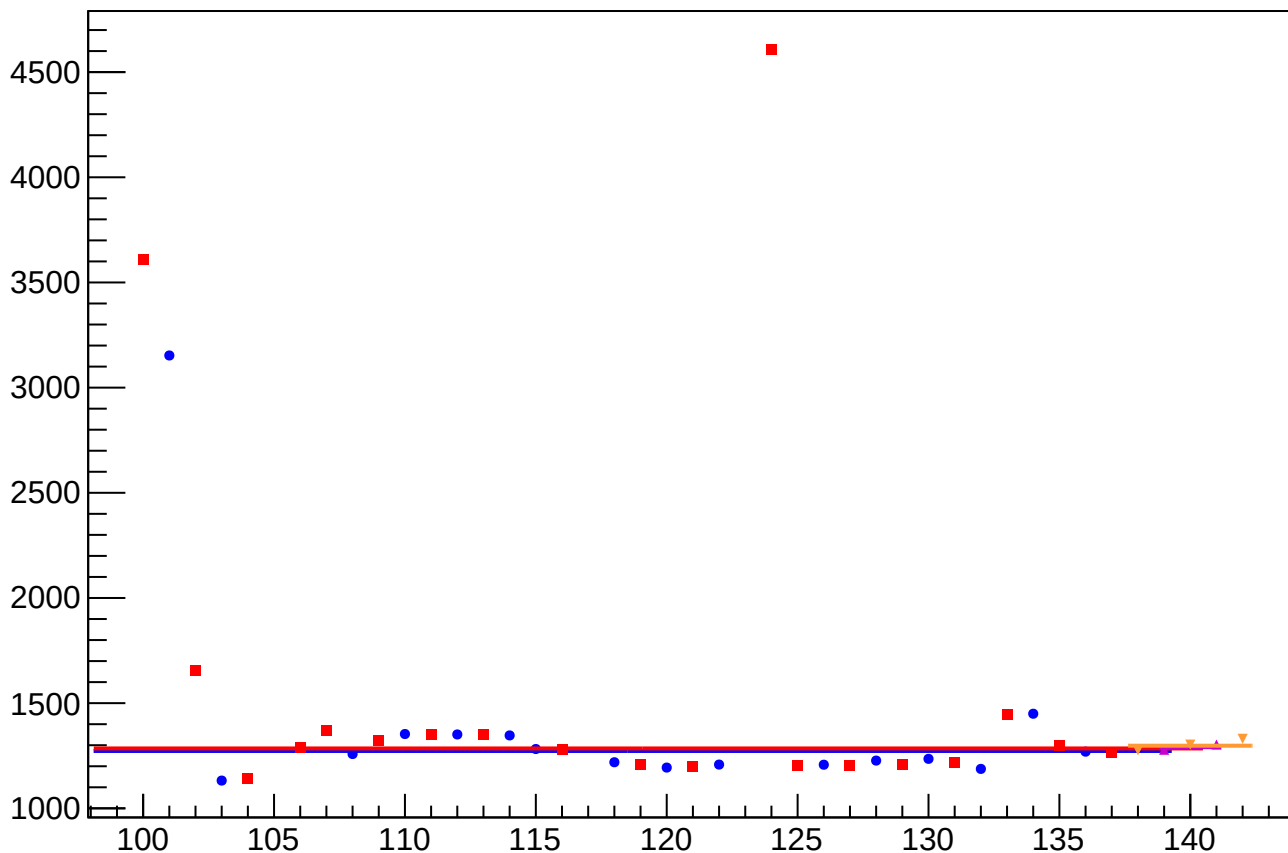
Right: 68.238+/-340.742 χ^2/NDF : 36.2/34

In: 378.688+/-432.921 χ^2/NDF : 18.0/17

Out: -552.864+/-424.780 χ^2/NDF : 26.2/21

All: -95.928+/-303.202 χ^2/NDF : 46.6/39

cor_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1272.804+/-0.341 χ^2/NDF : 519299.6/15

Left Out: 1297.744+/-0.639 χ^2/NDF : 1041.7/2

Right Out: 1284.654+/-0.340 χ^2/NDF : 328734.9/18

Left In: 1290.901+/-0.694 χ^2/NDF : 316.8/1

Left: 1294.605+/-0.470 χ^2/NDF : 1411.2/4

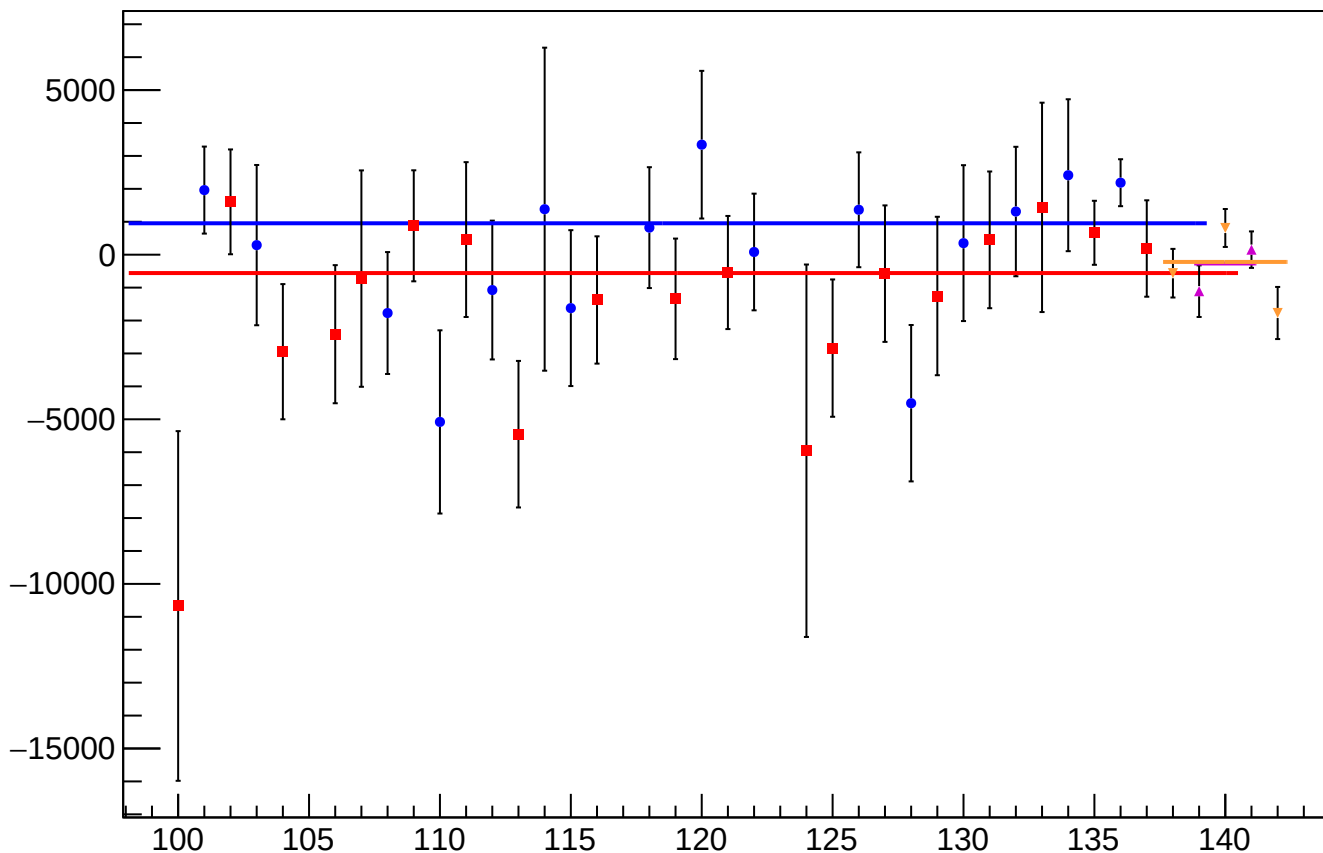
Right: 1278.743+/-0.241 χ^2/NDF : 848639.3/34

In: 1276.328+/-0.306 χ^2/NDF : 520164.5/17

Out: 1287.549+/-0.300 χ^2/NDF : 330103.8/21

All: 1282.045+/-0.214 χ^2/NDF : 850952.8/39

asym_at1_dd_at2_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: 954.146 $\pm$ 425.660 χ^2 /NDF: 19.9/15

Left Out: -219.841 $\pm$ 394.062 χ^2 /NDF:7.3/2

Right Out: -557.935 $\pm$ 440.758 χ^2 /NDF: 18.4/18

Left In: -266.941 $\pm$ 452.536 χ^2 /NDF:1.7/1

Left: -240.153 $\pm$ 297.182 χ^2 /NDF: 9.0/4

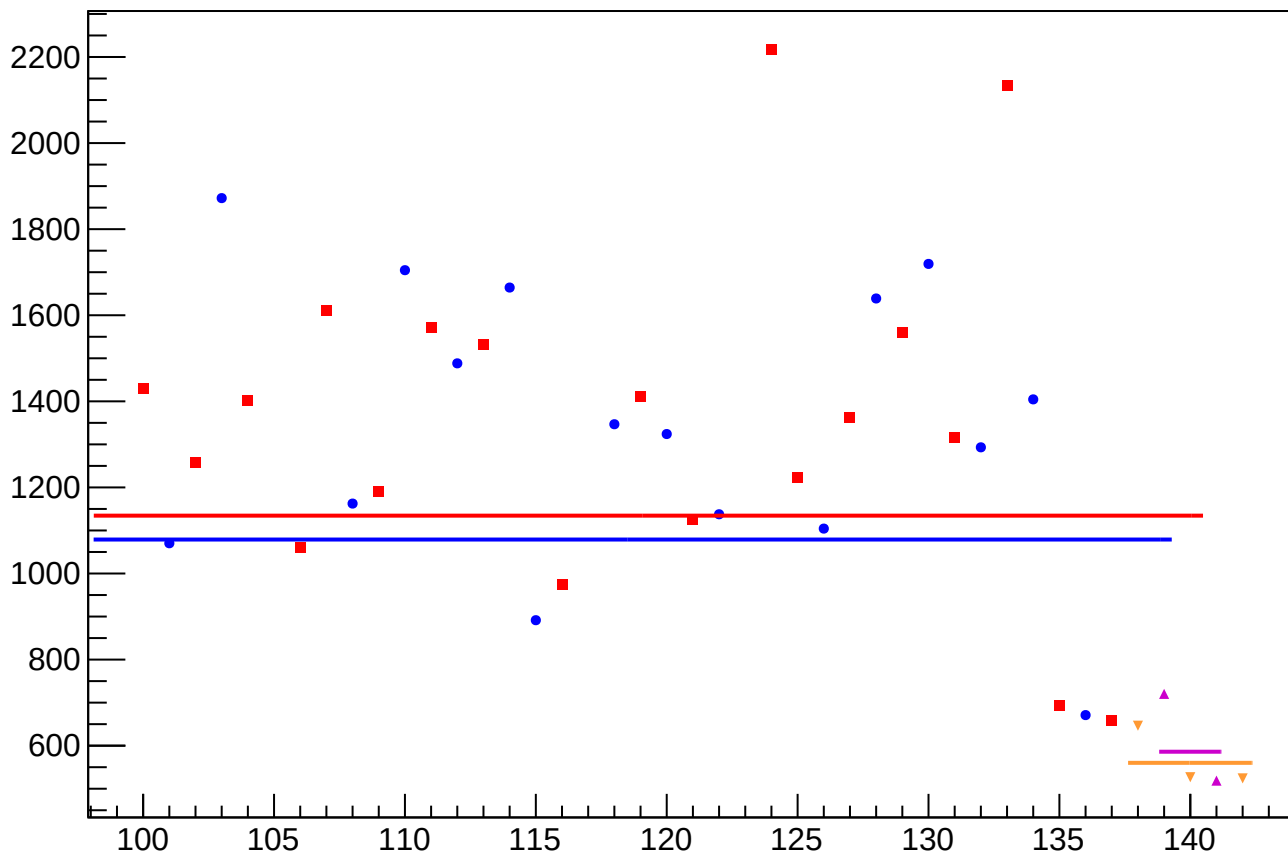
Right: 224.446 $\pm$ 306.186 χ^2 /NDF: 44.3/34

In: 380.937 $\pm$ 310.053 χ^2 /NDF:25.4/17

Out: -370.036 $\pm$ 293.771 χ^2 /NDF:26.0/21

All: -14.785 $\pm$ 213.251 χ^2 /NDF: 54.5/39

asym_at1_dd_at2_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1078.932 $\pm$ 0.301 χ^2 /NDF: 1478719.9/15

Left Out: 560.135 $\pm$ 0.279 χ^2 /NDF: 38168.8/2

Right Out: 1134.428 $\pm$ 0.312 χ^2 /NDF: 1288899.2/18

Left In: 585.960 $\pm$ 0.320 χ^2 /NDF: 88162.4/1

Left: 571.272 $\pm$ 0.210 χ^2 /NDF: 130035.7/4

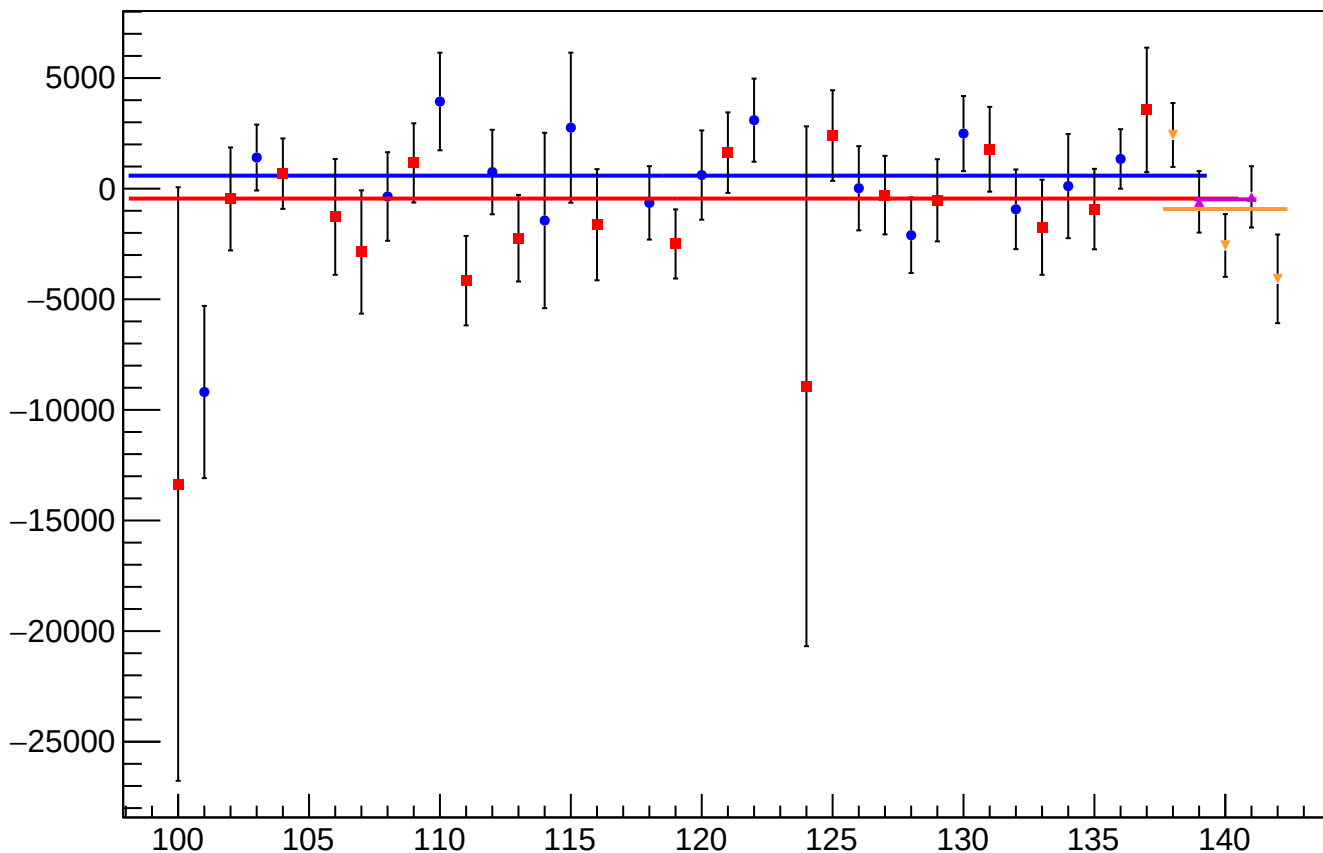
Right: 1105.713 $\pm$ 0.217 χ^2 /NDF: 2784024.9/34

In: 847.518 $\pm$ 0.219 χ^2 /NDF: 2826137.7/17

Out: 815.258 $\pm$ 0.208 χ^2 /NDF: 3214124.7/21

All: 830.519 $\pm$ 0.151 χ^2 /NDF: 6051671.6/39

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 587.254+/-482.434 χ^2/NDF : 17.1/15

Left Out: -920.664+/-903.218 χ^2/NDF : 9.2/2

Right Out: -448.412+/-481.333 χ^2/NDF : 16.8/18

Left In: -483.795+/-981.051 χ^2/NDF : 0.0/1

Left: -720.244+/-664.486 χ^2/NDF : 9.3/4

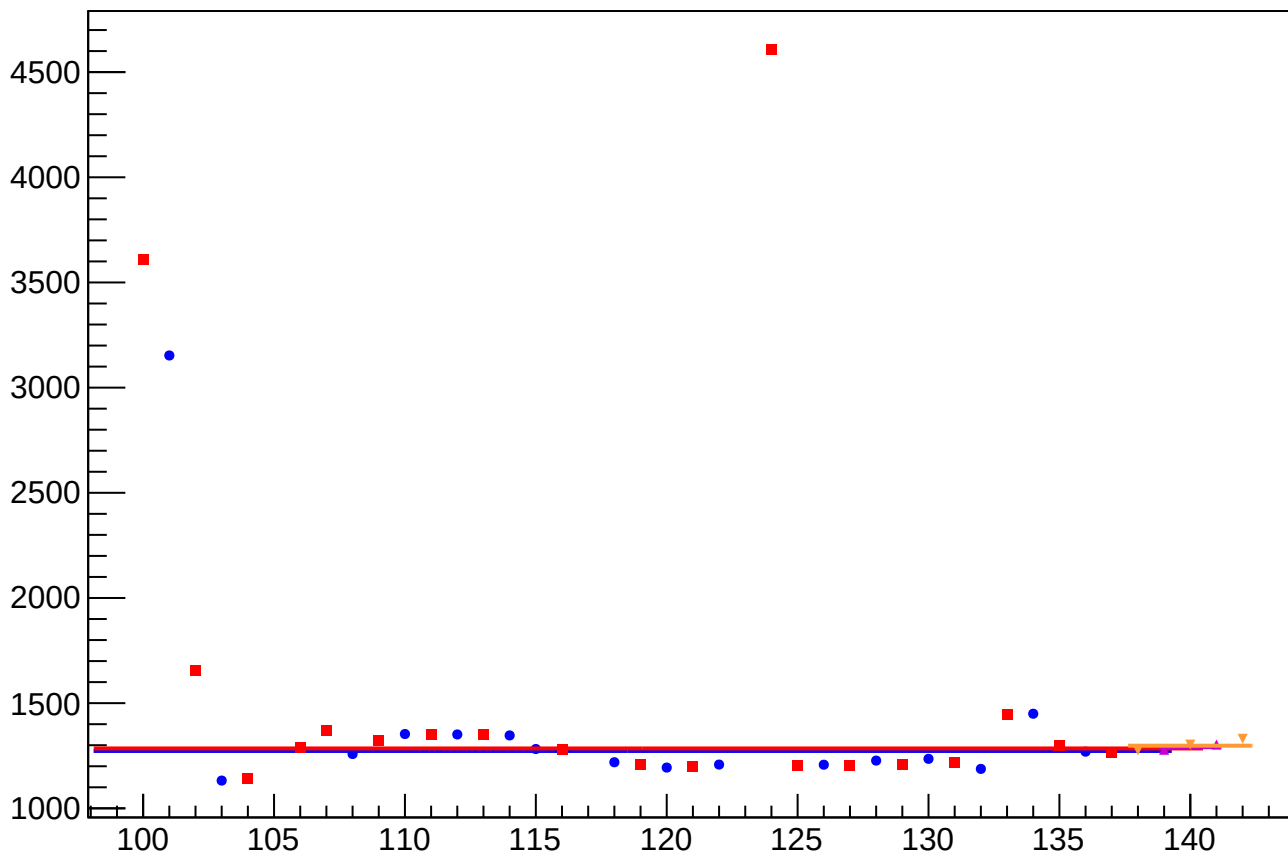
Right: 68.238+/-340.742 χ^2/NDF : 36.2/34

In: 378.688+/-432.921 χ^2/NDF : 18.0/17

Out: -552.864+/-424.780 χ^2/NDF : 26.2/21

All: -95.928+/-303.202 χ^2/NDF : 46.6/39

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1272.804+/-0.341 χ^2/NDF : 519299.6/15

Left Out: 1297.744+/-0.639 χ^2/NDF : 1041.7/2

Right Out: 1284.654+/-0.340 χ^2/NDF : 328734.9/18

Left In: 1290.901+/-0.694 χ^2/NDF : 316.8/1

Left: 1294.605+/-0.470 χ^2/NDF : 1411.2/4

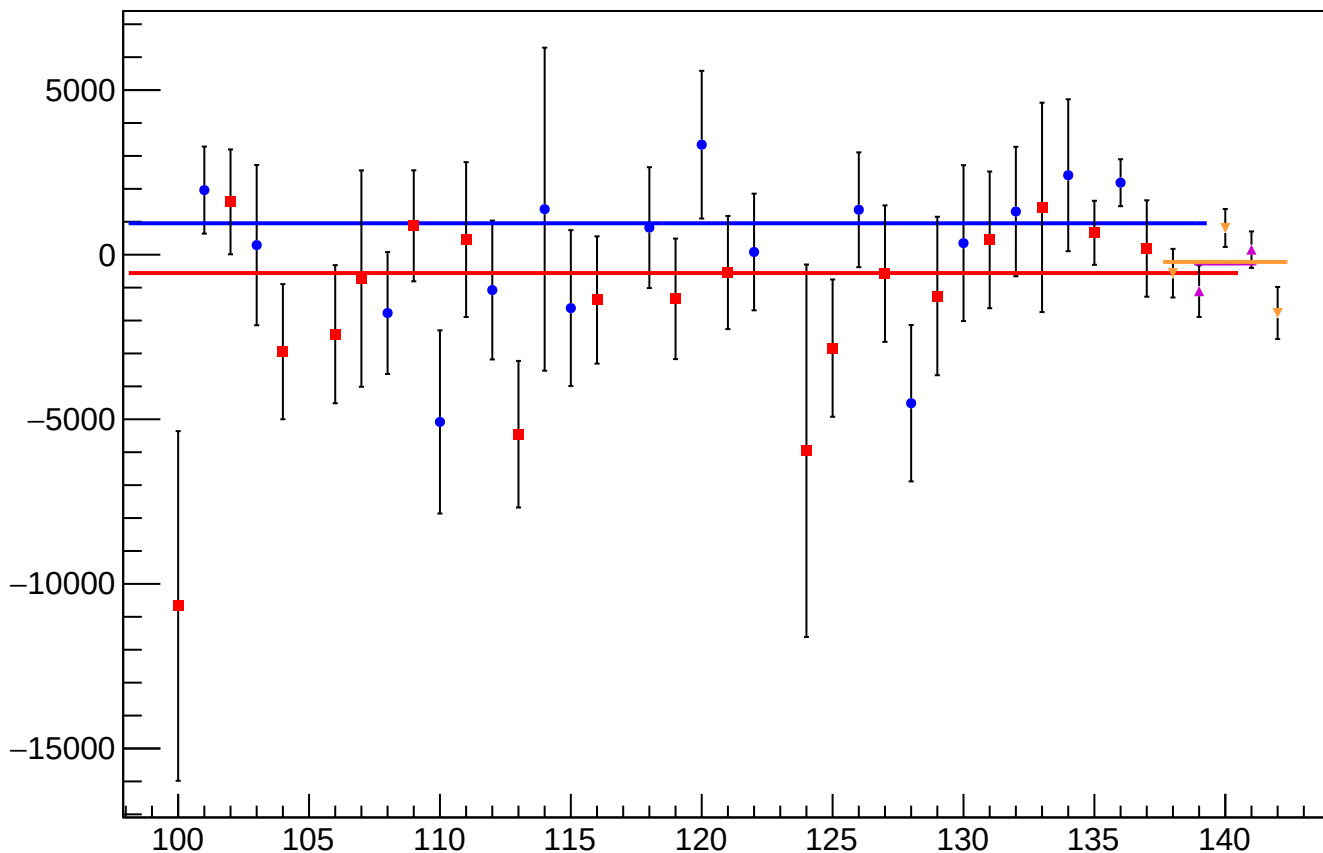
Right: 1278.743+/-0.241 χ^2/NDF : 848639.3/34

In: 1276.328+/-0.306 χ^2/NDF : 520164.5/17

Out: 1287.549+/-0.300 χ^2/NDF : 330103.8/21

All: 1282.045+/-0.214 χ^2/NDF : 850952.8/39

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 954.146 $\pm$ 425.660 χ^2 /NDF: 19.9/15

Left Out: -219.841 $\pm$ 394.062 χ^2 /NDF:7.3/2

Right Out: -557.935 $\pm$ 440.758 χ^2 /NDF: 18.4/18

Left In: -266.941 $\pm$ 452.536 χ^2 /NDF:1.7/1

Left: -240.153 $\pm$ 297.182 χ^2 /NDF: 9.0/4

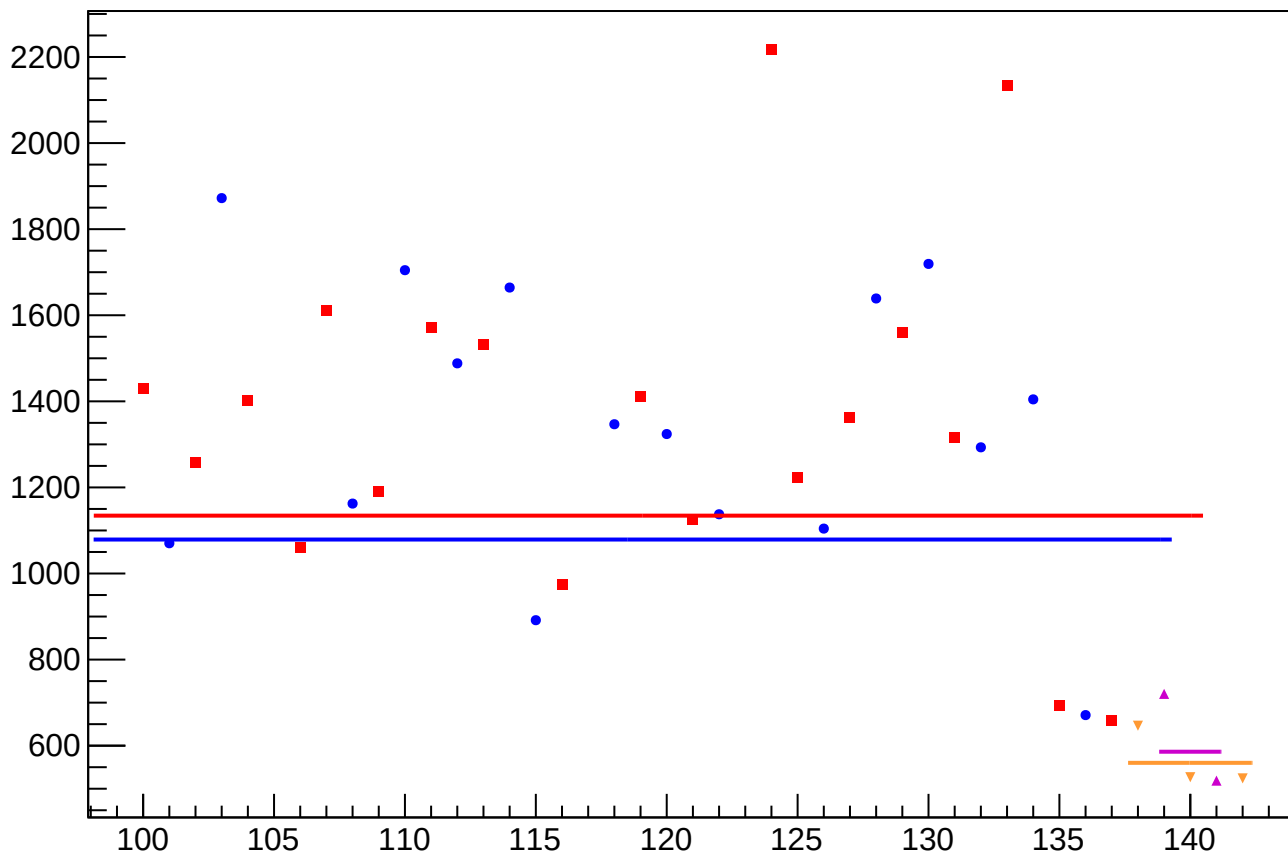
Right: 224.446 $\pm$ 306.186 χ^2 /NDF: 44.3/34

In: 380.937 $\pm$ 310.053 χ^2 /NDF:25.4/17

Out: -370.036 $\pm$ 293.771 χ^2 /NDF:26.0/21

All: -14.785 $\pm$ 213.251 χ^2 /NDF: 54.5/39

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1078.932+/-0.301 χ^2/NDF : 1478719.9/15

Left Out: 560.135+/-0.279 χ^2/NDF : 38168.8/2

Right Out: 1134.428+/-0.312 χ^2/NDF : 1288899.2/18

Left In: 585.960+/-0.320 χ^2/NDF : 88162.4/1

Left: 571.272+/-0.210 χ^2/NDF : 130035.7/4

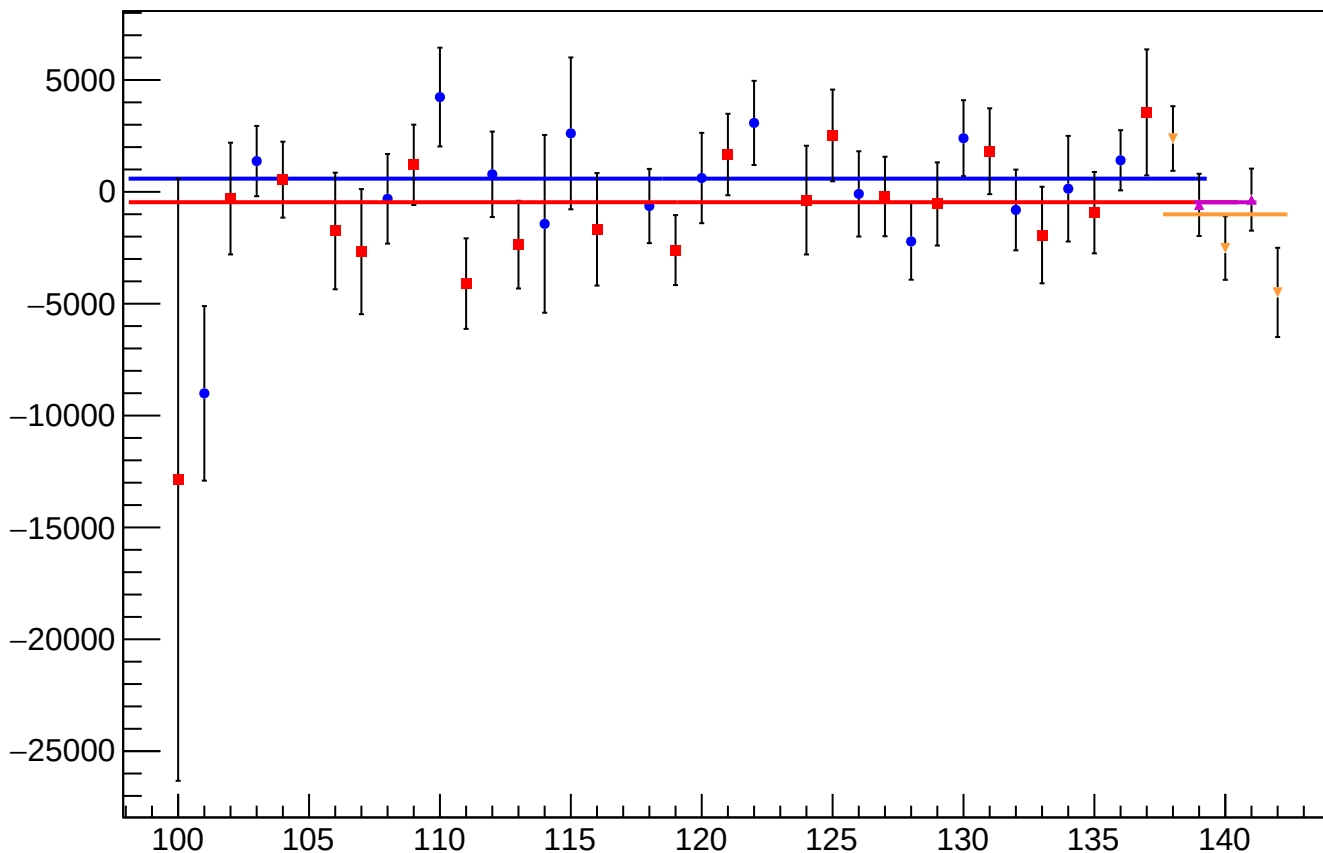
Right: 1105.713+/-0.217 χ^2/NDF : 2784024.9/34

In: 847.518+/-0.219 χ^2/NDF : 2826137.7/17

Out: 815.258+/-0.208 χ^2/NDF : 3214124.7/21

All: 830.519+/-0.151 χ^2/NDF : 6051671.6/39

dit_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 590.322 $\pm$ 485.483 χ^2 /NDF: 17.1/15

Left Out: -1005.111 $\pm$ 902.868 χ^2 /NDF:9.7/2

Right Out: -462.606 $\pm$ 476.795 χ^2 /NDF: 16.7/18

Left In: -465.013 $\pm$ 981.815 χ^2 /NDF:0.0/1

Left: -757.646 $\pm$ 664.584 χ^2 /NDF: 9.9/4

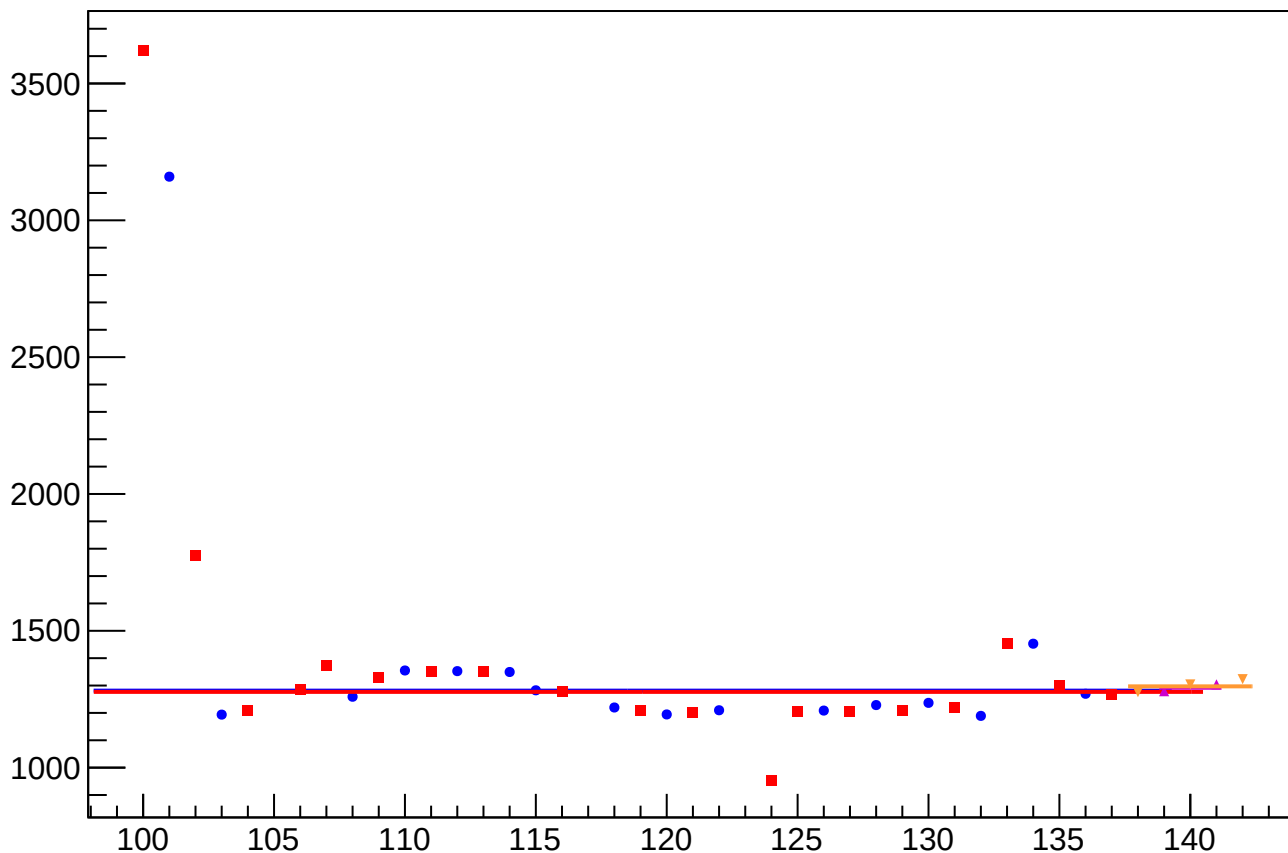
Right: 54.353 $\pm$ 340.175 χ^2 /NDF: 36.2/34

In: 382.983 $\pm$ 435.186 χ^2 /NDF:18.1/17

Out: -580.907 $\pm$ 421.616 χ^2 /NDF:26.7/21

All: -114.225 $\pm$ 302.811 χ^2 /NDF: 47.3/39

dit_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1281.369+/-0.343 χ^2/NDF : 507078.4/15

Left Out: 1297.012+/-0.638 χ^2/NDF : 823.7/2

Right Out: 1276.860+/-0.337 χ^2/NDF : 220513.6/18

Left In: 1291.897+/-0.694 χ^2/NDF : 329.8/1

Left: 1294.669+/-0.470 χ^2/NDF : 1182.9/4

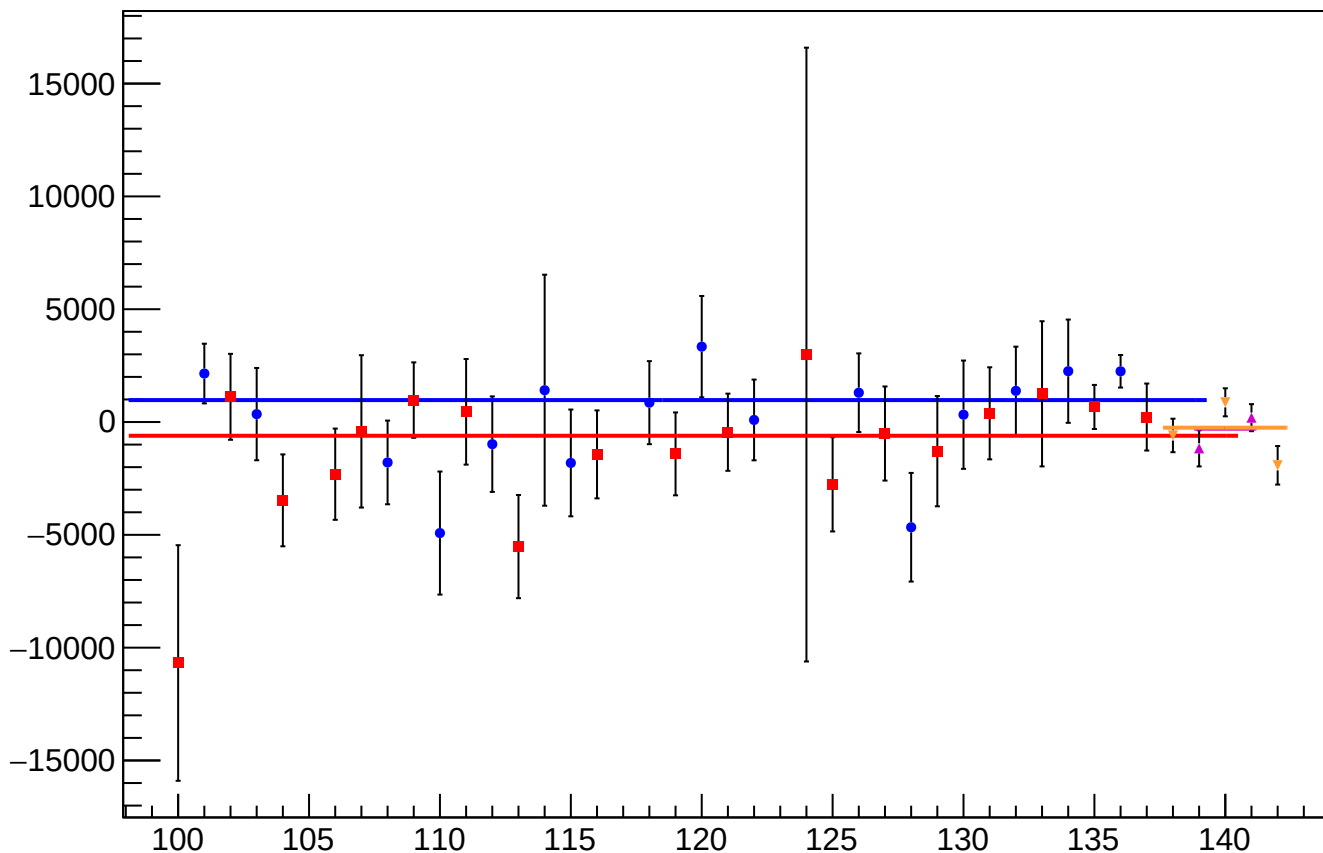
Right: 1279.074+/-0.241 χ^2/NDF : 727679.9/34

In: 1283.437+/-0.308 χ^2/NDF : 507593.0/17

Out: 1281.255+/-0.298 χ^2/NDF : 222116.5/21

All: 1282.311+/-0.214 χ^2/NDF : 729735.4/39

asym_at1_dd_at2_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: 972.287 ± 425.219 χ^2/NDF : 20.4/15

Left Out: -250.766 ± 416.185 χ^2/NDF : 7.3/2

Right Out: -608.431 ± 447.734 χ^2/NDF : 17.1/18

Left In: -294.204 ± 479.501 χ^2/NDF : 1.9/1

Left: -269.430 ± 314.306 χ^2/NDF : 9.2/4

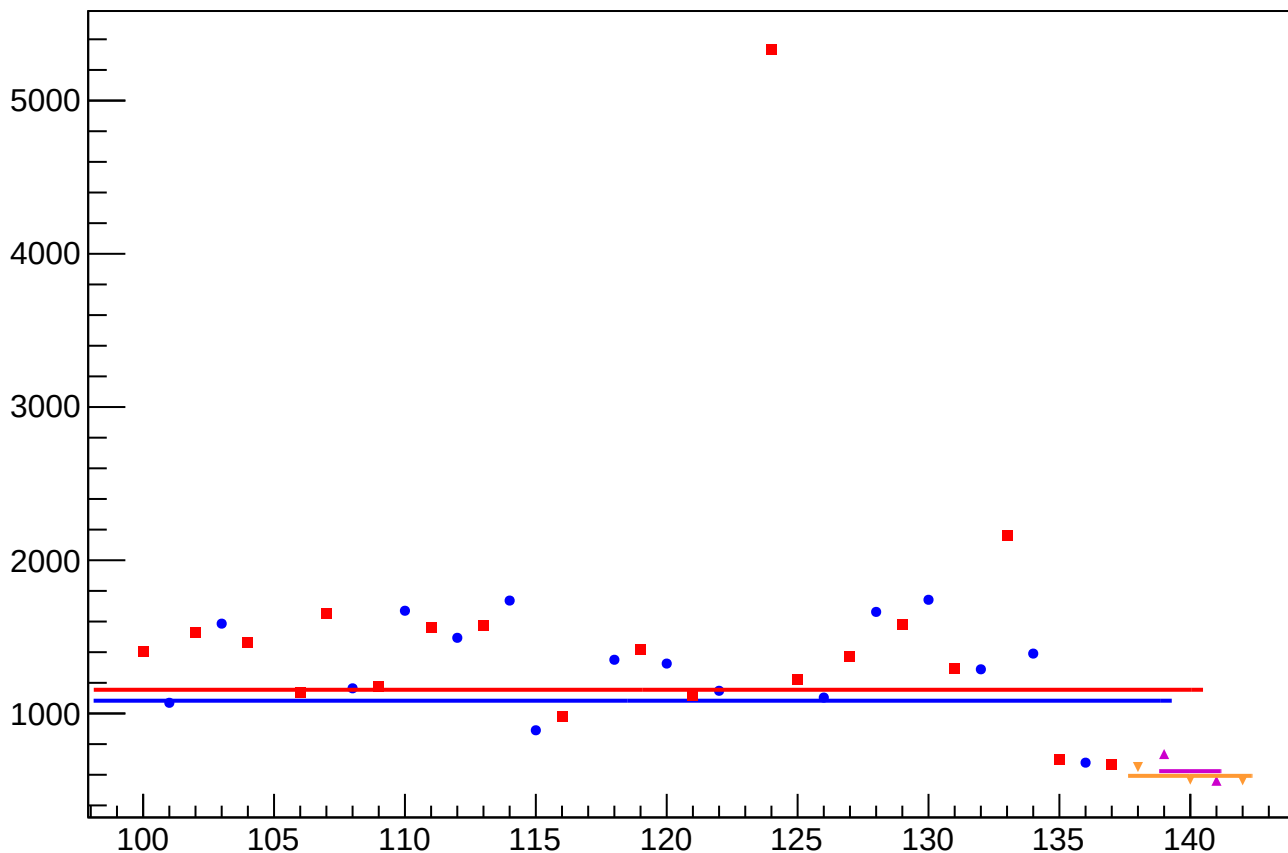
Right: 222.671 ± 308.328 χ^2/NDF : 44.1/34

In: 414.757 ± 318.143 χ^2/NDF : 26.2/17

Out: -416.555 ± 304.831 χ^2/NDF : 24.8/21

All: -18.654 ± 220.104 χ^2/NDF : 54.5/39

asym_at1_dd_at2_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1083.335+/-0.301 χ^2/NDF : 1360153.3/15

Left Out: 592.948+/-0.294 χ^2/NDF : 17484.5/2

Right Out: 1154.724+/-0.317 χ^2/NDF : 1488304.5/18

Left In: 623.559+/-0.339 χ^2/NDF : 60772.0/1

Left: 606.101+/-0.222 χ^2/NDF : 82905.1/4

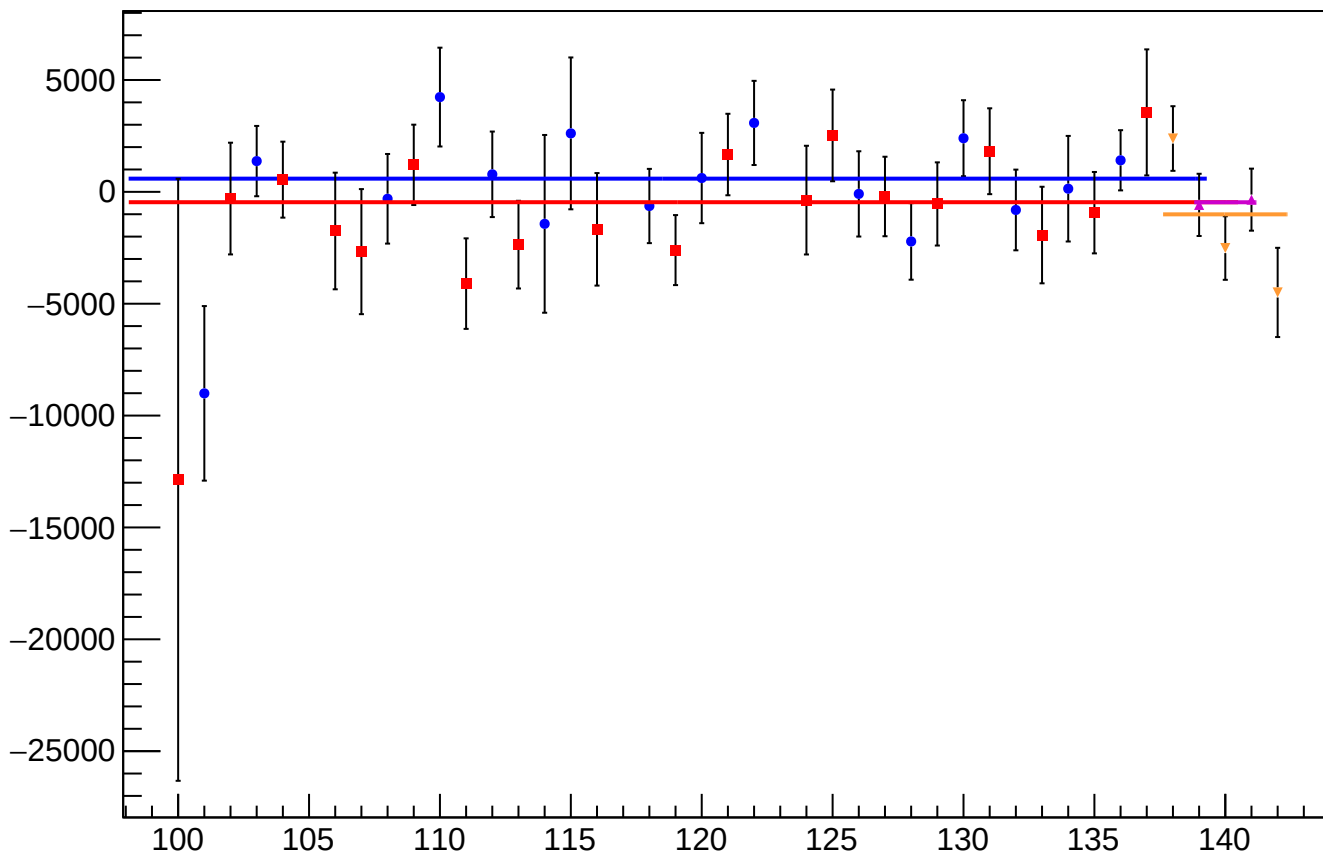
Right: 1117.189+/-0.218 χ^2/NDF : 2875191.7/34

In: 880.934+/-0.225 χ^2/NDF : 2450276.3/17

Out: 853.349+/-0.216 χ^2/NDF : 3194911.2/21

All: 866.552+/-0.156 χ^2/NDF : 5653026.8/39

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 590.323+/-485.483 χ^2/NDF : 17.1/15

Left Out: -1005.117+/-902.868 χ^2/NDF : 9.7/2

Right Out: -462.605+/-476.795 χ^2/NDF : 16.7/18

Left In: -465.021+/-981.815 χ^2/NDF : 0.0/1

Left: -757.653+/-664.584 χ^2/NDF : 9.9/4

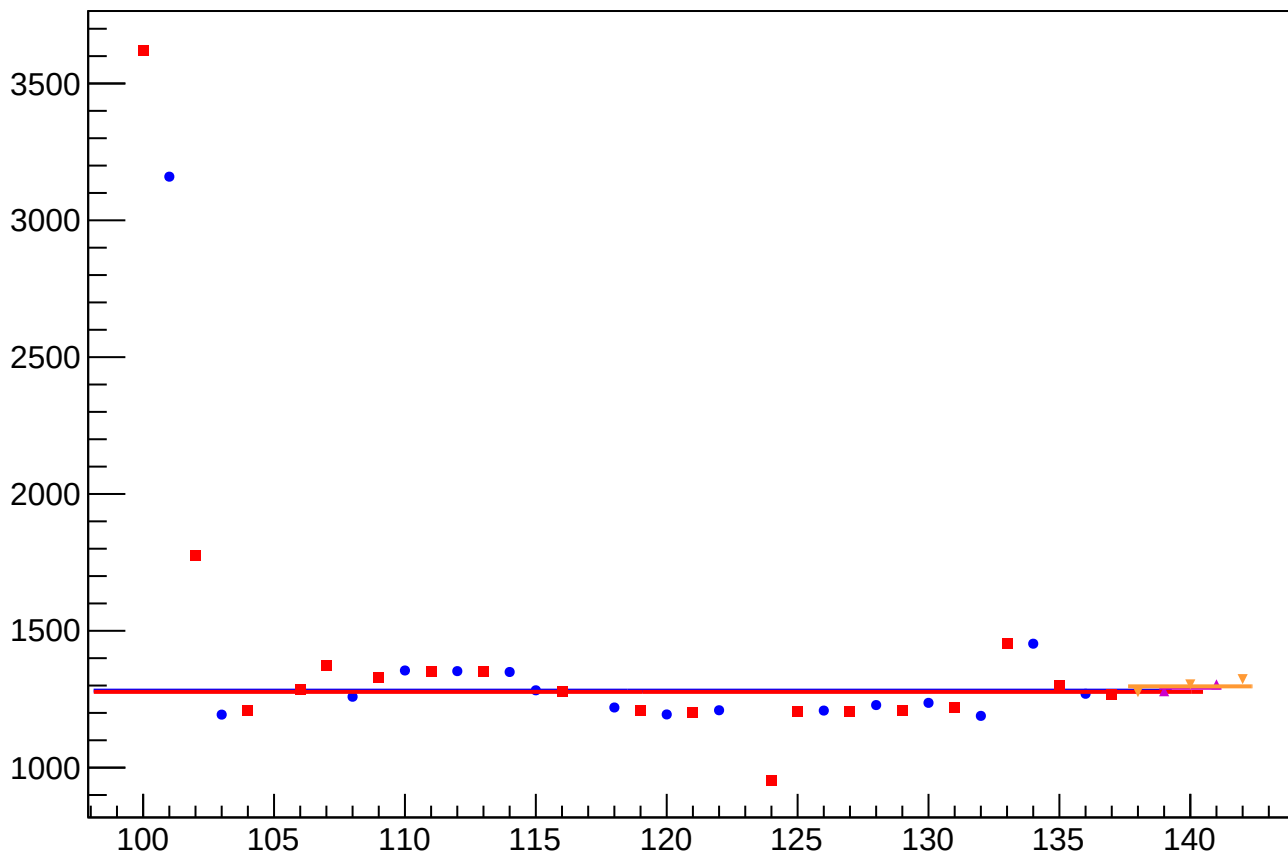
Right: 54.354+/-340.175 χ^2/NDF : 36.2/34

In: 382.982+/-435.186 χ^2/NDF : 18.1/17

Out: -580.908+/-421.616 χ^2/NDF : 26.7/21

All: -114.225+/-302.811 χ^2/NDF : 47.3/39

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1281.369+/-0.343 χ^2/NDF : 507078.6/15

Left Out: 1297.012+/-0.638 χ^2/NDF : 823.7/2

Right Out: 1276.860+/-0.337 χ^2/NDF : 220513.5/18

Left In: 1291.898+/-0.694 χ^2/NDF : 329.8/1

Left: 1294.669+/-0.470 χ^2/NDF : 1182.9/4

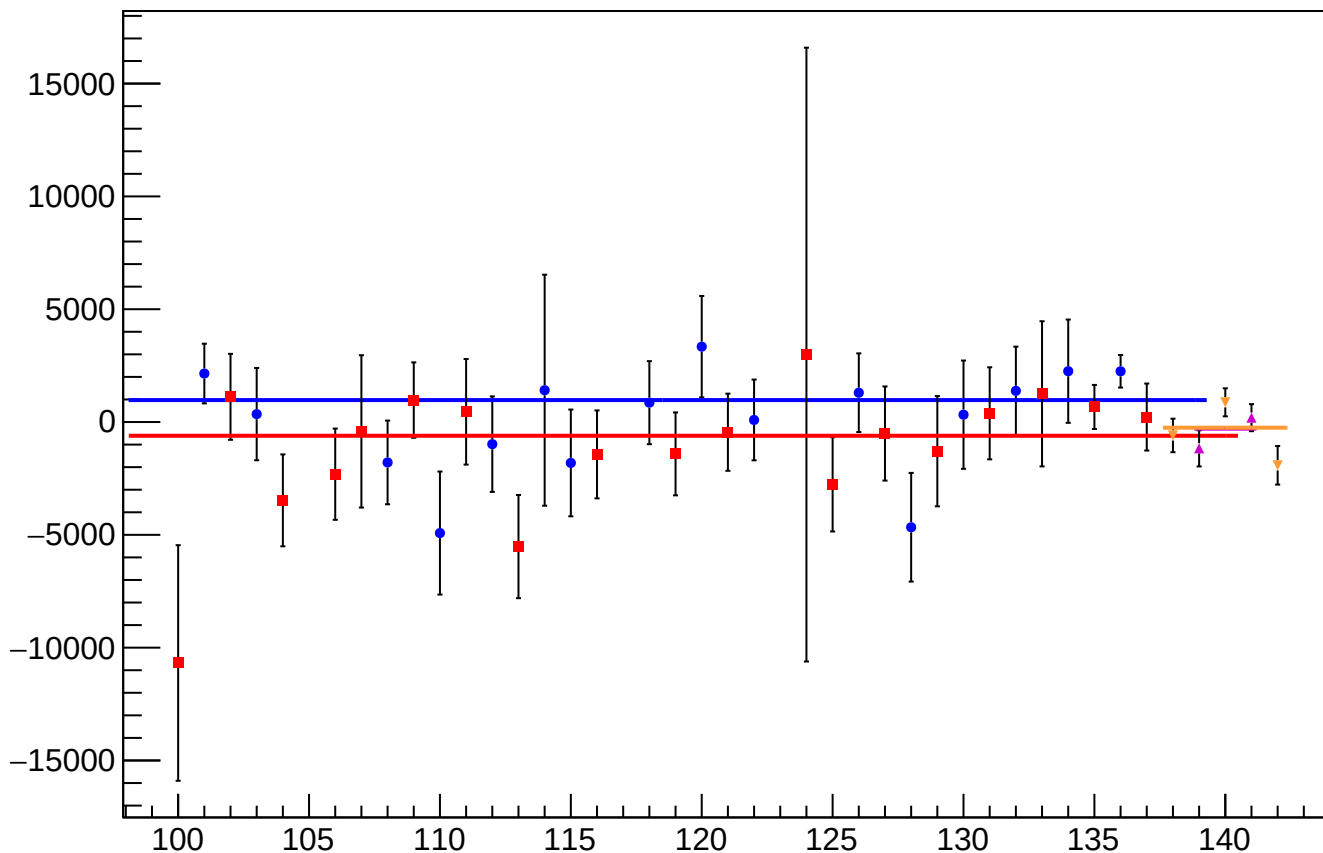
Right: 1279.074+/-0.241 χ^2/NDF : 727679.9/34

In: 1283.437+/-0.308 χ^2/NDF : 507593.2/17

Out: 1281.254+/-0.298 χ^2/NDF : 222116.4/21

All: 1282.311+/-0.214 χ^2/NDF : 729735.5/39

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 972.281+/-425.220 χ^2/NDF : 20.4/15

Left Out: -250.769+/-416.189 χ^2/NDF : 7.3/2

Right Out: -608.441+/-447.736 χ^2/NDF : 17.1/18

Left In: -294.202+/-479.505 χ^2/NDF : 1.9/1

Left: -269.430+/-314.309 χ^2/NDF : 9.2/4

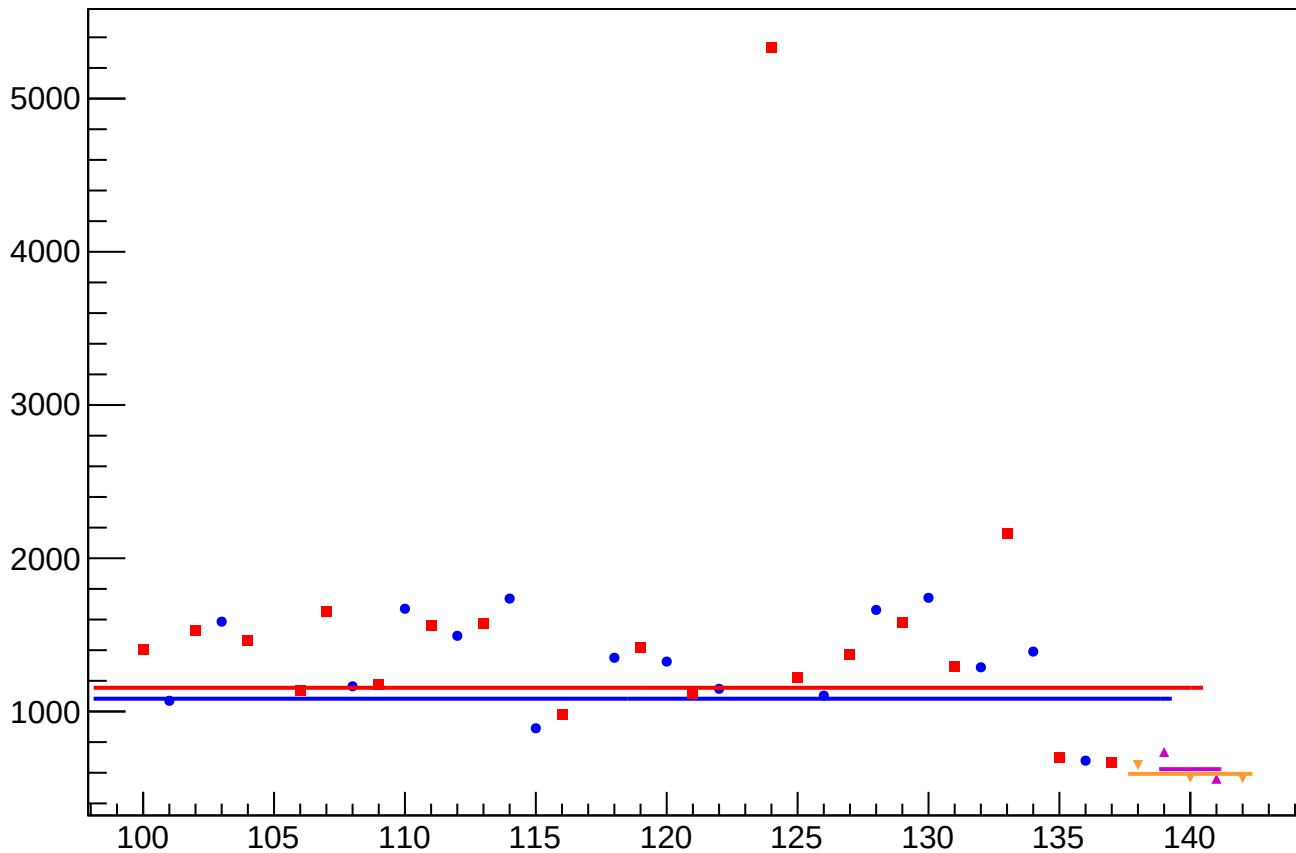
Right: 222.664+/-308.329 χ^2/NDF : 44.1/34

In: 414.758+/-318.145 χ^2/NDF : 26.2/17

Out: -416.561+/-304.833 χ^2/NDF : 24.8/21

All: -18.657+/-220.105 χ^2/NDF : 54.5/39

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1083.341+/-0.301 χ^2/NDF : 1360095.7/15

Left Out: 592.953+/-0.294 χ^2/NDF : 17488.4/2

Right Out: 1154.732+/-0.317 χ^2/NDF : 1488251.4/18

Left In: 623.564+/-0.339 χ^2/NDF : 60777.2/1

Left: 606.106+/-0.222 χ^2/NDF : 82914.2/4

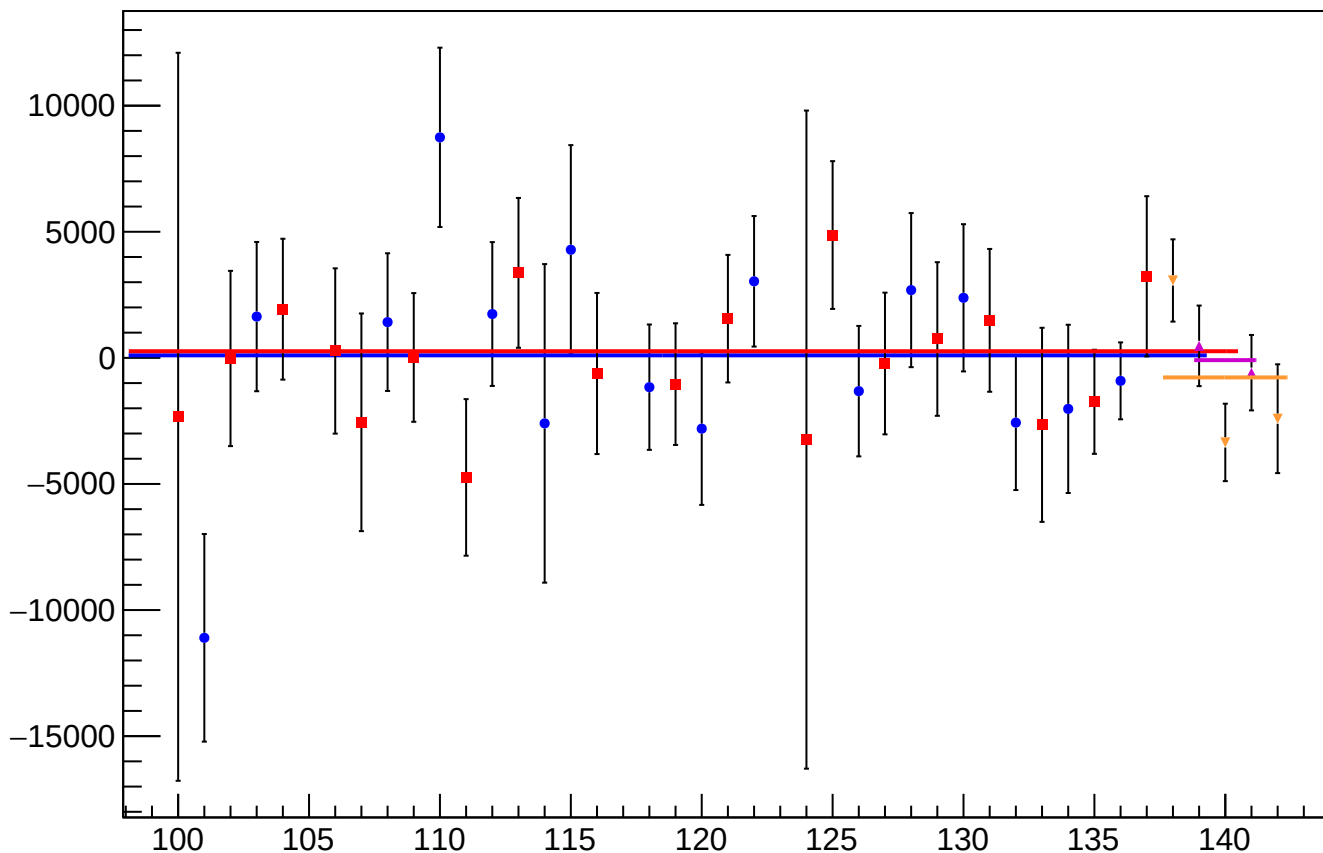
Right: 1117.196+/-0.218 χ^2/NDF : 2875081.4/34

In: 880.941+/-0.225 χ^2/NDF : 2450216.9/17

Out: 853.356+/-0.216 χ^2/NDF : 3194855.2/21

All: 866.559+/-0.156 χ^2/NDF : 5652911.0/39

asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 100.451 $\pm$ 698.983 χ^2 /NDF: 21.3/15

Left Out: -776.279 $\pm$ 992.664 χ^2 /NDF:8.9/2

Right Out: 262.731 $\pm$ 699.724 χ^2 /NDF: 10.3/18

Left In: -90.169 $\pm$ 1091.699 χ^2 /NDF:0.2/1

Left: -465.750 $\pm$ 734.442 χ^2 /NDF: 9.4/4

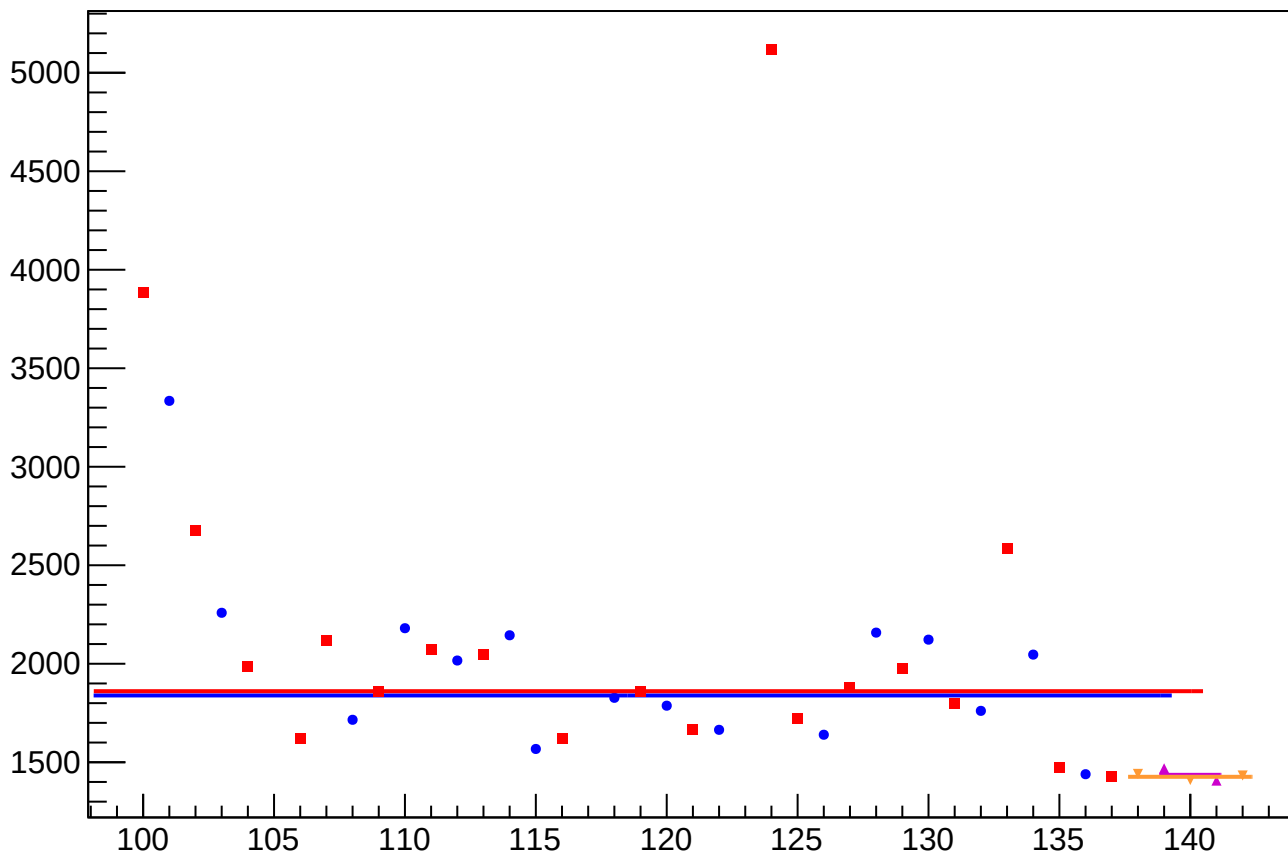
Right: 181.505 $\pm$ 494.518 χ^2 /NDF: 31.6/34

In: 45.028 $\pm$ 588.661 χ^2 /NDF:21.5/17

Out: -82.161 $\pm$ 571.918 χ^2 /NDF:20.0/21

All: -20.401 $\pm$ 410.199 χ^2 /NDF: 41.6/39

asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1839.113+/-0.494 χ^2/NDF : 556725.4/15

Left Out: 1426.148+/-0.702 χ^2/NDF : 408.9/2

Right Out: 1860.754+/-0.495 χ^2/NDF : 522114.2/18

Left In: 1436.114+/-0.772 χ^2/NDF : 1630.3/1

Left: 1430.659+/-0.519 χ^2/NDF : 2130.5/4

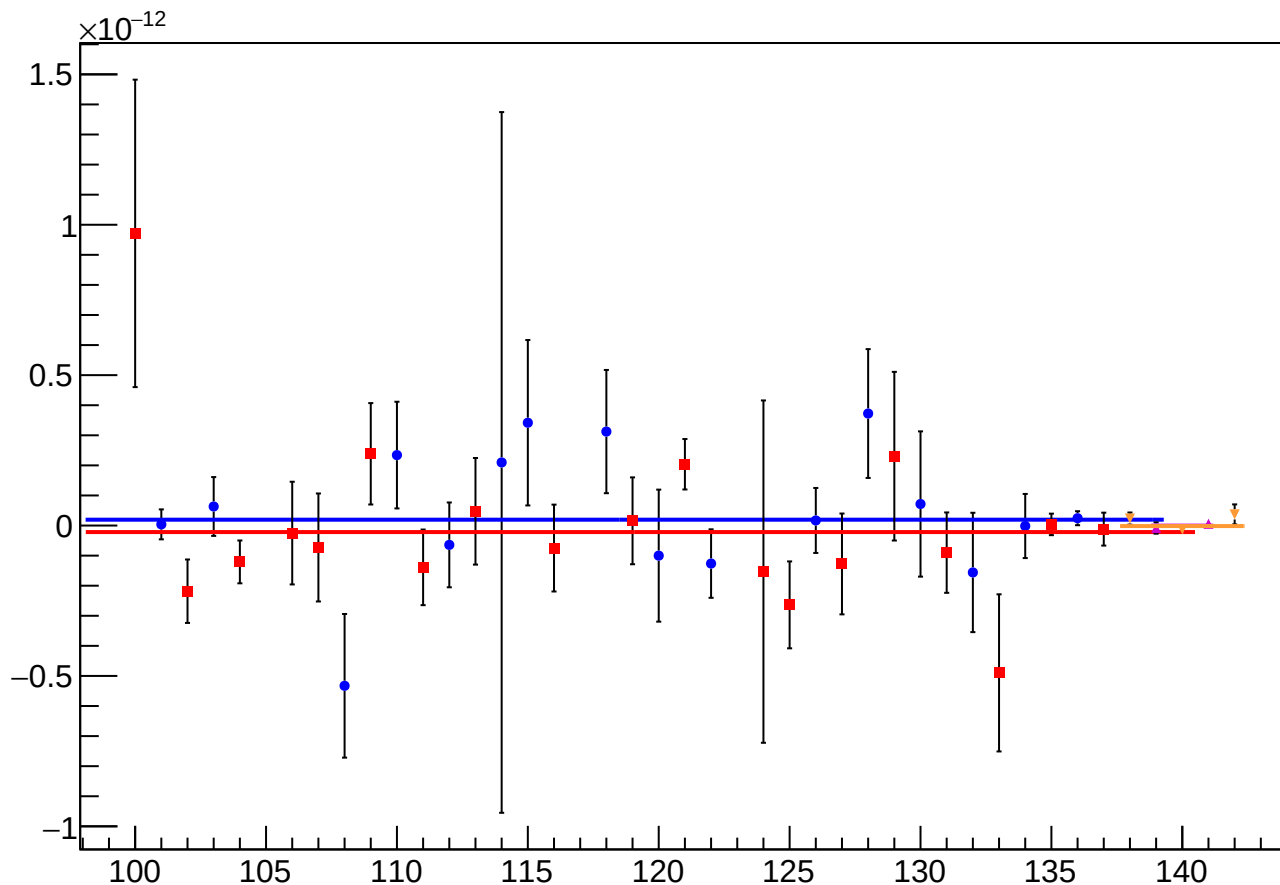
Right: 1849.922+/-0.350 χ^2/NDF : 1079797.1/34

In: 1721.940+/-0.416 χ^2/NDF : 751654.7/17

Out: 1716.492+/-0.404 χ^2/NDF : 778637.2/21

All: 1719.137+/-0.290 χ^2/NDF : 1530380.0/39

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.5/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 28.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.3/1

Left: -0.000+/-0.000 χ^2/NDF : 4.3/4

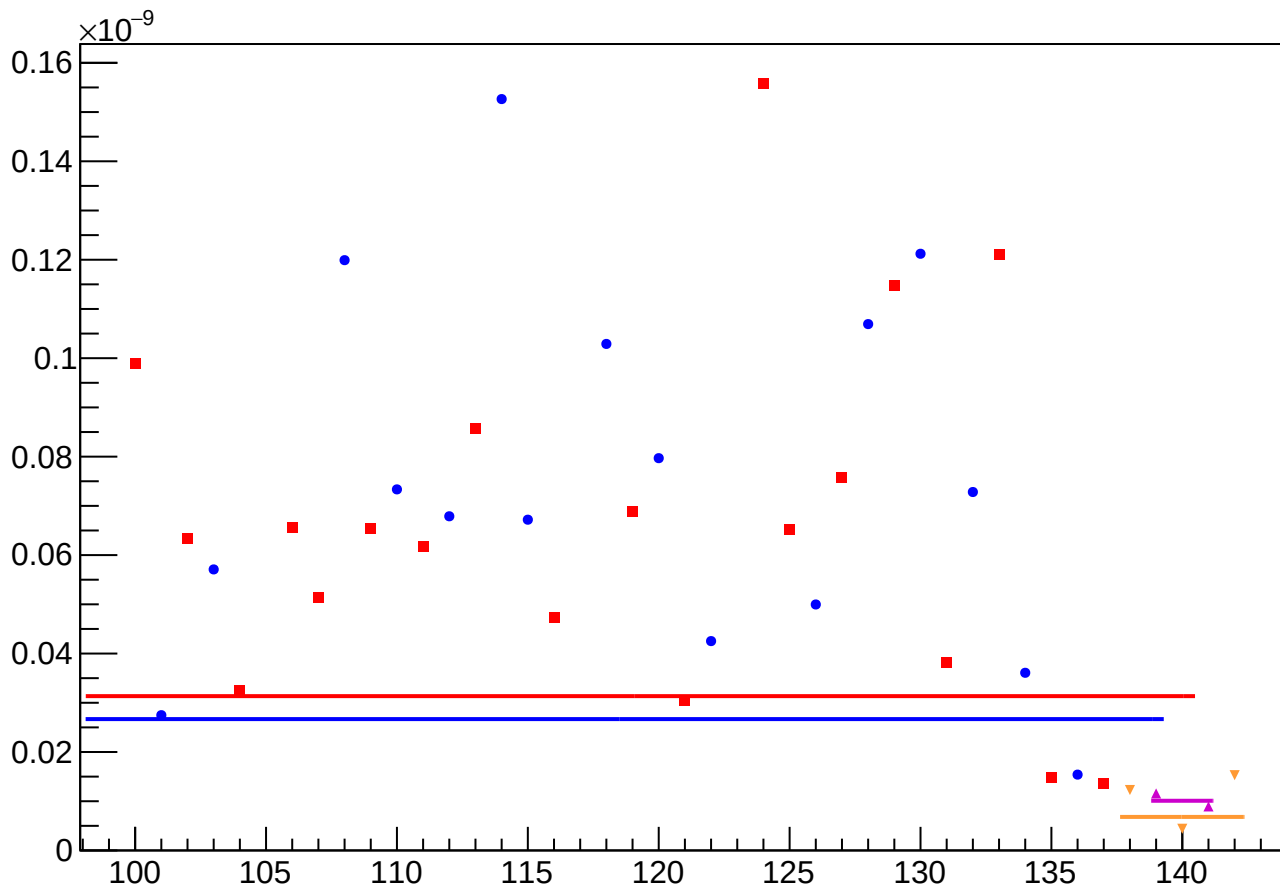
Right: 0.000+/-0.000 χ^2/NDF : 46.7/34

In: 0.000+/-0.000 χ^2/NDF : 17.6/17

Out: -0.000+/-0.000 χ^2/NDF : 32.8/21

All: -0.000+/-0.000 χ^2/NDF : 51.0/39

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2580672.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 377896.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2275167.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 22407.9/1

Left: 0.000+/-0.000 χ^2/NDF : 491945.1/4

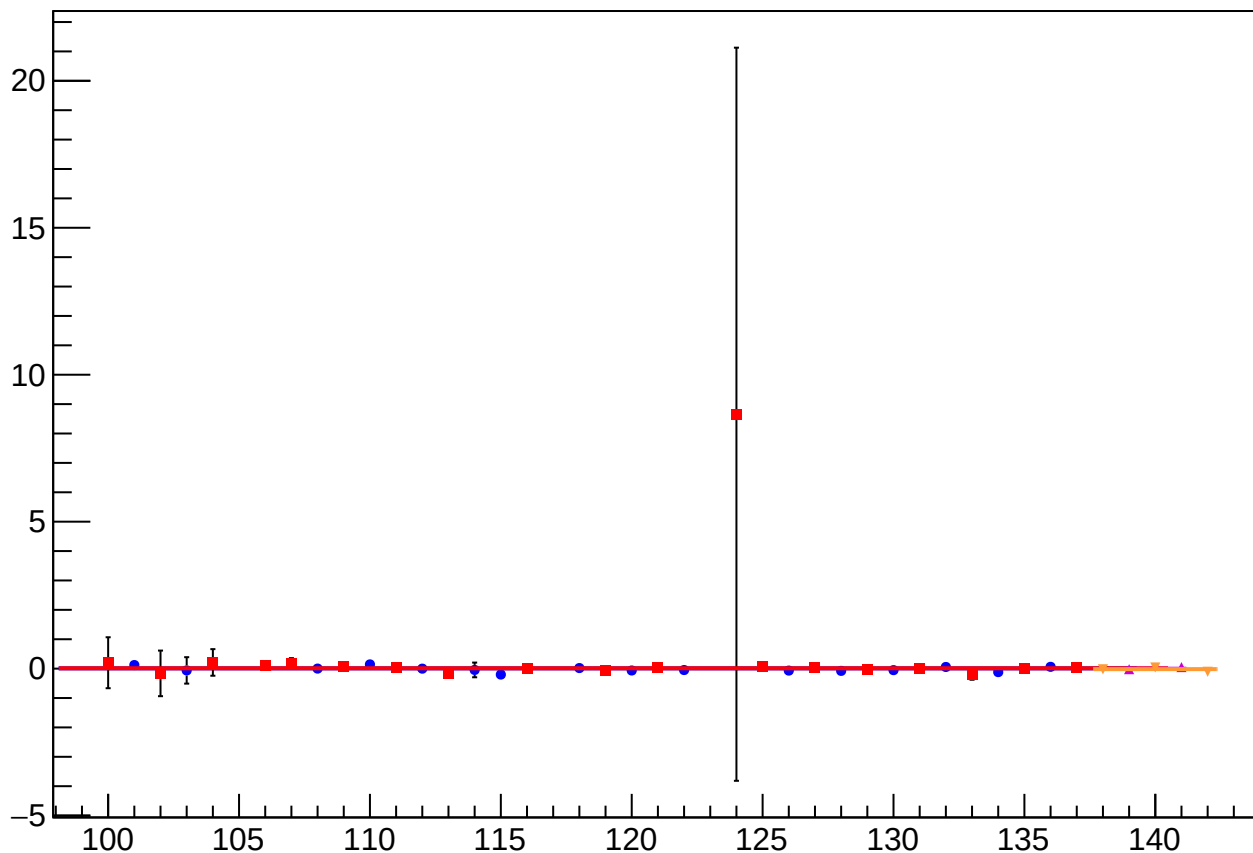
Right: 0.000+/-0.000 χ^2/NDF : 4906978.5/34

In: 0.000+/-0.000 χ^2/NDF : 3690838.9/17

Out: 0.000+/-0.000 χ^2/NDF : 4730320.7/21

All: 0.000+/-0.000 χ^2/NDF : 8679607.4/39

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008+/-0.016 χ^2/NDF : 19.3/15

Left Out: -0.017+/-0.024 χ^2/NDF : 2.3/2

Right Out: 0.012+/-0.017 χ^2/NDF : 12.6/18

Left In: -0.003+/-0.024 χ^2/NDF : 1.4/1

Left: -0.010+/-0.017 χ^2/NDF : 3.9/4

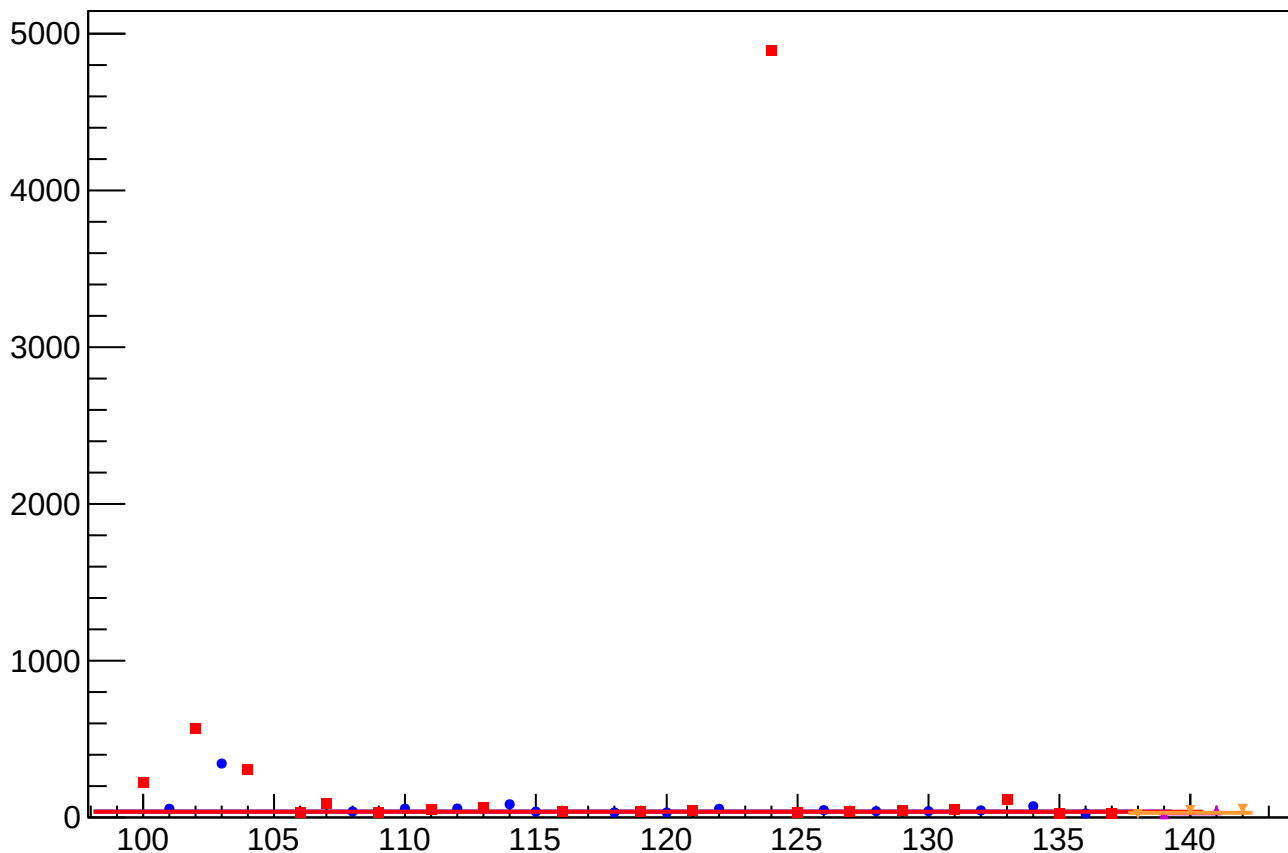
Right: 0.010+/-0.012 χ^2/NDF : 31.9/34

In: 0.005+/-0.013 χ^2/NDF : 20.9/17

Out: 0.003+/-0.014 χ^2/NDF : 15.8/21

All: 0.004+/-0.010 χ^2/NDF : 36.7/39

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.494+/-0.011 χ^2/NDF : 1983275.6/15

Left Out: 29.781+/-0.017 χ^2/NDF : 530972.8/2

Right Out: 36.767+/-0.012 χ^2/NDF : 3190700.2/18

Left In: 26.130+/-0.017 χ^2/NDF : 417356.7/1

Left: 27.956+/-0.012 χ^2/NDF : 971086.9/4

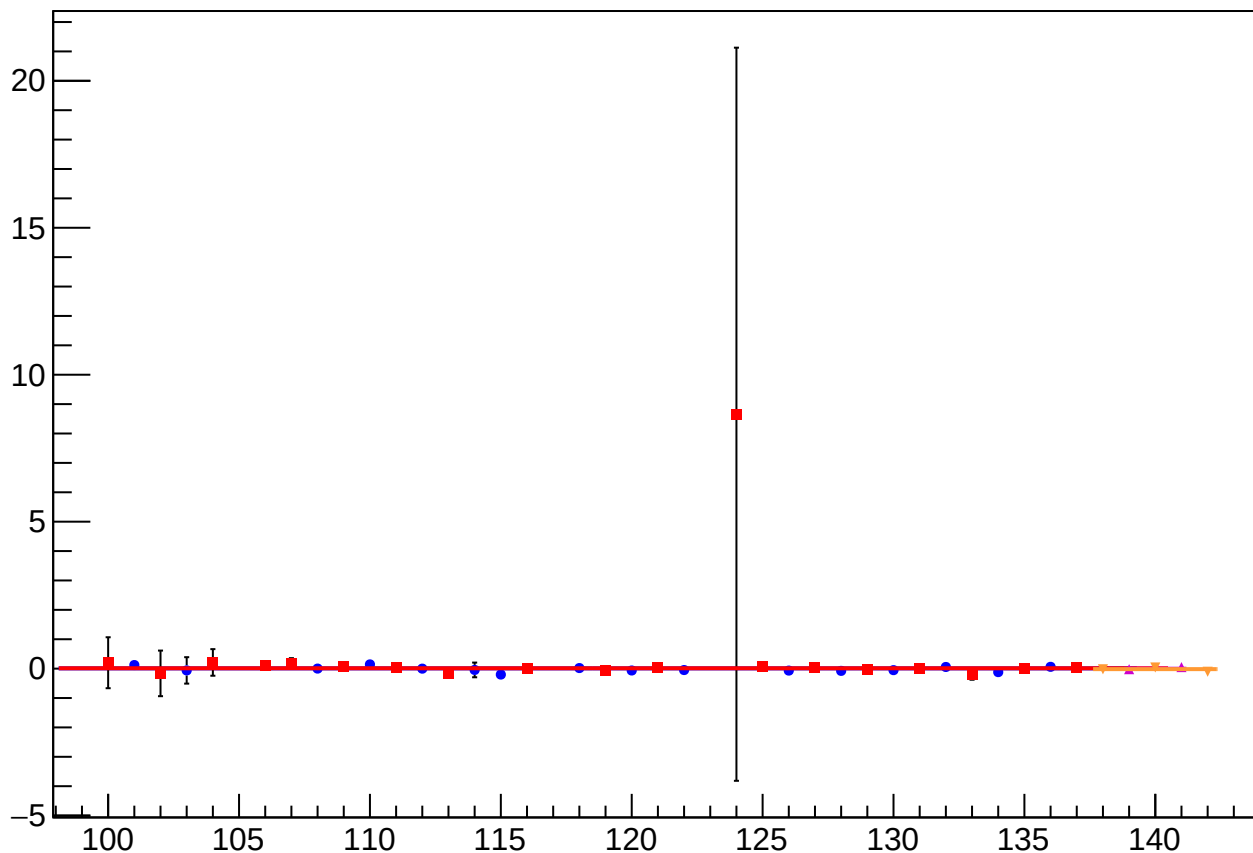
Right: 37.143+/-0.008 χ^2/NDF : 5175953.4/34

In: 34.015+/-0.009 χ^2/NDF : 2706564.2/17

Out: 34.528+/-0.010 χ^2/NDF : 3834984.1/21

All: 34.265+/-0.007 χ^2/NDF : 6542982.4/39

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008+/-0.016 χ^2/NDF : 19.3/15

Left Out: -0.017+/-0.024 χ^2/NDF : 2.3/2

Right Out: 0.012+/-0.017 χ^2/NDF : 12.6/18

Left In: -0.003+/-0.024 χ^2/NDF : 1.4/1

Left: -0.010+/-0.017 χ^2/NDF : 3.9/4

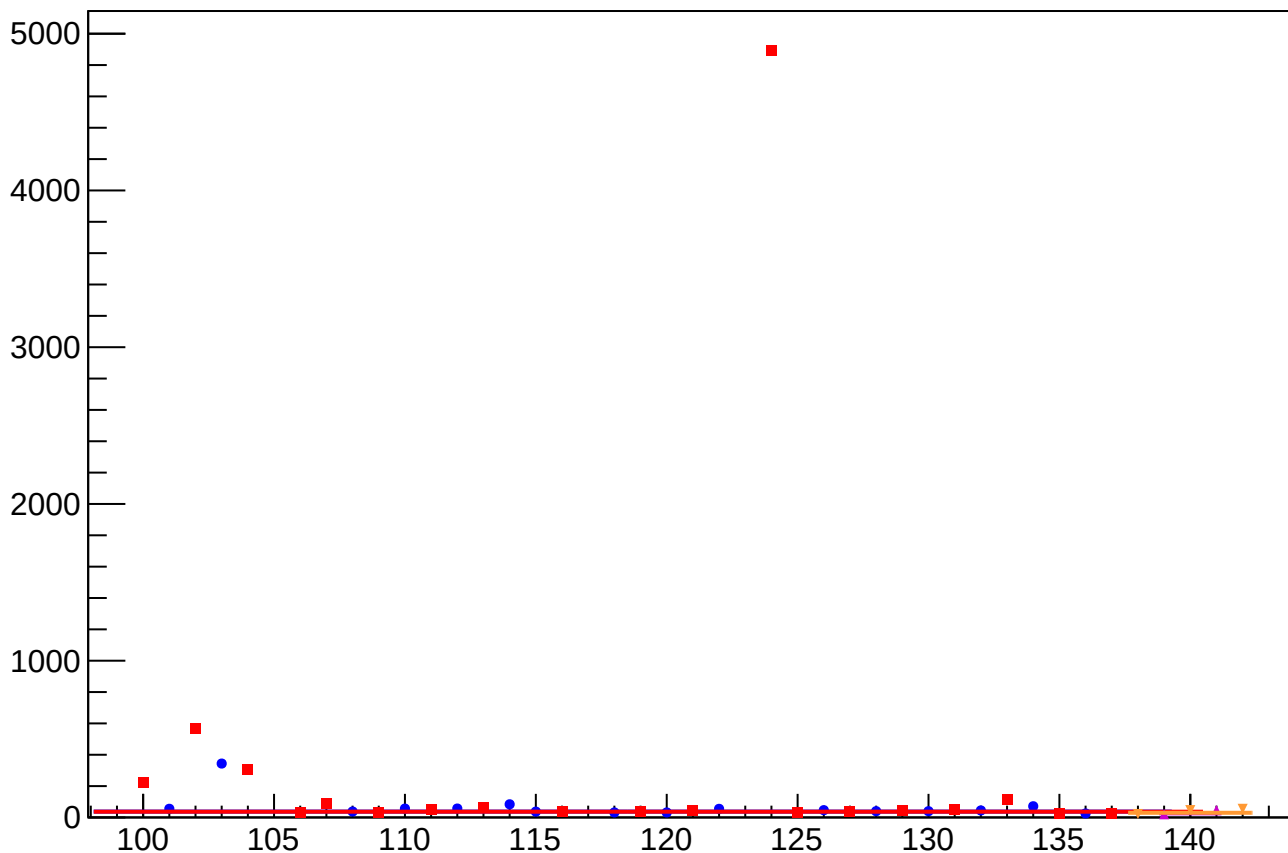
Right: 0.010+/-0.012 χ^2/NDF : 31.9/34

In: 0.005+/-0.013 χ^2/NDF : 20.9/17

Out: 0.003+/-0.014 χ^2/NDF : 15.8/21

All: 0.004+/-0.010 χ^2/NDF : 36.7/39

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.494+/-0.011 χ^2/NDF : 1983275.6/15

Left Out: 29.781+/-0.017 χ^2/NDF : 530972.8/2

Right Out: 36.767+/-0.012 χ^2/NDF : 3190700.2/18

Left In: 26.130+/-0.017 χ^2/NDF : 417356.7/1

Left: 27.956+/-0.012 χ^2/NDF : 971086.9/4

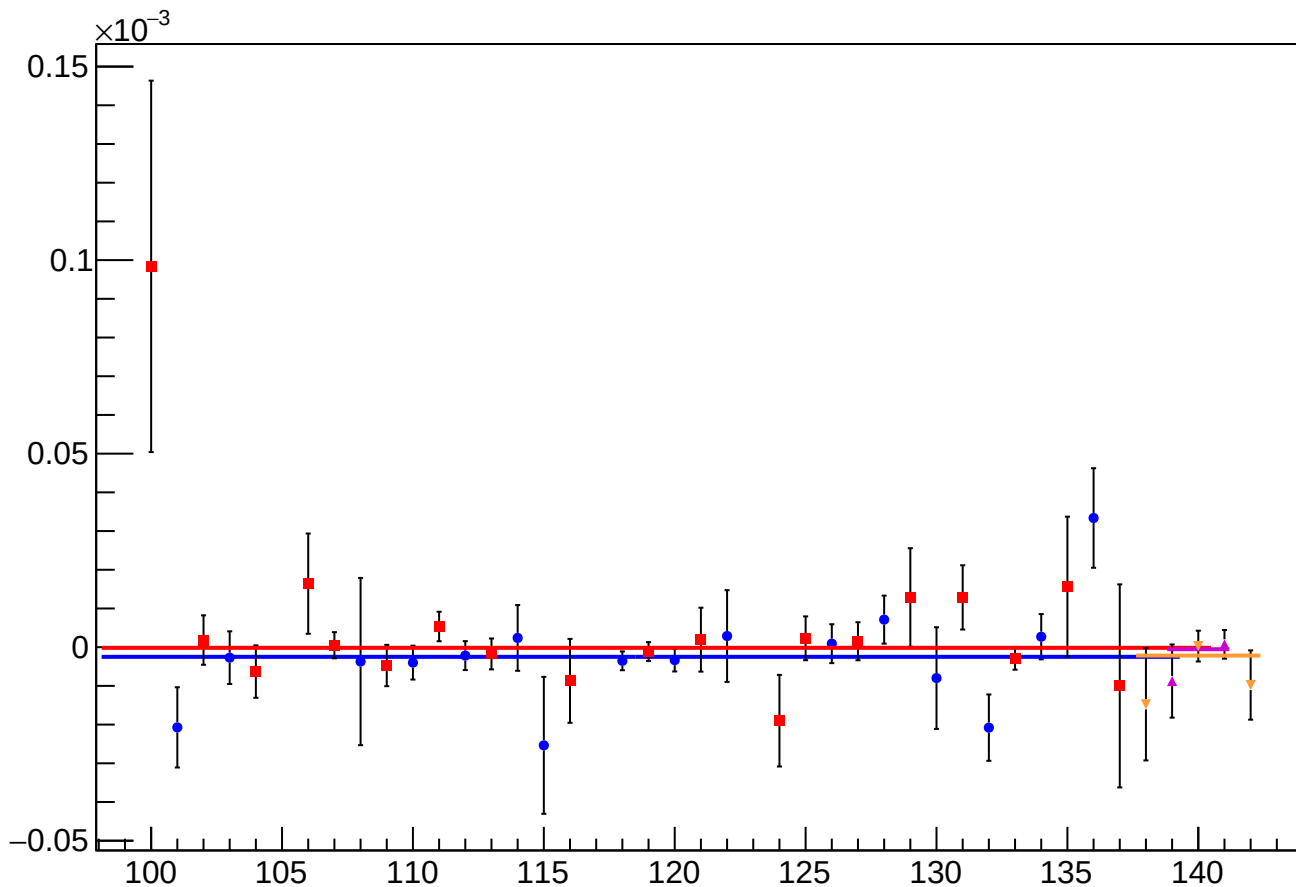
Right: 37.143+/-0.008 χ^2/NDF : 5175953.4/34

In: 34.015+/-0.009 χ^2/NDF : 2706564.2/17

Out: 34.528+/-0.010 χ^2/NDF : 3834984.1/21

All: 34.265+/-0.007 χ^2/NDF : 6542982.4/39

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 21.9/15

Left Out: -0.000+/-0.000 χ^2 /NDF:1.9/2

Right Out: -0.000+/-0.000 χ^2 /NDF: 18.9/18

Left In: -0.000+/-0.000 χ^2 /NDF:0.9/1

Left: -0.000+/-0.000 χ^2 /NDF: 2.8/4

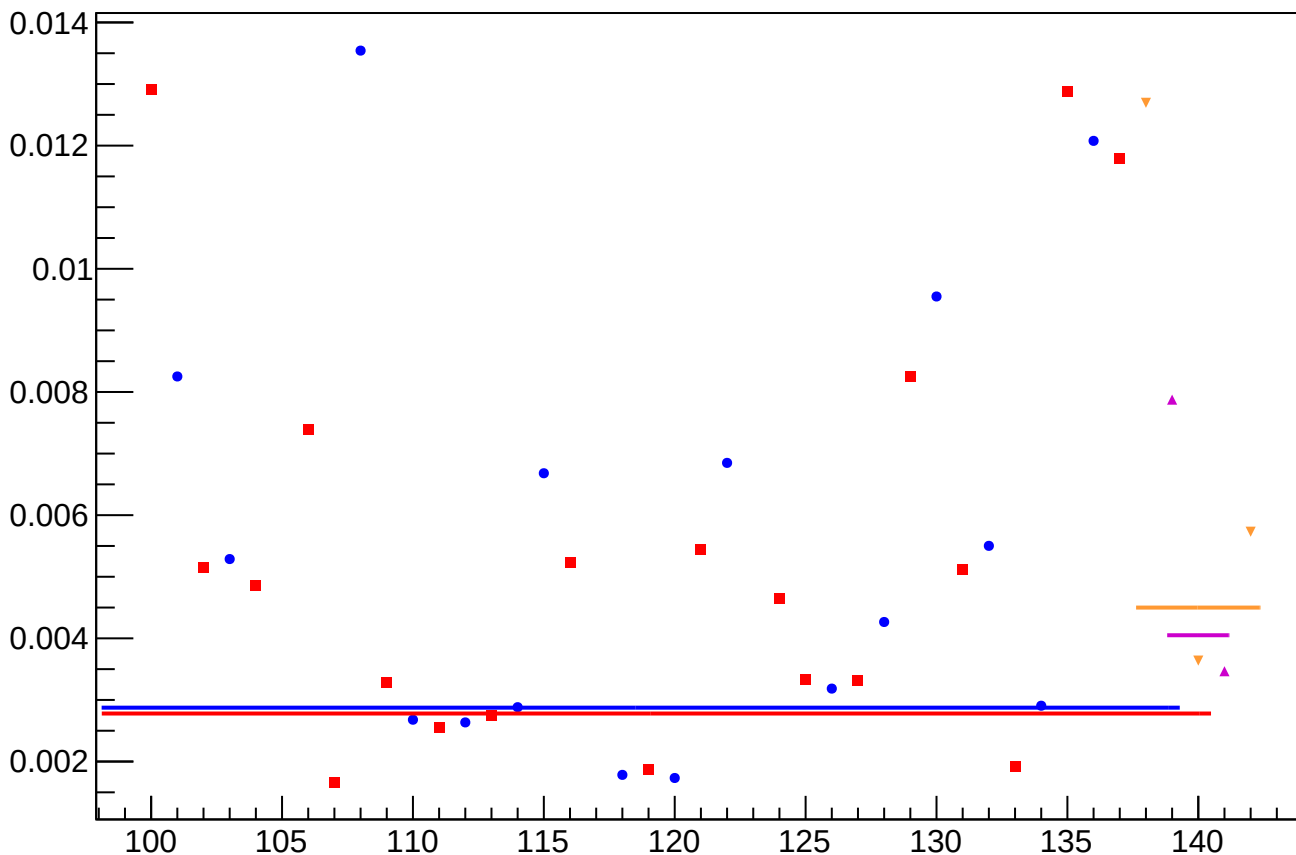
Right: -0.000+/-0.000 χ^2 /NDF: 42.5/34

In: -0.000+/-0.000 χ^2 /NDF:23.0/17

Out: -0.000+/-0.000 χ^2 /NDF:21.0/21

All: -0.000+/-0.000 χ^2 /NDF: 45.3/39

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000

χ^2/NDF : 4152056.9/15

Left Out: 0.004+/-0.000

χ^2/NDF : 771050.3/2

Right Out: 0.003+/-0.000

χ^2/NDF : 3311178.7/18

Left In: 0.004+/-0.000

χ^2/NDF : 377253.9/1

Left: 0.004+/-0.000

χ^2/NDF : 1164918.1/4

Right: 0.003+/-0.000

χ^2/NDF : 7469105.0/34

In: 0.003+/-0.000

χ^2/NDF : 4733338.9/17

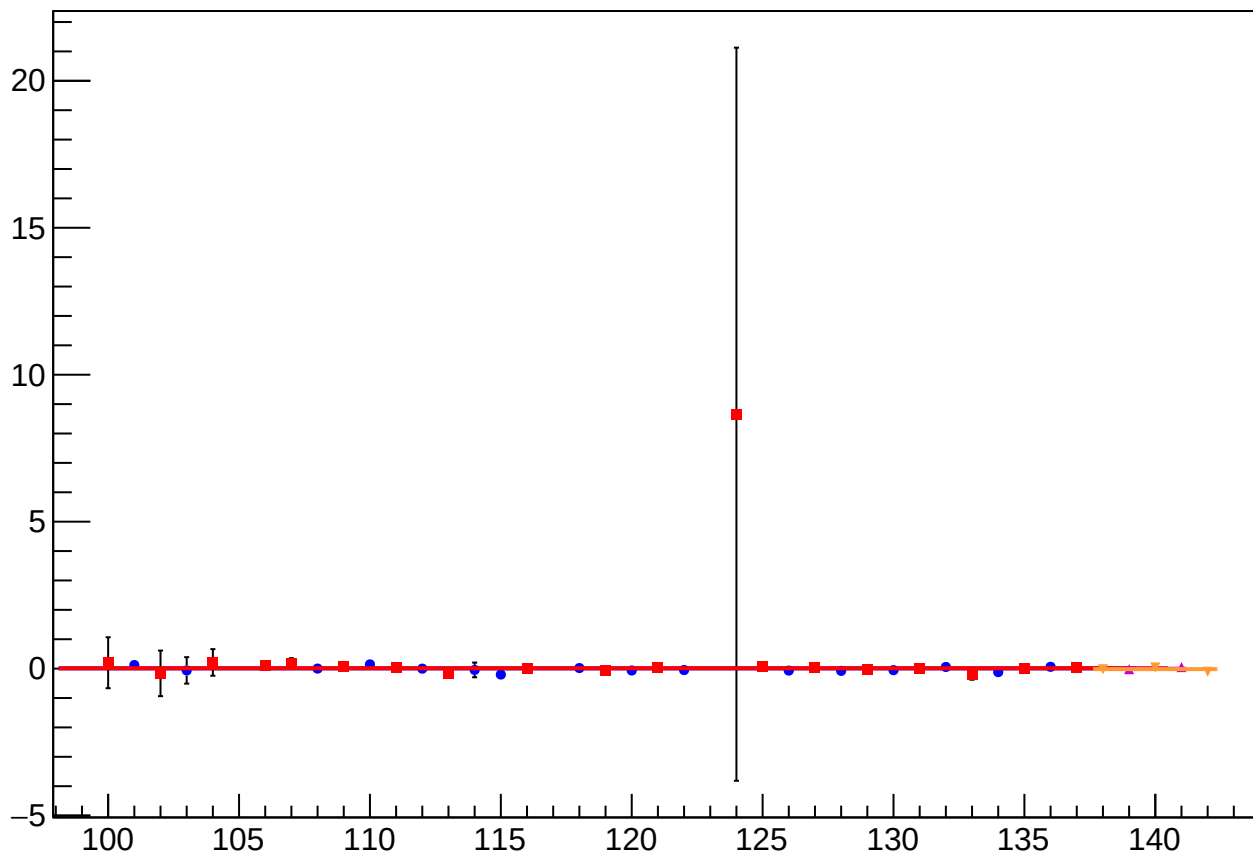
Out: 0.003+/-0.000

χ^2/NDF : 4510641.1/21

All: 0.003+/-0.000

χ^2/NDF : 9247713.2/39

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008+/-0.016 χ^2/NDF : 19.3/15

Left Out: -0.017+/-0.024 χ^2/NDF : 2.3/2

Right Out: 0.013+/-0.017 χ^2/NDF : 12.6/18

Left In: -0.003+/-0.024 χ^2/NDF : 1.4/1

Left: -0.010+/-0.017 χ^2/NDF : 3.9/4

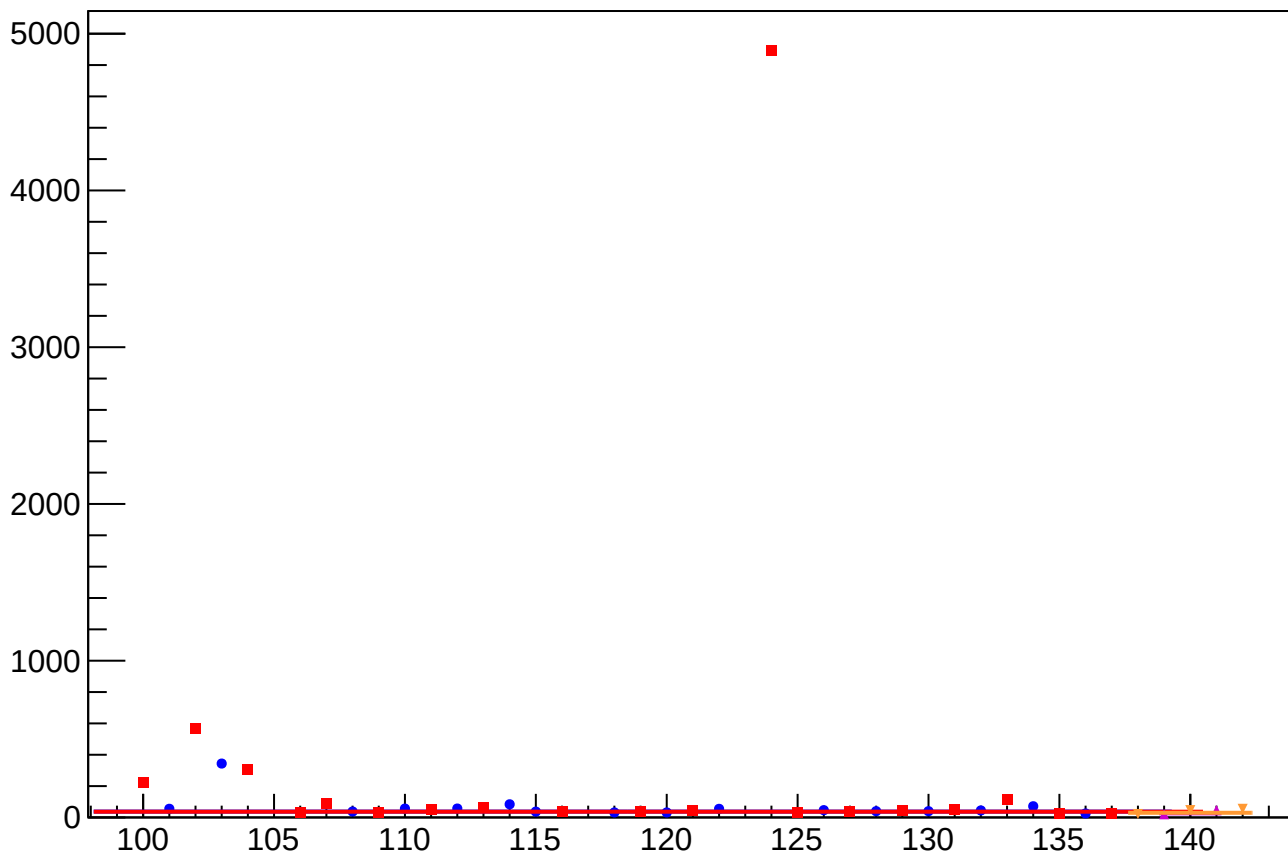
Right: 0.010+/-0.012 χ^2/NDF : 31.9/34

In: 0.005+/-0.013 χ^2/NDF : 20.9/17

Out: 0.003+/-0.014 χ^2/NDF : 15.8/21

All: 0.004+/-0.010 χ^2/NDF : 36.7/39

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.495 $\pm$ 0.011 χ^2 /NDF: 1983206.3/15

Left Out: 29.777 $\pm$ 0.017 χ^2 /NDF: 531269.7/2

Right Out: 36.769 $\pm$ 0.012 χ^2 /NDF: 3190400.7/18

Left In: 26.140 $\pm$ 0.017 χ^2 /NDF: 417082.2/1

Left: 27.959 $\pm$ 0.012 χ^2 /NDF: 970933.2/4

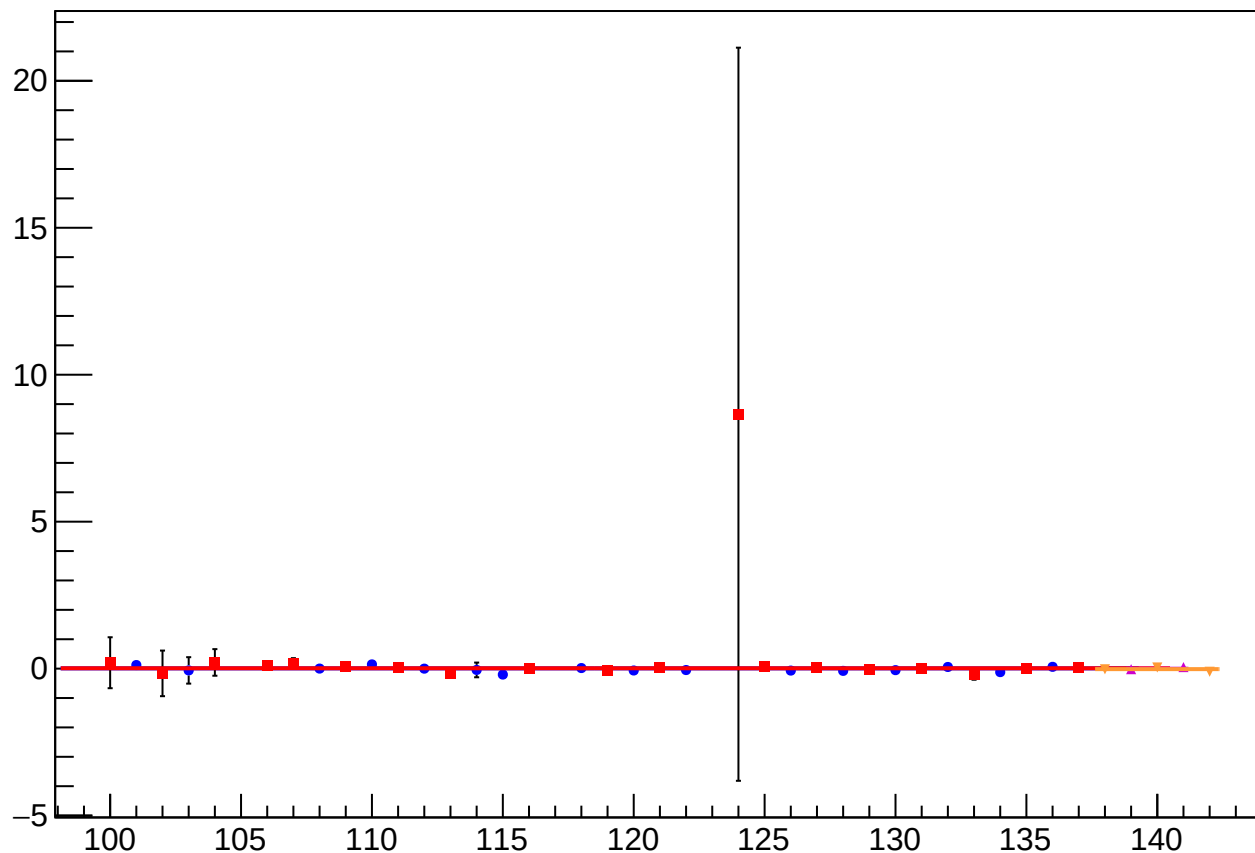
Right: 37.144 $\pm$ 0.008 χ^2 /NDF: 5175578.4/34

In: 34.019 $\pm$ 0.009 χ^2 /NDF: 2705627.8/17

Out: 34.527 $\pm$ 0.010 χ^2 /NDF: 3835178.0/21

All: 34.267 $\pm$ 0.007 χ^2 /NDF: 6542212.7/39

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008+/-0.016 χ^2/NDF : 19.3/15

Left Out: -0.017+/-0.024 χ^2/NDF : 2.3/2

Right Out: 0.013+/-0.017 χ^2/NDF : 12.6/18

Left In: -0.003+/-0.024 χ^2/NDF : 1.4/1

Left: -0.010+/-0.017 χ^2/NDF : 3.9/4

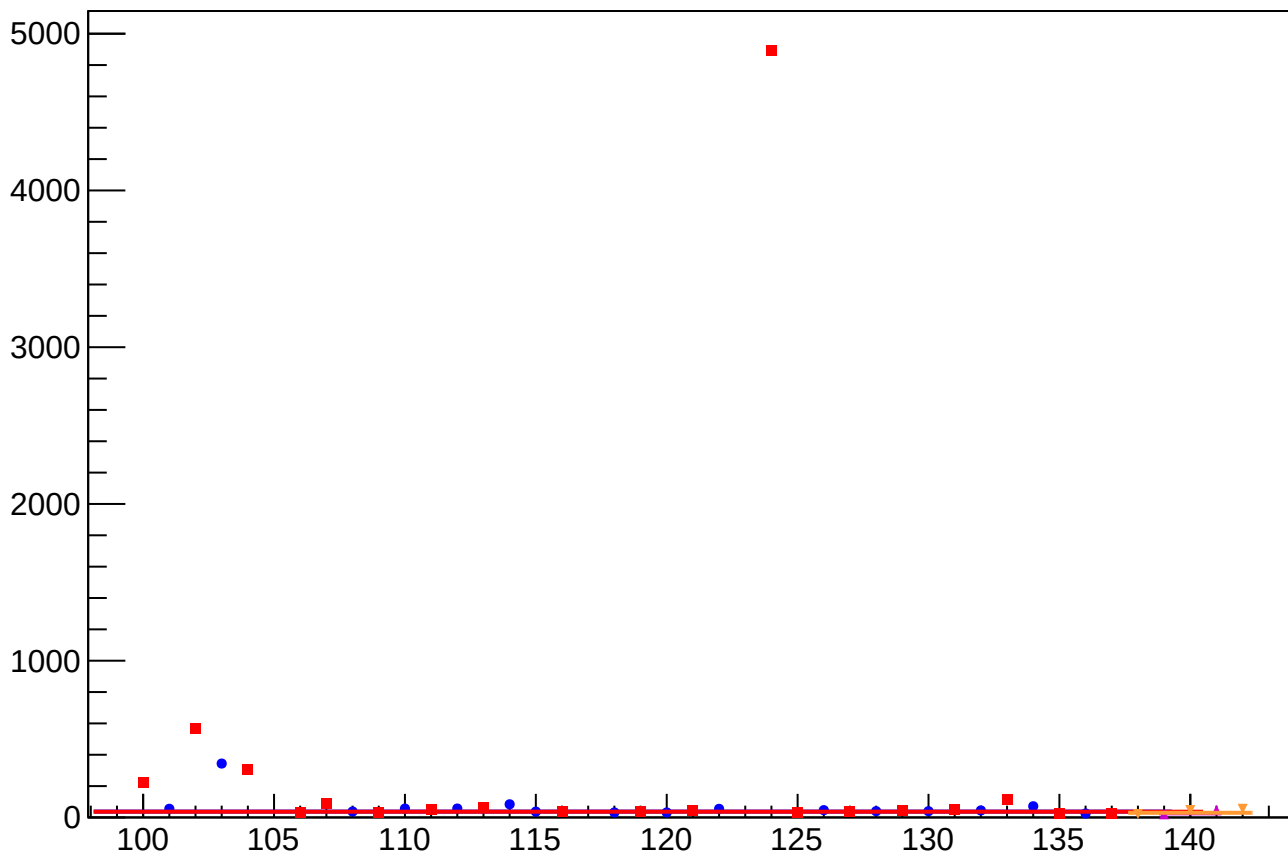
Right: 0.010+/-0.012 χ^2/NDF : 31.9/34

In: 0.005+/-0.013 χ^2/NDF : 20.9/17

Out: 0.003+/-0.014 χ^2/NDF : 15.8/21

All: 0.004+/-0.010 χ^2/NDF : 36.7/39

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.495+/-0.011 χ^2/NDF : 1983206.3/15

Left Out: 29.777+/-0.017 χ^2/NDF : 531269.7/2

Right Out: 36.769+/-0.012 χ^2/NDF : 3190400.7/18

Left In: 26.140+/-0.017 χ^2/NDF : 417082.2/1

Left: 27.959+/-0.012 χ^2/NDF : 970933.2/4

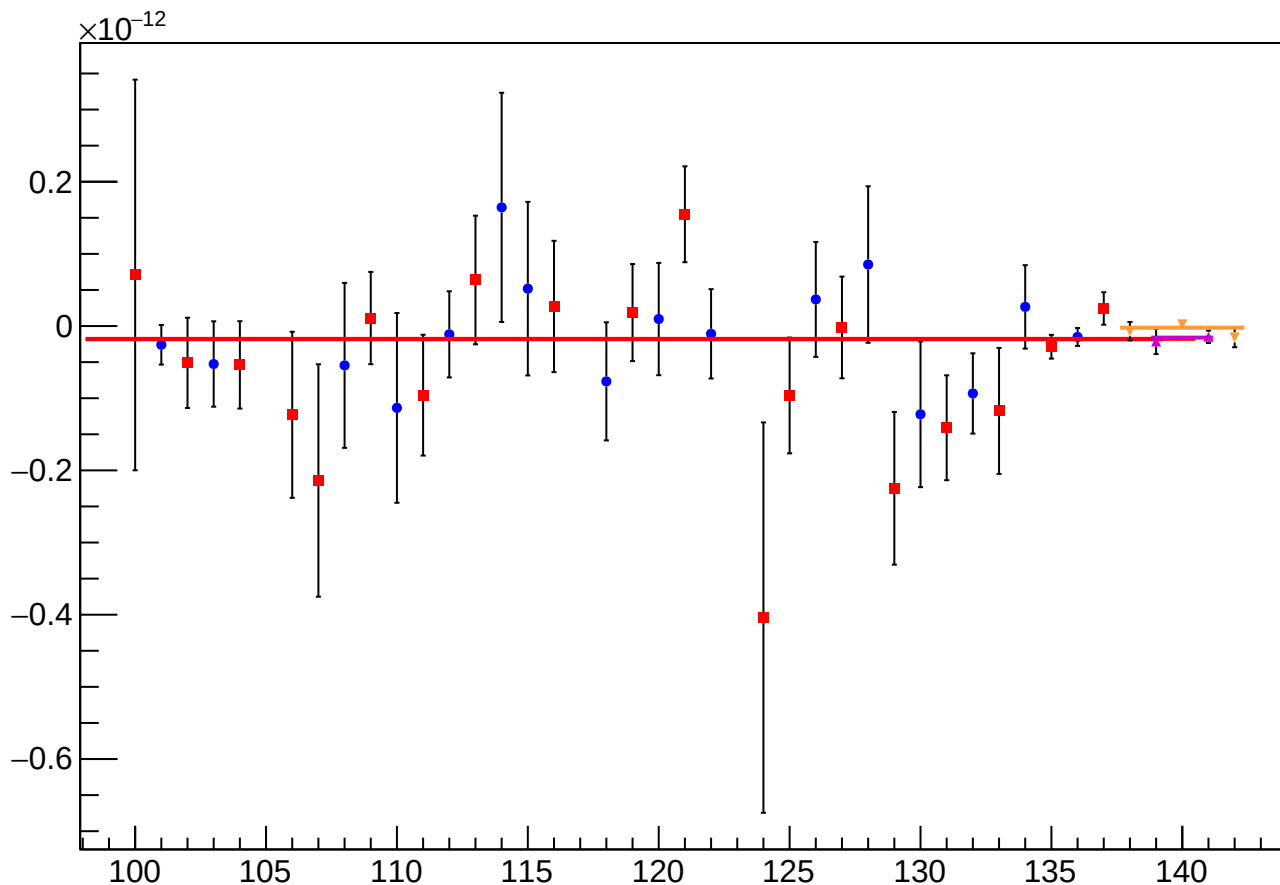
Right: 37.144+/-0.008 χ^2/NDF : 5175578.4/34

In: 34.019+/-0.009 χ^2/NDF : 2705627.8/17

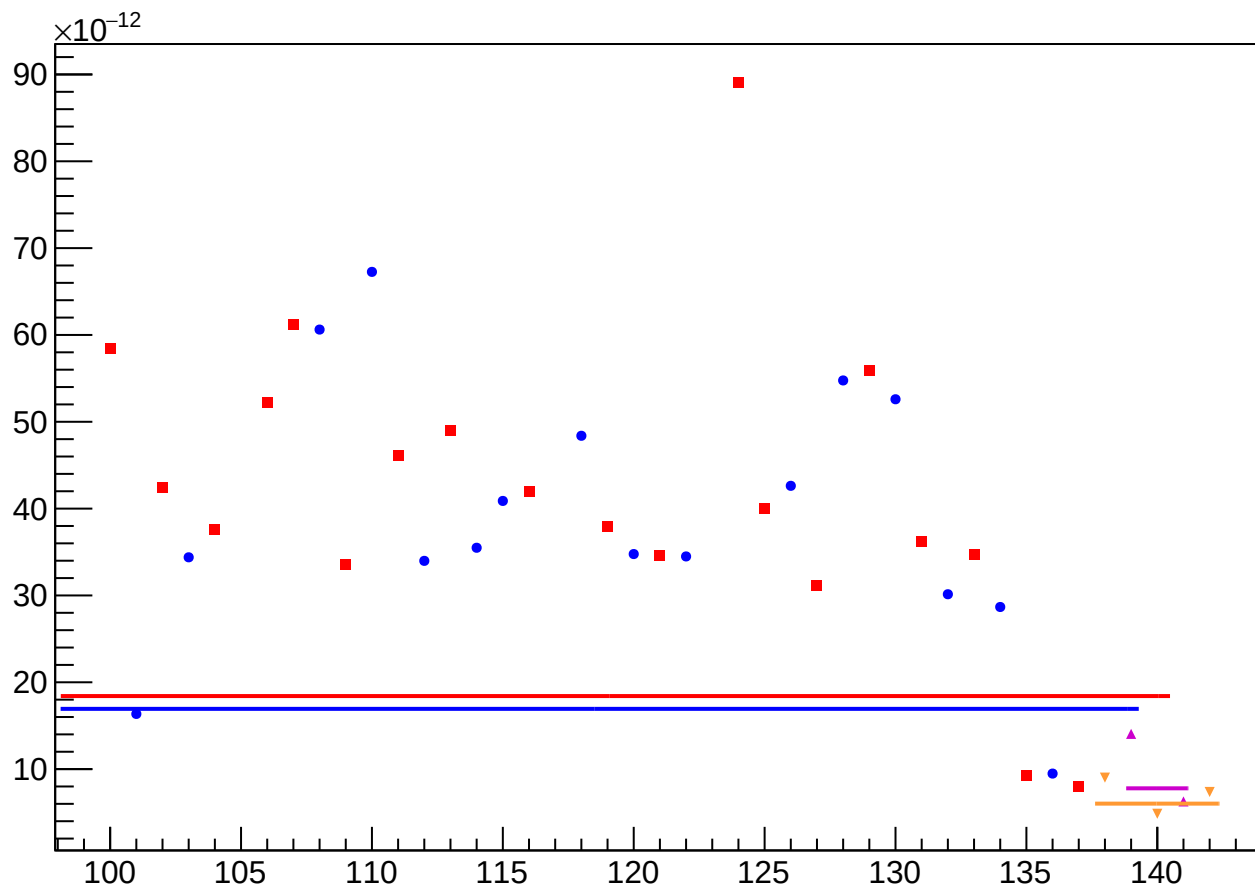
Out: 34.527+/-0.010 χ^2/NDF : 3835178.0/21

All: 34.267+/-0.007 χ^2/NDF : 6542212.7/39

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3207856.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 189485.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3674861.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 316105.3/1

Left: 0.000+/-0.000 χ^2/NDF : 574803.3/4

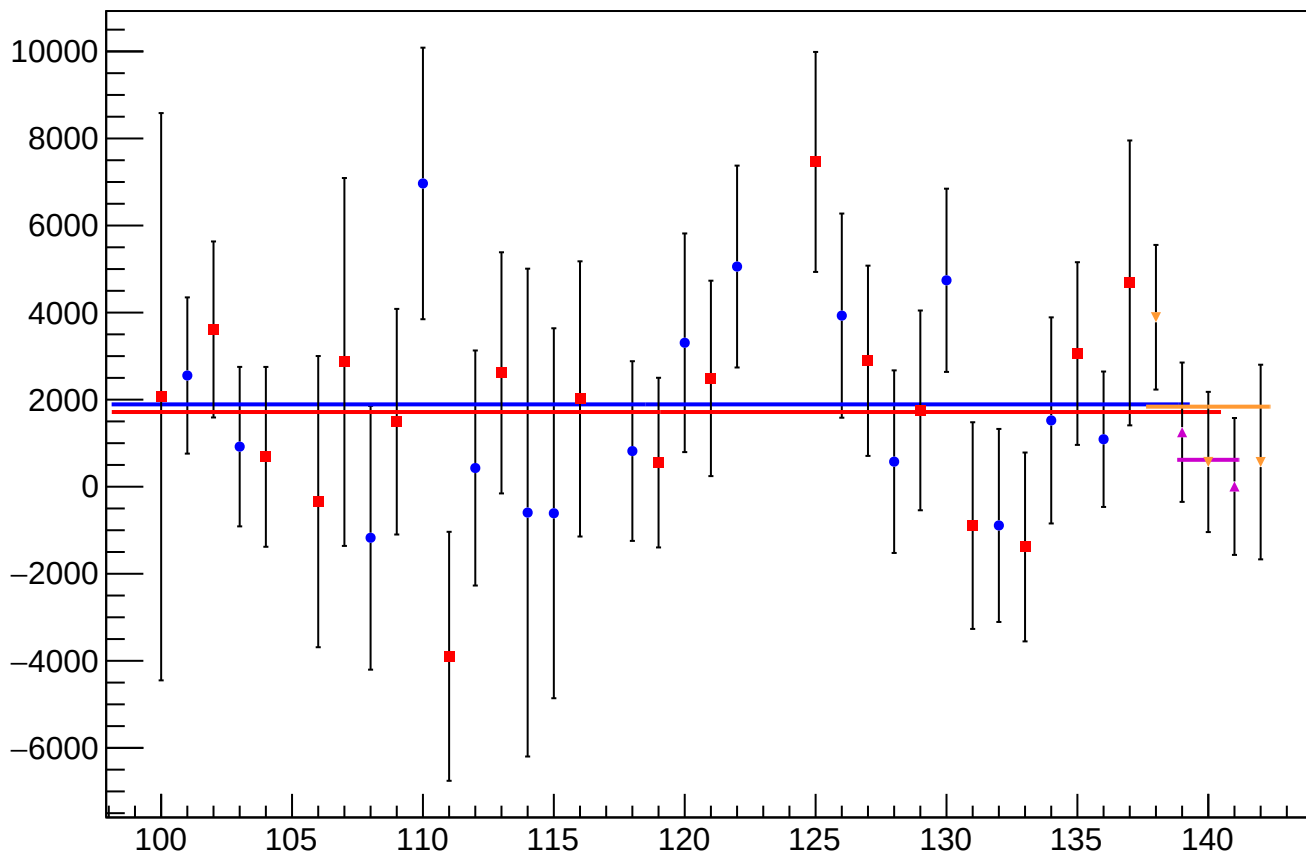
Right: 0.000+/-0.000 χ^2/NDF : 6902390.3/34

In: 0.000+/-0.000 χ^2/NDF : 4582731.3/17

Out: 0.000+/-0.000 χ^2/NDF : 5882033.1/21

All: 0.000+/-0.000 χ^2/NDF : 10719314.2/39

reg_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1891.457+/-572.244 χ^2/NDF : 12.2/15

Left Out: 1838.790+/-1027.211 χ^2/NDF : 2.5/2

Right Out: 1715.909+/-589.518 χ^2/NDF : 16.0/17

Left In: 617.778+/-1121.714 χ^2/NDF : 0.3/1

Left: 1281.877+/-757.558 χ^2/NDF : 3.4/4

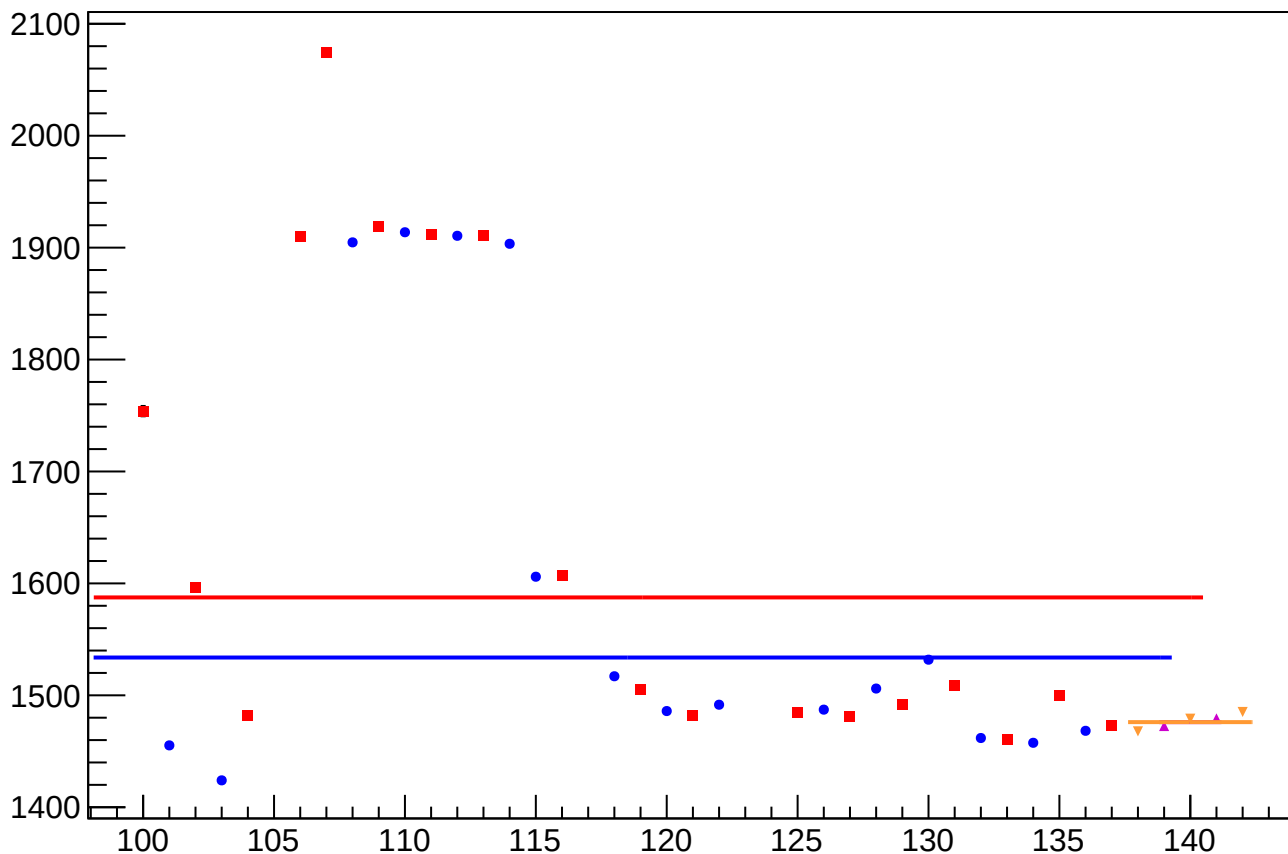
Right: 1806.293+/-410.609 χ^2/NDF : 28.2/33

In: 1628.430+/-509.744 χ^2/NDF : 13.6/17

Out: 1746.354+/-511.300 χ^2/NDF : 18.5/20

All: 1687.213+/-360.992 χ^2/NDF : 32.0/38

reg_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1533.771+/-0.405 χ^2/NDF : 129271.6/15

Left Out: 1476.053+/-0.726 χ^2/NDF : 89.6/2

Right Out: 1587.461+/-0.417 χ^2/NDF : 171988.2/17

Left In: 1476.042+/-0.793 χ^2/NDF : 18.4/1

Left: 1476.048+/-0.536 χ^2/NDF : 108.0/4

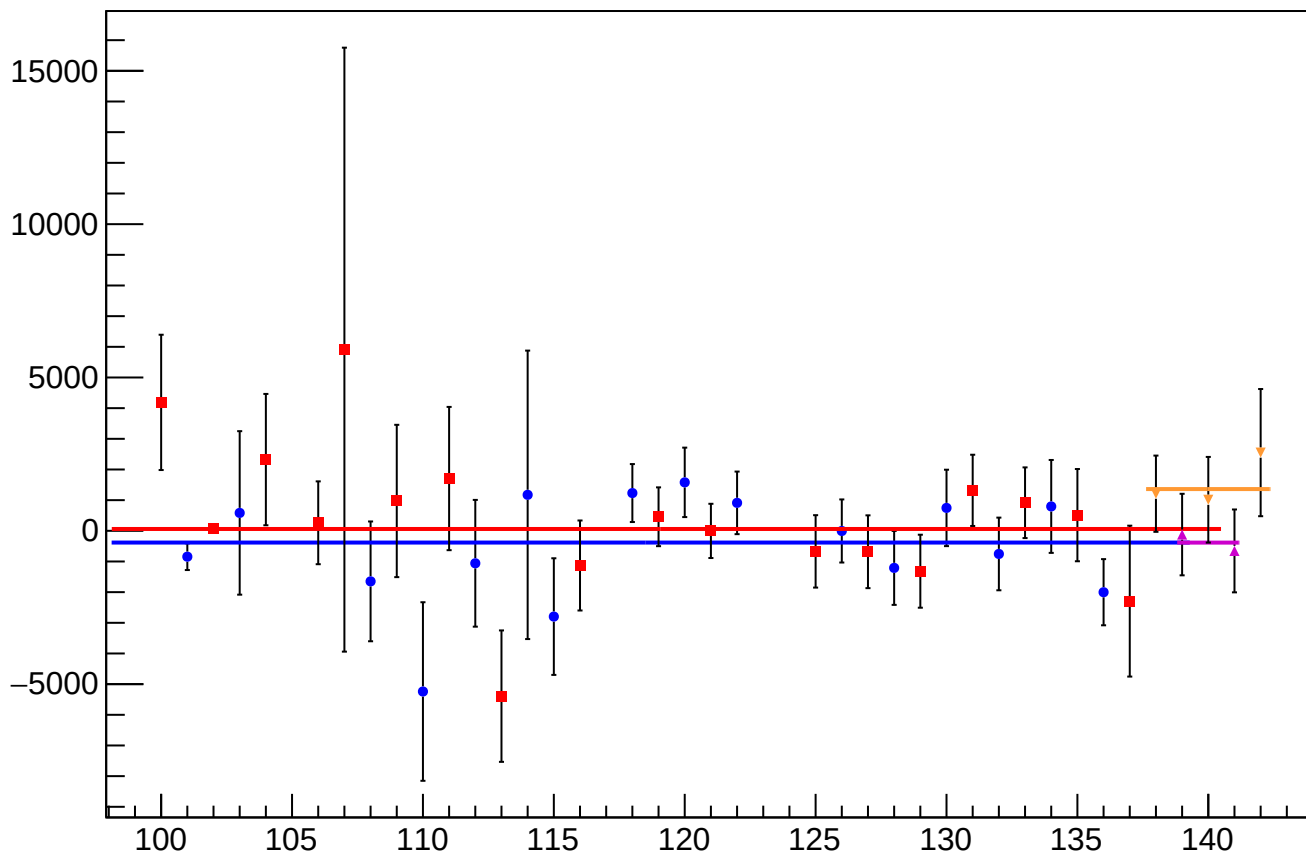
Right: 1559.818+/-0.290 χ^2/NDF : 309801.2/33

In: 1521.849+/-0.360 χ^2/NDF : 133493.4/17

Out: 1559.859+/-0.362 χ^2/NDF : 189775.0/20

All: 1540.796+/-0.255 χ^2/NDF : 328811.5/38

asym_usl_atl1_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -382.787+/-272.209 χ^2/NDF : 18.2/15

Left Out: 1361.339+/-847.581 χ^2/NDF : 0.4/2

Right Out: 59.970+/-127.700 χ^2/NDF : 17.8/17

Left In: -384.402+/-947.619 χ^2/NDF : 0.1/1

Left: 585.448+/-631.748 χ^2/NDF : 2.4/4

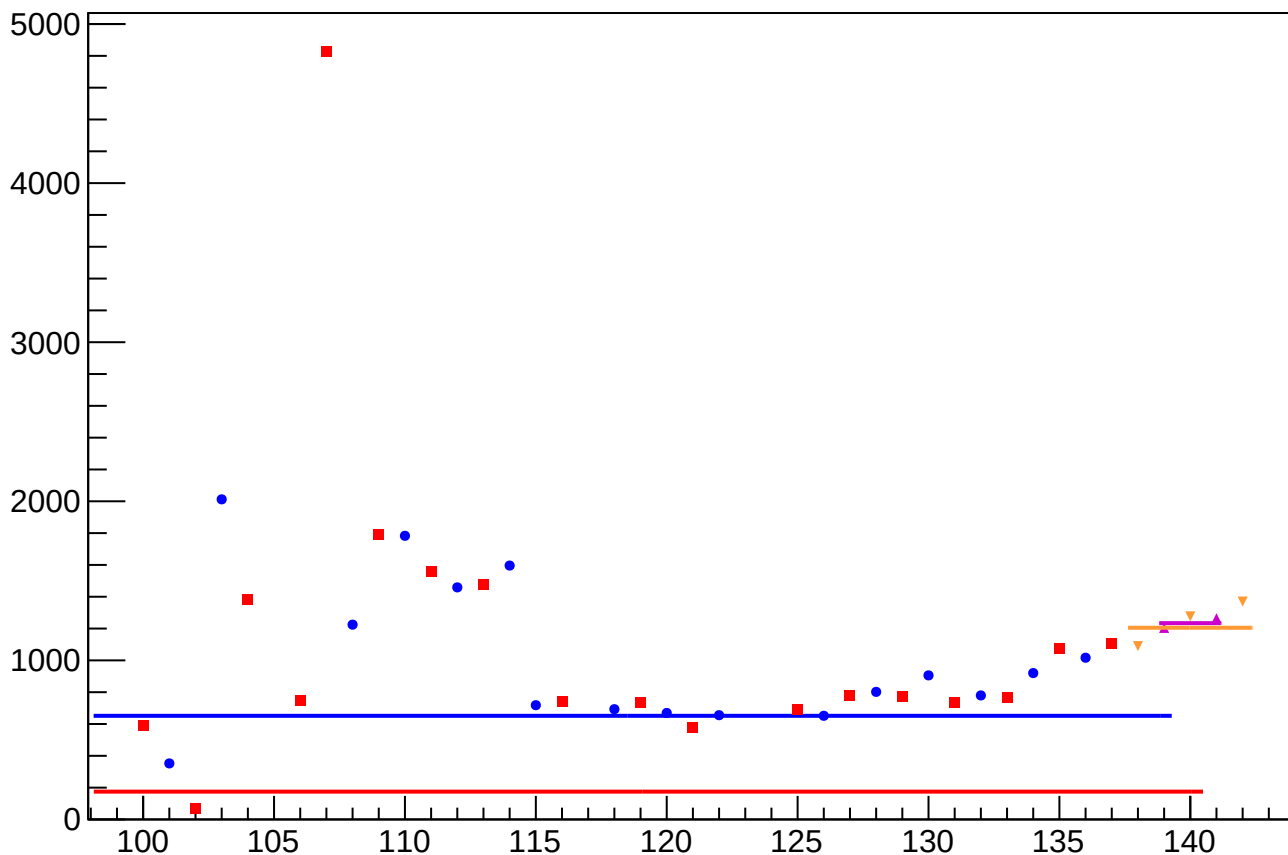
Right: -19.895+/-115.611 χ^2/NDF : 38.1/33

In: -382.911+/-261.629 χ^2/NDF : 18.3/17

Out: 88.856+/-126.275 χ^2/NDF : 20.5/20

All: -0.279+/-113.722 χ^2/NDF : 41.4/38

asym_usl_atl1_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 651.523+/-0.192 χ^2/NDF : 2762656.2/15

Left Out: 1205.068+/-0.599 χ^2/NDF :35119.1/2

Right Out: 174.898+/-0.090 χ^2/NDF : 9761228.2/17

Left In: 1233.965+/-0.670 χ^2/NDF :2028.3/1

Left: 1217.911+/-0.447 χ^2/NDF : 38180.6/4

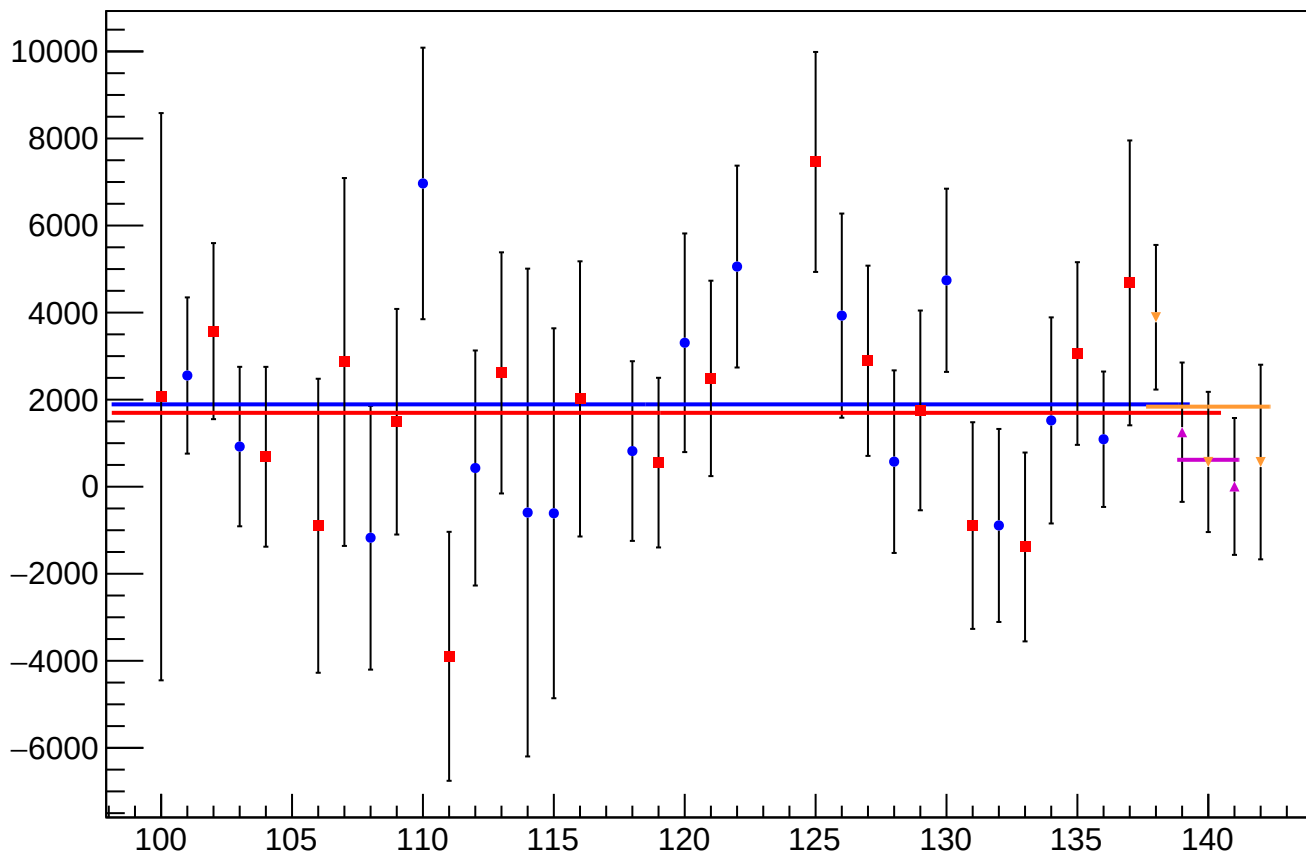
Right: 260.873+/-0.082 χ^2/NDF : 17549506.9/33

In: 695.920+/-0.185 χ^2/NDF :3462650.5/17

Out: 197.764+/-0.089 χ^2/NDF :12685274.4/20

All: 291.885+/-0.080 χ^2/NDF : 22028834.6/38

cor_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1891.562 $\pm$ 572.244 χ^2 /NDF: 12.2/15

Left Out: 1838.858 $\pm$ 1027.211 χ^2 /NDF:2.5/2

Right Out: 1696.987 $\pm$ 589.699 χ^2 /NDF: 16.2/17

Left In: 618.030 $\pm$ 1121.714 χ^2 /NDF:0.3/1

Left: 1282.029 $\pm$ 757.558 χ^2 /NDF: 3.4/4

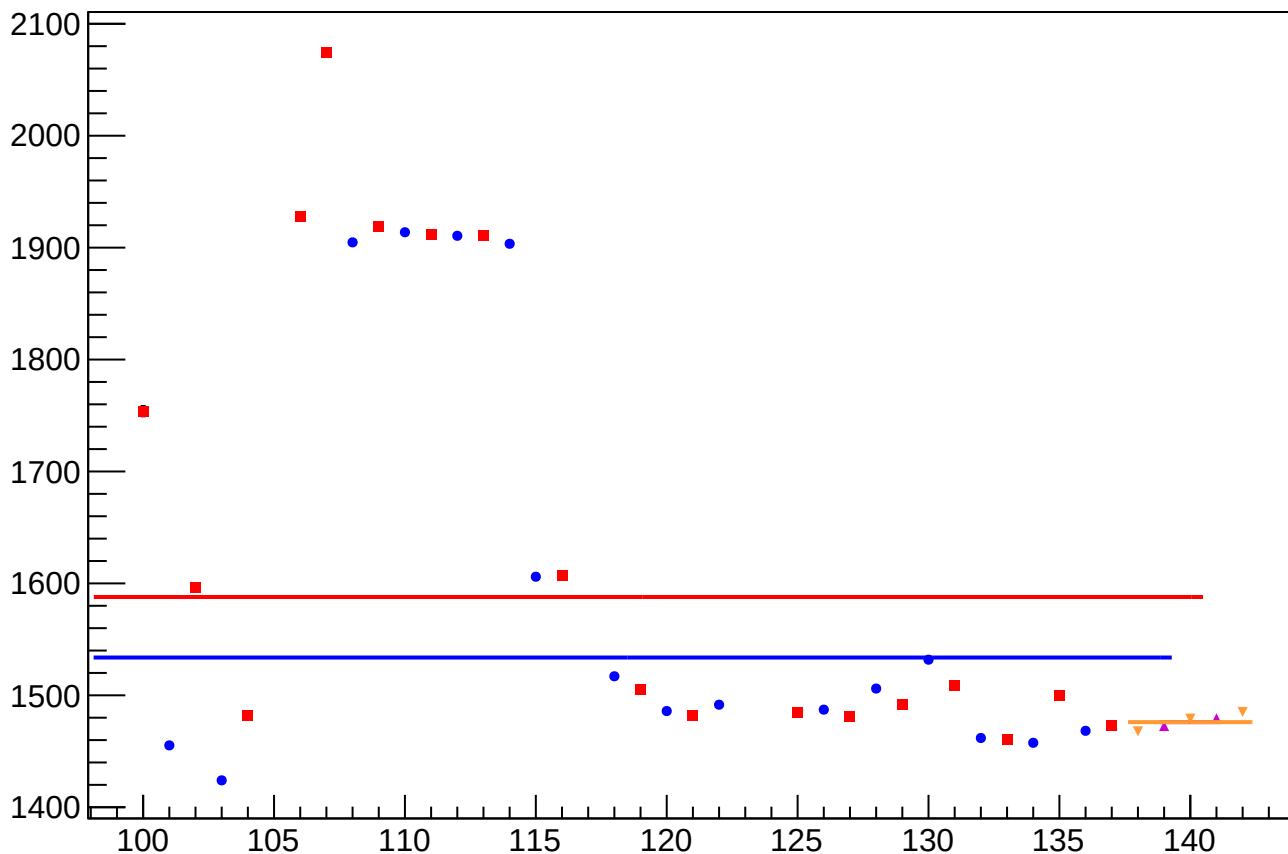
Right: 1797.197 $\pm$ 410.670 χ^2 /NDF: 28.4/33

In: 1628.565 $\pm$ 509.744 χ^2 /NDF:13.6/17

Out: 1732.153 $\pm$ 511.418 χ^2 /NDF:18.6/20

All: 1680.190 $\pm$ 361.034 χ^2 /NDF: 32.2/38

cor_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1533.771+/-0.405 χ^2/NDF : 129271.5/15

Left Out: 1476.053+/-0.726 χ^2/NDF : 89.6/2

Right Out: 1587.846+/-0.417 χ^2/NDF : 173766.9/17

Left In: 1476.042+/-0.793 χ^2/NDF : 18.4/1

Left: 1476.048+/-0.536 χ^2/NDF : 108.0/4

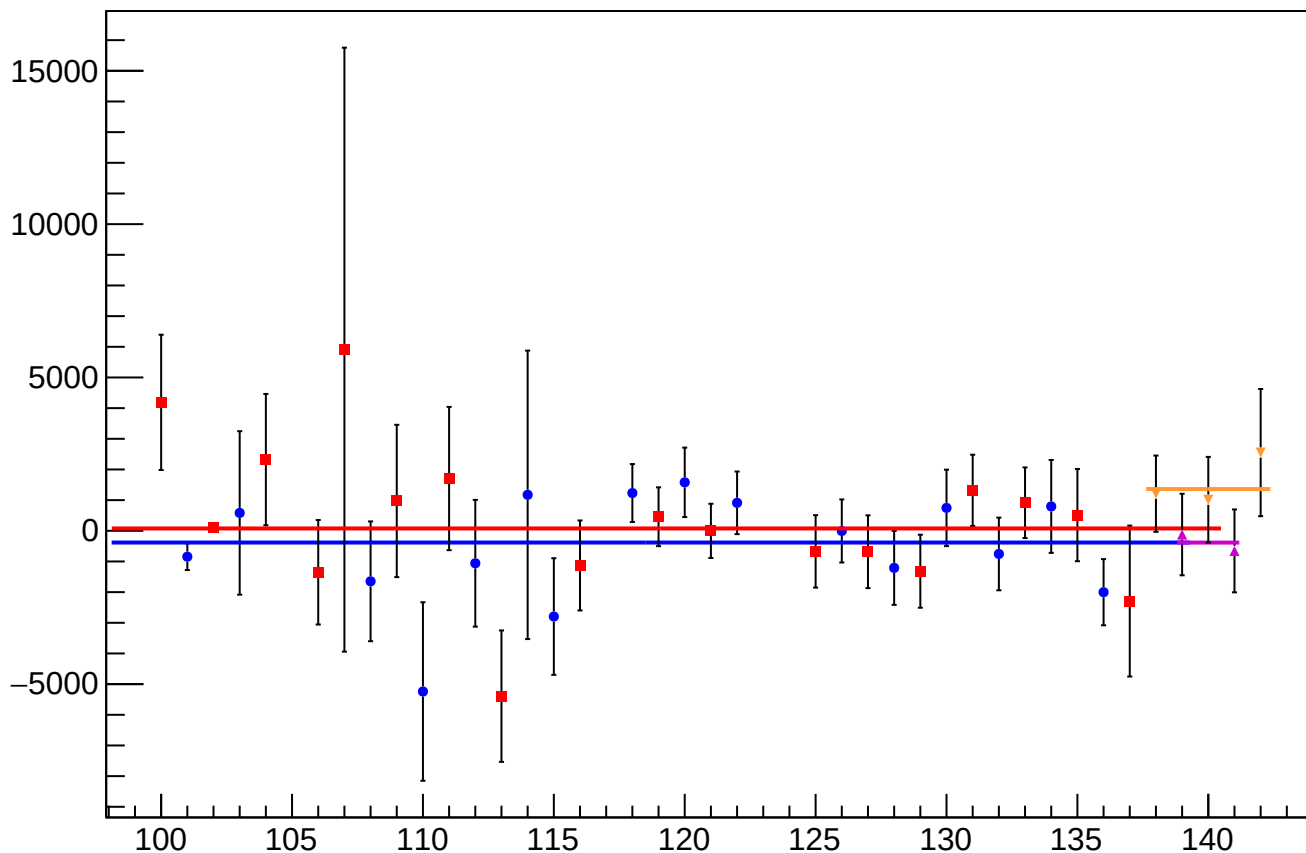
Right: 1559.996+/-0.290 χ^2/NDF : 311699.9/33

In: 1521.849+/-0.360 χ^2/NDF : 133493.3/17

Out: 1560.136+/-0.362 χ^2/NDF : 191673.4/20

All: 1540.930+/-0.255 χ^2/NDF : 330789.5/38

asym_usl_atl1_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -382.761+/-272.209 χ^2/NDF : 18.2/15

Left Out: 1361.434+/-847.584 χ^2/NDF : 0.4/2

Right Out: 76.754+/-138.137 χ^2/NDF : 18.5/17

Left In: -384.258+/-947.620 χ^2/NDF : 0.1/1

Left: 585.565+/-631.749 χ^2/NDF : 2.4/4

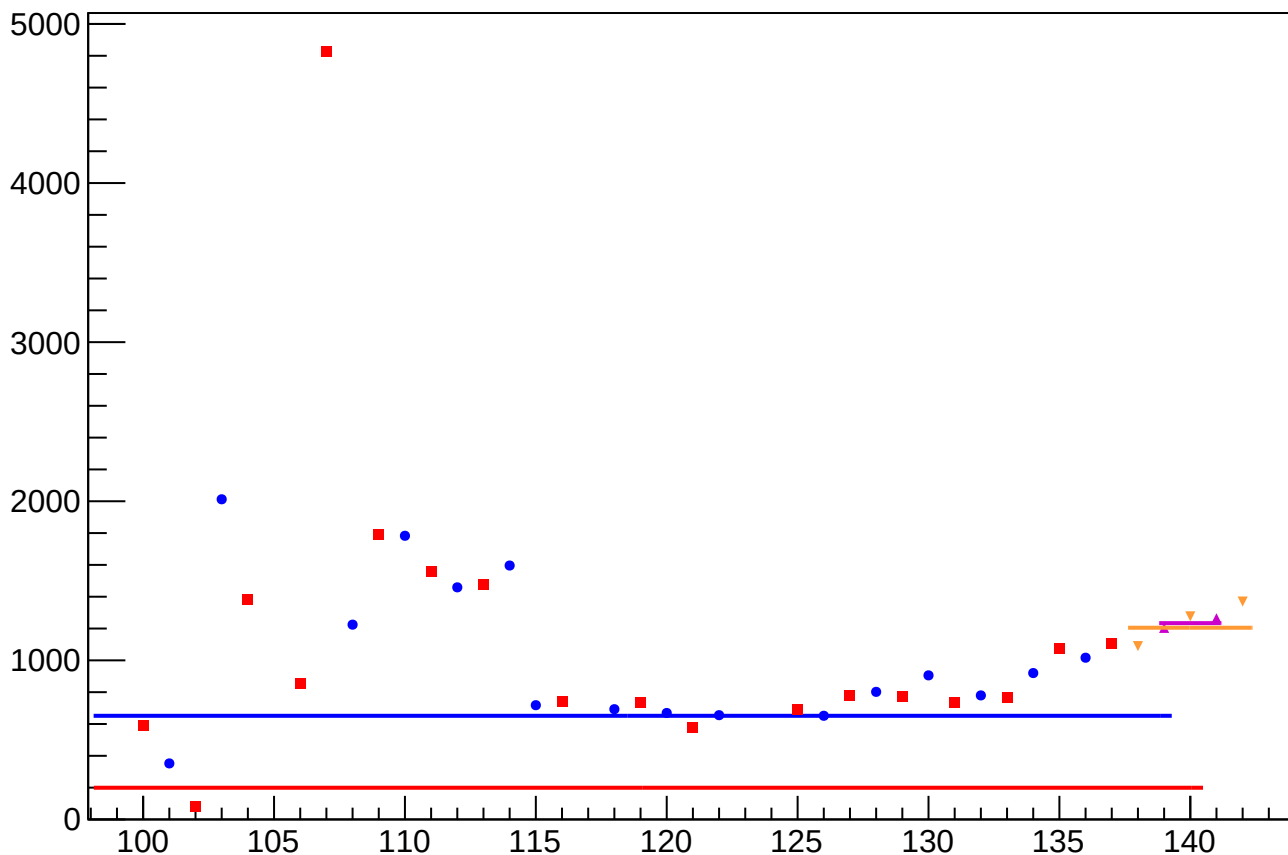
Right: -17.348+/-123.184 χ^2/NDF : 38.9/33

In: -382.875+/-261.629 χ^2/NDF : 18.3/17

Out: 109.994+/-136.338 χ^2/NDF : 21.1/20

All: 4.735+/-120.907 χ^2/NDF : 42.2/38

asym_usl_atl1_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 651.521+/-0.192 χ^2/NDF : 2762681.5/15

Left Out: 1205.073+/-0.599 χ^2/NDF :35115.0/2

Right Out: 199.344+/-0.098 χ^2/NDF : 9284792.6/17

Left In: 1233.967+/-0.670 χ^2/NDF :2027.8/1

Left: 1217.915+/-0.447 χ^2/NDF : 38175.8/4

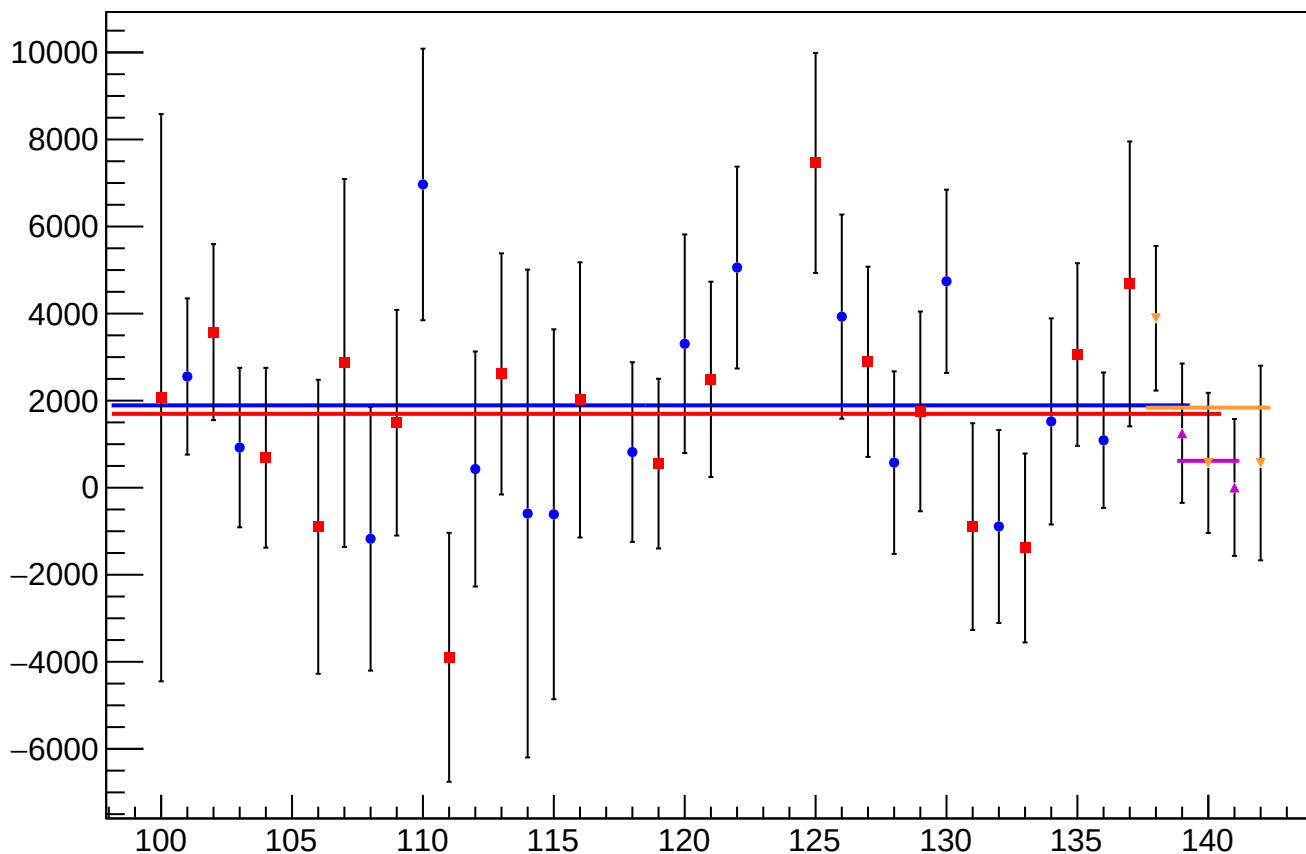
Right: 291.943+/-0.087 χ^2/NDF : 16436092.9/33

In: 695.919+/-0.185 χ^2/NDF :3462681.2/17

Out: 225.366+/-0.096 χ^2/NDF :12063010.0/20

All: 325.860+/-0.085 χ^2/NDF : 20613594.3/38

eigen_cor_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1891.562 $\pm$ 572.244 χ^2 /NDF: 12.2/15

Left Out: 1838.858 $\pm$ 1027.211 χ^2 /NDF:2.5/2

Right Out: 1696.987 $\pm$ 589.699 χ^2 /NDF: 16.2/17

Left In: 618.030 $\pm$ 1121.714 χ^2 /NDF:0.3/1

Left: 1282.029 $\pm$ 757.558 χ^2 /NDF: 3.4/4

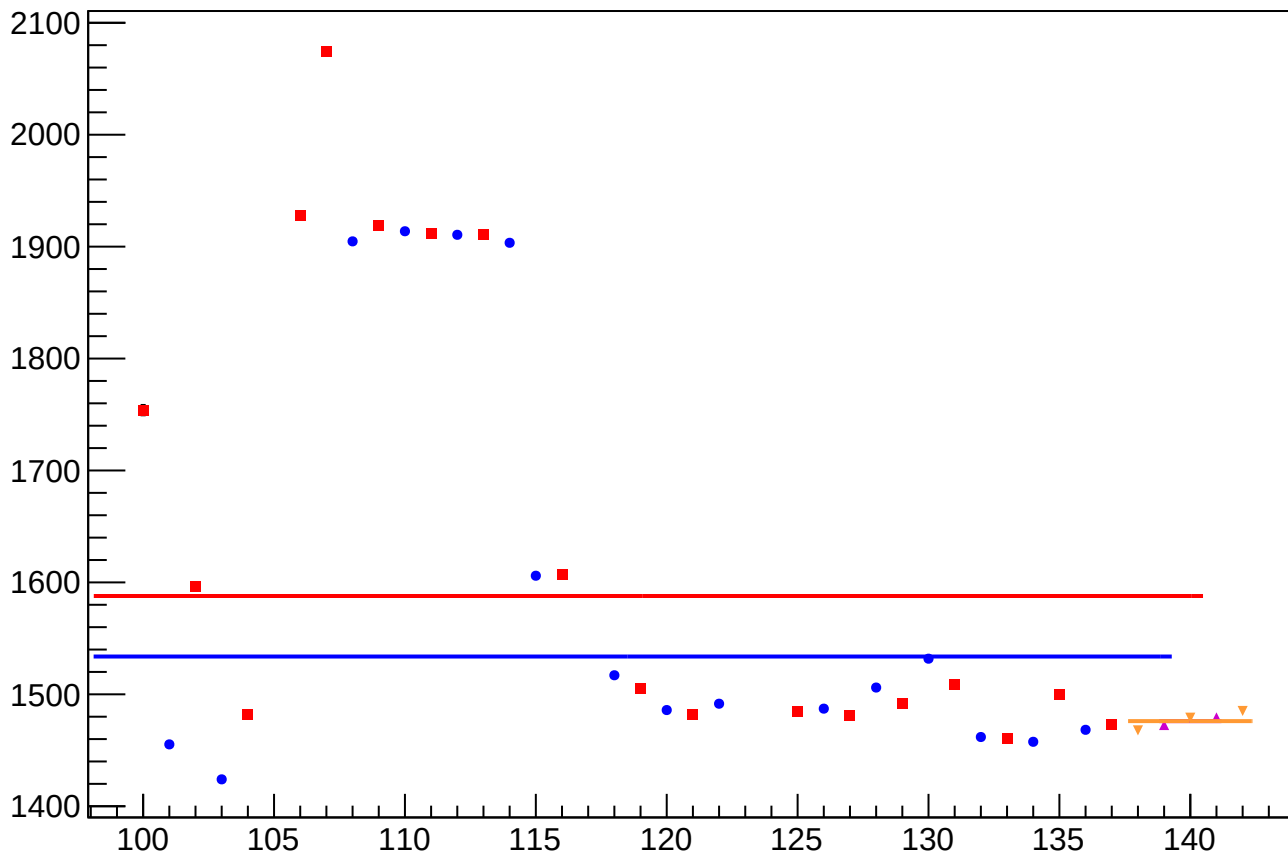
Right: 1797.197 $\pm$ 410.670 χ^2 /NDF: 28.4/33

In: 1628.565 $\pm$ 509.744 χ^2 /NDF:13.6/17

Out: 1732.153 $\pm$ 511.418 χ^2 /NDF:18.6/20

All: 1680.190 $\pm$ 361.034 χ^2 /NDF: 32.2/38

eigen_cor_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1533.771+/-0.405 χ^2/NDF : 129271.5/15

Left Out: 1476.053+/-0.726 χ^2/NDF : 89.6/2

Right Out: 1587.846+/-0.417 χ^2/NDF : 173766.9/17

Left In: 1476.042+/-0.793 χ^2/NDF : 18.4/1

Left: 1476.048+/-0.536 χ^2/NDF : 108.0/4

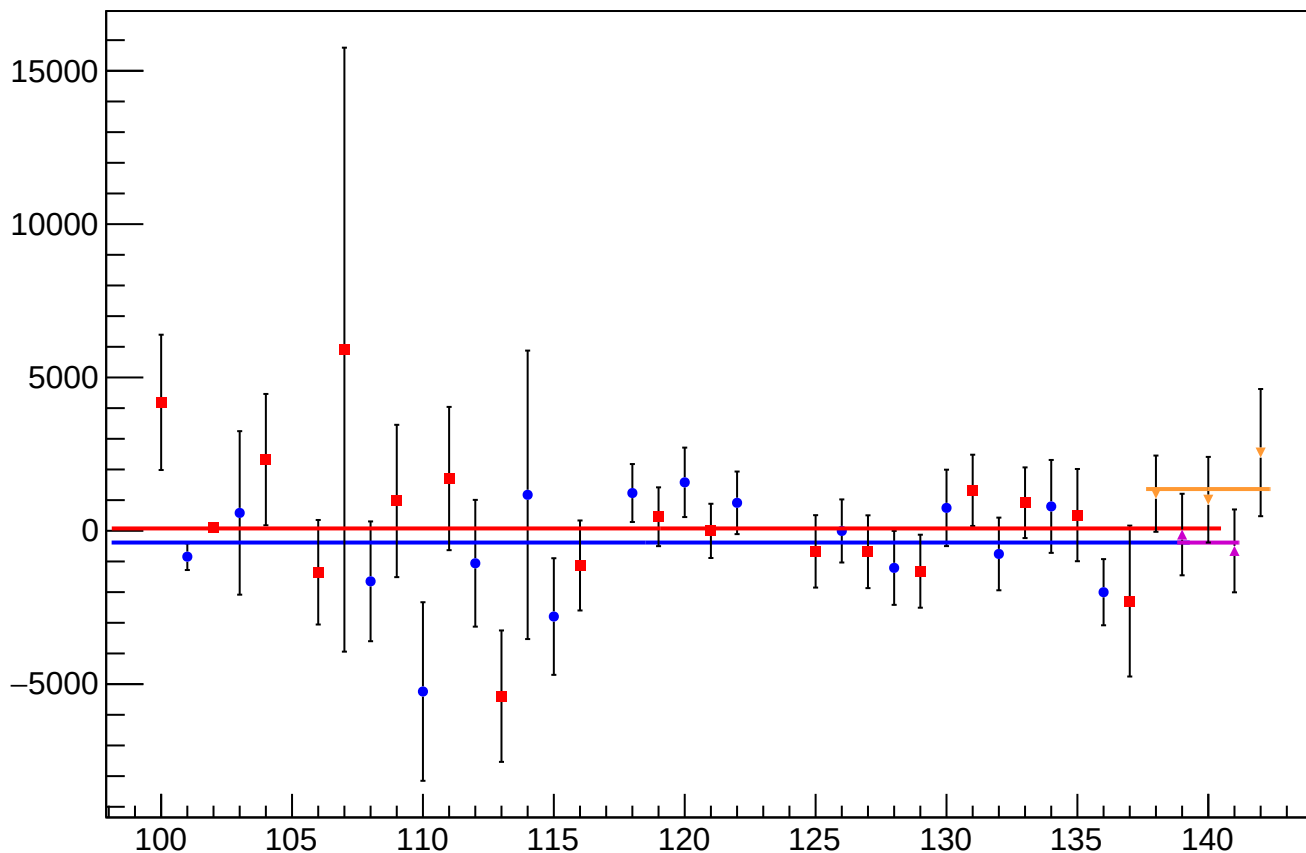
Right: 1559.996+/-0.290 χ^2/NDF : 311699.9/33

In: 1521.849+/-0.360 χ^2/NDF : 133493.3/17

Out: 1560.136+/-0.362 χ^2/NDF : 191673.4/20

All: 1540.930+/-0.255 χ^2/NDF : 330789.5/38

asym_usl_atl1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -382.761+/-272.209 χ^2/NDF : 18.2/15

Left Out: 1361.434+/-847.584 χ^2/NDF : 0.4/2

Right Out: 76.754+/-138.137 χ^2/NDF : 18.5/17

Left In: -384.258+/-947.620 χ^2/NDF : 0.1/1

Left: 585.565+/-631.749 χ^2/NDF : 2.4/4

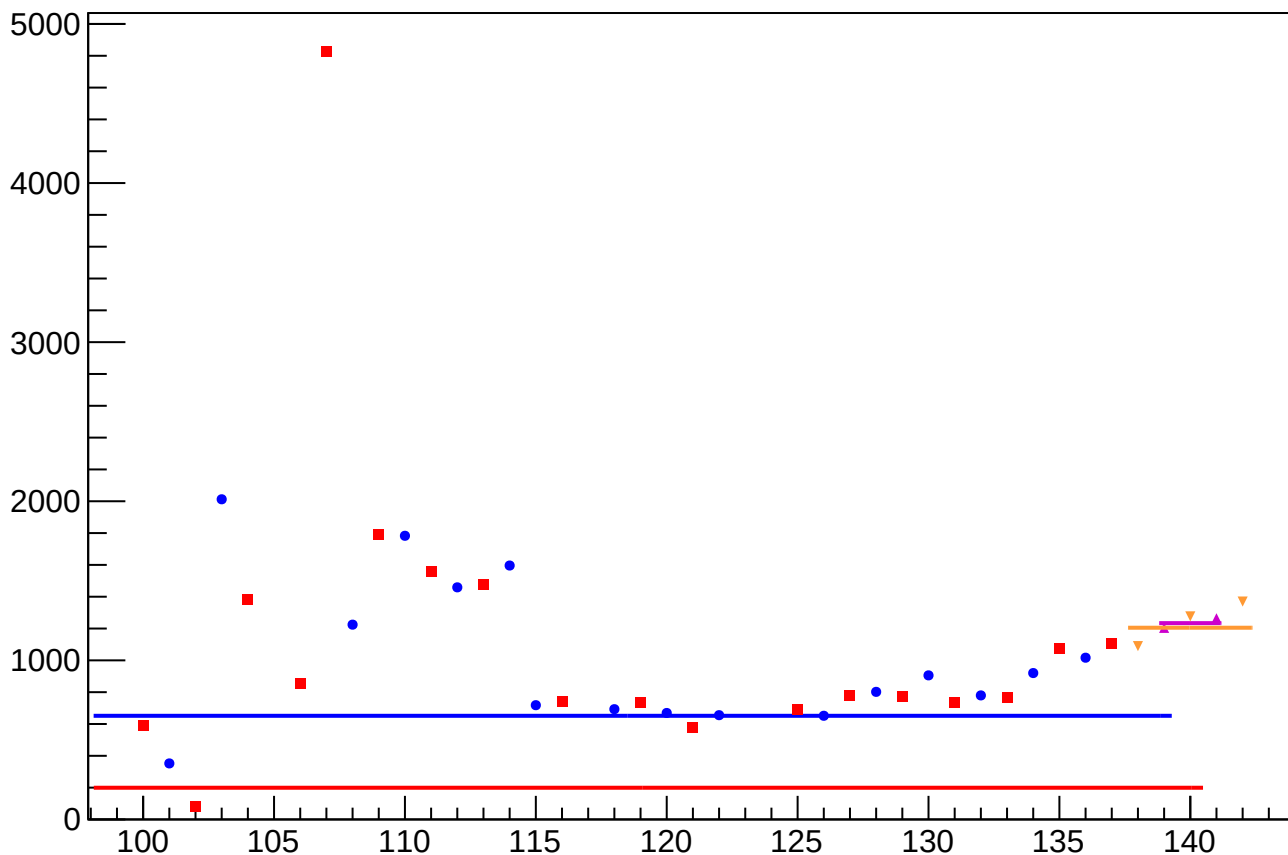
Right: -17.348+/-123.184 χ^2/NDF : 38.9/33

In: -382.875+/-261.629 χ^2/NDF : 18.3/17

Out: 109.994+/-136.338 χ^2/NDF : 21.1/20

All: 4.735+/-120.907 χ^2/NDF : 42.2/38

asym_usl_atl1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 651.521+/-0.192 χ^2/NDF : 2762681.5/15

Left Out: 1205.073+/-0.599 χ^2/NDF :35115.0/2

Right Out: 199.344+/-0.098 χ^2/NDF : 9284792.6/17

Left In: 1233.967+/-0.670 χ^2/NDF :2027.8/1

Left: 1217.915+/-0.447 χ^2/NDF : 38175.8/4

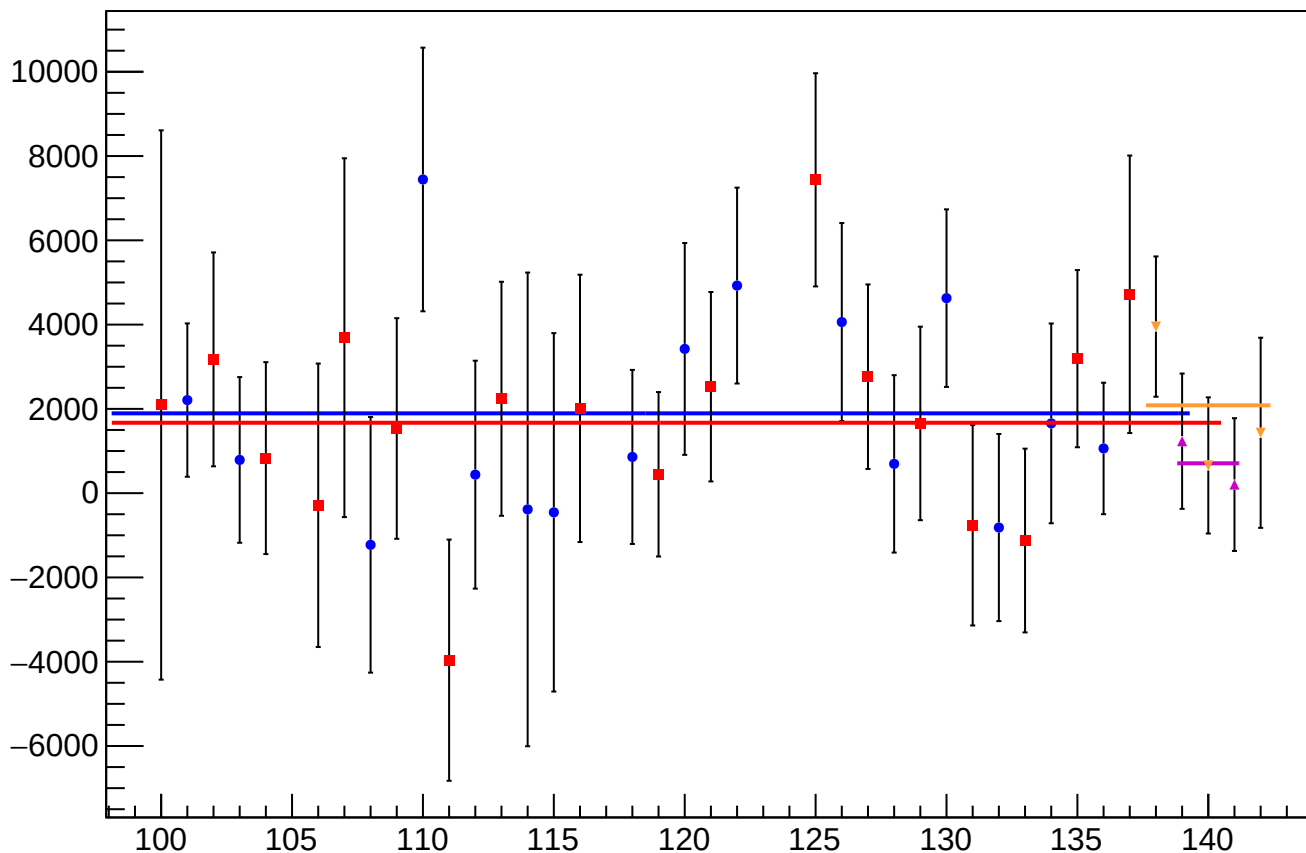
Right: 291.943+/-0.087 χ^2/NDF : 16436092.9/33

In: 695.919+/-0.185 χ^2/NDF :3462681.2/17

Out: 225.366+/-0.096 χ^2/NDF :12063010.0/20

All: 325.860+/-0.085 χ^2/NDF : 20613594.3/38

dit_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1894.171+/-577.631 χ^2/NDF : 12.3/15

Left Out: 2083.960+/-1031.296 χ^2/NDF : 2.1/2

Right Out: 1670.933+/-604.838 χ^2/NDF : 15.0/17

Left In: 708.640+/-1124.518 χ^2/NDF : 0.2/1

Left: 1455.661+/-760.060 χ^2/NDF : 3.1/4

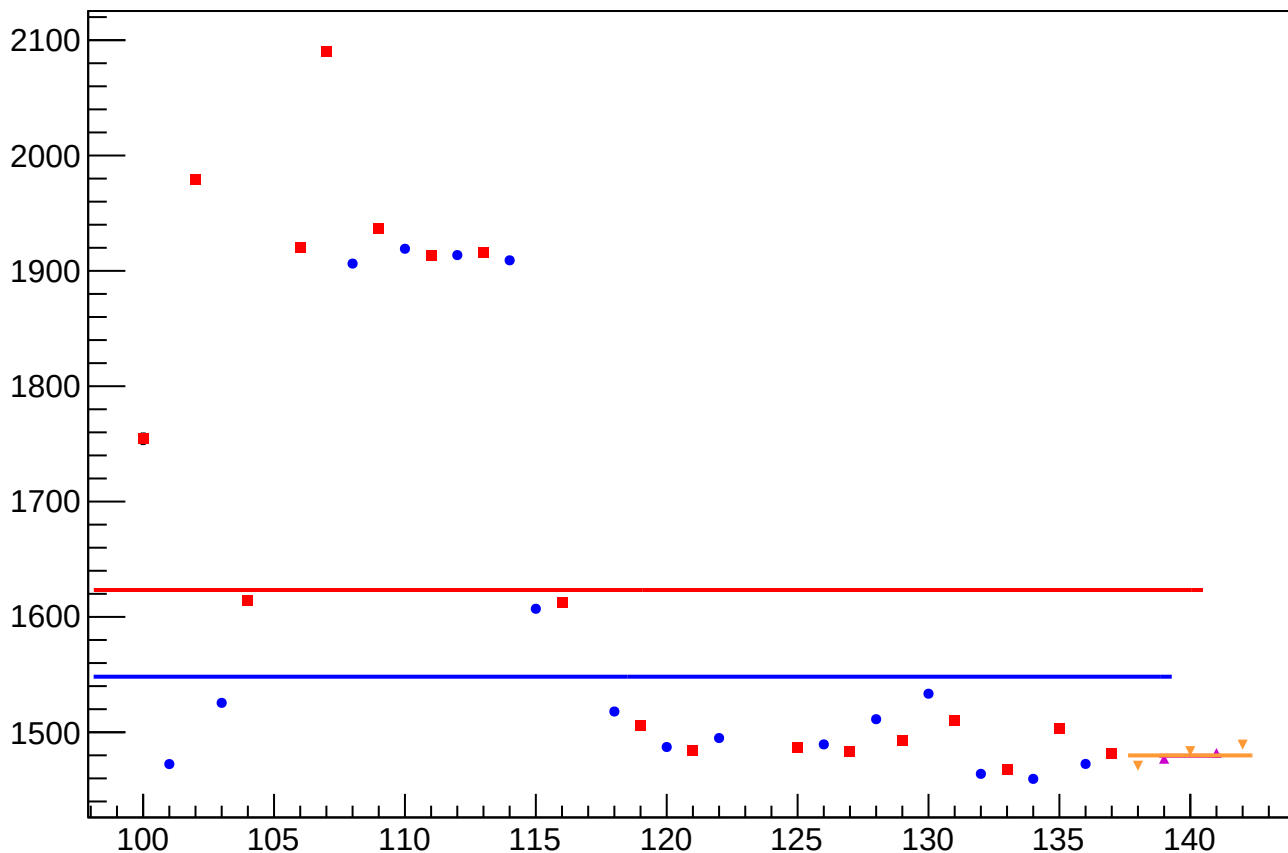
Right: 1787.686+/-417.734 χ^2/NDF : 27.4/33

In: 1646.667+/-513.809 χ^2/NDF : 13.4/17

Out: 1776.640+/-521.730 χ^2/NDF : 17.3/20

All: 1710.659+/-366.086 χ^2/NDF : 30.7/38

dit_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1548.174+/-0.408 χ^2/NDF : 119905.3/15

Left Out: 1479.918+/-0.729 χ^2/NDF :102.6/2

Right Out: 1623.331+/-0.428 χ^2/NDF : 211534.0/17

Left In: 1479.603+/-0.795 χ^2/NDF :9.7/1

Left: 1479.774+/-0.537 χ^2/NDF : 112.4/4

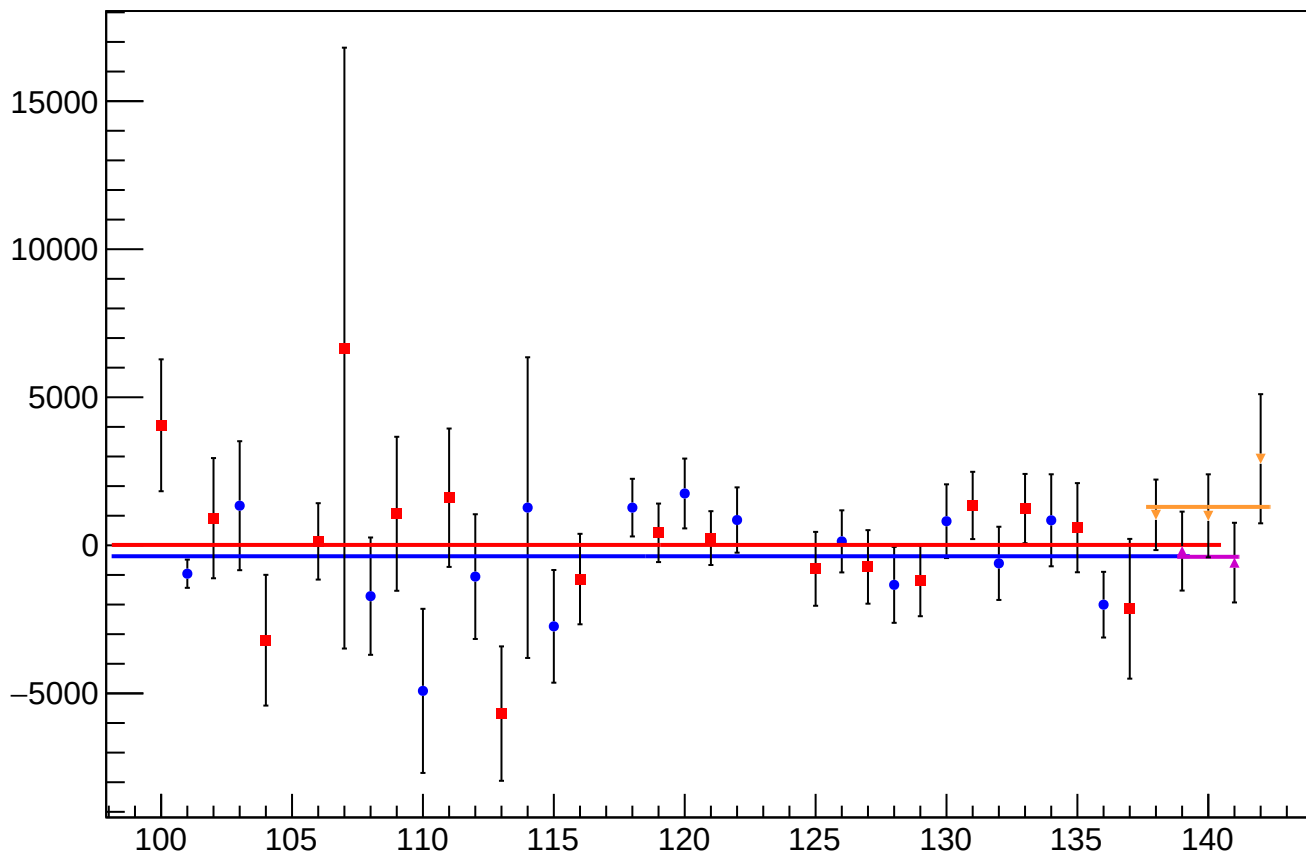
Right: 1584.024+/-0.295 χ^2/NDF : 347589.8/33

In: 1533.858+/-0.363 χ^2/NDF :125799.2/17

Out: 1586.627+/-0.369 χ^2/NDF :240413.8/20

All: 1559.839+/-0.259 χ^2/NDF : 376599.1/38

asym_usl_atl1_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -368.708+/-286.577 χ^2/NDF : 18.9/15

Left Out: 1297.790+/-837.705 χ^2/NDF : 0.7/2

Right Out: 13.729+/-341.569 χ^2/NDF : 19.1/17

Left In: -387.562+/-946.886 χ^2/NDF : 0.0/1

Left: 557.840+/-627.413 χ^2/NDF : 2.5/4

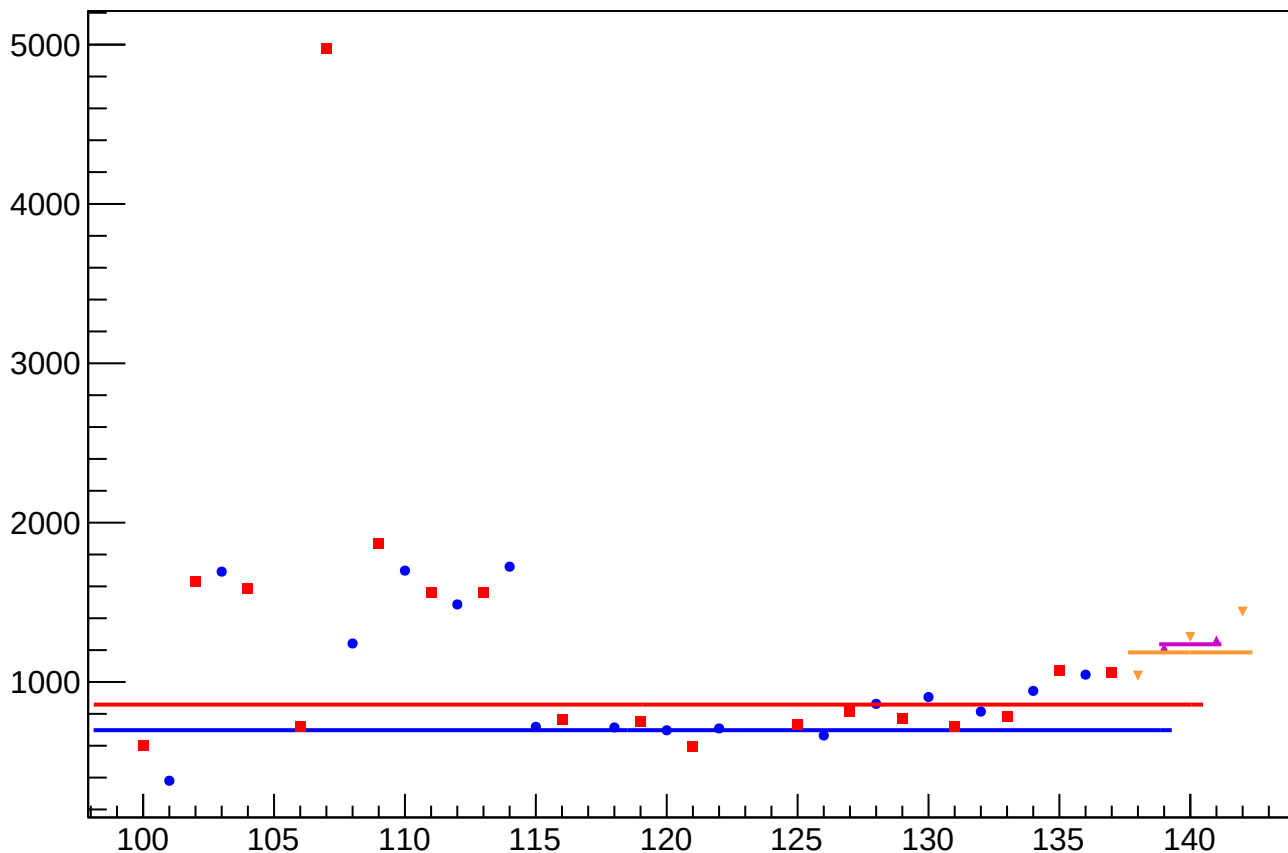
Right: -210.716+/-219.541 χ^2/NDF : 38.7/33

In: -370.290+/-274.290 χ^2/NDF : 18.9/17

Out: 196.778+/-316.287 χ^2/NDF : 21.7/20

All: -126.879+/-207.221 χ^2/NDF : 42.5/38

asym_usl_atl1_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 697.517+/-0.203 χ^2/NDF : 2435601.0/15

Left Out: 1185.454+/-0.592 χ^2/NDF : 67097.0/2

Right Out: 858.095+/-0.242 χ^2/NDF : 1882164.5/17

Left In: 1236.564+/-0.670 χ^2/NDF : 1289.3/1

Left: 1207.894+/-0.444 χ^2/NDF : 71654.9/4

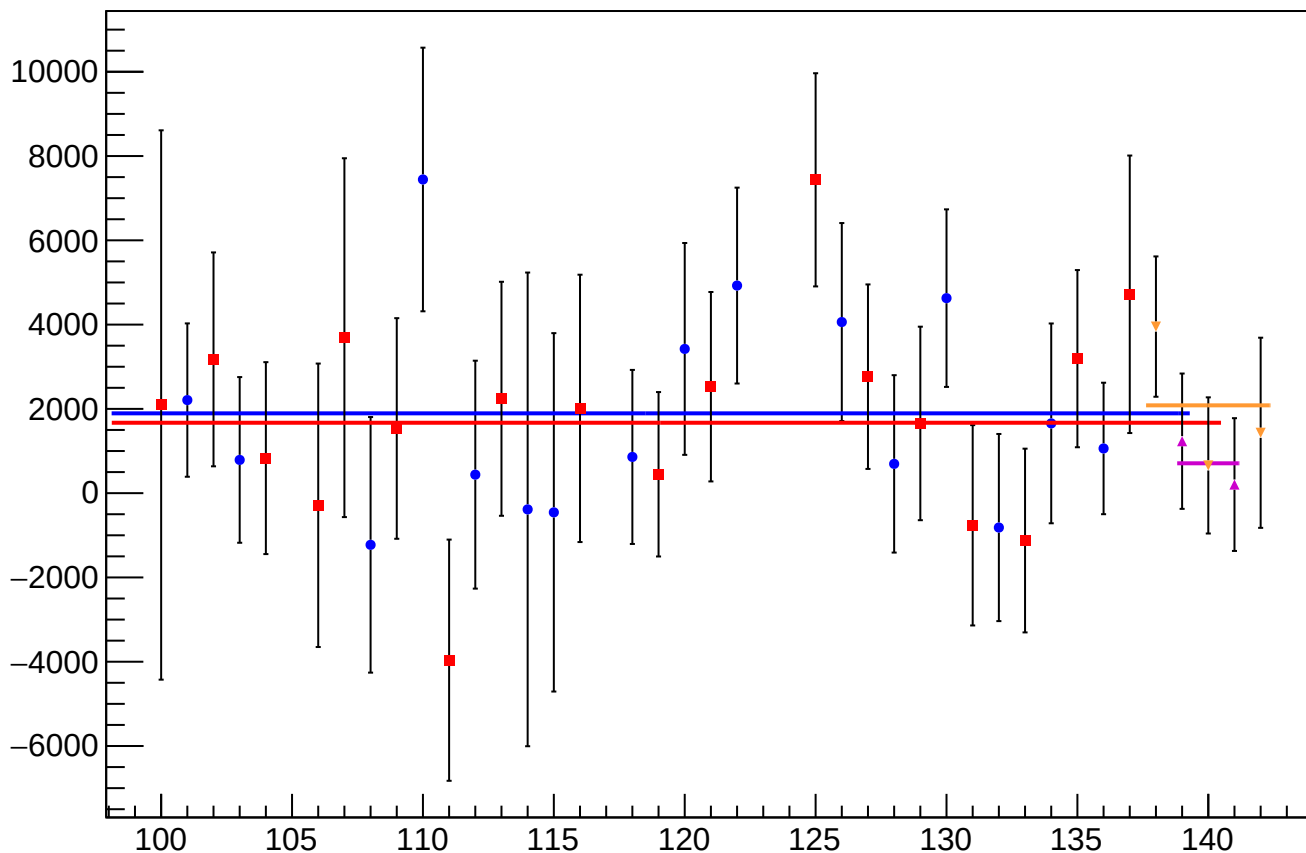
Right: 763.855+/-0.155 χ^2/NDF : 4577183.5/33

In: 742.749+/-0.194 χ^2/NDF : 3030670.3/17

Out: 904.762+/-0.224 χ^2/NDF : 2211141.2/20

All: 812.292+/-0.147 χ^2/NDF : 5541324.4/38

eigen_dit_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1894.169+/-577.630 χ^2/NDF : 12.3/15

Left Out: 2083.962+/-1031.296 χ^2/NDF : 2.1/2

Right Out: 1670.931+/-604.838 χ^2/NDF : 15.0/17

Left In: 708.641+/-1124.518 χ^2/NDF : 0.2/1

Left: 1455.663+/-760.060 χ^2/NDF : 3.1/4

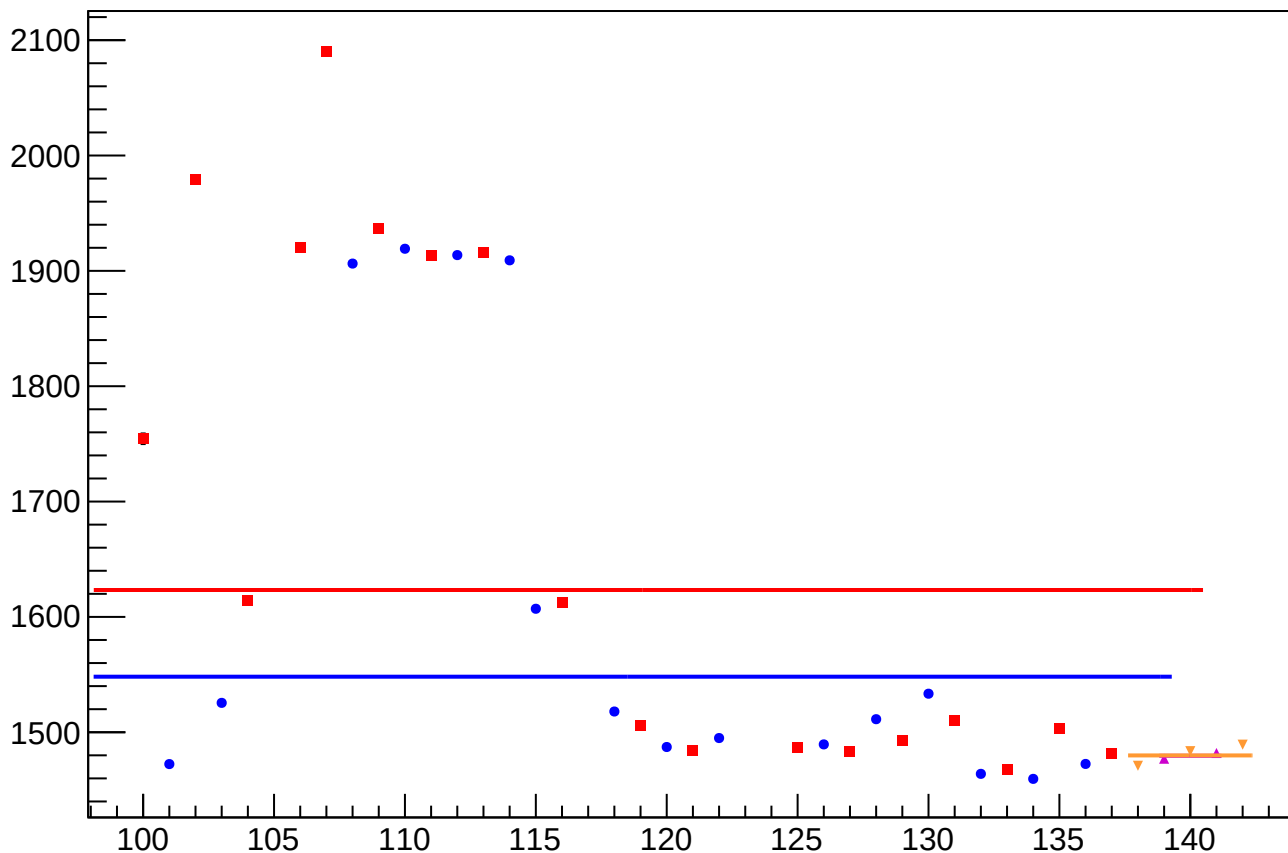
Right: 1787.684+/-417.734 χ^2/NDF : 27.4/33

In: 1646.666+/-513.808 χ^2/NDF : 13.4/17

Out: 1776.639+/-521.729 χ^2/NDF : 17.3/20

All: 1710.658+/-366.086 χ^2/NDF : 30.7/38

eigen_dit_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1548.174+/-0.408 χ^2/NDF : 119905.4/15

Left Out: 1479.918+/-0.729 χ^2/NDF :102.6/2

Right Out: 1623.330+/-0.428 χ^2/NDF : 211533.9/17

Left In: 1479.602+/-0.795 χ^2/NDF :9.7/1

Left: 1479.774+/-0.537 χ^2/NDF : 112.4/4

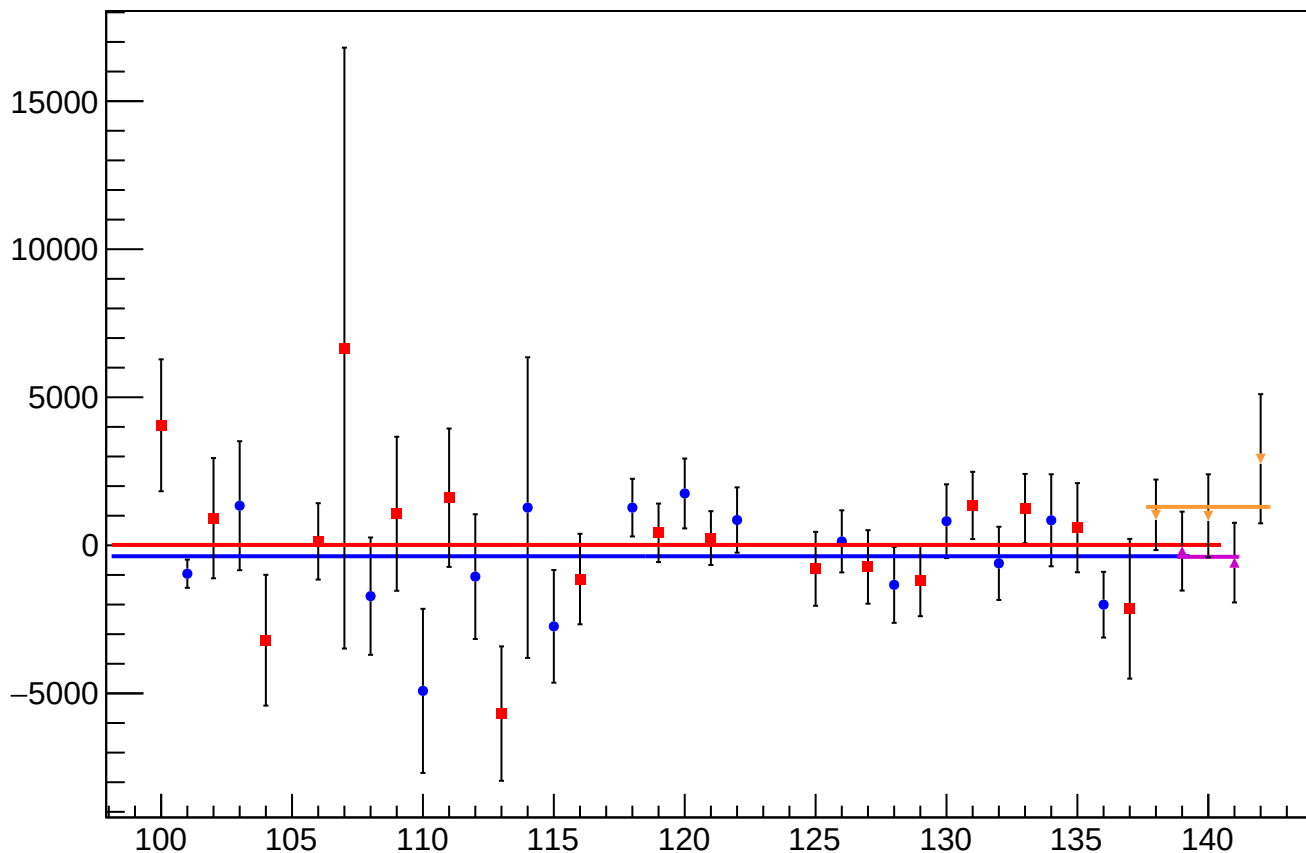
Right: 1584.024+/-0.295 χ^2/NDF : 347589.7/33

In: 1533.858+/-0.363 χ^2/NDF :125799.2/17

Out: 1586.627+/-0.369 χ^2/NDF :240413.5/20

All: 1559.839+/-0.259 χ^2/NDF : 376598.9/38

asym_usl_atl1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -368.707+/-286.576 χ^2/NDF : 18.9/15

Left Out: 1297.793+/-837.706 χ^2/NDF : 0.7/2

Right Out: 13.730+/-341.568 χ^2/NDF : 19.1/17

Left In: -387.561+/-946.887 χ^2/NDF : 0.0/1

Left: 557.842+/-627.414 χ^2/NDF : 2.5/4

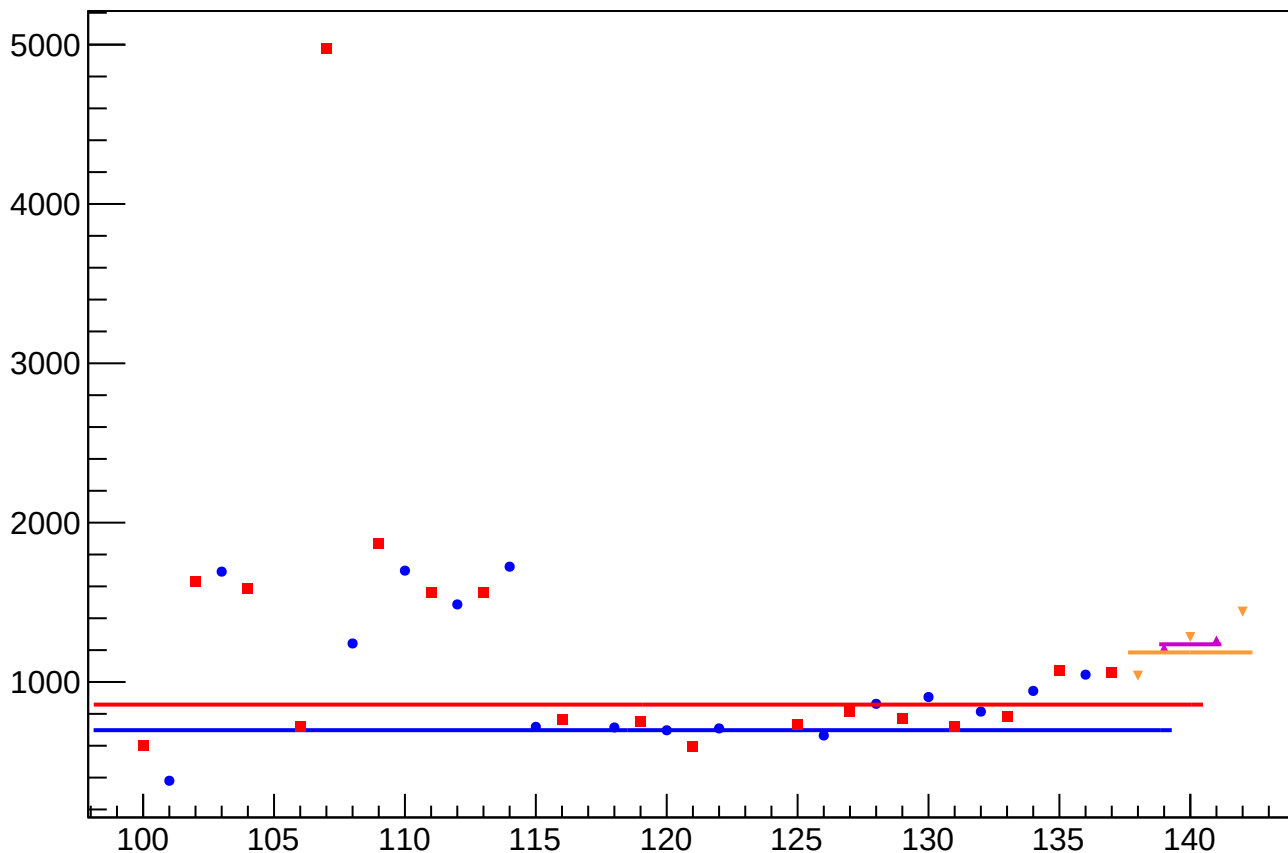
Right: -210.715+/-219.541 χ^2/NDF : 38.7/33

In: -370.289+/-274.290 χ^2/NDF : 18.9/17

Out: 196.778+/-316.287 χ^2/NDF : 21.7/20

All: -126.878+/-207.221 χ^2/NDF : 42.5/38

asym_usl_atl1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 697.517+/-0.203 χ^2/NDF : 2435593.9/15

Left Out: 1185.455+/-0.592 χ^2/NDF : 67097.2/2

Right Out: 858.094+/-0.242 χ^2/NDF : 1882174.1/17

Left In: 1236.565+/-0.670 χ^2/NDF : 1289.3/1

Left: 1207.895+/-0.444 χ^2/NDF : 71655.3/4

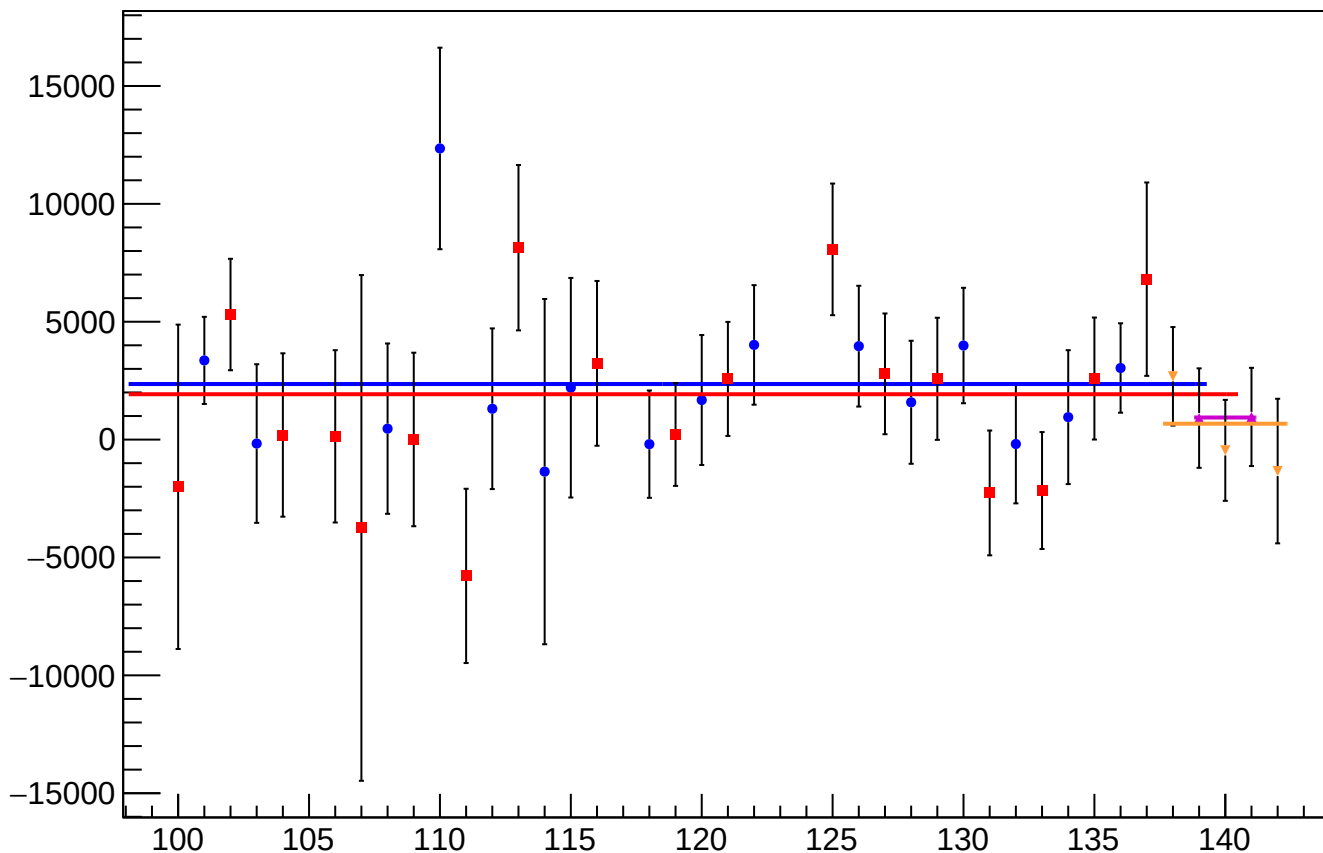
Right: 763.854+/-0.155 χ^2/NDF : 4577181.2/33

In: 742.749+/-0.194 χ^2/NDF : 3030665.0/17

Out: 904.760+/-0.224 χ^2/NDF : 2211155.3/20

All: 812.292+/-0.147 χ^2/NDF : 5541328.2/38

asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 2356.998 $\pm$ 678.944 χ^2 /NDF: 11.0/15

Left Out: 673.939 $\pm$ 1344.508 χ^2 /NDF:1.6/2

Right Out: 1924.824 $\pm$ 706.809 χ^2 /NDF: 23.4/17

Left In: 937.183 $\pm$ 1482.495 χ^2 /NDF:0.0/1

Left: 792.743 $\pm$ 995.930 χ^2 /NDF: 1.6/4

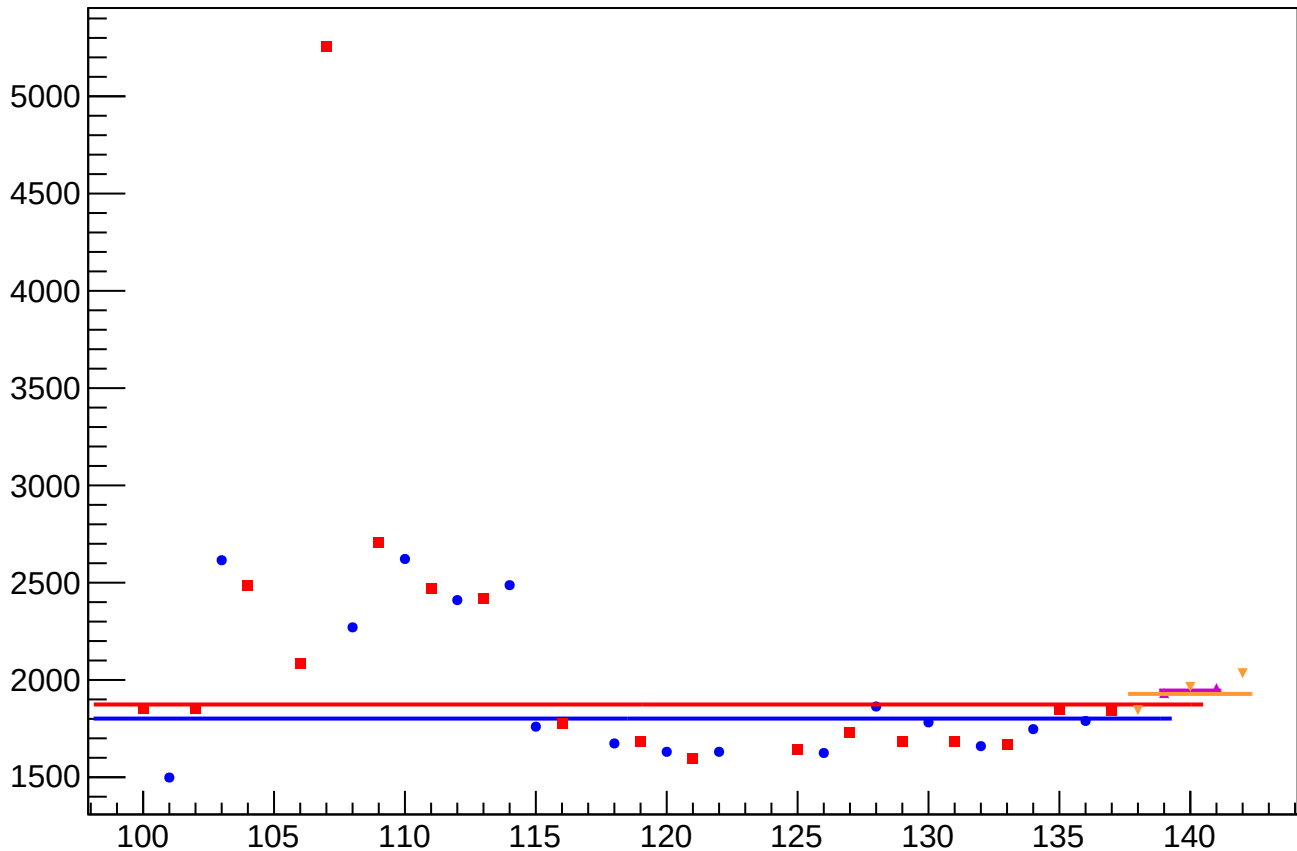
Right: 2149.598 $\pm$ 489.640 χ^2 /NDF: 34.6/33

In: 2110.836 $\pm$ 617.288 χ^2 /NDF:11.8/17

Out: 1653.979 $\pm$ 625.627 χ^2 /NDF:25.8/20

All: 1885.473 $\pm$ 439.407 χ^2 /NDF: 37.8/38

asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1801.529+/-0.480 χ^2/NDF : 400702.5/15

Left Out: 1928.313+/-0.951 χ^2/NDF : 6138.2/2

Right Out: 1873.976+/-0.500 χ^2/NDF : 569909.0/17

Left In: 1945.606+/-1.048 χ^2/NDF : 144.7/1

Left: 1936.117+/-0.704 χ^2/NDF : 6432.2/4

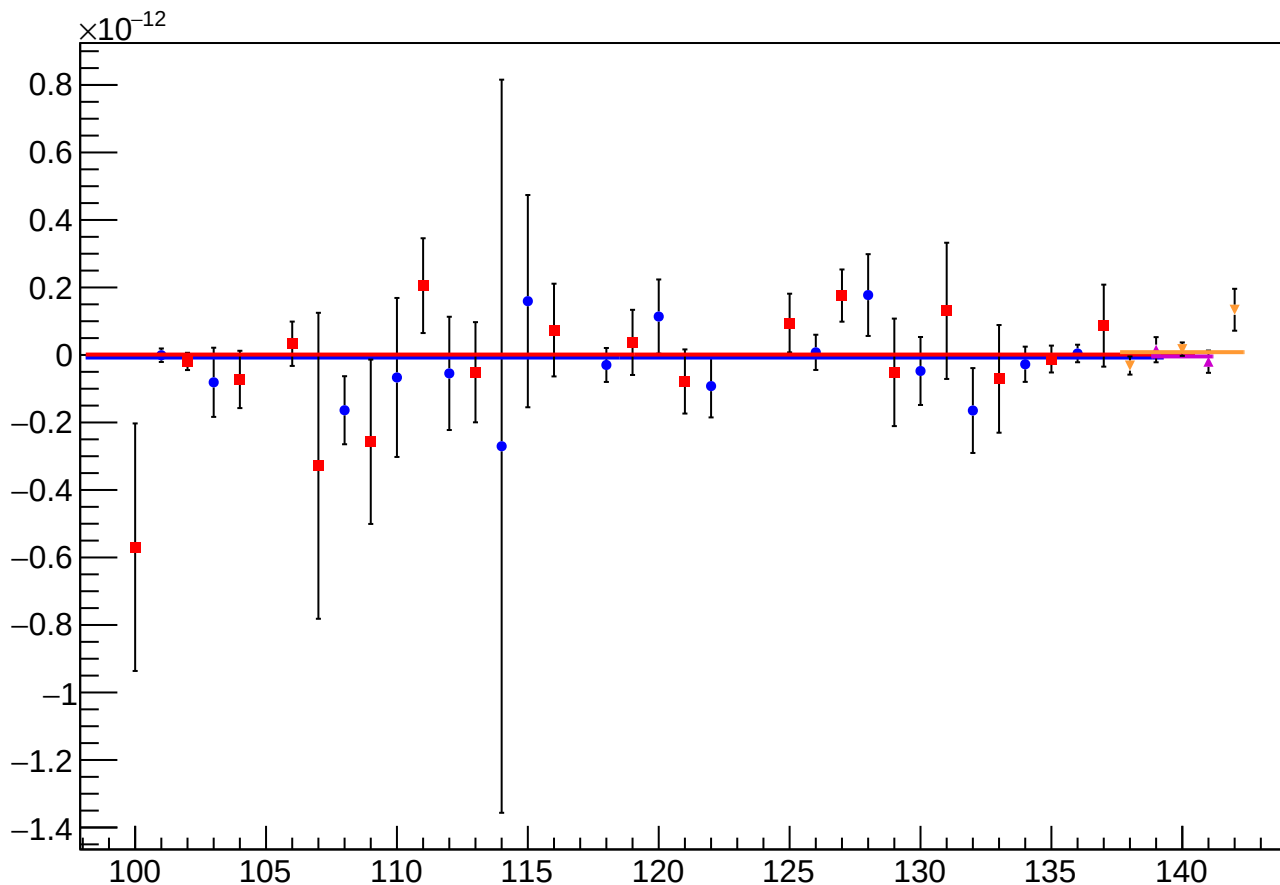
Right: 1836.296+/-0.346 χ^2/NDF : 981540.0/33

In: 1826.508+/-0.436 χ^2/NDF : 416462.2/17

Out: 1885.741+/-0.442 χ^2/NDF : 578606.4/20

All: 1855.727+/-0.311 χ^2/NDF : 1004152.8/38

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 10.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 6.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 16.7/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.5/1

Left: 0.000+/-0.000 χ^2/NDF : 7.2/4

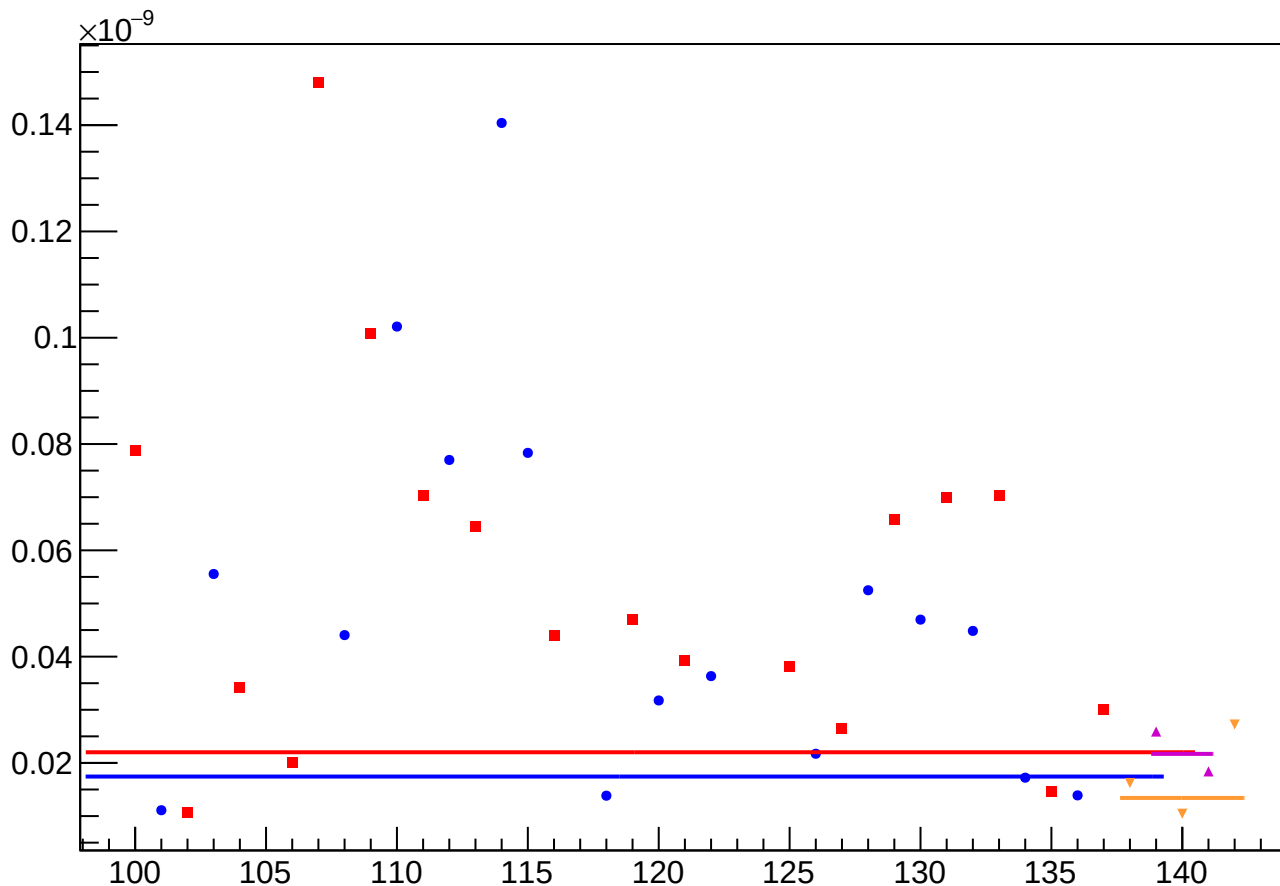
Right: -0.000+/-0.000 χ^2/NDF : 27.1/33

In: -0.000+/-0.000 χ^2/NDF : 10.8/17

Out: 0.000+/-0.000 χ^2/NDF : 23.2/20

All: -0.000+/-0.000 χ^2/NDF : 34.6/38

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1840069.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 165507.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2098640.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 45321.6/1

Left: 0.000+/-0.000 χ^2/NDF : 372356.1/4

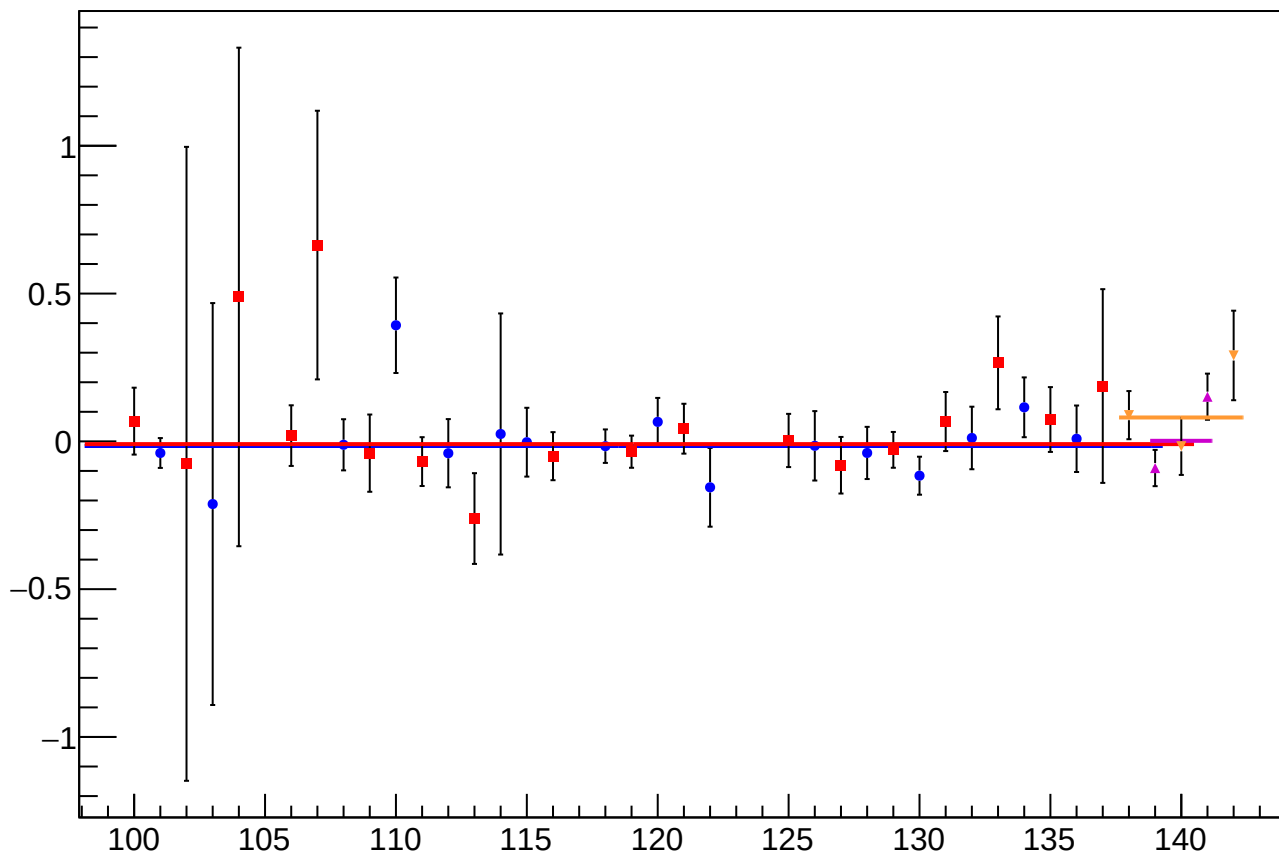
Right: 0.000+/-0.000 χ^2/NDF : 4028264.0/33

In: 0.000+/-0.000 χ^2/NDF : 1931855.0/17

Out: 0.000+/-0.000 χ^2/NDF : 2540755.9/20

All: 0.000+/-0.000 χ^2/NDF : 4481731.1/38

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.023 $\chi^2/\text{NDF}: 13.2/15$

Left Out: 0.081 ± 0.058 $\chi^2/\text{NDF}: 2.9/2$

Right Out: -0.009 ± 0.024 $\chi^2/\text{NDF}: 12.5/17$

Left In: 0.002 ± 0.048 $\chi^2/\text{NDF}: 5.9/1$

Left: 0.034 ± 0.037 $\chi^2/\text{NDF}: 9.9/4$

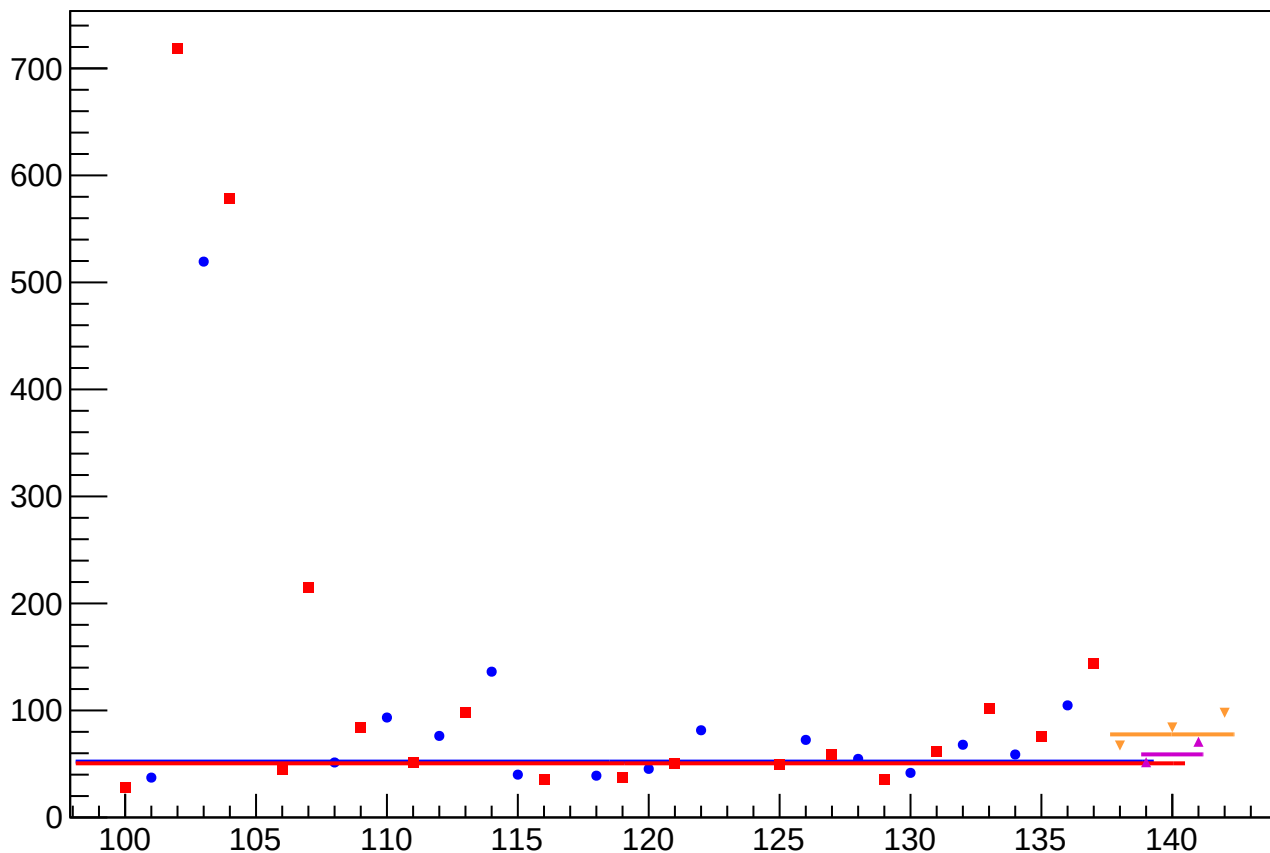
Right: -0.013 ± 0.016 $\chi^2/\text{NDF}: 25.7/33$

In: -0.012 ± 0.020 $\chi^2/\text{NDF}: 19.2/17$

Out: 0.004 ± 0.022 $\chi^2/\text{NDF}: 17.5/20$

All: -0.005 ± 0.015 $\chi^2/\text{NDF}: 37.0/38$

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.191+/-0.016 χ^2/NDF : 2266928.1/15

Left Out: 77.627+/-0.041 χ^2/NDF : 77150.8/2

Right Out: 50.582+/-0.017 χ^2/NDF : 3051379.6/17

Left In: 58.932+/-0.034 χ^2/NDF : 74358.6/1

Left: 66.623+/-0.026 χ^2/NDF : 275155.6/4

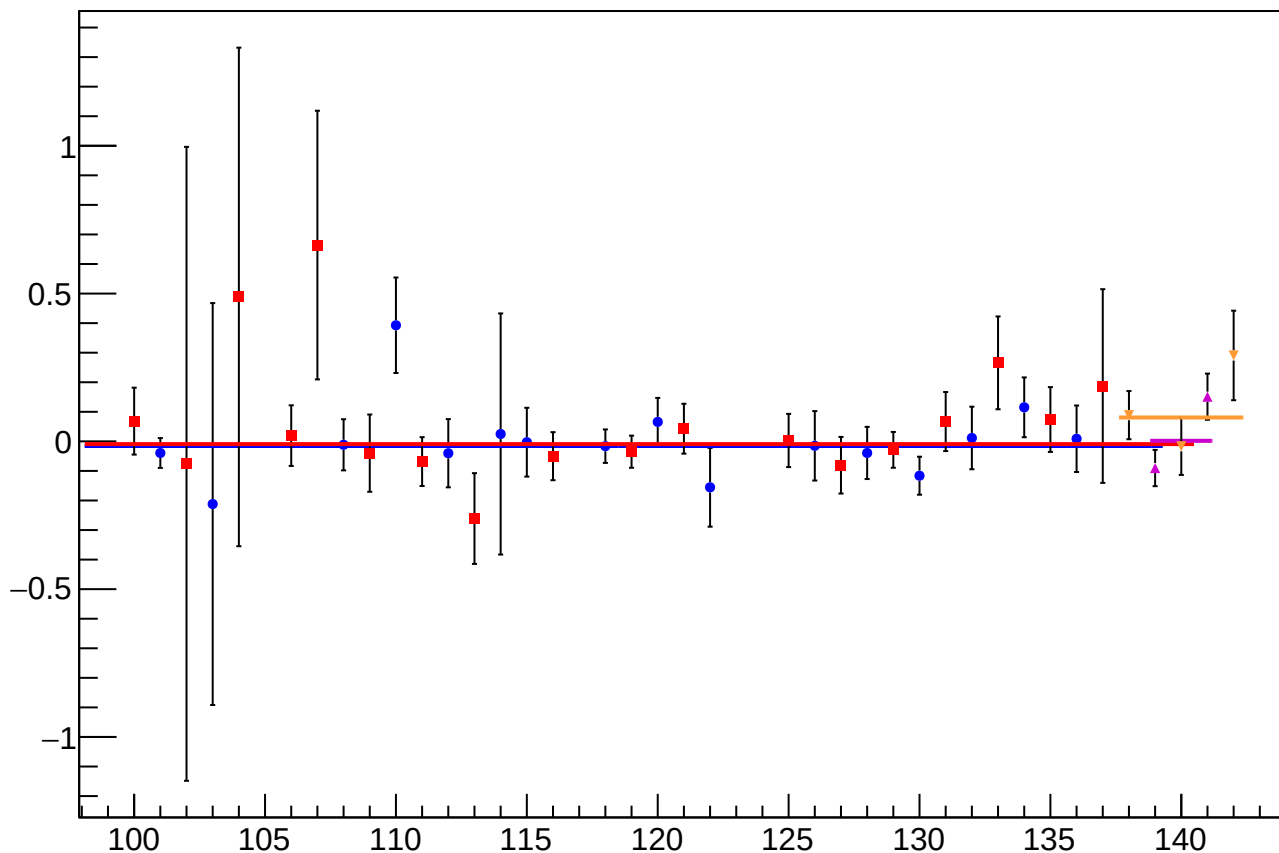
Right: 51.419+/-0.012 χ^2/NDF : 5323147.3/33

In: 53.409+/-0.014 χ^2/NDF : 2373314.3/17

Out: 54.459+/-0.015 χ^2/NDF : 3505133.0/20

All: 53.900+/-0.011 χ^2/NDF : 5880905.5/38

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.023 $\chi^2/\text{NDF}: 13.2/15$

Left Out: 0.081 ± 0.058 $\chi^2/\text{NDF}: 2.9/2$

Right Out: -0.009 ± 0.024 $\chi^2/\text{NDF}: 12.5/17$

Left In: 0.002 ± 0.048 $\chi^2/\text{NDF}: 5.9/1$

Left: 0.034 ± 0.037 $\chi^2/\text{NDF}: 9.9/4$

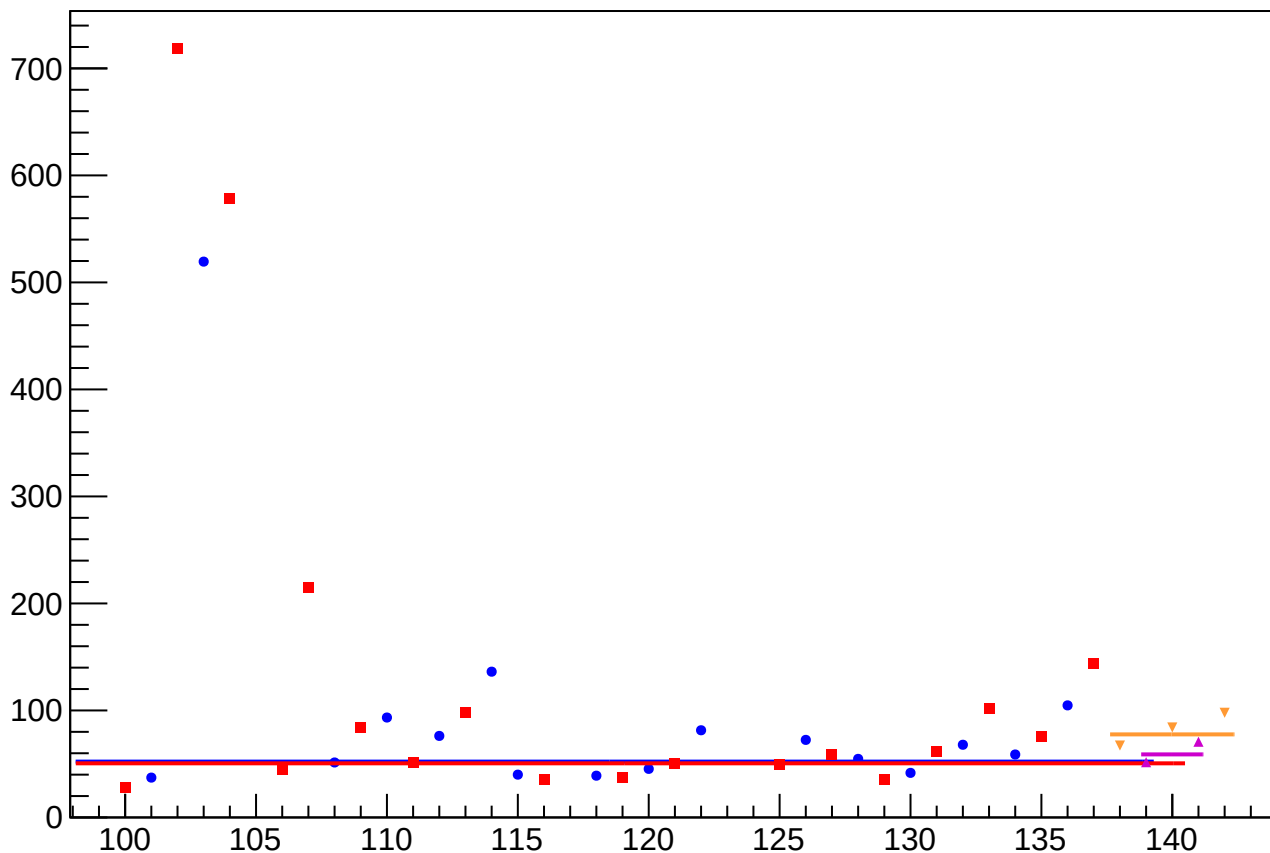
Right: -0.013 ± 0.016 $\chi^2/\text{NDF}: 25.7/33$

In: -0.012 ± 0.020 $\chi^2/\text{NDF}: 19.2/17$

Out: 0.004 ± 0.022 $\chi^2/\text{NDF}: 17.5/20$

All: -0.005 ± 0.015 $\chi^2/\text{NDF}: 37.0/38$

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.191+/-0.016 χ^2/NDF : 2266928.1/15

Left Out: 77.627+/-0.041 χ^2/NDF : 77150.8/2

Right Out: 50.582+/-0.017 χ^2/NDF : 3051379.6/17

Left In: 58.932+/-0.034 χ^2/NDF : 74358.6/1

Left: 66.623+/-0.026 χ^2/NDF : 275155.6/4

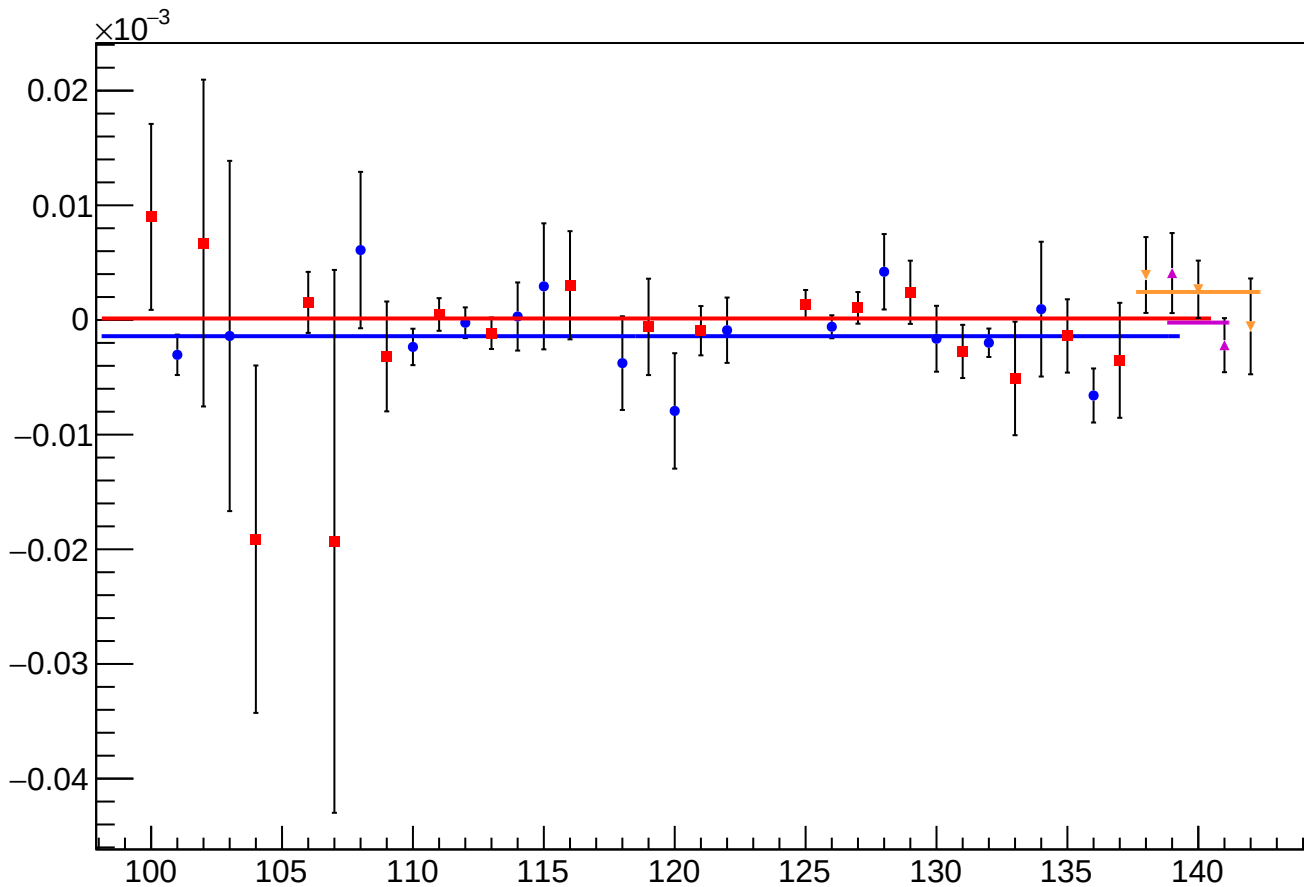
Right: 51.419+/-0.012 χ^2/NDF : 5323147.3/33

In: 53.409+/-0.014 χ^2/NDF : 2373314.3/17

Out: 54.459+/-0.015 χ^2/NDF : 3505133.0/20

All: 53.900+/-0.011 χ^2/NDF : 5880905.5/38

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 15.0/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.7/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 11.6/17

Left In: -0.000 ± 0.000 χ^2/NDF : 2.2/1

Left: 0.000 ± 0.000 χ^2/NDF : 4.0/4

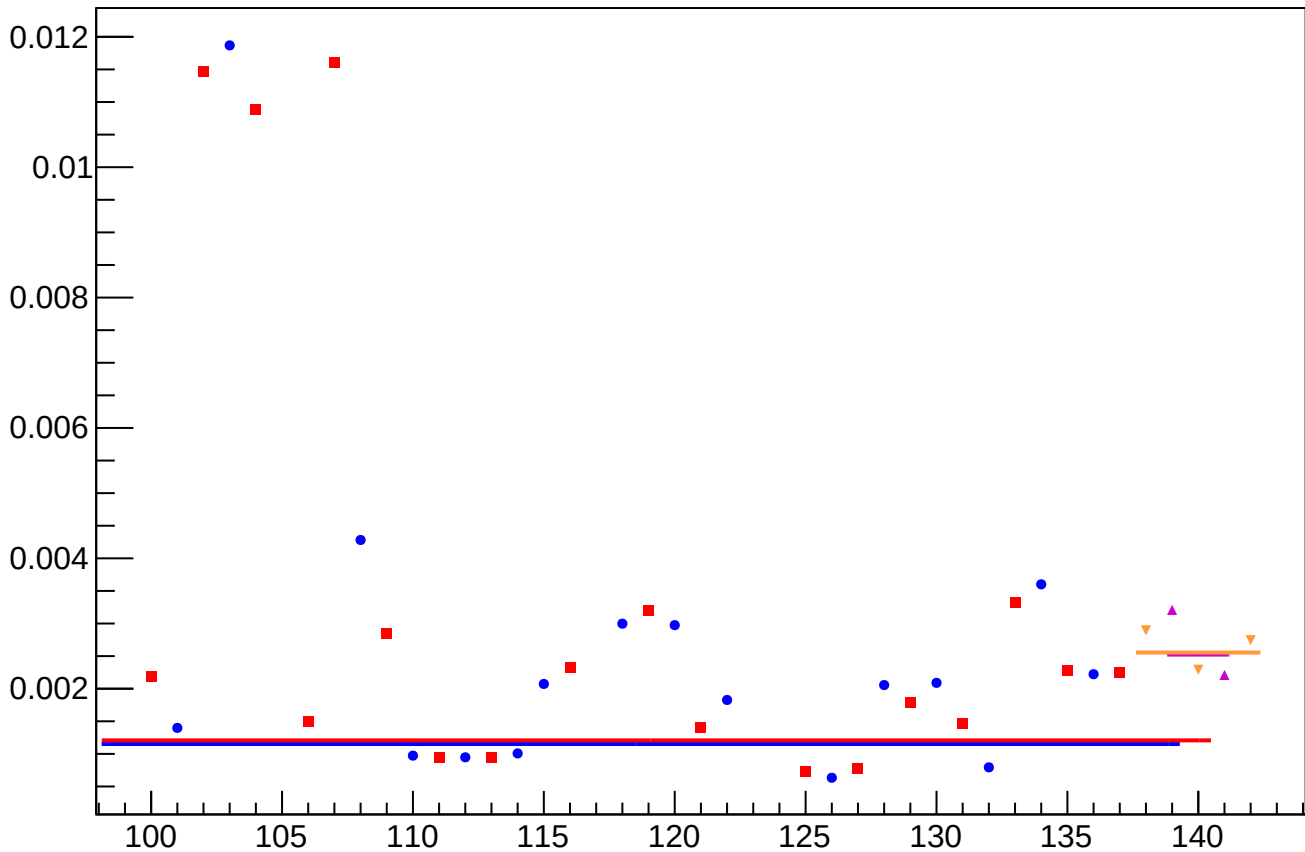
Right: -0.000 ± 0.000 χ^2/NDF : 30.7/33

In: -0.000 ± 0.000 χ^2/NDF : 17.5/17

Out: 0.000 ± 0.000 χ^2/NDF : 13.8/20

All: -0.000 ± 0.000 χ^2/NDF : 36.6/38

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 4187928.7/15

Left Out: 0.003+/-0.000 χ^2/NDF :47449.6/2

Right Out: 0.001+/-0.000 χ^2/NDF : 4521920.0/17

Left In: 0.003+/-0.000 χ^2/NDF :112371.6/1

Left: 0.003+/-0.000 χ^2/NDF : 160100.4/4

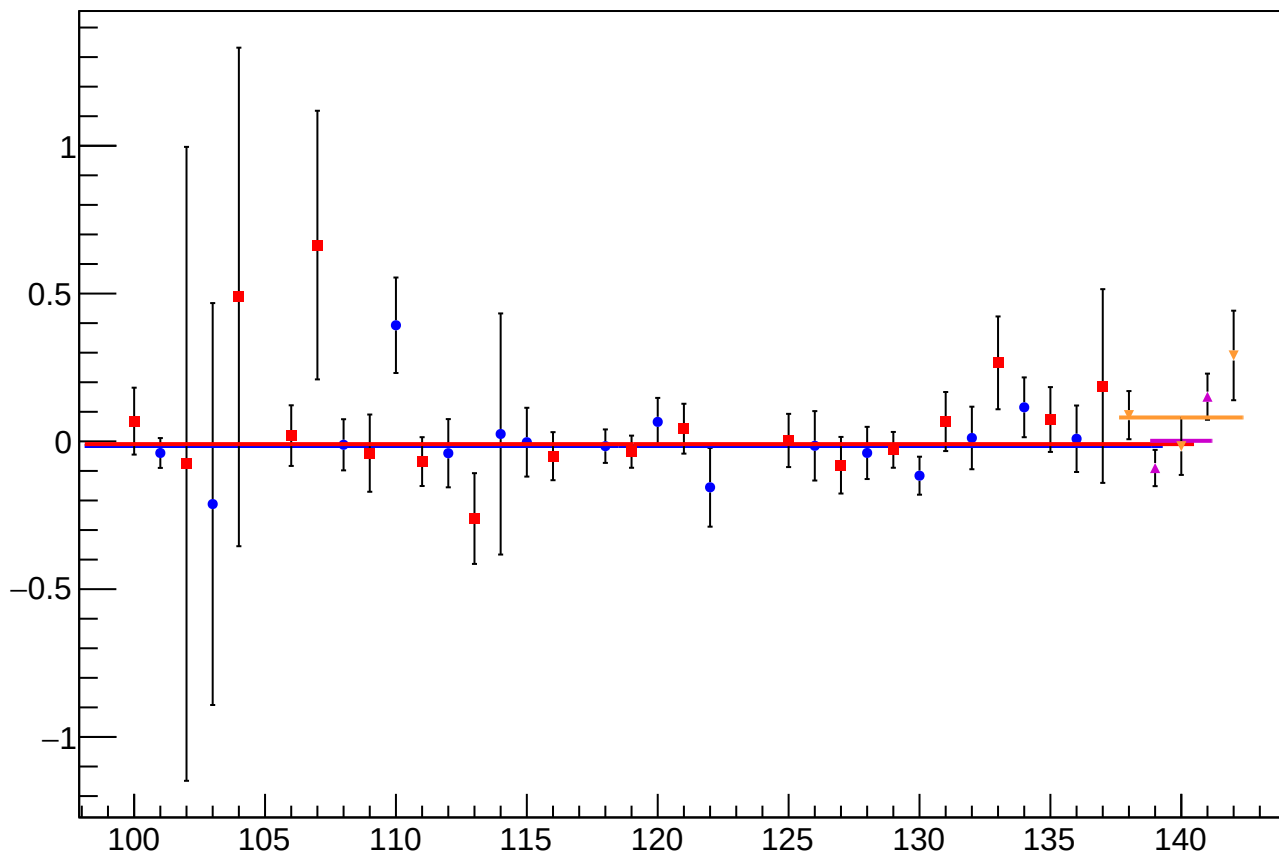
Right: 0.001+/-0.000 χ^2/NDF : 8720631.4/33

In: 0.001+/-0.000 χ^2/NDF :5221806.4/17

Out: 0.001+/-0.000 χ^2/NDF :5590365.5/20

All: 0.001+/-0.000 χ^2/NDF : 10838352.2/38

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.023 $\chi^2/\text{NDF}: 13.2/15$

Left Out: 0.081 ± 0.058 $\chi^2/\text{NDF}: 2.9/2$

Right Out: -0.009 ± 0.024 $\chi^2/\text{NDF}: 12.5/17$

Left In: 0.002 ± 0.048 $\chi^2/\text{NDF}: 5.9/1$

Left: 0.034 ± 0.037 $\chi^2/\text{NDF}: 9.9/4$

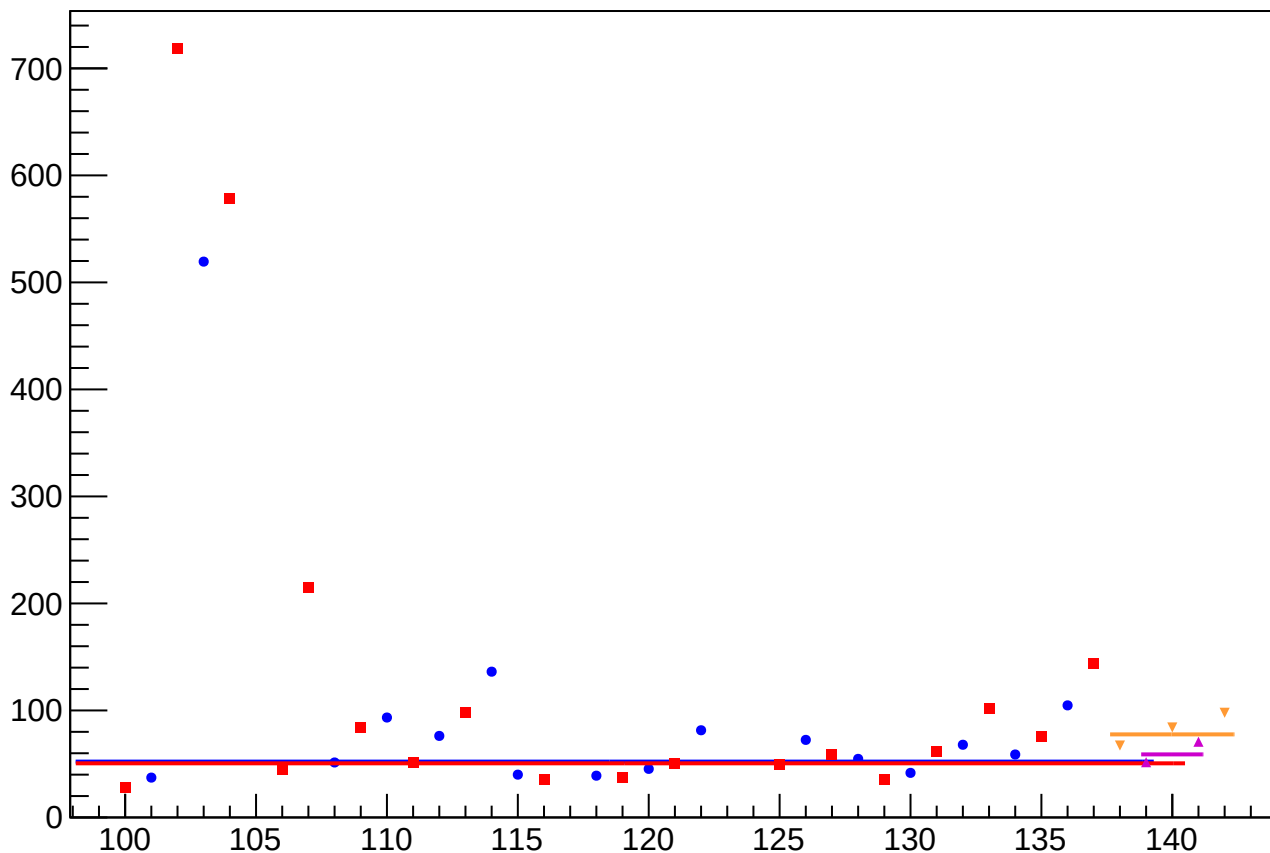
Right: -0.013 ± 0.016 $\chi^2/\text{NDF}: 25.7/33$

In: -0.012 ± 0.020 $\chi^2/\text{NDF}: 19.2/17$

Out: 0.004 ± 0.022 $\chi^2/\text{NDF}: 17.5/20$

All: -0.005 ± 0.015 $\chi^2/\text{NDF}: 37.0/38$

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.191+/-0.016 χ^2/NDF : 2266922.0/15

Left Out: 77.626+/-0.041 χ^2/NDF : 77154.5/2

Right Out: 50.582+/-0.017 χ^2/NDF : 3051364.2/17

Left In: 58.932+/-0.034 χ^2/NDF : 74358.3/1

Left: 66.622+/-0.026 χ^2/NDF : 275157.2/4

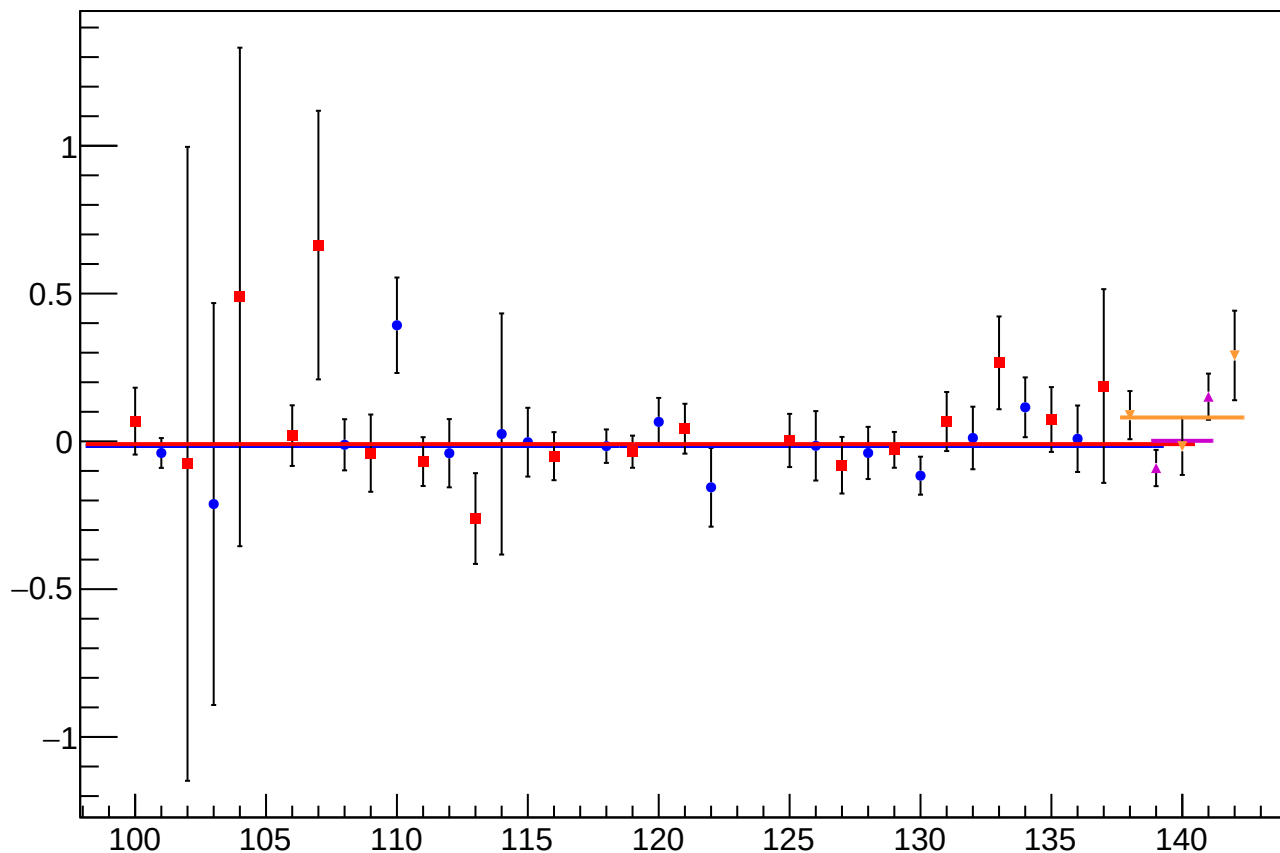
Right: 51.419+/-0.012 χ^2/NDF : 5323126.6/33

In: 53.408+/-0.014 χ^2/NDF : 2373307.9/17

Out: 54.458+/-0.015 χ^2/NDF : 3505121.5/20

All: 53.900+/-0.011 χ^2/NDF : 5880886.9/38

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.023 $\chi^2/\text{NDF}: 13.2/15$

Left Out: 0.081 ± 0.058 $\chi^2/\text{NDF}: 2.9/2$

Right Out: -0.009 ± 0.024 $\chi^2/\text{NDF}: 12.5/17$

Left In: 0.002 ± 0.048 $\chi^2/\text{NDF}: 5.9/1$

Left: 0.034 ± 0.037 $\chi^2/\text{NDF}: 9.9/4$

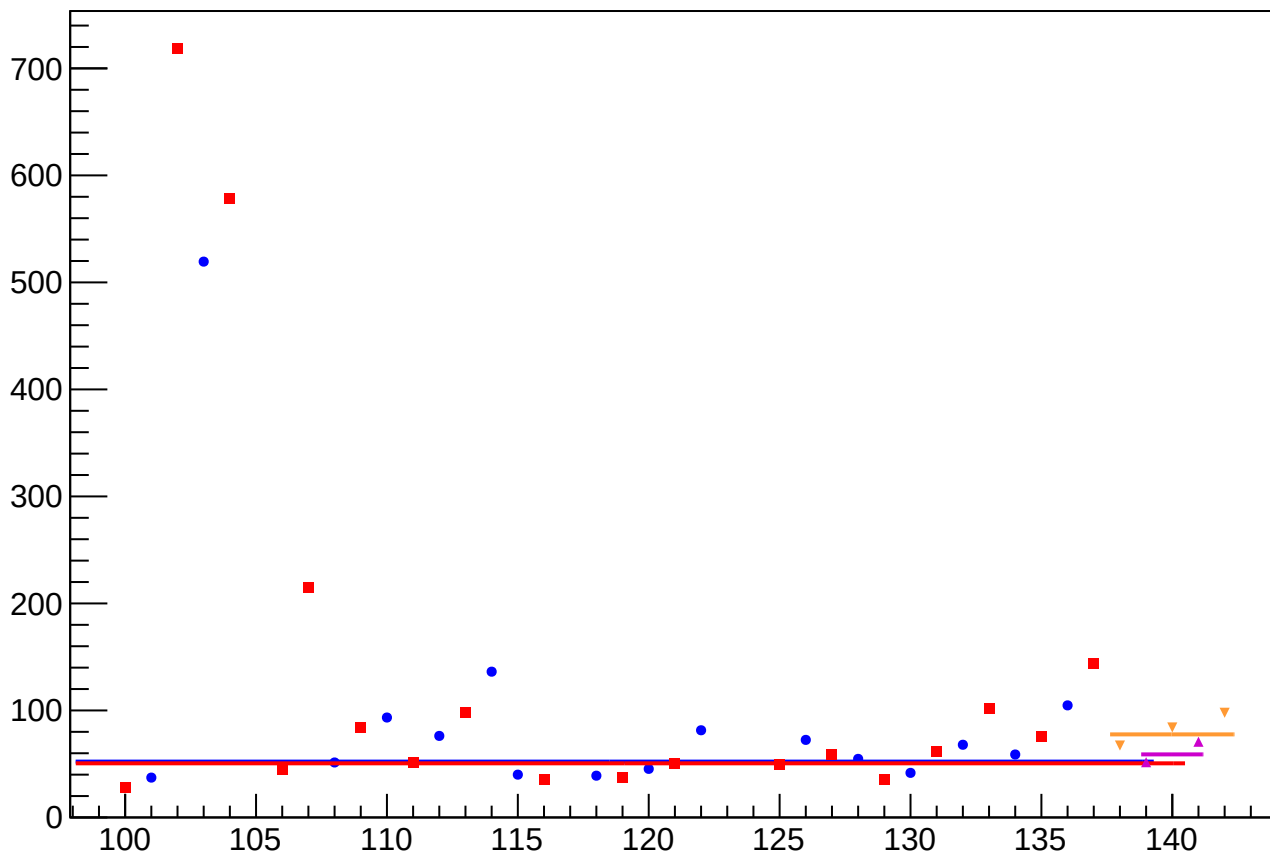
Right: -0.013 ± 0.016 $\chi^2/\text{NDF}: 25.7/33$

In: -0.012 ± 0.020 $\chi^2/\text{NDF}: 19.2/17$

Out: 0.004 ± 0.022 $\chi^2/\text{NDF}: 17.5/20$

All: -0.005 ± 0.015 $\chi^2/\text{NDF}: 37.0/38$

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.191+/-0.016 χ^2/NDF : 2266922.0/15

Left Out: 77.626+/-0.041 χ^2/NDF : 77154.5/2

Right Out: 50.582+/-0.017 χ^2/NDF : 3051364.2/17

Left In: 58.932+/-0.034 χ^2/NDF : 74358.3/1

Left: 66.622+/-0.026 χ^2/NDF : 275157.2/4

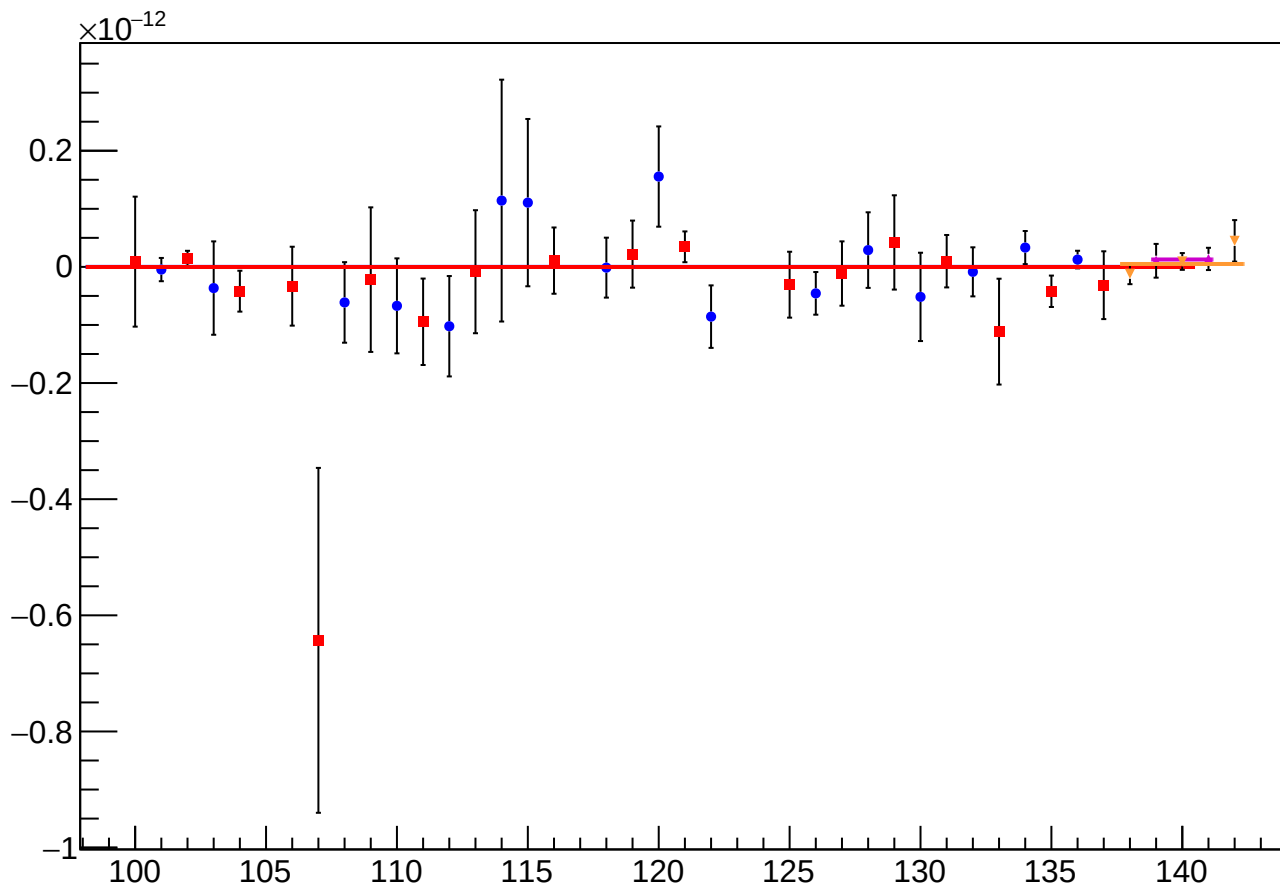
Right: 51.419+/-0.012 χ^2/NDF : 5323126.6/33

In: 53.408+/-0.014 χ^2/NDF : 2373307.9/17

Out: 54.458+/-0.015 χ^2/NDF : 3505121.5/20

All: 53.900+/-0.011 χ^2/NDF : 5880886.9/38

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 14.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.2/2

Right Out: -0.000+/-0.000 χ^2/NDF : 16.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 2.4/4

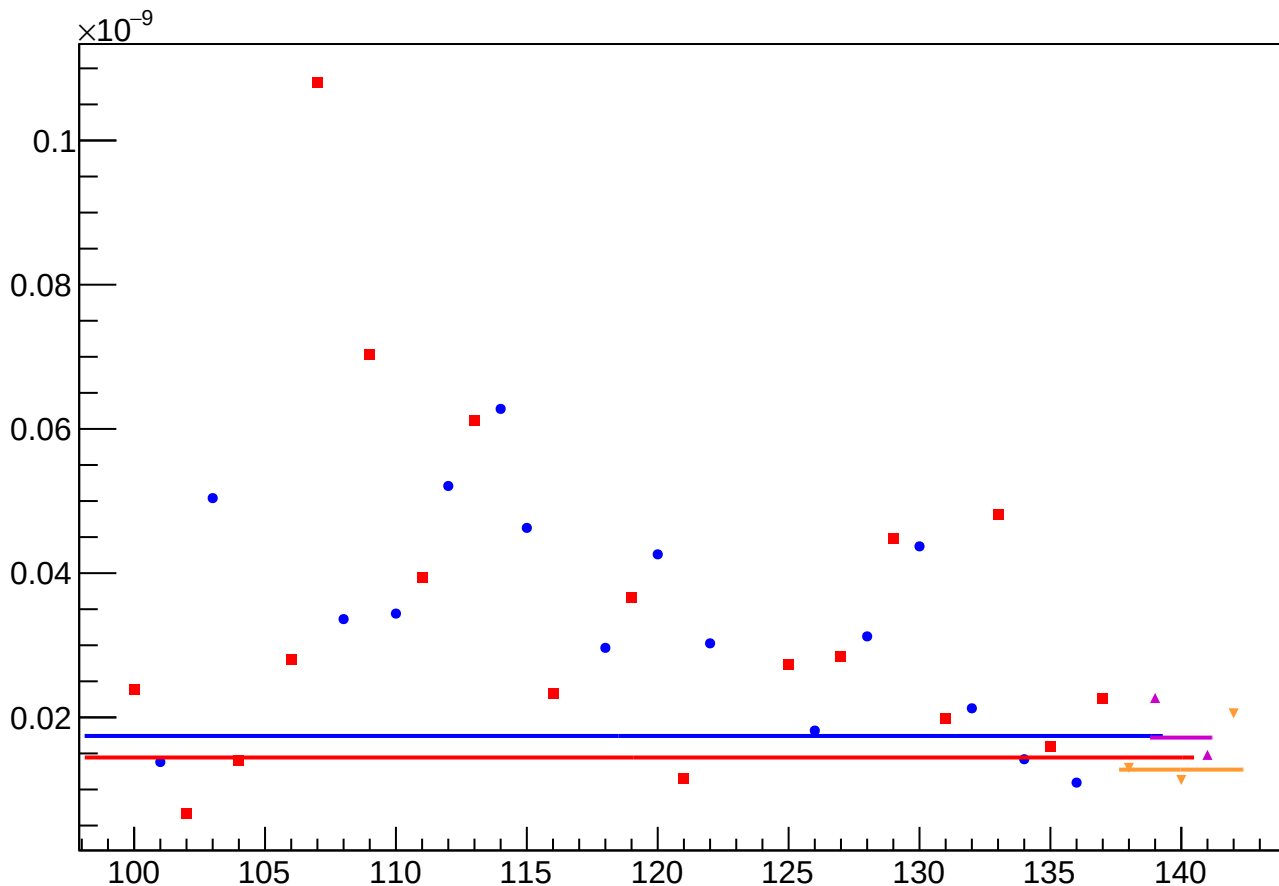
Right: -0.000+/-0.000 χ^2/NDF : 30.1/33

In: 0.000+/-0.000 χ^2/NDF : 14.5/17

Out: 0.000+/-0.000 χ^2/NDF : 18.4/20

All: 0.000+/-0.000 χ^2/NDF : 32.9/38

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2224531.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 115465.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3261103.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 102688.1/1

Left: 0.000+/-0.000 χ^2/NDF : 324281.9/4

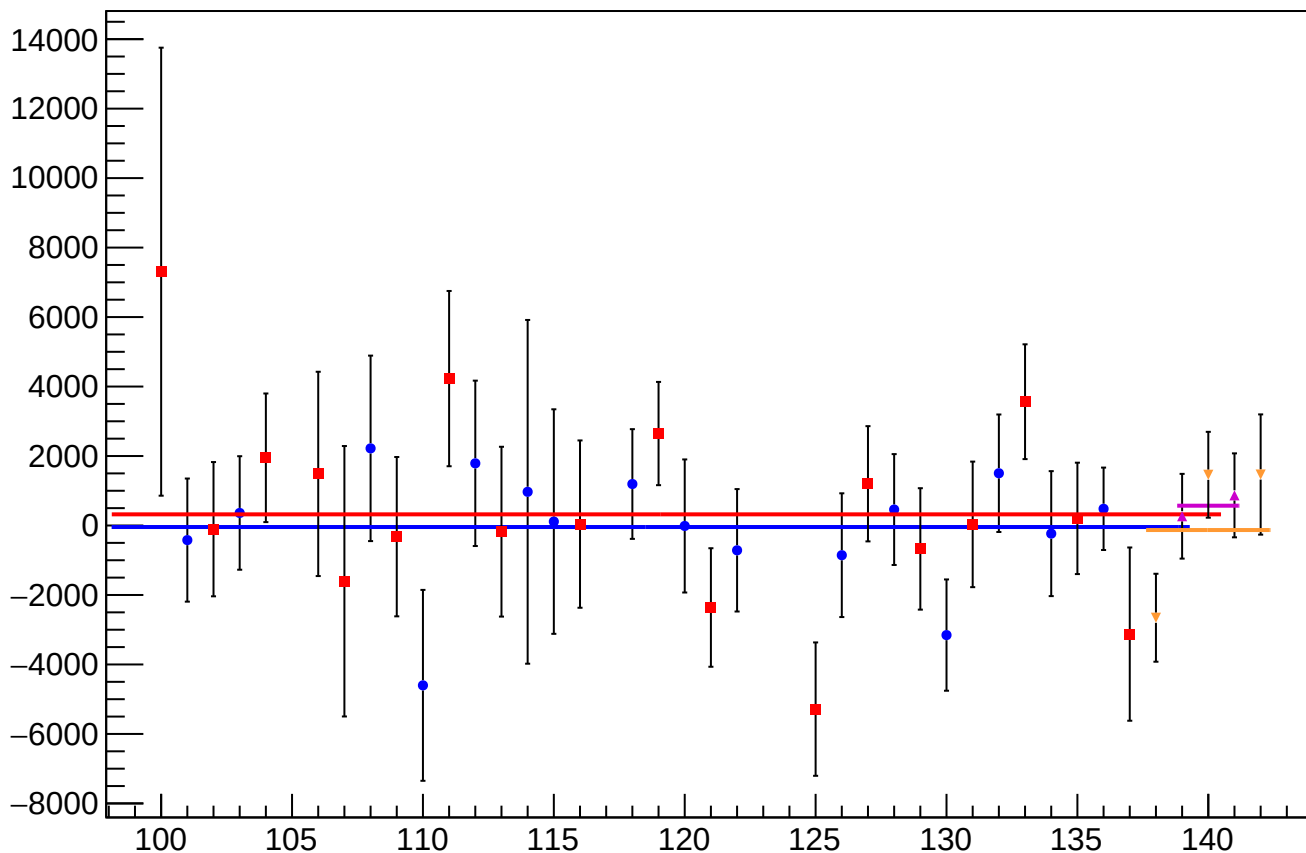
Right: 0.000+/-0.000 χ^2/NDF : 5591516.4/33

In: 0.000+/-0.000 χ^2/NDF : 2327523.2/17

Out: 0.000+/-0.000 χ^2/NDF : 3405528.1/20

All: 0.000+/-0.000 χ^2/NDF : 5964781.6/38

reg_asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: -43.681 ± 459.222 $\chi^2/\text{NDF}: 10.1/15$

Left Out: -130.460 ± 787.409 $\chi^2/\text{NDF}: 6.5/2$

Right Out: 321.266 ± 474.939 $\chi^2/\text{NDF}: 24.8/17$

Left In: 570.101 ± 858.507 $\chi^2/\text{NDF}: 0.1/1$

Left: 189.615 ± 580.292 $\chi^2/\text{NDF}: 7.0/4$

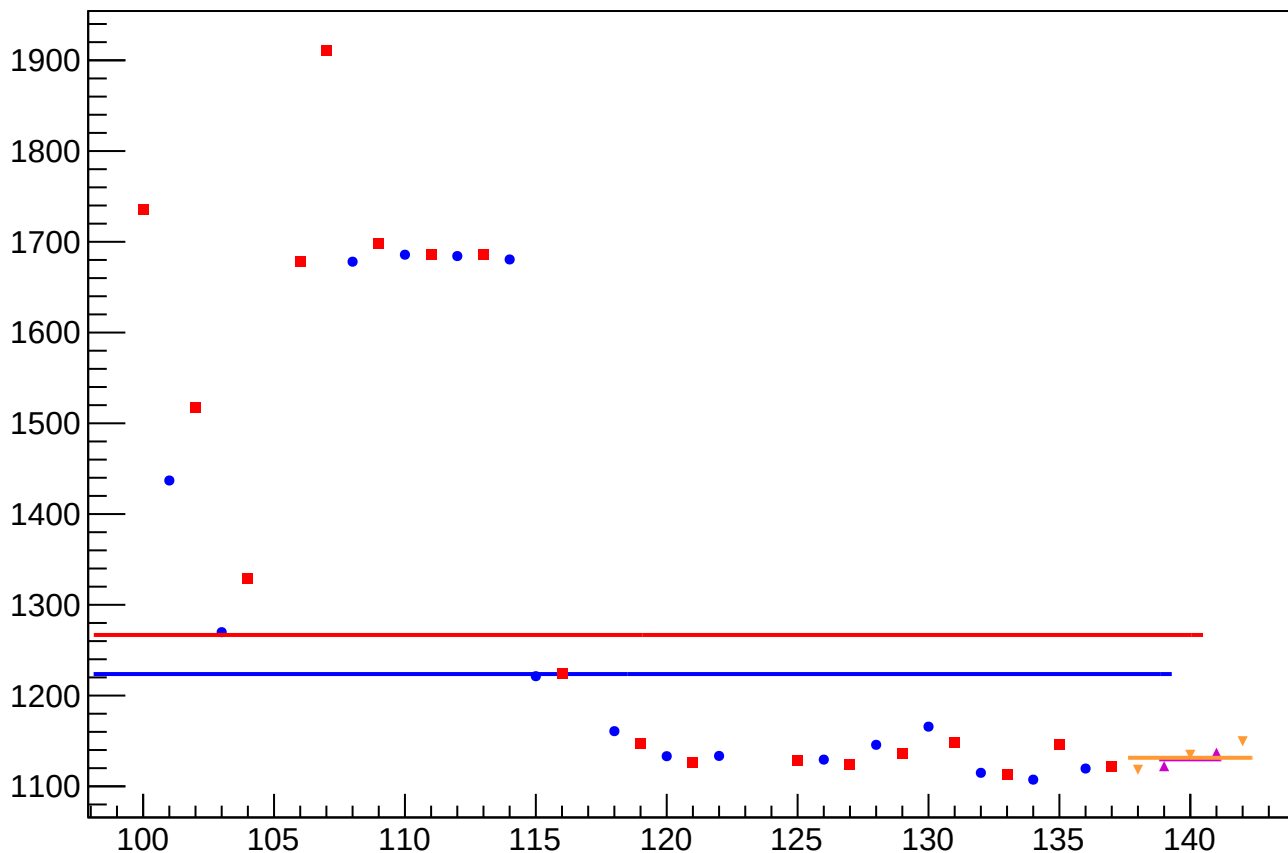
Right: 132.654 ± 330.136 $\chi^2/\text{NDF}: 35.2/33$

In: 92.868 ± 404.931 $\chi^2/\text{NDF}: 10.6/17$

Out: 200.763 ± 406.688 $\chi^2/\text{NDF}: 31.5/20$

All: 146.582 ± 286.948 $\chi^2/\text{NDF}: 42.2/38$

reg_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1223.705+/-0.325 χ^2/NDF : 294966.1/15

Left Out: 1131.445+/-0.557 χ^2/NDF : 453.2/2

Right Out: 1266.780+/-0.336 χ^2/NDF : 432845.4/17

Left In: 1129.711+/-0.607 χ^2/NDF : 150.4/1

Left: 1130.653+/-0.410 χ^2/NDF : 608.0/4

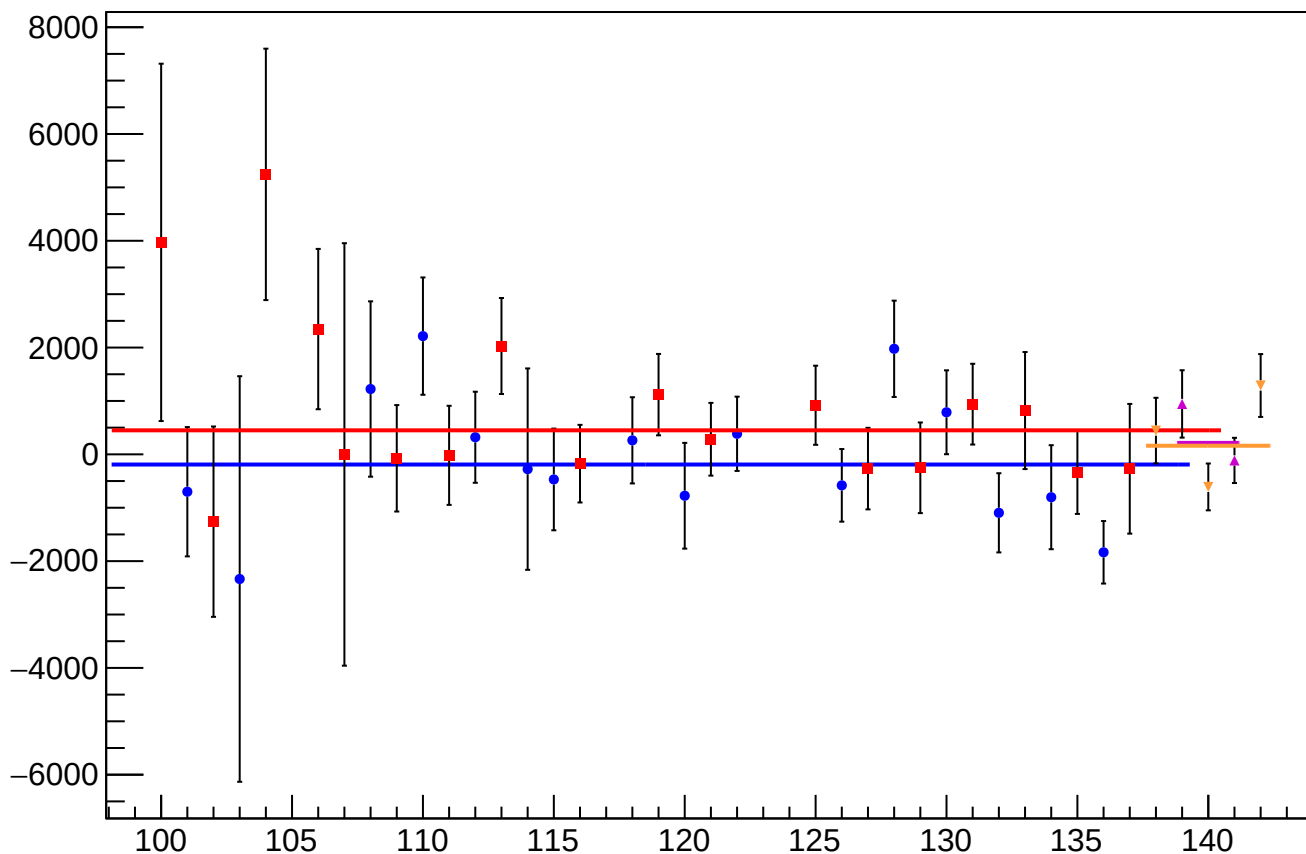
Right: 1244.518+/-0.233 χ^2/NDF : 736313.8/33

In: 1202.794+/-0.286 χ^2/NDF : 313756.9/17

Out: 1230.678+/-0.288 χ^2/NDF : 476619.0/20

All: 1216.676+/-0.203 χ^2/NDF : 795097.2/38

asym_usl_atl1_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -190.634 ± 222.869 χ^2/NDF : 25.2/15

Left Out: 161.156 ± 305.328 χ^2/NDF : 7.0/2

Right Out: 449.847 ± 223.203 χ^2/NDF : 16.8/17

Left In: 214.492 ± 351.549 χ^2/NDF : 1.9/1

Left: 184.089 ± 230.521 χ^2/NDF : 8.9/4

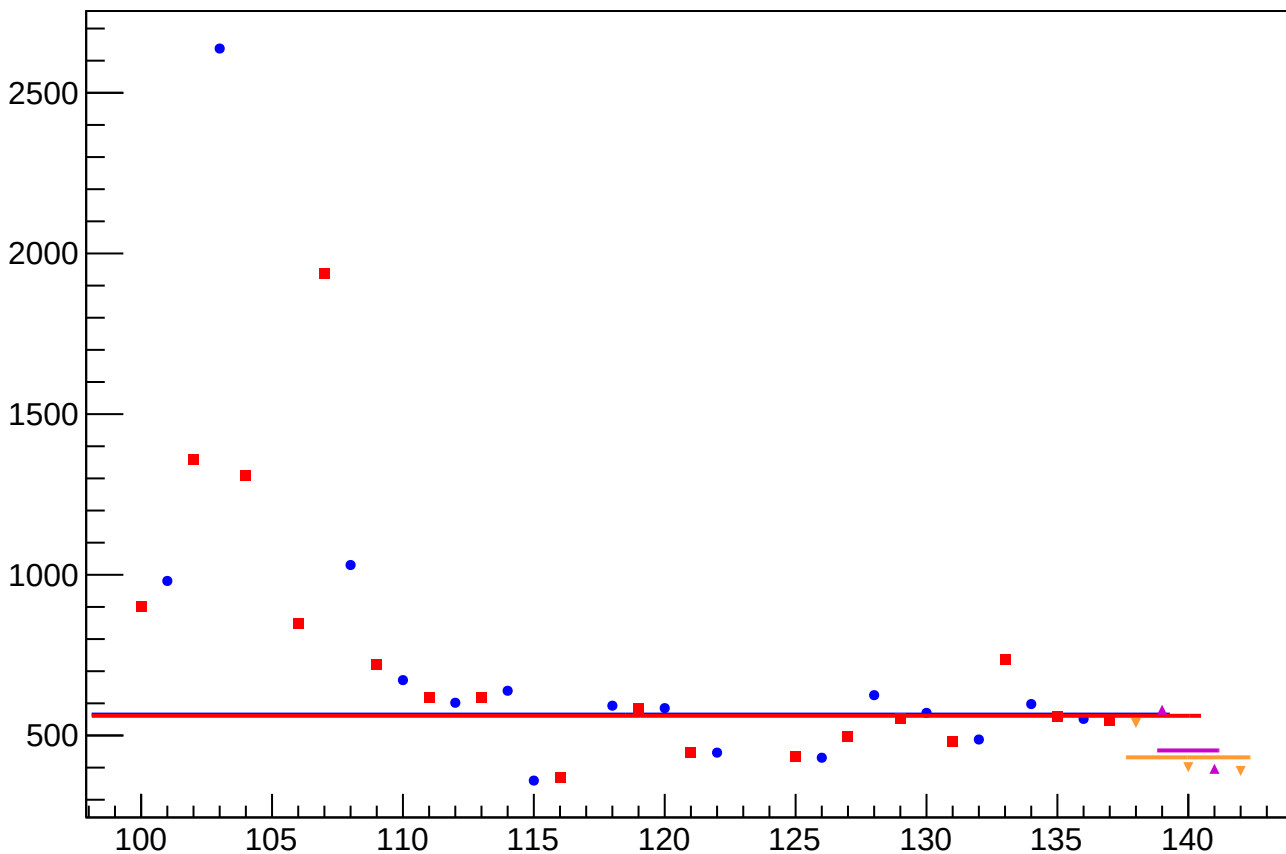
Right: 129.127 ± 157.710 χ^2/NDF : 46.2/33

In: -74.490 ± 188.230 χ^2/NDF : 28.1/17

Out: 349.302 ± 180.190 χ^2/NDF : 24.4/20

All: 146.651 ± 130.163 χ^2/NDF : 55.2/38

asym_usl_atl1_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 564.959+/-0.158 χ^2/NDF : 1284478.9/15

Left Out: 431.900+/-0.216 χ^2/NDF : 80260.4/2

Right Out: 561.243+/-0.158 χ^2/NDF : 1352239.3/17

Left In: 453.383+/-0.249 χ^2/NDF : 116939.2/1

Left: 441.137+/-0.163 χ^2/NDF : 201456.9/4

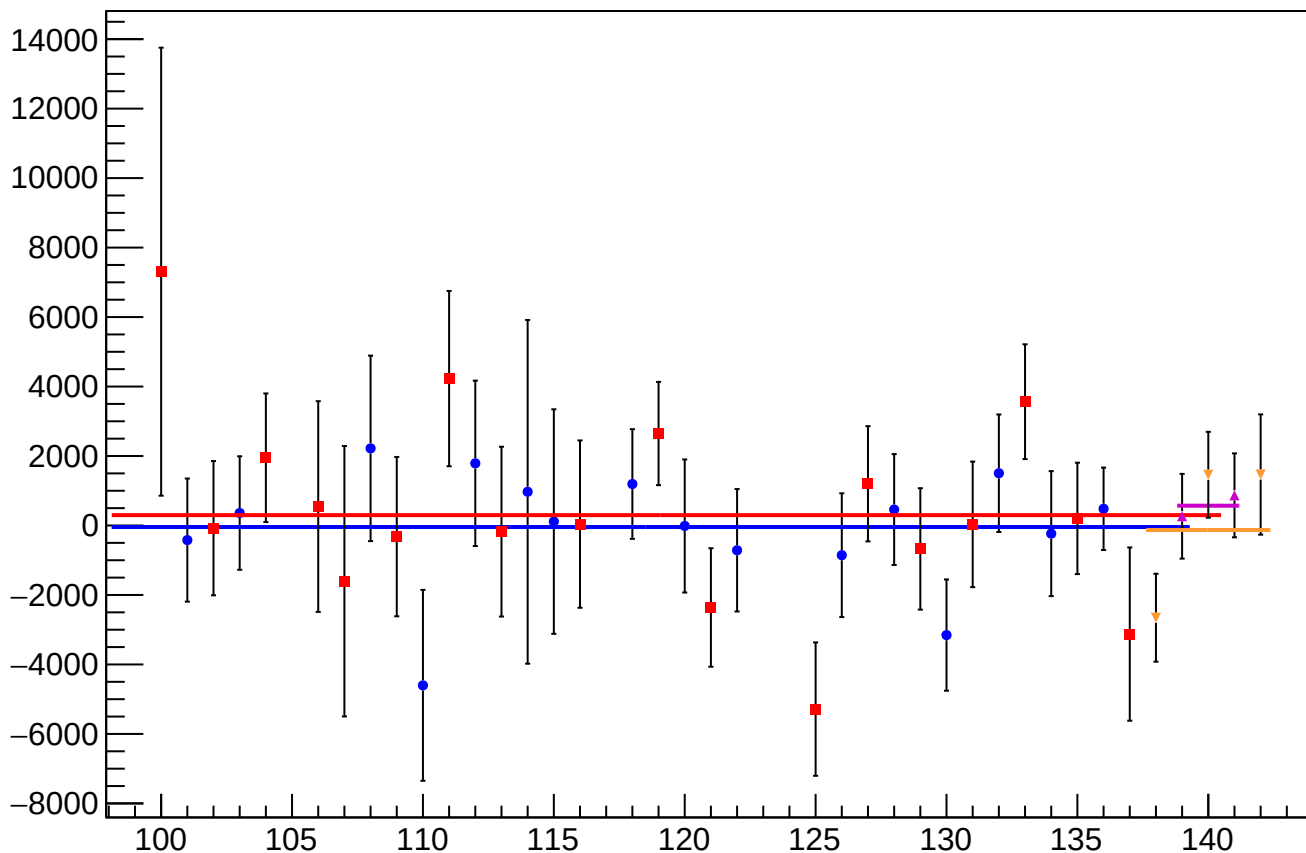
Right: 563.104+/-0.112 χ^2/NDF : 2636995.6/33

In: 532.971+/-0.133 χ^2/NDF : 1545125.7/17

Out: 516.196+/-0.127 χ^2/NDF : 1666408.5/20

All: 524.218+/-0.092 χ^2/NDF : 3219823.6/38

cor_asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: -43.923 ± 459.222 $\chi^2/\text{NDF}: 10.1/15$

Left Out: -130.454 ± 787.409 $\chi^2/\text{NDF}: 6.5/2$

Right Out: 298.207 ± 475.315 $\chi^2/\text{NDF}: 24.6/17$

Left In: 569.851 ± 858.507 $\chi^2/\text{NDF}: 0.1/1$

Left: 189.504 ± 580.292 $\chi^2/\text{NDF}: 7.0/4$

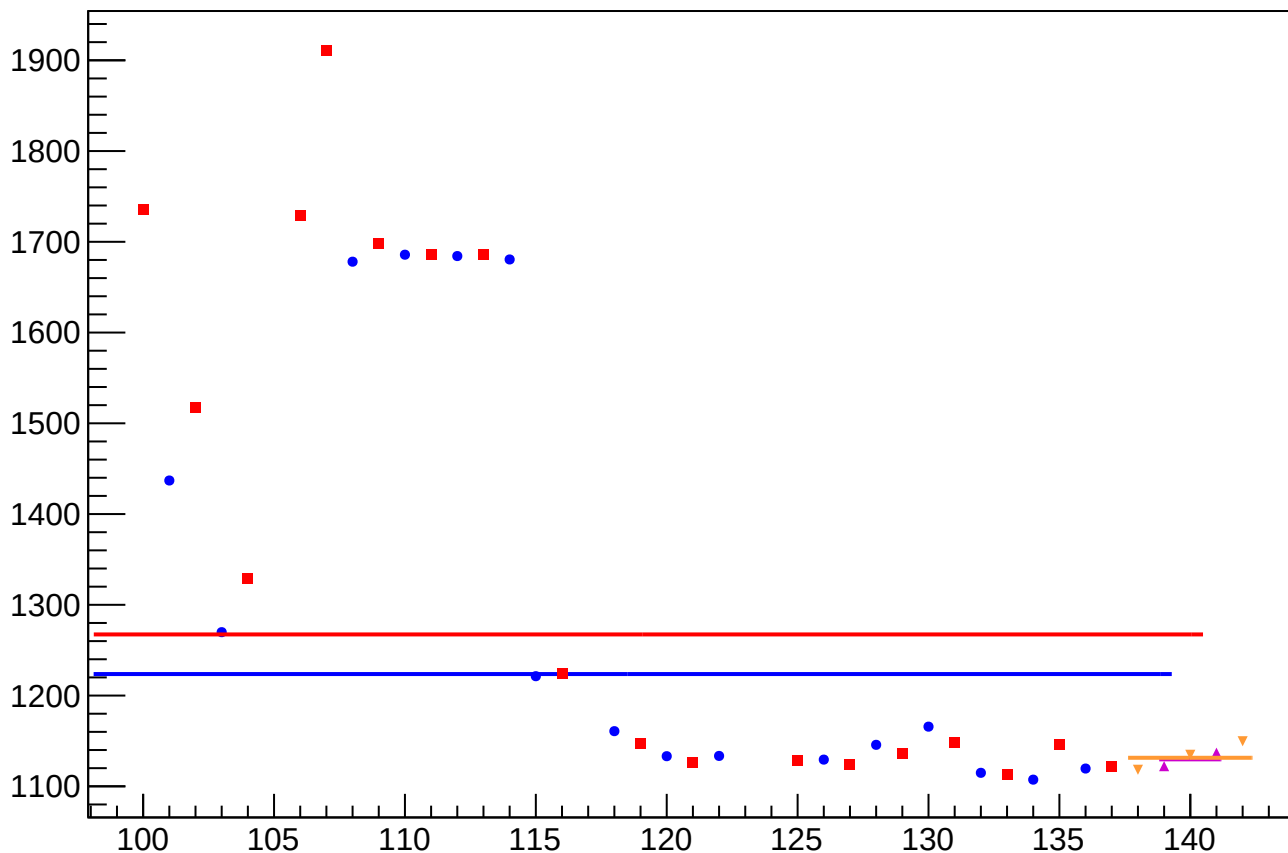
Right: 121.252 ± 330.262 $\chi^2/\text{NDF}: 35.0/33$

In: 92.624 ± 404.931 $\chi^2/\text{NDF}: 10.6/17$

Out: 183.725 ± 406.923 $\chi^2/\text{NDF}: 31.3/20$

All: 137.951 ± 287.031 $\chi^2/\text{NDF}: 42.0/38$

cor_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1223.705+/-0.325 χ^2/NDF : 294966.1/15

Left Out: 1131.445+/-0.557 χ^2/NDF : 453.2/2

Right Out: 1267.363+/-0.336 χ^2/NDF : 439982.4/17

Left In: 1129.711+/-0.607 χ^2/NDF : 150.4/1

Left: 1130.653+/-0.410 χ^2/NDF : 608.0/4

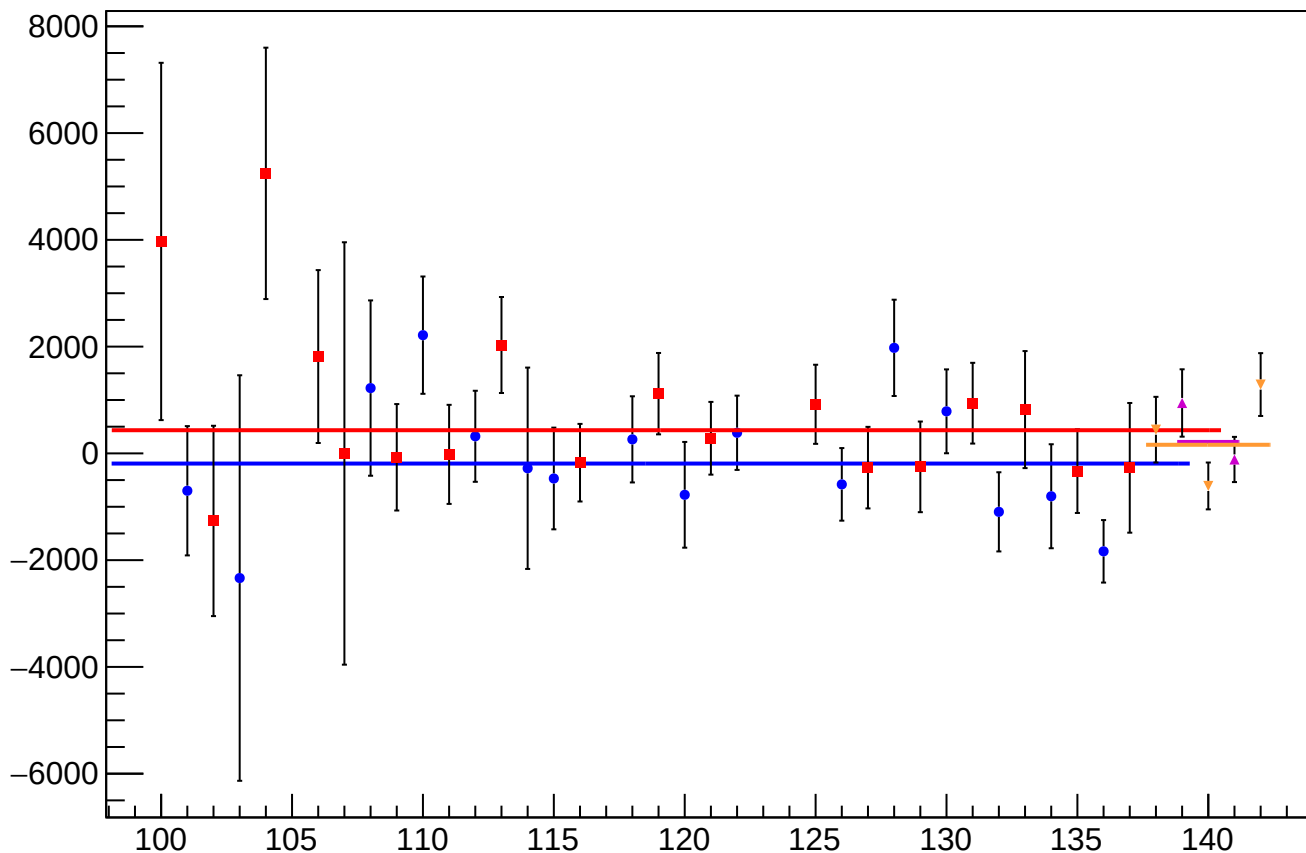
Right: 1244.783+/-0.234 χ^2/NDF : 743675.6/33

In: 1202.794+/-0.286 χ^2/NDF : 313757.0/17

Out: 1231.064+/-0.288 χ^2/NDF : 484111.9/20

All: 1216.859+/-0.203 χ^2/NDF : 802718.8/38

asym_usl_atl1_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -190.645+/-222.867 χ^2/NDF : 25.3/15

Left Out: 161.129+/-305.331 χ^2/NDF : 7.0/2

Right Out: 433.877+/-223.547 χ^2/NDF : 15.9/17

Left In: 214.308+/-351.549 χ^2/NDF : 1.9/1

Left: 183.995+/-230.522 χ^2/NDF : 8.9/4

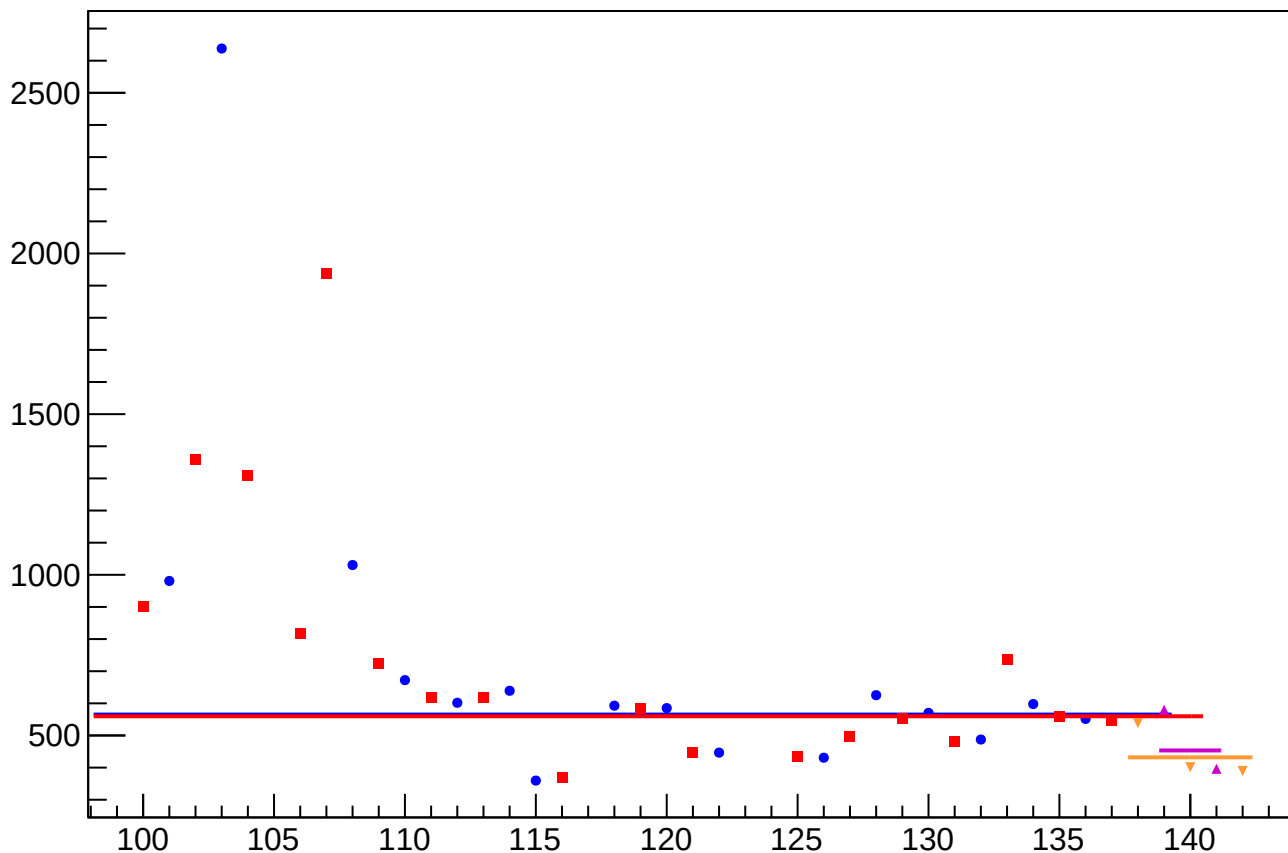
Right: 120.665+/-157.831 χ^2/NDF : 45.1/33

In: -74.551+/-188.229 χ^2/NDF : 28.1/17

Out: 338.695+/-180.372 χ^2/NDF : 23.4/20

All: 140.877+/-130.231 χ^2/NDF : 54.1/38

asym_usl_atl1_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 564.954+/-0.158 χ^2/NDF : 1284455.7/15

Left Out: 431.904+/-0.216 χ^2/NDF : 80238.5/2

Right Out: 559.758+/-0.158 χ^2/NDF : 1329357.2/17

Left In: 453.383+/-0.249 χ^2/NDF : 116935.3/1

Left: 441.140+/-0.163 χ^2/NDF : 201429.6/4

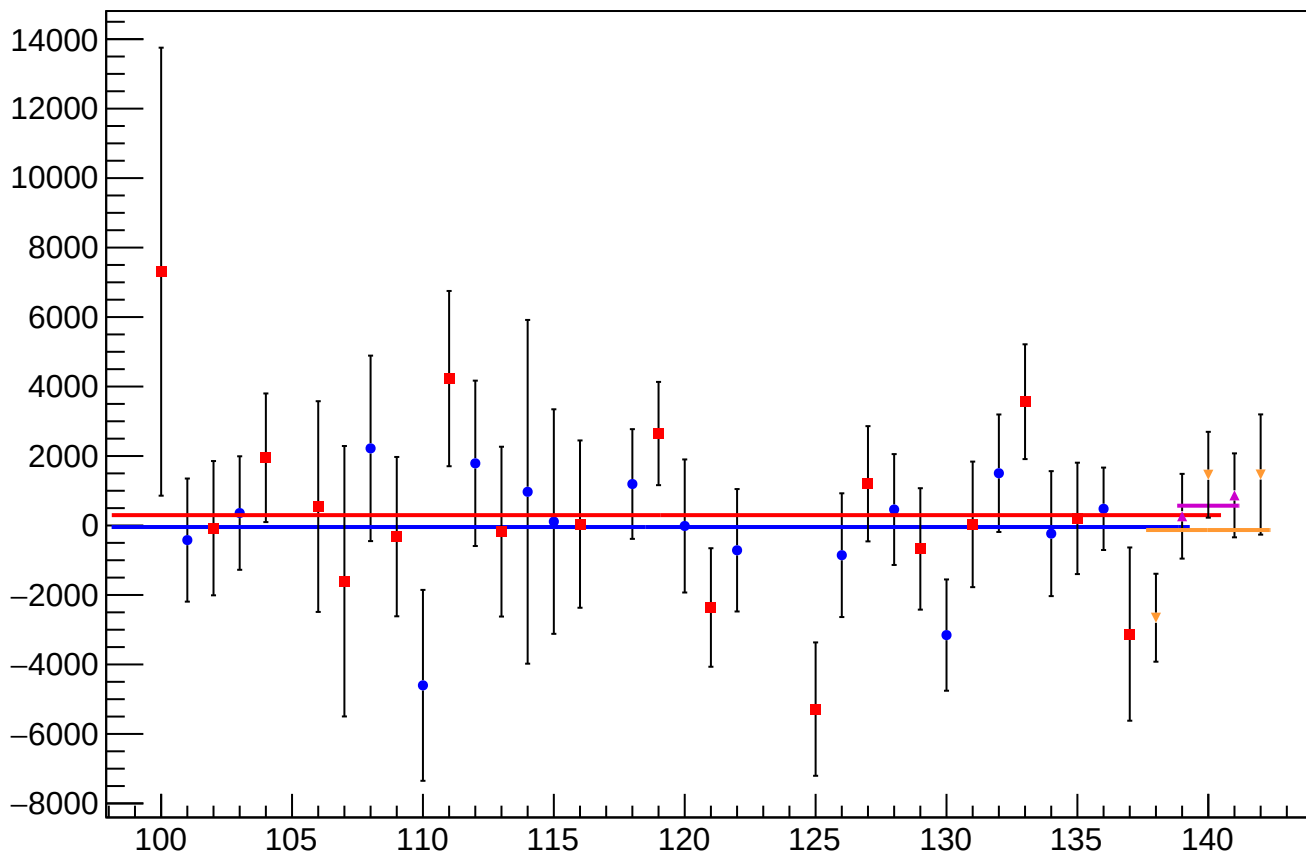
Right: 562.364+/-0.112 χ^2/NDF : 2614354.9/33

In: 532.969+/-0.133 χ^2/NDF : 1545086.9/17

Out: 515.140+/-0.128 χ^2/NDF : 1637900.0/20

All: 523.674+/-0.092 χ^2/NDF : 3192340.7/38

eigen_cor_asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: -43.923+/-459.222 χ^2/NDF : 10.1/15

Left Out: -130.454+/-787.409 χ^2/NDF : 6.5/2

Right Out: 298.207+/-475.315 χ^2/NDF : 24.6/17

Left In: 569.851+/-858.507 χ^2/NDF : 0.1/1

Left: 189.504+/-580.292 χ^2/NDF : 7.0/4

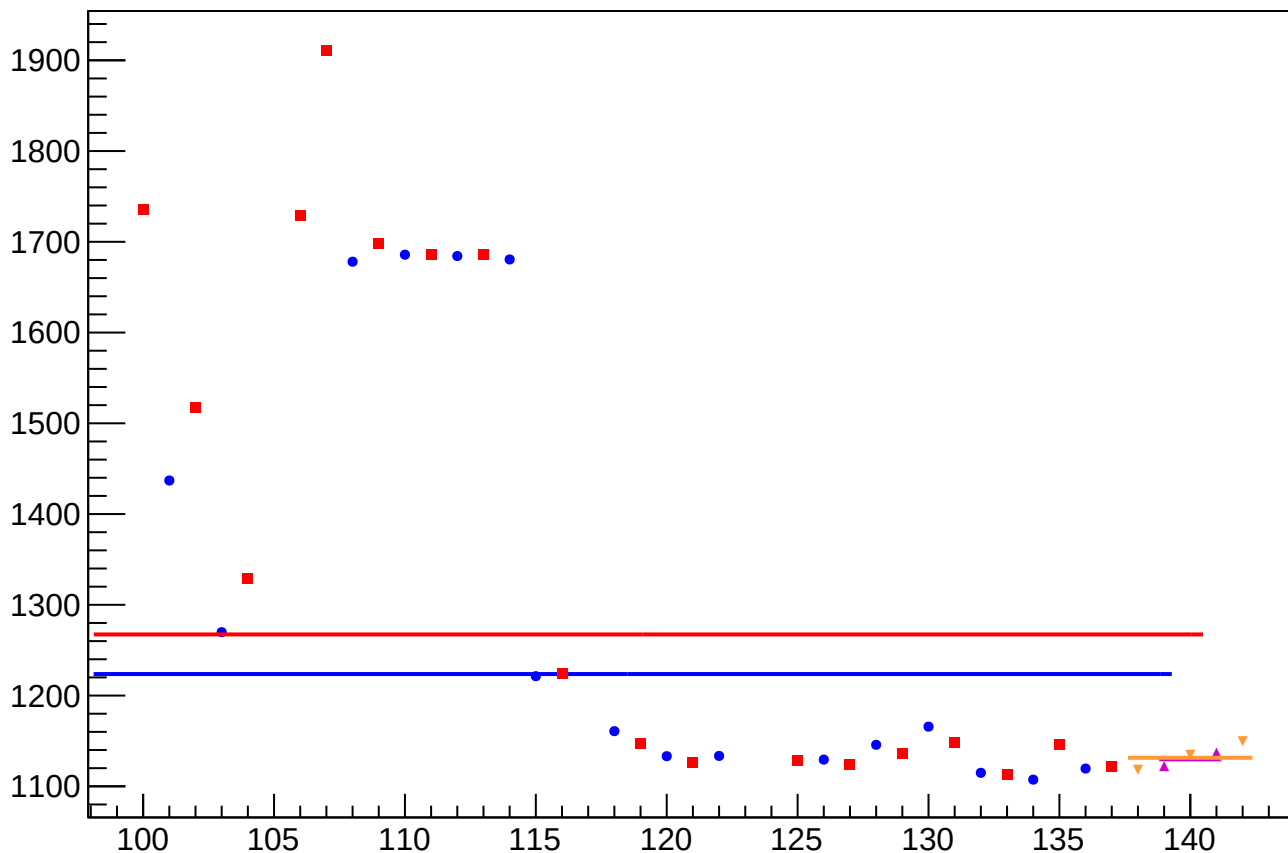
Right: 121.252+/-330.262 χ^2/NDF : 35.0/33

In: 92.624+/-404.931 χ^2/NDF : 10.6/17

Out: 183.725+/-406.923 χ^2/NDF : 31.3/20

All: 137.951+/-287.031 χ^2/NDF : 42.0/38

eigen_cor_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1223.705+/-0.325 χ^2/NDF : 294966.1/15

Left Out: 1131.445+/-0.557 χ^2/NDF : 453.2/2

Right Out: 1267.363+/-0.336 χ^2/NDF : 439982.4/17

Left In: 1129.711+/-0.607 χ^2/NDF : 150.4/1

Left: 1130.653+/-0.410 χ^2/NDF : 608.0/4

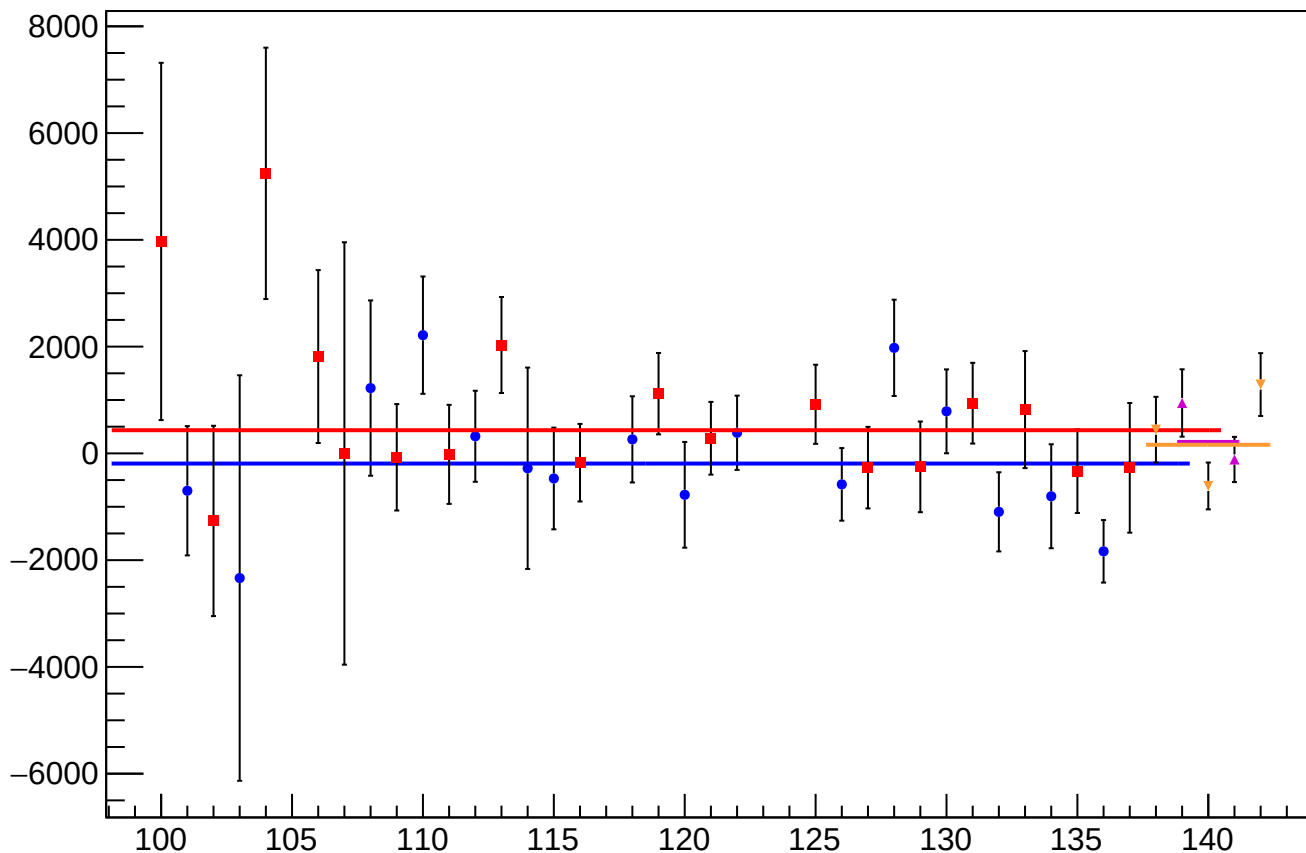
Right: 1244.783+/-0.234 χ^2/NDF : 743675.6/33

In: 1202.794+/-0.286 χ^2/NDF : 313757.0/17

Out: 1231.064+/-0.288 χ^2/NDF : 484111.9/20

All: 1216.859+/-0.203 χ^2/NDF : 802718.8/38

asym_usl_atl1_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -190.645+/-222.867 χ^2/NDF : 25.3/15

Left Out: 161.129+/-305.331 χ^2/NDF : 7.0/2

Right Out: 433.877+/-223.547 χ^2/NDF : 15.9/17

Left In: 214.308+/-351.549 χ^2/NDF : 1.9/1

Left: 183.995+/-230.522 χ^2/NDF : 8.9/4

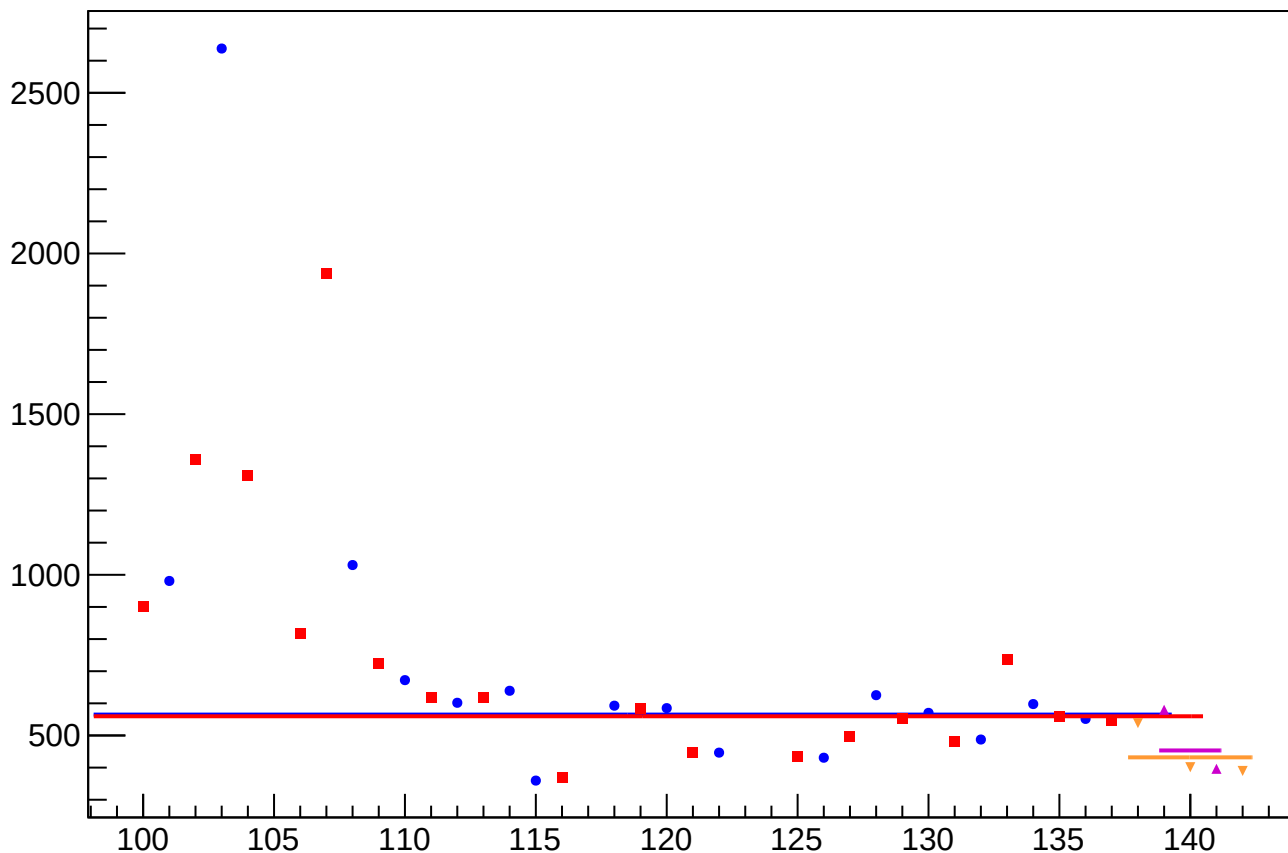
Right: 120.665+/-157.831 χ^2/NDF : 45.1/33

In: -74.551+/-188.229 χ^2/NDF : 28.1/17

Out: 338.695+/-180.372 χ^2/NDF : 23.4/20

All: 140.877+/-130.231 χ^2/NDF : 54.1/38

asym_usl_atl1_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 564.954 $\pm$ 0.158 χ^2 /NDF: 1284455.7/15

Left Out: 431.904 $\pm$ 0.216 χ^2 /NDF: 80238.5/2

Right Out: 559.758 $\pm$ 0.158 χ^2 /NDF: 1329357.2/17

Left In: 453.383 $\pm$ 0.249 χ^2 /NDF: 116935.3/1

Left: 441.140 $\pm$ 0.163 χ^2 /NDF: 201429.6/4

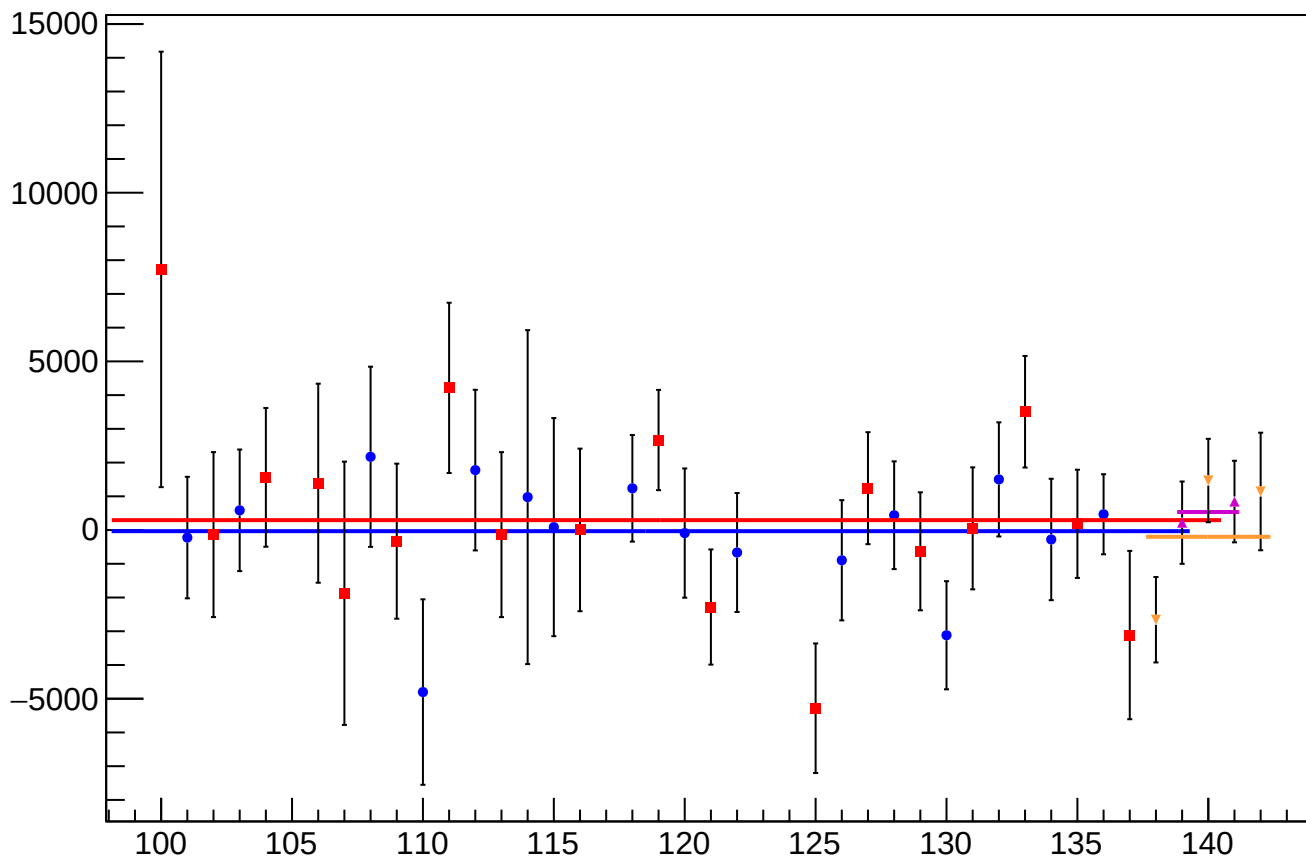
Right: 562.364 $\pm$ 0.112 χ^2 /NDF: 2614354.9/33

In: 532.969 $\pm$ 0.133 χ^2 /NDF: 1545086.9/17

Out: 515.140 $\pm$ 0.128 χ^2 /NDF: 1637900.0/20

All: 523.674 $\pm$ 0.092 χ^2 /NDF: 3192340.7/38

dit_asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: -33.062 ± 463.216 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -199.423 ± 788.856 $\chi^2/\text{NDF}: 6.2/2$

Right Out: 293.384 ± 483.838 $\chi^2/\text{NDF}: 24.2/17$

Left In: 534.506 ± 858.886 $\chi^2/\text{NDF}: 0.1/1$

Left: 136.405 ± 580.988 $\chi^2/\text{NDF}: 6.7/4$

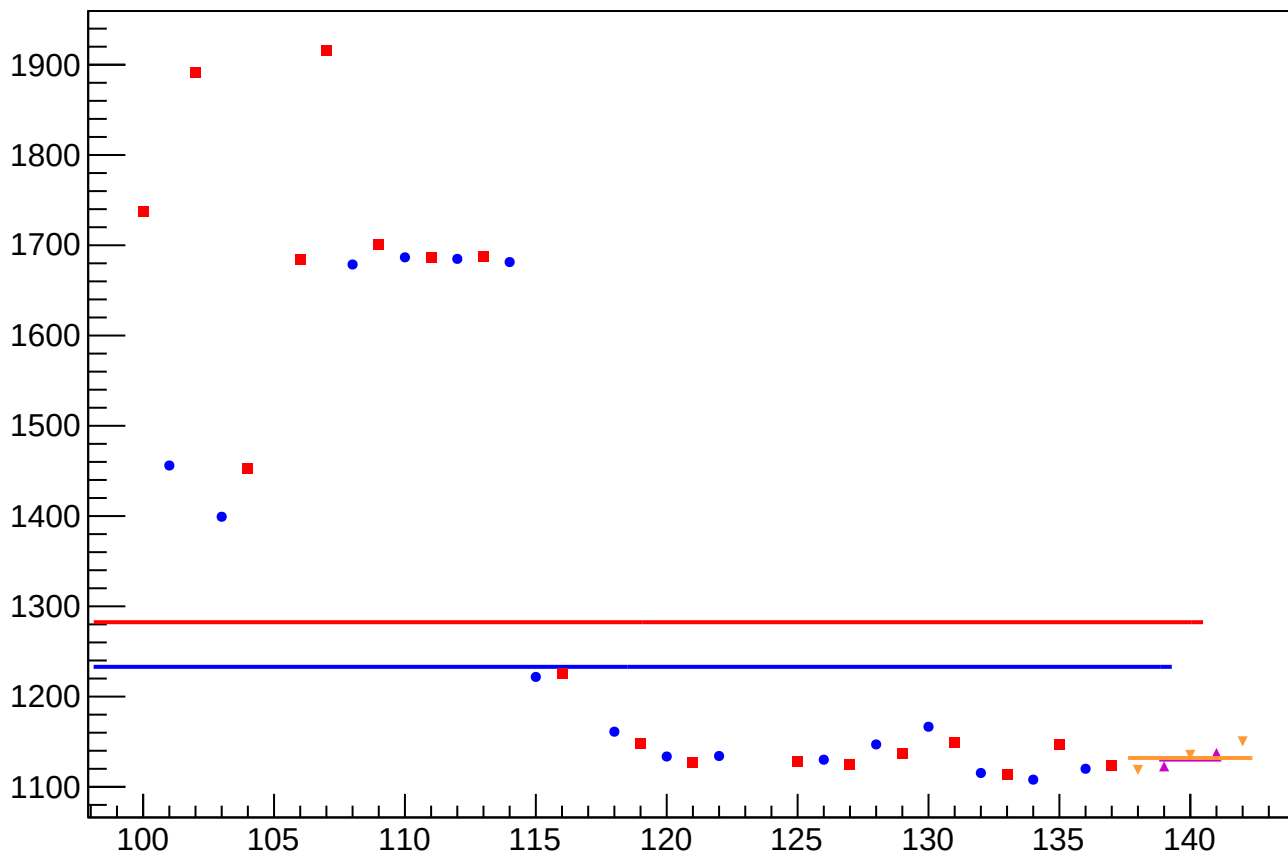
Right: 123.056 ± 334.596 $\chi^2/\text{NDF}: 34.7/33$

In: 94.826 ± 407.702 $\chi^2/\text{NDF}: 10.7/17$

Out: 158.673 ± 412.440 $\chi^2/\text{NDF}: 30.7/20$

All: 126.381 ± 289.949 $\chi^2/\text{NDF}: 41.5/38$

dit_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1232.965+/-0.328 χ^2/NDF : 315470.6/15

Left Out: 1132.004+/-0.558 χ^2/NDF : 456.6/2

Right Out: 1282.407+/-0.342 χ^2/NDF : 543403.8/17

Left In: 1130.209+/-0.607 χ^2/NDF : 148.4/1

Left: 1131.182+/-0.411 χ^2/NDF : 609.8/4

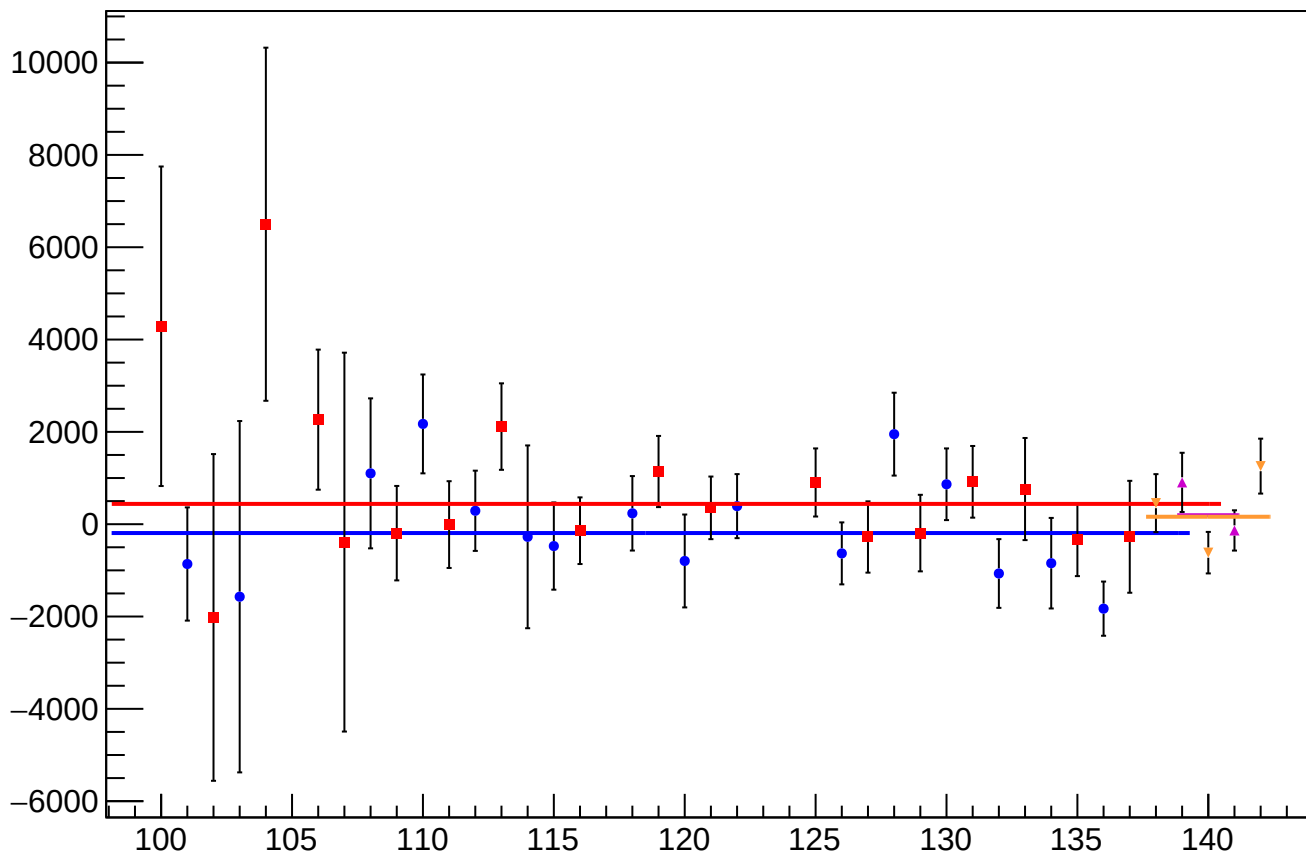
Right: 1256.610+/-0.237 χ^2/NDF : 869771.1/33

In: 1209.811+/-0.288 χ^2/NDF : 337795.6/17

Out: 1241.294+/-0.292 χ^2/NDF : 596689.1/20

All: 1225.370+/-0.205 χ^2/NDF : 940378.6/38

asym_usl_atl1_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -191.528+/-222.764 χ^2/NDF : 25.3/15

Left Out: 161.403+/-311.454 χ^2/NDF : 6.6/2

Right Out: 439.610+/-226.600 χ^2/NDF : 14.6/17

Left In: 194.194+/-360.728 χ^2/NDF : 1.8/1

Left: 175.408+/-235.743 χ^2/NDF : 8.4/4

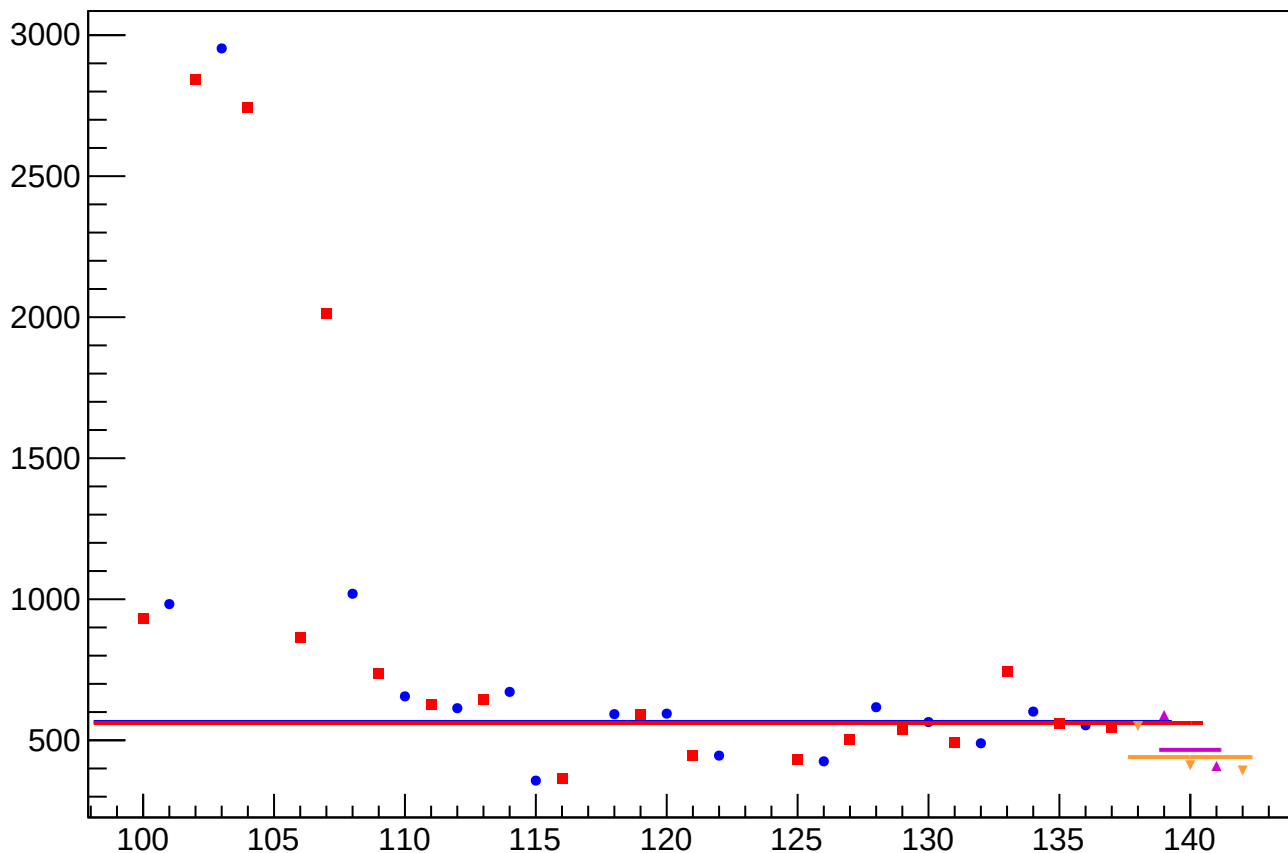
Right: 118.653+/-158.857 χ^2/NDF : 43.9/33

In: -85.040+/-189.536 χ^2/NDF : 27.9/17

Out: 343.317+/-183.235 χ^2/NDF : 21.8/20

All: 136.376+/-131.738 χ^2/NDF : 52.3/38

asym_usl_atl1_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 564.871+/-0.158 χ^2/NDF : 1480375.5/15

Left Out: 440.427+/-0.220 χ^2/NDF : 82617.4/2

Right Out: 561.273+/-0.160 χ^2/NDF : 2273371.7/17

Left In: 466.107+/-0.255 χ^2/NDF : 108589.6/1

Left: 451.395+/-0.167 χ^2/NDF : 197014.3/4

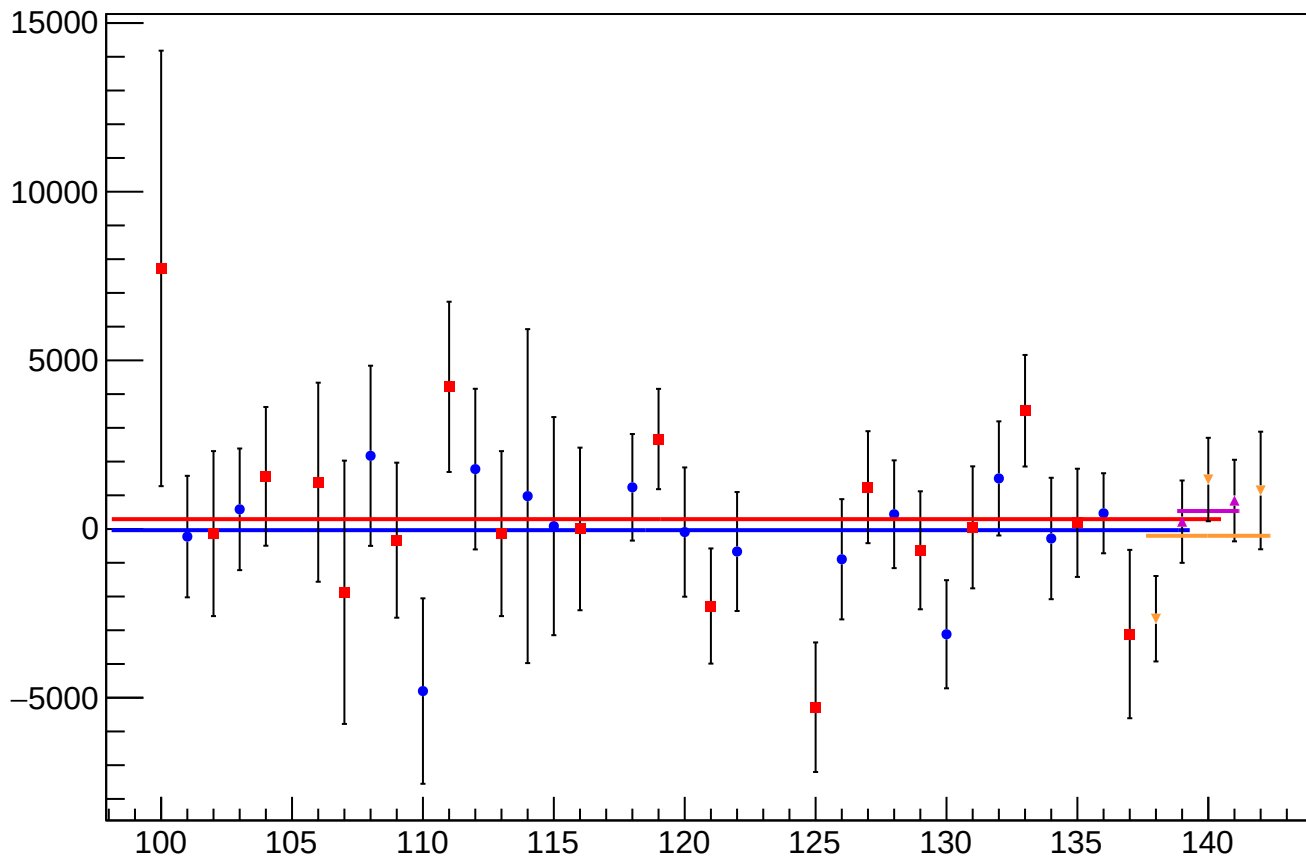
Right: 563.103+/-0.112 χ^2/NDF : 3754003.6/33

In: 537.605+/-0.134 χ^2/NDF : 1697497.2/17

Out: 519.445+/-0.130 χ^2/NDF : 2552871.6/20

All: 528.218+/-0.093 χ^2/NDF : 4259858.6/38

eigen_dit_asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: -33.061 ± 463.216 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -199.423 ± 788.856 $\chi^2/\text{NDF}: 6.2/2$

Right Out: 293.384 ± 483.838 $\chi^2/\text{NDF}: 24.2/17$

Left In: 534.508 ± 858.886 $\chi^2/\text{NDF}: 0.1/1$

Left: 136.406 ± 580.988 $\chi^2/\text{NDF}: 6.7/4$

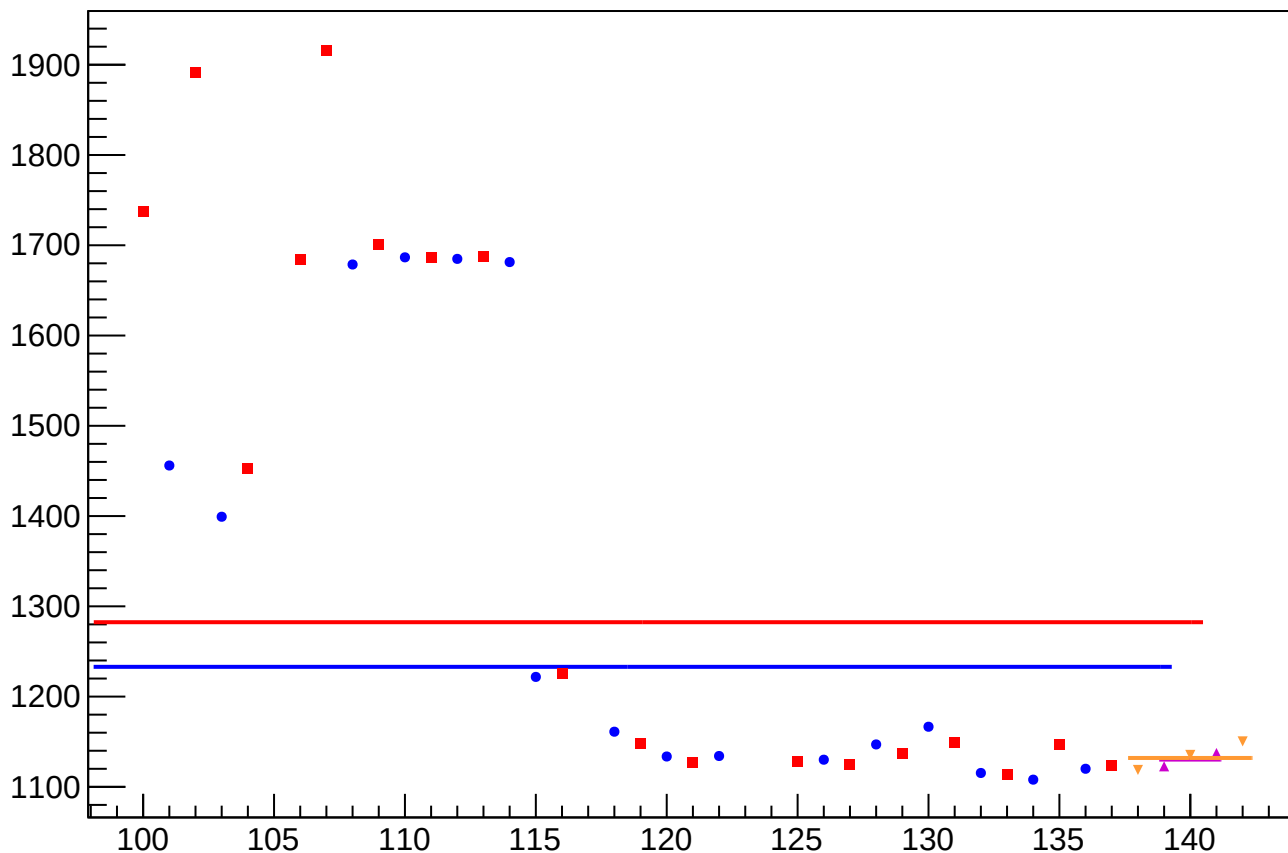
Right: 123.057 ± 334.596 $\chi^2/\text{NDF}: 34.7/33$

In: 94.827 ± 407.702 $\chi^2/\text{NDF}: 10.7/17$

Out: 158.673 ± 412.440 $\chi^2/\text{NDF}: 30.7/20$

All: 126.381 ± 289.949 $\chi^2/\text{NDF}: 41.5/38$

eigen_dit_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1232.965+/-0.328 χ^2/NDF : 315470.2/15

Left Out: 1132.004+/-0.558 χ^2/NDF : 456.6/2

Right Out: 1282.407+/-0.342 χ^2/NDF : 543403.2/17

Left In: 1130.209+/-0.607 χ^2/NDF : 148.4/1

Left: 1131.182+/-0.411 χ^2/NDF : 609.8/4

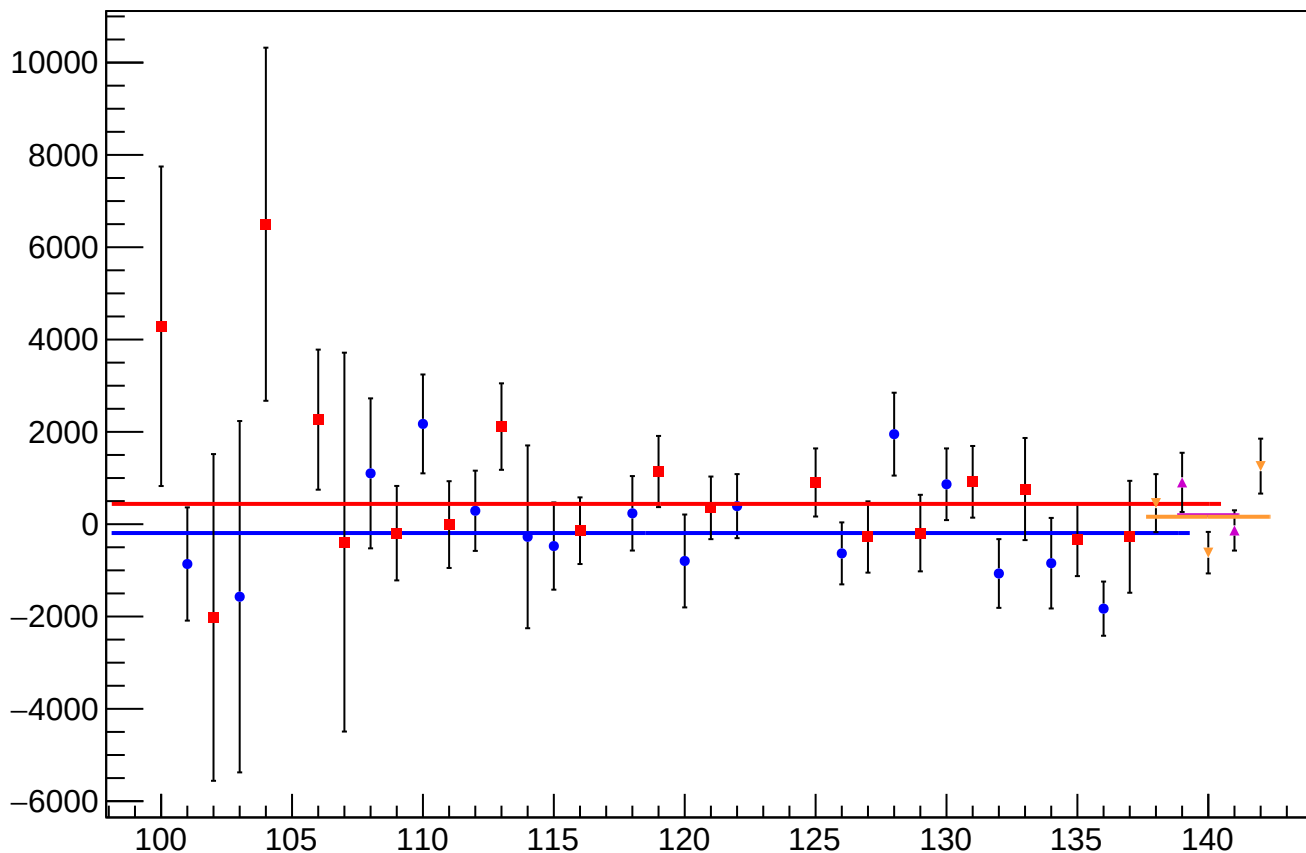
Right: 1256.610+/-0.237 χ^2/NDF : 869770.2/33

In: 1209.811+/-0.288 χ^2/NDF : 337795.2/17

Out: 1241.293+/-0.292 χ^2/NDF : 596688.5/20

All: 1225.370+/-0.205 χ^2/NDF : 940377.6/38

asym_usl_atl1_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -191.527+/-222.763 χ^2/NDF : 25.3/15

Left Out: 161.404+/-311.453 χ^2/NDF : 6.6/2

Right Out: 439.611+/-226.600 χ^2/NDF : 14.6/17

Left In: 194.192+/-360.727 χ^2/NDF : 1.8/1

Left: 175.408+/-235.742 χ^2/NDF : 8.4/4

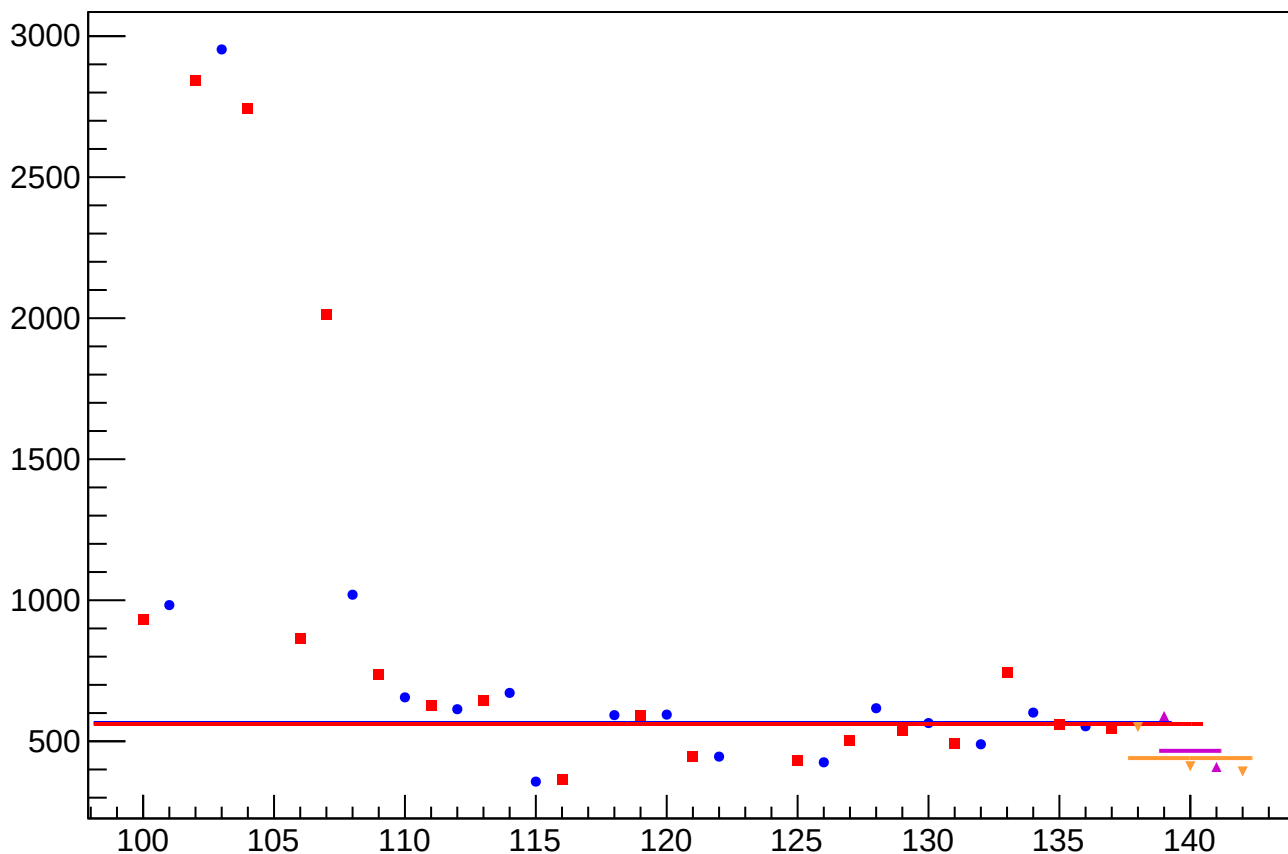
Right: 118.653+/-158.857 χ^2/NDF : 43.9/33

In: -85.041+/-189.536 χ^2/NDF : 27.9/17

Out: 343.317+/-183.235 χ^2/NDF : 21.8/20

All: 136.376+/-131.738 χ^2/NDF : 52.3/38

asym_usl_atl1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 564.871+/-0.158 χ^2/NDF : 1480372.9/15

Left Out: 440.425+/-0.220 χ^2/NDF : 82621.5/2

Right Out: 561.273+/-0.160 χ^2/NDF : 2273372.4/17

Left In: 466.107+/-0.255 χ^2/NDF : 108593.0/1

Left: 451.394+/-0.167 χ^2/NDF : 197022.2/4

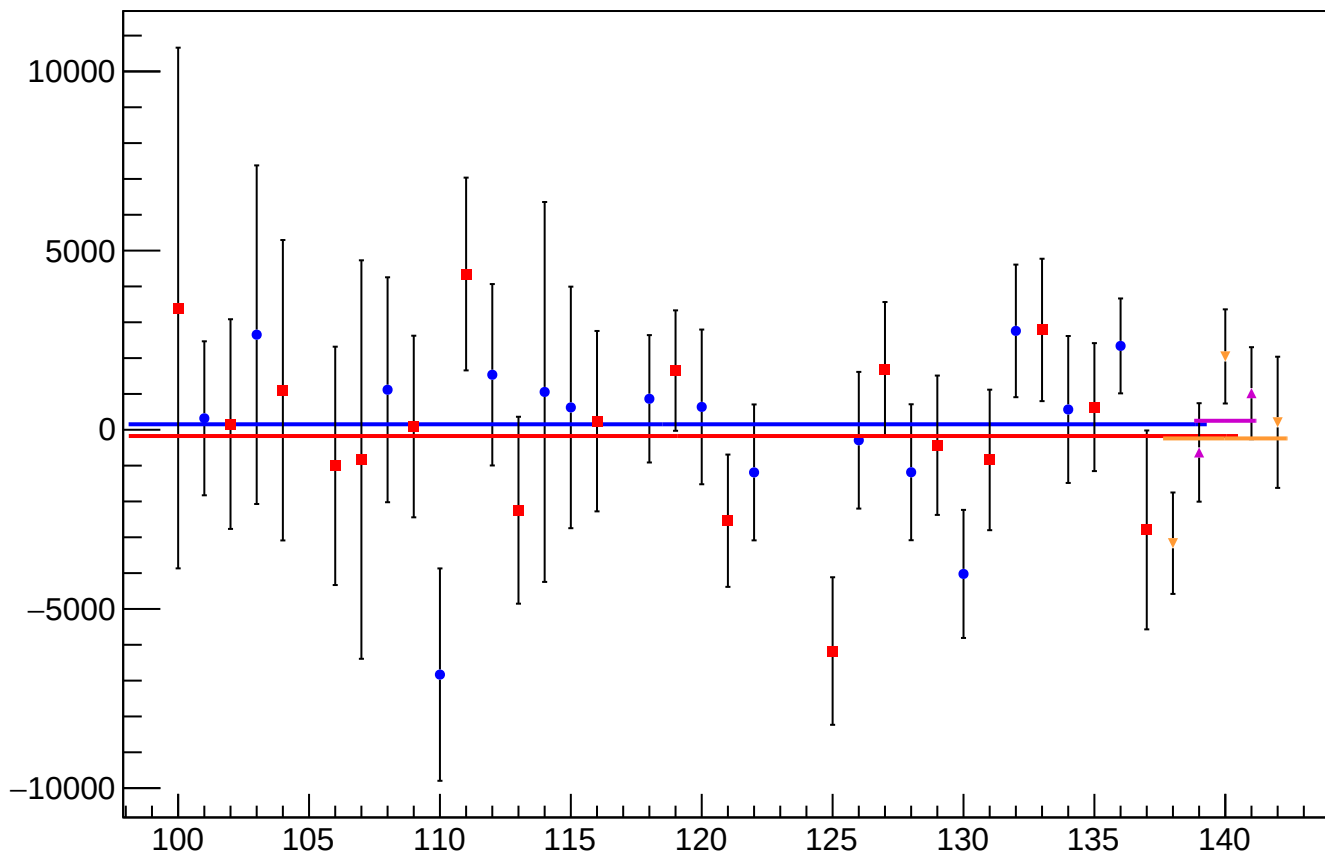
Right: 563.103+/-0.112 χ^2/NDF : 3754001.7/33

In: 537.605+/-0.134 χ^2/NDF : 1697498.9/17

Out: 519.445+/-0.130 χ^2/NDF : 2552880.8/20

All: 528.218+/-0.093 χ^2/NDF : 4259870.0/38

asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: 153.375+/-532.096 χ^2/NDF : 17.8/15

Left Out: -241.357+/-852.066 χ^2/NDF : 7.4/2

Right Out: -174.319+/-550.153 χ^2/NDF : 19.7/17

Left In: 251.176+/-937.829 χ^2/NDF : 0.8/1

Left: -18.636+/-630.647 χ^2/NDF : 8.3/4

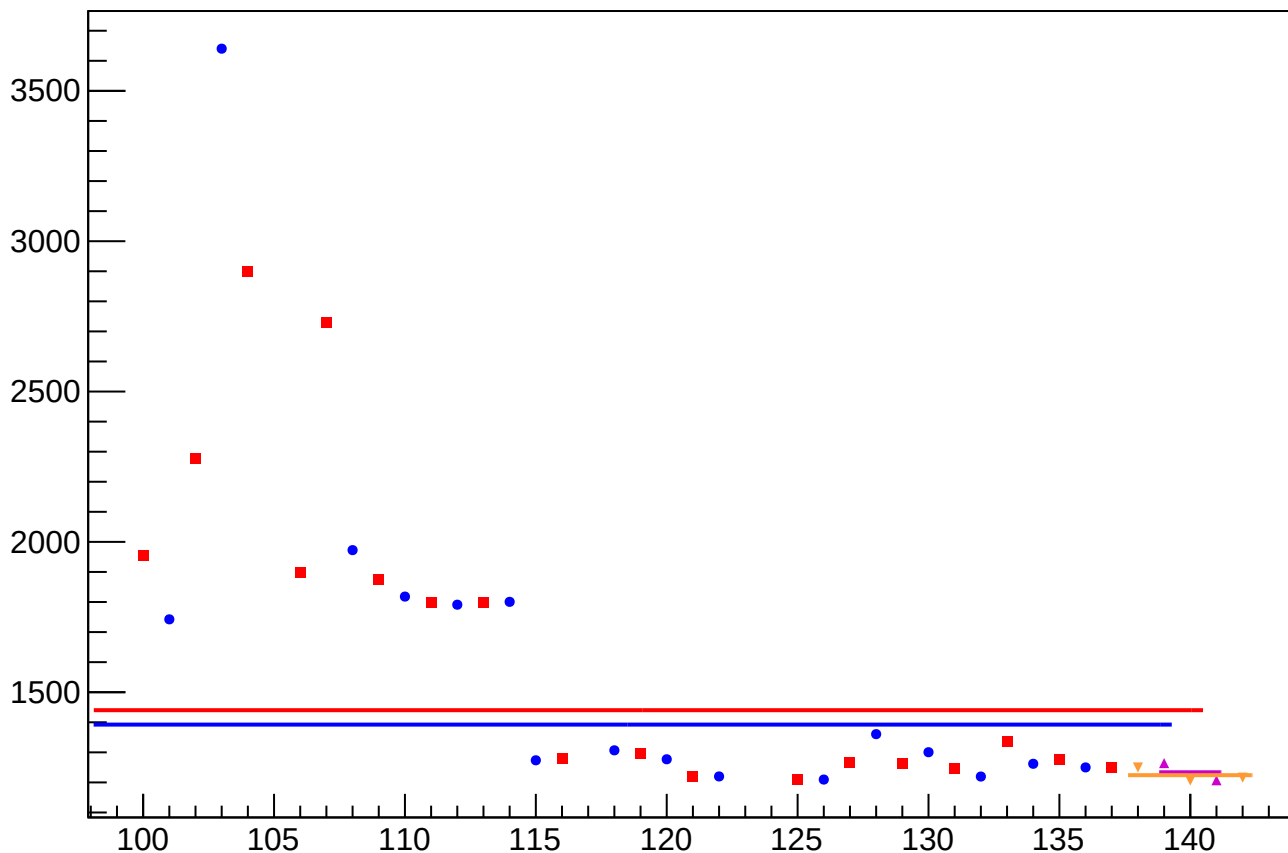
Right: -5.006+/-382.473 χ^2/NDF : 37.6/33

In: 177.191+/-462.796 χ^2/NDF : 18.5/17

Out: -194.044+/-462.185 χ^2/NDF : 27.0/20

All: -8.671+/-327.030 χ^2/NDF : 45.9/38

asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1392.299+/-0.376 χ^2/NDF : 779240.9/15

Left Out: 1224.114+/-0.603 χ^2/NDF : 1063.8/2

Right Out: 1440.222+/-0.389 χ^2/NDF : 854885.8/17

Left In: 1233.752+/-0.663 χ^2/NDF : 1840.1/1

Left: 1228.472+/-0.446 χ^2/NDF : 3019.6/4

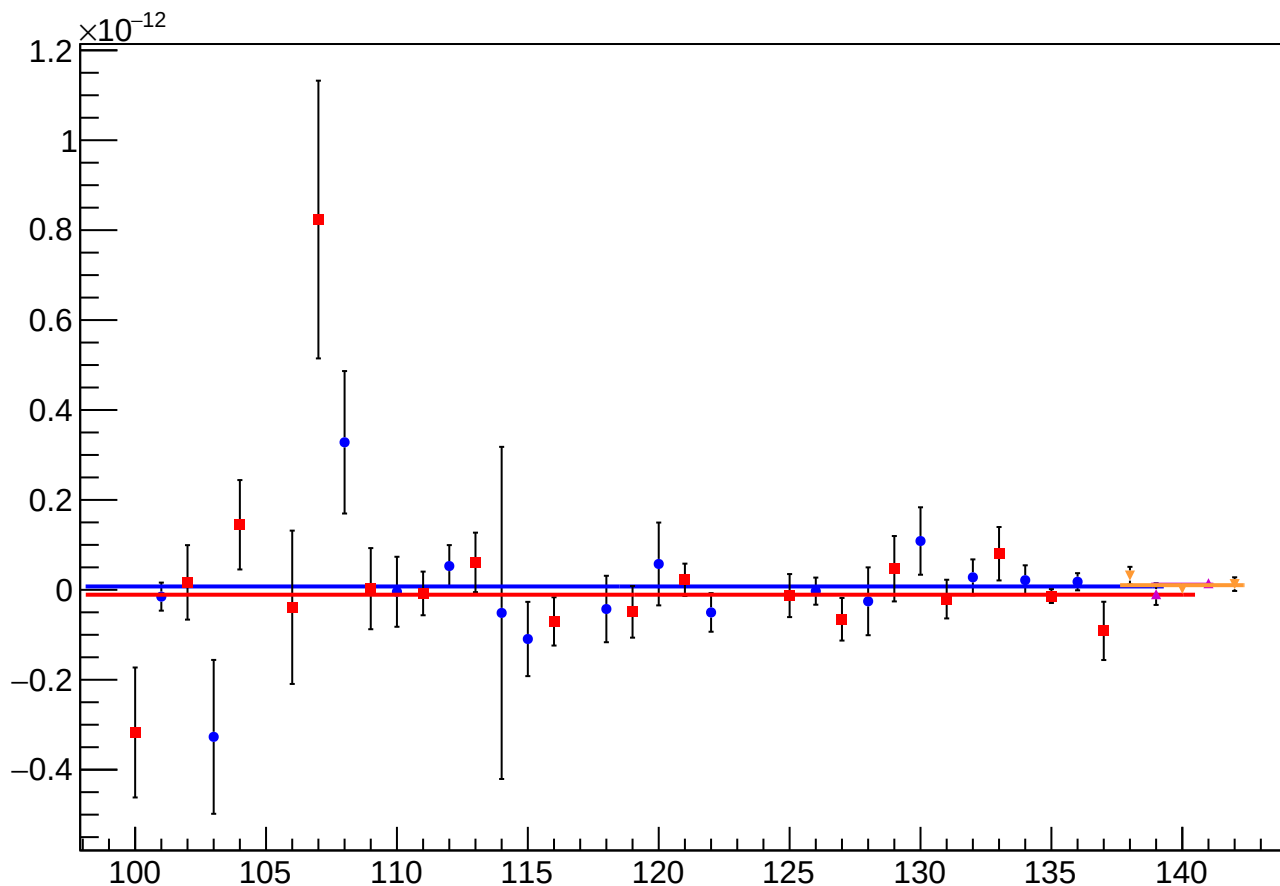
Right: 1415.461+/-0.270 χ^2/NDF : 1641967.9/33

In: 1353.690+/-0.327 χ^2/NDF : 824322.0/17

Out: 1376.637+/-0.327 χ^2/NDF : 946750.3/20

All: 1365.179+/-0.231 χ^2/NDF : 1773534.1/38

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1.8/2

Right Out: -0.000+/-0.000 χ^2/NDF : 24.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.9/1

Left: 0.000+/-0.000 χ^2/NDF : 2.7/4

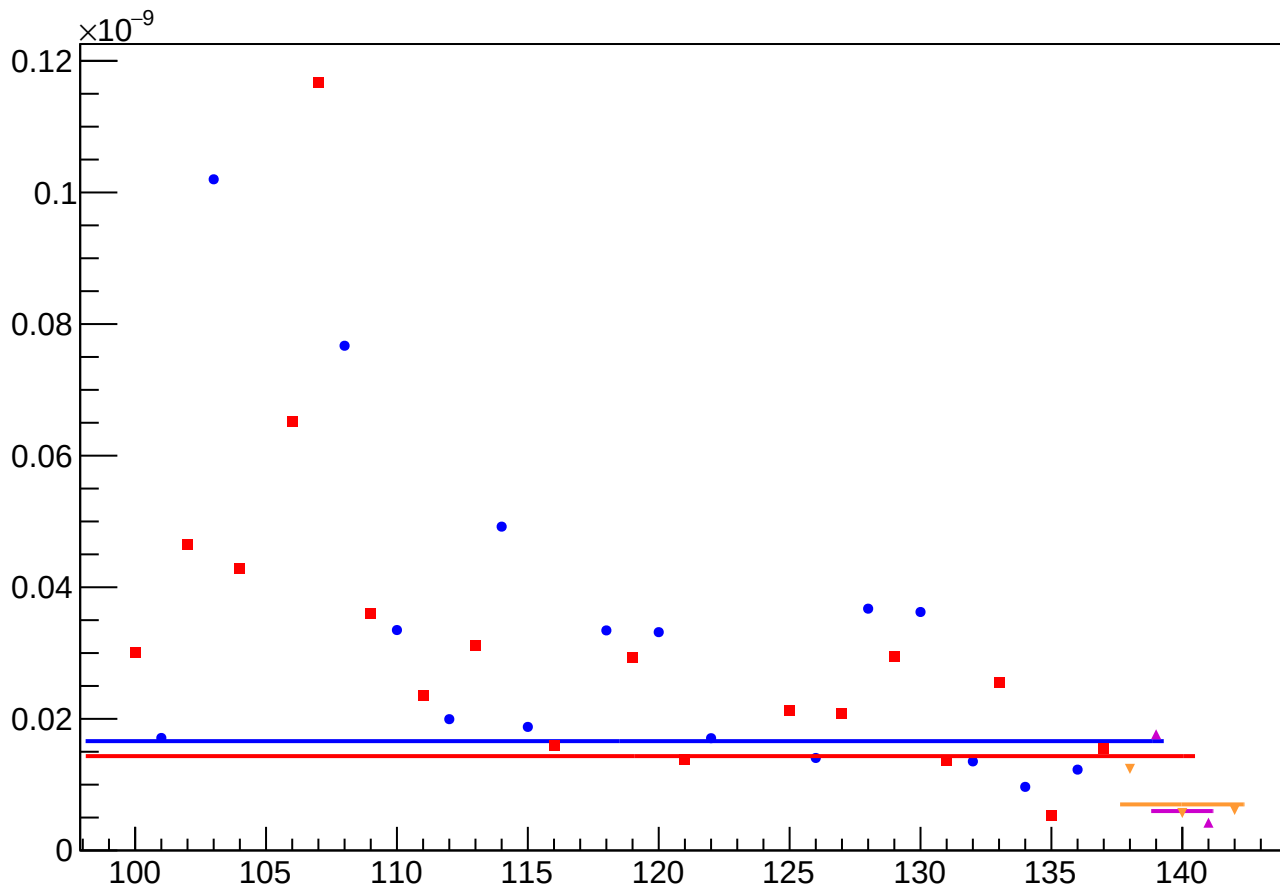
Right: -0.000+/-0.000 χ^2/NDF : 42.4/33

In: 0.000+/-0.000 χ^2/NDF : 17.8/17

Out: 0.000+/-0.000 χ^2/NDF : 28.3/20

All: 0.000+/-0.000 χ^2/NDF : 46.8/38

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1573068.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 188322.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2258014.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 542968.9/1

Left: 0.000+/-0.000 χ^2/NDF : 745700.7/4

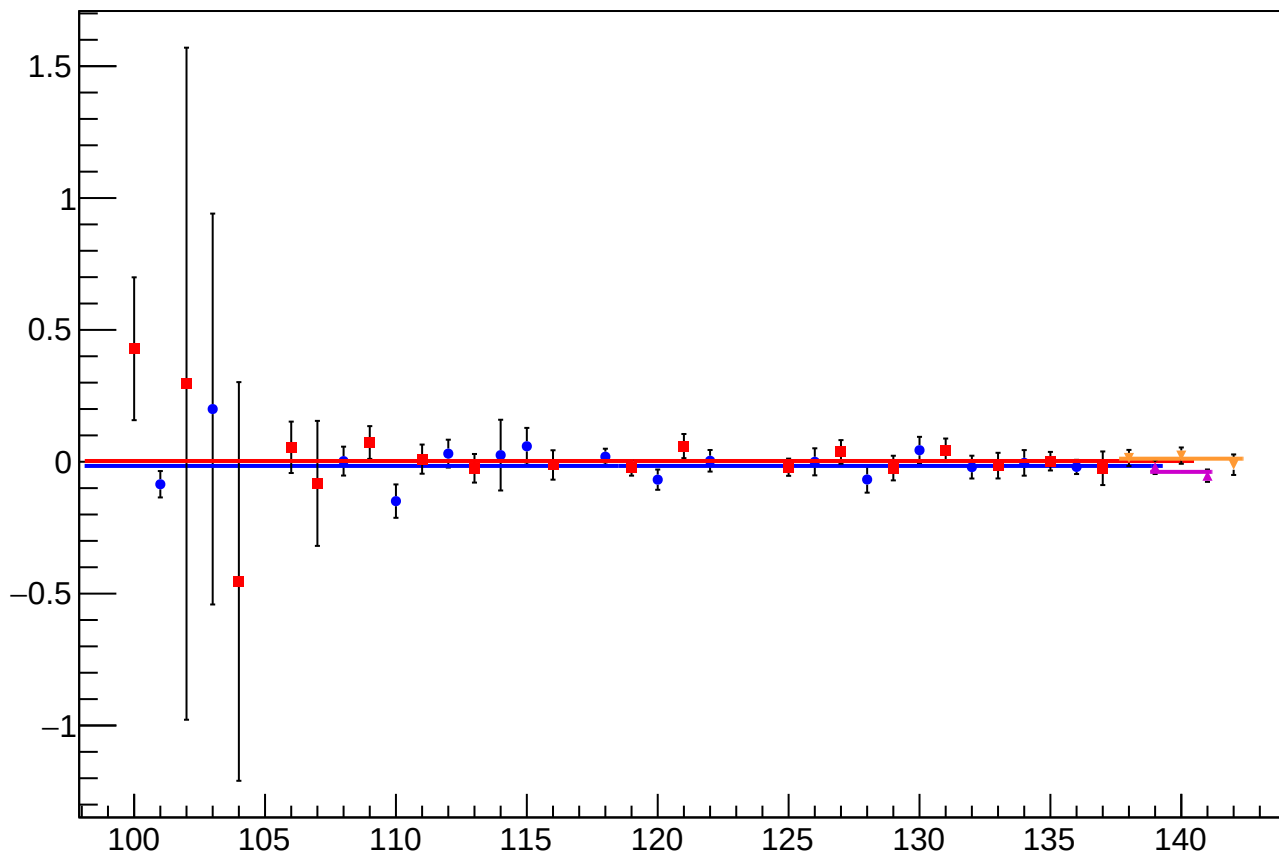
Right: 0.000+/-0.000 χ^2/NDF : 3876075.8/33

In: 0.000+/-0.000 χ^2/NDF : 3281545.3/17

Out: 0.000+/-0.000 χ^2/NDF : 3049789.5/20

All: 0.000+/-0.000 χ^2/NDF : 6335319.3/38

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 14.6/15

Left Out: 0.012 ± 0.019 χ^2/NDF : 0.5/2

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.038 ± 0.018 χ^2/NDF : 0.9/1

Left: -0.015 ± 0.013 χ^2/NDF : 5.1/4

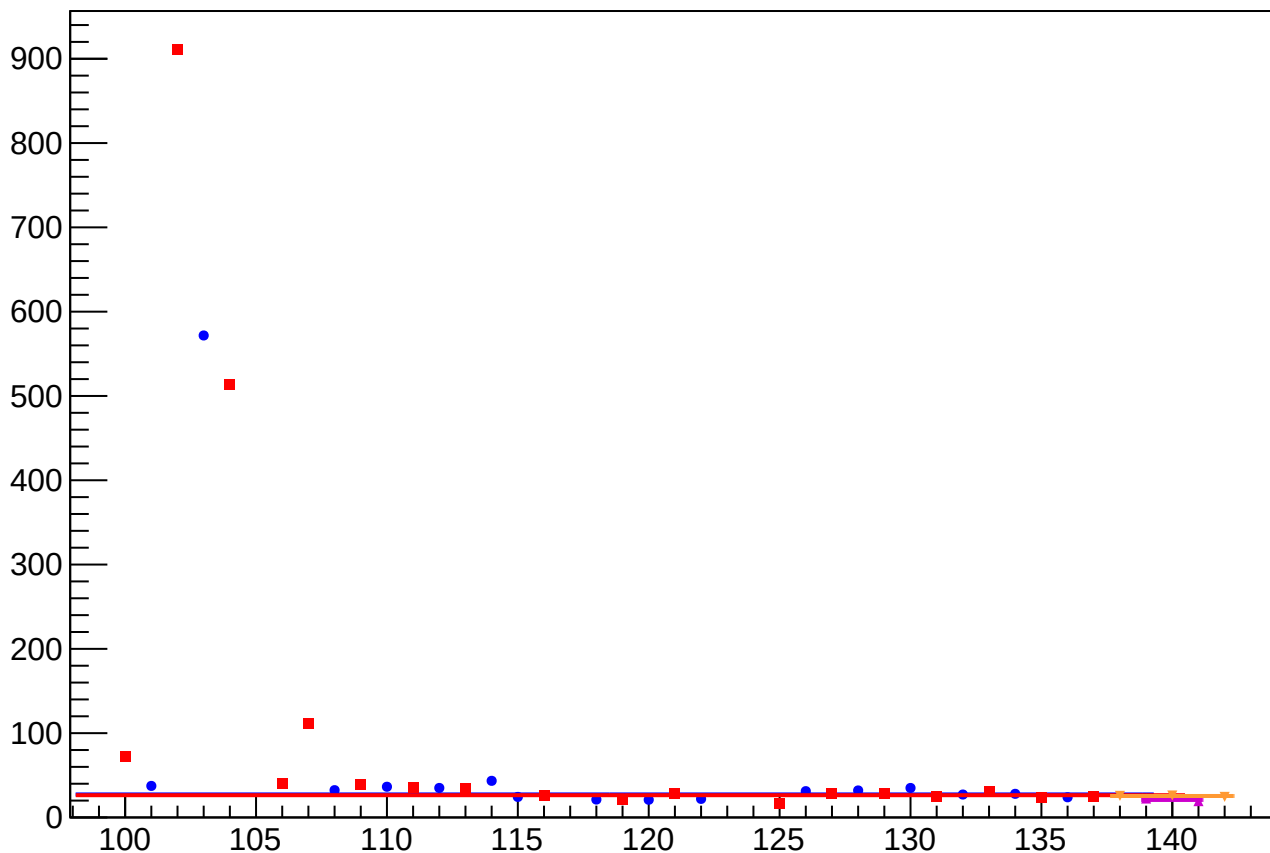
Right: -0.007 ± 0.008 χ^2/NDF : 25.8/33

In: -0.023 ± 0.010 χ^2/NDF : 16.6/17

Out: 0.005 ± 0.010 χ^2/NDF : 10.5/20

All: -0.009 ± 0.007 χ^2/NDF : 31.2/38

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.305+/-0.008 χ^2/NDF : 1568329.0/15

Left Out: 25.465+/-0.013 χ^2/NDF :2247.4/2

Right Out: 26.400+/-0.009 χ^2/NDF : 2614691.8/17

Left In: 20.759+/-0.012 χ^2/NDF :15533.9/1

Left: 22.922+/-0.009 χ^2/NDF : 84172.9/4

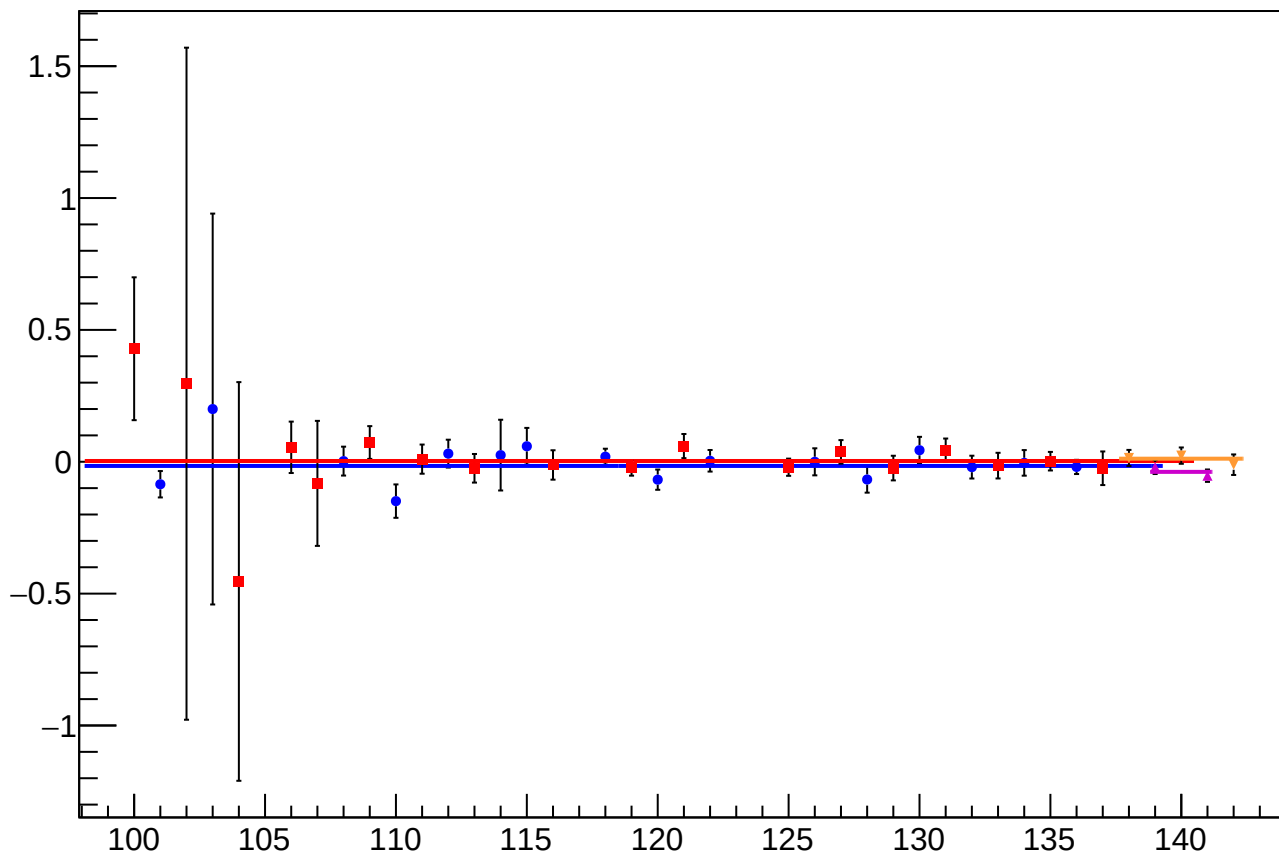
Right: 26.870+/-0.006 χ^2/NDF : 4188911.1/33

In: 25.319+/-0.007 χ^2/NDF :1778514.1/17

Out: 26.133+/-0.007 χ^2/NDF :2620398.1/20

All: 25.705+/-0.005 χ^2/NDF : 4405665.8/38

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 14.6/15

Left Out: 0.012 ± 0.019 χ^2/NDF : 0.5/2

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.038 ± 0.018 χ^2/NDF : 0.9/1

Left: -0.015 ± 0.013 χ^2/NDF : 5.1/4

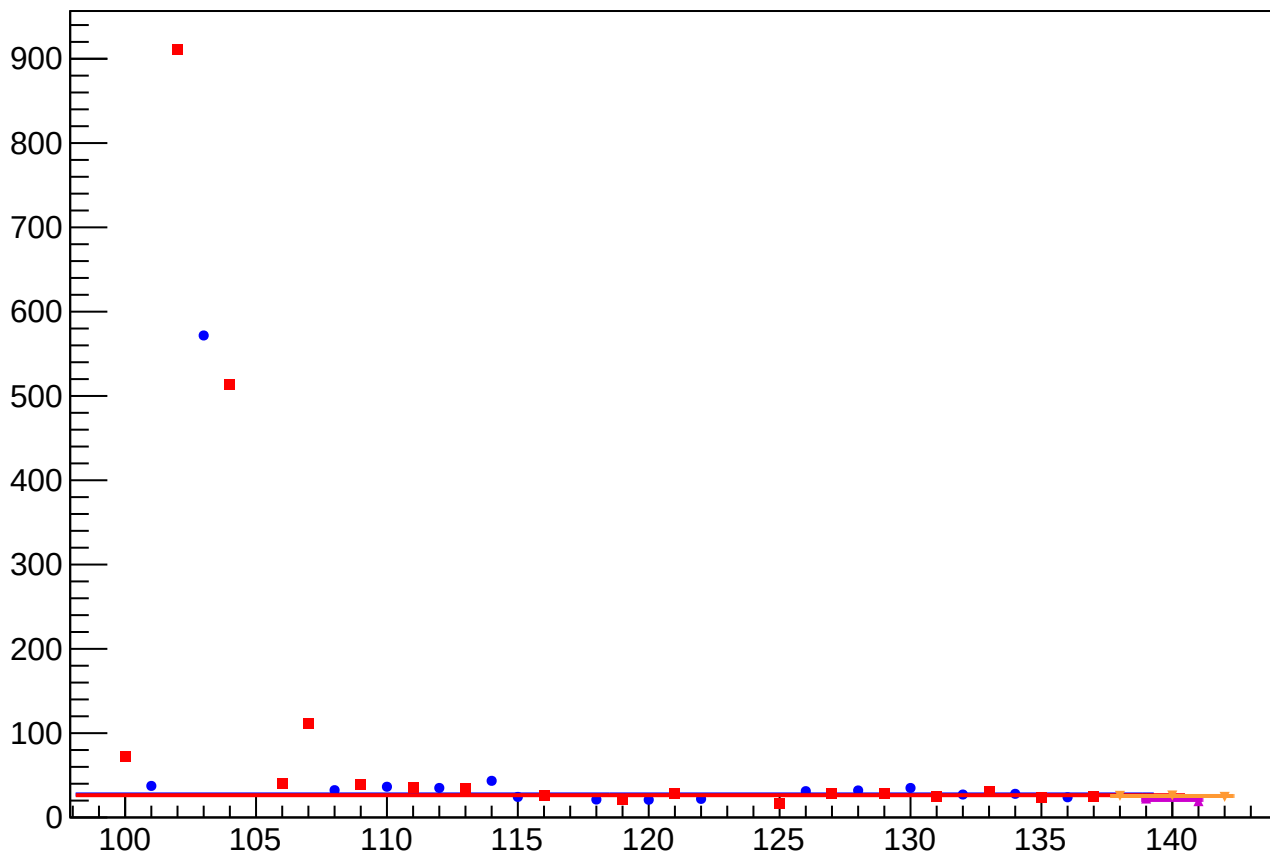
Right: -0.007 ± 0.008 χ^2/NDF : 25.8/33

In: -0.023 ± 0.010 χ^2/NDF : 16.6/17

Out: 0.005 ± 0.010 χ^2/NDF : 10.5/20

All: -0.009 ± 0.007 χ^2/NDF : 31.2/38

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.305+/-0.008 χ^2/NDF : 1568329.0/15

Left Out: 25.465+/-0.013 χ^2/NDF :2247.4/2

Right Out: 26.400+/-0.009 χ^2/NDF : 2614691.8/17

Left In: 20.759+/-0.012 χ^2/NDF :15533.9/1

Left: 22.922+/-0.009 χ^2/NDF : 84172.9/4

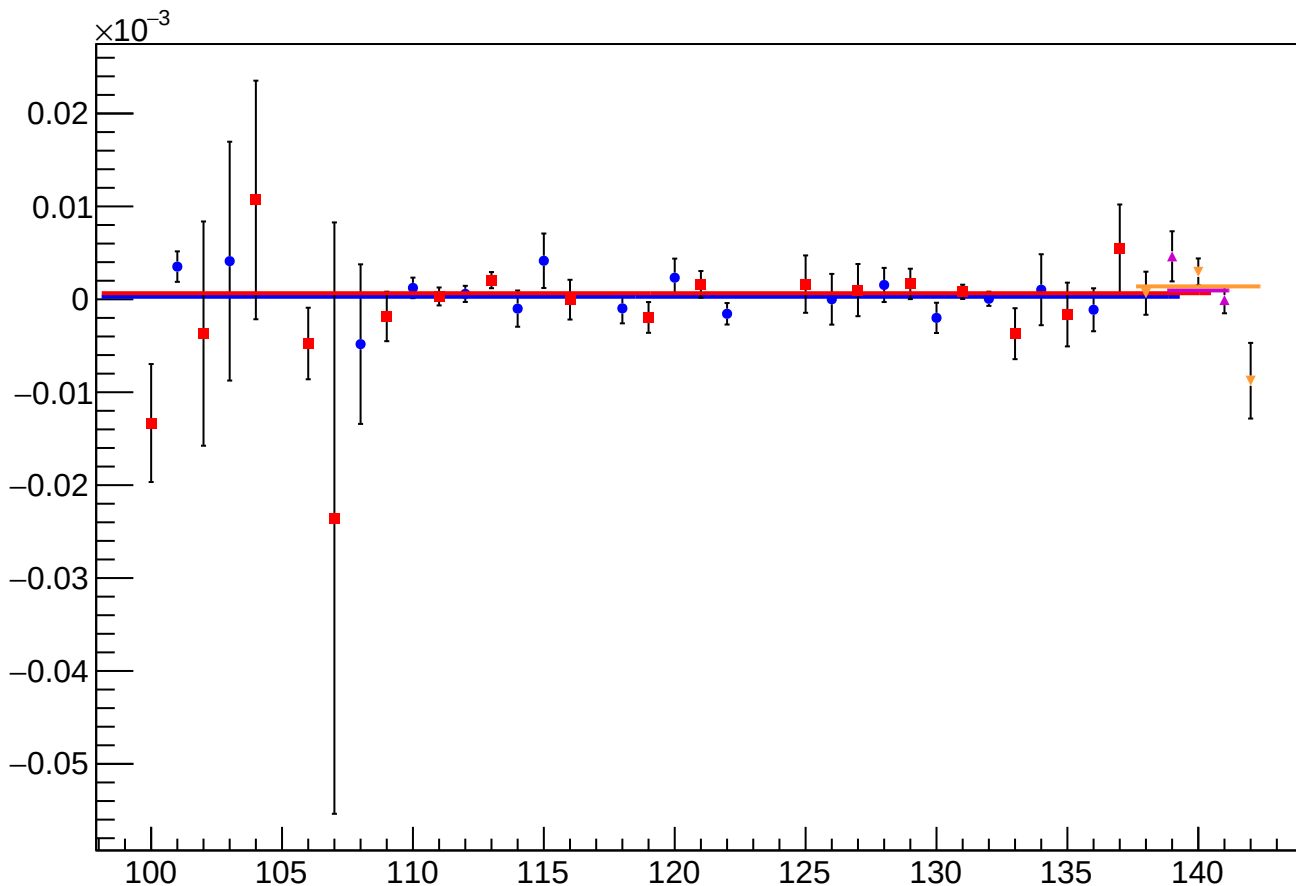
Right: 26.870+/-0.006 χ^2/NDF : 4188911.1/33

In: 25.319+/-0.007 χ^2/NDF :1778514.1/17

Out: 26.133+/-0.007 χ^2/NDF :2620398.1/20

All: 25.705+/-0.005 χ^2/NDF : 4405665.8/38

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2 /NDF: 14.4/15

Left Out: 0.000+/-0.000 χ^2 /NDF:7.5/2

Right Out: 0.000+/-0.000 χ^2 /NDF: 19.3/17

Left In: 0.000+/-0.000 χ^2 /NDF:2.4/1

Left: 0.000+/-0.000 χ^2 /NDF: 9.9/4

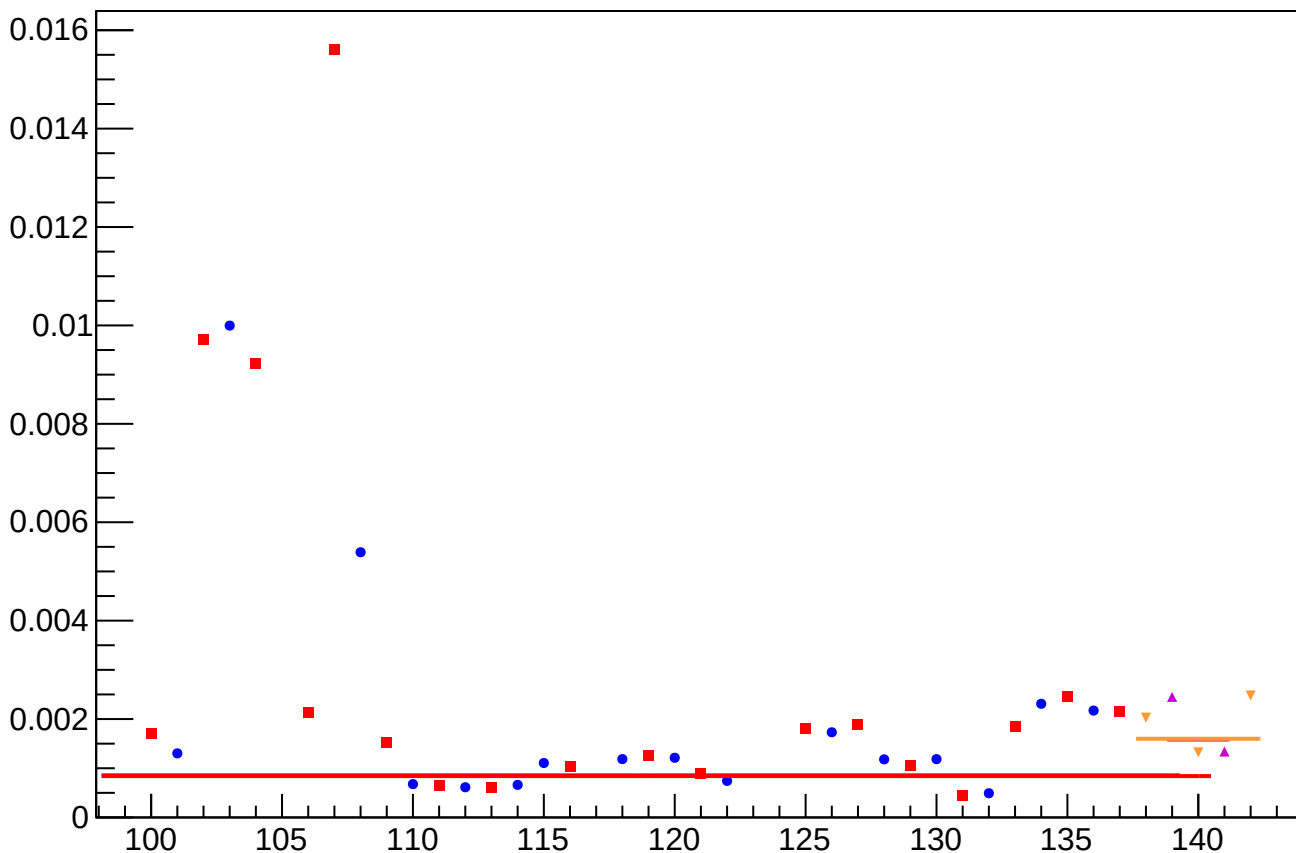
Right: 0.000+/-0.000 χ^2 /NDF: 34.2/33

In: 0.000+/-0.000 χ^2 /NDF:17.1/17

Out: 0.000+/-0.000 χ^2 /NDF:27.1/20

All: 0.000+/-0.000 χ^2 /NDF: 44.8/38

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 3863719.0/15

Left Out: 0.002+/-0.000 χ^2/NDF : 234693.4/2

Right Out: 0.001+/-0.000 χ^2/NDF : 5039455.2/17

Left In: 0.002+/-0.000 χ^2/NDF : 265008.5/1

Left: 0.002+/-0.000 χ^2/NDF : 499870.9/4

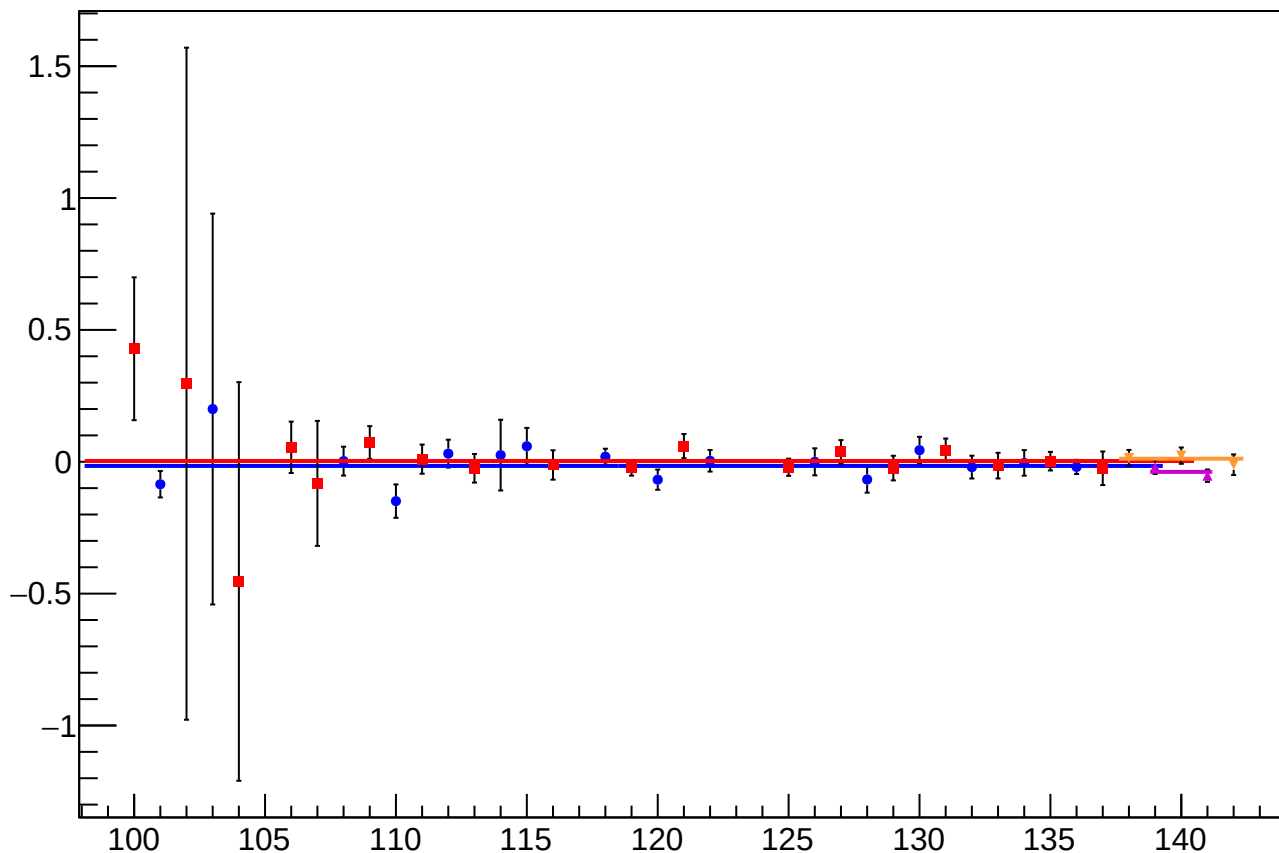
Right: 0.001+/-0.000 χ^2/NDF : 8904244.0/33

In: 0.001+/-0.000 χ^2/NDF : 4742713.4/17

Out: 0.001+/-0.000 χ^2/NDF : 6022470.4/20

All: 0.001+/-0.000 χ^2/NDF : 10765474.2/38

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 14.6/15

Left Out: 0.012 ± 0.019 χ^2/NDF : 0.5/2

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.038 ± 0.018 χ^2/NDF : 0.9/1

Left: -0.015 ± 0.013 χ^2/NDF : 5.1/4

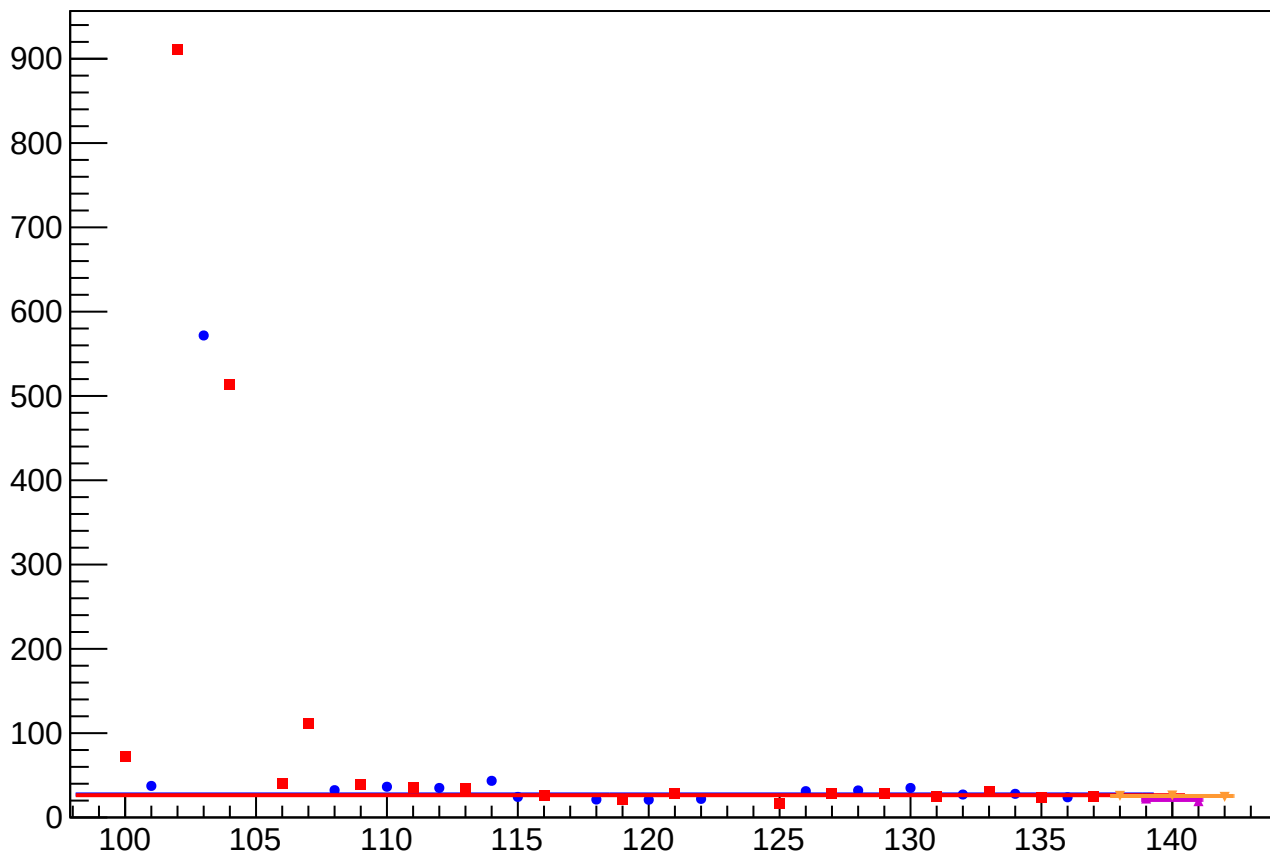
Right: -0.007 ± 0.008 χ^2/NDF : 25.7/33

In: -0.023 ± 0.010 χ^2/NDF : 16.6/17

Out: 0.005 ± 0.010 χ^2/NDF : 10.5/20

All: -0.009 ± 0.007 χ^2/NDF : 31.1/38

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.305+/-0.008 χ^2/NDF : 1568325.9/15

Left Out: 25.465+/-0.013 χ^2/NDF :2248.0/2

Right Out: 26.400+/-0.009 χ^2/NDF : 2614710.8/17

Left In: 20.758+/-0.012 χ^2/NDF :15547.1/1

Left: 22.922+/-0.009 χ^2/NDF : 84191.1/4

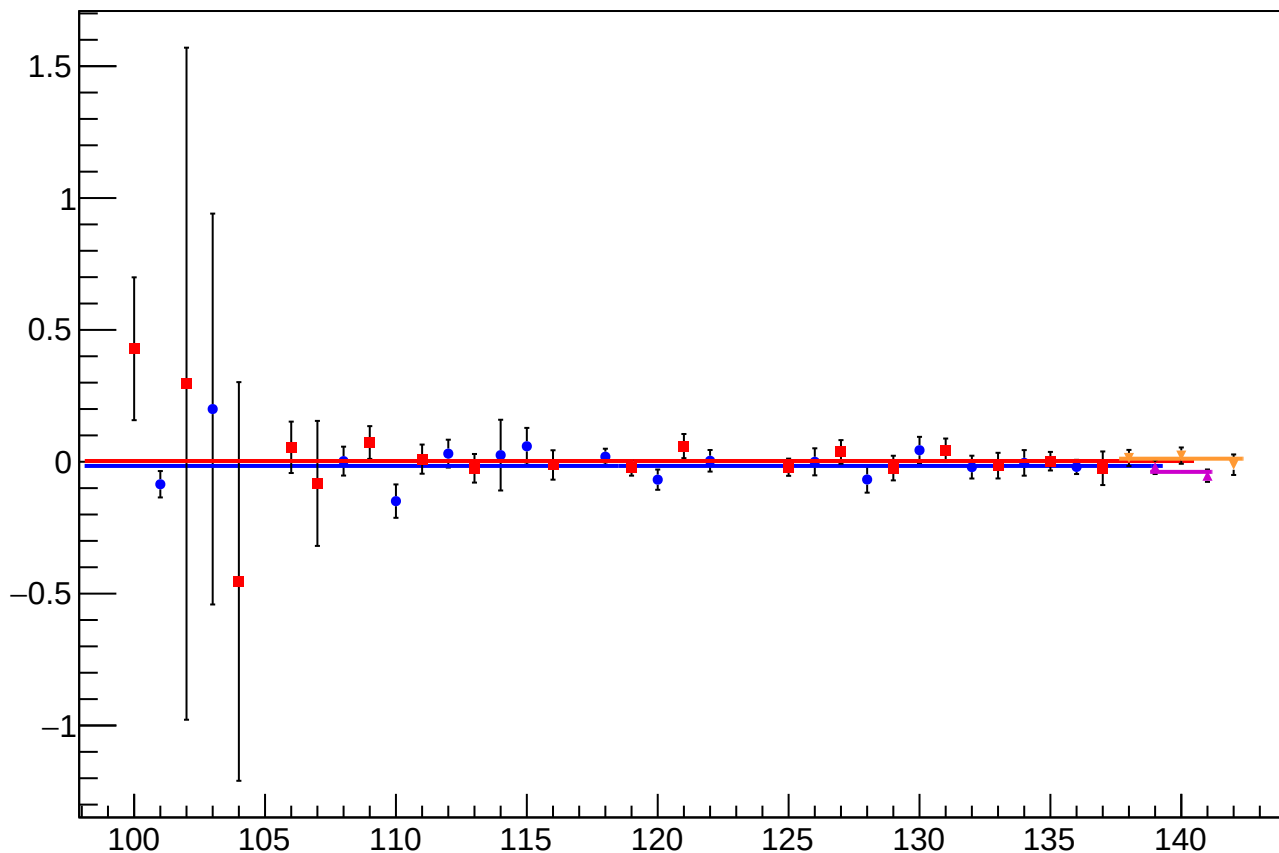
Right: 26.870+/-0.006 χ^2/NDF : 4188927.1/33

In: 25.318+/-0.007 χ^2/NDF :1778536.8/17

Out: 26.133+/-0.007 χ^2/NDF :2620418.0/20

All: 25.705+/-0.005 χ^2/NDF : 4405709.3/38

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 14.6/15

Left Out: 0.012 ± 0.019 χ^2/NDF : 0.5/2

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.038 ± 0.018 χ^2/NDF : 0.9/1

Left: -0.015 ± 0.013 χ^2/NDF : 5.1/4

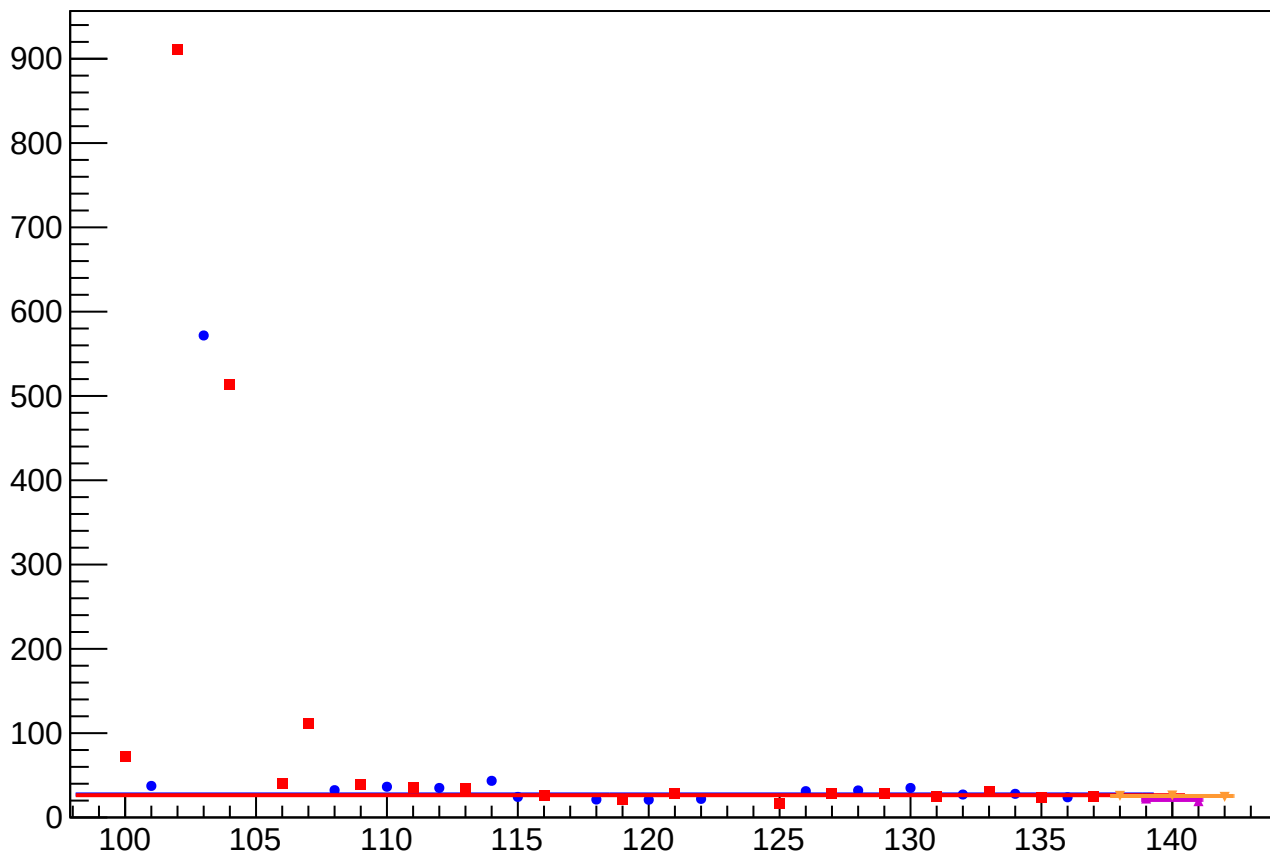
Right: -0.007 ± 0.008 χ^2/NDF : 25.7/33

In: -0.023 ± 0.010 χ^2/NDF : 16.6/17

Out: 0.005 ± 0.010 χ^2/NDF : 10.5/20

All: -0.009 ± 0.007 χ^2/NDF : 31.1/38

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.305+/-0.008 χ^2/NDF : 1568325.9/15

Left Out: 25.465+/-0.013 χ^2/NDF : 2248.0/2

Right Out: 26.400+/-0.009 χ^2/NDF : 2614710.8/17

Left In: 20.758+/-0.012 χ^2/NDF : 15547.1/1

Left: 22.922+/-0.009 χ^2/NDF : 84191.1/4

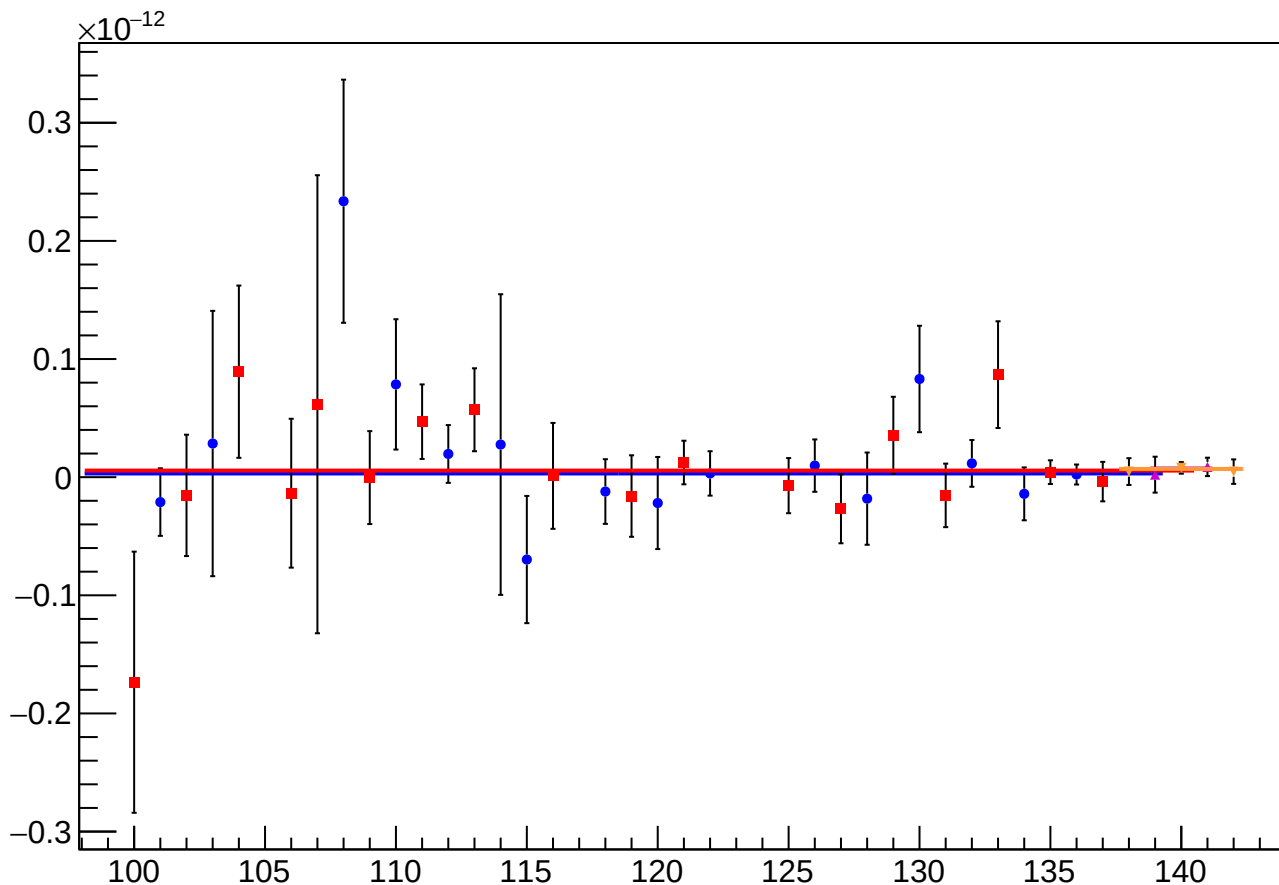
Right: 26.870+/-0.006 χ^2/NDF : 4188927.1/33

In: 25.318+/-0.007 χ^2/NDF : 1778536.8/17

Out: 26.133+/-0.007 χ^2/NDF : 2620418.0/20

All: 25.705+/-0.005 χ^2/NDF : 4405709.3/38

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 15.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.1/1

Left: 0.000+/-0.000 χ^2/NDF : 0.3/4

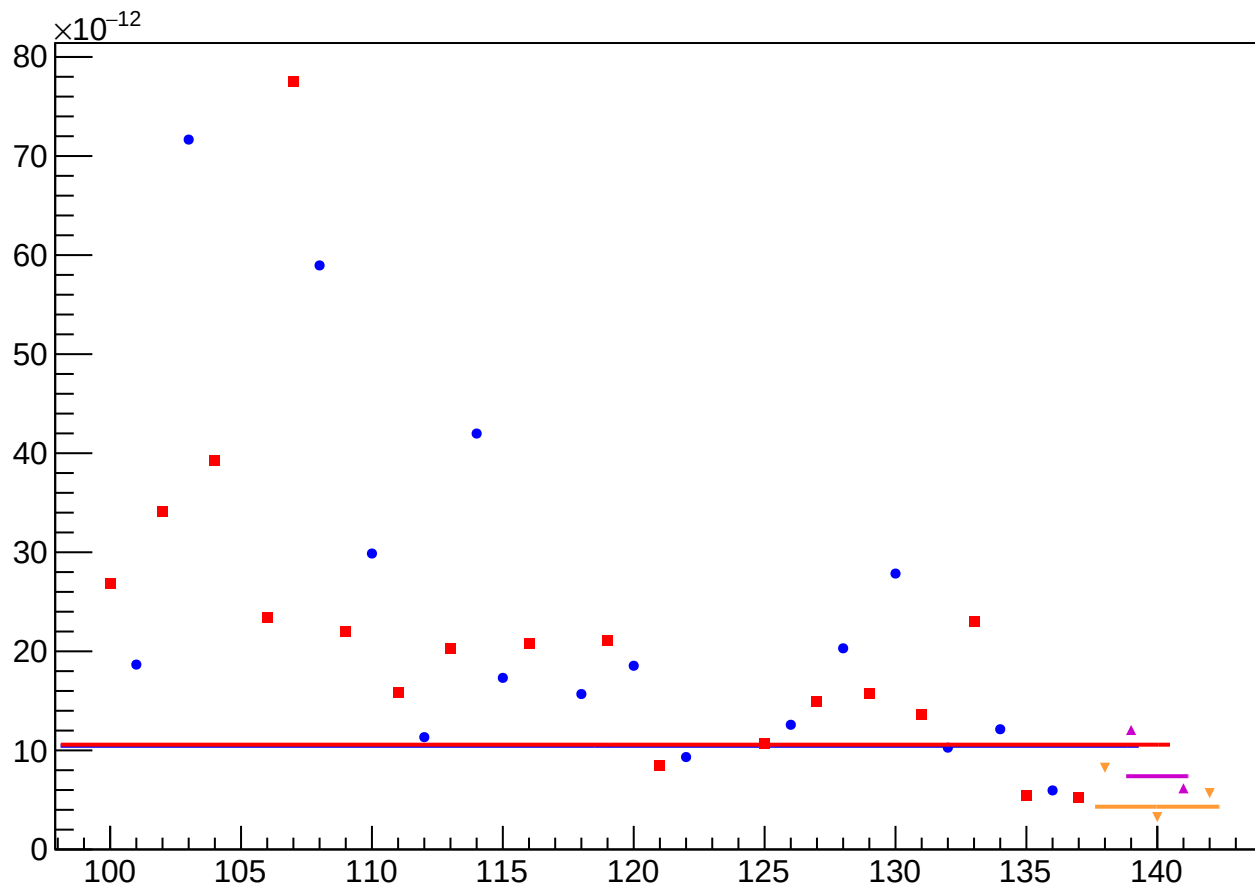
Right: 0.000+/-0.000 χ^2/NDF : 30.4/33

In: 0.000+/-0.000 χ^2/NDF : 15.4/17

Out: 0.000+/-0.000 χ^2/NDF : 15.4/20

All: 0.000+/-0.000 χ^2/NDF : 30.9/38

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2794895.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 367497.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2771384.1/17

Left In: 0.000+/-0.000 χ^2/NDF : 237990.9/1

Left: 0.000+/-0.000 χ^2/NDF : 896720.9/4

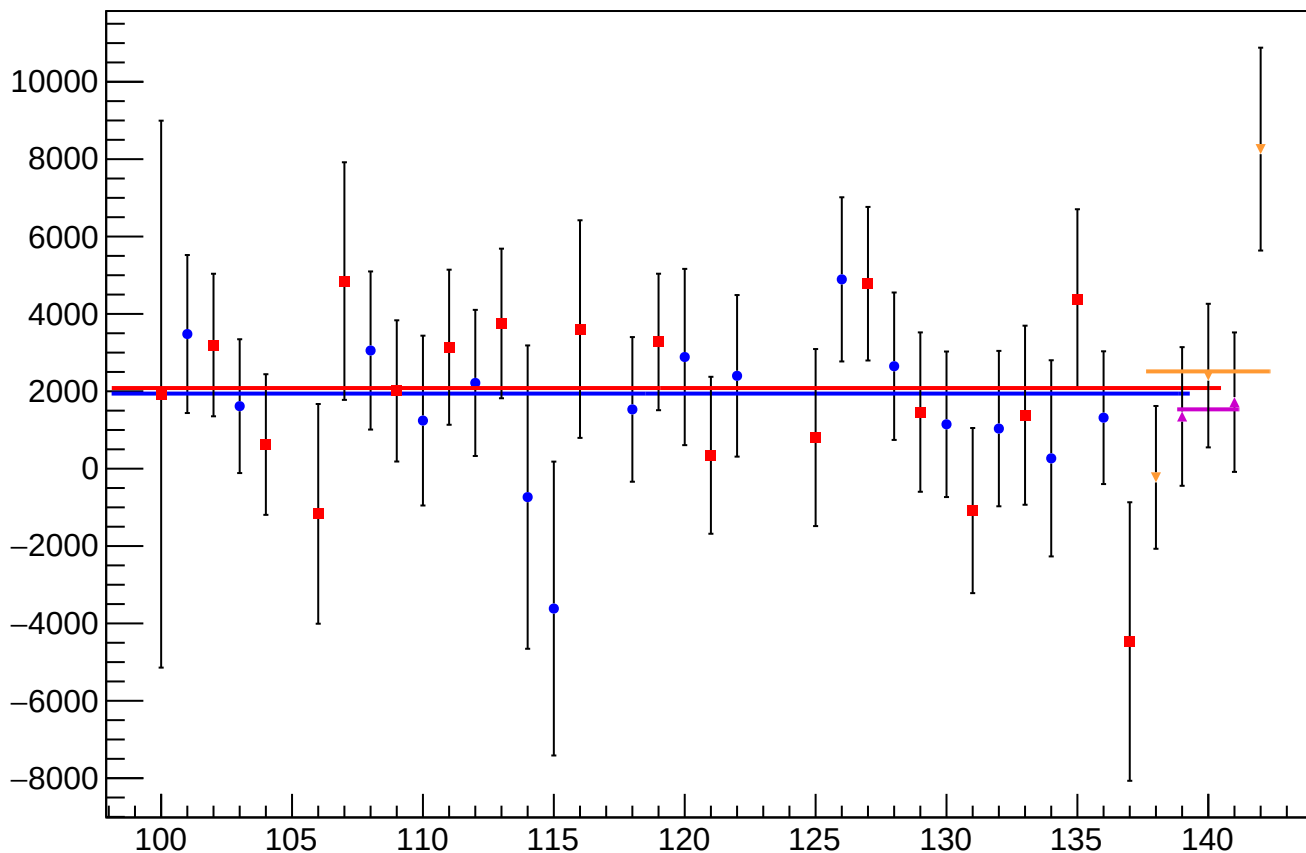
Right: 0.000+/-0.000 χ^2/NDF : 5566631.8/33

In: 0.000+/-0.000 χ^2/NDF : 3265883.3/17

Out: 0.000+/-0.000 χ^2/NDF : 4586082.2/20

All: 0.000+/-0.000 χ^2/NDF : 8397134.8/38

reg_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1940.976+/-522.174 χ^2/NDF : 6.9/15

Left Out: 2514.189+/-1170.878 χ^2/NDF : 7.0/2

Right Out: 2083.952+/-519.583 χ^2/NDF : 14.5/17

Left In: 1533.100+/-1270.775 χ^2/NDF : 0.0/1

Left: 2063.717+/-861.089 χ^2/NDF : 7.4/4

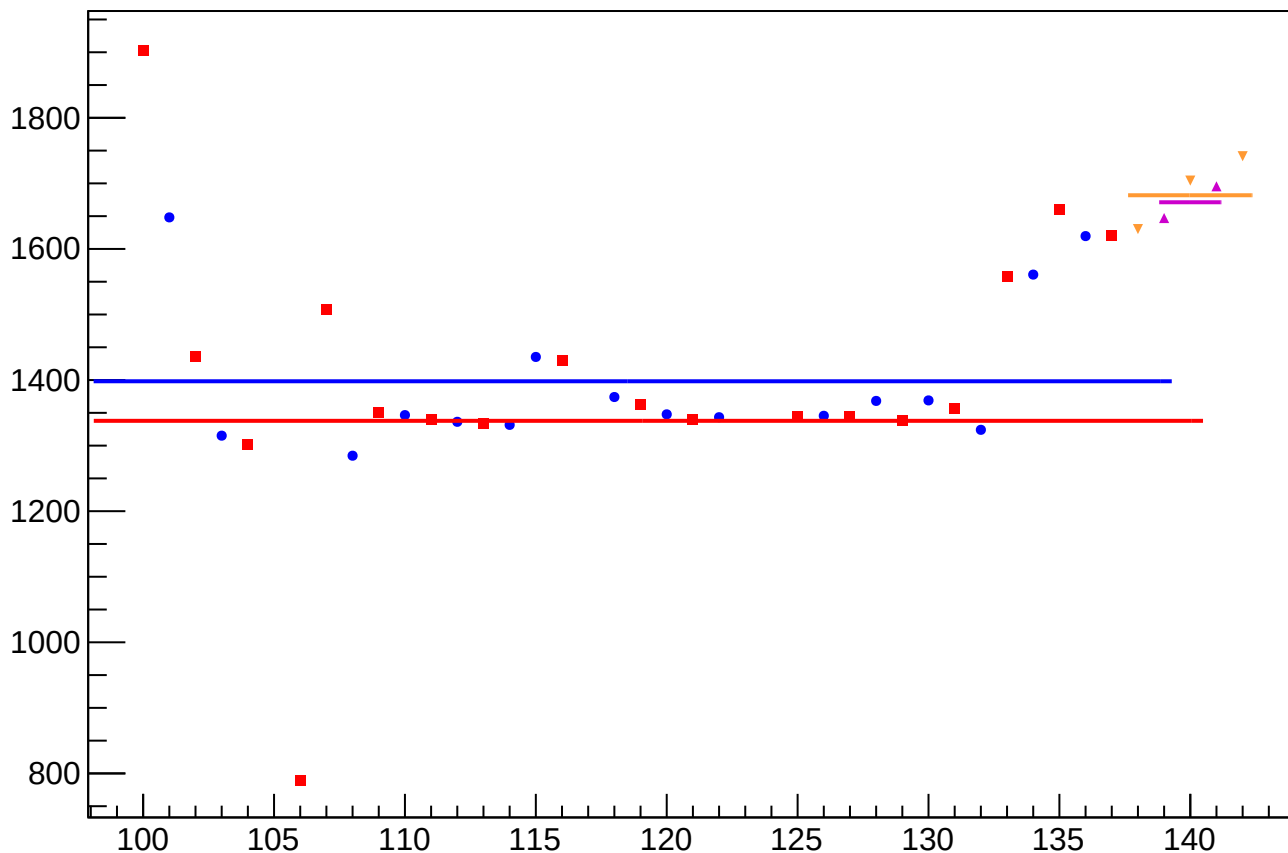
Right: 2012.819+/-368.313 χ^2/NDF : 21.4/33

In: 1882.056+/-482.988 χ^2/NDF : 7.0/17

Out: 2154.735+/-474.923 χ^2/NDF : 21.6/20

All: 2020.691+/-338.637 χ^2/NDF : 28.8/38

reg_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1398.161+/-0.369 χ^2/NDF : 93923.6/15

Left Out: 1681.893+/-0.828 χ^2/NDF : 2885.1/2

Right Out: 1337.819+/-0.356 χ^2/NDF : 317763.3/17

Left In: 1671.201+/-0.899 χ^2/NDF : 724.8/1

Left: 1676.984+/-0.609 χ^2/NDF : 3686.5/4

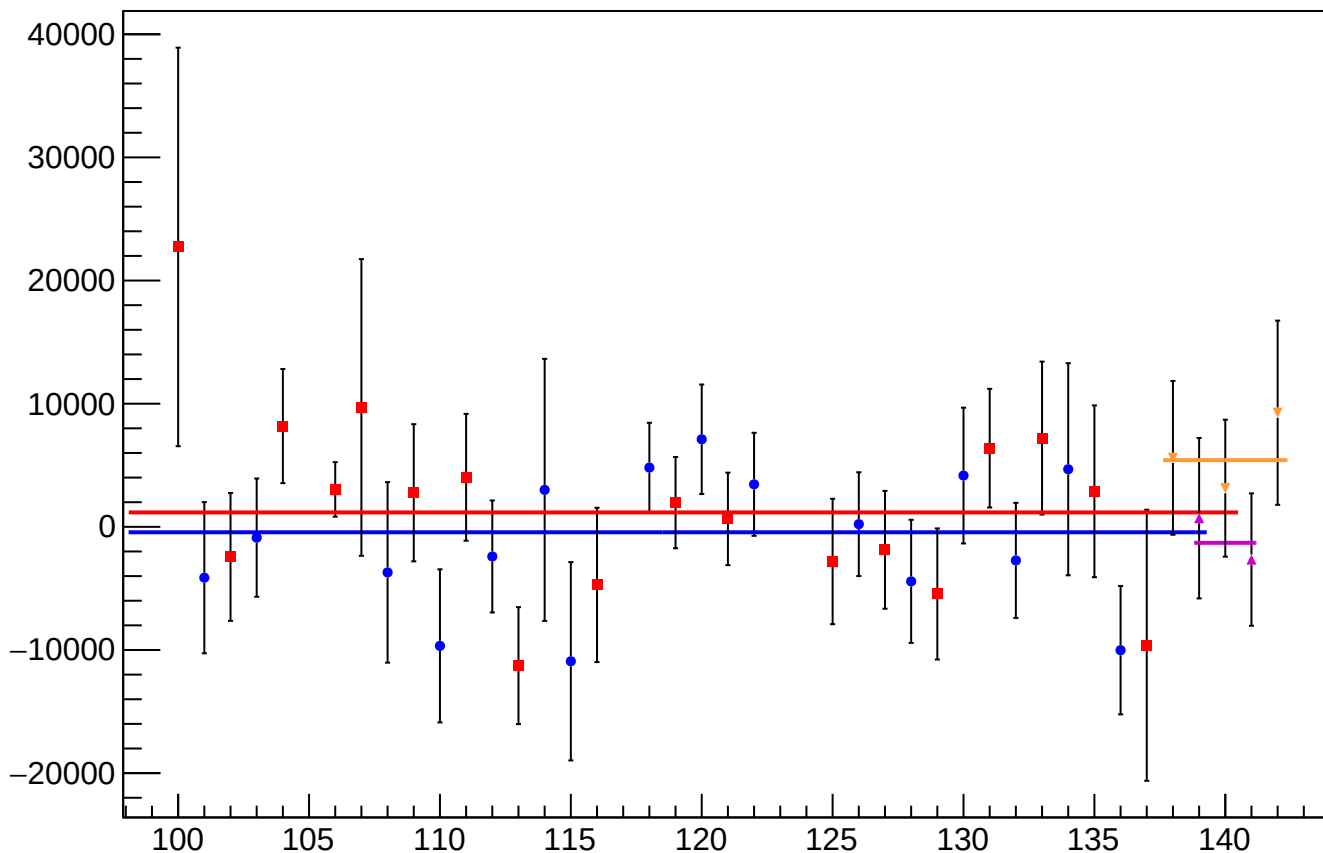
Right: 1366.881+/-0.256 χ^2/NDF : 425531.4/33

In: 1437.603+/-0.342 χ^2/NDF : 173641.5/17

Out: 1391.484+/-0.327 χ^2/NDF : 466418.8/20

All: 1413.540+/-0.236 χ^2/NDF : 649574.8/38

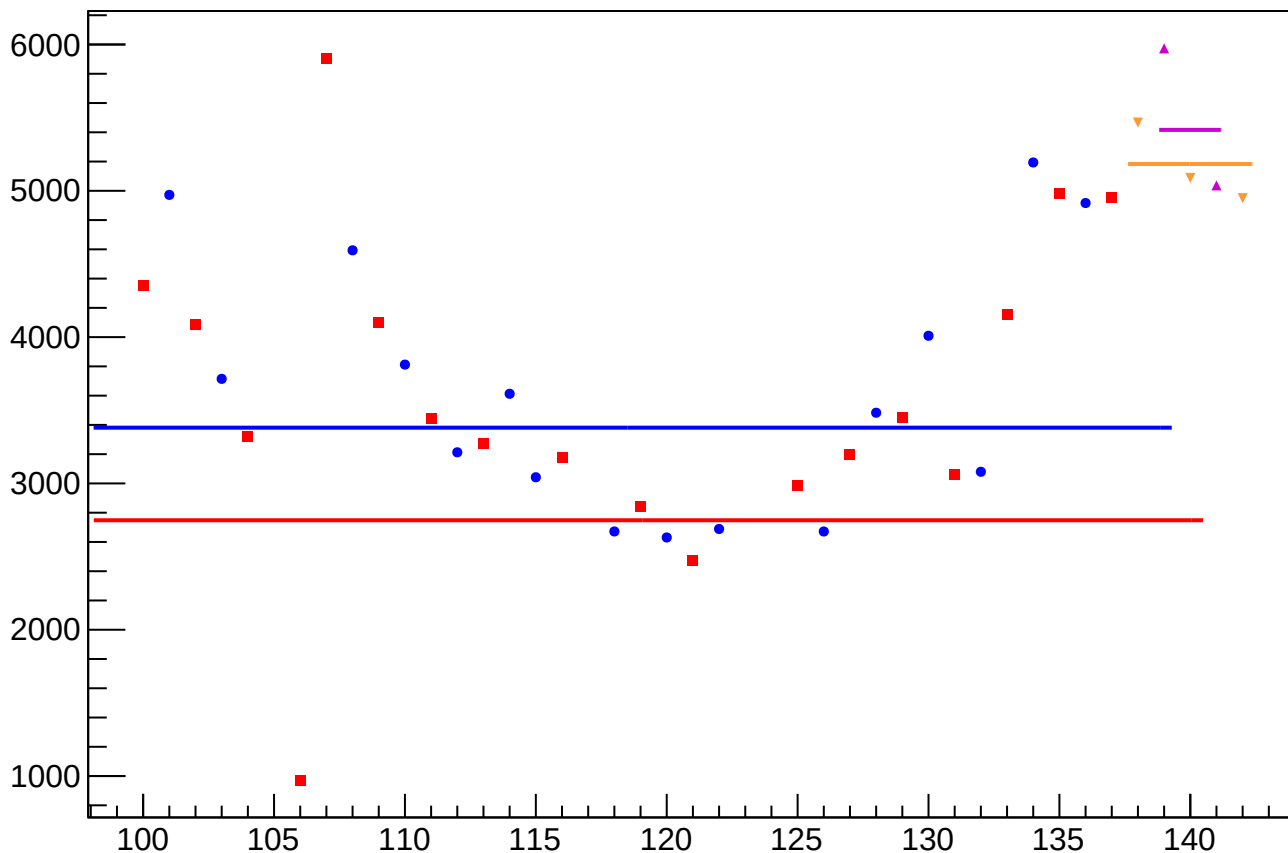
asym_usl_atl2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -441.138 ± 1295.916 $\chi^2/\text{NDF}: 15.9/15$
 Left Out: 5416.397 ± 3630.615 $\chi^2/\text{NDF}: 0.4/2$
 Right Out: 1171.548 ± 1119.890 $\chi^2/\text{NDF}: 19.7/17$
 Left In: -1296.464 ± 4146.397 $\chi^2/\text{NDF}: 0.2/1$

Left: 2503.223 ± 2731.494 $\chi^2/\text{NDF}: 2.1/4$
 Right: 482.092 ± 847.335 $\chi^2/\text{NDF}: 36.5/33$
 In: -517.252 ± 1236.912 $\chi^2/\text{NDF}: 16.1/17$
 Out: 1540.339 ± 1070.137 $\chi^2/\text{NDF}: 21.3/20$
 All: 659.512 ± 809.291 $\chi^2/\text{NDF}: 39.0/38$

asym_usl_atl2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 3381.117+/-0.916

χ^2/NDF : 757146.6/15

Left Out: 5183.317+/-2.567

χ^2/NDF : 6647.5/2

Right Out: 2748.372+/-0.792

χ^2/NDF : 2264563.8/17

Left In: 5416.513+/-2.932

χ^2/NDF : 24589.3/1

Left: 5284.517+/-1.931

χ^2/NDF : 34817.6/4

Right: 3018.883+/-0.599

χ^2/NDF : 3294667.2/33

In: 3562.245+/-0.875

χ^2/NDF : 1220781.4/17

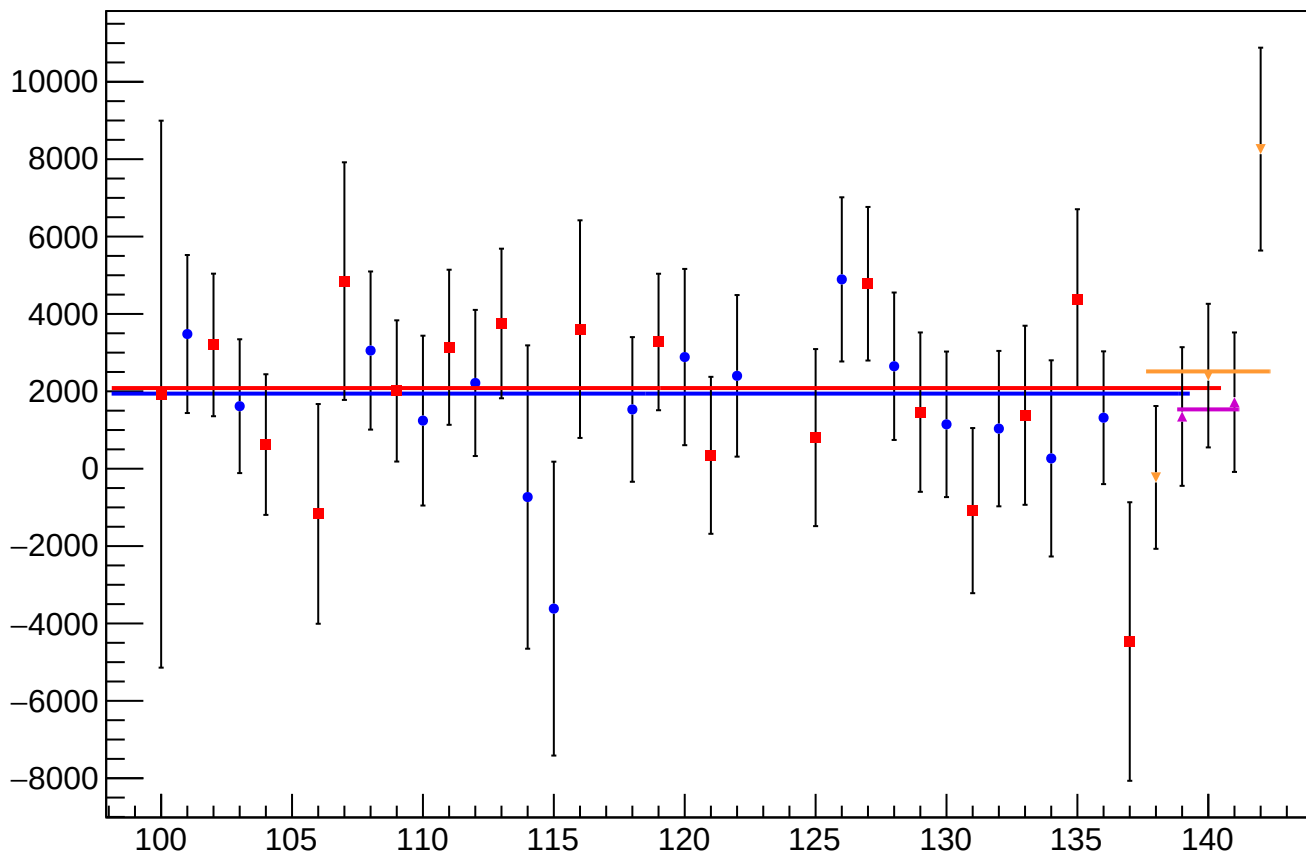
Out: 2959.919+/-0.757

χ^2/NDF : 3092651.8/20

All: 3217.767+/-0.572

χ^2/NDF : 4584668.0/38

cor_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1941.031+/-522.174 χ^2/NDF : 6.9/15

Left Out: 2514.430+/-1170.878 χ^2/NDF : 7.0/2

Right Out: 2084.166+/-519.587 χ^2/NDF : 14.5/17

Left In: 1533.008+/-1270.775 χ^2/NDF : 0.0/1

Left: 2063.805+/-861.089 χ^2/NDF : 7.4/4

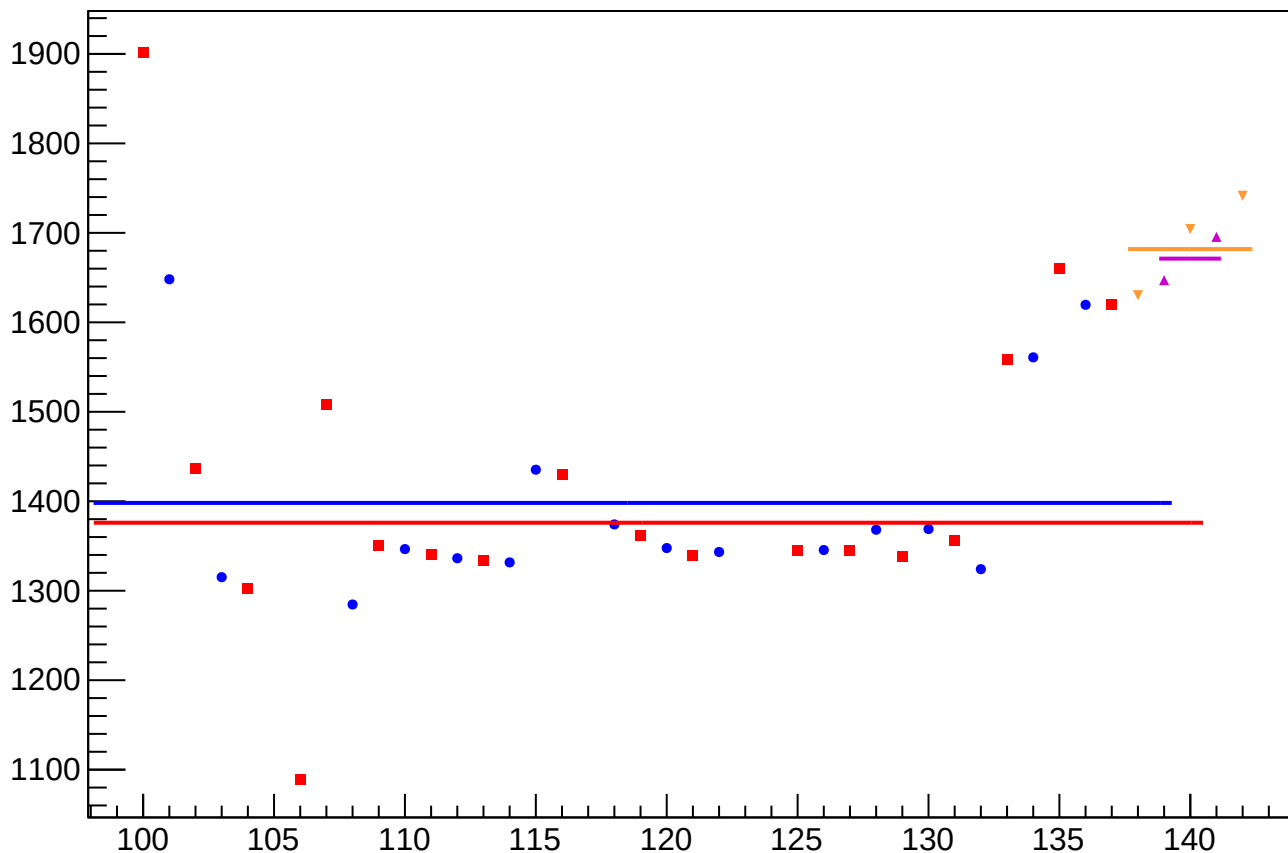
Right: 2012.954+/-368.315 χ^2/NDF : 21.4/33

In: 1882.090+/-482.988 χ^2/NDF : 7.0/17

Out: 2154.955+/-474.925 χ^2/NDF : 21.6/20

All: 2020.819+/-338.638 χ^2/NDF : 28.8/38

cor_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1398.161+/-0.369 χ^2/NDF : 93923.6/15

Left Out: 1681.893+/-0.828 χ^2/NDF : 2885.1/2

Right Out: 1376.021+/-0.363 χ^2/NDF : 114033.6/17

Left In: 1671.201+/-0.899 χ^2/NDF : 724.8/1

Left: 1676.984+/-0.609 χ^2/NDF : 3686.5/4

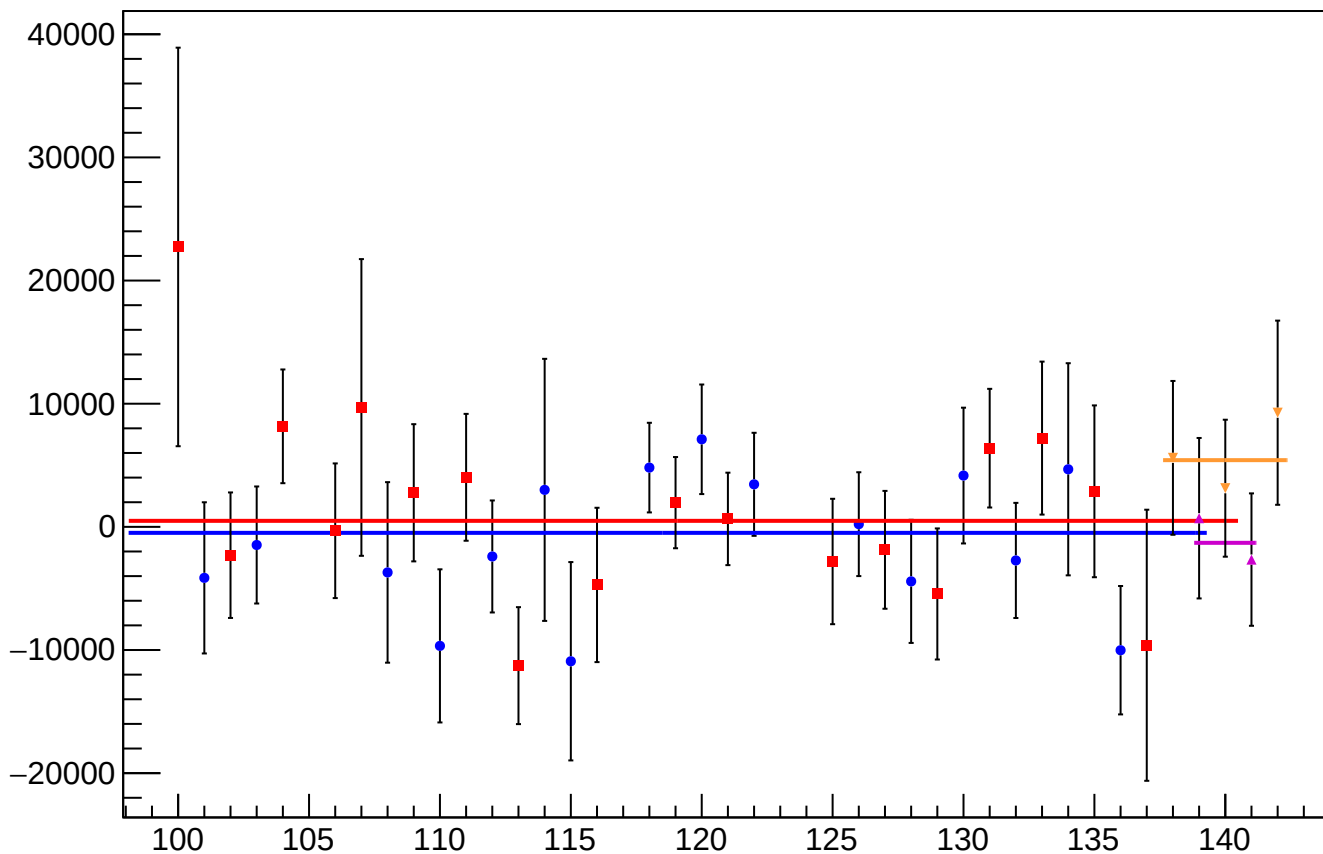
Right: 1386.888+/-0.259 χ^2/NDF : 209787.8/33

In: 1437.603+/-0.342 χ^2/NDF : 173641.5/17

Out: 1425.229+/-0.332 χ^2/NDF : 231446.8/20

All: 1431.243+/-0.238 χ^2/NDF : 405763.0/38

asym_usl_atl2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -486.563+/-1294.930 χ^2/NDF : 15.9/15

Left Out: 5416.667+/-3630.620 χ^2/NDF : 0.4/2

Right Out: 488.594+/-1261.315 χ^2/NDF : 18.7/17

Left In: -1296.442+/-4146.390 χ^2/NDF : 0.2/1

Left: 2503.375+/-2731.494 χ^2/NDF : 2.1/4

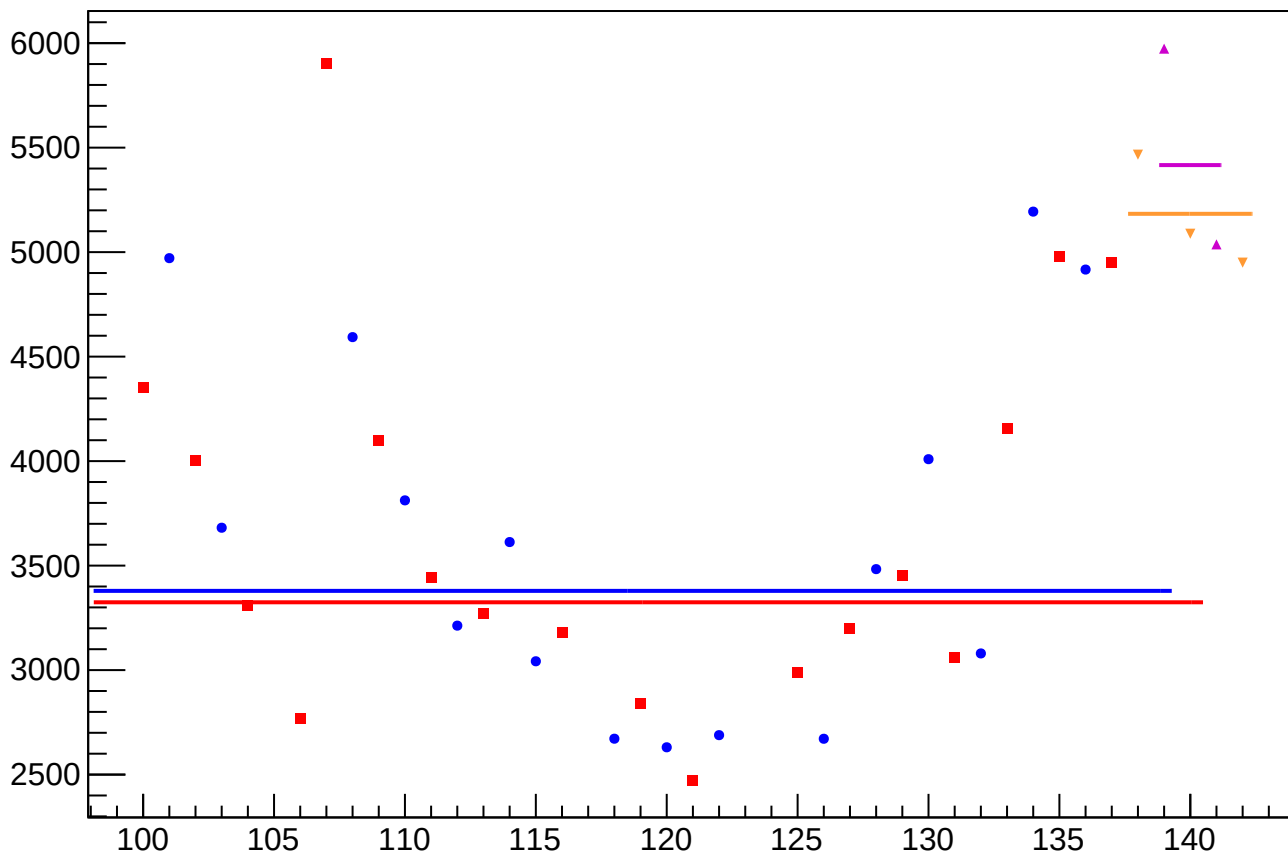
Right: 13.837+/-903.535 χ^2/NDF : 35.0/33

In: -558.533+/-1236.054 χ^2/NDF : 16.1/17

Out: 1019.327+/-1191.462 χ^2/NDF : 20.8/20

All: 259.372+/-857.822 χ^2/NDF : 37.8/38

asym_usl_atl2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 3379.110+/-0.916 χ^2/NDF : 755339.9/15

Left Out: 5183.325+/-2.567 χ^2/NDF : 6647.1/2

Right Out: 3324.449+/-0.892 χ^2/NDF : 543813.3/17

Left In: 5416.502+/-2.932 χ^2/NDF : 24589.9/1

Left: 5284.517+/-1.931 χ^2/NDF : 34817.2/4

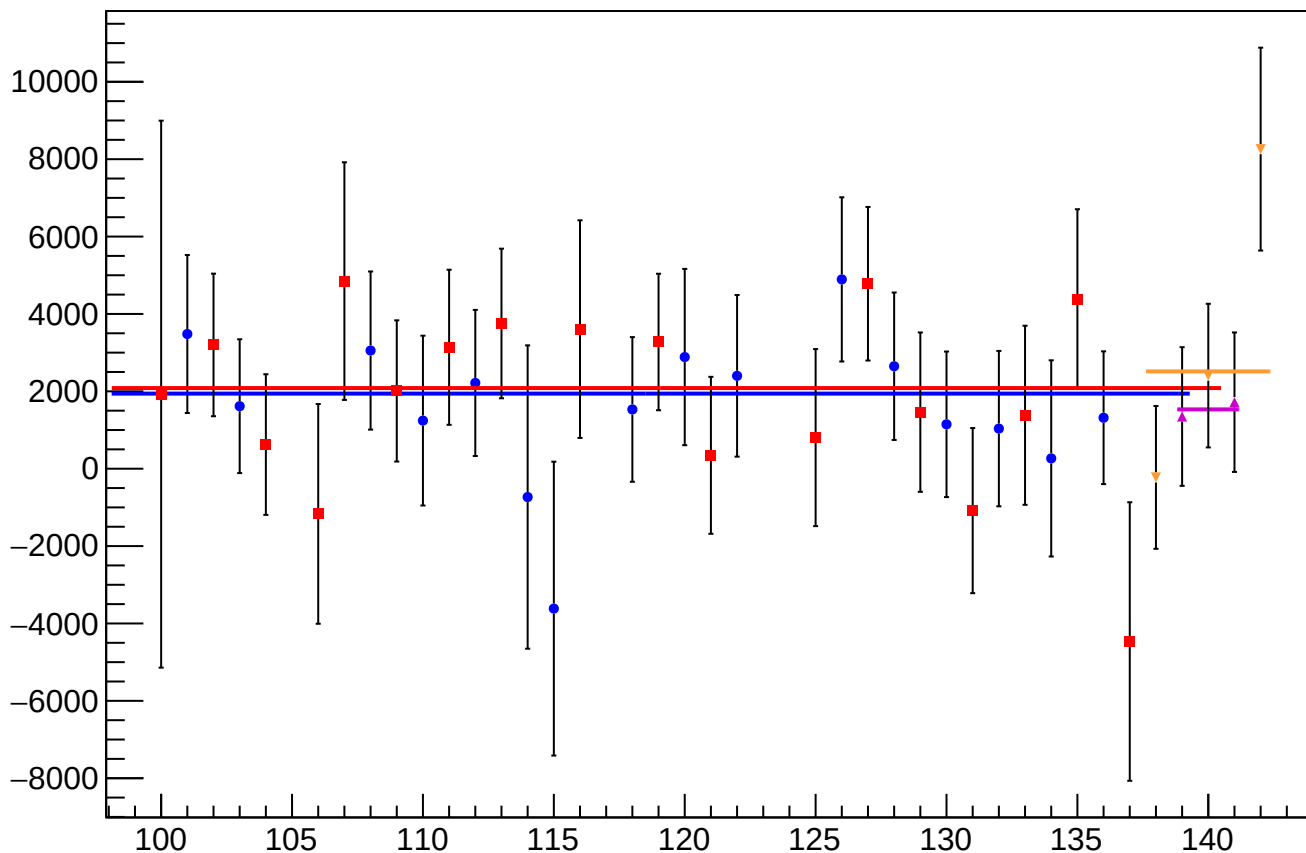
Right: 3351.061+/-0.639 χ^2/NDF : 1300981.9/33

In: 3560.165+/-0.874 χ^2/NDF : 1219897.9/17

Out: 3524.642+/-0.842 χ^2/NDF : 1018283.8/20

All: 3541.751+/-0.607 χ^2/NDF : 2239037.9/38

eigen_cor_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1941.031+/-522.174 χ^2/NDF : 6.9/15

Left Out: 2514.430+/-1170.878 χ^2/NDF : 7.0/2

Right Out: 2084.166+/-519.587 χ^2/NDF : 14.5/17

Left In: 1533.008+/-1270.775 χ^2/NDF : 0.0/1

Left: 2063.805+/-861.089 χ^2/NDF : 7.4/4

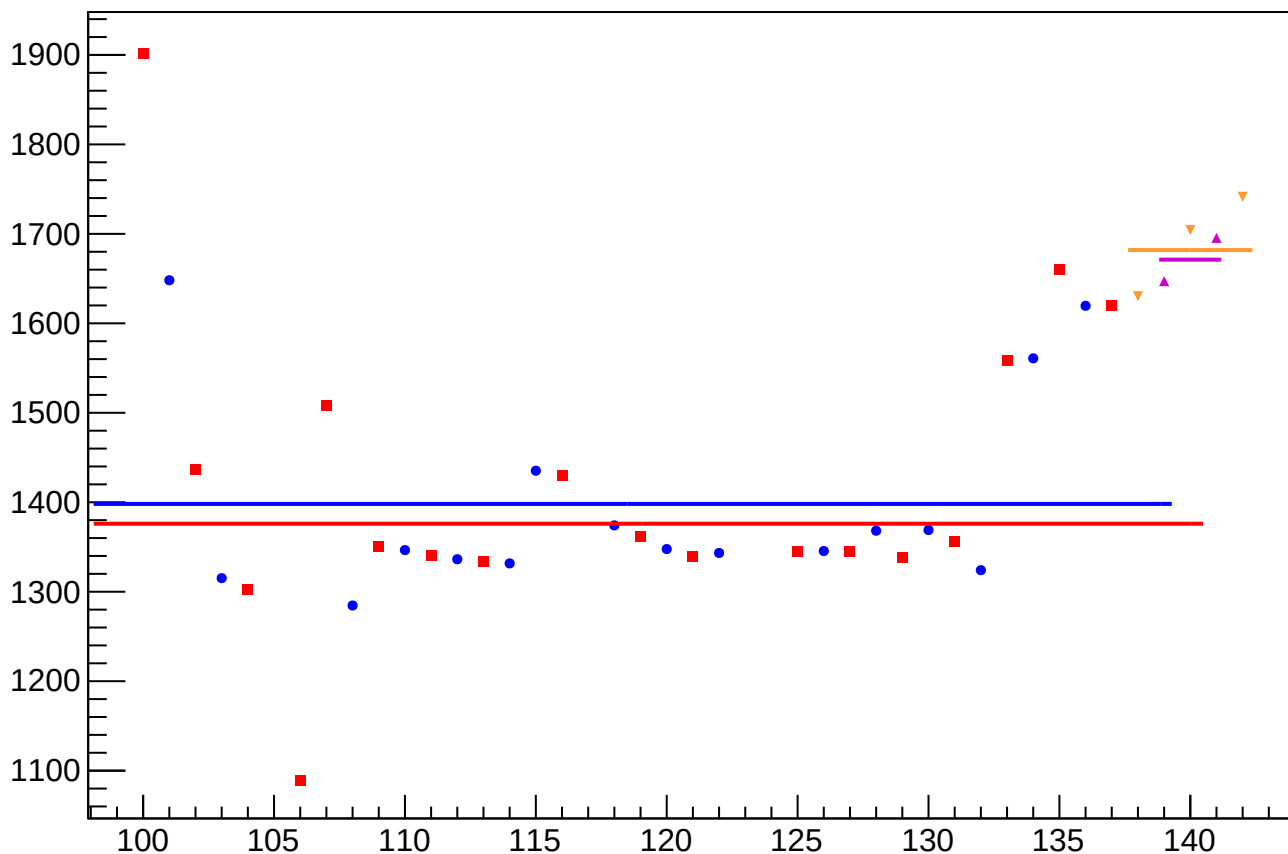
Right: 2012.954+/-368.315 χ^2/NDF : 21.4/33

In: 1882.090+/-482.988 χ^2/NDF : 7.0/17

Out: 2154.955+/-474.925 χ^2/NDF : 21.6/20

All: 2020.819+/-338.638 χ^2/NDF : 28.8/38

eigen_cor_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1398.161+/-0.369 χ^2/NDF : 93923.6/15

Left Out: 1681.893+/-0.828 χ^2/NDF : 2885.1/2

Right Out: 1376.021+/-0.363 χ^2/NDF : 114033.6/17

Left In: 1671.201+/-0.899 χ^2/NDF : 724.8/1

Left: 1676.984+/-0.609 χ^2/NDF : 3686.5/4

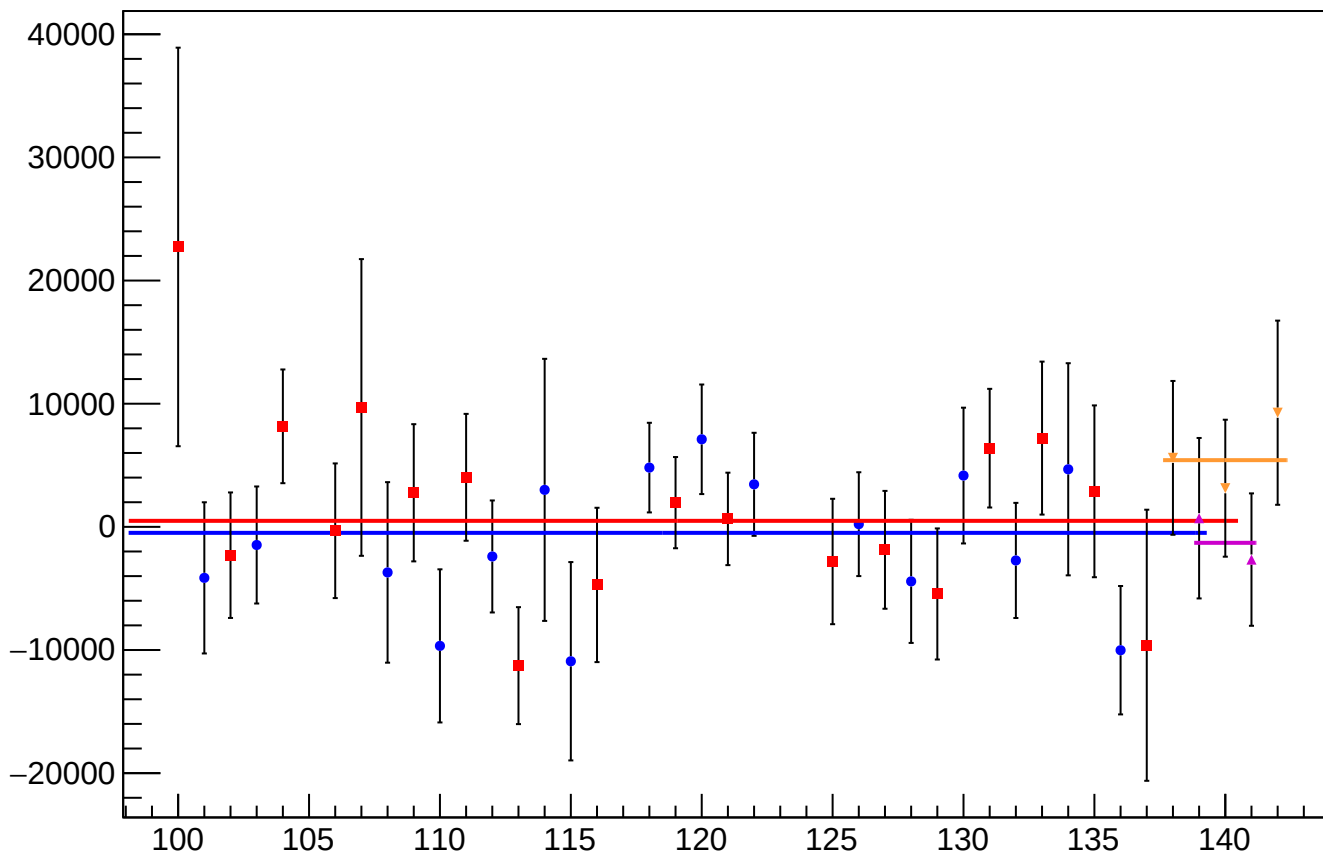
Right: 1386.888+/-0.259 χ^2/NDF : 209787.8/33

In: 1437.603+/-0.342 χ^2/NDF : 173641.5/17

Out: 1425.229+/-0.332 χ^2/NDF : 231446.8/20

All: 1431.243+/-0.238 χ^2/NDF : 405763.0/38

asym_usl_atl2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -486.563+/-1294.930 χ^2/NDF : 15.9/15

Left Out: 5416.667+/-3630.620 χ^2/NDF : 0.4/2

Right Out: 488.594+/-1261.315 χ^2/NDF : 18.7/17

Left In: -1296.442+/-4146.390 χ^2/NDF : 0.2/1

Left: 2503.375+/-2731.494 χ^2/NDF : 2.1/4

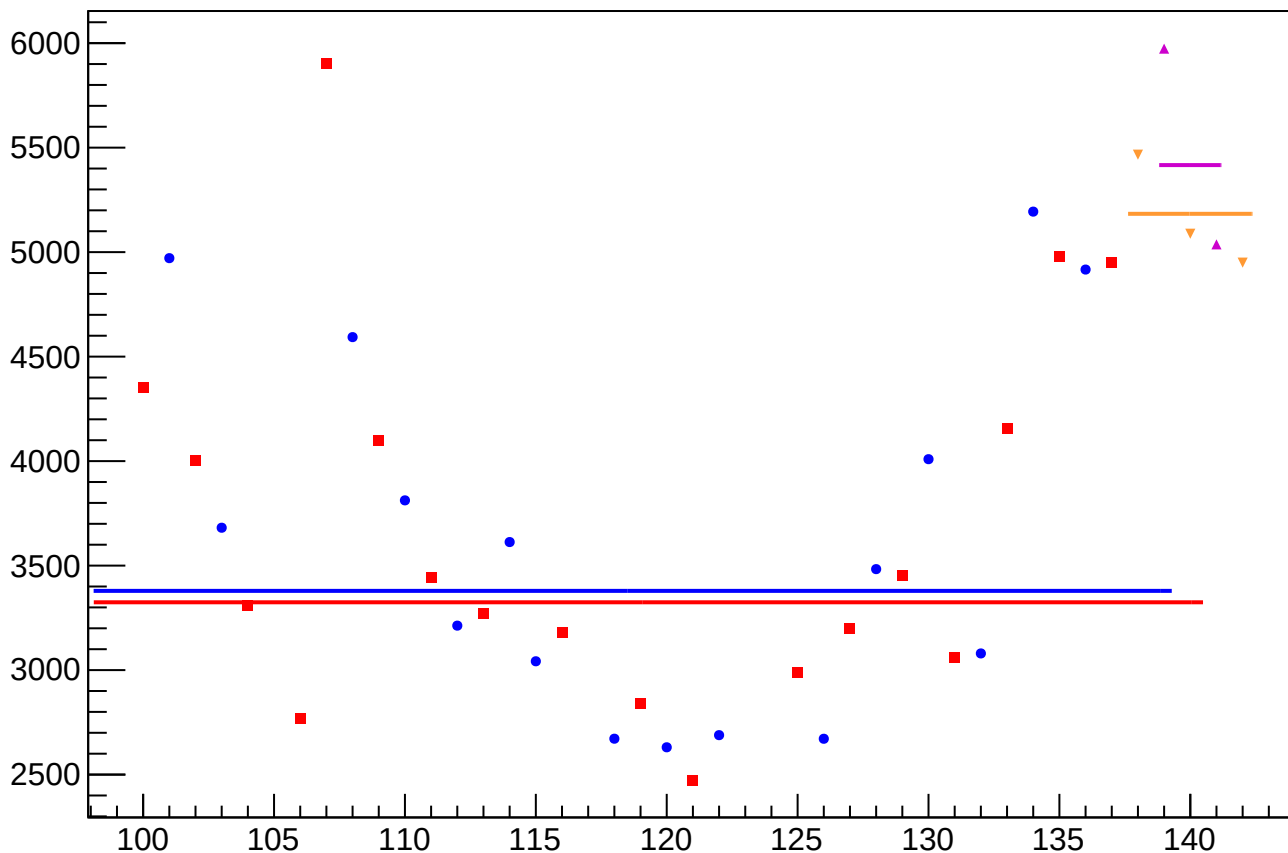
Right: 13.837+/-903.535 χ^2/NDF : 35.0/33

In: -558.533+/-1236.054 χ^2/NDF : 16.1/17

Out: 1019.327+/-1191.462 χ^2/NDF : 20.8/20

All: 259.372+/-857.822 χ^2/NDF : 37.8/38

asym_usl_atl2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3379.110+/-0.916 χ^2/NDF : 755339.9/15

Left Out: 5183.325+/-2.567 χ^2/NDF : 6647.1/2

Right Out: 3324.449+/-0.892 χ^2/NDF : 543813.3/17

Left In: 5416.502+/-2.932 χ^2/NDF : 24589.9/1

Left: 5284.517+/-1.931 χ^2/NDF : 34817.2/4

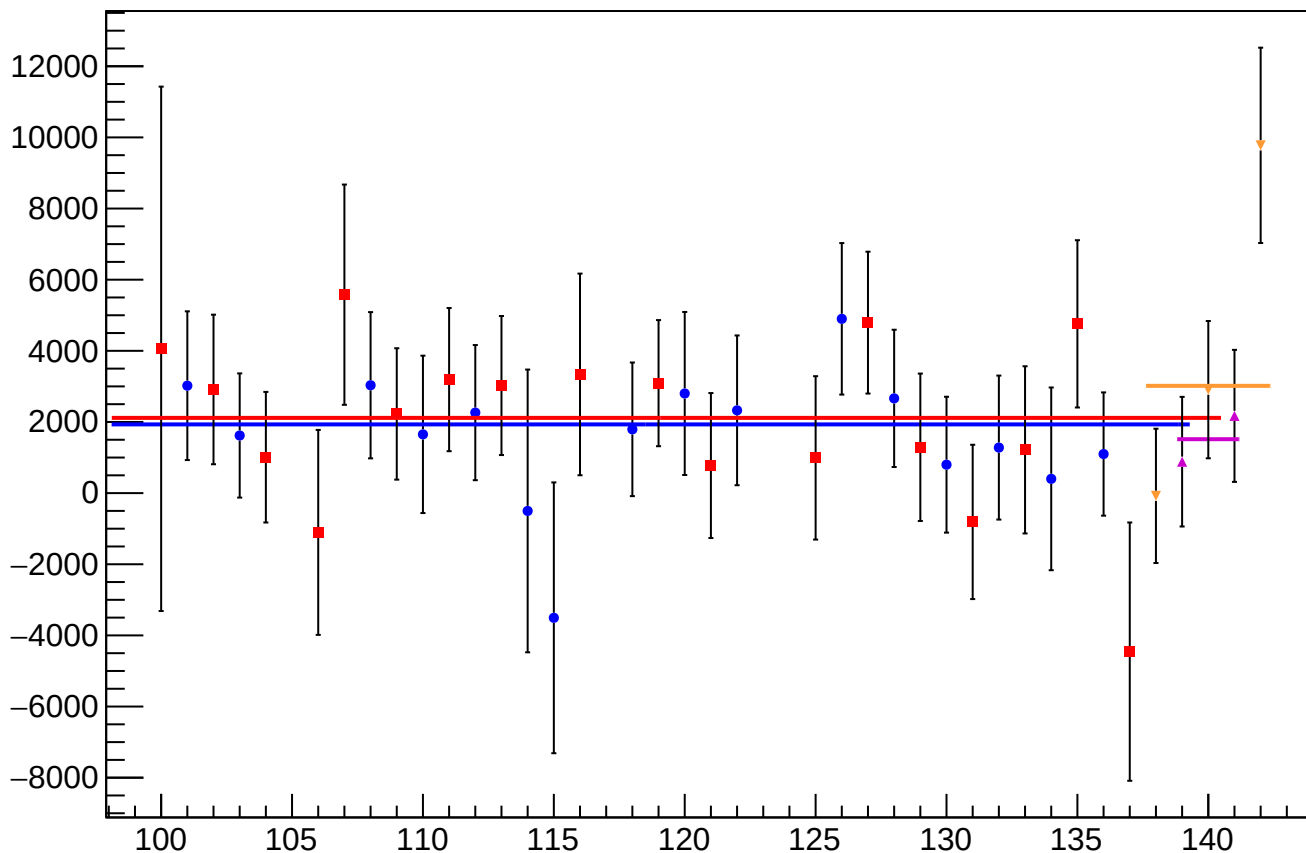
Right: 3351.061+/-0.639 χ^2/NDF : 1300981.9/33

In: 3560.165+/-0.874 χ^2/NDF : 1219897.9/17

Out: 3524.642+/-0.842 χ^2/NDF : 1018283.8/20

All: 3541.751+/-0.607 χ^2/NDF : 2239037.9/38

dit_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1931.537 $\pm$ 527.135 χ^2 /NDF: 6.4/15

Left Out: 3015.825 $\pm$ 1211.172 χ^2 /NDF:8.8/2

Right Out: 2115.195 $\pm$ 528.802 χ^2 /NDF: 13.2/17

Left In: 1515.730 $\pm$ 1300.195 χ^2 /NDF:0.2/1

Left: 2318.886 $\pm$ 886.230 χ^2 /NDF: 9.7/4

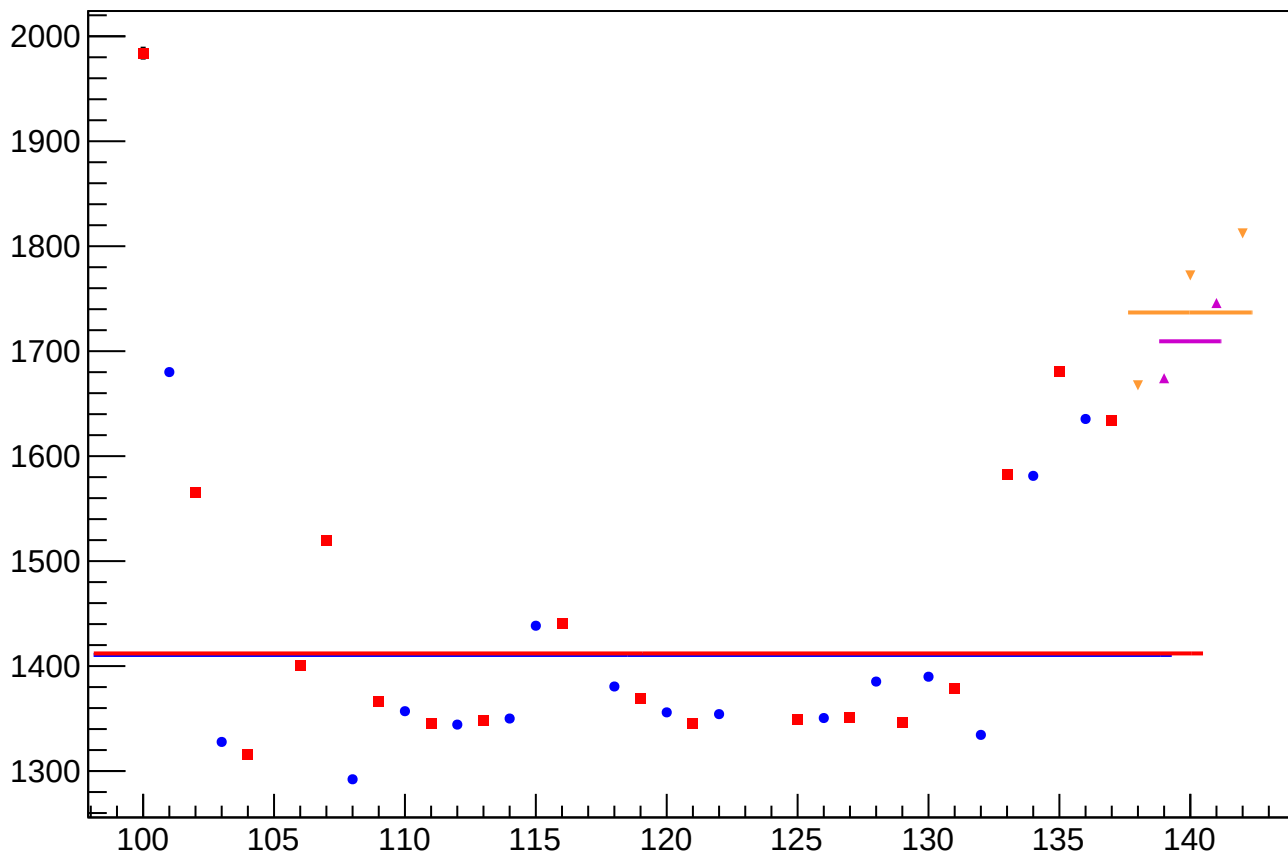
Right: 2023.076 $\pm$ 373.329 χ^2 /NDF: 19.6/33

In: 1872.838 $\pm$ 488.513 χ^2 /NDF:6.7/17

Out: 2259.389 $\pm$ 484.625 χ^2 /NDF:22.4/20

All: 2067.658 $\pm$ 344.048 χ^2 /NDF: 29.4/38

dit_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1410.595 ± 0.373 $\chi^2/\text{NDF}: 99150.0/15$

Left Out: 1736.865 ± 0.856 $\chi^2/\text{NDF}: 4878.1/2$

Right Out: 1412.048 ± 0.373 $\chi^2/\text{NDF}: 89704.5/17$

Left In: 1709.409 ± 0.919 $\chi^2/\text{NDF}: 1517.7/1$

Left: 1724.109 ± 0.627 $\chi^2/\text{NDF}: 6873.3/4$

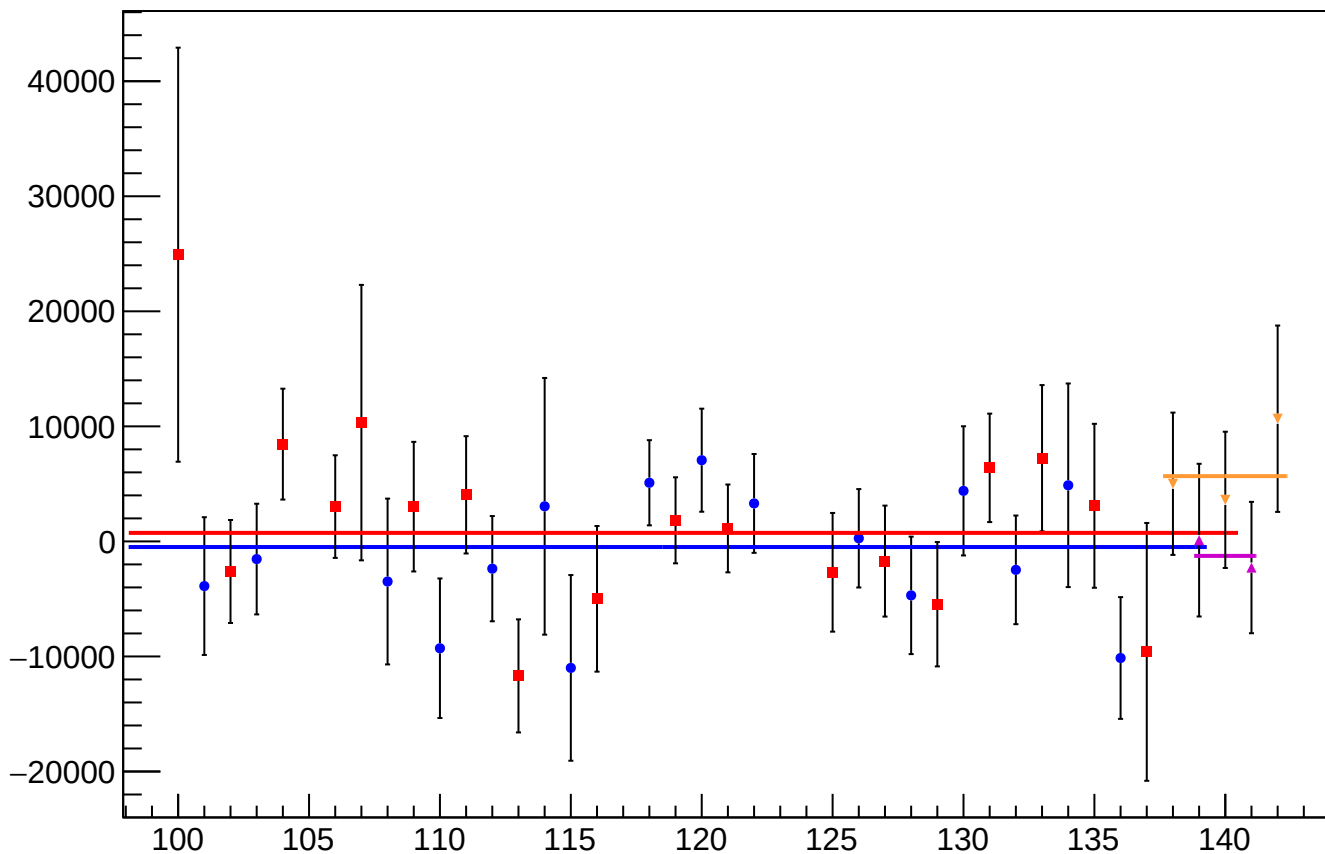
Right: 1411.321 ± 0.264 $\chi^2/\text{NDF}: 188862.1/33$

In: 1452.778 ± 0.345 $\chi^2/\text{NDF}: 191391.8/17$

Out: 1463.819 ± 0.342 $\chi^2/\text{NDF}: 215501.0/20$

All: 1458.355 ± 0.243 $\chi^2/\text{NDF}: 407408.8/38$

asym_usl_atl2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -489.402 $\pm$ 1308.692 χ^2 /NDF: 15.8/15

Left Out: 5672.662 $\pm$ 3781.982 χ^2 /NDF:0.5/2

Right Out: 740.592 $\pm$ 1247.947 χ^2 /NDF: 19.2/17

Left In: -1259.386 $\pm$ 4327.843 χ^2 /NDF:0.1/1

Left: 2671.120 $\pm$ 2847.823 χ^2 /NDF: 2.0/4

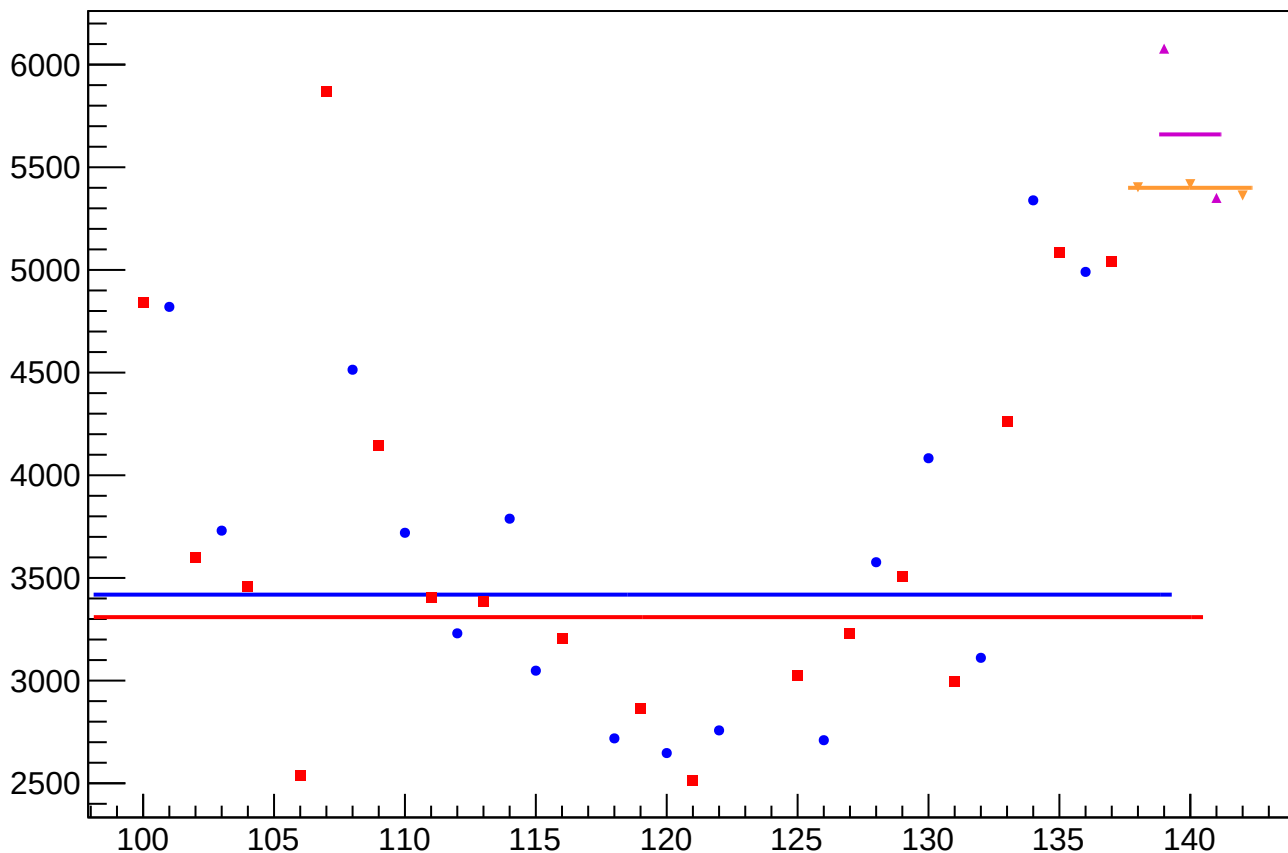
Right: 154.802 $\pm$ 903.143 χ^2 /NDF: 35.5/33

In: -553.910 $\pm$ 1252.673 χ^2 /NDF:15.9/17

Out: 1224.873 $\pm$ 1185.097 χ^2 /NDF:21.2/20

All: 384.752 $\pm$ 860.889 χ^2 /NDF: 38.2/38

asym_usl_atl2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 3418.701+/-0.925 χ^2/NDF : 721215.3/15

Left Out: 5399.940+/-2.674 χ^2/NDF : 60.6/2

Right Out: 3309.112+/-0.882 χ^2/NDF : 571940.6/17

Left In: 5659.971+/-3.060 χ^2/NDF : 13793.1/1

Left: 5512.532+/-2.014 χ^2/NDF : 17947.5/4

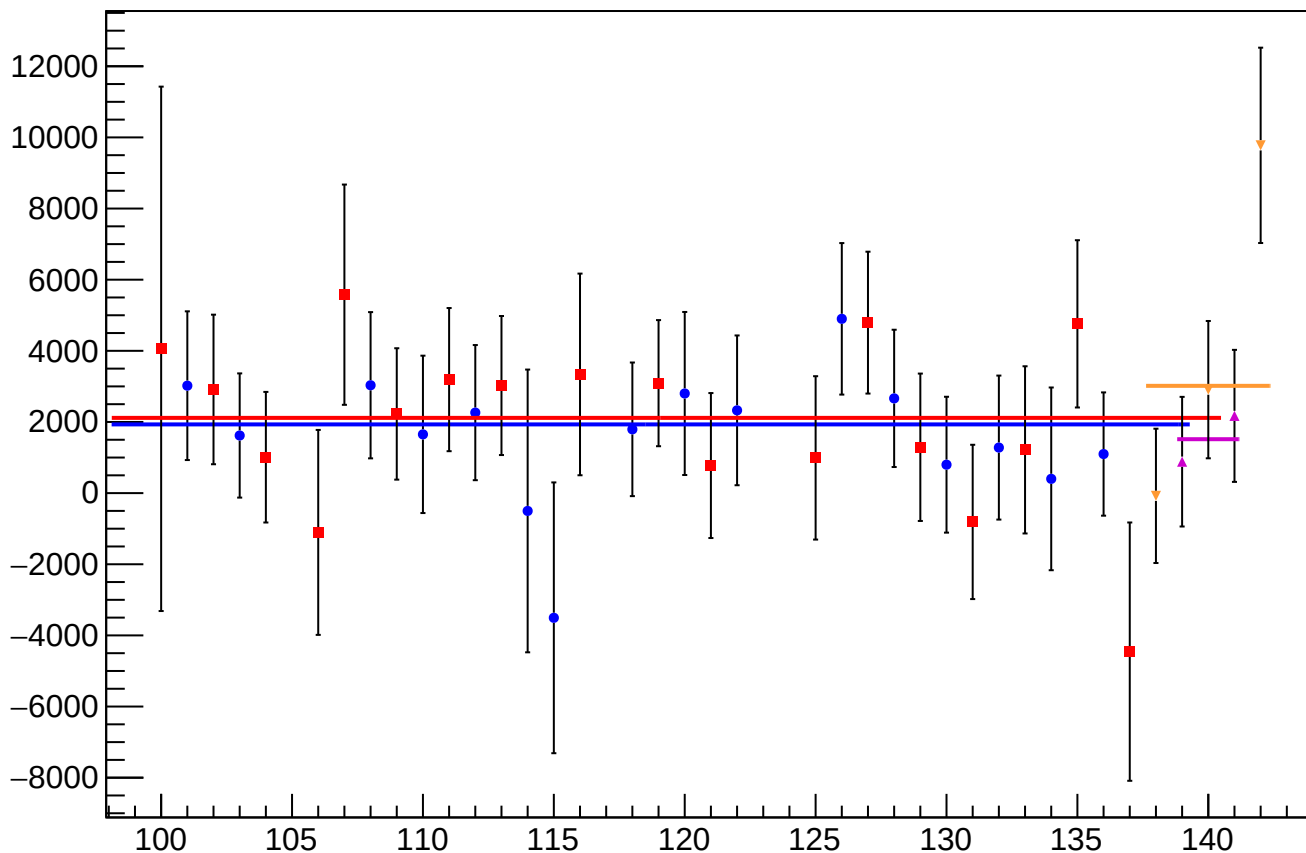
Right: 3361.304+/-0.639 χ^2/NDF : 1300501.2/33

In: 3606.471+/-0.886 χ^2/NDF : 1226454.4/17

Out: 3514.411+/-0.838 χ^2/NDF : 1123243.5/20

All: 3557.891+/-0.609 χ^2/NDF : 2355397.9/38

eigen_dit_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1931.538 $\pm$ 527.135 χ^2 /NDF: 6.4/15

Left Out: 3015.837 $\pm$ 1211.173 χ^2 /NDF:8.8/2

Right Out: 2115.195 $\pm$ 528.802 χ^2 /NDF: 13.2/17

Left In: 1515.729 $\pm$ 1300.196 χ^2 /NDF:0.2/1

Left: 2318.892 $\pm$ 886.231 χ^2 /NDF: 9.7/4

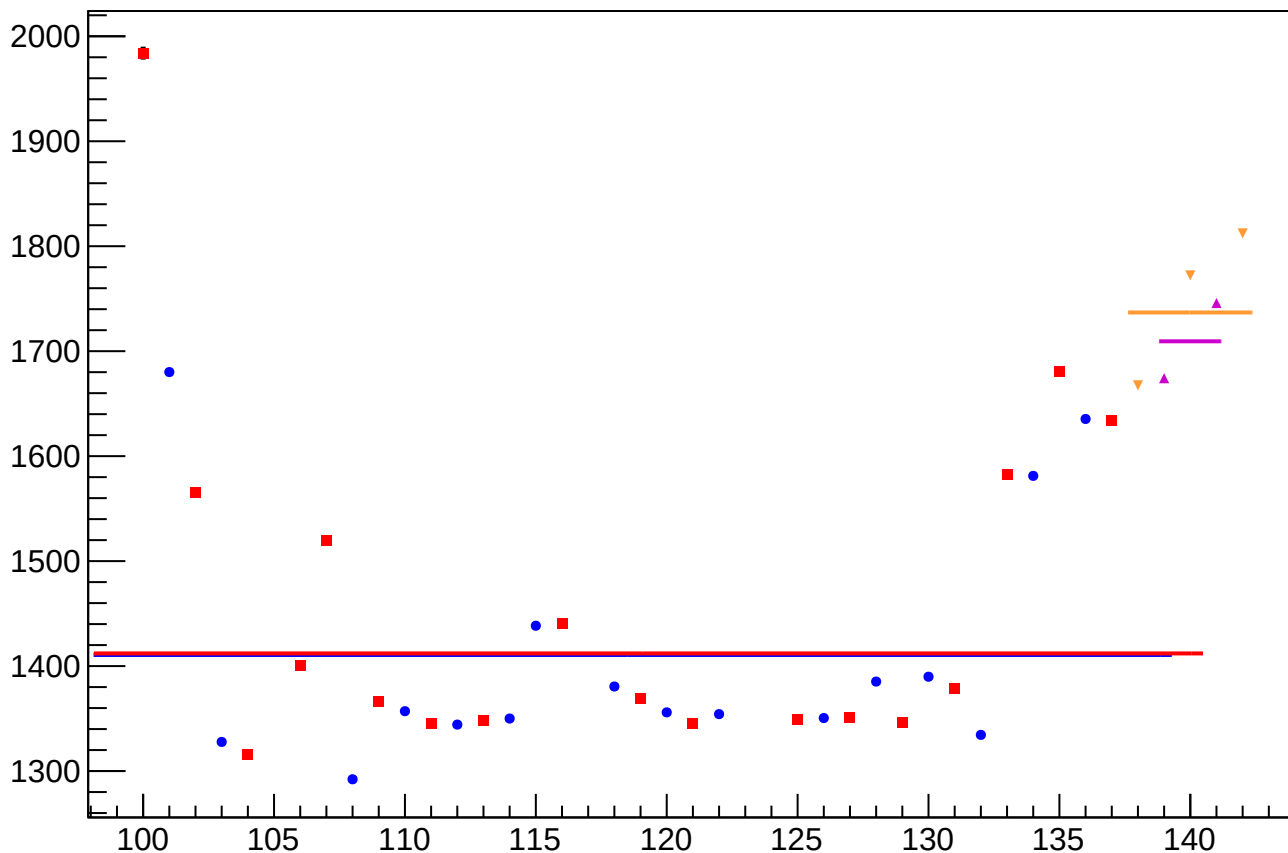
Right: 2023.076 $\pm$ 373.329 χ^2 /NDF: 19.6/33

In: 1872.839 $\pm$ 488.513 χ^2 /NDF:6.7/17

Out: 2259.391 $\pm$ 484.626 χ^2 /NDF:22.4/20

All: 2067.659 $\pm$ 344.048 χ^2 /NDF: 29.4/38

eigen_dit_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1410.595 $\pm$ 0.373 χ^2/NDF : 99150.0/15

Left Out: 1736.866 $\pm$ 0.856 χ^2/NDF : 4878.3/2

Right Out: 1412.048 $\pm$ 0.373 χ^2/NDF : 89704.6/17

Left In: 1709.411 $\pm$ 0.919 χ^2/NDF : 1517.7/1

Left: 1724.110 $\pm$ 0.627 χ^2/NDF : 6873.5/4

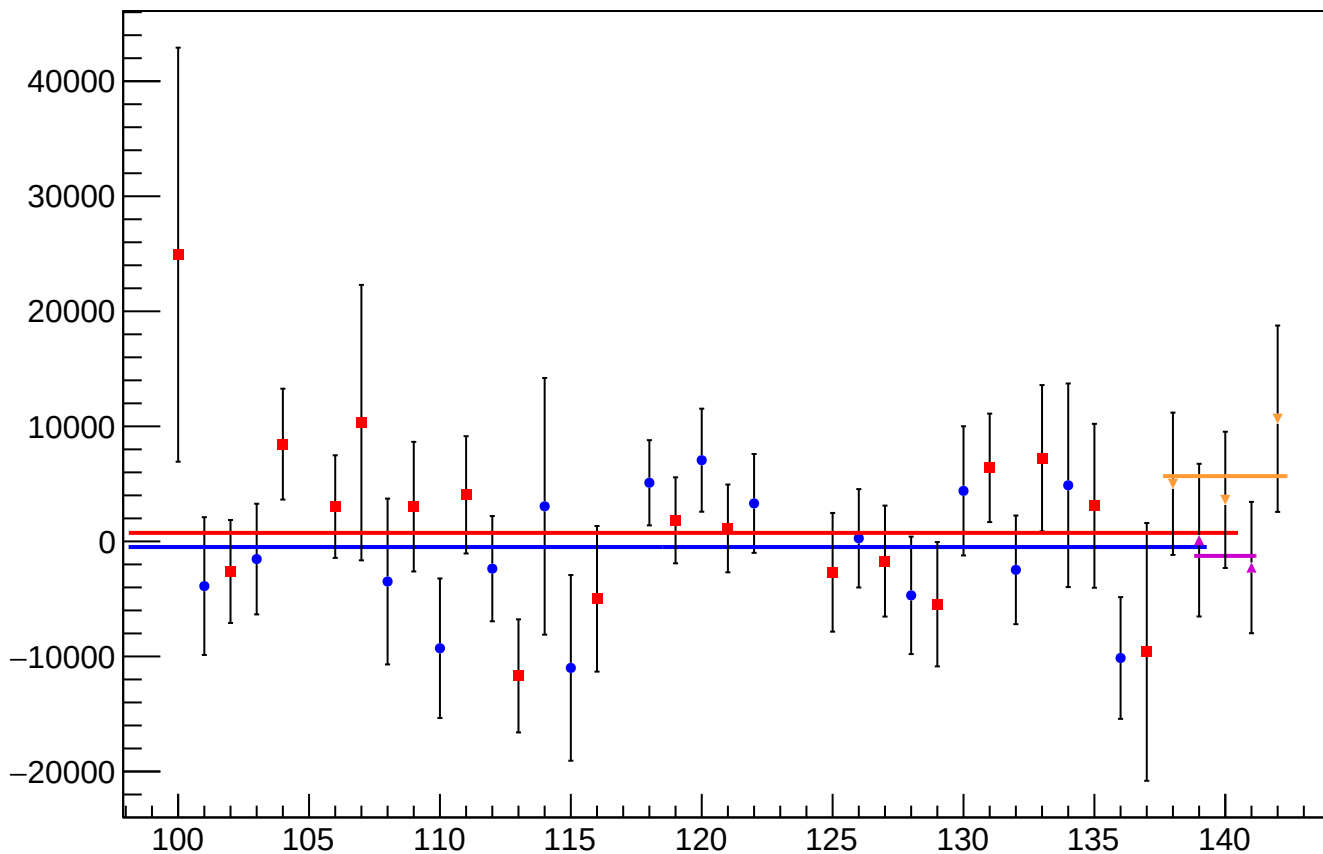
Right: 1411.321 $\pm$ 0.264 χ^2/NDF : 188862.2/33

In: 1452.779 $\pm$ 0.345 χ^2/NDF : 191392.5/17

Out: 1463.819 $\pm$ 0.342 χ^2/NDF : 215502.1/20

All: 1458.355 $\pm$ 0.243 χ^2/NDF : 407410.6/38

asym_usl_atl2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -489.395+/-1308.688 χ^2/NDF : 15.8/15

Left Out: 5672.683+/-3781.992 χ^2/NDF : 0.5/2

Right Out: 740.594+/-1247.944 χ^2/NDF : 19.2/17

Left In: -1259.386+/-4327.853 χ^2/NDF : 0.1/1

Left: 2671.131+/-2847.830 χ^2/NDF : 2.0/4

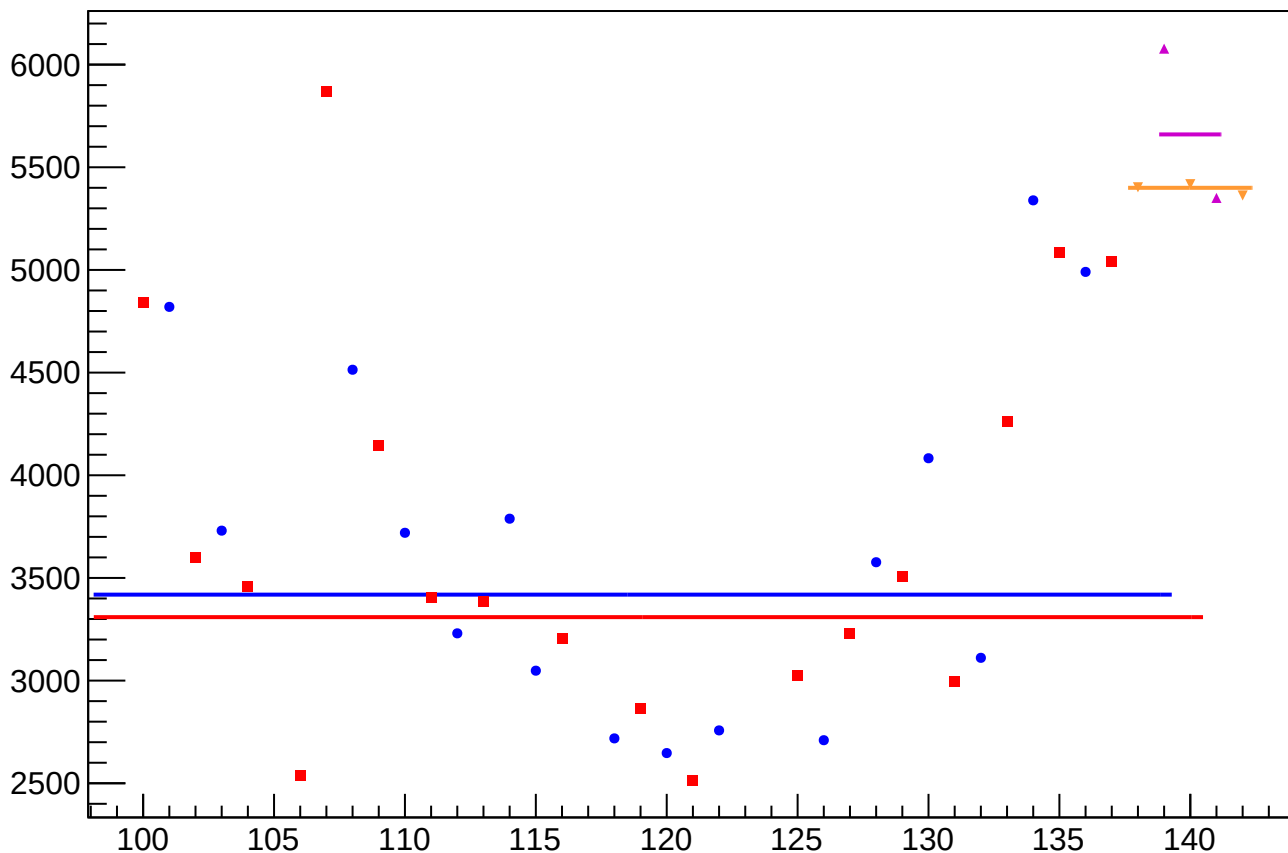
Right: 154.807+/-903.141 χ^2/NDF : 35.5/33

In: -553.903+/-1252.669 χ^2/NDF : 15.9/17

Out: 1224.873+/-1185.094 χ^2/NDF : 21.2/20

All: 384.755+/-860.886 χ^2/NDF : 38.2/38

asym_usl_atl2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3418.690+/-0.925 χ^2/NDF : 721223.9/15

Left Out: 5399.954+/-2.674 χ^2/NDF : 60.6/2

Right Out: 3309.102+/-0.882 χ^2/NDF : 571944.5/17

Left In: 5659.983+/-3.060 χ^2/NDF : 13793.5/1

Left: 5512.545+/-2.014 χ^2/NDF : 17947.8/4

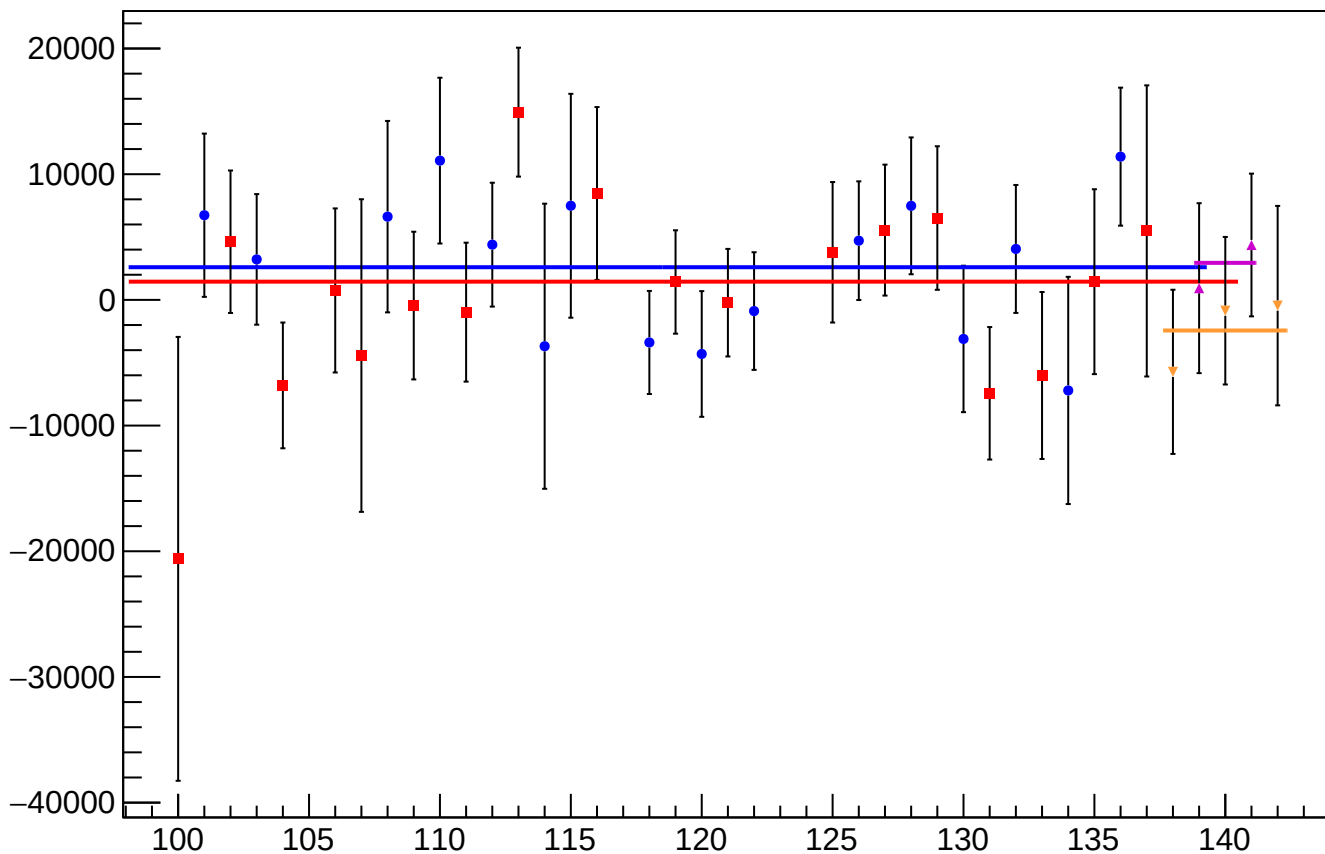
Right: 3361.294+/-0.639 χ^2/NDF : 1300513.6/33

In: 3606.460+/-0.886 χ^2/NDF : 1226472.0/17

Out: 3514.402+/-0.838 χ^2/NDF : 1123257.7/20

All: 3557.881+/-0.609 χ^2/NDF : 2355429.6/38

asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 2599.622 $\pm$ 1414.499 χ^2 /NDF: 13.5/15

Left Out: -2434.984 $\pm$ 3824.806 χ^2 /NDF:0.4/2

Right Out: 1450.418 $\pm$ 1382.818 χ^2 /NDF: 19.0/17

Left In: 2947.290 $\pm$ 4347.803 χ^2 /NDF:0.2/1

Left: -86.875 $\pm$ 2871.746 χ^2 /NDF: 1.4/4

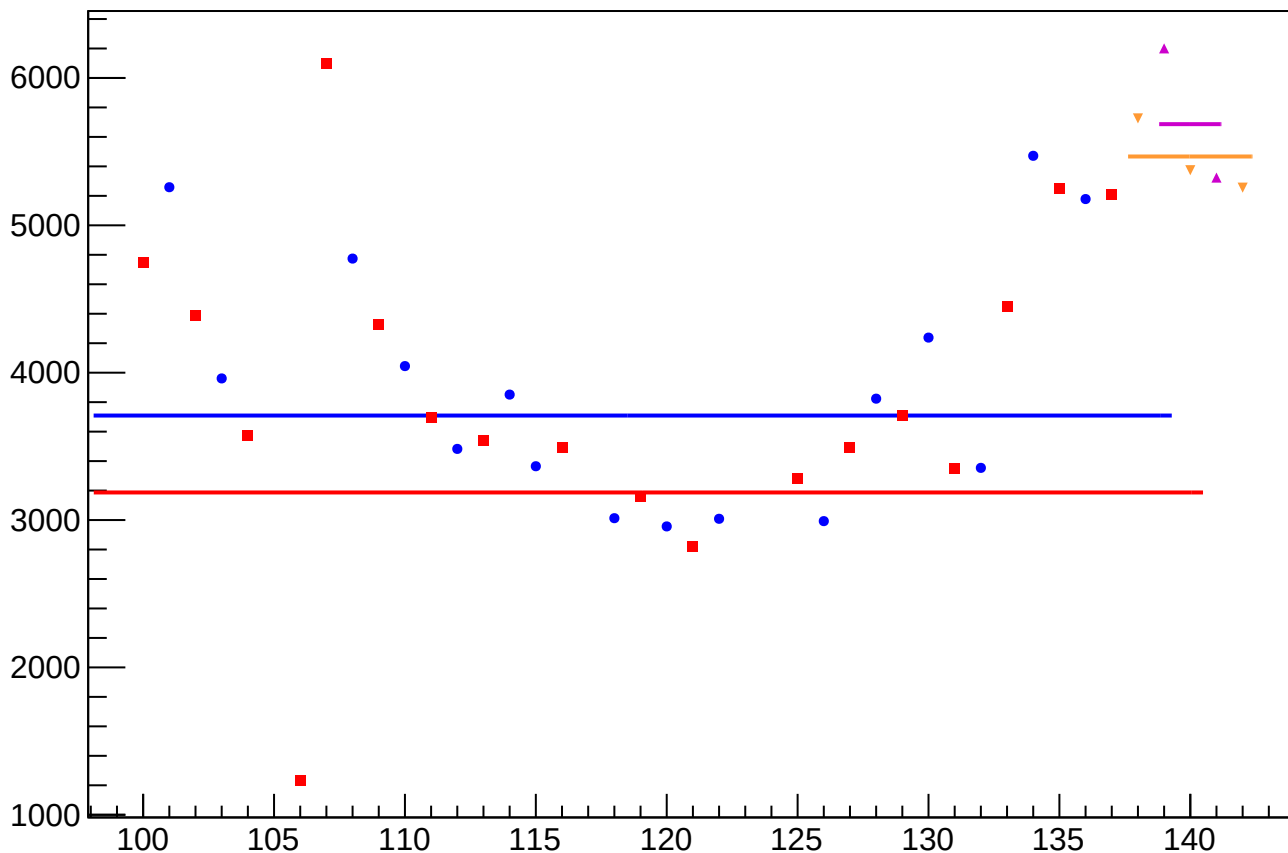
Right: 2012.006 $\pm$ 988.811 χ^2 /NDF: 32.9/33

In: 2632.898 $\pm$ 1345.103 χ^2 /NDF:13.6/17

Out: 1001.264 $\pm$ 1300.437 χ^2 /NDF:20.3/20

All: 1789.541 $\pm$ 934.940 χ^2 /NDF: 34.7/38

asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 3709.155+/-1.000 χ^2/NDF : 610637.3/15

Left Out: 5467.085+/-2.705 χ^2/NDF : 5058.0/2

Right Out: 3187.191+/-0.896 χ^2/NDF : 1610818.1/17

Left In: 5686.617+/-3.074 χ^2/NDF : 19725.5/1

Left: 5562.860+/-2.031 χ^2/NDF : 27658.0/4

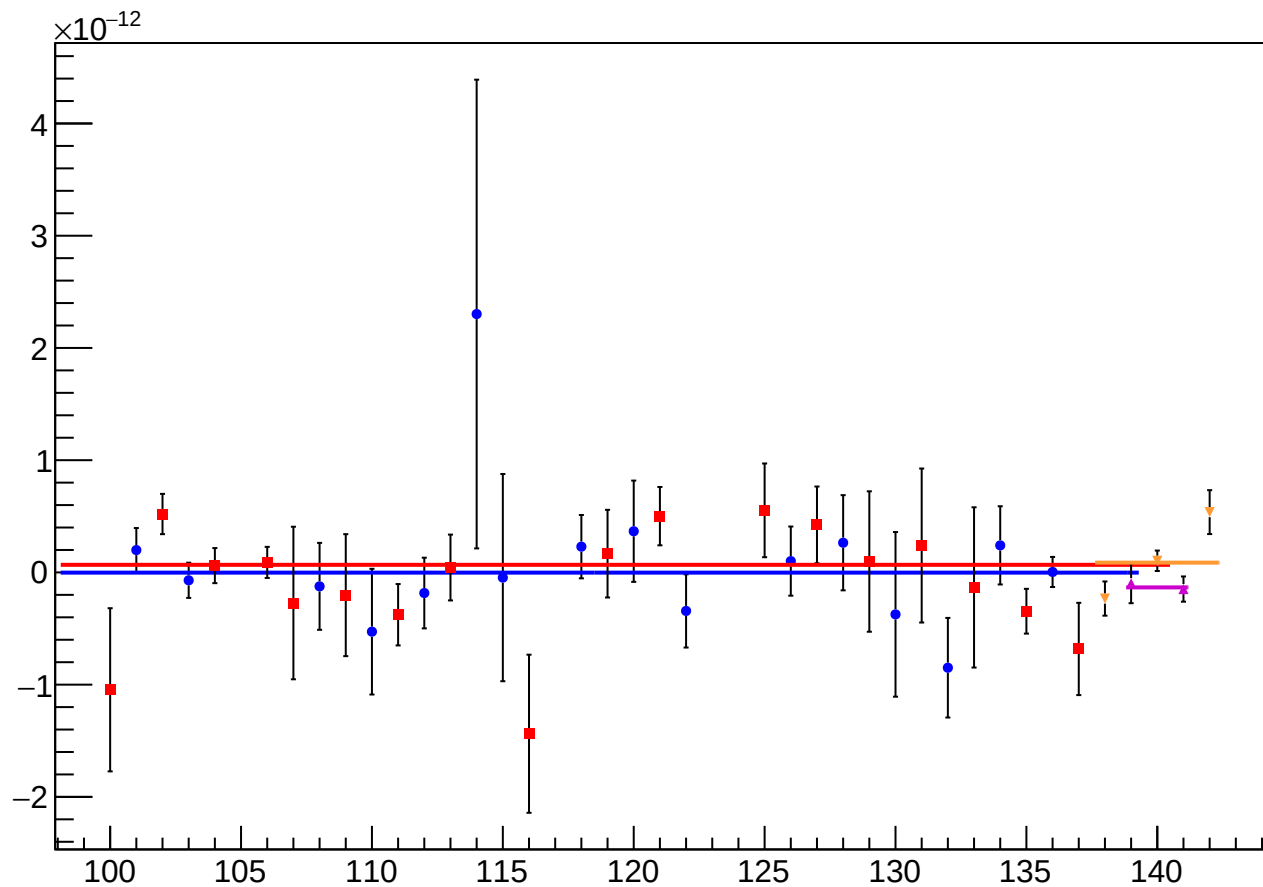
Right: 3419.452+/-0.667 χ^2/NDF : 2372609.3/33

In: 3898.423+/-0.951 χ^2/NDF : 1004484.8/17

Out: 3412.478+/-0.850 χ^2/NDF : 2256280.9/20

All: 3628.299+/-0.634 χ^2/NDF : 3405866.8/38

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 11.1/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 9.7/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 29.5/17

Left In: -0.000 ± 0.000 χ^2/NDF : 0.1/1

Left: 0.000 ± 0.000 χ^2/NDF : 13.2/4

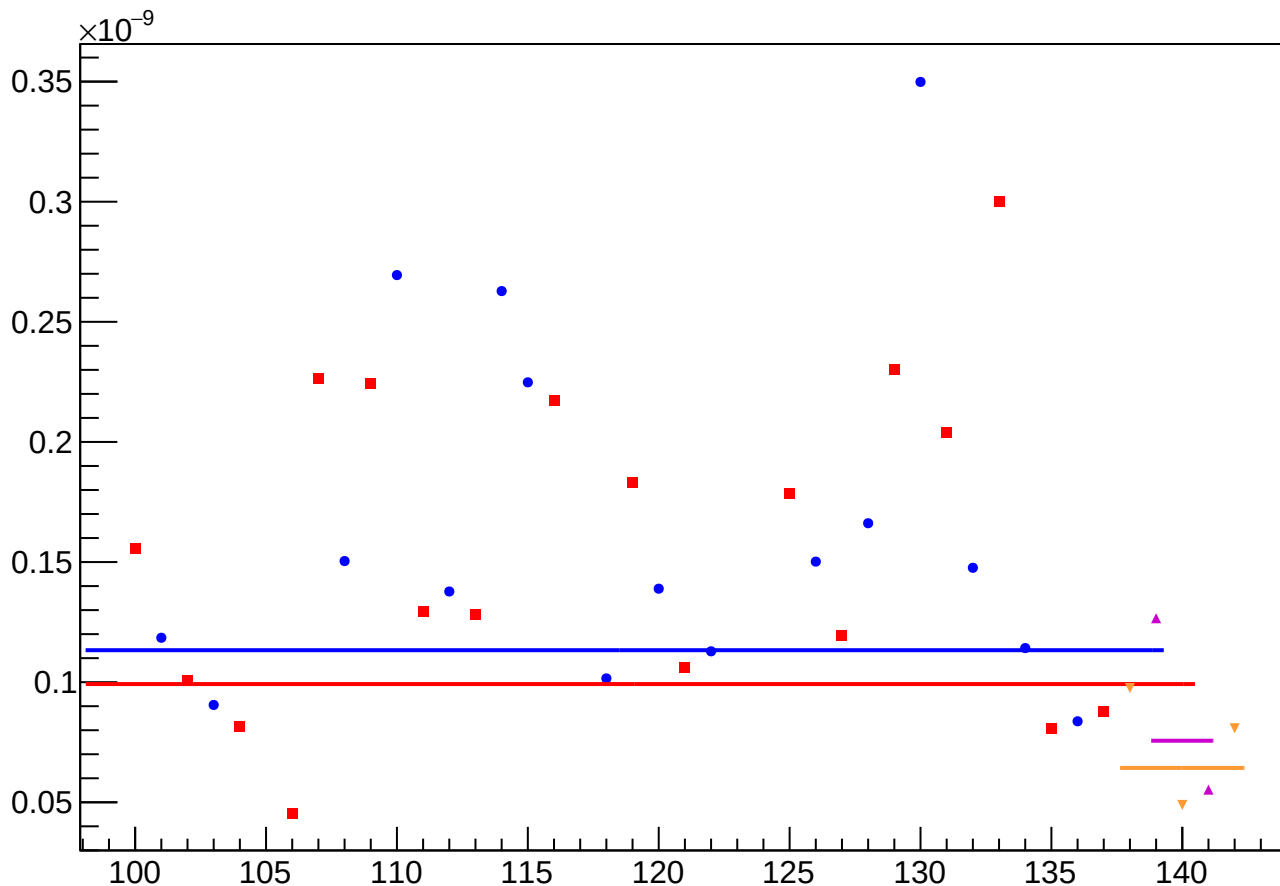
Right: 0.000 ± 0.000 χ^2/NDF : 41.1/33

In: -0.000 ± 0.000 χ^2/NDF : 12.4/17

Out: 0.000 ± 0.000 χ^2/NDF : 39.3/20

All: 0.000 ± 0.000 χ^2/NDF : 54.5/38

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 655766.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :166773.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1100854.2/17

Left In: 0.000+/-0.000 χ^2/NDF :230009.2/1

Left: 0.000+/-0.000 χ^2/NDF : 414701.2/4

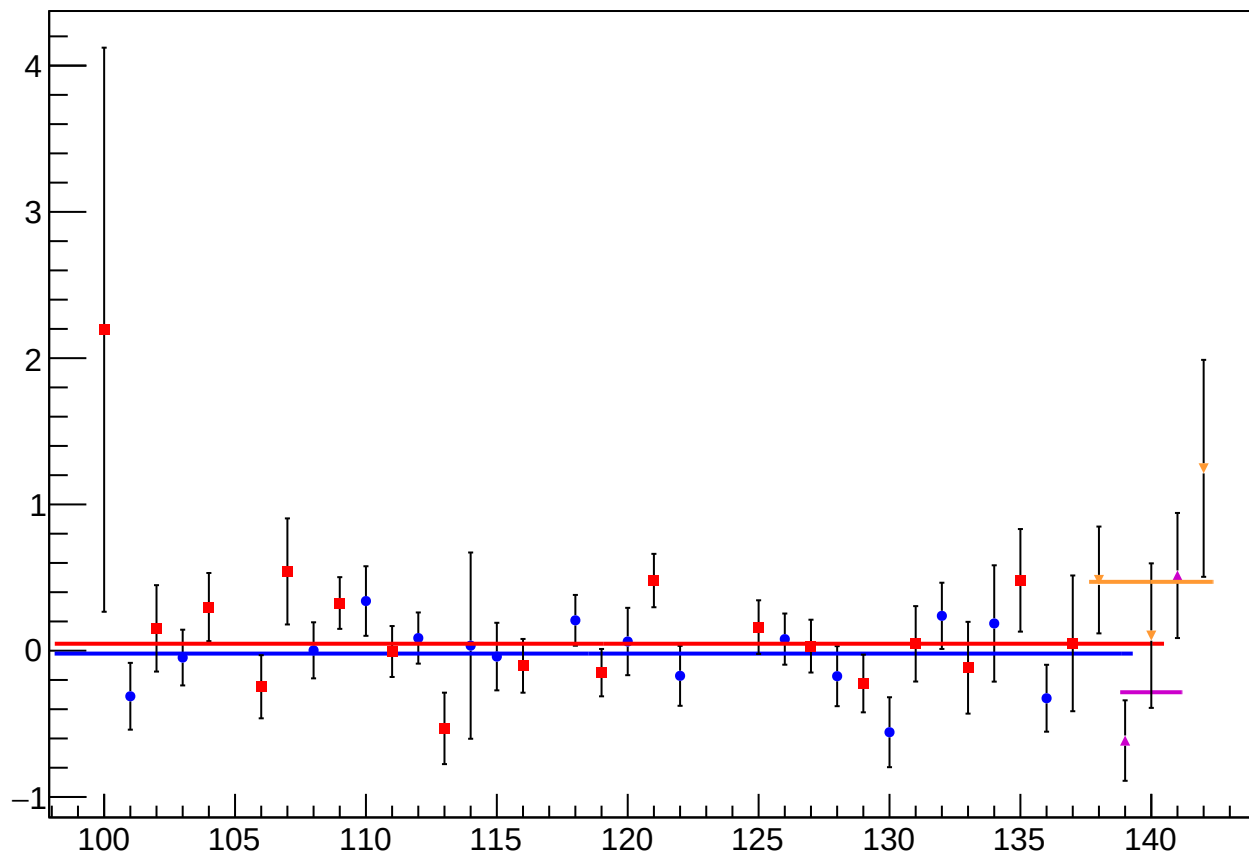
Right: 0.000+/-0.000 χ^2/NDF : 1799459.5/33

In: 0.000+/-0.000 χ^2/NDF :1088786.4/17

Out: 0.000+/-0.000 χ^2/NDF :1521987.5/20

All: 0.000+/-0.000 χ^2/NDF : 2707862.8/38

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.054 $\chi^2/\text{NDF}: 16.0/15$

Left Out: 0.471 ± 0.273 $\chi^2/\text{NDF}: 1.6/2$

Right Out: 0.048 ± 0.052 $\chi^2/\text{NDF}: 26.3/17$

Left In: -0.284 ± 0.231 $\chi^2/\text{NDF}: 4.9/1$

Left: 0.032 ± 0.177 $\chi^2/\text{NDF}: 11.0/4$

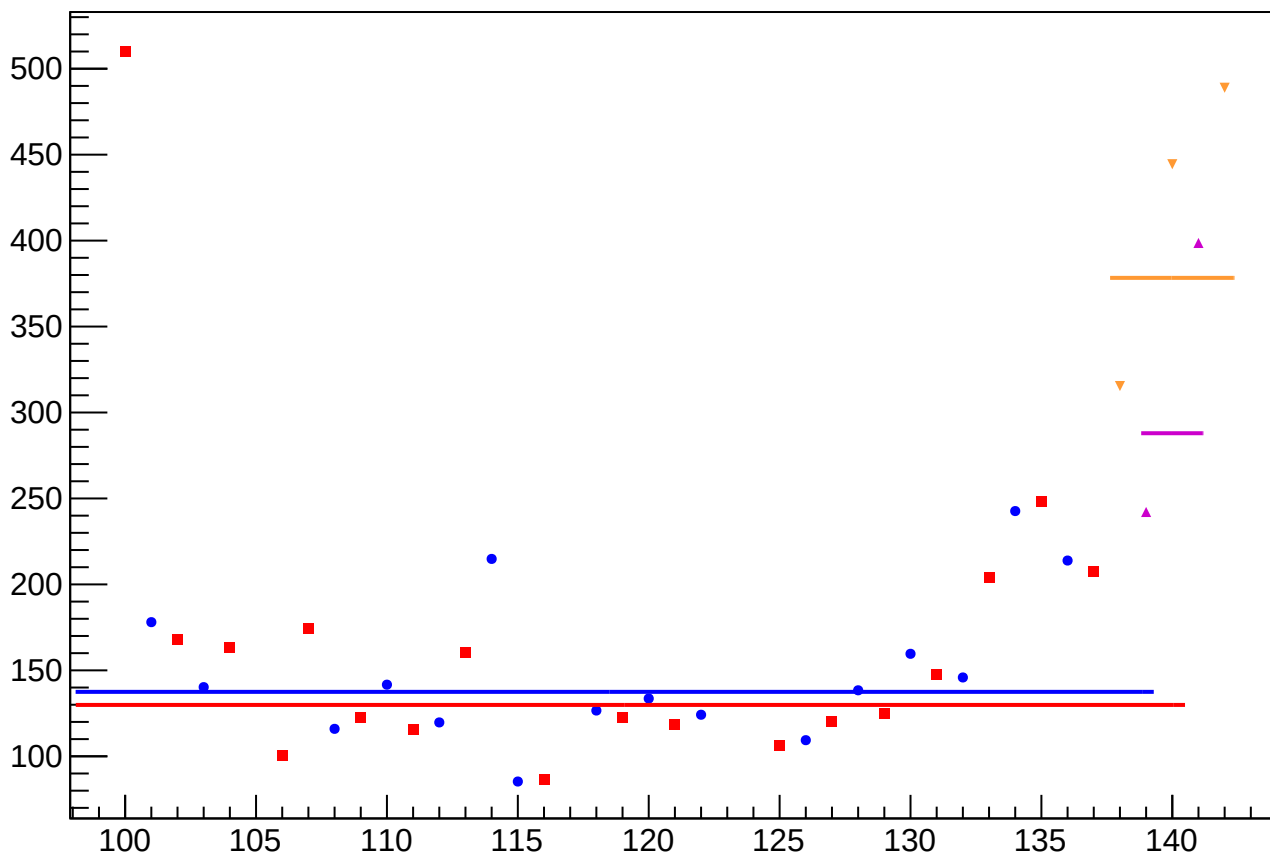
Right: 0.015 ± 0.038 $\chi^2/\text{NDF}: 43.1/33$

In: -0.033 ± 0.053 $\chi^2/\text{NDF}: 22.2/17$

Out: 0.063 ± 0.052 $\chi^2/\text{NDF}: 30.3/20$

All: 0.016 ± 0.037 $\chi^2/\text{NDF}: 54.1/38$

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.492+/-0.038 χ^2/NDF : 692947.9/15

Left Out: 378.327+/-0.193 χ^2/NDF :139695.1/2

Right Out: 129.887+/-0.037 χ^2/NDF : 833983.9/17

Left In: 287.945+/-0.164 χ^2/NDF :189442.9/1

Left: 325.721+/-0.125 χ^2/NDF : 456698.2/4

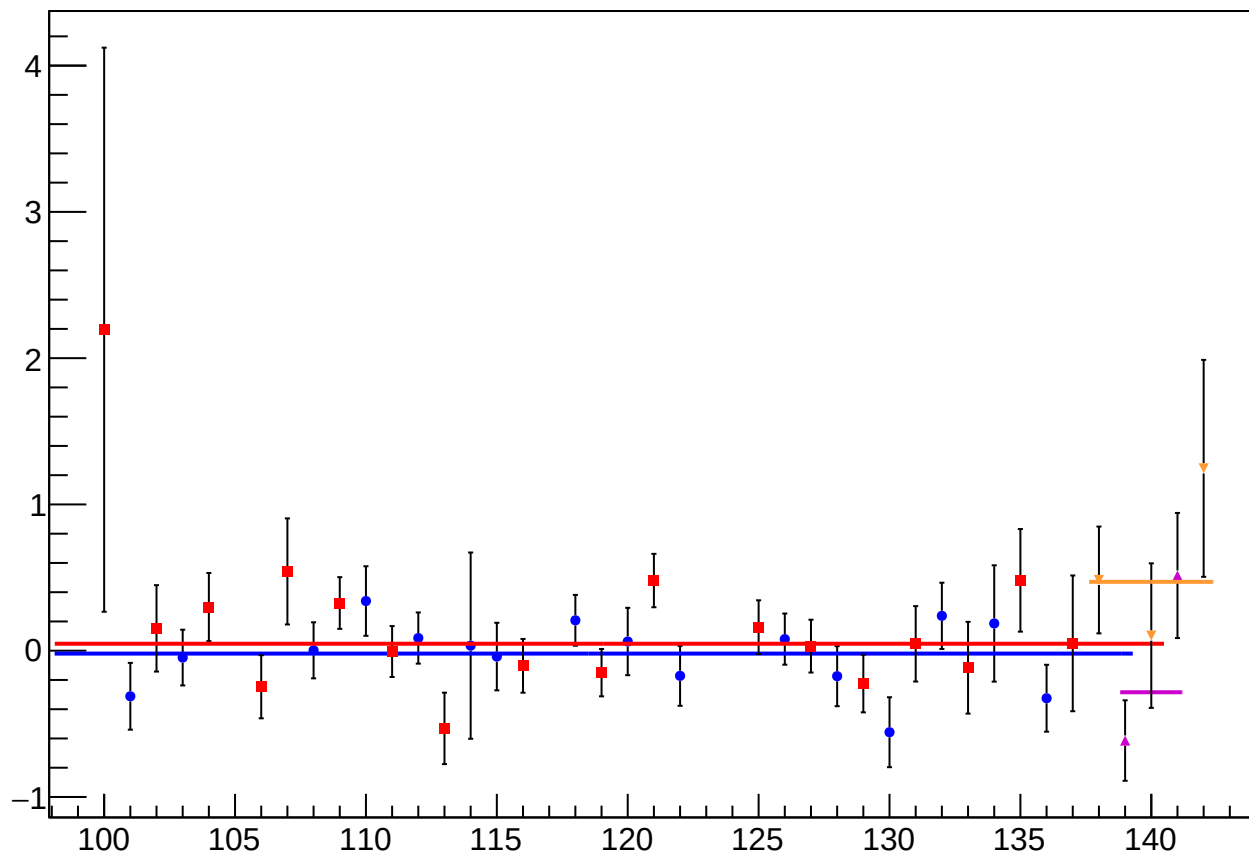
Right: 133.568+/-0.027 χ^2/NDF : 1547246.7/33

In: 145.321+/-0.037 χ^2/NDF :1684086.5/17

Out: 138.743+/-0.036 χ^2/NDF :2570574.2/20

All: 141.955+/-0.026 χ^2/NDF : 4270556.5/38

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.054 $\chi^2/\text{NDF}: 16.0/15$

Left Out: 0.471 ± 0.273 $\chi^2/\text{NDF}: 1.6/2$

Right Out: 0.048 ± 0.052 $\chi^2/\text{NDF}: 26.3/17$

Left In: -0.284 ± 0.231 $\chi^2/\text{NDF}: 4.9/1$

Left: 0.032 ± 0.177 $\chi^2/\text{NDF}: 11.0/4$

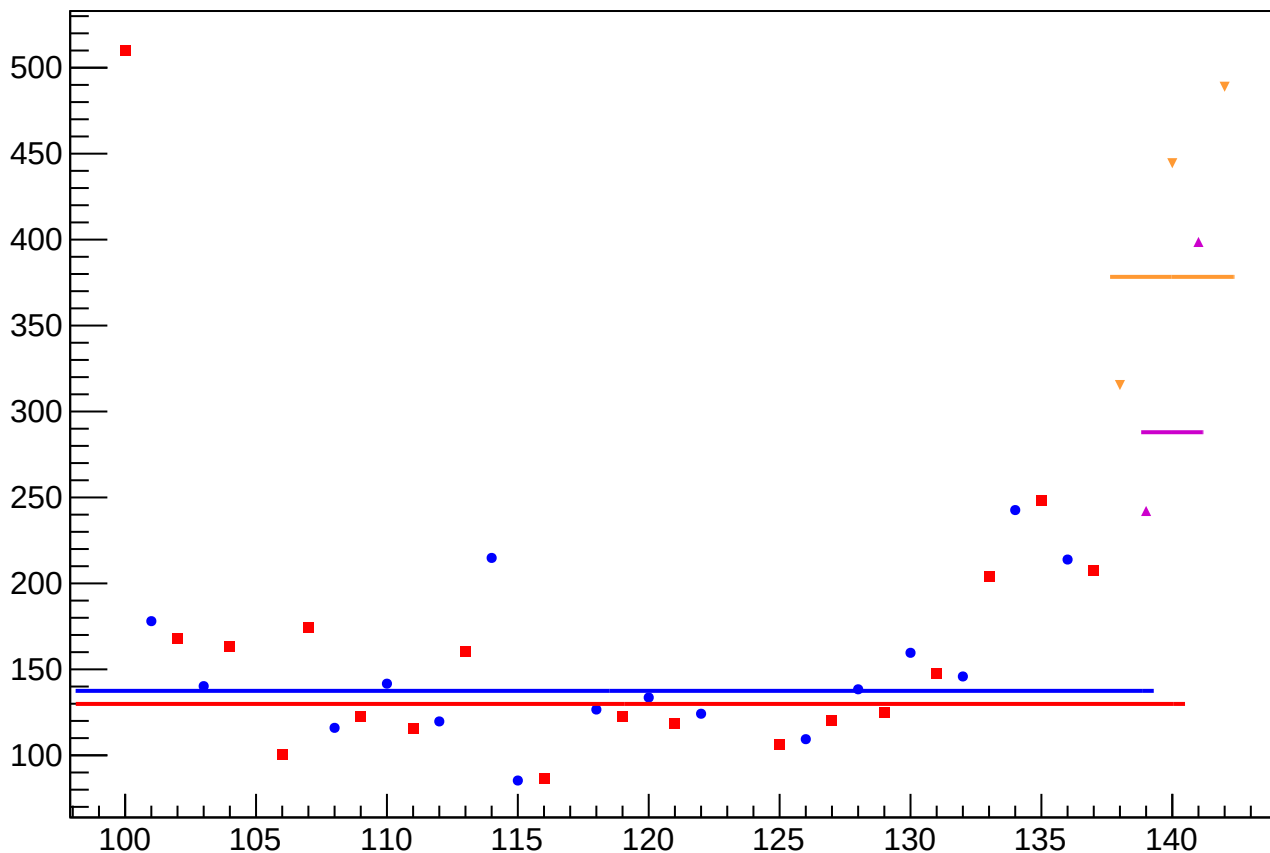
Right: 0.015 ± 0.038 $\chi^2/\text{NDF}: 43.1/33$

In: -0.033 ± 0.053 $\chi^2/\text{NDF}: 22.2/17$

Out: 0.063 ± 0.052 $\chi^2/\text{NDF}: 30.3/20$

All: 0.016 ± 0.037 $\chi^2/\text{NDF}: 54.1/38$

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.492+/-0.038 χ^2/NDF : 692947.9/15

Left Out: 378.327+/-0.193 χ^2/NDF :139695.1/2

Right Out: 129.887+/-0.037 χ^2/NDF : 833983.9/17

Left In: 287.945+/-0.164 χ^2/NDF :189442.9/1

Left: 325.721+/-0.125 χ^2/NDF : 456698.2/4

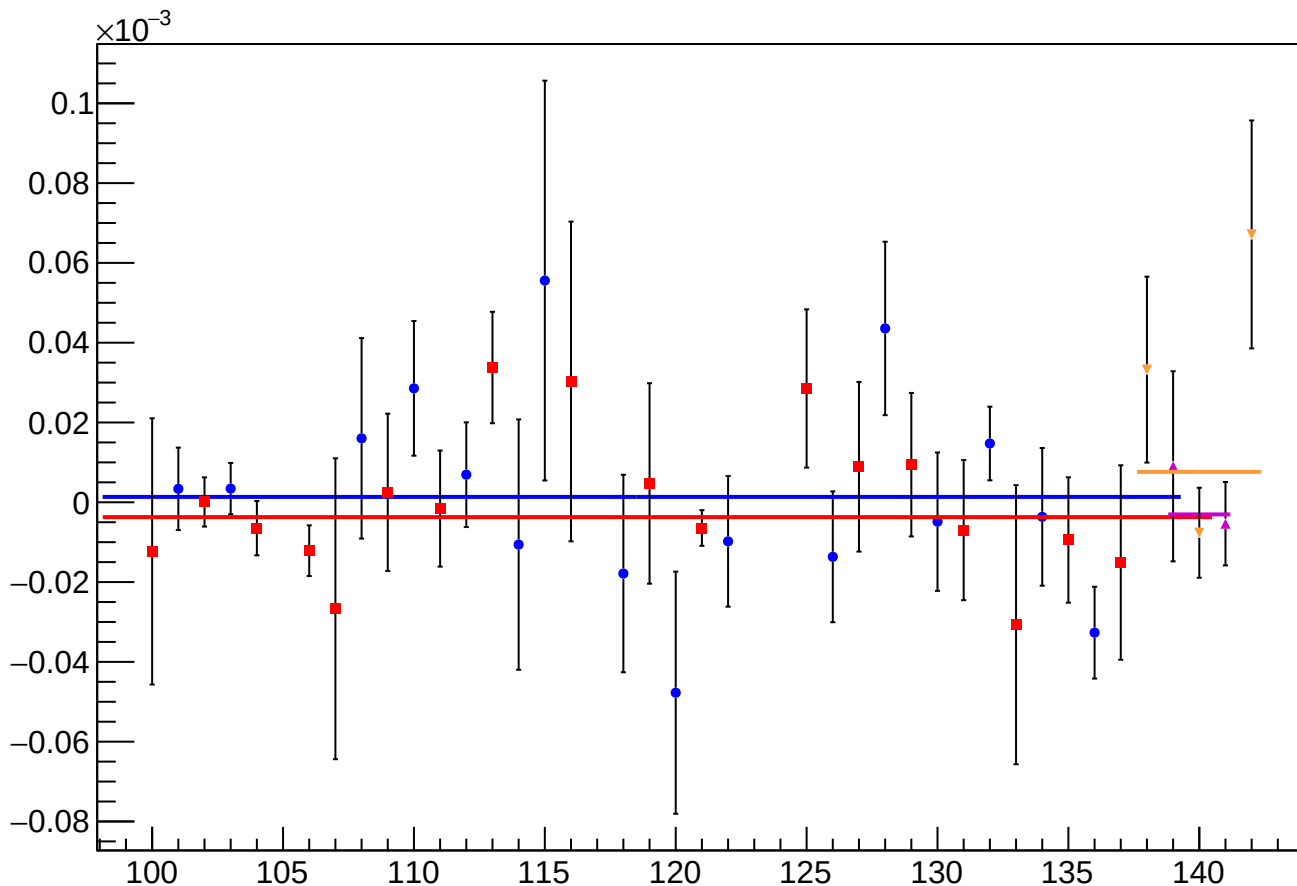
Right: 133.568+/-0.027 χ^2/NDF : 1547246.7/33

In: 145.321+/-0.037 χ^2/NDF :1684086.5/17

Out: 138.743+/-0.036 χ^2/NDF :2570574.2/20

All: 141.955+/-0.026 χ^2/NDF : 4270556.5/38

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 7.4/2

Right Out: -0.000+/-0.000 χ^2/NDF : 15.8/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.3/1

Left: 0.000+/-0.000 χ^2/NDF : 8.3/4

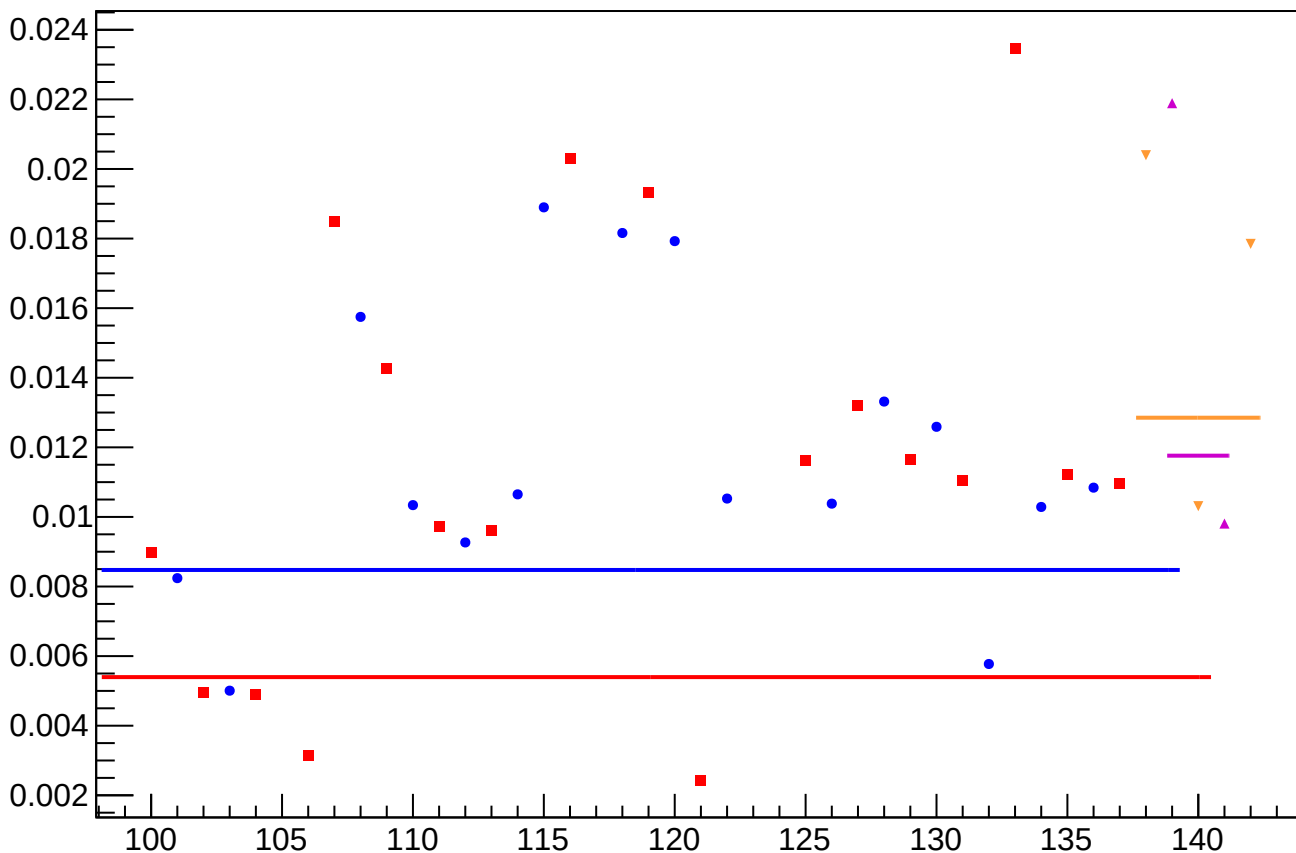
Right: -0.000+/-0.000 χ^2/NDF : 41.1/33

In: 0.000+/-0.000 χ^2/NDF : 24.4/17

Out: -0.000+/-0.000 χ^2/NDF : 24.5/20

All: -0.000+/-0.000 χ^2/NDF : 49.8/38

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1925998.4/15

Left Out: 0.013+/-0.000 χ^2/NDF : 372621.2/2

Right Out: 0.005+/-0.000 χ^2/NDF : 4909074.3/17

Left In: 0.012+/-0.000 χ^2/NDF : 431261.6/1

Left: 0.012+/-0.000 χ^2/NDF : 816890.8/4

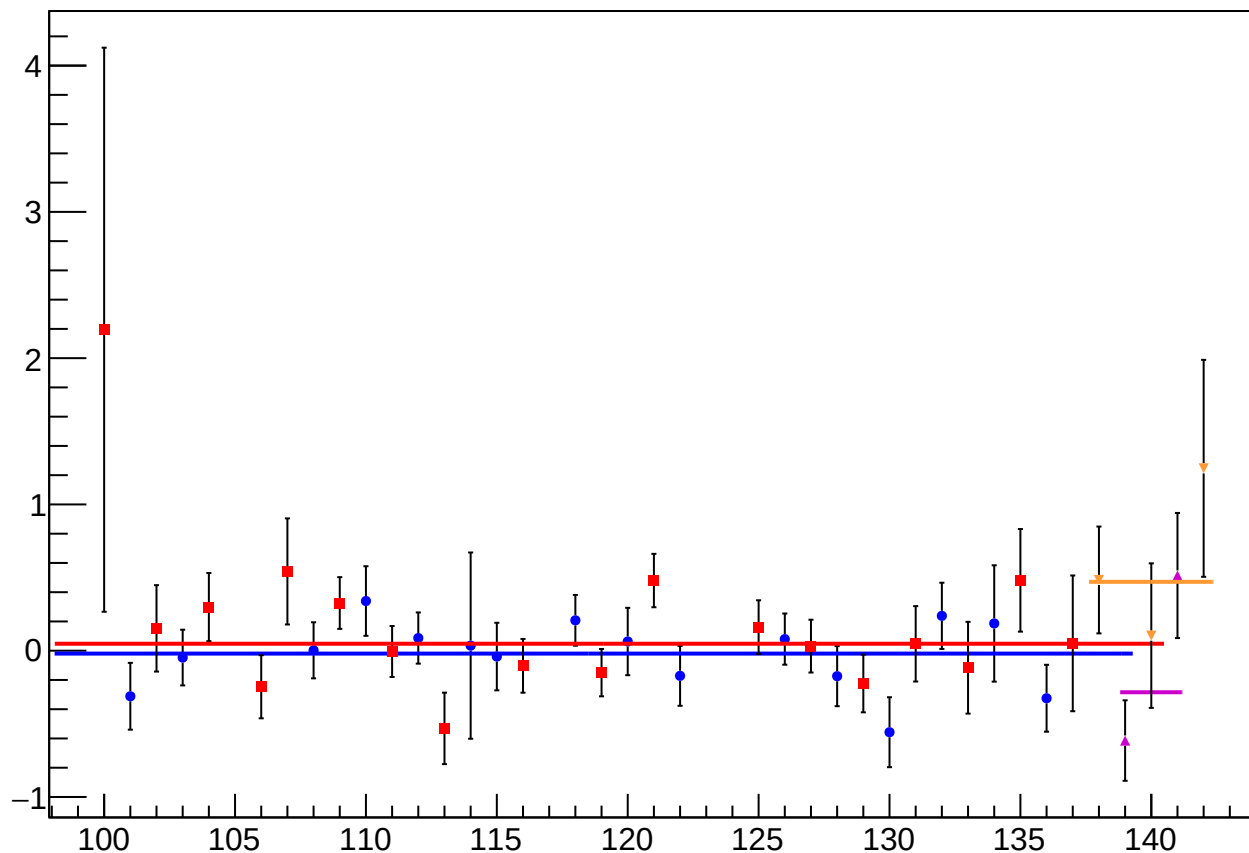
Right: 0.006+/-0.000 χ^2/NDF : 7872620.7/33

In: 0.009+/-0.000 χ^2/NDF : 2565643.3/17

Out: 0.006+/-0.000 χ^2/NDF : 6418230.5/20

All: 0.007+/-0.000 χ^2/NDF : 10053217.3/38

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.054 $\chi^2/\text{NDF}: 16.0/15$

Left Out: 0.471 ± 0.273 $\chi^2/\text{NDF}: 1.6/2$

Right Out: 0.048 ± 0.052 $\chi^2/\text{NDF}: 26.3/17$

Left In: -0.284 ± 0.231 $\chi^2/\text{NDF}: 4.9/1$

Left: 0.032 ± 0.177 $\chi^2/\text{NDF}: 11.0/4$

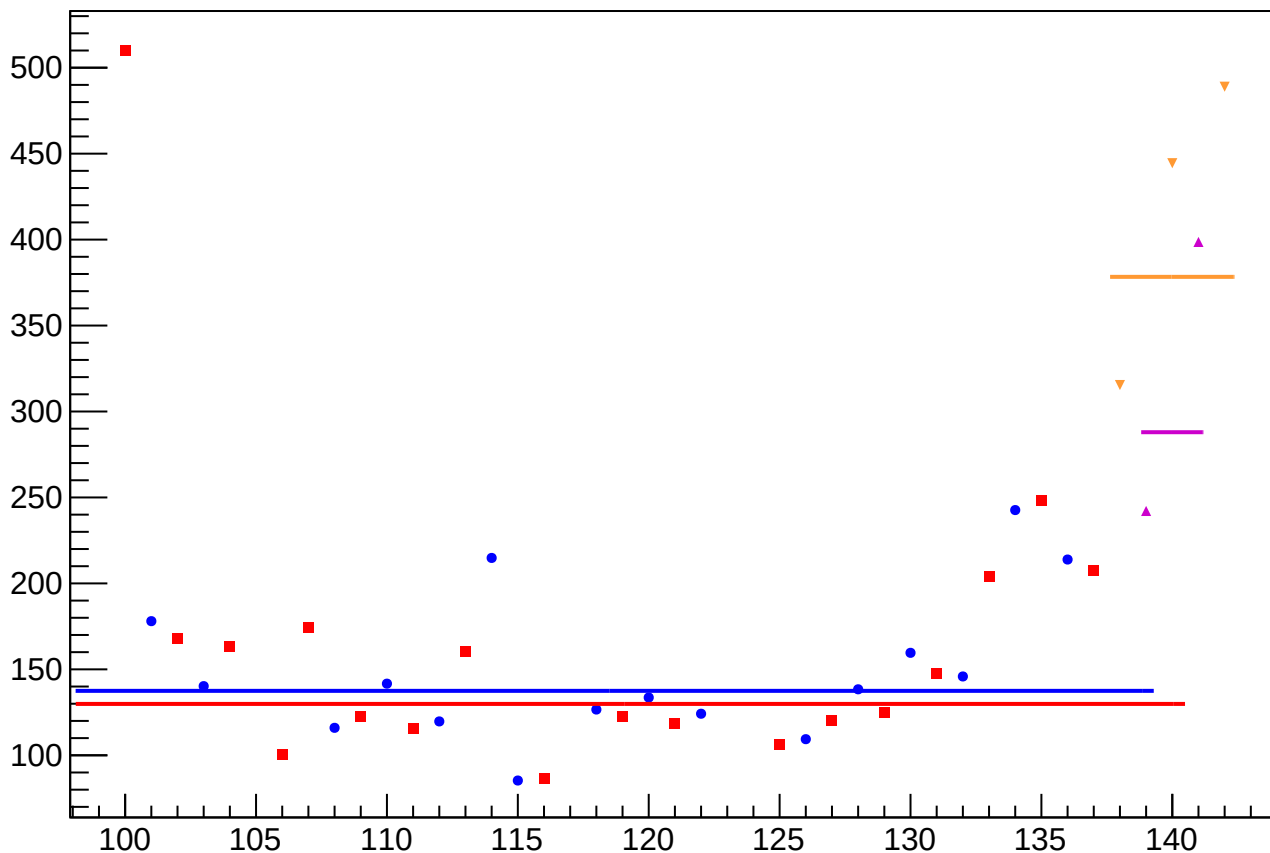
Right: 0.015 ± 0.038 $\chi^2/\text{NDF}: 43.1/33$

In: -0.033 ± 0.053 $\chi^2/\text{NDF}: 22.2/17$

Out: 0.063 ± 0.052 $\chi^2/\text{NDF}: 30.3/20$

All: 0.016 ± 0.037 $\chi^2/\text{NDF}: 54.1/38$

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.492+/-0.038 χ^2/NDF : 692923.1/15

Left Out: 378.331+/-0.193 χ^2/NDF : 139704.2/2

Right Out: 129.887+/-0.037 χ^2/NDF : 833937.8/17

Left In: 287.953+/-0.164 χ^2/NDF : 189431.9/1

Left: 325.728+/-0.125 χ^2/NDF : 456680.9/4

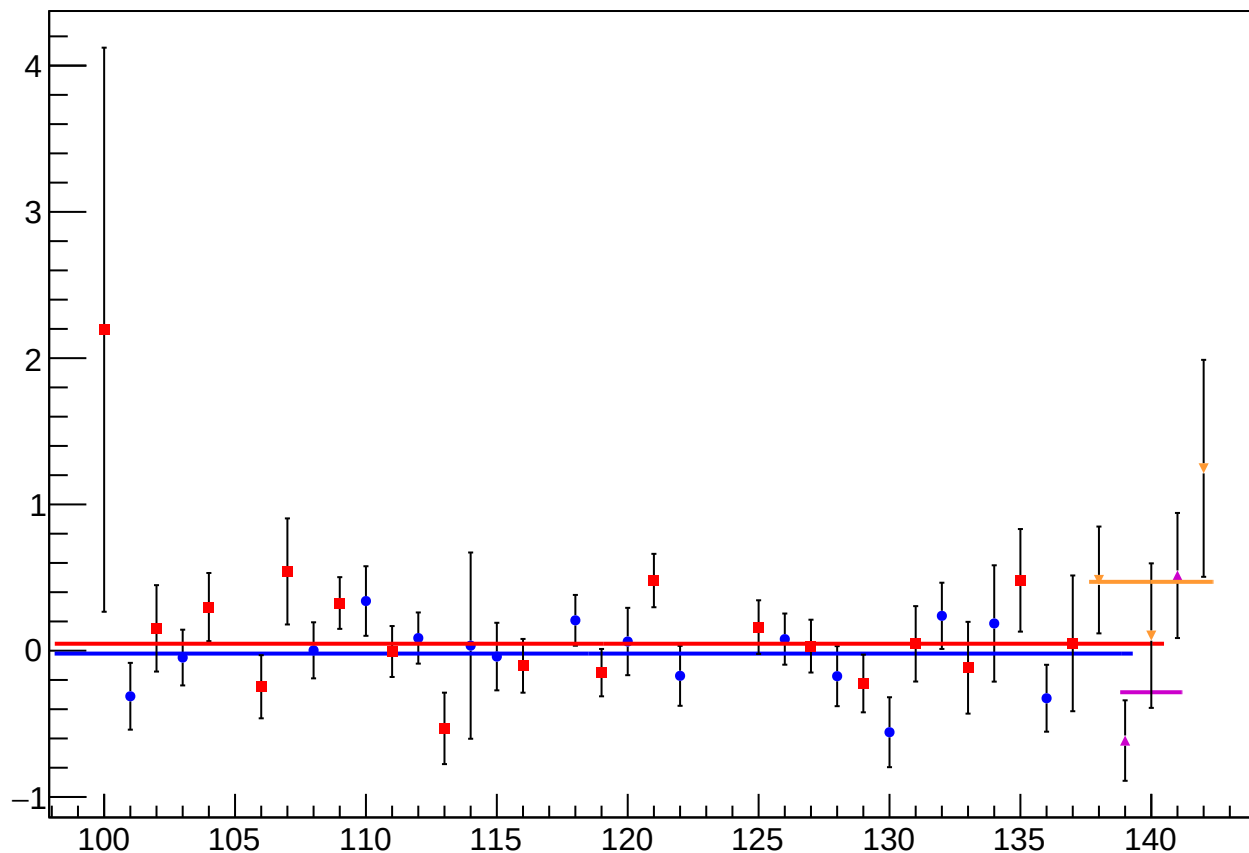
Right: 133.568+/-0.027 χ^2/NDF : 1547174.9/33

In: 145.320+/-0.037 χ^2/NDF : 1684095.3/17

Out: 138.743+/-0.036 χ^2/NDF : 2570552.8/20

All: 141.955+/-0.026 χ^2/NDF : 4270543.4/38

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.054 $\chi^2/\text{NDF}: 16.0/15$

Left Out: 0.471 ± 0.273 $\chi^2/\text{NDF}: 1.6/2$

Right Out: 0.048 ± 0.052 $\chi^2/\text{NDF}: 26.3/17$

Left In: -0.284 ± 0.231 $\chi^2/\text{NDF}: 4.9/1$

Left: 0.032 ± 0.177 $\chi^2/\text{NDF}: 11.0/4$

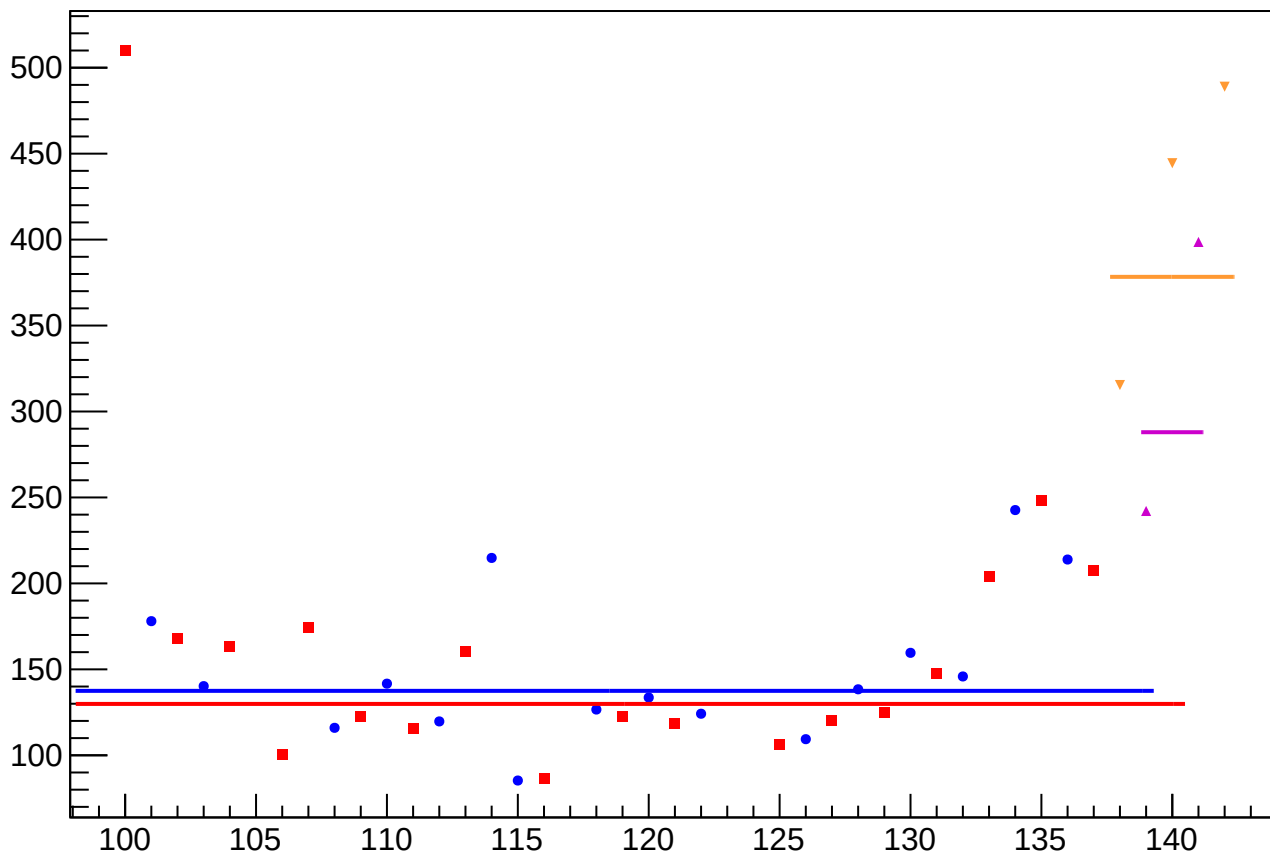
Right: 0.015 ± 0.038 $\chi^2/\text{NDF}: 43.1/33$

In: -0.033 ± 0.053 $\chi^2/\text{NDF}: 22.2/17$

Out: 0.063 ± 0.052 $\chi^2/\text{NDF}: 30.3/20$

All: 0.016 ± 0.037 $\chi^2/\text{NDF}: 54.1/38$

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.492+/-0.038 χ^2/NDF : 692923.1/15

Left Out: 378.331+/-0.193 χ^2/NDF :139704.2/2

Right Out: 129.887+/-0.037 χ^2/NDF : 833937.8/17

Left In: 287.953+/-0.164 χ^2/NDF :189431.9/1

Left: 325.728+/-0.125 χ^2/NDF : 456680.9/4

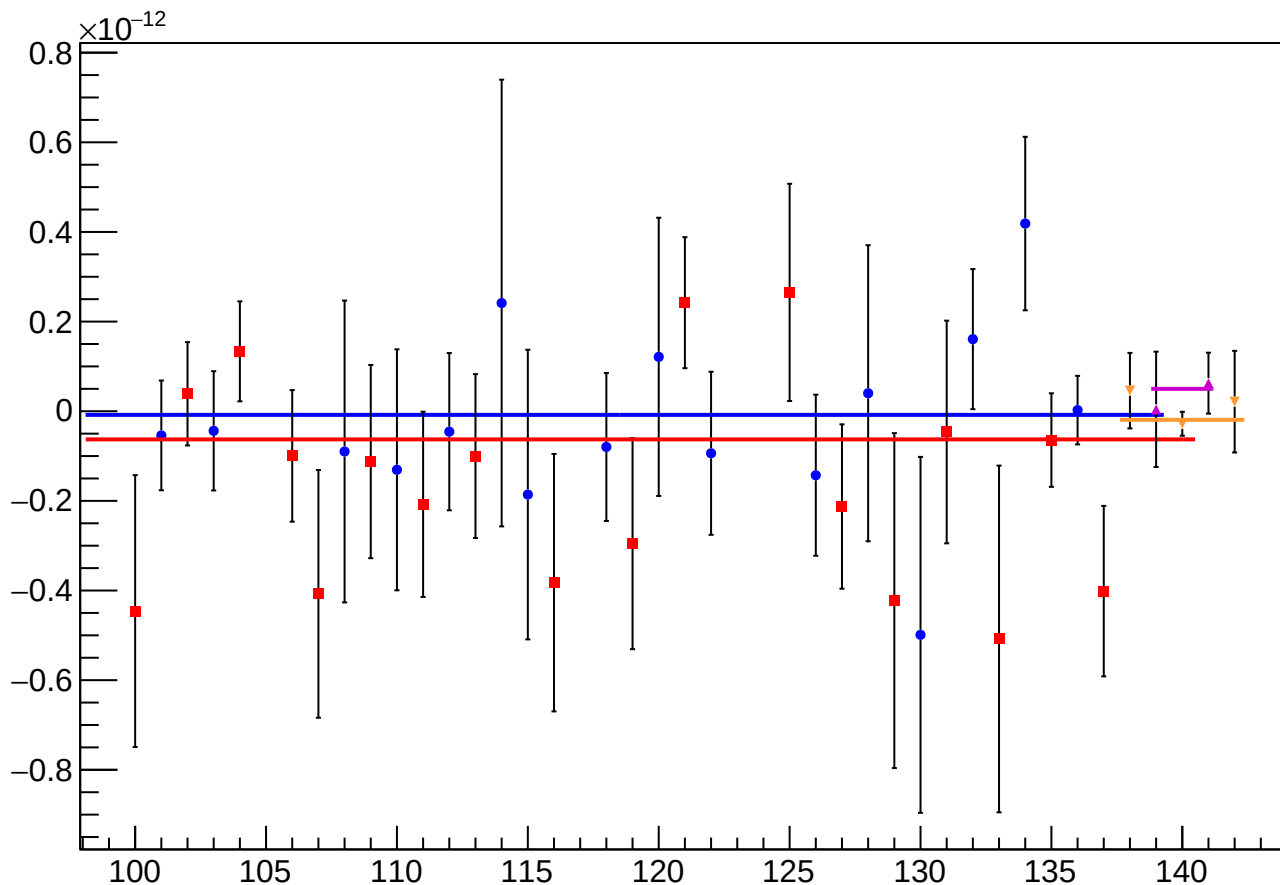
Right: 133.568+/-0.027 χ^2/NDF : 1547174.9/33

In: 145.320+/-0.037 χ^2/NDF :1684095.3/17

Out: 138.743+/-0.036 χ^2/NDF :2570552.8/20

All: 141.955+/-0.026 χ^2/NDF : 4270543.4/38

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 9.8/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 0.8/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 22.2/17

Left In: 0.000 ± 0.000 χ^2/NDF : 0.2/1

Left: -0.000 ± 0.000 χ^2/NDF : 2.1/4

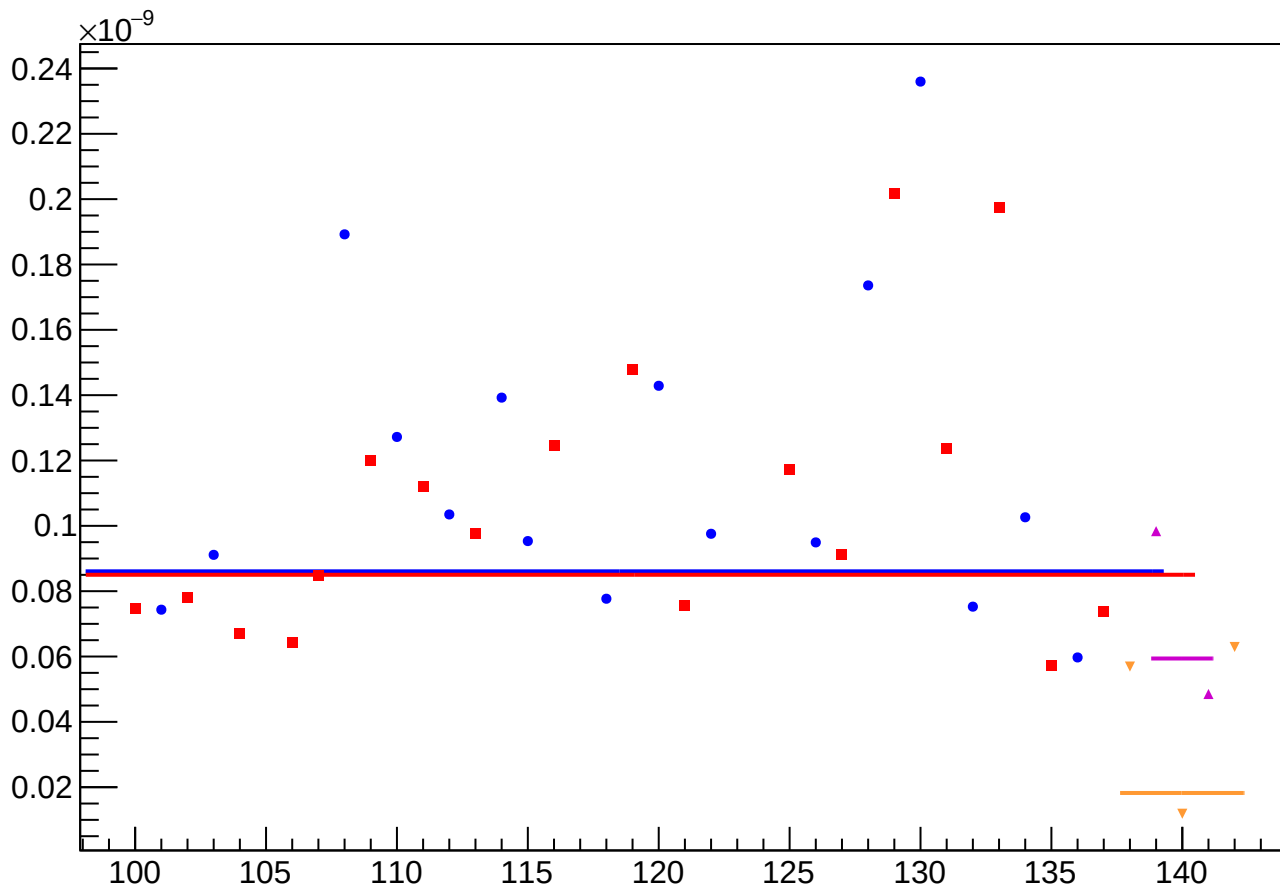
Right: -0.000 ± 0.000 χ^2/NDF : 32.8/33

In: 0.000 ± 0.000 χ^2/NDF : 10.6/17

Out: -0.000 ± 0.000 χ^2/NDF : 23.8/20

All: -0.000 ± 0.000 χ^2/NDF : 35.5/38

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1072075.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :846276.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 983211.4/17

Left In: 0.000+/-0.000 χ^2/NDF :234584.5/1

Left: 0.000+/-0.000 χ^2/NDF : 1882545.7/4

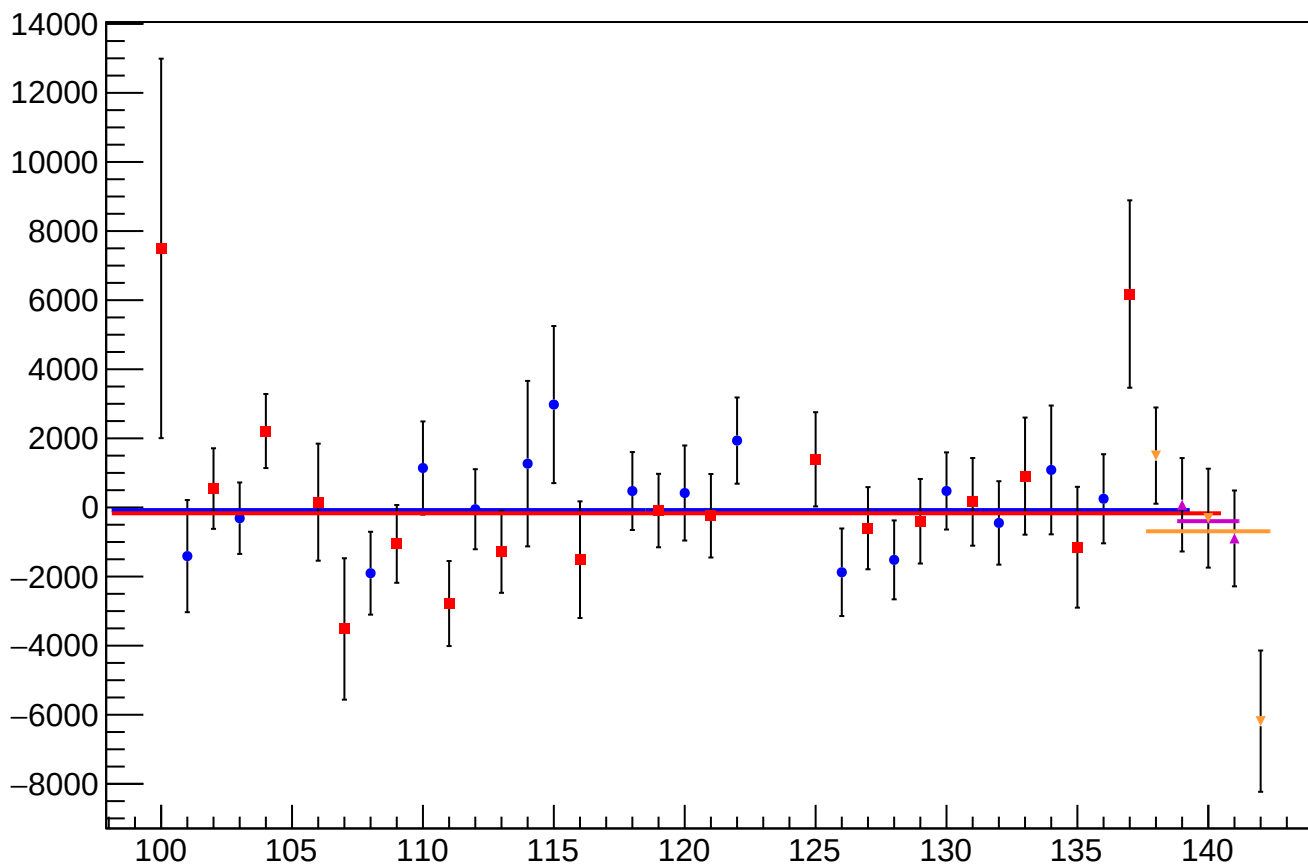
Right: 0.000+/-0.000 χ^2/NDF : 2055907.6/33

In: 0.000+/-0.000 χ^2/NDF :1569606.5/17

Out: 0.000+/-0.000 χ^2/NDF :5613640.7/20

All: 0.000+/-0.000 χ^2/NDF : 9261402.1/38

reg_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -75.944+/-326.226 χ^2/NDF : 13.4/15

Left Out: -689.693+/-897.152 χ^2/NDF : 9.8/2

Right Out: -169.345+/-321.827 χ^2/NDF : 24.4/17

Left In: -396.916+/-968.181 χ^2/NDF : 0.3/1

Left: -554.437+/-658.062 χ^2/NDF : 10.1/4

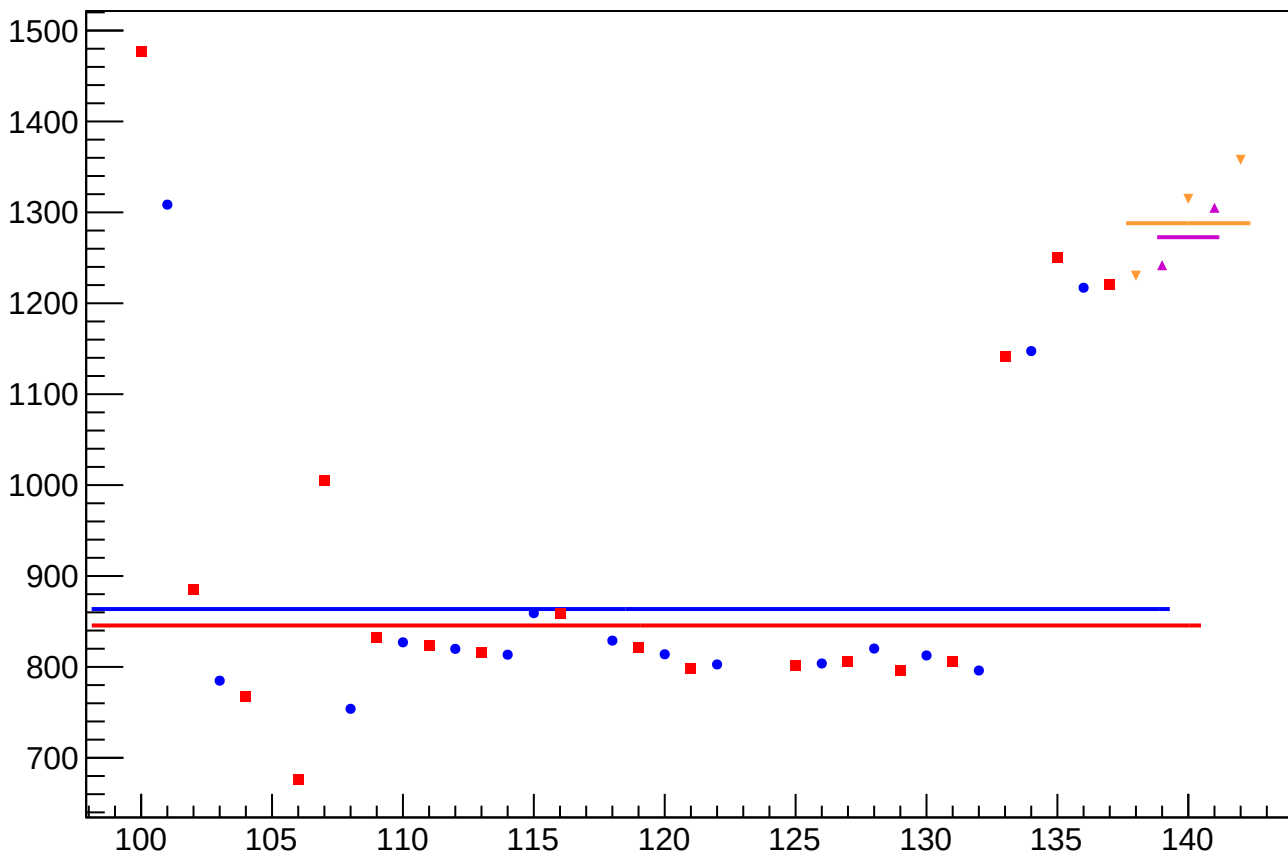
Right: -123.279+/-229.106 χ^2/NDF : 37.8/33

In: -108.670+/-309.149 χ^2/NDF : 13.7/17

Out: -228.670+/-302.926 χ^2/NDF : 34.4/20

All: -169.890+/-216.368 χ^2/NDF : 48.2/38

reg_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 863.661 $\pm$ 0.231 χ^2 /NDF: 407498.8/15

Left Out: 1288.066 $\pm$ 0.634 χ^2 /NDF: 6464.6/2

Right Out: 845.579 $\pm$ 0.225 χ^2 /NDF: 307774.6/17

Left In: 1272.683 $\pm$ 0.685 χ^2 /NDF: 2127.1/1

Left: 1280.960 $\pm$ 0.465 χ^2 /NDF: 8863.4/4

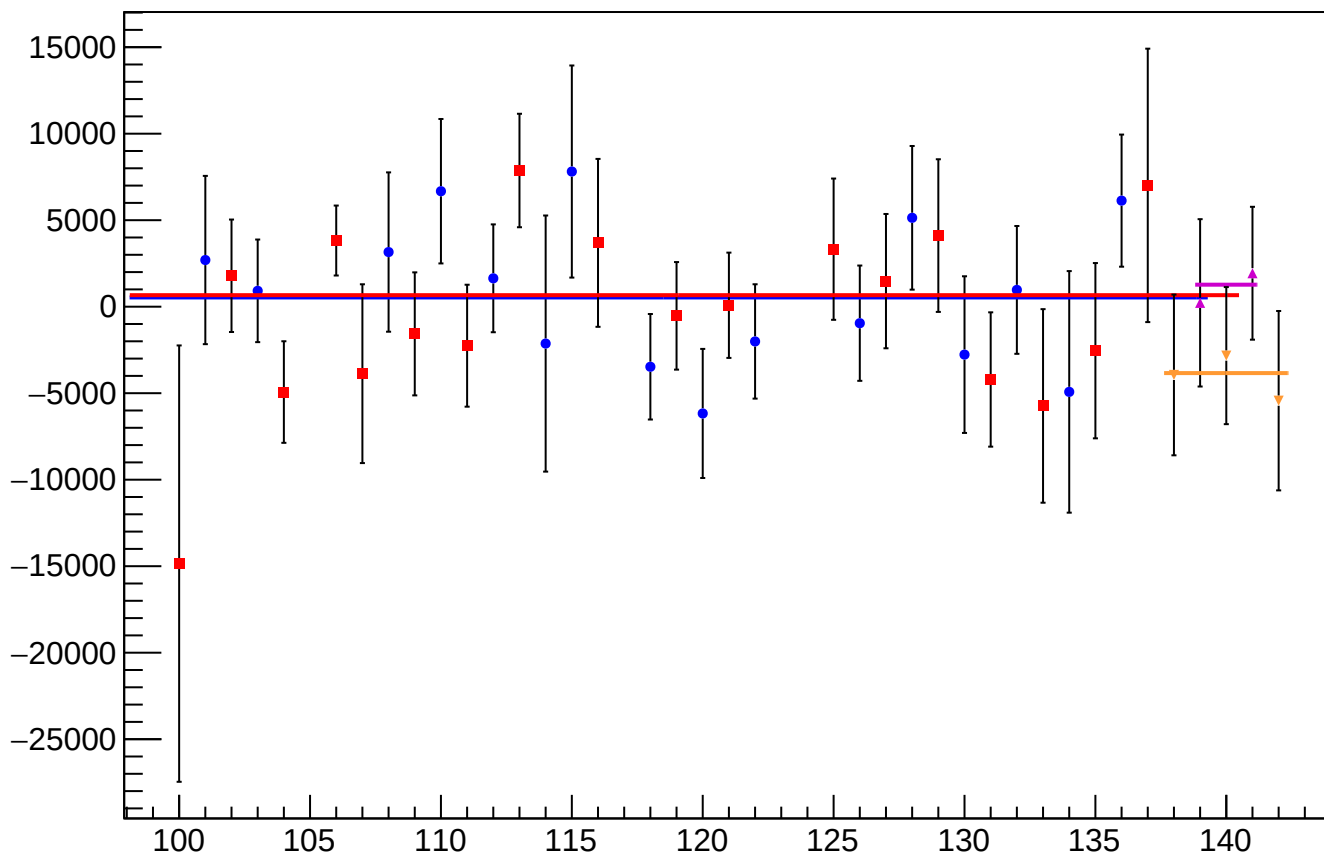
Right: 854.385 $\pm$ 0.161 χ^2 /NDF: 718425.8/33

In: 905.365 $\pm$ 0.219 χ^2 /NDF: 730184.2/17

Out: 894.926 $\pm$ 0.212 χ^2 /NDF: 746500.9/20

All: 899.981 $\pm$ 0.152 χ^2 /NDF: 1477861.1/38

asym_usl_atl2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 534.507+/-981.290 χ^2/NDF : 14.7/15

Left Out: -3837.763+/-2606.087 χ^2/NDF : 0.2/2

Right Out: 665.878+/-864.970 χ^2/NDF : 20.0/17

Left In: 1272.122+/-3007.420 χ^2/NDF : 0.1/1

Left: -1646.290+/-1969.503 χ^2/NDF : 1.9/4

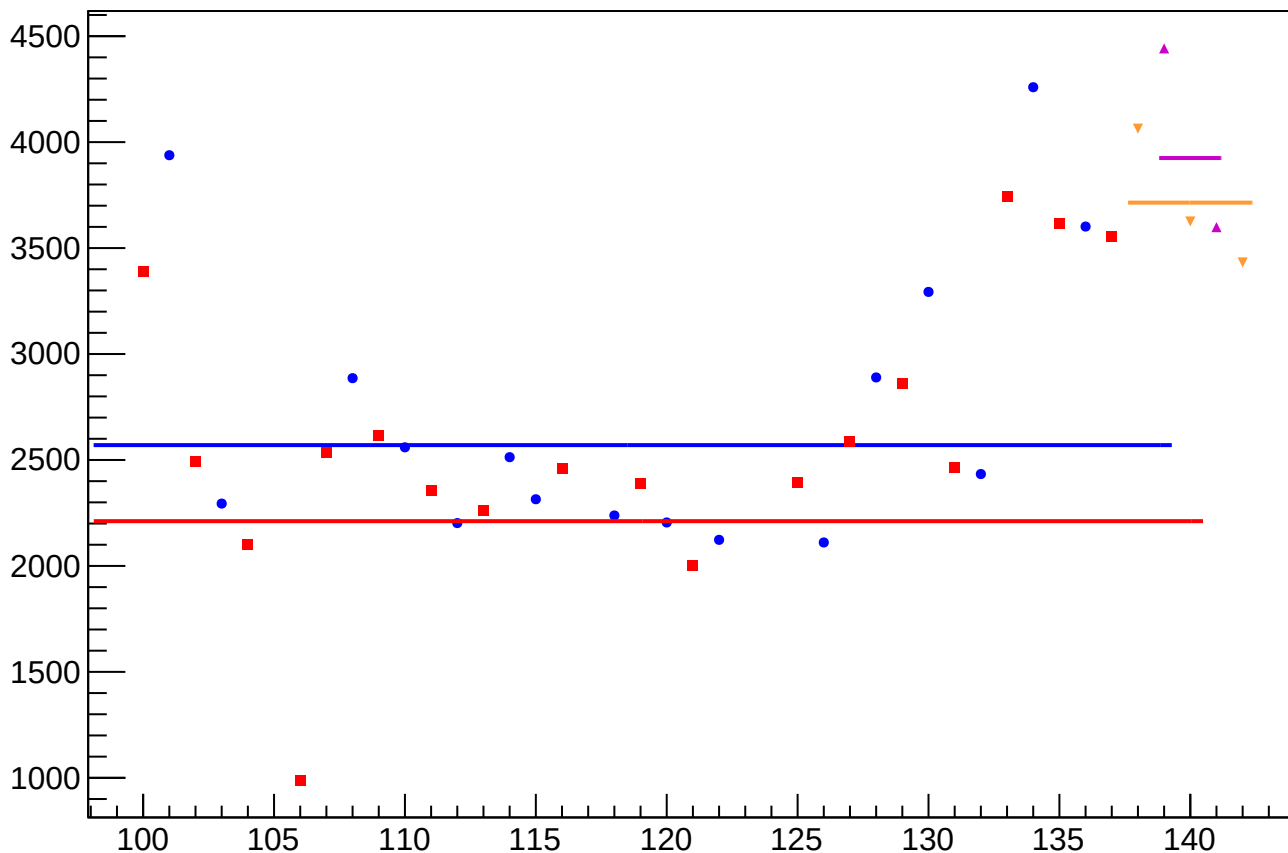
Right: 608.437+/-648.874 χ^2/NDF : 34.6/33

In: 605.481+/-932.886 χ^2/NDF : 14.8/17

Out: 218.986+/-820.934 χ^2/NDF : 22.8/20

All: 387.663+/-616.288 χ^2/NDF : 37.7/38

asym_usl_atl2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 2570.135 $\pm$ 0.694 χ^2 /NDF: 662477.9/15

Left Out: 3714.528 $\pm$ 1.843 χ^2 /NDF:18230.3/2

Right Out: 2211.269 $\pm$ 0.612 χ^2 /NDF: 1264087.9/17

Left In: 3924.953 $\pm$ 2.127 χ^2 /NDF:37314.7/1

Left: 3804.773 $\pm$ 1.393 χ^2 /NDF: 61137.0/4

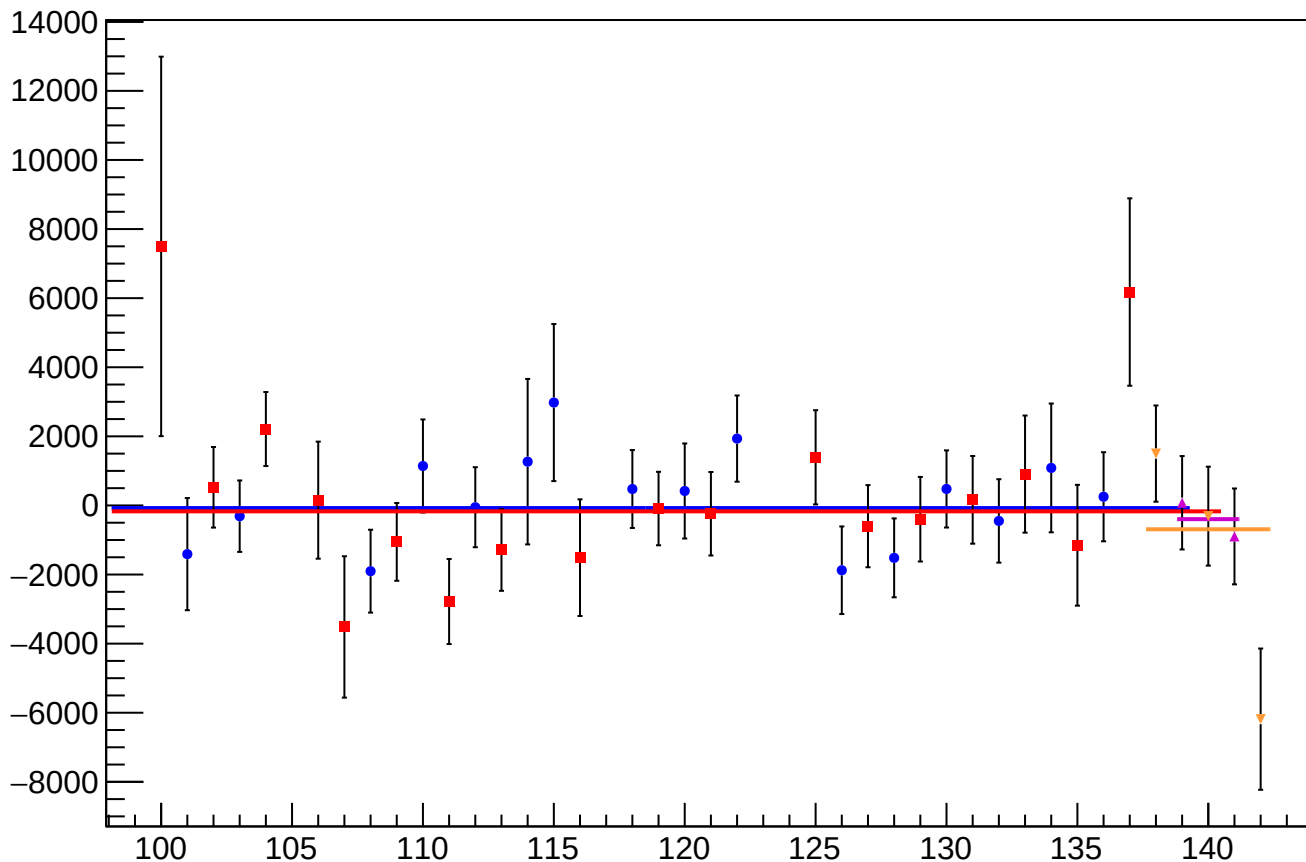
Right: 2368.182 $\pm$ 0.459 χ^2 /NDF: 2077093.7/33

In: 2700.496 $\pm$ 0.660 χ^2 /NDF:1066623.5/17

Out: 2360.436 $\pm$ 0.580 χ^2 /NDF:1881742.3/20

All: 2508.847 $\pm$ 0.436 χ^2 /NDF: 3098139.5/38

cor_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -76.022 $\pm$ 326.226 χ^2 /NDF: 13.3/15

Left Out: -689.857 $\pm$ 897.152 χ^2 /NDF:9.8/2

Right Out: -170.982 $\pm$ 321.832 χ^2 /NDF: 24.4/17

Left In: -396.815 $\pm$ 968.181 χ^2 /NDF:0.3/1

Left: -554.478 $\pm$ 658.062 χ^2 /NDF: 10.1/4

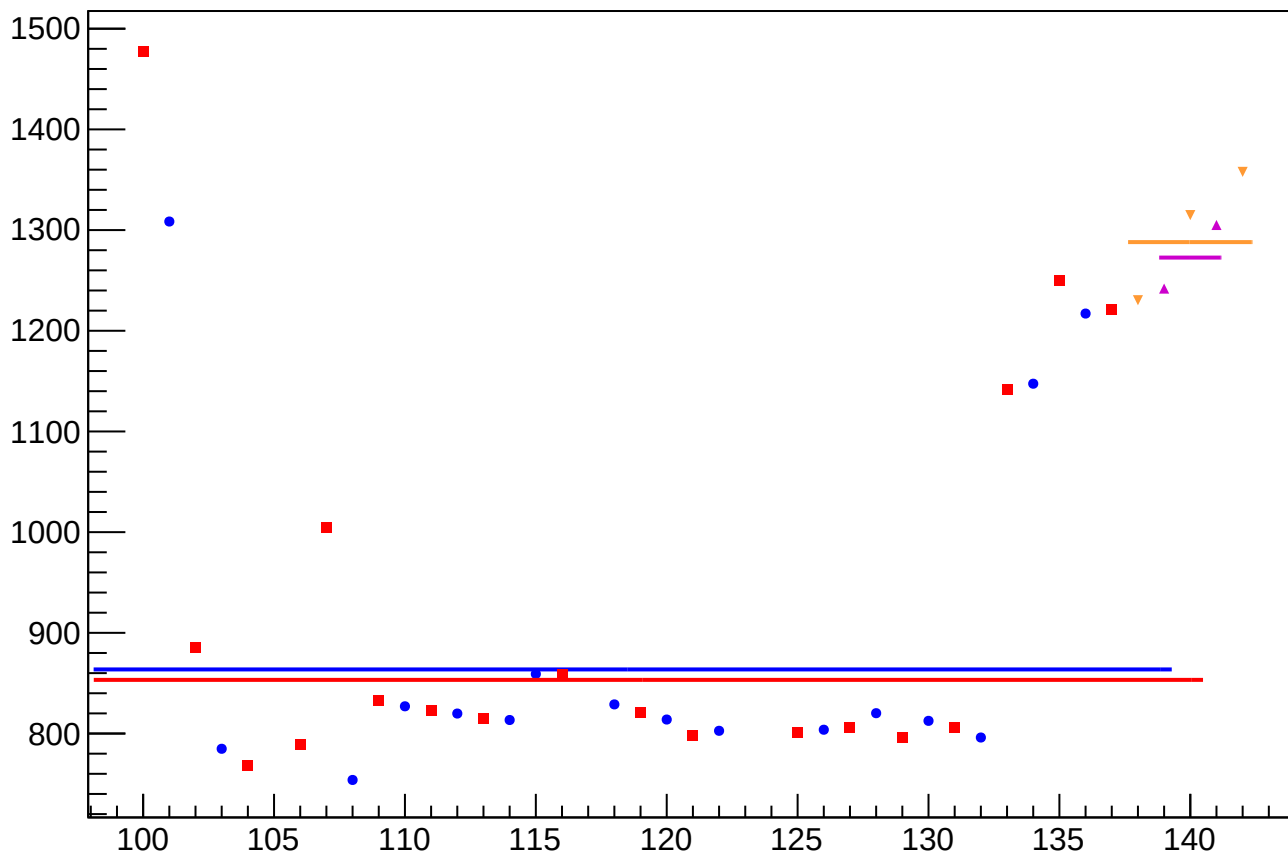
Right: -124.146 $\pm$ 229.107 χ^2 /NDF: 37.7/33

In: -108.730 $\pm$ 309.149 χ^2 /NDF:13.7/17

Out: -230.141 $\pm$ 302.930 χ^2 /NDF:34.4/20

All: -170.668 $\pm$ 216.369 χ^2 /NDF: 48.2/38

cor_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 863.661+/-0.231 χ^2/NDF : 407498.5/15

Left Out: 1288.066+/-0.634 χ^2/NDF : 6464.6/2

Right Out: 853.289+/-0.226 χ^2/NDF : 275357.1/17

Left In: 1272.683+/-0.685 χ^2/NDF : 2127.1/1

Left: 1280.960+/-0.465 χ^2/NDF : 8863.4/4

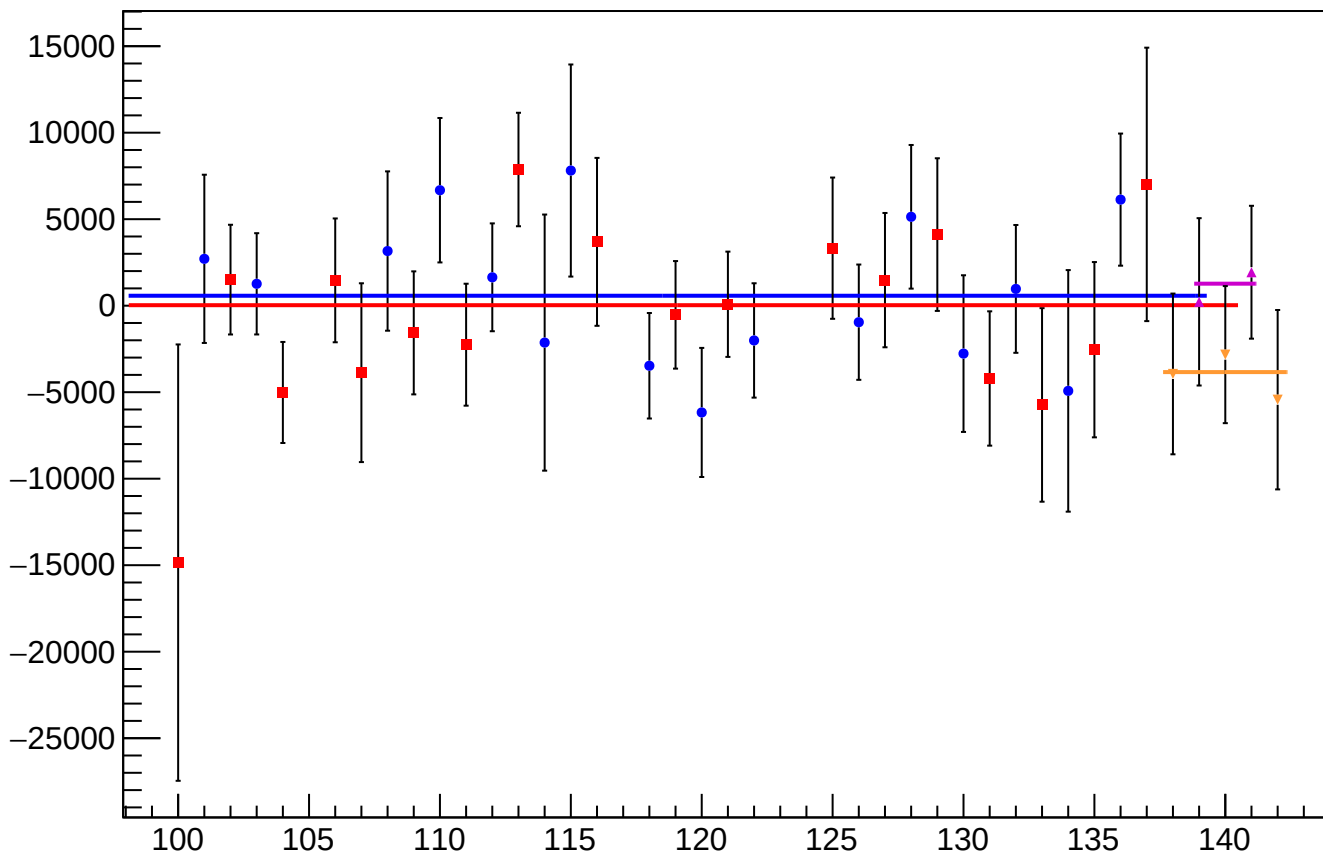
Right: 858.378+/-0.162 χ^2/NDF : 683885.4/33

In: 905.364+/-0.219 χ^2/NDF : 730184.0/17

Out: 902.407+/-0.213 χ^2/NDF : 698469.1/20

All: 903.849+/-0.153 χ^2/NDF : 1428746.9/38

asym_usl_atl2_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 574.964 $\pm$ 979.856 χ^2 /NDF: 14.7/15

Left Out: -3838.045 $\pm$ 2606.092 χ^2 /NDF:0.2/2

Right Out: 28.604 $\pm$ 922.115 χ^2 /NDF: 17.2/17

Left In: 1272.185 $\pm$ 3007.418 χ^2 /NDF:0.1/1

Left: -1646.417 $\pm$ 1969.504 χ^2 /NDF: 1.9/4

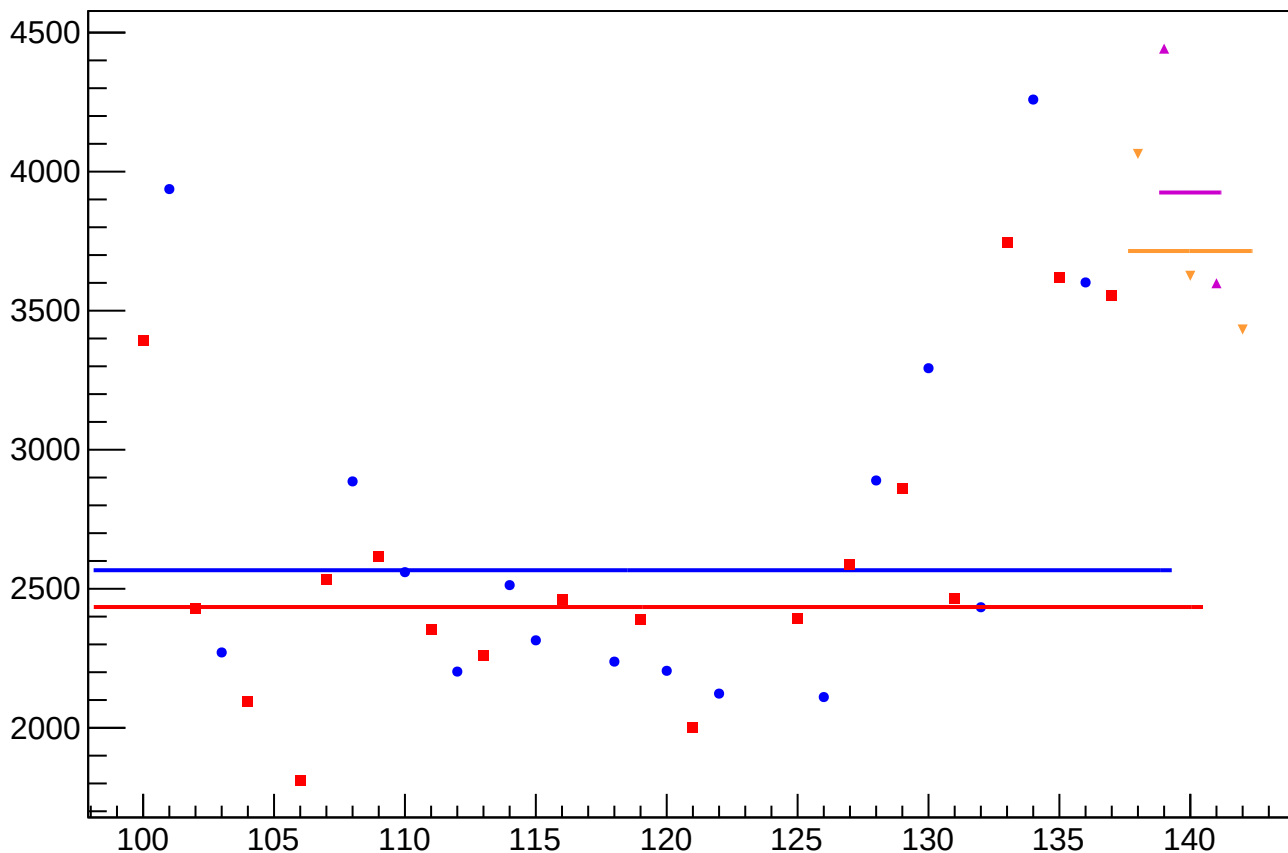
Right: 285.212 $\pm$ 671.519 χ^2 /NDF: 32.1/33

In: 641.874 $\pm$ 931.654 χ^2 /NDF:14.8/17

Out: -401.623 $\pm$ 869.303 χ^2 /NDF:19.3/20

All: 84.042 $\pm$ 635.590 χ^2 /NDF: 34.8/38

asym_usl_atl2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 2566.732 $\pm$ 0.693 χ^2 /NDF: 665871.6/15

Left Out: 3714.536 $\pm$ 1.843 χ^2 /NDF:18228.7/2

Right Out: 2434.430 $\pm$ 0.652 χ^2 /NDF: 434078.9/17

Left In: 3924.949 $\pm$ 2.127 χ^2 /NDF:37314.3/1

Left: 3804.776 $\pm$ 1.393 χ^2 /NDF: 61134.4/4

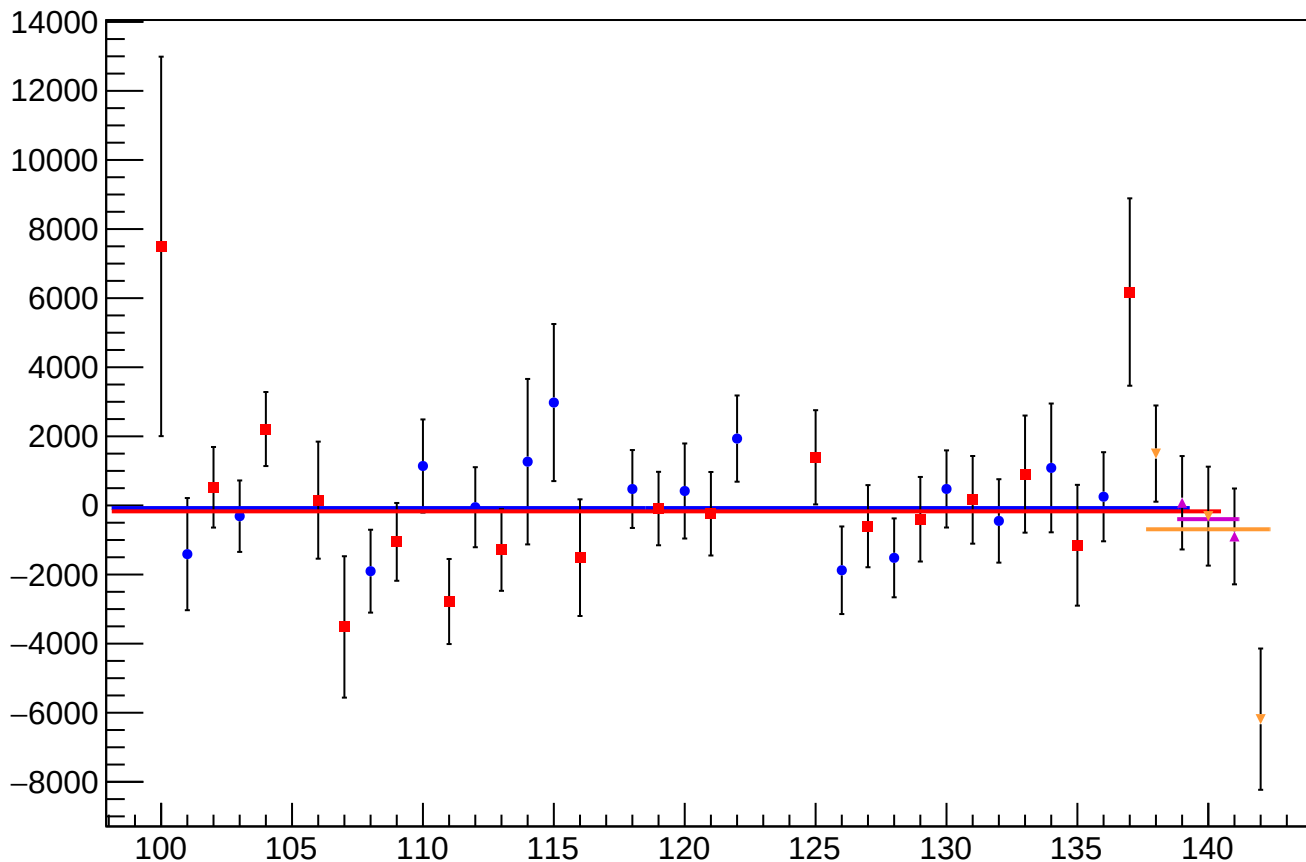
Right: 2496.568 $\pm$ 0.475 χ^2 /NDF: 1119287.3/33

In: 2697.076 $\pm$ 0.659 χ^2 /NDF:1071964.0/17

Out: 2576.862 $\pm$ 0.615 χ^2 /NDF:881166.1/20

All: 2632.812 $\pm$ 0.449 χ^2 /NDF: 1970931.0/38

eigen_cor_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -76.022+/-326.226 χ^2/NDF : 13.3/15

Left Out: -689.857+/-897.152 χ^2/NDF : 9.8/2

Right Out: -170.982+/-321.832 χ^2/NDF : 24.4/17

Left In: -396.815+/-968.181 χ^2/NDF : 0.3/1

Left: -554.478+/-658.062 χ^2/NDF : 10.1/4

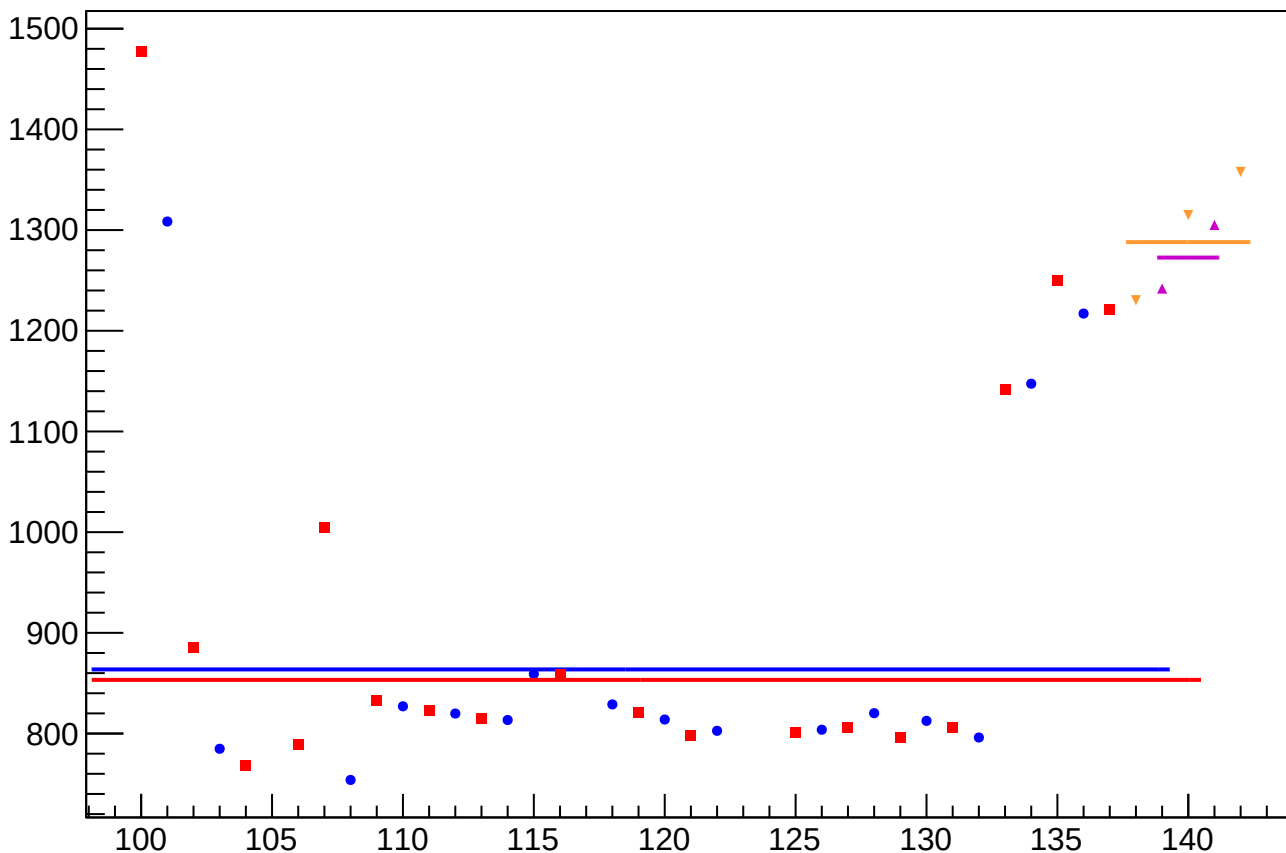
Right: -124.146+/-229.107 χ^2/NDF : 37.7/33

In: -108.730+/-309.149 χ^2/NDF : 13.7/17

Out: -230.141+/-302.930 χ^2/NDF : 34.4/20

All: -170.668+/-216.369 χ^2/NDF : 48.2/38

eigen_cor_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 863.661 $\pm$ 0.231 χ^2/NDF : 407498.5/15

Left Out: 1288.066 $\pm$ 0.634 χ^2/NDF : 6464.6/2

Right Out: 853.289 $\pm$ 0.226 χ^2/NDF : 275357.1/17

Left In: 1272.683 $\pm$ 0.685 χ^2/NDF : 2127.1/1

Left: 1280.960 $\pm$ 0.465 χ^2/NDF : 8863.4/4

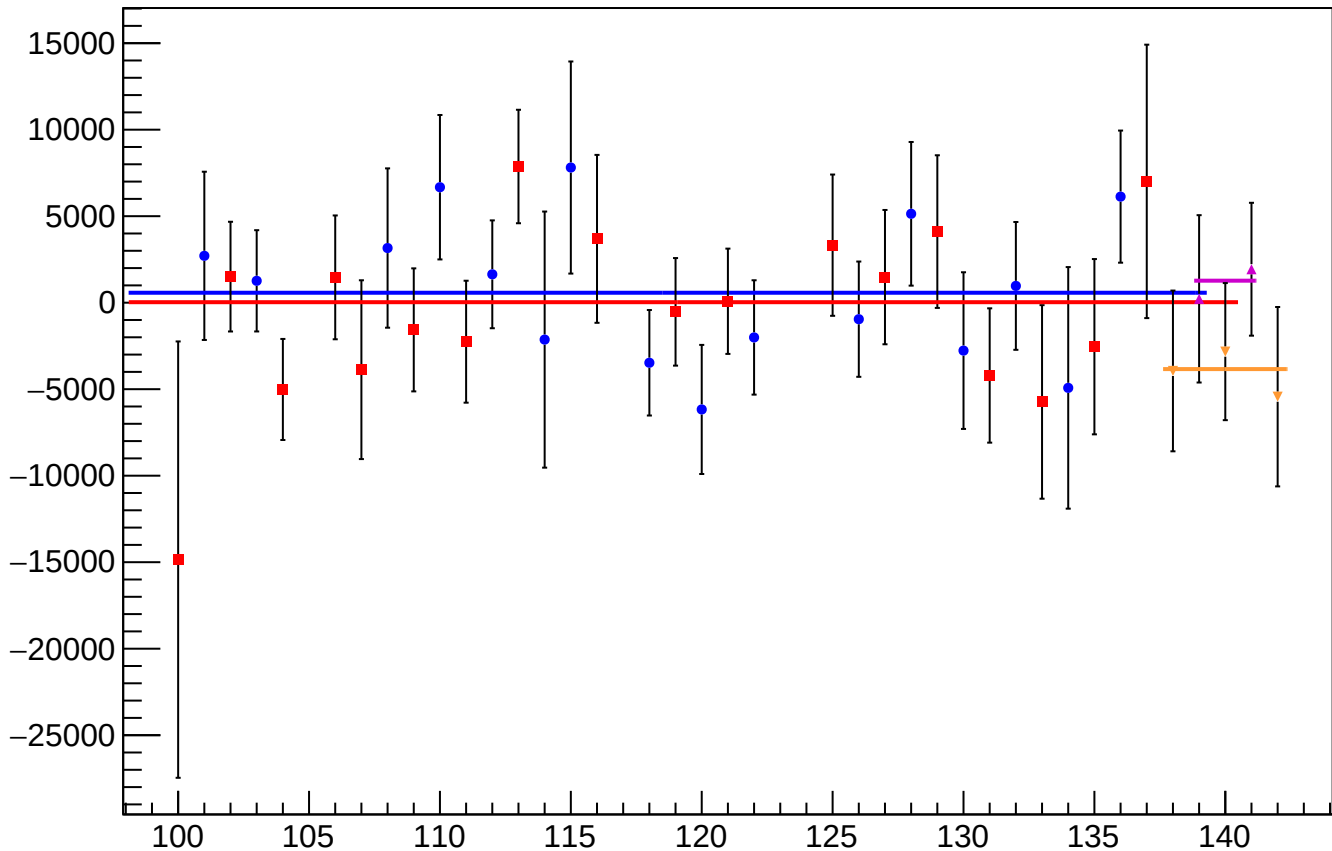
Right: 858.378 $\pm$ 0.162 χ^2/NDF : 683885.4/33

In: 905.364 $\pm$ 0.219 χ^2/NDF : 730184.0/17

Out: 902.407 $\pm$ 0.213 χ^2/NDF : 698469.1/20

All: 903.849 $\pm$ 0.153 χ^2/NDF : 1428746.9/38

asym_usl_atl2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 574.964 $\pm$ 979.856 χ^2 /NDF: 14.7/15

Left Out: -3838.045 $\pm$ 2606.092 χ^2 /NDF:0.2/2

Right Out: 28.604 $\pm$ 922.115 χ^2 /NDF: 17.2/17

Left In: 1272.185 $\pm$ 3007.418 χ^2 /NDF:0.1/1

Left: -1646.417 $\pm$ 1969.504 χ^2 /NDF: 1.9/4

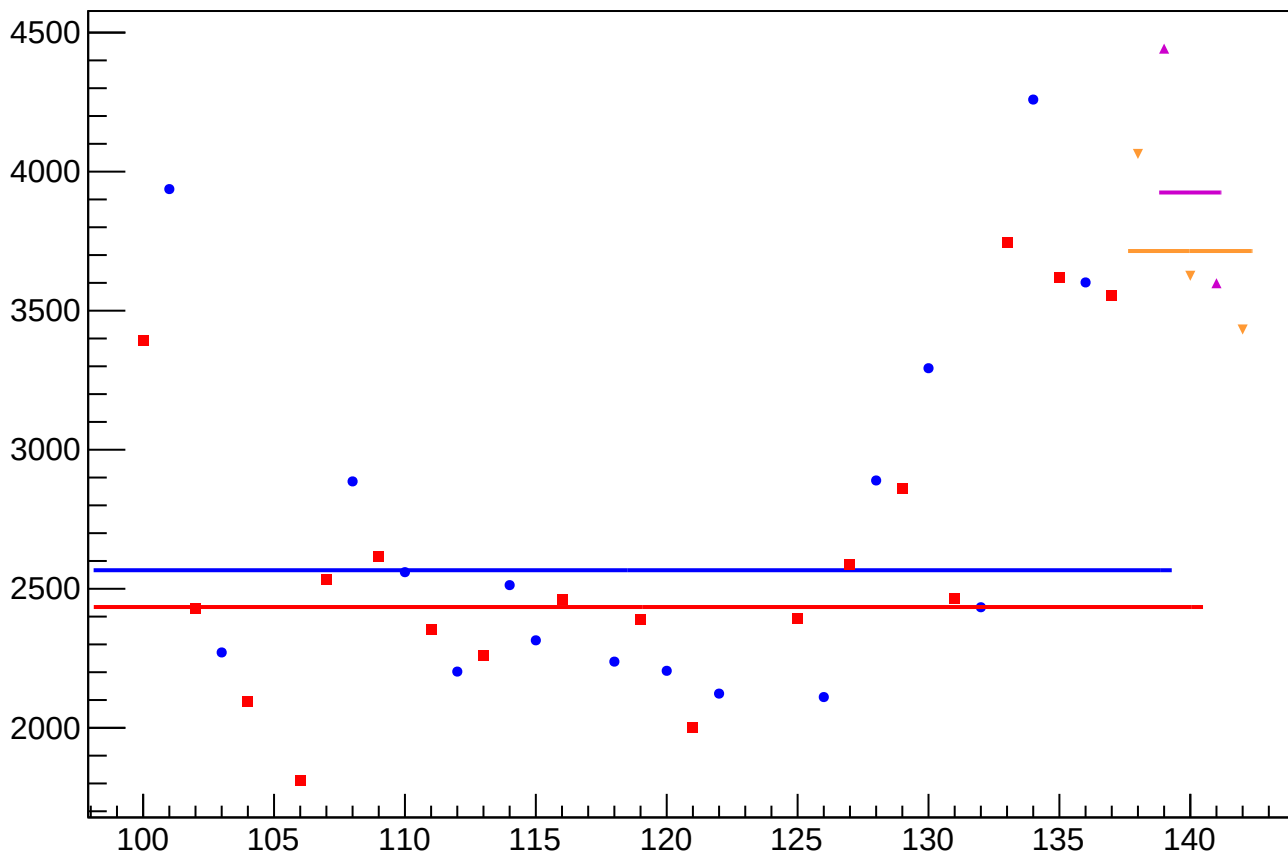
Right: 285.212 $\pm$ 671.519 χ^2 /NDF: 32.1/33

In: 641.874 $\pm$ 931.654 χ^2 /NDF:14.8/17

Out: -401.623 $\pm$ 869.303 χ^2 /NDF:19.3/20

All: 84.042 $\pm$ 635.590 χ^2 /NDF: 34.8/38

asym_usl_atl2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2566.732 $\pm$ 0.693 χ^2 /NDF: 665871.6/15

Left Out: 3714.536 $\pm$ 1.843 χ^2 /NDF:18228.7/2

Right Out: 2434.430 $\pm$ 0.652 χ^2 /NDF: 434078.9/17

Left In: 3924.949 $\pm$ 2.127 χ^2 /NDF:37314.3/1

Left: 3804.776 $\pm$ 1.393 χ^2 /NDF: 61134.4/4

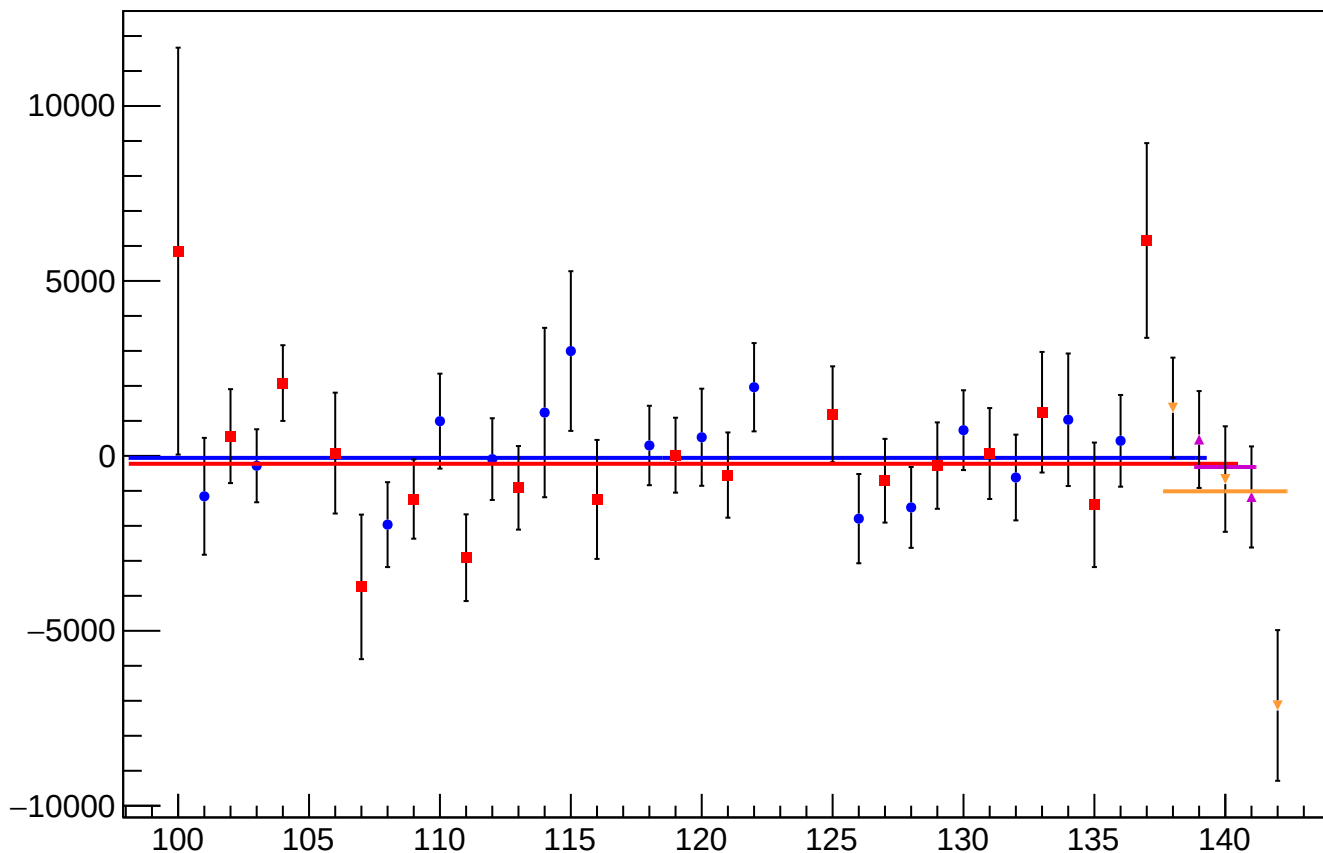
Right: 2496.568 $\pm$ 0.475 χ^2 /NDF: 1119287.3/33

In: 2697.076 $\pm$ 0.659 χ^2 /NDF:1071964.0/17

Out: 2576.862 $\pm$ 0.615 χ^2 /NDF:881166.1/20

All: 2632.812 $\pm$ 0.449 χ^2 /NDF: 1970931.0/38

dit_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -57.208 ± 330.088 χ^2/NDF : 13.0/15

Left Out: -1012.327 ± 935.164 χ^2/NDF : 10.9/2

Right Out: -226.075 ± 328.069 χ^2/NDF : 22.9/17

Left In: -318.081 ± 999.569 χ^2/NDF : 0.7/1

Left: -688.289 ± 682.895 χ^2/NDF : 11.9/4

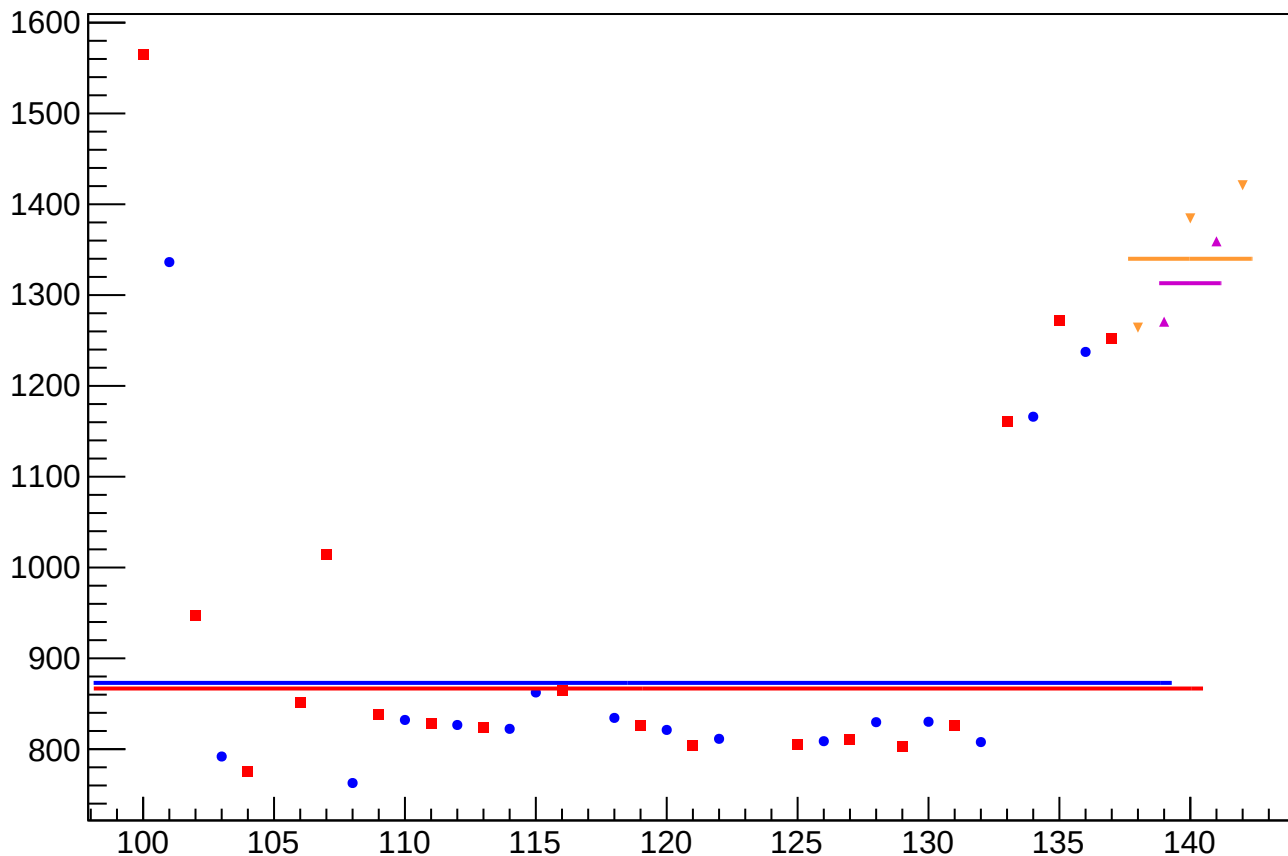
Right: -142.159 ± 232.690 χ^2/NDF : 36.0/33

In: -82.859 ± 313.439 χ^2/NDF : 13.7/17

Out: -312.235 ± 309.572 χ^2/NDF : 34.5/20

All: -198.971 ± 220.255 χ^2/NDF : 48.5/38

dit_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 872.971+/-0.233 χ^2/NDF : 417099.2/15

Left Out: 1339.983+/-0.661 χ^2/NDF :10180.7/2

Right Out: 866.772+/-0.232 χ^2/NDF : 290386.4/17

Left In: 1313.081+/-0.707 χ^2/NDF :3911.4/1

Left: 1327.427+/-0.483 χ^2/NDF : 14864.6/4

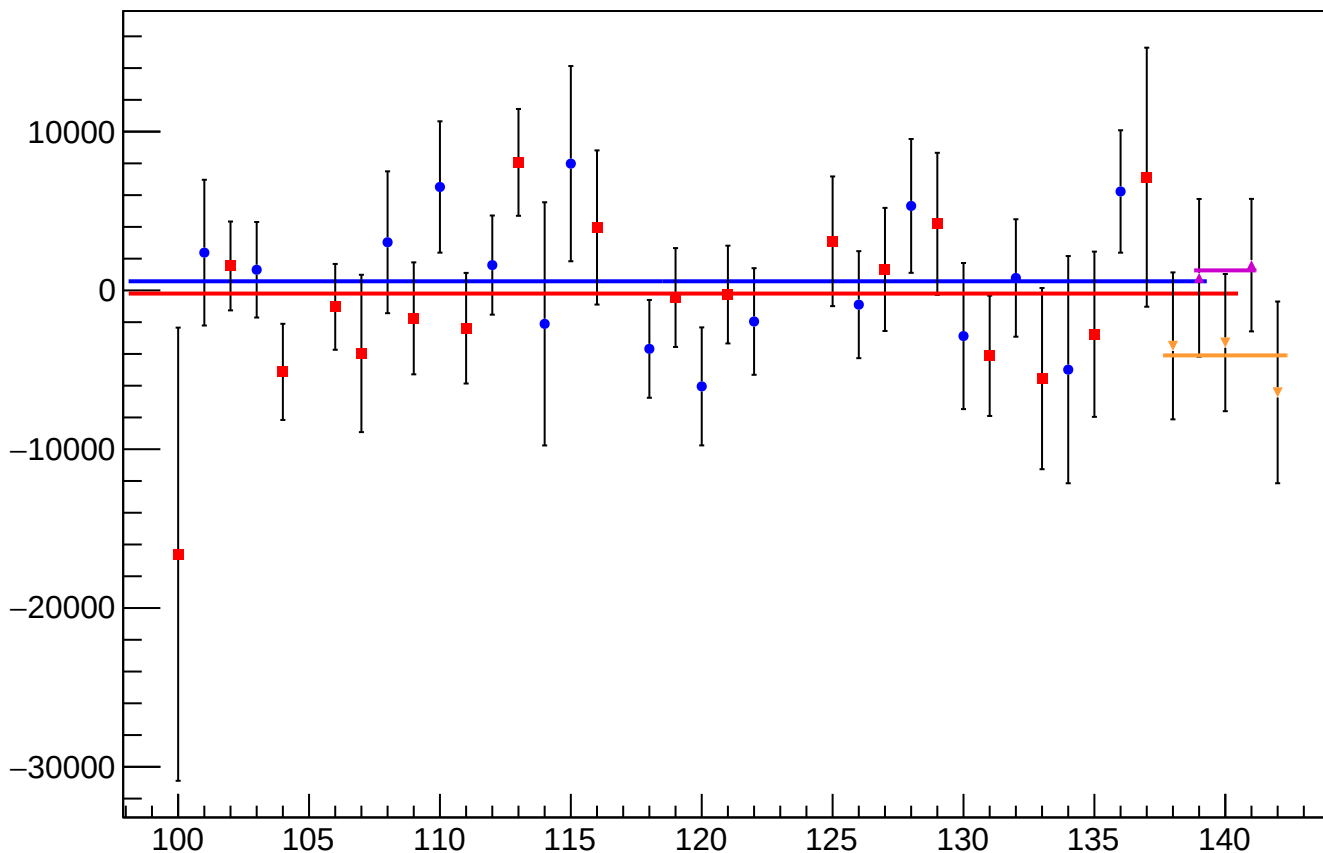
Right: 869.850+/-0.164 χ^2/NDF : 707840.8/33

In: 916.247+/-0.222 χ^2/NDF :770613.0/17

Out: 918.537+/-0.219 χ^2/NDF :756658.4/20

All: 917.407+/-0.156 χ^2/NDF : 1527325.5/38

asym_usl_atl2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 575.271+/-984.888 χ^2/NDF : 14.7/15

Left Out: -4091.382+/-2764.309 χ^2/NDF : 0.2/2

Right Out: -197.953+/-894.121 χ^2/NDF : 17.2/17

Left In: 1261.607+/-3194.469 χ^2/NDF : 0.0/1

Left: -1799.313+/-2090.328 χ^2/NDF : 1.8/4

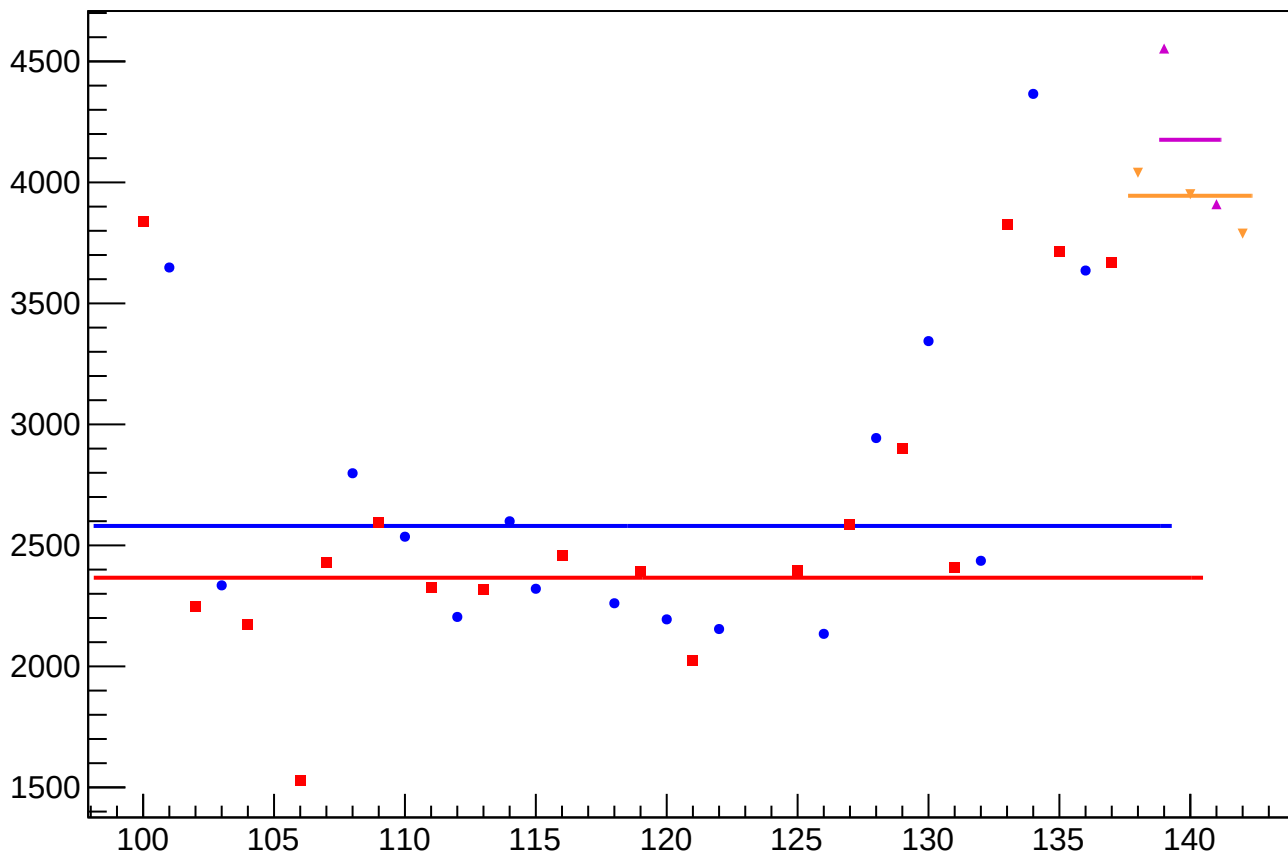
Right: 151.395+/-662.008 χ^2/NDF : 32.2/33

In: 634.848+/-941.172 χ^2/NDF : 14.8/17

Out: -566.709+/-850.726 χ^2/NDF : 19.2/20

All: -26.425+/-631.114 χ^2/NDF : 34.8/38

asym_usl_atl2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2580.377+/-0.696 χ^2/NDF : 617156.1/15

Left Out: 3944.805+/-1.955 χ^2/NDF : 2345.2/2

Right Out: 2366.412+/-0.632 χ^2/NDF : 611695.1/17

Left In: 4176.145+/-2.259 χ^2/NDF : 19674.0/1

Left: 4043.861+/-1.478 χ^2/NDF : 28017.0/4

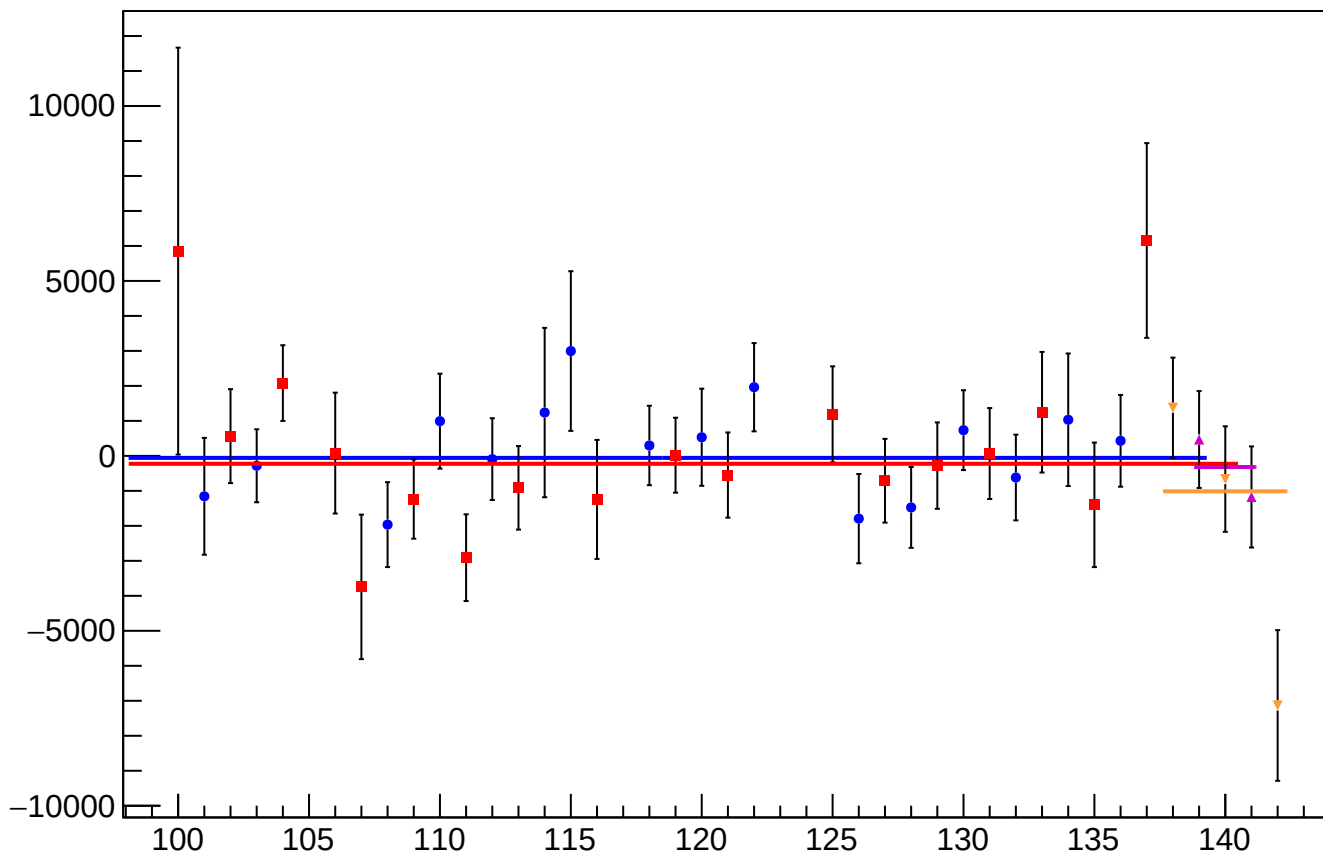
Right: 2463.083+/-0.468 χ^2/NDF : 1280596.8/33

In: 2718.896+/-0.666 χ^2/NDF : 1092589.8/17

Out: 2515.905+/-0.602 χ^2/NDF : 1204341.1/20

All: 2607.181+/-0.446 χ^2/NDF : 2348132.1/38

eigen_dit_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -57.211 ± 330.088 χ^2/NDF : 13.0/15

Left Out: -1012.338 ± 935.164 χ^2/NDF : 10.9/2

Right Out: -226.078 ± 328.069 χ^2/NDF : 22.9/17

Left In: -318.079 ± 999.570 χ^2/NDF : 0.7/1

Left: -688.294 ± 682.896 χ^2/NDF : 11.9/4

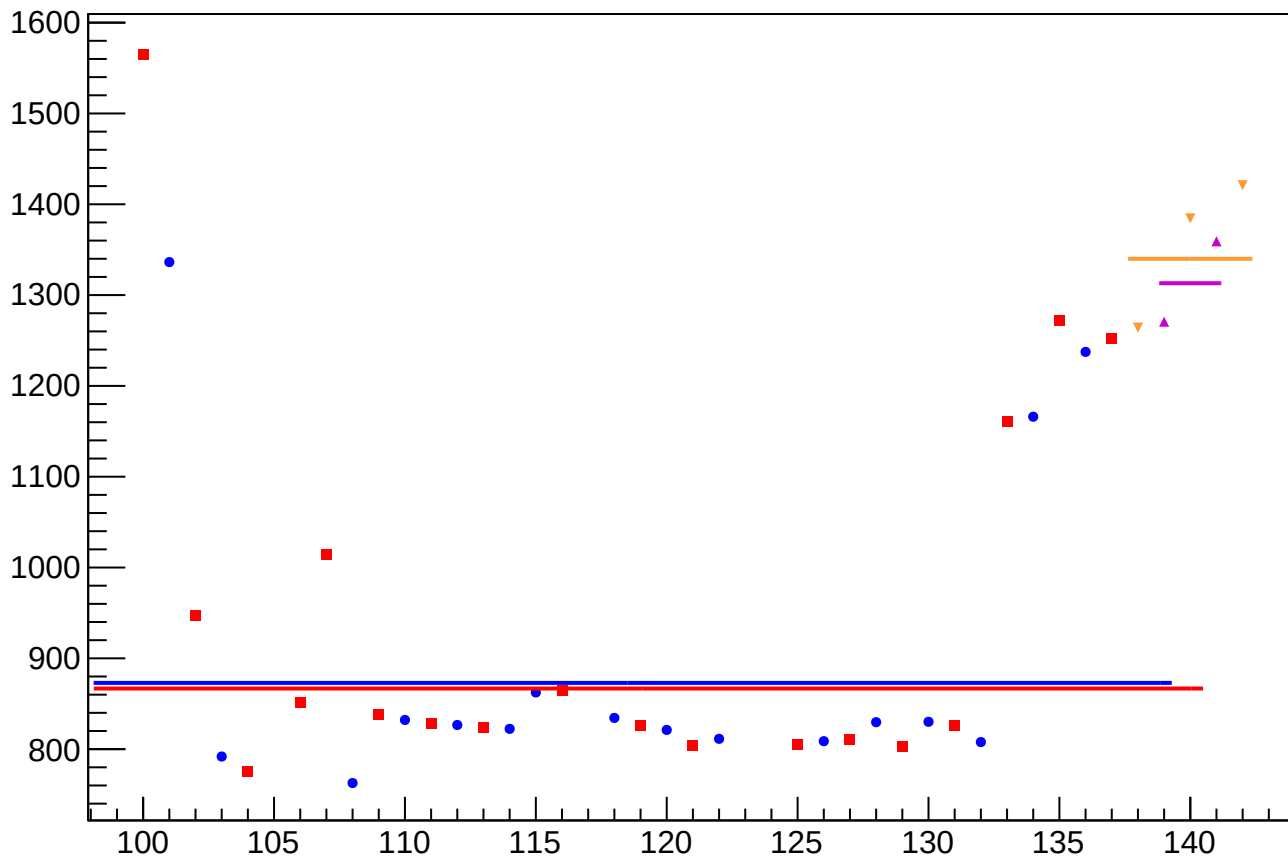
Right: -142.162 ± 232.690 χ^2/NDF : 36.0/33

In: -82.862 ± 313.439 χ^2/NDF : 13.7/17

Out: -312.239 ± 309.572 χ^2/NDF : 34.5/20

All: -198.974 ± 220.255 χ^2/NDF : 48.5/38

eigen_dit_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 872.972 $\pm$ 0.233 χ^2 /NDF: 417098.9/15

Left Out: 1339.984 $\pm$ 0.661 χ^2 /NDF:10181.0/2

Right Out: 866.772 $\pm$ 0.232 χ^2 /NDF: 290386.6/17

Left In: 1313.082 $\pm$ 0.707 χ^2 /NDF:3911.4/1

Left: 1327.428 $\pm$ 0.483 χ^2 /NDF: 14864.9/4

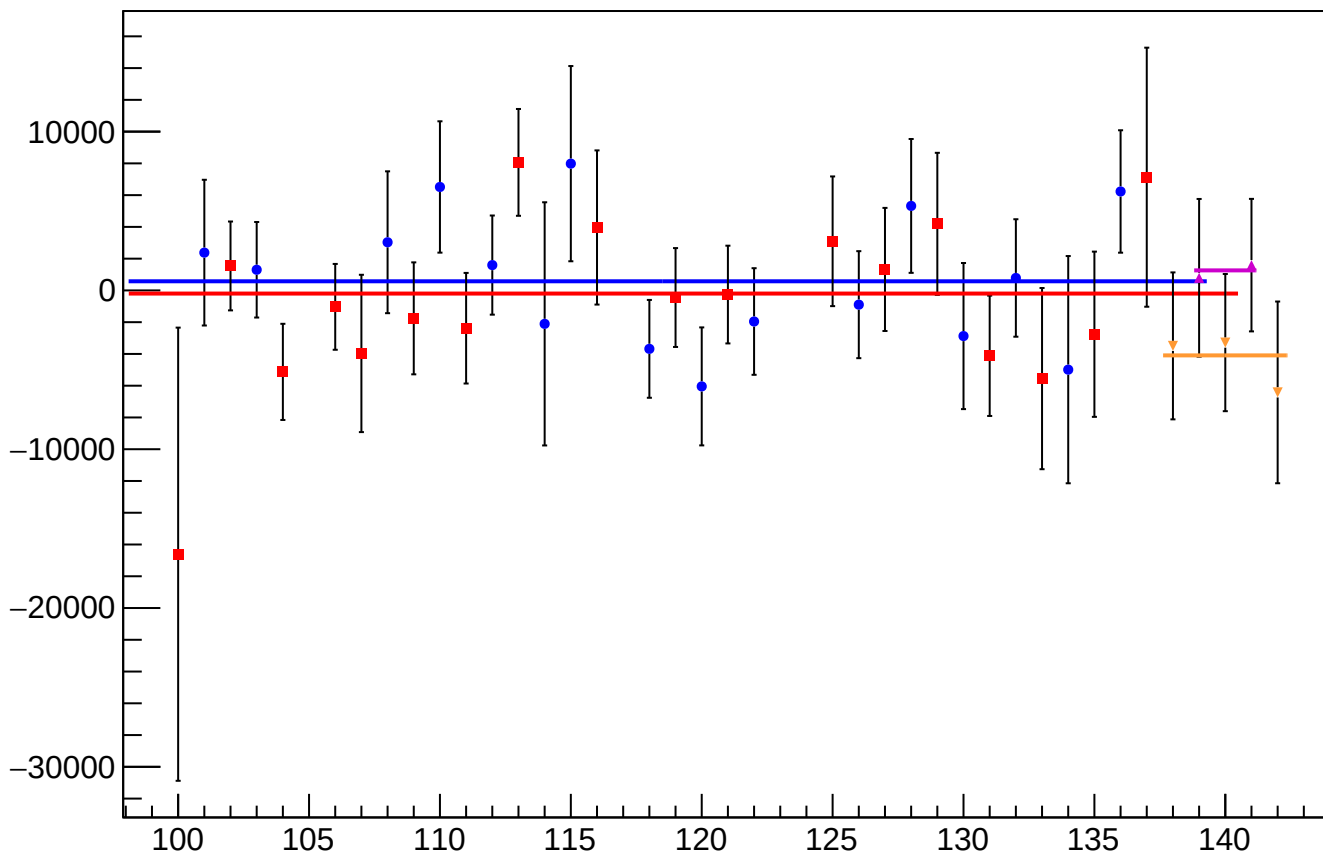
Right: 869.850 $\pm$ 0.164 χ^2 /NDF: 707840.8/33

In: 916.247 $\pm$ 0.222 χ^2 /NDF:770614.1/17

Out: 918.537 $\pm$ 0.219 χ^2 /NDF:756660.2/20

All: 917.407 $\pm$ 0.156 χ^2 /NDF: 1527328.4/38

asym_usl_atl2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 575.266+/-984.885 χ^2/NDF : 14.7/15

Left Out: -4091.402+/-2764.318 χ^2/NDF : 0.2/2

Right Out: -197.955+/-894.119 χ^2/NDF : 17.2/17

Left In: 1261.609+/-3194.477 χ^2/NDF : 0.0/1

Left: -1799.322+/-2090.334 χ^2/NDF : 1.8/4

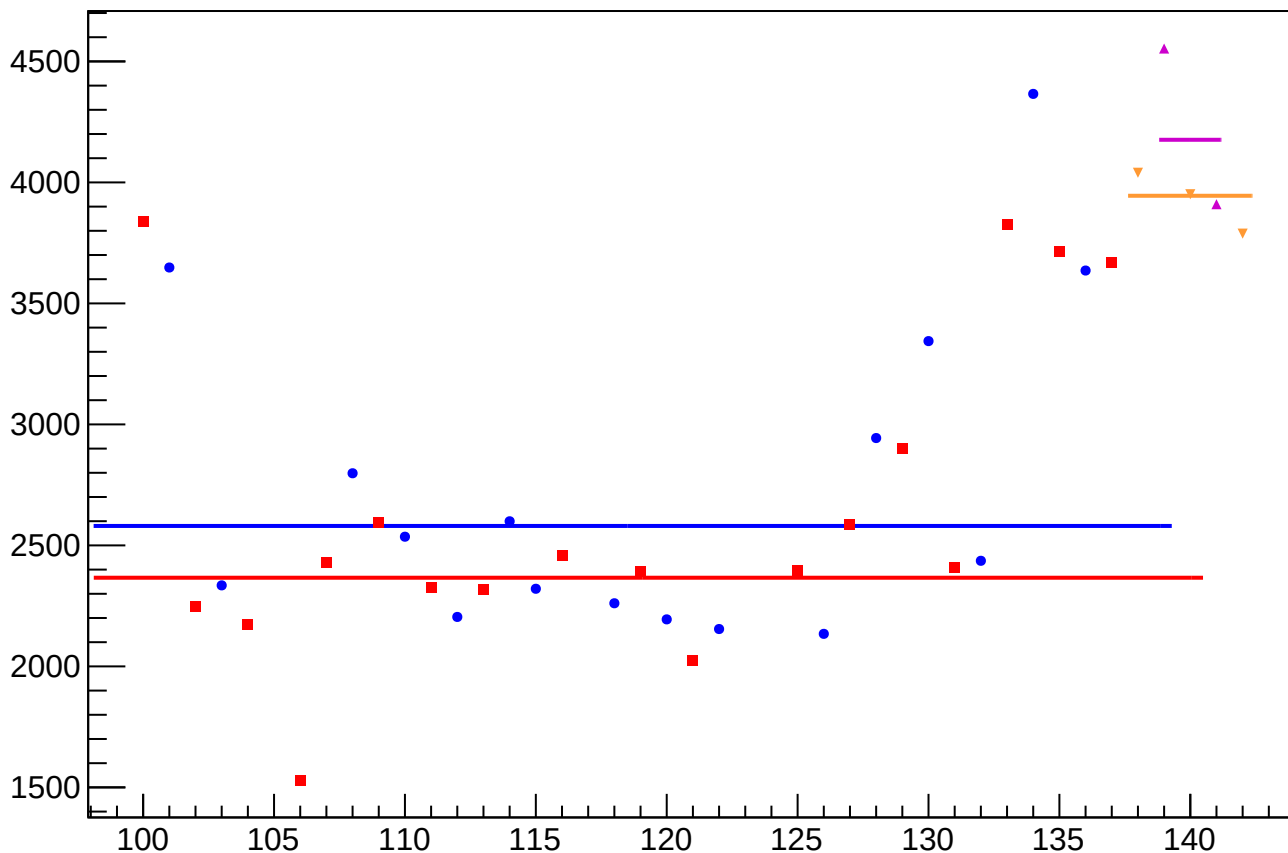
Right: 151.392+/-662.006 χ^2/NDF : 32.2/33

In: 634.843+/-941.169 χ^2/NDF : 14.8/17

Out: -566.708+/-850.724 χ^2/NDF : 19.2/20

All: -26.426+/-631.113 χ^2/NDF : 34.8/38

asym_usl_atl2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2580.368+/-0.696 χ^2/NDF : 617163.3/15

Left Out: 3944.816+/-1.955 χ^2/NDF : 2345.2/2

Right Out: 2366.405+/-0.632 χ^2/NDF : 611698.8/17

Left In: 4176.154+/-2.259 χ^2/NDF : 19674.7/1

Left: 4043.872+/-1.478 χ^2/NDF : 28017.6/4

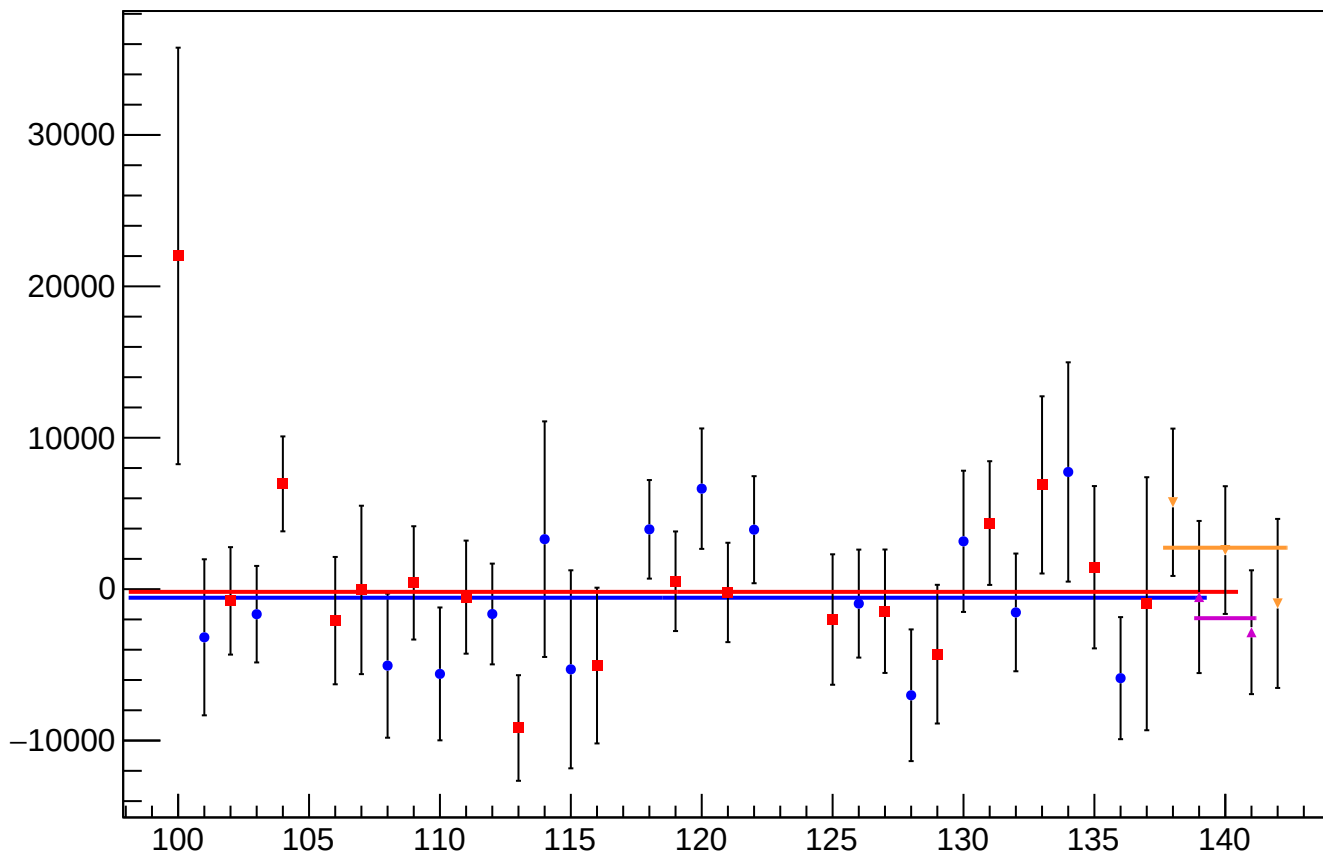
Right: 2463.075+/-0.468 χ^2/NDF : 1280607.2/33

In: 2718.888+/-0.666 χ^2/NDF : 1092606.3/17

Out: 2515.899+/-0.602 χ^2/NDF : 1204355.7/20

All: 2607.173+/-0.446 χ^2/NDF : 2348162.7/38

asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -566.096+/-1040.314 χ^2/NDF : 16.2/15

Left Out: 2736.747+/-2767.981 χ^2/NDF : 0.8/2

Right Out: -178.586+/-988.392 χ^2/NDF : 19.5/17

Left In: -1917.423+/-3171.590 χ^2/NDF : 0.1/1

Left: 724.471+/-2085.449 χ^2/NDF : 2.2/4

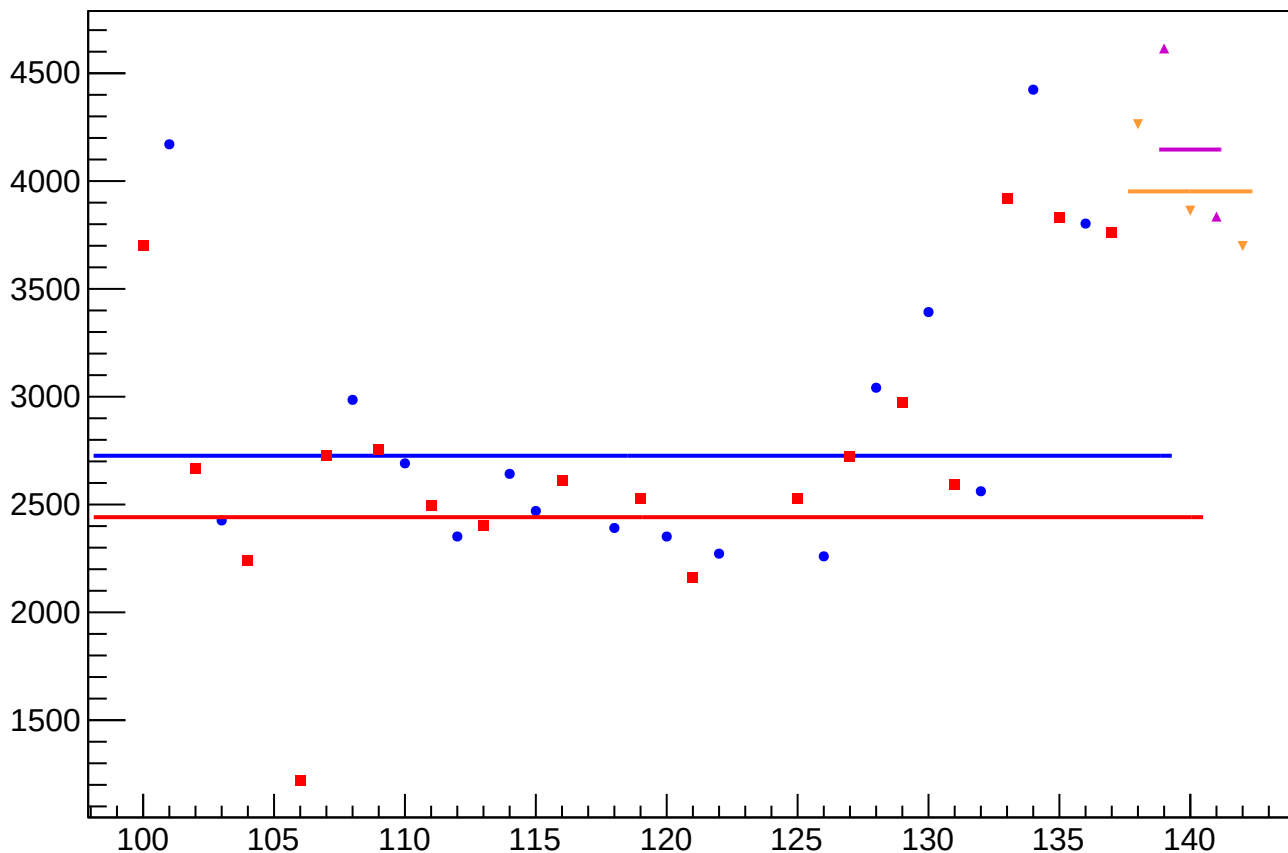
Right: -362.430+/-716.551 χ^2/NDF : 35.8/33

In: -697.363+/-988.495 χ^2/NDF : 16.5/17

Out: 151.101+/-930.829 χ^2/NDF : 21.3/20

All: -247.662+/-677.665 χ^2/NDF : 38.2/38

asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 2726.231+/-0.736 χ^2/NDF : 623079.8/15

Left Out: 3952.189+/-1.957 χ^2/NDF : 13214.6/2

Right Out: 2441.363+/-0.667 χ^2/NDF : 891132.7/17

Left In: 4146.221+/-2.243 χ^2/NDF : 28962.0/1

Left: 4036.081+/-1.475 χ^2/NDF : 46425.7/4

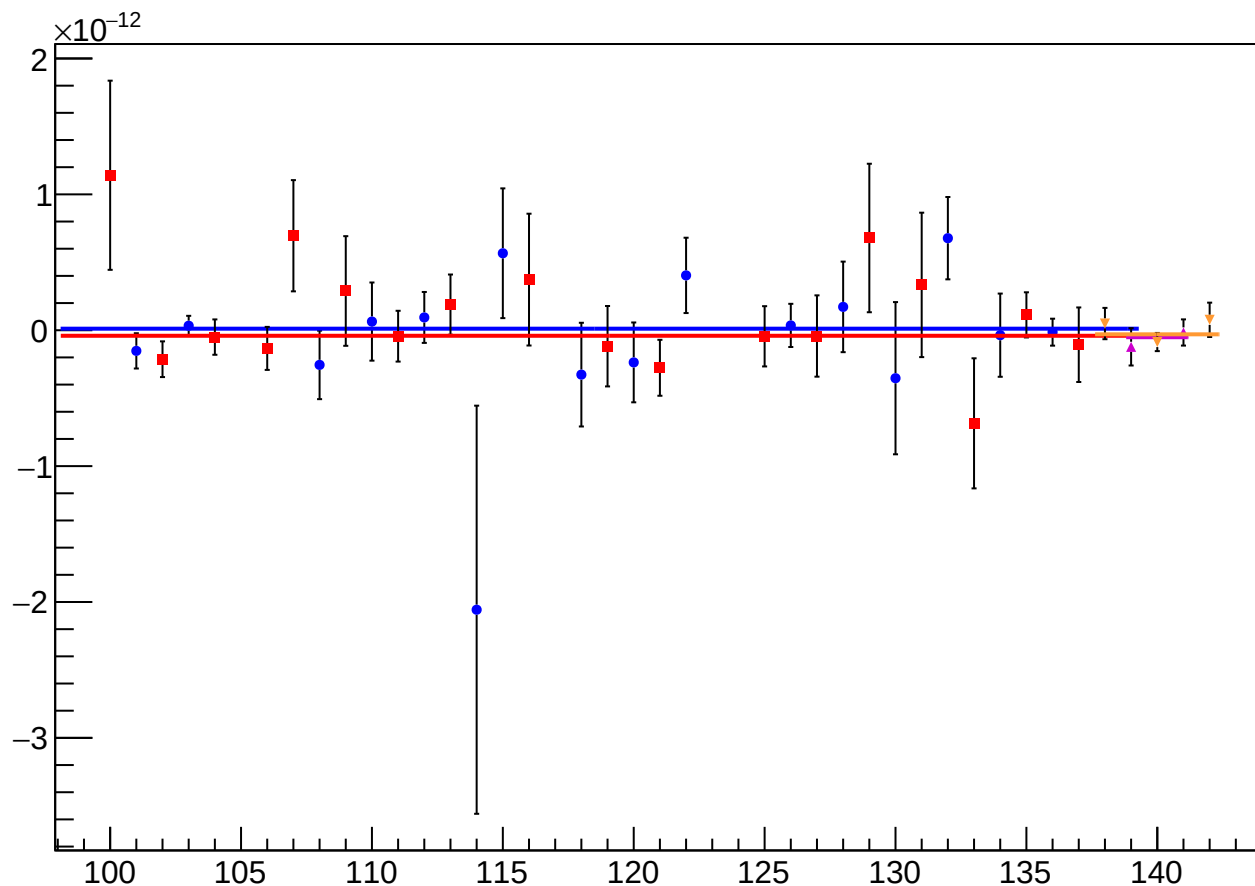
Right: 2569.883+/-0.494 χ^2/NDF : 1596520.0/33

In: 2864.168+/-0.699 χ^2/NDF : 1014007.3/17

Out: 2598.539+/-0.631 χ^2/NDF : 1438204.3/20

All: 2717.875+/-0.468 χ^2/NDF : 2531750.7/38

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 17.0/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.4/1

Left: -0.000+/-0.000 χ^2/NDF : 2.4/4

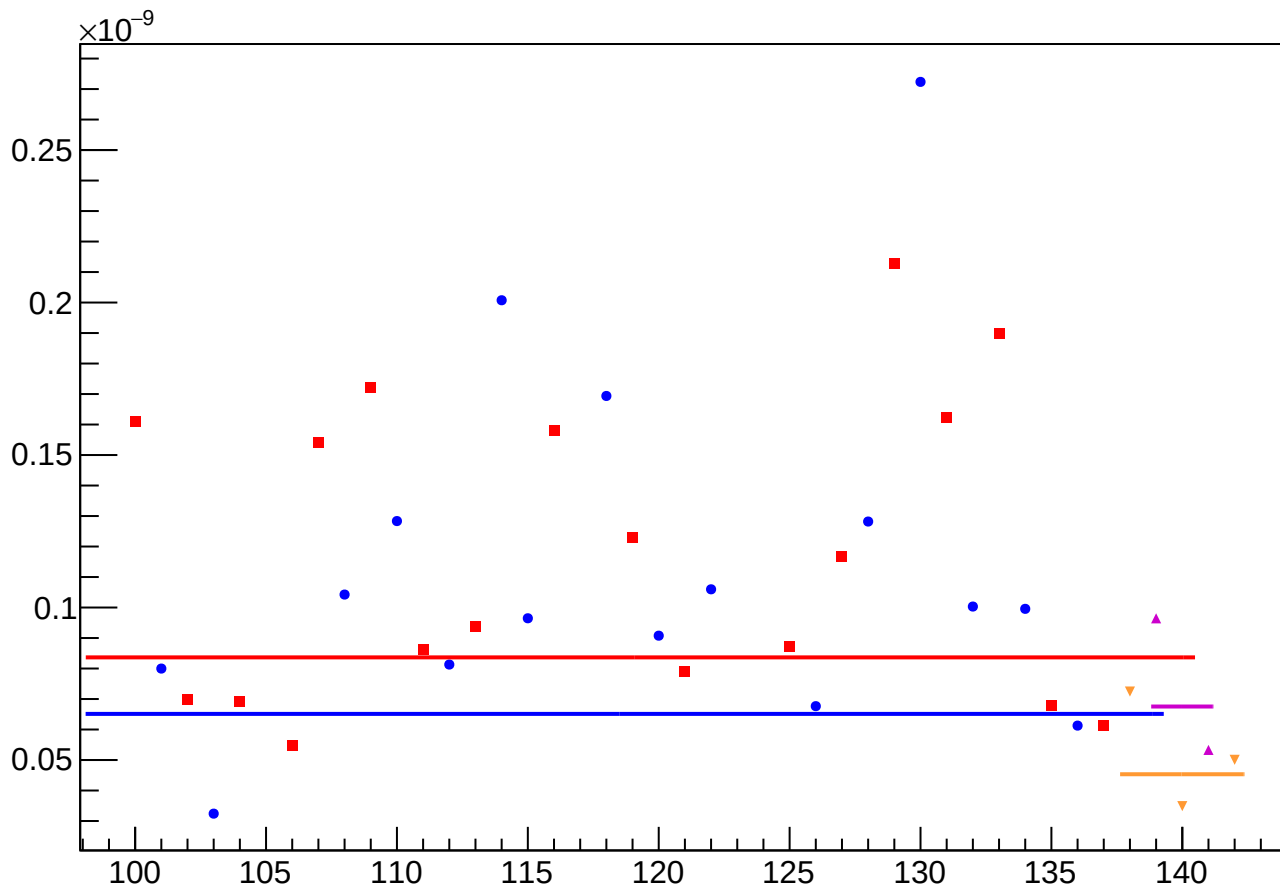
Right: -0.000+/-0.000 χ^2/NDF : 32.9/33

In: -0.000+/-0.000 χ^2/NDF : 16.2/17

Out: -0.000+/-0.000 χ^2/NDF : 18.9/20

All: -0.000+/-0.000 χ^2/NDF : 35.5/38

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1222613.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 162386.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 691494.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 132148.1/1

Left: 0.000+/-0.000 χ^2/NDF : 404200.5/4

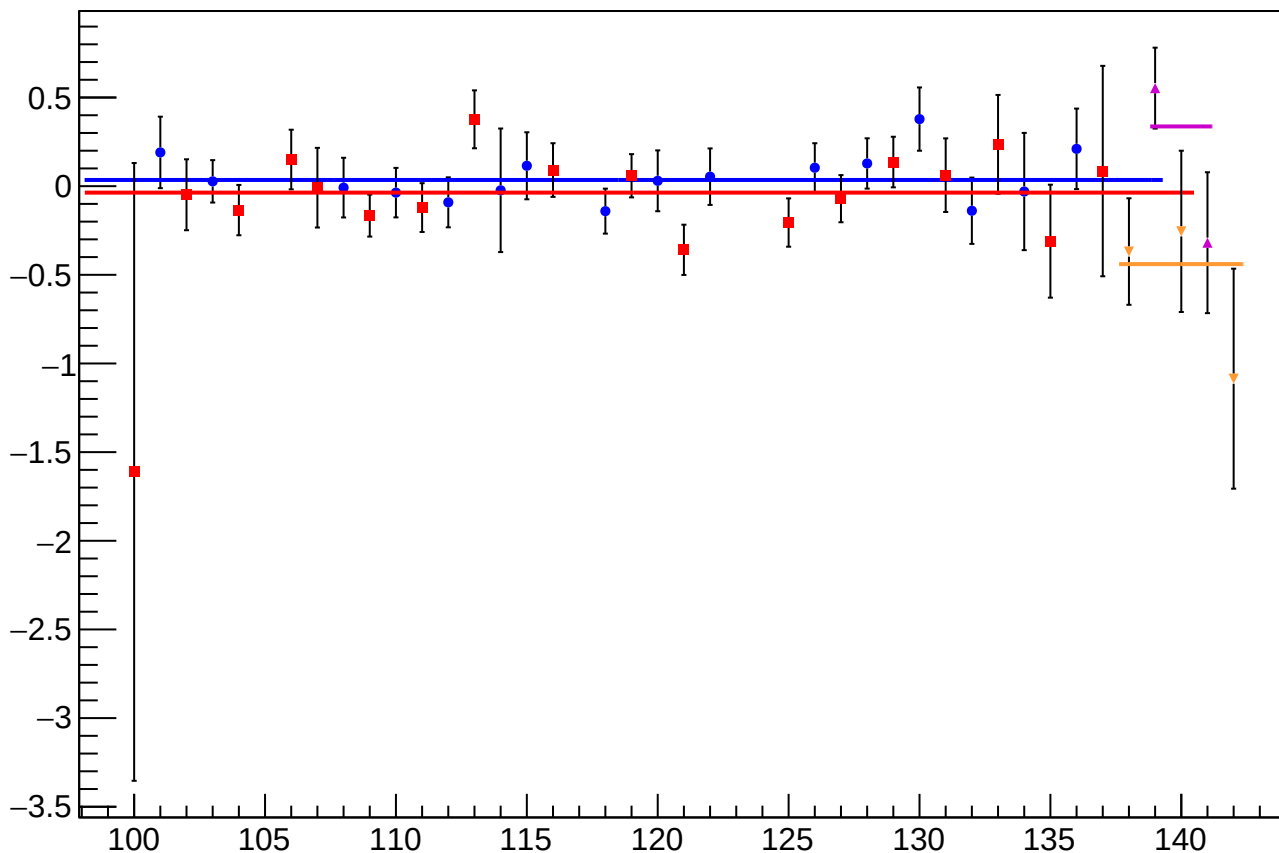
Right: 0.000+/-0.000 χ^2/NDF : 2057625.5/33

In: 0.000+/-0.000 χ^2/NDF : 1356193.4/17

Out: 0.000+/-0.000 χ^2/NDF : 1377254.7/20

All: 0.000+/-0.000 χ^2/NDF : 2734942.9/38

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.041 $\chi^2/\text{NDF}: 9.8/15$

Left Out: -0.440 ± 0.232 $\chi^2/\text{NDF}: 1.3/2$

Right Out: -0.036 ± 0.039 $\chi^2/\text{NDF}: 22.0/17$

Left In: 0.337 ± 0.198 $\chi^2/\text{NDF}: 3.6/1$

Left: 0.011 ± 0.151 $\chi^2/\text{NDF}: 11.4/4$

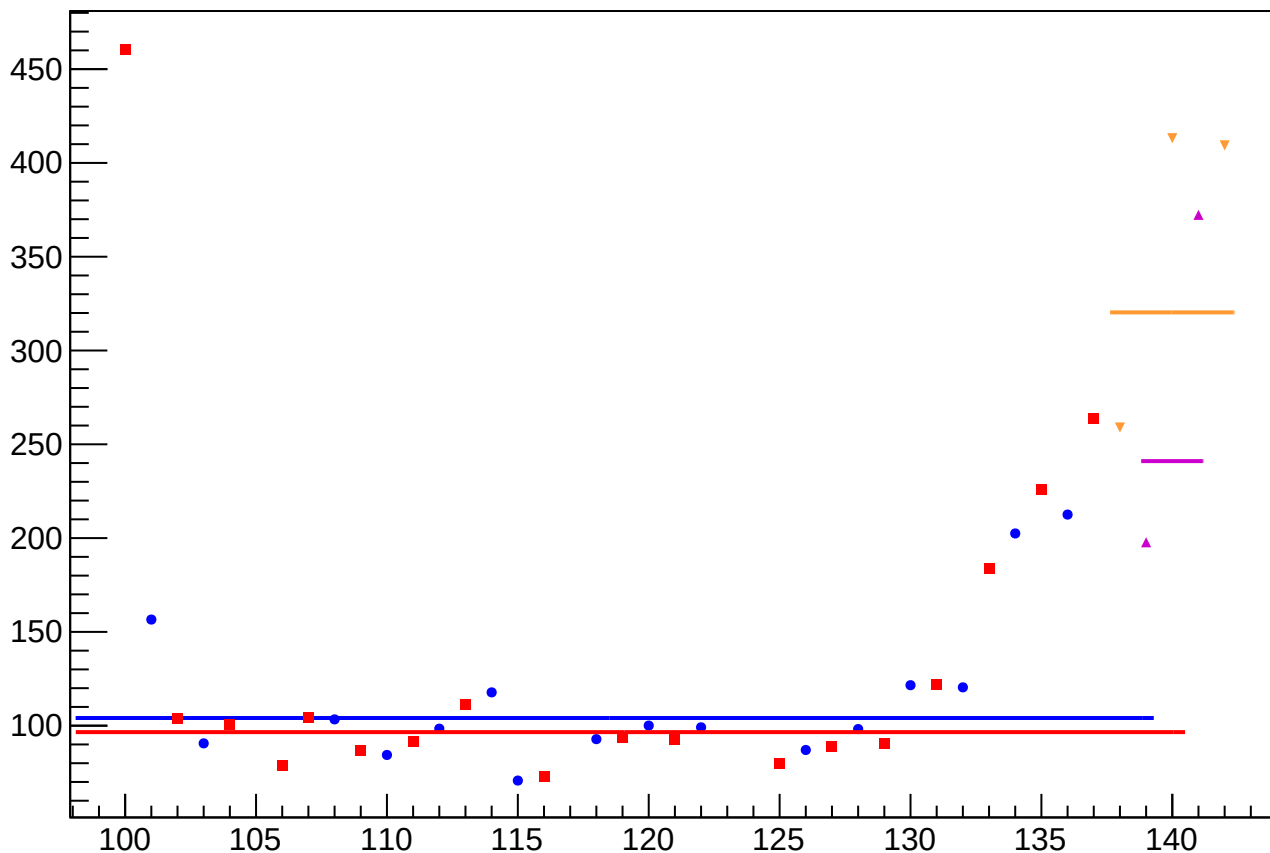
Right: -0.003 ± 0.028 $\chi^2/\text{NDF}: 33.4/33$

In: 0.047 ± 0.040 $\chi^2/\text{NDF}: 15.6/17$

Out: -0.047 ± 0.038 $\chi^2/\text{NDF}: 26.3/20$

All: -0.002 ± 0.028 $\chi^2/\text{NDF}: 44.8/38$

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 104.099+/-0.029 χ^2/NDF : 989856.1/15

Left Out: 320.322+/-0.164 χ^2/NDF : 208087.4/2

Right Out: 96.569+/-0.028 χ^2/NDF : 955547.2/17

Left In: 241.042+/-0.140 χ^2/NDF : 290247.1/1

Left: 274.357+/-0.107 χ^2/NDF : 633304.7/4

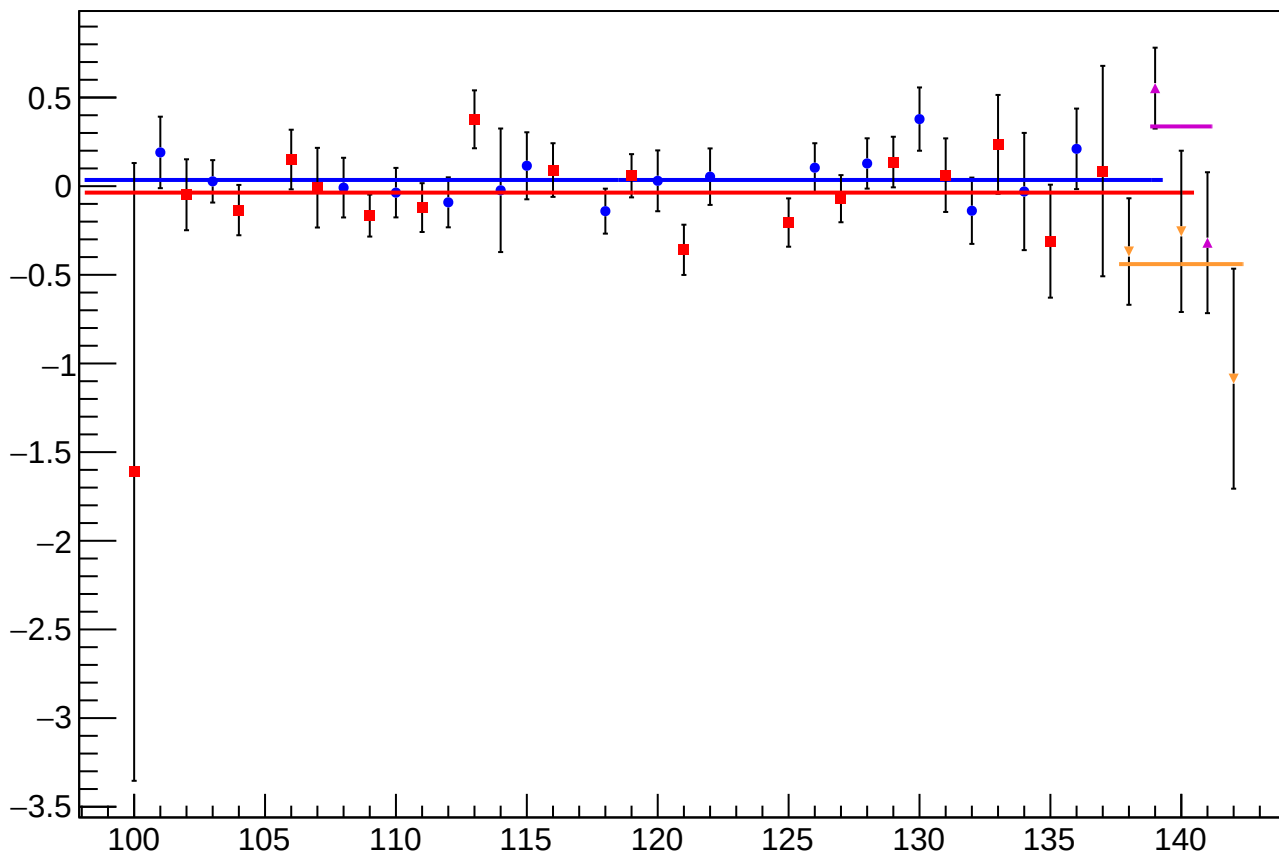
Right: 100.134+/-0.020 χ^2/NDF : 1980876.5/33

In: 109.747+/-0.028 χ^2/NDF : 2198927.0/17

Out: 102.668+/-0.027 χ^2/NDF : 2967410.3/20

All: 106.045+/-0.020 χ^2/NDF : 5198809.0/38

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.041 $\chi^2/\text{NDF}: 9.8/15$

Left Out: -0.440 ± 0.232 $\chi^2/\text{NDF}: 1.3/2$

Right Out: -0.036 ± 0.039 $\chi^2/\text{NDF}: 22.0/17$

Left In: 0.337 ± 0.198 $\chi^2/\text{NDF}: 3.6/1$

Left: 0.011 ± 0.151 $\chi^2/\text{NDF}: 11.4/4$

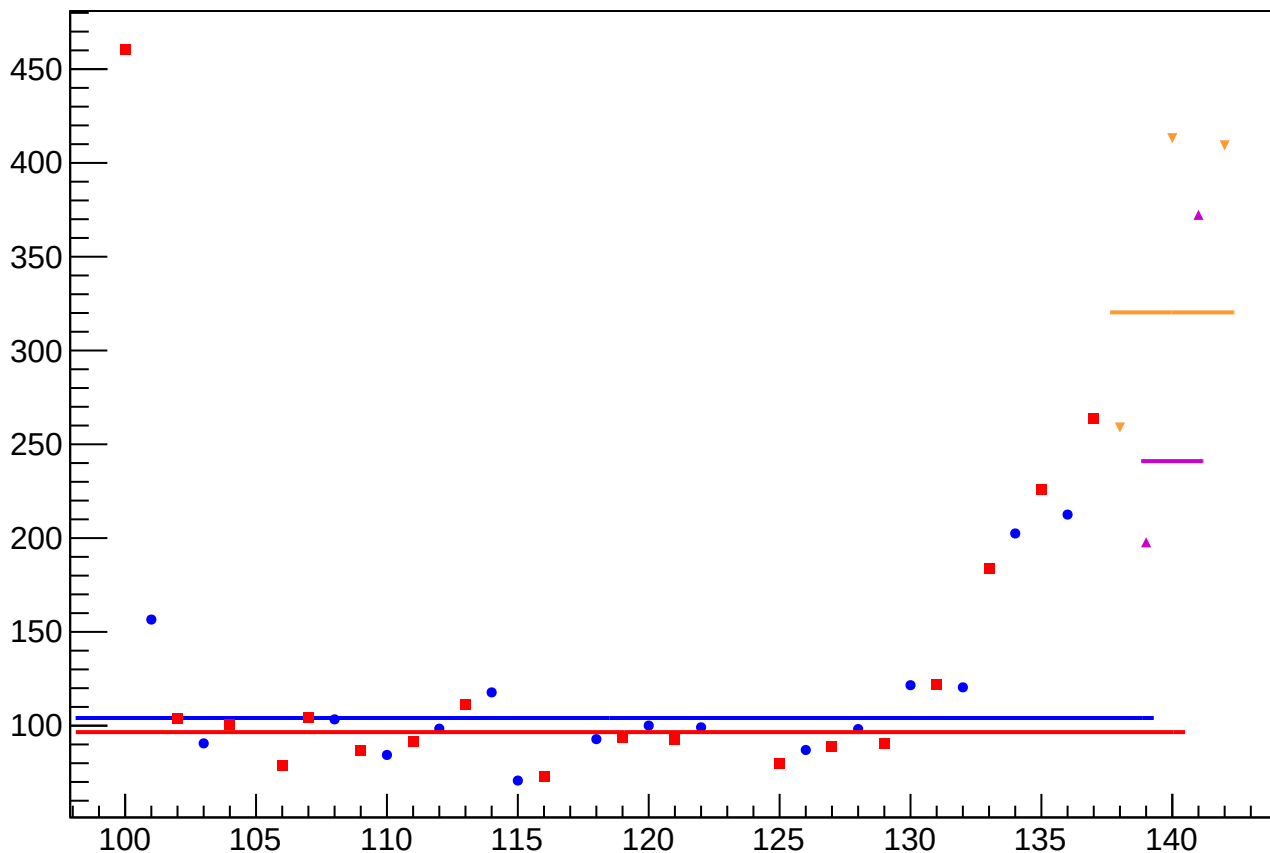
Right: -0.003 ± 0.028 $\chi^2/\text{NDF}: 33.4/33$

In: 0.047 ± 0.040 $\chi^2/\text{NDF}: 15.6/17$

Out: -0.047 ± 0.038 $\chi^2/\text{NDF}: 26.3/20$

All: -0.002 ± 0.028 $\chi^2/\text{NDF}: 44.8/38$

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 104.099+/-0.029 χ^2/NDF : 989856.1/15

Left Out: 320.322+/-0.164 χ^2/NDF : 208087.4/2

Right Out: 96.569+/-0.028 χ^2/NDF : 955547.2/17

Left In: 241.042+/-0.140 χ^2/NDF : 290247.1/1

Left: 274.357+/-0.107 χ^2/NDF : 633304.7/4

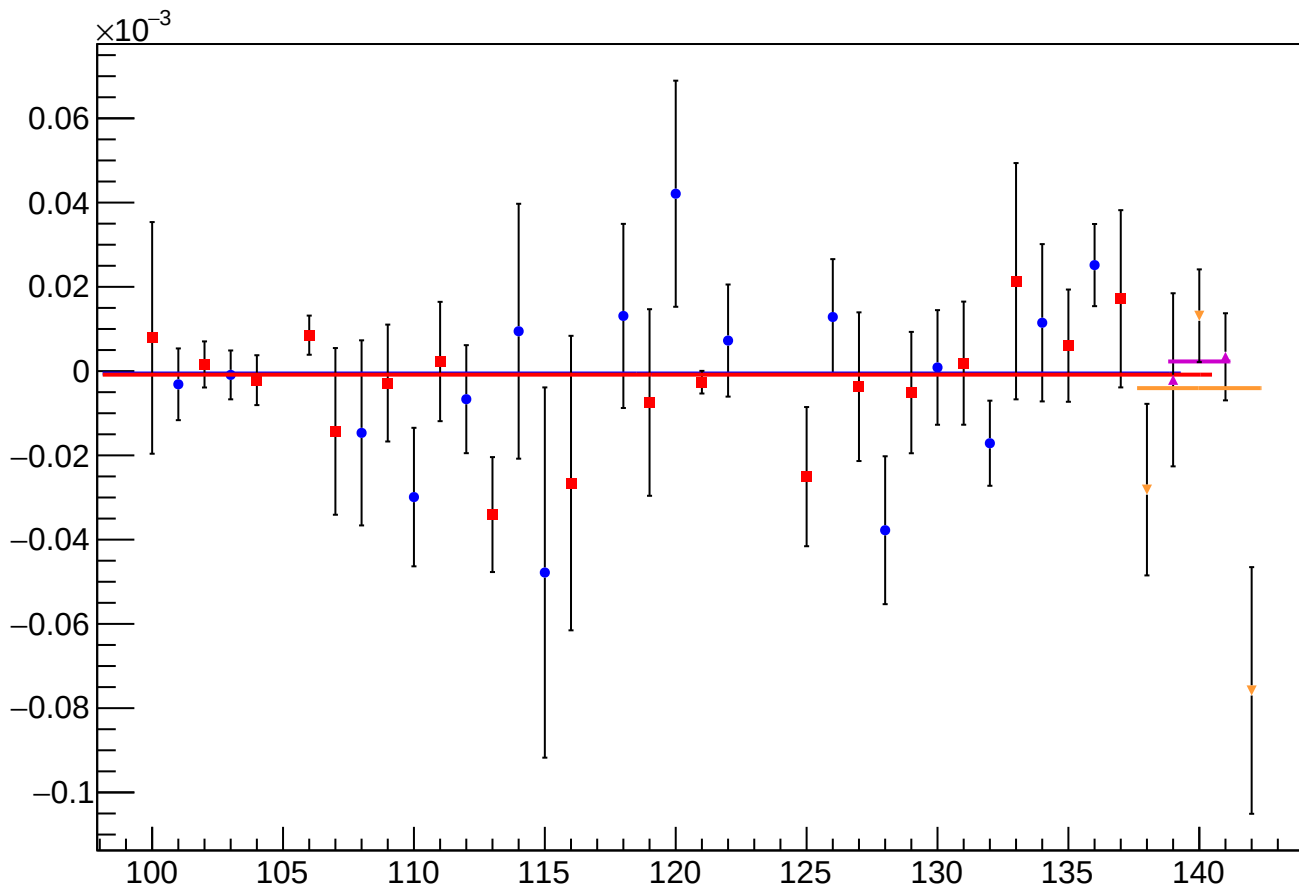
Right: 100.134+/-0.020 χ^2/NDF : 1980876.5/33

In: 109.747+/-0.028 χ^2/NDF : 2198927.0/17

Out: 102.668+/-0.027 χ^2/NDF : 2967410.3/20

All: 106.045+/-0.020 χ^2/NDF : 5198809.0/38

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 24.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 9.8/2

Right Out: -0.000+/-0.000 χ^2/NDF : 15.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.1/1

Left: -0.000+/-0.000 χ^2/NDF : 10.1/4

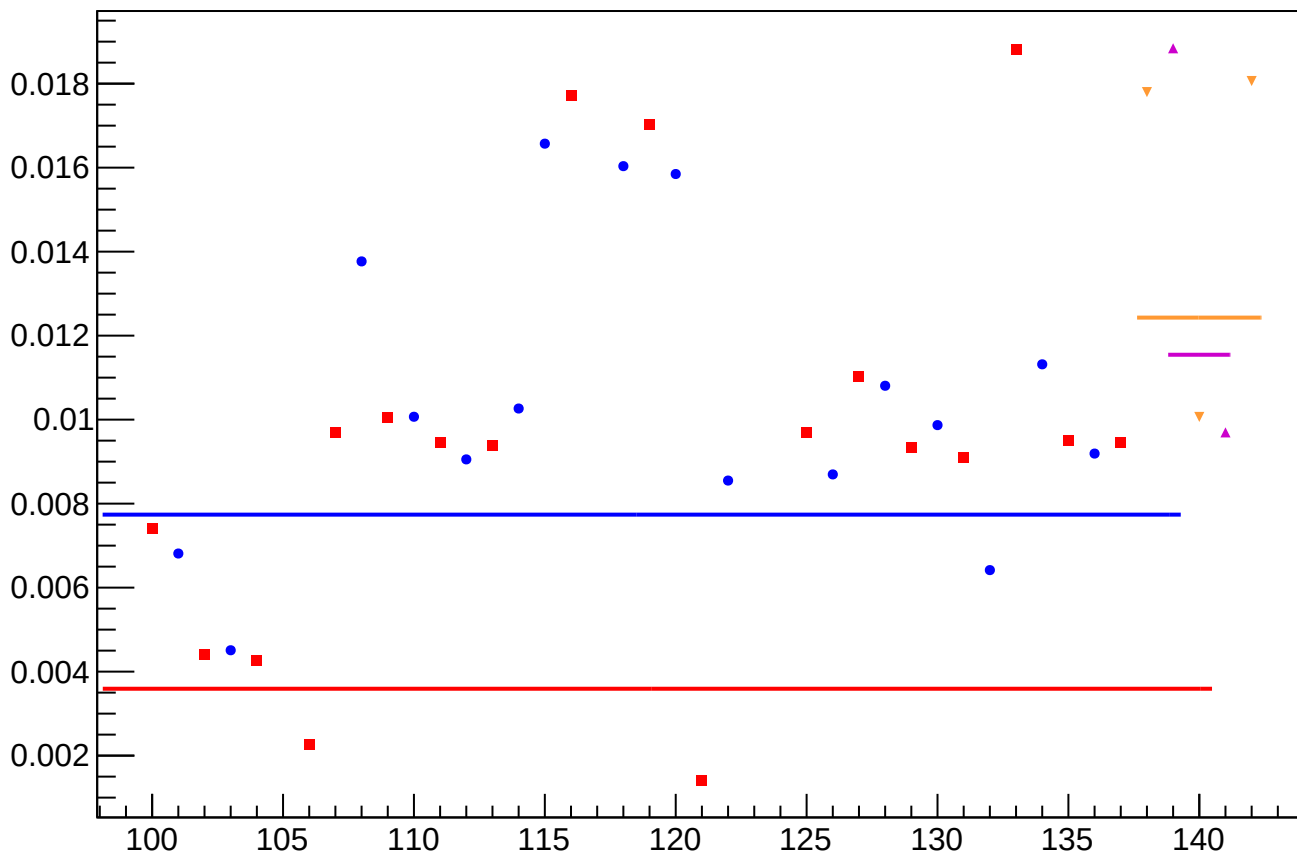
Right: -0.000+/-0.000 χ^2/NDF : 39.8/33

In: -0.000+/-0.000 χ^2/NDF : 24.1/17

Out: -0.000+/-0.000 χ^2/NDF : 25.8/20

All: -0.000+/-0.000 χ^2/NDF : 50.0/38

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1701473.5/15

Left Out: 0.012+/-0.000 χ^2/NDF :305485.7/2

Right Out: 0.004+/-0.000 χ^2/NDF : 6364883.4/17

Left In: 0.012+/-0.000 χ^2/NDF :316237.6/1

Left: 0.012+/-0.000 χ^2/NDF : 630937.6/4

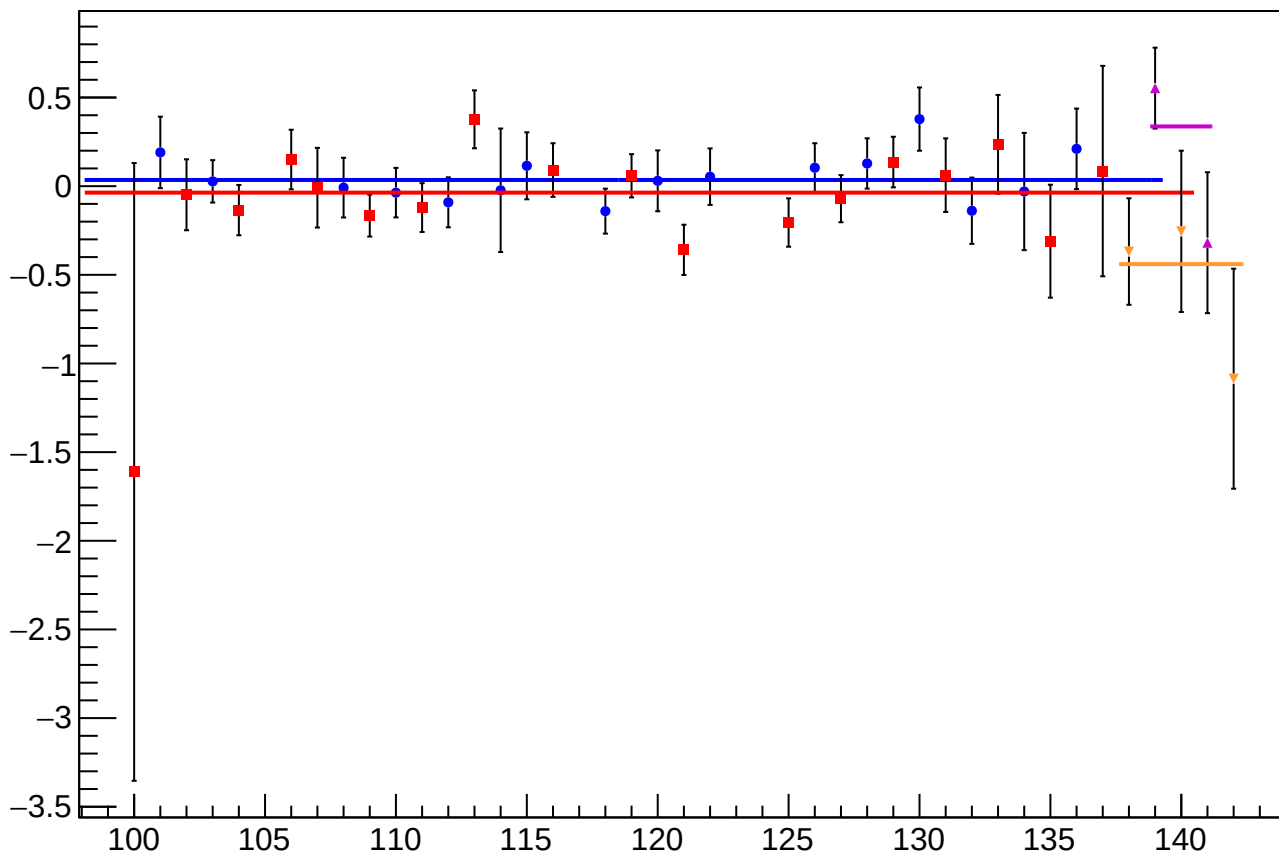
Right: 0.005+/-0.000 χ^2/NDF : 10695382.9/33

In: 0.008+/-0.000 χ^2/NDF :2322868.6/17

Out: 0.004+/-0.000 χ^2/NDF :8447341.3/20

All: 0.005+/-0.000 χ^2/NDF : 13710589.9/38

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.041 $\chi^2/\text{NDF}: 9.8/15$

Left Out: -0.440 ± 0.232 $\chi^2/\text{NDF}: 1.3/2$

Right Out: -0.036 ± 0.039 $\chi^2/\text{NDF}: 22.0/17$

Left In: 0.337 ± 0.198 $\chi^2/\text{NDF}: 3.6/1$

Left: 0.011 ± 0.151 $\chi^2/\text{NDF}: 11.4/4$

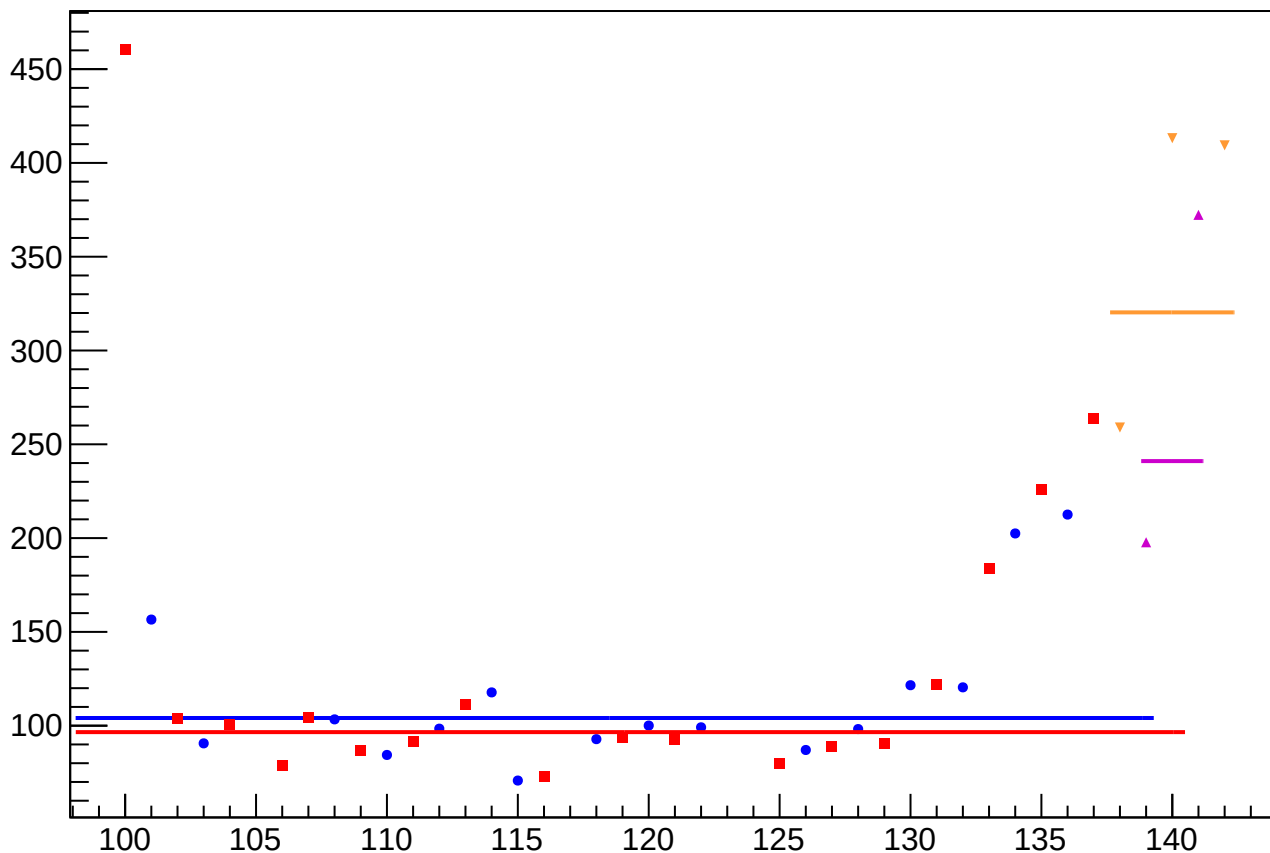
Right: -0.003 ± 0.028 $\chi^2/\text{NDF}: 33.4/33$

In: 0.047 ± 0.040 $\chi^2/\text{NDF}: 15.6/17$

Out: -0.047 ± 0.038 $\chi^2/\text{NDF}: 26.3/20$

All: -0.002 ± 0.028 $\chi^2/\text{NDF}: 44.8/38$

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 104.100 $\pm$ 0.029 χ^2 /NDF: 989809.0/15

Left Out: 320.325 $\pm$ 0.164 χ^2 /NDF: 208097.0/2

Right Out: 96.570 $\pm$ 0.028 χ^2 /NDF: 955477.2/17

Left In: 241.049 $\pm$ 0.140 χ^2 /NDF: 290234.7/1

Left: 274.362 $\pm$ 0.107 χ^2 /NDF: 633287.4/4

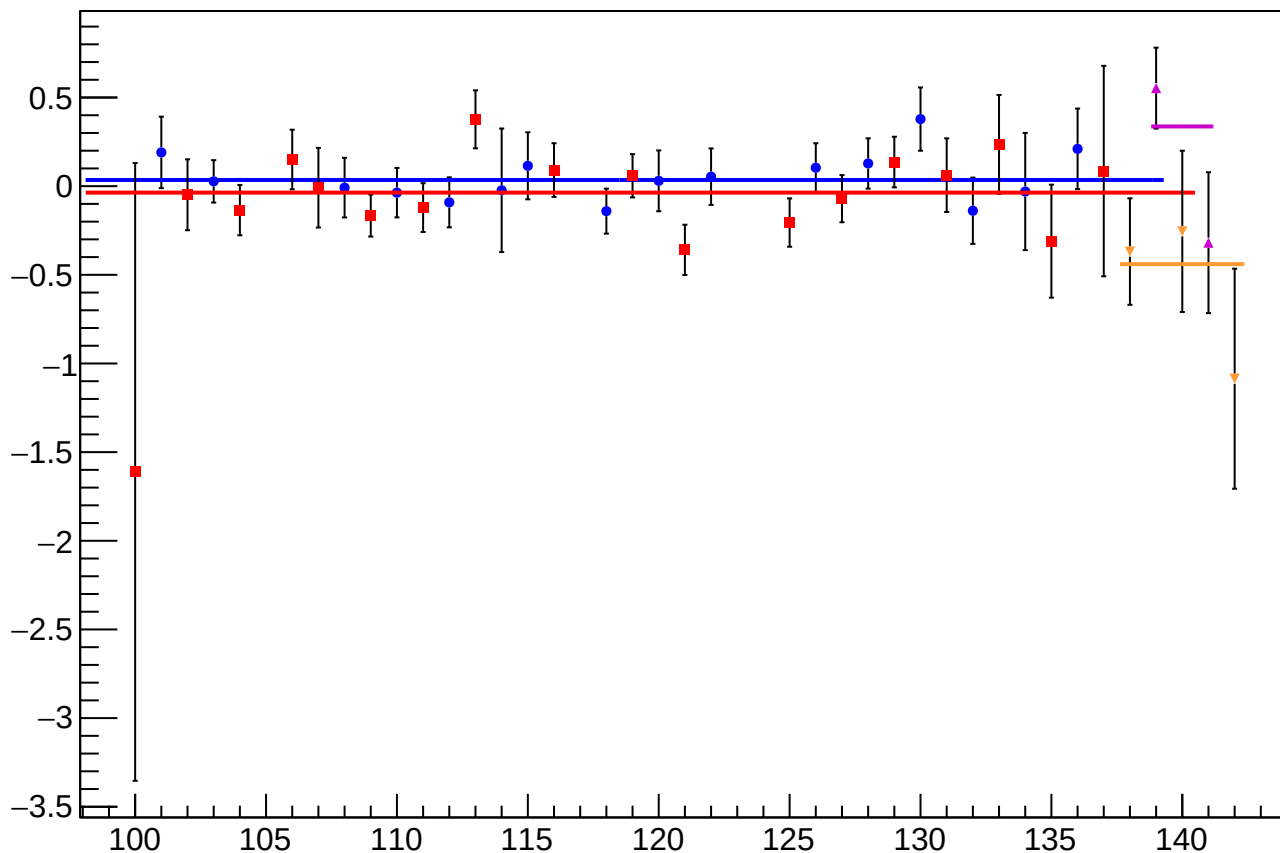
Right: 100.135 $\pm$ 0.020 χ^2 /NDF: 1980754.7/33

In: 109.748 $\pm$ 0.028 χ^2 /NDF: 2198897.7/17

Out: 102.670 $\pm$ 0.027 χ^2 /NDF: 2967343.8/20

All: 106.046 $\pm$ 0.020 χ^2 /NDF: 5198708.5/38

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.041 χ^2/NDF : 9.8/15

Left Out: -0.440 ± 0.232 χ^2/NDF : 1.3/2

Right Out: -0.036 ± 0.039 χ^2/NDF : 22.0/17

Left In: 0.337 ± 0.198 χ^2/NDF : 3.6/1

Left: 0.011 ± 0.151 χ^2/NDF : 11.4/4

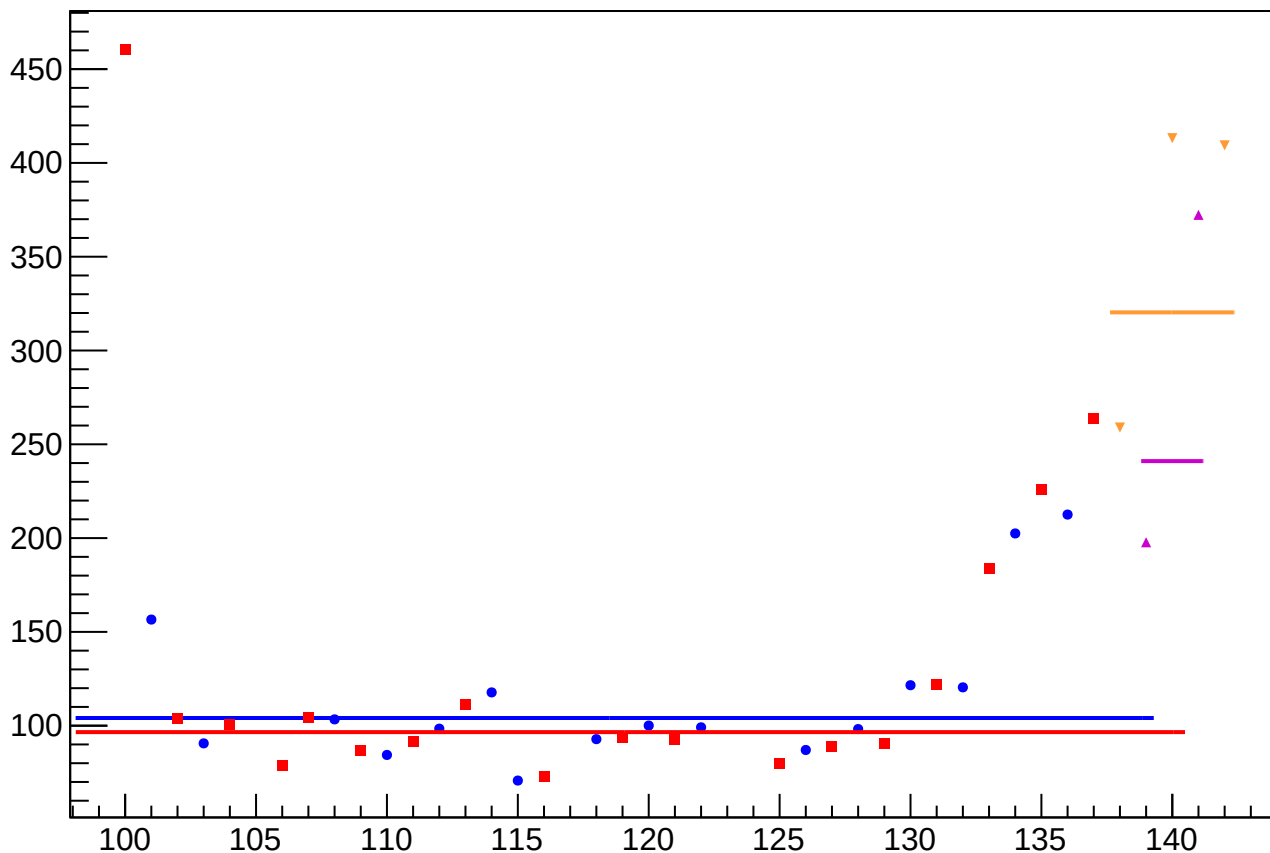
Right: -0.003 ± 0.028 χ^2/NDF : 33.4/33

In: 0.047 ± 0.040 χ^2/NDF : 15.6/17

Out: -0.047 ± 0.038 χ^2/NDF : 26.3/20

All: -0.002 ± 0.028 χ^2/NDF : 44.8/38

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 104.100 $\pm$ 0.029 χ^2 /NDF: 989809.0/15

Left Out: 320.325 $\pm$ 0.164 χ^2 /NDF: 208097.0/2

Right Out: 96.570 $\pm$ 0.028 χ^2 /NDF: 955477.2/17

Left In: 241.049 $\pm$ 0.140 χ^2 /NDF: 290234.7/1

Left: 274.362 $\pm$ 0.107 χ^2 /NDF: 633287.4/4

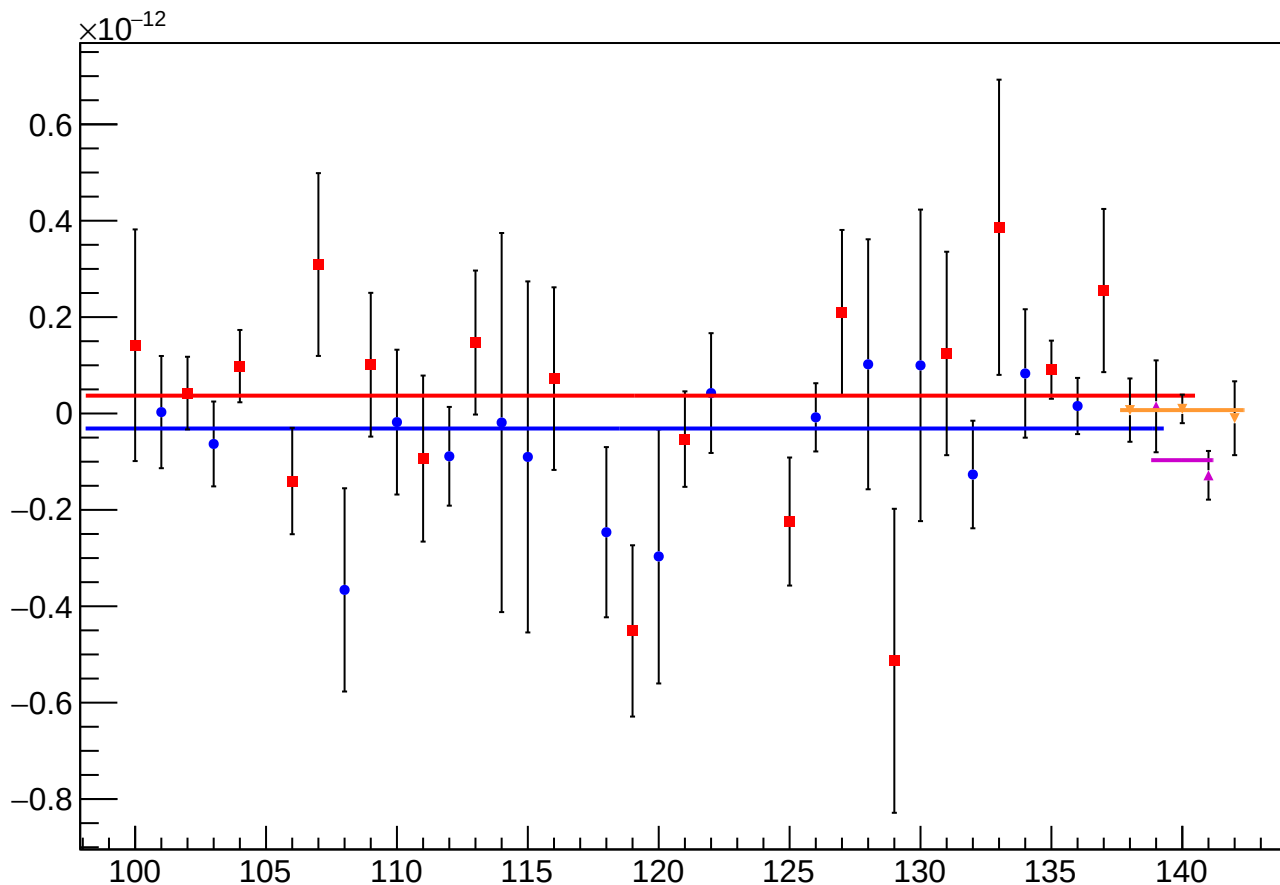
Right: 100.135 $\pm$ 0.020 χ^2 /NDF: 1980754.7/33

In: 109.748 $\pm$ 0.028 χ^2 /NDF: 2198897.7/17

Out: 102.670 $\pm$ 0.027 χ^2 /NDF: 2967343.8/20

All: 106.046 $\pm$ 0.020 χ^2 /NDF: 5198708.5/38

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 8.6/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.1/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 27.0/17

Left In: -0.000 ± 0.000 χ^2/NDF : 1.8/1

Left: -0.000 ± 0.000 χ^2/NDF : 5.9/4

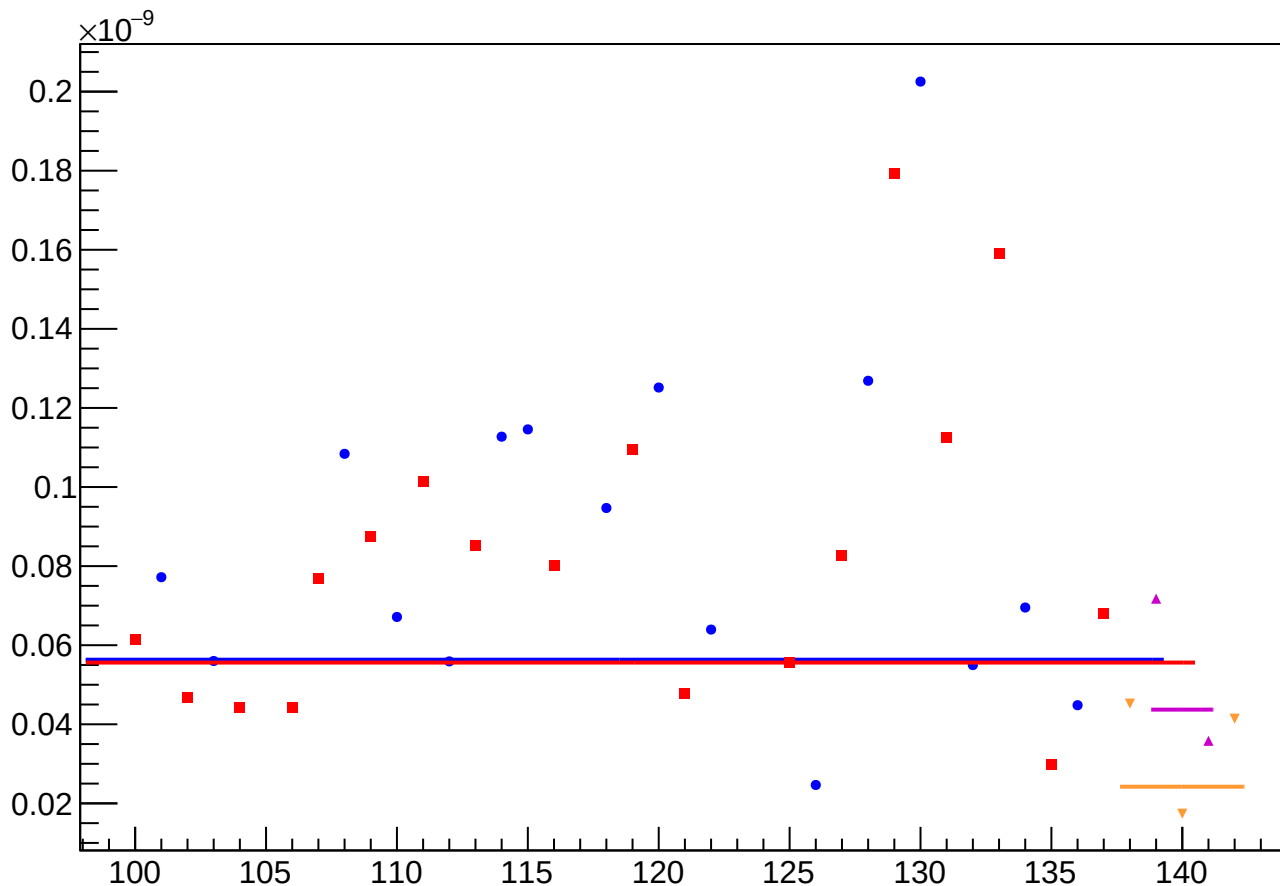
Right: 0.000 ± 0.000 χ^2/NDF : 38.4/33

In: -0.000 ± 0.000 χ^2/NDF : 11.8/17

Out: 0.000 ± 0.000 χ^2/NDF : 27.7/20

All: -0.000 ± 0.000 χ^2/NDF : 44.8/38

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1582688.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 411804.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1767462.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 222000.9/1

Left: 0.000+/-0.000 χ^2/NDF : 921564.6/4

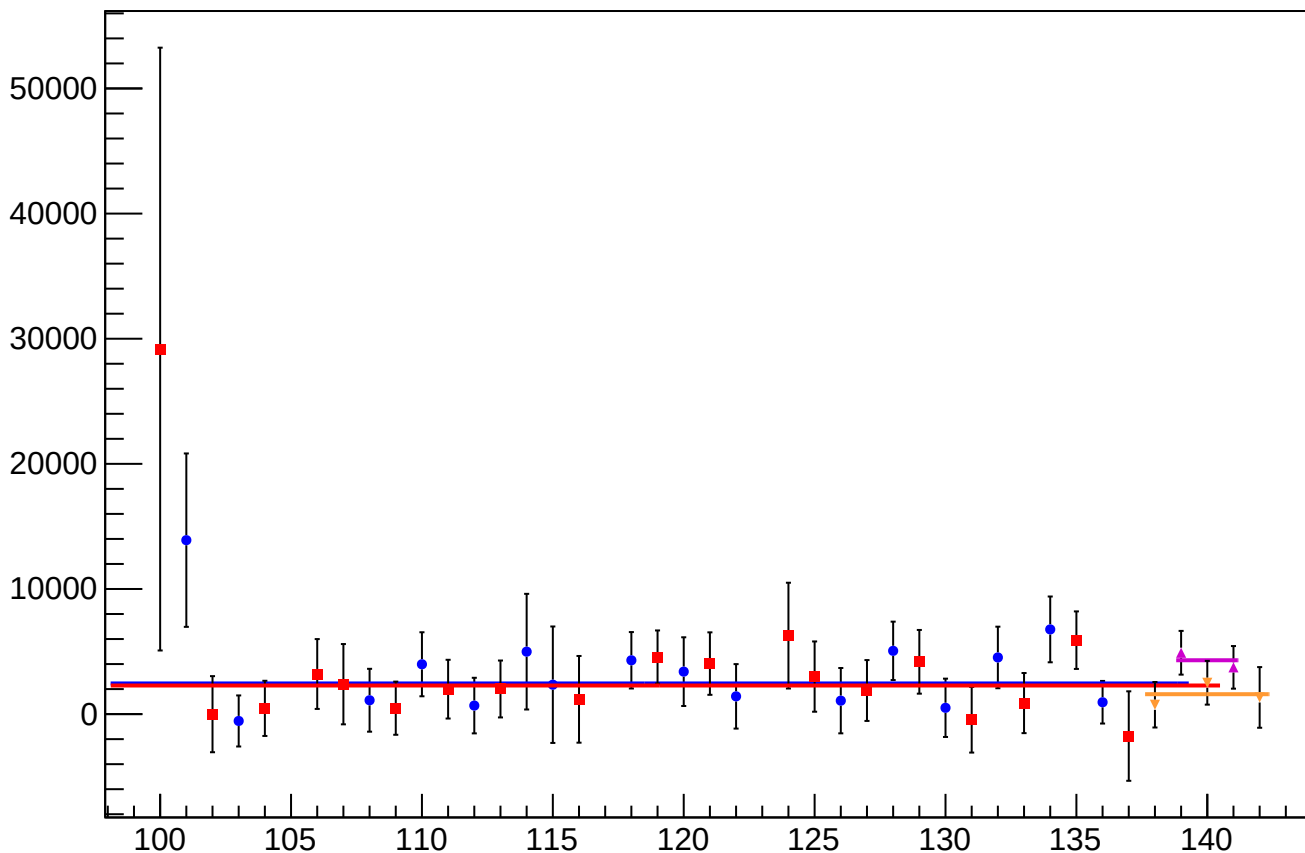
Right: 0.000+/-0.000 χ^2/NDF : 3350763.8/33

In: 0.000+/-0.000 χ^2/NDF : 1915811.5/17

Out: 0.000+/-0.000 χ^2/NDF : 3515583.0/20

All: 0.000+/-0.000 χ^2/NDF : 5863240.9/38

reg_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2449.957+/-630.235 χ^2/NDF : 13.8/15

Left Out: 1591.658+/-1117.940 χ^2/NDF : 0.5/2

Right Out: 2286.573+/-609.157 χ^2/NDF : 11.8/18

Left In: 4304.384+/-1219.507 χ^2/NDF : 0.2/1

Left: 2830.370+/-824.074 χ^2/NDF : 3.4/4

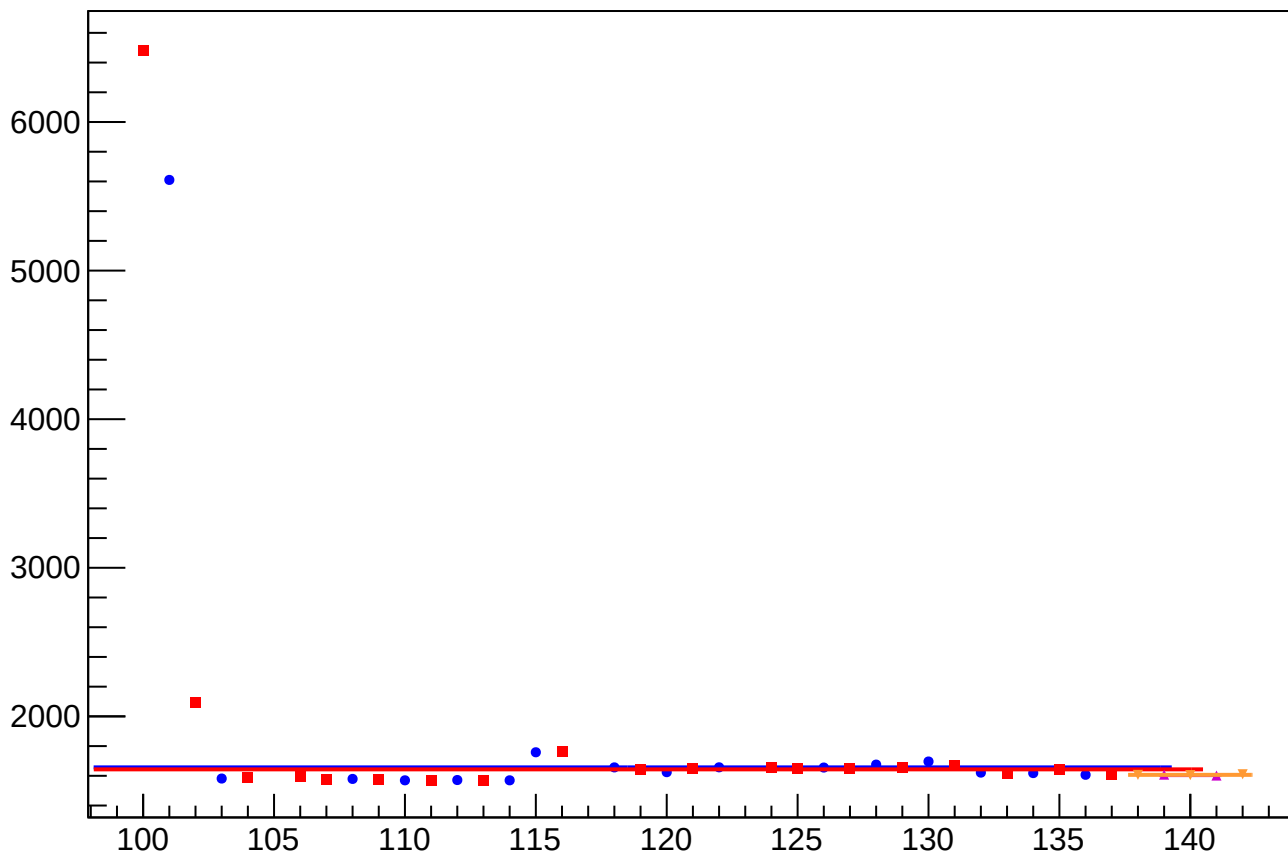
Right: 2365.487+/-438.001 χ^2/NDF : 25.7/34

In: 2840.836+/-559.888 χ^2/NDF : 15.9/17

Out: 2127.483+/-534.902 χ^2/NDF : 12.6/21

All: 2467.888+/-386.764 χ^2/NDF : 29.4/39

reg_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1656.683 $\pm$ 0.446 χ^2 /NDF: 666226.2/15

Left Out: 1606.459 $\pm$ 0.791 χ^2 /NDF: 7.4/2

Right Out: 1643.430 $\pm$ 0.431 χ^2 /NDF: 136997.9/18

Left In: 1604.781 $\pm$ 0.862 χ^2 /NDF: 12.5/1

Left: 1605.692 $\pm$ 0.583 χ^2 /NDF: 22.0/4

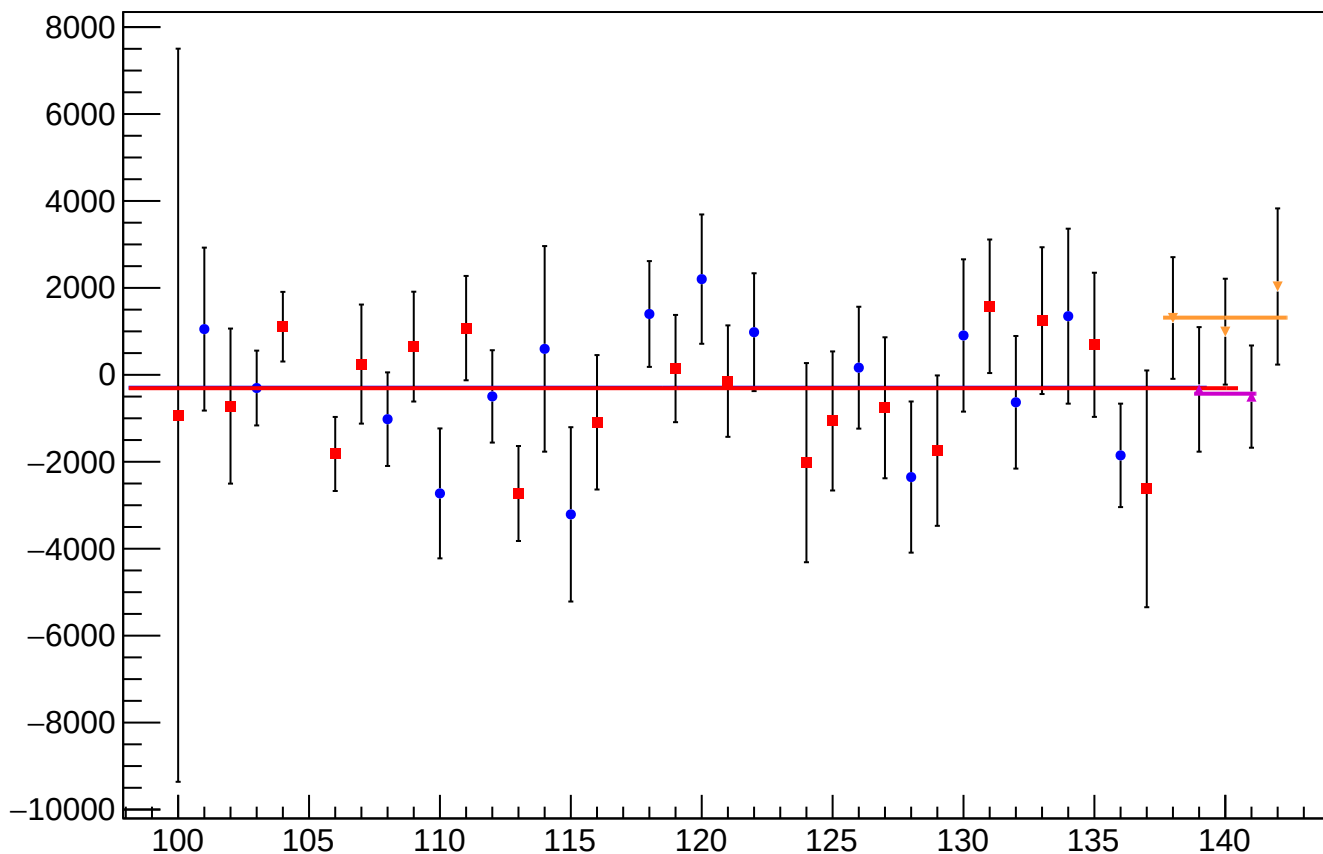
Right: 1649.831 $\pm$ 0.310 χ^2 /NDF: 803681.3/34

In: 1645.743 $\pm$ 0.396 χ^2 /NDF: 669097.9/17

Out: 1634.966 $\pm$ 0.378 χ^2 /NDF: 138691.9/21

All: 1640.109 $\pm$ 0.273 χ^2 /NDF: 808177.2/39

asym_usr_atr1_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -296.450+/-343.436 χ^2/NDF : 16.0/15

Left Out: 1315.893+/-818.085 χ^2/NDF : 0.2/2

Right Out: -307.671+/-312.976 χ^2/NDF : 18.7/18

Left In: -434.032+/-909.075 χ^2/NDF : 0.0/1

Left: 532.865+/-608.105 χ^2/NDF : 2.3/4

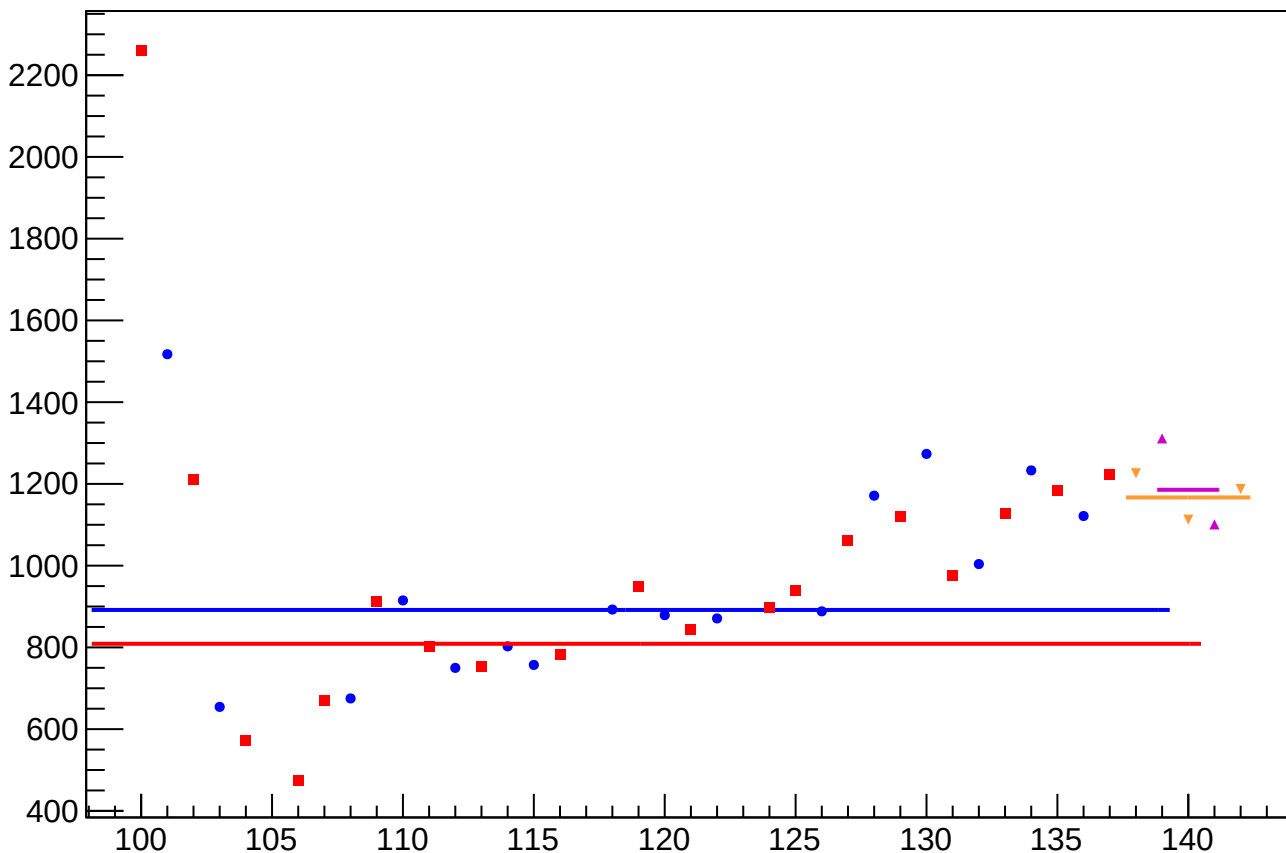
Right: -302.580+/-231.328 χ^2/NDF : 34.7/34

In: -313.634+/-321.274 χ^2/NDF : 16.0/17

Out: -100.383+/-292.315 χ^2/NDF : 22.4/21

All: -196.966+/-216.213 χ^2/NDF : 38.6/39

asym_usr_atr1_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 891.633+/-0.243 χ^2/NDF : 793897.2/15

Left Out: 1166.846+/-0.578 χ^2/NDF : 7806.3/2

Right Out: 808.809+/-0.221 χ^2/NDF : 1083841.8/18

Left In: 1185.604+/-0.643 χ^2/NDF : 25776.3/1

Left: 1175.240+/-0.430 χ^2/NDF : 34053.0/4

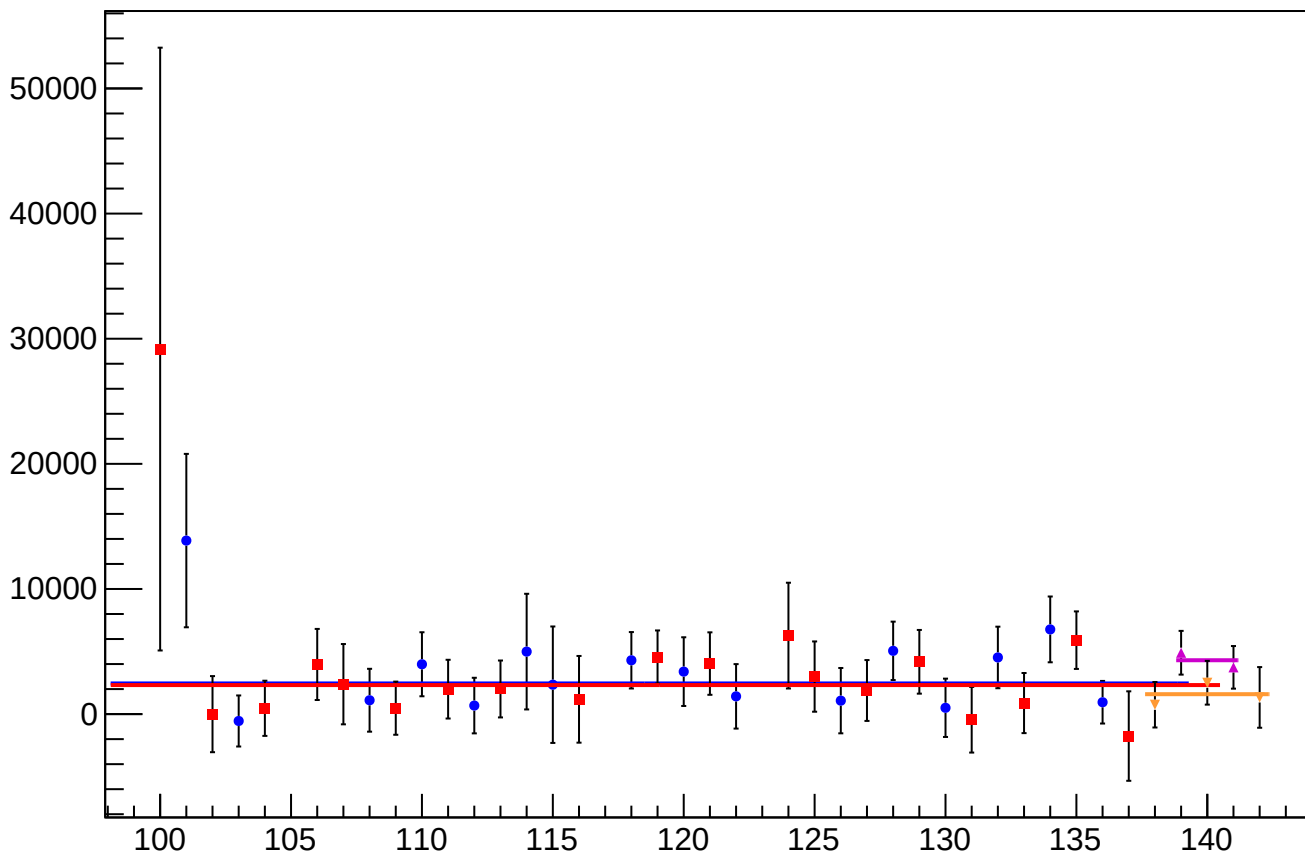
Right: 846.386+/-0.164 χ^2/NDF : 1941284.0/34

In: 928.349+/-0.227 χ^2/NDF : 1002693.4/17

Out: 854.522+/-0.207 χ^2/NDF : 1425818.8/21

All: 887.959+/-0.153 χ^2/NDF : 2486292.0/39

cor_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2449.397+/-630.235 χ^2/NDF : 13.8/15

Left Out: 1591.634+/-1117.940 χ^2/NDF : 0.5/2

Right Out: 2320.575+/-609.657 χ^2/NDF : 12.1/18

Left In: 4304.696+/-1219.507 χ^2/NDF : 0.2/1

Left: 2830.499+/-824.074 χ^2/NDF : 3.4/4

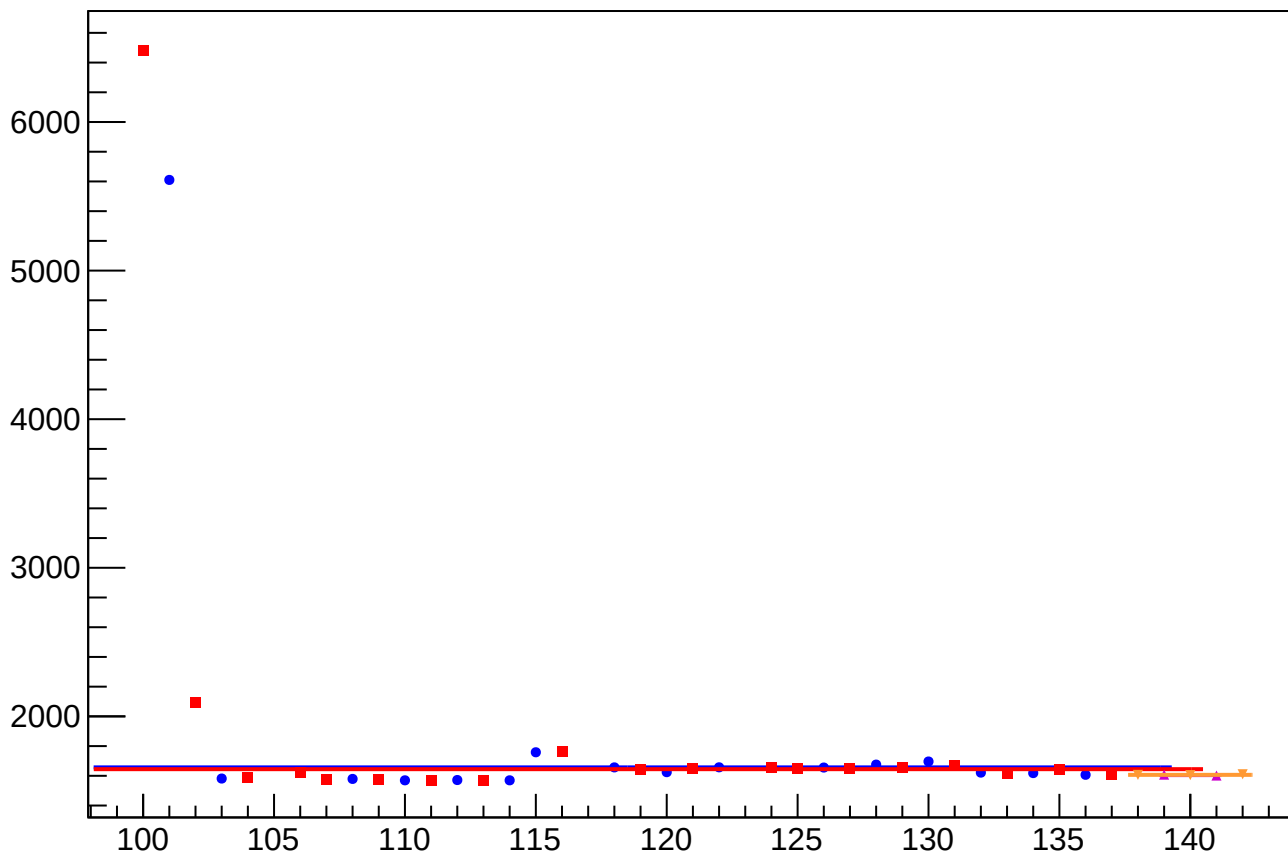
Right: 2382.848+/-438.187 χ^2/NDF : 25.9/34

In: 2840.461+/-559.888 χ^2/NDF : 15.9/17

Out: 2153.483+/-535.241 χ^2/NDF : 12.9/21

All: 2481.519+/-386.892 χ^2/NDF : 29.6/39

cor_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1656.683+/-0.446 χ^2/NDF : 666225.7/15

Left Out: 1606.459+/-0.791 χ^2/NDF : 7.4/2

Right Out: 1644.733+/-0.431 χ^2/NDF : 136483.1/18

Left In: 1604.781+/-0.862 χ^2/NDF : 12.5/1

Left: 1605.692+/-0.583 χ^2/NDF : 22.0/4

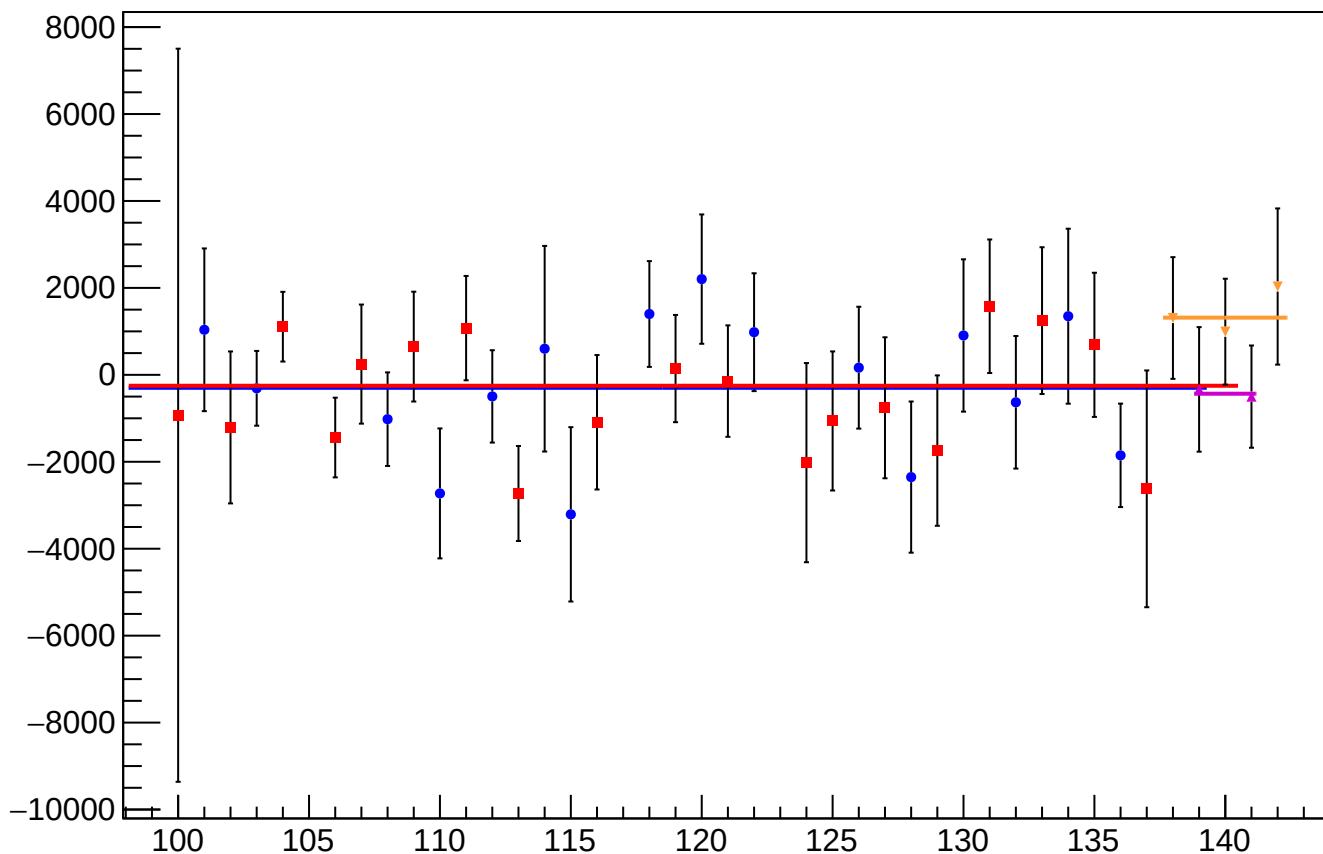
Right: 1650.510+/-0.310 χ^2/NDF : 803080.3/34

In: 1645.743+/-0.396 χ^2/NDF : 669097.4/17

Out: 1635.959+/-0.378 χ^2/NDF : 138297.4/21

All: 1640.631+/-0.274 χ^2/NDF : 807713.9/39

asym_usr_atr1_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -297.794 $\pm$ 343.391 χ^2 /NDF: 15.9/15

Left Out: 1315.814 $\pm$ 818.077 χ^2 /NDF:0.2/2

Right Out: -251.230 $\pm$ 315.749 χ^2 /NDF: 17.3/18

Left In: -434.262 $\pm$ 909.076 χ^2 /NDF:0.0/1

Left: 532.728 $\pm$ 608.103 χ^2 /NDF: 2.3/4

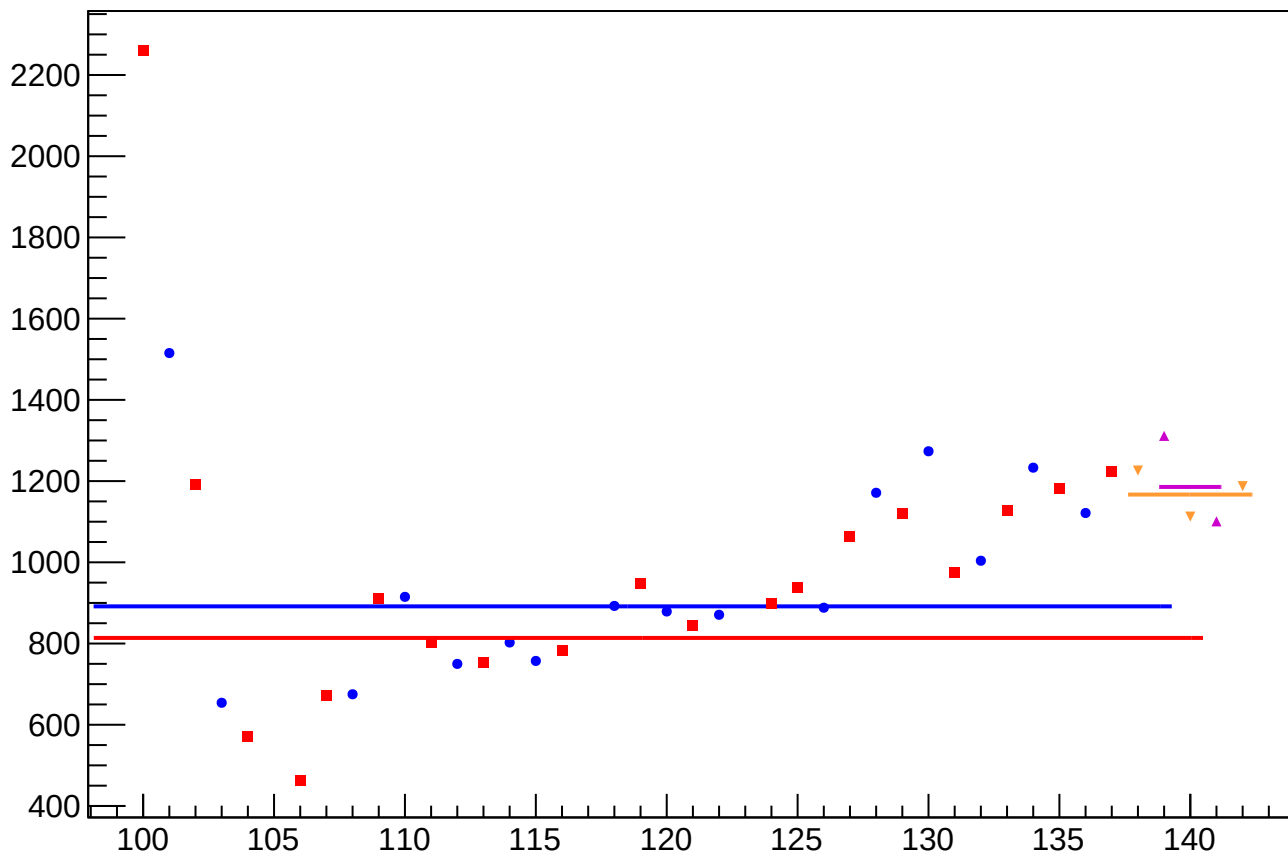
Right: -272.563 $\pm$ 232.427 χ^2 /NDF: 33.2/34

In: -314.834 $\pm$ 321.237 χ^2 /NDF:16.0/17

Out: -48.056 $\pm$ 294.570 χ^2 /NDF:20.7/21

All: -169.914 $\pm$ 217.109 χ^2 /NDF: 37.0/39

asym_usr_atr1_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 891.533+/-0.243 χ^2/NDF : 793657.2/15

Left Out: 1166.834+/-0.578 χ^2/NDF : 7805.6/2

Right Out: 813.807+/-0.223 χ^2/NDF : 1052991.6/18

Left In: 1185.604+/-0.643 χ^2/NDF : 25781.4/1

Left: 1175.233+/-0.430 χ^2/NDF : 34058.1/4

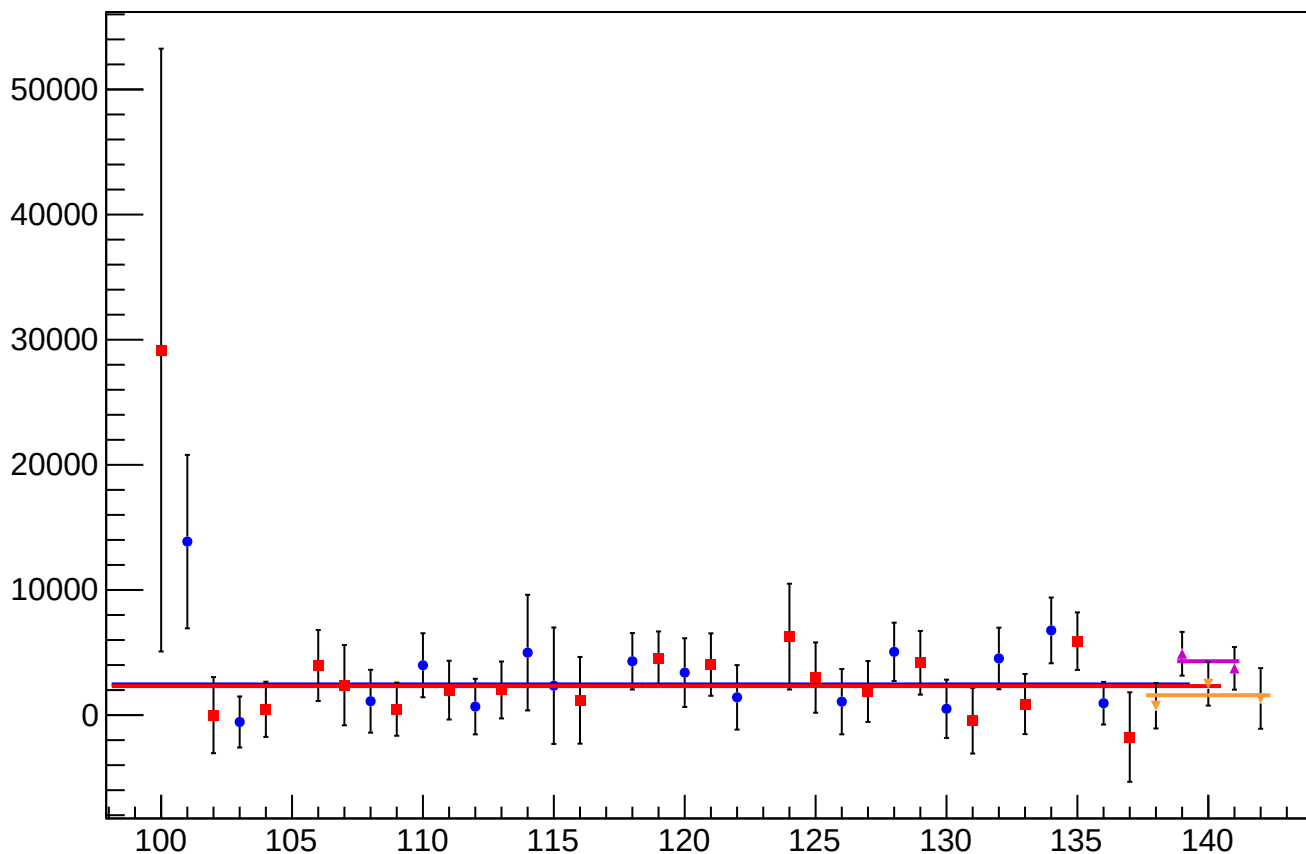
Right: 849.416+/-0.164 χ^2/NDF : 1902171.7/34

In: 928.253+/-0.227 χ^2/NDF : 1002588.9/17

Out: 859.579+/-0.208 χ^2/NDF : 1384948.6/21

All: 890.947+/-0.154 χ^2/NDF : 2437190.6/39

eigen_cor_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2449.397+/-630.235 χ^2/NDF : 13.8/15

Left Out: 1591.634+/-1117.940 χ^2/NDF : 0.5/2

Right Out: 2320.575+/-609.657 χ^2/NDF : 12.1/18

Left In: 4304.696+/-1219.507 χ^2/NDF : 0.2/1

Left: 2830.499+/-824.074 χ^2/NDF : 3.4/4

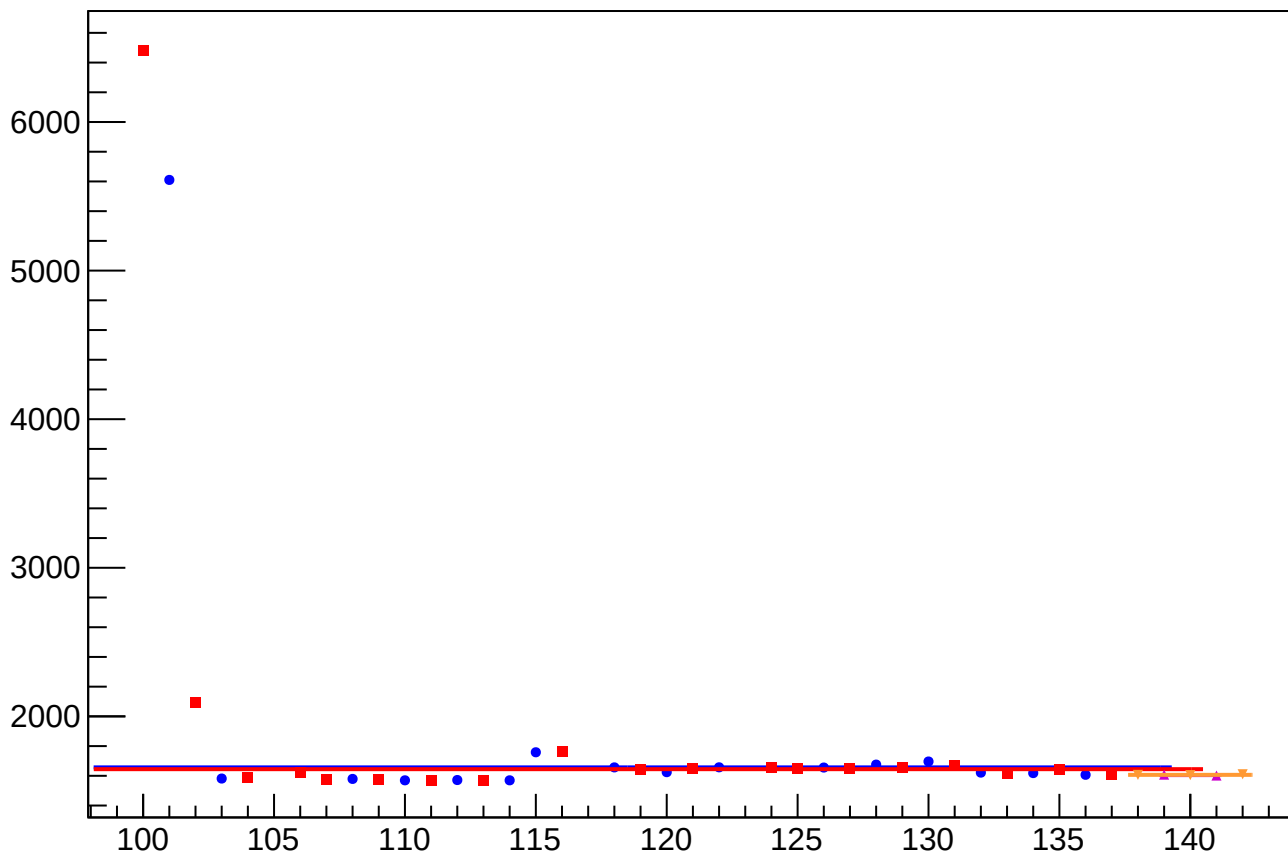
Right: 2382.848+/-438.187 χ^2/NDF : 25.9/34

In: 2840.461+/-559.888 χ^2/NDF : 15.9/17

Out: 2153.483+/-535.241 χ^2/NDF : 12.9/21

All: 2481.519+/-386.892 χ^2/NDF : 29.6/39

eigen_cor_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1656.683+/-0.446 χ^2/NDF : 666225.7/15

Left Out: 1606.459+/-0.791 χ^2/NDF : 7.4/2

Right Out: 1644.733+/-0.431 χ^2/NDF : 136483.1/18

Left In: 1604.781+/-0.862 χ^2/NDF : 12.5/1

Left: 1605.692+/-0.583 χ^2/NDF : 22.0/4

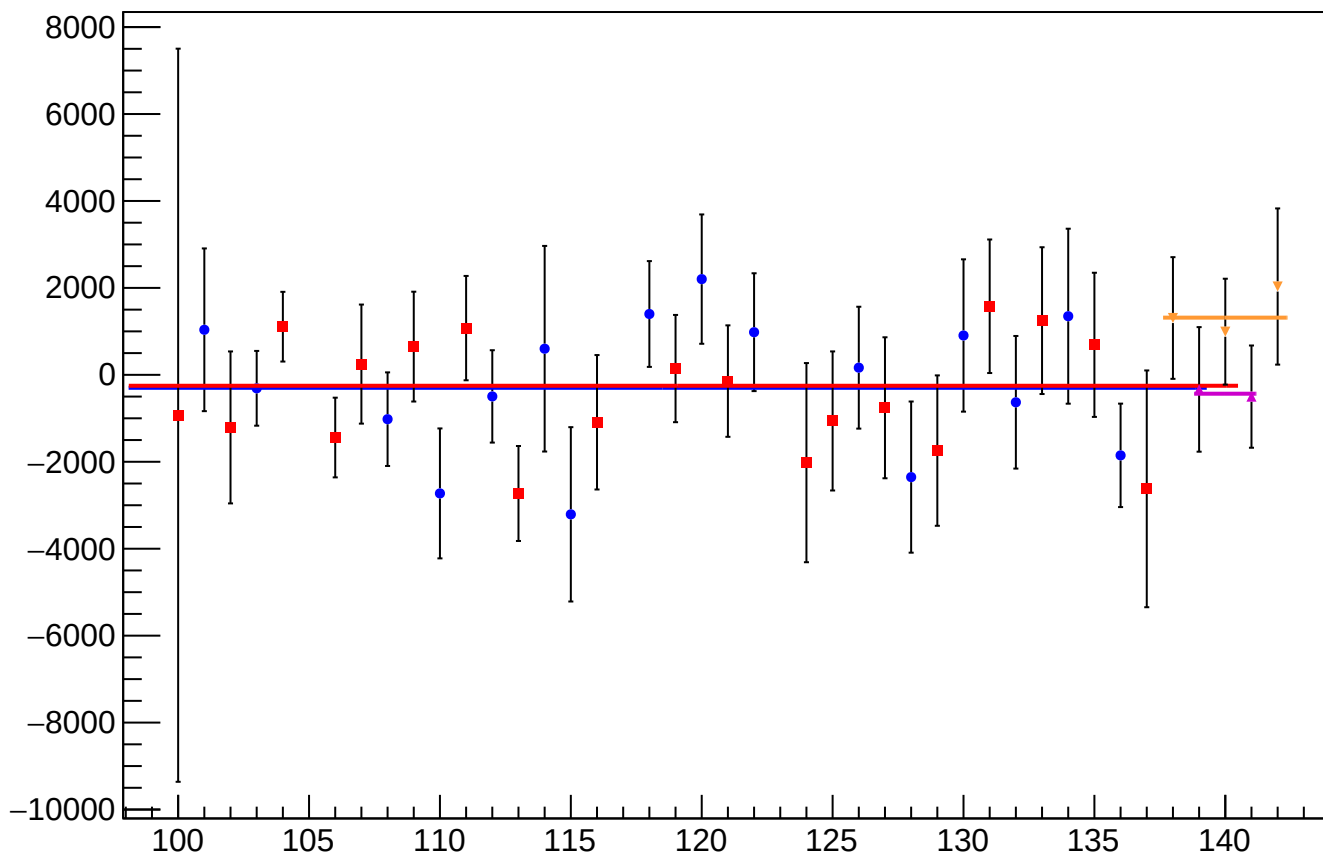
Right: 1650.510+/-0.310 χ^2/NDF : 803080.3/34

In: 1645.743+/-0.396 χ^2/NDF : 669097.4/17

Out: 1635.959+/-0.378 χ^2/NDF : 138297.4/21

All: 1640.631+/-0.274 χ^2/NDF : 807713.9/39

asym_usr_atr1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -297.794+/-343.391 χ^2/NDF : 15.9/15

Left Out: 1315.814+/-818.077 χ^2/NDF : 0.2/2

Right Out: -251.230+/-315.749 χ^2/NDF : 17.3/18

Left In: -434.262+/-909.076 χ^2/NDF : 0.0/1

Left: 532.728+/-608.103 χ^2/NDF : 2.3/4

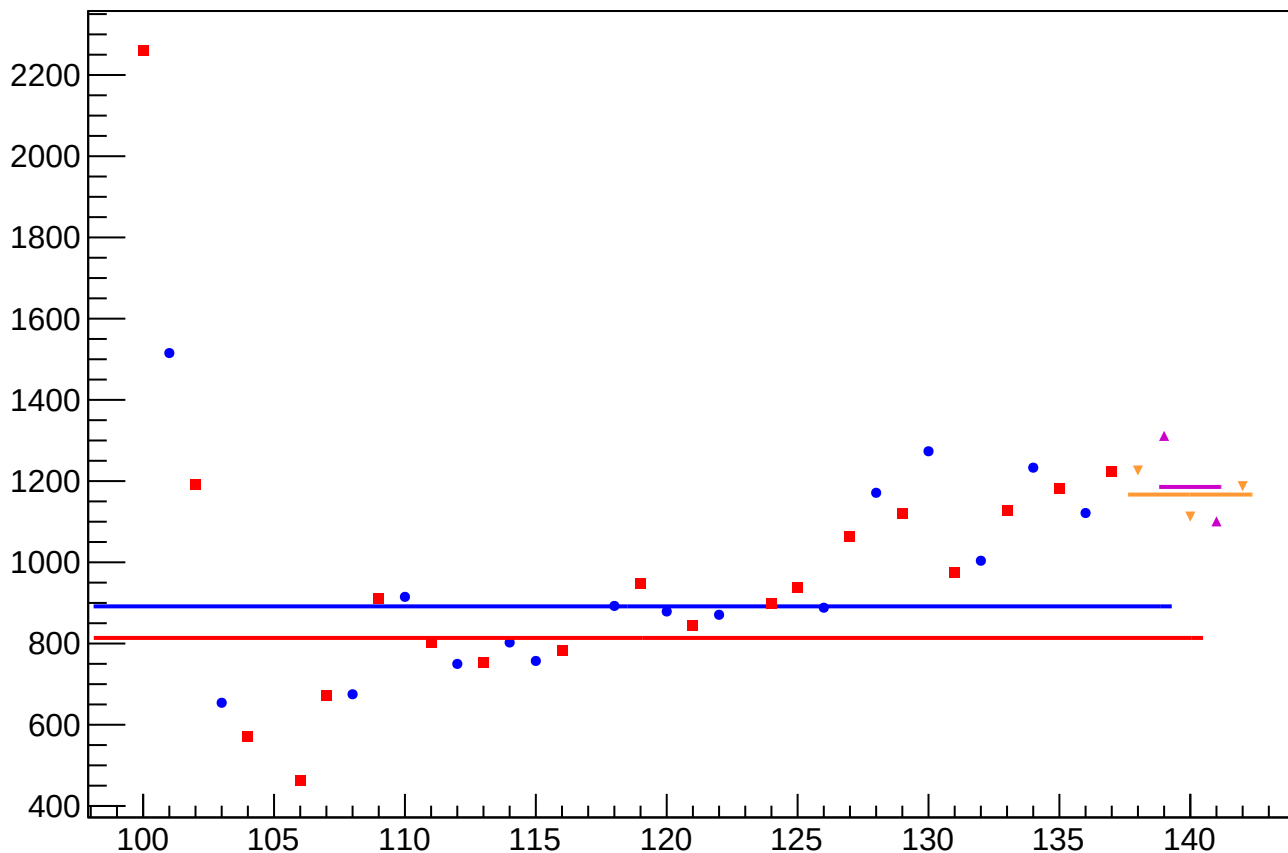
Right: -272.563+/-232.427 χ^2/NDF : 33.2/34

In: -314.834+/-321.237 χ^2/NDF : 16.0/17

Out: -48.056+/-294.570 χ^2/NDF : 20.7/21

All: -169.914+/-217.109 χ^2/NDF : 37.0/39

asym_usr_atr1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 891.533+/-0.243 χ^2/NDF : 793657.2/15

Left Out: 1166.834+/-0.578 χ^2/NDF : 7805.6/2

Right Out: 813.807+/-0.223 χ^2/NDF : 1052991.6/18

Left In: 1185.604+/-0.643 χ^2/NDF : 25781.4/1

Left: 1175.233+/-0.430 χ^2/NDF : 34058.1/4

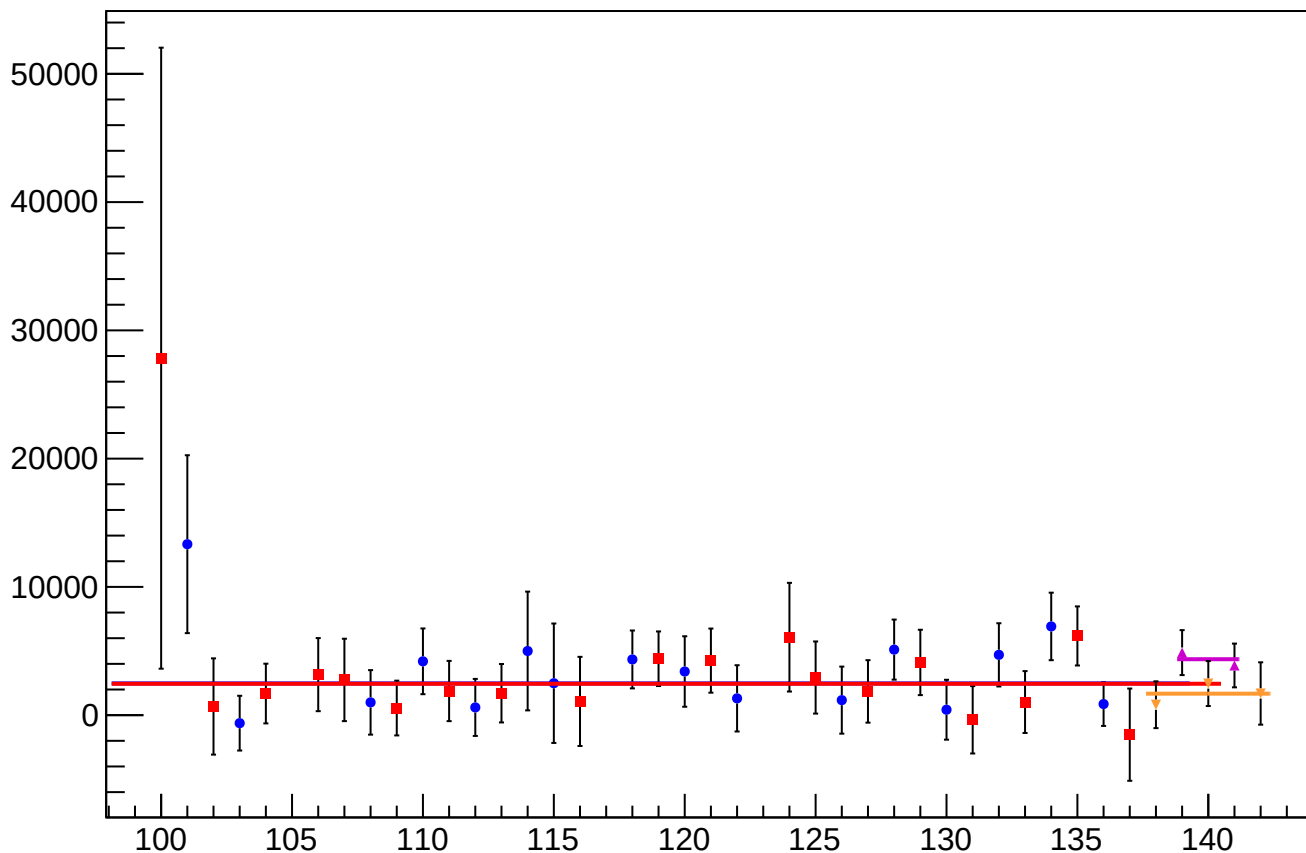
Right: 849.416+/-0.164 χ^2/NDF : 1902171.7/34

In: 928.253+/-0.227 χ^2/NDF : 1002588.9/17

Out: 859.579+/-0.208 χ^2/NDF : 1384948.6/21

All: 890.947+/-0.154 χ^2/NDF : 2437190.6/39

dit_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2475.229+/-633.866 χ^2/NDF : 14.2/15

Left Out: 1676.283+/-1121.279 χ^2/NDF : 0.4/2

Right Out: 2449.053+/-617.532 χ^2/NDF : 10.6/18

Left In: 4362.204+/-1222.203 χ^2/NDF : 0.2/1

Left: 2903.786+/-826.243 χ^2/NDF : 3.2/4

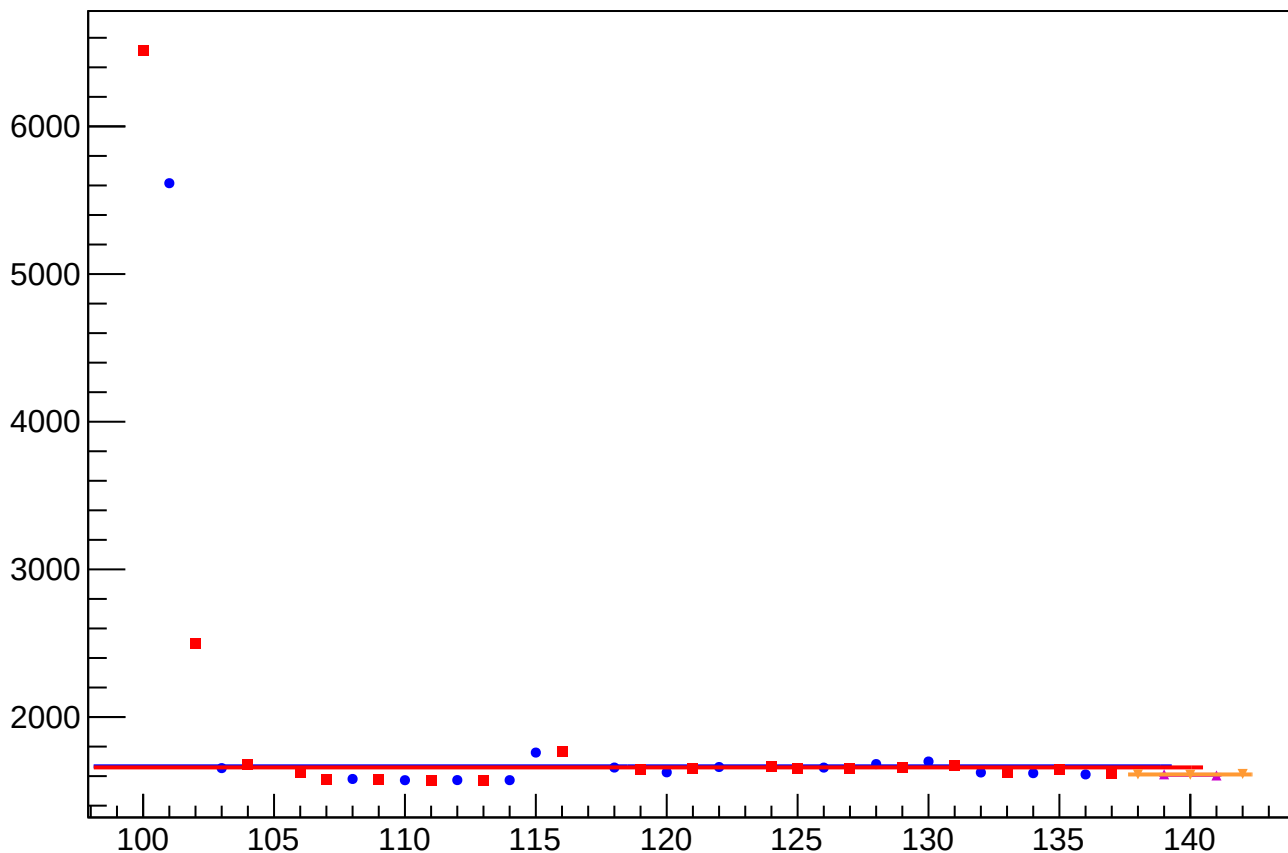
Right: 2461.799+/-442.323 χ^2/NDF : 24.8/34

In: 2875.194+/-562.693 χ^2/NDF : 16.3/17

Out: 2269.210+/-540.923 χ^2/NDF : 11.3/21

All: 2560.253+/-389.959 χ^2/NDF : 28.2/39

dit_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1666.400+/-0.448 χ^2/NDF : 662914.5/15

Left Out: 1611.243+/-0.793 χ^2/NDF : 6.2/2

Right Out: 1659.005+/-0.437 χ^2/NDF : 193223.7/18

Left In: 1608.256+/-0.864 χ^2/NDF : 19.7/1

Left: 1609.878+/-0.584 χ^2/NDF : 32.4/4

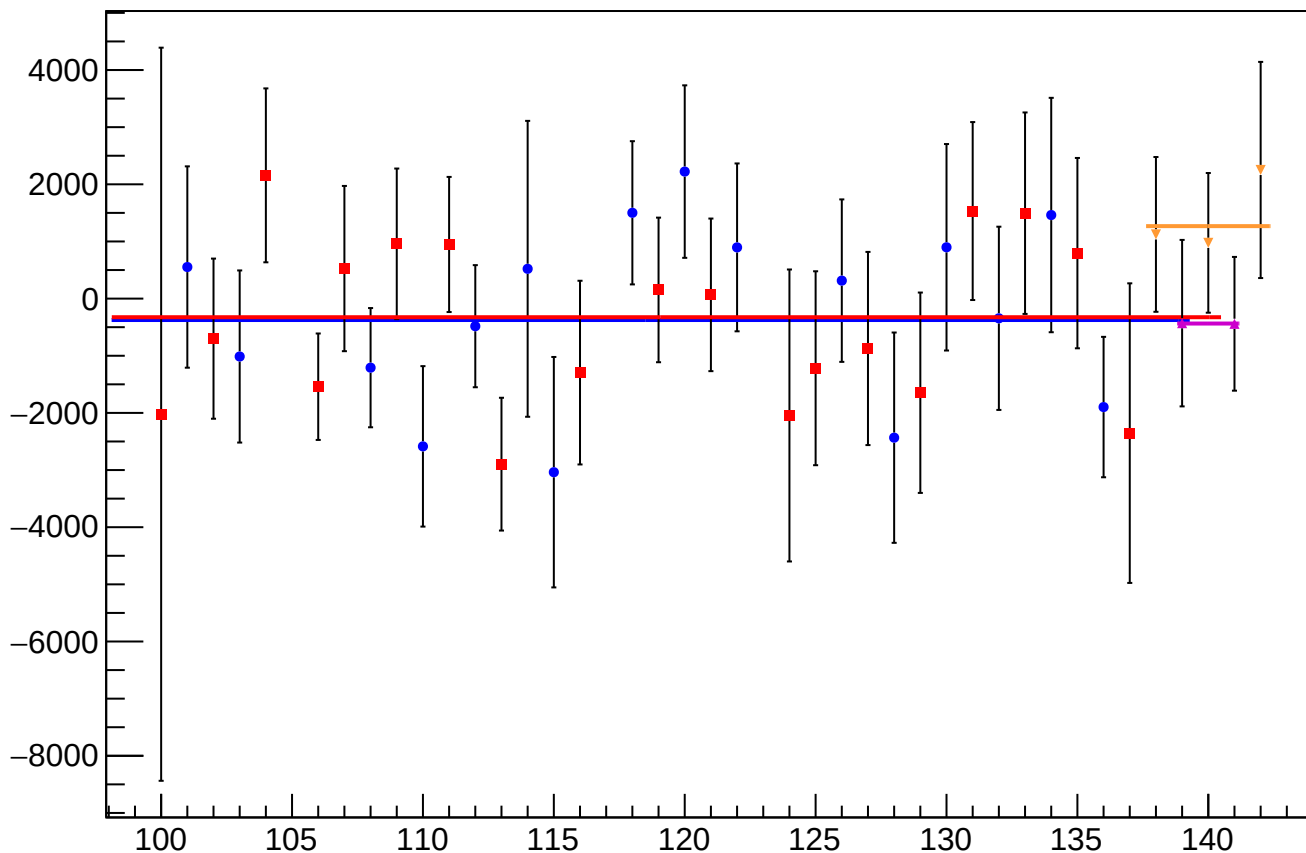
Right: 1662.606+/-0.313 χ^2/NDF : 856277.9/34

In: 1654.076+/-0.398 χ^2/NDF : 666501.1/17

Out: 1647.889+/-0.382 χ^2/NDF : 196014.2/21

All: 1650.860+/-0.276 χ^2/NDF : 862641.0/39

asym_usr_atr1_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -374.592+/-367.944 χ^2/NDF : 15.7/15

Left Out: 1268.156+/-818.031 χ^2/NDF : 0.3/2

Right Out: -325.671+/-340.620 χ^2/NDF : 17.4/18

Left In: -436.270+/-912.262 χ^2/NDF : 0.0/1

Left: 508.491+/-609.034 χ^2/NDF : 2.3/4

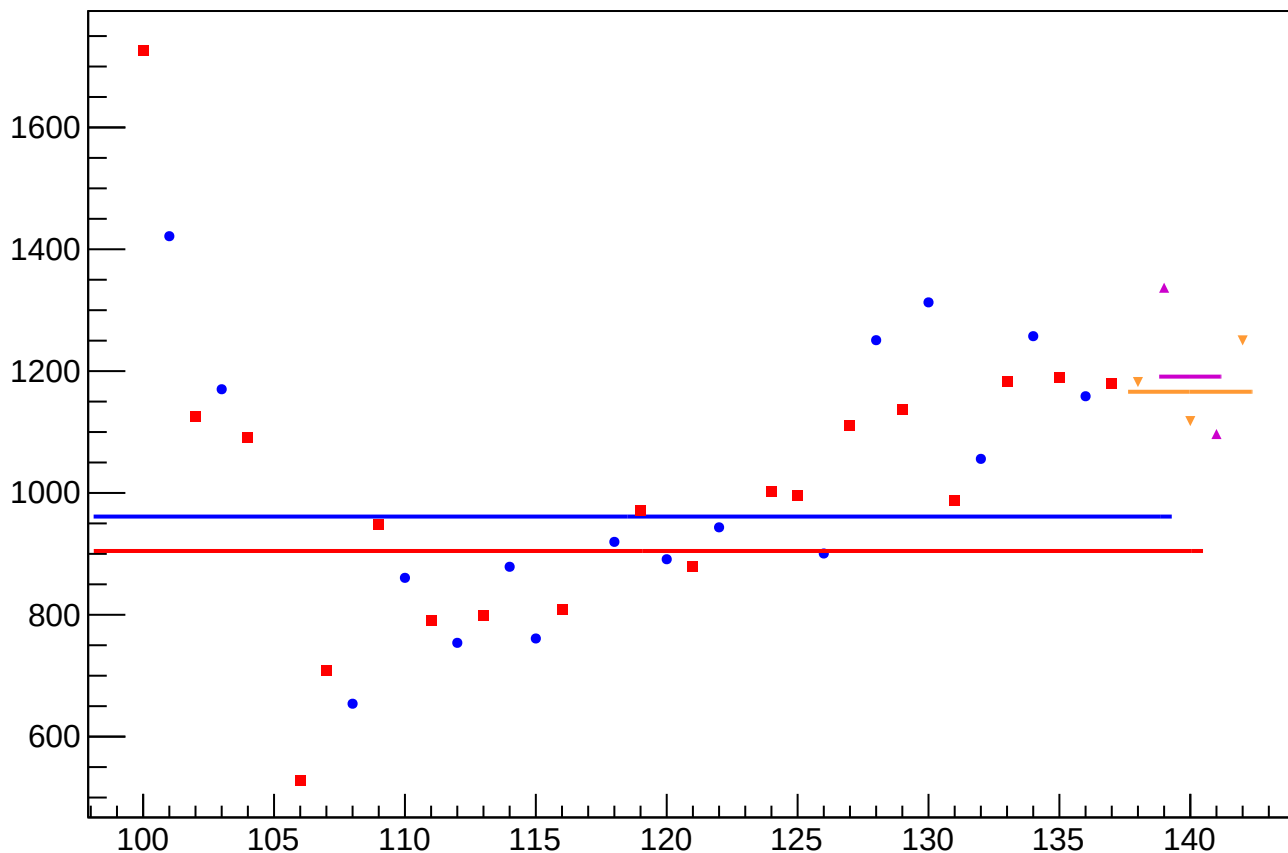
Right: -348.248+/-249.957 χ^2/NDF : 33.1/34

In: -383.222+/-341.234 χ^2/NDF : 15.7/17

Out: -90.164+/-314.450 χ^2/NDF : 21.0/21

All: -224.741+/-231.240 χ^2/NDF : 37.1/39

asym_usr_atr1_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 961.243 $\pm$ 0.260 χ^2 /NDF: 691875.4/15

Left Out: 1166.129 $\pm$ 0.578 χ^2 /NDF: 7356.2/2

Right Out: 904.736 $\pm$ 0.241 χ^2 /NDF: 736484.7/18

Left In: 1190.967 $\pm$ 0.645 χ^2 /NDF: 33048.4/1

Left: 1177.199 $\pm$ 0.431 χ^2 /NDF: 41226.3/4

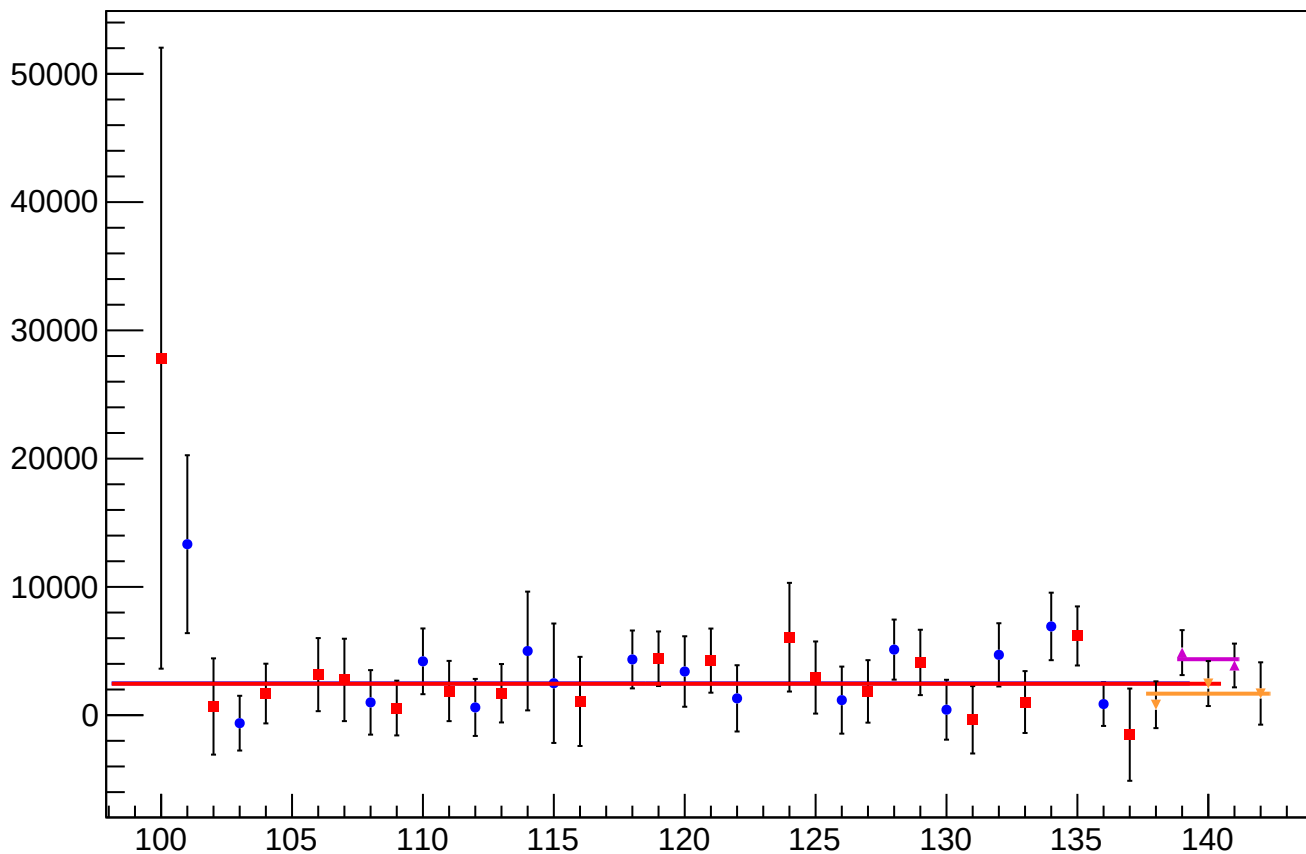
Right: 930.814 $\pm$ 0.177 χ^2 /NDF: 1453761.0/34

In: 993.385 $\pm$ 0.241 χ^2 /NDF: 834003.8/17

Out: 943.360 $\pm$ 0.222 χ^2 /NDF: 917877.1/21

All: 966.332 $\pm$ 0.164 χ^2 /NDF: 1775124.9/39

eigen_dit_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2475.228+/-633.866 χ^2/NDF : 14.2/15

Left Out: 1676.286+/-1121.279 χ^2/NDF : 0.4/2

Right Out: 2449.053+/-617.532 χ^2/NDF : 10.6/18

Left In: 4362.199+/-1222.203 χ^2/NDF : 0.2/1

Left: 2903.786+/-826.243 χ^2/NDF : 3.2/4

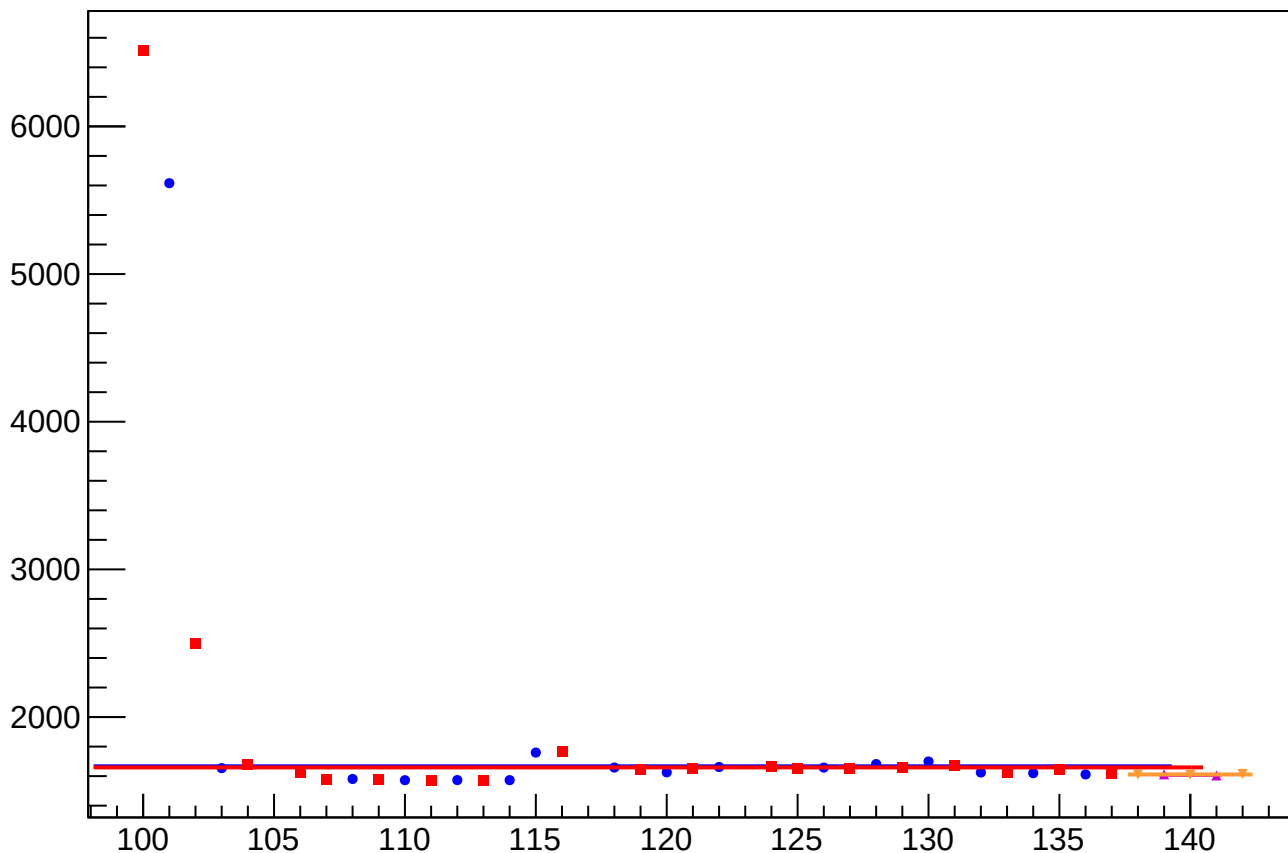
Right: 2461.799+/-442.323 χ^2/NDF : 24.8/34

In: 2875.192+/-562.693 χ^2/NDF : 16.3/17

Out: 2269.211+/-540.923 χ^2/NDF : 11.3/21

All: 2560.253+/-389.959 χ^2/NDF : 28.2/39

eigen_dit_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1666.400+/-0.448 χ^2/NDF : 662914.5/15

Left Out: 1611.243+/-0.793 χ^2/NDF : 6.2/2

Right Out: 1659.004+/-0.437 χ^2/NDF : 193223.5/18

Left In: 1608.256+/-0.864 χ^2/NDF : 19.7/1

Left: 1609.878+/-0.584 χ^2/NDF : 32.4/4

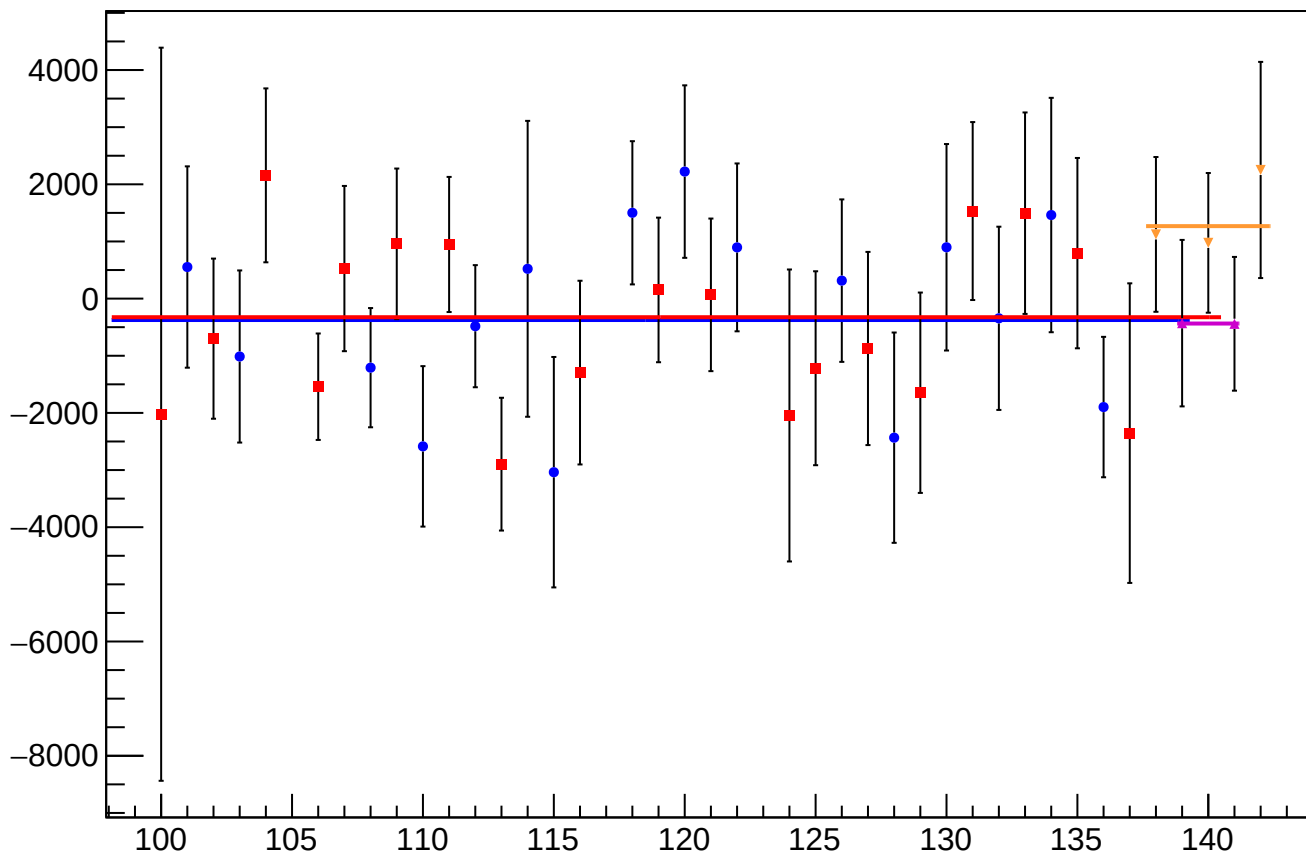
Right: 1662.606+/-0.313 χ^2/NDF : 856277.7/34

In: 1654.075+/-0.398 χ^2/NDF : 666501.1/17

Out: 1647.889+/-0.382 χ^2/NDF : 196014.0/21

All: 1650.860+/-0.276 χ^2/NDF : 862640.8/39

asym_usr_atr1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -374.590+/-367.943 χ^2/NDF : 15.7/15

Left Out: 1268.159+/-818.033 χ^2/NDF : 0.3/2

Right Out: -325.670+/-340.619 χ^2/NDF : 17.4/18

Left In: -436.274+/-912.264 χ^2/NDF : 0.0/1

Left: 508.491+/-609.035 χ^2/NDF : 2.3/4

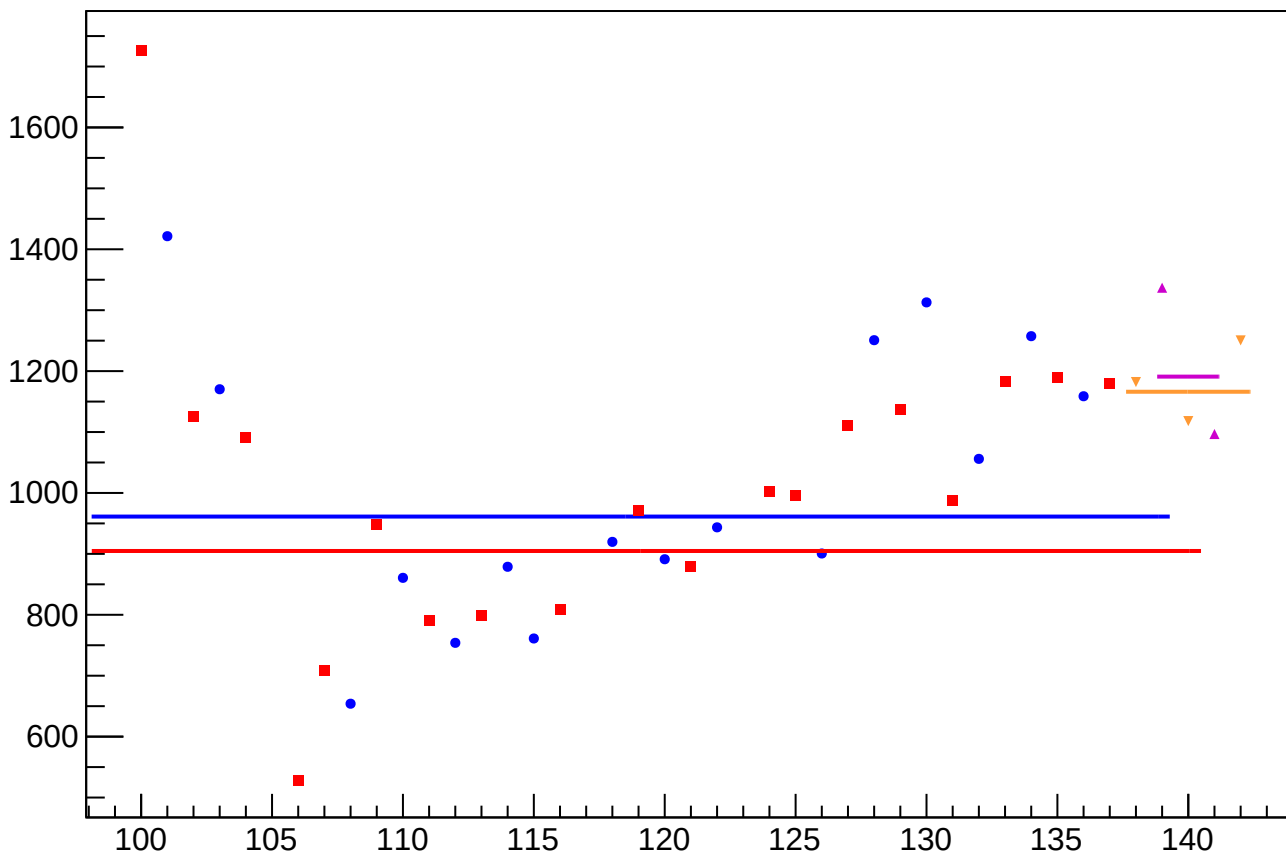
Right: -348.247+/-249.956 χ^2/NDF : 33.1/34

In: -383.221+/-341.233 χ^2/NDF : 15.7/17

Out: -90.165+/-314.449 χ^2/NDF : 21.0/21

All: -224.741+/-231.239 χ^2/NDF : 37.1/39

asym_usr_atr1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 961.239 $\pm$ 0.260 χ^2 /NDF: 691883.4/15

Left Out: 1166.132 $\pm$ 0.578 χ^2 /NDF: 7356.3/2

Right Out: 904.734 $\pm$ 0.241 χ^2 /NDF: 736482.2/18

Left In: 1190.969 $\pm$ 0.645 χ^2 /NDF: 33048.6/1

Left: 1177.202 $\pm$ 0.431 χ^2 /NDF: 41226.6/4

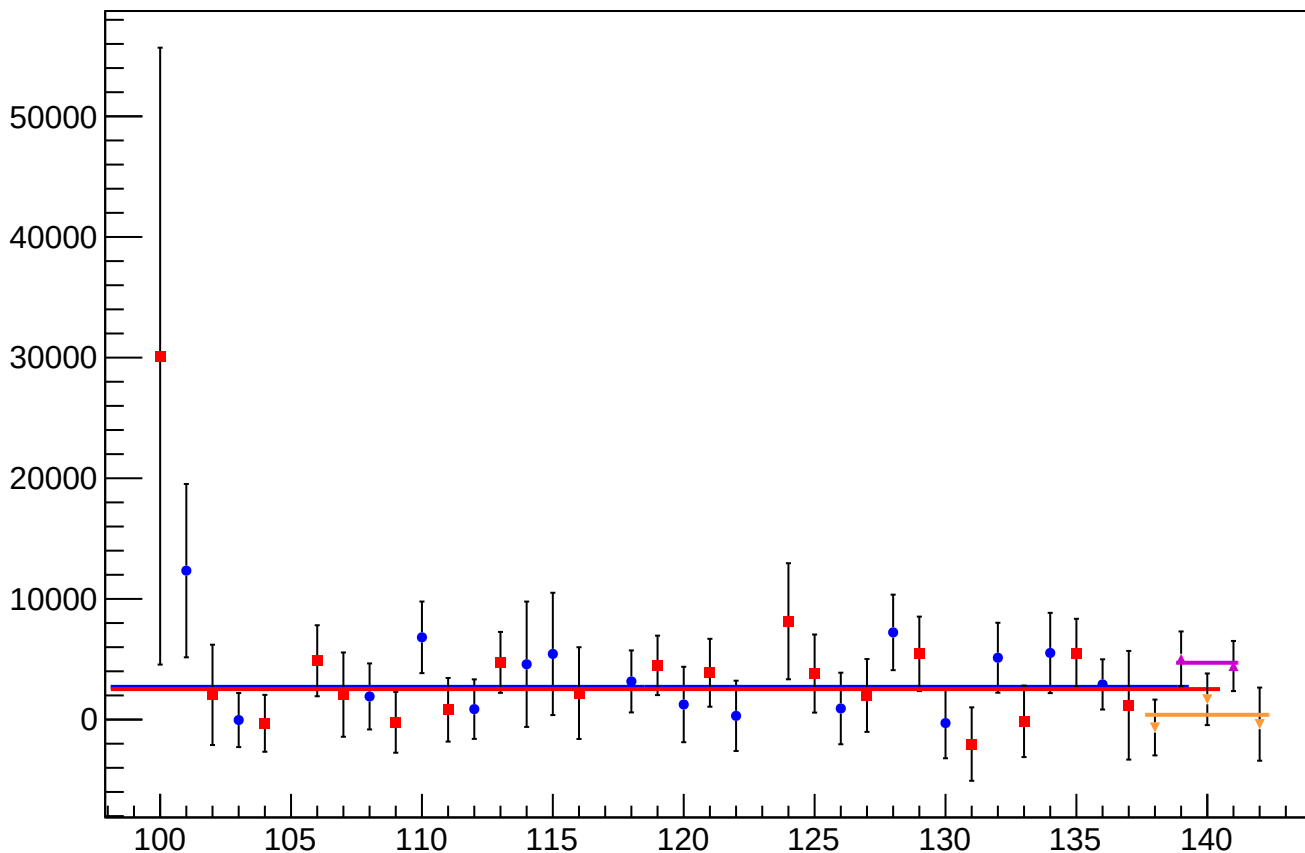
Right: 930.811 $\pm$ 0.177 χ^2 /NDF: 1453765.4/34

In: 993.381 $\pm$ 0.241 χ^2 /NDF: 834017.8/17

Out: 943.358 $\pm$ 0.222 χ^2 /NDF: 917880.8/21

All: 966.330 $\pm$ 0.164 χ^2 /NDF: 1775141.5/39

asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2711.394+/-735.088 χ^2/NDF : 12.1/15

Left Out: 394.790+/-1394.681 χ^2/NDF : 0.6/2

Right Out: 2525.536+/-706.449 χ^2/NDF : 13.2/18

Left In: 4708.931+/-1533.186 χ^2/NDF : 0.0/1

Left: 2348.233+/-1031.687 χ^2/NDF : 5.0/4

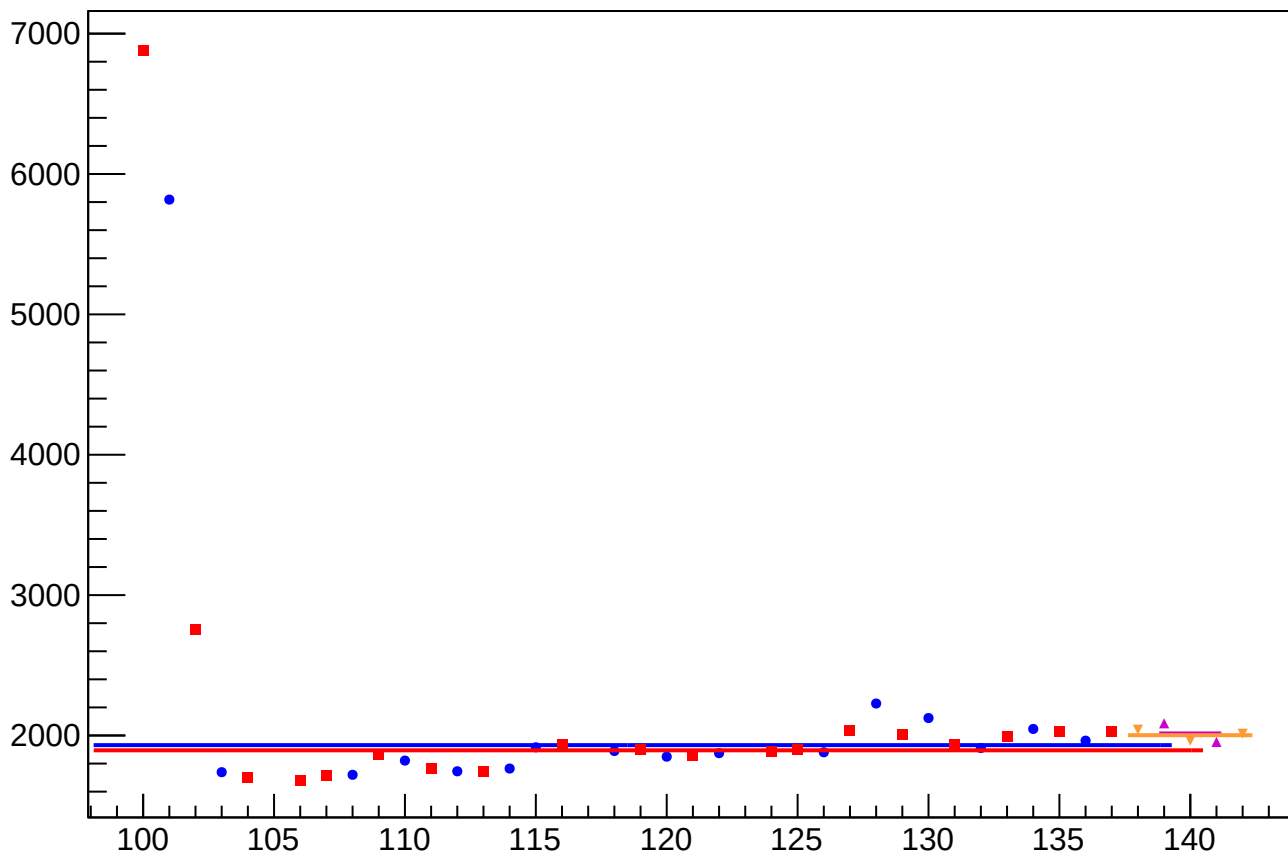
Right: 2614.774+/-509.359 χ^2/NDF : 25.4/34

In: 3084.751+/-662.841 χ^2/NDF : 13.5/17

Out: 2090.470+/-630.212 χ^2/NDF : 15.7/21

All: 2562.537+/-456.727 χ^2/NDF : 30.5/39

asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1931.250+/-0.520 χ^2/NDF : 661227.1/15

Left Out: 2001.981+/-0.986 χ^2/NDF :1263.5/2

Right Out: 1894.349+/-0.500 χ^2/NDF : 220541.1/18

Left In: 2014.598+/-1.084 χ^2/NDF :3711.7/1

Left: 2007.694+/-0.730 χ^2/NDF : 5049.3/4

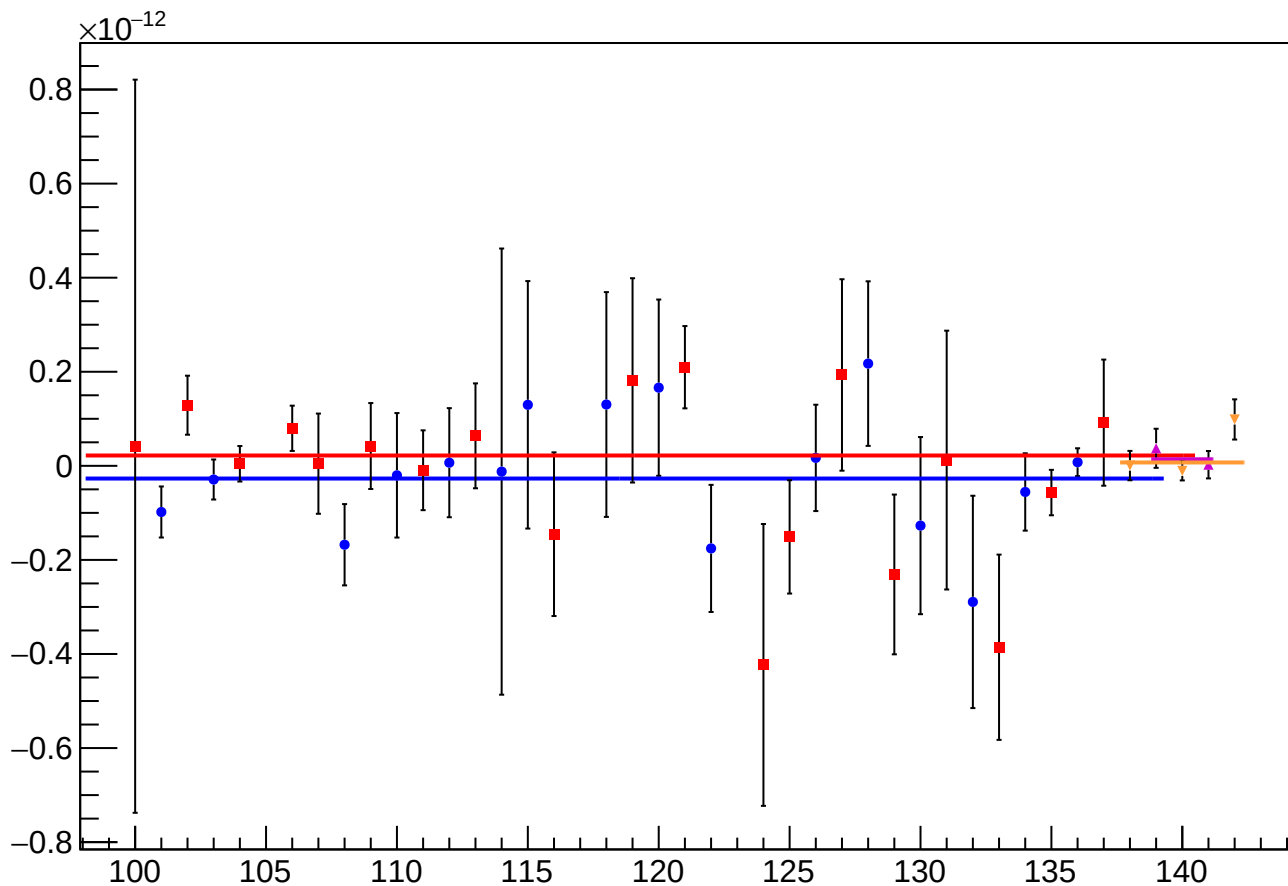
Right: 1912.067+/-0.360 χ^2/NDF : 884388.3/34

In: 1946.829+/-0.469 χ^2/NDF :669744.6/17

Out: 1916.326+/-0.446 χ^2/NDF :231284.0/21

All: 1930.808+/-0.323 χ^2/NDF : 903253.1/39

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 12.7/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 5.4/2$

Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 25.4/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.5/1$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 5.9/4$

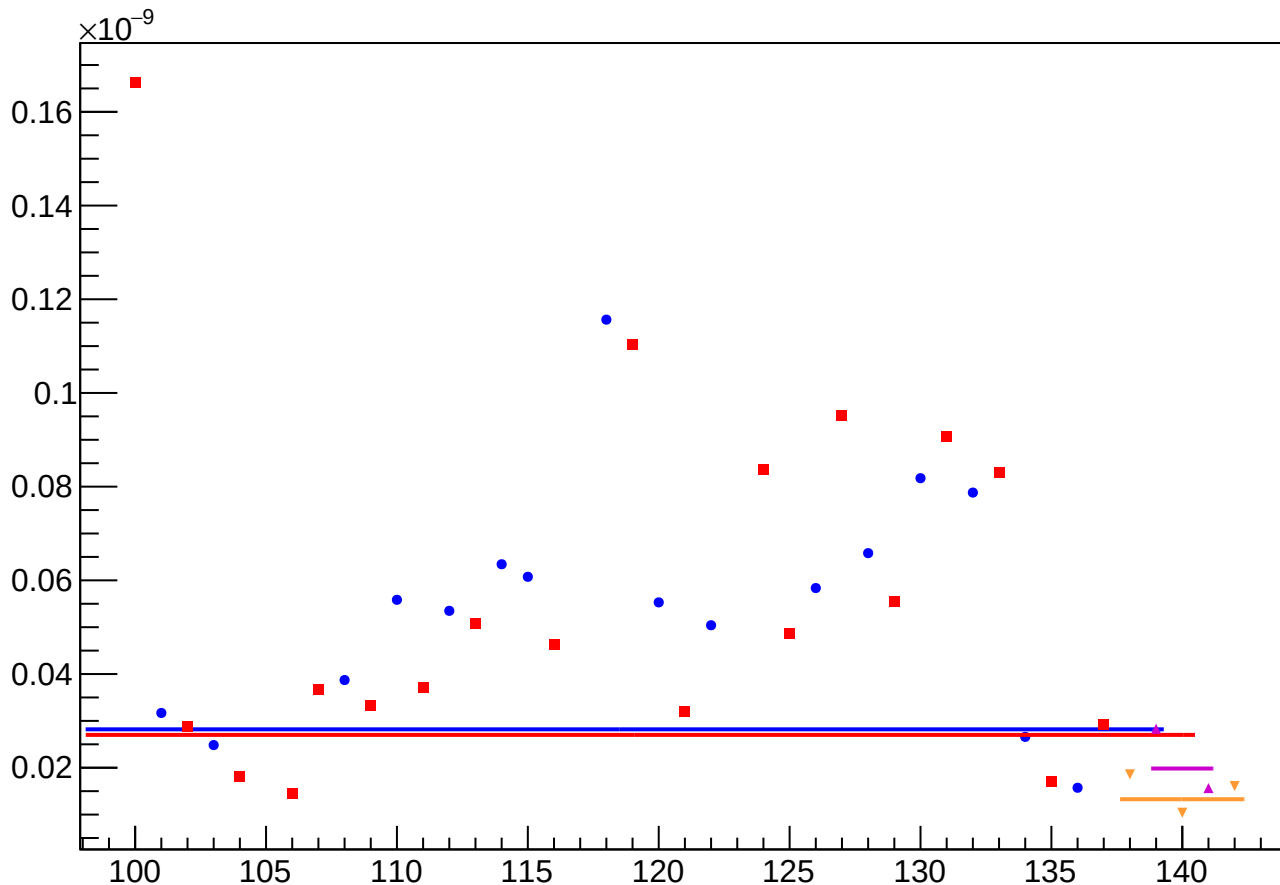
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 41.4/34$

In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 15.0/17$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 31.2/21$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 47.7/39$

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1490571.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :106762.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1556165.9/18

Left In: 0.000+/-0.000 χ^2/NDF :124426.6/1

Left: 0.000+/-0.000 χ^2/NDF : 336019.4/4

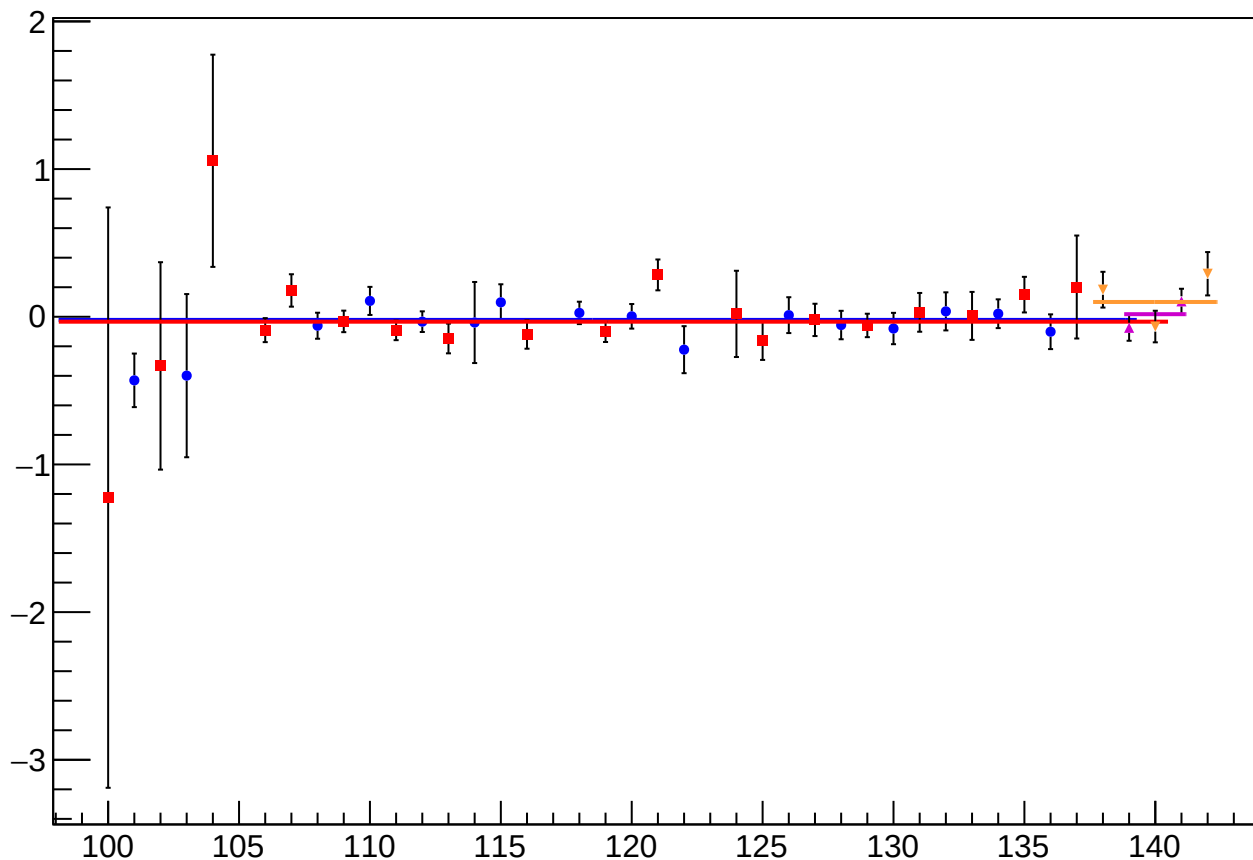
Right: 0.000+/-0.000 χ^2/NDF : 3050538.0/34

In: 0.000+/-0.000 χ^2/NDF :1764381.3/17

Out: 0.000+/-0.000 χ^2/NDF :2265828.7/21

All: 0.000+/-0.000 χ^2/NDF : 4232513.2/39

asym_usr_atr1_avg_dit_vs_Slug, Sign Corrected



Right In: -0.021 ± 0.027 $\chi^2/\text{NDF}: 12.0/15$

Left Out: 0.100 ± 0.070 $\chi^2/\text{NDF}: 4.6/2$

Right Out: -0.033 ± 0.025 $\chi^2/\text{NDF}: 24.4/18$

Left In: 0.018 ± 0.061 $\chi^2/\text{NDF}: 2.1/1$

Left: 0.053 ± 0.046 $\chi^2/\text{NDF}: 7.5/4$

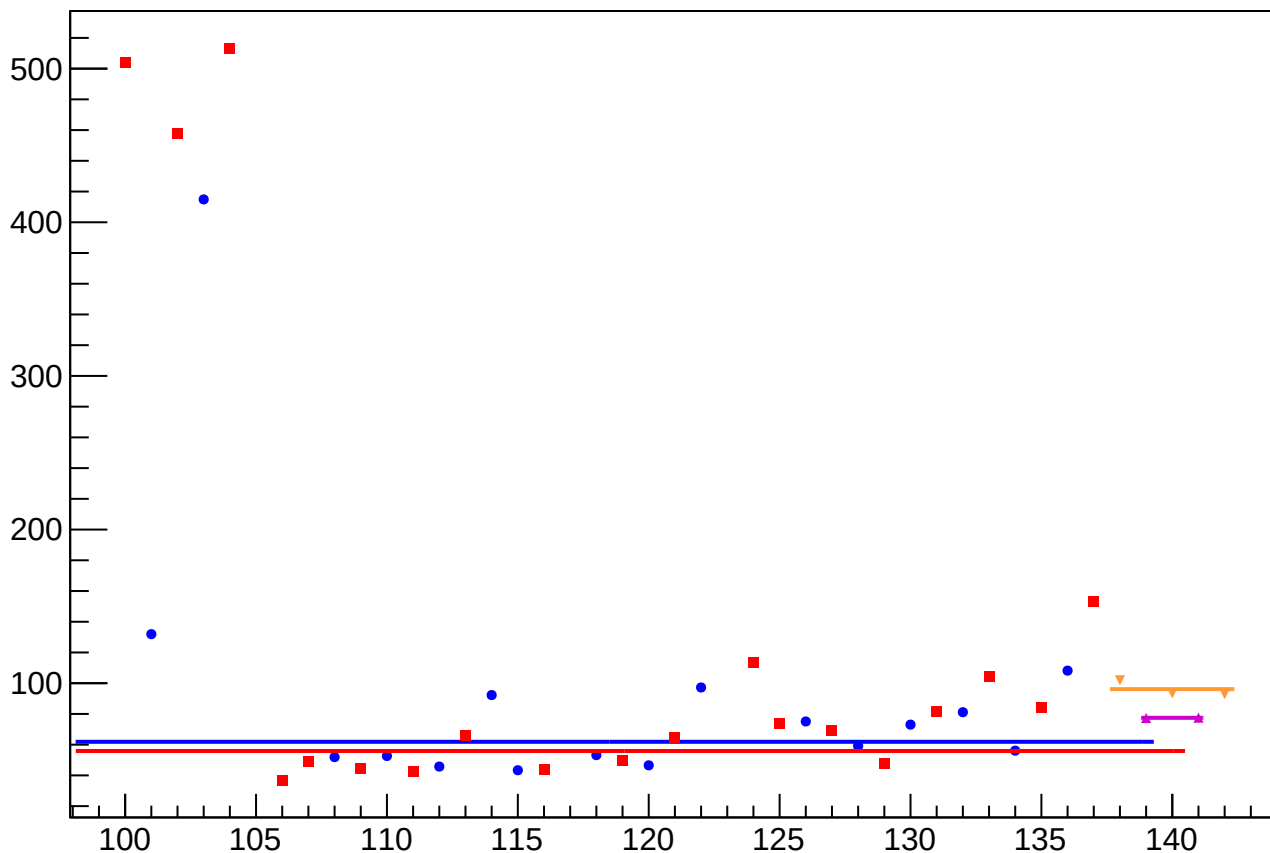
Right: -0.028 ± 0.018 $\chi^2/\text{NDF}: 36.5/34$

In: -0.015 ± 0.024 $\chi^2/\text{NDF}: 14.5/17$

Out: -0.019 ± 0.023 $\chi^2/\text{NDF}: 32.2/21$

All: -0.017 ± 0.017 $\chi^2/\text{NDF}: 46.7/39$

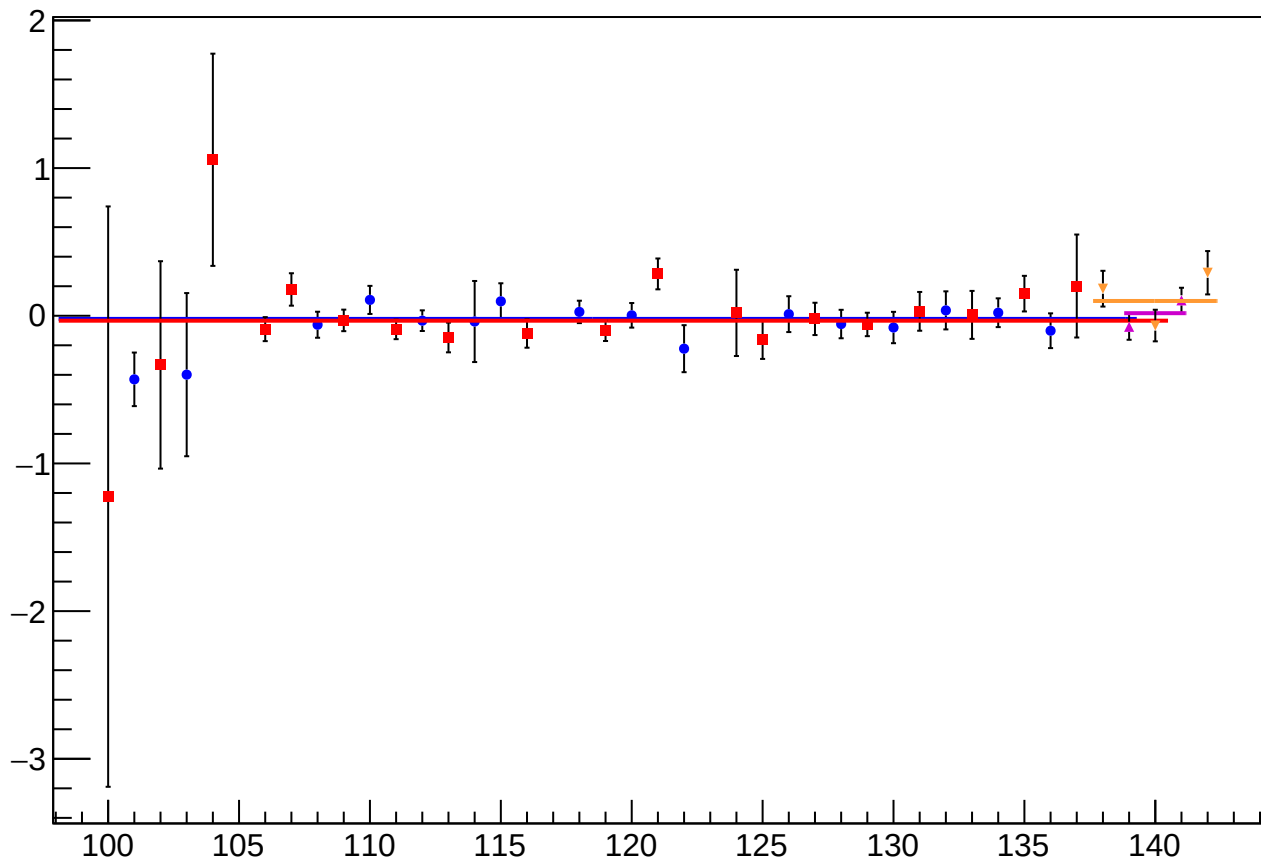
asym_usr_atr1_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 61.876 $\pm$ 0.019 χ^2 /NDF: 1937953.9/15
 Left Out: 96.126 $\pm$ 0.050 χ^2 /NDF: 6885.5/2
 Right Out: 55.887 $\pm$ 0.017 χ^2 /NDF: 2591275.8/18
 Left In: 77.474 $\pm$ 0.043 χ^2 /NDF: 6.9/1

Left: 85.513 $\pm$ 0.033 χ^2 /NDF: 86899.3/4
 Right: 58.651 $\pm$ 0.013 χ^2 /NDF: 4584001.9/34
 In: 64.346 $\pm$ 0.017 χ^2 /NDF: 2047237.4/17
 Out: 60.267 $\pm$ 0.016 χ^2 /NDF: 3181344.9/21
 All: 62.208 $\pm$ 0.012 χ^2 /NDF: 5257979.5/39

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.027 $\chi^2/\text{NDF}: 12.0/15$

Left Out: 0.100 ± 0.070 $\chi^2/\text{NDF}: 4.6/2$

Right Out: -0.033 ± 0.025 $\chi^2/\text{NDF}: 24.4/18$

Left In: 0.018 ± 0.061 $\chi^2/\text{NDF}: 2.1/1$

Left: 0.053 ± 0.046 $\chi^2/\text{NDF}: 7.5/4$

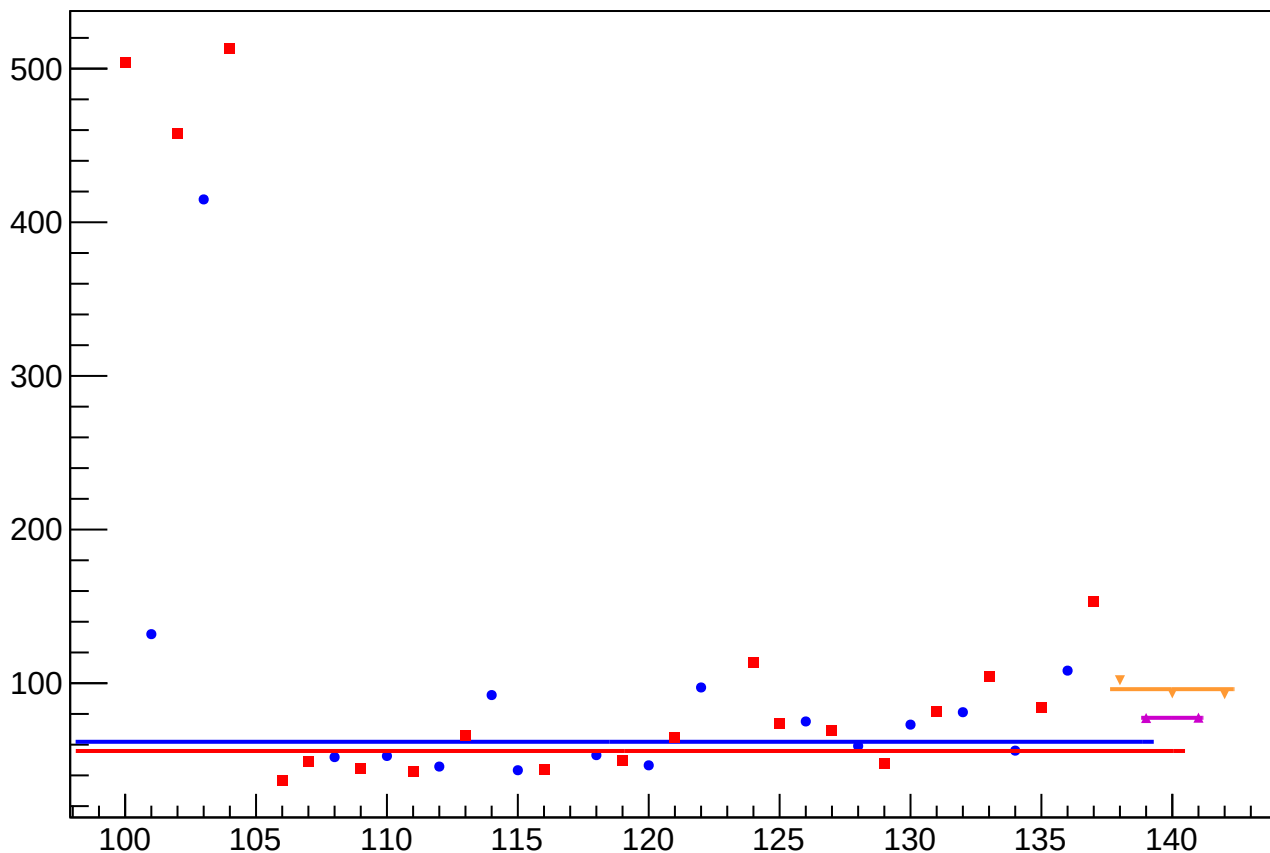
Right: -0.028 ± 0.018 $\chi^2/\text{NDF}: 36.5/34$

In: -0.015 ± 0.024 $\chi^2/\text{NDF}: 14.5/17$

Out: -0.019 ± 0.023 $\chi^2/\text{NDF}: 32.2/21$

All: -0.017 ± 0.017 $\chi^2/\text{NDF}: 46.7/39$

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 61.876 $\pm$ 0.019 χ^2 /NDF: 1937953.9/15

Left Out: 96.126 $\pm$ 0.050 χ^2 /NDF: 6885.5/2

Right Out: 55.887 $\pm$ 0.017 χ^2 /NDF: 2591275.8/18

Left In: 77.474 $\pm$ 0.043 χ^2 /NDF: 6.9/1

Left: 85.513 $\pm$ 0.033 χ^2 /NDF: 86899.3/4

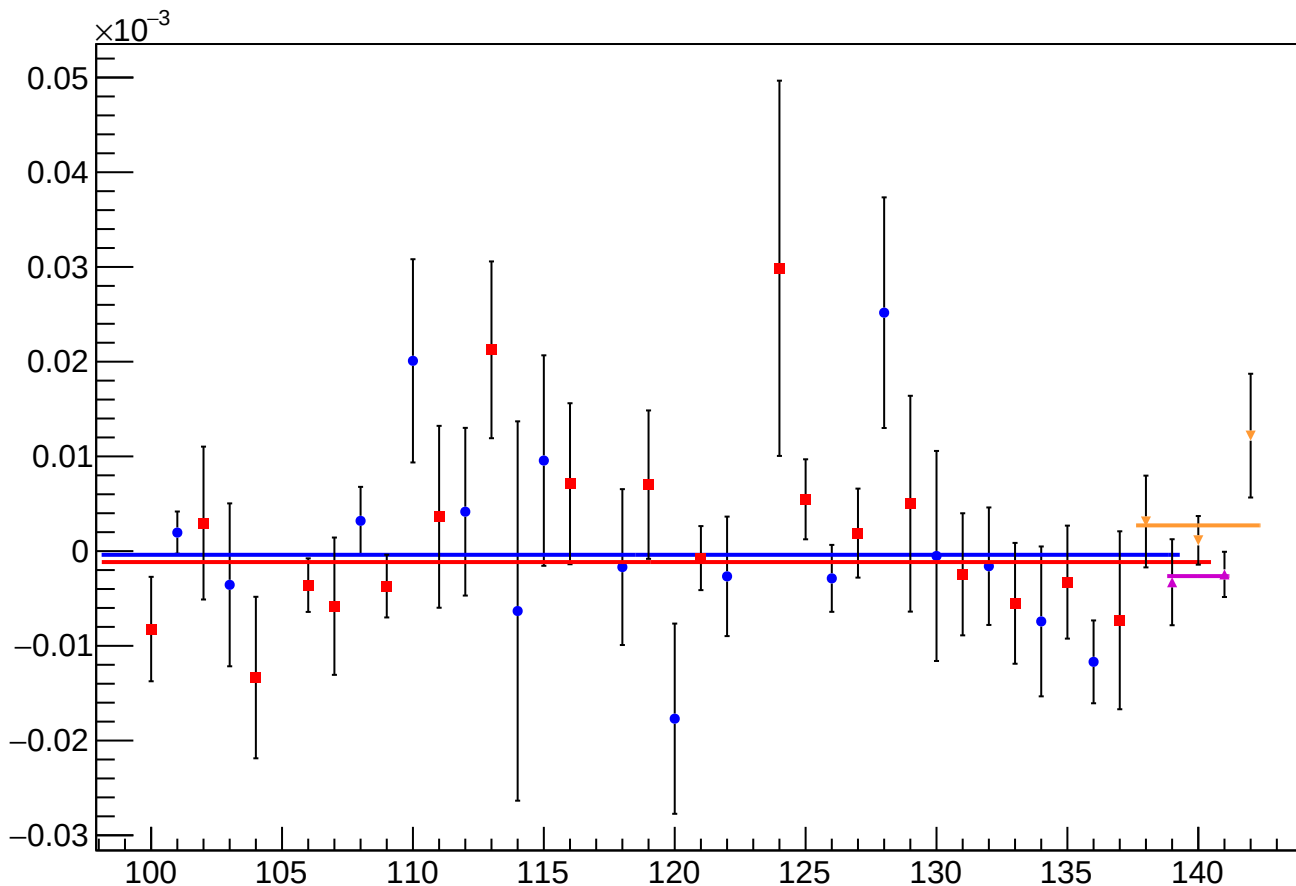
Right: 58.651 $\pm$ 0.013 χ^2 /NDF: 4584001.9/34

In: 64.346 $\pm$ 0.017 χ^2 /NDF: 2047237.4/17

Out: 60.267 $\pm$ 0.016 χ^2 /NDF: 3181344.9/21

All: 62.208 $\pm$ 0.012 χ^2 /NDF: 5257979.5/39

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 22.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.5/2

Right Out: -0.000+/-0.000 χ^2/NDF : 20.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 5.7/4

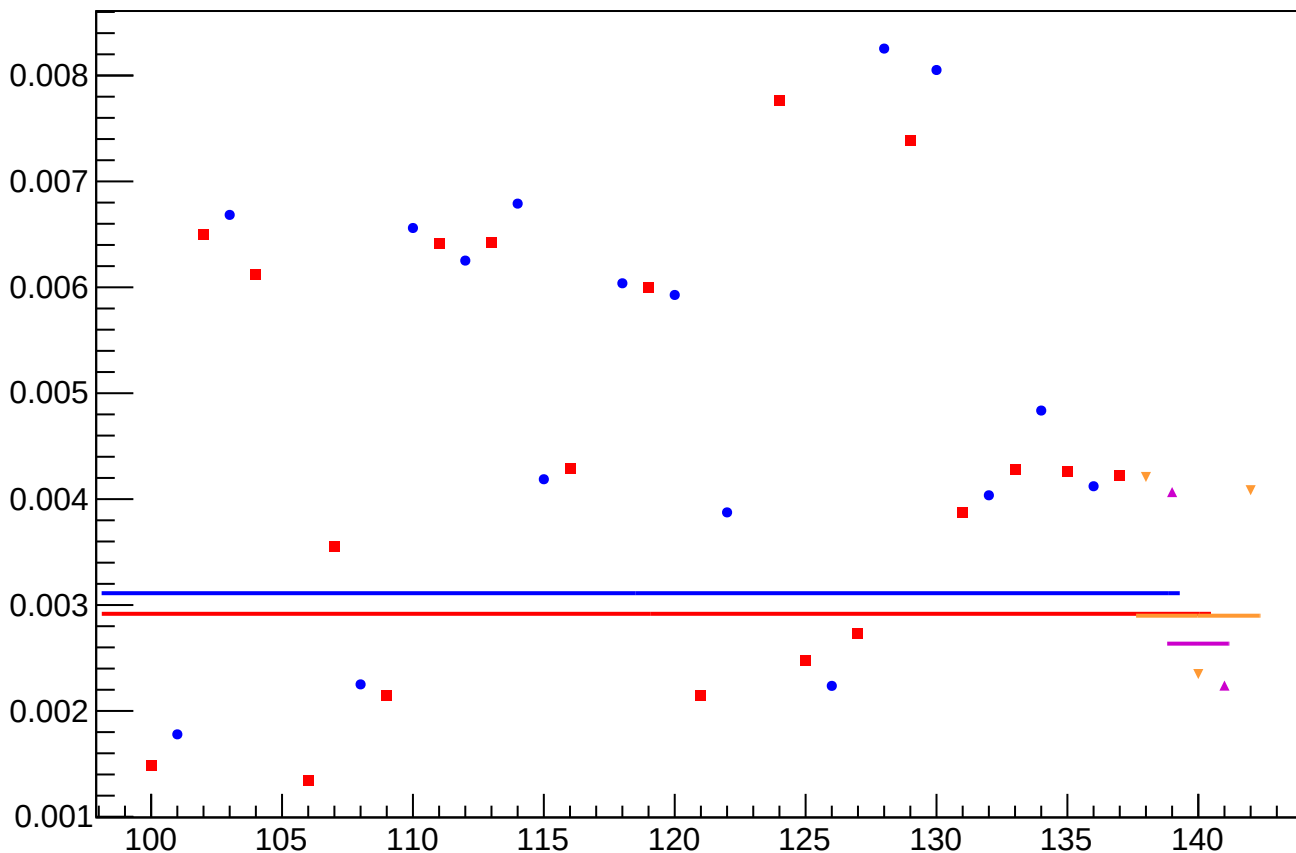
Right: -0.000+/-0.000 χ^2/NDF : 43.2/34

In: -0.000+/-0.000 χ^2/NDF : 23.4/17

Out: -0.000+/-0.000 χ^2/NDF : 25.4/21

All: -0.000+/-0.000 χ^2/NDF : 49.1/39

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000

χ^2/NDF : 3283915.1/15

Left Out: 0.003+/-0.000

χ^2/NDF :304242.2/2

Right Out: 0.003+/-0.000

χ^2/NDF : 3295506.1/18

Left In: 0.003+/-0.000

χ^2/NDF :253783.9/1

Left: 0.003+/-0.000

χ^2/NDF : 573400.1/4

Right: 0.003+/-0.000

χ^2/NDF : 6602078.2/34

In: 0.003+/-0.000

χ^2/NDF :3610438.8/17

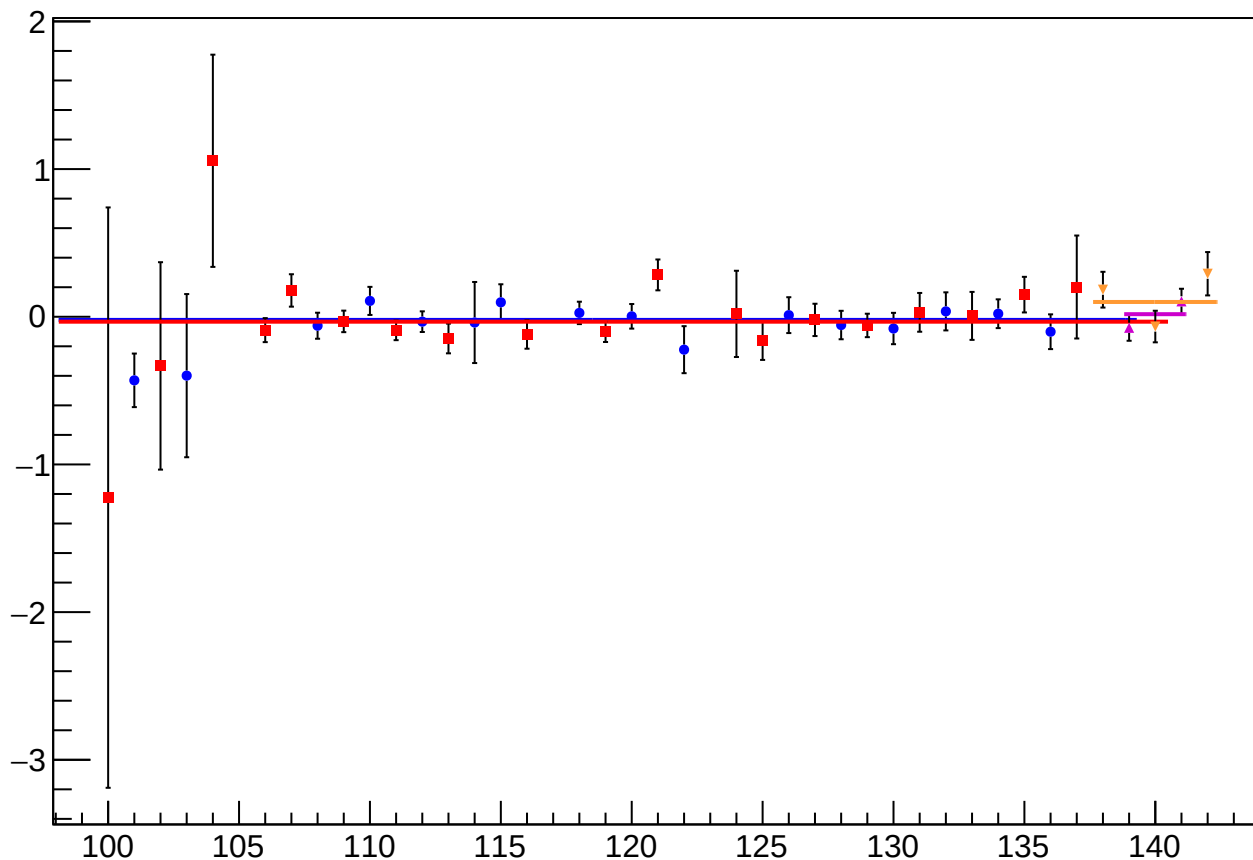
Out: 0.003+/-0.000

χ^2/NDF :3599852.2/21

All: 0.003+/-0.000

χ^2/NDF : 7213627.3/39

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.027 $\chi^2/\text{NDF}: 12.0/15$

Left Out: 0.100 ± 0.070 $\chi^2/\text{NDF}: 4.6/2$

Right Out: -0.033 ± 0.025 $\chi^2/\text{NDF}: 24.4/18$

Left In: 0.018 ± 0.061 $\chi^2/\text{NDF}: 2.1/1$

Left: 0.053 ± 0.046 $\chi^2/\text{NDF}: 7.5/4$

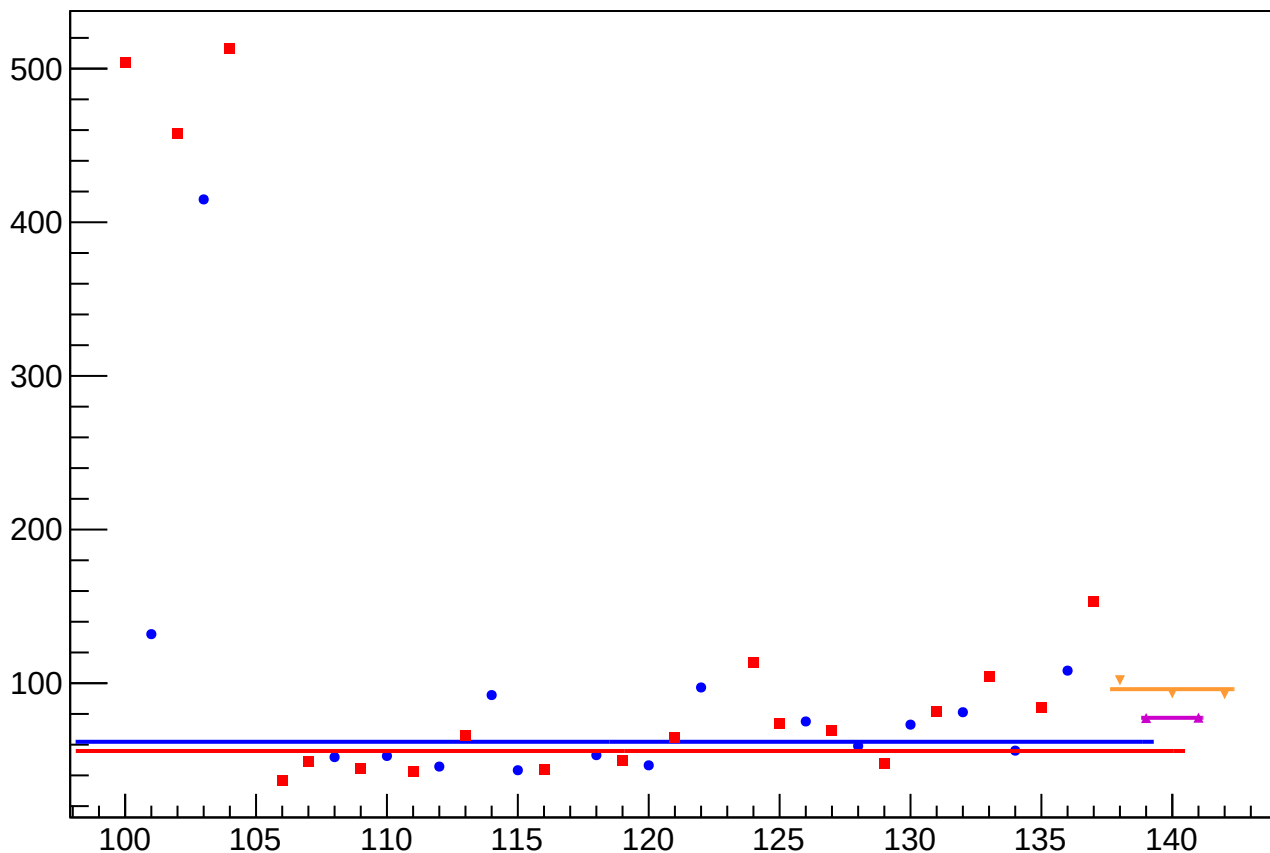
Right: -0.028 ± 0.018 $\chi^2/\text{NDF}: 36.5/34$

In: -0.015 ± 0.024 $\chi^2/\text{NDF}: 14.5/17$

Out: -0.019 ± 0.023 $\chi^2/\text{NDF}: 32.2/21$

All: -0.017 ± 0.017 $\chi^2/\text{NDF}: 46.7/39$

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 61.875 $\pm$ 0.019 χ^2 /NDF: 1937904.4/15

Left Out: 96.126 $\pm$ 0.050 χ^2 /NDF: 6886.1/2

Right Out: 55.886 $\pm$ 0.017 χ^2 /NDF: 2591233.7/18

Left In: 77.475 $\pm$ 0.043 χ^2 /NDF: 6.8/1

Left: 85.513 $\pm$ 0.033 χ^2 /NDF: 86899.9/4

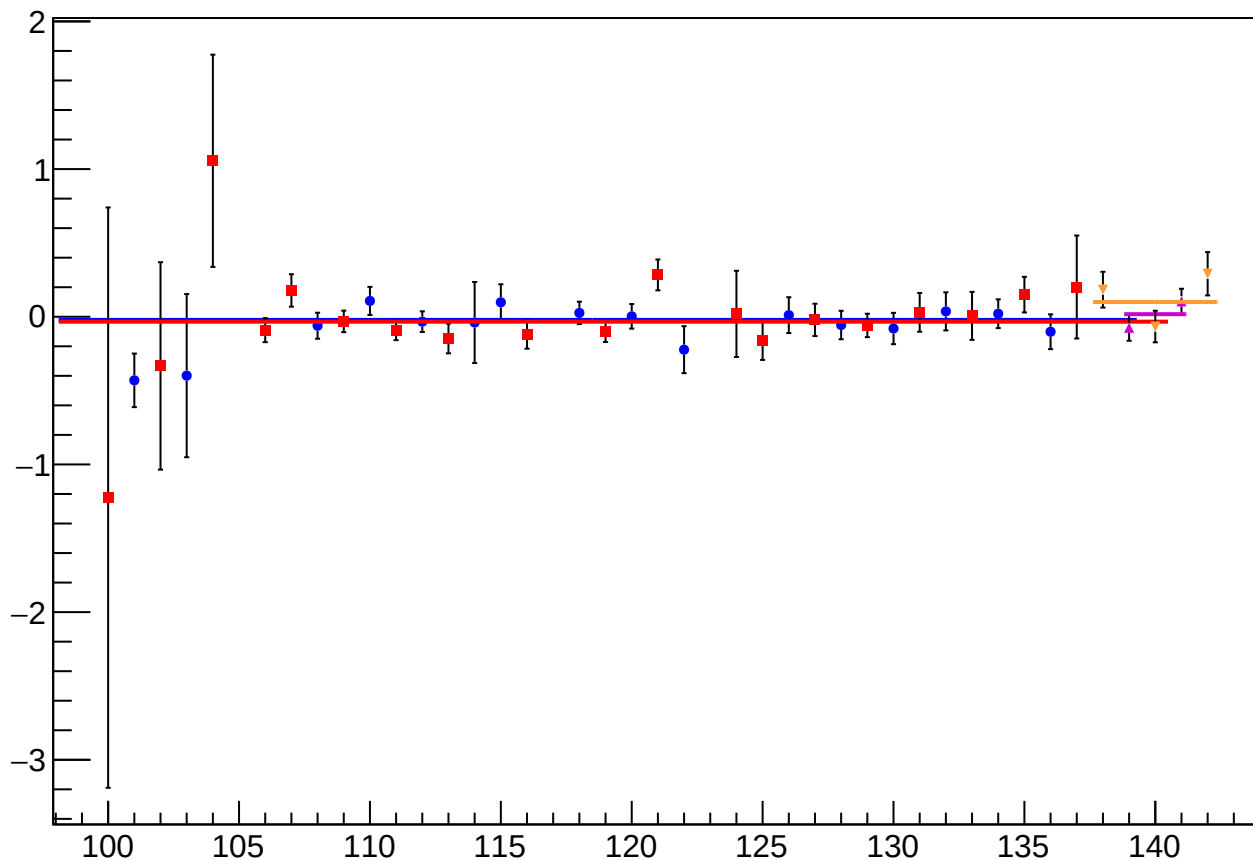
Right: 58.650 $\pm$ 0.013 χ^2 /NDF: 4583914.2/34

In: 64.346 $\pm$ 0.017 χ^2 /NDF: 2047200.1/17

Out: 60.266 $\pm$ 0.016 χ^2 /NDF: 3181334.4/21

All: 62.207 $\pm$ 0.012 χ^2 /NDF: 5257935.7/39

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.027 $\chi^2/\text{NDF}: 12.0/15$

Left Out: 0.100 ± 0.070 $\chi^2/\text{NDF}: 4.6/2$

Right Out: -0.033 ± 0.025 $\chi^2/\text{NDF}: 24.4/18$

Left In: 0.018 ± 0.061 $\chi^2/\text{NDF}: 2.1/1$

Left: 0.053 ± 0.046 $\chi^2/\text{NDF}: 7.5/4$

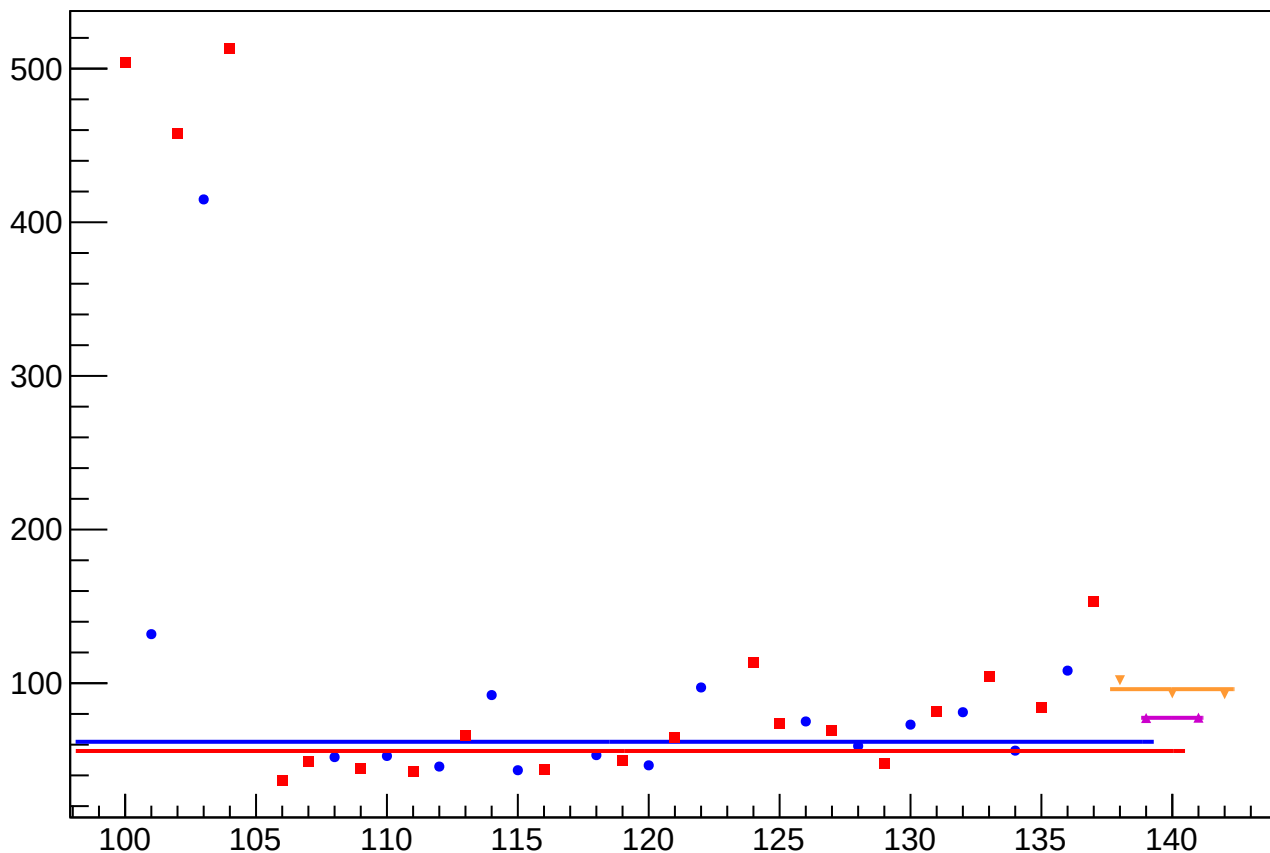
Right: -0.028 ± 0.018 $\chi^2/\text{NDF}: 36.5/34$

In: -0.015 ± 0.024 $\chi^2/\text{NDF}: 14.5/17$

Out: -0.019 ± 0.023 $\chi^2/\text{NDF}: 32.2/21$

All: -0.017 ± 0.017 $\chi^2/\text{NDF}: 46.7/39$

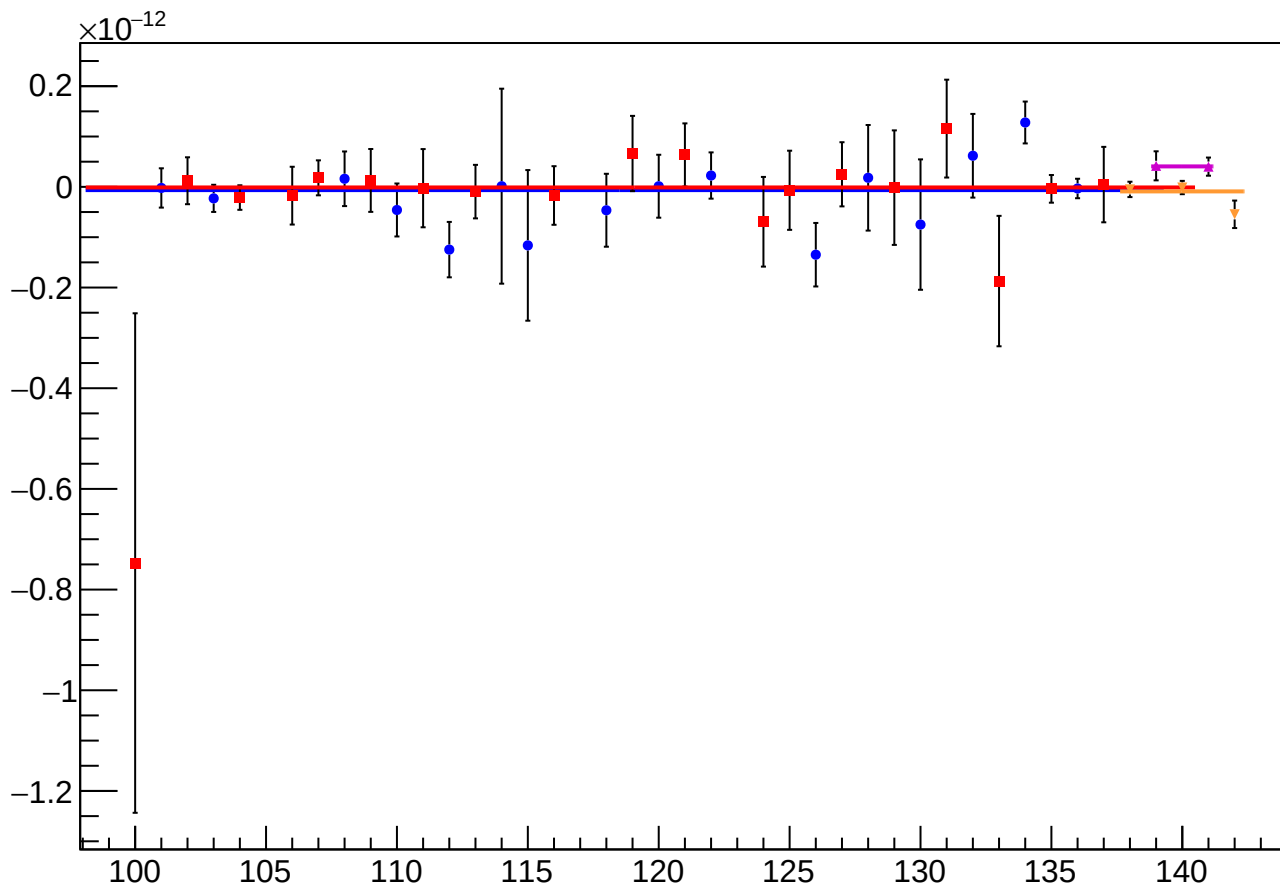
asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 61.875+/-0.019 χ^2/NDF : 1937904.4/15
 Left Out: 96.126+/-0.050 χ^2/NDF : 6886.1/2
 Right Out: 55.886+/-0.017 χ^2/NDF : 2591233.7/18
 Left In: 77.475+/-0.043 χ^2/NDF : 6.8/1

Left: 85.513+/-0.033 χ^2/NDF : 86899.9/4
 Right: 58.650+/-0.013 χ^2/NDF : 4583914.2/34
 In: 64.346+/-0.017 χ^2/NDF : 2047200.1/17
 Out: 60.266+/-0.016 χ^2/NDF : 3181334.4/21
 All: 62.207+/-0.012 χ^2/NDF : 5257935.7/39

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 22.6/15

Left Out: -0.000+/-0.000 χ^2 /NDF:3.2/2

Right Out: -0.000+/-0.000 χ^2 /NDF: 9.7/18

Left In: 0.000+/-0.000 χ^2 /NDF:0.0/1

Left: 0.000+/-0.000 χ^2 /NDF: 10.9/4

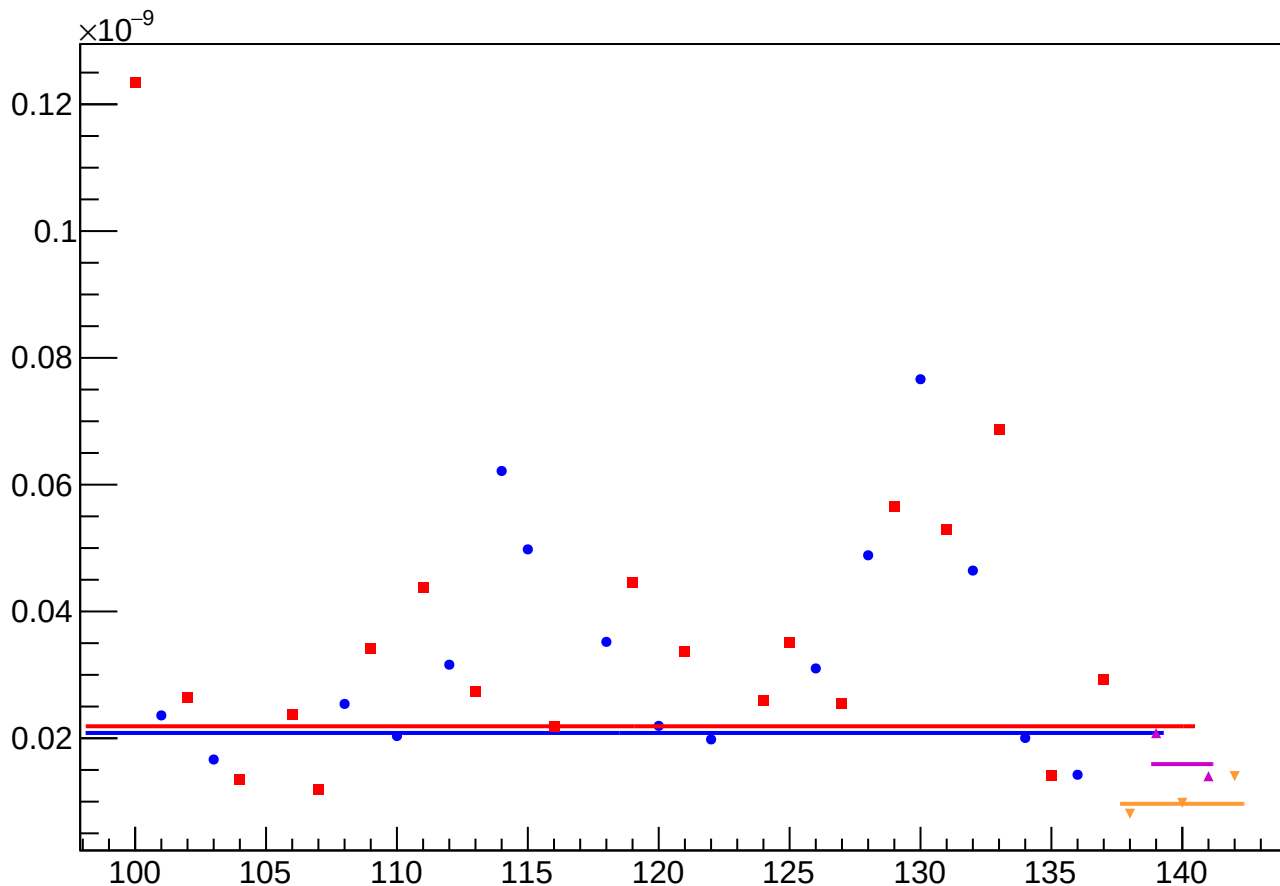
Right: -0.000+/-0.000 χ^2 /NDF: 32.4/34

In: 0.000+/-0.000 χ^2 /NDF:28.7/17

Out: -0.000+/-0.000 χ^2 /NDF:13.2/21

All: 0.000+/-0.000 χ^2 /NDF: 43.8/39

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1384606.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 72490.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1906656.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 80001.9/1

Left: 0.000+/-0.000 χ^2/NDF : 396341.3/4

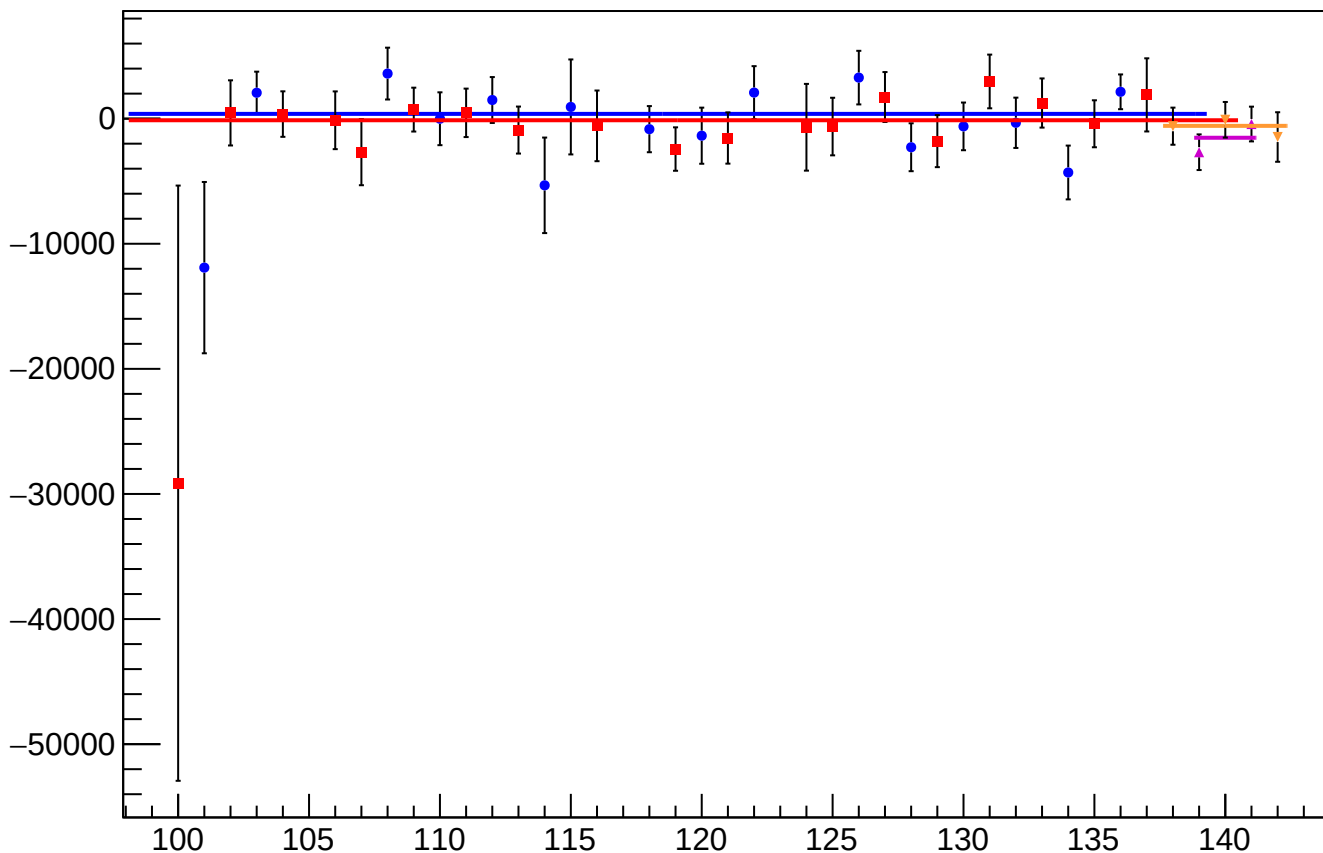
Right: 0.000+/-0.000 χ^2/NDF : 3299556.5/34

In: 0.000+/-0.000 χ^2/NDF : 1598408.0/17

Out: 0.000+/-0.000 χ^2/NDF : 3282924.0/21

All: 0.000+/-0.000 χ^2/NDF : 5212045.4/39

reg_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 381.403 ± 517.789 $\chi^2/\text{NDF}: 21.5/15$

Left Out: -575.997 ± 911.785 $\chi^2/\text{NDF}: 0.3/2$

Right Out: -127.929 ± 500.988 $\chi^2/\text{NDF}: 10.0/18$

Left In: -1526.990 ± 994.584 $\chi^2/\text{NDF}: 1.3/1$

Left: -1010.267 ± 672.098 $\chi^2/\text{NDF}: 2.1/4$

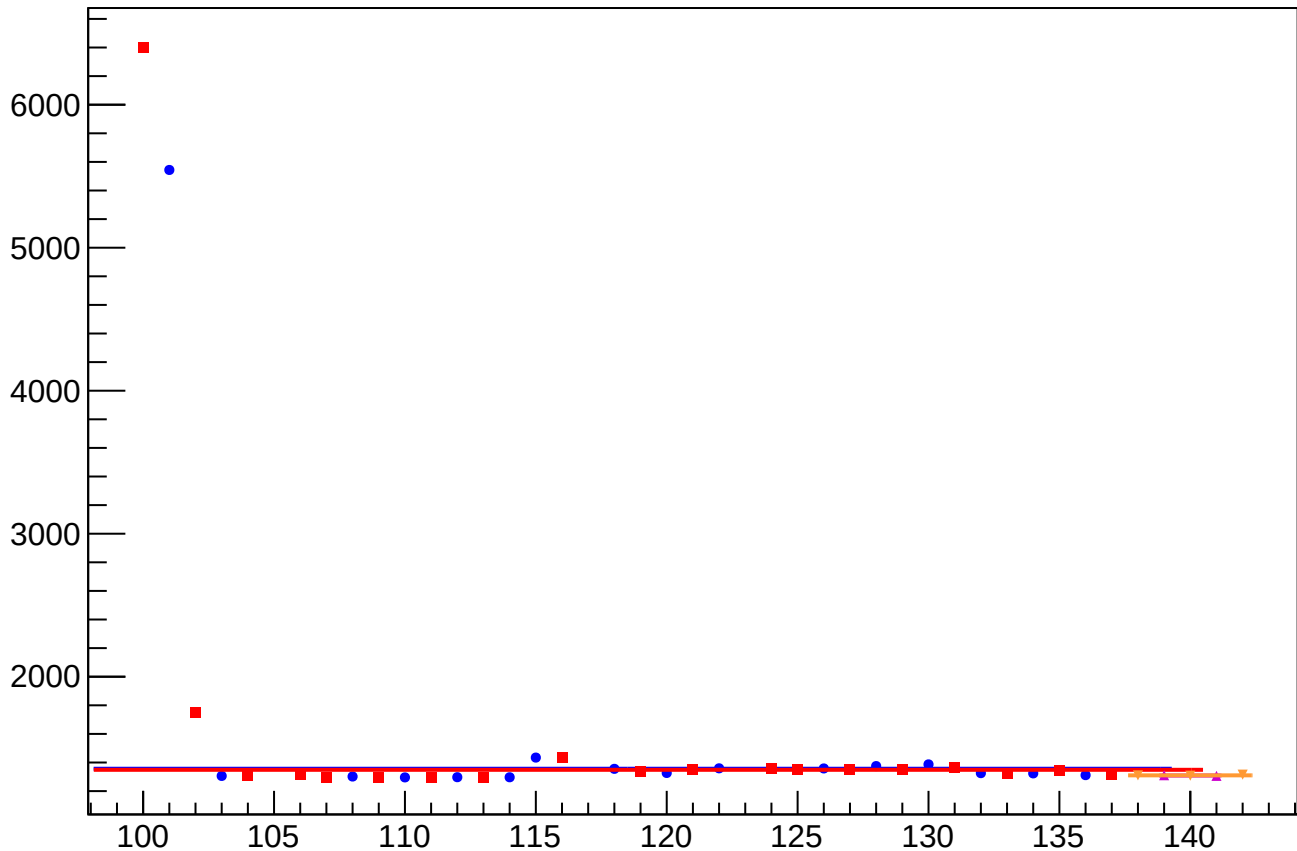
Right: 118.340 ± 360.045 $\chi^2/\text{NDF}: 32.0/34$

In: -25.540 ± 459.277 $\chi^2/\text{NDF}: 25.7/17$

Out: -231.834 ± 439.074 $\chi^2/\text{NDF}: 10.5/21$

All: -133.324 ± 317.374 $\chi^2/\text{NDF}: 36.3/39$

reg_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1356.397+/-0.366 χ^2/NDF : 760266.3/15

Left Out: 1310.233+/-0.645 χ^2/NDF :18.0/2

Right Out: 1348.975+/-0.354 χ^2/NDF : 147265.6/18

Left In: 1308.853+/-0.703 χ^2/NDF :10.0/1

Left: 1309.603+/-0.475 χ^2/NDF : 30.1/4

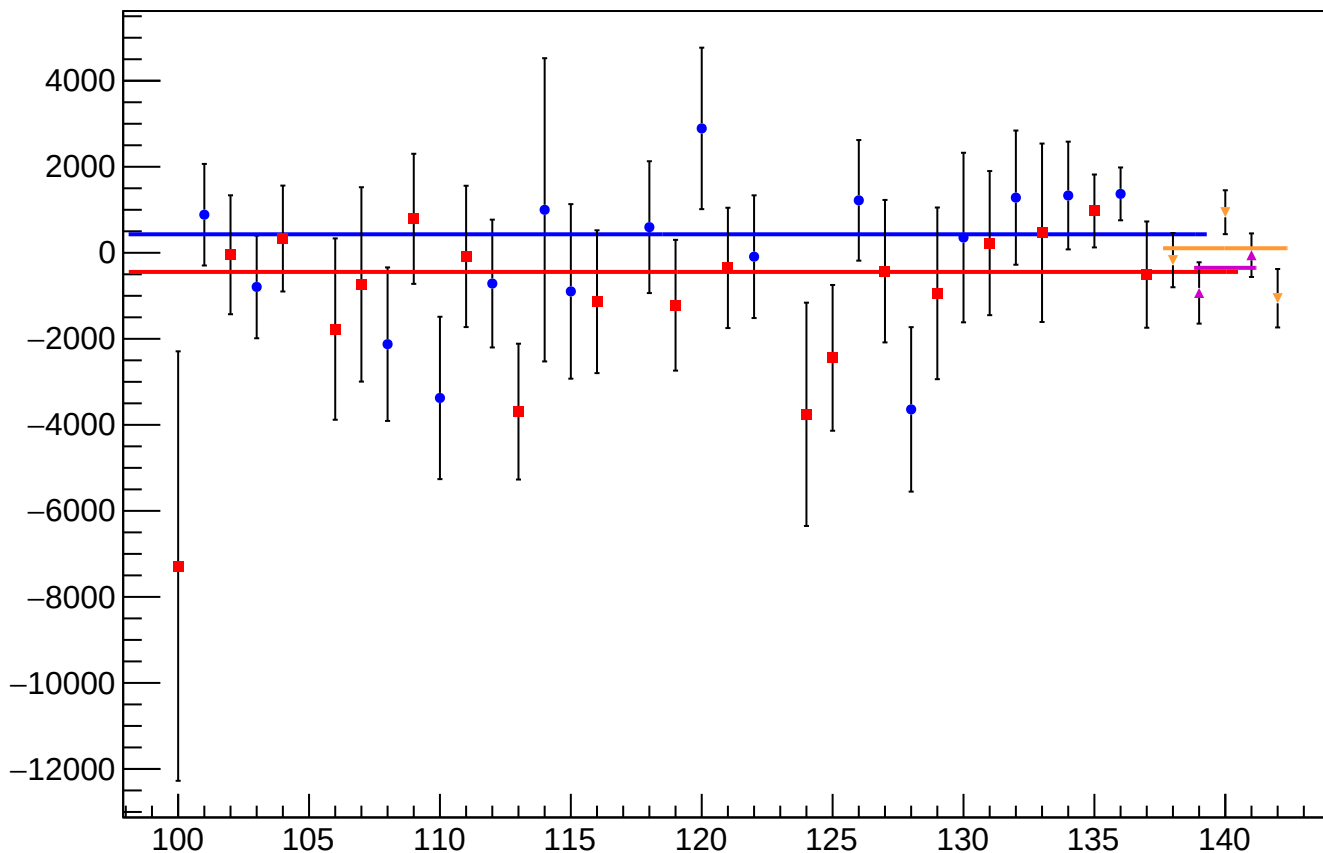
Right: 1352.564+/-0.255 χ^2/NDF : 907744.1/34

In: 1346.259+/-0.325 χ^2/NDF :763872.1/17

Out: 1339.991+/-0.310 χ^2/NDF :150057.1/21

All: 1342.984+/-0.224 χ^2/NDF : 914123.8/39

asym_usr_atr1_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 430.363 $\pm$ 338.459 χ^2 /NDF: 18.2/15

Left Out: 106.309 $\pm$ 342.379 χ^2 /NDF:5.8/2

Right Out: -444.555 $\pm$ 355.594 χ^2 /NDF: 14.4/18

Left In: -349.563 $\pm$ 412.767 χ^2 /NDF:1.0/1

Left: -79.501 $\pm$ 263.522 χ^2 /NDF: 7.5/4

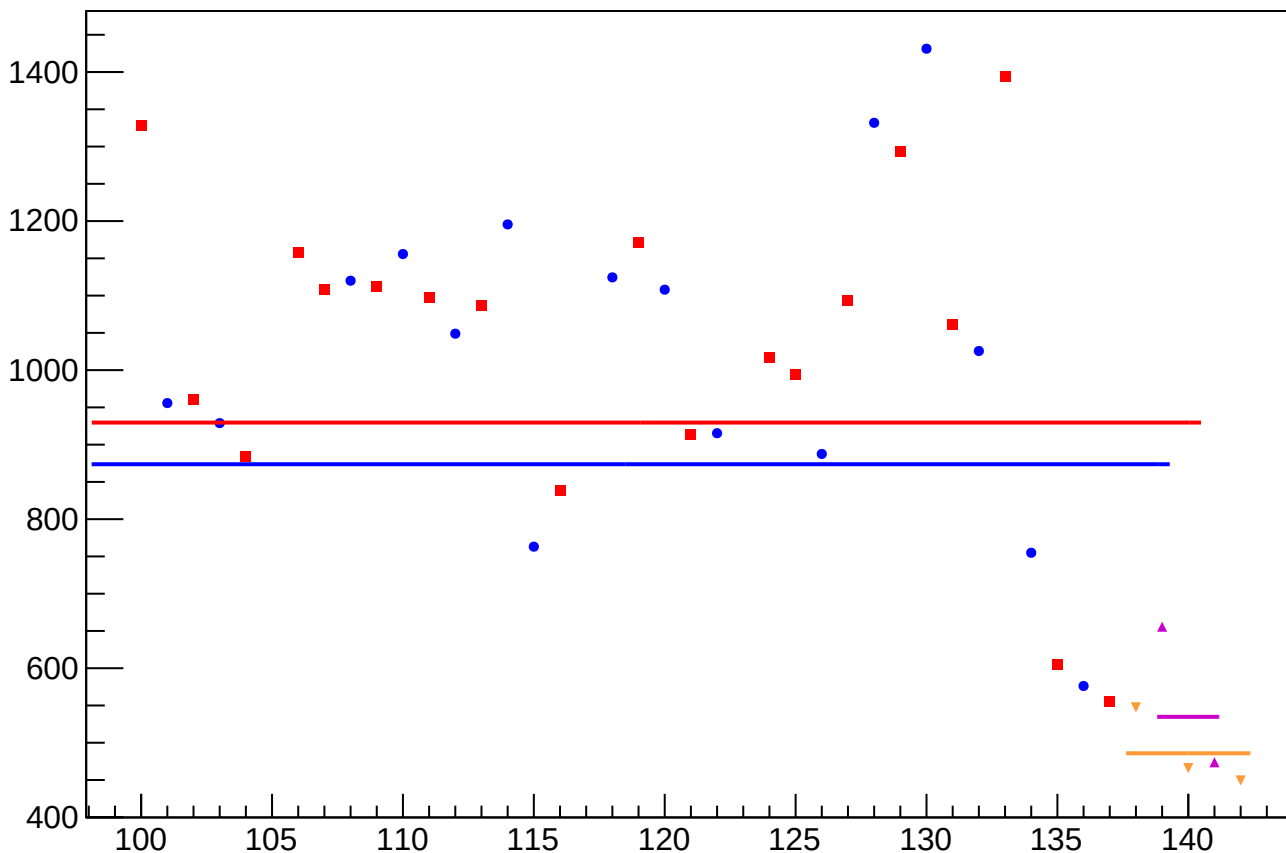
Right: 14.491 $\pm$ 245.161 χ^2 /NDF: 35.8/34

In: 116.799 $\pm$ 261.723 χ^2 /NDF:21.4/17

Out: -158.697 $\pm$ 246.638 χ^2 /NDF:21.4/21

All: -29.117 $\pm$ 179.495 χ^2 /NDF: 43.4/39

asym_usr_atr1_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 873.733 $\pm$ 0.239 χ^2 /NDF: 1014860.8/15

Left Out: 485.853 $\pm$ 0.242 χ^2 /NDF: 27949.0/2

Right Out: 929.637 $\pm$ 0.251 χ^2 /NDF: 859936.0/18

Left In: 534.769 $\pm$ 0.292 χ^2 /NDF: 86570.0/1

Left: 505.791 $\pm$ 0.186 χ^2 /NDF: 131159.2/4

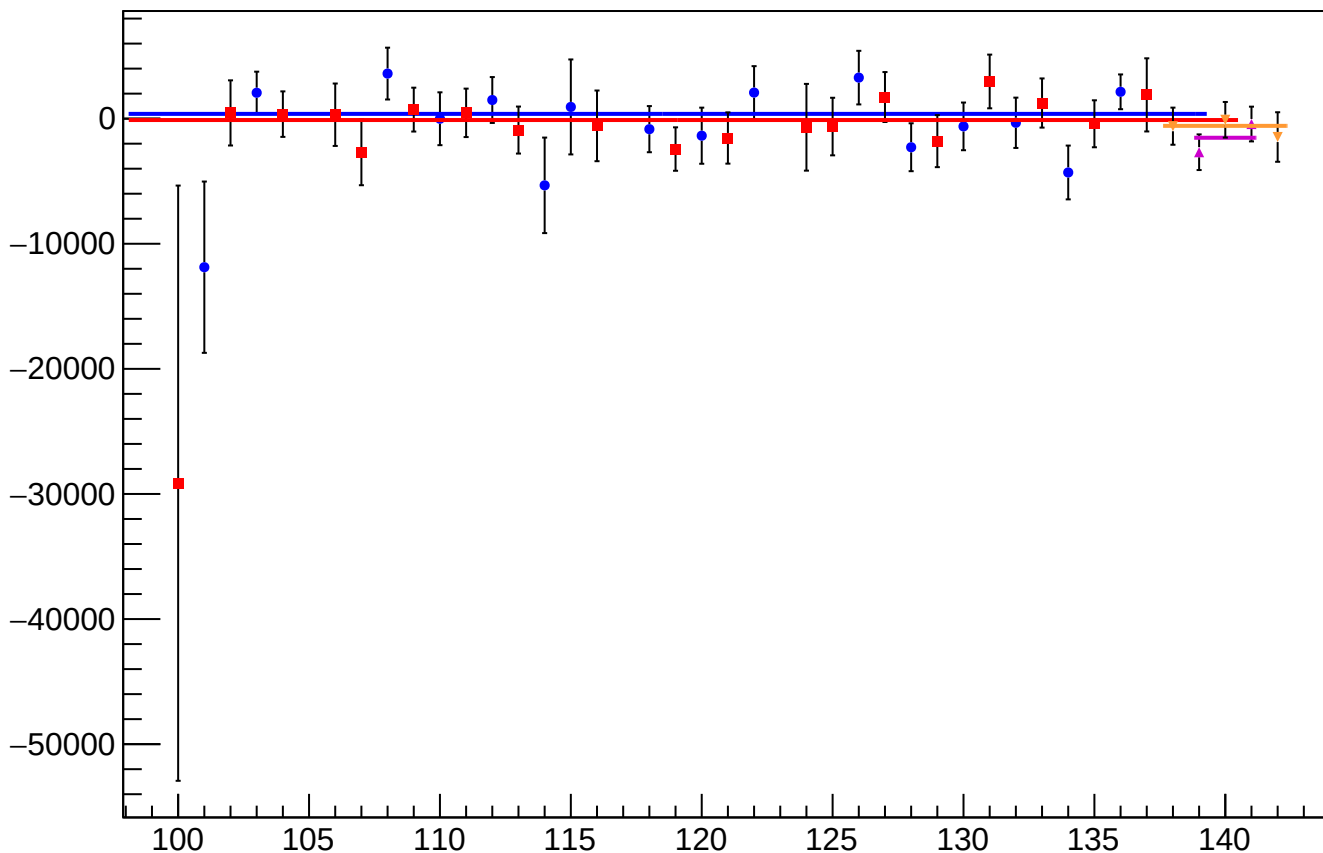
Right: 900.305 $\pm$ 0.173 χ^2 /NDF: 1900732.3/34

In: 737.454 $\pm$ 0.185 χ^2 /NDF: 1907915.0/17

Out: 699.345 $\pm$ 0.174 χ^2 /NDF: 2504365.7/21

All: 717.270 $\pm$ 0.127 χ^2 /NDF: 4434740.4/39

cor_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 381.712 ± 517.789 χ^2/NDF : 21.5/15

Left Out: -576.063 ± 911.785 χ^2/NDF : 0.3/2

Right Out: -110.280 ± 502.698 χ^2/NDF : 10.0/18

Left In: -1527.157 ± 994.584 χ^2/NDF : 1.3/1

Left: -1010.379 ± 672.098 χ^2/NDF : 2.1/4

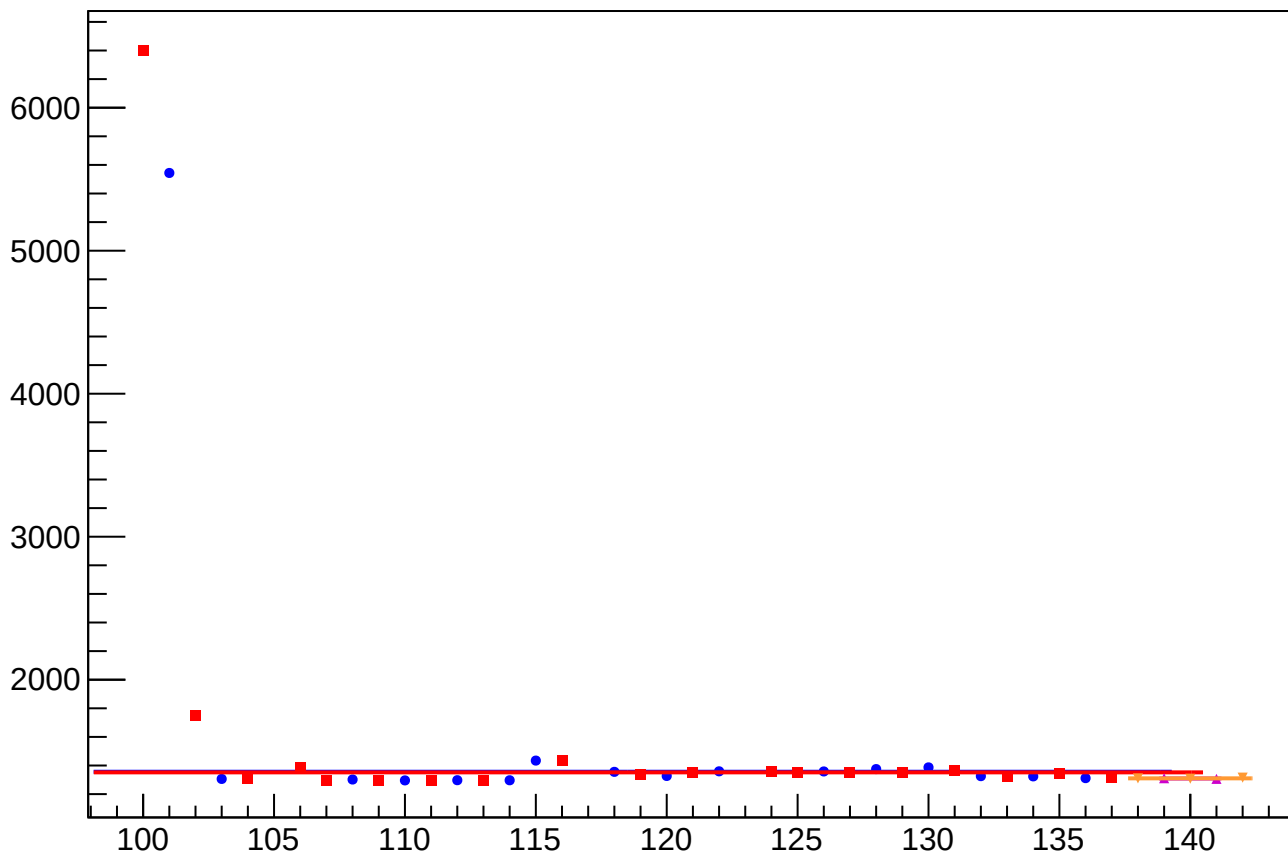
Right: 128.442 ± 360.678 χ^2/NDF : 32.0/34

In: -25.333 ± 459.277 χ^2/NDF : 25.7/17

Out: -218.859 ± 440.224 χ^2/NDF : 10.5/21

All: -126.193 ± 317.808 χ^2/NDF : 36.3/39

cor_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1356.397 $\pm$ 0.366 χ^2 /NDF: 760265.4/15

Left Out: 1310.233 $\pm$ 0.645 χ^2 /NDF:18.0/2

Right Out: 1352.083 $\pm$ 0.355 χ^2 /NDF: 147326.5/18

Left In: 1308.853 $\pm$ 0.703 χ^2 /NDF:10.0/1

Left: 1309.603 $\pm$ 0.475 χ^2 /NDF: 30.1/4

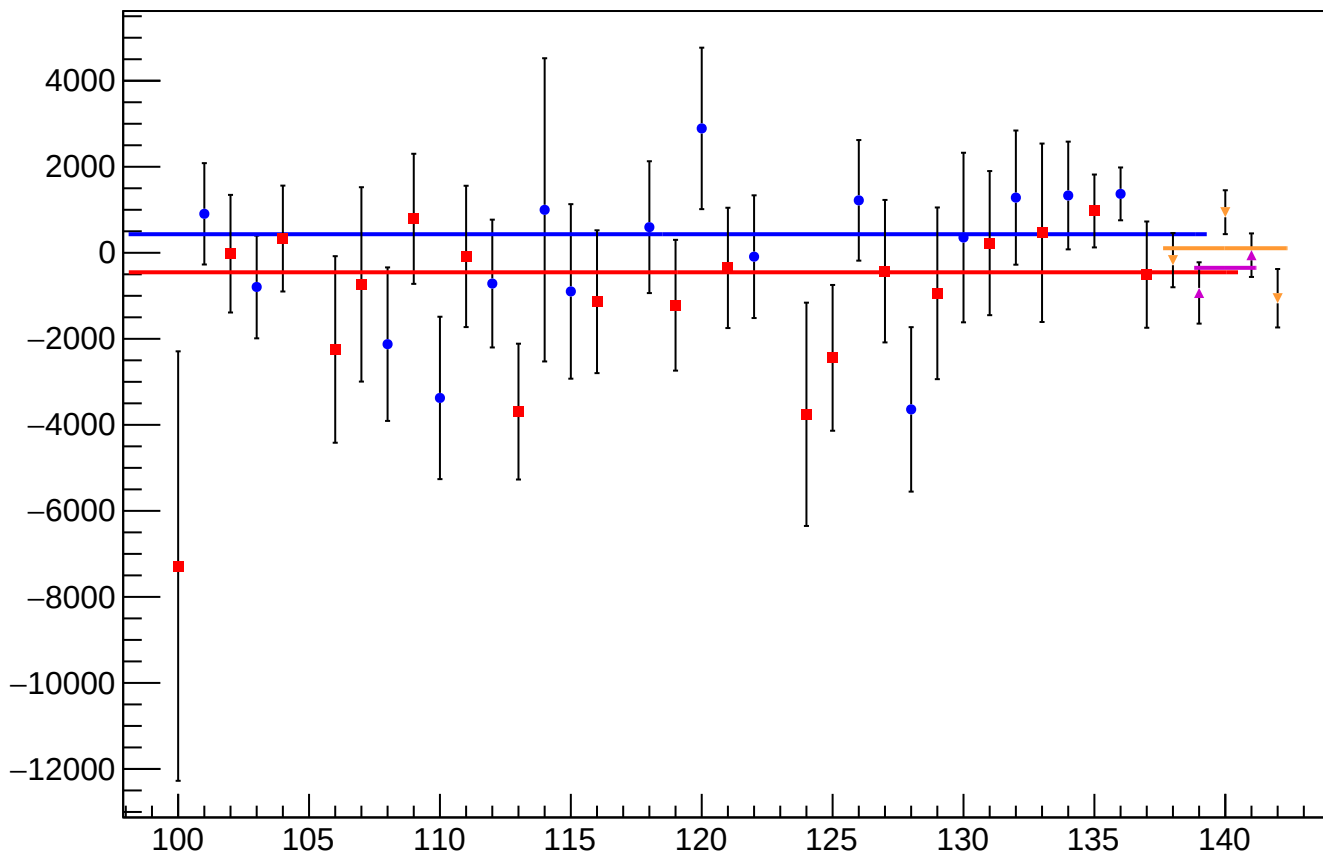
Right: 1354.176 $\pm$ 0.255 χ^2 /NDF: 907663.3/34

In: 1346.259 $\pm$ 0.325 χ^2 /NDF:763871.1/17

Out: 1342.328 $\pm$ 0.311 χ^2 /NDF:150575.9/21

All: 1344.210 $\pm$ 0.225 χ^2 /NDF: 914523.4/39

asym_usr_atr1_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 432.135 $\pm$ 338.403 χ^2 /NDF: 18.2/15

Left Out: 106.275 $\pm$ 342.385 χ^2 /NDF:5.8/2

Right Out: -453.039 $\pm$ 355.599 χ^2 /NDF: 14.7/18

Left In: -349.563 $\pm$ 412.752 χ^2 /NDF:1.0/1

Left: -79.533 $\pm$ 263.521 χ^2 /NDF: 7.5/4

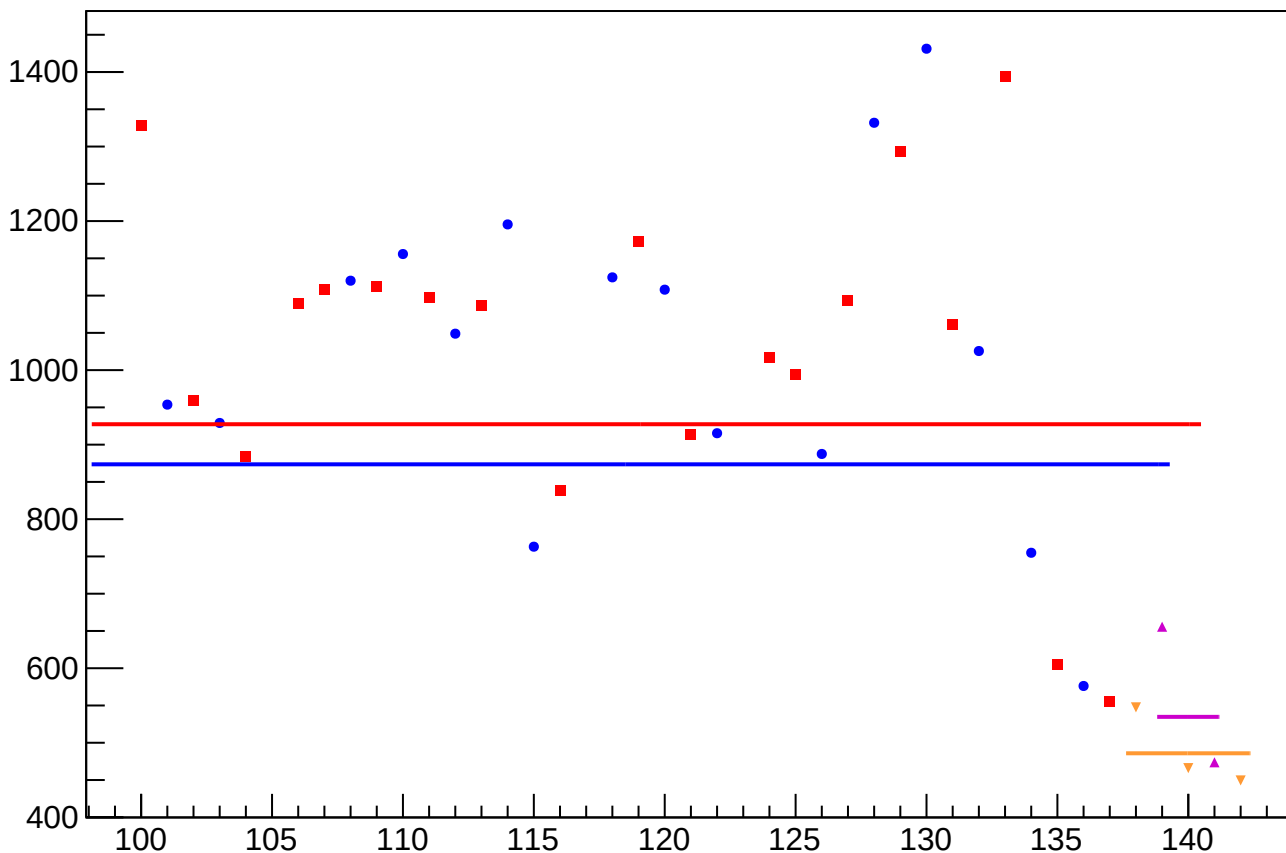
Right: 11.468 $\pm$ 245.141 χ^2 /NDF: 36.2/34

In: 117.908 $\pm$ 261.693 χ^2 /NDF:21.4/17

Out: -162.797 $\pm$ 246.642 χ^2 /NDF:21.8/21

All: -30.748 $\pm$ 179.487 χ^2 /NDF: 43.8/39

asym_usr_atr1_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 873.606 $\pm$ 0.239 χ^2 /NDF: 1014405.7/15

Left Out: 485.863 $\pm$ 0.242 χ^2 /NDF: 27948.8/2

Right Out: 927.407 $\pm$ 0.251 χ^2 /NDF: 847382.0/18

Left In: 534.750 $\pm$ 0.292 χ^2 /NDF: 86573.2/1

Left: 505.790 $\pm$ 0.186 χ^2 /NDF: 131141.9/4

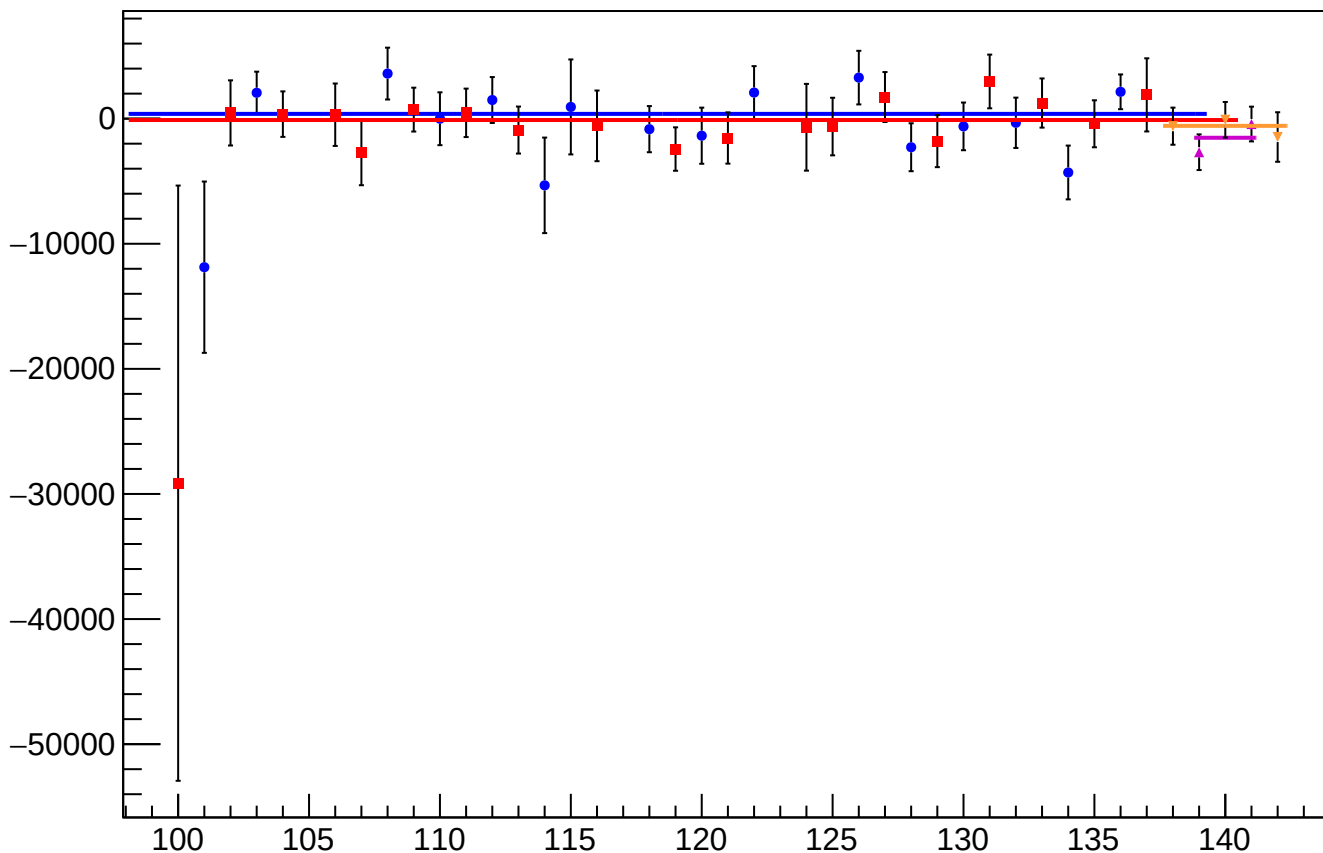
Right: 899.174 $\pm$ 0.173 χ^2 /NDF: 1885812.2/34

In: 737.393 $\pm$ 0.185 χ^2 /NDF: 1907096.6/17

Out: 698.279 $\pm$ 0.174 χ^2 /NDF: 2475480.3/21

All: 716.679 $\pm$ 0.127 χ^2 /NDF: 4406238.1/39

eigen_cor_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 381.712 ± 517.789 χ^2/NDF : 21.5/15

Left Out: -576.063 ± 911.785 χ^2/NDF : 0.3/2

Right Out: -110.280 ± 502.698 χ^2/NDF : 10.0/18

Left In: -1527.157 ± 994.584 χ^2/NDF : 1.3/1

Left: -1010.379 ± 672.098 χ^2/NDF : 2.1/4

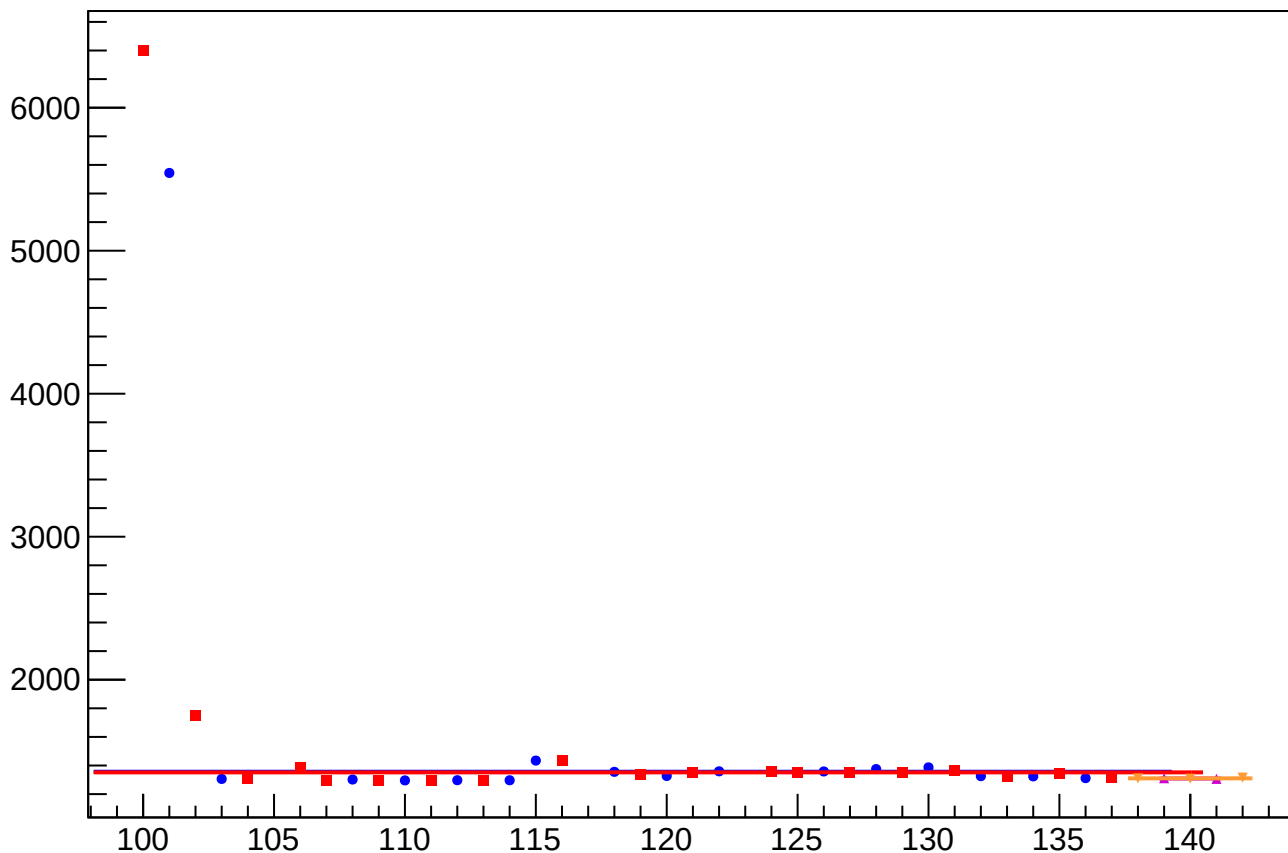
Right: 128.442 ± 360.678 χ^2/NDF : 32.0/34

In: -25.333 ± 459.277 χ^2/NDF : 25.7/17

Out: -218.859 ± 440.224 χ^2/NDF : 10.5/21

All: -126.193 ± 317.808 χ^2/NDF : 36.3/39

eigen_cor_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1356.397+/-0.366 χ^2/NDF : 760265.4/15

Left Out: 1310.233+/-0.645 χ^2/NDF : 18.0/2

Right Out: 1352.083+/-0.355 χ^2/NDF : 147326.5/18

Left In: 1308.853+/-0.703 χ^2/NDF : 10.0/1

Left: 1309.603+/-0.475 χ^2/NDF : 30.1/4

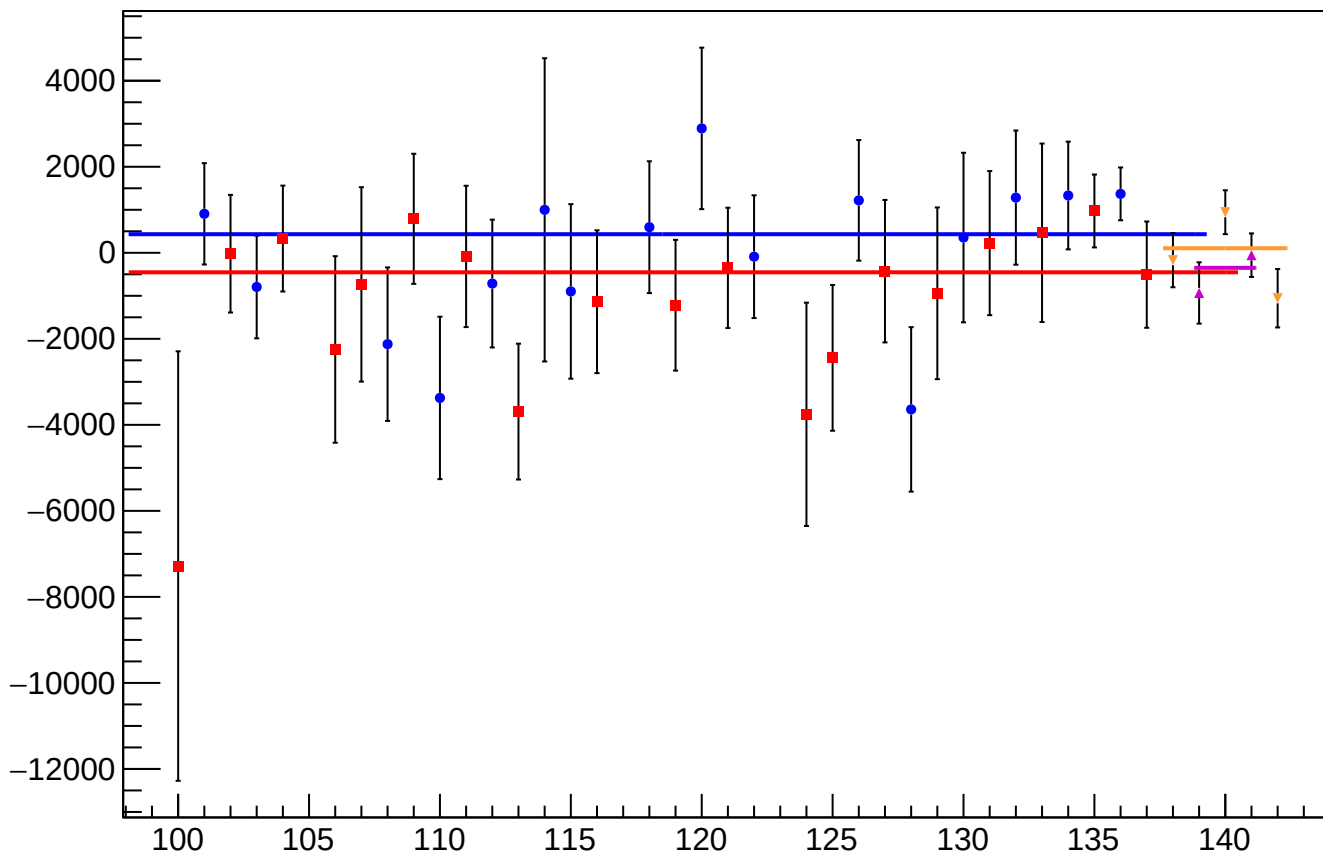
Right: 1354.176+/-0.255 χ^2/NDF : 907663.3/34

In: 1346.259+/-0.325 χ^2/NDF : 763871.1/17

Out: 1342.328+/-0.311 χ^2/NDF : 150575.9/21

All: 1344.210+/-0.225 χ^2/NDF : 914523.4/39

asym_usr_atr1_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 432.135+/-338.403 χ^2/NDF : 18.2/15

Left Out: 106.275+/-342.385 χ^2/NDF : 5.8/2

Right Out: -453.039+/-355.599 χ^2/NDF : 14.7/18

Left In: -349.563+/-412.752 χ^2/NDF : 1.0/1

Left: -79.533+/-263.521 χ^2/NDF : 7.5/4

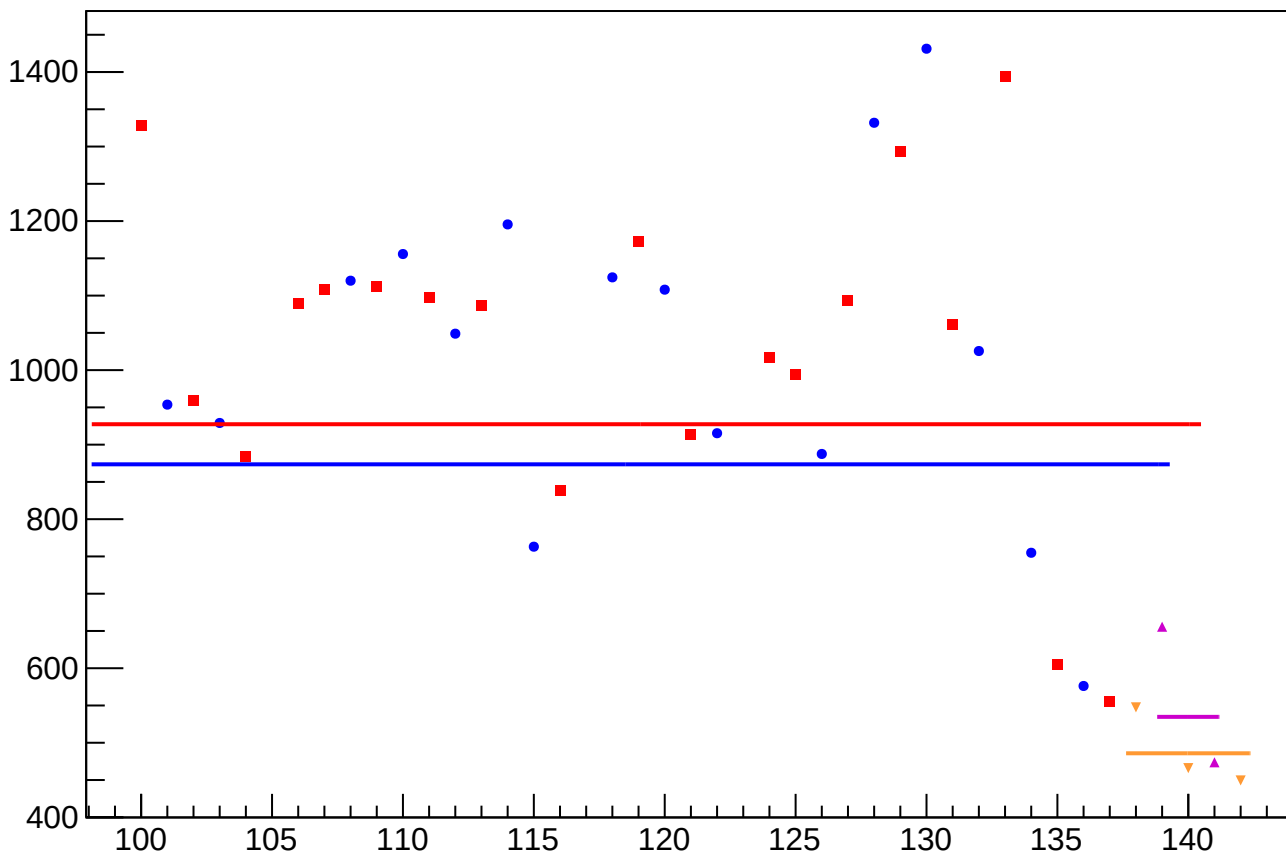
Right: 11.468+/-245.141 χ^2/NDF : 36.2/34

In: 117.908+/-261.693 χ^2/NDF : 21.4/17

Out: -162.797+/-246.642 χ^2/NDF : 21.8/21

All: -30.748+/-179.487 χ^2/NDF : 43.8/39

asym_usr_atr1_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 873.606 $\pm$ 0.239 χ^2 /NDF: 1014405.7/15

Left Out: 485.863 $\pm$ 0.242 χ^2 /NDF:27948.8/2

Right Out: 927.407 $\pm$ 0.251 χ^2 /NDF: 847382.0/18

Left In: 534.750 $\pm$ 0.292 χ^2 /NDF:86573.2/1

Left: 505.790 $\pm$ 0.186 χ^2 /NDF: 131141.9/4

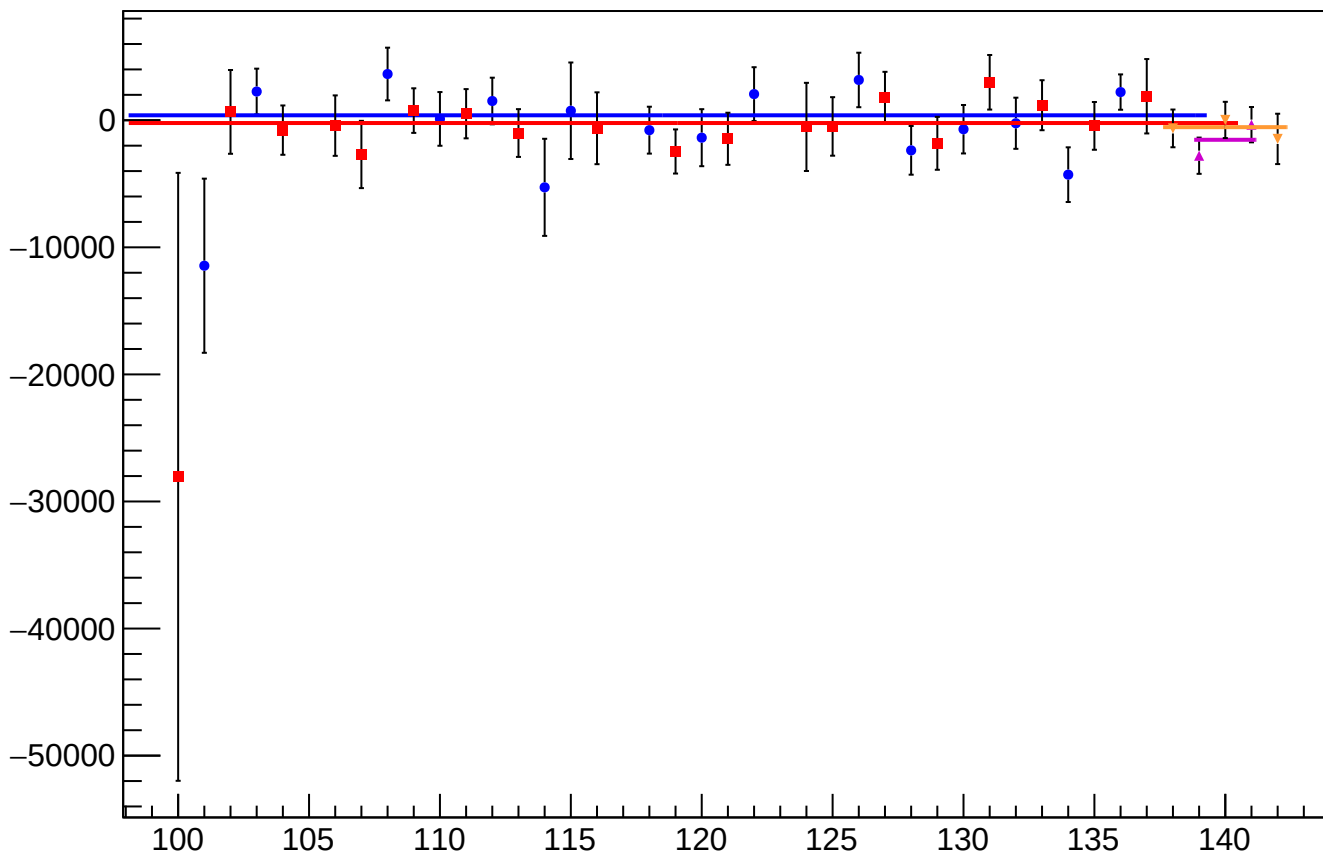
Right: 899.174 $\pm$ 0.173 χ^2 /NDF: 1885812.2/34

In: 737.393 $\pm$ 0.185 χ^2 /NDF:1907096.6/17

Out: 698.279 $\pm$ 0.174 χ^2 /NDF:2475480.3/21

All: 716.679 $\pm$ 0.127 χ^2 /NDF: 4406238.1/39

dit_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 389.949 ± 521.159 χ^2/NDF : 21.4/15

Left Out: -543.427 ± 912.534 χ^2/NDF : 0.4/2

Right Out: -218.184 ± 507.927 χ^2/NDF : 10.0/18

Left In: -1537.640 ± 995.287 χ^2/NDF : 1.5/1

Left: -997.490 ± 672.615 χ^2/NDF : 2.4/4

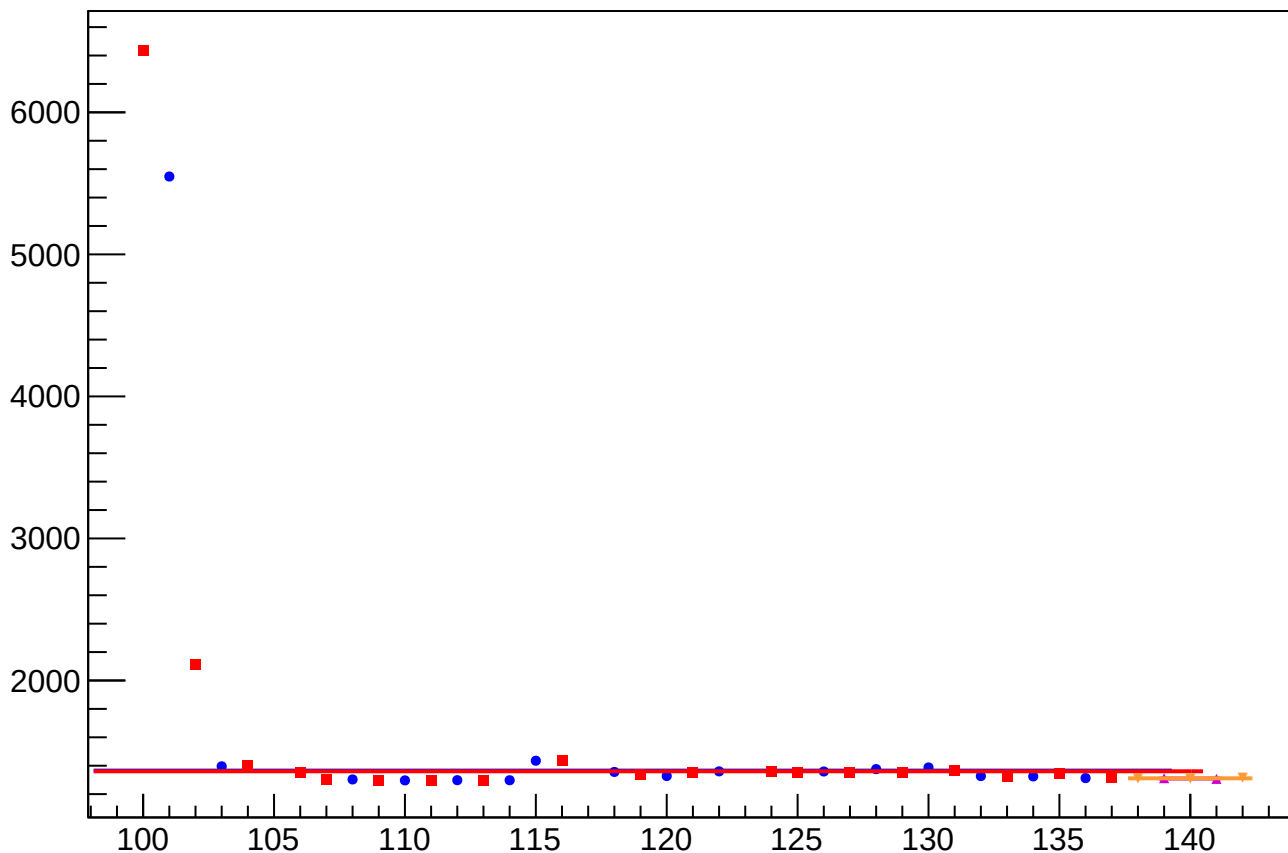
Right: 78.065 ± 363.747 χ^2/NDF : 32.1/34

In: -24.838 ± 461.694 χ^2/NDF : 25.8/17

Out: -295.115 ± 443.809 χ^2/NDF : 10.5/21

All: -165.313 ± 319.956 χ^2/NDF : 36.5/39

dit_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1365.302 $\pm$ 0.369 χ^2 /NDF: 758944.7/15

Left Out: 1311.308 $\pm$ 0.645 χ^2 /NDF:16.0/2

Right Out: 1360.771 $\pm$ 0.359 χ^2 /NDF: 205315.3/18

Left In: 1309.775 $\pm$ 0.704 χ^2 /NDF:11.7/1

Left: 1310.608 $\pm$ 0.476 χ^2 /NDF: 30.2/4

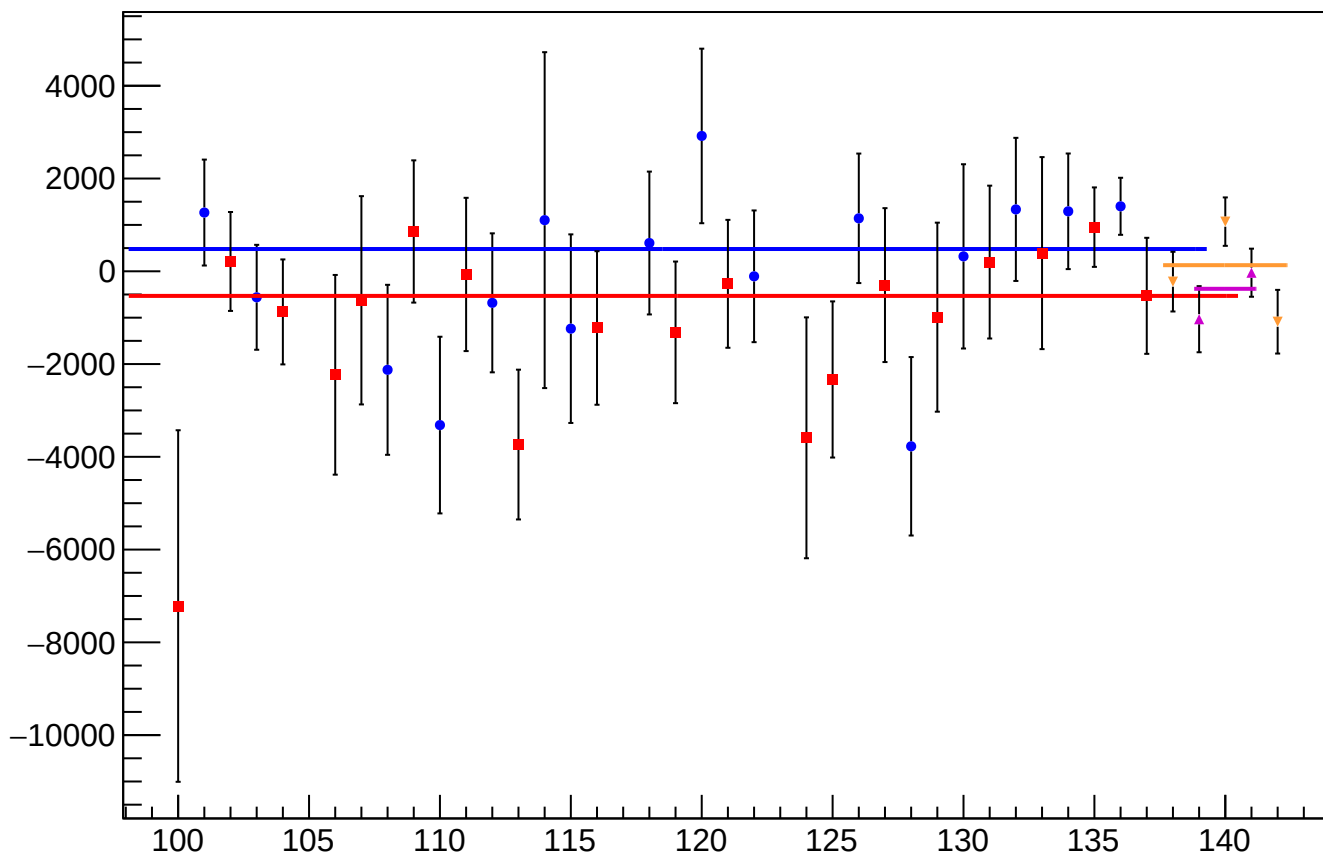
Right: 1362.978 $\pm$ 0.257 χ^2 /NDF: 964337.6/34

In: 1353.353 $\pm$ 0.326 χ^2 /NDF:763841.9/17

Out: 1349.071 $\pm$ 0.314 χ^2 /NDF:209817.3/21

All: 1351.128 $\pm$ 0.226 χ^2 /NDF: 973748.6/39

asym_usr_atr1_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 480.403 $\pm$ 336.520 χ^2 /NDF: 18.6/15

Left Out: 131.843 $\pm$ 349.003 χ^2 /NDF:6.7/2

Right Out: -530.532 $\pm$ 346.105 χ^2 /NDF: 15.6/18

Left In: -377.590 $\pm$ 419.248 χ^2 /NDF:1.3/1

Left: -76.680 $\pm$ 268.228 χ^2 /NDF: 8.9/4

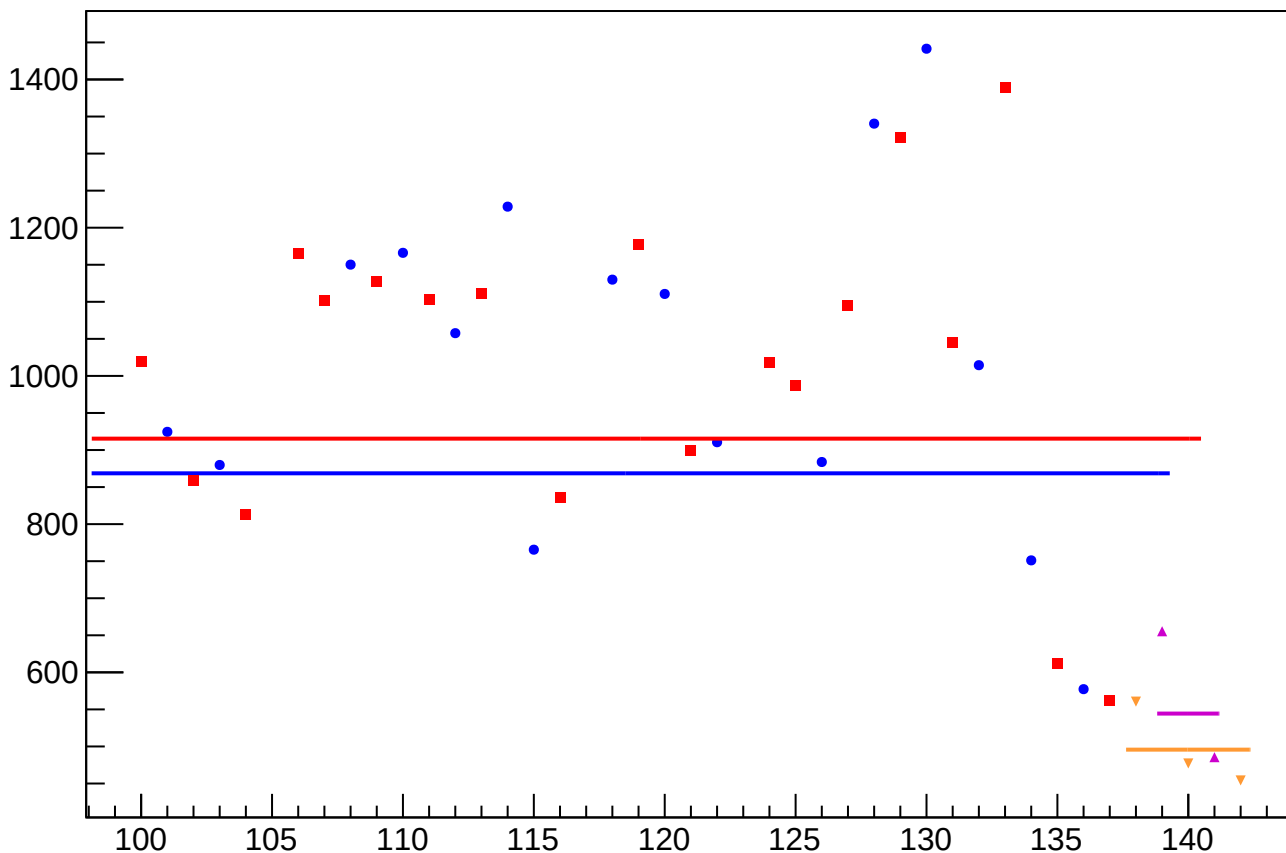
Right: -10.874 $\pm$ 241.273 χ^2 /NDF: 38.6/34

In: 144.212 $\pm$ 262.435 χ^2 /NDF:22.4/17

Out: -202.107 $\pm$ 245.751 χ^2 /NDF:24.1/21

All: -40.305 $\pm$ 179.381 χ^2 /NDF: 47.5/39

asym_usr_atr1_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 868.572 $\pm$ 0.238 χ^2 /NDF: 1021338.5/15

Left Out: 495.705 $\pm$ 0.247 χ^2 /NDF:30162.7/2

Right Out: 915.360 $\pm$ 0.245 χ^2 /NDF: 858906.6/18

Left In: 544.371 $\pm$ 0.296 χ^2 /NDF:74347.5/1

Left: 515.625 $\pm$ 0.190 χ^2 /NDF: 120428.5/4

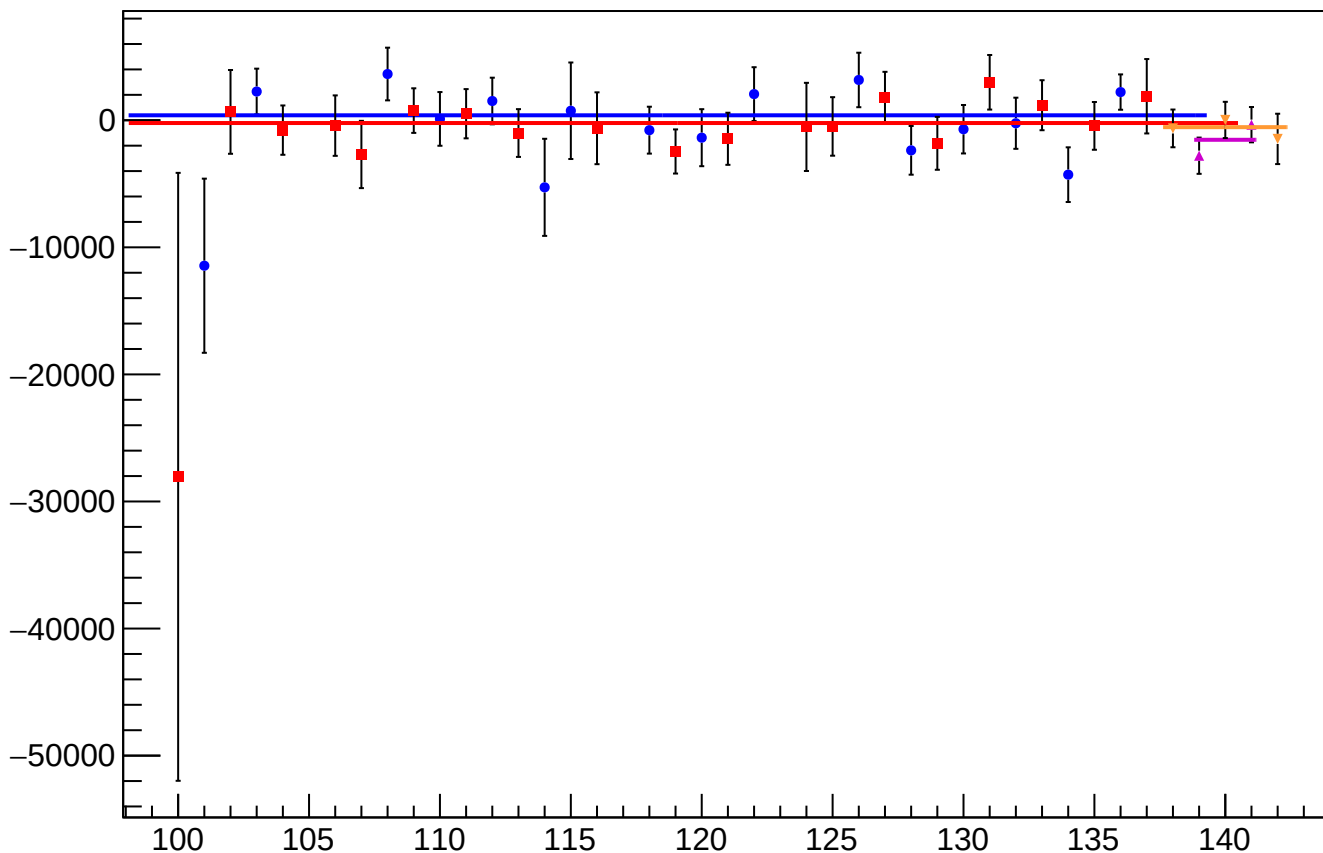
Right: 891.309 $\pm$ 0.171 χ^2 /NDF: 1899033.0/34

In: 741.539 $\pm$ 0.186 χ^2 /NDF:1823027.4/17

Out: 707.282 $\pm$ 0.174 χ^2 /NDF:2346986.9/21

All: 723.287 $\pm$ 0.127 χ^2 /NDF: 4188170.8/39

eigen_dit_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 389.949 ± 521.159 $\chi^2/\text{NDF}: 21.4/15$

Left Out: -543.428 ± 912.534 $\chi^2/\text{NDF}: 0.4/2$

Right Out: -218.182 ± 507.927 $\chi^2/\text{NDF}: 10.0/18$

Left In: -1537.642 ± 995.287 $\chi^2/\text{NDF}: 1.5/1$

Left: -997.491 ± 672.615 $\chi^2/\text{NDF}: 2.4/4$

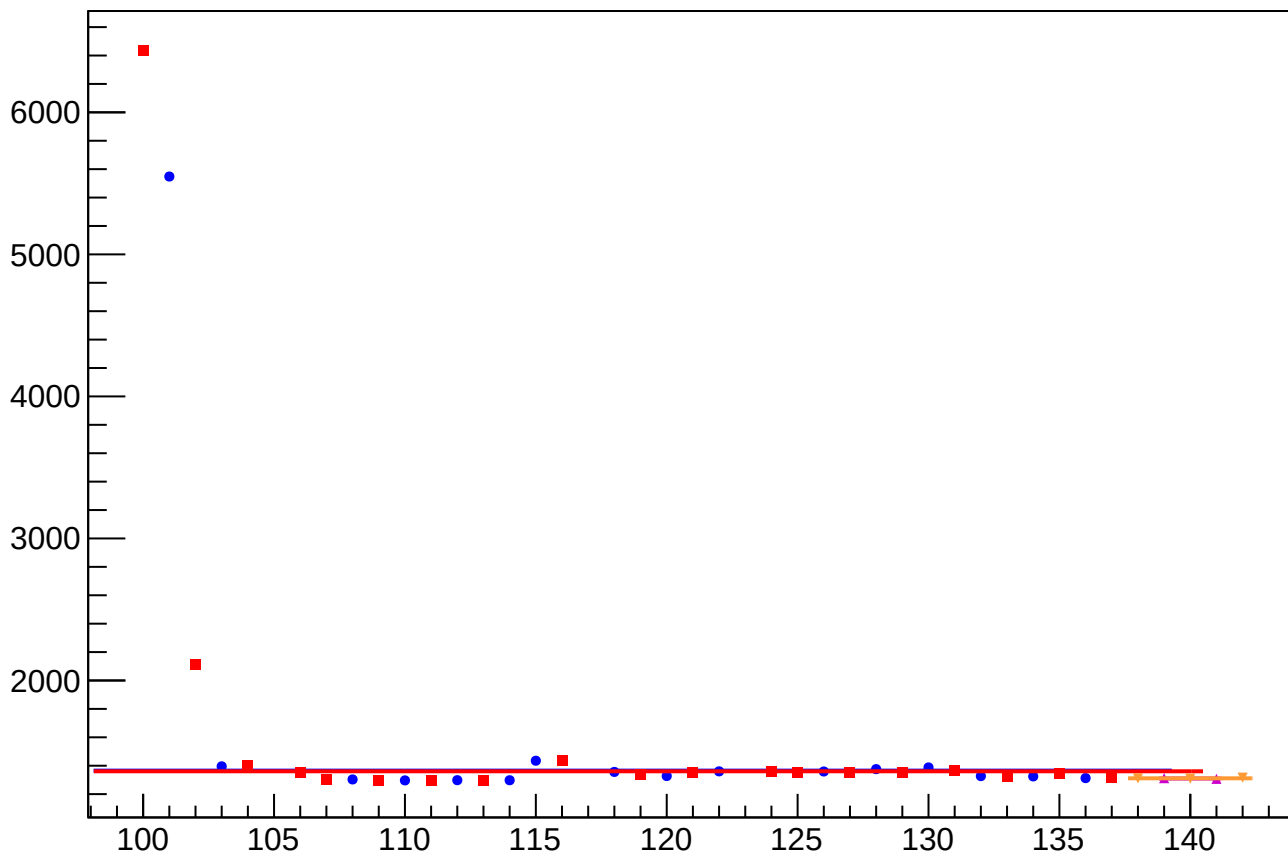
Right: 78.066 ± 363.747 $\chi^2/\text{NDF}: 32.1/34$

In: -24.839 ± 461.694 $\chi^2/\text{NDF}: 25.8/17$

Out: -295.114 ± 443.809 $\chi^2/\text{NDF}: 10.5/21$

All: -165.312 ± 319.956 $\chi^2/\text{NDF}: 36.5/39$

eigen_dit_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1365.302 $\pm$ 0.369 χ^2 /NDF: 758944.7/15

Left Out: 1311.308 $\pm$ 0.645 χ^2 /NDF:16.0/2

Right Out: 1360.770 $\pm$ 0.359 χ^2 /NDF: 205315.2/18

Left In: 1309.775 $\pm$ 0.704 χ^2 /NDF:11.7/1

Left: 1310.608 $\pm$ 0.476 χ^2 /NDF: 30.2/4

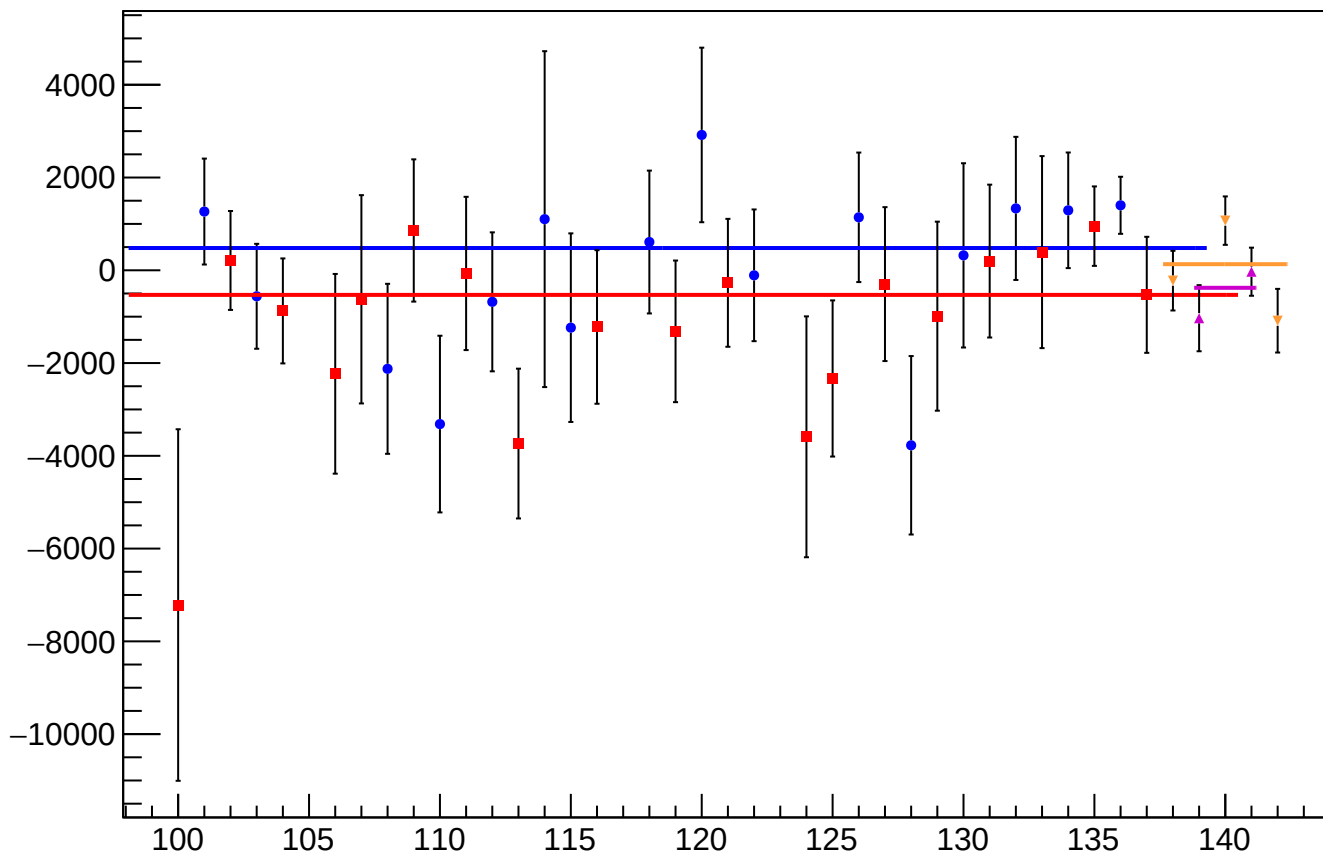
Right: 1362.978 $\pm$ 0.257 χ^2 /NDF: 964337.5/34

In: 1353.353 $\pm$ 0.326 χ^2 /NDF:763841.8/17

Out: 1349.071 $\pm$ 0.314 χ^2 /NDF:209817.3/21

All: 1351.128 $\pm$ 0.226 χ^2 /NDF: 973748.6/39

asym_usr_atr1_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 480.400+/-336.519 χ^2/NDF : 18.6/15

Left Out: 131.848+/-349.004 χ^2/NDF : 6.7/2

Right Out: -530.531+/-346.104 χ^2/NDF : 15.6/18

Left In: -377.589+/-419.248 χ^2/NDF : 1.3/1

Left: -76.677+/-268.229 χ^2/NDF : 8.9/4

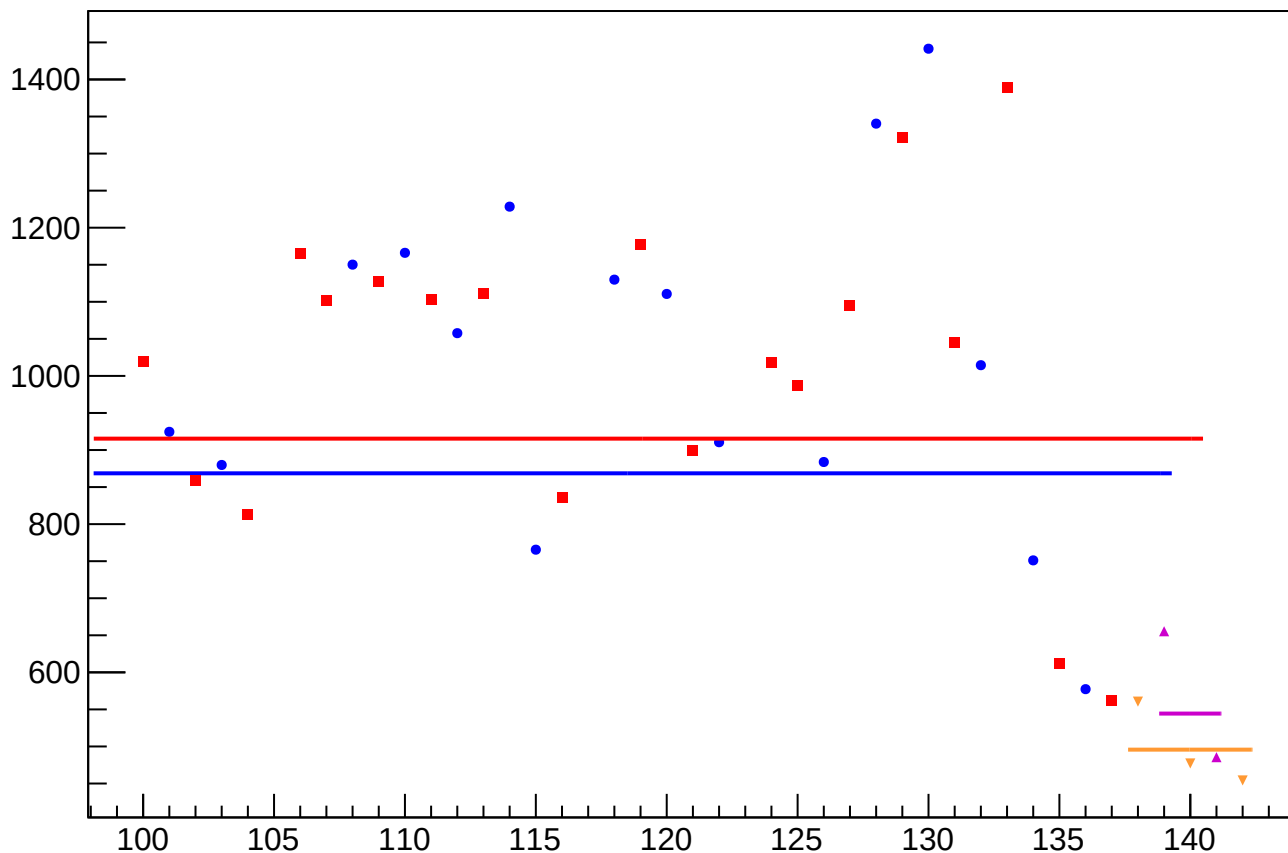
Right: -10.874+/-241.273 χ^2/NDF : 38.6/34

In: 144.212+/-262.435 χ^2/NDF : 22.4/17

Out: -202.105+/-245.751 χ^2/NDF : 24.1/21

All: -40.304+/-179.381 χ^2/NDF : 47.5/39

asym_usr_atr1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 868.570 $\pm$ 0.238 χ^2 /NDF: 1021337.1/15

Left Out: 495.706 $\pm$ 0.247 χ^2 /NDF:30163.0/2

Right Out: 915.358 $\pm$ 0.245 χ^2 /NDF: 858906.3/18

Left In: 544.371 $\pm$ 0.296 χ^2 /NDF:74350.5/1

Left: 515.626 $\pm$ 0.190 χ^2 /NDF: 120430.9/4

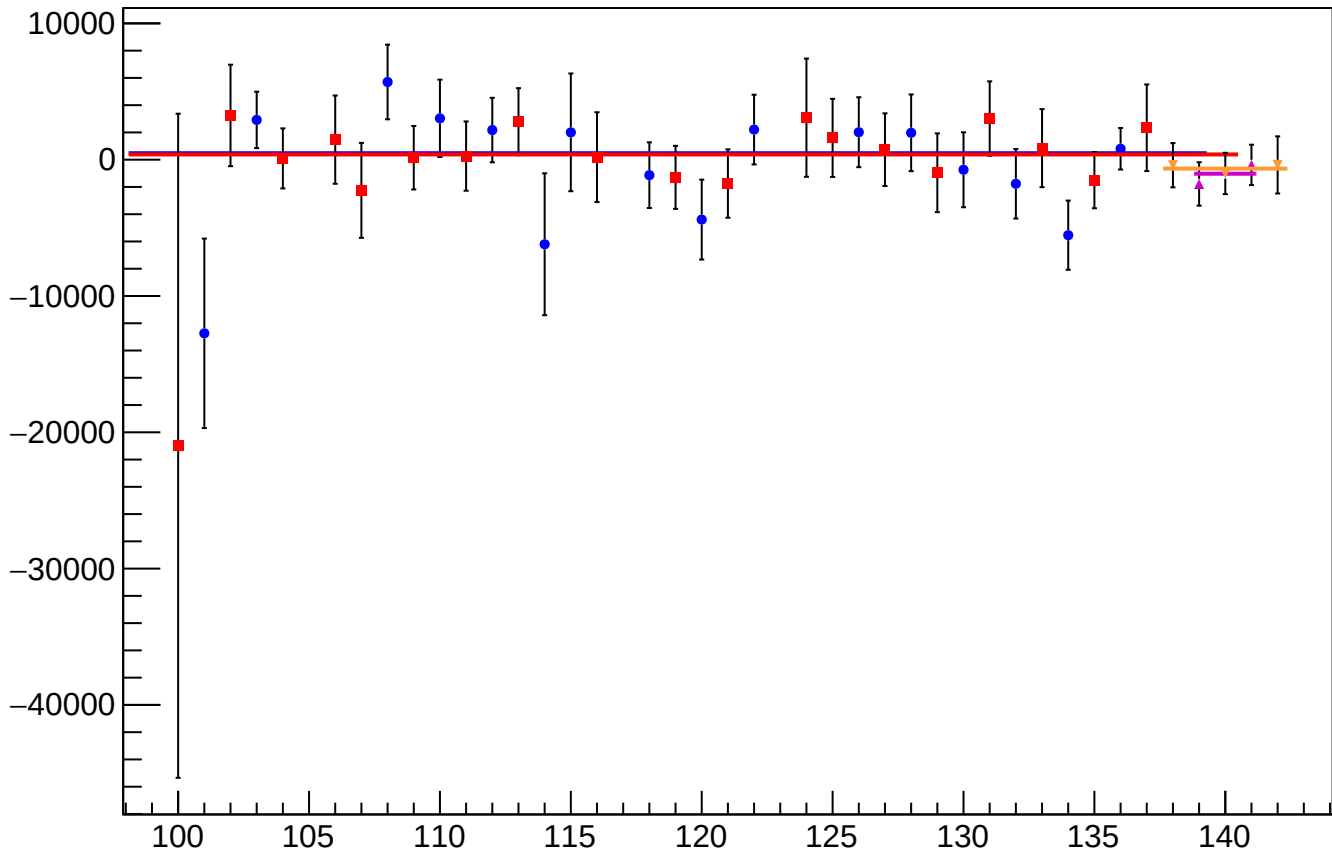
Right: 891.307 $\pm$ 0.171 χ^2 /NDF: 1899032.0/34

In: 741.538 $\pm$ 0.186 χ^2 /NDF:1823020.6/17

Out: 707.283 $\pm$ 0.174 χ^2 /NDF:2346967.4/21

All: 723.287 $\pm$ 0.127 χ^2 /NDF: 4188142.9/39

asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 473.494+/-649.243 χ^2/NDF : 22.7/15

Left Out: -653.014+/-979.799 χ^2/NDF : 0.1/2

Right Out: 384.785+/-641.994 χ^2/NDF : 7.3/18

Left In: -1029.582+/-1085.155 χ^2/NDF : 0.4/1

Left: -822.135+/-727.225 χ^2/NDF : 0.6/4

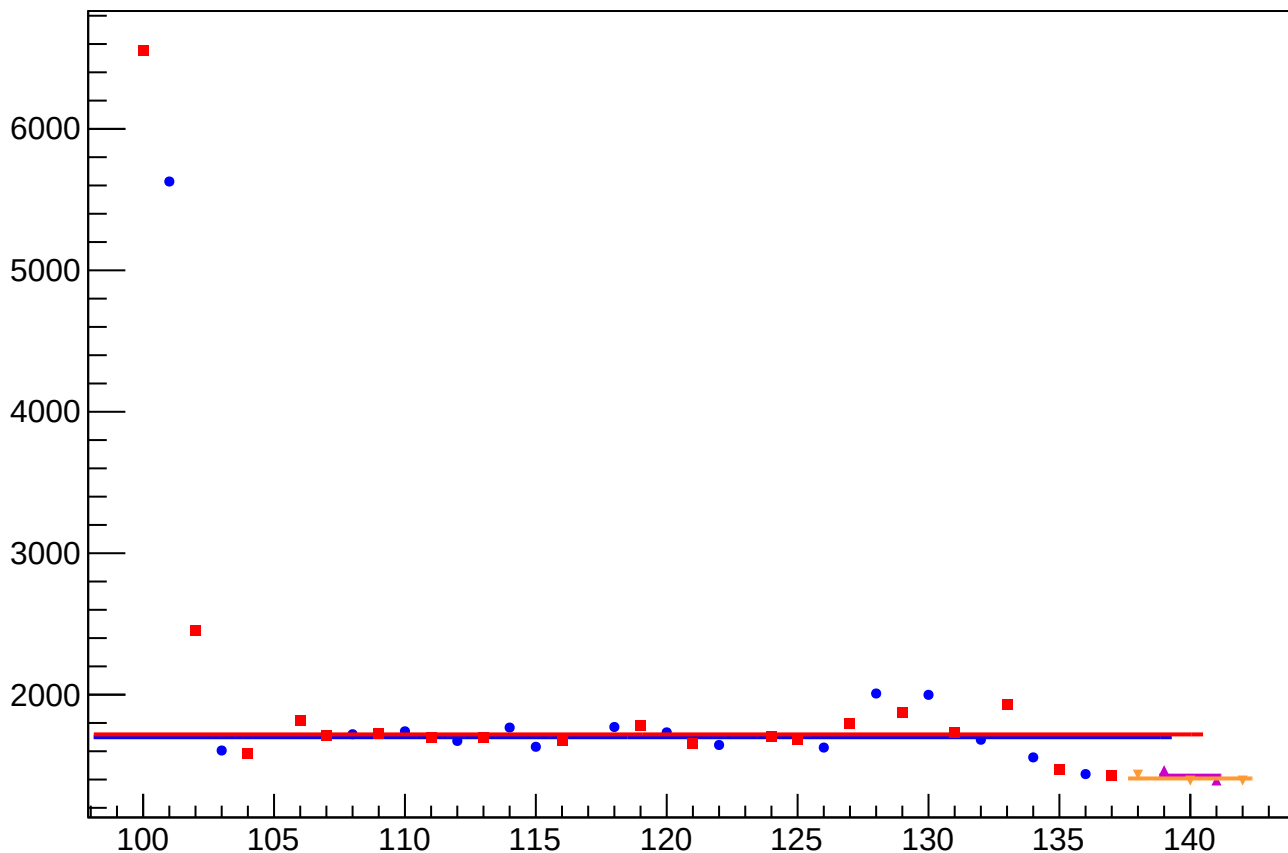
Right: 428.642+/-456.500 χ^2/NDF : 30.0/34

In: 77.284+/-557.140 χ^2/NDF : 24.5/17

Out: 73.061+/-536.989 χ^2/NDF : 8.1/21

All: 75.095+/-386.636 χ^2/NDF : 32.7/39

asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1699.330+/-0.459 χ^2/NDF : 762097.7/15

Left Out: 1407.612+/-0.693 χ^2/NDF : 848.1/2

Right Out: 1719.103+/-0.454 χ^2/NDF : 233751.6/18

Left In: 1427.513+/-0.767 χ^2/NDF : 2249.5/1

Left: 1416.550+/-0.514 χ^2/NDF : 3468.1/4

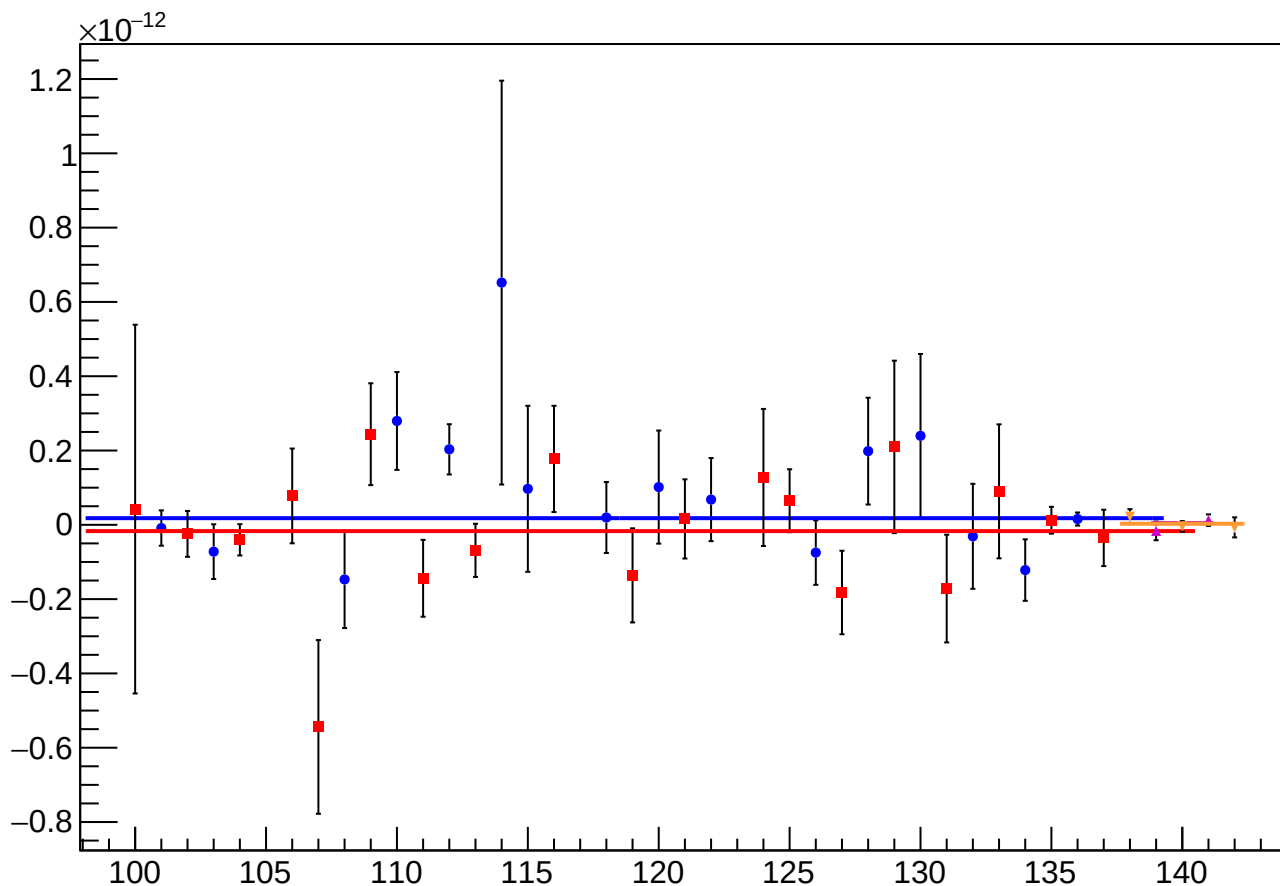
Right: 1709.327+/-0.323 χ^2/NDF : 996787.3/34

In: 1627.679+/-0.394 χ^2/NDF : 856755.9/17

Out: 1625.541+/-0.380 χ^2/NDF : 376021.1/21

All: 1626.570+/-0.273 χ^2/NDF : 1232792.3/39

asym_usr_atr1_dd_reg_vs_slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 23.6/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:1.3/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 21.3/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:1.0/1

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 2.3/4

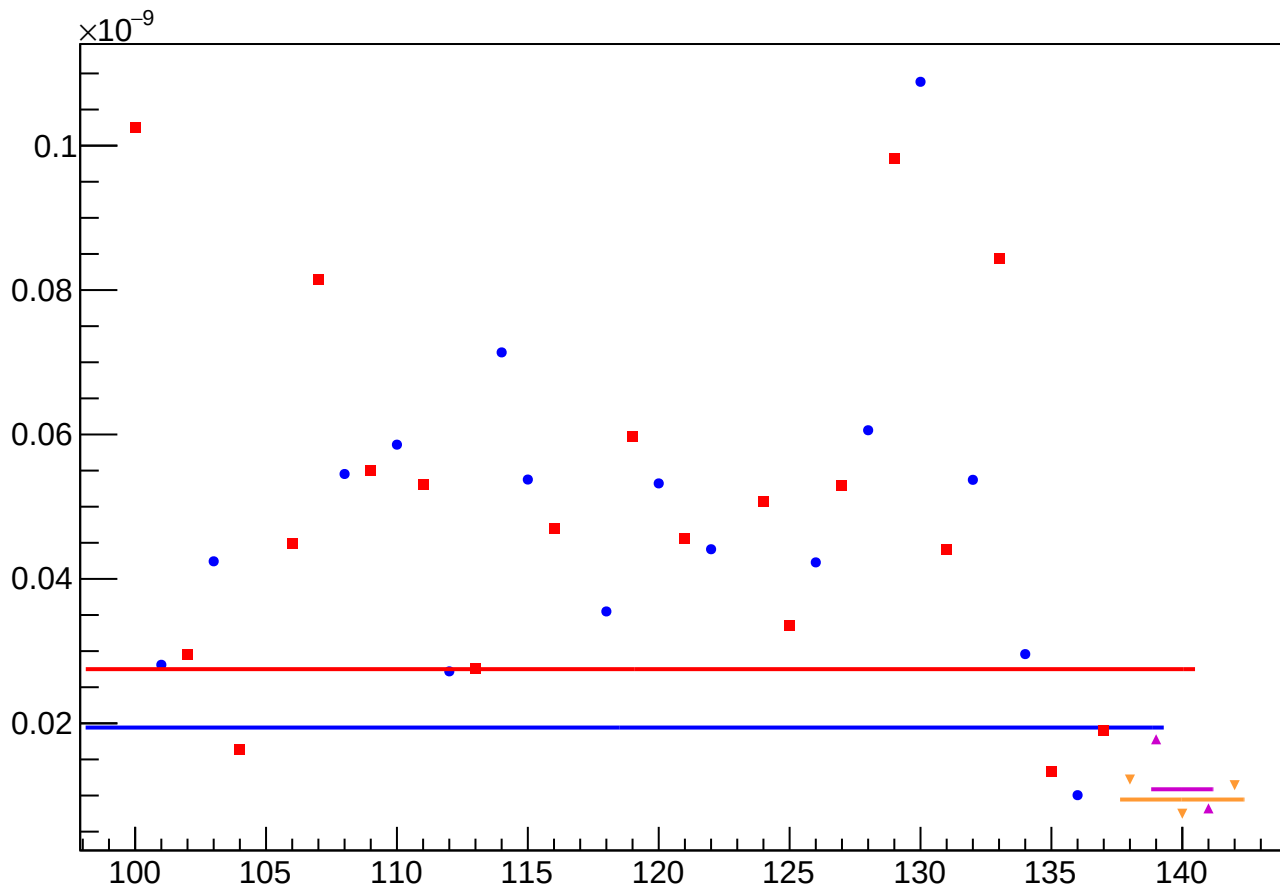
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 47.0/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:25.0/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:23.4/21

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 49.3/39

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 2274412.4/15

Left Out: 0.000+/-0.000

χ^2/NDF : 86151.7/2

Right Out: 0.000+/-0.000

χ^2/NDF : 1650144.8/18

Left In: 0.000+/-0.000

χ^2/NDF : 210084.4/1

Left: 0.000+/-0.000

χ^2/NDF : 310182.9/4

Right: 0.000+/-0.000

χ^2/NDF : 4153449.9/34

In: 0.000+/-0.000

χ^2/NDF : 2868146.9/17

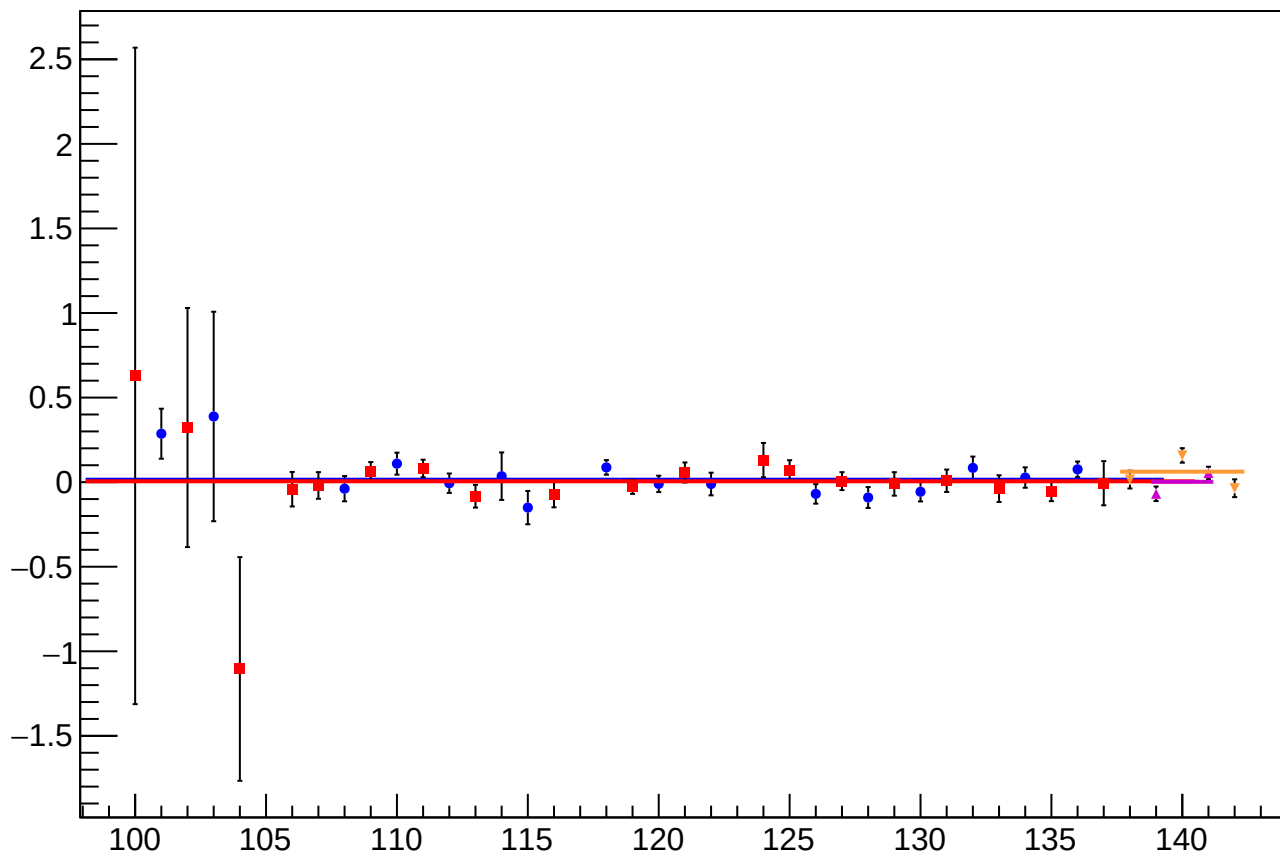
Out: 0.000+/-0.000

χ^2/NDF : 3094792.8/21

All: 0.000+/-0.000

χ^2/NDF : 5974177.7/39

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.016 χ^2 /NDF: 22.0/15

Left Out: 0.062 $\pm$ 0.028 χ^2 /NDF:9.2/2

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: 0.002 $\pm$ 0.028 χ^2 /NDF:4.7/1

Left: 0.032 $\pm$ 0.020 χ^2 /NDF: 16.2/4

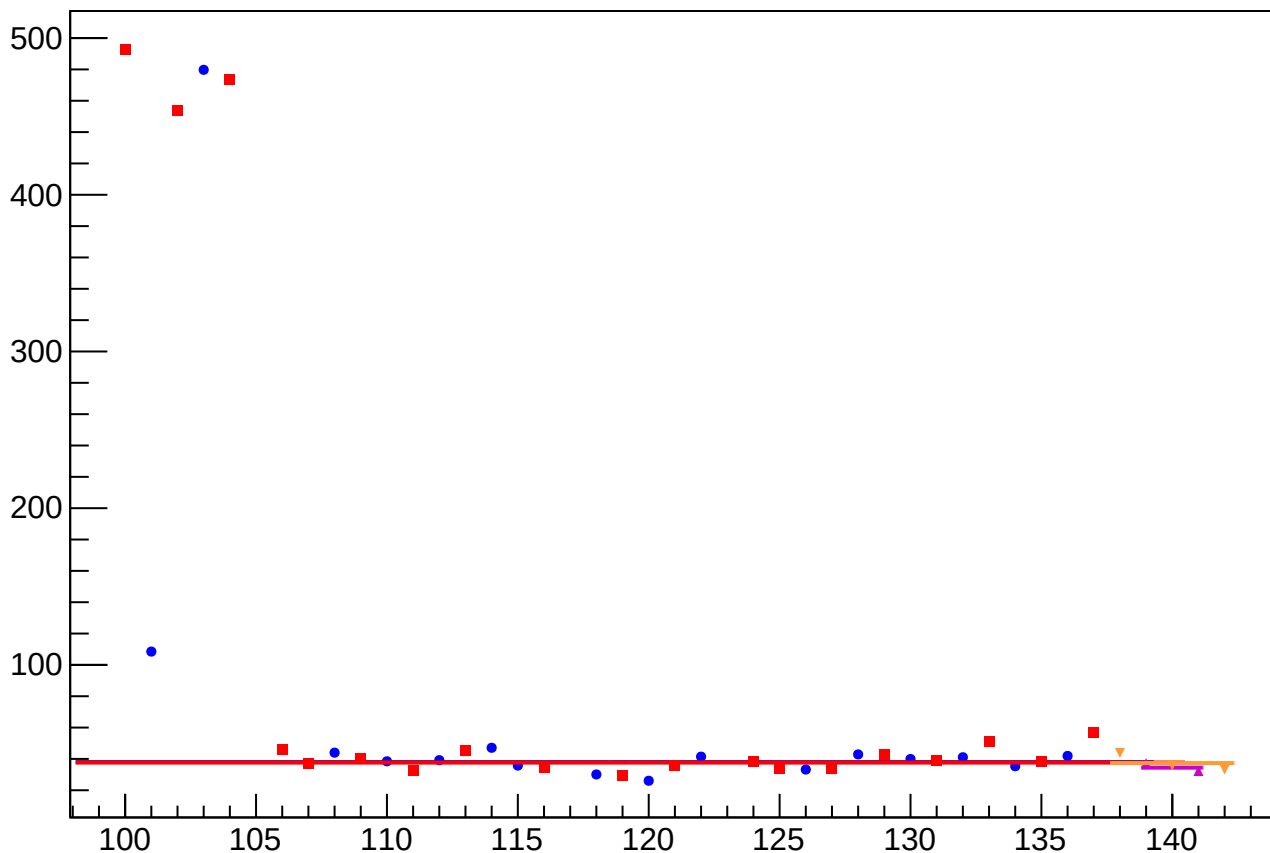
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.011 $\pm$ 0.014 χ^2 /NDF:26.9/17

Out: 0.019 $\pm$ 0.014 χ^2 /NDF:27.2/21

All: 0.015 $\pm$ 0.010 χ^2 /NDF: 54.2/39

asym_usr_atr1_dd_dit_vs_Slug, Sign Corrected



Right In: 37.942 $\pm$ 0.011 χ^2 /NDF: 1739669.4/15

Left Out: 37.338 $\pm$ 0.020 χ^2 /NDF:44526.5/2

Right Out: 37.696 $\pm$ 0.011 χ^2 /NDF: 1944881.8/18

Left In: 34.414 $\pm$ 0.020 χ^2 /NDF:15191.9/1

Left: 35.870 $\pm$ 0.014 χ^2 /NDF: 70539.3/4

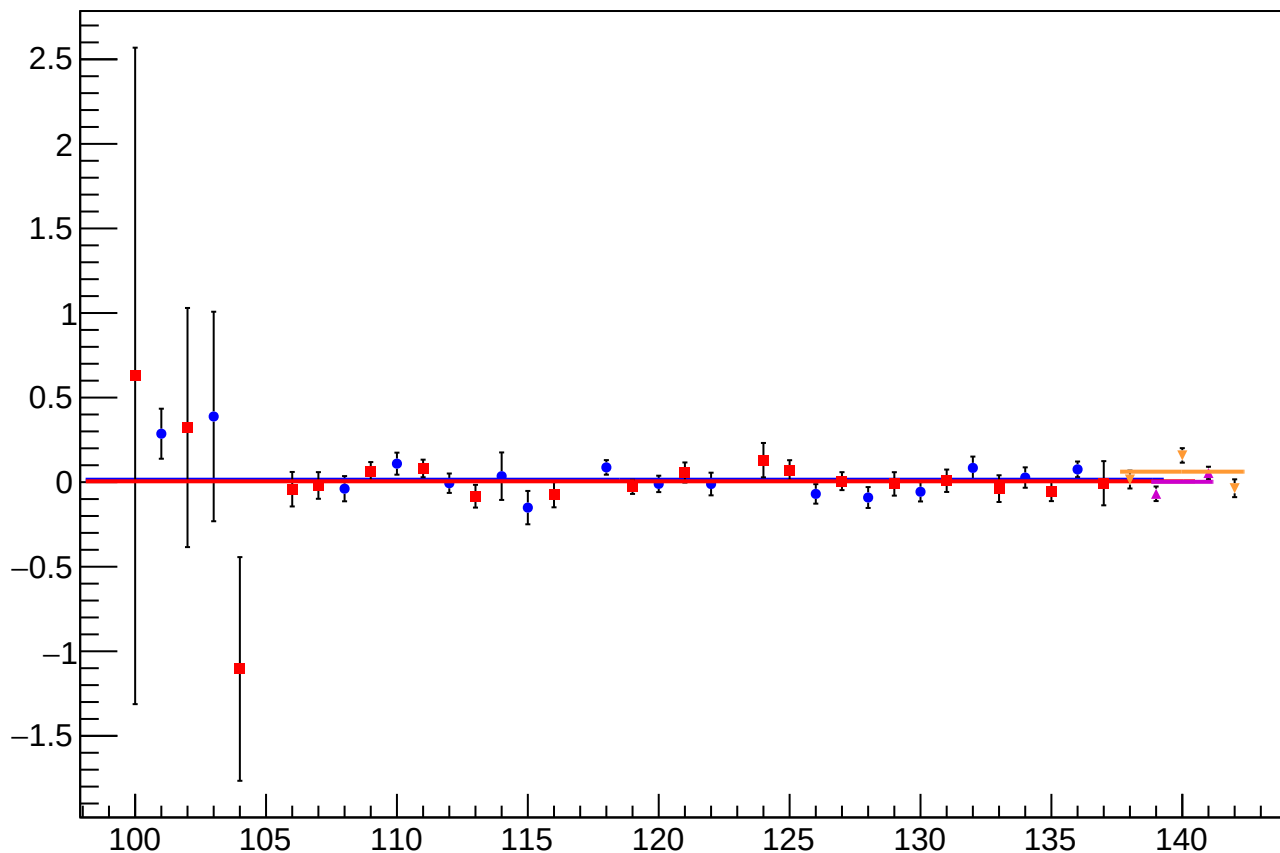
Right: 37.820 $\pm$ 0.008 χ^2 /NDF: 3684788.8/34

In: 37.082 $\pm$ 0.010 χ^2 /NDF:1778778.5/17

Out: 37.608 $\pm$ 0.010 χ^2 /NDF:1989651.6/21

All: 37.343 $\pm$ 0.007 χ^2 /NDF: 3769862.4/39

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.016 χ^2 /NDF: 22.0/15

Left Out: 0.062 $\pm$ 0.028 χ^2 /NDF:9.2/2

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: 0.002 $\pm$ 0.028 χ^2 /NDF:4.7/1

Left: 0.032 $\pm$ 0.020 χ^2 /NDF: 16.2/4

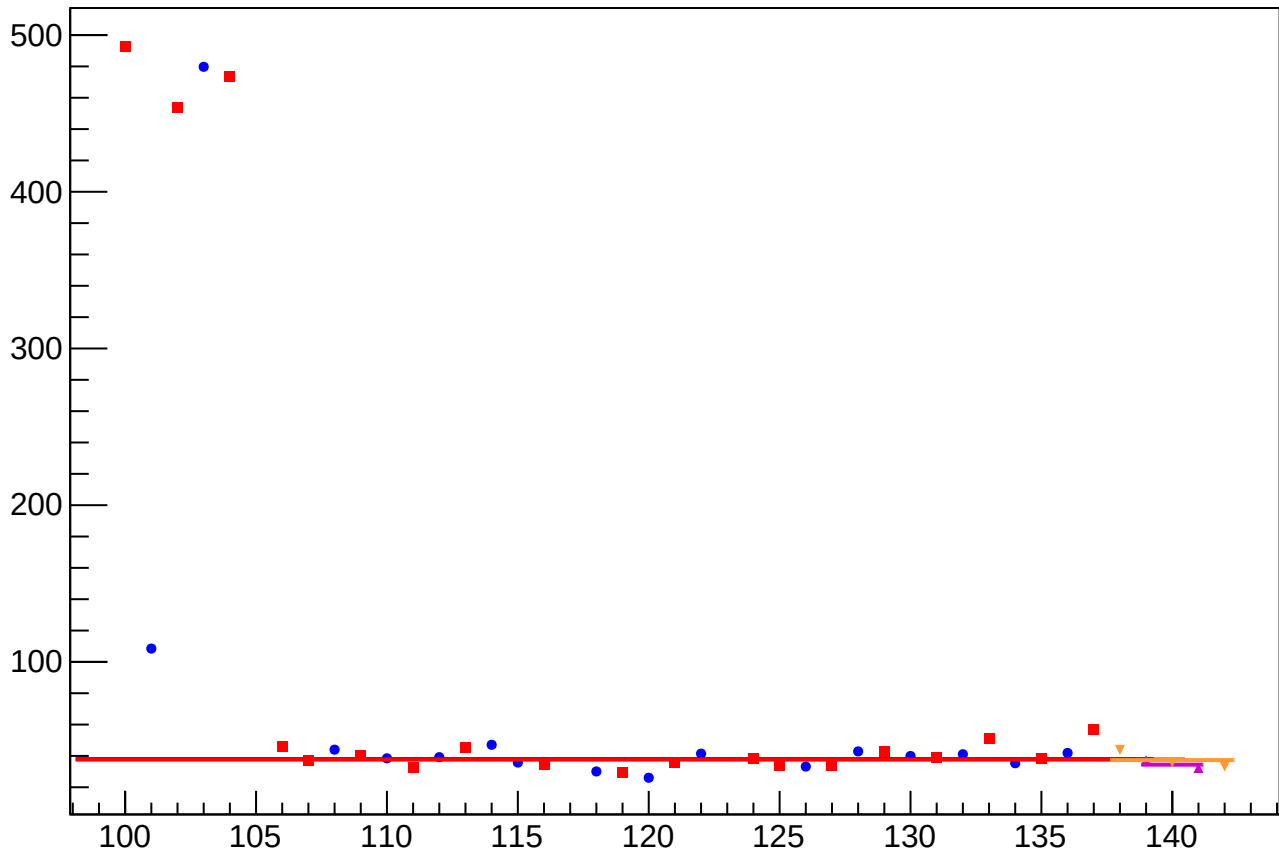
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.011 $\pm$ 0.014 χ^2 /NDF:26.9/17

Out: 0.019 $\pm$ 0.014 χ^2 /NDF:27.2/21

All: 0.015 $\pm$ 0.010 χ^2 /NDF: 54.2/39

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.942 $\pm$ 0.011 χ^2 /NDF: 1739669.4/15

Left Out: 37.338 $\pm$ 0.020 χ^2 /NDF: 44526.5/2

Right Out: 37.696 $\pm$ 0.011 χ^2 /NDF: 1944881.8/18

Left In: 34.414 $\pm$ 0.020 χ^2 /NDF: 15191.9/1

Left: 35.870 $\pm$ 0.014 χ^2 /NDF: 70539.3/4

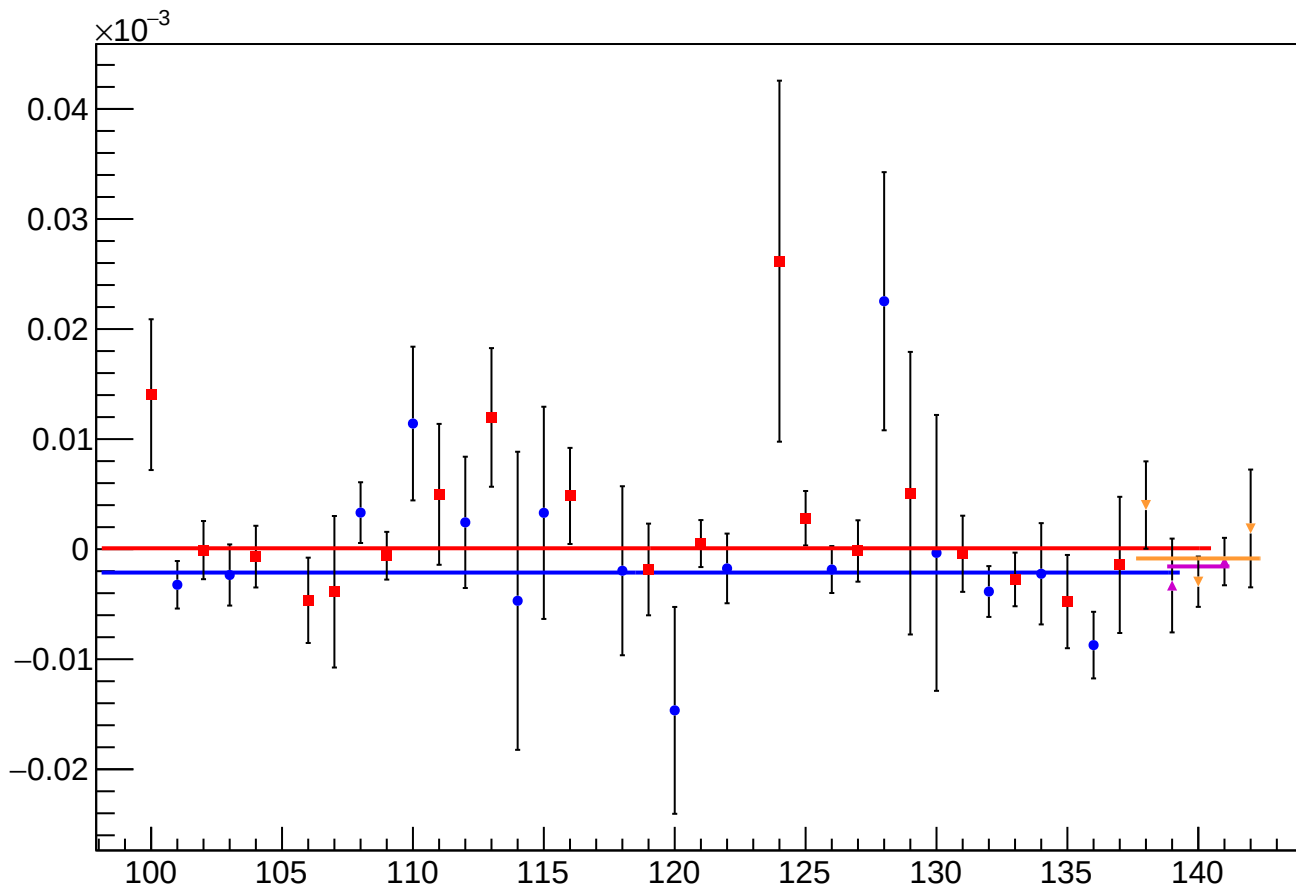
Right: 37.820 $\pm$ 0.008 χ^2 /NDF: 3684788.8/34

In: 37.082 $\pm$ 0.010 χ^2 /NDF: 1778778.5/17

Out: 37.608 $\pm$ 0.010 χ^2 /NDF: 1989651.6/21

All: 37.343 $\pm$ 0.007 χ^2 /NDF: 3769862.4/39

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 20.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 2.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.2/1

Left: -0.000+/-0.000 χ^2/NDF : 2.9/4

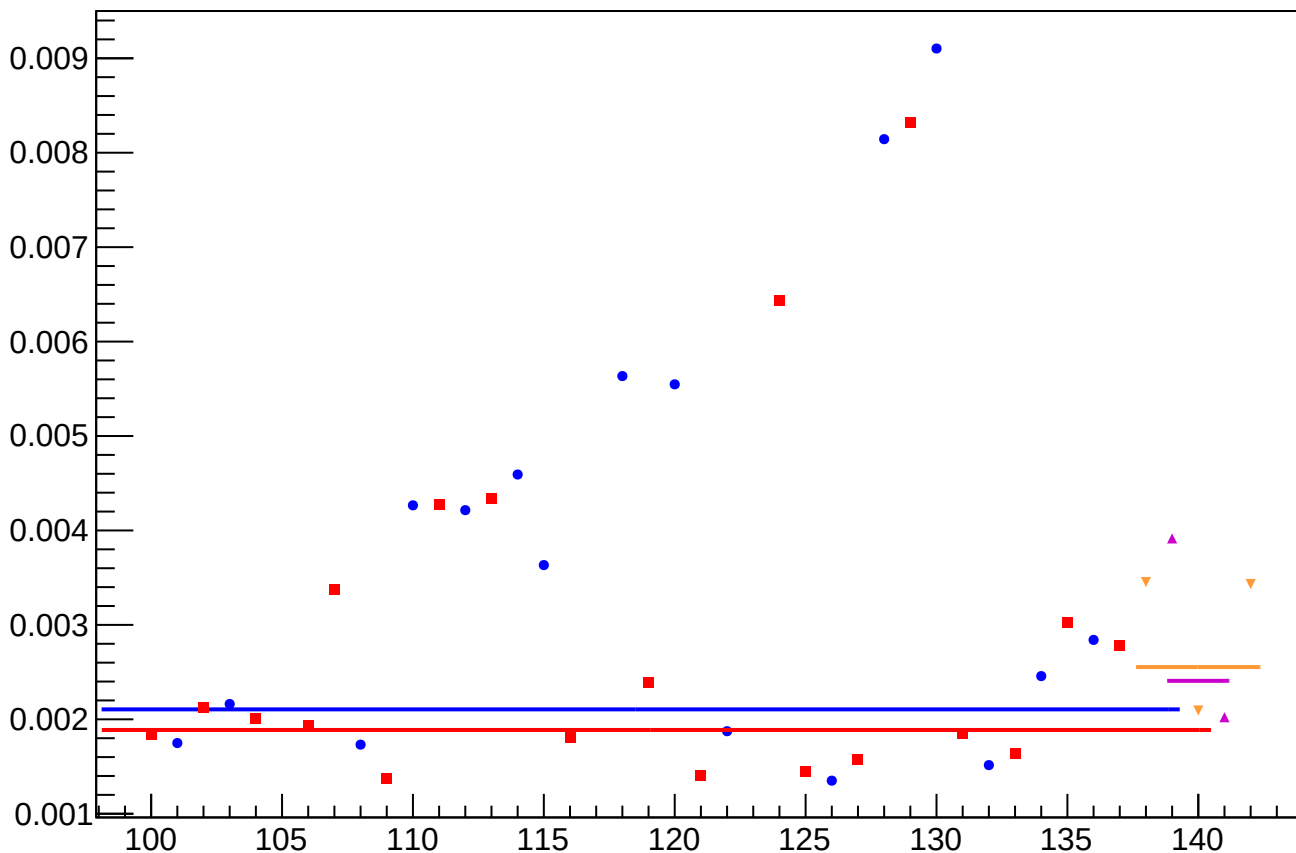
Right: -0.000+/-0.000 χ^2/NDF : 42.2/34

In: -0.000+/-0.000 χ^2/NDF : 20.7/17

Out: -0.000+/-0.000 χ^2/NDF : 21.2/21

All: -0.000+/-0.000 χ^2/NDF : 45.1/39

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3017568.9/15

Left Out: 0.003+/-0.000 χ^2/NDF :237760.6/2

Right Out: 0.002+/-0.000 χ^2/NDF : 1892000.0/18

Left In: 0.002+/-0.000 χ^2/NDF :314422.3/1

Left: 0.002+/-0.000 χ^2/NDF : 558116.9/4

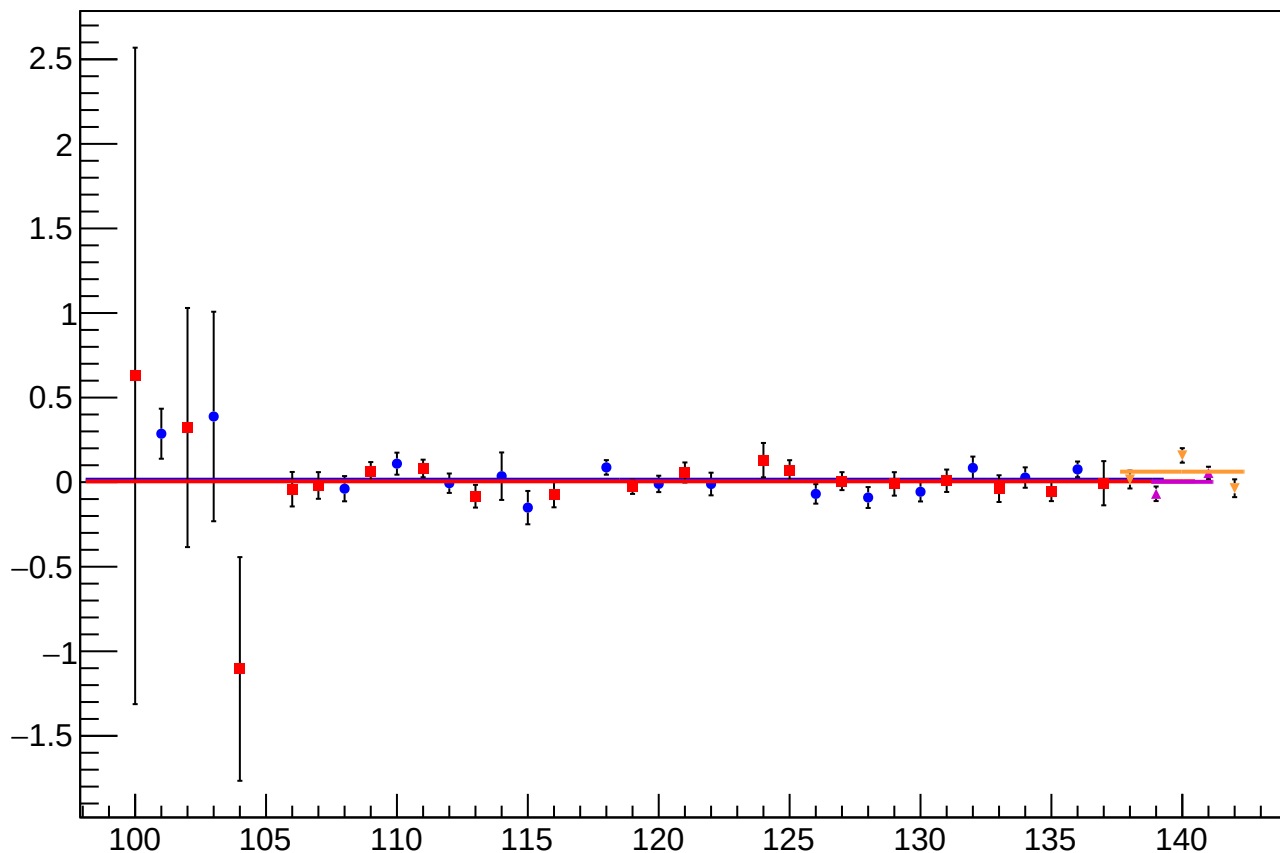
Right: 0.002+/-0.000 χ^2/NDF : 4976274.3/34

In: 0.002+/-0.000 χ^2/NDF :3372628.3/17

Out: 0.002+/-0.000 χ^2/NDF :2347434.1/21

All: 0.002+/-0.000 χ^2/NDF : 5768910.7/39

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.016 χ^2 /NDF: 22.0/15

Left Out: 0.062 $\pm$ 0.028 χ^2 /NDF:9.2/2

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: 0.002 $\pm$ 0.028 χ^2 /NDF:4.7/1

Left: 0.032 $\pm$ 0.020 χ^2 /NDF: 16.2/4

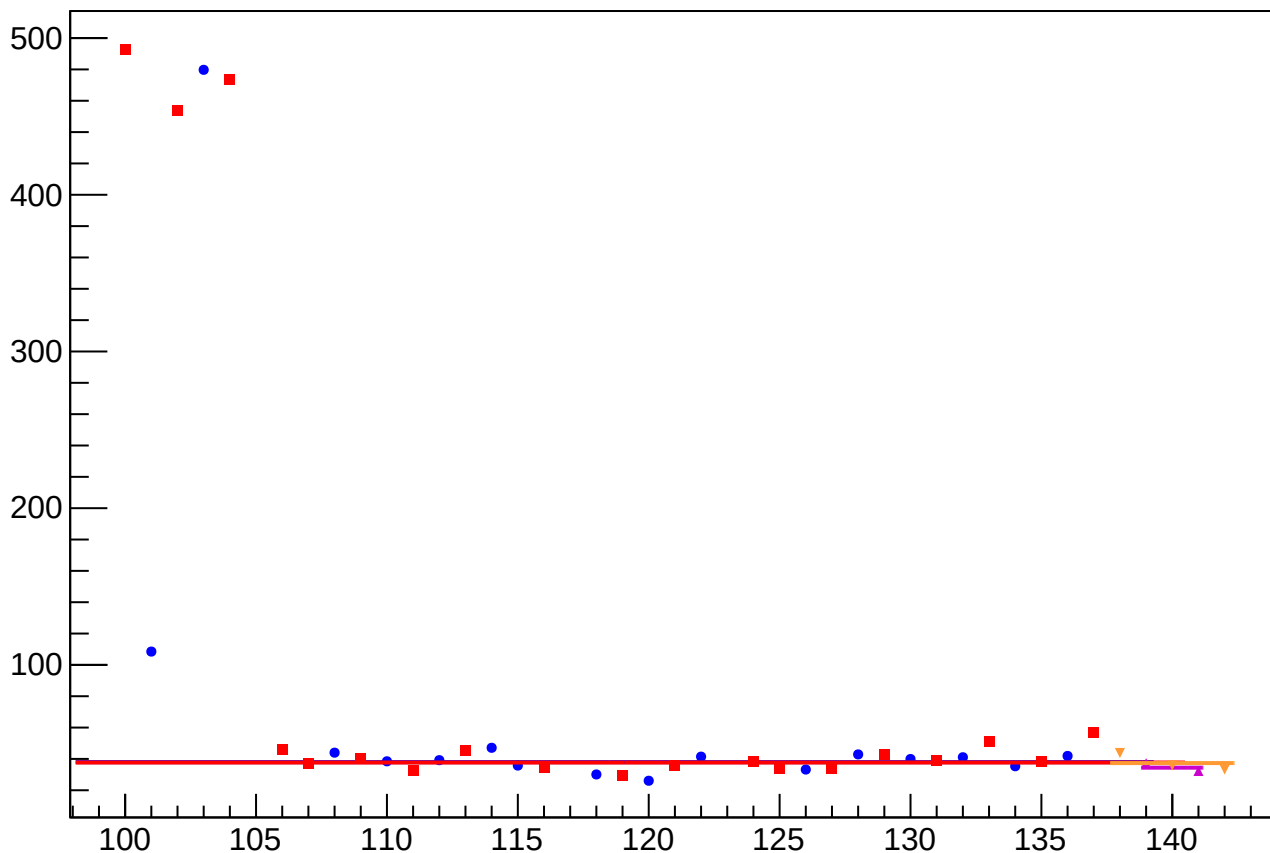
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.011 $\pm$ 0.014 χ^2 /NDF:26.9/17

Out: 0.019 $\pm$ 0.014 χ^2 /NDF:27.2/21

All: 0.015 $\pm$ 0.010 χ^2 /NDF: 54.2/39

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.942+/-0.011 χ^2/NDF : 1739681.1/15

Left Out: 37.338+/-0.020 χ^2/NDF : 44536.0/2

Right Out: 37.695+/-0.011 χ^2/NDF : 1944959.2/18

Left In: 34.413+/-0.020 χ^2/NDF : 15191.6/1

Left: 35.870+/-0.014 χ^2/NDF : 70554.8/4

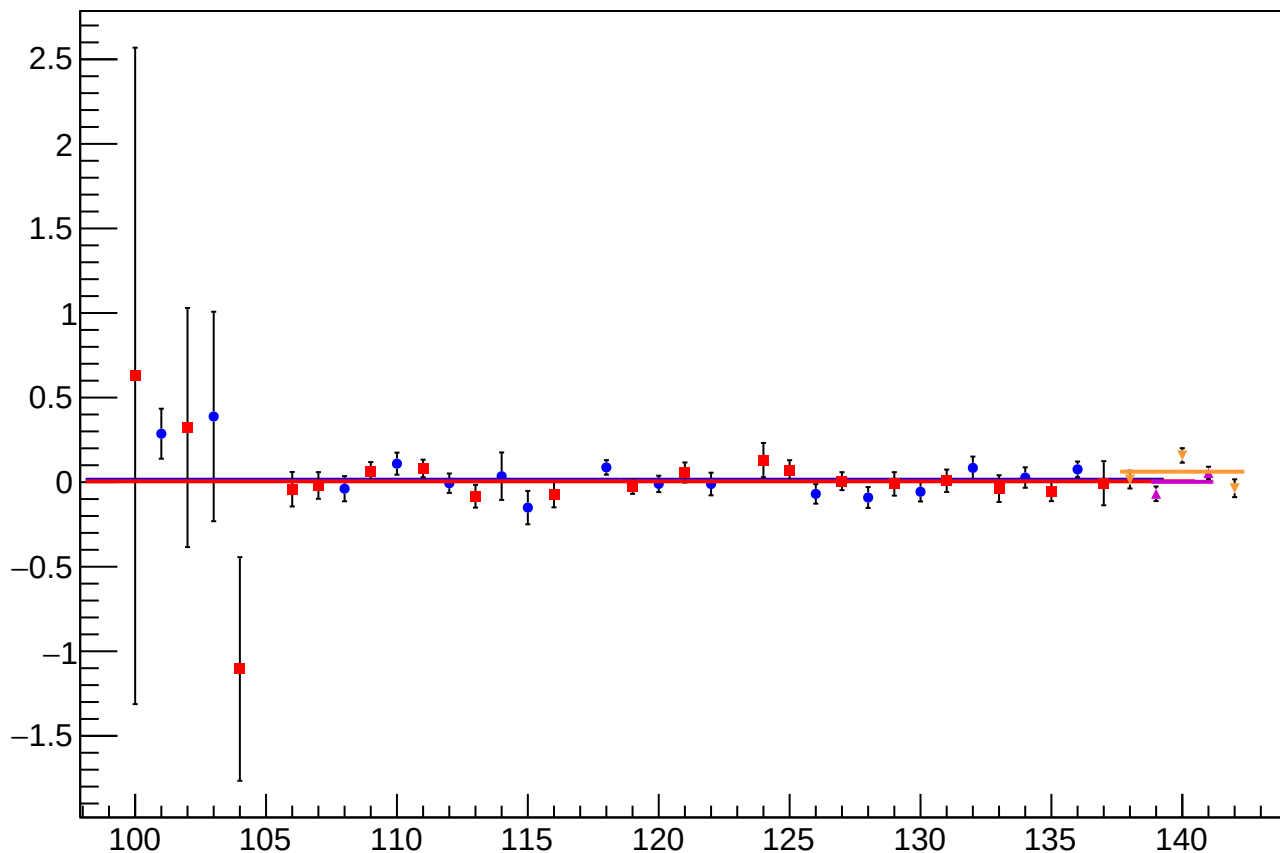
Right: 37.819+/-0.008 χ^2/NDF : 3684879.3/34

In: 37.082+/-0.010 χ^2/NDF : 1778791.8/17

Out: 37.607+/-0.010 χ^2/NDF : 1989736.5/21

All: 37.343+/-0.007 χ^2/NDF : 3769958.9/39

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.016 χ^2 /NDF: 22.0/15

Left Out: 0.062 $\pm$ 0.028 χ^2 /NDF:9.2/2

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: 0.002 $\pm$ 0.028 χ^2 /NDF:4.7/1

Left: 0.032 $\pm$ 0.020 χ^2 /NDF: 16.2/4

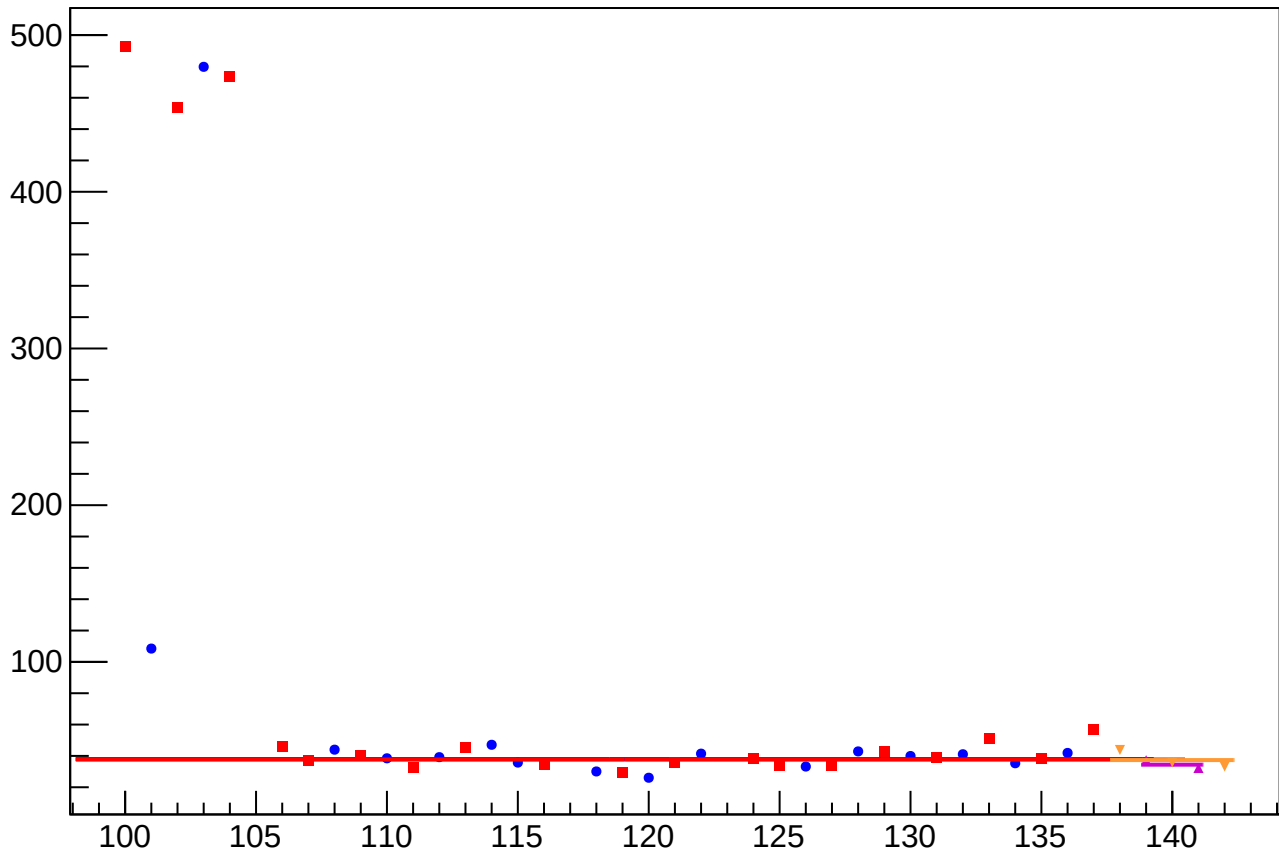
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.011 $\pm$ 0.014 χ^2 /NDF:26.9/17

Out: 0.019 $\pm$ 0.014 χ^2 /NDF:27.2/21

All: 0.015 $\pm$ 0.010 χ^2 /NDF: 54.2/39

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.942 $\pm$ 0.011 χ^2 /NDF: 1739681.1/15

Left Out: 37.338 $\pm$ 0.020 χ^2 /NDF: 44536.0/2

Right Out: 37.695 $\pm$ 0.011 χ^2 /NDF: 1944959.2/18

Left In: 34.413 $\pm$ 0.020 χ^2 /NDF: 15191.6/1

Left: 35.870 $\pm$ 0.014 χ^2 /NDF: 70554.8/4

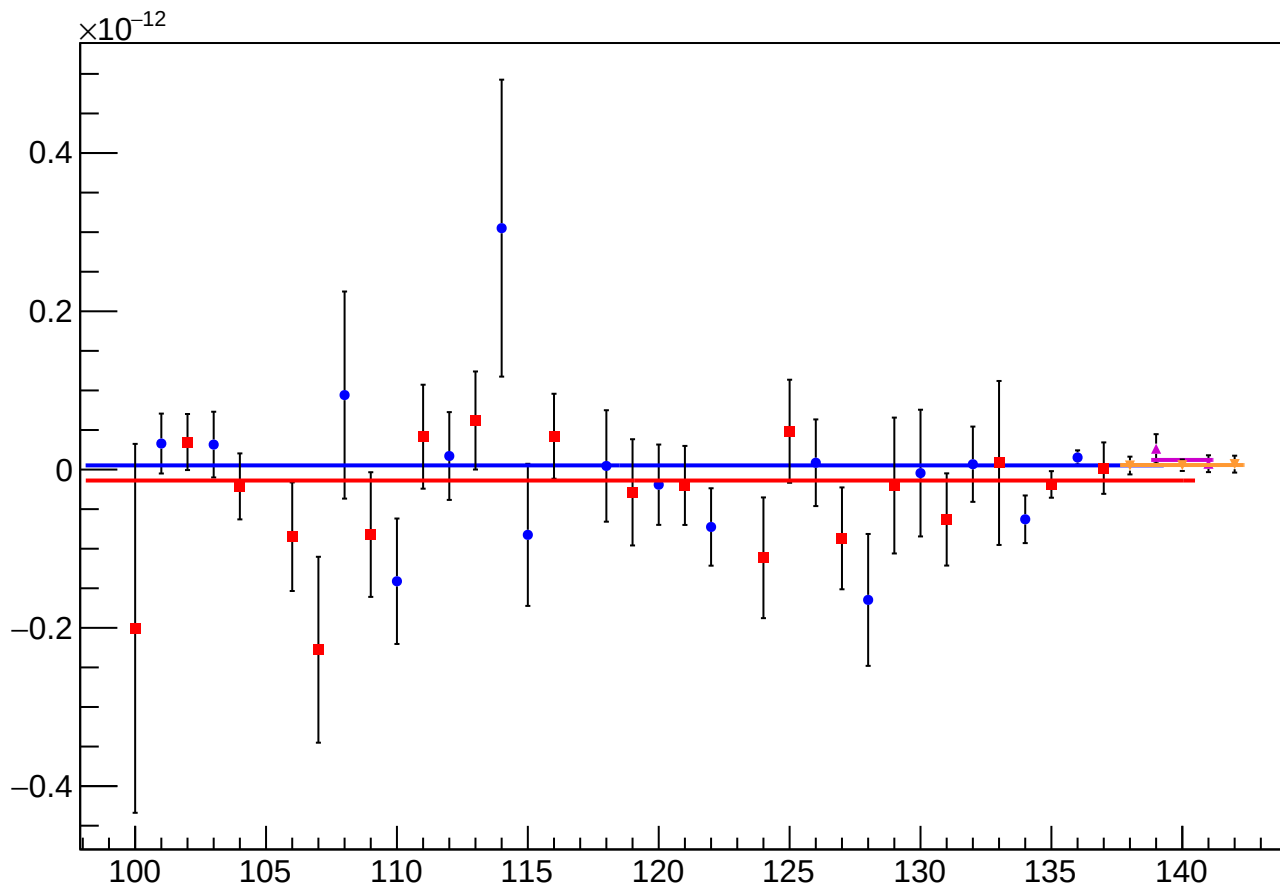
Right: 37.819 $\pm$ 0.008 χ^2 /NDF: 3684879.3/34

In: 37.082 $\pm$ 0.010 χ^2 /NDF: 1778791.8/17

Out: 37.607 $\pm$ 0.010 χ^2 /NDF: 1989736.5/21

All: 37.343 $\pm$ 0.007 χ^2 /NDF: 3769958.9/39

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 21.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/2

Right Out: -0.000+/-0.000 χ^2/NDF : 16.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.8/1

Left: 0.000+/-0.000 χ^2/NDF : 1.2/4

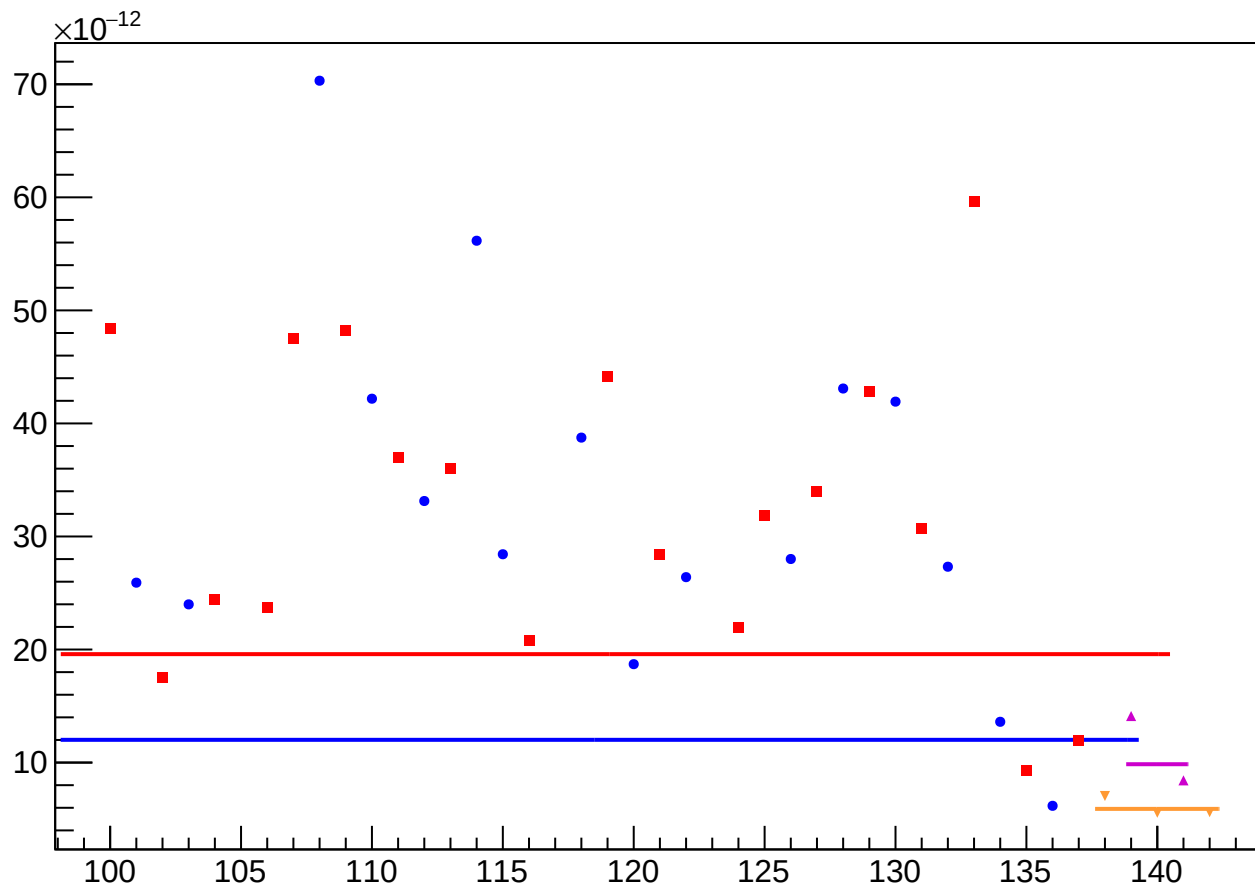
Right: -0.000+/-0.000 χ^2/NDF : 39.8/34

In: 0.000+/-0.000 χ^2/NDF : 22.8/17

Out: 0.000+/-0.000 χ^2/NDF : 18.7/21

All: 0.000+/-0.000 χ^2/NDF : 42.2/39

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3869196.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 26520.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2619469.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 143420.8/1

Left: 0.000+/-0.000 χ^2/NDF : 446664.2/4

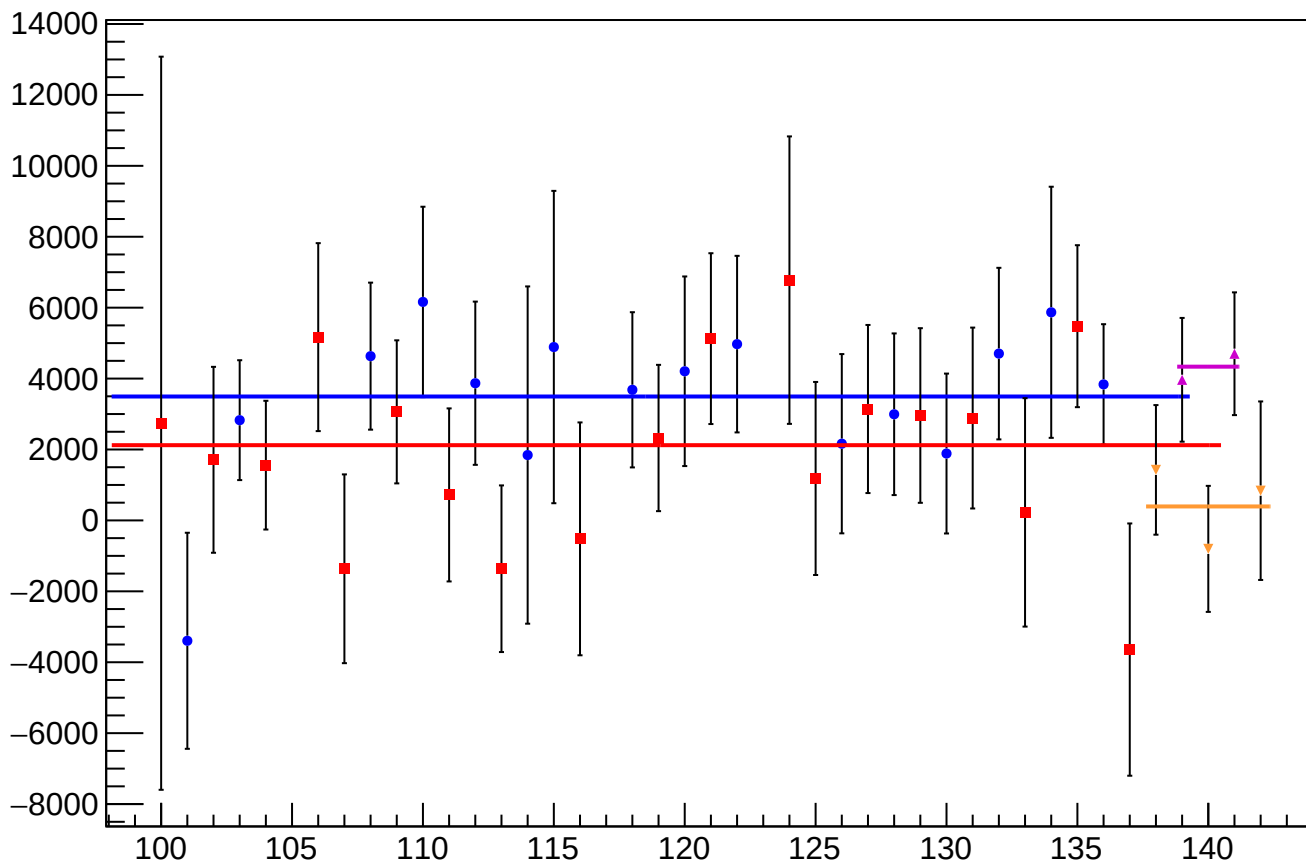
Right: 0.000+/-0.000 χ^2/NDF : 7170019.9/34

In: 0.000+/-0.000 χ^2/NDF : 4078179.9/17

Out: 0.000+/-0.000 χ^2/NDF : 5332455.0/21

All: 0.000+/-0.000 χ^2/NDF : 9630803.2/39

reg_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3494.380+/-601.185 χ^2/NDF : 8.8/15

Left Out: 393.688+/-1136.831 χ^2/NDF : 0.8/2

Right Out: 2121.717+/-587.617 χ^2/NDF : 15.1/18

Left In: 4336.023+/-1228.887 χ^2/NDF : 0.1/1

Left: 2211.682+/-834.510 χ^2/NDF : 6.4/4

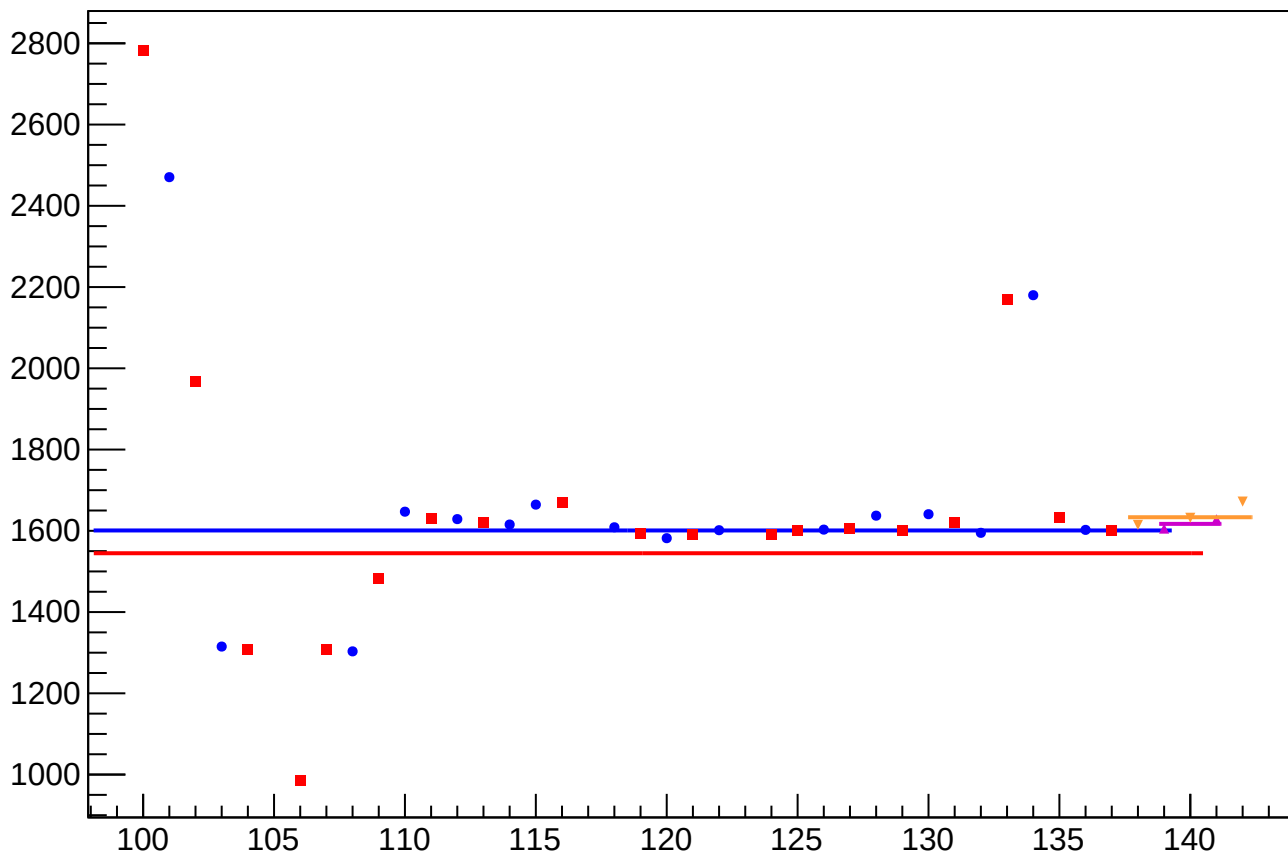
Right: 2792.384+/-420.223 χ^2/NDF : 26.6/34

In: 3656.910+/-540.026 χ^2/NDF : 9.3/17

Out: 1757.374+/-522.006 χ^2/NDF : 17.7/21

All: 2674.921+/-375.323 χ^2/NDF : 33.4/39

reg_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1600.880 $\pm$ 0.425 χ^2 /NDF: 317414.0/15

Left Out: 1633.439 $\pm$ 0.804 χ^2 /NDF:682.6/2

Right Out: 1544.809 $\pm$ 0.409 χ^2 /NDF: 376127.4/18

Left In: 1617.055 $\pm$ 0.869 χ^2 /NDF:175.0/1

Left: 1625.883 $\pm$ 0.590 χ^2 /NDF: 1049.1/4

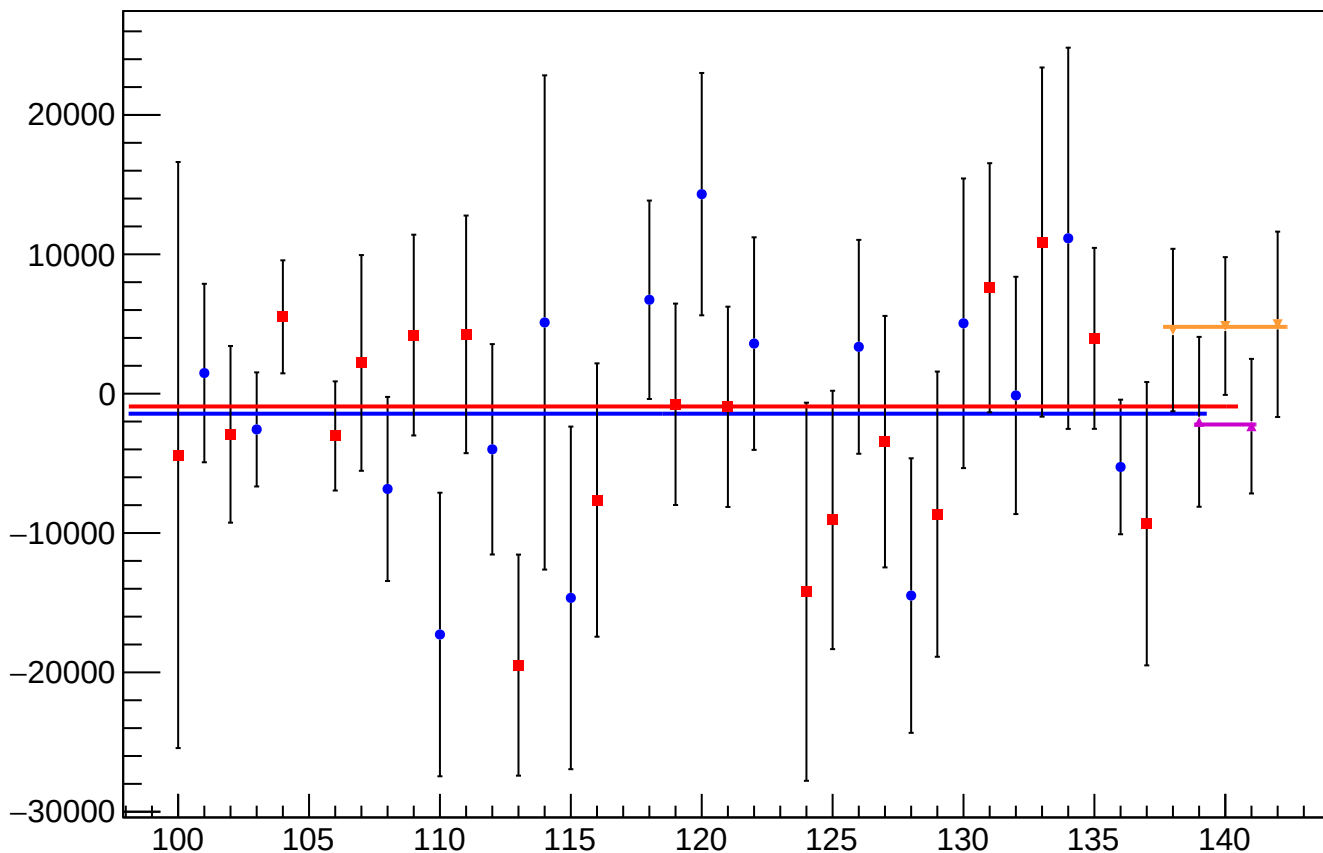
Right: 1571.734 $\pm$ 0.295 χ^2 /NDF: 702584.8/34

In: 1604.003 $\pm$ 0.382 χ^2 /NDF:317868.6/17

Out: 1563.005 $\pm$ 0.364 χ^2 /NDF:386470.5/21

All: 1582.536 $\pm$ 0.264 χ^2 /NDF: 710374.9/39

asym_usr_atr2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1437.118 $\pm$ 1848.287 χ^2 /NDF: 13.9/15

Left Out: 4792.513 $\pm$ 3279.633 χ^2 /NDF:0.0/2

Right Out: -918.485 $\pm$ 1669.278 χ^2 /NDF: 15.3/18

Left In: -2212.211 $\pm$ 3785.032 χ^2 /NDF:0.0/1

Left: 1788.710 $\pm$ 2478.619 χ^2 /NDF: 2.0/4

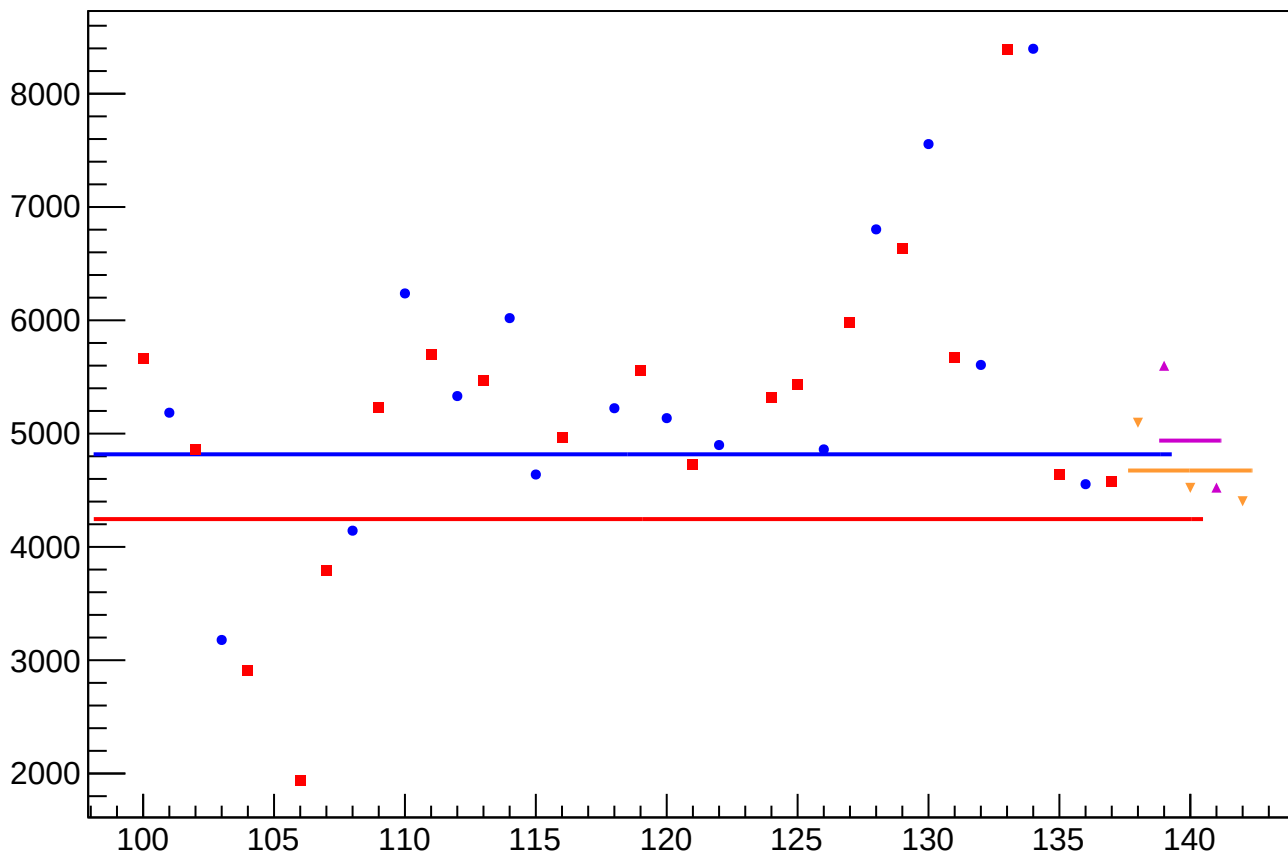
Right: -1151.477 $\pm$ 1238.823 χ^2 /NDF: 29.2/34

In: -1586.355 $\pm$ 1660.848 χ^2 /NDF:13.9/17

Out: 256.604 $\pm$ 1487.664 χ^2 /NDF:17.8/21

All: -563.809 $\pm$ 1108.124 χ^2 /NDF: 32.3/39

asym_usr_atr2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 4817.344+/-1.307 χ^2/NDF : 795431.1/15

Left Out: 4674.318+/-2.319 χ^2/NDF : 15721.7/2

Right Out: 4245.533+/-1.180 χ^2/NDF : 1683159.2/18

Left In: 4938.326+/-2.676 χ^2/NDF : 38248.2/1

Left: 4787.531+/-1.753 χ^2/NDF : 59527.6/4

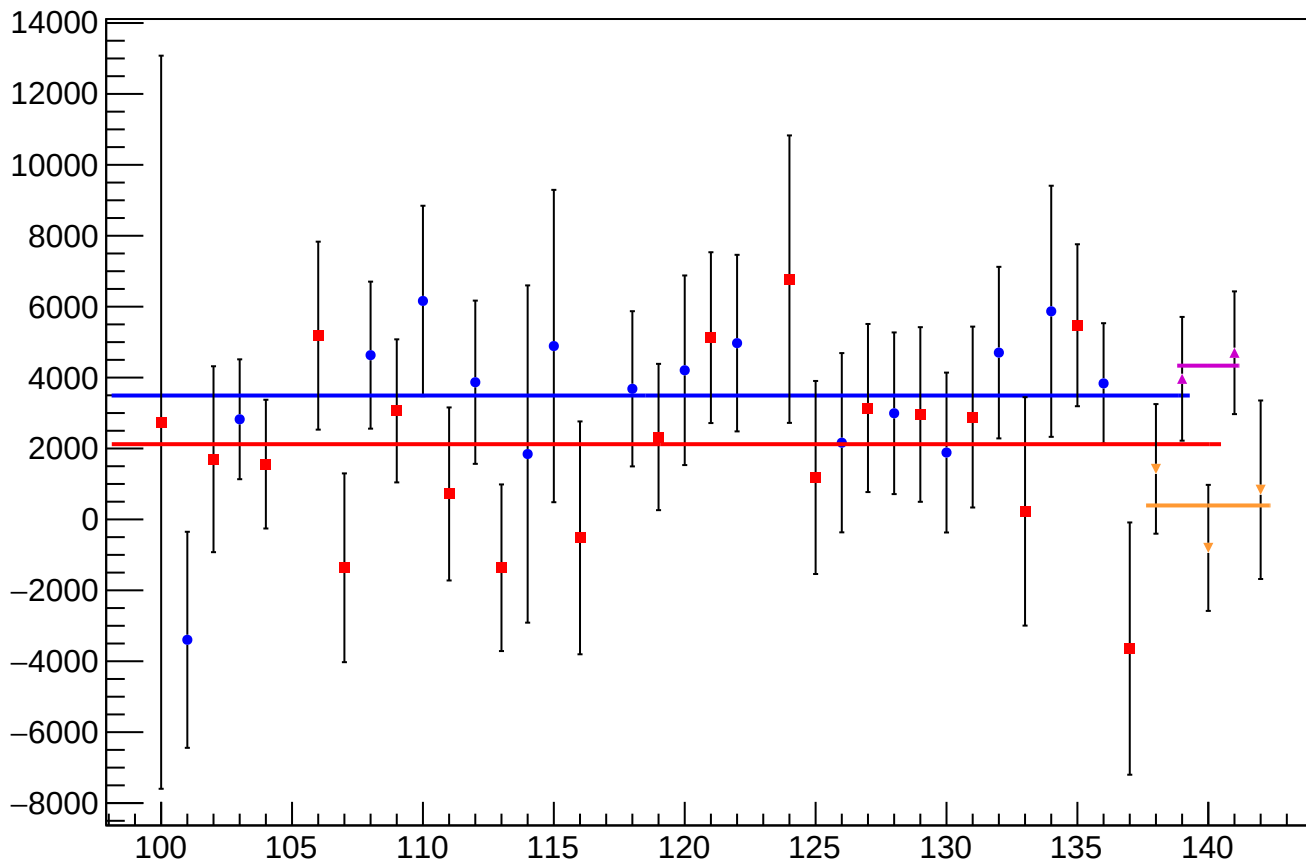
Right: 4502.414+/-0.876 χ^2/NDF : 2584018.5/34

In: 4840.638+/-1.174 χ^2/NDF : 835329.2/17

Out: 4333.760+/-1.052 χ^2/NDF : 1726033.5/21

All: 4559.402+/-0.784 χ^2/NDF : 2664720.7/39

cor_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3494.046 $\pm$ 601.185 χ^2 /NDF: 8.8/15

Left Out: 393.466 $\pm$ 1136.831 χ^2 /NDF:0.8/2

Right Out: 2121.708 $\pm$ 587.619 χ^2 /NDF: 15.1/18

Left In: 4336.227 $\pm$ 1228.887 χ^2 /NDF:0.1/1

Left: 2211.657 $\pm$ 834.510 χ^2 /NDF: 6.4/4

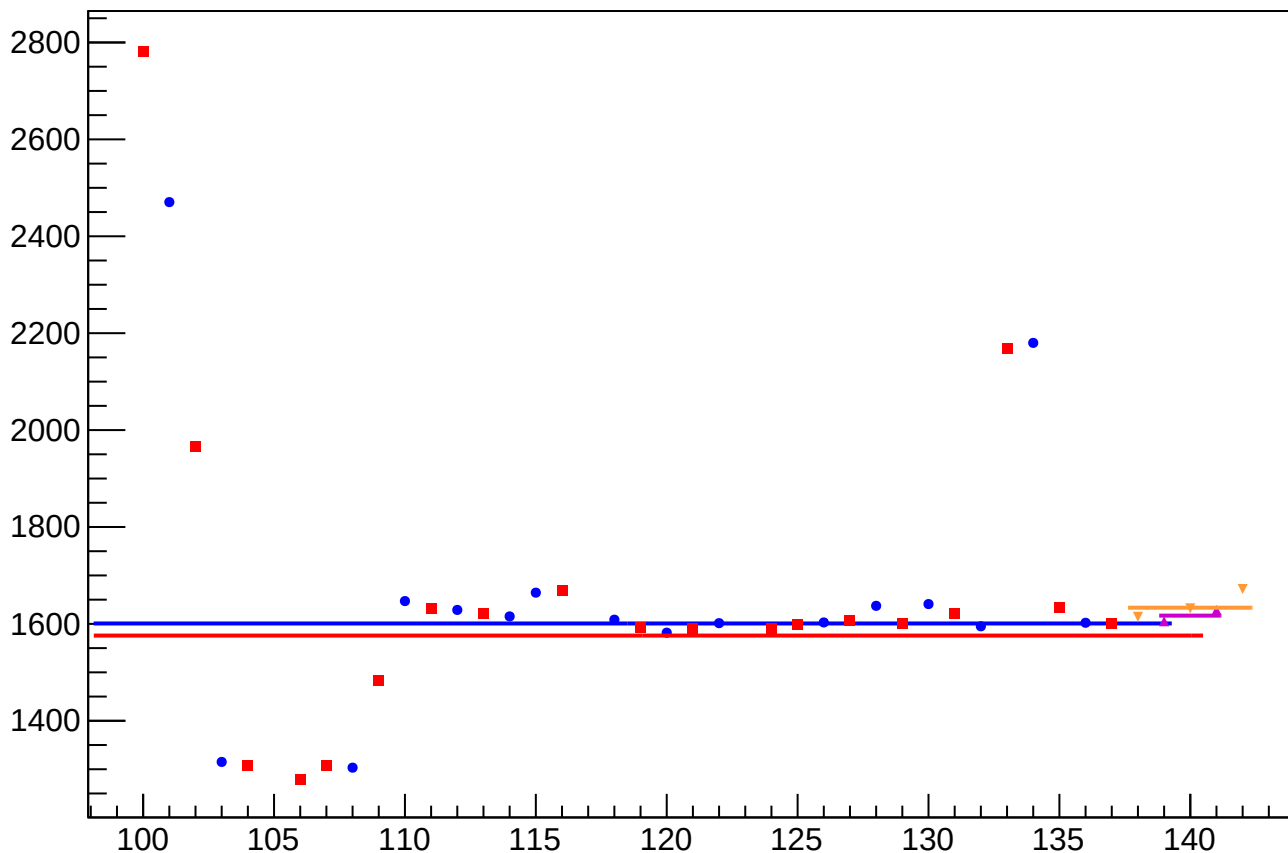
Right: 2792.219 $\pm$ 420.224 χ^2 /NDF: 26.6/34

In: 3656.680 $\pm$ 540.027 χ^2 /NDF:9.3/17

Out: 1757.317 $\pm$ 522.008 χ^2 /NDF:17.7/21

All: 2674.784 $\pm$ 375.324 χ^2 /NDF: 33.4/39

cor_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1600.880+/-0.425 χ^2/NDF : 317413.1/15

Left Out: 1633.439+/-0.804 χ^2/NDF : 682.6/2

Right Out: 1575.900+/-0.414 χ^2/NDF : 243332.0/18

Left In: 1617.055+/-0.869 χ^2/NDF : 175.0/1

Left: 1625.883+/-0.590 χ^2/NDF : 1049.1/4

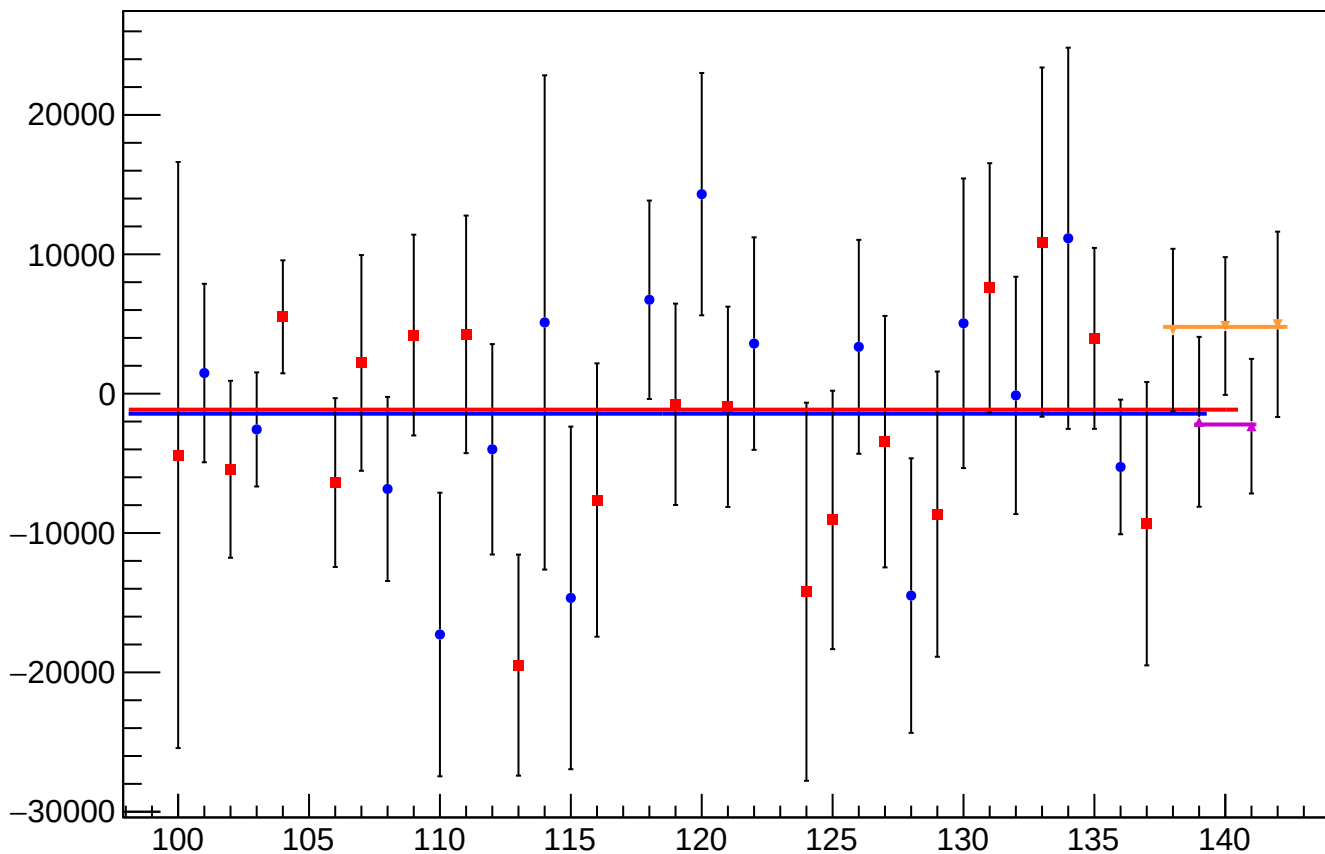
Right: 1588.056+/-0.297 χ^2/NDF : 562517.7/34

In: 1604.003+/-0.382 χ^2/NDF : 317867.7/17

Out: 1587.957+/-0.368 χ^2/NDF : 248064.3/21

All: 1595.683+/-0.265 χ^2/NDF : 566847.7/39

asym_usr_atr2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1437.362 $\pm$ 1848.324 χ^2 /NDF: 13.9/15

Left Out: 4792.168 $\pm$ 3279.619 χ^2 /NDF:0.0/2

Right Out: -1146.174 $\pm$ 1765.384 χ^2 /NDF: 16.3/18

Left In: -2212.197 $\pm$ 3785.027 χ^2 /NDF:0.0/1

Left: 1788.530 $\pm$ 2478.611 χ^2 /NDF: 2.0/4

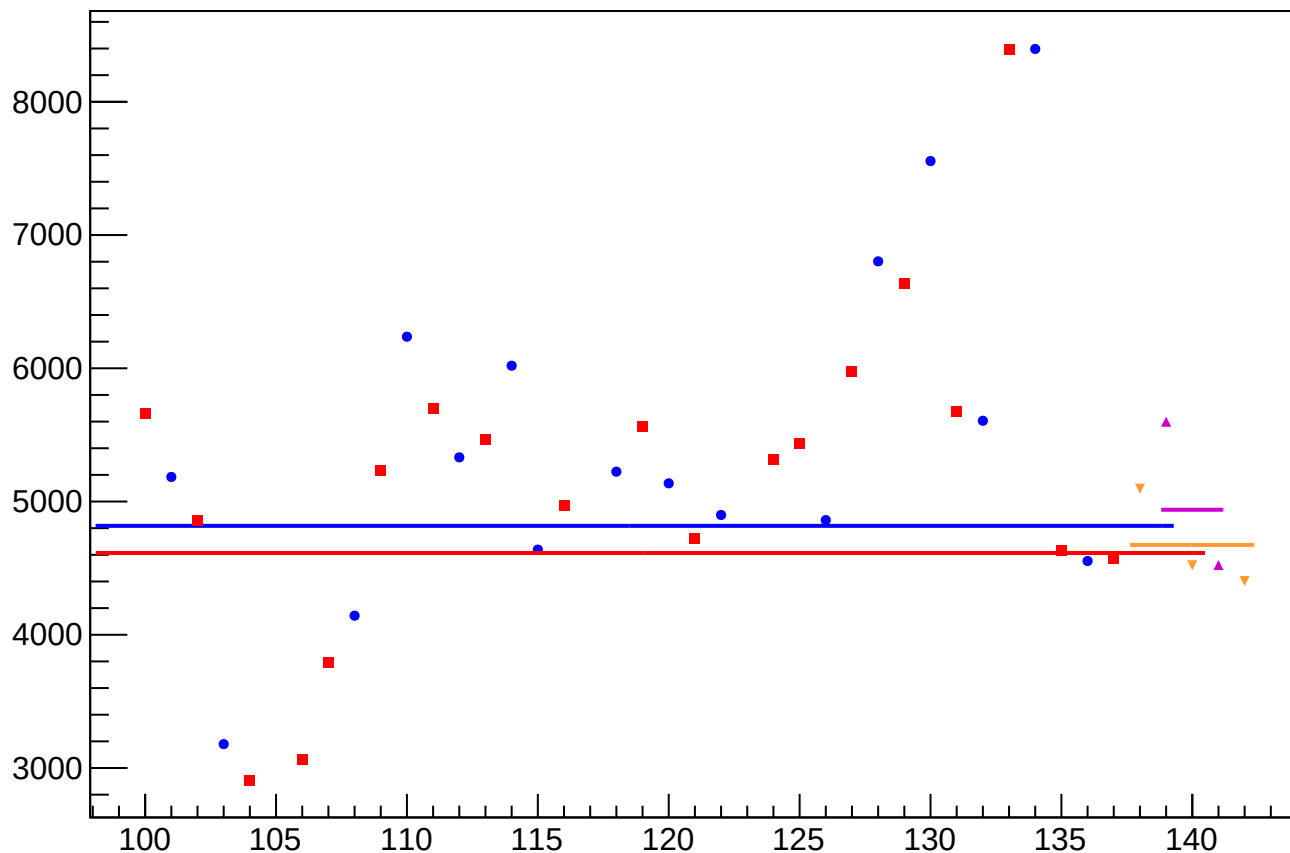
Right: -1285.089 $\pm$ 1276.630 χ^2 /NDF: 30.1/34

In: -1586.554 $\pm$ 1660.875 χ^2 /NDF:13.9/17

Out: 187.929 $\pm$ 1554.481 χ^2 /NDF:18.8/21

All: -640.660 $\pm$ 1134.934 χ^2 /NDF: 33.3/39

asym_usr_atr2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 4817.480+/-1.307 χ^2/NDF : 795233.3/15

Left Out: 4674.296+/-2.319 χ^2/NDF : 15723.0/2

Right Out: 4613.851+/-1.248 χ^2/NDF : 977958.2/18

Left In: 4938.319+/-2.676 χ^2/NDF : 38249.0/1

Left: 4787.516+/-1.753 χ^2/NDF : 59530.4/4

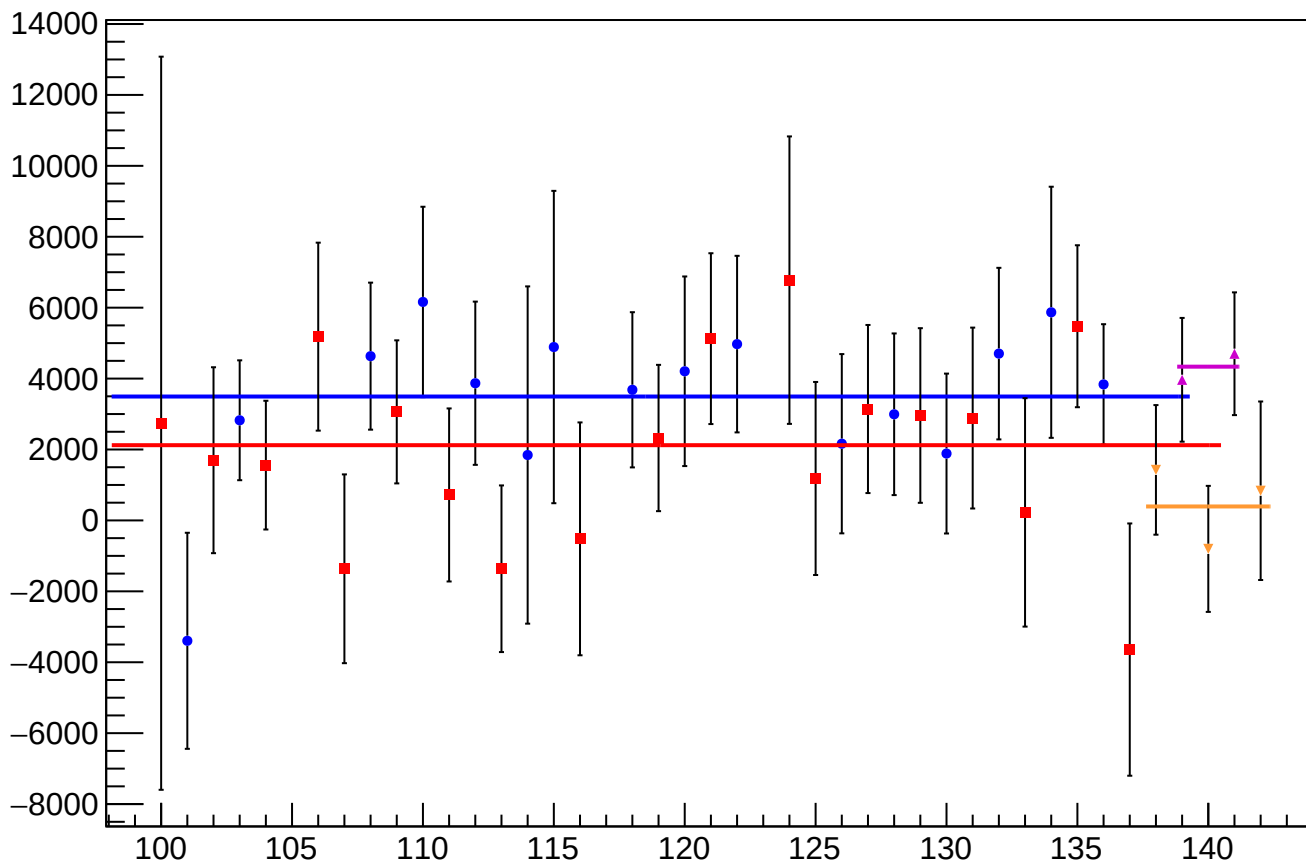
Right: 4710.994+/-0.903 χ^2/NDF : 1785885.7/34

In: 4840.747+/-1.174 χ^2/NDF : 835128.3/17

Out: 4627.430+/-1.099 χ^2/NDF : 994208.0/21

All: 4727.038+/-0.803 χ^2/NDF : 1846922.6/39

eigen_cor_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3494.046+/-601.185 χ^2/NDF : 8.8/15

Left Out: 393.466+/-1136.831 χ^2/NDF : 0.8/2

Right Out: 2121.708+/-587.619 χ^2/NDF : 15.1/18

Left In: 4336.227+/-1228.887 χ^2/NDF : 0.1/1

Left: 2211.657+/-834.510 χ^2/NDF : 6.4/4

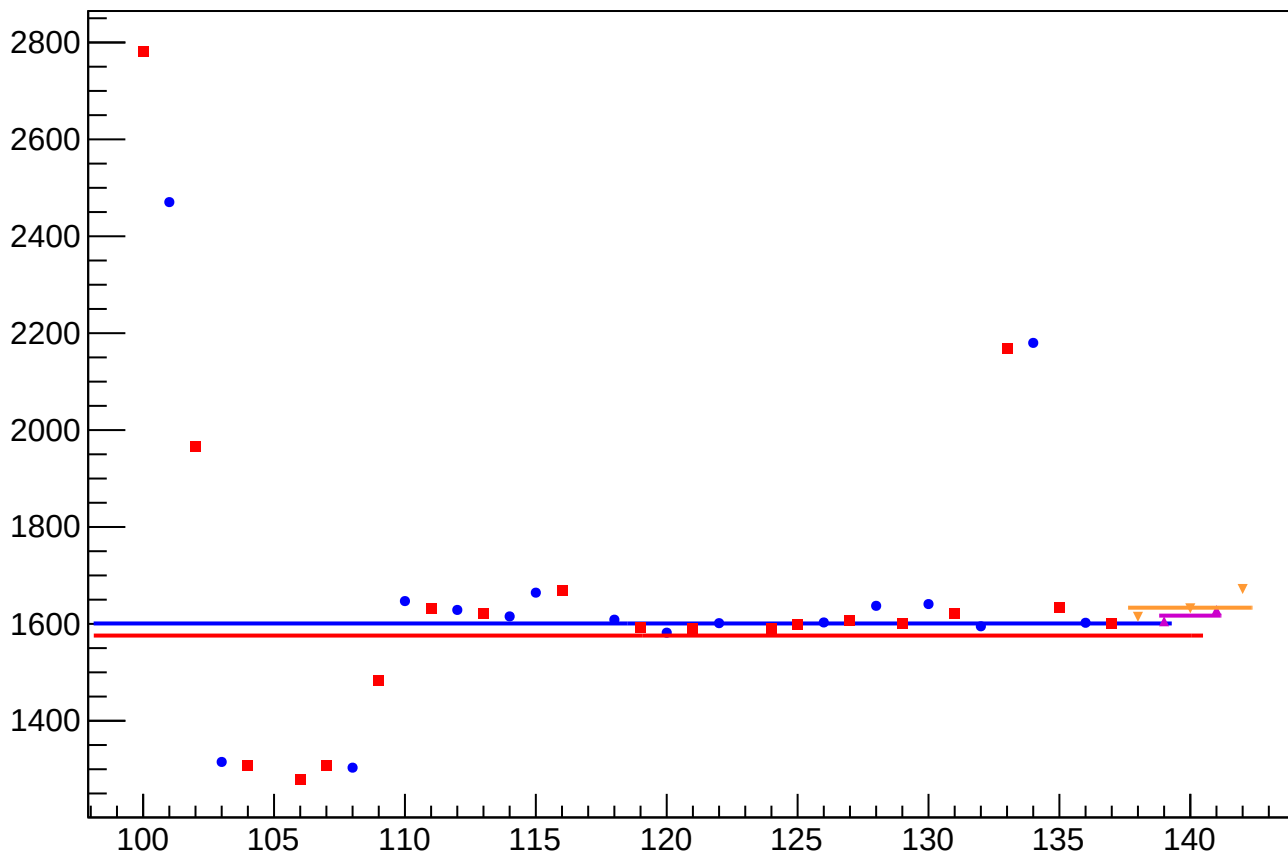
Right: 2792.219+/-420.224 χ^2/NDF : 26.6/34

In: 3656.680+/-540.027 χ^2/NDF : 9.3/17

Out: 1757.317+/-522.008 χ^2/NDF : 17.7/21

All: 2674.784+/-375.324 χ^2/NDF : 33.4/39

eigen_cor_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1600.880+/-0.425 χ^2/NDF : 317413.1/15

Left Out: 1633.439+/-0.804 χ^2/NDF : 682.6/2

Right Out: 1575.900+/-0.414 χ^2/NDF : 243332.0/18

Left In: 1617.055+/-0.869 χ^2/NDF : 175.0/1

Left: 1625.883+/-0.590 χ^2/NDF : 1049.1/4

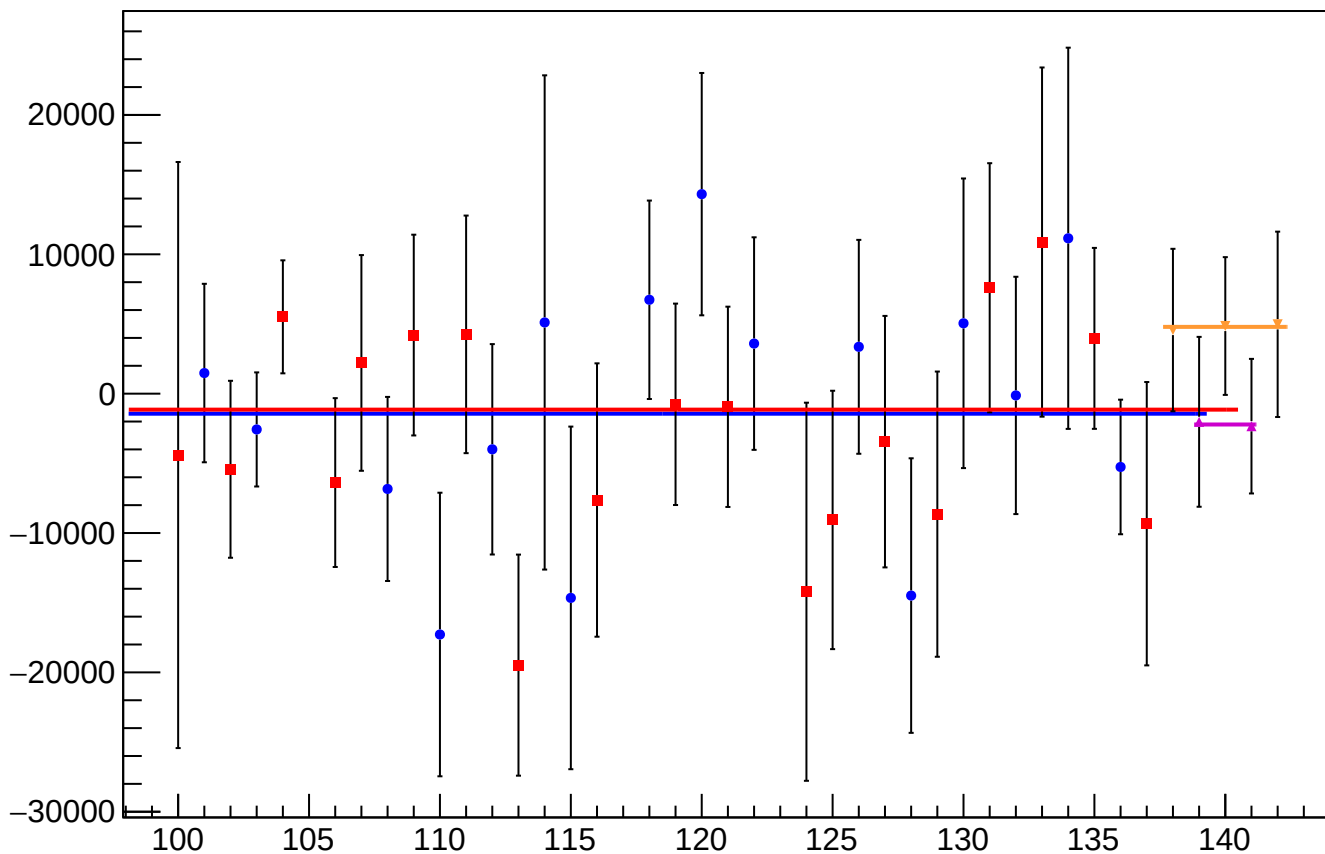
Right: 1588.056+/-0.297 χ^2/NDF : 562517.7/34

In: 1604.003+/-0.382 χ^2/NDF : 317867.7/17

Out: 1587.957+/-0.368 χ^2/NDF : 248064.3/21

All: 1595.683+/-0.265 χ^2/NDF : 566847.7/39

asym_usr_atr2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1437.362 $\pm$ 1848.324 χ^2 /NDF: 13.9/15

Left Out: 4792.168 $\pm$ 3279.619 χ^2 /NDF:0.0/2

Right Out: -1146.174 $\pm$ 1765.384 χ^2 /NDF: 16.3/18

Left In: -2212.197 $\pm$ 3785.027 χ^2 /NDF:0.0/1

Left: 1788.530 $\pm$ 2478.611 χ^2 /NDF: 2.0/4

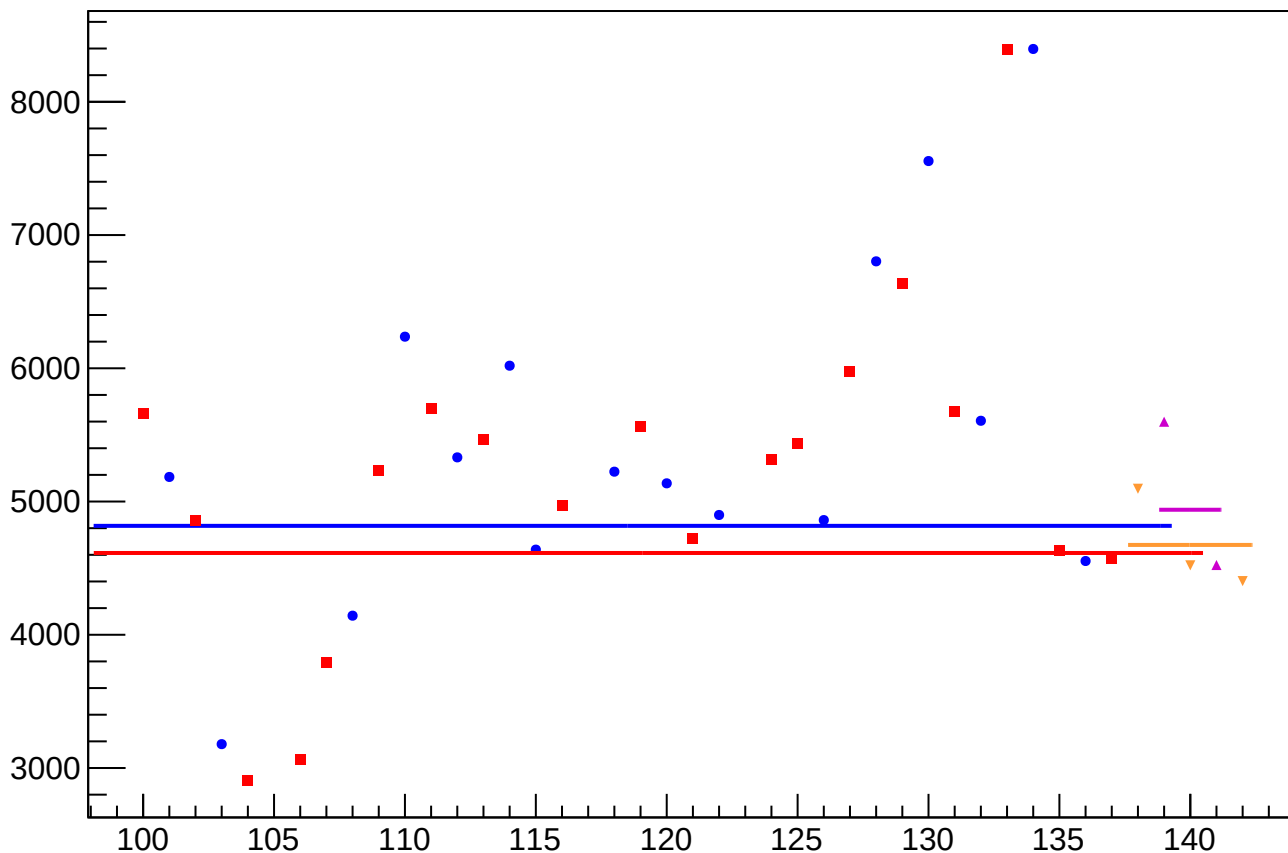
Right: -1285.089 $\pm$ 1276.630 χ^2 /NDF: 30.1/34

In: -1586.554 $\pm$ 1660.875 χ^2 /NDF:13.9/17

Out: 187.929 $\pm$ 1554.481 χ^2 /NDF:18.8/21

All: -640.660 $\pm$ 1134.934 χ^2 /NDF: 33.3/39

asym_usr_atr2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 4817.480+/-1.307 χ^2/NDF : 795233.3/15

Left Out: 4674.296+/-2.319 χ^2/NDF : 15723.0/2

Right Out: 4613.851+/-1.248 χ^2/NDF : 977958.2/18

Left In: 4938.319+/-2.676 χ^2/NDF : 38249.0/1

Left: 4787.516+/-1.753 χ^2/NDF : 59530.4/4

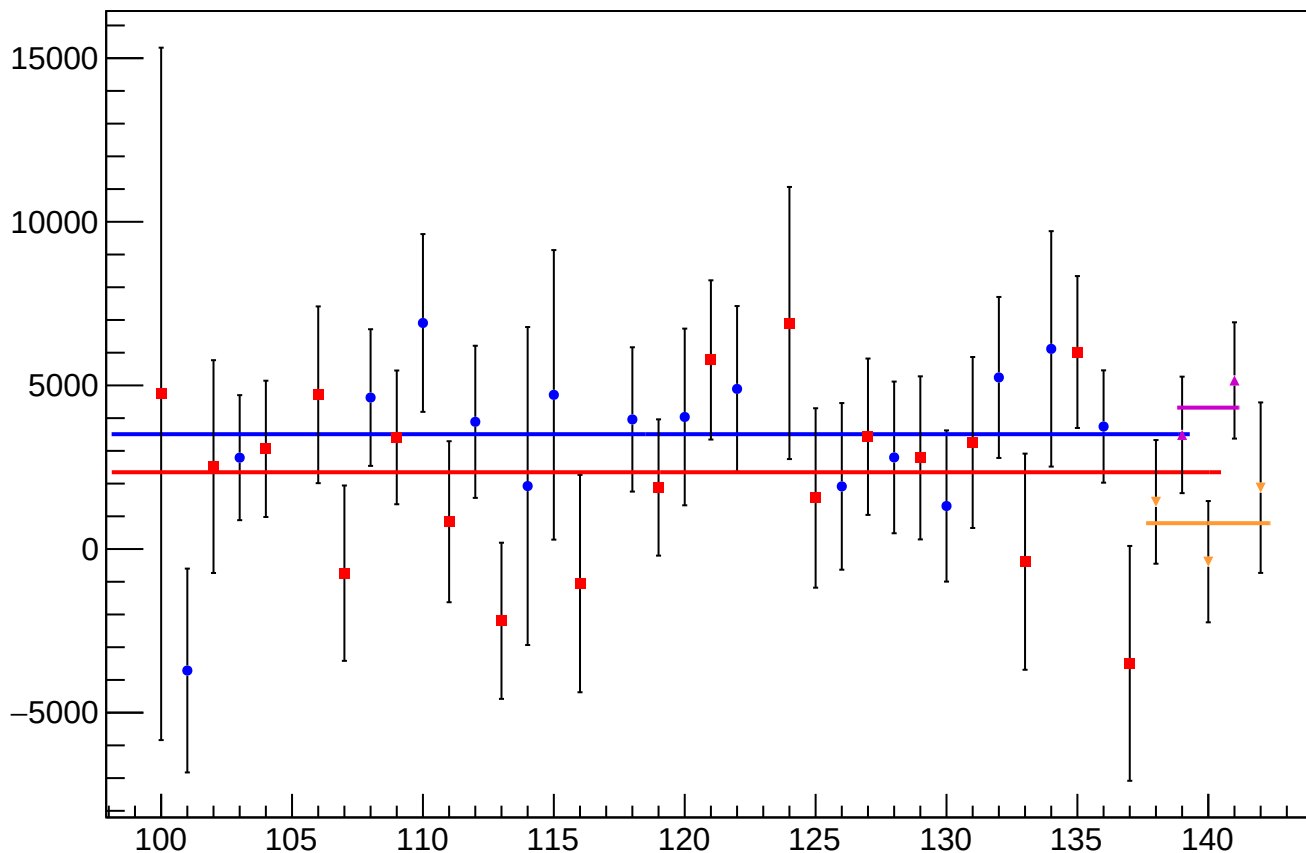
Right: 4710.994+/-0.903 χ^2/NDF : 1785885.7/34

In: 4840.747+/-1.174 χ^2/NDF : 835128.3/17

Out: 4627.430+/-1.099 χ^2/NDF : 994208.0/21

All: 4727.038+/-0.803 χ^2/NDF : 1846922.6/39

dit_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3509.507 $\pm$ 616.724 χ^2 /NDF: 10.4/15

Left Out: 789.752 $\pm$ 1179.605 χ^2 /NDF:0.7/2

Right Out: 2346.859 $\pm$ 607.502 χ^2 /NDF: 17.1/18

Left In: 4321.213 $\pm$ 1257.450 χ^2 /NDF:0.4/1

Left: 2442.795 $\pm$ 860.311 χ^2 /NDF: 5.3/4

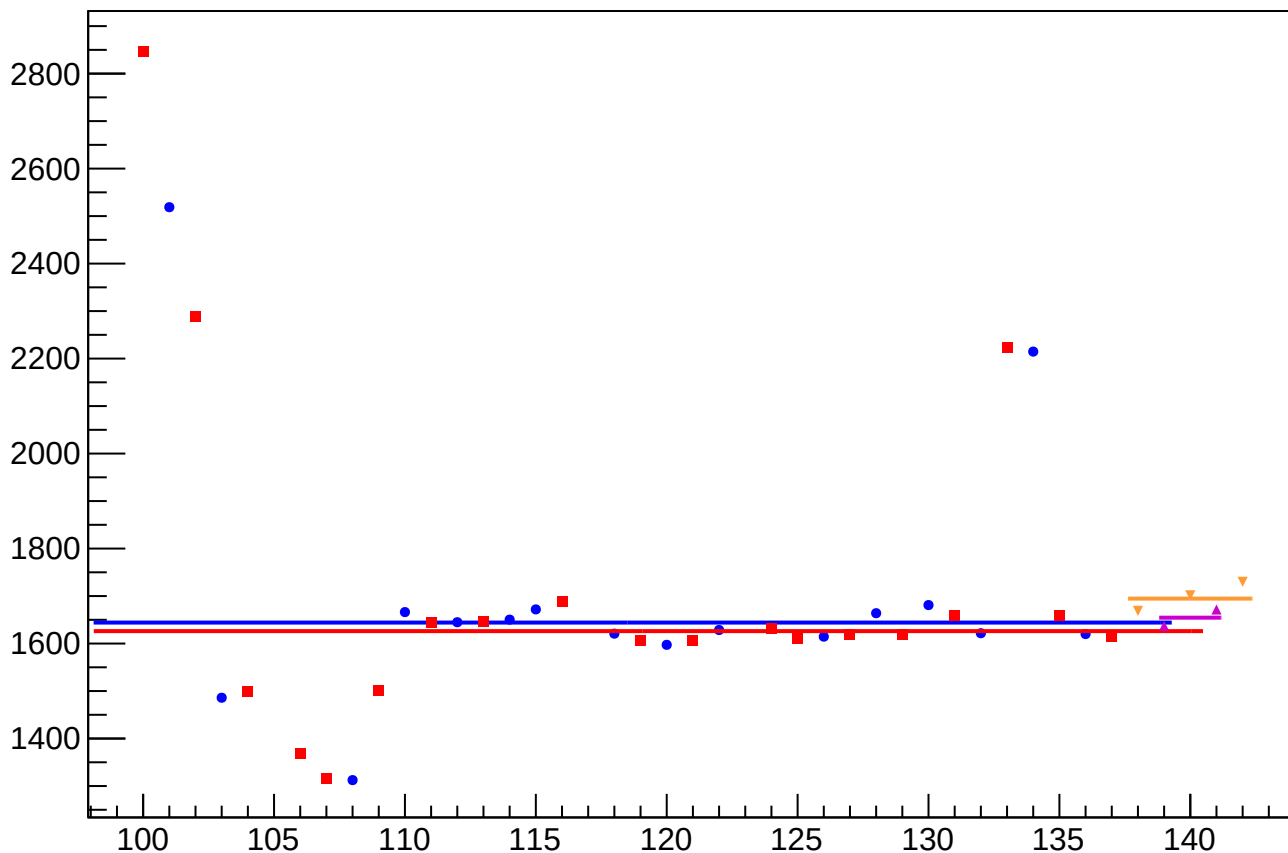
Right: 2919.425 $\pm$ 432.793 χ^2 /NDF: 29.3/34

In: 3666.900 $\pm$ 553.713 χ^2 /NDF:11.2/17

Out: 2020.443 $\pm$ 540.086 χ^2 /NDF:19.2/21

All: 2823.163 $\pm$ 386.626 χ^2 /NDF: 34.9/39

dit_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1644.198 $\pm$ 0.436 χ^2 /NDF: 274817.9/15

Left Out: 1694.623 $\pm$ 0.834 χ^2 /NDF: 770.7/2

Right Out: 1626.174 $\pm$ 0.429 χ^2 /NDF: 237639.1/18

Left In: 1654.482 $\pm$ 0.889 χ^2 /NDF: 374.9/1

Left: 1675.833 $\pm$ 0.608 χ^2 /NDF: 2229.7/4

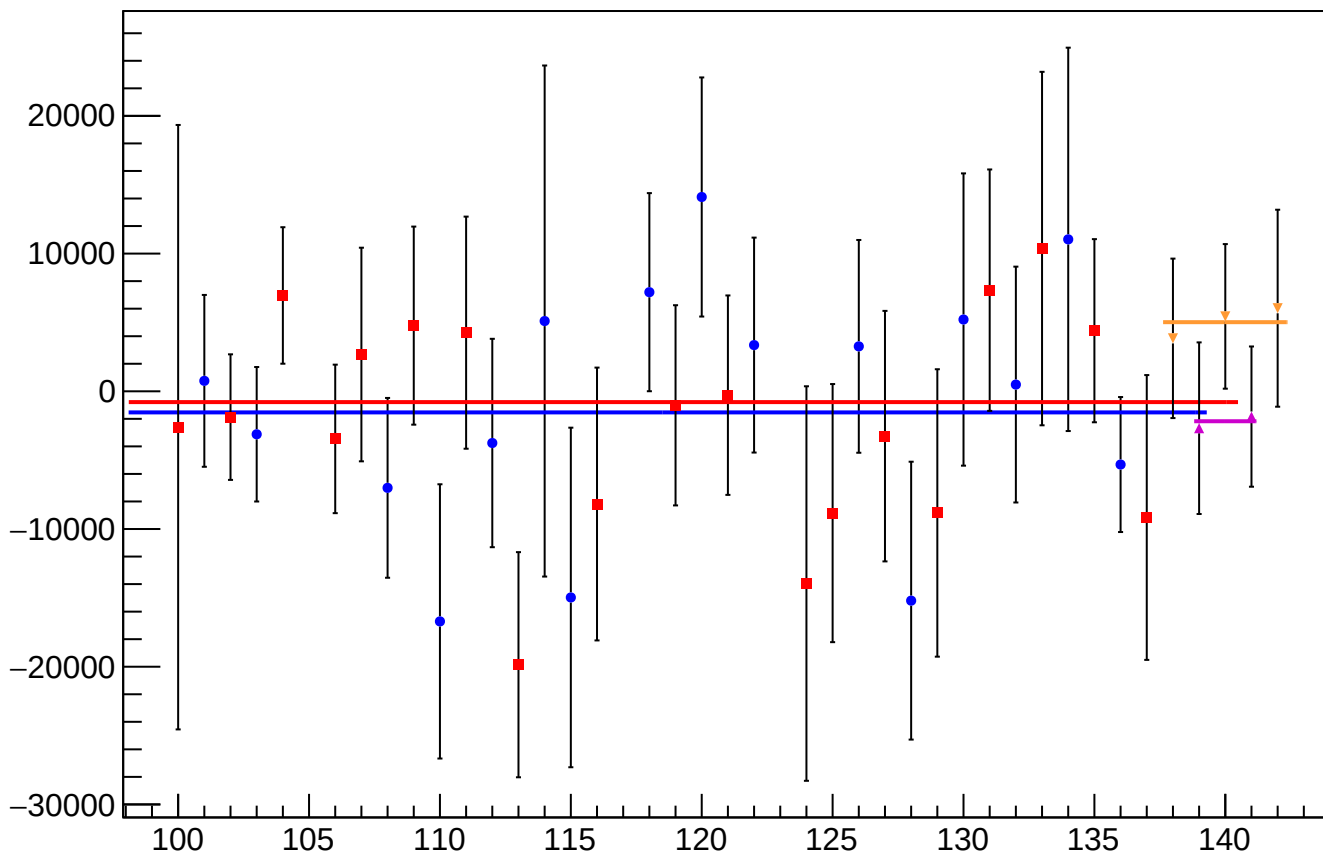
Right: 1635.043 $\pm$ 0.306 χ^2 /NDF: 513324.8/34

In: 1646.192 $\pm$ 0.392 χ^2 /NDF: 275300.6/17

Out: 1640.503 $\pm$ 0.382 χ^2 /NDF: 243734.3/21

All: 1643.275 $\pm$ 0.273 χ^2 /NDF: 519143.2/39

asym_usr_atr2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1532.110+/-1913.799 χ^2/NDF : 13.9/15

Left Out: 5020.103+/-3416.701 χ^2/NDF : 0.1/2

Right Out: -784.235+/-1748.566 χ^2/NDF : 15.0/18

Left In: -2174.182+/-3942.647 χ^2/NDF : 0.0/1

Left: 1934.497+/-2582.048 χ^2/NDF : 2.0/4

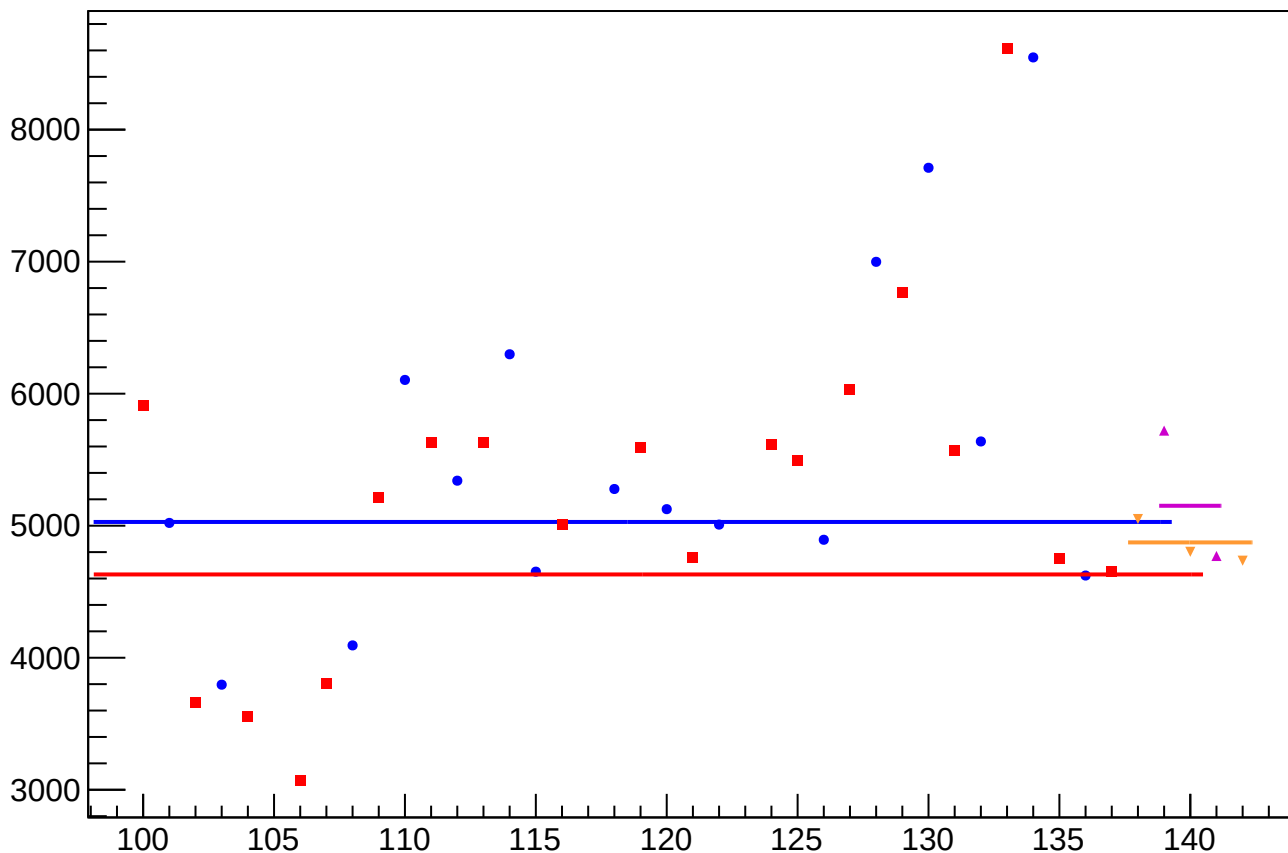
Right: -1124.500+/-1290.893 χ^2/NDF : 29.0/34

In: -1654.548+/-1721.684 χ^2/NDF : 13.9/17

Out: 420.453+/-1556.568 χ^2/NDF : 17.4/21

All: -512.800+/-1154.633 χ^2/NDF : 32.1/39

asym_usr_atr2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 5028.449+/-1.353 χ^2/NDF : 565469.4/15

Left Out: 4873.481+/-2.416 χ^2/NDF : 2989.2/2

Right Out: 4630.901+/-1.236 χ^2/NDF : 863515.0/18

Left In: 5151.014+/-2.788 χ^2/NDF : 27852.6/1

Left: 4992.514+/-1.826 χ^2/NDF : 36501.6/4

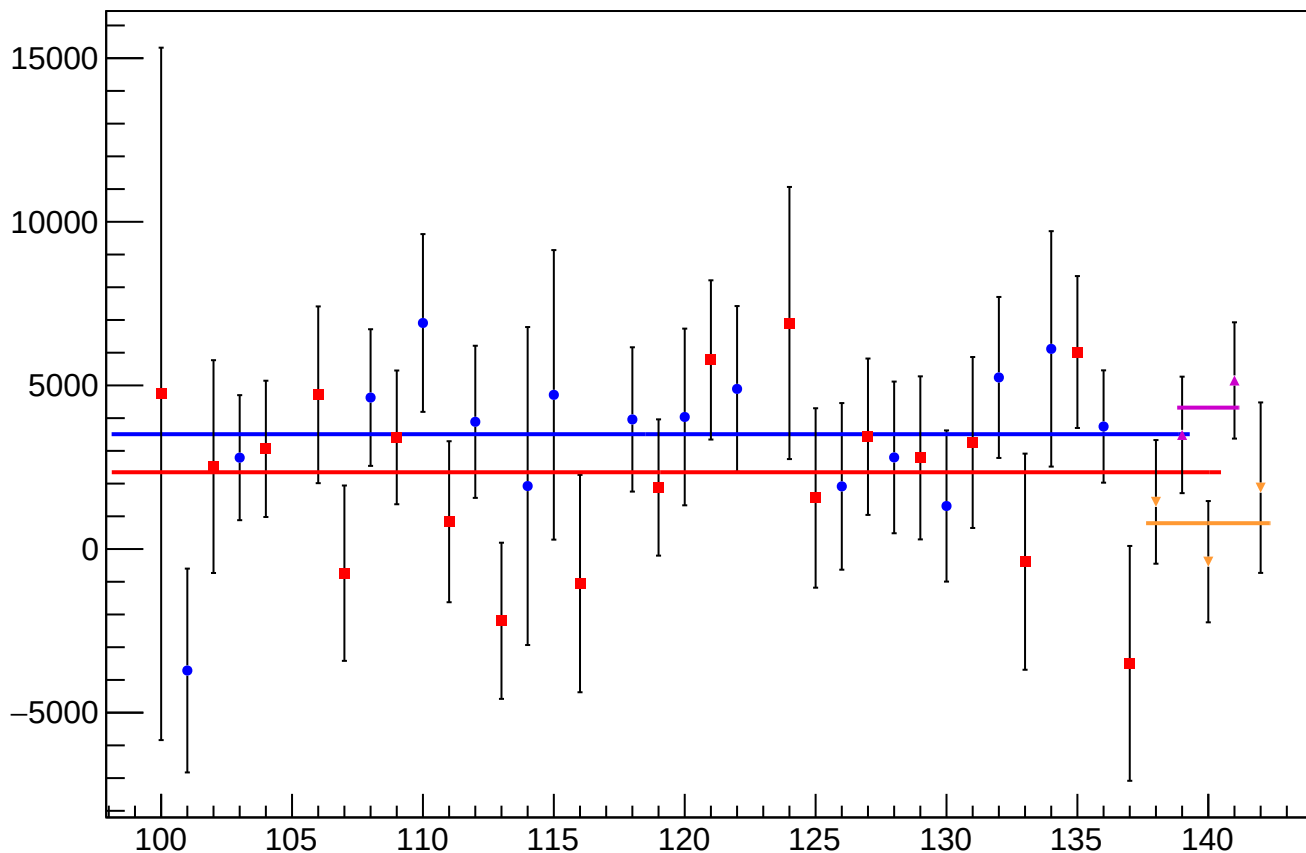
Right: 4811.776+/-0.913 χ^2/NDF : 1476020.7/34

In: 5051.821+/-1.217 χ^2/NDF : 594886.3/17

Out: 4681.248+/-1.101 χ^2/NDF : 874493.2/21

All: 4847.917+/-0.816 χ^2/NDF : 1520362.2/39

eigen_dit_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3509.509 $\pm$ 616.724 χ^2 /NDF: 10.4/15

Left Out: 789.759 $\pm$ 1179.605 χ^2 /NDF: 0.7/2

Right Out: 2346.865 $\pm$ 607.502 χ^2 /NDF: 17.1/18

Left In: 4321.190 $\pm$ 1257.451 χ^2 /NDF: 0.4/1

Left: 2442.788 $\pm$ 860.312 χ^2 /NDF: 5.3/4

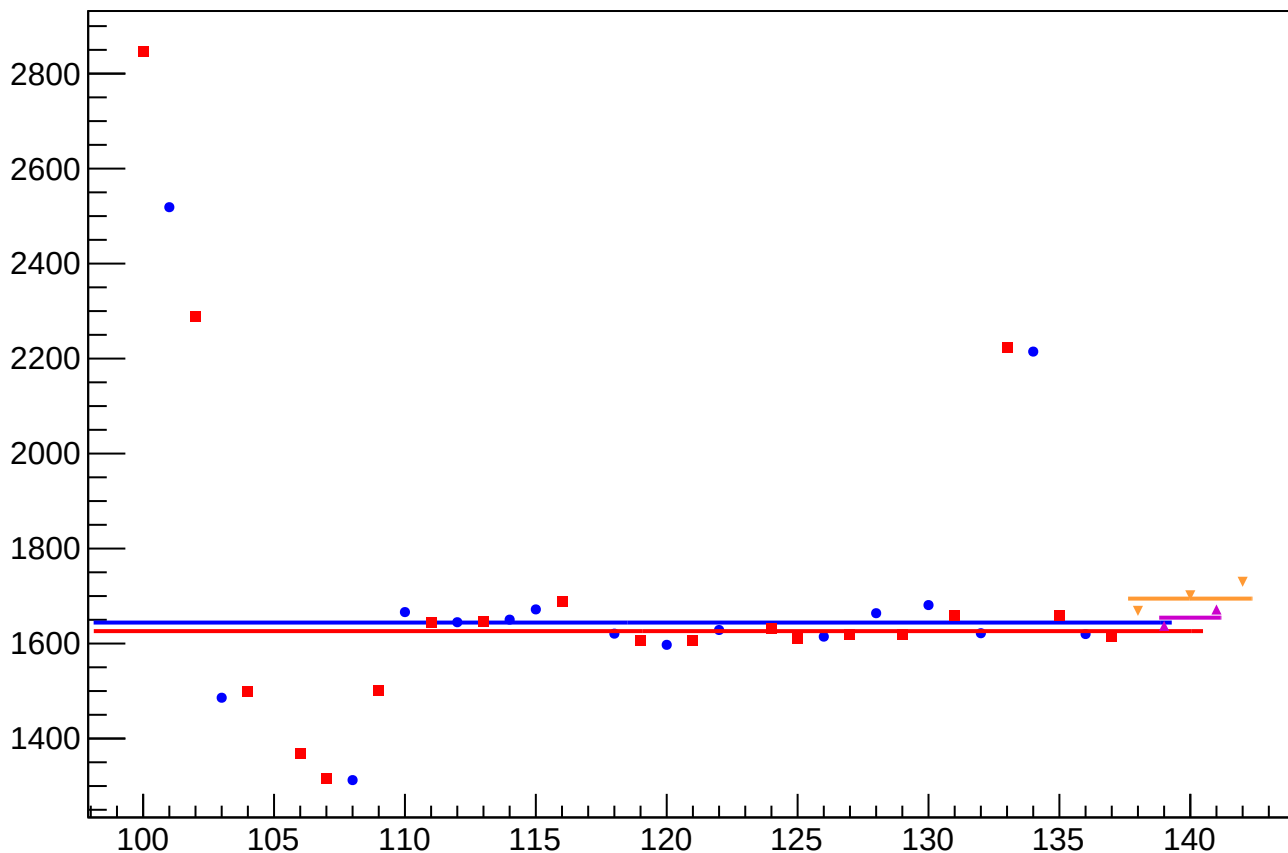
Right: 2919.429 $\pm$ 432.792 χ^2 /NDF: 29.3/34

In: 3666.897 $\pm$ 553.712 χ^2 /NDF: 11.2/17

Out: 2020.449 $\pm$ 540.086 χ^2 /NDF: 19.2/21

All: 2823.165 $\pm$ 386.626 χ^2 /NDF: 34.9/39

eigen_dit_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1644.198 $\pm$ 0.436 χ^2 /NDF: 274818.1/15

Left Out: 1694.623 $\pm$ 0.834 χ^2 /NDF: 770.7/2

Right Out: 1626.174 $\pm$ 0.429 χ^2 /NDF: 237638.8/18

Left In: 1654.482 $\pm$ 0.889 χ^2 /NDF: 374.9/1

Left: 1675.833 $\pm$ 0.608 χ^2 /NDF: 2229.7/4

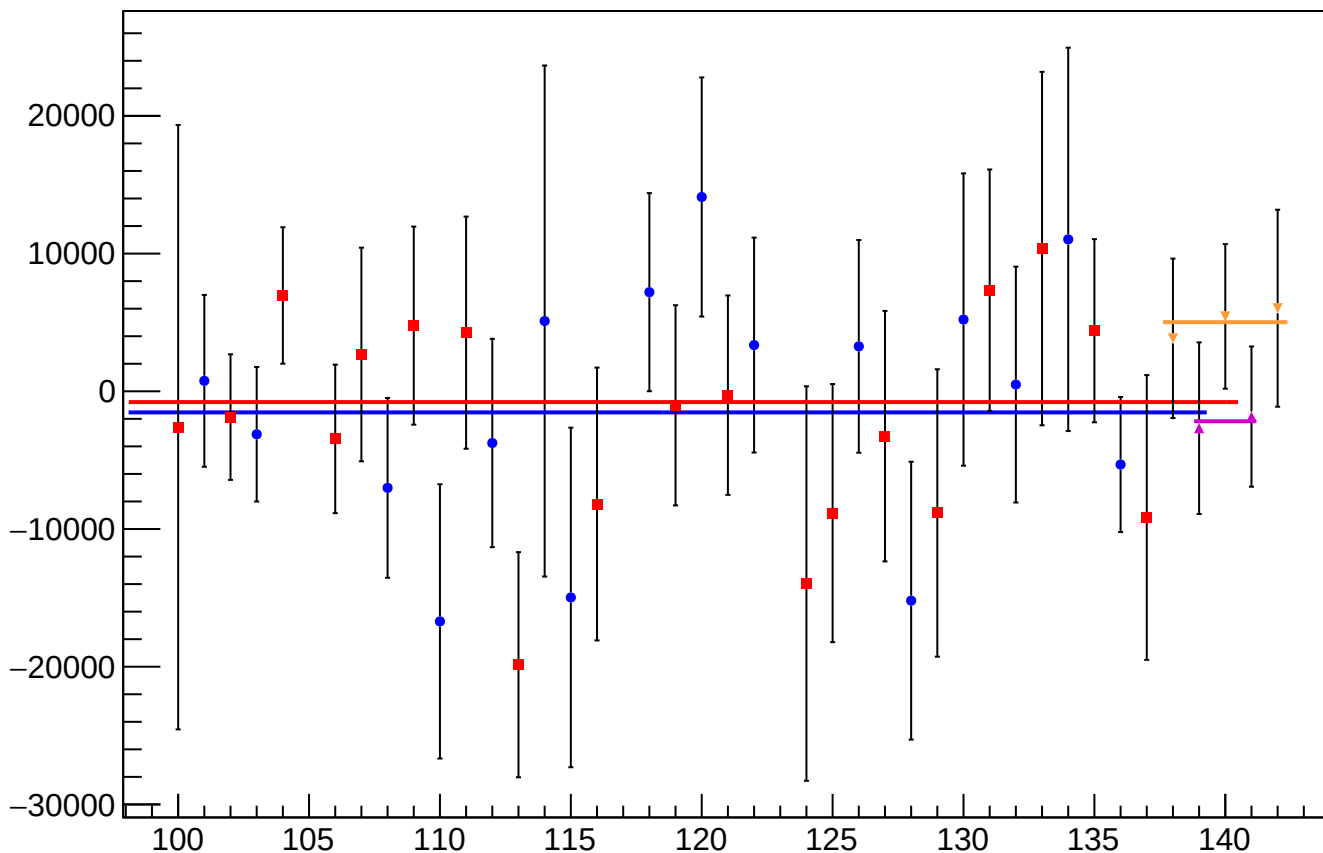
Right: 1635.042 $\pm$ 0.306 χ^2 /NDF: 513324.5/34

In: 1646.192 $\pm$ 0.392 χ^2 /NDF: 275300.8/17

Out: 1640.503 $\pm$ 0.382 χ^2 /NDF: 243734.0/21

All: 1643.275 $\pm$ 0.273 χ^2 /NDF: 519143.1/39

asym_usr_atr2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1532.095 $\pm$ 1913.796 χ^2 /NDF: 13.9/15

Left Out: 5020.116 $\pm$ 3416.705 χ^2 /NDF:0.1/2

Right Out: -784.236 $\pm$ 1748.563 χ^2 /NDF: 15.0/18

Left In: -2174.203 $\pm$ 3942.652 χ^2 /NDF:0.0/1

Left: 1934.496 $\pm$ 2582.051 χ^2 /NDF: 2.0/4

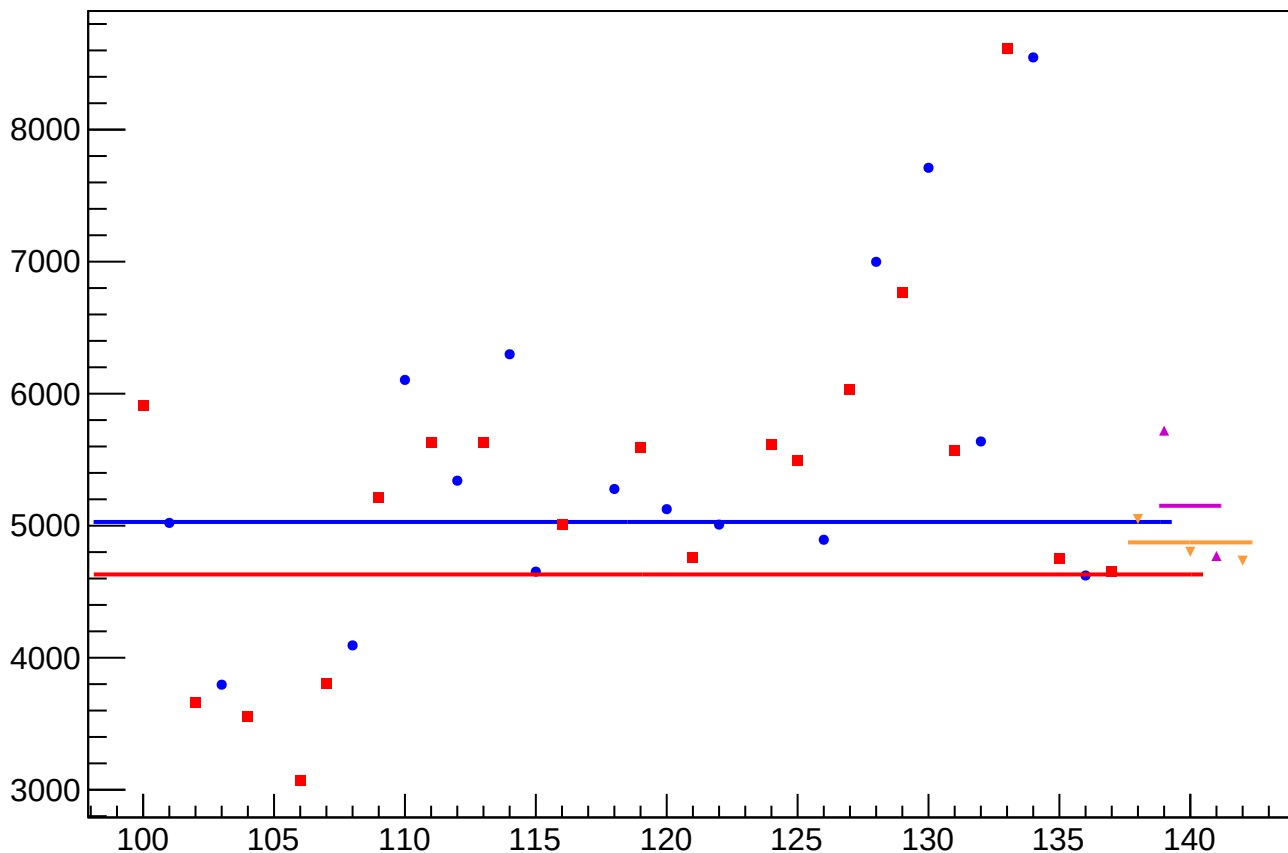
Right: -1124.493 $\pm$ 1290.891 χ^2 /NDF: 29.0/34

In: -1654.539 $\pm$ 1721.682 χ^2 /NDF:13.9/17

Out: 420.450 $\pm$ 1556.566 χ^2 /NDF:17.4/21

All: -512.798 $\pm$ 1154.632 χ^2 /NDF: 32.1/39

asym_usr_atr2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 5028.443+/-1.353 χ^2/NDF : 565463.1/15

Left Out: 4873.485+/-2.416 χ^2/NDF : 2989.4/2

Right Out: 4630.895+/-1.236 χ^2/NDF : 863509.0/18

Left In: 5151.019+/-2.788 χ^2/NDF : 27853.4/1

Left: 4992.519+/-1.826 χ^2/NDF : 36502.5/4

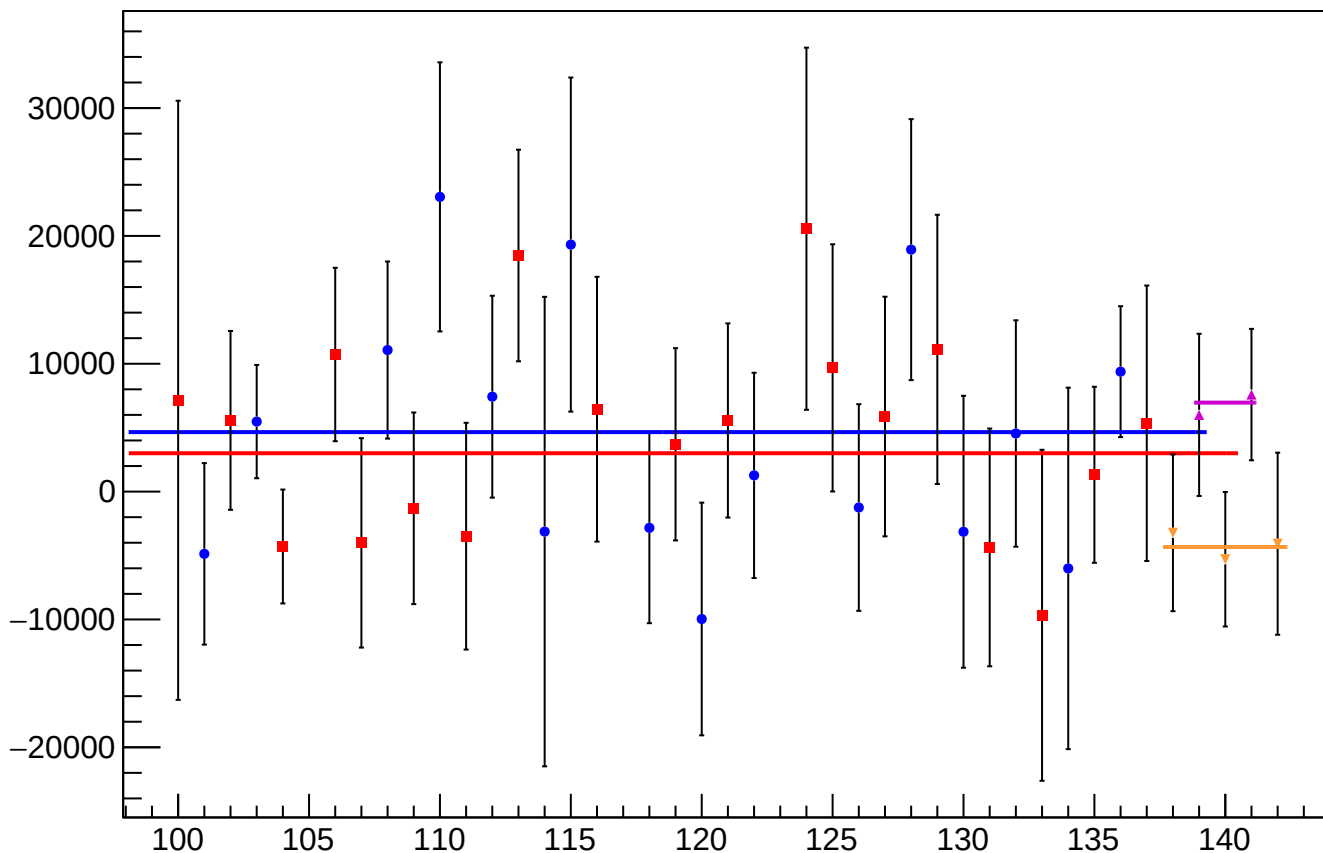
Right: 4811.769+/-0.913 χ^2/NDF : 1476008.6/34

In: 5051.817+/-1.217 χ^2/NDF : 594881.0/17

Out: 4681.244+/-1.101 χ^2/NDF : 874488.2/21

All: 4847.913+/-0.816 χ^2/NDF : 1520352.0/39

asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 4653.137+/-1958.496 χ^2/NDF : 15.5/15

Left Out: -4333.593+/-3482.593 χ^2/NDF : 0.1/2

Right Out: 3000.980+/-1882.821 χ^2/NDF : 13.9/18

Left In: 6960.212+/-3992.757 χ^2/NDF : 0.0/1

Left: 546.123+/-2624.521 χ^2/NDF : 4.6/4

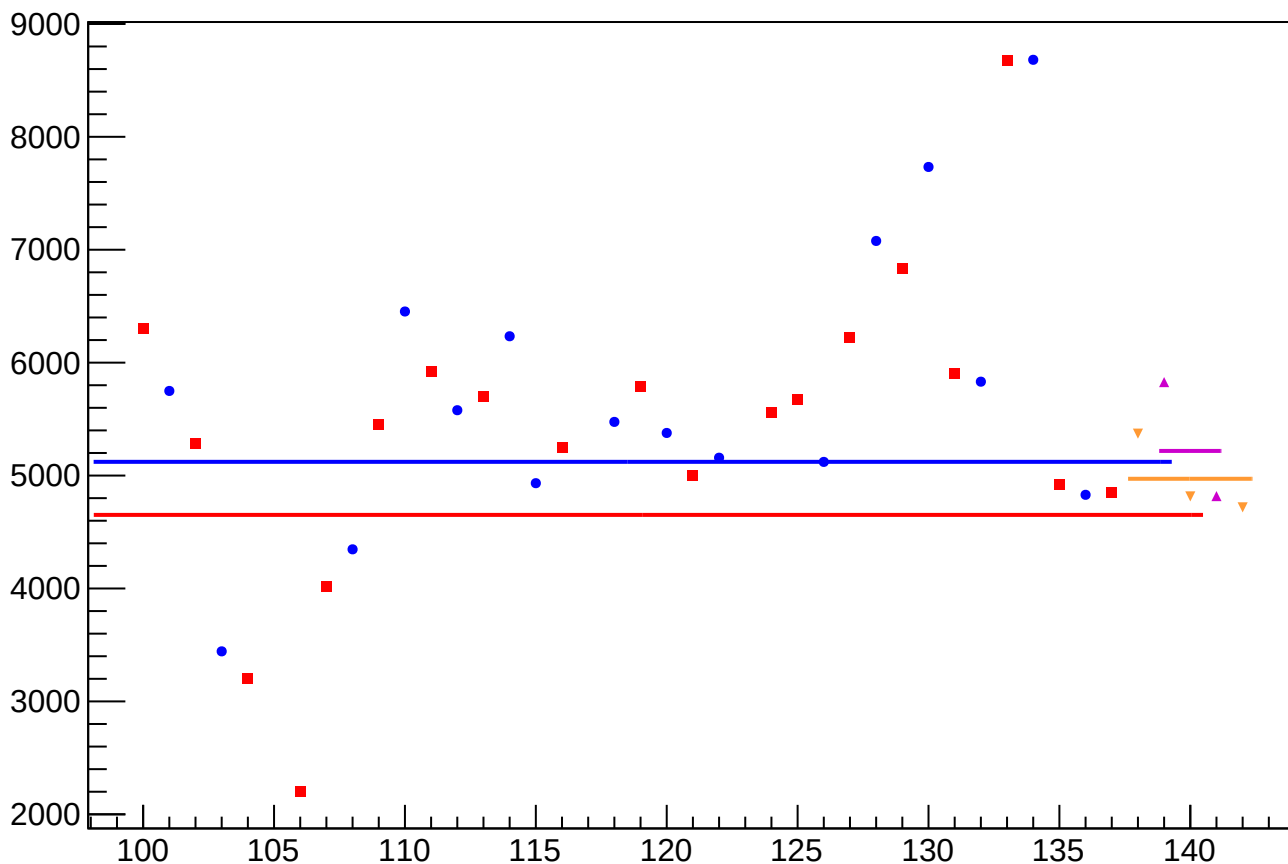
Right: 3794.523+/-1357.320 χ^2/NDF : 29.8/34

In: 5100.570+/-1758.354 χ^2/NDF : 15.8/17

Out: 1342.051+/-1656.263 χ^2/NDF : 17.4/21

All: 3109.037+/-1205.631 χ^2/NDF : 35.6/39

asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 5121.644+/-1.385 χ^2/NDF : 720370.1/15

Left Out: 4971.583+/-2.463 χ^2/NDF : 12781.6/2

Right Out: 4651.727+/-1.280 χ^2/NDF : 1344868.0/18

Left In: 5218.189+/-2.823 χ^2/NDF : 30588.9/1

Left: 5078.134+/-1.856 χ^2/NDF : 47703.4/4

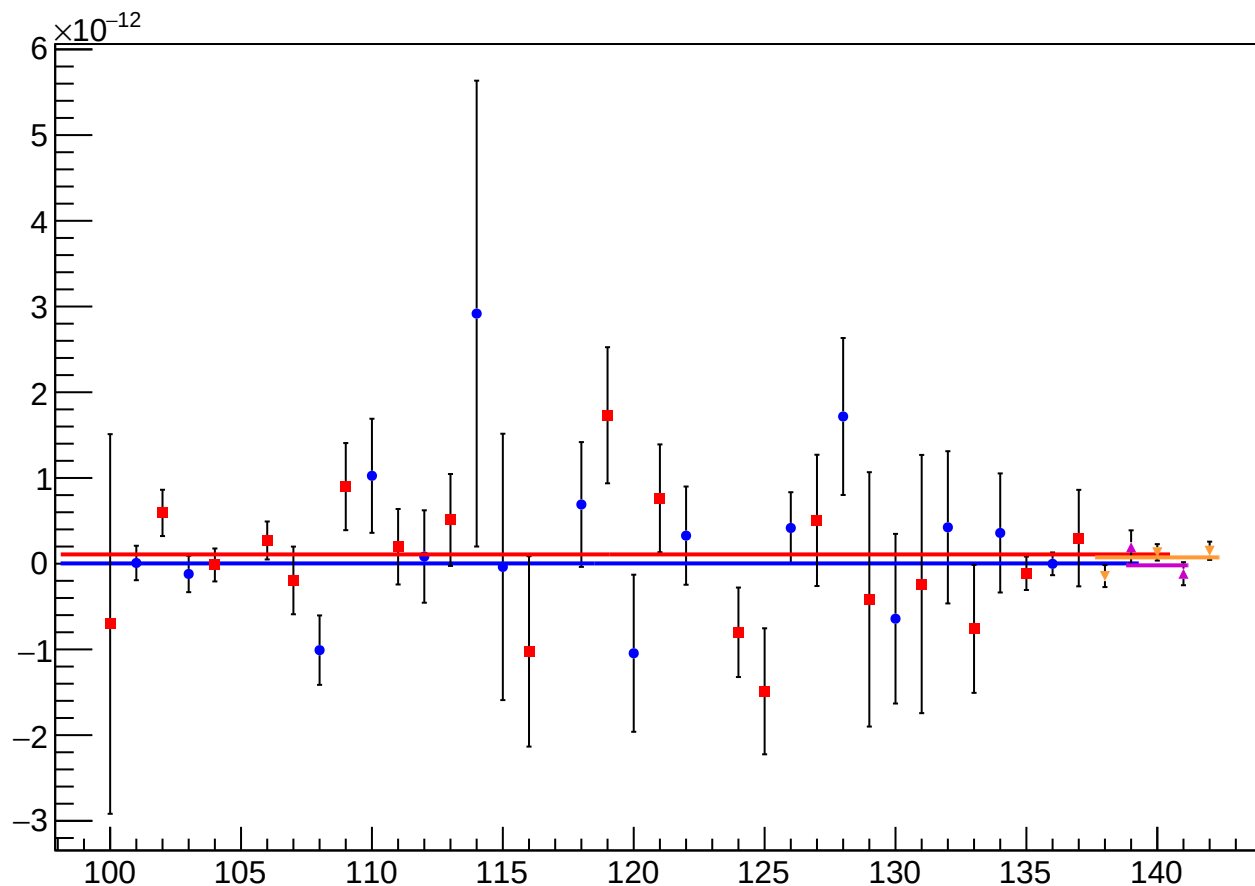
Right: 4868.287+/-0.940 χ^2/NDF : 2127316.1/34

In: 5140.367+/-1.243 χ^2/NDF : 751901.5/17

Out: 4719.792+/-1.136 χ^2/NDF : 1370930.2/21

All: 4911.141+/-0.839 χ^2/NDF : 2185194.5/39

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 25.1/18

Left In: -0.000+/-0.000 χ^2/NDF : 1.7/1

Left: 0.000+/-0.000 χ^2/NDF : 6.0/4

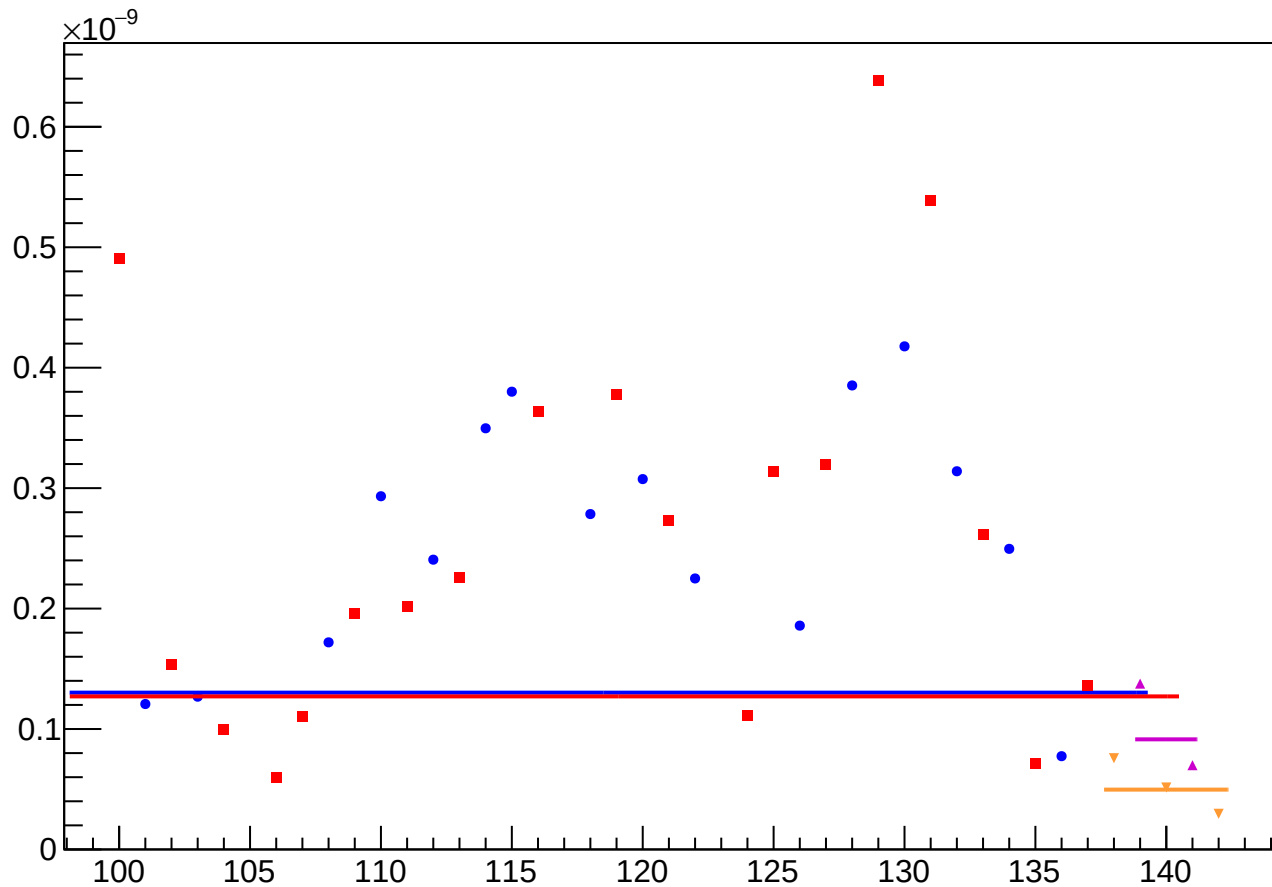
Right: 0.000+/-0.000 χ^2/NDF : 43.9/34

In: -0.000+/-0.000 χ^2/NDF : 19.7/17

Out: 0.000+/-0.000 χ^2/NDF : 29.0/21

All: 0.000+/-0.000 χ^2/NDF : 49.9/39

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1329229.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :154491.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1734331.2/18

Left In: 0.000+/-0.000 χ^2/NDF :160917.7/1

Left: 0.000+/-0.000 χ^2/NDF : 530297.4/4

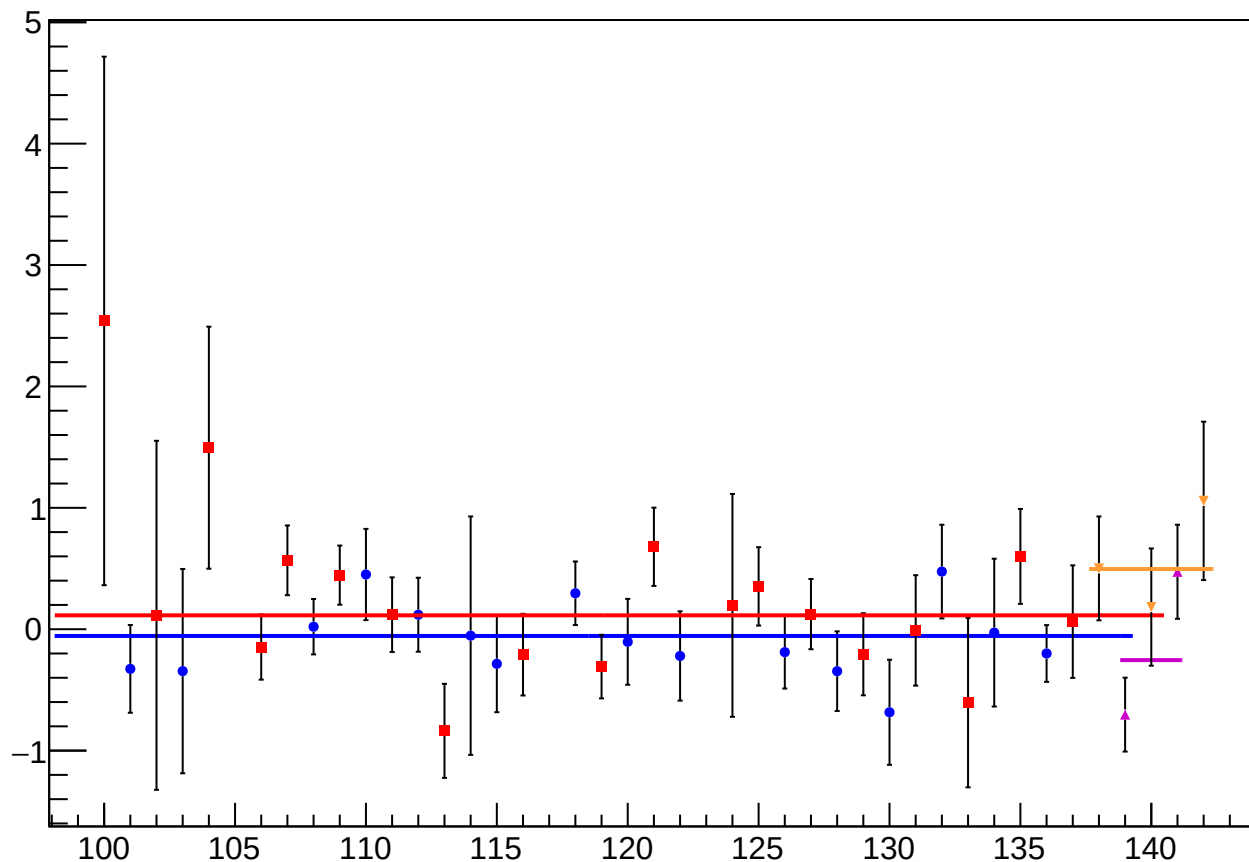
Right: 0.000+/-0.000 χ^2/NDF : 3064818.5/34

In: 0.000+/-0.000 χ^2/NDF :1641878.7/17

Out: 0.000+/-0.000 χ^2/NDF :2895843.1/21

All: 0.000+/-0.000 χ^2/NDF : 4993038.0/39

asym_usr_atr2_avg_dit_vs_Slug, Sign Corrected



Right In: -0.055 ± 0.085 $\chi^2/\text{NDF}: 10.7/15$

Left Out: 0.496 ± 0.287 $\chi^2/\text{NDF}: 1.2/2$

Right Out: 0.114 ± 0.083 $\chi^2/\text{NDF}: 25.2/18$

Left In: -0.255 ± 0.239 $\chi^2/\text{NDF}: 5.7/1$

Left: 0.053 ± 0.184 $\chi^2/\text{NDF}: 10.9/4$

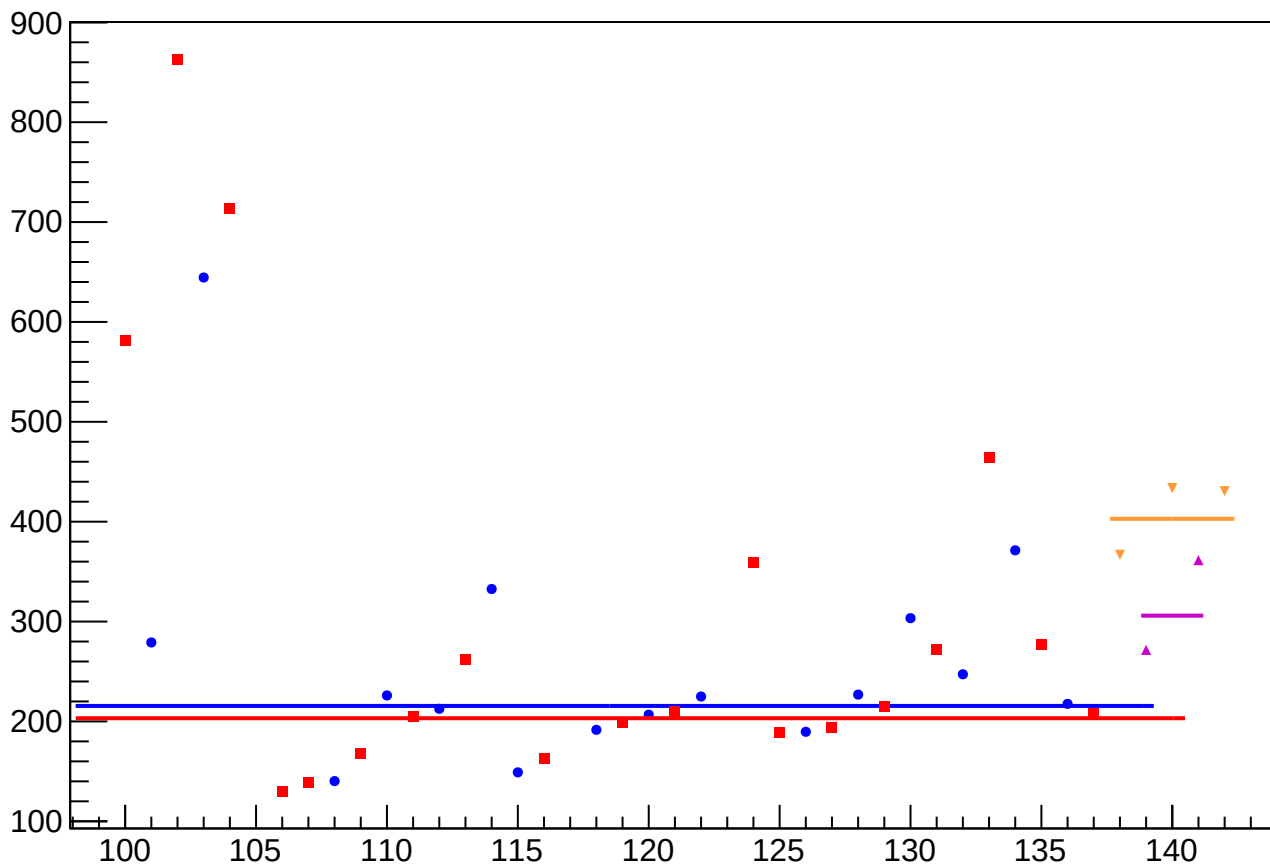
Right: 0.032 ± 0.060 $\chi^2/\text{NDF}: 37.9/34$

In: -0.078 ± 0.080 $\chi^2/\text{NDF}: 17.0/17$

Out: 0.144 ± 0.080 $\chi^2/\text{NDF}: 28.0/21$

All: 0.034 ± 0.057 $\chi^2/\text{NDF}: 48.8/39$

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 215.519+/-0.060 χ^2/NDF : 1148727.3/15

Left Out: 402.899+/-0.203 χ^2/NDF : 25857.7/2

Right Out: 203.207+/-0.059 χ^2/NDF : 1835552.6/18

Left In: 305.902+/-0.169 χ^2/NDF : 66549.7/1

Left: 345.622+/-0.130 χ^2/NDF : 226934.1/4

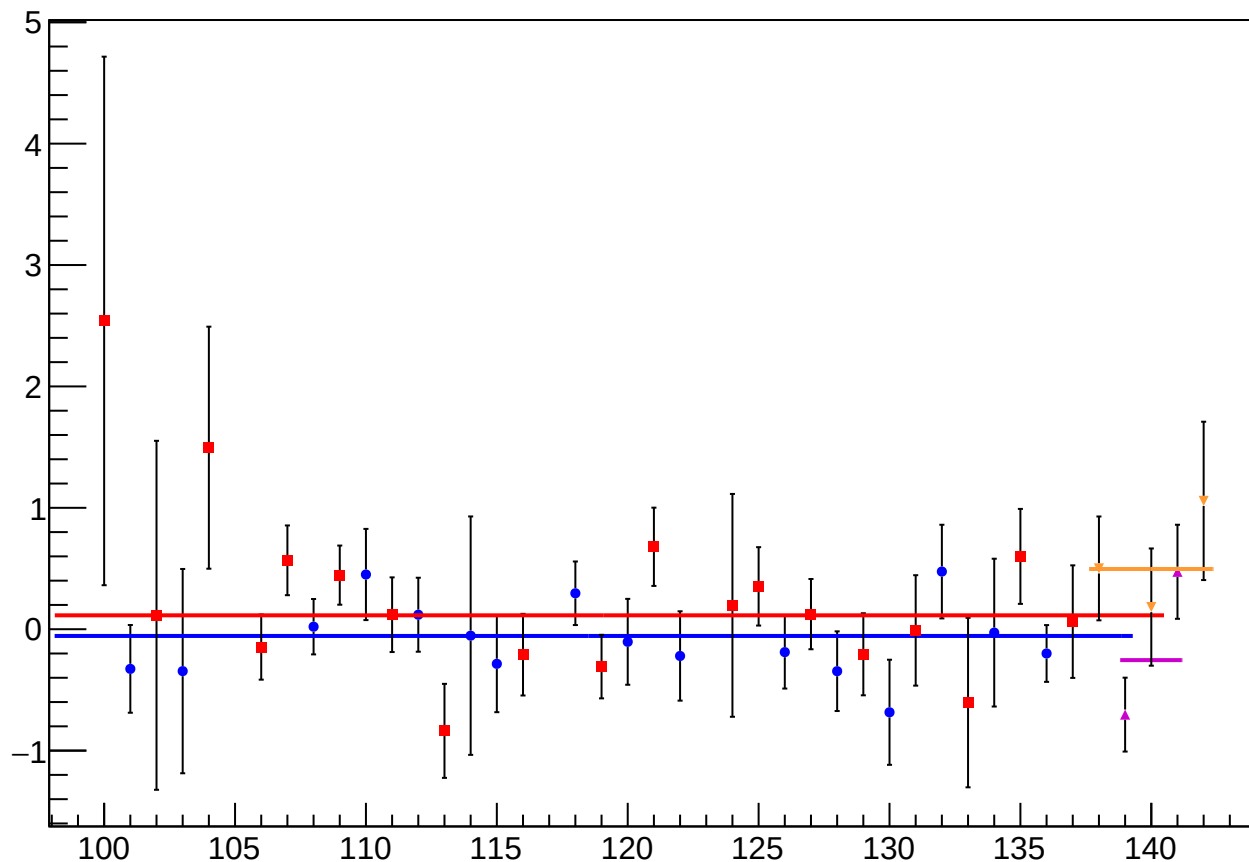
Right: 209.199+/-0.042 χ^2/NDF : 3005585.2/34

In: 225.743+/-0.057 χ^2/NDF : 1468264.0/17

Out: 218.654+/-0.057 χ^2/NDF : 2752309.0/21

All: 222.174+/-0.040 χ^2/NDF : 4228382.1/39

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.055 ± 0.085 χ^2/NDF : 10.7/15

Left Out: 0.496 ± 0.287 χ^2/NDF : 1.2/2

Right Out: 0.114 ± 0.083 χ^2/NDF : 25.2/18

Left In: -0.255 ± 0.239 χ^2/NDF : 5.7/1

Left: 0.053 ± 0.184 χ^2/NDF : 10.9/4

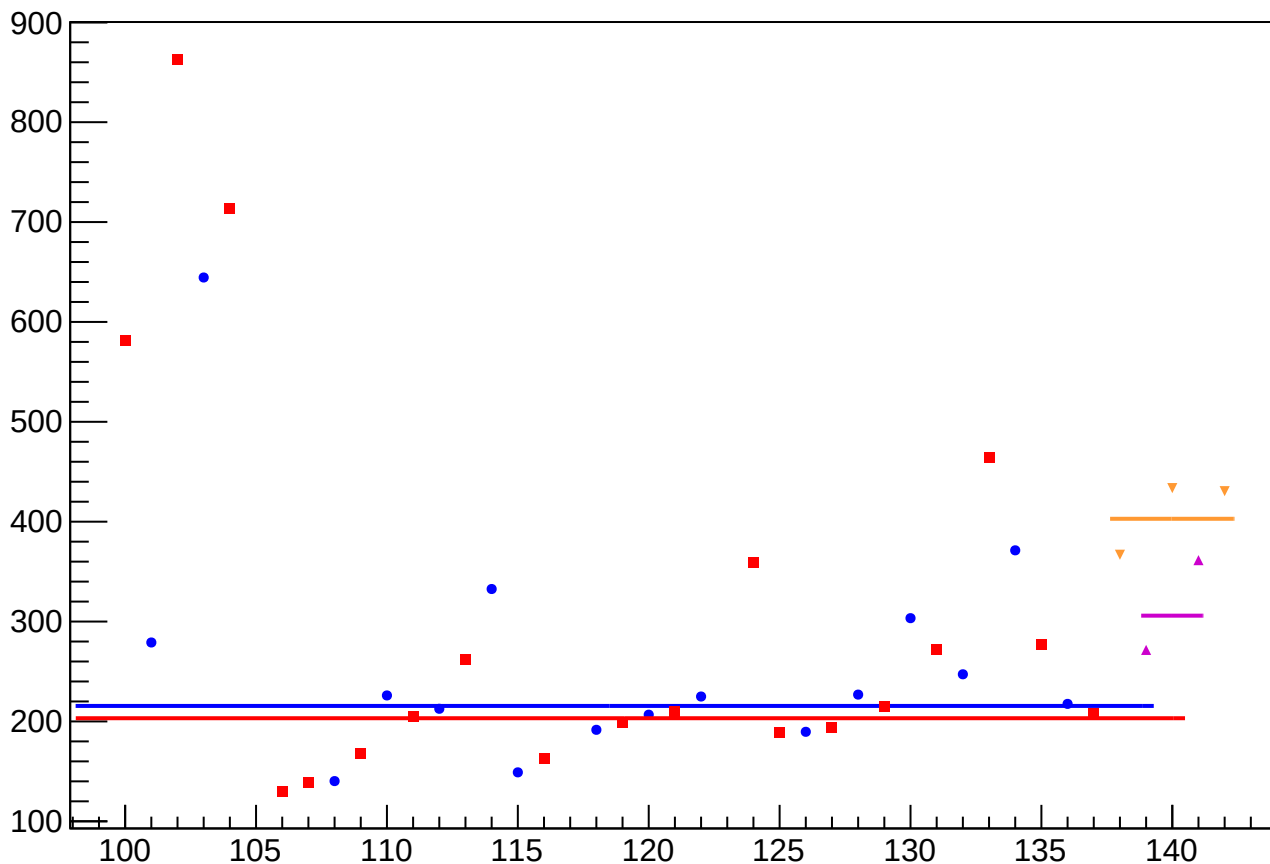
Right: 0.032 ± 0.060 χ^2/NDF : 37.9/34

In: -0.078 ± 0.080 χ^2/NDF : 17.0/17

Out: 0.144 ± 0.080 χ^2/NDF : 28.0/21

All: 0.034 ± 0.057 χ^2/NDF : 48.8/39

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 215.519 $\pm$ 0.060 χ^2/NDF : 1148727.3/15

Left Out: 402.899 $\pm$ 0.203 χ^2/NDF : 25857.7/2

Right Out: 203.207 $\pm$ 0.059 χ^2/NDF : 1835552.6/18

Left In: 305.902 $\pm$ 0.169 χ^2/NDF : 66549.7/1

Left: 345.622 $\pm$ 0.130 χ^2/NDF : 226934.1/4

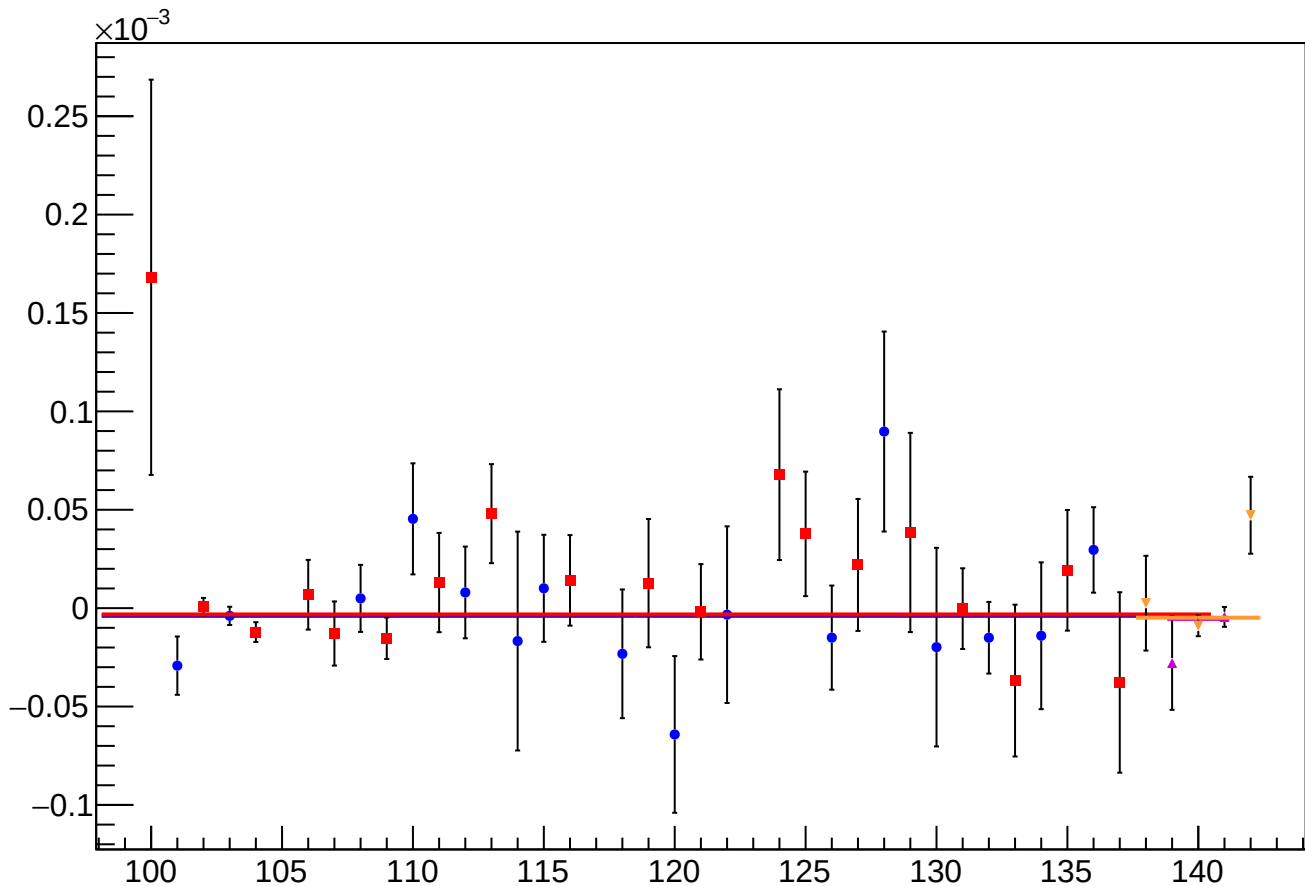
Right: 209.199 $\pm$ 0.042 χ^2/NDF : 3005585.2/34

In: 225.743 $\pm$ 0.057 χ^2/NDF : 1468264.0/17

Out: 218.654 $\pm$ 0.057 χ^2/NDF : 2752309.0/21

All: 222.174 $\pm$ 0.040 χ^2/NDF : 4228382.1/39

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 7.8/2

Right Out: -0.000+/-0.000 χ^2/NDF : 21.6/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.9/1

Left: -0.000+/-0.000 χ^2/NDF : 8.7/4

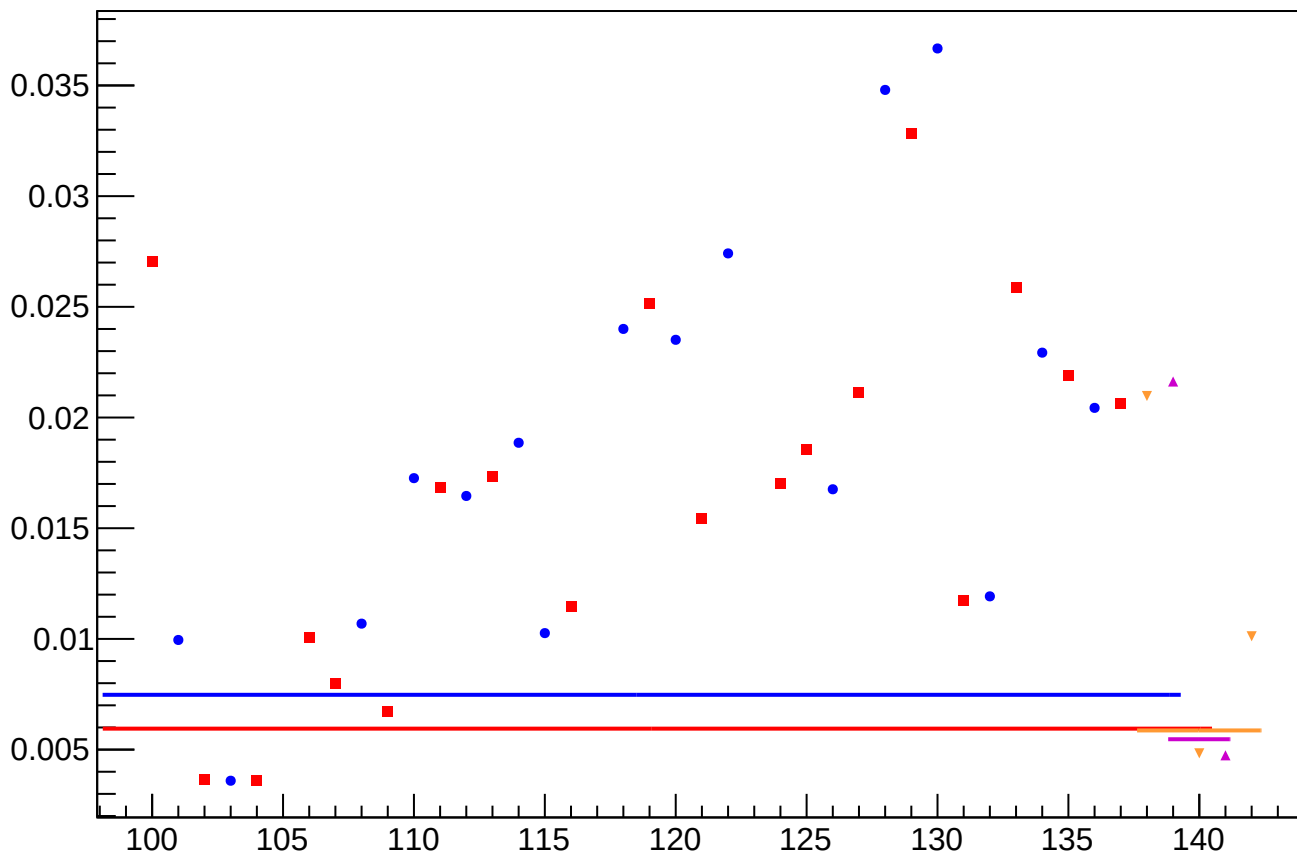
Right: -0.000+/-0.000 χ^2/NDF : 37.6/34

In: -0.000+/-0.000 χ^2/NDF : 16.9/17

Out: -0.000+/-0.000 χ^2/NDF : 29.5/21

All: -0.000+/-0.000 χ^2/NDF : 46.5/39

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6076199.5/15

Left Out: 0.006+/-0.000 χ^2/NDF : 958968.2/2

Right Out: 0.006+/-0.000 χ^2/NDF : 5934015.2/18

Left In: 0.005+/-0.000 χ^2/NDF : 963410.2/1

Left: 0.006+/-0.000 χ^2/NDF : 1928808.2/4

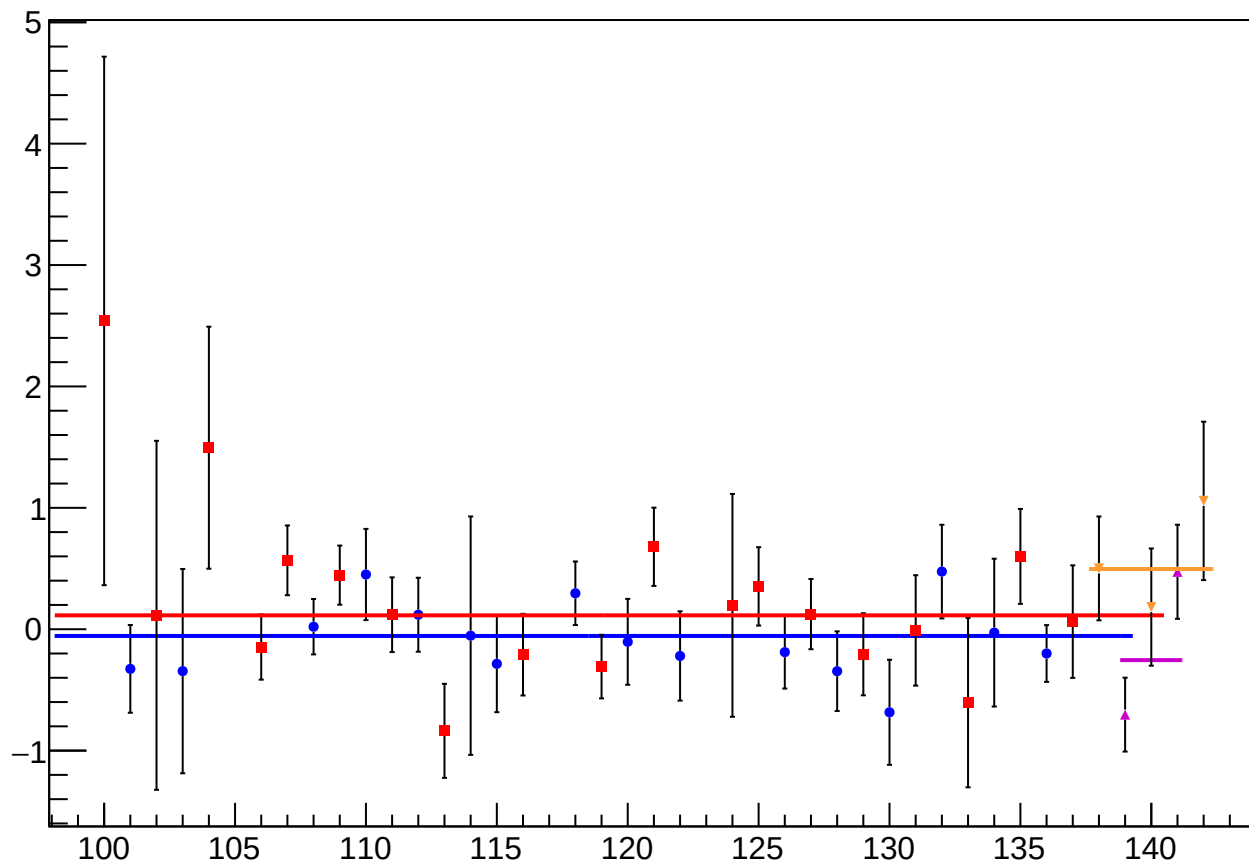
Right: 0.007+/-0.000 χ^2/NDF : 12215563.8/34

In: 0.007+/-0.000 χ^2/NDF : 7247566.5/17

Out: 0.006+/-0.000 χ^2/NDF : 6893379.7/21

All: 0.006+/-0.000 χ^2/NDF : 14225595.9/39

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.055 ± 0.085 χ^2/NDF : 10.7/15

Left Out: 0.496 ± 0.287 χ^2/NDF : 1.2/2

Right Out: 0.114 ± 0.083 χ^2/NDF : 25.2/18

Left In: -0.255 ± 0.239 χ^2/NDF : 5.7/1

Left: 0.053 ± 0.184 χ^2/NDF : 10.9/4

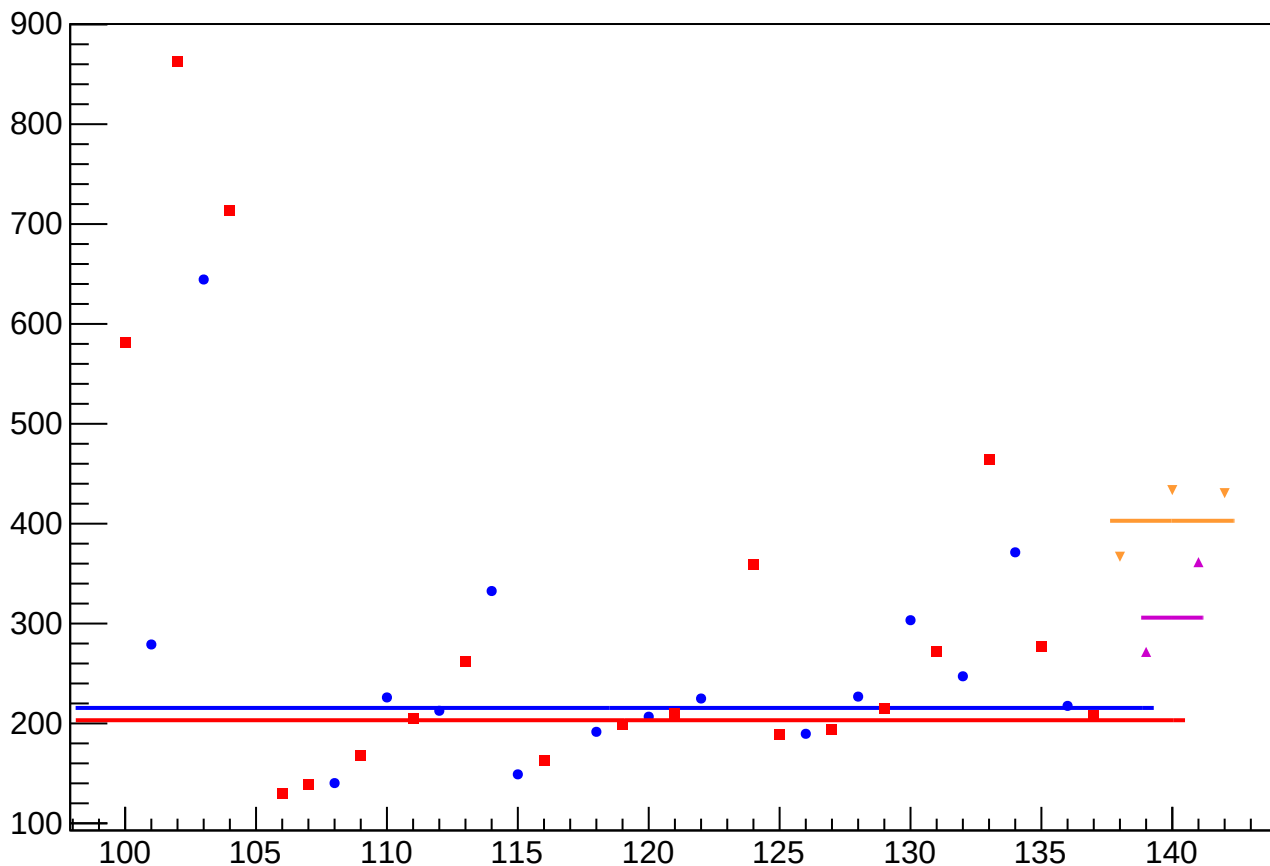
Right: 0.032 ± 0.060 χ^2/NDF : 37.9/34

In: -0.078 ± 0.080 χ^2/NDF : 17.0/17

Out: 0.144 ± 0.080 χ^2/NDF : 28.0/21

All: 0.034 ± 0.057 χ^2/NDF : 48.8/39

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 215.518 $\pm$ 0.060 χ^2 /NDF: 1148700.9/15

Left Out: 402.902 $\pm$ 0.203 χ^2 /NDF: 25853.5/2

Right Out: 203.205 $\pm$ 0.059 χ^2 /NDF: 1835535.5/18

Left In: 305.906 $\pm$ 0.169 χ^2 /NDF: 66540.8/1

Left: 345.625 $\pm$ 0.130 χ^2 /NDF: 226917.5/4

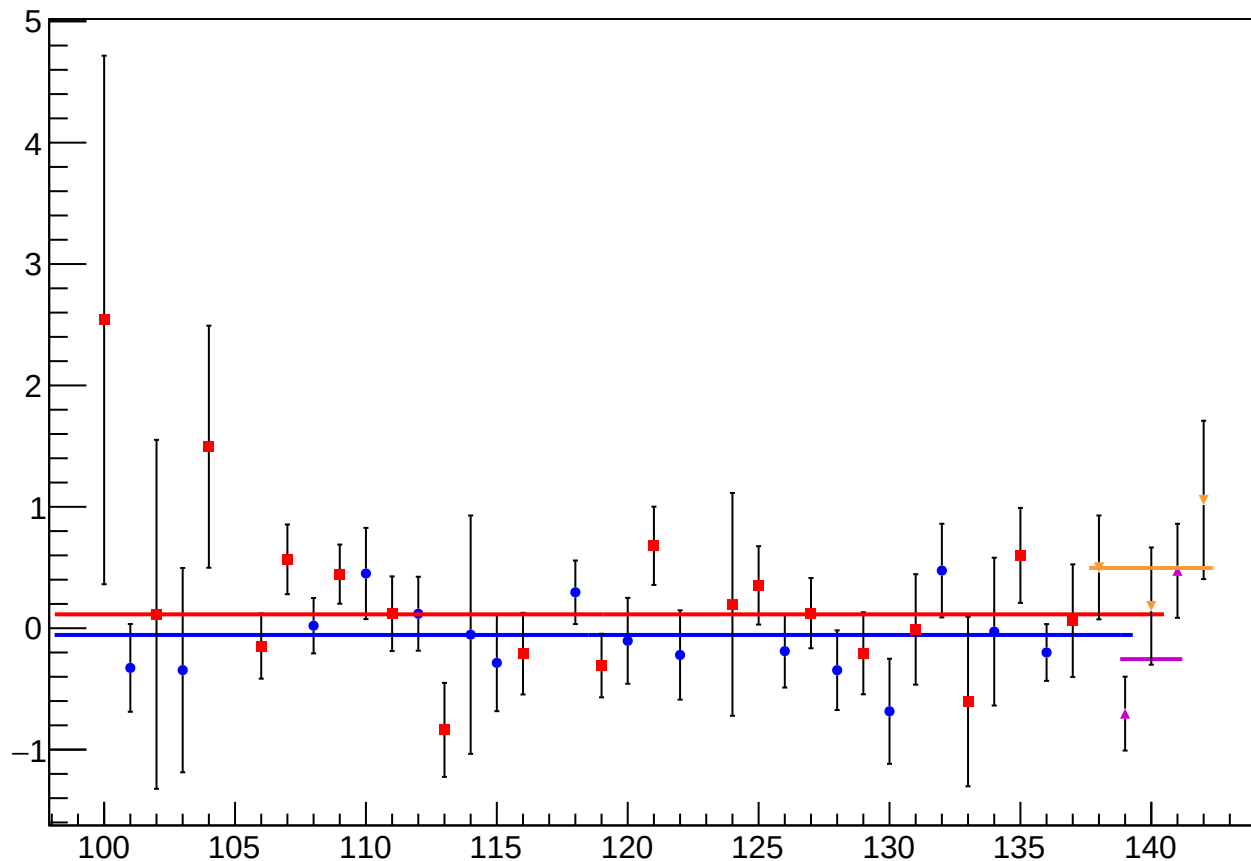
Right: 209.197 $\pm$ 0.042 χ^2 /NDF: 3005542.9/34

In: 225.742 $\pm$ 0.057 χ^2 /NDF: 1468251.9/17

Out: 218.653 $\pm$ 0.057 χ^2 /NDF: 2752319.5/21

All: 222.173 $\pm$ 0.040 χ^2 /NDF: 4228381.8/39

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.055 ± 0.085 χ^2/NDF : 10.7/15

Left Out: 0.496 ± 0.287 χ^2/NDF : 1.2/2

Right Out: 0.114 ± 0.083 χ^2/NDF : 25.2/18

Left In: -0.255 ± 0.239 χ^2/NDF : 5.7/1

Left: 0.053 ± 0.184 χ^2/NDF : 10.9/4

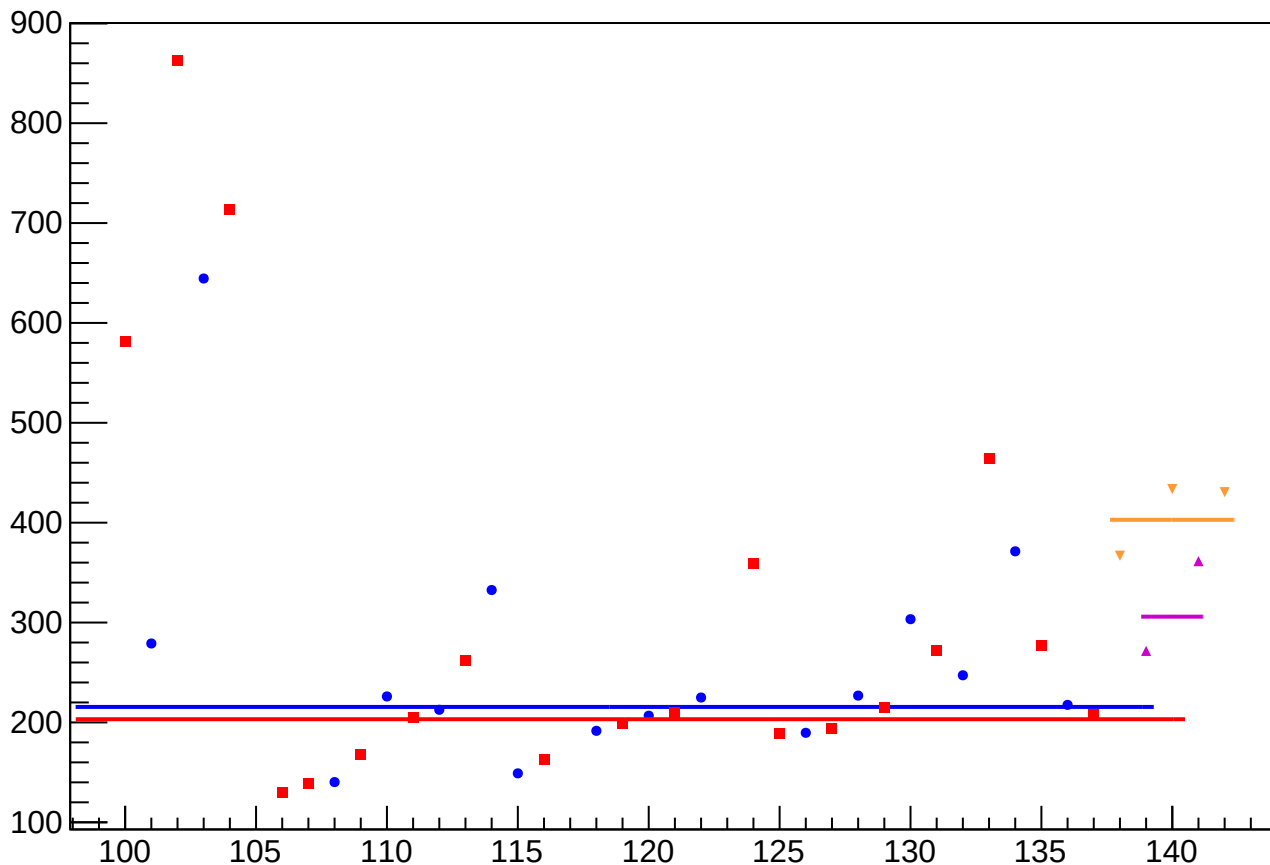
Right: 0.032 ± 0.060 χ^2/NDF : 37.9/34

In: -0.078 ± 0.080 χ^2/NDF : 17.0/17

Out: 0.144 ± 0.080 χ^2/NDF : 28.0/21

All: 0.034 ± 0.057 χ^2/NDF : 48.8/39

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 215.518 $\pm$ 0.060 χ^2 /NDF: 1148700.9/15

Left Out: 402.902 $\pm$ 0.203 χ^2 /NDF:25853.5/2

Right Out: 203.205 $\pm$ 0.059 χ^2 /NDF: 1835535.5/18

Left In: 305.906 $\pm$ 0.169 χ^2 /NDF:66540.8/1

Left: 345.625 $\pm$ 0.130 χ^2 /NDF: 226917.5/4

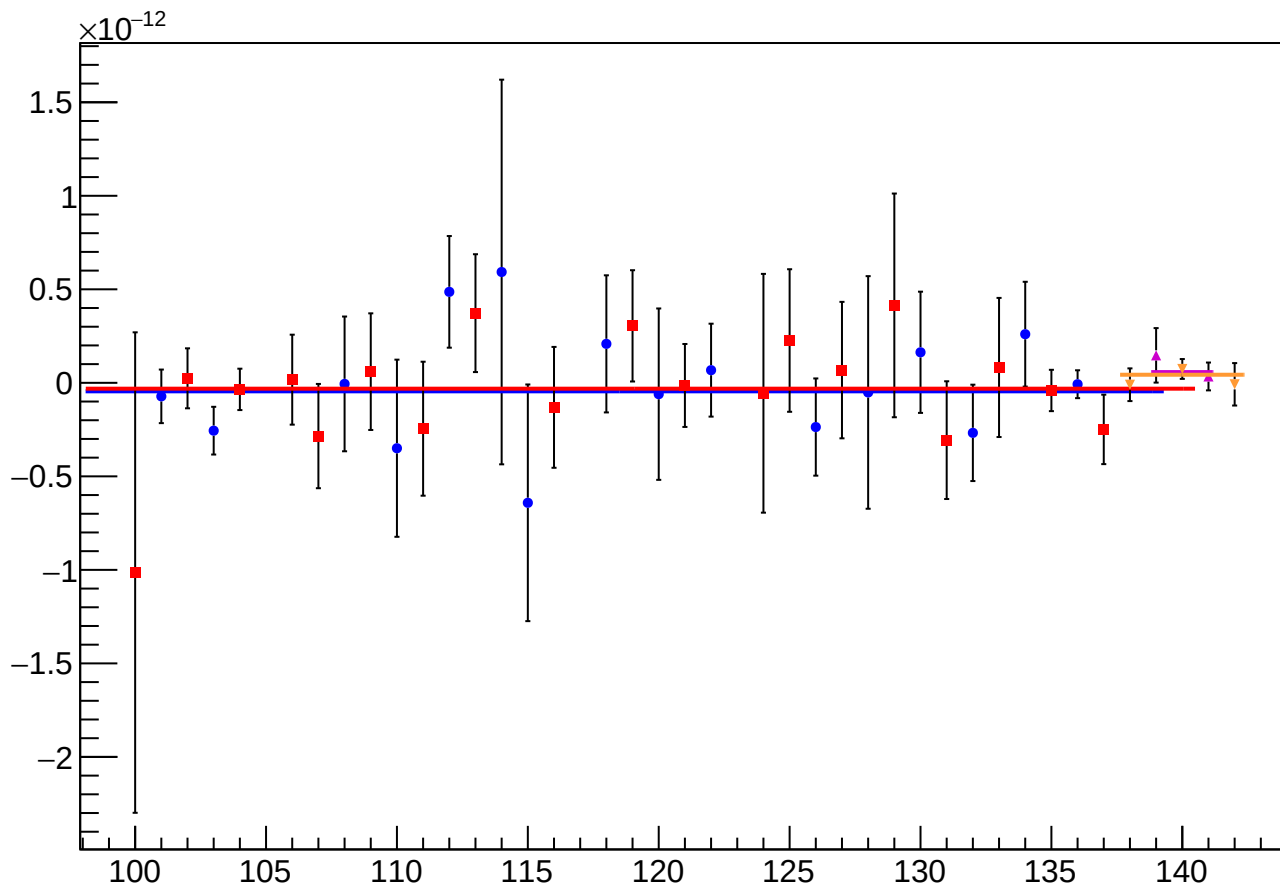
Right: 209.197 $\pm$ 0.042 χ^2 /NDF: 3005542.9/34

In: 225.742 $\pm$ 0.057 χ^2 /NDF:1468251.9/17

Out: 218.653 $\pm$ 0.057 χ^2 /NDF:2752319.5/21

All: 222.173 $\pm$ 0.040 χ^2 /NDF: 4228381.8/39

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 11.5/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.9/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 8.4/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.5/1

Left: 0.000 ± 0.000 χ^2/NDF : 1.4/4

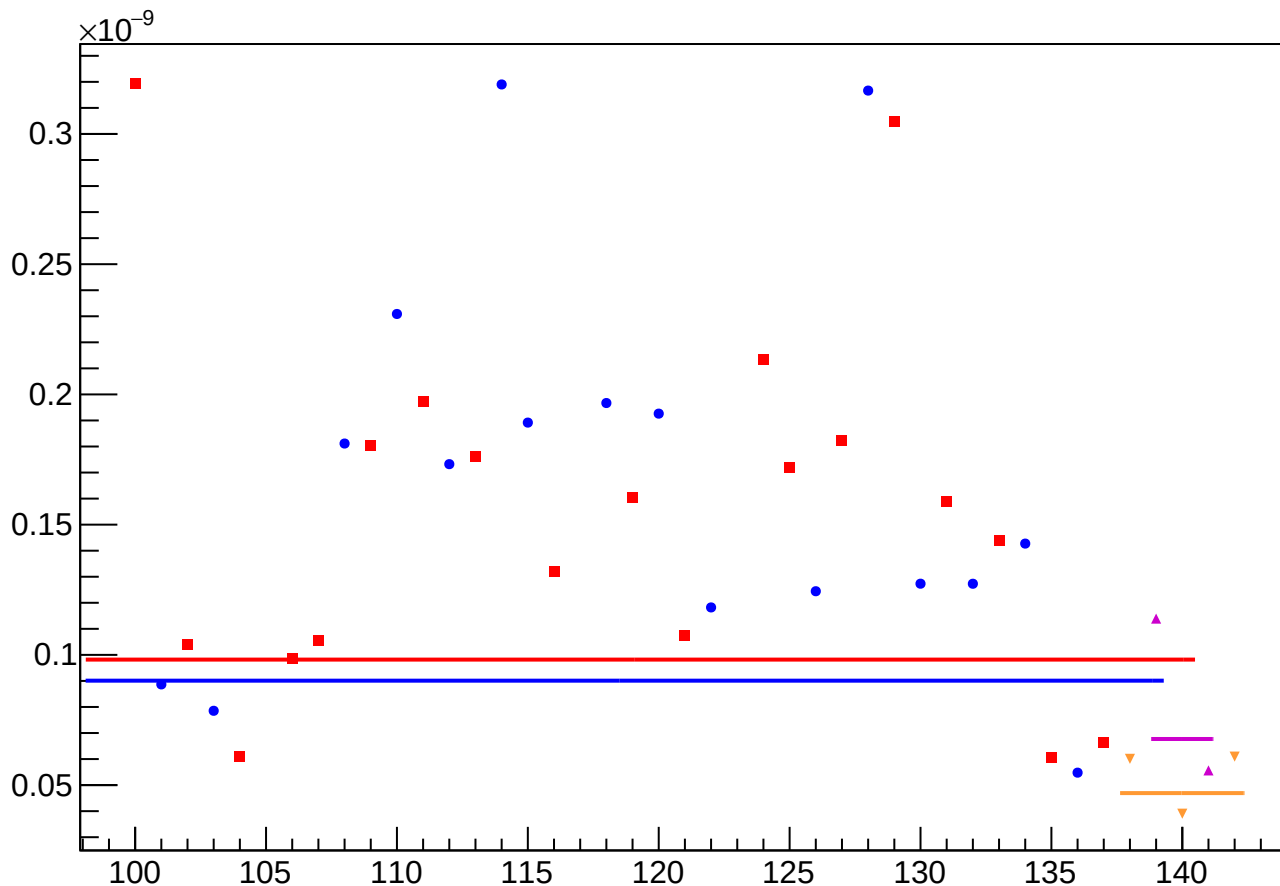
Right: -0.000 ± 0.000 χ^2/NDF : 19.9/34

In: -0.000 ± 0.000 χ^2/NDF : 13.5/17

Out: 0.000 ± 0.000 χ^2/NDF : 10.5/21

All: 0.000 ± 0.000 χ^2/NDF : 24.2/39

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 1808066.1/15

Left Out: 0.000+/-0.000

χ^2/NDF : 120203.6/2

Right Out: 0.000+/-0.000

χ^2/NDF : 1694726.3/18

Left In: 0.000+/-0.000

χ^2/NDF : 253890.2/1

Left: 0.000+/-0.000

χ^2/NDF : 514047.1/4

Right: 0.000+/-0.000

χ^2/NDF : 3527917.4/34

In: 0.000+/-0.000

χ^2/NDF : 2207500.8/17

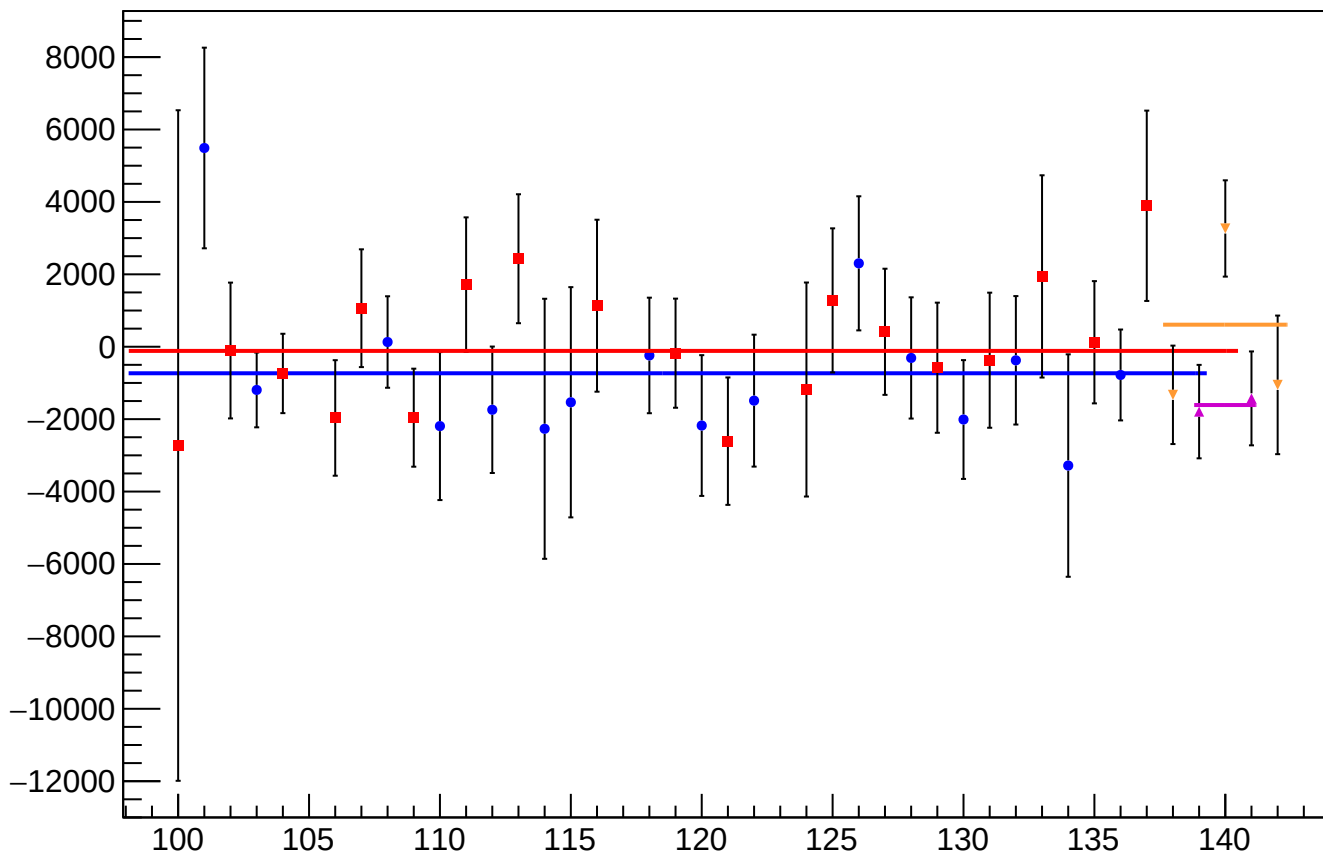
Out: 0.000+/-0.000

χ^2/NDF : 2986077.8/21

All: 0.000+/-0.000

χ^2/NDF : 5357532.1/39

reg_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -732.747+/-427.384 χ^2/NDF : 11.7/15

Left Out: 609.153+/-851.460 χ^2/NDF : 6.8/2

Right Out: -115.040+/-411.437 χ^2/NDF : 13.1/18

Left In: -1610.015+/-914.807 χ^2/NDF : 0.0/1

Left: -420.943+/-623.266 χ^2/NDF : 10.0/4

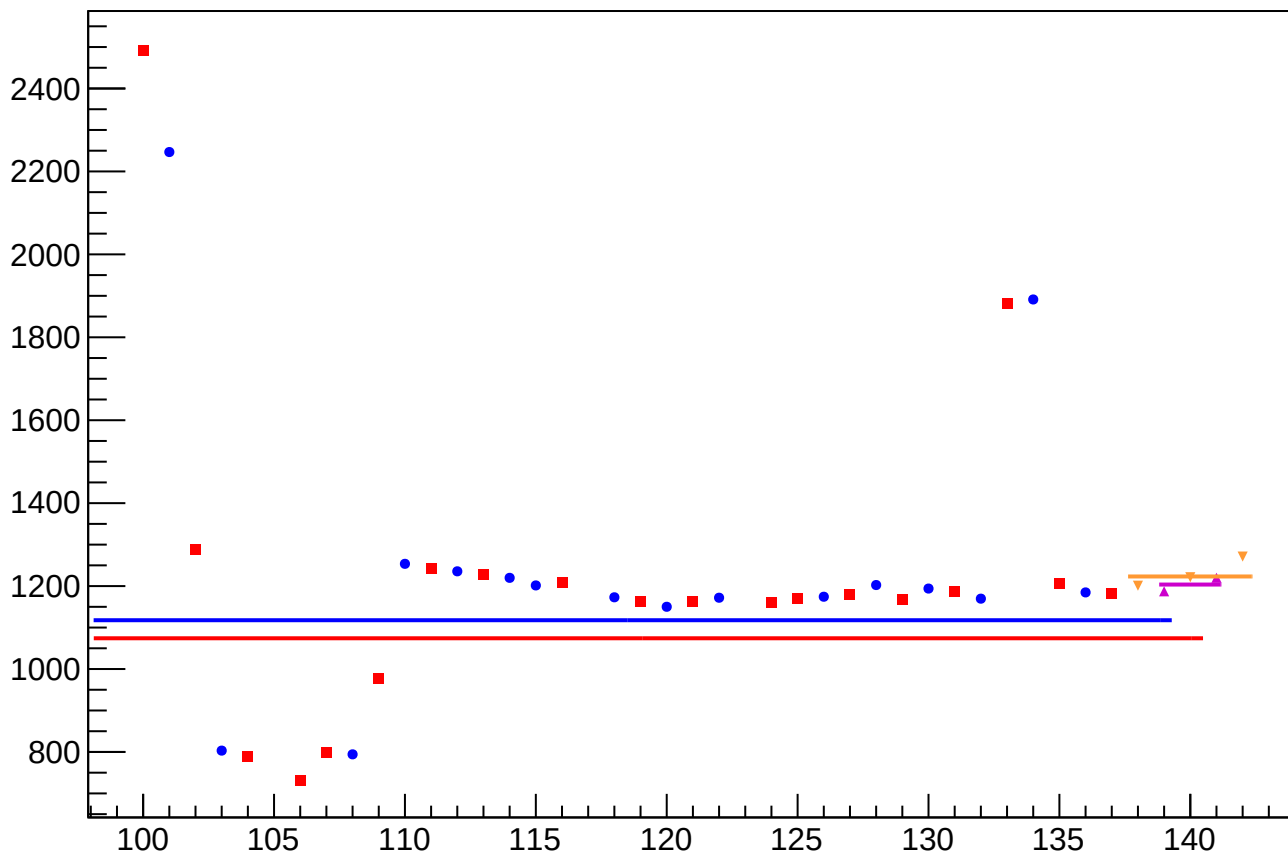
Right: -412.155+/-296.407 χ^2/NDF : 25.9/34

In: -889.917+/-387.212 χ^2/NDF : 12.5/17

Out: 22.046+/-370.454 χ^2/NDF : 20.5/21

All: -413.776+/-267.679 χ^2/NDF : 35.9/39

reg_asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 1117.684 $\pm$ 0.302 χ^2 /NDF: 819835.1/15

Left Out: 1223.190 $\pm$ 0.602 χ^2 /NDF:1797.3/2

Right Out: 1074.148 $\pm$ 0.289 χ^2 /NDF: 649508.4/18

Left In: 1203.699 $\pm$ 0.647 χ^2 /NDF:638.3/1

Left: 1214.143 $\pm$ 0.441 χ^2 /NDF: 2922.1/4

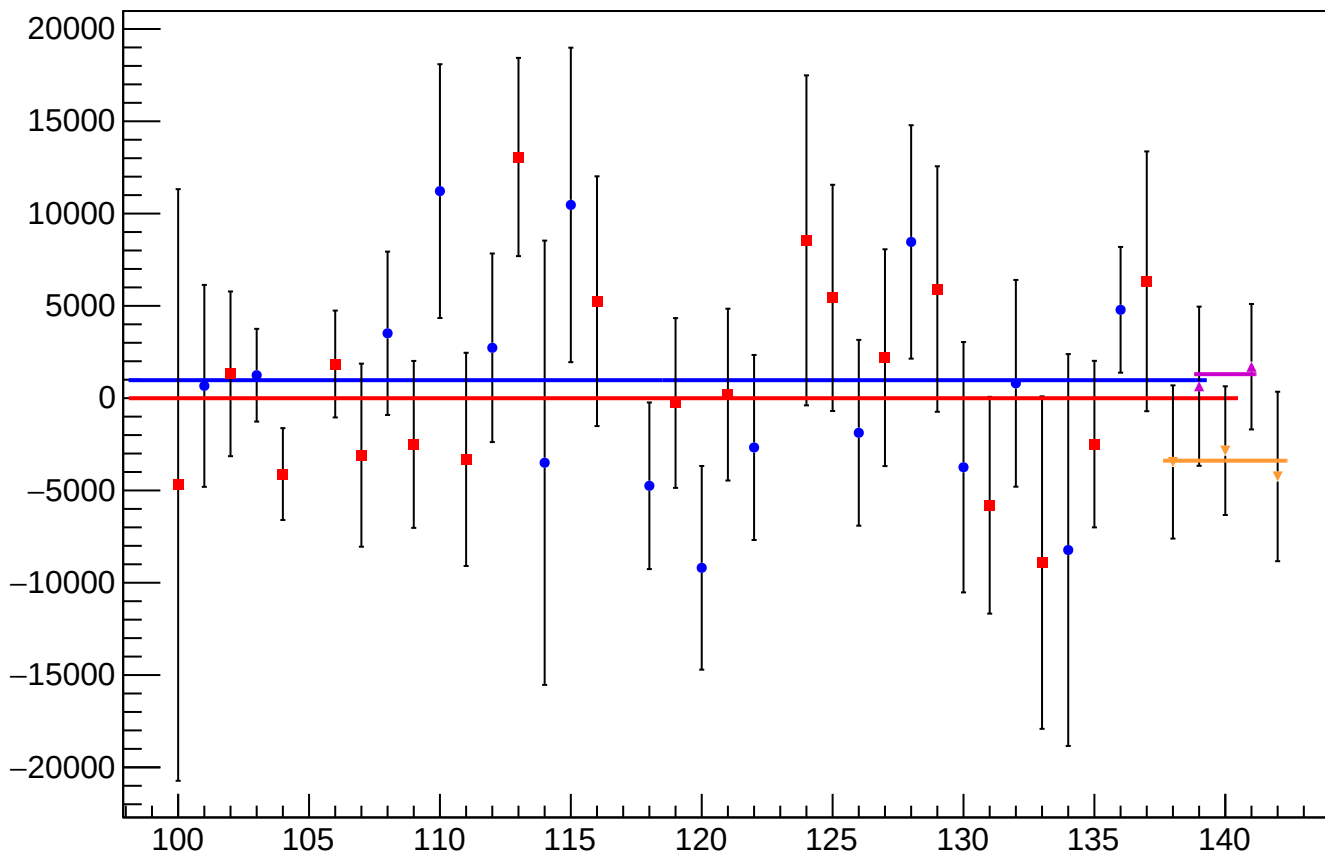
Right: 1094.908 $\pm$ 0.209 χ^2 /NDF: 1480200.6/34

In: 1133.094 $\pm$ 0.274 χ^2 /NDF:834987.3/17

Out: 1101.983 $\pm$ 0.260 χ^2 /NDF:701141.2/21

All: 1116.746 $\pm$ 0.189 χ^2 /NDF: 1542913.0/39

asym_usr_atr2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 973.755 $\pm$ 1232.754 χ^2 /NDF: 13.8/15

Left Out: -3386.836 $\pm$ 2307.676 χ^2 /NDF: 0.1/2

Right Out: -2.885 $\pm$ 1113.897 χ^2 /NDF: 16.6/18

Left In: 1299.509 $\pm$ 2668.627 χ^2 /NDF: 0.0/1

Left: -1381.804 $\pm$ 1745.547 χ^2 /NDF: 1.9/4

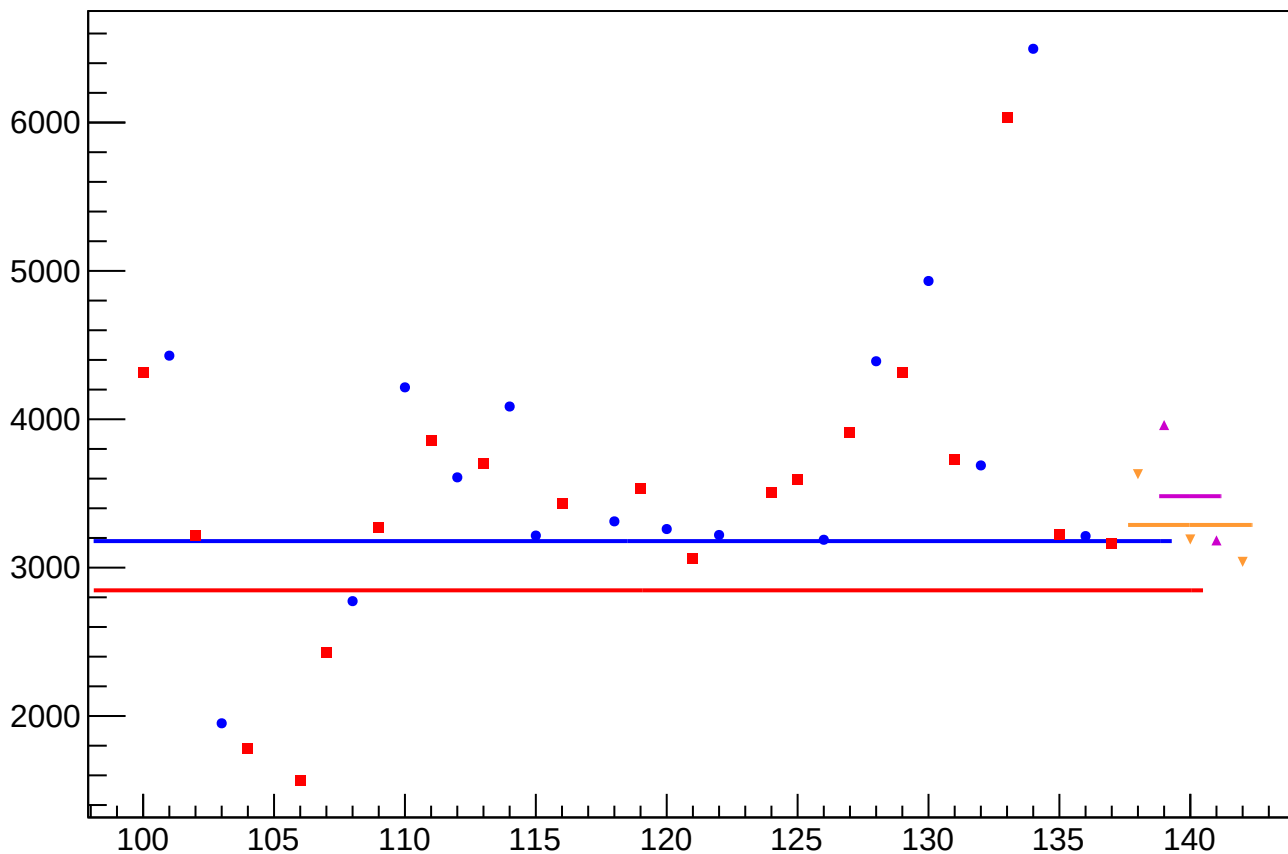
Right: 436.095 $\pm$ 826.478 χ^2 /NDF: 30.7/34

In: 1031.043 $\pm$ 1119.118 χ^2 /NDF: 13.9/17

Out: -642.332 $\pm$ 1003.148 χ^2 /NDF: 18.4/21

All: 103.187 $\pm$ 746.979 χ^2 /NDF: 33.5/39

asym_usr_atr2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3178.870 $\pm$ 0.872 χ^2 /NDF: 1091676.8/15

Left Out: 3287.747 $\pm$ 1.632 χ^2 /NDF:21026.9/2

Right Out: 2847.016 $\pm$ 0.788 χ^2 /NDF: 1511160.9/18

Left In: 3481.561 $\pm$ 1.887 χ^2 /NDF:40121.5/1

Left: 3370.669 $\pm$ 1.234 χ^2 /NDF: 67184.1/4

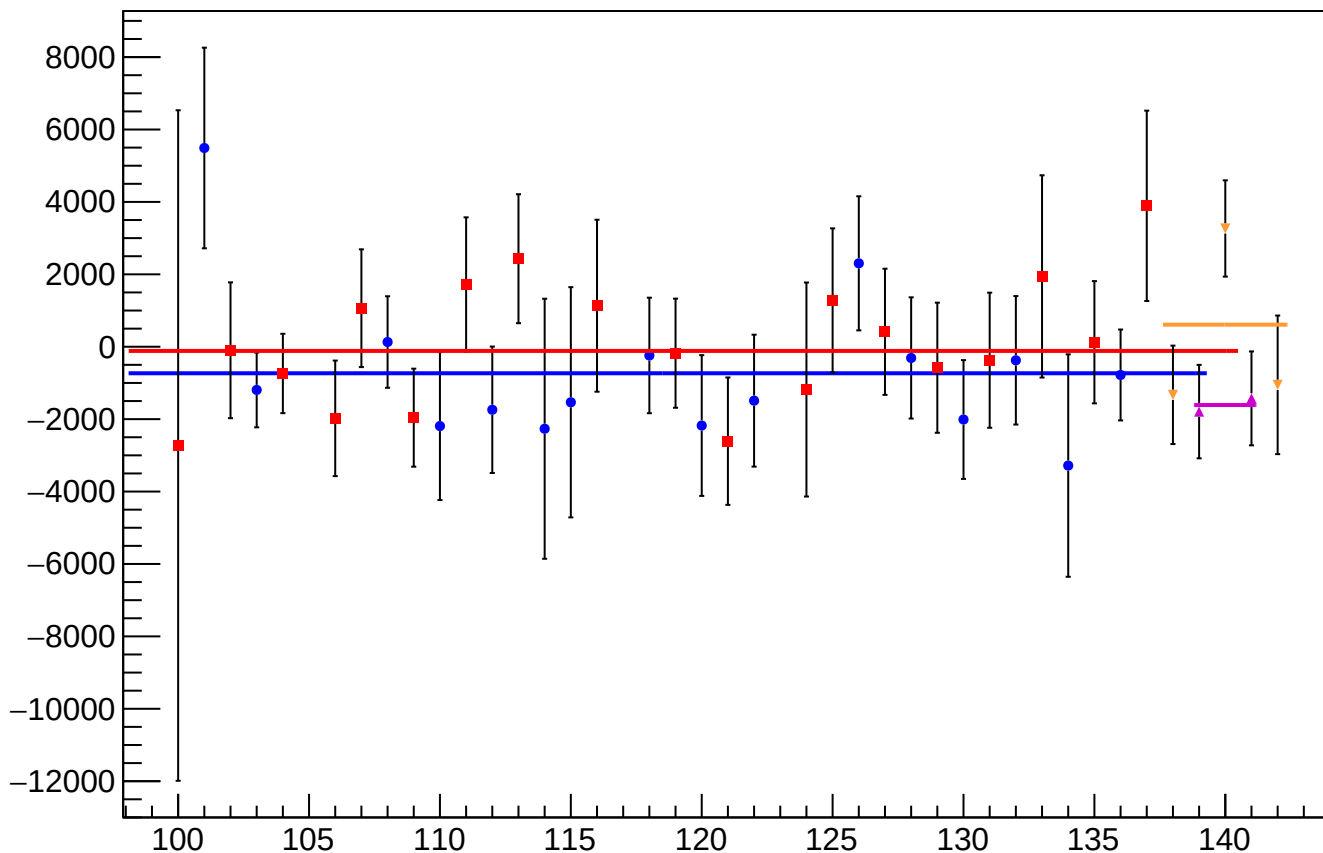
Right: 2996.178 $\pm$ 0.584 χ^2 /NDF: 2682627.1/34

In: 3232.102 $\pm$ 0.791 χ^2 /NDF:1153003.9/17

Out: 2930.298 $\pm$ 0.709 χ^2 /NDF:1591353.3/21

All: 3064.758 $\pm$ 0.528 χ^2 /NDF: 2825009.1/39

cor_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -732.682+/-427.385 χ^2/NDF : 11.7/15

Left Out: 609.279+/-851.460 χ^2/NDF :6.8/2

Right Out: -115.308+/-411.441 χ^2/NDF : 13.1/18

Left In: -1610.073+/-914.807 χ^2/NDF :0.0/1

Left: -420.903+/-623.266 χ^2/NDF : 10.0/4

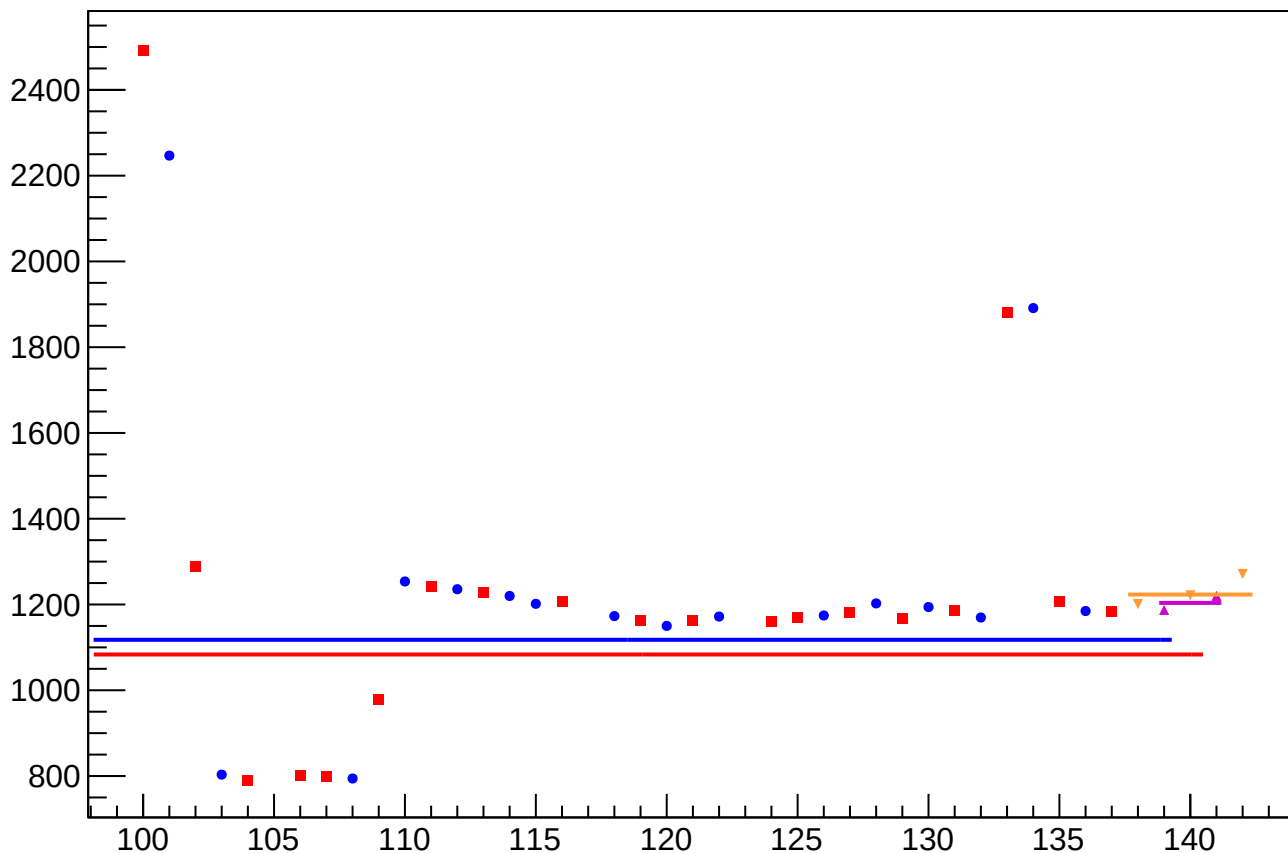
Right: -412.265+/-296.409 χ^2/NDF : 25.9/34

In: -889.874+/-387.212 χ^2/NDF :12.5/17

Out: 21.856+/-370.457 χ^2/NDF :20.5/21

All: -413.858+/-267.680 χ^2/NDF : 35.9/39

cor_asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 1117.684 $\pm$ 0.302 χ^2 /NDF: 819831.7/15

Left Out: 1223.190 $\pm$ 0.602 χ^2 /NDF:1797.3/2

Right Out: 1083.421 $\pm$ 0.290 χ^2 /NDF: 595016.7/18

Left In: 1203.699 $\pm$ 0.647 χ^2 /NDF:638.3/1

Left: 1214.143 $\pm$ 0.441 χ^2 /NDF: 2922.1/4

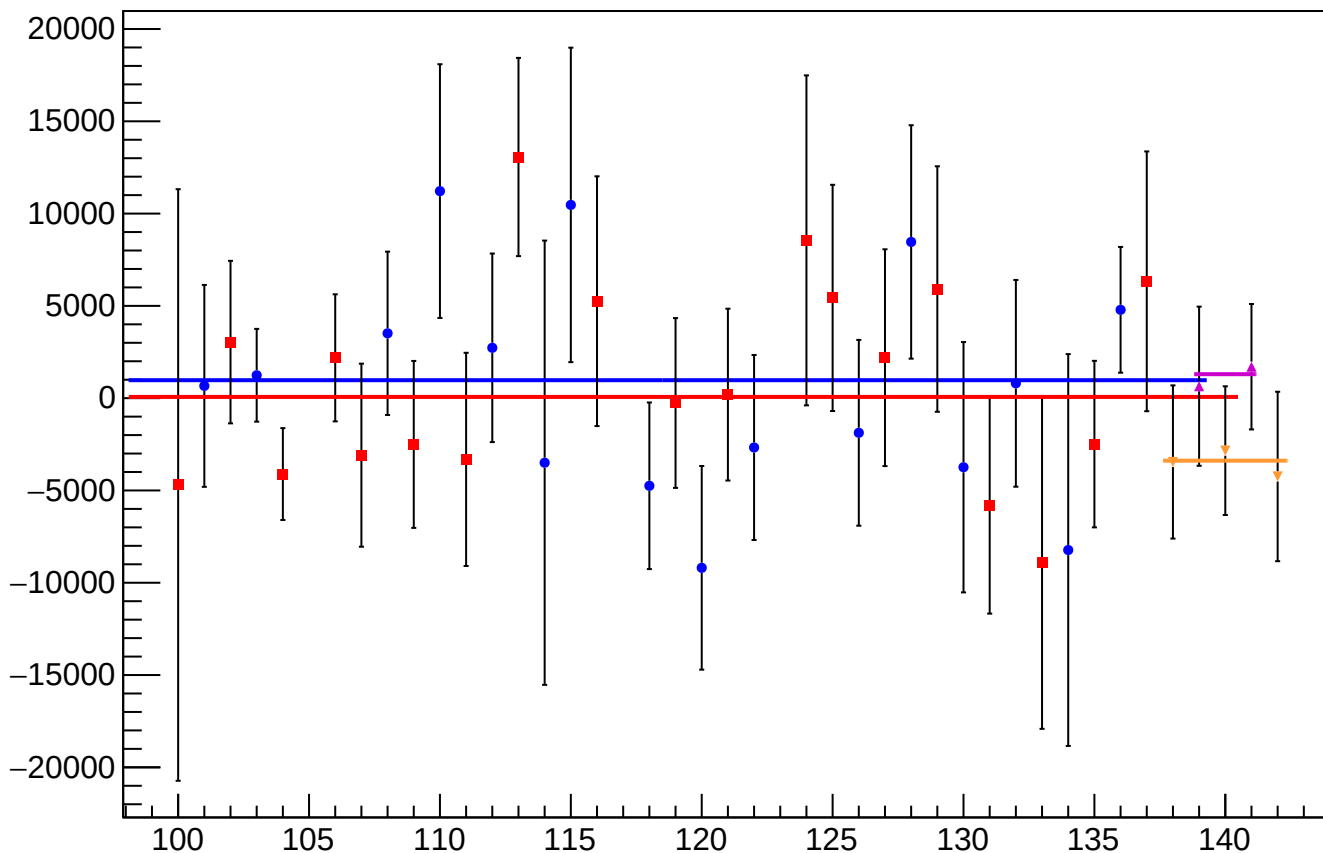
Right: 1099.869 $\pm$ 0.209 χ^2 /NDF: 1421532.1/34

In: 1133.095 $\pm$ 0.274 χ^2 /NDF:834983.7/17

Out: 1109.797 $\pm$ 0.262 χ^2 /NDF:640535.8/21

All: 1120.912 $\pm$ 0.189 χ^2 /NDF: 1479305.4/39

asym_usr_atr2_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 973.256+/-1232.803 χ^2/NDF : 13.8/15

Left Out: -3386.601+/-2307.667 χ^2/NDF : 0.1/2

Right Out: 67.113+/-1137.892 χ^2/NDF : 16.9/18

Left In: 1299.475+/-2668.627 χ^2/NDF : 0.0/1

Left: -1381.693+/-1745.542 χ^2/NDF : 1.9/4

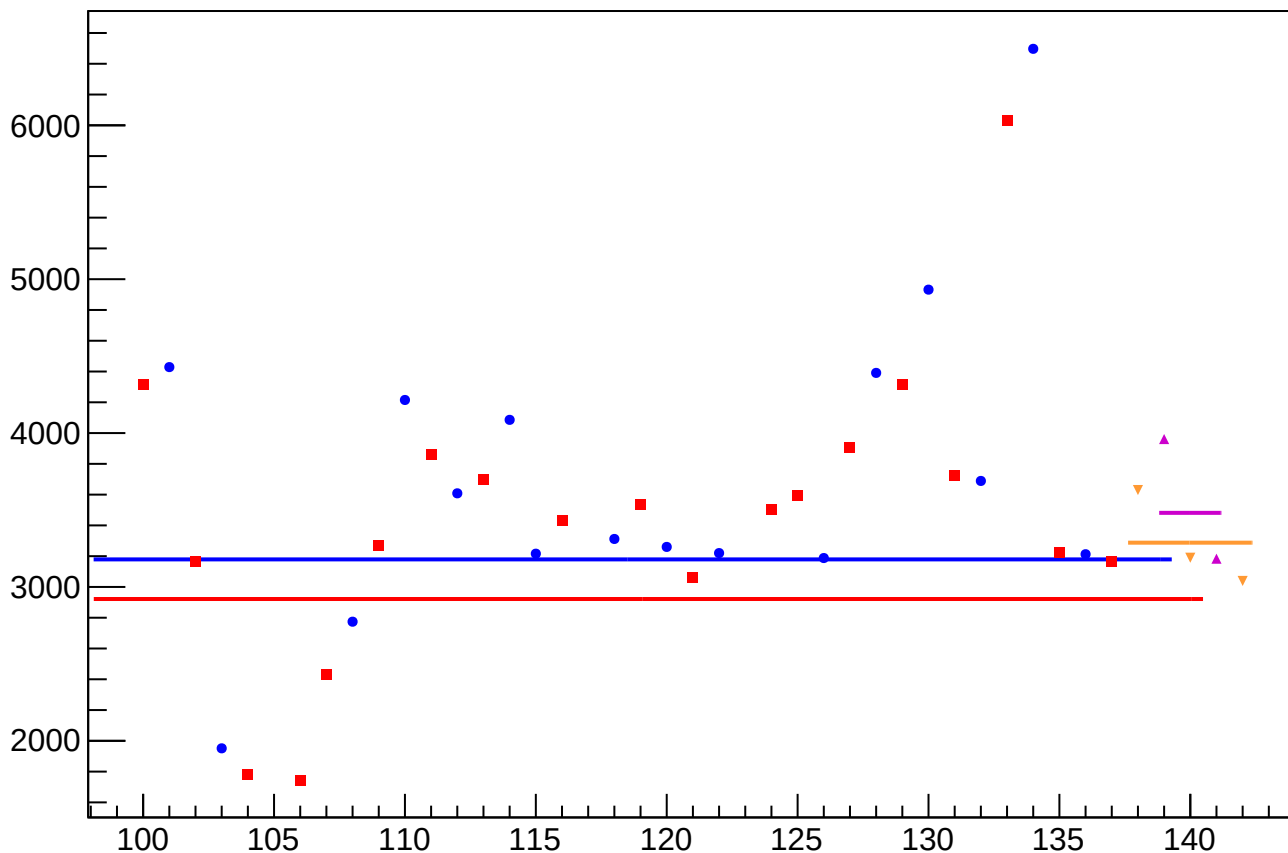
Right: 483.965+/-836.154 χ^2/NDF : 31.0/34

In: 1030.630+/-1119.155 χ^2/NDF : 13.9/17

Out: -608.382+/-1020.566 χ^2/NDF : 18.8/21

All: 135.765+/-754.100 χ^2/NDF : 33.8/39

asym_usr_atr2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3179.054 $\pm$ 0.872 χ^2/NDF : 1091236.5/15

Left Out: 3287.733 $\pm$ 1.632 χ^2/NDF : 21028.0/2

Right Out: 2921.641 $\pm$ 0.805 χ^2/NDF : 1312890.1/18

Left In: 3481.560 $\pm$ 1.887 χ^2/NDF : 40121.4/1

Left: 3370.661 $\pm$ 1.234 χ^2/NDF : 67186.0/4

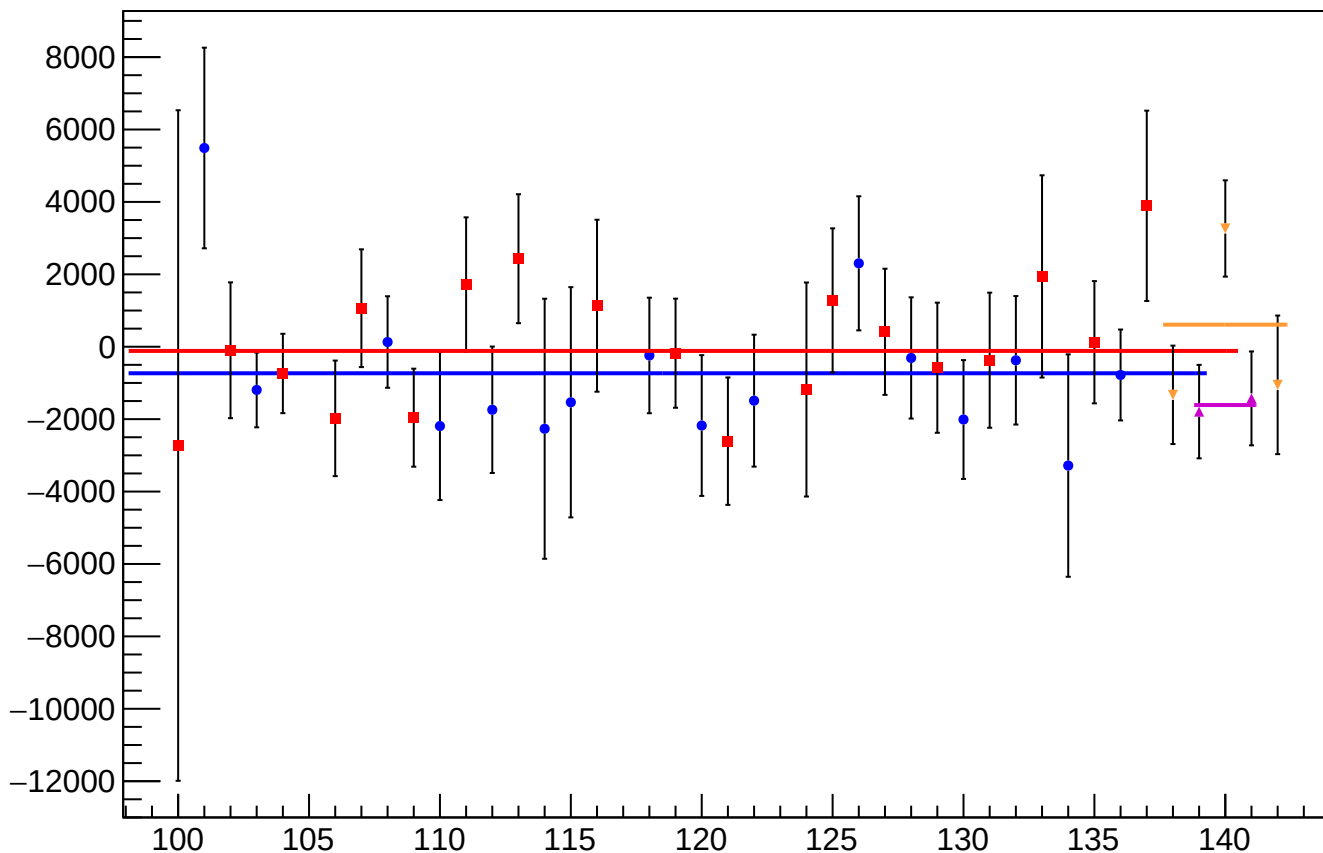
Right: 3040.058 $\pm$ 0.591 χ^2/NDF : 2451210.8/34

In: 3232.257 $\pm$ 0.791 χ^2/NDF : 1152537.4/17

Out: 2993.243 $\pm$ 0.722 χ^2/NDF : 1374407.8/21

All: 3101.761 $\pm$ 0.533 χ^2/NDF : 2576750.1/39

eigen_cor_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -732.682+/-427.385 χ^2/NDF : 11.7/15

Left Out: 609.279+/-851.460 χ^2/NDF : 6.8/2

Right Out: -115.308+/-411.441 χ^2/NDF : 13.1/18

Left In: -1610.073+/-914.807 χ^2/NDF : 0.0/1

Left: -420.903+/-623.266 χ^2/NDF : 10.0/4

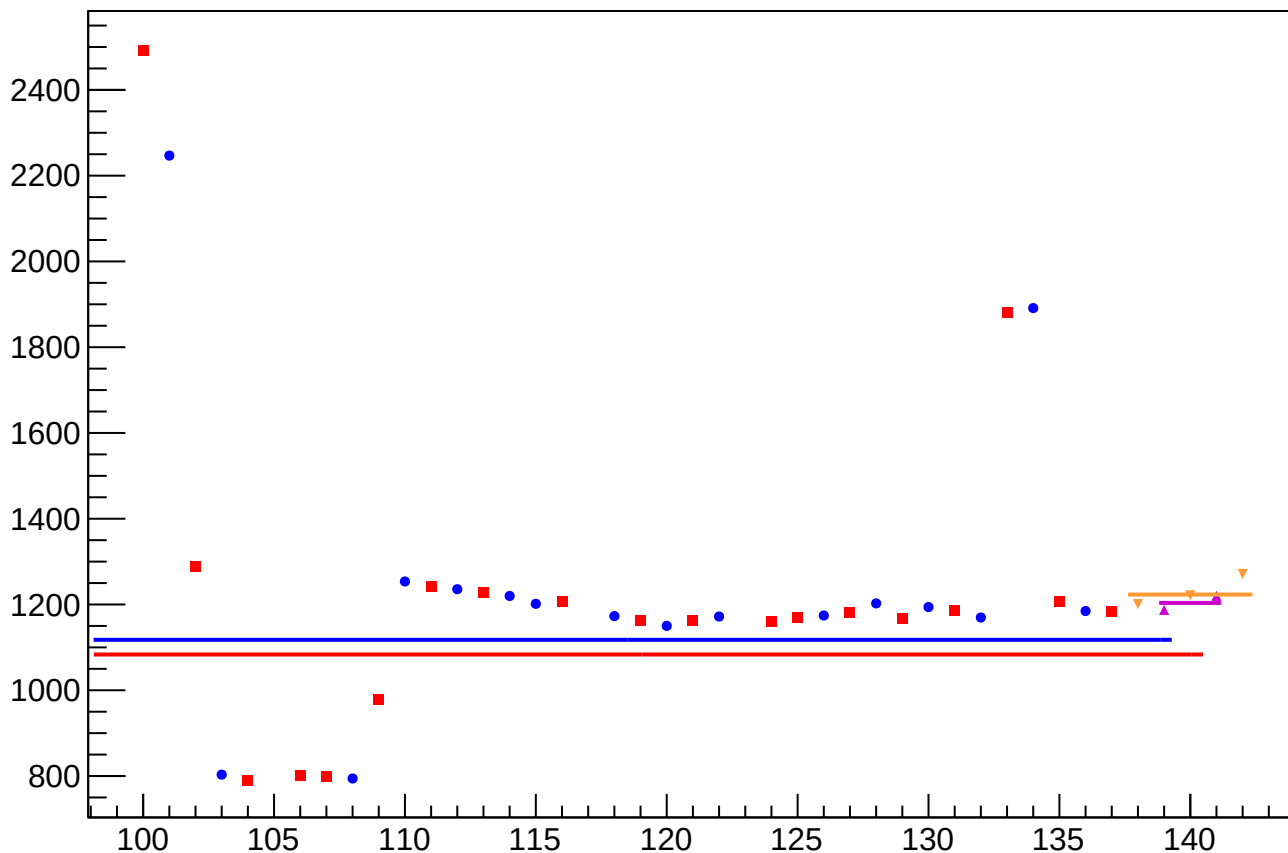
Right: -412.265+/-296.409 χ^2/NDF : 25.9/34

In: -889.874+/-387.212 χ^2/NDF : 12.5/17

Out: 21.856+/-370.457 χ^2/NDF : 20.5/21

All: -413.858+/-267.680 χ^2/NDF : 35.9/39

eigen_cor_asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 1117.684 $\pm$ 0.302 χ^2 /NDF: 819831.7/15

Left Out: 1223.190 $\pm$ 0.602 χ^2 /NDF:1797.3/2

Right Out: 1083.421 $\pm$ 0.290 χ^2 /NDF: 595016.7/18

Left In: 1203.699 $\pm$ 0.647 χ^2 /NDF:638.3/1

Left: 1214.143 $\pm$ 0.441 χ^2 /NDF: 2922.1/4

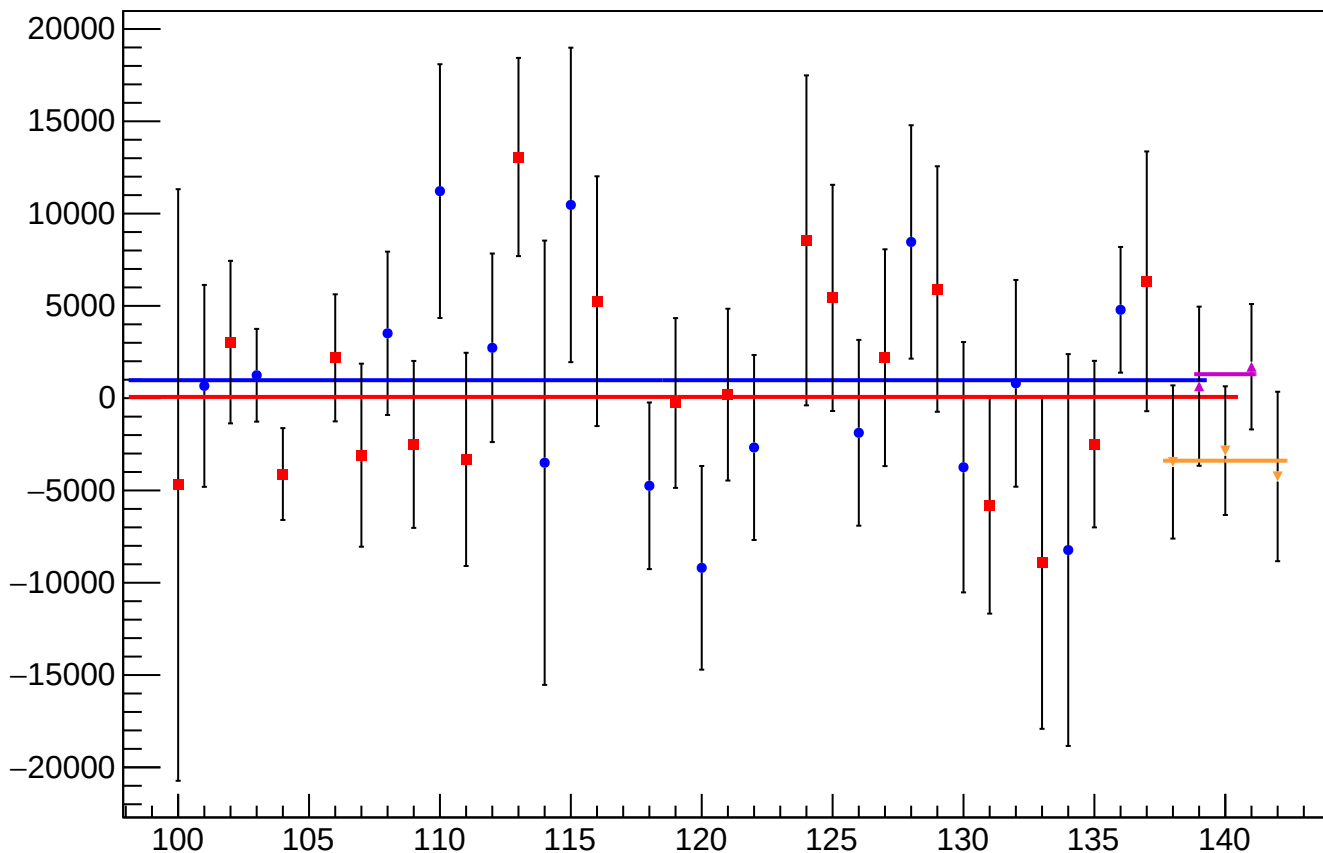
Right: 1099.869 $\pm$ 0.209 χ^2 /NDF: 1421532.1/34

In: 1133.095 $\pm$ 0.274 χ^2 /NDF:834983.7/17

Out: 1109.797 $\pm$ 0.262 χ^2 /NDF:640535.8/21

All: 1120.912 $\pm$ 0.189 χ^2 /NDF: 1479305.4/39

asym_usr_atr2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 973.256+/-1232.803 χ^2/NDF : 13.8/15

Left Out: -3386.601+/-2307.667 χ^2/NDF : 0.1/2

Right Out: 67.113+/-1137.892 χ^2/NDF : 16.9/18

Left In: 1299.475+/-2668.627 χ^2/NDF : 0.0/1

Left: -1381.693+/-1745.542 χ^2/NDF : 1.9/4

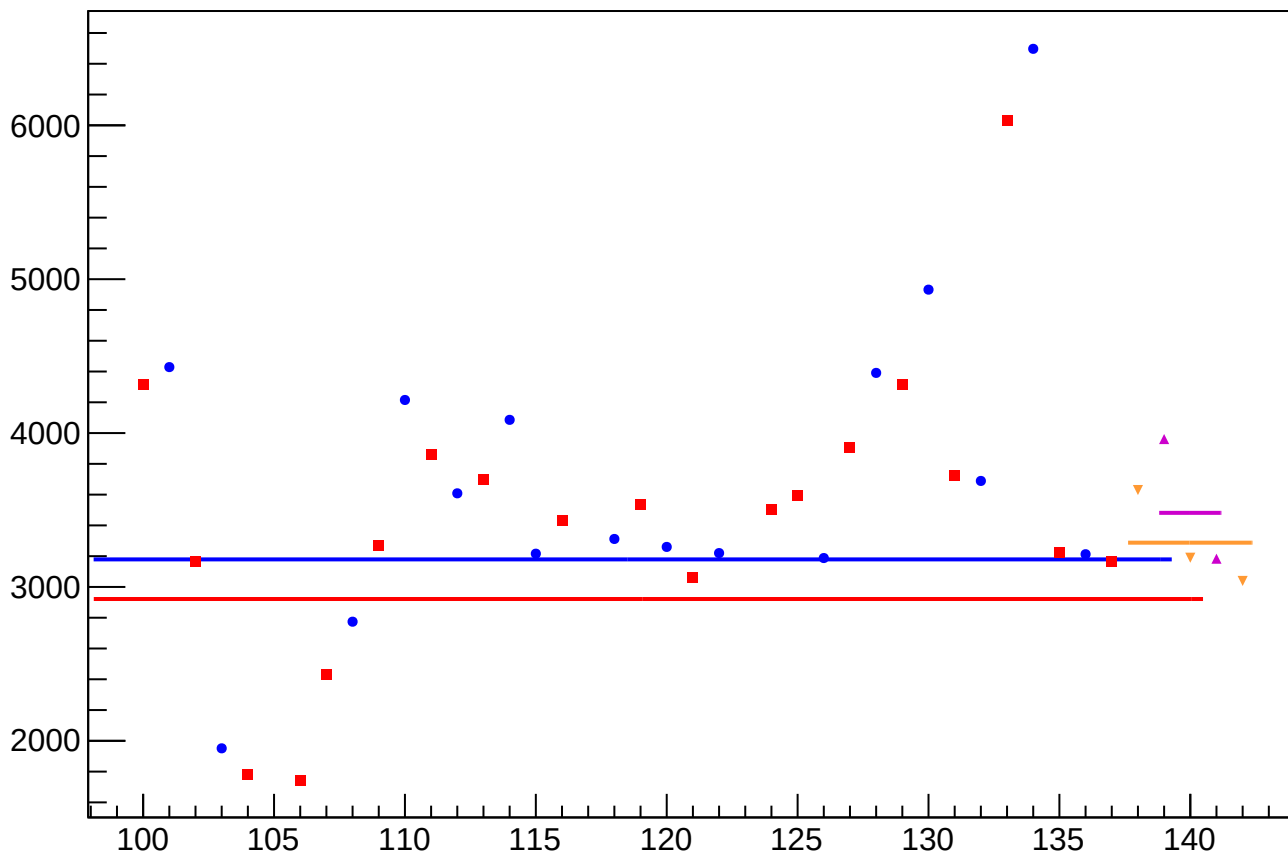
Right: 483.965+/-836.154 χ^2/NDF : 31.0/34

In: 1030.630+/-1119.155 χ^2/NDF : 13.9/17

Out: -608.382+/-1020.566 χ^2/NDF : 18.8/21

All: 135.765+/-754.100 χ^2/NDF : 33.8/39

asym_usr_atr2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3179.054+/-0.872 χ^2/NDF : 1091236.5/15

Left Out: 3287.733+/-1.632 χ^2/NDF : 21028.0/2

Right Out: 2921.641+/-0.805 χ^2/NDF : 1312890.1/18

Left In: 3481.560+/-1.887 χ^2/NDF : 40121.4/1

Left: 3370.661+/-1.234 χ^2/NDF : 67186.0/4

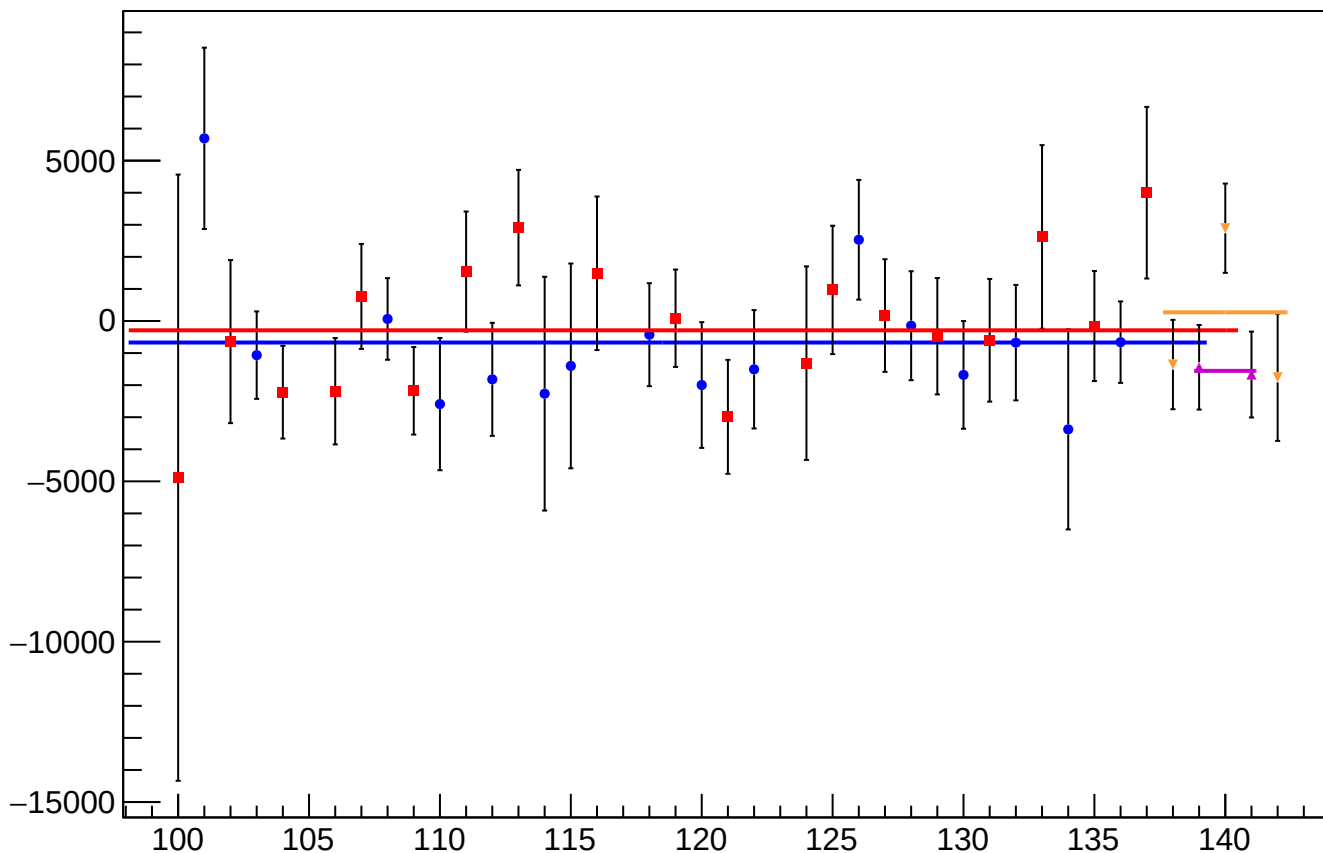
Right: 3040.058+/-0.591 χ^2/NDF : 2451210.8/34

In: 3232.257+/-0.791 χ^2/NDF : 1152537.4/17

Out: 2993.243+/-0.722 χ^2/NDF : 1374407.8/21

All: 3101.761+/-0.533 χ^2/NDF : 2576750.1/39

dit_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -670.819 ± 448.500 χ^2/NDF : 11.9/15

Left Out: 270.790 ± 881.970 χ^2/NDF : 6.0/2

Right Out: -290.311 ± 434.425 χ^2/NDF : 16.9/18

Left In: -1554.721 ± 939.224 χ^2/NDF : 0.0/1

Left: -584.633 ± 642.936 χ^2/NDF : 8.0/4

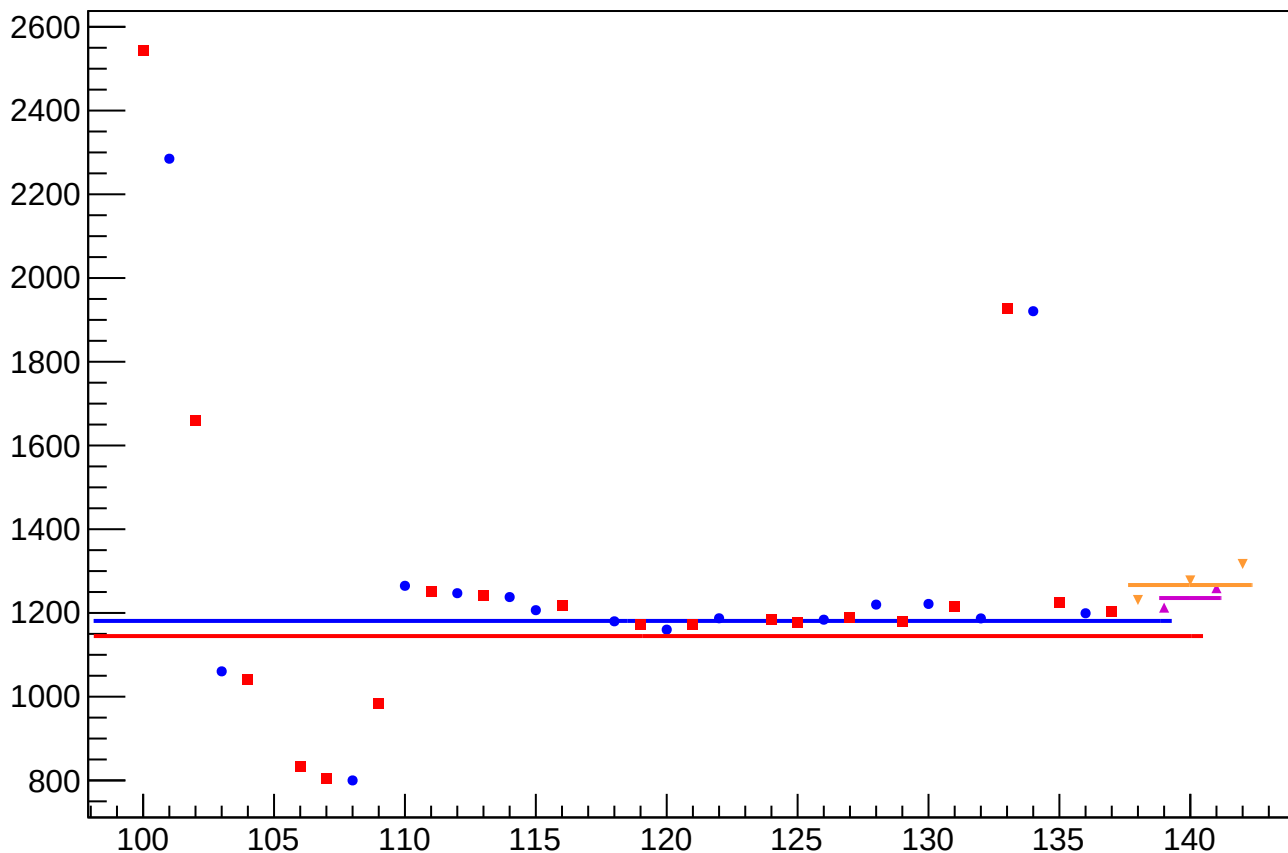
Right: -474.501 ± 312.042 χ^2/NDF : 29.2/34

In: -834.947 ± 404.724 χ^2/NDF : 12.6/17

Out: -180.758 ± 389.714 χ^2/NDF : 23.2/21

All: -495.497 ± 280.726 χ^2/NDF : 37.2/39

dit_asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 1180.955+/-0.317 χ^2/NDF : 621878.6/15

Left Out: 1266.714+/-0.624 χ^2/NDF : 2727.0/2

Right Out: 1144.777+/-0.307 χ^2/NDF : 497730.6/18

Left In: 1235.640+/-0.664 χ^2/NDF : 1222.8/1

Left: 1252.153+/-0.455 χ^2/NDF : 5113.1/4

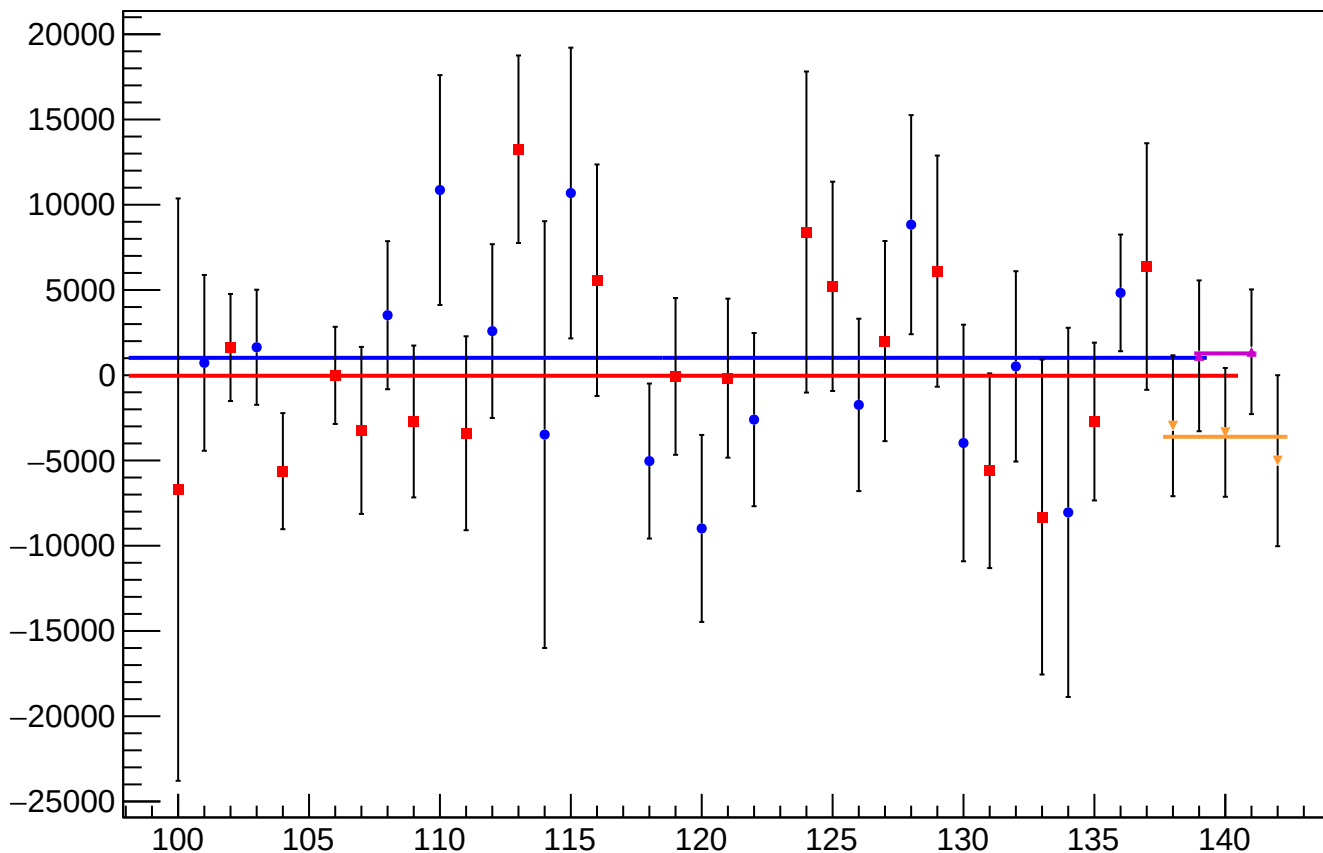
Right: 1162.281+/-0.221 χ^2/NDF : 1126326.7/34

In: 1191.110+/-0.286 χ^2/NDF : 628622.5/17

Out: 1168.567+/-0.275 χ^2/NDF : 531228.1/21

All: 1179.408+/-0.198 χ^2/NDF : 1163071.2/39

asym_usr_atr2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1021.047 $\pm$ 1302.431 χ^2 /NDF: 13.9/15

Left Out: -3609.343 $\pm$ 2436.439 χ^2 /NDF:0.1/2

Right Out: -30.135 $\pm$ 1130.743 χ^2 /NDF: 16.1/18

Left In: 1280.365 $\pm$ 2818.391 χ^2 /NDF:0.0/1

Left: -1518.034 $\pm$ 1843.185 χ^2 /NDF: 1.8/4

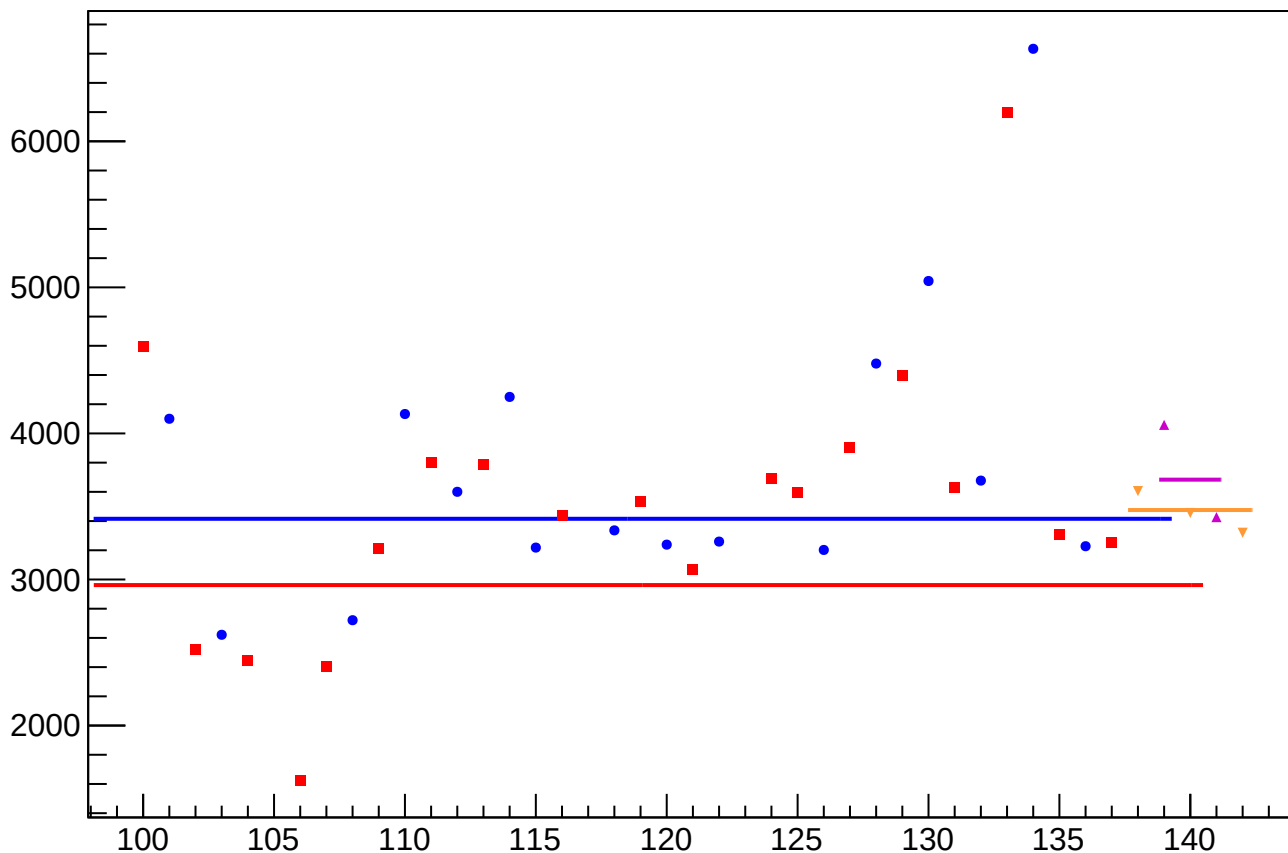
Right: 421.650 $\pm$ 853.851 χ^2 /NDF: 30.4/34

In: 1066.680 $\pm$ 1182.293 χ^2 /NDF:13.9/17

Out: -664.427 $\pm$ 1025.668 χ^2 /NDF:18.0/21

All: 78.942 $\pm$ 774.757 χ^2 /NDF: 33.1/39

asym_usr_atr2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3415.595 $\pm$ 0.921 χ^2/NDF : 592344.0/15

Left Out: 3475.623 $\pm$ 1.723 χ^2/NDF : 3950.5/2

Right Out: 2961.798 $\pm$ 0.800 χ^2/NDF : 1169257.4/18

Left In: 3683.462 $\pm$ 1.993 χ^2/NDF : 24237.5/1

Left: 3564.515 $\pm$ 1.303 χ^2/NDF : 34412.6/4

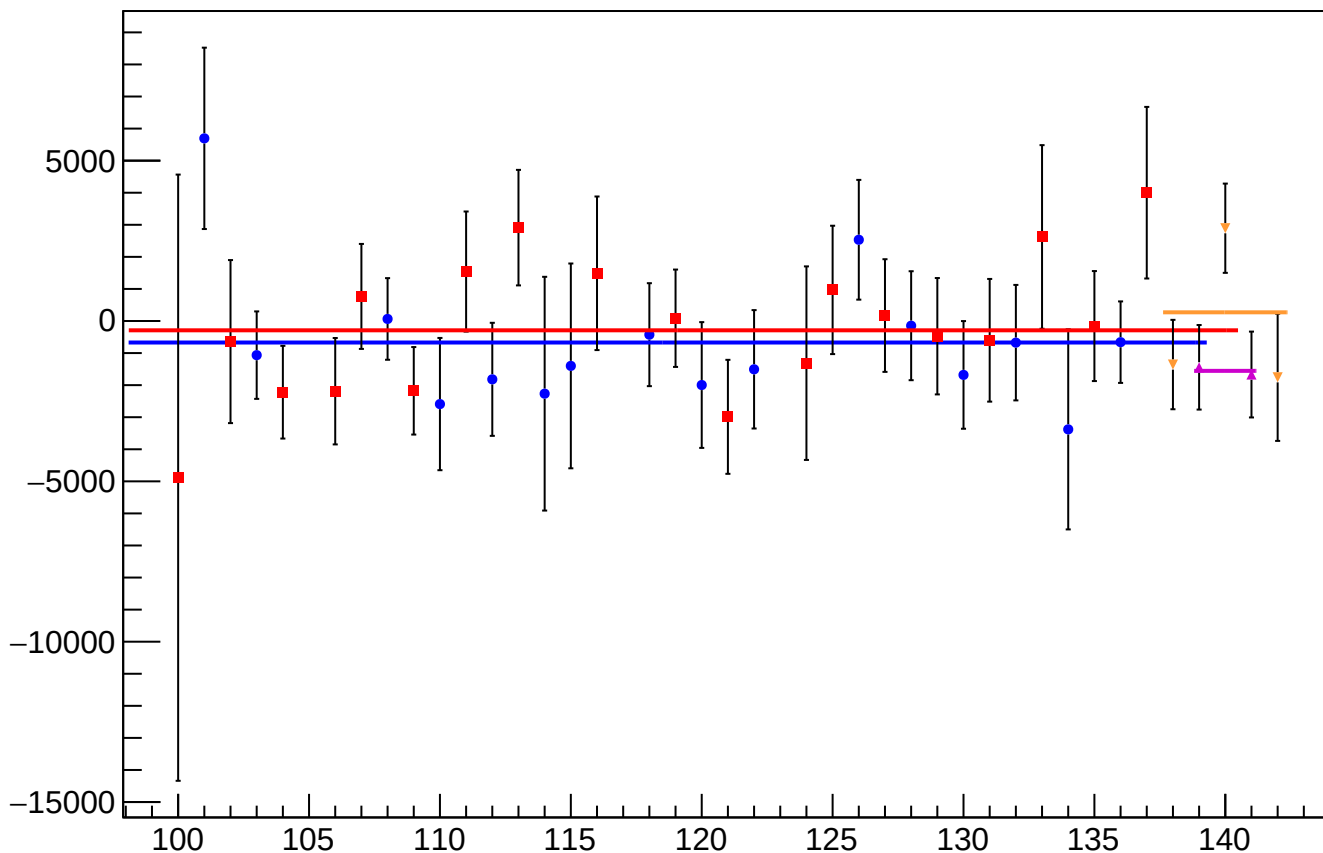
Right: 3156.834 $\pm$ 0.604 χ^2/NDF : 1900046.9/34

In: 3462.732 $\pm$ 0.836 χ^2/NDF : 631468.5/17

Out: 3052.856 $\pm$ 0.725 χ^2/NDF : 1246395.0/21

All: 3228.864 $\pm$ 0.548 χ^2/NDF : 2015015.7/39

eigen_dit_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -670.824+/-448.500 χ^2/NDF : 11.9/15

Left Out: 270.786+/-881.971 χ^2/NDF : 6.0/2

Right Out: -290.316+/-434.425 χ^2/NDF : 16.9/18

Left In: -1554.705+/-939.224 χ^2/NDF : 0.0/1

Left: -584.628+/-642.936 χ^2/NDF : 8.0/4

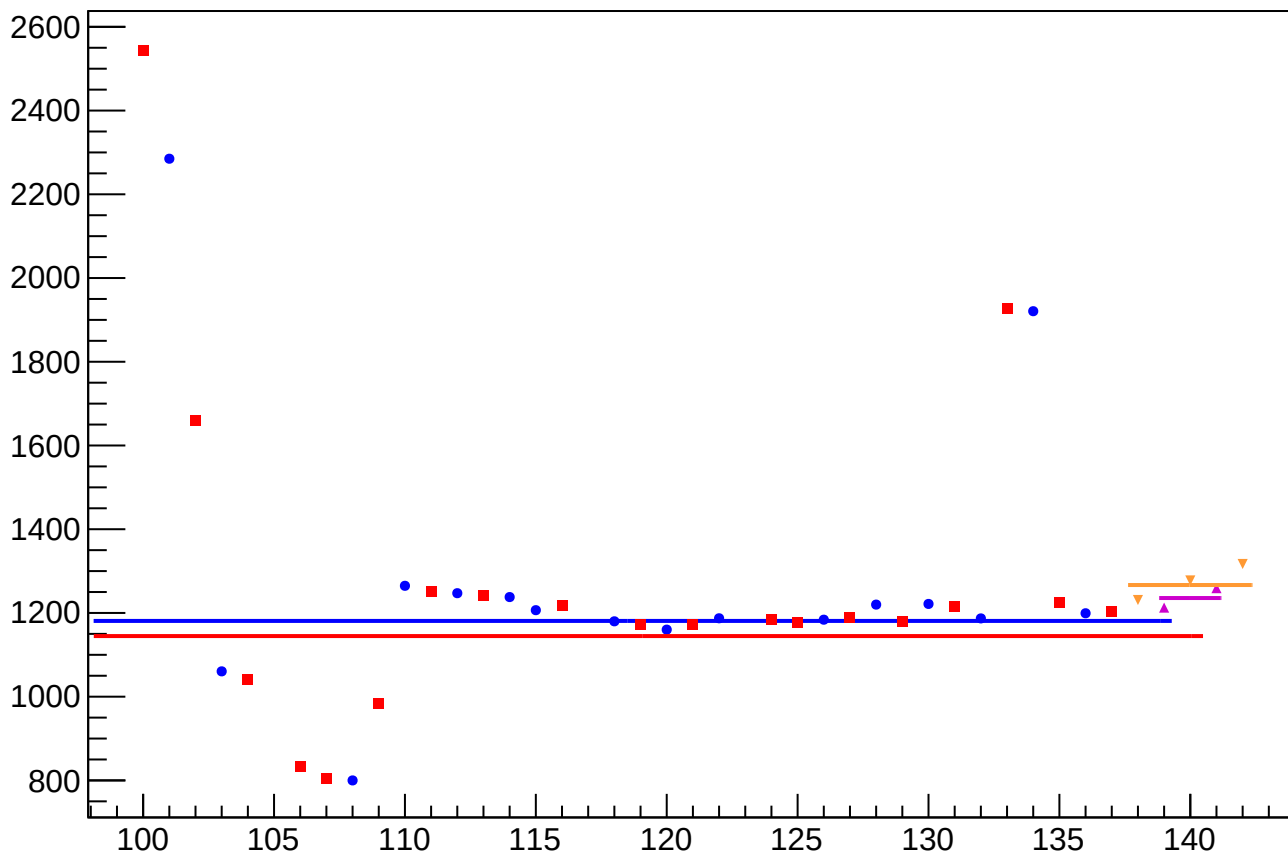
Right: -474.506+/-312.042 χ^2/NDF : 29.2/34

In: -834.948+/-404.723 χ^2/NDF : 12.6/17

Out: -180.763+/-389.714 χ^2/NDF : 23.2/21

All: -495.500+/-280.726 χ^2/NDF : 37.2/39

eigen_dit_asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 1180.955+/-0.317 χ^2/NDF : 621878.9/15

Left Out: 1266.714+/-0.624 χ^2/NDF : 2726.9/2

Right Out: 1144.777+/-0.307 χ^2/NDF : 497730.2/18

Left In: 1235.641+/-0.664 χ^2/NDF : 1222.7/1

Left: 1252.153+/-0.455 χ^2/NDF : 5112.9/4

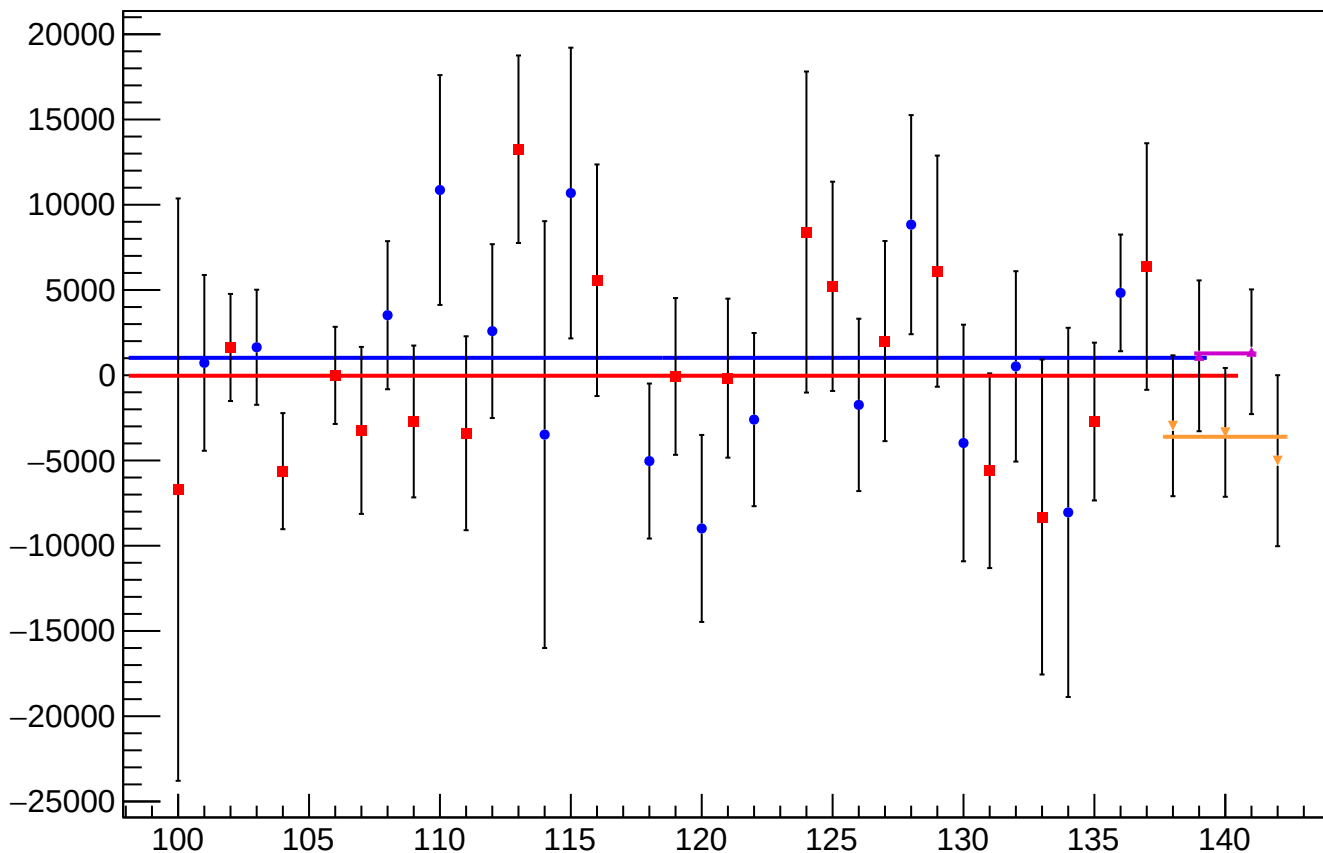
Right: 1162.281+/-0.221 χ^2/NDF : 1126326.4/34

In: 1191.109+/-0.286 χ^2/NDF : 628622.8/17

Out: 1168.567+/-0.275 χ^2/NDF : 531227.5/21

All: 1179.409+/-0.198 χ^2/NDF : 1163070.9/39

asym_usr_atr2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1021.029+/-1302.430 χ^2/NDF : 13.9/15

Left Out: -3609.351+/-2436.439 χ^2/NDF : 0.1/2

Right Out: -30.142+/-1130.741 χ^2/NDF : 16.1/18

Left In: 1280.383+/-2818.392 χ^2/NDF : 0.0/1

Left: -1518.031+/-1843.185 χ^2/NDF : 1.8/4

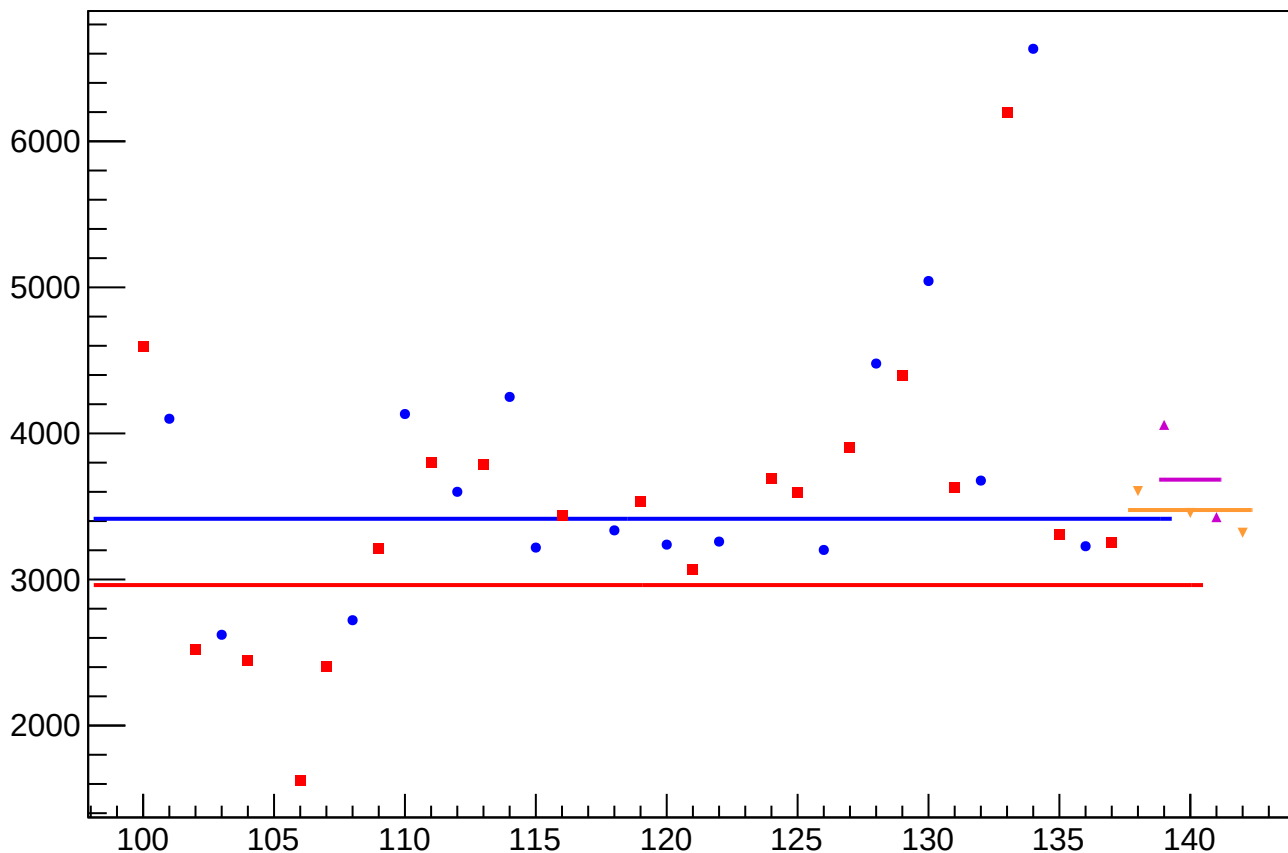
Right: 421.639+/-853.849 χ^2/NDF : 30.4/34

In: 1066.669+/-1182.292 χ^2/NDF : 13.9/17

Out: -664.432+/-1025.666 χ^2/NDF : 18.0/21

All: 78.934+/-774.756 χ^2/NDF : 33.1/39

asym_usr_atr2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3415.591 $\pm$ 0.921 χ^2 /NDF: 592339.1/15

Left Out: 3475.623 $\pm$ 1.723 χ^2 /NDF:3950.6/2

Right Out: 2961.793 $\pm$ 0.800 χ^2 /NDF: 1169257.0/18

Left In: 3683.463 $\pm$ 1.993 χ^2 /NDF:24238.1/1

Left: 3564.515 $\pm$ 1.303 χ^2 /NDF: 34413.3/4

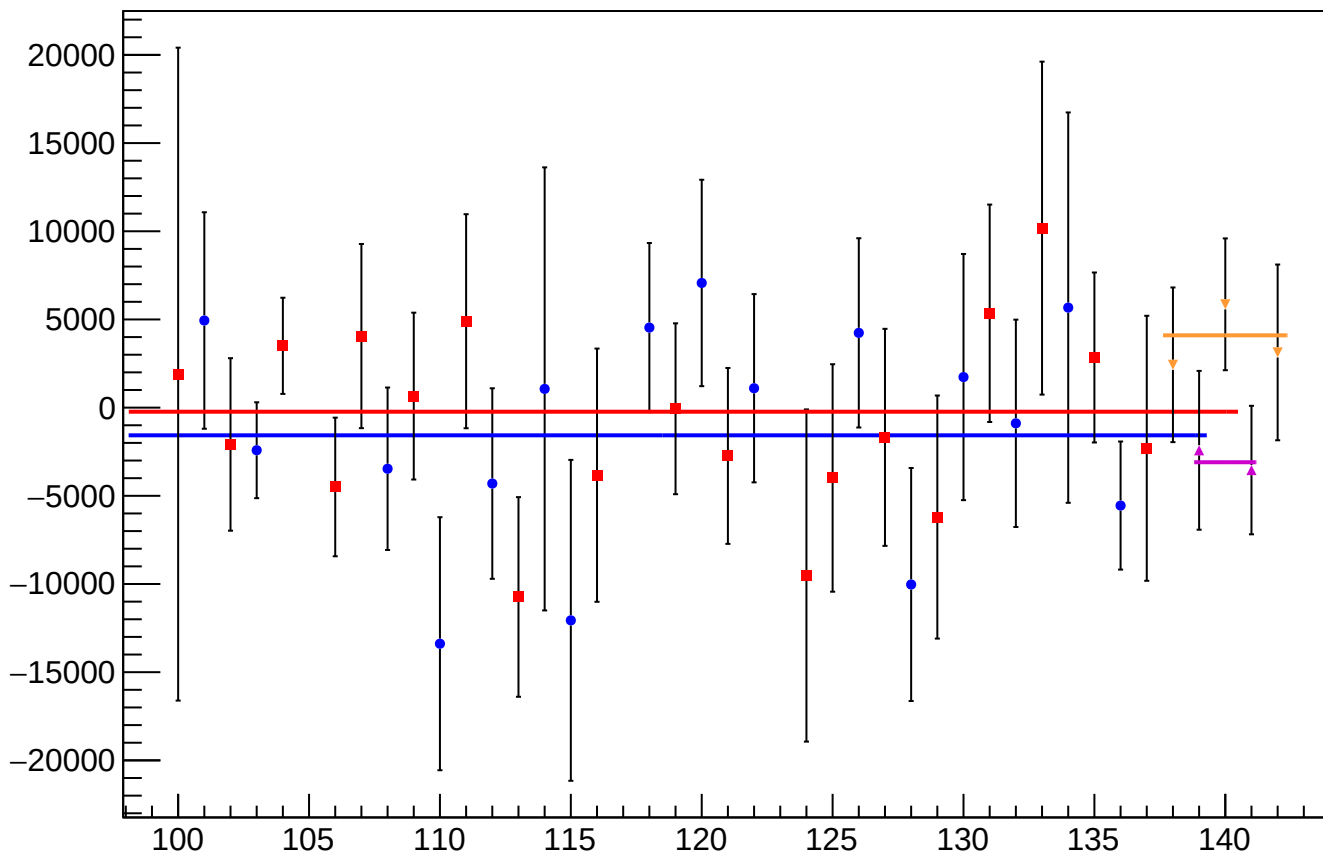
Right: 3156.830 $\pm$ 0.604 χ^2 /NDF: 1900042.9/34

In: 3462.729 $\pm$ 0.836 χ^2 /NDF:631464.7/17

Out: 3052.852 $\pm$ 0.725 χ^2 /NDF:1246396.3/21

All: 3228.861 $\pm$ 0.548 χ^2 /NDF: 2015014.4/39

asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -1569.809 ± 1312.937 χ^2/NDF : 14.5/15

Left Out: 4099.853 ± 2470.078 χ^2/NDF : 0.4/2

Right Out: -231.125 ± 1224.318 χ^2/NDF : 13.2/18

Left In: -3096.706 ± 2832.269 χ^2/NDF : 0.0/1

Left: 990.870 ± 1861.578 χ^2/NDF : 4.1/4

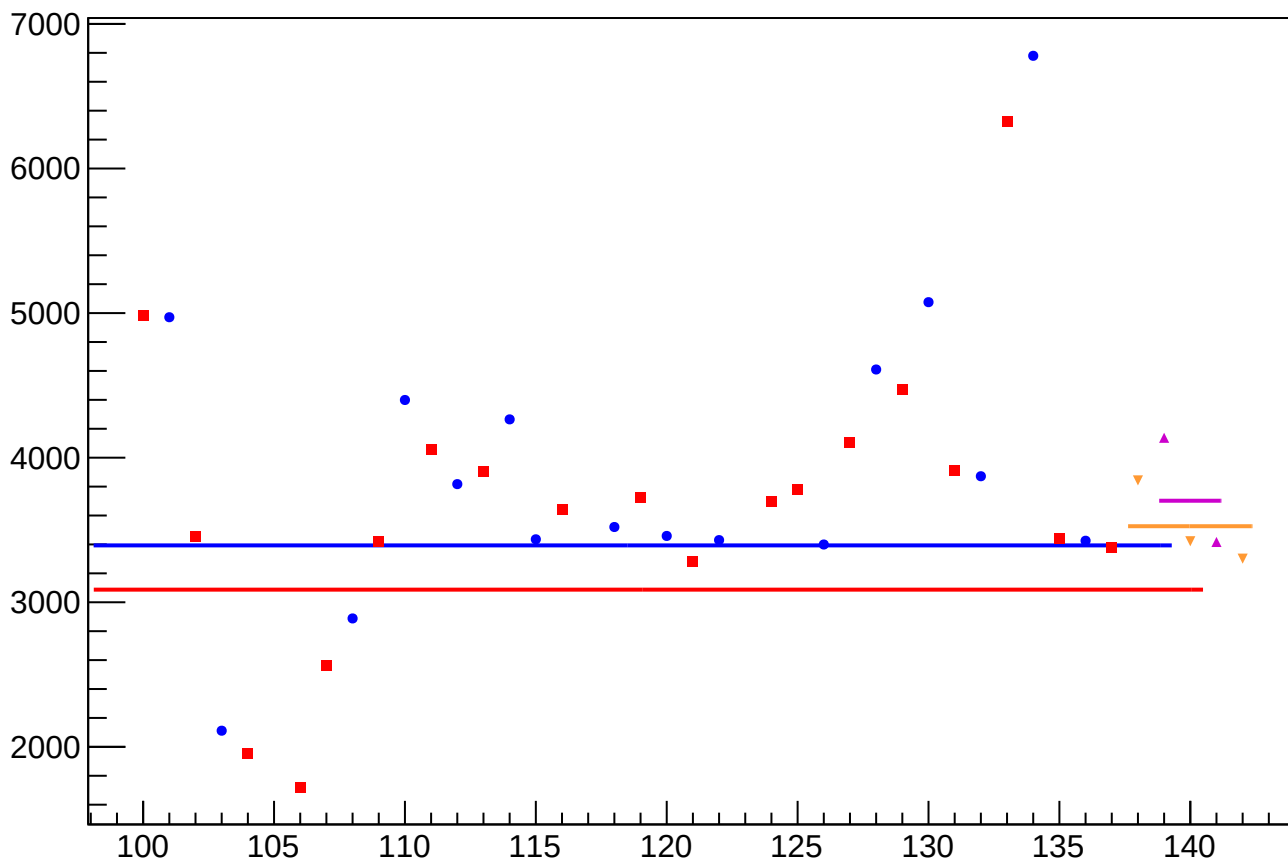
Right: -853.767 ± 895.415 χ^2/NDF : 28.2/34

In: -1839.888 ± 1191.174 χ^2/NDF : 14.7/17

Out: 623.050 ± 1096.961 χ^2/NDF : 16.1/21

All: -507.180 ± 806.923 χ^2/NDF : 33.2/39

asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 3393.365 $\pm$ 0.928 χ^2 /NDF: 1048707.6/15

Left Out: 3525.947 $\pm$ 1.747 χ^2 /NDF:16045.2/2

Right Out: 3087.307 $\pm$ 0.851 χ^2 /NDF: 1328355.8/18

Left In: 3702.238 $\pm$ 2.003 χ^2 /NDF:30959.7/1

Left: 3602.106 $\pm$ 1.316 χ^2 /NDF: 51406.0/4

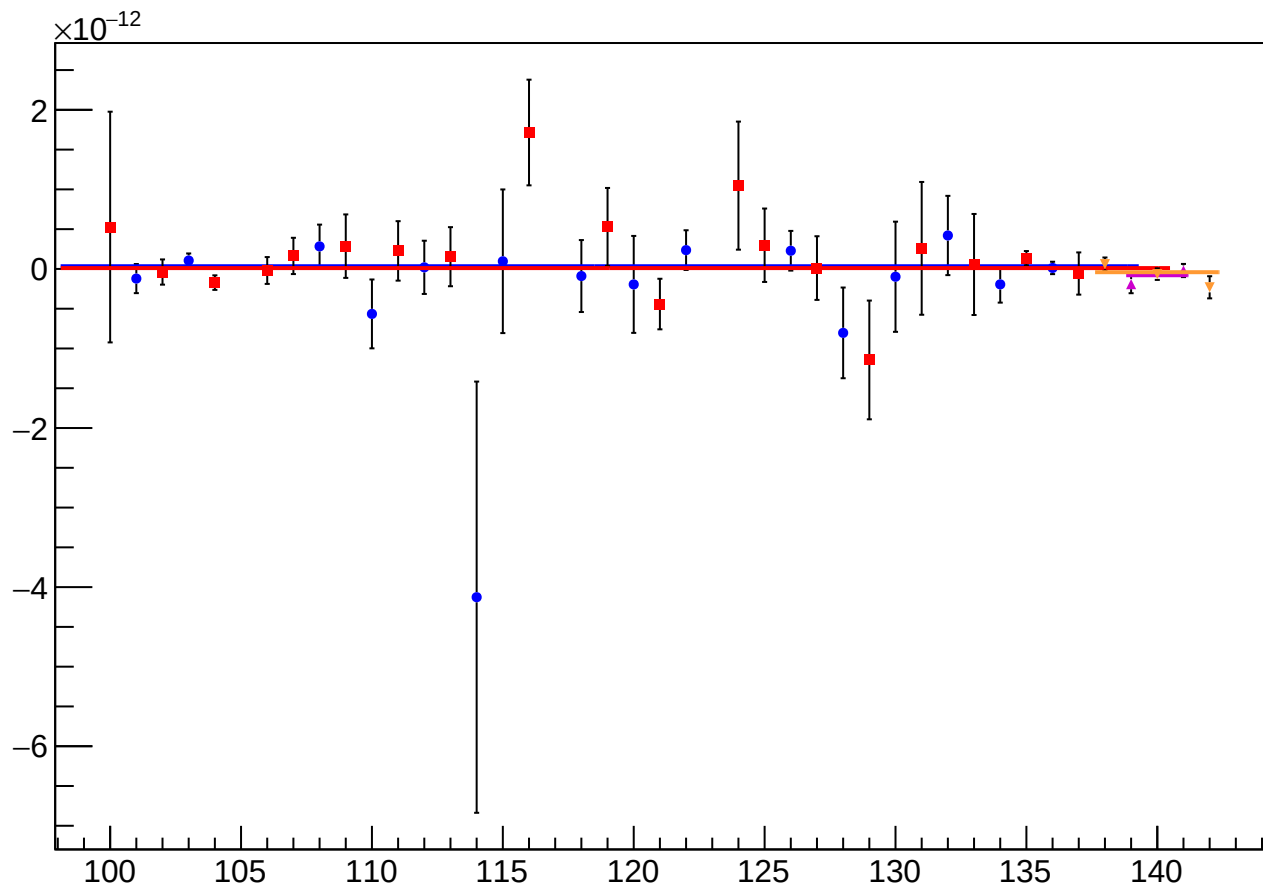
Right: 3227.090 $\pm$ 0.627 χ^2 /NDF: 2436107.0/34

In: 3447.999 $\pm$ 0.842 χ^2 /NDF:1099245.9/17

Out: 3171.495 $\pm$ 0.765 χ^2 /NDF:1395366.3/21

All: 3296.515 $\pm$ 0.566 χ^2 /NDF: 2553652.1/39

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 21.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 1.5/1

Left: -0.000+/-0.000 χ^2/NDF : 5.1/4

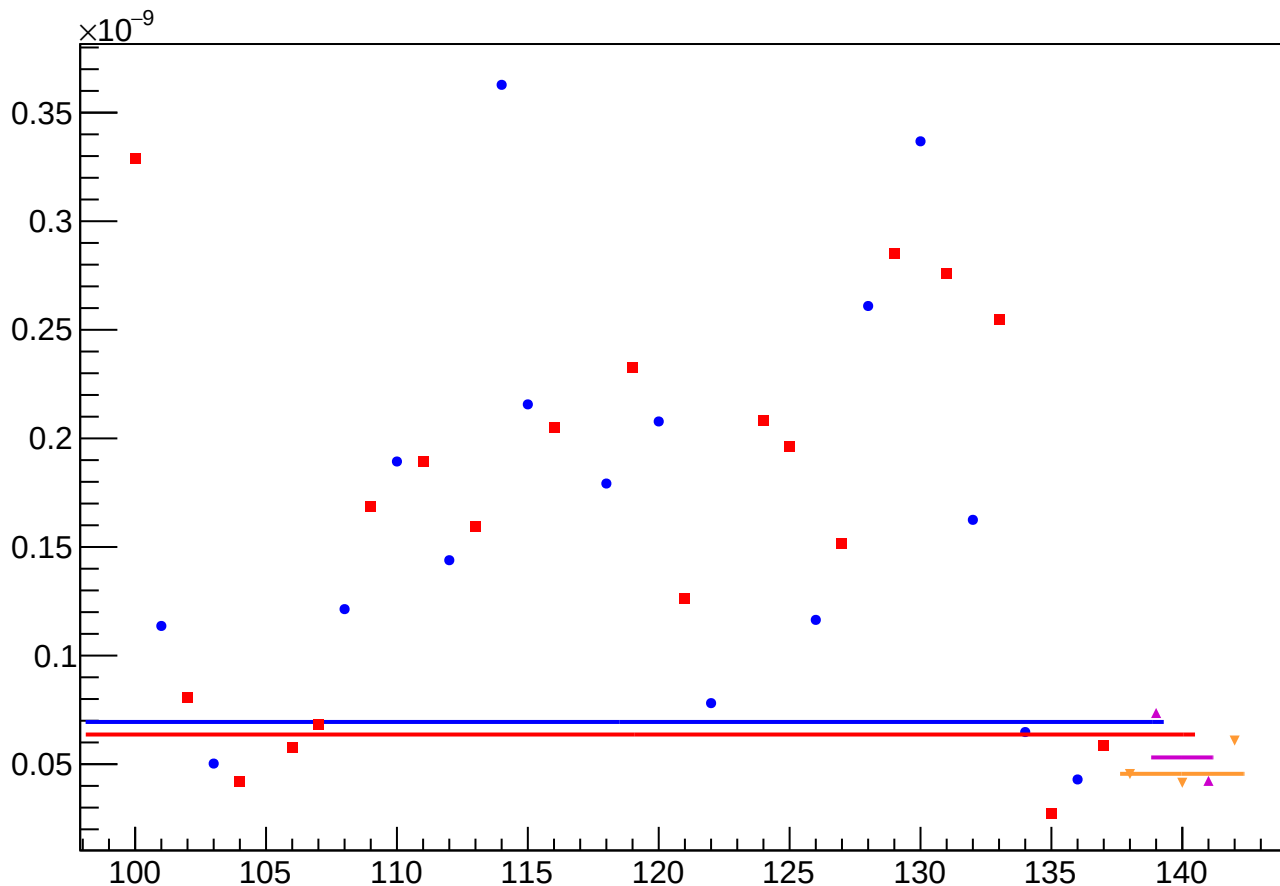
Right: 0.000+/-0.000 χ^2/NDF : 33.8/34

In: -0.000+/-0.000 χ^2/NDF : 15.1/17

Out: -0.000+/-0.000 χ^2/NDF : 25.8/21

All: -0.000+/-0.000 χ^2/NDF : 41.0/39

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1729471.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 30592.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2250342.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 98410.6/1

Left: 0.000+/-0.000 χ^2/NDF : 145034.0/4

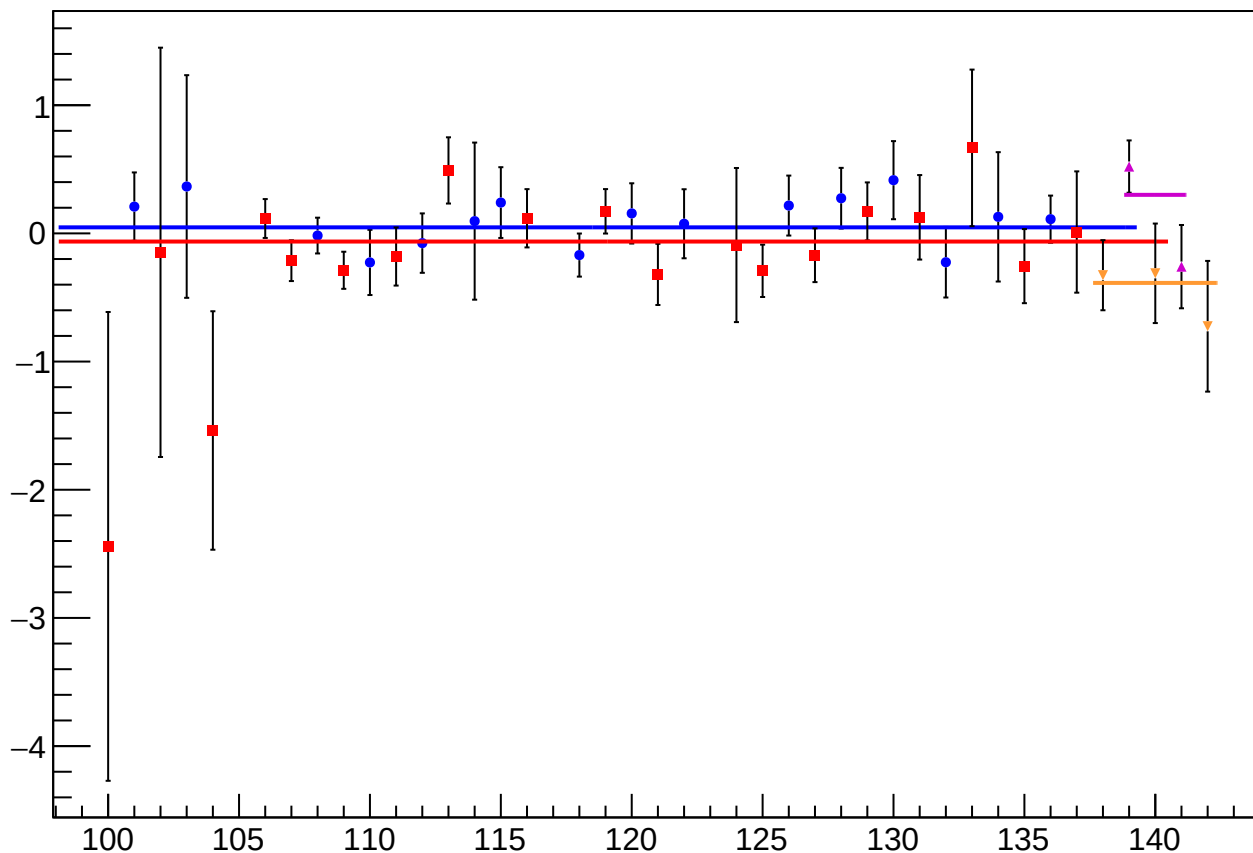
Right: 0.000+/-0.000 χ^2/NDF : 3993621.5/34

In: 0.000+/-0.000 χ^2/NDF : 1905439.9/17

Out: 0.000+/-0.000 χ^2/NDF : 2410005.0/21

All: 0.000+/-0.000 χ^2/NDF : 4370858.5/39

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.060 χ^2 /NDF: 8.6/15

Left Out: -0.386 $\pm$ 0.205 χ^2 /NDF:0.5/2

Right Out: -0.064 $\pm$ 0.055 χ^2 /NDF: 22.2/18

Left In: 0.301 $\pm$ 0.173 χ^2 /NDF:4.1/1

Left: 0.015 $\pm$ 0.132 χ^2 /NDF: 11.2/4

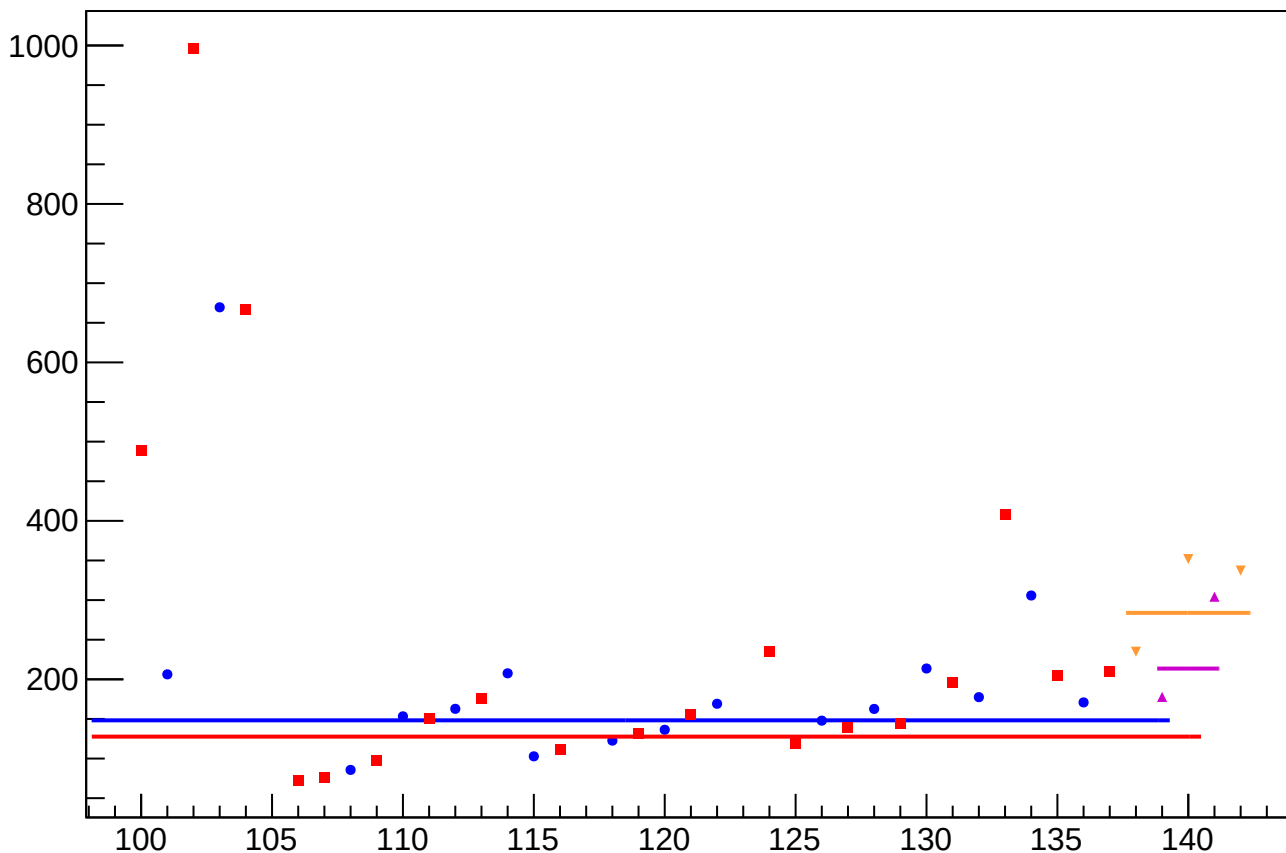
Right: -0.013 $\pm$ 0.040 χ^2 /NDF: 32.7/34

In: 0.074 $\pm$ 0.057 χ^2 /NDF:14.6/17

Out: -0.085 $\pm$ 0.053 χ^2 /NDF:25.1/21

All: -0.011 $\pm$ 0.039 χ^2 /NDF: 43.9/39

asym_usr_atr2_dd_dit_vs_Slug, Sign Corrected



Right In: 148.240 $\pm$ 0.042 χ^2 /NDF: 1710035.6/15

Left Out: 283.885 $\pm$ 0.145 χ^2 /NDF:147389.6/2

Right Out: 127.685 $\pm$ 0.039 χ^2 /NDF: 2841780.7/18

Left In: 213.564 $\pm$ 0.122 χ^2 /NDF:217379.2/1

Left: 242.802 $\pm$ 0.093 χ^2 /NDF: 502586.1/4

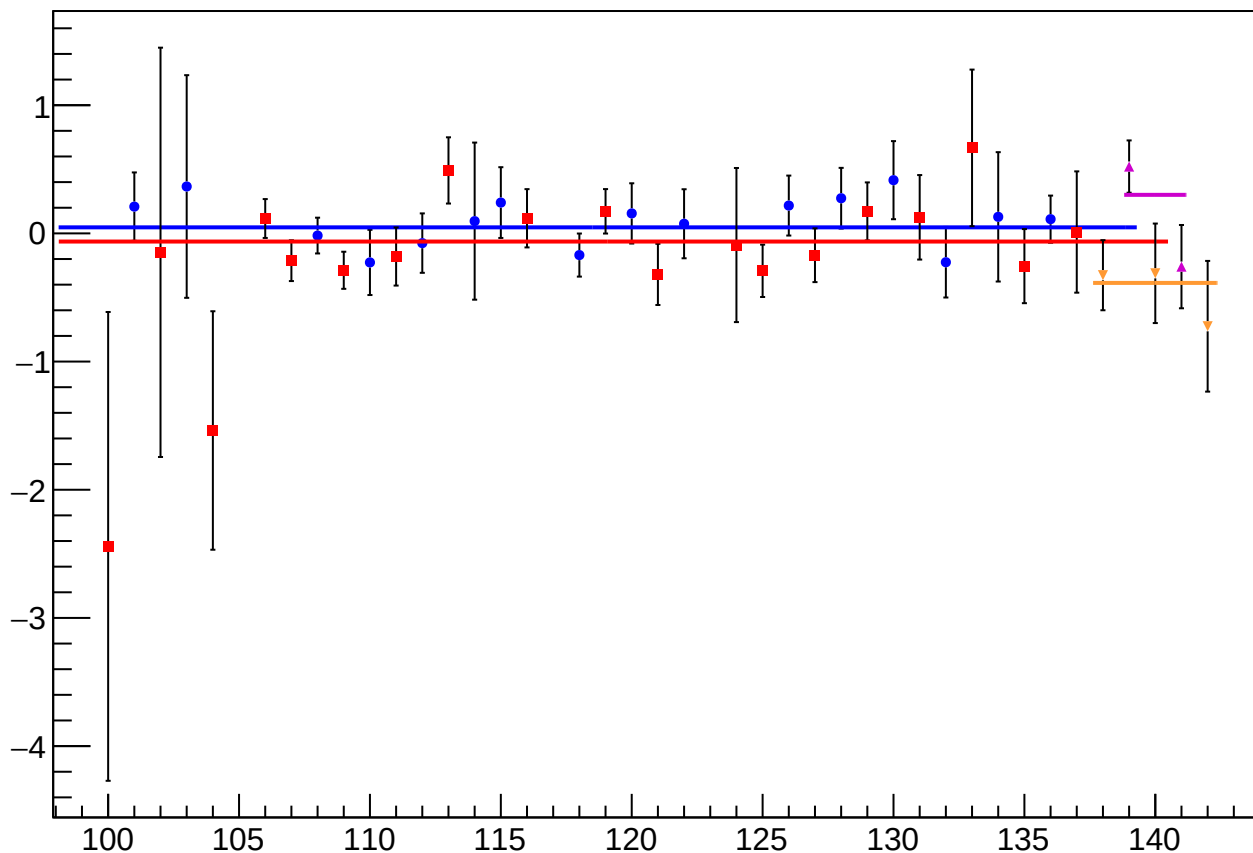
Right: 137.004 $\pm$ 0.029 χ^2 /NDF: 4680006.1/34

In: 155.279 $\pm$ 0.040 χ^2 /NDF:2182626.4/17

Out: 138.079 $\pm$ 0.037 χ^2 /NDF:4075628.8/21

All: 146.069 $\pm$ 0.027 χ^2 /NDF: 6356800.8/39

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.060 χ^2 /NDF: 8.6/15

Left Out: -0.386 $\pm$ 0.205 χ^2 /NDF:0.5/2

Right Out: -0.064 $\pm$ 0.055 χ^2 /NDF: 22.2/18

Left In: 0.301 $\pm$ 0.173 χ^2 /NDF:4.1/1

Left: 0.015 $\pm$ 0.132 χ^2 /NDF: 11.2/4

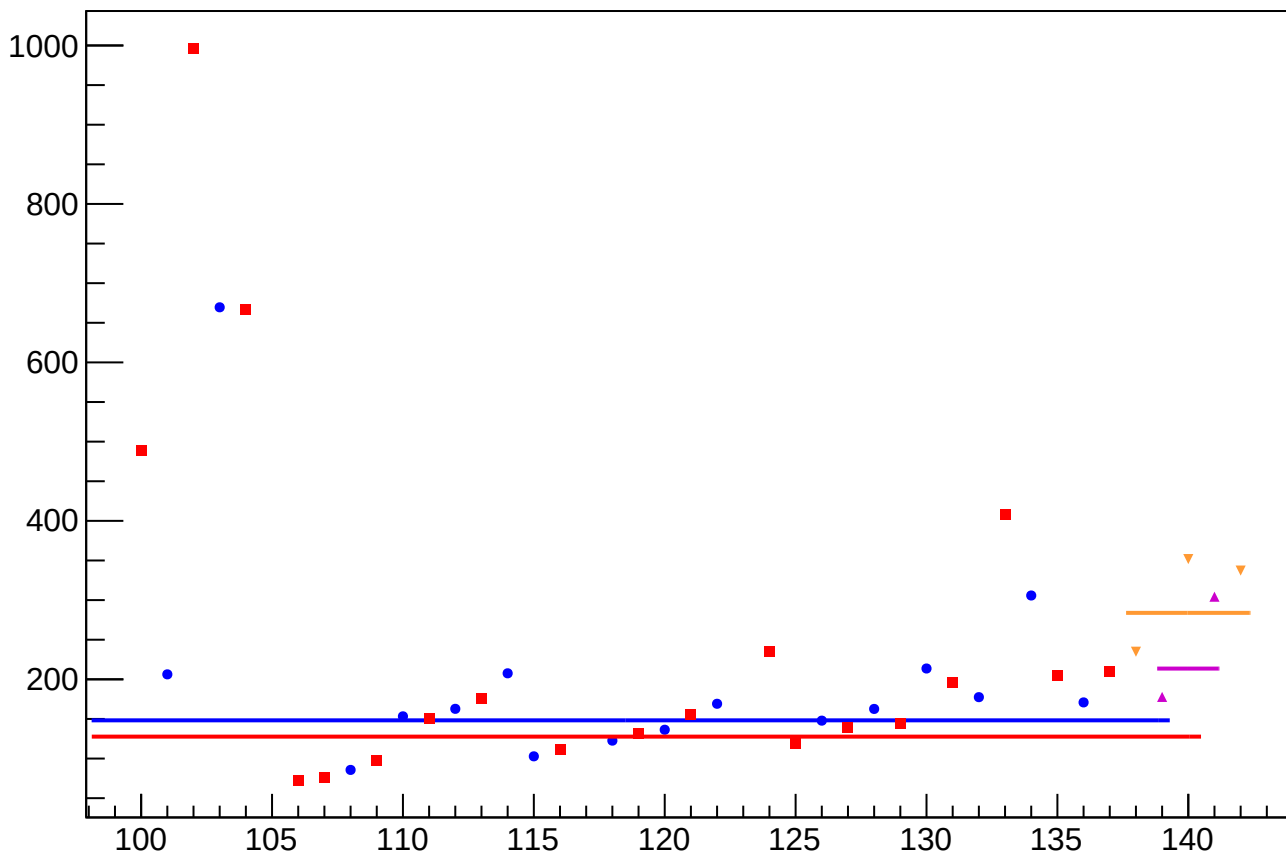
Right: -0.013 $\pm$ 0.040 χ^2 /NDF: 32.7/34

In: 0.074 $\pm$ 0.057 χ^2 /NDF:14.6/17

Out: -0.085 $\pm$ 0.053 χ^2 /NDF:25.1/21

All: -0.011 $\pm$ 0.039 χ^2 /NDF: 43.9/39

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 148.240 $\pm$ 0.042 χ^2 /NDF: 1710035.6/15

Left Out: 283.885 $\pm$ 0.145 χ^2 /NDF:147389.6/2

Right Out: 127.685 $\pm$ 0.039 χ^2 /NDF: 2841780.7/18

Left In: 213.564 $\pm$ 0.122 χ^2 /NDF:217379.2/1

Left: 242.802 $\pm$ 0.093 χ^2 /NDF: 502586.1/4

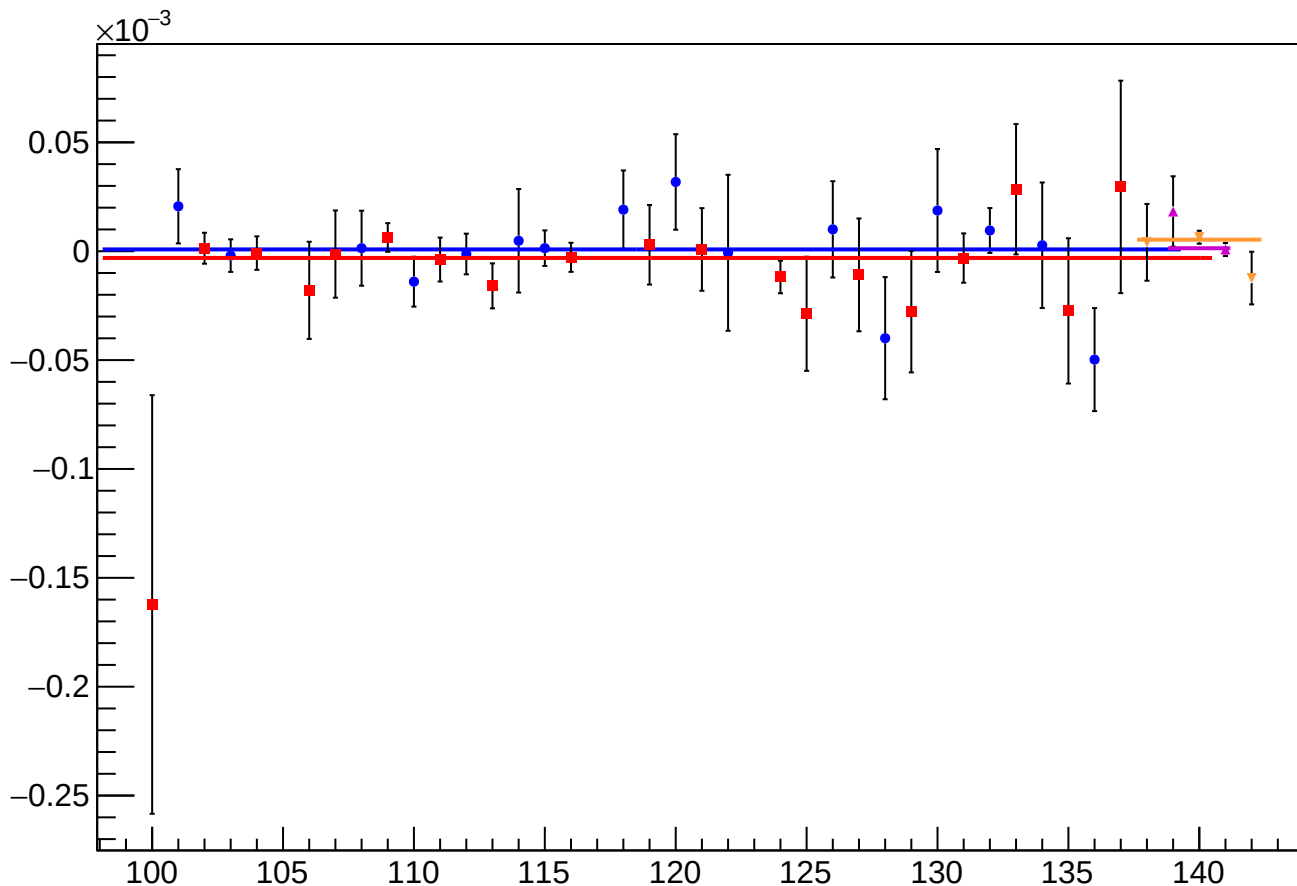
Right: 137.004 $\pm$ 0.029 χ^2 /NDF: 4680006.1/34

In: 155.279 $\pm$ 0.040 χ^2 /NDF:2182626.4/17

Out: 138.079 $\pm$ 0.037 χ^2 /NDF:4075628.8/21

All: 146.069 $\pm$ 0.027 χ^2 /NDF: 6356800.8/39

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.3/2

Right Out: -0.000+/-0.000 χ^2/NDF : 12.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 1.1/1

Left: 0.000+/-0.000 χ^2/NDF : 4.3/4

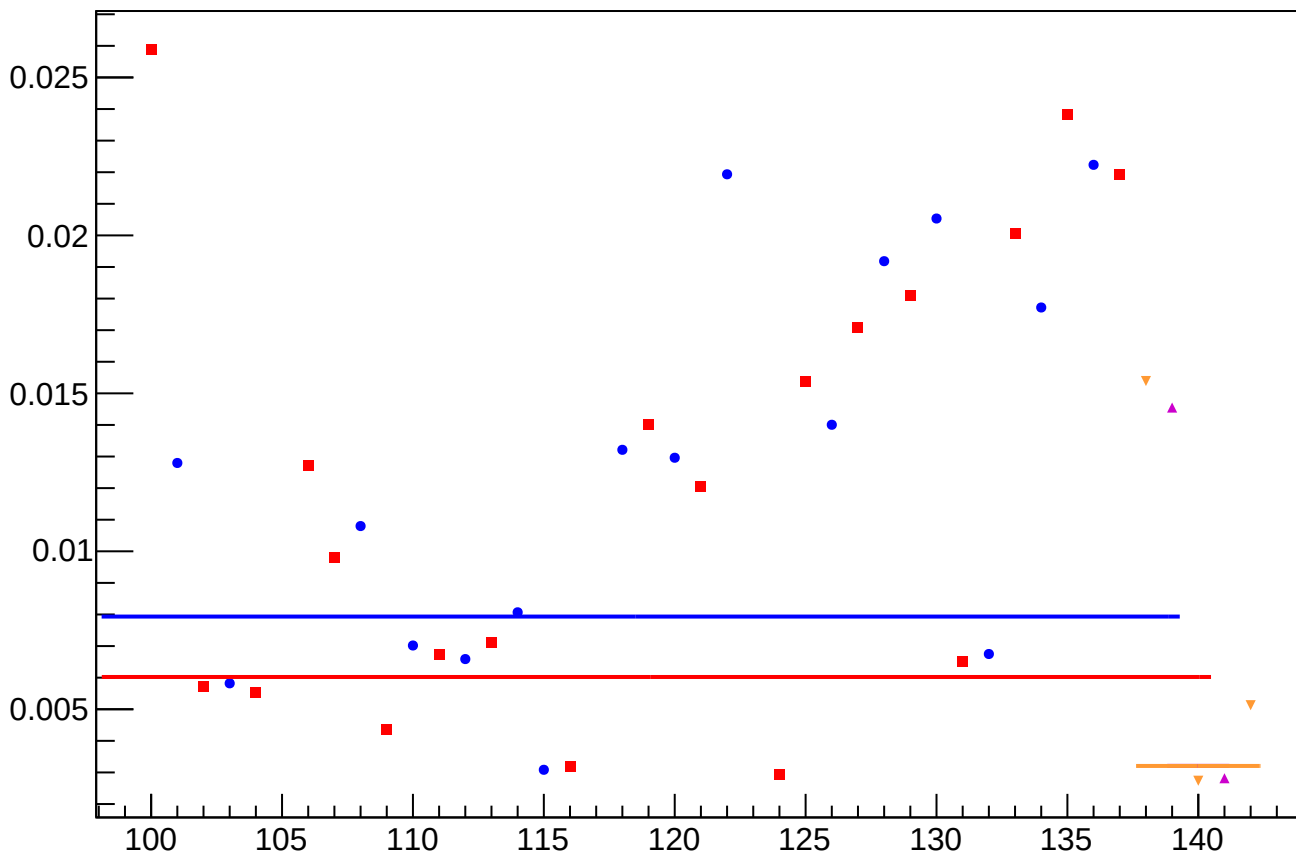
Right: -0.000+/-0.000 χ^2/NDF : 27.8/34

In: 0.000+/-0.000 χ^2/NDF : 15.4/17

Out: 0.000+/-0.000 χ^2/NDF : 19.6/21

All: 0.000+/-0.000 χ^2/NDF : 35.0/39

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000

χ^2/NDF : 3577687.8/15

Left Out: 0.003+/-0.000

χ^2/NDF : 1055435.5/2

Right Out: 0.006+/-0.000

χ^2/NDF : 4009592.0/18

Left In: 0.003+/-0.000

χ^2/NDF : 1019135.3/1

Left: 0.003+/-0.000

χ^2/NDF : 2074571.4/4

Right: 0.007+/-0.000

χ^2/NDF : 7973863.6/34

In: 0.005+/-0.000

χ^2/NDF : 6756741.5/17

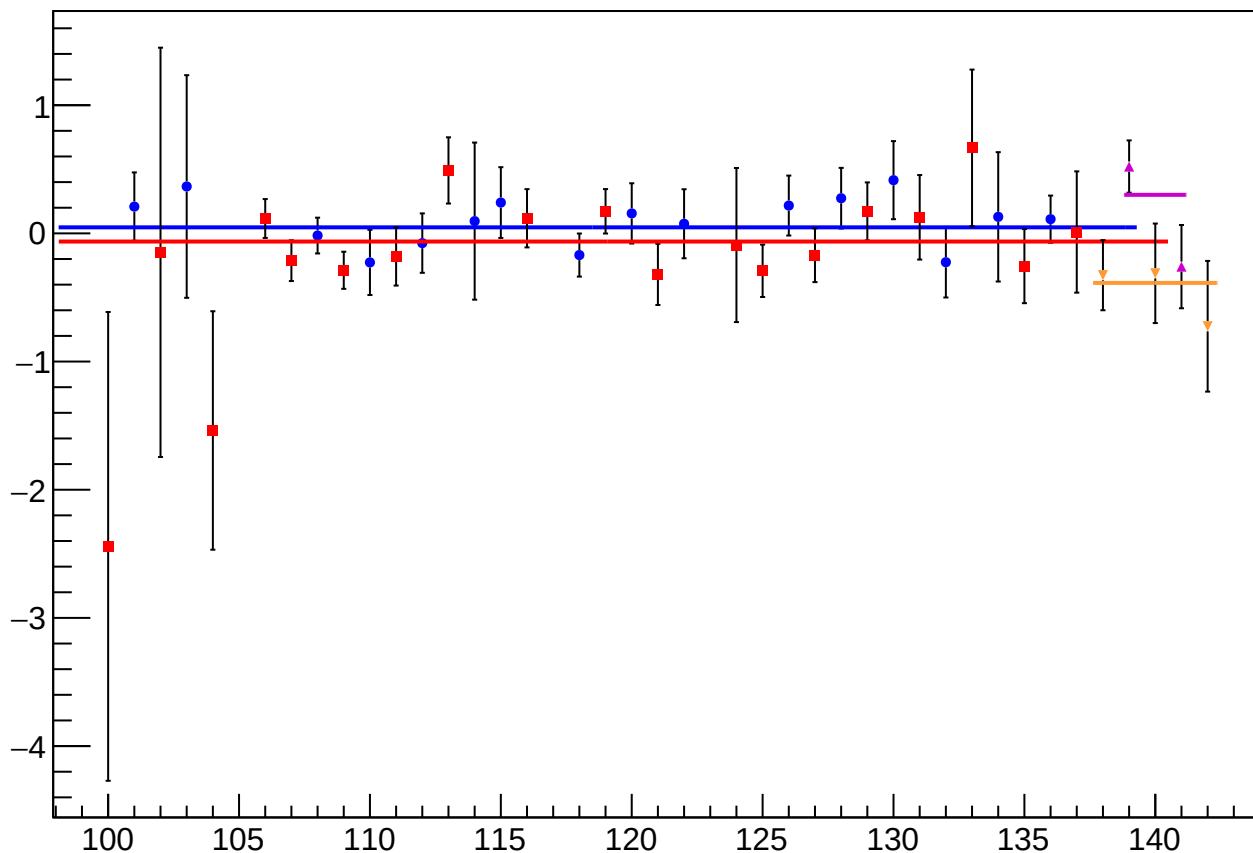
Out: 0.005+/-0.000

χ^2/NDF : 6113004.0/21

All: 0.005+/-0.000

χ^2/NDF : 12919125.9/39

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.047 ± 0.060 $\chi^2/\text{NDF}: 8.6/15$

Left Out: -0.386 ± 0.205 $\chi^2/\text{NDF}: 0.5/2$

Right Out: -0.064 ± 0.055 $\chi^2/\text{NDF}: 22.2/18$

Left In: 0.301 ± 0.173 $\chi^2/\text{NDF}: 4.1/1$

Left: 0.015 ± 0.132 $\chi^2/\text{NDF}: 11.2/4$

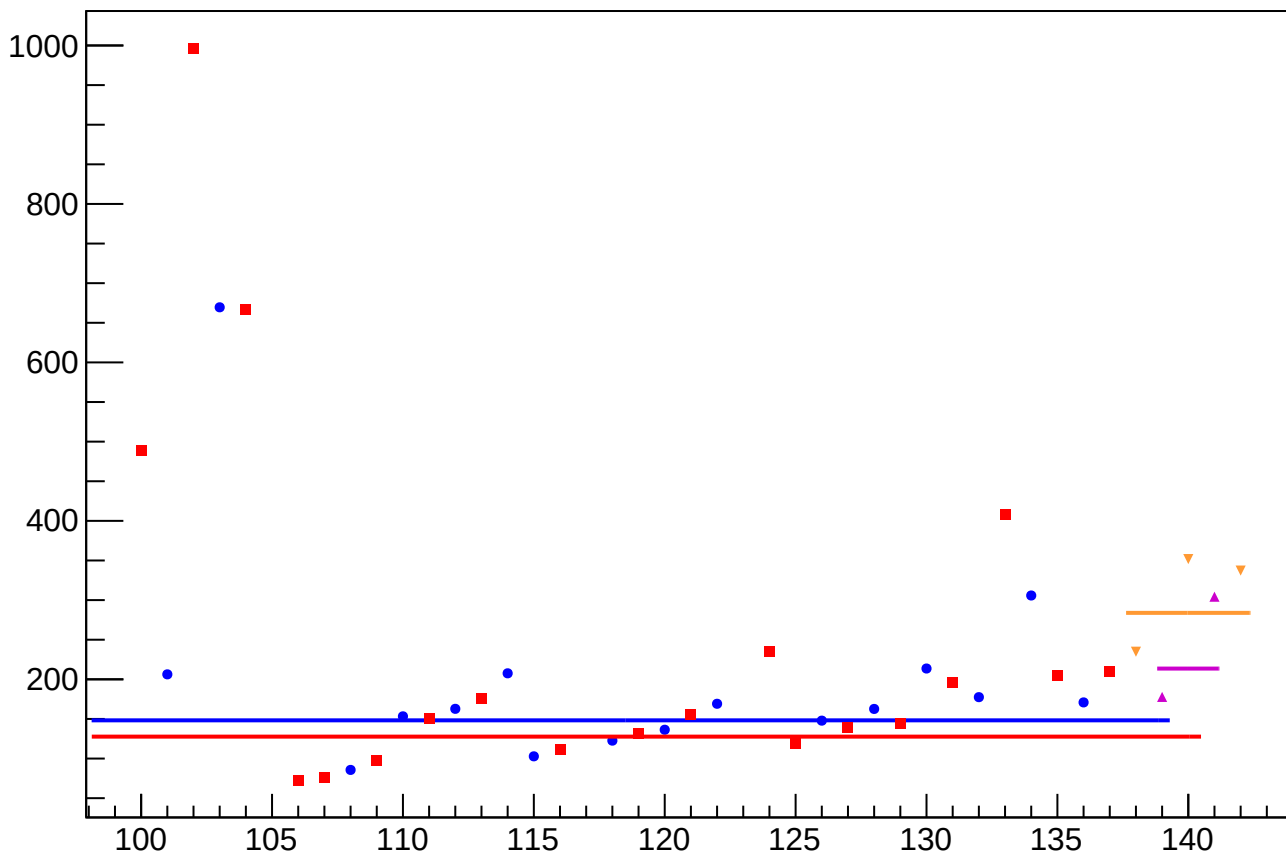
Right: -0.013 ± 0.040 $\chi^2/\text{NDF}: 32.7/34$

In: 0.074 ± 0.057 $\chi^2/\text{NDF}: 14.6/17$

Out: -0.085 ± 0.053 $\chi^2/\text{NDF}: 25.1/21$

All: -0.011 ± 0.039 $\chi^2/\text{NDF}: 43.9/39$

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 148.238+/-0.042 χ^2/NDF : 1710114.4/15

Left Out: 283.888+/-0.145 χ^2/NDF :147371.3/2

Right Out: 127.685+/-0.039 χ^2/NDF : 2841772.5/18

Left In: 213.567+/-0.122 χ^2/NDF :217362.6/1

Left: 242.805+/-0.093 χ^2/NDF : 502551.4/4

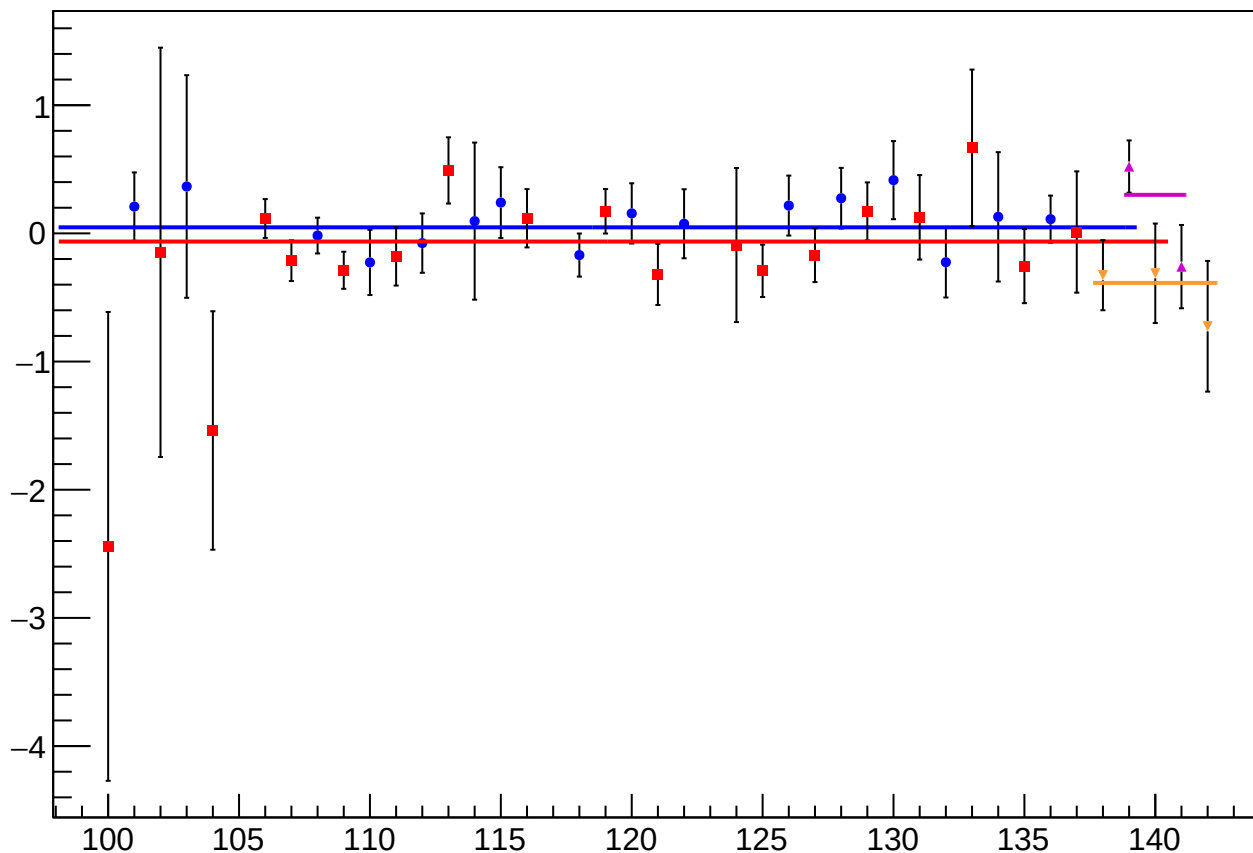
Right: 137.003+/-0.029 χ^2/NDF : 4680047.3/34

In: 155.277+/-0.040 χ^2/NDF :2182724.0/17

Out: 138.079+/-0.037 χ^2/NDF :4075629.0/21

All: 146.069+/-0.027 χ^2/NDF : 6356873.4/39

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.060 χ^2 /NDF: 8.6/15

Left Out: -0.386 $\pm$ 0.205 χ^2 /NDF:0.5/2

Right Out: -0.064 $\pm$ 0.055 χ^2 /NDF: 22.2/18

Left In: 0.301 $\pm$ 0.173 χ^2 /NDF:4.1/1

Left: 0.015 $\pm$ 0.132 χ^2 /NDF: 11.2/4

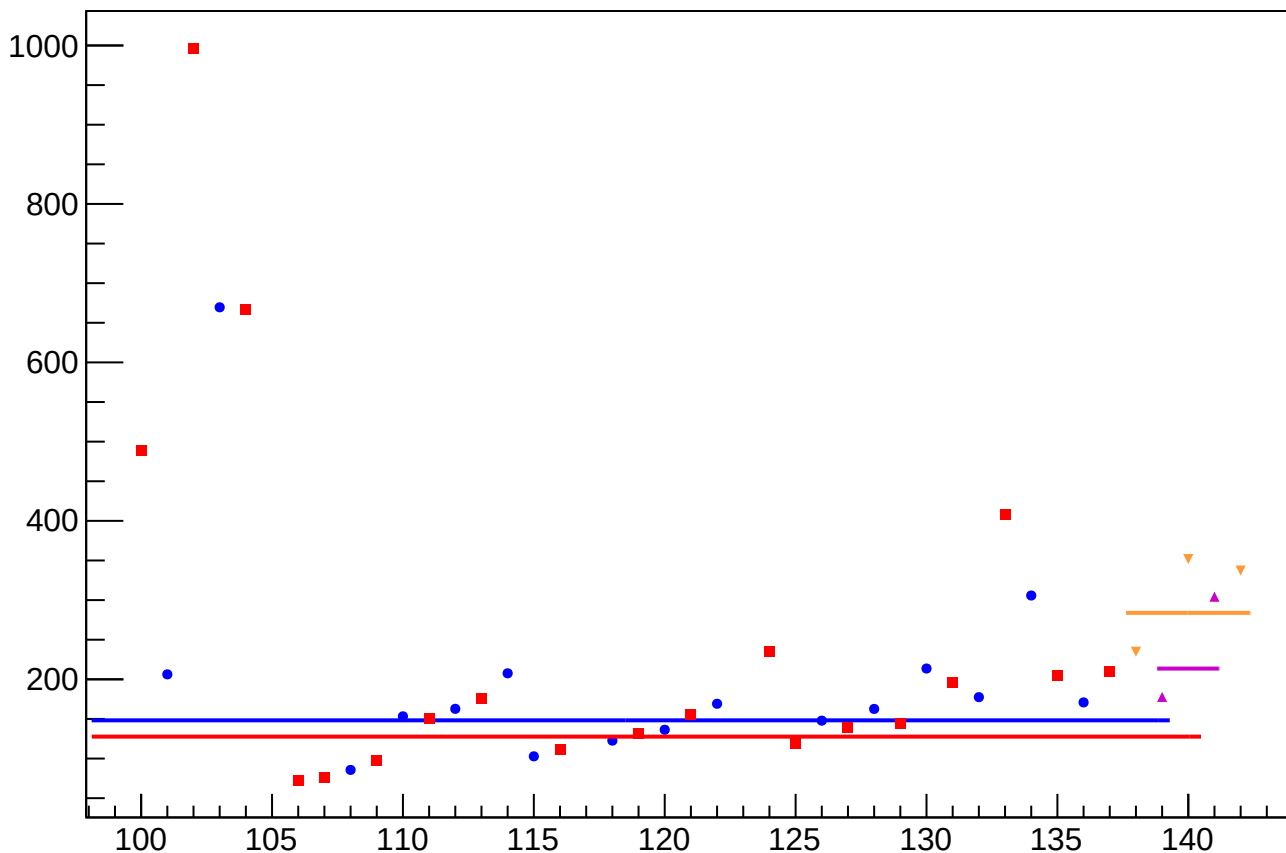
Right: -0.013 $\pm$ 0.040 χ^2 /NDF: 32.7/34

In: 0.074 $\pm$ 0.057 χ^2 /NDF:14.6/17

Out: -0.085 $\pm$ 0.053 χ^2 /NDF:25.1/21

All: -0.011 $\pm$ 0.039 χ^2 /NDF: 43.9/39

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 148.238+/-0.042 χ^2/NDF : 1710114.4/15

Left Out: 283.888+/-0.145 χ^2/NDF :147371.3/2

Right Out: 127.685+/-0.039 χ^2/NDF : 2841772.5/18

Left In: 213.567+/-0.122 χ^2/NDF :217362.6/1

Left: 242.805+/-0.093 χ^2/NDF : 502551.4/4

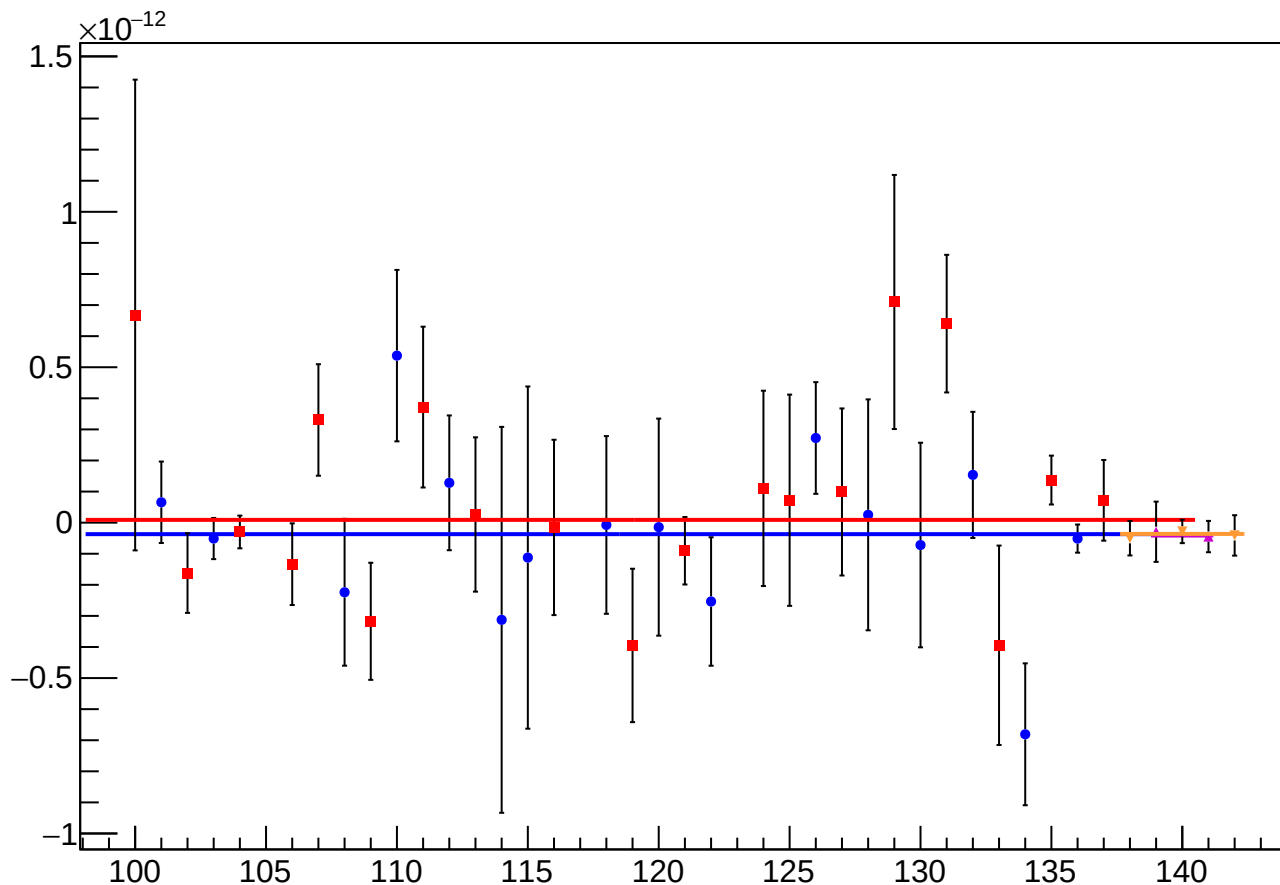
Right: 137.003+/-0.029 χ^2/NDF : 4680047.3/34

In: 155.277+/-0.040 χ^2/NDF :2182724.0/17

Out: 138.079+/-0.037 χ^2/NDF :4075629.0/21

All: 146.069+/-0.027 χ^2/NDF : 6356873.4/39

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 19.5/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 31.8/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 0.1/4

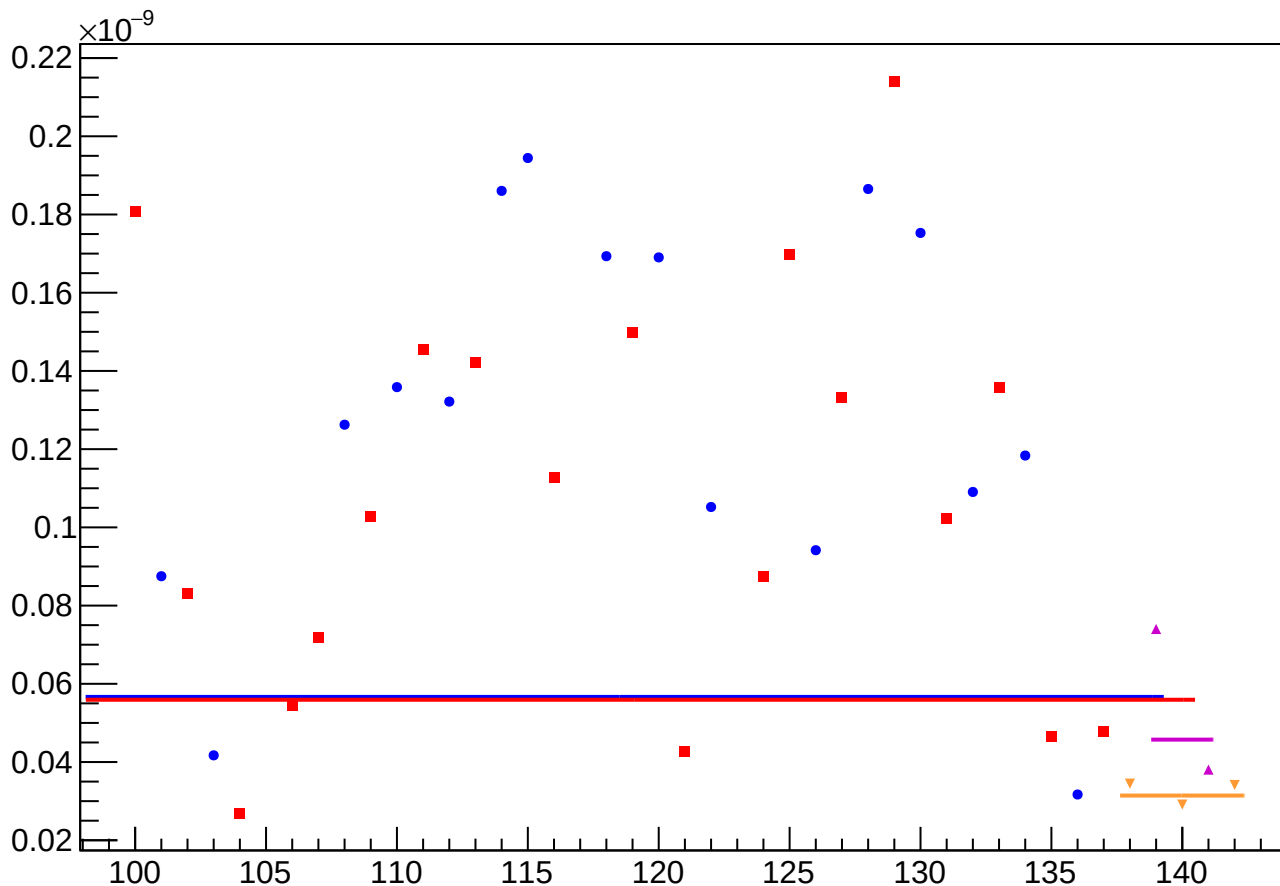
Right: -0.000+/-0.000 χ^2/NDF : 52.3/34

In: -0.000+/-0.000 χ^2/NDF : 19.5/17

Out: -0.000+/-0.000 χ^2/NDF : 33.0/21

All: -0.000+/-0.000 χ^2/NDF : 52.9/39

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3113213.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :17024.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2732977.9/18

Left In: 0.000+/-0.000 χ^2/NDF :216583.6/1

Left: 0.000+/-0.000 χ^2/NDF : 380129.3/4

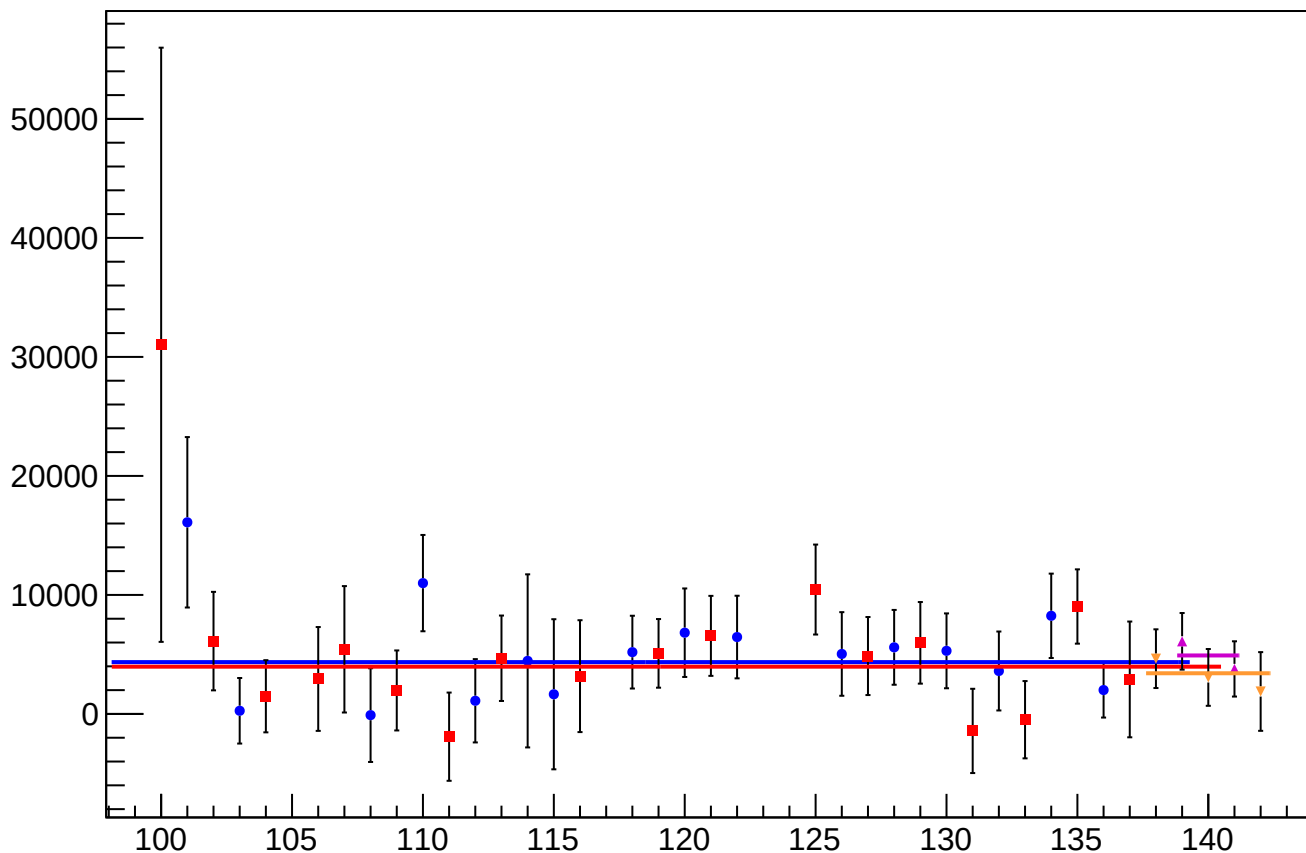
Right: 0.000+/-0.000 χ^2/NDF : 5846702.2/34

In: 0.000+/-0.000 χ^2/NDF :3408343.1/17

Out: 0.000+/-0.000 χ^2/NDF :3411895.4/21

All: 0.000+/-0.000 χ^2/NDF : 7029160.0/39

reg_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4354.350+/-875.155 χ^2/NDF : 13.4/15

Left Out: 3417.963+/-1522.613 χ^2/NDF : 0.5/2

Right Out: 3971.679+/-871.305 χ^2/NDF : 16.2/17

Left In: 4913.579+/-1661.827 χ^2/NDF : 0.5/1

Left: 4100.512+/-1122.645 χ^2/NDF : 1.4/4

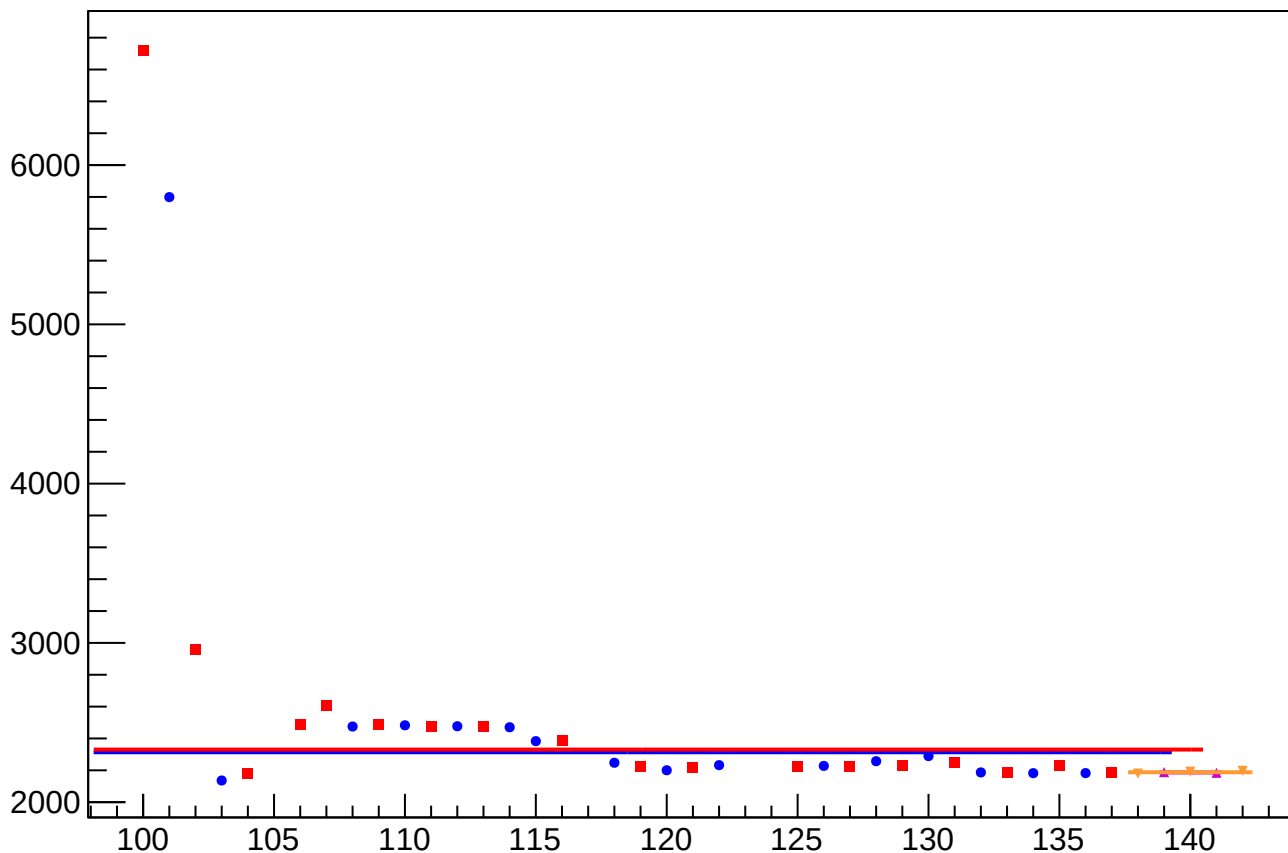
Right: 4162.171+/-617.462 χ^2/NDF : 29.6/33

In: 4475.768+/-774.343 χ^2/NDF : 13.9/17

Out: 3835.087+/-756.239 χ^2/NDF : 16.7/20

All: 4147.851+/-541.029 χ^2/NDF : 31.0/38

reg_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2313.413+/-0.619 χ^2/NDF : 512371.8/15

Left Out: 2187.865+/-1.077 χ^2/NDF : 42.5/2

Right Out: 2330.200+/-0.616 χ^2/NDF : 151210.5/17

Left In: 2186.585+/-1.175 χ^2/NDF : 2.9/1

Left: 2187.281+/-0.794 χ^2/NDF : 46.1/4

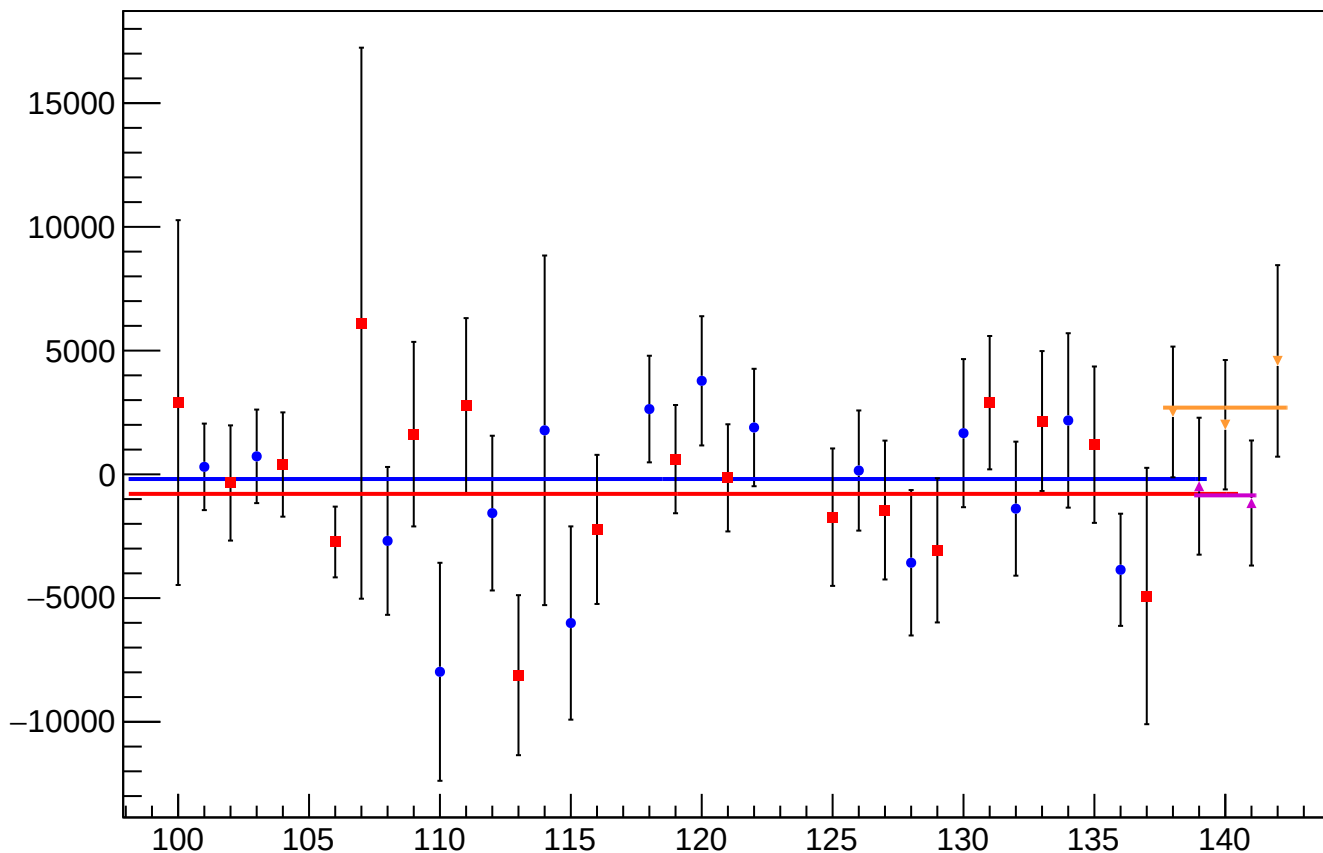
Right: 2321.844+/-0.437 χ^2/NDF : 663951.9/33

In: 2285.877+/-0.548 χ^2/NDF : 521494.6/17

Out: 2295.089+/-0.535 χ^2/NDF : 164419.1/20

All: 2290.592+/-0.383 χ^2/NDF : 686058.5/38

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -188.660 ± 658.334 χ^2/NDF : 16.4/15

Left Out: 2695.807 ± 1674.922 χ^2/NDF : 0.3/2

Right Out: -789.317 ± 634.900 χ^2/NDF : 14.9/17

Left In: -849.306 ± 1865.800 χ^2/NDF : 0.0/1

Left: 1113.812 ± 1246.386 χ^2/NDF : 2.3/4

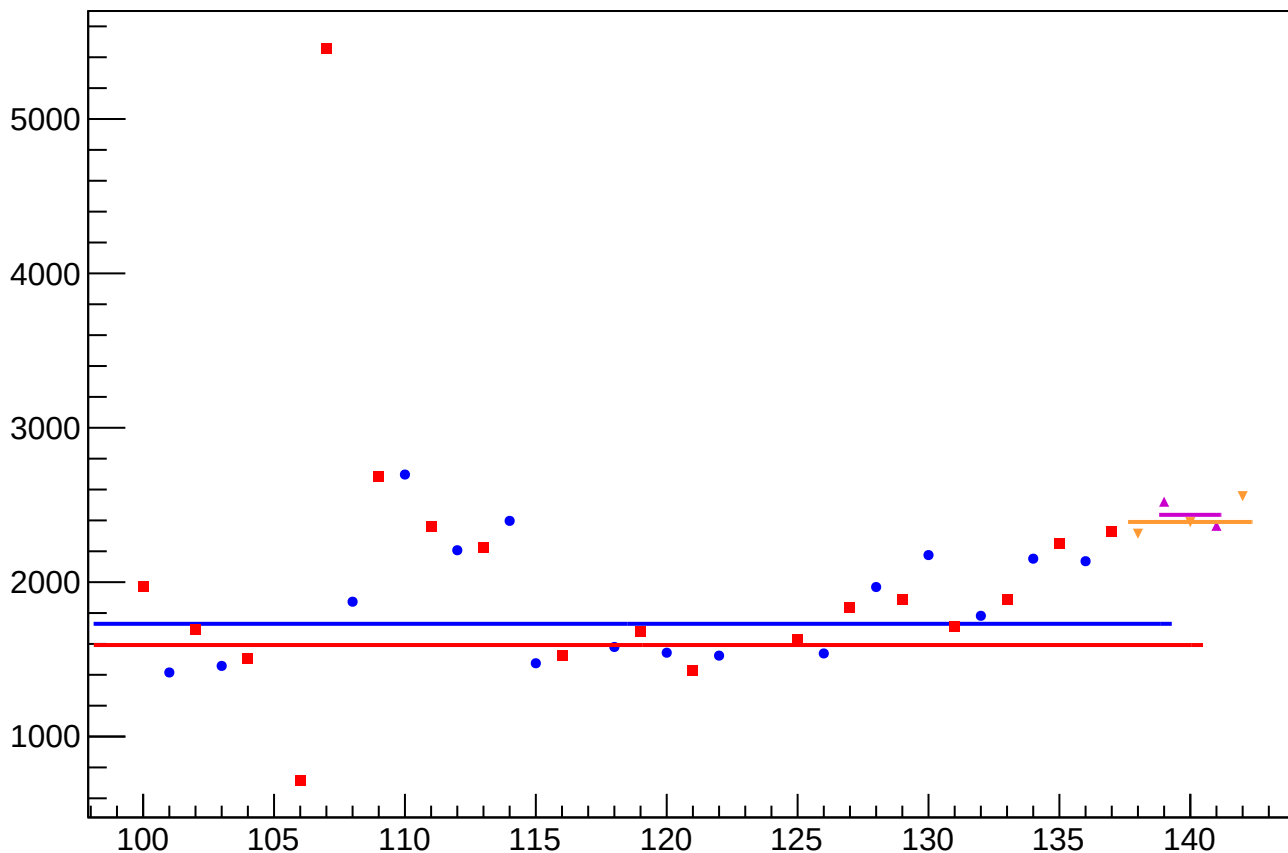
Right: -499.869 ± 457.002 χ^2/NDF : 31.8/33

In: -261.802 ± 620.822 χ^2/NDF : 16.6/17

Out: -351.460 ± 593.679 χ^2/NDF : 19.0/20

All: -308.634 ± 429.069 χ^2/NDF : 35.6/38

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1730.288+/-0.466 χ^2/NDF : 478932.0/15

Left Out: 2390.003+/-1.184 χ^2/NDF : 5381.6/2

Right Out: 1592.824+/-0.449 χ^2/NDF : 1556204.8/17

Left In: 2436.140+/-1.319 χ^2/NDF : 3471.0/1

Left: 2410.591+/-0.881 χ^2/NDF : 9529.8/4

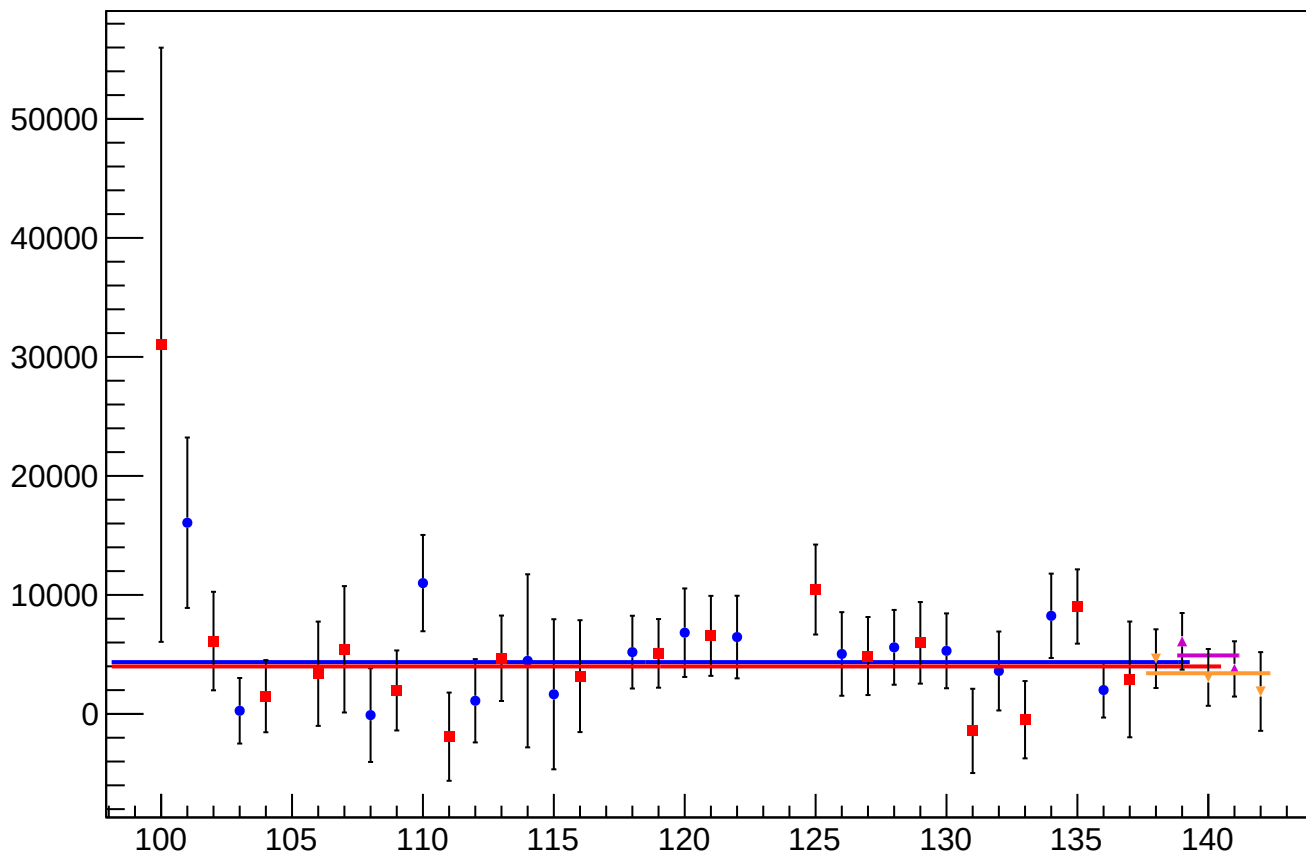
Right: 1659.066+/-0.323 χ^2/NDF : 2080315.9/33

In: 1808.436+/-0.439 χ^2/NDF : 736950.6/17

Out: 1692.978+/-0.420 χ^2/NDF : 1957722.5/20

All: 1748.128+/-0.303 χ^2/NDF : 2730804.9/38

cor_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4353.670+/-875.155 χ^2/NDF : 13.4/15

Left Out: 3418.006+/-1522.613 χ^2/NDF : 0.5/2

Right Out: 3989.884+/-871.455 χ^2/NDF : 16.1/17

Left In: 4914.143+/-1661.827 χ^2/NDF : 0.5/1

Left: 4100.793+/-1122.645 χ^2/NDF : 1.4/4

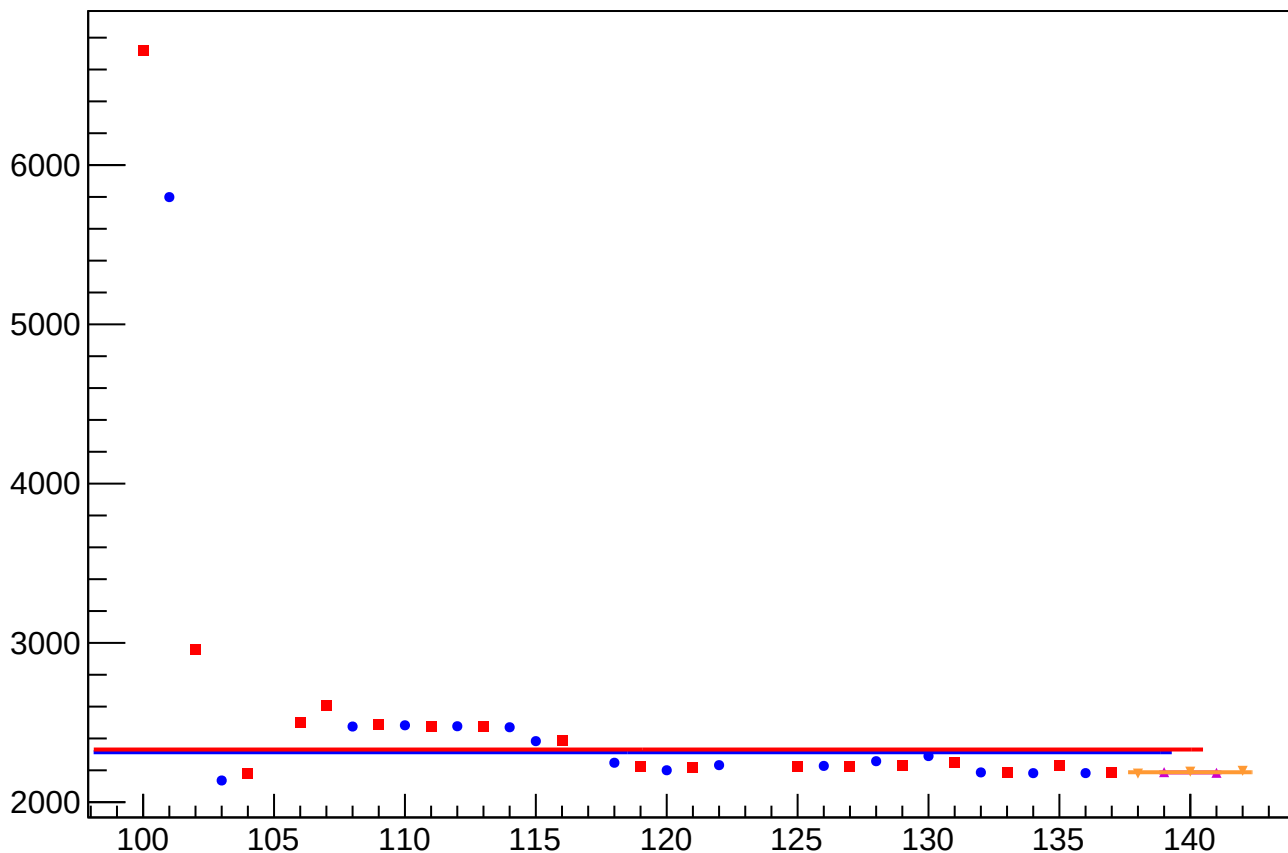
Right: 4171.006+/-617.516 χ^2/NDF : 29.6/33

In: 4475.359+/-774.343 χ^2/NDF : 13.9/17

Out: 3848.775+/-756.337 χ^2/NDF : 16.7/20

All: 4154.697+/-541.065 χ^2/NDF : 31.0/38

cor_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2313.413+/-0.619 χ^2/NDF : 512372.3/15

Left Out: 2187.865+/-1.077 χ^2/NDF :42.5/2

Right Out: 2330.570+/-0.616 χ^2/NDF : 151556.6/17

Left In: 2186.585+/-1.175 χ^2/NDF :2.9/1

Left: 2187.281+/-0.794 χ^2/NDF : 46.1/4

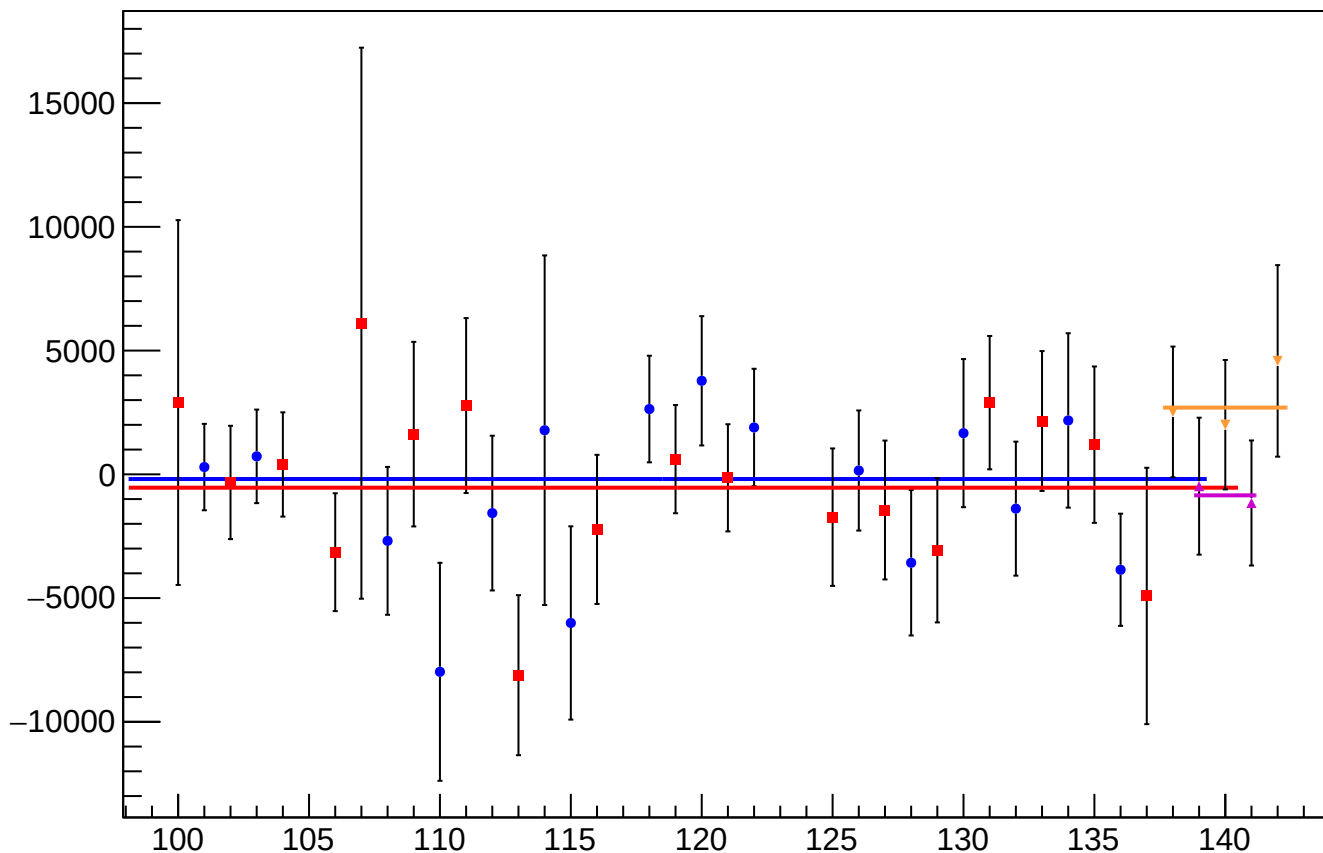
Right: 2322.028+/-0.437 χ^2/NDF : 664314.8/33

In: 2285.876+/-0.548 χ^2/NDF :521495.0/17

Out: 2295.358+/-0.535 χ^2/NDF :164832.4/20

All: 2290.729+/-0.383 χ^2/NDF : 686480.9/38

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -189.762 $\pm$ 658.205 χ^2 /NDF: 16.4/15

Left Out: 2695.810 $\pm$ 1674.916 χ^2 /NDF:0.3/2

Right Out: -539.517 $\pm$ 678.214 χ^2 /NDF: 13.9/17

Left In: -849.383 $\pm$ 1865.803 χ^2 /NDF:0.0/1

Left: 1113.788 $\pm$ 1246.385 χ^2 /NDF: 2.3/4

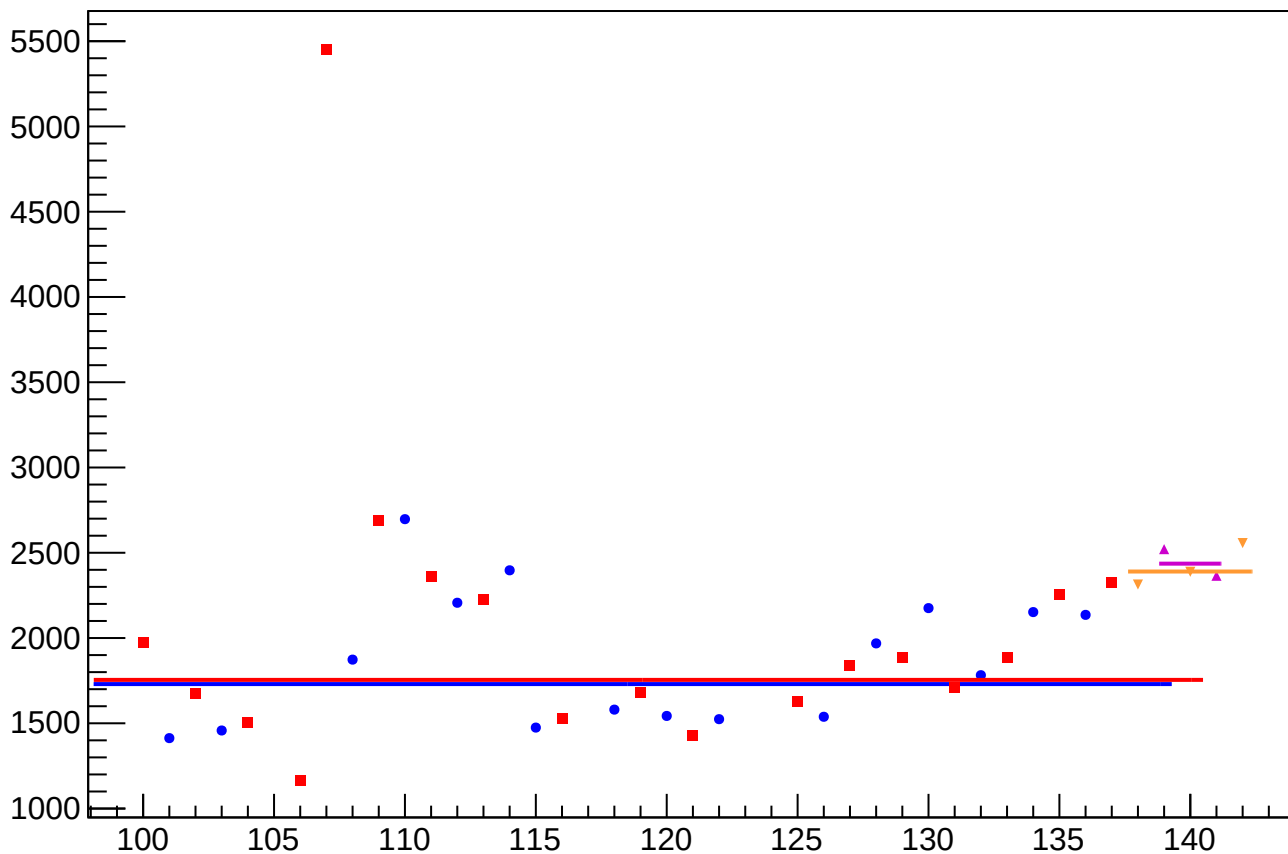
Right: -359.404 $\pm$ 472.337 χ^2 /NDF: 30.5/33

In: -262.766 $\pm$ 620.714 χ^2 /NDF:16.6/17

Out: -83.767 $\pm$ 628.633 χ^2 /NDF:17.4/20

All: -174.401 $\pm$ 441.684 χ^2 /NDF: 34.0/38

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1729.898 $\pm$ 0.465 χ^2 /NDF: 479898.2/15

Left Out: 2389.994 $\pm$ 1.184 χ^2 /NDF:5380.2/2

Right Out: 1754.526 $\pm$ 0.480 χ^2 /NDF: 751010.0/17

Left In: 2436.142 $\pm$ 1.319 χ^2 /NDF:3472.2/1

Left: 2410.587 $\pm$ 0.881 χ^2 /NDF: 9529.9/4

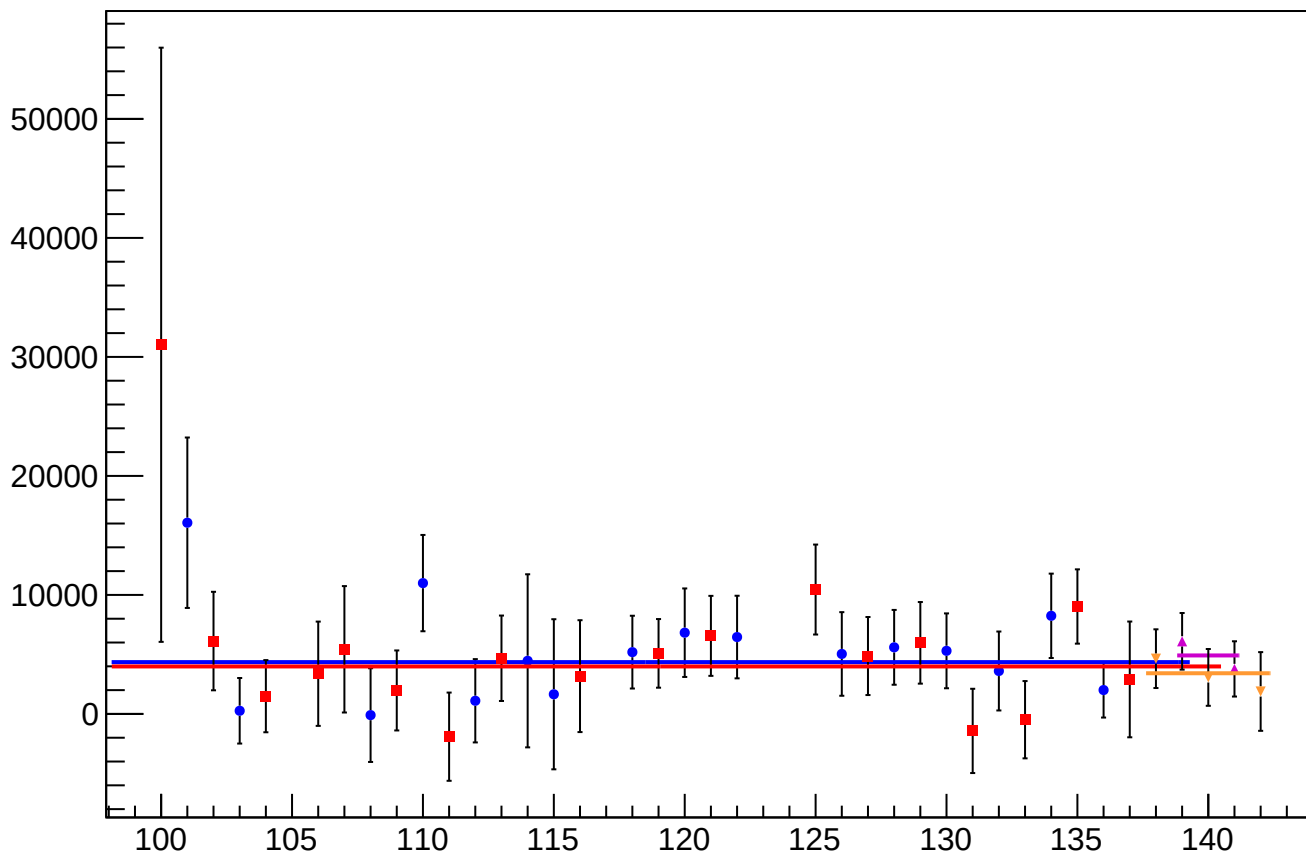
Right: 1741.844 $\pm$ 0.334 χ^2 /NDF: 1232266.3/33

In: 1808.062 $\pm$ 0.439 χ^2 /NDF:738210.4/17

Out: 1844.043 $\pm$ 0.445 χ^2 /NDF:1003728.2/20

All: 1825.824 $\pm$ 0.312 χ^2 /NDF: 1745256.2/38

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4353.670+/-875.155 χ^2/NDF : 13.4/15

Left Out: 3418.006+/-1522.613 χ^2/NDF : 0.5/2

Right Out: 3989.884+/-871.455 χ^2/NDF : 16.1/17

Left In: 4914.143+/-1661.827 χ^2/NDF : 0.5/1

Left: 4100.793+/-1122.645 χ^2/NDF : 1.4/4

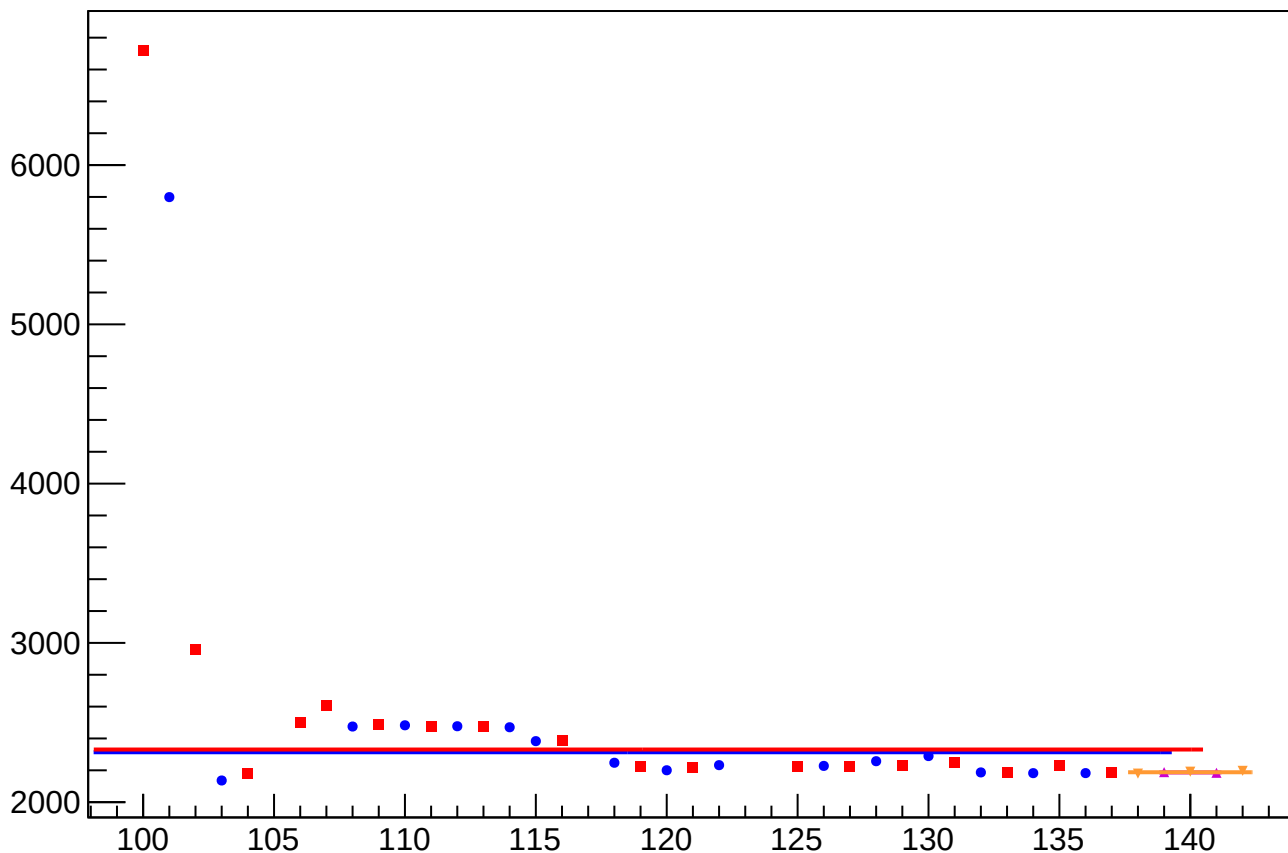
Right: 4171.006+/-617.516 χ^2/NDF : 29.6/33

In: 4475.359+/-774.343 χ^2/NDF : 13.9/17

Out: 3848.775+/-756.337 χ^2/NDF : 16.7/20

All: 4154.697+/-541.065 χ^2/NDF : 31.0/38

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2313.413+/-0.619 χ^2/NDF : 512372.3/15

Left Out: 2187.865+/-1.077 χ^2/NDF : 42.5/2

Right Out: 2330.570+/-0.616 χ^2/NDF : 151556.6/17

Left In: 2186.585+/-1.175 χ^2/NDF : 2.9/1

Left: 2187.281+/-0.794 χ^2/NDF : 46.1/4

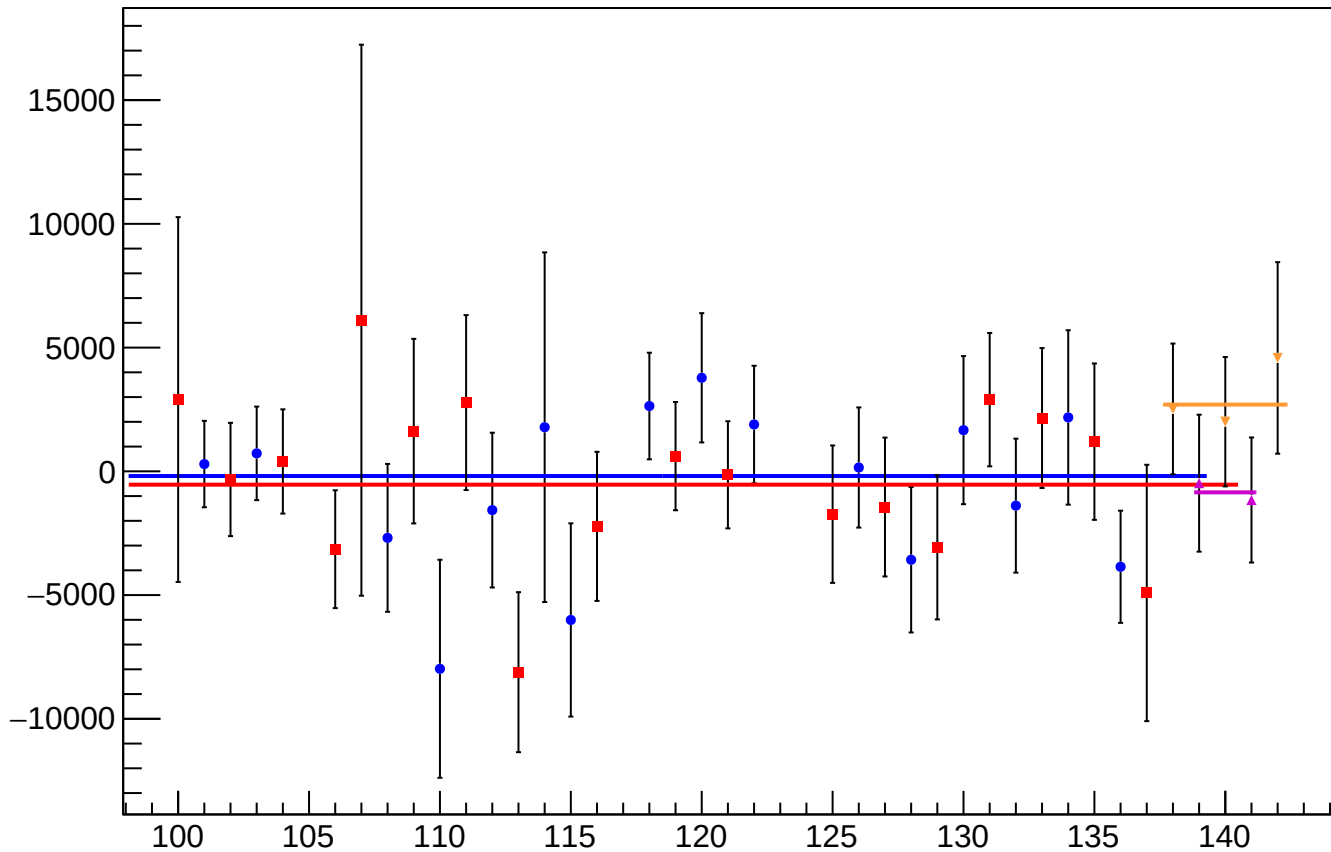
Right: 2322.028+/-0.437 χ^2/NDF : 664314.8/33

In: 2285.876+/-0.548 χ^2/NDF : 521495.0/17

Out: 2295.358+/-0.535 χ^2/NDF : 164832.4/20

All: 2290.729+/-0.383 χ^2/NDF : 686480.9/38

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -189.762 $\pm$ 658.205 χ^2 /NDF: 16.4/15

Left Out: 2695.810 $\pm$ 1674.916 χ^2 /NDF:0.3/2

Right Out: -539.517 $\pm$ 678.214 χ^2 /NDF: 13.9/17

Left In: -849.383 $\pm$ 1865.803 χ^2 /NDF:0.0/1

Left: 1113.788 $\pm$ 1246.385 χ^2 /NDF: 2.3/4

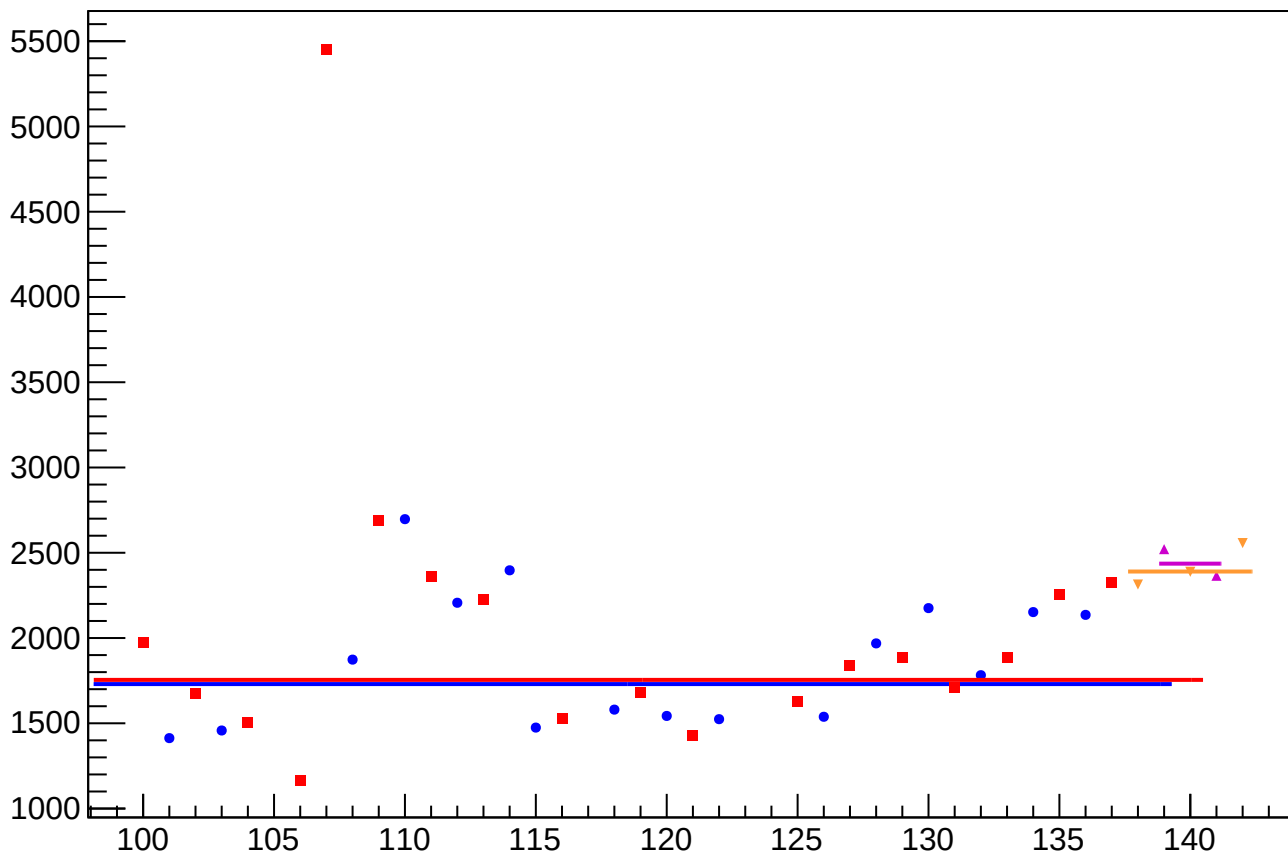
Right: -359.404 $\pm$ 472.337 χ^2 /NDF: 30.5/33

In: -262.766 $\pm$ 620.714 χ^2 /NDF:16.6/17

Out: -83.767 $\pm$ 628.633 χ^2 /NDF:17.4/20

All: -174.401 $\pm$ 441.684 χ^2 /NDF: 34.0/38

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1729.898 $\pm$ 0.465 χ^2 /NDF: 479898.2/15

Left Out: 2389.994 $\pm$ 1.184 χ^2 /NDF:5380.2/2

Right Out: 1754.526 $\pm$ 0.480 χ^2 /NDF: 751010.0/17

Left In: 2436.142 $\pm$ 1.319 χ^2 /NDF:3472.2/1

Left: 2410.587 $\pm$ 0.881 χ^2 /NDF: 9529.9/4

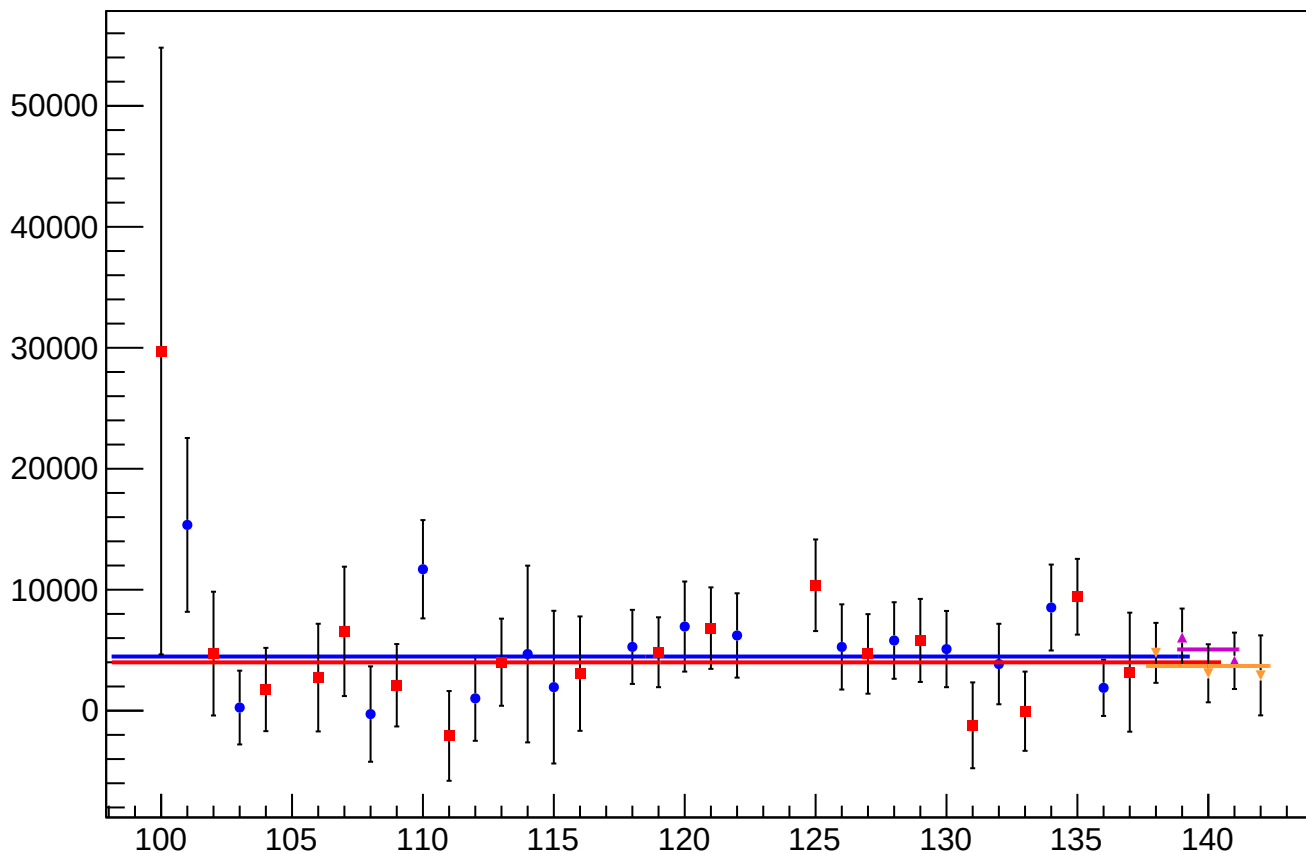
Right: 1741.844 $\pm$ 0.334 χ^2 /NDF: 1232266.3/33

In: 1808.062 $\pm$ 0.439 χ^2 /NDF:738210.4/17

Out: 1844.043 $\pm$ 0.445 χ^2 /NDF:1003728.2/20

All: 1825.824 $\pm$ 0.312 χ^2 /NDF: 1745256.2/38

dit_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4476.431+/-886.087 χ^2/NDF : 13.5/15

Left Out: 3696.761+/-1528.781 χ^2/NDF : 0.3/2

Right Out: 3995.807+/-890.441 χ^2/NDF : 15.5/17

Left In: 5062.663+/-1668.505 χ^2/NDF : 0.3/1

Left: 4320.135+/-1127.177 χ^2/NDF : 1.0/4

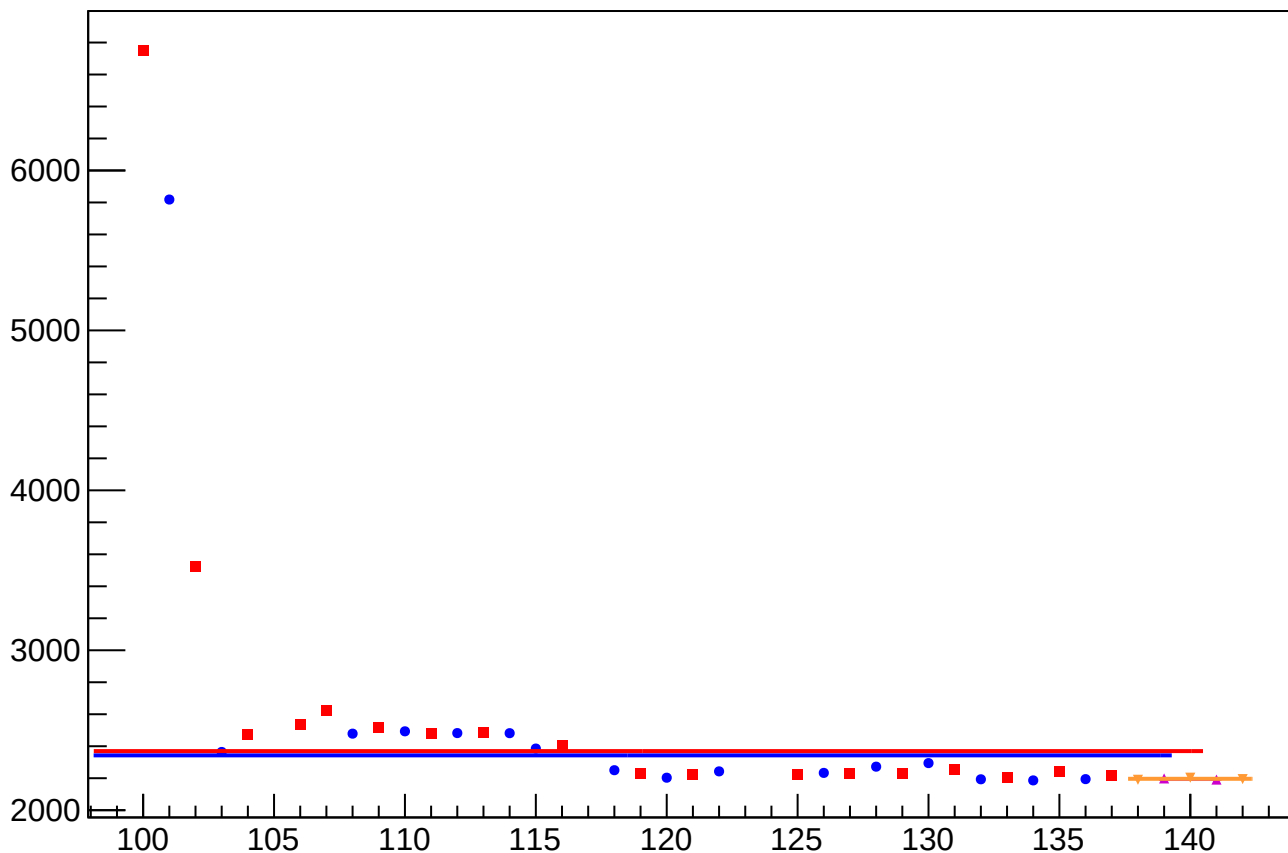
Right: 4237.297+/-628.092 χ^2/NDF : 29.2/33

In: 4605.395+/-782.577 χ^2/NDF : 14.0/17

Out: 3920.054+/-769.439 χ^2/NDF : 15.8/20

All: 4256.924+/-548.662 χ^2/NDF : 30.2/38

dit_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2342.914 $\pm$ 0.627 χ^2 /NDF: 502866.3/15

Left Out: 2196.327 $\pm$ 1.081 χ^2 /NDF:29.7/2

Right Out: 2369.572 $\pm$ 0.630 χ^2 /NDF: 210147.5/17

Left In: 2194.994 $\pm$ 1.180 χ^2 /NDF:9.6/1

Left: 2195.719 $\pm$ 0.797 χ^2 /NDF: 40.0/4

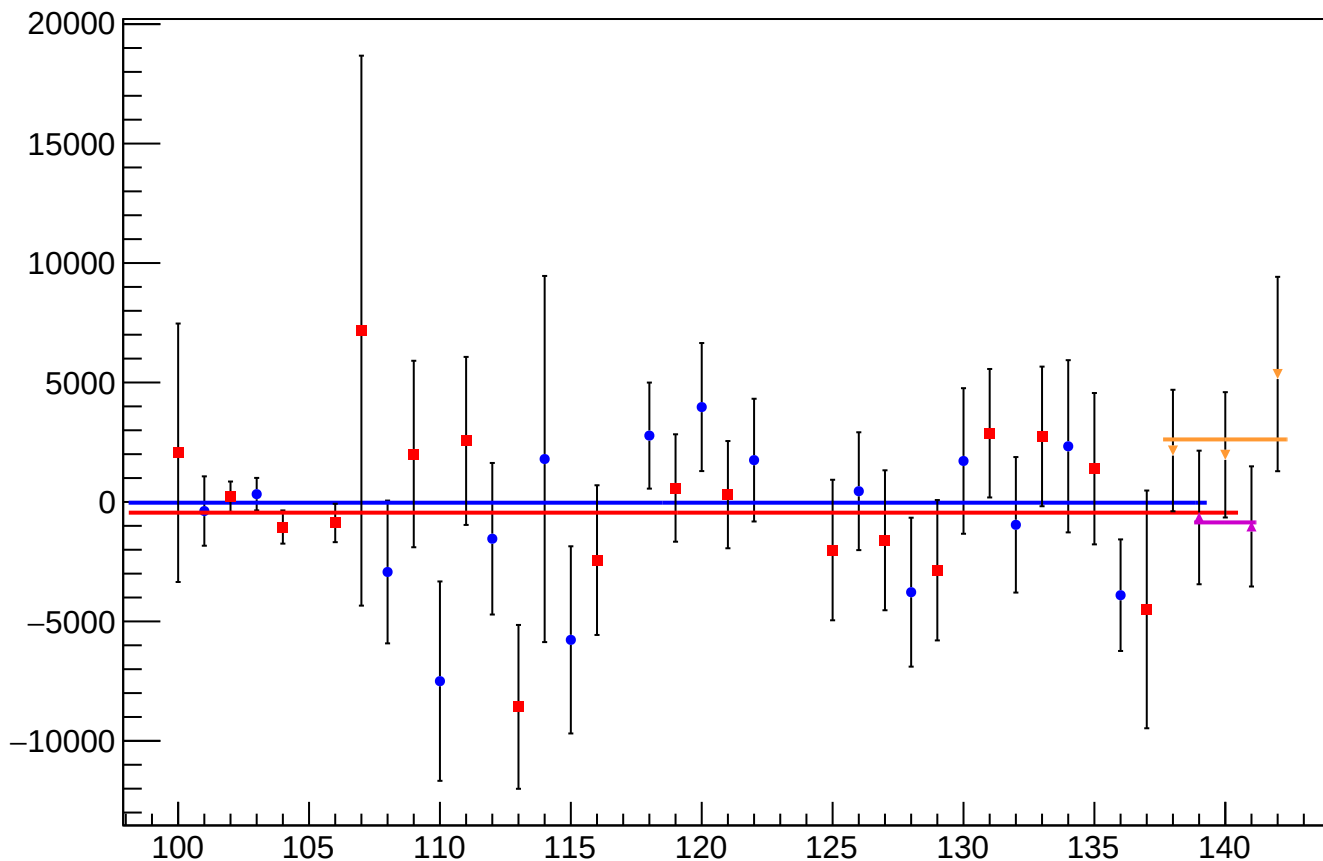
Right: 2356.178 $\pm$ 0.444 χ^2 /NDF: 713914.5/33

In: 2310.373 $\pm$ 0.553 χ^2 /NDF:515137.0/17

Out: 2325.687 $\pm$ 0.544 χ^2 /NDF:229355.1/20

All: 2318.160 $\pm$ 0.388 χ^2 /NDF: 744881.5/38

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -31.393 ± 485.329 $\chi^2/\text{NDF}: 16.3/15$

Left Out: 2616.717 ± 1665.385 $\chi^2/\text{NDF}: 0.5/2$

Right Out: -448.261 ± 362.570 $\chi^2/\text{NDF}: 15.1/17$

Left In: -856.449 ± 1869.678 $\chi^2/\text{NDF}: 0.0/1$

Left: 1080.182 ± 1243.585 $\chi^2/\text{NDF}: 2.5/4$

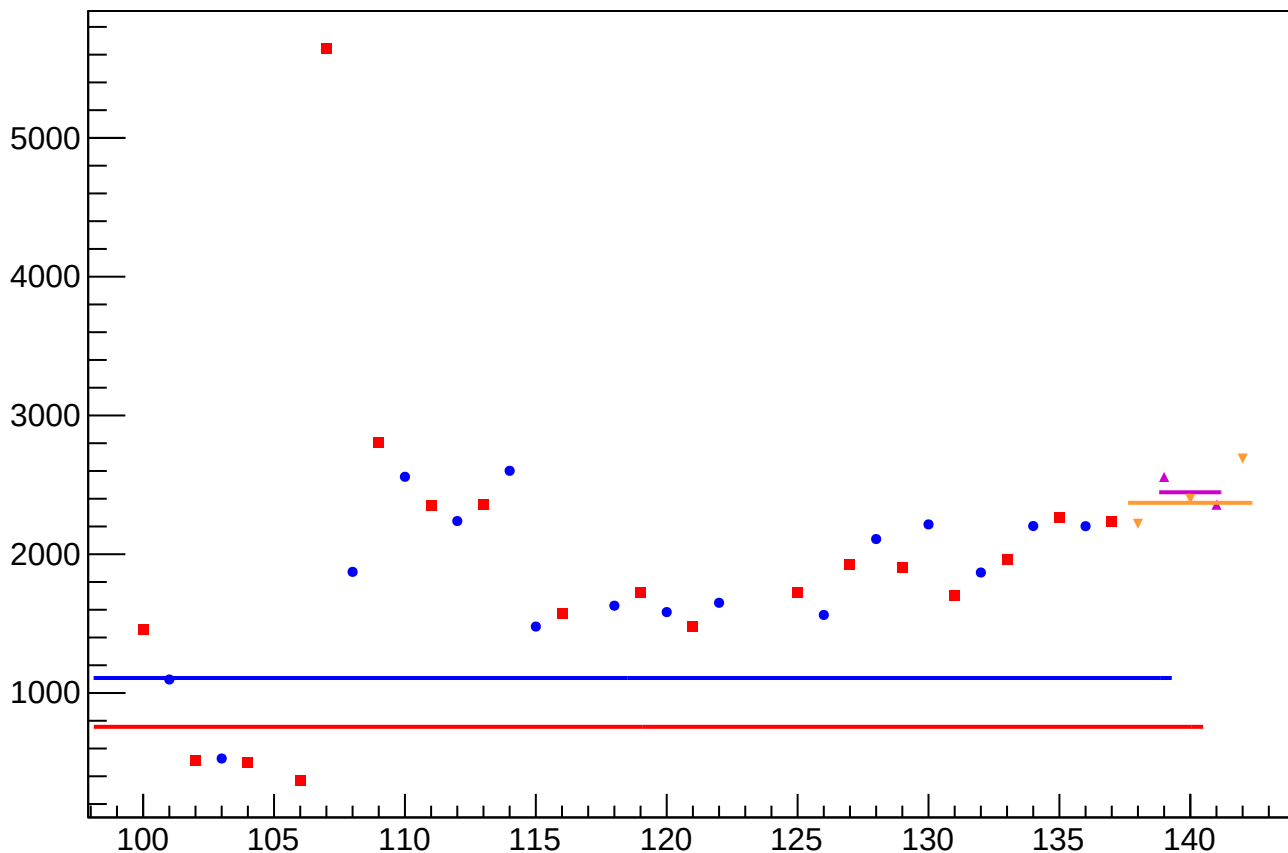
Right: -298.942 ± 290.465 $\chi^2/\text{NDF}: 31.9/33$

In: -83.477 ± 469.760 $\chi^2/\text{NDF}: 16.5/17$

Out: -309.563 ± 354.272 $\chi^2/\text{NDF}: 18.9/20$

All: -227.596 ± 282.852 $\chi^2/\text{NDF}: 35.5/38$

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1108.139 $\pm$ 0.343 χ^2/NDF : 3746477.0/15

Left Out: 2370.622 $\pm$ 1.178 χ^2/NDF :19595.7/2

Right Out: 756.419 $\pm$ 0.256 χ^2/NDF : 5603215.5/17

Left In: 2446.479 $\pm$ 1.322 χ^2/NDF :5679.4/1

Left: 2404.181 $\pm$ 0.879 χ^2/NDF : 27110.8/4

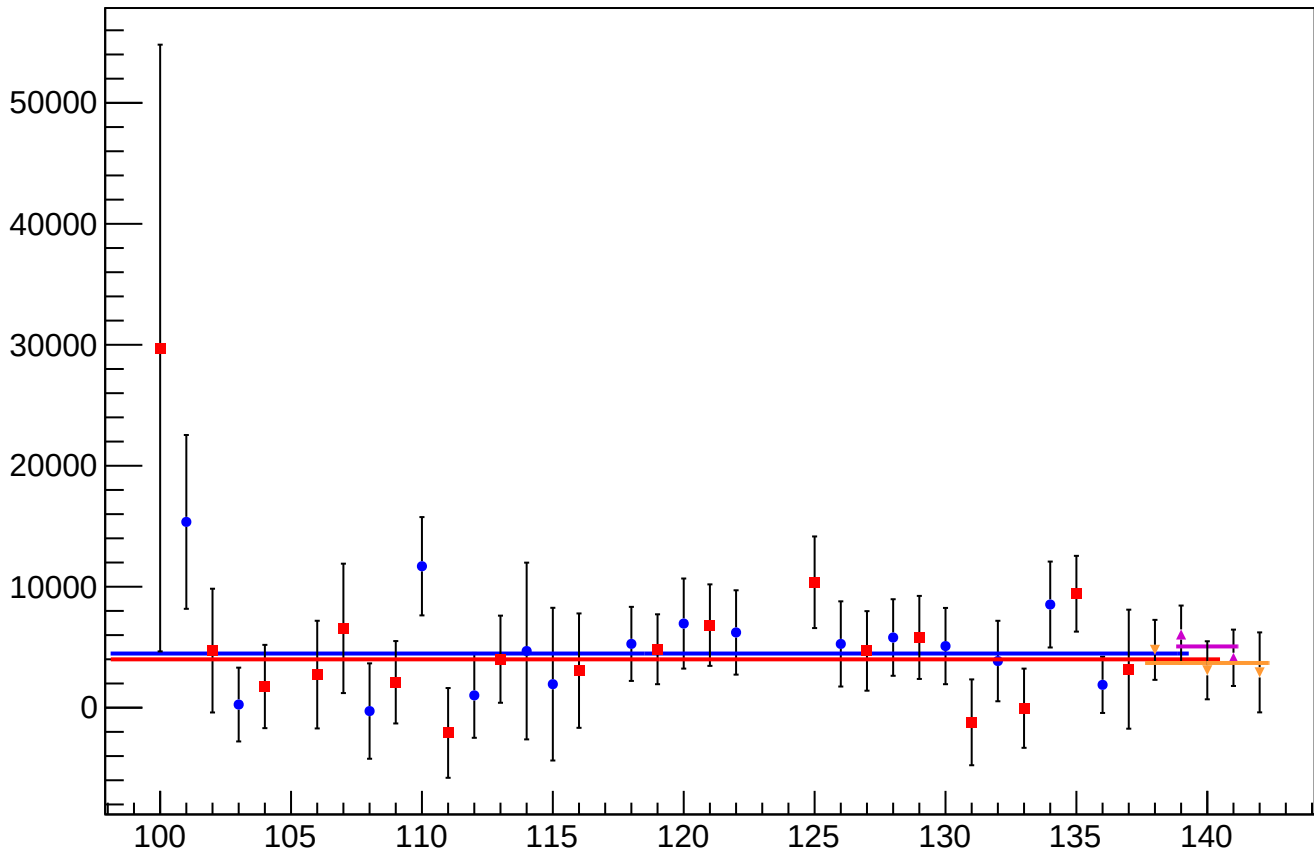
Right: 882.403 $\pm$ 0.205 χ^2/NDF : 10023844.2/33

In: 1192.625 $\pm$ 0.332 χ^2/NDF :4712241.1/17

Out: 829.466 $\pm$ 0.251 χ^2/NDF :7416742.1/20

All: 961.129 $\pm$ 0.200 χ^2/NDF : 12890920.3/38

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4476.427 $\pm$ 886.086 χ^2 /NDF: 13.5/15

Left Out: 3696.766 $\pm$ 1528.781 χ^2 /NDF:0.3/2

Right Out: 3995.803 $\pm$ 890.441 χ^2 /NDF: 15.5/17

Left In: 5062.660 $\pm$ 1668.505 χ^2 /NDF:0.3/1

Left: 4320.136 $\pm$ 1127.177 χ^2 /NDF: 1.0/4

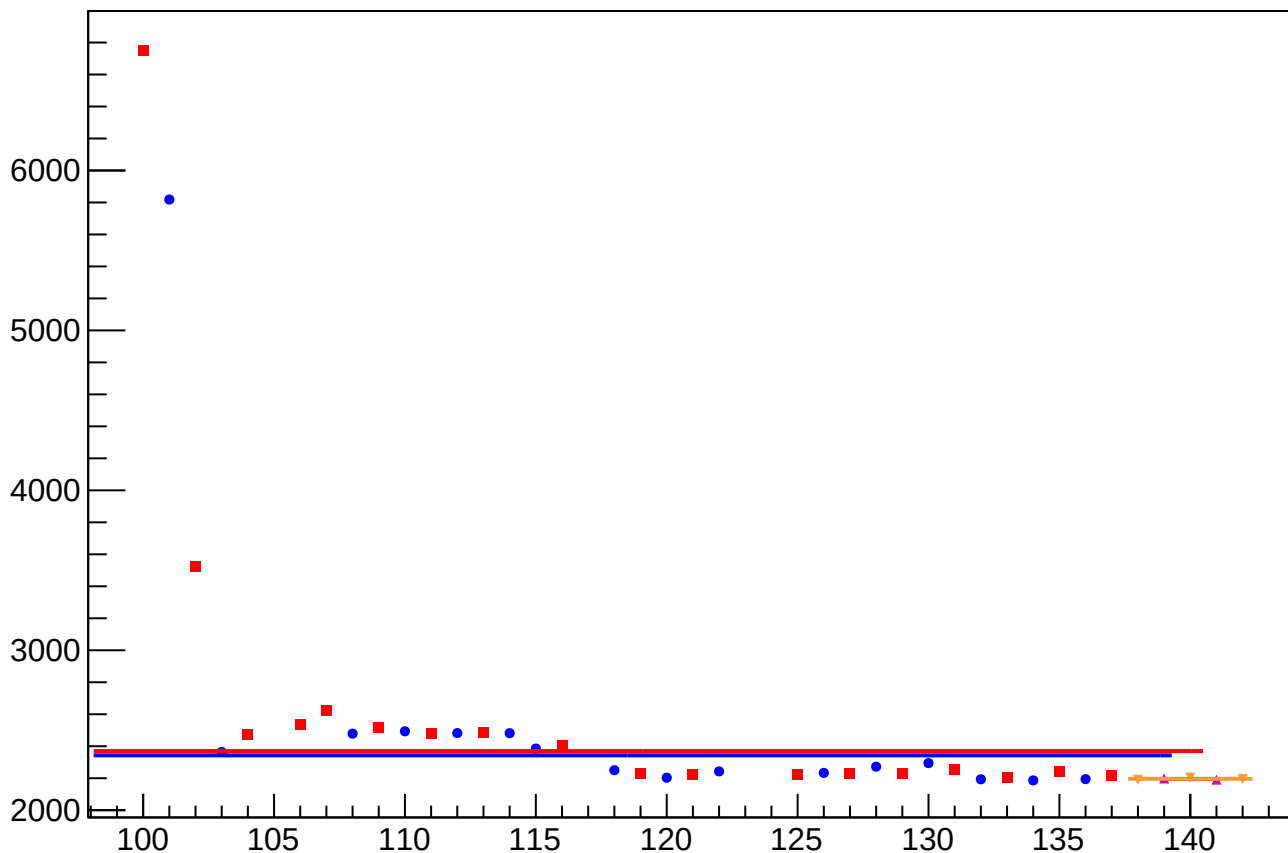
Right: 4237.293 $\pm$ 628.092 χ^2 /NDF: 29.2/33

In: 4605.391 $\pm$ 782.577 χ^2 /NDF:14.0/17

Out: 3920.053 $\pm$ 769.439 χ^2 /NDF:15.8/20

All: 4256.921 $\pm$ 548.661 χ^2 /NDF: 30.2/38

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2342.913+/-0.627 χ^2/NDF : 502866.3/15

Left Out: 2196.327+/-1.081 χ^2/NDF : 29.7/2

Right Out: 2369.572+/-0.630 χ^2/NDF : 210146.5/17

Left In: 2194.994+/-1.180 χ^2/NDF : 9.6/1

Left: 2195.719+/-0.797 χ^2/NDF : 40.0/4

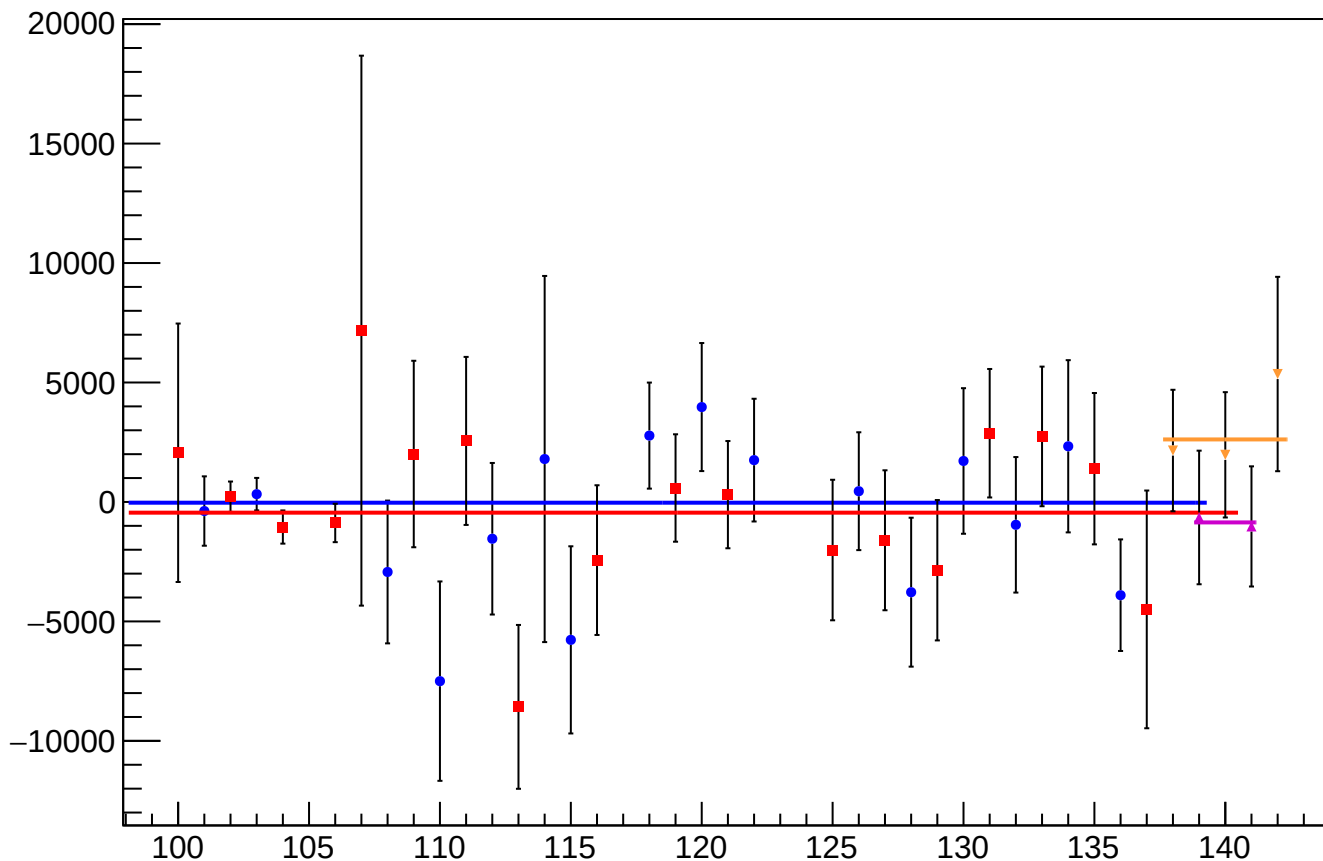
Right: 2356.177+/-0.444 χ^2/NDF : 713913.5/33

In: 2310.373+/-0.553 χ^2/NDF : 515137.0/17

Out: 2325.687+/-0.544 χ^2/NDF : 229353.9/20

All: 2318.160+/-0.388 χ^2/NDF : 744880.3/38

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -31.400 ± 485.331 χ^2/NDF : 16.3/15

Left Out: 2616.724 ± 1665.388 χ^2/NDF : 0.5/2

Right Out: -448.265 ± 362.575 χ^2/NDF : 15.1/17

Left In: -856.453 ± 1869.681 χ^2/NDF : 0.0/1

Left: 1080.184 ± 1243.587 χ^2/NDF : 2.5/4

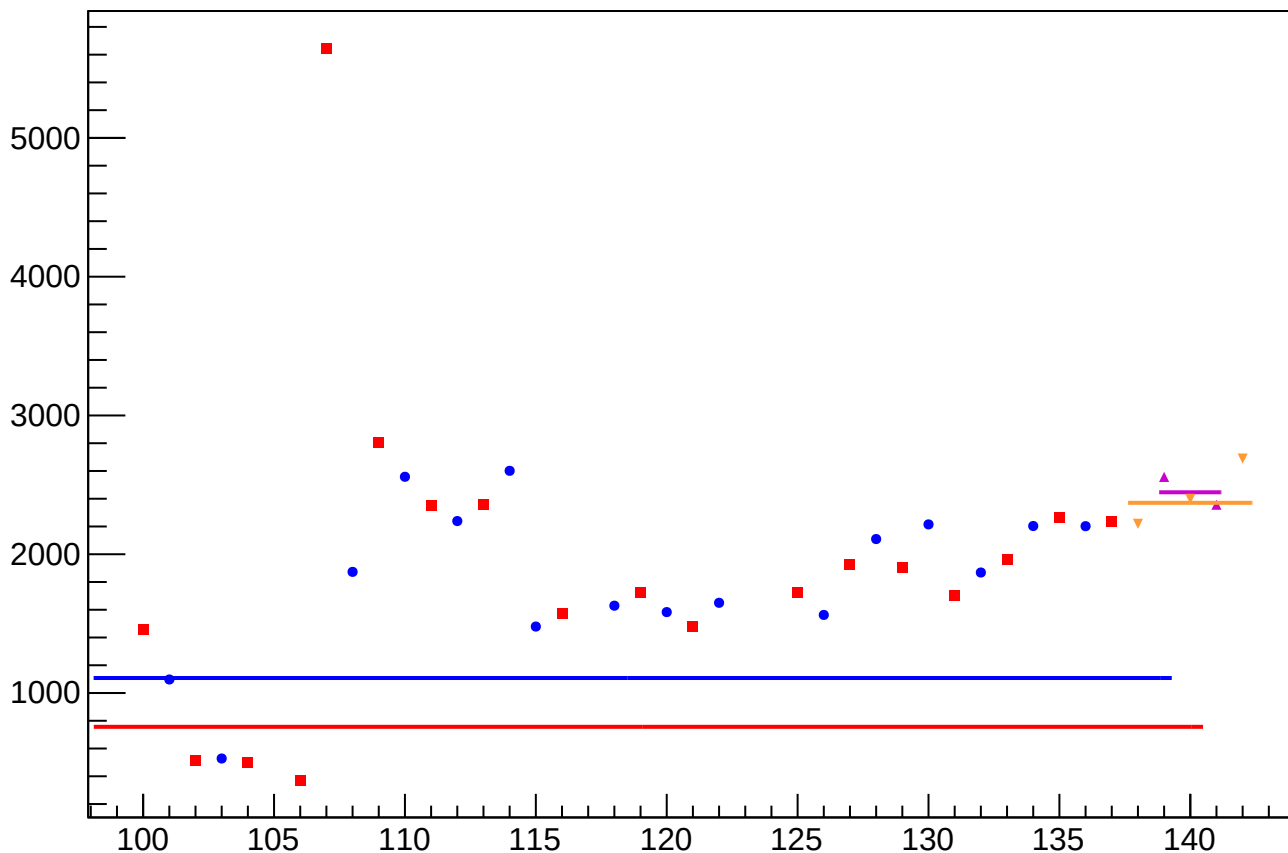
Right: -298.945 ± 290.468 χ^2/NDF : 31.9/33

In: -83.484 ± 469.763 χ^2/NDF : 16.5/17

Out: -309.563 ± 354.276 χ^2/NDF : 18.9/20

All: -227.597 ± 282.855 χ^2/NDF : 35.5/38

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1108.149+/-0.343 χ^2/NDF : 3746402.0/15

Left Out: 2370.626+/-1.178 χ^2/NDF : 19595.8/2

Right Out: 756.434+/-0.256 χ^2/NDF : 5603097.5/17

Left In: 2446.483+/-1.322 χ^2/NDF : 5679.4/1

Left: 2404.185+/-0.879 χ^2/NDF : 27110.9/4

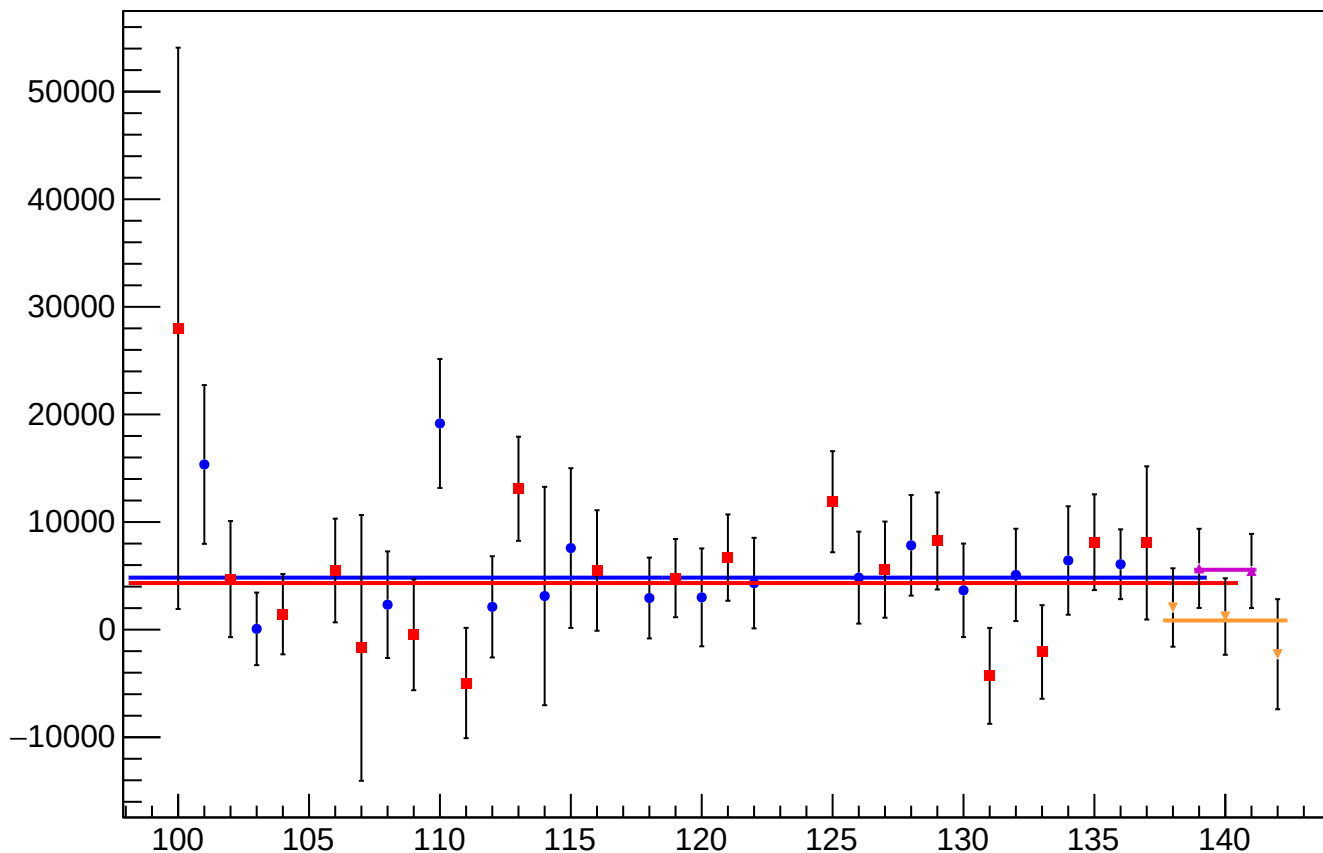
Right: 882.417+/-0.205 χ^2/NDF : 10023620.2/33

In: 1192.635+/-0.332 χ^2/NDF : 4712154.0/17

Out: 829.482+/-0.251 χ^2/NDF : 7416591.3/20

All: 961.144+/-0.200 χ^2/NDF : 12890645.0/38

asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4833.806 ± 1142.535 $\chi^2/\text{NDF}: 11.7/15$

Left Out: 852.294 ± 2278.214 $\chi^2/\text{NDF}: 0.5/2$

Right Out: 4328.601 ± 1144.541 $\chi^2/\text{NDF}: 19.9/17$

Left In: 5565.460 ± 2515.337 $\chi^2/\text{NDF}: 0.0/1$

Left: 2976.299 ± 1688.564 $\chi^2/\text{NDF}: 2.4/4$

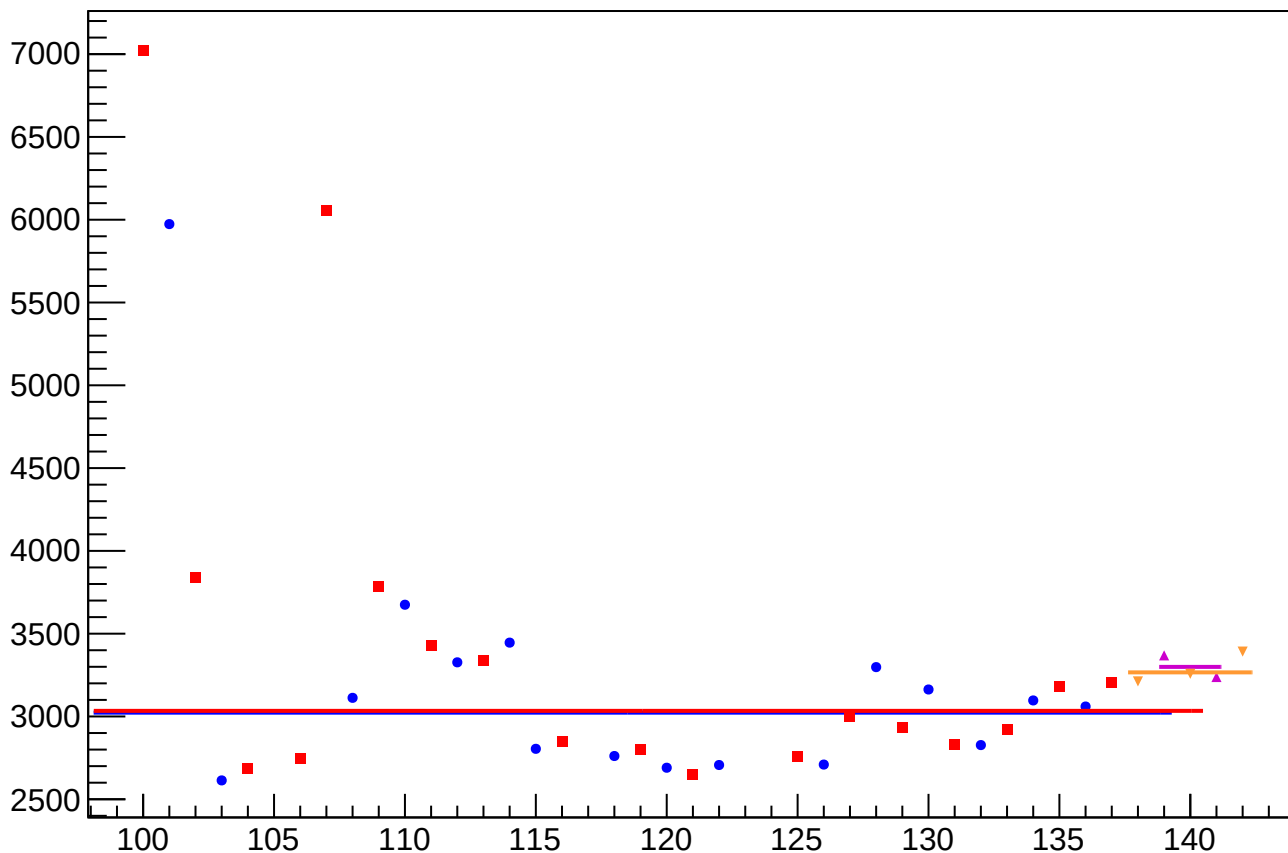
Right: 4581.647 ± 808.603 $\chi^2/\text{NDF}: 31.7/33$

In: 4958.944 ± 1040.250 $\chi^2/\text{NDF}: 11.7/17$

Out: 3628.030 ± 1022.731 $\chi^2/\text{NDF}: 22.3/20$

All: 4282.186 ± 729.295 $\chi^2/\text{NDF}: 34.8/38$

asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3023.068+/-0.808 χ^2/NDF : 443705.8/15

Left Out: 3266.281+/-1.611 χ^2/NDF :1663.1/2

Right Out: 3033.869+/-0.809 χ^2/NDF : 342674.7/17

Left In: 3299.420+/-1.779 χ^2/NDF :1344.2/1

Left: 3281.216+/-1.194 χ^2/NDF : 3198.0/4

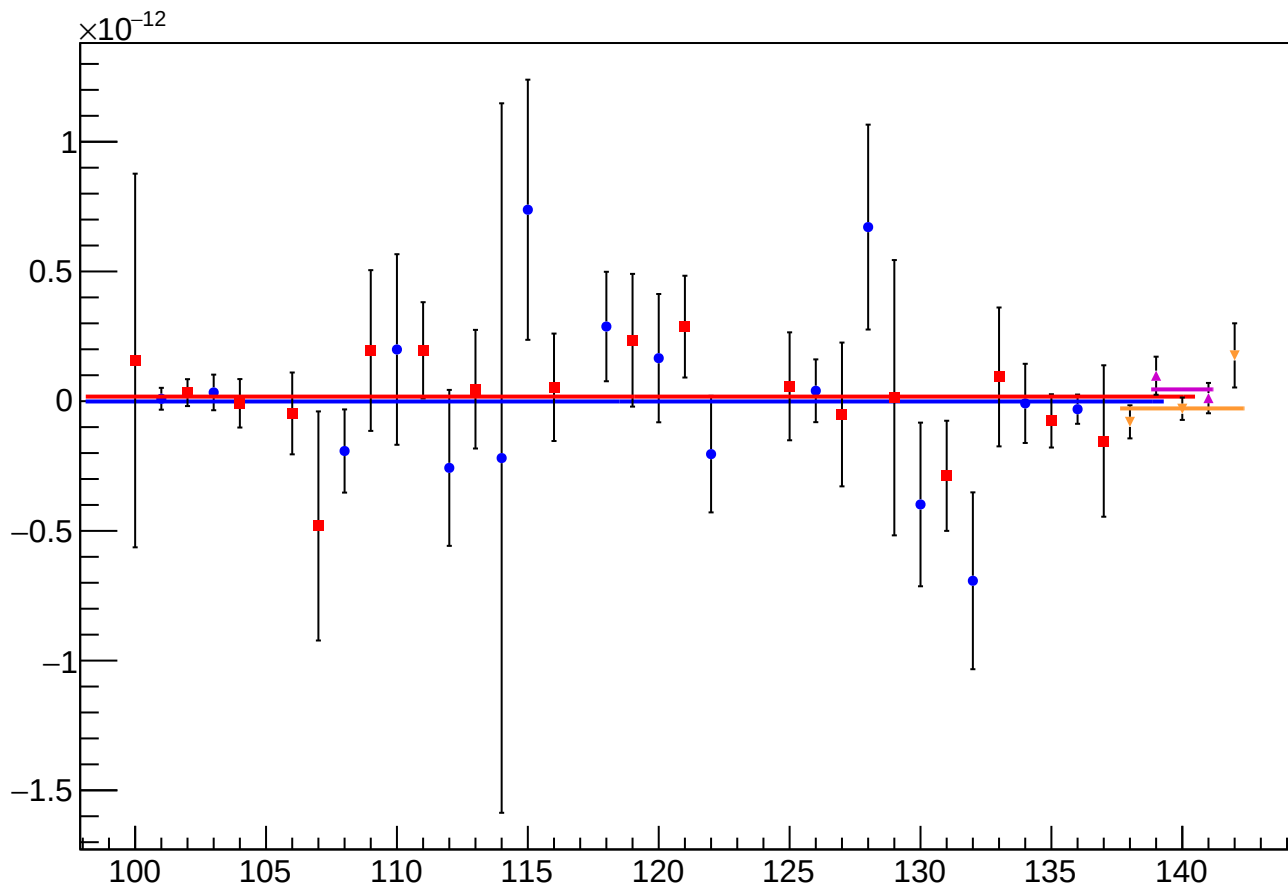
Right: 3028.459+/-0.572 χ^2/NDF : 786469.7/33

In: 3070.334+/-0.736 χ^2/NDF :465062.4/17

Out: 3080.706+/-0.723 χ^2/NDF :360957.4/20

All: 3075.608+/-0.516 χ^2/NDF : 826120.9/38

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 17.1/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 3.4/2$

Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 9.0/17$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.8/1$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 5.9/4$

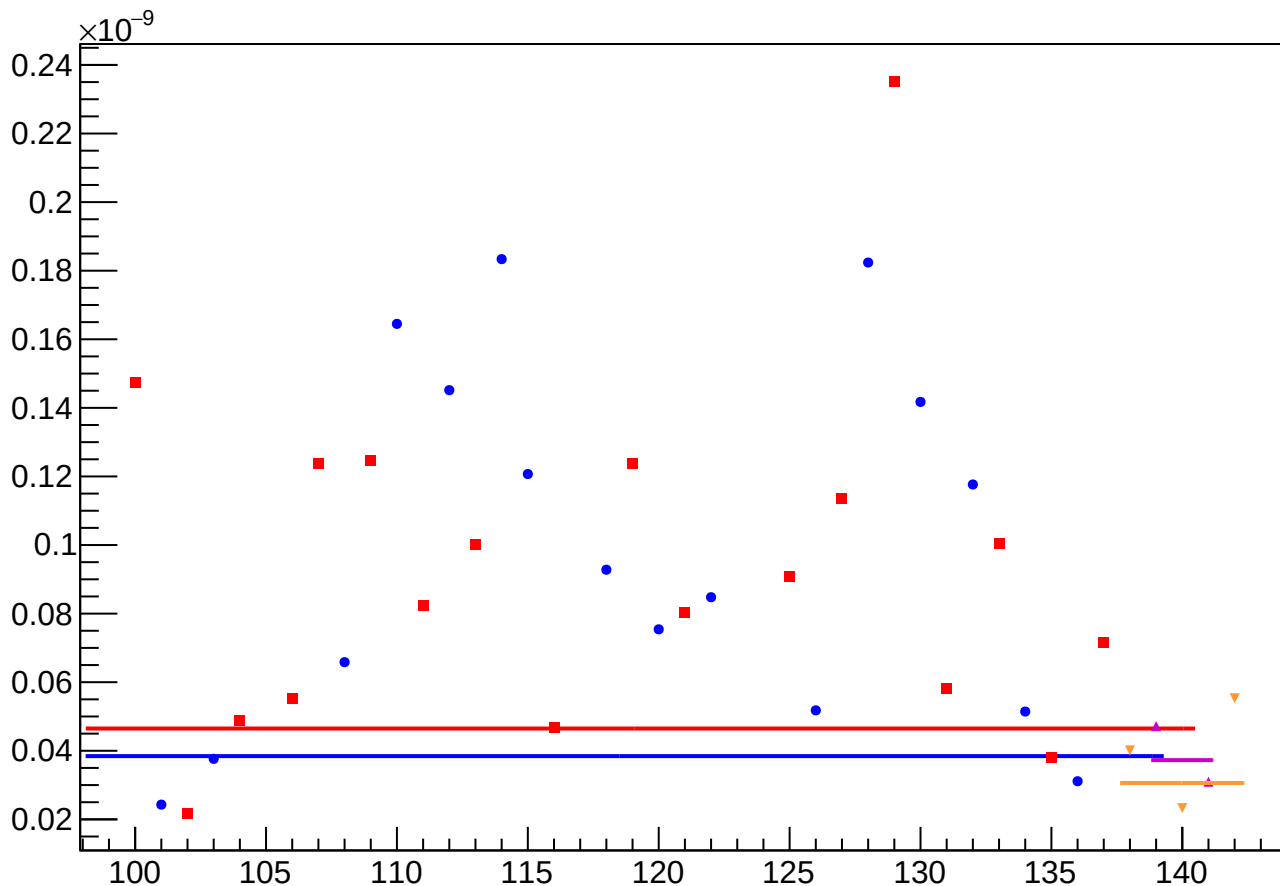
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 26.3/33$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 18.7/17$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 13.2/20$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 32.2/38$

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1771405.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 181912.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1697135.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 59823.3/1

Left: 0.000+/-0.000 χ^2/NDF : 268855.1/4

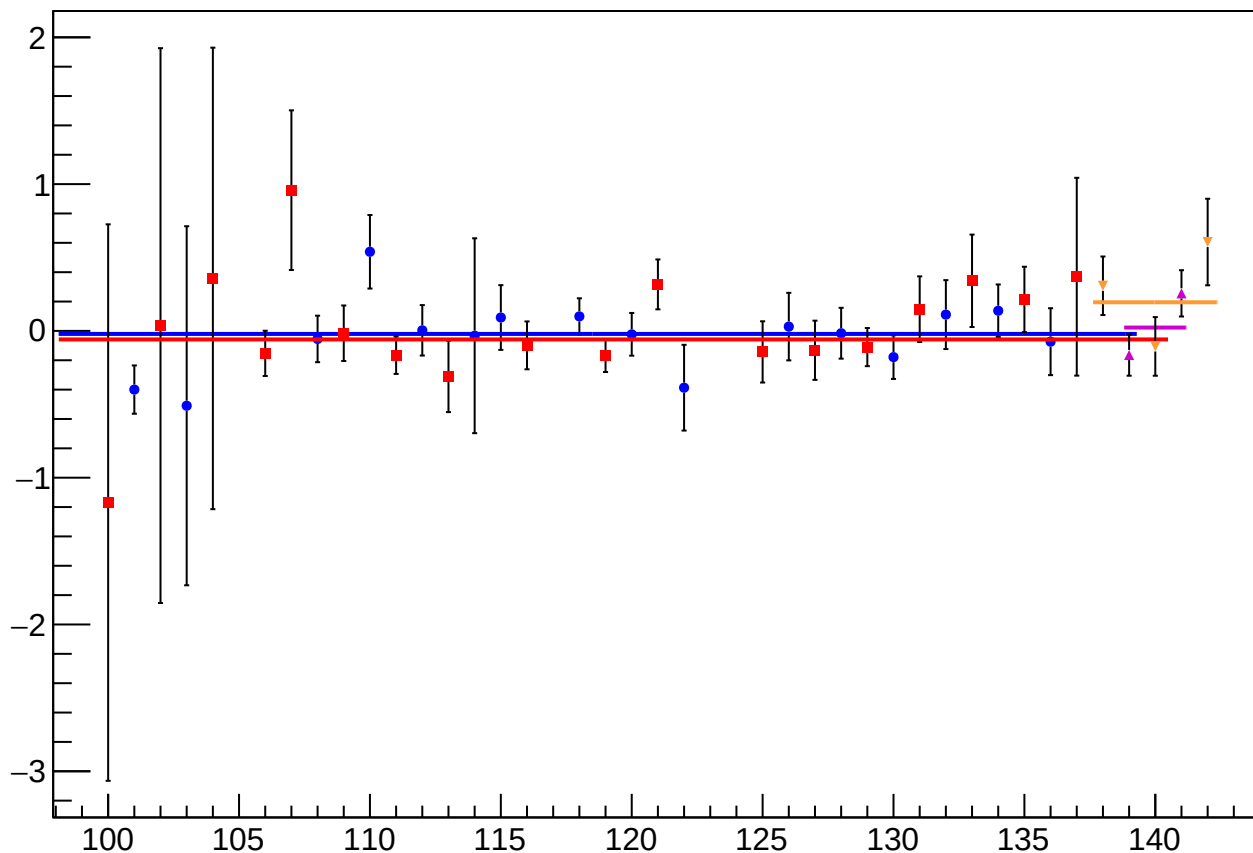
Right: 0.000+/-0.000 χ^2/NDF : 3535596.3/33

In: 0.000+/-0.000 χ^2/NDF : 1832183.1/17

Out: 0.000+/-0.000 χ^2/NDF : 2091707.7/20

All: 0.000+/-0.000 χ^2/NDF : 3924138.4/38

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.048 χ^2/NDF : 15.6/15

Left Out: 0.195 ± 0.127 χ^2/NDF : 4.5/2

Right Out: -0.058 ± 0.046 χ^2/NDF : 16.8/17

Left In: 0.023 ± 0.105 χ^2/NDF : 3.9/1

Left: 0.093 ± 0.081 χ^2/NDF : 9.5/4

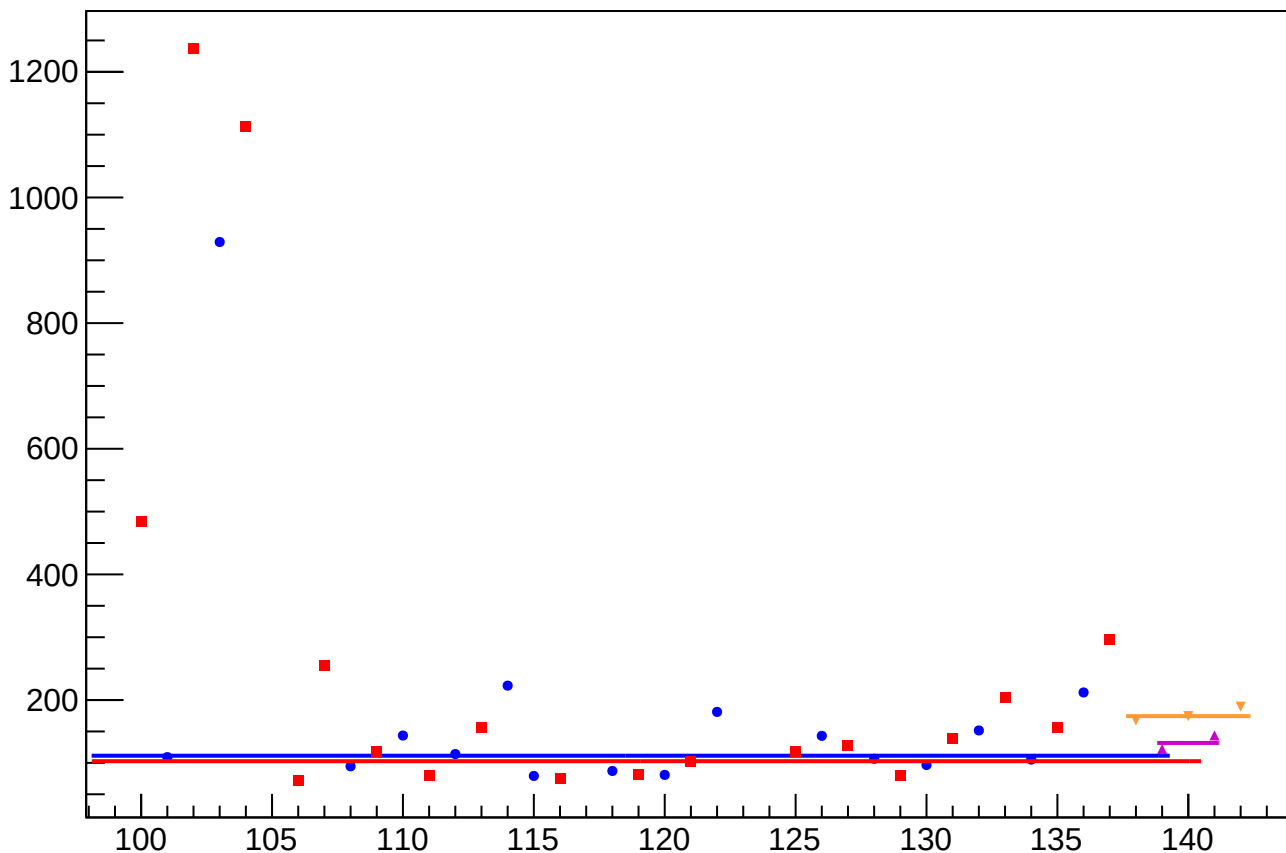
Right: -0.040 ± 0.033 χ^2/NDF : 32.8/33

In: -0.013 ± 0.043 χ^2/NDF : 19.7/17

Out: -0.028 ± 0.044 χ^2/NDF : 24.9/20

All: -0.021 ± 0.031 χ^2/NDF : 44.6/38

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 111.407 $\pm$ 0.034 χ^2 /NDF: 1839361.2/15

Left Out: 174.378 $\pm$ 0.090 χ^2 /NDF:7643.0/2

Right Out: 102.673 $\pm$ 0.033 χ^2 /NDF: 2826852.7/17

Left In: 131.713 $\pm$ 0.074 χ^2 /NDF:21014.3/1

Left: 149.027 $\pm$ 0.057 χ^2 /NDF: 162187.2/4

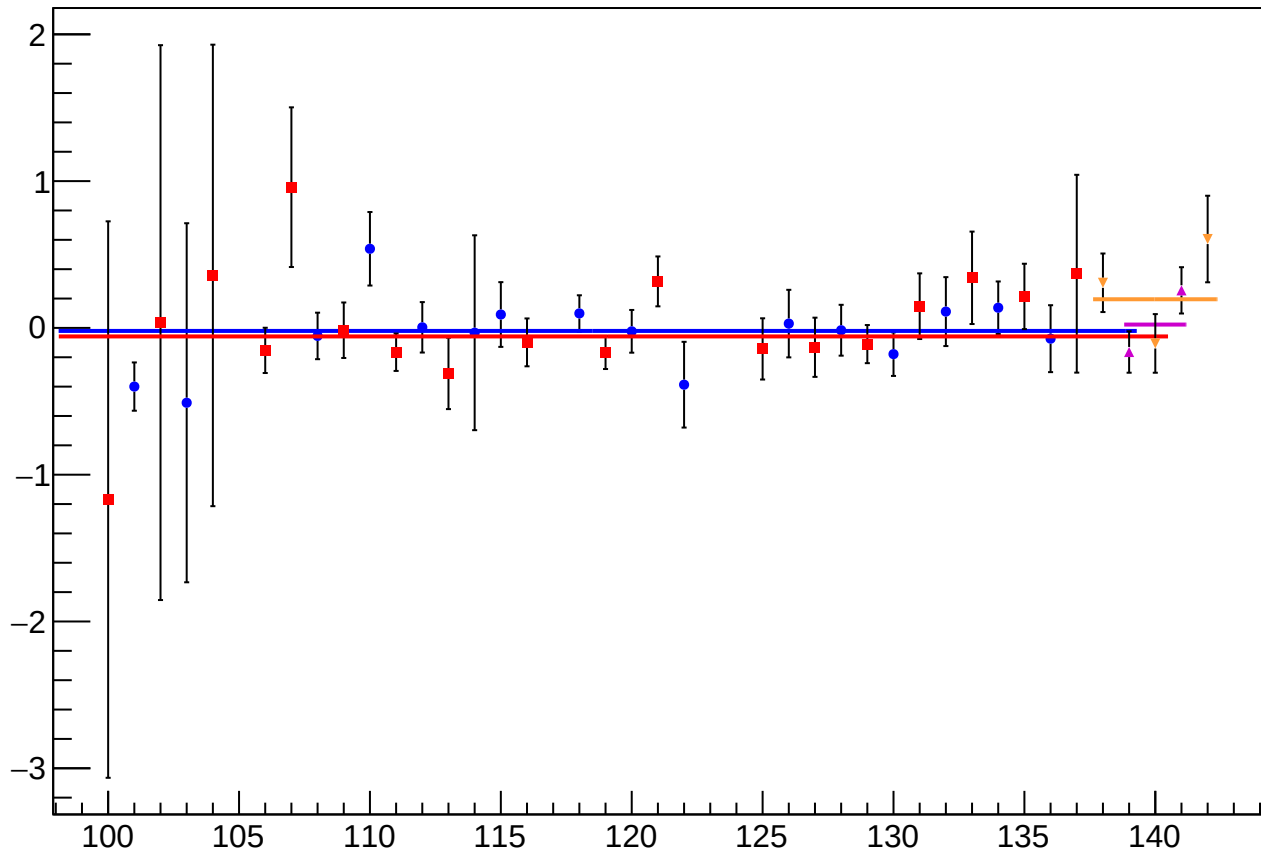
Right: 106.926 $\pm$ 0.024 χ^2 /NDF: 4700716.0/33

In: 114.862 $\pm$ 0.031 χ^2 /NDF:1922229.8/17

Out: 111.085 $\pm$ 0.031 χ^2 /NDF:3394783.7/20

All: 112.982 $\pm$ 0.022 χ^2 /NDF: 5324552.2/38

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.048 χ^2/NDF : 15.6/15

Left Out: 0.195 ± 0.127 χ^2/NDF : 4.5/2

Right Out: -0.058 ± 0.046 χ^2/NDF : 16.8/17

Left In: 0.023 ± 0.105 χ^2/NDF : 3.9/1

Left: 0.093 ± 0.081 χ^2/NDF : 9.5/4

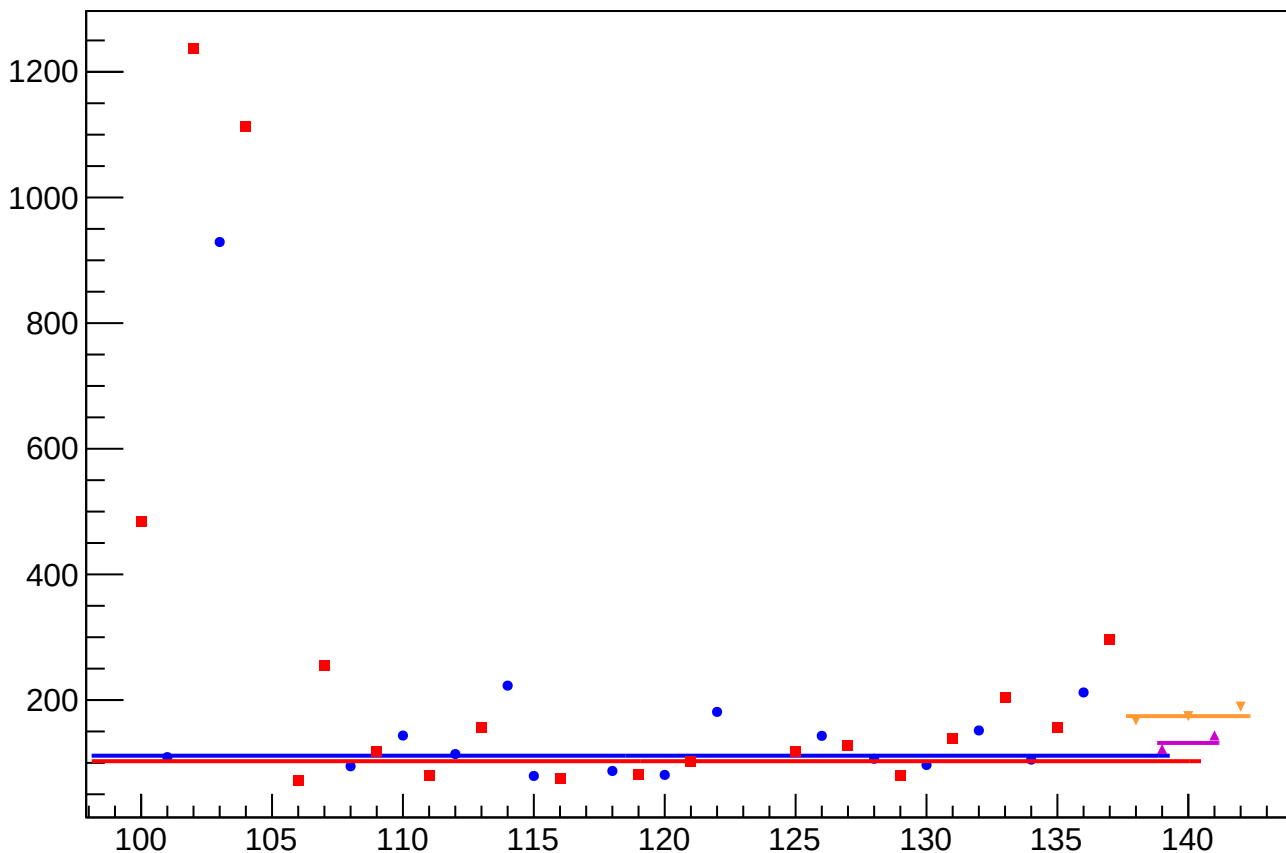
Right: -0.040 ± 0.033 χ^2/NDF : 32.8/33

In: -0.013 ± 0.043 χ^2/NDF : 19.7/17

Out: -0.028 ± 0.044 χ^2/NDF : 24.9/20

All: -0.021 ± 0.031 χ^2/NDF : 44.6/38

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 111.407 $\pm$ 0.034 χ^2 /NDF: 1839361.2/15

Left Out: 174.378 $\pm$ 0.090 χ^2 /NDF:7643.0/2

Right Out: 102.673 $\pm$ 0.033 χ^2 /NDF: 2826852.7/17

Left In: 131.713 $\pm$ 0.074 χ^2 /NDF:21014.3/1

Left: 149.027 $\pm$ 0.057 χ^2 /NDF: 162187.2/4

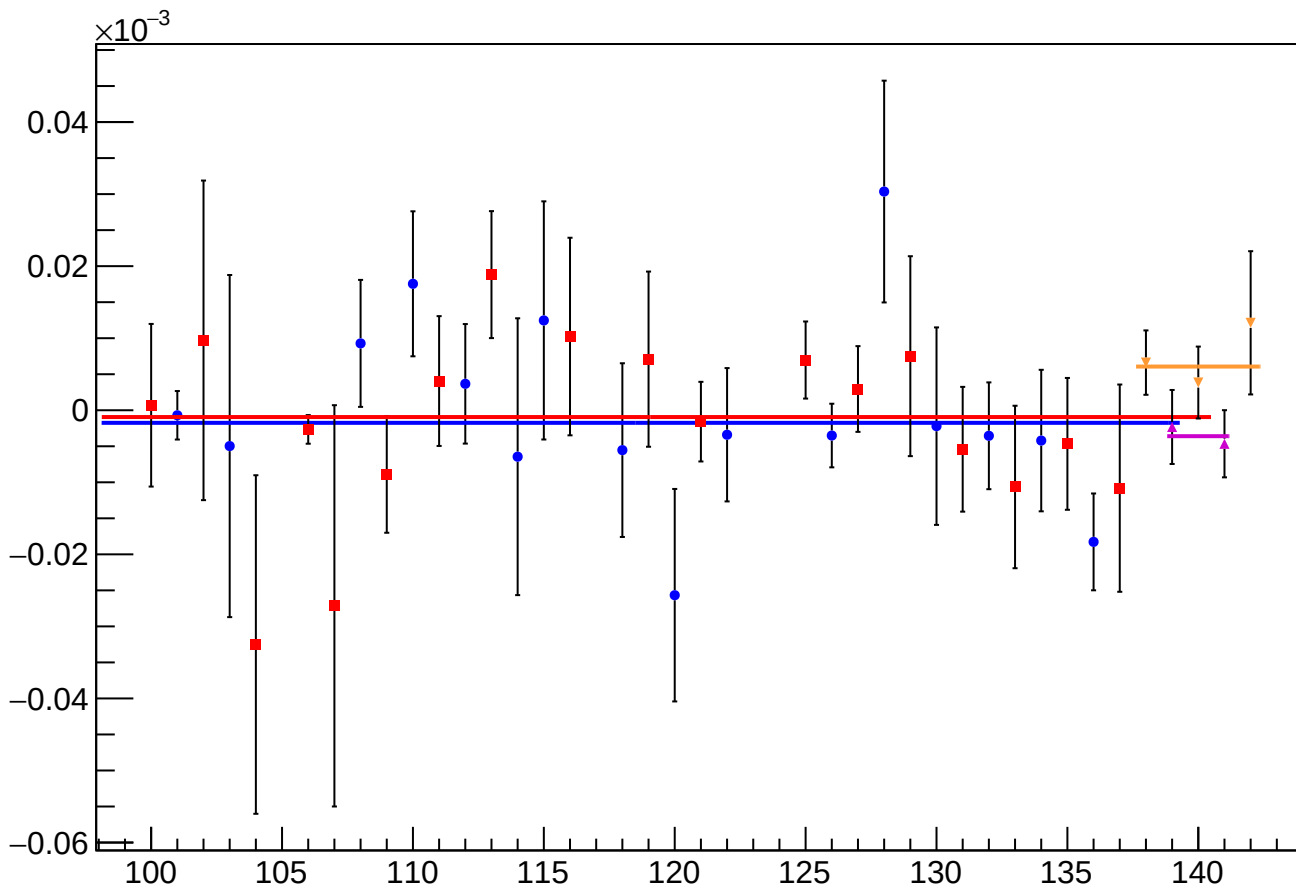
Right: 106.926 $\pm$ 0.024 χ^2 /NDF: 4700716.0/33

In: 114.862 $\pm$ 0.031 χ^2 /NDF:1922229.8/17

Out: 111.085 $\pm$ 0.031 χ^2 /NDF:3394783.7/20

All: 112.982 $\pm$ 0.022 χ^2 /NDF: 5324552.2/38

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 20.0/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.6/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 15.7/17

Left In: -0.000 ± 0.000 χ^2/NDF : 0.1/1

Left: 0.000 ± 0.000 χ^2/NDF : 5.0/4

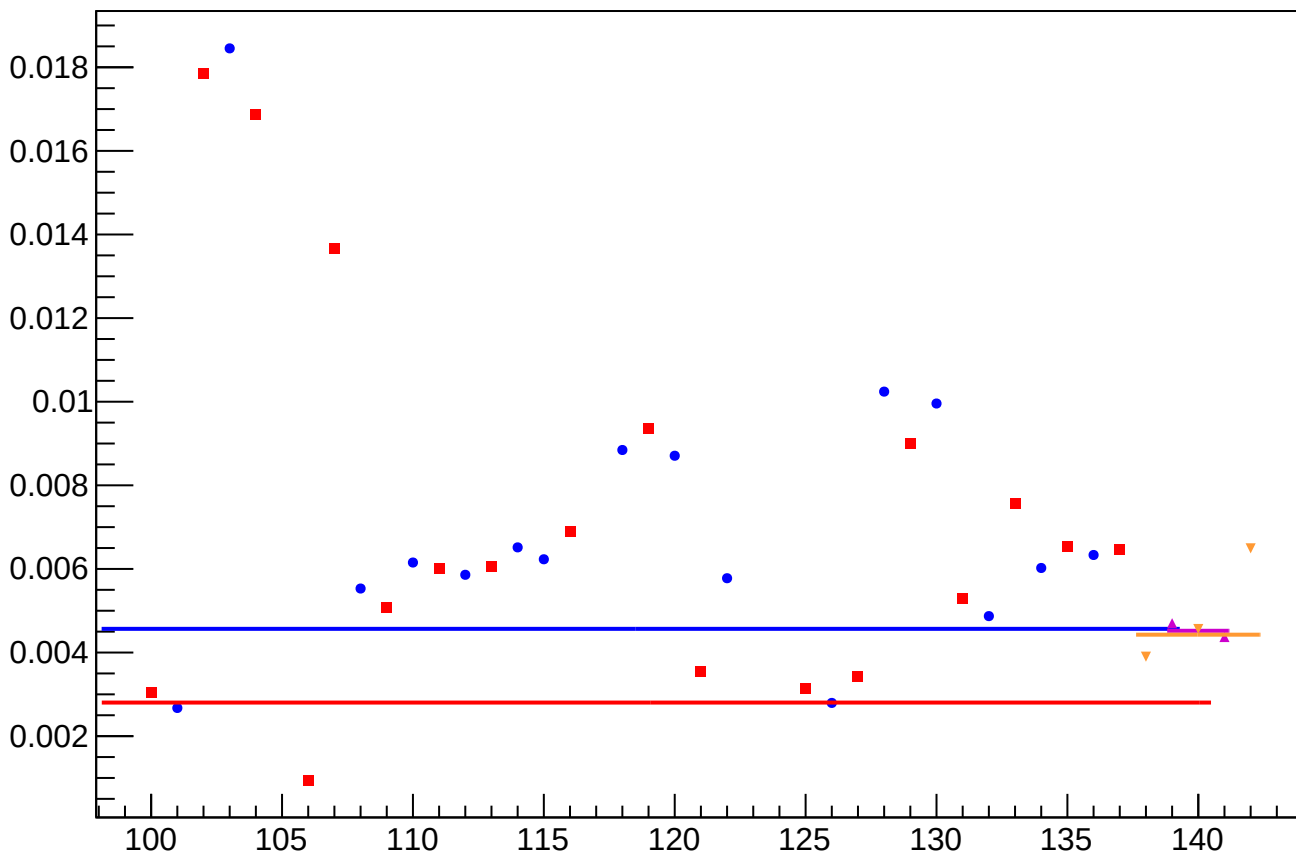
Right: -0.000 ± 0.000 χ^2/NDF : 35.9/33

In: -0.000 ± 0.000 χ^2/NDF : 20.4/17

Out: 0.000 ± 0.000 χ^2/NDF : 20.4/20

All: -0.000 ± 0.000 χ^2/NDF : 42.1/38

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 3012257.6/15

Left Out: 0.004+/-0.000 χ^2/NDF : 115551.7/2

Right Out: 0.003+/-0.000 χ^2/NDF : 6610011.8/17

Left In: 0.005+/-0.000 χ^2/NDF : 4528.3/1

Left: 0.004+/-0.000 χ^2/NDF : 120874.3/4

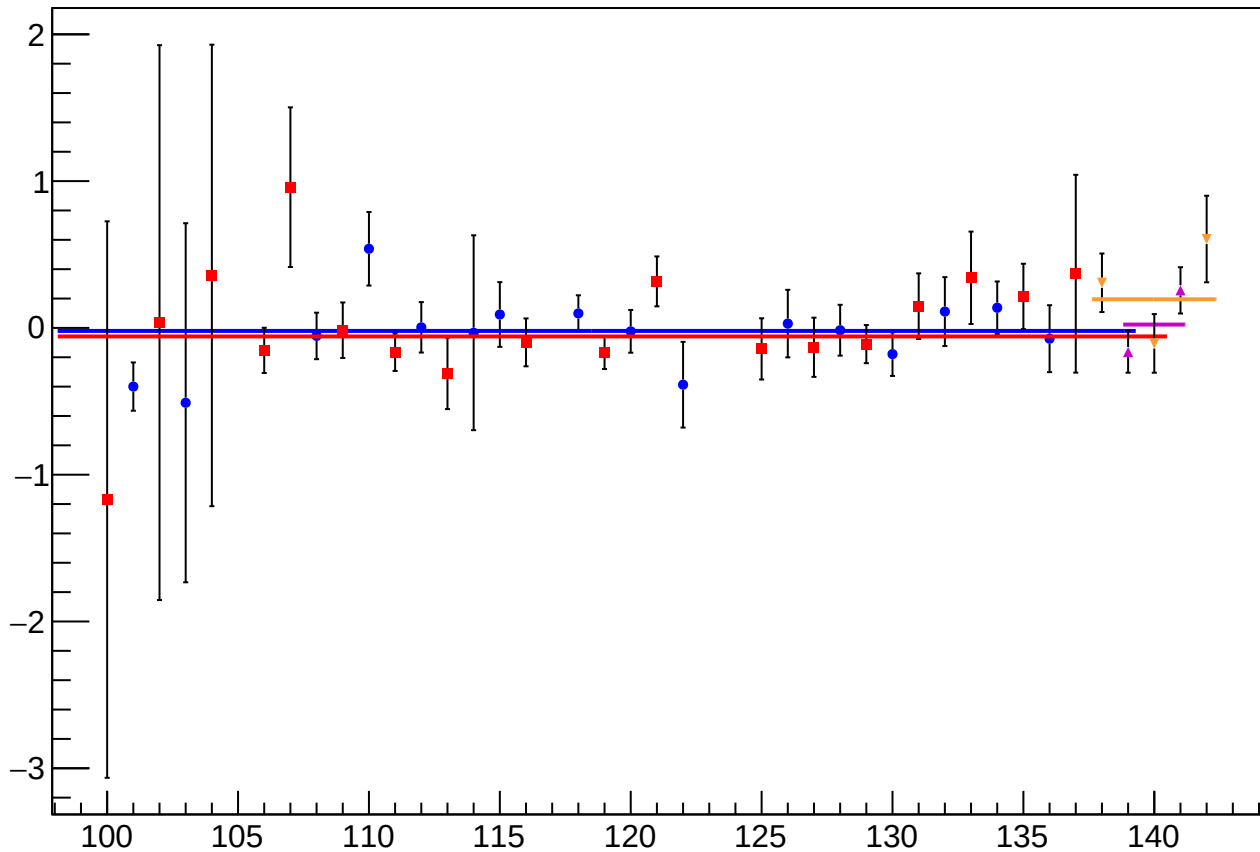
Right: 0.003+/-0.000 χ^2/NDF : 10674508.6/33

In: 0.005+/-0.000 χ^2/NDF : 3017060.8/17

Out: 0.003+/-0.000 χ^2/NDF : 7159668.0/20

All: 0.004+/-0.000 χ^2/NDF : 11097935.1/38

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.048 χ^2/NDF : 15.6/15

Left Out: 0.195 ± 0.127 χ^2/NDF : 4.5/2

Right Out: -0.058 ± 0.046 χ^2/NDF : 16.8/17

Left In: 0.023 ± 0.105 χ^2/NDF : 3.9/1

Left: 0.093 ± 0.081 χ^2/NDF : 9.5/4

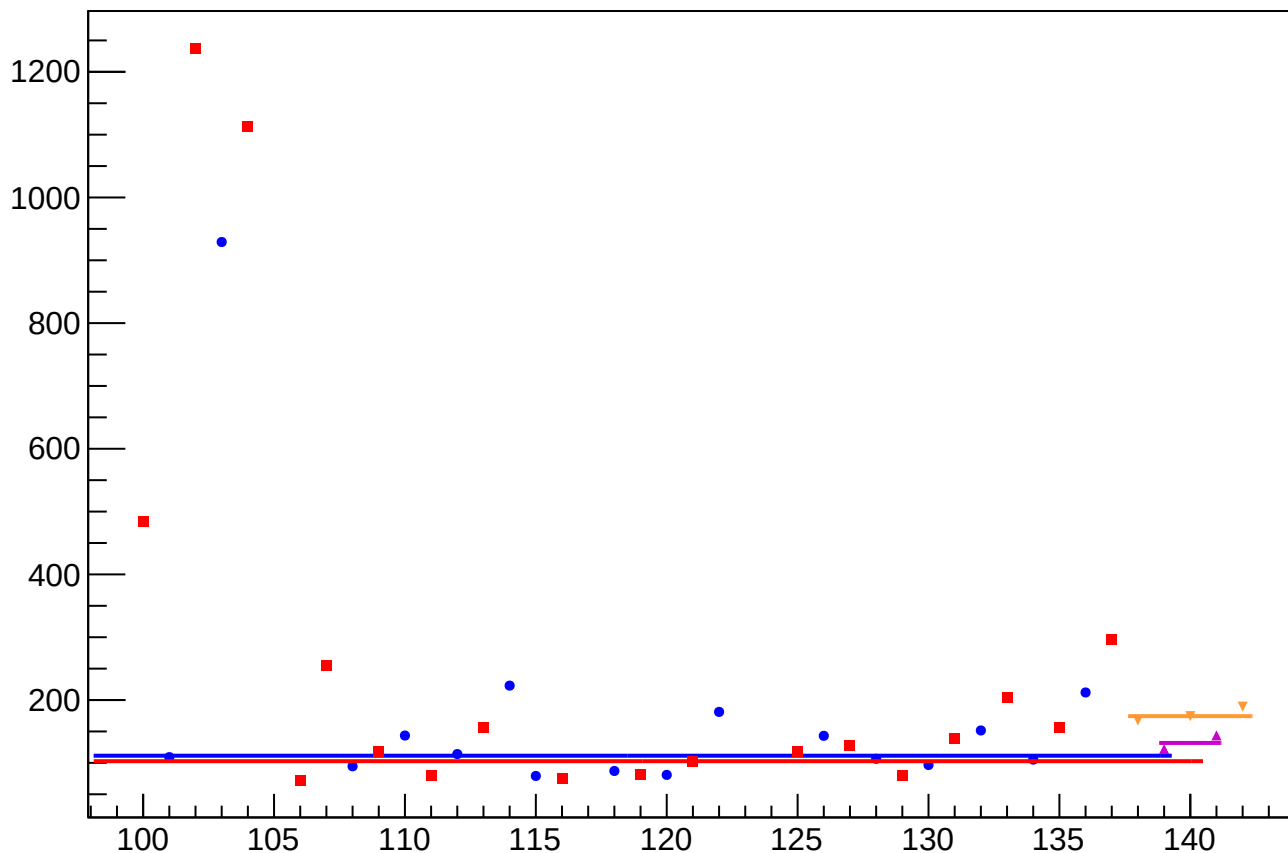
Right: -0.040 ± 0.033 χ^2/NDF : 32.8/33

In: -0.013 ± 0.043 χ^2/NDF : 19.7/17

Out: -0.028 ± 0.044 χ^2/NDF : 24.9/20

All: -0.021 ± 0.031 χ^2/NDF : 44.6/38

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 111.404 $\pm$ 0.034 χ^2 /NDF: 1839407.3/15

Left Out: 174.378 $\pm$ 0.090 χ^2 /NDF: 7643.9/2

Right Out: 102.671 $\pm$ 0.033 χ^2 /NDF: 2826848.2/17

Left In: 131.713 $\pm$ 0.074 χ^2 /NDF: 21011.0/1

Left: 149.027 $\pm$ 0.057 χ^2 /NDF: 162180.8/4

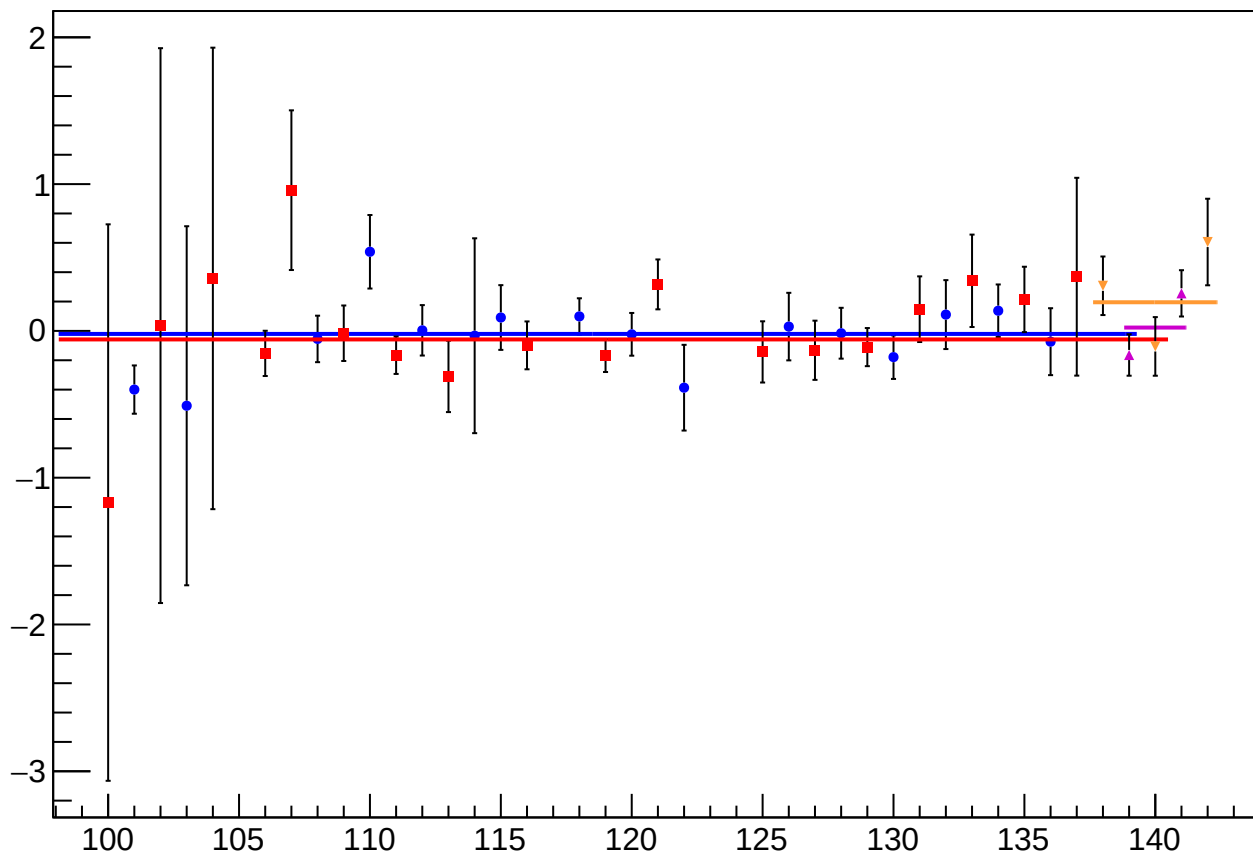
Right: 106.924 $\pm$ 0.024 χ^2 /NDF: 4700749.9/33

In: 114.859 $\pm$ 0.031 χ^2 /NDF: 1922293.3/17

Out: 111.084 $\pm$ 0.031 χ^2 /NDF: 3394808.2/20

All: 112.980 $\pm$ 0.022 χ^2 /NDF: 5324637.9/38

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.048 χ^2/NDF : 15.6/15

Left Out: 0.195 ± 0.127 χ^2/NDF : 4.5/2

Right Out: -0.058 ± 0.046 χ^2/NDF : 16.8/17

Left In: 0.023 ± 0.105 χ^2/NDF : 3.9/1

Left: 0.093 ± 0.081 χ^2/NDF : 9.5/4

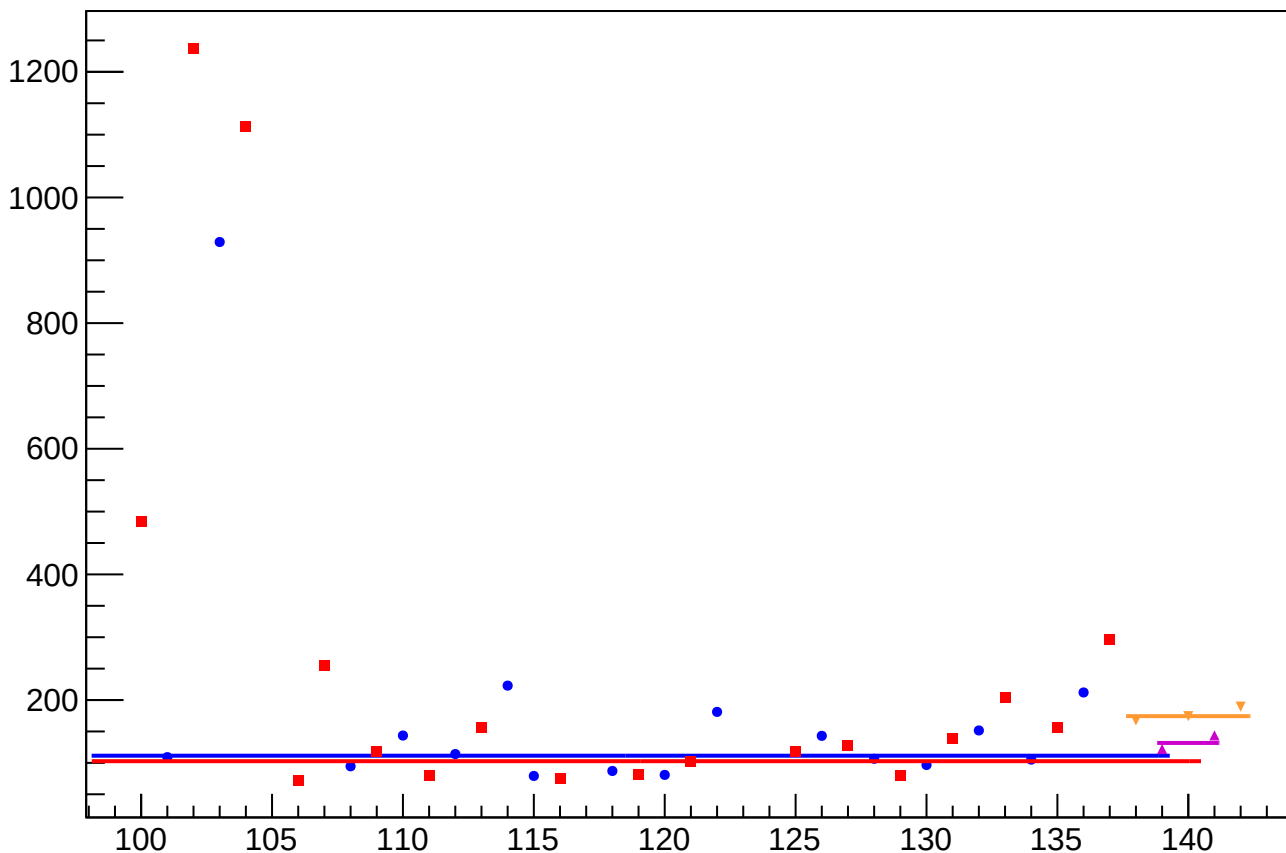
Right: -0.040 ± 0.033 χ^2/NDF : 32.8/33

In: -0.013 ± 0.043 χ^2/NDF : 19.7/17

Out: -0.028 ± 0.044 χ^2/NDF : 24.9/20

All: -0.021 ± 0.031 χ^2/NDF : 44.6/38

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 111.404 $\pm$ 0.034 χ^2 /NDF: 1839407.3/15

Left Out: 174.378 $\pm$ 0.090 χ^2 /NDF: 7643.9/2

Right Out: 102.671 $\pm$ 0.033 χ^2 /NDF: 2826848.2/17

Left In: 131.713 $\pm$ 0.074 χ^2 /NDF: 21011.0/1

Left: 149.027 $\pm$ 0.057 χ^2 /NDF: 162180.8/4

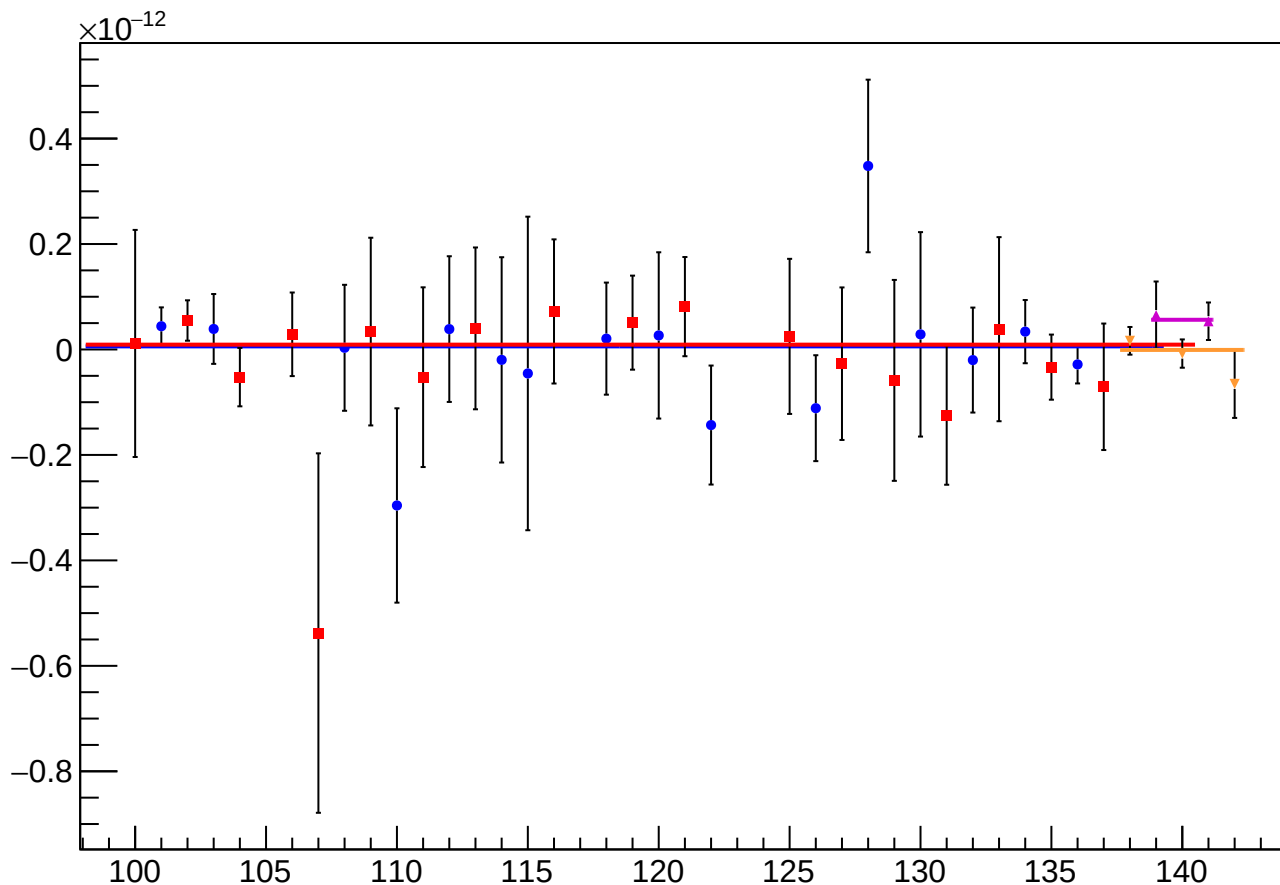
Right: 106.924 $\pm$ 0.024 χ^2 /NDF: 4700749.9/33

In: 114.859 $\pm$ 0.031 χ^2 /NDF: 1922293.3/17

Out: 111.084 $\pm$ 0.031 χ^2 /NDF: 3394808.2/20

All: 112.980 $\pm$ 0.022 χ^2 /NDF: 5324637.9/38

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 8.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 4.1/4

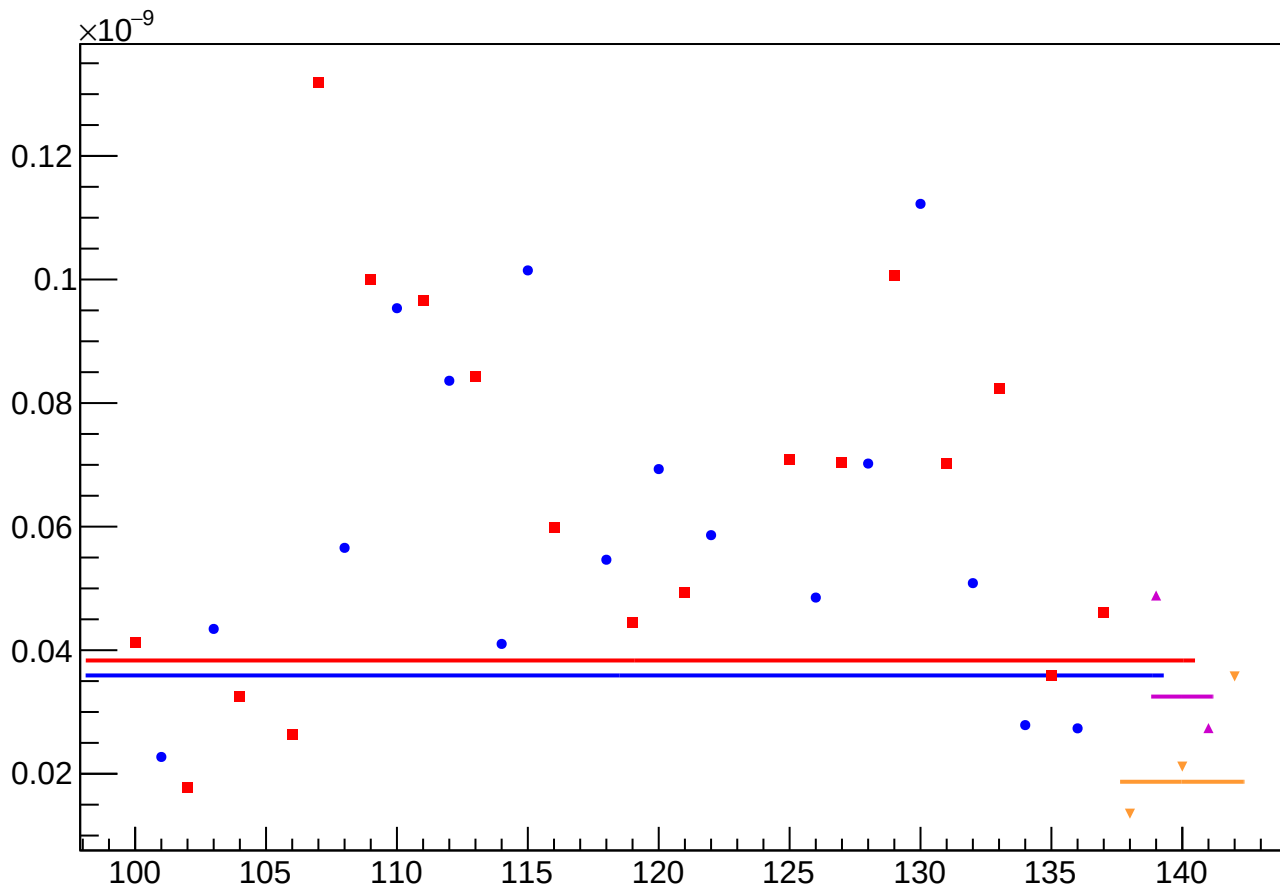
Right: 0.000+/-0.000 χ^2/NDF : 21.6/33

In: 0.000+/-0.000 χ^2/NDF : 14.8/17

Out: 0.000+/-0.000 χ^2/NDF : 10.3/20

All: 0.000+/-0.000 χ^2/NDF : 25.7/38

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1759038.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :233790.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2202319.8/17

Left In: 0.000+/-0.000 χ^2/NDF :172996.3/1

Left: 0.000+/-0.000 χ^2/NDF : 701595.6/4

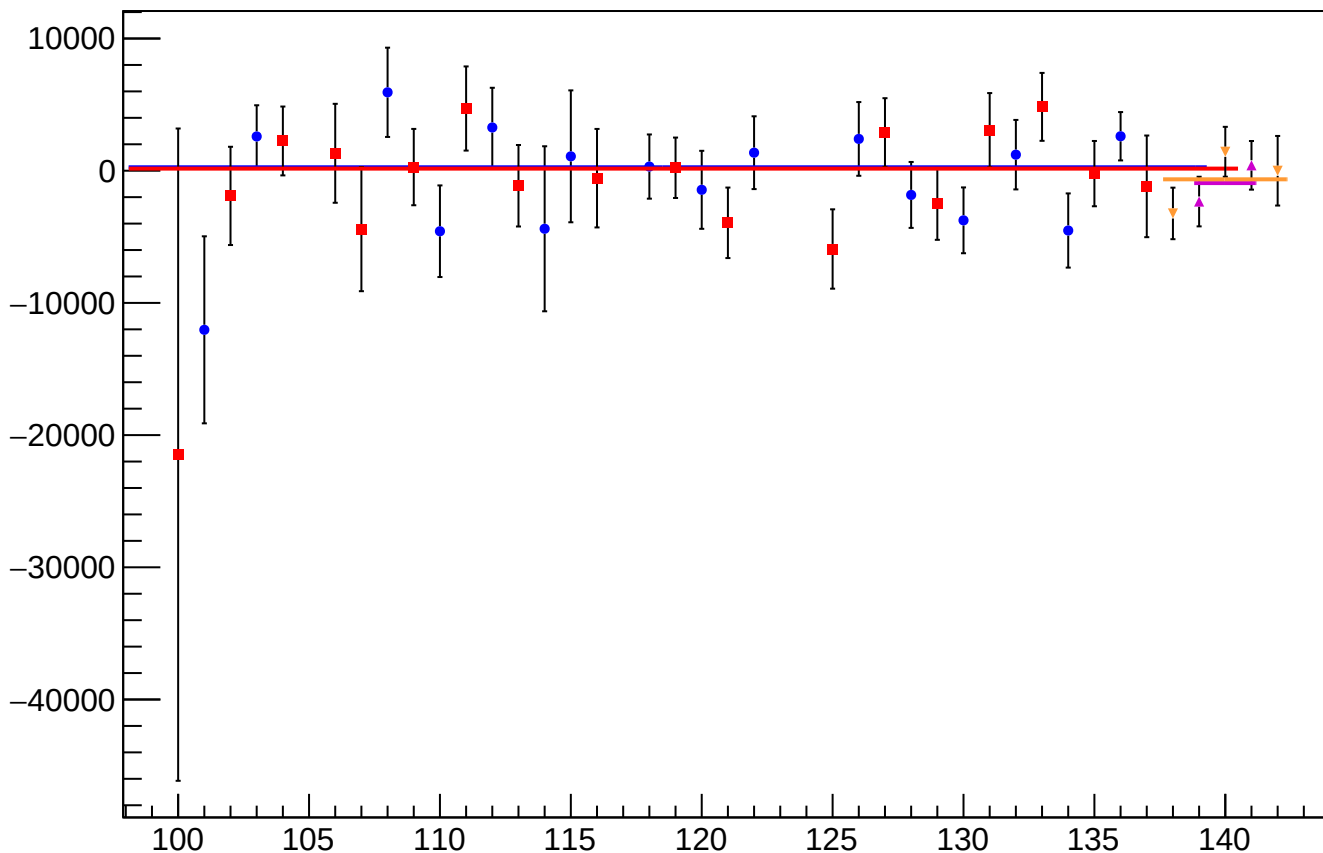
Right: 0.000+/-0.000 χ^2/NDF : 3975413.5/33

In: 0.000+/-0.000 χ^2/NDF :1949593.0/17

Out: 0.000+/-0.000 χ^2/NDF :3409387.9/20

All: 0.000+/-0.000 χ^2/NDF : 5653550.0/38

reg_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 259.502 $\pm$ 709.700 χ^2 /NDF: 19.4/15

Left Out: -651.063 $\pm$ 1205.093 χ^2 /NDF:3.0/2

Right Out: 159.330 $\pm$ 712.314 χ^2 /NDF: 18.1/17

Left In: -935.193 $\pm$ 1313.674 χ^2 /NDF:1.1/1

Left: -780.902 $\pm$ 888.039 χ^2 /NDF: 4.1/4

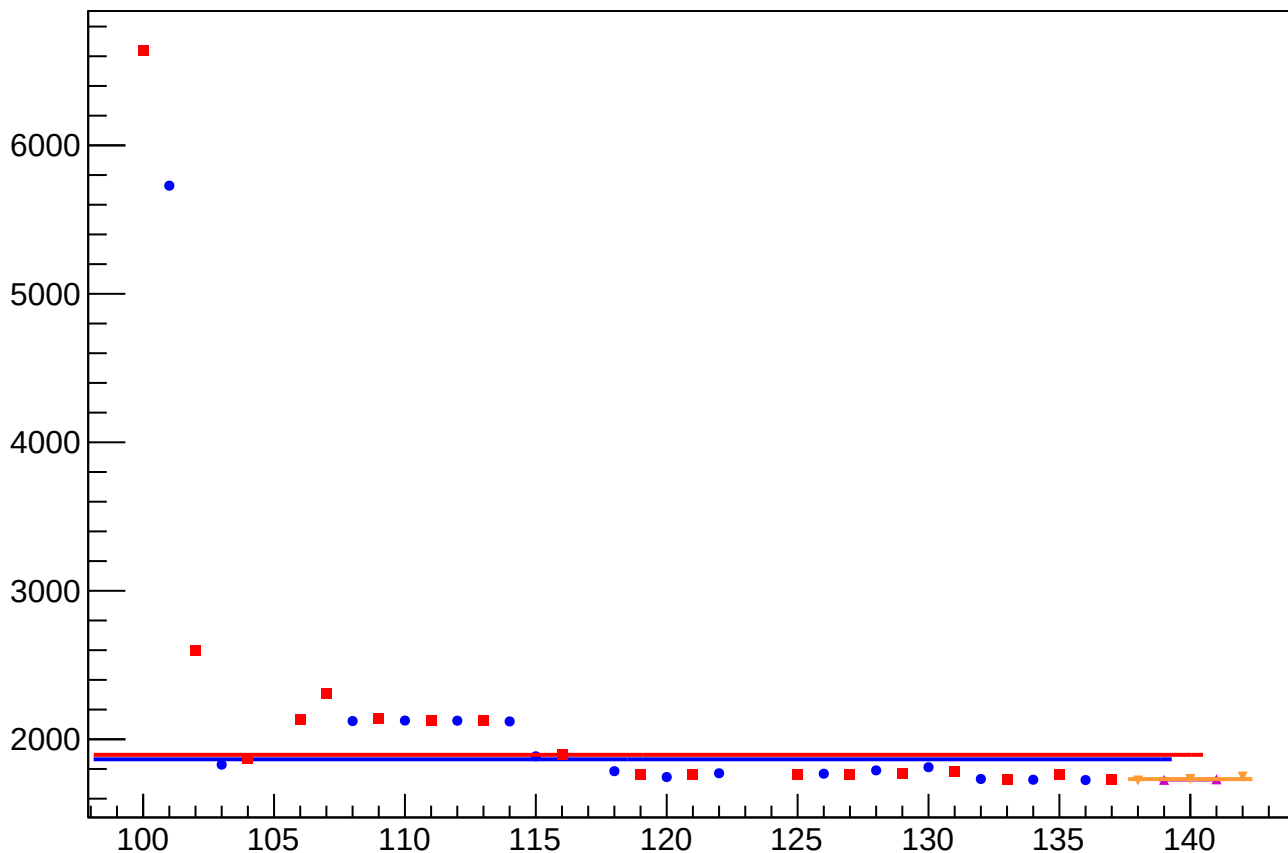
Right: 209.600 $\pm$ 502.755 χ^2 /NDF: 37.5/33

In: -10.406 $\pm$ 624.406 χ^2 /NDF:21.2/17

Out: -50.498 $\pm$ 613.203 χ^2 /NDF:21.5/20

All: -30.815 $\pm$ 437.507 χ^2 /NDF: 42.6/38

reg_asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1865.170+/-0.502 χ^2/NDF : 672724.7/15

Left Out: 1731.686+/-0.852 χ^2/NDF :134.4/2

Right Out: 1895.250+/-0.504 χ^2/NDF : 250806.5/17

Left In: 1728.741+/-0.929 χ^2/NDF :4.2/1

Left: 1730.340+/-0.628 χ^2/NDF : 144.0/4

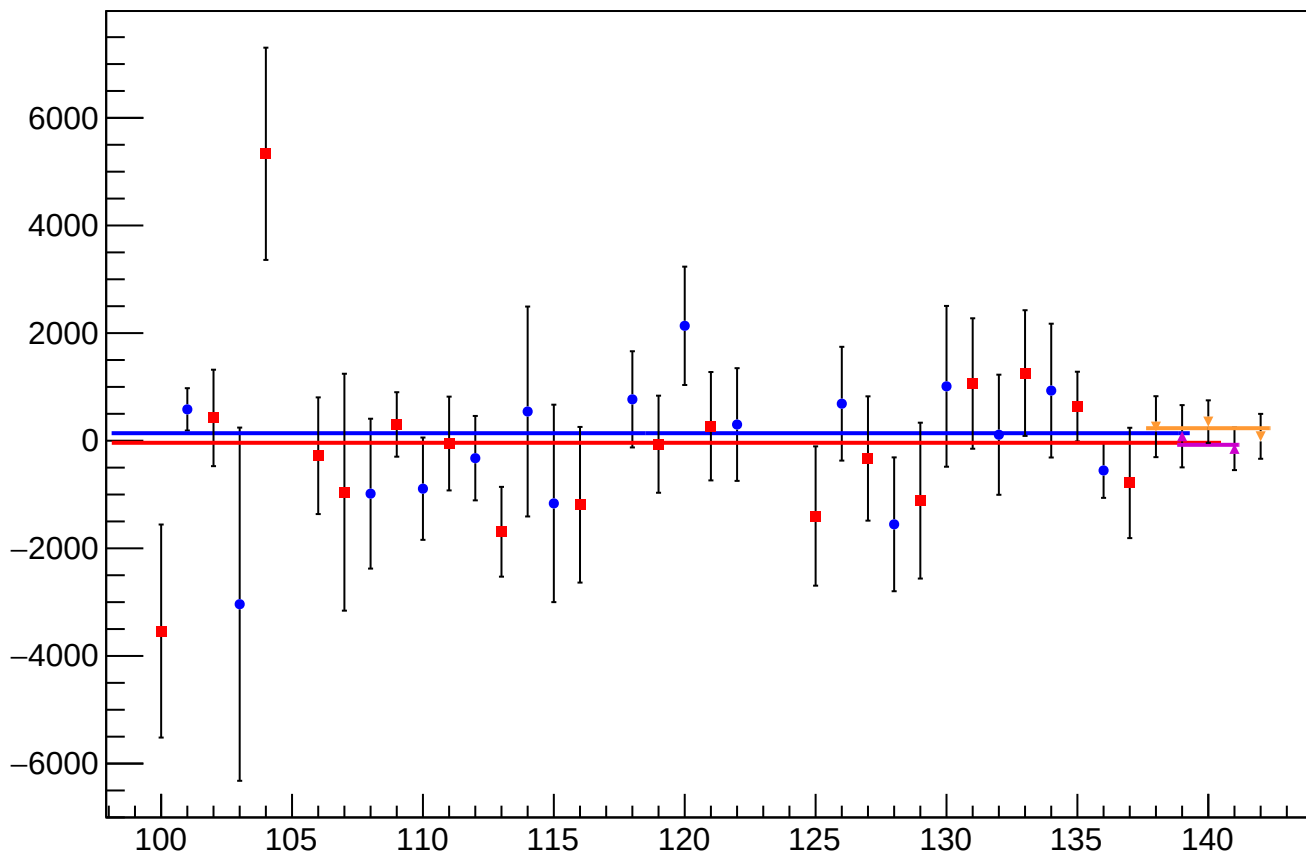
Right: 1880.155+/-0.356 χ^2/NDF : 925321.0/33

In: 1834.348+/-0.442 χ^2/NDF :689426.5/17

Out: 1852.900+/-0.434 χ^2/NDF :278244.9/20

All: 1843.792+/-0.309 χ^2/NDF : 968570.1/38

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 139.799 $\pm$ 220.100 χ^2 /NDF: 13.5/15

Left Out: 232.688 $\pm$ 256.090 χ^2 /NDF:0.2/2

Right Out: -38.629 $\pm$ 238.253 χ^2 /NDF: 21.4/17

Left In: -76.263 $\pm$ 326.421 χ^2 /NDF:0.1/1

Left: 114.979 $\pm$ 201.483 χ^2 /NDF: 0.9/4

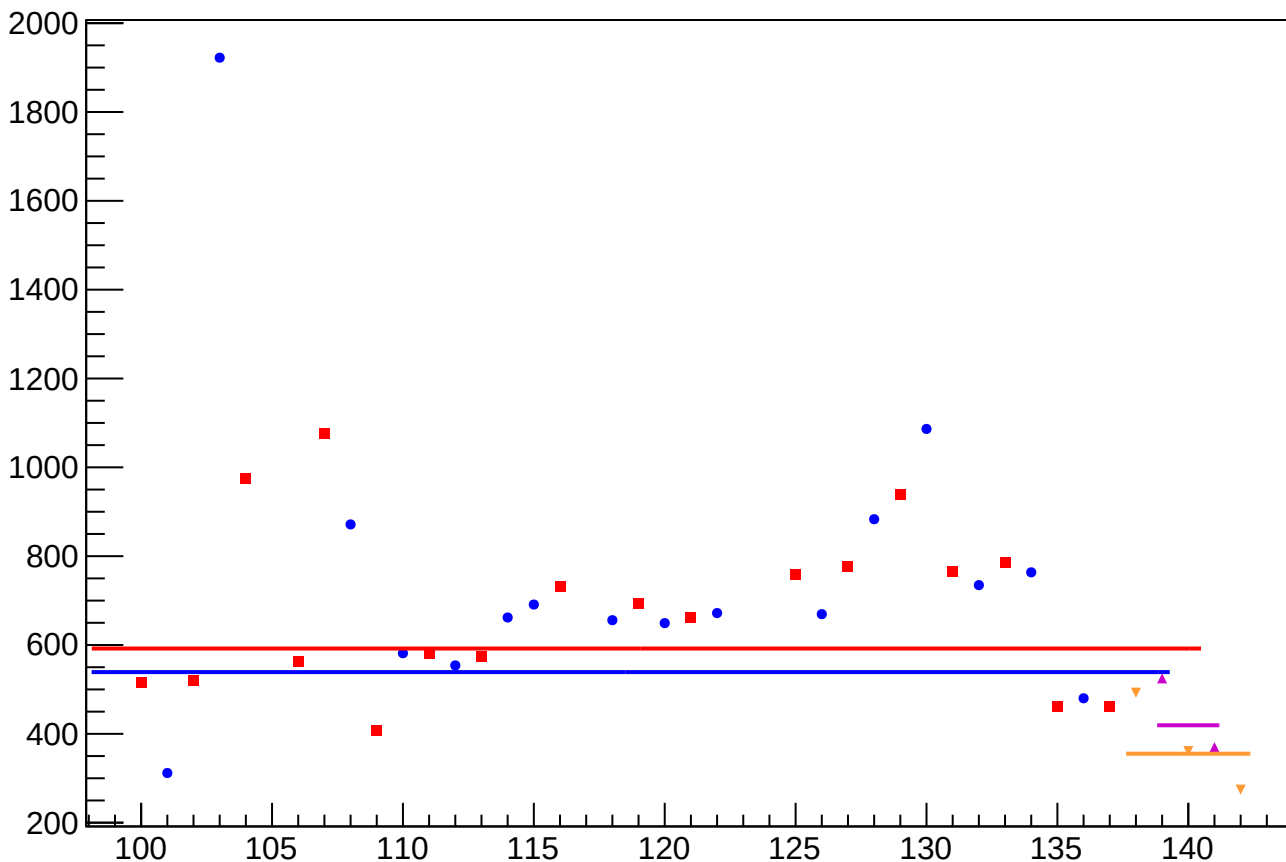
Right: 57.640 $\pm$ 161.672 χ^2 /NDF: 35.2/33

In: 72.268 $\pm$ 182.491 χ^2 /NDF:13.9/17

Out: 87.253 $\pm$ 174.436 χ^2 /NDF:22.2/20

All: 80.098 $\pm$ 126.096 χ^2 /NDF: 36.1/38

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 539.016 $\pm$ 0.156 χ^2 /NDF: 1854576.5/15

Left Out: 355.318 $\pm$ 0.181 χ^2 /NDF:193287.2/2

Right Out: 592.101 $\pm$ 0.168 χ^2 /NDF: 843066.1/17

Left In: 419.292 $\pm$ 0.231 χ^2 /NDF:97824.0/1

Left: 379.692 $\pm$ 0.142 χ^2 /NDF: 338663.8/4

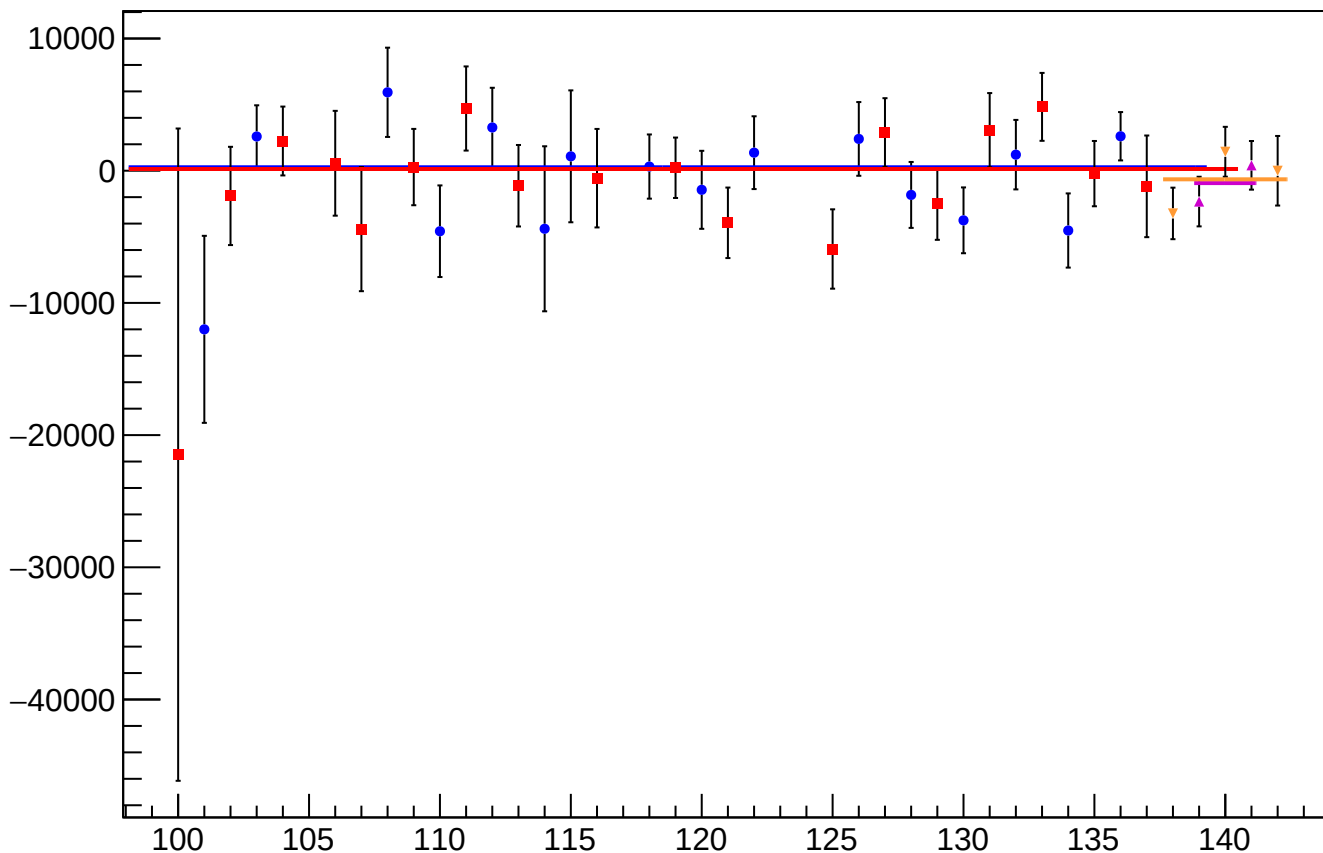
Right: 563.459 $\pm$ 0.114 χ^2 /NDF: 2751212.3/33

In: 501.596 $\pm$ 0.129 χ^2 /NDF:2137358.3/17

Out: 482.242 $\pm$ 0.123 χ^2 /NDF:1952864.5/20

All: 491.483 $\pm$ 0.089 χ^2 /NDF: 4101978.0/38

cor_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 259.689 $\pm$ 709.700 χ^2 /NDF: 19.4/15

Left Out: -651.124 $\pm$ 1205.093 χ^2 /NDF:3.0/2

Right Out: 130.049 $\pm$ 713.724 χ^2 /NDF: 18.0/17

Left In: -935.609 $\pm$ 1313.674 χ^2 /NDF:1.1/1

Left: -781.126 $\pm$ 888.039 χ^2 /NDF: 4.1/4

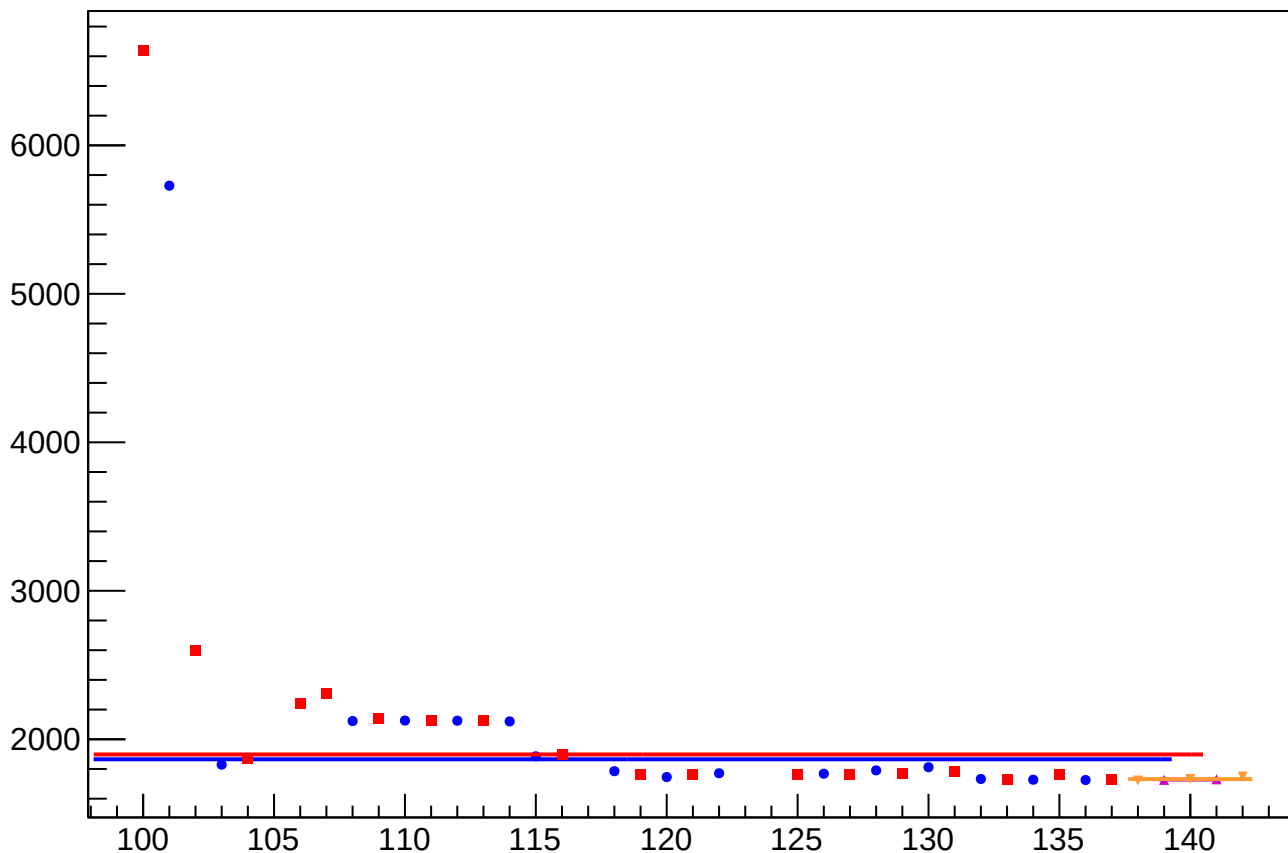
Right: 195.236 $\pm$ 503.250 χ^2 /NDF: 37.4/33

In: -10.355 $\pm$ 624.406 χ^2 /NDF:21.1/17

Out: -72.806 $\pm$ 614.101 χ^2 /NDF:21.3/20

All: -42.100 $\pm$ 437.833 χ^2 /NDF: 42.5/38

cor_asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1865.170+/-0.502 χ^2/NDF : 672724.7/15

Left Out: 1731.686+/-0.852 χ^2/NDF :134.4/2

Right Out: 1897.700+/-0.505 χ^2/NDF : 257735.0/17

Left In: 1728.741+/-0.929 χ^2/NDF :4.2/1

Left: 1730.341+/-0.628 χ^2/NDF : 144.0/4

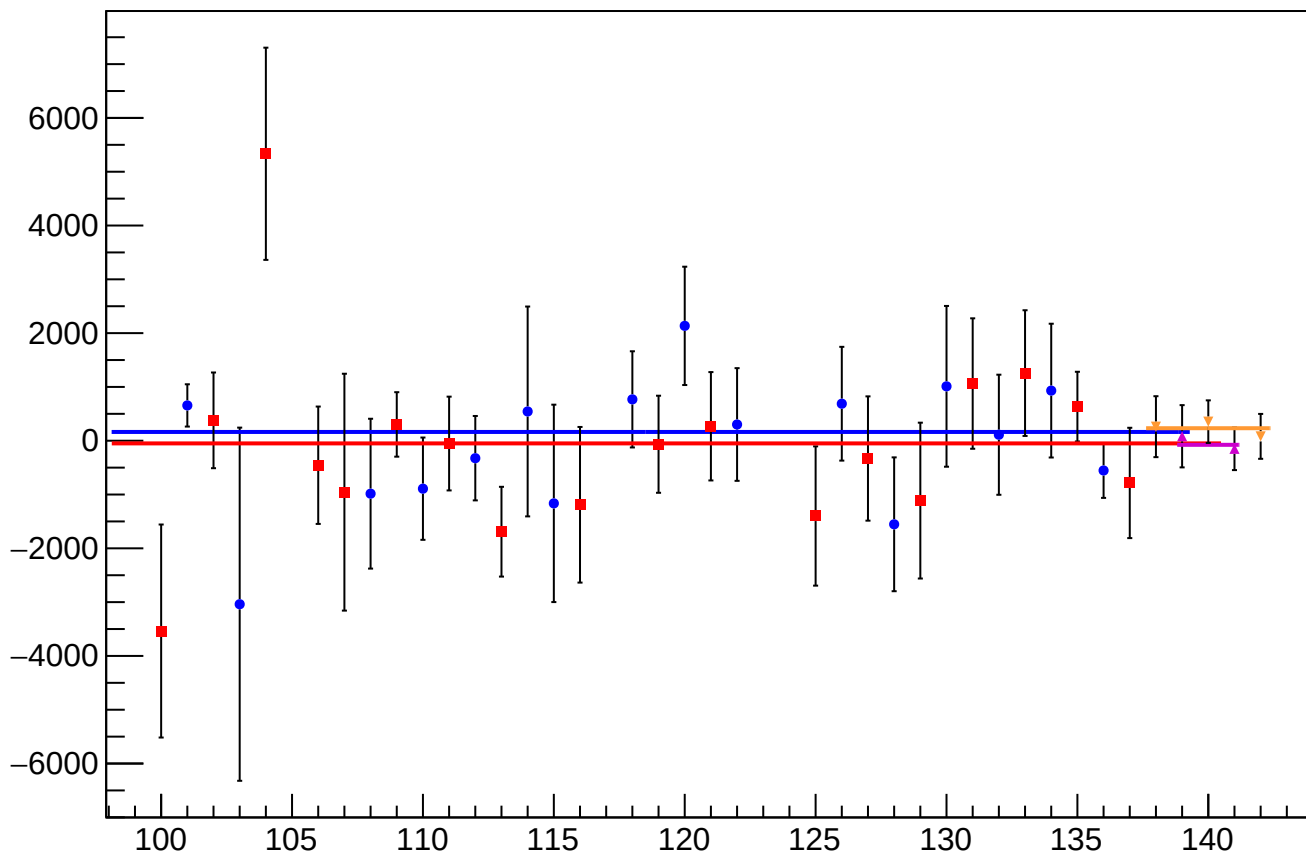
Right: 1881.343+/-0.356 χ^2/NDF : 932548.8/33

In: 1834.348+/-0.442 χ^2/NDF :689426.4/17

Out: 1854.590+/-0.434 χ^2/NDF :285968.8/20

All: 1844.637+/-0.310 χ^2/NDF : 976463.6/38

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 163.149 $\pm$ 220.024 χ^2 /NDF: 13.9/15

Left Out: 232.563 $\pm$ 256.094 χ^2 /NDF:0.2/2

Right Out: -49.618 $\pm$ 238.198 χ^2 /NDF: 21.4/17

Left In: -76.137 $\pm$ 326.408 χ^2 /NDF:0.1/1

Left: 114.941 $\pm$ 201.482 χ^2 /NDF: 0.9/4

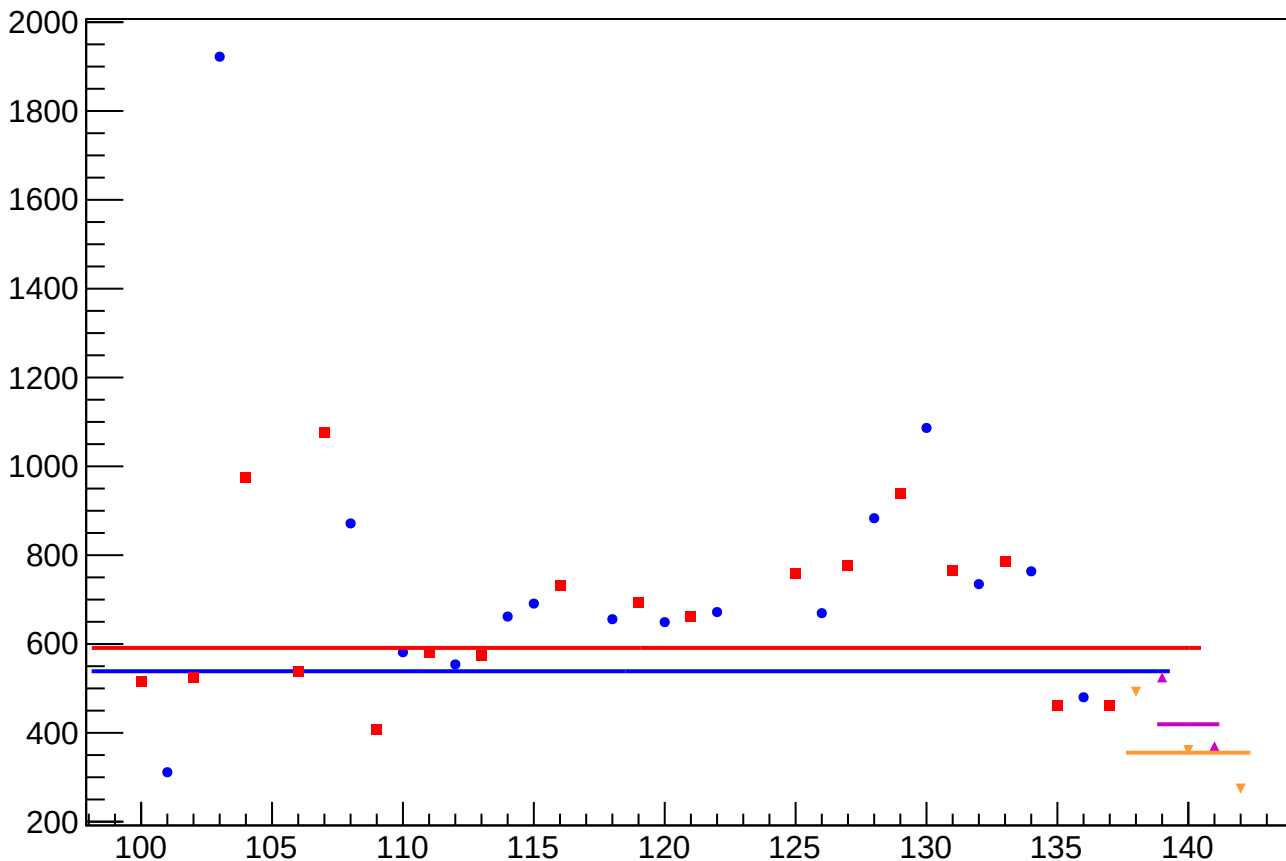
Right: 65.191 $\pm$ 161.624 χ^2 /NDF: 35.8/33

In: 88.391 $\pm$ 182.445 χ^2 /NDF:14.4/17

Out: 81.269 $\pm$ 174.415 χ^2 /NDF:22.3/20

All: 84.670 $\pm$ 126.073 χ^2 /NDF: 36.7/38

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 538.703 $\pm$ 0.156 χ^2 /NDF: 1858892.9/15

Left Out: 355.327 $\pm$ 0.181 χ^2 /NDF:193285.2/2

Right Out: 591.241 $\pm$ 0.168 χ^2 /NDF: 844536.8/17

Left In: 419.276 $\pm$ 0.231 χ^2 /NDF:97821.2/1

Left: 379.693 $\pm$ 0.142 χ^2 /NDF: 338623.7/4

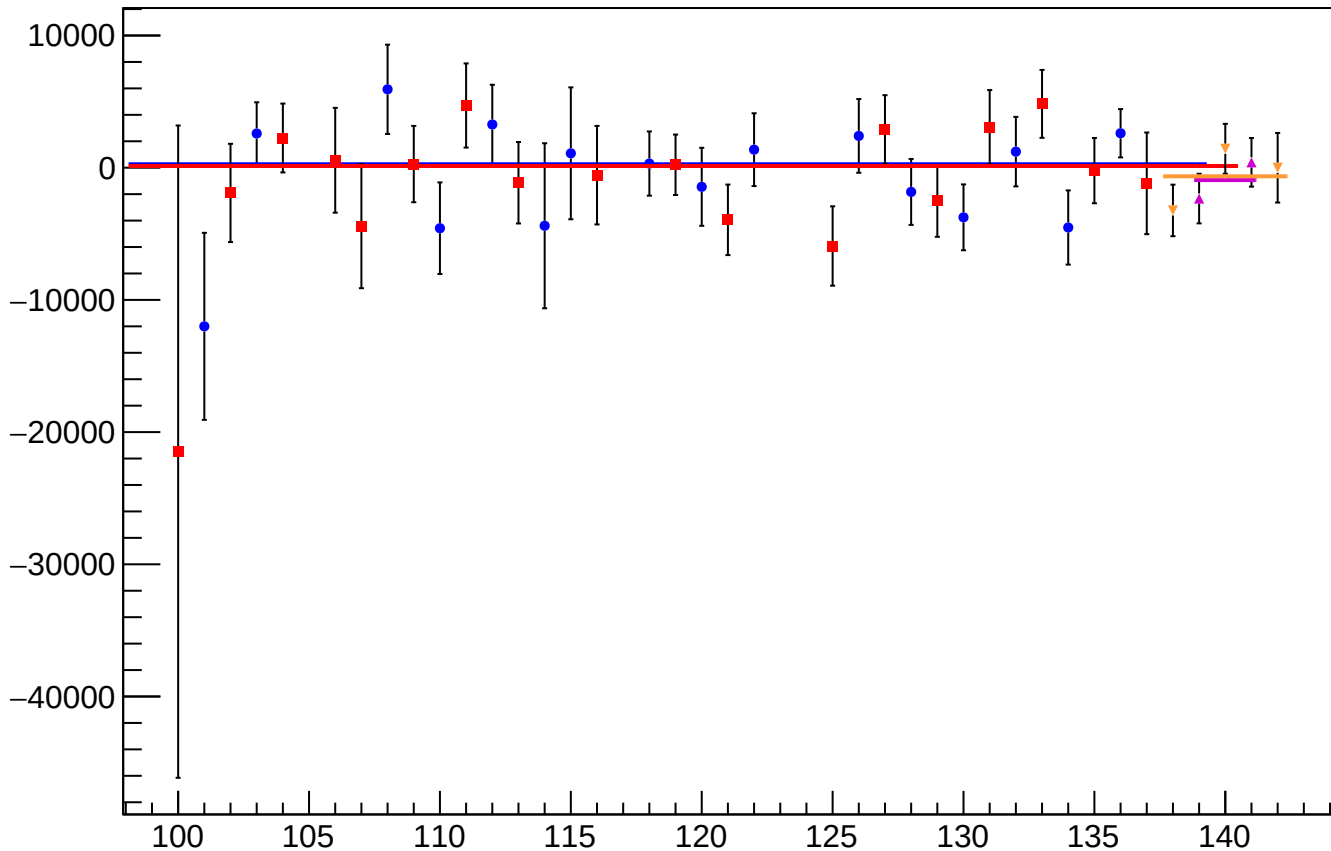
Right: 562.892 $\pm$ 0.114 χ^2 /NDF: 2755931.5/33

In: 501.391 $\pm$ 0.129 χ^2 /NDF:2140808.6/17

Out: 481.814 $\pm$ 0.123 χ^2 /NDF:1947809.1/20

All: 491.163 $\pm$ 0.089 χ^2 /NDF: 4100649.9/38

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 259.689+/-709.700 χ^2/NDF : 19.4/15

Left Out: -651.124+/-1205.093 χ^2/NDF : 3.0/2

Right Out: 130.049+/-713.724 χ^2/NDF : 18.0/17

Left In: -935.609+/-1313.674 χ^2/NDF : 1.1/1

Left: -781.126+/-888.039 χ^2/NDF : 4.1/4

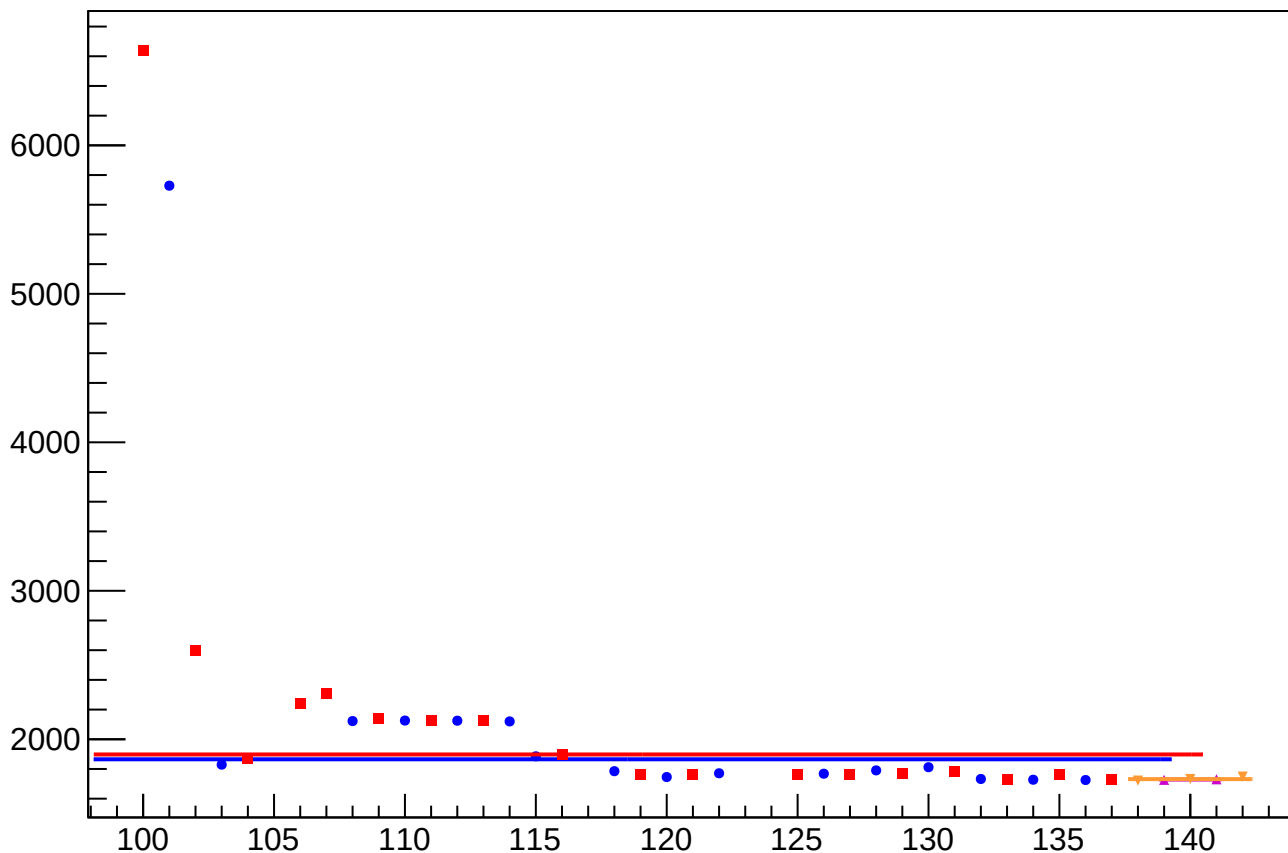
Right: 195.236+/-503.250 χ^2/NDF : 37.4/33

In: -10.355+/-624.406 χ^2/NDF : 21.1/17

Out: -72.806+/-614.101 χ^2/NDF : 21.3/20

All: -42.100+/-437.833 χ^2/NDF : 42.5/38

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1865.170+/-0.502 χ^2/NDF : 672724.7/15

Left Out: 1731.686+/-0.852 χ^2/NDF :134.4/2

Right Out: 1897.700+/-0.505 χ^2/NDF : 257735.0/17

Left In: 1728.741+/-0.929 χ^2/NDF :4.2/1

Left: 1730.341+/-0.628 χ^2/NDF : 144.0/4

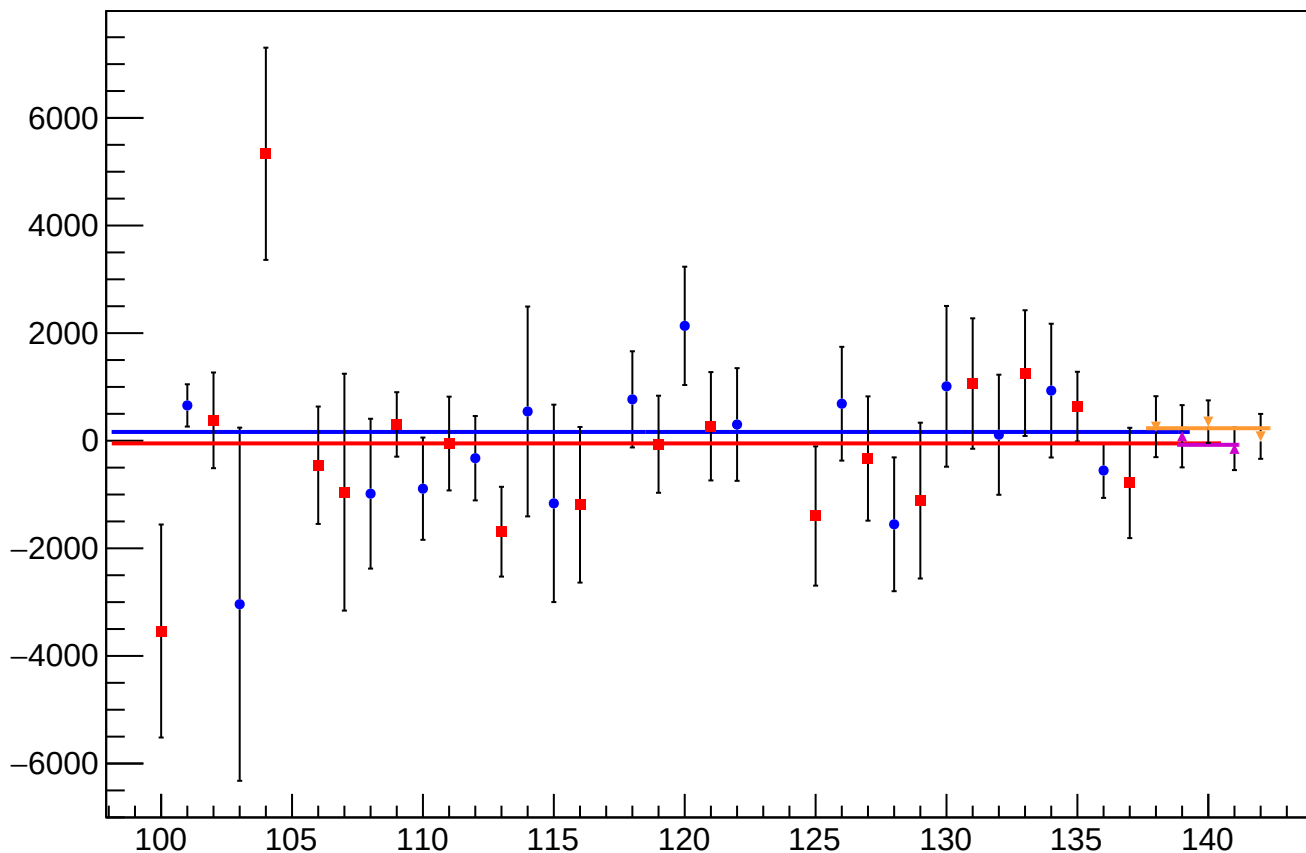
Right: 1881.343+/-0.356 χ^2/NDF : 932548.8/33

In: 1834.348+/-0.442 χ^2/NDF :689426.4/17

Out: 1854.590+/-0.434 χ^2/NDF :285968.8/20

All: 1844.637+/-0.310 χ^2/NDF : 976463.6/38

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 163.149 $\pm$ 220.024 χ^2 /NDF: 13.9/15

Left Out: 232.563 $\pm$ 256.094 χ^2 /NDF:0.2/2

Right Out: -49.618 $\pm$ 238.198 χ^2 /NDF: 21.4/17

Left In: -76.137 $\pm$ 326.408 χ^2 /NDF:0.1/1

Left: 114.941 $\pm$ 201.482 χ^2 /NDF: 0.9/4

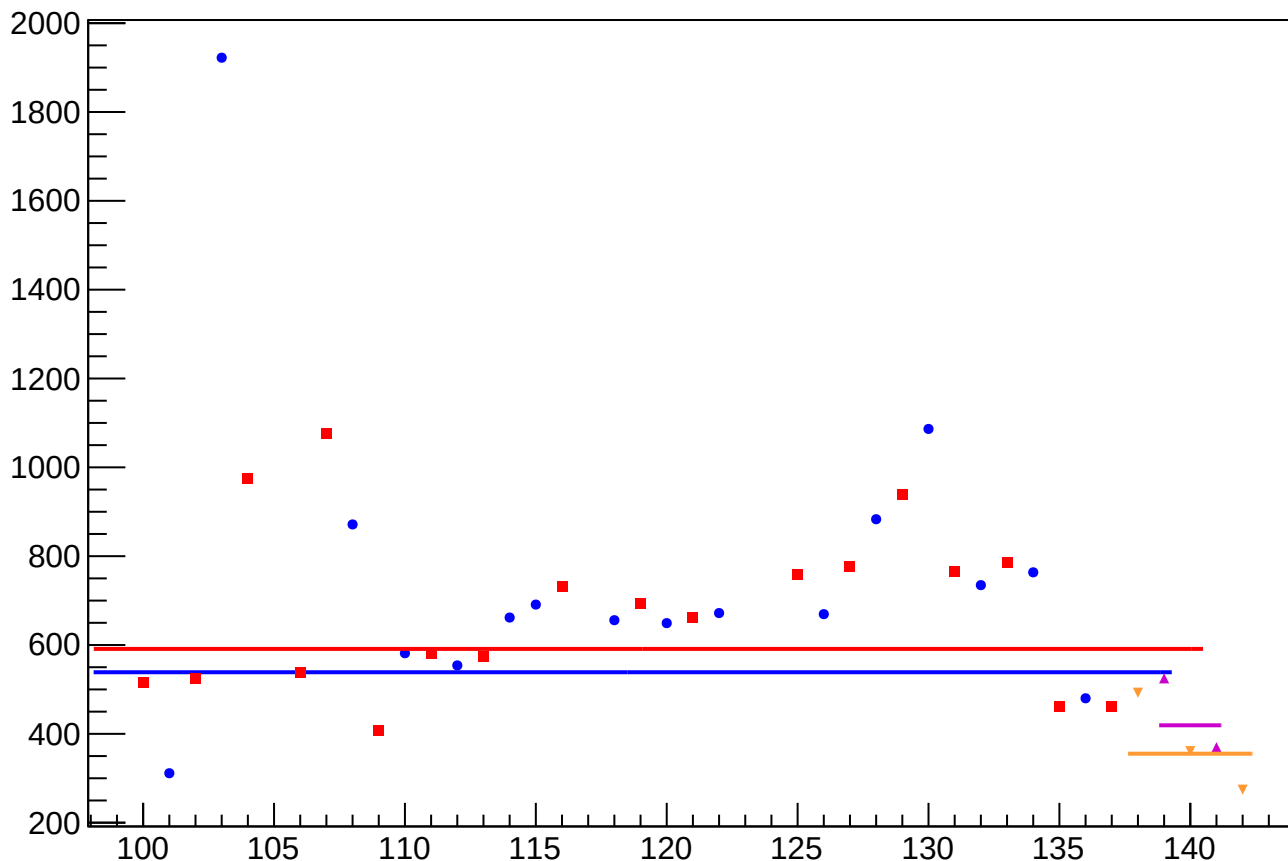
Right: 65.191 $\pm$ 161.624 χ^2 /NDF: 35.8/33

In: 88.391 $\pm$ 182.445 χ^2 /NDF:14.4/17

Out: 81.269 $\pm$ 174.415 χ^2 /NDF:22.3/20

All: 84.670 $\pm$ 126.073 χ^2 /NDF: 36.7/38

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 538.703 $\pm$ 0.156 χ^2 /NDF: 1858892.9/15

Left Out: 355.327 $\pm$ 0.181 χ^2 /NDF:193285.2/2

Right Out: 591.241 $\pm$ 0.168 χ^2 /NDF: 844536.8/17

Left In: 419.276 $\pm$ 0.231 χ^2 /NDF:97821.2/1

Left: 379.693 $\pm$ 0.142 χ^2 /NDF: 338623.7/4

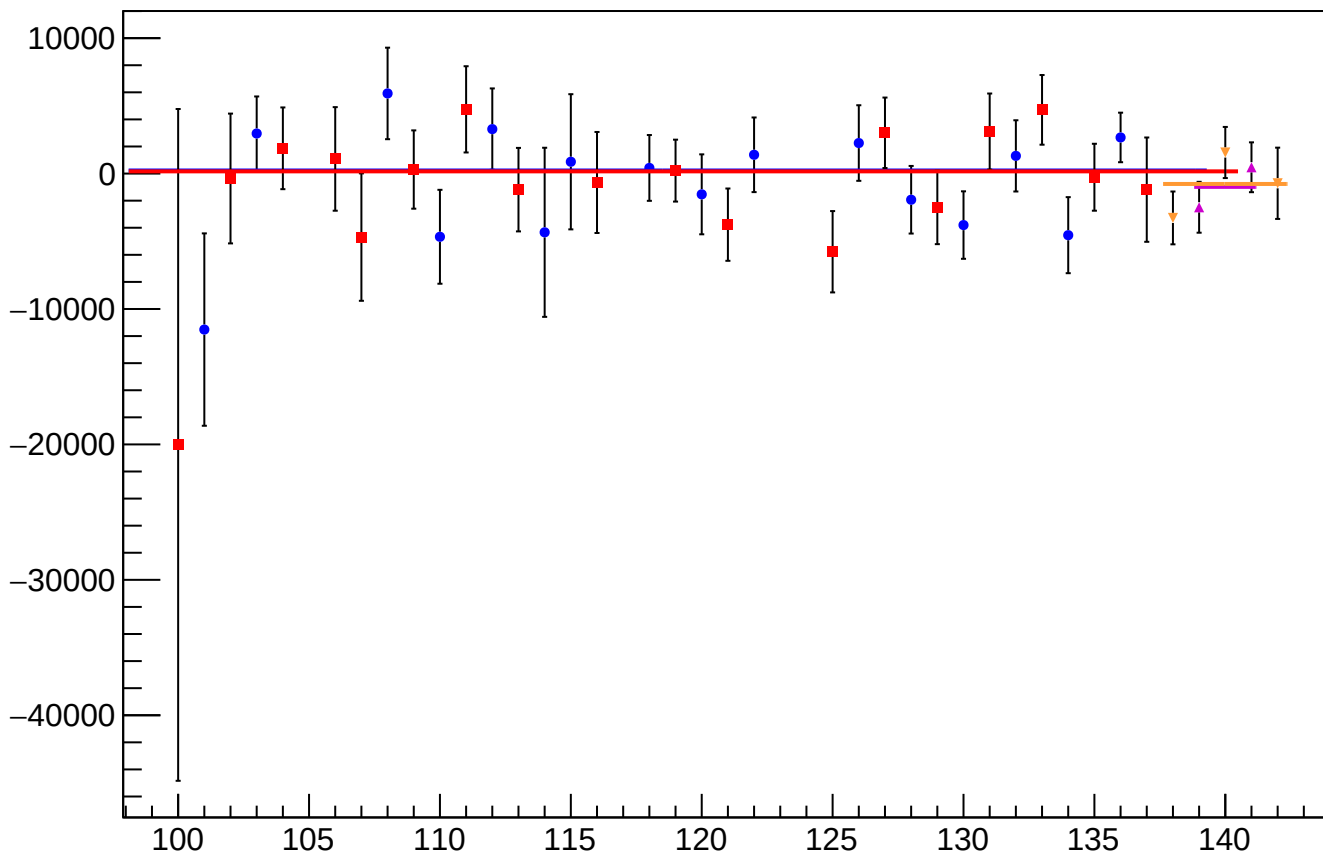
Right: 562.892 $\pm$ 0.114 χ^2 /NDF: 2755931.5/33

In: 501.391 $\pm$ 0.129 χ^2 /NDF:2140808.6/17

Out: 481.814 $\pm$ 0.123 χ^2 /NDF:1947809.1/20

All: 491.163 $\pm$ 0.089 χ^2 /NDF: 4100649.9/38

dit_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 226.227 $\pm$ 718.556 χ^2 /NDF: 19.4/15

Left Out: -767.293 $\pm$ 1205.650 χ^2 /NDF:3.2/2

Right Out: 163.711 $\pm$ 725.798 χ^2 /NDF: 17.0/17

Left In: -980.938 $\pm$ 1314.597 χ^2 /NDF:1.3/1

Left: -864.897 $\pm$ 888.547 χ^2 /NDF: 4.4/4

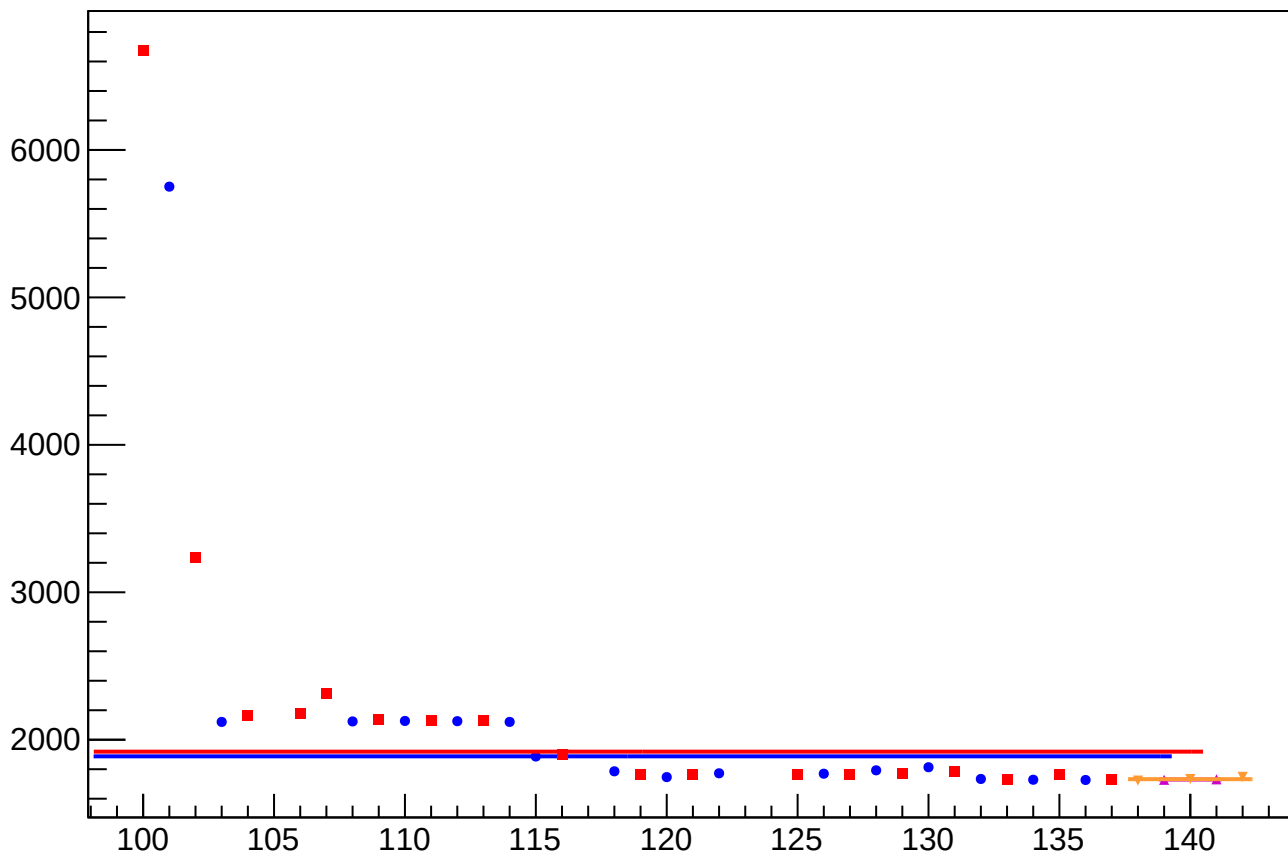
Right: 195.282 $\pm$ 510.637 χ^2 /NDF: 36.4/33

In: -51.470 $\pm$ 630.514 χ^2 /NDF:21.3/17

Out: -83.938 $\pm$ 621.818 χ^2 /NDF:20.6/20

All: -67.929 $\pm$ 442.734 χ^2 /NDF: 42.0/38

dit_asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1887.310+/-0.508 χ^2/NDF : 689442.6/15

Left Out: 1732.479+/-0.853 χ^2/NDF :120.3/2

Right Out: 1919.164+/-0.513 χ^2/NDF : 352567.1/17

Left In: 1729.943+/-0.930 χ^2/NDF :3.0/1

Left: 1731.321+/-0.628 χ^2/NDF : 127.4/4

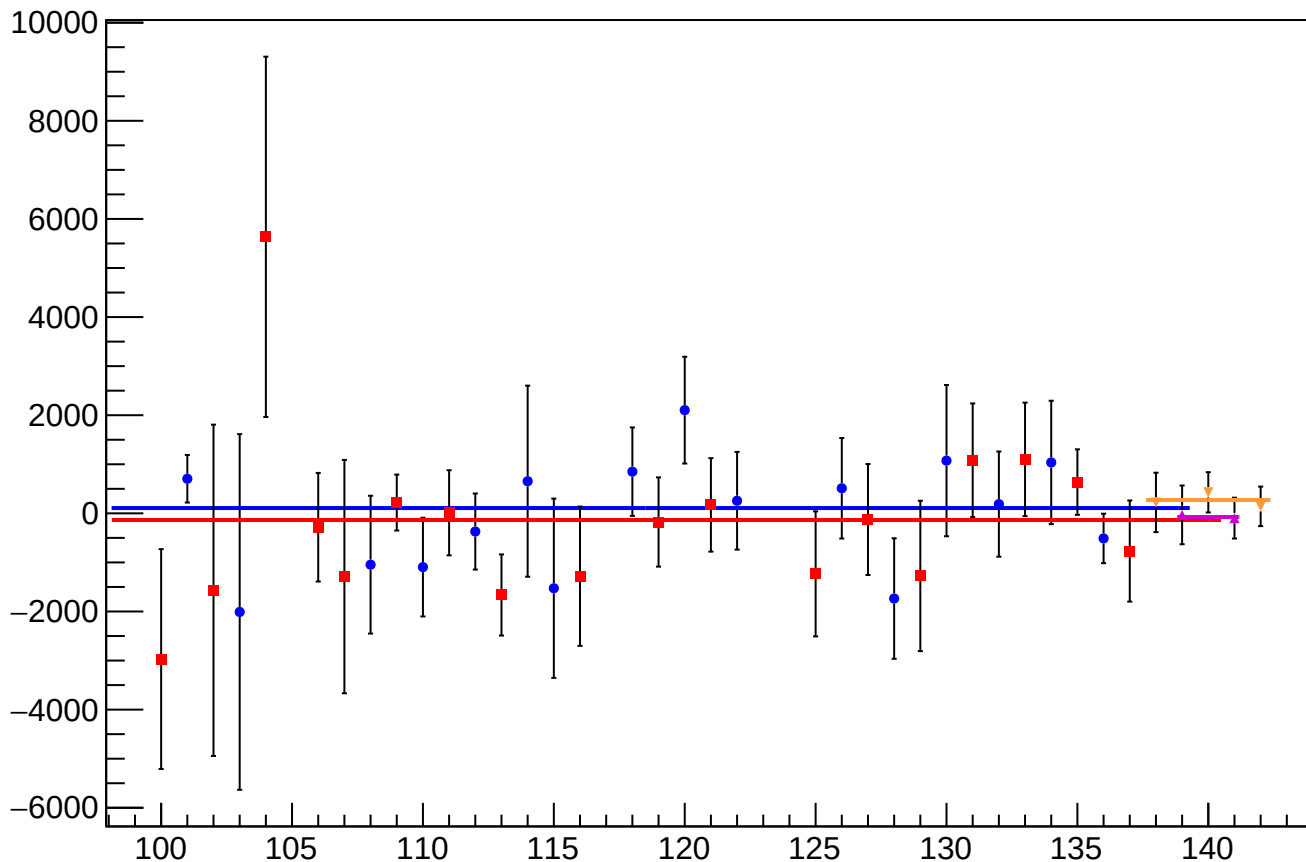
Right: 1903.077+/-0.361 χ^2/NDF : 1043955.3/33

In: 1851.109+/-0.446 χ^2/NDF :711512.4/17

Out: 1869.506+/-0.440 χ^2/NDF :387884.2/20

All: 1860.435+/-0.313 χ^2/NDF : 1100259.7/38

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 108.131 $\pm$ 231.711 χ^2 /NDF: 14.2/15

Left Out: 271.899 $\pm$ 259.601 χ^2 /NDF:0.3/2

Right Out: -135.358 $\pm$ 245.933 χ^2 /NDF: 14.4/17

Left In: -75.333 $\pm$ 341.769 χ^2 /NDF:0.0/1

Left: 144.857 $\pm$ 206.727 χ^2 /NDF: 0.9/4

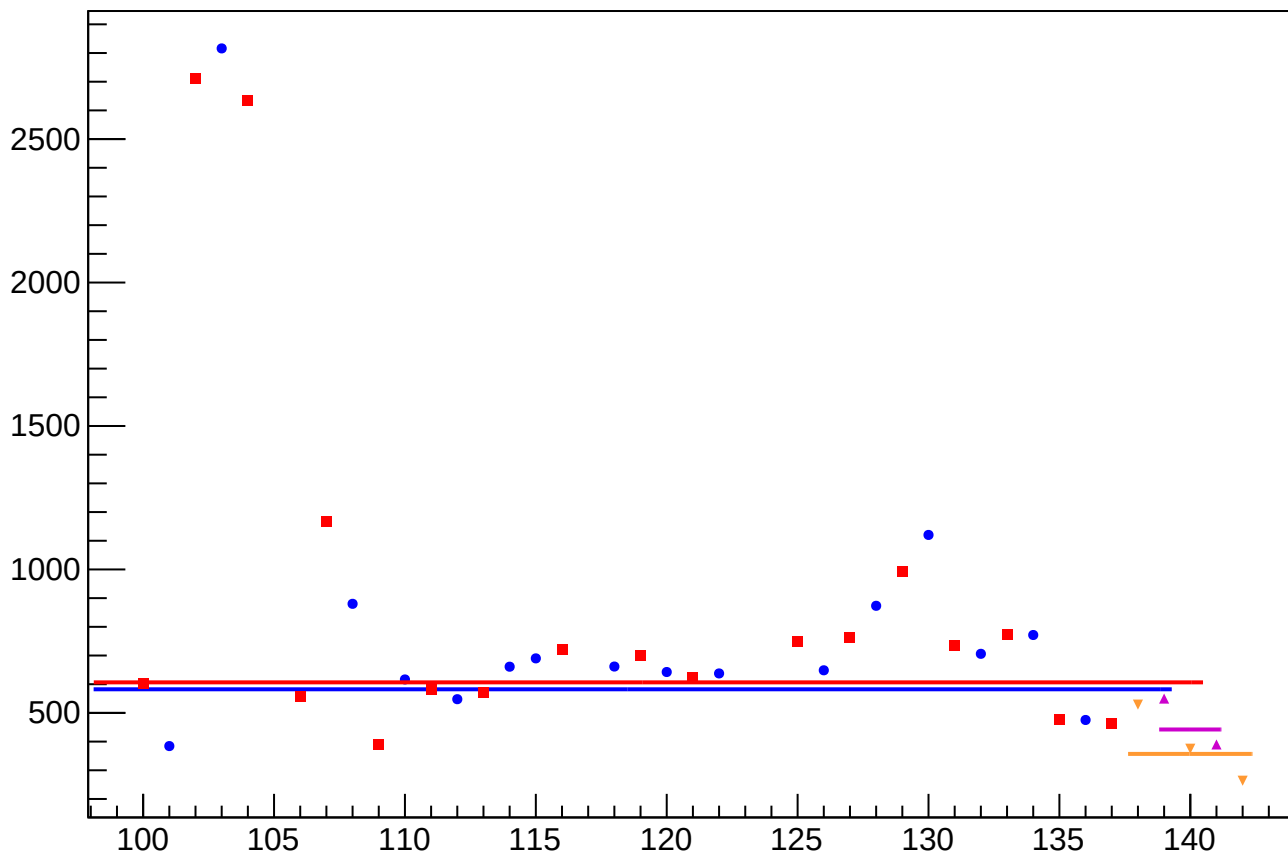
Right: -6.369 $\pm$ 168.648 χ^2 /NDF: 29.0/33

In: 50.358 $\pm$ 191.788 χ^2 /NDF:14.4/17

Out: 57.268 $\pm$ 178.538 χ^2 /NDF:15.9/20

All: 54.060 $\pm$ 130.679 χ^2 /NDF: 30.3/38

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 582.270+/-0.164 χ^2/NDF : 1754301.3/15

Left Out: 357.070+/-0.184 χ^2/NDF : 272724.1/2

Right Out: 606.451+/-0.174 χ^2/NDF : 2198399.5/17

Left In: 442.180+/-0.242 χ^2/NDF : 96214.4/1

Left: 388.209+/-0.146 χ^2/NDF : 447587.6/4

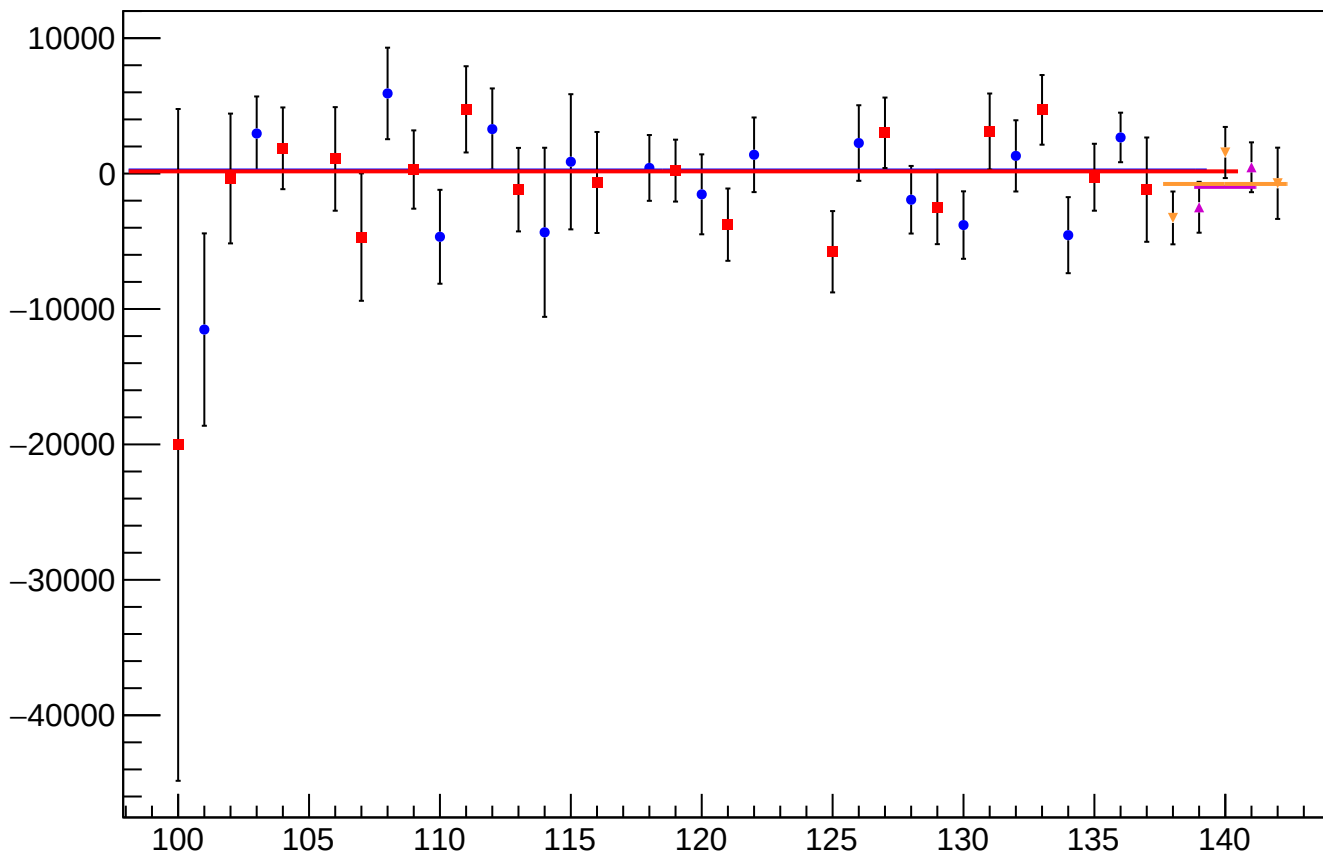
Right: 593.641+/-0.119 χ^2/NDF : 3962943.2/33

In: 538.155+/-0.136 χ^2/NDF : 2080730.6/17

Out: 488.498+/-0.126 χ^2/NDF : 3443792.3/20

All: 511.552+/-0.092 χ^2/NDF : 5596351.3/38

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 226.227 $\pm$ 718.556 χ^2 /NDF: 19.4/15

Left Out: -767.293 $\pm$ 1205.650 χ^2 /NDF:3.2/2

Right Out: 163.711 $\pm$ 725.798 χ^2 /NDF: 17.0/17

Left In: -980.938 $\pm$ 1314.597 χ^2 /NDF:1.3/1

Left: -864.897 $\pm$ 888.547 χ^2 /NDF: 4.4/4

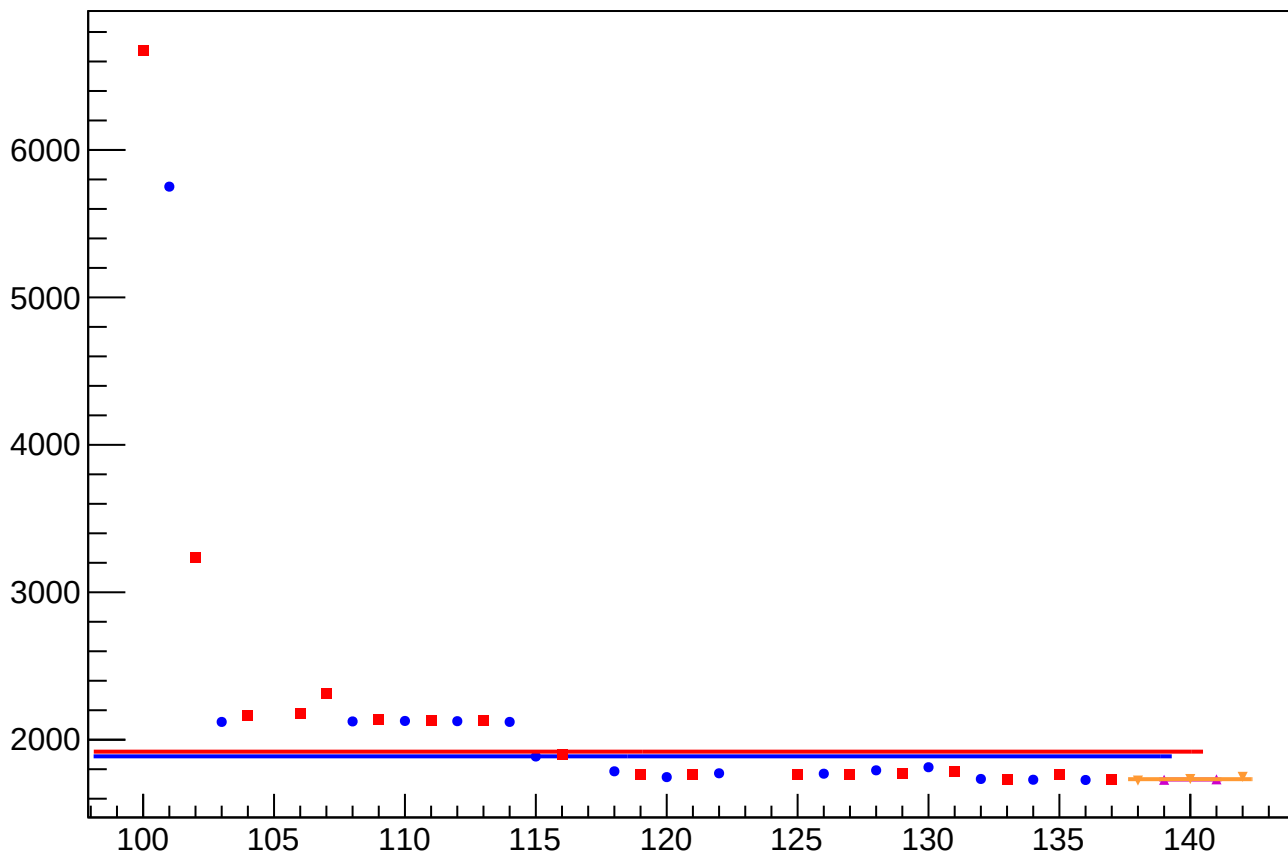
Right: 195.283 $\pm$ 510.637 χ^2 /NDF: 36.4/33

In: -51.469 $\pm$ 630.514 χ^2 /NDF:21.3/17

Out: -83.937 $\pm$ 621.818 χ^2 /NDF:20.6/20

All: -67.929 $\pm$ 442.734 χ^2 /NDF: 42.0/38

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1887.310+/-0.508 χ^2/NDF : 689442.4/15

Left Out: 1732.479+/-0.853 χ^2/NDF :120.3/2

Right Out: 1919.164+/-0.513 χ^2/NDF : 352566.4/17

Left In: 1729.943+/-0.930 χ^2/NDF :3.0/1

Left: 1731.321+/-0.628 χ^2/NDF : 127.4/4

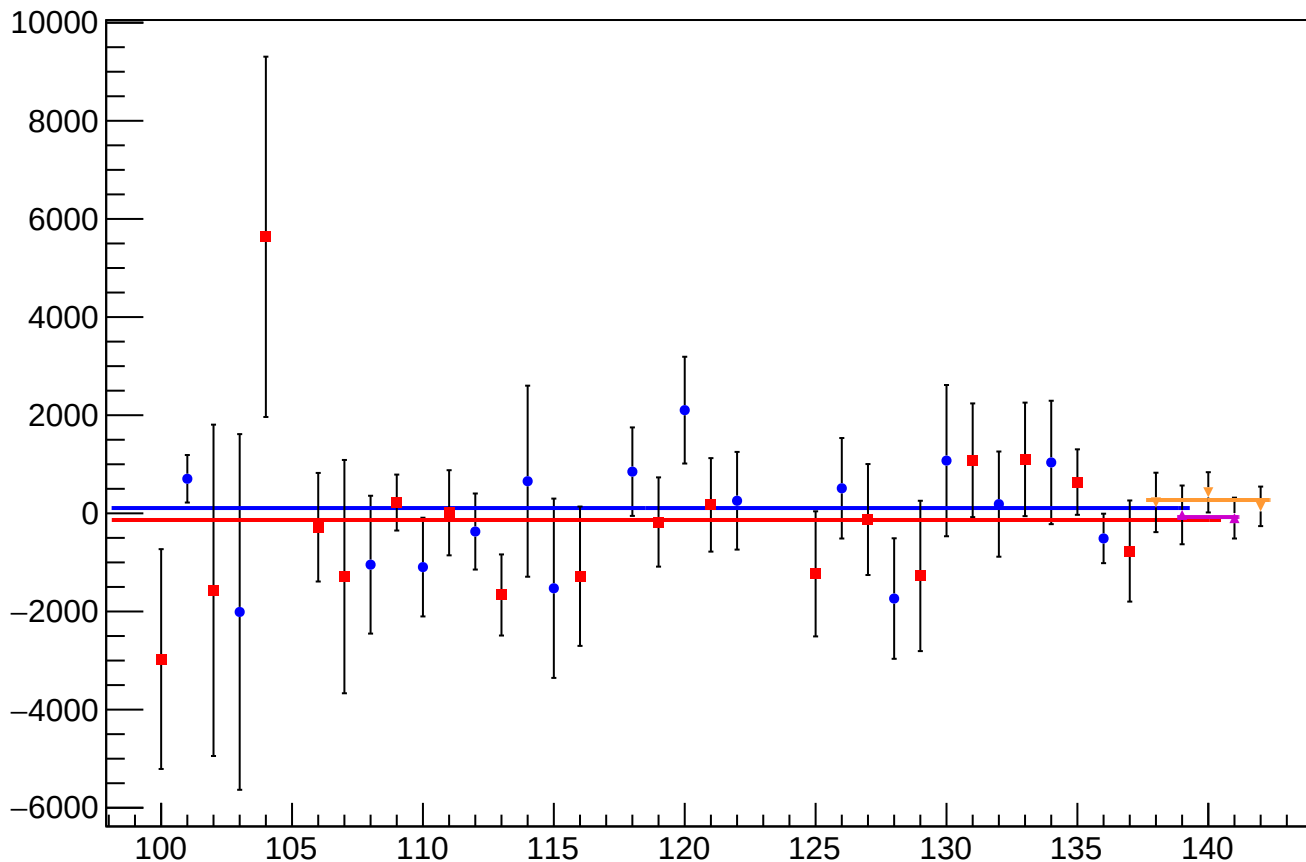
Right: 1903.077+/-0.361 χ^2/NDF : 1043954.3/33

In: 1851.109+/-0.446 χ^2/NDF :711512.1/17

Out: 1869.506+/-0.440 χ^2/NDF :387883.4/20

All: 1860.435+/-0.313 χ^2/NDF : 1100258.6/38

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 108.128+/-231.710 χ^2/NDF : 14.2/15

Left Out: 271.895+/-259.603 χ^2/NDF : 0.3/2

Right Out: -135.356+/-245.932 χ^2/NDF : 14.4/17

Left In: -75.333+/-341.771 χ^2/NDF : 0.0/1

Left: 144.854+/-206.728 χ^2/NDF : 0.9/4

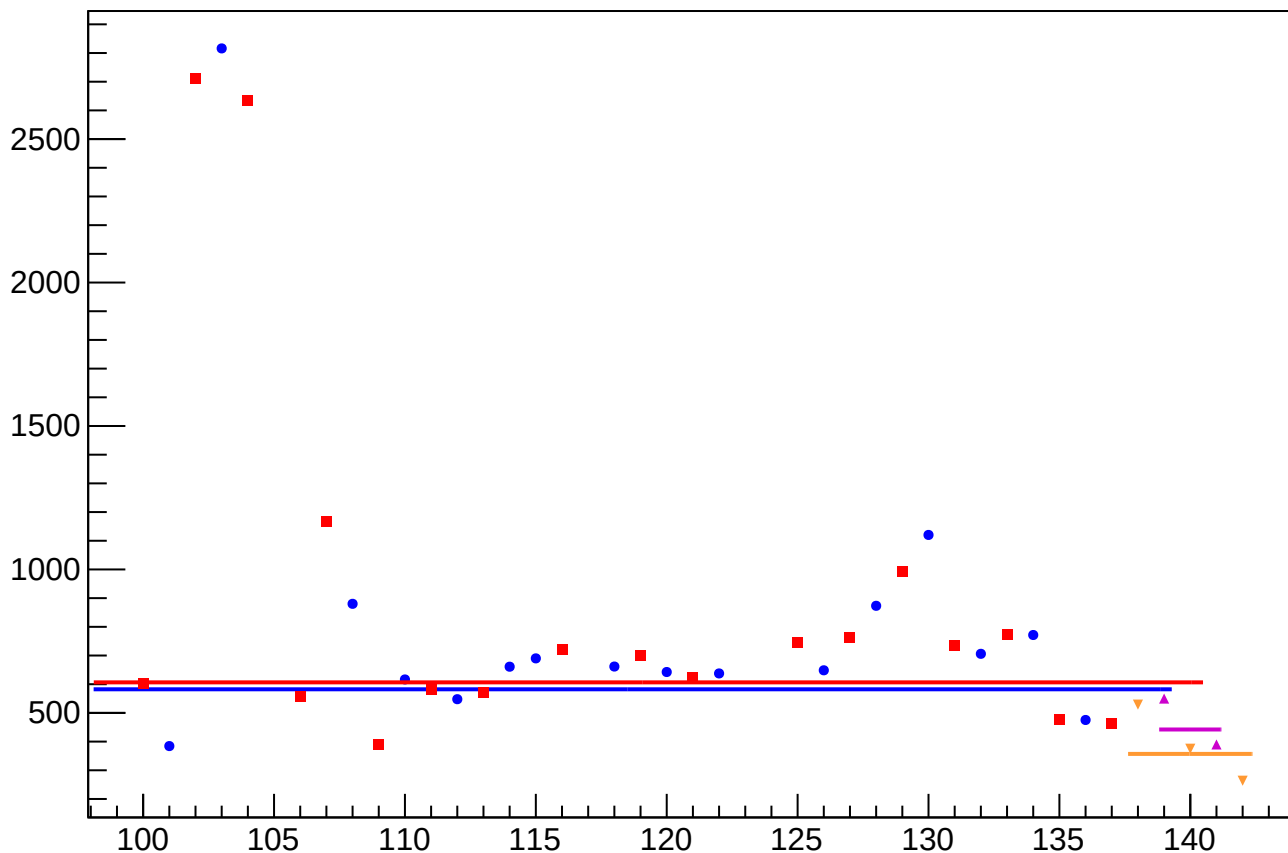
Right: -6.371+/-168.647 χ^2/NDF : 29.0/33

In: 50.356+/-191.788 χ^2/NDF : 14.4/17

Out: 57.264+/-178.538 χ^2/NDF : 15.9/20

All: 54.057+/-130.679 χ^2/NDF : 30.3/38

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 582.268+/-0.164 χ^2/NDF : 1754289.3/15

Left Out: 357.073+/-0.184 χ^2/NDF : 272719.9/2

Right Out: 606.447+/-0.174 χ^2/NDF : 2198414.3/17

Left In: 442.181+/-0.242 χ^2/NDF : 96215.9/1

Left: 388.212+/-0.146 χ^2/NDF : 447582.2/4

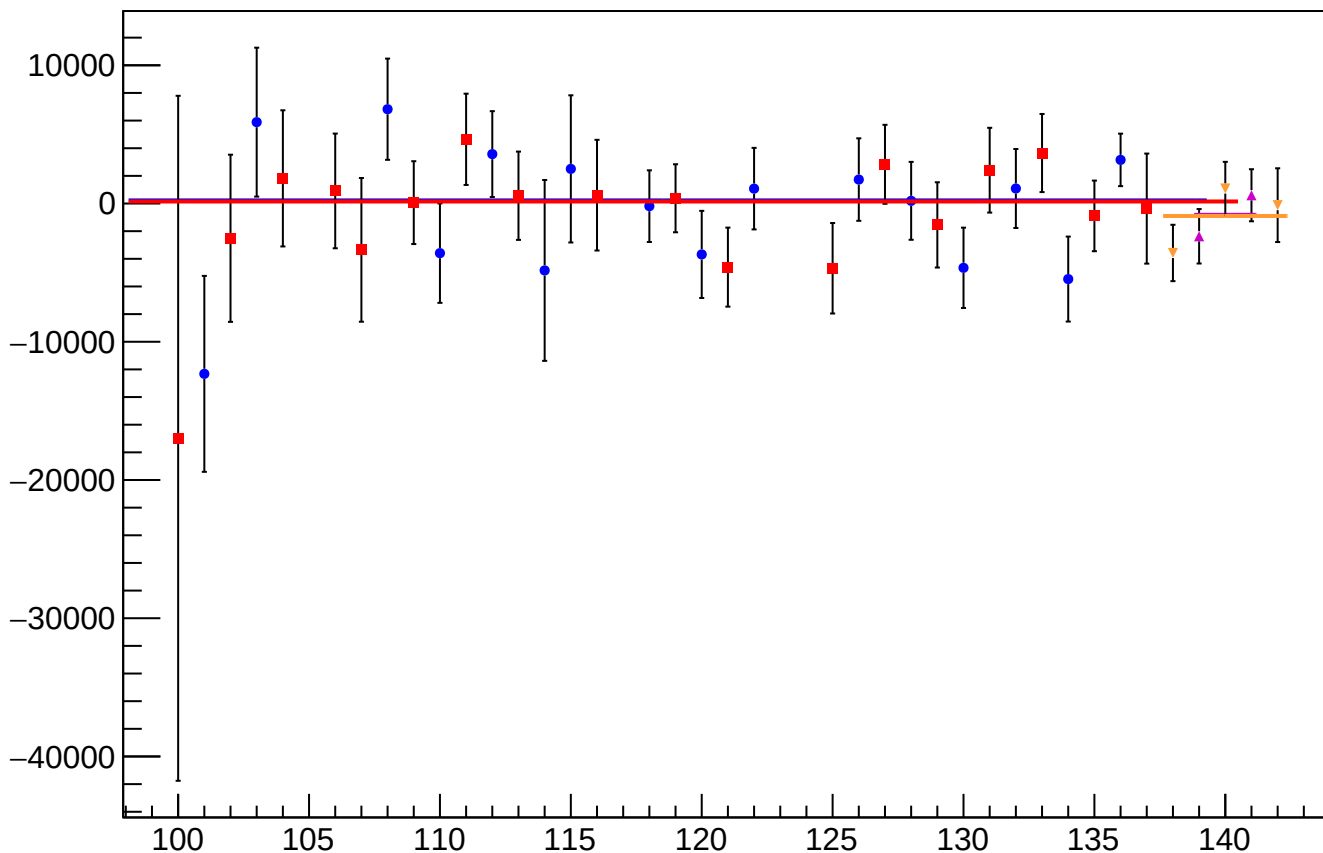
Right: 593.638+/-0.119 χ^2/NDF : 3962944.4/33

In: 538.155+/-0.136 χ^2/NDF : 2080709.0/17

Out: 488.499+/-0.126 χ^2/NDF : 3443752.5/20

All: 511.552+/-0.092 χ^2/NDF : 5596286.9/38

asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 224.521+/-791.678 χ^2/NDF : 21.2/15

Left Out: -901.407+/-1240.682 χ^2/NDF : 2.9/2

Right Out: 147.974+/-794.180 χ^2/NDF : 11.6/17

Left In: -818.389+/-1361.333 χ^2/NDF : 1.2/1

Left: -863.739+/-916.988 χ^2/NDF : 4.1/4

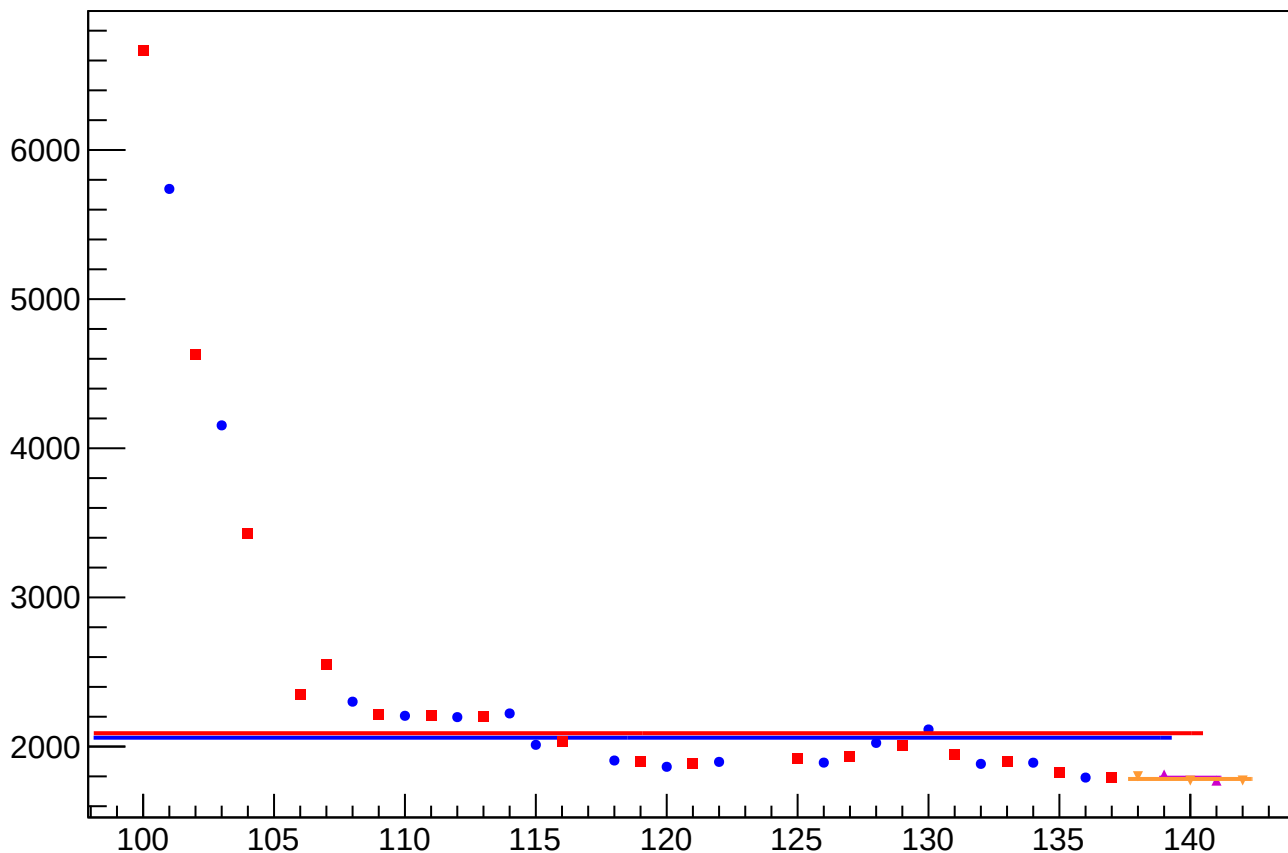
Right: 186.369+/-560.683 χ^2/NDF : 32.7/33

In: -39.049+/-684.366 χ^2/NDF : 22.8/17

Out: -157.032+/-668.880 χ^2/NDF : 14.9/20

All: -99.390+/-478.351 χ^2/NDF : 37.8/38

asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 2059.496+/-0.560 χ^2/NDF : 939873.6/15

Left Out: 1782.752+/-0.877 χ^2/NDF :251.1/2

Right Out: 2089.476+/-0.562 χ^2/NDF : 681465.8/17

Left In: 1791.329+/-0.963 χ^2/NDF :453.1/1

Left: 1786.644+/-0.648 χ^2/NDF : 747.6/4

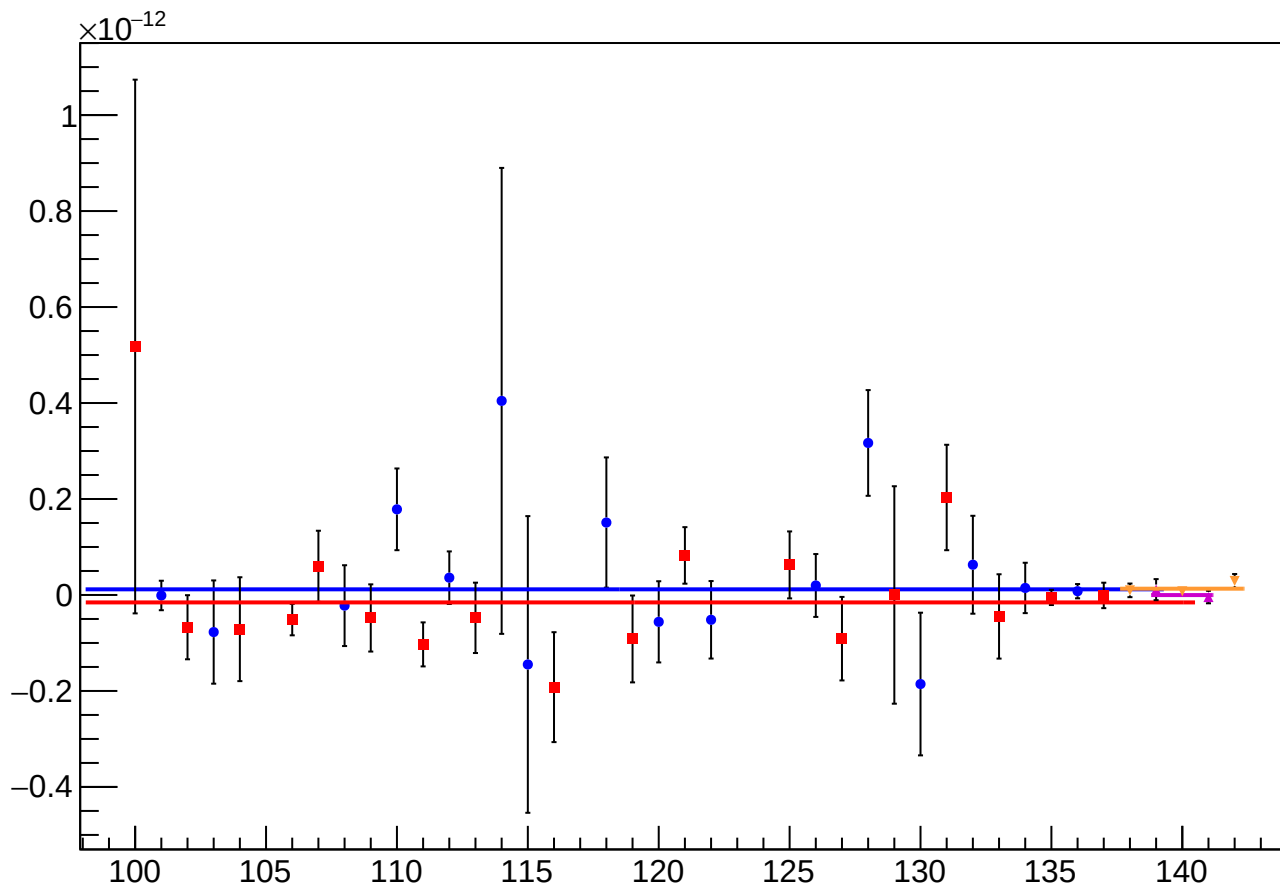
Right: 2074.439+/-0.396 χ^2/NDF : 1622768.9/33

In: 1991.724+/-0.484 χ^2/NDF :998322.0/17

Out: 2000.326+/-0.473 χ^2/NDF :768426.1/20

All: 1996.123+/-0.338 χ^2/NDF : 1766909.8/38

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1.6/2

Right Out: -0.000+/-0.000 χ^2/NDF : 20.7/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.4/1

Left: 0.000+/-0.000 χ^2/NDF : 3.0/4

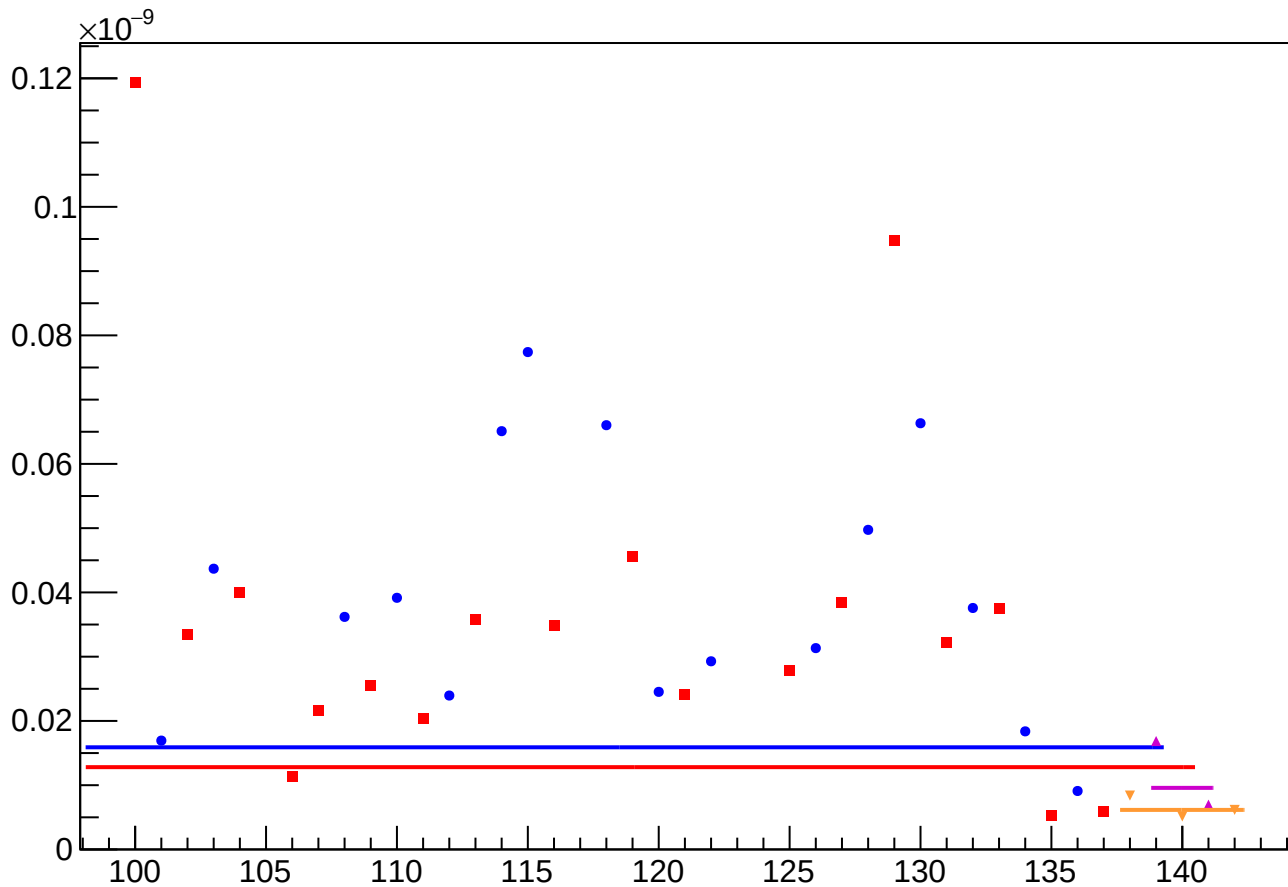
Right: -0.000+/-0.000 χ^2/NDF : 41.8/33

In: 0.000+/-0.000 χ^2/NDF : 19.0/17

Out: 0.000+/-0.000 χ^2/NDF : 27.4/20

All: 0.000+/-0.000 χ^2/NDF : 46.3/38

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1935582.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 72228.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2486058.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 300562.4/1

Left: 0.000+/-0.000 χ^2/NDF : 507022.3/4

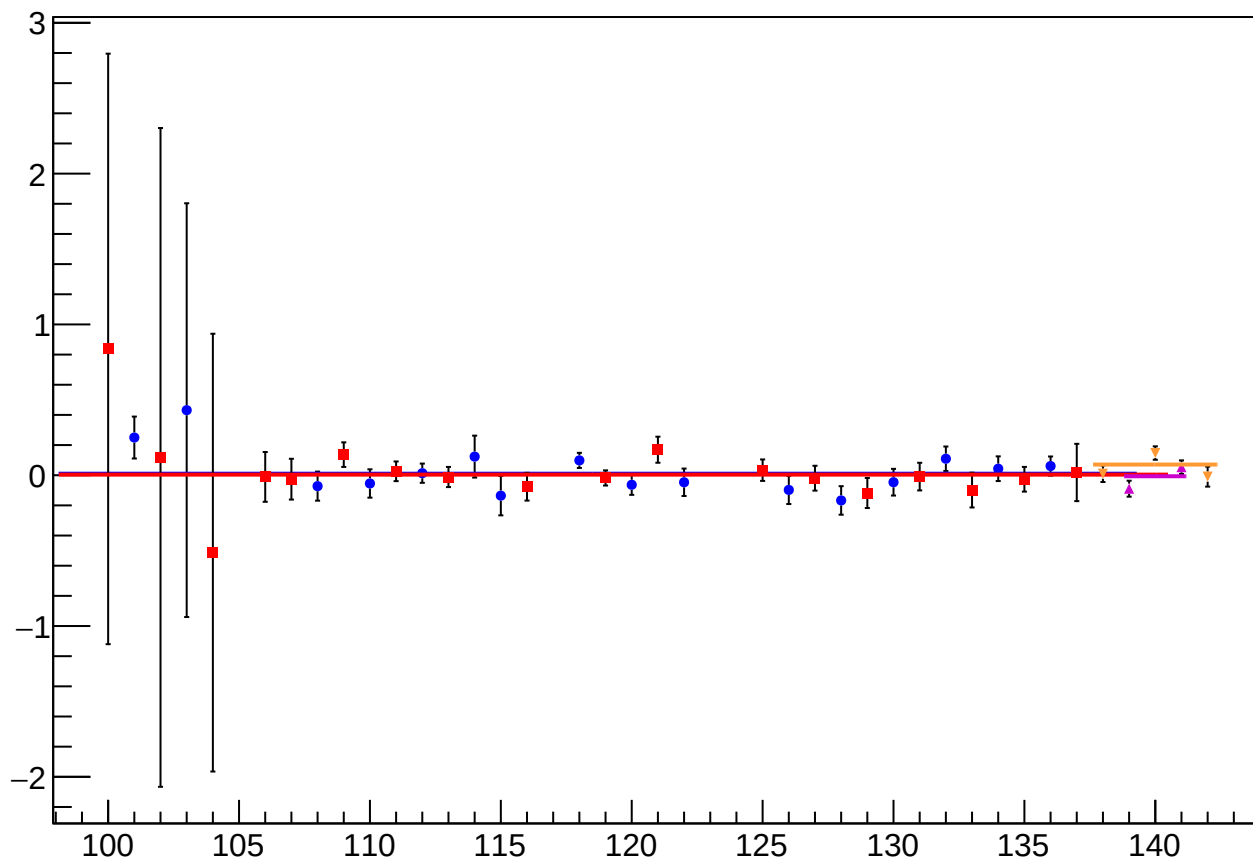
Right: 0.000+/-0.000 χ^2/NDF : 4498662.7/33

In: 0.000+/-0.000 χ^2/NDF : 2542101.4/17

Out: 0.000+/-0.000 χ^2/NDF : 3102596.5/20

All: 0.000+/-0.000 χ^2/NDF : 6053756.7/38

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.021 χ^2 /NDF: 18.4/15

Left Out: 0.071 $\pm$ 0.031 χ^2 /NDF: 5.6/2

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: -0.007 $\pm$ 0.034 χ^2 /NDF: 4.2/1

Left: 0.036 $\pm$ 0.023 χ^2 /NDF: 12.7/4

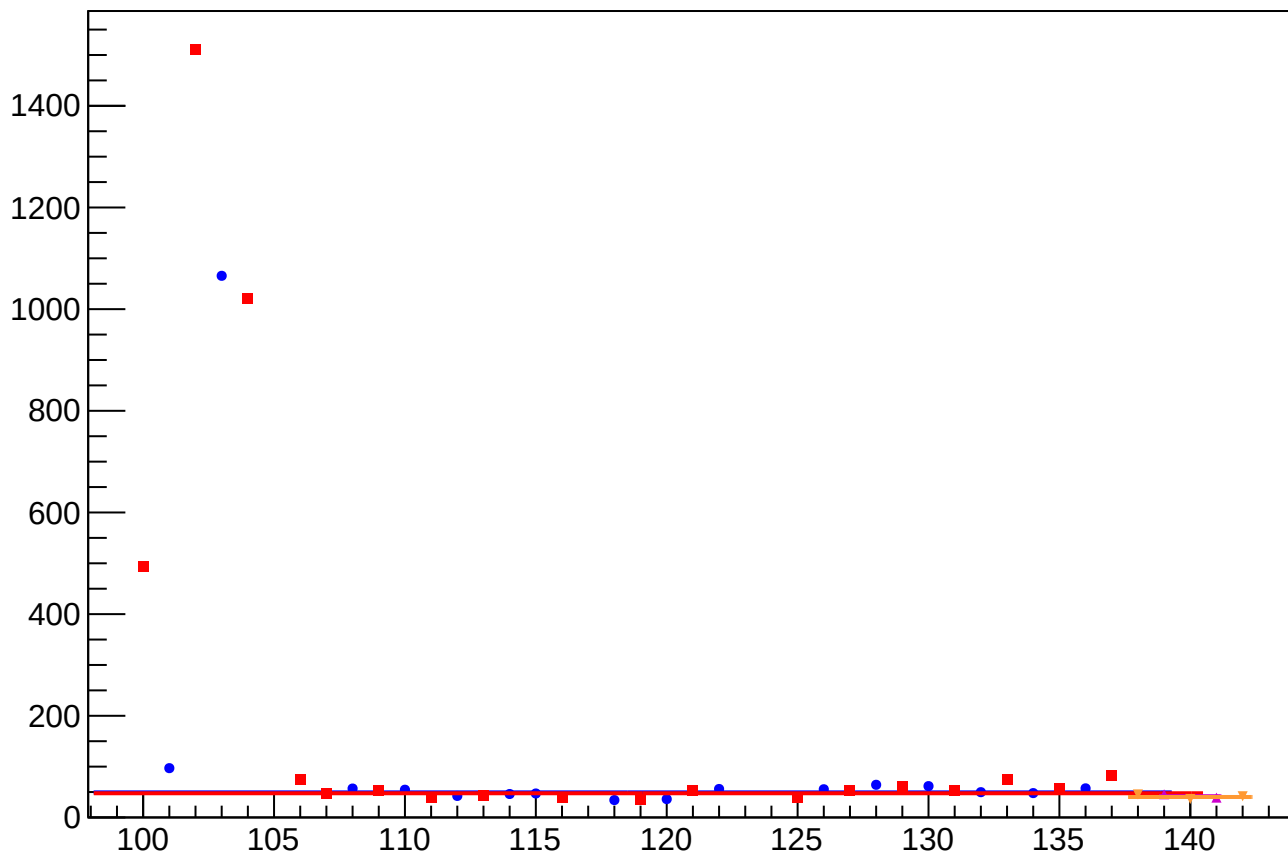
Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

In: 0.005 $\pm$ 0.018 χ^2 /NDF: 22.8/17

Out: 0.026 $\pm$ 0.018 χ^2 /NDF: 19.3/20

All: 0.016 $\pm$ 0.013 χ^2 /NDF: 42.8/38

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 49.333+/-0.015 χ^2/NDF : 1776998.3/15

Left Out: 40.267+/-0.022 χ^2/NDF : 33098.0/2

Right Out: 47.599+/-0.015 χ^2/NDF : 2418219.3/17

Left In: 41.815+/-0.024 χ^2/NDF : 17743.2/1

Left: 40.954+/-0.016 χ^2/NDF : 53103.1/4

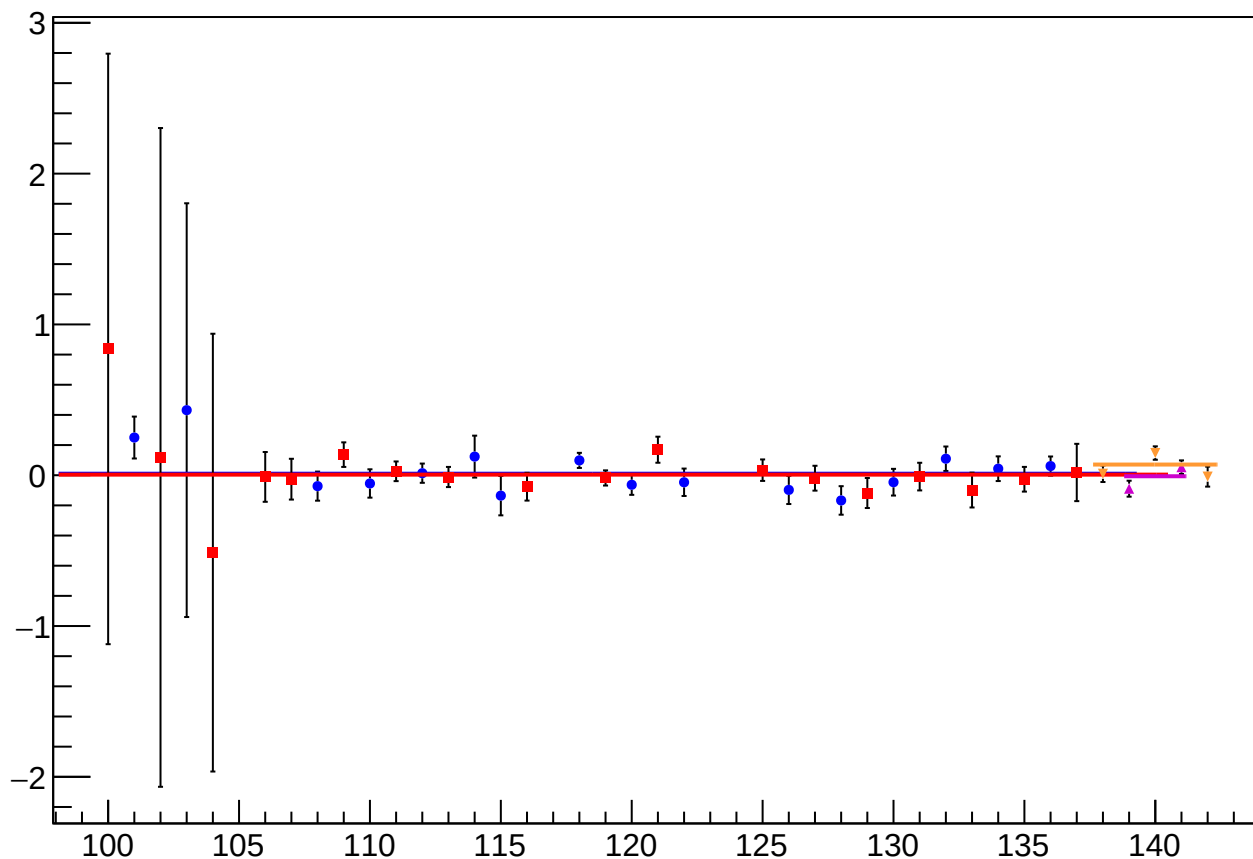
Right: 48.487+/-0.011 χ^2/NDF : 4201890.6/33

In: 47.292+/-0.013 χ^2/NDF : 1864612.0/17

Out: 45.184+/-0.012 χ^2/NDF : 2528010.6/20

All: 46.221+/-0.009 χ^2/NDF : 4406737.9/38

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.021 χ^2 /NDF: 18.4/15

Left Out: 0.071 $\pm$ 0.031 χ^2 /NDF: 5.6/2

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: -0.007 $\pm$ 0.034 χ^2 /NDF: 4.2/1

Left: 0.036 $\pm$ 0.023 χ^2 /NDF: 12.7/4

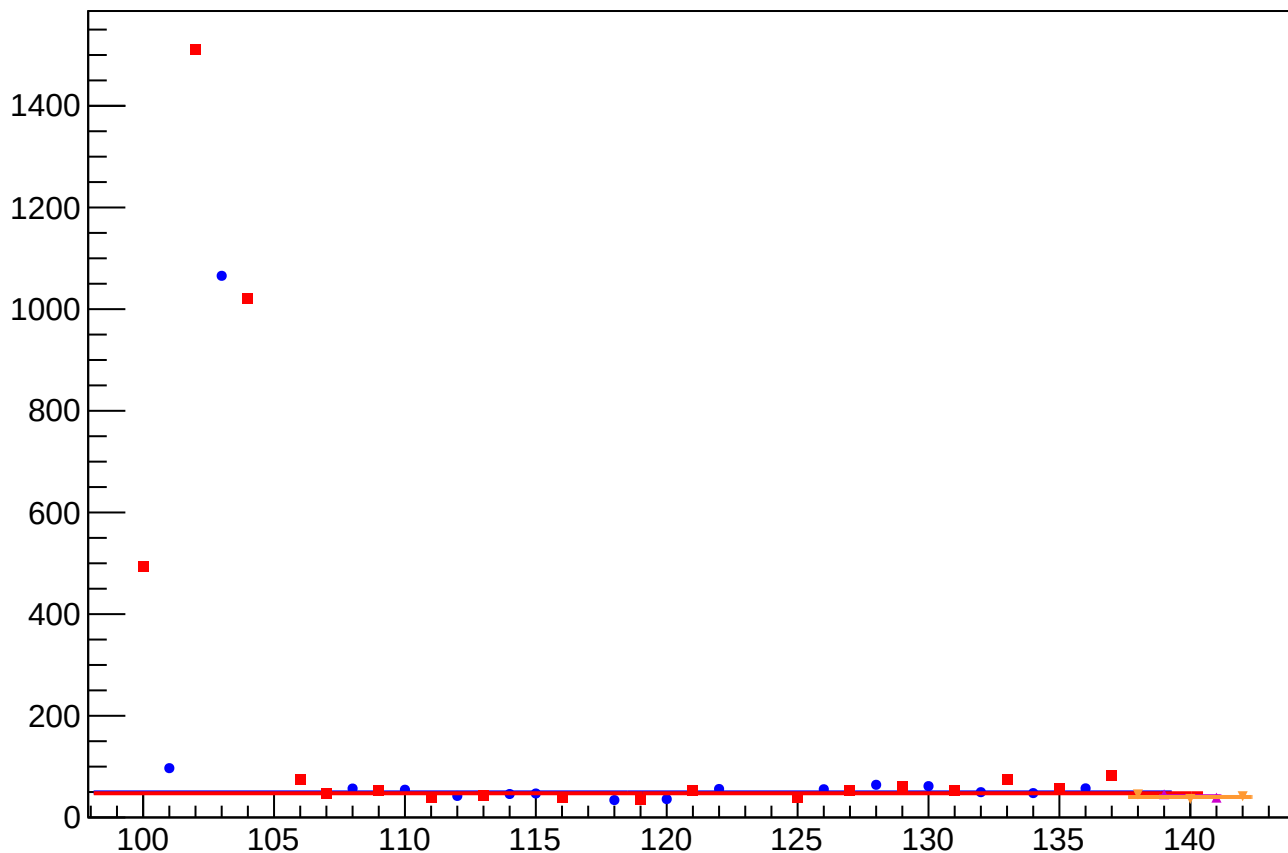
Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

In: 0.005 $\pm$ 0.018 χ^2 /NDF: 22.8/17

Out: 0.026 $\pm$ 0.018 χ^2 /NDF: 19.3/20

All: 0.016 $\pm$ 0.013 χ^2 /NDF: 42.8/38

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 49.333+/-0.015 χ^2/NDF : 1776998.3/15

Left Out: 40.267+/-0.022 χ^2/NDF : 33098.0/2

Right Out: 47.599+/-0.015 χ^2/NDF : 2418219.3/17

Left In: 41.815+/-0.024 χ^2/NDF : 17743.2/1

Left: 40.954+/-0.016 χ^2/NDF : 53103.1/4

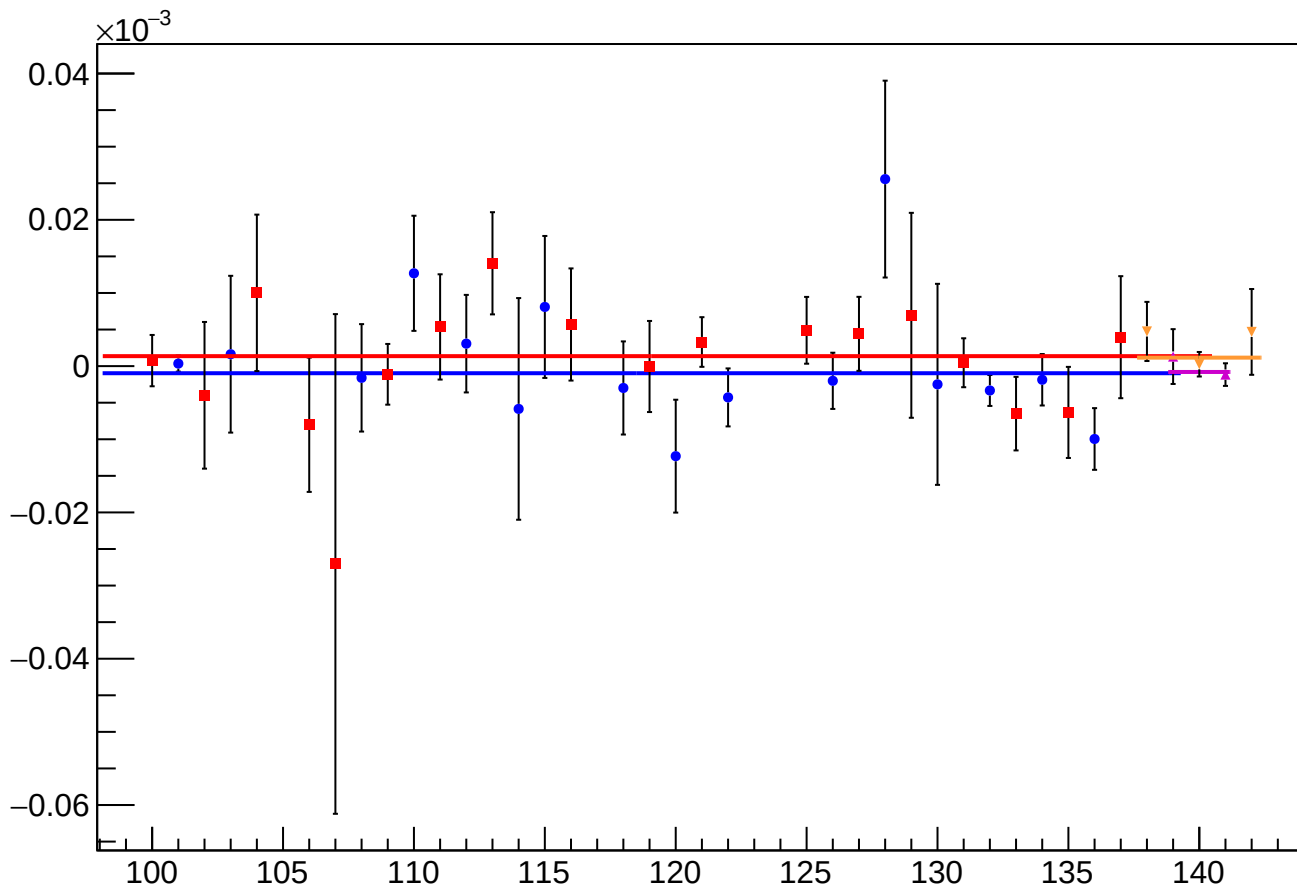
Right: 48.487+/-0.011 χ^2/NDF : 4201890.6/33

In: 47.292+/-0.013 χ^2/NDF : 1864612.0/17

Out: 45.184+/-0.012 χ^2/NDF : 2528010.6/20

All: 46.221+/-0.009 χ^2/NDF : 4406737.9/38

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 18.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 12.6/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.4/1

Left: 0.000+/-0.000 χ^2/NDF : 2.7/4

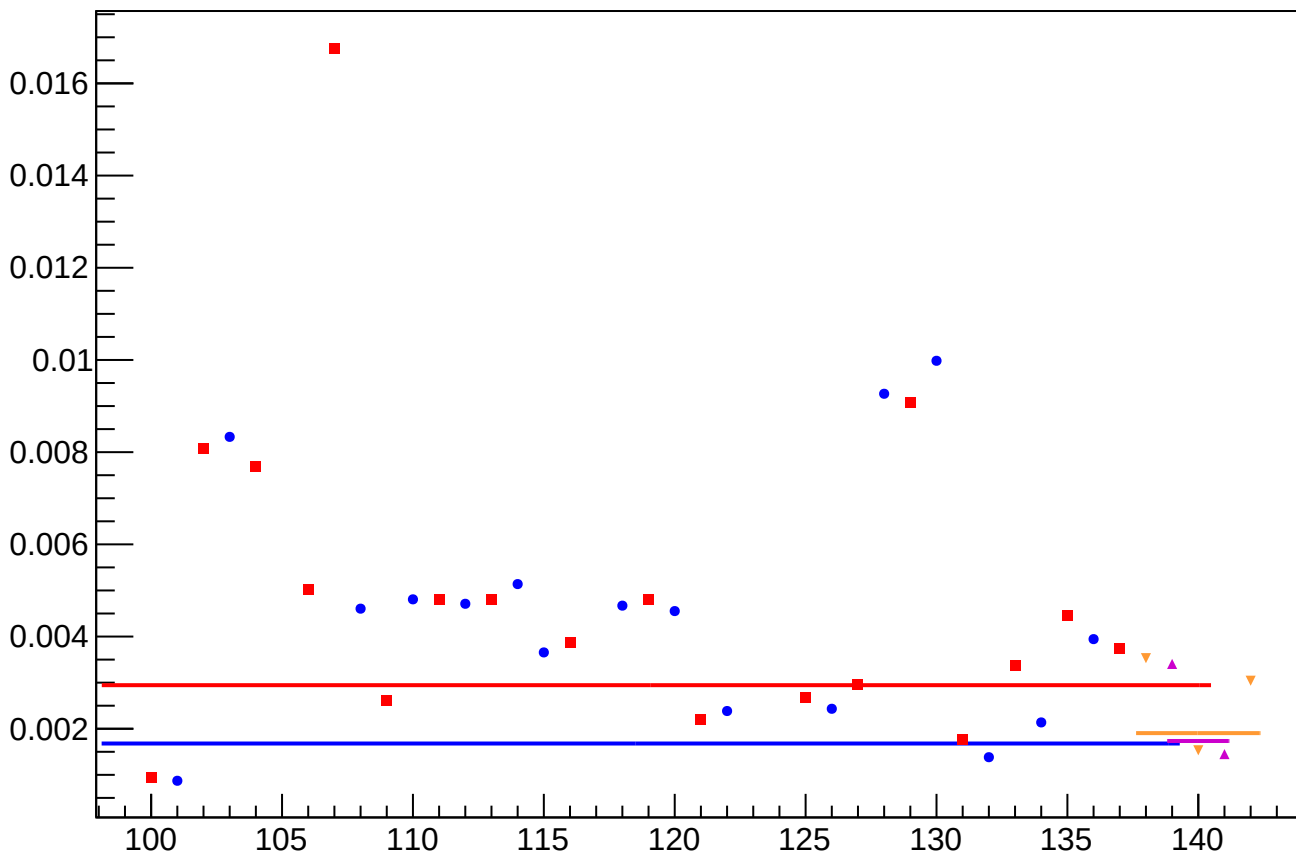
Right: -0.000+/-0.000 χ^2/NDF : 33.6/33

In: -0.000+/-0.000 χ^2/NDF : 19.0/17

Out: 0.000+/-0.000 χ^2/NDF : 14.1/20

All: -0.000+/-0.000 χ^2/NDF : 36.4/38

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5960235.0/15

Left Out: 0.002+/-0.000 χ^2/NDF : 497555.6/2

Right Out: 0.003+/-0.000 χ^2/NDF : 3379848.5/17

Left In: 0.002+/-0.000 χ^2/NDF : 465684.6/1

Left: 0.002+/-0.000 χ^2/NDF : 976864.0/4

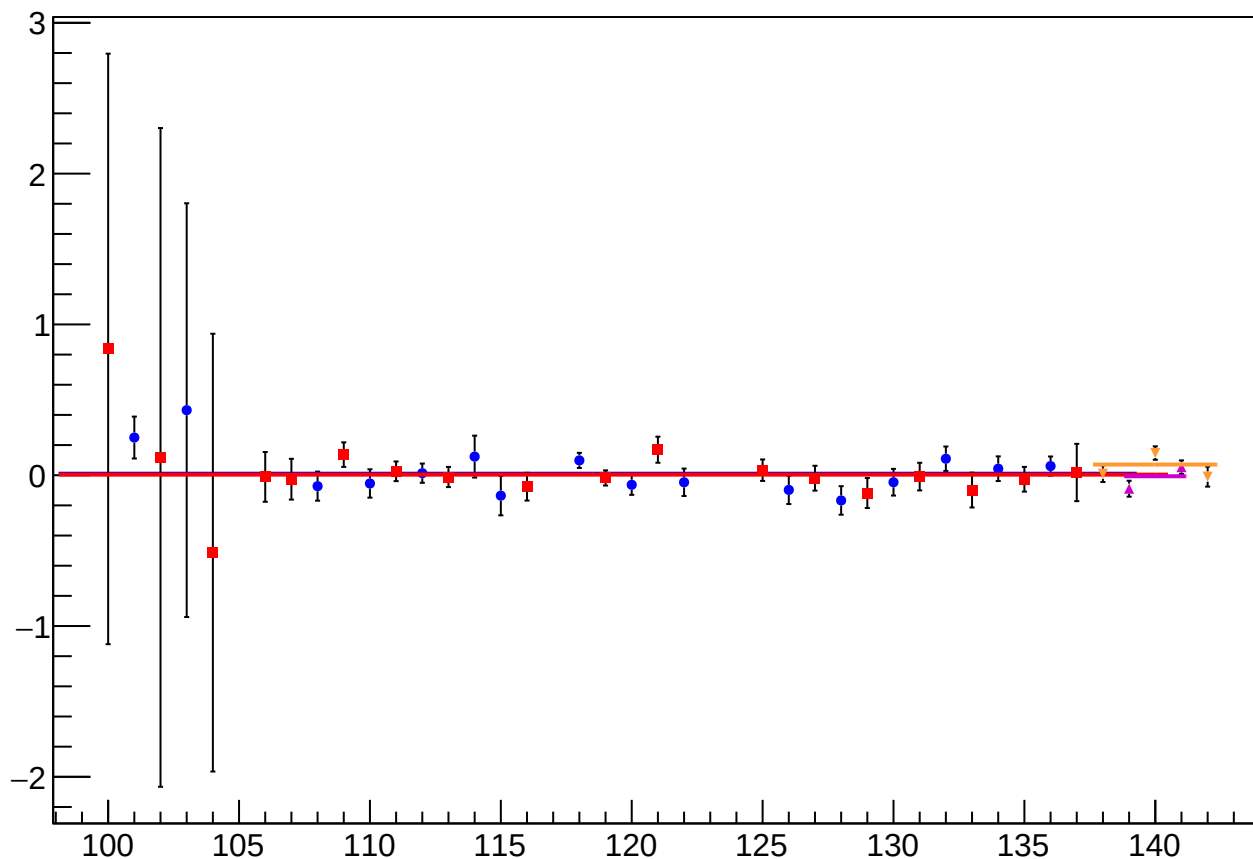
Right: 0.002+/-0.000 χ^2/NDF : 10702272.5/33

In: 0.002+/-0.000 χ^2/NDF : 6428112.7/17

Out: 0.003+/-0.000 χ^2/NDF : 4431509.9/20

All: 0.002+/-0.000 χ^2/NDF : 11749744.6/38

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.021 χ^2 /NDF: 18.4/15

Left Out: 0.071 $\pm$ 0.031 χ^2 /NDF: 5.6/2

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: -0.007 $\pm$ 0.034 χ^2 /NDF: 4.2/1

Left: 0.036 $\pm$ 0.023 χ^2 /NDF: 12.7/4

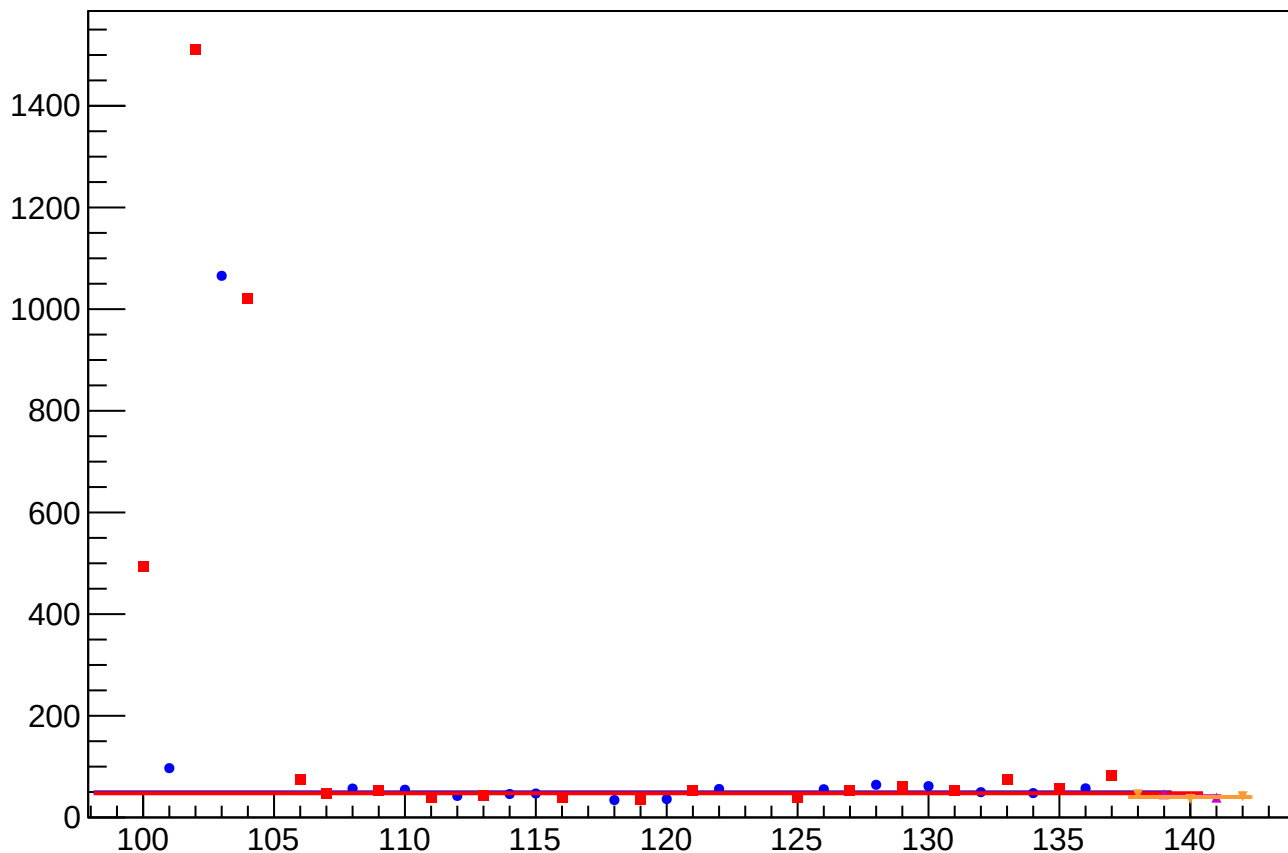
Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

In: 0.005 $\pm$ 0.018 χ^2 /NDF: 22.8/17

Out: 0.026 $\pm$ 0.018 χ^2 /NDF: 19.3/20

All: 0.016 $\pm$ 0.013 χ^2 /NDF: 42.8/38

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 49.333+/-0.015 χ^2/NDF : 1776926.6/15

Left Out: 40.267+/-0.022 χ^2/NDF : 33105.8/2

Right Out: 47.598+/-0.015 χ^2/NDF : 2418253.9/17

Left In: 41.814+/-0.024 χ^2/NDF : 17742.4/1

Left: 40.954+/-0.016 χ^2/NDF : 53108.2/4

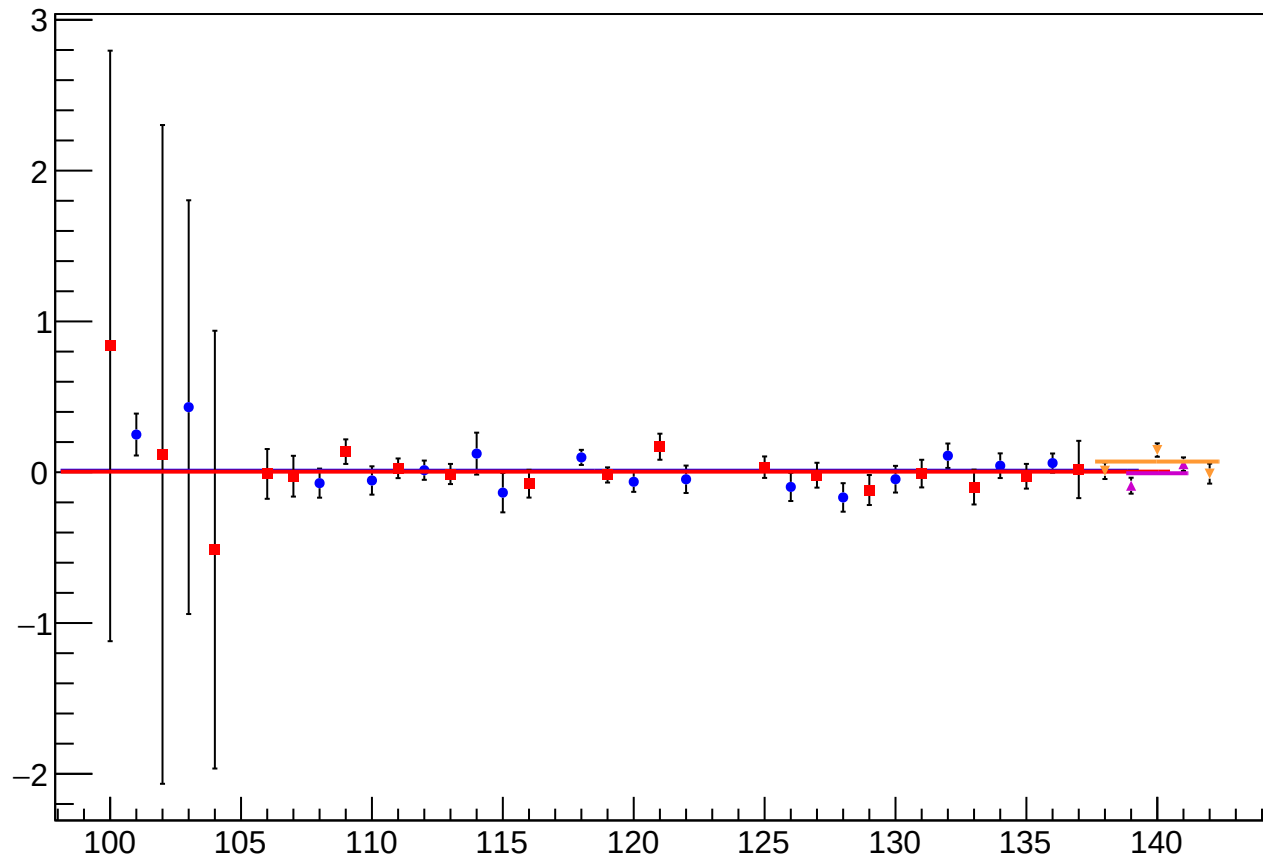
Right: 48.487+/-0.011 χ^2/NDF : 4201863.1/33

In: 47.292+/-0.013 χ^2/NDF : 1864556.0/17

Out: 45.184+/-0.012 χ^2/NDF : 2528031.4/20

All: 46.221+/-0.009 χ^2/NDF : 4406710.4/38

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.021 χ^2 /NDF: 18.4/15

Left Out: 0.071 $\pm$ 0.031 χ^2 /NDF: 5.6/2

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: -0.007 $\pm$ 0.034 χ^2 /NDF: 4.2/1

Left: 0.036 $\pm$ 0.023 χ^2 /NDF: 12.7/4

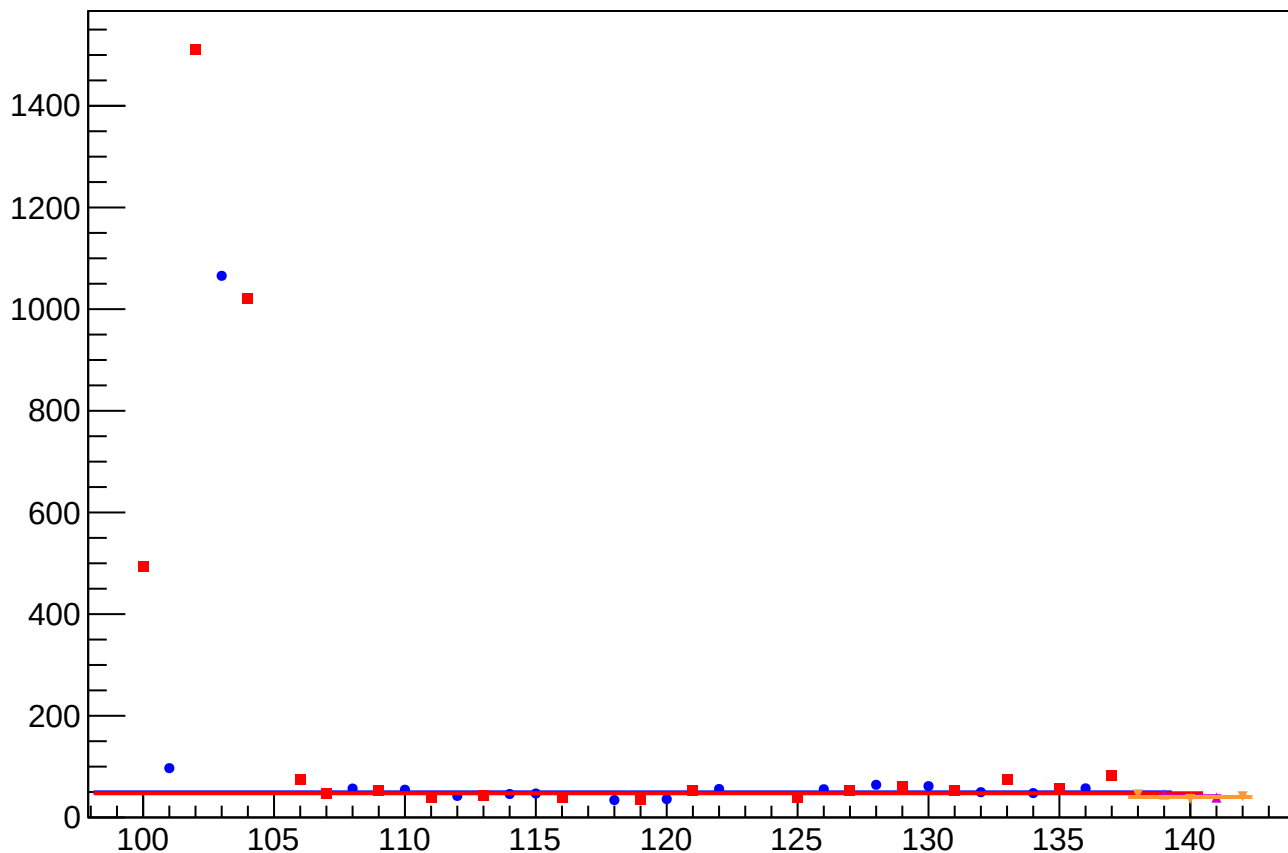
Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

In: 0.005 $\pm$ 0.018 χ^2 /NDF: 22.8/17

Out: 0.026 $\pm$ 0.018 χ^2 /NDF: 19.3/20

All: 0.016 $\pm$ 0.013 χ^2 /NDF: 42.8/38

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 49.333+/-0.015 χ^2/NDF : 1776926.6/15

Left Out: 40.267+/-0.022 χ^2/NDF : 33105.8/2

Right Out: 47.598+/-0.015 χ^2/NDF : 2418253.9/17

Left In: 41.814+/-0.024 χ^2/NDF : 17742.4/1

Left: 40.954+/-0.016 χ^2/NDF : 53108.2/4

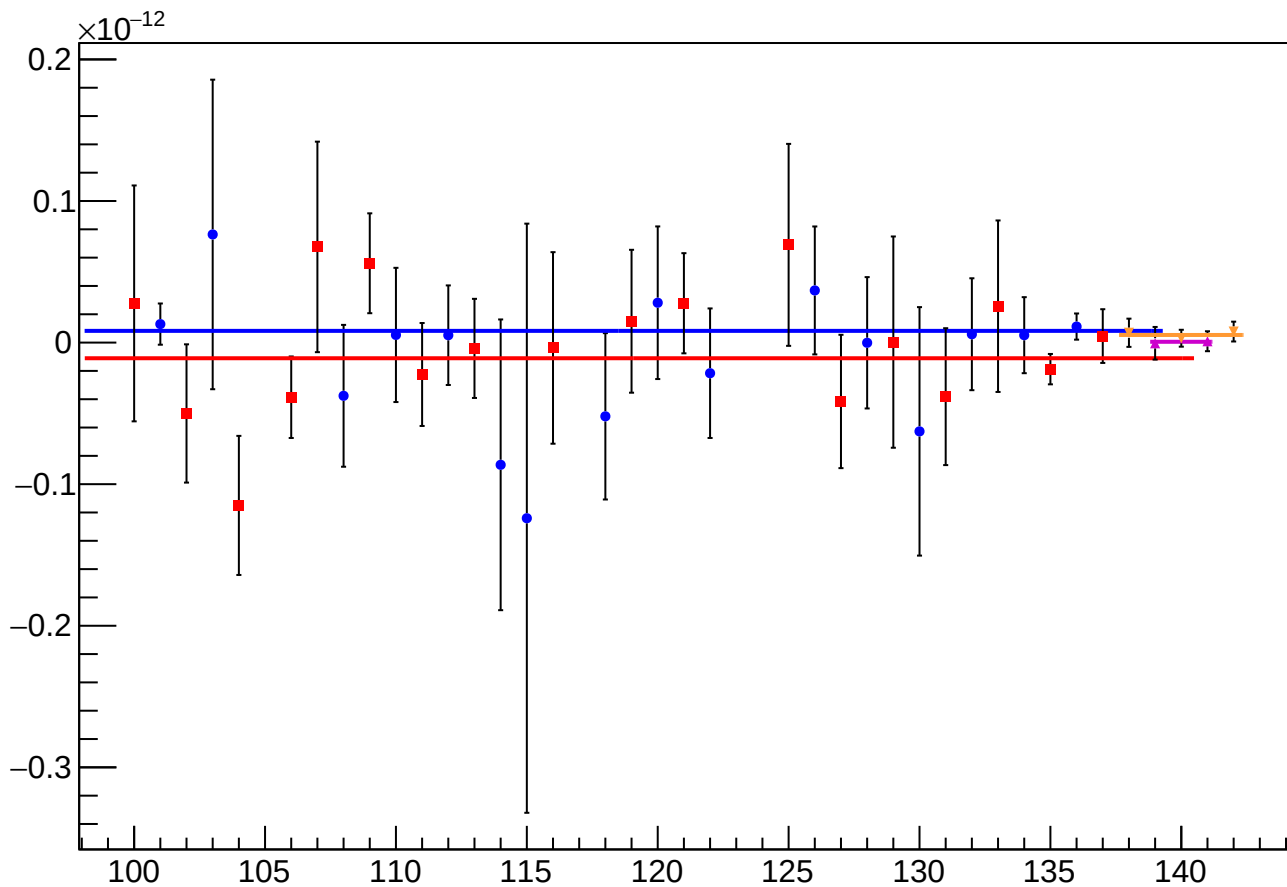
Right: 48.487+/-0.011 χ^2/NDF : 4201863.1/33

In: 47.292+/-0.013 χ^2/NDF : 1864556.0/17

Out: 45.184+/-0.012 χ^2/NDF : 2528031.4/20

All: 46.221+/-0.009 χ^2/NDF : 4406710.4/38

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 5.4/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.3/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 16.2/17

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/1

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.7/4

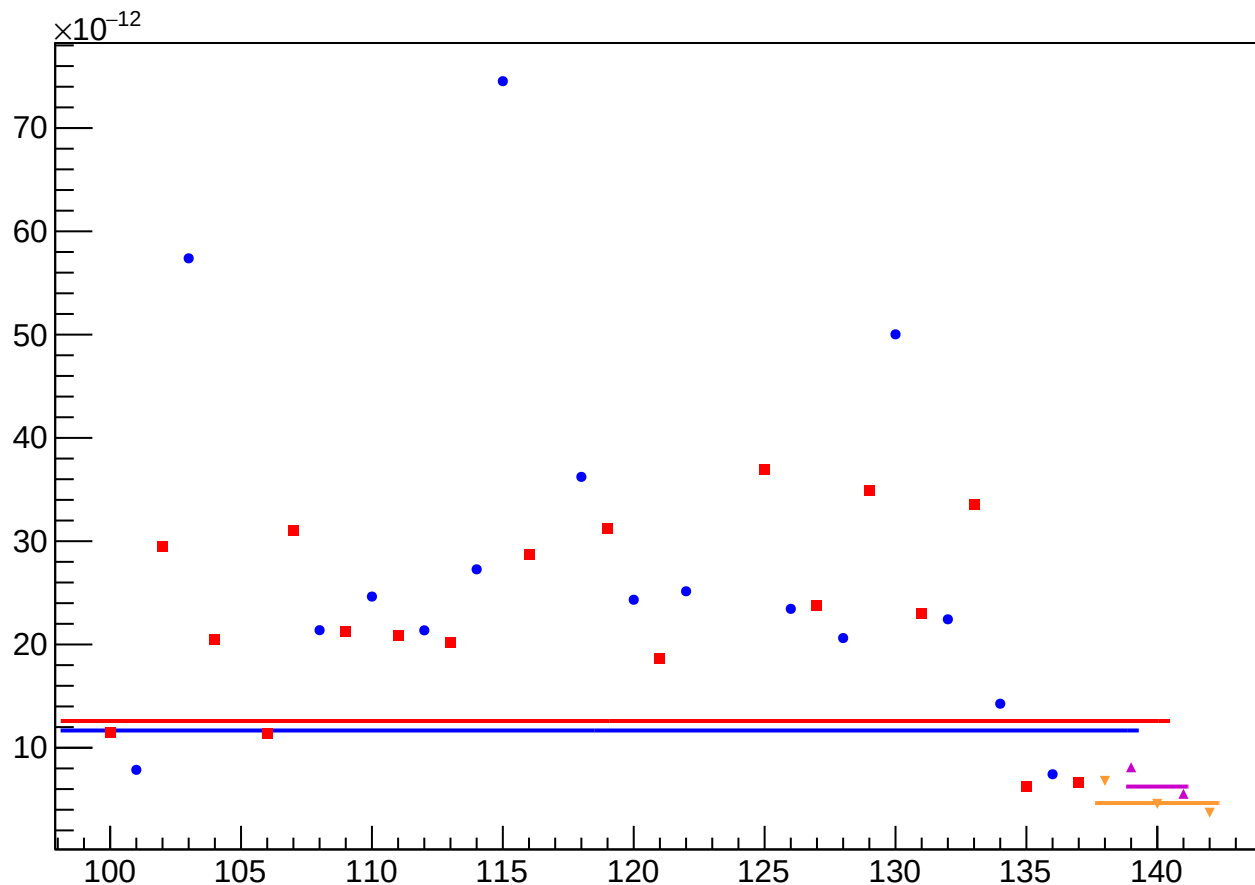
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 25.5/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF:6.2/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:20.4/20

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 26.8/38

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2905247.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :128617.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2923298.3/17

Left In: 0.000+/-0.000 χ^2/NDF :72456.4/1

Left: 0.000+/-0.000 χ^2/NDF : 296512.9/4

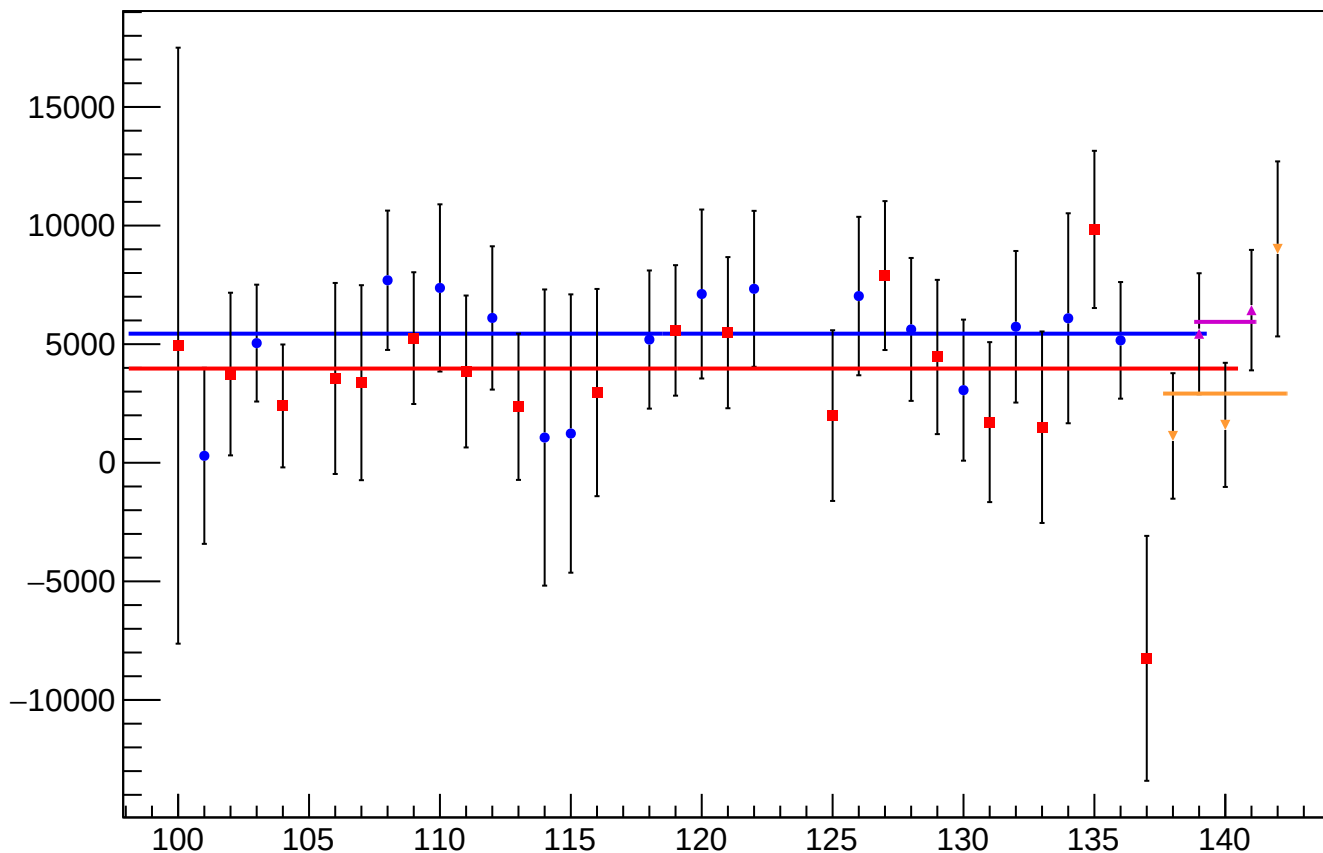
Right: 0.000+/-0.000 χ^2/NDF : 5846038.9/33

In: 0.000+/-0.000 χ^2/NDF :3709938.0/17

Out: 0.000+/-0.000 χ^2/NDF :4872056.9/20

All: 0.000+/-0.000 χ^2/NDF : 8843001.8/38

reg_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5442.336 $\pm$ 812.534 χ^2 /NDF: 5.4/15

Left Out: 2917.048 $\pm$ 1661.288 χ^2 /NDF:3.4/2

Right Out: 3971.728 $\pm$ 809.023 χ^2 /NDF: 13.0/17

Left In: 5939.791 $\pm$ 1799.067 χ^2 /NDF:0.1/1

Left: 4308.255 $\pm$ 1220.514 χ^2 /NDF: 5.0/4

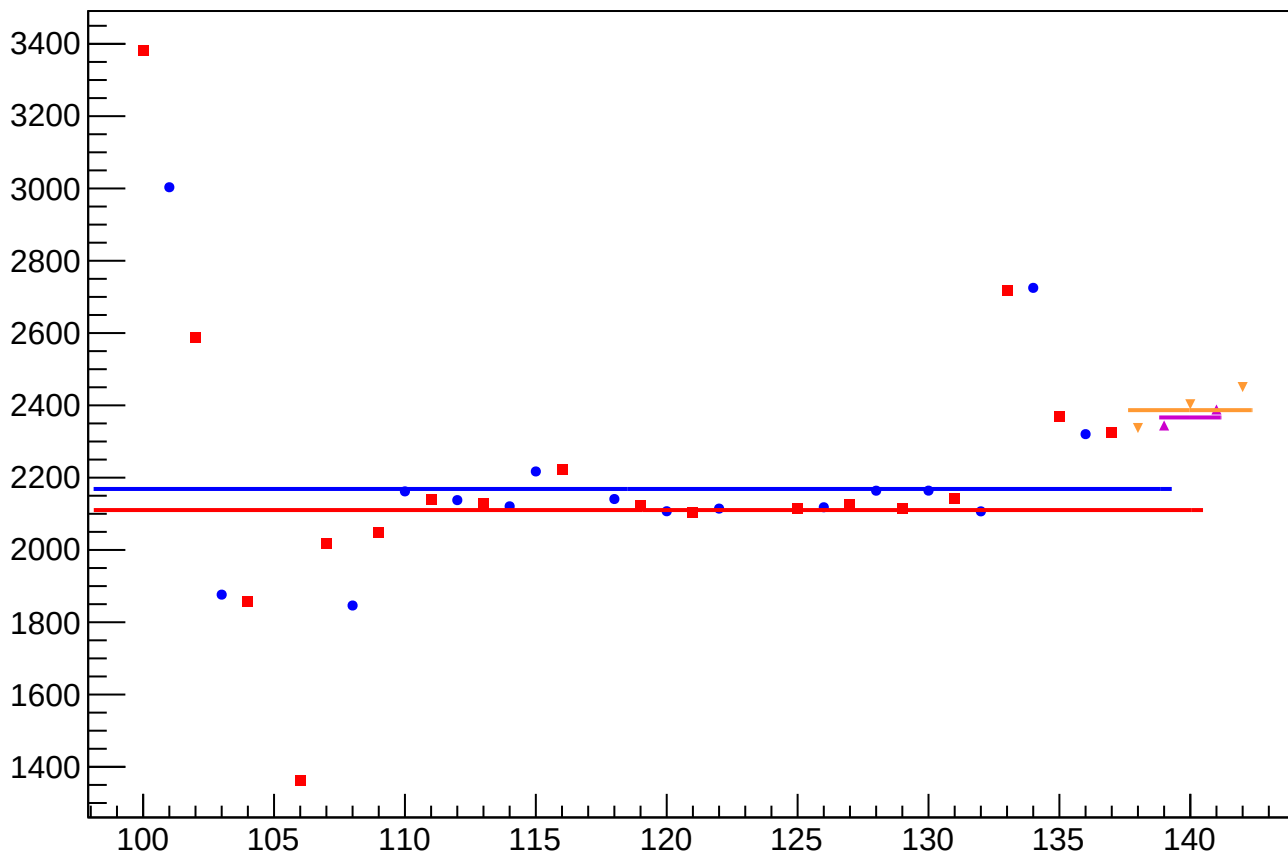
Right: 4703.849 $\pm$ 573.303 χ^2 /NDF: 20.0/33

In: 5526.616 $\pm$ 740.511 χ^2 /NDF:5.5/17

Out: 3769.553 $\pm$ 727.359 χ^2 /NDF:16.7/20

All: 4632.342 $\pm$ 518.908 χ^2 /NDF: 25.1/38

reg_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2168.715 $\pm$ 0.575 χ^2 /NDF: 195659.5/15

Left Out: 2386.741 $\pm$ 1.175 χ^2 /NDF:1373.8/2

Right Out: 2110.365 $\pm$ 0.563 χ^2 /NDF: 267413.4/17

Left In: 2366.546 $\pm$ 1.272 χ^2 /NDF:301.7/1

Left: 2377.447 $\pm$ 0.863 χ^2 /NDF: 1811.5/4

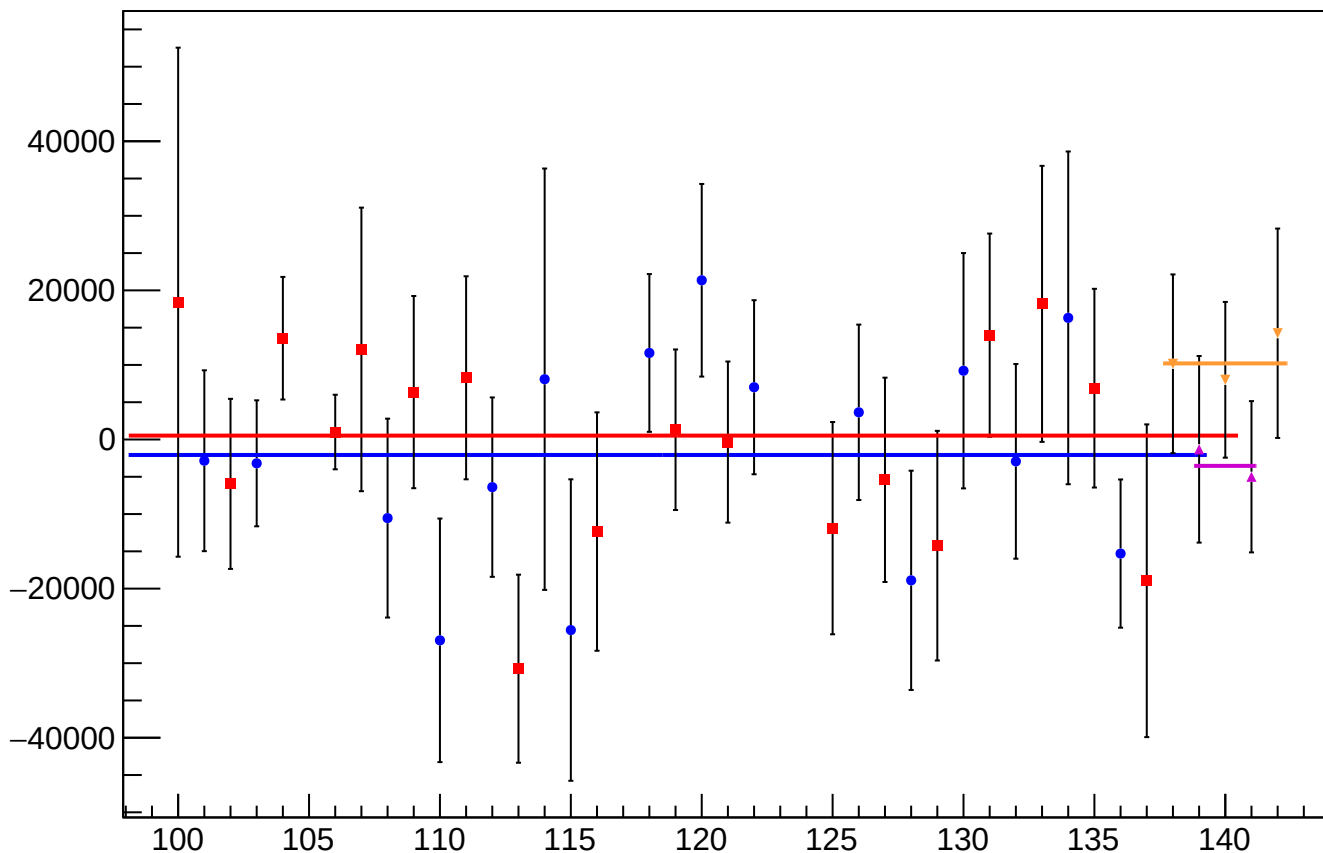
Right: 2138.947 $\pm$ 0.402 χ^2 /NDF: 468334.9/33

In: 2202.232 $\pm$ 0.524 χ^2 /NDF:216047.6/17

Out: 2161.987 $\pm$ 0.508 χ^2 /NDF:313801.4/20

All: 2181.488 $\pm$ 0.364 χ^2 /NDF: 532894.0/38

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -2074.843 $\pm$ 3212.093 χ^2 /NDF: 14.4/15

Left Out: 10204.811 $\pm$ 6867.467 χ^2 /NDF: 0.1/2

Right Out: 521.454 $\pm$ 2715.587 χ^2 /NDF: 15.7/17

Left In: -3537.266 $\pm$ 7880.111 χ^2 /NDF: 0.1/1

Left: 4272.946 $\pm$ 5177.282 χ^2 /NDF: 1.9/4

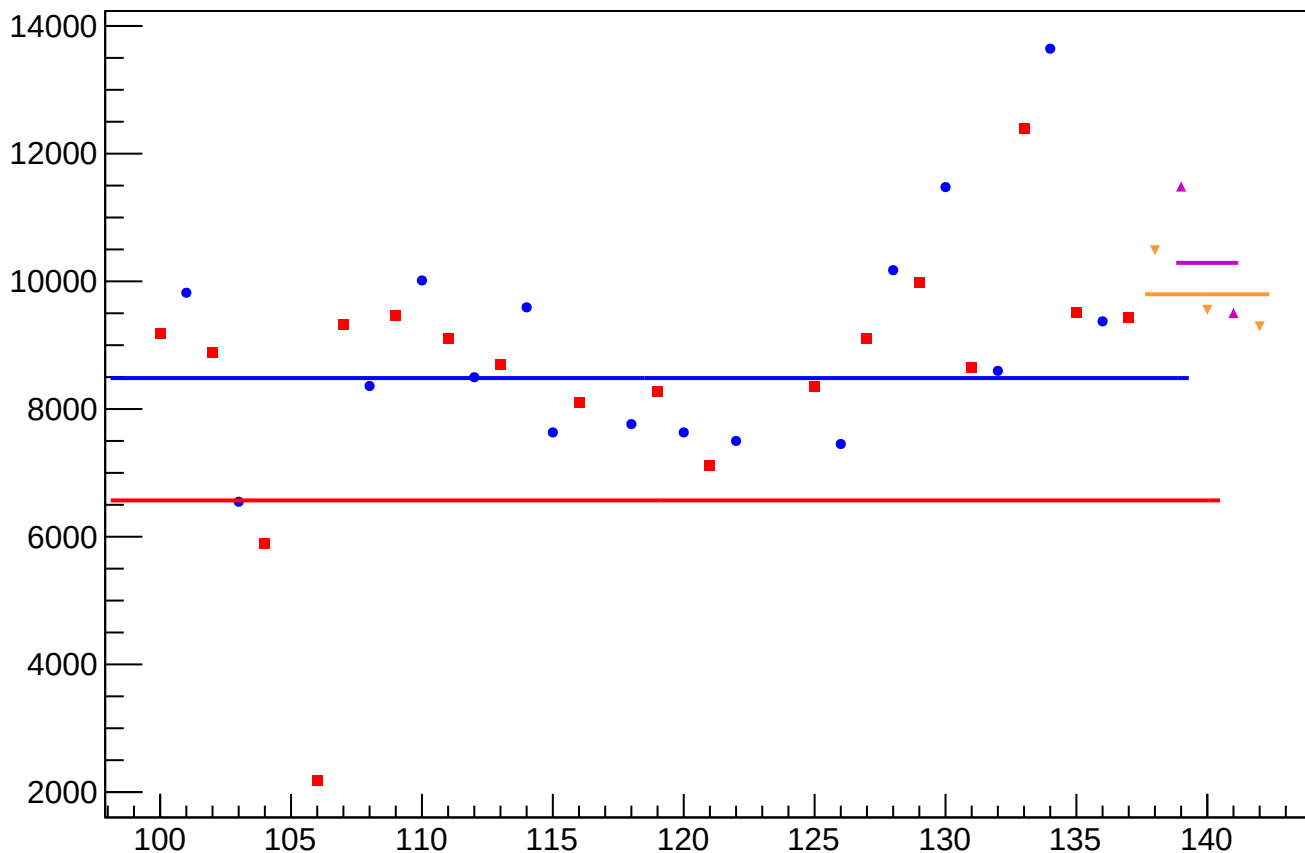
Right: -560.742 $\pm$ 2073.786 χ^2 /NDF: 30.5/33

In: -2283.209 $\pm$ 2974.473 χ^2 /NDF: 14.5/17

Out: 1830.835 $\pm$ 2525.321 χ^2 /NDF: 17.5/20

All: 107.569 $\pm$ 1925.093 χ^2 /NDF: 33.1/38

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 8485.000+/-2.271 χ^2/NDF : 422706.1/15

Left Out: 9797.461+/-4.856 χ^2/NDF : 10250.6/2

Right Out: 6568.711+/-1.920 χ^2/NDF : 2568887.0/17

Left In: 10289.491+/-5.572 χ^2/NDF : 30246.4/1

Left: 10009.849+/-3.661 χ^2/NDF : 44928.5/4

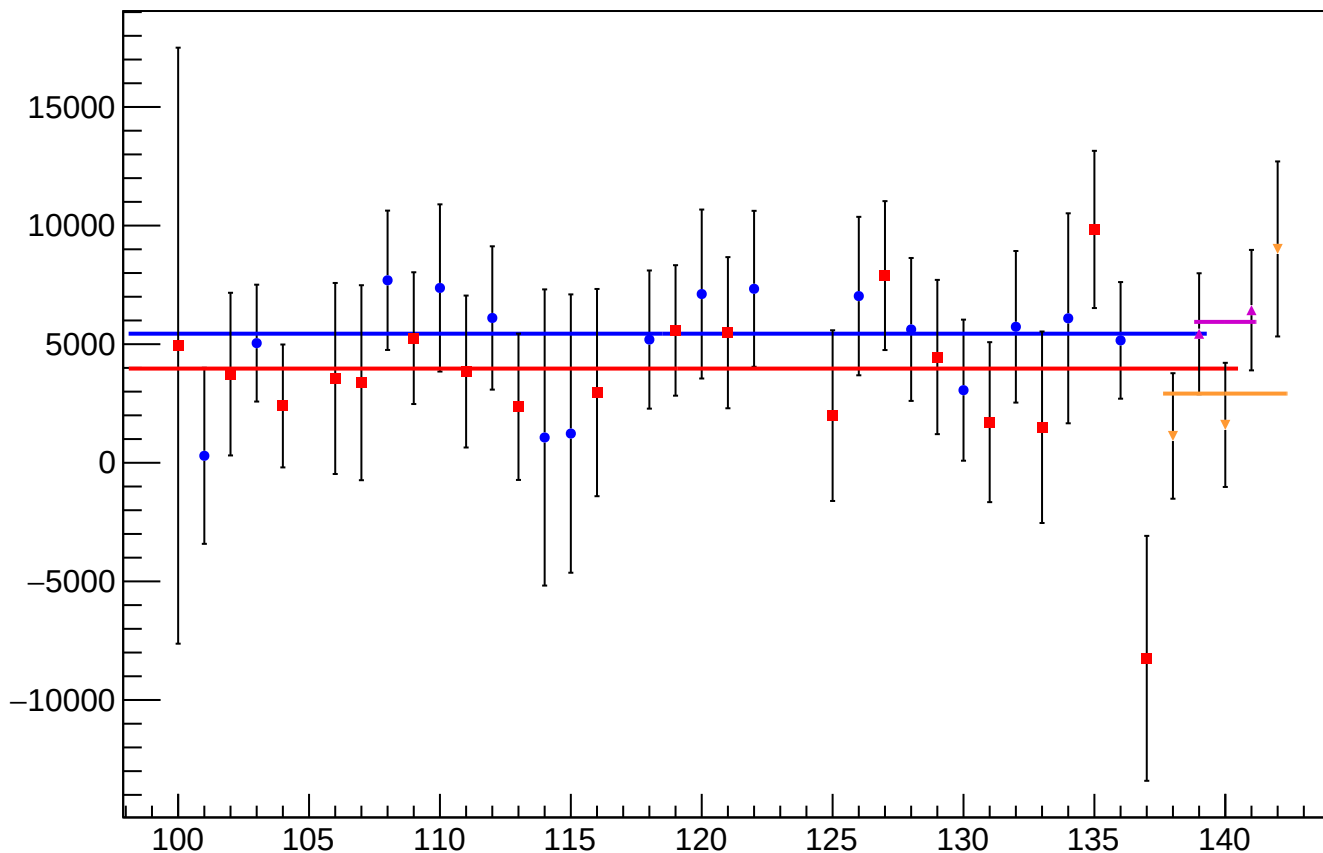
Right: 7367.464+/-1.466 χ^2/NDF : 3406715.7/33

In: 8742.105+/-2.103 χ^2/NDF : 542885.4/17

Out: 7005.301+/-1.786 χ^2/NDF : 2961443.9/20

All: 7732.803+/-1.361 χ^2/NDF : 3900590.5/38

cor_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5442.478+/-812.534 χ^2/NDF : 5.4/15

Left Out: 2917.078+/-1661.288 χ^2/NDF : 3.4/2

Right Out: 3971.470+/-809.023 χ^2/NDF : 13.0/17

Left In: 5939.911+/-1799.067 χ^2/NDF : 0.1/1

Left: 4308.326+/-1220.514 χ^2/NDF : 5.0/4

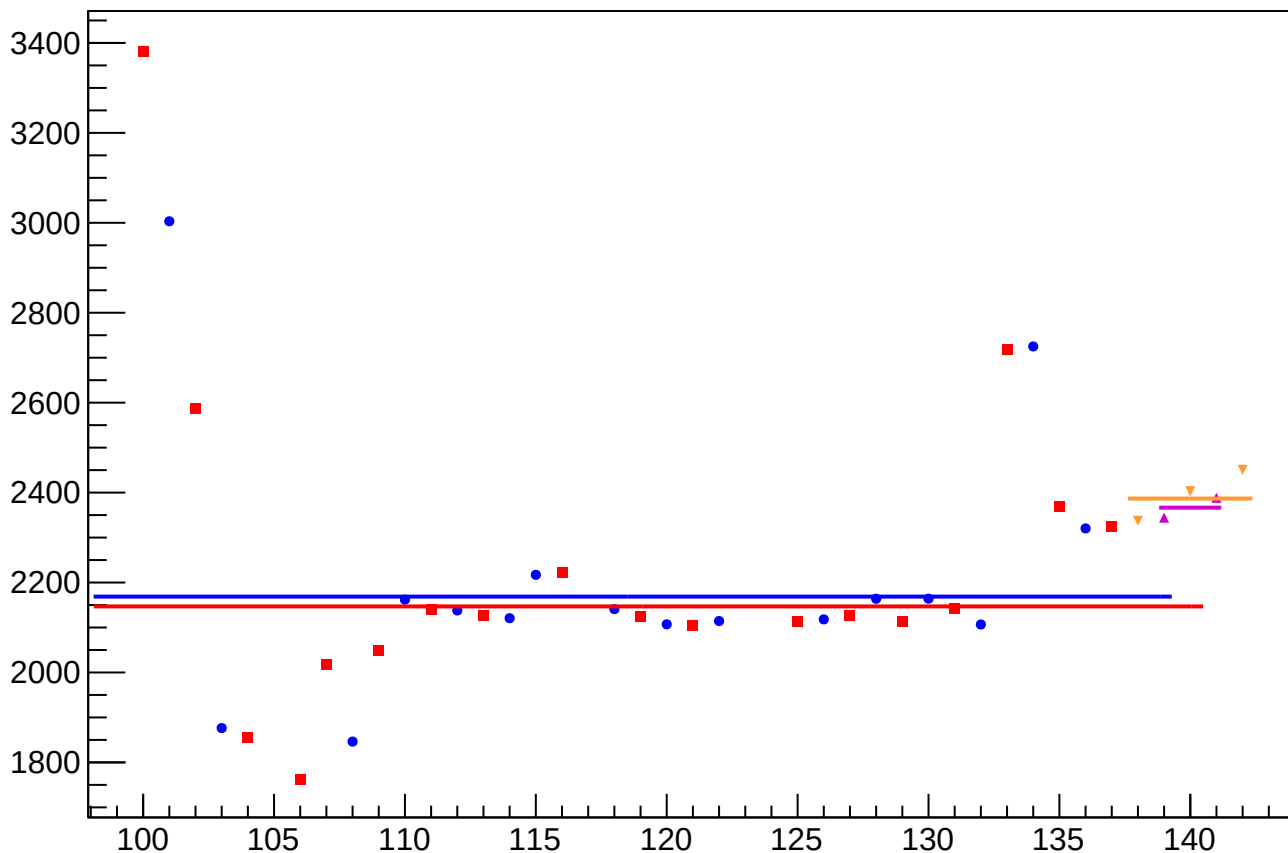
Right: 4703.790+/-573.303 χ^2/NDF : 20.0/33

In: 5526.754+/-740.511 χ^2/NDF : 5.5/17

Out: 3769.350+/-727.359 χ^2/NDF : 16.7/20

All: 4632.307+/-518.908 χ^2/NDF : 25.1/38

cor_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2168.715 $\pm$ 0.575 χ^2 /NDF: 195659.8/15

Left Out: 2386.742 $\pm$ 1.175 χ^2 /NDF:1373.8/2

Right Out: 2146.888 $\pm$ 0.569 χ^2 /NDF: 157750.7/17

Left In: 2366.546 $\pm$ 1.272 χ^2 /NDF:301.7/1

Left: 2377.447 $\pm$ 0.863 χ^2 /NDF: 1811.5/4

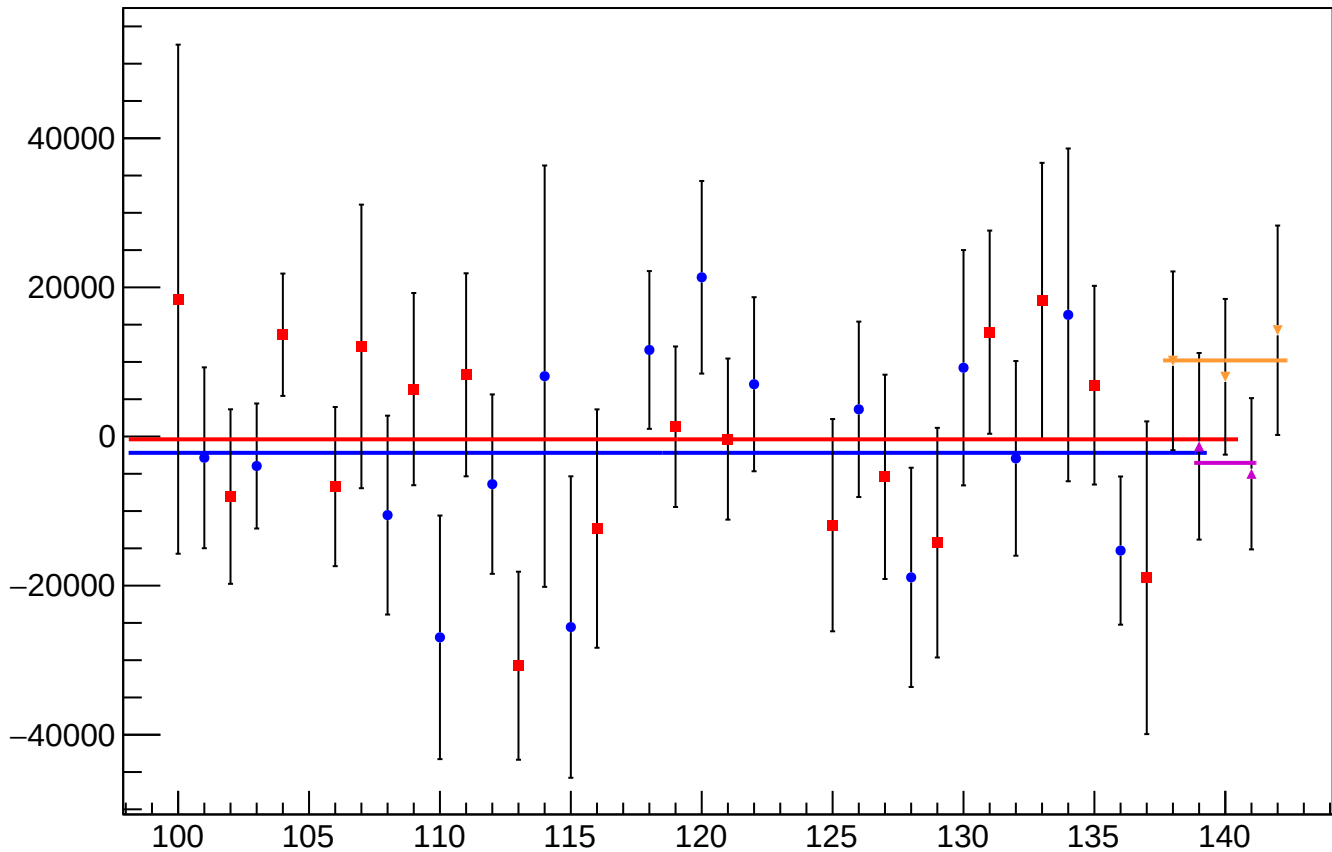
Right: 2157.700 $\pm$ 0.404 χ^2 /NDF: 354138.9/33

In: 2202.232 $\pm$ 0.524 χ^2 /NDF:216048.0/17

Out: 2192.497 $\pm$ 0.512 χ^2 /NDF:192887.0/20

All: 2197.258 $\pm$ 0.366 χ^2 /NDF: 409111.6/38

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -2189.256+/-3208.524 χ^2/NDF : 14.5/15

Left Out: 10204.876+/-6867.456 χ^2/NDF : 0.1/2

Right Out: -379.236+/-3099.953 χ^2/NDF : 16.3/17

Left In: -3537.347+/-7880.101 χ^2/NDF : 0.1/1

Left: 4272.949+/-5177.274 χ^2/NDF : 1.9/4

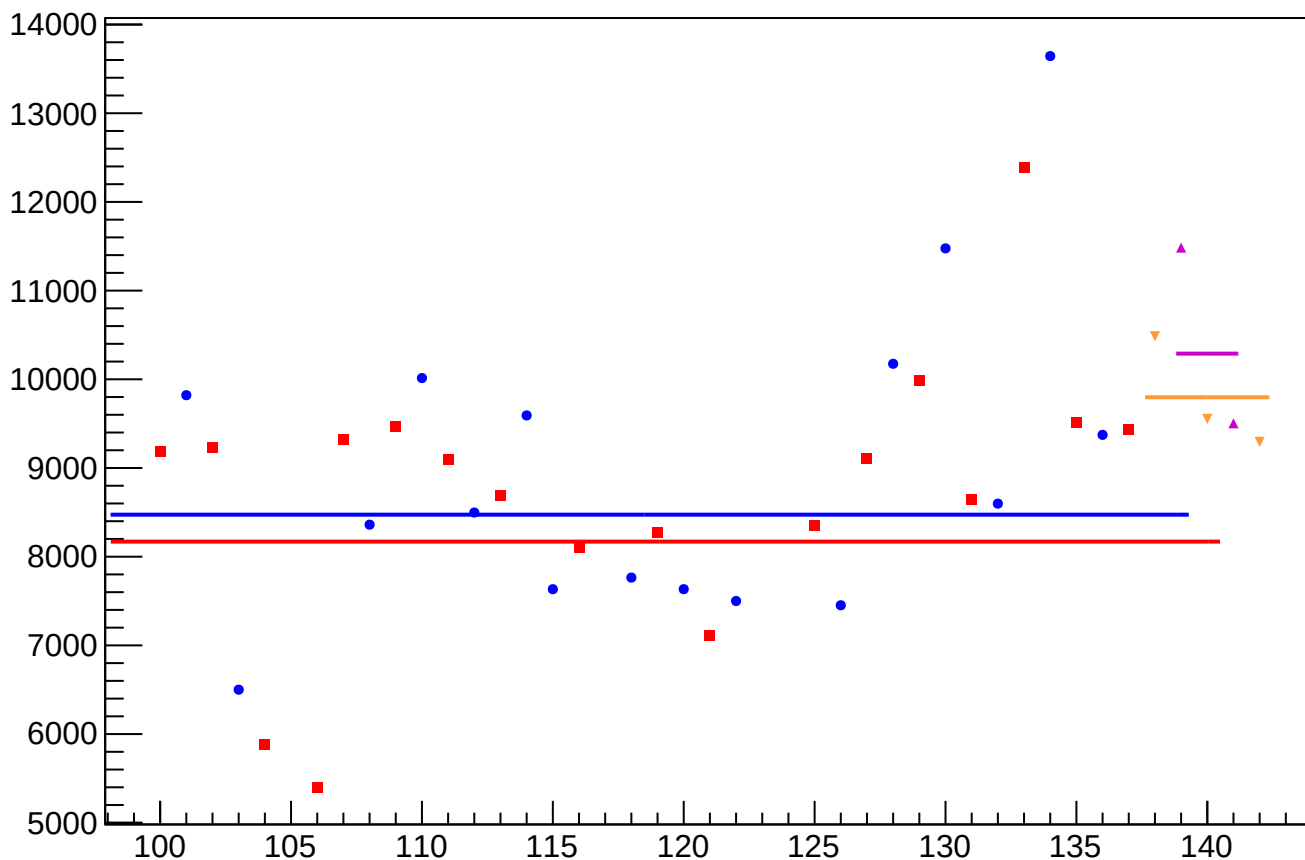
Right: -1253.105+/-2229.393 χ^2/NDF : 30.9/33

In: -2380.967+/-2971.638 χ^2/NDF : 14.5/17

Out: 1412.331+/-2825.434 χ^2/NDF : 18.4/20

All: -388.711+/-2047.620 χ^2/NDF : 33.8/38

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 8473.743 $\pm$ 2.269 χ^2/NDF : 429547.3/15

Left Out: 9797.445 $\pm$ 4.856 χ^2/NDF :10251.0/2

Right Out: 8170.027 $\pm$ 2.192 χ^2/NDF : 539925.8/17

Left In: 10289.476 $\pm$ 5.572 χ^2/NDF :30246.8/1

Left: 10009.834 $\pm$ 3.661 χ^2/NDF : 44929.4/4

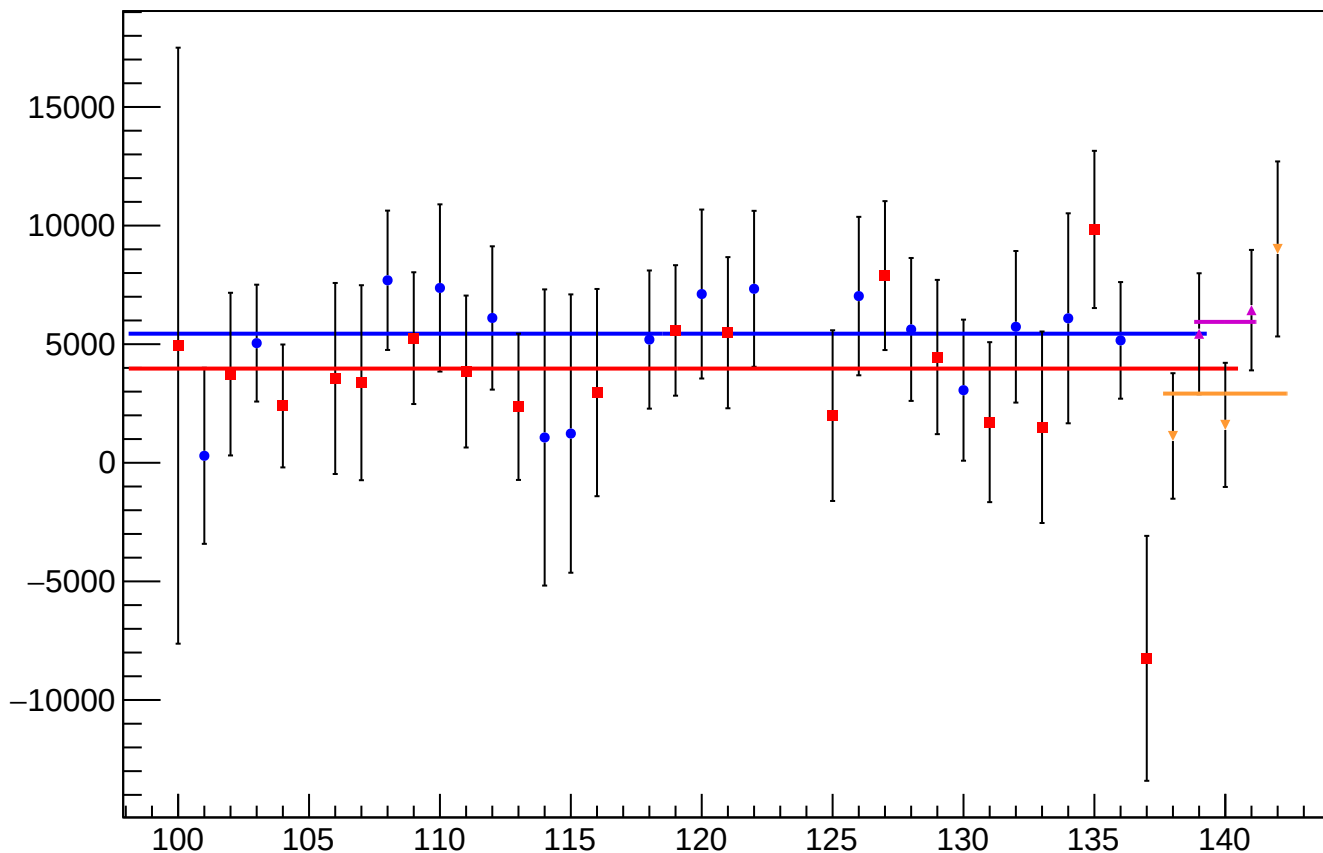
Right: 8316.660 $\pm$ 1.576 χ^2/NDF : 978741.7/33

In: 8731.957 $\pm$ 2.101 χ^2/NDF :550880.2/17

Out: 8445.499 $\pm$ 1.998 χ^2/NDF :643480.0/20

All: 8581.508 $\pm$ 1.448 χ^2/NDF : 1204121.0/38

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5442.478+/-812.534 χ^2/NDF : 5.4/15

Left Out: 2917.078+/-1661.288 χ^2/NDF : 3.4/2

Right Out: 3971.470+/-809.023 χ^2/NDF : 13.0/17

Left In: 5939.911+/-1799.067 χ^2/NDF : 0.1/1

Left: 4308.326+/-1220.514 χ^2/NDF : 5.0/4

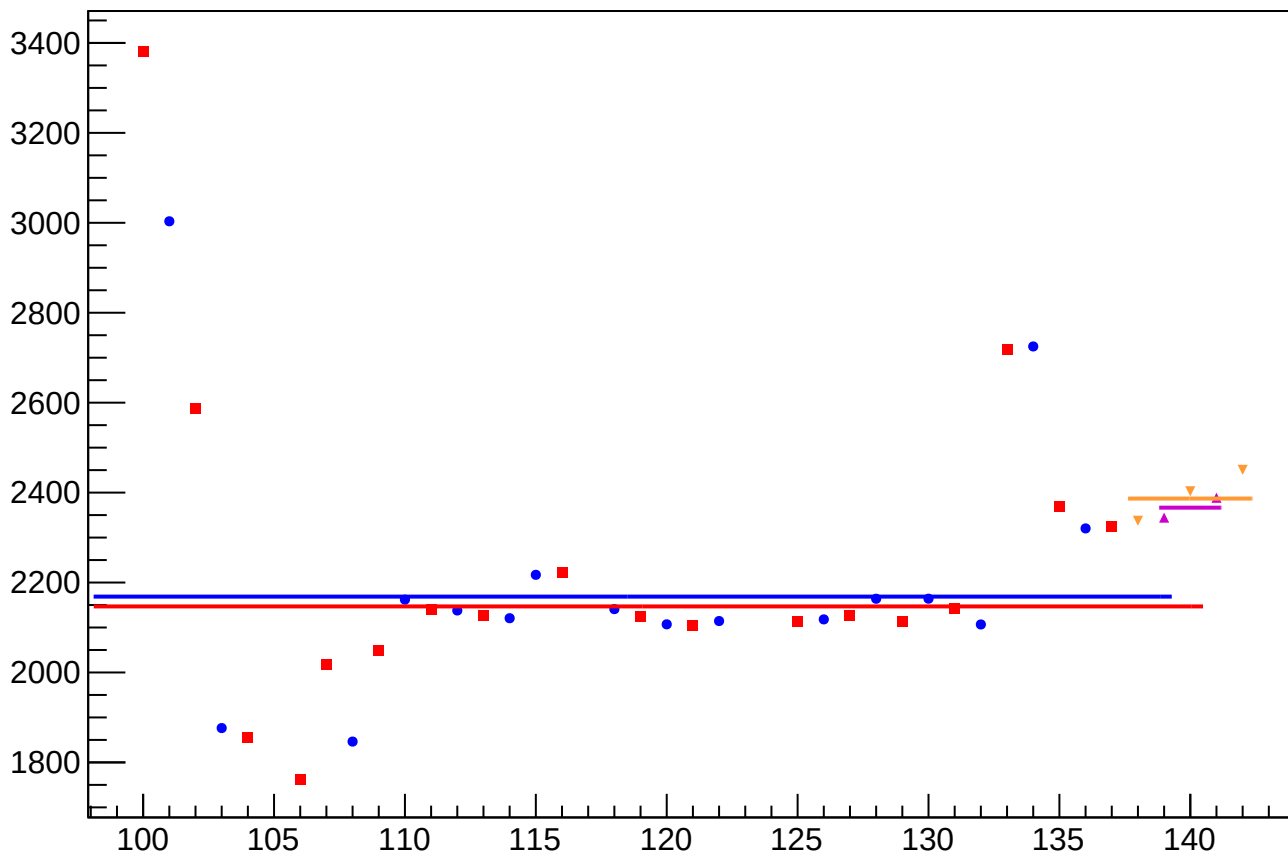
Right: 4703.790+/-573.303 χ^2/NDF : 20.0/33

In: 5526.754+/-740.511 χ^2/NDF : 5.5/17

Out: 3769.350+/-727.359 χ^2/NDF : 16.7/20

All: 4632.307+/-518.908 χ^2/NDF : 25.1/38

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2168.715 $\pm$ 0.575 χ^2 /NDF: 195659.8/15

Left Out: 2386.742 $\pm$ 1.175 χ^2 /NDF:1373.8/2

Right Out: 2146.888 $\pm$ 0.569 χ^2 /NDF: 157750.7/17

Left In: 2366.546 $\pm$ 1.272 χ^2 /NDF:301.7/1

Left: 2377.447 $\pm$ 0.863 χ^2 /NDF: 1811.5/4

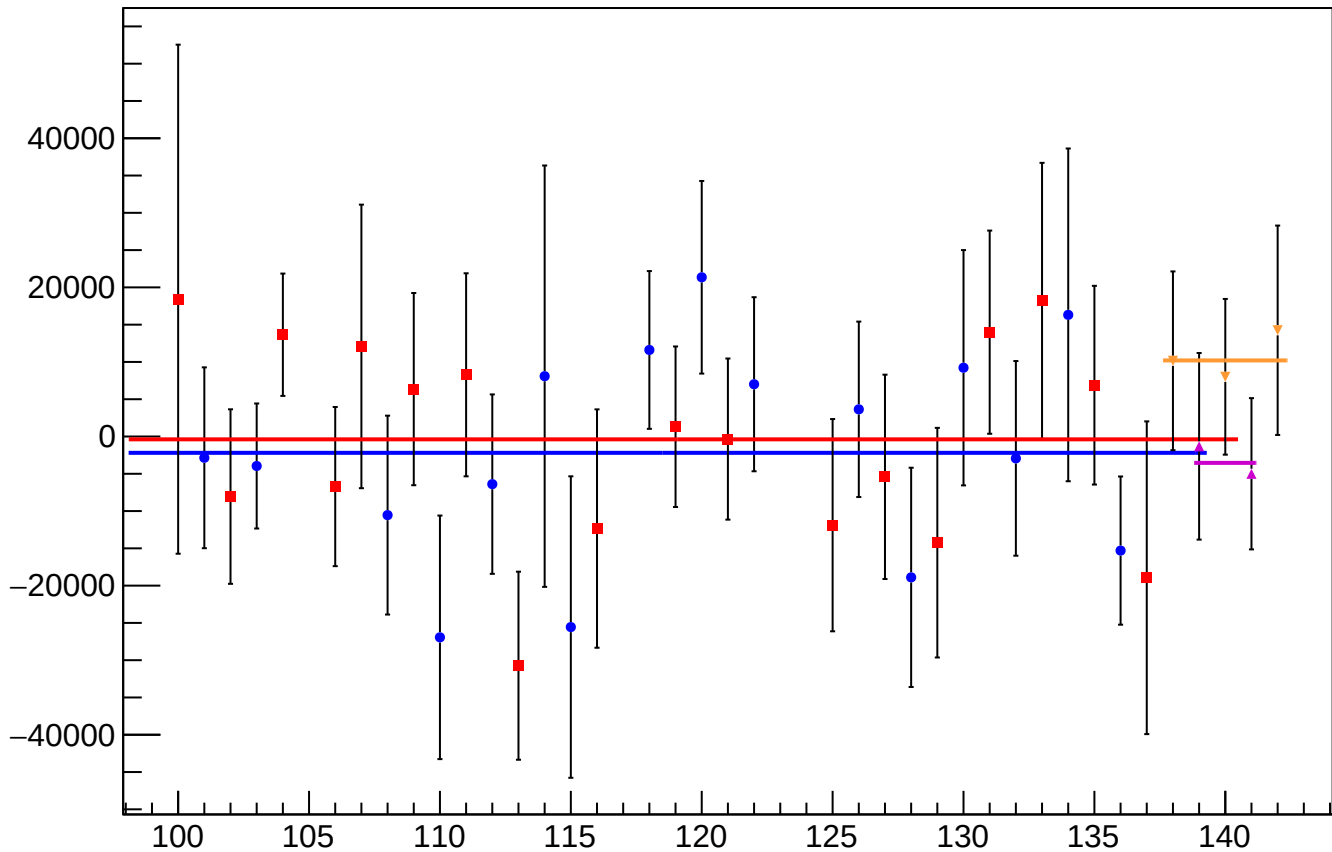
Right: 2157.700 $\pm$ 0.404 χ^2 /NDF: 354138.9/33

In: 2202.232 $\pm$ 0.524 χ^2 /NDF:216048.0/17

Out: 2192.497 $\pm$ 0.512 χ^2 /NDF:192887.0/20

All: 2197.258 $\pm$ 0.366 χ^2 /NDF: 409111.6/38

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -2189.256+/-3208.524 χ^2/NDF : 14.5/15

Left Out: 10204.876+/-6867.456 χ^2/NDF : 0.1/2

Right Out: -379.236+/-3099.953 χ^2/NDF : 16.3/17

Left In: -3537.347+/-7880.101 χ^2/NDF : 0.1/1

Left: 4272.949+/-5177.274 χ^2/NDF : 1.9/4

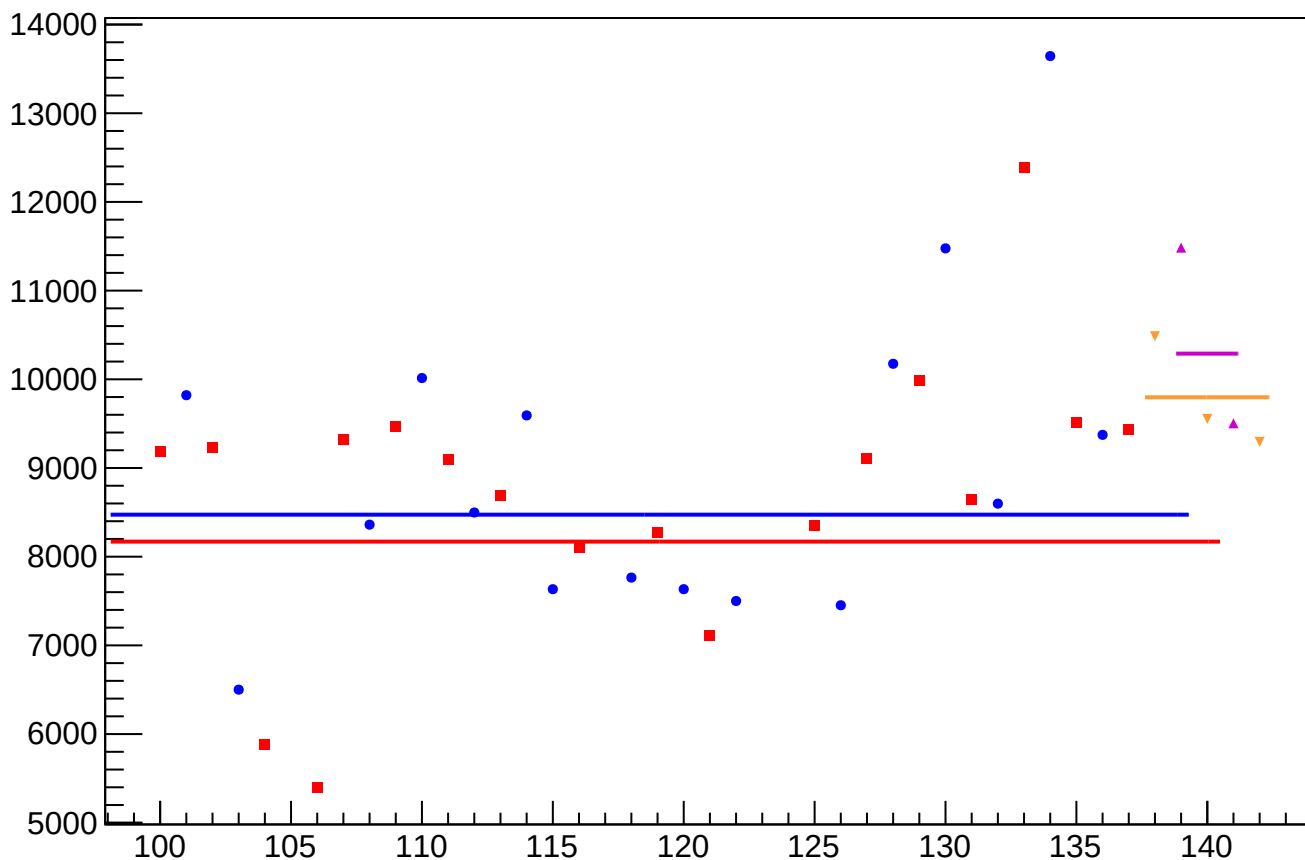
Right: -1253.105+/-2229.393 χ^2/NDF : 30.9/33

In: -2380.967+/-2971.638 χ^2/NDF : 14.5/17

Out: 1412.331+/-2825.434 χ^2/NDF : 18.4/20

All: -388.711+/-2047.620 χ^2/NDF : 33.8/38

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 8473.743+/-2.269 χ^2/NDF : 429547.3/15

Left Out: 9797.445+/-4.856 χ^2/NDF : 10251.0/2

Right Out: 8170.027+/-2.192 χ^2/NDF : 539925.8/17

Left In: 10289.476+/-5.572 χ^2/NDF : 30246.8/1

Left: 10009.834+/-3.661 χ^2/NDF : 44929.4/4

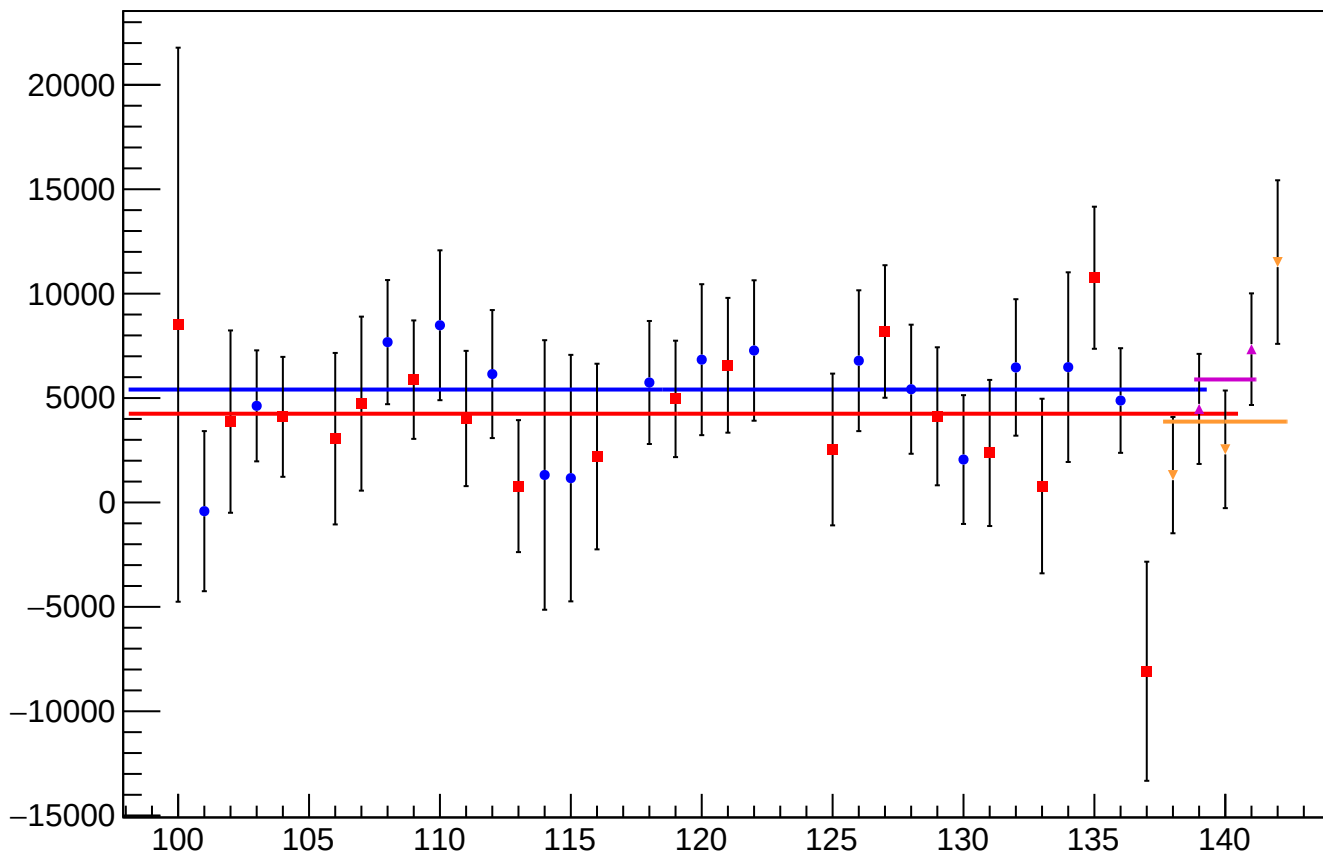
Right: 8316.660+/-1.576 χ^2/NDF : 978741.7/33

In: 8731.957+/-2.101 χ^2/NDF : 550880.2/17

Out: 8445.499+/-1.998 χ^2/NDF : 643480.0/20

All: 8581.508+/-1.448 χ^2/NDF : 1204121.0/38

dit_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5407.867 $\pm$ 833.689 χ^2 /NDF: 6.7/15

Left Out: 3872.446 $\pm$ 1767.245 χ^2 /NDF:4.9/2

Right Out: 4249.899 $\pm$ 839.336 χ^2 /NDF: 14.5/17

Left In: 5890.245 $\pm$ 1876.875 χ^2 /NDF:0.6/1

Left: 4820.697 $\pm$ 1286.643 χ^2 /NDF: 6.1/4

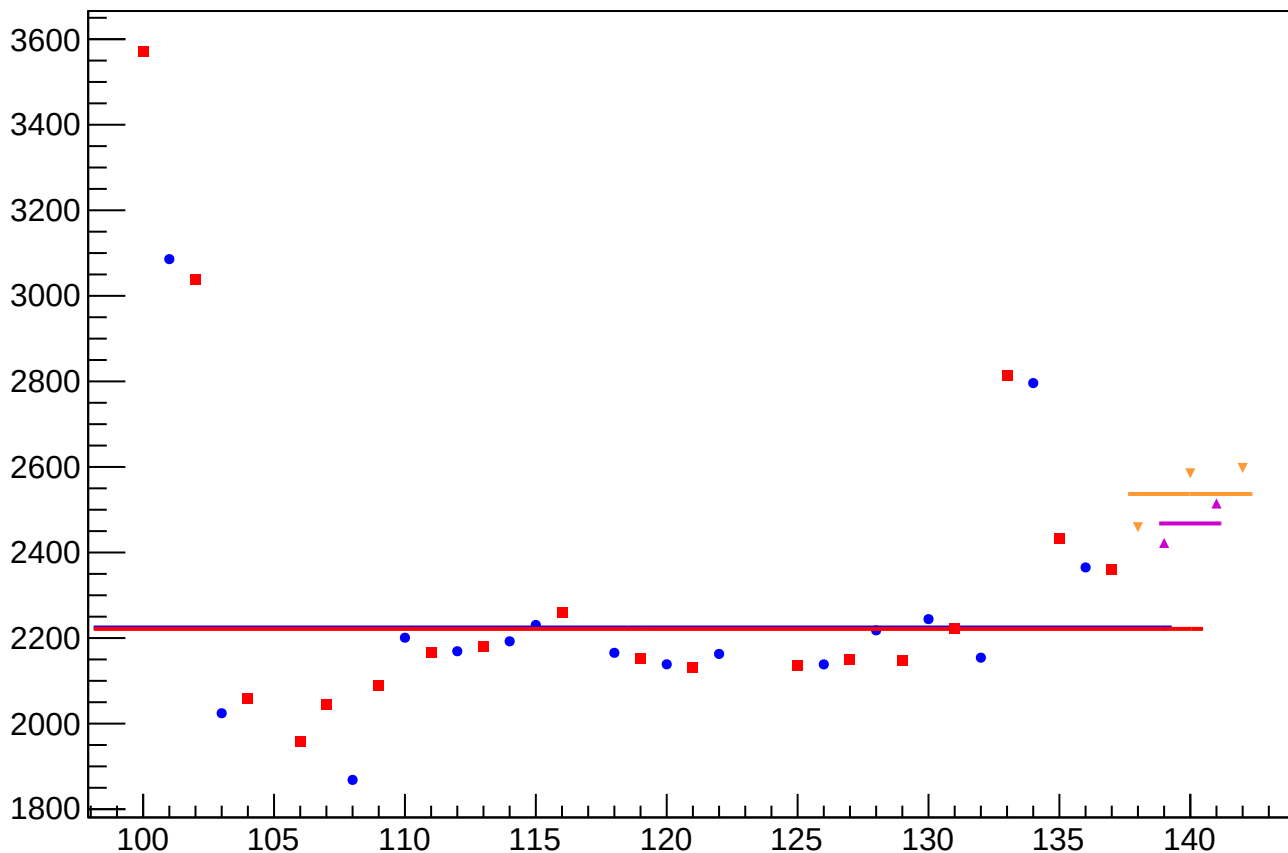
Right: 4832.791 $\pm$ 591.493 χ^2 /NDF: 22.2/33

In: 5487.359 $\pm$ 761.906 χ^2 /NDF:7.4/17

Out: 4180.428 $\pm$ 758.171 χ^2 /NDF:19.4/20

All: 4830.681 $\pm$ 537.423 χ^2 /NDF: 28.2/38

dit_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2224.614 $\pm$ 0.590 χ^2 /NDF: 184679.8/15

Left Out: 2536.862 $\pm$ 1.250 χ^2 /NDF: 2625.2/2

Right Out: 2221.425 $\pm$ 0.593 χ^2 /NDF: 169944.3/17

Left In: 2467.906 $\pm$ 1.327 χ^2 /NDF: 1206.9/1

Left: 2504.457 $\pm$ 0.910 χ^2 /NDF: 5263.1/4

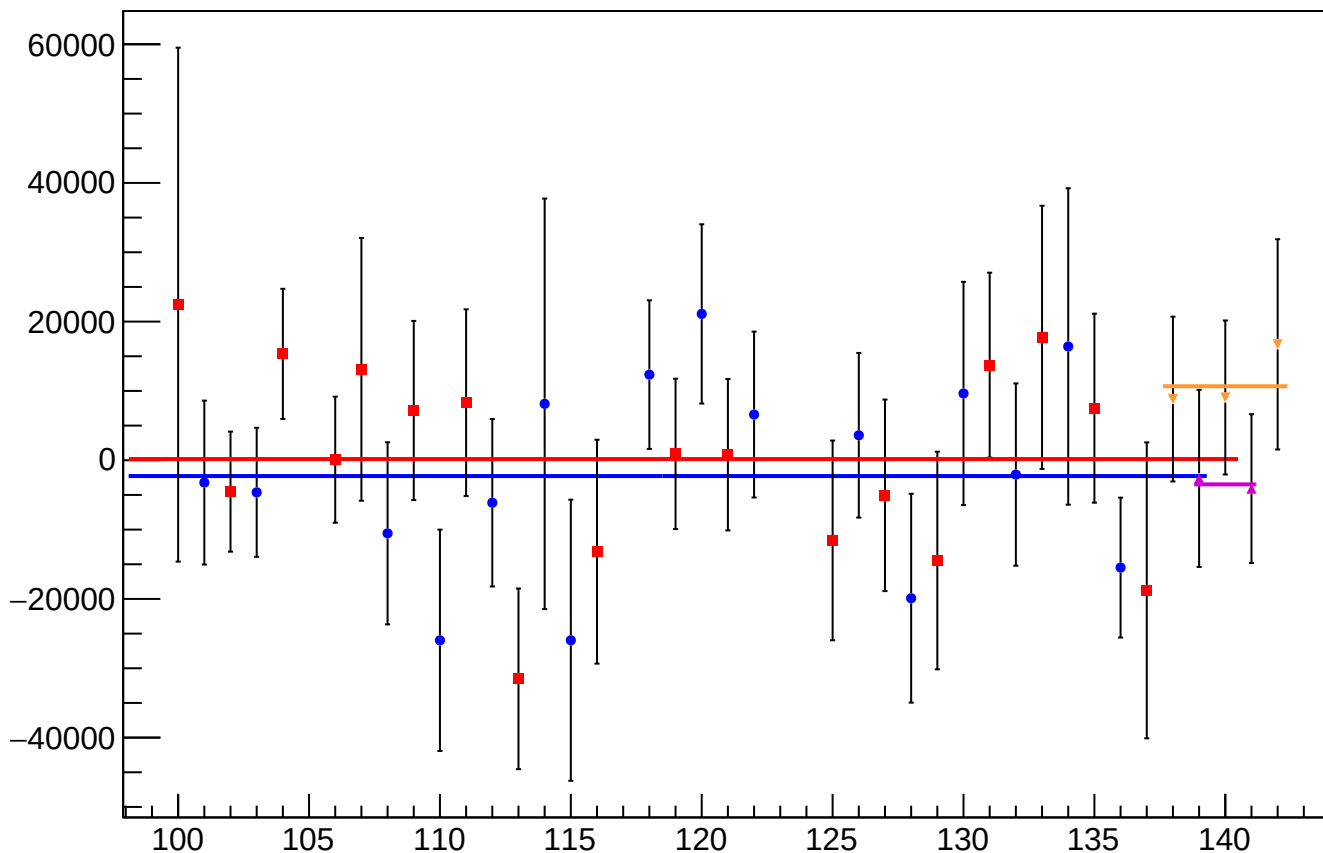
Right: 2223.029 $\pm$ 0.418 χ^2 /NDF: 354638.7/33

In: 2264.706 $\pm$ 0.539 χ^2 /NDF: 213954.6/17

Out: 2279.424 $\pm$ 0.536 χ^2 /NDF: 224571.8/20

All: 2272.105 $\pm$ 0.380 χ^2 /NDF: 438901.6/38

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -2278.440+/-3271.750 χ^2/NDF : 14.5/15

Left Out: 10677.887+/-7154.001 χ^2/NDF : 0.2/2

Right Out: 177.024+/-3035.355 χ^2/NDF : 15.6/17

Left In: -3478.895+/-8218.042 χ^2/NDF : 0.0/1

Left: 4574.744+/-5395.887 χ^2/NDF : 1.9/4

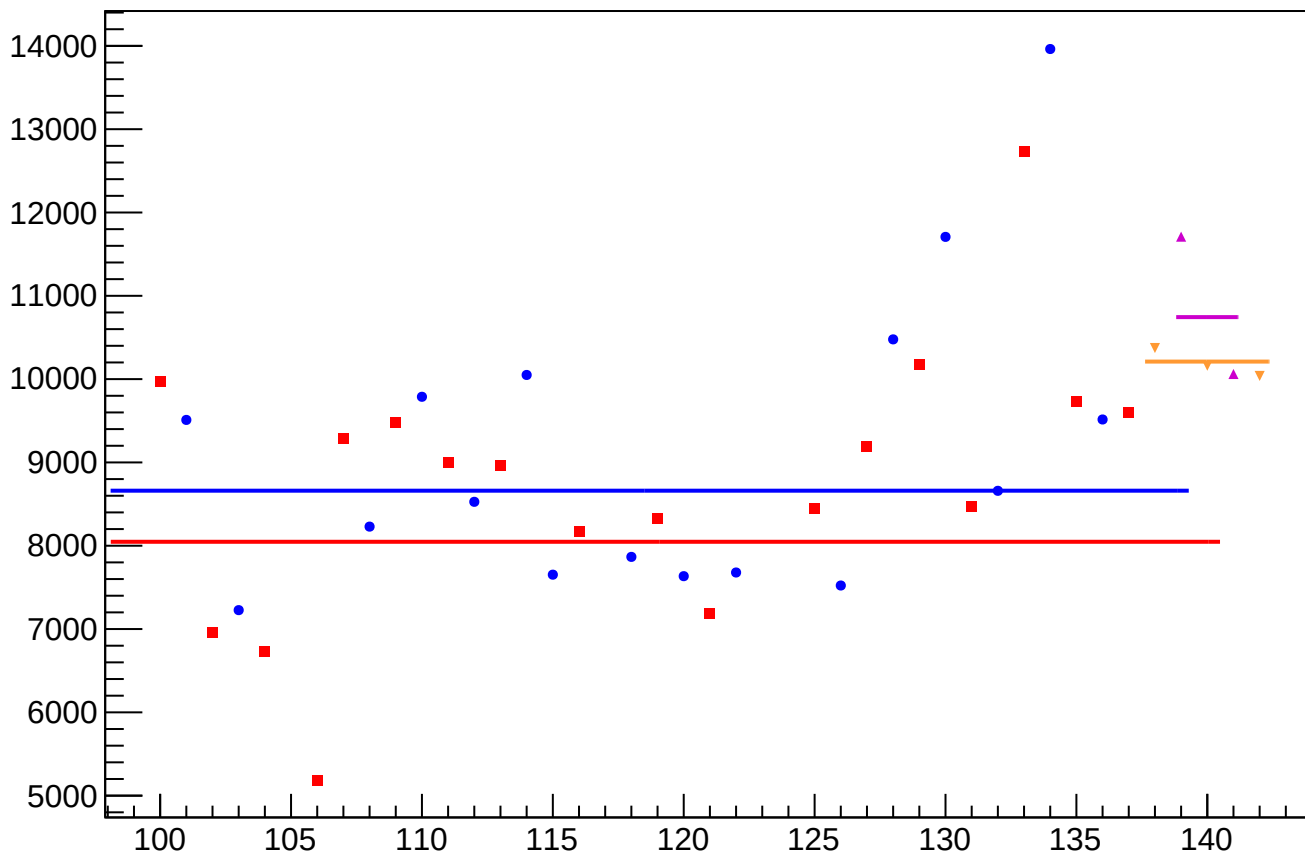
Right: -958.805+/-2225.203 χ^2/NDF : 30.4/33

In: -2442.678+/-3039.712 χ^2/NDF : 14.5/17

Out: 1779.002+/-2794.247 χ^2/NDF : 17.7/20

All: -154.524+/-2057.144 χ^2/NDF : 33.2/38

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 8660.733+/-2.313 χ^2/NDF : 357961.9/15

Left Out: 10210.485+/-5.059 χ^2/NDF : 673.9/2

Right Out: 8047.460+/-2.146 χ^2/NDF : 558559.6/17

Left In: 10744.285+/-5.811 χ^2/NDF : 19527.3/1

Left: 10440.612+/-3.815 χ^2/NDF : 25001.6/4

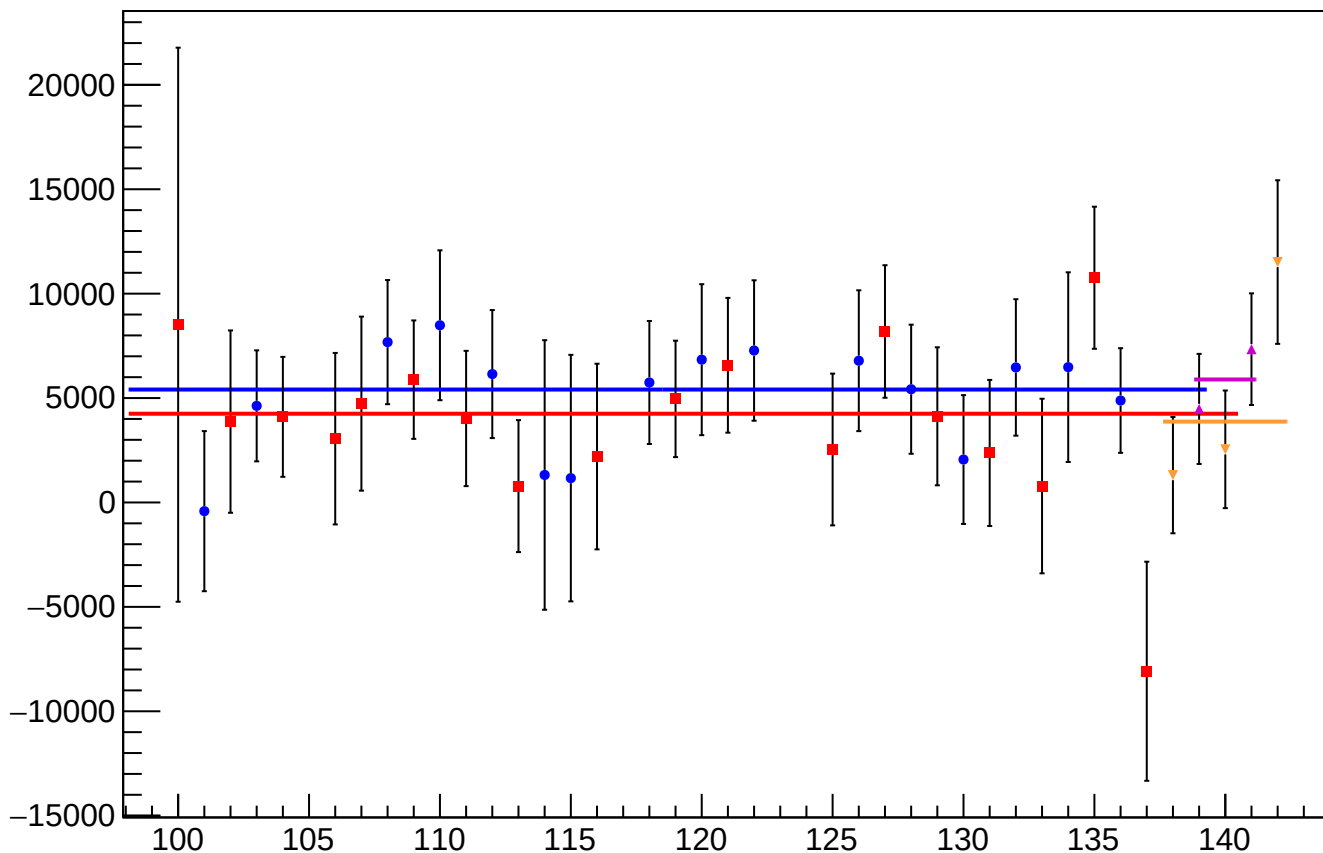
Right: 8331.143+/-1.573 χ^2/NDF : 954287.2/33

In: 8945.790+/-2.149 χ^2/NDF : 488459.5/17

Out: 8377.444+/-1.976 χ^2/NDF : 714174.2/20

All: 8637.746+/-1.455 χ^2/NDF : 1240529.5/38

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5407.869 $\pm$ 833.688 χ^2 /NDF: 6.7/15

Left Out: 3872.465 $\pm$ 1767.246 χ^2 /NDF:4.9/2

Right Out: 4249.903 $\pm$ 839.335 χ^2 /NDF: 14.5/17

Left In: 5890.216 $\pm$ 1876.877 χ^2 /NDF:0.6/1

Left: 4820.693 $\pm$ 1286.644 χ^2 /NDF: 6.1/4

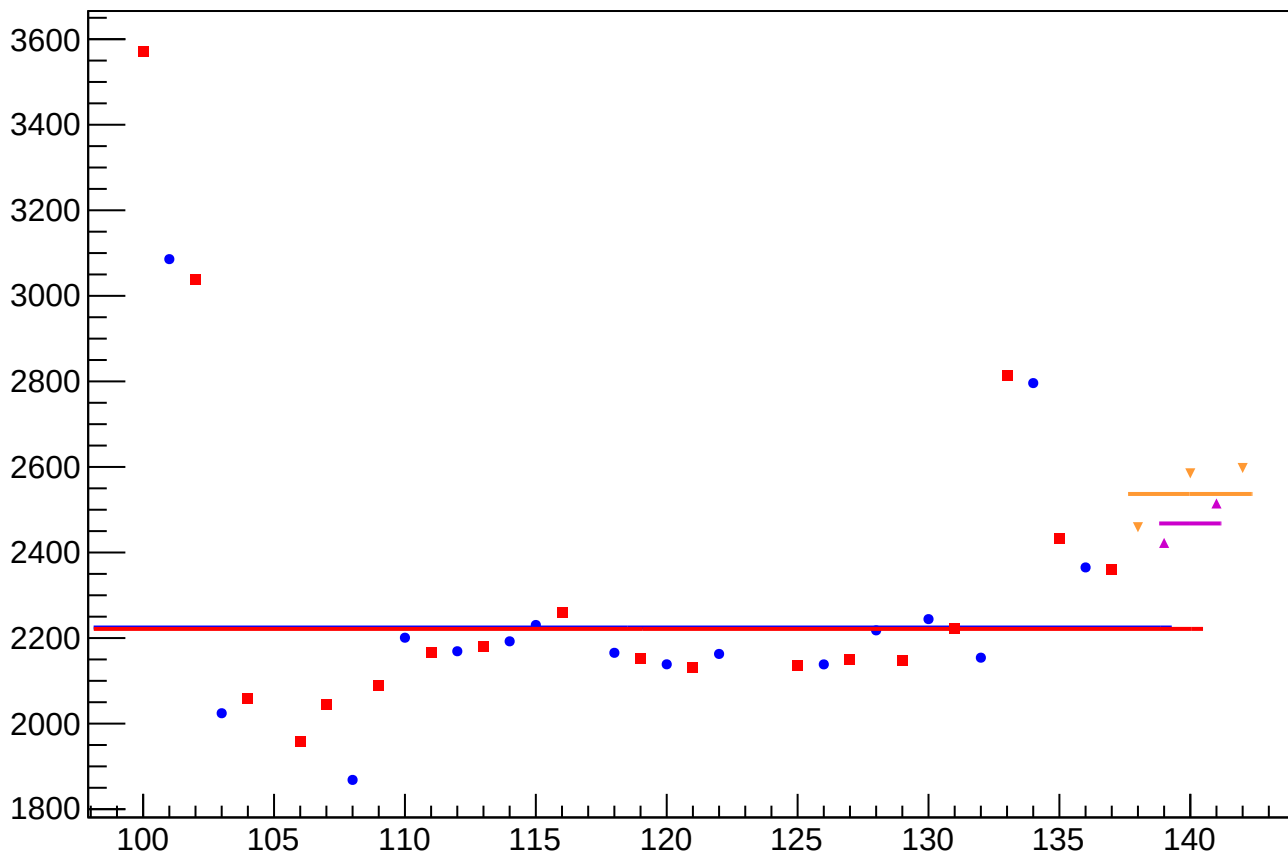
Right: 4832.794 $\pm$ 591.493 χ^2 /NDF: 22.2/33

In: 5487.355 $\pm$ 761.906 χ^2 /NDF:7.4/17

Out: 4180.435 $\pm$ 758.170 χ^2 /NDF:19.4/20

All: 4830.683 $\pm$ 537.423 χ^2 /NDF: 28.2/38

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2224.613+/-0.590 χ^2/NDF : 184680.1/15

Left Out: 2536.864+/-1.250 χ^2/NDF : 2625.3/2

Right Out: 2221.425+/-0.593 χ^2/NDF : 169944.3/17

Left In: 2467.908+/-1.327 χ^2/NDF : 1206.8/1

Left: 2504.459+/-0.910 χ^2/NDF : 5263.1/4

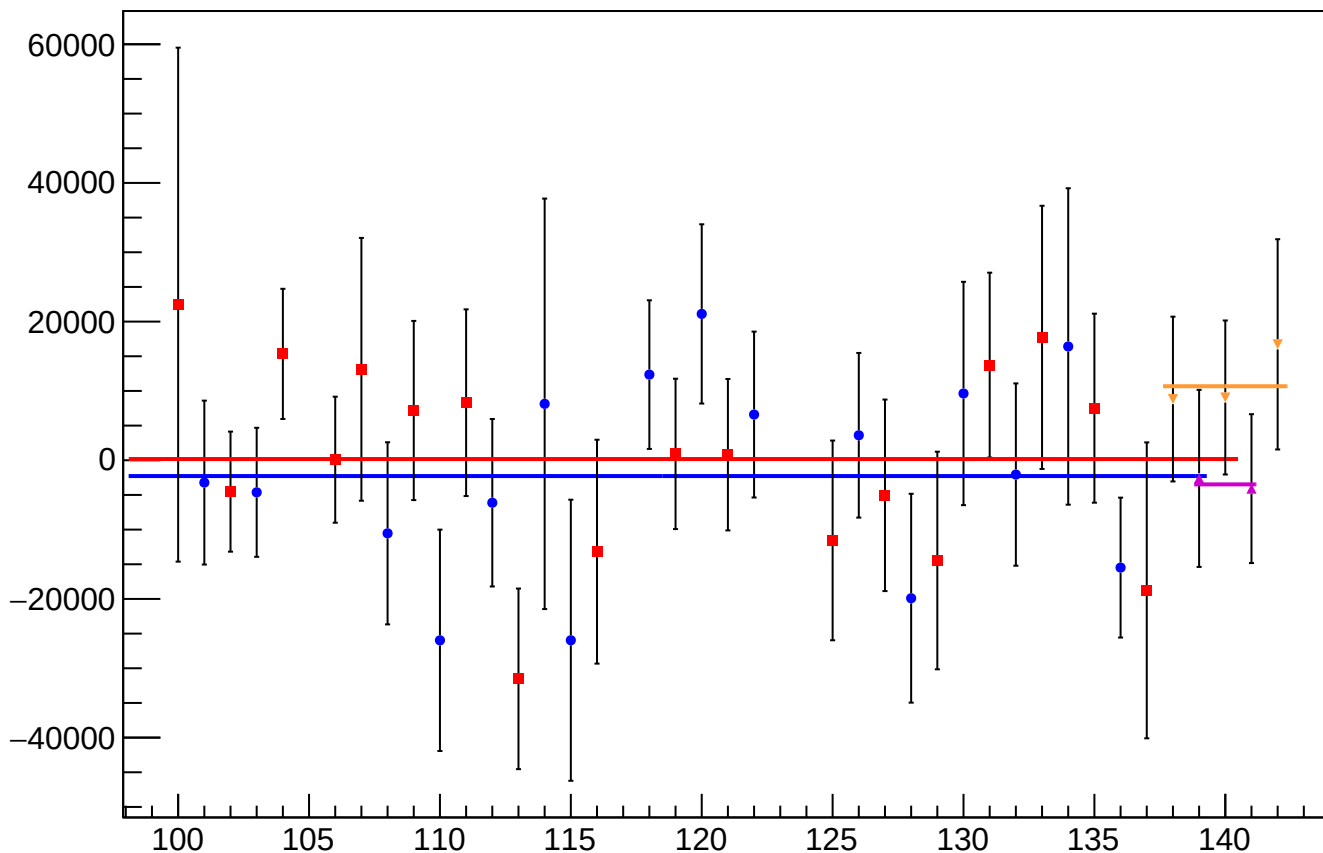
Right: 2223.029+/-0.418 χ^2/NDF : 354639.0/33

In: 2264.706+/-0.539 χ^2/NDF : 213955.5/17

Out: 2279.423+/-0.536 χ^2/NDF : 224572.7/20

All: 2272.104+/-0.380 χ^2/NDF : 438903.4/38

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -2278.418 $\pm$ 3271.742 χ^2 /NDF: 14.5/15

Left Out: 10677.920 $\pm$ 7154.014 χ^2 /NDF: 0.2/2

Right Out: 177.029 $\pm$ 3035.348 χ^2 /NDF: 15.6/17

Left In: -3478.919 $\pm$ 8218.055 χ^2 /NDF: 0.0/1

Left: 4574.752 $\pm$ 5395.896 χ^2 /NDF: 1.9/4

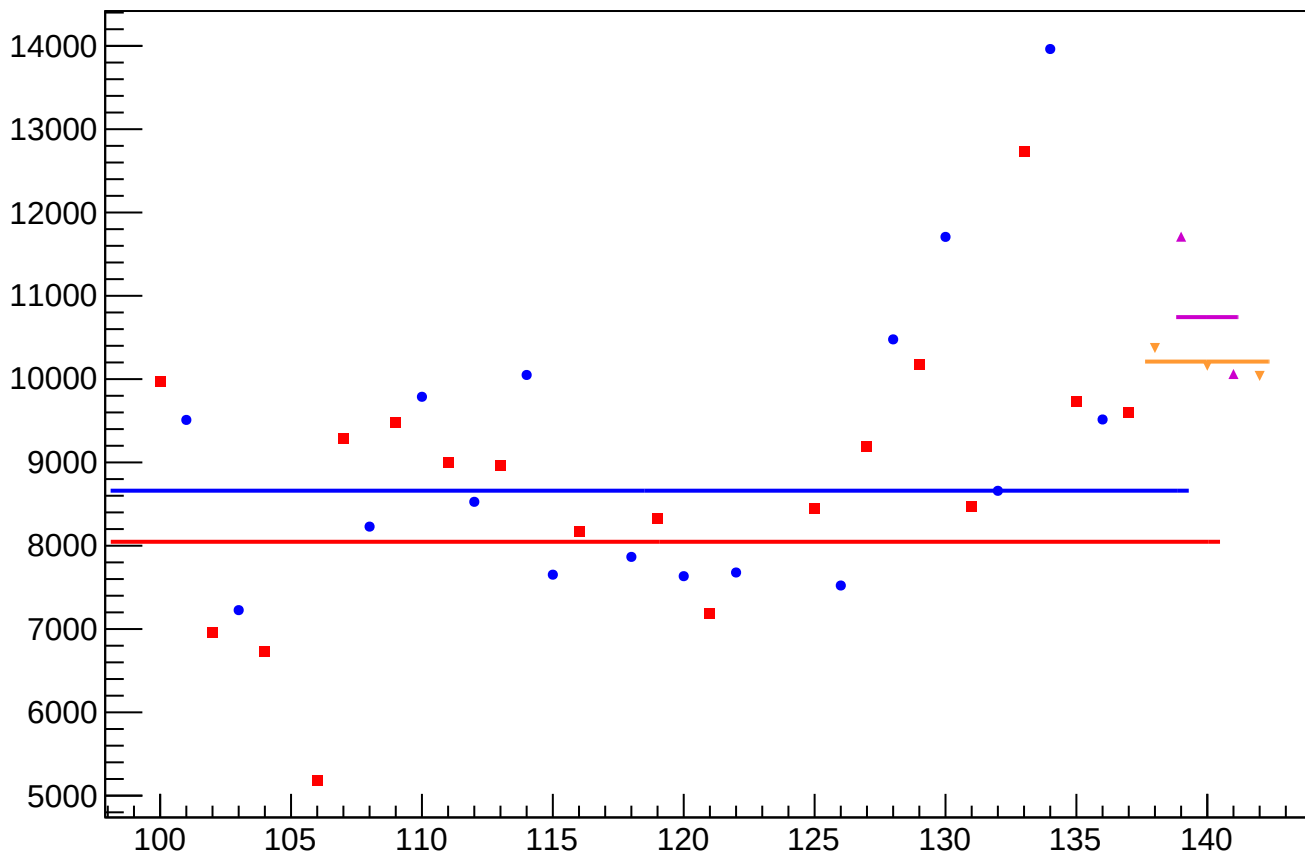
Right: -958.792 $\pm$ 2225.198 χ^2 /NDF: 30.4/33

In: -2442.661 $\pm$ 3039.707 χ^2 /NDF: 14.5/17

Out: 1779.001 $\pm$ 2794.242 χ^2 /NDF: 17.7/20

All: -154.517 $\pm$ 2057.141 χ^2 /NDF: 33.2/38

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 8660.711+/-2.313 χ^2/NDF : 357964.1/15

Left Out: 10210.502+/-5.059 χ^2/NDF : 673.9/2

Right Out: 8047.442+/-2.146 χ^2/NDF : 558557.8/17

Left In: 10744.301+/-5.811 χ^2/NDF : 19527.8/1

Left: 10440.629+/-3.815 χ^2/NDF : 25002.1/4

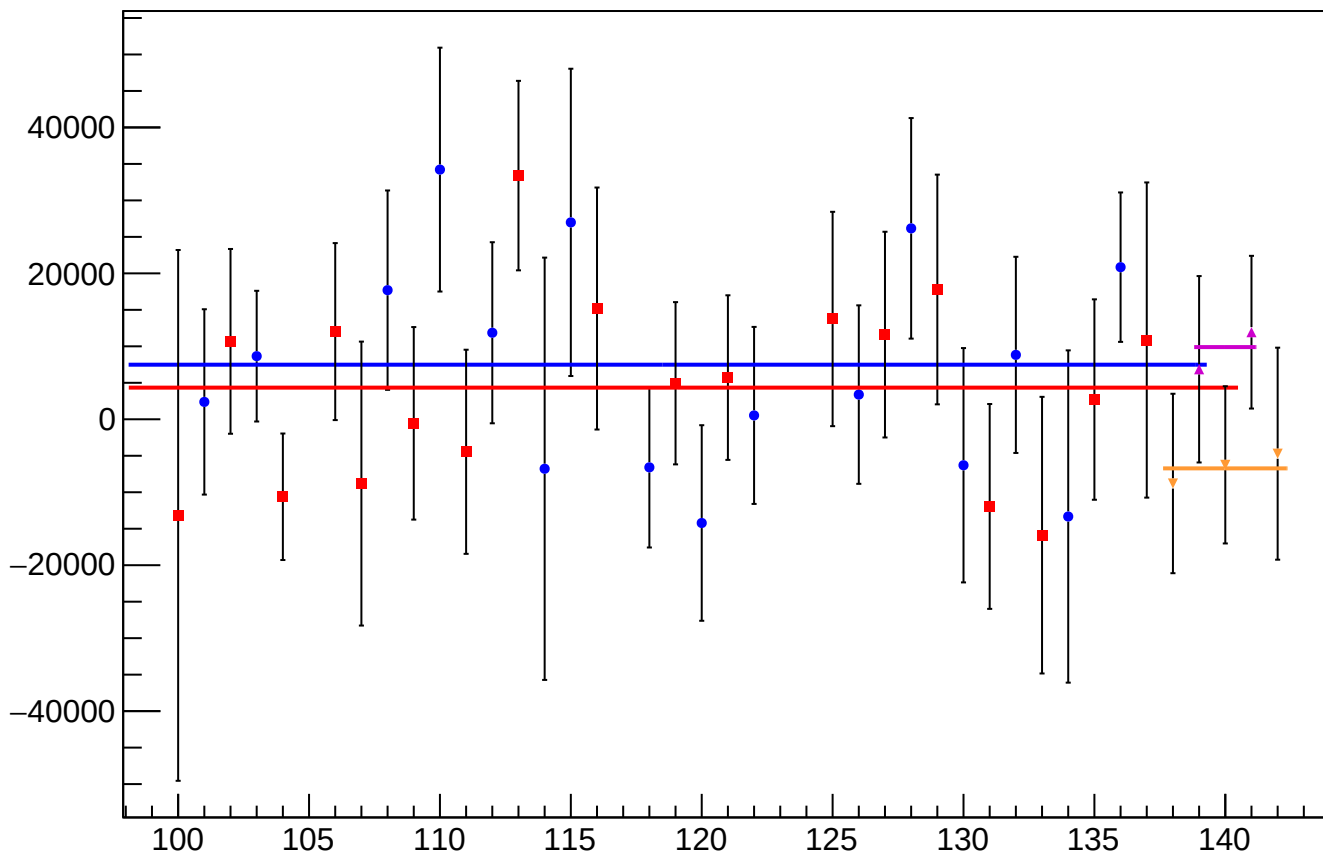
Right: 8331.123+/-1.573 χ^2/NDF : 954287.4/33

In: 8945.772+/-2.149 χ^2/NDF : 488466.0/17

Out: 8377.429+/-1.976 χ^2/NDF : 714177.2/20

All: 8637.730+/-1.455 χ^2/NDF : 1240538.7/38

asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 7481.770+/-3330.915 χ^2/NDF : 14.0/15

Left Out: -6728.205+/-7077.115 χ^2/NDF : 0.0/2

Right Out: 4338.165+/-3242.620 χ^2/NDF : 14.3/17

Left In: 9895.639+/-8095.759 χ^2/NDF : 0.1/1

Left: 472.668+/-5328.248 χ^2/NDF : 2.5/4

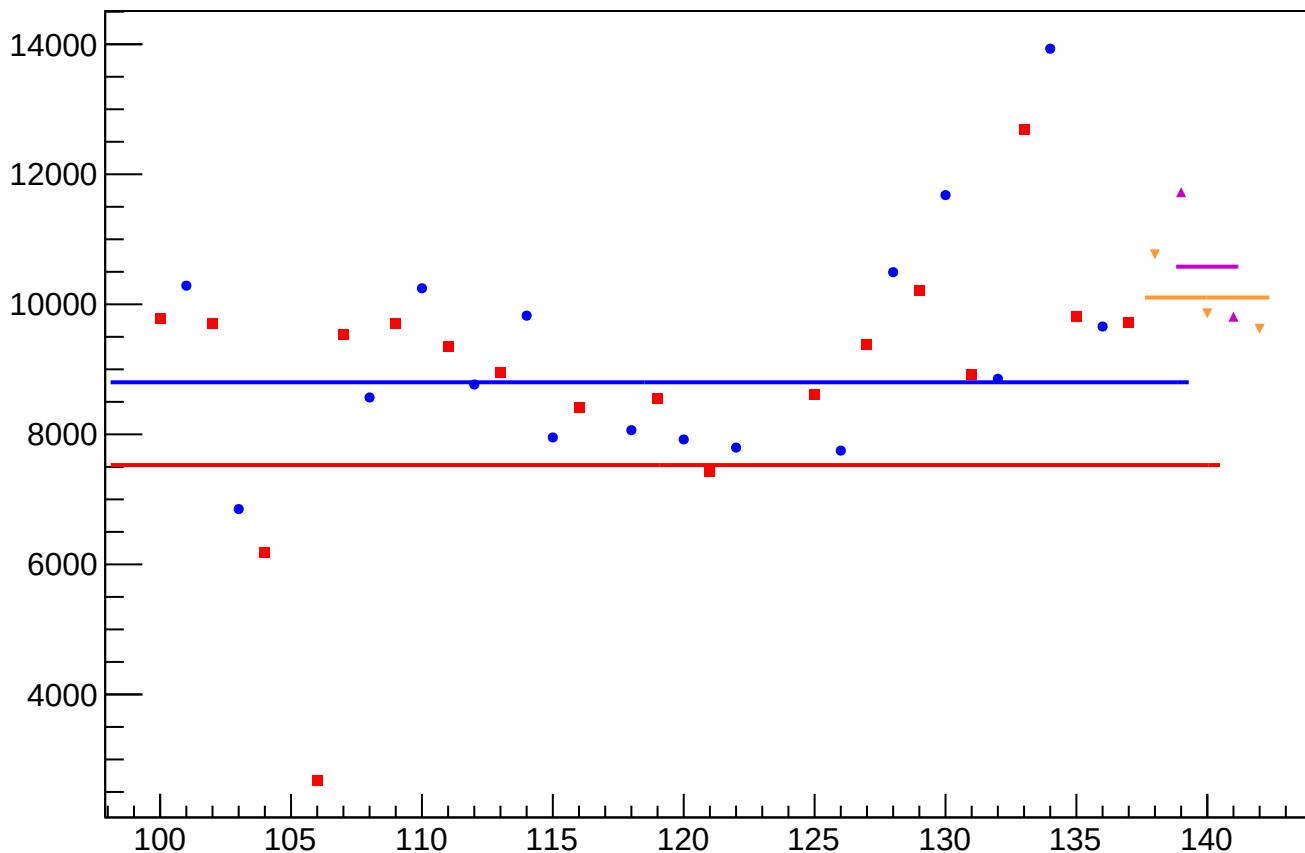
Right: 5867.751+/-2323.467 χ^2/NDF : 28.8/33

In: 7831.237+/-3080.377 χ^2/NDF : 14.2/17

Out: 2418.066+/-2947.919 χ^2/NDF : 16.4/20

All: 5005.767+/-2129.781 χ^2/NDF : 32.2/38

asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 8801.075+/-2.355 χ^2/NDF : 394575.1/15

Left Out: 10104.271+/-5.004 χ^2/NDF : 9061.5/2

Right Out: 7527.803+/-2.128 χ^2/NDF : 1657299.8/17

Left In: 10579.421+/-5.725 χ^2/NDF : 26891.3/1

Left: 10310.090+/-3.768 χ^2/NDF : 39857.9/4

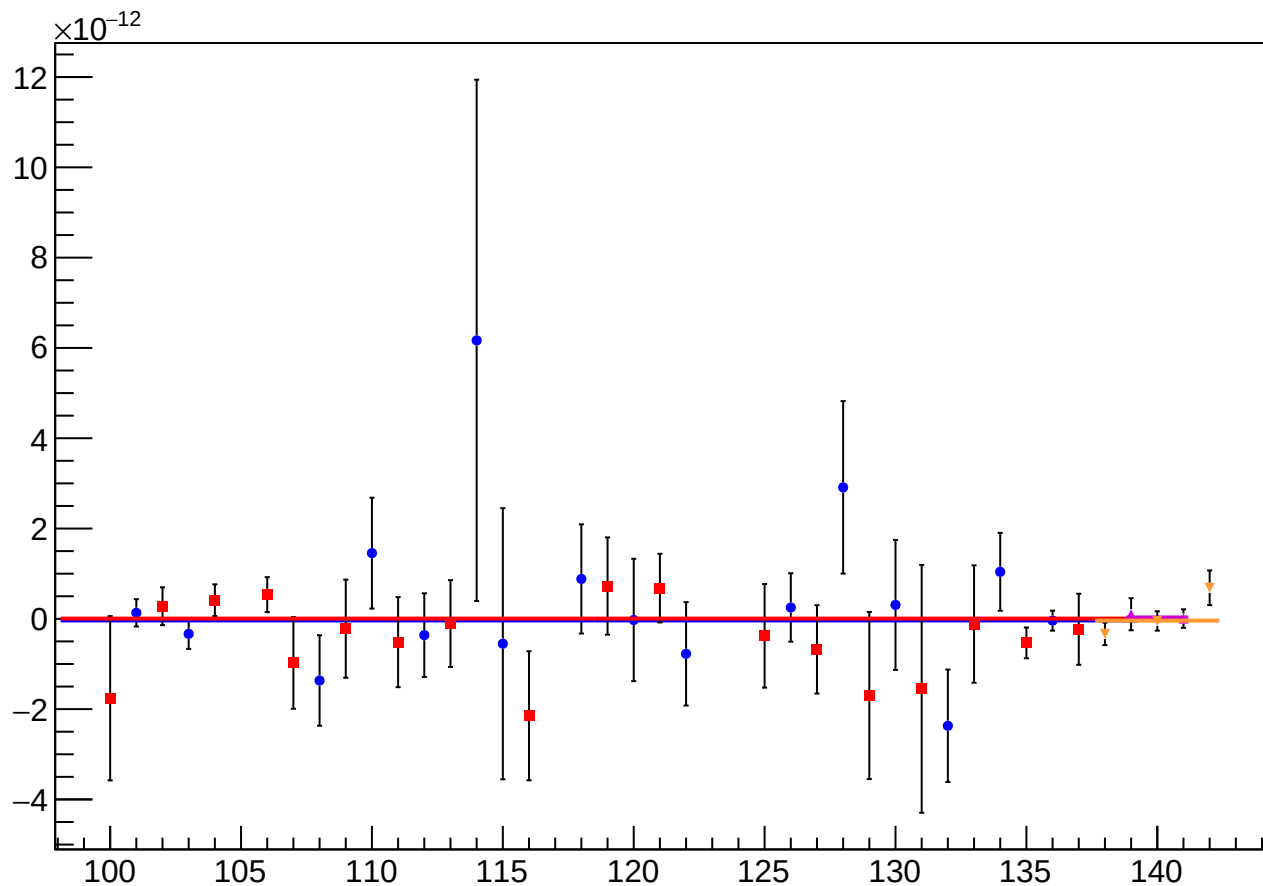
Right: 8100.150+/-1.579 χ^2/NDF : 2212756.1/33

In: 9058.529+/-2.178 χ^2/NDF : 503999.8/17

Out: 7922.453+/-1.959 χ^2/NDF : 1890832.6/20

All: 8430.355+/-1.456 χ^2/NDF : 2545257.0/38

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 14.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 5.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 13.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.1/1

Left: -0.000+/-0.000 χ^2/NDF : 5.1/4

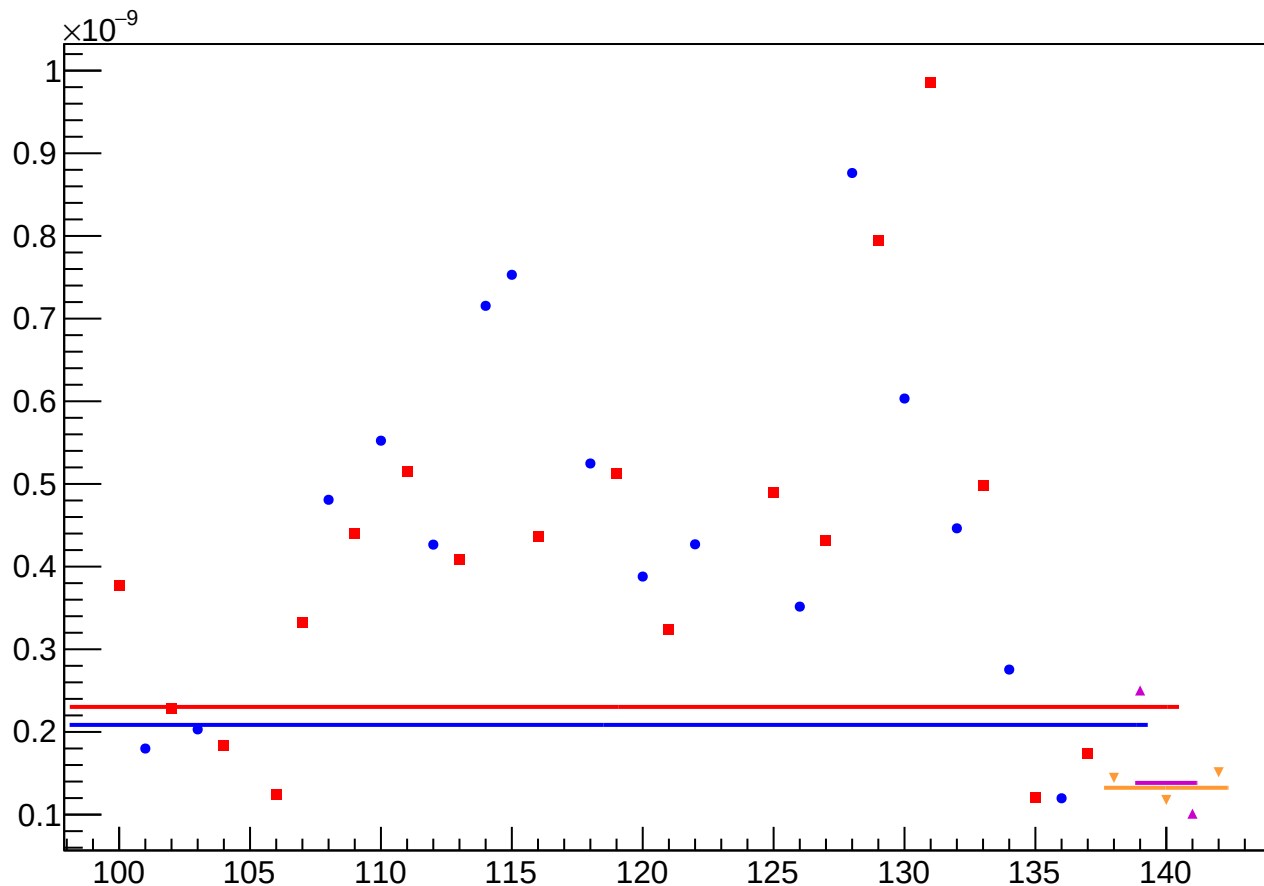
Right: -0.000+/-0.000 χ^2/NDF : 28.1/33

In: -0.000+/-0.000 χ^2/NDF : 14.4/17

Out: -0.000+/-0.000 χ^2/NDF : 18.7/20

All: -0.000+/-0.000 χ^2/NDF : 33.2/38

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1632322.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 18944.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1561654.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 264024.1/1

Left: 0.000+/-0.000 χ^2/NDF : 284265.9/4

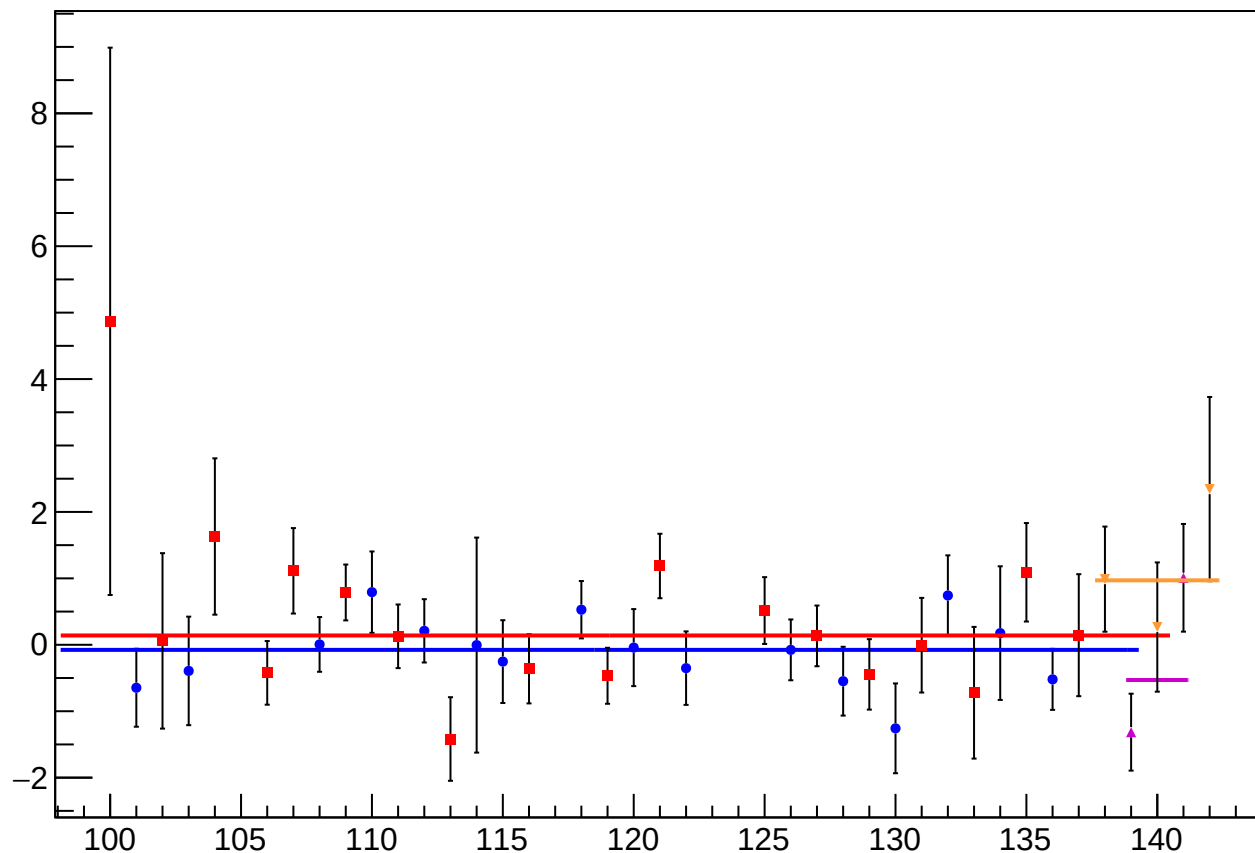
Right: 0.000+/-0.000 χ^2/NDF : 3215206.8/33

In: 0.000+/-0.000 χ^2/NDF : 2087009.7/17

Out: 0.000+/-0.000 χ^2/NDF : 1989397.5/20

All: 0.000+/-0.000 χ^2/NDF : 4076788.0/38

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.076 ± 0.140 χ^2/NDF : 12.5/15

Left Out: 0.970 ± 0.561 χ^2/NDF : 1.5/2

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.530 ± 0.471 χ^2/NDF : 5.4/1

Left: 0.090 ± 0.361 χ^2/NDF : 11.1/4

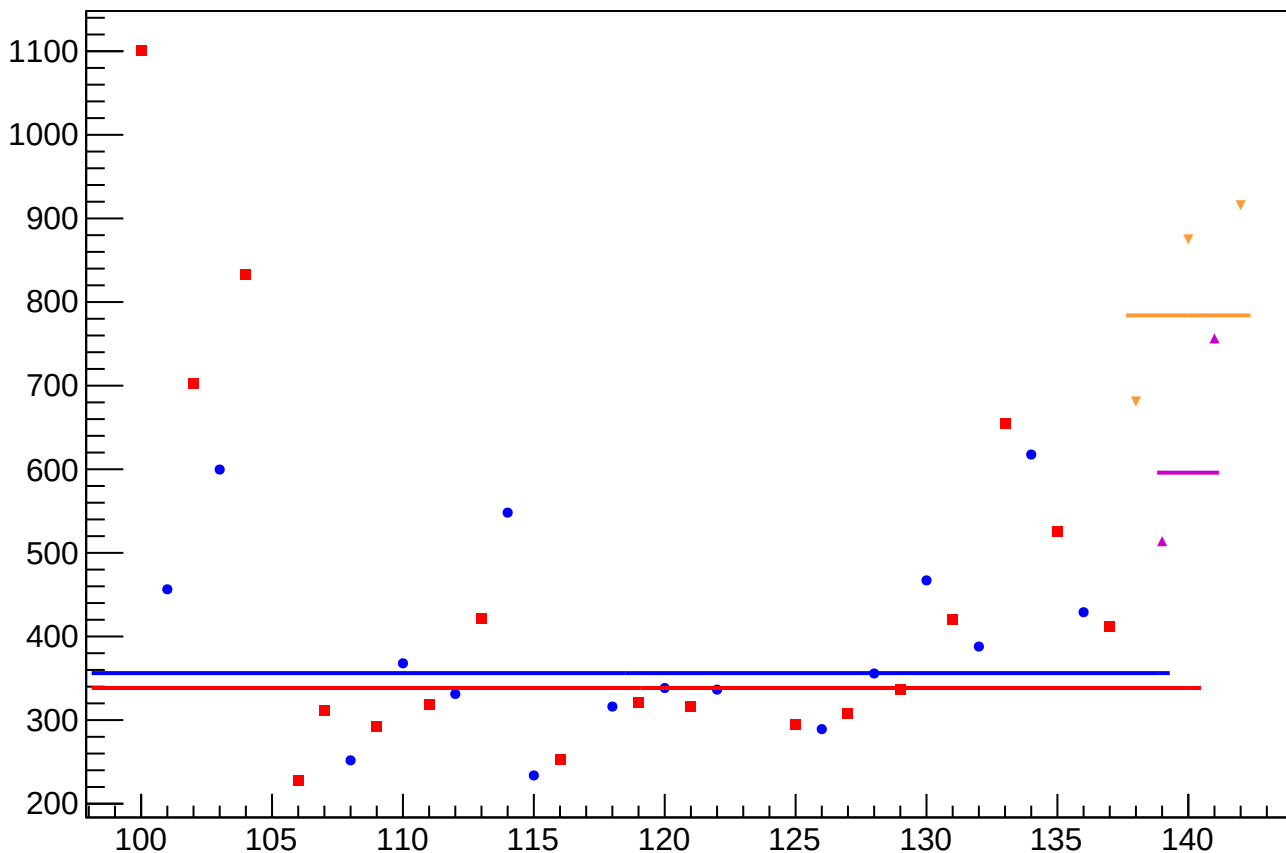
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.113 ± 0.134 χ^2/NDF : 18.8/17

Out: 0.188 ± 0.134 χ^2/NDF : 30.5/20

All: 0.037 ± 0.095 χ^2/NDF : 51.9/38

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 356.190 $\pm$ 0.099 χ^2 /NDF: 785107.3/15

Left Out: 784.039 $\pm$ 0.397 χ^2 /NDF:69348.4/2

Right Out: 338.410 $\pm$ 0.098 χ^2 /NDF: 1203282.0/17

Left In: 595.952 $\pm$ 0.333 χ^2 /NDF:118507.2/1

Left: 673.705 $\pm$ 0.255 χ^2 /NDF: 319584.0/4

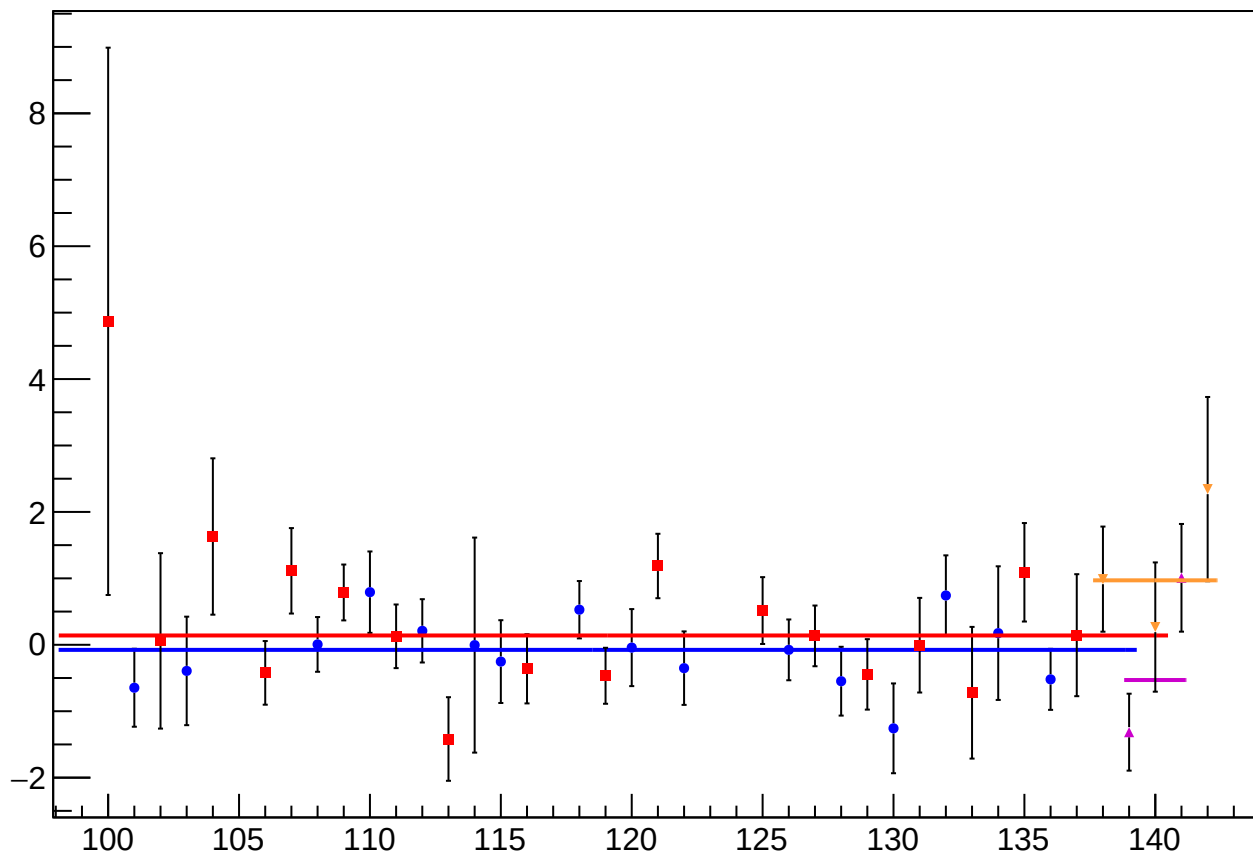
Right: 347.176 $\pm$ 0.069 χ^2 /NDF: 2004764.4/33

In: 375.612 $\pm$ 0.095 χ^2 /NDF:1379472.6/17

Out: 363.800 $\pm$ 0.095 χ^2 /NDF:2461354.8/20

All: 369.700 $\pm$ 0.067 χ^2 /NDF: 3848592.5/38

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.076 ± 0.140 χ^2/NDF : 12.5/15

Left Out: 0.970 ± 0.561 χ^2/NDF : 1.5/2

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.530 ± 0.471 χ^2/NDF : 5.4/1

Left: 0.090 ± 0.361 χ^2/NDF : 11.1/4

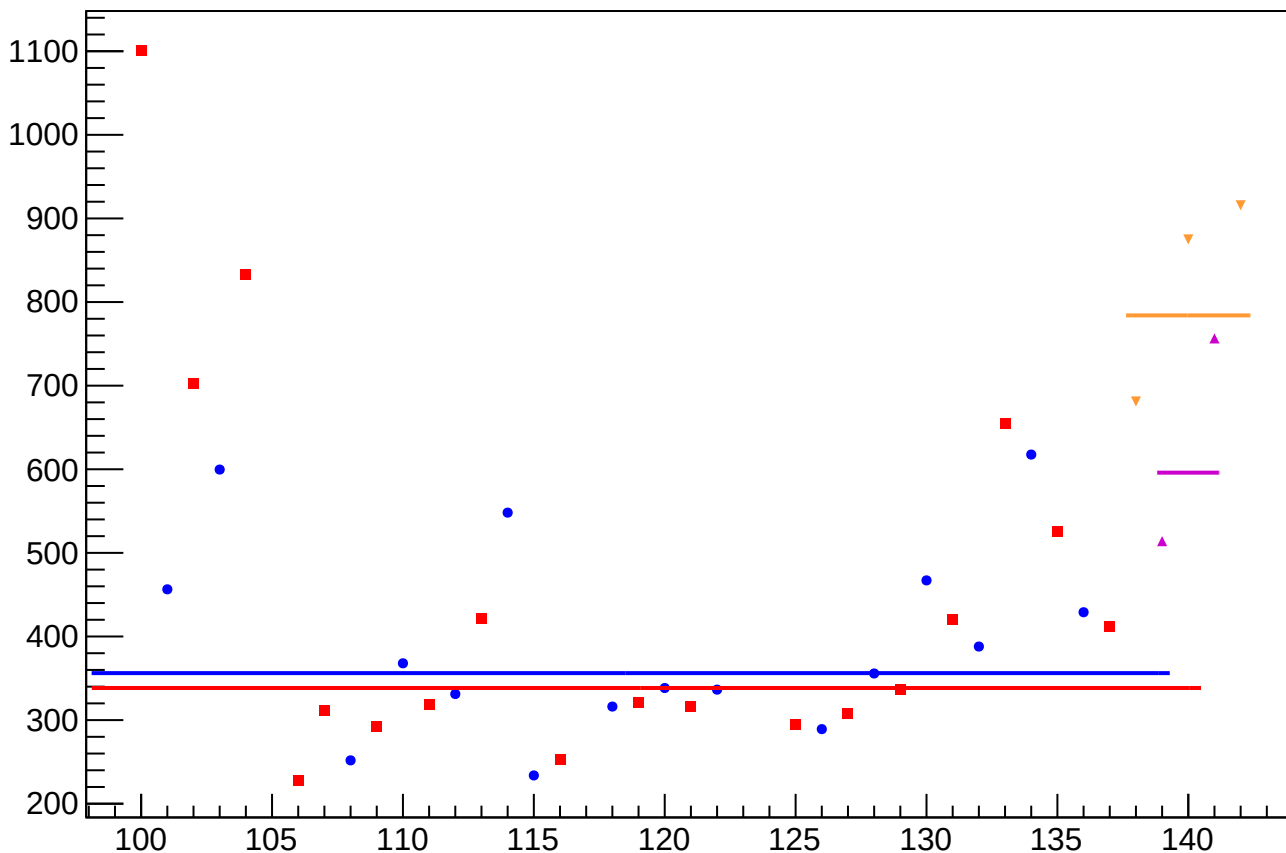
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.113 ± 0.134 χ^2/NDF : 18.8/17

Out: 0.188 ± 0.134 χ^2/NDF : 30.5/20

All: 0.037 ± 0.095 χ^2/NDF : 51.9/38

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 356.190+/-0.099 χ^2/NDF : 785107.3/15

Left Out: 784.039+/-0.397 χ^2/NDF : 69348.4/2

Right Out: 338.410+/-0.098 χ^2/NDF : 1203282.0/17

Left In: 595.952+/-0.333 χ^2/NDF : 118507.2/1

Left: 673.705+/-0.255 χ^2/NDF : 319584.0/4

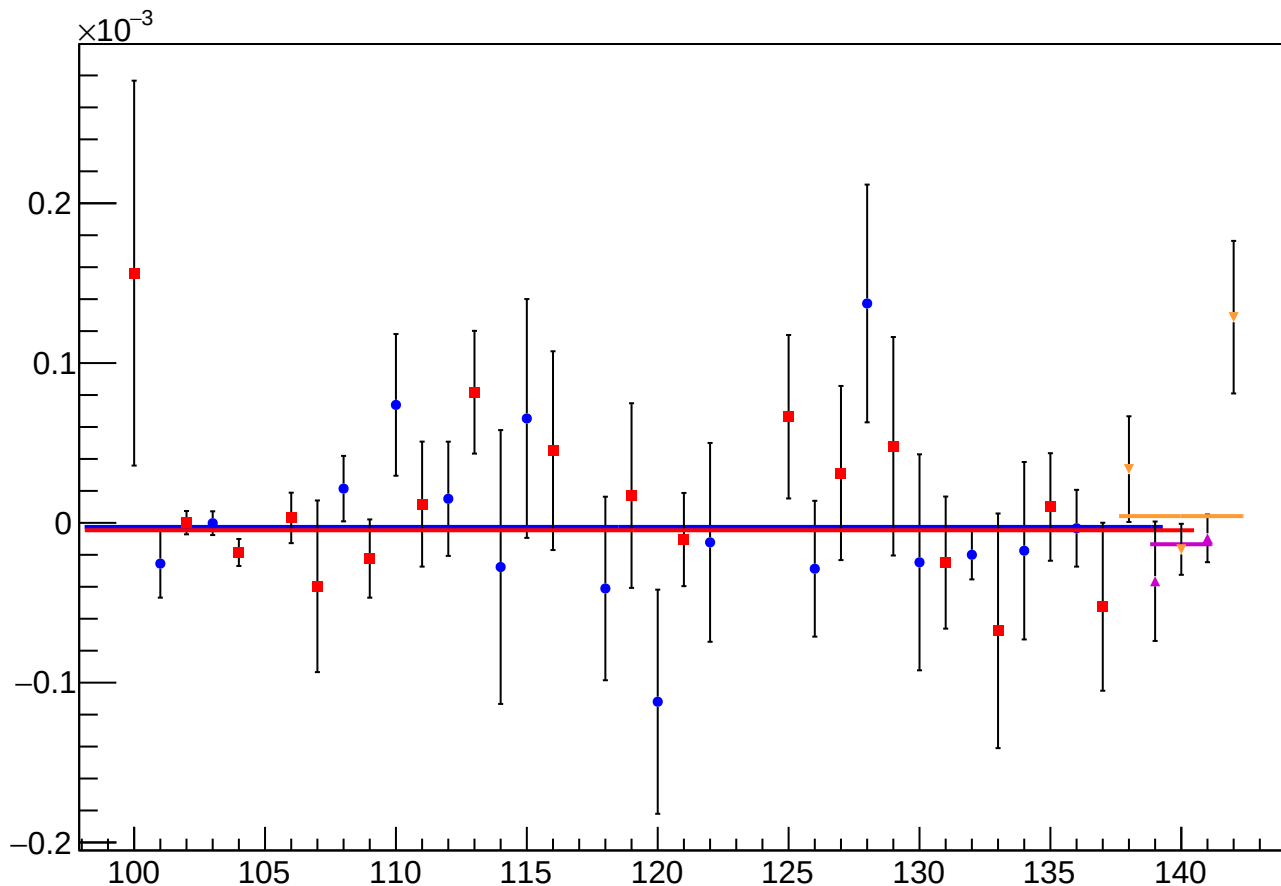
Right: 347.176+/-0.069 χ^2/NDF : 2004764.4/33

In: 375.612+/-0.095 χ^2/NDF : 1379472.6/17

Out: 363.800+/-0.095 χ^2/NDF : 2461354.8/20

All: 369.700+/-0.067 χ^2/NDF : 3848592.5/38

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.0/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:9.3/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 17.1/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:0.4/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 10.5/4

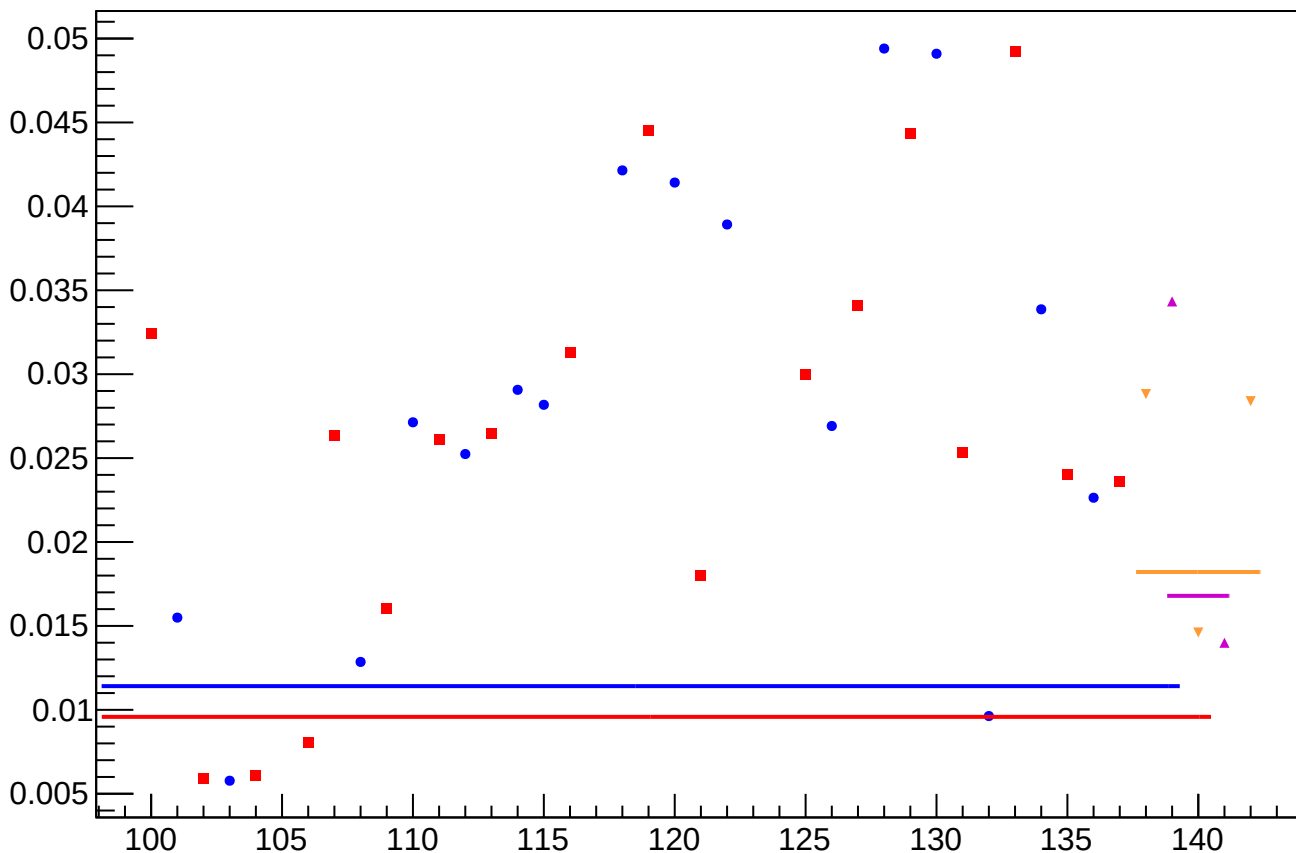
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 32.2/33

In: -0.000 $\pm$ 0.000 χ^2 /NDF:16.0/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:26.8/20

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 42.8/38

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 5500651.2/15

Left Out: 0.018+/-0.000 χ^2/NDF : 398356.1/2

Right Out: 0.010+/-0.000 χ^2/NDF : 5787700.4/17

Left In: 0.017+/-0.000 χ^2/NDF : 511053.2/1

Left: 0.018+/-0.000 χ^2/NDF : 919999.7/4

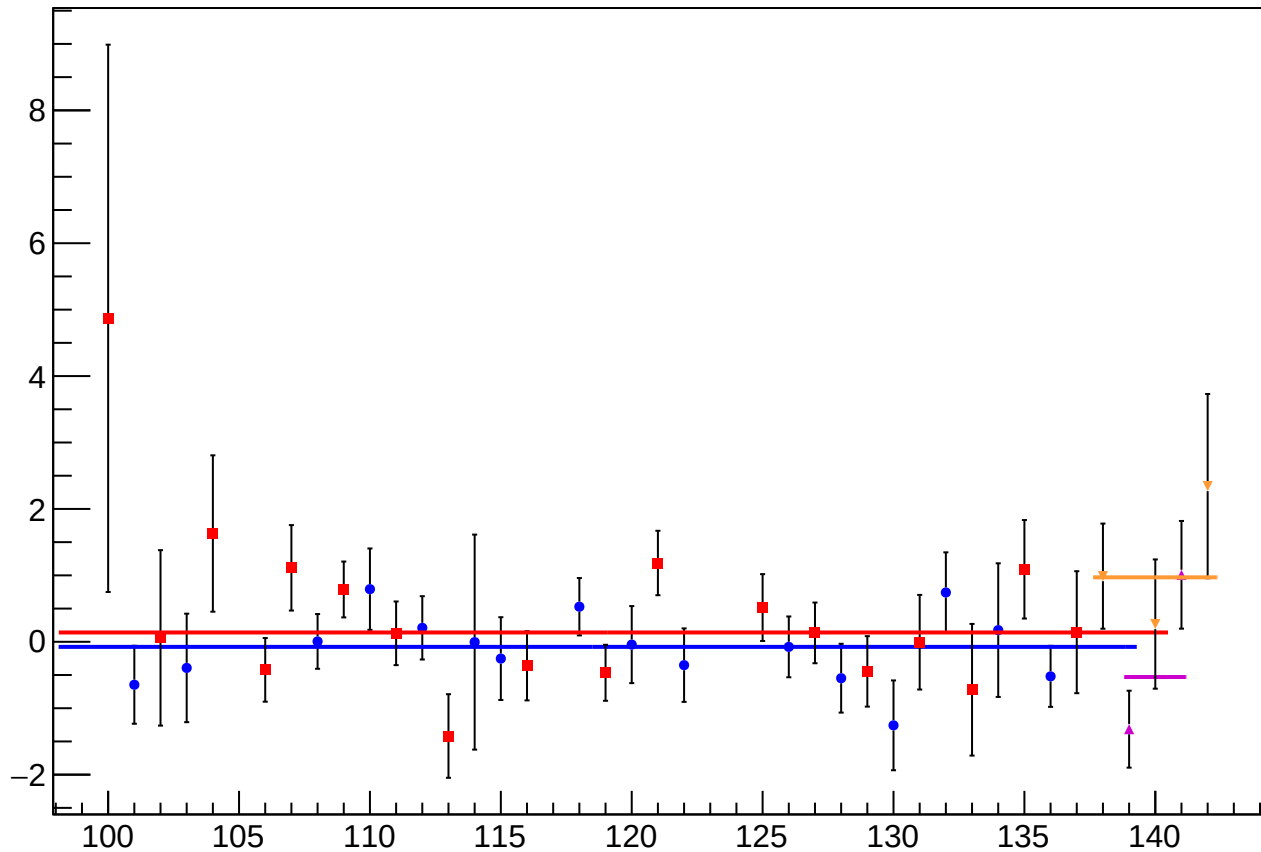
Right: 0.010+/-0.000 χ^2/NDF : 11414181.9/33

In: 0.012+/-0.000 χ^2/NDF : 6271567.3/17

Out: 0.010+/-0.000 χ^2/NDF : 6889725.8/20

All: 0.011+/-0.000 χ^2/NDF : 13280790.3/38

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.076 ± 0.140 χ^2/NDF : 12.5/15

Left Out: 0.970 ± 0.561 χ^2/NDF : 1.5/2

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.530 ± 0.471 χ^2/NDF : 5.4/1

Left: 0.090 ± 0.361 χ^2/NDF : 11.1/4

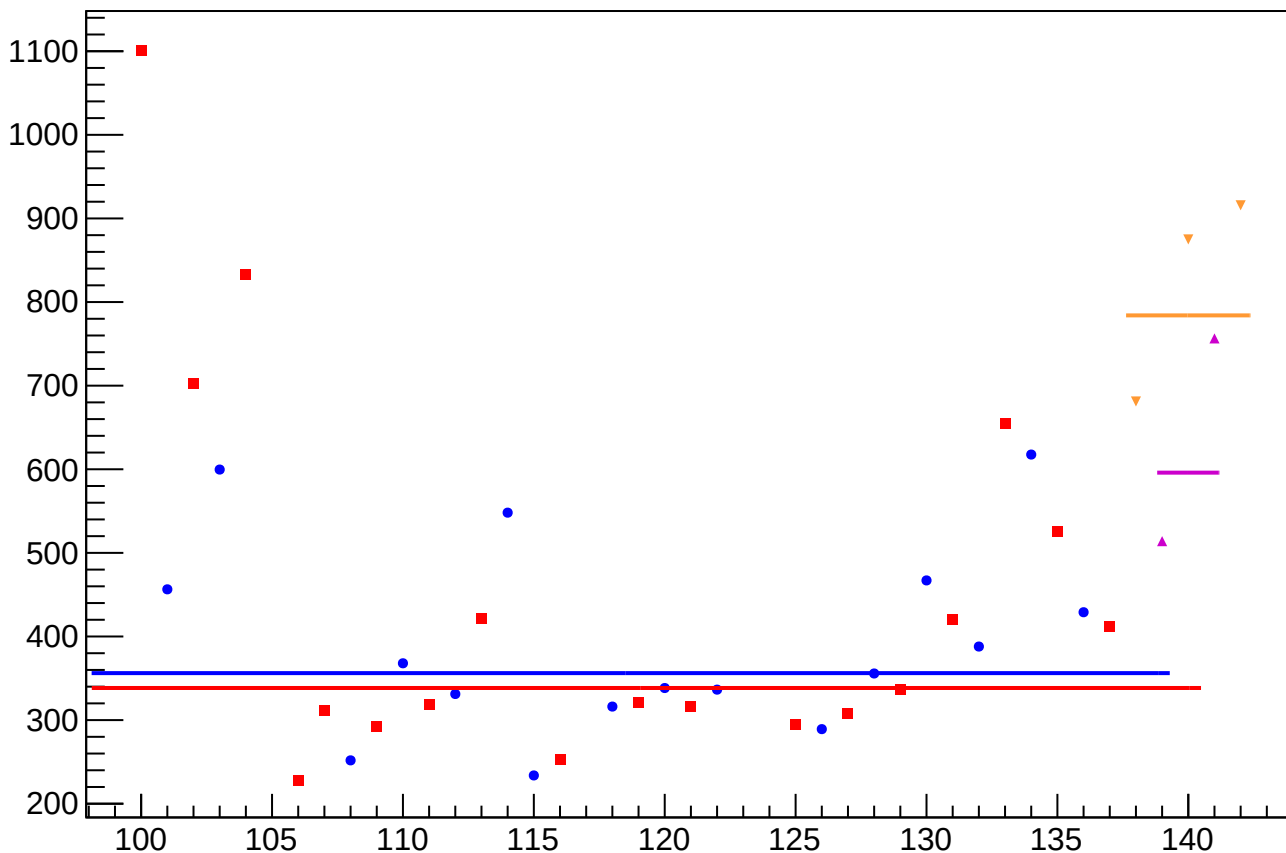
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.113 ± 0.134 χ^2/NDF : 18.8/17

Out: 0.188 ± 0.134 χ^2/NDF : 30.5/20

All: 0.037 ± 0.095 χ^2/NDF : 51.9/38

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 356.188+/-0.099 χ^2/NDF : 785072.9/15

Left Out: 784.046+/-0.397 χ^2/NDF :69348.6/2

Right Out: 338.408+/-0.098 χ^2/NDF : 1203260.7/17

Left In: 595.963+/-0.333 χ^2/NDF :118497.3/1

Left: 673.715+/-0.255 χ^2/NDF : 319565.6/4

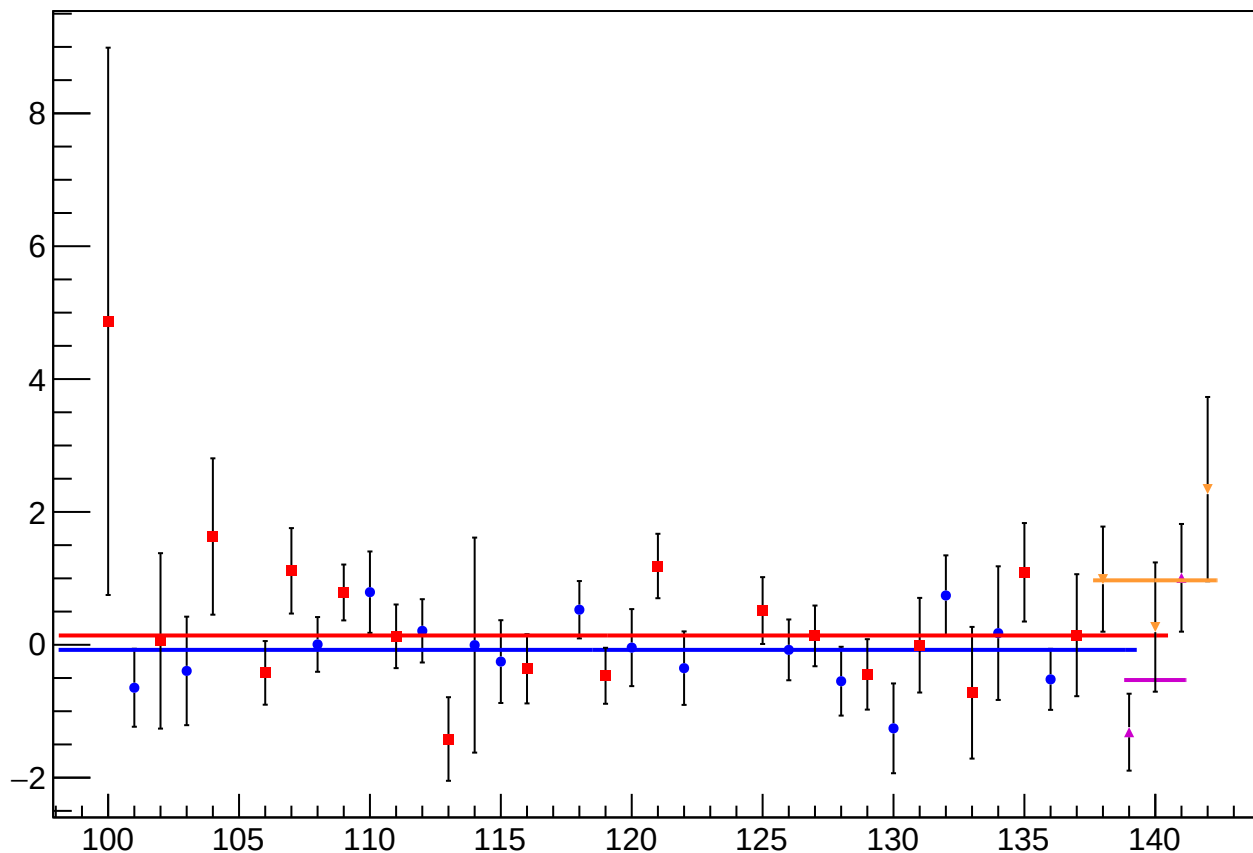
Right: 347.175+/-0.069 χ^2/NDF : 2004710.0/33

In: 375.611+/-0.095 χ^2/NDF :1379463.6/17

Out: 363.798+/-0.095 χ^2/NDF :2461365.5/20

All: 369.698+/-0.067 χ^2/NDF : 3848595.7/38

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.076 ± 0.140 χ^2/NDF : 12.5/15

Left Out: 0.970 ± 0.561 χ^2/NDF : 1.5/2

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.530 ± 0.471 χ^2/NDF : 5.4/1

Left: 0.090 ± 0.361 χ^2/NDF : 11.1/4

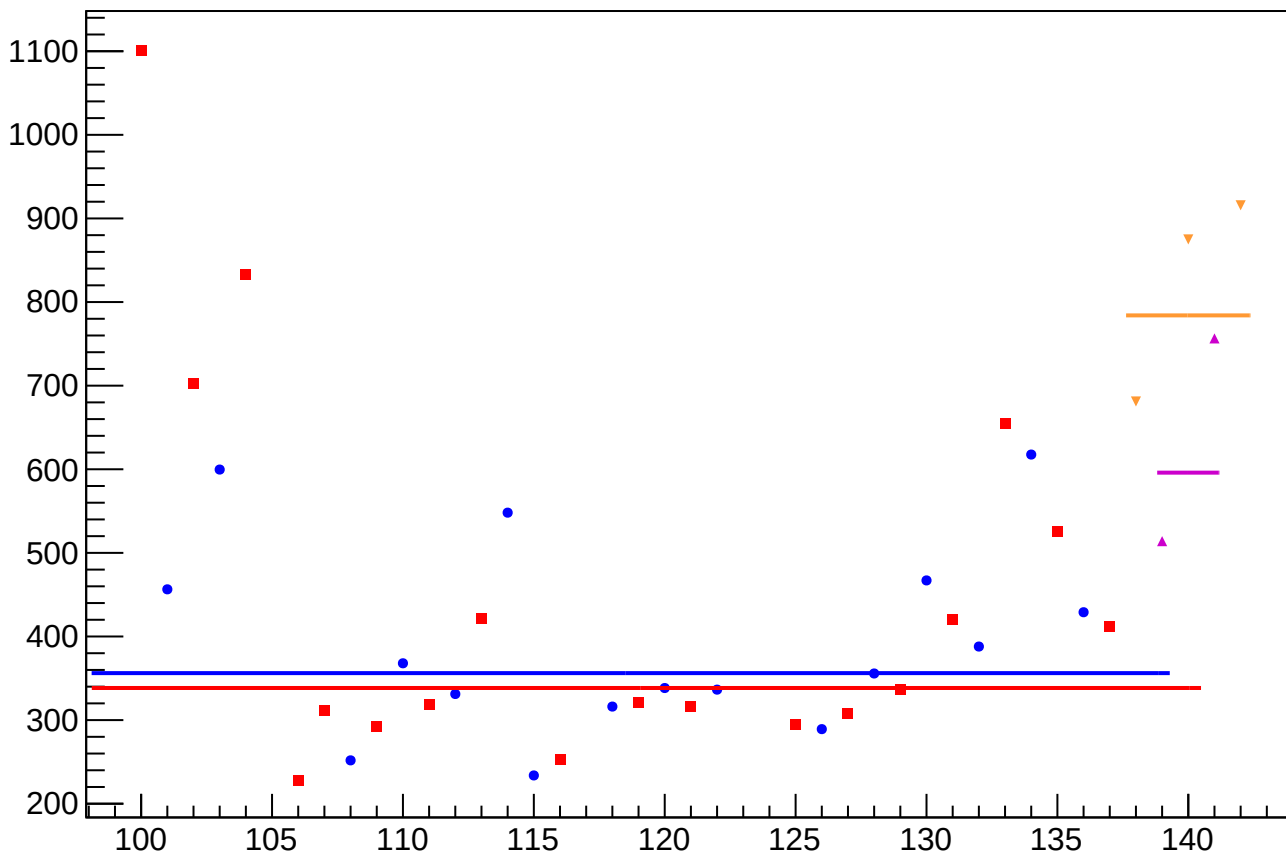
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.113 ± 0.134 χ^2/NDF : 18.8/17

Out: 0.188 ± 0.134 χ^2/NDF : 30.5/20

All: 0.037 ± 0.095 χ^2/NDF : 51.9/38

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 356.188 $\pm$ 0.099 χ^2 /NDF: 785072.9/15

Left Out: 784.046 $\pm$ 0.397 χ^2 /NDF:69348.6/2

Right Out: 338.408 $\pm$ 0.098 χ^2 /NDF: 1203260.7/17

Left In: 595.963 $\pm$ 0.333 χ^2 /NDF:118497.3/1

Left: 673.715 $\pm$ 0.255 χ^2 /NDF: 319565.6/4

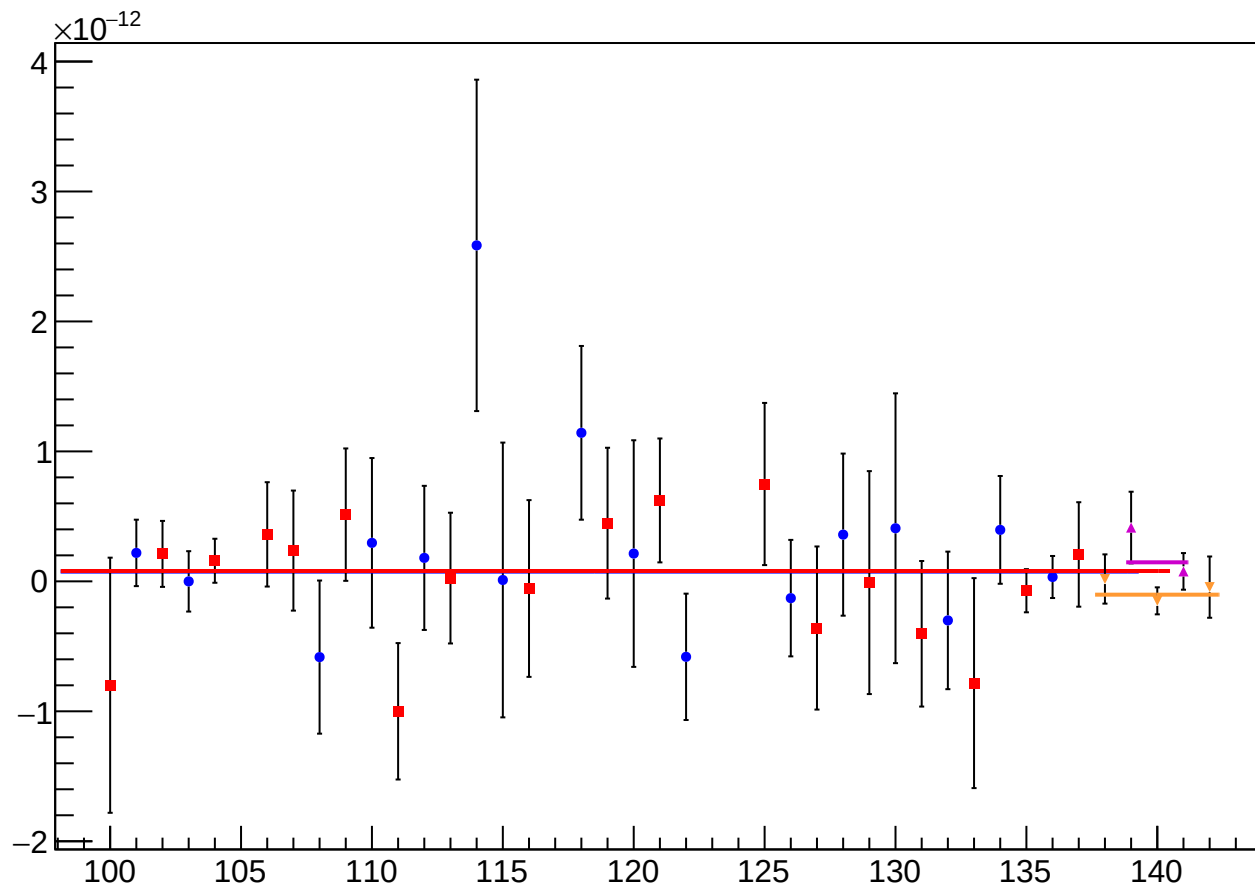
Right: 347.175 $\pm$ 0.069 χ^2 /NDF: 2004710.0/33

In: 375.611 $\pm$ 0.095 χ^2 /NDF:1379463.6/17

Out: 363.798 $\pm$ 0.095 χ^2 /NDF:2461365.5/20

All: 369.698 $\pm$ 0.067 χ^2 /NDF: 3848595.7/38

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 13.1/17

Left In: 0.000+/-0.000 χ^2/NDF : 1.2/1

Left: -0.000+/-0.000 χ^2/NDF : 4.6/4

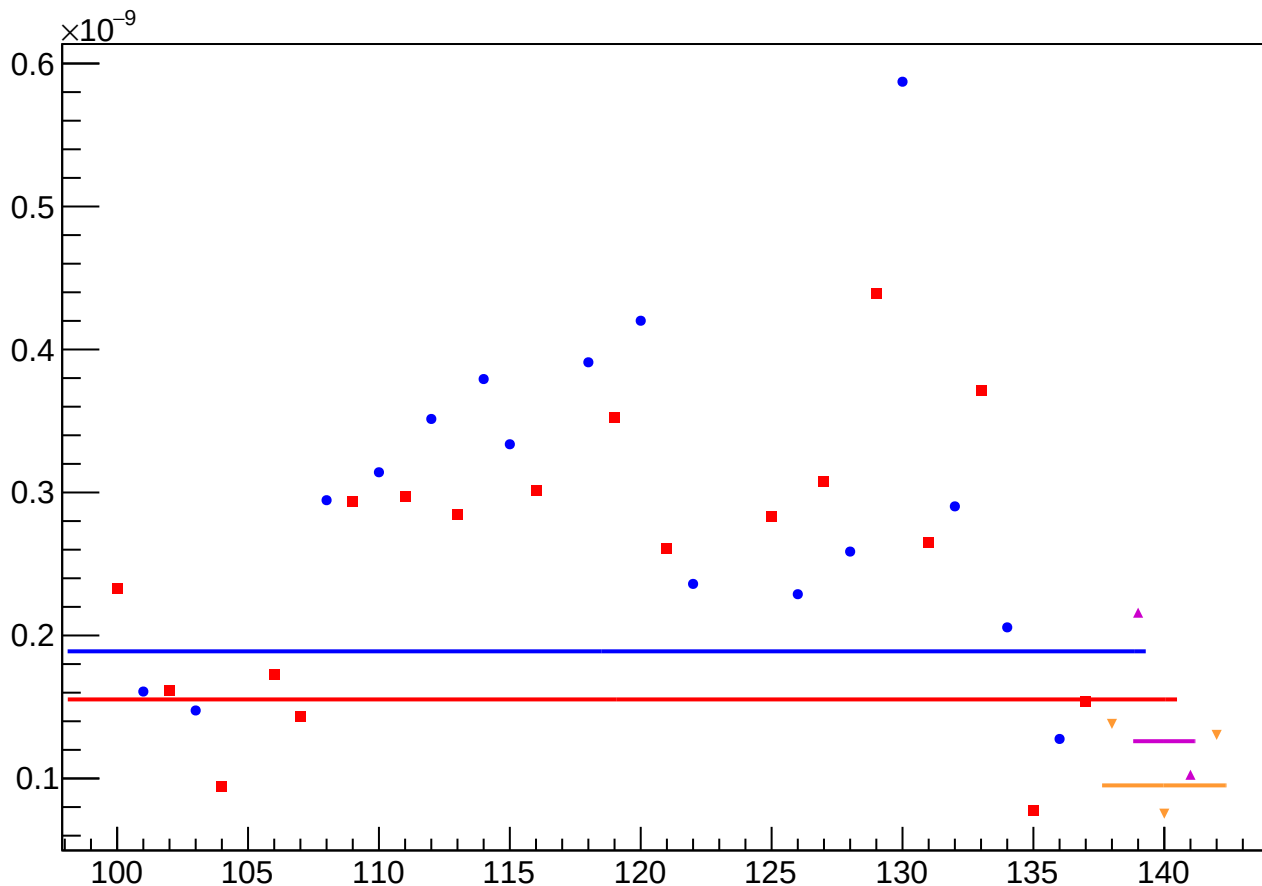
Right: 0.000+/-0.000 χ^2/NDF : 24.9/33

In: 0.000+/-0.000 χ^2/NDF : 13.2/17

Out: -0.000+/-0.000 χ^2/NDF : 16.0/20

All: 0.000+/-0.000 χ^2/NDF : 30.6/38

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1520620.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 220461.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2200687.6/17

Left In: 0.000+/-0.000 χ^2/NDF : 267922.7/1

Left: 0.000+/-0.000 χ^2/NDF : 571577.3/4

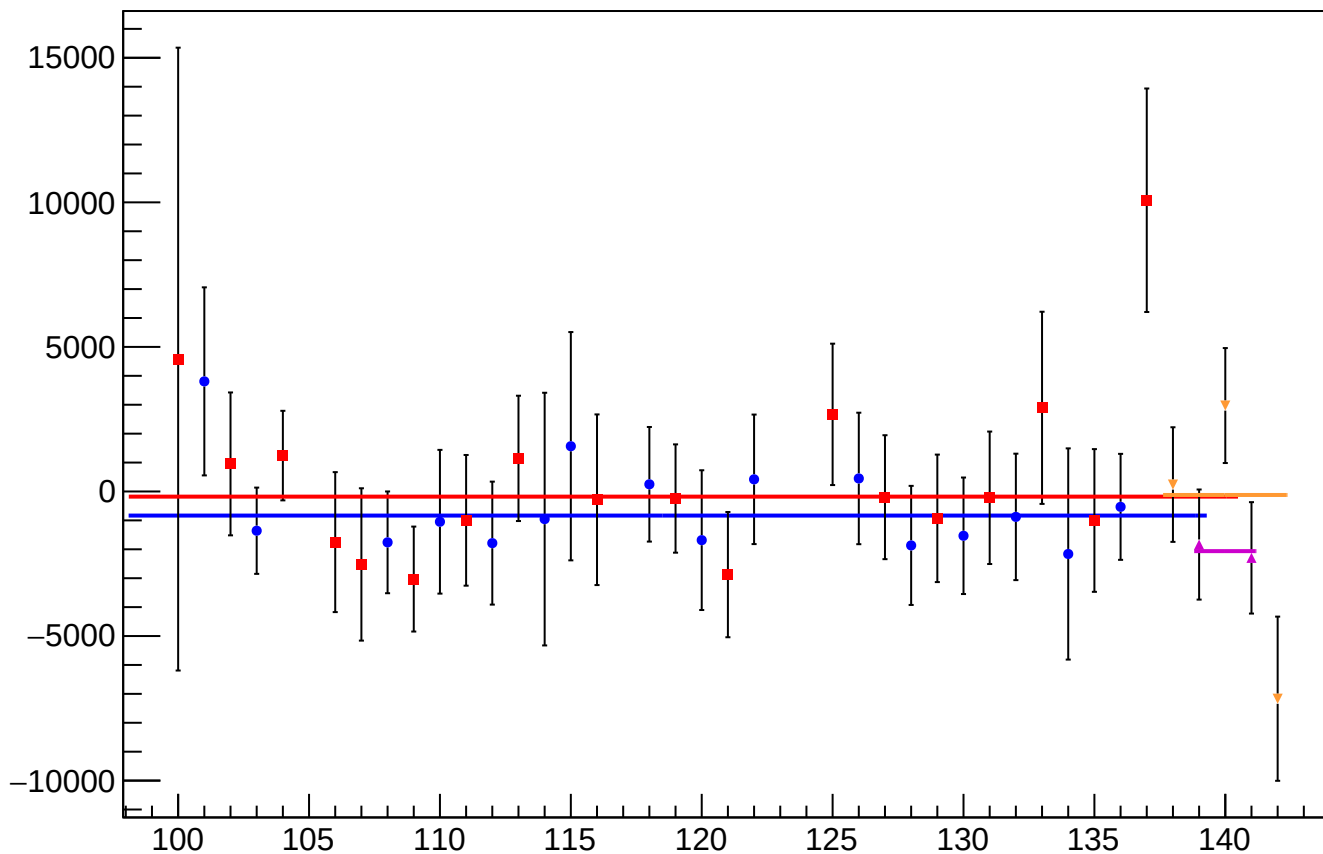
Right: 0.000+/-0.000 χ^2/NDF : 3857679.7/33

In: 0.000+/-0.000 χ^2/NDF : 2104142.2/17

Out: 0.000+/-0.000 χ^2/NDF : 2918915.6/20

All: 0.000+/-0.000 χ^2/NDF : 5370148.8/38

reg_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -833.479+/-554.833 χ^2/NDF : 4.6/15

Left Out: -120.970+/-1258.326 χ^2/NDF :8.6/2

Right Out: -178.292+/-547.824 χ^2/NDF : 16.5/17

Left In: -2063.278+/-1354.289 χ^2/NDF :0.0/1

Left: -1020.878+/-921.831 χ^2/NDF : 9.7/4

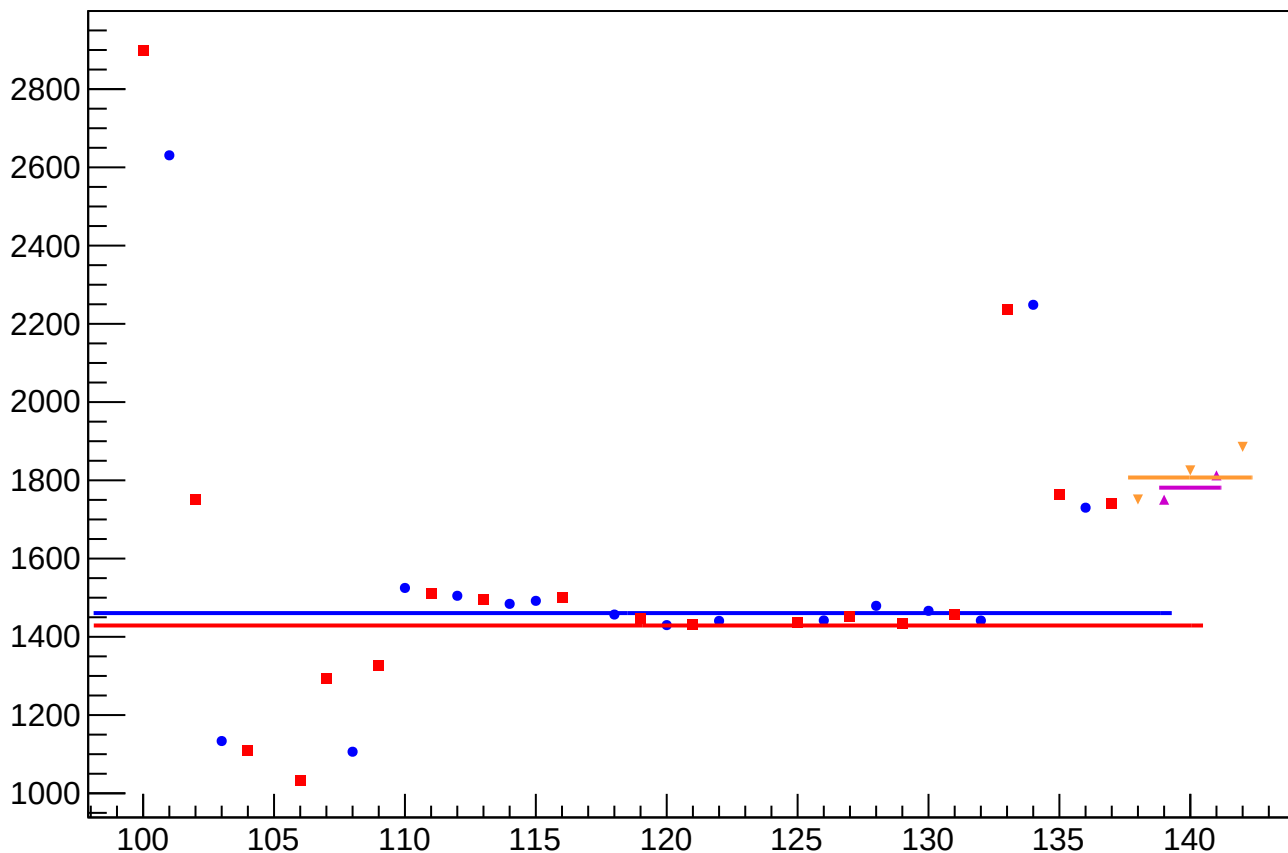
Right: -501.721+/-389.824 χ^2/NDF : 21.8/33

In: -1010.226+/-513.417 χ^2/NDF :5.3/17

Out: -169.159+/-502.287 χ^2/NDF :25.1/20

All: -580.477+/-359.041 χ^2/NDF : 31.8/38

reg_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1460.653+/-0.392 χ^2/NDF : 575736.1/15

Left Out: 1807.239+/-0.890 χ^2/NDF : 3298.9/2

Right Out: 1428.940+/-0.385 χ^2/NDF : 411275.6/17

Left In: 1781.237+/-0.958 χ^2/NDF : 1052.9/1

Left: 1795.192+/-0.652 χ^2/NDF : 4747.5/4

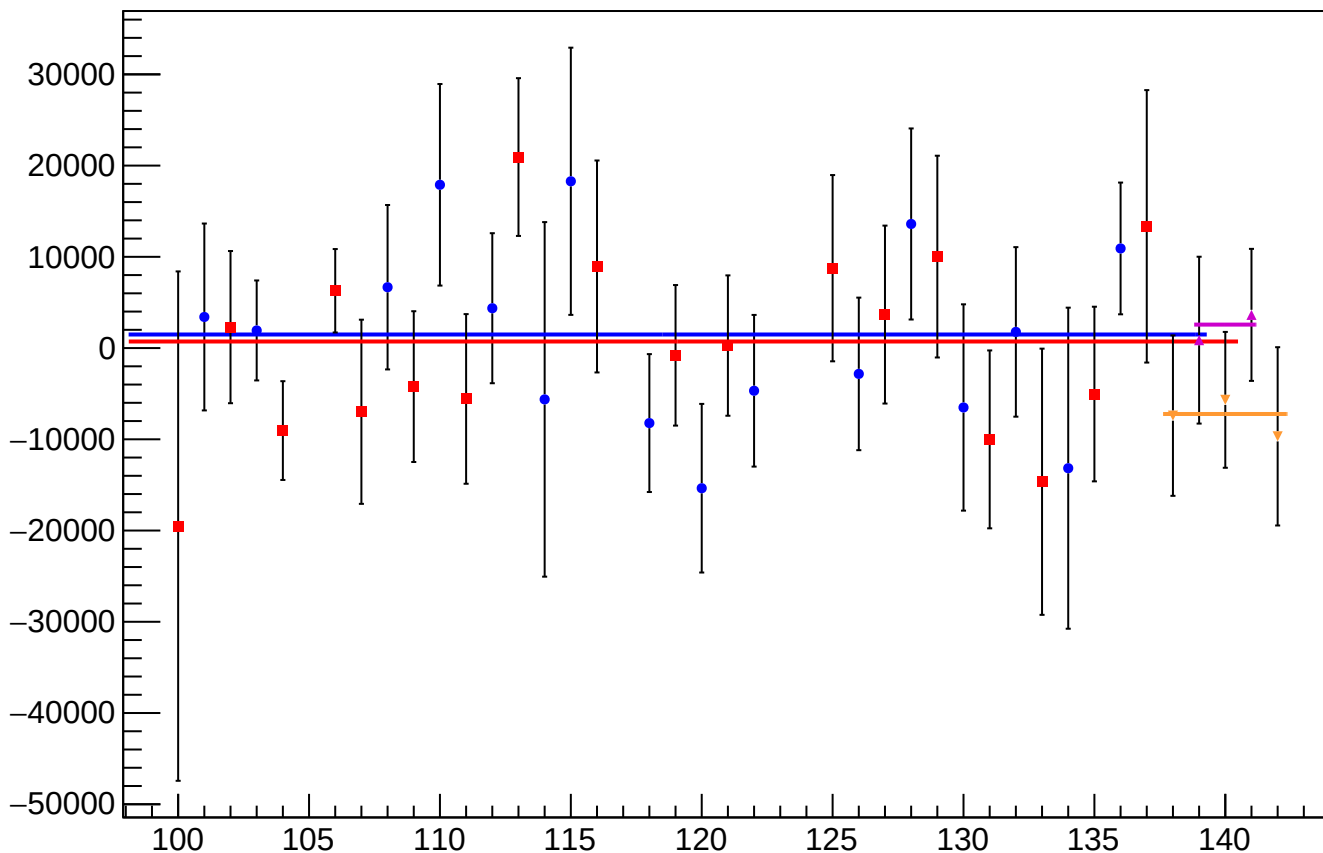
Right: 1444.478+/-0.275 χ^2/NDF : 990344.6/33

In: 1506.728+/-0.363 χ^2/NDF : 672752.1/17

Out: 1488.470+/-0.353 χ^2/NDF : 566893.8/20

All: 1497.342+/-0.253 χ^2/NDF : 1240946.1/38

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 1487.438+/-2268.028 χ^2/NDF : 14.2/15

Left Out: -7225.394+/-4911.844 χ^2/NDF : 0.1/2

Right Out: 720.166+/-2011.559 χ^2/NDF : 17.5/17

Left In: 2571.631+/-5673.761 χ^2/NDF : 0.1/1

Left: -3028.405+/-3713.580 χ^2/NDF : 1.9/4

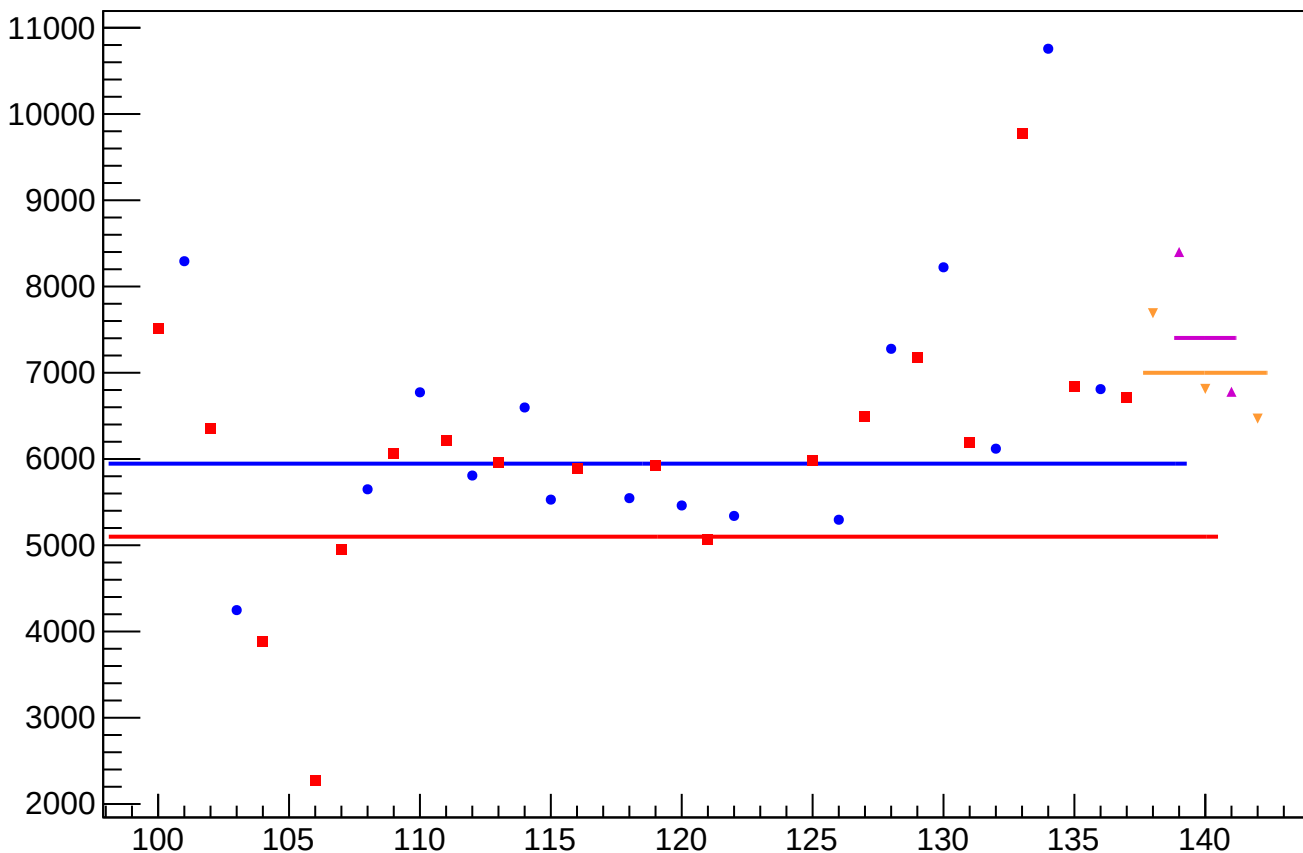
Right: 1057.985+/-1504.928 χ^2/NDF : 31.8/33

In: 1636.814+/-2106.000 χ^2/NDF : 14.3/17

Out: -421.038+/-1861.504 χ^2/NDF : 19.9/20

All: 481.553+/-1394.752 χ^2/NDF : 34.7/38

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 5946.080+/-1.604 χ^2/NDF : 641131.4/15

Left Out: 6999.598+/-3.473 χ^2/NDF : 19508.1/2

Right Out: 5099.375+/-1.422 χ^2/NDF : 1480367.2/17

Left In: 7403.613+/-4.012 χ^2/NDF : 38623.8/1

Left: 7172.676+/-2.626 χ^2/NDF : 63928.5/4

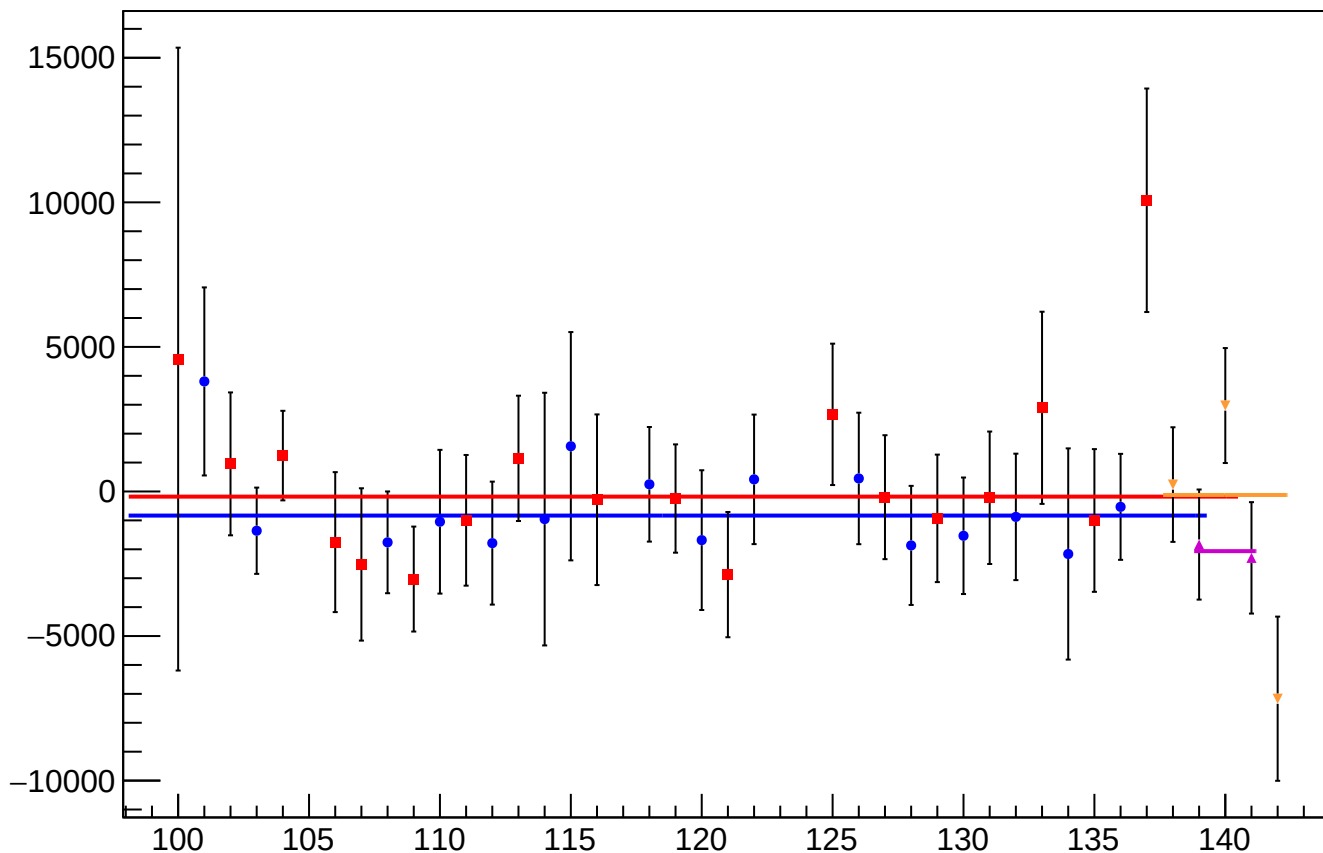
Right: 5472.167+/-1.064 χ^2/NDF : 2277512.7/33

In: 6146.893+/-1.489 χ^2/NDF : 793555.9/17

Out: 5372.300+/-1.316 χ^2/NDF : 1756213.3/20

All: 5712.043+/-0.986 χ^2/NDF : 2701658.4/38

cor_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -833.542+/-554.833 χ^2/NDF : 4.6/15

Left Out: -121.010+/-1258.326 χ^2/NDF :8.6/2

Right Out: -178.133+/-547.824 χ^2/NDF : 16.5/17

Left In: -2063.243+/-1354.289 χ^2/NDF :0.0/1

Left: -1020.883+/-921.831 χ^2/NDF : 9.7/4

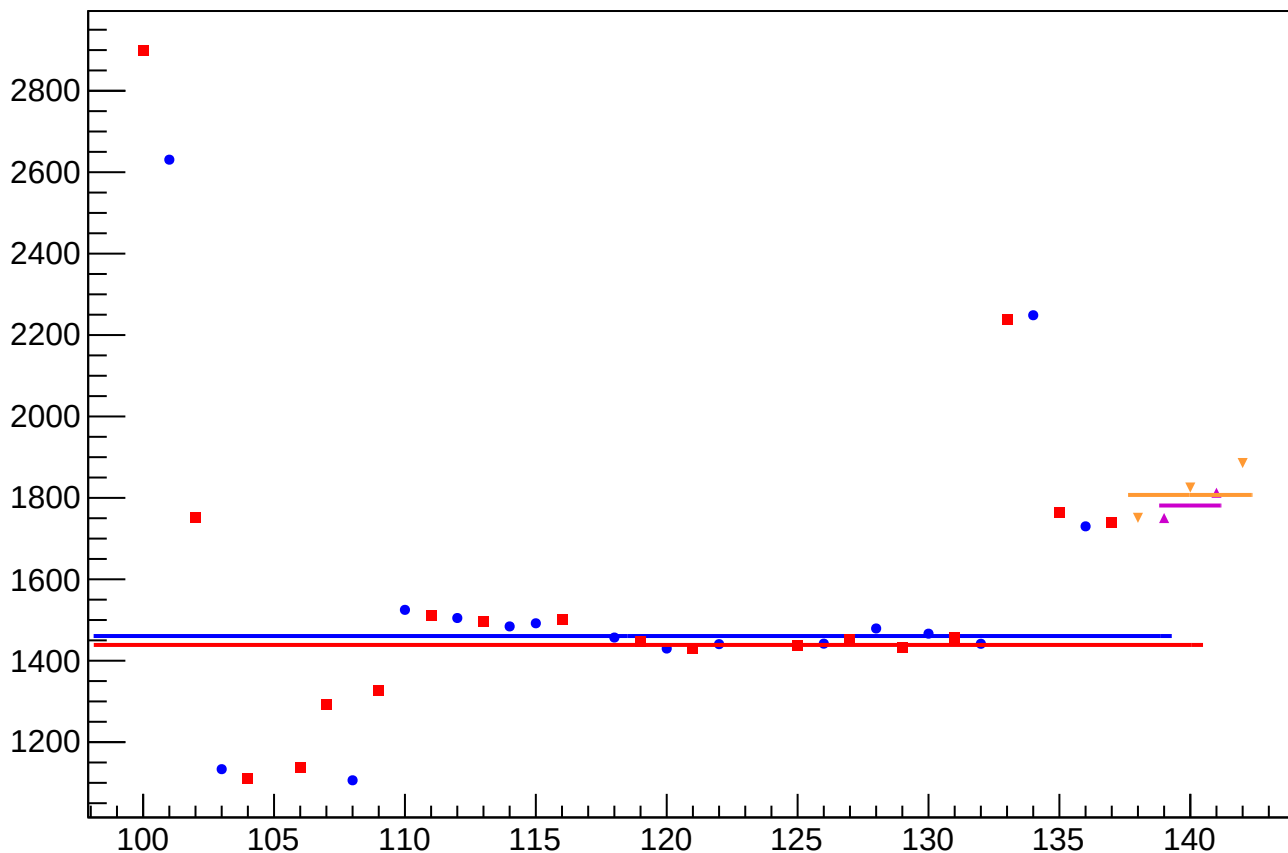
Right: -501.671+/-389.824 χ^2/NDF : 21.8/33

In: -1010.275+/-513.417 χ^2/NDF :5.3/17

Out: -169.031+/-502.287 χ^2/NDF :25.1/20

All: -580.435+/-359.041 χ^2/NDF : 31.8/38

cor_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1460.653 $\pm$ 0.392 χ^2 /NDF: 575736.3/15

Left Out: 1807.239 $\pm$ 0.890 χ^2 /NDF:3298.9/2

Right Out: 1438.764 $\pm$ 0.386 χ^2 /NDF: 373375.6/17

Left In: 1781.237 $\pm$ 0.958 χ^2 /NDF:1052.9/1

Left: 1795.192 $\pm$ 0.652 χ^2 /NDF: 4747.5/4

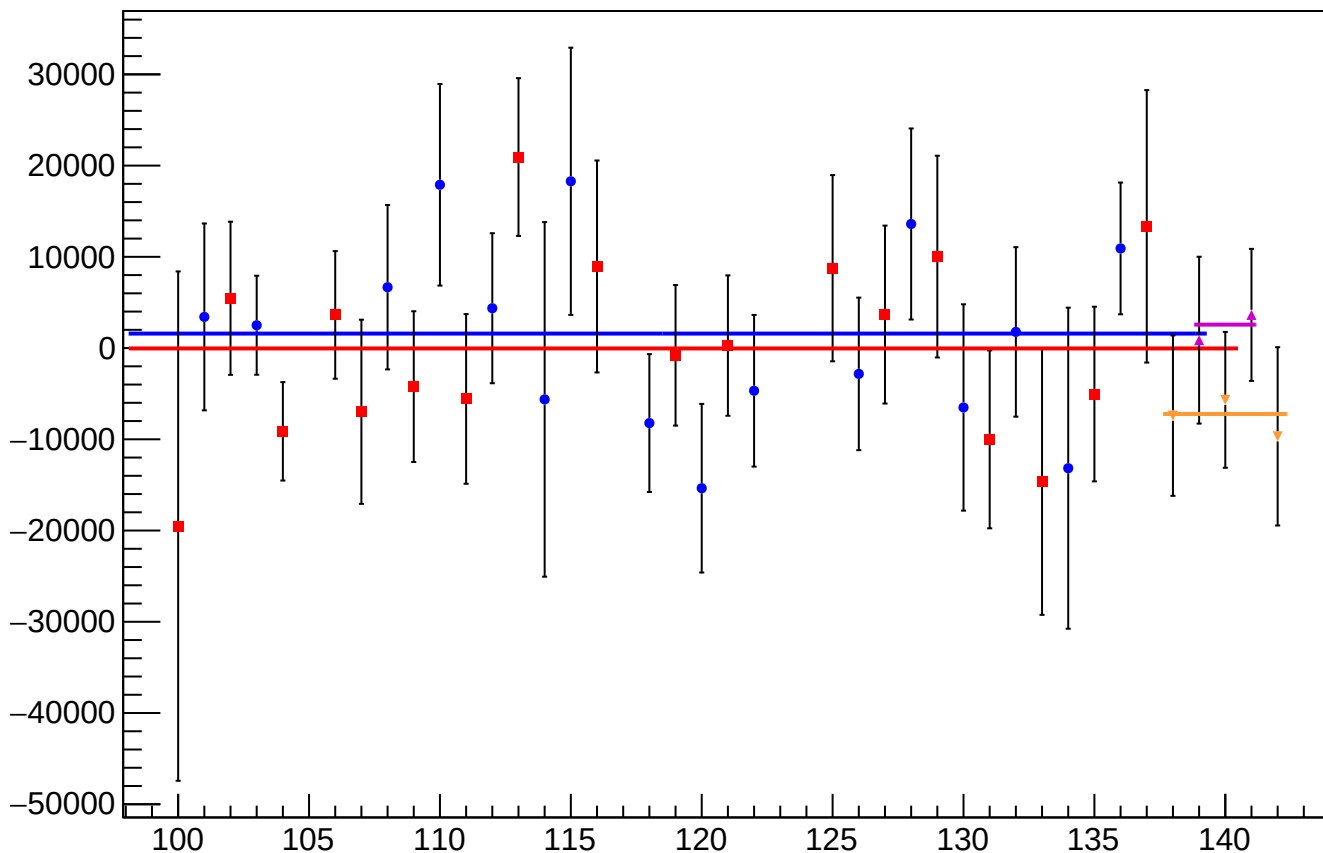
Right: 1449.544 $\pm$ 0.275 χ^2 /NDF: 950691.7/33

In: 1506.728 $\pm$ 0.363 χ^2 /NDF:672752.5/17

Out: 1497.250 $\pm$ 0.354 χ^2 /NDF:520951.8/20

All: 1501.876 $\pm$ 0.254 χ^2 /NDF: 1194053.2/38

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 1588.655 $\pm$ 2264.260 χ^2 /NDF: 14.2/15

Left Out: -7225.469 $\pm$ 4911.839 χ^2 /NDF:0.1/2

Right Out: -40.643 $\pm$ 2133.039 χ^2 /NDF: 16.5/17

Left In: 2571.690 $\pm$ 5673.758 χ^2 /NDF:0.1/1

Left: -3028.425 $\pm$ 3713.578 χ^2 /NDF: 1.9/4

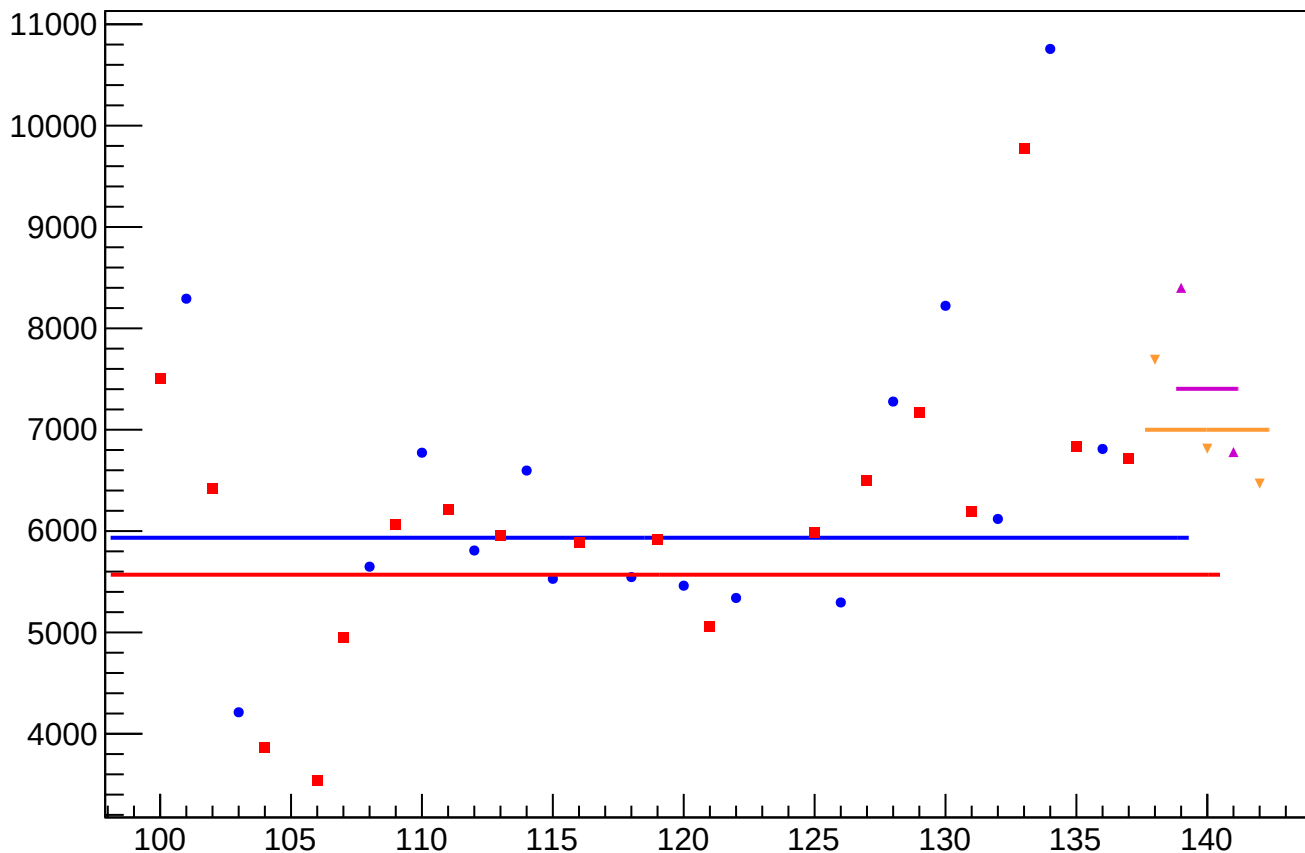
Right: 725.429 $\pm$ 1552.604 χ^2 /NDF: 30.9/33

In: 1723.706 $\pm$ 2102.982 χ^2 /NDF:14.3/17

Out: -1180.617 $\pm$ 1956.516 χ^2 /NDF:18.4/20

All: 166.893 $\pm$ 1432.449 χ^2 /NDF: 33.7/38

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 5934.209+/-1.601 χ^2/NDF : 653082.9/15

Left Out: 6999.591+/-3.473 χ^2/NDF : 19507.8/2

Right Out: 5569.606+/-1.508 χ^2/NDF : 724048.8/17

Left In: 7403.610+/-4.012 χ^2/NDF : 38623.4/1

Left: 7172.670+/-2.626 χ^2/NDF : 63928.0/4

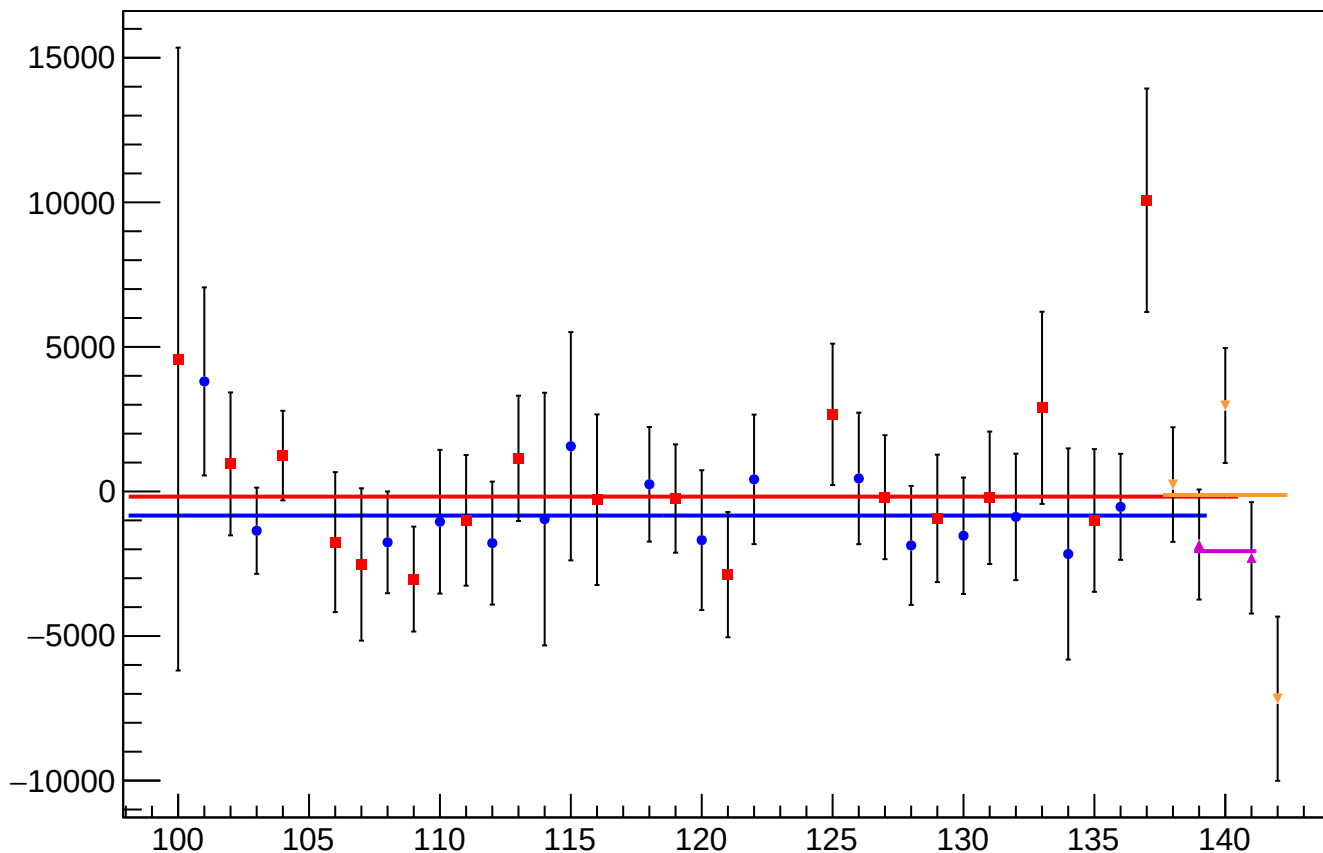
Right: 5741.037+/-1.098 χ^2/NDF : 1404606.9/33

In: 6136.078+/-1.487 χ^2/NDF : 807420.8/17

Out: 5796.493+/-1.383 χ^2/NDF : 886174.5/20

All: 5954.049+/-1.013 χ^2/NDF : 1721549.4/38

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -833.542 ± 554.833 χ^2/NDF : 4.6/15

Left Out: -121.010 ± 1258.326 χ^2/NDF : 8.6/2

Right Out: -178.133 ± 547.824 χ^2/NDF : 16.5/17

Left In: -2063.243 ± 1354.289 χ^2/NDF : 0.0/1

Left: -1020.883 ± 921.831 χ^2/NDF : 9.7/4

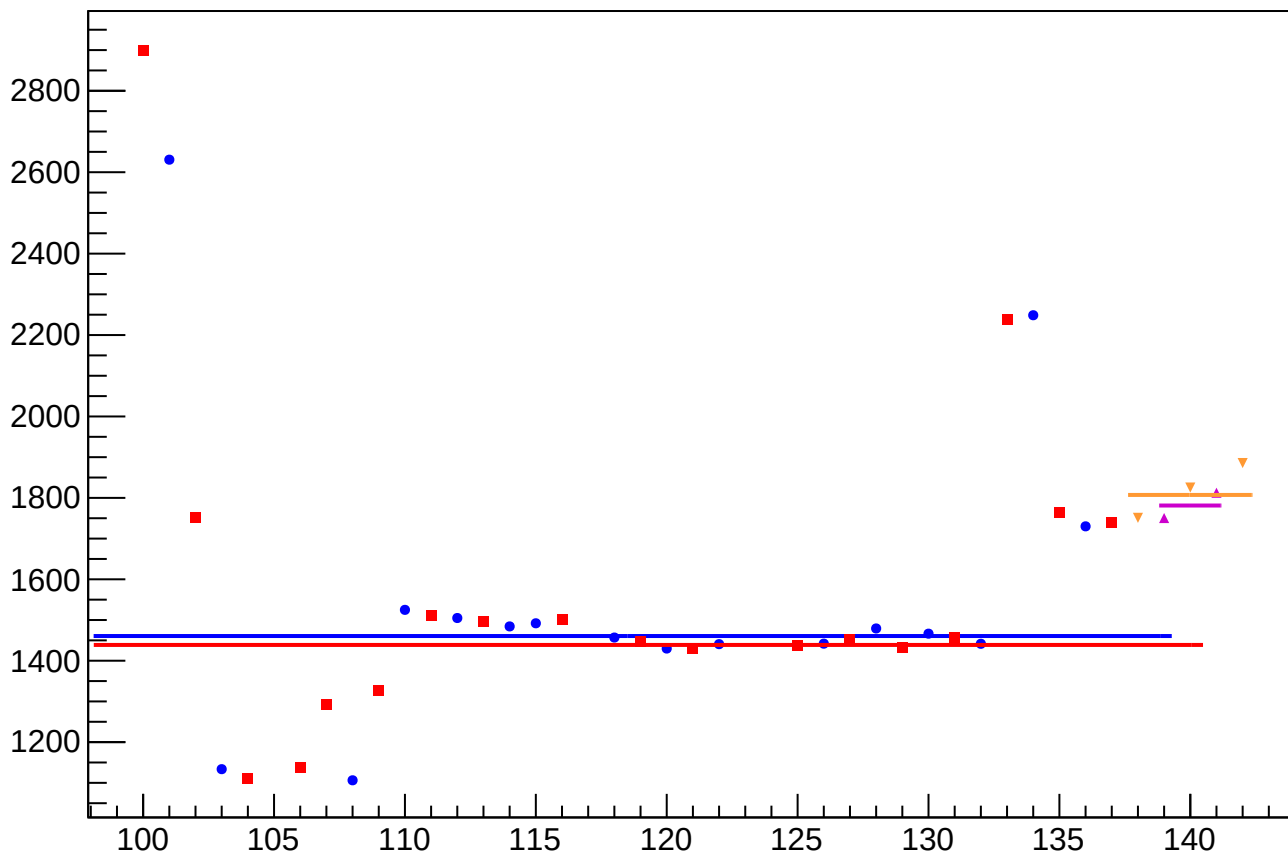
Right: -501.671 ± 389.824 χ^2/NDF : 21.8/33

In: -1010.275 ± 513.417 χ^2/NDF : 5.3/17

Out: -169.031 ± 502.287 χ^2/NDF : 25.1/20

All: -580.435 ± 359.041 χ^2/NDF : 31.8/38

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1460.653+/-0.392 χ^2/NDF : 575736.3/15

Left Out: 1807.239+/-0.890 χ^2/NDF : 3298.9/2

Right Out: 1438.764+/-0.386 χ^2/NDF : 373375.6/17

Left In: 1781.237+/-0.958 χ^2/NDF : 1052.9/1

Left: 1795.192+/-0.652 χ^2/NDF : 4747.5/4

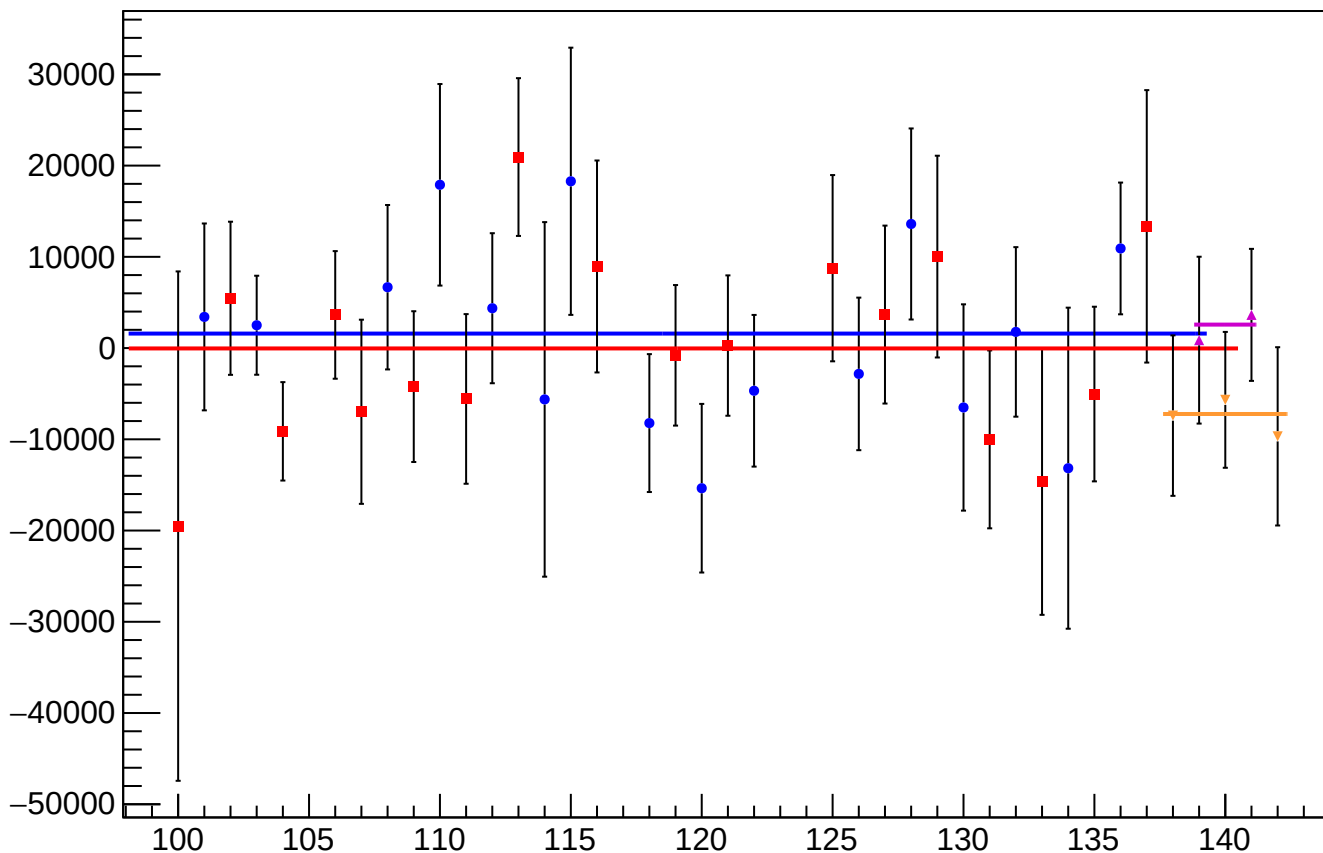
Right: 1449.544+/-0.275 χ^2/NDF : 950691.7/33

In: 1506.728+/-0.363 χ^2/NDF : 672752.5/17

Out: 1497.250+/-0.354 χ^2/NDF : 520951.8/20

All: 1501.876+/-0.254 χ^2/NDF : 1194053.2/38

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 1588.655 $\pm$ 2264.260 χ^2 /NDF: 14.2/15

Left Out: -7225.469 $\pm$ 4911.839 χ^2 /NDF:0.1/2

Right Out: -40.643 $\pm$ 2133.039 χ^2 /NDF: 16.5/17

Left In: 2571.690 $\pm$ 5673.758 χ^2 /NDF:0.1/1

Left: -3028.425 $\pm$ 3713.578 χ^2 /NDF: 1.9/4

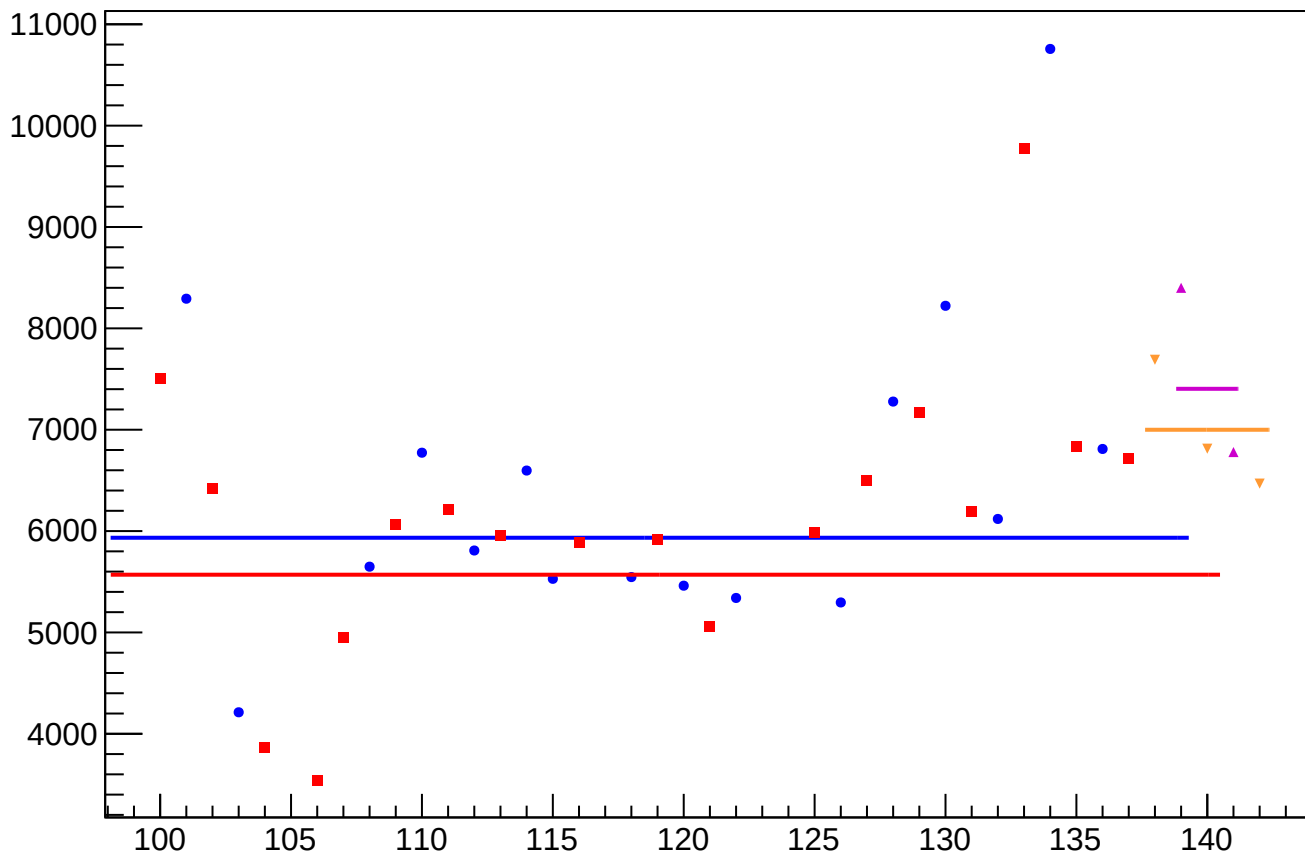
Right: 725.429 $\pm$ 1552.604 χ^2 /NDF: 30.9/33

In: 1723.706 $\pm$ 2102.982 χ^2 /NDF:14.3/17

Out: -1180.617 $\pm$ 1956.516 χ^2 /NDF:18.4/20

All: 166.893 $\pm$ 1432.449 χ^2 /NDF: 33.7/38

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 5934.209+/-1.601 χ^2/NDF : 653082.9/15

Left Out: 6999.591+/-3.473 χ^2/NDF : 19507.8/2

Right Out: 5569.606+/-1.508 χ^2/NDF : 724048.8/17

Left In: 7403.610+/-4.012 χ^2/NDF : 38623.4/1

Left: 7172.670+/-2.626 χ^2/NDF : 63928.0/4

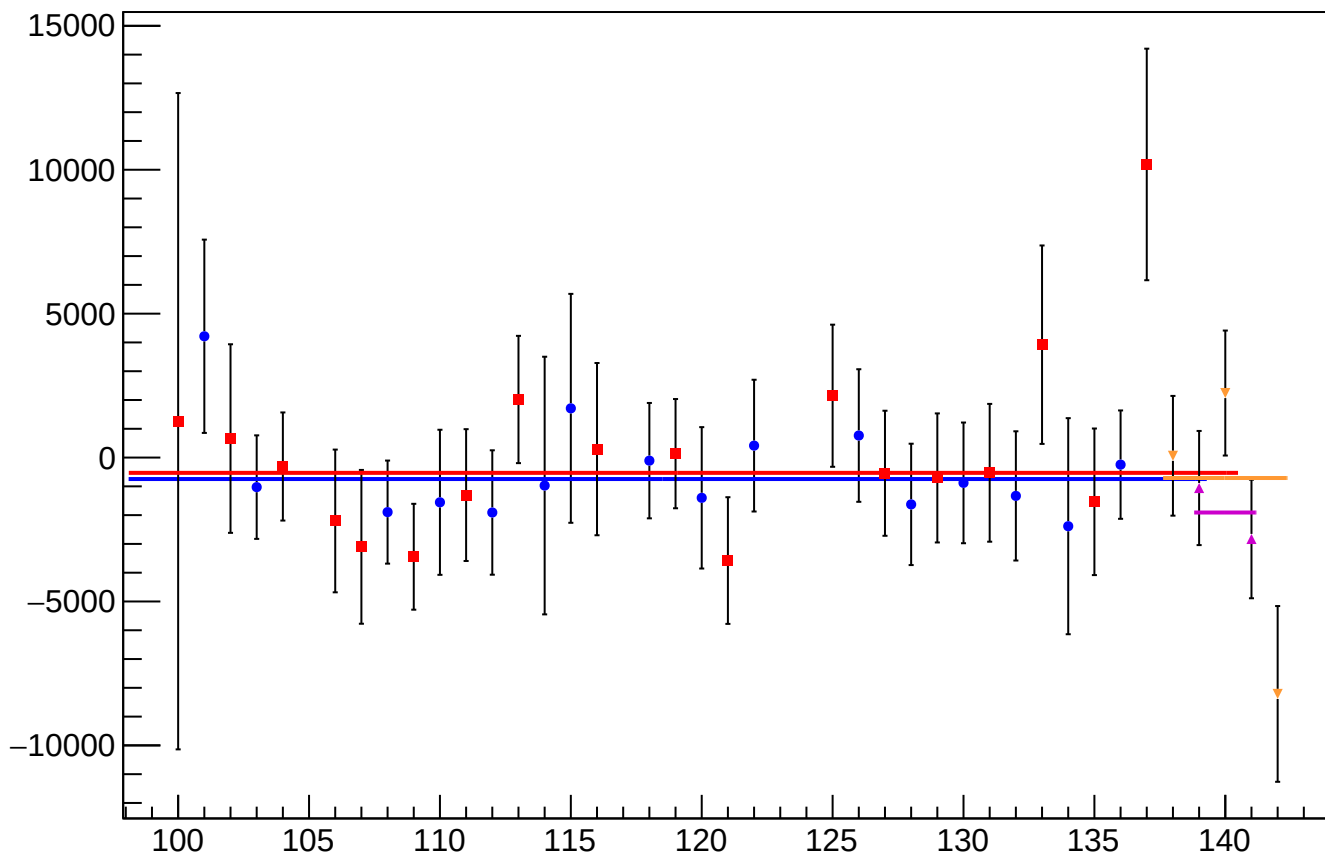
Right: 5741.037+/-1.098 χ^2/NDF : 1404606.9/33

In: 6136.078+/-1.487 χ^2/NDF : 807420.8/17

Out: 5796.493+/-1.383 χ^2/NDF : 886174.5/20

All: 5954.049+/-1.013 χ^2/NDF : 1721549.4/38

dit_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -745.914 $\pm$ 578.071 χ^2 /NDF: 4.8/15

Left Out: -710.265 $\pm$ 1347.722 χ^2 /NDF:8.0/2

Right Out: -531.292 $\pm$ 575.115 χ^2 /NDF: 17.7/17

Left In: -1909.047 $\pm$ 1428.797 χ^2 /NDF:0.4/1

Left: -1274.681 $\pm$ 980.393 χ^2 /NDF: 8.8/4

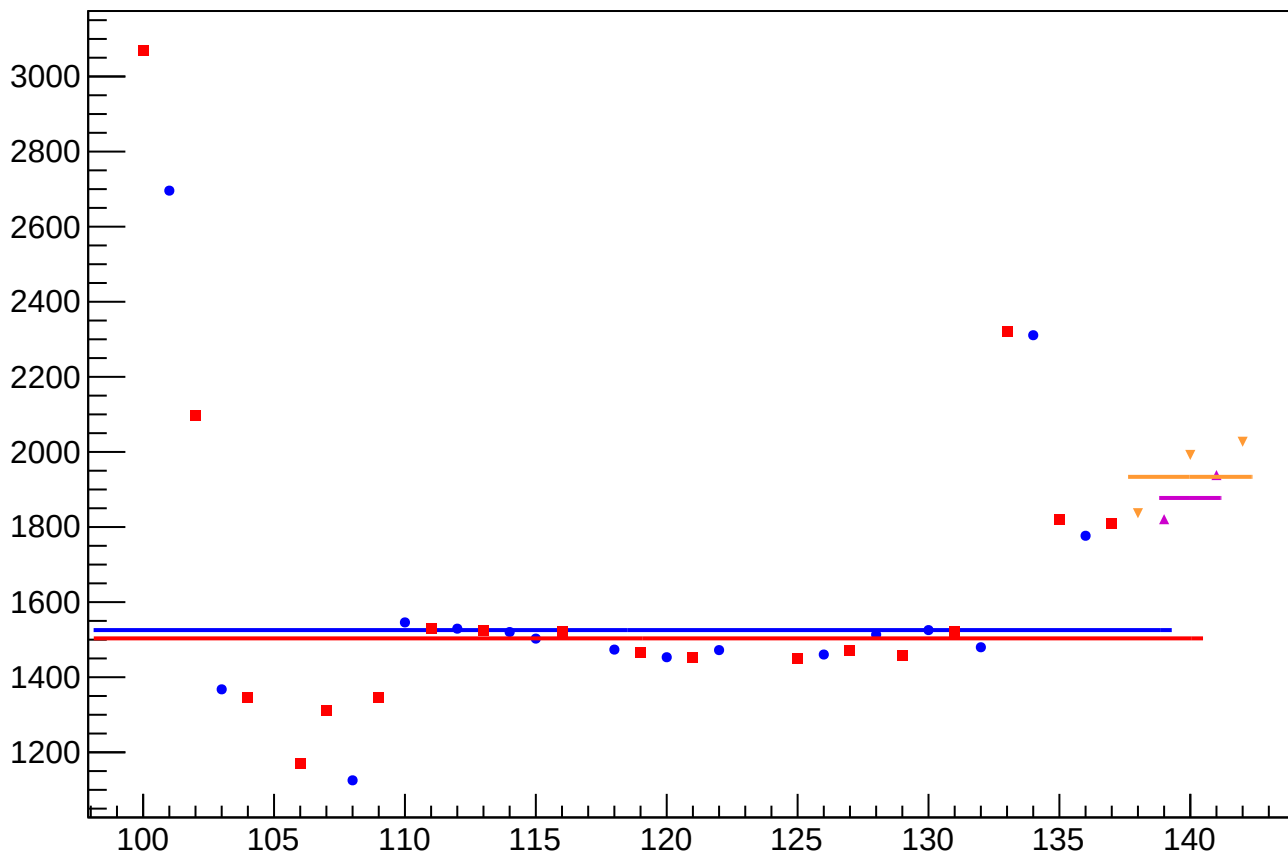
Right: -638.053 $\pm$ 407.709 χ^2 /NDF: 22.6/33

In: -909.525 $\pm$ 535.874 χ^2 /NDF:5.7/17

Out: -558.863 $\pm$ 528.966 χ^2 /NDF:25.8/20

All: -731.919 $\pm$ 376.454 χ^2 /NDF: 31.7/38

dit_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1525.536+/-0.409 χ^2/NDF : 488328.2/15

Left Out: 1933.688+/-0.953 χ^2/NDF : 7657.2/2

Right Out: 1503.434+/-0.407 χ^2/NDF : 338507.3/17

Left In: 1877.432+/-1.010 χ^2/NDF : 3378.3/1

Left: 1907.201+/-0.693 χ^2/NDF : 12676.2/4

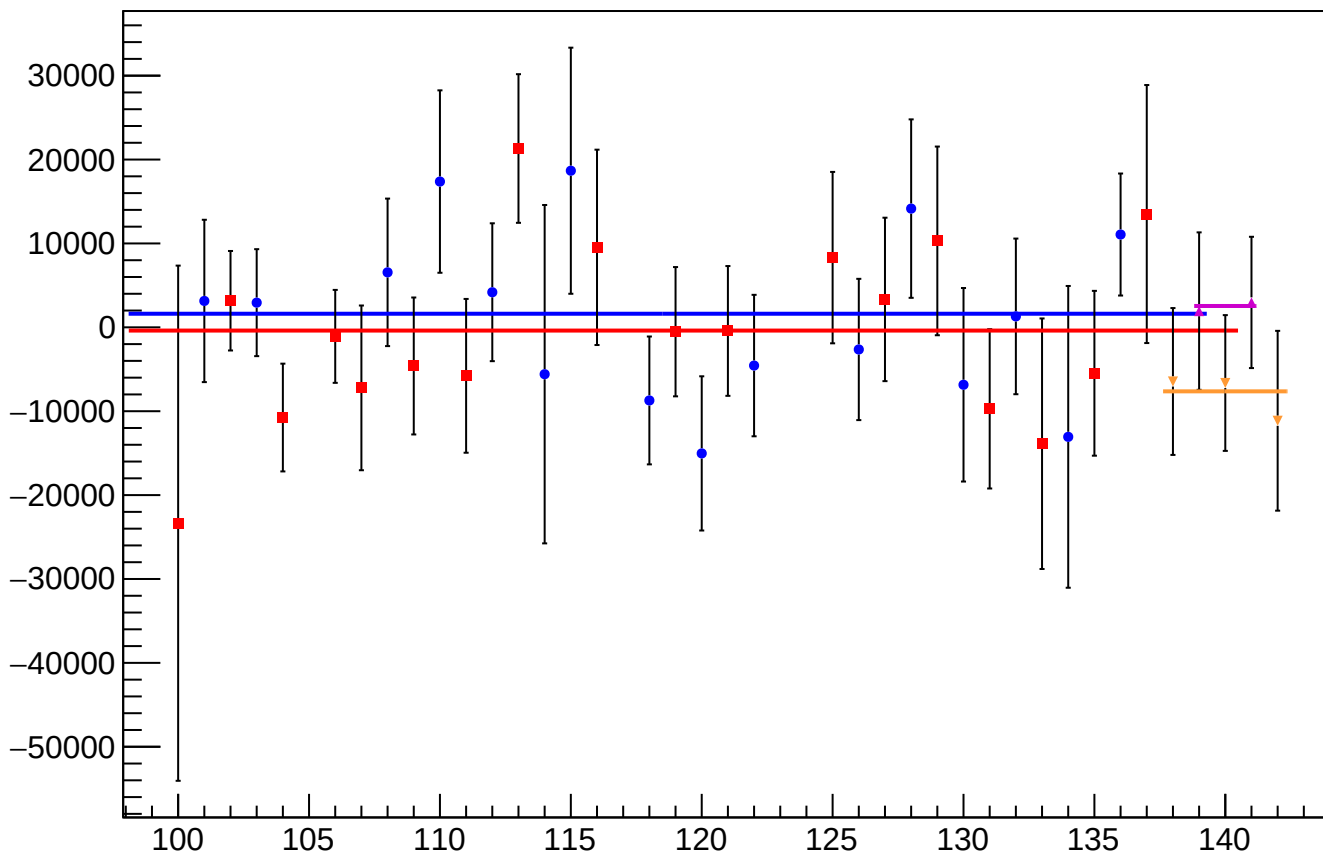
Right: 1514.425+/-0.288 χ^2/NDF : 828305.2/33

In: 1575.035+/-0.379 χ^2/NDF : 595957.8/17

Out: 1569.681+/-0.374 χ^2/NDF : 518614.5/20

All: 1572.323+/-0.266 χ^2/NDF : 1114673.5/38

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1620.058 $\pm$ 2320.032 χ^2 /NDF: 14.3/15

Left Out: -7631.774 $\pm$ 5196.844 χ^2 /NDF:0.1/2

Right Out: -385.942 $\pm$ 2060.867 χ^2 /NDF: 16.0/17

Left In: 2544.088 $\pm$ 6010.067 χ^2 /NDF:0.0/1

Left: -3278.381 $\pm$ 3931.042 χ^2 /NDF: 1.8/4

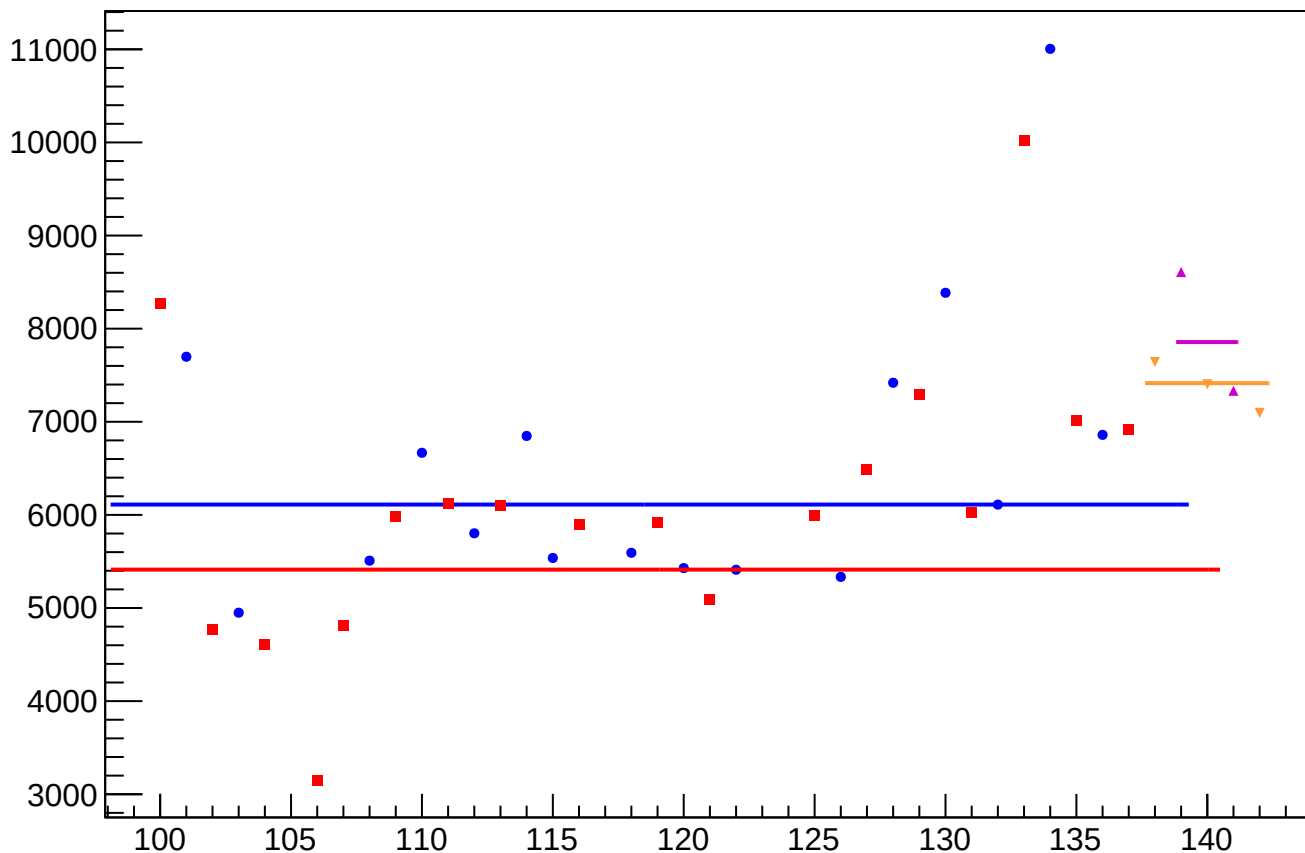
Right: 498.801 $\pm$ 1540.768 χ^2 /NDF: 30.7/33

In: 1739.894 $\pm$ 2164.368 χ^2 /NDF:14.3/17

Out: -1370.583 $\pm$ 1915.731 χ^2 /NDF:17.8/20

All: -4.193 $\pm$ 1434.515 χ^2 /NDF: 33.3/38

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 6111.037+/-1.641 χ^2/NDF : 471661.4/15

Left Out: 7414.817+/-3.675 χ^2/NDF : 3121.0/2

Right Out: 5412.276+/-1.457 χ^2/NDF : 821530.3/17

Left In: 7856.054+/-4.250 χ^2/NDF : 21792.4/1

Left: 7603.585+/-2.780 χ^2/NDF : 31081.6/4

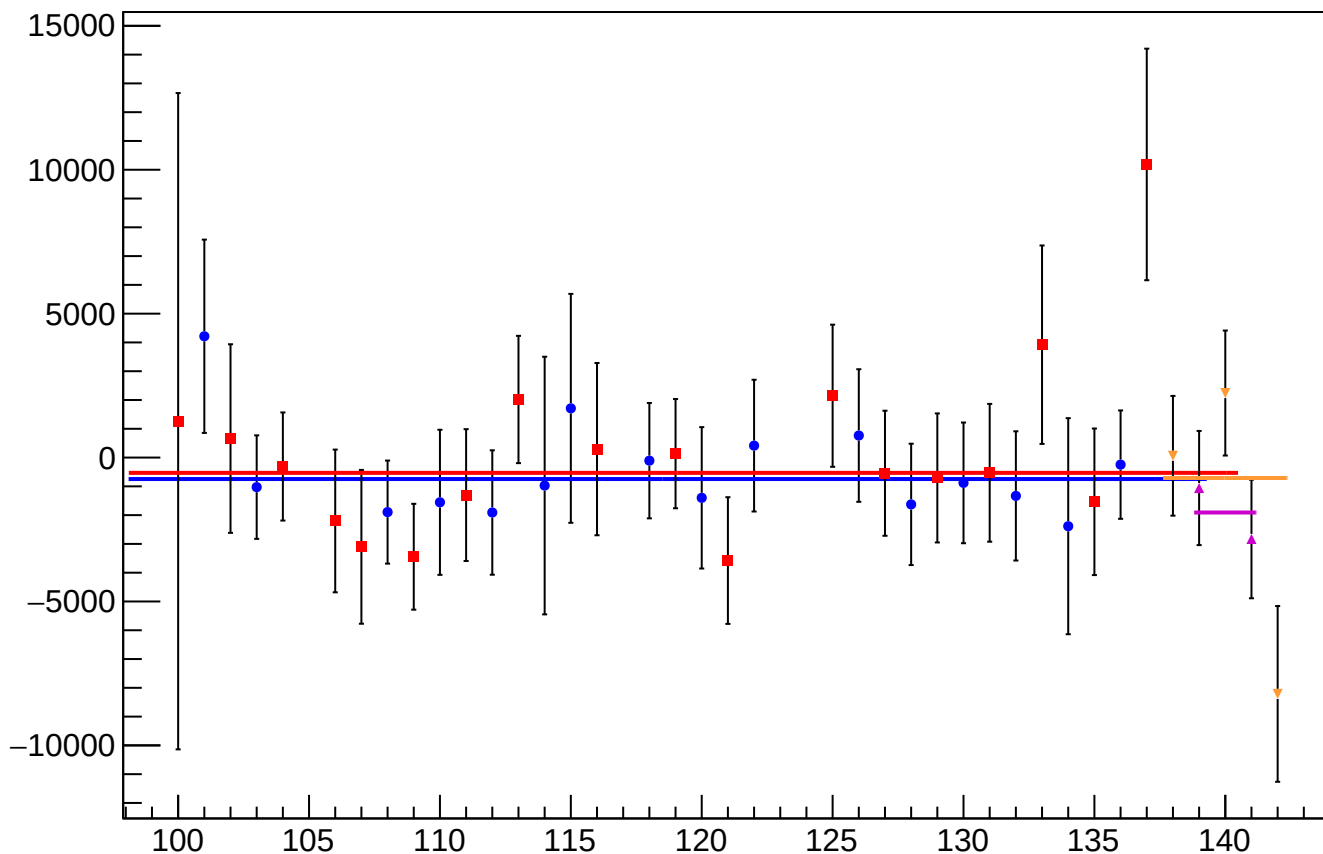
Right: 5720.463+/-1.089 χ^2/NDF : 1394599.9/33

In: 6337.347+/-1.530 χ^2/NDF : 640192.8/17

Out: 5684.402+/-1.355 χ^2/NDF : 1081266.4/20

All: 5971.232+/-1.014 χ^2/NDF : 1823520.5/38

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -745.918+/-578.071 χ^2/NDF : 4.8/15

Left Out: -710.282+/-1347.724 χ^2/NDF : 8.0/2

Right Out: -531.302+/-575.115 χ^2/NDF : 17.7/17

Left In: -1909.027+/-1428.798 χ^2/NDF : 0.4/1

Left: -1274.680+/-980.394 χ^2/NDF : 8.8/4

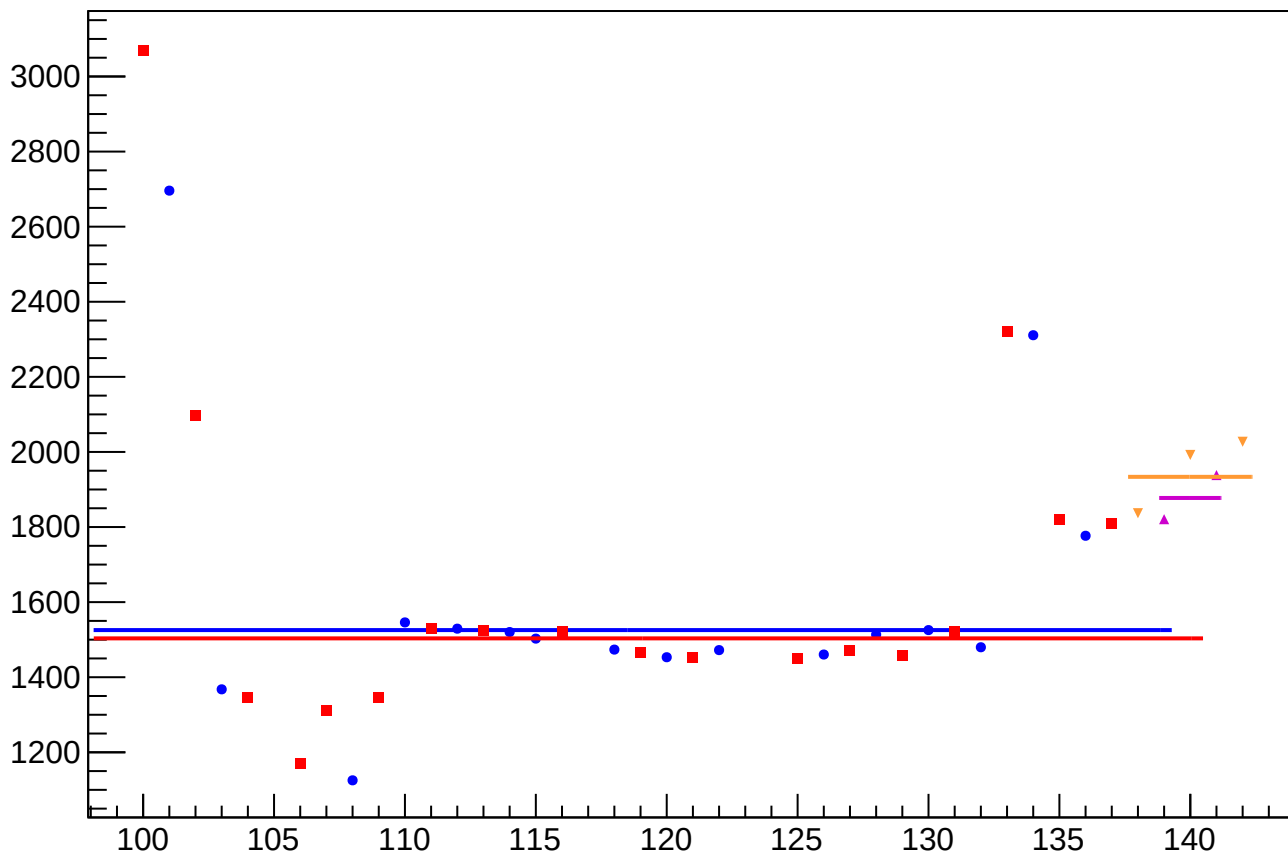
Right: -638.060+/-407.709 χ^2/NDF : 22.6/33

In: -909.526+/-535.874 χ^2/NDF : 5.7/17

Out: -558.874+/-528.966 χ^2/NDF : 25.8/20

All: -731.925+/-376.454 χ^2/NDF : 31.7/38

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1525.536 $\pm$ 0.409 χ^2 /NDF: 488327.8/15

Left Out: 1933.690 $\pm$ 0.953 χ^2 /NDF: 7657.3/2

Right Out: 1503.435 $\pm$ 0.407 χ^2 /NDF: 338507.7/17

Left In: 1877.434 $\pm$ 1.010 χ^2 /NDF: 3378.1/1

Left: 1907.203 $\pm$ 0.693 χ^2 /NDF: 12676.1/4

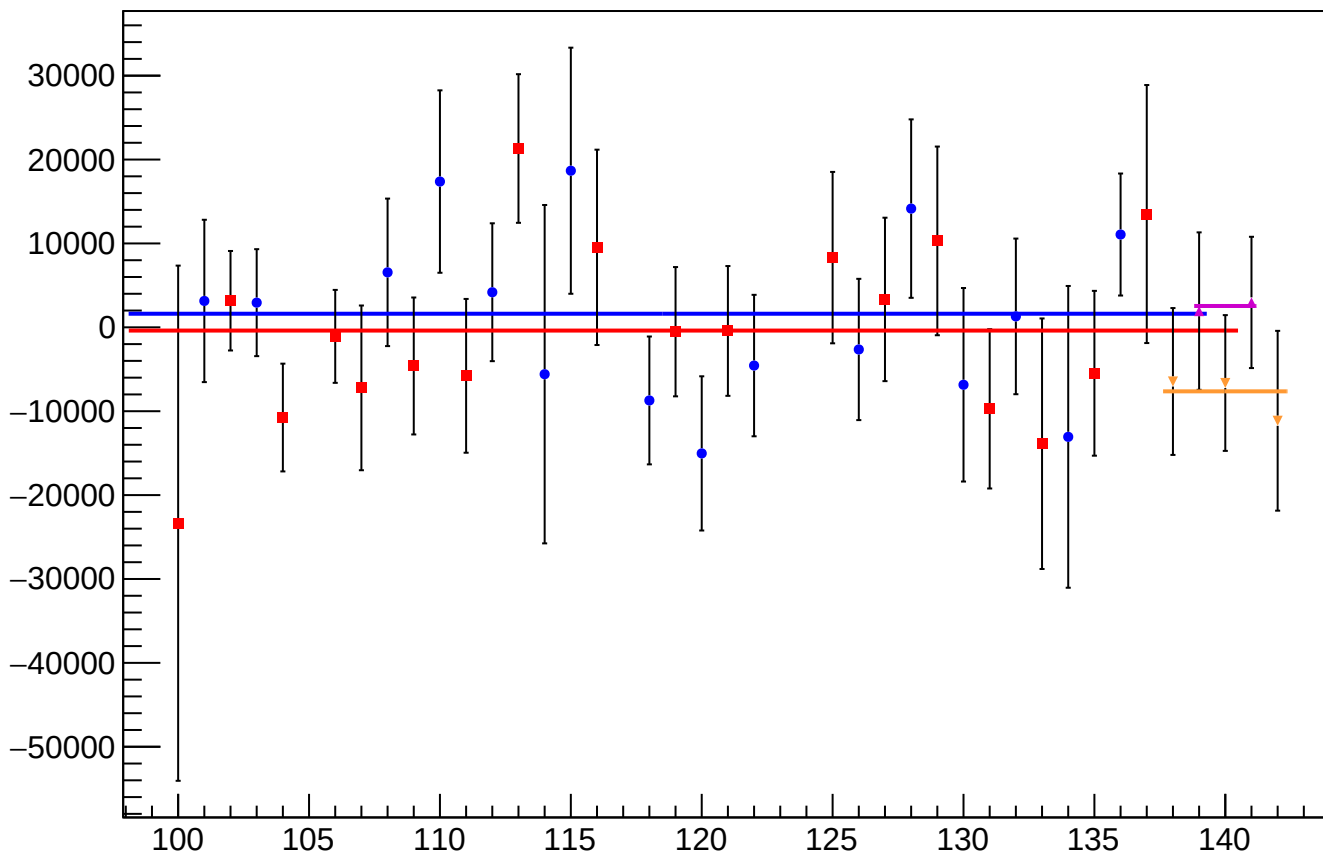
Right: 1514.425 $\pm$ 0.288 χ^2 /NDF: 828305.2/33

In: 1575.035 $\pm$ 0.379 χ^2 /NDF: 595958.2/17

Out: 1569.682 $\pm$ 0.374 χ^2 /NDF: 518615.9/20

All: 1572.323 $\pm$ 0.266 χ^2 /NDF: 1114675.2/38

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1620.038 $\pm$ 2320.027 χ^2 /NDF: 14.3/15

Left Out: -7631.802 $\pm$ 5196.852 χ^2 /NDF:0.1/2

Right Out: -385.948 $\pm$ 2060.863 χ^2 /NDF: 16.0/17

Left In: 2544.108 $\pm$ 6010.075 χ^2 /NDF:0.0/1

Left: -3278.387 $\pm$ 3931.047 χ^2 /NDF: 1.8/4

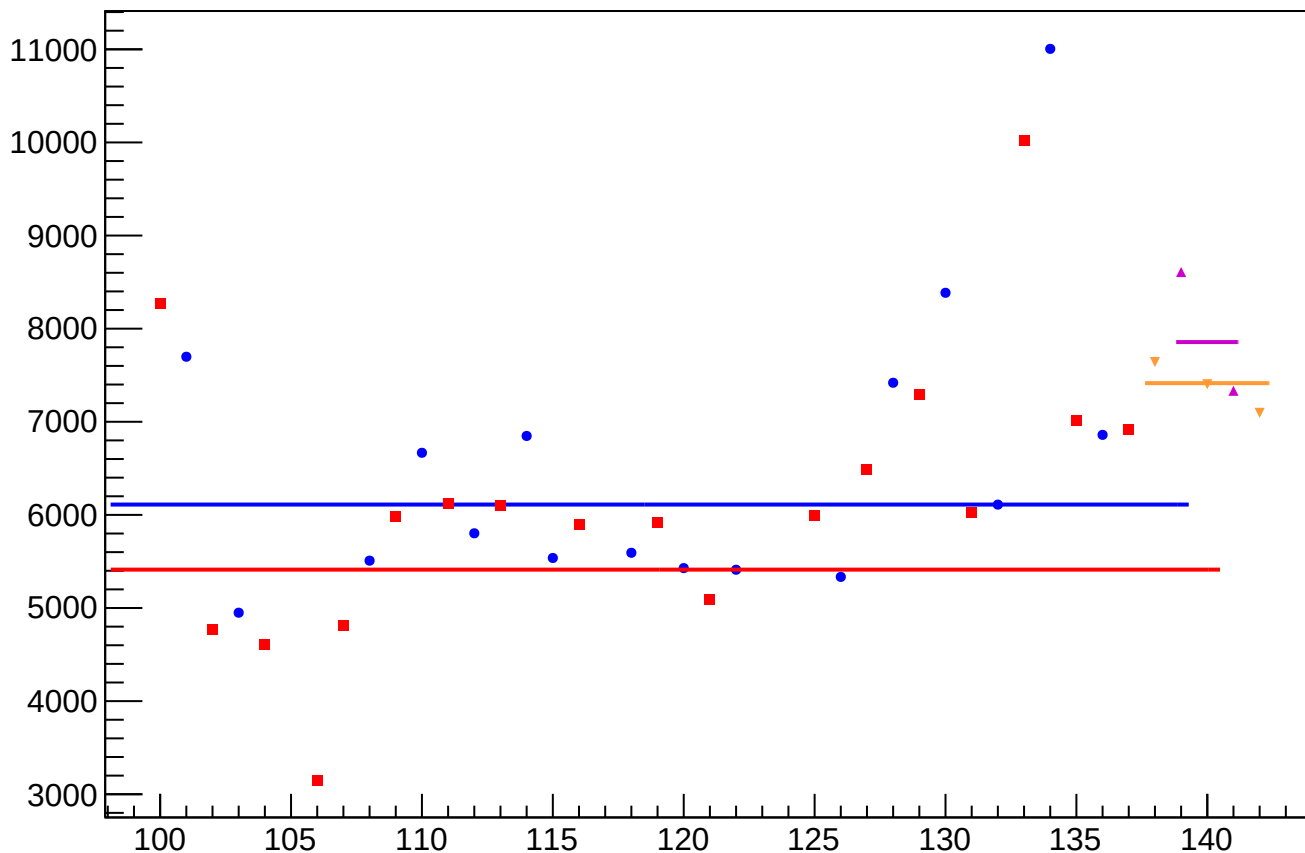
Right: 498.789 $\pm$ 1540.764 χ^2 /NDF: 30.7/33

In: 1739.879 $\pm$ 2164.365 χ^2 /NDF:14.3/17

Out: -1370.586 $\pm$ 1915.728 χ^2 /NDF:17.8/20

All: -4.201 $\pm$ 1434.512 χ^2 /NDF: 33.3/38

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 6111.023 $\pm$ 1.641 χ^2/NDF : 471663.6/15

Left Out: 7414.828 $\pm$ 3.675 χ^2/NDF : 3121.1/2

Right Out: 5412.265 $\pm$ 1.457 χ^2/NDF : 821530.5/17

Left In: 7856.065 $\pm$ 4.250 χ^2/NDF : 21793.0/1

Left: 7603.596 $\pm$ 2.780 χ^2/NDF : 31082.2/4

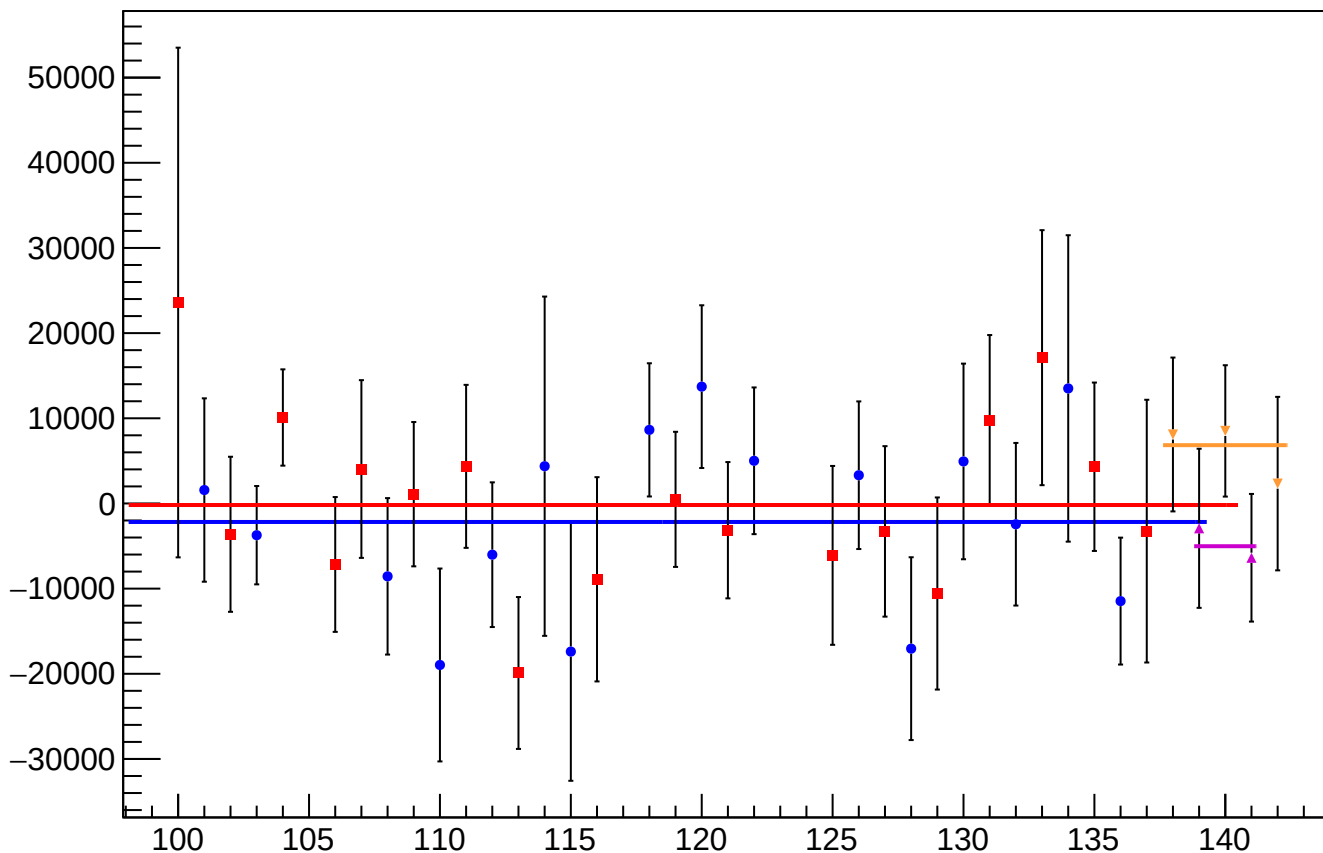
Right: 5720.451 $\pm$ 1.089 χ^2/NDF : 1394602.1/33

In: 6337.335 $\pm$ 1.530 χ^2/NDF : 640199.3/17

Out: 5684.393 $\pm$ 1.355 χ^2/NDF : 1081272.0/20

All: 5971.221 $\pm$ 1.014 χ^2/NDF : 1823532.3/38

asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -2174.048 ± 2347.664 $\chi^2/\text{NDF}: 14.6/15$

Left Out: 6844.295 ± 5082.448 $\chi^2/\text{NDF}: 0.3/2$

Right Out: -183.559 ± 2228.883 $\chi^2/\text{NDF}: 14.7/17$

Left In: -5021.311 ± 5845.821 $\chi^2/\text{NDF}: 0.1/1$

Left: 1736.316 ± 3835.527 $\chi^2/\text{NDF}: 2.7/4$

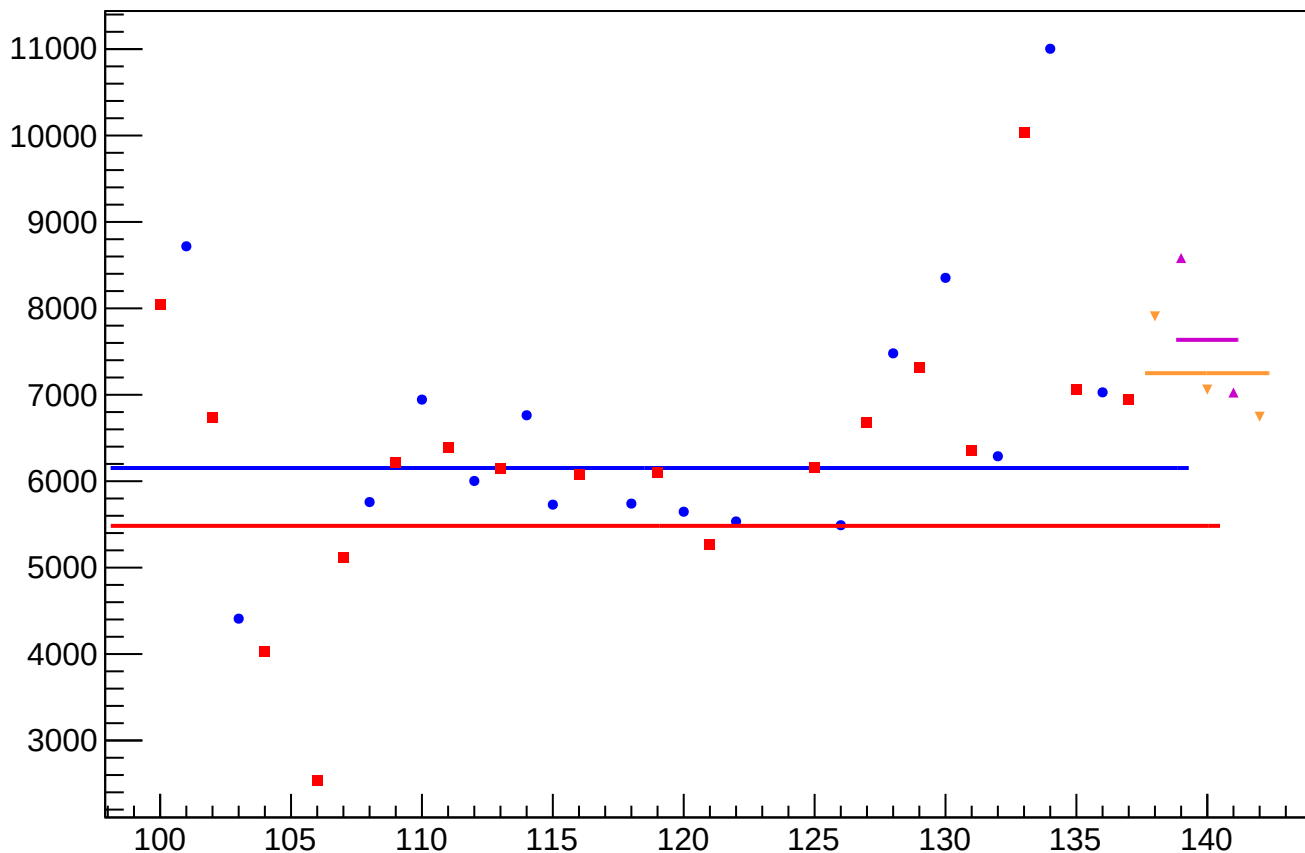
Right: -1127.176 ± 1616.419 $\chi^2/\text{NDF}: 29.6/33$

In: -2569.479 ± 2178.549 $\chi^2/\text{NDF}: 14.9/17$

Out: 950.036 ± 2041.223 $\chi^2/\text{NDF}: 16.5/20$

All: -695.305 ± 1489.546 $\chi^2/\text{NDF}: 32.8/38$

asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 6152.690+/-1.660 χ^2/NDF : 624026.7/15

Left Out: 7250.096+/-3.594 χ^2/NDF : 16702.0/2

Right Out: 5483.337+/-1.519 χ^2/NDF : 1148712.9/17

Left In: 7635.837+/-4.134 χ^2/NDF : 33764.3/1

Left: 7416.152+/-2.712 χ^2/NDF : 55425.7/4

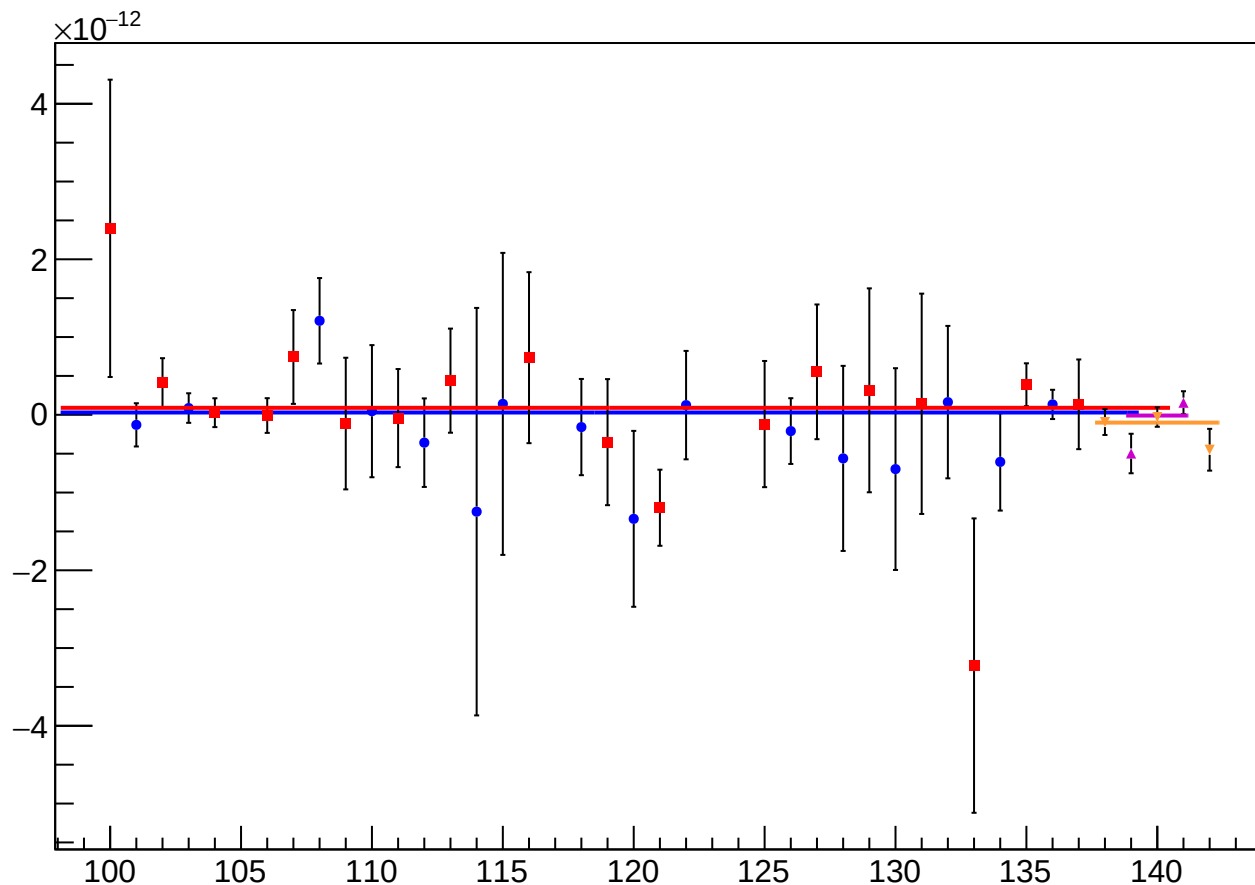
Right: 5788.476+/-1.121 χ^2/NDF : 1861205.2/33

In: 6358.669+/-1.540 χ^2/NDF : 768650.0/17

Out: 5751.263+/-1.400 χ^2/NDF : 1370443.5/20

All: 6025.913+/-1.036 χ^2/NDF : 2224266.9/38

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9.5/15

Left Out: -0.000+/-0.000 χ^2/NDF : 2.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 16.5/17

Left In: -0.000+/-0.000 χ^2/NDF : 4.9/1

Left: -0.000+/-0.000 χ^2/NDF : 7.3/4

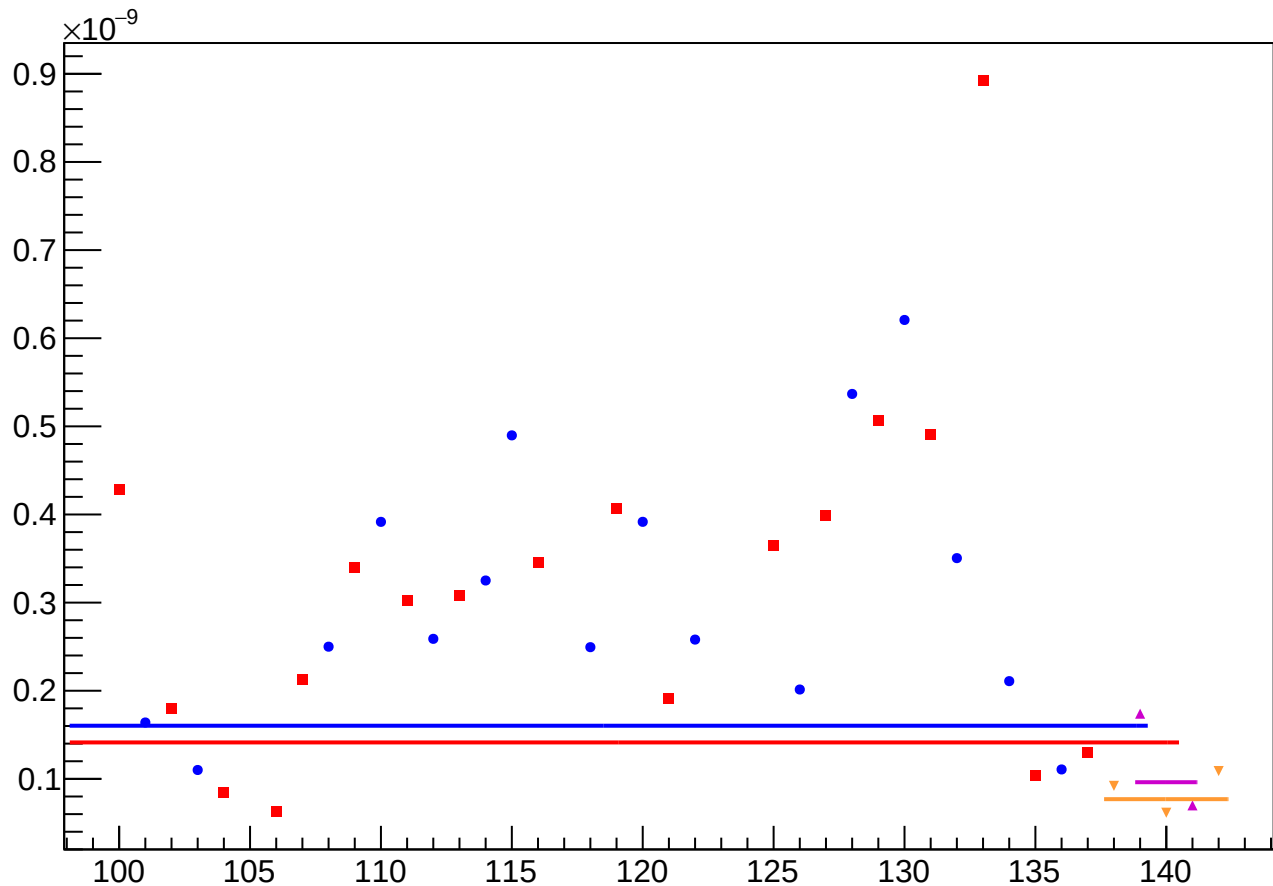
Right: 0.000+/-0.000 χ^2/NDF : 26.2/33

In: 0.000+/-0.000 χ^2/NDF : 14.5/17

Out: -0.000+/-0.000 χ^2/NDF : 20.4/20

All: -0.000+/-0.000 χ^2/NDF : 35.0/38

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1329606.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 75087.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2165946.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 250898.5/1

Left: 0.000+/-0.000 χ^2/NDF : 355524.7/4

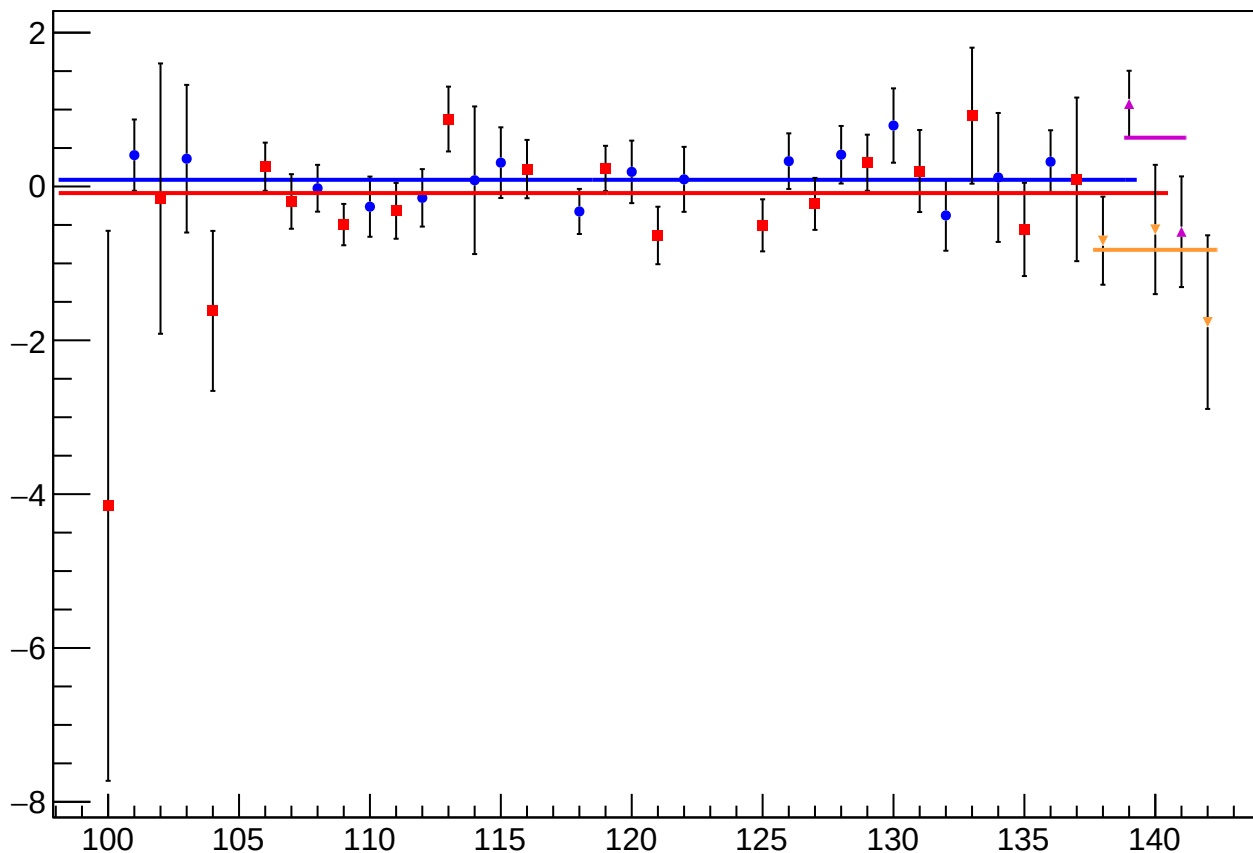
Right: 0.000+/-0.000 χ^2/NDF : 3529311.8/33

In: 0.000+/-0.000 χ^2/NDF : 1884216.5/17

Out: 0.000+/-0.000 χ^2/NDF : 2671045.8/20

All: 0.000+/-0.000 χ^2/NDF : 4700723.9/38

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.087 ± 0.105 $\chi^2/\text{NDF}: 8.8/15$

Left Out: -0.824 ± 0.436 $\chi^2/\text{NDF}: 0.8/2$

Right Out: -0.086 ± 0.097 $\chi^2/\text{NDF}: 21.8/17$

Left In: 0.634 ± 0.370 $\chi^2/\text{NDF}: 3.9/1$

Left: 0.025 ± 0.282 $\chi^2/\text{NDF}: 11.2/4$

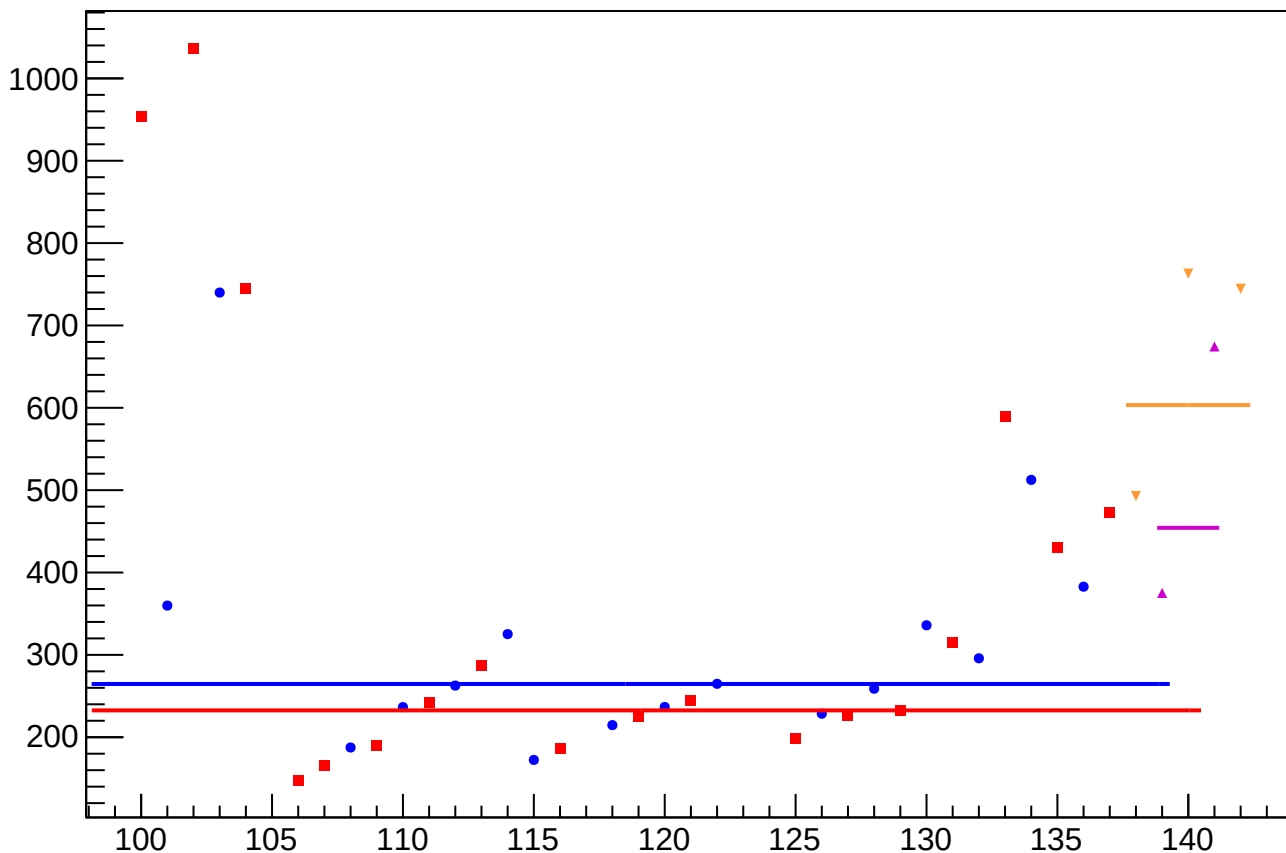
Right: -0.006 ± 0.071 $\chi^2/\text{NDF}: 32.1/33$

In: 0.128 ± 0.101 $\chi^2/\text{NDF}: 14.8/17$

Out: -0.121 ± 0.095 $\chi^2/\text{NDF}: 25.4/20$

All: -0.004 ± 0.069 $\chi^2/\text{NDF}: 43.4/38$

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 264.667+/-0.074 χ^2/NDF : 1284007.6/15

Left Out: 603.317+/-0.309 χ^2/NDF :177937.4/2

Right Out: 232.596+/-0.069 χ^2/NDF : 2032662.7/17

Left In: 454.317+/-0.262 χ^2/NDF :254373.8/1

Left: 516.605+/-0.200 χ^2/NDF : 567950.7/4

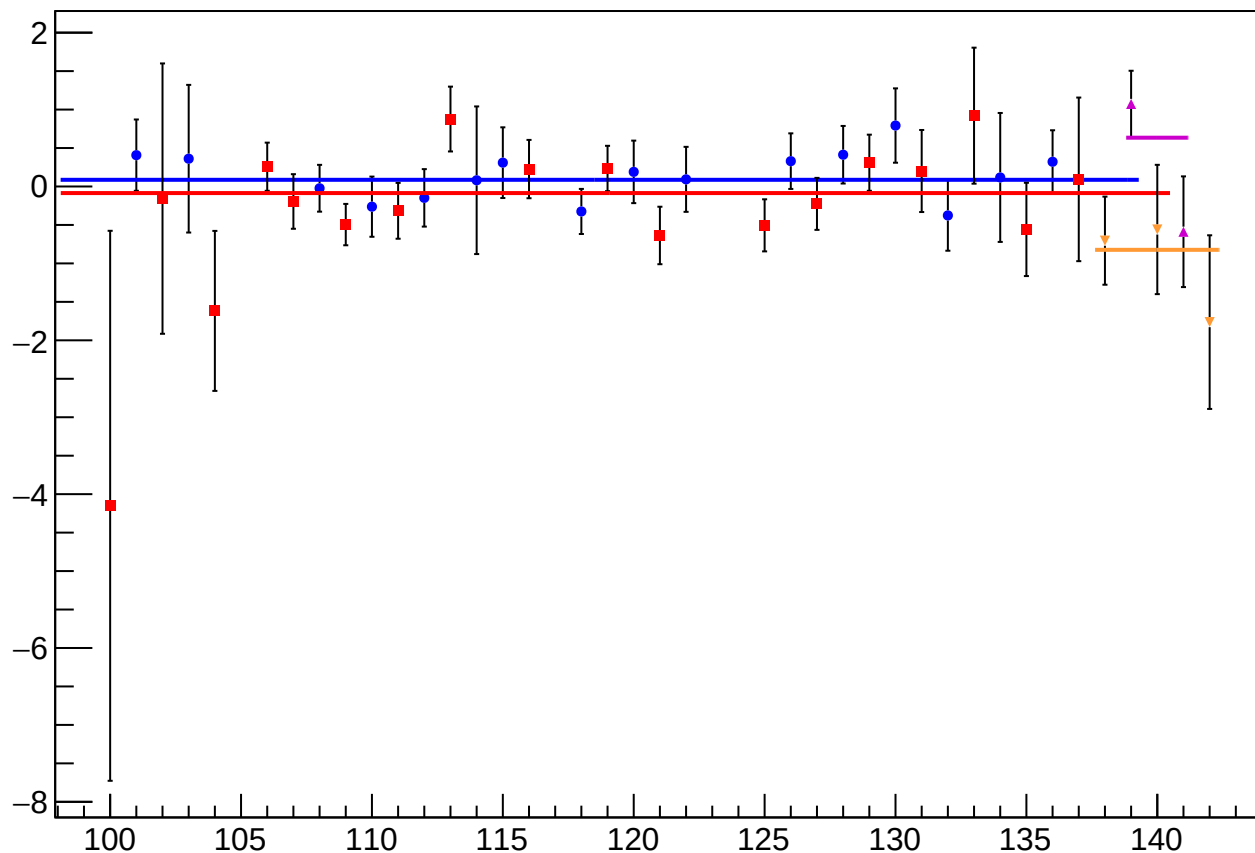
Right: 247.407+/-0.050 χ^2/NDF : 3416944.1/33

In: 278.827+/-0.071 χ^2/NDF :2024793.7/17

Out: 250.159+/-0.067 χ^2/NDF :3585076.7/20

All: 263.606+/-0.049 χ^2/NDF : 5695287.5/38

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.087 ± 0.105 $\chi^2/\text{NDF}: 8.8/15$

Left Out: -0.824 ± 0.436 $\chi^2/\text{NDF}: 0.8/2$

Right Out: -0.086 ± 0.097 $\chi^2/\text{NDF}: 21.8/17$

Left In: 0.634 ± 0.370 $\chi^2/\text{NDF}: 3.9/1$

Left: 0.025 ± 0.282 $\chi^2/\text{NDF}: 11.2/4$

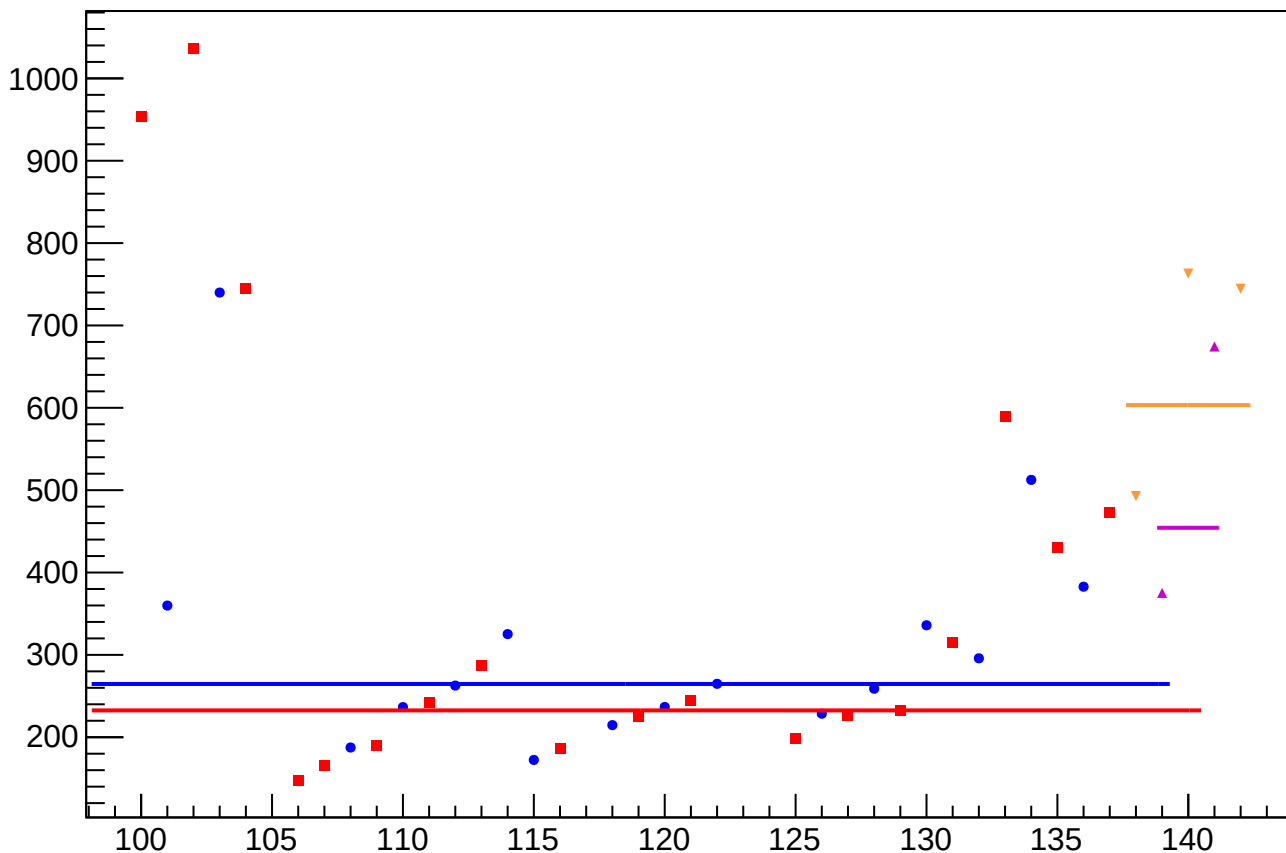
Right: -0.006 ± 0.071 $\chi^2/\text{NDF}: 32.1/33$

In: 0.128 ± 0.101 $\chi^2/\text{NDF}: 14.8/17$

Out: -0.121 ± 0.095 $\chi^2/\text{NDF}: 25.4/20$

All: -0.004 ± 0.069 $\chi^2/\text{NDF}: 43.4/38$

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 264.667 $\pm$ 0.074 χ^2 /NDF: 1284007.6/15

Left Out: 603.317 $\pm$ 0.309 χ^2 /NDF:177937.4/2

Right Out: 232.596 $\pm$ 0.069 χ^2 /NDF: 2032662.7/17

Left In: 454.317 $\pm$ 0.262 χ^2 /NDF:254373.8/1

Left: 516.605 $\pm$ 0.200 χ^2 /NDF: 567950.7/4

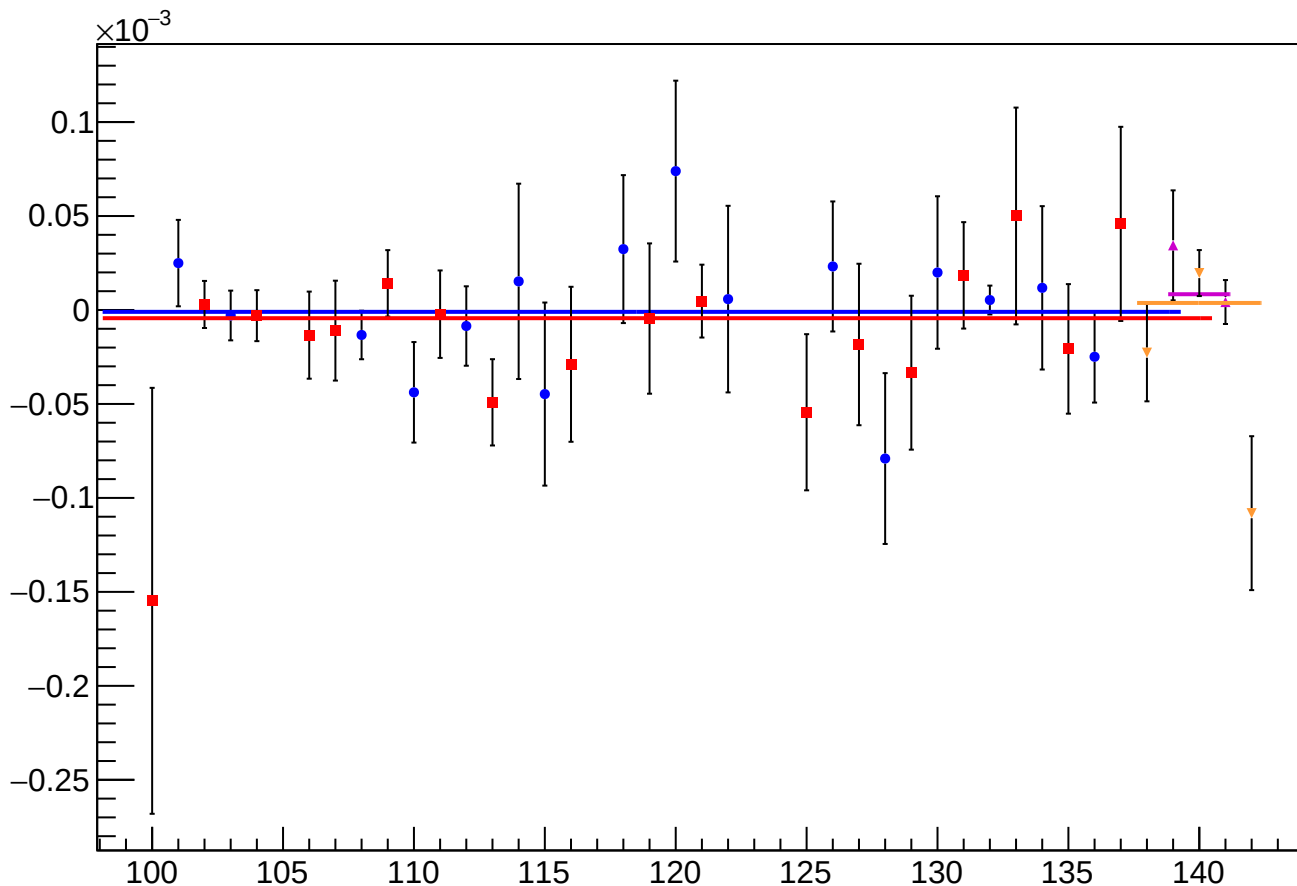
Right: 247.407 $\pm$ 0.050 χ^2 /NDF: 3416944.1/33

In: 278.827 $\pm$ 0.071 χ^2 /NDF:2024793.7/17

Out: 250.159 $\pm$ 0.067 χ^2 /NDF:3585076.7/20

All: 263.606 $\pm$ 0.049 χ^2 /NDF: 5695287.5/38

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 14.4/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 10.2/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 12.6/17

Left In: 0.000 ± 0.000 χ^2/NDF : 0.9/1

Left: 0.000 ± 0.000 χ^2/NDF : 11.2/4

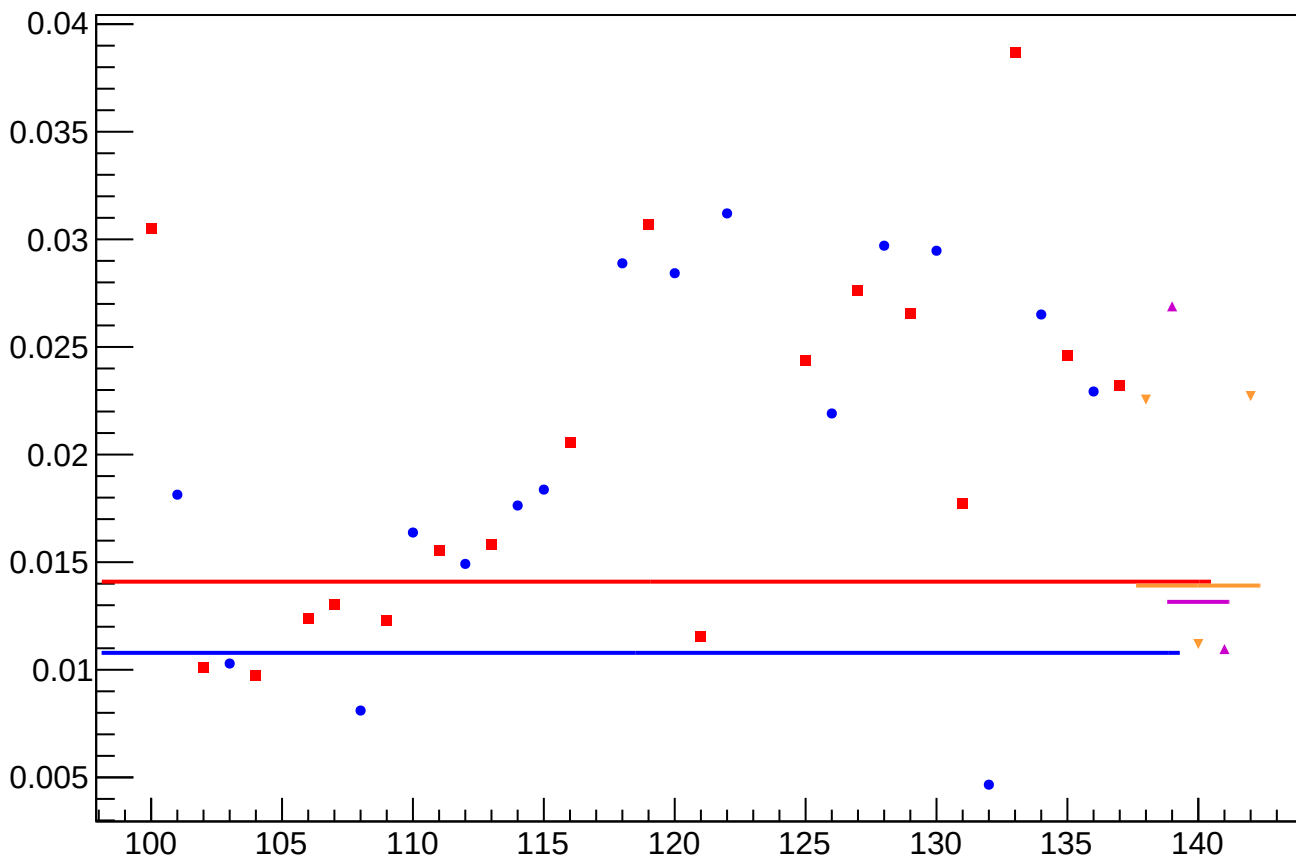
Right: -0.000 ± 0.000 χ^2/NDF : 27.2/33

In: 0.000 ± 0.000 χ^2/NDF : 15.9/17

Out: -0.000 ± 0.000 χ^2/NDF : 23.2/20

All: -0.000 ± 0.000 χ^2/NDF : 39.4/38

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 4580054.6/15

Left Out: 0.014+/-0.000 χ^2/NDF : 413617.0/2

Right Out: 0.014+/-0.000 χ^2/NDF : 2084942.5/17

Left In: 0.013+/-0.000 χ^2/NDF : 511023.5/1

Left: 0.014+/-0.000 χ^2/NDF : 929587.5/4

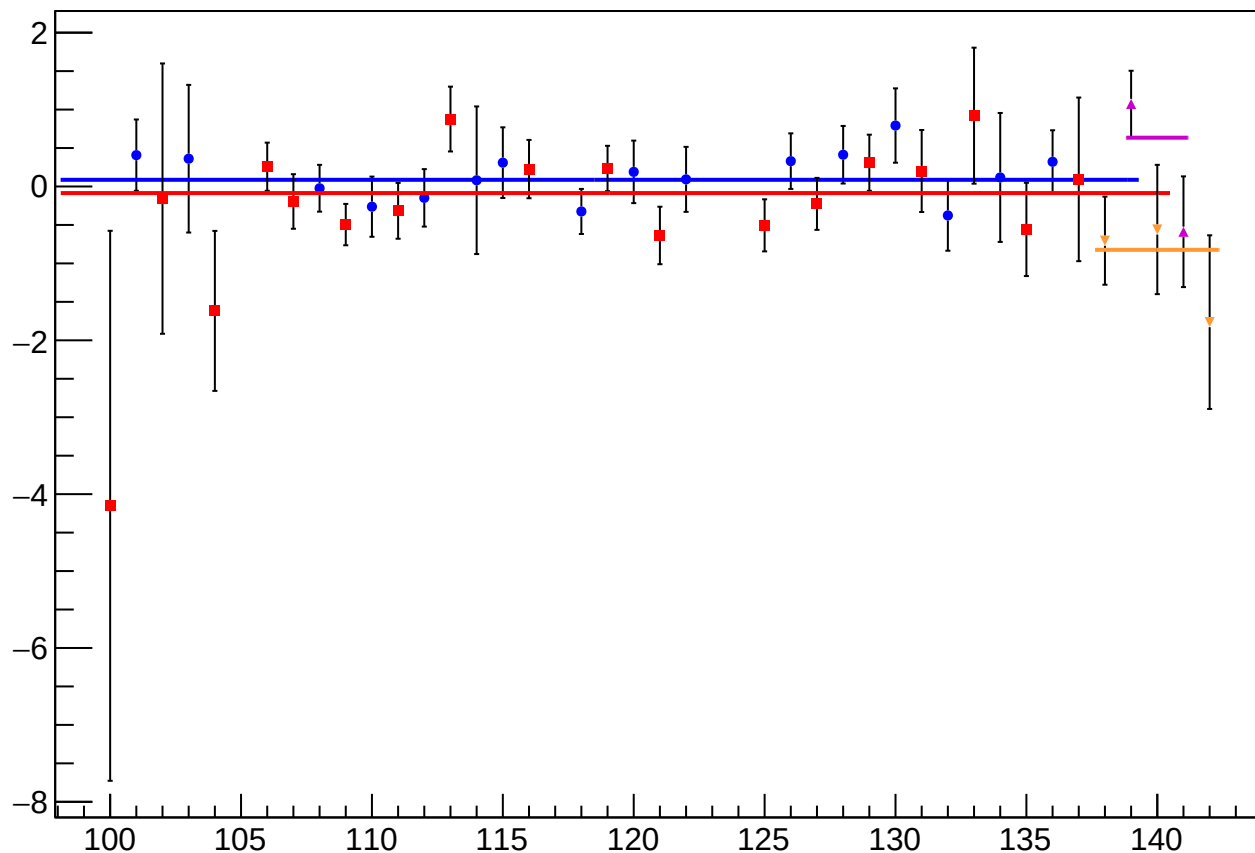
Right: 0.012+/-0.000 χ^2/NDF : 7045946.1/33

In: 0.011+/-0.000 χ^2/NDF : 5169870.8/17

Out: 0.014+/-0.000 χ^2/NDF : 2499008.2/20

All: 0.012+/-0.000 χ^2/NDF : 8025104.0/38

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.087 ± 0.105 $\chi^2/\text{NDF}: 8.8/15$

Left Out: -0.824 ± 0.436 $\chi^2/\text{NDF}: 0.8/2$

Right Out: -0.086 ± 0.097 $\chi^2/\text{NDF}: 21.8/17$

Left In: 0.634 ± 0.370 $\chi^2/\text{NDF}: 3.9/1$

Left: 0.025 ± 0.282 $\chi^2/\text{NDF}: 11.3/4$

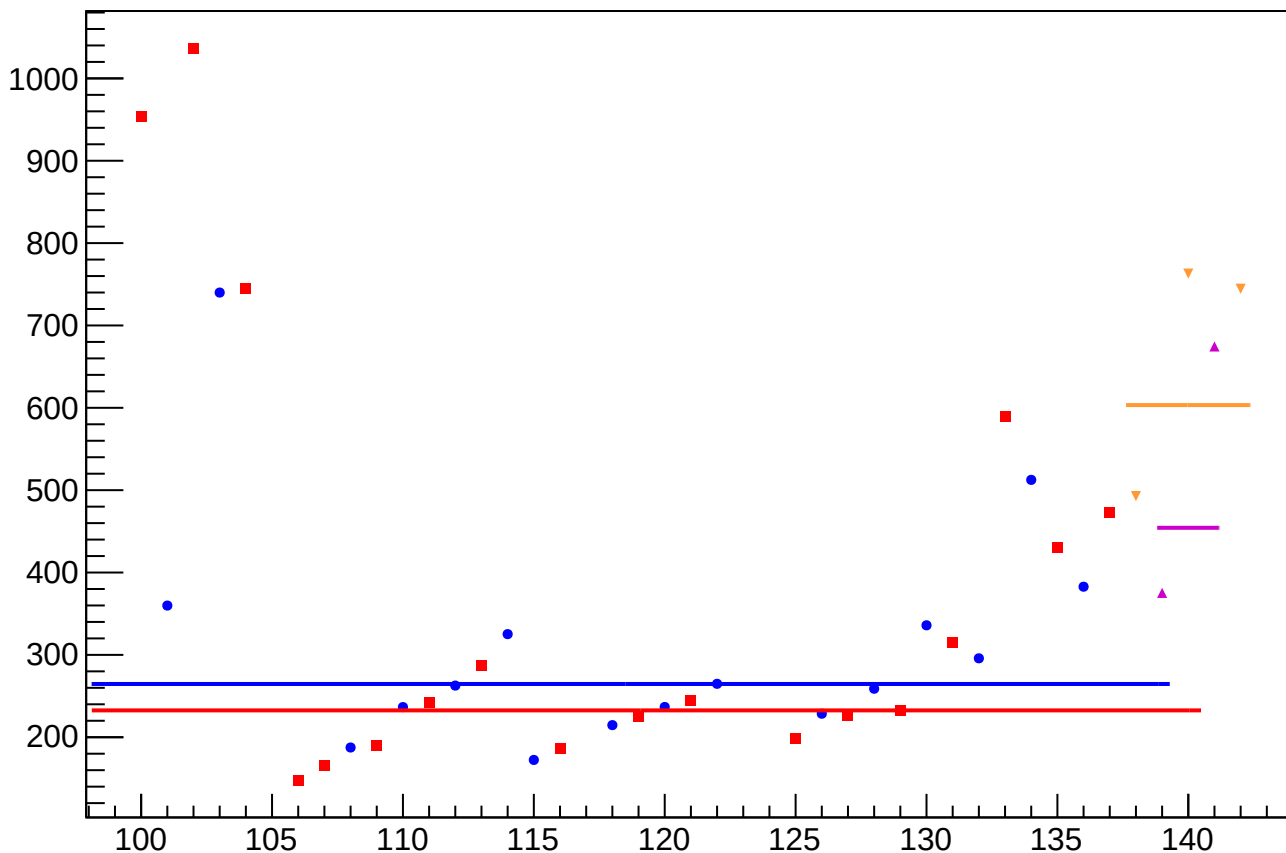
Right: -0.006 ± 0.071 $\chi^2/\text{NDF}: 32.1/33$

In: 0.128 ± 0.101 $\chi^2/\text{NDF}: 14.8/17$

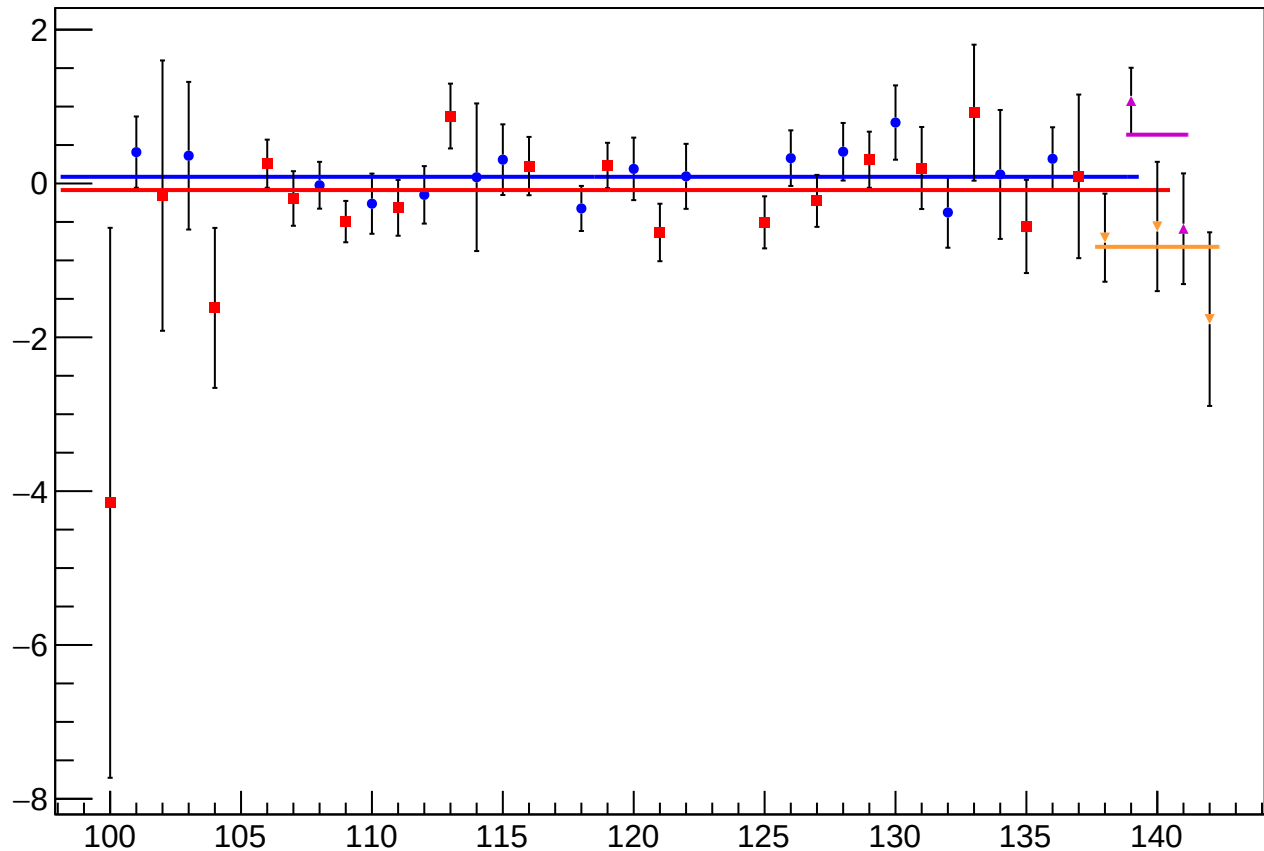
Out: -0.121 ± 0.095 $\chi^2/\text{NDF}: 25.4/20$

All: -0.004 ± 0.069 $\chi^2/\text{NDF}: 43.4/38$

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.087 ± 0.105 $\chi^2/\text{NDF}: 8.8/15$

Left Out: -0.824 ± 0.436 $\chi^2/\text{NDF}: 0.8/2$

Right Out: -0.086 ± 0.097 $\chi^2/\text{NDF}: 21.8/17$

Left In: 0.634 ± 0.370 $\chi^2/\text{NDF}: 3.9/1$

Left: 0.025 ± 0.282 $\chi^2/\text{NDF}: 11.3/4$

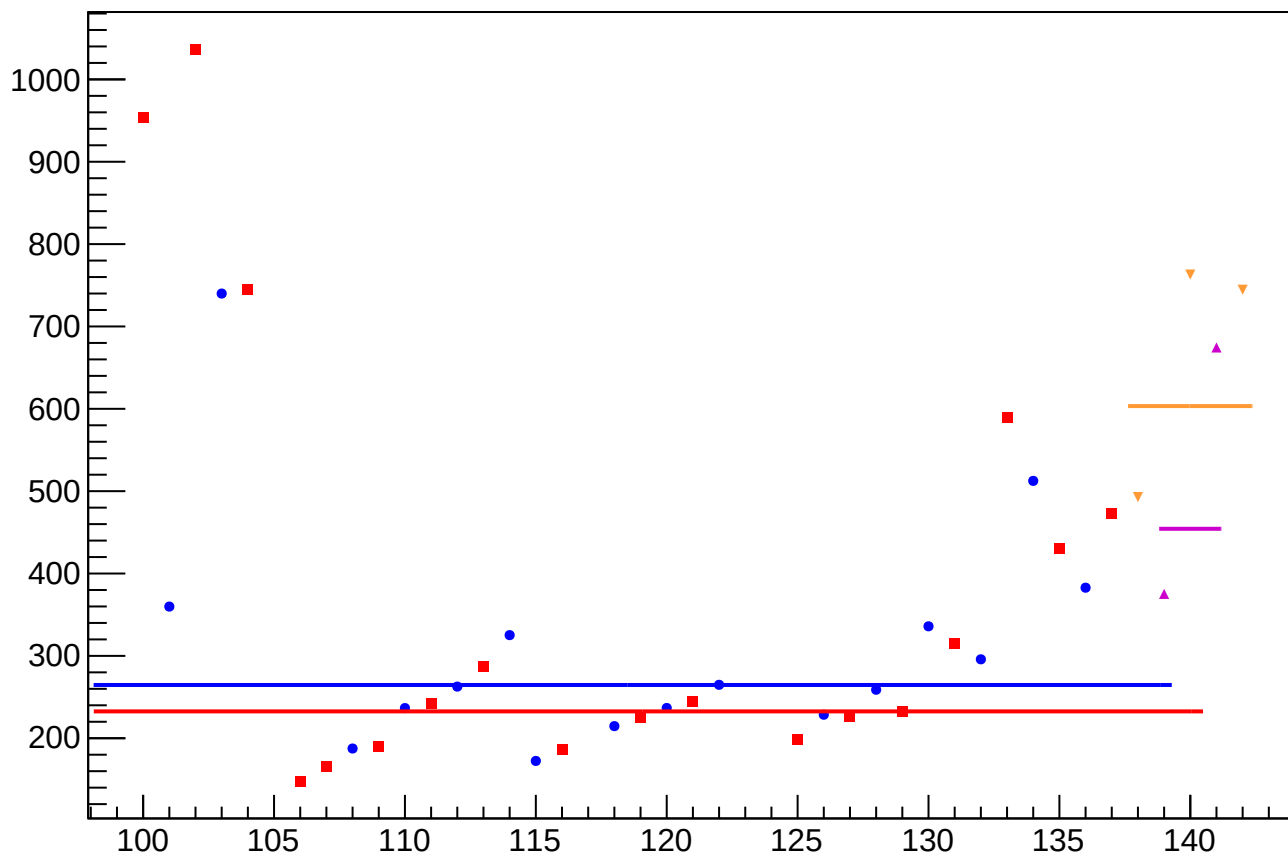
Right: -0.006 ± 0.071 $\chi^2/\text{NDF}: 32.1/33$

In: 0.128 ± 0.101 $\chi^2/\text{NDF}: 14.8/17$

Out: -0.121 ± 0.095 $\chi^2/\text{NDF}: 25.4/20$

All: -0.004 ± 0.069 $\chi^2/\text{NDF}: 43.4/38$

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 264.667 $\pm$ 0.074 χ^2/NDF : 1283977.8/15

Left Out: 603.323 $\pm$ 0.309 χ^2/NDF :177933.5/2

Right Out: 232.596 $\pm$ 0.069 χ^2/NDF : 2032655.0/17

Left In: 454.326 $\pm$ 0.262 χ^2/NDF :254359.0/1

Left: 516.613 $\pm$ 0.200 χ^2/NDF : 567924.0/4

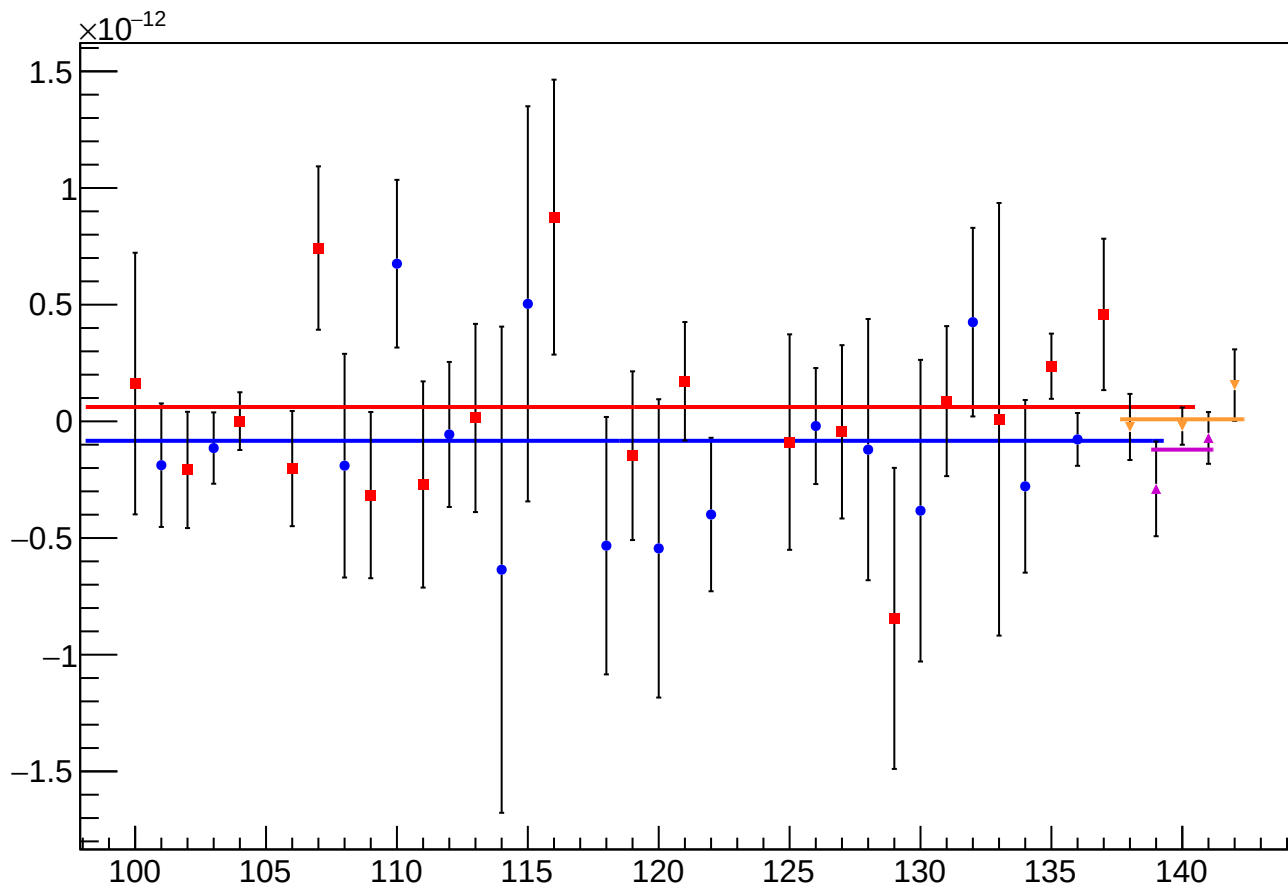
Right: 247.407 $\pm$ 0.050 χ^2/NDF : 3416901.3/33

In: 278.827 $\pm$ 0.071 χ^2/NDF :2024780.9/17

Out: 250.160 $\pm$ 0.067 χ^2/NDF :3585083.3/20

All: 263.606 $\pm$ 0.049 χ^2/NDF : 5695277.1/38

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 9.7/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:1.1/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 15.7/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:0.9/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 3.3/4

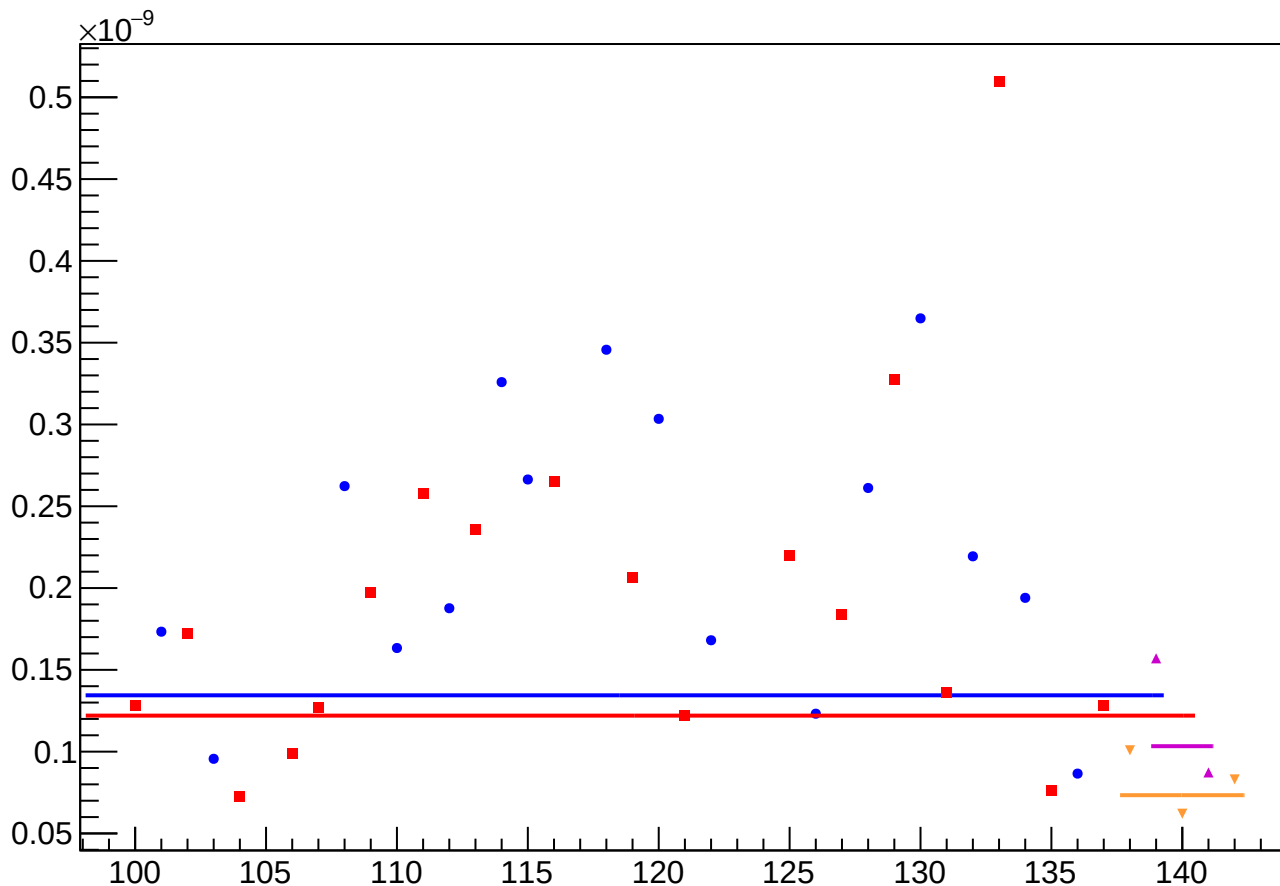
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 27.8/33

In: -0.000 $\pm$ 0.000 χ^2 /NDF:10.7/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:17.2/20

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 31.2/38

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1814968.0/15

Left Out: 0.000+/-0.000 χ^2/NDF :123178.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2003381.5/17

Left In: 0.000+/-0.000 χ^2/NDF :181926.0/1

Left: 0.000+/-0.000 χ^2/NDF : 438185.1/4

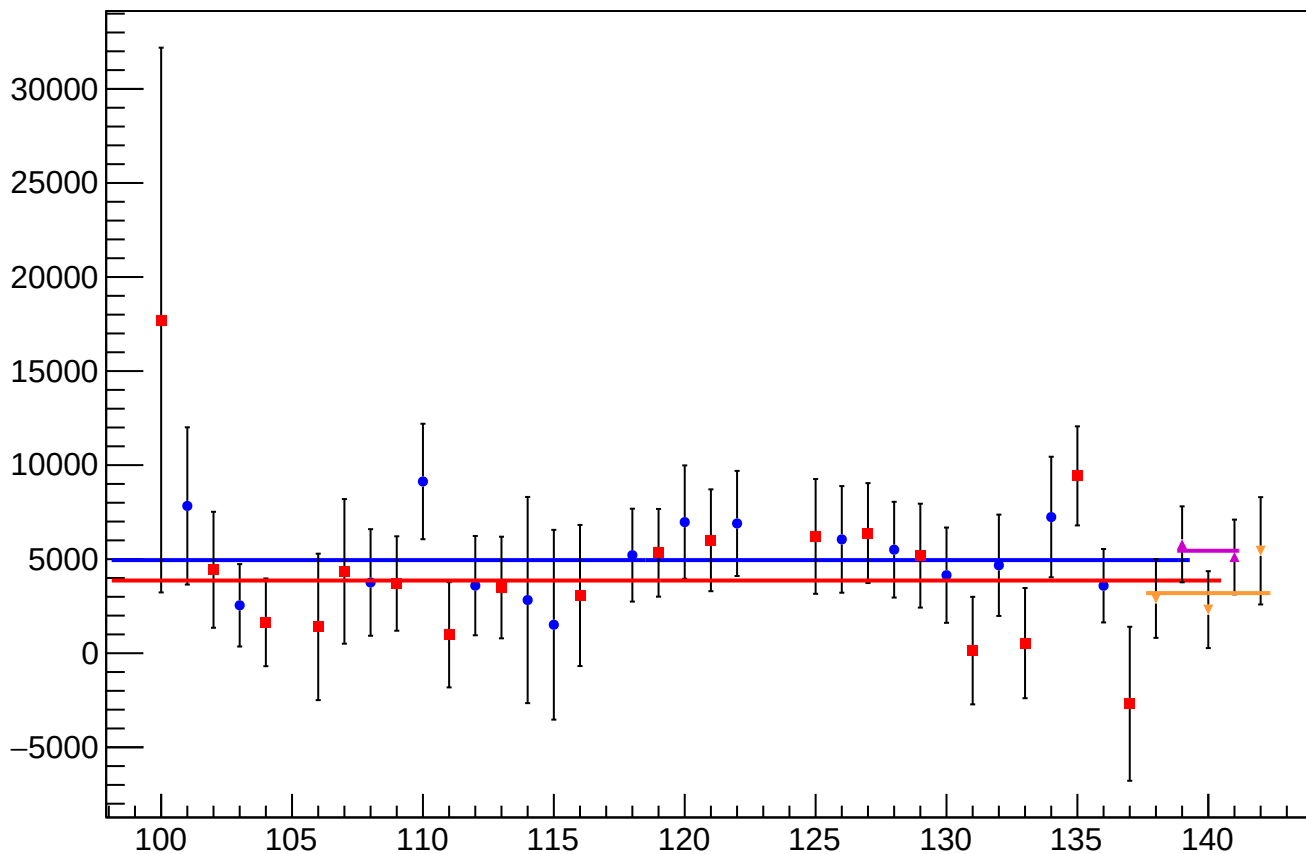
Right: 0.000+/-0.000 χ^2/NDF : 3852912.0/33

In: 0.000+/-0.000 χ^2/NDF :2132854.7/17

Out: 0.000+/-0.000 χ^2/NDF :2705654.4/20

All: 0.000+/-0.000 χ^2/NDF : 5113898.4/38

reg_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4950.321+/-698.937 χ^2/NDF : 6.8/15

Left Out: 3197.365+/-1301.168 χ^2/NDF : 0.8/2

Right Out: 3865.145+/-695.781 χ^2/NDF : 16.2/17

Left In: 5447.924+/-1415.728 χ^2/NDF : 0.1/1

Left: 4227.917+/-958.009 χ^2/NDF : 2.3/4

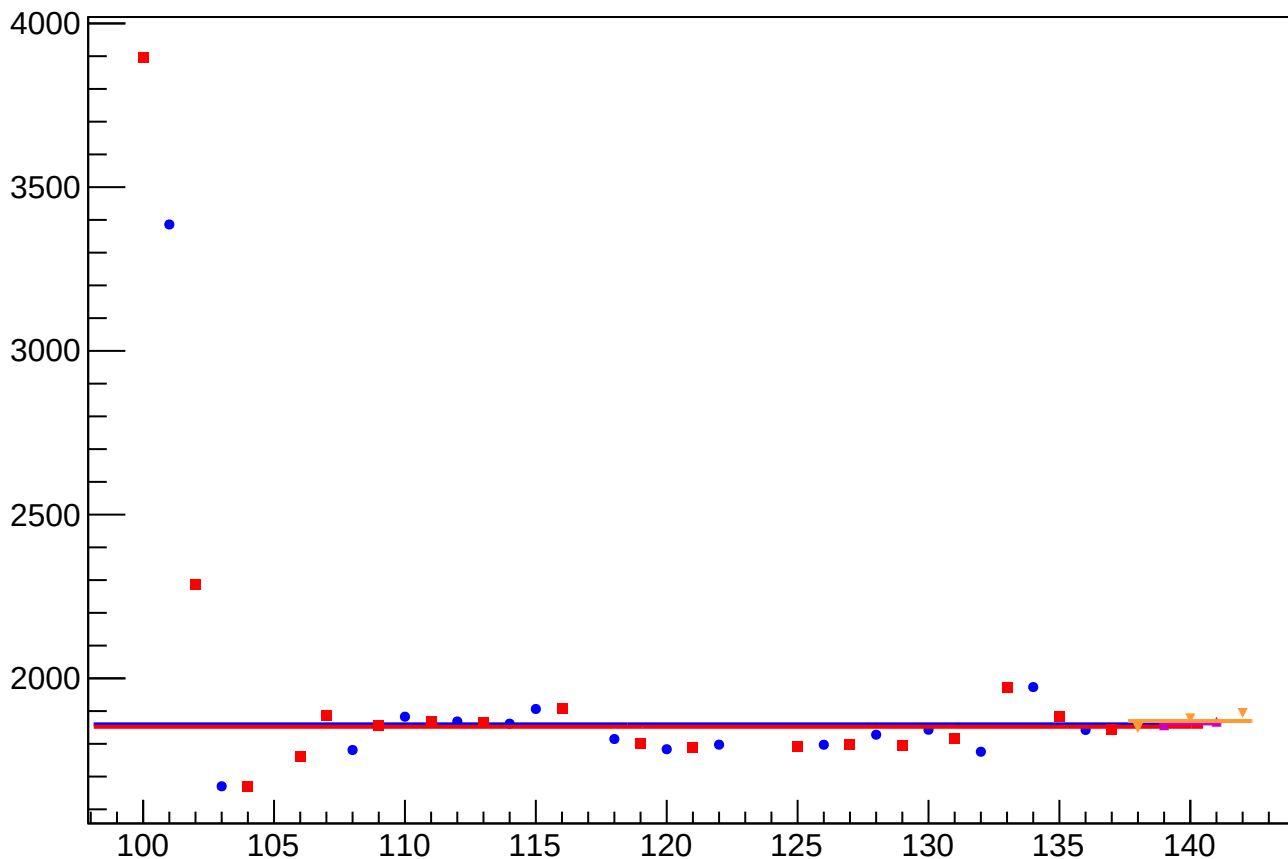
Right: 4405.277+/-493.103 χ^2/NDF : 24.2/33

In: 5047.836+/-626.721 χ^2/NDF : 7.0/17

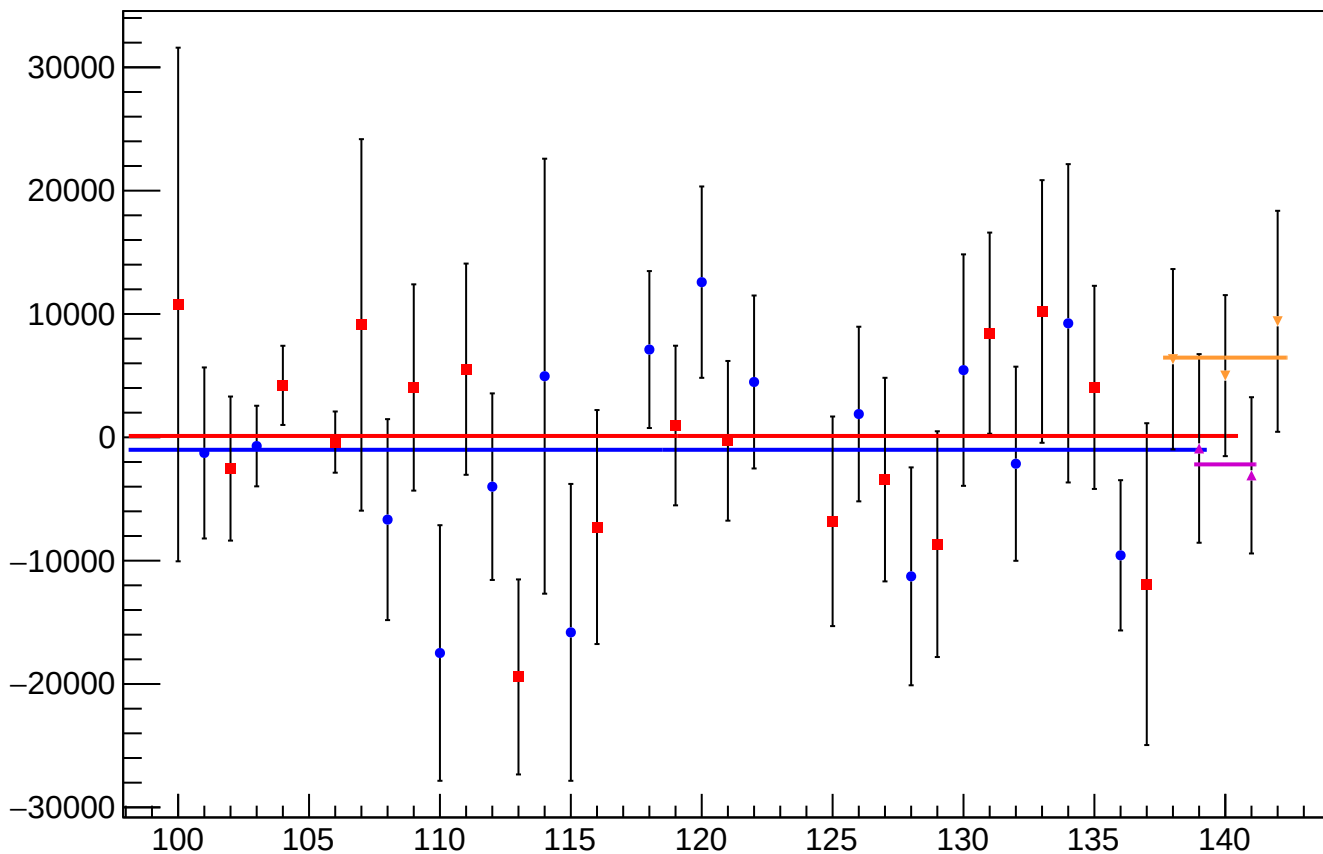
Out: 3716.657+/-613.567 χ^2/NDF : 17.2/20

All: 4368.130+/-438.434 χ^2/NDF : 26.5/38

reg_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



asym_us_avg_atlr_avg_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1010.288+/-1764.180 χ^2/NDF : 14.7/15

Left Out: 6463.163+/-4278.679 χ^2/NDF : 0.2/2

Right Out: 111.261+/-1438.515 χ^2/NDF : 14.6/17

Left In: -2193.915+/-4878.343 χ^2/NDF : 0.0/1

Left: 2699.128+/-3216.722 χ^2/NDF : 2.0/4

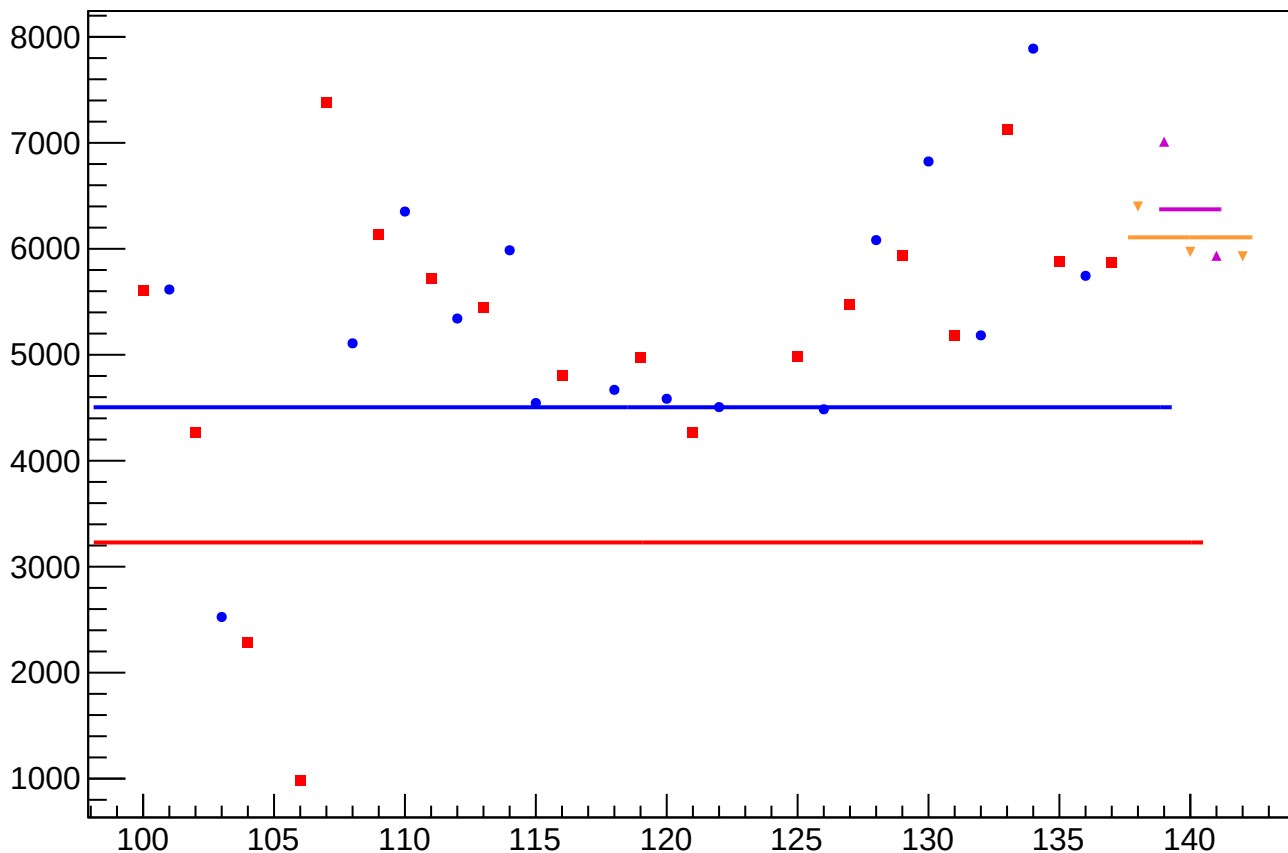
Right: -336.636+/-1114.867 χ^2/NDF : 29.6/33

In: -1147.180+/-1659.029 χ^2/NDF : 14.8/17

Out: 756.328+/-1363.516 χ^2/NDF : 16.8/20

All: -11.083+/-1053.393 χ^2/NDF : 32.4/38

asym_us_avg_atlr_avg_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 4504.788+/-1.247 χ^2/NDF : 1321104.9/15

Left Out: 6108.212+/-3.025 χ^2/NDF : 4839.0/2

Right Out: 3228.605+/-1.017 χ^2/NDF : 3956397.6/17

Left In: 6372.573+/-3.450 χ^2/NDF : 23510.4/1

Left: 6223.154+/-2.275 χ^2/NDF : 31669.1/4

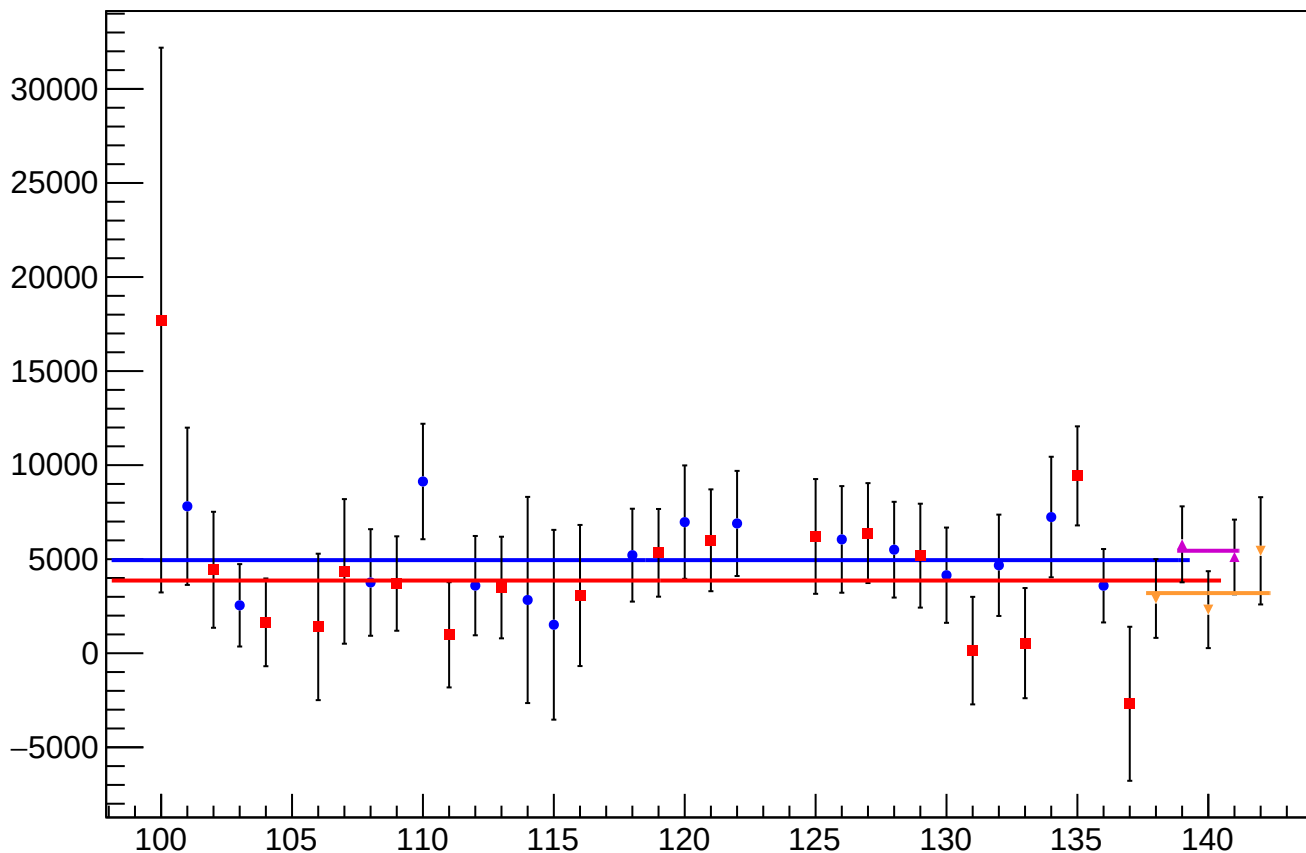
Right: 3738.256+/-0.788 χ^2/NDF : 5906121.0/33

In: 4720.806+/-1.173 χ^2/NDF : 1603890.4/17

Out: 3521.043+/-0.964 χ^2/NDF : 4775131.7/20

All: 4004.735+/-0.745 χ^2/NDF : 7003293.9/38

cor_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4949.838 $\pm$ 698.937 χ^2 /NDF: 6.8/15

Left Out: 3197.397 $\pm$ 1301.168 χ^2 /NDF: 0.8/2

Right Out: 3864.930 $\pm$ 695.781 χ^2 /NDF: 16.2/17

Left In: 5448.265 $\pm$ 1415.728 χ^2 /NDF: 0.1/1

Left: 4228.090 $\pm$ 958.009 χ^2 /NDF: 2.3/4

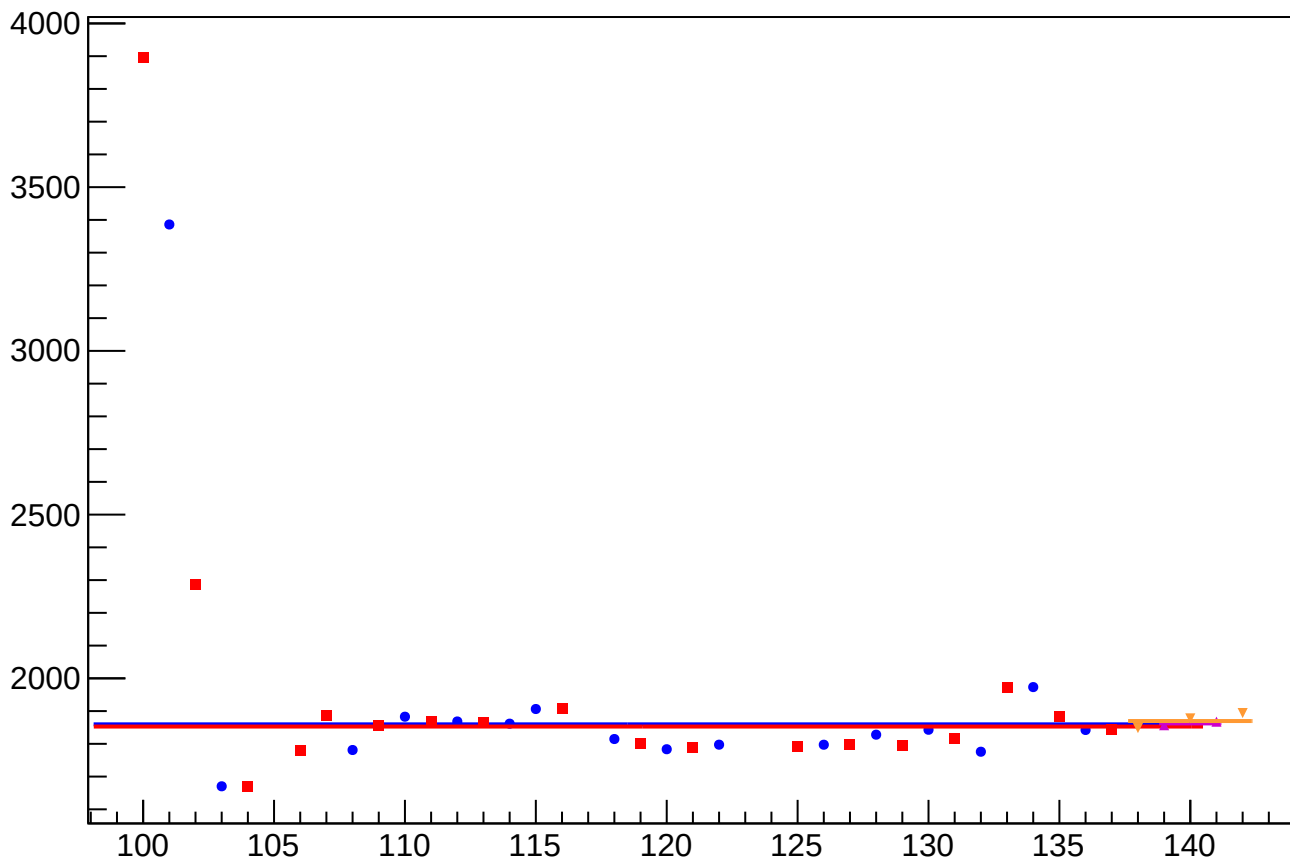
Right: 4404.929 $\pm$ 493.103 χ^2 /NDF: 24.2/33

In: 5047.515 $\pm$ 626.721 χ^2 /NDF: 7.0/17

Out: 3716.497 $\pm$ 613.567 χ^2 /NDF: 17.2/20

All: 4367.891 $\pm$ 438.434 χ^2 /NDF: 26.5/38

cor_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1859.509+/-0.494 χ^2/NDF : 292336.5/15

Left Out: 1869.632+/-0.920 χ^2/NDF : 388.7/2

Right Out: 1852.770+/-0.491 χ^2/NDF : 101750.5/17

Left In: 1862.361+/-1.001 χ^2/NDF : 28.9/1

Left: 1866.303+/-0.677 χ^2/NDF : 446.2/4

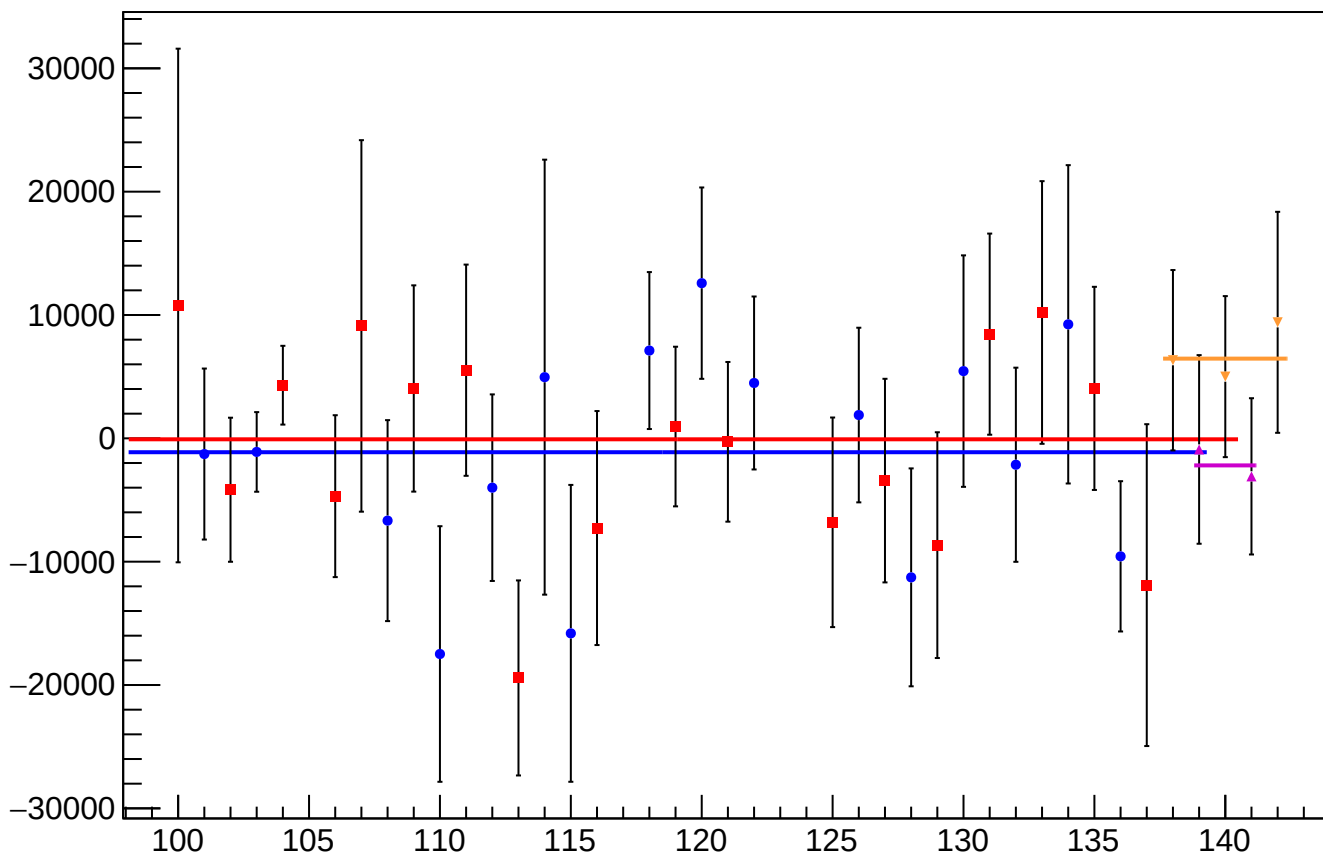
Right: 1856.115+/-0.348 χ^2/NDF : 394180.6/33

In: 1860.068+/-0.443 χ^2/NDF : 292371.9/17

Out: 1856.504+/-0.433 χ^2/NDF : 102400.7/20

All: 1858.244+/-0.310 χ^2/NDF : 394805.7/38

asym_us_avg_atlr_avg_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1125.567 ± 1757.876 $\chi^2/\text{NDF}: 14.7/15$

Left Out: 6463.196 ± 4278.671 $\chi^2/\text{NDF}: 0.2/2$

Right Out: -78.270 ± 1702.444 $\chi^2/\text{NDF}: 15.5/17$

Left In: -2194.000 ± 4878.340 $\chi^2/\text{NDF}: 0.0/1$

Left: 2699.114 ± 3216.718 $\chi^2/\text{NDF}: 2.0/4$

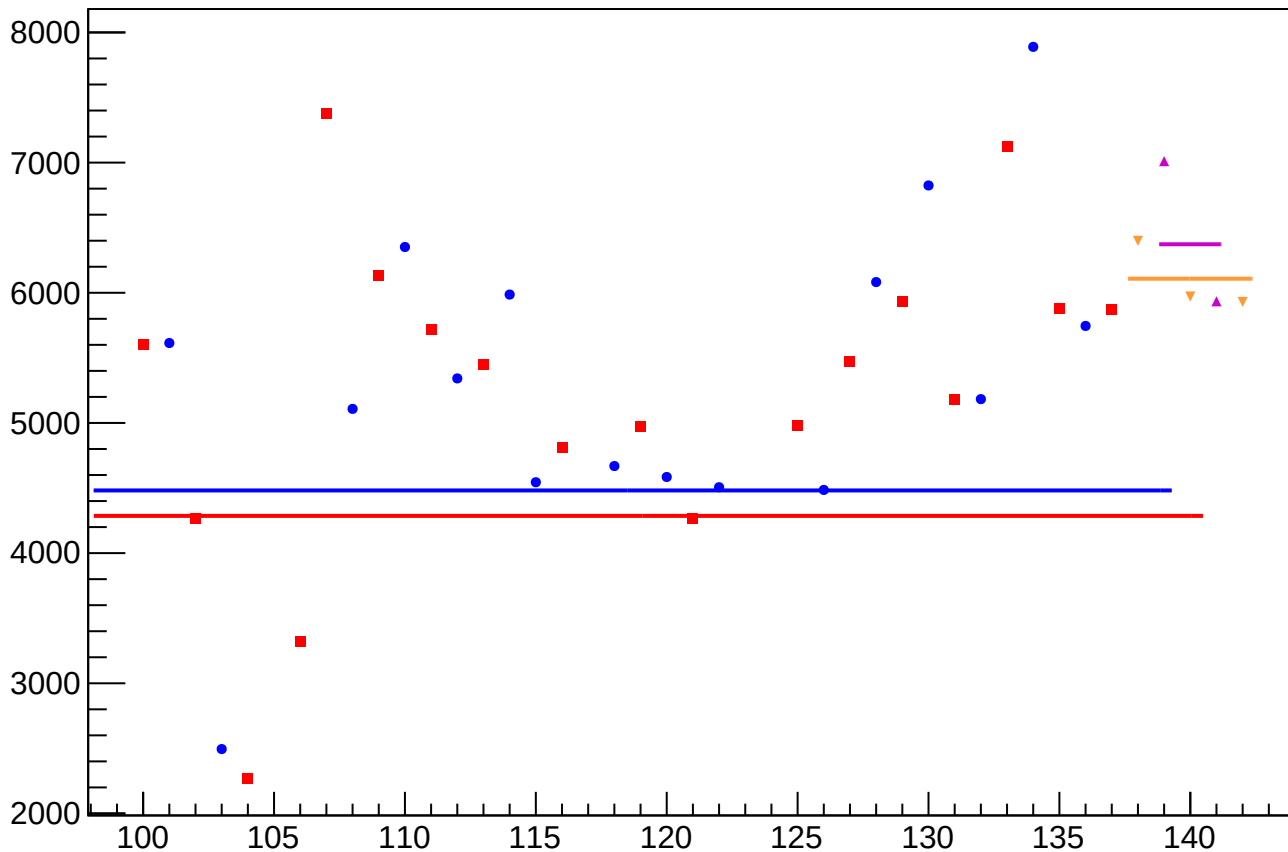
Right: -585.146 ± 1222.937 $\chi^2/\text{NDF}: 30.5/33$

In: -1248.356 ± 1653.783 $\chi^2/\text{NDF}: 14.8/17$

Out: 815.808 ± 1581.827 $\chi^2/\text{NDF}: 17.7/20$

All: -170.393 ± 1143.112 $\chi^2/\text{NDF}: 33.3/38$

asym_us_avg_atlr_avg_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 4481.518+/-1.243 χ^2/NDF : 1362255.0/15

Left Out: 6108.199+/-3.025 χ^2/NDF : 4839.5/2

Right Out: 4286.125+/-1.204 χ^2/NDF : 1549852.7/17

Left In: 6372.566+/-3.450 χ^2/NDF : 23511.4/1

Left: 6223.144+/-2.275 χ^2/NDF : 31670.7/4

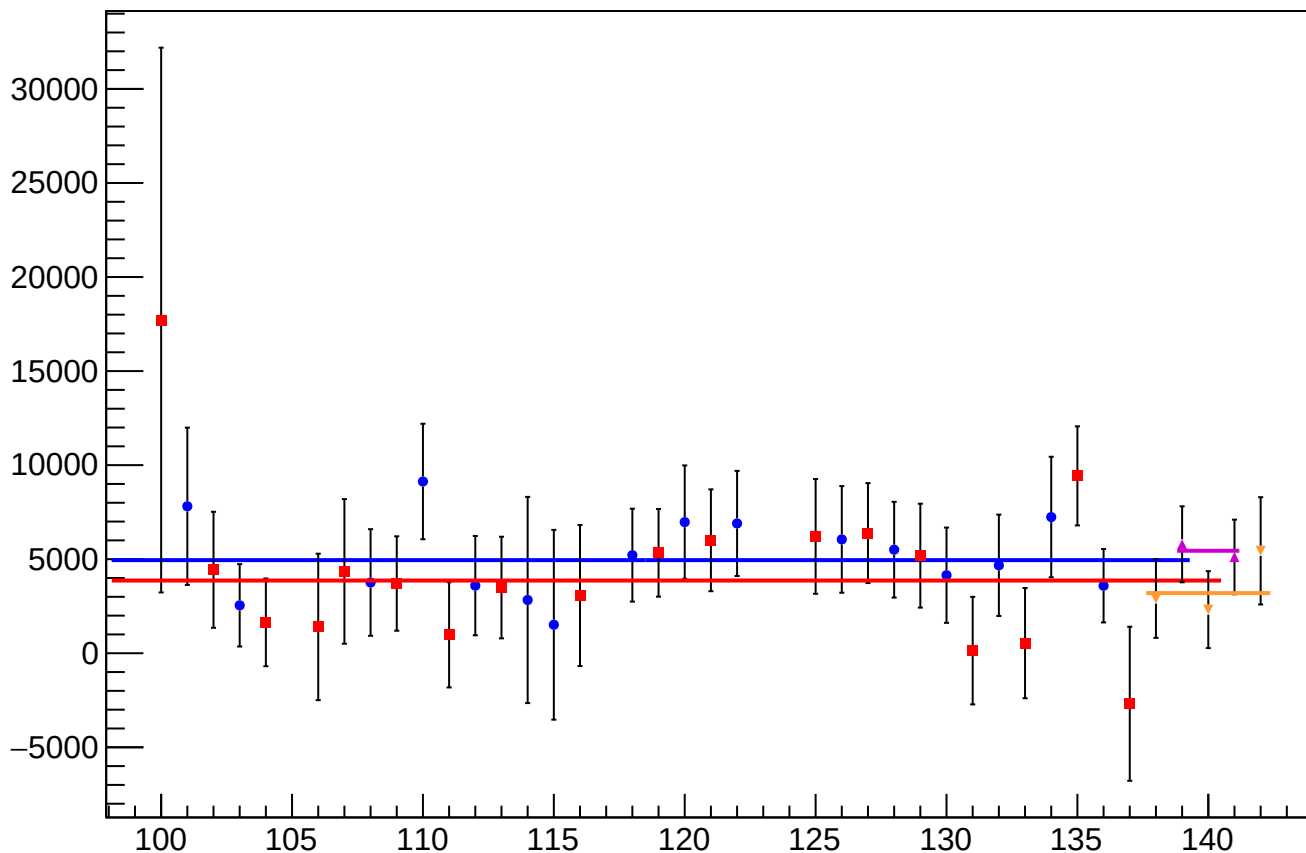
Right: 4380.692+/-0.865 χ^2/NDF : 2924858.4/33

In: 4698.846+/-1.169 χ^2/NDF : 1651760.1/17

Out: 4535.164+/-1.119 χ^2/NDF : 1867816.4/20

All: 4613.366+/-0.808 χ^2/NDF : 3529808.0/38

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4949.838 $\pm$ 698.937 χ^2 /NDF: 6.8/15

Left Out: 3197.397 $\pm$ 1301.168 χ^2 /NDF:0.8/2

Right Out: 3864.930 $\pm$ 695.781 χ^2 /NDF: 16.2/17

Left In: 5448.265 $\pm$ 1415.728 χ^2 /NDF:0.1/1

Left: 4228.090 $\pm$ 958.009 χ^2 /NDF: 2.3/4

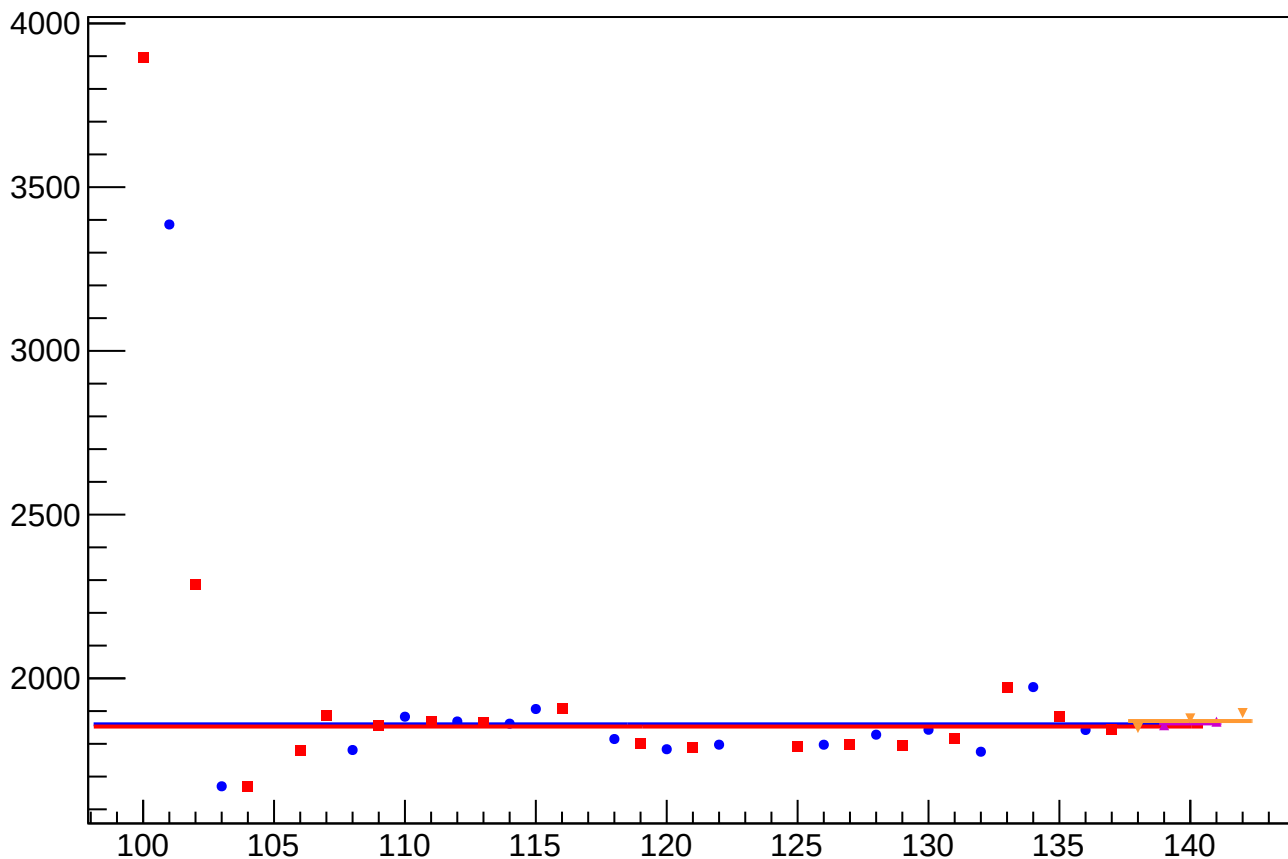
Right: 4404.929 $\pm$ 493.103 χ^2 /NDF: 24.2/33

In: 5047.515 $\pm$ 626.721 χ^2 /NDF:7.0/17

Out: 3716.497 $\pm$ 613.567 χ^2 /NDF:17.2/20

All: 4367.891 $\pm$ 438.434 χ^2 /NDF: 26.5/38

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1859.509+/-0.494 χ^2/NDF : 292336.5/15

Left Out: 1869.632+/-0.920 χ^2/NDF :388.7/2

Right Out: 1852.770+/-0.491 χ^2/NDF : 101750.5/17

Left In: 1862.361+/-1.001 χ^2/NDF :28.9/1

Left: 1866.303+/-0.677 χ^2/NDF : 446.2/4

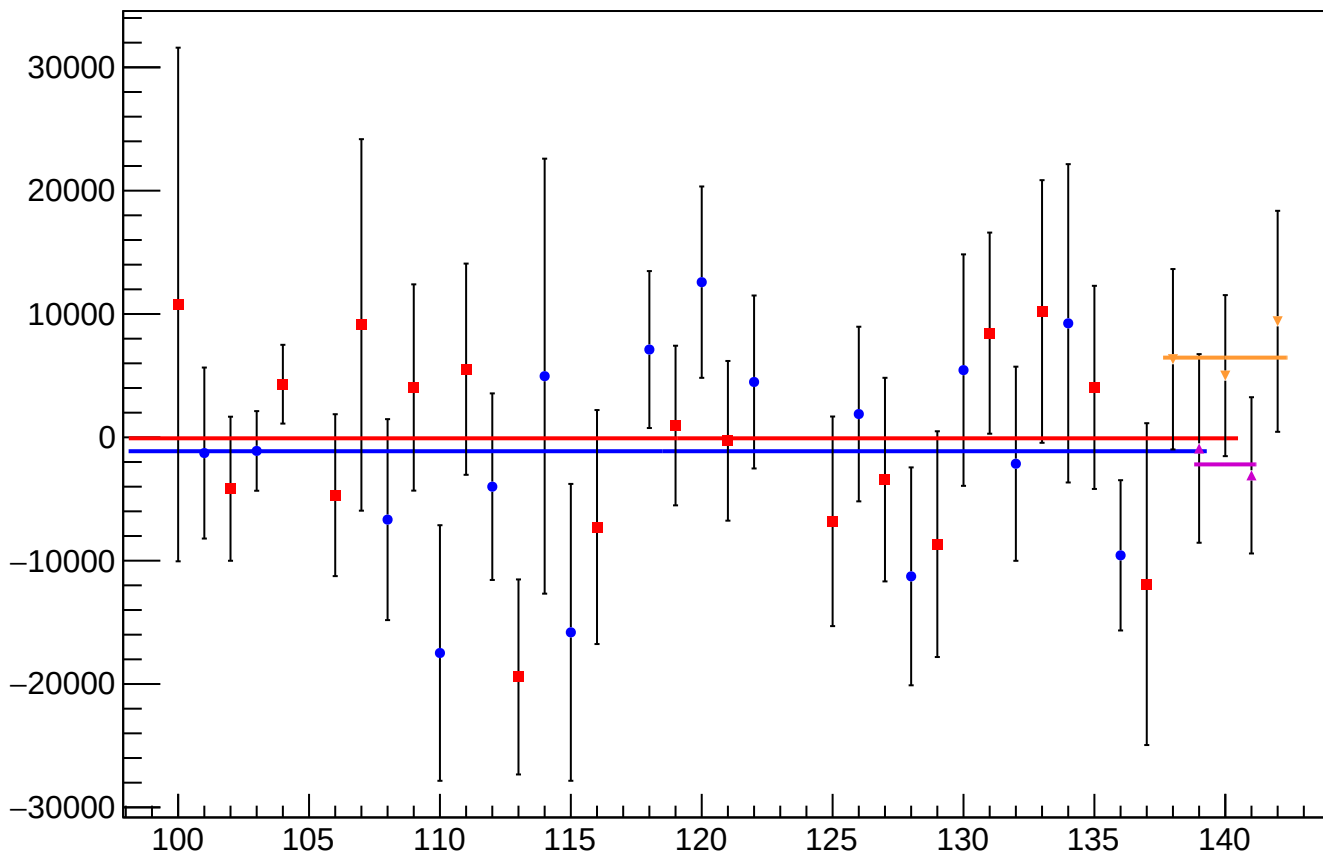
Right: 1856.115+/-0.348 χ^2/NDF : 394180.6/33

In: 1860.068+/-0.443 χ^2/NDF :292371.9/17

Out: 1856.504+/-0.433 χ^2/NDF :102400.7/20

All: 1858.244+/-0.310 χ^2/NDF : 394805.7/38

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1125.567 $\pm$ 1757.876 χ^2 /NDF: 14.7/15

Left Out: 6463.196 $\pm$ 4278.671 χ^2 /NDF:0.2/2

Right Out: -78.270 $\pm$ 1702.444 χ^2 /NDF: 15.5/17

Left In: -2194.000 $\pm$ 4878.340 χ^2 /NDF:0.0/1

Left: 2699.114 $\pm$ 3216.718 χ^2 /NDF: 2.0/4

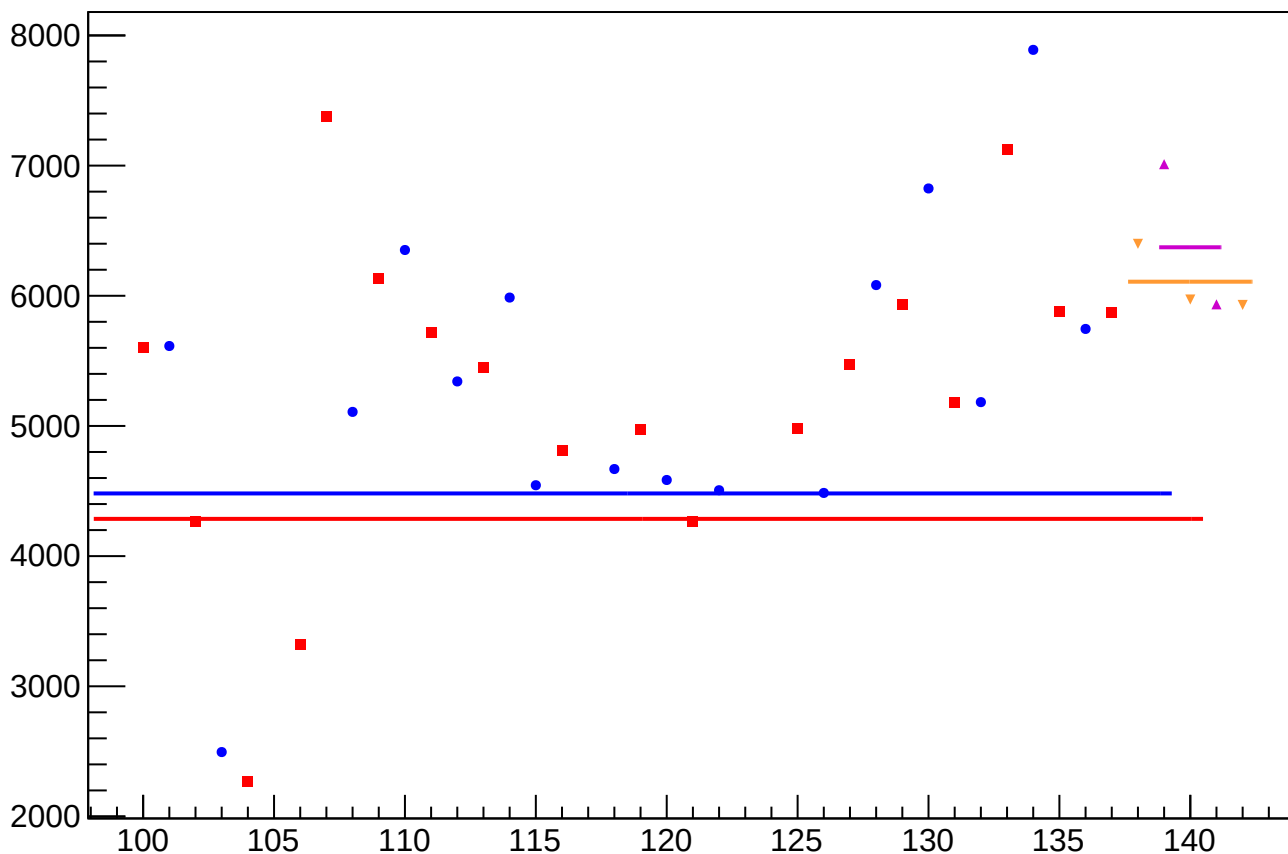
Right: -585.146 $\pm$ 1222.937 χ^2 /NDF: 30.5/33

In: -1248.356 $\pm$ 1653.783 χ^2 /NDF:14.8/17

Out: 815.808 $\pm$ 1581.827 χ^2 /NDF:17.7/20

All: -170.393 $\pm$ 1143.112 χ^2 /NDF: 33.3/38

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 4481.518+/-1.243 χ^2/NDF : 1362255.0/15

Left Out: 6108.199+/-3.025 χ^2/NDF : 4839.5/2

Right Out: 4286.125+/-1.204 χ^2/NDF : 1549852.7/17

Left In: 6372.566+/-3.450 χ^2/NDF : 23511.4/1

Left: 6223.144+/-2.275 χ^2/NDF : 31670.7/4

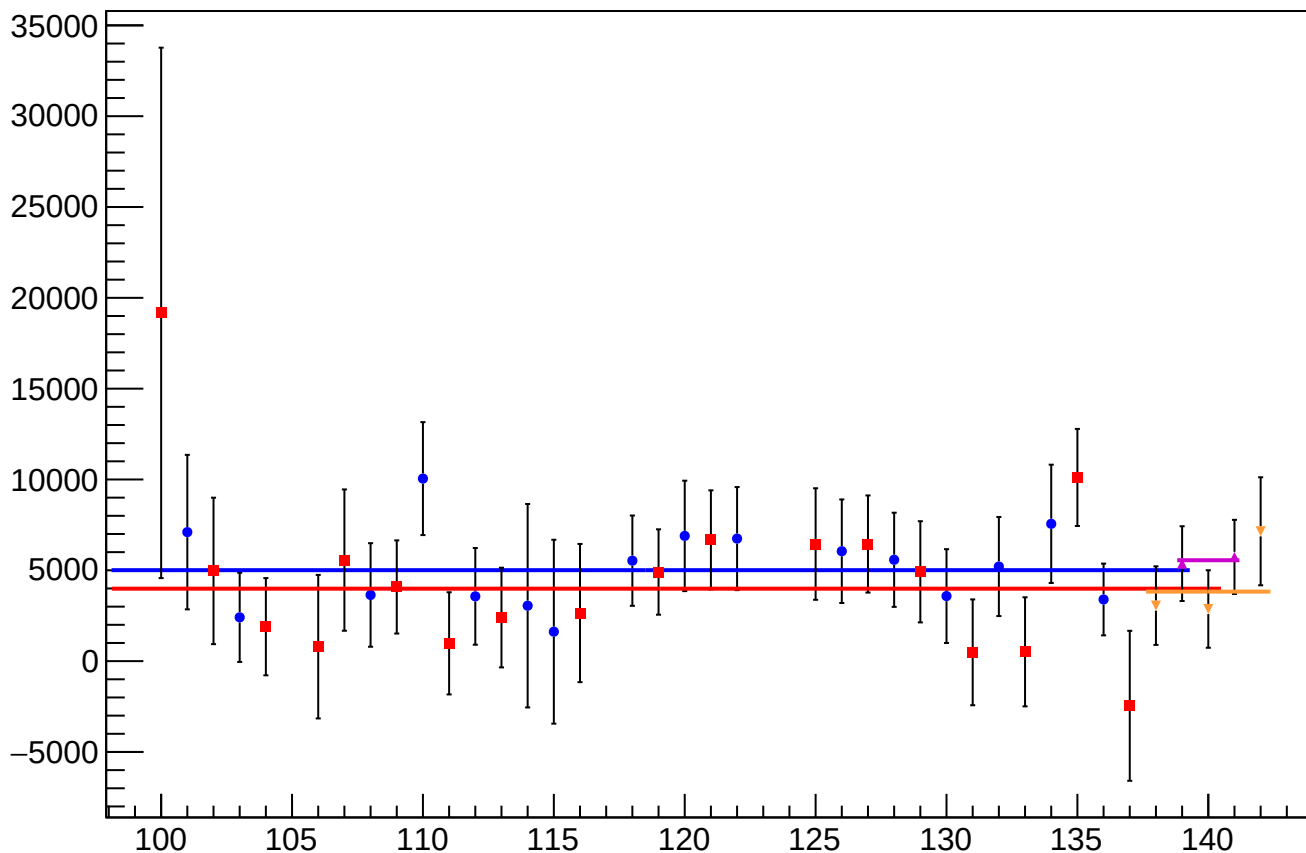
Right: 4380.692+/-0.865 χ^2/NDF : 2924858.4/33

In: 4698.846+/-1.169 χ^2/NDF : 1651760.1/17

Out: 4535.164+/-1.119 χ^2/NDF : 1867816.4/20

All: 4613.366+/-0.808 χ^2/NDF : 3529808.0/38

dit_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5007.315+/-714.061 χ^2/NDF : 7.7/15

Left Out: 3827.878+/-1352.486 χ^2/NDF : 1.6/2

Right Out: 3989.193+/-719.024 χ^2/NDF : 17.4/17

Left In: 5554.352+/-1449.157 χ^2/NDF : 0.0/1

Left: 4631.614+/-988.762 χ^2/NDF : 2.4/4

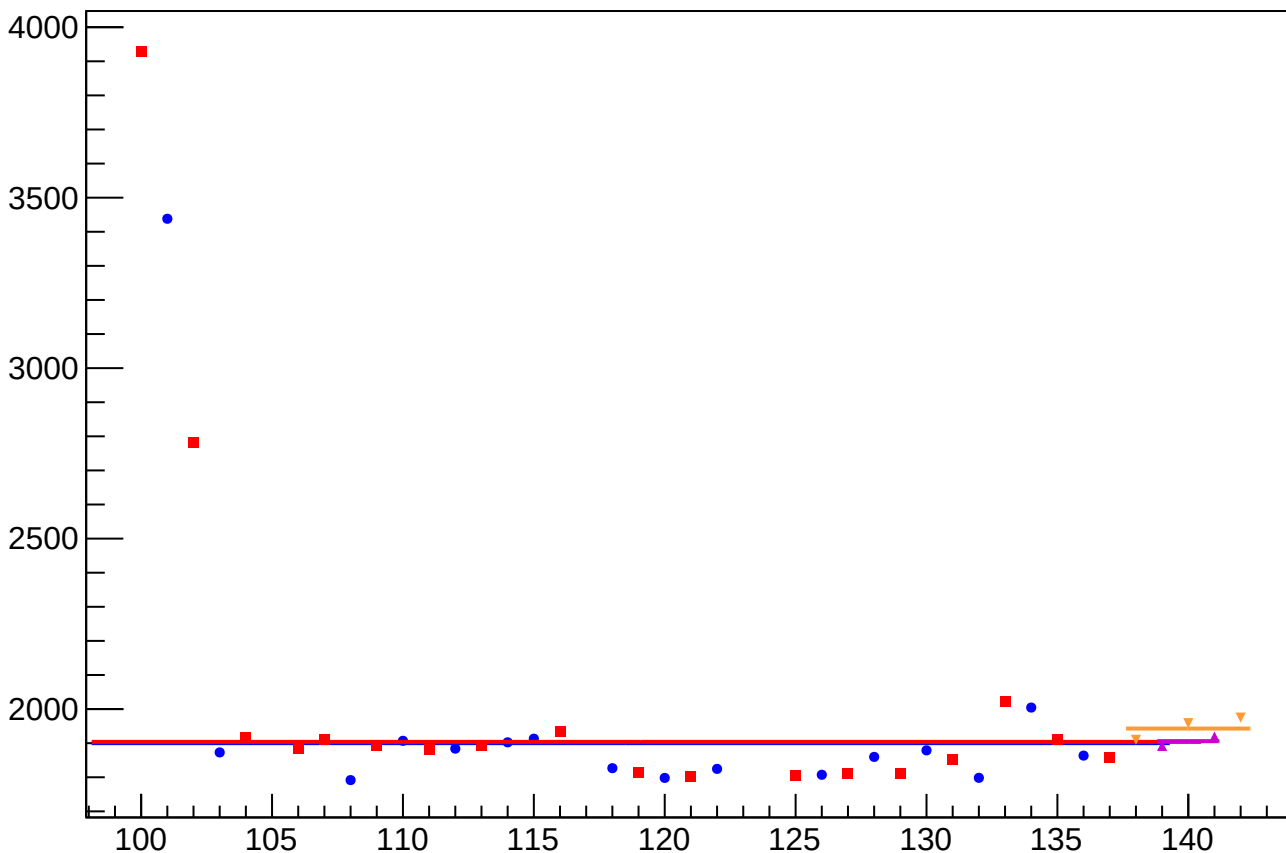
Right: 4501.780+/-506.663 χ^2/NDF : 26.0/33

In: 5114.185+/-640.524 χ^2/NDF : 7.8/17

Out: 3953.647+/-634.881 χ^2/NDF : 19.0/20

All: 4528.781+/-450.911 χ^2/NDF : 28.4/38

dit_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1900.111+/-0.505 χ^2/NDF : 278448.2/15

Left Out: 1942.941+/-0.956 χ^2/NDF : 807.7/2

Right Out: 1903.827+/-0.508 χ^2/NDF : 150115.8/17

Left In: 1905.912+/-1.025 χ^2/NDF : 181.5/1

Left: 1925.703+/-0.699 χ^2/NDF : 1687.2/4

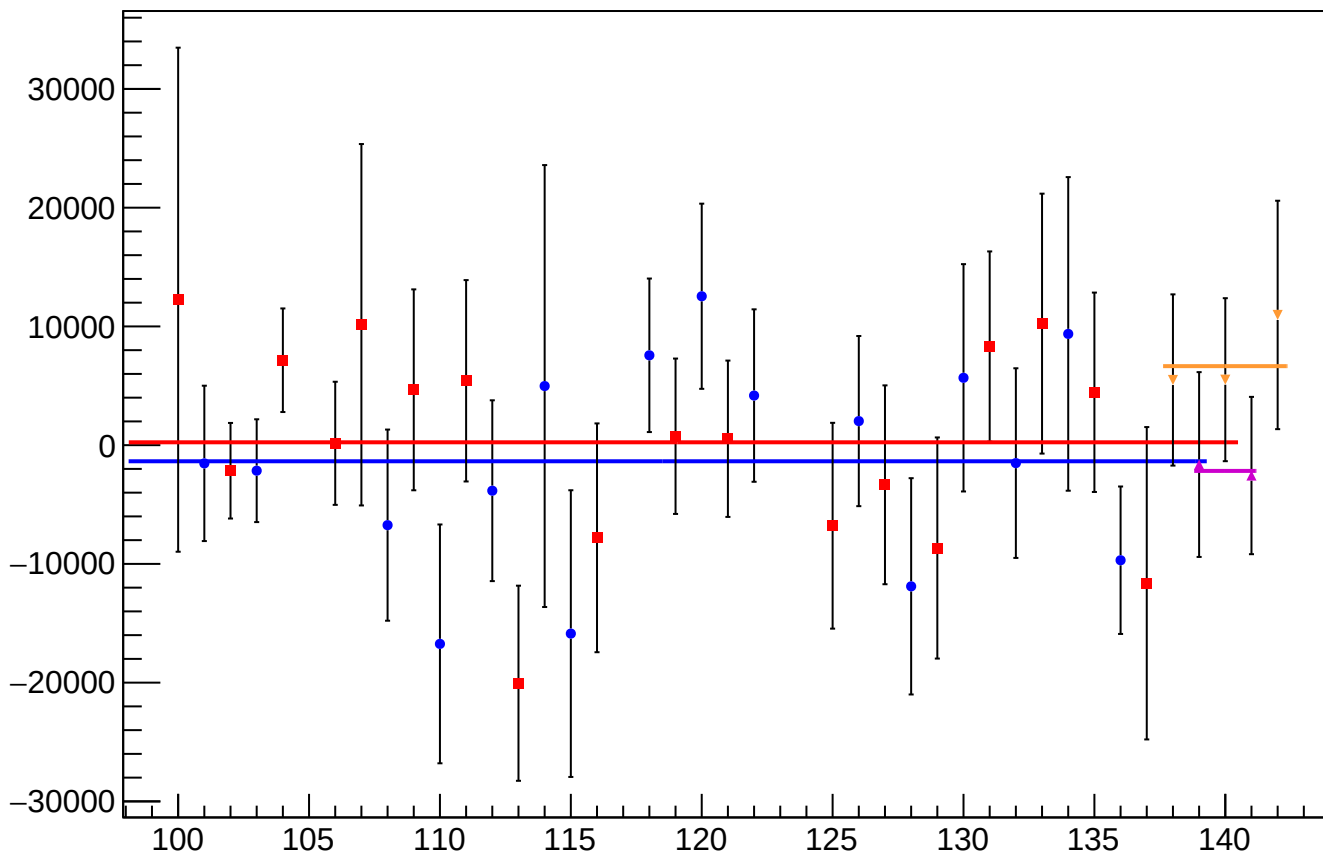
Right: 1901.958+/-0.358 χ^2/NDF : 428591.0/33

In: 1901.245+/-0.453 χ^2/NDF : 278655.5/17

Out: 1912.432+/-0.449 χ^2/NDF : 152228.3/20

All: 1906.892+/-0.319 χ^2/NDF : 431191.9/38

asym_us_avg_atlr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1356.615+/-1895.990 χ^2/NDF : 14.7/15

Left Out: 6654.386+/-4416.229 χ^2/NDF : 0.3/2

Right Out: 241.153+/-1712.681 χ^2/NDF : 15.7/17

Left In: -2168.976+/-5044.333 χ^2/NDF : 0.0/1

Left: 2825.933+/-3322.755 χ^2/NDF : 2.0/4

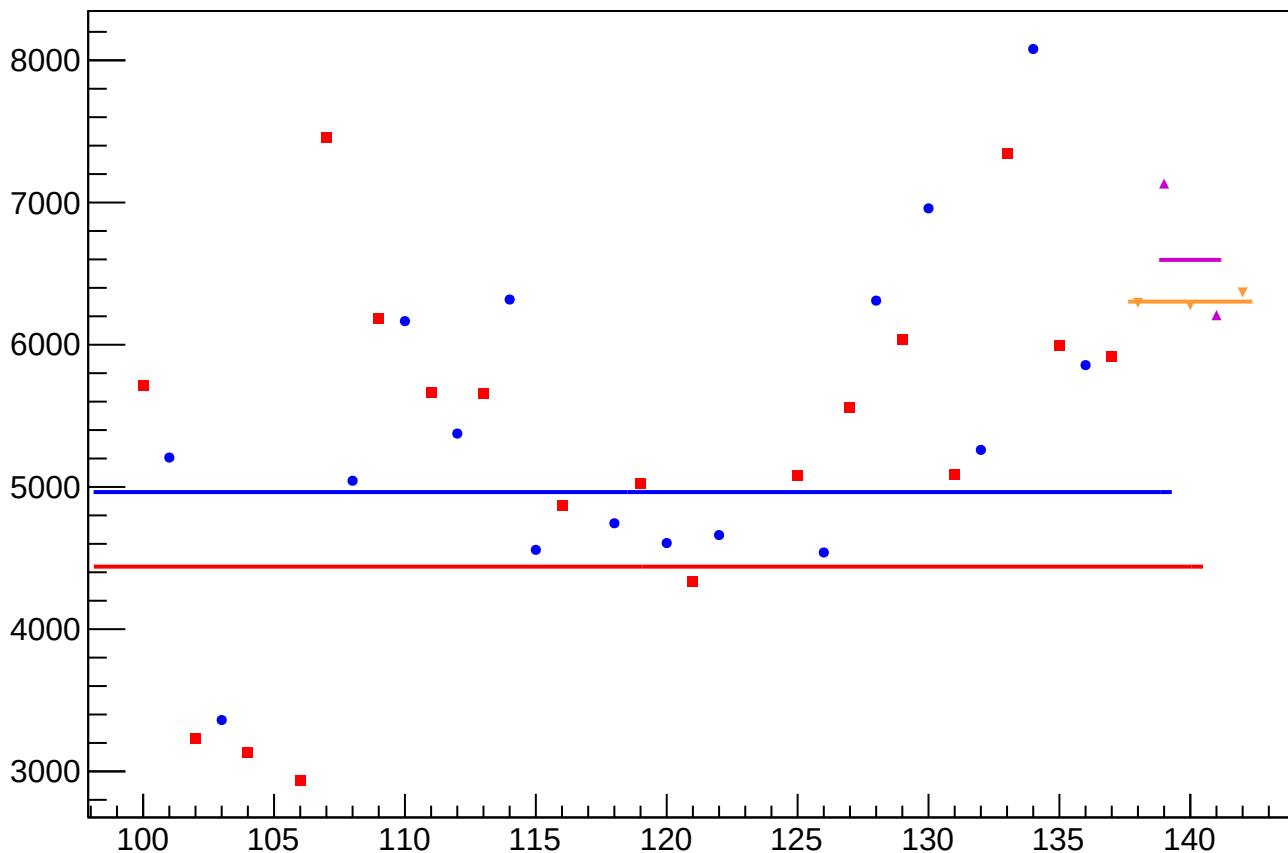
Right: -476.778+/-1270.927 χ^2/NDF : 30.8/33

In: -1457.174+/-1774.765 χ^2/NDF : 14.7/17

Out: 1079.604+/-1596.805 χ^2/NDF : 17.8/20

All: -55.259+/-1187.057 χ^2/NDF : 33.7/38

asym_us_avg_atlr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 4963.998 $\pm$ 1.341 χ^2 /NDF: 627377.0/15

Left Out: 6303.339 $\pm$ 3.123 χ^2 /NDF:117.7/2

Right Out: 4439.675 $\pm$ 1.211 χ^2 /NDF: 1158510.1/17

Left In: 6596.748 $\pm$ 3.567 χ^2 /NDF:16408.6/1

Left: 6430.649 $\pm$ 2.350 χ^2 /NDF: 20356.8/4

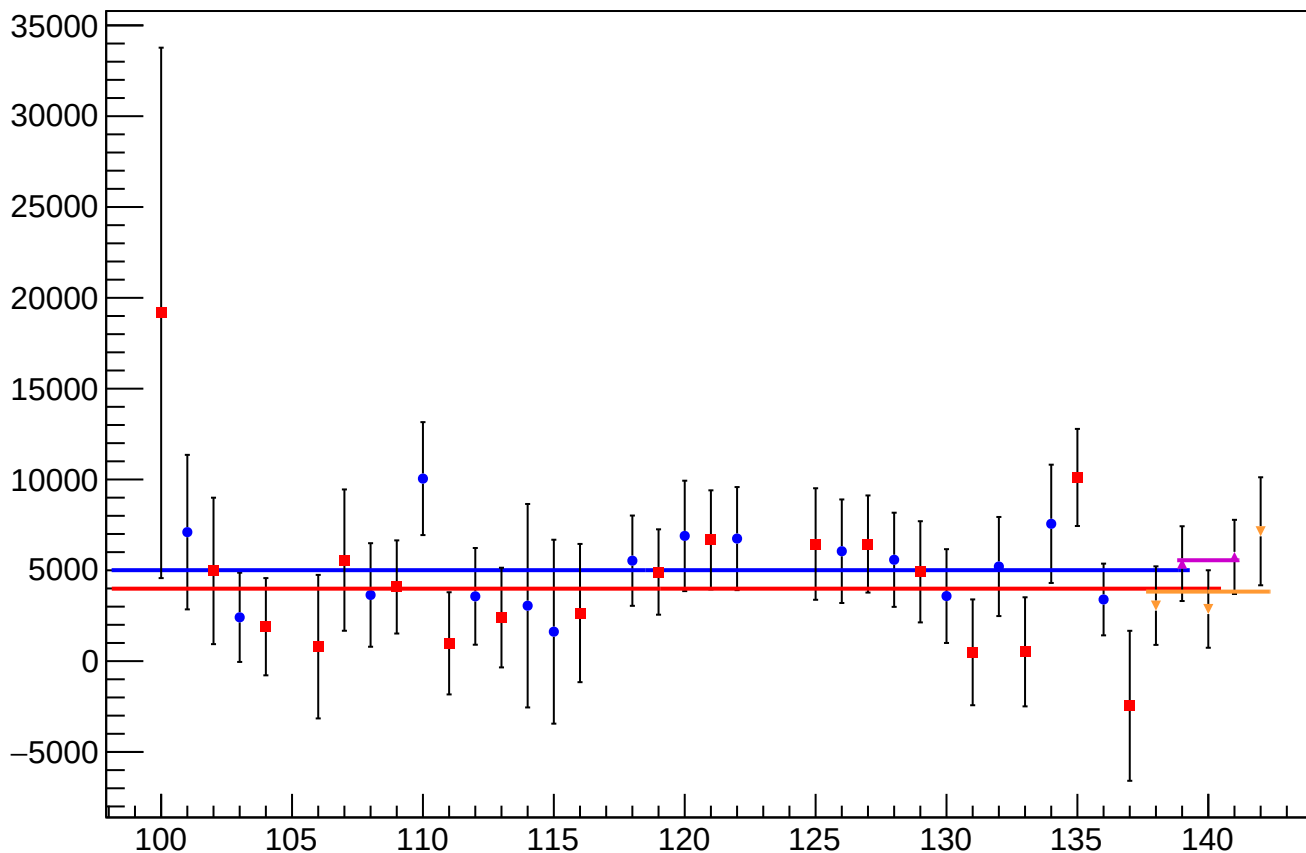
Right: 4675.271 $\pm$ 0.899 χ^2 /NDF: 1870112.9/33

In: 5166.111 $\pm$ 1.255 χ^2 /NDF:827385.0/17

Out: 4683.326 $\pm$ 1.129 χ^2 /NDF:1468236.5/20

All: 4899.306 $\pm$ 0.839 χ^2 /NDF: 2377410.6/38

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5007.314+/-714.061 χ^2/NDF : 7.7/15

Left Out: 3827.892+/-1352.487 χ^2/NDF :1.6/2

Right Out: 3989.192+/-719.024 χ^2/NDF : 17.4/17

Left In: 5554.336+/-1449.157 χ^2/NDF :0.0/1

Left: 4631.614+/-988.763 χ^2/NDF : 2.4/4

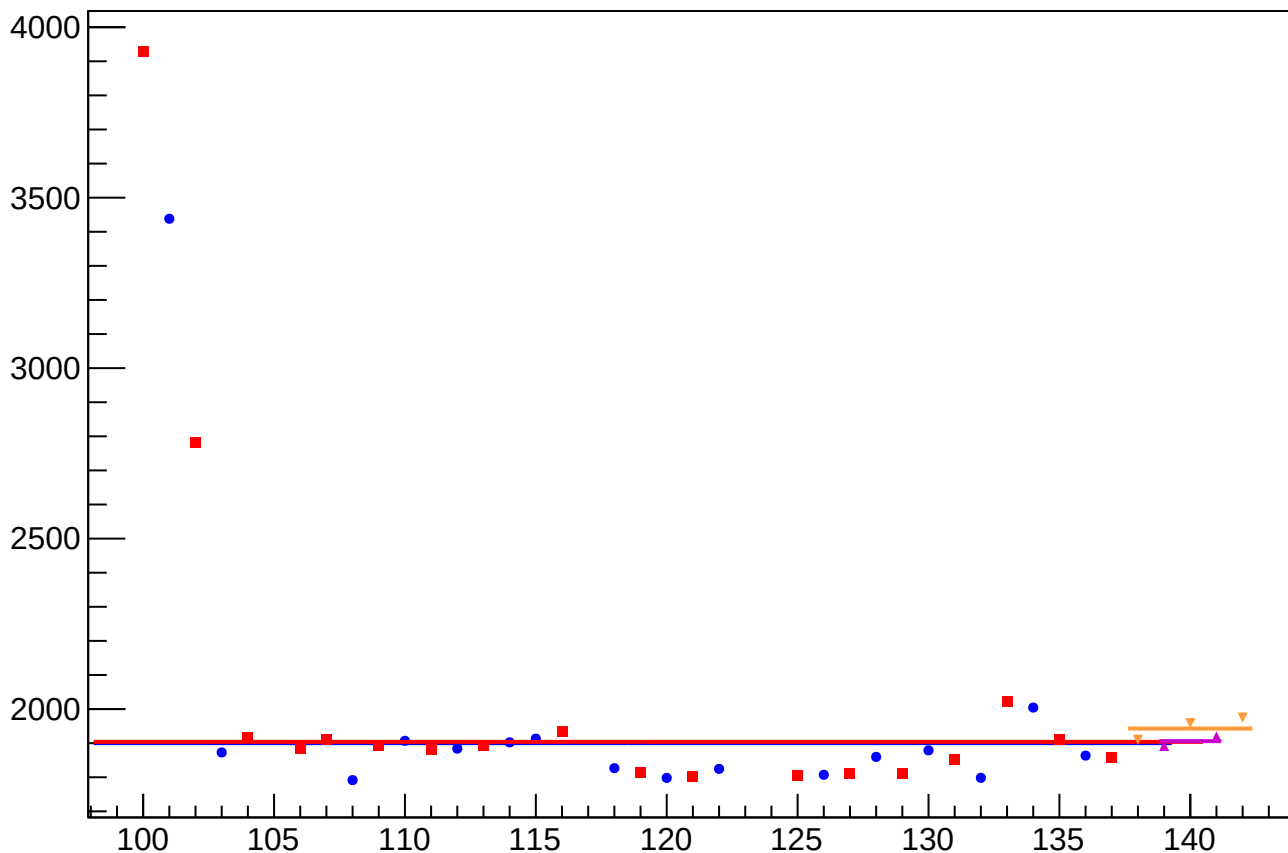
Right: 4501.779+/-506.663 χ^2/NDF : 26.0/33

In: 5114.181+/-640.524 χ^2/NDF :7.8/17

Out: 3953.649+/-634.881 χ^2/NDF :19.0/20

All: 4528.780+/-450.911 χ^2/NDF : 28.4/38

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1900.111+/-0.505 χ^2/NDF : 278448.5/15

Left Out: 1942.942+/-0.956 χ^2/NDF : 807.8/2

Right Out: 1903.826+/-0.508 χ^2/NDF : 150115.1/17

Left In: 1905.913+/-1.025 χ^2/NDF : 181.5/1

Left: 1925.704+/-0.699 χ^2/NDF : 1687.2/4

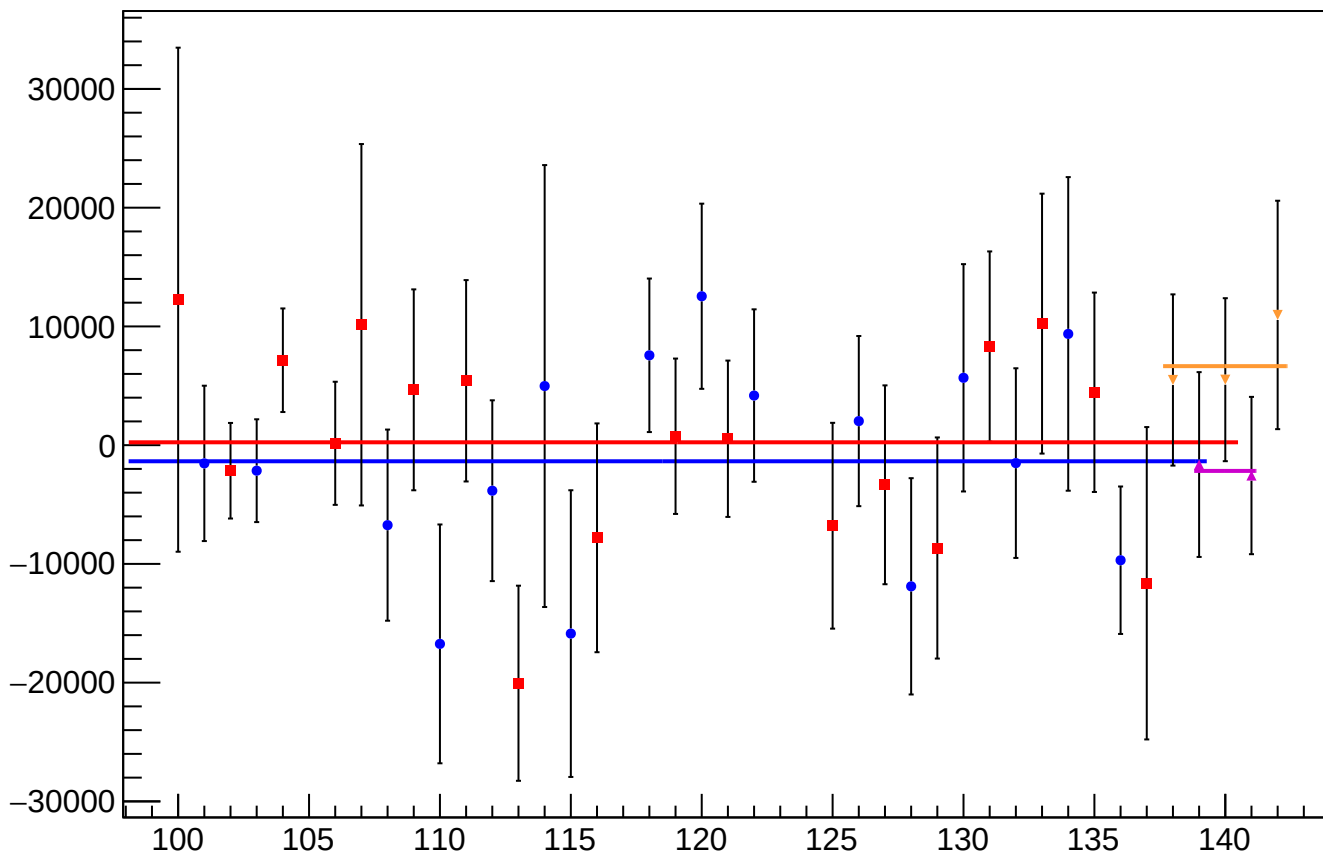
Right: 1901.958+/-0.358 χ^2/NDF : 428590.5/33

In: 1901.244+/-0.453 χ^2/NDF : 278655.8/17

Out: 1912.431+/-0.449 χ^2/NDF : 152227.8/20

All: 1906.892+/-0.319 χ^2/NDF : 431191.5/38

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1356.604 $\pm$ 1895.985 χ^2 /NDF: 14.7/15

Left Out: 6654.405 $\pm$ 4416.237 χ^2 /NDF:0.3/2

Right Out: 241.155 $\pm$ 1712.677 χ^2 /NDF: 15.7/17

Left In: -2168.990 $\pm$ 5044.342 χ^2 /NDF:0.0/1

Left: 2825.938 $\pm$ 3322.761 χ^2 /NDF: 2.0/4

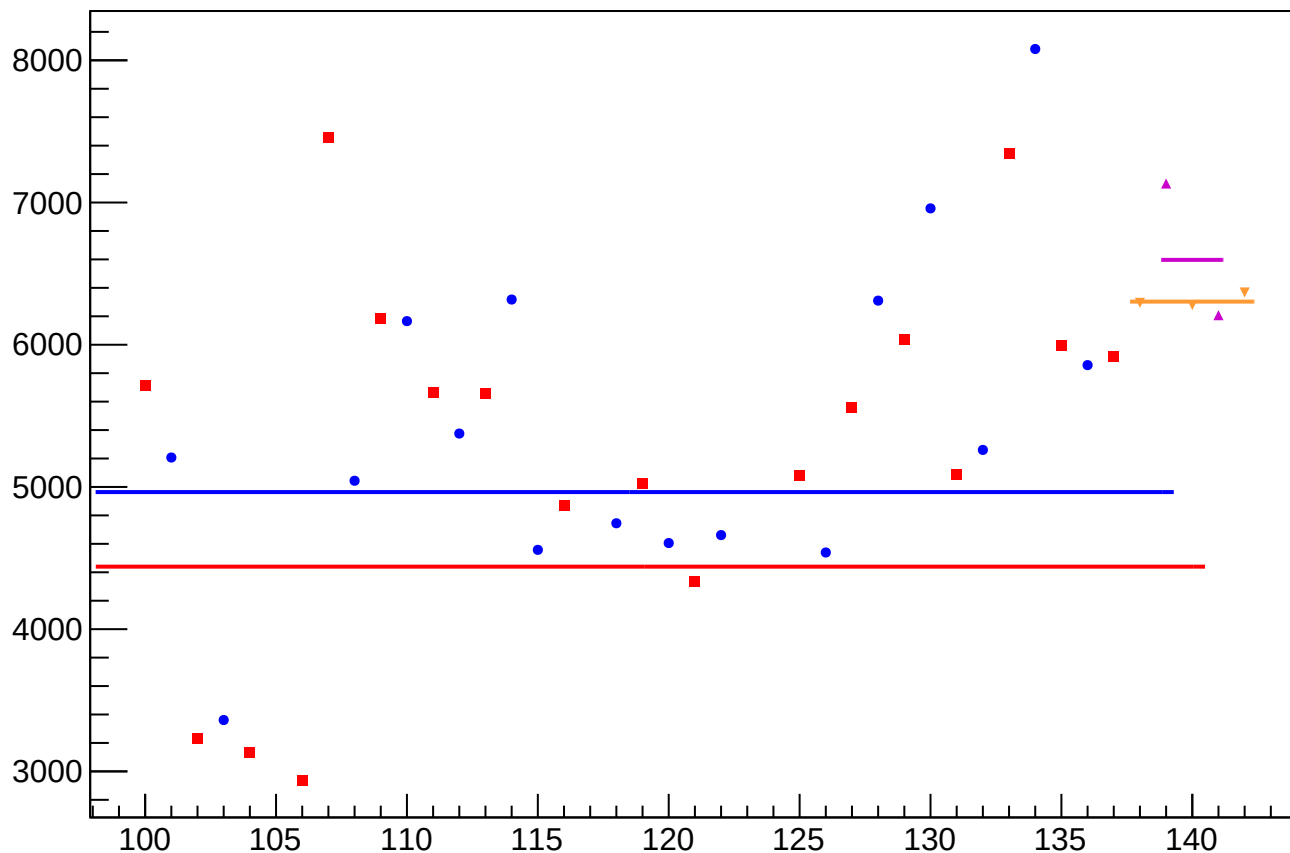
Right: -476.773 $\pm$ 1270.924 χ^2 /NDF: 30.8/33

In: -1457.166 $\pm$ 1774.762 χ^2 /NDF:14.7/17

Out: 1079.602 $\pm$ 1596.802 χ^2 /NDF:17.8/20

All: -55.257 $\pm$ 1187.054 χ^2 /NDF: 33.7/38

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 4963.985 $\pm$ 1.341 χ^2 /NDF: 627379.5/15

Left Out: 6303.350 $\pm$ 3.123 χ^2 /NDF:117.7/2

Right Out: 4439.663 $\pm$ 1.211 χ^2 /NDF: 1158509.7/17

Left In: 6596.758 $\pm$ 3.567 χ^2 /NDF:16409.0/1

Left: 6430.660 $\pm$ 2.350 χ^2 /NDF: 20357.2/4

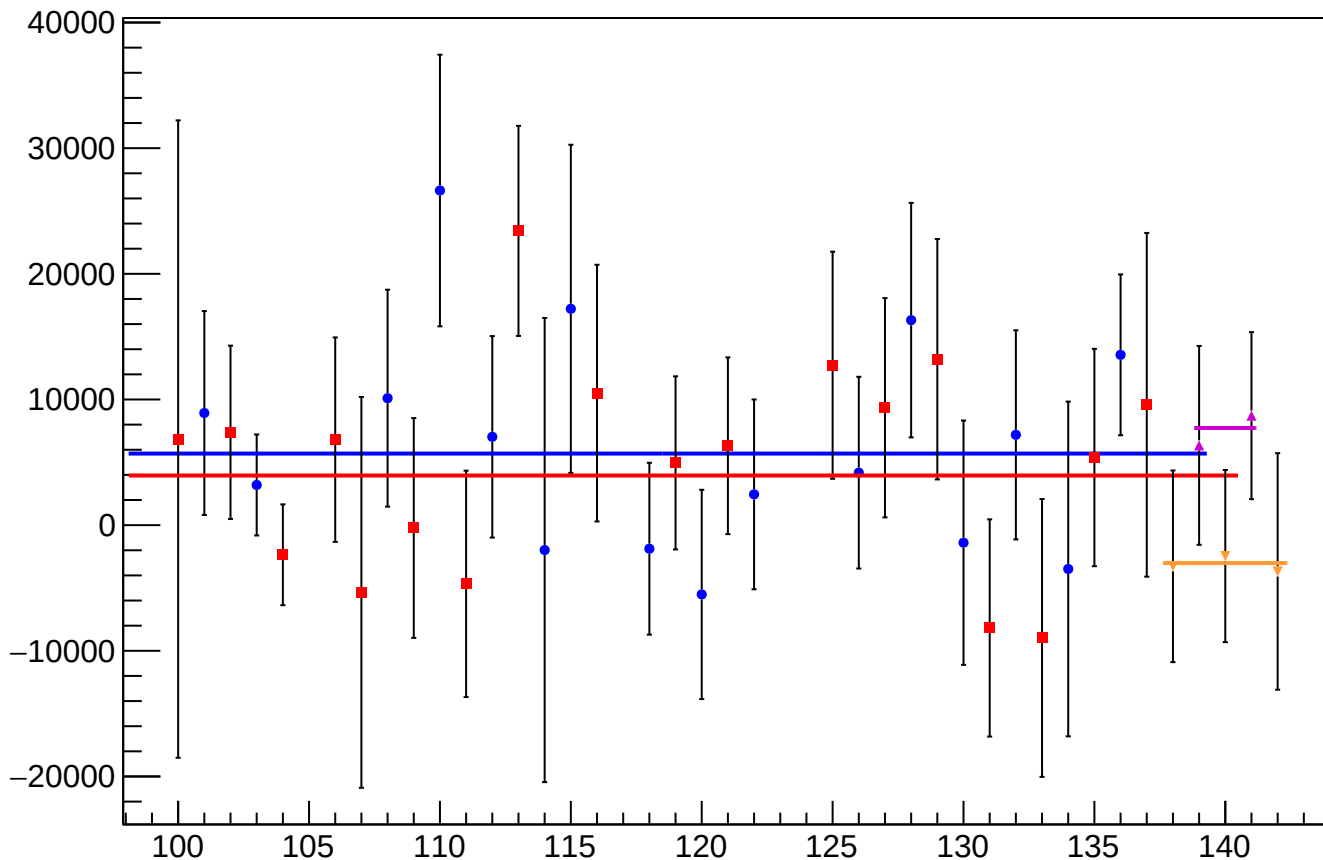
Right: 4675.259 $\pm$ 0.899 χ^2 /NDF: 1870114.9/33

In: 5166.099 $\pm$ 1.255 χ^2 /NDF:827392.7/17

Out: 4683.315 $\pm$ 1.129 χ^2 /NDF:1468242.8/20

All: 4899.296 $\pm$ 0.839 χ^2 /NDF: 2377424.5/38

asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5697.218+/-1959.214 χ^2/NDF : 12.6/15

Left Out: -3018.861+/-4481.204 χ^2/NDF : 0.0/2

Right Out: 3949.394+/-1920.582 χ^2/NDF : 16.1/17

Left In: 7734.199+/-5089.884 χ^2/NDF : 0.1/1

Left: 1676.576+/-3363.410 χ^2/NDF : 2.6/4

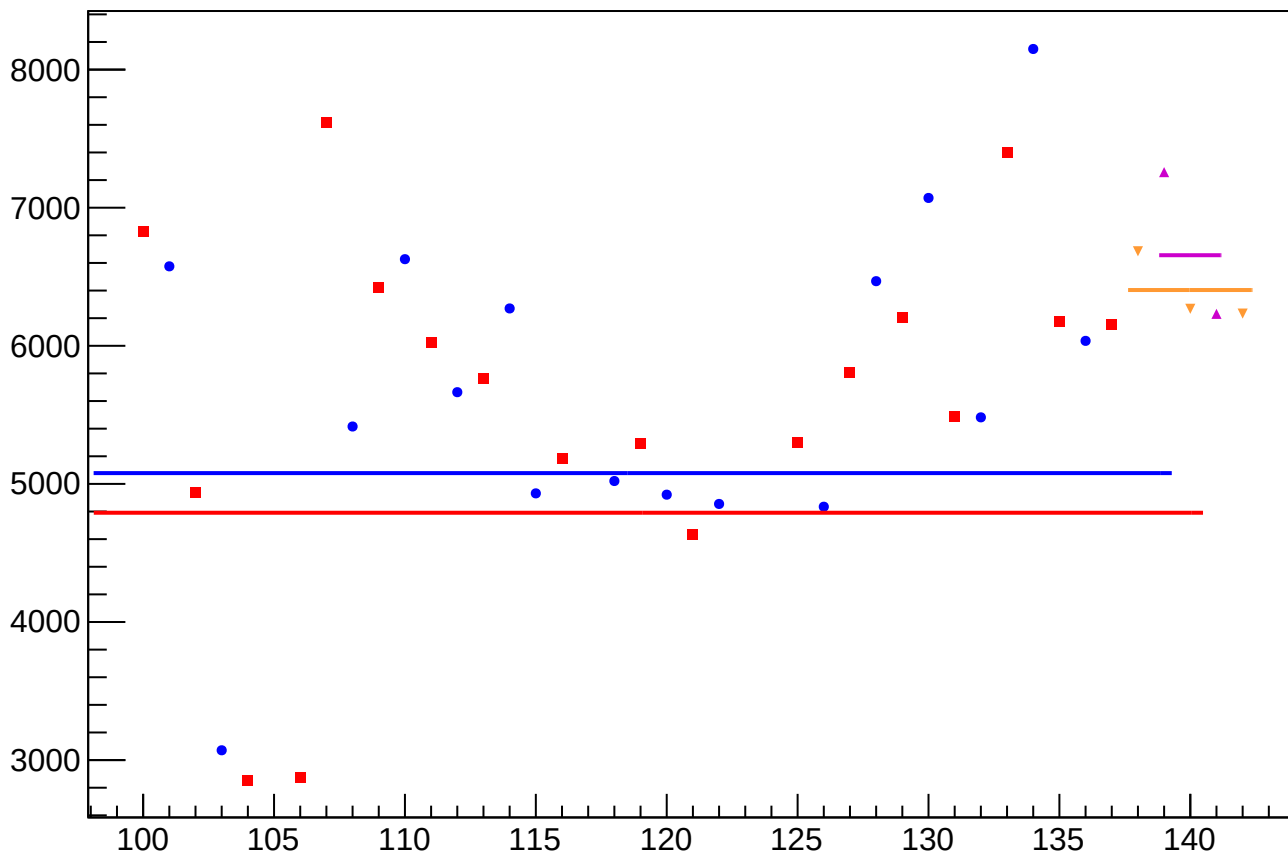
Right: 4805.905+/-1371.511 χ^2/NDF : 29.2/33

In: 5960.082+/-1828.435 χ^2/NDF : 12.8/17

Out: 2868.050+/-1765.284 χ^2/NDF : 18.2/20

All: 4359.748+/-1269.983 χ^2/NDF : 32.5/38

asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 5078.157+/-1.385 χ^2/NDF : 919209.4/15

Left Out: 6403.904+/-3.169 χ^2/NDF :4150.1/2

Right Out: 4791.154+/-1.331 χ^2/NDF : 1162455.3/17

Left In: 6655.970+/-3.599 χ^2/NDF :19715.3/1

Left: 6513.971+/-2.378 χ^2/NDF : 26628.7/4

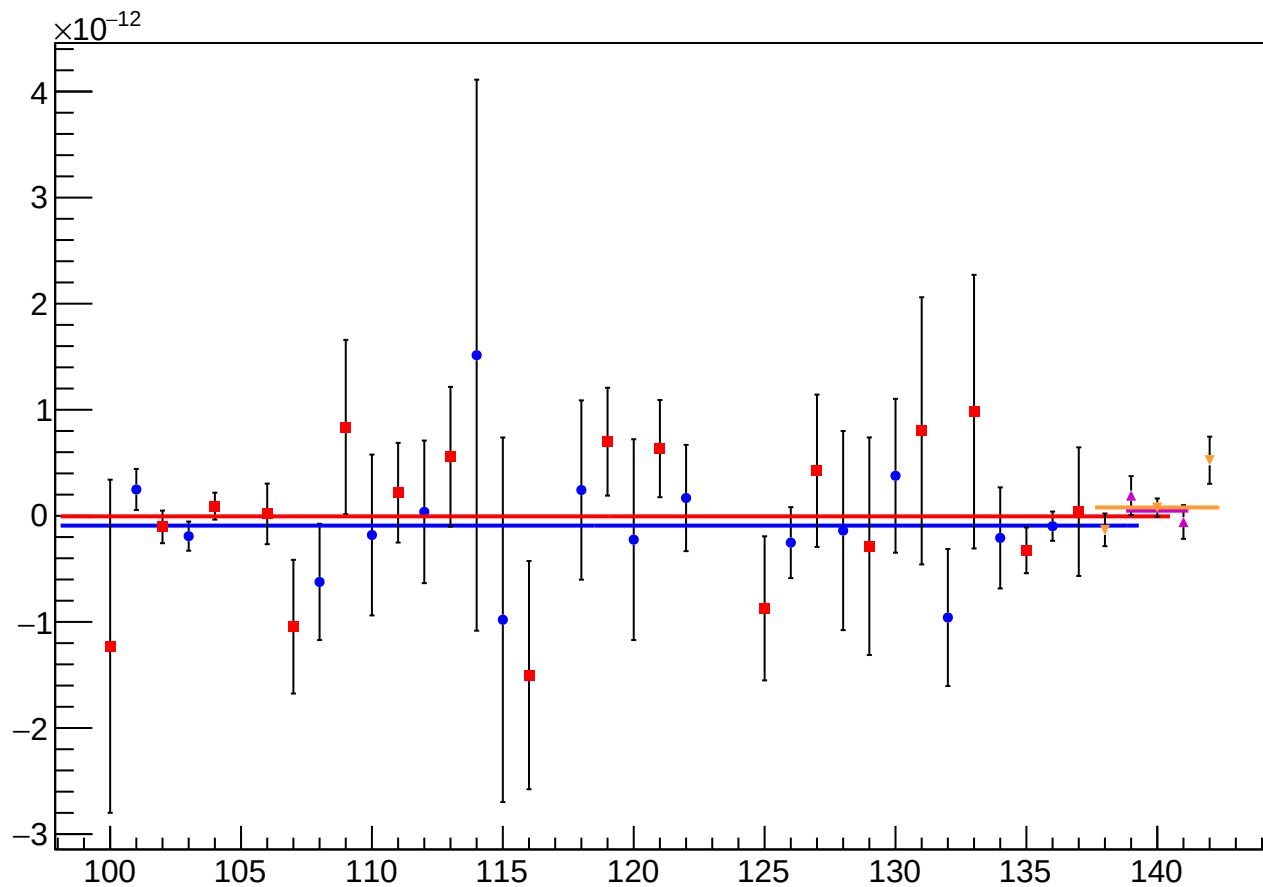
Right: 4928.883+/-0.960 χ^2/NDF : 2103987.6/33

In: 5281.761+/-1.293 χ^2/NDF :1106312.1/17

Out: 5032.939+/-1.227 χ^2/NDF :1386813.7/20

All: 5150.840+/-0.890 χ^2/NDF : 2512614.5/38

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 8.2/15

Left Out: 0.000+/-0.000 χ^2/NDF :5.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 17.4/17

Left In: 0.000+/-0.000 χ^2/NDF :1.1/1

Left: 0.000+/-0.000 χ^2/NDF : 7.0/4

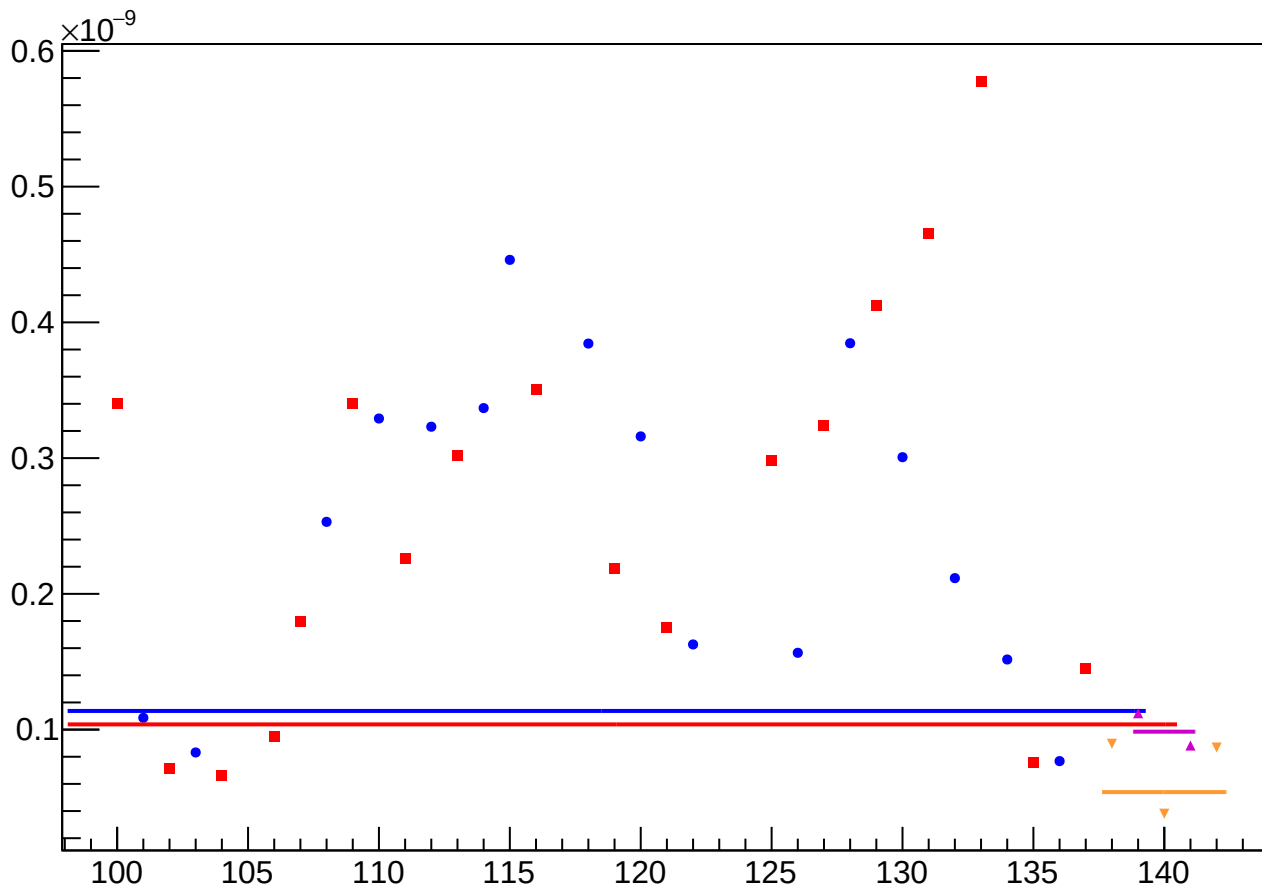
Right: -0.000+/-0.000 χ^2/NDF : 26.2/33

In: -0.000+/-0.000 χ^2/NDF :10.2/17

Out: 0.000+/-0.000 χ^2/NDF :23.9/20

All: 0.000+/-0.000 χ^2/NDF : 35.3/38

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1524807.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 219358.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2087534.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 19209.6/1

Left: 0.000+/-0.000 χ^2/NDF : 442072.2/4

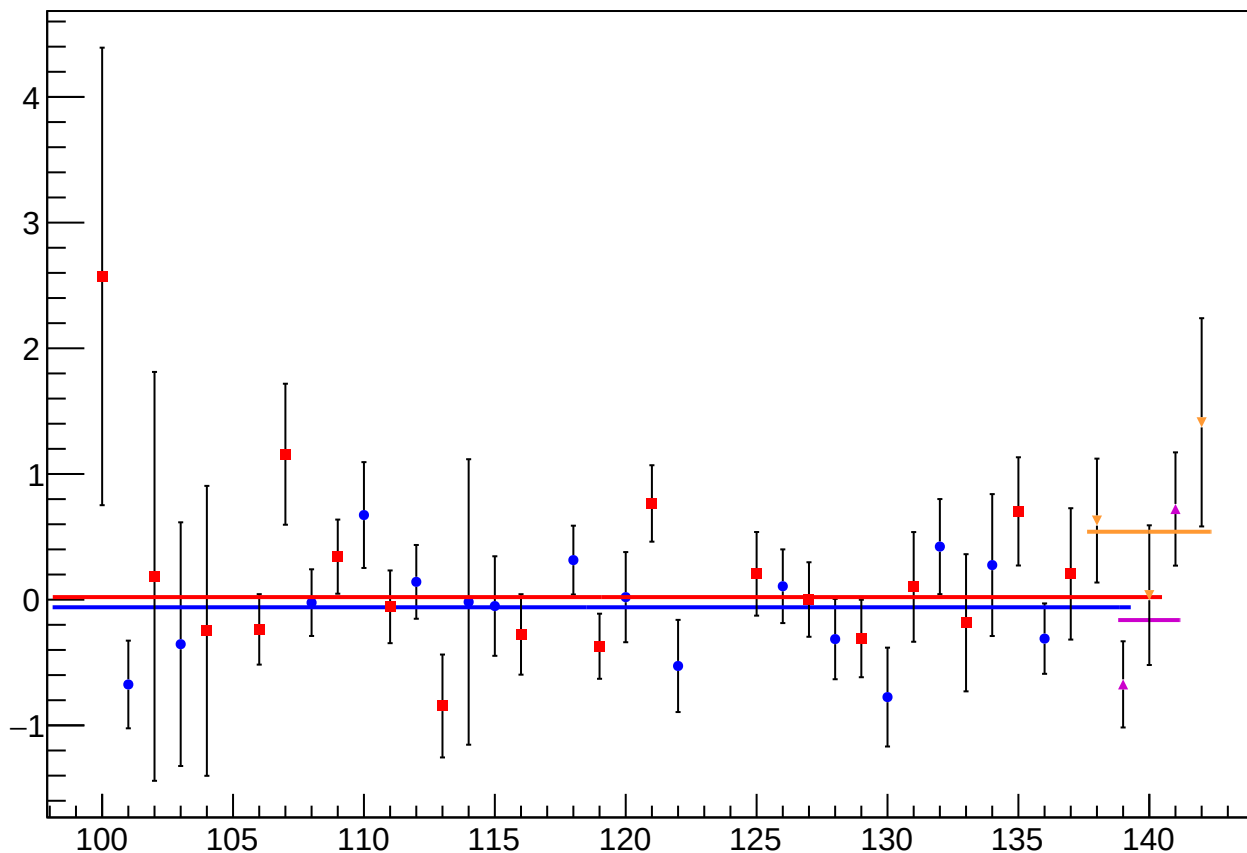
Right: 0.000+/-0.000 χ^2/NDF : 3628704.5/33

In: 0.000+/-0.000 χ^2/NDF : 1566826.5/17

Out: 0.000+/-0.000 χ^2/NDF : 2759378.5/20

All: 0.000+/-0.000 χ^2/NDF : 4626320.9/38

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.089 χ^2/NDF : 17.3/15

Left Out: 0.541 ± 0.337 χ^2/NDF : 2.0/2

Right Out: 0.020 ± 0.087 χ^2/NDF : 26.1/17

Left In: -0.162 ± 0.273 χ^2/NDF : 6.1/1

Left: 0.116 ± 0.212 χ^2/NDF : 10.7/4

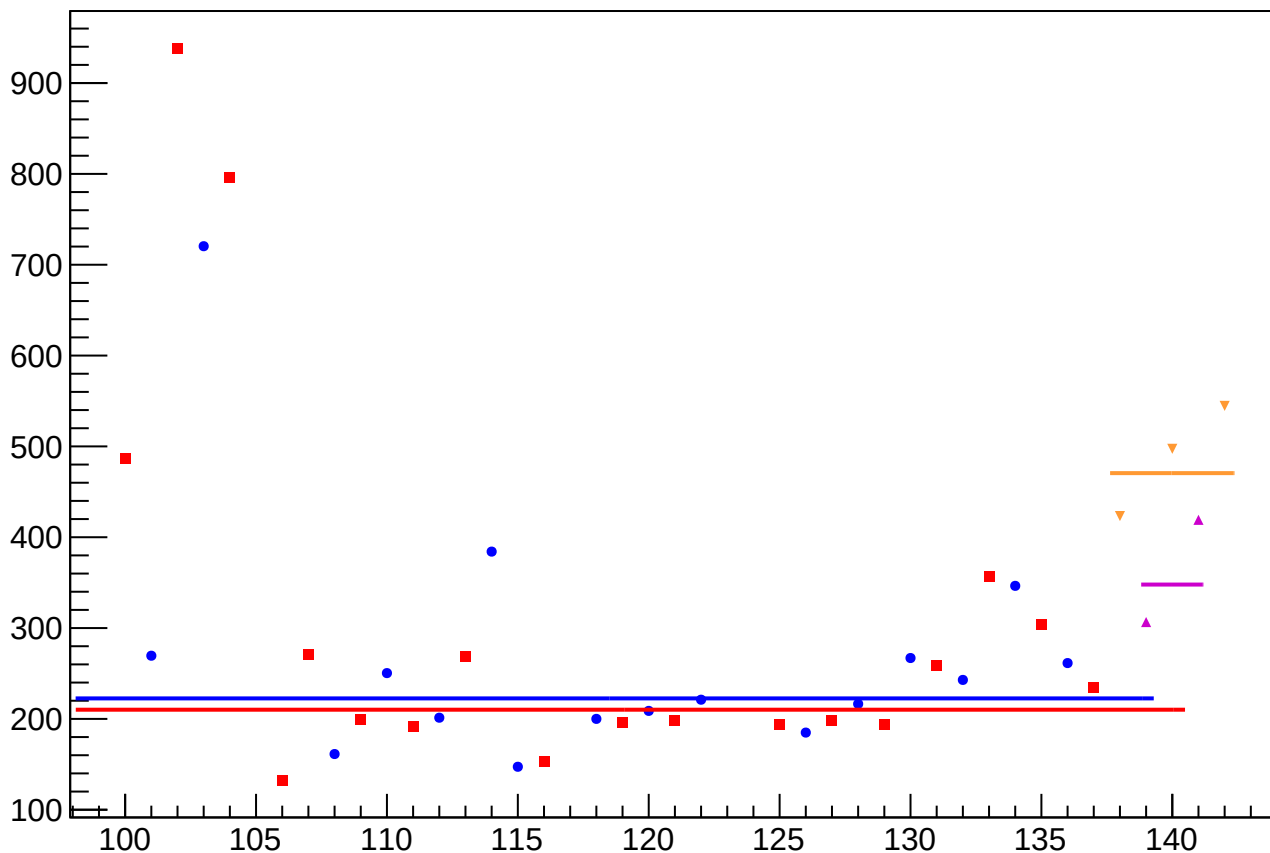
Right: -0.019 ± 0.062 χ^2/NDF : 43.9/33

In: -0.070 ± 0.084 χ^2/NDF : 23.5/17

Out: 0.053 ± 0.085 χ^2/NDF : 30.3/20

All: -0.009 ± 0.060 χ^2/NDF : 54.9/38

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.569+/-0.063 χ^2/NDF : 1018774.9/15

Left Out: 470.577+/-0.238 χ^2/NDF : 38999.5/2

Right Out: 210.123+/-0.062 χ^2/NDF : 1548526.4/17

Left In: 347.896+/-0.193 χ^2/NDF : 79019.5/1

Left: 396.497+/-0.150 χ^2/NDF : 278181.2/4

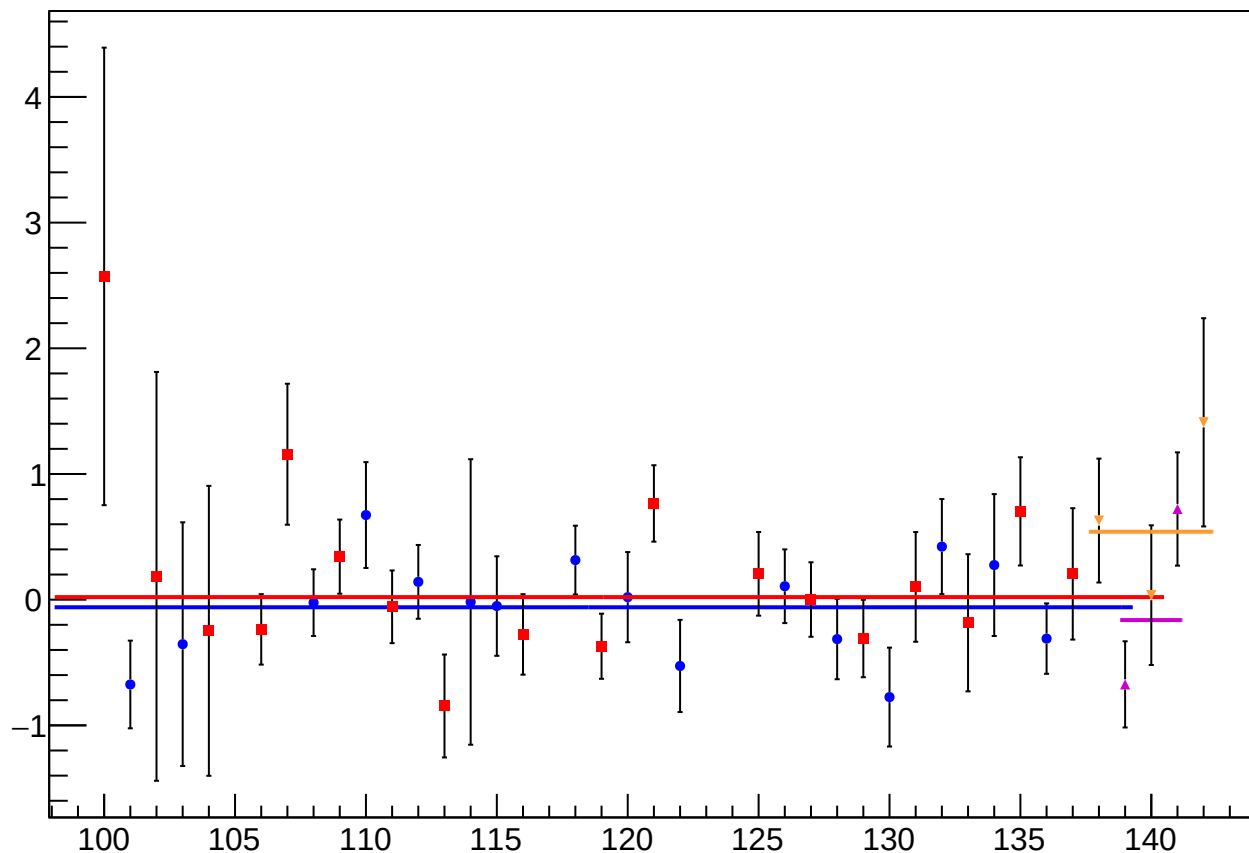
Right: 216.259+/-0.044 χ^2/NDF : 2587282.3/33

In: 234.536+/-0.060 χ^2/NDF : 1479422.8/17

Out: 226.559+/-0.060 χ^2/NDF : 2707565.3/20

All: 230.562+/-0.042 χ^2/NDF : 4195906.9/38

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.089 $\chi^2/\text{NDF}: 17.3/15$

Left Out: 0.541 ± 0.337 $\chi^2/\text{NDF}: 2.0/2$

Right Out: 0.020 ± 0.087 $\chi^2/\text{NDF}: 26.1/17$

Left In: -0.162 ± 0.273 $\chi^2/\text{NDF}: 6.1/1$

Left: 0.116 ± 0.212 $\chi^2/\text{NDF}: 10.7/4$

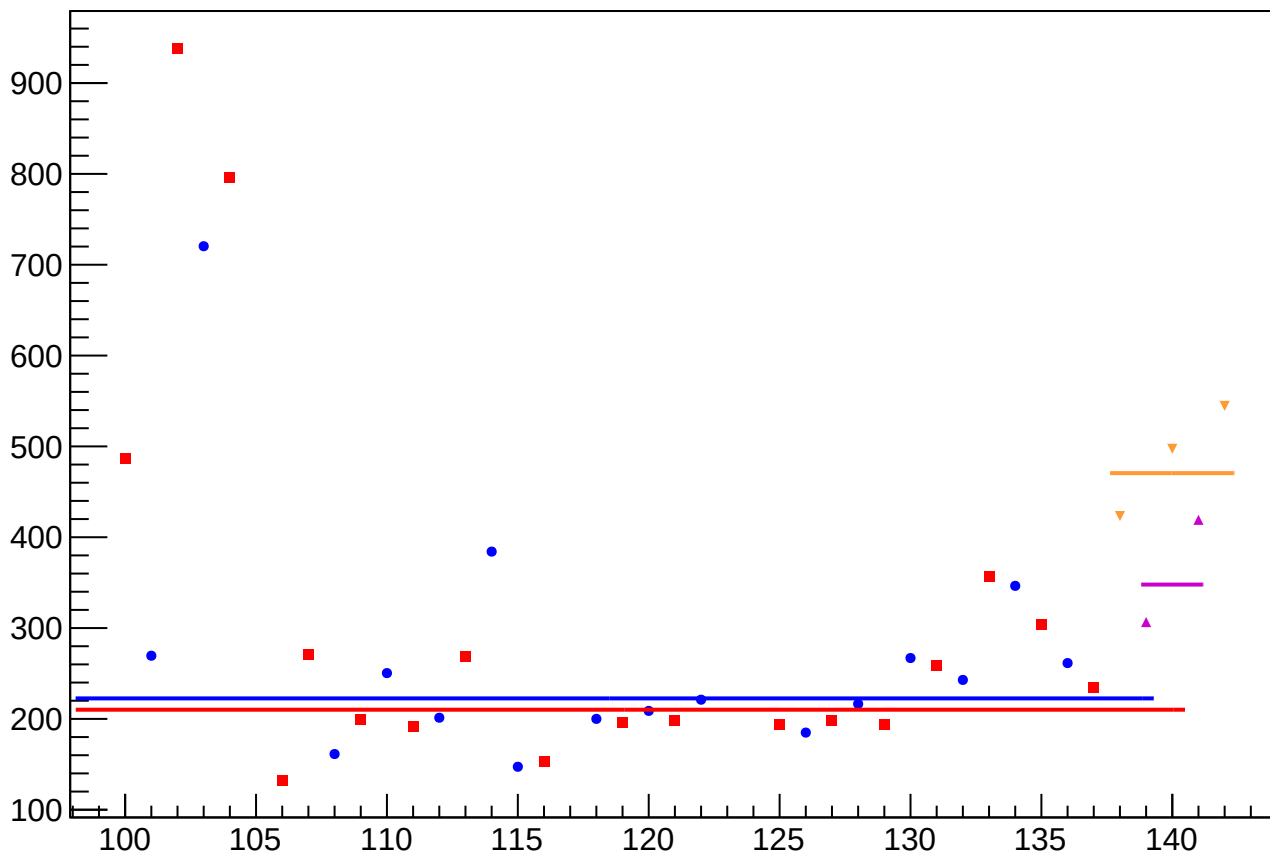
Right: -0.019 ± 0.062 $\chi^2/\text{NDF}: 43.9/33$

In: -0.070 ± 0.084 $\chi^2/\text{NDF}: 23.5/17$

Out: 0.053 ± 0.085 $\chi^2/\text{NDF}: 30.3/20$

All: -0.009 ± 0.060 $\chi^2/\text{NDF}: 54.9/38$

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.569+/-0.063 χ^2/NDF : 1018774.9/15

Left Out: 470.577+/-0.238 χ^2/NDF : 38999.5/2

Right Out: 210.123+/-0.062 χ^2/NDF : 1548526.4/17

Left In: 347.896+/-0.193 χ^2/NDF : 79019.5/1

Left: 396.497+/-0.150 χ^2/NDF : 278181.2/4

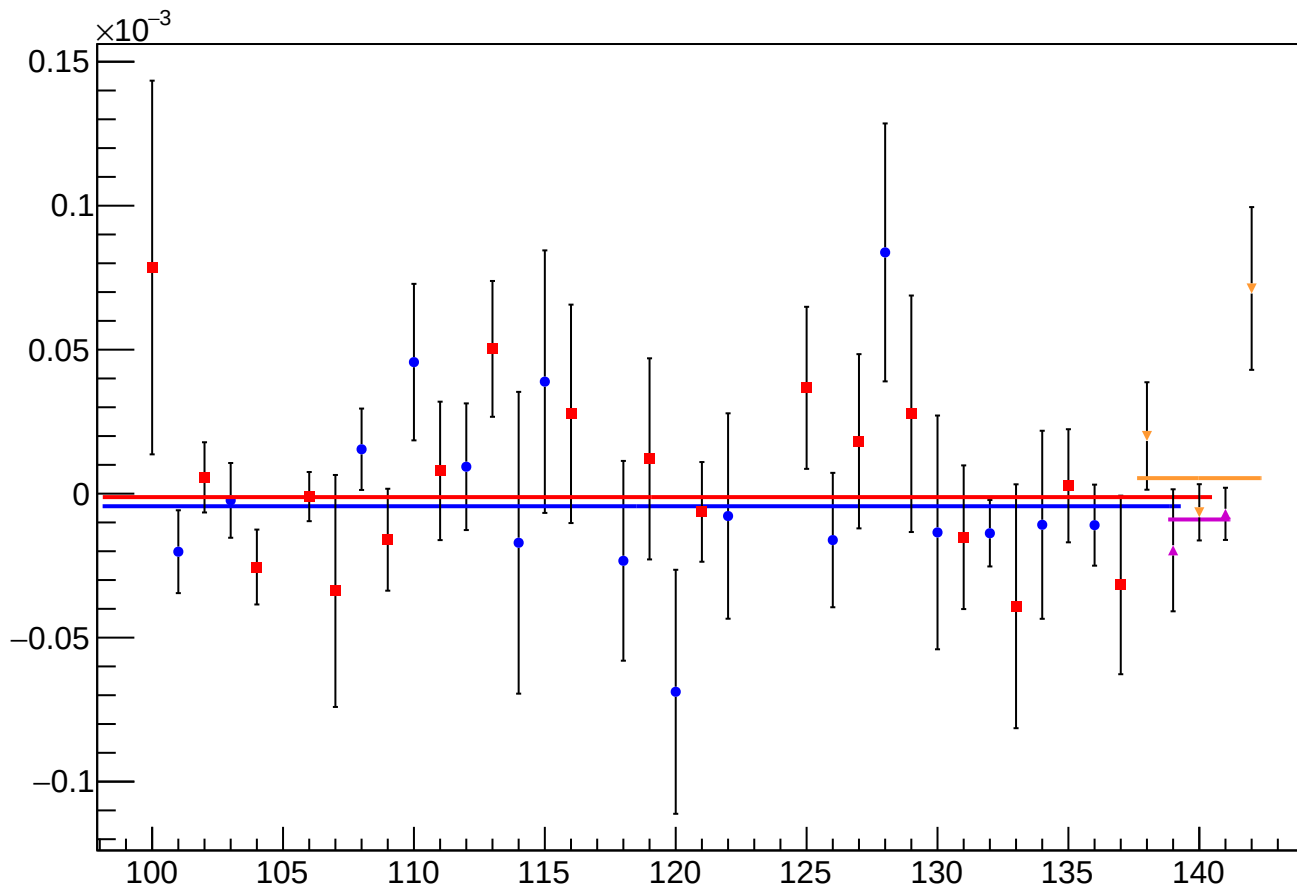
Right: 216.259+/-0.044 χ^2/NDF : 2587282.3/33

In: 234.536+/-0.060 χ^2/NDF : 1479422.8/17

Out: 226.559+/-0.060 χ^2/NDF : 2707565.3/20

All: 230.562+/-0.042 χ^2/NDF : 4195906.9/38

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.6/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 7.5/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 17.2/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF: 0.3/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 9.3/4

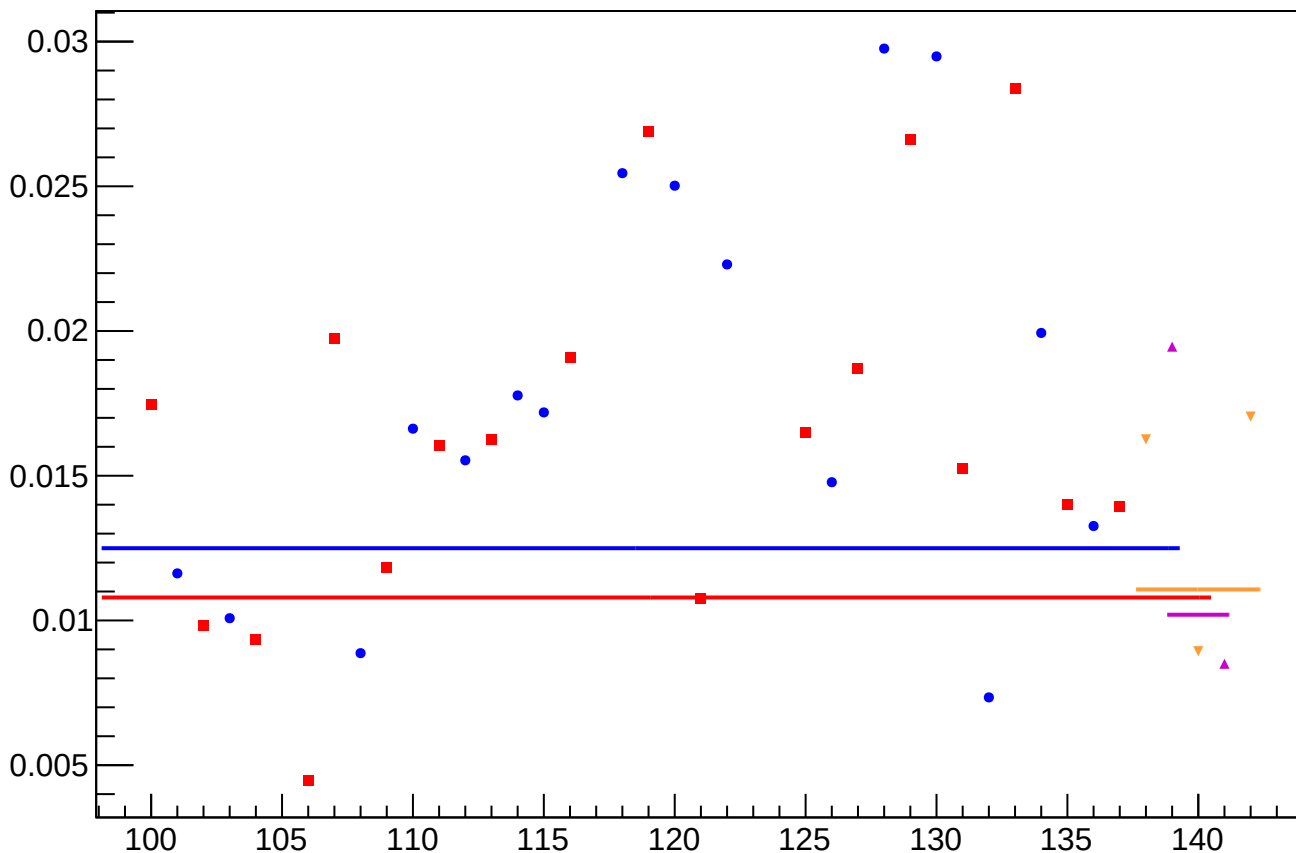
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 33.1/33

In: -0.000 $\pm$ 0.000 χ^2 /NDF: 16.2/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 25.2/20

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 42.4/38

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2114968.1/15

Left Out: 0.011+/-0.000 χ^2/NDF : 339312.1/2

Right Out: 0.011+/-0.000 χ^2/NDF : 2987826.3/17

Left In: 0.010+/-0.000 χ^2/NDF : 452198.9/1

Left: 0.011+/-0.000 χ^2/NDF : 802569.1/4

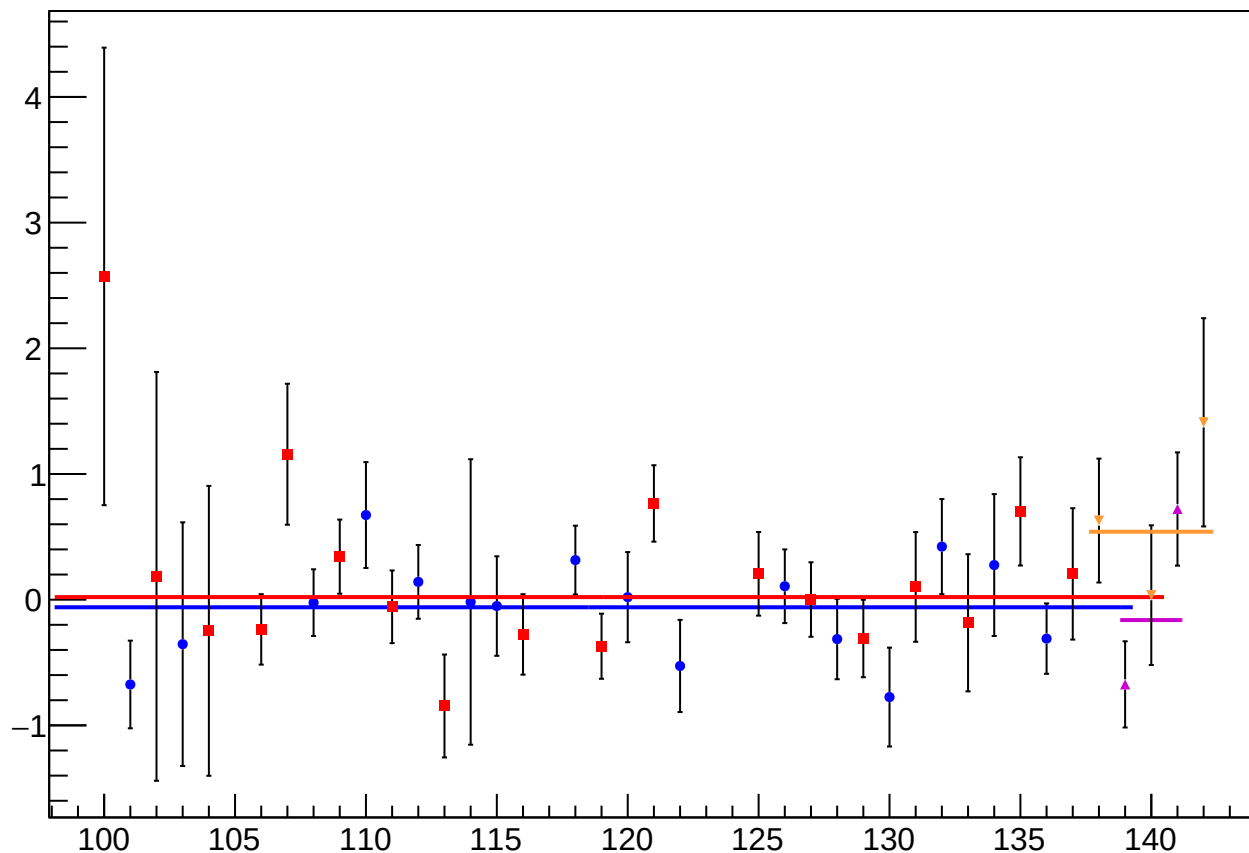
Right: 0.012+/-0.000 χ^2/NDF : 5226474.2/33

In: 0.012+/-0.000 χ^2/NDF : 2678098.0/17

Out: 0.011+/-0.000 χ^2/NDF : 3328859.7/20

All: 0.011+/-0.000 χ^2/NDF : 6065786.1/38

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.089 $\chi^2/\text{NDF}: 17.3/15$

Left Out: 0.541 ± 0.337 $\chi^2/\text{NDF}: 2.0/2$

Right Out: 0.020 ± 0.087 $\chi^2/\text{NDF}: 26.1/17$

Left In: -0.162 ± 0.273 $\chi^2/\text{NDF}: 6.1/1$

Left: 0.116 ± 0.212 $\chi^2/\text{NDF}: 10.7/4$

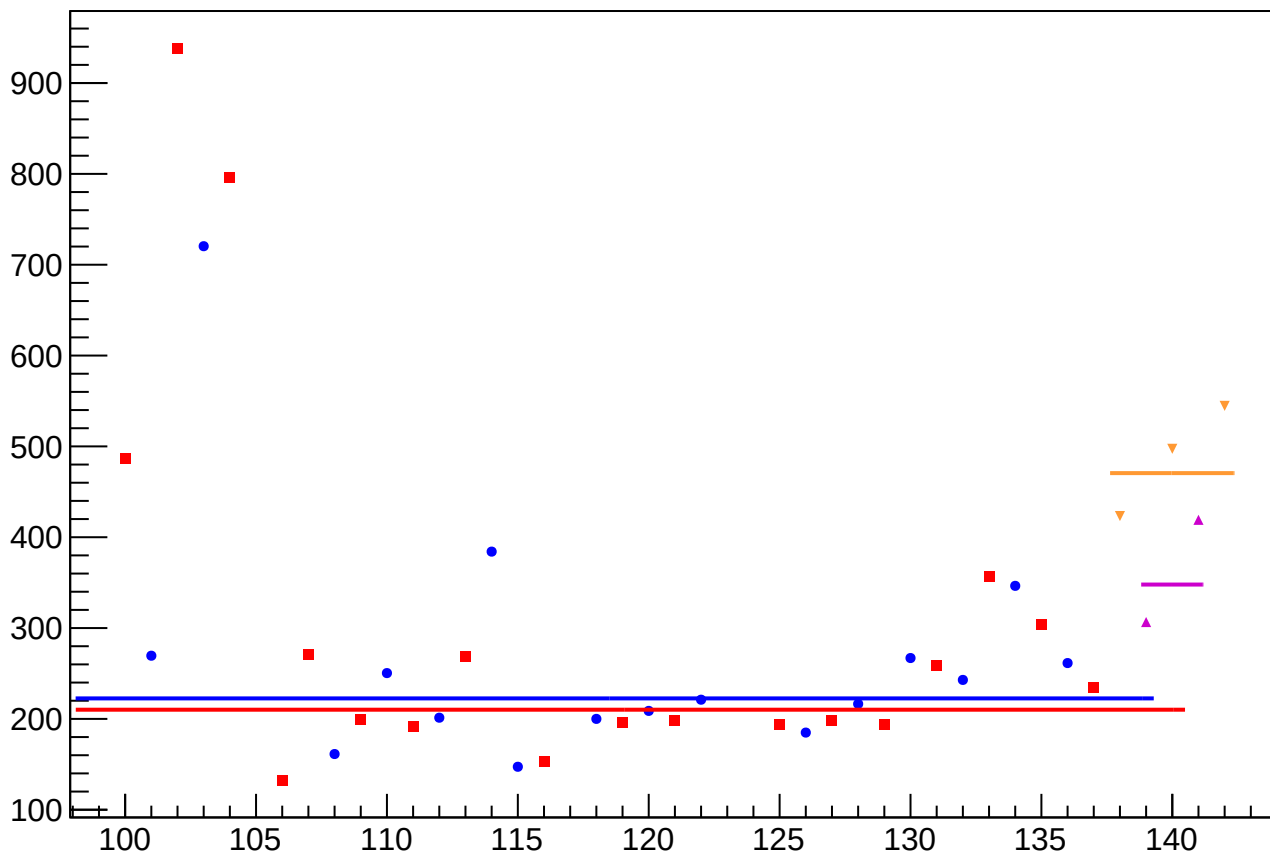
Right: -0.019 ± 0.062 $\chi^2/\text{NDF}: 43.9/33$

In: -0.070 ± 0.084 $\chi^2/\text{NDF}: 23.5/17$

Out: 0.053 ± 0.085 $\chi^2/\text{NDF}: 30.3/20$

All: -0.009 ± 0.060 $\chi^2/\text{NDF}: 54.9/38$

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.567+/-0.063 χ^2/NDF : 1018760.3/15

Left Out: 470.581+/-0.238 χ^2/NDF : 39000.3/2

Right Out: 210.120+/-0.062 χ^2/NDF : 1548507.5/17

Left In: 347.902+/-0.193 χ^2/NDF : 79010.5/1

Left: 396.503+/-0.150 χ^2/NDF : 278162.5/4

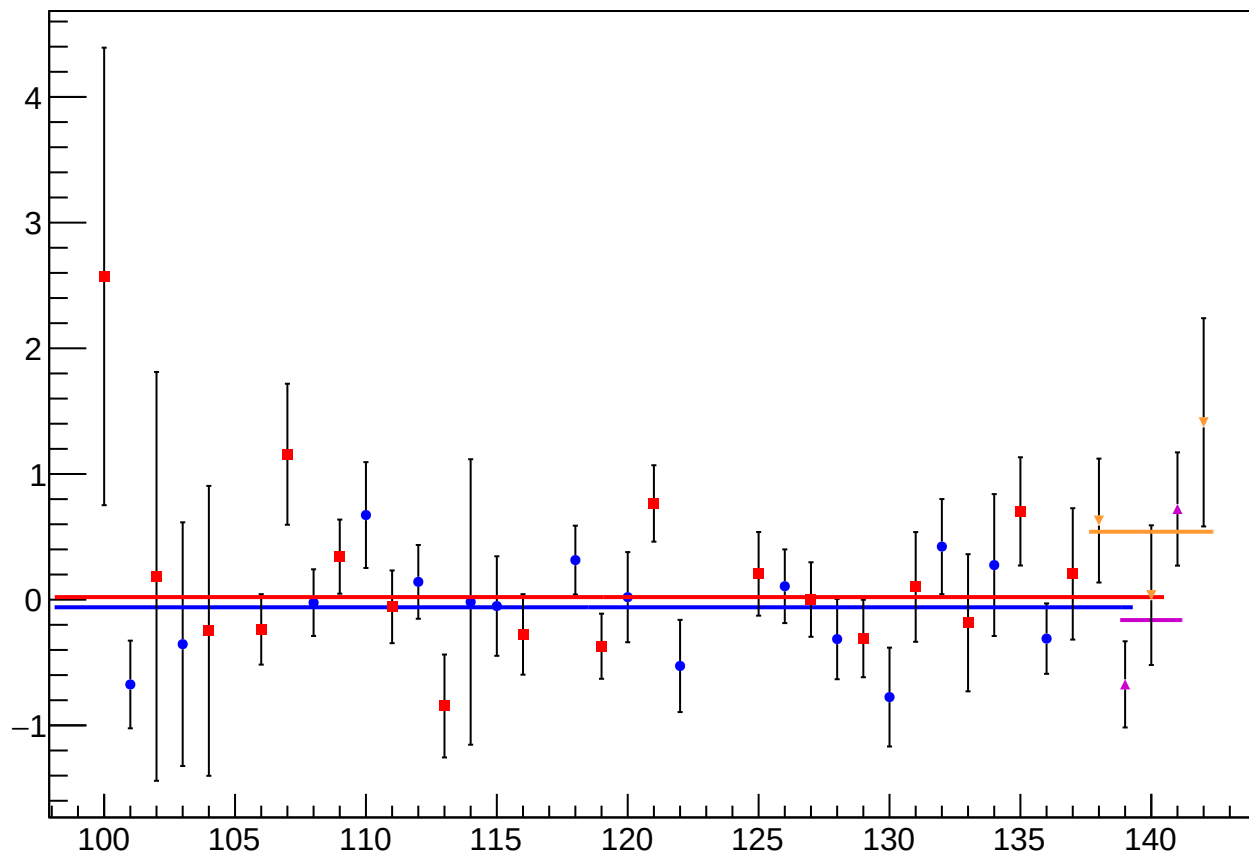
Right: 216.257+/-0.044 χ^2/NDF : 2587251.9/33

In: 234.535+/-0.060 χ^2/NDF : 1479437.7/17

Out: 226.556+/-0.060 χ^2/NDF : 2707587.7/20

All: 230.560+/-0.042 χ^2/NDF : 4195947.1/38

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.089 $\chi^2/\text{NDF}: 17.3/15$

Left Out: 0.541 ± 0.337 $\chi^2/\text{NDF}: 2.0/2$

Right Out: 0.020 ± 0.087 $\chi^2/\text{NDF}: 26.1/17$

Left In: -0.162 ± 0.273 $\chi^2/\text{NDF}: 6.1/1$

Left: 0.116 ± 0.212 $\chi^2/\text{NDF}: 10.7/4$

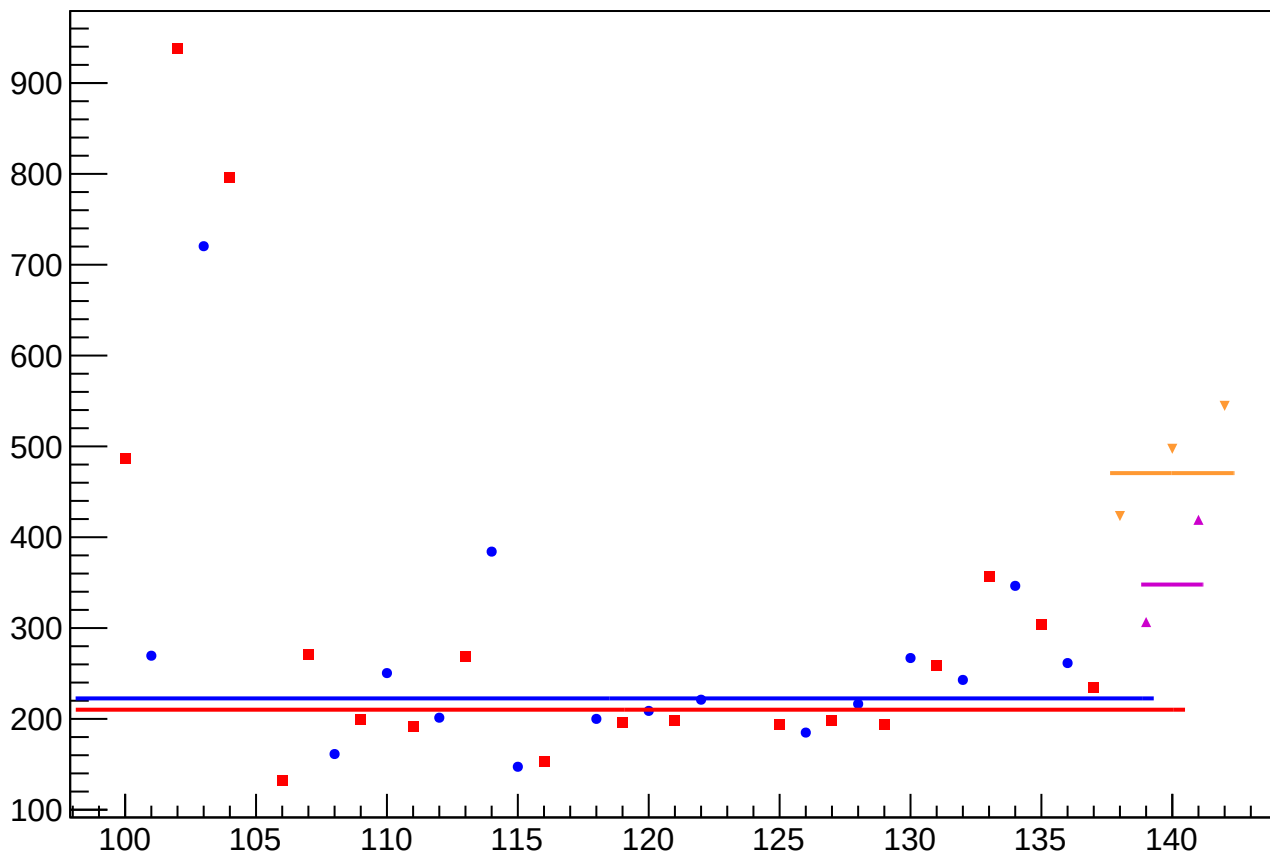
Right: -0.019 ± 0.062 $\chi^2/\text{NDF}: 43.9/33$

In: -0.070 ± 0.084 $\chi^2/\text{NDF}: 23.5/17$

Out: 0.053 ± 0.085 $\chi^2/\text{NDF}: 30.3/20$

All: -0.009 ± 0.060 $\chi^2/\text{NDF}: 54.9/38$

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.567+/-0.063 χ^2/NDF : 1018760.3/15

Left Out: 470.581+/-0.238 χ^2/NDF : 39000.3/2

Right Out: 210.120+/-0.062 χ^2/NDF : 1548507.5/17

Left In: 347.902+/-0.193 χ^2/NDF : 79010.5/1

Left: 396.503+/-0.150 χ^2/NDF : 278162.5/4

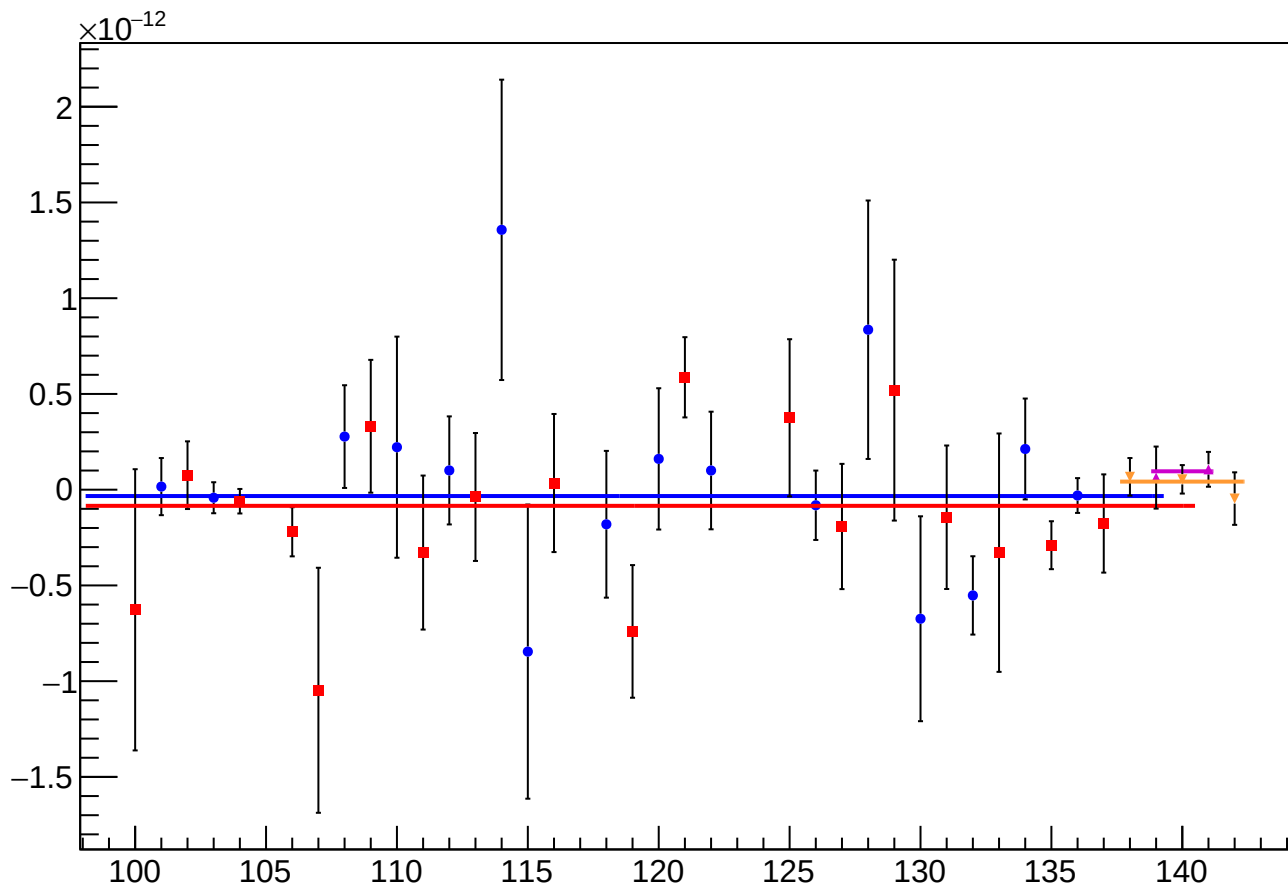
Right: 216.257+/-0.044 χ^2/NDF : 2587251.9/33

In: 234.535+/-0.060 χ^2/NDF : 1479437.7/17

Out: 226.556+/-0.060 χ^2/NDF : 2707587.7/20

All: 230.560+/-0.042 χ^2/NDF : 4195947.1/38

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 17.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.5/2

Right Out: -0.000+/-0.000 χ^2/NDF : 25.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.1/1

Left: 0.000+/-0.000 χ^2/NDF : 0.9/4

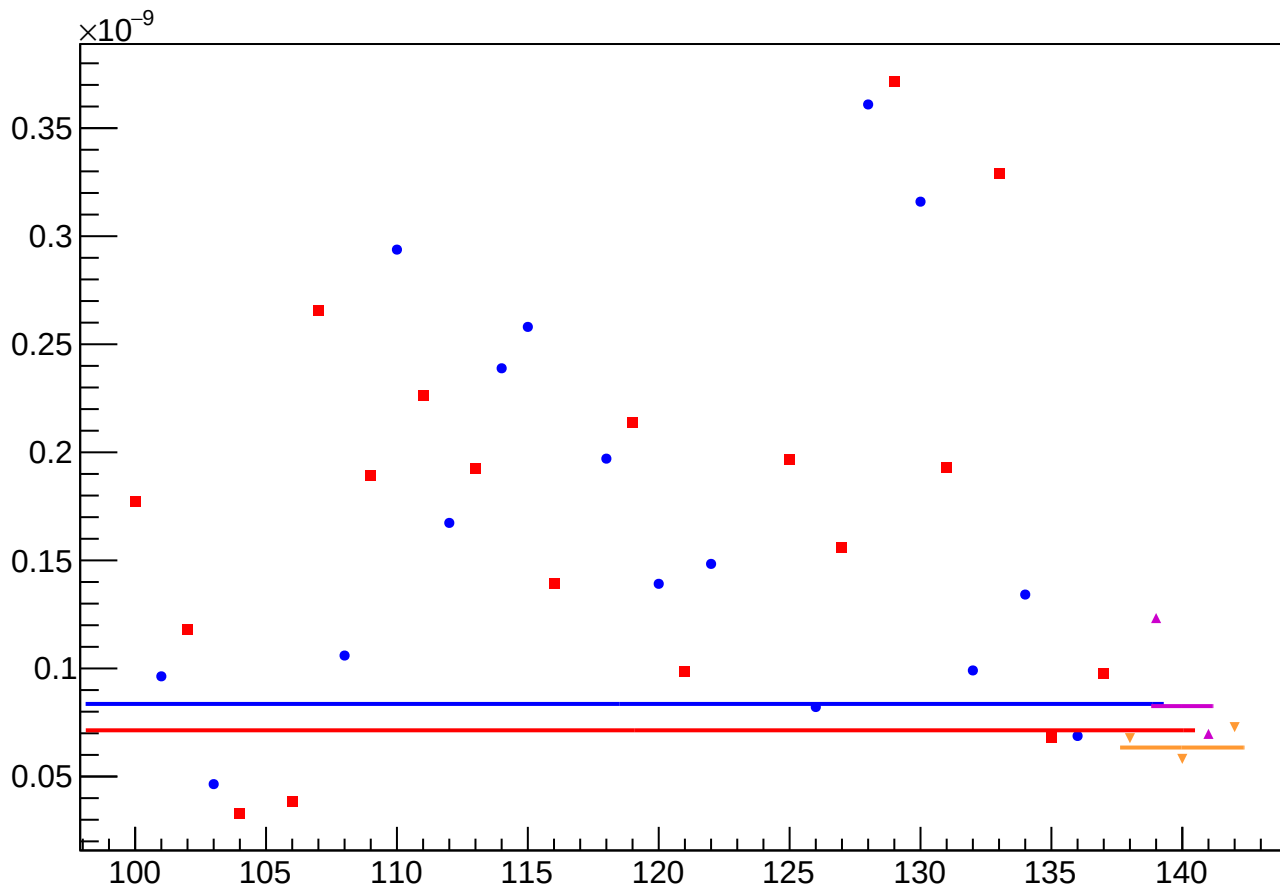
Right: -0.000+/-0.000 χ^2/NDF : 43.7/33

In: 0.000+/-0.000 χ^2/NDF : 19.2/17

Out: -0.000+/-0.000 χ^2/NDF : 29.6/20

All: -0.000+/-0.000 χ^2/NDF : 49.3/38

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2235431.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :23325.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3745180.4/17

Left In: 0.000+/-0.000 χ^2/NDF :166274.0/1

Left: 0.000+/-0.000 χ^2/NDF : 268981.9/4

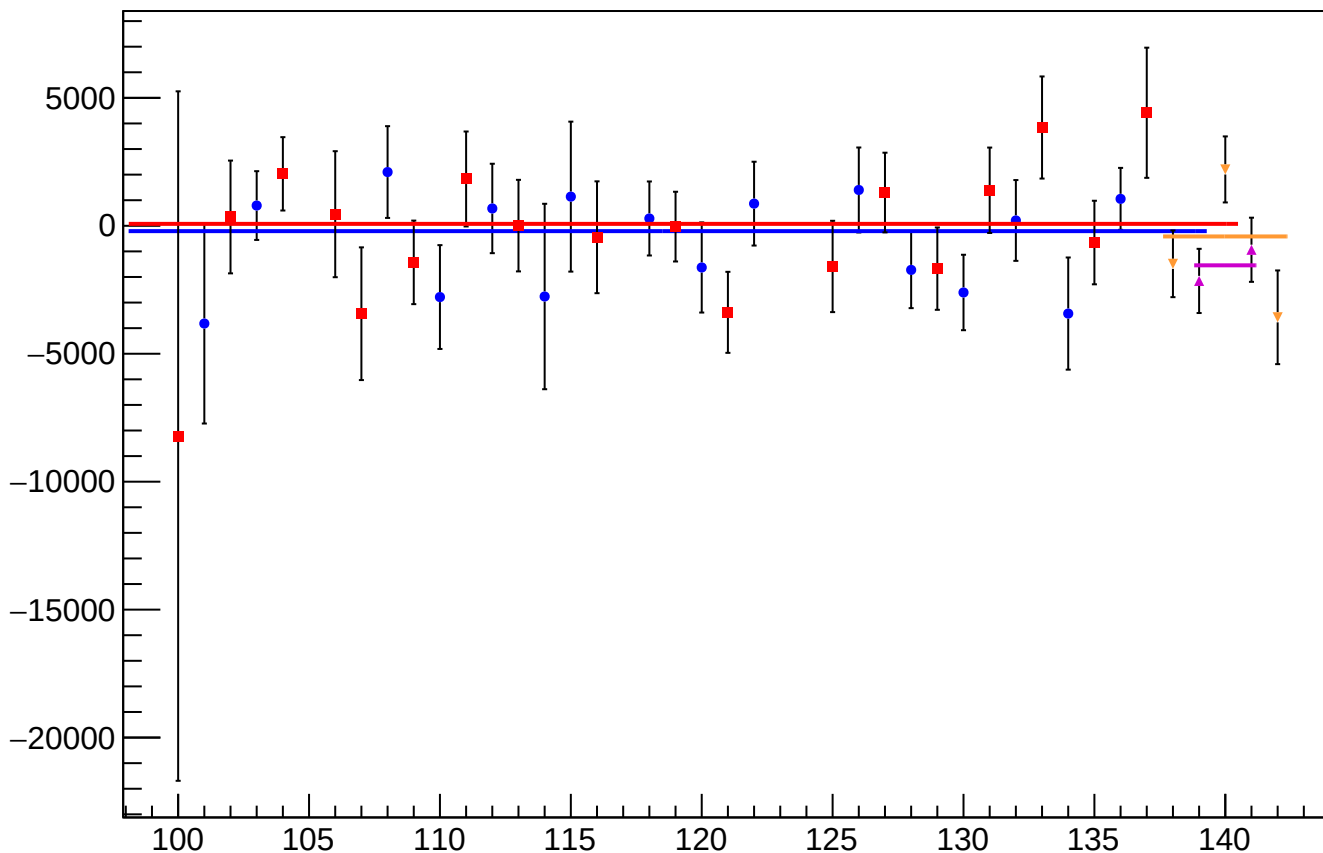
Right: 0.000+/-0.000 χ^2/NDF : 6051897.3/33

In: 0.000+/-0.000 χ^2/NDF :2401943.7/17

Out: 0.000+/-0.000 χ^2/NDF :3794289.0/20

All: 0.000+/-0.000 χ^2/NDF : 6358315.7/38

reg_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -208.338+/-429.155 χ^2/NDF : 14.8/15

Left Out: -416.024+/-819.745 χ^2/NDF : 7.8/2

Right Out: 75.616+/-430.760 χ^2/NDF : 20.7/17

Left In: -1544.692+/-886.721 χ^2/NDF : 0.5/1

Left: -936.128+/-601.934 χ^2/NDF : 9.1/4

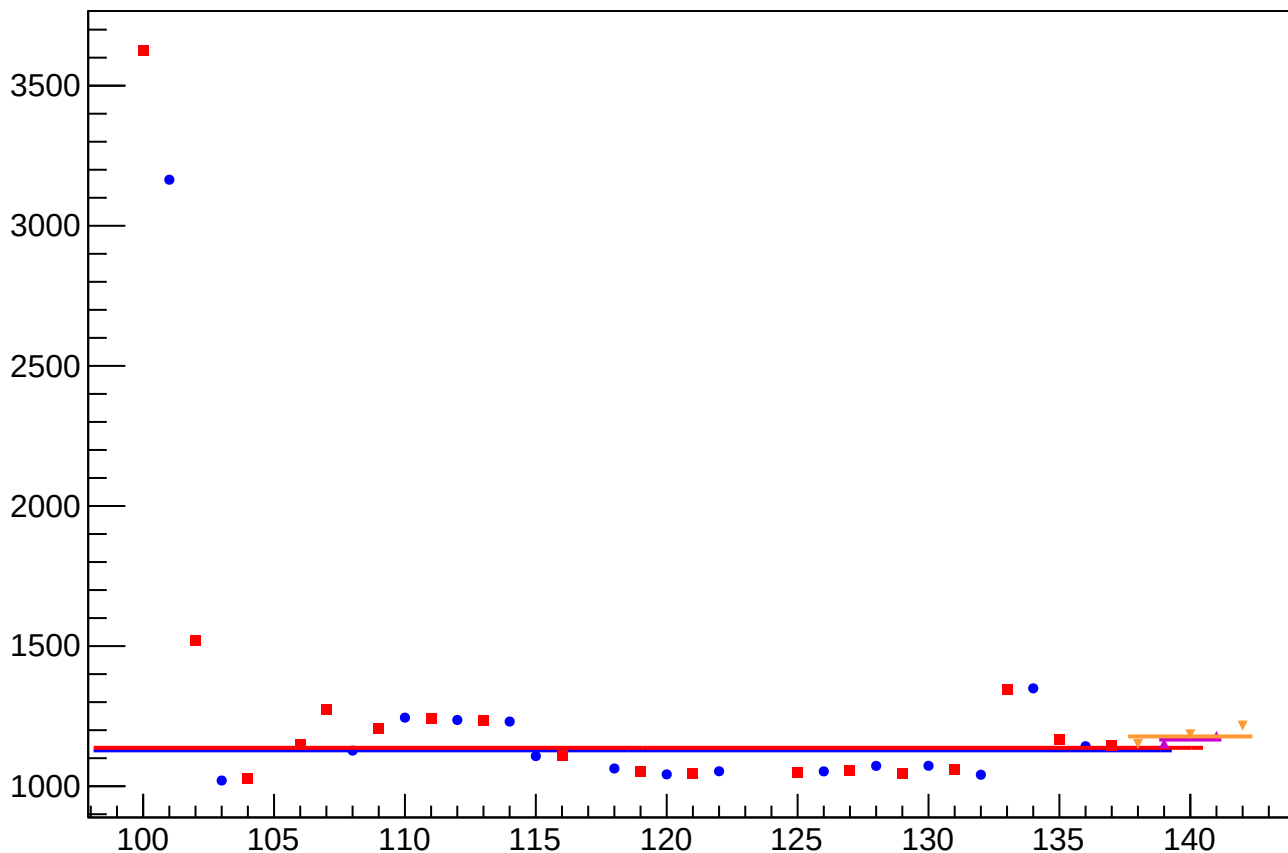
Right: -66.891+/-304.024 χ^2/NDF : 35.6/33

In: -461.954+/-386.291 χ^2/NDF : 17.1/17

Out: -30.766+/-381.319 χ^2/NDF : 28.7/20

All: -243.567+/-271.374 χ^2/NDF : 46.4/38

reg_asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1128.007+/-0.303 χ^2/NDF : 621394.5/15

Left Out: 1177.671+/-0.580 χ^2/NDF : 1795.3/2

Right Out: 1137.041+/-0.304 χ^2/NDF : 220086.1/17

Left In: 1166.473+/-0.627 χ^2/NDF : 423.8/1

Left: 1172.511+/-0.426 χ^2/NDF : 2391.1/4

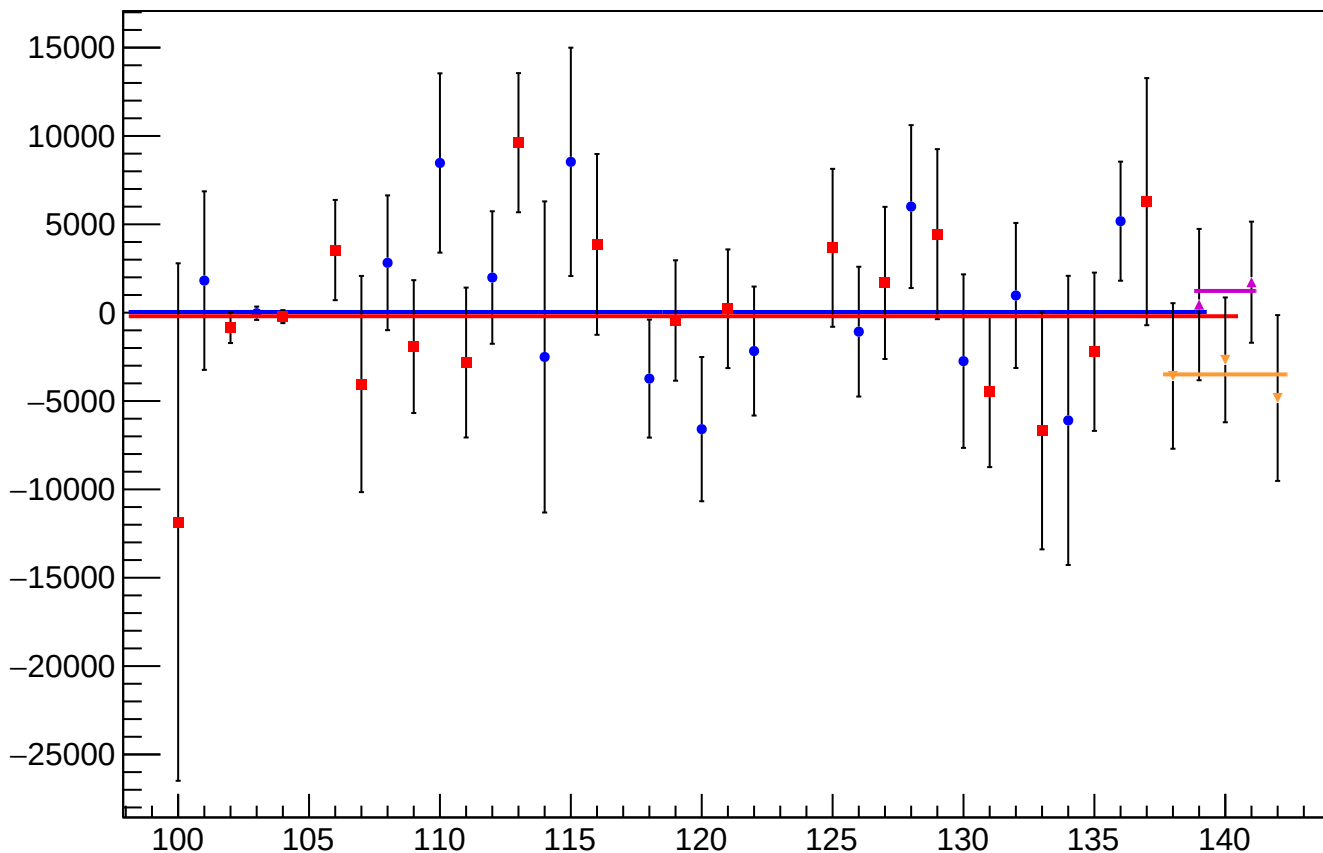
Right: 1132.516+/-0.215 χ^2/NDF : 841922.9/33

In: 1135.307+/-0.273 χ^2/NDF : 624867.6/17

Out: 1145.808+/-0.269 χ^2/NDF : 225734.6/20

All: 1140.633+/-0.192 χ^2/NDF : 851351.7/38

asym_us_avg_atlr_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 38.300+/-357.651 χ^2/NDF : 14.8/15

Left Out: -3493.322+/-2328.025 χ^2/NDF : 0.1/2

Right Out: -201.642+/-322.545 χ^2/NDF : 15.6/17

Left In: 1230.121+/-2675.516 χ^2/NDF : 0.1/1

Left: -1458.064+/-1756.256 χ^2/NDF : 2.0/4

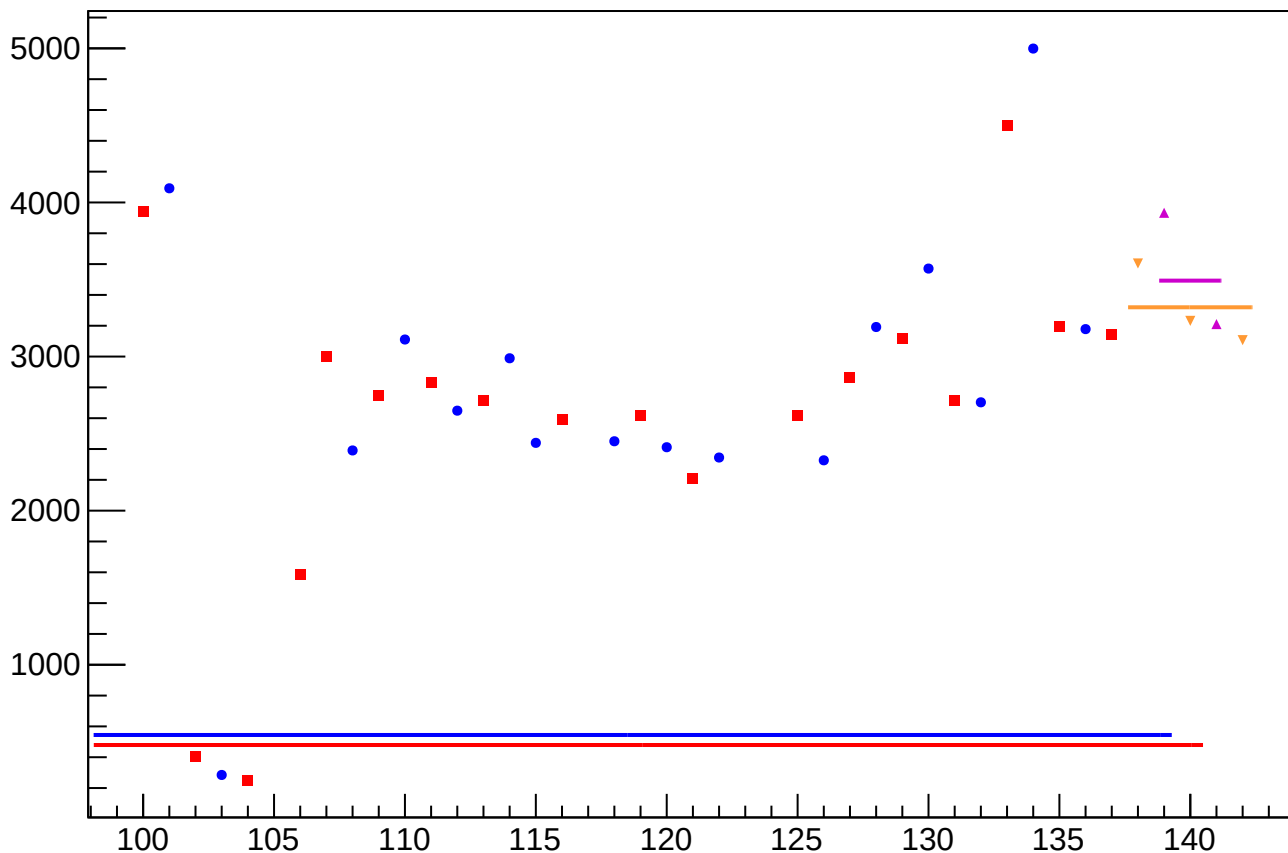
Right: -94.022+/-239.526 χ^2/NDF : 30.7/33

In: 59.223+/-354.498 χ^2/NDF : 15.1/17

Out: -263.638+/-319.493 χ^2/NDF : 17.7/20

All: -118.931+/-237.329 χ^2/NDF : 33.3/38

asym_us_avg_atlr_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 544.336+/-0.253 χ^2/NDF : 9682967.9/15

Left Out: 3319.716+/-1.646 χ^2/NDF : 14905.6/2

Right Out: 479.253+/-0.228 χ^2/NDF : 9187985.0/17

Left In: 3492.715+/-1.892 χ^2/NDF : 34682.6/1

Left: 3394.259+/-1.242 χ^2/NDF : 54346.9/4

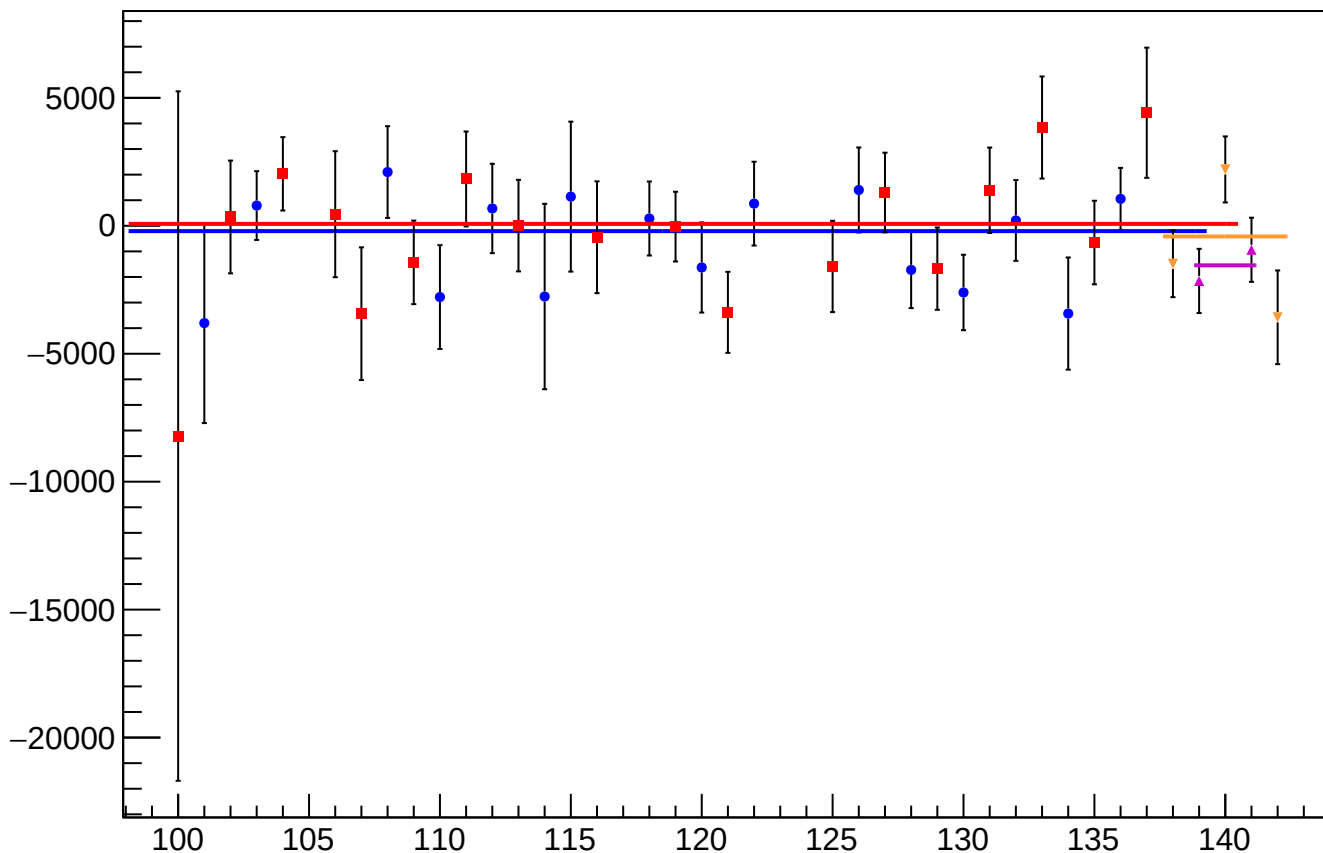
Right: 508.444+/-0.169 χ^2/NDF : 18907476.4/33

In: 596.096+/-0.251 χ^2/NDF : 12103755.5/17

Out: 532.750+/-0.226 χ^2/NDF : 12124186.7/20

All: 561.142+/-0.168 χ^2/NDF : 24263180.3/38

cor_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -208.110+/-429.155 χ^2/NDF : 14.8/15

Left Out: -416.068+/-819.745 χ^2/NDF : 7.8/2

Right Out: 75.761+/-430.760 χ^2/NDF : 20.7/17

Left In: -1544.884+/-886.721 χ^2/NDF : 0.5/1

Left: -936.240+/-601.934 χ^2/NDF : 9.1/4

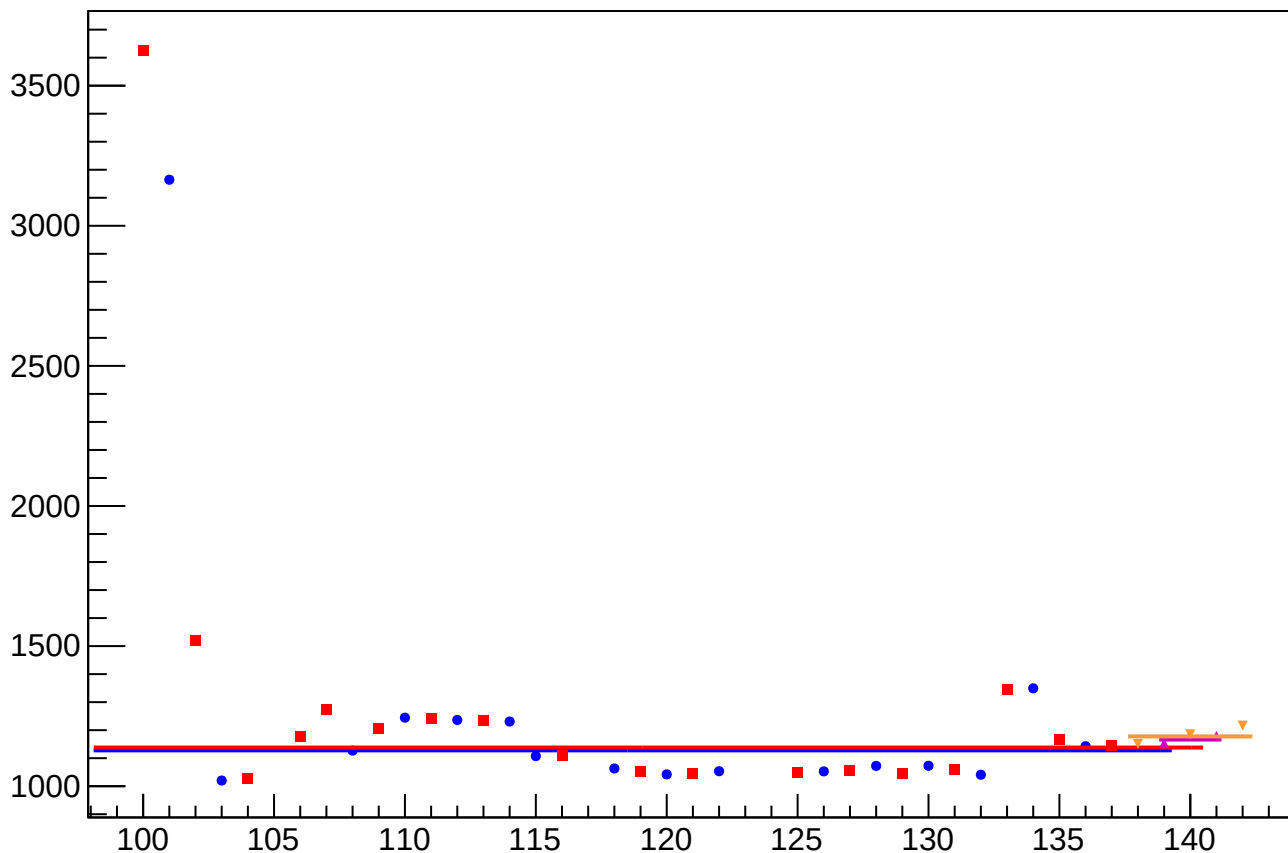
Right: -66.705+/-304.024 χ^2/NDF : 35.6/33

In: -461.806+/-386.291 χ^2/NDF : 17.1/17

Out: -30.661+/-381.319 χ^2/NDF : 28.7/20

All: -243.441+/-271.374 χ^2/NDF : 46.4/38

cor_asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1128.007 $\pm$ 0.303 χ^2 /NDF: 621395.6/15

Left Out: 1177.671 $\pm$ 0.580 χ^2 /NDF:1795.3/2

Right Out: 1138.000 $\pm$ 0.304 χ^2 /NDF: 220624.5/17

Left In: 1166.473 $\pm$ 0.627 χ^2 /NDF:423.8/1

Left: 1172.511 $\pm$ 0.426 χ^2 /NDF: 2391.1/4

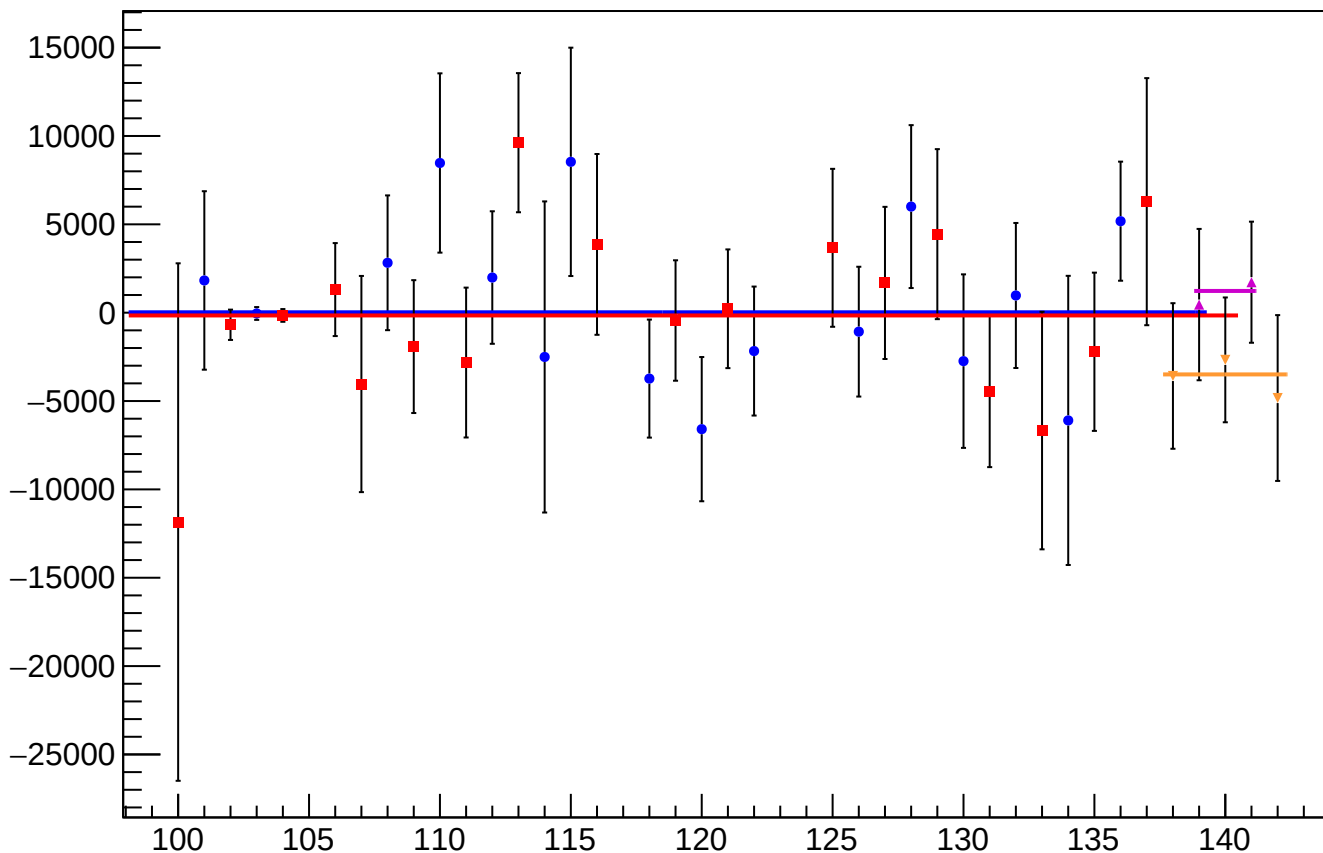
Right: 1132.987 $\pm$ 0.215 χ^2 /NDF: 842560.5/33

In: 1135.307 $\pm$ 0.273 χ^2 /NDF:624868.7/17

Out: 1146.576 $\pm$ 0.270 χ^2 /NDF:226091.3/20

All: 1141.017 $\pm$ 0.192 χ^2 /NDF: 851822.4/38

asym_us_avg_atlr_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 21.645+/-344.525 χ^2/NDF : 14.9/15

Left Out: -3493.360+/-2328.023 χ^2/NDF : 0.1/2

Right Out: -156.231+/-317.367 χ^2/NDF : 14.0/17

Left In: 1230.183+/-2675.520 χ^2/NDF : 0.1/1

Left: -1458.065+/-1756.257 χ^2/NDF : 2.0/4

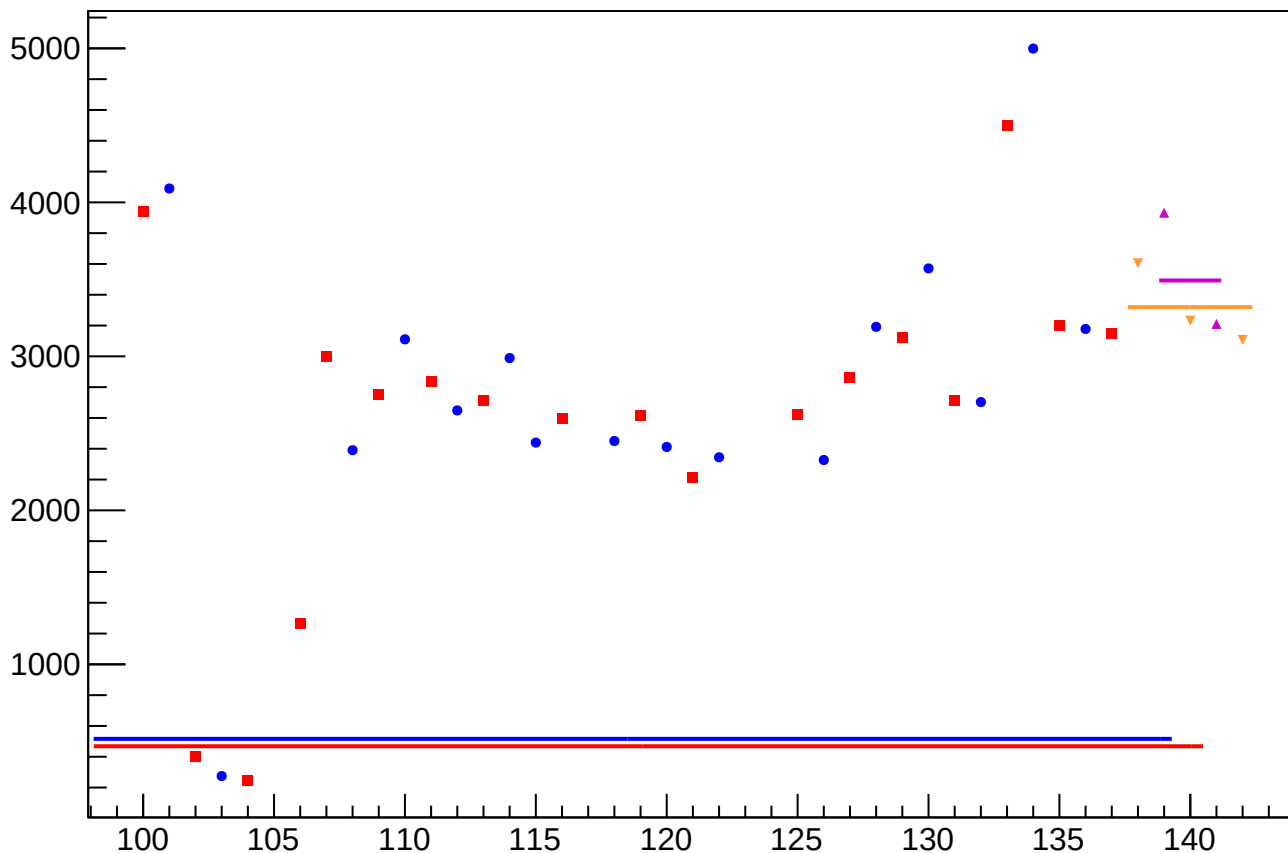
Right: -74.579+/-233.424 χ^2/NDF : 29.0/33

In: 41.358+/-341.704 χ^2/NDF : 15.1/17

Out: -217.118+/-314.459 χ^2/NDF : 16.1/20

All: -98.594+/-231.389 χ^2/NDF : 31.6/38

asym_us_avg_atlr_avg_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 516.297+/-0.244 χ^2/NDF : 9834669.6/15

Left Out: 3319.712+/-1.646 χ^2/NDF :14905.1/2

Right Out: 468.060+/-0.224 χ^2/NDF : 9111222.0/17

Left In: 3492.720+/-1.892 χ^2/NDF :34682.7/1

Left: 3394.258+/-1.242 χ^2/NDF : 54347.1/4

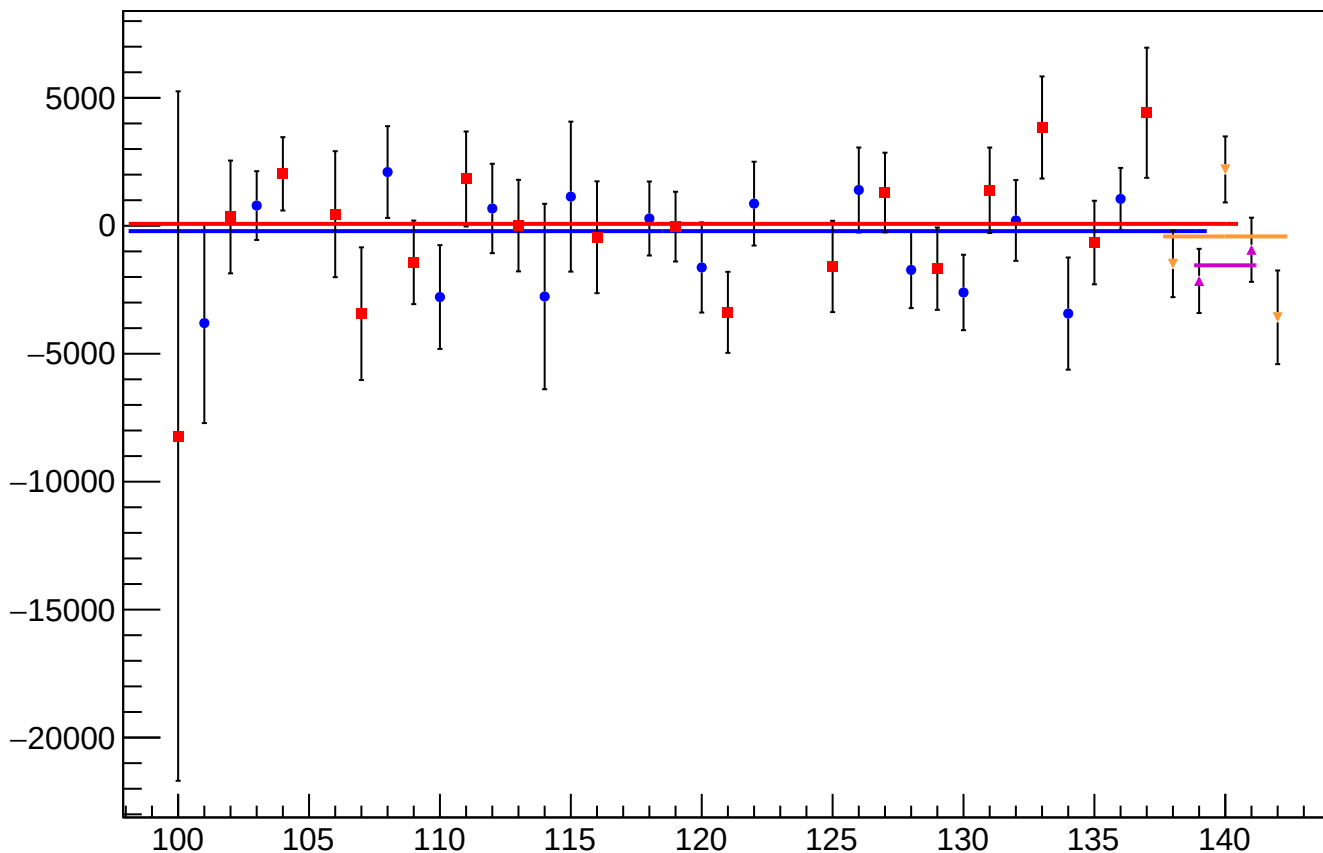
Right: 490.202+/-0.165 χ^2/NDF : 18967100.3/33

In: 564.845+/-0.242 χ^2/NDF :12304136.8/17

Out: 520.089+/-0.222 χ^2/NDF :12072256.3/20

All: 540.612+/-0.164 χ^2/NDF : 24394971.1/38

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -208.110+/-429.155 χ^2/NDF : 14.8/15

Left Out: -416.068+/-819.745 χ^2/NDF : 7.8/2

Right Out: 75.761+/-430.760 χ^2/NDF : 20.7/17

Left In: -1544.884+/-886.721 χ^2/NDF : 0.5/1

Left: -936.240+/-601.934 χ^2/NDF : 9.1/4

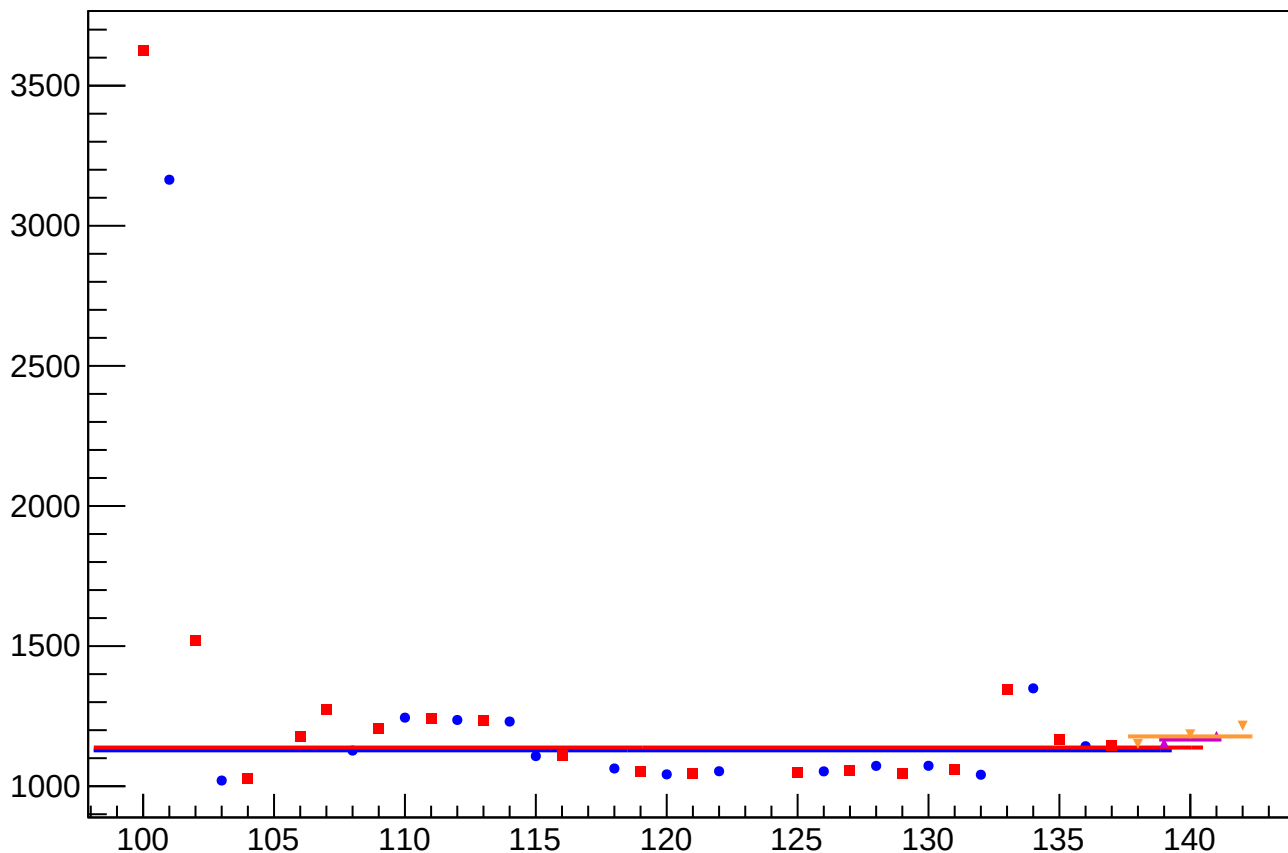
Right: -66.705+/-304.024 χ^2/NDF : 35.6/33

In: -461.806+/-386.291 χ^2/NDF : 17.1/17

Out: -30.661+/-381.319 χ^2/NDF : 28.7/20

All: -243.441+/-271.374 χ^2/NDF : 46.4/38

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1128.007+/-0.303 χ^2/NDF : 621395.6/15

Left Out: 1177.671+/-0.580 χ^2/NDF : 1795.3/2

Right Out: 1138.000+/-0.304 χ^2/NDF : 220624.5/17

Left In: 1166.473+/-0.627 χ^2/NDF : 423.8/1

Left: 1172.511+/-0.426 χ^2/NDF : 2391.1/4

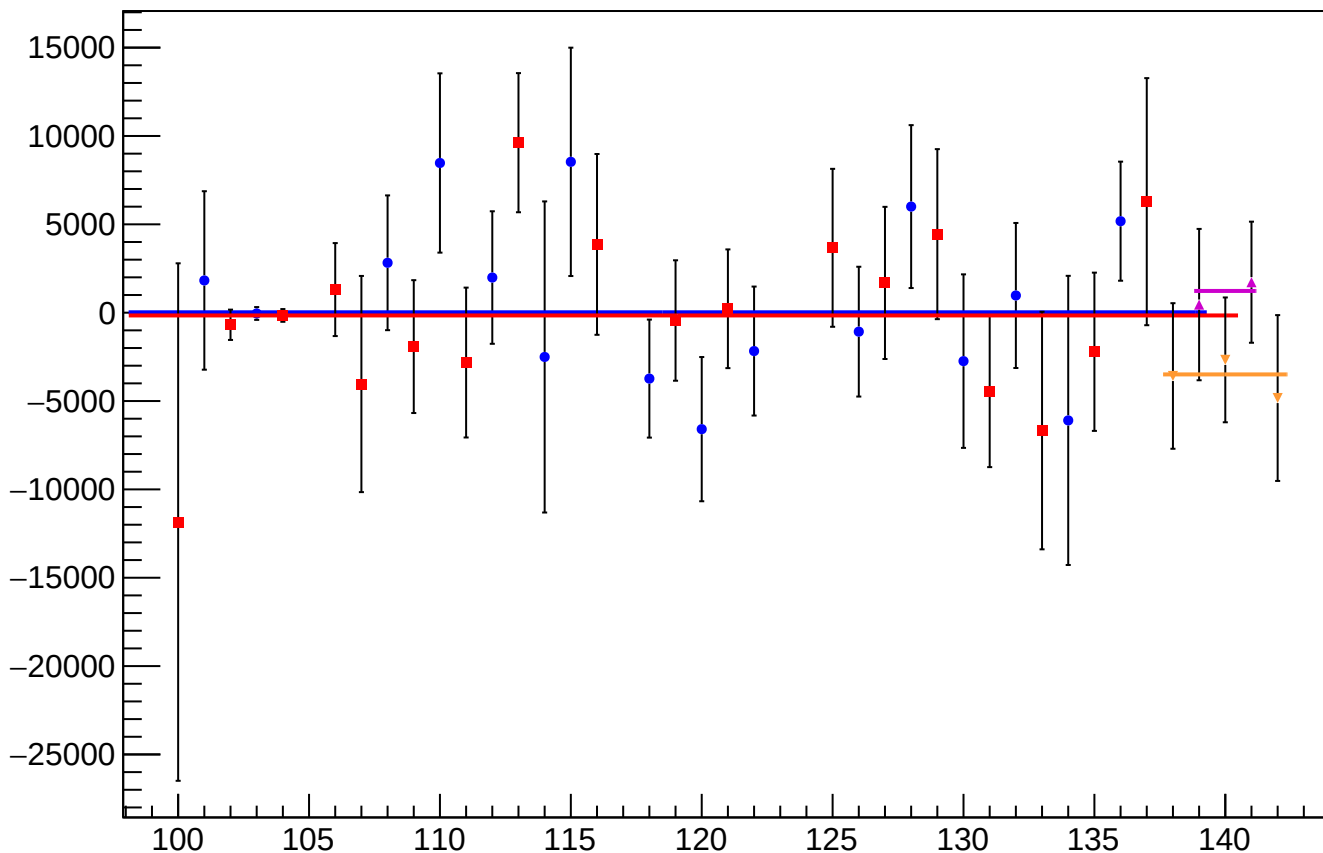
Right: 1132.987+/-0.215 χ^2/NDF : 842560.5/33

In: 1135.307+/-0.273 χ^2/NDF : 624868.7/17

Out: 1146.576+/-0.270 χ^2/NDF : 226091.3/20

All: 1141.017+/-0.192 χ^2/NDF : 851822.4/38

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 21.645+/-344.525 χ^2/NDF : 14.9/15

Left Out: -3493.360+/-2328.023 χ^2/NDF : 0.1/2

Right Out: -156.231+/-317.367 χ^2/NDF : 14.0/17

Left In: 1230.183+/-2675.520 χ^2/NDF : 0.1/1

Left: -1458.065+/-1756.257 χ^2/NDF : 2.0/4

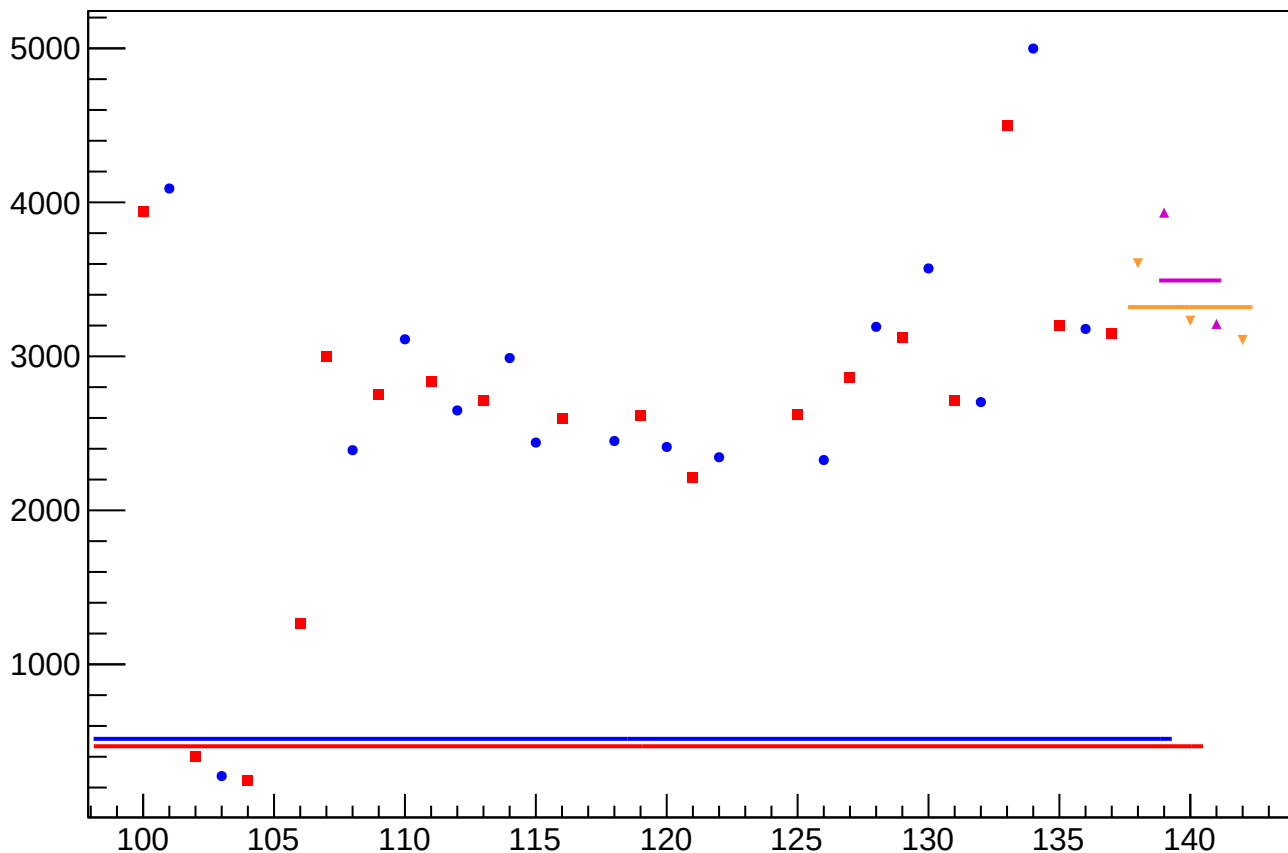
Right: -74.579+/-233.424 χ^2/NDF : 29.0/33

In: 41.358+/-341.704 χ^2/NDF : 15.1/17

Out: -217.118+/-314.459 χ^2/NDF : 16.1/20

All: -98.594+/-231.389 χ^2/NDF : 31.6/38

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 516.297+/-0.244 χ^2/NDF : 9834669.6/15

Left Out: 3319.712+/-1.646 χ^2/NDF :14905.1/2

Right Out: 468.060+/-0.224 χ^2/NDF : 9111222.0/17

Left In: 3492.720+/-1.892 χ^2/NDF :34682.7/1

Left: 3394.258+/-1.242 χ^2/NDF : 54347.1/4

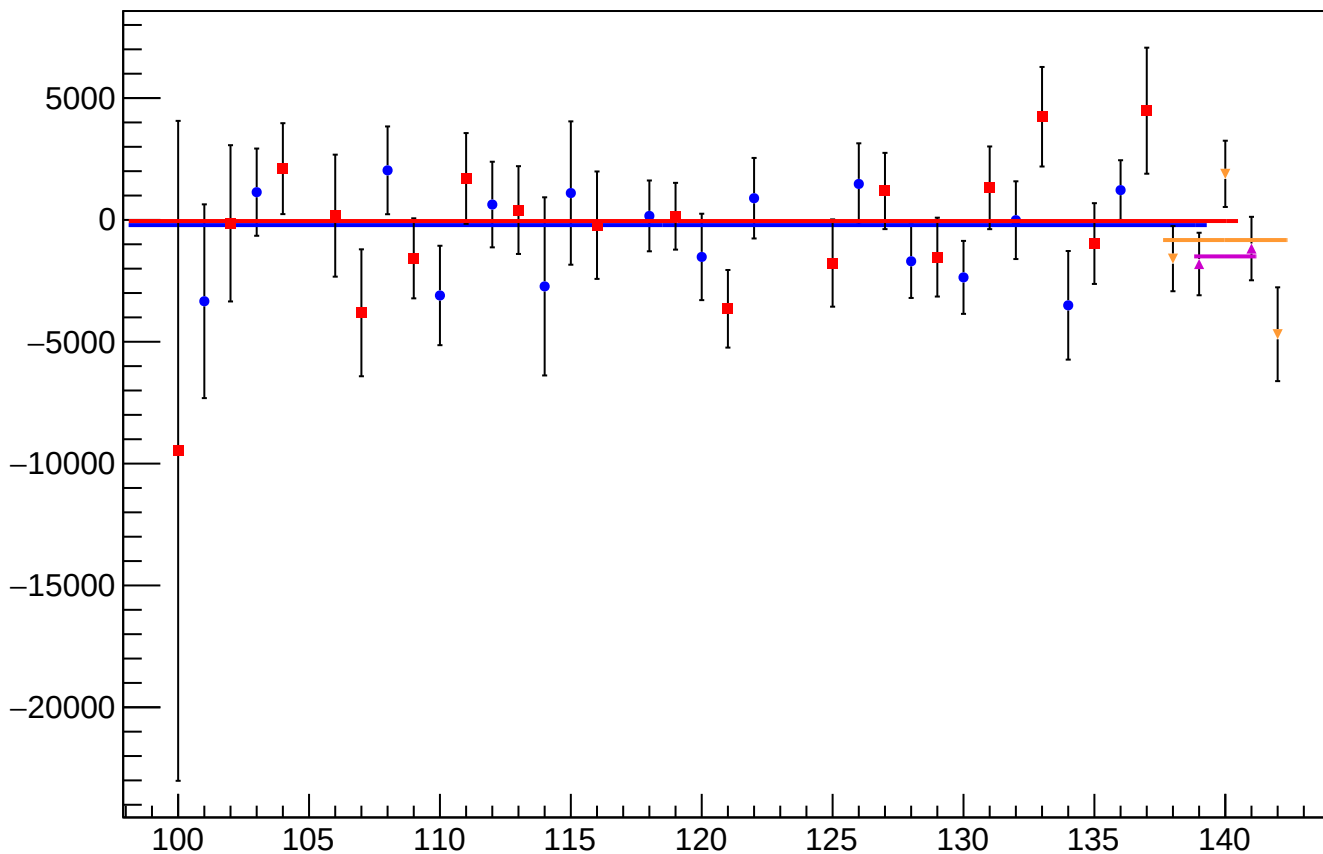
Right: 490.202+/-0.165 χ^2/NDF : 18967100.3/33

In: 564.845+/-0.242 χ^2/NDF :12304136.8/17

Out: 520.089+/-0.222 χ^2/NDF :12072256.3/20

All: 540.612+/-0.164 χ^2/NDF : 24394971.1/38

dit_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -213.079+/-442.684 χ^2/NDF : 14.3/15

Left Out: -826.280+/-854.385 χ^2/NDF : 8.3/2

Right Out: -45.535+/-447.221 χ^2/NDF : 21.7/17

Left In: -1497.252+/-913.669 χ^2/NDF : 0.1/1

Left: -1139.293+/-624.048 χ^2/NDF : 8.8/4

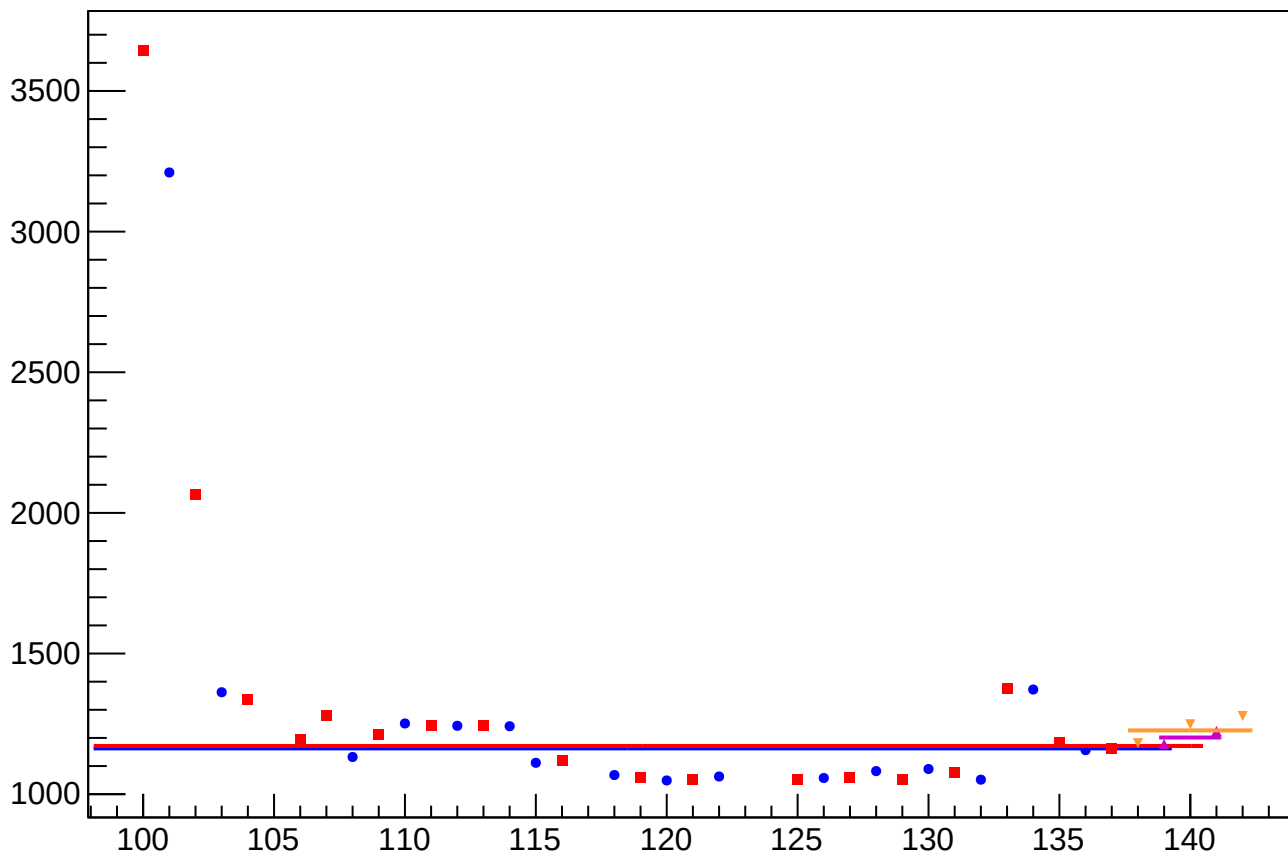
Right: -130.161+/-314.617 χ^2/NDF : 36.1/33

In: -457.228+/-398.386 χ^2/NDF : 16.0/17

Out: -213.446+/-396.222 χ^2/NDF : 30.7/20

All: -334.673+/-280.933 χ^2/NDF : 46.9/38

dit_asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1162.851+/-0.313 χ^2/NDF : 635353.4/15

Left Out: 1226.798+/-0.604 χ^2/NDF :4223.3/2

Right Out: 1171.420+/-0.316 χ^2/NDF : 331640.8/17

Left In: 1201.450+/-0.646 χ^2/NDF :1282.0/1

Left: 1214.973+/-0.441 χ^2/NDF : 6326.5/4

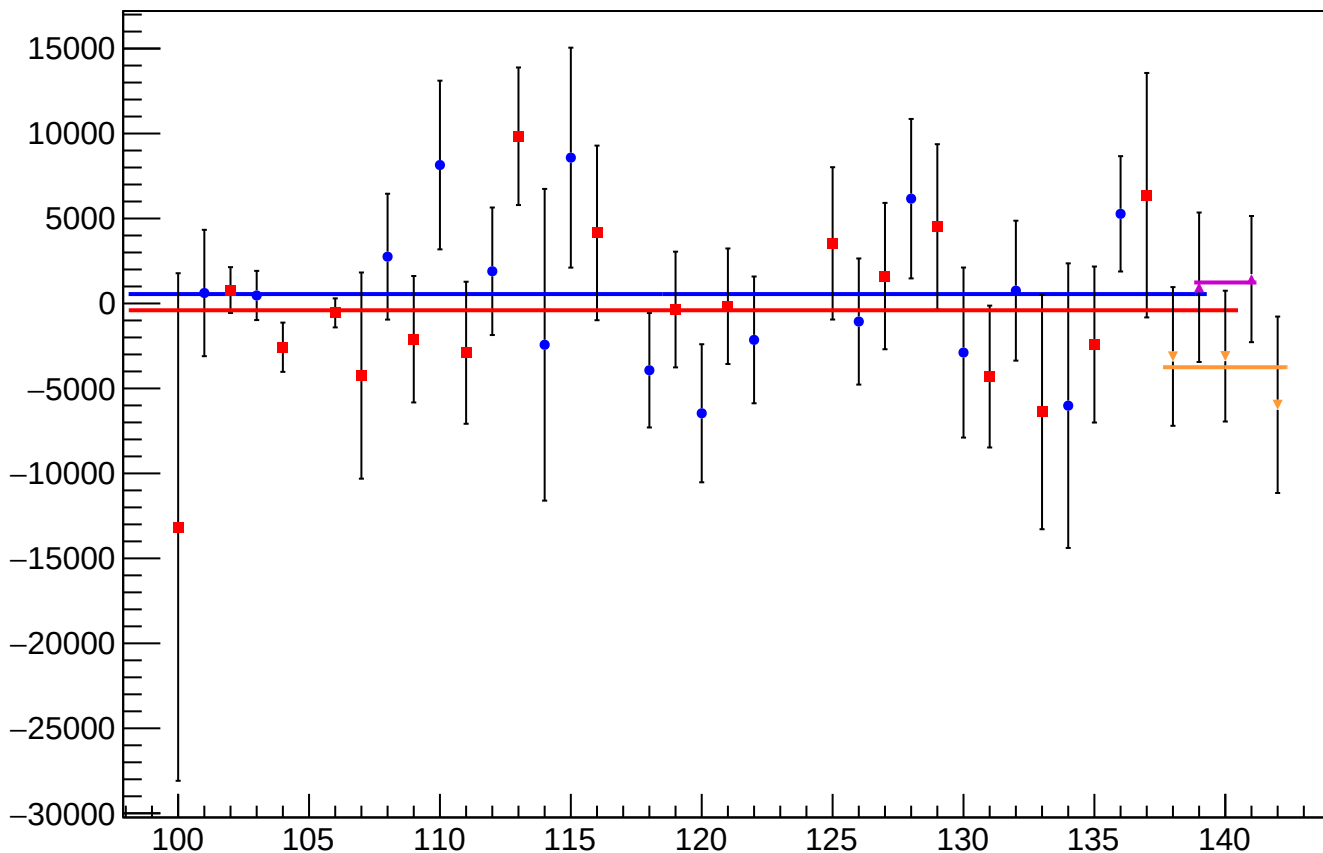
Right: 1167.094+/-0.222 χ^2/NDF : 967365.3/33

In: 1170.190+/-0.282 χ^2/NDF :639526.3/17

Out: 1183.321+/-0.280 χ^2/NDF :342460.6/20

All: 1176.794+/-0.199 χ^2/NDF : 983079.7/38

asym_us_avg_atlr_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 552.517+/-874.128 χ^2/NDF : 14.4/15

Left Out: -3751.017+/-2464.341 χ^2/NDF : 0.2/2

Right Out: -400.432+/-565.871 χ^2/NDF : 16.7/17

Left In: 1234.778+/-2836.827 χ^2/NDF : 0.0/1

Left: -1606.725+/-1860.405 χ^2/NDF : 2.0/4

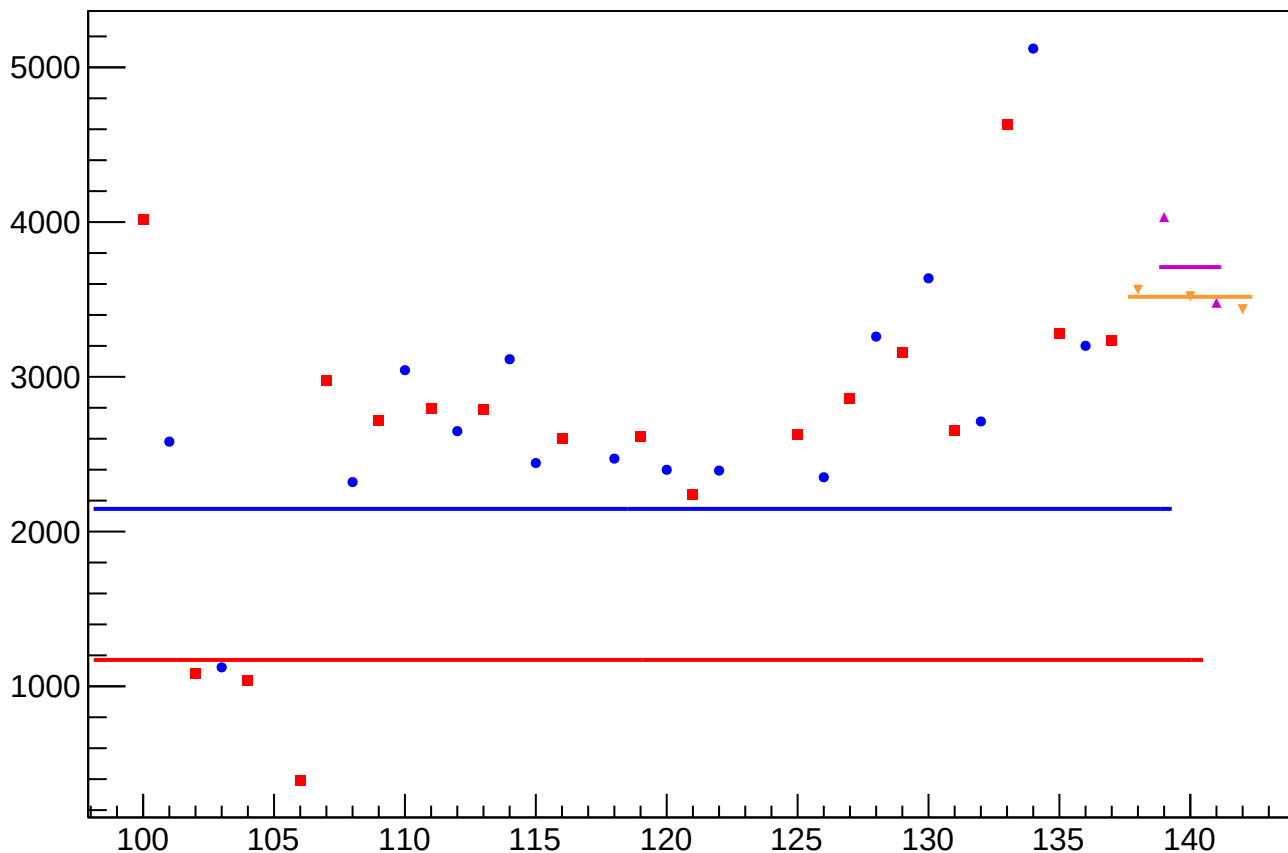
Right: -119.015+/-475.024 χ^2/NDF : 31.9/33

In: 611.679+/-835.369 χ^2/NDF : 14.5/17

Out: -568.250+/-551.518 χ^2/NDF : 18.7/20

All: -210.070+/-460.258 χ^2/NDF : 34.5/38

asym_us_avg_atlr_avg_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2146.616+/-0.618 χ^2/NDF : 1974723.6/15

Left Out: 3517.098+/-1.743 χ^2/NDF : 731.7/2

Right Out: 1170.573+/-0.400 χ^2/NDF : 5817478.8/17

Left In: 3709.382+/-2.006 χ^2/NDF : 18479.1/1

Left: 3599.796+/-1.316 χ^2/NDF : 24447.6/4

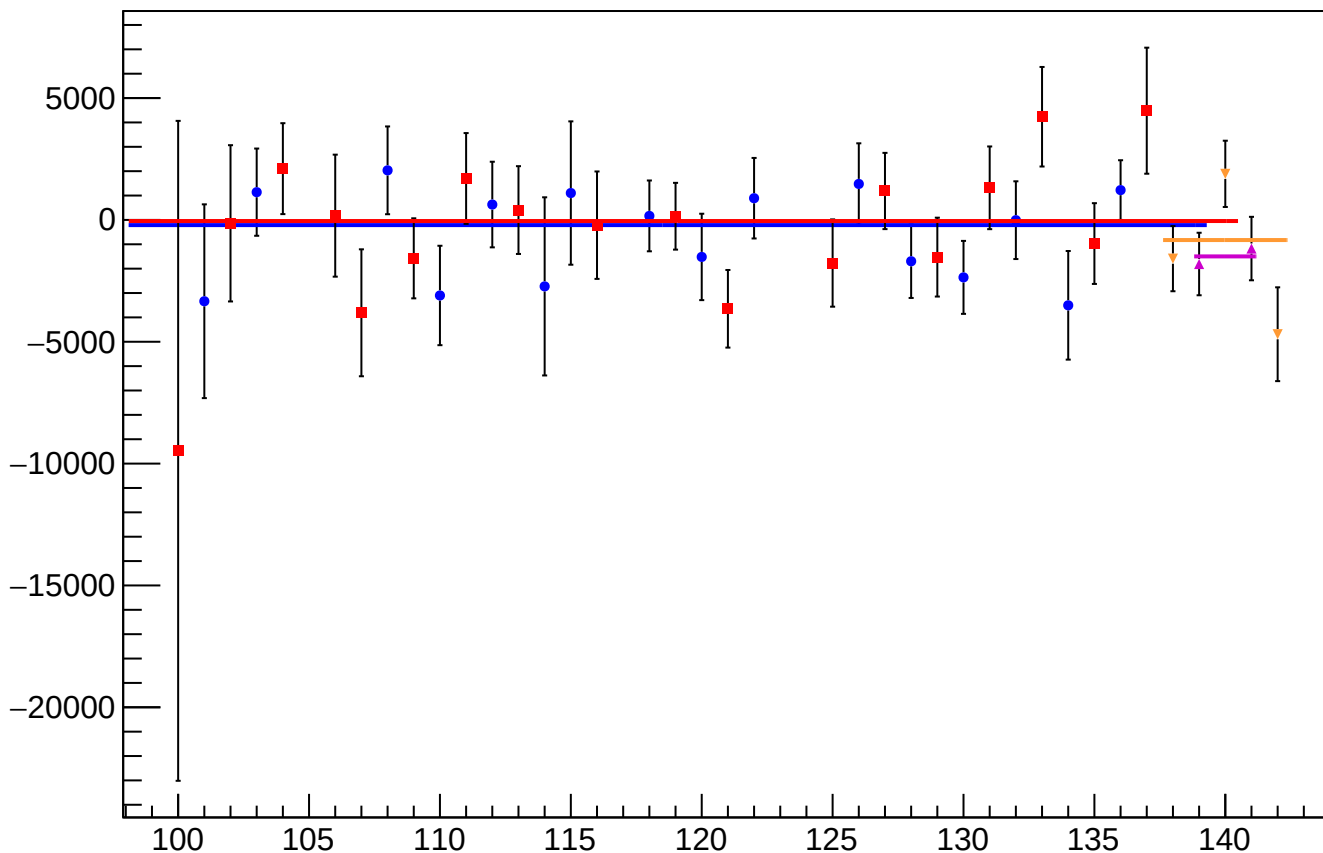
Right: 1458.811+/-0.336 χ^2/NDF : 9549375.1/33

In: 2282.130+/-0.591 χ^2/NDF : 2547520.5/17

Out: 1288.102+/-0.390 χ^2/NDF : 7540725.5/20

All: 1589.850+/-0.325 χ^2/NDF : 12060462.0/3

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -213.082+/-442.684 χ^2/NDF : 14.3/15

Left Out: -826.290+/-854.385 χ^2/NDF : 8.3/2

Right Out: -45.539+/-447.221 χ^2/NDF : 21.7/17

Left In: -1497.241+/-913.669 χ^2/NDF : 0.1/1

Left: -1139.293+/-624.048 χ^2/NDF : 8.8/4

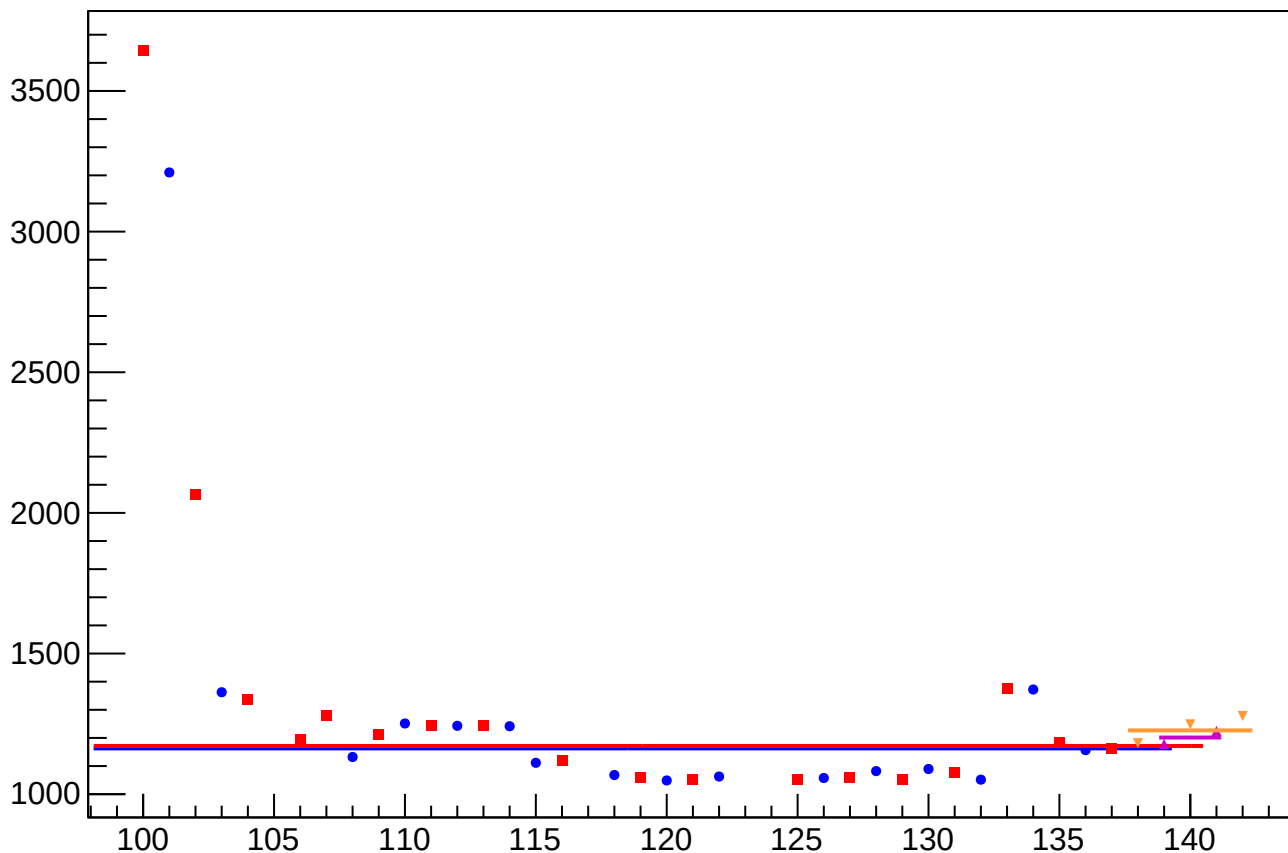
Right: -130.164+/-314.617 χ^2/NDF : 36.1/33

In: -457.227+/-398.386 χ^2/NDF : 16.0/17

Out: -213.451+/-396.222 χ^2/NDF : 30.7/20

All: -334.675+/-280.933 χ^2/NDF : 46.9/38

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1162.851+/-0.313 χ^2/NDF : 635353.6/15

Left Out: 1226.799+/-0.604 χ^2/NDF : 4223.4/2

Right Out: 1171.420+/-0.316 χ^2/NDF : 331640.4/17

Left In: 1201.451+/-0.646 χ^2/NDF : 1282.0/1

Left: 1214.974+/-0.441 χ^2/NDF : 6326.5/4

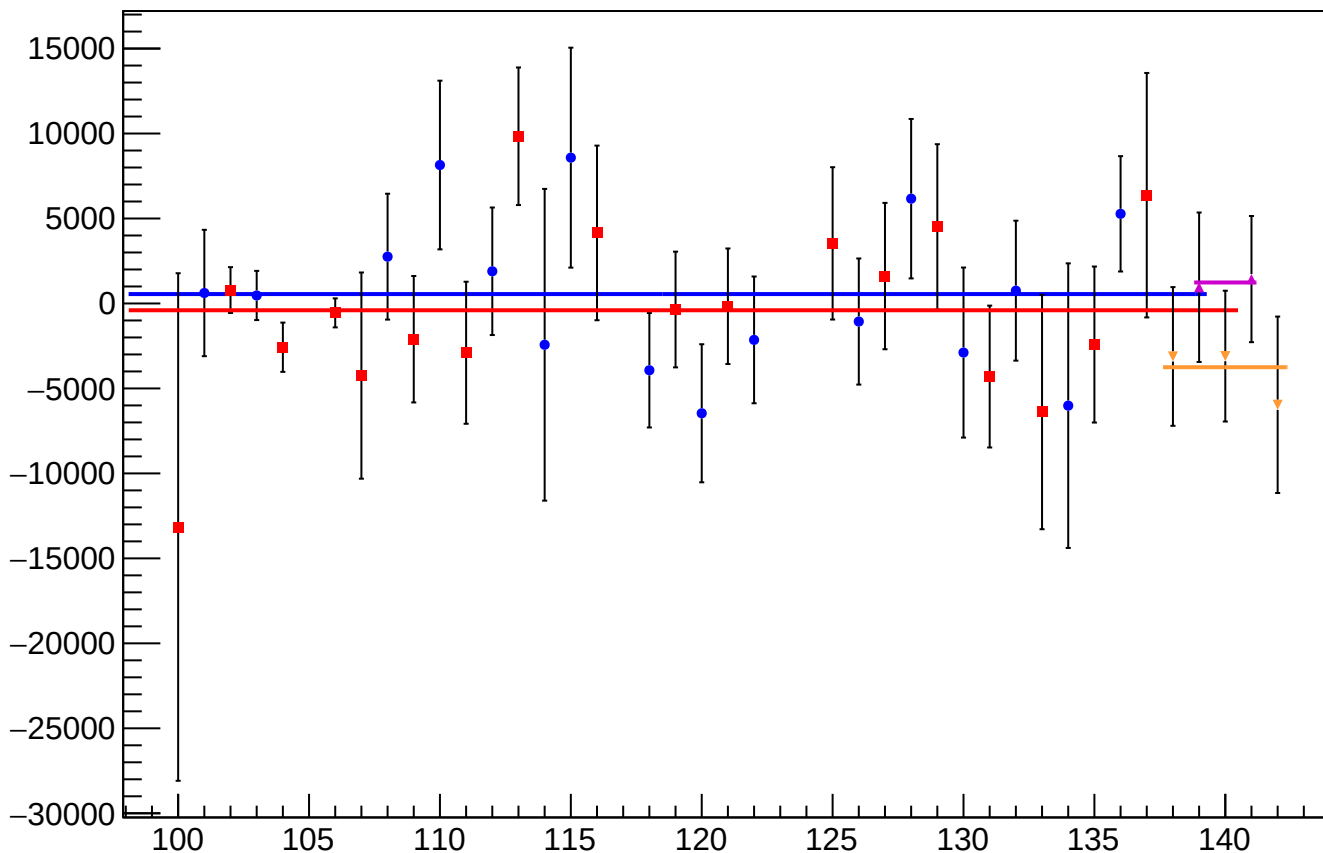
Right: 1167.094+/-0.222 χ^2/NDF : 967365.1/33

In: 1170.190+/-0.282 χ^2/NDF : 639526.5/17

Out: 1183.321+/-0.280 χ^2/NDF : 342460.4/20

All: 1176.794+/-0.199 χ^2/NDF : 983079.7/38

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 552.510 $\pm$ 874.126 χ^2 /NDF: 14.4/15

Left Out: -3751.031 $\pm$ 2464.344 χ^2 /NDF:0.2/2

Right Out: -400.433 $\pm$ 565.864 χ^2 /NDF: 16.7/17

Left In: 1234.788 $\pm$ 2836.830 χ^2 /NDF:0.0/1

Left: -1606.728 $\pm$ 1860.408 χ^2 /NDF: 2.0/4

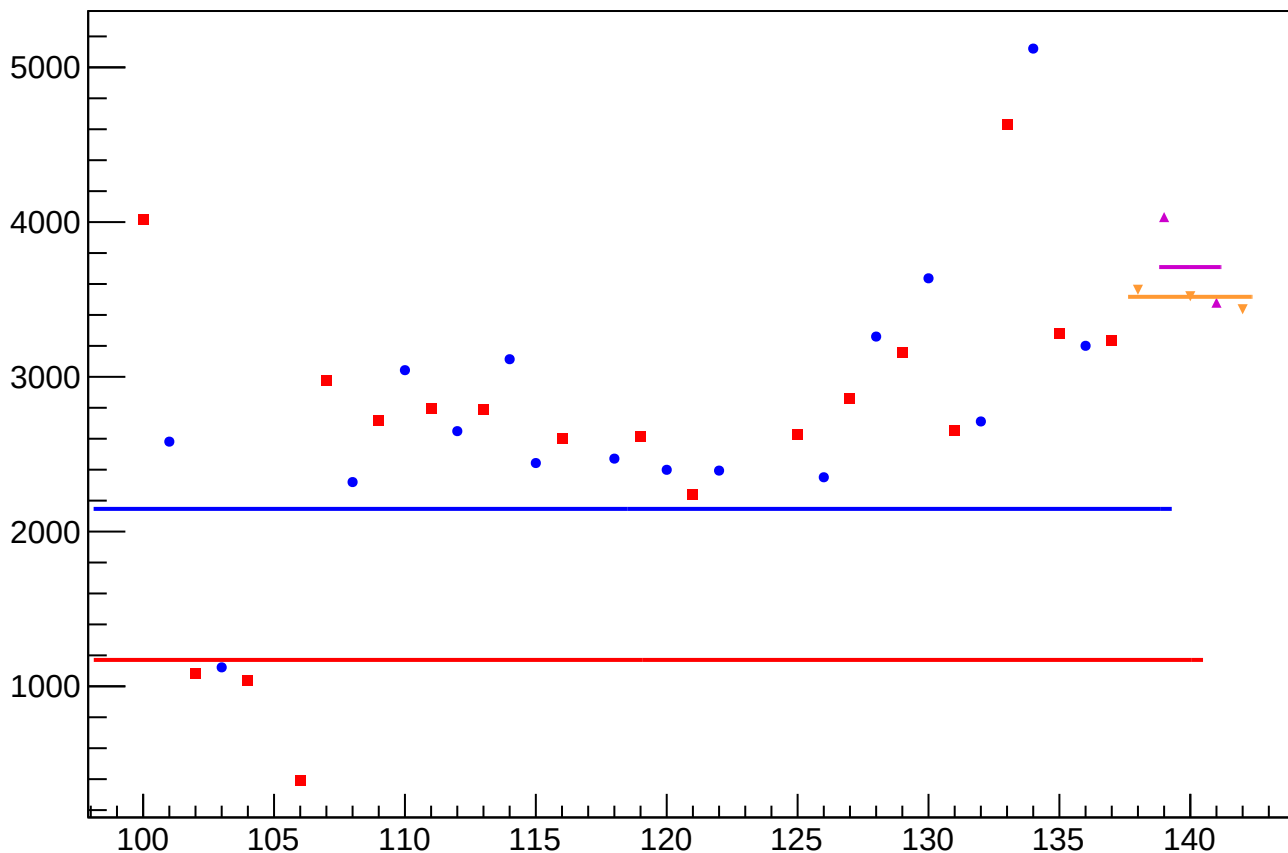
Right: -119.022 $\pm$ 475.020 χ^2 /NDF: 31.9/33

In: 611.673 $\pm$ 835.368 χ^2 /NDF:14.5/17

Out: -568.247 $\pm$ 551.511 χ^2 /NDF:18.7/20

All: -210.075 $\pm$ 460.254 χ^2 /NDF: 34.5/38

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2146.613 $\pm$ 0.618 χ^2 /NDF: 1974719.3/15

Left Out: 3517.103 $\pm$ 1.743 χ^2 /NDF: 731.7/2

Right Out: 1170.550 $\pm$ 0.400 χ^2 /NDF: 5817605.6/17

Left In: 3709.386 $\pm$ 2.006 χ^2 /NDF: 18479.7/1

Left: 3599.800 $\pm$ 1.316 χ^2 /NDF: 24448.2/4

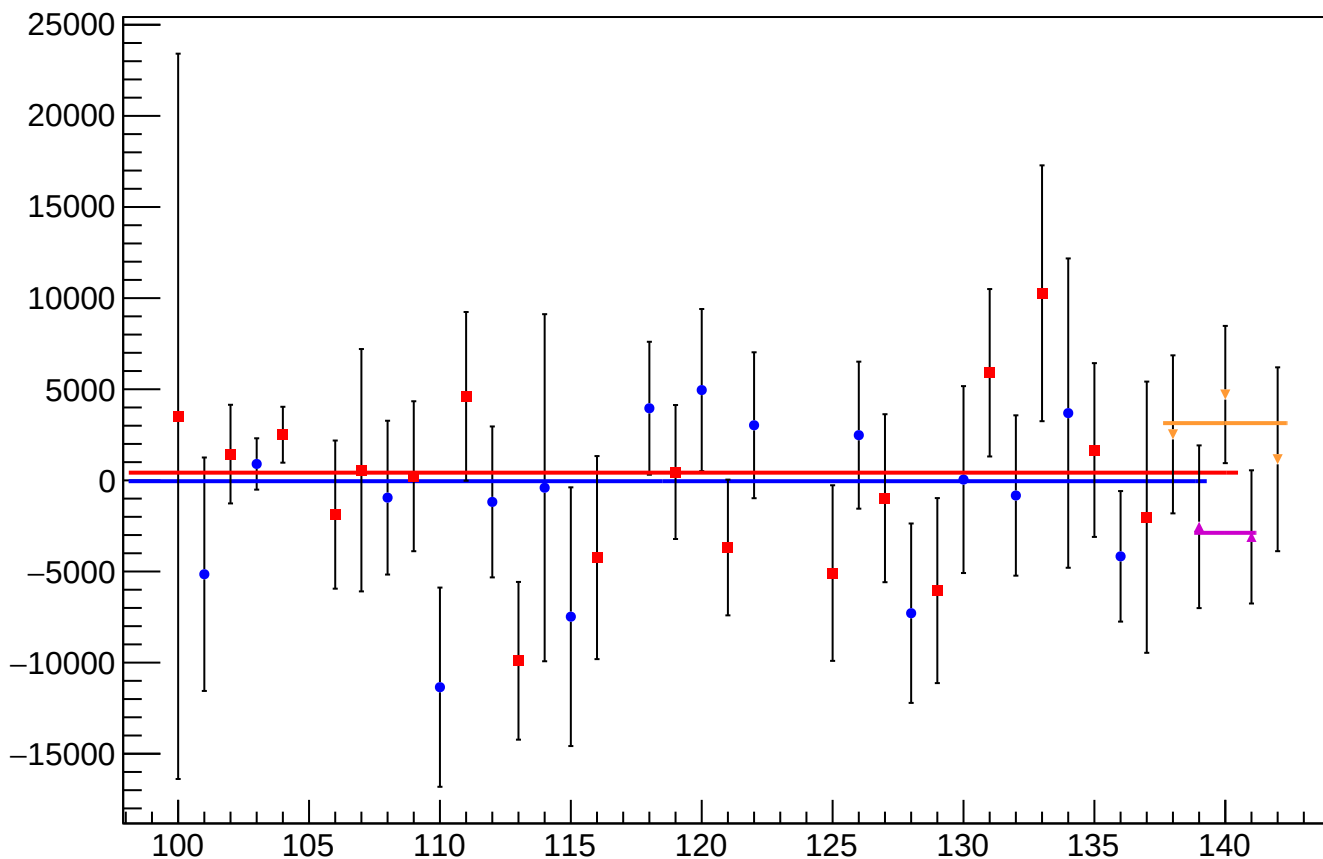
Right: 1458.789 $\pm$ 0.336 χ^2 /NDF: 9549586.1/33

In: 2282.127 $\pm$ 0.591 χ^2 /NDF: 2547520.9/17

Out: 1288.077 $\pm$ 0.390 χ^2 /NDF: 7540890.8/20

All: 1589.827 $\pm$ 0.325 χ^2 /NDF: 12060730.6/3

asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -44.874 ± 920.736 $\chi^2/\text{NDF}: 13.7/15$

Left Out: 3141.316 ± 2476.723 $\chi^2/\text{NDF}: 0.3/2$

Right Out: 423.476 ± 896.736 $\chi^2/\text{NDF}: 17.3/17$

Left In: -2878.448 ± 2827.826 $\chi^2/\text{NDF}: 0.0/1$

Left: 528.138 ± 1863.148 $\chi^2/\text{NDF}: 2.9/4$

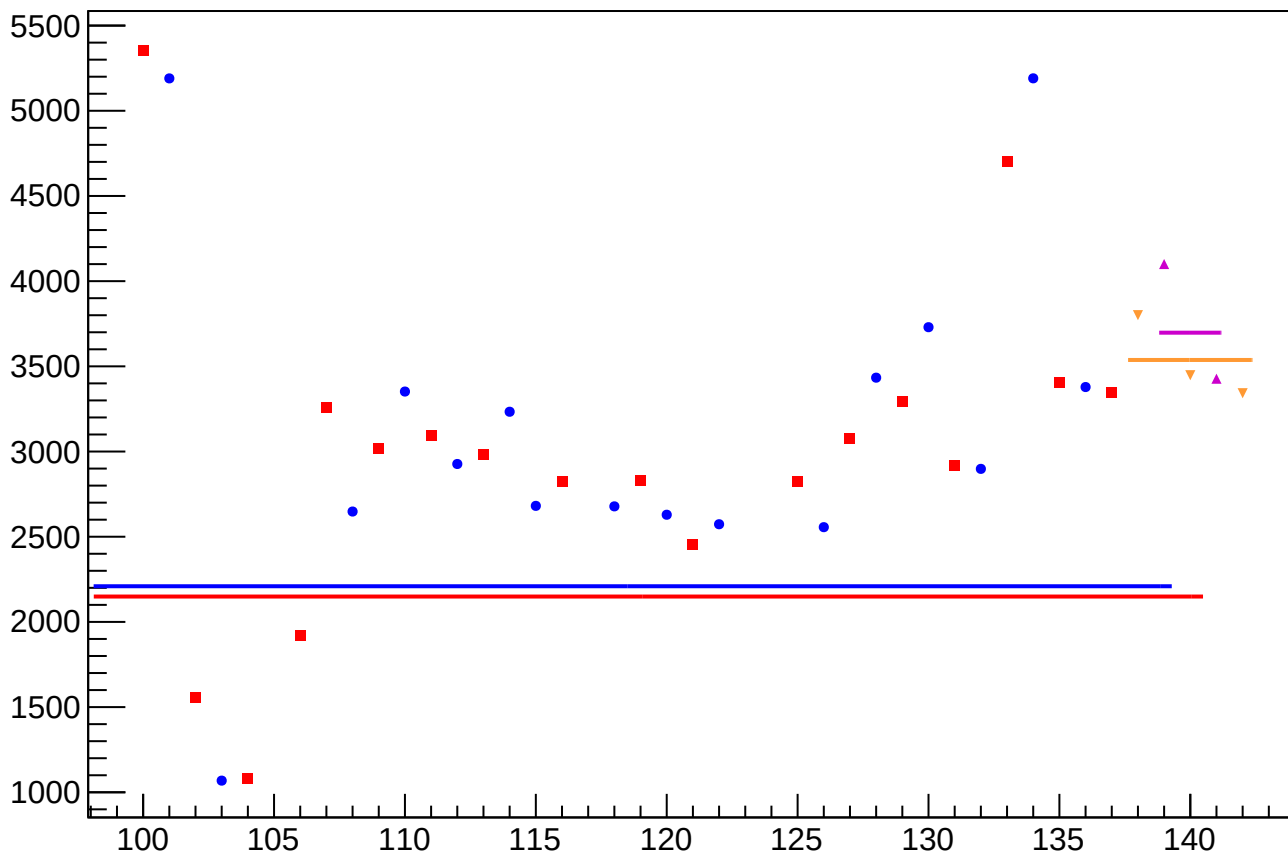
Right: 195.485 ± 642.405 $\chi^2/\text{NDF}: 31.2/33$

In: -316.480 ± 875.497 $\chi^2/\text{NDF}: 14.7/17$

Out: 738.469 ± 843.171 $\chi^2/\text{NDF}: 18.8/20$

All: 230.830 ± 607.319 $\chi^2/\text{NDF}: 34.2/38$

asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 2209.349+/-0.651 χ^2/NDF : 2836875.7/15

Left Out: 3537.441+/-1.751 χ^2/NDF : 11482.5/2

Right Out: 2148.948+/-0.633 χ^2/NDF : 2269660.8/17

Left In: 3697.570+/-2.000 χ^2/NDF : 27221.7/1

Left: 3606.953+/-1.317 χ^2/NDF : 42333.4/4

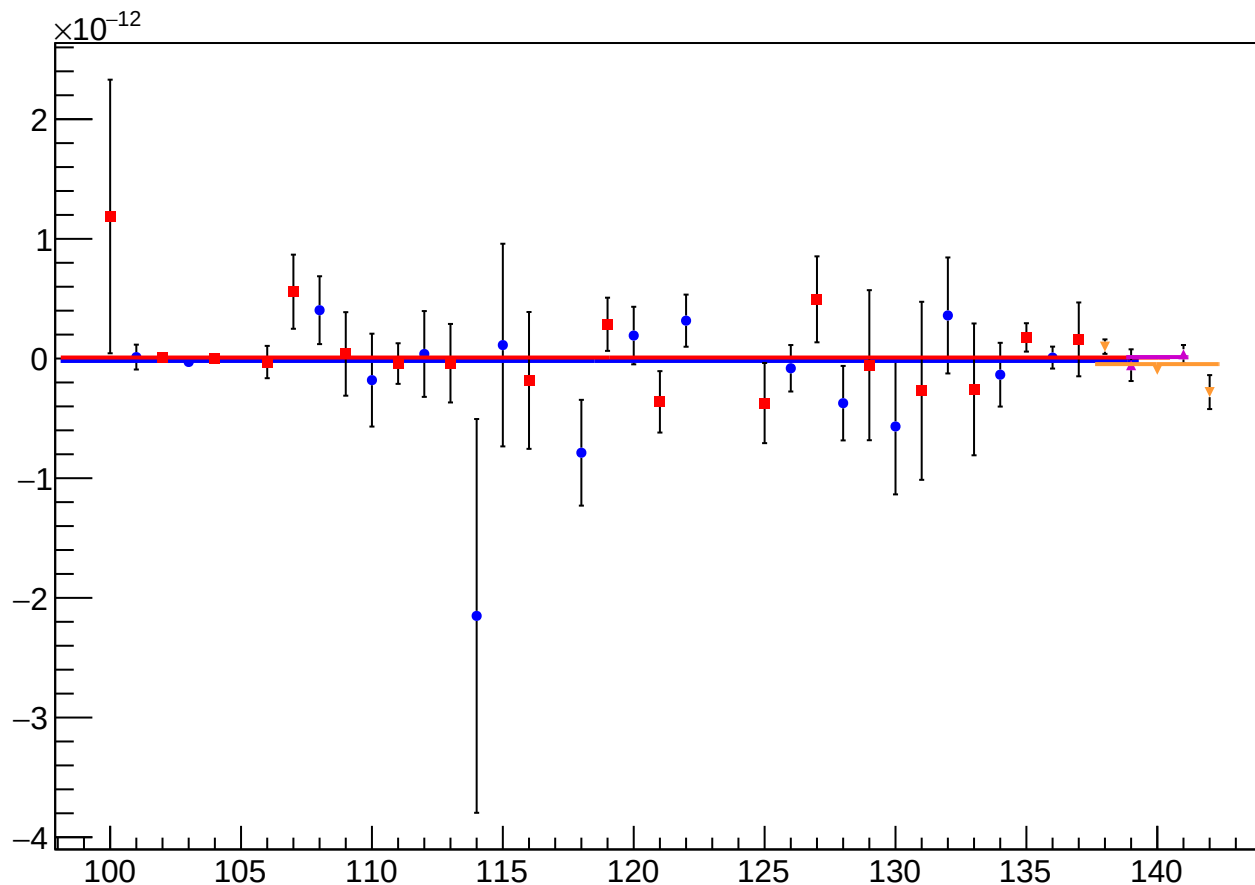
Right: 2178.279+/-0.454 χ^2/NDF : 5110964.0/33

In: 2351.999+/-0.619 χ^2/NDF : 3364937.4/17

Out: 2309.192+/-0.595 χ^2/NDF : 2837182.8/20

All: 2329.745+/-0.429 χ^2/NDF : 6204605.7/38

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 13.7/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 9.9/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 14.0/17

Left In: 0.000 ± 0.000 χ^2/NDF : 0.4/1

Left: -0.000 ± 0.000 χ^2/NDF : 10.9/4

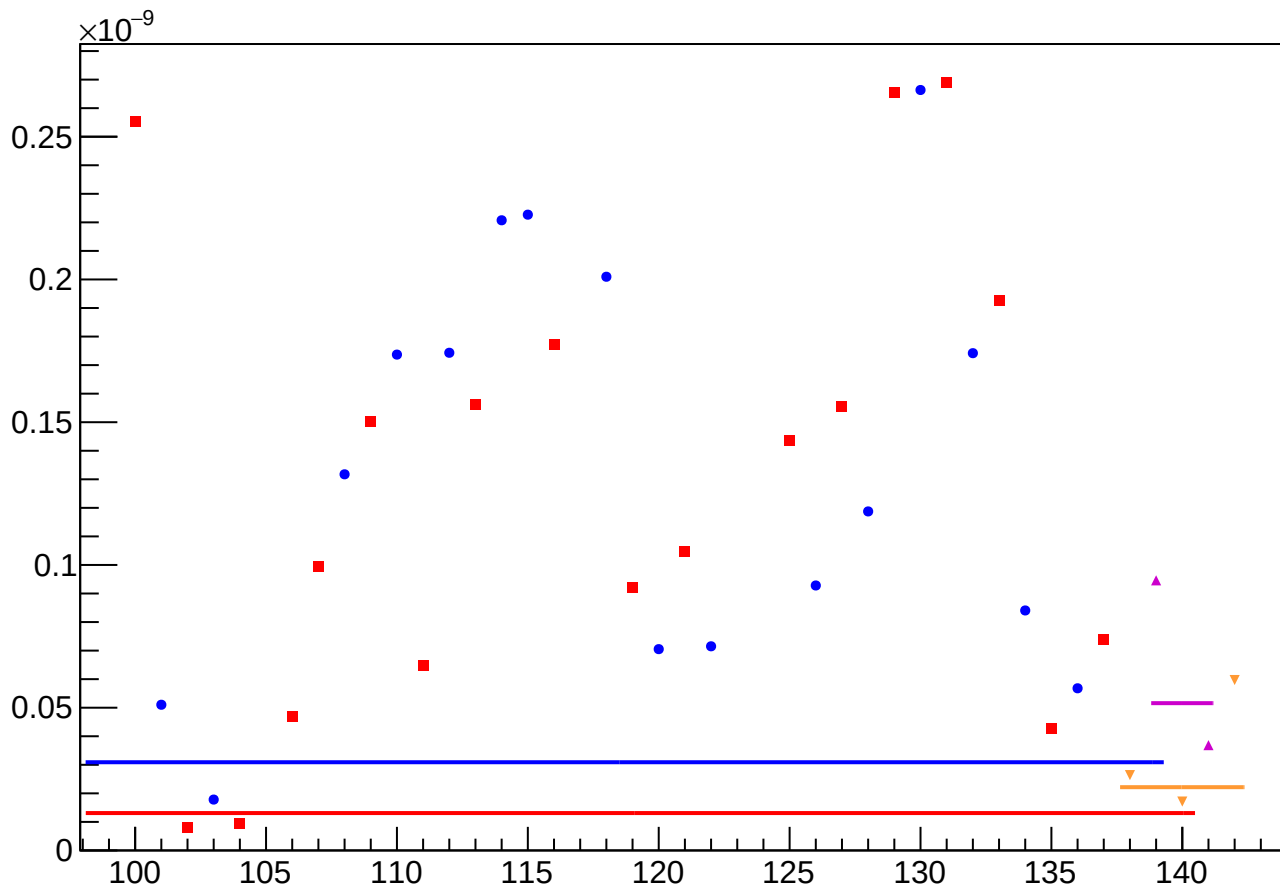
Right: 0.000 ± 0.000 χ^2/NDF : 28.7/33

In: -0.000 ± 0.000 χ^2/NDF : 14.3/17

Out: -0.000 ± 0.000 χ^2/NDF : 26.2/20

All: -0.000 ± 0.000 χ^2/NDF : 40.8/38

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 2998577.8/15

Left Out: 0.000+/-0.000

χ^2/NDF : 180092.6/2

Right Out: 0.000+/-0.000

χ^2/NDF : 3659260.7/17

Left In: 0.000+/-0.000

χ^2/NDF : 282744.3/1

Left: 0.000+/-0.000

χ^2/NDF : 774480.0/4

Right: 0.000+/-0.000

χ^2/NDF : 7385142.0/33

In: 0.000+/-0.000

χ^2/NDF : 3448441.0/17

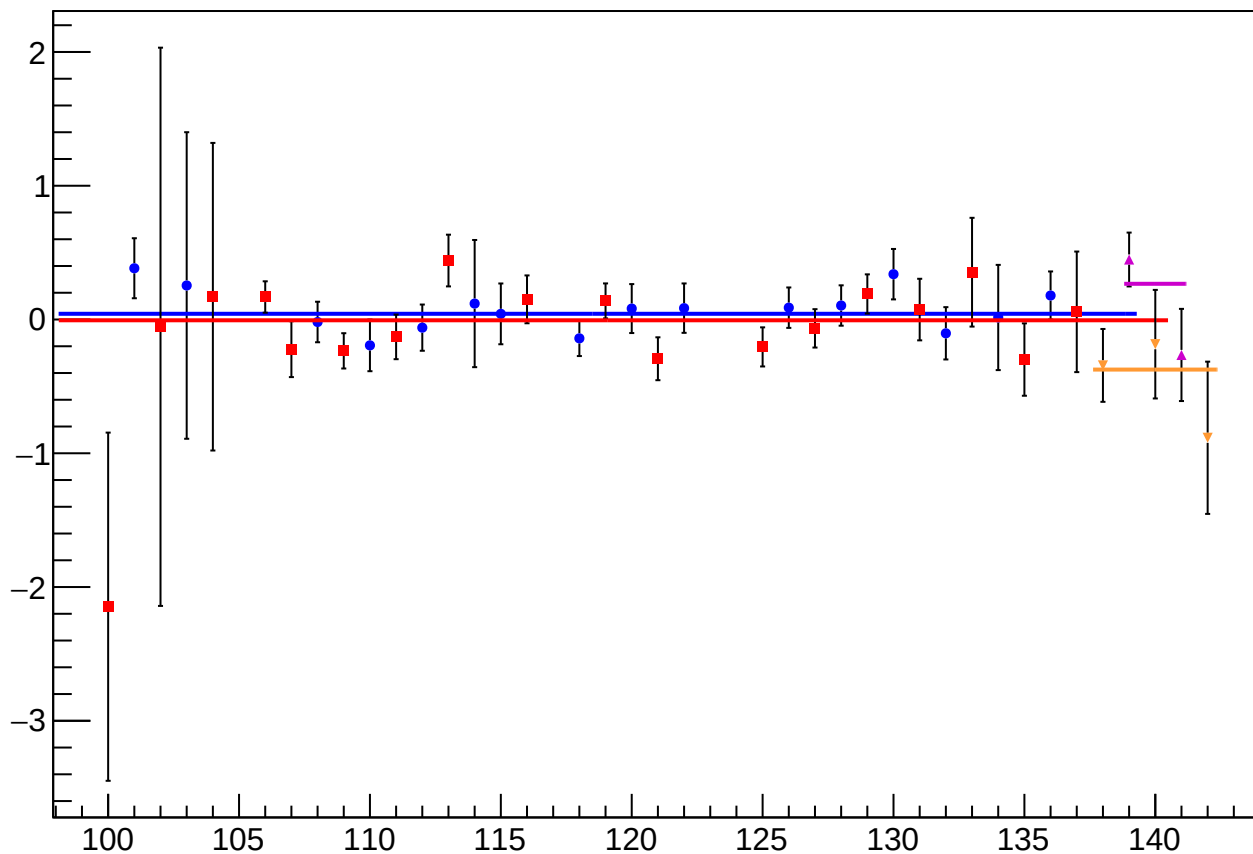
Out: 0.000+/-0.000

χ^2/NDF : 3965284.8/20

All: 0.000+/-0.000

χ^2/NDF : 8363051.0/38

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.043 ± 0.047 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -0.374 ± 0.210 $\chi^2/\text{NDF}: 1.0/2$

Right Out: -0.006 ± 0.043 $\chi^2/\text{NDF}: 26.0/17$

Left In: 0.267 ± 0.174 $\chi^2/\text{NDF}: 3.2/1$

Left: 0.006 ± 0.134 $\chi^2/\text{NDF}: 9.8/4$

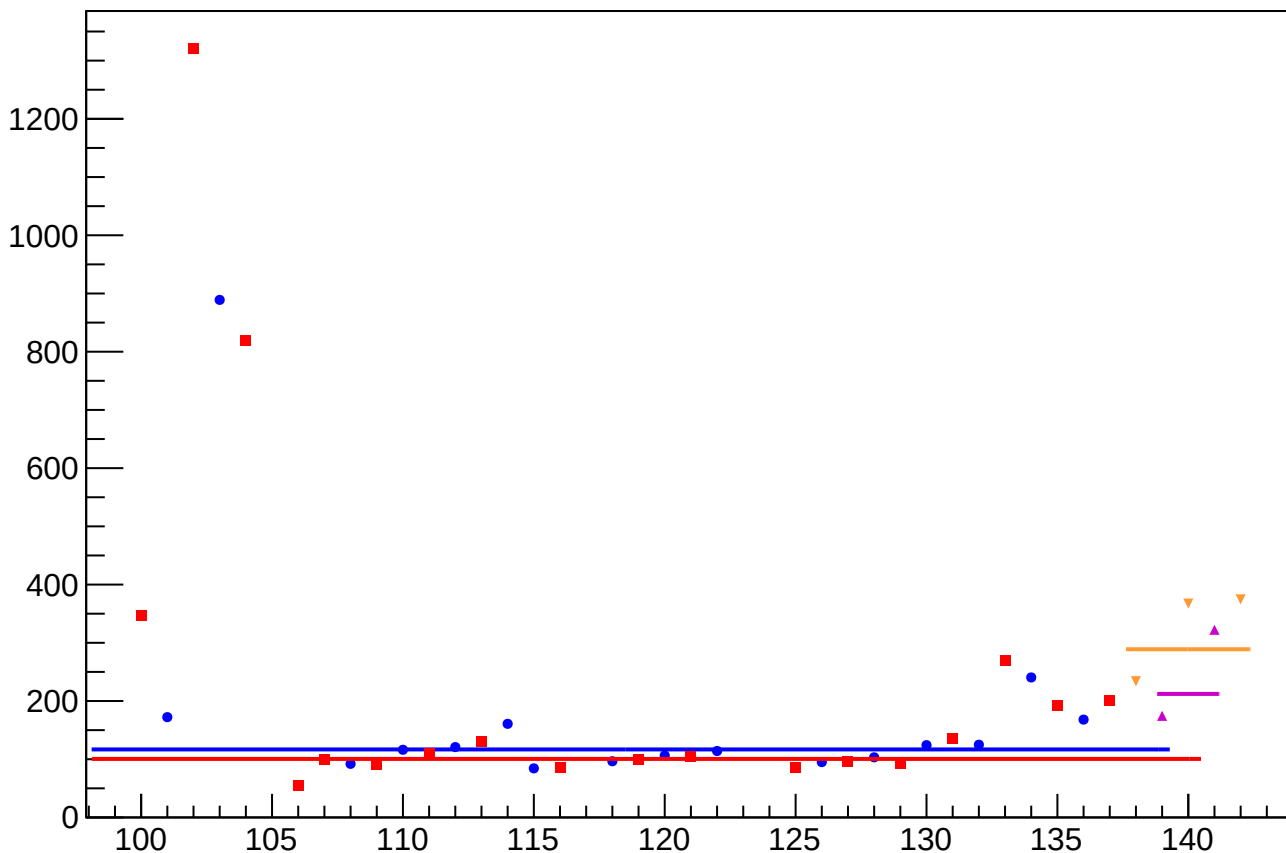
Right: 0.016 ± 0.032 $\chi^2/\text{NDF}: 36.9/33$

In: 0.058 ± 0.046 $\chi^2/\text{NDF}: 15.0/17$

Out: -0.021 ± 0.042 $\chi^2/\text{NDF}: 30.0/20$

All: 0.016 ± 0.031 $\chi^2/\text{NDF}: 46.6/38$

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 116.841 $\pm$ 0.034 χ^2 /NDF: 1620809.7/15

Left Out: 288.935 $\pm$ 0.149 χ^2 /NDF: 201602.6/2

Right Out: 100.544 $\pm$ 0.031 χ^2 /NDF: 2664151.6/17

Left In: 212.187 $\pm$ 0.123 χ^2 /NDF: 274447.8/1

Left: 243.358 $\pm$ 0.095 χ^2 /NDF: 634447.9/4

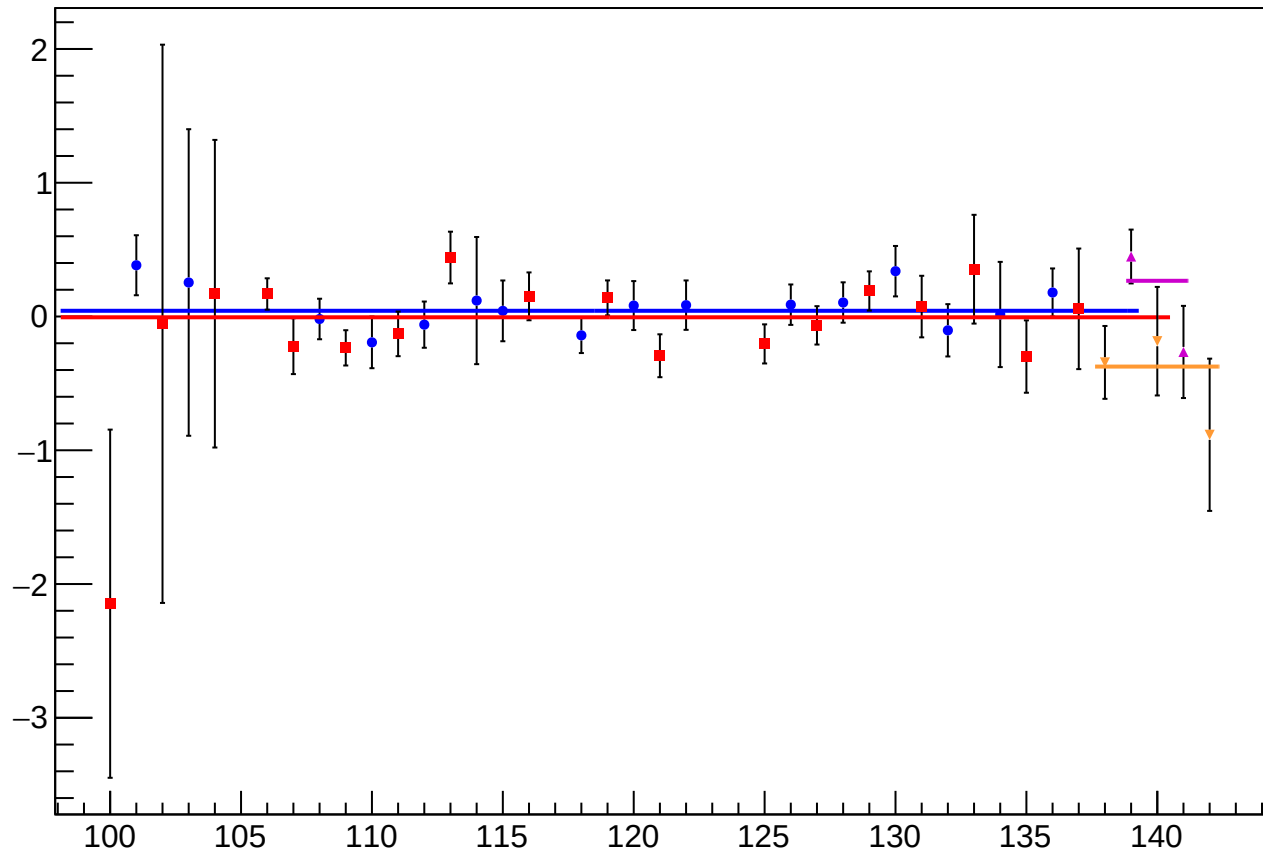
Right: 107.961 $\pm$ 0.023 χ^2 /NDF: 4413433.8/33

In: 123.459 $\pm$ 0.032 χ^2 /NDF: 2455411.4/17

Out: 108.243 $\pm$ 0.030 χ^2 /NDF: 4407216.3/20

All: 115.282 $\pm$ 0.022 χ^2 /NDF: 6981318.0/38

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.043+/-0.047 χ^2/NDF : 10.3/15

Left Out: -0.374+/-0.210 χ^2/NDF : 1.0/2

Right Out: -0.006+/-0.043 χ^2/NDF : 26.0/17

Left In: 0.267+/-0.174 χ^2/NDF : 3.2/1

Left: 0.006+/-0.134 χ^2/NDF : 9.8/4

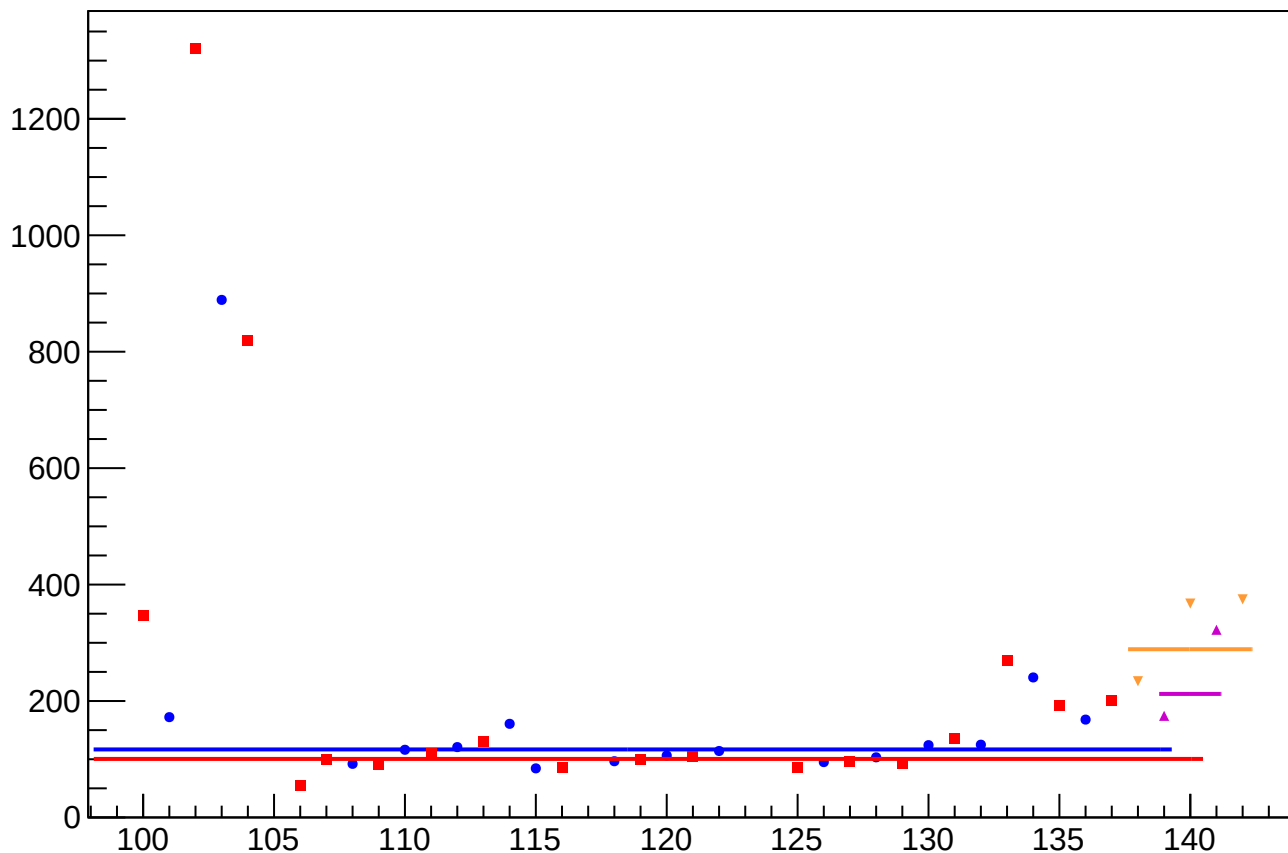
Right: 0.016+/-0.032 χ^2/NDF : 36.9/33

In: 0.058+/-0.046 χ^2/NDF : 15.0/17

Out: -0.021+/-0.042 χ^2/NDF : 30.0/20

All: 0.016+/-0.031 χ^2/NDF : 46.6/38

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 116.841+/-0.034 χ^2/NDF : 1620809.7/15

Left Out: 288.935+/-0.149 χ^2/NDF : 201602.6/2

Right Out: 100.544+/-0.031 χ^2/NDF : 2664151.6/17

Left In: 212.187+/-0.123 χ^2/NDF : 274447.8/1

Left: 243.358+/-0.095 χ^2/NDF : 634447.9/4

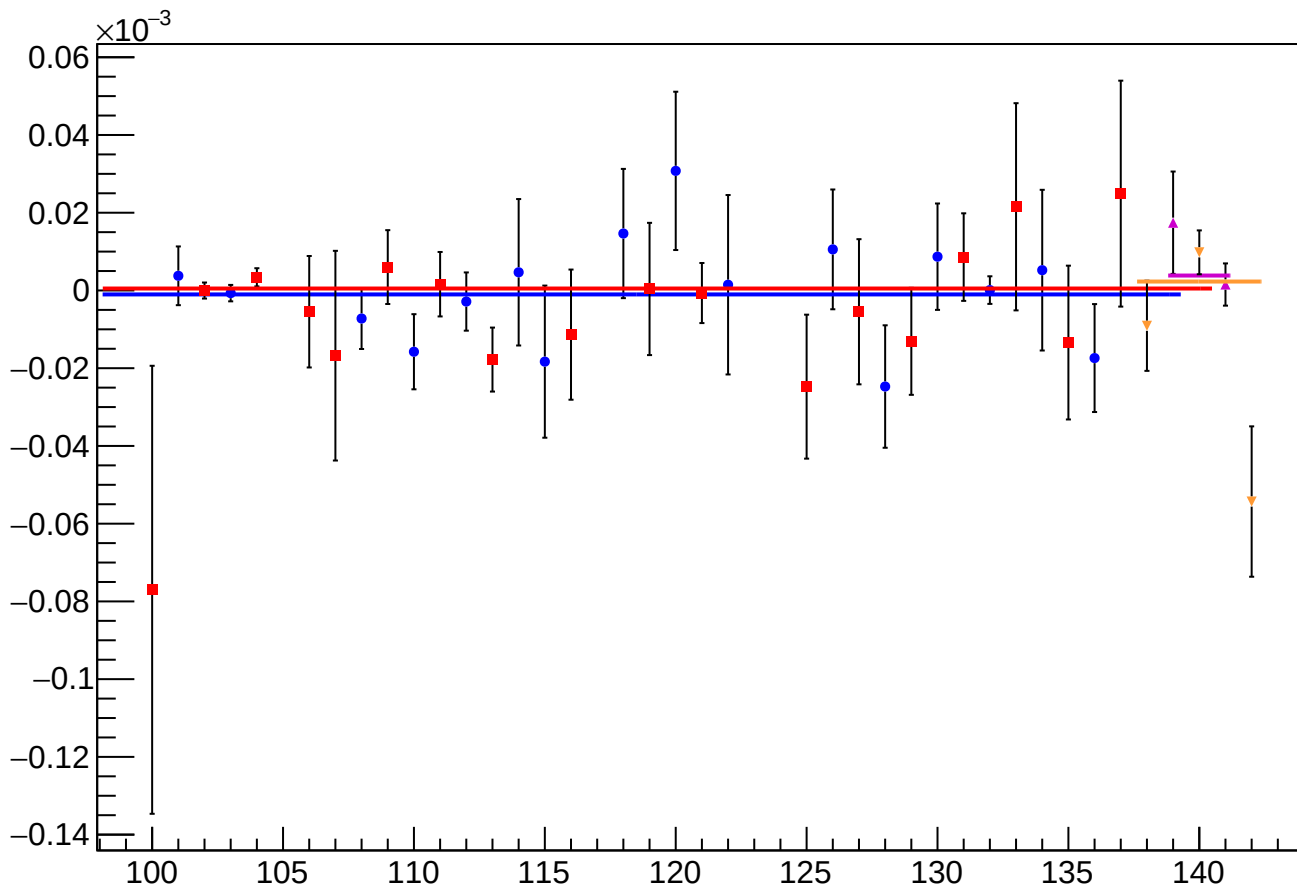
Right: 107.961+/-0.023 χ^2/NDF : 4413433.8/33

In: 123.459+/-0.032 χ^2/NDF : 2455411.4/17

Out: 108.243+/-0.030 χ^2/NDF : 4407216.3/20

All: 115.282+/-0.022 χ^2/NDF : 6981318.0/38

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 12.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 11.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 15.1/17

Left In: 0.000+/-0.000 χ^2/NDF : 1.2/1

Left: 0.000+/-0.000 χ^2/NDF : 12.6/4

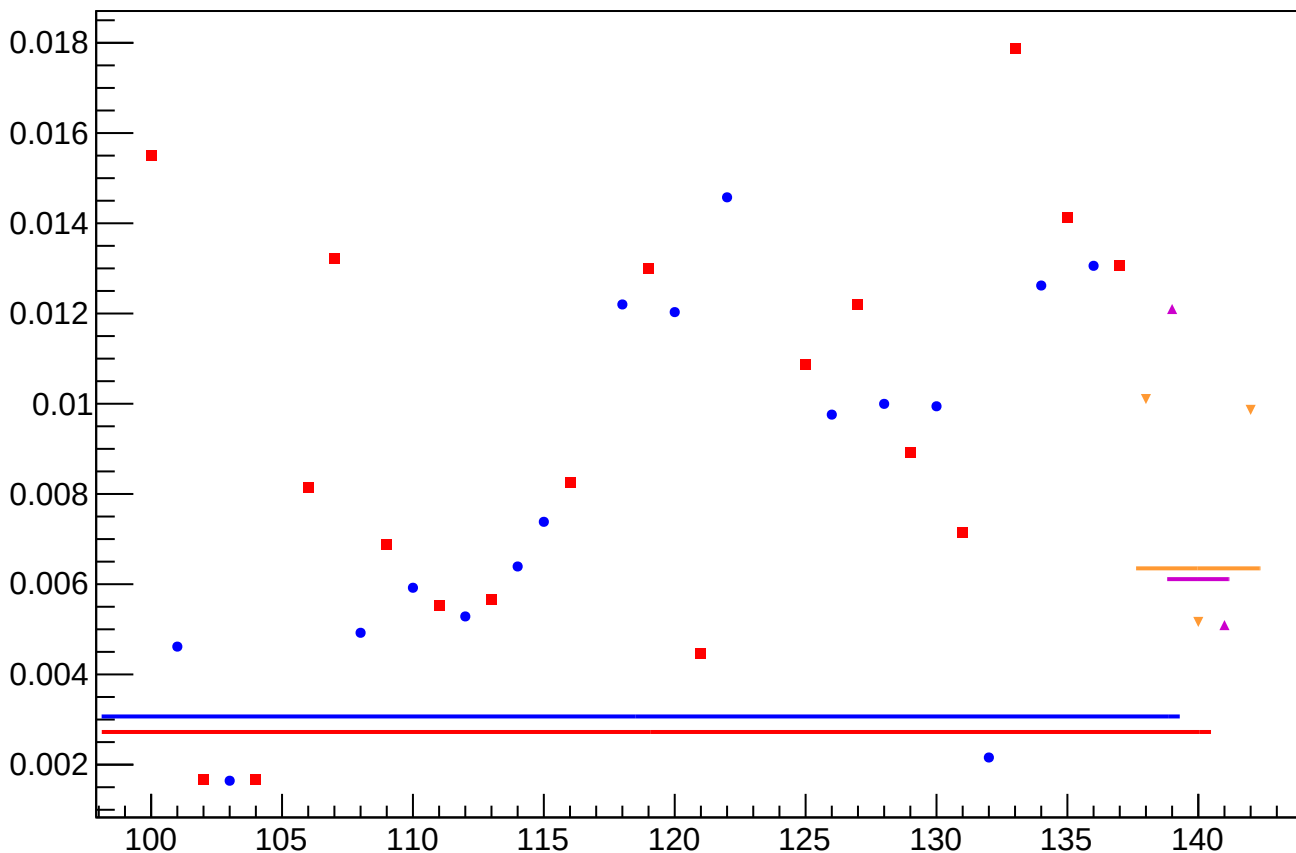
Right: -0.000+/-0.000 χ^2/NDF : 28.1/33

In: -0.000+/-0.000 χ^2/NDF : 14.7/17

Out: 0.000+/-0.000 χ^2/NDF : 26.5/20

All: 0.000+/-0.000 χ^2/NDF : 41.5/38

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 5964299.9/15

Left Out: 0.006+/-0.000 χ^2/NDF : 363807.2/2

Right Out: 0.003+/-0.000 χ^2/NDF : 6713699.1/17

Left In: 0.006+/-0.000 χ^2/NDF : 484002.8/1

Left: 0.006+/-0.000 χ^2/NDF : 850121.0/4

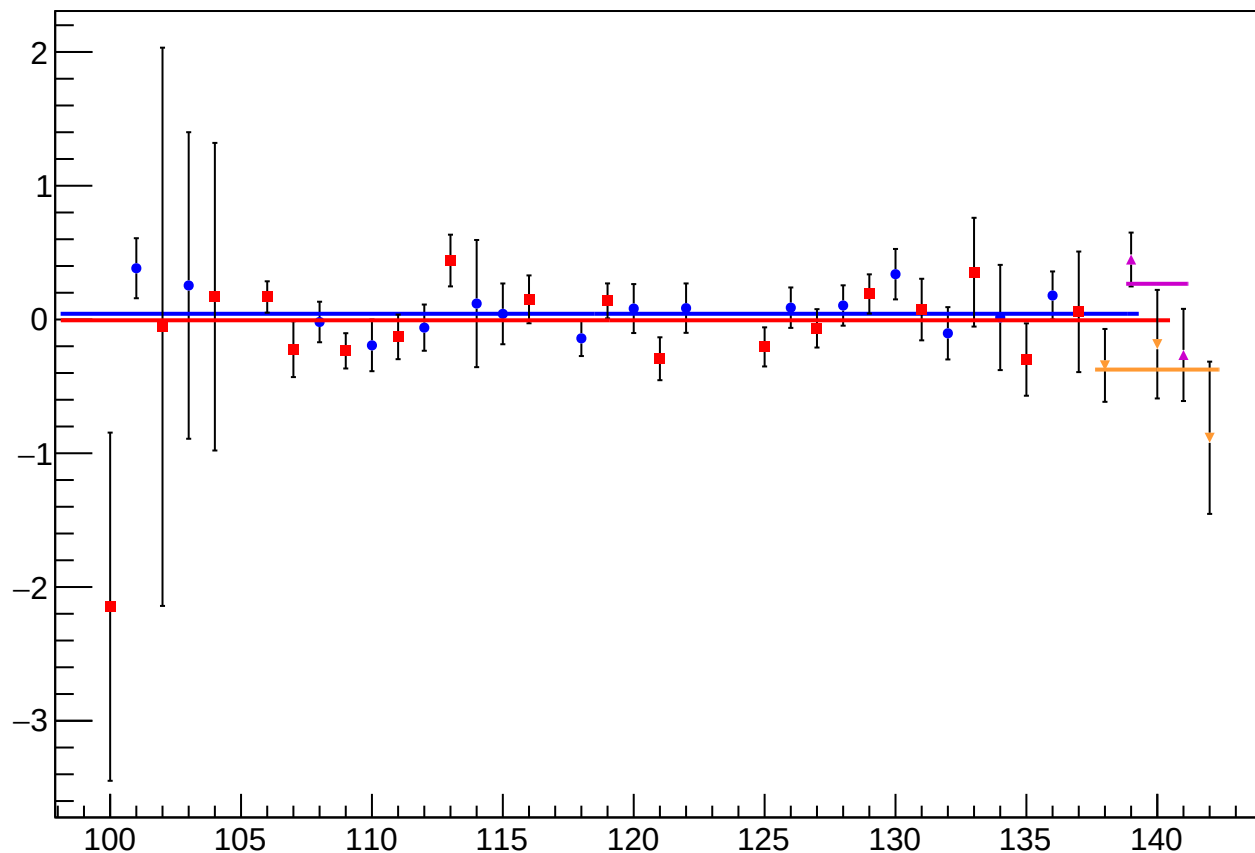
Right: 0.003+/-0.000 χ^2/NDF : 12731216.4/33

In: 0.003+/-0.000 χ^2/NDF : 7117053.0/17

Out: 0.003+/-0.000 χ^2/NDF : 8087363.4/20

All: 0.003+/-0.000 χ^2/NDF : 15263559.3/38

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.043 $\pm$ 0.047 χ^2 /NDF: 10.3/15

Left Out: -0.374 $\pm$ 0.210 χ^2 /NDF:1.0/2

Right Out: -0.006 $\pm$ 0.043 χ^2 /NDF: 26.0/17

Left In: 0.267 $\pm$ 0.174 χ^2 /NDF:3.2/1

Left: 0.006 $\pm$ 0.134 χ^2 /NDF: 9.8/4

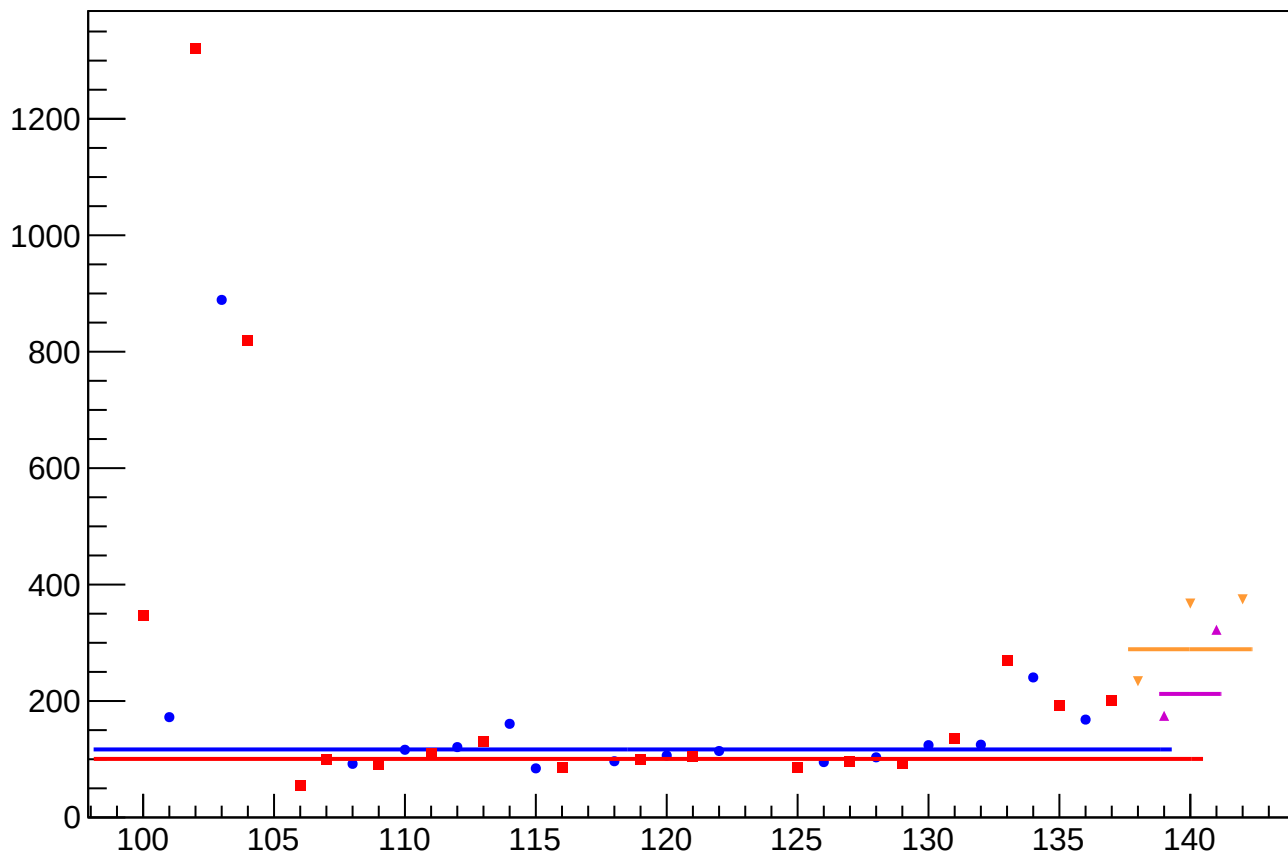
Right: 0.016 $\pm$ 0.032 χ^2 /NDF: 36.9/33

In: 0.058 $\pm$ 0.046 χ^2 /NDF:15.0/17

Out: -0.021 $\pm$ 0.042 χ^2 /NDF:30.0/20

All: 0.016 $\pm$ 0.031 χ^2 /NDF: 46.6/38

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 116.841 $\pm$ 0.034 χ^2 /NDF: 1620812.6/15

Left Out: 288.938 $\pm$ 0.149 χ^2 /NDF: 201598.0/2

Right Out: 100.543 $\pm$ 0.031 χ^2 /NDF: 2664231.9/17

Left In: 212.192 $\pm$ 0.123 χ^2 /NDF: 274430.1/1

Left: 243.362 $\pm$ 0.095 χ^2 /NDF: 634414.7/4

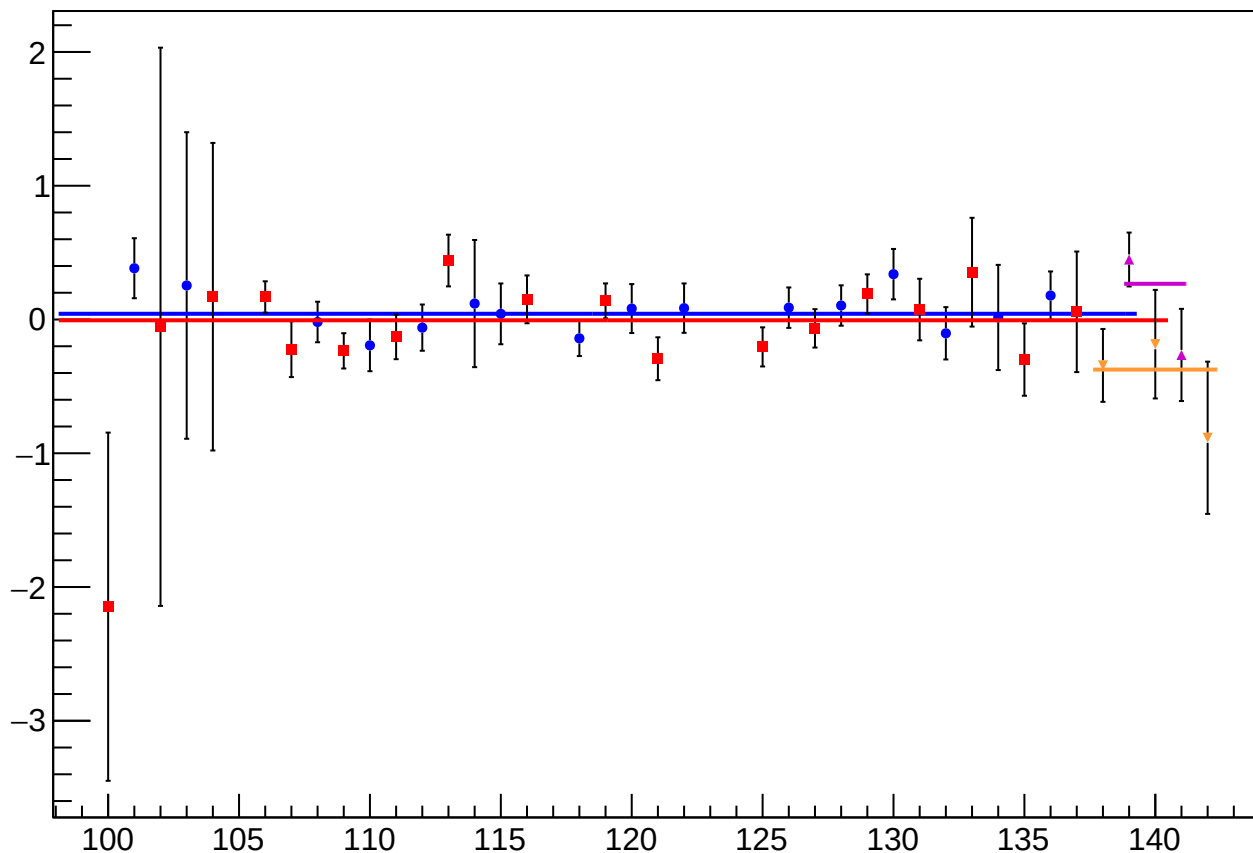
Right: 107.960 $\pm$ 0.023 χ^2 /NDF: 4413531.7/33

In: 123.459 $\pm$ 0.032 χ^2 /NDF: 2455432.1/17

Out: 108.242 $\pm$ 0.030 χ^2 /NDF: 4407329.9/20

All: 115.282 $\pm$ 0.022 χ^2 /NDF: 6981468.8/38

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.043 $\pm$ 0.047 χ^2 /NDF: 10.3/15

Left Out: -0.374 $\pm$ 0.210 χ^2 /NDF:1.0/2

Right Out: -0.006 $\pm$ 0.043 χ^2 /NDF: 26.0/17

Left In: 0.267 $\pm$ 0.174 χ^2 /NDF:3.2/1

Left: 0.006 $\pm$ 0.134 χ^2 /NDF: 9.8/4

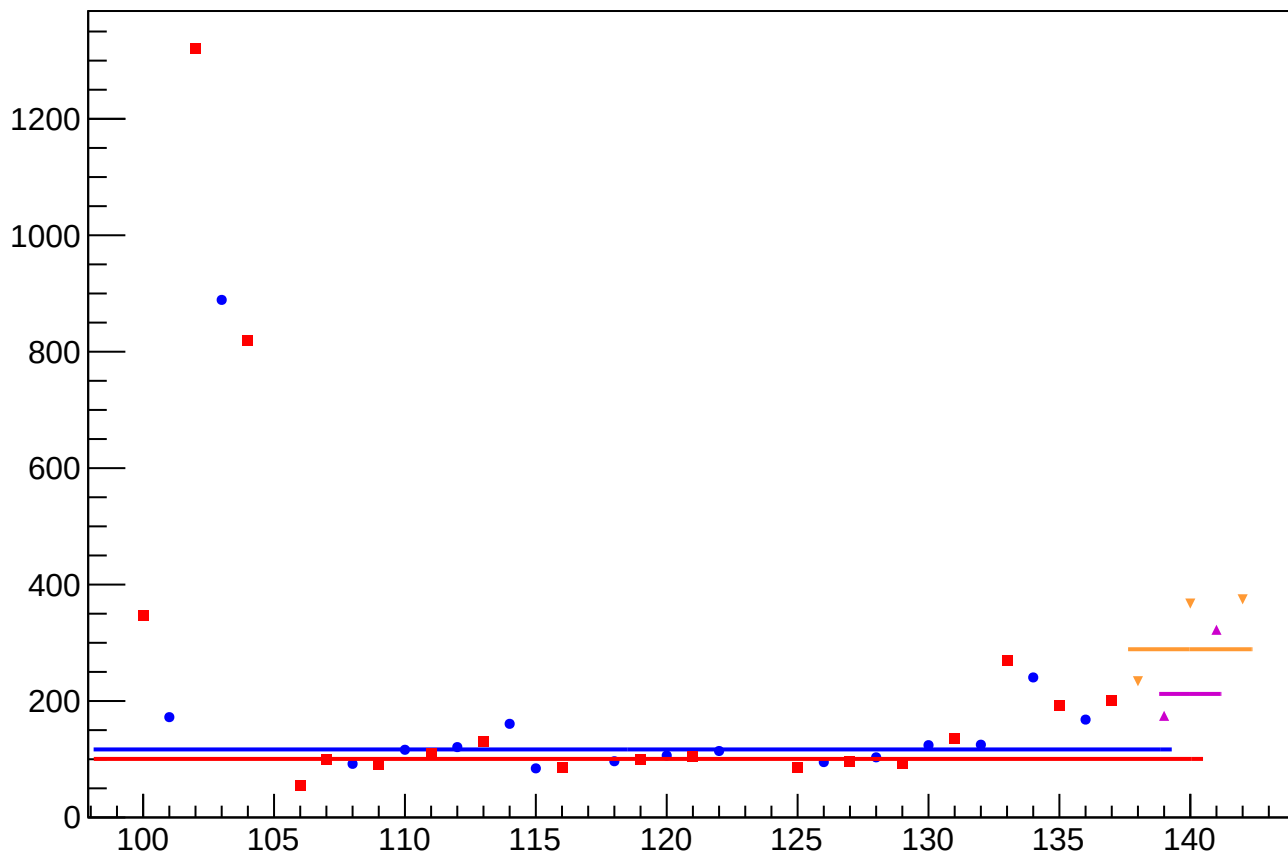
Right: 0.016 $\pm$ 0.032 χ^2 /NDF: 36.9/33

In: 0.058 $\pm$ 0.046 χ^2 /NDF:15.0/17

Out: -0.021 $\pm$ 0.042 χ^2 /NDF:30.0/20

All: 0.016 $\pm$ 0.031 χ^2 /NDF: 46.6/38

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 116.841 $\pm$ 0.034 χ^2 /NDF: 1620812.6/15

Left Out: 288.938 $\pm$ 0.149 χ^2 /NDF:201598.0/2

Right Out: 100.543 $\pm$ 0.031 χ^2 /NDF: 2664231.9/17

Left In: 212.192 $\pm$ 0.123 χ^2 /NDF:274430.1/1

Left: 243.362 $\pm$ 0.095 χ^2 /NDF: 634414.7/4

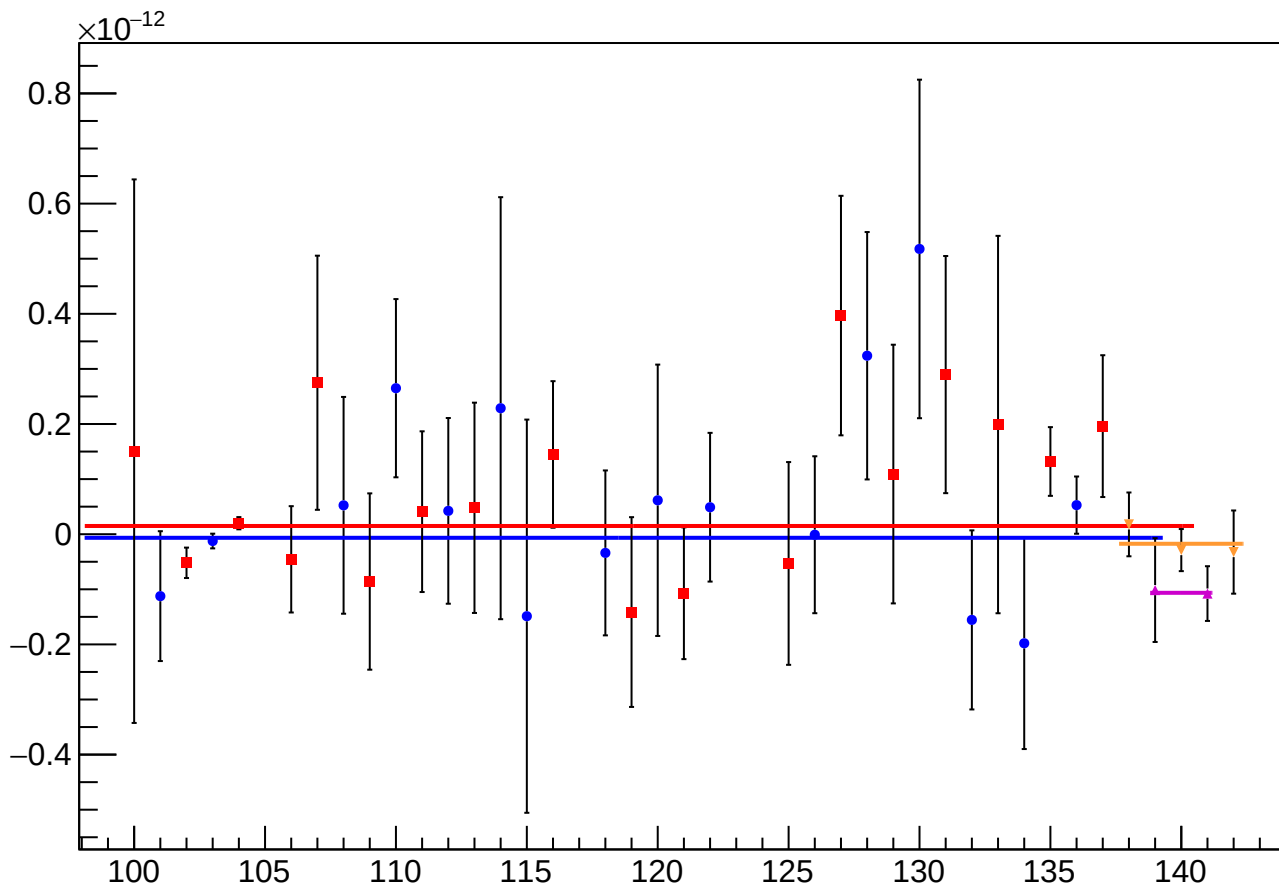
Right: 107.960 $\pm$ 0.023 χ^2 /NDF: 4413531.7/33

In: 123.459 $\pm$ 0.032 χ^2 /NDF:2455432.1/17

Out: 108.242 $\pm$ 0.030 χ^2 /NDF:4407329.9/20

All: 115.282 $\pm$ 0.022 χ^2 /NDF: 6981468.8/38

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 13.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 21.9/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 3.3/4

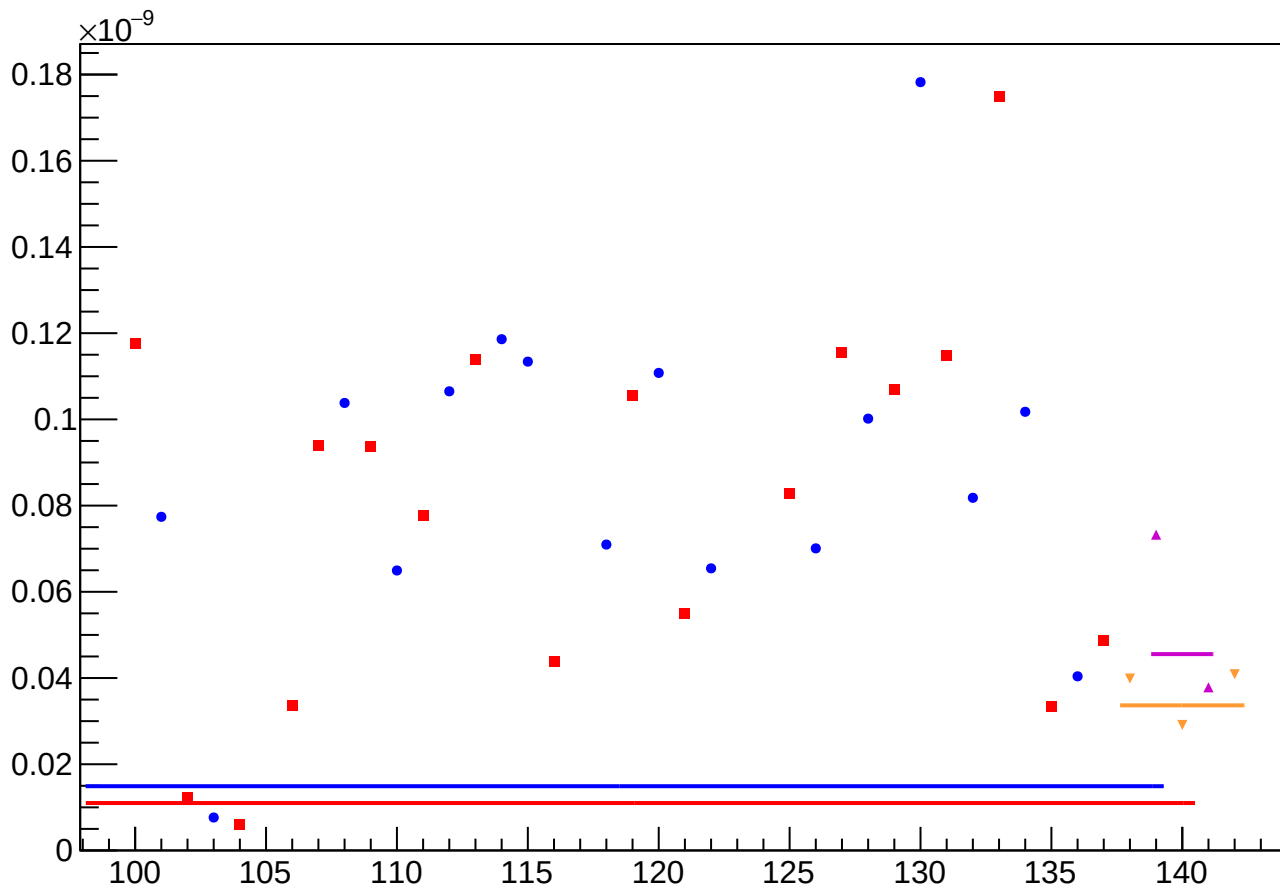
Right: 0.000+/-0.000 χ^2/NDF : 36.7/33

In: -0.000+/-0.000 χ^2/NDF : 17.8/17

Out: 0.000+/-0.000 χ^2/NDF : 23.5/20

All: 0.000+/-0.000 χ^2/NDF : 44.1/38

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5893030.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 69680.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 5866969.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 221177.9/1

Left: 0.000+/-0.000 χ^2/NDF : 392032.7/4

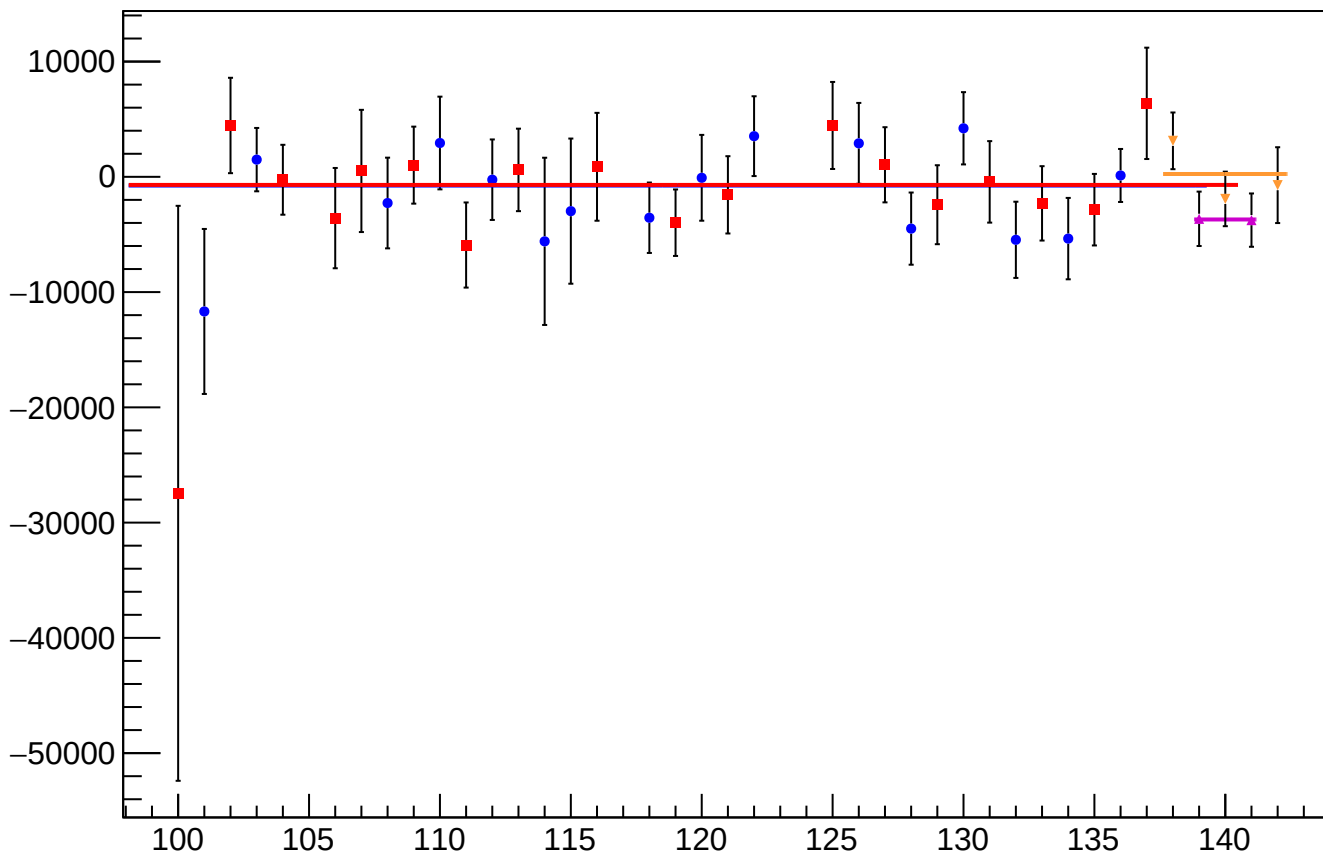
Right: 0.000+/-0.000 χ^2/NDF : 11880361.2/33

In: 0.000+/-0.000 χ^2/NDF : 7014893.0/17

Out: 0.000+/-0.000 χ^2/NDF : 7005971.4/20

All: 0.000+/-0.000 χ^2/NDF : 14151189.4/38

reg_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -754.291+/-872.652 χ^2/NDF : 15.9/15

Left Out: 245.668+/-1513.687 χ^2/NDF : 2.3/2

Right Out: -702.198+/-868.647 χ^2/NDF : 12.4/17

Left In: -3700.254+/-1651.617 χ^2/NDF : 0.0/1

Left: -1555.672+/-1115.920 χ^2/NDF : 5.4/4

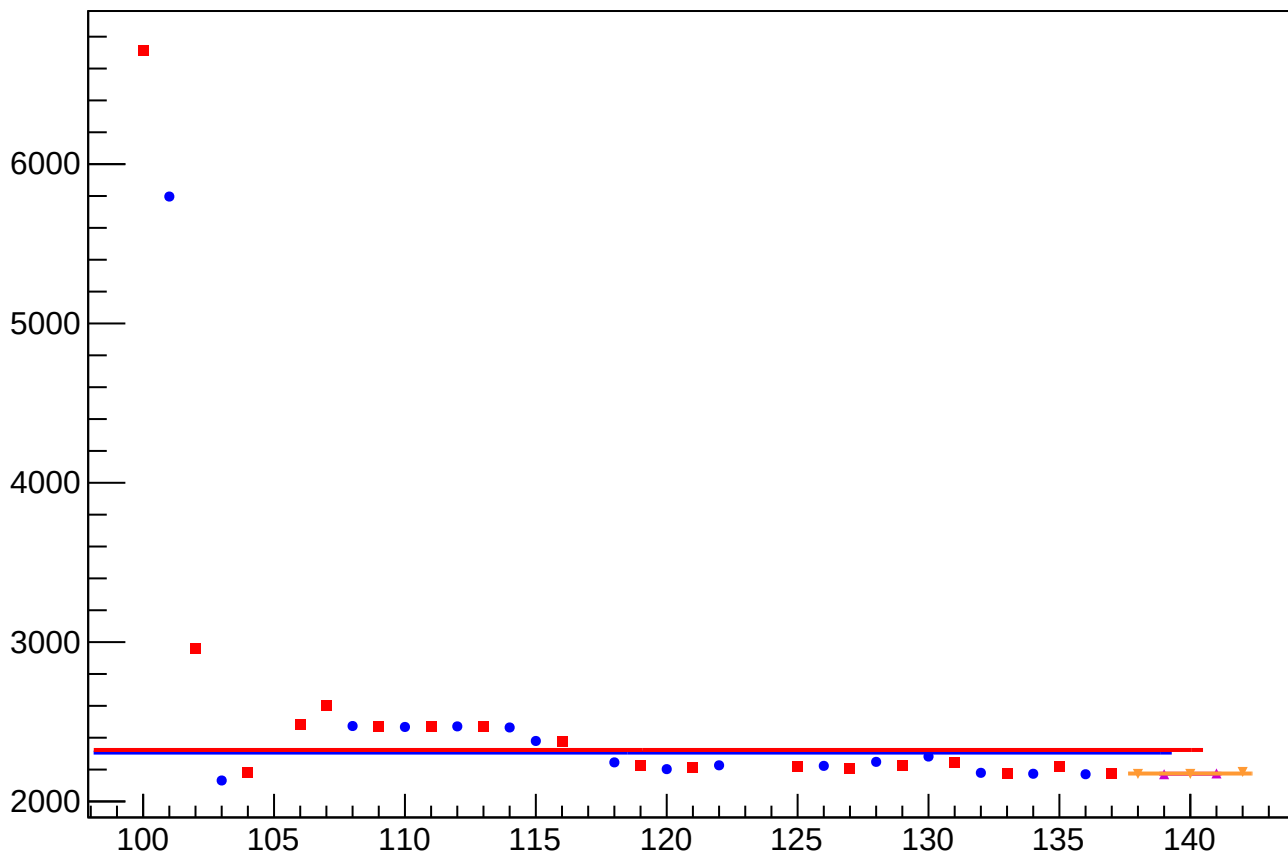
Right: -728.125+/-615.637 χ^2/NDF : 28.2/33

In: -1397.221+/-771.574 χ^2/NDF : 18.4/17

Out: -467.379+/-753.406 χ^2/NDF : 14.9/20

All: -921.224+/-539.047 χ^2/NDF : 34.1/38

reg_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2306.643+/-0.617 χ^2/NDF : 514150.3/15

Left Out: 2175.172+/-1.070 χ^2/NDF : 21.7/2

Right Out: 2323.010+/-0.614 χ^2/NDF : 151787.1/17

Left In: 2173.501+/-1.168 χ^2/NDF : 4.5/1

Left: 2174.409+/-0.789 χ^2/NDF : 27.4/4

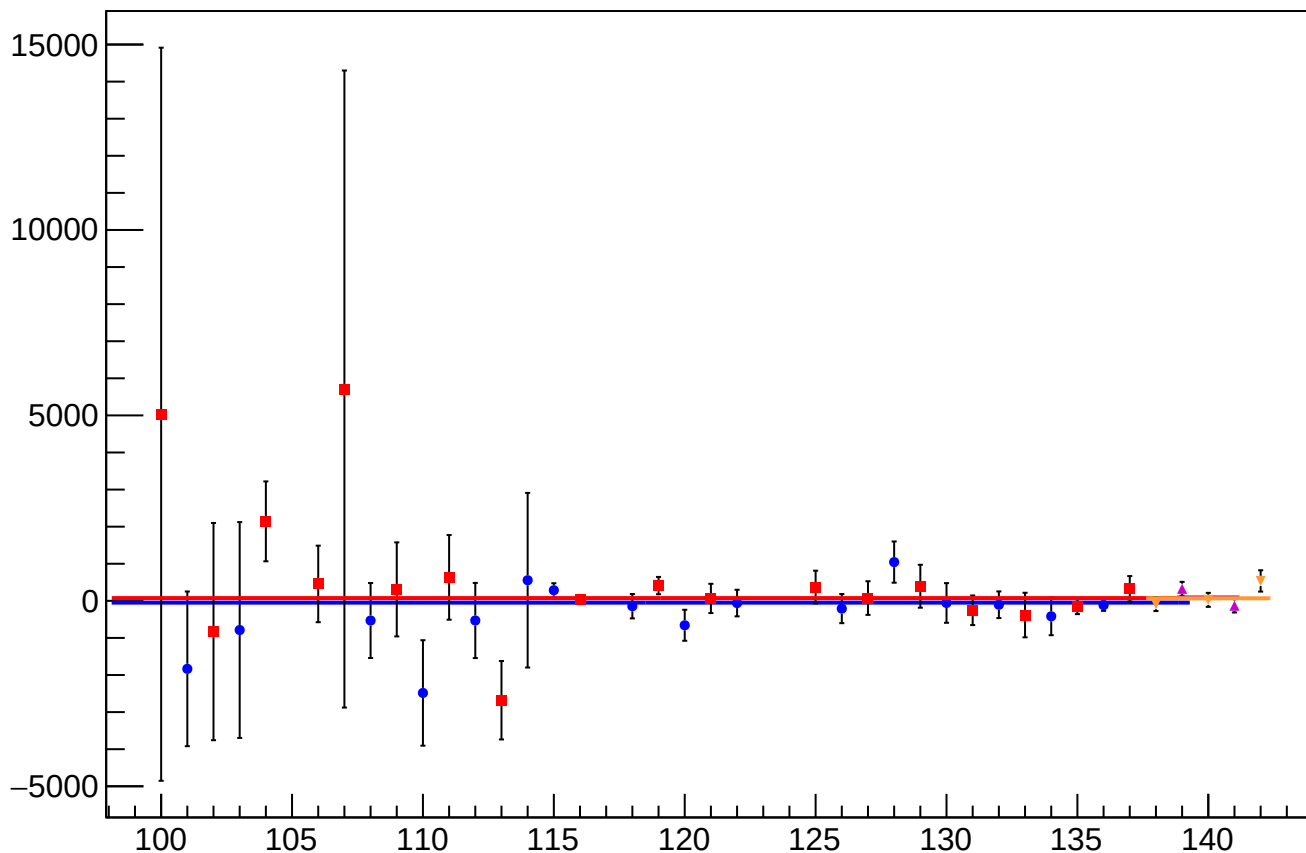
Right: 2314.864+/-0.435 χ^2/NDF : 666290.7/33

In: 2277.586+/-0.546 χ^2/NDF : 524315.3/17

Out: 2286.386+/-0.533 χ^2/NDF : 166160.5/20

All: 2282.091+/-0.381 χ^2/NDF : 690609.0/38

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -47.927 ± 90.914 χ^2/NDF : 14.4/15

Left Out: 68.908 ± 120.729 χ^2/NDF : 3.4/2

Right Out: 74.200 ± 82.384 χ^2/NDF : 17.6/17

Left In: 92.577 ± 130.637 χ^2/NDF : 3.0/1

Left: 79.811 ± 88.664 χ^2/NDF : 6.5/4

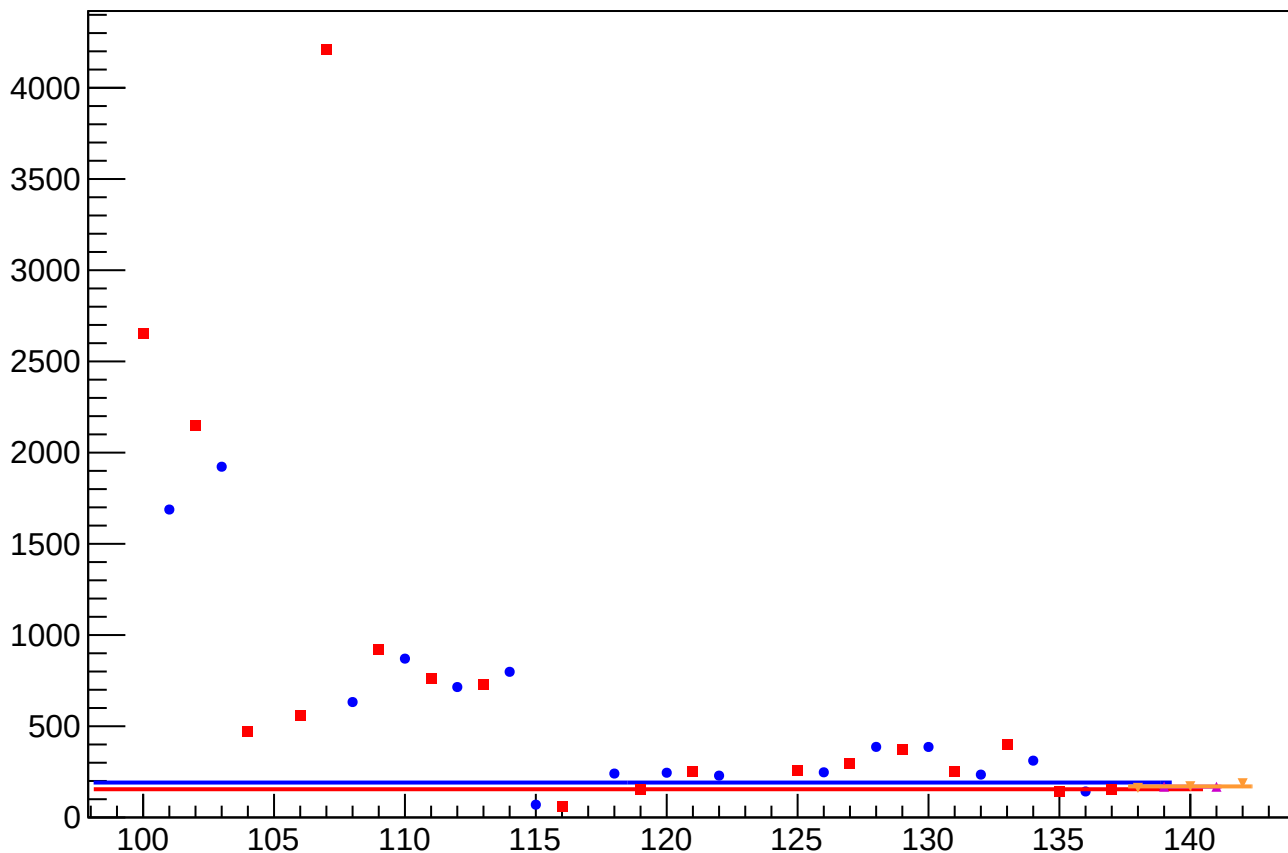
Right: 19.134 ± 61.048 χ^2/NDF : 33.0/33

In: -2.081 ± 74.622 χ^2/NDF : 18.2/17

Out: 72.519 ± 68.050 χ^2/NDF : 21.0/20

All: 38.648 ± 50.282 χ^2/NDF : 39.8/38

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 191.381+/-0.064 χ^2/NDF : 5064747.7/15

Left Out: 170.141+/-0.085 χ^2/NDF :11016.0/2

Right Out: 154.677+/-0.058 χ^2/NDF : 6154285.9/17

Left In: 168.694+/-0.092 χ^2/NDF :3.2/1

Left: 169.475+/-0.063 χ^2/NDF : 11151.5/4

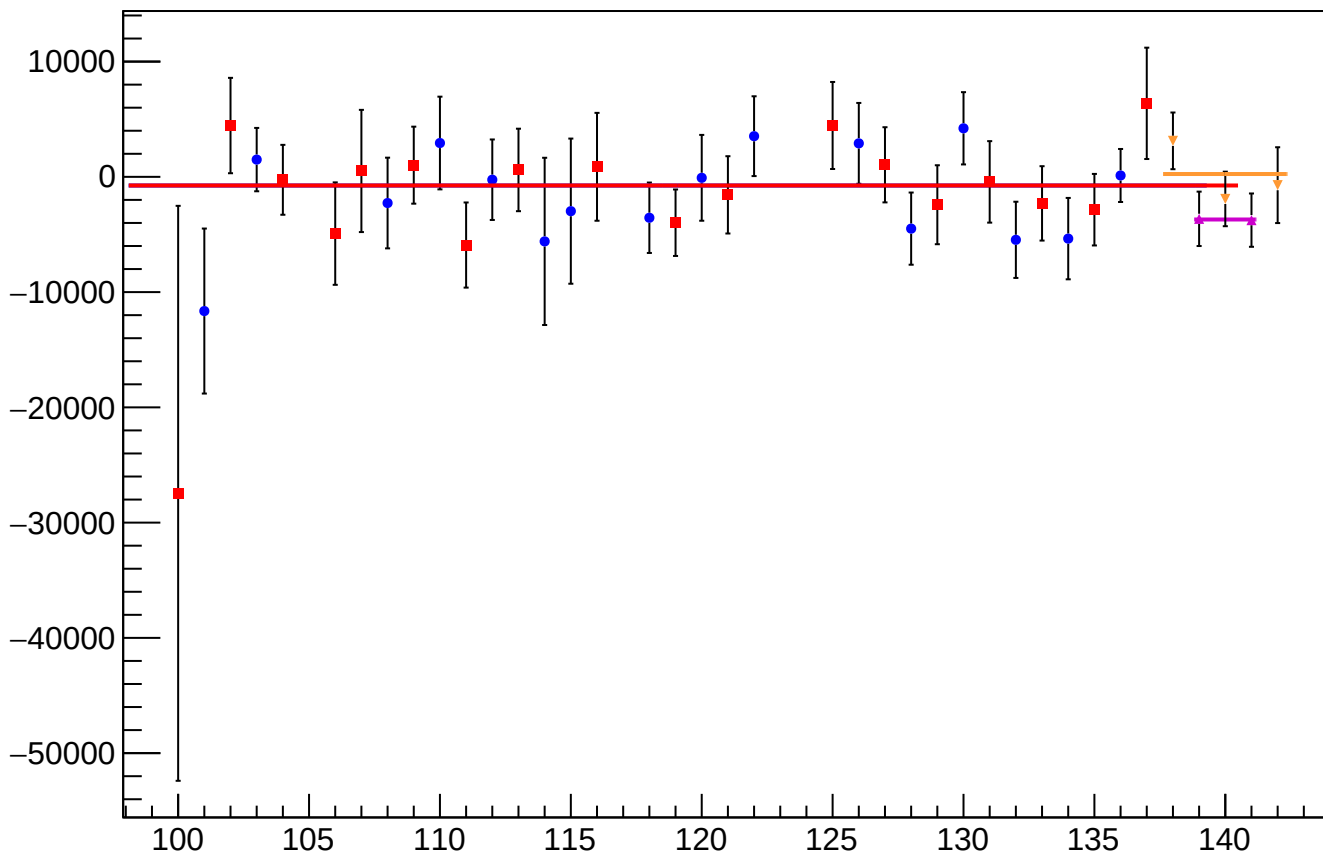
Right: 171.226+/-0.043 χ^2/NDF : 11398031.5/33

In: 183.978+/-0.053 χ^2/NDF :5105385.2/17

Out: 159.590+/-0.048 χ^2/NDF :6187692.3/20

All: 170.663+/-0.036 χ^2/NDF : 11409712.4/38

cor_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -753.322+/-872.653 χ^2/NDF : 15.9/15

Left Out: 245.756+/-1513.687 χ^2/NDF : 2.3/2

Right Out: -749.316+/-869.366 χ^2/NDF : 12.8/17

Left In: -3700.313+/-1651.617 χ^2/NDF : 0.0/1

Left: -1555.651+/-1115.920 χ^2/NDF : 5.4/4

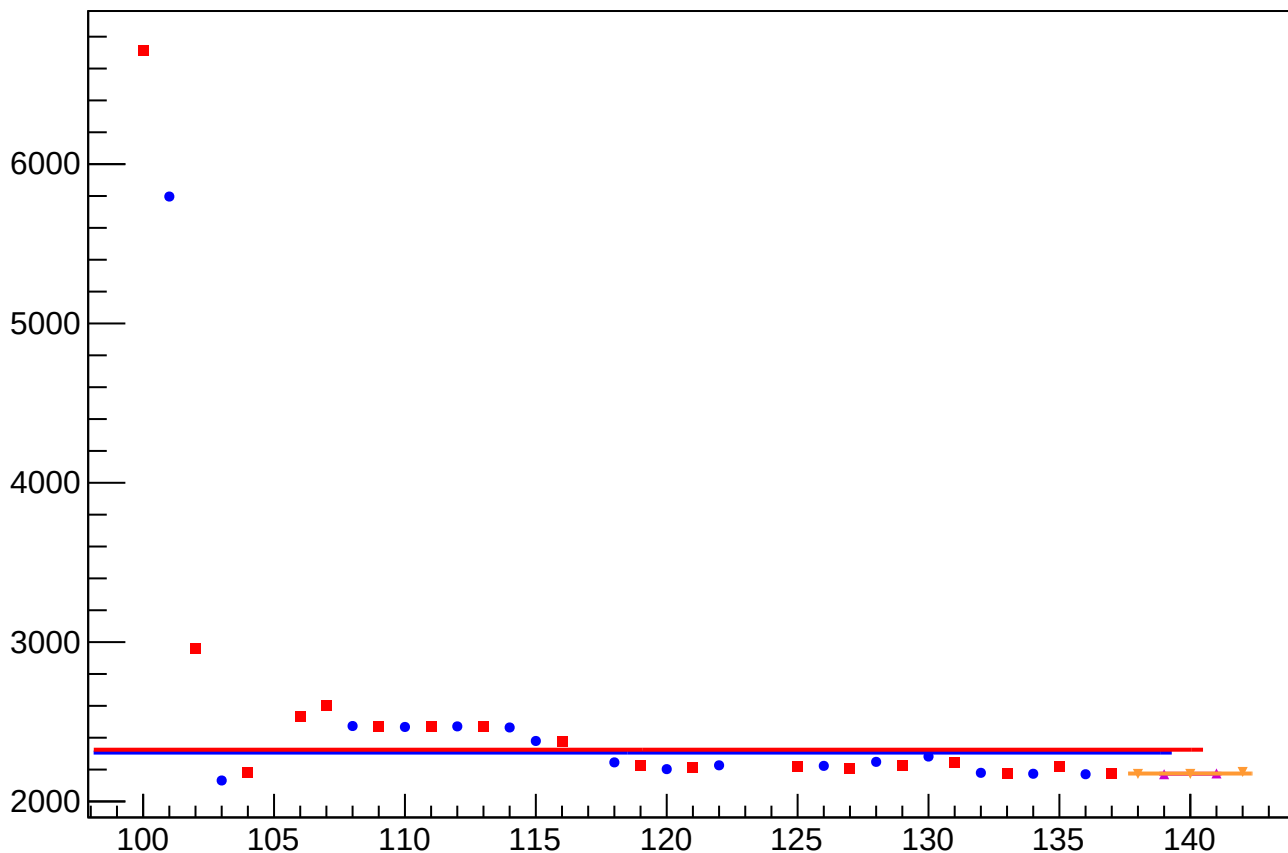
Right: -751.312+/-615.893 χ^2/NDF : 28.7/33

In: -1396.477+/-771.574 χ^2/NDF : 18.4/17

Out: -502.496+/-753.875 χ^2/NDF : 15.4/20

All: -939.115+/-539.219 χ^2/NDF : 34.5/38

cor_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2306.643+/-0.617 χ^2/NDF : 514150.6/15

Left Out: 2175.172+/-1.070 χ^2/NDF : 21.7/2

Right Out: 2324.685+/-0.615 χ^2/NDF : 153578.5/17

Left In: 2173.501+/-1.168 χ^2/NDF : 4.5/1

Left: 2174.409+/-0.789 χ^2/NDF : 27.4/4

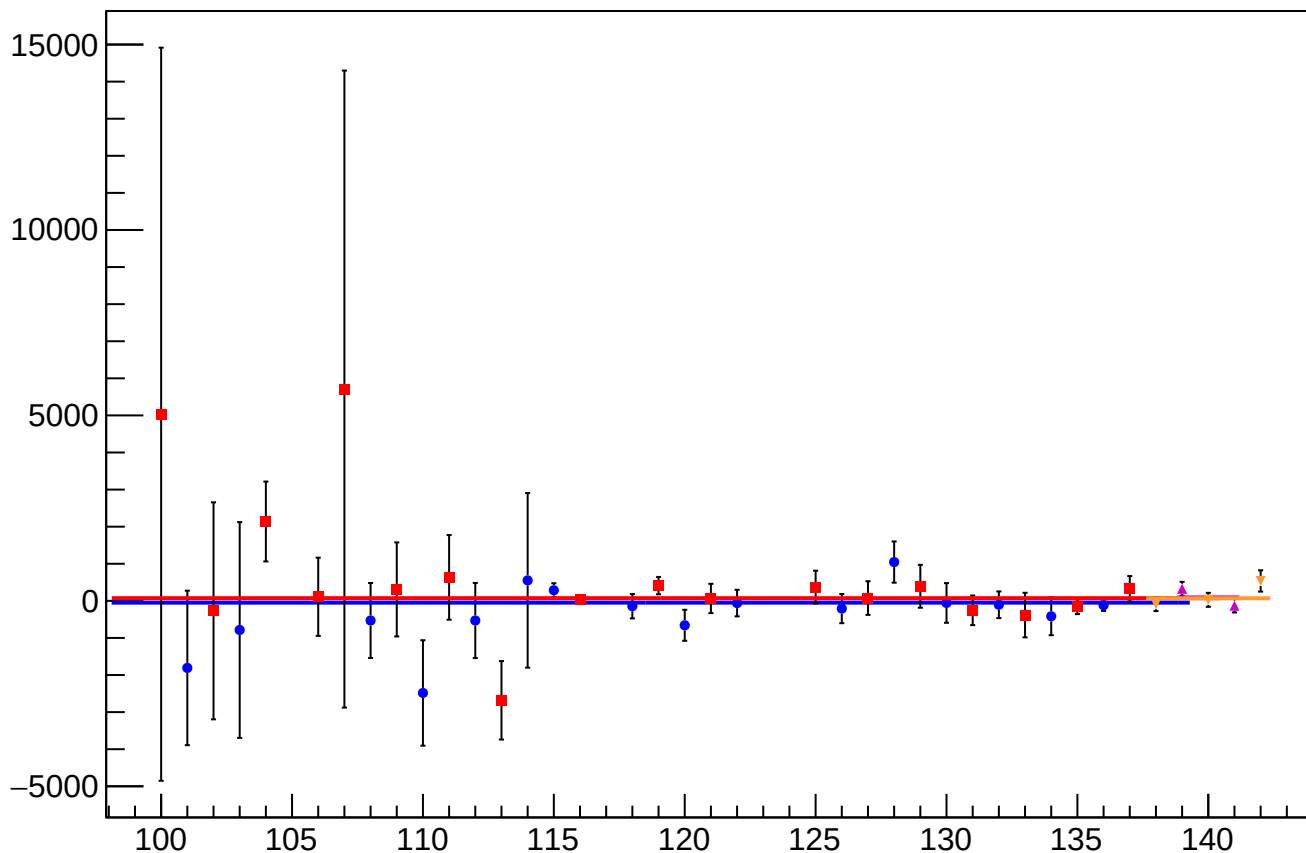
Right: 2315.698+/-0.436 χ^2/NDF : 668158.1/33

In: 2277.586+/-0.546 χ^2/NDF : 524315.7/17

Out: 2287.599+/-0.533 χ^2/NDF : 168272.8/20

All: 2282.709+/-0.381 χ^2/NDF : 692760.8/38

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -47.960+/-90.920 χ^2/NDF : 14.4/15

Left Out: 69.051+/-120.728 χ^2/NDF : 3.4/2

Right Out: 72.198+/-82.322 χ^2/NDF : 17.4/17

Left In: 92.876+/-130.642 χ^2/NDF : 3.0/1

Left: 80.025+/-88.665 χ^2/NDF : 6.5/4

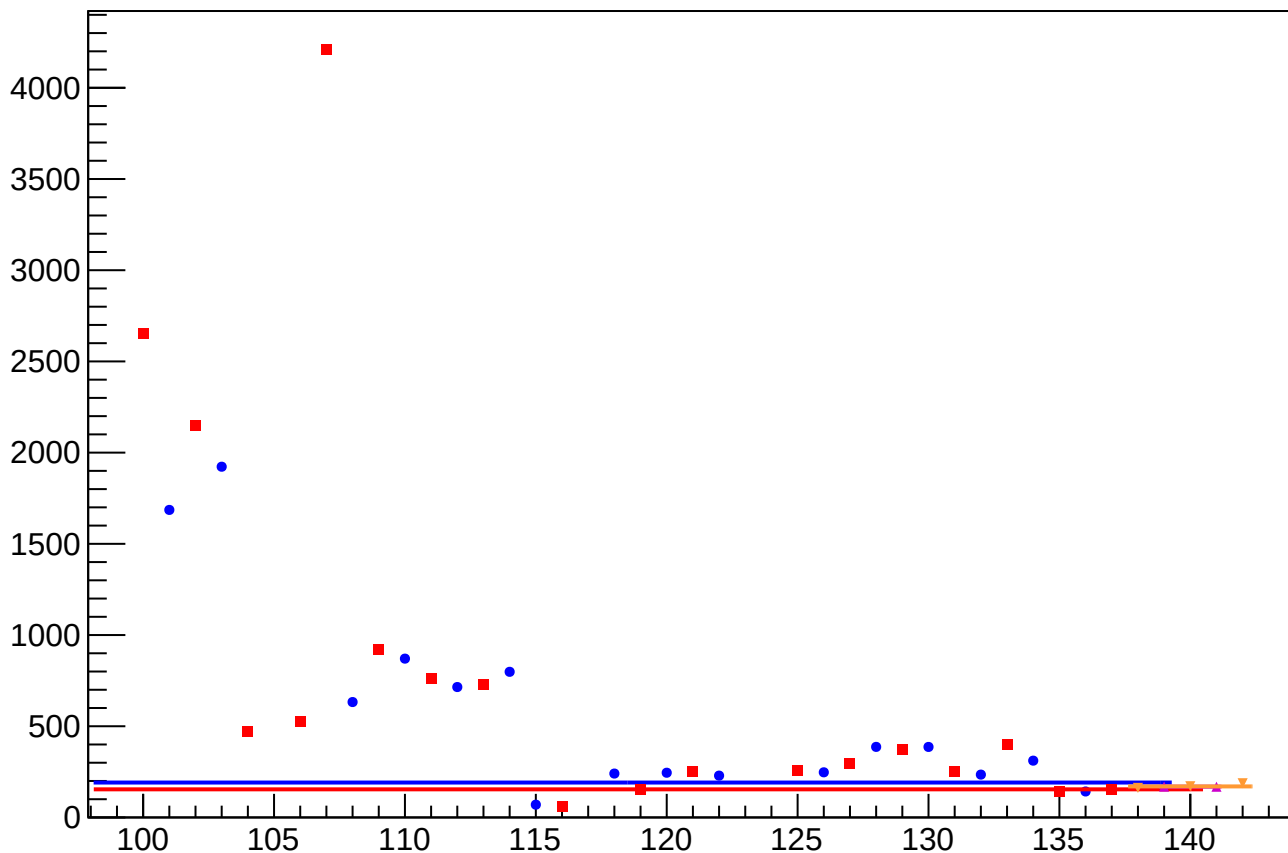
Right: 18.067+/-61.024 χ^2/NDF : 32.7/33

In: -2.005+/-74.626 χ^2/NDF : 18.2/17

Out: 71.199+/-68.015 χ^2/NDF : 20.8/20

All: 37.983+/-50.269 χ^2/NDF : 39.5/38

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 191.405+/-0.064 χ^2/NDF : 5063603.7/15

Left Out: 170.141+/-0.085 χ^2/NDF :11055.9/2

Right Out: 154.121+/-0.058 χ^2/NDF : 6108665.0/17

Left In: 168.698+/-0.092 χ^2/NDF :3.4/1

Left: 169.477+/-0.063 χ^2/NDF : 11190.8/4

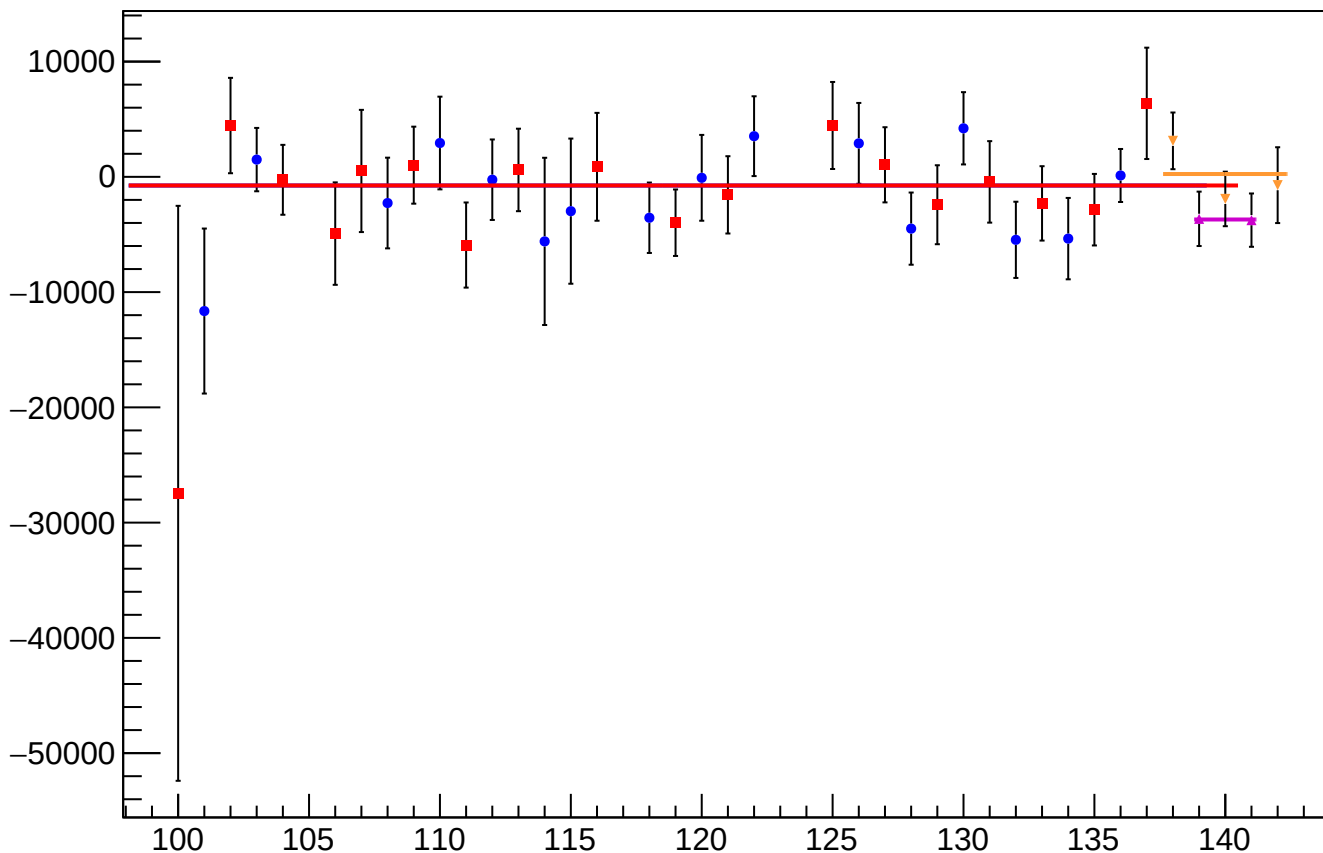
Right: 170.917+/-0.043 χ^2/NDF : 11357079.8/33

In: 183.996+/-0.053 χ^2/NDF :5104310.9/17

Out: 159.206+/-0.048 χ^2/NDF :6143759.5/20

All: 170.454+/-0.036 χ^2/NDF : 11368629.0/38

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -753.322+/-872.653 χ^2/NDF : 15.9/15

Left Out: 245.756+/-1513.687 χ^2/NDF : 2.3/2

Right Out: -749.316+/-869.366 χ^2/NDF : 12.8/17

Left In: -3700.313+/-1651.617 χ^2/NDF : 0.0/1

Left: -1555.651+/-1115.920 χ^2/NDF : 5.4/4

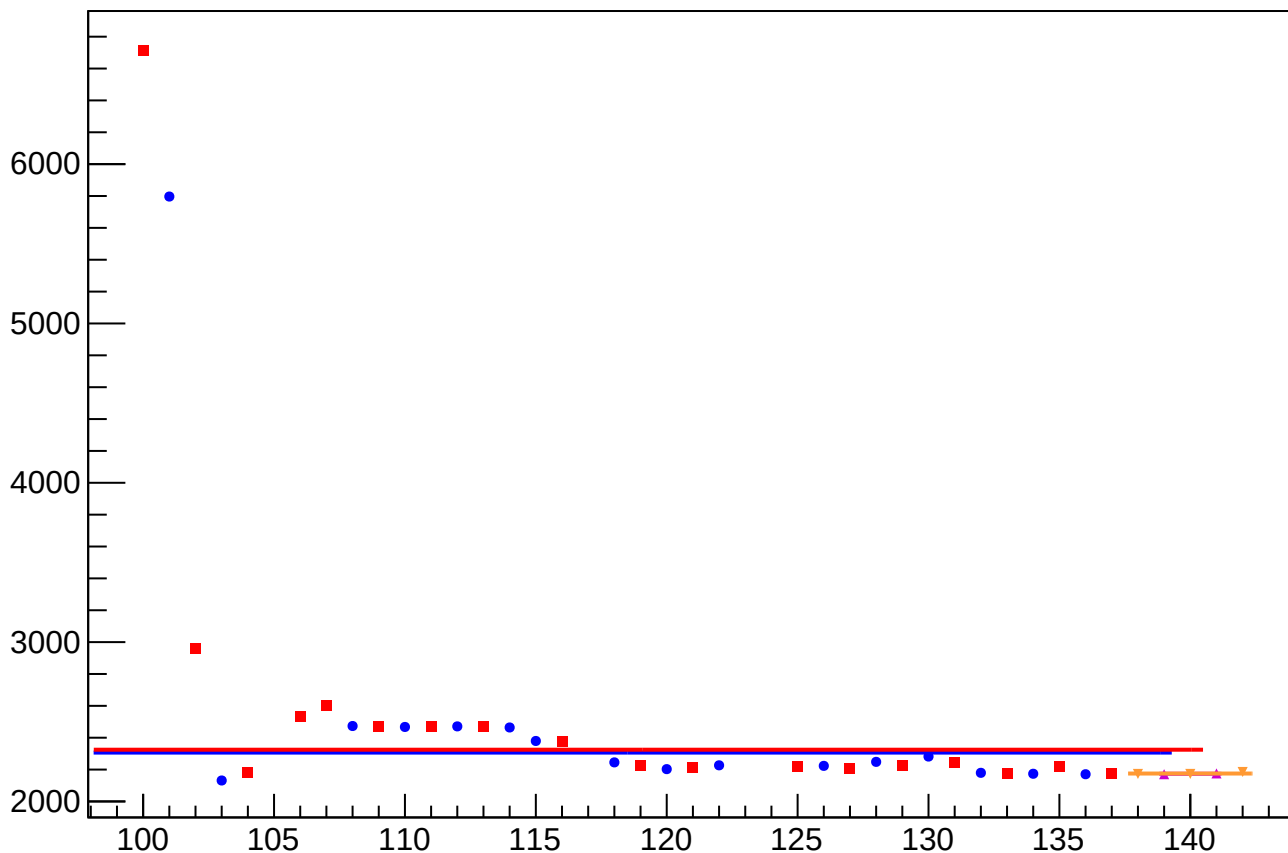
Right: -751.312+/-615.893 χ^2/NDF : 28.7/33

In: -1396.477+/-771.574 χ^2/NDF : 18.4/17

Out: -502.496+/-753.875 χ^2/NDF : 15.4/20

All: -939.115+/-539.219 χ^2/NDF : 34.5/38

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2306.643+/-0.617 χ^2/NDF : 514150.6/15

Left Out: 2175.172+/-1.070 χ^2/NDF : 21.7/2

Right Out: 2324.685+/-0.615 χ^2/NDF : 153578.5/17

Left In: 2173.501+/-1.168 χ^2/NDF : 4.5/1

Left: 2174.409+/-0.789 χ^2/NDF : 27.4/4

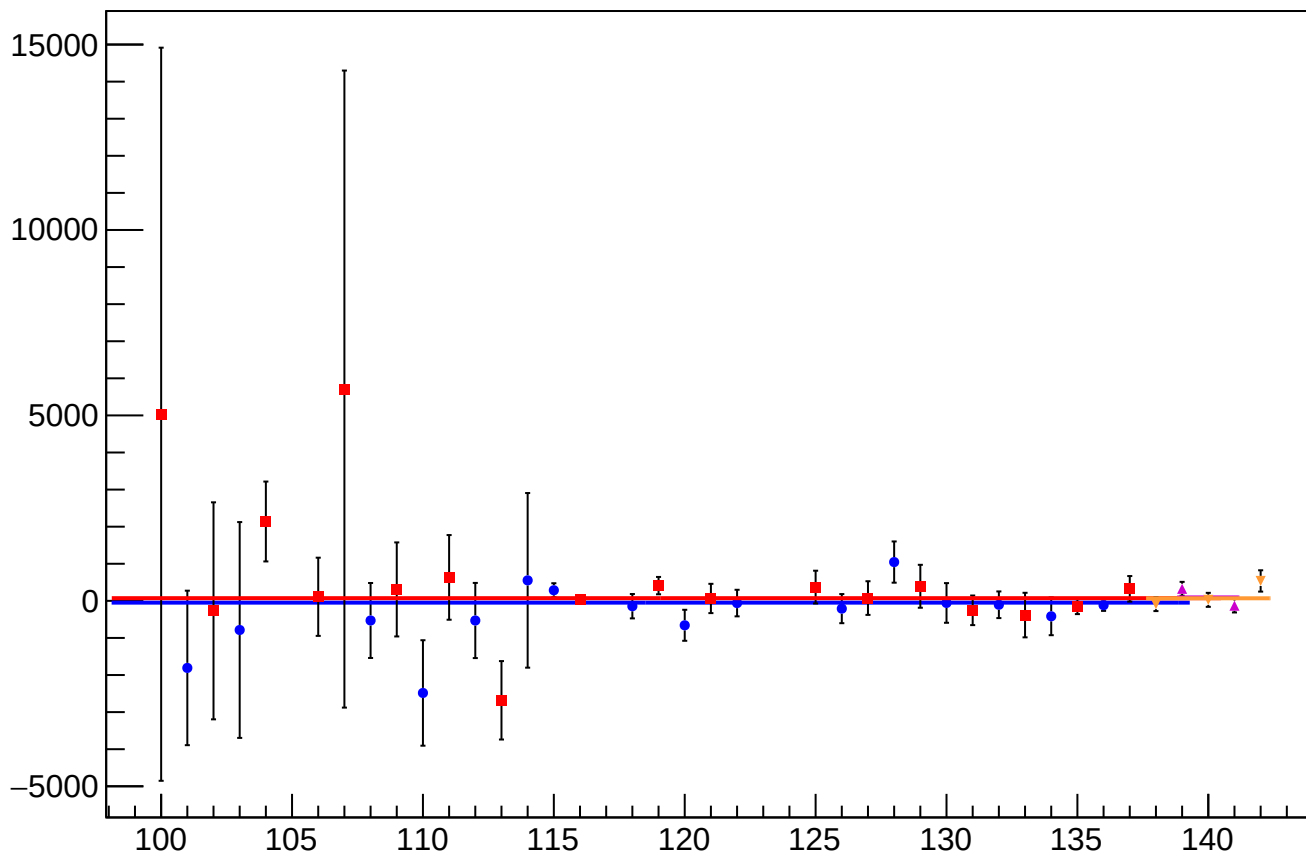
Right: 2315.698+/-0.436 χ^2/NDF : 668158.1/33

In: 2277.586+/-0.546 χ^2/NDF : 524315.7/17

Out: 2287.599+/-0.533 χ^2/NDF : 168272.8/20

All: 2282.709+/-0.381 χ^2/NDF : 692760.8/38

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -47.960 ± 90.920 χ^2/NDF : 14.4/15

Left Out: 69.051 ± 120.728 χ^2/NDF : 3.4/2

Right Out: 72.198 ± 82.322 χ^2/NDF : 17.4/17

Left In: 92.876 ± 130.642 χ^2/NDF : 3.0/1

Left: 80.025 ± 88.665 χ^2/NDF : 6.5/4

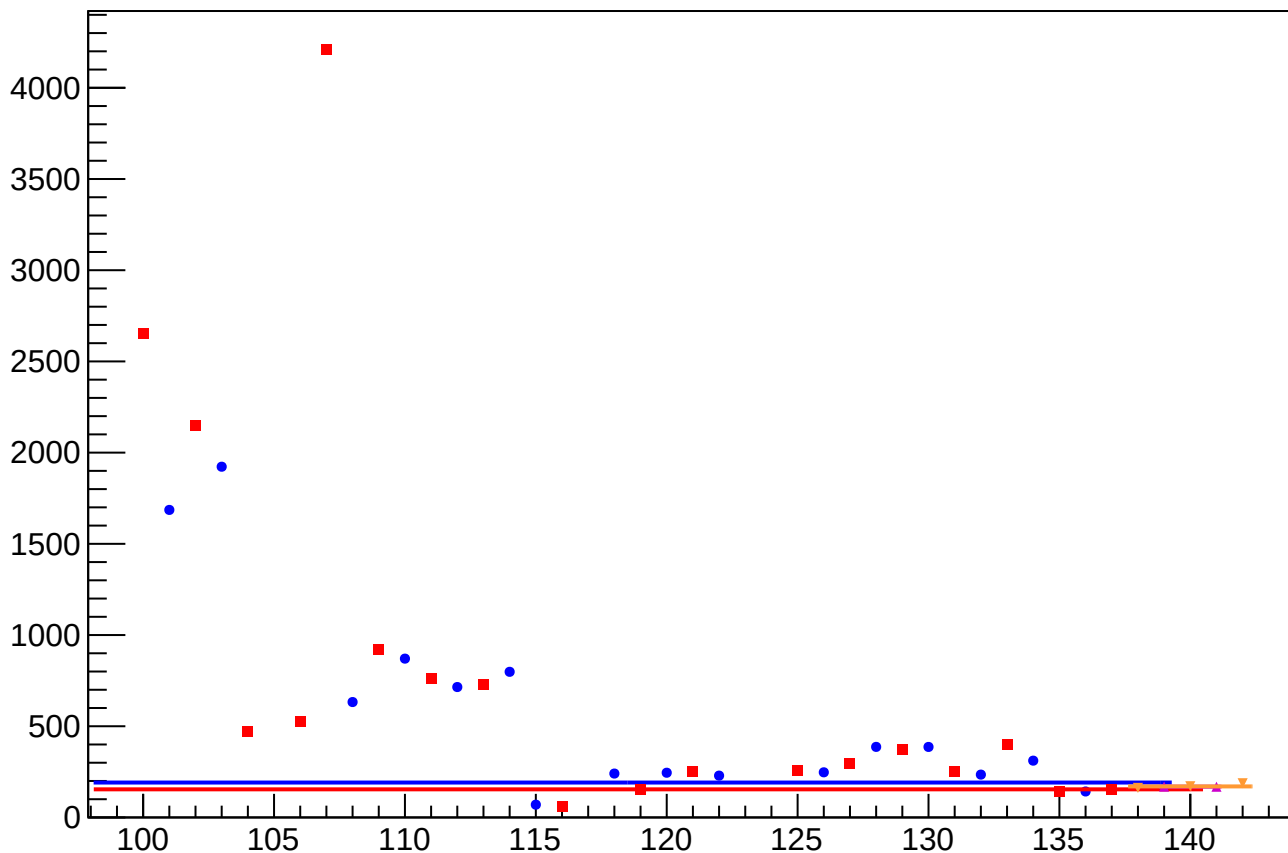
Right: 18.067 ± 61.024 χ^2/NDF : 32.7/33

In: -2.005 ± 74.626 χ^2/NDF : 18.2/17

Out: 71.199 ± 68.015 χ^2/NDF : 20.8/20

All: 37.983 ± 50.269 χ^2/NDF : 39.5/38

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 191.405 +/- 0.064 χ^2/NDF : 5063603.7/15

Left Out: 170.141 +/- 0.085 χ^2/NDF : 11055.9/2

Right Out: 154.121 +/- 0.058 χ^2/NDF : 6108665.0/17

Left In: 168.698 +/- 0.092 χ^2/NDF : 3.4/1

Left: 169.477 +/- 0.063 χ^2/NDF : 11190.8/4

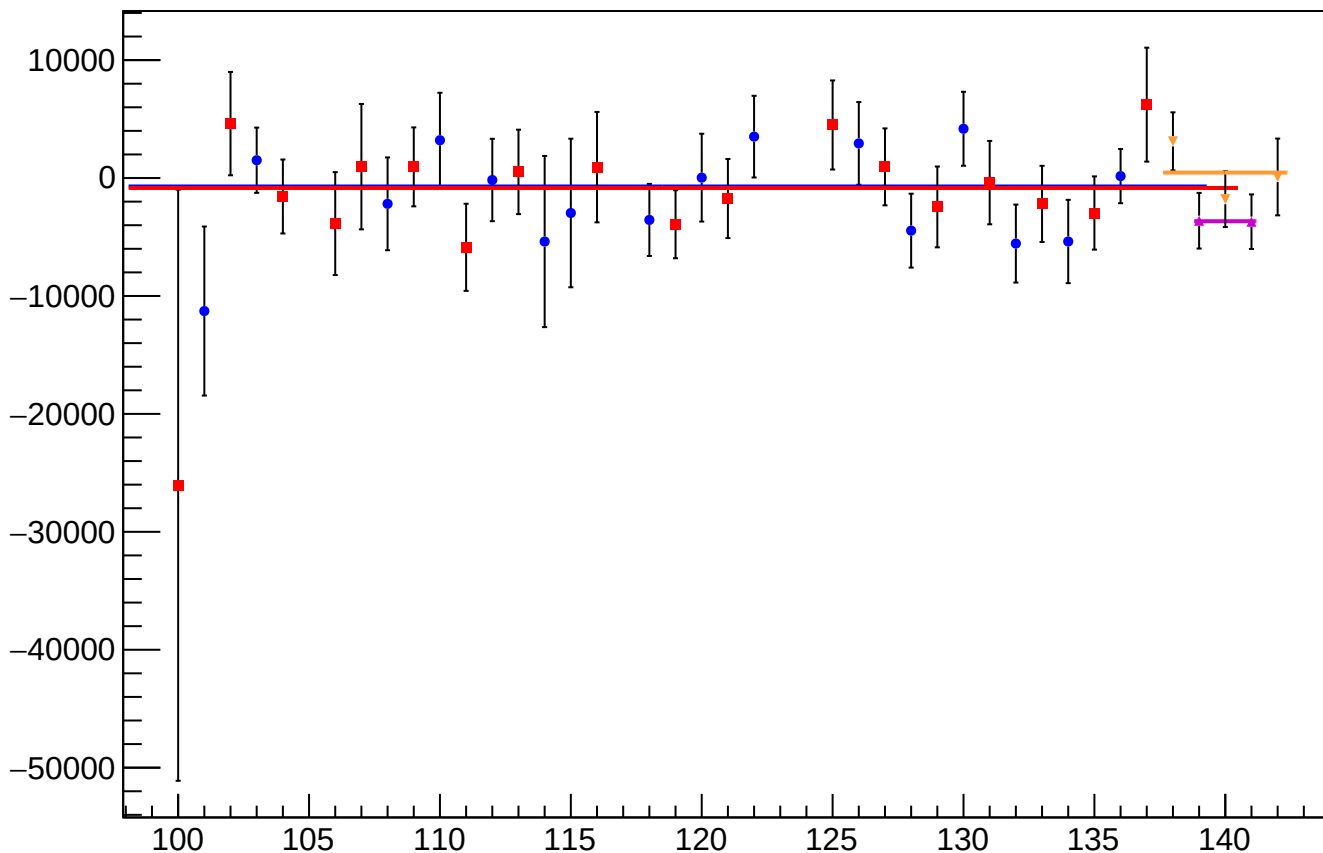
Right: 170.917 +/- 0.043 χ^2/NDF : 11357079.8/33

In: 183.996 +/- 0.053 χ^2/NDF : 5104310.9/17

Out: 159.206 +/- 0.048 χ^2/NDF : 6143759.5/20

All: 170.454 +/- 0.036 χ^2/NDF : 11368629.0/38

dit_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -717.136+/-873.539 χ^2/NDF : 15.8/15

Left Out: 463.540+/-1510.771 χ^2/NDF : 2.1/2

Right Out: -842.157+/-873.586 χ^2/NDF : 12.2/17

Left In: -3661.141+/-1652.219 χ^2/NDF : 0.0/1

Left: -1414.714+/-1114.935 χ^2/NDF : 5.5/4

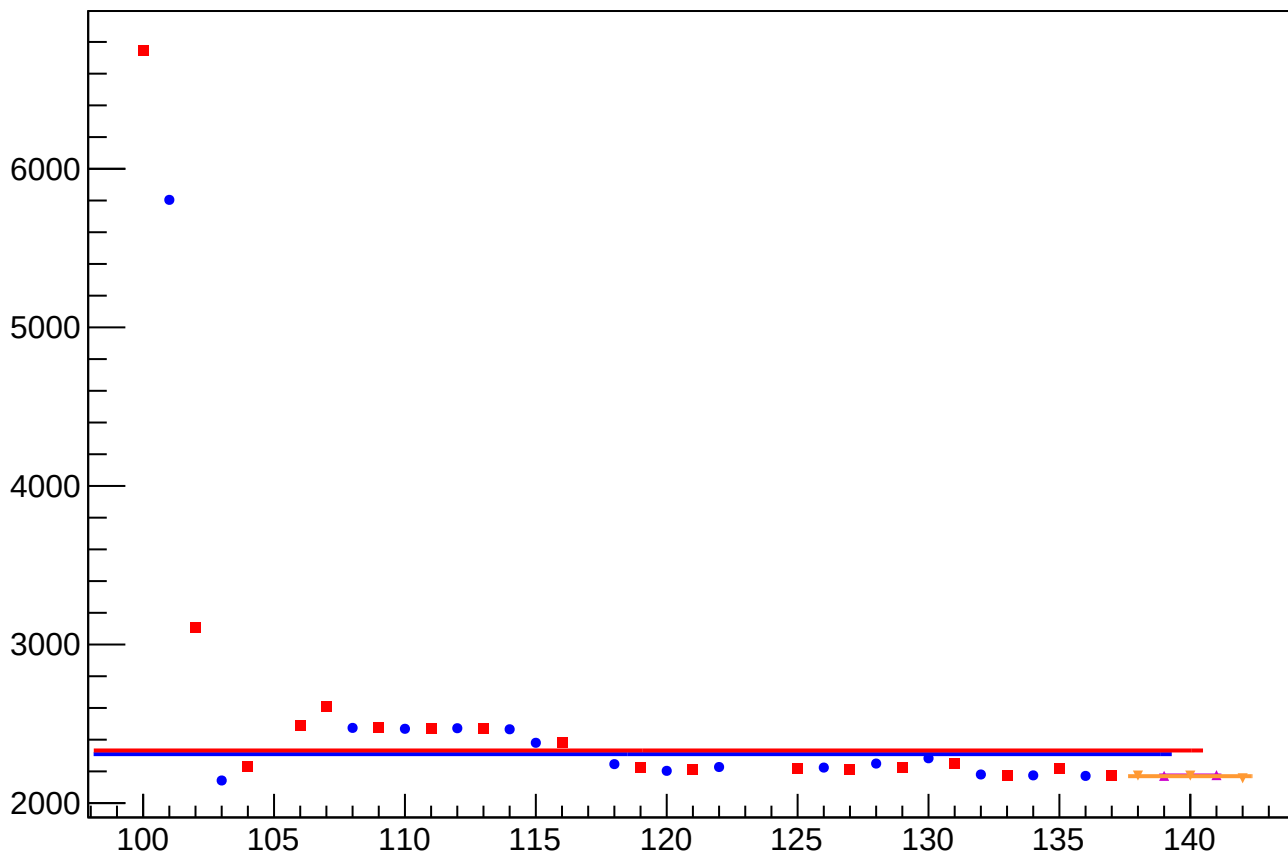
Right: -779.643+/-617.702 χ^2/NDF : 28.0/33

In: -1360.294+/-772.248 χ^2/NDF : 18.3/17

Out: -514.979+/-756.257 χ^2/NDF : 14.8/20

All: -928.794+/-540.319 χ^2/NDF : 33.7/38

dit_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2308.739+/-0.618 χ^2/NDF : 513742.2/15

Left Out: 2169.756+/-1.068 χ^2/NDF :43.5/2

Right Out: 2331.849+/-0.618 χ^2/NDF : 167321.7/17

Left In: 2174.293+/-1.168 χ^2/NDF :3.9/1

Left: 2171.822+/-0.788 χ^2/NDF : 55.7/4

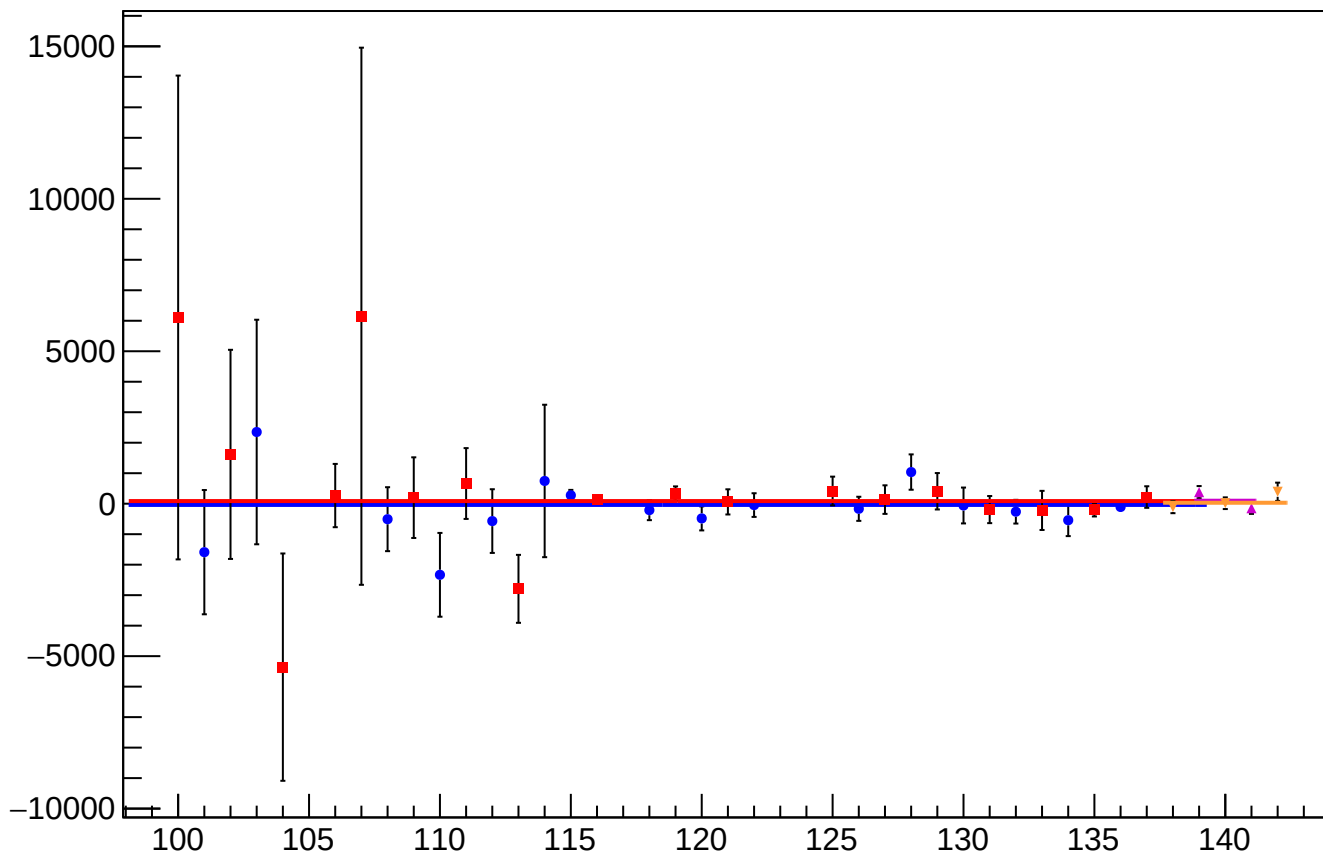
Right: 2320.294+/-0.437 χ^2/NDF : 681763.7/33

In: 2279.368+/-0.546 χ^2/NDF :524096.1/17

Out: 2291.233+/-0.535 χ^2/NDF :184619.2/20

All: 2285.424+/-0.382 χ^2/NDF : 708956.3/38

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -40.119 ± 92.409 χ^2/NDF : 14.1/15

Left Out: 30.960 ± 125.347 χ^2/NDF : 2.0/2

Right Out: 86.379 ± 86.088 χ^2/NDF : 15.0/17

Left In: 97.450 ± 135.776 χ^2/NDF : 3.8/1

Left: 61.554 ± 92.100 χ^2/NDF : 5.9/4

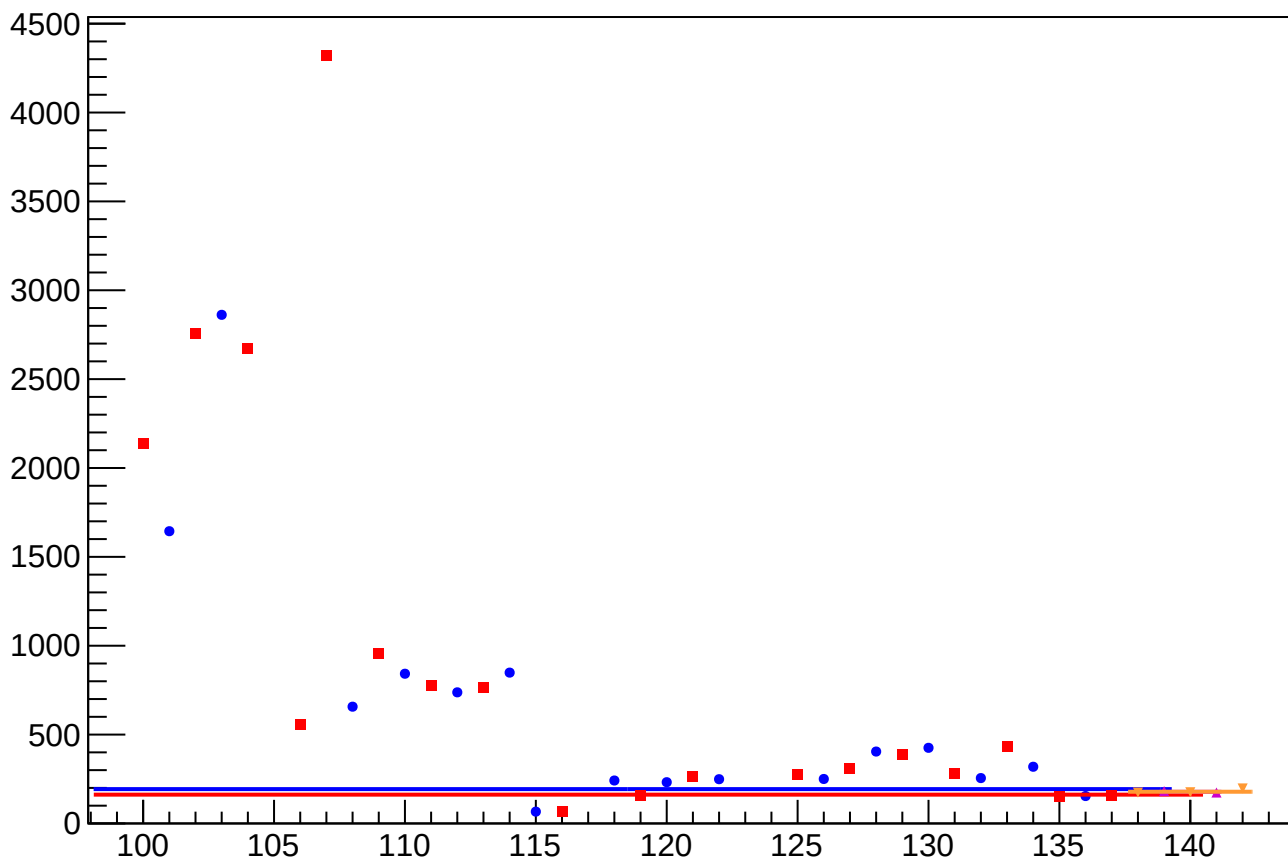
Right: 27.604 ± 62.990 χ^2/NDF : 30.0/33

In: 3.432 ± 76.394 χ^2/NDF : 18.5/17

Out: 68.616 ± 70.963 χ^2/NDF : 17.1/20

All: 38.423 ± 51.993 χ^2/NDF : 36.0/38

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 193.255+/-0.065 χ^2/NDF : 5617847.0/15

Left Out: 178.449+/-0.089 χ^2/NDF : 9275.6/2

Right Out: 162.114+/-0.061 χ^2/NDF : 7070489.1/17

Left In: 177.899+/-0.096 χ^2/NDF : 1779.4/1

Left: 178.196+/-0.065 χ^2/NDF : 11072.8/4

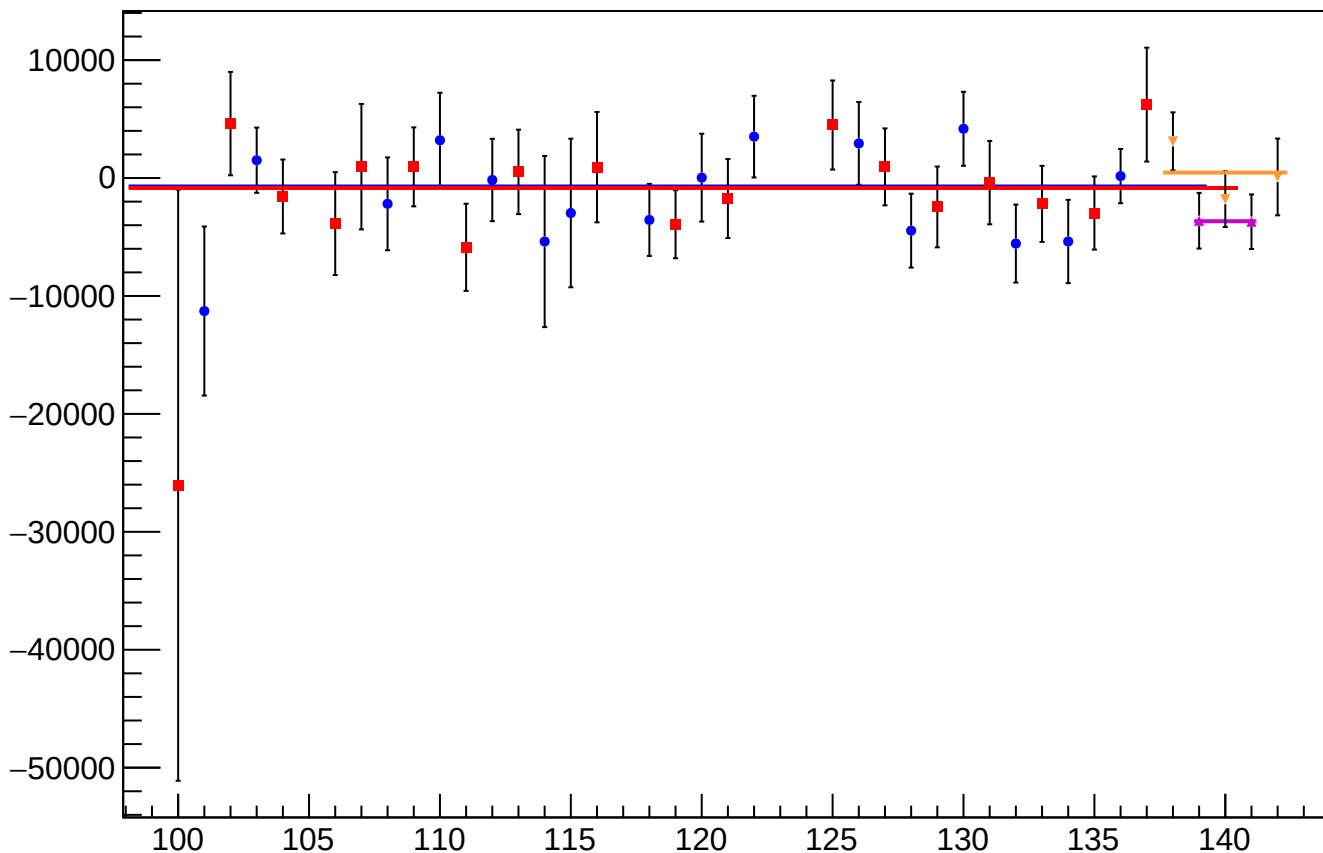
Right: 176.583+/-0.045 χ^2/NDF : 12809933.8/33

In: 188.394+/-0.054 χ^2/NDF : 5637111.5/17

Out: 167.349+/-0.050 χ^2/NDF : 7102843.2/20

All: 177.097+/-0.037 χ^2/NDF : 12821424.2/38

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -717.137+/-873.539 χ^2/NDF : 15.8/15

Left Out: 463.540+/-1510.771 χ^2/NDF : 2.1/2

Right Out: -842.159+/-873.586 χ^2/NDF : 12.2/17

Left In: -3661.136+/-1652.219 χ^2/NDF : 0.0/1

Left: -1414.712+/-1114.935 χ^2/NDF : 5.5/4

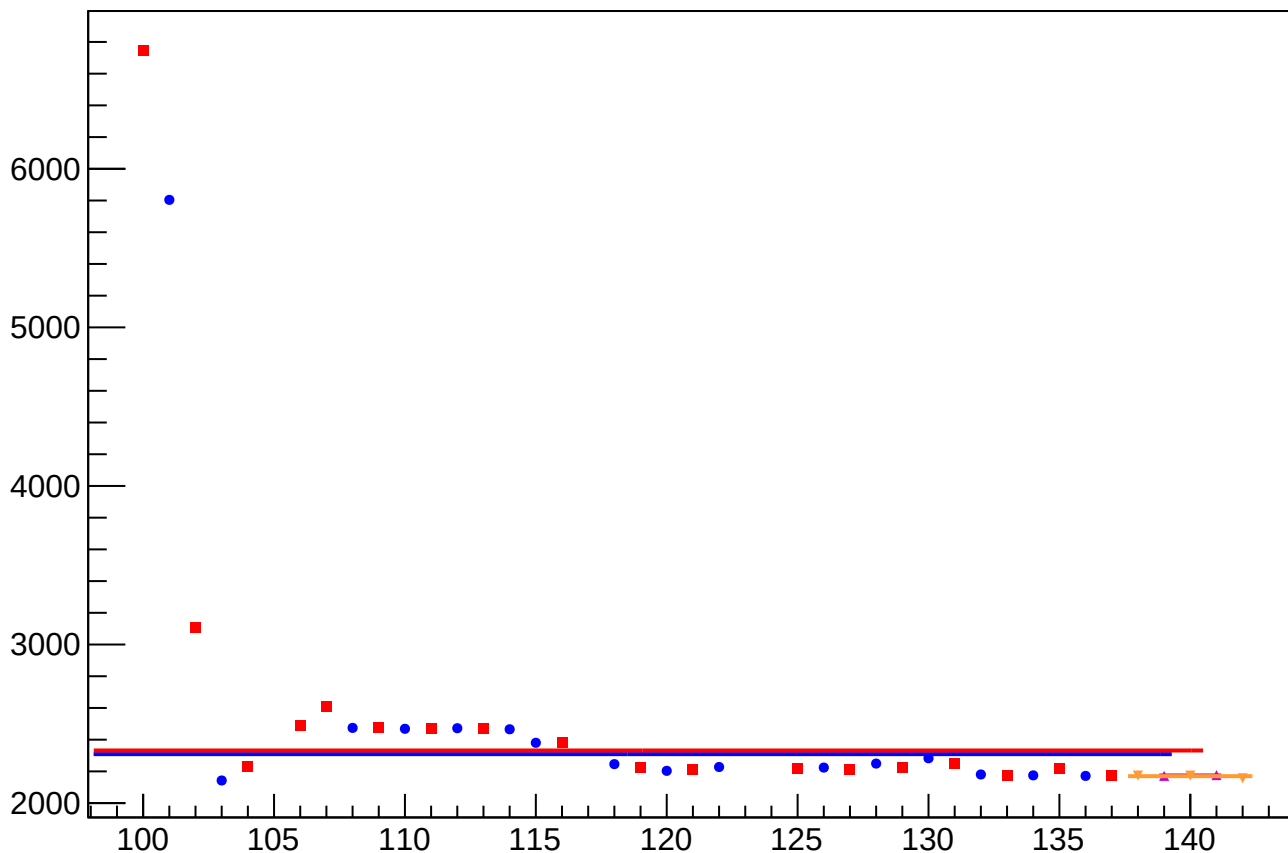
Right: -779.645+/-617.702 χ^2/NDF : 28.0/33

In: -1360.293+/-772.248 χ^2/NDF : 18.3/17

Out: -514.981+/-756.257 χ^2/NDF : 14.8/20

All: -928.794+/-540.319 χ^2/NDF : 33.7/38

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2308.739+/-0.618 χ^2/NDF : 513742.2/15

Left Out: 2169.756+/-1.068 χ^2/NDF : 43.5/2

Right Out: 2331.849+/-0.618 χ^2/NDF : 167321.6/17

Left In: 2174.293+/-1.168 χ^2/NDF : 3.9/1

Left: 2171.822+/-0.788 χ^2/NDF : 55.7/4

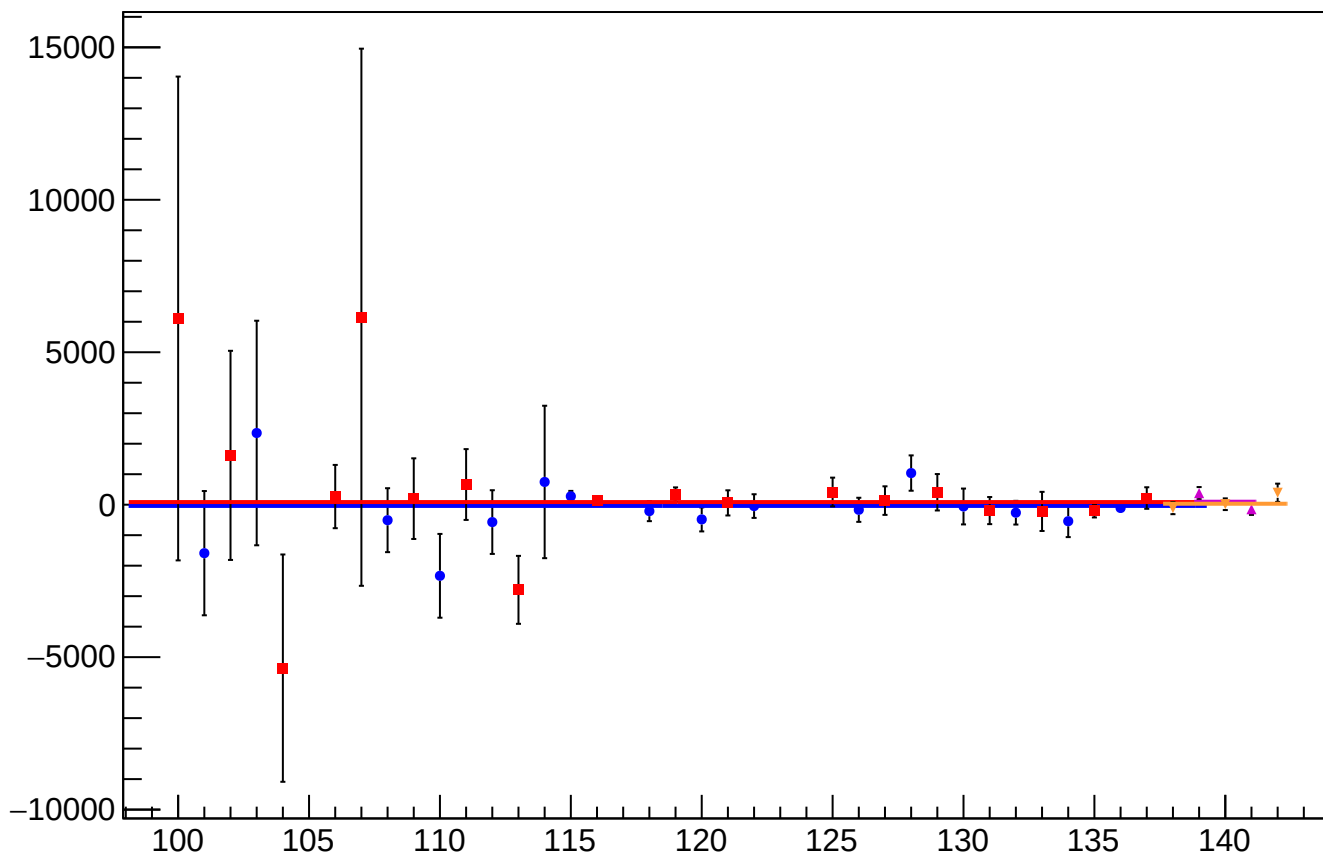
Right: 2320.294+/-0.437 χ^2/NDF : 681763.7/33

In: 2279.368+/-0.546 χ^2/NDF : 524096.2/17

Out: 2291.233+/-0.535 χ^2/NDF : 184619.0/20

All: 2285.424+/-0.382 χ^2/NDF : 708956.2/38

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -40.116 ± 92.408 $\chi^2/\text{NDF}: 14.1/15$

Left Out: 30.963 ± 125.348 $\chi^2/\text{NDF}: 2.0/2$

Right Out: 86.380 ± 86.087 $\chi^2/\text{NDF}: 15.0/17$

Left In: 97.446 ± 135.777 $\chi^2/\text{NDF}: 3.8/1$

Left: 61.554 ± 92.101 $\chi^2/\text{NDF}: 5.9/4$

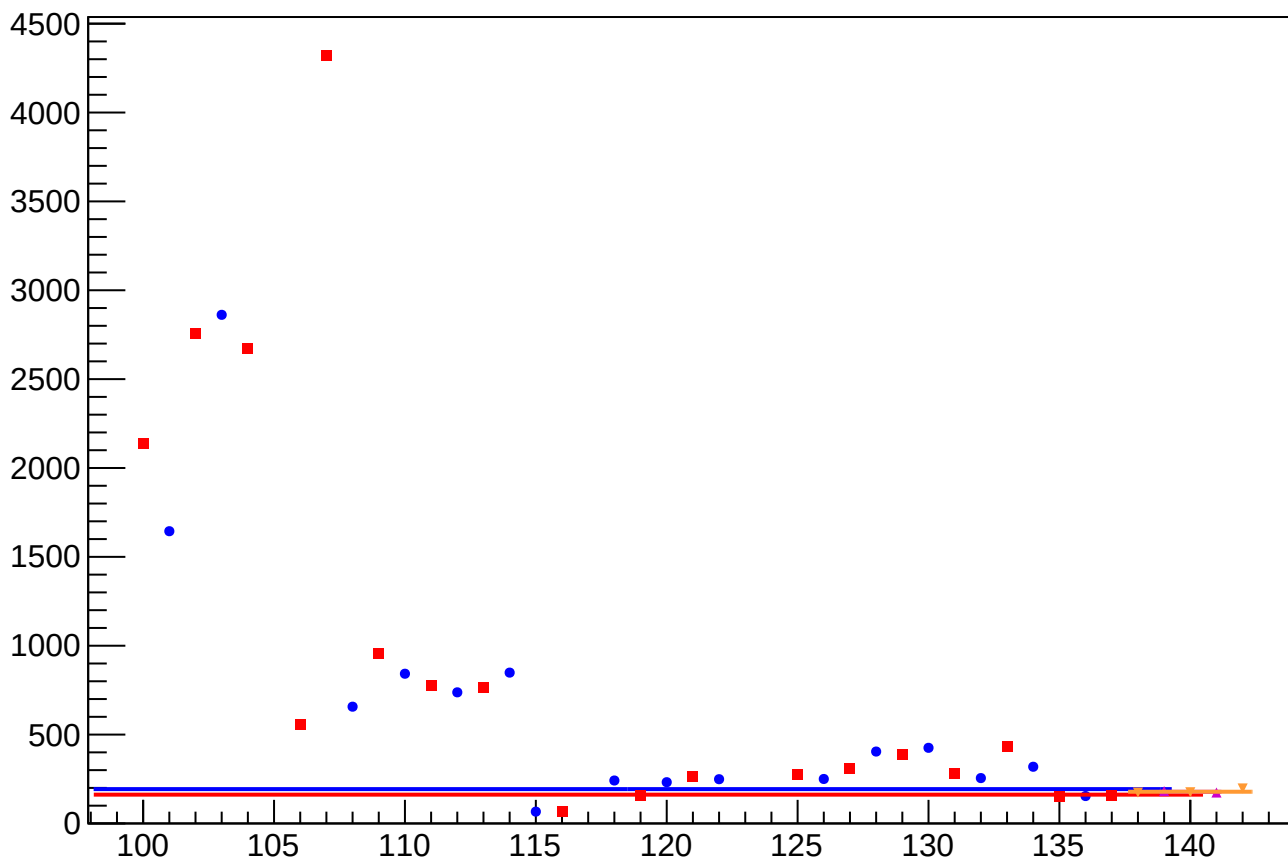
Right: 27.606 ± 62.989 $\chi^2/\text{NDF}: 30.0/33$

In: 3.432 ± 76.394 $\chi^2/\text{NDF}: 18.5/17$

Out: 68.619 ± 70.963 $\chi^2/\text{NDF}: 17.1/20$

All: 38.424 ± 51.992 $\chi^2/\text{NDF}: 36.0/38$

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 193.253+/-0.065 χ^2/NDF : 5617884.1/15

Left Out: 178.450+/-0.089 χ^2/NDF : 9272.8/2

Right Out: 162.112+/-0.061 χ^2/NDF : 7070547.9/17

Left In: 177.900+/-0.096 χ^2/NDF : 1781.2/1

Left: 178.197+/-0.065 χ^2/NDF : 11071.6/4

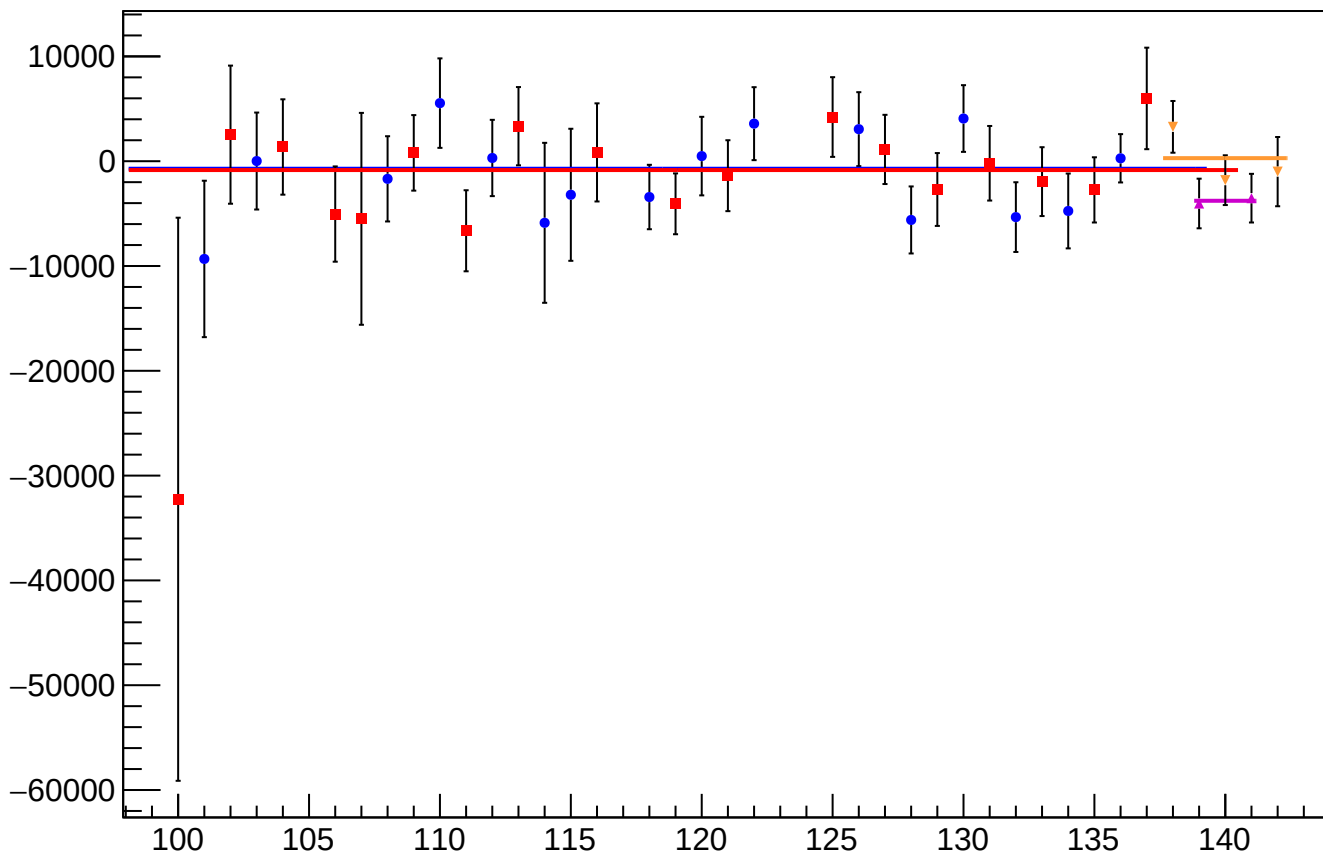
Right: 176.581+/-0.045 χ^2/NDF : 12810031.9/33

In: 188.393+/-0.054 χ^2/NDF : 5637142.3/17

Out: 167.348+/-0.050 χ^2/NDF : 7102909.2/20

All: 177.096+/-0.037 χ^2/NDF : 12821523.1/38

asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -719.565+/-916.228 χ^2/NDF : 15.8/15

Left Out: 291.362+/-1519.229 χ^2/NDF : 2.4/2

Right Out: -844.810+/-928.703 χ^2/NDF : 12.9/17

Left In: -3776.186+/-1657.478 χ^2/NDF : 0.0/1

Left: -1565.728+/-1119.948 χ^2/NDF : 5.7/4

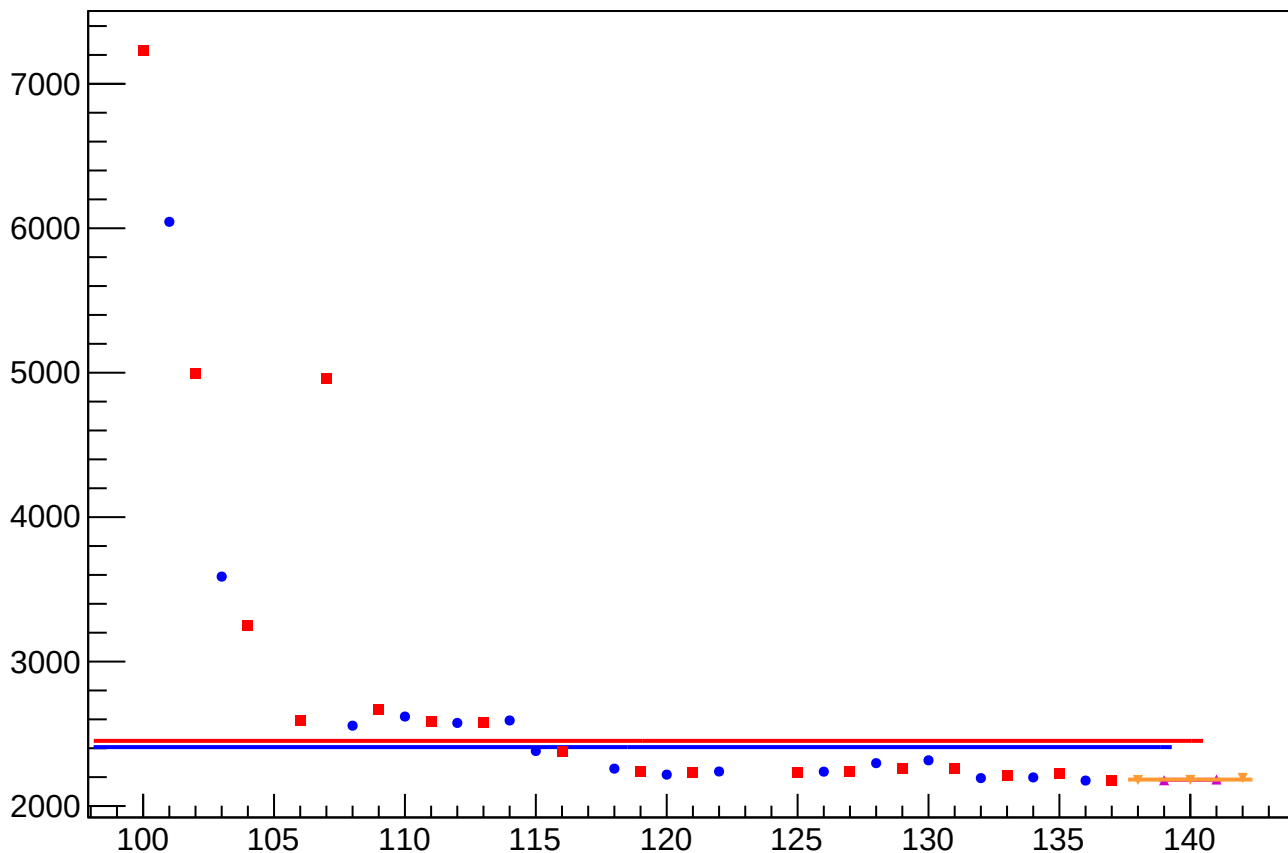
Right: -781.340+/-652.237 χ^2/NDF : 28.7/33

In: -1434.971+/-801.869 χ^2/NDF : 18.4/17

Out: -535.735+/-792.379 χ^2/NDF : 15.7/20

All: -980.000+/-563.622 χ^2/NDF : 34.8/38

asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2407.795+/-0.648 χ^2/NDF : 676891.3/15

Left Out: 2183.135+/-1.074 χ^2/NDF :29.2/2

Right Out: 2451.189+/-0.657 χ^2/NDF : 633600.1/17

Left In: 2181.211+/-1.172 χ^2/NDF :5.0/1

Left: 2182.256+/-0.792 χ^2/NDF : 35.6/4

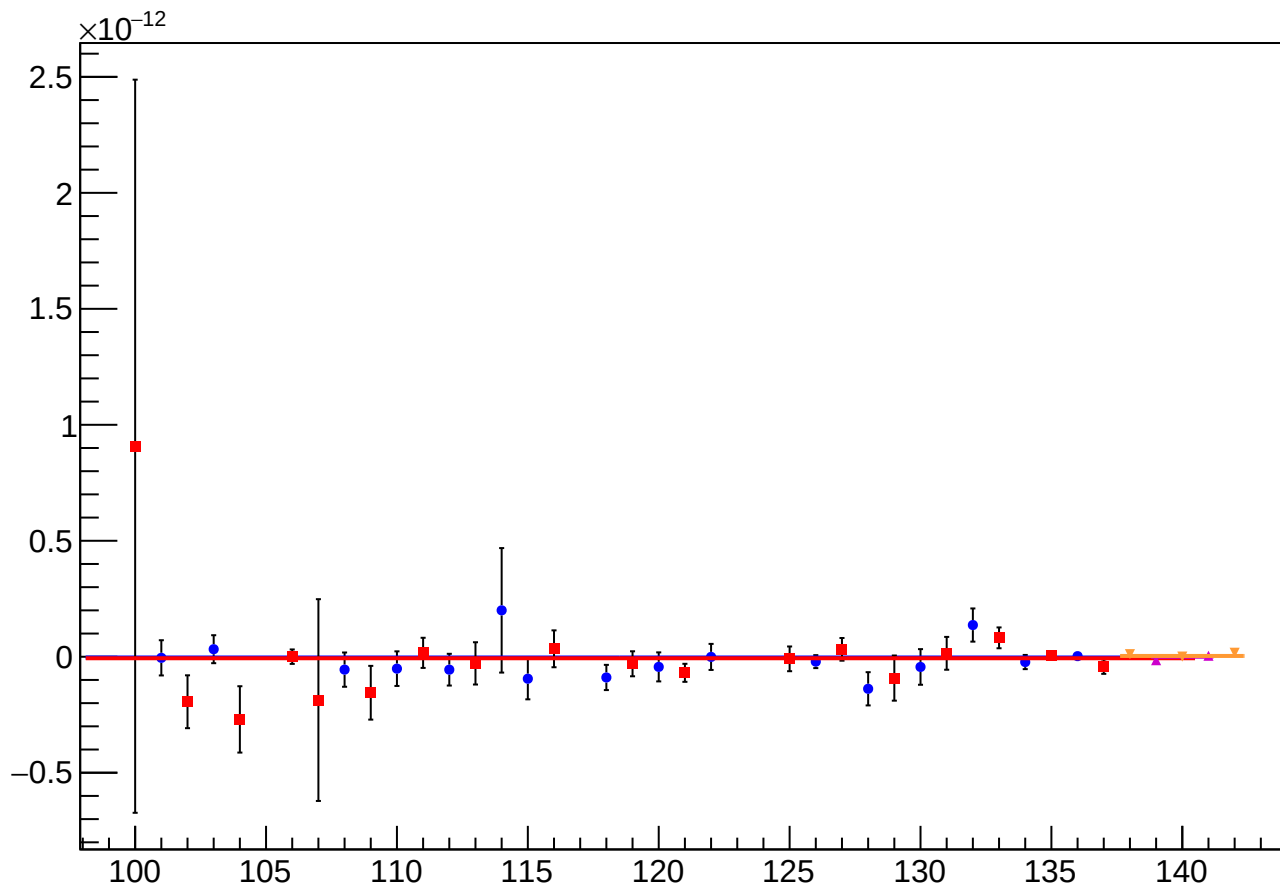
Right: 2429.198+/-0.461 χ^2/NDF : 1312704.2/33

In: 2354.763+/-0.567 χ^2/NDF :705524.2/17

Out: 2378.270+/-0.560 χ^2/NDF :678954.7/20

All: 2366.656+/-0.399 χ^2/NDF : 1385348.5/38

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 15.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.1/2

Right Out: -0.000+/-0.000 χ^2/NDF : 18.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 2.0/1

Left: 0.000+/-0.000 χ^2/NDF : 4.4/4

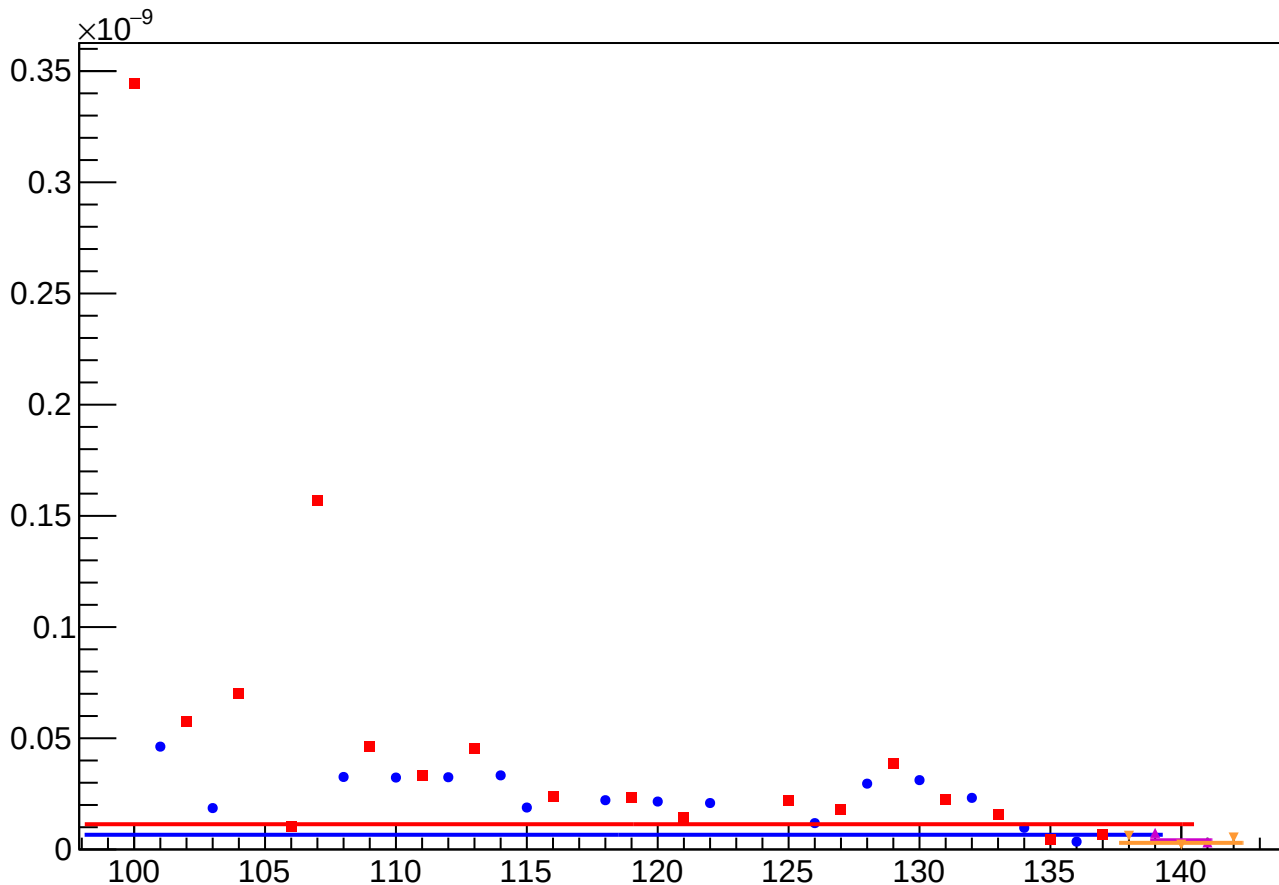
Right: -0.000+/-0.000 χ^2/NDF : 34.5/33

In: -0.000+/-0.000 χ^2/NDF : 17.7/17

Out: 0.000+/-0.000 χ^2/NDF : 21.9/20

All: 0.000+/-0.000 χ^2/NDF : 40.1/38

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2856979.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 350156.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2697712.1/17

Left In: 0.000+/-0.000 χ^2/NDF : 200514.5/1

Left: 0.000+/-0.000 χ^2/NDF : 609608.1/4

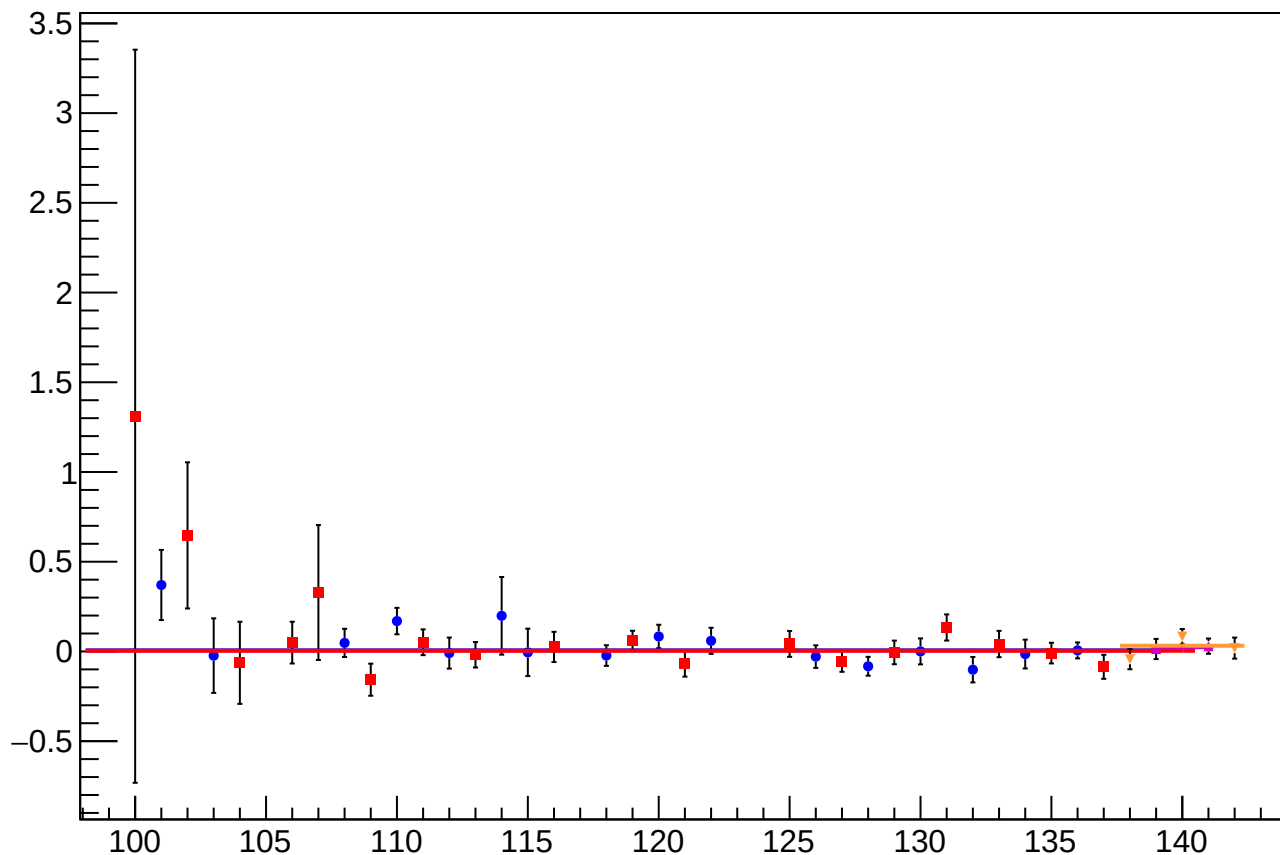
Right: 0.000+/-0.000 χ^2/NDF : 5888629.2/33

In: 0.000+/-0.000 χ^2/NDF : 3227474.6/17

Out: 0.000+/-0.000 χ^2/NDF : 4339241.0/20

All: 0.000+/-0.000 χ^2/NDF : 7669954.0/38

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.018 χ^2 /NDF: 17.2/15

Left Out: 0.032 $\pm$ 0.029 χ^2 /NDF:3.3/2

Right Out: 0.004 $\pm$ 0.019 χ^2 /NDF: 16.3/17

Left In: 0.024 $\pm$ 0.034 χ^2 /NDF:0.1/1

Left: 0.028 $\pm$ 0.022 χ^2 /NDF: 3.3/4

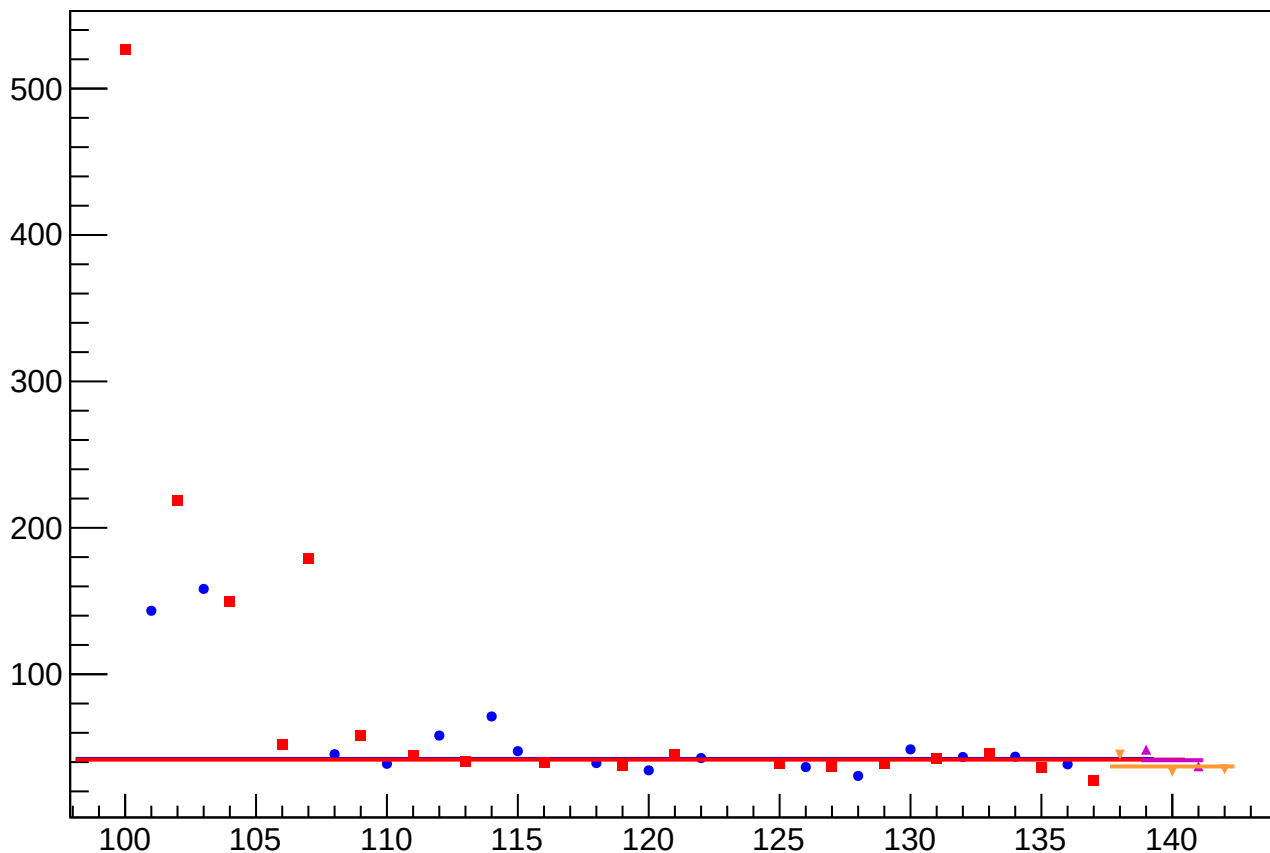
Right: 0.005 $\pm$ 0.013 χ^2 /NDF: 33.5/33

In: 0.010 $\pm$ 0.016 χ^2 /NDF:17.5/17

Out: 0.012 $\pm$ 0.016 χ^2 /NDF:20.2/20

All: 0.011 $\pm$ 0.011 χ^2 /NDF: 37.7/38

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 42.165+/-0.013 χ^2/NDF : 1454378.8/15

Left Out: 37.030+/-0.021 χ^2/NDF : 57241.4/2

Right Out: 41.692+/-0.013 χ^2/NDF : 1441204.7/17

Left In: 41.280+/-0.024 χ^2/NDF : 51877.6/1

Left: 38.848+/-0.016 χ^2/NDF : 127073.5/4

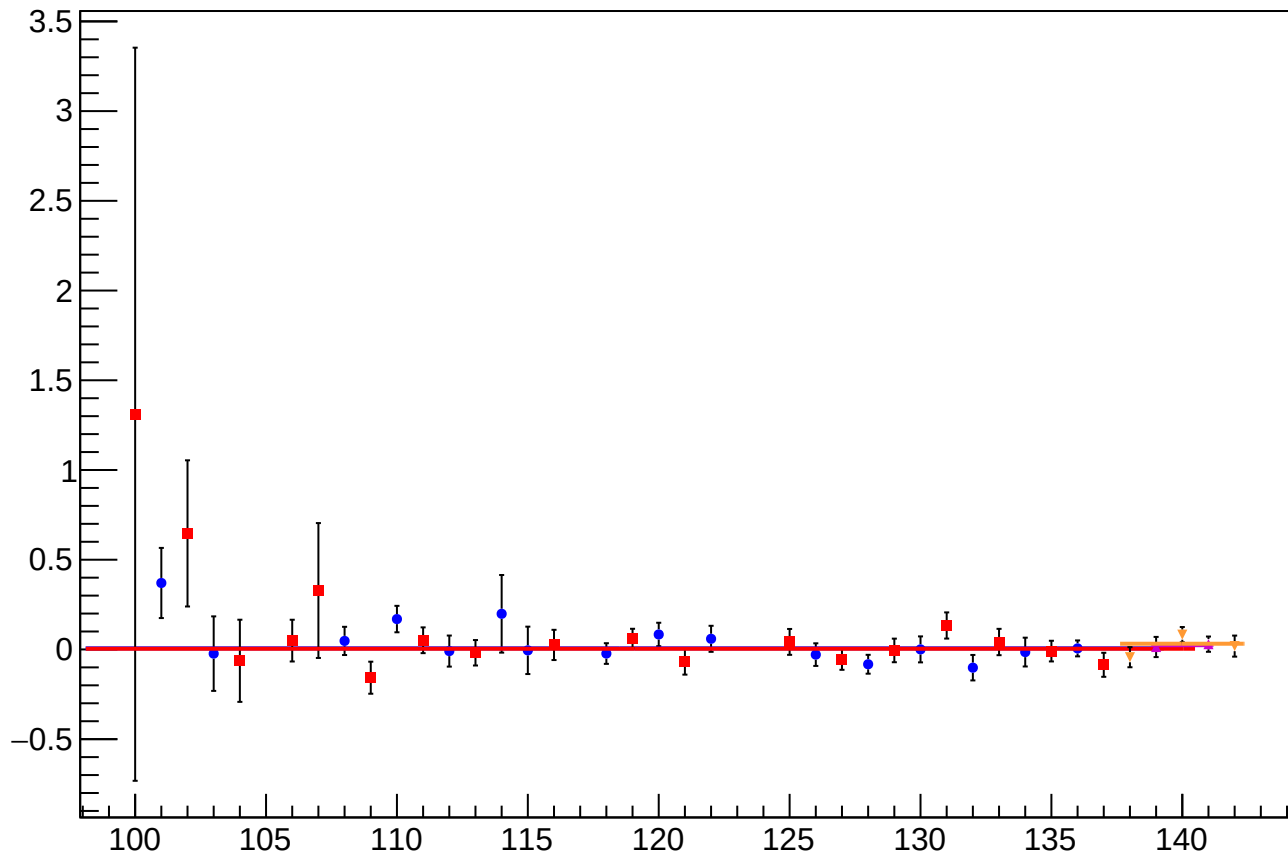
Right: 41.933+/-0.009 χ^2/NDF : 2896244.2/33

In: 41.967+/-0.011 χ^2/NDF : 1507312.9/17

Out: 40.356+/-0.011 χ^2/NDF : 1534483.4/20

All: 41.142+/-0.008 χ^2/NDF : 3052061.6/38

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.018 χ^2 /NDF: 17.2/15

Left Out: 0.032 $\pm$ 0.029 χ^2 /NDF:3.3/2

Right Out: 0.004 $\pm$ 0.019 χ^2 /NDF: 16.3/17

Left In: 0.024 $\pm$ 0.034 χ^2 /NDF:0.1/1

Left: 0.028 $\pm$ 0.022 χ^2 /NDF: 3.3/4

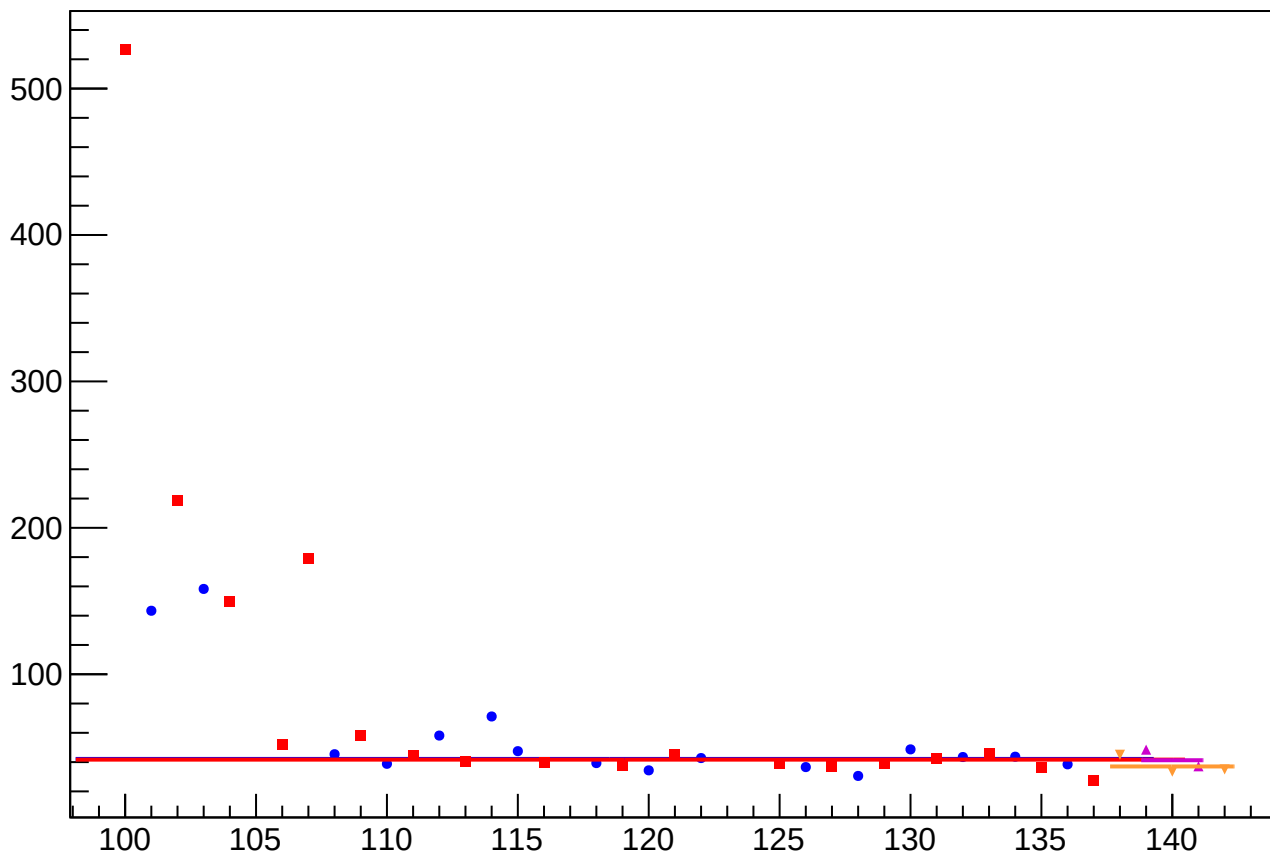
Right: 0.005 $\pm$ 0.013 χ^2 /NDF: 33.5/33

In: 0.010 $\pm$ 0.016 χ^2 /NDF:17.5/17

Out: 0.012 $\pm$ 0.016 χ^2 /NDF:20.2/20

All: 0.011 $\pm$ 0.011 χ^2 /NDF: 37.7/38

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 42.165+/-0.013 χ^2/NDF : 1454378.8/15

Left Out: 37.030+/-0.021 χ^2/NDF : 57241.4/2

Right Out: 41.692+/-0.013 χ^2/NDF : 1441204.7/17

Left In: 41.280+/-0.024 χ^2/NDF : 51877.6/1

Left: 38.848+/-0.016 χ^2/NDF : 127073.5/4

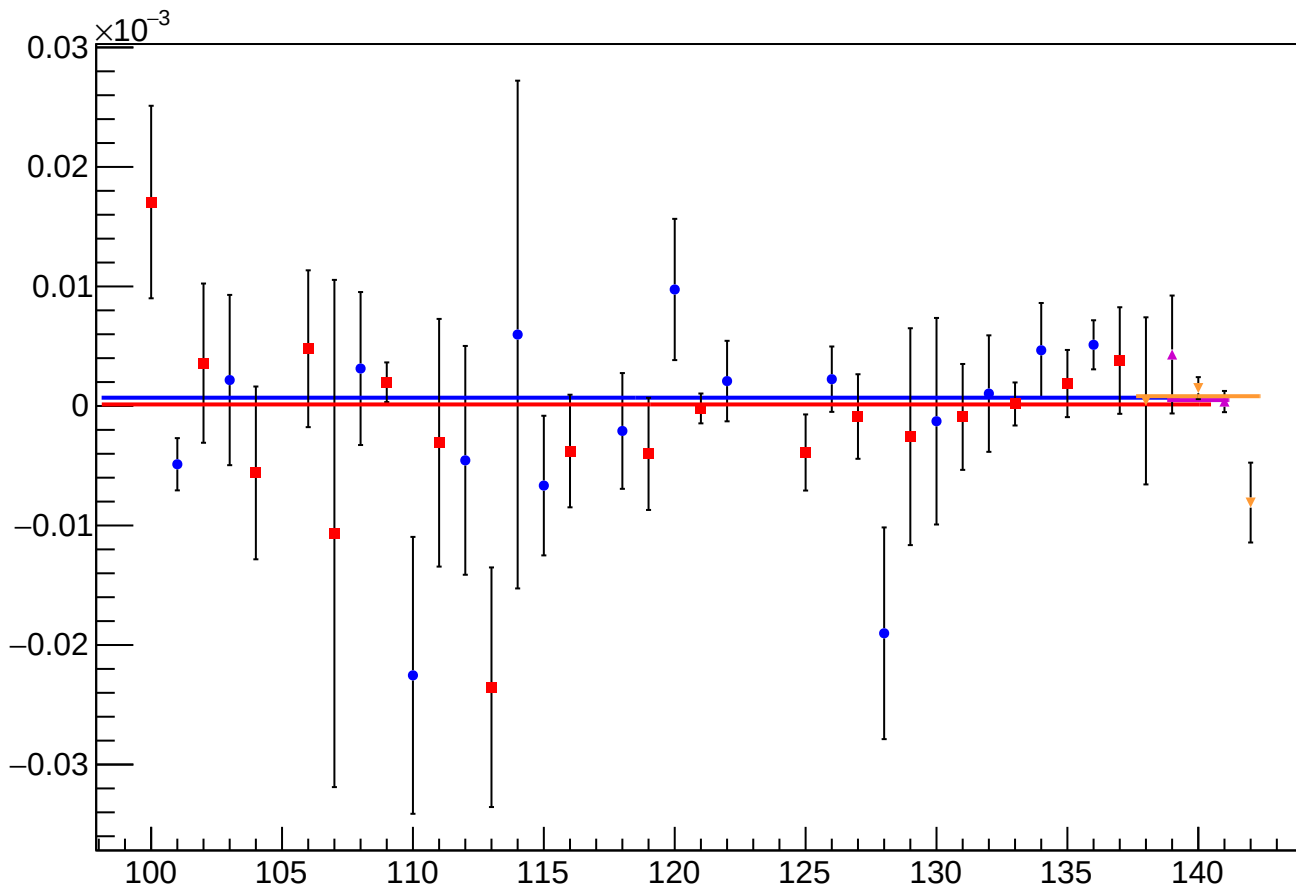
Right: 41.933+/-0.009 χ^2/NDF : 2896244.2/33

In: 41.967+/-0.011 χ^2/NDF : 1507312.9/17

Out: 40.356+/-0.011 χ^2/NDF : 1534483.4/20

All: 41.142+/-0.008 χ^2/NDF : 3052061.6/38

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 26.5/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:7.6/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 17.4/17

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.6/1

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 8.3/4

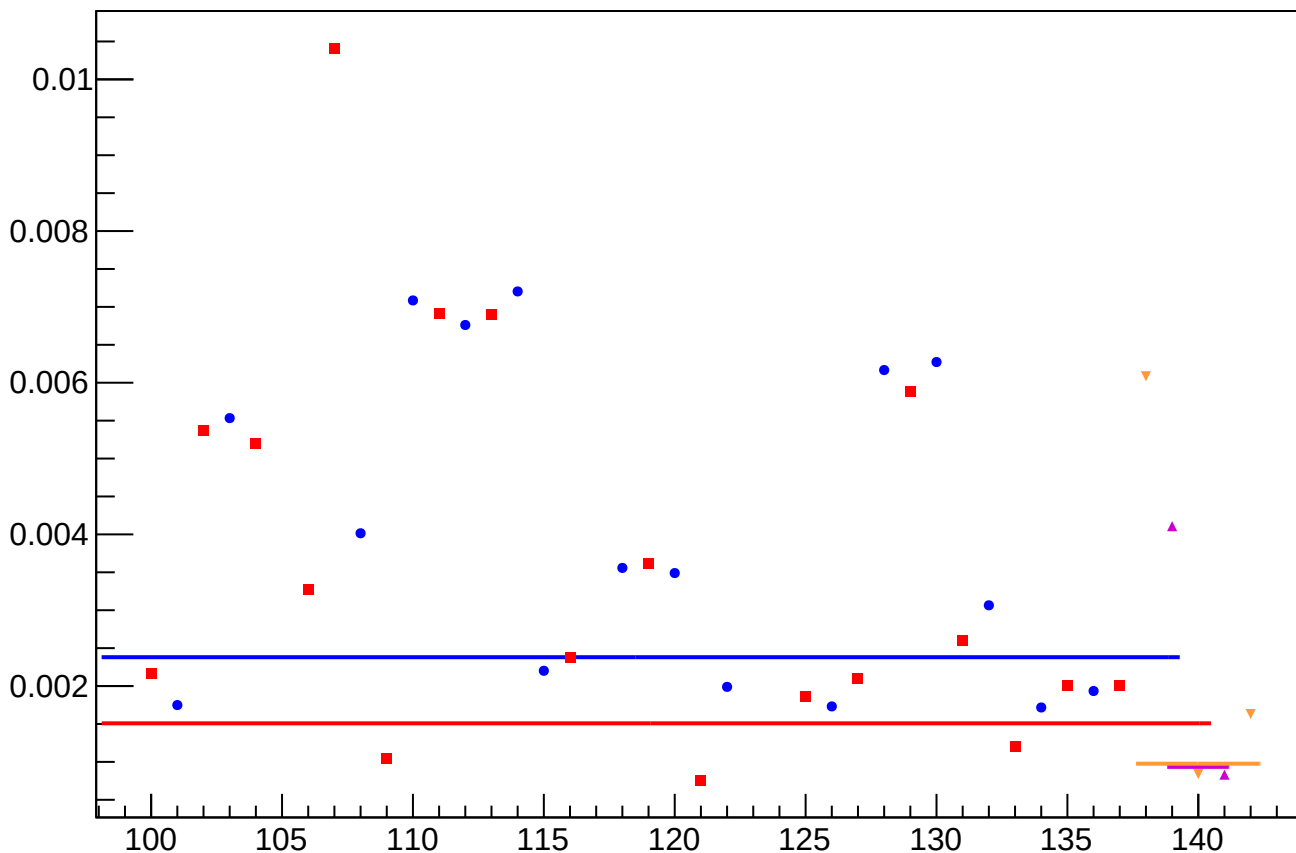
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 44.1/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF:27.1/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:25.4/20

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 52.6/38

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2832488.0/15

Left Out: 0.001+/-0.000 χ^2/NDF :1189765.3/2

Right Out: 0.002+/-0.000 χ^2/NDF : 5001667.0/17

Left In: 0.001+/-0.000 χ^2/NDF :854659.9/1

Left: 0.001+/-0.000 χ^2/NDF : 2046696.4/4

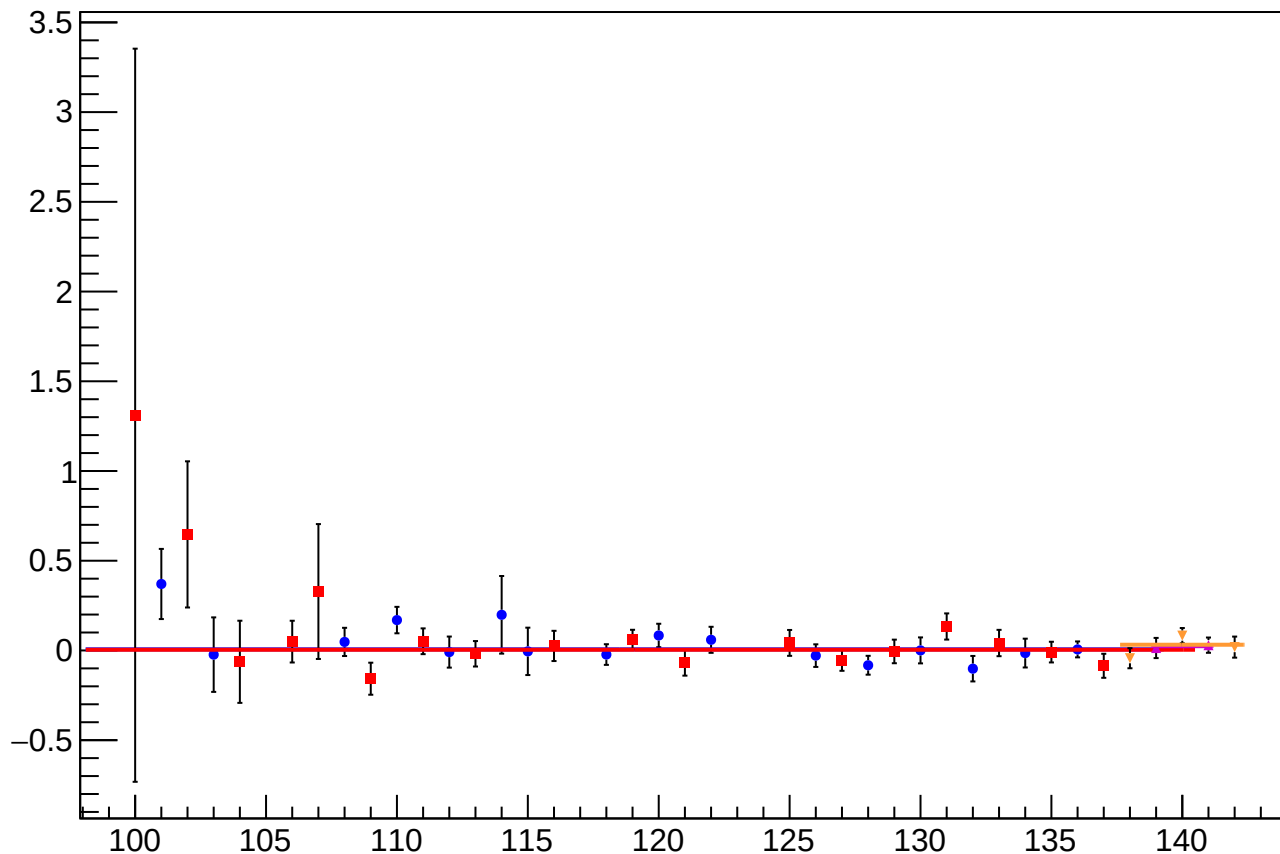
Right: 0.002+/-0.000 χ^2/NDF : 8812145.3/33

In: 0.002+/-0.000 χ^2/NDF :6013221.0/17

Out: 0.001+/-0.000 χ^2/NDF :6631076.7/20

All: 0.001+/-0.000 χ^2/NDF : 12816363.9/38

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_slug, Sign Corrected



Right In: 0.006 $\pm$ 0.018 χ^2 /NDF: 17.2/15

Left Out: 0.032 $\pm$ 0.029 χ^2 /NDF:3.3/2

Right Out: 0.004 $\pm$ 0.019 χ^2 /NDF: 16.3/17

Left In: 0.024 $\pm$ 0.034 χ^2 /NDF:0.1/1

Left: 0.028 $\pm$ 0.022 χ^2 /NDF: 3.3/4

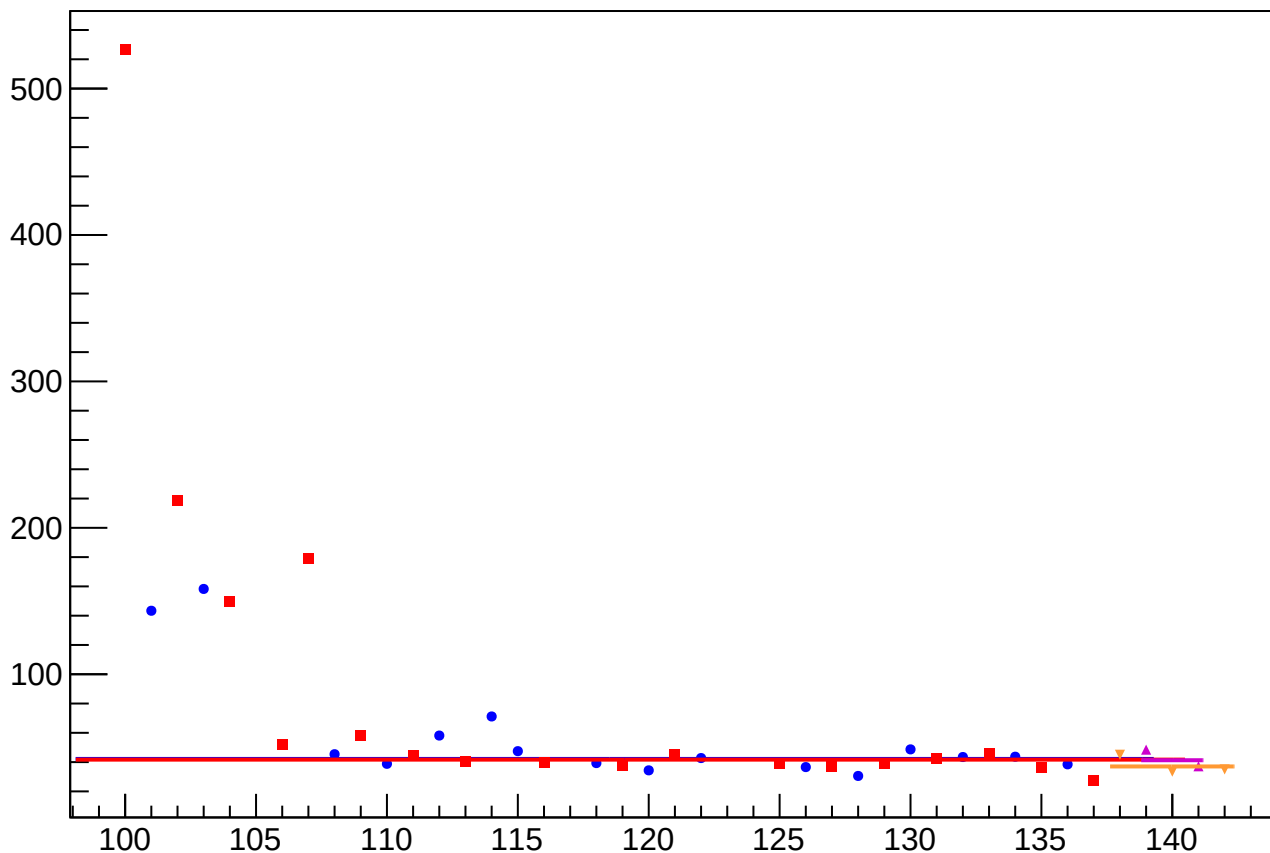
Right: 0.005 $\pm$ 0.013 χ^2 /NDF: 33.5/33

In: 0.010 $\pm$ 0.016 χ^2 /NDF:17.5/17

Out: 0.012 $\pm$ 0.016 χ^2 /NDF:20.2/20

All: 0.011 $\pm$ 0.011 χ^2 /NDF: 37.7/38

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 42.163+/-0.013 χ^2/NDF : 1454592.8/15

Left Out: 37.030+/-0.021 χ^2/NDF : 57224.7/2

Right Out: 41.692+/-0.013 χ^2/NDF : 1441185.4/17

Left In: 41.280+/-0.024 χ^2/NDF : 51884.0/1

Left: 38.848+/-0.016 χ^2/NDF : 127062.0/4

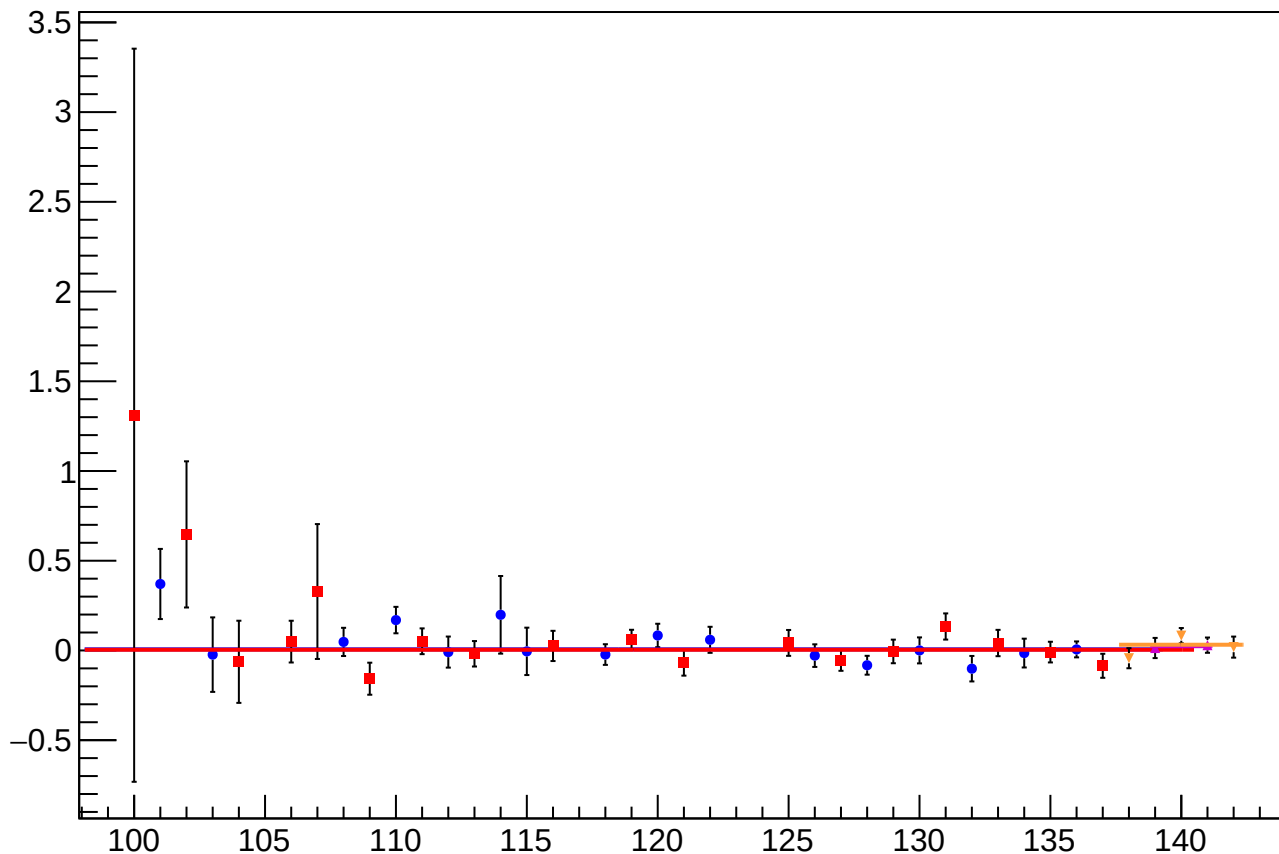
Right: 41.932+/-0.009 χ^2/NDF : 2896430.8/33

In: 41.965+/-0.011 χ^2/NDF : 1507526.6/17

Out: 40.357+/-0.011 χ^2/NDF : 1534446.8/20

All: 41.142+/-0.008 χ^2/NDF : 3052210.0/38

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.018 χ^2 /NDF: 17.2/15

Left Out: 0.032 $\pm$ 0.029 χ^2 /NDF:3.3/2

Right Out: 0.004 $\pm$ 0.019 χ^2 /NDF: 16.3/17

Left In: 0.024 $\pm$ 0.034 χ^2 /NDF:0.1/1

Left: 0.028 $\pm$ 0.022 χ^2 /NDF: 3.3/4

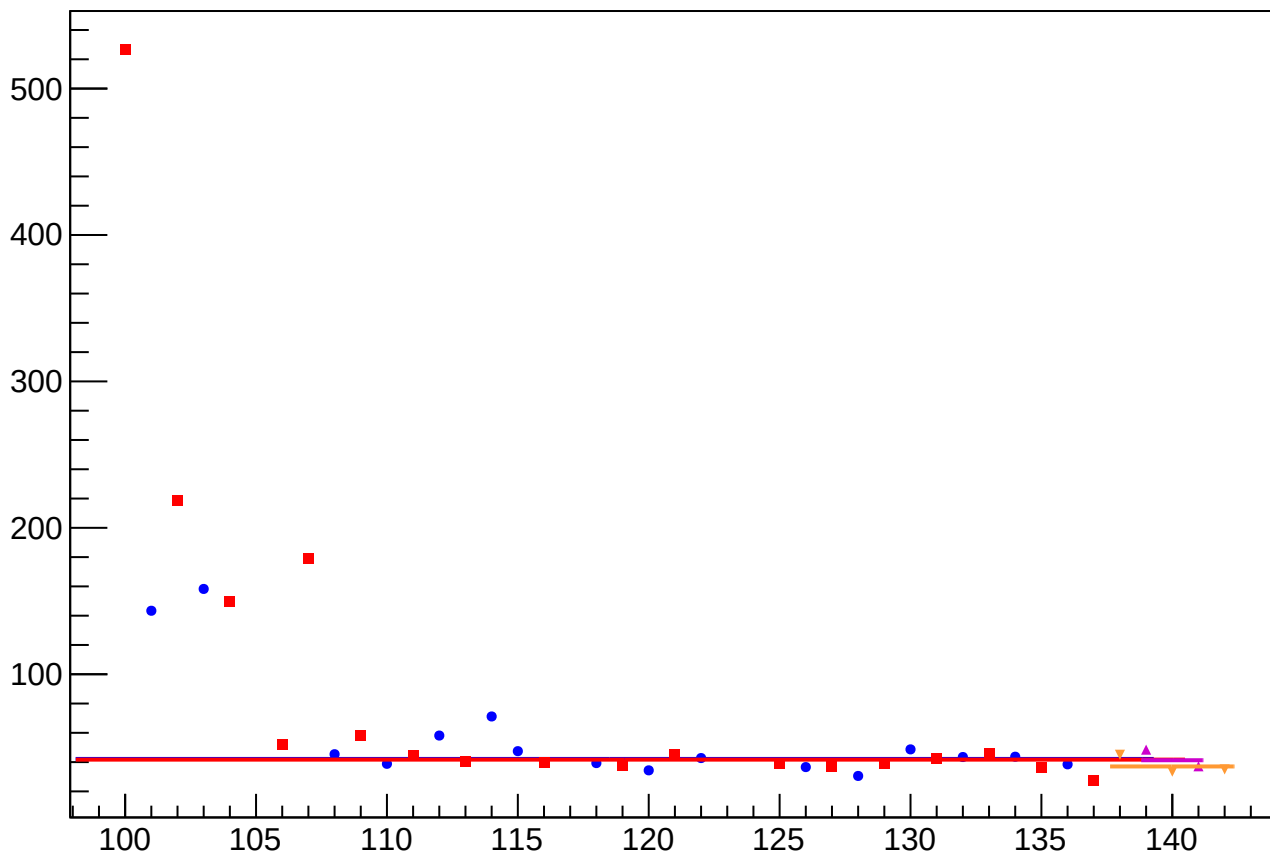
Right: 0.005 $\pm$ 0.013 χ^2 /NDF: 33.5/33

In: 0.010 $\pm$ 0.016 χ^2 /NDF:17.5/17

Out: 0.012 $\pm$ 0.016 χ^2 /NDF:20.2/20

All: 0.011 $\pm$ 0.011 χ^2 /NDF: 37.7/38

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 42.163+/-0.013 χ^2/NDF : 1454592.8/15

Left Out: 37.030+/-0.021 χ^2/NDF : 57224.7/2

Right Out: 41.692+/-0.013 χ^2/NDF : 1441185.4/17

Left In: 41.280+/-0.024 χ^2/NDF : 51884.0/1

Left: 38.848+/-0.016 χ^2/NDF : 127062.0/4

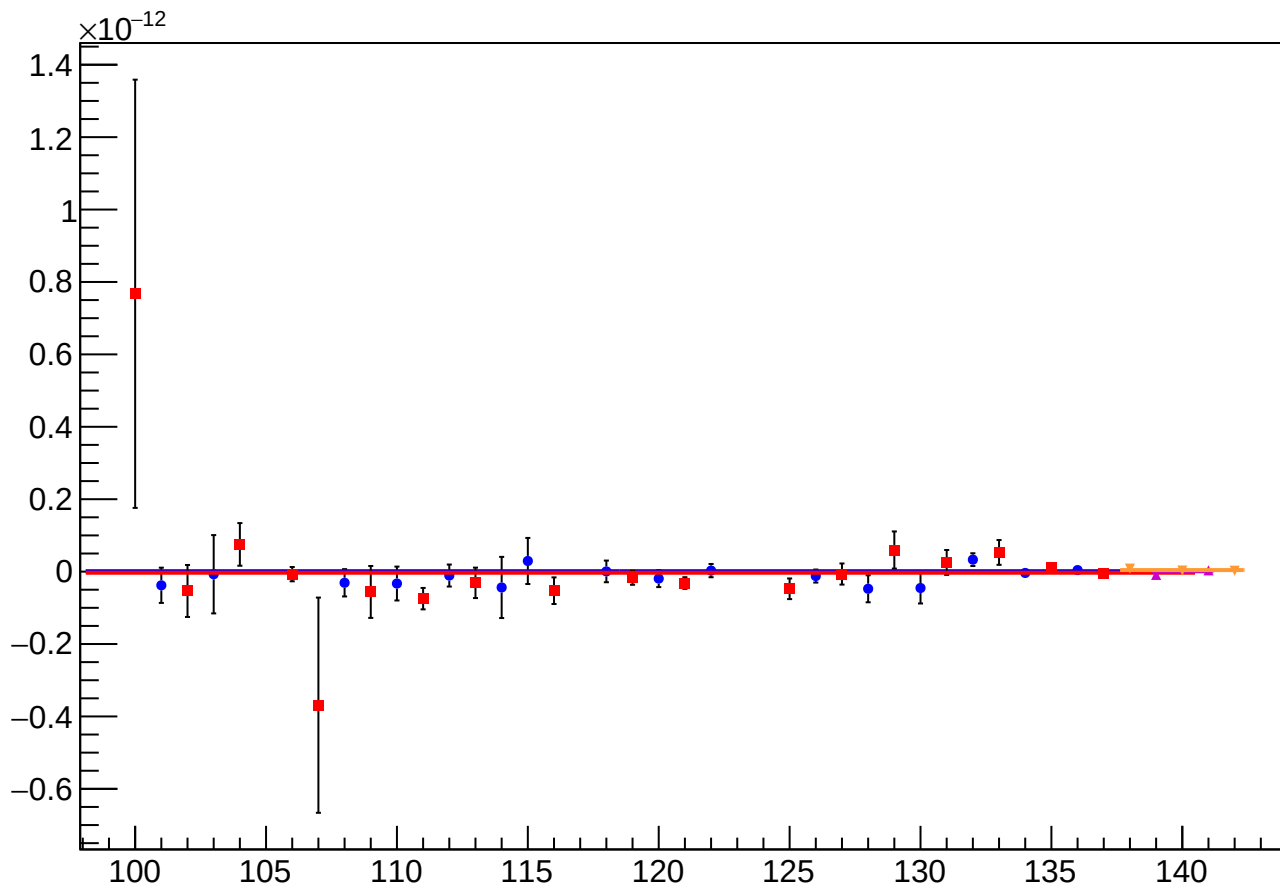
Right: 41.932+/-0.009 χ^2/NDF : 2896430.8/33

In: 41.965+/-0.011 χ^2/NDF : 1507526.6/17

Out: 40.357+/-0.011 χ^2/NDF : 1534446.8/20

All: 41.142+/-0.008 χ^2/NDF : 3052210.0/38

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1.0/2

Right Out: -0.000+/-0.000 χ^2/NDF : 28.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 2.6/1

Left: 0.000+/-0.000 χ^2/NDF : 4.3/4

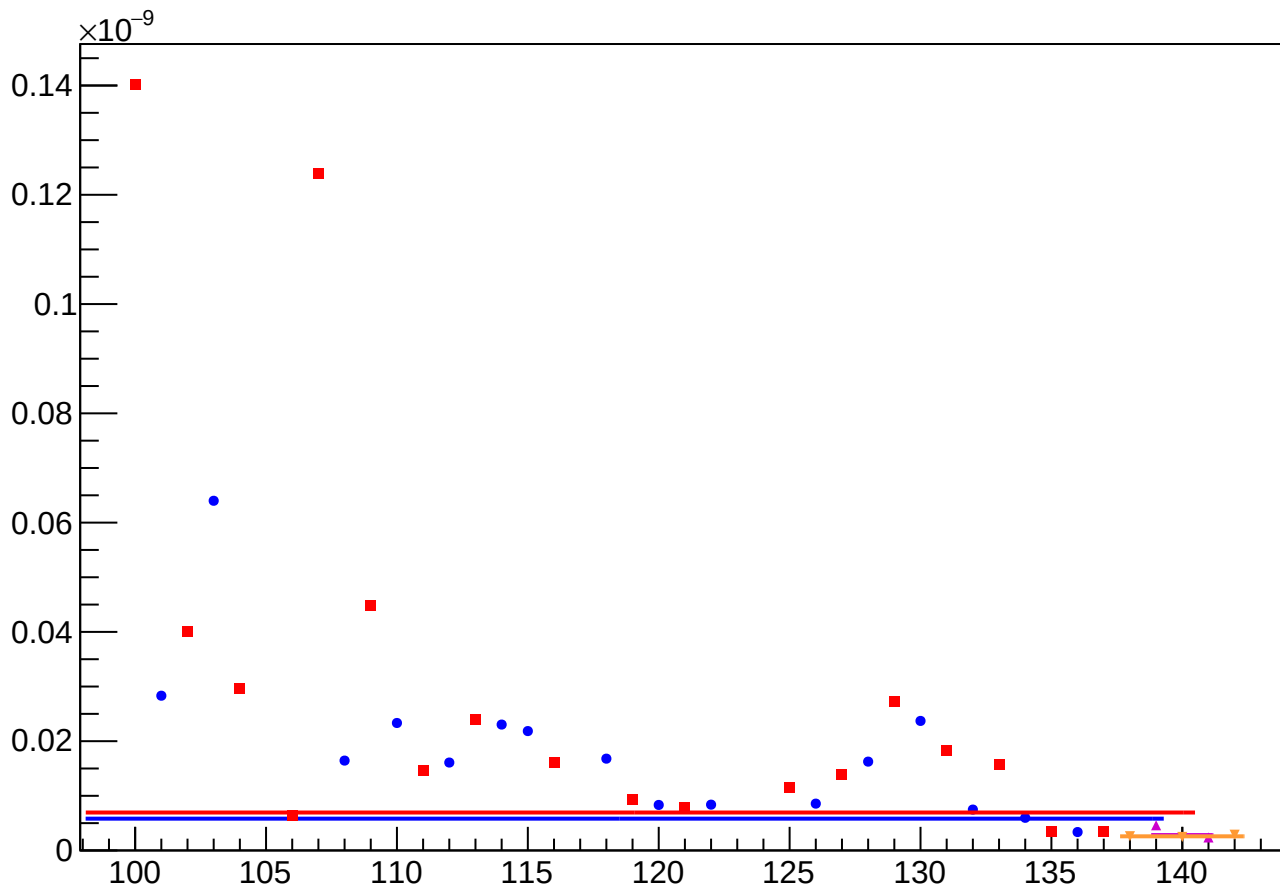
Right: -0.000+/-0.000 χ^2/NDF : 39.8/33

In: 0.000+/-0.000 χ^2/NDF : 13.1/17

Out: 0.000+/-0.000 χ^2/NDF : 31.7/20

All: 0.000+/-0.000 χ^2/NDF : 45.1/38

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3296021.2/15

Left Out: 0.000+/-0.000 χ^2/NDF :8001.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3789910.8/17

Left In: 0.000+/-0.000 χ^2/NDF :163461.0/1

Left: 0.000+/-0.000 χ^2/NDF : 178256.9/4

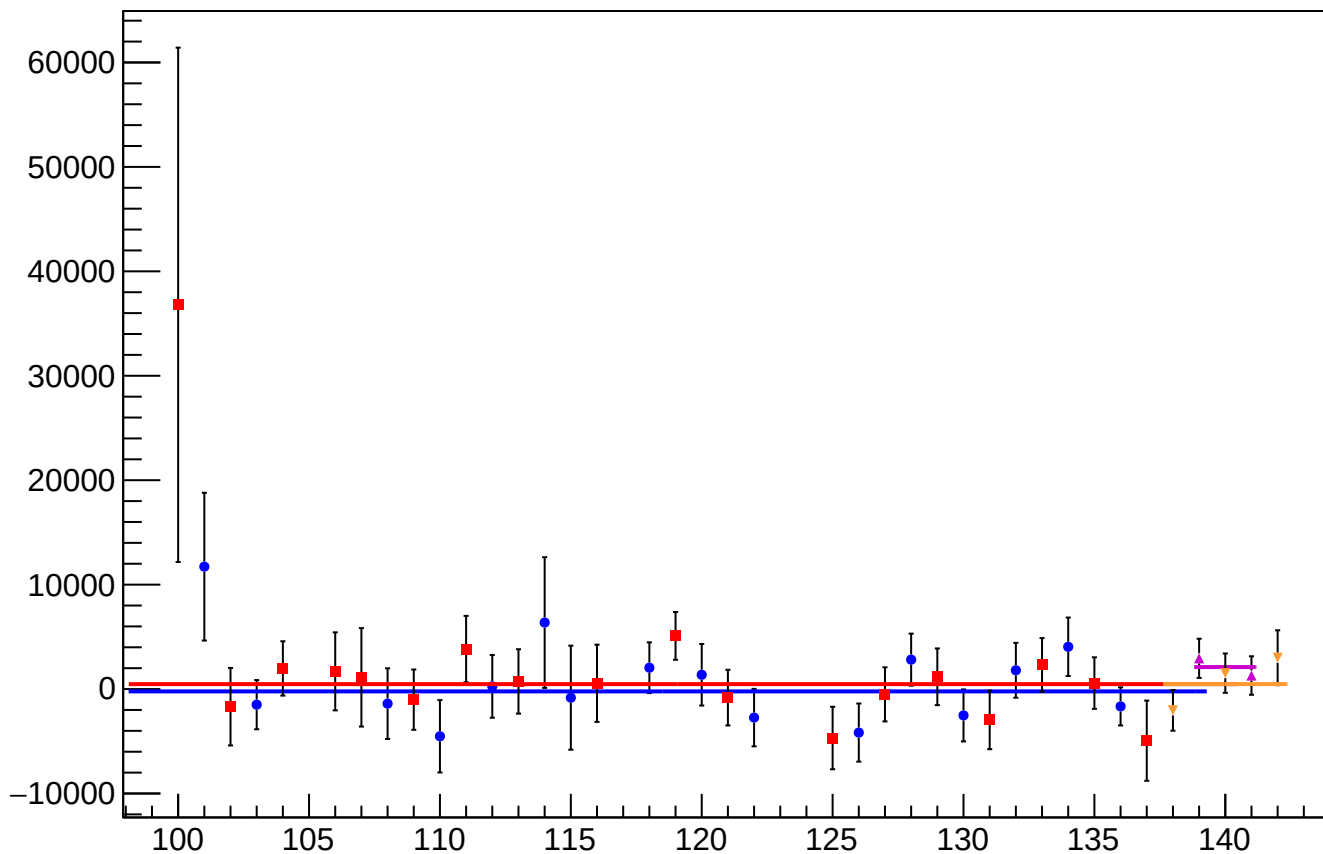
Right: 0.000+/-0.000 χ^2/NDF : 7152698.2/33

In: 0.000+/-0.000 χ^2/NDF :4183011.2/17

Out: 0.000+/-0.000 χ^2/NDF :5133964.8/20

All: 0.000+/-0.000 χ^2/NDF : 9358909.5/38

reg_asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: -222.980+/-709.150 χ^2/NDF : 15.8/15

Left Out: 476.702+/-1204.465 χ^2/NDF : 2.9/2

Right Out: 472.410+/-711.475 χ^2/NDF : 15.9/17

Left In: 2106.078+/-1314.234 χ^2/NDF : 0.4/1

Left: 1220.514+/-887.961 χ^2/NDF : 4.1/4

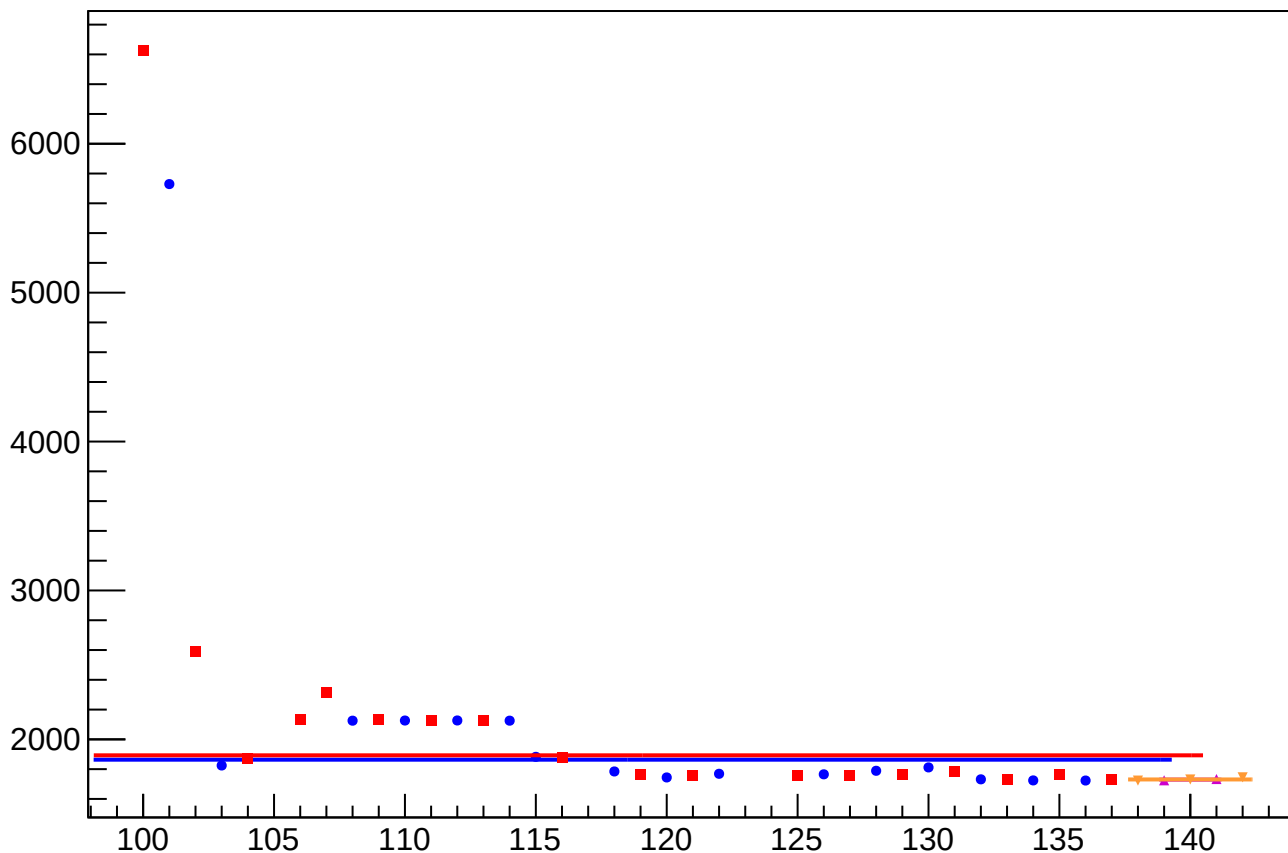
Right: 123.577+/-502.265 χ^2/NDF : 32.2/33

In: 302.229+/-624.092 χ^2/NDF : 18.7/17

Out: 473.520+/-612.585 χ^2/NDF : 18.8/20

All: 389.468+/-437.174 χ^2/NDF : 37.5/38

reg_asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1863.581+/-0.501 χ^2/NDF : 674665.6/15

Left Out: 1730.804+/-0.852 χ^2/NDF : 89.7/2

Right Out: 1892.866+/-0.503 χ^2/NDF : 251512.9/17

Left In: 1729.507+/-0.929 χ^2/NDF : 21.2/1

Left: 1730.212+/-0.628 χ^2/NDF : 111.9/4

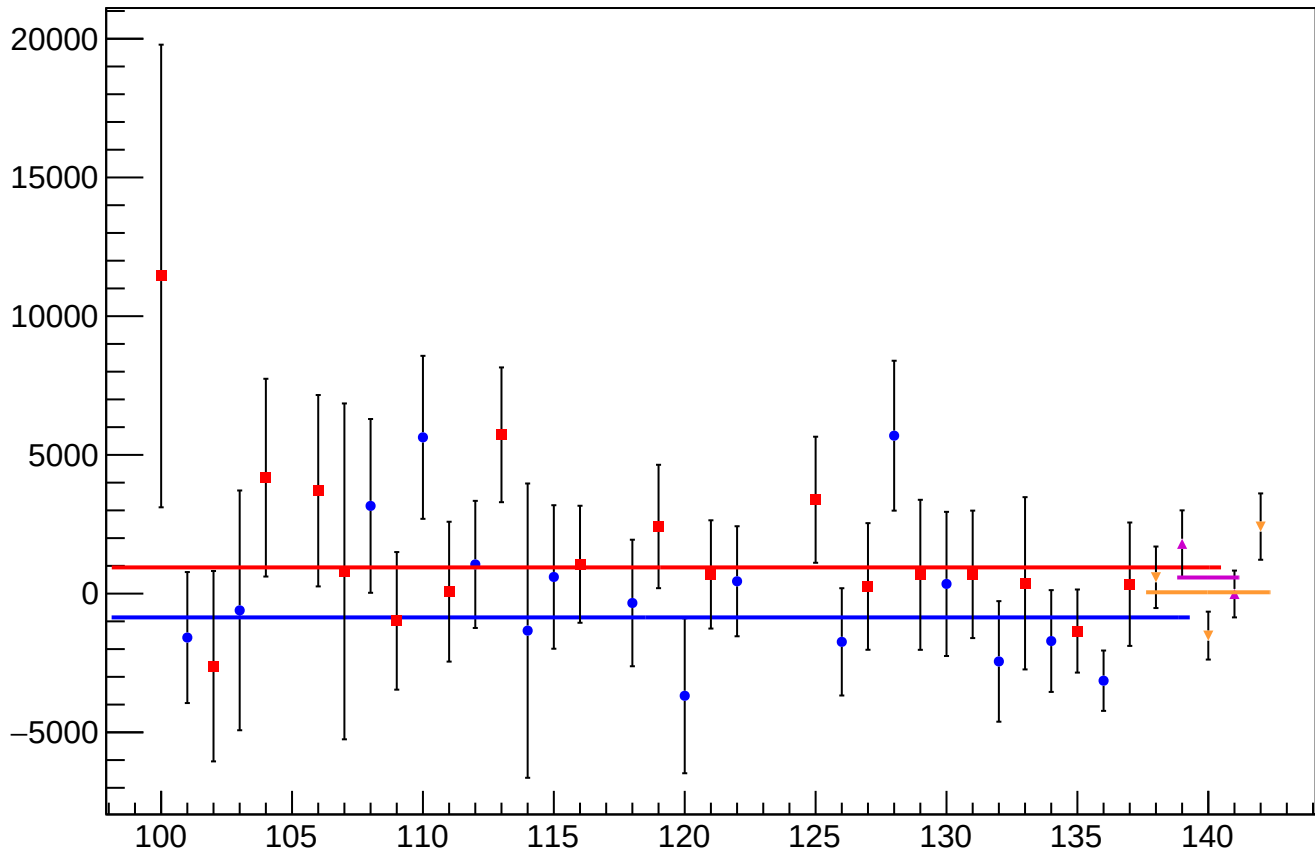
Right: 1878.175+/-0.355 χ^2/NDF : 927878.2/33

In: 1833.347+/-0.441 χ^2/NDF : 690807.9/17

Out: 1850.946+/-0.433 χ^2/NDF : 278444.5/20

All: 1842.310+/-0.309 χ^2/NDF : 970062.4/38

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -857.294+/-549.791 χ^2/NDF : 20.6/15

Left Out: 48.111+/-591.903 χ^2/NDF : 7.4/2

Right Out: 944.718+/-583.967 χ^2/NDF : 12.9/17

Left In: 580.671+/-691.364 χ^2/NDF : 1.5/1

Left: 273.361+/-449.629 χ^2/NDF : 9.3/4

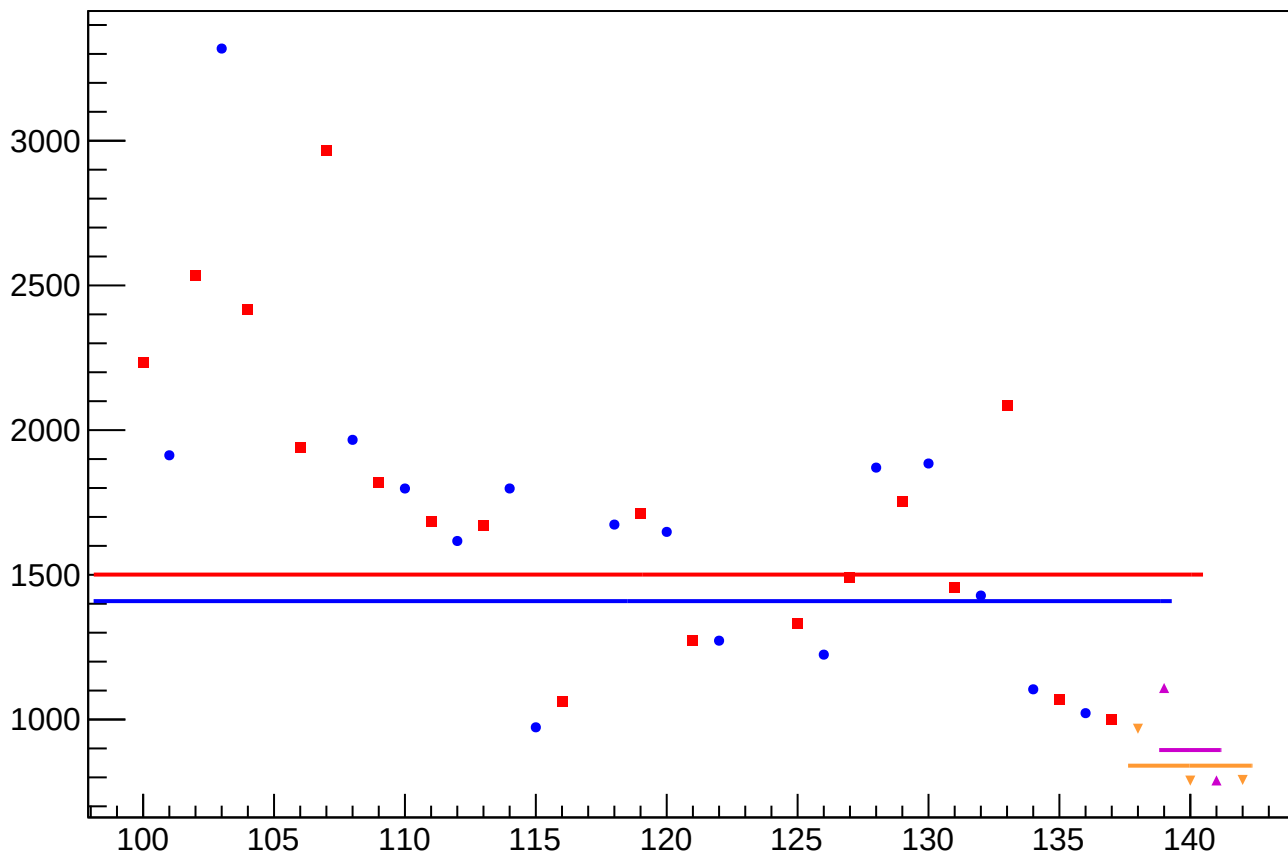
Right: -10.558+/-400.298 χ^2/NDF : 38.6/33

In: -300.227+/-430.315 χ^2/NDF : 24.8/17

Out: 502.465+/-415.704 χ^2/NDF : 21.5/20

All: 114.977+/-298.979 χ^2/NDF : 48.1/38

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1409.096+/-0.389 χ^2/NDF : 1167706.6/15

Left Out: 840.462+/-0.419 χ^2/NDF : 37068.3/2

Right Out: 1500.801+/-0.413 χ^2/NDF : 1030768.2/17

Left In: 894.456+/-0.489 χ^2/NDF : 94174.9/1

Left: 863.299+/-0.318 χ^2/NDF : 138282.4/4

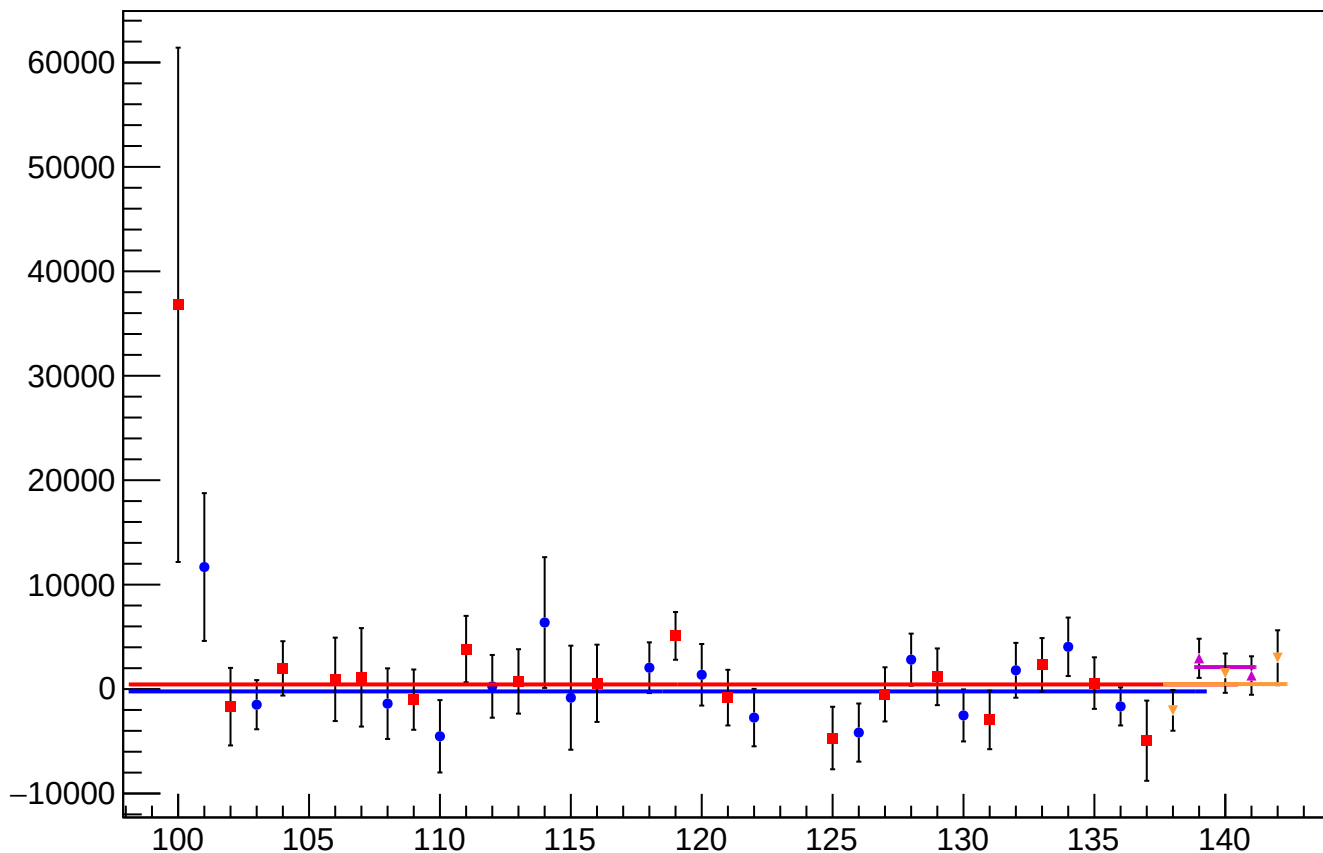
Right: 1452.187+/-0.283 χ^2/NDF : 2224621.1/33

In: 1209.725+/-0.304 χ^2/NDF : 1940771.9/17

Out: 1175.088+/-0.294 χ^2/NDF : 2329242.8/20

All: 1191.808+/-0.211 χ^2/NDF : 4276717.3/38

cor_asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: -223.754+/-709.151 χ^2/NDF : 15.8/15

Left Out: 476.774+/-1204.465 χ^2/NDF : 2.9/2

Right Out: 443.022+/-713.098 χ^2/NDF : 15.8/17

Left In: 2105.997+/-1314.234 χ^2/NDF : 0.4/1

Left: 1220.516+/-887.961 χ^2/NDF : 4.1/4

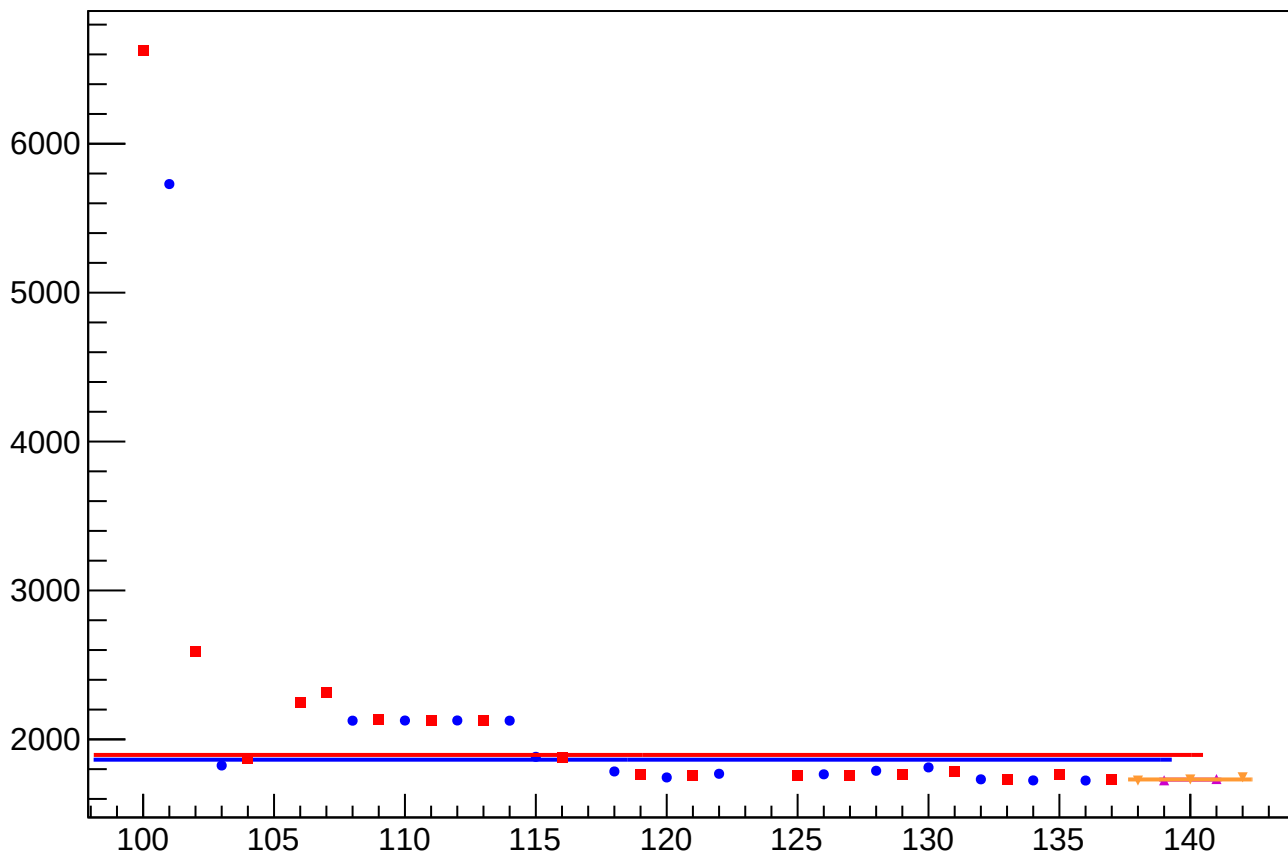
Right: 107.783+/-502.835 χ^2/NDF : 32.0/33

In: 301.611+/-624.092 χ^2/NDF : 18.6/17

Out: 451.782+/-613.620 χ^2/NDF : 18.7/20

All: 377.967+/-437.550 χ^2/NDF : 37.3/38

cor_asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1863.581 $\pm$ 0.501 χ^2 /NDF: 674665.4/15

Left Out: 1730.804 $\pm$ 0.852 χ^2 /NDF:89.7/2

Right Out: 1895.491 $\pm$ 0.504 χ^2 /NDF: 259171.7/17

Left In: 1729.507 $\pm$ 0.929 χ^2 /NDF:21.2/1

Left: 1730.212 $\pm$ 0.628 χ^2 /NDF: 111.9/4

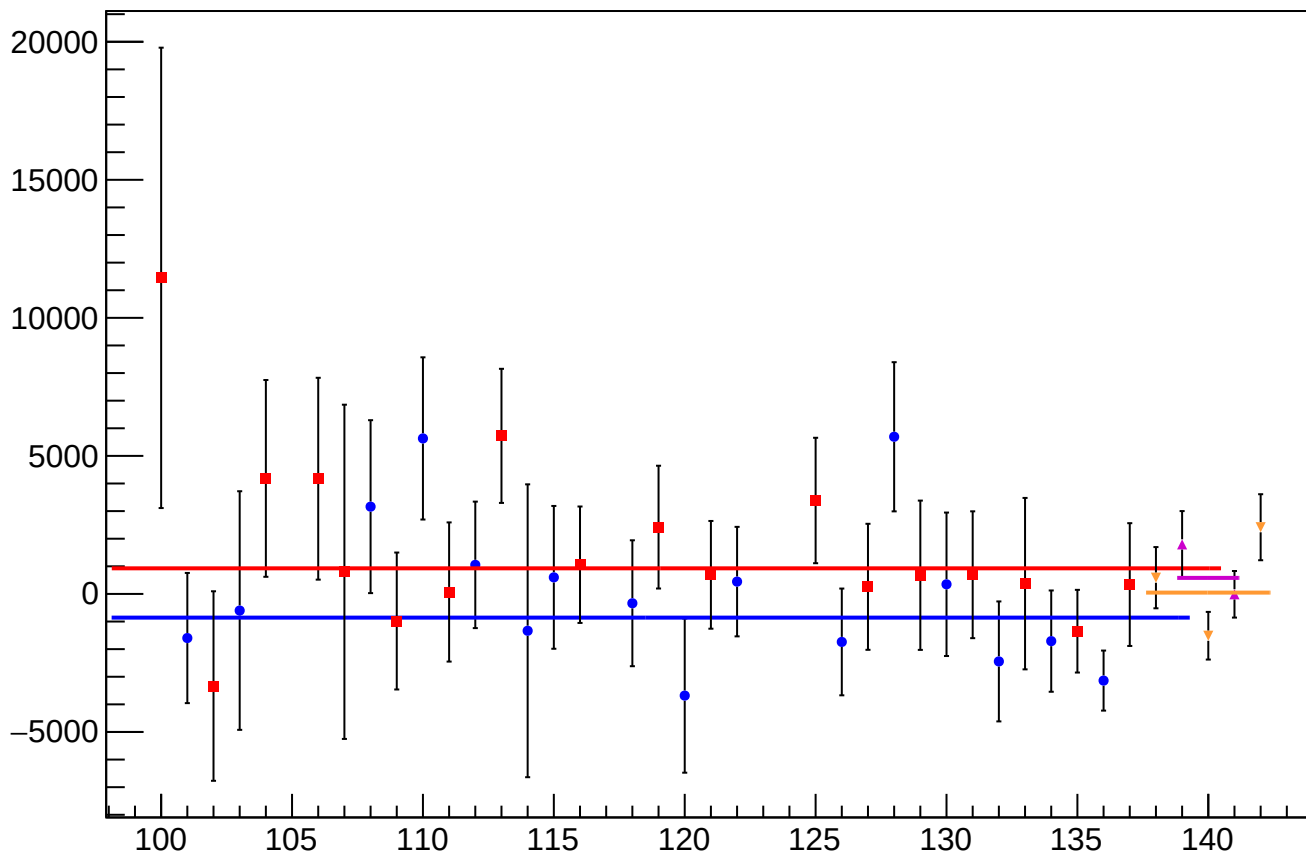
Right: 1879.447 $\pm$ 0.356 χ^2 /NDF: 935850.8/33

In: 1833.347 $\pm$ 0.441 χ^2 /NDF:690807.8/17

Out: 1852.748 $\pm$ 0.434 χ^2 /NDF:286947.4/20

All: 1843.211 $\pm$ 0.309 χ^2 /NDF: 978737.9/38

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -858.115 $\pm$ 549.748 χ^2 /NDF: 20.6/15

Left Out: 48.037 $\pm$ 591.911 χ^2 /NDF:7.4/2

Right Out: 927.191 $\pm$ 584.886 χ^2 /NDF: 13.5/17

Left In: 580.715 $\pm$ 691.350 χ^2 /NDF:1.5/1

Left: 273.346 $\pm$ 449.629 χ^2 /NDF: 9.3/4

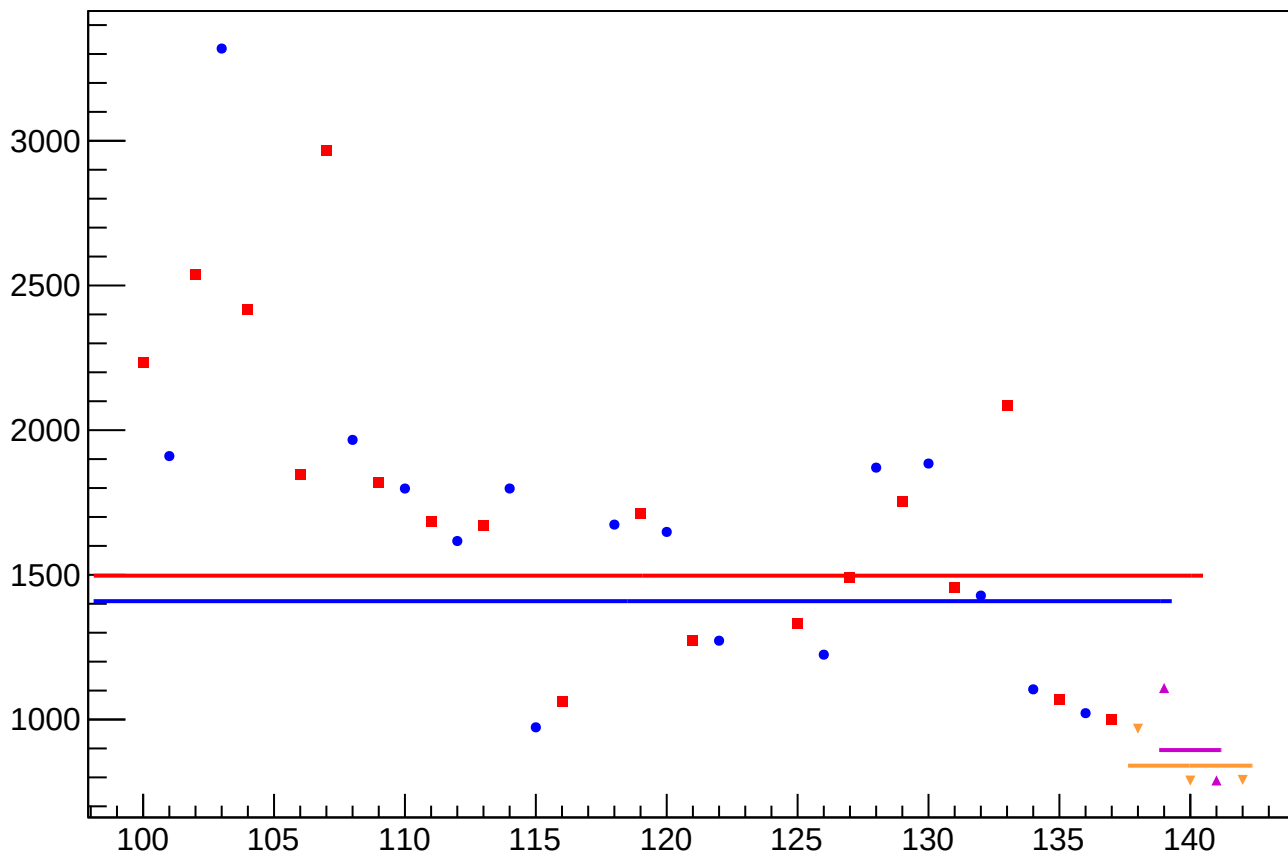
Right: -20.697 $\pm$ 400.577 χ^2 /NDF: 39.1/33

In: -300.752 $\pm$ 430.291 χ^2 /NDF:24.8/17

Out: 492.862 $\pm$ 416.038 χ^2 /NDF:22.1/20

All: 109.416 $\pm$ 299.095 χ^2 /NDF: 48.6/38

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1409.018+/-0.389 χ^2/NDF : 1167065.5/15

Left Out: 840.475+/-0.419 χ^2/NDF : 37055.8/2

Right Out: 1497.149+/-0.414 χ^2/NDF : 1018123.6/17

Left In: 894.436+/-0.489 χ^2/NDF : 94180.9/1

Left: 863.299+/-0.318 χ^2/NDF : 138267.3/4

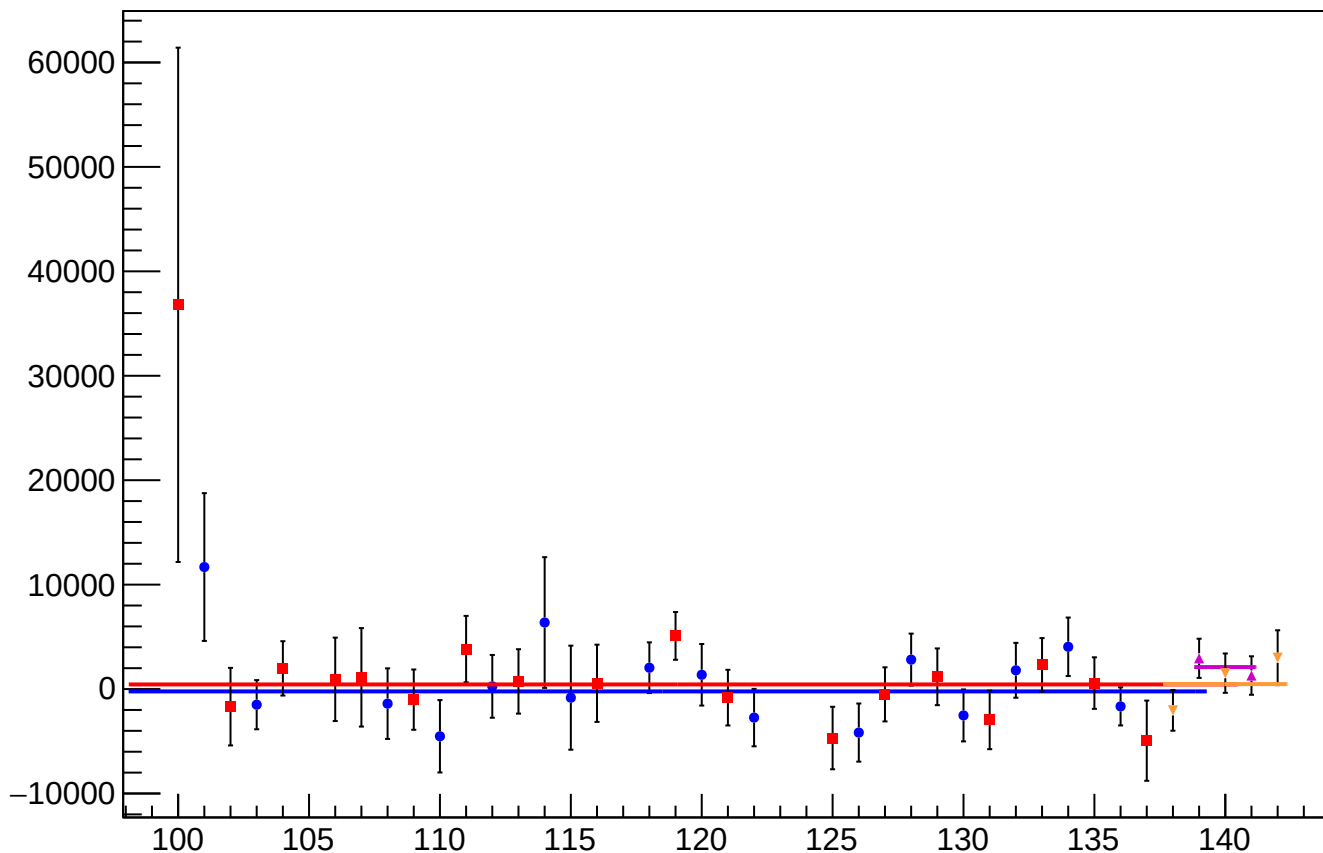
Right: 1450.357+/-0.283 χ^2/NDF : 2209298.3/33

In: 1209.684+/-0.304 χ^2/NDF : 1940042.7/17

Out: 1172.732+/-0.294 χ^2/NDF : 2300669.8/20

All: 1190.585+/-0.211 χ^2/NDF : 4248335.6/38

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: -223.754+/-709.151 χ^2/NDF : 15.8/15

Left Out: 476.774+/-1204.465 χ^2/NDF : 2.9/2

Right Out: 443.022+/-713.098 χ^2/NDF : 15.8/17

Left In: 2105.997+/-1314.234 χ^2/NDF : 0.4/1

Left: 1220.516+/-887.961 χ^2/NDF : 4.1/4

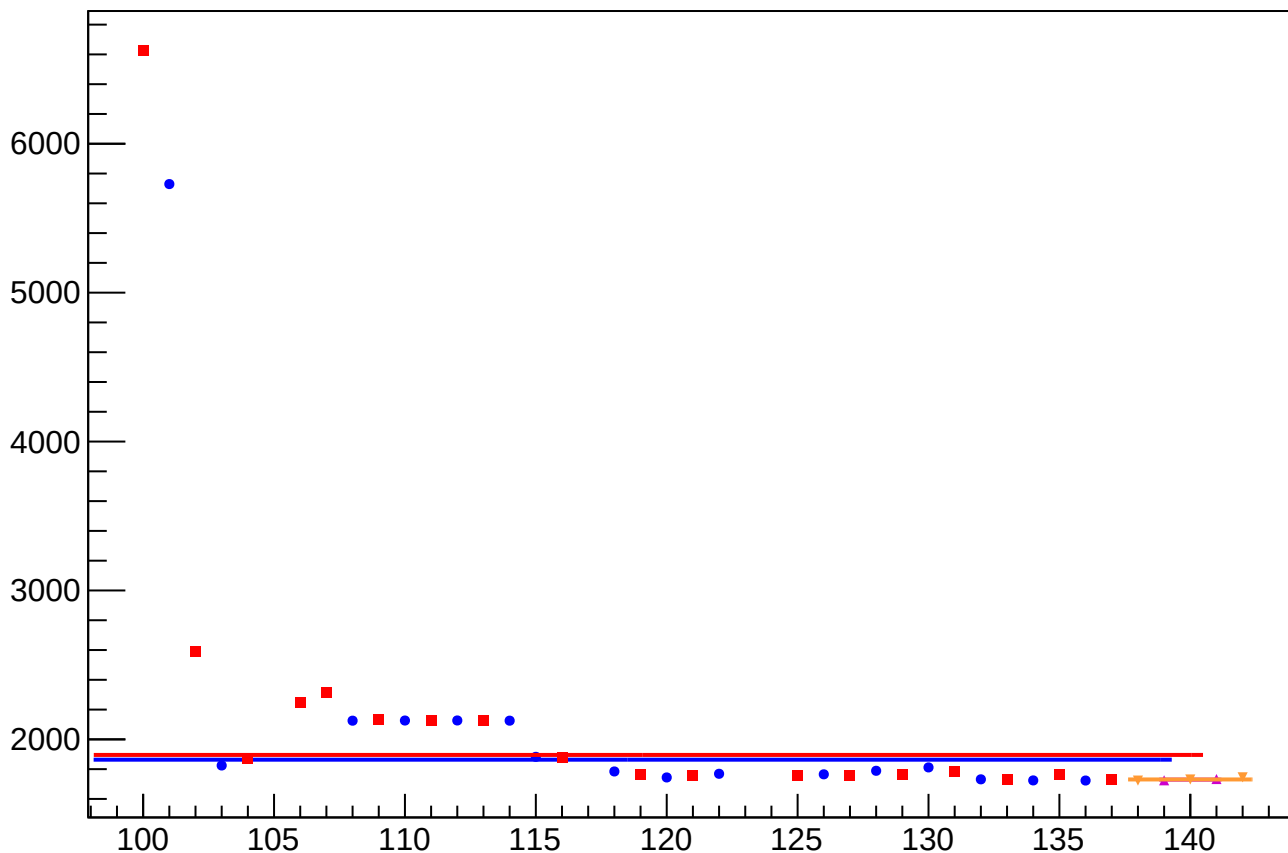
Right: 107.783+/-502.835 χ^2/NDF : 32.0/33

In: 301.611+/-624.092 χ^2/NDF : 18.6/17

Out: 451.782+/-613.620 χ^2/NDF : 18.7/20

All: 377.967+/-437.550 χ^2/NDF : 37.3/38

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1863.581+/-0.501 χ^2/NDF : 674665.4/15

Left Out: 1730.804+/-0.852 χ^2/NDF : 89.7/2

Right Out: 1895.491+/-0.504 χ^2/NDF : 259171.7/17

Left In: 1729.507+/-0.929 χ^2/NDF : 21.2/1

Left: 1730.212+/-0.628 χ^2/NDF : 111.9/4

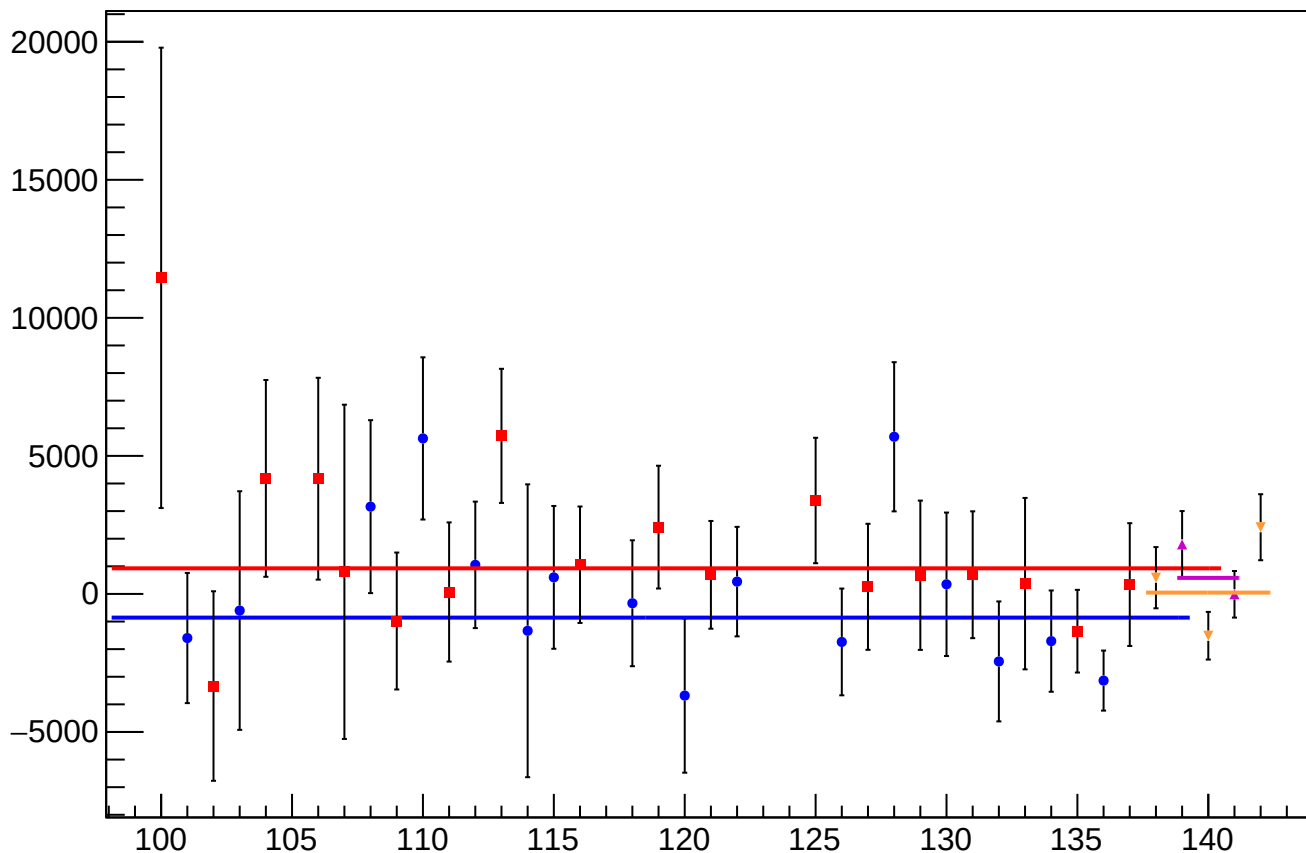
Right: 1879.447+/-0.356 χ^2/NDF : 935850.8/33

In: 1833.347+/-0.441 χ^2/NDF : 690807.8/17

Out: 1852.748+/-0.434 χ^2/NDF : 286947.4/20

All: 1843.211+/-0.309 χ^2/NDF : 978737.9/38

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -858.115+/-549.748 χ^2/NDF : 20.6/15

Left Out: 48.037+/-591.911 χ^2/NDF : 7.4/2

Right Out: 927.191+/-584.886 χ^2/NDF : 13.5/17

Left In: 580.715+/-691.350 χ^2/NDF : 1.5/1

Left: 273.346+/-449.629 χ^2/NDF : 9.3/4

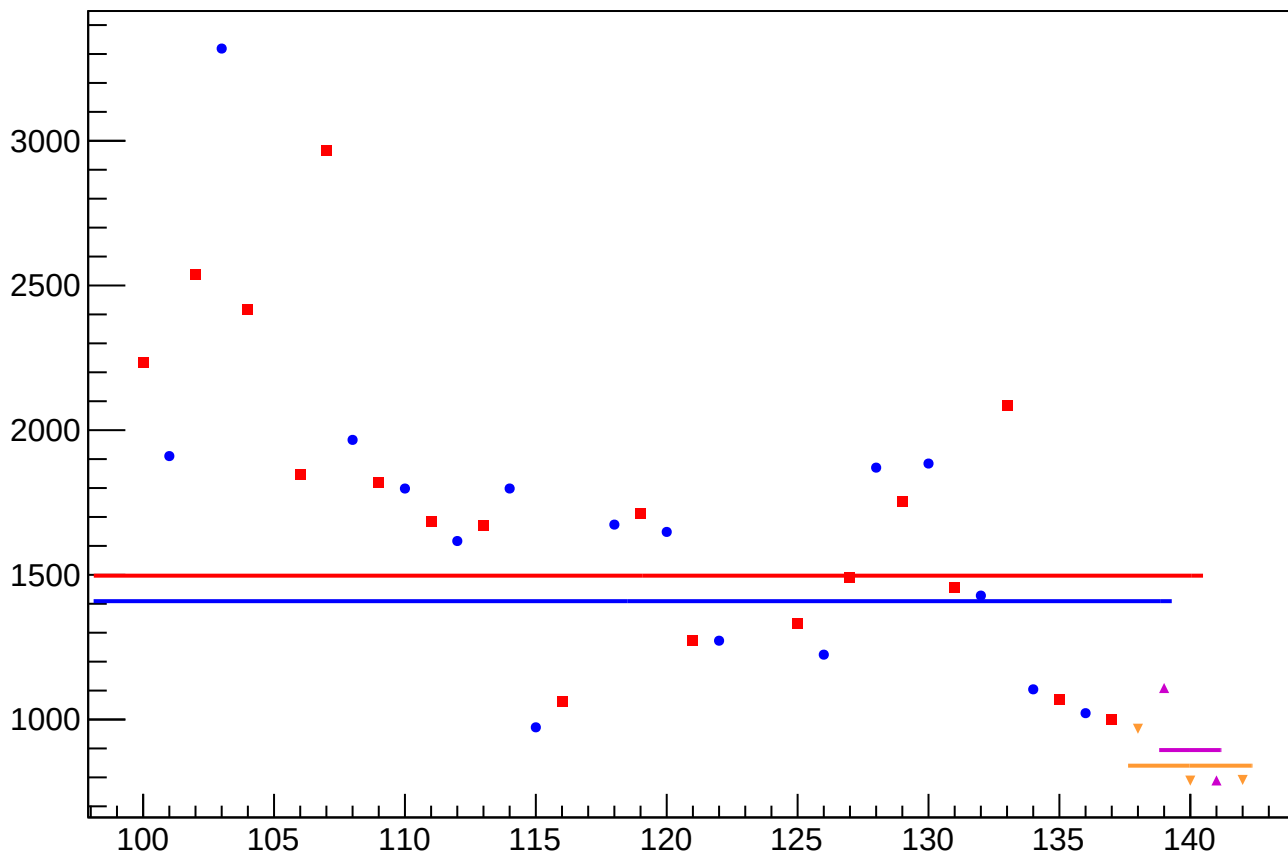
Right: -20.697+/-400.577 χ^2/NDF : 39.1/33

In: -300.752+/-430.291 χ^2/NDF : 24.8/17

Out: 492.862+/-416.038 χ^2/NDF : 22.1/20

All: 109.416+/-299.095 χ^2/NDF : 48.6/38

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1409.018+/-0.389 χ^2/NDF : 1167065.5/15

Left Out: 840.475+/-0.419 χ^2/NDF : 37055.8/2

Right Out: 1497.149+/-0.414 χ^2/NDF : 1018123.6/17

Left In: 894.436+/-0.489 χ^2/NDF : 94180.9/1

Left: 863.299+/-0.318 χ^2/NDF : 138267.3/4

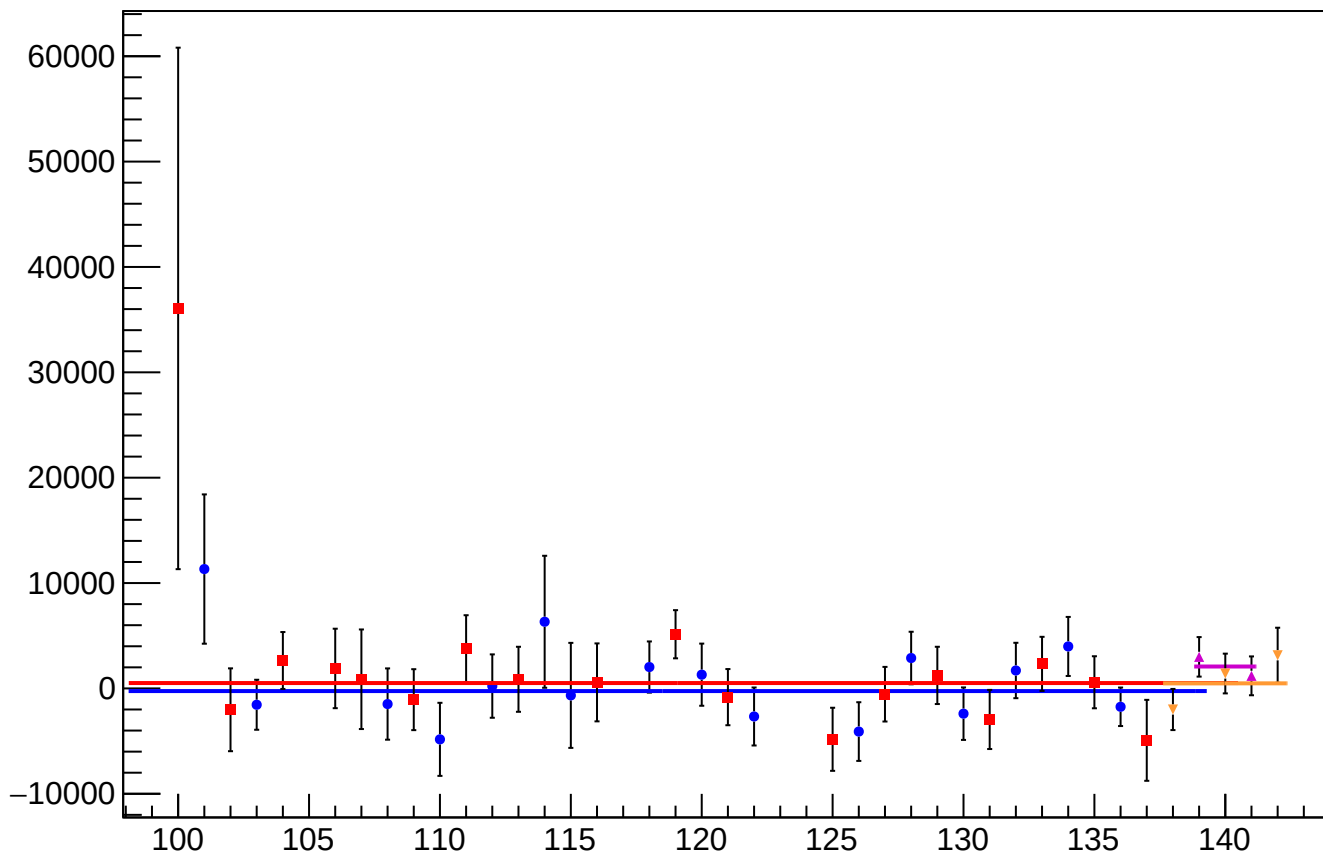
Right: 1450.357+/-0.283 χ^2/NDF : 2209298.3/33

In: 1209.684+/-0.304 χ^2/NDF : 1940042.7/17

Out: 1172.732+/-0.294 χ^2/NDF : 2300669.8/20

All: 1190.585+/-0.211 χ^2/NDF : 4248335.6/38

dit_asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: -252.024+/-709.973 χ^2/NDF : 15.6/15

Left Out: 481.033+/-1204.181 χ^2/NDF : 2.9/2

Right Out: 510.117+/-715.442 χ^2/NDF : 16.4/17

Left In: 2079.112+/-1314.862 χ^2/NDF : 0.5/1

Left: 1209.992+/-888.040 χ^2/NDF : 4.2/4

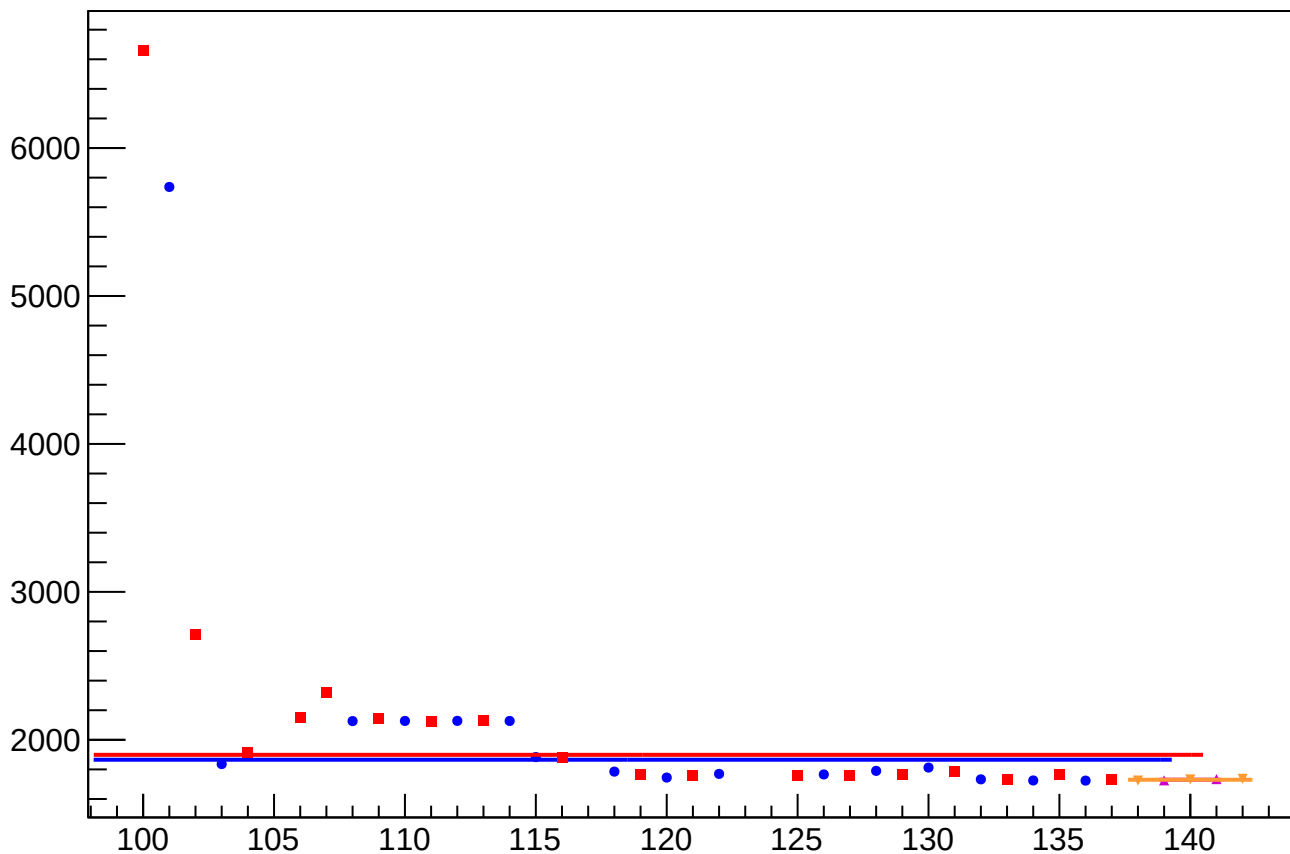
Right: 126.122+/-503.949 χ^2/NDF : 32.6/33

In: 274.208+/-624.719 χ^2/NDF : 18.6/17

Out: 502.529+/-615.073 χ^2/NDF : 19.3/20

All: 390.145+/-438.293 χ^2/NDF : 37.9/38

dit_asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1865.440 $\pm$ 0.502 χ^2 /NDF: 674989.6/15

Left Out: 1730.168 $\pm$ 0.851 χ^2 /NDF:29.7/2

Right Out: 1898.603 $\pm$ 0.506 χ^2 /NDF: 269110.1/17

Left In: 1730.333 $\pm$ 0.930 χ^2 /NDF:20.8/1

Left: 1730.243 $\pm$ 0.628 χ^2 /NDF: 50.6/4

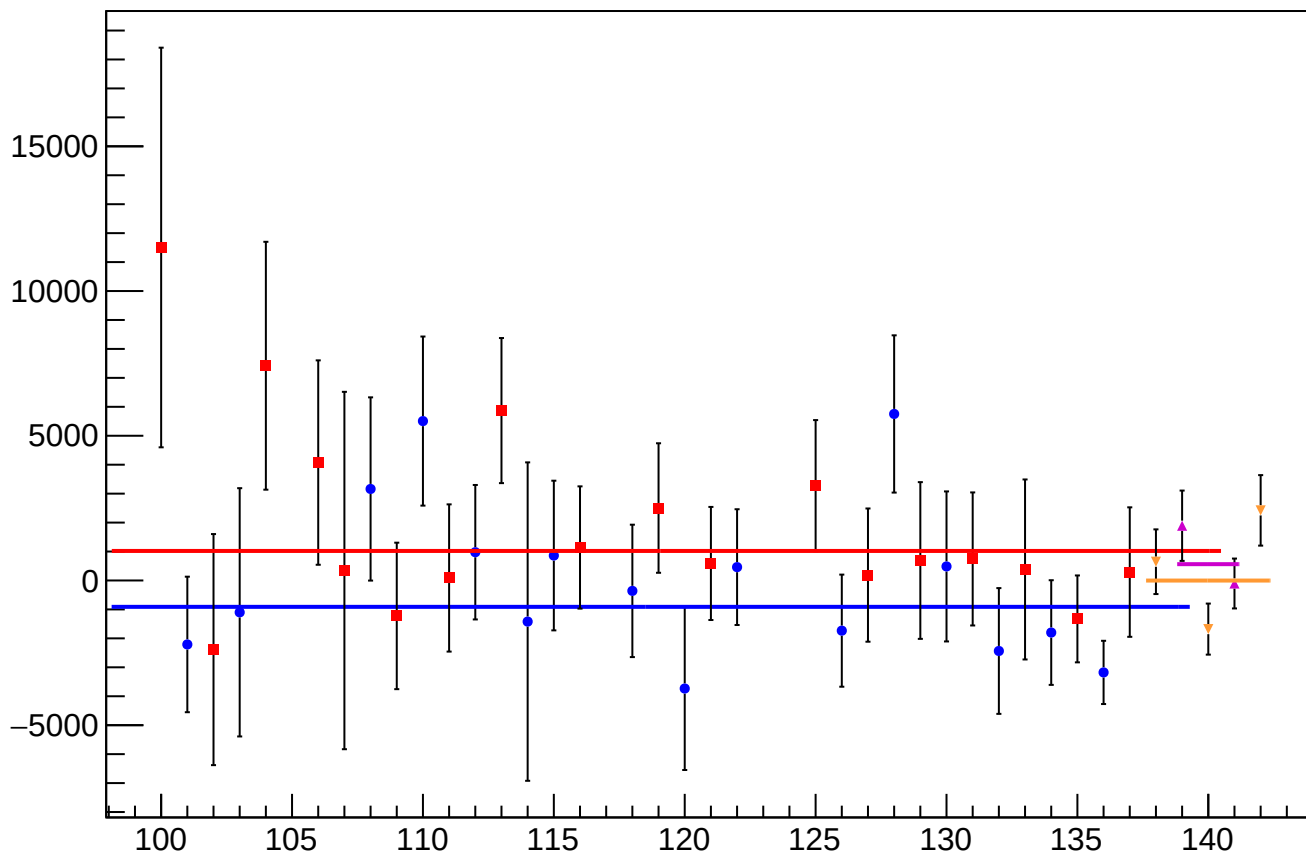
Right: 1881.894 $\pm$ 0.356 χ^2 /NDF: 946264.8/33

In: 1834.941 $\pm$ 0.442 χ^2 /NDF:691360.3/17

Out: 1854.659 $\pm$ 0.435 χ^2 /NDF:298060.8/20

All: 1844.953 $\pm$ 0.310 χ^2 /NDF: 990432.8/38

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -910.955 ± 550.836 χ^2/NDF : 21.0/15

Left Out: -2.792 ± 601.933 χ^2/NDF : 7.9/2

Right Out: 1020.124 ± 591.600 χ^2/NDF : 14.9/17

Left In: 563.490 ± 702.842 χ^2/NDF : 1.8/1

Left: 236.814 ± 457.183 χ^2/NDF : 10.1/4

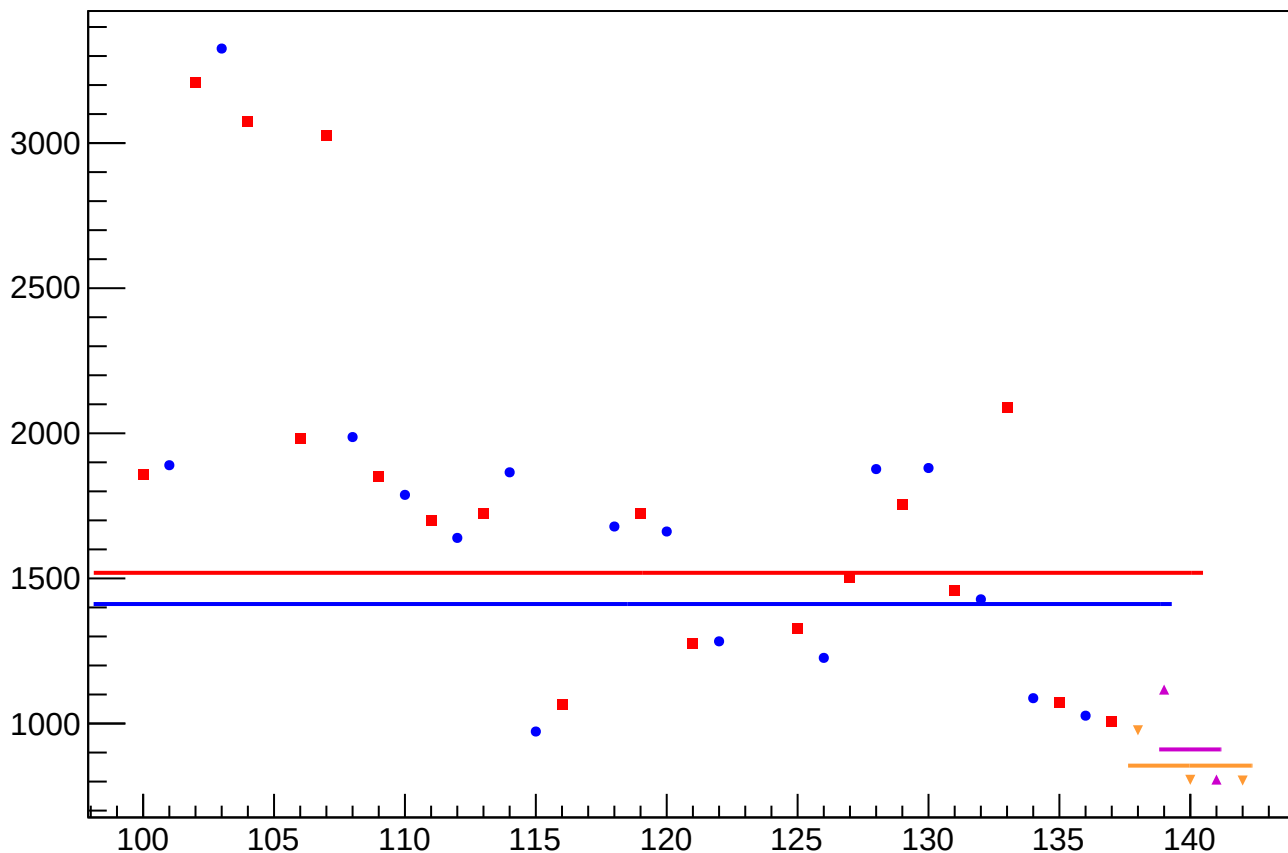
Right: -14.232 ± 403.141 χ^2/NDF : 41.6/33

In: -349.916 ± 433.551 χ^2/NDF : 25.5/17

Out: 517.521 ± 421.930 χ^2/NDF : 24.3/20

All: 95.583 ± 302.375 χ^2/NDF : 51.9/38

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1411.748+/-0.389 χ^2/NDF : 1177745.4/15

Left Out: 854.902+/-0.426 χ^2/NDF : 33425.5/2

Right Out: 1519.305+/-0.418 χ^2/NDF : 1360145.6/17

Left In: 910.754+/-0.497 χ^2/NDF : 86689.7/1

Left: 878.534+/-0.323 χ^2/NDF : 127400.8/4

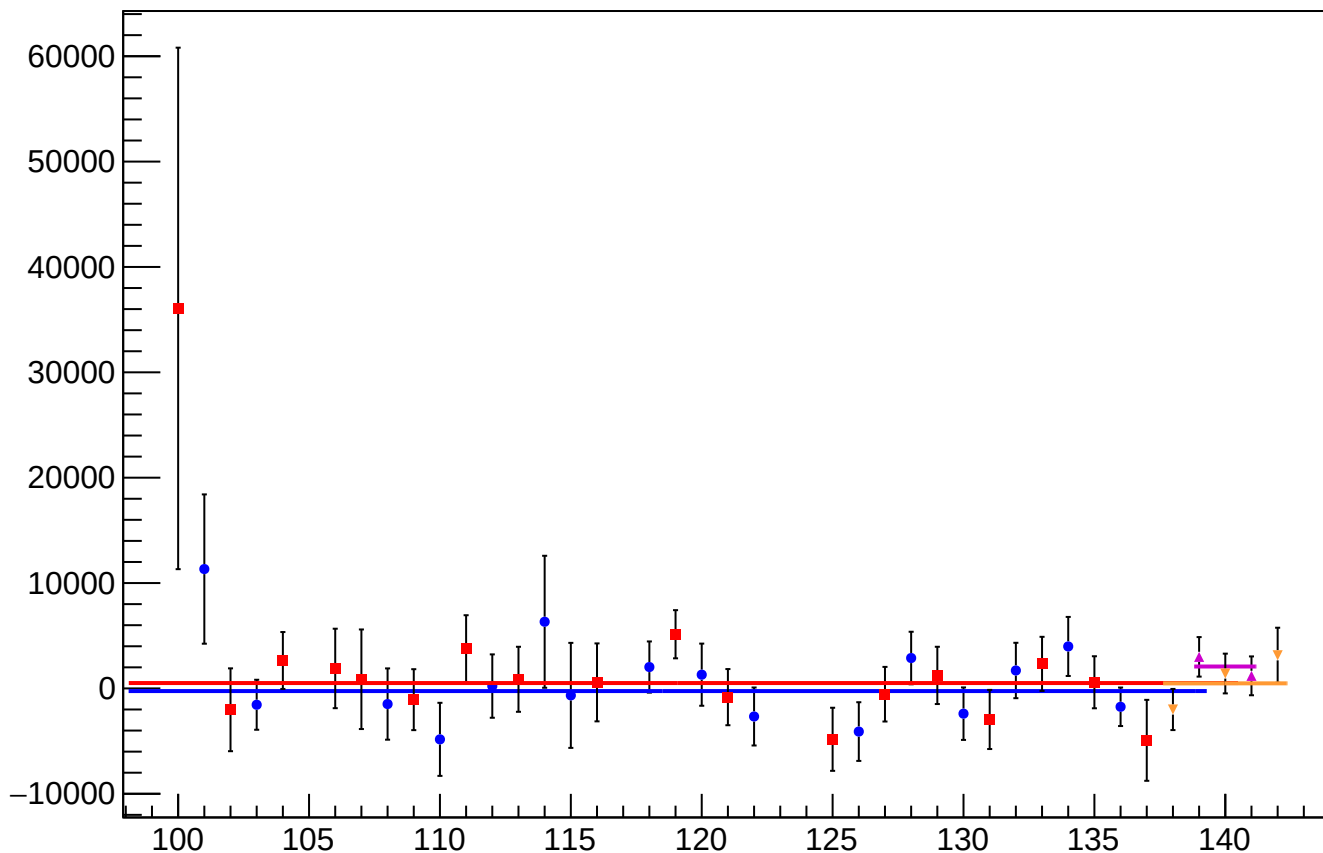
Right: 1461.694+/-0.285 χ^2/NDF : 2573300.6/33

In: 1221.115+/-0.307 χ^2/NDF : 1893963.6/17

Out: 1192.855+/-0.298 χ^2/NDF : 2632998.7/20

All: 1206.602+/-0.214 χ^2/NDF : 4531326.5/38

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: -252.023+/-709.973 χ^2/NDF : 15.6/15

Left Out: 481.034+/-1204.181 χ^2/NDF : 2.9/2

Right Out: 510.117+/-715.442 χ^2/NDF : 16.4/17

Left In: 2079.117+/-1314.862 χ^2/NDF : 0.5/1

Left: 1209.995+/-888.040 χ^2/NDF : 4.2/4

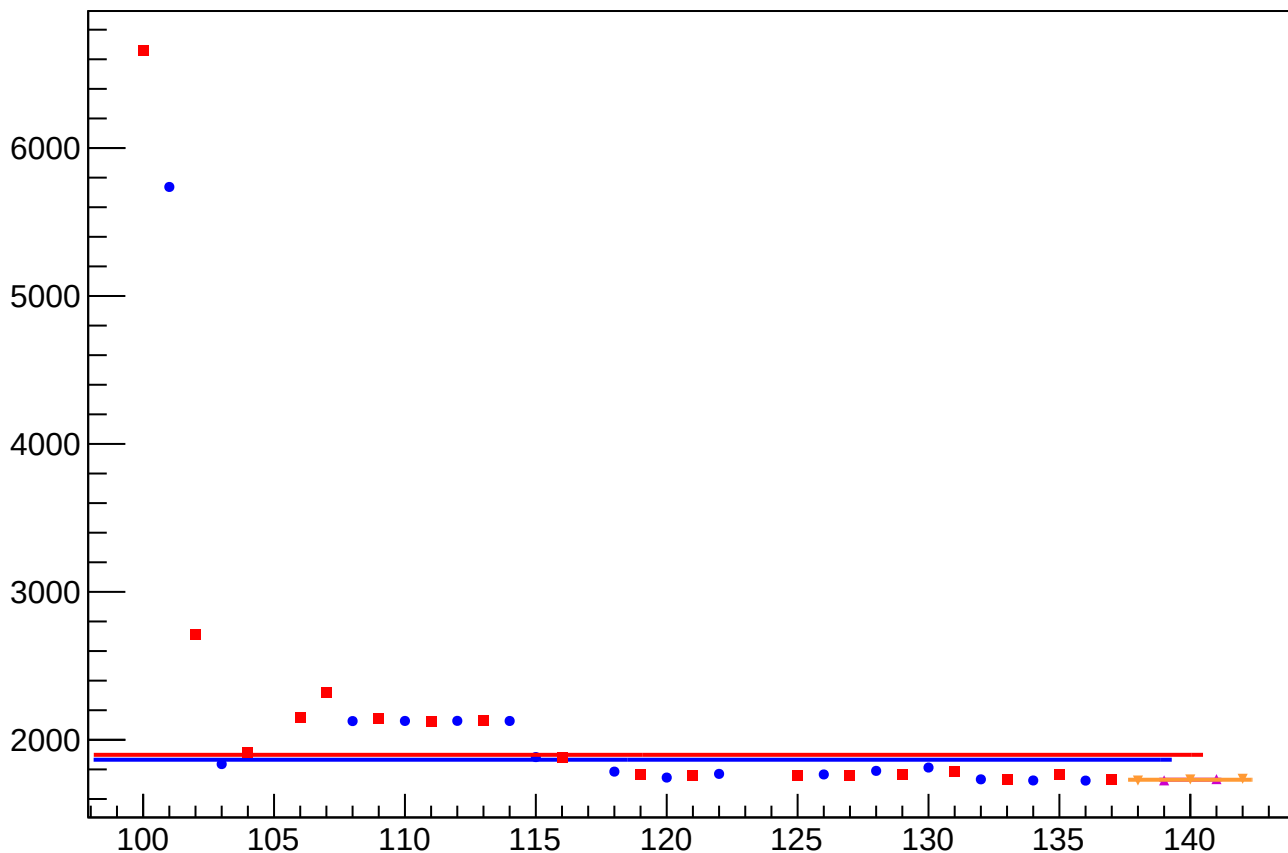
Right: 126.122+/-503.949 χ^2/NDF : 32.6/33

In: 274.209+/-624.719 χ^2/NDF : 18.6/17

Out: 502.529+/-615.073 χ^2/NDF : 19.3/20

All: 390.145+/-438.293 χ^2/NDF : 37.9/38

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1865.440+/-0.502 χ^2/NDF : 674989.6/15

Left Out: 1730.168+/-0.851 χ^2/NDF : 29.7/2

Right Out: 1898.603+/-0.506 χ^2/NDF : 269109.9/17

Left In: 1730.333+/-0.930 χ^2/NDF : 20.8/1

Left: 1730.243+/-0.628 χ^2/NDF : 50.6/4

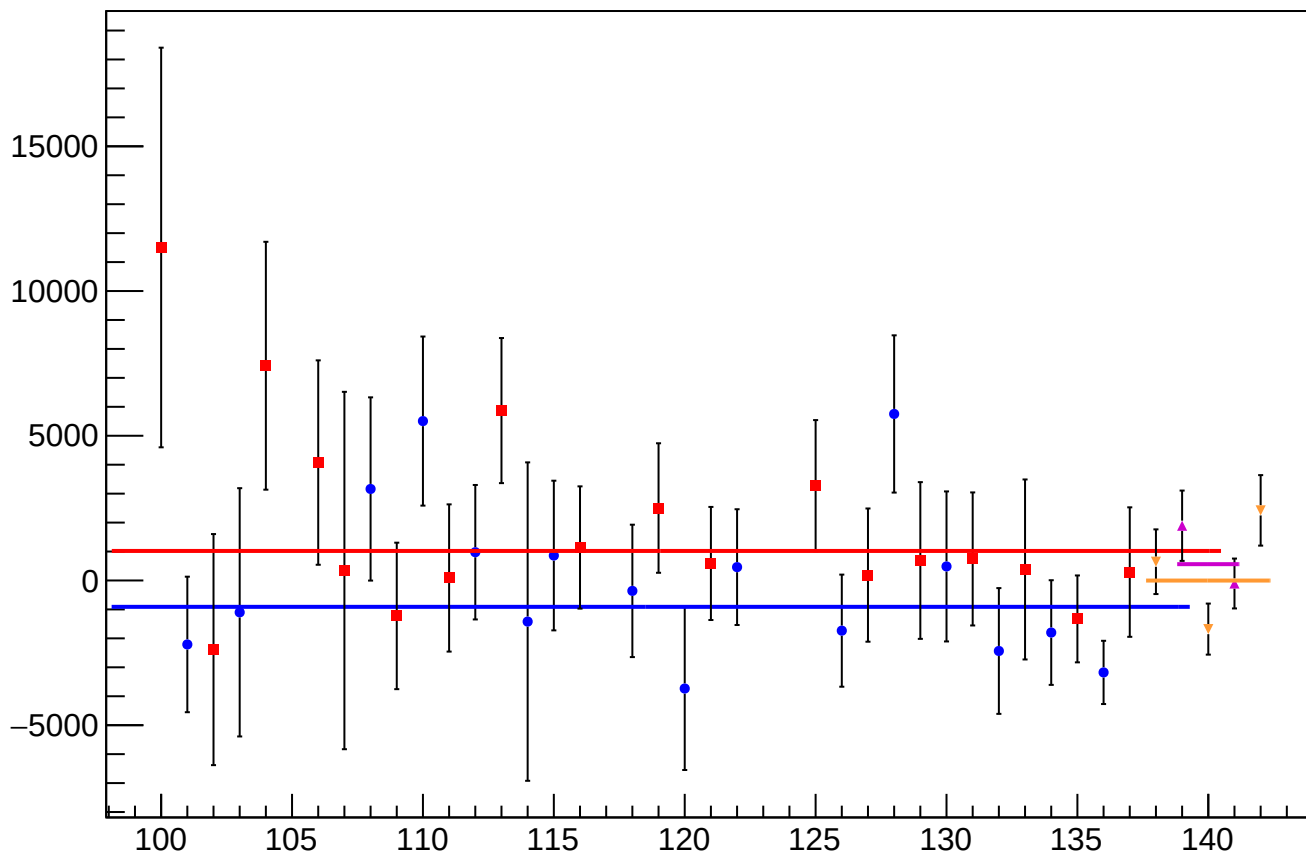
Right: 1881.894+/-0.356 χ^2/NDF : 946264.6/33

In: 1834.941+/-0.442 χ^2/NDF : 691360.3/17

Out: 1854.659+/-0.435 χ^2/NDF : 298060.5/20

All: 1844.953+/-0.310 χ^2/NDF : 990432.5/38

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -910.950 ± 550.835 $\chi^2/\text{NDF}: 21.0/15$

Left Out: -2.797 ± 601.933 $\chi^2/\text{NDF}: 7.9/2$

Right Out: 1020.123 ± 591.599 $\chi^2/\text{NDF}: 14.9/17$

Left In: 563.487 ± 702.841 $\chi^2/\text{NDF}: 1.8/1$

Left: 236.810 ± 457.183 $\chi^2/\text{NDF}: 10.1/4$

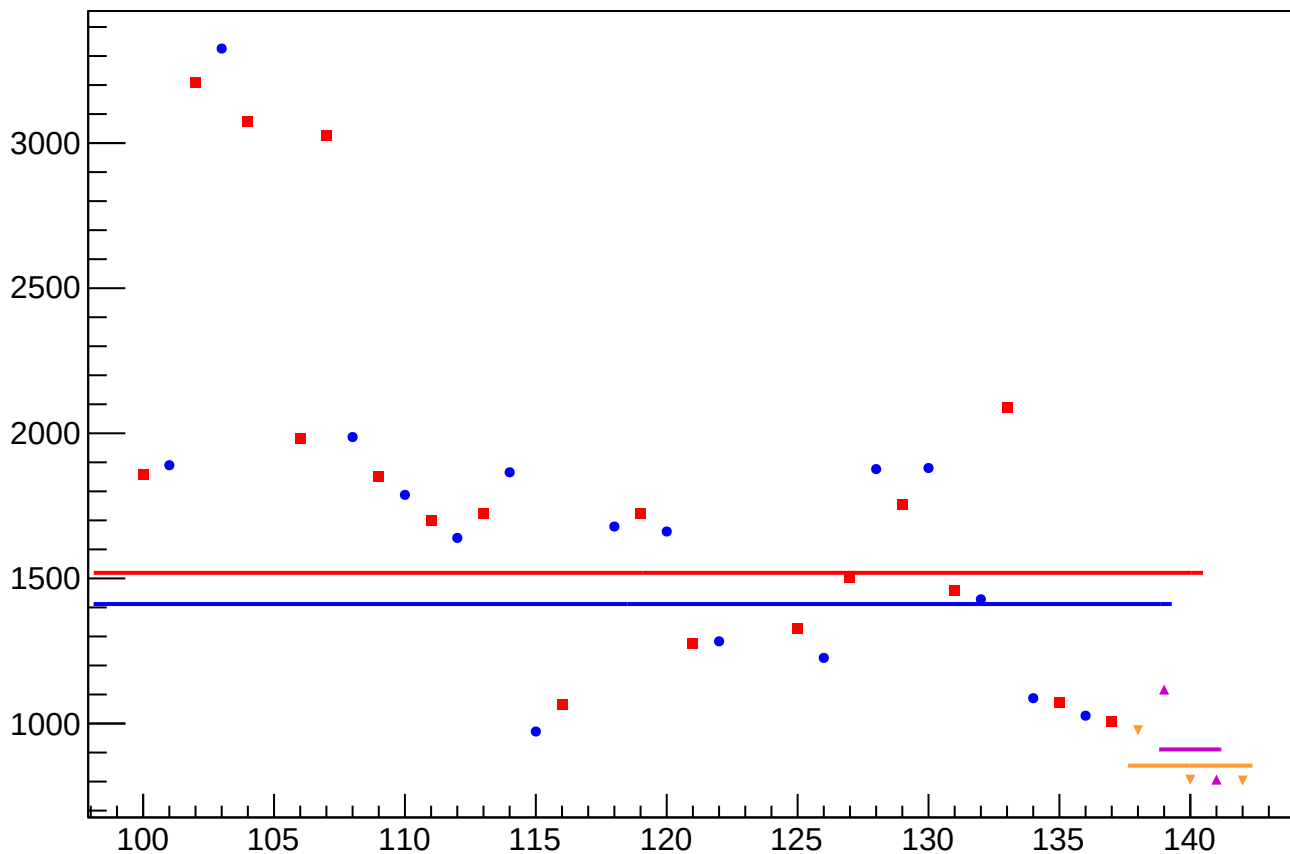
Right: -14.230 ± 403.141 $\chi^2/\text{NDF}: 41.6/33$

In: -349.915 ± 433.550 $\chi^2/\text{NDF}: 25.5/17$

Out: 517.519 ± 421.930 $\chi^2/\text{NDF}: 24.3/20$

All: 95.582 ± 302.374 $\chi^2/\text{NDF}: 51.9/38$

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1411.745+/-0.389 χ^2/NDF : 1177746.1/15

Left Out: 854.902+/-0.426 χ^2/NDF : 33427.2/2

Right Out: 1519.302+/-0.418 χ^2/NDF : 1360150.0/17

Left In: 910.752+/-0.497 χ^2/NDF : 86693.3/1

Left: 878.533+/-0.323 χ^2/NDF : 127405.9/4

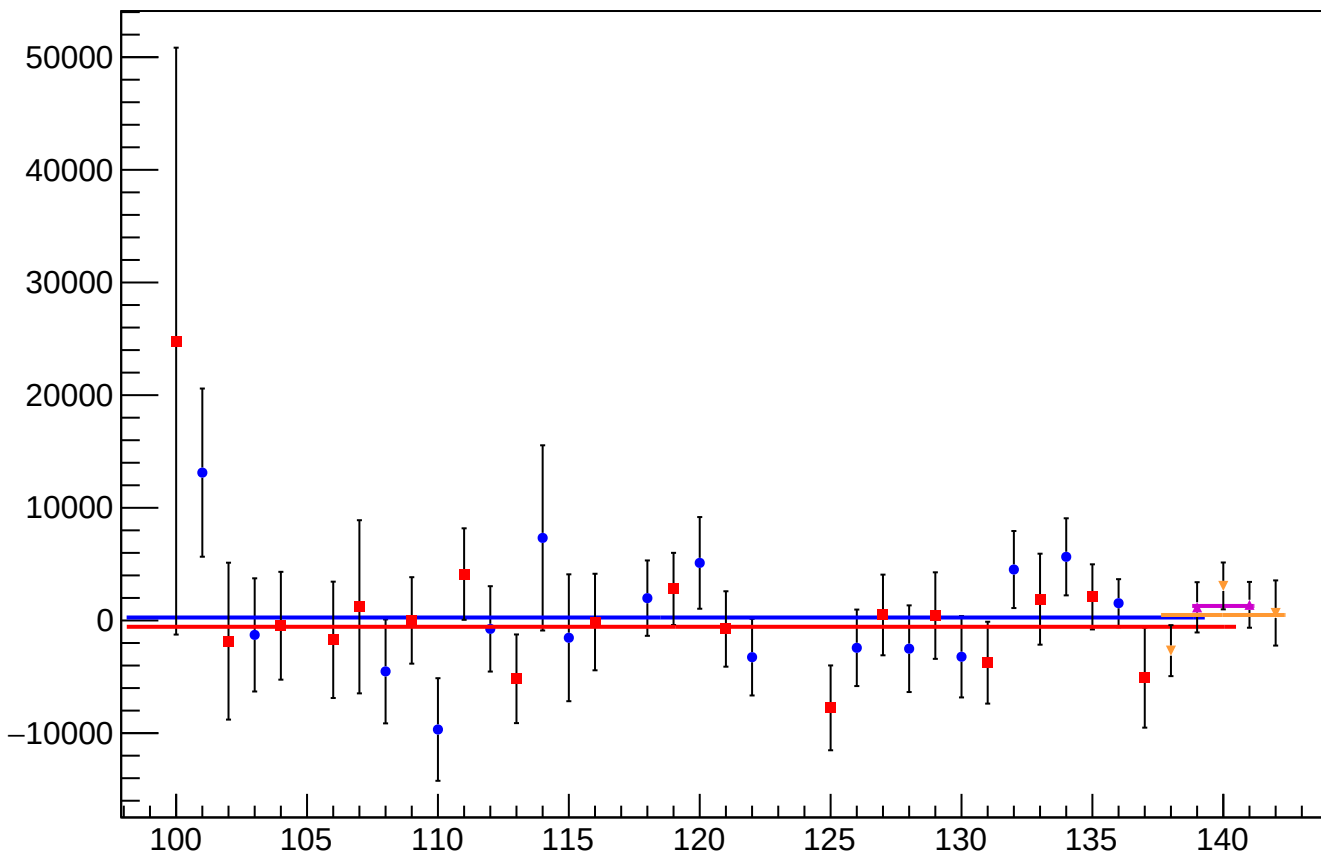
Right: 1461.691+/-0.285 χ^2/NDF : 2573306.2/33

In: 1221.113+/-0.307 χ^2/NDF : 1893964.8/17

Out: 1192.854+/-0.298 χ^2/NDF : 2633000.9/20

All: 1206.600+/-0.214 χ^2/NDF : 4531329.6/38

asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 264.383+/-941.979 χ^2/NDF : 19.0/15

Left Out: 486.863+/-1353.238 χ^2/NDF : 3.5/2

Right Out: -560.962+/-962.943 χ^2/NDF : 11.7/17

Left In: 1288.806+/-1502.780 χ^2/NDF : 0.0/1

Left: 845.959+/-1005.609 χ^2/NDF : 3.7/4

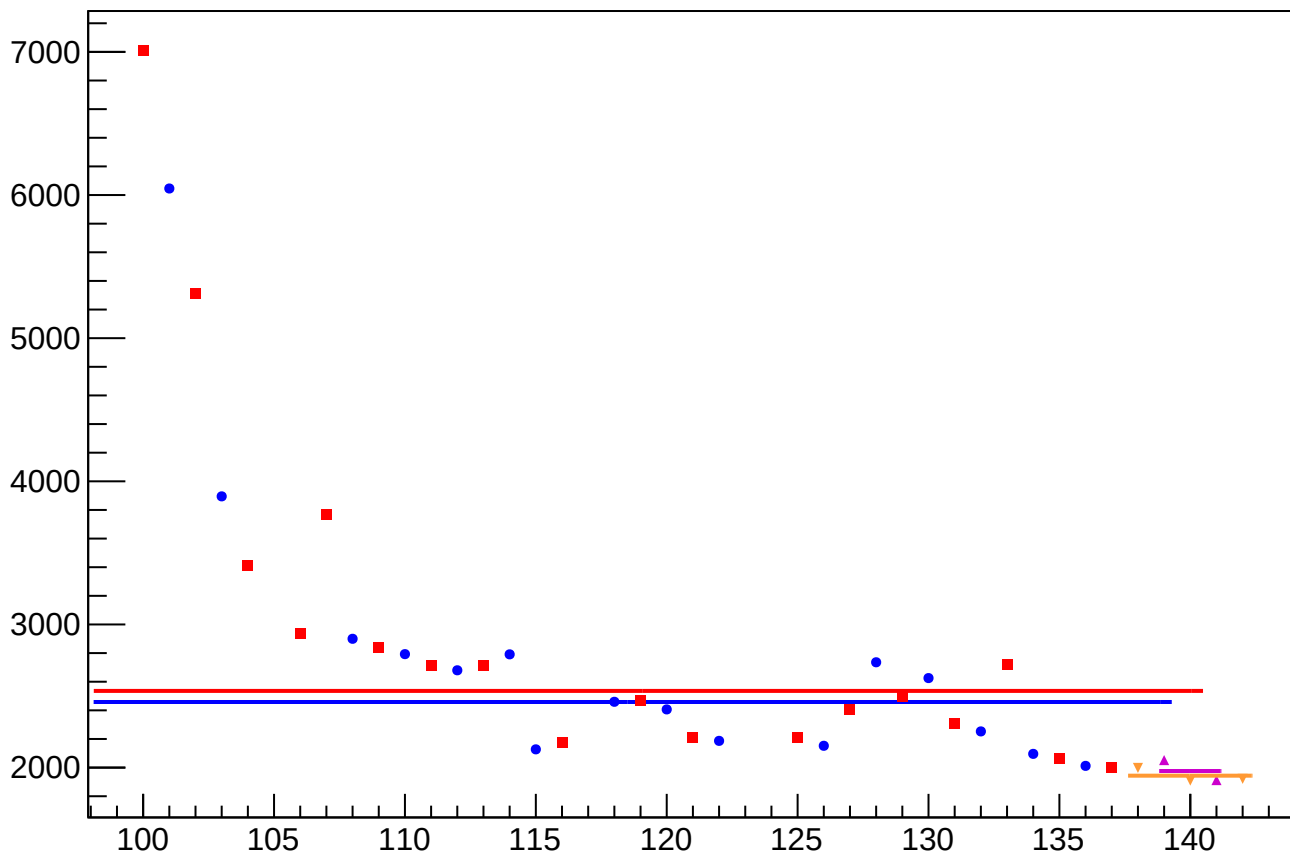
Right: -139.208+/-673.369 χ^2/NDF : 31.2/33

In: 553.350+/-798.142 χ^2/NDF : 19.4/17

Out: -208.741+/-784.580 χ^2/NDF : 15.6/20

All: 165.775+/-559.515 χ^2/NDF : 35.5/38

asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 2458.332+/-0.666 χ^2/NDF : 832888.7/15

Left Out: 1943.604+/-0.957 χ^2/NDF : 1811.4/2

Right Out: 2535.782+/-0.681 χ^2/NDF : 673337.1/17

Left In: 1976.203+/-1.063 χ^2/NDF : 4286.6/1

Left: 1958.201+/-0.711 χ^2/NDF : 6617.7/4

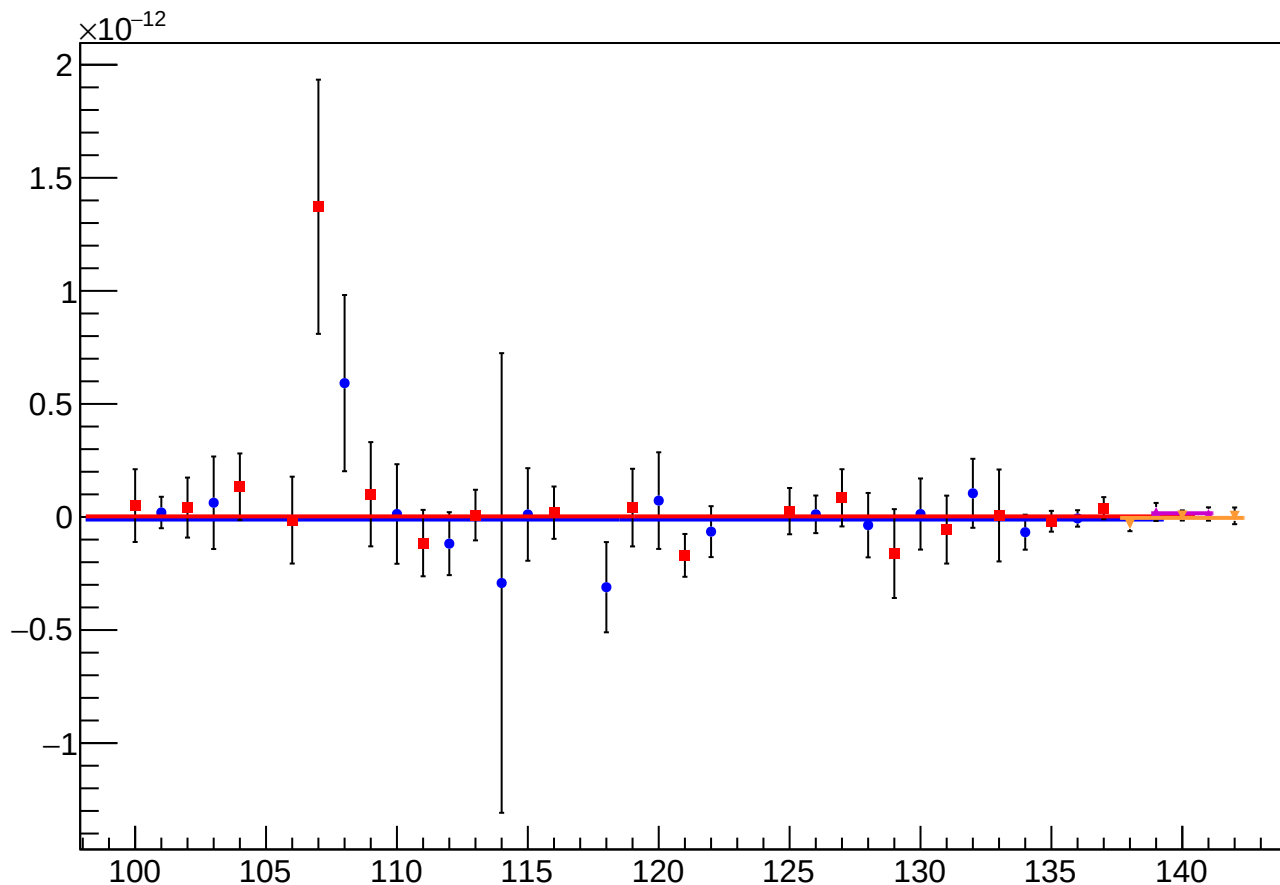
Right: 2496.205+/-0.476 χ^2/NDF : 1512837.3/33

In: 2322.334+/-0.564 χ^2/NDF : 984964.4/17

Out: 2336.726+/-0.555 χ^2/NDF : 929398.2/20

All: 2329.653+/-0.396 χ^2/NDF : 1914693.4/38

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 7.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 13.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 1.6/4

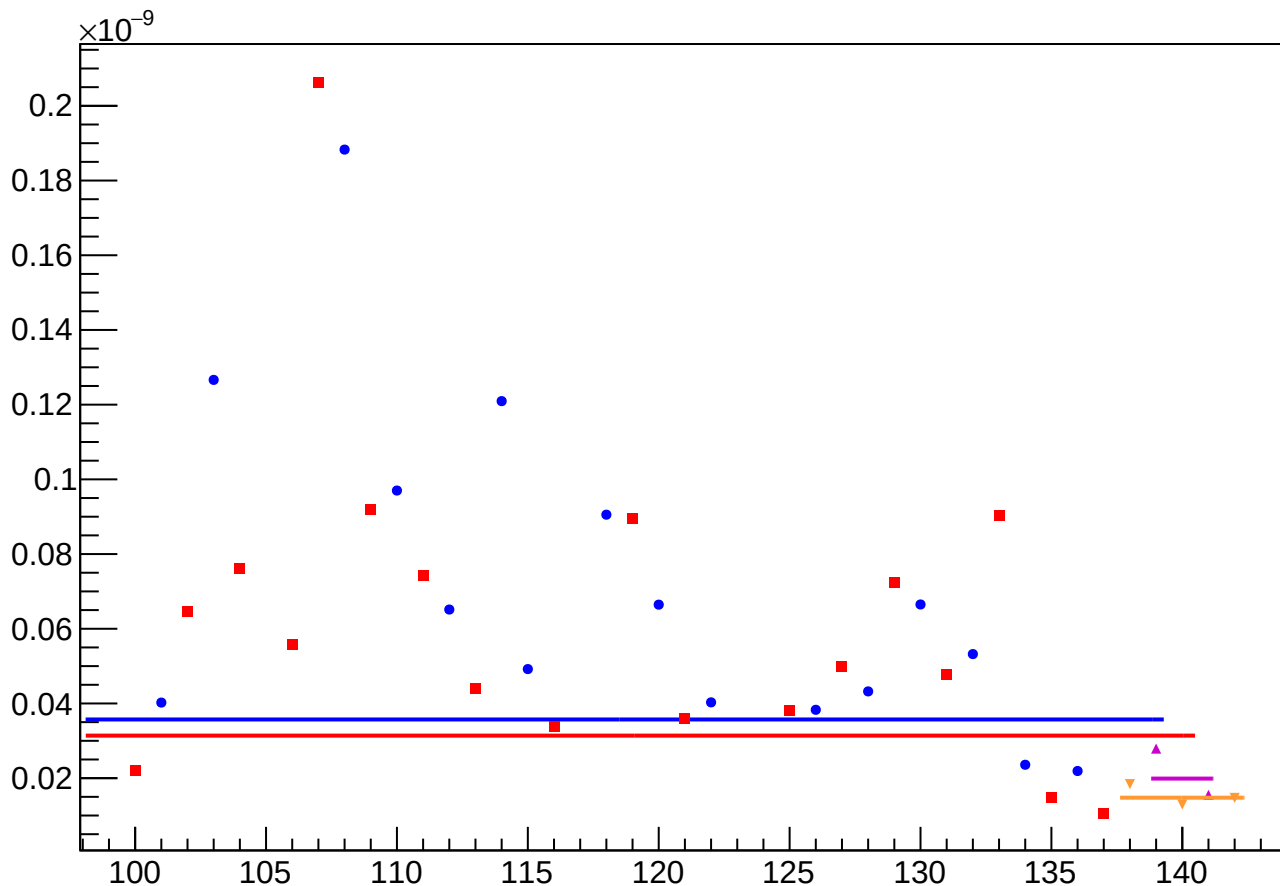
Right: -0.000+/-0.000 χ^2/NDF : 20.7/33

In: 0.000+/-0.000 χ^2/NDF : 8.0/17

Out: -0.000+/-0.000 χ^2/NDF : 14.3/20

All: -0.000+/-0.000 χ^2/NDF : 22.4/38

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1620217.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 40274.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2068272.1/17

Left In: 0.000+/-0.000 χ^2/NDF : 124416.1/1

Left: 0.000+/-0.000 χ^2/NDF : 227661.0/4

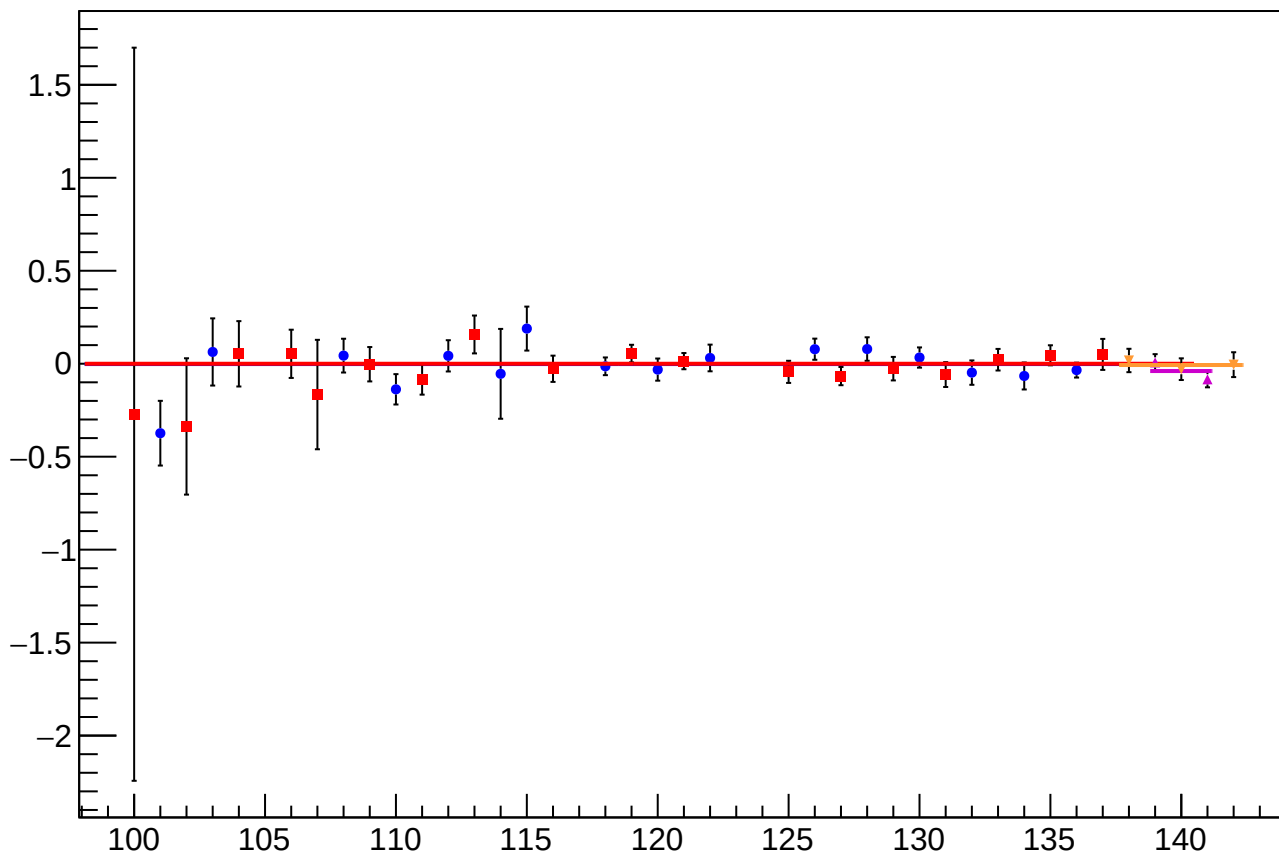
Right: 0.000+/-0.000 χ^2/NDF : 3719751.0/33

In: 0.000+/-0.000 χ^2/NDF : 2175215.2/17

Out: 0.000+/-0.000 χ^2/NDF : 2749345.2/20

All: 0.000+/-0.000 χ^2/NDF : 5167016.3/38

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.017 $\chi^2/\text{NDF}: 17.1/15$

Left Out: -0.007 ± 0.036 $\chi^2/\text{NDF}: 0.3/2$

Right Out: -0.000 ± 0.017 $\chi^2/\text{NDF}: 10.9/17$

Left In: -0.039 ± 0.031 $\chi^2/\text{NDF}: 2.1/1$

Left: -0.026 ± 0.024 $\chi^2/\text{NDF}: 2.9/4$

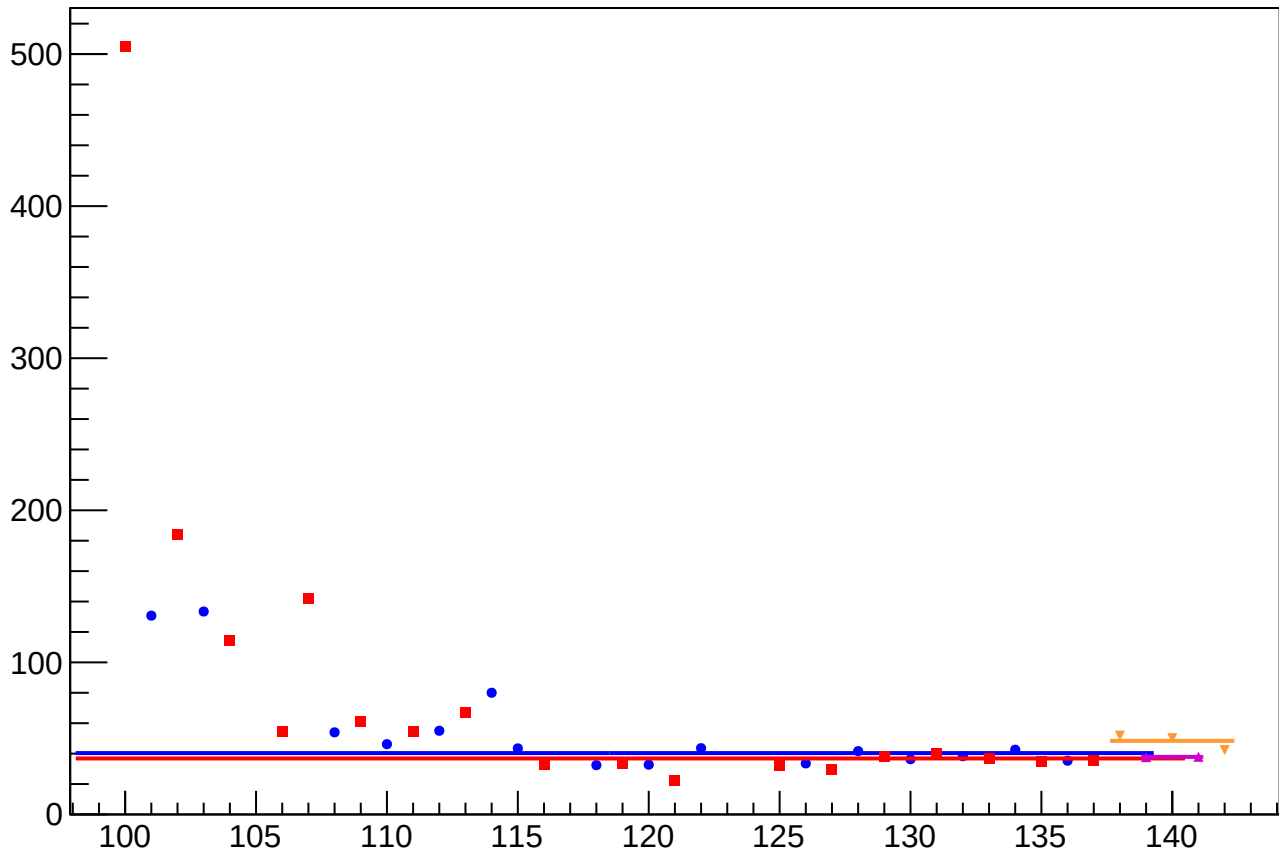
Right: -0.001 ± 0.012 $\chi^2/\text{NDF}: 28.0/33$

In: -0.011 ± 0.015 $\chi^2/\text{NDF}: 20.4/17$

Out: -0.001 ± 0.015 $\chi^2/\text{NDF}: 11.2/20$

All: -0.006 ± 0.011 $\chi^2/\text{NDF}: 31.8/38$

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 40.352 $\pm$ 0.012 χ^2 /NDF: 1410137.1/15

Left Out: 48.403 $\pm$ 0.025 χ^2 /NDF:24255.6/2

Right Out: 36.825 $\pm$ 0.012 χ^2 /NDF: 1837124.6/17

Left In: 37.845 $\pm$ 0.022 χ^2 /NDF:31.7/1

Left: 42.343 $\pm$ 0.017 χ^2 /NDF: 122986.2/4

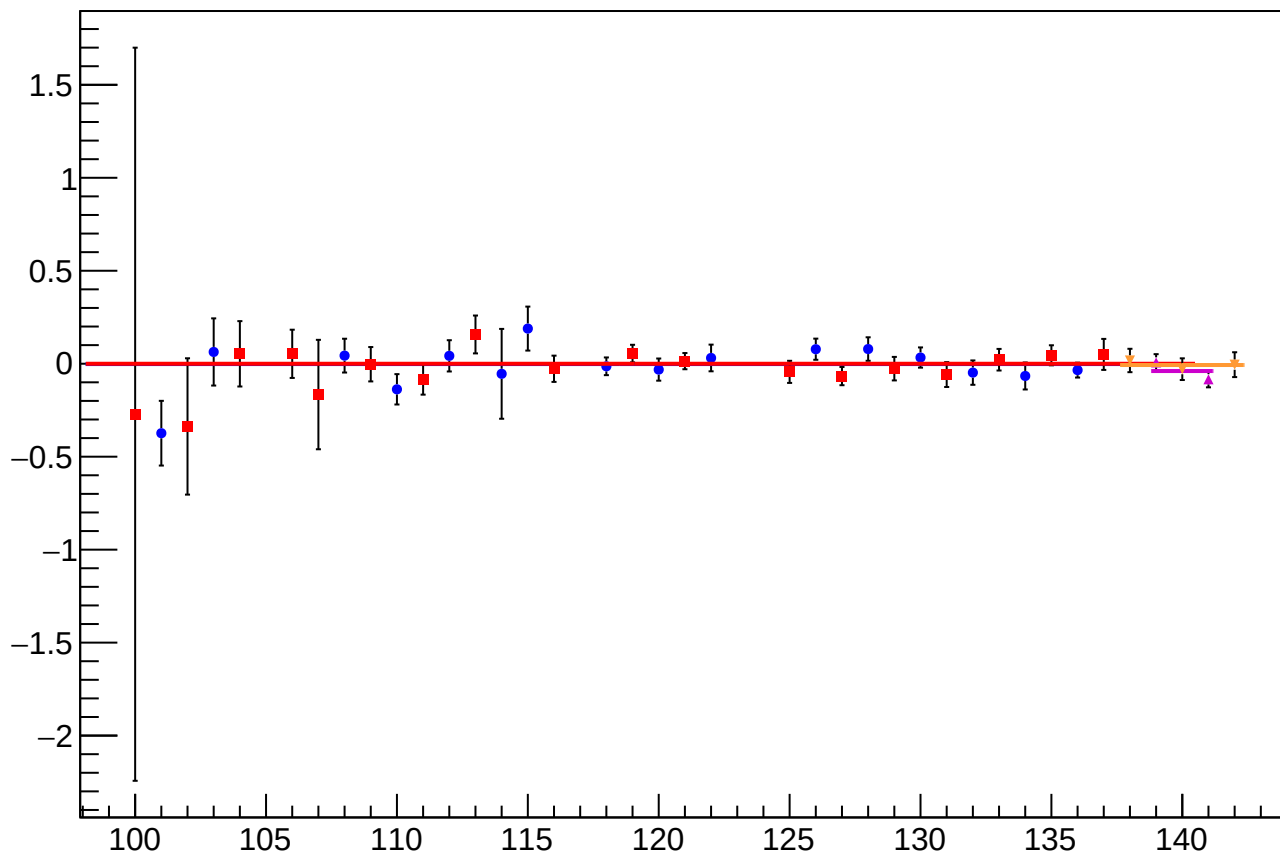
Right: 38.545 $\pm$ 0.008 χ^2 /NDF: 3290942.4/33

In: 39.768 $\pm$ 0.011 χ^2 /NDF:1420190.3/17

Out: 38.867 $\pm$ 0.011 χ^2 /NDF:2031683.5/20

All: 39.323 $\pm$ 0.008 χ^2 /NDF: 3455460.8/38

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.017 $\chi^2/\text{NDF}: 17.1/15$

Left Out: -0.007 ± 0.036 $\chi^2/\text{NDF}: 0.3/2$

Right Out: -0.000 ± 0.017 $\chi^2/\text{NDF}: 10.9/17$

Left In: -0.039 ± 0.031 $\chi^2/\text{NDF}: 2.1/1$

Left: -0.026 ± 0.024 $\chi^2/\text{NDF}: 2.9/4$

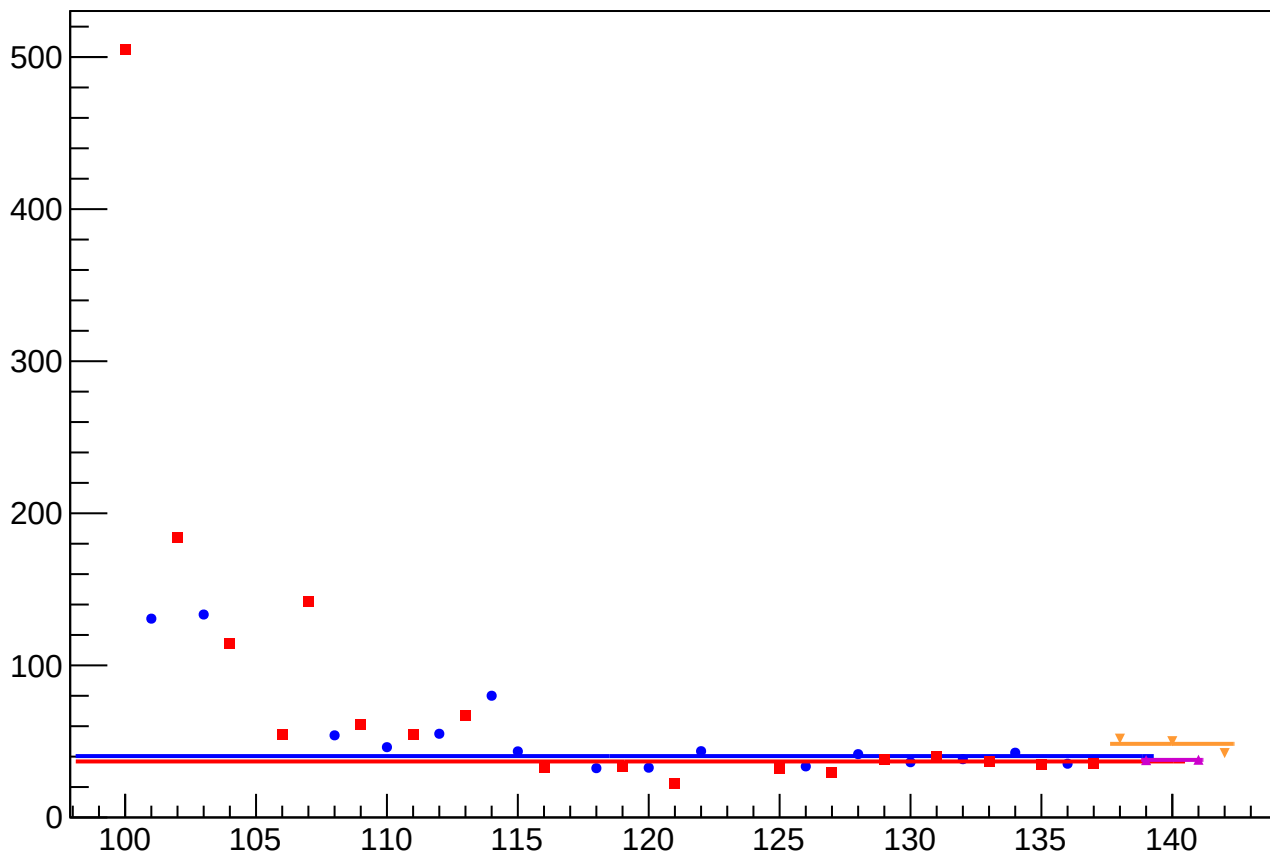
Right: -0.001 ± 0.012 $\chi^2/\text{NDF}: 28.0/33$

In: -0.011 ± 0.015 $\chi^2/\text{NDF}: 20.4/17$

Out: -0.001 ± 0.015 $\chi^2/\text{NDF}: 11.2/20$

All: -0.006 ± 0.011 $\chi^2/\text{NDF}: 31.8/38$

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 40.352+/-0.012 χ^2/NDF : 1410137.1/15

Left Out: 48.403+/-0.025 χ^2/NDF :24255.6/2

Right Out: 36.825+/-0.012 χ^2/NDF : 1837124.6/17

Left In: 37.845+/-0.022 χ^2/NDF :31.7/1

Left: 42.343+/-0.017 χ^2/NDF : 122986.2/4

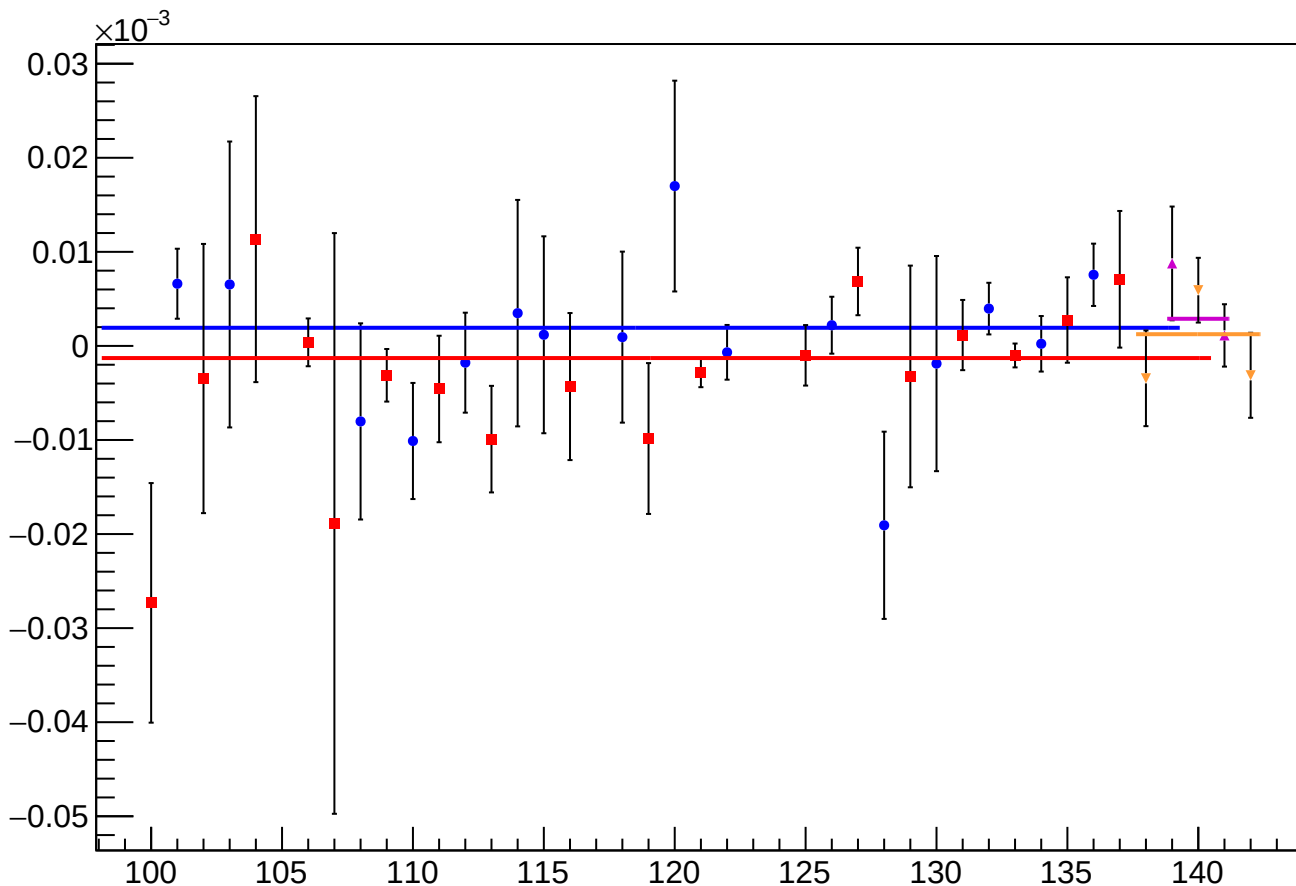
Right: 38.545+/-0.008 χ^2/NDF : 3290942.4/33

In: 39.768+/-0.011 χ^2/NDF :1420190.3/17

Out: 38.867+/-0.011 χ^2/NDF :2031683.5/20

All: 39.323+/-0.008 χ^2/NDF : 3455460.8/38

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3.6/2

Right Out: -0.000+/-0.000 χ^2/NDF : 18.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 1.2/1

Left: 0.000+/-0.000 χ^2/NDF : 5.1/4

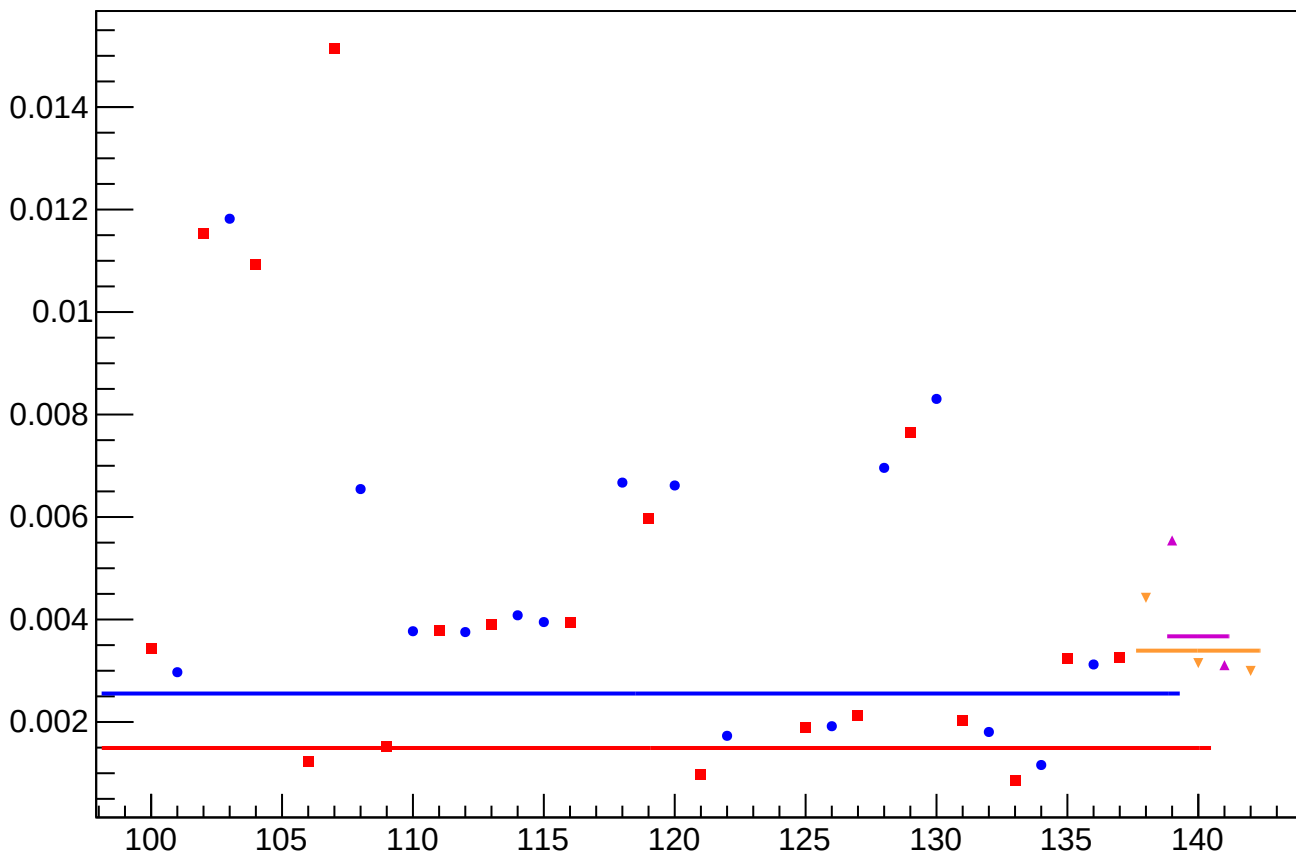
Right: -0.000+/-0.000 χ^2/NDF : 42.3/33

In: 0.000+/-0.000 χ^2/NDF : 19.2/17

Out: -0.000+/-0.000 χ^2/NDF : 23.5/20

All: -0.000+/-0.000 χ^2/NDF : 48.6/38

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3782362.0/15

Left Out: 0.003+/-0.000 χ^2/NDF :107472.5/2

Right Out: 0.001+/-0.000 χ^2/NDF : 5561830.1/17

Left In: 0.004+/-0.000 χ^2/NDF :249101.4/1

Left: 0.004+/-0.000 χ^2/NDF : 367538.1/4

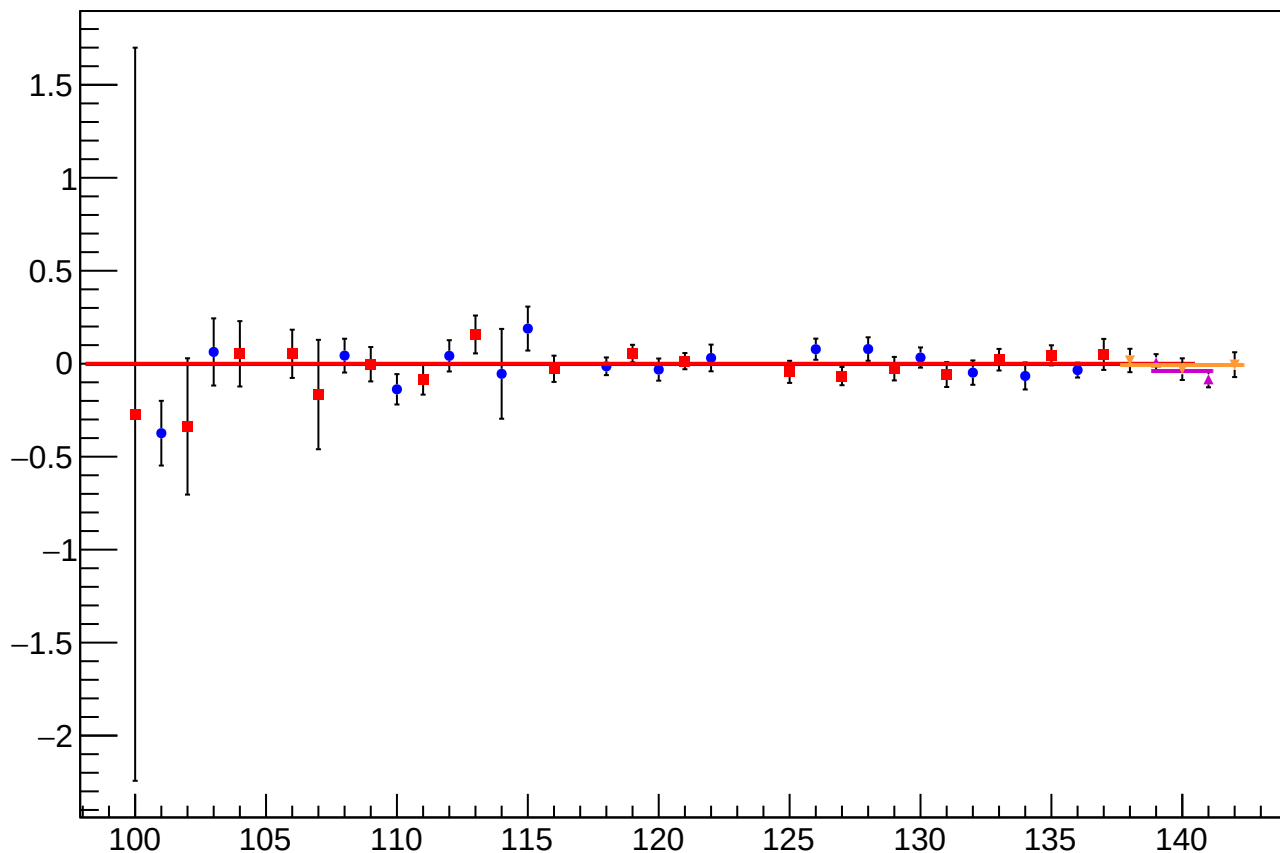
Right: 0.002+/-0.000 χ^2/NDF : 10553457.3/33

In: 0.003+/-0.000 χ^2/NDF :4287062.3/17

Out: 0.002+/-0.000 χ^2/NDF :6800823.4/20

All: 0.002+/-0.000 χ^2/NDF : 12413126.3/38

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.017 $\chi^2/\text{NDF}: 17.1/15$

Left Out: -0.007 ± 0.036 $\chi^2/\text{NDF}: 0.3/2$

Right Out: -0.000 ± 0.017 $\chi^2/\text{NDF}: 10.9/17$

Left In: -0.039 ± 0.031 $\chi^2/\text{NDF}: 2.1/1$

Left: -0.026 ± 0.024 $\chi^2/\text{NDF}: 2.9/4$

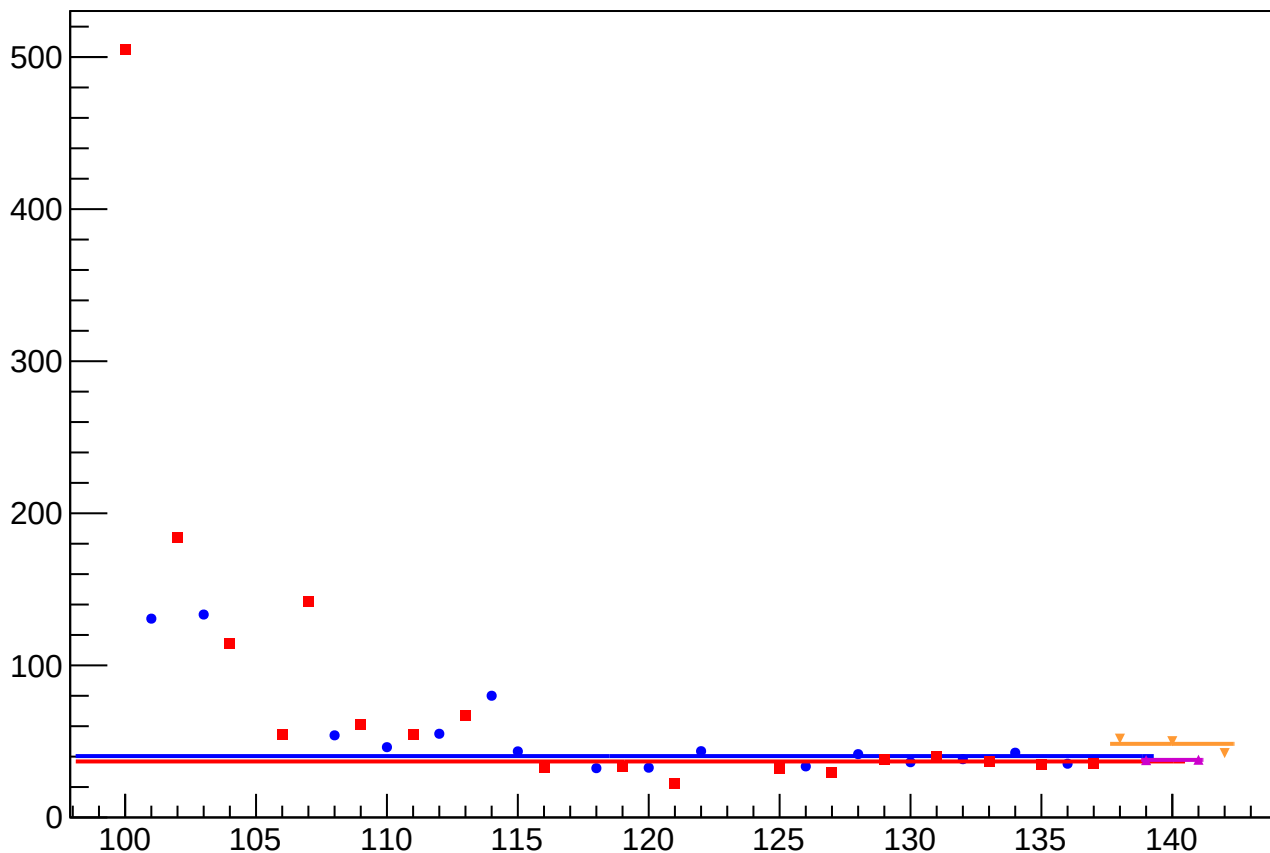
Right: -0.001 ± 0.012 $\chi^2/\text{NDF}: 28.0/33$

In: -0.011 ± 0.015 $\chi^2/\text{NDF}: 20.4/17$

Out: -0.001 ± 0.015 $\chi^2/\text{NDF}: 11.2/20$

All: -0.006 ± 0.011 $\chi^2/\text{NDF}: 31.8/38$

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 40.352+/-0.012 χ^2/NDF : 1410036.7/15

Left Out: 48.403+/-0.025 χ^2/NDF :24259.1/2

Right Out: 36.824+/-0.012 χ^2/NDF : 1837118.8/17

Left In: 37.845+/-0.022 χ^2/NDF :31.3/1

Left: 42.343+/-0.017 χ^2/NDF : 122985.8/4

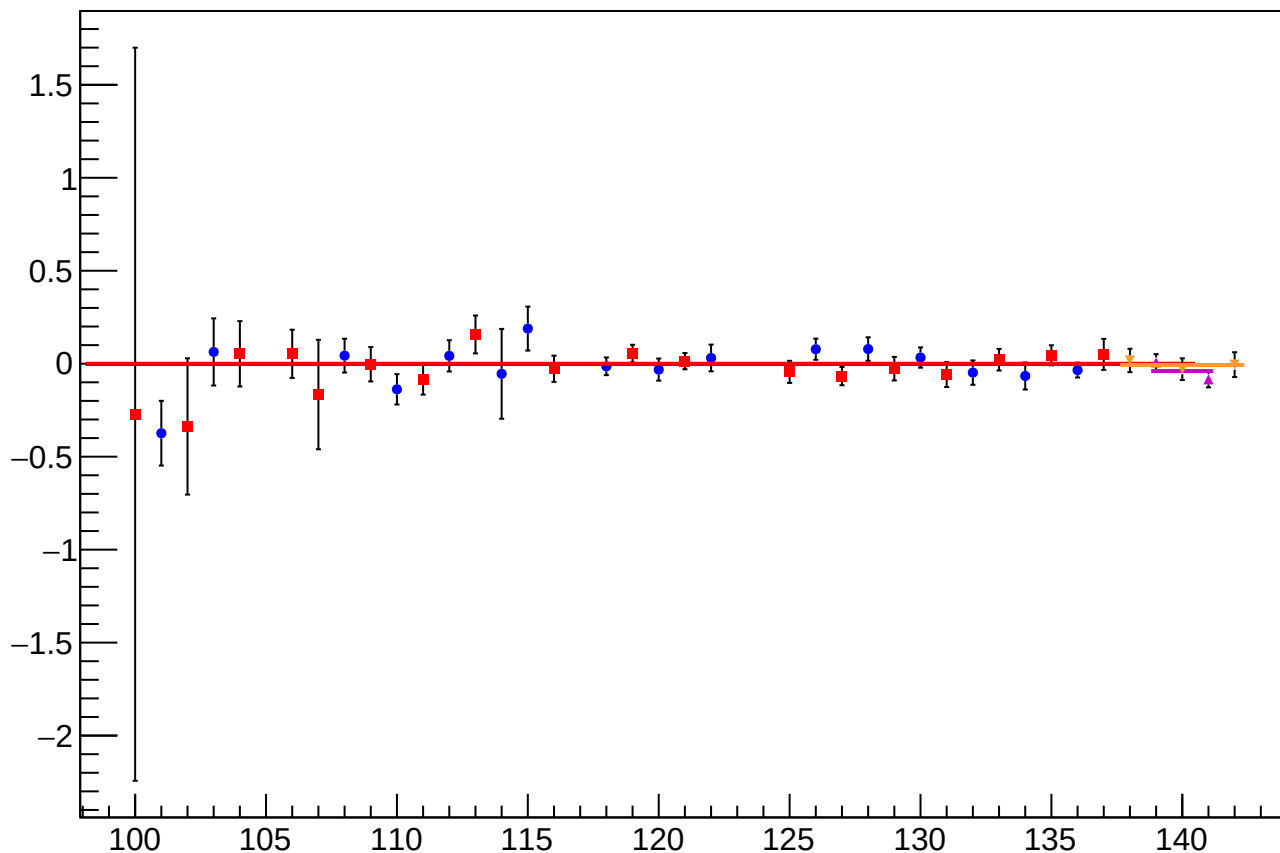
Right: 38.545+/-0.008 χ^2/NDF : 3290871.7/33

In: 39.769+/-0.011 χ^2/NDF :1420093.9/17

Out: 38.867+/-0.011 χ^2/NDF :2031702.4/20

All: 39.323+/-0.008 χ^2/NDF : 3455393.0/38

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.017 $\chi^2/\text{NDF}: 17.1/15$

Left Out: -0.007 ± 0.036 $\chi^2/\text{NDF}: 0.3/2$

Right Out: -0.000 ± 0.017 $\chi^2/\text{NDF}: 10.9/17$

Left In: -0.039 ± 0.031 $\chi^2/\text{NDF}: 2.1/1$

Left: -0.026 ± 0.024 $\chi^2/\text{NDF}: 2.9/4$

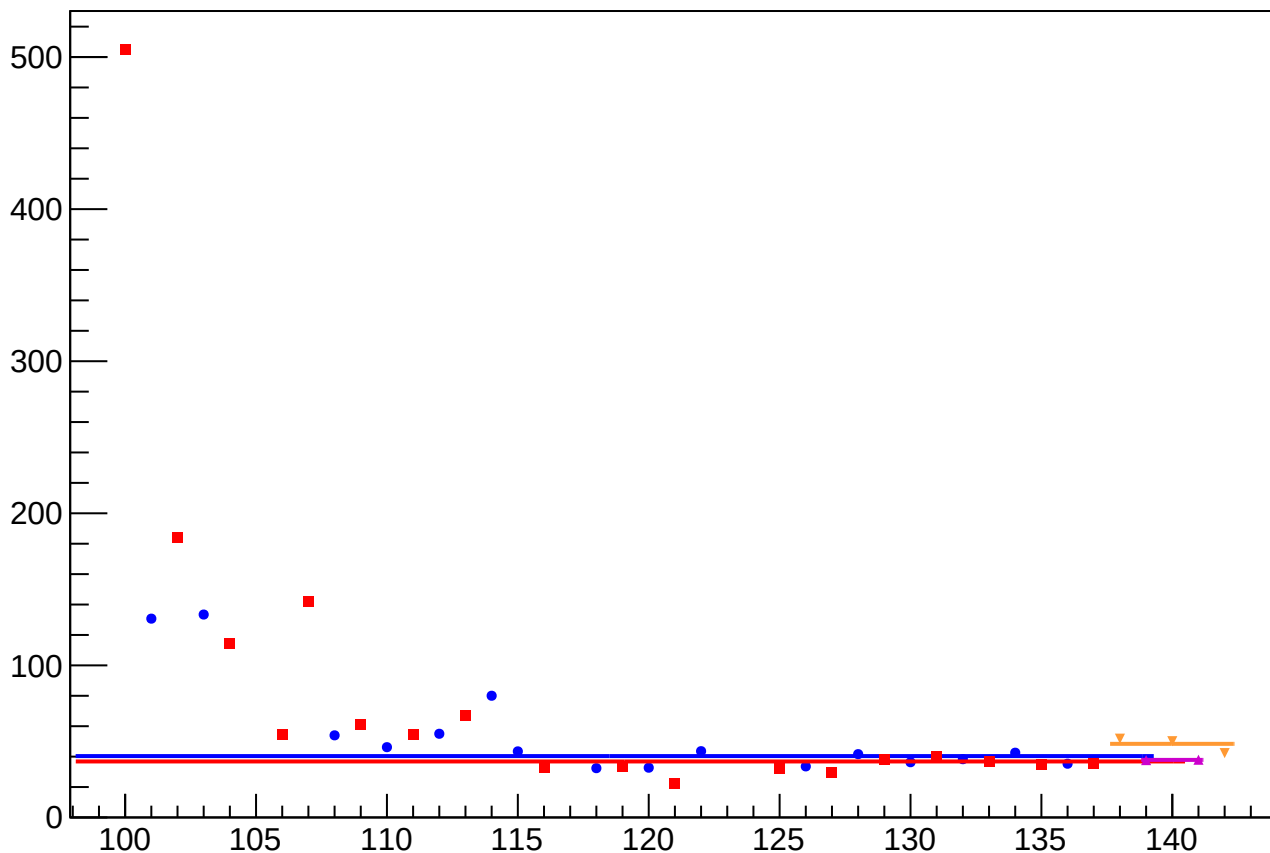
Right: -0.001 ± 0.012 $\chi^2/\text{NDF}: 28.0/33$

In: -0.011 ± 0.015 $\chi^2/\text{NDF}: 20.4/17$

Out: -0.001 ± 0.015 $\chi^2/\text{NDF}: 11.2/20$

All: -0.006 ± 0.011 $\chi^2/\text{NDF}: 31.8/38$

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 40.352 $\pm$ 0.012 χ^2 /NDF: 1410036.7/15

Left Out: 48.403 $\pm$ 0.025 χ^2 /NDF:24259.1/2

Right Out: 36.824 $\pm$ 0.012 χ^2 /NDF: 1837118.8/17

Left In: 37.845 $\pm$ 0.022 χ^2 /NDF:31.3/1

Left: 42.343 $\pm$ 0.017 χ^2 /NDF: 122985.8/4

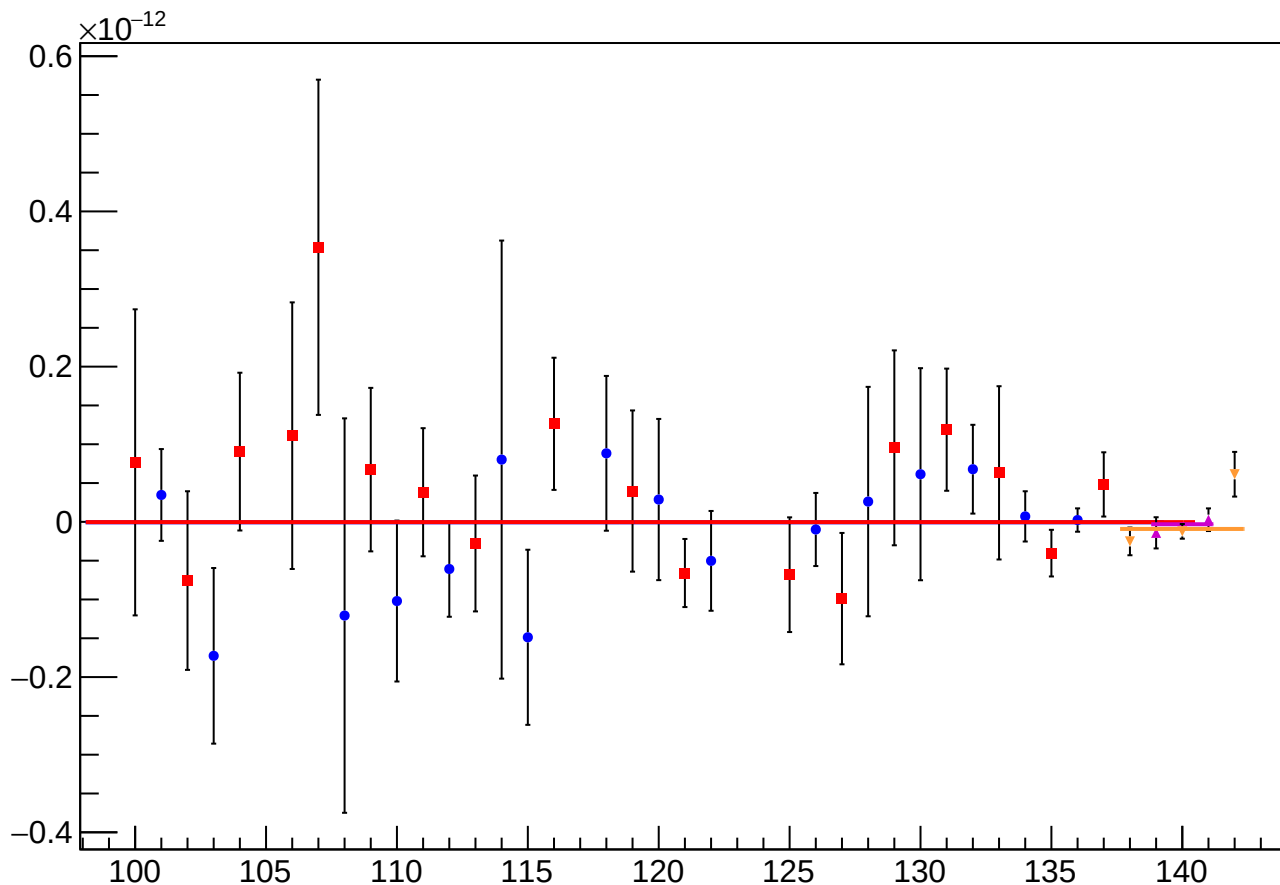
Right: 38.545 $\pm$ 0.008 χ^2 /NDF: 3290871.7/33

In: 39.769 $\pm$ 0.011 χ^2 /NDF:1420093.9/17

Out: 38.867 $\pm$ 0.011 χ^2 /NDF:2031702.4/20

All: 39.323 $\pm$ 0.008 χ^2 /NDF: 3455393.0/38

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 9.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 6.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 18.4/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.5/1

Left: -0.000+/-0.000 χ^2/NDF : 7.5/4

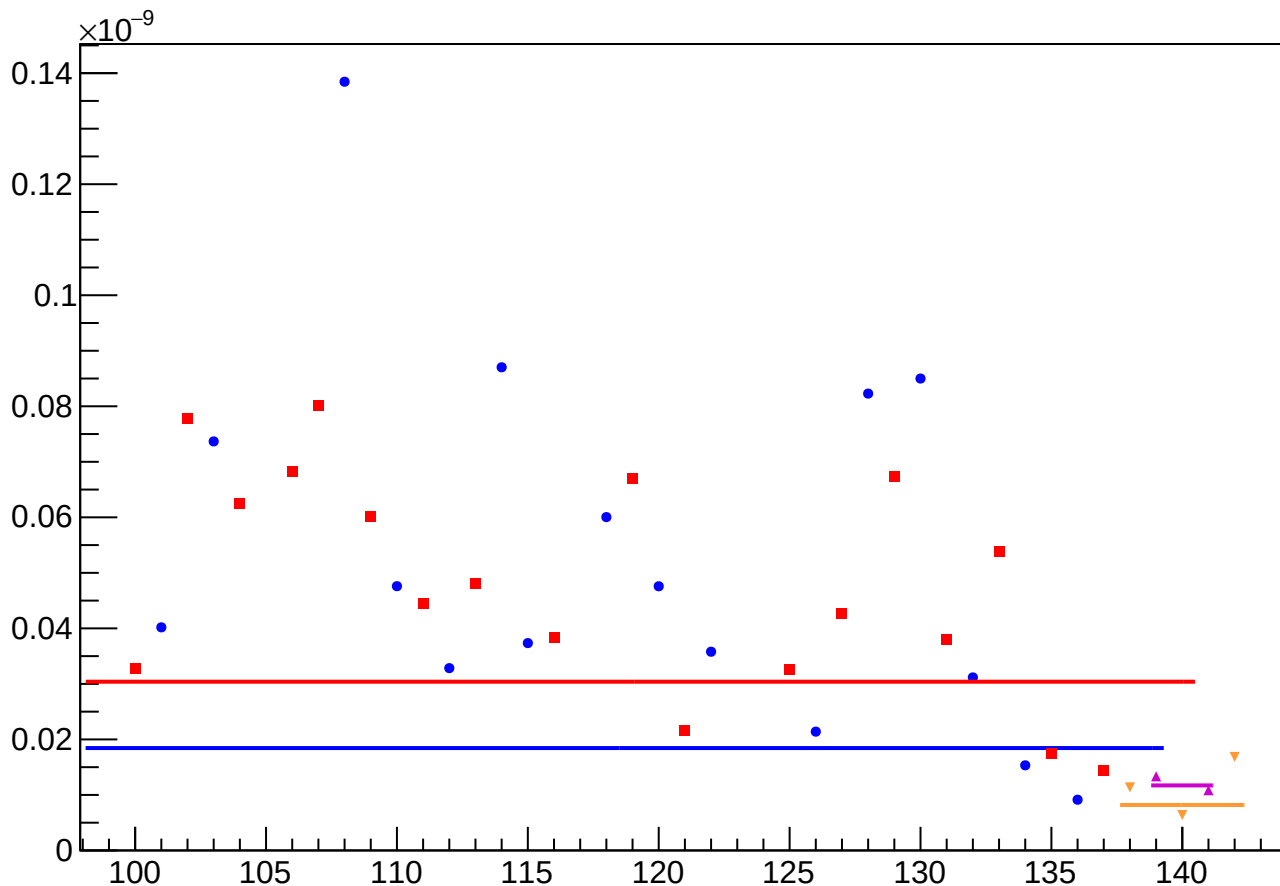
Right: -0.000+/-0.000 χ^2/NDF : 28.2/33

In: -0.000+/-0.000 χ^2/NDF : 10.4/17

Out: -0.000+/-0.000 χ^2/NDF : 25.5/20

All: -0.000+/-0.000 χ^2/NDF : 36.1/38

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4022915.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 317304.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2387224.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 20298.9/1

Left: 0.000+/-0.000 χ^2/NDF : 459167.2/4

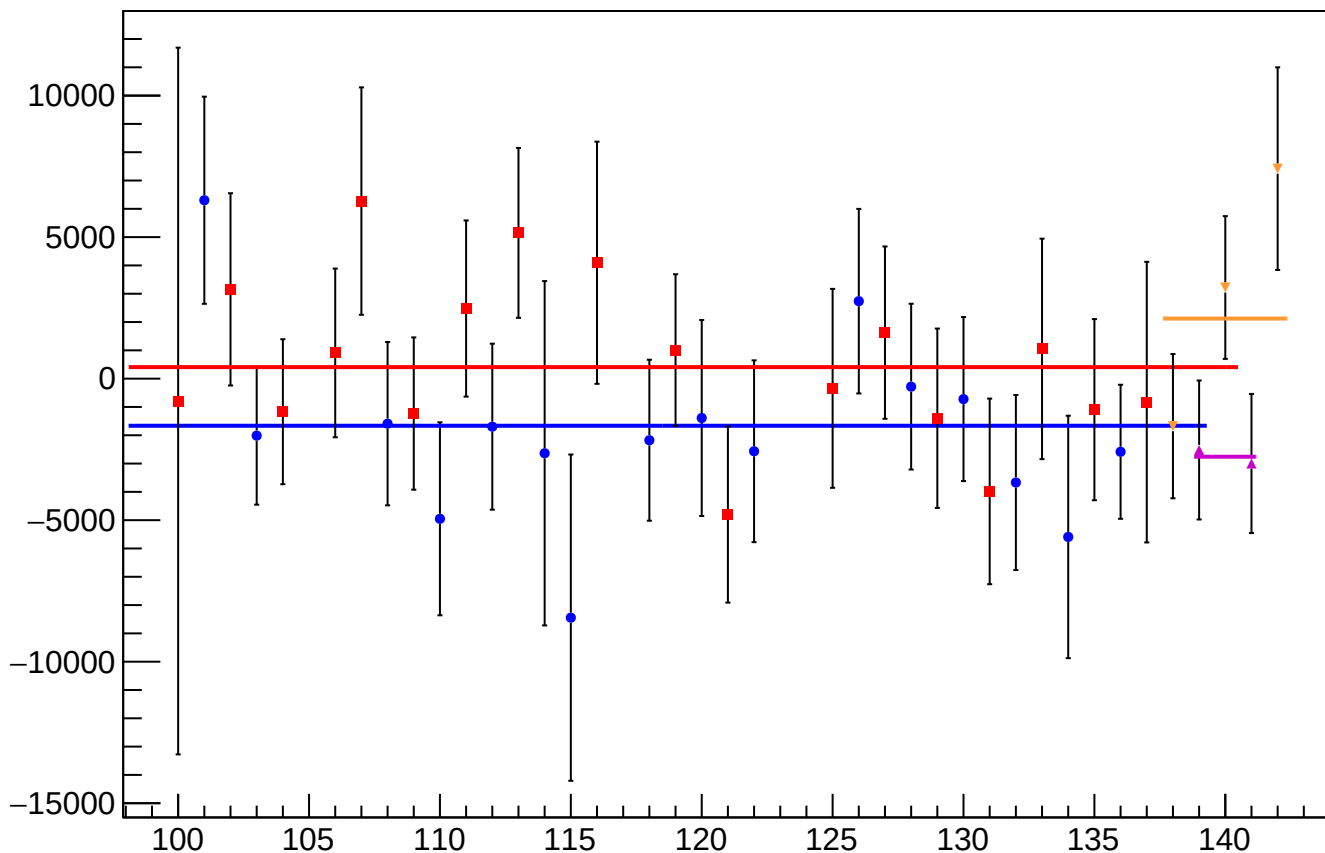
Right: 0.000+/-0.000 χ^2/NDF : 7115915.8/33

In: 0.000+/-0.000 χ^2/NDF : 4375014.5/17

Out: 0.000+/-0.000 χ^2/NDF : 5642406.2/20

All: 0.000+/-0.000 χ^2/NDF : 10137803.3/38

reg_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1664.305 $\pm$ 792.164 χ^2 /NDF: 10.8/15

Left Out: 2123.612 $\pm$ 1602.445 χ^2 /NDF:4.6/2

Right Out: 406.847 $\pm$ 777.158 χ^2 /NDF: 12.7/17

Left In: -2758.695 $\pm$ 1737.050 χ^2 /NDF:0.0/1

Left: -121.070 $\pm$ 1177.815 χ^2 /NDF: 8.9/4

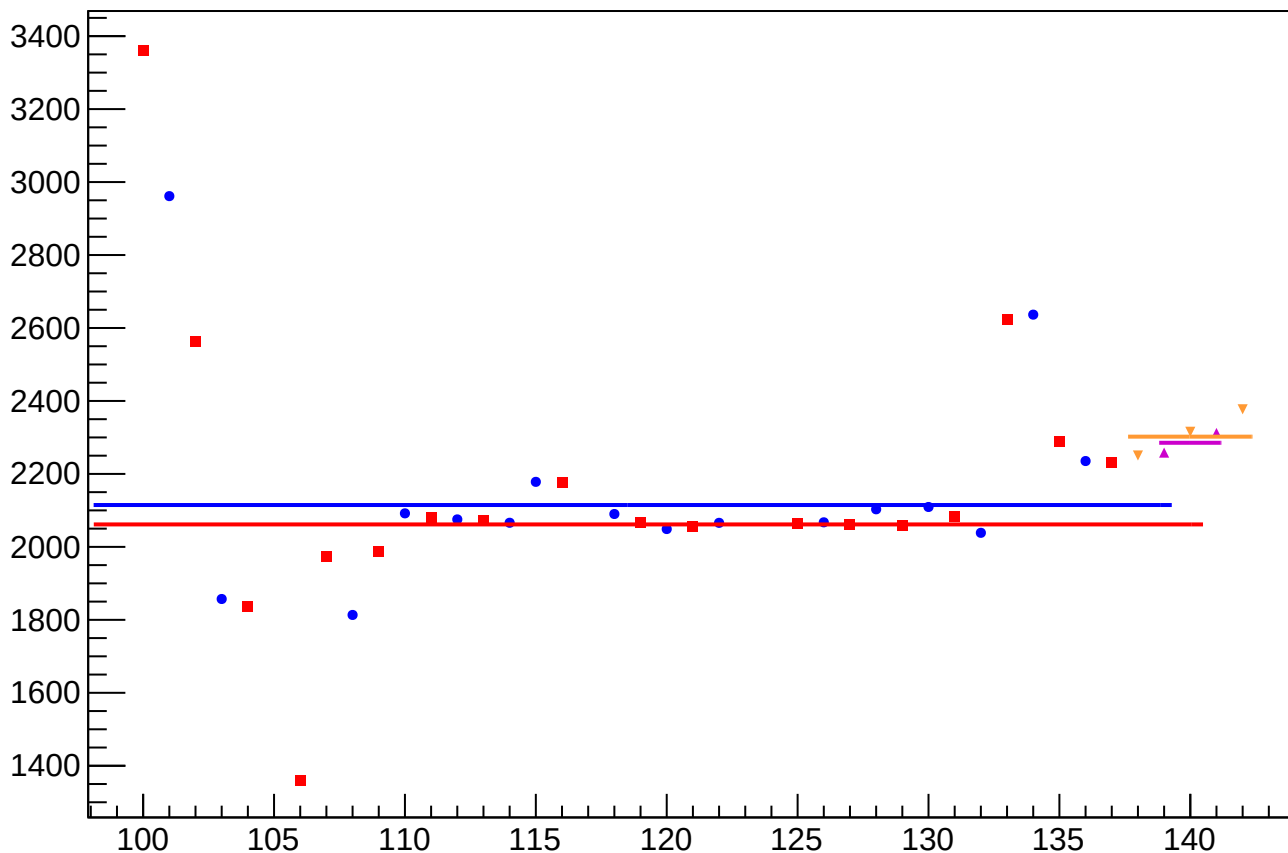
Right: -608.927 $\pm$ 554.763 χ^2 /NDF: 27.0/33

In: -1852.722 $\pm$ 720.753 χ^2 /NDF:11.1/17

Out: 733.753 $\pm$ 699.261 χ^2 /NDF:18.3/20

All: -520.347 $\pm$ 501.878 χ^2 /NDF: 36.0/38

reg_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2114.755+/-0.560 χ^2/NDF : 189920.6/15

Left Out: 2302.149+/-1.133 χ^2/NDF :1755.4/2

Right Out: 2061.560+/-0.550 χ^2/NDF : 249186.6/17

Left In: 2285.337+/-1.228 χ^2/NDF :481.5/1

Left: 2294.420+/-0.833 χ^2/NDF : 2338.1/4

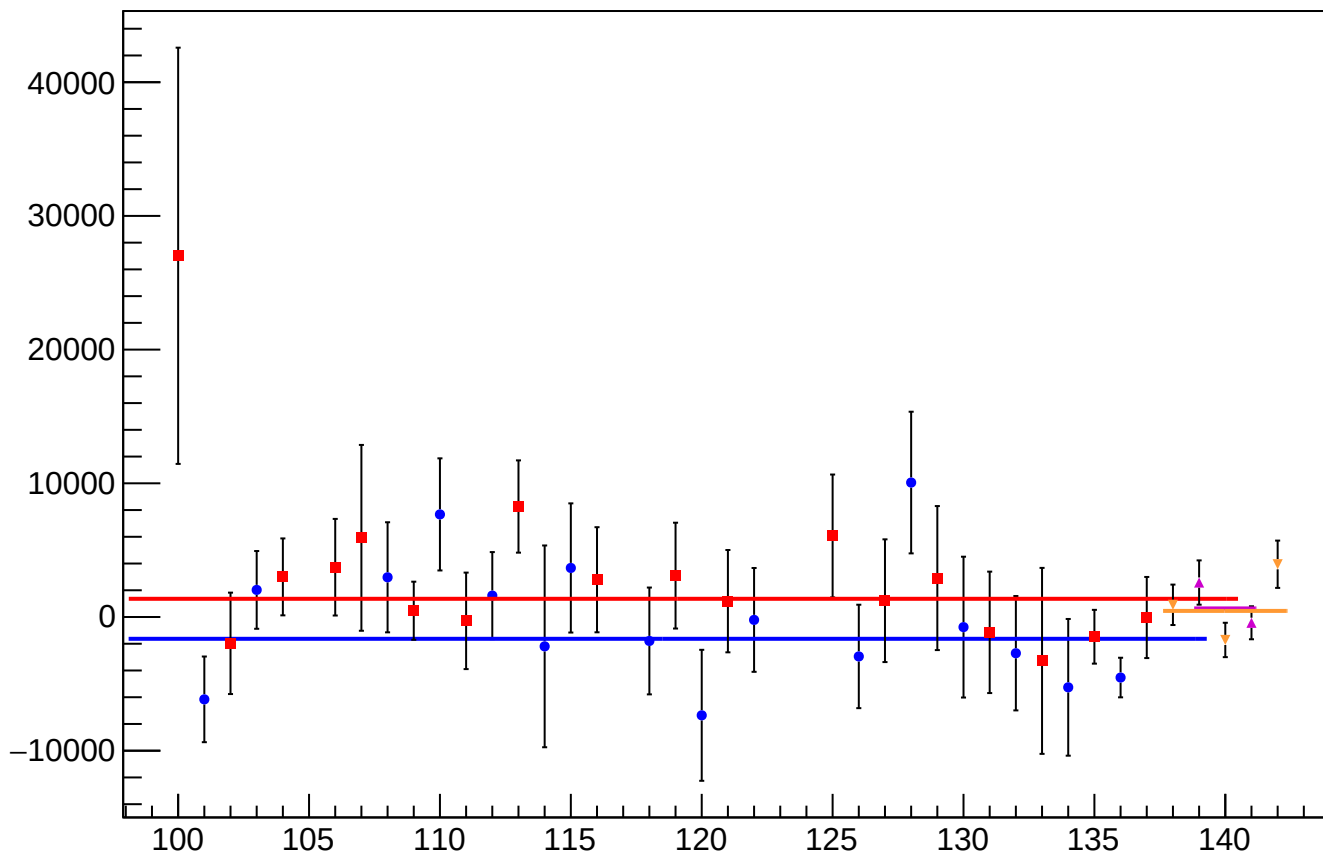
Right: 2087.649+/-0.392 χ^2/NDF : 443702.7/33

In: 2144.123+/-0.510 χ^2/NDF :206368.7/17

Out: 2107.373+/-0.494 χ^2/NDF :287440.6/20

All: 2125.192+/-0.355 χ^2/NDF : 496488.0/38

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1630.474 ± 862.417 $\chi^2/\text{NDF}: 22.9/15$

Left Out: 455.995 ± 856.711 $\chi^2/\text{NDF}: 6.8/2$

Right Out: 1361.841 ± 840.417 $\chi^2/\text{NDF}: 13.5/17$

Left In: 641.736 ± 989.131 $\chi^2/\text{NDF}: 2.1/1$

Left: 535.608 ± 647.581 $\chi^2/\text{NDF}: 9.0/4$

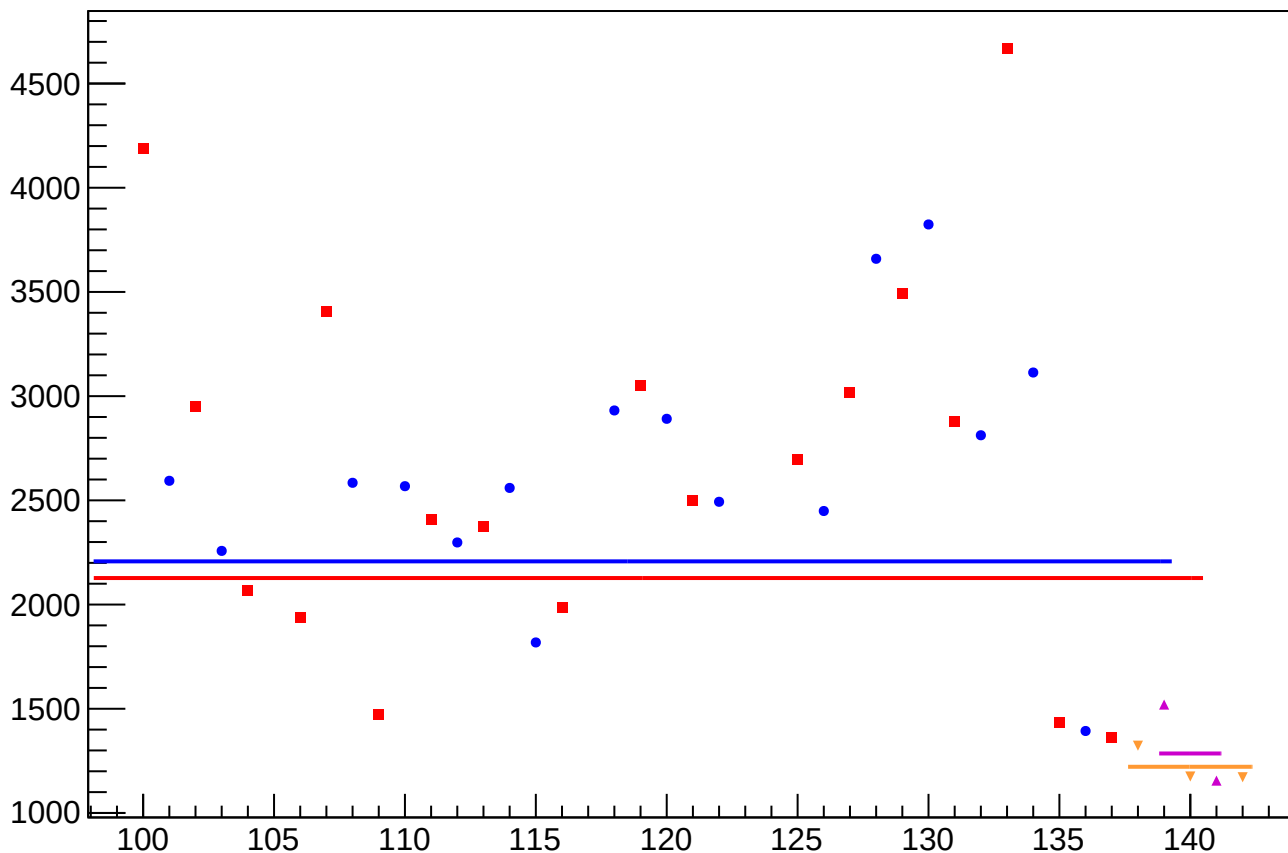
Right: -95.664 ± 601.892 $\chi^2/\text{NDF}: 42.5/33$

In: -649.147 ± 650.035 $\chi^2/\text{NDF}: 28.0/17$

Out: 917.614 ± 599.942 $\chi^2/\text{NDF}: 20.9/20$

All: 196.920 ± 440.870 $\chi^2/\text{NDF}: 52.0/38$

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 2207.254+/-0.610 χ^2/NDF : 1249266.5/15

Left Out: 1221.608+/-0.606 χ^2/NDF :13206.6/2

Right Out: 2127.224+/-0.594 χ^2/NDF : 1458046.9/17

Left In: 1285.400+/-0.699 χ^2/NDF :62476.7/1

Left: 1248.951+/-0.458 χ^2/NDF : 80436.4/4

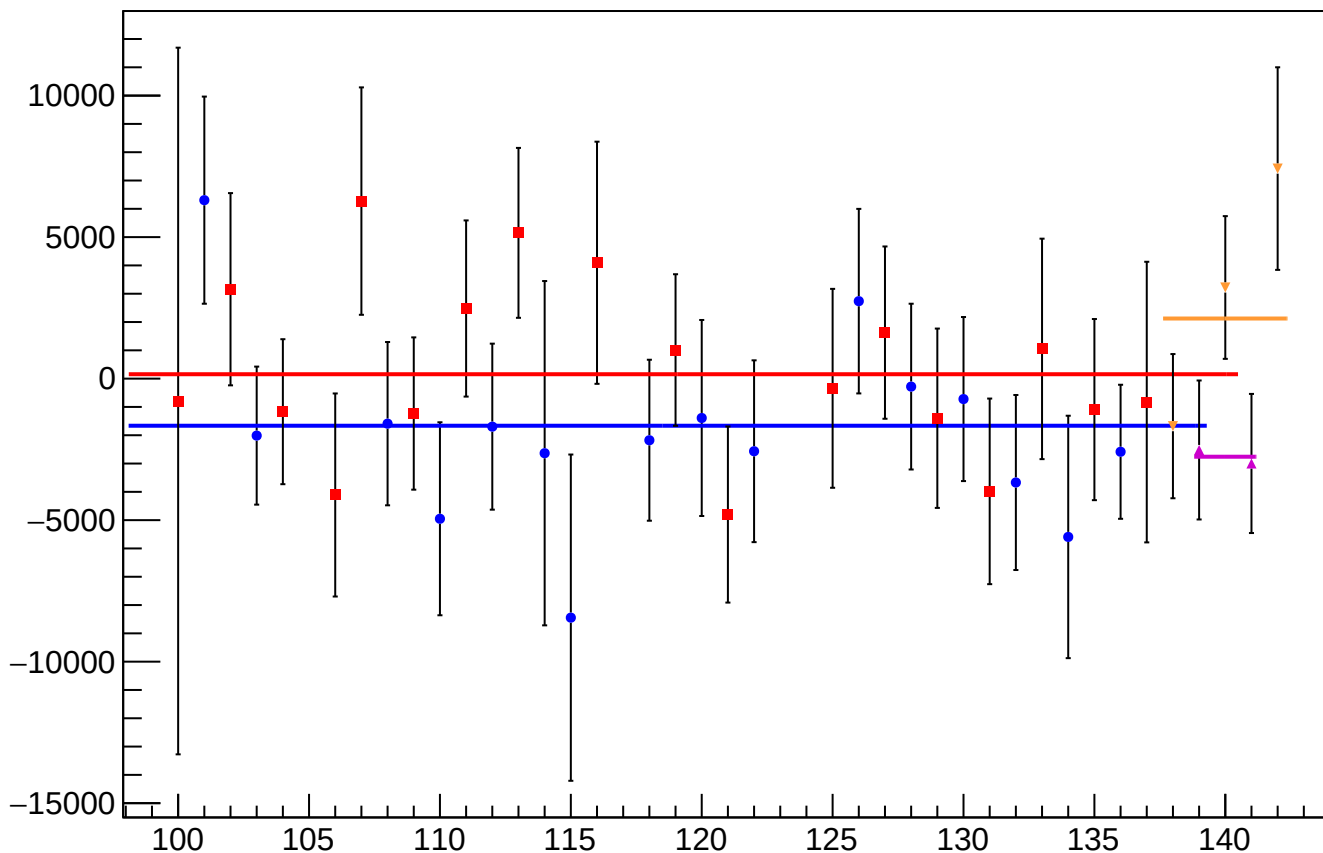
Right: 2166.205+/-0.426 χ^2/NDF : 2716147.2/33

In: 1809.122+/-0.460 χ^2/NDF :2298669.0/17

Out: 1683.110+/-0.424 χ^2/NDF :2610135.3/20

All: 1741.074+/-0.312 χ^2/NDF : 4949390.8/38

cor_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1664.231+/-792.164 χ^2/NDF : 10.8/15

Left Out: 2124.061+/-1602.445 χ^2/NDF : 4.6/2

Right Out: 155.775+/-785.481 χ^2/NDF : 14.2/17

Left In: -2758.996+/-1737.050 χ^2/NDF : 0.0/1

Left: -120.966+/-1177.815 χ^2/NDF : 8.9/4

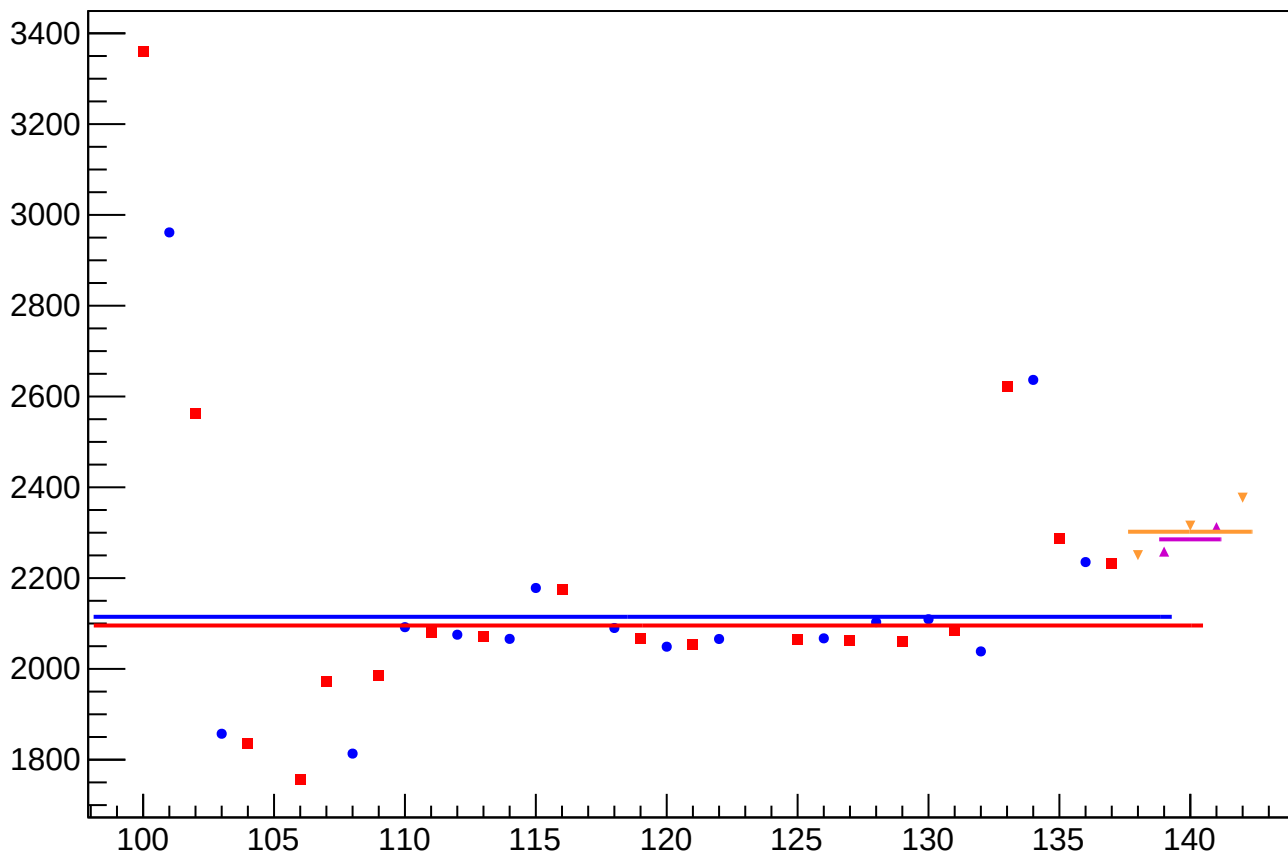
Right: -746.519+/-557.767 χ^2/NDF : 27.6/33

In: -1852.713+/-720.753 χ^2/NDF : 11.1/17

Out: 537.083+/-705.305 χ^2/NDF : 20.0/20

All: -631.930+/-504.099 χ^2/NDF : 36.8/38

cor_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2114.755+/-0.560 χ^2/NDF : 189920.9/15

Left Out: 2302.149+/-1.133 χ^2/NDF :1755.4/2

Right Out: 2095.597+/-0.555 χ^2/NDF : 149360.5/17

Left In: 2285.337+/-1.228 χ^2/NDF :481.5/1

Left: 2294.420+/-0.833 χ^2/NDF : 2338.1/4

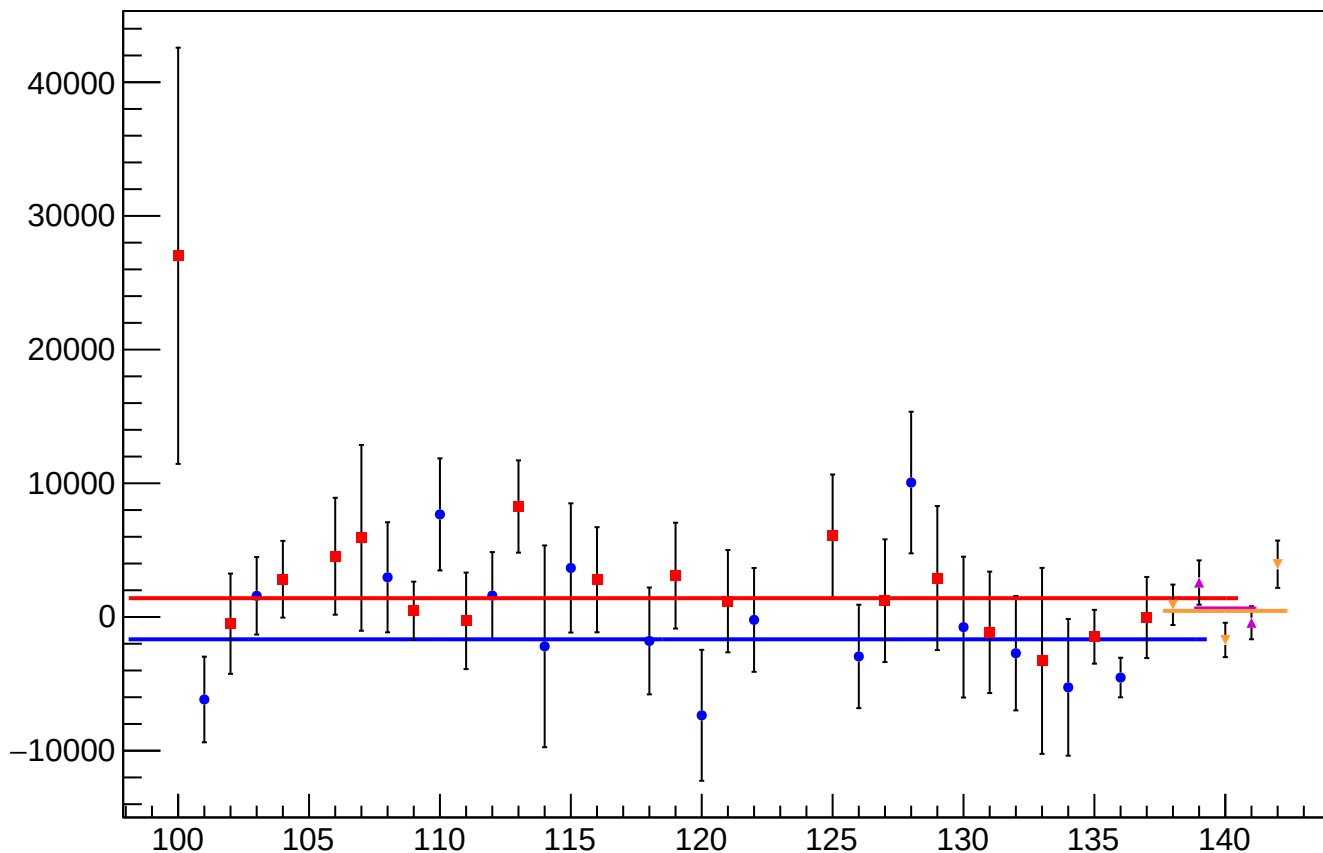
Right: 2105.095+/-0.394 χ^2/NDF : 339871.2/33

In: 2144.123+/-0.510 χ^2/NDF :206369.0/17

Out: 2135.611+/-0.499 χ^2/NDF :177908.0/20

All: 2139.775+/-0.356 χ^2/NDF : 384419.6/38

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1668.482 $\pm$ 862.126 χ^2 /NDF: 22.5/15

Left Out: 455.834 $\pm$ 856.730 χ^2 /NDF:6.8/2

Right Out: 1407.975 $\pm$ 847.068 χ^2 /NDF: 13.0/17

Left In: 641.880 $\pm$ 989.112 χ^2 /NDF:2.1/1

Left: 535.582 $\pm$ 647.584 χ^2 /NDF: 9.0/4

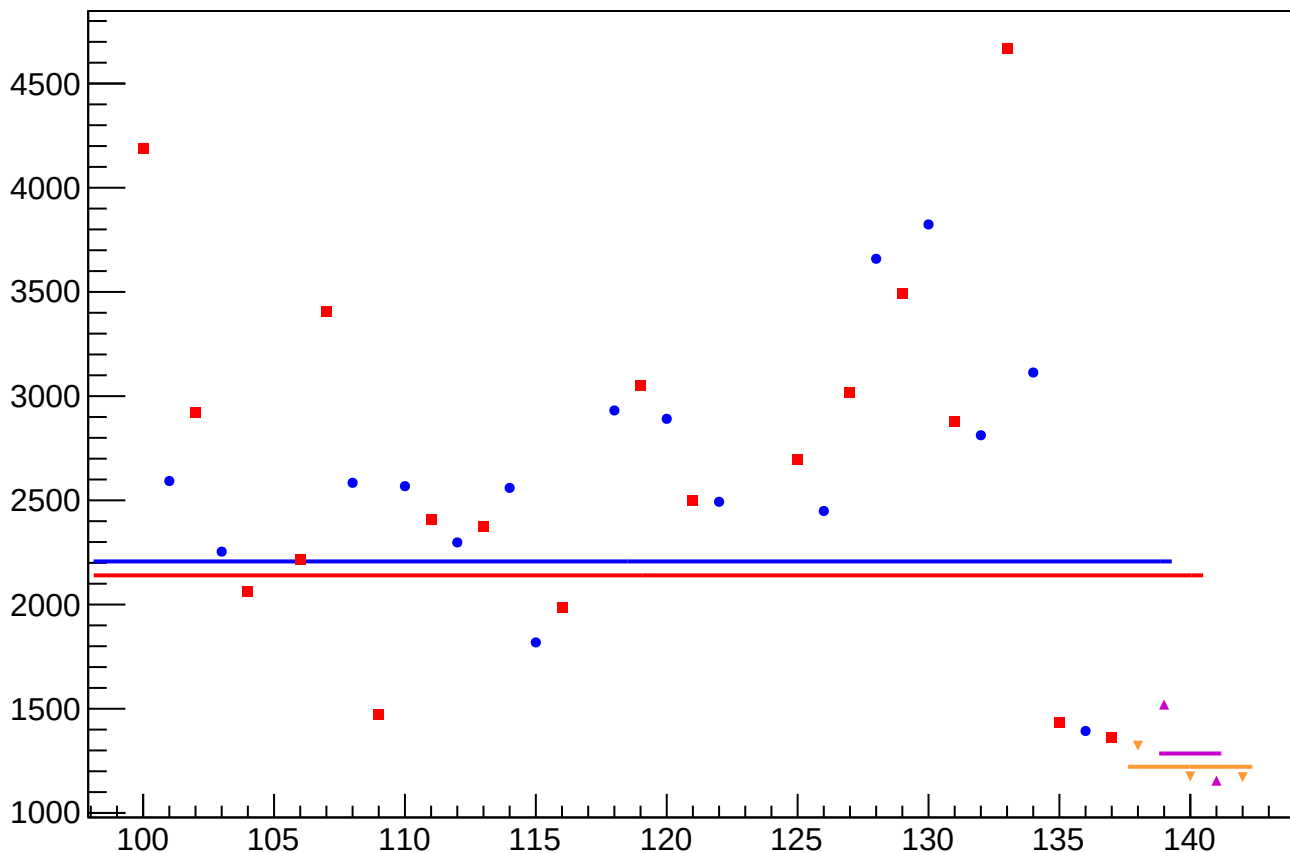
Right: -103.153 $\pm$ 604.221 χ^2 /NDF: 42.0/33

In: -671.039 $\pm$ 649.904 χ^2 /NDF:27.7/17

Out: 937.303 $\pm$ 602.355 χ^2 /NDF:20.4/20

All: 194.115 $\pm$ 441.784 χ^2 /NDF: 51.5/38

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 2206.918 $\pm$ 0.610 χ^2 /NDF: 1249024.4/15

Left Out: 1221.638 $\pm$ 0.606 χ^2 /NDF:13197.1/2

Right Out: 2140.060 $\pm$ 0.599 χ^2 /NDF: 1448366.8/17

Left In: 1285.373 $\pm$ 0.699 χ^2 /NDF:62491.4/1

Left: 1248.958 $\pm$ 0.458 χ^2 /NDF: 80433.2/4

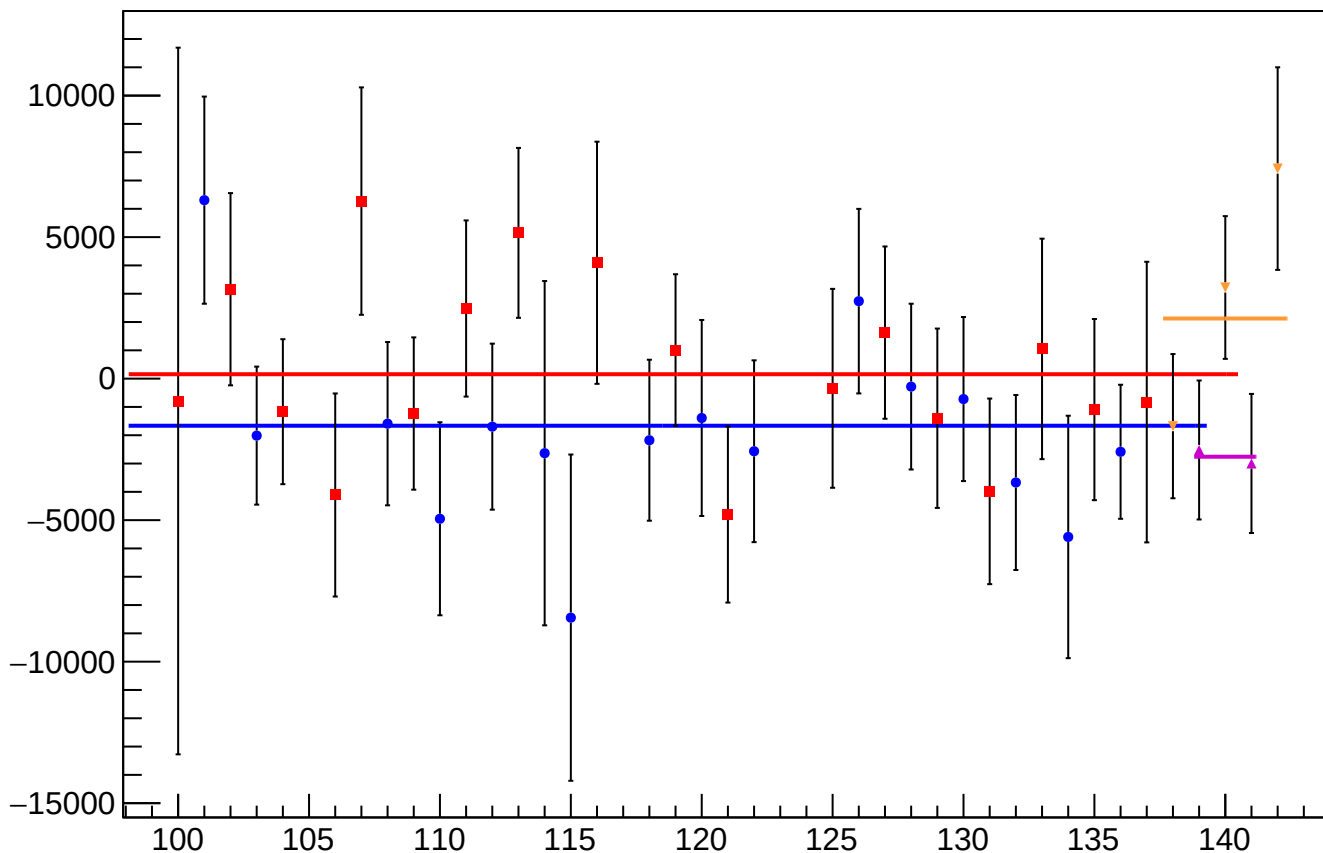
Right: 2172.900 $\pm$ 0.427 χ^2 /NDF: 2703511.1/33

In: 1809.063 $\pm$ 0.460 χ^2 /NDF:2298090.1/17

Out: 1686.057 $\pm$ 0.426 χ^2 /NDF:2623800.0/20

All: 1742.896 $\pm$ 0.312 χ^2 /NDF: 4960429.2/38

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1664.231+/-792.164 χ^2/NDF : 10.8/15

Left Out: 2124.061+/-1602.445 χ^2/NDF : 4.6/2

Right Out: 155.775+/-785.481 χ^2/NDF : 14.2/17

Left In: -2758.996+/-1737.050 χ^2/NDF : 0.0/1

Left: -120.966+/-1177.815 χ^2/NDF : 8.9/4

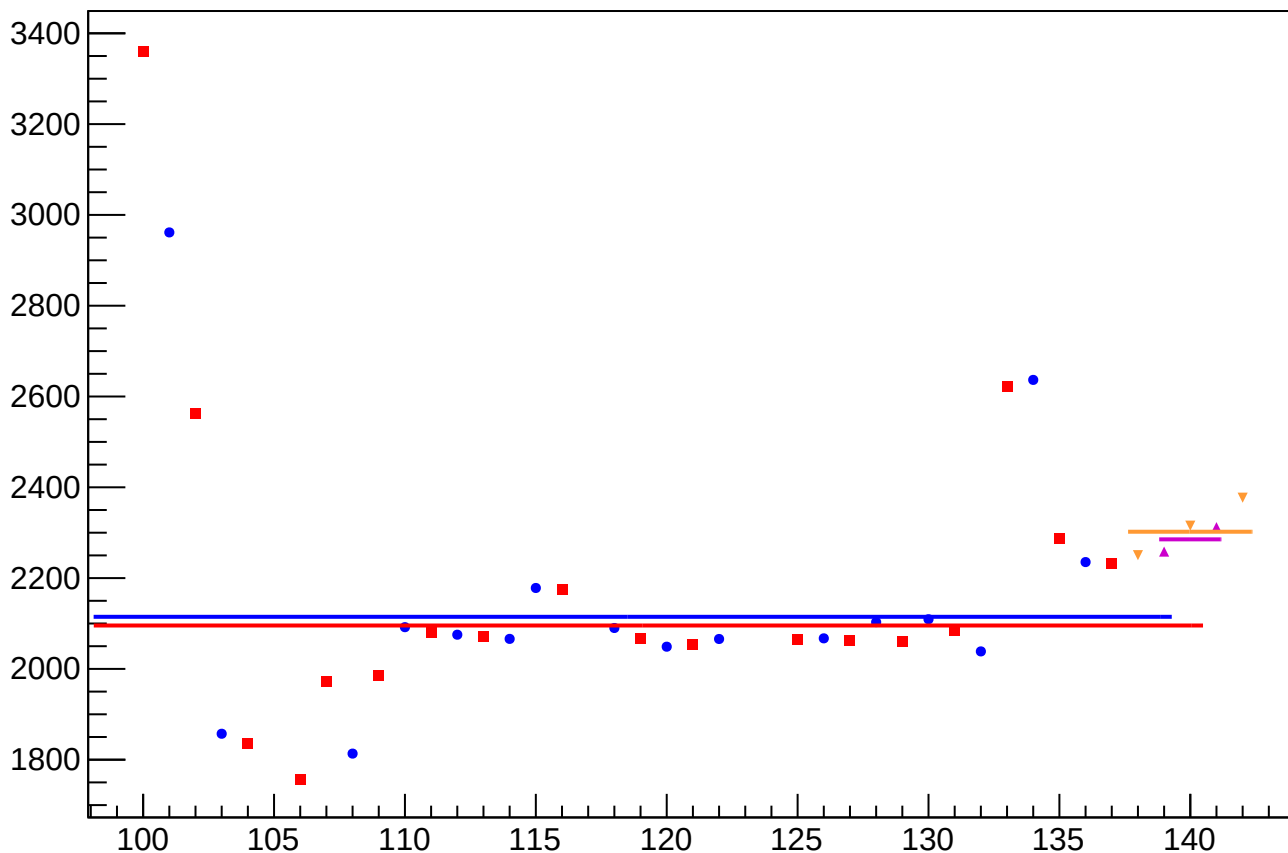
Right: -746.519+/-557.767 χ^2/NDF : 27.6/33

In: -1852.713+/-720.753 χ^2/NDF : 11.1/17

Out: 537.083+/-705.305 χ^2/NDF : 20.0/20

All: -631.930+/-504.099 χ^2/NDF : 36.8/38

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2114.755+/-0.560 χ^2/NDF : 189920.9/15

Left Out: 2302.149+/-1.133 χ^2/NDF : 1755.4/2

Right Out: 2095.597+/-0.555 χ^2/NDF : 149360.5/17

Left In: 2285.337+/-1.228 χ^2/NDF : 481.5/1

Left: 2294.420+/-0.833 χ^2/NDF : 2338.1/4

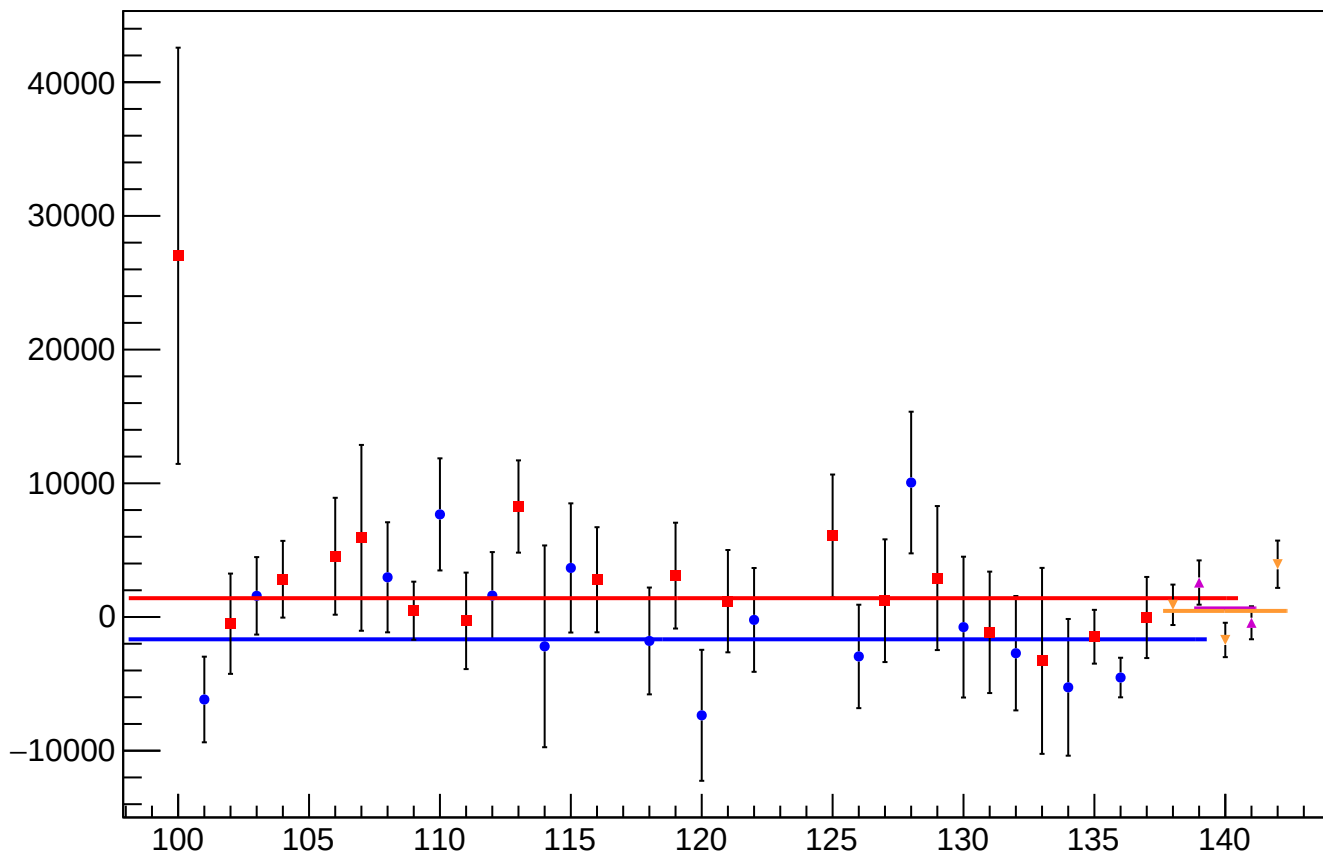
Right: 2105.095+/-0.394 χ^2/NDF : 339871.2/33

In: 2144.123+/-0.510 χ^2/NDF : 206369.0/17

Out: 2135.611+/-0.499 χ^2/NDF : 177908.0/20

All: 2139.775+/-0.356 χ^2/NDF : 384419.6/38

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1668.482 $\pm$ 862.126 χ^2 /NDF: 22.5/15

Left Out: 455.834 $\pm$ 856.730 χ^2 /NDF:6.8/2

Right Out: 1407.975 $\pm$ 847.068 χ^2 /NDF: 13.0/17

Left In: 641.880 $\pm$ 989.112 χ^2 /NDF:2.1/1

Left: 535.582 $\pm$ 647.584 χ^2 /NDF: 9.0/4

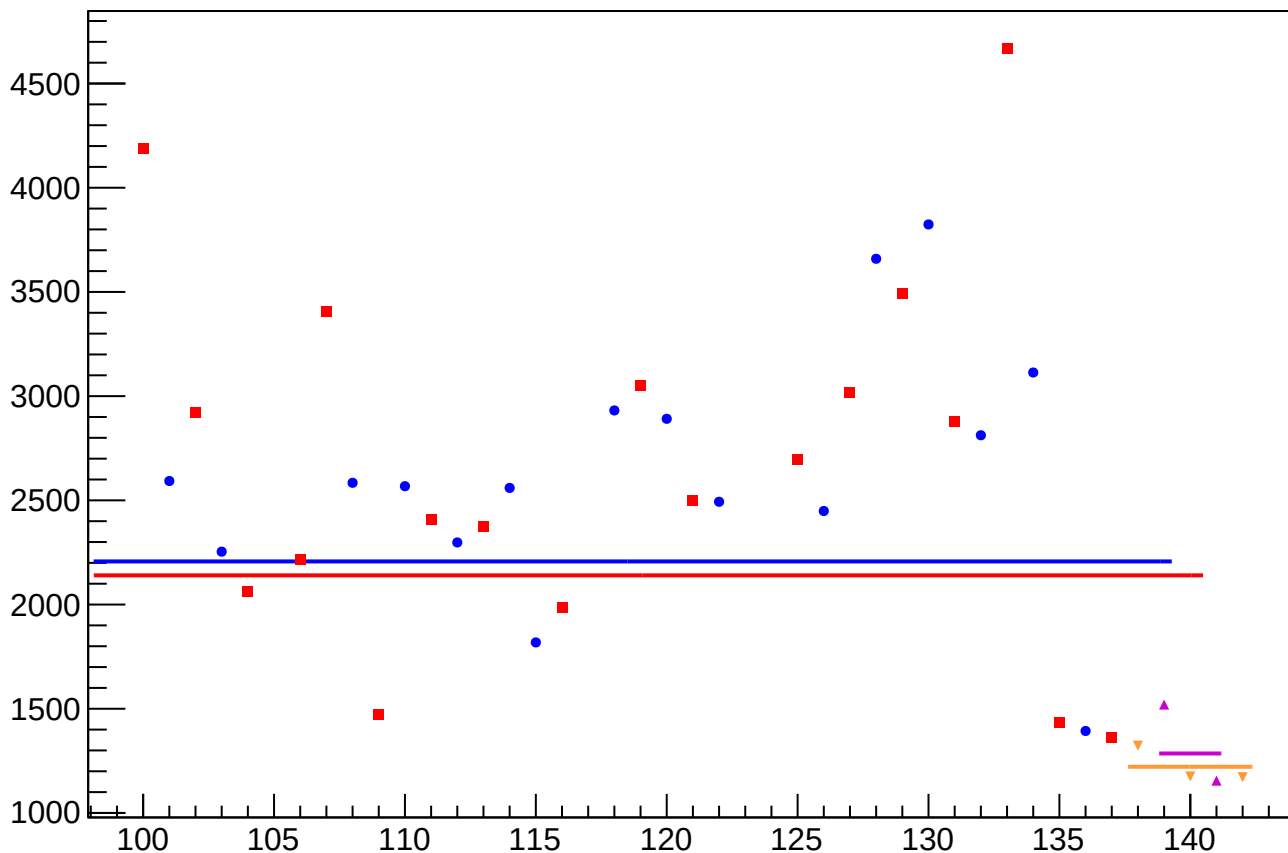
Right: -103.153 $\pm$ 604.221 χ^2 /NDF: 42.0/33

In: -671.039 $\pm$ 649.904 χ^2 /NDF:27.7/17

Out: 937.303 $\pm$ 602.355 χ^2 /NDF:20.4/20

All: 194.115 $\pm$ 441.784 χ^2 /NDF: 51.5/38

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2206.918 $\pm$ 0.610 χ^2 /NDF: 1249024.4/15

Left Out: 1221.638 $\pm$ 0.606 χ^2 /NDF:13197.1/2

Right Out: 2140.060 $\pm$ 0.599 χ^2 /NDF: 1448366.8/17

Left In: 1285.373 $\pm$ 0.699 χ^2 /NDF:62491.4/1

Left: 1248.958 $\pm$ 0.458 χ^2 /NDF: 80433.2/4

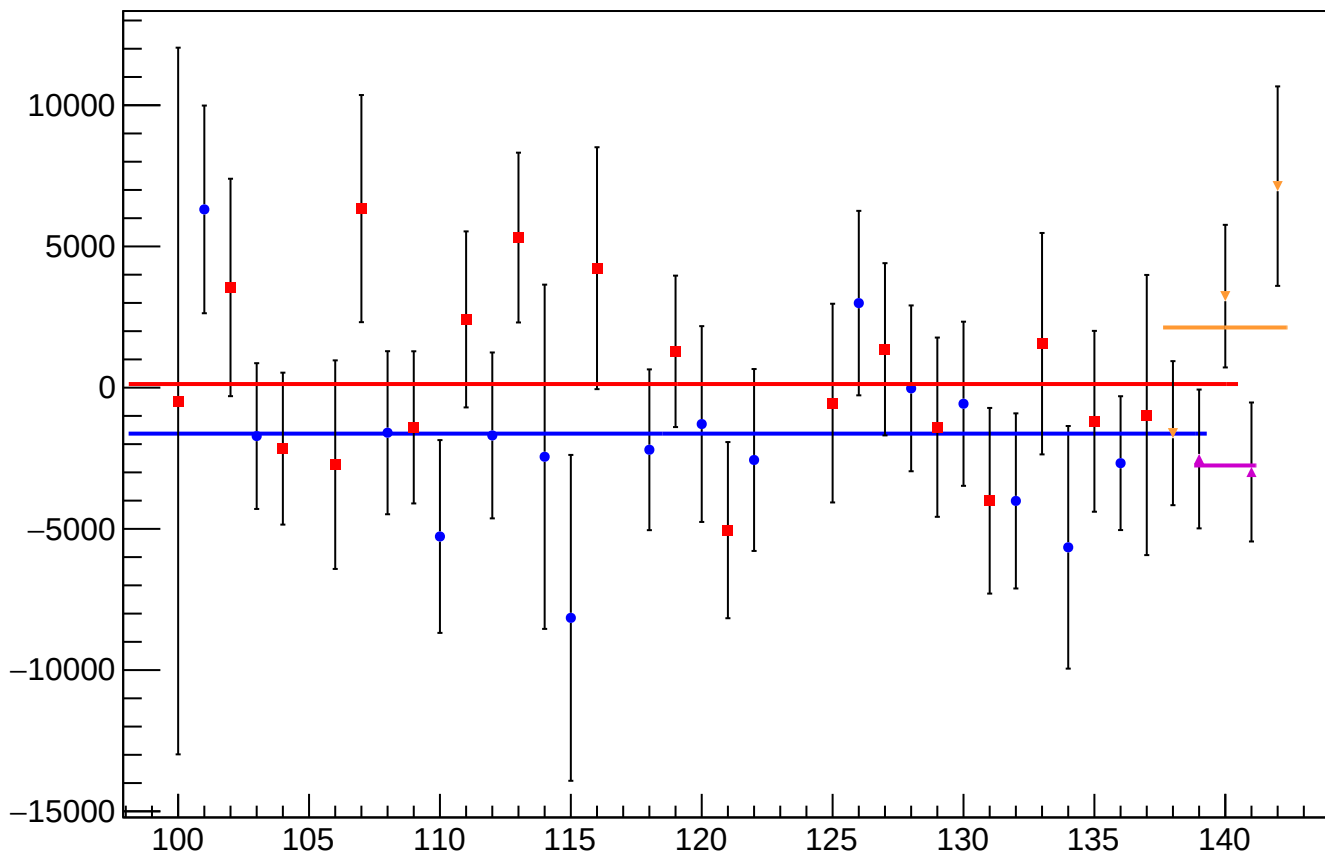
Right: 2172.900 $\pm$ 0.427 χ^2 /NDF: 2703511.1/33

In: 1809.063 $\pm$ 0.460 χ^2 /NDF:2298090.1/17

Out: 1686.057 $\pm$ 0.426 χ^2 /NDF:2623800.0/20

All: 1742.896 $\pm$ 0.312 χ^2 /NDF: 4960429.2/38

dit_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1627.635 $\pm$ 797.966 χ^2 /NDF: 11.3/15

Left Out: 2130.552 $\pm$ 1599.549 χ^2 /NDF:4.4/2

Right Out: 128.099 $\pm$ 795.899 χ^2 /NDF: 14.6/17

Left In: -2755.207 $\pm$ 1738.804 χ^2 /NDF:0.0/1

Left: -108.877 $\pm$ 1177.209 χ^2 /NDF: 8.6/4

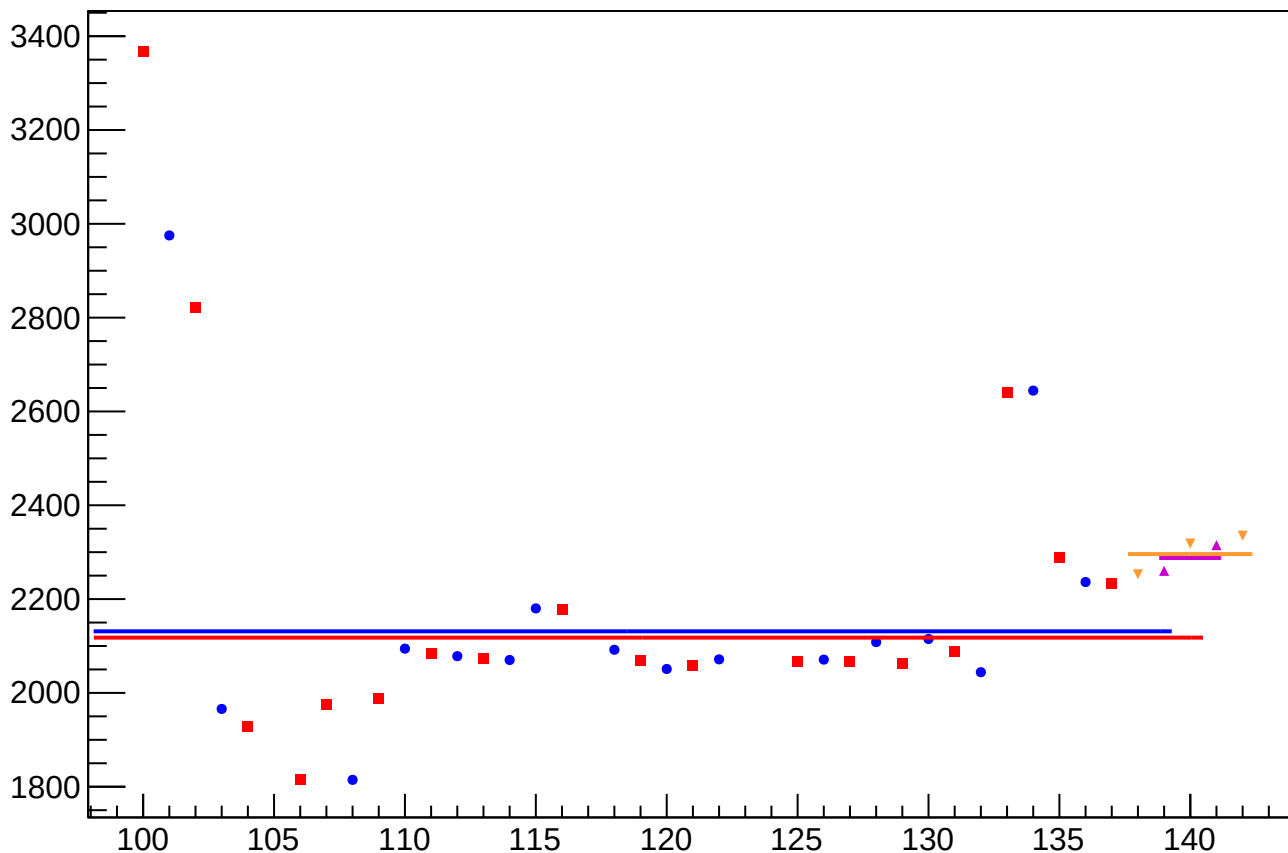
Right: -747.490 $\pm$ 563.515 χ^2 /NDF: 28.3/33

In: -1823.794 $\pm$ 725.243 χ^2 /NDF:11.7/17

Out: 525.487 $\pm$ 712.563 χ^2 /NDF:20.2/20

All: -628.437 $\pm$ 508.282 χ^2 /NDF: 37.2/38

dit_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2131.298 $\pm$ 0.564 χ^2 /NDF: 175943.3/15

Left Out: 2295.976 $\pm$ 1.131 χ^2 /NDF: 975.7/2

Right Out: 2117.868 $\pm$ 0.563 χ^2 /NDF: 163622.7/17

Left In: 2287.614 $\pm$ 1.230 χ^2 /NDF: 496.5/1

Left: 2292.143 $\pm$ 0.832 χ^2 /NDF: 1497.3/4

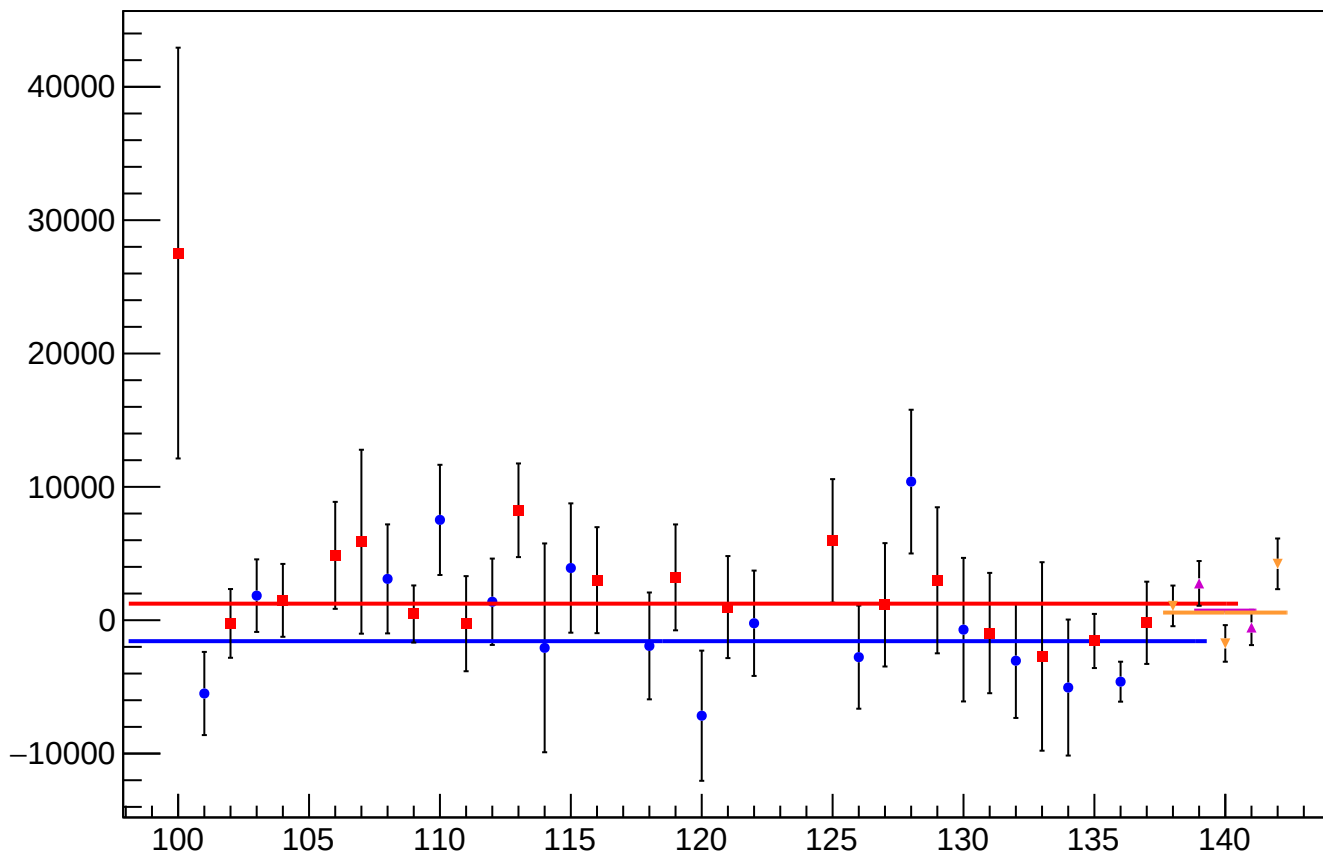
Right: 2124.565 $\pm$ 0.398 χ^2 /NDF: 339850.1/33

In: 2158.492 $\pm$ 0.513 χ^2 /NDF: 189791.4/17

Out: 2153.213 $\pm$ 0.504 χ^2 /NDF: 184474.8/20

All: 2155.806 $\pm$ 0.359 χ^2 /NDF: 374320.1/38

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1571.073 $\pm$ 859.754 χ^2 /NDF: 22.6/15

Left Out: 573.023 $\pm$ 898.615 χ^2 /NDF:6.7/2

Right Out: 1241.008 $\pm$ 819.775 χ^2 /NDF: 13.1/17

Left In: 718.593 $\pm$ 1037.432 χ^2 /NDF:2.4/1

Left: 635.424 $\pm$ 679.233 χ^2 /NDF: 9.1/4

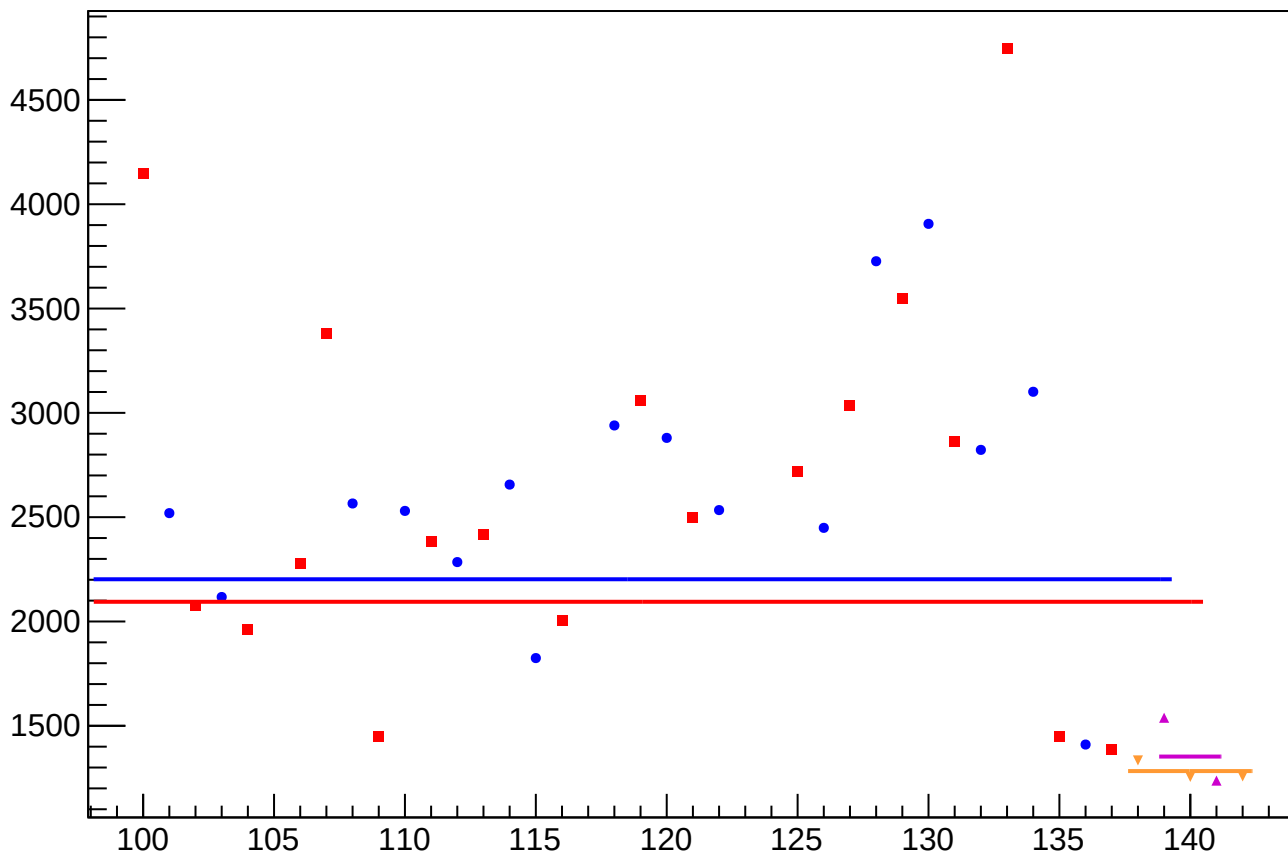
Right: -98.133 $\pm$ 593.299 χ^2 /NDF: 41.3/33

In: -638.811 $\pm$ 661.977 χ^2 /NDF:27.9/17

Out: 937.598 $\pm$ 605.627 χ^2 /NDF:20.0/20

All: 219.333 $\pm$ 446.839 χ^2 /NDF: 51.0/38

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 2202.378+/-0.608 χ^2/NDF : 1222965.0/15

Left Out: 1282.996+/-0.635 χ^2/NDF : 3439.5/2

Right Out: 2094.445+/-0.580 χ^2/NDF : 1373676.8/17

Left In: 1352.550+/-0.734 χ^2/NDF : 39851.9/1

Left: 1312.811+/-0.480 χ^2/NDF : 48427.7/4

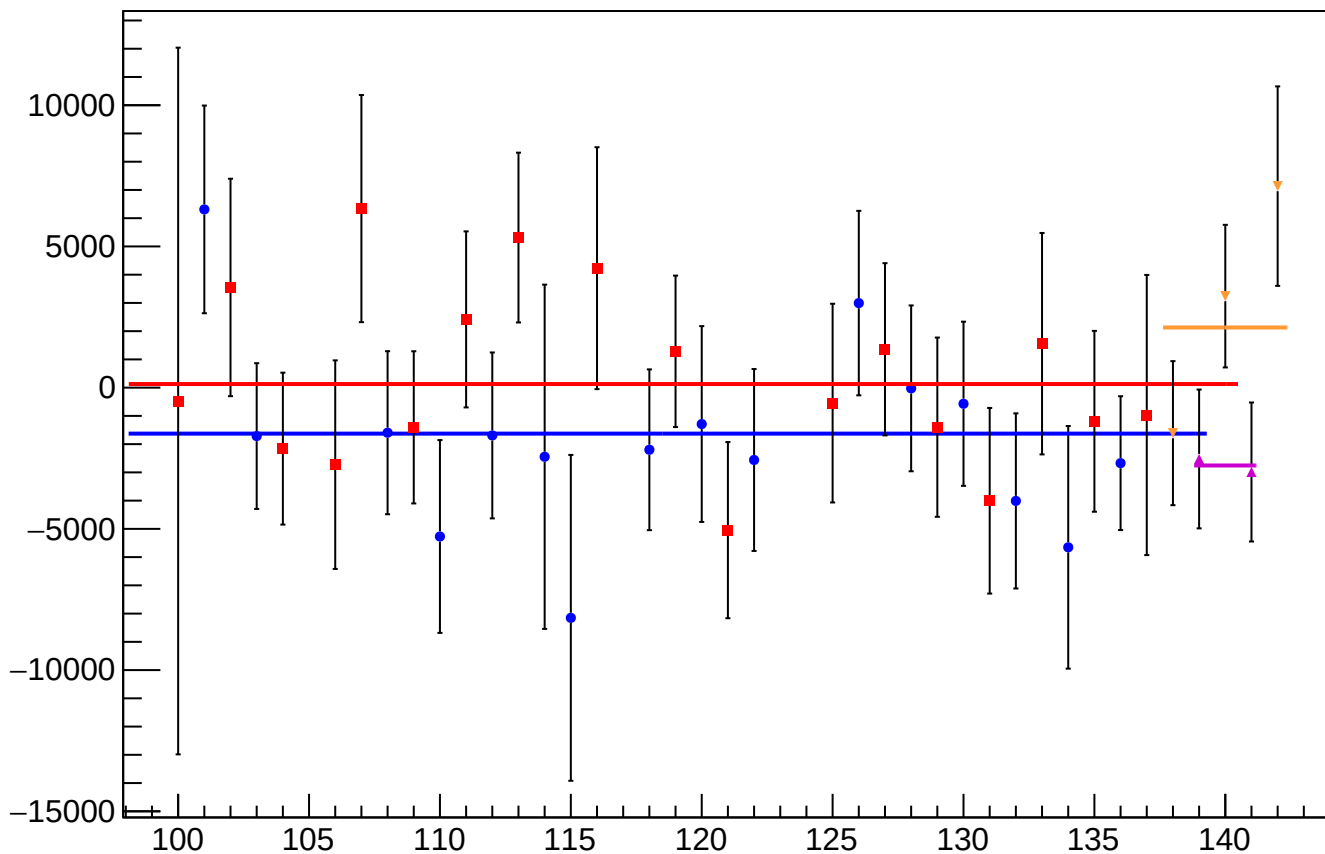
Right: 2145.844+/-0.420 χ^2/NDF : 2613152.0/33

In: 1856.362+/-0.468 χ^2/NDF : 2058445.5/17

Out: 1725.872+/-0.428 χ^2/NDF : 2267190.0/20

All: 1785.327+/-0.316 χ^2/NDF : 4367940.4/38

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1627.637 $\pm$ 797.966 χ^2 /NDF: 11.3/15

Left Out: 2130.562 $\pm$ 1599.549 χ^2 /NDF:4.4/2

Right Out: 128.093 $\pm$ 795.899 χ^2 /NDF: 14.6/17

Left In: -2755.184 $\pm$ 1738.805 χ^2 /NDF:0.0/1

Left: -108.862 $\pm$ 1177.209 χ^2 /NDF: 8.6/4

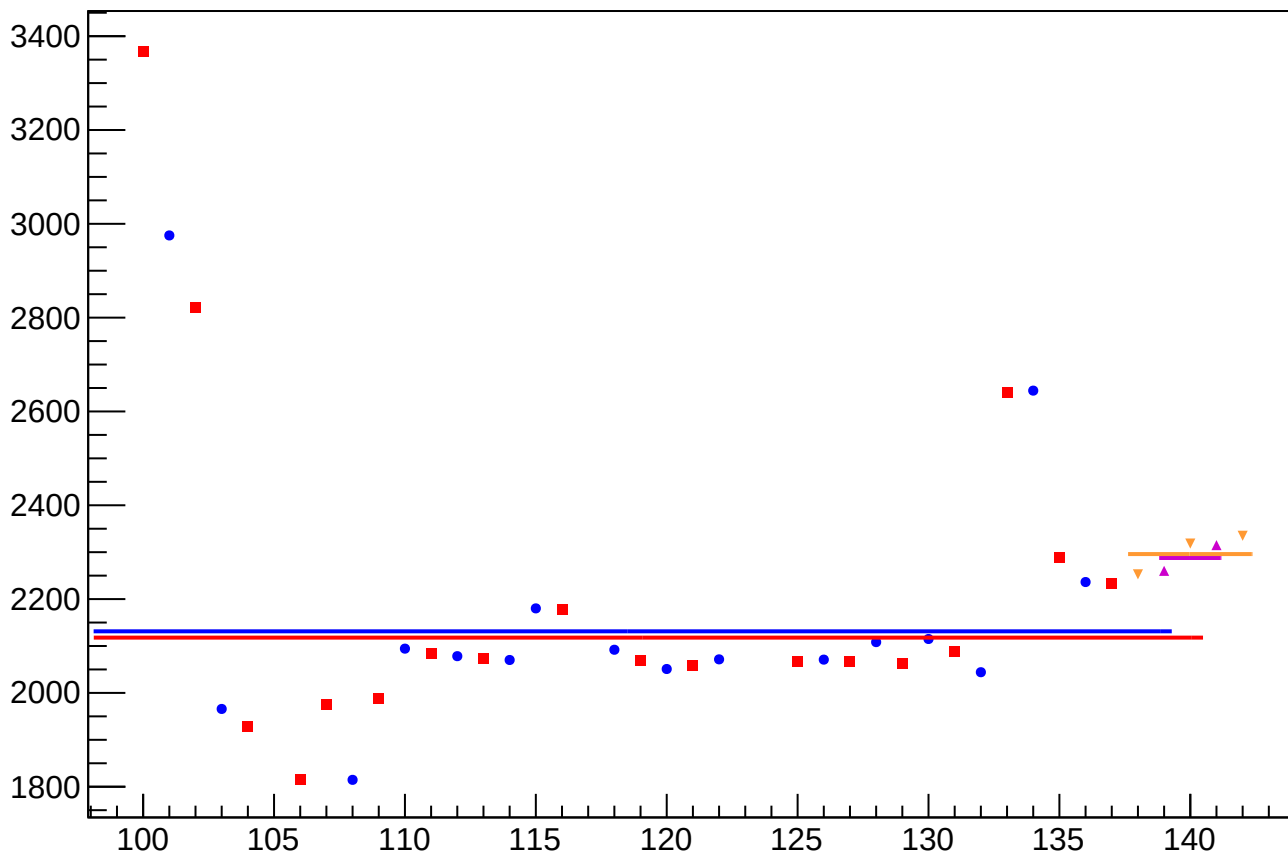
Right: -747.494 $\pm$ 563.515 χ^2 /NDF: 28.3/33

In: -1823.792 $\pm$ 725.243 χ^2 /NDF:11.7/17

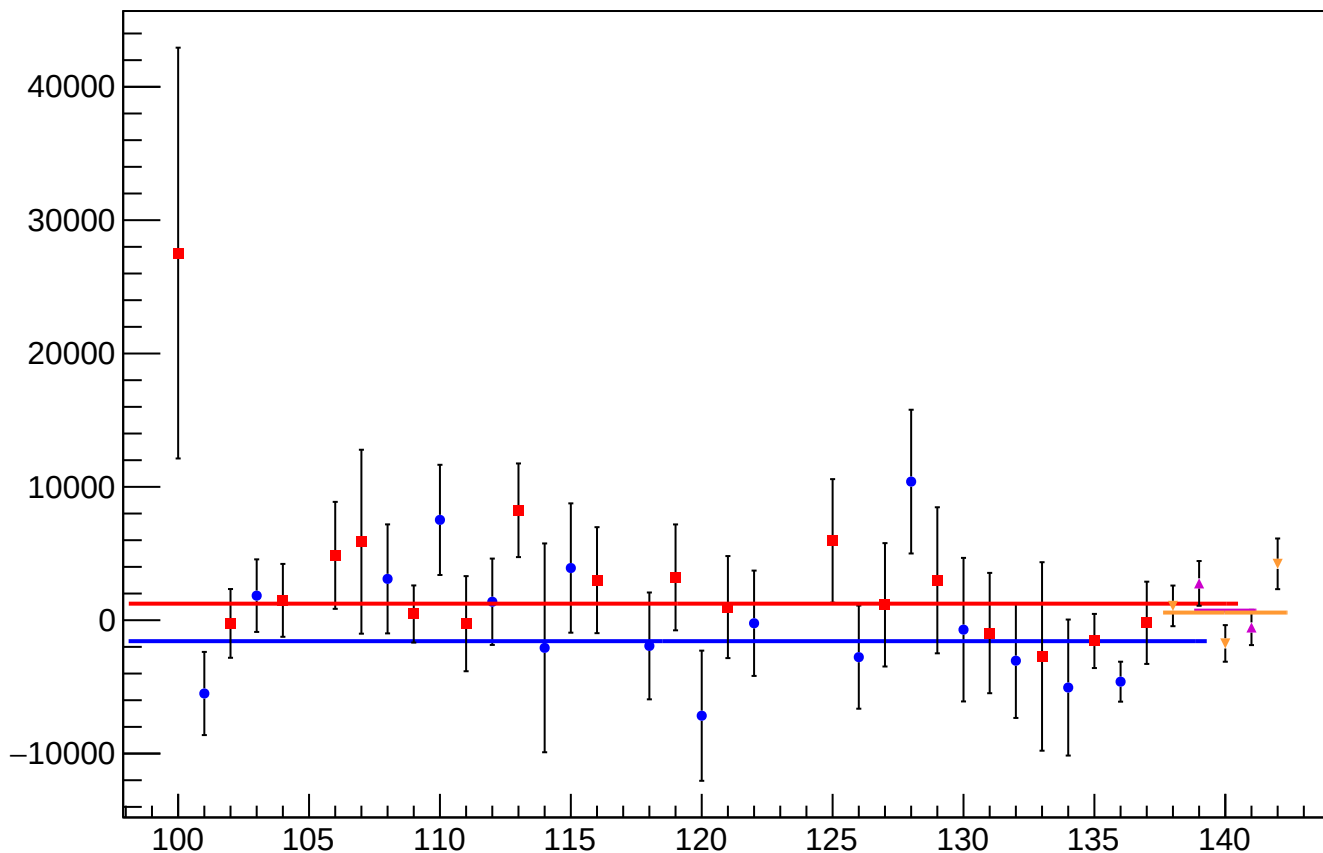
Out: 525.484 $\pm$ 712.563 χ^2 /NDF:20.2/20

All: -628.438 $\pm$ 508.282 χ^2 /NDF: 37.2/38

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1571.058 $\pm$ 859.757 χ^2 /NDF: 22.6/15

Left Out: 573.030 $\pm$ 898.624 χ^2 /NDF:6.7/2

Right Out: 1241.023 $\pm$ 819.778 χ^2 /NDF: 13.1/17

Left In: 718.585 $\pm$ 1037.442 χ^2 /NDF:2.4/1

Left: 635.424 $\pm$ 679.240 χ^2 /NDF: 9.1/4

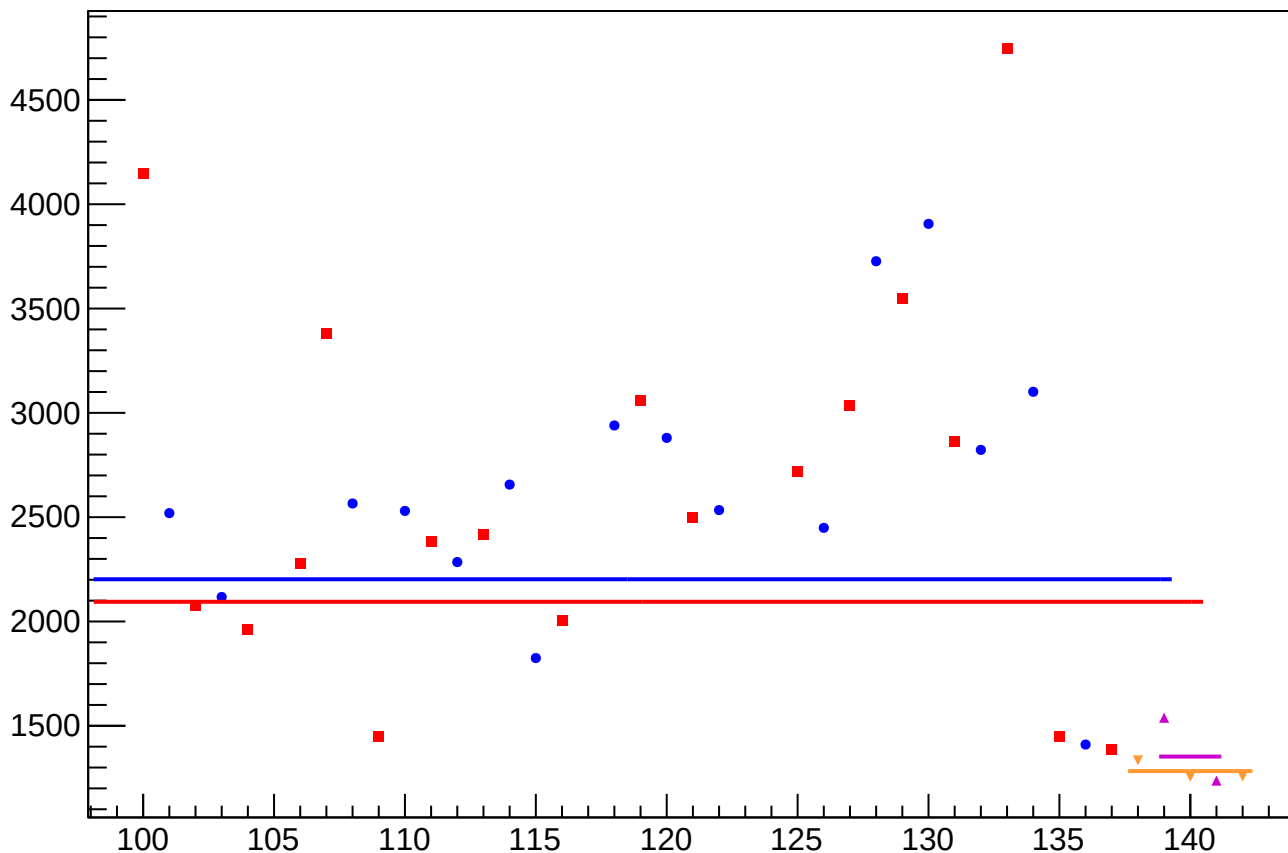
Right: -98.119 $\pm$ 593.301 χ^2 /NDF: 41.3/33

In: -638.813 $\pm$ 661.980 χ^2 /NDF:27.9/17

Out: 937.612 $\pm$ 605.631 χ^2 /NDF:20.0/20

All: 219.339 $\pm$ 446.841 χ^2 /NDF: 51.0/38

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2202.391 +/- 0.608 χ^2/NDF : 1222905.3/15

Left Out: 1283.007 +/- 0.635 χ^2/NDF : 3441.7/2

Right Out: 2094.457 +/- 0.580 χ^2/NDF : 1373629.6/17

Left In: 1352.562 +/- 0.734 χ^2/NDF : 39857.5/1

Left: 1312.823 +/- 0.480 χ^2/NDF : 48435.4/4

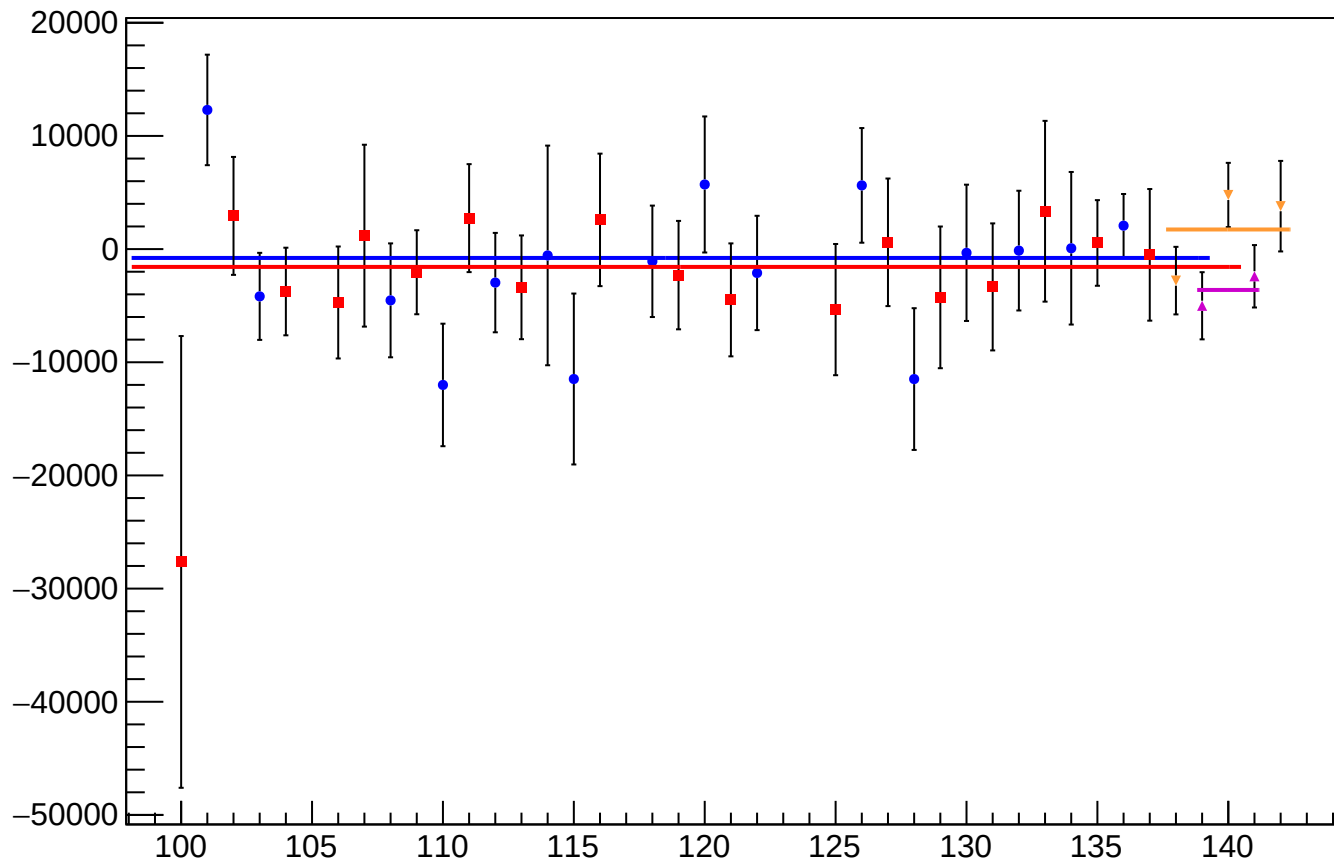
Right: 2145.856 +/- 0.420 χ^2/NDF : 2613045.0/33

In: 1856.376 +/- 0.468 χ^2/NDF : 2058380.8/17

Out: 1725.886 +/- 0.428 χ^2/NDF : 2267133.6/20

All: 1785.342 +/- 0.316 χ^2/NDF : 4367819.1/38

asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -781.619+/-1241.711 χ^2/NDF : 21.9/15

Left Out: 1732.430+/-1829.324 χ^2/NDF : 3.7/2

Right Out: -1574.673+/-1218.961 χ^2/NDF : 6.7/17

Left In: -3610.260+/-2020.089 χ^2/NDF : 0.4/1

Left: -674.797+/-1355.967 χ^2/NDF : 8.0/4

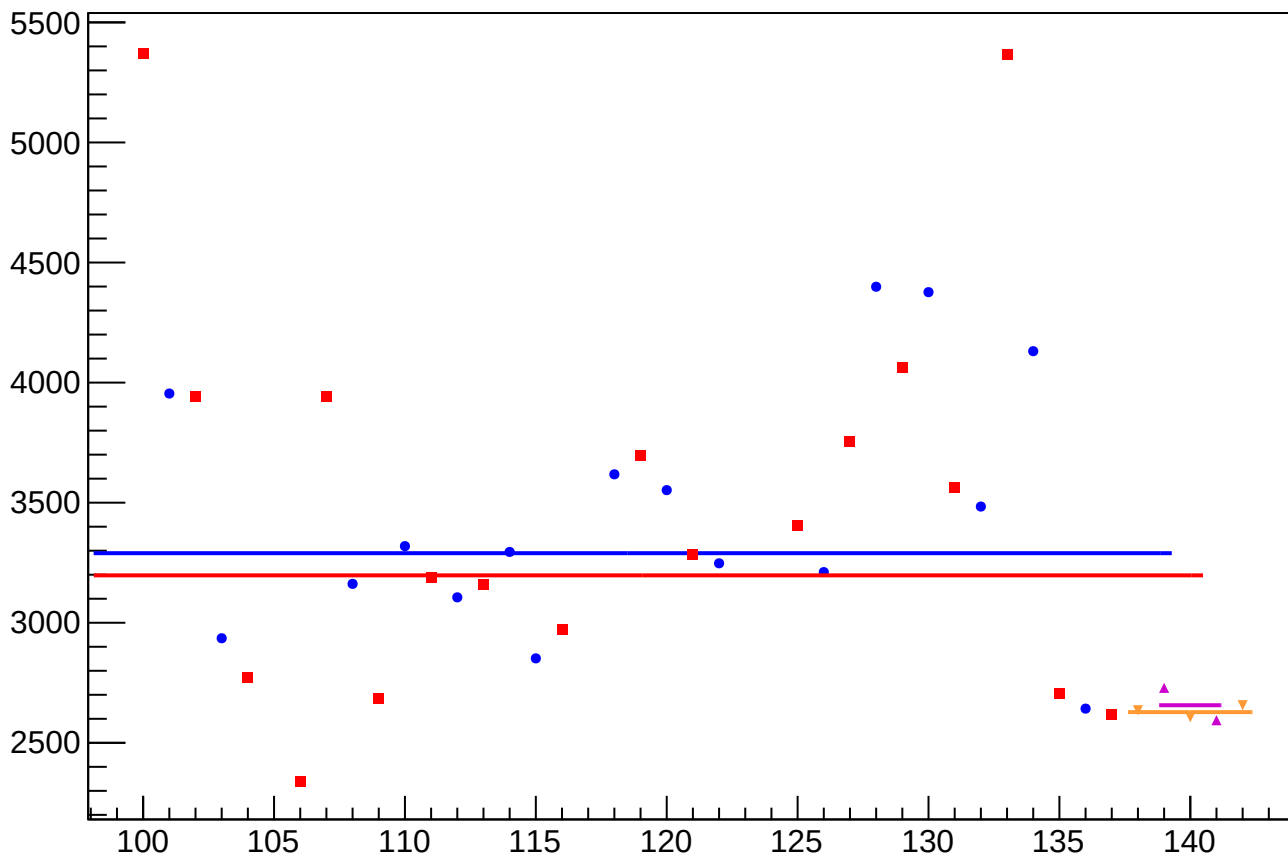
Right: -1185.478+/-869.867 χ^2/NDF : 28.8/33

In: -1557.297+/-1057.846 χ^2/NDF : 23.7/17

Out: -557.784+/-1014.387 χ^2/NDF : 12.7/20

All: -1036.588+/-732.162 χ^2/NDF : 36.9/38

asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3289.690 $\pm$ 0.878 χ^2 /NDF: 347594.0/15

Left Out: 2627.862 $\pm$ 1.294 χ^2 /NDF: 231.2/2

Right Out: 3197.375 $\pm$ 0.862 χ^2 /NDF: 499934.1/17

Left In: 2656.549 $\pm$ 1.428 χ^2 /NDF: 2214.0/1

Left: 2640.787 $\pm$ 0.959 χ^2 /NDF: 2666.8/4

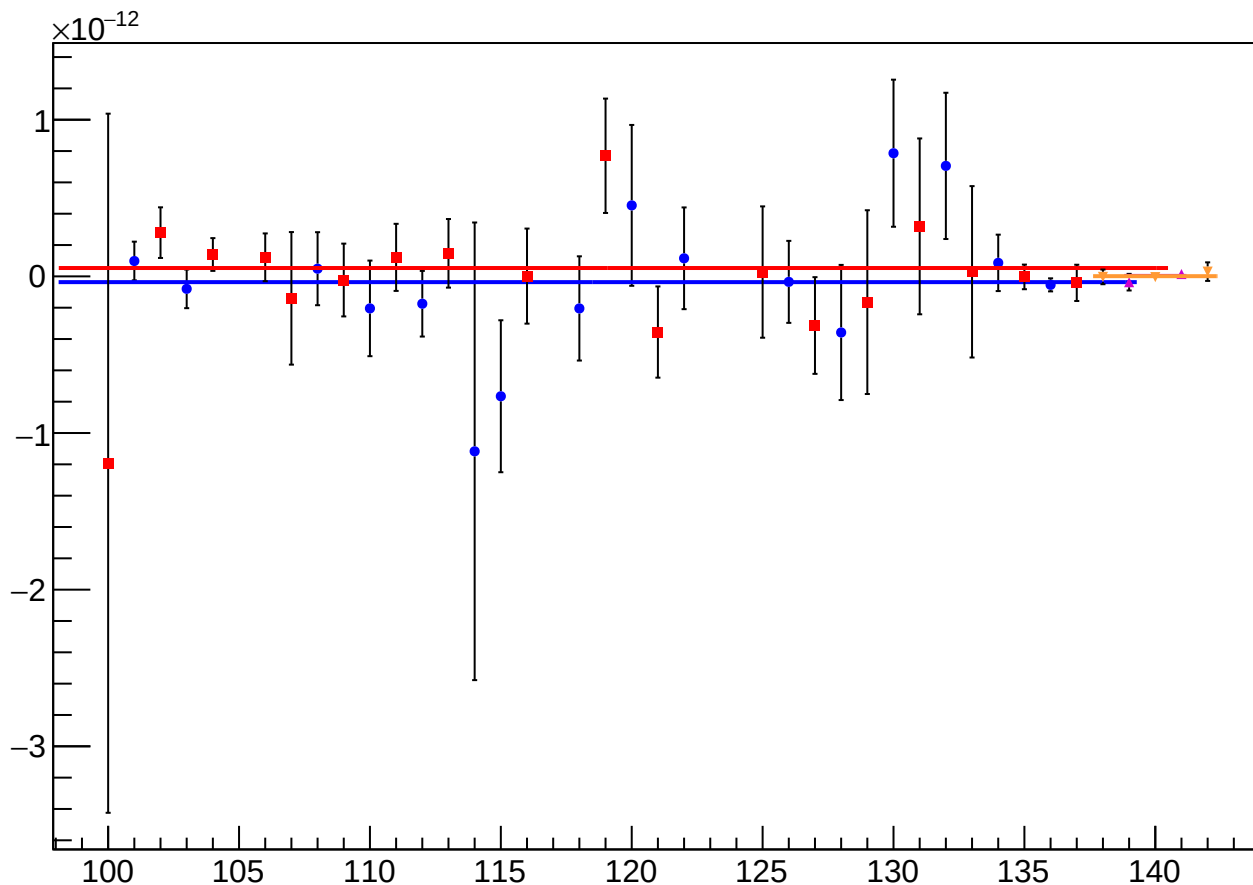
Right: 3242.678 $\pm$ 0.615 χ^2 /NDF: 853157.4/33

In: 3116.068 $\pm$ 0.748 χ^2 /NDF: 492399.4/17

Out: 3022.261 $\pm$ 0.717 χ^2 /NDF: 634407.4/20

All: 3067.198 $\pm$ 0.518 χ^2 /NDF: 1135000.3/38

asym_us_dd_at2lr_dd_avg_reg_vs_slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 13.2/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.3/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 12.6/17

Left In: 0.000 ± 0.000 χ^2/NDF : 0.7/1

Left: 0.000 ± 0.000 χ^2/NDF : 1.0/4

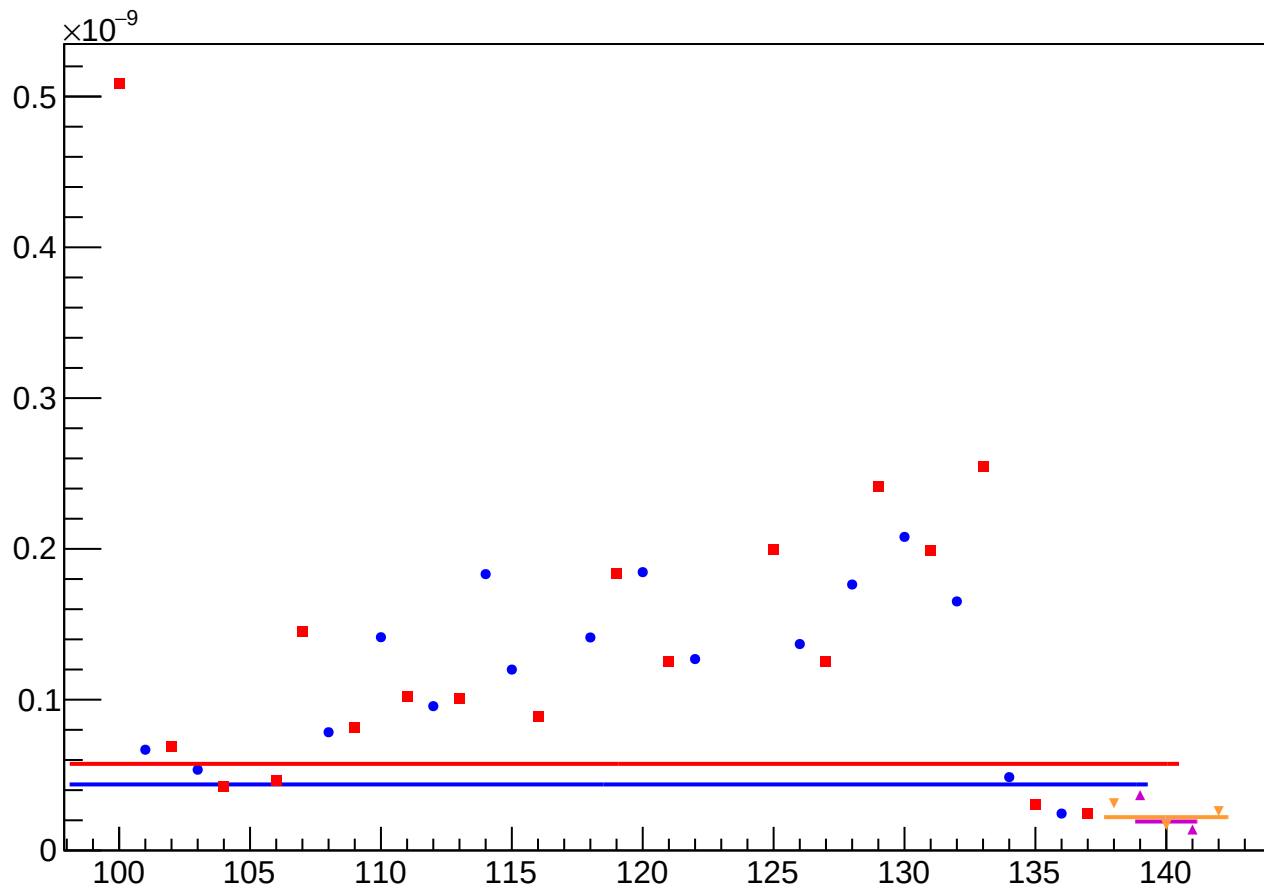
Right: -0.000 ± 0.000 χ^2/NDF : 28.4/33

In: -0.000 ± 0.000 χ^2/NDF : 14.8/17

Out: 0.000 ± 0.000 χ^2/NDF : 14.0/20

All: 0.000 ± 0.000 χ^2/NDF : 29.4/38

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2227887.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 141859.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2086696.1/17

Left In: 0.000+/-0.000 χ^2/NDF : 284228.9/1

Left: 0.000+/-0.000 χ^2/NDF : 439883.0/4

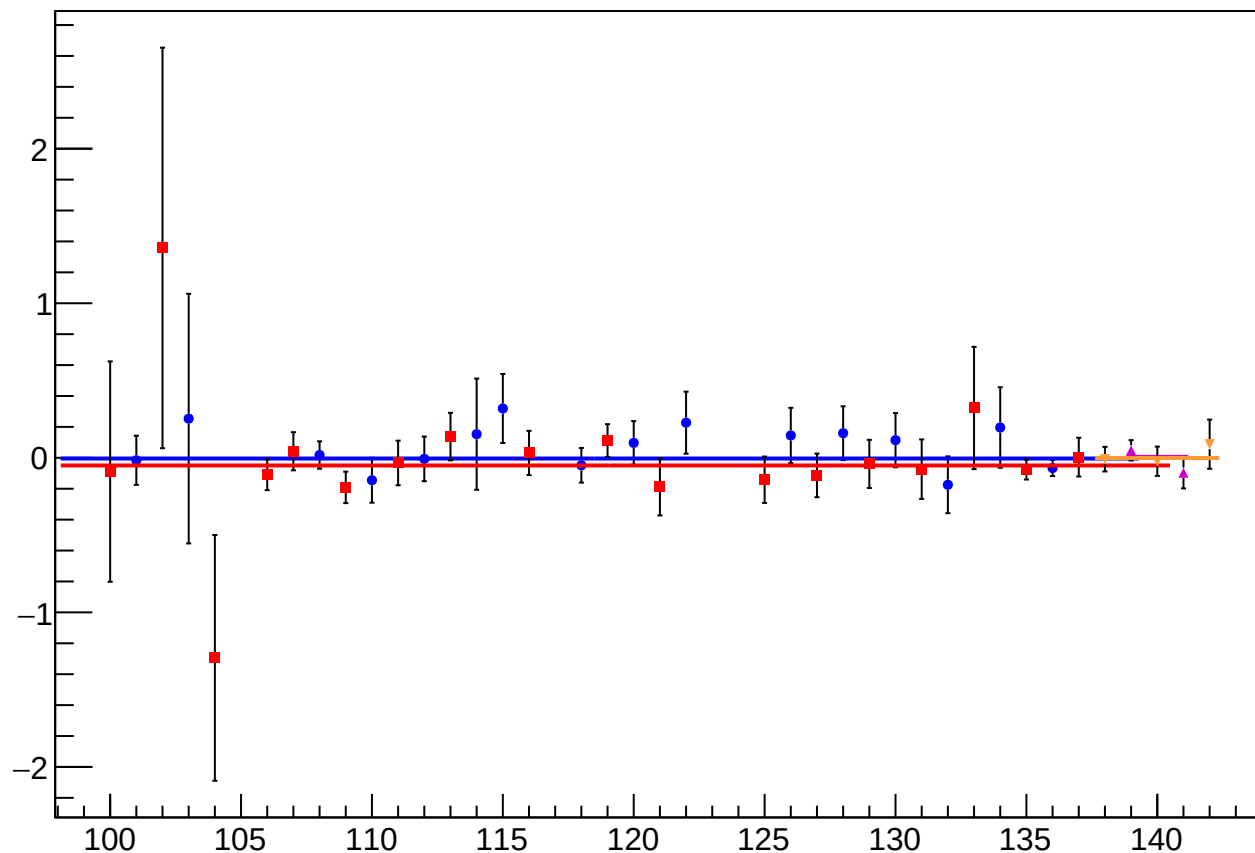
Right: 0.000+/-0.000 χ^2/NDF : 4436407.3/33

In: 0.000+/-0.000 χ^2/NDF : 3173236.8/17

Out: 0.000+/-0.000 χ^2/NDF : 3250086.2/20

All: 0.000+/-0.000 χ^2/NDF : 6436484.5/38

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.032 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -0.001 ± 0.057 $\chi^2/\text{NDF}: 0.4/2$

Right Out: -0.050 ± 0.032 $\chi^2/\text{NDF}: 13.0/17$

Left In: 0.006 ± 0.055 $\chi^2/\text{NDF}: 1.4/1$

Left: 0.003 ± 0.040 $\chi^2/\text{NDF}: 1.8/4$

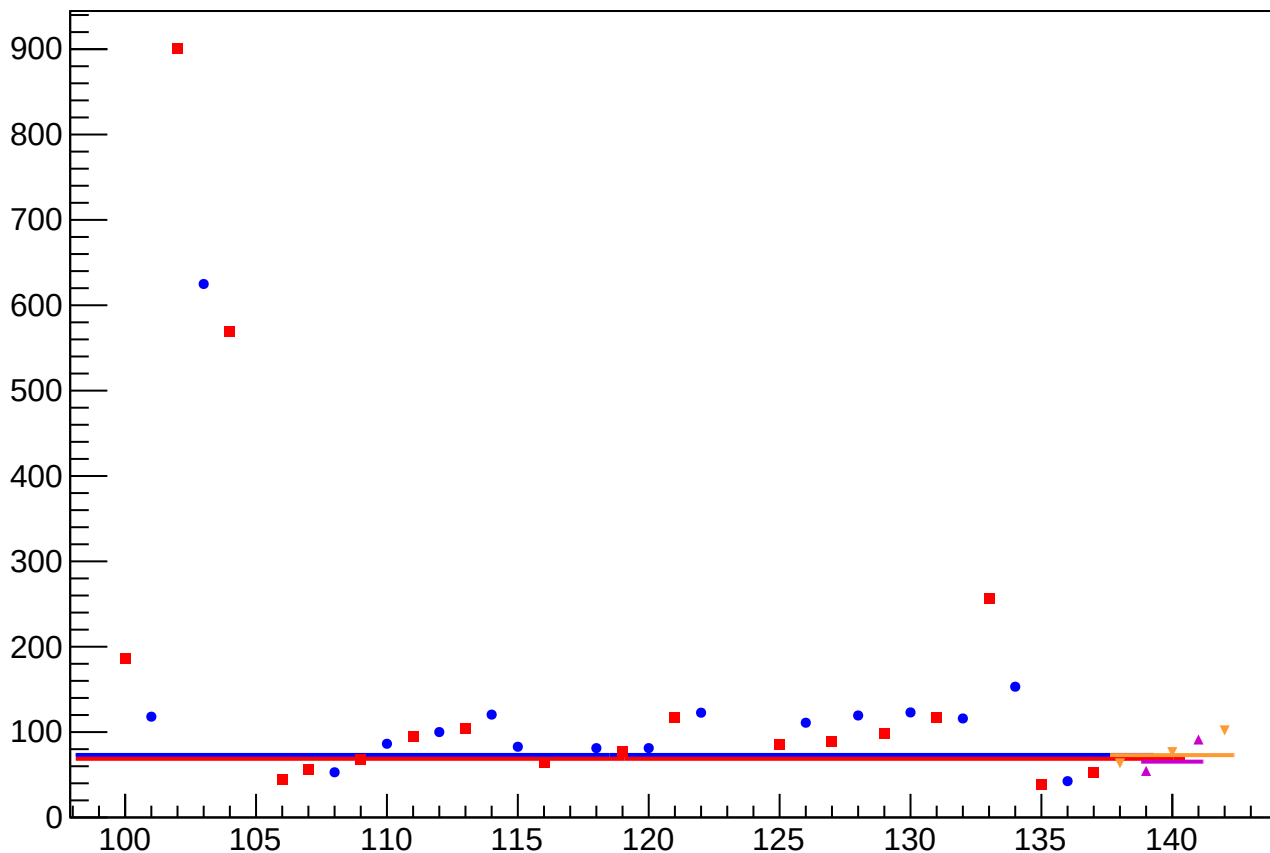
Right: -0.027 ± 0.023 $\chi^2/\text{NDF}: 24.3/33$

In: -0.002 ± 0.028 $\chi^2/\text{NDF}: 11.8/17$

Out: -0.038 ± 0.028 $\chi^2/\text{NDF}: 14.0/20$

All: -0.020 ± 0.020 $\chi^2/\text{NDF}: 26.6/38$

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 73.234+/-0.023 χ^2/NDF : 2854601.2/15

Left Out: 73.032+/-0.040 χ^2/NDF : 98255.4/2

Right Out: 68.724+/-0.022 χ^2/NDF : 3331744.2/17

Left In: 65.372+/-0.039 χ^2/NDF : 185222.5/1

Left: 69.083+/-0.028 χ^2/NDF : 302158.1/4

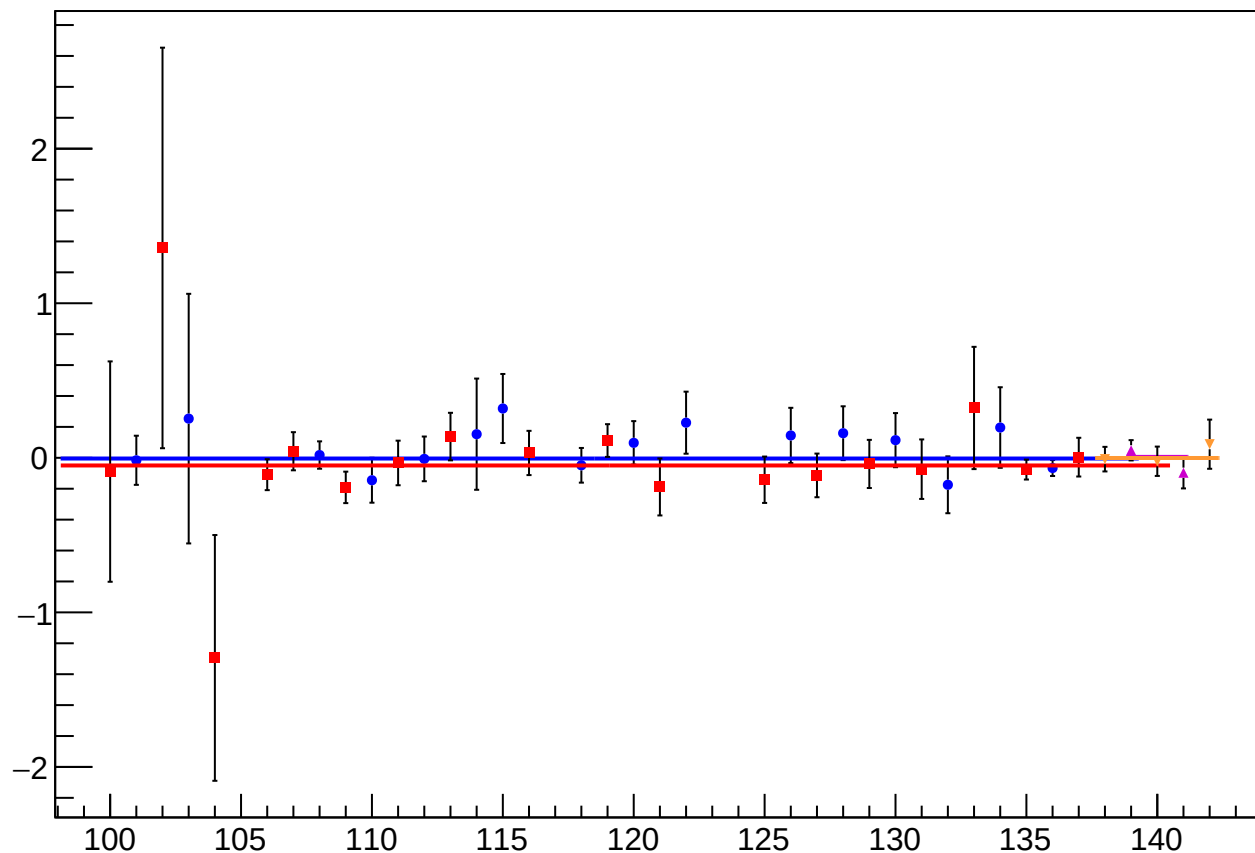
Right: 70.939+/-0.016 χ^2/NDF : 6206281.8/33

In: 71.234+/-0.020 χ^2/NDF : 3070113.8/17

Out: 69.742+/-0.020 χ^2/NDF : 3438751.0/20

All: 70.484+/-0.014 χ^2/NDF : 6511755.8/38

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.032 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -0.001 ± 0.057 $\chi^2/\text{NDF}: 0.4/2$

Right Out: -0.050 ± 0.032 $\chi^2/\text{NDF}: 13.0/17$

Left In: 0.006 ± 0.055 $\chi^2/\text{NDF}: 1.4/1$

Left: 0.003 ± 0.040 $\chi^2/\text{NDF}: 1.8/4$

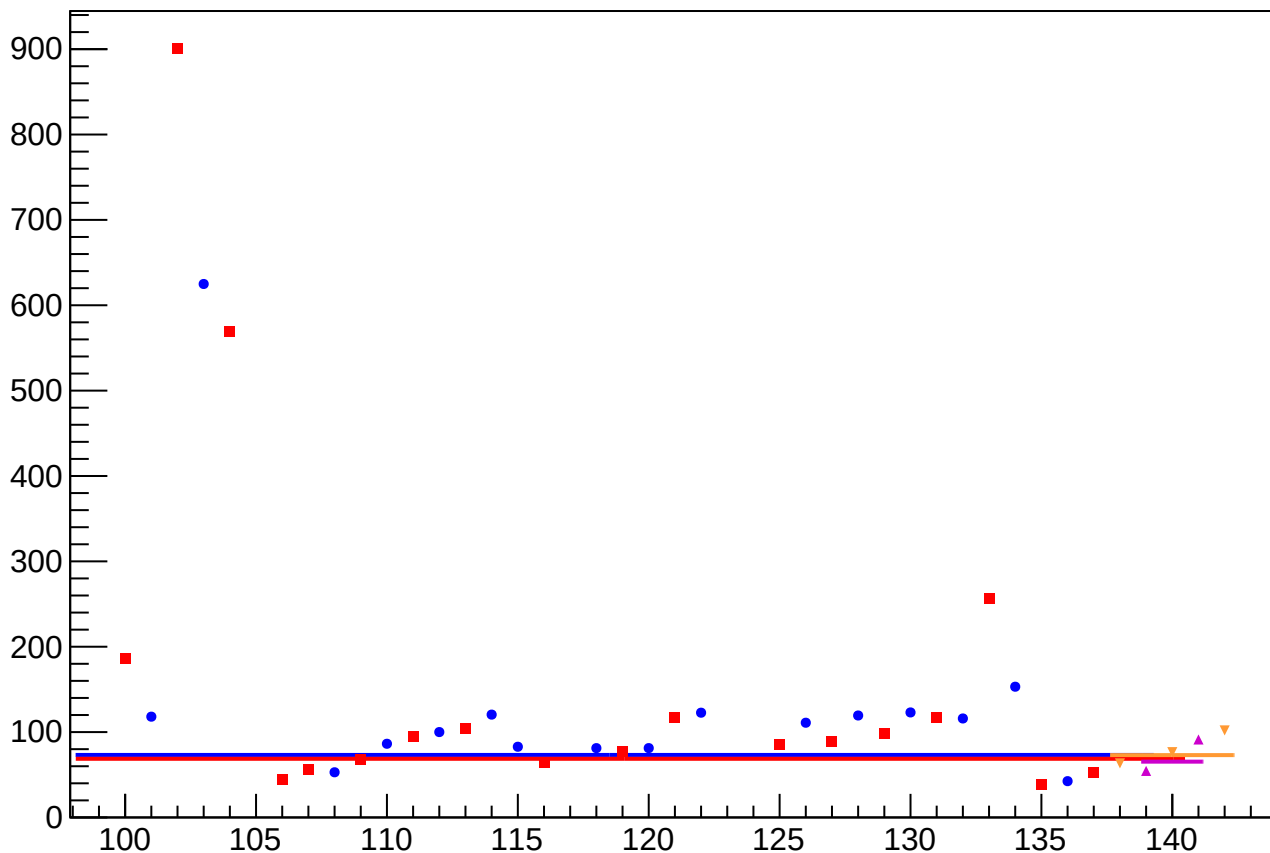
Right: -0.027 ± 0.023 $\chi^2/\text{NDF}: 24.3/33$

In: -0.002 ± 0.028 $\chi^2/\text{NDF}: 11.8/17$

Out: -0.038 ± 0.028 $\chi^2/\text{NDF}: 14.0/20$

All: -0.020 ± 0.020 $\chi^2/\text{NDF}: 26.6/38$

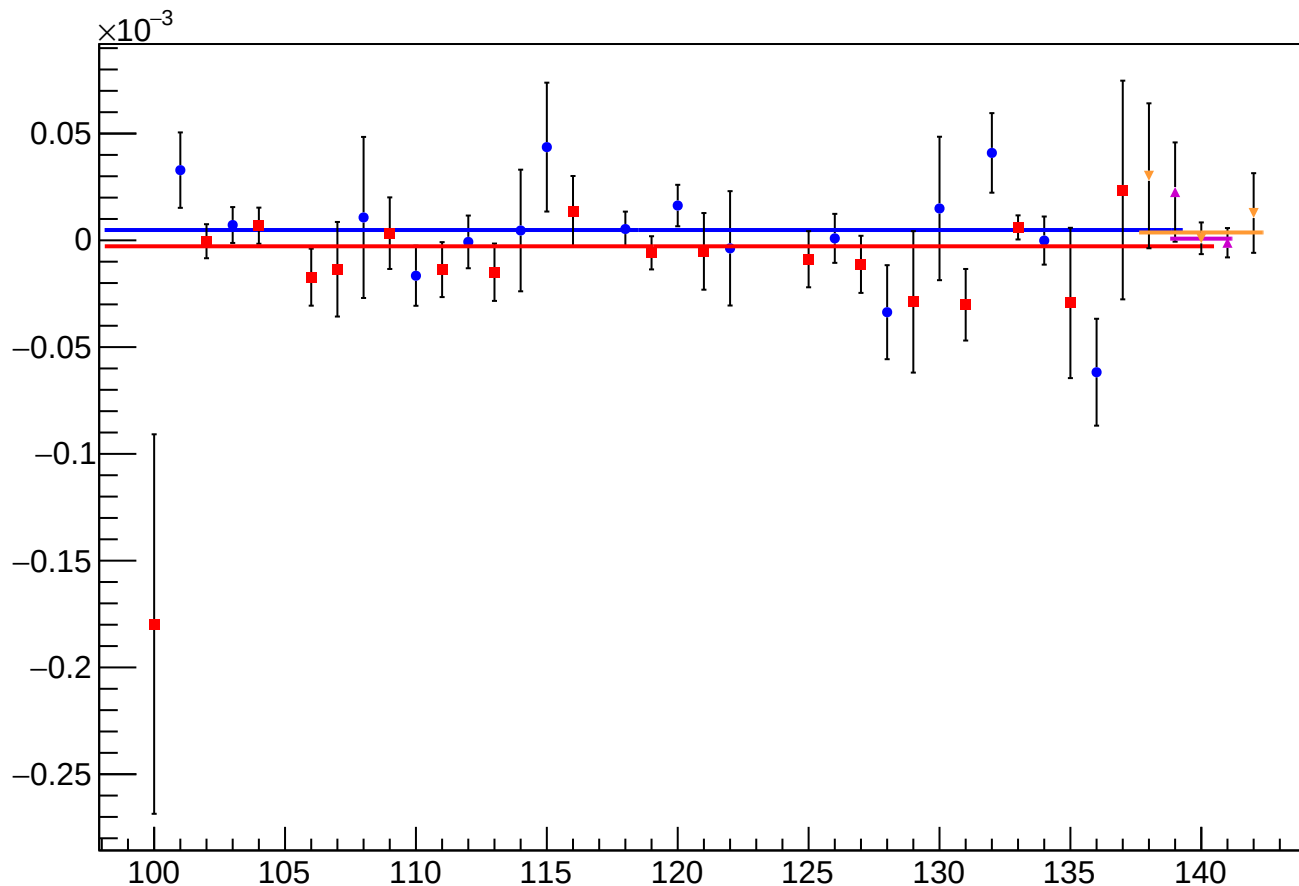
asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 73.234+/-0.023 χ^2/NDF : 2854601.2/15
 Left Out: 73.032+/-0.040 χ^2/NDF : 98255.4/2
 Right Out: 68.724+/-0.022 χ^2/NDF : 3331744.2/17
 Left In: 65.372+/-0.039 χ^2/NDF : 185222.5/1

Left: 69.083+/-0.028 χ^2/NDF : 302158.1/4
 Right: 70.939+/-0.016 χ^2/NDF : 6206281.8/33
 In: 71.234+/-0.020 χ^2/NDF : 3070113.8/17
 Out: 69.742+/-0.020 χ^2/NDF : 3438751.0/20
 All: 70.484+/-0.014 χ^2/NDF : 6511755.8/38

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :1.0/2

Right Out: -0.000+/-0.000 χ^2/NDF : 16.8/17

Left In: 0.000+/-0.000 χ^2/NDF :1.0/1

Left: 0.000+/-0.000 χ^2/NDF : 2.0/4

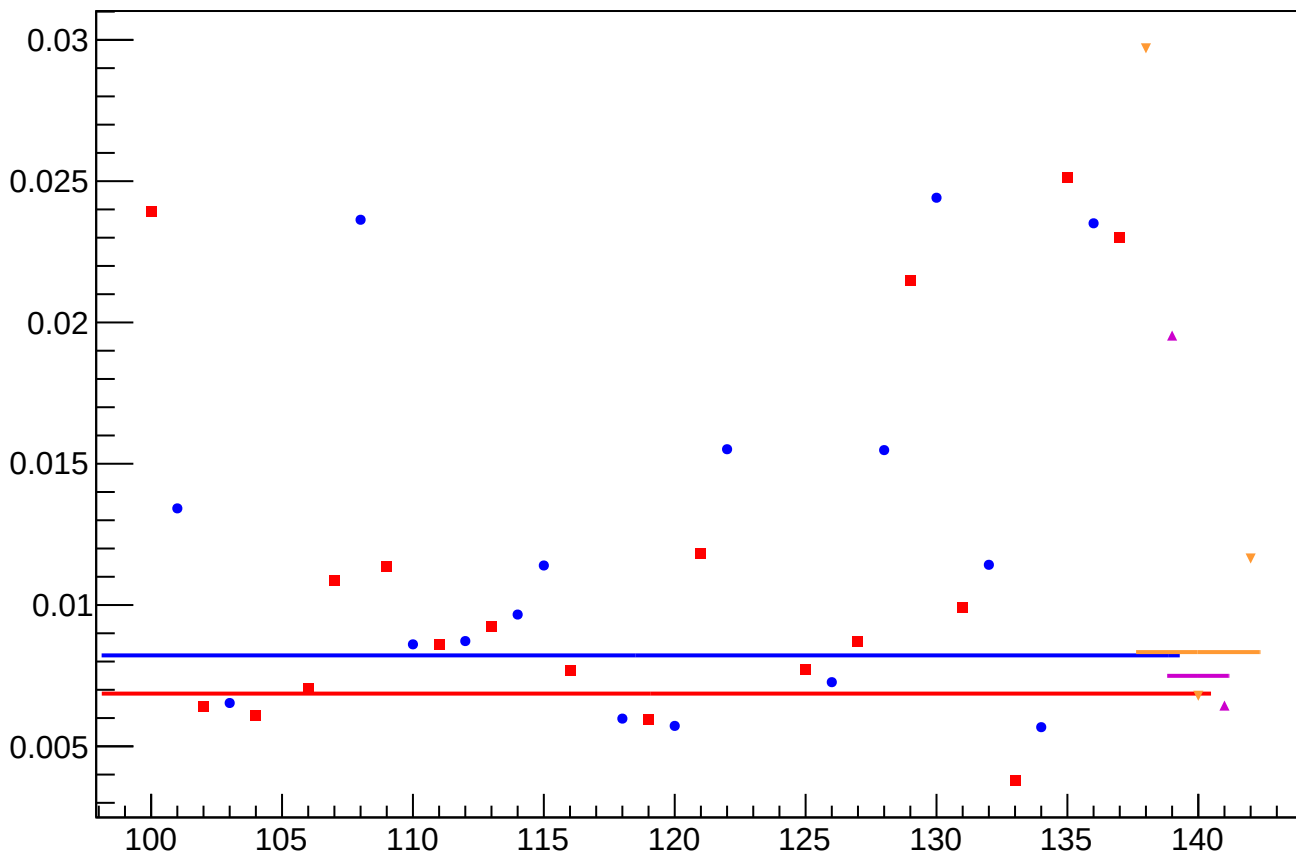
Right: 0.000+/-0.000 χ^2/NDF : 42.2/33

In: 0.000+/-0.000 χ^2/NDF :23.8/17

Out: -0.000+/-0.000 χ^2/NDF :18.5/20

All: 0.000+/-0.000 χ^2/NDF : 44.4/38

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2656170.2/15

Left Out: 0.008+/-0.000 χ^2/NDF :942813.1/2

Right Out: 0.007+/-0.000 χ^2/NDF : 2426444.0/17

Left In: 0.007+/-0.000 χ^2/NDF :583996.4/1

Left: 0.008+/-0.000 χ^2/NDF : 1542666.1/4

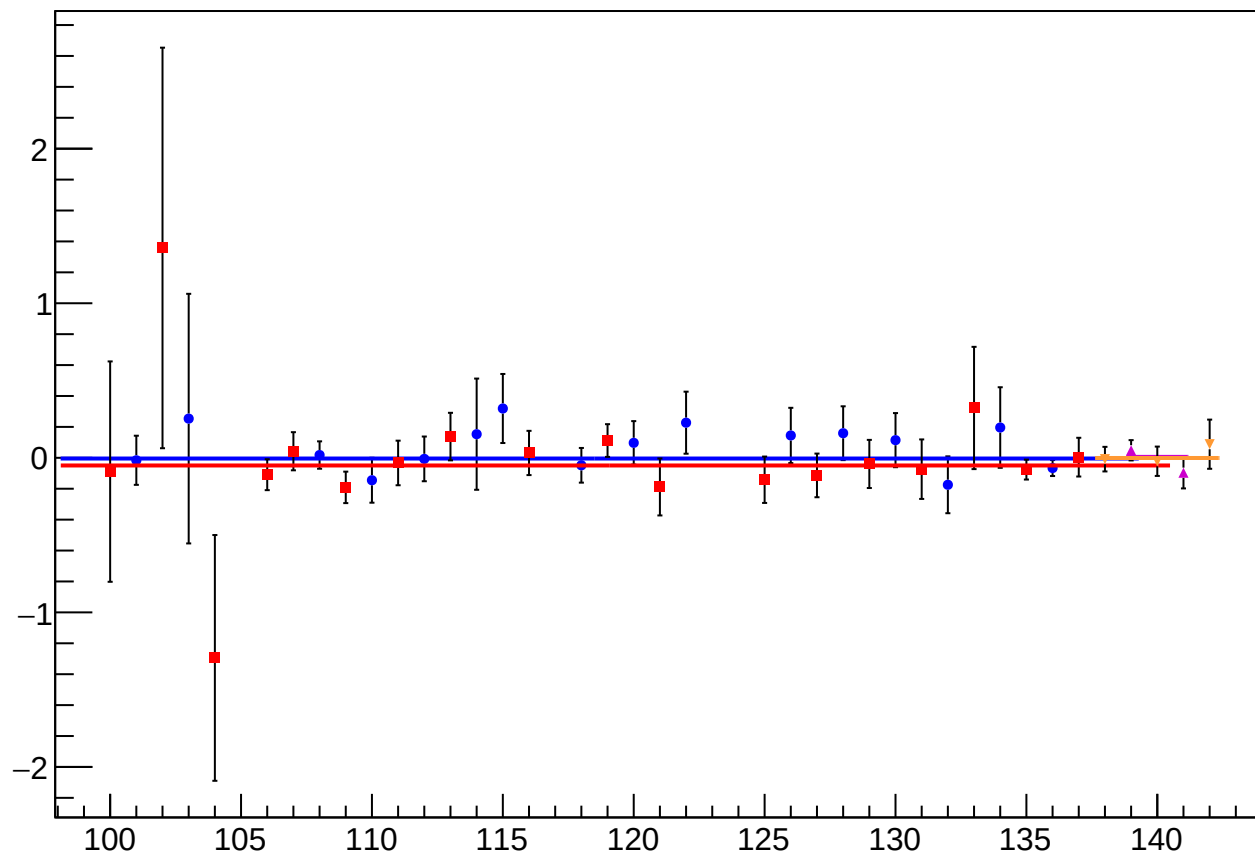
Right: 0.007+/-0.000 χ^2/NDF : 5263403.5/33

In: 0.008+/-0.000 χ^2/NDF :3259000.7/17

Out: 0.007+/-0.000 χ^2/NDF :3449635.1/20

All: 0.007+/-0.000 χ^2/NDF : 6824592.6/38

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.032 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -0.001 ± 0.057 $\chi^2/\text{NDF}: 0.4/2$

Right Out: -0.050 ± 0.032 $\chi^2/\text{NDF}: 13.0/17$

Left In: 0.006 ± 0.055 $\chi^2/\text{NDF}: 1.4/1$

Left: 0.003 ± 0.040 $\chi^2/\text{NDF}: 1.8/4$

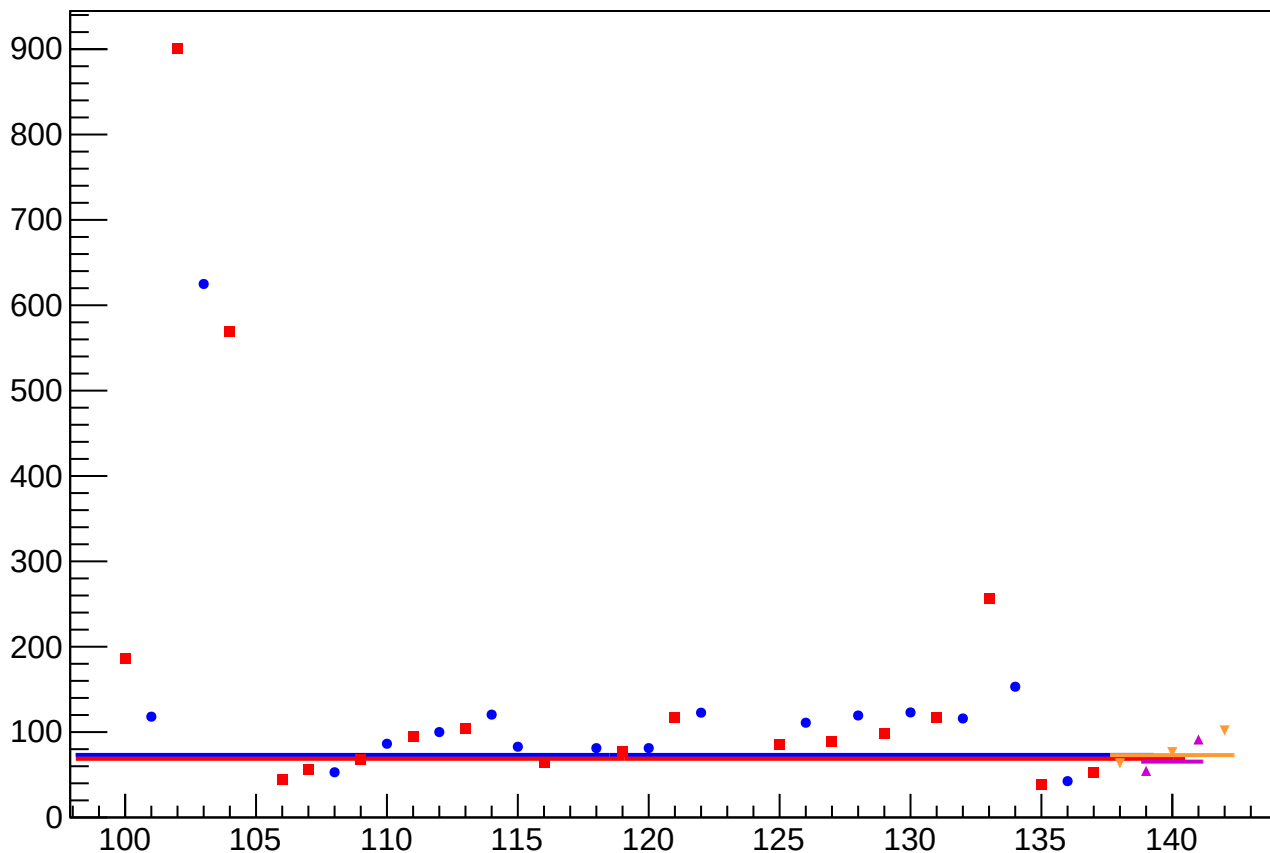
Right: -0.027 ± 0.023 $\chi^2/\text{NDF}: 24.3/33$

In: -0.002 ± 0.028 $\chi^2/\text{NDF}: 11.8/17$

Out: -0.038 ± 0.028 $\chi^2/\text{NDF}: 14.0/20$

All: -0.020 ± 0.020 $\chi^2/\text{NDF}: 26.6/38$

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 73.260 $\pm$ 0.023 χ^2 /NDF: 2852306.8/15

Left Out: 73.042 $\pm$ 0.040 χ^2 /NDF:98224.9/2

Right Out: 68.713 $\pm$ 0.022 χ^2 /NDF: 3332744.7/17

Left In: 65.385 $\pm$ 0.039 χ^2 /NDF:185097.6/1

Left: 69.094 $\pm$ 0.028 χ^2 /NDF: 301984.8/4

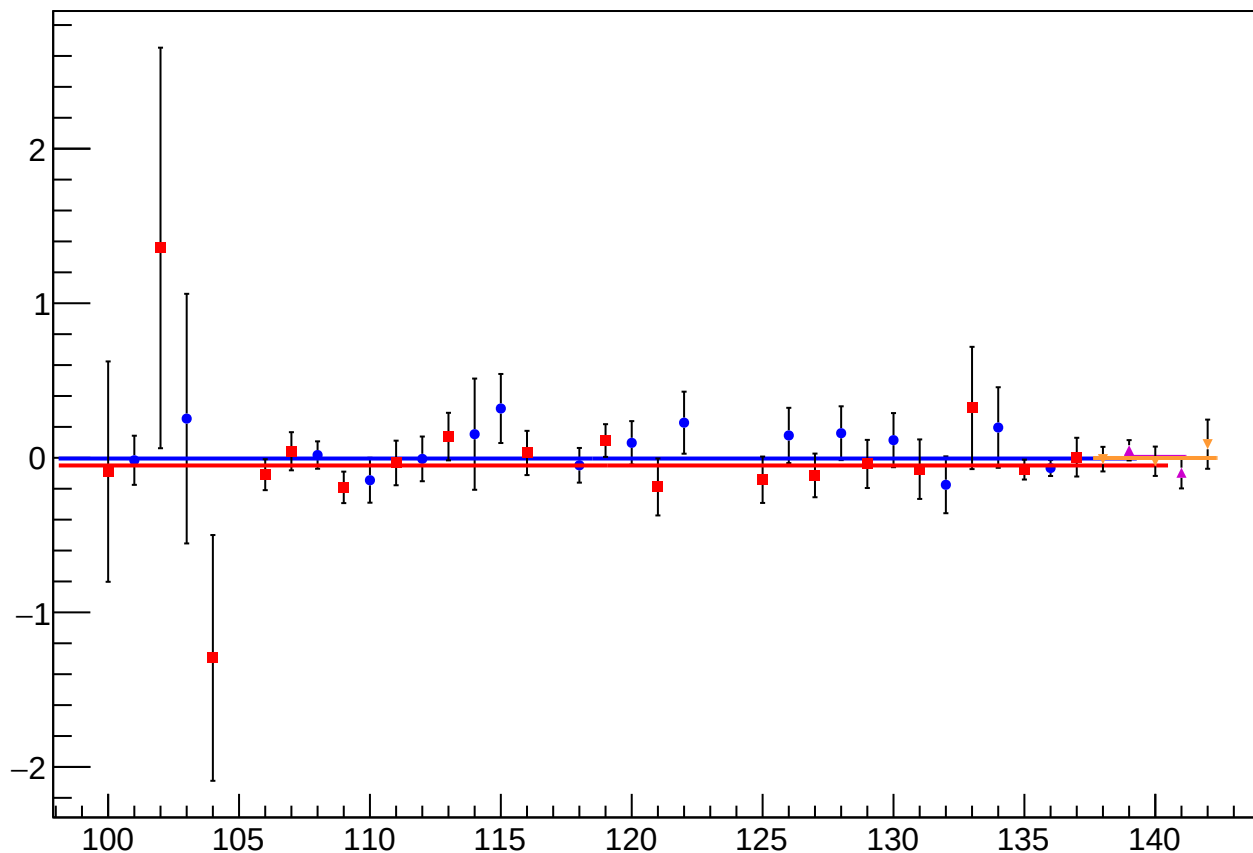
Right: 70.945 $\pm$ 0.016 χ^2 /NDF: 6205307.5/33

In: 71.256 $\pm$ 0.020 χ^2 /NDF:3067780.8/17

Out: 69.736 $\pm$ 0.020 χ^2 /NDF:3439805.9/20

All: 70.491 $\pm$ 0.014 χ^2 /NDF: 6510587.8/38

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.032 χ^2/NDF : 10.3/15

Left Out: -0.001 ± 0.057 χ^2/NDF : 0.4/2

Right Out: -0.050 ± 0.032 χ^2/NDF : 13.0/17

Left In: 0.006 ± 0.055 χ^2/NDF : 1.4/1

Left: 0.003 ± 0.040 χ^2/NDF : 1.8/4

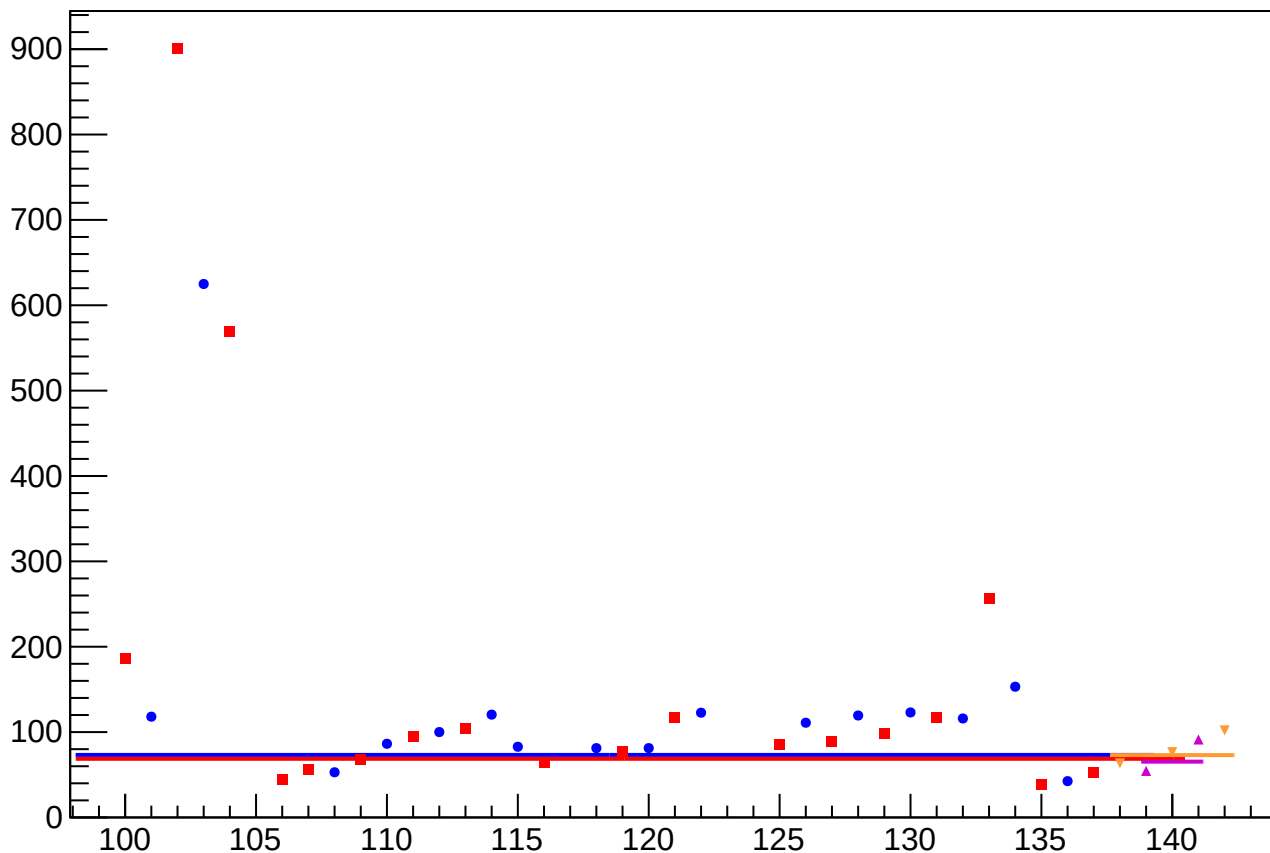
Right: -0.027 ± 0.023 χ^2/NDF : 24.3/33

In: -0.002 ± 0.028 χ^2/NDF : 11.8/17

Out: -0.038 ± 0.028 χ^2/NDF : 14.0/20

All: -0.020 ± 0.020 χ^2/NDF : 26.6/38

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 73.260+/-0.023 χ^2/NDF : 2852306.8/15

Left Out: 73.042+/-0.040 χ^2/NDF : 98224.9/2

Right Out: 68.713+/-0.022 χ^2/NDF : 3332744.7/17

Left In: 65.385+/-0.039 χ^2/NDF : 185097.6/1

Left: 69.094+/-0.028 χ^2/NDF : 301984.8/4

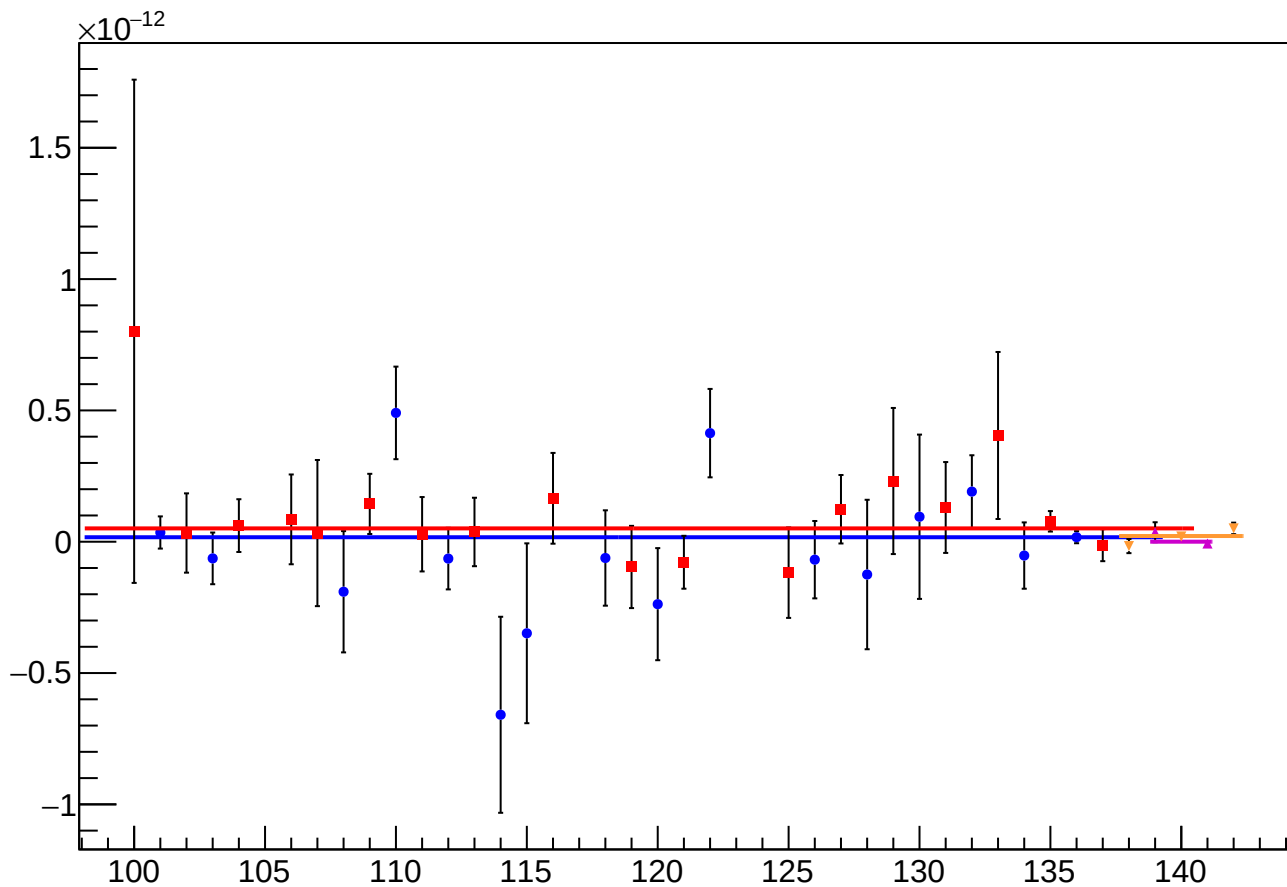
Right: 70.945+/-0.016 χ^2/NDF : 6205307.5/33

In: 71.256+/-0.020 χ^2/NDF : 3067780.8/17

Out: 69.736+/-0.020 χ^2/NDF : 3439805.9/20

All: 70.491+/-0.014 χ^2/NDF : 6510587.8/38

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 9.1/17

Left In: 0.000+/-0.000 χ^2/NDF : 1.1/1

Left: 0.000+/-0.000 χ^2/NDF : 6.1/4

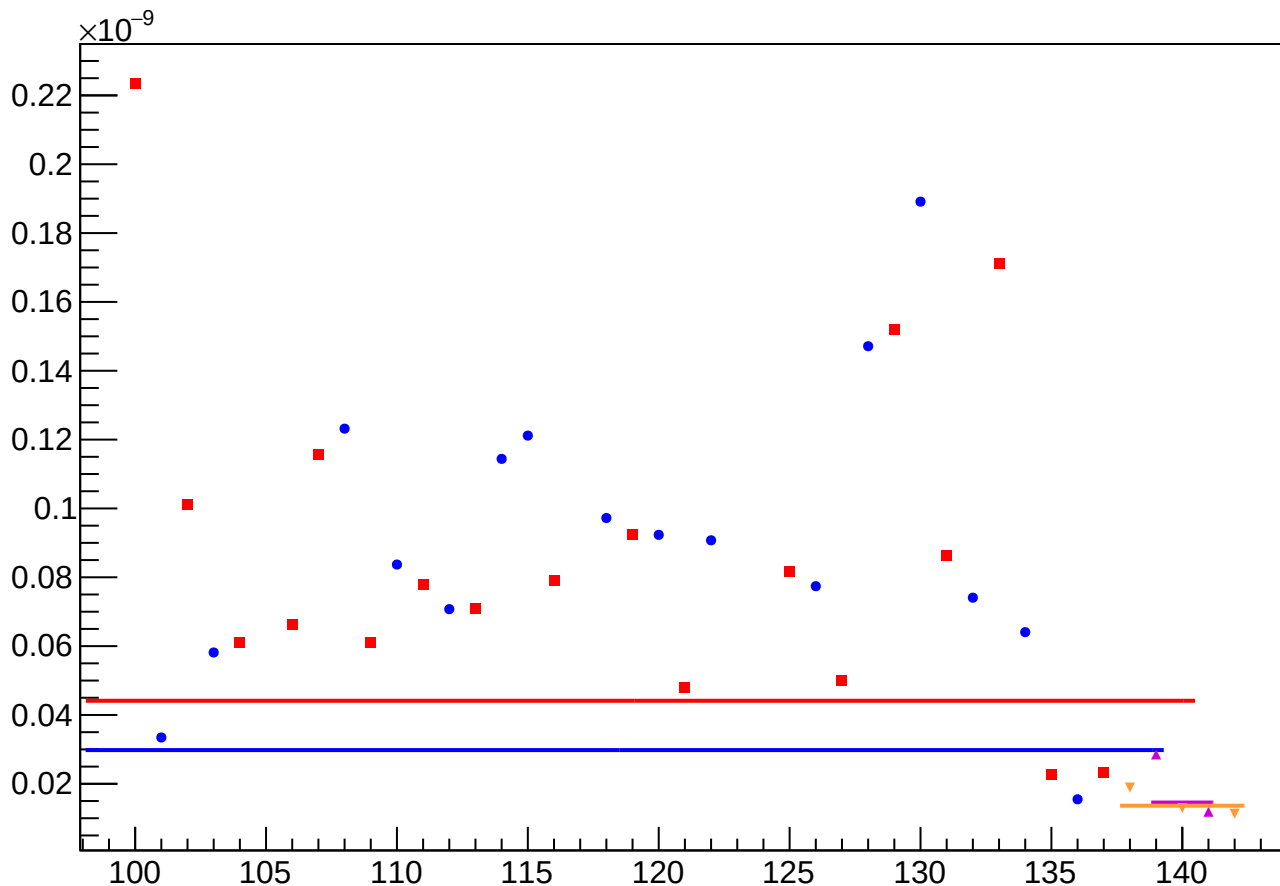
Right: 0.000+/-0.000 χ^2/NDF : 33.6/33

In: 0.000+/-0.000 χ^2/NDF : 24.9/17

Out: 0.000+/-0.000 χ^2/NDF : 14.0/20

All: 0.000+/-0.000 χ^2/NDF : 40.5/38

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 $\chi^2/\text{NDF}: 4079776.1/15$

Left Out: 0.000+/-0.000 $\chi^2/\text{NDF}: 103154.3/2$

Right Out: 0.000+/-0.000 $\chi^2/\text{NDF}: 2779318.5/17$

Left In: 0.000+/-0.000 $\chi^2/\text{NDF}: 322762.3/1$

Left: 0.000+/-0.000 $\chi^2/\text{NDF}: 430497.6/4$

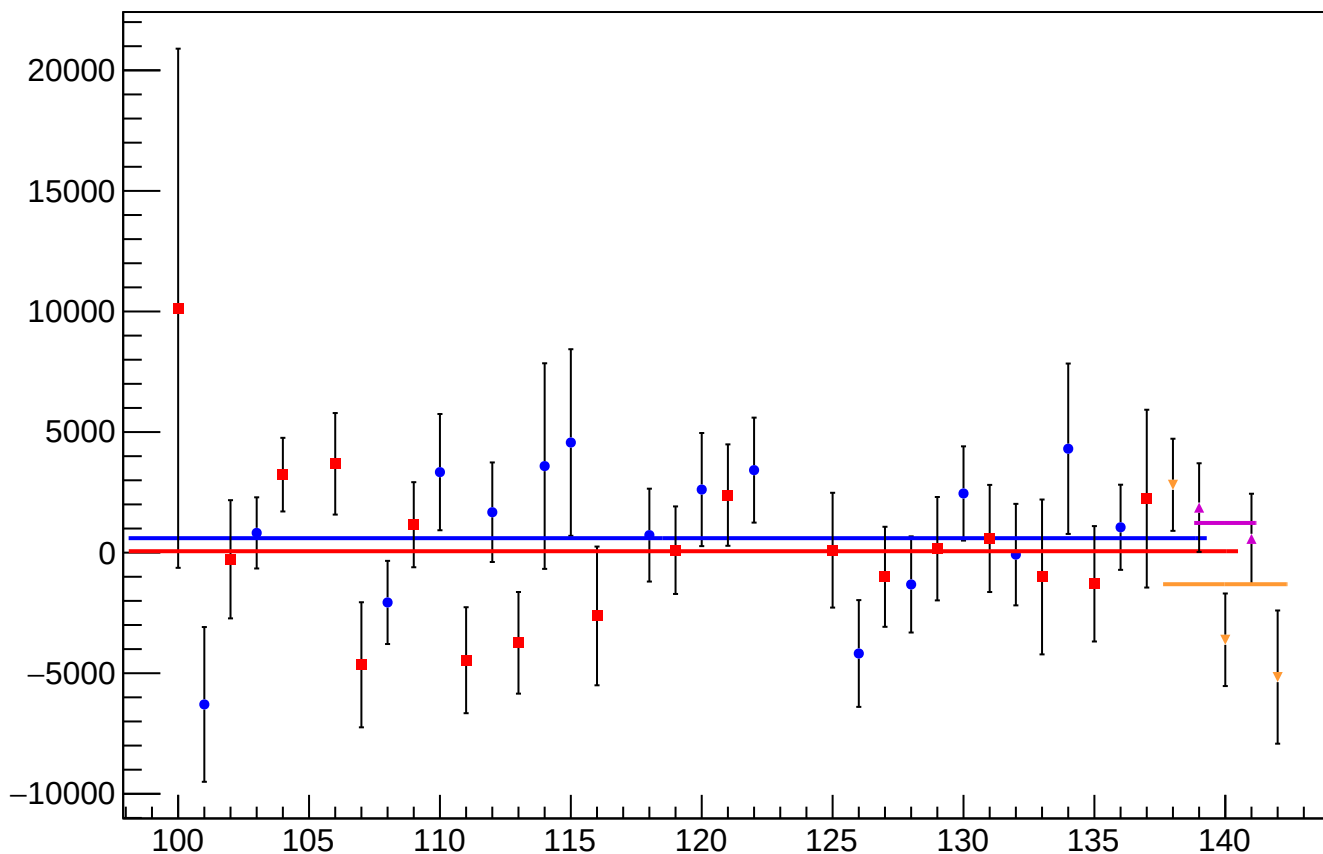
Right: 0.000+/-0.000 $\chi^2/\text{NDF}: 7274202.8/33$

In: 0.000+/-0.000 $\chi^2/\text{NDF}: 5169738.0/17$

Out: 0.000+/-0.000 $\chi^2/\text{NDF}: 5341356.7/20$

All: 0.000+/-0.000 $\chi^2/\text{NDF}: 10519625.8/38$

reg_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 600.146+/-540.053 χ^2/NDF : 20.3/15

Left Out: -1308.671+/-1215.536 χ^2/NDF : 8.0/2

Right Out: 59.091+/-530.206 χ^2/NDF : 22.5/17

Left In: 1231.079+/-1311.336 χ^2/NDF : 0.2/1

Left: -134.946+/-891.460 χ^2/NDF : 10.3/4

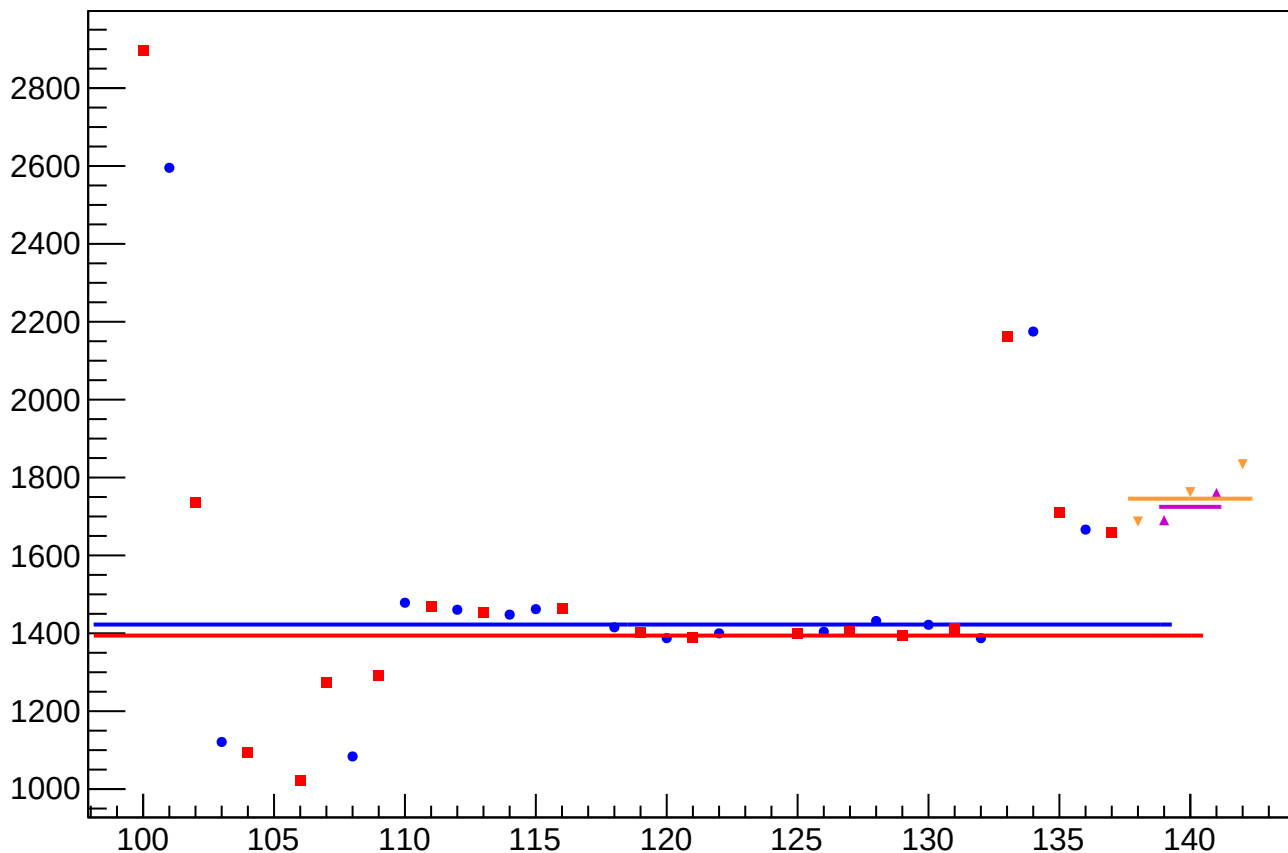
Right: 324.641+/-378.346 χ^2/NDF : 43.4/33

In: 691.639+/-499.363 χ^2/NDF : 20.8/17

Out: -159.545+/-485.985 χ^2/NDF : 31.7/20

All: 254.493+/-348.277 χ^2/NDF : 53.9/38

reg_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1422.515+/-0.382 χ^2/NDF : 560259.3/15

Left Out: 1745.740+/-0.860 χ^2/NDF : 4094.1/2

Right Out: 1394.171+/-0.375 χ^2/NDF : 393666.0/17

Left In: 1724.705+/-0.927 χ^2/NDF : 1414.0/1

Left: 1736.019+/-0.630 χ^2/NDF : 5784.9/4

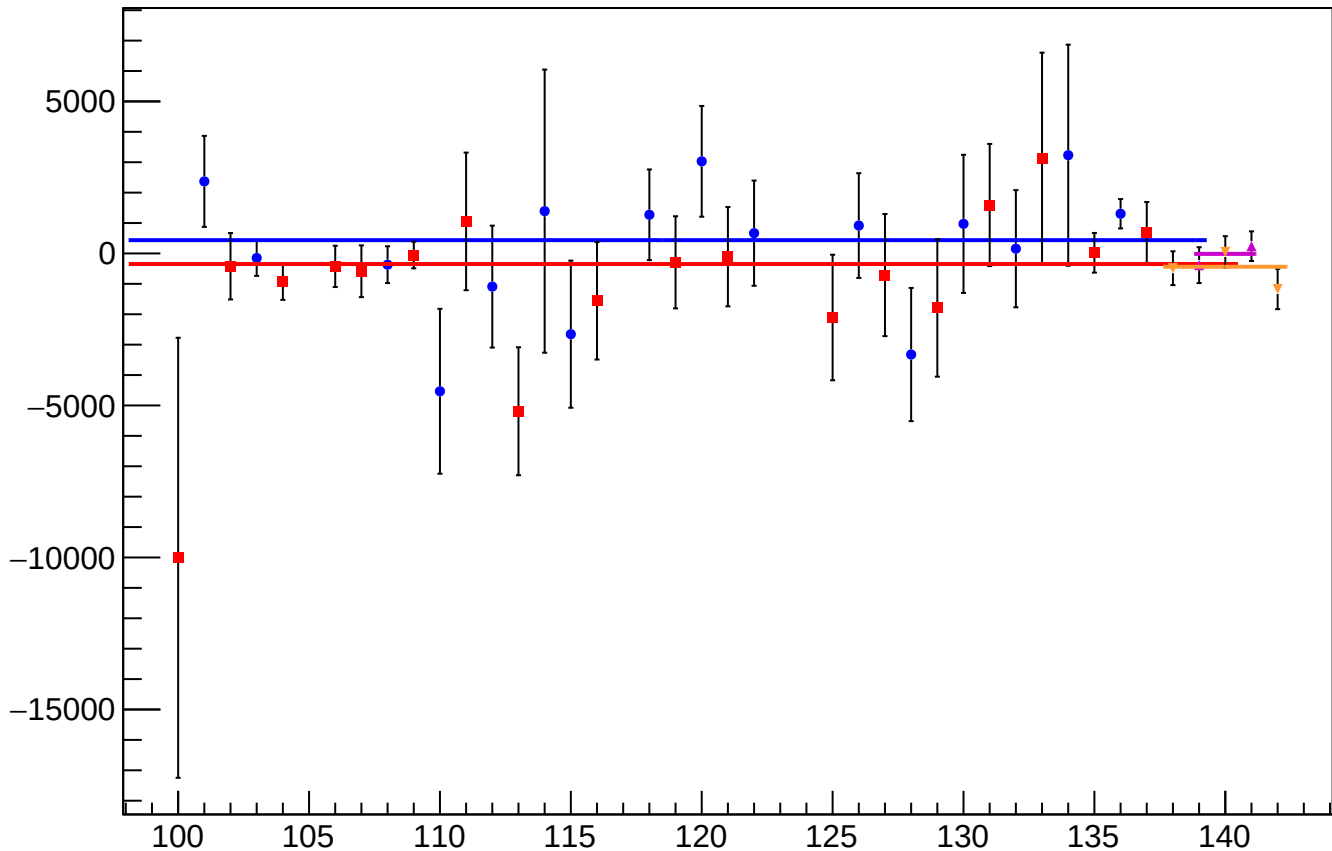
Right: 1408.082+/-0.268 χ^2/NDF : 956730.5/33

In: 1466.336+/-0.353 χ^2/NDF : 652481.0/17

Out: 1450.369+/-0.344 χ^2/NDF : 538324.2/20

All: 1458.135+/-0.246 χ^2/NDF : 1191855.4/38

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 436.509 $\pm$ 275.917 χ^2 /NDF: 19.3/15

Left Out: -438.269 $\pm$ 328.957 χ^2 /NDF:2.1/2

Right Out: -348.567 $\pm$ 233.745 χ^2 /NDF: 13.9/17

Left In: -14.734 $\pm$ 375.745 χ^2 /NDF:0.7/1

Left: -254.498 $\pm$ 247.507 χ^2 /NDF: 3.5/4

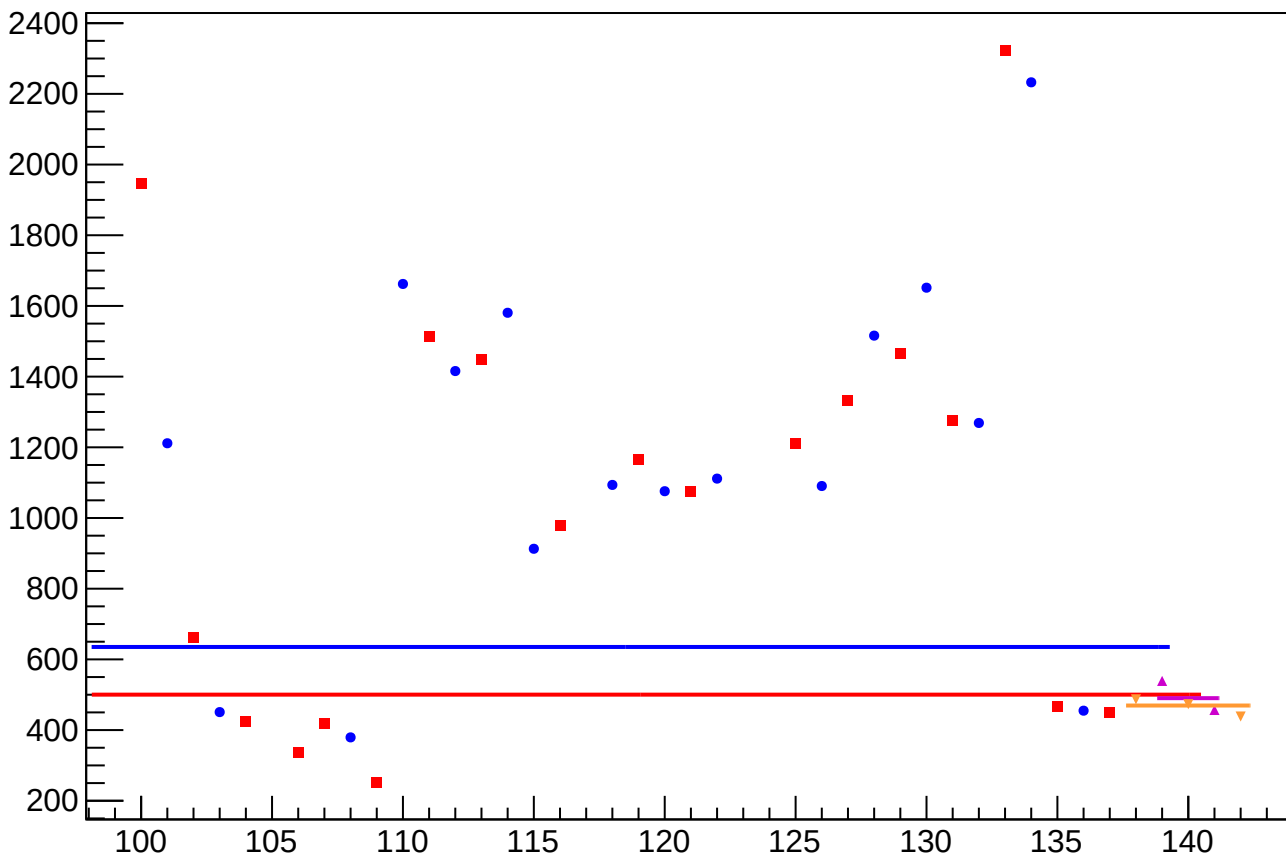
Right: -20.548 $\pm$ 178.349 χ^2 /NDF: 38.0/33

In: 278.429 $\pm$ 222.396 χ^2 /NDF:20.9/17

Out: -378.662 $\pm$ 190.541 χ^2 /NDF:16.1/20

All: -100.507 $\pm$ 144.696 χ^2 /NDF: 42.1/38

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 635.135 $\pm$ 0.195 χ^2/NDF : 3752583.4/15

Left Out: 469.450 $\pm$ 0.233 χ^2/NDF : 6517.1/2

Right Out: 500.231 $\pm$ 0.165 χ^2/NDF : 4309093.1/17

Left In: 490.299 $\pm$ 0.266 χ^2/NDF : 23065.0/1

Left: 478.497 $\pm$ 0.175 χ^2/NDF : 33068.0/4

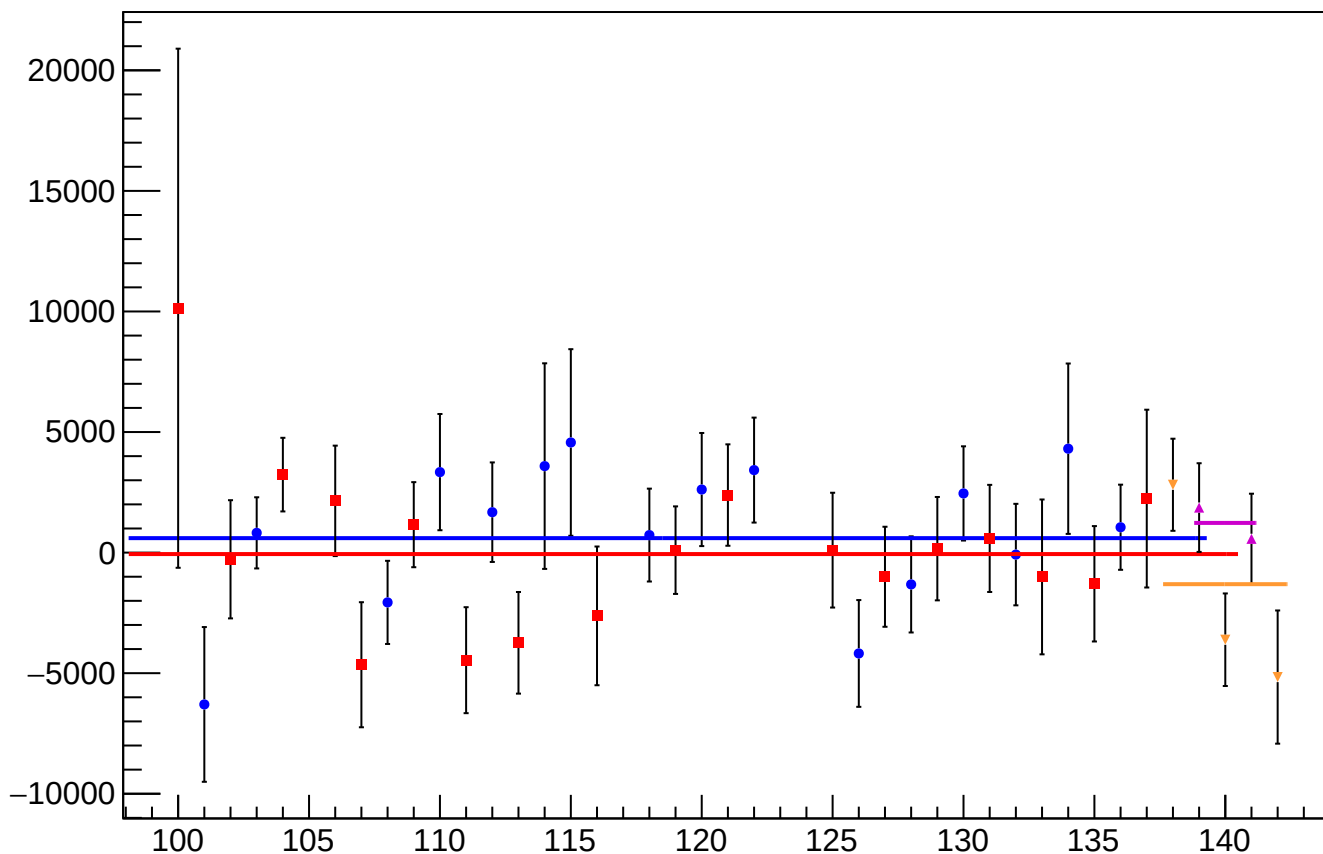
Right: 556.596 $\pm$ 0.126 χ^2/NDF : 8340019.1/33

In: 584.396 $\pm$ 0.157 χ^2/NDF : 3968708.0/17

Out: 489.904 $\pm$ 0.135 χ^2/NDF : 4327246.4/20

All: 529.904 $\pm$ 0.102 χ^2/NDF : 8504164.8/38

cor_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 600.020+/-540.053 χ^2/NDF : 20.3/15

Left Out: -1308.953+/-1215.536 χ^2/NDF : 8.0/2

Right Out: -60.361+/-532.826 χ^2/NDF : 20.4/17

Left In: 1231.240+/-1311.336 χ^2/NDF : 0.2/1

Left: -135.024+/-891.460 χ^2/NDF : 10.3/4

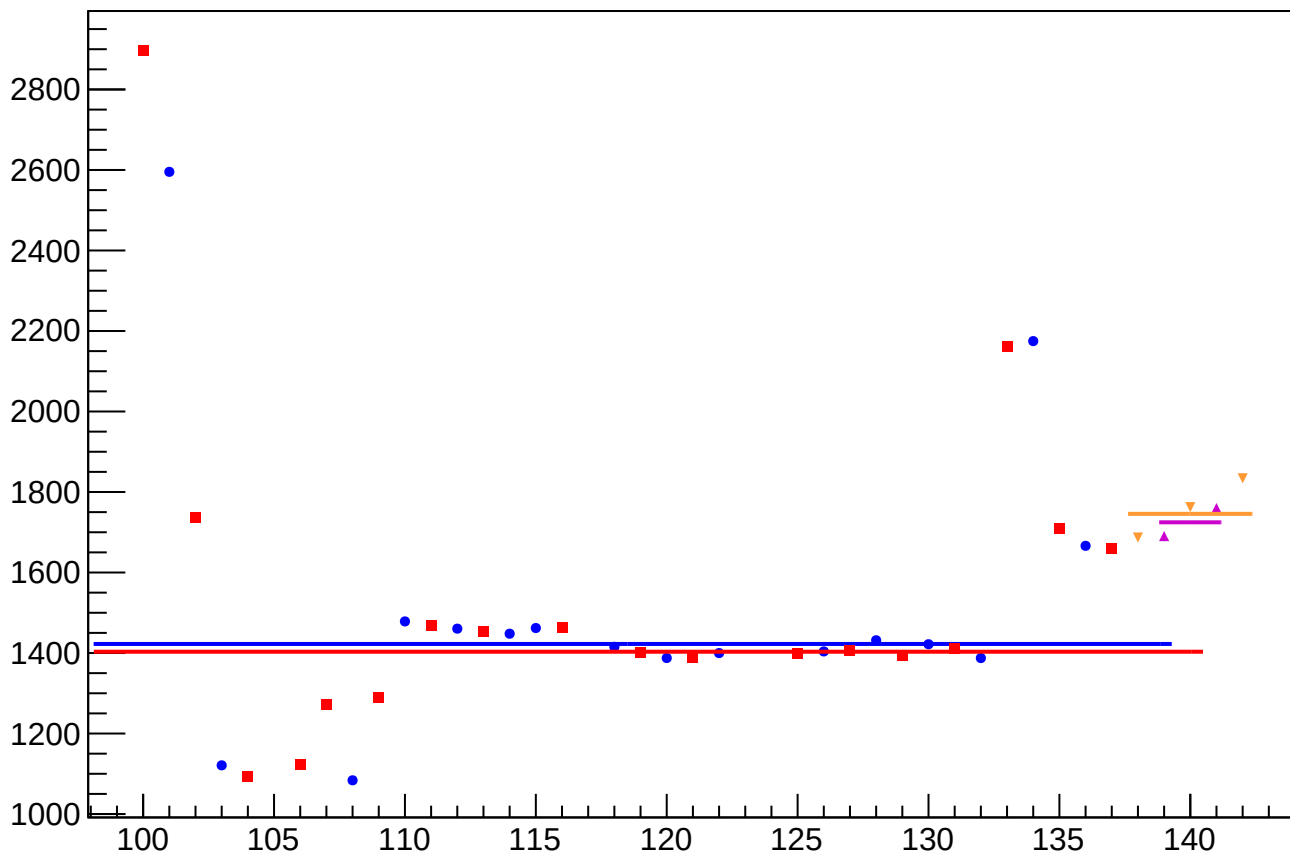
Right: 265.381+/-379.294 χ^2/NDF : 41.4/33

In: 691.554+/-499.363 χ^2/NDF : 20.8/17

Out: -261.606+/-488.001 χ^2/NDF : 29.3/20

All: 204.007+/-349.017 χ^2/NDF : 51.9/38

cor_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1422.515+/-0.382 χ^2/NDF : 560259.5/15

Left Out: 1745.740+/-0.860 χ^2/NDF : 4094.1/2

Right Out: 1403.220+/-0.377 χ^2/NDF : 359113.5/17

Left In: 1724.705+/-0.927 χ^2/NDF : 1414.0/1

Left: 1736.019+/-0.630 χ^2/NDF : 5784.9/4

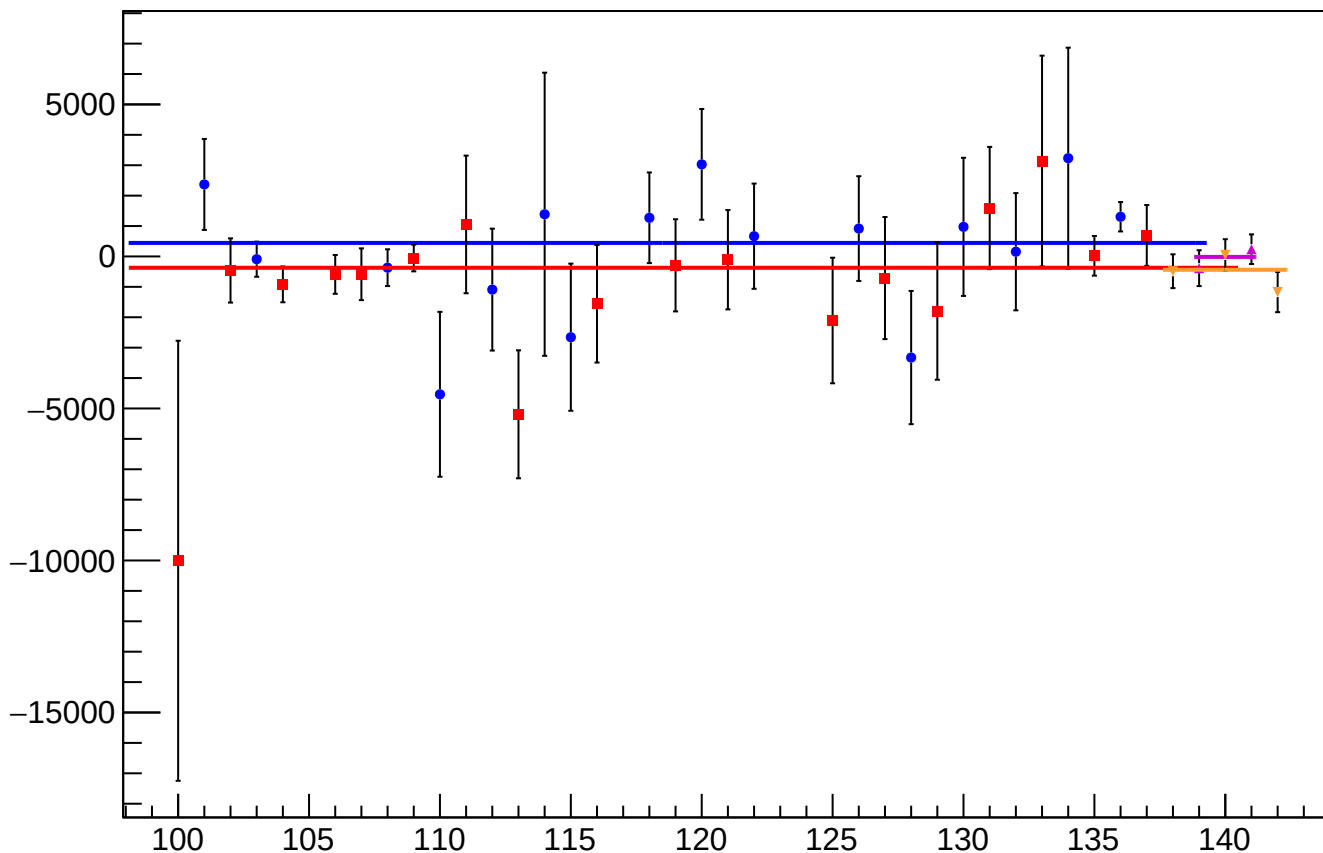
Right: 1412.737+/-0.268 χ^2/NDF : 920666.7/33

In: 1466.336+/-0.353 χ^2/NDF : 652481.3/17

Out: 1458.426+/-0.345 χ^2/NDF : 496418.0/20

All: 1462.290+/-0.247 χ^2/NDF : 1149155.9/38

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 445.121+/-274.737 χ^2/NDF : 19.2/15

Left Out: -438.460+/-328.977 χ^2/NDF : 2.1/2

Right Out: -372.538+/-231.353 χ^2/NDF : 14.0/17

Left In: -14.984+/-375.737 χ^2/NDF : 0.7/1

Left: -254.698+/-247.513 χ^2/NDF : 3.5/4

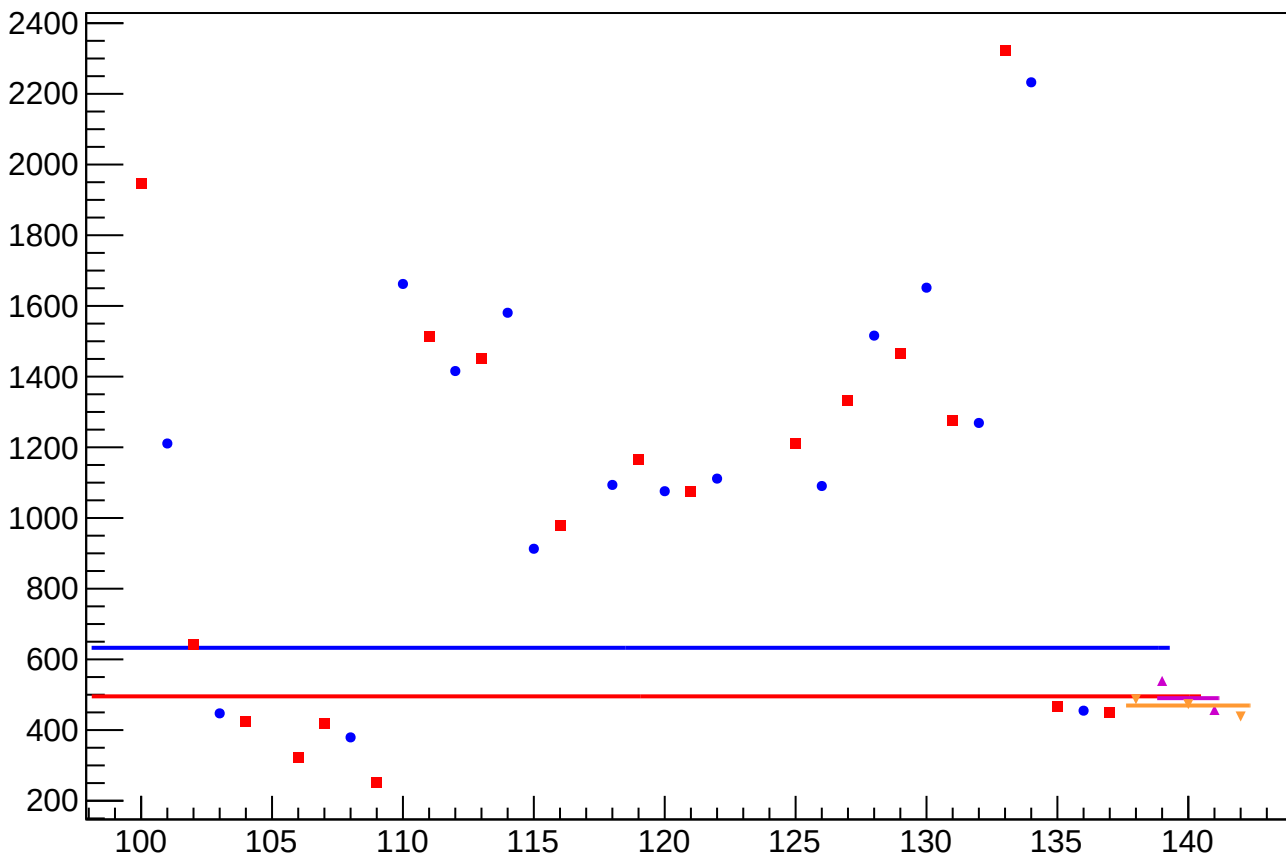
Right: -33.290+/-176.966 χ^2/NDF : 38.4/33

In: 284.828+/-221.775 χ^2/NDF : 20.8/17

Out: -394.352+/-189.242 χ^2/NDF : 16.1/20

All: -108.186+/-143.956 χ^2/NDF : 42.4/38

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 632.753+/-0.194 χ^2/NDF : 3767731.7/15

Left Out: 469.481+/-0.233 χ^2/NDF : 6503.0/2

Right Out: 495.380+/-0.164 χ^2/NDF : 4337484.8/17

Left In: 490.287+/-0.266 χ^2/NDF : 23070.6/1

Left: 478.509+/-0.175 χ^2/NDF : 33045.2/4

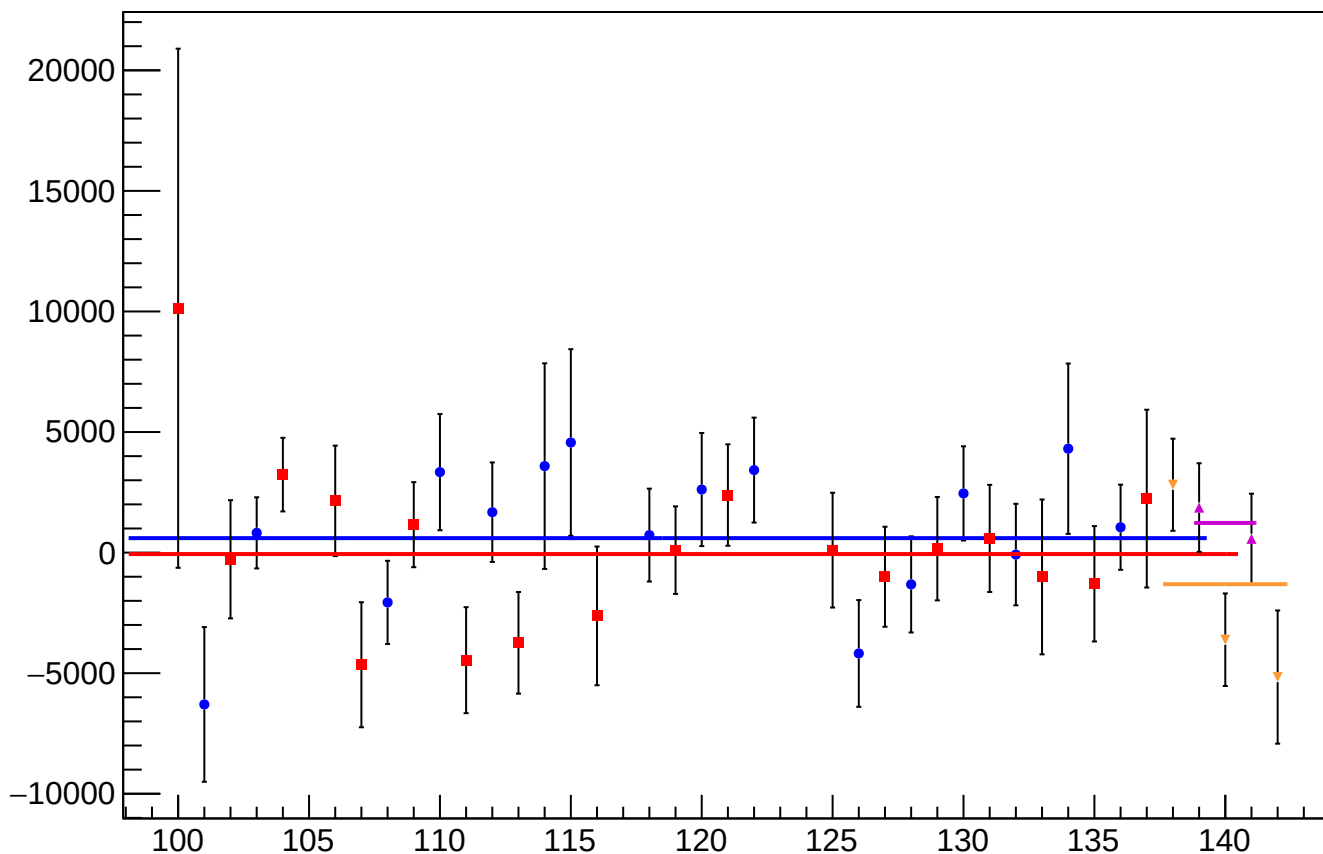
Right: 552.376+/-0.125 χ^2/NDF : 8397783.6/33

In: 583.120+/-0.157 χ^2/NDF : 3978160.1/17

Out: 486.810+/-0.134 χ^2/NDF : 4352281.7/20

All: 527.389+/-0.102 χ^2/NDF : 8548701.1/38

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 600.020+/-540.053 χ^2/NDF : 20.3/15

Left Out: -1308.953+/-1215.536 χ^2/NDF : 8.0/2

Right Out: -60.361+/-532.826 χ^2/NDF : 20.4/17

Left In: 1231.240+/-1311.336 χ^2/NDF : 0.2/1

Left: -135.024+/-891.460 χ^2/NDF : 10.3/4

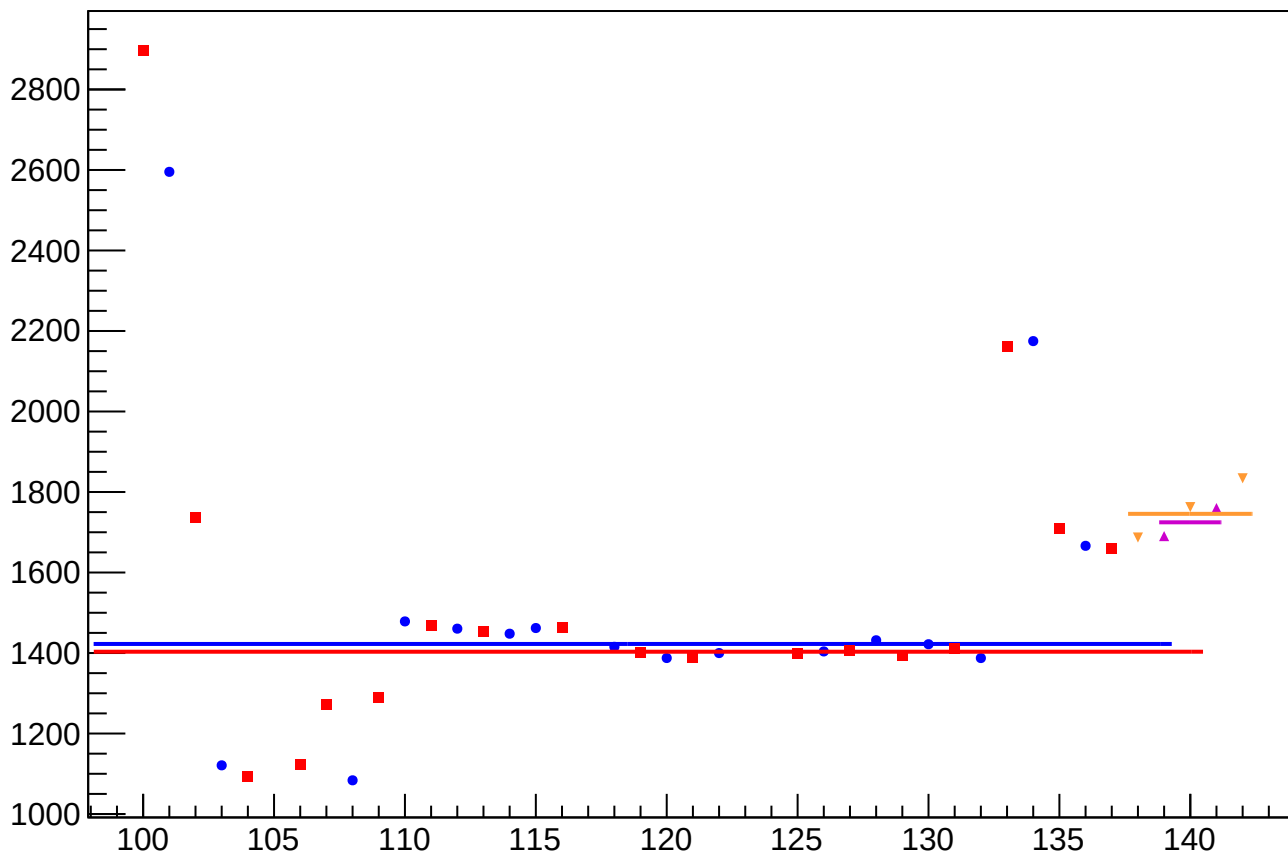
Right: 265.381+/-379.294 χ^2/NDF : 41.4/33

In: 691.554+/-499.363 χ^2/NDF : 20.8/17

Out: -261.606+/-488.001 χ^2/NDF : 29.3/20

All: 204.007+/-349.017 χ^2/NDF : 51.9/38

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1422.515+/-0.382 χ^2/NDF : 560259.5/15

Left Out: 1745.740+/-0.860 χ^2/NDF : 4094.1/2

Right Out: 1403.220+/-0.377 χ^2/NDF : 359113.5/17

Left In: 1724.705+/-0.927 χ^2/NDF : 1414.0/1

Left: 1736.019+/-0.630 χ^2/NDF : 5784.9/4

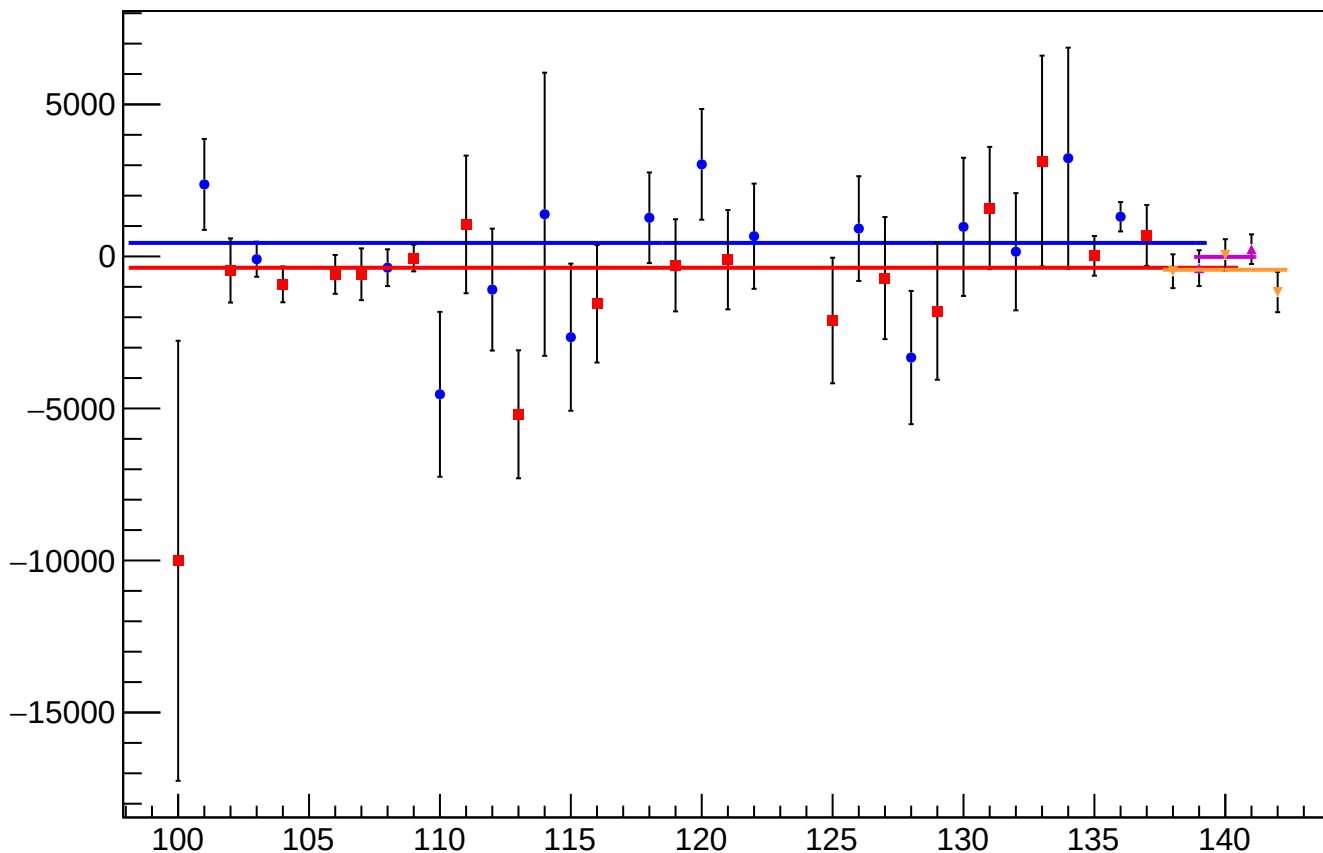
Right: 1412.737+/-0.268 χ^2/NDF : 920666.7/33

In: 1466.336+/-0.353 χ^2/NDF : 652481.3/17

Out: 1458.426+/-0.345 χ^2/NDF : 496418.0/20

All: 1462.290+/-0.247 χ^2/NDF : 1149155.9/38

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 445.121+/-274.737 χ^2/NDF : 19.2/15

Left Out: -438.460+/-328.977 χ^2/NDF : 2.1/2

Right Out: -372.538+/-231.353 χ^2/NDF : 14.0/17

Left In: -14.984+/-375.737 χ^2/NDF : 0.7/1

Left: -254.698+/-247.513 χ^2/NDF : 3.5/4

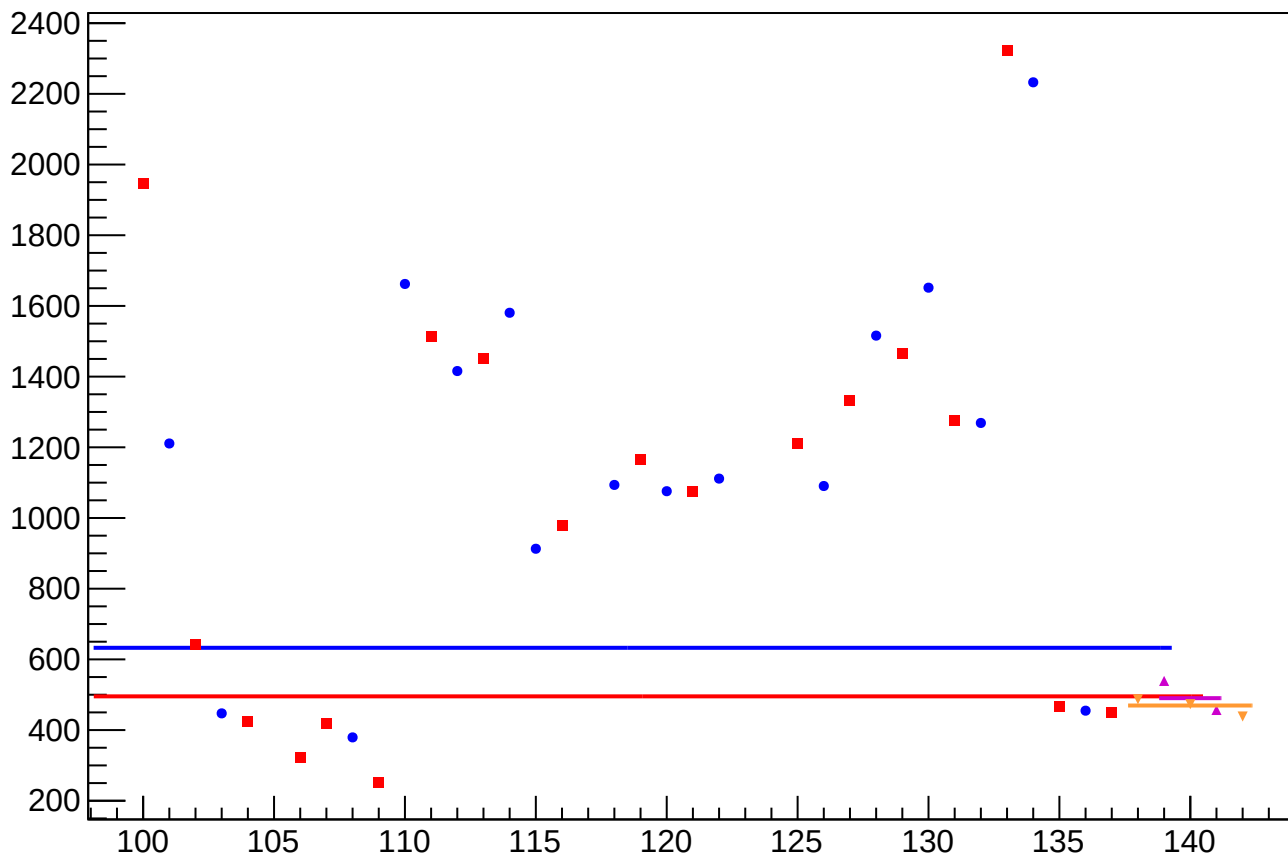
Right: -33.290+/-176.966 χ^2/NDF : 38.4/33

In: 284.828+/-221.775 χ^2/NDF : 20.8/17

Out: -394.352+/-189.242 χ^2/NDF : 16.1/20

All: -108.186+/-143.956 χ^2/NDF : 42.4/38

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 632.753+/-0.194 χ^2/NDF : 3767731.7/15

Left Out: 469.481+/-0.233 χ^2/NDF : 6503.0/2

Right Out: 495.380+/-0.164 χ^2/NDF : 4337484.8/17

Left In: 490.287+/-0.266 χ^2/NDF : 23070.6/1

Left: 478.509+/-0.175 χ^2/NDF : 33045.2/4

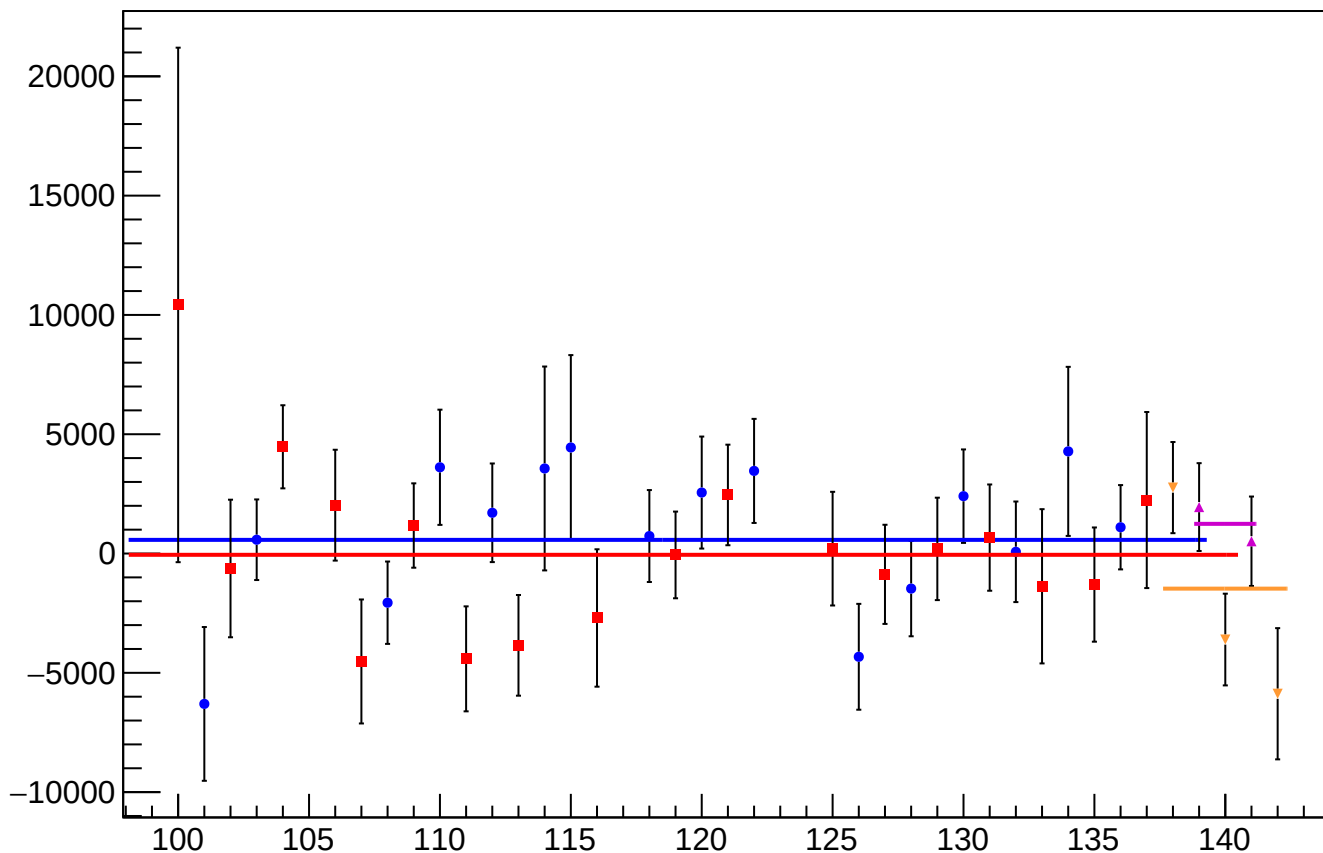
Right: 552.376+/-0.125 χ^2/NDF : 8397783.6/33

In: 583.120+/-0.157 χ^2/NDF : 3978160.1/17

Out: 486.810+/-0.134 χ^2/NDF : 4352281.7/20

All: 527.389+/-0.102 χ^2/NDF : 8548701.1/38

dit_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 572.289+/-549.638 χ^2/NDF : 20.8/15

Left Out: -1471.142+/-1215.378 χ^2/NDF : 8.7/2

Right Out: -53.754+/-545.353 χ^2/NDF : 22.5/17

Left In: 1243.823+/-1312.917 χ^2/NDF : 0.3/1

Left: -218.244+/-891.893 χ^2/NDF : 11.3/4

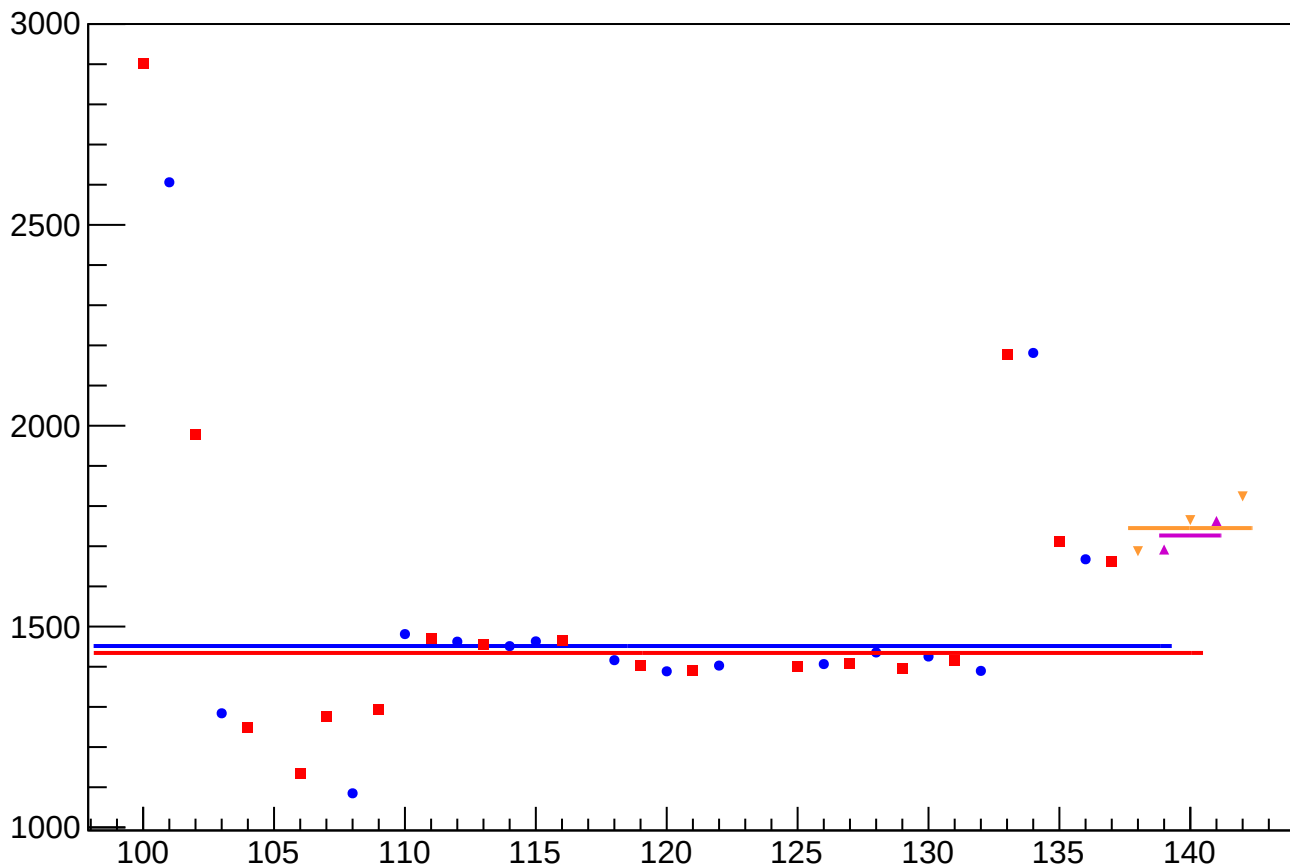
Right: 256.817+/-387.129 χ^2/NDF : 43.9/33

In: 672.430+/-507.002 χ^2/NDF : 21.3/17

Out: -291.304+/-497.559 χ^2/NDF : 32.4/20

All: 181.504+/-355.119 χ^2/NDF : 55.5/38

dit_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1451.579+/-0.389 χ^2/NDF : 487836.7/15

Left Out: 1745.166+/-0.859 χ^2/NDF : 3677.7/2

Right Out: 1434.321+/-0.386 χ^2/NDF : 328590.5/17

Left In: 1726.722+/-0.928 χ^2/NDF : 1463.7/1

Left: 1736.654+/-0.631 χ^2/NDF : 5353.9/4

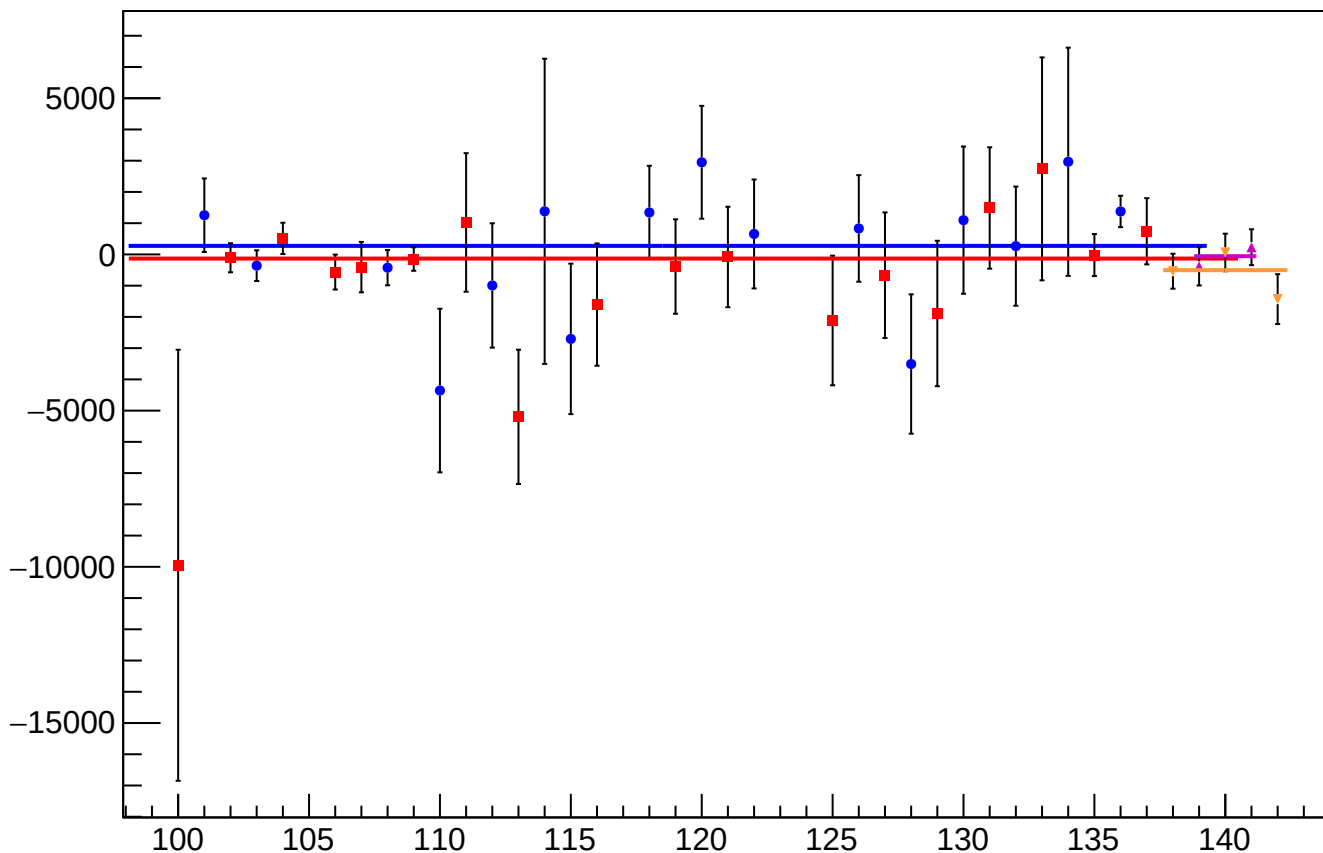
Right: 1442.883+/-0.274 χ^2/NDF : 817420.7/33

In: 1492.609+/-0.359 χ^2/NDF : 564037.7/17

Out: 1486.418+/-0.352 χ^2/NDF : 441168.0/20

All: 1489.455+/-0.251 χ^2/NDF : 1005357.7/38

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 273.439+/-260.537 χ^2/NDF : 20.2/15

Left Out: -503.681+/-364.505 χ^2/NDF : 2.2/2

Right Out: -132.573+/-195.933 χ^2/NDF : 14.4/17

Left In: -56.813+/-418.640 χ^2/NDF : 0.5/1

Left: -310.989+/-274.905 χ^2/NDF : 3.4/4

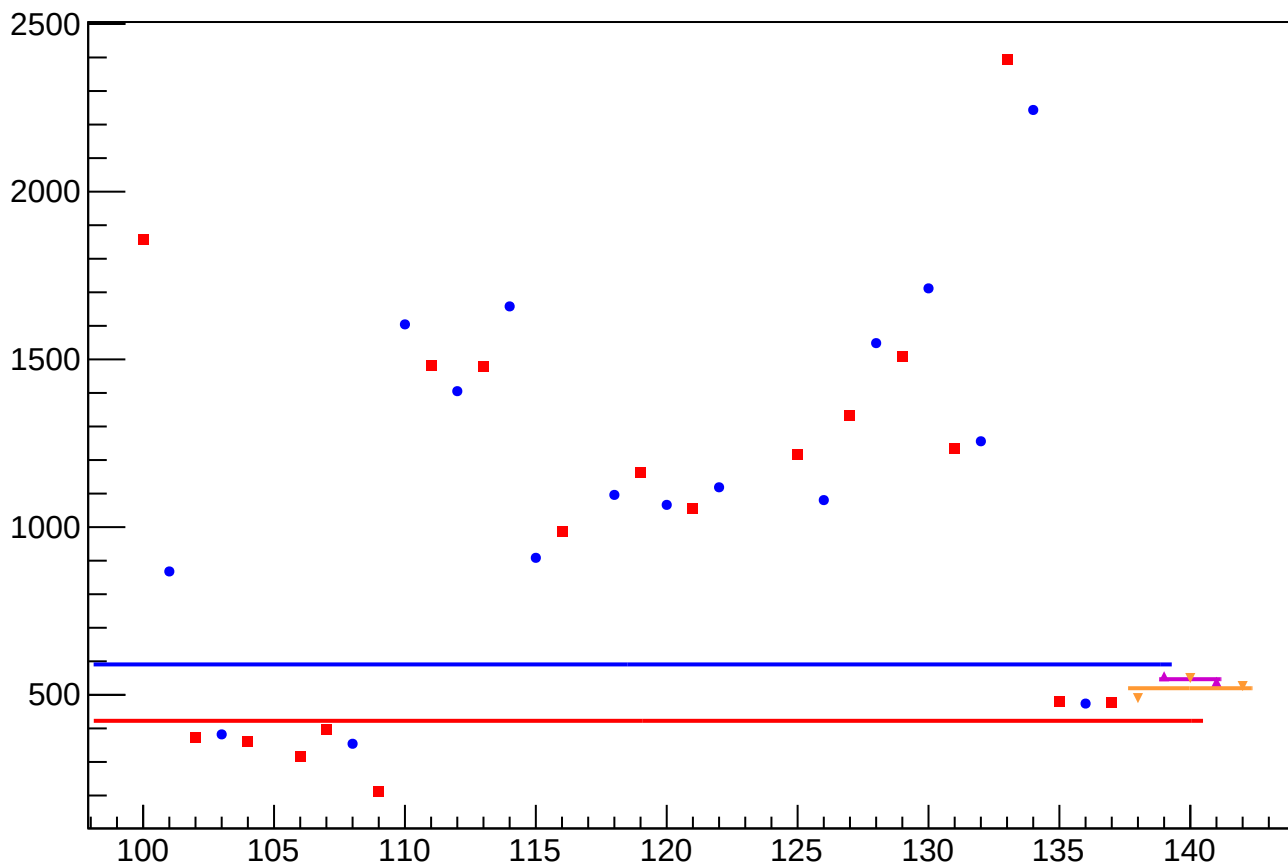
Right: 14.100+/-156.593 χ^2/NDF : 36.2/33

In: 181.240+/-221.199 χ^2/NDF : 21.2/17

Out: -215.764+/-172.581 χ^2/NDF : 17.5/20

All: -65.542+/-136.067 χ^2/NDF : 40.7/38

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 590.749+/-0.184 χ^2/NDF : 3885502.1/15

Left Out: 519.795+/-0.258 χ^2/NDF :10784.3/2

Right Out: 422.629+/-0.139 χ^2/NDF : 4858014.6/17

Left In: 546.725+/-0.296 χ^2/NDF :783.0/1

Left: 531.407+/-0.194 χ^2/NDF : 16274.7/4

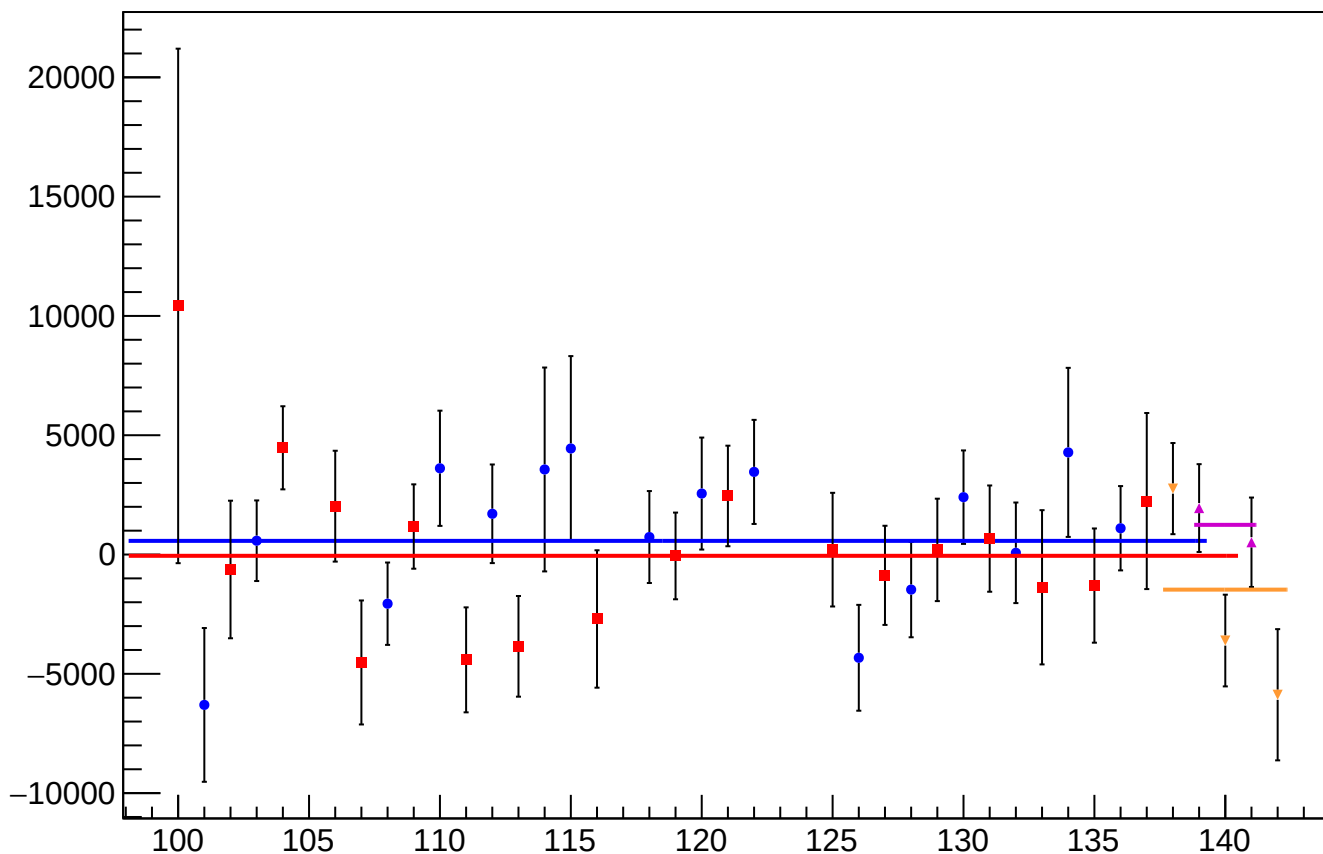
Right: 483.362+/-0.111 χ^2/NDF : 9275456.5/33

In: 578.458+/-0.156 χ^2/NDF :3902227.7/17

Out: 444.410+/-0.122 χ^2/NDF :4979059.7/20

All: 495.133+/-0.096 χ^2/NDF : 9337853.9/38

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 572.290+/-549.638 χ^2/NDF : 20.8/15

Left Out: -1471.154+/-1215.378 χ^2/NDF : 8.7/2

Right Out: -53.752+/-545.353 χ^2/NDF : 22.5/17

Left In: 1243.809+/-1312.917 χ^2/NDF : 0.3/1

Left: -218.256+/-891.893 χ^2/NDF : 11.3/4

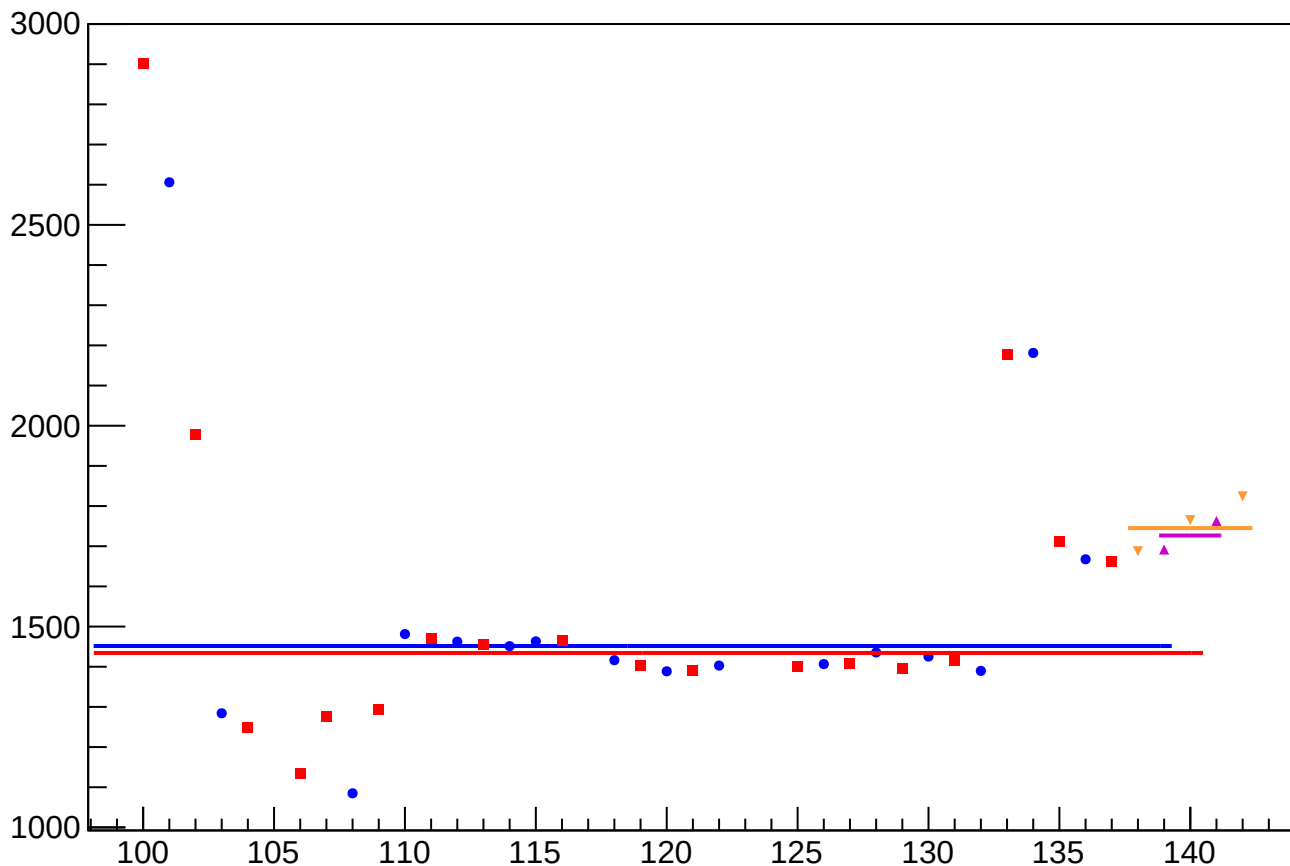
Right: 256.819+/-387.129 χ^2/NDF : 43.9/33

In: 672.429+/-507.002 χ^2/NDF : 21.3/17

Out: -291.304+/-497.559 χ^2/NDF : 32.4/20

All: 181.503+/-355.119 χ^2/NDF : 55.5/38

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1451.579+/-0.389 χ^2/NDF : 487836.2/15

Left Out: 1745.166+/-0.859 χ^2/NDF : 3677.7/2

Right Out: 1434.321+/-0.386 χ^2/NDF : 328590.5/17

Left In: 1726.722+/-0.928 χ^2/NDF : 1463.7/1

Left: 1736.654+/-0.631 χ^2/NDF : 5354.0/4

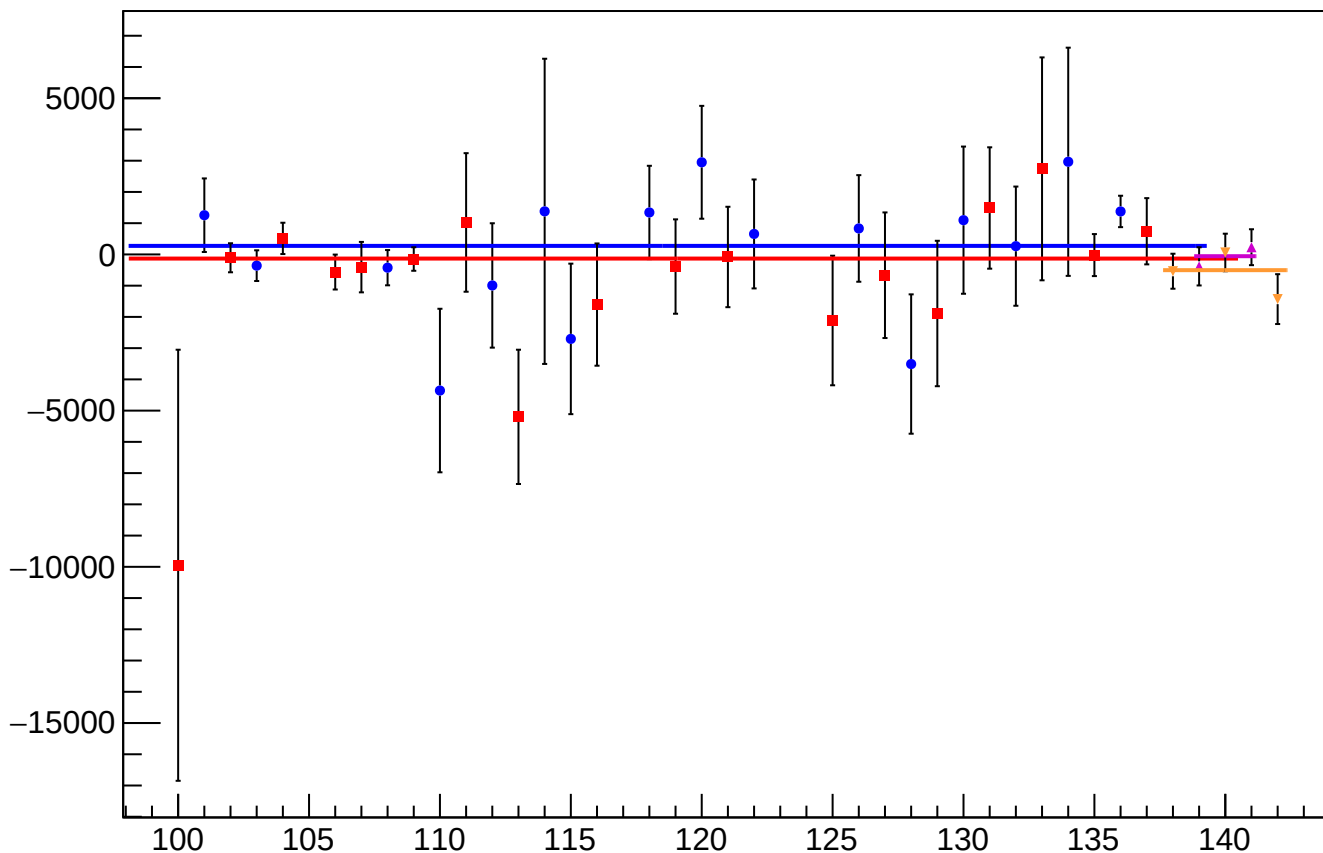
Right: 1442.883+/-0.274 χ^2/NDF : 817420.3/33

In: 1492.609+/-0.359 χ^2/NDF : 564037.4/17

Out: 1486.418+/-0.352 χ^2/NDF : 441168.3/20

All: 1489.455+/-0.251 χ^2/NDF : 1005357.7/38

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 273.429+/-260.536 χ^2/NDF : 20.2/15

Left Out: -503.692+/-364.516 χ^2/NDF : 2.2/2

Right Out: -132.567+/-195.935 χ^2/NDF : 14.4/17

Left In: -56.825+/-418.651 χ^2/NDF : 0.5/1

Left: -311.001+/-274.912 χ^2/NDF : 3.4/4

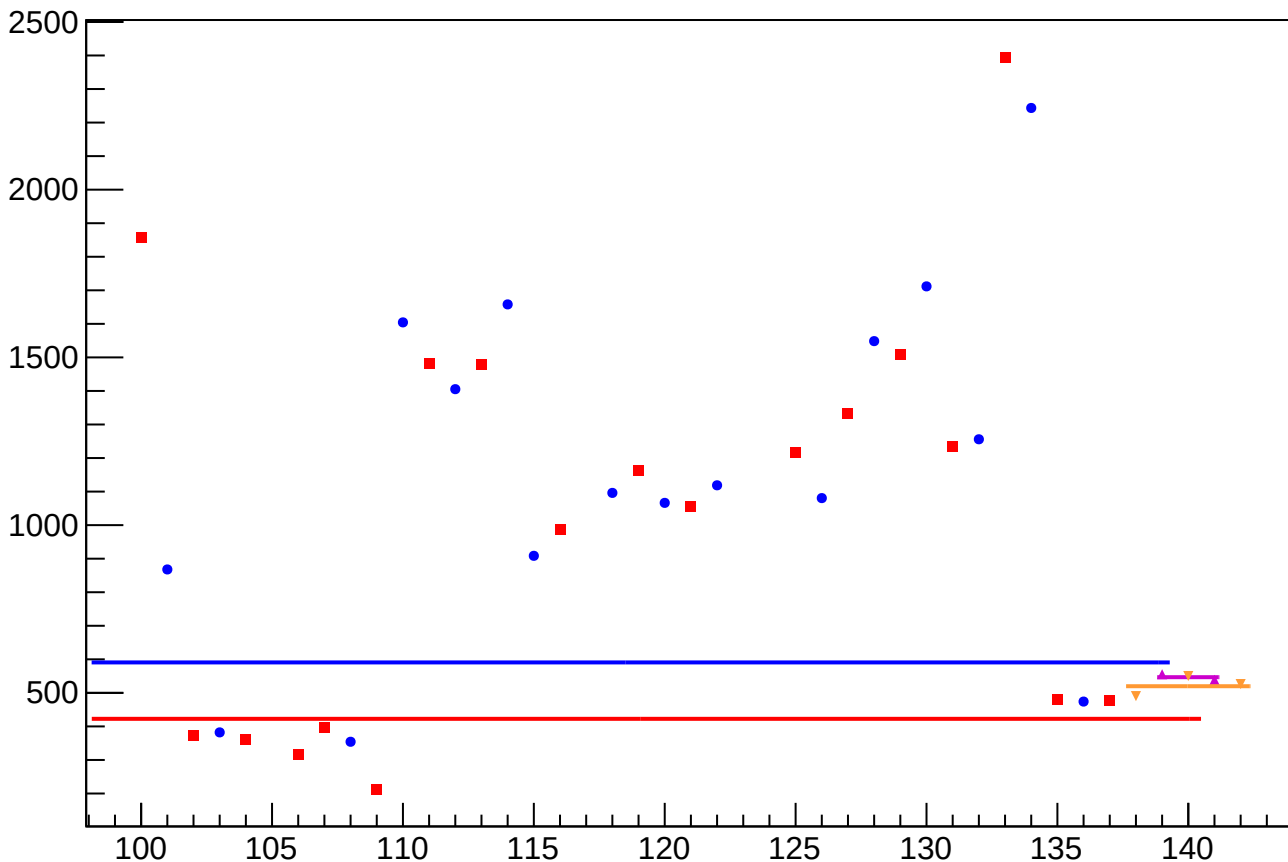
Right: 14.101+/-156.594 χ^2/NDF : 36.2/33

In: 181.233+/-221.200 χ^2/NDF : 21.2/17

Out: -215.760+/-172.583 χ^2/NDF : 17.5/20

All: -65.541+/-136.068 χ^2/NDF : 40.7/38

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 590.747+/-0.184 χ^2/NDF : 3885530.6/15

Left Out: 519.811+/-0.258 χ^2/NDF :10779.1/2

Right Out: 422.634+/-0.139 χ^2/NDF : 4857932.7/17

Left In: 546.740+/-0.296 χ^2/NDF :784.3/1

Left: 531.423+/-0.194 χ^2/NDF : 16270.2/4

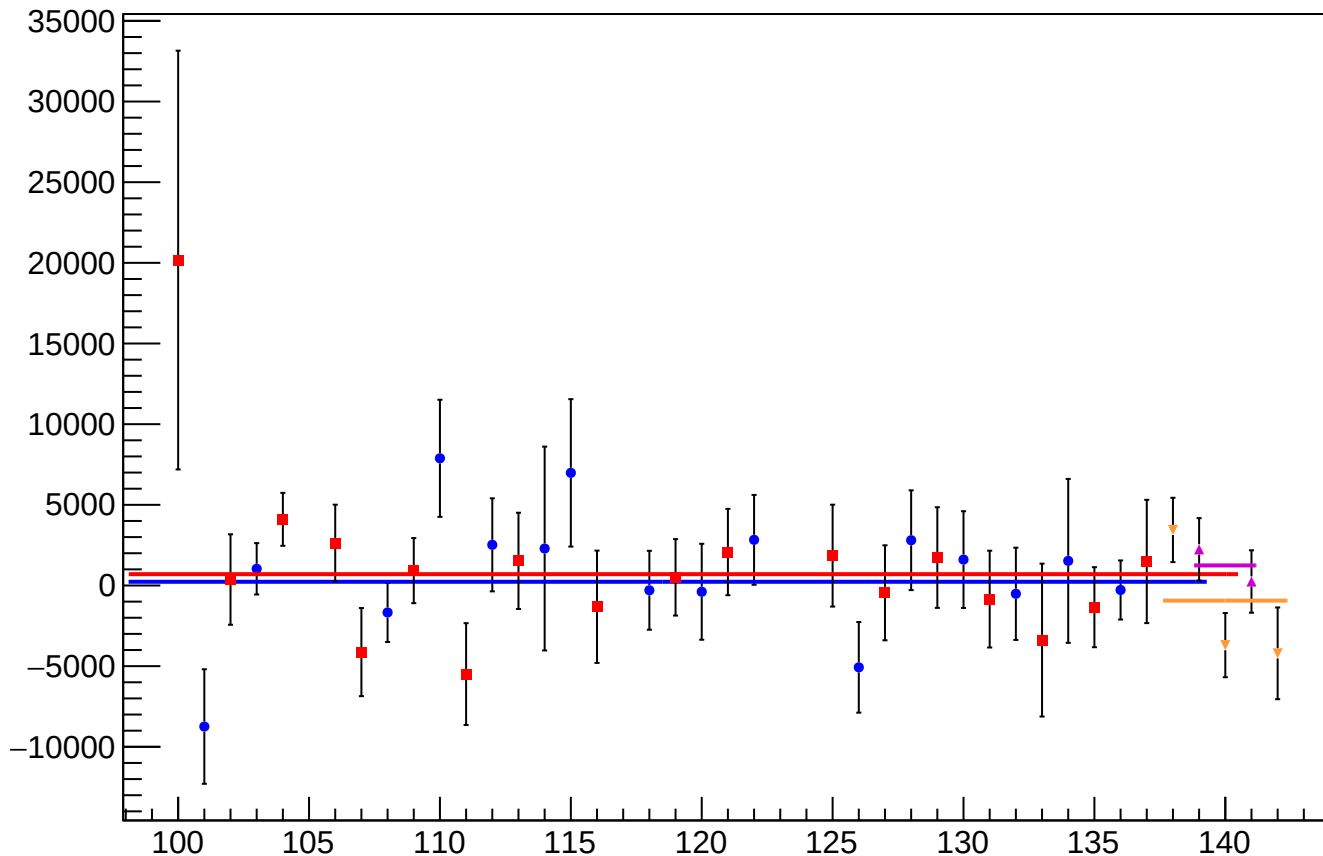
Right: 483.366+/-0.111 χ^2/NDF : 9275354.4/33

In: 578.462+/-0.156 χ^2/NDF :3902244.6/17

Out: 444.417+/-0.122 χ^2/NDF :4978990.0/20

All: 495.139+/-0.096 χ^2/NDF : 9337767.9/38

asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 230.761 $\pm$ 666.241 χ^2 /NDF: 20.7/15

Left Out: -936.680 $\pm$ 1262.248 χ^2 /NDF: 8.1/2

Right Out: 702.268 $\pm$ 648.319 χ^2 /NDF: 17.0/17

Left In: 1243.598 $\pm$ 1368.459 χ^2 /NDF: 0.5/1

Left: 65.576 $\pm$ 927.823 χ^2 /NDF: 10.0/4

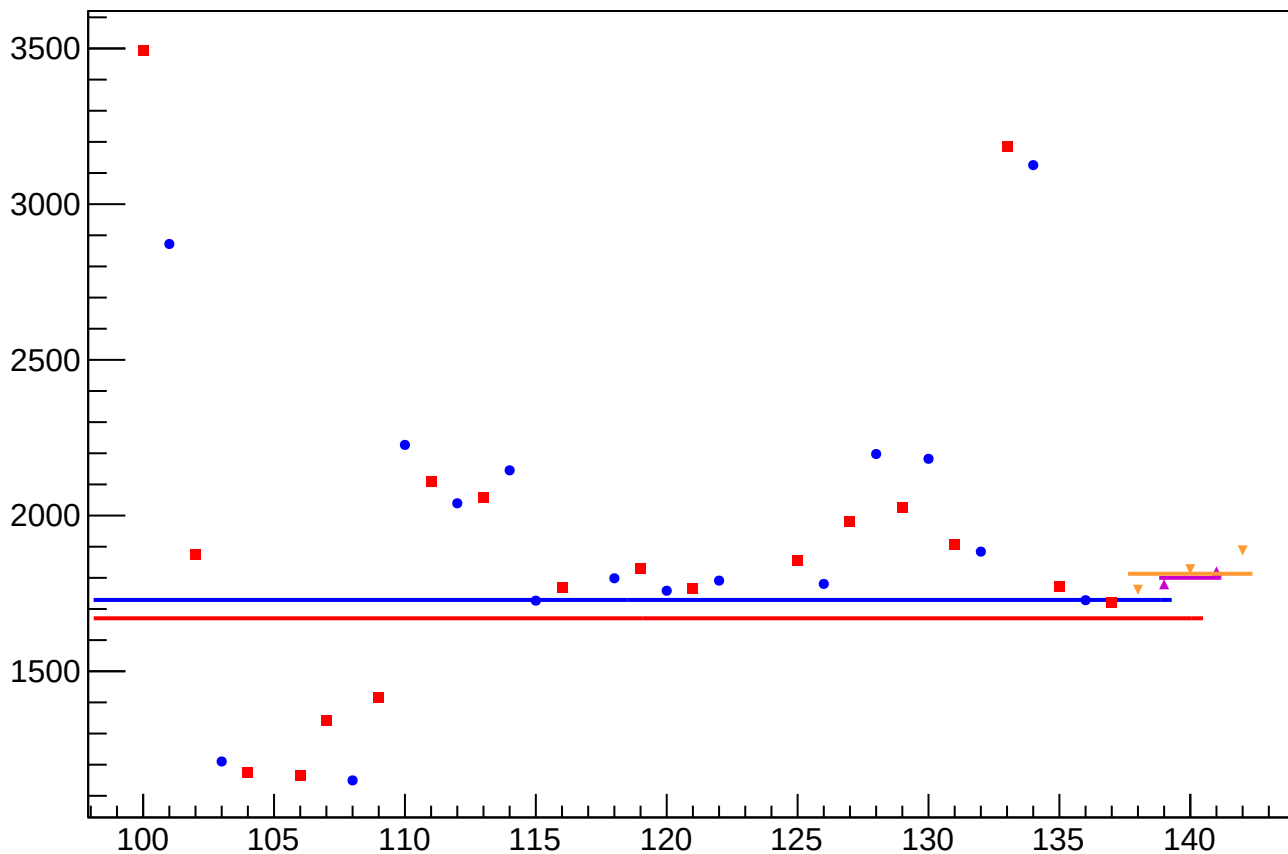
Right: 472.942 $\pm$ 464.638 χ^2 /NDF: 38.0/33

In: 424.831 $\pm$ 599.020 χ^2 /NDF: 21.7/17

Out: 360.153 $\pm$ 576.698 χ^2 /NDF: 26.4/20

All: 391.265 $\pm$ 415.454 χ^2 /NDF: 48.1/38

asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1729.050+/-0.471 χ^2/NDF : 942079.1/15

Left Out: 1813.095+/-0.893 χ^2/NDF : 2825.7/2

Right Out: 1670.056+/-0.458 χ^2/NDF : 744452.0/17

Left In: 1800.046+/-0.968 χ^2/NDF : 454.8/1

Left: 1807.096+/-0.656 χ^2/NDF : 3378.7/4

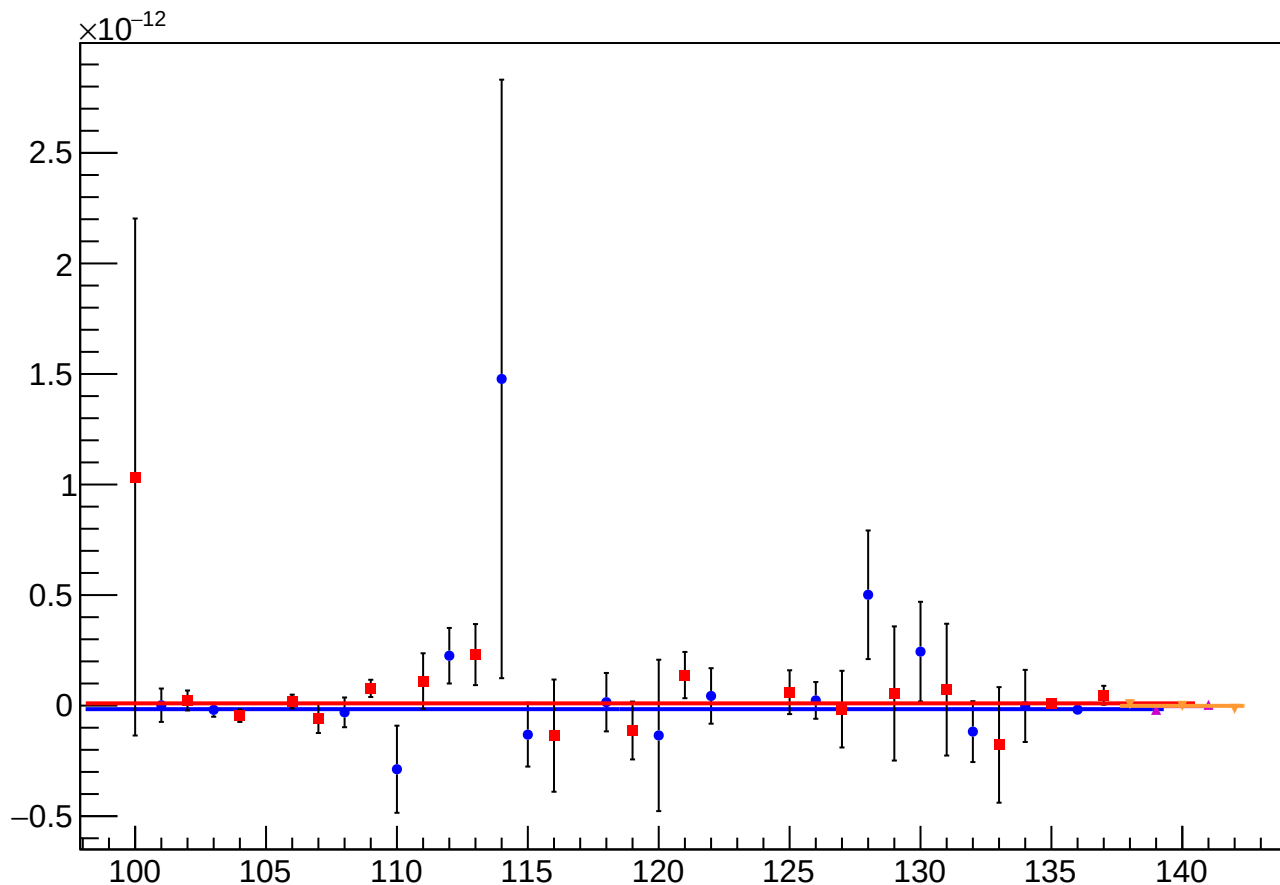
Right: 1698.749+/-0.329 χ^2/NDF : 1694585.4/33

In: 1742.653+/-0.424 χ^2/NDF : 946885.6/17

Out: 1699.914+/-0.408 χ^2/NDF : 767599.7/20

All: 1720.472+/-0.294 χ^2/NDF : 1719769.2/38

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 13.3/15

Left Out: -0.000+/-0.000 χ^2 /NDF:1.0/2

Right Out: 0.000+/-0.000 χ^2 /NDF: 16.4/17

Left In: -0.000+/-0.000 χ^2 /NDF:1.2/1

Left: -0.000+/-0.000 χ^2 /NDF: 2.2/4

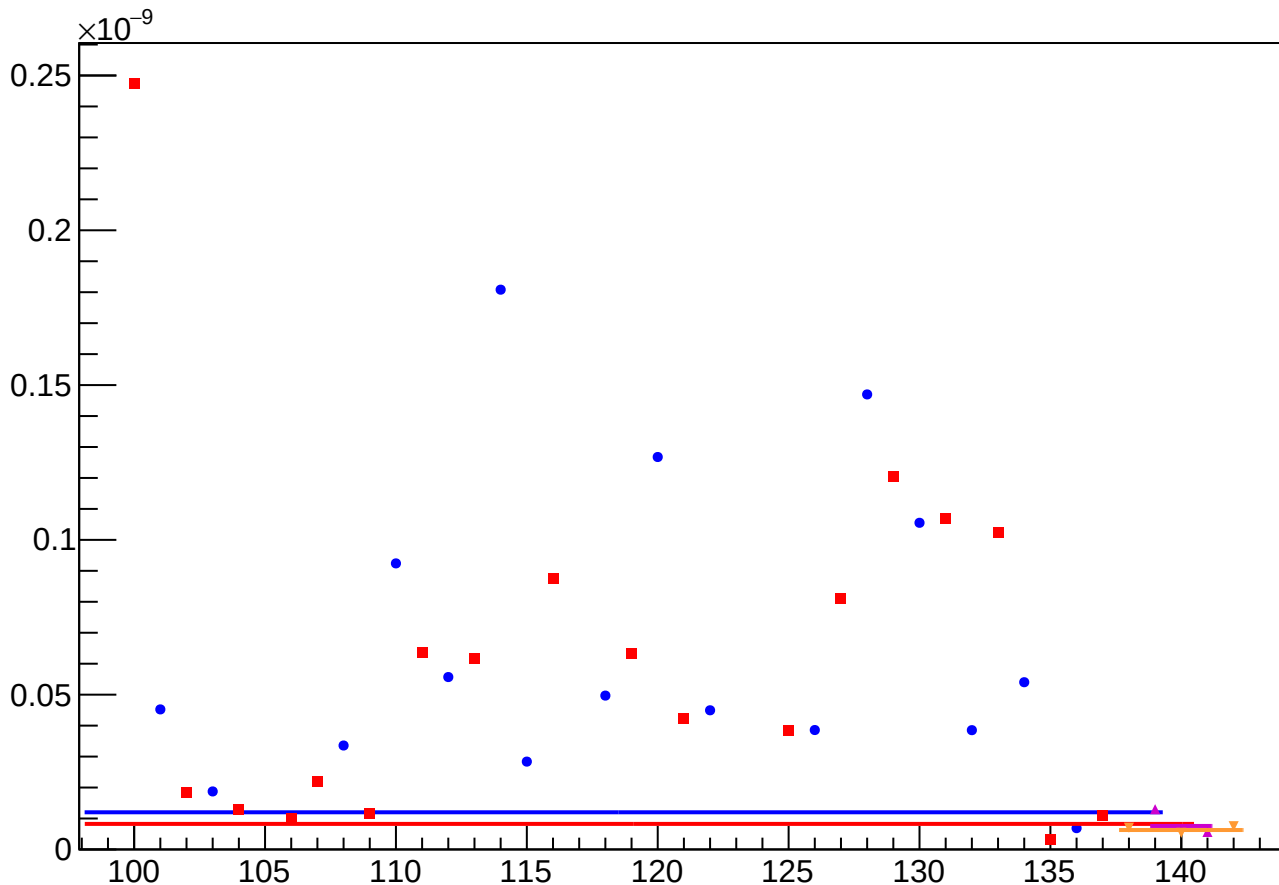
Right: -0.000+/-0.000 χ^2 /NDF: 33.5/33

In: -0.000+/-0.000 χ^2 /NDF:15.5/17

Out: 0.000+/-0.000 χ^2 /NDF:18.4/20

All: -0.000+/-0.000 χ^2 /NDF: 35.8/38

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 3425893.8/15

Left Out: 0.000+/-0.000

χ^2/NDF :33142.4/2

Right Out: 0.000+/-0.000

χ^2/NDF : 3510130.7/17

Left In: 0.000+/-0.000

χ^2/NDF :262921.1/1

Left: 0.000+/-0.000

χ^2/NDF : 322494.9/4

Right: 0.000+/-0.000

χ^2/NDF : 7091803.5/33

In: 0.000+/-0.000

χ^2/NDF :3899698.6/17

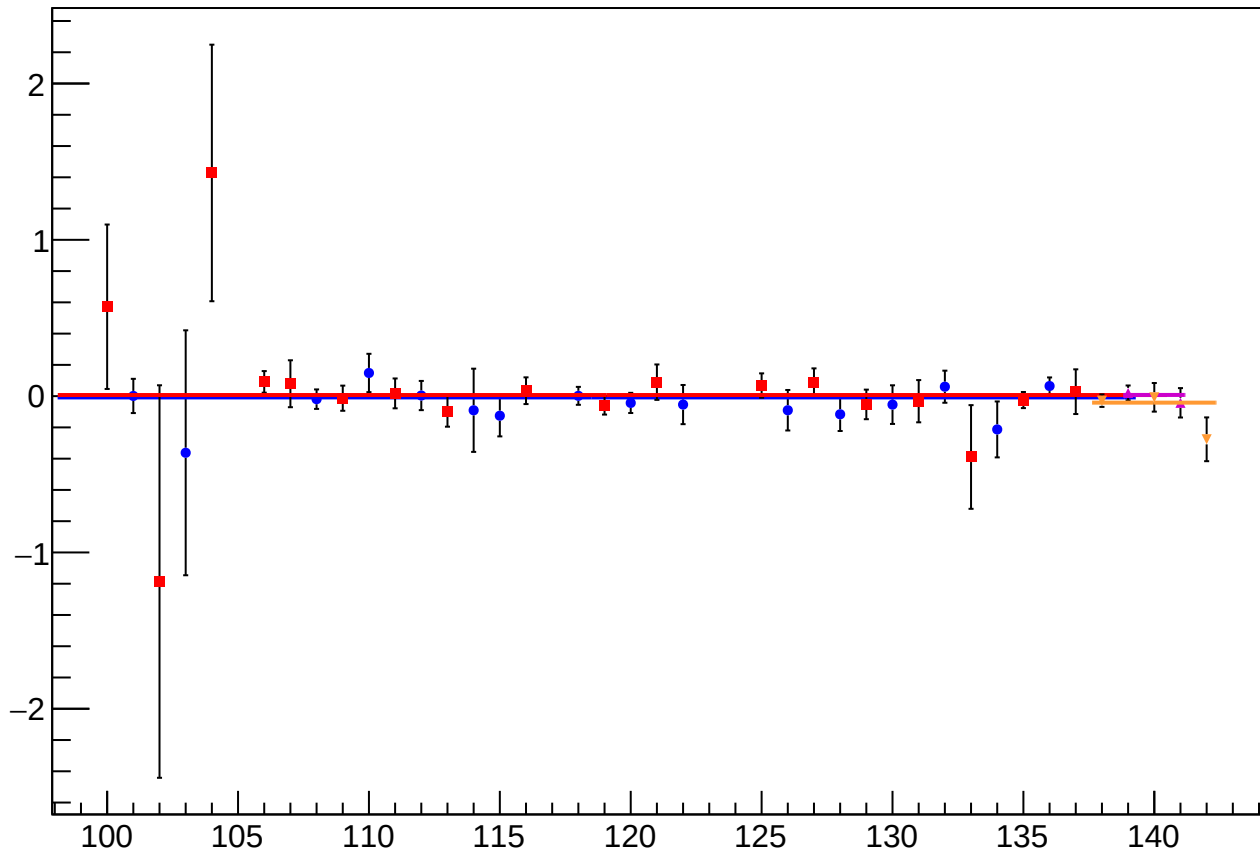
Out: 0.000+/-0.000

χ^2/NDF :3605131.6/20

All: 0.000+/-0.000

χ^2/NDF : 7659147.2/38

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.023 χ^2/NDF : 8.3/15

Left Out: -0.042 ± 0.035 χ^2/NDF : 3.0/2

Right Out: 0.007 ± 0.022 χ^2/NDF : 13.7/17

Left In: 0.008 ± 0.042 χ^2/NDF : 0.4/1

Left: -0.021 ± 0.027 χ^2/NDF : 4.2/4

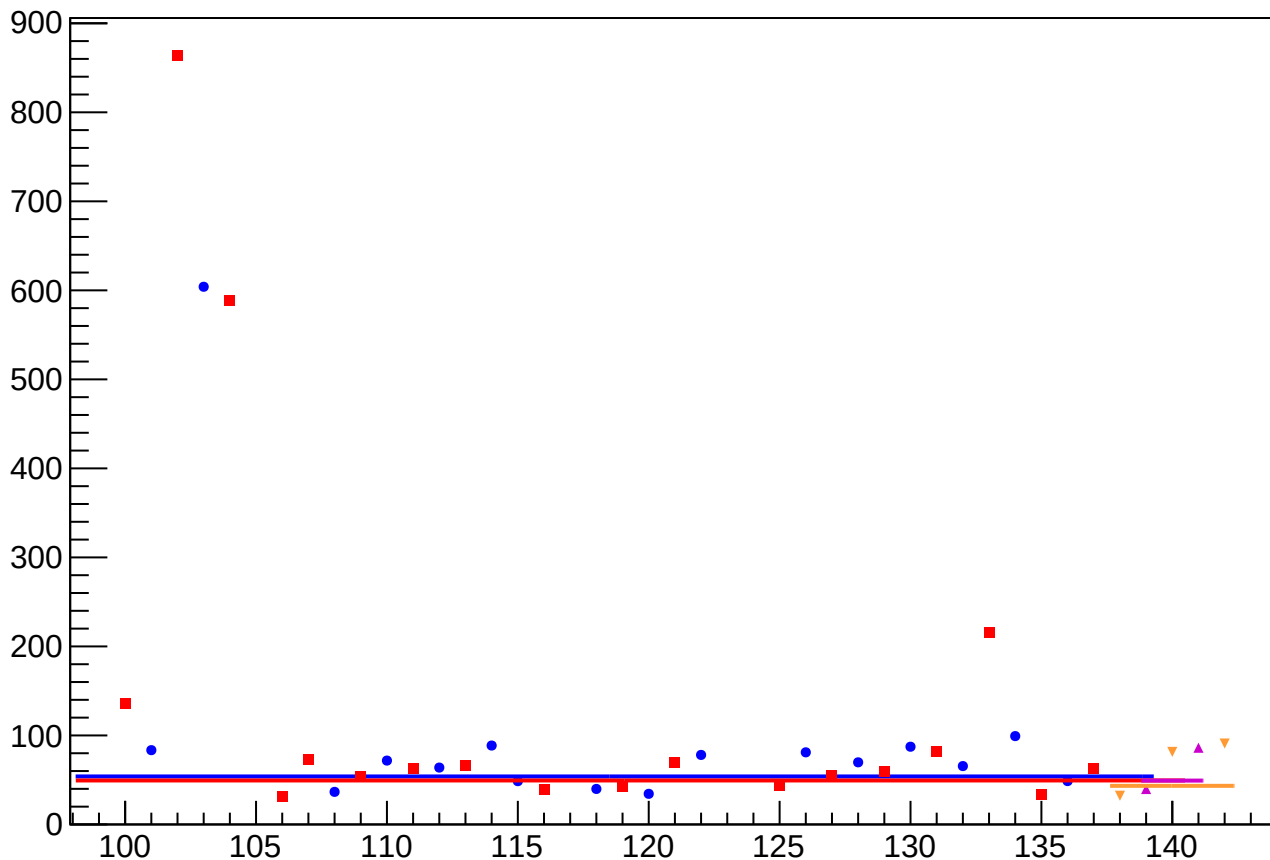
Right: -0.000 ± 0.016 χ^2/NDF : 22.2/33

In: -0.005 ± 0.020 χ^2/NDF : 8.8/17

Out: -0.007 ± 0.019 χ^2/NDF : 18.1/20

All: -0.006 ± 0.014 χ^2/NDF : 26.8/38

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 53.926+/-0.016 χ^2/NDF : 2214348.1/15

Left Out: 43.380+/-0.025 χ^2/NDF : 732486.7/2

Right Out: 49.420+/-0.016 χ^2/NDF : 3017719.3/17

Left In: 49.274+/-0.030 χ^2/NDF : 387259.2/1

Left: 45.796+/-0.019 χ^2/NDF : 1142456.1/4

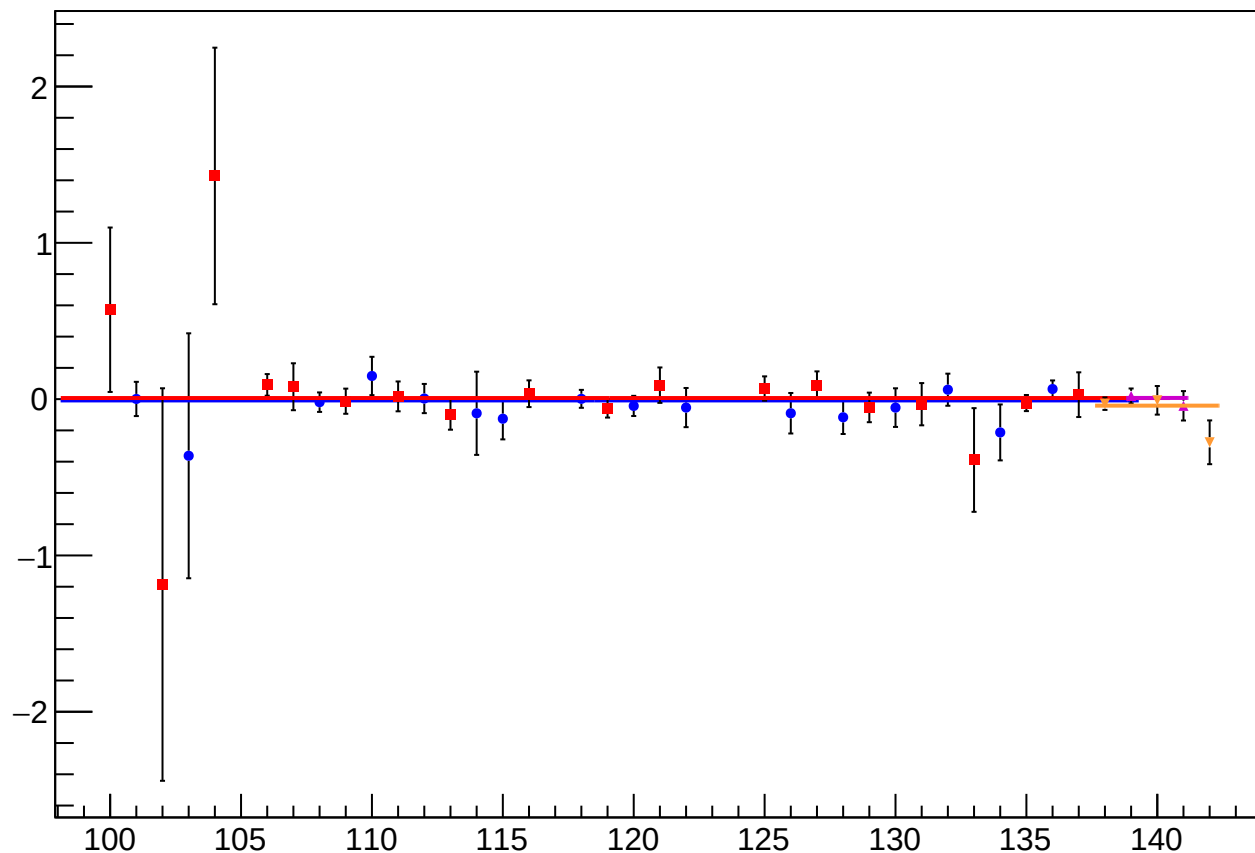
Right: 51.585+/-0.011 χ^2/NDF : 5271581.7/33

In: 52.864+/-0.014 χ^2/NDF : 2620118.4/17

Out: 47.713+/-0.013 χ^2/NDF : 3791947.0/20

All: 50.094+/-0.010 χ^2/NDF : 6481304.6/38

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.023 χ^2/NDF : 8.3/15

Left Out: -0.042 ± 0.035 χ^2/NDF : 3.0/2

Right Out: 0.007 ± 0.022 χ^2/NDF : 13.7/17

Left In: 0.008 ± 0.042 χ^2/NDF : 0.4/1

Left: -0.021 ± 0.027 χ^2/NDF : 4.2/4

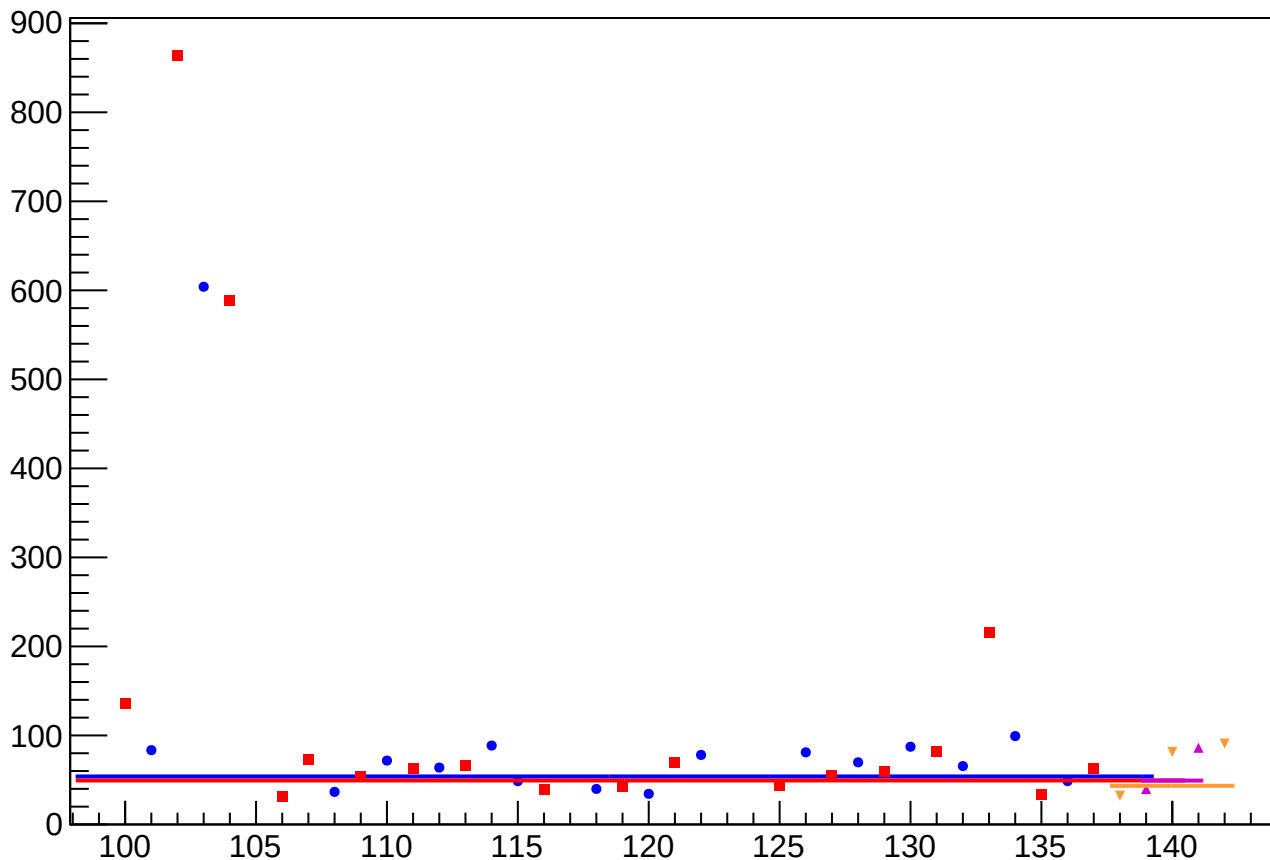
Right: -0.000 ± 0.016 χ^2/NDF : 22.2/33

In: -0.005 ± 0.020 χ^2/NDF : 8.8/17

Out: -0.007 ± 0.019 χ^2/NDF : 18.1/20

All: -0.006 ± 0.014 χ^2/NDF : 26.8/38

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 53.926 $\pm$ 0.016 χ^2 /NDF: 2214348.1/15

Left Out: 43.380 $\pm$ 0.025 χ^2 /NDF: 732486.7/2

Right Out: 49.420 $\pm$ 0.016 χ^2 /NDF: 3017719.3/17

Left In: 49.274 $\pm$ 0.030 χ^2 /NDF: 387259.2/1

Left: 45.796 $\pm$ 0.019 χ^2 /NDF: 1142456.1/4

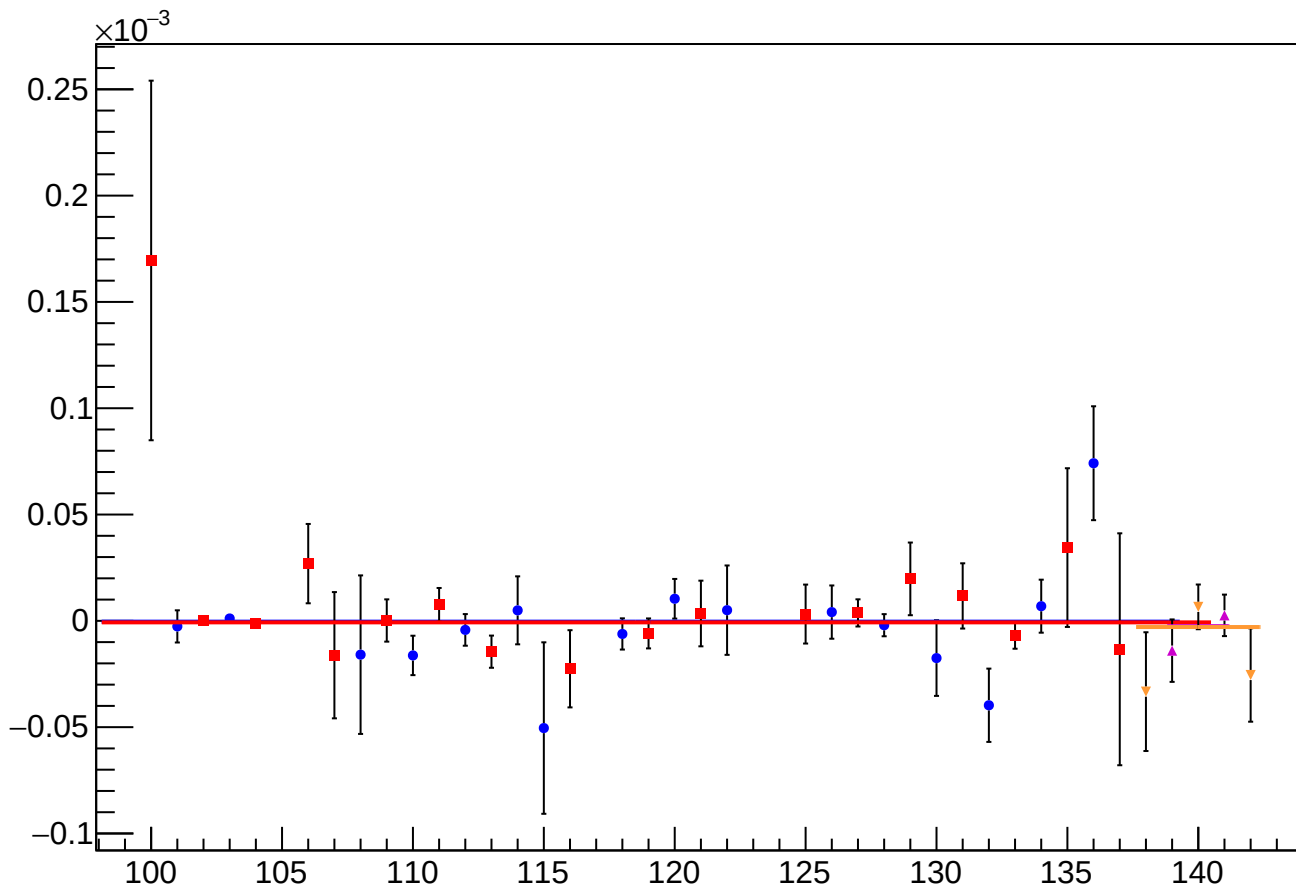
Right: 51.585 $\pm$ 0.011 χ^2 /NDF: 5271581.7/33

In: 52.864 $\pm$ 0.014 χ^2 /NDF: 2620118.4/17

Out: 47.713 $\pm$ 0.013 χ^2 /NDF: 3791947.0/20

All: 50.094 $\pm$ 0.010 χ^2 /NDF: 6481304.6/38

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 22.1/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.1/2

Right Out: -0.000+/-0.000 χ^2/NDF : 17.8/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.9/1

Left: -0.000+/-0.000 χ^2/NDF : 3.9/4

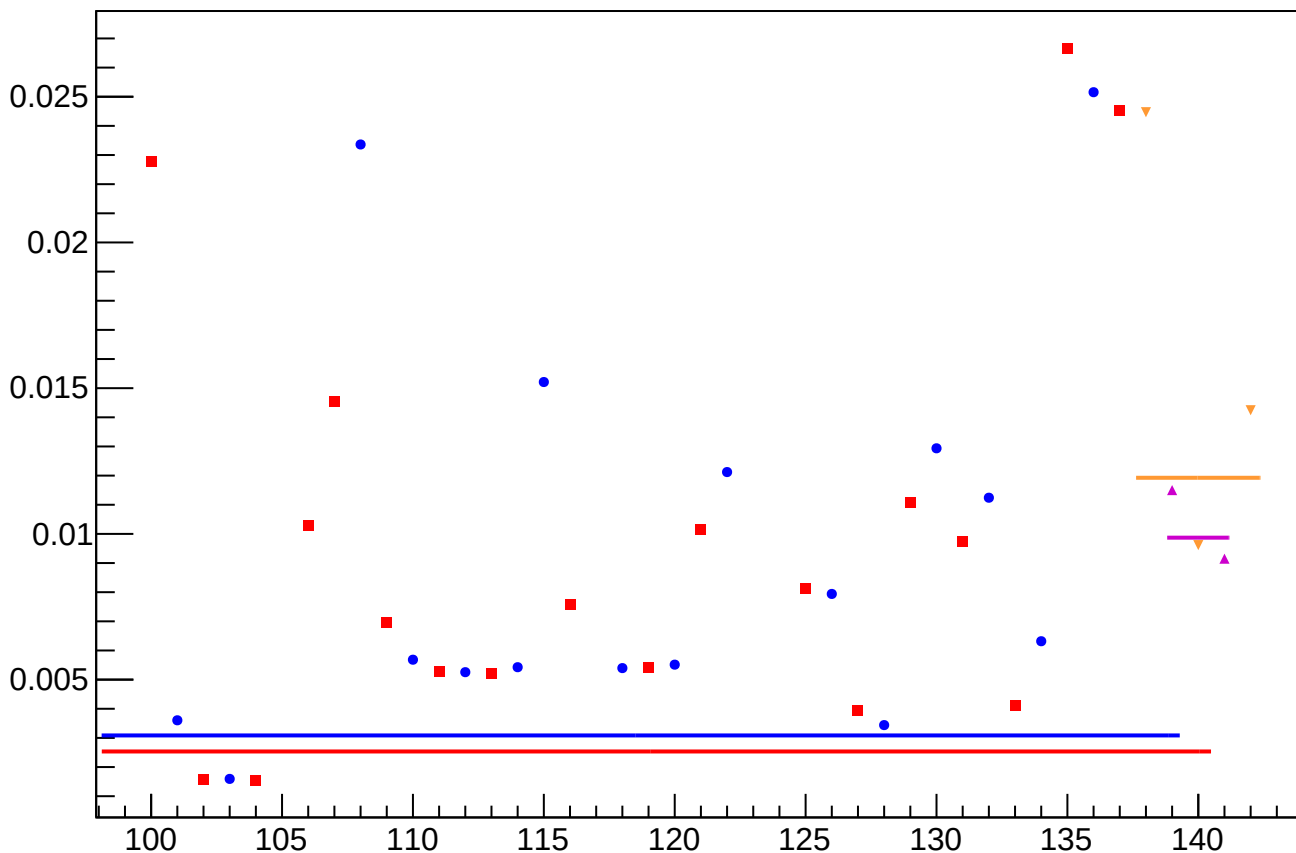
Right: -0.000+/-0.000 χ^2/NDF : 40.0/33

In: -0.000+/-0.000 χ^2/NDF : 23.1/17

Out: -0.000+/-0.000 χ^2/NDF : 20.9/20

All: -0.000+/-0.000 χ^2/NDF : 44.0/38

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000

χ^2/NDF : 5779108.6/15

Left Out: 0.012+/-0.000

χ^2/NDF : 522331.4/2

Right Out: 0.003+/-0.000

χ^2/NDF : 6237059.6/17

Left In: 0.010+/-0.000

χ^2/NDF : 35630.2/1

Left: 0.011+/-0.000

χ^2/NDF : 615531.4/4

Right: 0.003+/-0.000

χ^2/NDF : 12159145.0/33

In: 0.003+/-0.000

χ^2/NDF : 7155935.0/17

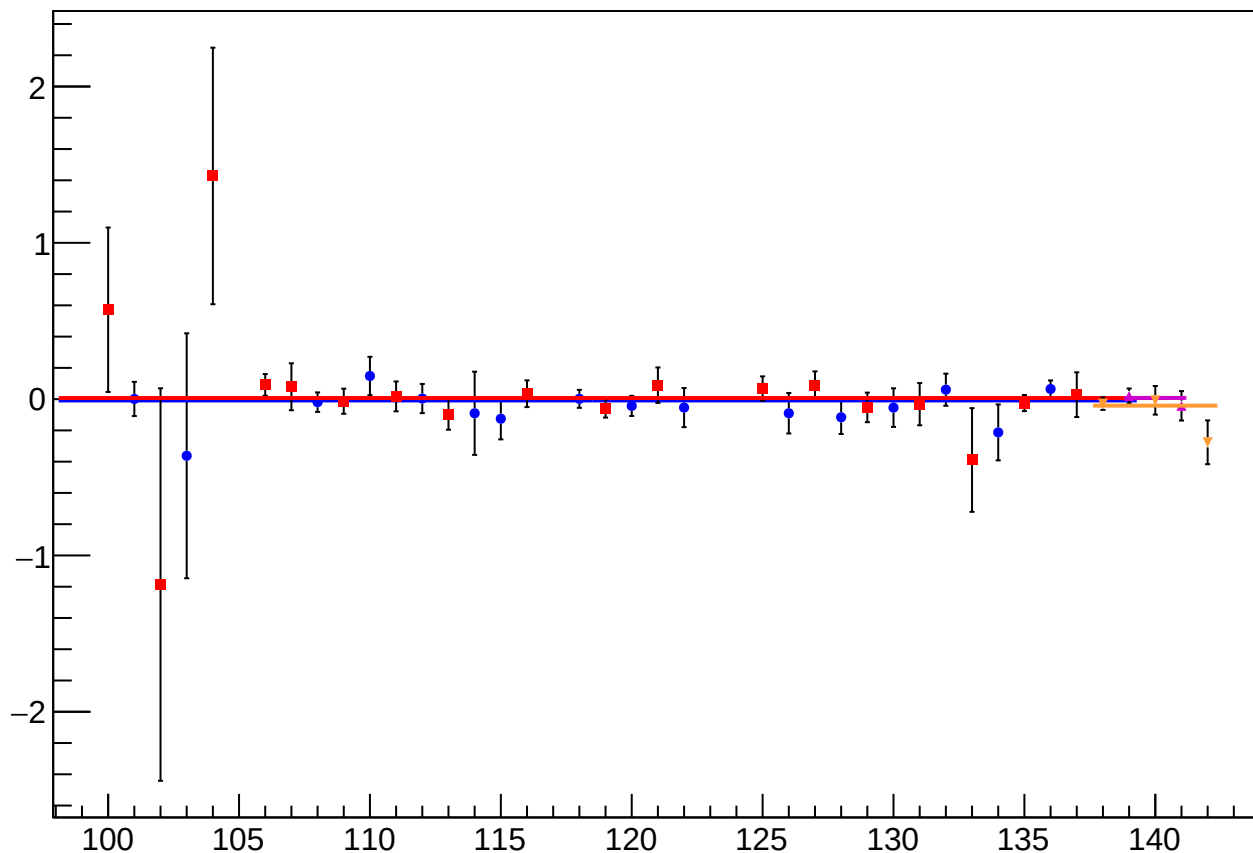
Out: 0.003+/-0.000

χ^2/NDF : 8903391.1/20

All: 0.003+/-0.000

χ^2/NDF : 16250299.2/38

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.023 χ^2/NDF : 8.3/15

Left Out: -0.042 ± 0.035 χ^2/NDF : 3.0/2

Right Out: 0.007 ± 0.022 χ^2/NDF : 13.7/17

Left In: 0.008 ± 0.042 χ^2/NDF : 0.4/1

Left: -0.021 ± 0.027 χ^2/NDF : 4.2/4

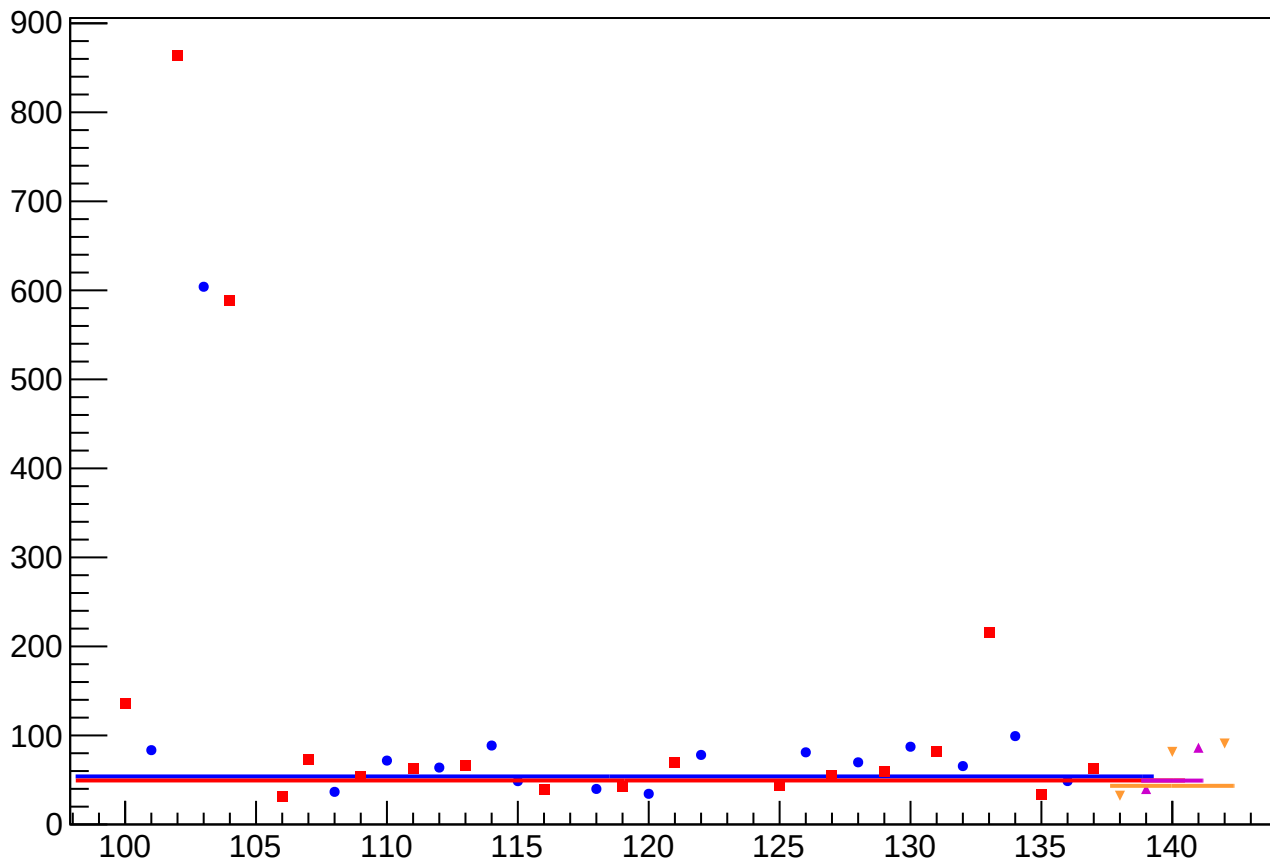
Right: -0.000 ± 0.016 χ^2/NDF : 22.2/33

In: -0.005 ± 0.020 χ^2/NDF : 8.8/17

Out: -0.007 ± 0.019 χ^2/NDF : 18.1/20

All: -0.006 ± 0.014 χ^2/NDF : 26.8/38

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 53.929 $\pm$ 0.016 χ^2 /NDF: 2213950.2/15

Left Out: 43.390 $\pm$ 0.025 χ^2 /NDF: 732331.3/2

Right Out: 49.422 $\pm$ 0.016 χ^2 /NDF: 3017440.2/17

Left In: 49.277 $\pm$ 0.030 χ^2 /NDF: 387286.6/1

Left: 45.803 $\pm$ 0.019 χ^2 /NDF: 1142270.7/4

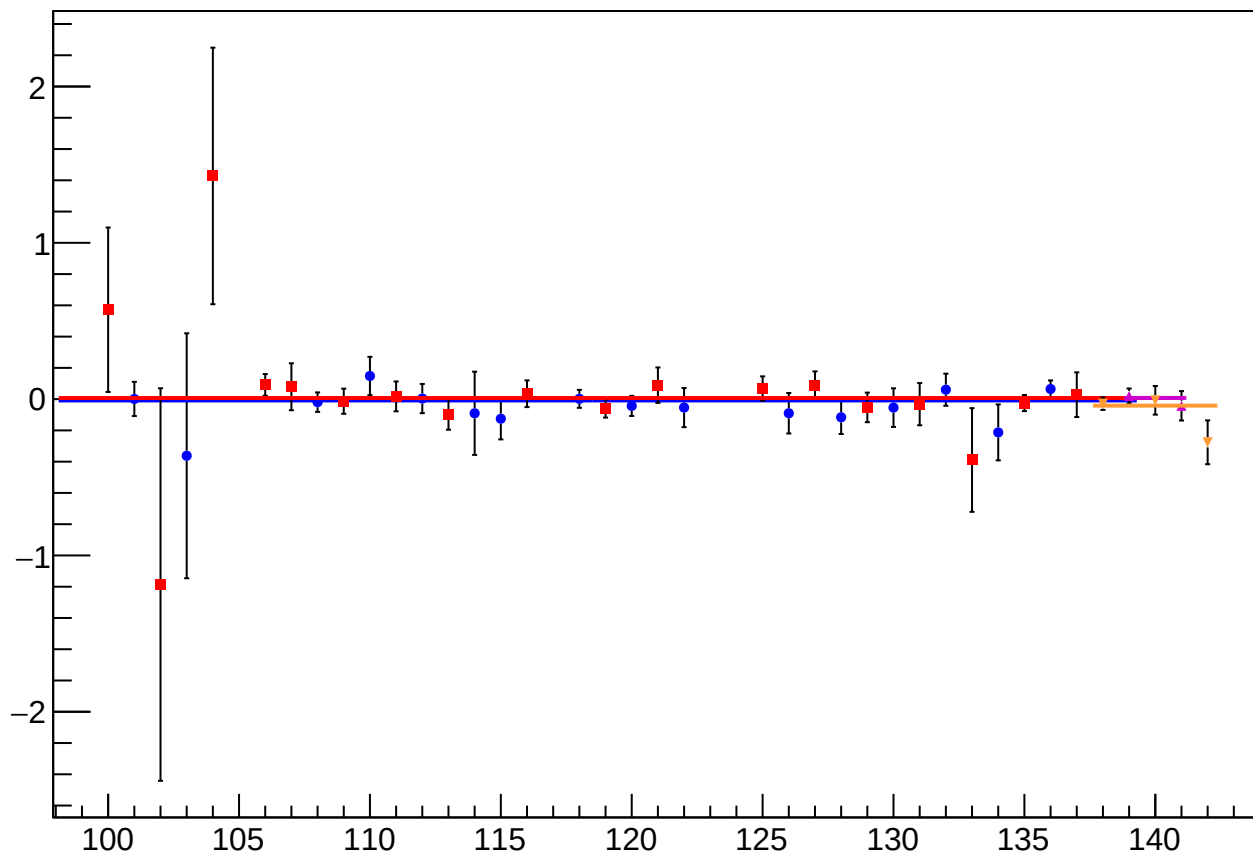
Right: 51.588 $\pm$ 0.011 χ^2 /NDF: 5270924.4/33

In: 52.867 $\pm$ 0.014 χ^2 /NDF: 2619747.7/17

Out: 47.718 $\pm$ 0.013 χ^2 /NDF: 3791394.2/20

All: 50.098 $\pm$ 0.010 χ^2 /NDF: 6480338.8/38

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.023 χ^2/NDF : 8.3/15

Left Out: -0.042 ± 0.035 χ^2/NDF : 3.0/2

Right Out: 0.007 ± 0.022 χ^2/NDF : 13.7/17

Left In: 0.008 ± 0.042 χ^2/NDF : 0.4/1

Left: -0.021 ± 0.027 χ^2/NDF : 4.2/4

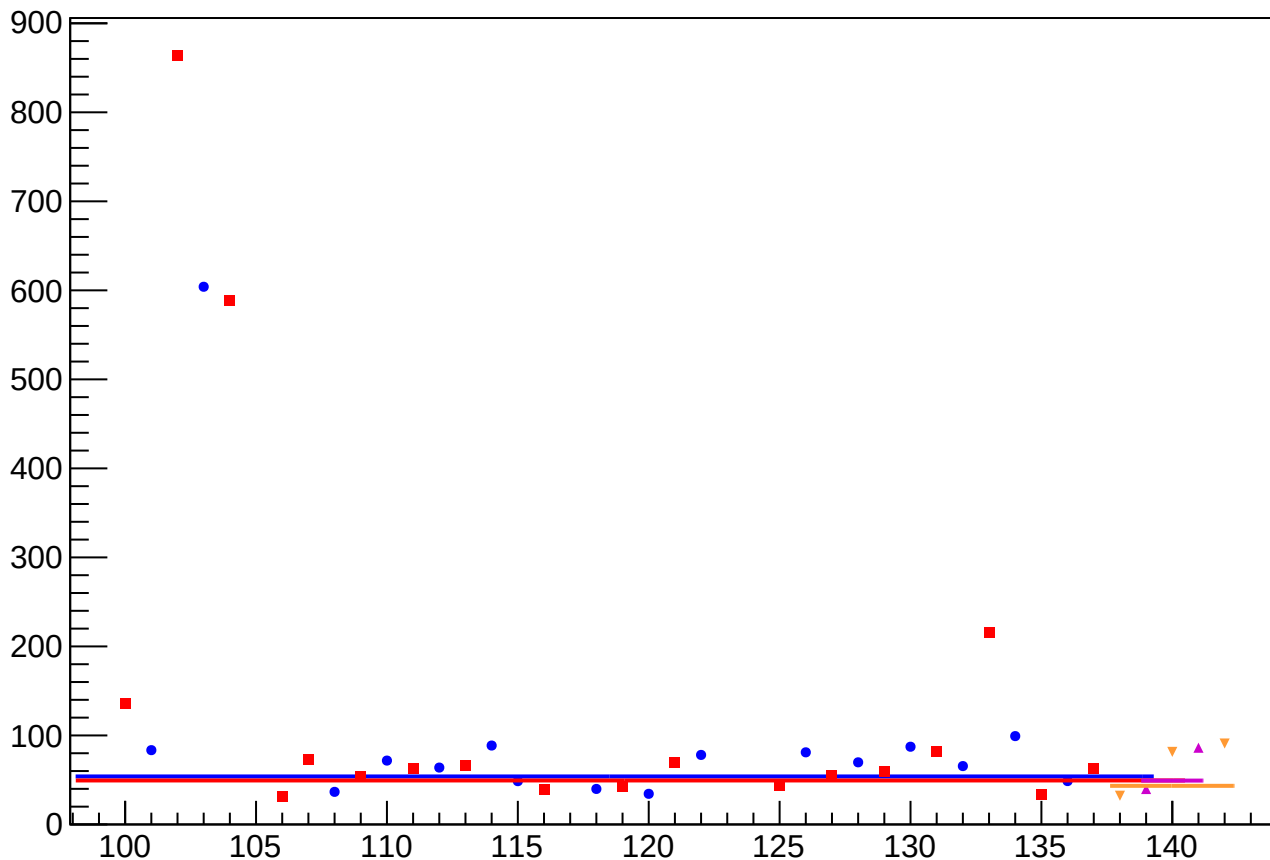
Right: -0.000 ± 0.016 χ^2/NDF : 22.2/33

In: -0.005 ± 0.020 χ^2/NDF : 8.8/17

Out: -0.007 ± 0.019 χ^2/NDF : 18.1/20

All: -0.006 ± 0.014 χ^2/NDF : 26.8/38

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 53.929+/-0.016 χ^2/NDF : 2213950.2/15

Left Out: 43.390+/-0.025 χ^2/NDF : 732331.3/2

Right Out: 49.422+/-0.016 χ^2/NDF : 3017440.2/17

Left In: 49.277+/-0.030 χ^2/NDF : 387286.6/1

Left: 45.803+/-0.019 χ^2/NDF : 1142270.7/4

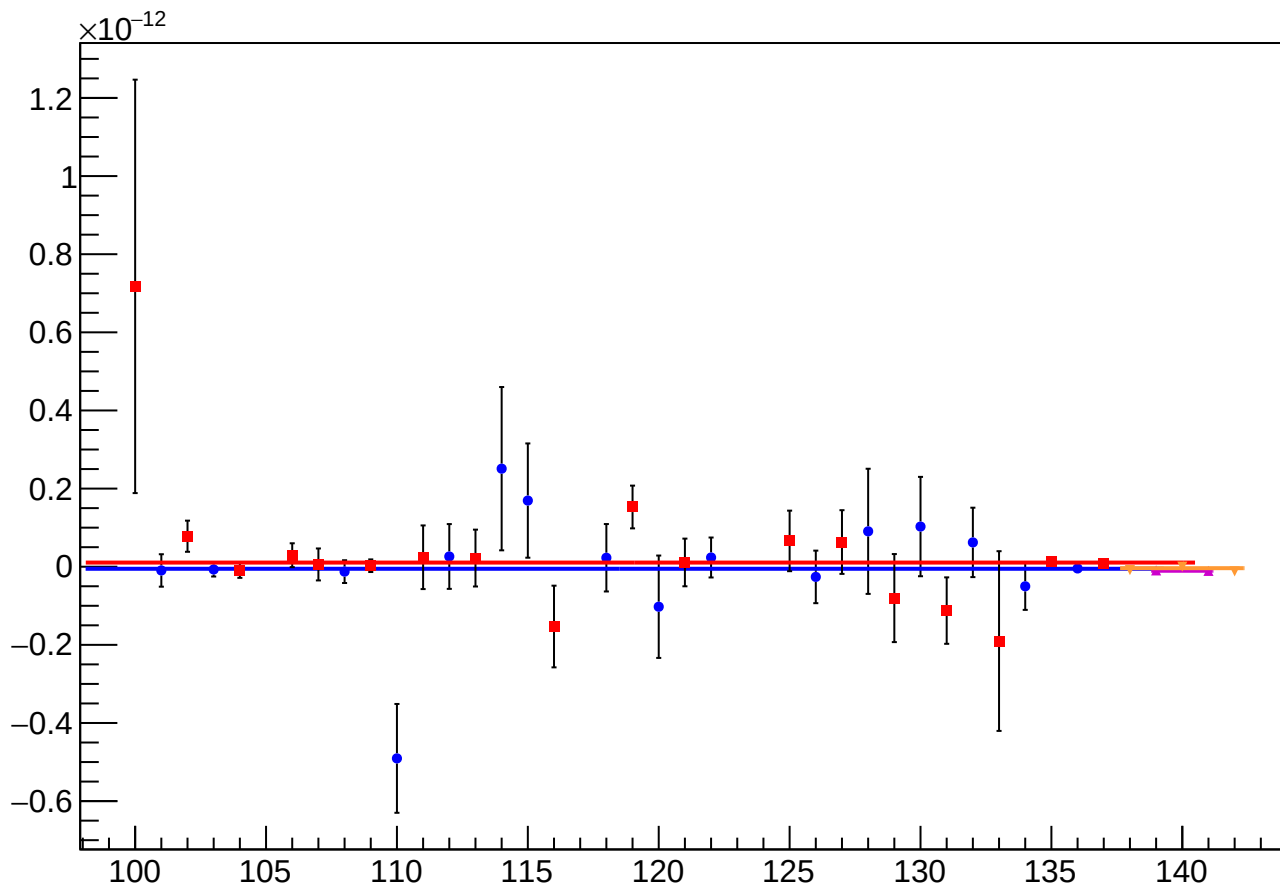
Right: 51.588+/-0.011 χ^2/NDF : 5270924.4/33

In: 52.867+/-0.014 χ^2/NDF : 2619747.7/17

Out: 47.718+/-0.013 χ^2/NDF : 3791394.2/20

All: 50.098+/-0.010 χ^2/NDF : 6480338.8/38

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 18.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 2.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 20.1/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 2.9/4

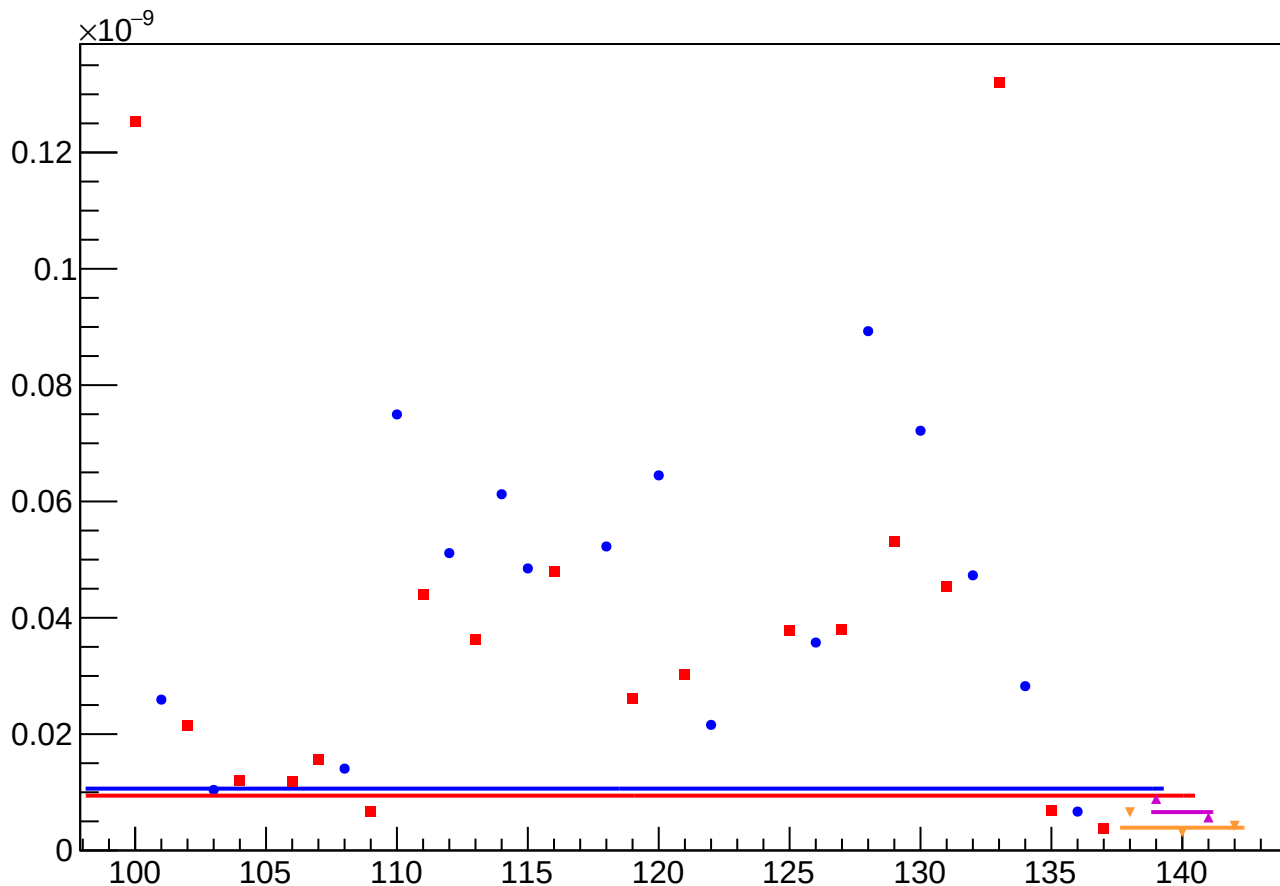
Right: 0.000+/-0.000 χ^2/NDF : 41.5/33

In: -0.000+/-0.000 χ^2/NDF : 18.9/17

Out: -0.000+/-0.000 χ^2/NDF : 25.9/20

All: -0.000+/-0.000 χ^2/NDF : 46.8/38

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 4557309.1/15

Left Out: 0.000+/-0.000

χ^2/NDF : 235101.1/2

Right Out: 0.000+/-0.000

χ^2/NDF : 4029424.5/17

Left In: 0.000+/-0.000

χ^2/NDF : 115022.7/1

Left: 0.000+/-0.000

χ^2/NDF : 640862.7/4

Right: 0.000+/-0.000

χ^2/NDF : 8619590.4/33

In: 0.000+/-0.000

χ^2/NDF : 5065514.4/17

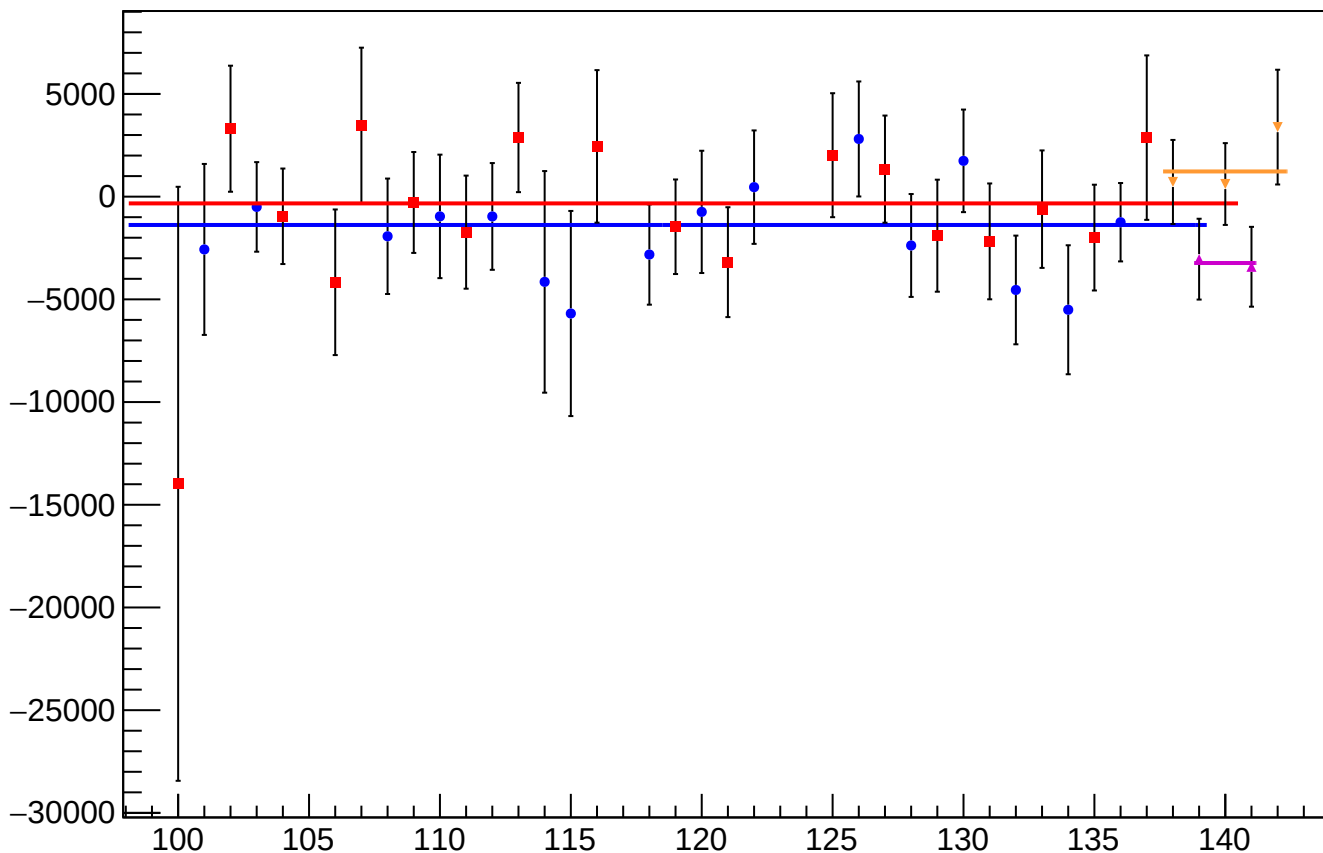
Out: 0.000+/-0.000

χ^2/NDF : 5365509.1/20

All: 0.000+/-0.000

χ^2/NDF : 11058544.3/38

reg_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1378.758+/-689.030 χ^2/NDF : 9.3/15

Left Out: 1226.601+/-1270.680 χ^2/NDF : 0.8/2

Right Out: -328.770+/-683.888 χ^2/NDF : 11.0/17

Left In: -3230.694+/-1382.489 χ^2/NDF : 0.0/1

Left: -814.543+/-935.541 χ^2/NDF : 6.4/4

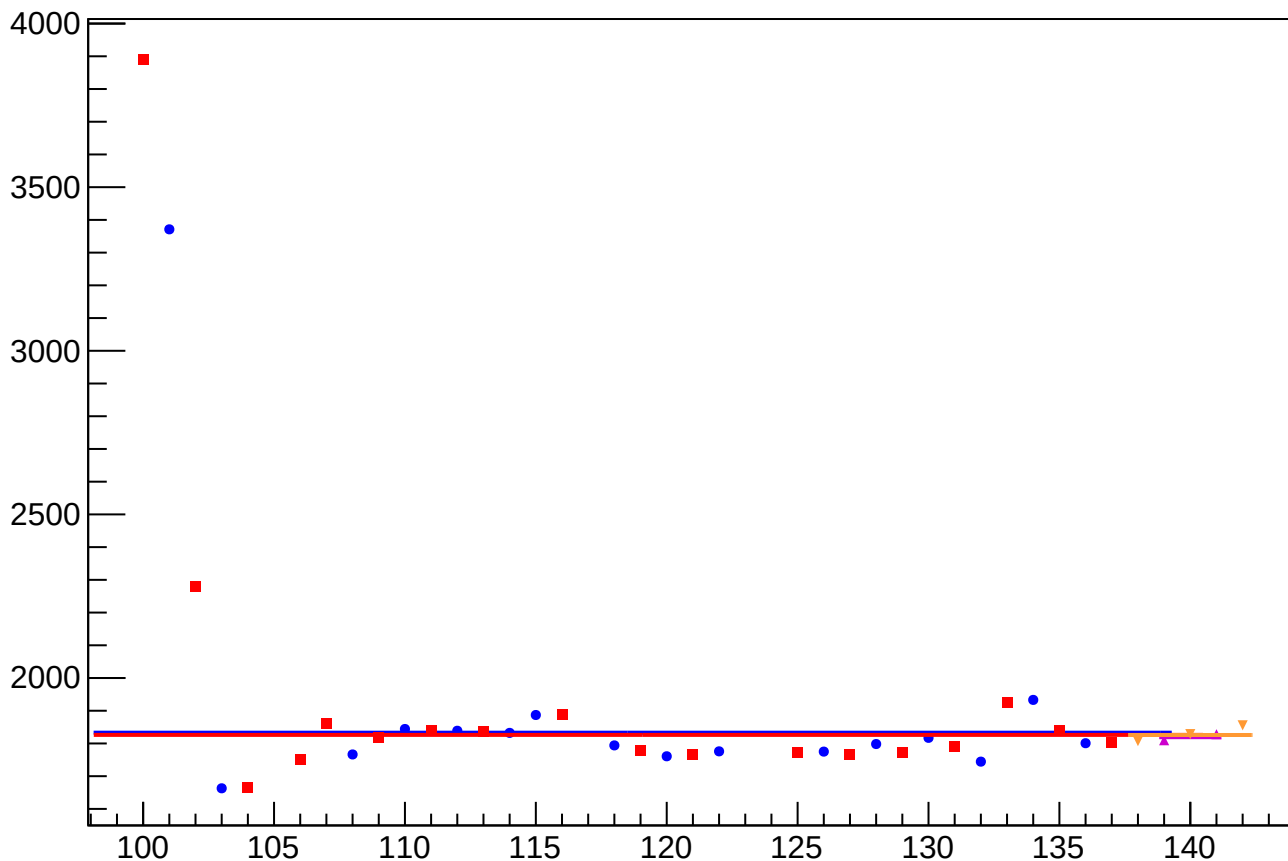
Right: -849.832+/-485.390 χ^2/NDF : 21.5/33

In: -1747.248+/-616.682 χ^2/NDF : 10.8/17

Out: 20.575+/-602.208 χ^2/NDF : 13.0/20

All: -842.347+/-430.851 χ^2/NDF : 27.9/38

reg_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1832.947+/-0.487 χ^2/NDF : 295439.4/15

Left Out: 1825.868+/-0.899 χ^2/NDF : 395.4/2

Right Out: 1826.208+/-0.484 χ^2/NDF : 103006.6/17

Left In: 1819.180+/-0.978 χ^2/NDF : 88.5/1

Left: 1822.805+/-0.662 χ^2/NDF : 509.3/4

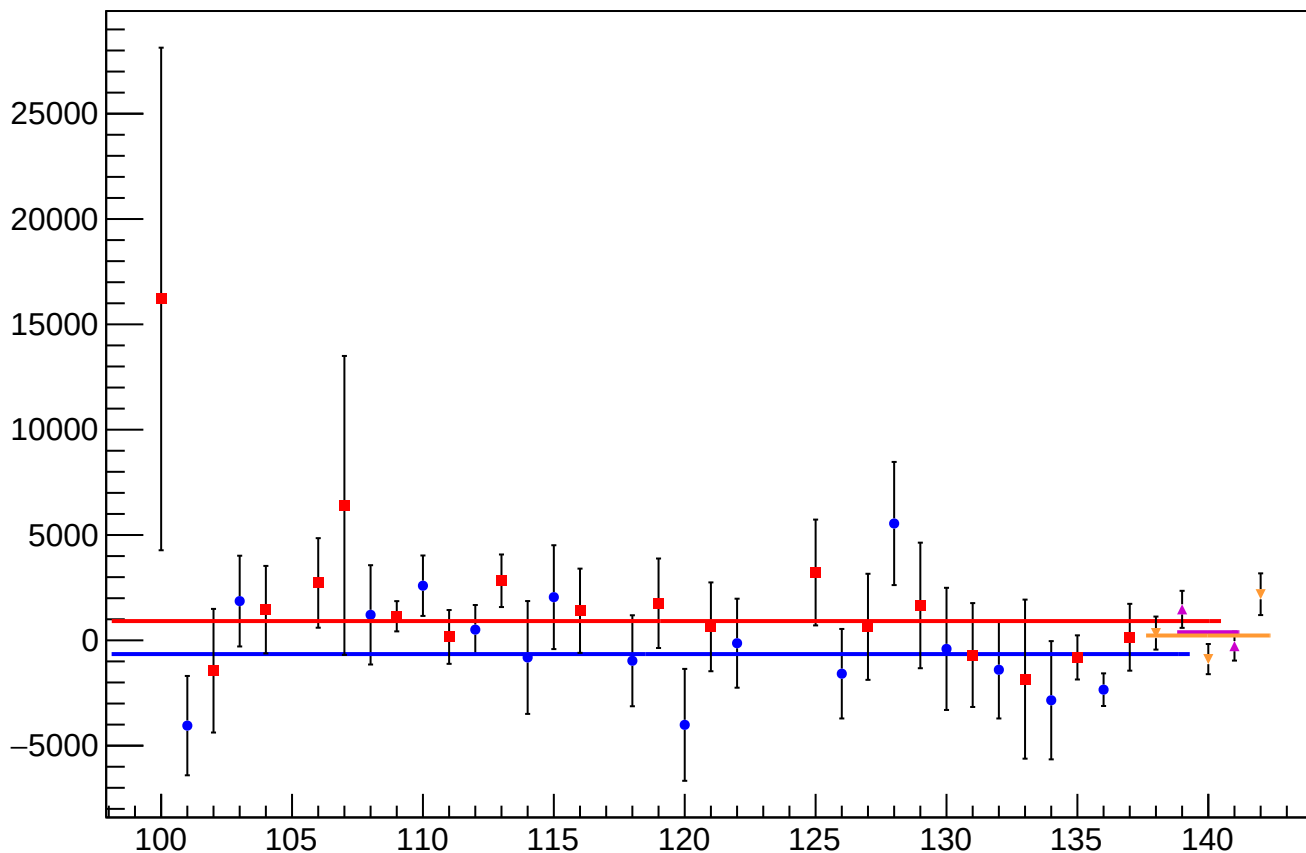
Right: 1829.552+/-0.343 χ^2/NDF : 398542.3/33

In: 1830.208+/-0.436 χ^2/NDF : 295686.8/17

Out: 1826.132+/-0.426 χ^2/NDF : 103402.1/20

All: 1828.121+/-0.305 χ^2/NDF : 399133.5/38

asym_us_dd_atlr_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -651.944 ± 442.135 χ^2/NDF : 23.2/15

Left Out: 229.626 ± 466.283 χ^2/NDF : 6.4/2

Right Out: 914.717 ± 393.421 χ^2/NDF : 11.5/17

Left In: 385.724 ± 540.884 χ^2/NDF : 2.5/1

Left: 296.176 ± 353.166 χ^2/NDF : 8.9/4

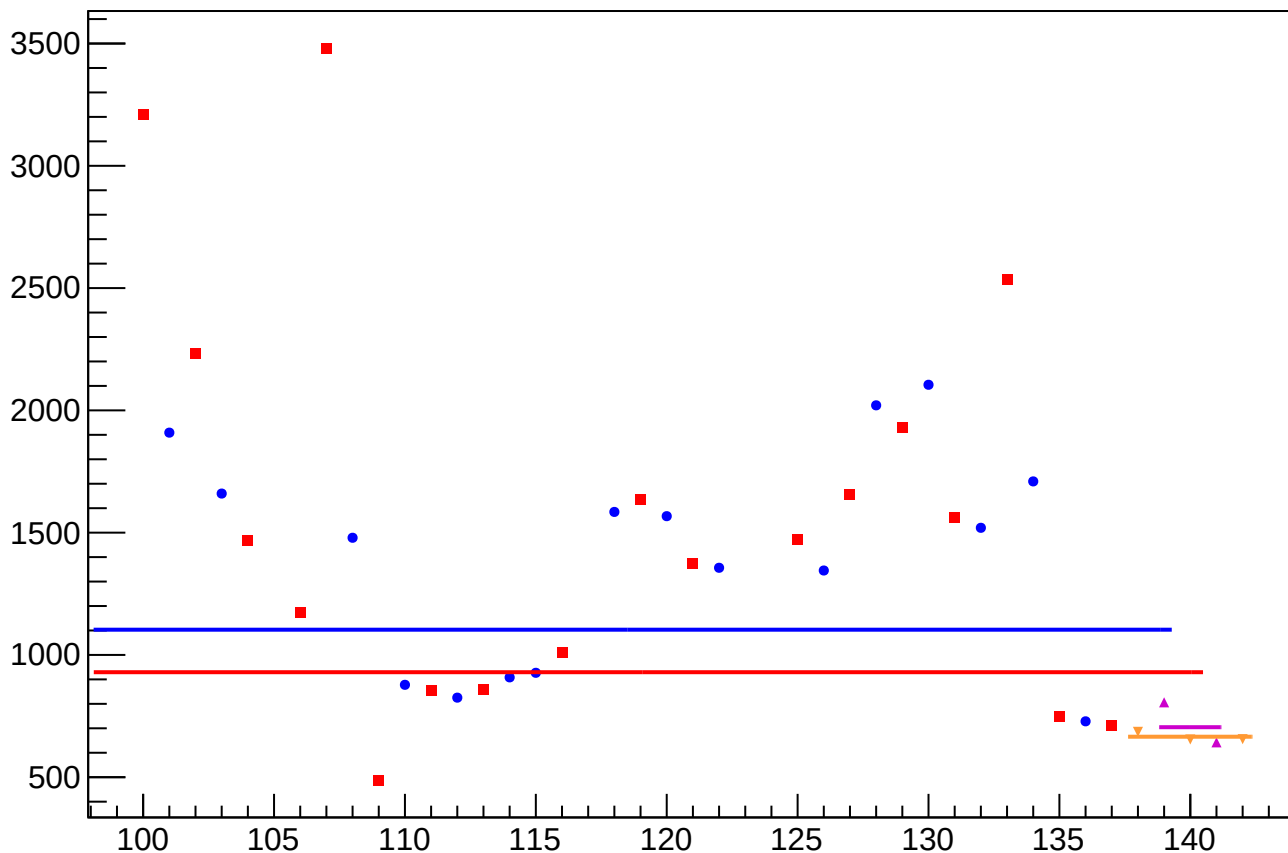
Right: 222.415 ± 293.910 χ^2/NDF : 41.8/33

In: -236.308 ± 342.320 χ^2/NDF : 27.9/17

Out: 629.820 ± 300.690 χ^2/NDF : 19.2/20

All: 252.597 ± 225.912 χ^2/NDF : 50.7/38

asym_us_dd_atlr_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1103.183+/-0.313 χ^2/NDF : 1878176.1/15

Left Out: 665.597+/-0.330 χ^2/NDF : 1993.3/2

Right Out: 929.356+/-0.278 χ^2/NDF : 3054092.4/17

Left In: 704.510+/-0.382 χ^2/NDF : 43042.9/1

Left: 682.187+/-0.250 χ^2/NDF : 50974.6/4

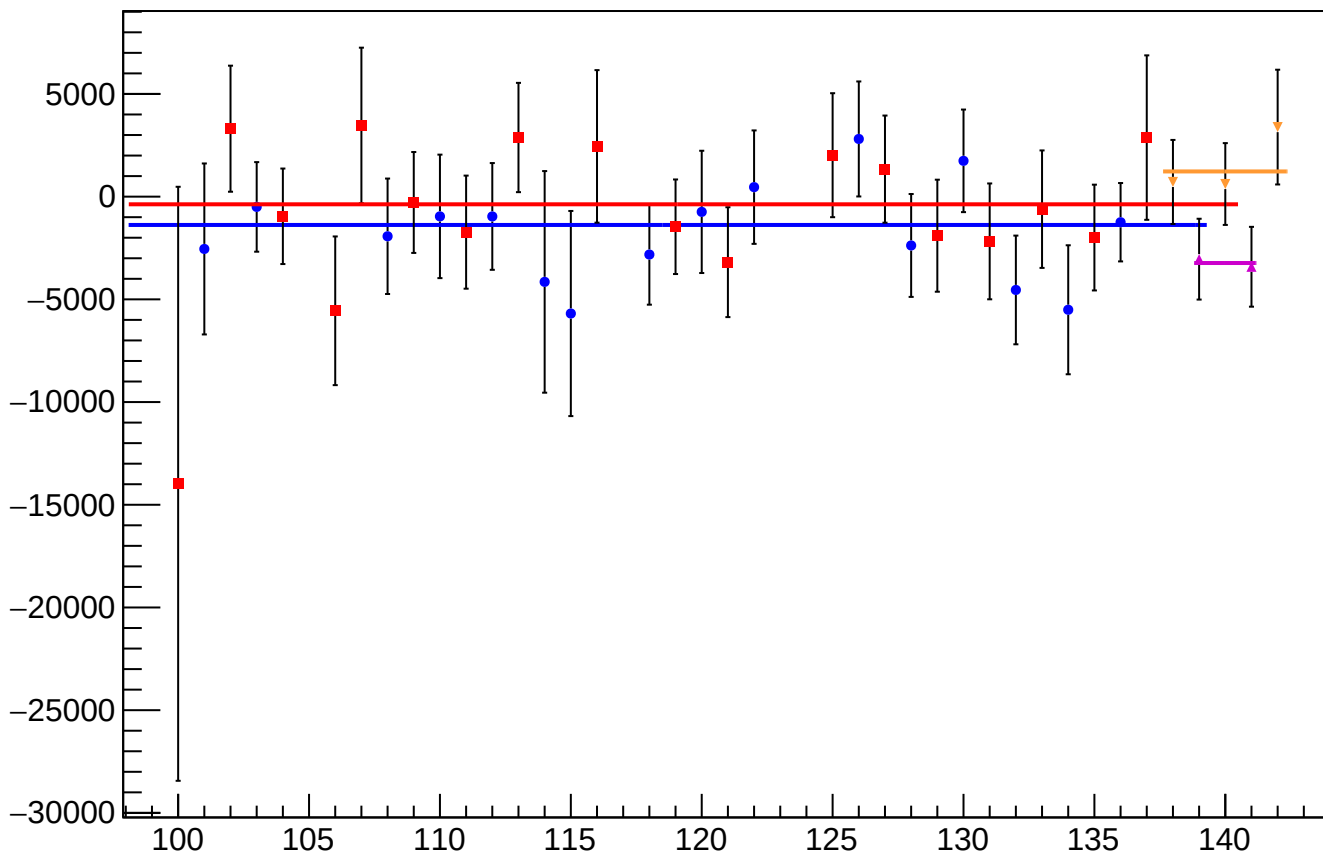
Right: 1006.170+/-0.208 χ^2/NDF : 5104800.3/33

In: 943.495+/-0.242 χ^2/NDF : 2572562.4/17

Out: 819.671+/-0.213 χ^2/NDF : 3429912.6/20

All: 873.600+/-0.160 χ^2/NDF : 6150188.1/38

cor_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1378.133+/-689.030 χ^2/NDF : 9.3/15

Left Out: 1226.873+/-1270.680 χ^2/NDF : 0.8/2

Right Out: -372.534+/-684.408 χ^2/NDF : 12.0/17

Left In: -3230.873+/-1382.489 χ^2/NDF : 0.0/1

Left: -814.477+/-935.541 χ^2/NDF : 6.4/4

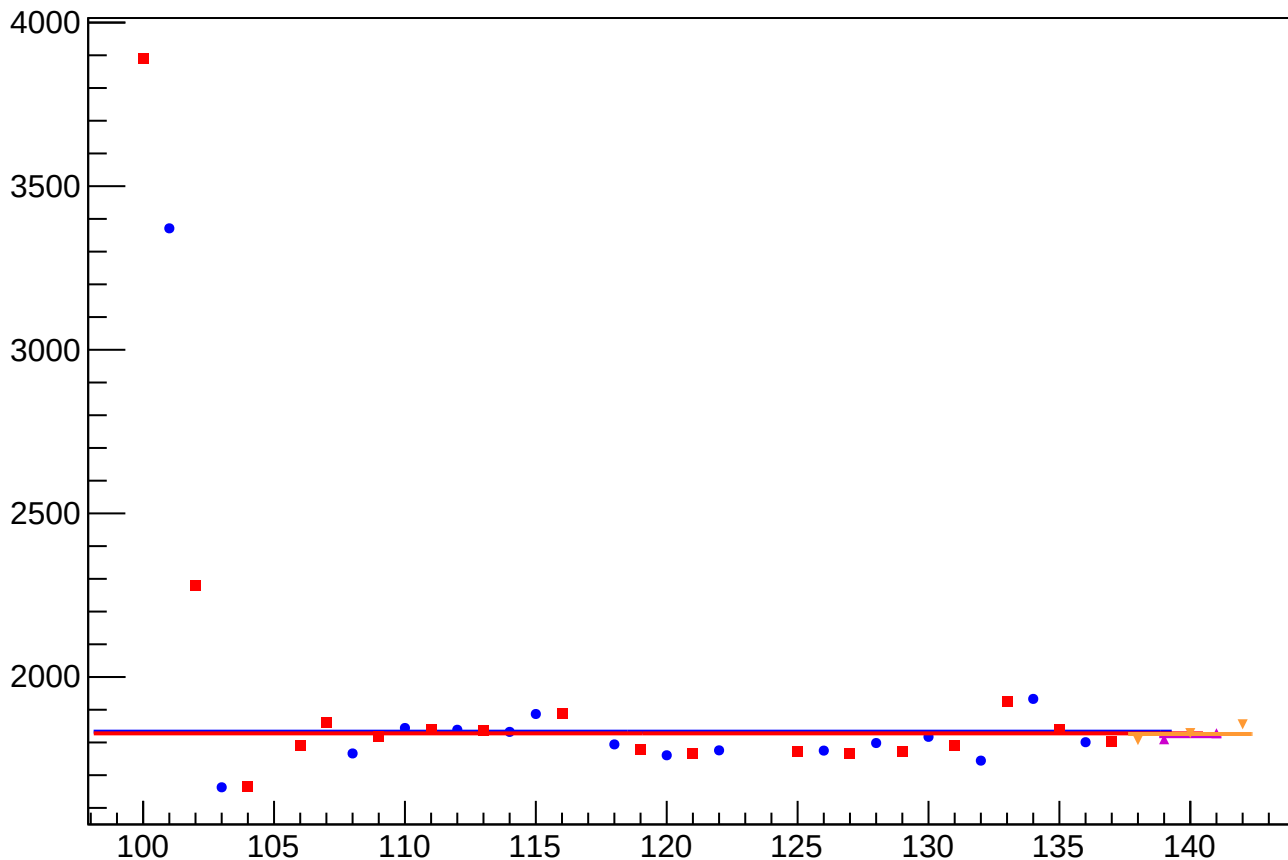
Right: -871.950+/-485.576 χ^2/NDF : 22.3/33

In: -1746.783+/-616.682 χ^2/NDF : 10.8/17

Out: -12.874+/-602.563 χ^2/NDF : 13.9/20

All: -859.753+/-430.981 χ^2/NDF : 28.7/38

cor_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1832.947+/-0.487 χ^2/NDF : 295441.2/15

Left Out: 1825.868+/-0.899 χ^2/NDF : 395.4/2

Right Out: 1827.785+/-0.484 χ^2/NDF : 102270.3/17

Left In: 1819.180+/-0.978 χ^2/NDF : 88.5/1

Left: 1822.805+/-0.662 χ^2/NDF : 509.3/4

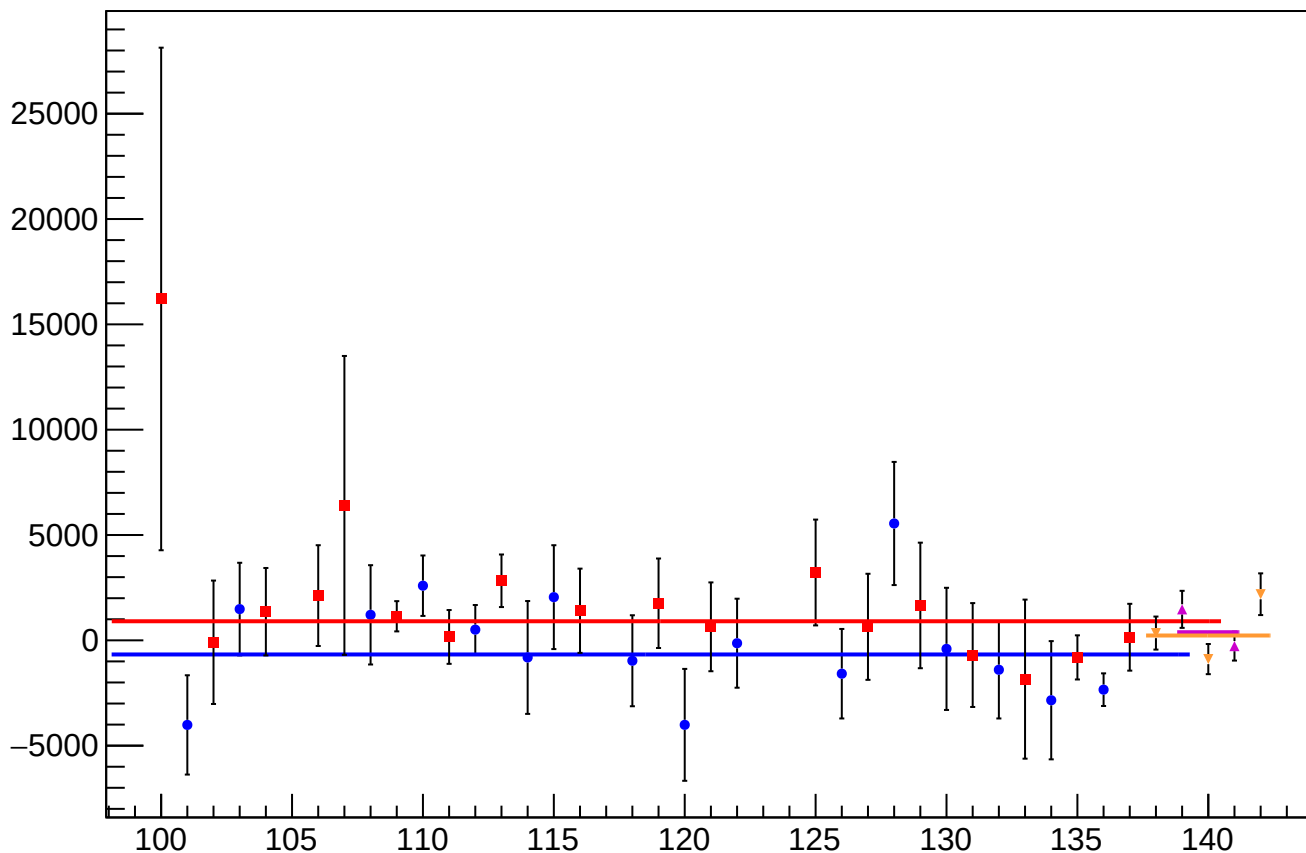
Right: 1830.348+/-0.343 χ^2/NDF : 397768.0/33

In: 1830.207+/-0.436 χ^2/NDF : 295688.6/17

Out: 1827.354+/-0.426 χ^2/NDF : 102669.2/20

All: 1828.748+/-0.305 χ^2/NDF : 398379.7/38

asym_us_dd_atlr_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -670.539 ± 442.505 $\chi^2/\text{NDF}: 22.8/15$

Left Out: 229.543 ± 466.288 $\chi^2/\text{NDF}: 6.4/2$

Right Out: 905.874 ± 394.814 $\chi^2/\text{NDF}: 10.5/17$

Left In: 385.782 ± 540.878 $\chi^2/\text{NDF}: 2.4/1$

Left: 296.155 ± 353.167 $\chi^2/\text{NDF}: 8.9/4$

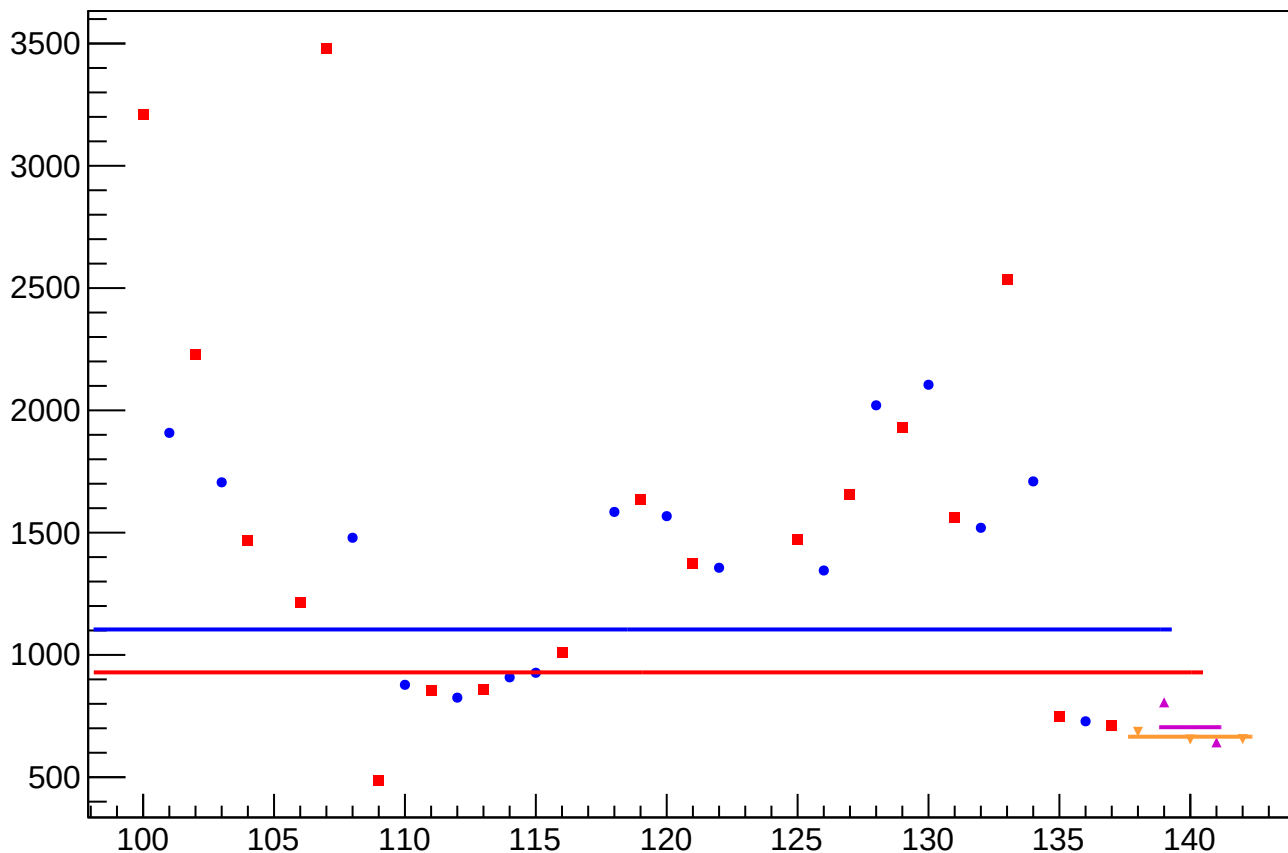
Right: 207.164 ± 294.599 $\chi^2/\text{NDF}: 40.3/33$

In: -247.001 ± 342.490 $\chi^2/\text{NDF}: 27.5/17$

Out: 623.462 ± 301.312 $\chi^2/\text{NDF}: 18.1/20$

All: 243.679 ± 226.225 $\chi^2/\text{NDF}: 49.3/38$

asym_us_dd_atlr_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1104.103+/-0.313 χ^2/NDF : 1894482.2/15

Left Out: 665.607+/-0.330 χ^2/NDF : 1990.5/2

Right Out: 928.629+/-0.279 χ^2/NDF : 3054381.5/17

Left In: 704.500+/-0.382 χ^2/NDF : 43057.4/1

Left: 682.189+/-0.250 χ^2/NDF : 50980.2/4

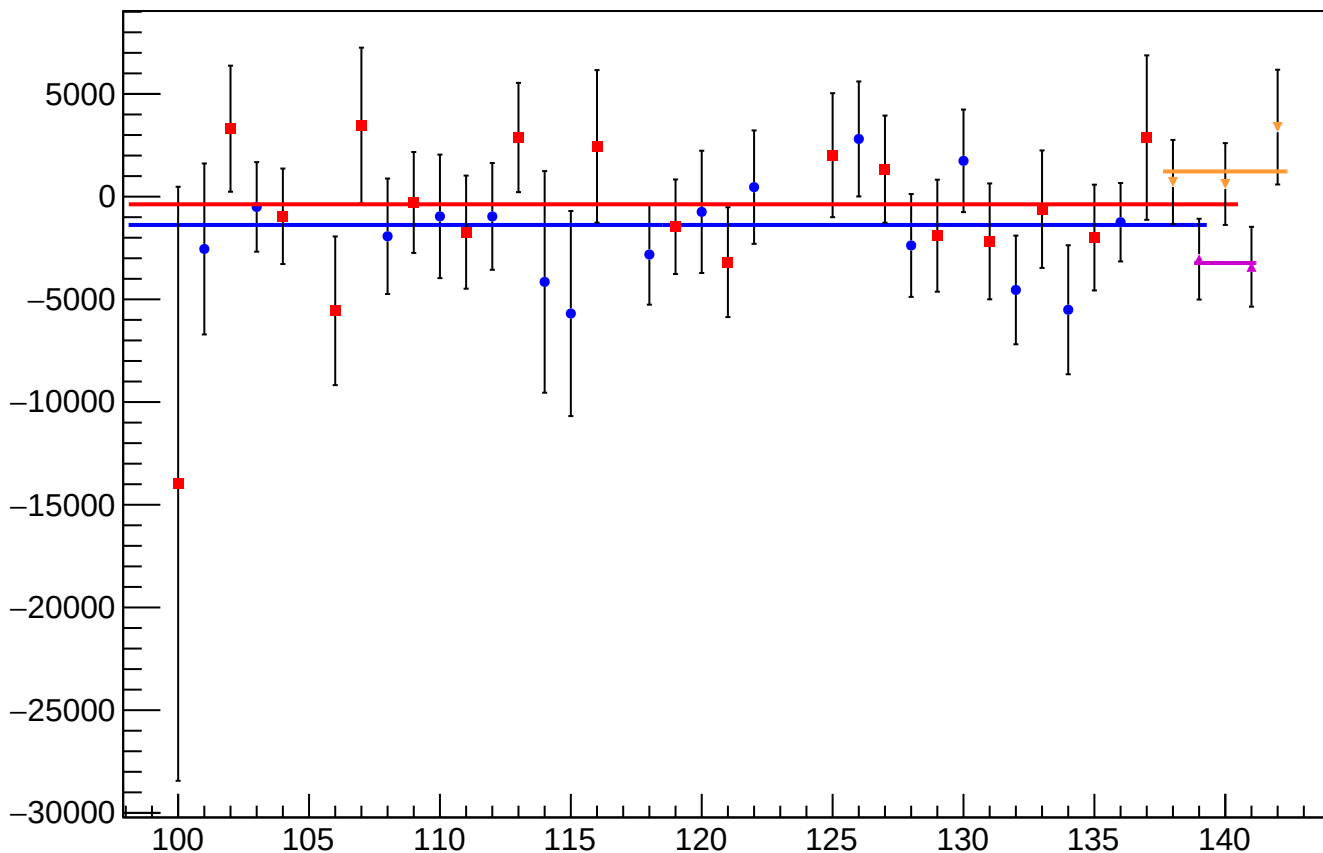
Right: 1006.404+/-0.208 χ^2/NDF : 5123967.6/33

In: 943.879+/-0.242 χ^2/NDF : 2591493.1/17

Out: 818.800+/-0.213 χ^2/NDF : 3427012.6/20

All: 873.372+/-0.160 χ^2/NDF : 6168873.5/38

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1378.133+/-689.030 χ^2/NDF : 9.3/15

Left Out: 1226.873+/-1270.680 χ^2/NDF : 0.8/2

Right Out: -372.534+/-684.408 χ^2/NDF : 12.0/17

Left In: -3230.873+/-1382.489 χ^2/NDF : 0.0/1

Left: -814.477+/-935.541 χ^2/NDF : 6.4/4

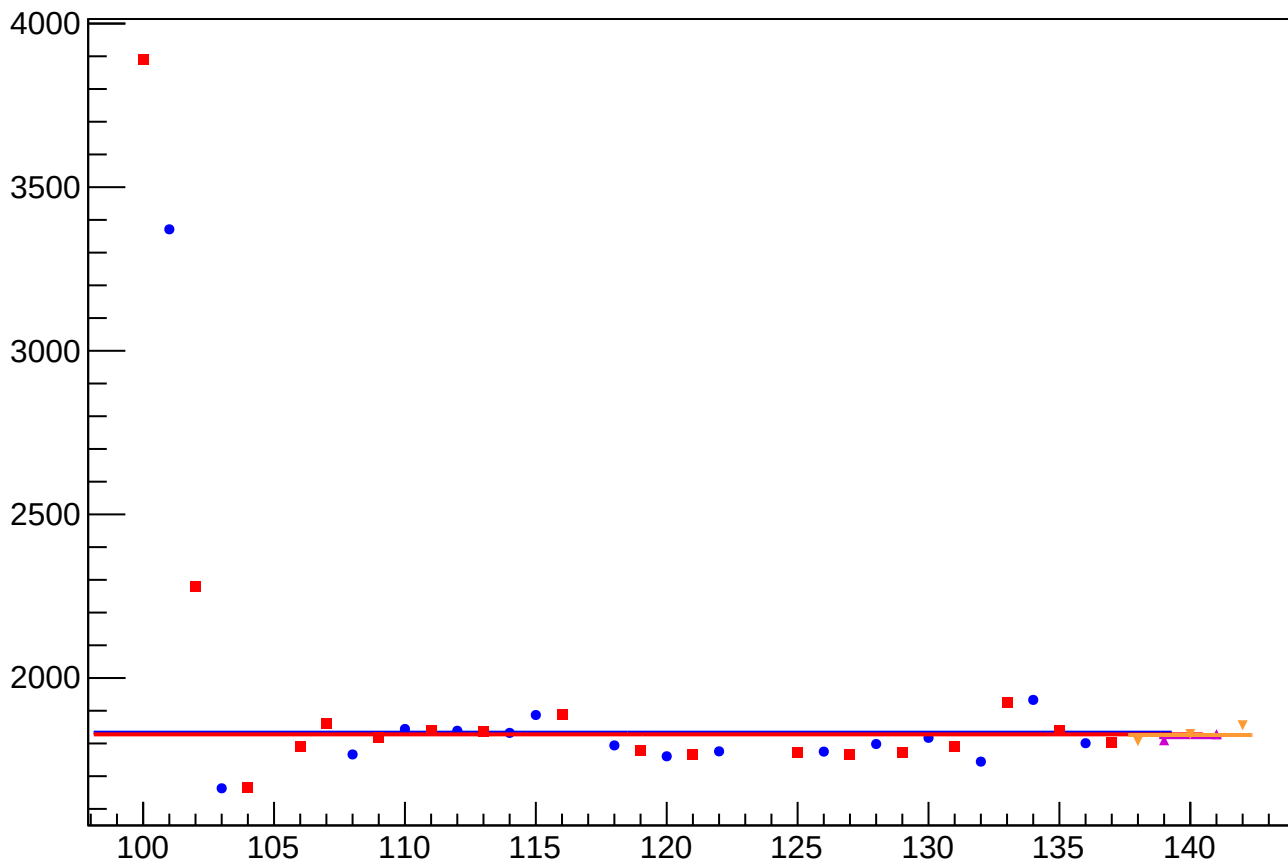
Right: -871.950+/-485.576 χ^2/NDF : 22.3/33

In: -1746.783+/-616.682 χ^2/NDF : 10.8/17

Out: -12.874+/-602.563 χ^2/NDF : 13.9/20

All: -859.753+/-430.981 χ^2/NDF : 28.7/38

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1832.947+/-0.487 χ^2/NDF : 295441.2/15

Left Out: 1825.868+/-0.899 χ^2/NDF :395.4/2

Right Out: 1827.785+/-0.484 χ^2/NDF : 102270.3/17

Left In: 1819.180+/-0.978 χ^2/NDF :88.5/1

Left: 1822.805+/-0.662 χ^2/NDF : 509.3/4

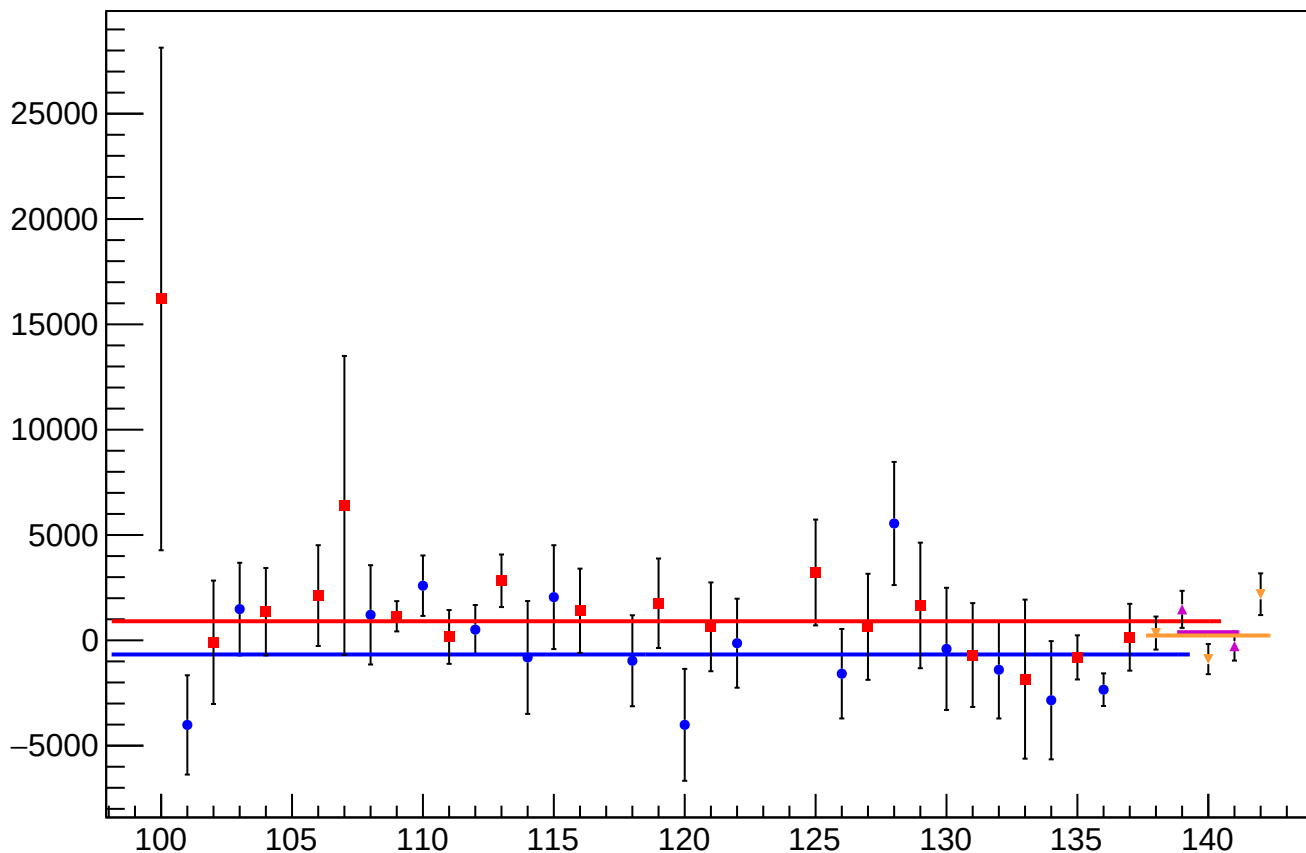
Right: 1830.348+/-0.343 χ^2/NDF : 397768.0/33

In: 1830.207+/-0.436 χ^2/NDF :295688.6/17

Out: 1827.354+/-0.426 χ^2/NDF :102669.2/20

All: 1828.748+/-0.305 χ^2/NDF : 398379.7/38

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -670.539+/-442.505 χ^2/NDF : 22.8/15

Left Out: 229.543+/-466.288 χ^2/NDF :6.4/2

Right Out: 905.874+/-394.814 χ^2/NDF : 10.5/17

Left In: 385.782+/-540.878 χ^2/NDF :2.4/1

Left: 296.155+/-353.167 χ^2/NDF : 8.9/4

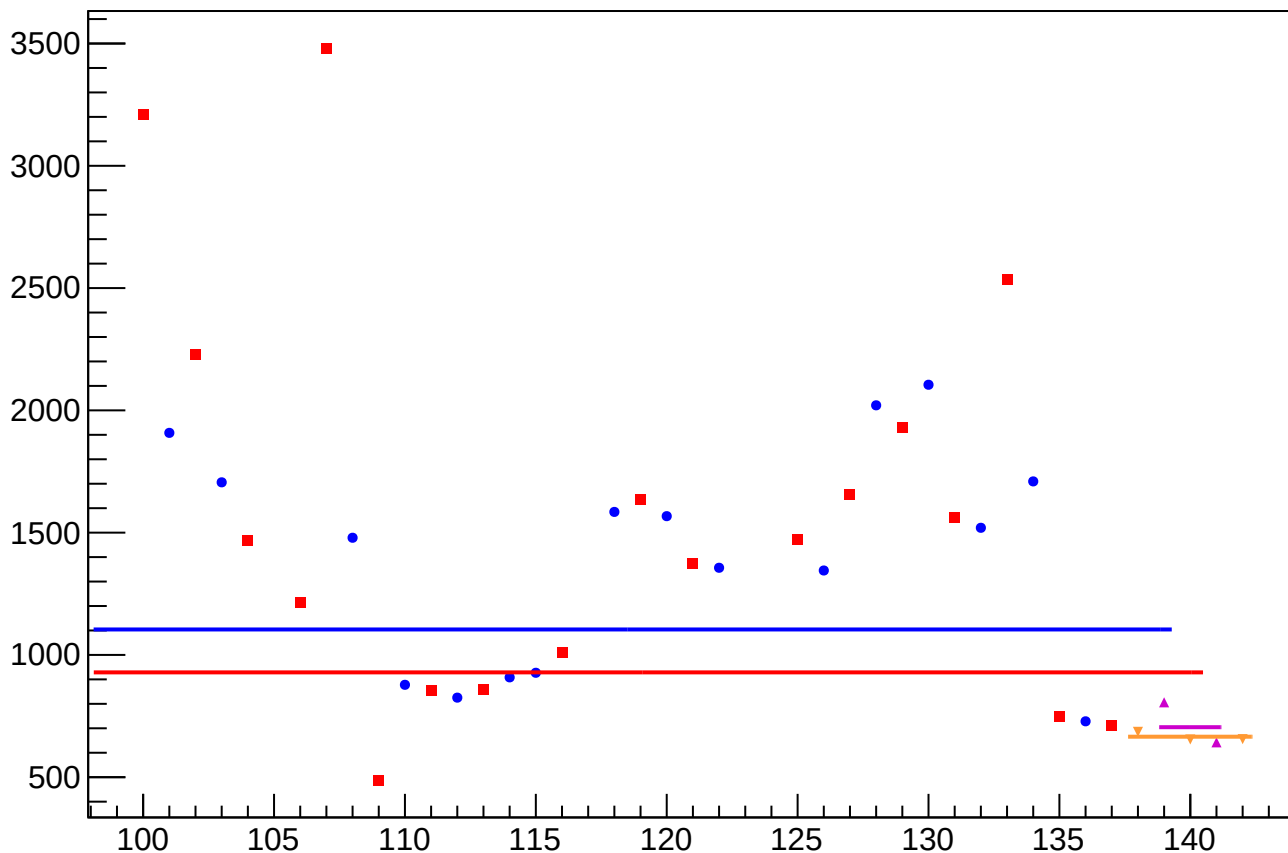
Right: 207.164+/-294.599 χ^2/NDF : 40.3/33

In: -247.001+/-342.490 χ^2/NDF :27.5/17

Out: 623.462+/-301.312 χ^2/NDF :18.1/20

All: 243.679+/-226.225 χ^2/NDF : 49.3/38

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1104.103+/-0.313 χ^2/NDF : 1894482.2/15

Left Out: 665.607+/-0.330 χ^2/NDF : 1990.5/2

Right Out: 928.629+/-0.279 χ^2/NDF : 3054381.5/17

Left In: 704.500+/-0.382 χ^2/NDF : 43057.4/1

Left: 682.189+/-0.250 χ^2/NDF : 50980.2/4

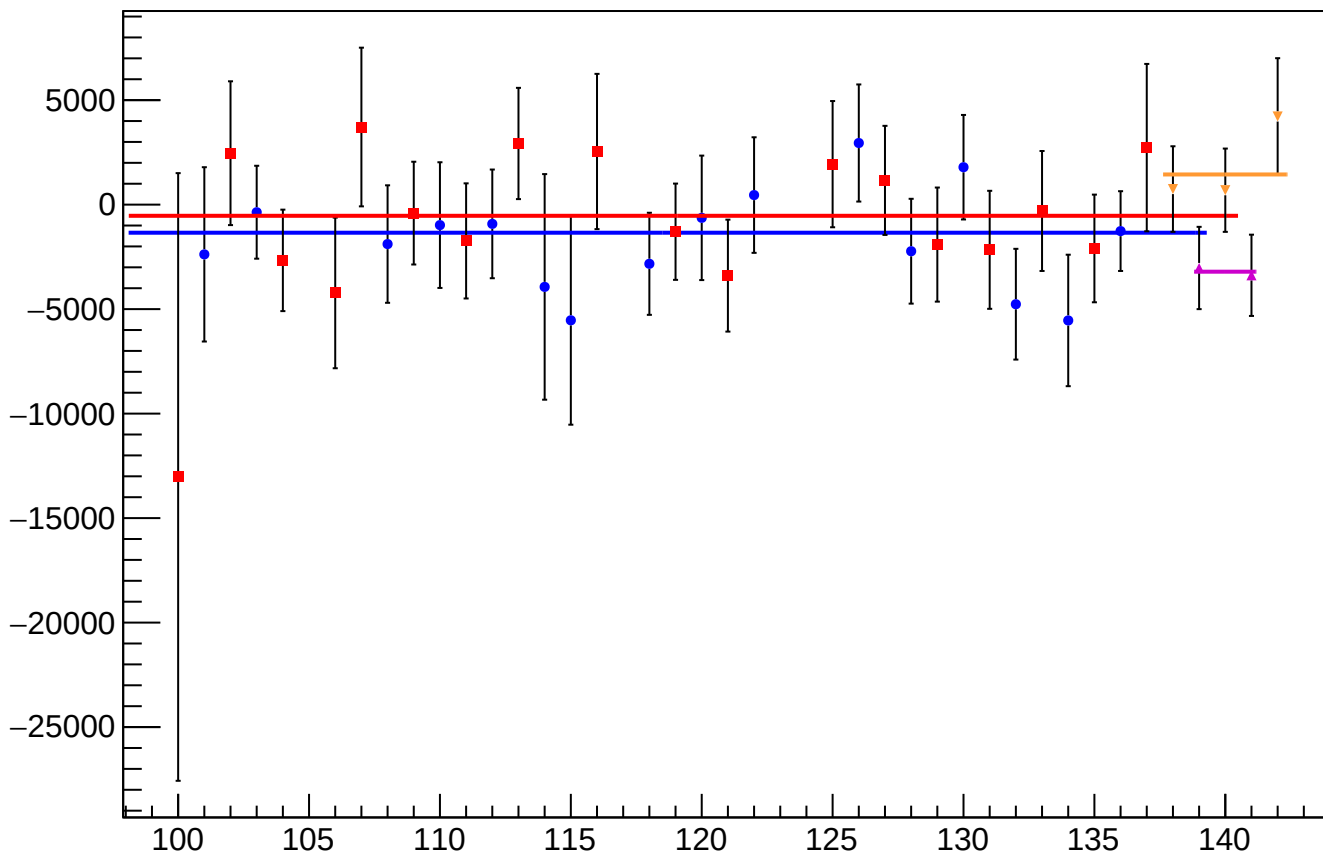
Right: 1006.404+/-0.208 χ^2/NDF : 5123967.6/33

In: 943.879+/-0.242 χ^2/NDF : 2591493.1/17

Out: 818.800+/-0.213 χ^2/NDF : 3427012.6/20

All: 873.372+/-0.160 χ^2/NDF : 6168873.5/38

dit_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1343.952 $\pm$ 690.940 χ^2 /NDF: 9.6/15

Left Out: 1443.606 $\pm$ 1271.200 χ^2 /NDF:1.2/2

Right Out: -534.194 $\pm$ 690.970 χ^2 /NDF: 11.1/17

Left In: -3208.997 $\pm$ 1383.435 χ^2 /NDF:0.0/1

Left: -686.339 $\pm$ 936.041 χ^2 /NDF: 7.4/4

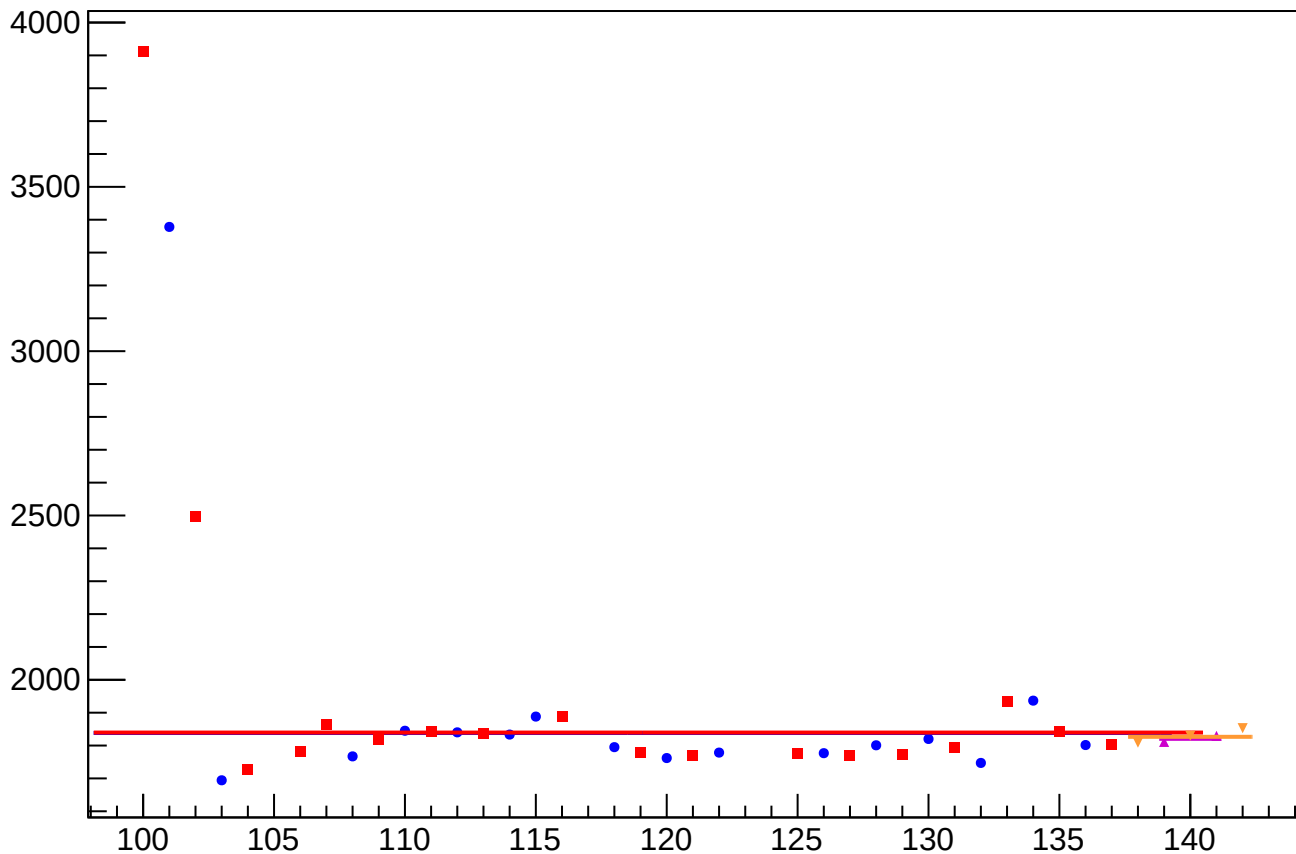
Right: -939.091 $\pm$ 488.579 χ^2 /NDF: 21.4/33

In: -1716.290 $\pm$ 618.135 χ^2 /NDF:11.1/17

Out: -83.117 $\pm$ 607.083 χ^2 /NDF:14.2/20

All: -884.974 $\pm$ 433.127 χ^2 /NDF: 28.9/38

dit_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1838.159+/-0.489 χ^2/NDF : 291984.0/15

Left Out: 1826.553+/-0.899 χ^2/NDF : 334.3/2

Right Out: 1839.517+/-0.489 χ^2/NDF : 128253.5/17

Left In: 1820.419+/-0.978 χ^2/NDF : 87.7/1

Left: 1823.745+/-0.662 χ^2/NDF : 443.4/4

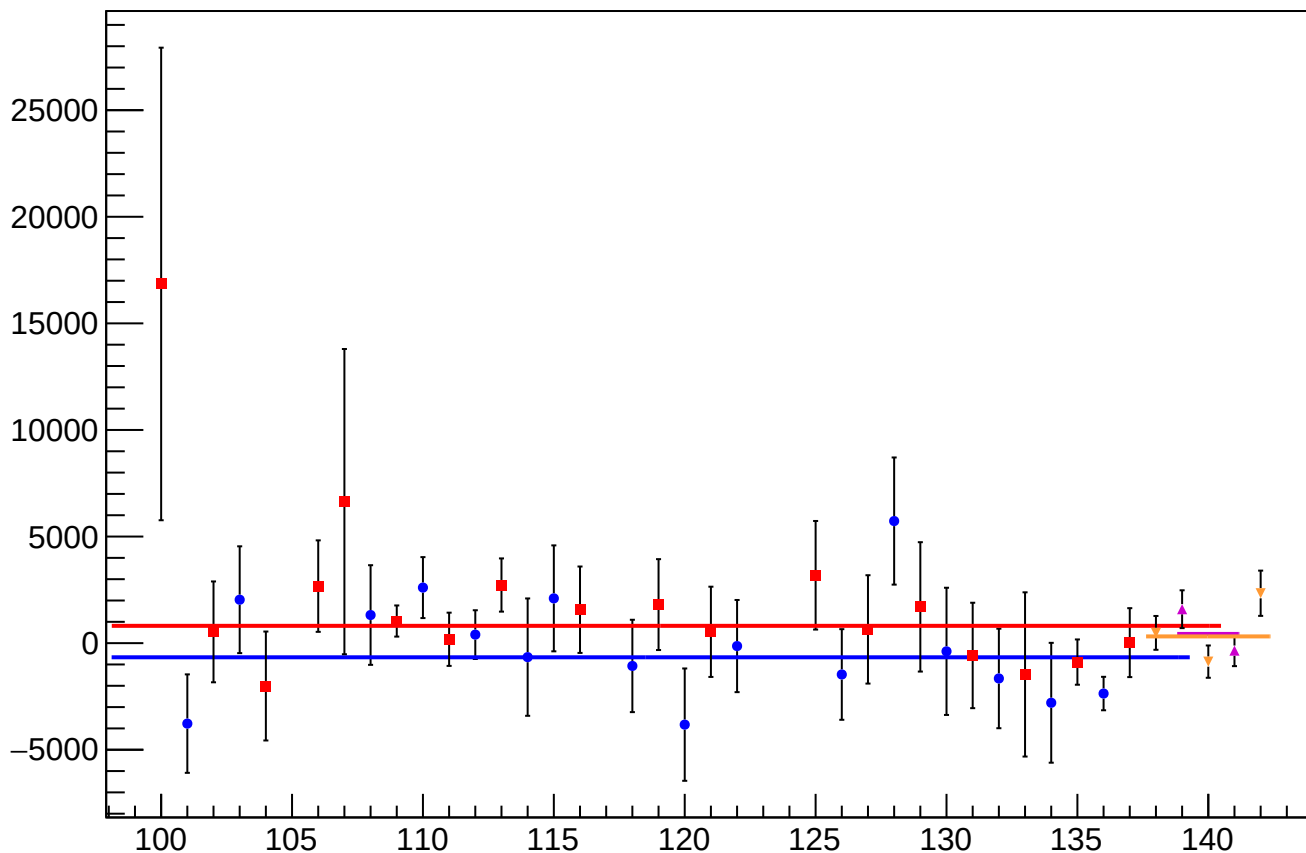
Right: 1838.838+/-0.345 χ^2/NDF : 420241.4/33

In: 1834.617+/-0.437 χ^2/NDF : 292335.0/17

Out: 1836.560+/-0.429 χ^2/NDF : 128748.4/20

All: 1835.606+/-0.306 χ^2/NDF : 421093.5/38

asym_us_dd_atlr_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -663.489 ± 445.903 $\chi^2/\text{NDF}: 22.8/15$

Left Out: 315.994 ± 486.843 $\chi^2/\text{NDF}: 6.1/2$

Right Out: 812.187 ± 397.187 $\chi^2/\text{NDF}: 12.2/17$

Left In: 432.033 ± 562.705 $\chi^2/\text{NDF}: 2.9/1$

Left: 365.670 ± 368.172 $\chi^2/\text{NDF}: 9.0/4$

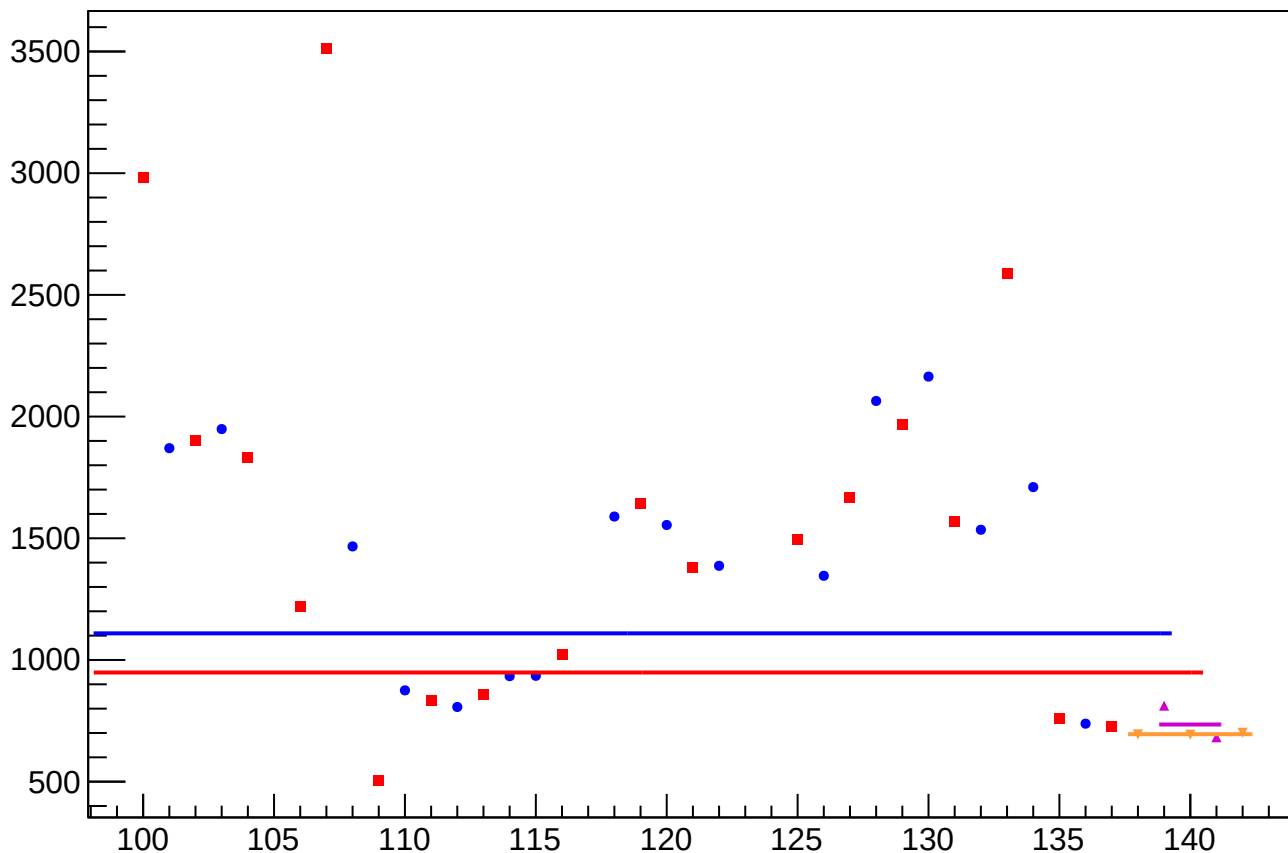
Right: 159.335 ± 296.587 $\chi^2/\text{NDF}: 41.1/33$

In: -240.916 ± 349.479 $\chi^2/\text{NDF}: 28.0/17$

Out: 613.901 ± 307.758 $\chi^2/\text{NDF}: 19.0/20$

All: 240.538 ± 230.967 $\chi^2/\text{NDF}: 50.3/38$

asym_us_dd_atlr_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1109.362 $\pm$ 0.315 χ^2 /NDF: 1973363.9/15

Left Out: 695.001 $\pm$ 0.344 χ^2 /NDF: 79.9/2

Right Out: 948.438 $\pm$ 0.281 χ^2 /NDF: 3053670.4/17

Left In: 734.858 $\pm$ 0.398 χ^2 /NDF: 25592.2/1

Left: 712.063 $\pm$ 0.260 χ^2 /NDF: 31410.6/4

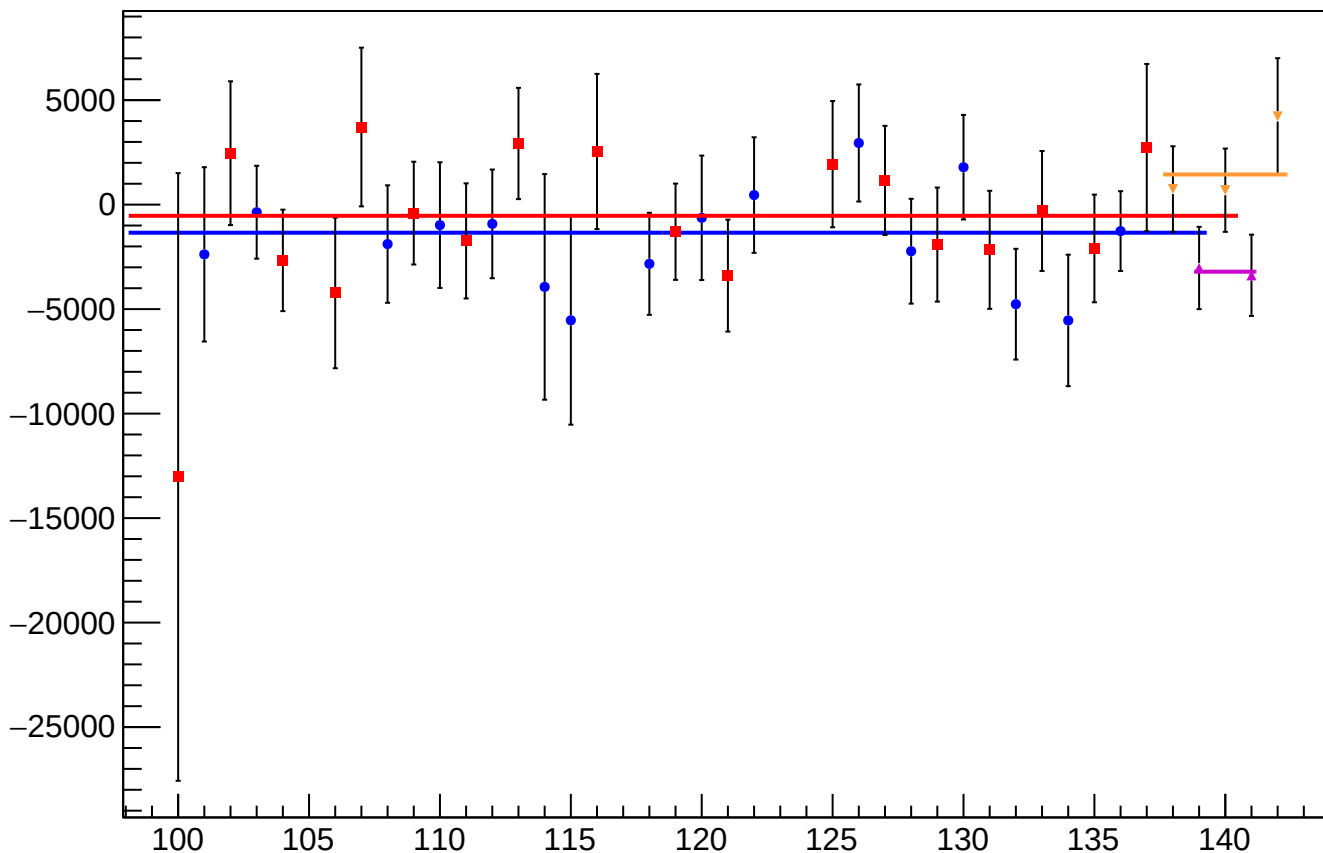
Right: 1019.632 $\pm$ 0.210 χ^2 /NDF: 5172280.0/33

In: 964.905 $\pm$ 0.247 χ^2 /NDF: 2543136.0/17

Out: 847.161 $\pm$ 0.218 χ^2 /NDF: 3379154.8/20

All: 898.589 $\pm$ 0.163 χ^2 /NDF: 6050155.1/38

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1343.955+/-690.940 χ^2/NDF : 9.6/15

Left Out: 1443.611+/-1271.200 χ^2/NDF : 1.2/2

Right Out: -534.199+/-690.970 χ^2/NDF : 11.1/17

Left In: -3208.983+/-1383.435 χ^2/NDF : 0.0/1

Left: -686.330+/-936.041 χ^2/NDF : 7.4/4

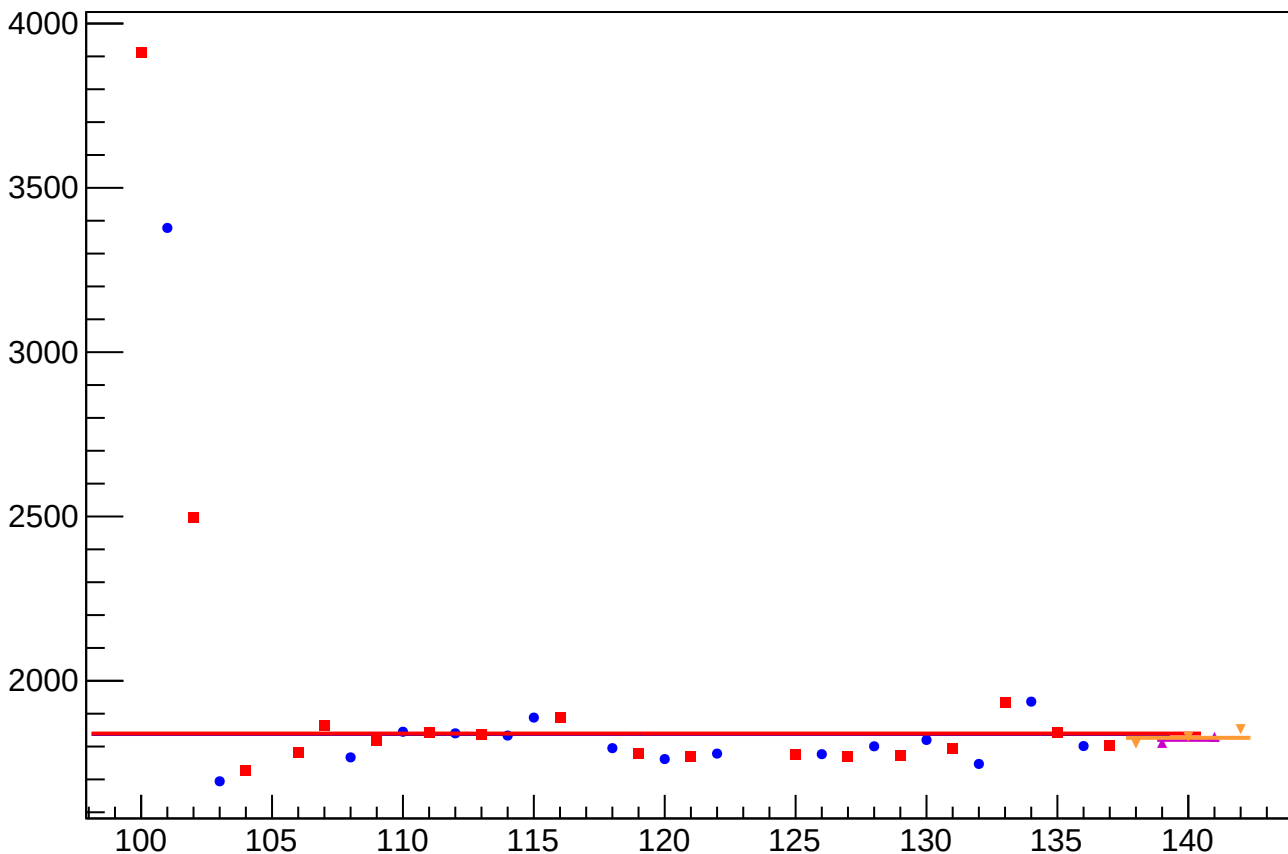
Right: -939.094+/-488.579 χ^2/NDF : 21.4/33

In: -1716.290+/-618.135 χ^2/NDF : 11.1/17

Out: -83.119+/-607.083 χ^2/NDF : 14.2/20

All: -884.974+/-433.127 χ^2/NDF : 28.9/38

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1838.159+/-0.489 χ^2/NDF : 291984.0/15

Left Out: 1826.553+/-0.899 χ^2/NDF : 334.3/2

Right Out: 1839.517+/-0.489 χ^2/NDF : 128253.6/17

Left In: 1820.419+/-0.978 χ^2/NDF : 87.7/1

Left: 1823.745+/-0.662 χ^2/NDF : 443.4/4

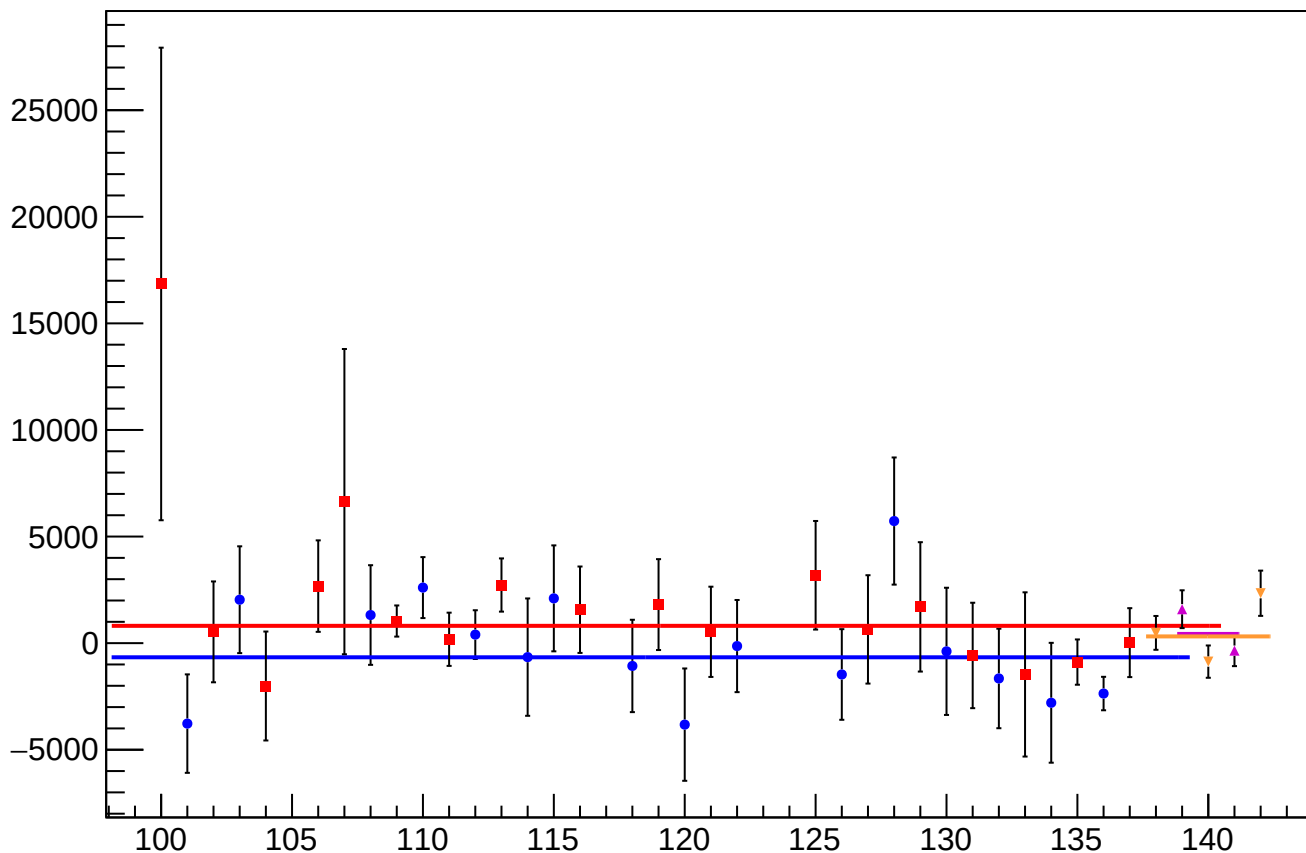
Right: 1838.838+/-0.345 χ^2/NDF : 420241.4/33

In: 1834.617+/-0.437 χ^2/NDF : 292335.0/17

Out: 1836.561+/-0.429 χ^2/NDF : 128748.5/20

All: 1835.606+/-0.306 χ^2/NDF : 421093.5/38

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -663.476+/-445.904 χ^2/NDF : 22.8/15

Left Out: 315.999+/-486.848 χ^2/NDF : 6.1/2

Right Out: 812.194+/-397.187 χ^2/NDF : 12.2/17

Left In: 432.026+/-562.711 χ^2/NDF : 2.9/1

Left: 365.669+/-368.176 χ^2/NDF : 9.0/4

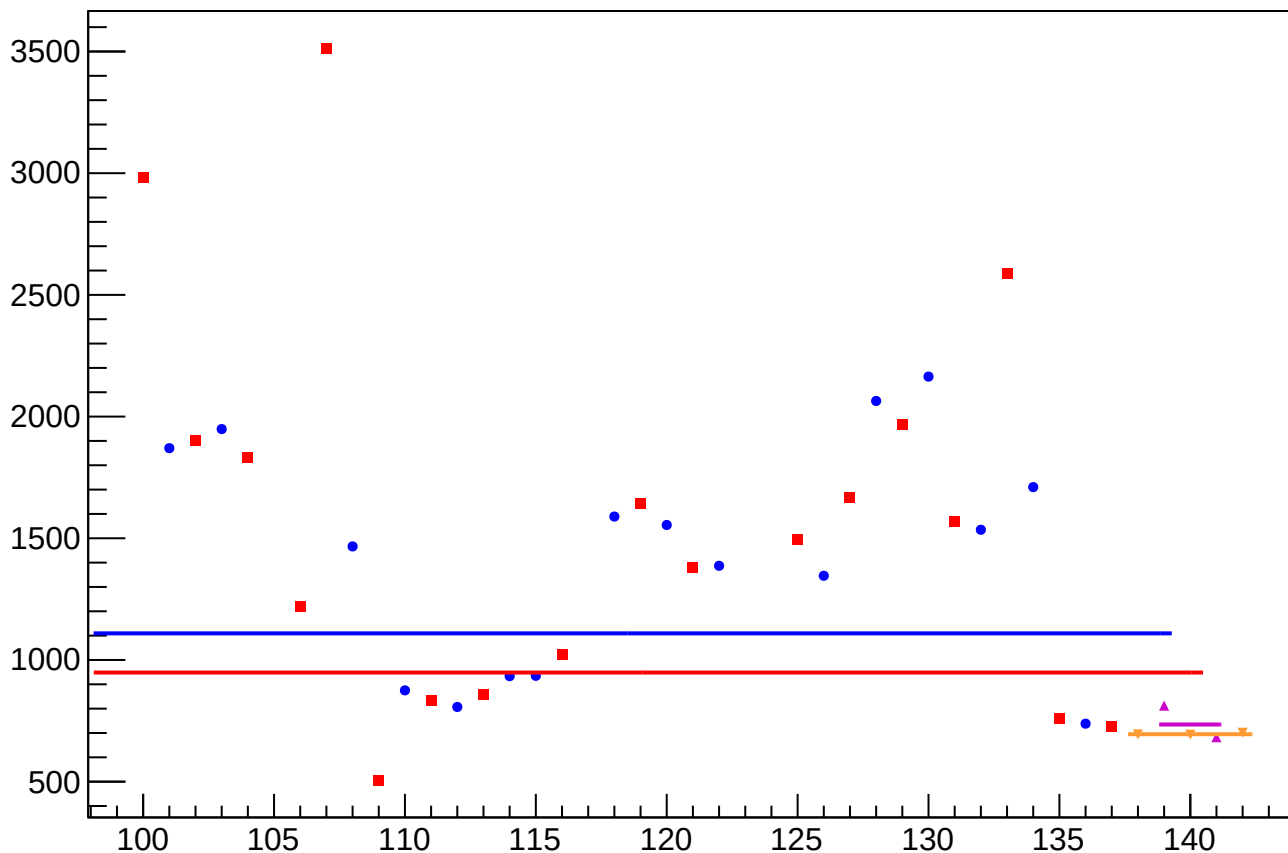
Right: 159.344+/-296.588 χ^2/NDF : 41.1/33

In: -240.915+/-349.481 χ^2/NDF : 28.0/17

Out: 613.909+/-307.760 χ^2/NDF : 19.0/20

All: 240.542+/-230.968 χ^2/NDF : 50.3/38

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1109.365+/-0.315 χ^2/NDF : 1973324.5/15

Left Out: 695.008+/-0.344 χ^2/NDF : 79.8/2

Right Out: 948.441+/-0.281 χ^2/NDF : 3053644.5/17

Left In: 734.865+/-0.398 χ^2/NDF : 25597.6/1

Left: 712.071+/-0.260 χ^2/NDF : 31415.8/4

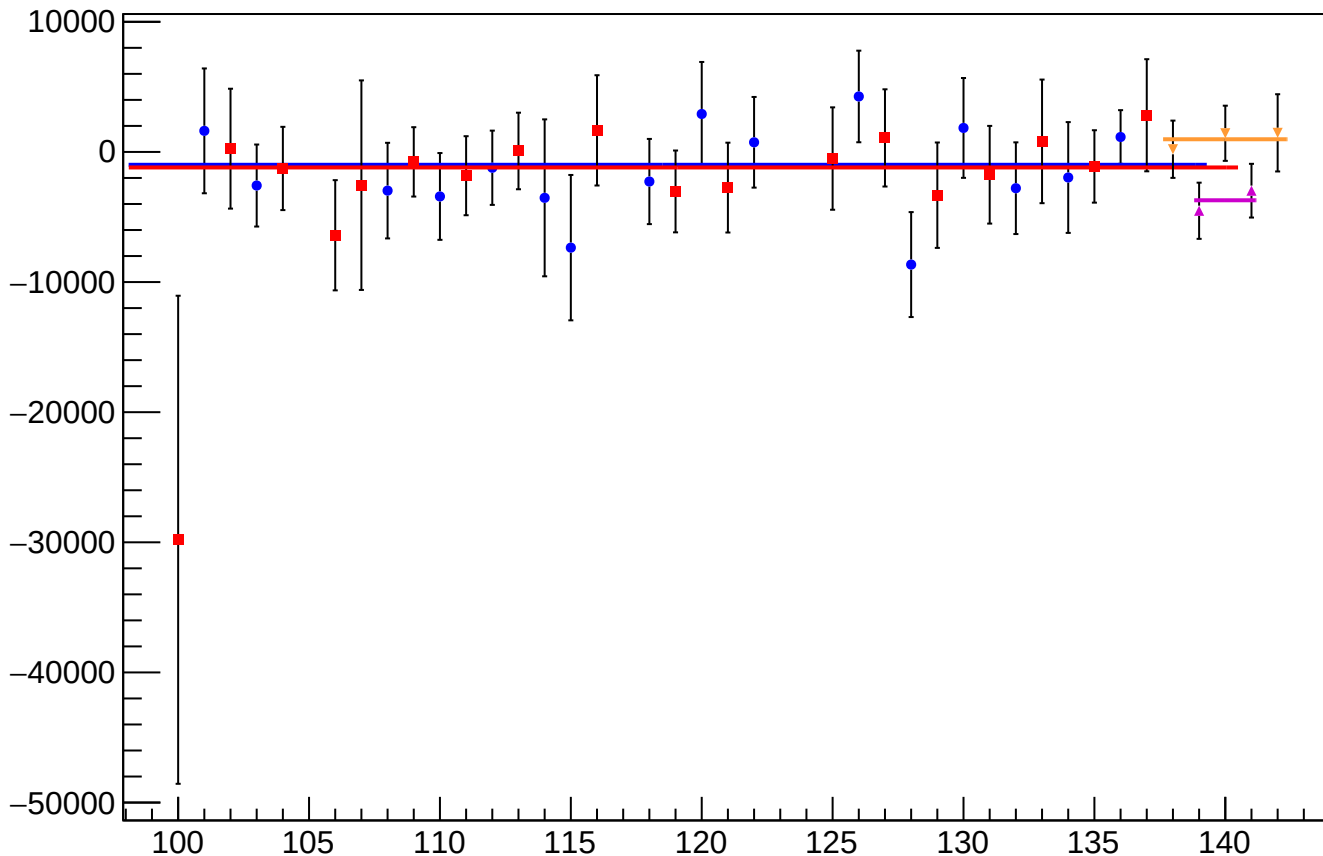
Right: 1019.635+/-0.210 χ^2/NDF : 5172215.4/33

In: 964.911+/-0.247 χ^2/NDF : 2543082.0/17

Out: 847.166+/-0.218 χ^2/NDF : 3379111.8/20

All: 898.594+/-0.163 χ^2/NDF : 6050058.6/38

asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -987.532+/-873.840 χ^2/NDF : 12.0/15

Left Out: 974.420+/-1357.636 χ^2/NDF : 0.2/2

Right Out: -1192.173+/-870.432 χ^2/NDF : 7.0/17

Left In: -3714.564+/-1492.087 χ^2/NDF : 0.3/1

Left: -1149.335+/-1004.170 χ^2/NDF : 5.9/4

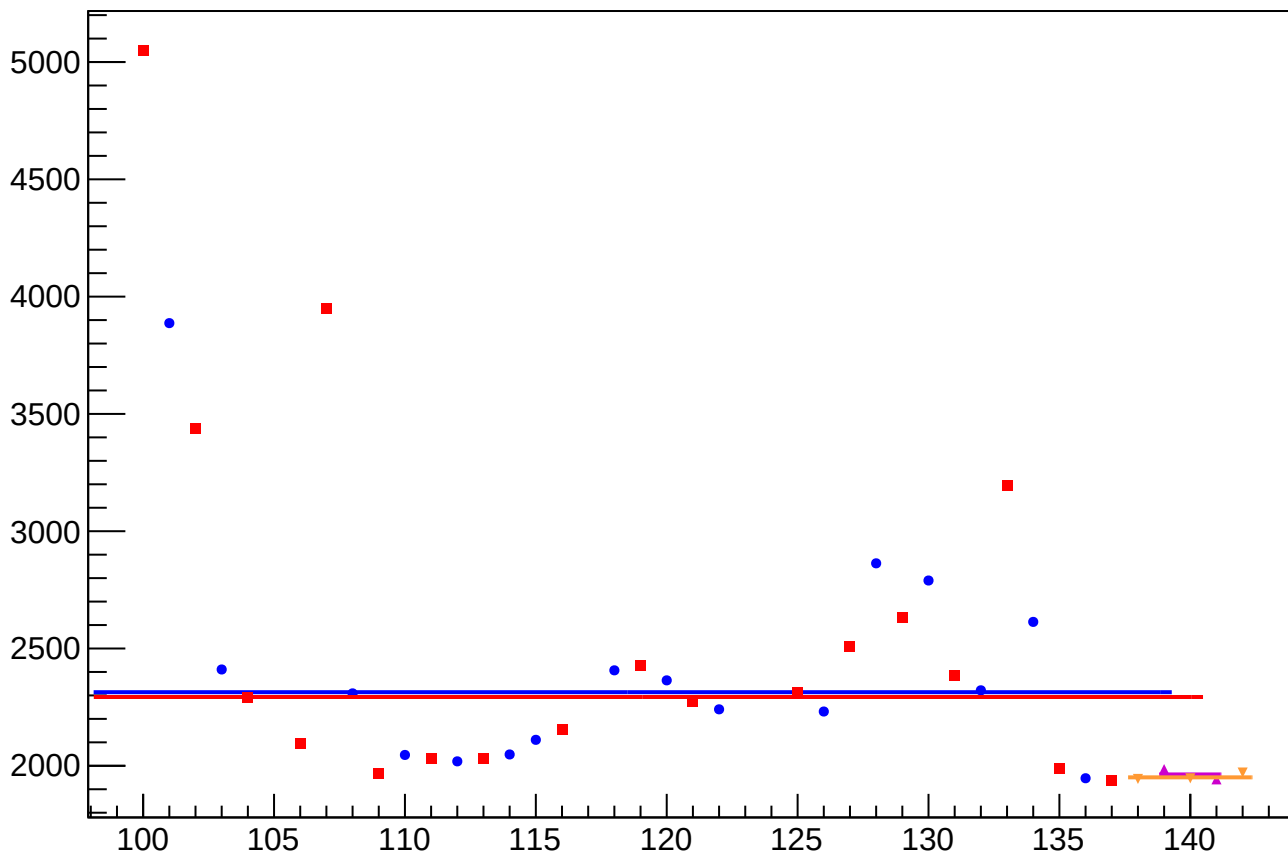
Right: -1090.252+/-616.690 χ^2/NDF : 19.0/33

In: -1683.989+/-754.043 χ^2/NDF : 14.7/17

Out: -561.018+/-732.761 χ^2/NDF : 9.0/20

All: -1106.433+/-525.503 χ^2/NDF : 24.8/38

asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2313.740+/-0.618 χ^2/NDF : 402756.6/15

Left Out: 1950.736+/-0.960 χ^2/NDF : 121.7/2

Right Out: 2293.273+/-0.615 χ^2/NDF : 453202.3/17

Left In: 1963.119+/-1.055 χ^2/NDF : 428.5/1

Left: 1956.344+/-0.710 χ^2/NDF : 625.6/4

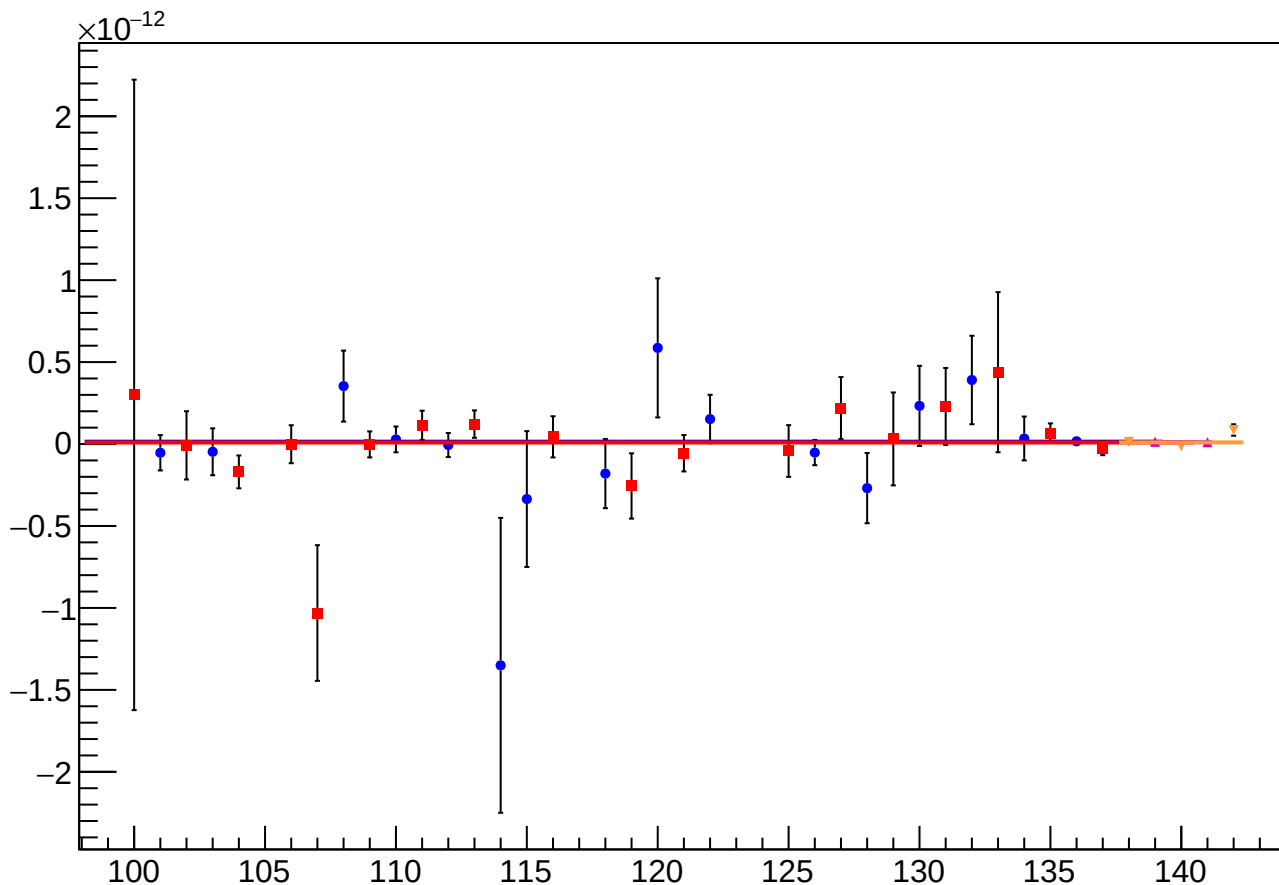
Right: 2303.467+/-0.436 χ^2/NDF : 856509.6/33

In: 2224.196+/-0.533 χ^2/NDF : 485418.3/17

Out: 2193.489+/-0.518 χ^2/NDF : 543551.2/20

All: 2208.403+/-0.372 χ^2/NDF : 1030675.3/38

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 6.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 19.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 6.4/4

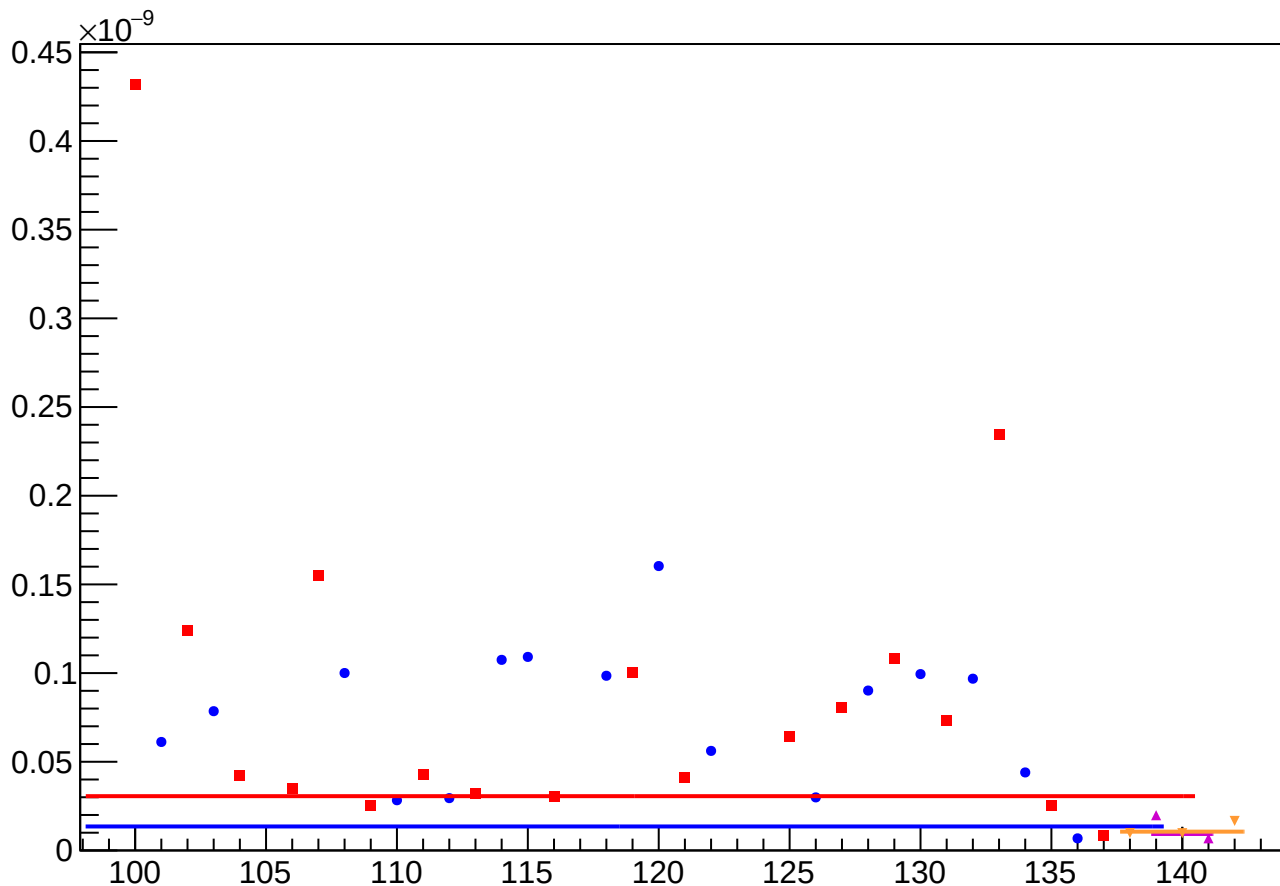
Right: 0.000+/-0.000 χ^2/NDF : 34.5/33

In: 0.000+/-0.000 χ^2/NDF : 15.0/17

Out: 0.000+/-0.000 χ^2/NDF : 25.9/20

All: 0.000+/-0.000 χ^2/NDF : 41.0/38

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3416094.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 68592.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2349183.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 304805.6/1

Left: 0.000+/-0.000 χ^2/NDF : 384460.4/4

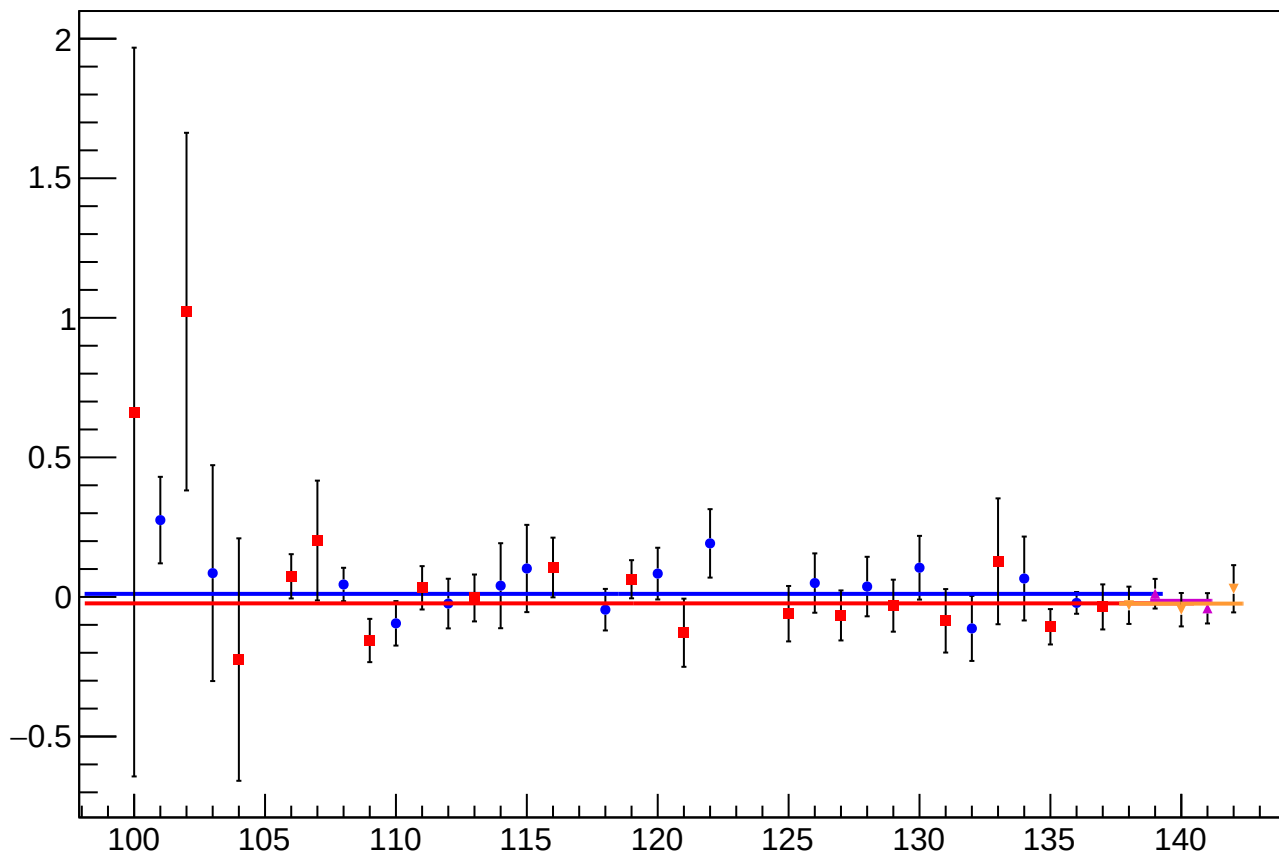
Right: 0.000+/-0.000 χ^2/NDF : 6517274.2/33

In: 0.000+/-0.000 χ^2/NDF : 3819635.6/17

Out: 0.000+/-0.000 χ^2/NDF : 3519581.8/20

All: 0.000+/-0.000 χ^2/NDF : 7448946.7/38

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.022 χ^2 /NDF: 11.7/15

Left Out: -0.024 $\pm$ 0.039 χ^2 /NDF:0.5/2

Right Out: -0.023 $\pm$ 0.023 χ^2 /NDF: 16.0/17

Left In: -0.014 $\pm$ 0.038 χ^2 /NDF:0.5/1

Left: -0.019 $\pm$ 0.027 χ^2 /NDF: 1.0/4

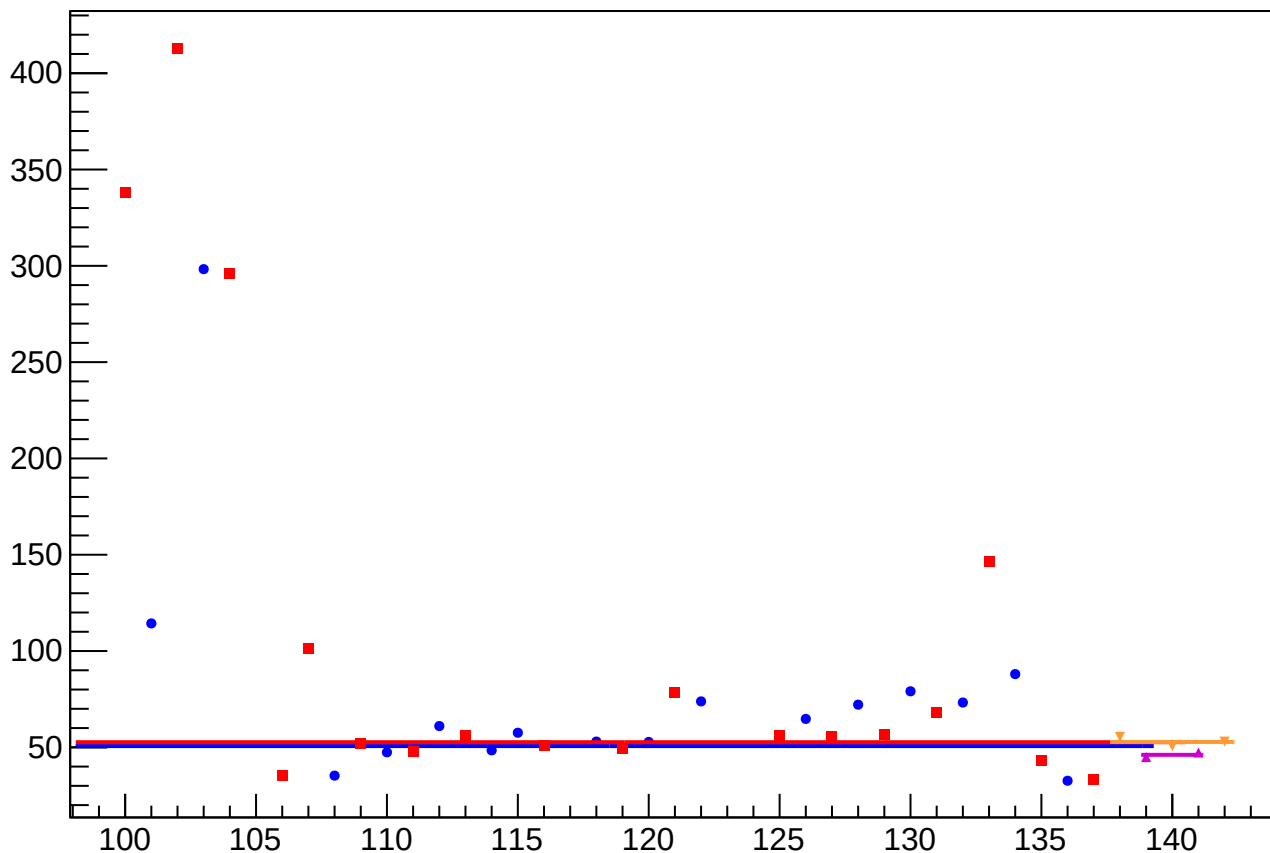
Right: -0.005 $\pm$ 0.016 χ^2 /NDF: 28.8/33

In: 0.005 $\pm$ 0.019 χ^2 /NDF:12.5/17

Out: -0.023 $\pm$ 0.020 χ^2 /NDF:16.5/20

All: -0.009 $\pm$ 0.014 χ^2 /NDF: 30.1/38

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 50.645 $\pm$ 0.015 χ^2 /NDF: 2266445.6/15

Left Out: 52.788 $\pm$ 0.028 χ^2 /NDF:5841.3/2

Right Out: 52.666 $\pm$ 0.016 χ^2 /NDF: 2211938.1/17

Left In: 46.099 $\pm$ 0.027 χ^2 /NDF:1954.0/1

Left: 49.317 $\pm$ 0.019 χ^2 /NDF: 37644.0/4

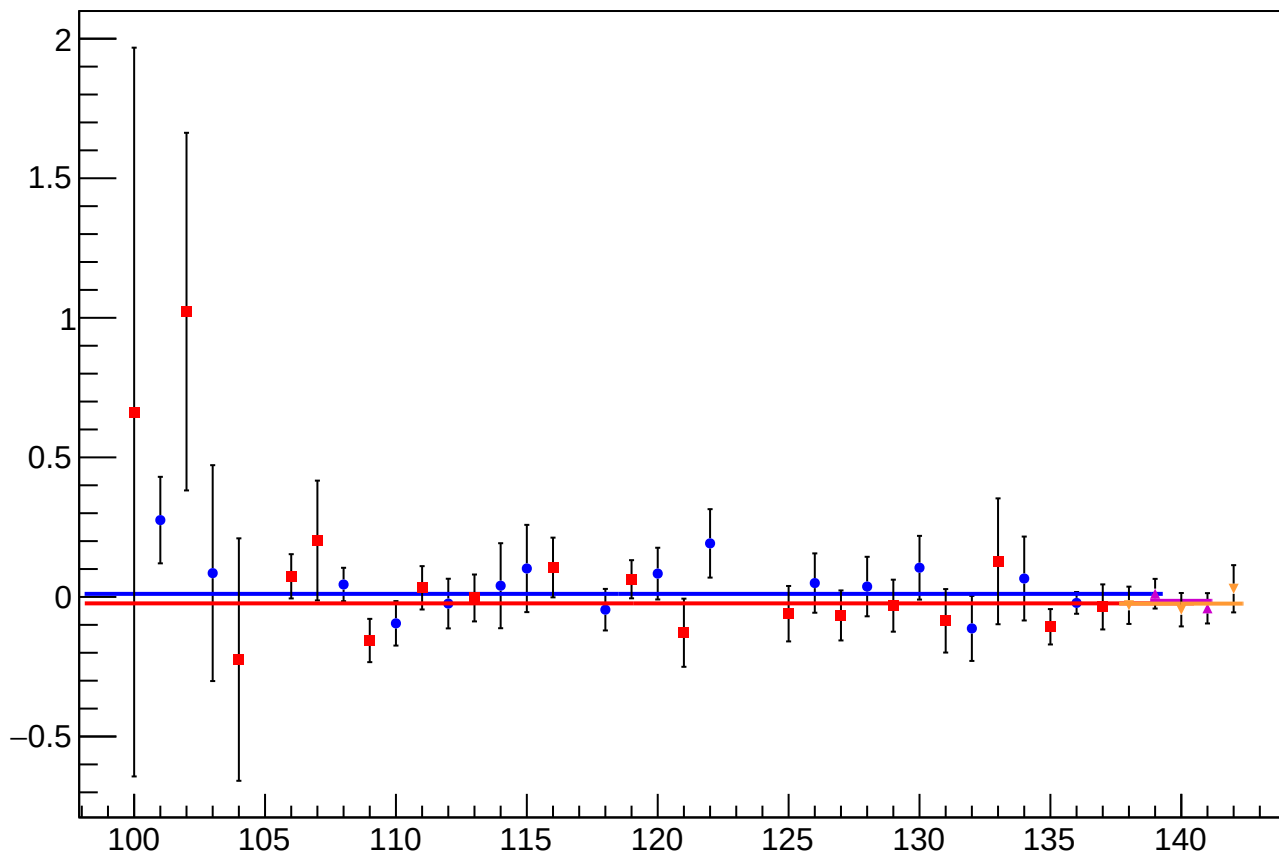
Right: 51.600 $\pm$ 0.011 χ^2 /NDF: 4486449.2/33

In: 49.513 $\pm$ 0.013 χ^2 /NDF:2289920.5/17

Out: 52.697 $\pm$ 0.014 χ^2 /NDF:2217793.7/20

All: 51.024 $\pm$ 0.010 χ^2 /NDF: 4534505.1/38

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.022 χ^2 /NDF: 11.7/15

Left Out: -0.024 $\pm$ 0.039 χ^2 /NDF:0.5/2

Right Out: -0.023 $\pm$ 0.023 χ^2 /NDF: 16.0/17

Left In: -0.014 $\pm$ 0.038 χ^2 /NDF:0.5/1

Left: -0.019 $\pm$ 0.027 χ^2 /NDF: 1.0/4

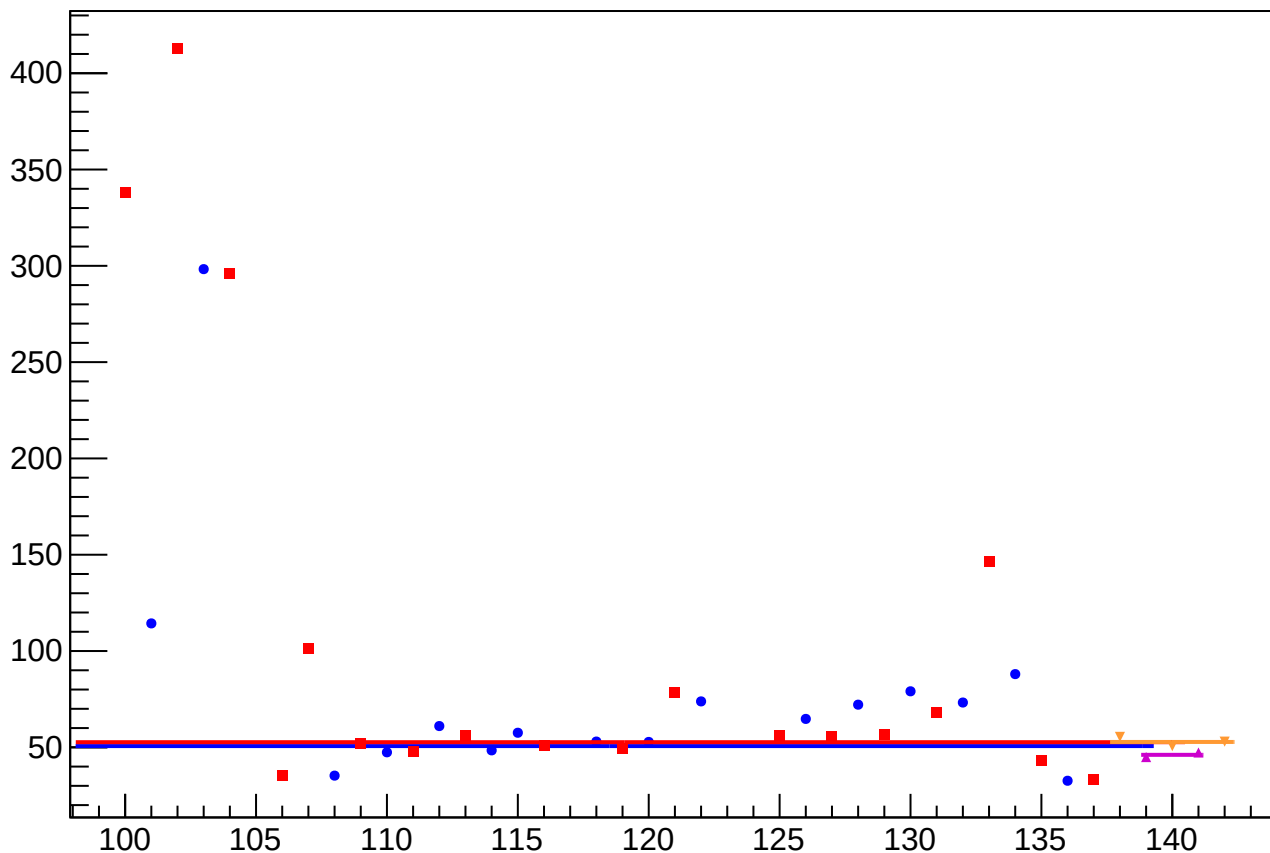
Right: -0.005 $\pm$ 0.016 χ^2 /NDF: 28.8/33

In: 0.005 $\pm$ 0.019 χ^2 /NDF:12.5/17

Out: -0.023 $\pm$ 0.020 χ^2 /NDF:16.5/20

All: -0.009 $\pm$ 0.014 χ^2 /NDF: 30.1/38

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 50.645 $\pm$ 0.015 χ^2 /NDF: 2266445.6/15

Left Out: 52.788 $\pm$ 0.028 χ^2 /NDF: 5841.3/2

Right Out: 52.666 $\pm$ 0.016 χ^2 /NDF: 2211938.1/17

Left In: 46.099 $\pm$ 0.027 χ^2 /NDF: 1954.0/1

Left: 49.317 $\pm$ 0.019 χ^2 /NDF: 37644.0/4

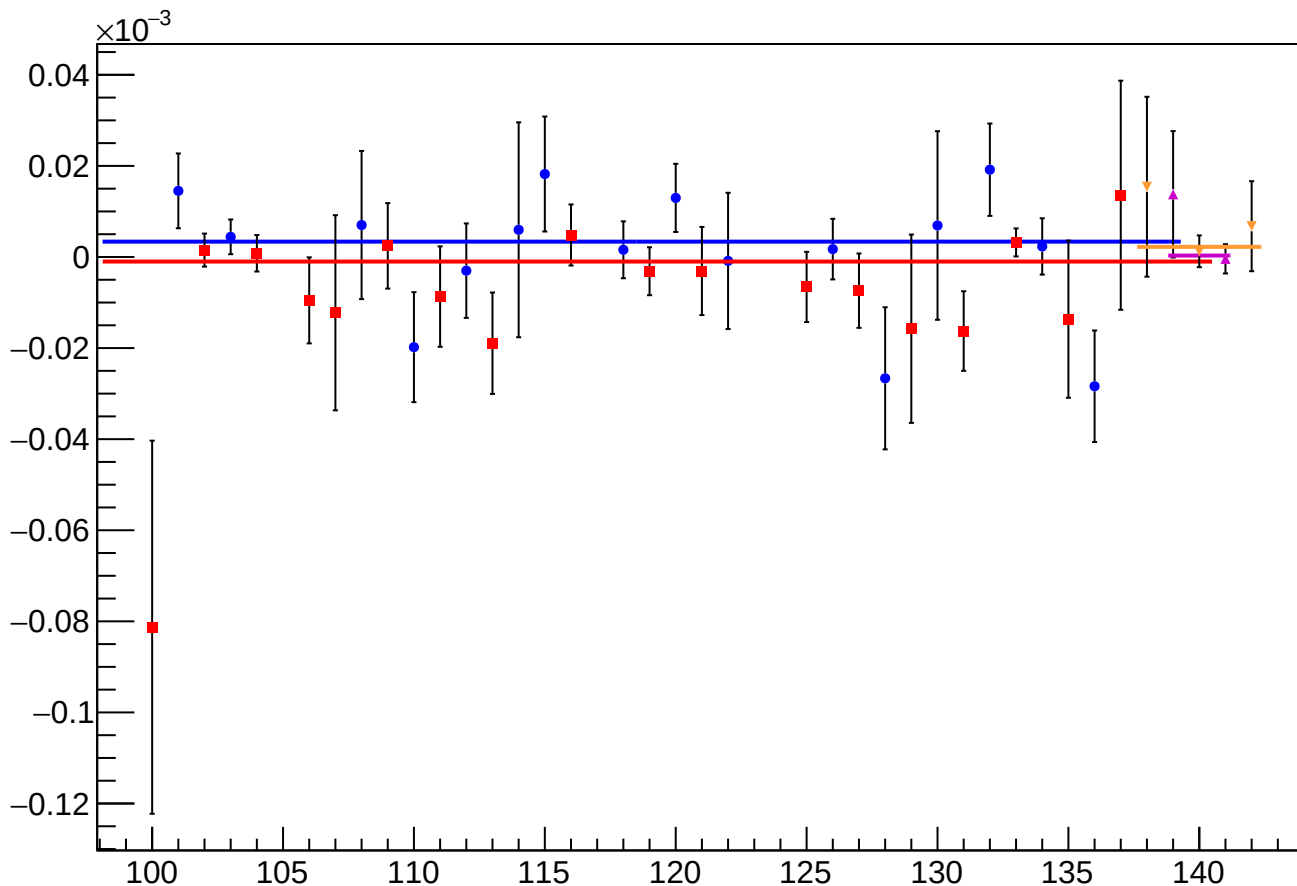
Right: 51.600 $\pm$ 0.011 χ^2 /NDF: 4486449.2/33

In: 49.513 $\pm$ 0.013 χ^2 /NDF: 2289920.5/17

Out: 52.697 $\pm$ 0.014 χ^2 /NDF: 2217793.7/20

All: 51.024 $\pm$ 0.010 χ^2 /NDF: 4534505.1/38

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.7/2

Right Out: -0.000+/-0.000 χ^2/NDF : 17.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 1.0/1

Left: 0.000+/-0.000 χ^2/NDF : 1.9/4

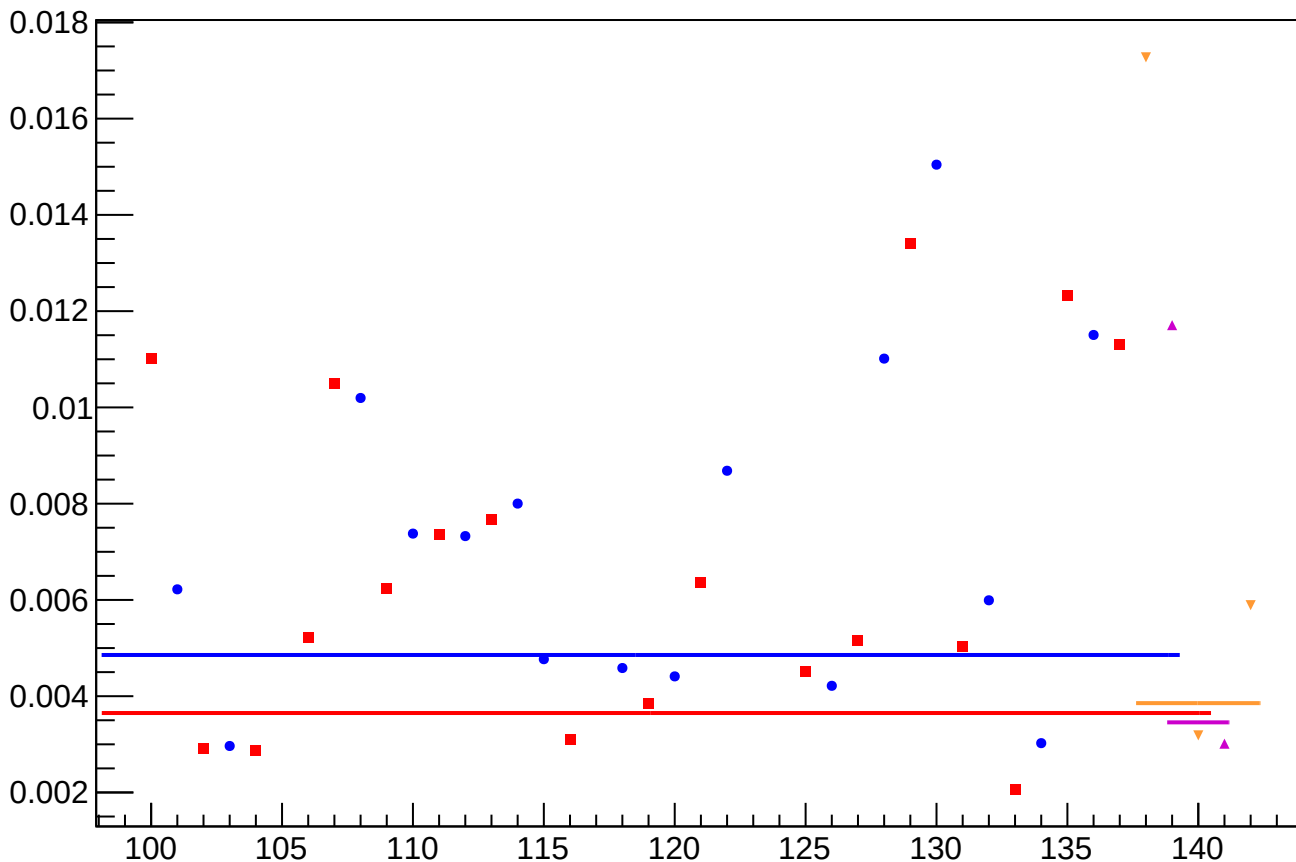
Right: 0.000+/-0.000 χ^2/NDF : 42.3/33

In: 0.000+/-0.000 χ^2/NDF : 23.9/17

Out: -0.000+/-0.000 χ^2/NDF : 18.8/20

All: 0.000+/-0.000 χ^2/NDF : 44.2/38

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000

χ^2/NDF : 2745089.6/15

Left Out: 0.004+/-0.000

χ^2/NDF : 1081737.2/2

Right Out: 0.004+/-0.000

χ^2/NDF : 3108848.8/17

Left In: 0.003+/-0.000

χ^2/NDF : 745481.1/1

Left: 0.004+/-0.000

χ^2/NDF : 1842938.5/4

Right: 0.004+/-0.000

χ^2/NDF : 6282872.0/33

In: 0.004+/-0.000

χ^2/NDF : 3768021.9/17

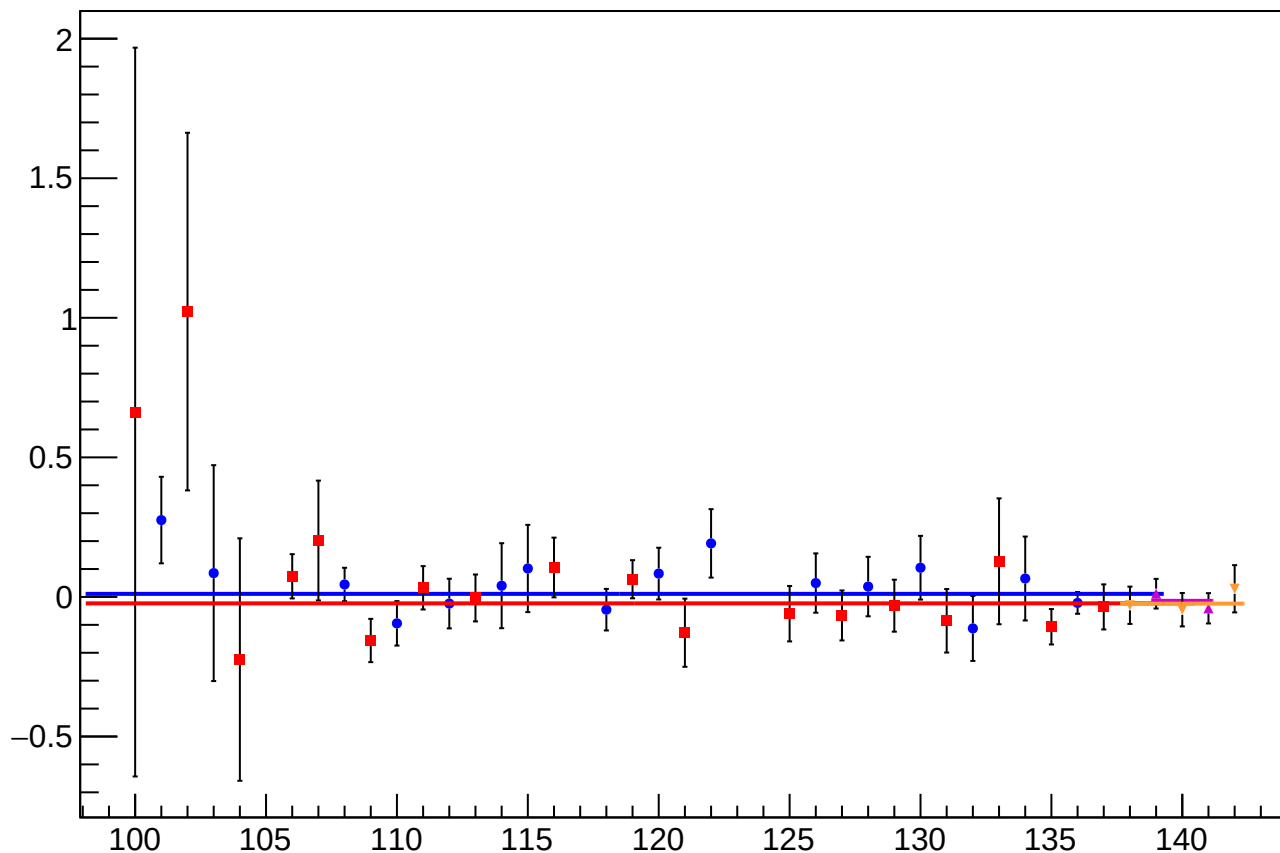
Out: 0.004+/-0.000

χ^2/NDF : 4197100.9/20

All: 0.004+/-0.000

χ^2/NDF : 8183569.2/38

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.022 χ^2 /NDF: 11.7/15

Left Out: -0.024 $\pm$ 0.039 χ^2 /NDF:0.5/2

Right Out: -0.023 $\pm$ 0.023 χ^2 /NDF: 15.9/17

Left In: -0.014 $\pm$ 0.038 χ^2 /NDF:0.5/1

Left: -0.019 $\pm$ 0.027 χ^2 /NDF: 1.0/4

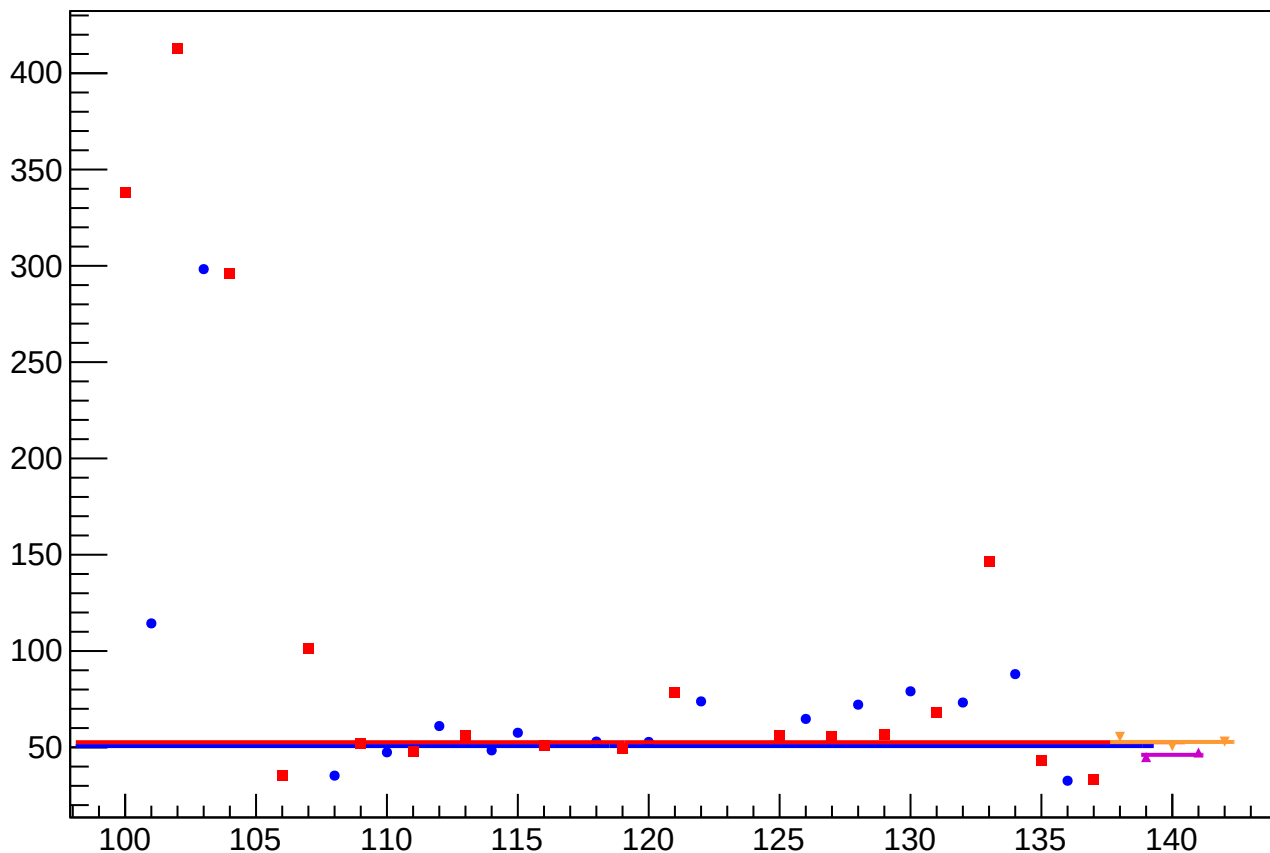
Right: -0.005 $\pm$ 0.016 χ^2 /NDF: 28.8/33

In: 0.005 $\pm$ 0.019 χ^2 /NDF:12.5/17

Out: -0.023 $\pm$ 0.020 χ^2 /NDF:16.5/20

All: -0.009 $\pm$ 0.014 χ^2 /NDF: 30.1/38

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 50.646 $\pm$ 0.015 χ^2 /NDF: 2266348.3/15

Left Out: 52.790 $\pm$ 0.028 χ^2 /NDF: 5843.4/2

Right Out: 52.667 $\pm$ 0.016 χ^2 /NDF: 2211822.2/17

Left In: 46.100 $\pm$ 0.027 χ^2 /NDF: 1952.8/1

Left: 49.319 $\pm$ 0.019 χ^2 /NDF: 37641.2/4

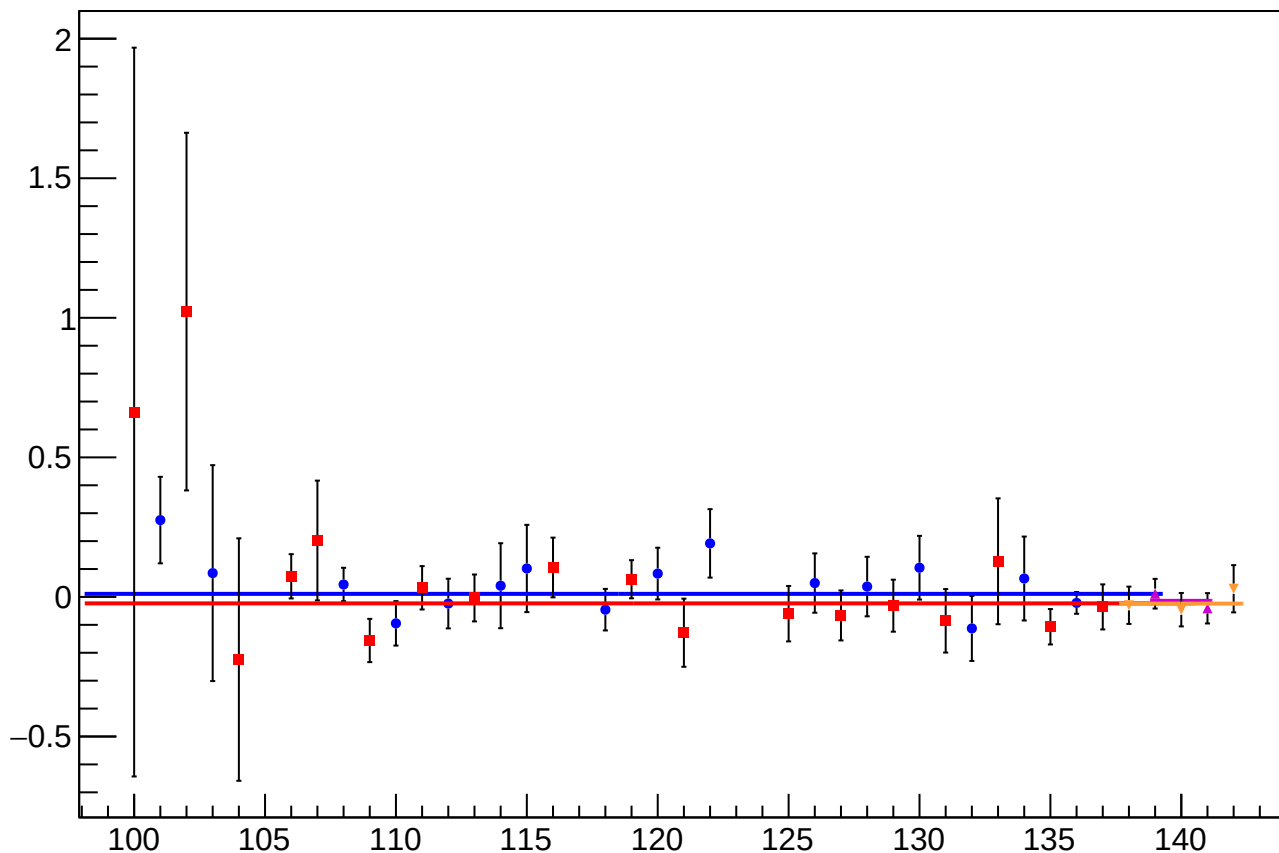
Right: 51.601 $\pm$ 0.011 χ^2 /NDF: 4486238.7/33

In: 49.514 $\pm$ 0.013 χ^2 /NDF: 2289808.1/17

Out: 52.698 $\pm$ 0.014 χ^2 /NDF: 2217680.1/20

All: 51.025 $\pm$ 0.010 χ^2 /NDF: 4534281.1/38

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 ± 0.022 χ^2/NDF : 11.7/15

Left Out: -0.024 ± 0.039 χ^2/NDF : 0.5/2

Right Out: -0.023 ± 0.023 χ^2/NDF : 15.9/17

Left In: -0.014 ± 0.038 χ^2/NDF : 0.5/1

Left: -0.019 ± 0.027 χ^2/NDF : 1.0/4

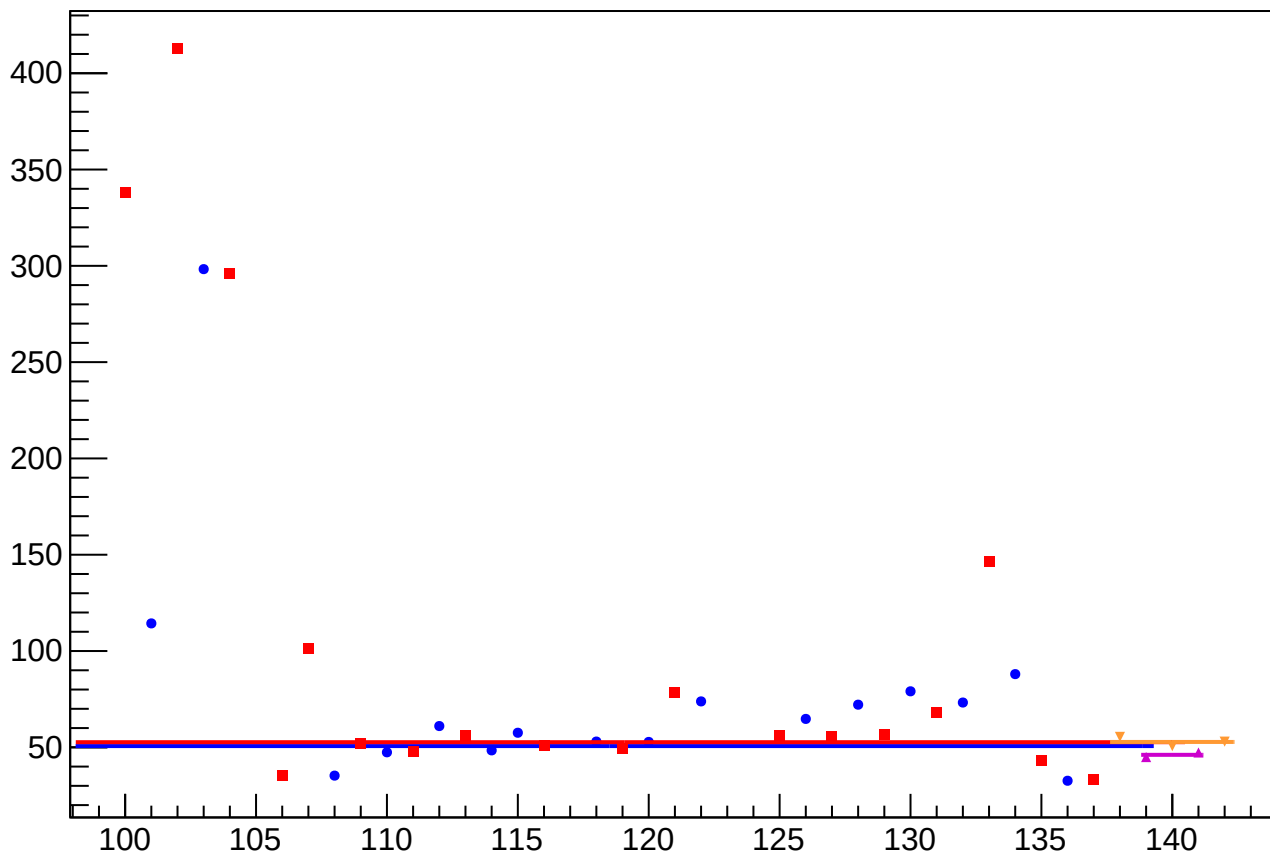
Right: -0.005 ± 0.016 χ^2/NDF : 28.8/33

In: 0.005 ± 0.019 χ^2/NDF : 12.5/17

Out: -0.023 ± 0.020 χ^2/NDF : 16.5/20

All: -0.009 ± 0.014 χ^2/NDF : 30.1/38

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 50.646 $\pm$ 0.015 χ^2 /NDF: 2266348.3/15

Left Out: 52.790 $\pm$ 0.028 χ^2 /NDF: 5843.4/2

Right Out: 52.667 $\pm$ 0.016 χ^2 /NDF: 2211822.2/17

Left In: 46.100 $\pm$ 0.027 χ^2 /NDF: 1952.8/1

Left: 49.319 $\pm$ 0.019 χ^2 /NDF: 37641.2/4

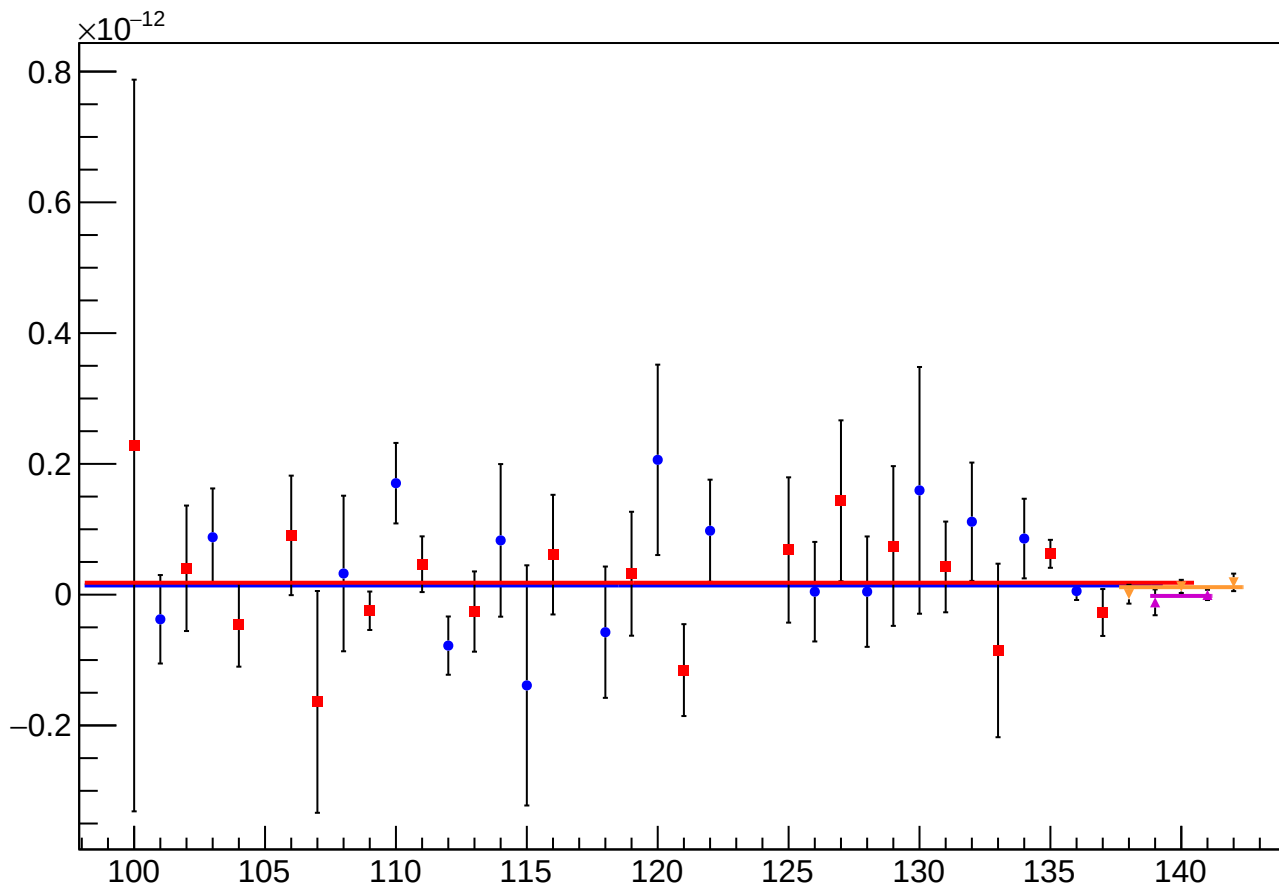
Right: 51.601 $\pm$ 0.011 χ^2 /NDF: 4486238.7/33

In: 49.514 $\pm$ 0.013 χ^2 /NDF: 2289808.1/17

Out: 52.698 $\pm$ 0.014 χ^2 /NDF: 2217680.1/20

All: 51.025 $\pm$ 0.010 χ^2 /NDF: 4534281.1/38

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.0/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.3/1

Left: 0.000+/-0.000 χ^2/NDF : 2.9/4

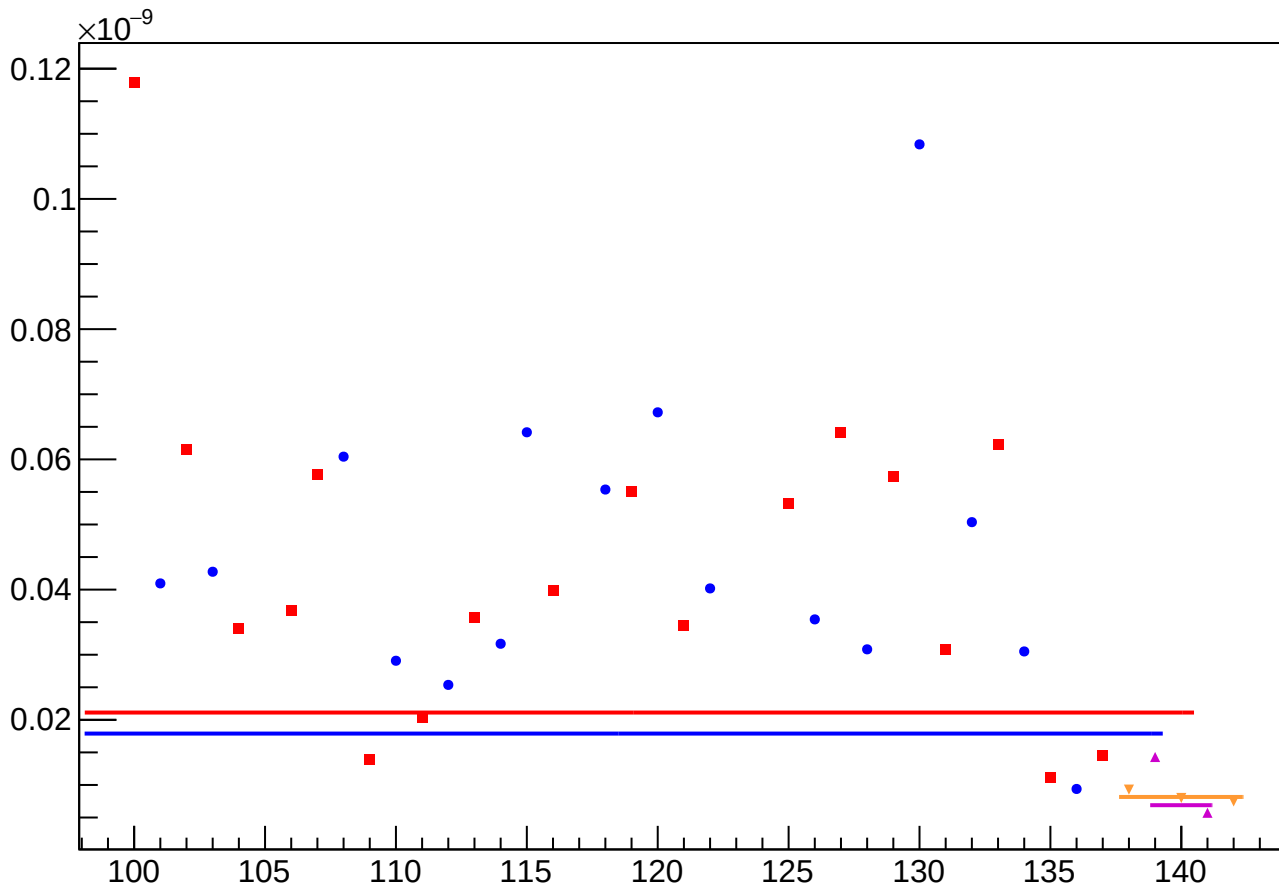
Right: 0.000+/-0.000 χ^2/NDF : 38.4/33

In: 0.000+/-0.000 χ^2/NDF : 22.0/17

Out: 0.000+/-0.000 χ^2/NDF : 19.1/20

All: 0.000+/-0.000 χ^2/NDF : 42.6/38

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3398524.9/15

Left Out: 0.000+/-0.000 χ^2/NDF :18066.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2621588.2/17

Left In: 0.000+/-0.000 χ^2/NDF :324380.4/1

Left: 0.000+/-0.000 χ^2/NDF : 373671.3/4

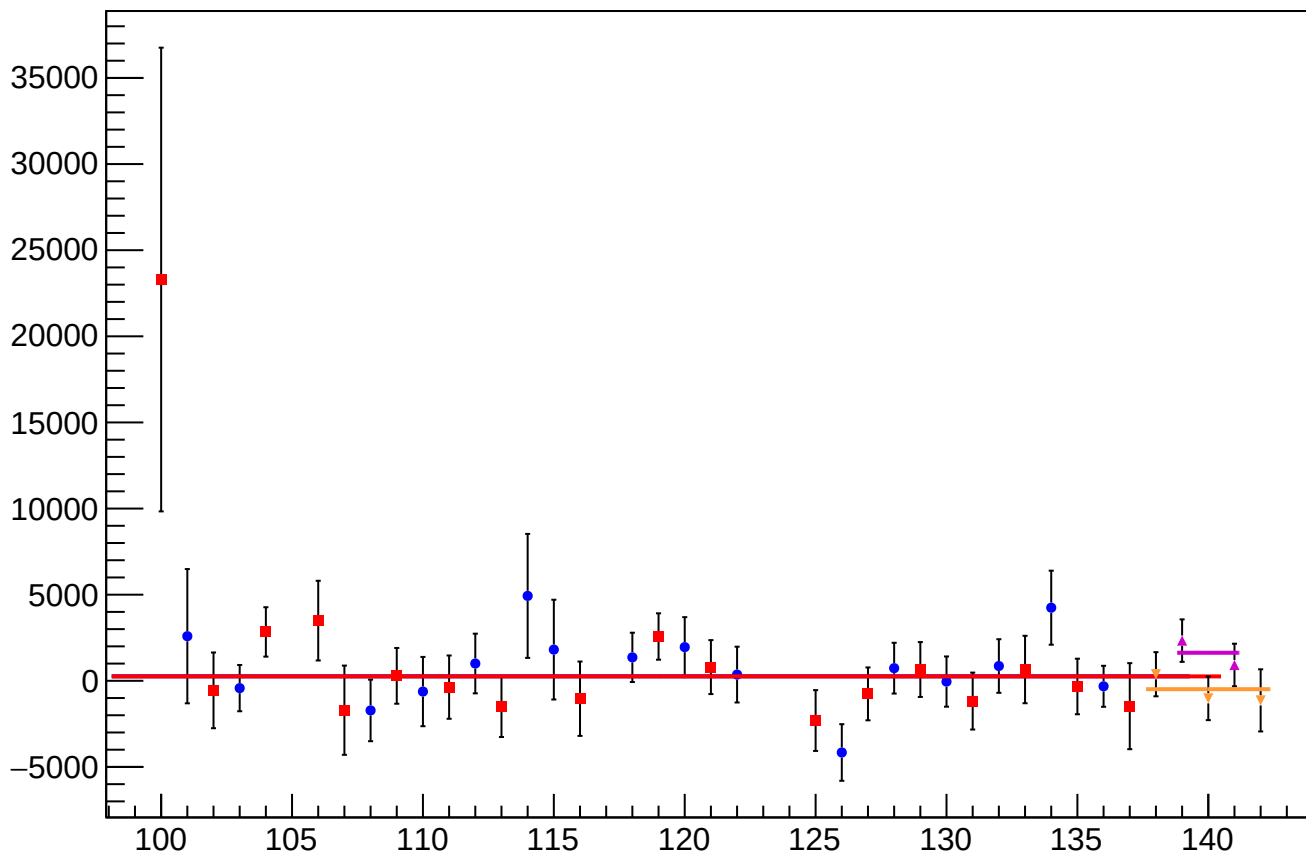
Right: 0.000+/-0.000 χ^2/NDF : 6093228.6/33

In: 0.000+/-0.000 χ^2/NDF :5057189.2/17

Out: 0.000+/-0.000 χ^2/NDF :4267582.8/20

All: 0.000+/-0.000 χ^2/NDF : 9359448.1/38

reg_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 260.797 $\pm$ 424.657 χ^2 /NDF: 16.9/15

Left Out: -487.016 $\pm$ 805.918 χ^2 /NDF:0.8/2

Right Out: 255.934 $\pm$ 425.784 χ^2 /NDF: 17.4/17

Left In: 1627.616 $\pm$ 873.084 χ^2 /NDF:0.7/1

Left: 485.843 $\pm$ 592.193 χ^2 /NDF: 4.6/4

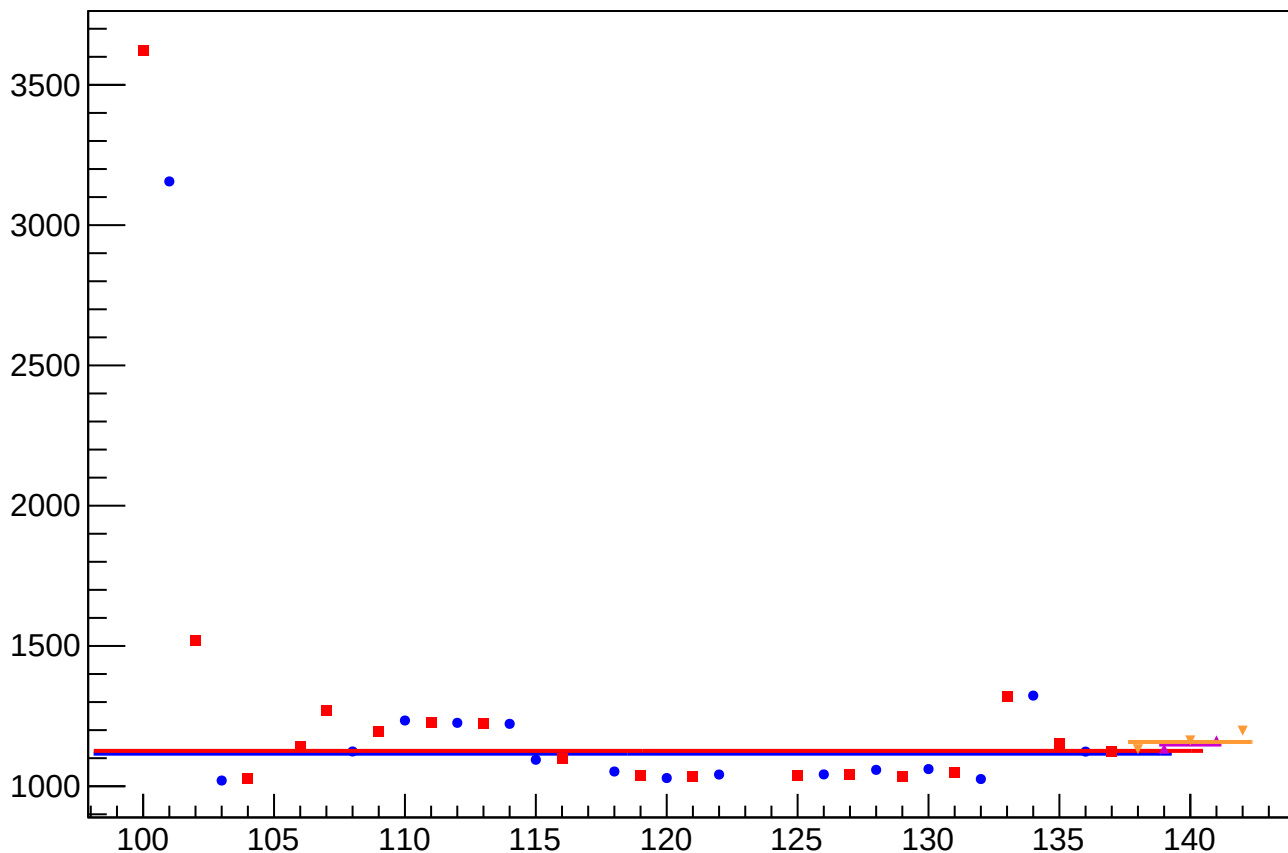
Right: 258.372 $\pm$ 300.676 χ^2 /NDF: 34.3/33

In: 522.287 $\pm$ 381.881 χ^2 /NDF:19.6/17

Out: 93.811 $\pm$ 376.473 χ^2 /NDF:18.8/20

All: 304.993 $\pm$ 268.098 χ^2 /NDF: 39.0/38

reg_asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1116.089+/-0.300 χ^2/NDF : 623390.9/15

Left Out: 1157.811+/-0.570 χ^2/NDF :1856.7/2

Right Out: 1126.016+/-0.301 χ^2/NDF : 222106.0/17

Left In: 1148.589+/-0.617 χ^2/NDF :580.5/1

Left: 1153.568+/-0.419 χ^2/NDF : 2557.7/4

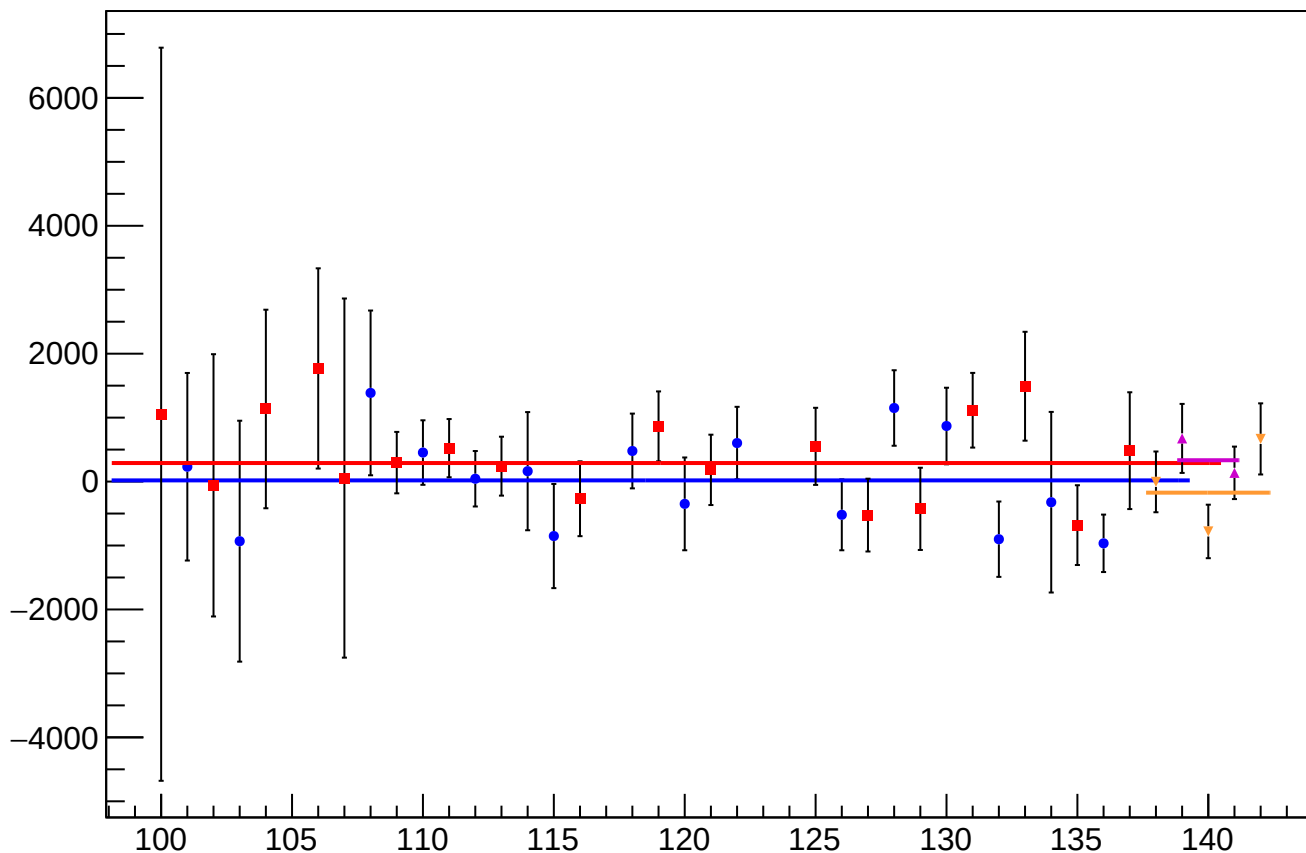
Right: 1121.039+/-0.213 χ^2/NDF : 846041.8/33

In: 1122.307+/-0.270 χ^2/NDF :626212.5/17

Out: 1132.954+/-0.266 χ^2/NDF :226396.3/20

All: 1127.706+/-0.190 χ^2/NDF : 853397.1/38

asym_us_dd_atlr_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 18.468 $\pm$ 161.237 χ^2 /NDF: 19.2/15

Left Out: -173.471 $\pm$ 273.399 χ^2 /NDF:4.5/2

Right Out: 289.946 $\pm$ 156.189 χ^2 /NDF: 13.5/17

Left In: 333.774 $\pm$ 326.579 χ^2 /NDF:0.6/1

Left: 35.542 $\pm$ 209.636 χ^2 /NDF: 6.6/4

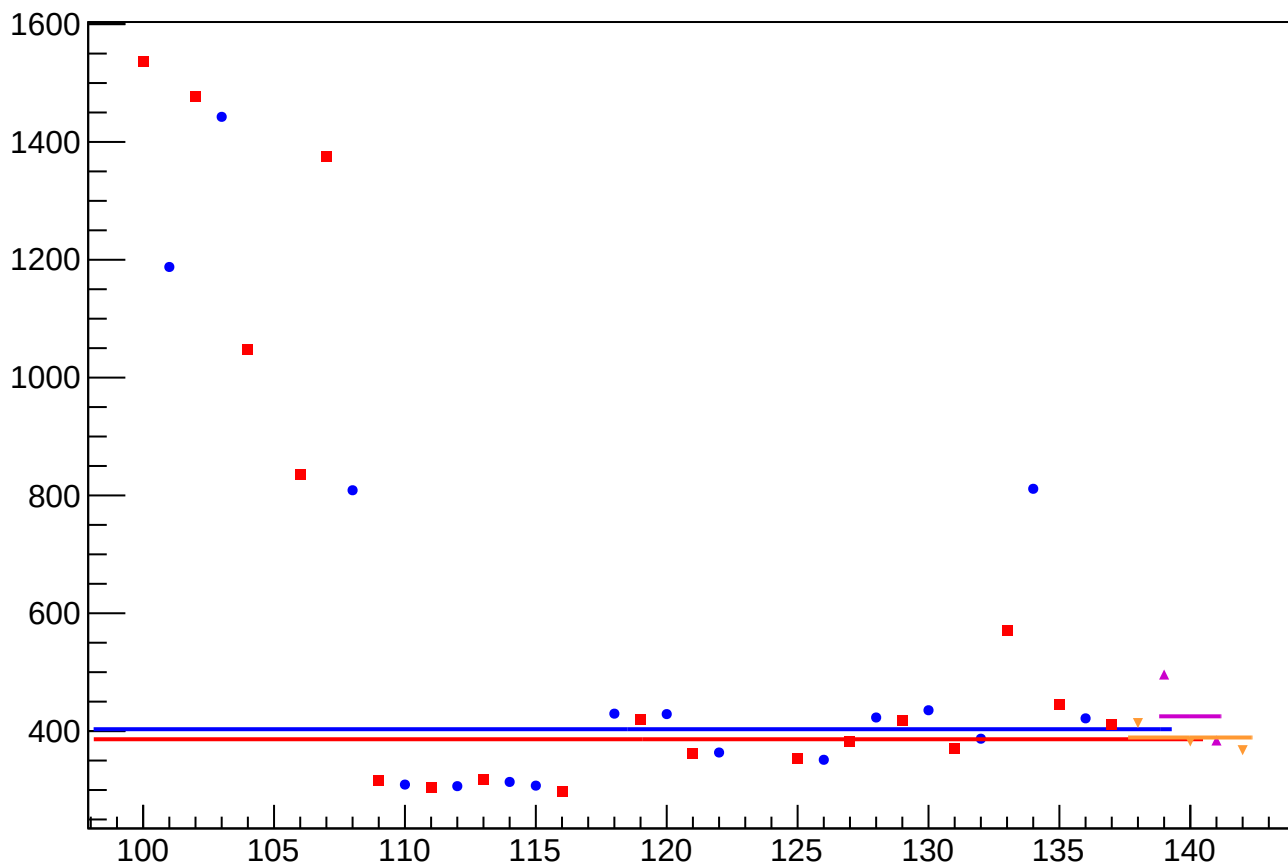
Right: 158.523 $\pm$ 112.184 χ^2 /NDF: 34.1/33

In: 80.262 $\pm$ 144.576 χ^2 /NDF:20.6/17

Out: 175.917 $\pm$ 135.618 χ^2 /NDF:20.2/20

All: 131.145 $\pm$ 98.912 χ^2 /NDF: 41.0/38

asym_us_dd_atlr_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 403.194+/-0.114 χ^2/NDF : 1808432.3/15

Left Out: 389.109+/-0.193 χ^2/NDF : 8834.6/2

Right Out: 386.146+/-0.110 χ^2/NDF : 1759113.8/17

Left In: 425.072+/-0.231 χ^2/NDF : 54549.6/1

Left: 403.928+/-0.148 χ^2/NDF : 77643.6/4

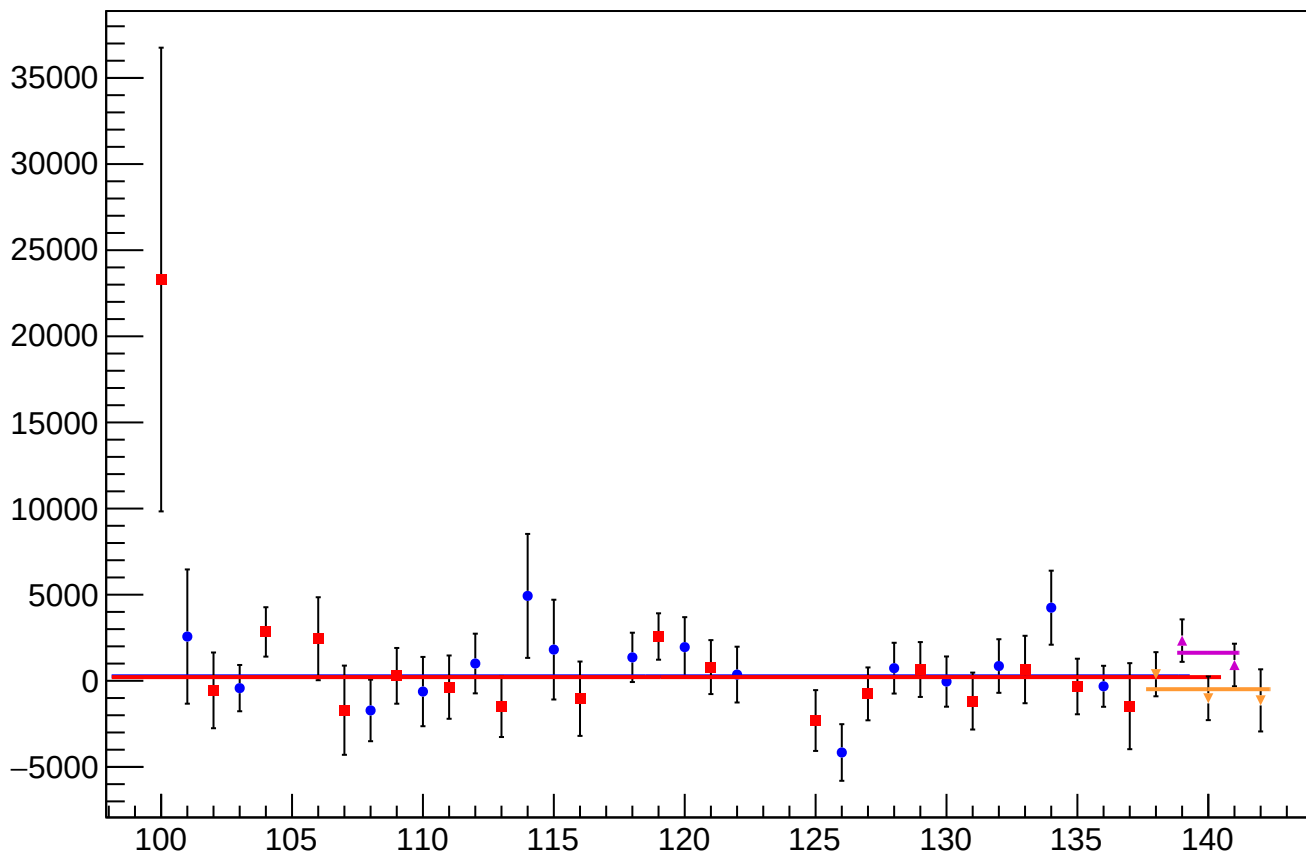
Right: 394.399+/-0.079 χ^2/NDF : 3579081.1/33

In: 407.482+/-0.102 χ^2/NDF : 1870198.5/17

Out: 386.875+/-0.096 χ^2/NDF : 1768125.5/20

All: 396.520+/-0.070 χ^2/NDF : 3659936.9/38

cor_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 260.415+/-424.657 χ^2/NDF : 16.9/15

Left Out: -487.125+/-805.918 χ^2/NDF : 0.8/2

Right Out: 214.501+/-426.342 χ^2/NDF : 16.2/17

Left In: 1627.654+/-873.084 χ^2/NDF : 0.7/1

Left: 485.801+/-592.193 χ^2/NDF : 4.6/4

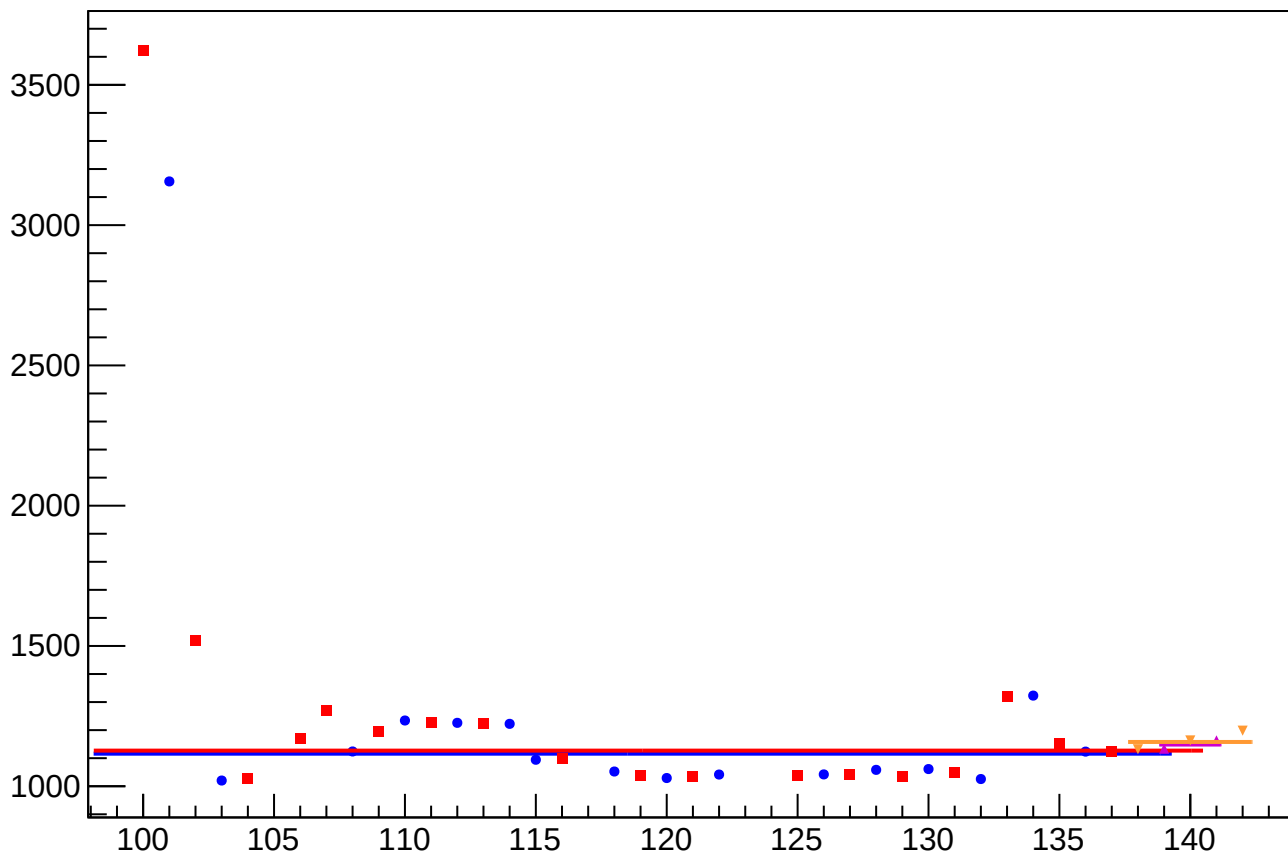
Right: 237.549+/-300.872 χ^2/NDF : 33.2/33

In: 521.986+/-381.881 χ^2/NDF : 19.6/17

Out: 61.082+/-376.858 χ^2/NDF : 17.6/20

All: 288.482+/-268.237 χ^2/NDF : 37.9/38

cor_asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1116.089+/-0.300 χ^2/NDF : 623391.9/15

Left Out: 1157.811+/-0.570 χ^2/NDF : 1856.7/2

Right Out: 1126.960+/-0.301 χ^2/NDF : 222740.2/17

Left In: 1148.589+/-0.617 χ^2/NDF : 580.5/1

Left: 1153.568+/-0.419 χ^2/NDF : 2557.7/4

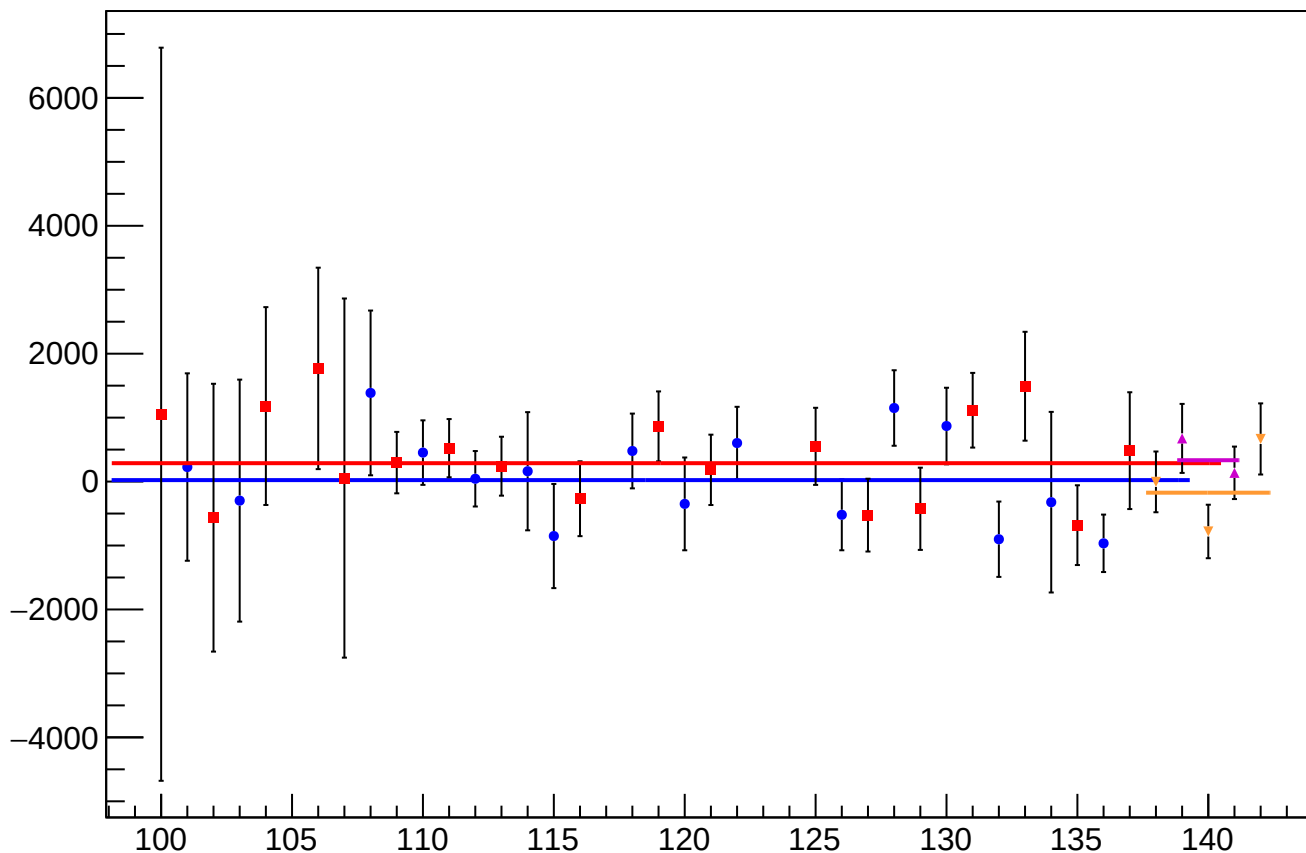
Right: 1121.503+/-0.213 χ^2/NDF : 846784.8/33

In: 1122.307+/-0.270 χ^2/NDF : 626213.6/17

Out: 1133.706+/-0.266 χ^2/NDF : 226886.7/20

All: 1128.082+/-0.190 χ^2/NDF : 854003.1/38

asym_us_dd_atlr_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 22.923+/-161.238 χ^2/NDF : 19.0/15

Left Out: -173.823+/-273.401 χ^2/NDF : 4.5/2

Right Out: 287.614+/-156.212 χ^2/NDF : 13.7/17

Left In: 334.029+/-326.576 χ^2/NDF : 0.6/1

Left: 35.444+/-209.636 χ^2/NDF : 6.6/4

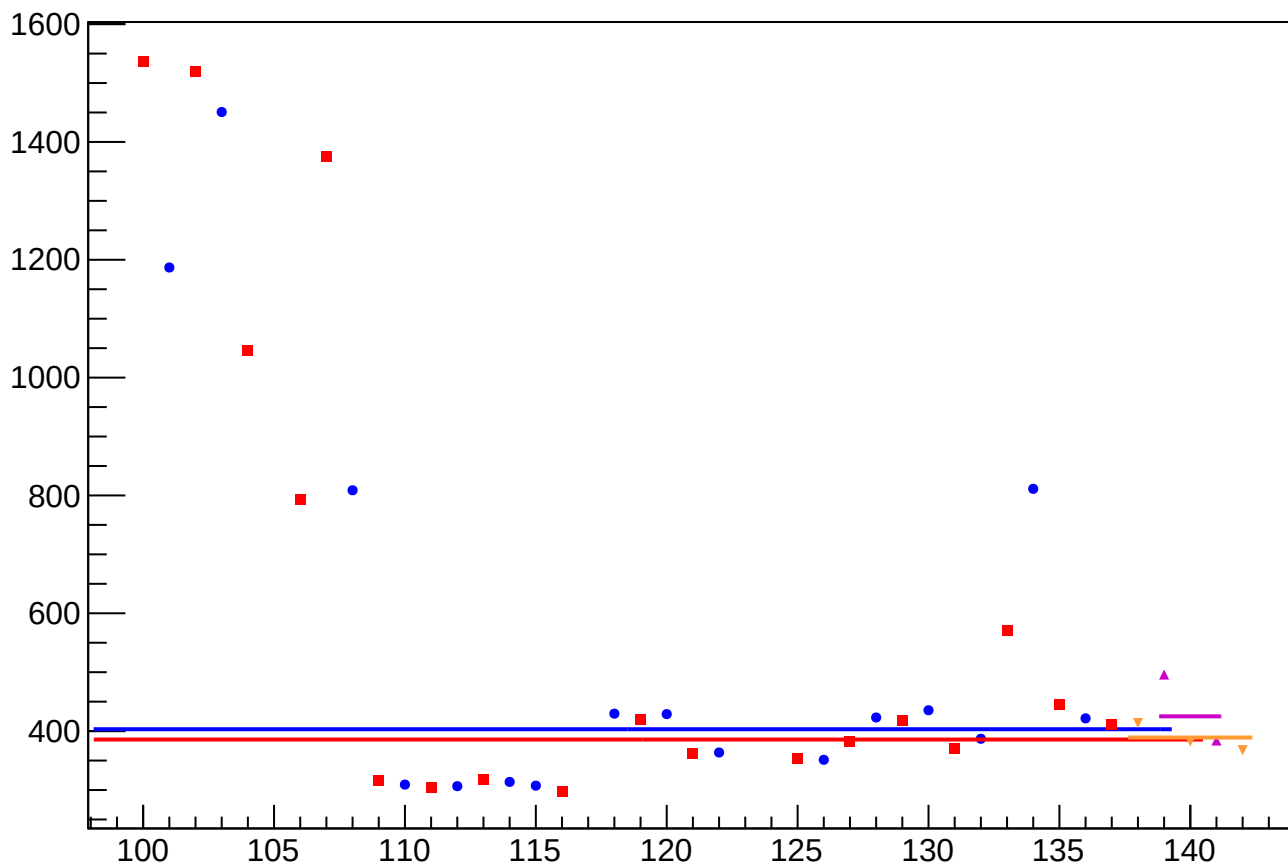
Right: 159.458+/-112.193 χ^2/NDF : 34.0/33

In: 83.896+/-144.577 χ^2/NDF : 20.3/17

Out: 174.049+/-135.634 χ^2/NDF : 20.3/20

All: 131.847+/-98.918 χ^2/NDF : 40.8/38

asym_us_dd_atlr_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 403.182+/-0.114 χ^2/NDF : 1812111.0/15

Left Out: 389.112+/-0.193 χ^2/NDF : 8826.0/2

Right Out: 385.682+/-0.110 χ^2/NDF : 1747152.2/17

Left In: 425.068+/-0.231 χ^2/NDF : 54537.9/1

Left: 403.928+/-0.148 χ^2/NDF : 77617.4/4

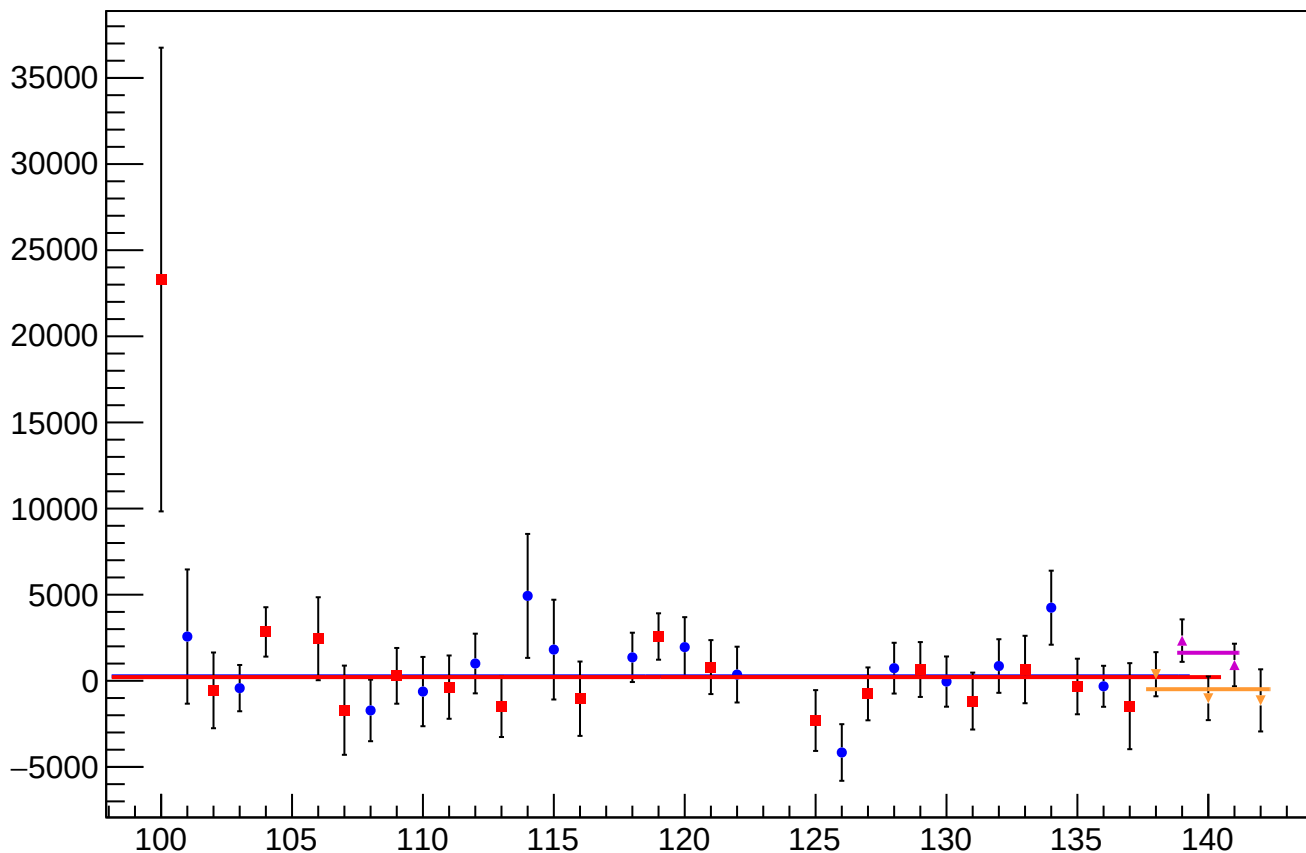
Right: 394.155+/-0.079 χ^2/NDF : 3571416.8/33

In: 407.471+/-0.102 χ^2/NDF : 1873870.6/17

Out: 386.526+/-0.096 χ^2/NDF : 1756215.6/20

All: 396.331+/-0.070 χ^2/NDF : 3652413.3/38

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 260.415+/-424.657 χ^2/NDF : 16.9/15

Left Out: -487.125+/-805.918 χ^2/NDF : 0.8/2

Right Out: 214.501+/-426.342 χ^2/NDF : 16.2/17

Left In: 1627.654+/-873.084 χ^2/NDF : 0.7/1

Left: 485.801+/-592.193 χ^2/NDF : 4.6/4

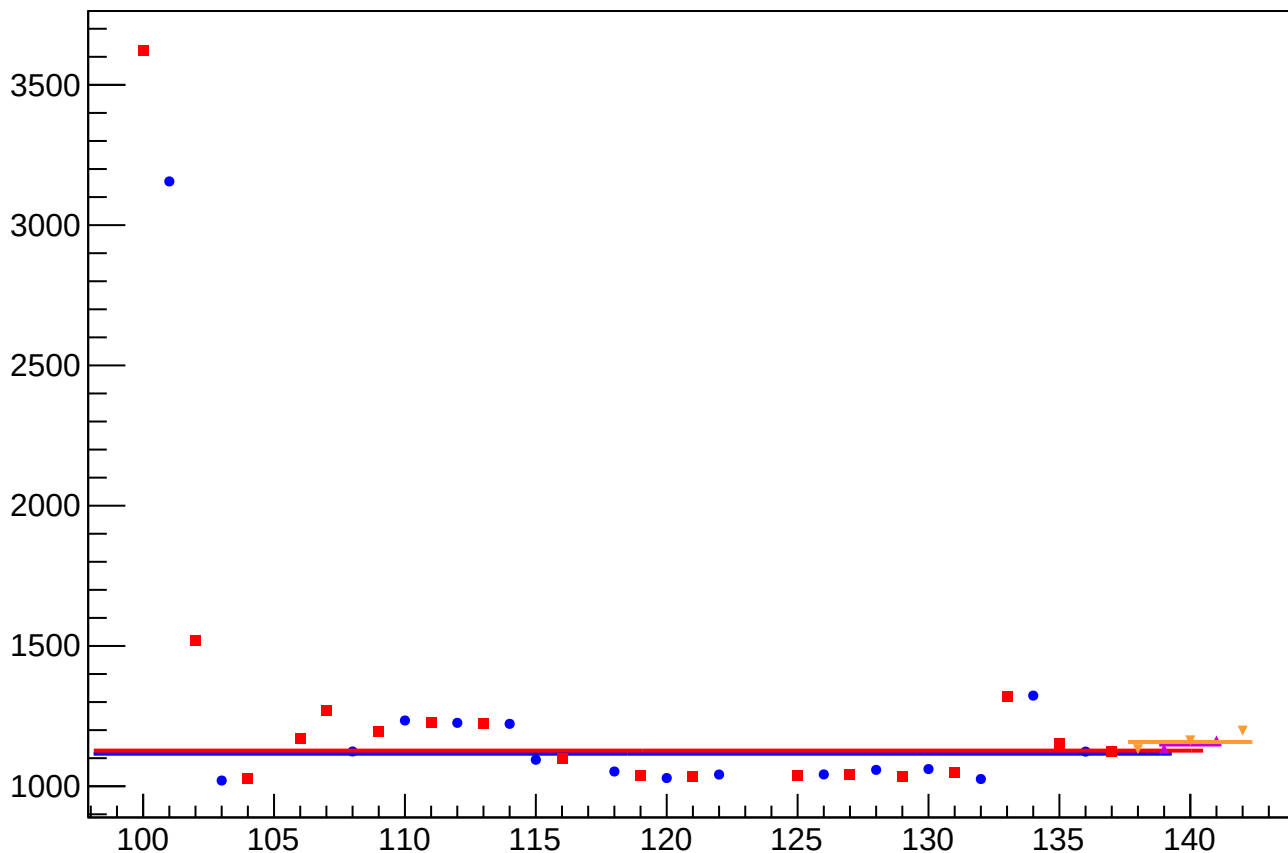
Right: 237.549+/-300.872 χ^2/NDF : 33.2/33

In: 521.986+/-381.881 χ^2/NDF : 19.6/17

Out: 61.082+/-376.858 χ^2/NDF : 17.6/20

All: 288.482+/-268.237 χ^2/NDF : 37.9/38

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1116.089+/-0.300 χ^2/NDF : 623391.9/15

Left Out: 1157.811+/-0.570 χ^2/NDF :1856.7/2

Right Out: 1126.960+/-0.301 χ^2/NDF : 222740.2/17

Left In: 1148.589+/-0.617 χ^2/NDF :580.5/1

Left: 1153.568+/-0.419 χ^2/NDF : 2557.7/4

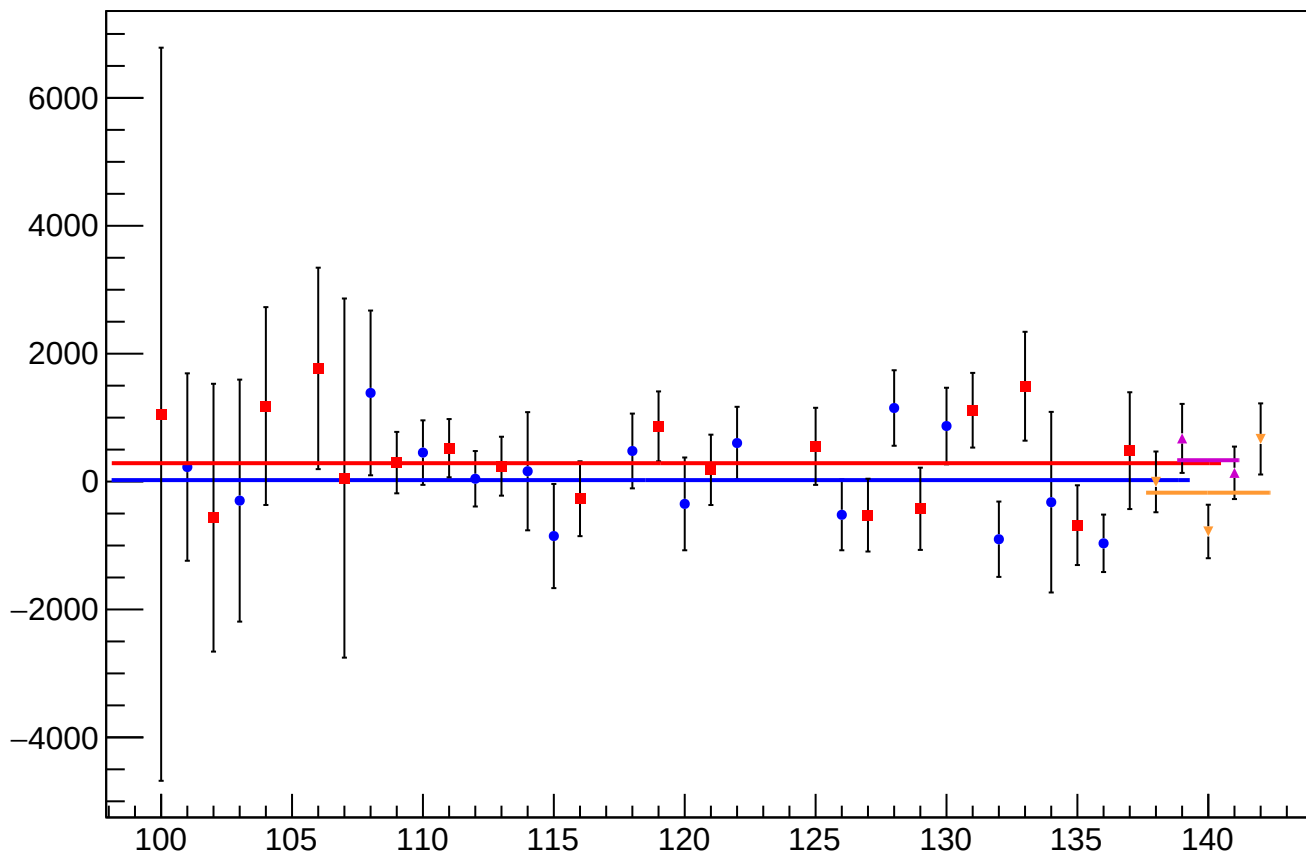
Right: 1121.503+/-0.213 χ^2/NDF : 846784.8/33

In: 1122.307+/-0.270 χ^2/NDF :626213.6/17

Out: 1133.706+/-0.266 χ^2/NDF :226886.7/20

All: 1128.082+/-0.190 χ^2/NDF : 854003.1/38

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 22.923+/-161.238 χ^2/NDF : 19.0/15

Left Out: -173.823+/-273.401 χ^2/NDF : 4.5/2

Right Out: 287.614+/-156.212 χ^2/NDF : 13.7/17

Left In: 334.029+/-326.576 χ^2/NDF : 0.6/1

Left: 35.444+/-209.636 χ^2/NDF : 6.6/4

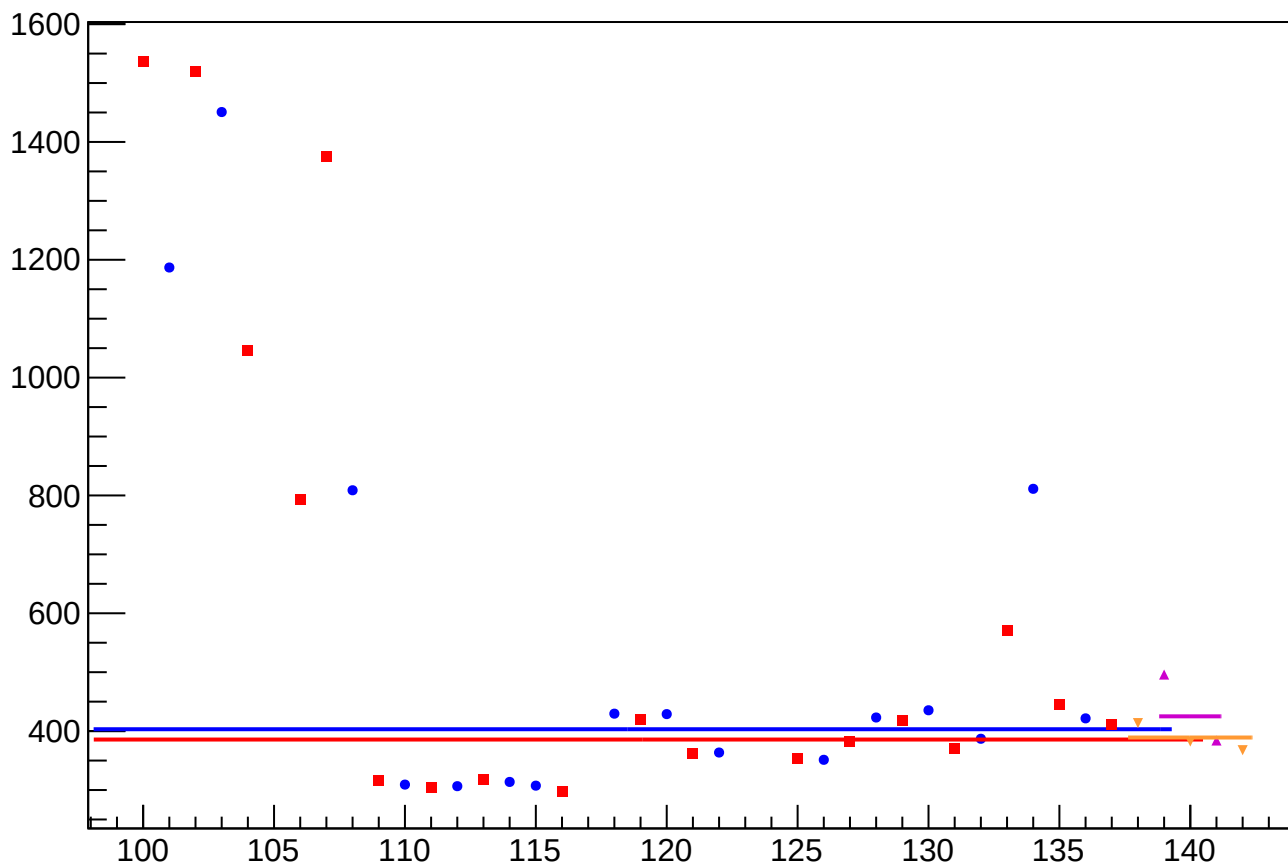
Right: 159.458+/-112.193 χ^2/NDF : 34.0/33

In: 83.896+/-144.577 χ^2/NDF : 20.3/17

Out: 174.049+/-135.634 χ^2/NDF : 20.3/20

All: 131.847+/-98.918 χ^2/NDF : 40.8/38

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 403.182+/-0.114 χ^2/NDF : 1812111.0/15

Left Out: 389.112+/-0.193 χ^2/NDF : 8826.0/2

Right Out: 385.682+/-0.110 χ^2/NDF : 1747152.2/17

Left In: 425.068+/-0.231 χ^2/NDF : 54537.9/1

Left: 403.928+/-0.148 χ^2/NDF : 77617.4/4

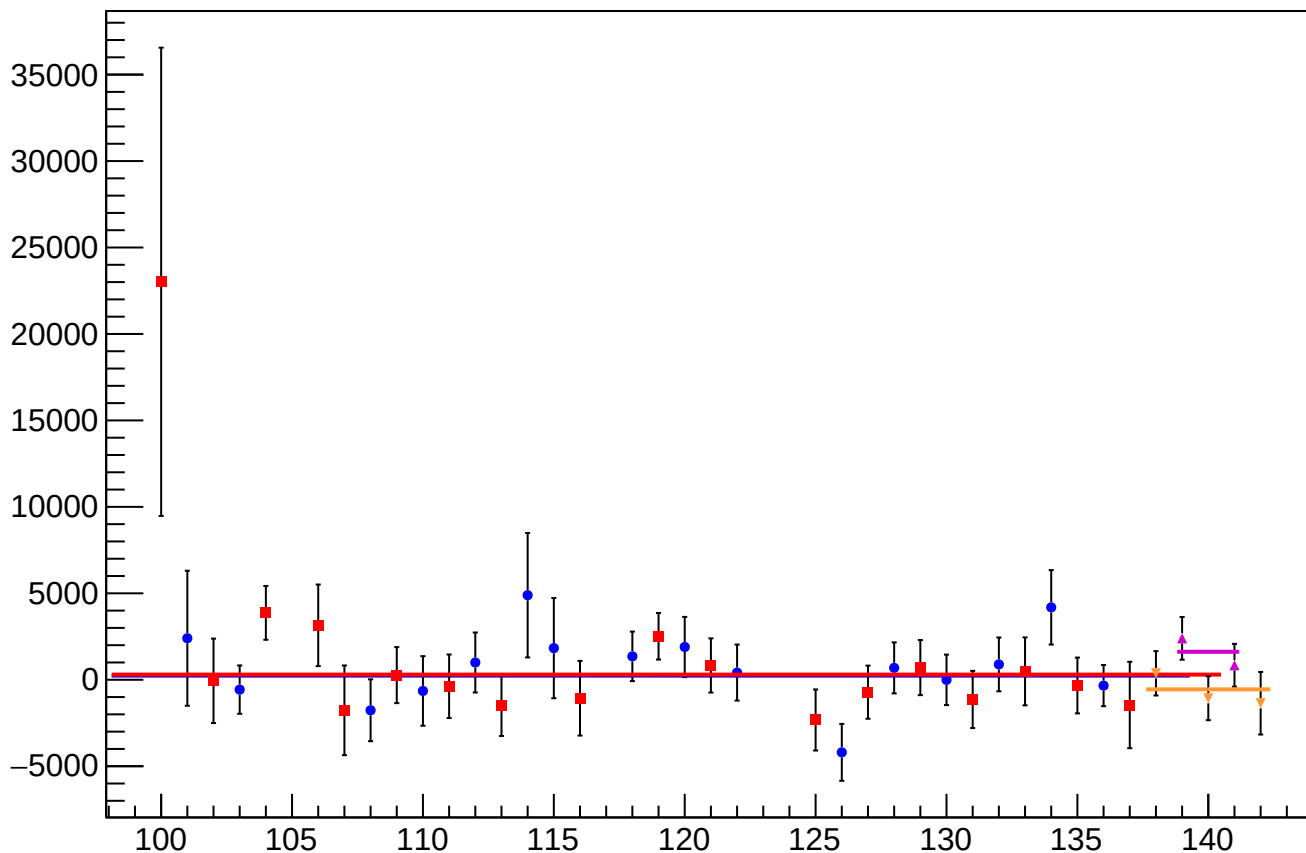
Right: 394.155+/-0.079 χ^2/NDF : 3571416.8/33

In: 407.471+/-0.102 χ^2/NDF : 1873870.6/17

Out: 386.526+/-0.096 χ^2/NDF : 1756215.6/20

All: 396.331+/-0.070 χ^2/NDF : 3652413.3/38

dit_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 240.827+/-426.592 χ^2/NDF : 17.0/15

Left Out: -554.322+/-807.192 χ^2/NDF : 0.9/2

Right Out: 298.921+/-430.767 χ^2/NDF : 18.7/17

Left In: 1619.417+/-873.939 χ^2/NDF : 0.8/1

Left: 446.378+/-592.965 χ^2/NDF : 5.0/4

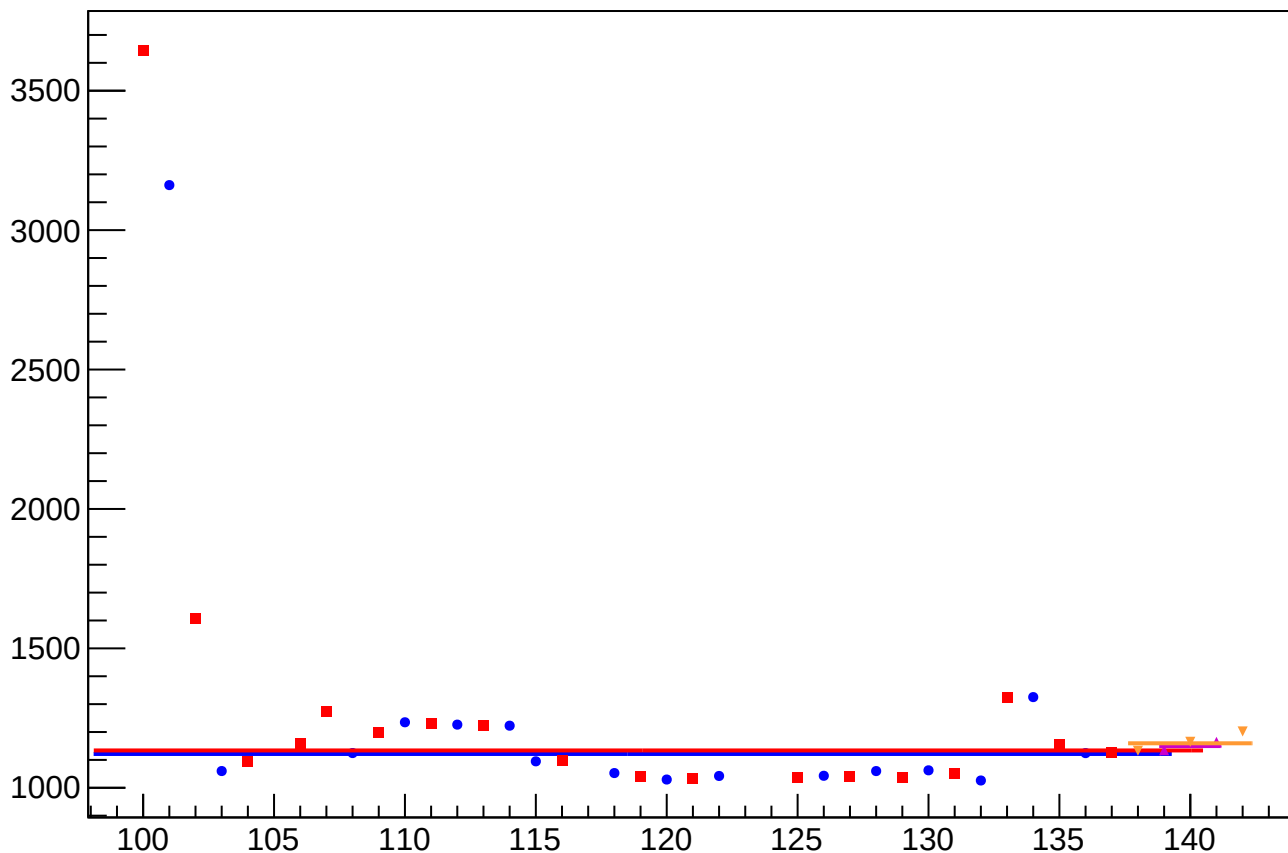
Right: 269.591+/-303.111 χ^2/NDF : 35.6/33

In: 506.095+/-383.359 χ^2/NDF : 19.8/17

Out: 109.787+/-380.037 χ^2/NDF : 20.4/20

All: 306.216+/-269.893 χ^2/NDF : 40.7/38

dit_asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1121.294+/-0.302 χ^2/NDF : 617028.4/15

Left Out: 1159.588+/-0.571 χ^2/NDF : 2005.2/2

Right Out: 1133.929+/-0.305 χ^2/NDF : 227457.1/17

Left In: 1149.689+/-0.618 χ^2/NDF : 588.8/1

Left: 1155.031+/-0.419 χ^2/NDF : 2732.5/4

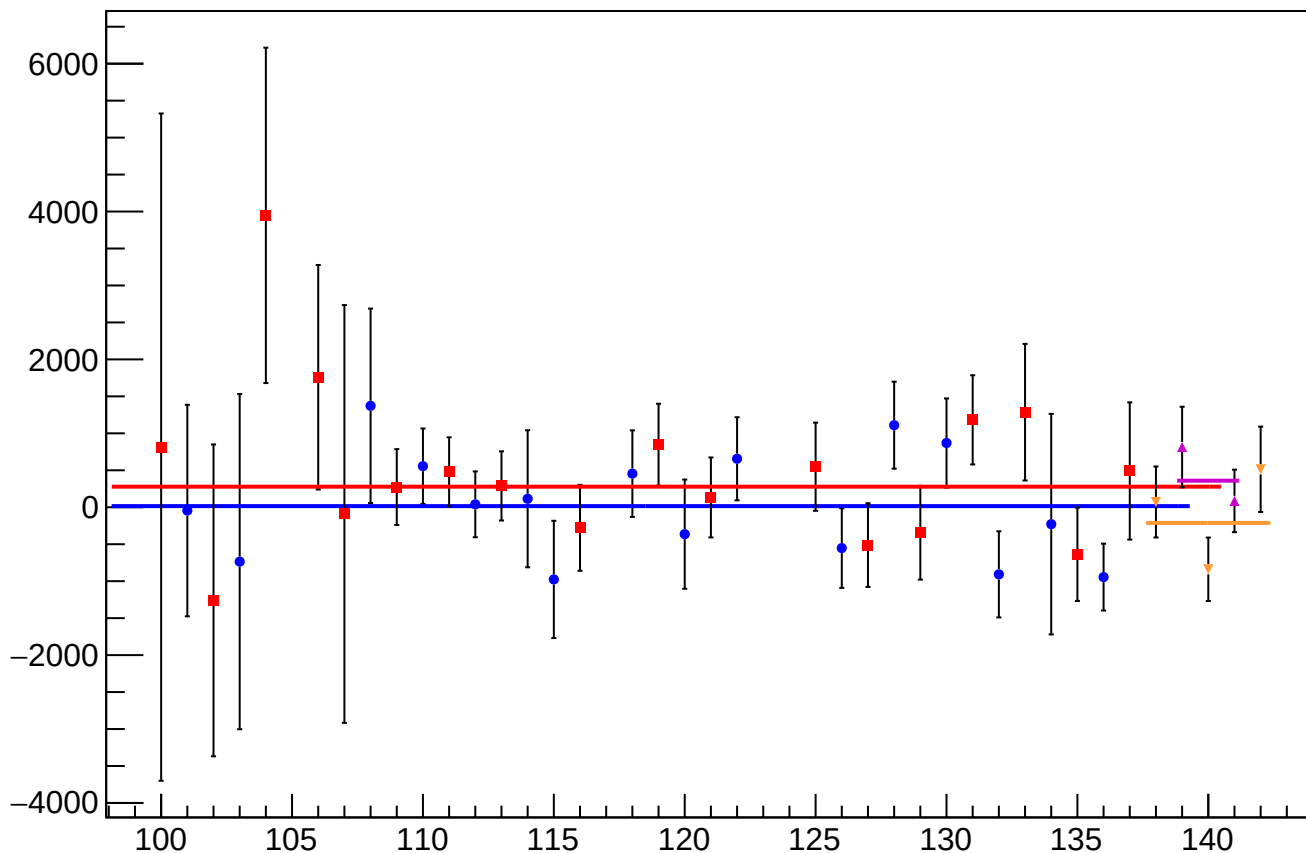
Right: 1127.550+/-0.214 χ^2/NDF : 845354.2/33

In: 1126.758+/-0.271 χ^2/NDF : 619322.3/17

Out: 1139.617+/-0.269 χ^2/NDF : 231035.2/20

All: 1133.243+/-0.191 χ^2/NDF : 851492.4/38

asym_us_dd_atlr_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 15.291 ± 161.845 $\chi^2/\text{NDF}: 19.6/15$

Left Out: -212.186 ± 279.772 $\chi^2/\text{NDF}: 4.1/2$

Right Out: 278.251 ± 158.828 $\chi^2/\text{NDF}: 15.1/17$

Left In: 359.433 ± 333.826 $\chi^2/\text{NDF}: 1.1/1$

Left: 23.655 ± 214.426 $\chi^2/\text{NDF}: 6.9/4$

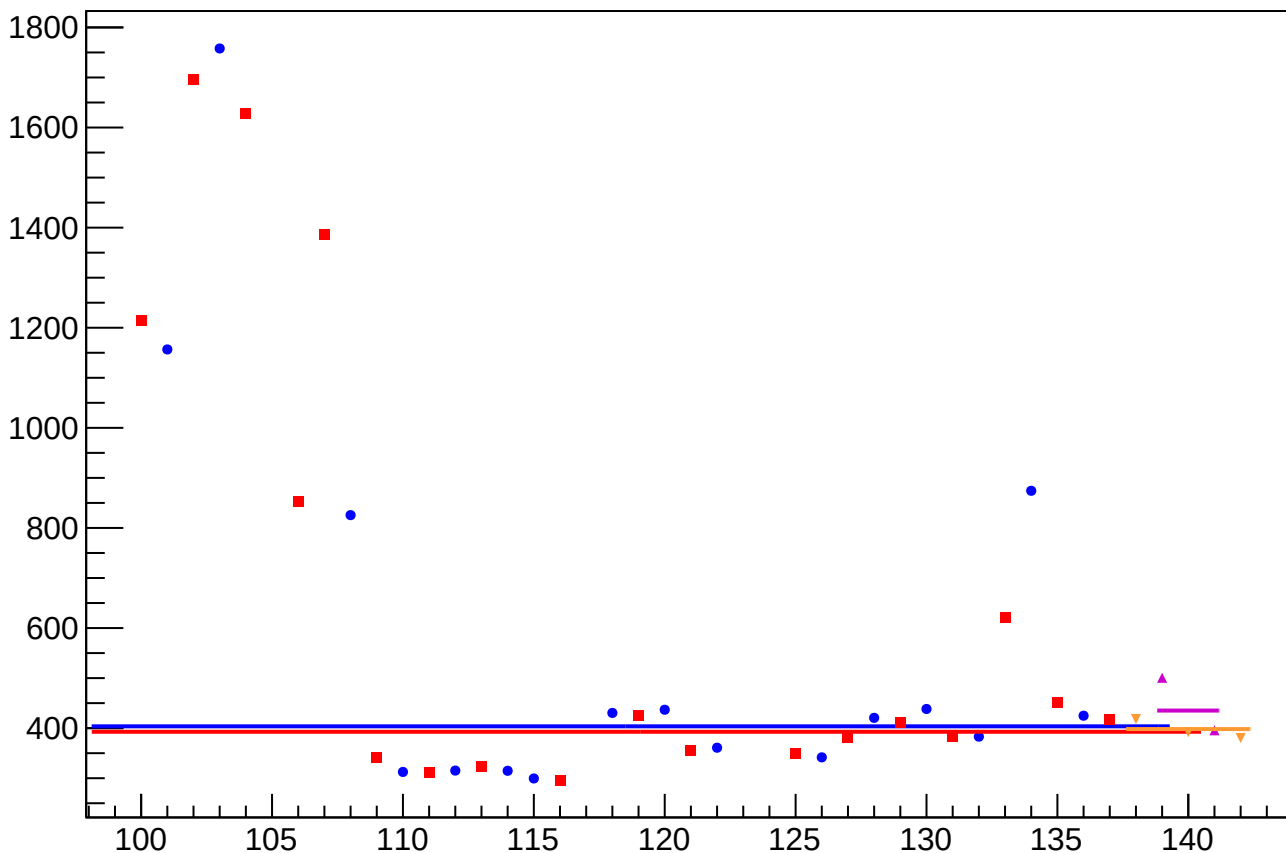
Right: 149.246 ± 113.360 $\chi^2/\text{NDF}: 36.0/33$

In: 80.787 ± 145.632 $\chi^2/\text{NDF}: 21.6/17$

Out: 158.714 ± 138.122 $\chi^2/\text{NDF}: 21.5/20$

All: 121.812 ± 100.217 $\chi^2/\text{NDF}: 43.2/38$

asym_us_dd_atlr_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 403.656+/-0.114 χ^2/NDF : 1929597.5/15

Left Out: 398.204+/-0.198 χ^2/NDF :5782.5/2

Right Out: 392.820+/-0.112 χ^2/NDF : 2203456.1/17

Left In: 435.151+/-0.236 χ^2/NDF :46374.0/1

Left: 413.448+/-0.152 χ^2/NDF : 66547.7/4

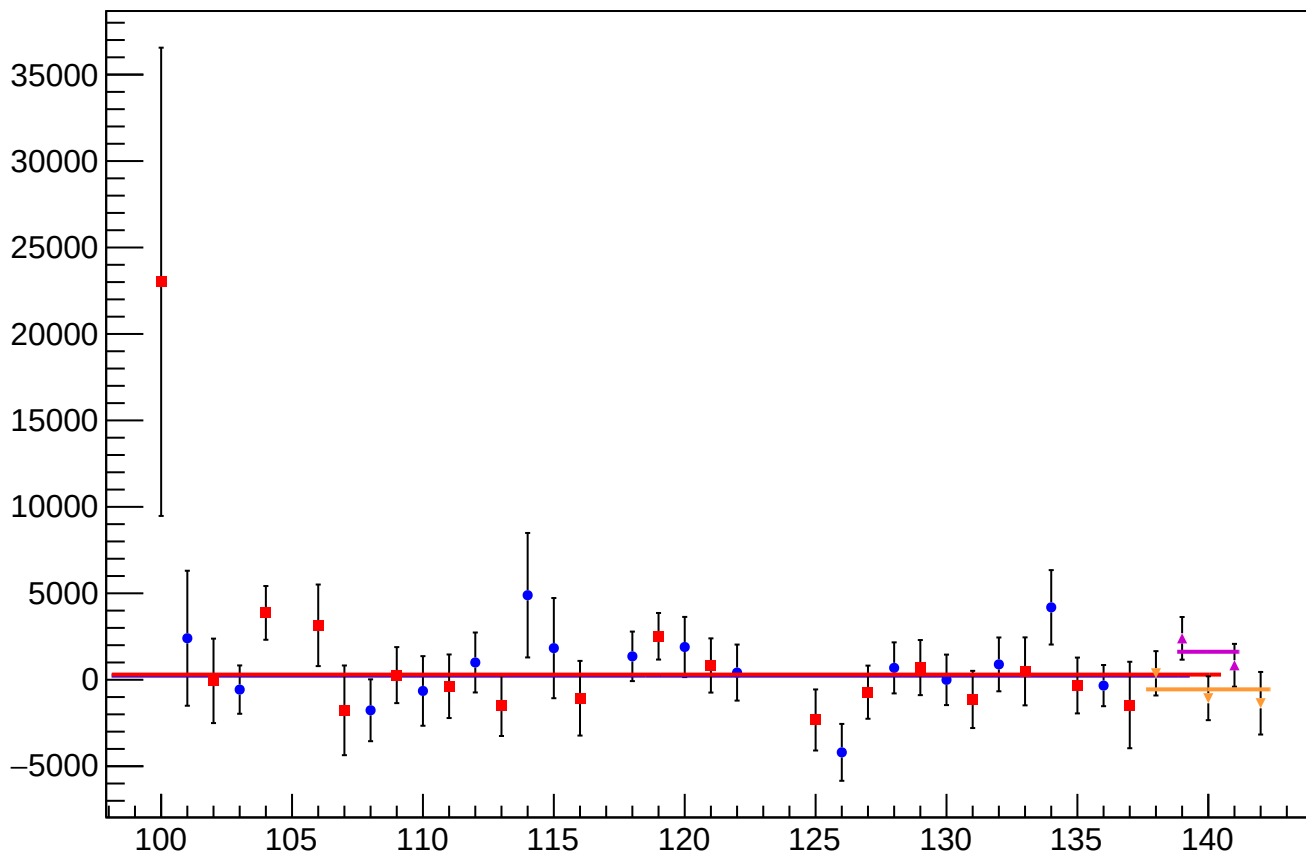
Right: 398.136+/-0.080 χ^2/NDF : 4137620.1/33

In: 409.650+/-0.103 χ^2/NDF :1990385.7/17

Out: 394.133+/-0.098 χ^2/NDF :2209798.7/20

All: 401.481+/-0.071 χ^2/NDF : 4212138.0/38

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 240.829+/-426.592 χ^2/NDF : 17.0/15

Left Out: -554.328+/-807.192 χ^2/NDF : 0.9/2

Right Out: 298.922+/-430.767 χ^2/NDF : 18.7/17

Left In: 1619.412+/-873.939 χ^2/NDF : 0.8/1

Left: 446.373+/-592.965 χ^2/NDF : 5.0/4

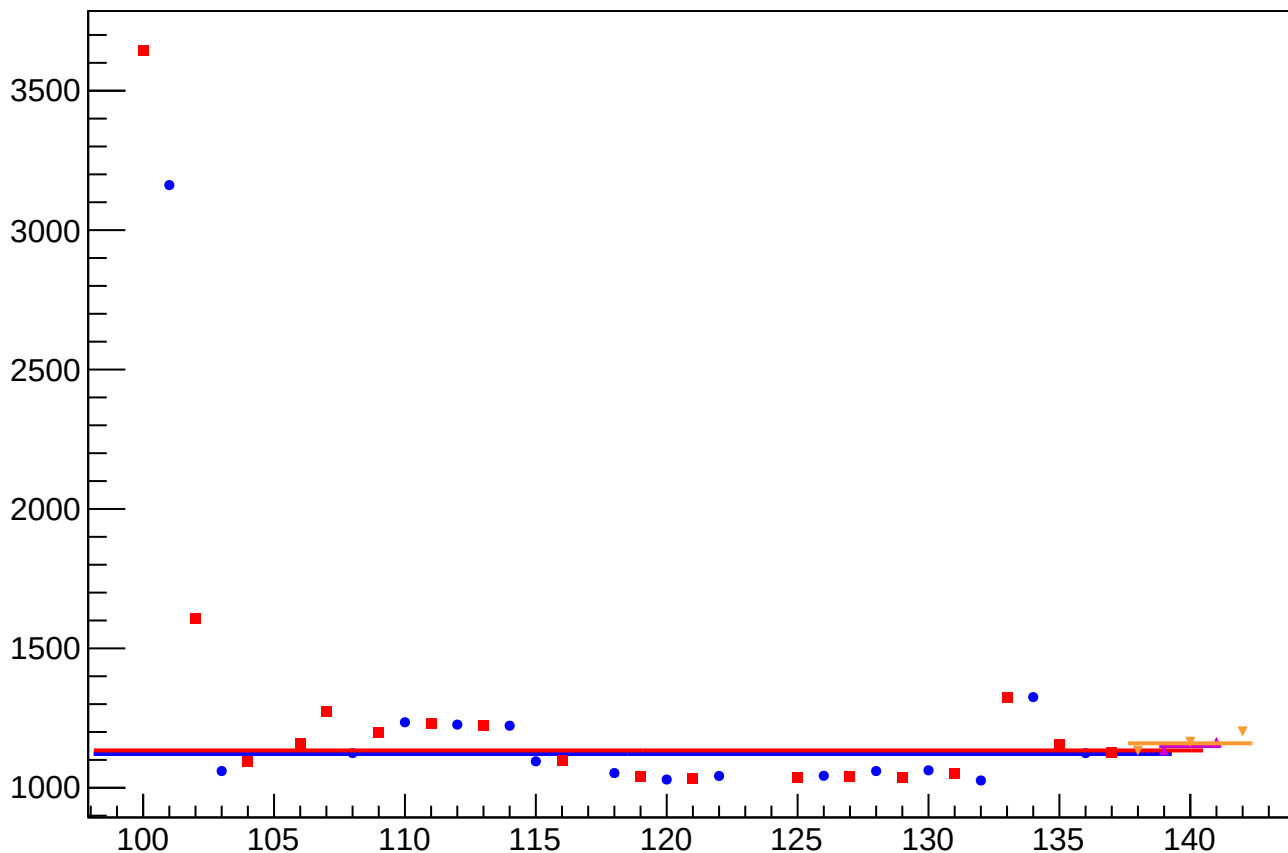
Right: 269.593+/-303.111 χ^2/NDF : 35.6/33

In: 506.096+/-383.359 χ^2/NDF : 19.8/17

Out: 109.786+/-380.037 χ^2/NDF : 20.4/20

All: 306.216+/-269.893 χ^2/NDF : 40.7/38

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1121.294+/-0.302 χ^2/NDF : 617028.4/15

Left Out: 1159.588+/-0.571 χ^2/NDF :2005.2/2

Right Out: 1133.929+/-0.305 χ^2/NDF : 227457.1/17

Left In: 1149.689+/-0.618 χ^2/NDF :588.8/1

Left: 1155.031+/-0.419 χ^2/NDF : 2732.5/4

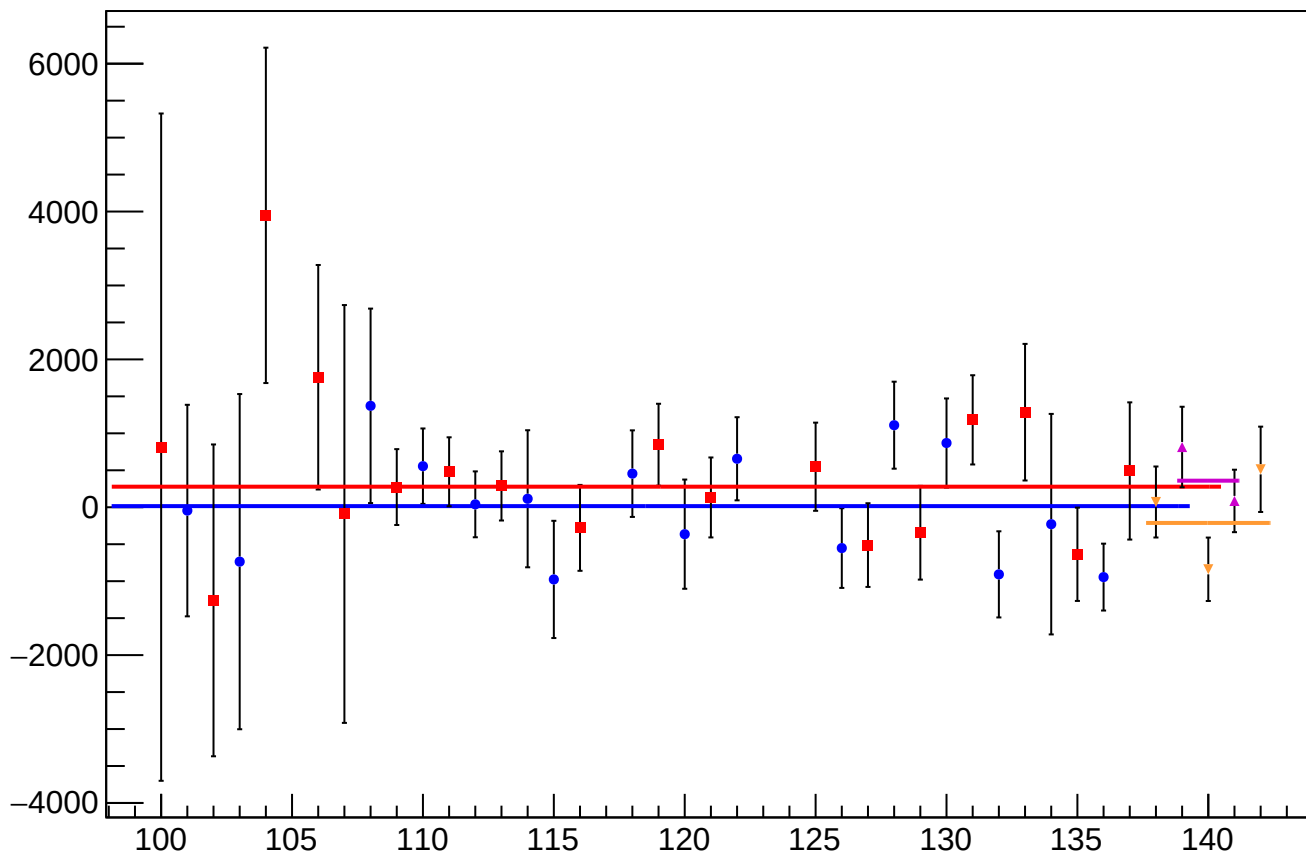
Right: 1127.550+/-0.214 χ^2/NDF : 845354.2/33

In: 1126.758+/-0.271 χ^2/NDF :619322.3/17

Out: 1139.617+/-0.269 χ^2/NDF :231035.3/20

All: 1133.243+/-0.191 χ^2/NDF : 851492.5/38

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 15.288 ± 161.844 $\chi^2/\text{NDF}: 19.6/15$

Left Out: -212.196 ± 279.772 $\chi^2/\text{NDF}: 4.1/2$

Right Out: 278.249 ± 158.826 $\chi^2/\text{NDF}: 15.1/17$

Left In: 359.434 ± 333.826 $\chi^2/\text{NDF}: 1.1/1$

Left: 23.650 ± 214.426 $\chi^2/\text{NDF}: 6.9/4$

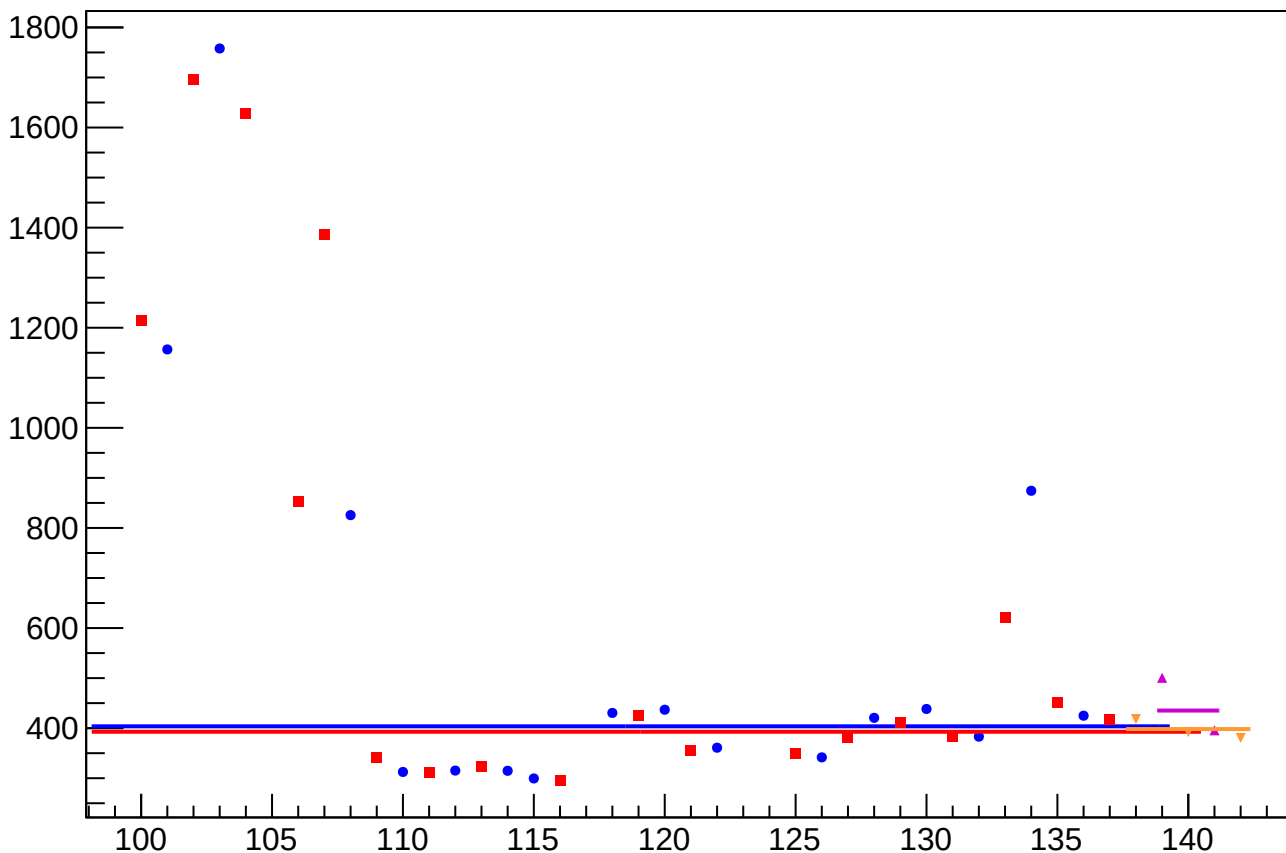
Right: 149.243 ± 113.359 $\chi^2/\text{NDF}: 36.0/33$

In: 80.783 ± 145.631 $\chi^2/\text{NDF}: 21.6/17$

Out: 158.712 ± 138.121 $\chi^2/\text{NDF}: 21.5/20$

All: 121.809 ± 100.216 $\chi^2/\text{NDF}: 43.2/38$

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 403.653+/-0.114 χ^2/NDF : 1929594.3/15

Left Out: 398.204+/-0.198 χ^2/NDF : 5779.9/2

Right Out: 392.817+/-0.112 χ^2/NDF : 2203462.7/17

Left In: 435.150+/-0.236 χ^2/NDF : 46372.8/1

Left: 413.448+/-0.152 χ^2/NDF : 66542.9/4

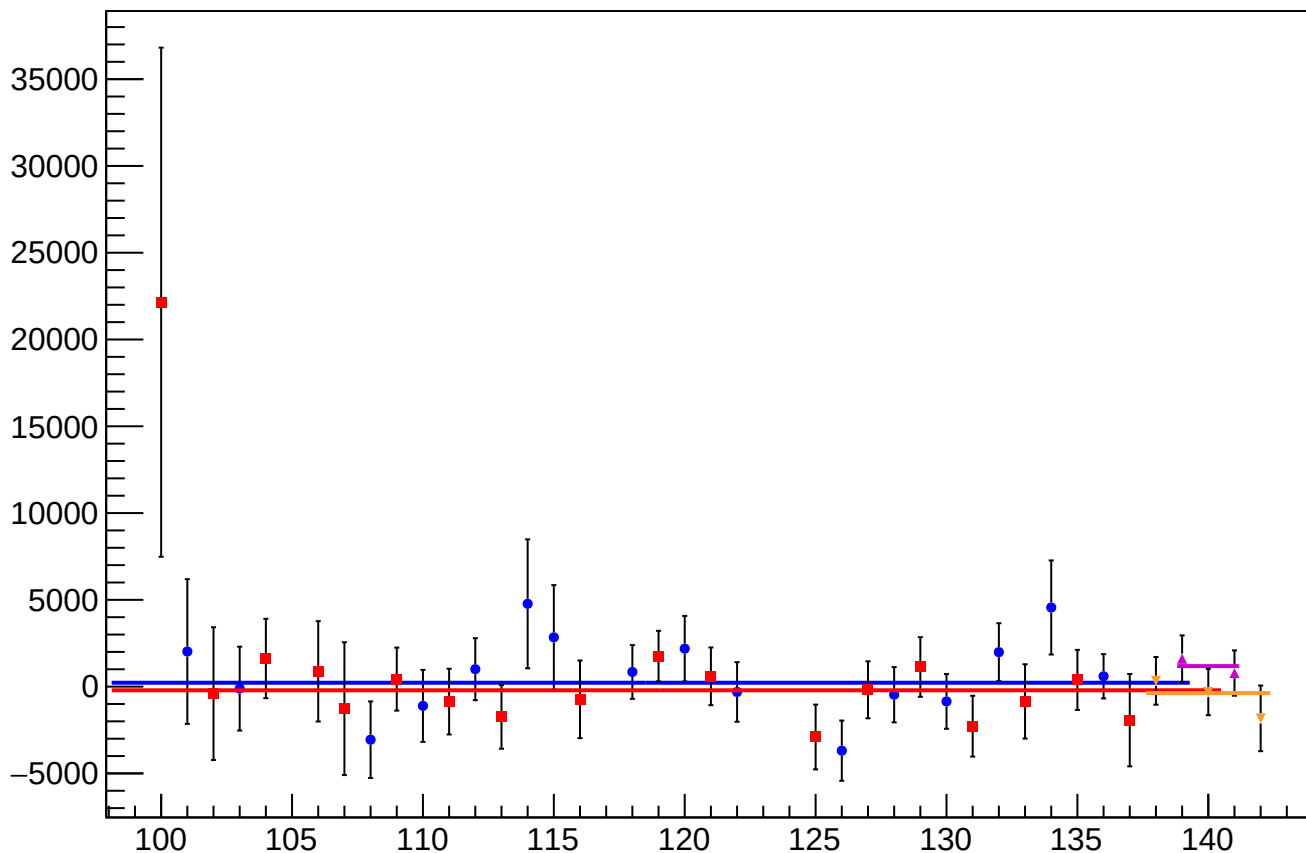
Right: 398.133+/-0.080 χ^2/NDF : 4137623.7/33

In: 409.647+/-0.103 χ^2/NDF : 1990383.4/17

Out: 394.130+/-0.098 χ^2/NDF : 2209803.4/20

All: 401.478+/-0.071 χ^2/NDF : 4212140.1/38

asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 224.817+/-474.559 χ^2/NDF : 16.1/15

Left Out: -371.566+/-854.840 χ^2/NDF : 0.9/2

Right Out: -209.751+/-477.820 χ^2/NDF : 11.0/17

Left In: 1181.681+/-937.373 χ^2/NDF : 0.2/1

Left: 333.680+/-631.630 χ^2/NDF : 2.6/4

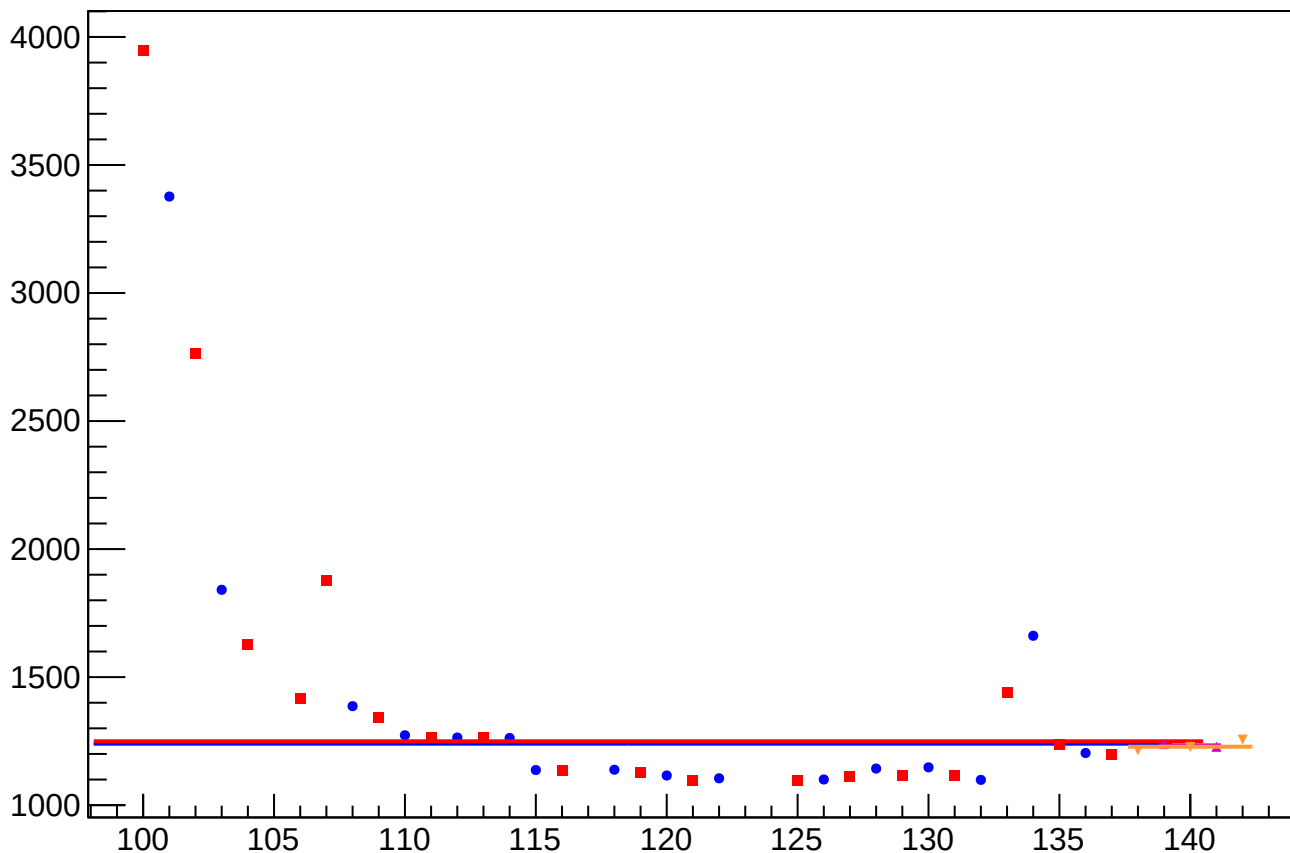
Right: 9.021+/-336.711 χ^2/NDF : 27.5/33

In: 420.030+/-423.392 χ^2/NDF : 17.1/17

Out: -248.272+/-417.086 χ^2/NDF : 11.8/20

All: 80.865+/-297.129 χ^2/NDF : 30.3/38

asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1240.140+/-0.336 χ^2/NDF : 782679.7/15

Left Out: 1228.207+/-0.604 χ^2/NDF : 627.2/2

Right Out: 1249.410+/-0.338 χ^2/NDF : 606099.2/17

Left In: 1233.296+/-0.663 χ^2/NDF : 66.3/1

Left: 1230.518+/-0.447 χ^2/NDF : 725.7/4

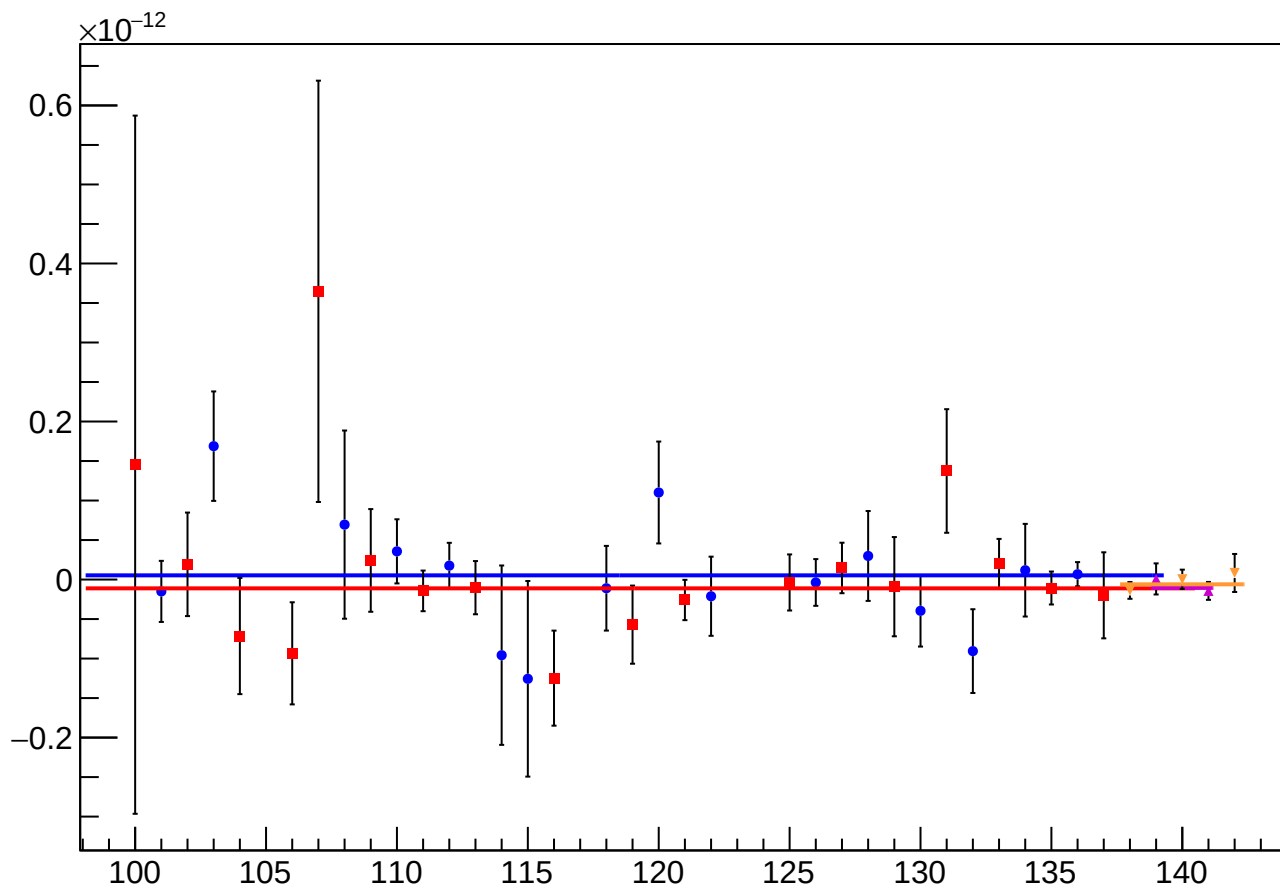
Right: 1244.743+/-0.238 χ^2/NDF : 1389157.9/33

In: 1238.744+/-0.299 χ^2/NDF : 782830.9/17

Out: 1244.363+/-0.295 χ^2/NDF : 607663.9/20

All: 1241.595+/-0.210 χ^2/NDF : 1390673.6/38

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.2/2

Right Out: -0.000+/-0.000 χ^2/NDF : 15.0/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.4/1

Left: -0.000+/-0.000 χ^2/NDF : 1.7/4

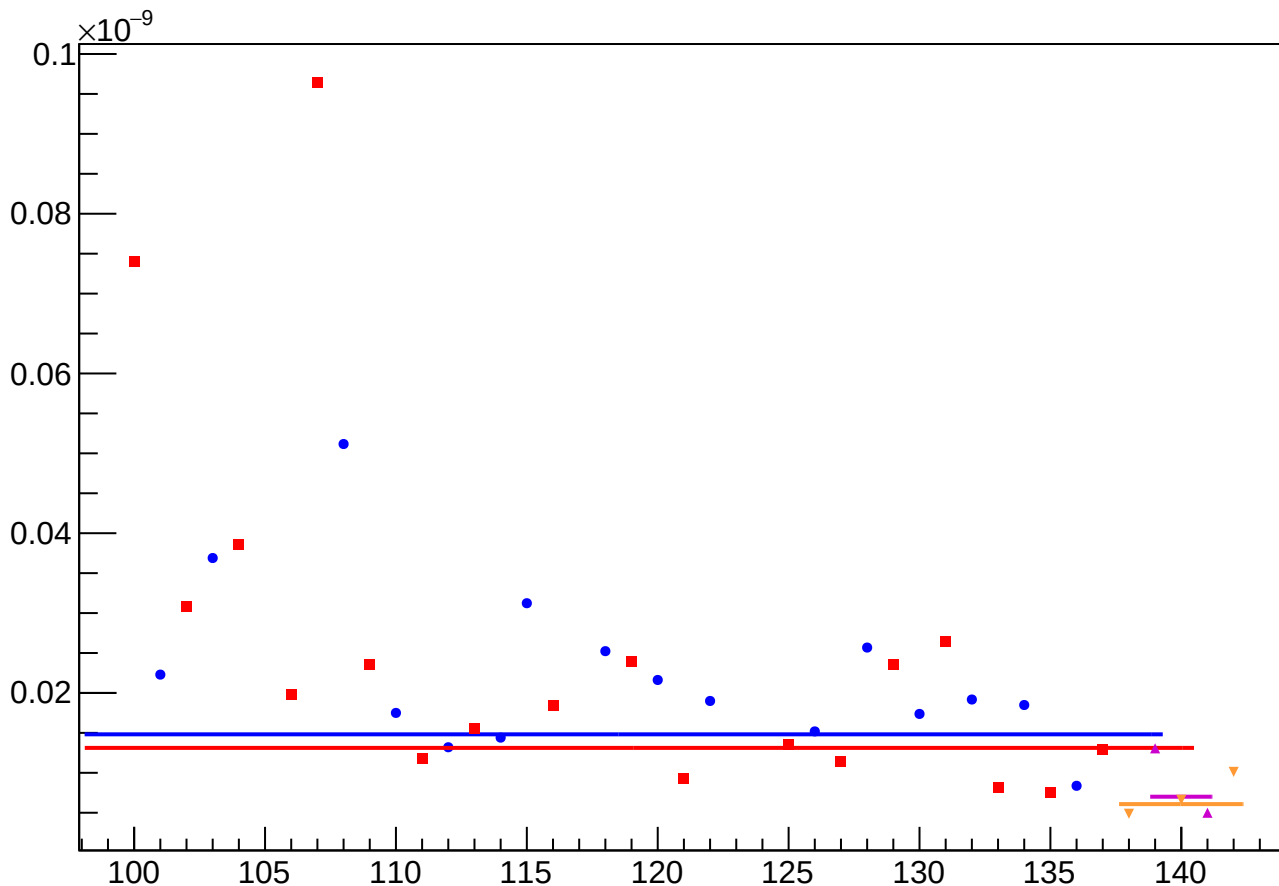
Right: -0.000+/-0.000 χ^2/NDF : 32.9/33

In: -0.000+/-0.000 χ^2/NDF : 18.1/17

Out: -0.000+/-0.000 χ^2/NDF : 16.4/20

All: -0.000+/-0.000 χ^2/NDF : 34.9/38

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1081472.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 86096.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1181949.6/17

Left In: 0.000+/-0.000 χ^2/NDF : 252163.4/1

Left: 0.000+/-0.000 χ^2/NDF : 349396.2/4

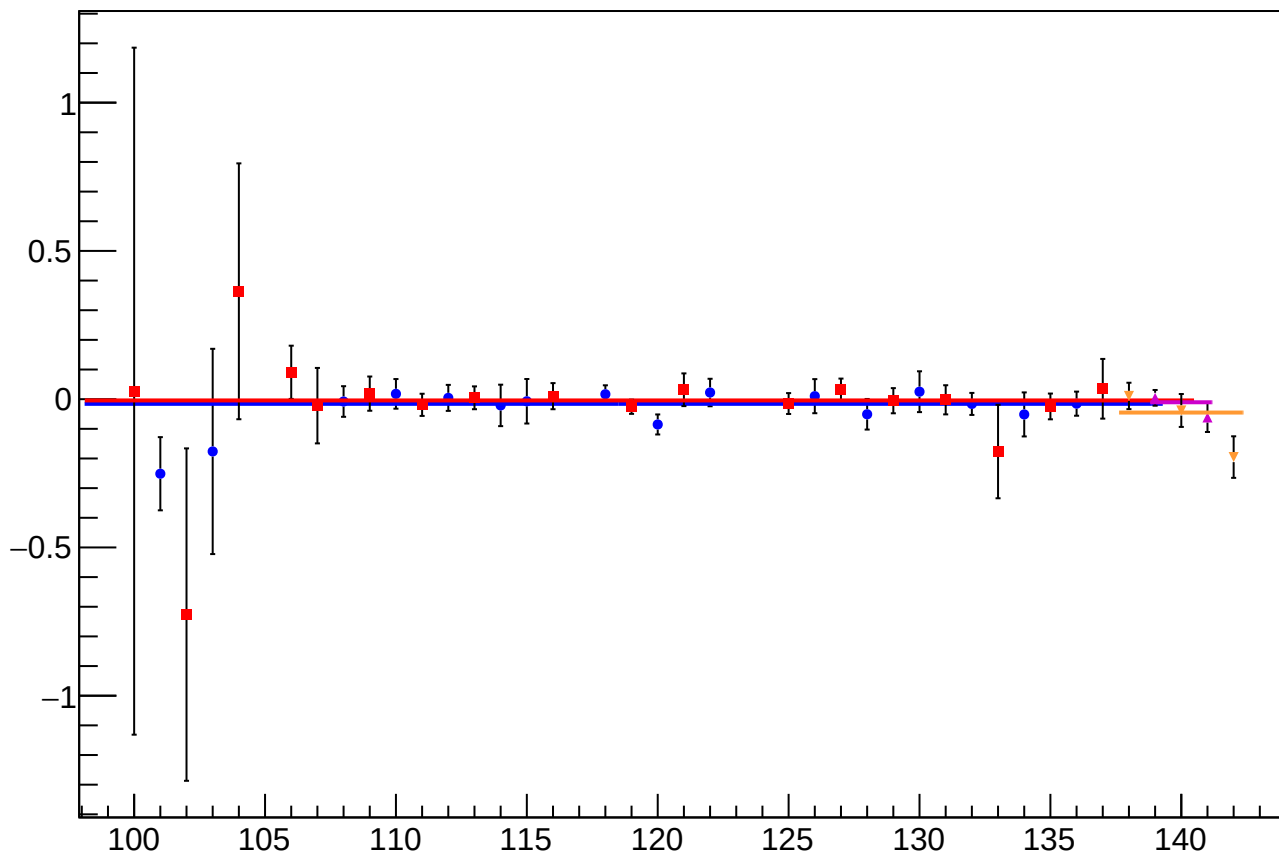
Right: 0.000+/-0.000 χ^2/NDF : 2295265.5/33

In: 0.000+/-0.000 χ^2/NDF : 1976756.3/17

Out: 0.000+/-0.000 χ^2/NDF : 1948676.9/20

All: 0.000+/-0.000 χ^2/NDF : 4033546.9/38

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 11.9/15

Left Out: -0.045 ± 0.031 χ^2/NDF : 6.2/2

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.010 ± 0.023 χ^2/NDF : 1.4/1

Left: -0.023 ± 0.019 χ^2/NDF : 8.4/4

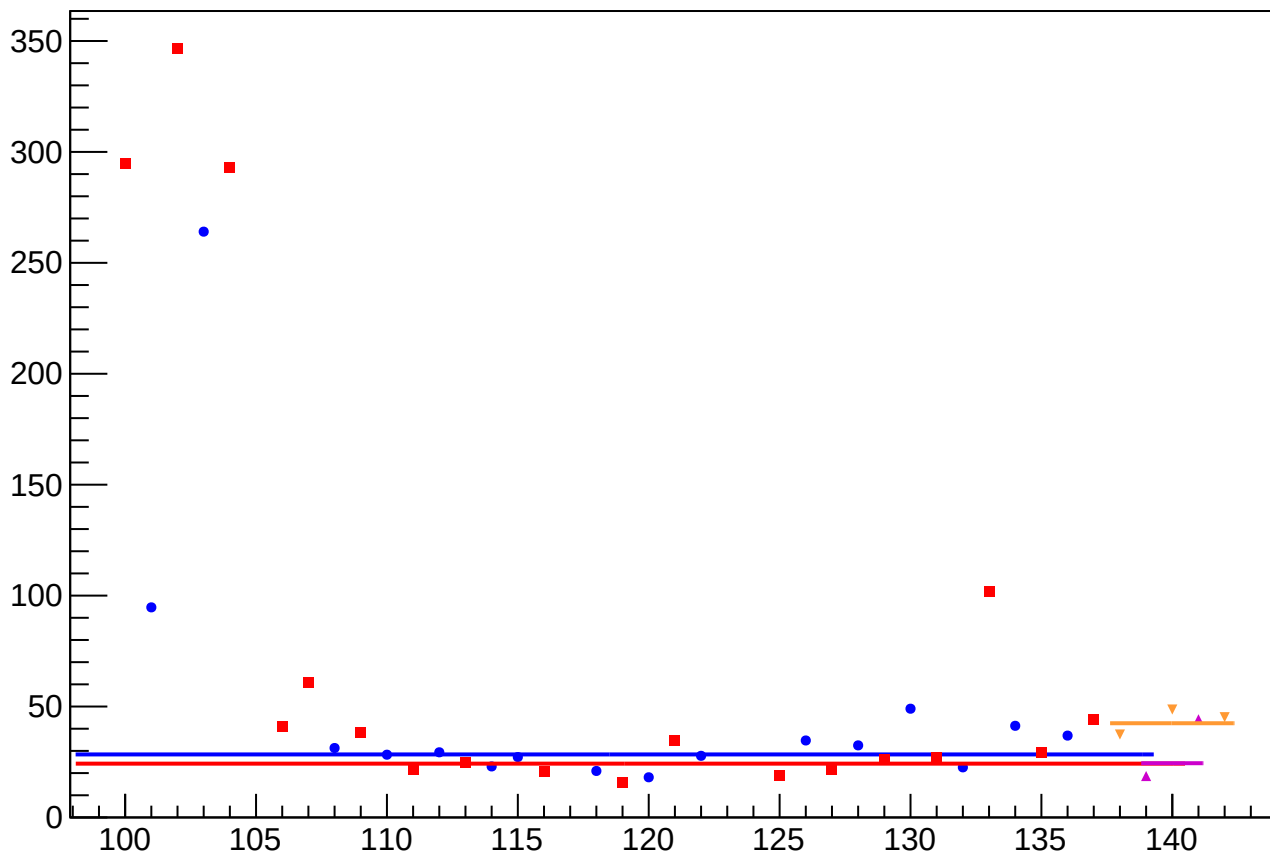
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.015 ± 0.011 χ^2/NDF : 13.3/17

Out: -0.009 ± 0.011 χ^2/NDF : 15.6/20

All: -0.012 ± 0.008 χ^2/NDF : 29.0/38

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 28.411+/-0.009 χ^2/NDF : 2245642.8/15

Left Out: 42.471+/-0.022 χ^2/NDF : 53875.2/2

Right Out: 24.255+/-0.008 χ^2/NDF : 2913469.3/17

Left In: 24.451+/-0.016 χ^2/NDF : 421301.8/1

Left: 30.933+/-0.013 χ^2/NDF : 904850.5/4

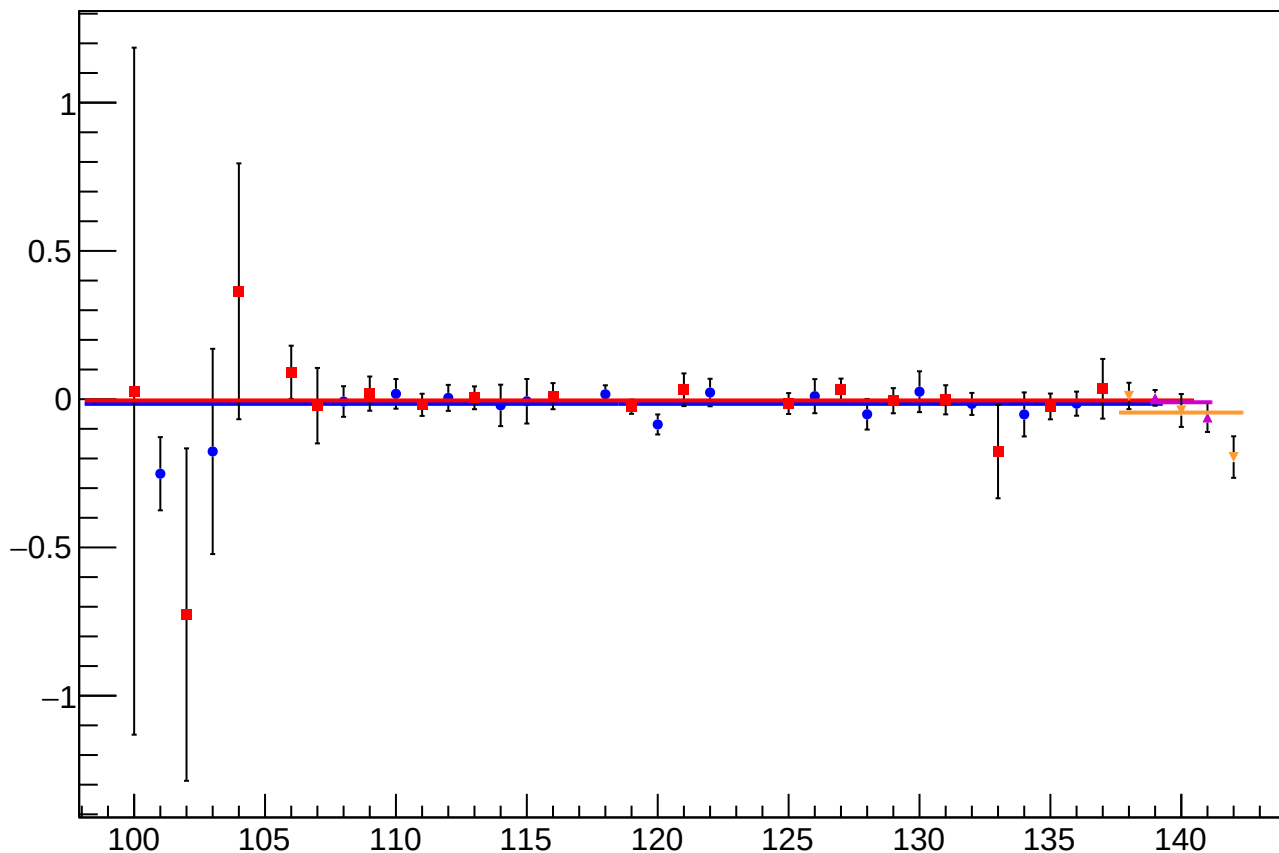
Right: 26.181+/-0.006 χ^2/NDF : 5281459.7/33

In: 27.548+/-0.008 χ^2/NDF : 2712068.5/17

Out: 26.425+/-0.008 χ^2/NDF : 3571371.3/20

All: 26.979+/-0.005 χ^2/NDF : 6294242.5/38

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 11.9/15

Left Out: -0.045 ± 0.031 χ^2/NDF : 6.2/2

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.010 ± 0.023 χ^2/NDF : 1.4/1

Left: -0.023 ± 0.019 χ^2/NDF : 8.4/4

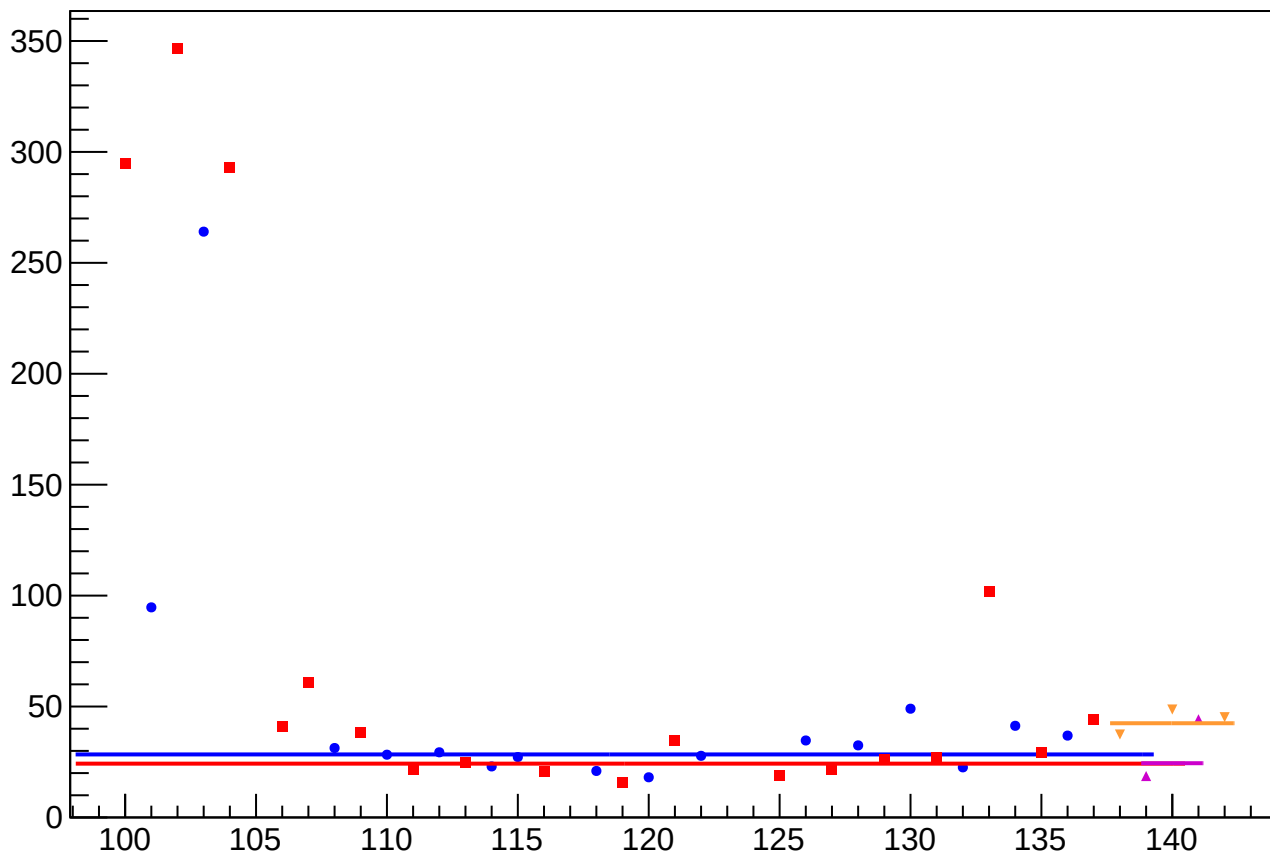
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.015 ± 0.011 χ^2/NDF : 13.3/17

Out: -0.009 ± 0.011 χ^2/NDF : 15.6/20

All: -0.012 ± 0.008 χ^2/NDF : 29.0/38

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 28.411+/-0.009 χ^2/NDF : 2245642.8/15

Left Out: 42.471+/-0.022 χ^2/NDF : 53875.2/2

Right Out: 24.255+/-0.008 χ^2/NDF : 2913469.3/17

Left In: 24.451+/-0.016 χ^2/NDF : 421301.8/1

Left: 30.933+/-0.013 χ^2/NDF : 904850.5/4

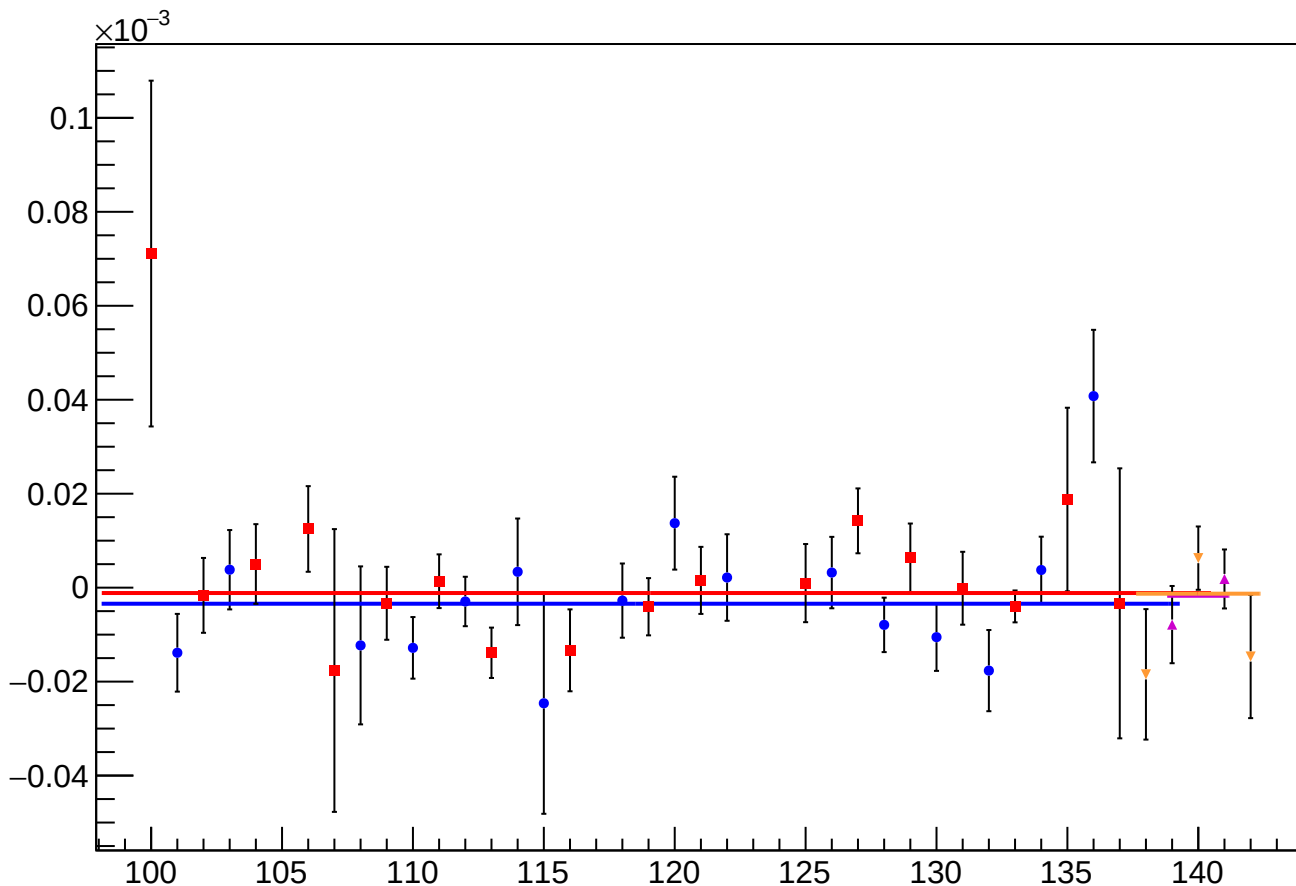
Right: 26.181+/-0.006 χ^2/NDF : 5281459.7/33

In: 27.548+/-0.008 χ^2/NDF : 2712068.5/17

Out: 26.425+/-0.008 χ^2/NDF : 3571371.3/20

All: 26.979+/-0.005 χ^2/NDF : 6294242.5/38

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 25.1/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.8/2

Right Out: -0.000+/-0.000 χ^2/NDF : 23.0/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.9/1

Left: -0.000+/-0.000 χ^2/NDF : 4.7/4

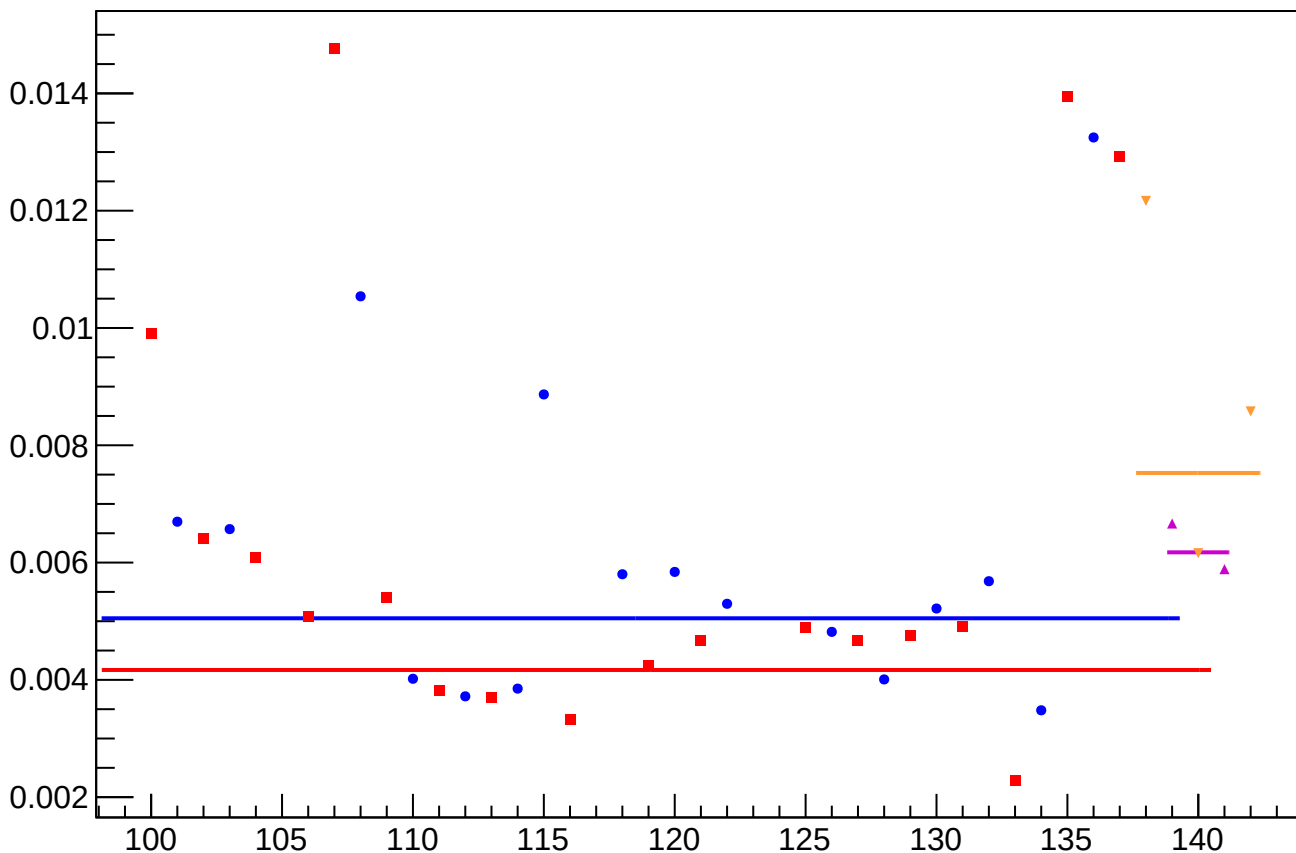
Right: -0.000+/-0.000 χ^2/NDF : 48.9/33

In: -0.000+/-0.000 χ^2/NDF : 26.1/17

Out: -0.000+/-0.000 χ^2/NDF : 26.8/20

All: -0.000+/-0.000 χ^2/NDF : 53.6/38

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1494215.1/15

Left Out: 0.008+/-0.000 χ^2/NDF :318527.0/2

Right Out: 0.004+/-0.000 χ^2/NDF : 2041975.6/17

Left In: 0.006+/-0.000 χ^2/NDF :11314.8/1

Left: 0.007+/-0.000 χ^2/NDF : 396237.1/4

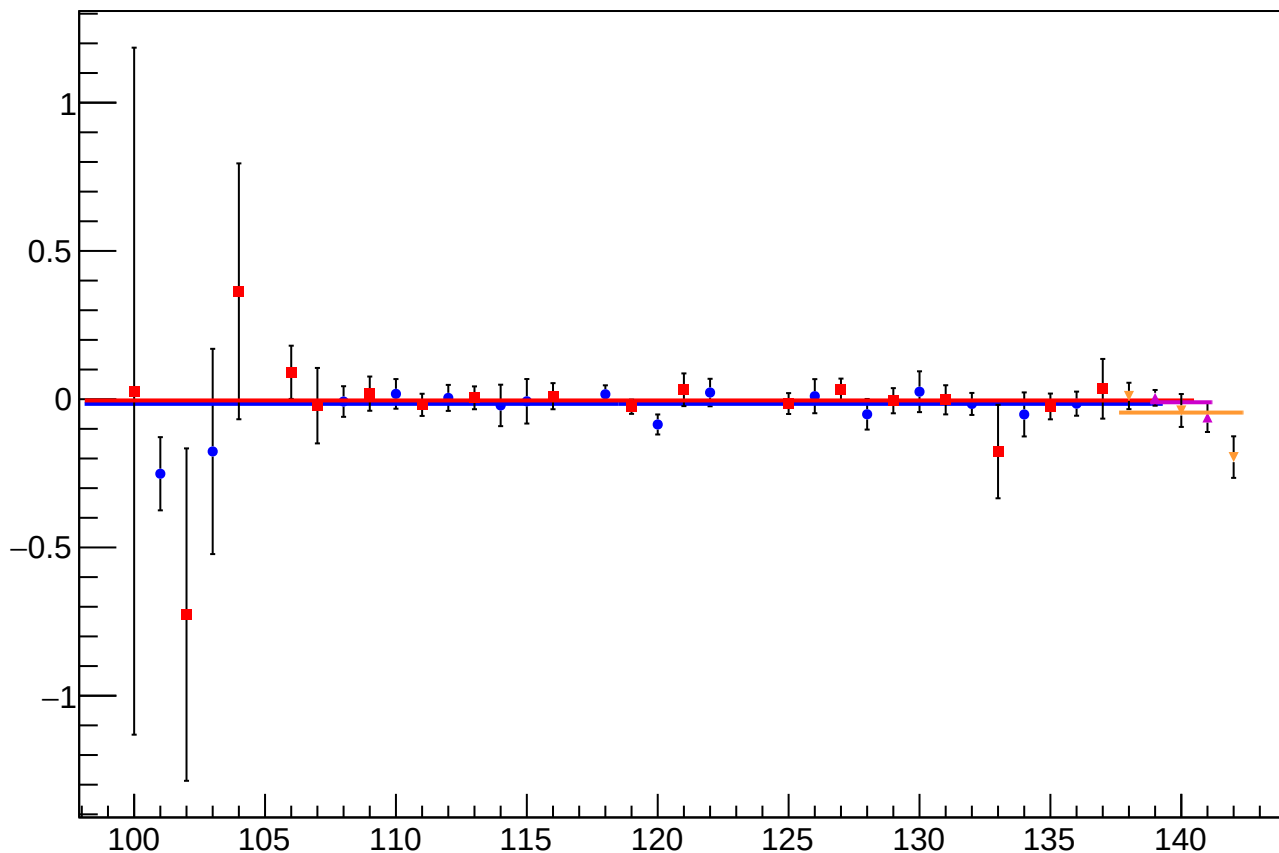
Right: 0.005+/-0.000 χ^2/NDF : 3758667.6/33

In: 0.005+/-0.000 χ^2/NDF :1592764.2/17

Out: 0.004+/-0.000 χ^2/NDF :3041214.4/20

All: 0.005+/-0.000 χ^2/NDF : 4815841.2/38

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 11.9/15

Left Out: -0.045 ± 0.031 χ^2/NDF : 6.2/2

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.010 ± 0.023 χ^2/NDF : 1.4/1

Left: -0.023 ± 0.019 χ^2/NDF : 8.4/4

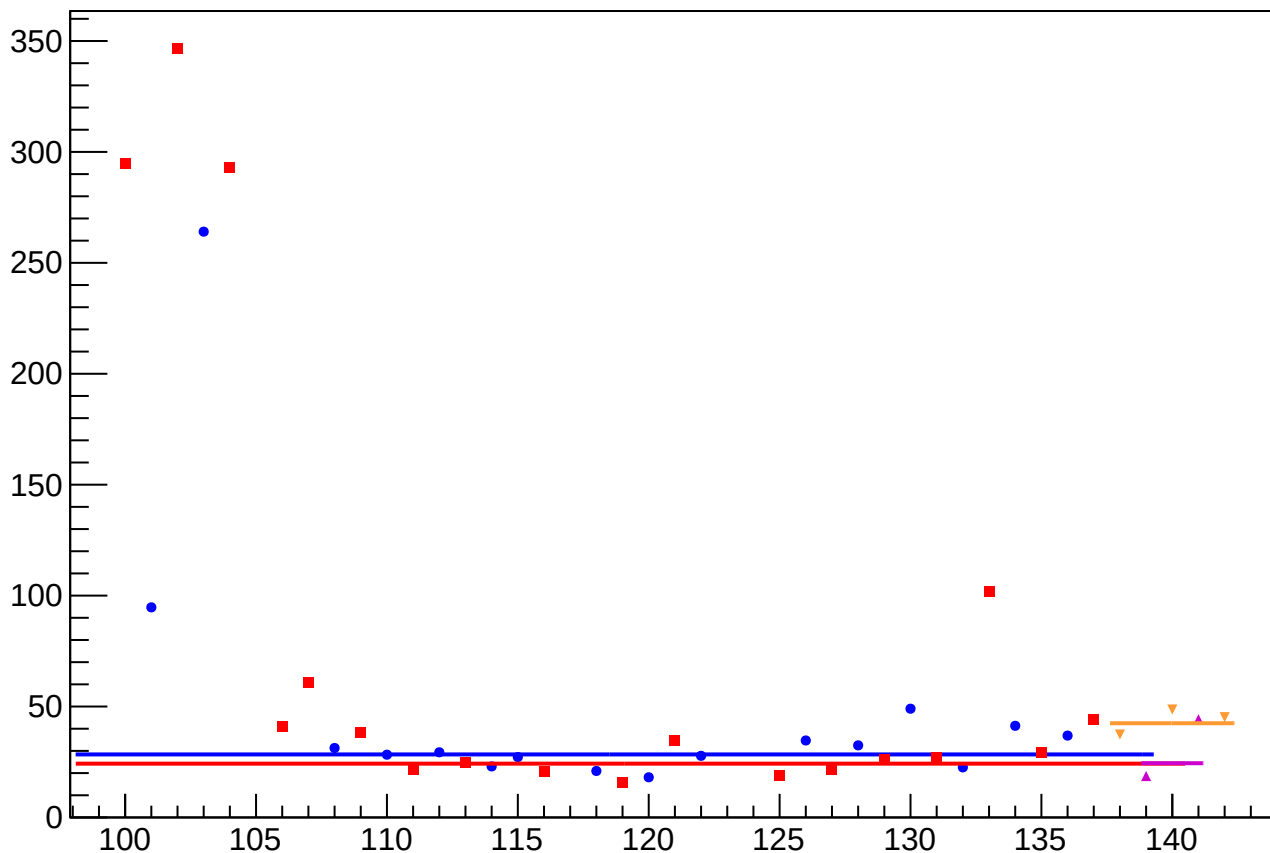
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.015 ± 0.011 χ^2/NDF : 13.3/17

Out: -0.009 ± 0.011 χ^2/NDF : 15.6/20

All: -0.012 ± 0.008 χ^2/NDF : 29.0/38

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 28.411 ± 0.009 $\chi^2/\text{NDF}: 2245663.3/15$

Left Out: 42.472 ± 0.022 $\chi^2/\text{NDF}: 53921.2/2$

Right Out: 24.254 ± 0.008 $\chi^2/\text{NDF}: 2913710.0/17$

Left In: 24.448 ± 0.016 $\chi^2/\text{NDF}: 421484.4/1$

Left: 30.931 ± 0.013 $\chi^2/\text{NDF}: 905275.6/4$

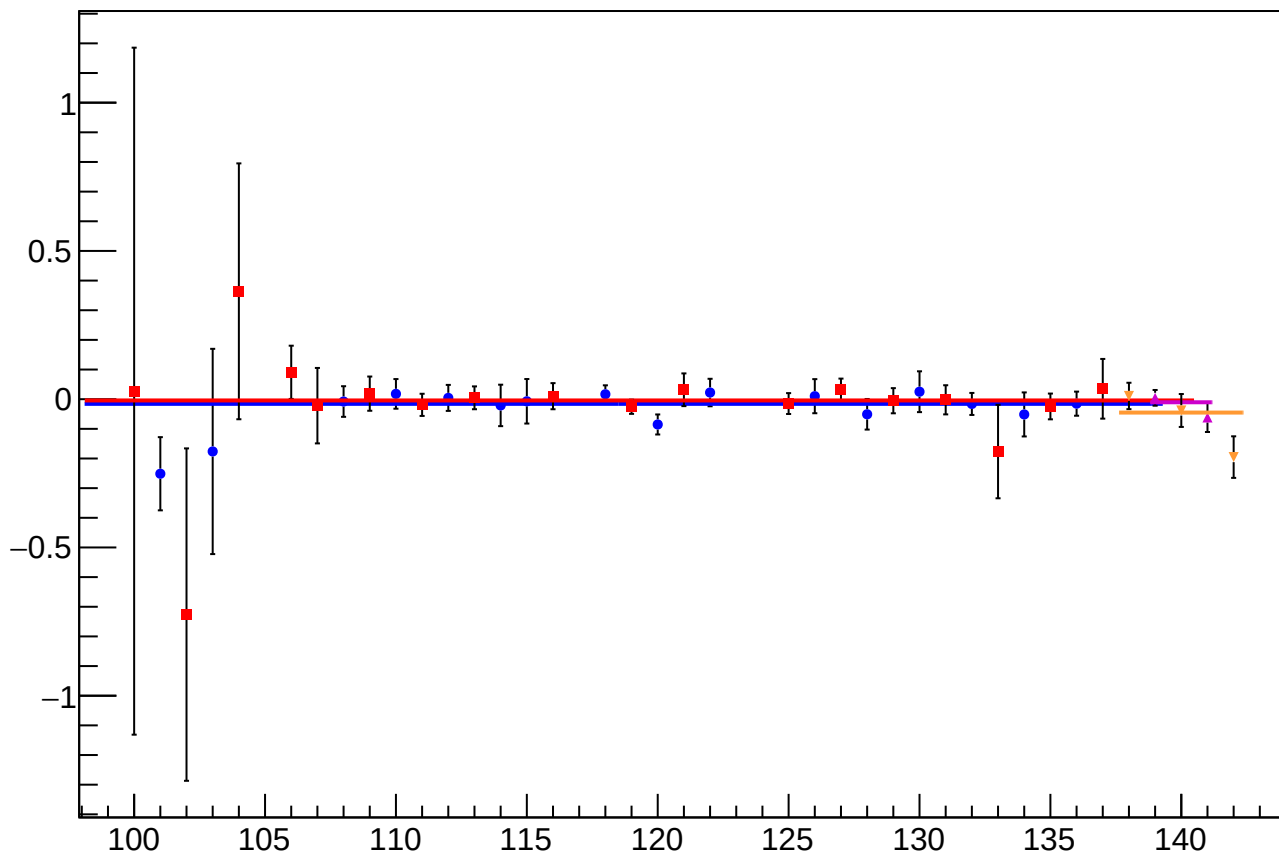
Right: 26.180 ± 0.006 $\chi^2/\text{NDF}: 5281817.4/33$

In: 27.548 ± 0.008 $\chi^2/\text{NDF}: 2712330.2/17$

Out: 26.423 ± 0.008 $\chi^2/\text{NDF}: 3571846.1/20$

All: 26.978 ± 0.005 $\chi^2/\text{NDF}: 6294996.9/38$

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 11.9/15

Left Out: -0.045 ± 0.031 χ^2/NDF : 6.2/2

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.010 ± 0.023 χ^2/NDF : 1.4/1

Left: -0.023 ± 0.019 χ^2/NDF : 8.4/4

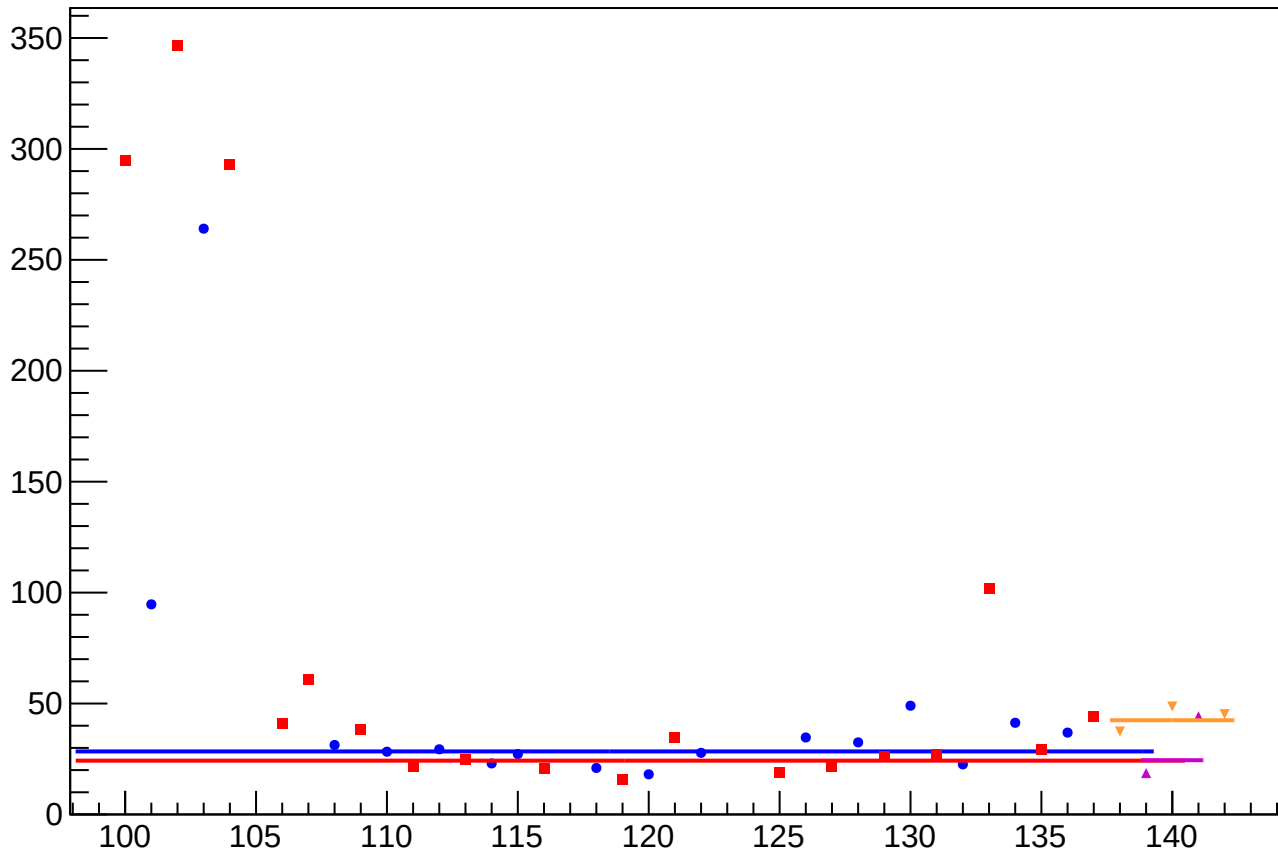
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.015 ± 0.011 χ^2/NDF : 13.3/17

Out: -0.009 ± 0.011 χ^2/NDF : 15.6/20

All: -0.012 ± 0.008 χ^2/NDF : 29.0/38

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 28.411+/-0.009 χ^2/NDF : 2245663.3/15

Left Out: 42.472+/-0.022 χ^2/NDF : 53921.2/2

Right Out: 24.254+/-0.008 χ^2/NDF : 2913710.0/17

Left In: 24.448+/-0.016 χ^2/NDF : 421484.4/1

Left: 30.931+/-0.013 χ^2/NDF : 905275.6/4

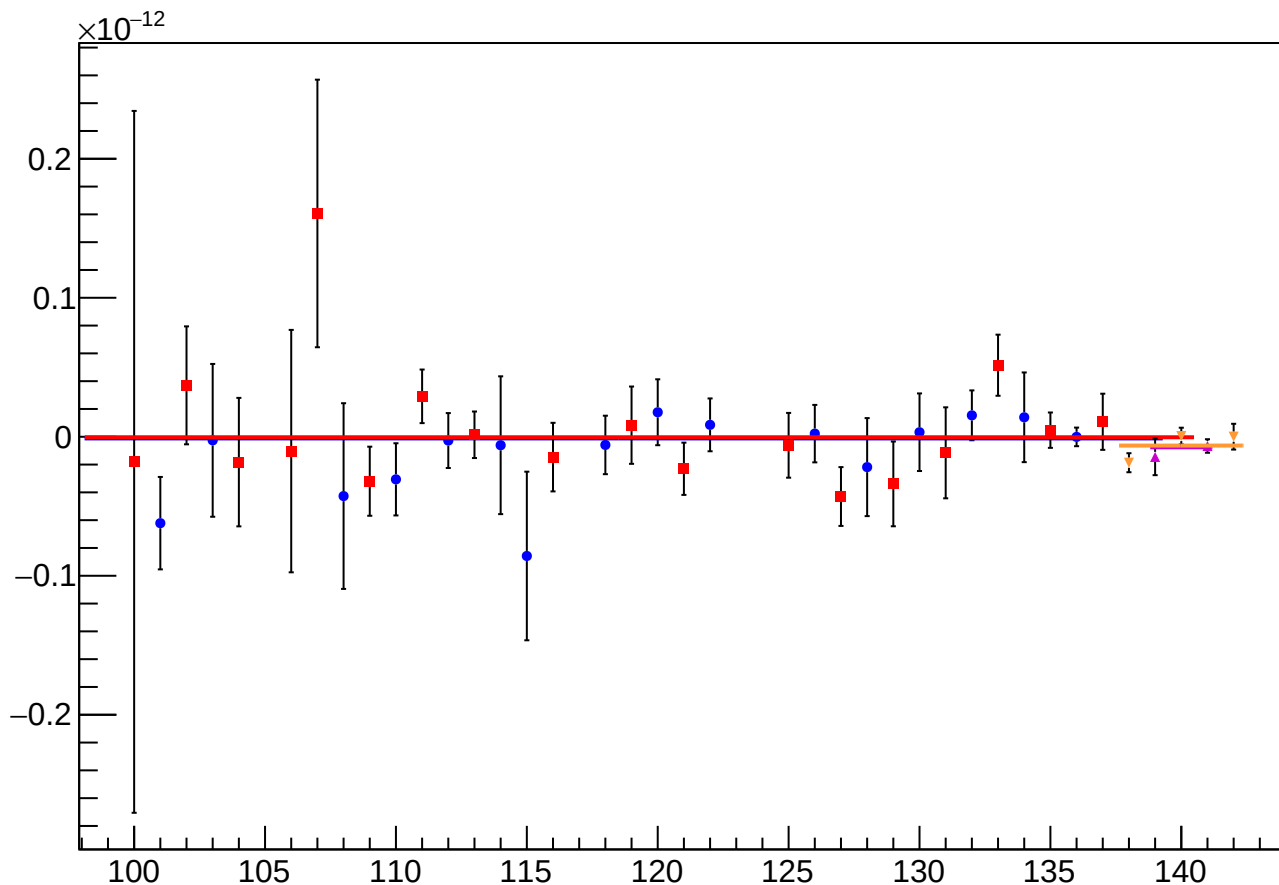
Right: 26.180+/-0.006 χ^2/NDF : 5281817.4/33

In: 27.548+/-0.008 χ^2/NDF : 2712330.2/17

Out: 26.423+/-0.008 χ^2/NDF : 3571846.1/20

All: 26.978+/-0.005 χ^2/NDF : 6294996.9/38

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 9.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 5.0/2

Right Out: -0.000+/-0.000 χ^2/NDF : 21.1/17

Left In: -0.000+/-0.000 χ^2/NDF : 0.3/1

Left: -0.000+/-0.000 χ^2/NDF : 5.4/4

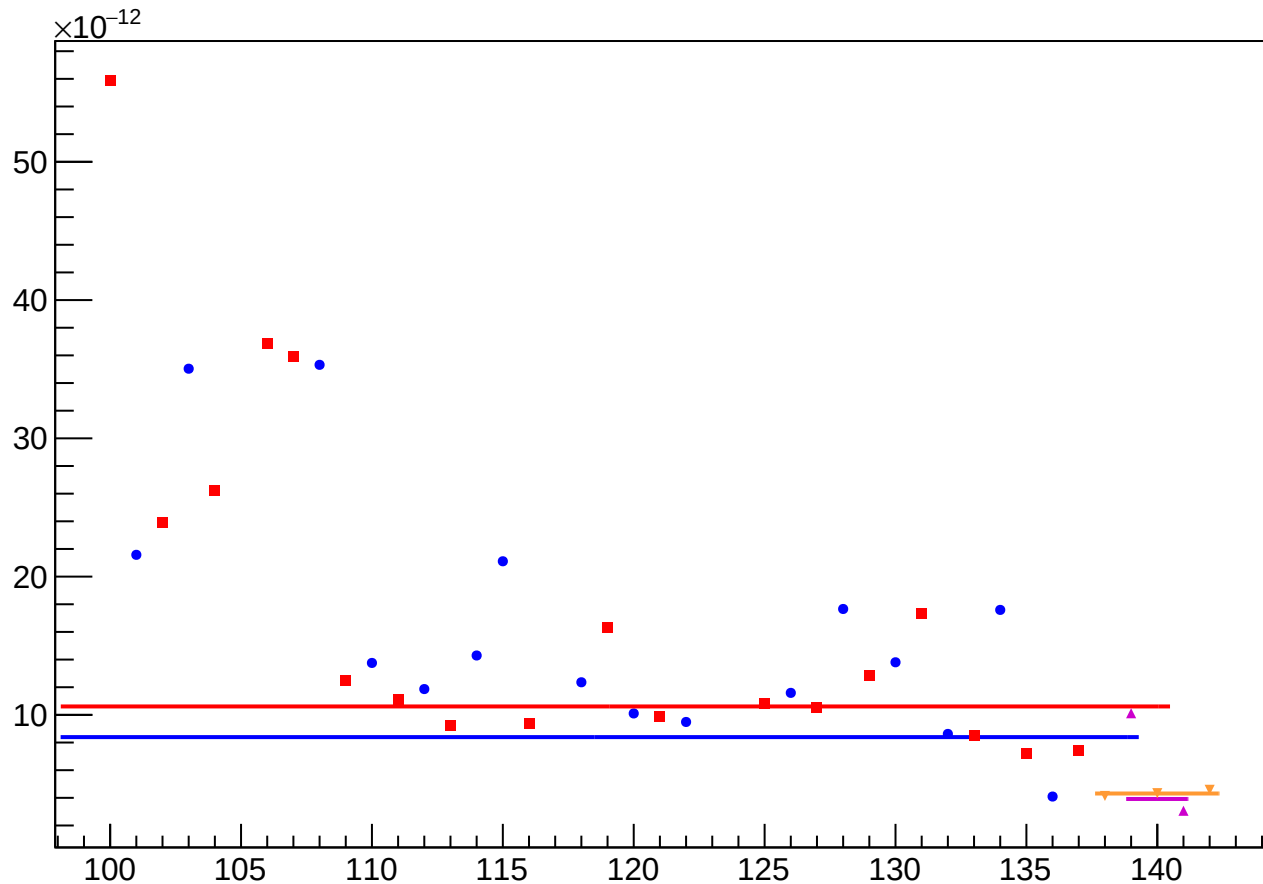
Right: -0.000+/-0.000 χ^2/NDF : 30.5/33

In: -0.000+/-0.000 χ^2/NDF : 10.7/17

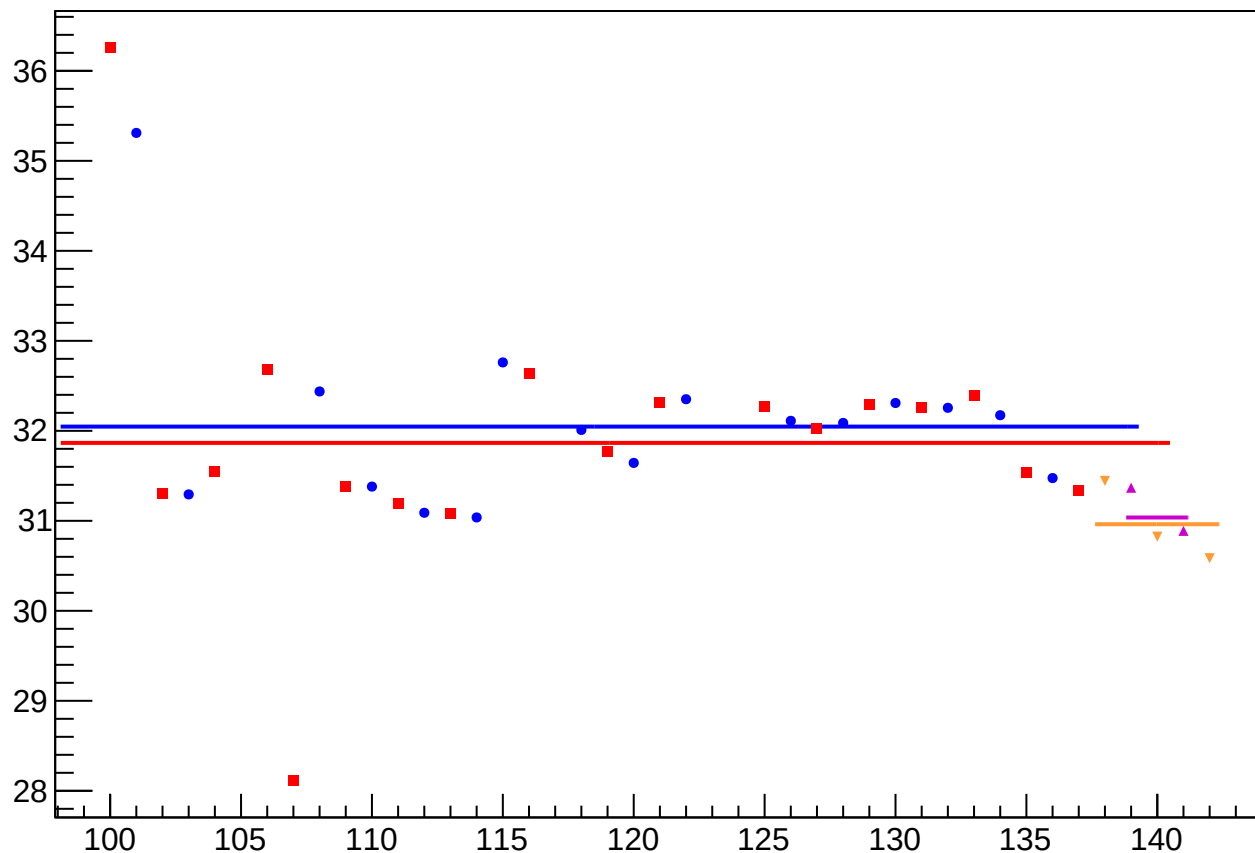
Out: -0.000+/-0.000 χ^2/NDF : 26.8/20

All: -0.000+/-0.000 χ^2/NDF : 37.5/38

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



yield_usl_mean vs Slug, Sign Corrected



Right In: 32.047 $\pm$ 0.000 χ^2 /NDF: 898593424.6/15

Left Out: 30.962 $\pm$ 0.000 χ^2 /NDF: 25946324.0/2

Right Out: 31.866 $\pm$ 0.000 χ^2 /NDF: 485941075.6/17

Left In: 31.037 $\pm$ 0.000 χ^2 /NDF: 8330094.3/1

Left: 30.995 $\pm$ 0.000 χ^2 /NDF: 34811323.5/4

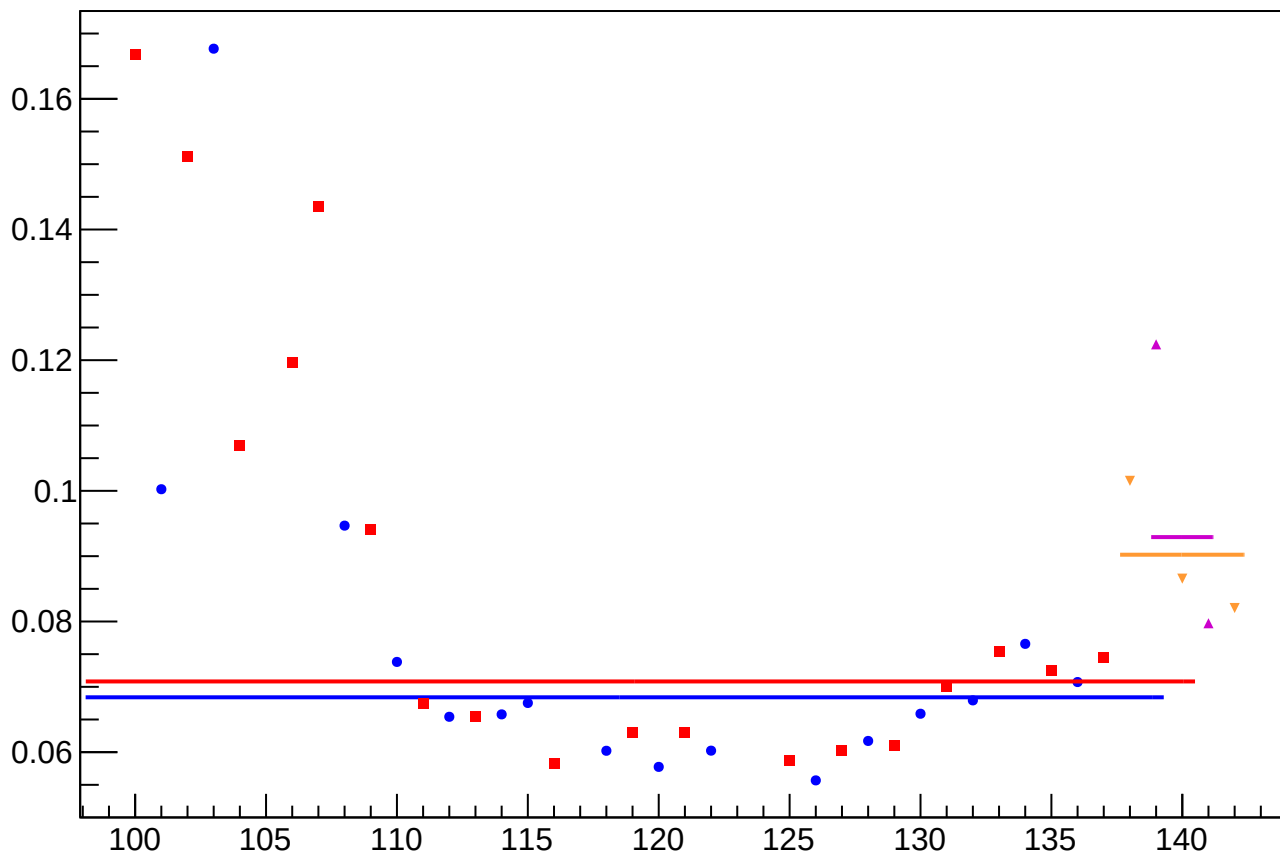
Right: 31.960 $\pm$ 0.000 χ^2 /NDF: 1405663241.1/33

In: 31.933 $\pm$ 0.000 χ^2 /NDF: 1060860702.6/17

Out: 31.730 $\pm$ 0.000 χ^2 /NDF: 664143891.7/20

All: 31.833 $\pm$ 0.000 χ^2 /NDF: 1755561691.1/3

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.068 $\pm$ 0.000 χ^2 /NDF: 703207.9/15

Left Out: 0.090 $\pm$ 0.000 χ^2 /NDF:27831.8/2

Right Out: 0.071 $\pm$ 0.000 χ^2 /NDF: 868237.4/17

Left In: 0.093 $\pm$ 0.000 χ^2 /NDF:132308.1/1

Left: 0.091 $\pm$ 0.000 χ^2 /NDF: 161534.0/4

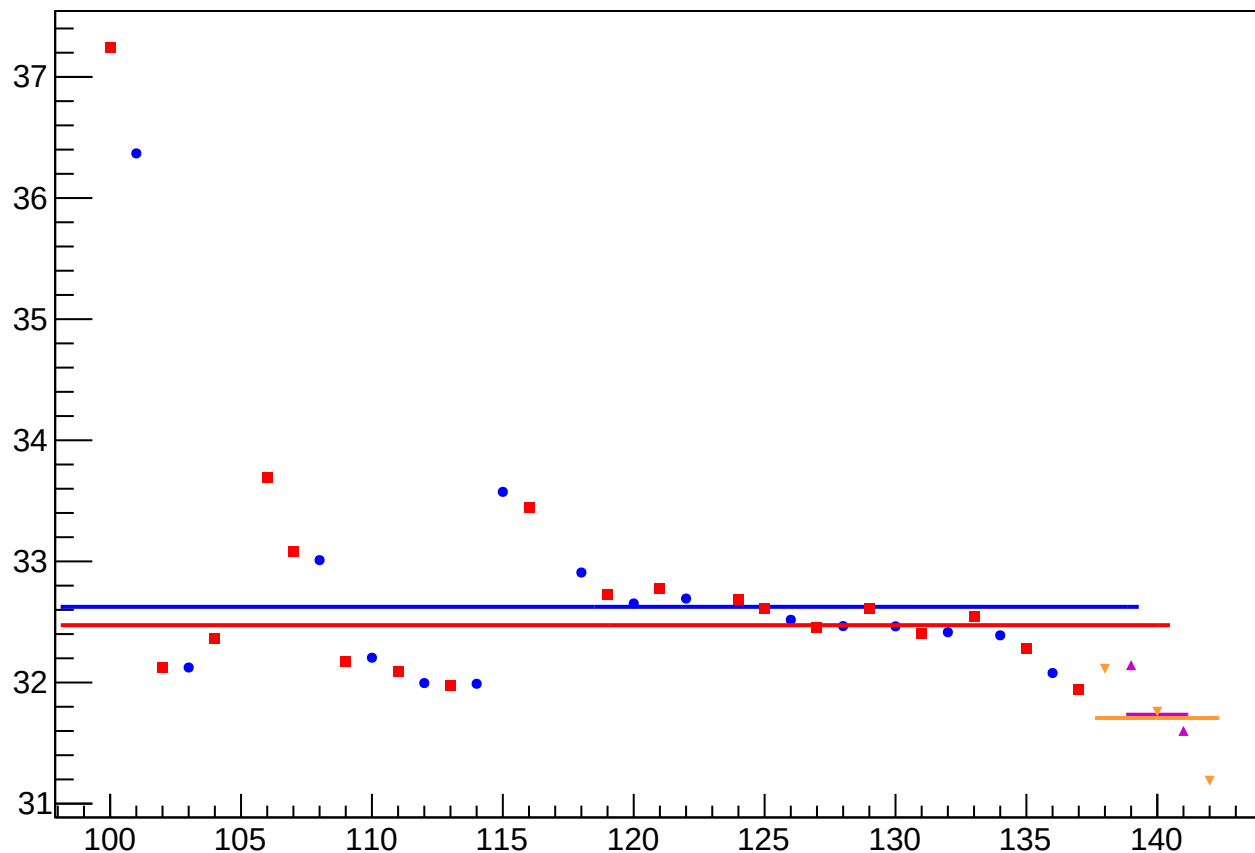
Right: 0.070 $\pm$ 0.000 χ^2 /NDF: 1579028.4/33

In: 0.071 $\pm$ 0.000 χ^2 /NDF:1016935.0/17

Out: 0.074 $\pm$ 0.000 χ^2 /NDF:1036350.2/20

All: 0.072 $\pm$ 0.000 χ^2 /NDF: 2063117.4/38

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.625 $\pm$ 0.000 χ^2 /NDF: 739141163.5/15

Left Out: 31.707 $\pm$ 0.000 χ^2 /NDF: 29861031.1/2

Right Out: 32.474 $\pm$ 0.000 χ^2 /NDF: 156801553.7/18

Left In: 31.734 $\pm$ 0.000 χ^2 /NDF: 10637073.9/1

Left: 31.719 $\pm$ 0.000 χ^2 /NDF: 40580249.3/4

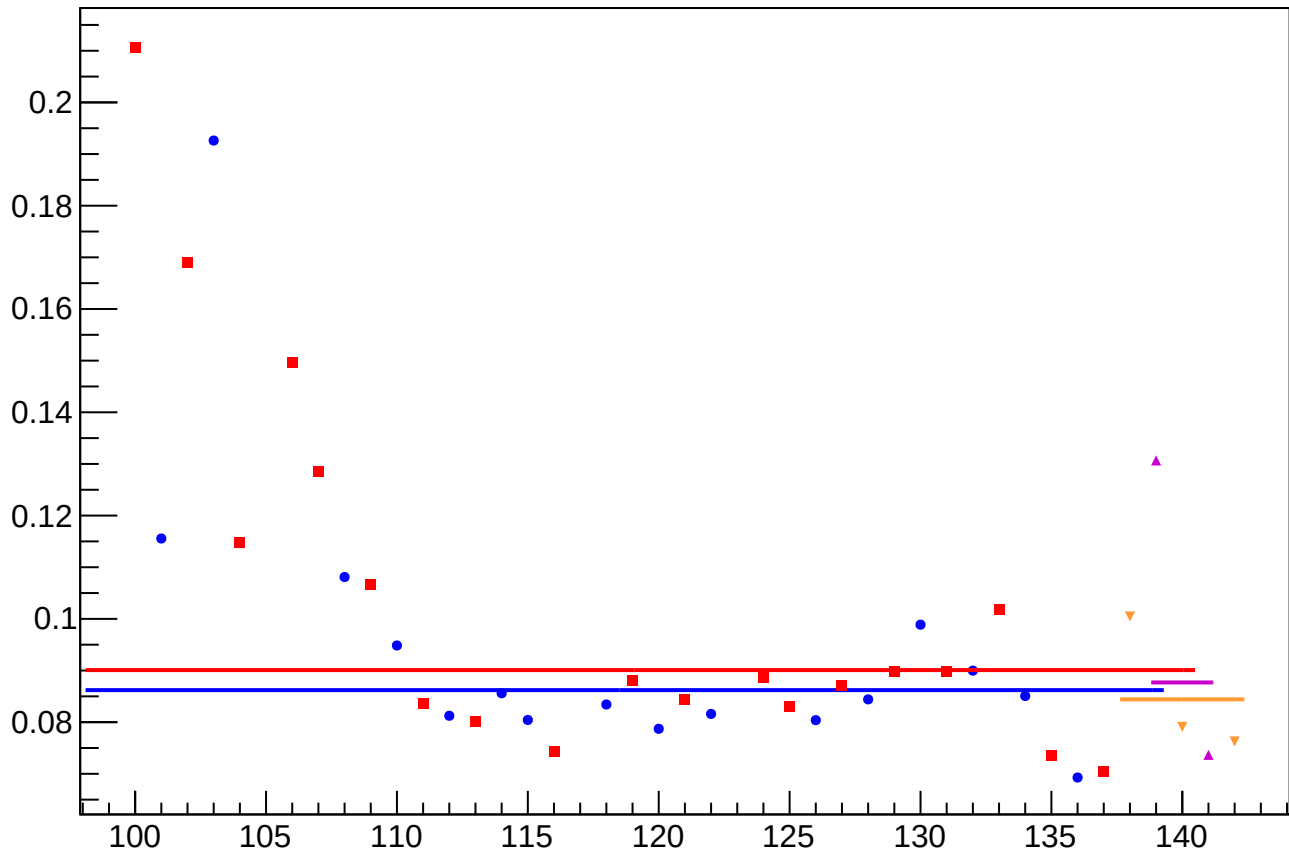
Right: 32.552 $\pm$ 0.000 χ^2 /NDF: 905331922.0/34

In: 32.458 $\pm$ 0.000 χ^2 /NDF: 875199461.0/17

Out: 32.291 $\pm$ 0.000 χ^2 /NDF: 297977755.2/21

All: 32.374 $\pm$ 0.000 χ^2 /NDF: 1187796997.2/3

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.086 ± 0.000 χ^2/NDF : 598718.4/15

Left Out: 0.084 ± 0.000 χ^2/NDF : 51633.2/2

Right Out: 0.090 ± 0.000 χ^2/NDF : 621848.1/18

Left In: 0.088 ± 0.000 χ^2/NDF : 234371.3/1

Left: 0.086 ± 0.000 χ^2/NDF : 288343.1/4

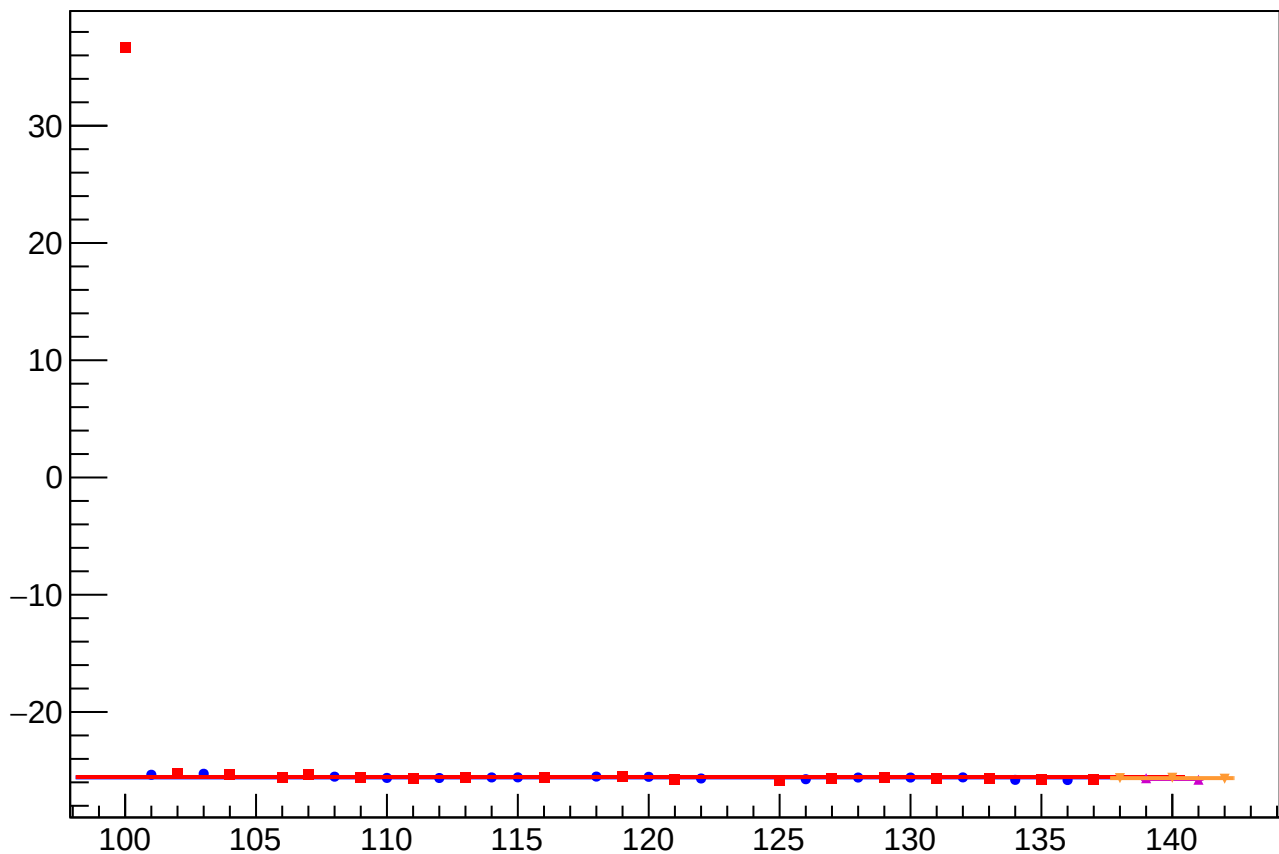
Right: 0.088 ± 0.000 χ^2/NDF : 1232875.9/34

In: 0.086 ± 0.000 χ^2/NDF : 833786.2/17

Out: 0.089 ± 0.000 χ^2/NDF : 685646.2/21

All: 0.088 ± 0.000 χ^2/NDF : 1524694.3/39

yield_dsl_mean vs Slug, Sign Corrected



Right In: -25.579+/-0.000 χ^2/NDF : 98389255.1/15

Left Out: -25.640+/-0.000 χ^2/NDF : 1004891.1/2

Right Out: -25.544+/-0.000 χ^2/NDF : 8907540506.8/17

Left In: -25.713+/-0.000 χ^2/NDF : 3534861.2/1

Left: -25.672+/-0.000 χ^2/NDF : 7058752.9/4

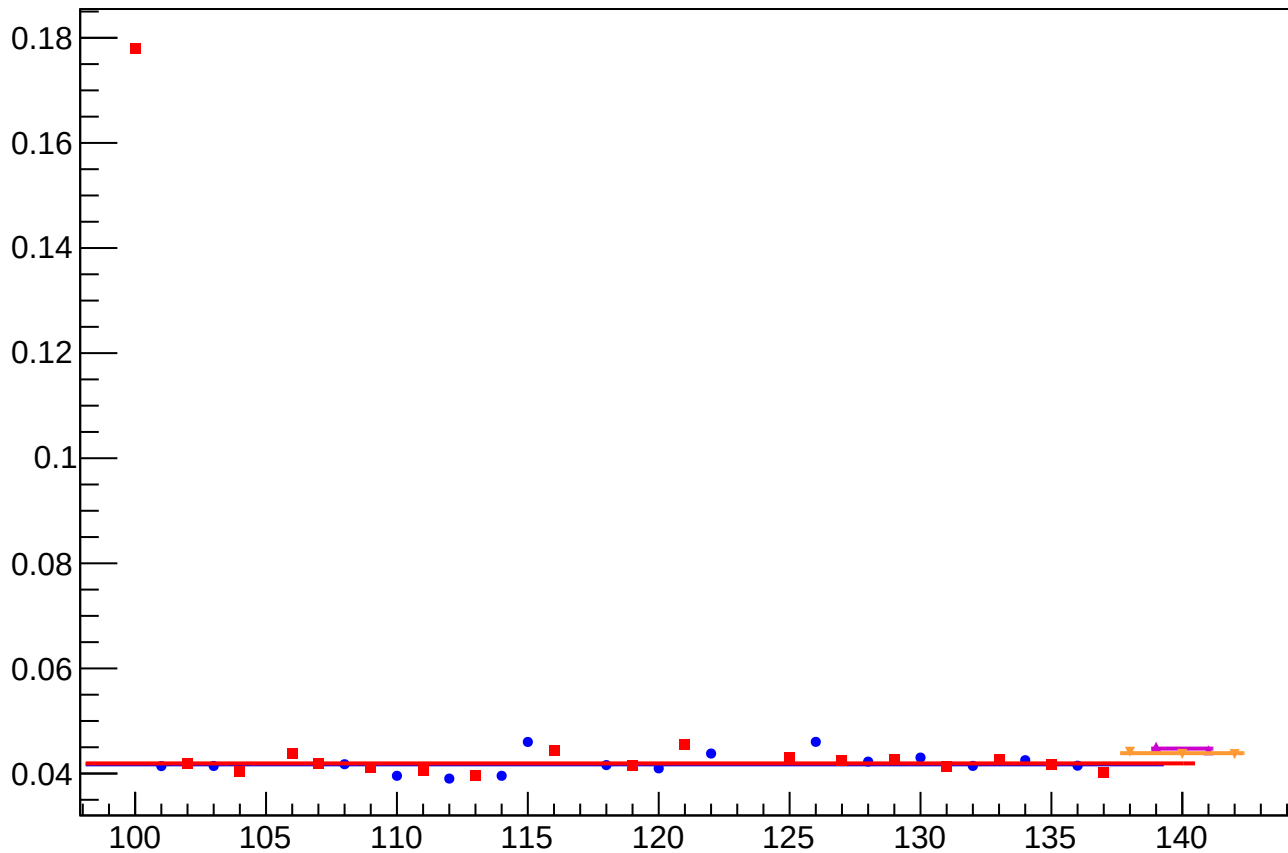
Right: -25.561+/-0.000 χ^2/NDF : 9008481743.9/33

In: -25.602+/-0.000 χ^2/NDF : 114509907.3/17

Out: -25.563+/-0.000 χ^2/NDF : 8916262159.8/20

All: -25.582+/-0.000 χ^2/NDF : 9034539118.6/37

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.042+/-0.000 χ^2/NDF : 20733.3/15

Left Out: 0.044+/-0.000 χ^2/NDF : 87.8/2

Right Out: 0.042+/-0.000 χ^2/NDF : 100140.4/17

Left In: 0.045+/-0.000 χ^2/NDF : 198.8/1

Left: 0.044+/-0.000 χ^2/NDF : 1004.7/4

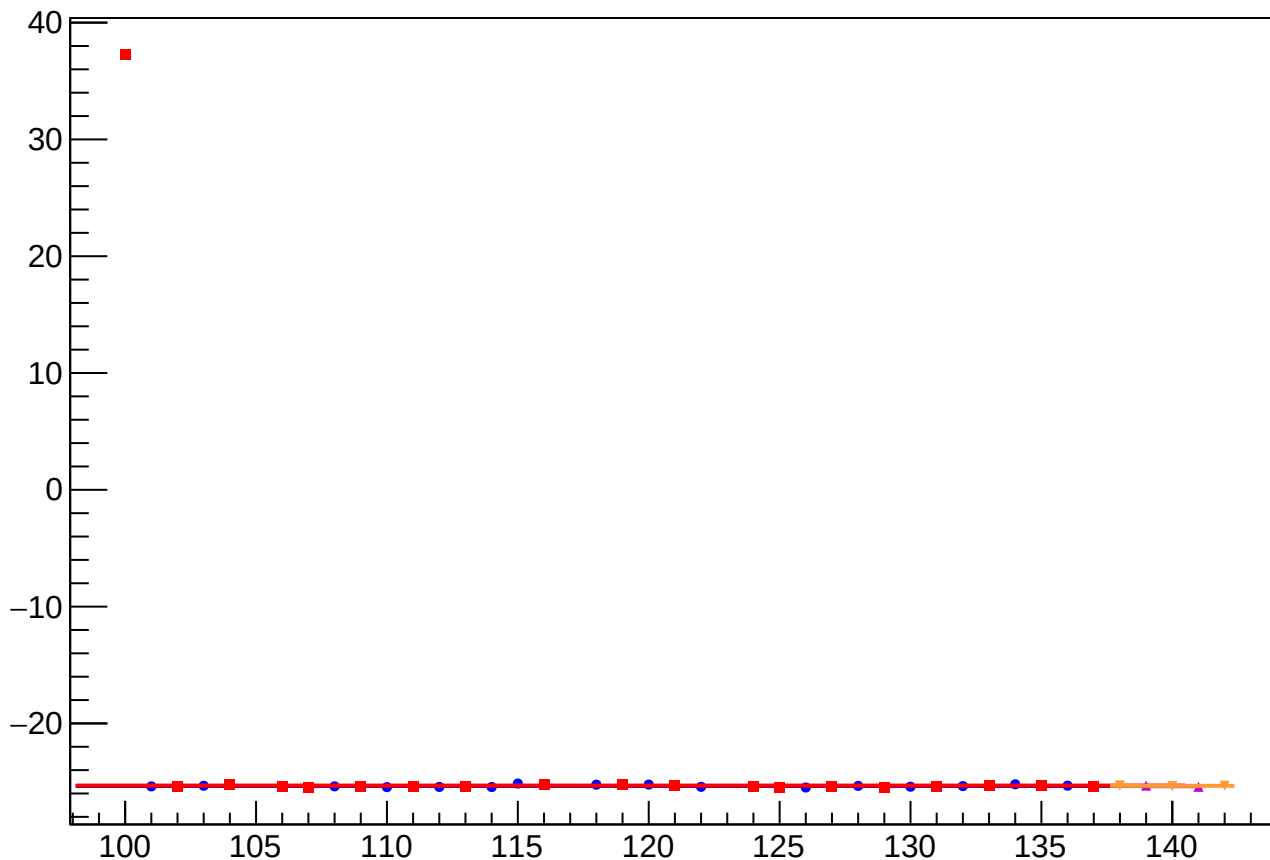
Right: 0.042+/-0.000 χ^2/NDF : 121007.1/33

In: 0.042+/-0.000 χ^2/NDF : 33623.8/17

Out: 0.042+/-0.000 χ^2/NDF : 106614.7/20

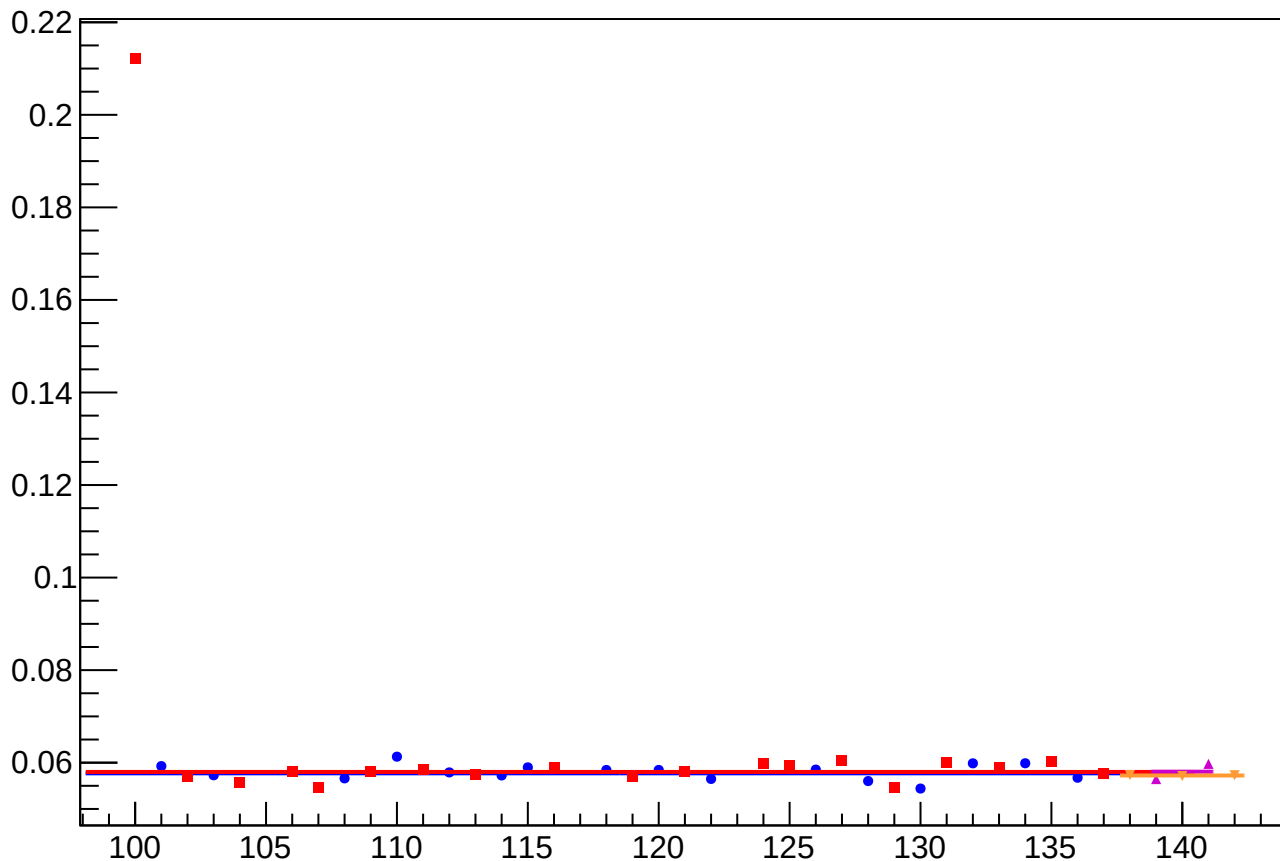
All: 0.042+/-0.000 χ^2/NDF : 140259.1/38

yield_dsr_mean vs Slug, Sign Corrected



Right In: -25.360+/-0.000	χ^2/NDF : 13284405.9/15	Left: -25.357+/-0.000	χ^2/NDF : 2025167.0/4
Left Out: -25.343+/-0.000	χ^2/NDF : 499866.7/2	Right: -25.341+/-0.000	χ^2/NDF : 6329738520.5/34
Right Out: -25.322+/-0.000	χ^2/NDF : 6314907036.5/18	In: -25.363+/-0.000	χ^2/NDF : 14620457.4/17
Left In: -25.374+/-0.000	χ^2/NDF : 1260403.8/1	Out: -25.327+/-0.000	χ^2/NDF : 6315611505.7/21
		All: -25.344+/-0.000	χ^2/NDF : 6331984125.8/

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.058+/-0.000 χ^2/NDF : 11763.6/15

Left Out: 0.057+/-0.000 χ^2/NDF :10.7/2

Right Out: 0.058+/-0.000 χ^2/NDF : 88682.9/18

Left In: 0.058+/-0.000 χ^2/NDF :2665.7/1

Left: 0.058+/-0.000 χ^2/NDF : 3039.8/4

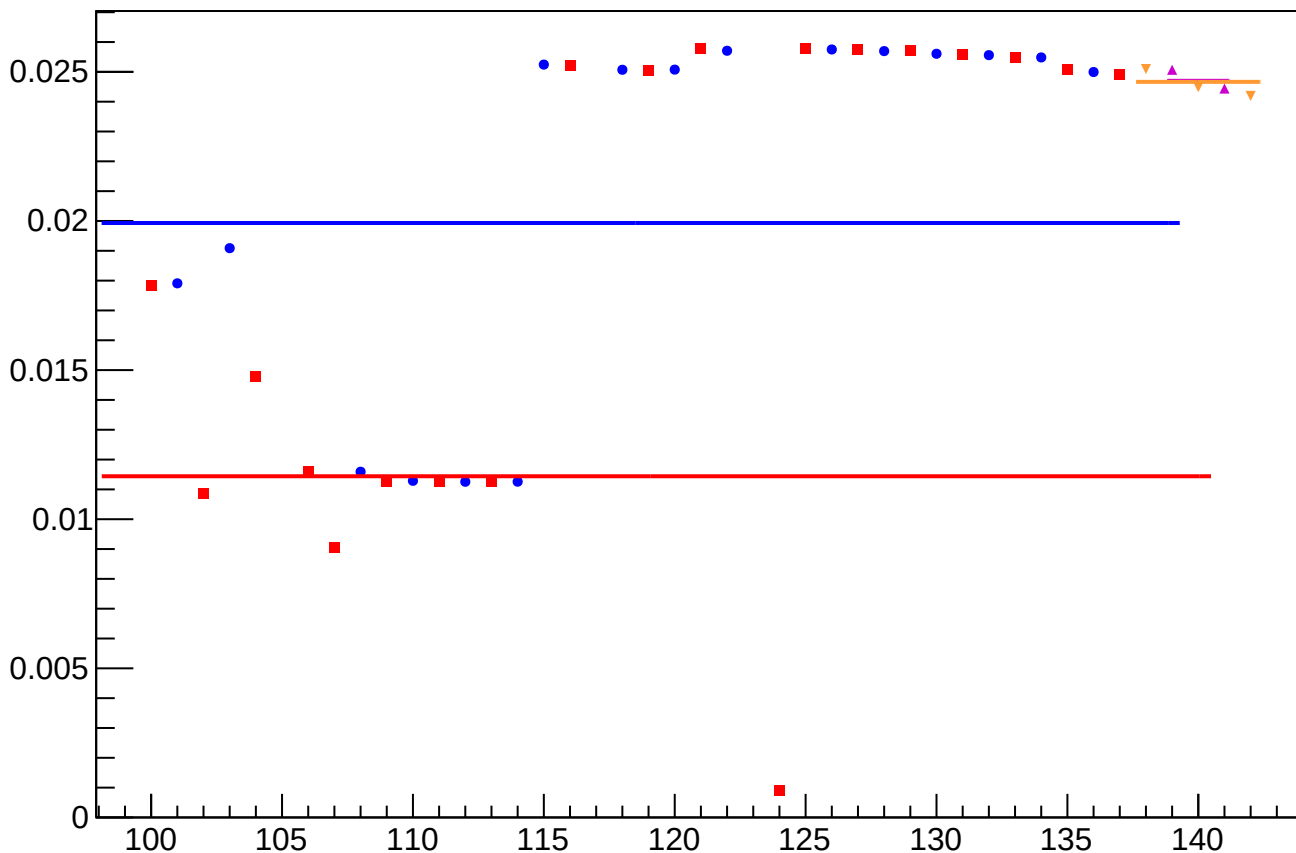
Right: 0.058+/-0.000 χ^2/NDF : 100633.0/34

In: 0.058+/-0.000 χ^2/NDF :14525.2/17

Out: 0.058+/-0.000 χ^2/NDF :89250.7/21

All: 0.058+/-0.000 χ^2/NDF : 103786.0/39

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 62465154056.0/15

Left Out: 0.025+/-0.000 χ^2/NDF : 40471968.0/2

Right Out: 0.011+/-0.000 χ^2/NDF : 253880264851.8/18

Left In: 0.025+/-0.000 χ^2/NDF : 24524695.0/1

Left: 0.025+/-0.000 χ^2/NDF : 65165089.4/4

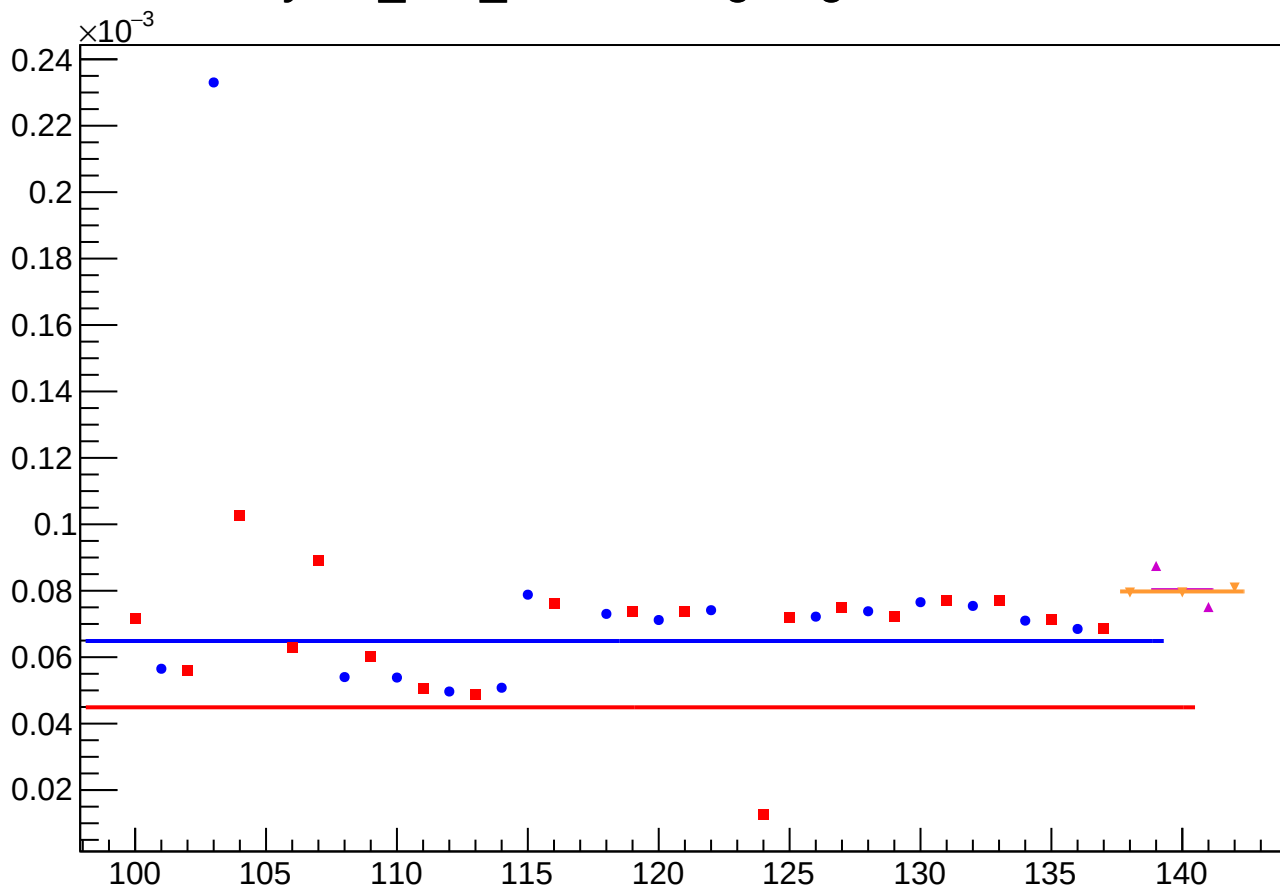
Right: 0.015+/-0.000 χ^2/NDF : 385775066677.0/34

In: 0.021+/-0.000 χ^2/NDF : 67477323473.4/17

Out: 0.013+/-0.000 χ^2/NDF : 301668605312.9/21

All: 0.016+/-0.000 χ^2/NDF : 435189153855.1

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000 +/- 0.000 χ^2/NDF : 816892.1/15

Left Out: 0.000 +/- 0.000 χ^2/NDF : 222.5/2

Right Out: 0.000 +/- 0.000 χ^2/NDF : 3770565.9/18

Left In: 0.000 +/- 0.000 χ^2/NDF : 18919.7/1

Left: 0.000 +/- 0.000 χ^2/NDF : 19187.2/4

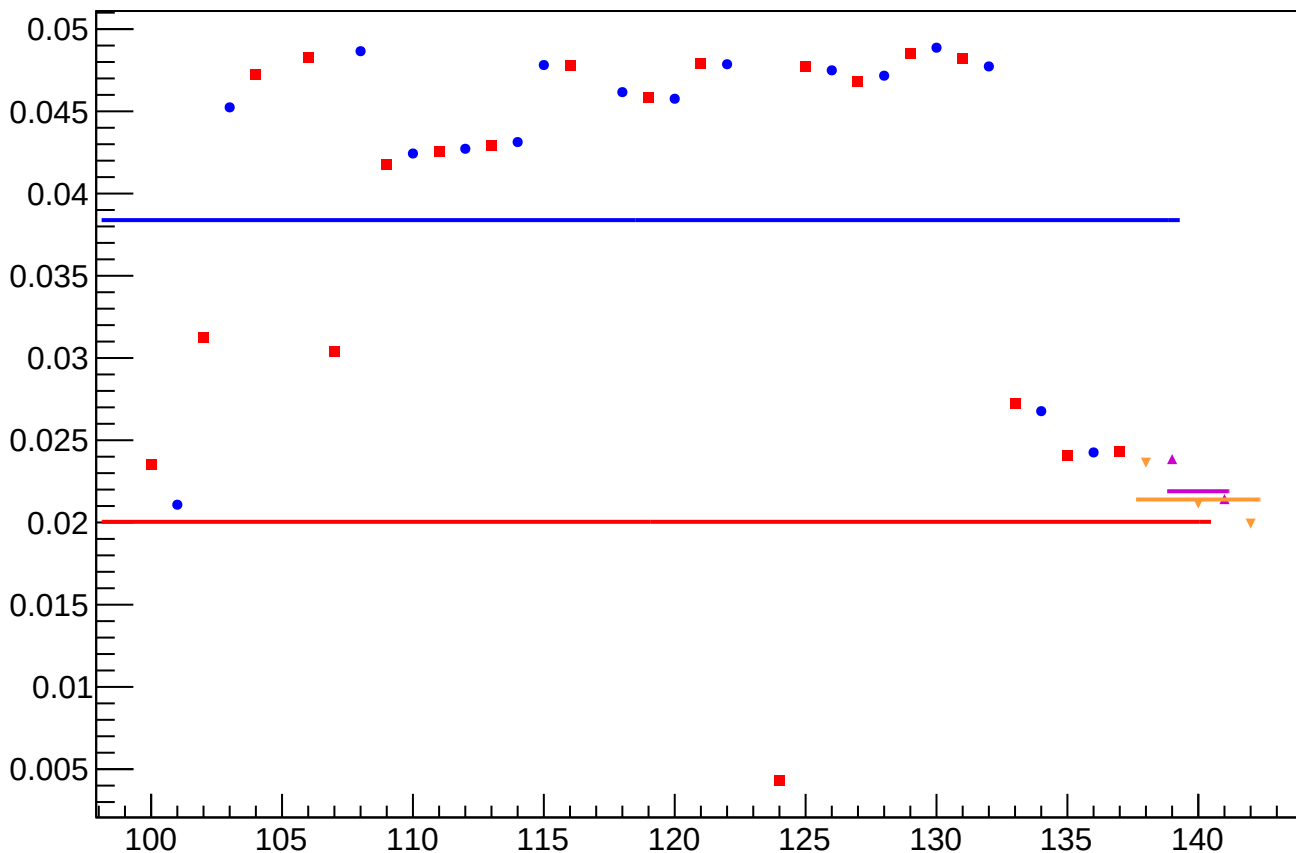
Right: 0.000 +/- 0.000 χ^2/NDF : 5354969.6/34

In: 0.000 +/- 0.000 χ^2/NDF : 938785.0/17

Out: 0.000 +/- 0.000 χ^2/NDF : 4435092.6/21

All: 0.000 +/- 0.000 χ^2/NDF : 6117582.0/39

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.038+/-0.000

χ^2/NDF : 7078619233.3/15

Left: 0.022+/-0.000 χ^2/NDF : 62233108.5/4

Right: 0.026+/-0.000 χ^2/NDF : 62680347103.1/34

Left Out: 0.021+/-0.000

χ^2/NDF : 45045107.2/2

In: 0.035+/-0.000 χ^2/NDF : 10491655187.5/17

Right Out: 0.020+/-0.000

χ^2/NDF : 42185025429.6/18

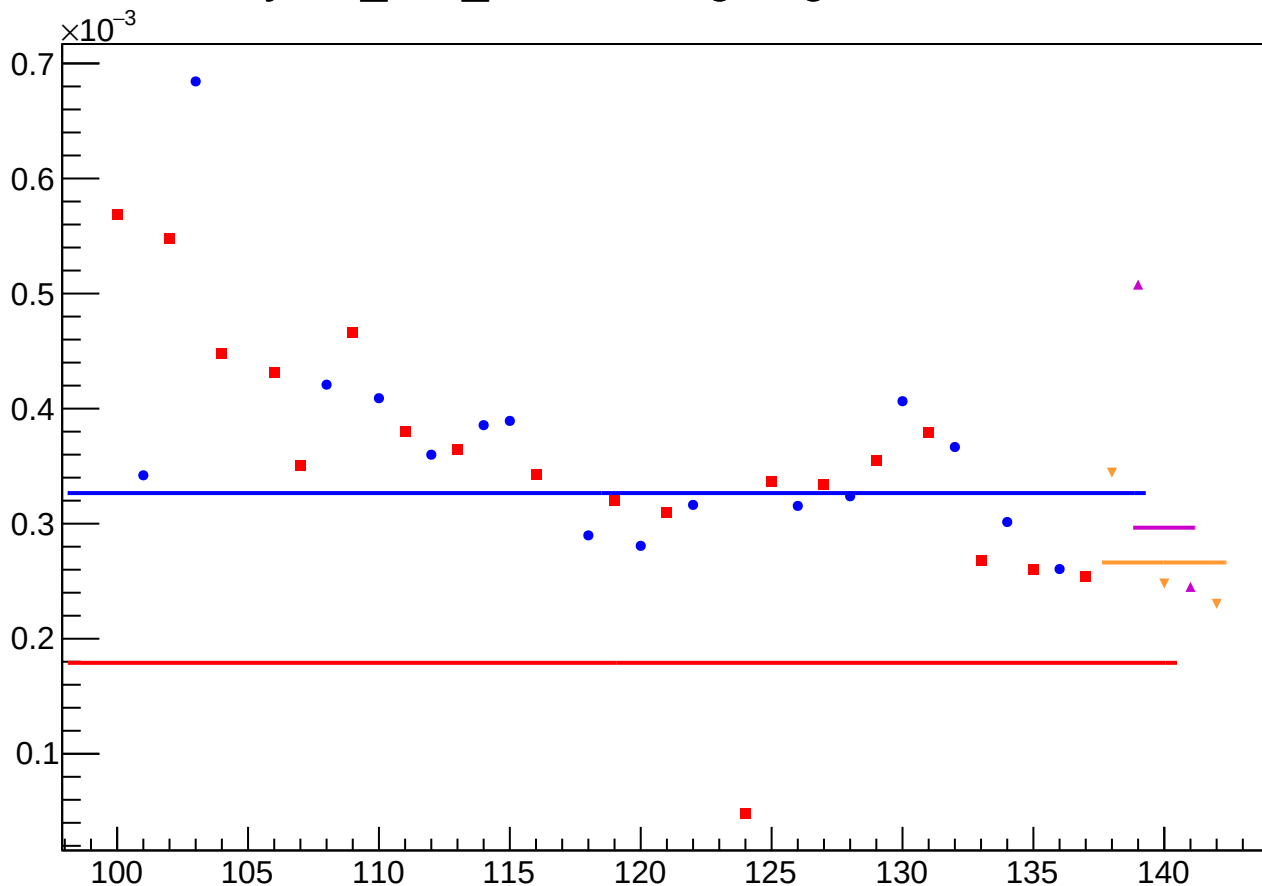
Out: 0.020+/-0.000 χ^2/NDF : 42266777429.3/21

Left In: 0.022+/-0.000

χ^2/NDF : 14768641.0/1

All: 0.025+/-0.000 χ^2/NDF : 63384002113.4/3

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 581428.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 96637.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 5660786.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 344618.3/1

Left: 0.000+/-0.000 χ^2/NDF : 458708.7/4

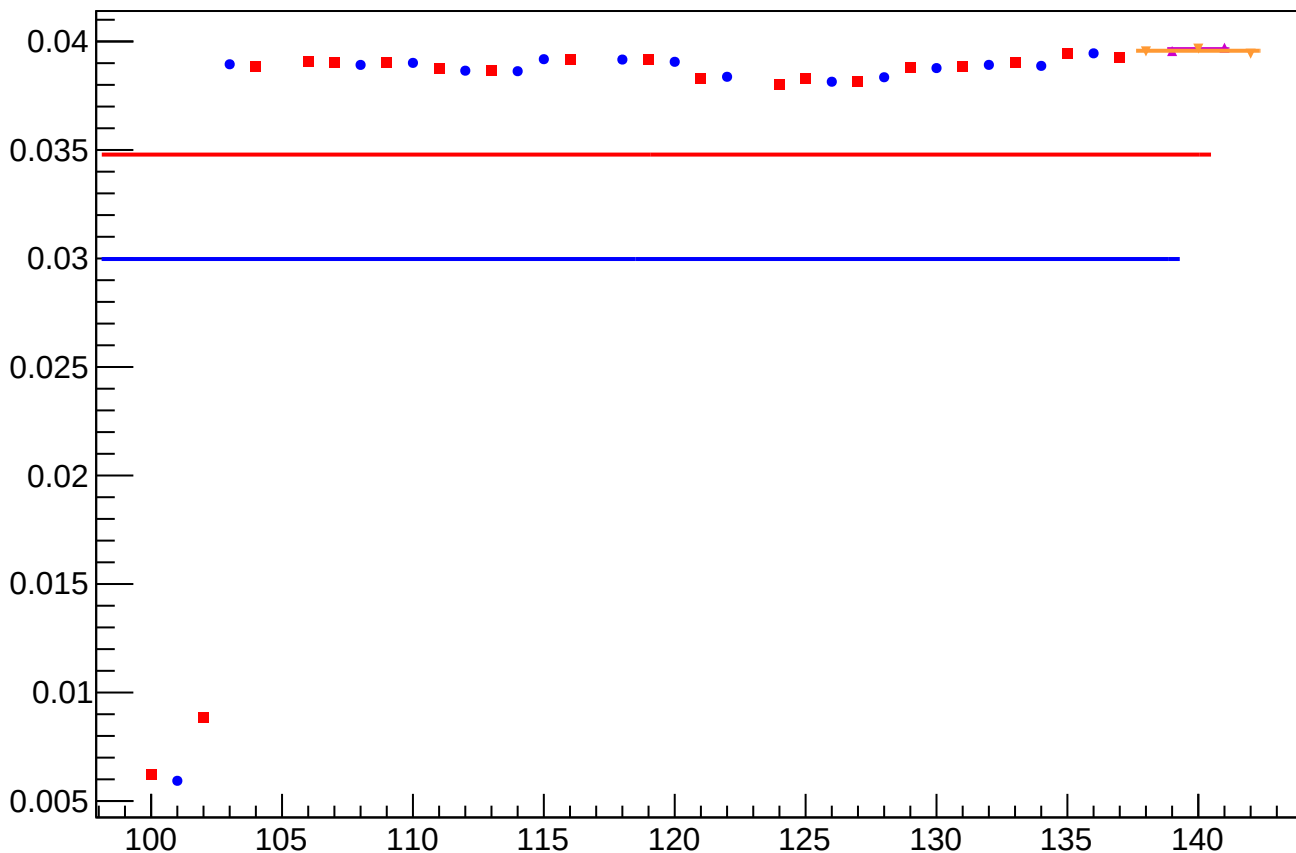
Right: 0.000+/-0.000 χ^2/NDF : 7977614.8/34

In: 0.000+/-0.000 χ^2/NDF : 948641.9/17

Out: 0.000+/-0.000 χ^2/NDF : 6061411.9/21

All: 0.000+/-0.000 χ^2/NDF : 8606511.1/39

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000

χ^2/NDF : 108275706275.7/15

Left: 0.040+/-0.000

χ^2/NDF : 1433198.5/4

Left Out: 0.040+/-0.000

χ^2/NDF : 776095.4/2

Right: 0.032+/-0.000

χ^2/NDF : 161037517780.6/34

Right Out: 0.035+/-0.000

χ^2/NDF : 47263545471.6/18

In: 0.031+/-0.000

χ^2/NDF : 114207906578.0/17

Out: 0.036+/-0.000

χ^2/NDF : 49020459907.7/21

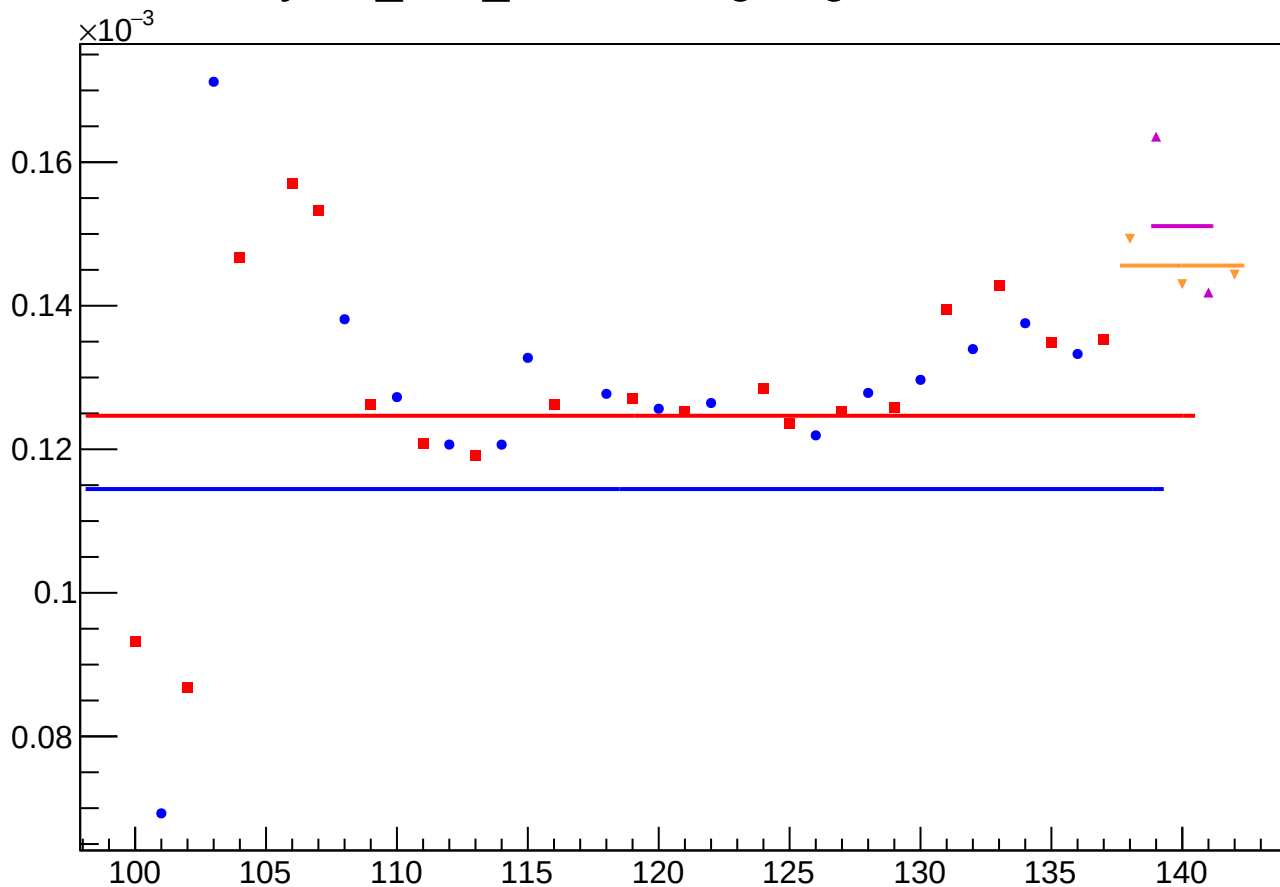
Left In: 0.040+/-0.000

χ^2/NDF : 425389.9/1

All: 0.033+/-0.000

χ^2/NDF : 168700865004.6

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 853142.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :1526.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 260393.6/18

Left In: 0.000+/-0.000 χ^2/NDF :16712.4/1

Left: 0.000+/-0.000 χ^2/NDF : 20697.0/4

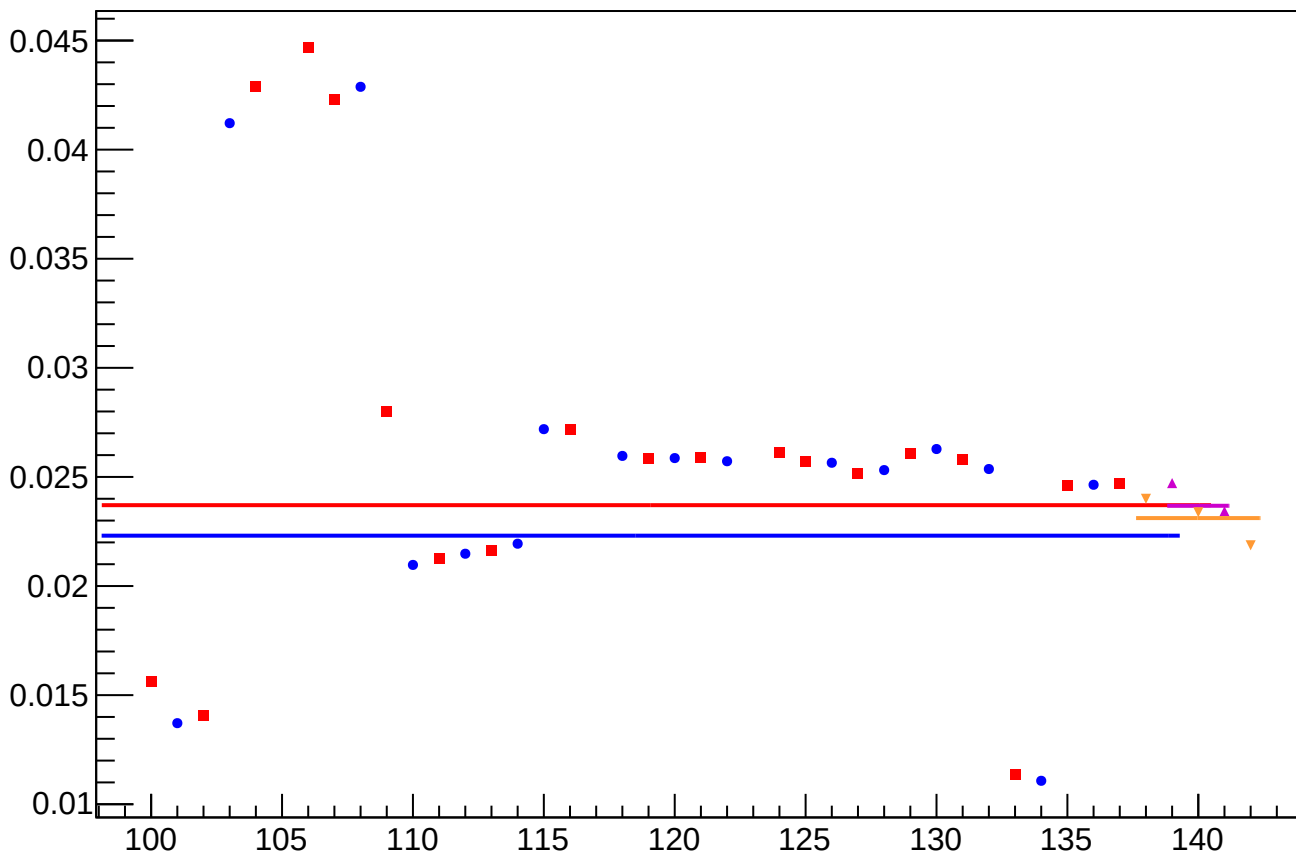
Right: 0.000+/-0.000 χ^2/NDF : 1163063.5/34

In: 0.000+/-0.000 χ^2/NDF :1040044.2/17

Out: 0.000+/-0.000 χ^2/NDF :329089.4/21

All: 0.000+/-0.000 χ^2/NDF : 1416755.0/39

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.000 χ^2 /NDF: 5012486114.6/15

Left Out: 0.023 $\pm$ 0.000 χ^2 /NDF:18003212.5/2

Right Out: 0.024 $\pm$ 0.000 χ^2 /NDF: 5581865088.7/18

Left In: 0.024 $\pm$ 0.000 χ^2 /NDF:4635774.1/1

Left: 0.023 $\pm$ 0.000 χ^2 /NDF: 26051111.6/4

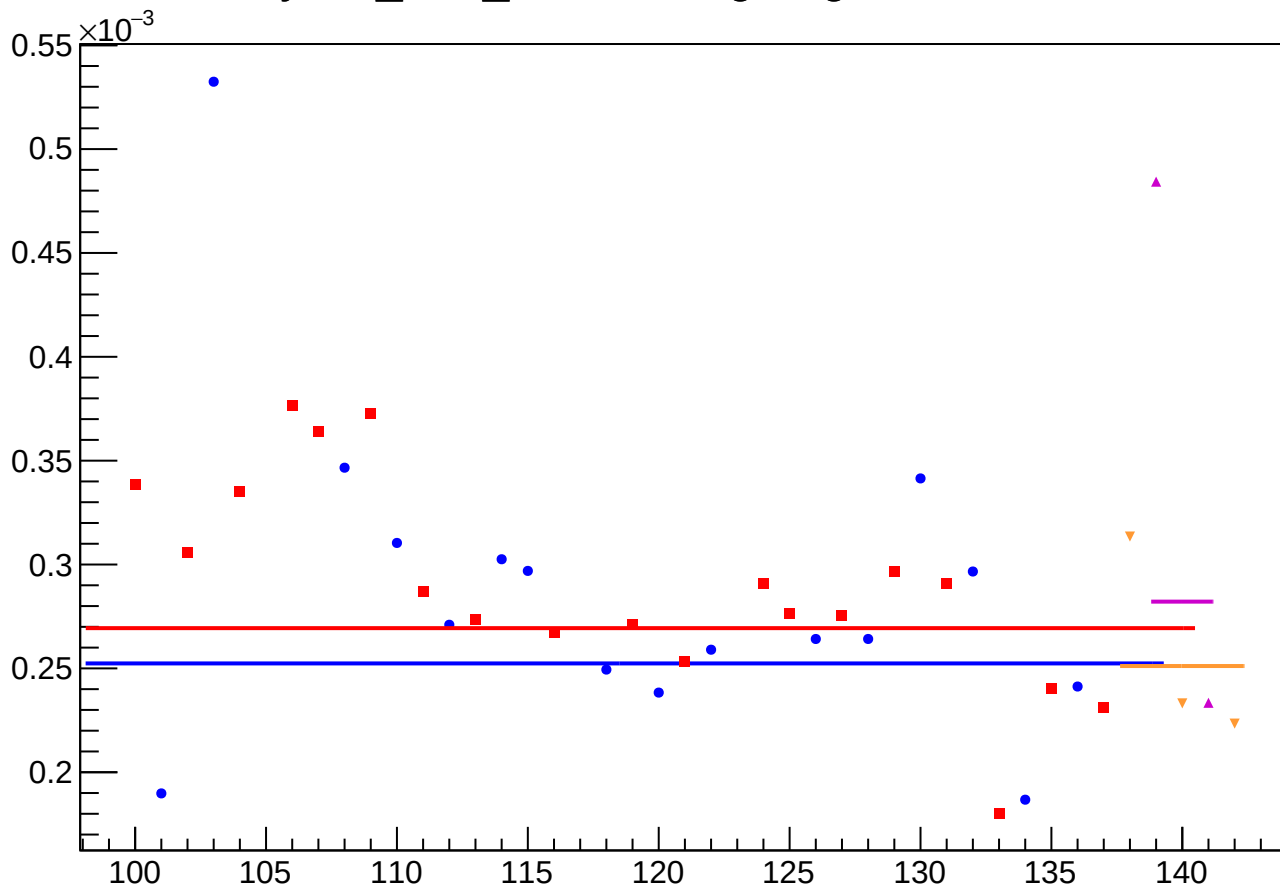
Right: 0.023 $\pm$ 0.000 χ^2 /NDF: 10685664717.3/34

In: 0.023 $\pm$ 0.000 χ^2 /NDF:5045461296.2/17

Out: 0.024 $\pm$ 0.000 χ^2 /NDF:5607088408.1/21

All: 0.023 $\pm$ 0.000 χ^2 /NDF: 10716545151.9/3

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 707863.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 73318.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 446359.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 350994.4/1

Left: 0.000+/-0.000 χ^2/NDF : 444898.1/4

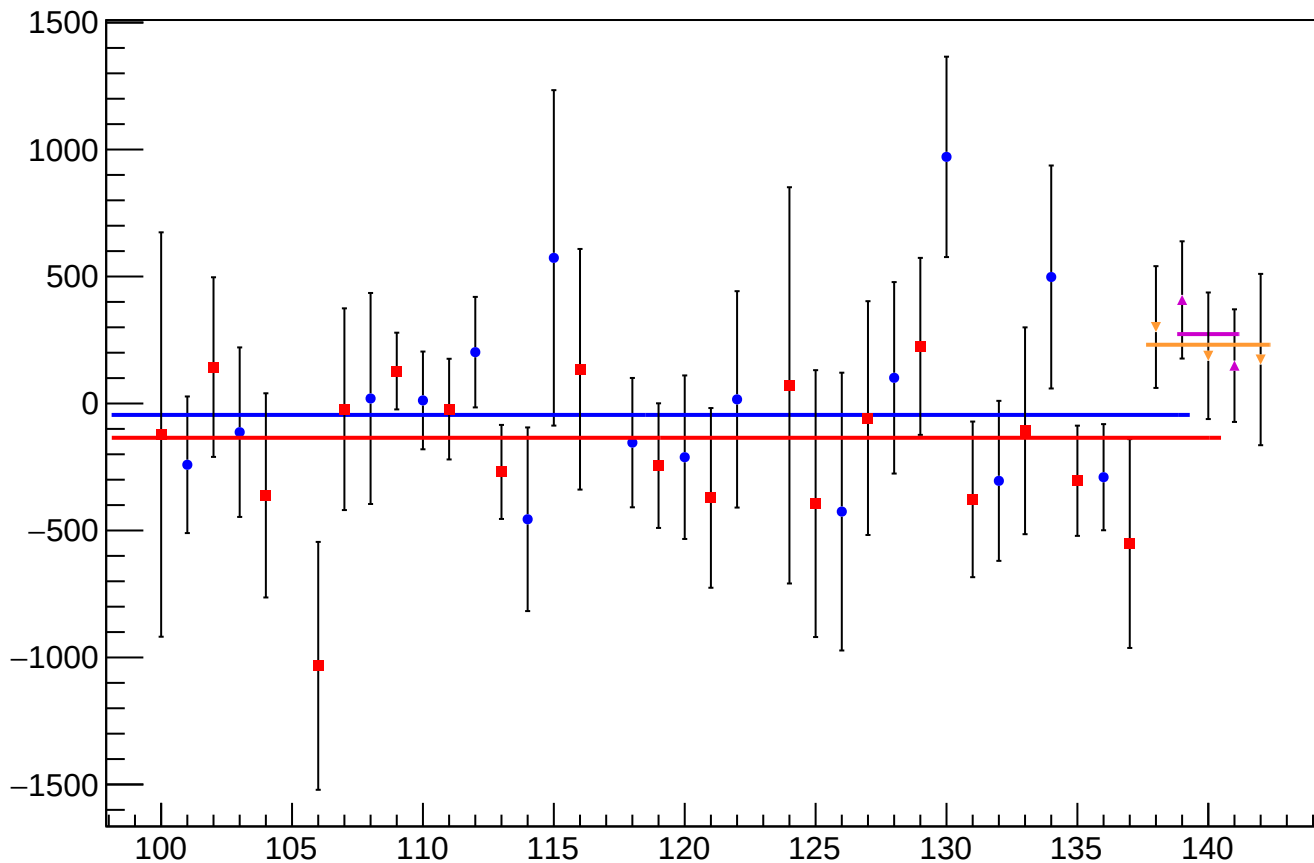
Right: 0.000+/-0.000 χ^2/NDF : 1181187.1/34

In: 0.000+/-0.000 χ^2/NDF : 1085559.5/17

Out: 0.000+/-0.000 χ^2/NDF : 533397.5/21

All: 0.000+/-0.000 χ^2/NDF : 1626751.1/39

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -44.917 ± 76.198 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 231.376 ± 153.761 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -134.996 ± 68.062 $\chi^2/\text{NDF}: 12.9/18$

Left In: 273.267 ± 159.901 $\chi^2/\text{NDF}: 0.7/1$

Left: 251.502 ± 110.833 $\chi^2/\text{NDF}: 0.8/4$

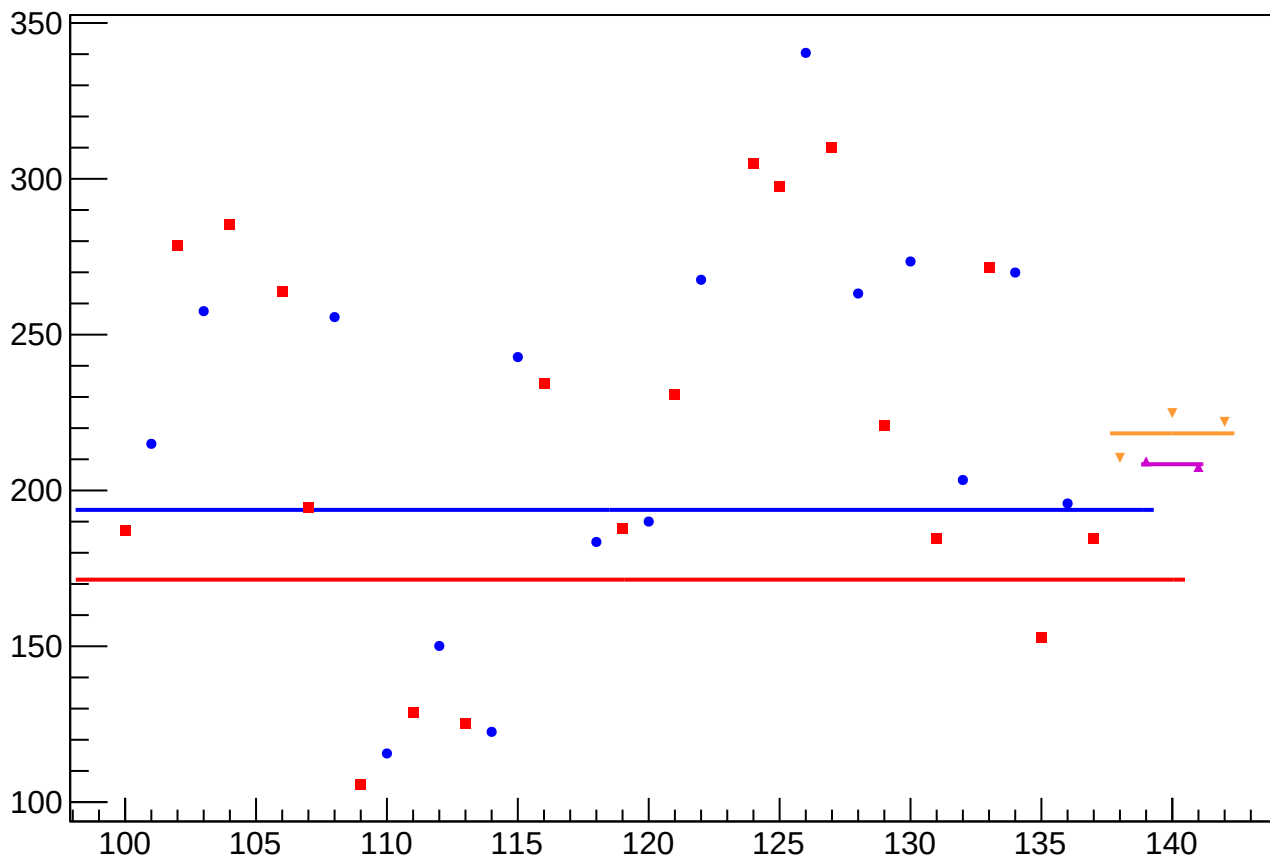
Right: -95.021 ± 50.761 $\chi^2/\text{NDF}: 29.2/34$

In: 13.966 ± 68.787 $\chi^2/\text{NDF}: 19.3/17$

Out: -74.972 ± 62.237 $\chi^2/\text{NDF}: 17.8/21$

All: -34.938 ± 46.151 $\chi^2/\text{NDF}: 38.1/39$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.768 $\pm$ 0.054 χ^2 /NDF: 1048095.1/15

Left Out: 218.316 $\pm$ 0.109 χ^2 /NDF:3752.7/2

Right Out: 171.382 $\pm$ 0.048 χ^2 /NDF: 1658079.5/18

Left In: 208.414 $\pm$ 0.113 χ^2 /NDF:64.8/1

Left: 213.559 $\pm$ 0.078 χ^2 /NDF: 7801.9/4

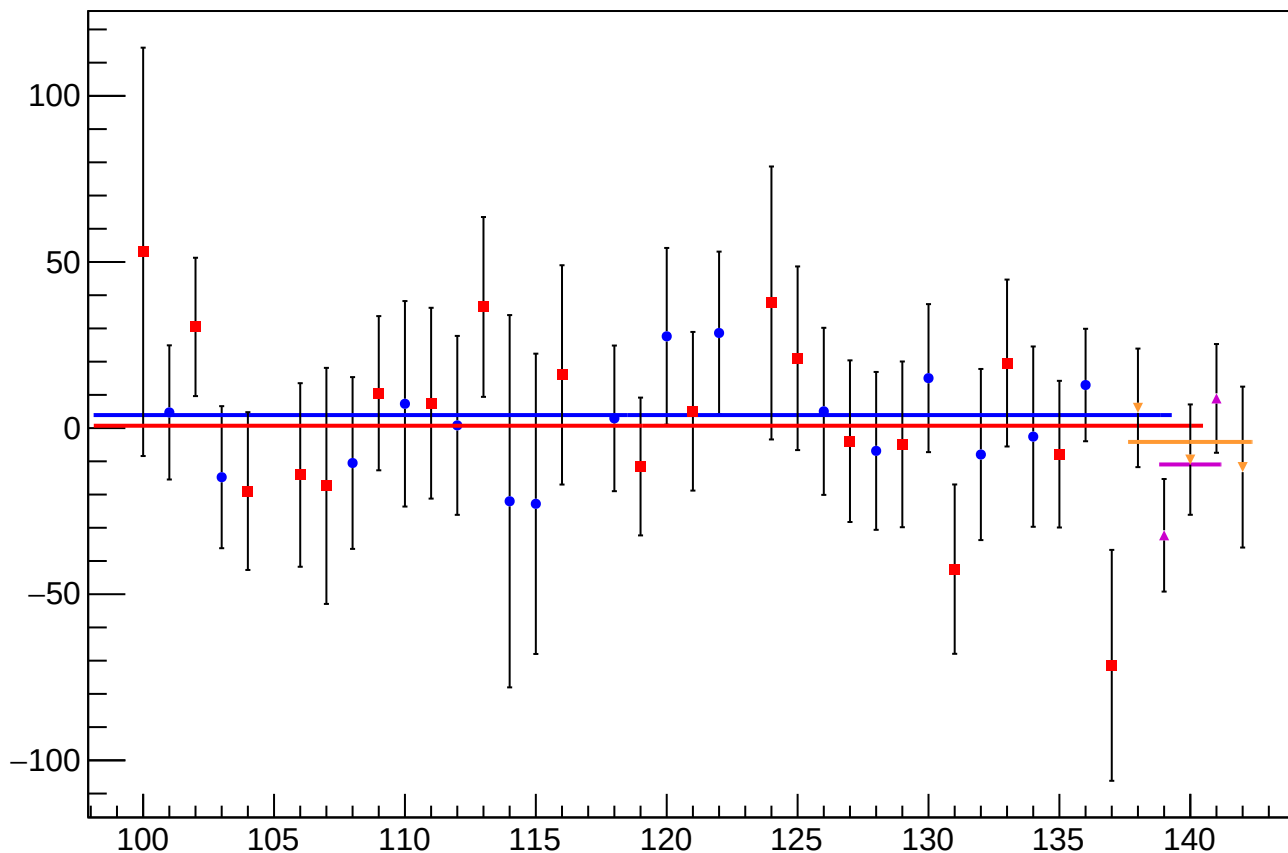
Right: 181.316 $\pm$ 0.036 χ^2 /NDF: 2802189.0/34

In: 196.478 $\pm$ 0.049 χ^2 /NDF:1061834.7/17

Out: 179.071 $\pm$ 0.044 χ^2 /NDF:1817642.9/21

All: 186.907 $\pm$ 0.033 χ^2 /NDF: 2949901.3/39

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.923 ± 6.172 $\chi^2/\text{NDF}: 4.5/15$

Left Out: -4.159 ± 10.865 $\chi^2/\text{NDF}: 0.5/2$

Right Out: 0.714 ± 6.077 $\chi^2/\text{NDF}: 15.9/18$

Left In: -10.943 ± 11.772 $\chi^2/\text{NDF}: 3.1/1$

Left: -7.280 ± 7.984 $\chi^2/\text{NDF}: 3.8/4$

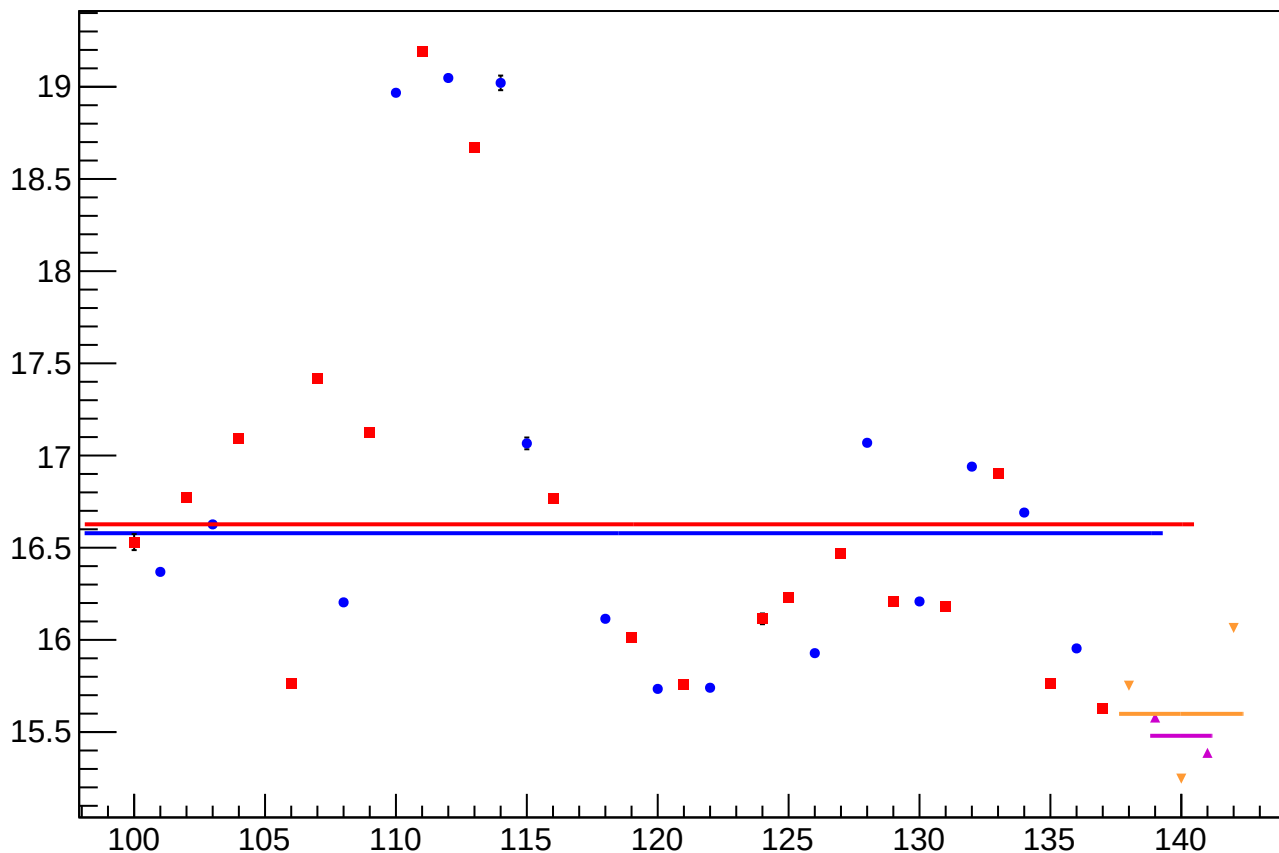
Right: 2.294 ± 4.330 $\chi^2/\text{NDF}: 20.5/34$

In: 0.718 ± 5.466 $\chi^2/\text{NDF}: 8.8/17$

Out: -0.447 ± 5.304 $\chi^2/\text{NDF}: 16.6/21$

All: 0.118 ± 3.806 $\chi^2/\text{NDF}: 25.4/39$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.579 $\pm$ 0.004 χ^2 /NDF: 44575.6/15

Left Out: 15.599 $\pm$ 0.008 χ^2 /NDF:1781.1/2

Right Out: 16.627 $\pm$ 0.004 χ^2 /NDF: 43461.8/18

Left In: 15.480 $\pm$ 0.008 χ^2 /NDF:132.3/1

Left: 15.544 $\pm$ 0.006 χ^2 /NDF: 2023.7/4

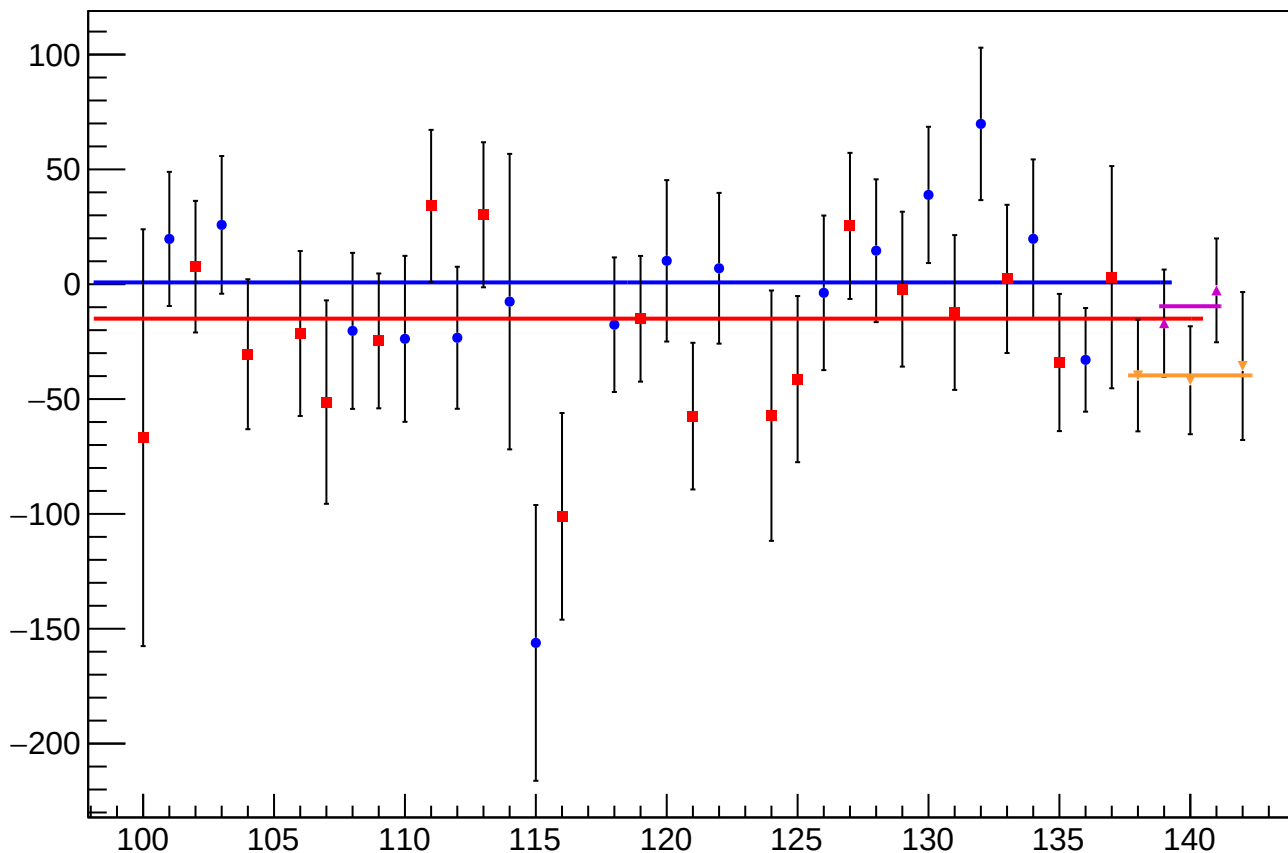
Right: 16.603 $\pm$ 0.003 χ^2 /NDF: 88099.6/34

In: 16.342 $\pm$ 0.004 χ^2 /NDF:58376.0/17

Out: 16.382 $\pm$ 0.004 χ^2 /NDF:58882.3/21

All: 16.362 $\pm$ 0.003 χ^2 /NDF: 117314.1/39

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.790 ± 8.125 $\chi^2/\text{NDF}: 18.7/15$

Left Out: -39.686 ± 14.963 $\chi^2/\text{NDF}: 0.0/2$

Right Out: -14.981 ± 7.953 $\chi^2/\text{NDF}: 15.4/18$

Left In: -9.583 ± 16.231 $\chi^2/\text{NDF}: 0.2/1$

Left: -25.856 ± 11.001 $\chi^2/\text{NDF}: 2.1/4$

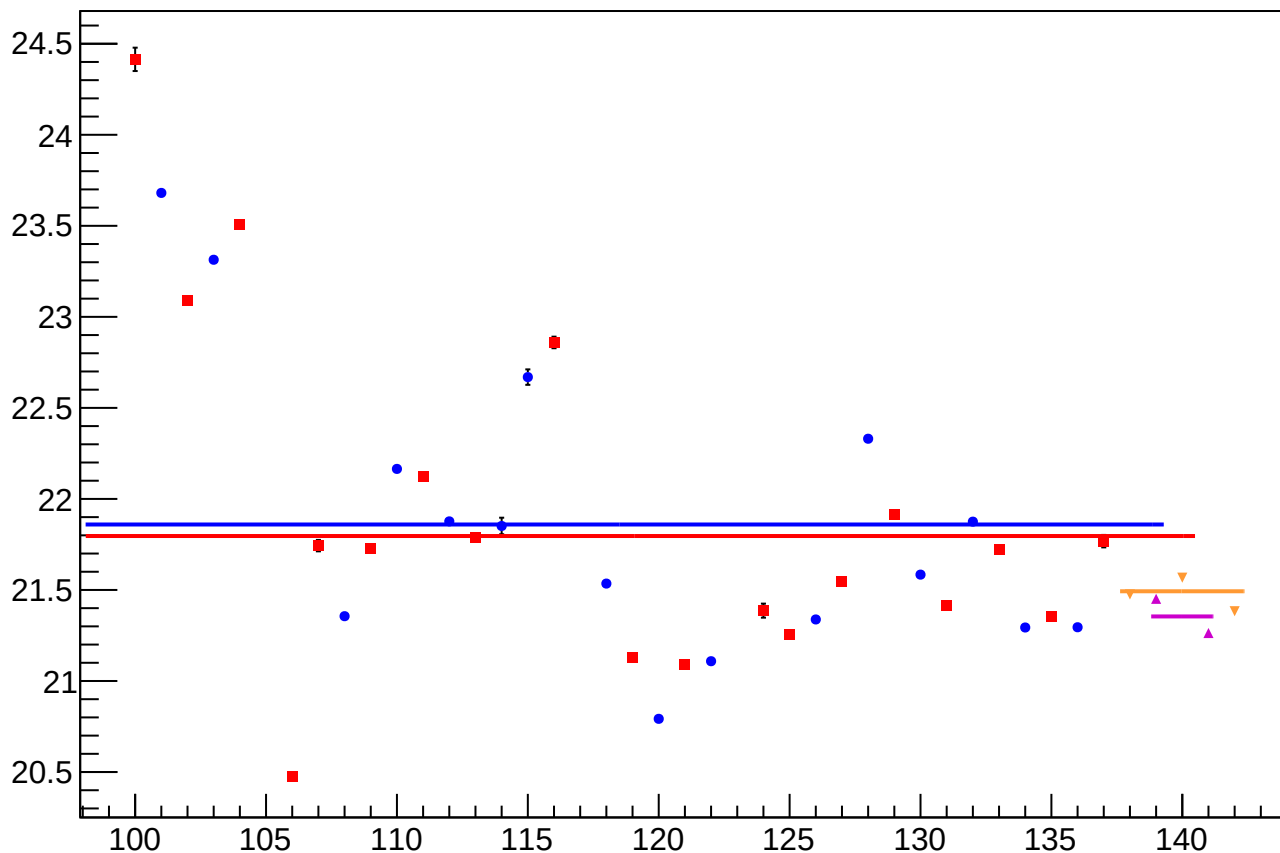
Right: -7.264 ± 5.683 $\chi^2/\text{NDF}: 36.0/34$

In: -1.289 ± 7.265 $\chi^2/\text{NDF}: 19.2/17$

Out: -20.423 ± 7.023 $\chi^2/\text{NDF}: 17.5/21$

All: -11.180 ± 5.049 $\chi^2/\text{NDF}: 40.3/39$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.860 $\pm$ 0.006 χ^2 /NDF: 19468.1/15

Left Out: 21.493 $\pm$ 0.011 χ^2 /NDF:44.4/2

Right Out: 21.796 $\pm$ 0.006 χ^2 /NDF: 18861.3/18

Left In: 21.355 $\pm$ 0.011 χ^2 /NDF:66.9/1

Left: 21.429 $\pm$ 0.008 χ^2 /NDF: 189.8/4

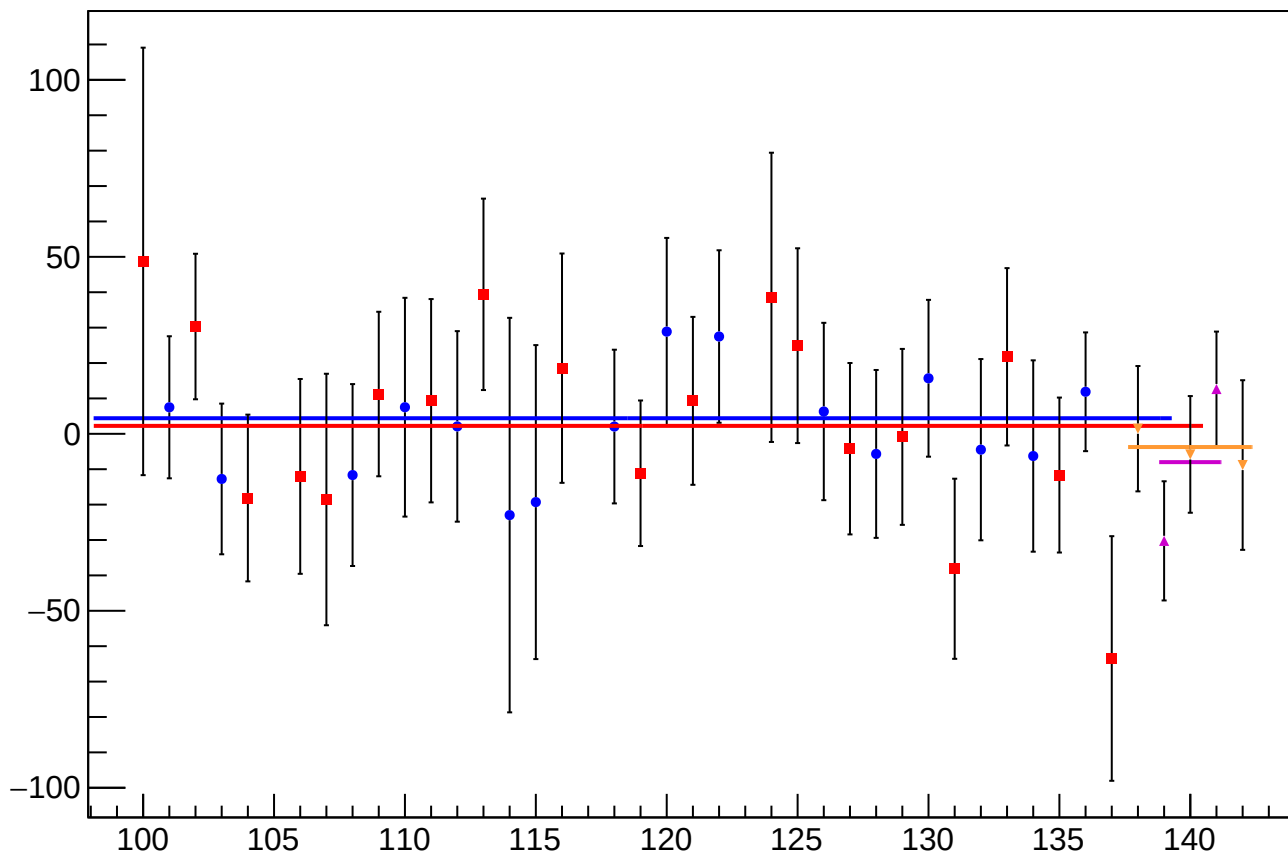
Right: 21.827 $\pm$ 0.004 χ^2 /NDF: 38391.5/34

In: 21.758 $\pm$ 0.005 χ^2 /NDF:21083.2/17

Out: 21.729 $\pm$ 0.005 χ^2 /NDF:19547.2/21

All: 21.743 $\pm$ 0.004 χ^2 /NDF: 40646.8/39

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.404+/-6.137 χ^2/NDF : 4.3/15

Left Out: -3.734+/-10.776 χ^2/NDF : 0.1/2

Right Out: 2.244+/-6.042 χ^2/NDF : 15.4/18

Left In: -7.998+/-11.682 χ^2/NDF : 3.4/1

Left: -5.694+/-7.921 χ^2/NDF : 3.6/4

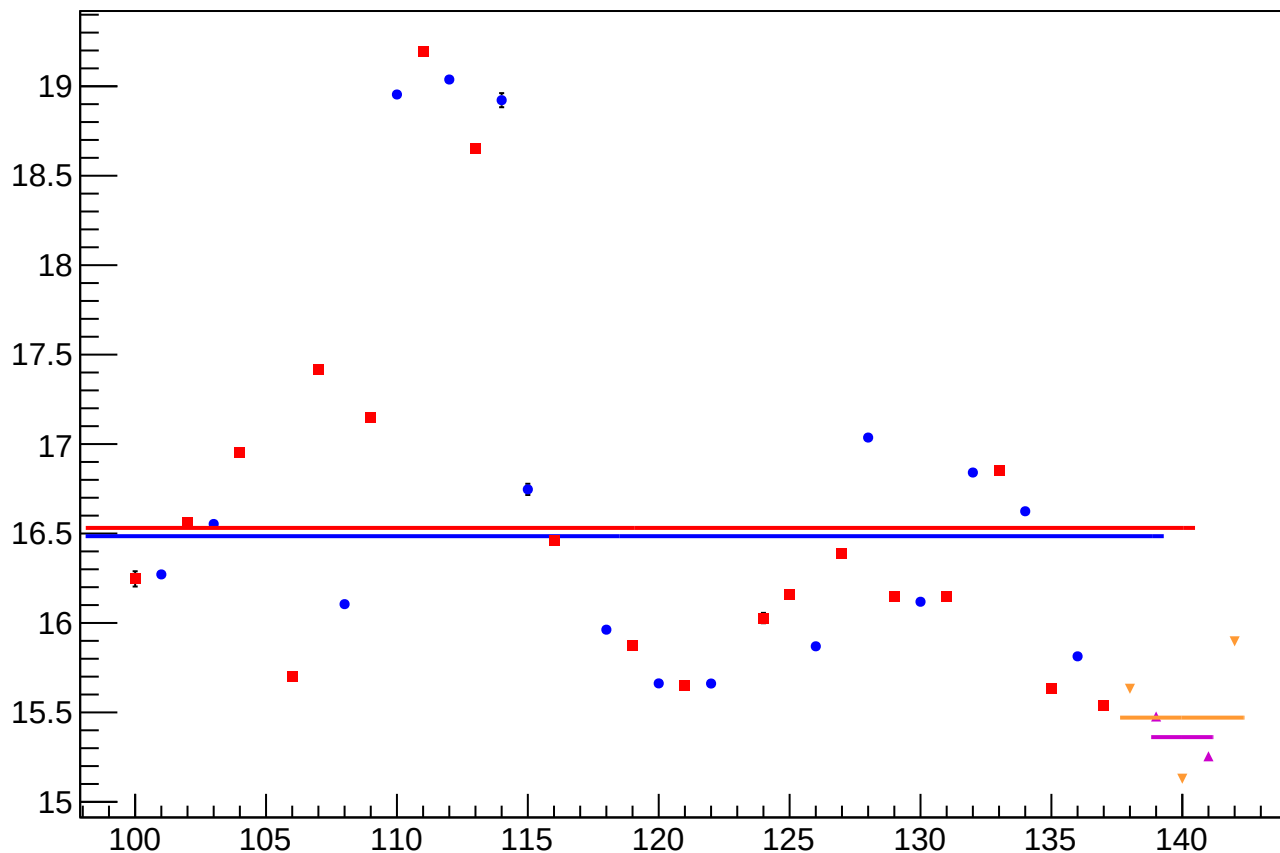
Right: 3.307+/-4.306 χ^2/NDF : 19.7/34

In: 1.722+/-5.433 χ^2/NDF : 8.5/17

Out: 0.814+/-5.270 χ^2/NDF : 15.8/21

All: 1.254+/-3.783 χ^2/NDF : 24.3/39

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.485 $\pm$ 0.004 χ^2 /NDF: 47186.1/15

Left Out: 15.471 $\pm$ 0.008 χ^2 /NDF:1657.4/2

Right Out: 16.531 $\pm$ 0.004 χ^2 /NDF: 46474.0/18

Left In: 15.362 $\pm$ 0.008 χ^2 /NDF:181.1/1

Left: 15.421 $\pm$ 0.006 χ^2 /NDF: 1932.5/4

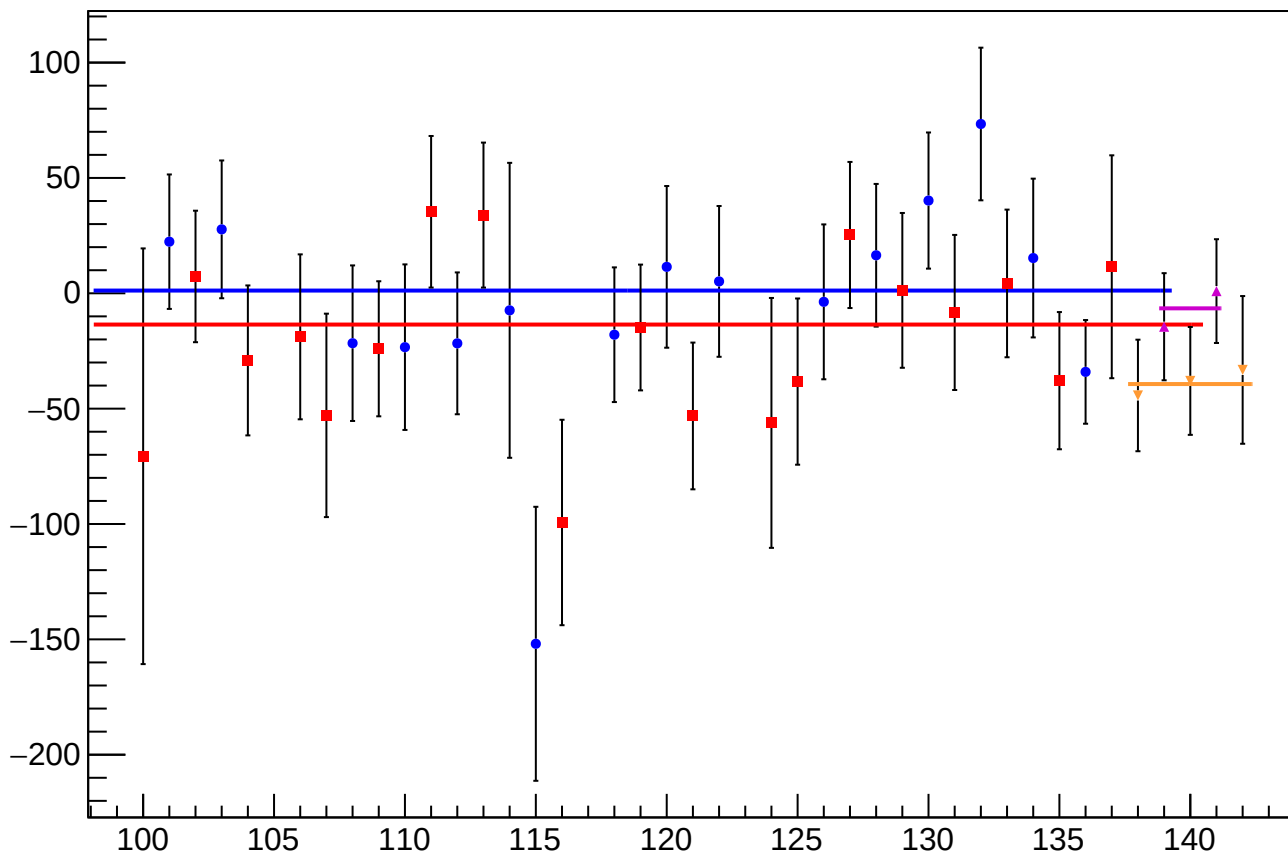
Right: 16.509 $\pm$ 0.003 χ^2 /NDF: 93717.6/34

In: 16.242 $\pm$ 0.004 χ^2 /NDF:61855.6/17

Out: 16.278 $\pm$ 0.004 χ^2 /NDF:62866.8/21

All: 16.260 $\pm$ 0.003 χ^2 /NDF: 124766.3/39

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.185 ± 8.088 $\chi^2/\text{NDF}: 19.4/15$

Left Out: -39.338 ± 14.879 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -13.549 ± 7.915 $\chi^2/\text{NDF}: 15.9/18$

Left In: -6.524 ± 16.152 $\chi^2/\text{NDF}: 0.2/1$

Left: -24.274 ± 10.943 $\chi^2/\text{NDF}: 2.5/4$

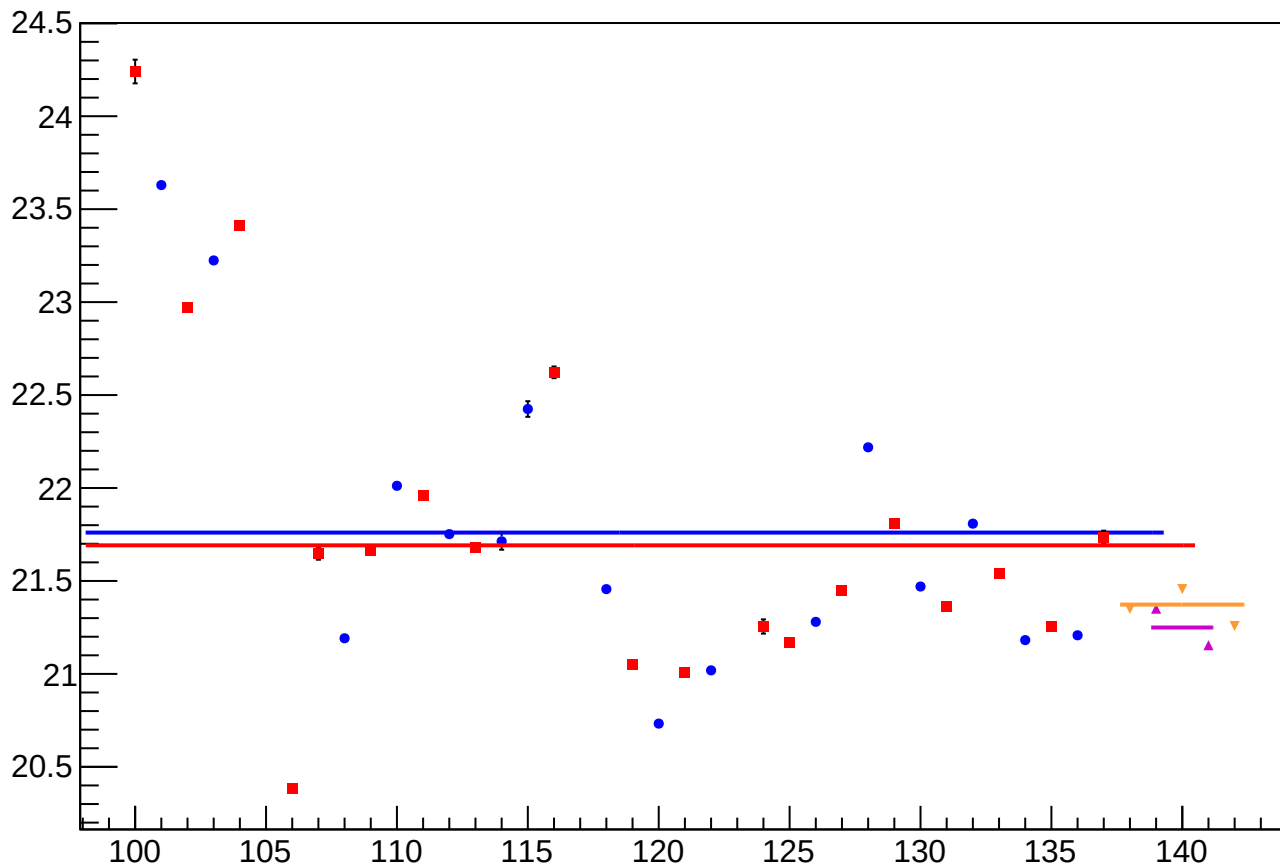
Right: -6.341 ± 5.657 $\chi^2/\text{NDF}: 37.0/34$

In: -0.361 ± 7.232 $\chi^2/\text{NDF}: 19.8/17$

Out: -19.237 ± 6.988 $\chi^2/\text{NDF}: 18.4/21$

All: -10.123 ± 5.025 $\chi^2/\text{NDF}: 41.7/39$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.760 $\pm$ 0.006 χ^2/NDF : 19745.7/15

Left Out: 21.373 $\pm$ 0.011 χ^2/NDF : 53.3/2

Right Out: 21.692 $\pm$ 0.006 χ^2/NDF : 18330.7/18

Left In: 21.250 $\pm$ 0.011 χ^2/NDF : 74.0/1

Left: 21.316 $\pm$ 0.008 χ^2/NDF : 190.3/4

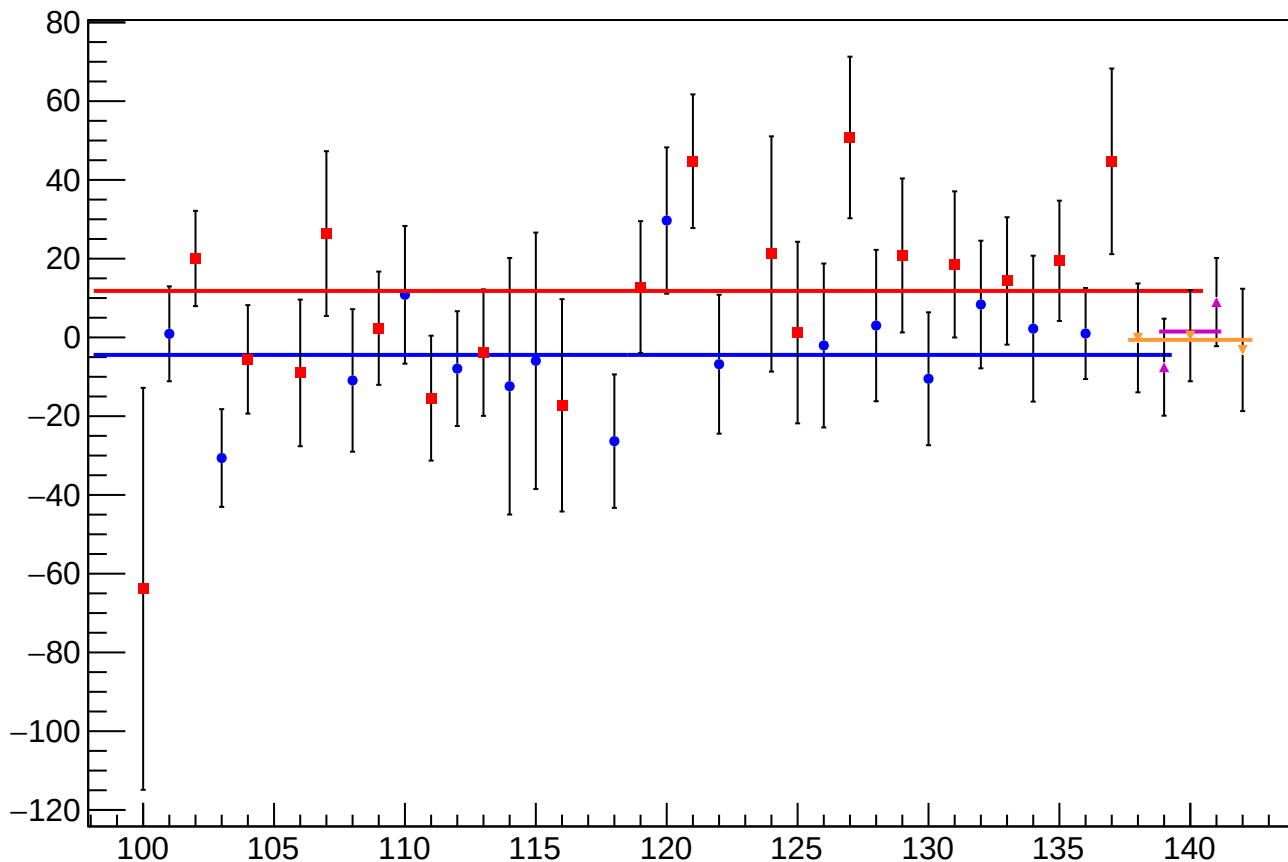
Right: 21.725 $\pm$ 0.004 χ^2/NDF : 38150.0/34

In: 21.658 $\pm$ 0.005 χ^2/NDF : 21418.5/17

Out: 21.621 $\pm$ 0.005 χ^2/NDF : 19099.2/21

All: 21.639 $\pm$ 0.004 χ^2/NDF : 40544.2/39

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.440 ± 4.131 χ^2/NDF : 12.0/15

Left Out: -0.623 ± 7.707 χ^2/NDF : 0.0/2

Right Out: 11.807 ± 4.097 χ^2/NDF : 21.7/18

Left In: 1.496 ± 8.286 χ^2/NDF : 1.0/1

Left: 0.360 ± 5.643 χ^2/NDF : 1.1/4

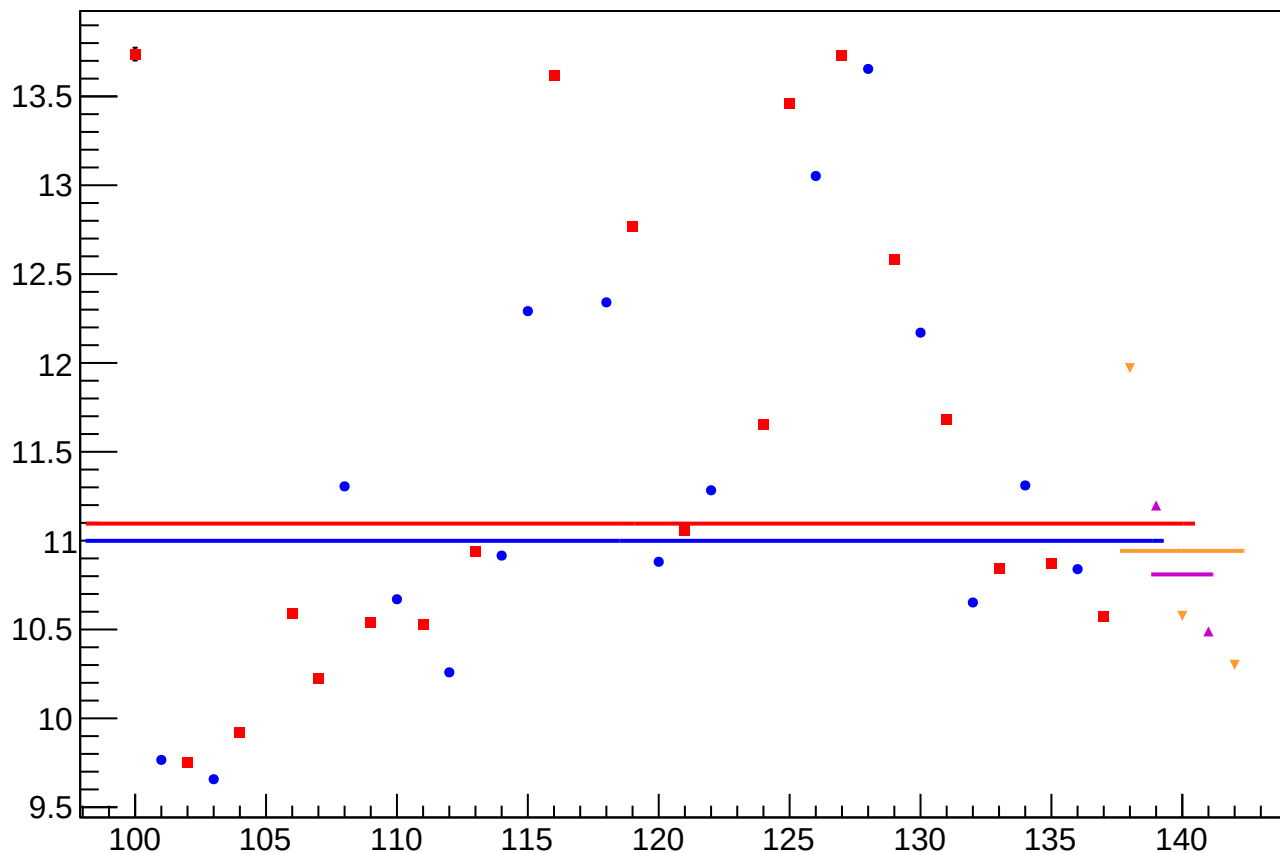
Right: 3.749 ± 2.909 χ^2/NDF : 41.5/34

In: -3.258 ± 3.697 χ^2/NDF : 13.4/17

Out: 9.068 ± 3.618 χ^2/NDF : 23.8/21

All: 3.038 ± 2.586 χ^2/NDF : 42.9/39

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.999 $\pm$ 0.003 χ^2 /NDF: 136159.2/15

Left Out: 10.942 $\pm$ 0.005 χ^2 /NDF:16471.4/2

Right Out: 11.096 $\pm$ 0.003 χ^2 /NDF: 162908.7/18

Left In: 10.810 $\pm$ 0.006 χ^2 /NDF:3622.0/1

Left: 10.881 $\pm$ 0.004 χ^2 /NDF: 20368.1/4

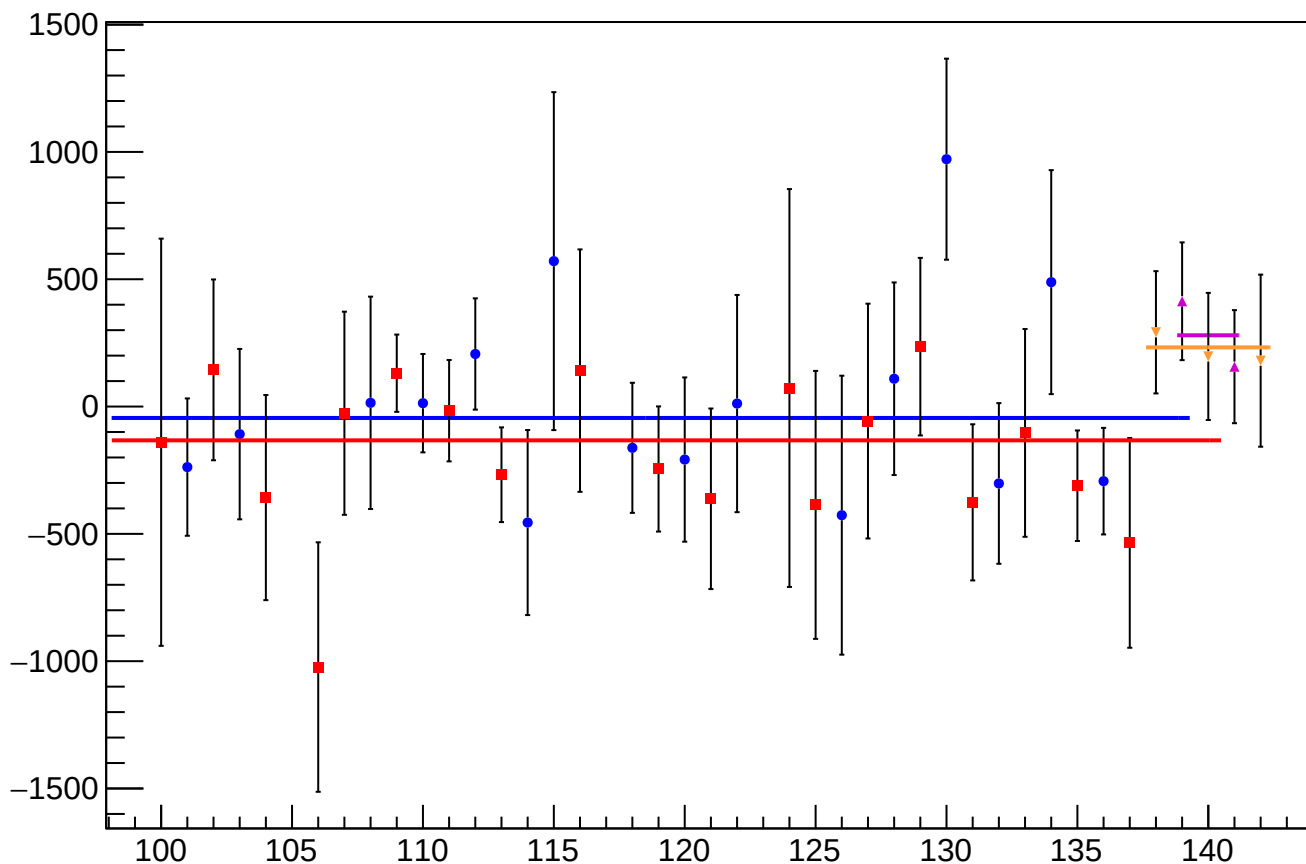
Right: 11.048 $\pm$ 0.002 χ^2 /NDF: 299622.8/34

In: 10.961 $\pm$ 0.003 χ^2 /NDF:140615.9/17

Out: 11.062 $\pm$ 0.003 χ^2 /NDF:179998.4/21

All: 11.013 $\pm$ 0.002 χ^2 /NDF: 321373.0/39

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -44.797 $\pm$ 76.424 χ^2 /NDF: 15.4/15

Left Out: 232.423 $\pm$ 154.027 χ^2 /NDF:0.1/2

Right Out: -132.730 $\pm$ 68.270 χ^2 /NDF: 12.9/18

Left In: 279.905 $\pm$ 160.159 χ^2 /NDF:0.6/1

Left: 255.237 $\pm$ 111.018 χ^2 /NDF: 0.8/4

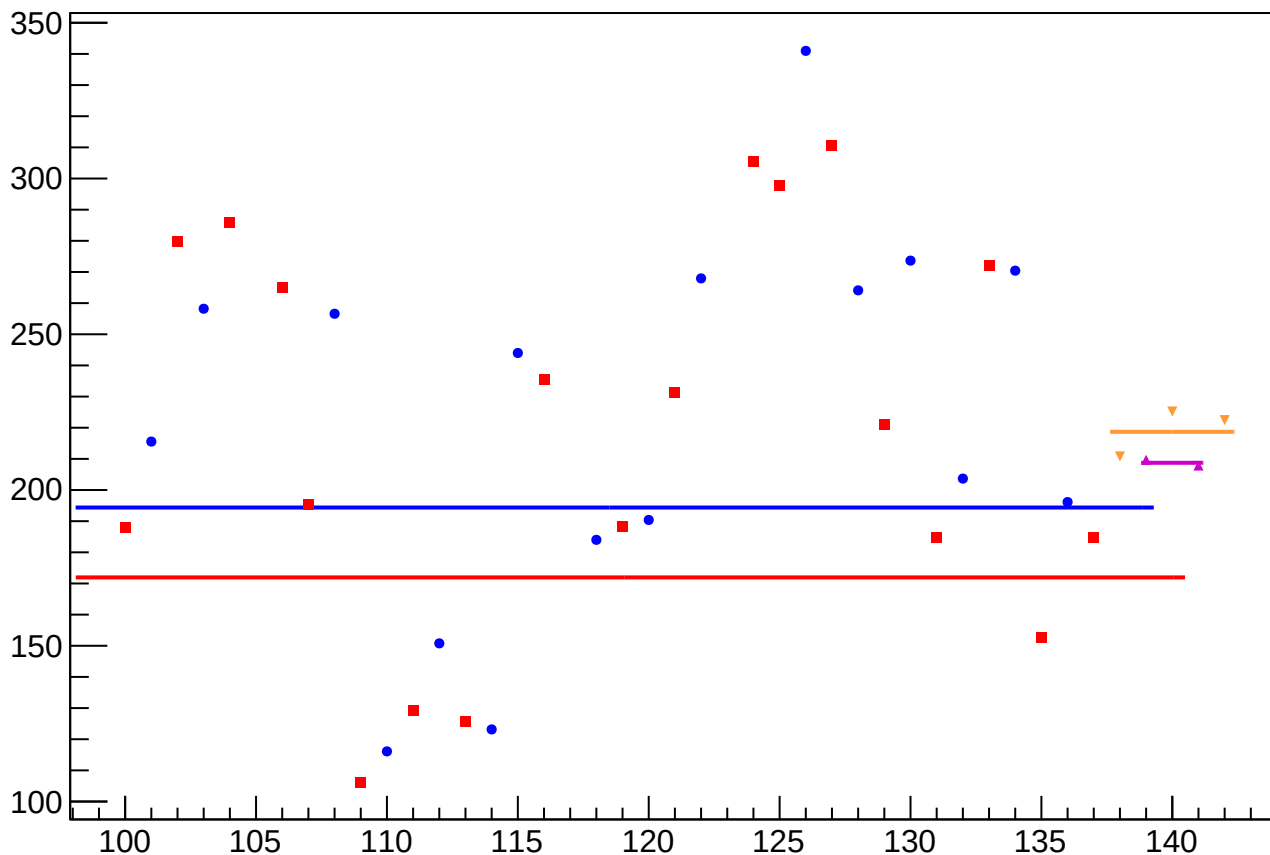
Right: -93.703 $\pm$ 50.914 χ^2 /NDF: 29.0/34

In: 15.424 $\pm$ 68.973 χ^2 /NDF:19.4/17

Out: -72.773 $\pm$ 62.414 χ^2 /NDF:17.7/21

All: -33.067 $\pm$ 46.279 χ^2 /NDF: 38.0/39

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.385 $\pm$ 0.054 χ^2 /NDF: 1042024.1/15

Left Out: 218.691 $\pm$ 0.109 χ^2 /NDF:3775.2/2

Right Out: 171.949 $\pm$ 0.048 χ^2 /NDF: 1651343.7/18

Left In: 208.750 $\pm$ 0.113 χ^2 /NDF:65.1/1

Left: 213.915 $\pm$ 0.079 χ^2 /NDF: 7843.7/4

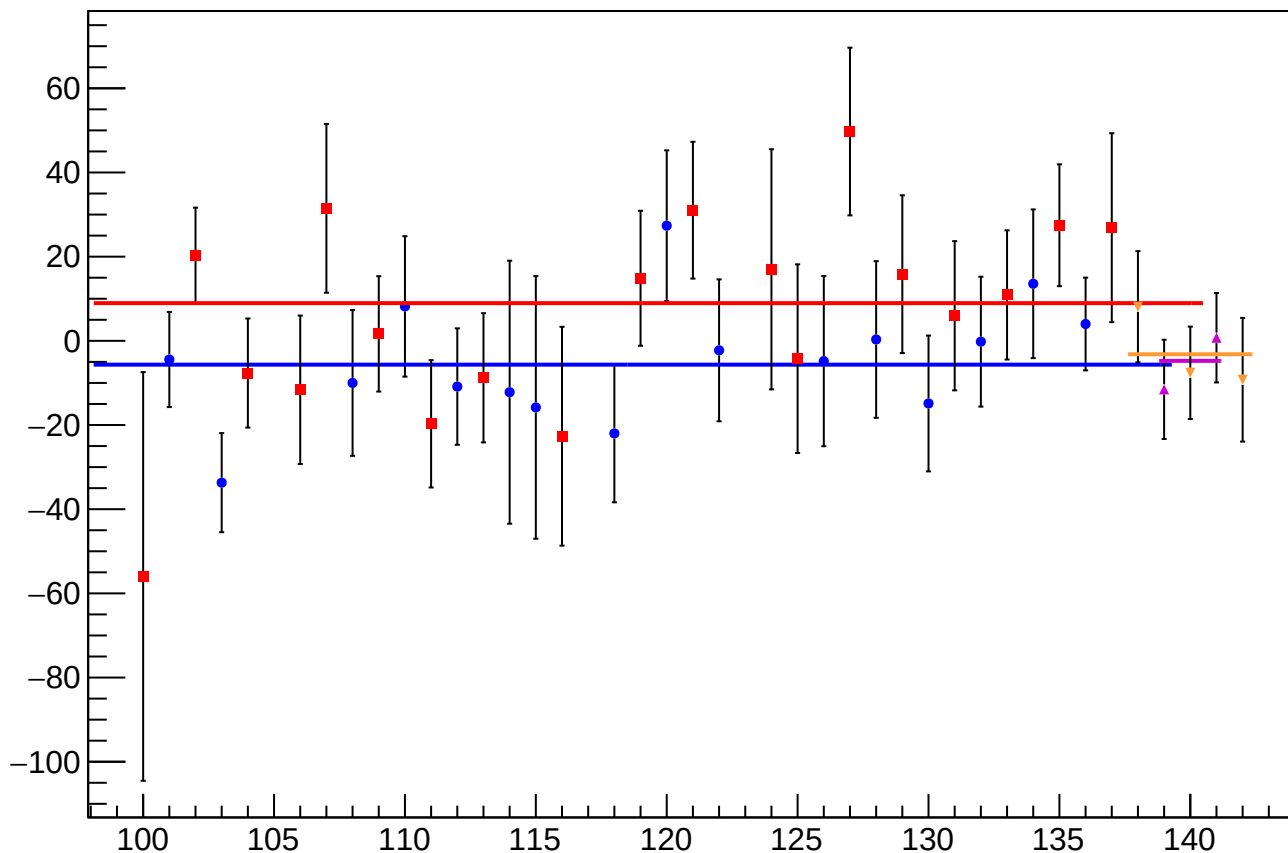
Right: 181.907 $\pm$ 0.036 χ^2 /NDF: 2789239.1/34

In: 197.049 $\pm$ 0.049 χ^2 /NDF:1055194.0/17

Out: 179.624 $\pm$ 0.044 χ^2 /NDF:1809062.3/21

All: 187.469 $\pm$ 0.033 χ^2 /NDF: 2934441.1/39

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.657+/-3.939 χ^2/NDF : 13.7/15

Left Out: -3.191+/-7.318 χ^2/NDF : 1.1/2

Right Out: 8.960+/-3.901 χ^2/NDF : 22.8/18

Left In: -4.757+/-7.892 χ^2/NDF : 0.6/1

Left: -3.915+/-5.366 χ^2/NDF : 1.7/4

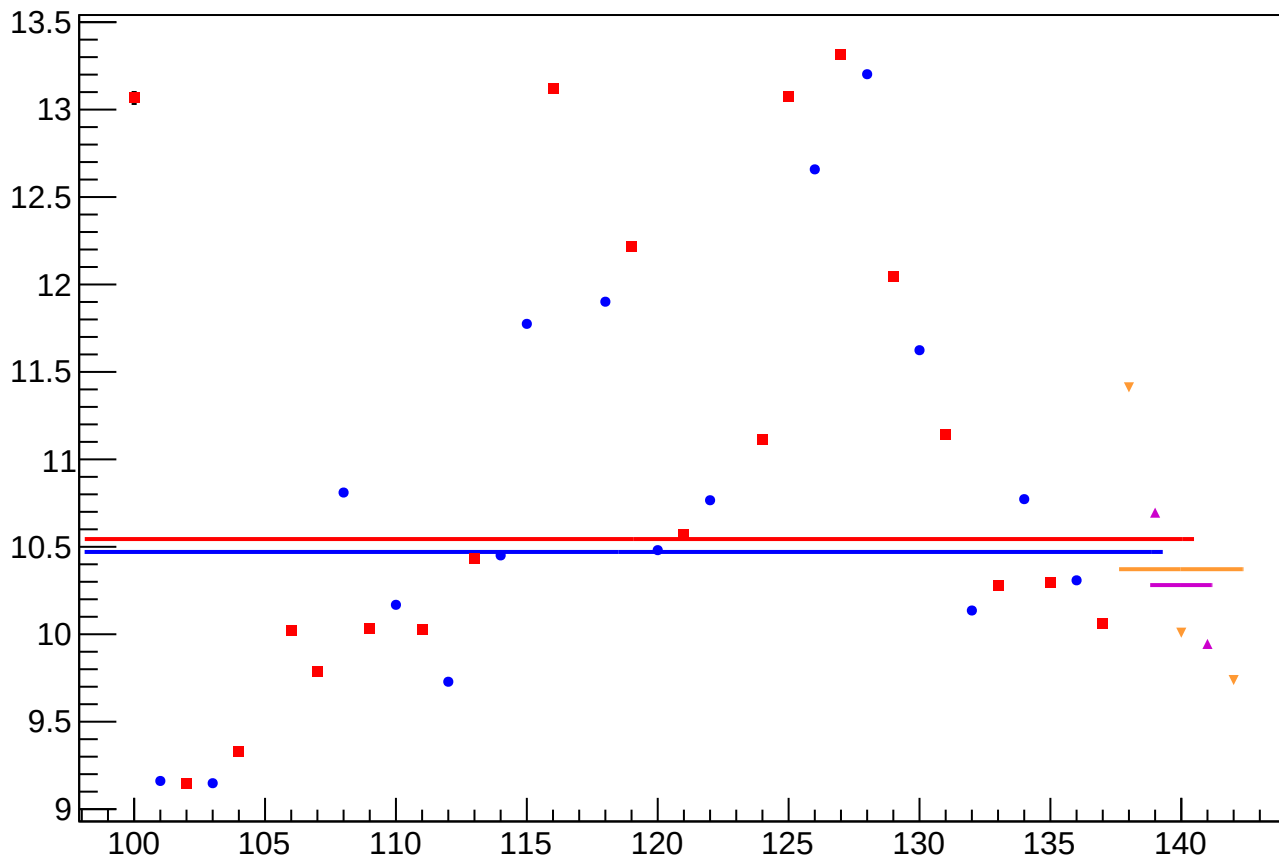
Right: 1.723+/-2.772 χ^2/NDF : 43.4/34

In: -5.478+/-3.525 χ^2/NDF : 14.3/17

Out: 6.272+/-3.442 χ^2/NDF : 26.0/21

All: 0.535+/-2.463 χ^2/NDF : 46.0/39

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.471+/-0.003 χ^2/NDF : 157365.8/15

Left Out: 10.372+/-0.005 χ^2/NDF : 18294.4/2

Right Out: 10.544+/-0.003 χ^2/NDF : 186780.3/18

Left In: 10.281+/-0.006 χ^2/NDF : 4473.6/1

Left: 10.330+/-0.004 χ^2/NDF : 22910.2/4

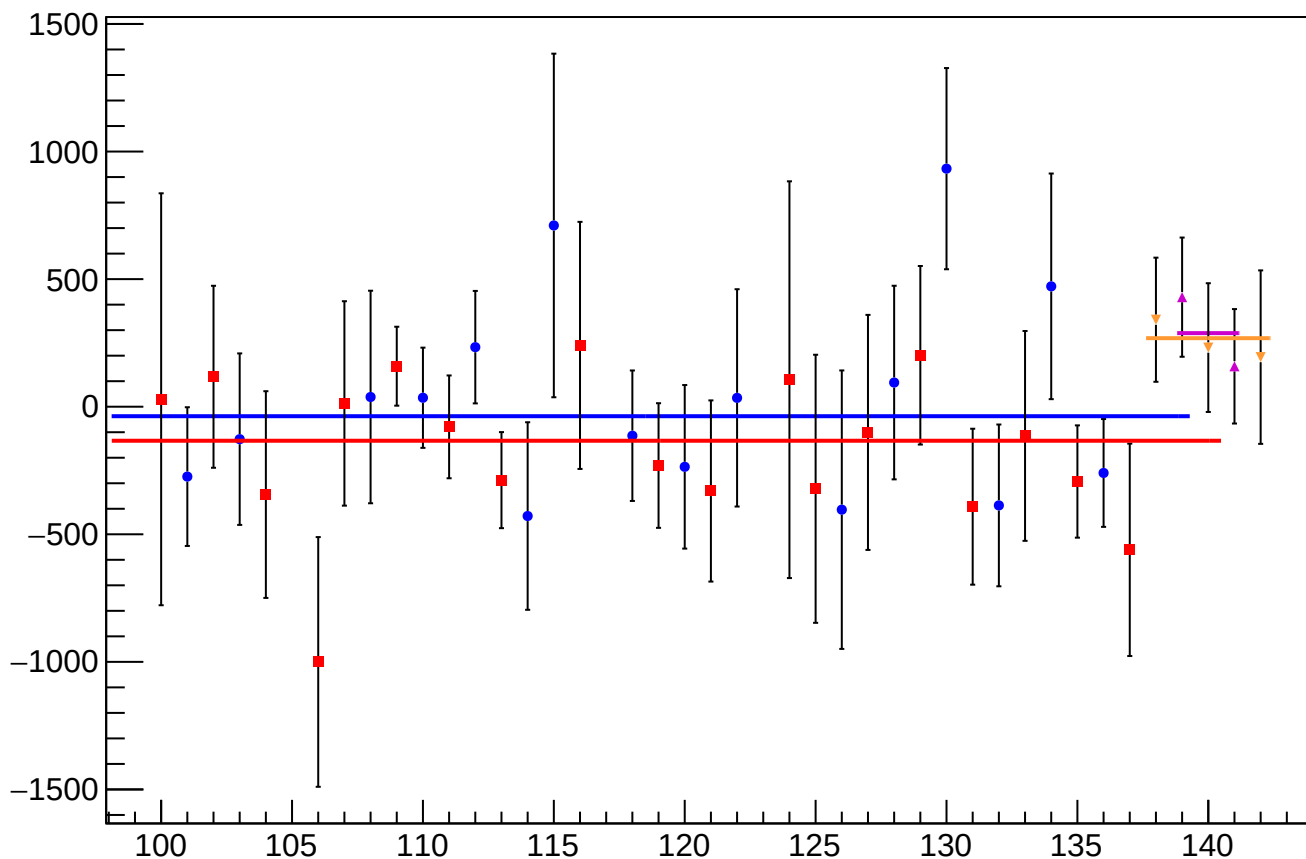
Right: 10.508+/-0.002 χ^2/NDF : 344500.1/34

In: 10.433+/-0.002 χ^2/NDF : 162761.3/17

Out: 10.506+/-0.002 χ^2/NDF : 205938.8/21

All: 10.470+/-0.002 χ^2/NDF : 369143.9/39

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -37.241+/-76.915 χ^2/NDF : 15.6/15

Left Out: 268.577+/-155.668 χ^2/NDF : 0.2/2

Right Out: -133.386+/-68.885 χ^2/NDF : 12.9/18

Left In: 288.365+/-161.769 χ^2/NDF : 0.7/1

Left: 278.091+/-112.169 χ^2/NDF : 0.9/4

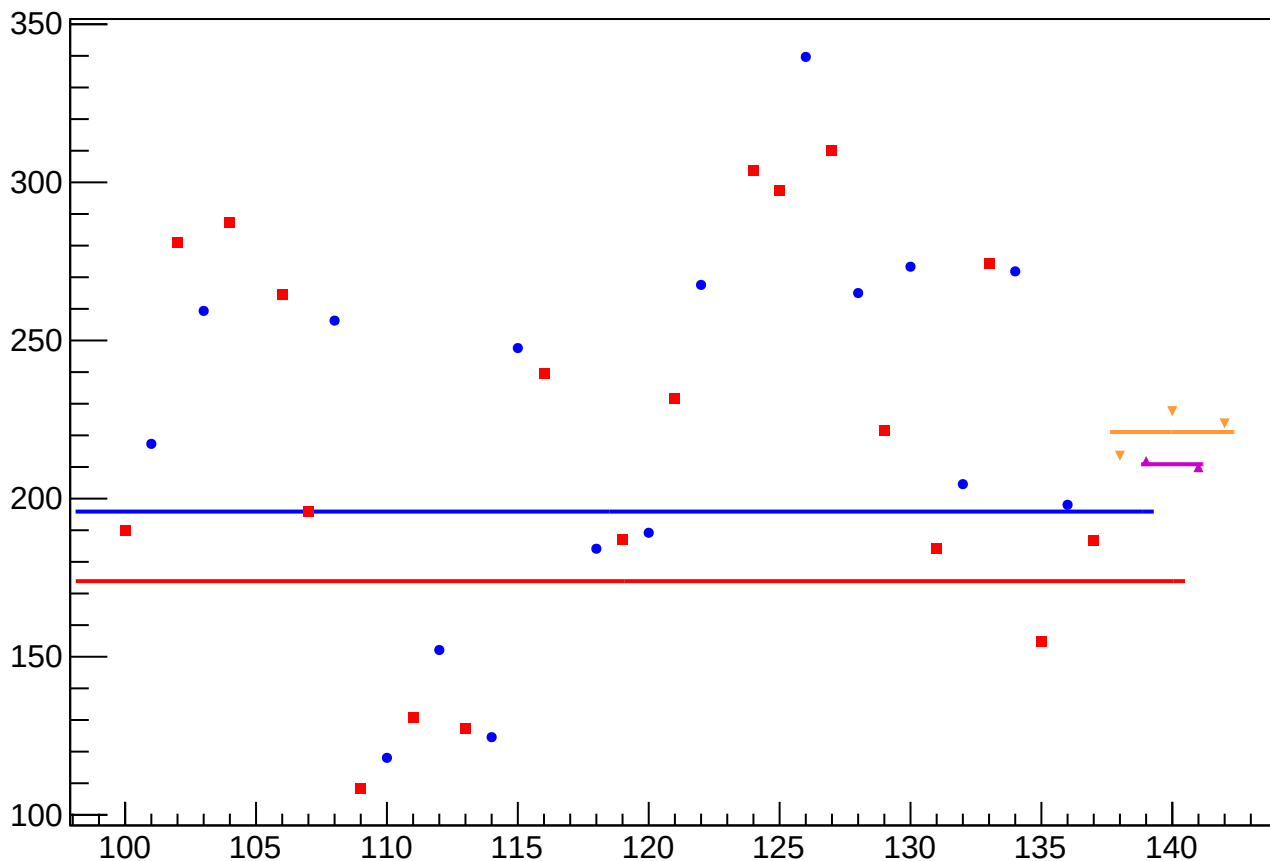
Right: -90.593+/-51.314 χ^2/NDF : 29.4/34

In: 22.795+/-69.463 χ^2/NDF : 19.7/17

Out: -67.563+/-62.993 χ^2/NDF : 18.6/21

All: -26.787+/-46.663 χ^2/NDF : 39.2/39

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.900 $\pm$ 0.054 χ^2 /NDF: 1011012.3/15

Left Out: 221.057 $\pm$ 0.110 χ^2 /NDF:3392.0/2

Right Out: 173.901 $\pm$ 0.049 χ^2 /NDF: 1599608.1/18

Left In: 210.877 $\pm$ 0.114 χ^2 /NDF:69.6/1

Left: 216.163 $\pm$ 0.079 χ^2 /NDF: 7574.3/4

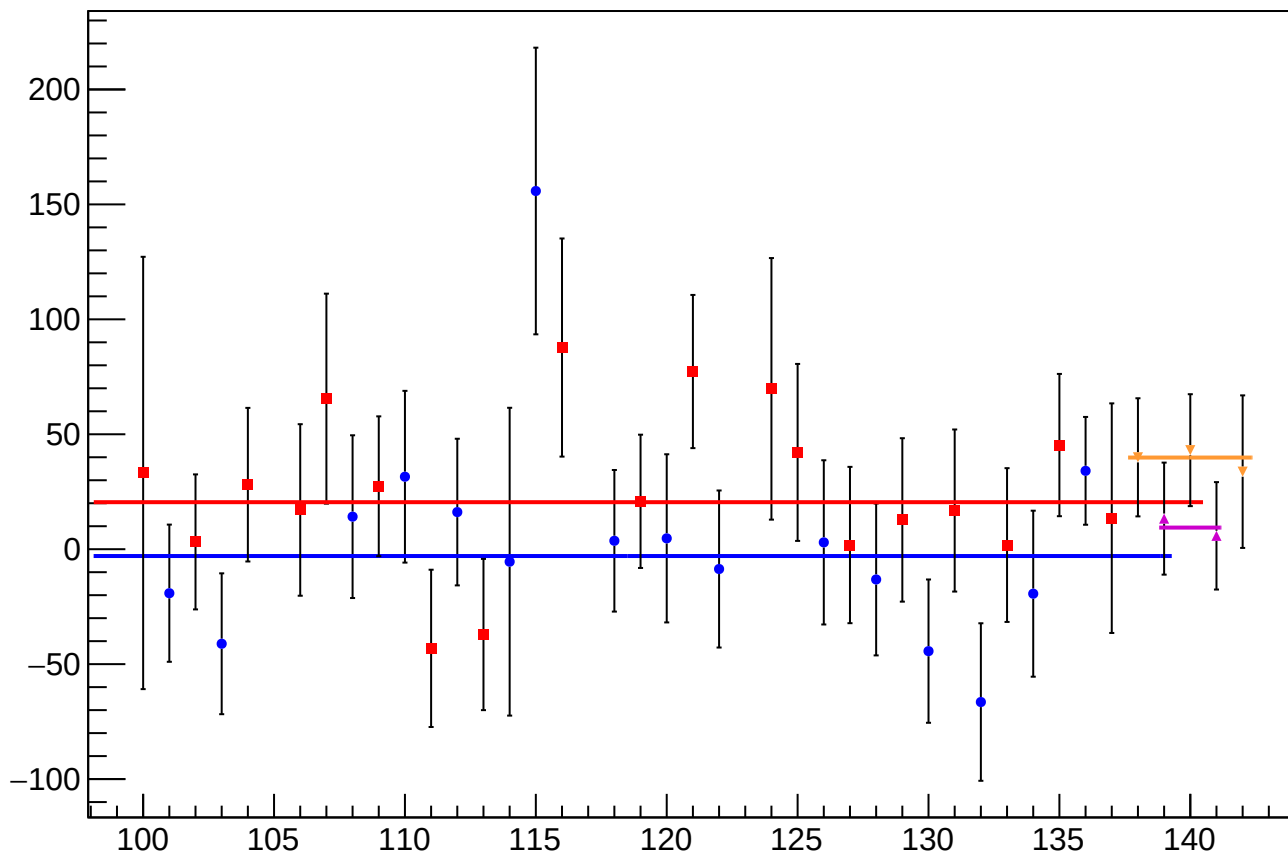
Right: 183.693 $\pm$ 0.036 χ^2 /NDF: 2701402.5/34

In: 198.661 $\pm$ 0.049 χ^2 /NDF:1025064.5/17

Out: 181.623 $\pm$ 0.045 χ^2 /NDF:1756475.2/21

All: 189.312 $\pm$ 0.033 χ^2 /NDF: 2847564.1/39

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.967+/-8.454 χ^2/NDF : 17.9/15

Left Out: 39.872+/-15.598 χ^2/NDF : 0.1/2

Right Out: 20.457+/-8.292 χ^2/NDF : 15.3/18

Left In: 9.404+/-16.865 χ^2/NDF : 0.0/1

Left: 25.825+/-11.451 χ^2/NDF : 1.9/4

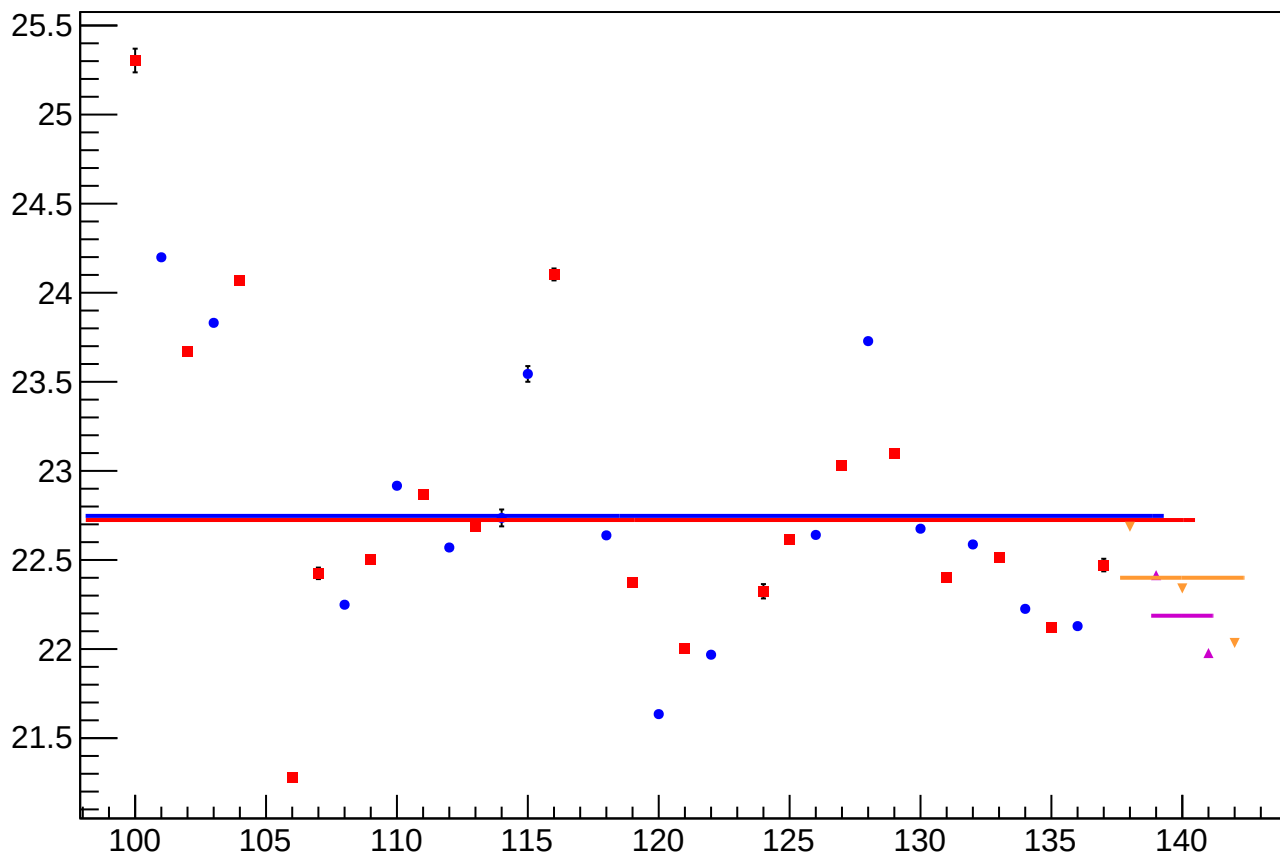
Right: 8.972+/-5.920 χ^2/NDF : 37.1/34

In: -0.483+/-7.558 χ^2/NDF : 18.4/17

Out: 24.735+/-7.322 χ^2/NDF : 16.5/21

All: 12.526+/-5.259 χ^2/NDF : 40.7/39

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.747 $\pm$ 0.006 χ^2 /NDF: 14622.8/15

Left Out: 22.400 $\pm$ 0.011 χ^2 /NDF: 503.6/2

Right Out: 22.724 $\pm$ 0.006 χ^2 /NDF: 14490.6/18

Left In: 22.187 $\pm$ 0.012 χ^2 /NDF: 335.3/1

Left: 22.302 $\pm$ 0.008 χ^2 /NDF: 1011.1/4

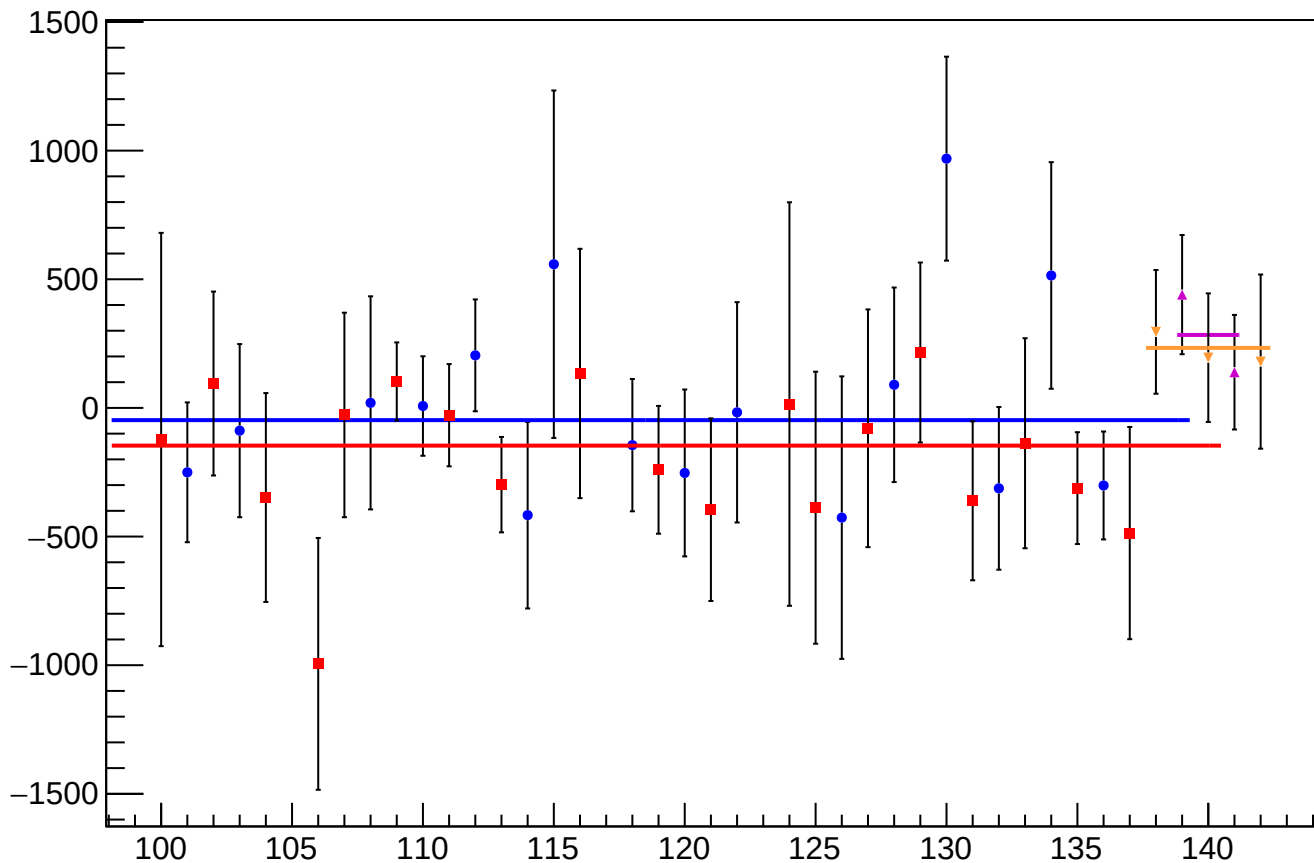
Right: 22.736 $\pm$ 0.004 χ^2 /NDF: 29121.1/34

In: 22.635 $\pm$ 0.005 χ^2 /NDF: 16722.9/17

Out: 22.653 $\pm$ 0.005 χ^2 /NDF: 15667.2/21

All: 22.644 $\pm$ 0.004 χ^2 /NDF: 32395.8/39

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -47.523 ± 76.571 χ^2/NDF : 15.4/15

Left Out: 233.366 ± 154.215 χ^2/NDF : 0.1/2

Right Out: -146.573 ± 68.398 χ^2/NDF : 11.6/18

Left In: 283.621 ± 160.511 χ^2/NDF : 0.9/1

Left: 257.489 ± 111.206 χ^2/NDF : 1.0/4

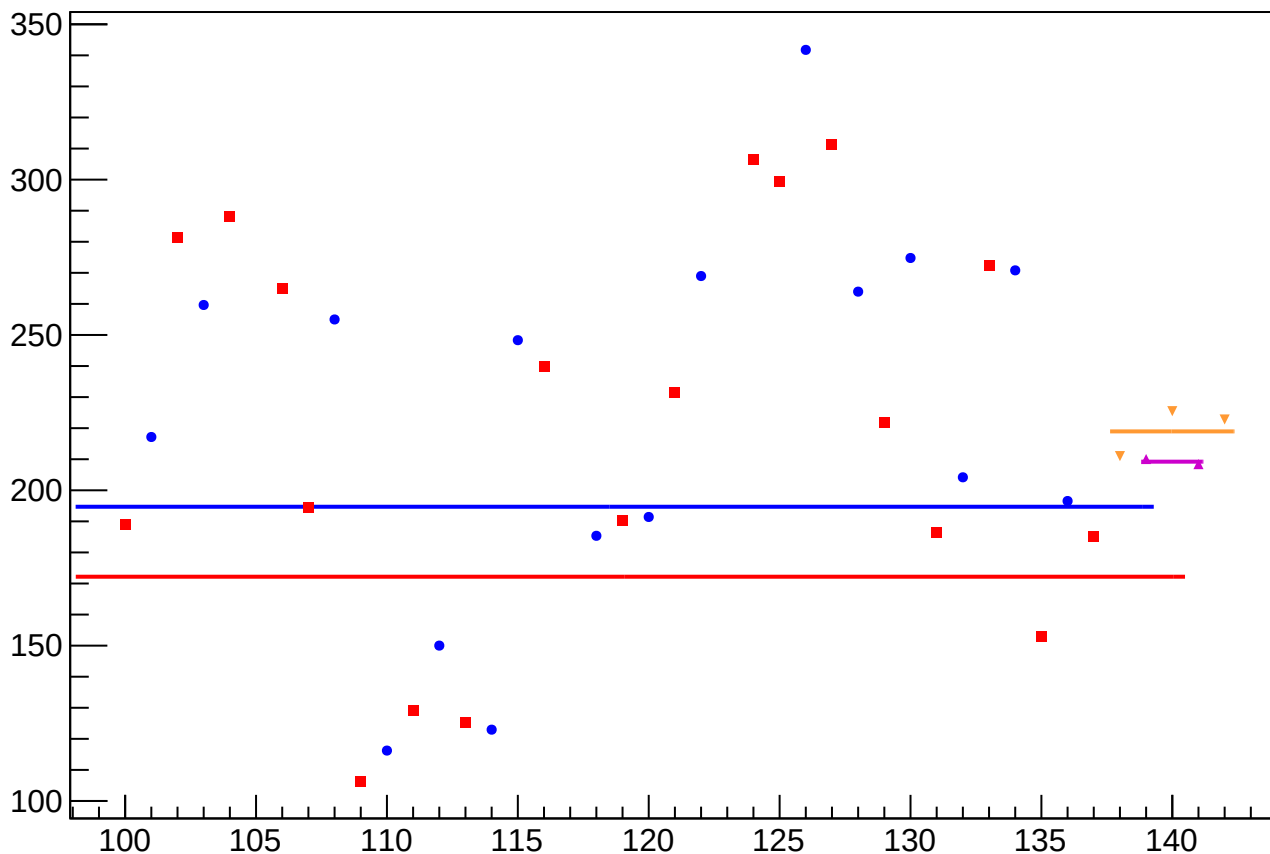
Right: -102.614 ± 51.010 χ^2/NDF : 27.9/34

In: 13.866 ± 69.110 χ^2/NDF : 19.7/17

Out: -84.119 ± 62.524 χ^2/NDF : 16.8/21

All: -40.017 ± 46.365 χ^2/NDF : 37.6/39

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.708 $\pm$ 0.054 χ^2 /NDF: 1052288.9/15

Left Out: 218.960 $\pm$ 0.109 χ^2 /NDF:3804.8/2

Right Out: 172.186 $\pm$ 0.048 χ^2 /NDF: 1671068.3/18

Left In: 209.217 $\pm$ 0.113 χ^2 /NDF:52.3/1

Left: 214.283 $\pm$ 0.079 χ^2 /NDF: 7689.2/4

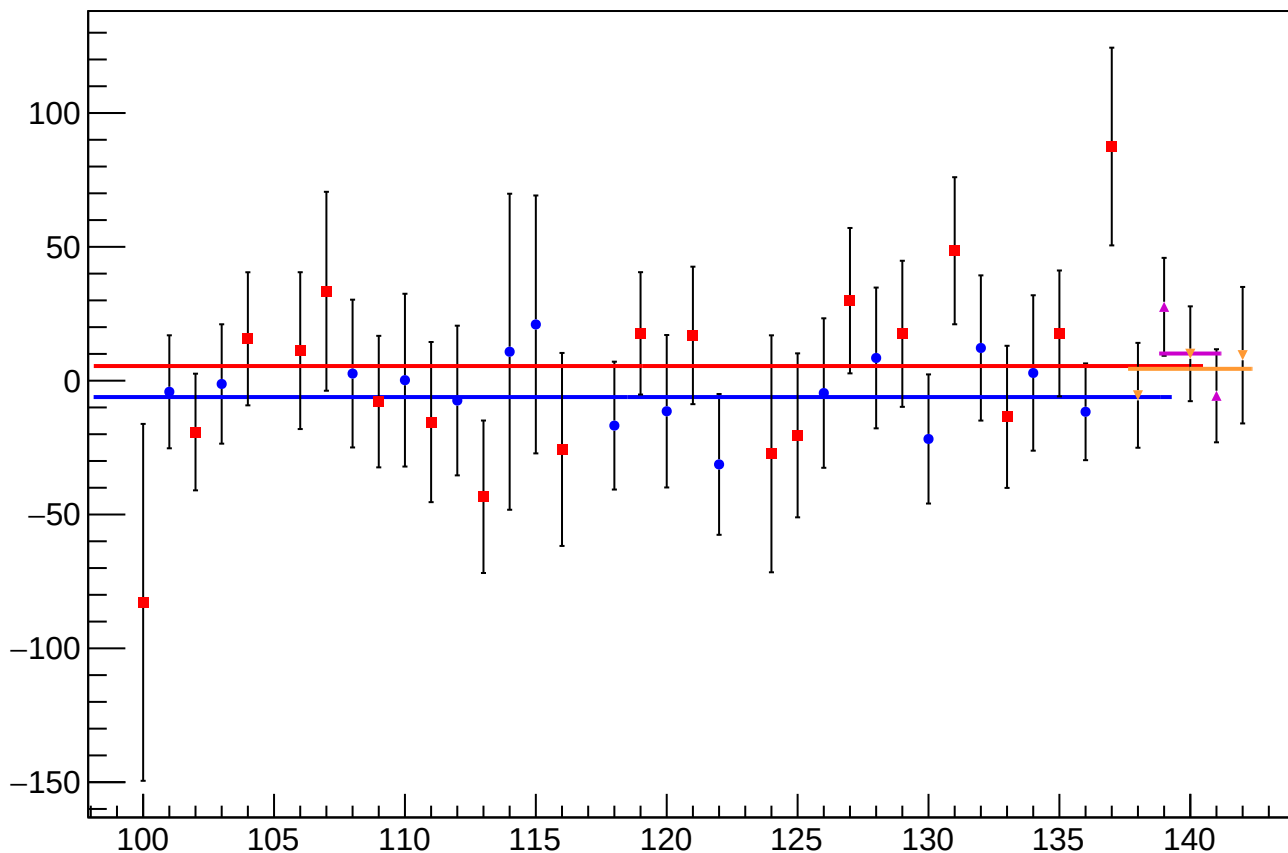
Right: 182.181 $\pm$ 0.036 χ^2 /NDF: 2819594.0/34

In: 197.398 $\pm$ 0.049 χ^2 /NDF:1065653.3/17

Out: 179.875 $\pm$ 0.044 χ^2 /NDF:1828617.0/21

All: 187.762 $\pm$ 0.033 χ^2 /NDF: 2964975.8/39

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.119 $\pm$ 6.592 χ^2 /NDF: 3.1/15

Left Out: 4.427 $\pm$ 11.679 χ^2 /NDF:0.4/2

Right Out: 5.470 $\pm$ 6.509 χ^2 /NDF: 19.2/18

Left In: 10.143 $\pm$ 12.602 χ^2 /NDF:1.7/1

Left: 7.068 $\pm$ 8.566 χ^2 /NDF: 2.2/4

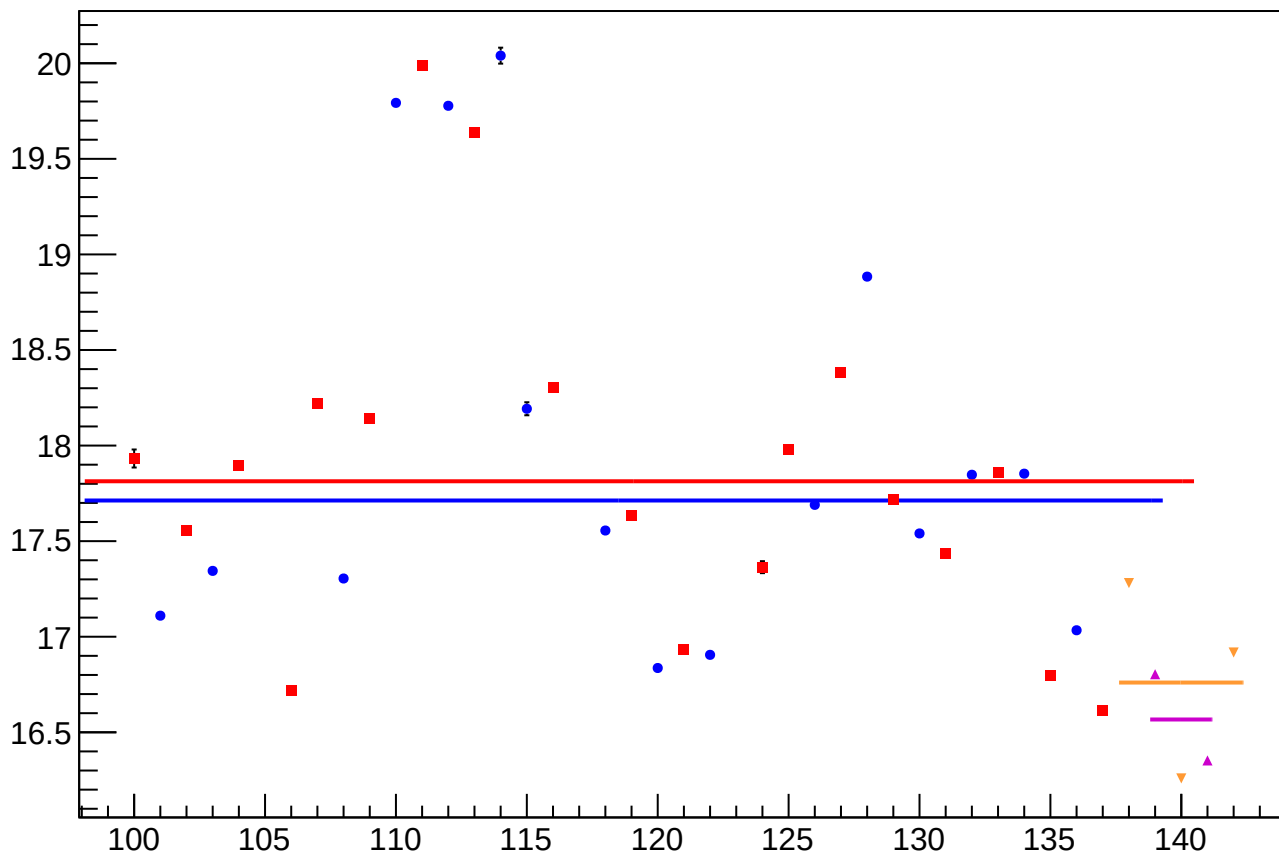
Right: -0.251 $\pm$ 4.632 χ^2 /NDF: 23.9/34

In: -2.625 $\pm$ 5.841 χ^2 /NDF:6.2/17

Out: 5.223 $\pm$ 5.686 χ^2 /NDF:19.6/21

All: 1.405 $\pm$ 4.074 χ^2 /NDF: 26.7/39

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.713+/-0.005 χ^2/NDF : 35983.5/15

Left Out: 16.760+/-0.008 χ^2/NDF : 3090.6/2

Right Out: 17.813+/-0.005 χ^2/NDF : 32713.6/18

Left In: 16.567+/-0.009 χ^2/NDF : 638.7/1

Left: 16.671+/-0.006 χ^2/NDF : 3982.3/4

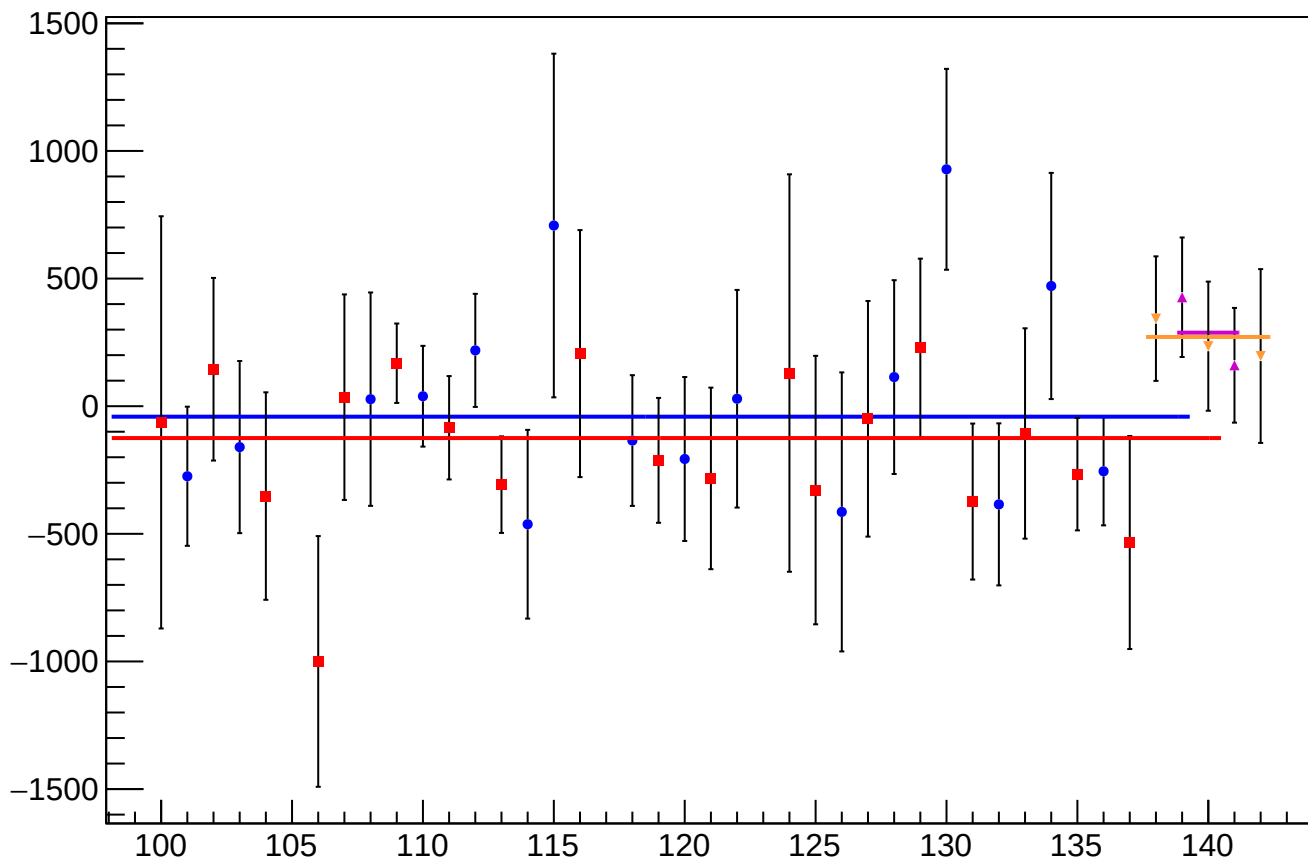
Right: 17.764+/-0.003 χ^2/NDF : 68933.0/34

In: 17.467+/-0.004 χ^2/NDF : 49598.9/17

Out: 17.564+/-0.004 χ^2/NDF : 48208.0/21

All: 17.516+/-0.003 χ^2/NDF : 98091.4/39

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -41.114 ± 77.139 $\chi^2/\text{NDF}: 15.6/15$

Left Out: 271.239 ± 156.049 $\chi^2/\text{NDF}: 0.2/2$

Right Out: -124.872 ± 69.109 $\chi^2/\text{NDF}: 12.9/18$

Left In: 288.142 ± 162.116 $\chi^2/\text{NDF}: 0.7/1$

Left: 279.368 ± 112.427 $\chi^2/\text{NDF}: 0.8/4$

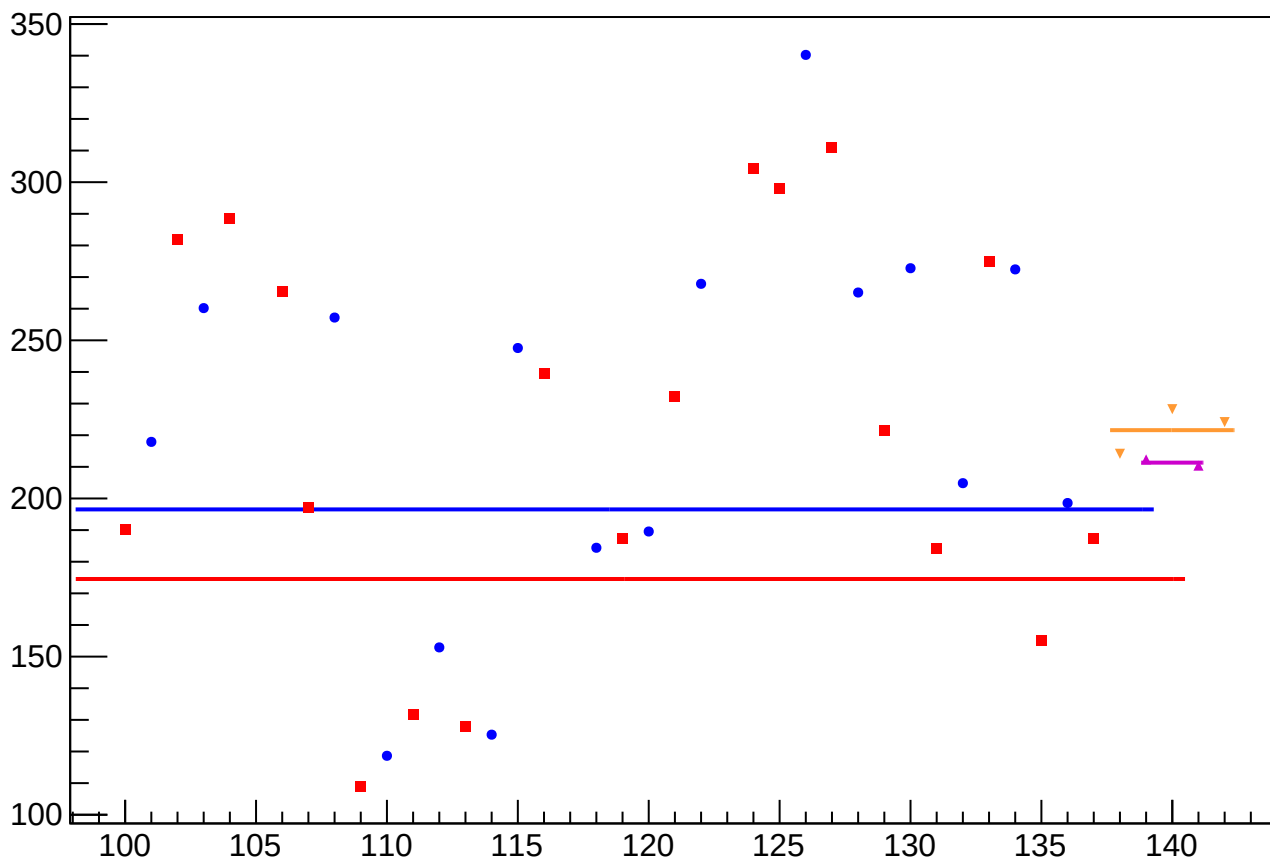
Right: -87.579 ± 51.473 $\chi^2/\text{NDF}: 29.1/34$

In: 19.671 ± 69.656 $\chi^2/\text{NDF}: 19.7/17$

Out: -59.922 ± 63.189 $\chi^2/\text{NDF}: 18.4/21$

All: -23.991 ± 46.801 $\chi^2/\text{NDF}: 38.8/39$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.542 $\pm$ 0.055 χ^2 /NDF: 1000770.4/15

Left Out: 221.598 $\pm$ 0.110 χ^2 /NDF:3362.1/2

Right Out: 174.540 $\pm$ 0.049 χ^2 /NDF: 1588725.2/18

Left In: 211.330 $\pm$ 0.115 χ^2 /NDF:73.6/1

Left: 216.660 $\pm$ 0.079 χ^2 /NDF: 7600.6/4

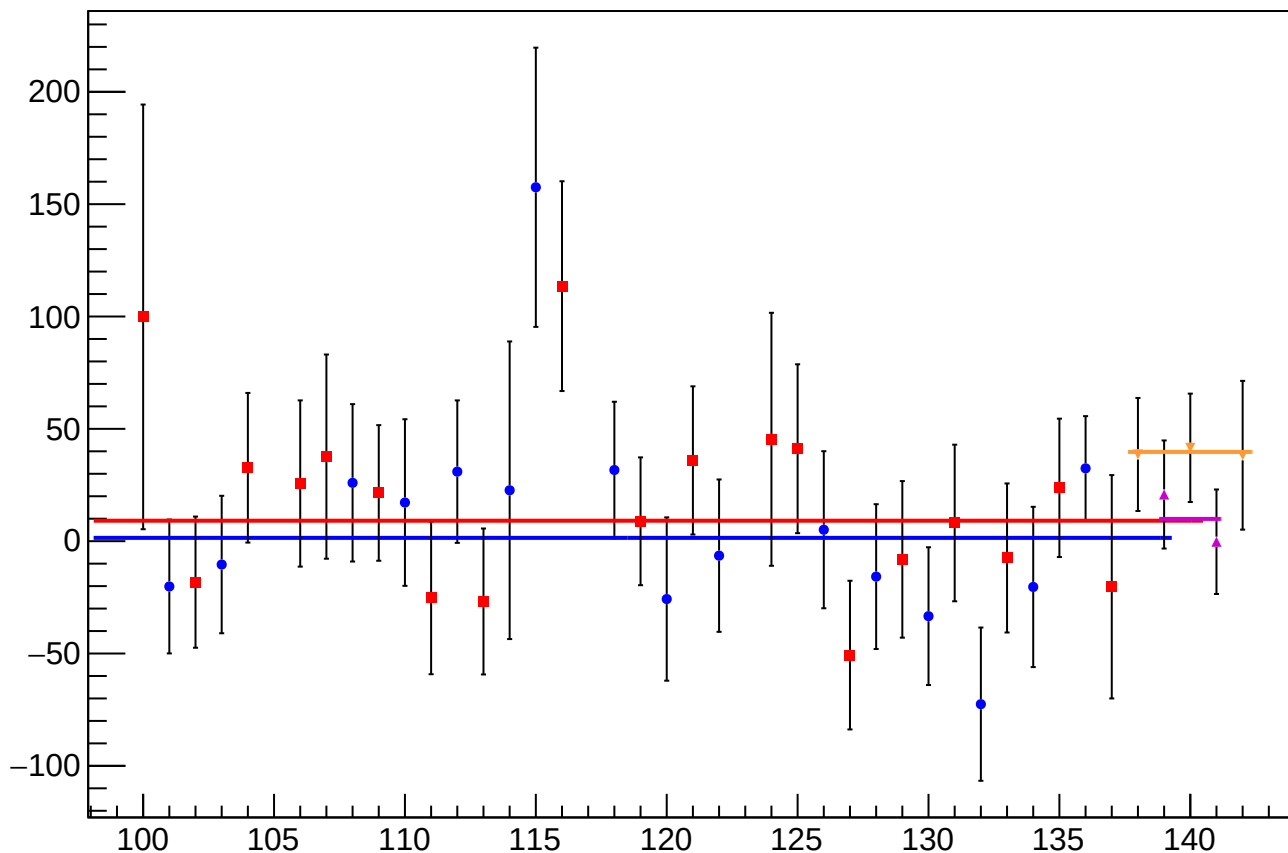
Right: 184.337 $\pm$ 0.036 χ^2 /NDF: 2679758.7/34

In: 199.272 $\pm$ 0.049 χ^2 /NDF:1014412.6/17

Out: 182.256 $\pm$ 0.045 χ^2 /NDF:1744142.9/21

All: 189.938 $\pm$ 0.033 χ^2 /NDF: 2824028.6/39

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.475 ± 8.370 χ^2/NDF : 18.7/15

Left Out: 39.724 ± 15.410 χ^2/NDF : 0.0/2

Right Out: 9.113 ± 8.198 χ^2/NDF : 16.5/18

Left In: 9.911 ± 16.721 χ^2/NDF : 0.4/1

Left: 26.032 ± 11.332 χ^2/NDF : 2.1/4

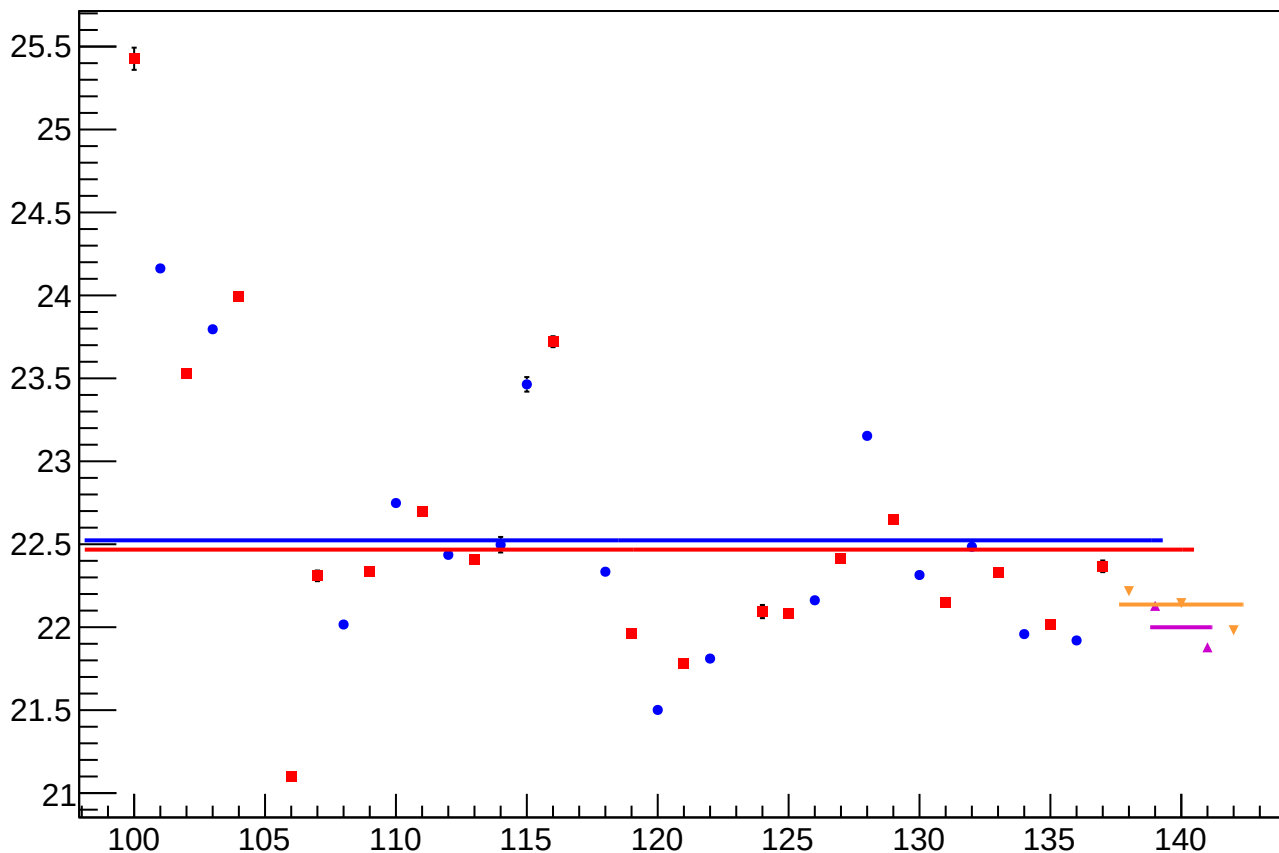
Right: 5.374 ± 5.857 χ^2/NDF : 35.6/34

In: 3.166 ± 7.485 χ^2/NDF : 19.3/17

Out: 15.865 ± 7.237 χ^2/NDF : 19.5/21

All: 9.729 ± 5.203 χ^2/NDF : 40.3/39

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.524+/-0.006 χ^2/NDF : 15947.8/15

Left Out: 22.137+/-0.011 χ^2/NDF : 64.7/2

Right Out: 22.468+/-0.006 χ^2/NDF : 15626.5/18

Left In: 22.000+/-0.012 χ^2/NDF : 111.4/1

Left: 22.074+/-0.008 χ^2/NDF : 248.8/4

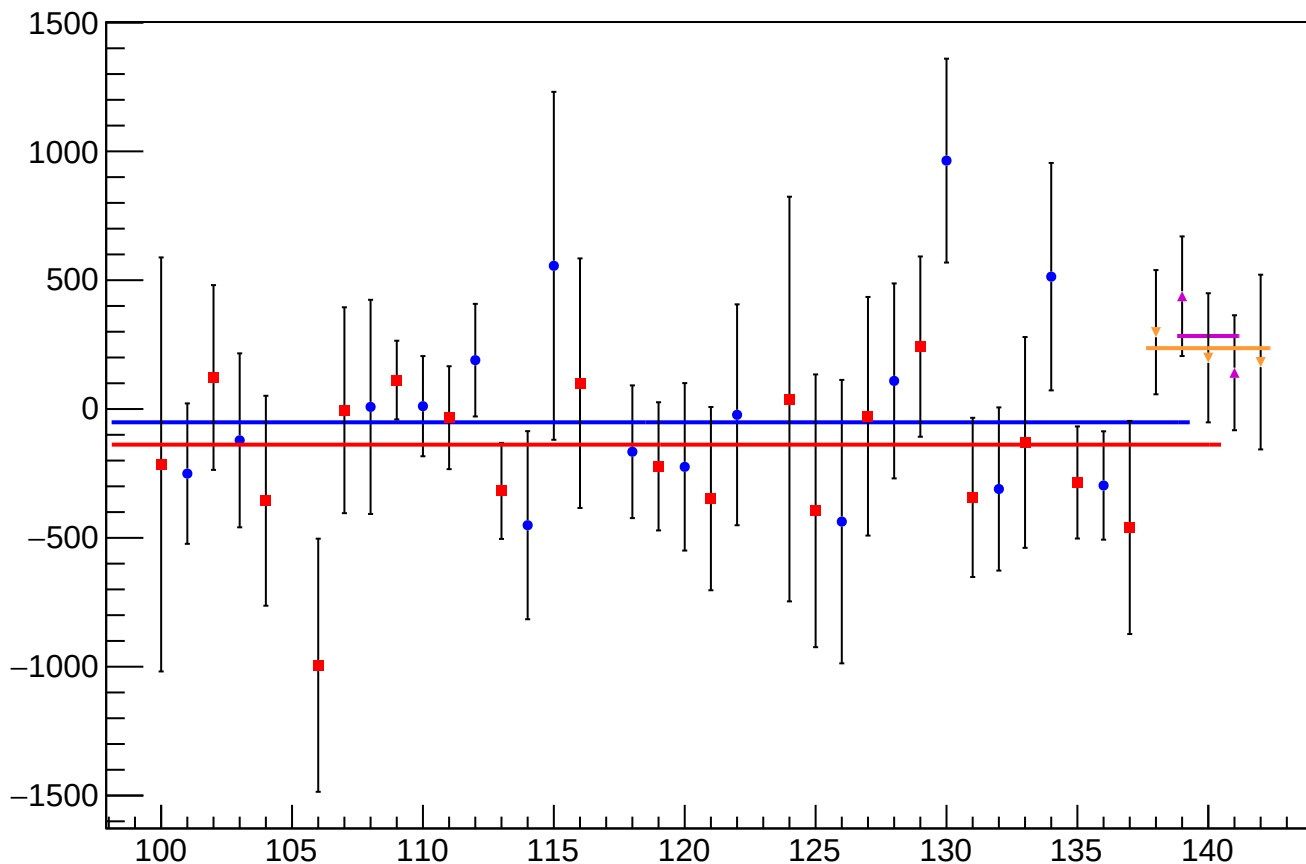
Right: 22.495+/-0.004 χ^2/NDF : 31619.9/34

In: 22.419+/-0.005 χ^2/NDF : 17629.5/17

Out: 22.395+/-0.005 χ^2/NDF : 16410.2/21

All: 22.406+/-0.004 χ^2/NDF : 34050.3/39

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -51.492 ± 76.798 $\chi^2/\text{NDF}: 15.3/15$

Left Out: 236.294 ± 154.596 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -138.184 ± 68.625 $\chi^2/\text{NDF}: 11.6/18$

Left In: 283.409 ± 160.860 $\chi^2/\text{NDF}: 0.9/1$

Left: 258.917 ± 111.465 $\chi^2/\text{NDF}: 1.0/4$

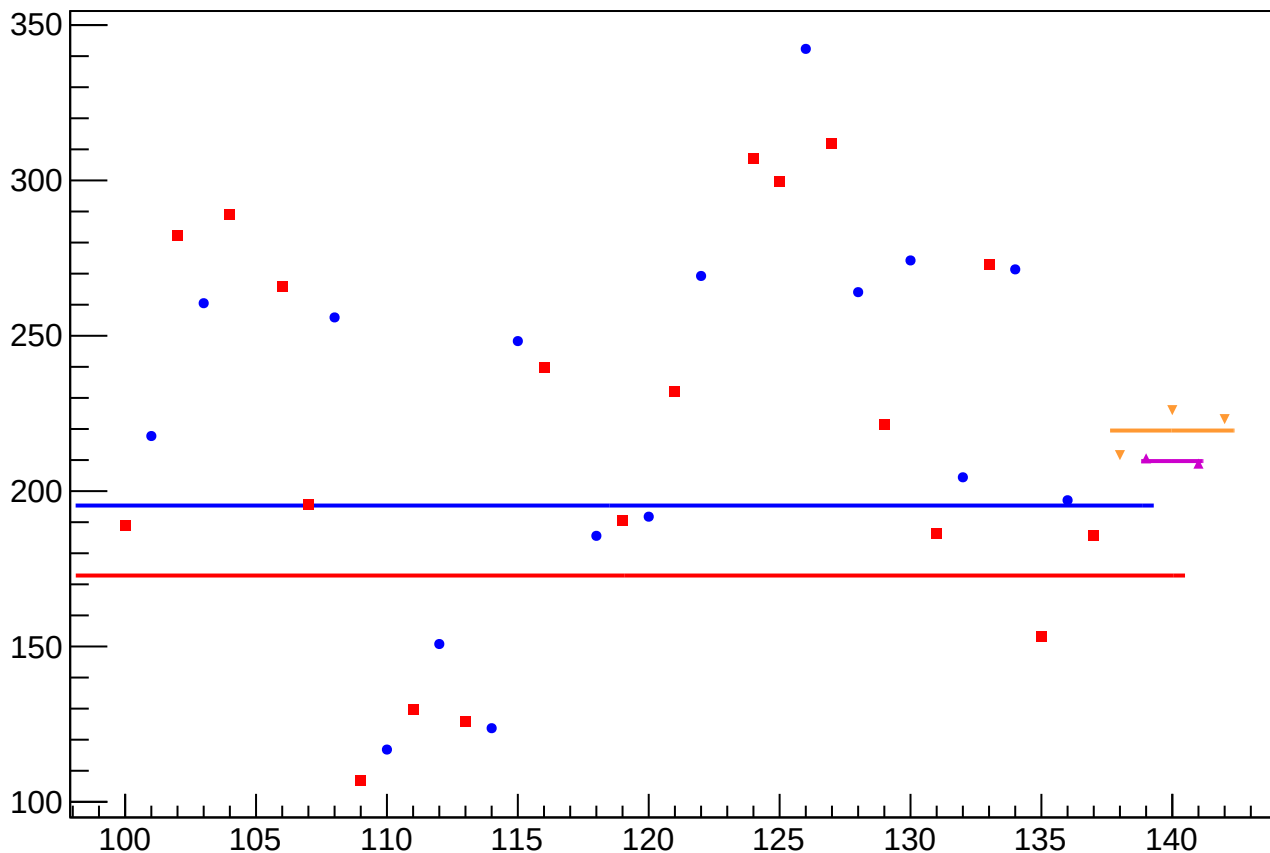
Right: -99.695 ± 51.171 $\chi^2/\text{NDF}: 27.7/34$

In: 10.673 ± 69.305 $\chi^2/\text{NDF}: 19.7/17$

Out: -76.541 ± 62.723 $\chi^2/\text{NDF}: 16.6/21$

All: -37.271 ± 46.505 $\chi^2/\text{NDF}: 37.2/39$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.361 $\pm$ 0.054 χ^2 /NDF: 1041432.1/15

Left Out: 219.502 $\pm$ 0.109 χ^2 /NDF:3762.5/2

Right Out: 172.837 $\pm$ 0.049 χ^2 /NDF: 1659430.2/18

Left In: 209.674 $\pm$ 0.114 χ^2 /NDF:56.0/1

Left: 214.783 $\pm$ 0.079 χ^2 /NDF: 7699.9/4

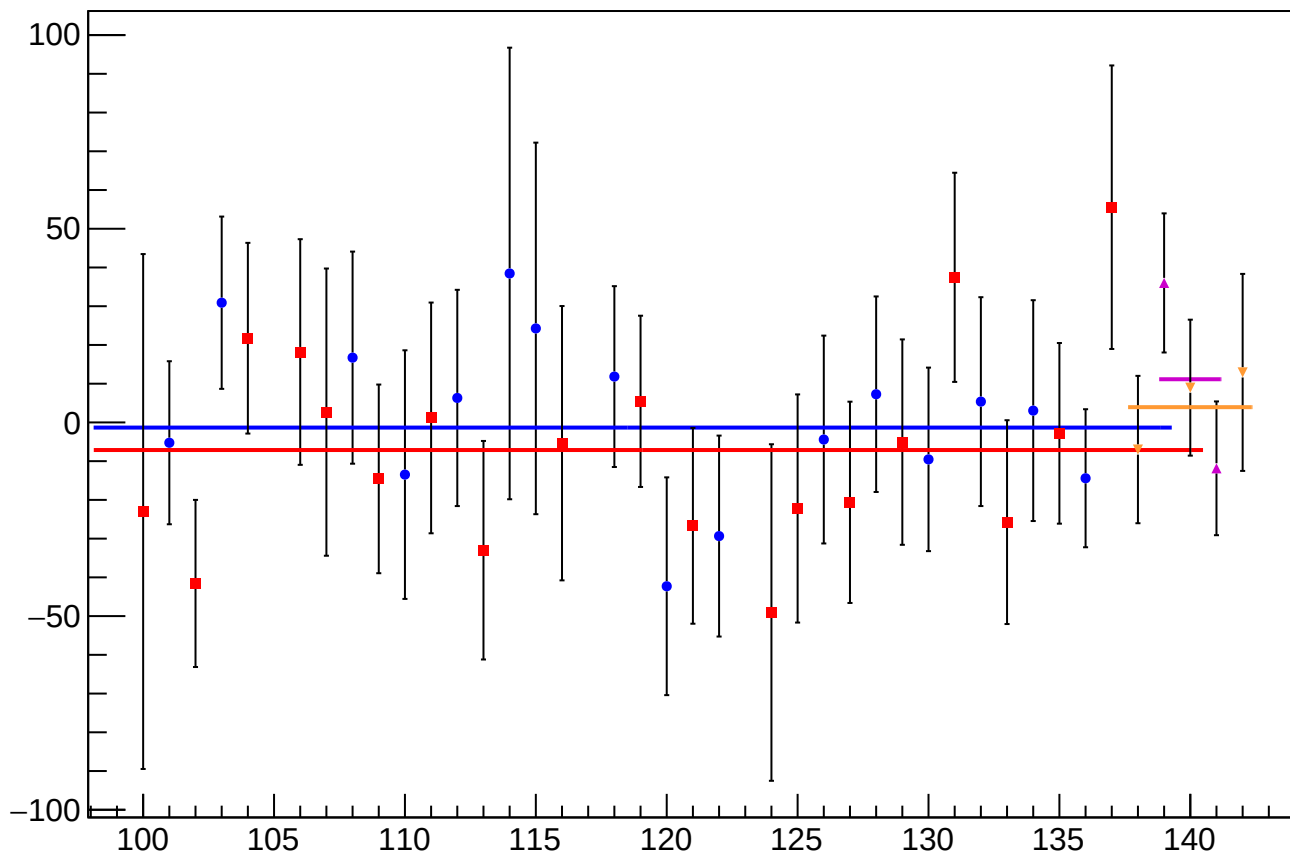
Right: 182.837 $\pm$ 0.036 χ^2 /NDF: 2796519.3/34

In: 198.018 $\pm$ 0.049 χ^2 /NDF:1054382.3/17

Out: 180.518 $\pm$ 0.044 χ^2 /NDF:1815425.9/21

All: 188.398 $\pm$ 0.033 χ^2 /NDF: 2939903.6/39

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.331 ± 6.499 χ^2/NDF : 8.0/15

Left Out: 3.939 ± 11.504 χ^2/NDF : 0.5/2

Right Out: -7.126 ± 6.402 χ^2/NDF : 14.4/18

Left In: 11.147 ± 12.447 χ^2/NDF : 3.7/1

Left: 7.260 ± 8.448 χ^2/NDF : 4.4/4

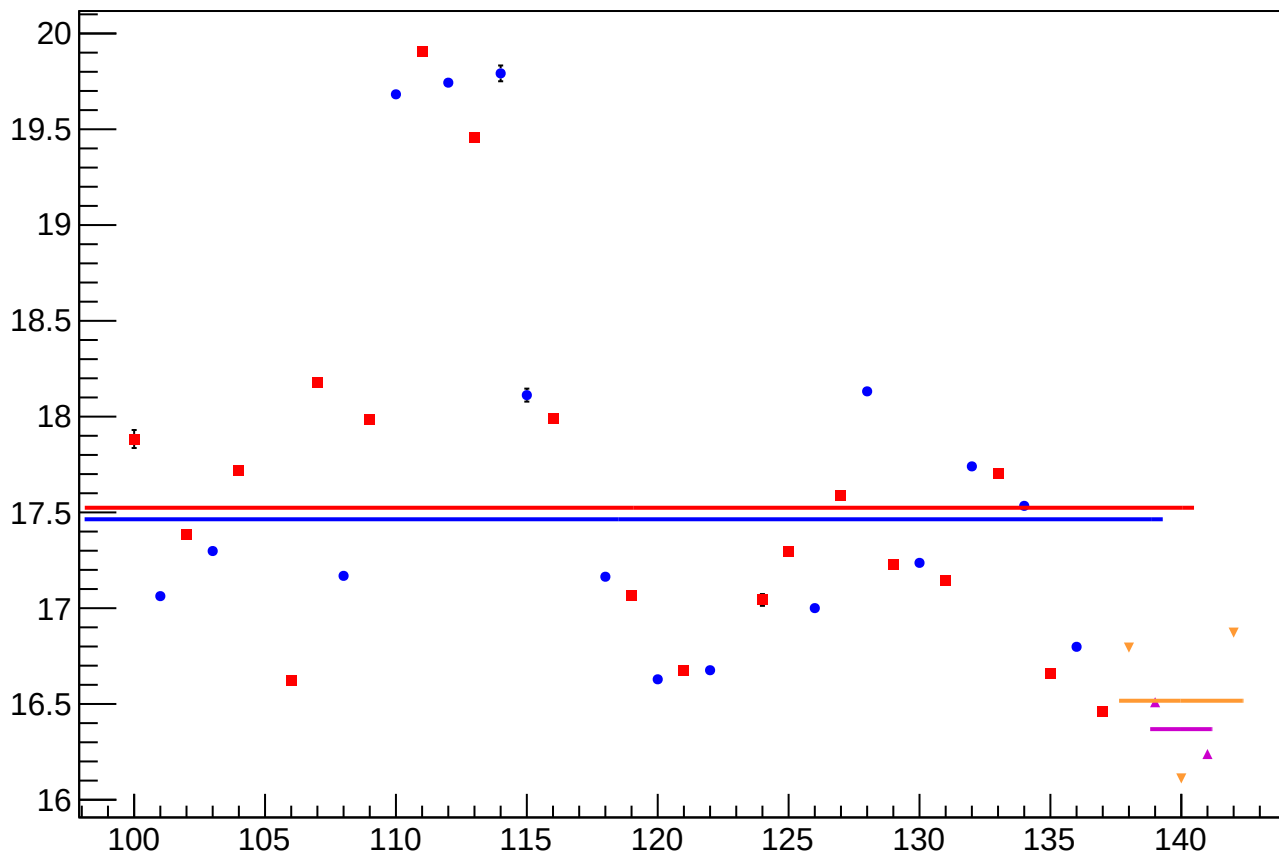
Right: -4.272 ± 4.561 χ^2/NDF : 22.8/34

In: 1.342 ± 5.761 χ^2/NDF : 12.5/17

Out: -4.510 ± 5.594 χ^2/NDF : 15.7/21

All: -1.670 ± 4.013 χ^2/NDF : 28.7/39

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.464 $\pm$ 0.005 χ^2 /NDF: 36650.1/15

Left Out: 16.517 $\pm$ 0.008 χ^2 /NDF: 1883.9/2

Right Out: 17.524 $\pm$ 0.005 χ^2 /NDF: 34726.0/18

Left In: 16.369 $\pm$ 0.009 χ^2 /NDF: 235.5/1

Left: 16.449 $\pm$ 0.006 χ^2 /NDF: 2272.3/4

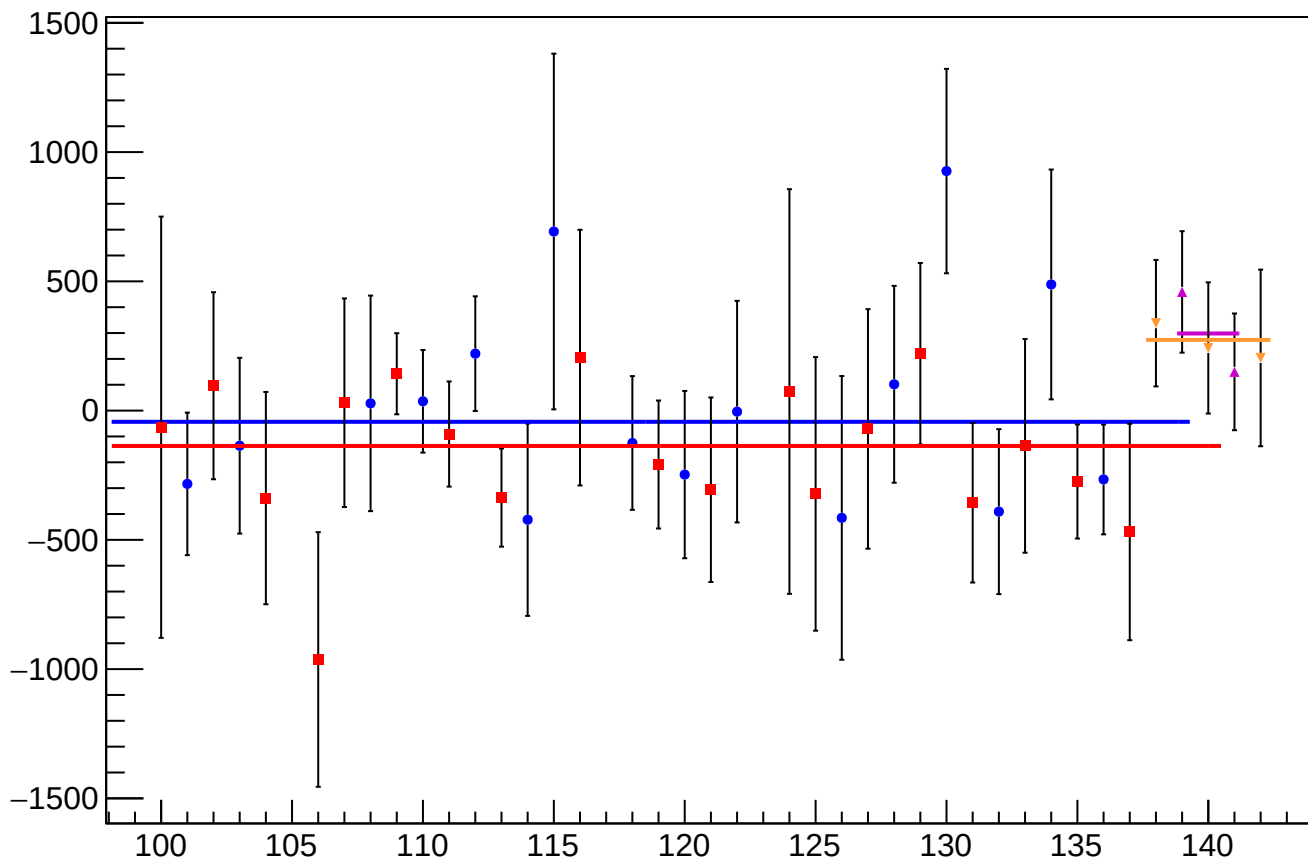
Right: 17.495 $\pm$ 0.003 χ^2 /NDF: 71463.1/34

In: 17.230 $\pm$ 0.004 χ^2 /NDF: 49059.1/17

Out: 17.286 $\pm$ 0.004 χ^2 /NDF: 48321.0/21

All: 17.259 $\pm$ 0.003 χ^2 /NDF: 97479.4/39

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -43.384+/-77.584 χ^2/NDF : 15.5/15

Left Out: 273.498+/-156.517 χ^2/NDF : 0.1/2

Right Out: -136.778+/-69.557 χ^2/NDF : 11.5/18

Left In: 298.354+/-162.753 χ^2/NDF : 0.9/1

Left: 285.441+/-112.815 χ^2/NDF : 1.0/4

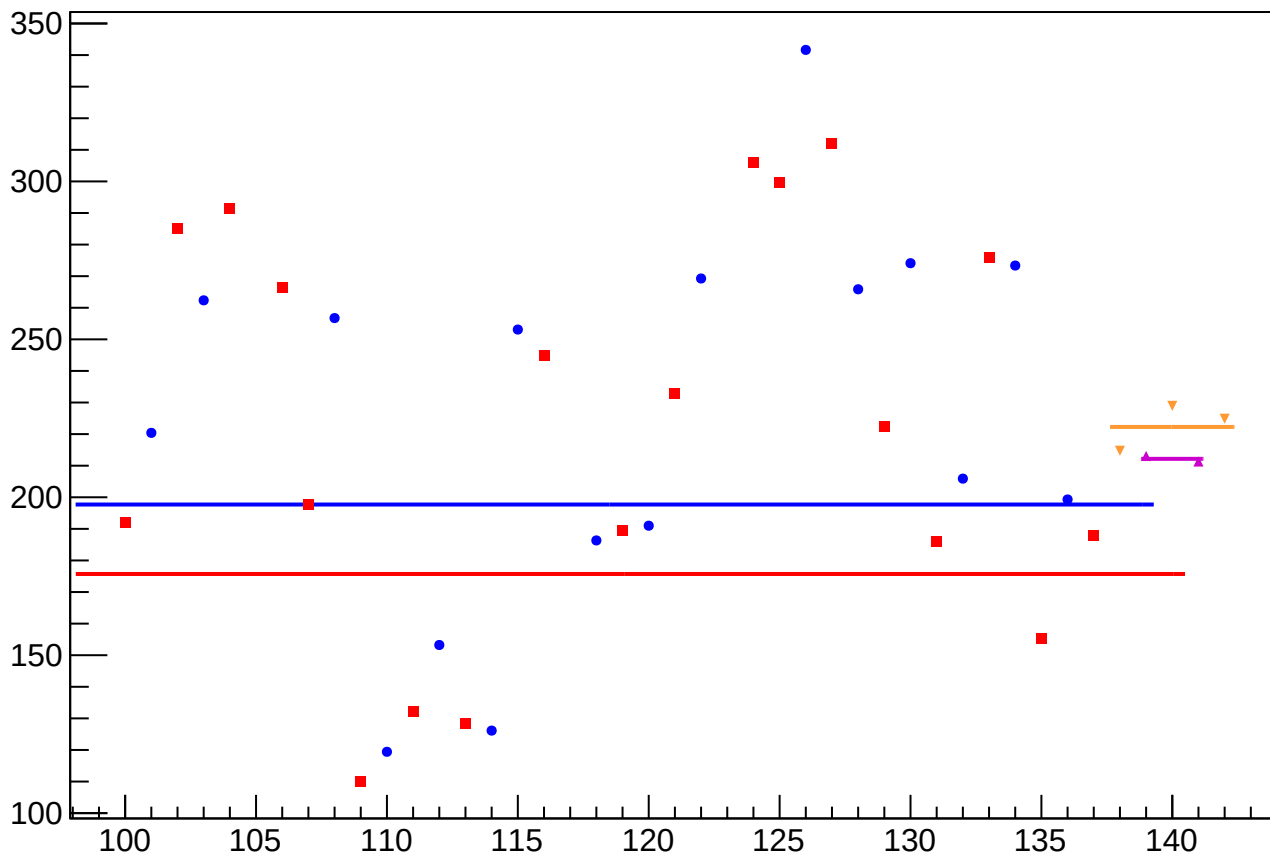
Right: -95.161+/-51.790 χ^2/NDF : 27.8/34

In: 19.894+/-70.034 χ^2/NDF : 19.9/17

Out: -69.114+/-63.563 χ^2/NDF : 17.4/21

All: -28.911+/-47.067 χ^2/NDF : 38.2/39

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.707 $\pm$ 0.055 χ^2 /NDF: 1000324.6/15

Left Out: 222.267 $\pm$ 0.111 χ^2 /NDF:3404.3/2

Right Out: 175.716 $\pm$ 0.049 χ^2 /NDF: 1590559.8/18

Left In: 212.169 $\pm$ 0.115 χ^2 /NDF:57.7/1

Left: 217.415 $\pm$ 0.080 χ^2 /NDF: 7461.8/4

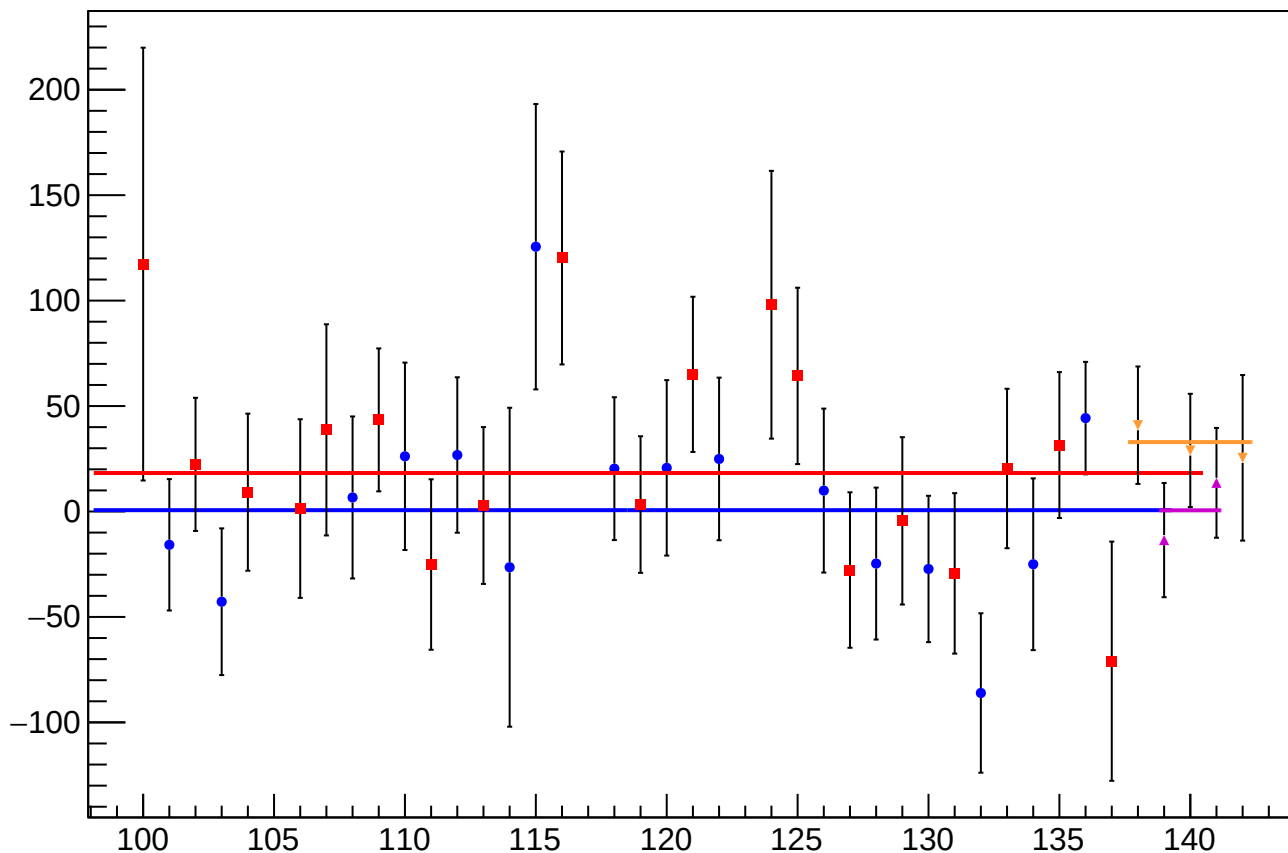
Right: 185.515 $\pm$ 0.037 χ^2 /NDF: 2679972.8/34

In: 200.385 $\pm$ 0.050 χ^2 /NDF:1013248.8/17

Out: 183.393 $\pm$ 0.045 χ^2 /NDF:1741701.1/21

All: 191.068 $\pm$ 0.033 χ^2 /NDF: 2819507.4/39

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.619 ± 9.421 $\chi^2/\text{NDF}: 16.7/15$

Left Out: 32.910 ± 17.344 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 18.248 ± 9.208 $\chi^2/\text{NDF}: 18.0/18$

Left In: 0.557 ± 18.770 $\chi^2/\text{NDF}: 0.5/1$

Left: 18.009 ± 12.738 $\chi^2/\text{NDF}: 2.3/4$

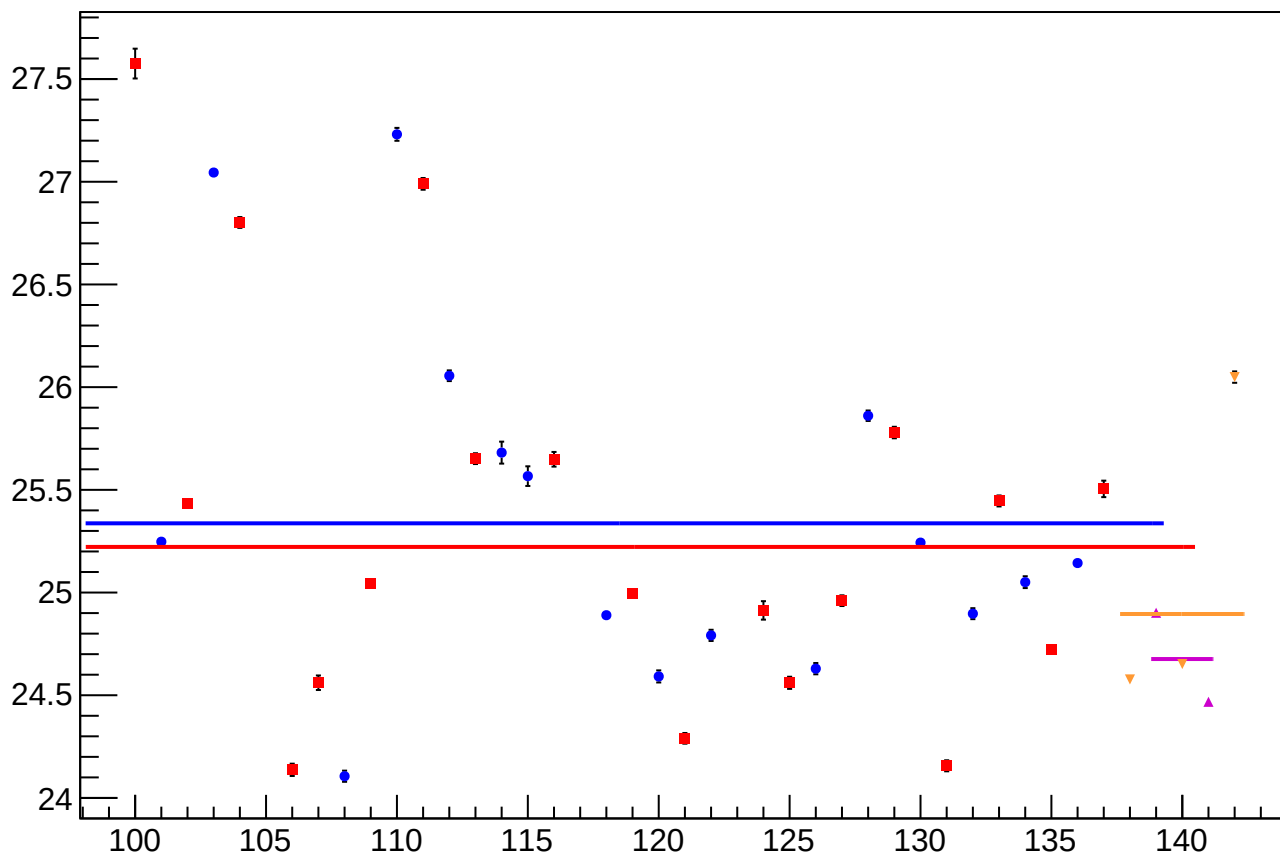
Right: 9.635 ± 6.585 $\chi^2/\text{NDF}: 36.5/34$

In: 0.607 ± 8.420 $\chi^2/\text{NDF}: 17.3/17$

Out: 21.472 ± 8.133 $\chi^2/\text{NDF}: 18.7/21$

All: 11.401 ± 5.850 $\chi^2/\text{NDF}: 39.1/39$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.337 ± 0.007 $\chi^2/\text{NDF}: 14315.0/15$

Left Out: 24.896 ± 0.012 $\chi^2/\text{NDF}: 2153.1/2$

Right Out: 25.222 ± 0.007 $\chi^2/\text{NDF}: 15224.4/18$

Left In: 24.676 ± 0.013 $\chi^2/\text{NDF}: 266.3/1$

Left: 24.795 ± 0.009 $\chi^2/\text{NDF}: 2566.6/4$

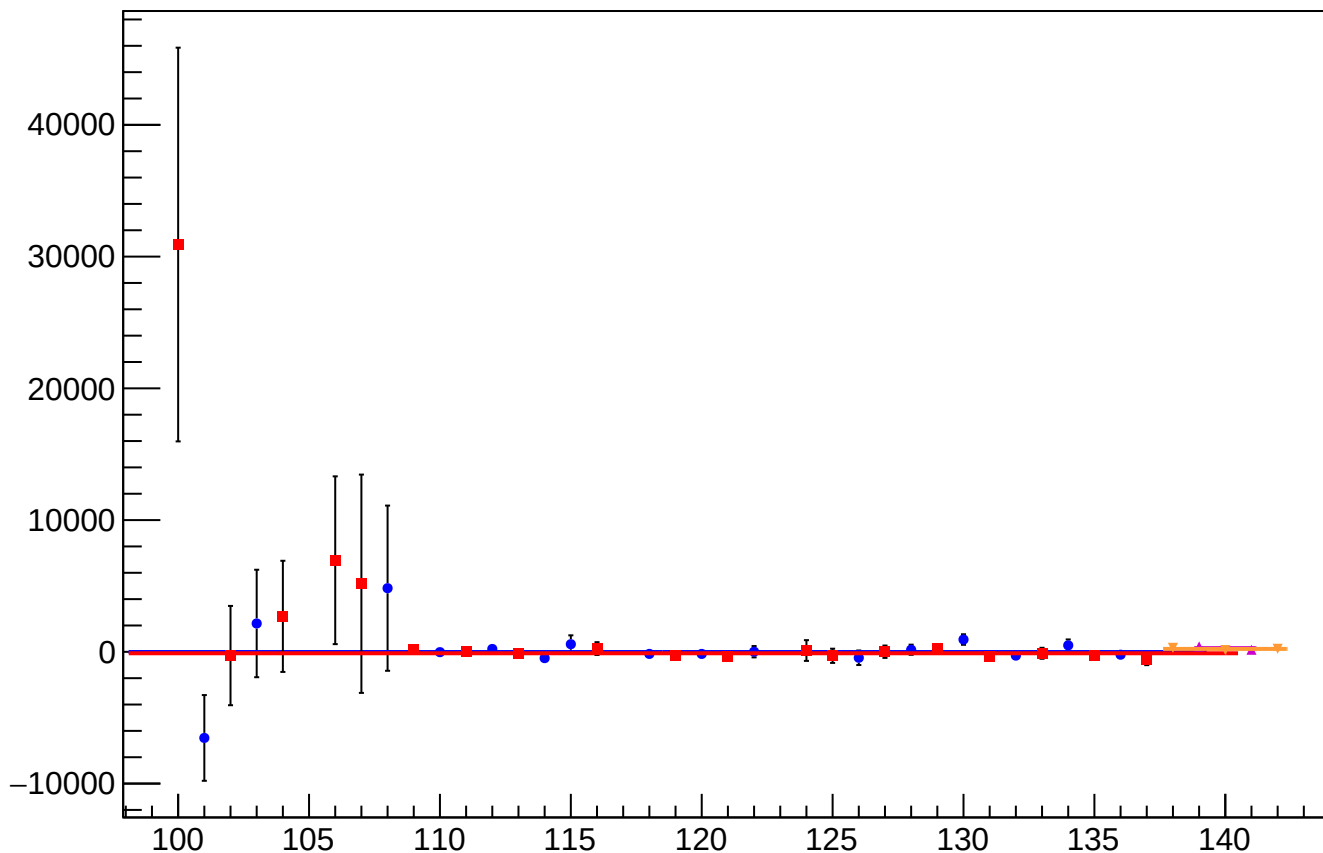
Right: 25.278 ± 0.005 $\chi^2/\text{NDF}: 29691.5/34$

In: 25.204 ± 0.006 $\chi^2/\text{NDF}: 16560.6/17$

Out: 25.150 ± 0.006 $\chi^2/\text{NDF}: 17930.8/21$

All: 25.176 ± 0.004 $\chi^2/\text{NDF}: 34533.5/39$

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -15.450+/-84.701 χ^2/NDF : 18.3/15

Left Out: 222.235+/-154.906 χ^2/NDF : 0.2/2

Right Out: -108.825+/-78.099 χ^2/NDF : 14.0/18

Left In: 282.019+/-159.884 χ^2/NDF : 0.6/1

Left: 251.182+/-111.253 χ^2/NDF : 0.9/4

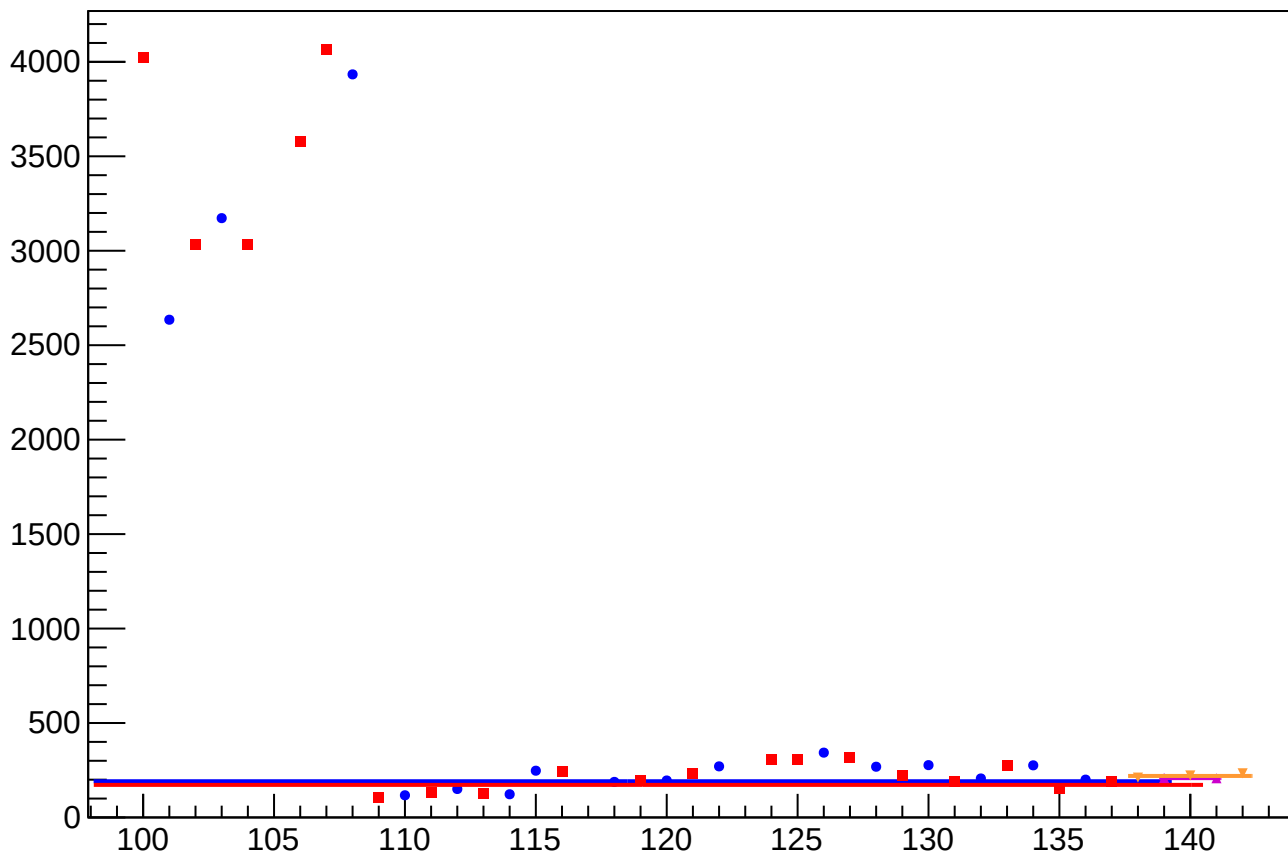
Right: -65.918+/-57.416 χ^2/NDF : 33.0/34

In: 49.740+/-74.847 χ^2/NDF : 21.6/17

Out: -41.730+/-69.737 χ^2/NDF : 17.9/21

All: 0.777+/-51.022 χ^2/NDF : 40.4/39

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.736 $\pm$ 0.060 χ^2 /NDF: 3821804.2/15

Left Out: 219.750 $\pm$ 0.110 χ^2 /NDF: 5968.2/2

Right Out: 172.462 $\pm$ 0.055 χ^2 /NDF: 4303129.4/18

Left In: 208.243 $\pm$ 0.113 χ^2 /NDF: 37.7/1

Left: 214.179 $\pm$ 0.079 χ^2 /NDF: 11349.2/4

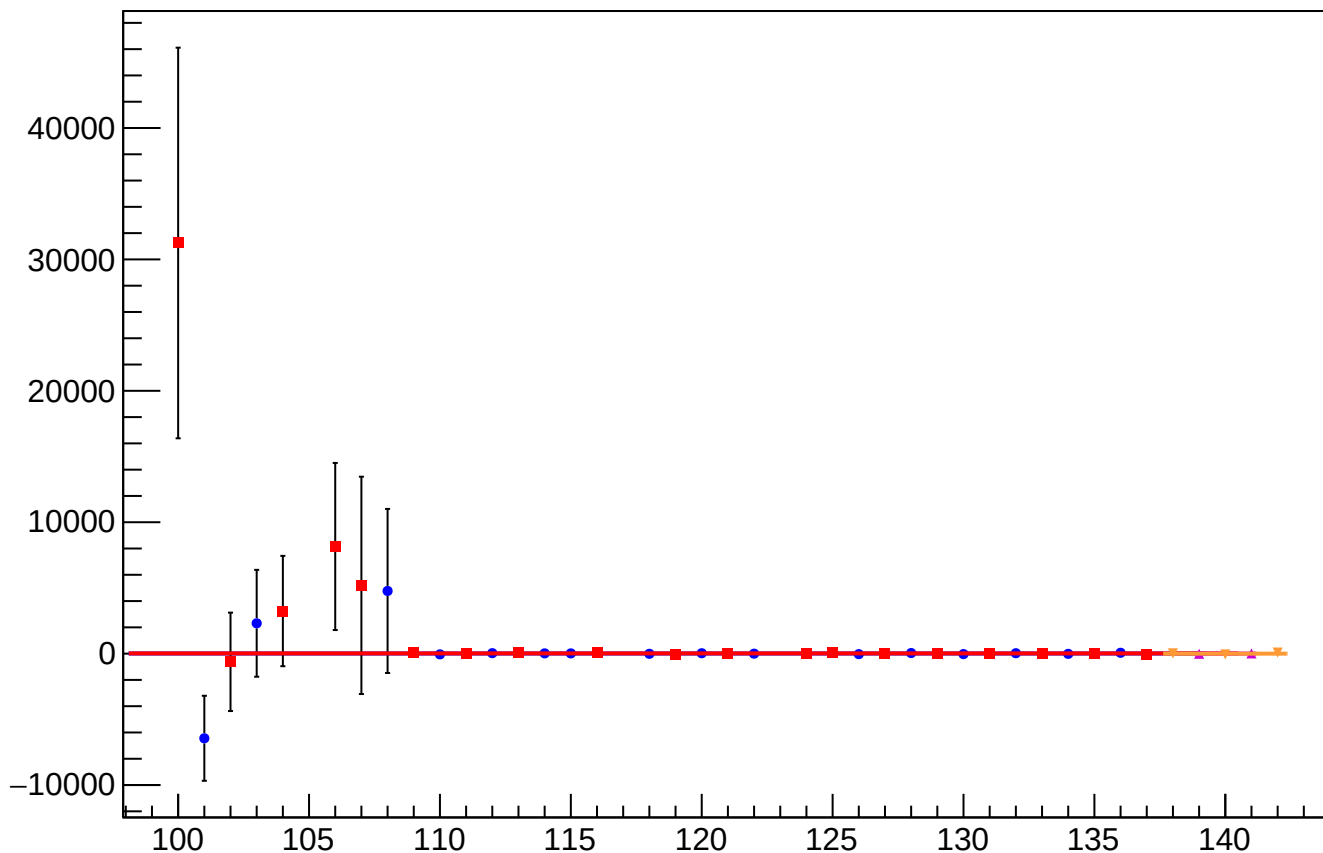
Right: 181.319 $\pm$ 0.041 χ^2 /NDF: 8180903.6/34

In: 195.353 $\pm$ 0.053 χ^2 /NDF: 3838490.2/17

Out: 182.046 $\pm$ 0.049 χ^2 /NDF: 4457701.5/21

All: 188.230 $\pm$ 0.036 χ^2 /NDF: 8330033.4/39

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.576+/-11.685 χ^2/NDF : 16.0/15

Left Out: -2.130+/-19.915 χ^2/NDF : 7.3/2

Right Out: 18.105+/-11.805 χ^2/NDF : 24.8/18

Left In: 4.630+/-21.012 χ^2/NDF : 0.4/1

Left: 1.069+/-14.454 χ^2/NDF : 7.7/4

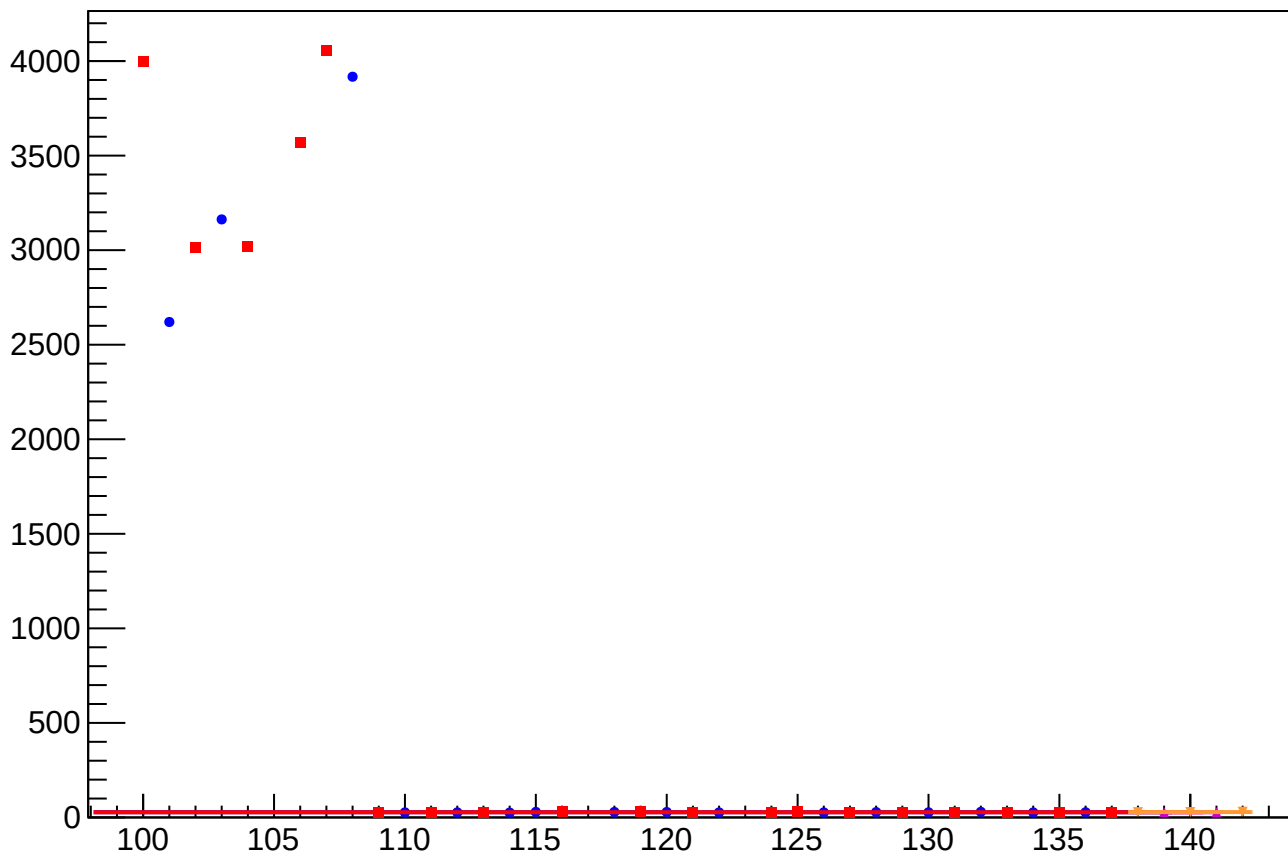
Right: 13.797+/-8.305 χ^2/NDF : 41.0/34

In: 8.408+/-10.212 χ^2/NDF : 16.4/17

Out: 12.843+/-10.155 χ^2/NDF : 32.8/21

All: 10.638+/-7.201 χ^2/NDF : 49.3/39

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.642 $\pm$ 0.008 χ^2 /NDF: 3265498.5/15

Left Out: 28.474 $\pm$ 0.014 χ^2 /NDF: 3492.5/2

Right Out: 27.535 $\pm$ 0.008 χ^2 /NDF: 3555229.4/18

Left In: 27.574 $\pm$ 0.015 χ^2 /NDF: 722.4/1

Left: 28.048 $\pm$ 0.010 χ^2 /NDF: 6147.8/4

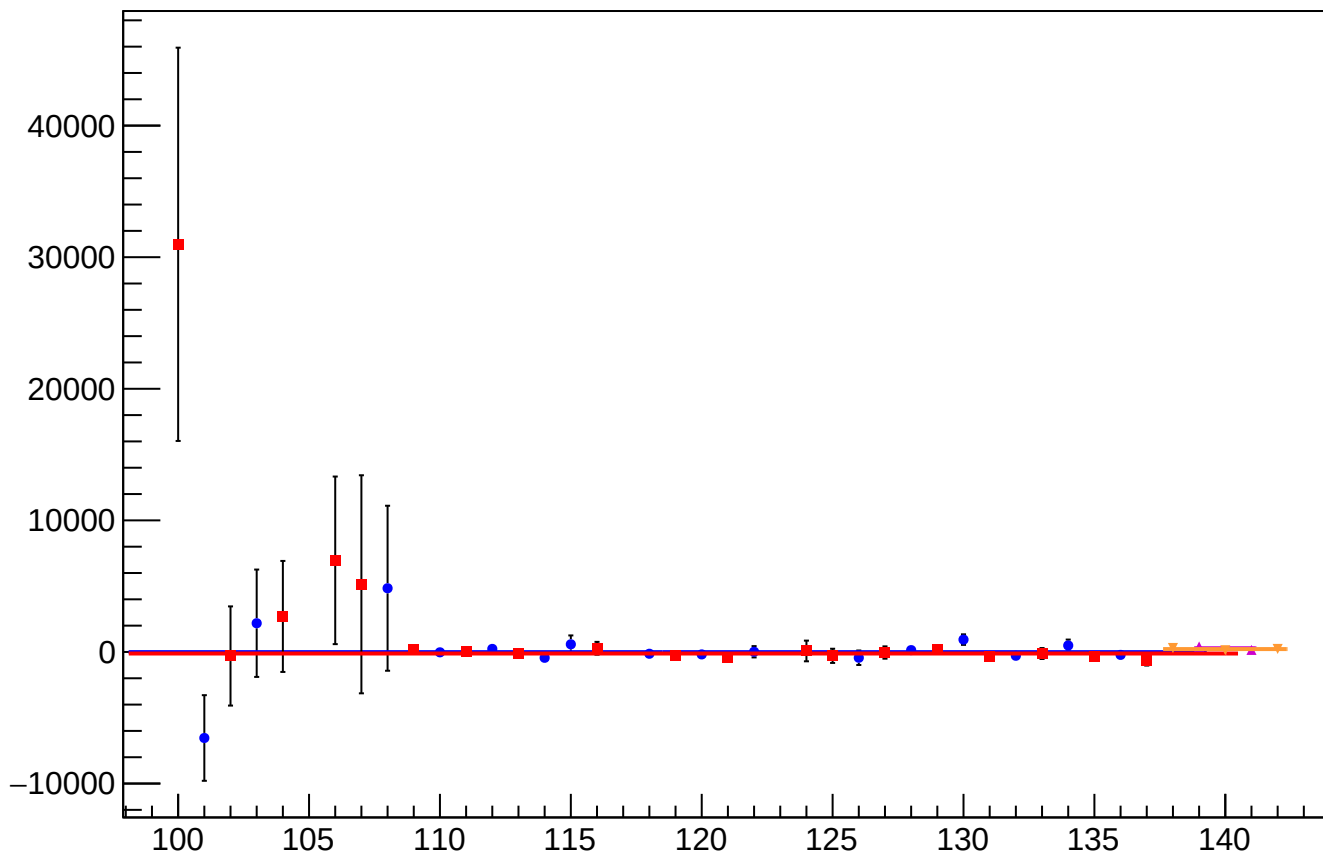
Right: 27.589 $\pm$ 0.006 χ^2 /NDF: 6820810.9/34

In: 27.626 $\pm$ 0.007 χ^2 /NDF: 3266236.8/17

Out: 27.779 $\pm$ 0.007 χ^2 /NDF: 3562012.0/21

All: 27.703 $\pm$ 0.005 χ^2 /NDF: 6828475.2/39

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -13.160 $\pm$ 84.454 χ^2 /NDF: 18.3/15

Left Out: 219.281 $\pm$ 154.523 χ^2 /NDF:0.3/2

Right Out: -118.063 $\pm$ 77.862 χ^2 /NDF: 14.4/18

Left In: 282.328 $\pm$ 159.537 χ^2 /NDF:0.7/1

Left: 249.798 $\pm$ 110.995 χ^2 /NDF: 1.0/4

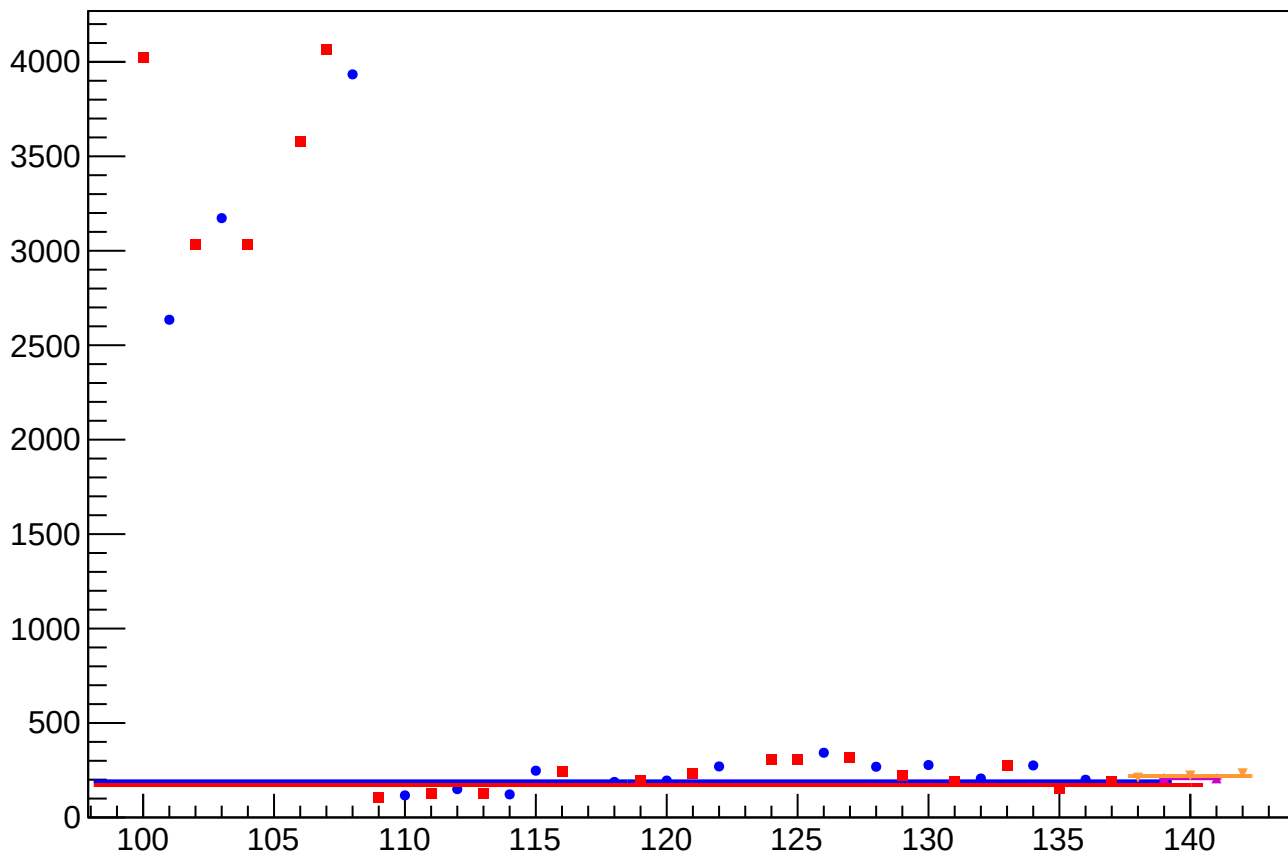
Right: -69.865 $\pm$ 57.246 χ^2 /NDF: 33.6/34

In: 51.519 $\pm$ 74.641 χ^2 /NDF:21.7/17

Out: -49.754 $\pm$ 69.534 χ^2 /NDF:18.5/21

All: -2.700 $\pm$ 50.878 χ^2 /NDF: 41.1/39

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.070 $\pm$ 0.060 χ^2 /NDF: 3833952.4/15

Left Out: 219.203 $\pm$ 0.109 χ^2 /NDF:6074.1/2

Right Out: 171.835 $\pm$ 0.055 χ^2 /NDF: 4314721.8/18

Left In: 207.790 $\pm$ 0.113 χ^2 /NDF:34.7/1

Left: 213.679 $\pm$ 0.078 χ^2 /NDF: 11389.9/4

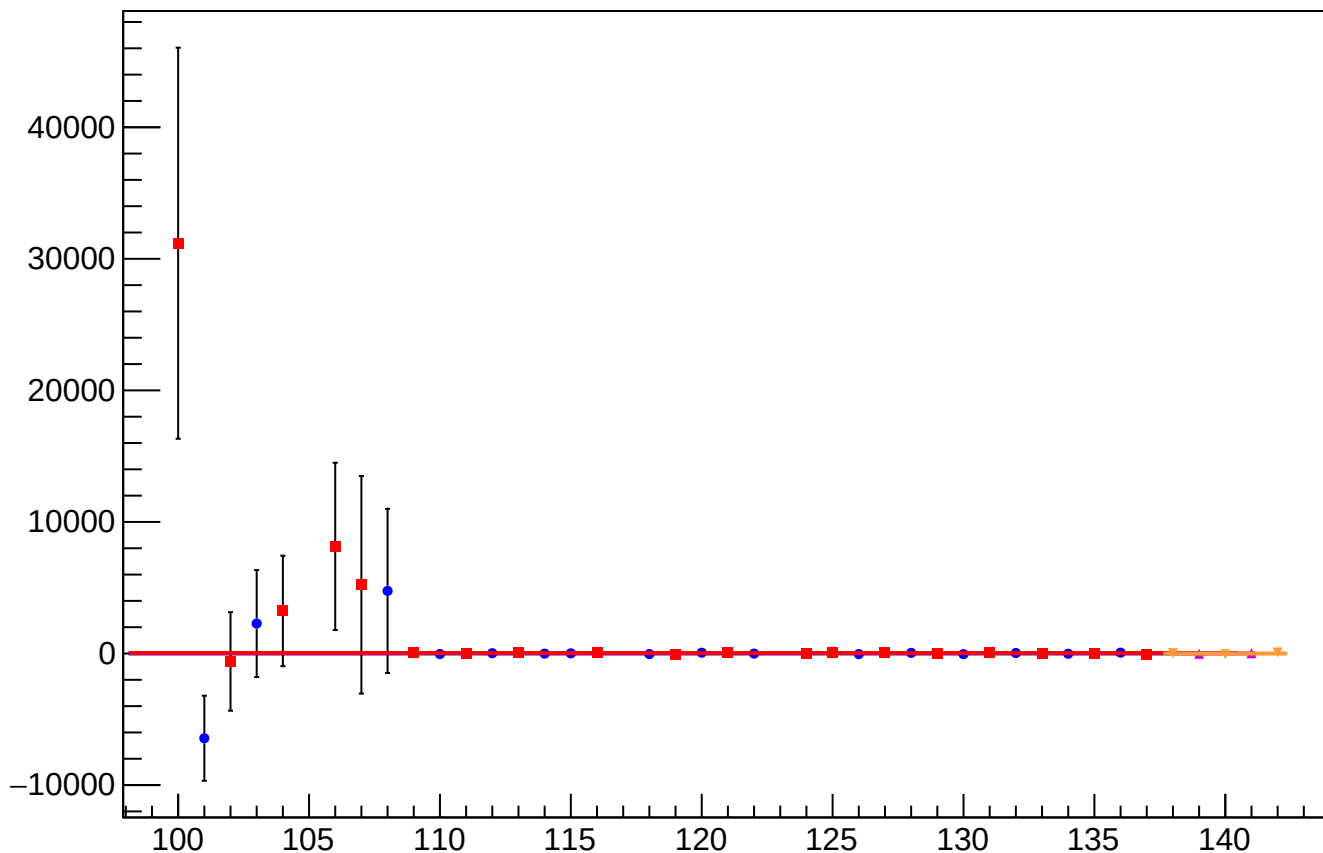
Right: 180.673 $\pm$ 0.040 χ^2 /NDF: 8204752.1/34

In: 194.730 $\pm$ 0.053 χ^2 /NDF:3851147.2/17

Out: 181.427 $\pm$ 0.049 χ^2 /NDF:4470680.0/21

All: 187.608 $\pm$ 0.036 χ^2 /NDF: 8355840.2/39

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.490 $\pm$ 11.764 χ^2 /NDF: 18.3/15

Left Out: -2.113 $\pm$ 20.013 χ^2 /NDF:7.0/2

Right Out: 30.962 $\pm$ 11.902 χ^2 /NDF: 19.9/18

Left In: 5.222 $\pm$ 21.079 χ^2 /NDF:0.9/1

Left: 1.364 $\pm$ 14.513 χ^2 /NDF: 7.9/4

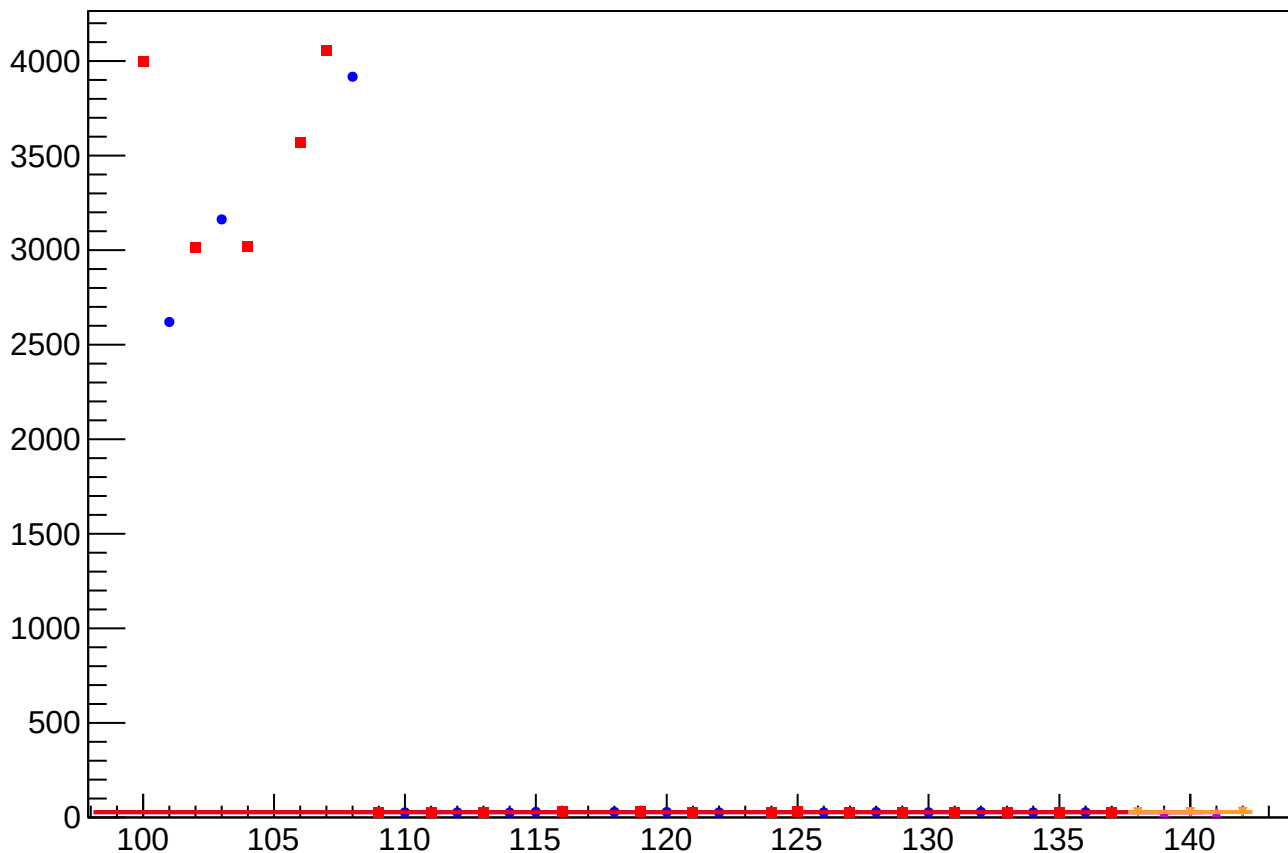
Right: 18.584 $\pm$ 8.367 χ^2 /NDF: 40.3/34

In: 6.189 $\pm$ 10.273 χ^2 /NDF:19.2/17

Out: 22.321 $\pm$ 10.229 χ^2 /NDF:28.9/21

All: 14.289 $\pm$ 7.248 χ^2 /NDF: 49.3/39

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.825+/-0.008 χ^2 /NDF: 3265895.3/15

Left Out: 28.616+/-0.014 χ^2 /NDF: 3175.1/2

Right Out: 27.754+/-0.008 χ^2 /NDF: 3558676.9/18

Left In: 27.662+/-0.015 χ^2 /NDF: 913.0/1

Left: 28.164+/-0.010 χ^2 /NDF: 6243.8/4

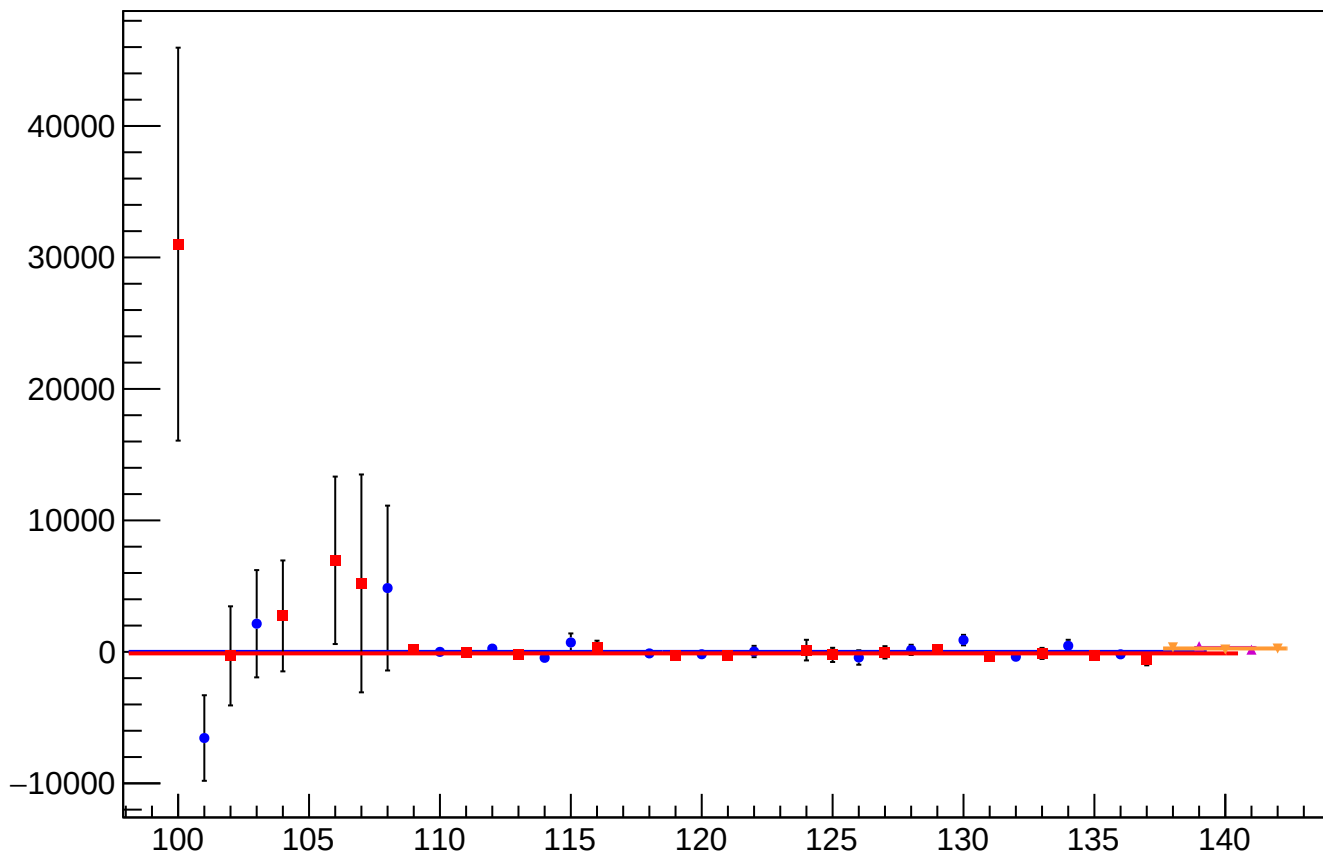
Right: 27.790+/-0.006 χ^2 /NDF: 6824608.5/34

In: 27.786+/-0.007 χ^2 /NDF: 3266899.6/17

Out: 27.979+/-0.007 χ^2 /NDF: 3564595.9/21

All: 27.883+/-0.005 χ^2 /NDF: 6831849.1/39

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -2.795 ± 85.508 χ^2/NDF : 18.2/15

Left Out: 258.724 ± 156.798 χ^2/NDF : 0.2/2

Right Out: -115.753 ± 78.952 χ^2/NDF : 13.8/18

Left In: 296.721 ± 161.722 χ^2/NDF : 0.7/1

Left: 277.135 ± 112.573 χ^2/NDF : 0.9/4

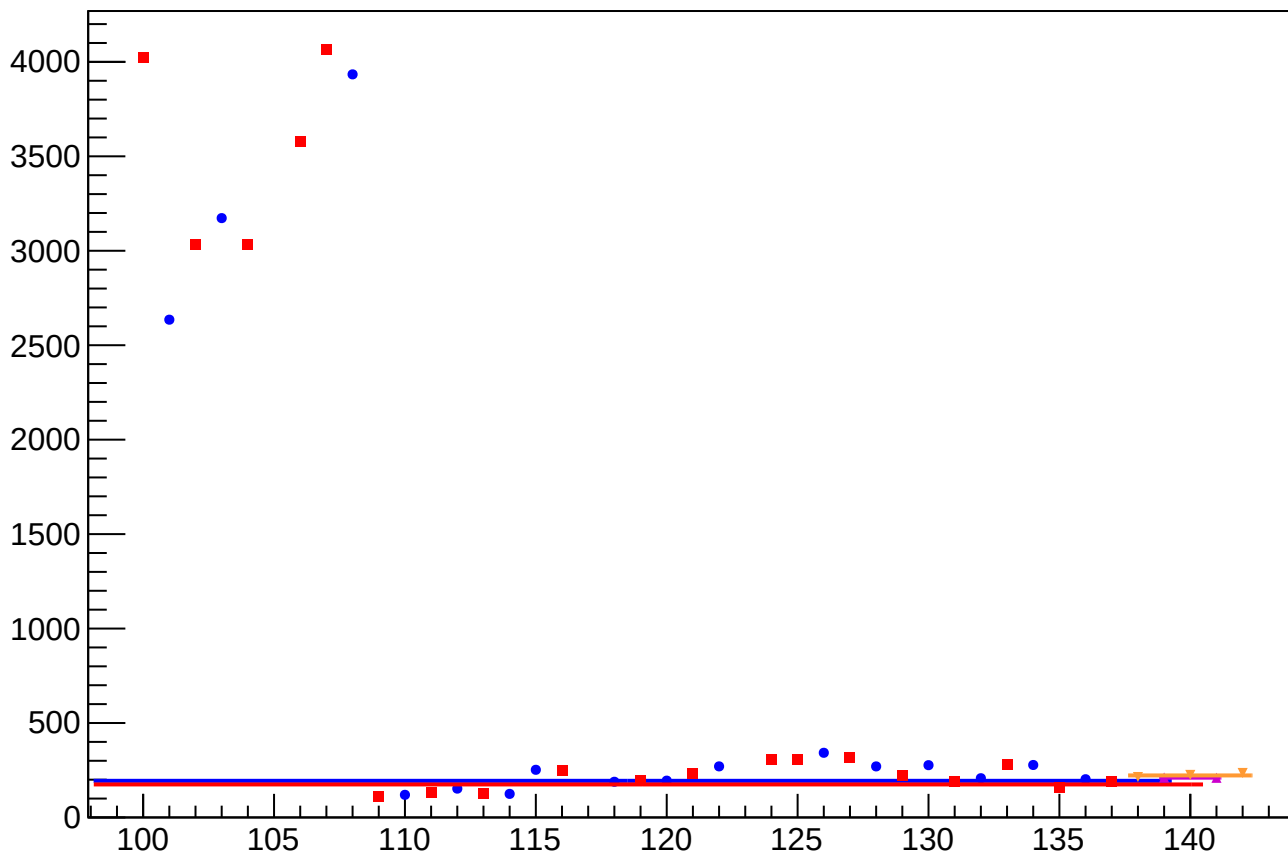
Right: -63.770 ± 58.007 χ^2/NDF : 33.0/34

In: 62.644 ± 75.592 χ^2/NDF : 21.6/17

Out: -40.011 ± 70.517 χ^2/NDF : 18.6/21

All: 7.755 ± 51.564 χ^2/NDF : 41.1/39

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.946+/-0.060 χ^2/NDF : 3784467.5/15

Left Out: 222.478+/-0.111 χ^2/NDF :5310.9/2

Right Out: 174.779+/-0.056 χ^2/NDF : 4259323.6/18

Left In: 210.667+/-0.114 χ^2/NDF :38.8/1

Left: 216.755+/-0.080 χ^2/NDF : 10848.0/4

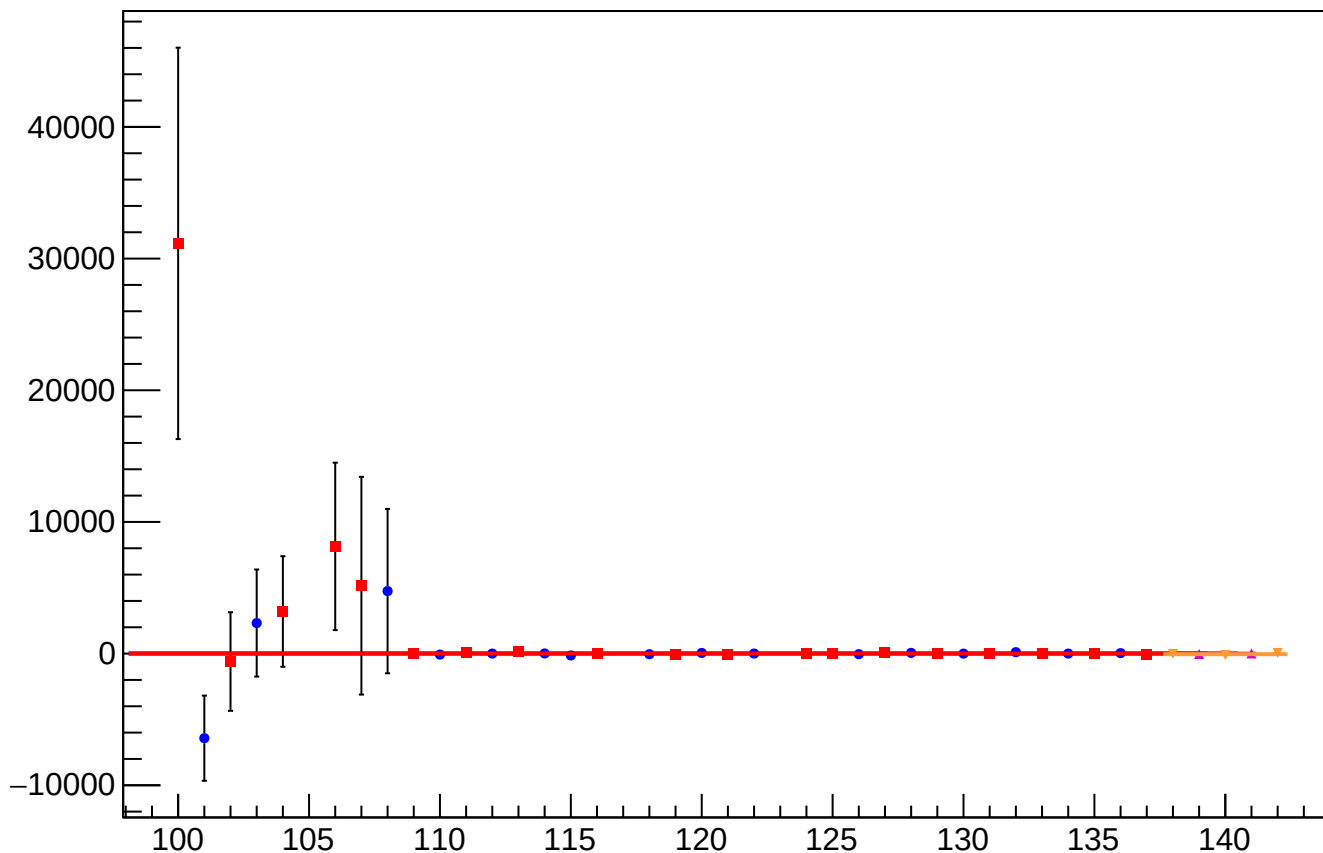
Right: 183.600+/-0.041 χ^2/NDF : 8098034.9/34

In: 197.600+/-0.053 χ^2/NDF :3801215.0/17

Out: 184.427+/-0.050 χ^2/NDF :4412278.3/21

All: 190.556+/-0.036 χ^2/NDF : 8245966.3/39

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.660+/-14.306 χ^2/NDF : 17.5/15

Left Out: -44.597+/-24.138 χ^2/NDF : 5.7/2

Right Out: 10.003+/-14.433 χ^2/NDF : 23.4/18

Left In: -6.341+/-25.719 χ^2/NDF : 0.8/1

Left: -26.681+/-17.601 χ^2/NDF : 7.7/4

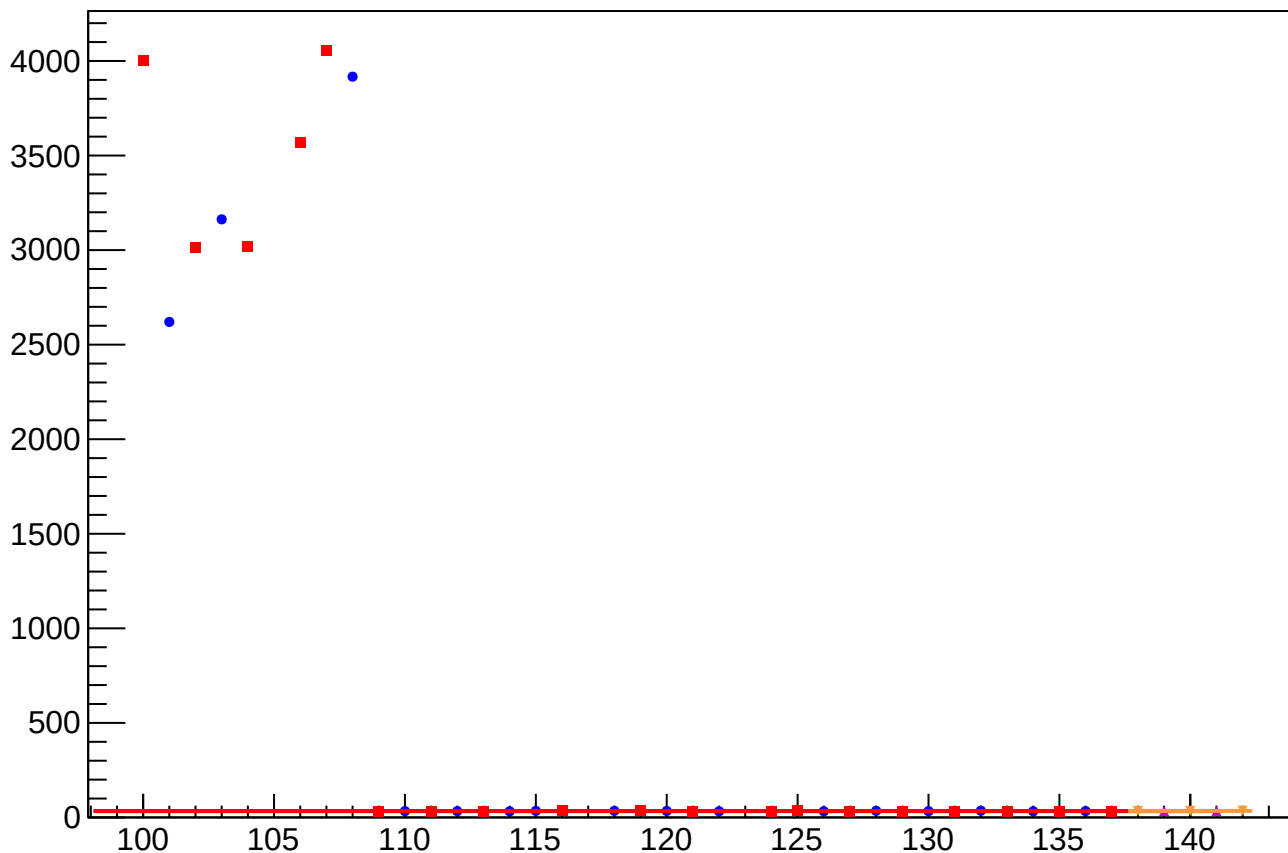
Right: 7.813+/-10.160 χ^2/NDF : 40.9/34

In: 2.825+/-12.502 χ^2/NDF : 18.4/17

Out: -4.376+/-12.387 χ^2/NDF : 32.9/21

All: -0.809+/-8.799 χ^2/NDF : 51.5/39

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.899+/-0.010 χ^2/NDF : 3244382.4/15

Left Out: 34.570+/-0.017 χ^2/NDF :1408.8/2

Right Out: 33.726+/-0.010 χ^2/NDF : 3526463.8/18

Left In: 33.785+/-0.018 χ^2/NDF :318.8/1

Left: 34.202+/-0.012 χ^2/NDF : 2717.2/4

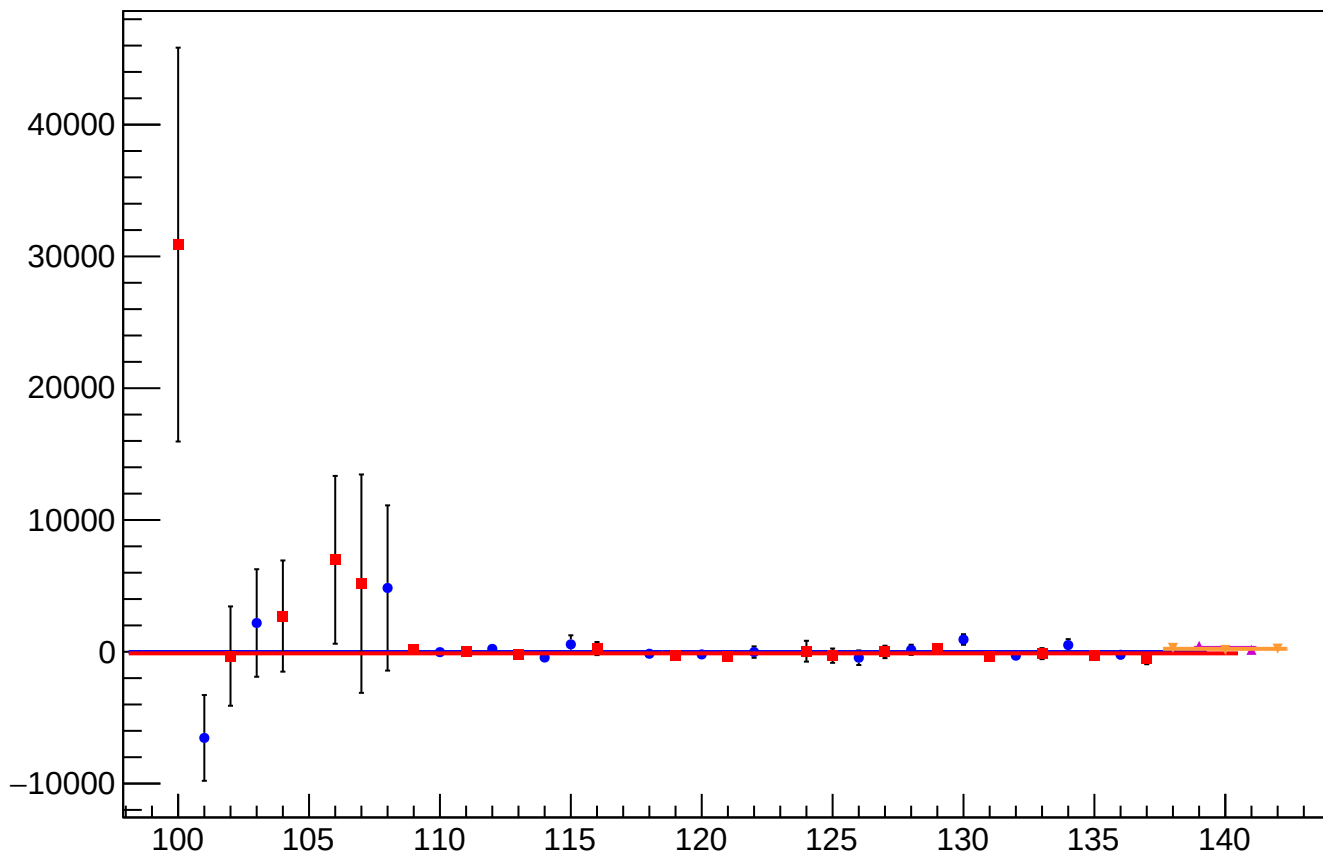
Right: 33.814+/-0.007 χ^2/NDF : 6770991.8/34

In: 33.872+/-0.009 χ^2/NDF :3244731.4/17

Out: 33.948+/-0.009 χ^2/NDF :3529672.1/21

All: 33.911+/-0.006 χ^2/NDF : 6774440.6/39

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -19.522 ± 85.063 χ^2/NDF : 18.2/15

Left Out: 223.408 ± 155.322 χ^2/NDF : 0.2/2

Right Out: -119.922 ± 78.455 χ^2/NDF : 13.3/18

Left In: 293.298 ± 160.466 χ^2/NDF : 0.8/1

Left: 257.215 ± 111.603 χ^2/NDF : 1.2/4

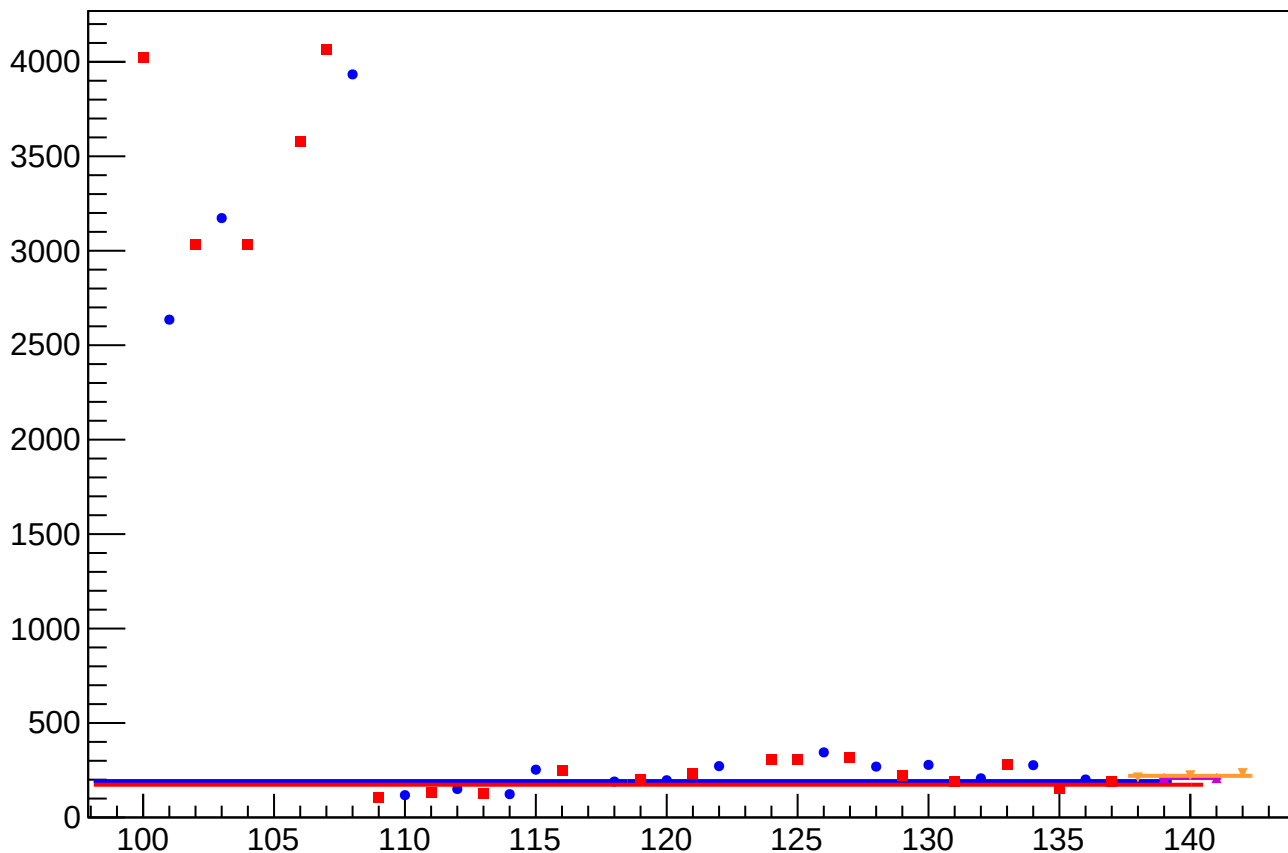
Right: -73.773 ± 57.671 χ^2/NDF : 32.2/34

In: 49.100 ± 75.156 χ^2/NDF : 22.0/17

Out: -50.132 ± 70.029 χ^2/NDF : 17.4/21

All: -4.016 ± 51.235 χ^2/NDF : 40.3/39

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.560 $\pm$ 0.060 χ^2 /NDF: 3822789.1/15

Left Out: 220.339 $\pm$ 0.110 χ^2 /NDF:6082.2/2

Right Out: 173.249 $\pm$ 0.055 χ^2 /NDF: 4307420.2/18

Left In: 209.007 $\pm$ 0.113 χ^2 /NDF:27.7/1

Left: 214.858 $\pm$ 0.079 χ^2 /NDF: 11259.7/4

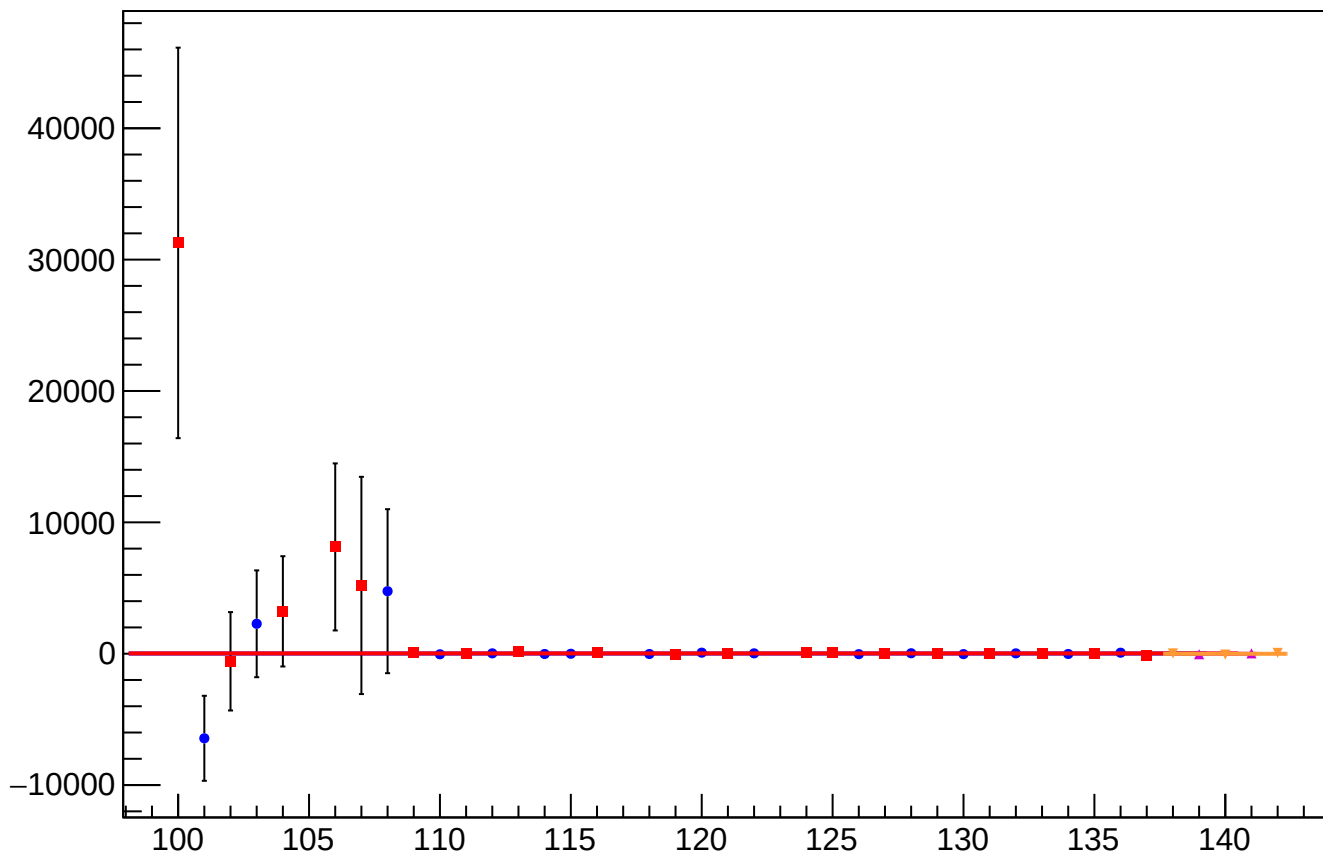
Right: 182.125 $\pm$ 0.041 χ^2 /NDF: 8185907.1/34

In: 196.168 $\pm$ 0.053 χ^2 /NDF:3839218.6/17

Out: 182.821 $\pm$ 0.050 χ^2 /NDF:4459969.2/21

All: 189.024 $\pm$ 0.036 χ^2 /NDF: 8332949.8/39

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 13.713+/-13.062 χ^2/NDF : 15.5/15

Left Out: -6.849+/-21.840 χ^2/NDF : 5.9/2

Right Out: 23.230+/-13.181 χ^2/NDF : 28.7/18

Left In: -4.885+/-23.139 χ^2/NDF : 2.1/1

Left: -5.923+/-15.882 χ^2/NDF : 8.0/4

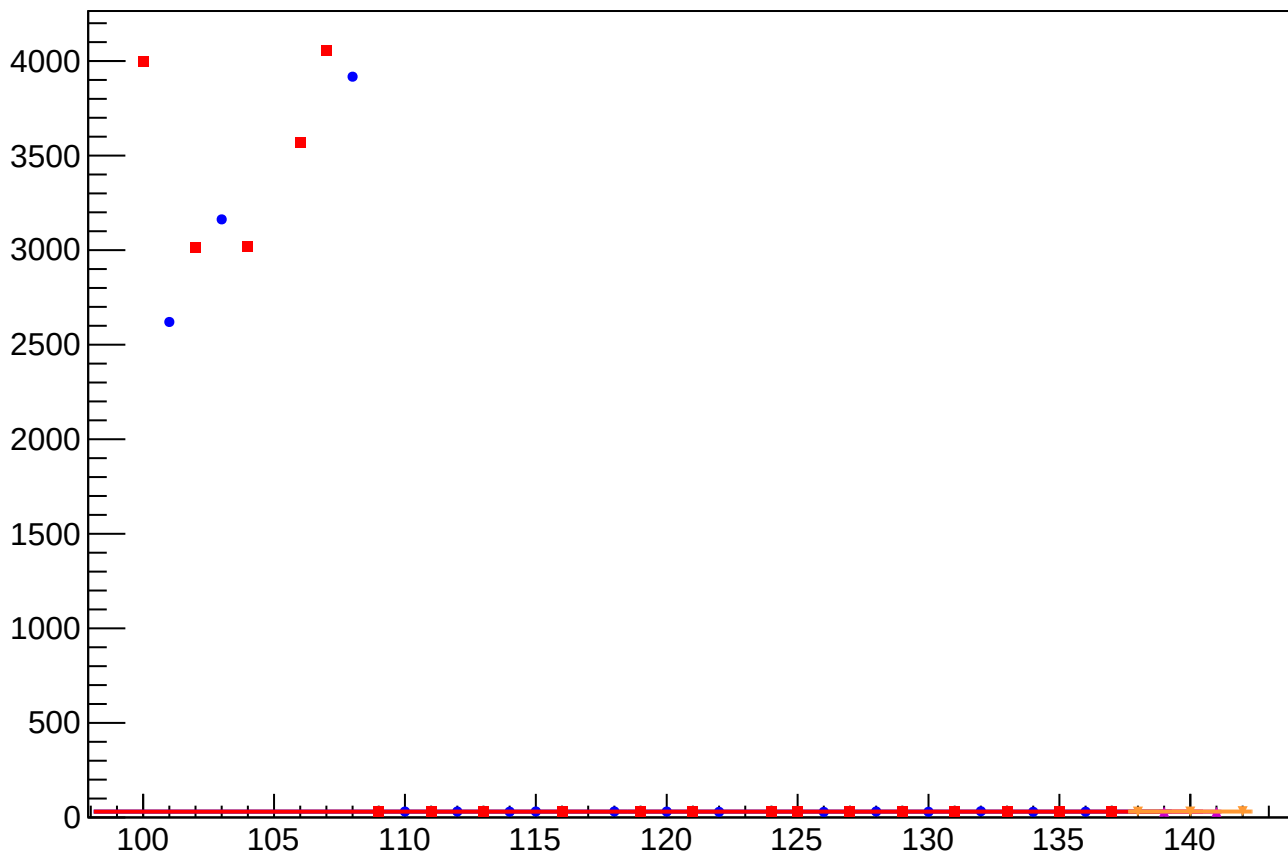
Right: 18.428+/-9.278 χ^2/NDF : 44.4/34

In: 9.219+/-11.375 χ^2/NDF : 18.1/17

Out: 15.199+/-11.285 χ^2/NDF : 35.9/21

All: 12.232+/-8.011 χ^2/NDF : 54.2/39

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.928+/-0.009 χ^2/NDF : 3252607.8/15

Left Out: 31.252+/-0.015 χ^2/NDF :2956.8/2

Right Out: 30.777+/-0.009 χ^2/NDF : 3536234.6/18

Left In: 30.386+/-0.016 χ^2/NDF :488.1/1

Left: 30.844+/-0.011 χ^2/NDF : 4925.9/4

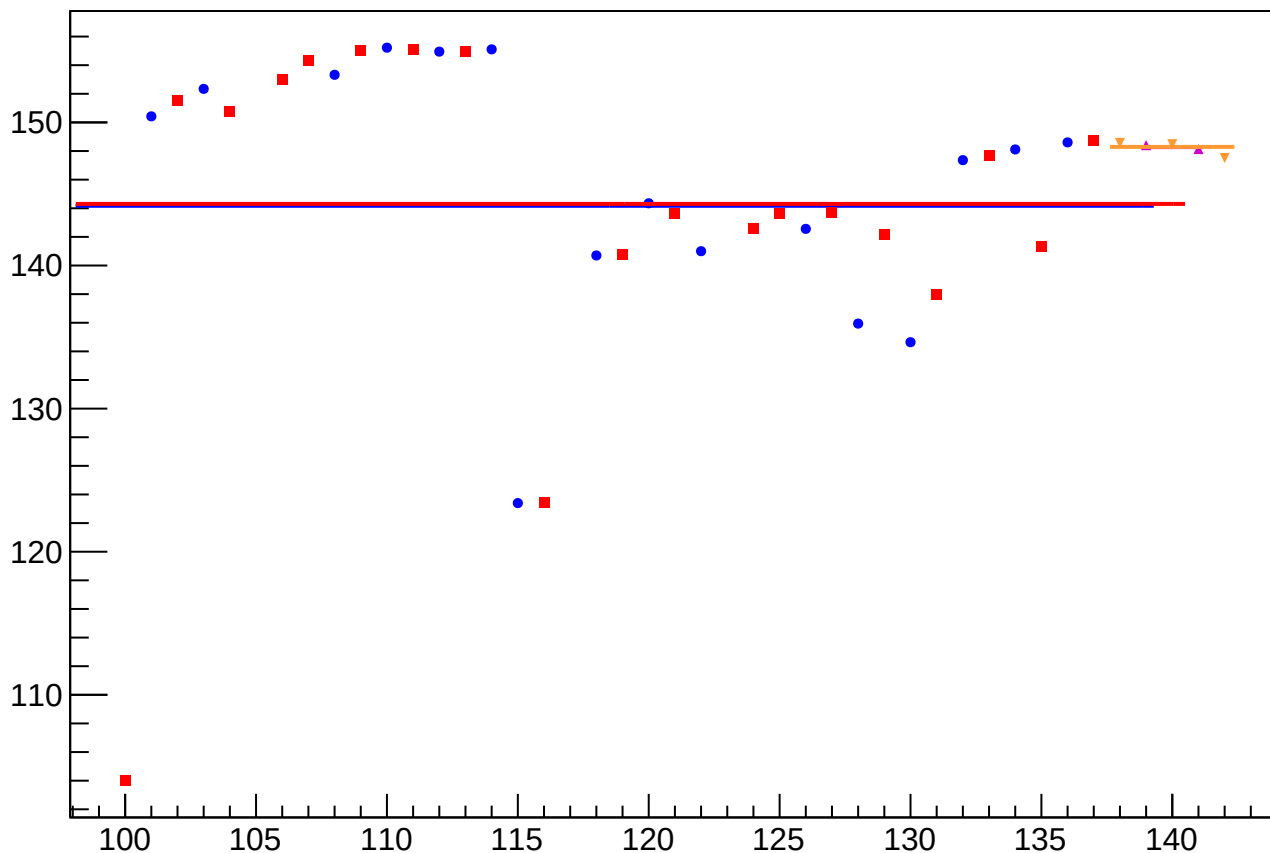
Right: 30.853+/-0.007 χ^2/NDF : 6788975.5/34

In: 30.797+/-0.008 χ^2/NDF :3253928.6/17

Out: 30.904+/-0.008 χ^2/NDF :3539885.0/21

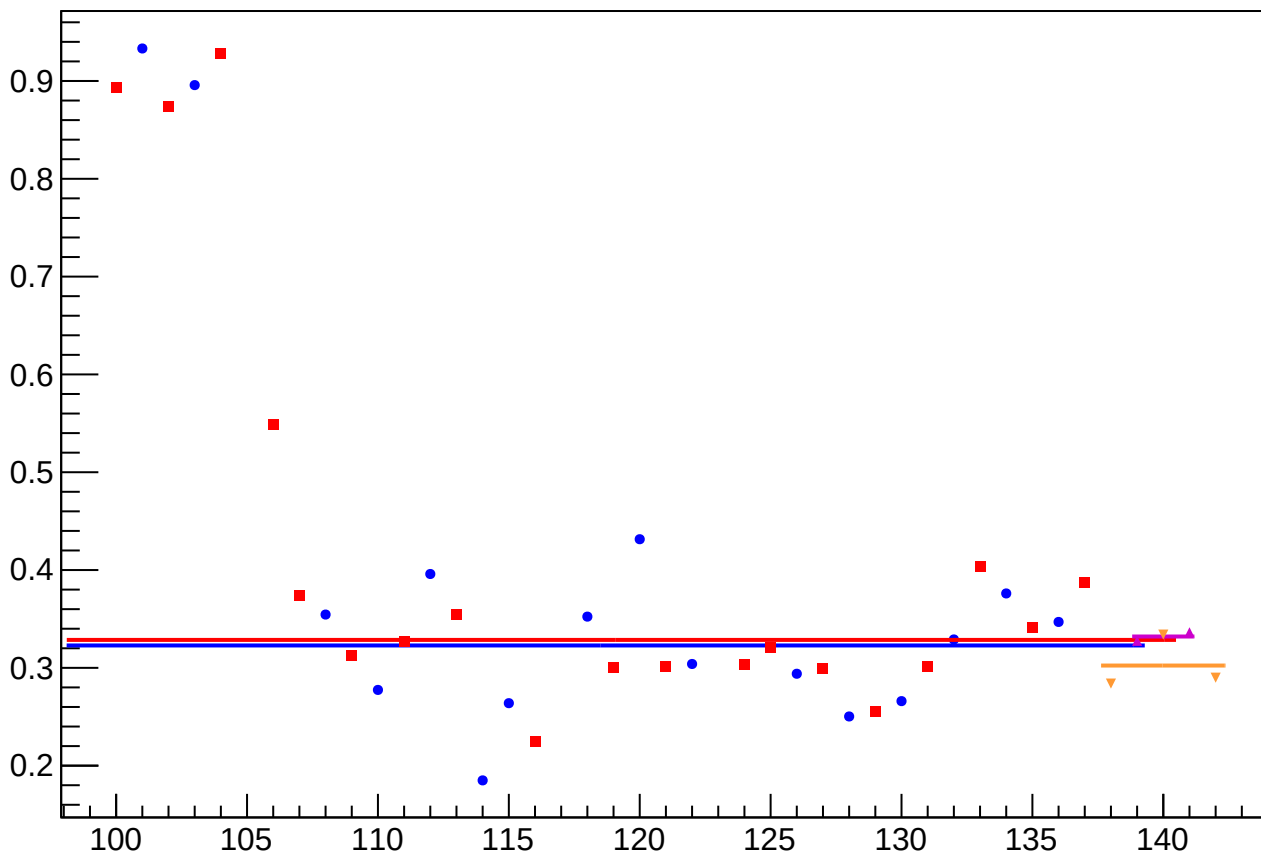
All: 30.851+/-0.006 χ^2/NDF : 6793902.0/39

yield_bcm_target_mean vs Slug, Sign Corrected



Right In: 144.176+/-0.000	χ^2/NDF : 3724747268.7/15	Left: 148.283+/-0.000	χ^2/NDF : 4314341.7/4
Left Out: 148.288+/-0.000	χ^2/NDF : 4034772.6/2	Right: 144.240+/-0.000	χ^2/NDF : 7989709366.0/34
Right Out: 144.304+/-0.000	χ^2/NDF : 4264494940.7/18	In: 145.036+/-0.000	χ^2/NDF : 3926184377.0/17
Left In: 148.275+/-0.000	χ^2/NDF : 278038.9/1	Out: 145.414+/-0.000	χ^2/NDF : 4518240811.0/21
		All: 145.233+/-0.000	χ^2/NDF : 8449805935.1

yield_bcm_target_rms vs Slug, Sign Corrected



Right In: 0.323+/-0.000 χ^2/NDF : 1396024.1/15

Left Out: 0.302+/-0.000 χ^2/NDF :22741.0/2

Right Out: 0.329+/-0.000 χ^2/NDF : 1304148.7/18

Left In: 0.332+/-0.000 χ^2/NDF :575.0/1

Left: 0.315+/-0.000 χ^2/NDF : 39071.3/4

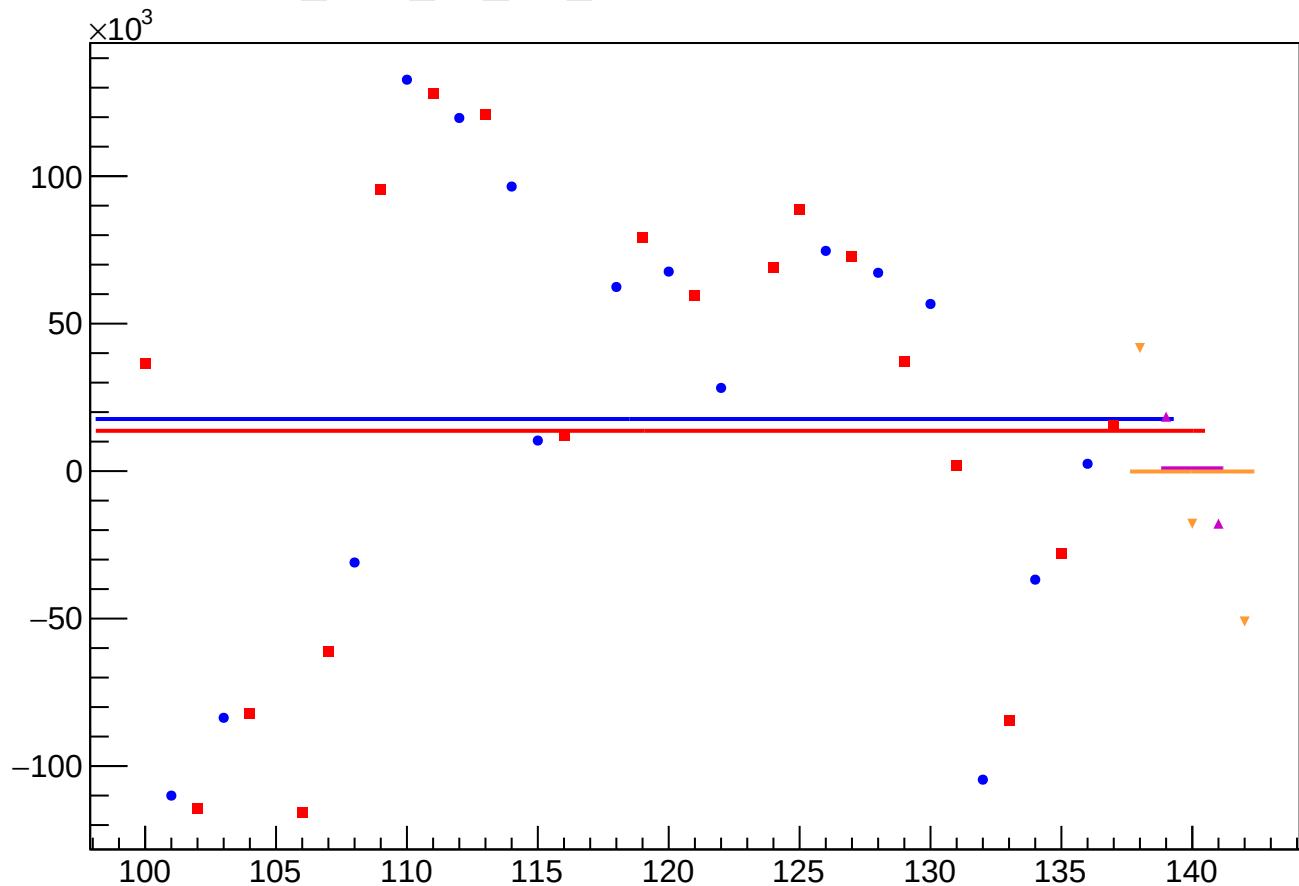
Right: 0.326+/-0.000 χ^2/NDF : 2702003.2/34

In: 0.325+/-0.000 χ^2/NDF :1398604.8/17

Out: 0.321+/-0.000 χ^2/NDF :1348507.1/21

All: 0.323+/-0.000 χ^2/NDF : 2748055.8/39

yield_bcm_an_diff_mean vs Slug, Sign Corrected



Right In: 17663.790 $\pm$ 2.006 χ^2 /NDF: 1398738701.8/15

Left Out: -134.347 $\pm$ 3.476 χ^2 /NDF:118025127.5/2

Right Out: 13666.312 $\pm$ 1.925 χ^2 /NDF: 1856962869.6/18

Left In: 942.558 $\pm$ 3.821 χ^2 /NDF:22491248.6/1

Left: 353.374 $\pm$ 2.571 χ^2 /NDF: 140559838.3/4

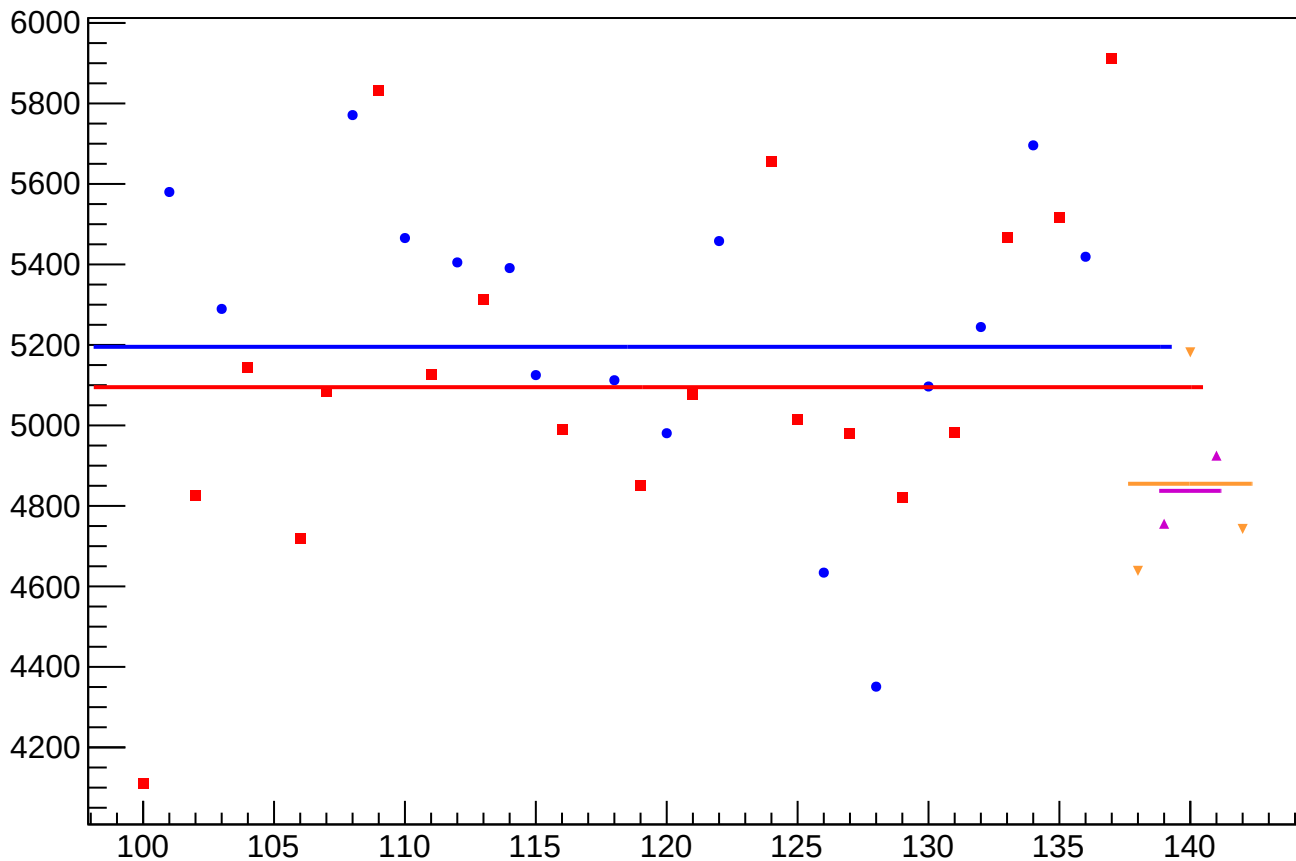
Right: 15583.102 $\pm$ 1.389 χ^2 /NDF: 3257769505.5/3

In: 14051.995 $\pm$ 1.776 χ^2 /NDF:1436245286.3/17

Out: 10427.841 $\pm$ 1.684 χ^2 /NDF:1987049904.3/21

All: 12143.845 $\pm$ 1.222 χ^2 /NDF: 3425488232

yield_bcm_an_diff_rms vs Slug, Sign Corrected



Right In: 5195.298 $\pm$ 1.418 χ^2 /NDF: 77166.0/15

Left Out: 4855.052 $\pm$ 2.458 χ^2 /NDF:10008.3/2

Right Out: 5095.047 $\pm$ 1.361 χ^2 /NDF: 59112.0/18

Left In: 4837.430 $\pm$ 2.702 χ^2 /NDF:979.7/1

Left: 4847.071 $\pm$ 1.818 χ^2 /NDF: 11011.2/4

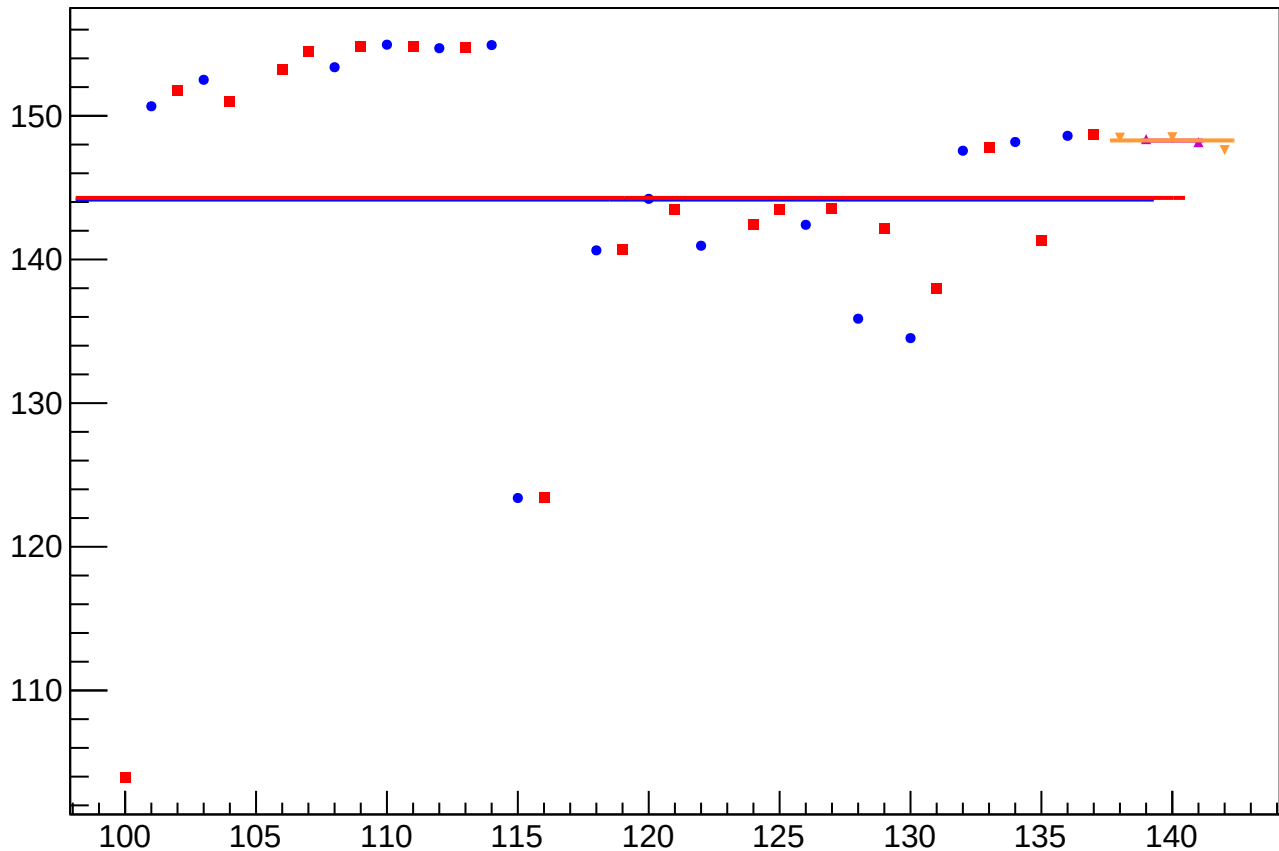
Right: 5143.118 $\pm$ 0.982 χ^2 /NDF: 138879.2/34

In: 5117.999 $\pm$ 1.256 χ^2 /NDF:91901.1/17

Out: 5038.730 $\pm$ 1.191 χ^2 /NDF:76415.8/21

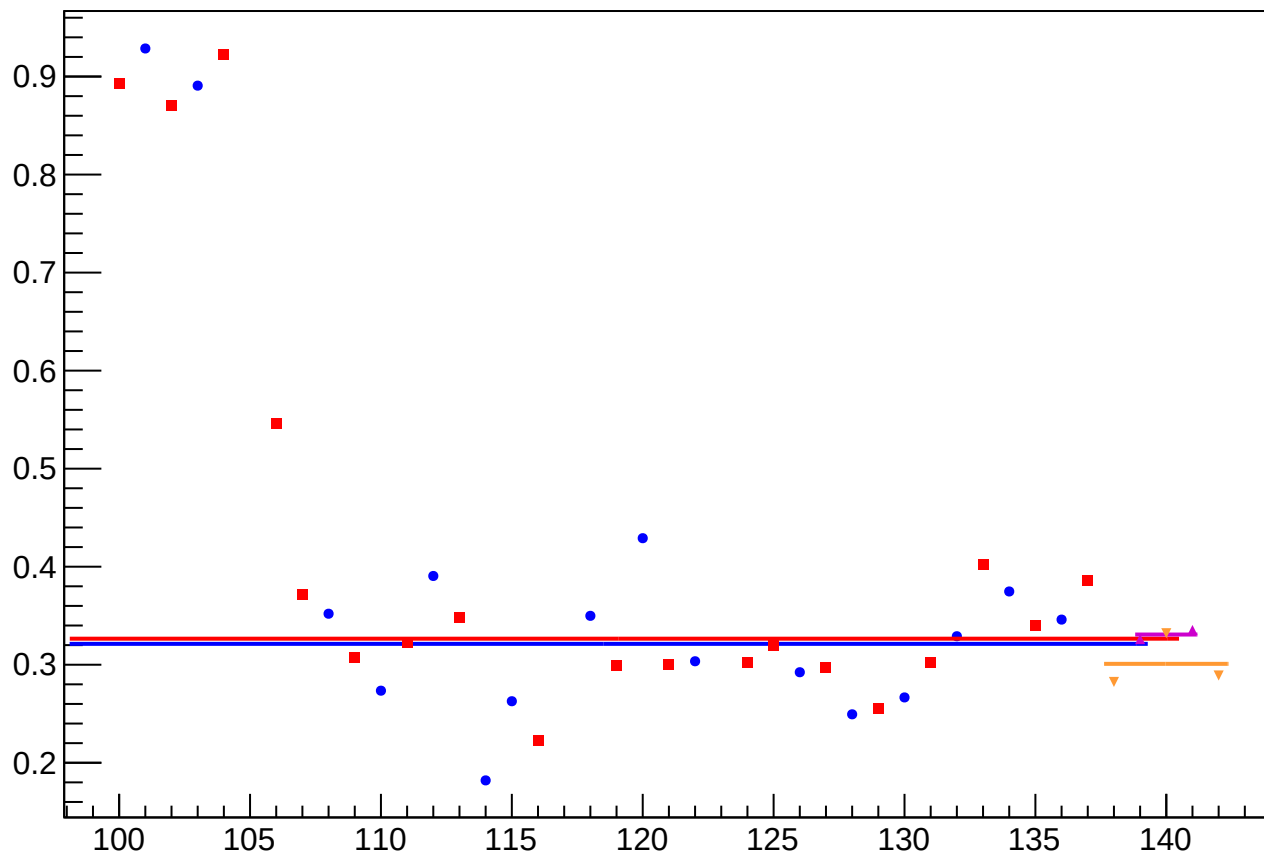
All: 5076.263 $\pm$ 0.864 χ^2 /NDF: 170415.2/39

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.172+/-0.000	χ^2/NDF : 3764836520.0/15	Left: 148.282+/-0.000	χ^2/NDF : 3230130.3/4
Left Out: 148.288+/-0.000	χ^2/NDF : 3060972.8/2	Right: 144.229+/-0.000	χ^2/NDF : 8055437753.5/34
Right Out: 144.286+/-0.000	χ^2/NDF : 4290223847.7/18	In: 145.030+/-0.000	χ^2/NDF : 3968041667.7/17
Left In: 148.274+/-0.000	χ^2/NDF : 167279.3/1	Out: 145.400+/-0.000	χ^2/NDF : 4547857060.2/21
		All: 145.223+/-0.000	χ^2/NDF : 8521075781.9

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.321+/-0.000 χ^2/NDF : 1396250.7/15

Left Out: 0.301+/-0.000 χ^2/NDF :22472.1/2

Right Out: 0.327+/-0.000 χ^2/NDF : 1302732.4/18

Left In: 0.331+/-0.000 χ^2/NDF :664.6/1

Left: 0.313+/-0.000 χ^2/NDF : 39262.5/4

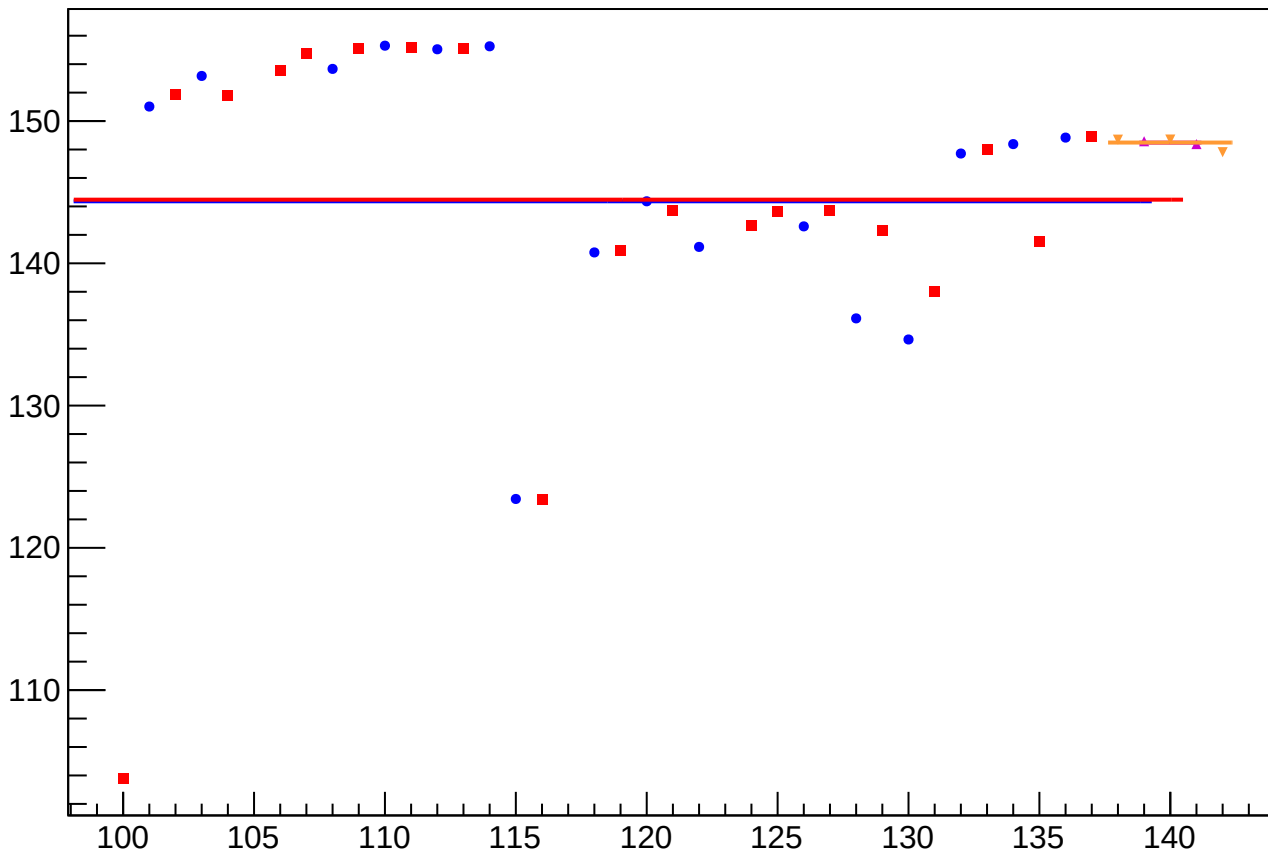
Right: 0.324+/-0.000 χ^2/NDF : 2700575.6/34

In: 0.323+/-0.000 χ^2/NDF :1399096.4/17

Out: 0.319+/-0.000 χ^2/NDF :1346151.4/21

All: 0.321+/-0.000 χ^2/NDF : 2746380.8/39

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.361+/-0.000 χ^2/NDF : 3758625293.6/15

Left Out: 148.489+/-0.000 χ^2/NDF : 3046320.6/2

Right Out: 144.475+/-0.000 χ^2/NDF : 4281975463.8/18

Left In: 148.482+/-0.000 χ^2/NDF : 149776.9/1

Left: 148.486+/-0.000 χ^2/NDF : 3196623.7/4

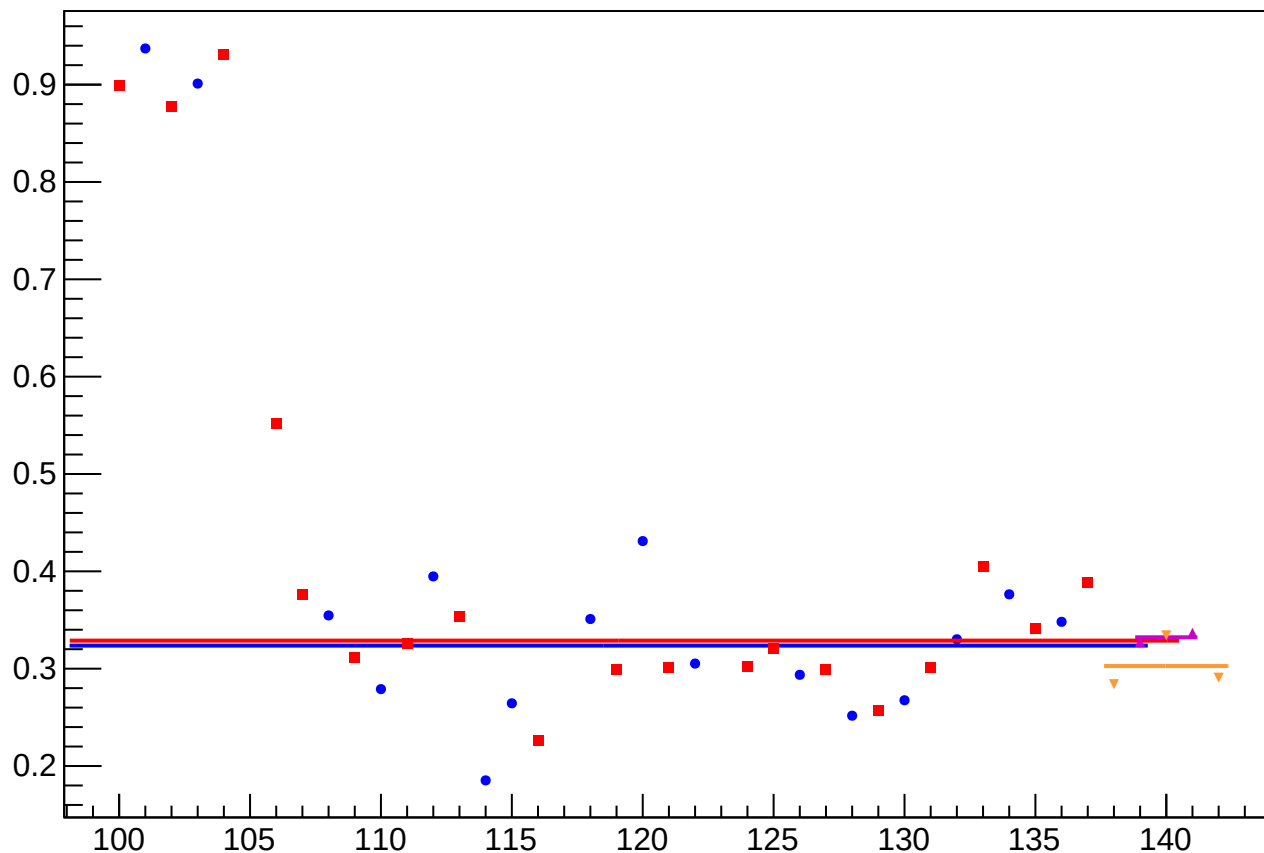
Right: 144.417+/-0.000 χ^2/NDF : 8040967165.8/34

In: 145.227+/-0.000 χ^2/NDF : 3961652101.8/17

Out: 145.593+/-0.000 χ^2/NDF : 4538087662.0/21

All: 145.418+/-0.000 χ^2/NDF : 8504744306.3

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.324+/-0.000 χ^2/NDF : 1392377.9/15

Left Out: 0.303+/-0.000 χ^2/NDF :22671.2/2

Right Out: 0.329+/-0.000 χ^2/NDF : 1303222.2/18

Left In: 0.332+/-0.000 χ^2/NDF :641.2/1

Left: 0.315+/-0.000 χ^2/NDF : 38898.4/4

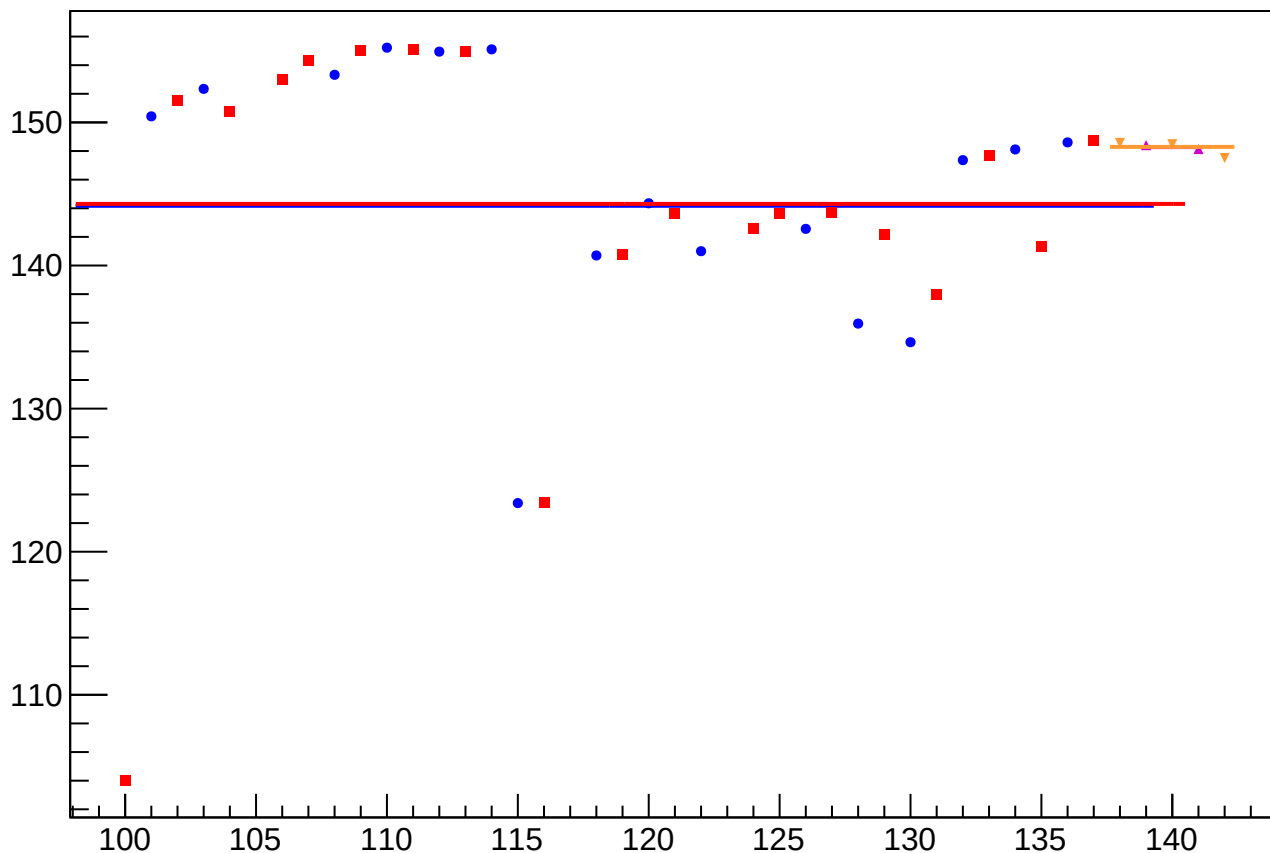
Right: 0.326+/-0.000 χ^2/NDF : 2697075.5/34

In: 0.326+/-0.000 χ^2/NDF :1394759.2/17

Out: 0.322+/-0.000 χ^2/NDF :1347321.6/21

All: 0.323+/-0.000 χ^2/NDF : 2743258.2/39

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.176+/-0.000 χ^2/NDF : 3724747268.7/15

Left Out: 148.288+/-0.000 χ^2/NDF : 4034772.6/2

Right Out: 144.304+/-0.000 χ^2/NDF : 4264494940.7/18

Left In: 148.275+/-0.000 χ^2/NDF : 278038.9/1

Left: 148.283+/-0.000 χ^2/NDF : 4314341.7/4

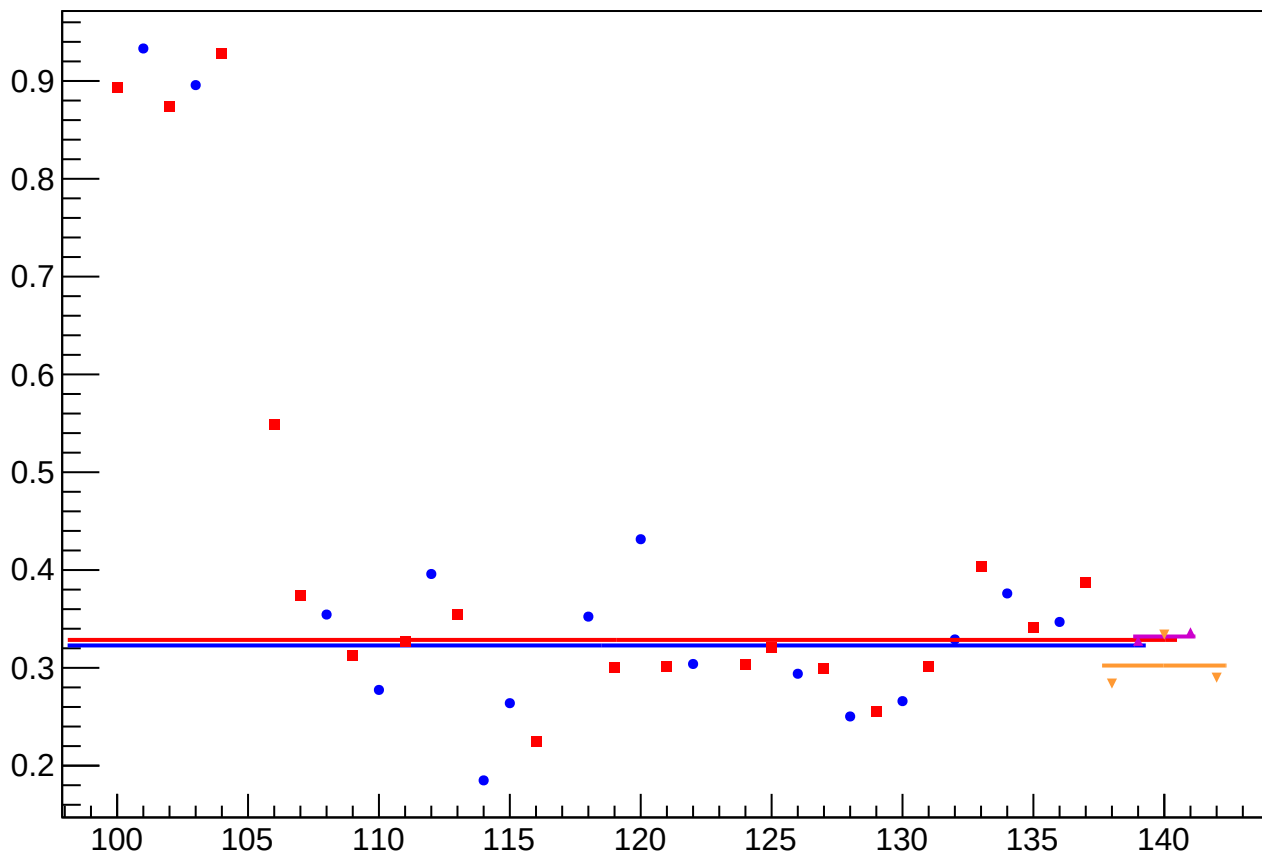
Right: 144.240+/-0.000 χ^2/NDF : 7989709366.0/34

In: 145.036+/-0.000 χ^2/NDF : 3926184377.0/17

Out: 145.414+/-0.000 χ^2/NDF : 4518240811.0/21

All: 145.233+/-0.000 χ^2/NDF : 8449805935.1

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.323+/-0.000 χ^2/NDF : 1396024.1/15

Left Out: 0.302+/-0.000 χ^2/NDF : 22741.0/2

Right Out: 0.329+/-0.000 χ^2/NDF : 1304148.7/18

Left In: 0.332+/-0.000 χ^2/NDF : 575.0/1

Left: 0.315+/-0.000 χ^2/NDF : 39071.3/4

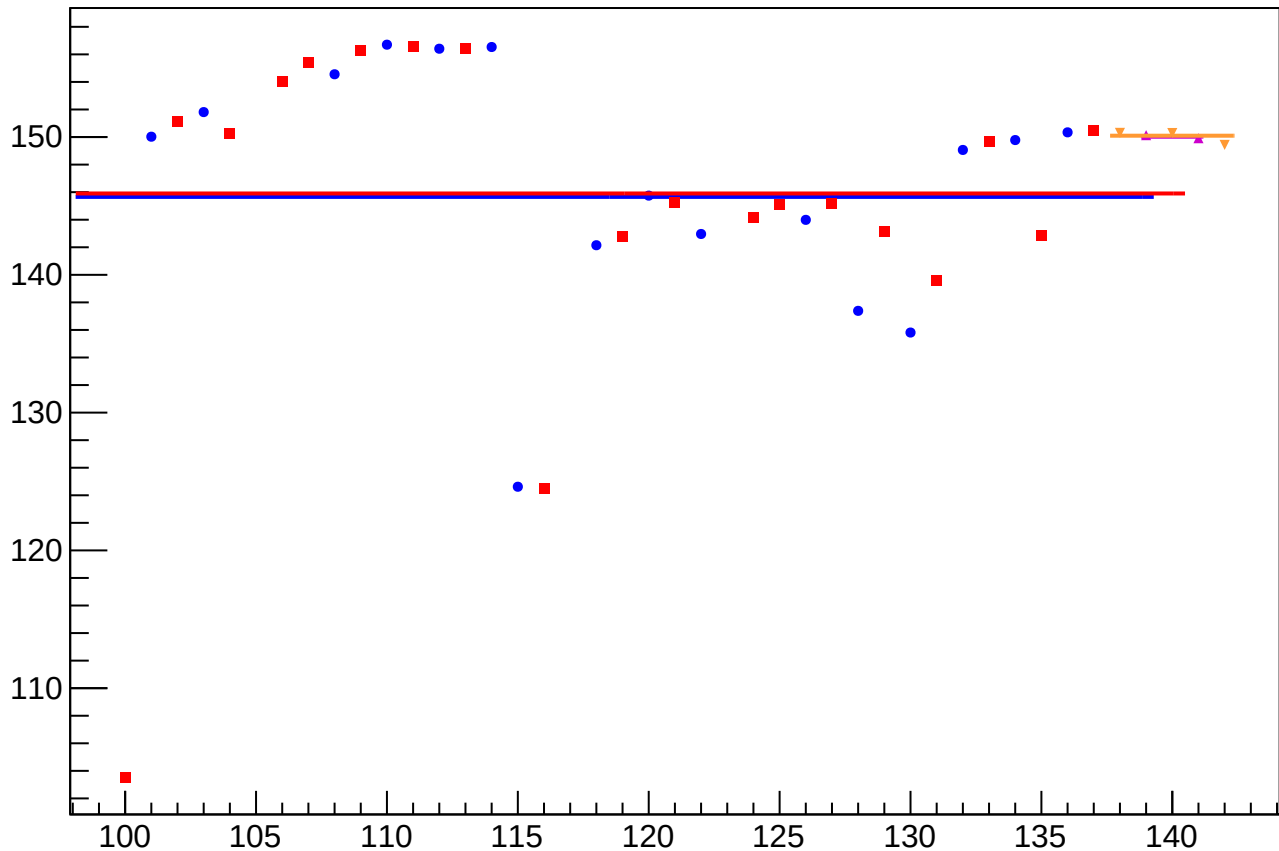
Right: 0.326+/-0.000 χ^2/NDF : 2702003.2/34

In: 0.325+/-0.000 χ^2/NDF : 1398604.8/17

Out: 0.321+/-0.000 χ^2/NDF : 1348507.1/21

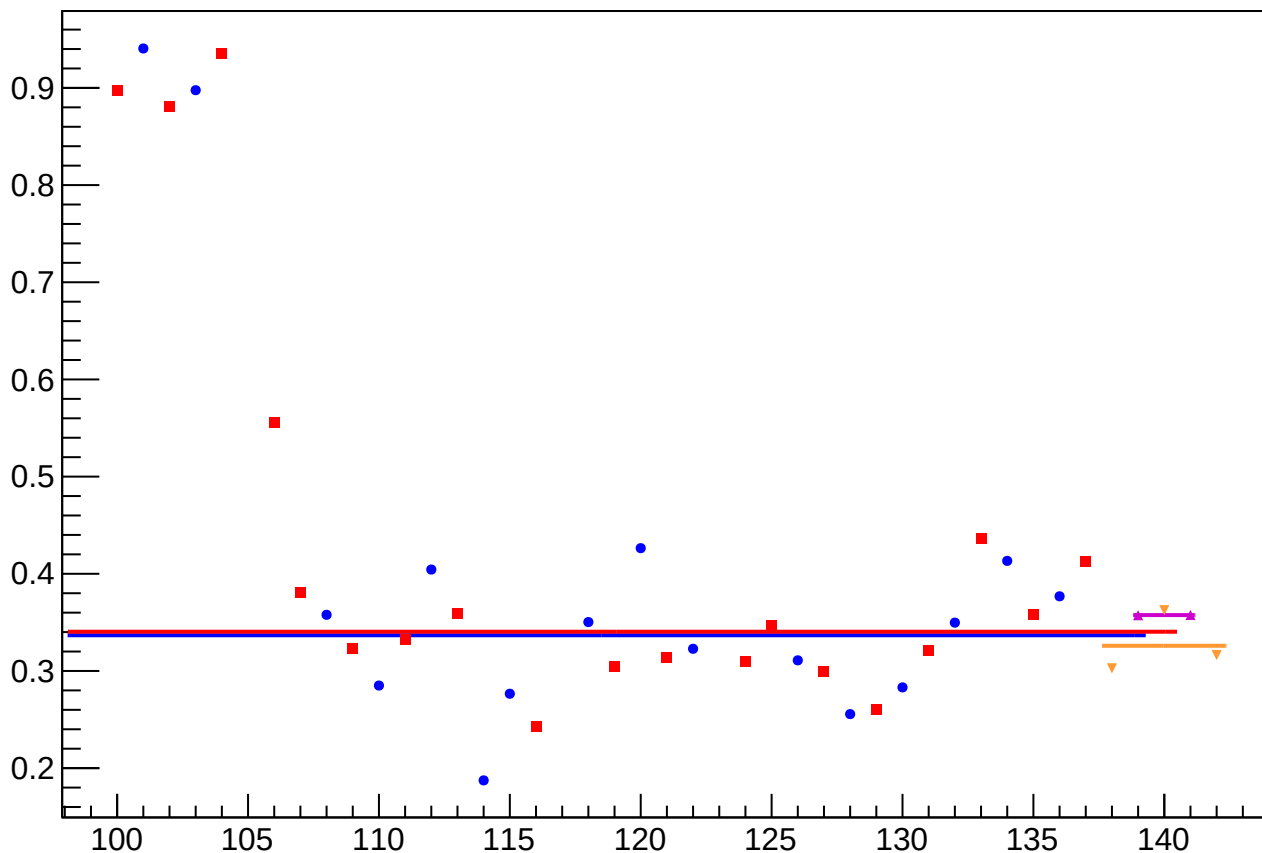
All: 0.323+/-0.000 χ^2/NDF : 2748055.8/39

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 145.657+/-0.000	χ^2/NDF : 3481495345.2/15	Left: 150.067+/-0.000	χ^2/NDF : 2676022.0/4
Left Out: 150.098+/-0.000	χ^2/NDF : 2474073.6/2	Right: 145.781+/-0.000	χ^2/NDF : 7346117767.9/34
Right Out: 145.904+/-0.000	χ^2/NDF : 3863011865.2/18	In: 146.524+/-0.000	χ^2/NDF : 3680112508.0/17
Left In: 150.023+/-0.000	χ^2/NDF : 158885.0/1	Out: 146.996+/-0.000	χ^2/NDF : 4106149094.1/21
		All: 146.770+/-0.000	χ^2/NDF : 7793865858.3

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.337 $\pm$ 0.000 χ^2 /NDF: 1370512.1/15

Left Out: 0.326 $\pm$ 0.000 χ^2 /NDF:26090.4/2

Right Out: 0.340 $\pm$ 0.000 χ^2 /NDF: 1274717.4/18

Left In: 0.357 $\pm$ 0.000 χ^2 /NDF:0.5/1

Left: 0.339 $\pm$ 0.000 χ^2 /NDF: 41316.2/4

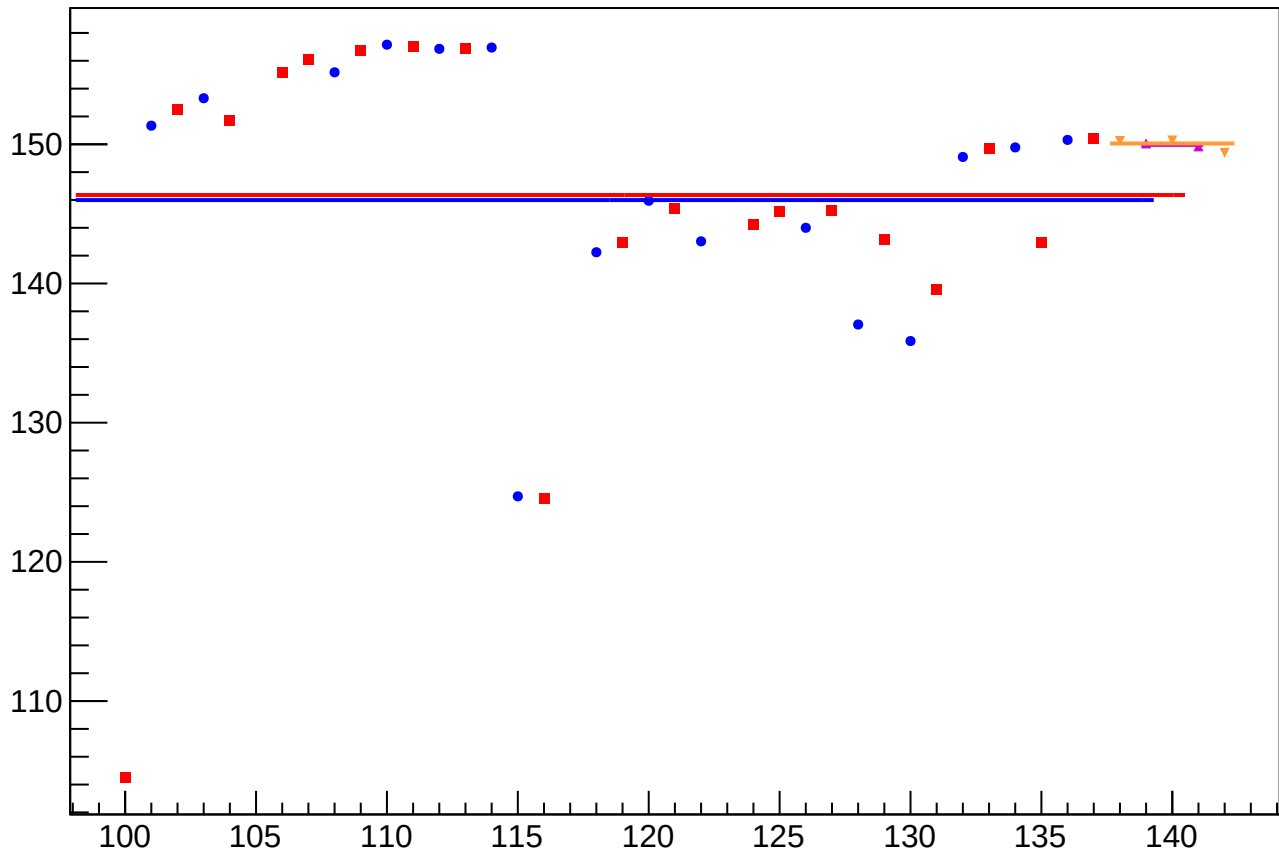
Right: 0.339 $\pm$ 0.000 χ^2 /NDF: 2645924.6/34

In: 0.341 $\pm$ 0.000 χ^2 /NDF:1379482.5/17

Out: 0.337 $\pm$ 0.000 χ^2 /NDF:1306535.9/21

All: 0.339 $\pm$ 0.000 χ^2 /NDF: 2687247.7/39

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 145.993+/-0.000 χ^2/NDF : 3621634656.4/15

Left Out: 150.058+/-0.000 χ^2/NDF :2384602.4/2

Right Out: 146.358+/-0.000 χ^2/NDF : 3963122316.1/18

Left In: 149.957+/-0.000 χ^2/NDF :140475.0/1

Left: 150.017+/-0.000 χ^2/NDF : 2602298.1/4

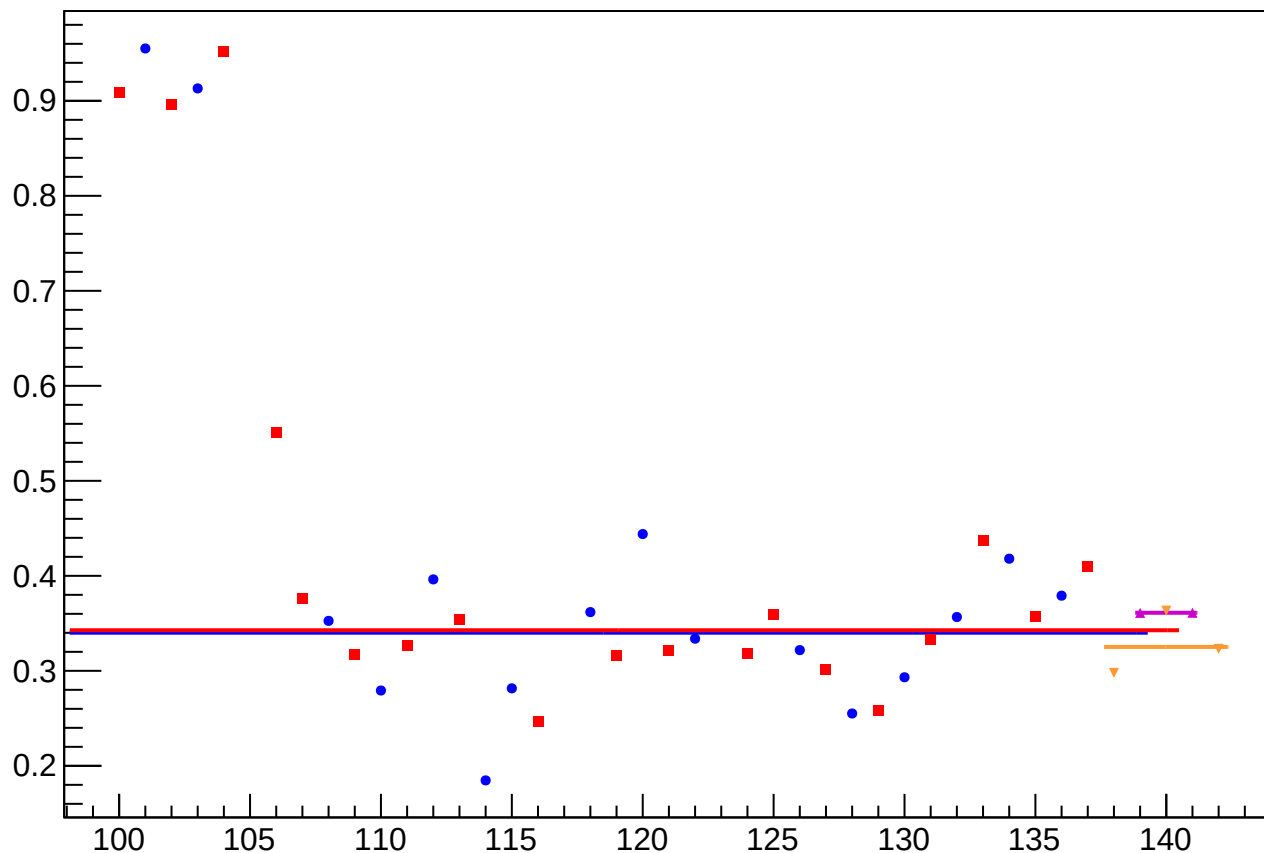
Right: 146.176+/-0.000 χ^2/NDF : 7588198619.6/34

In: 146.779+/-0.000 χ^2/NDF :3781562126.9/17

Out: 147.331+/-0.000 χ^2/NDF :4151741716.7/21

All: 147.068+/-0.000 χ^2/NDF : 7943491768.5

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.340 $\pm$ 0.000 χ^2 /NDF: 1393222.3/15

Left Out: 0.325 $\pm$ 0.000 χ^2 /NDF:30241.4/2

Right Out: 0.343 $\pm$ 0.000 χ^2 /NDF: 1270731.2/18

Left In: 0.361 $\pm$ 0.000 χ^2 /NDF:0.1/1

Left: 0.340 $\pm$ 0.000 χ^2 /NDF: 49690.1/4

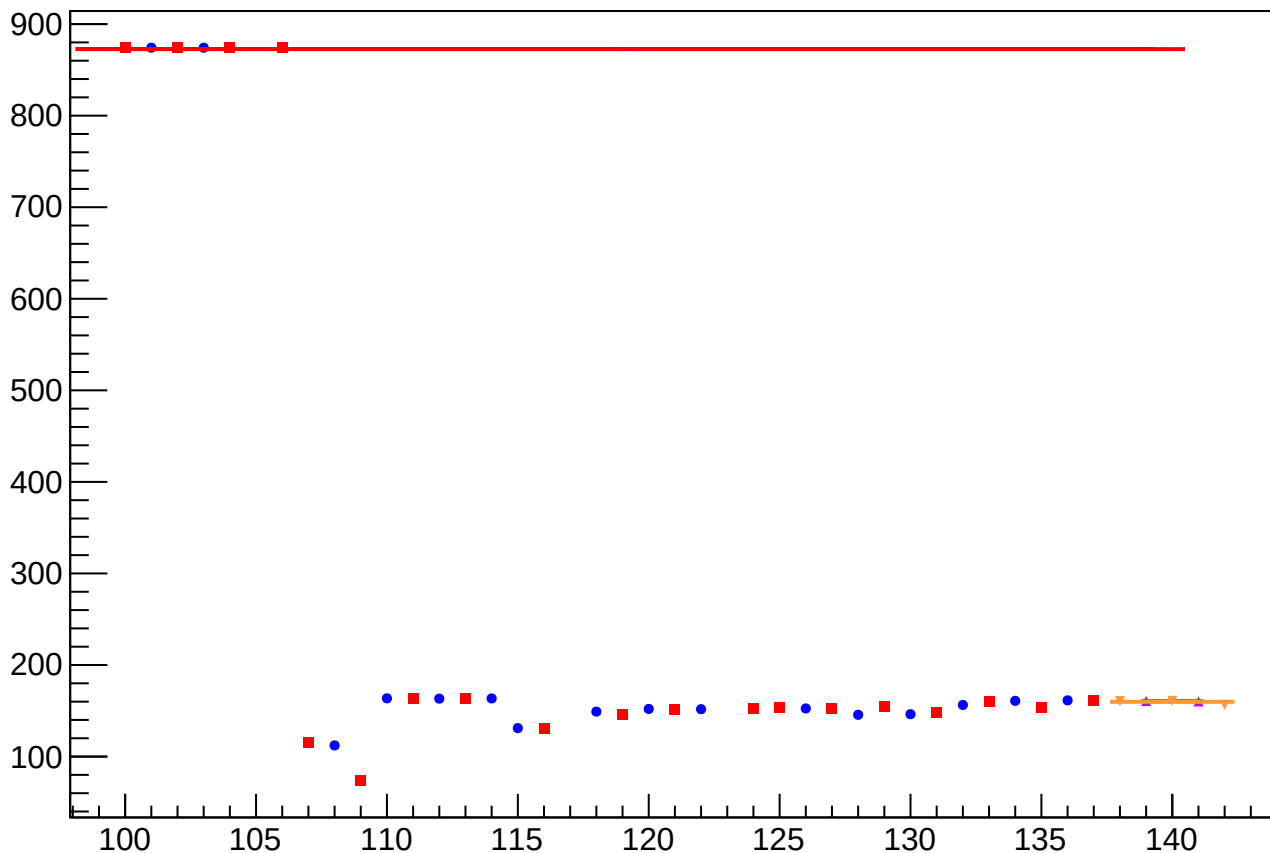
Right: 0.341 $\pm$ 0.000 χ^2 /NDF: 2664290.2/34

In: 0.344 $\pm$ 0.000 χ^2 /NDF:1402157.3/17

Out: 0.338 $\pm$ 0.000 χ^2 /NDF:1309363.0/21

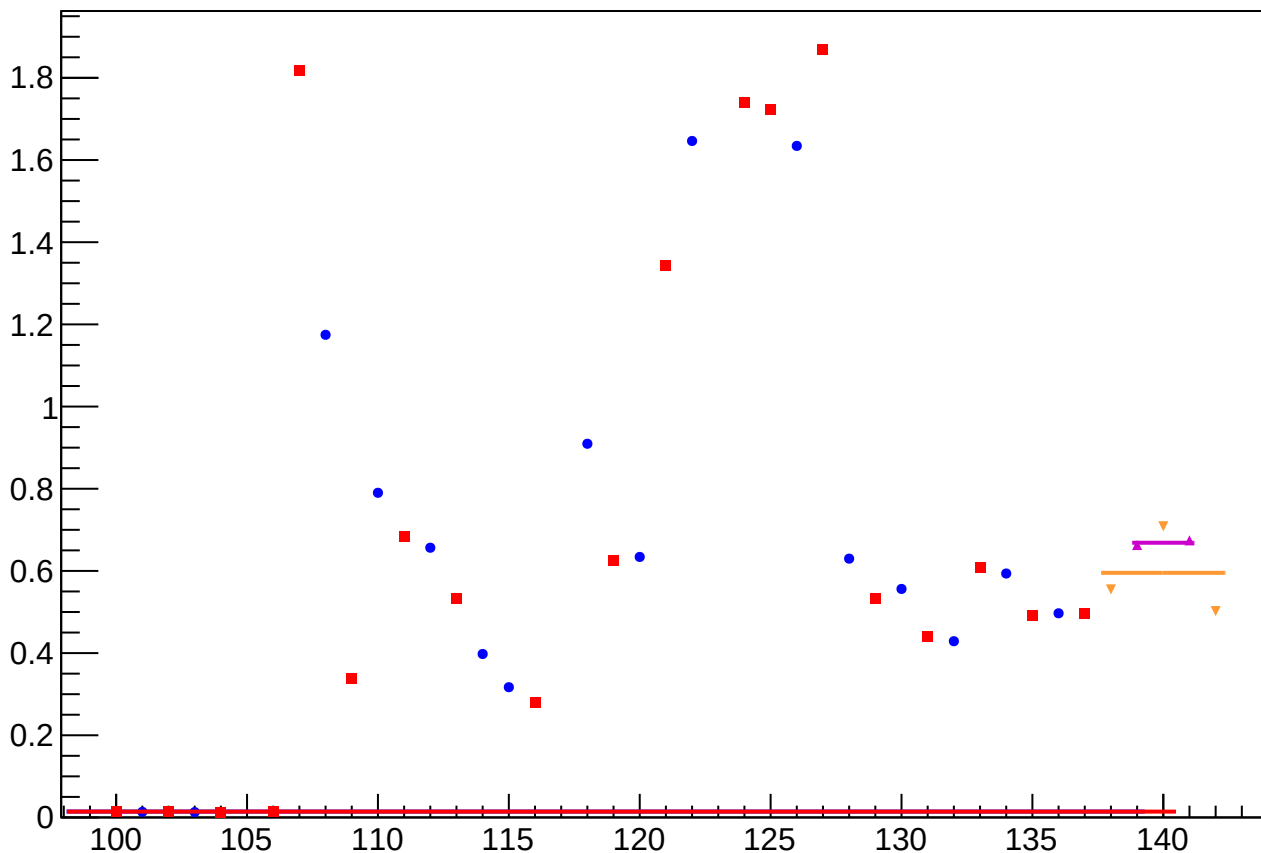
All: 0.341 $\pm$ 0.000 χ^2 /NDF: 2714108.7/39

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 872.822+/-0.000	χ^2/NDF : 7191496833472.3/15	Left: 160.071+/-0.000	χ^2/NDF : 12423149.5/4
Left Out: 159.801+/-0.000	χ^2/NDF : 11515775.8/2	Right: 872.744+/-0.000	χ^2/NDF : 16358876765227.4
Right Out: 872.676+/-0.000	χ^2/NDF : 9167298490018.9/18	In: 872.508+/-0.000	χ^2/NDF : 8782865897312.3/17
Left In: 160.433+/-0.001	χ^2/NDF : 187293.8/1	Out: 872.310+/-0.000	χ^2/NDF : 11306912885132.2
		All: 872.402+/-0.000	χ^2/NDF : 20089928705

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000

χ^2 /NDF: 9622176.3/15

Left Out: 0.595 $\pm$ 0.000

χ^2 /NDF: 56342.6/2

Right Out: 0.014 $\pm$ 0.000

χ^2 /NDF: 9410025.7/18

Left In: 0.669 $\pm$ 0.000

χ^2 /NDF: 201.1/1

Left: 0.627 $\pm$ 0.000

χ^2 /NDF: 75844.1/4

Right: 0.014 $\pm$ 0.000

χ^2 /NDF: 19032353.5/34

In: 0.015 $\pm$ 0.000

χ^2 /NDF: 12306411.1/17

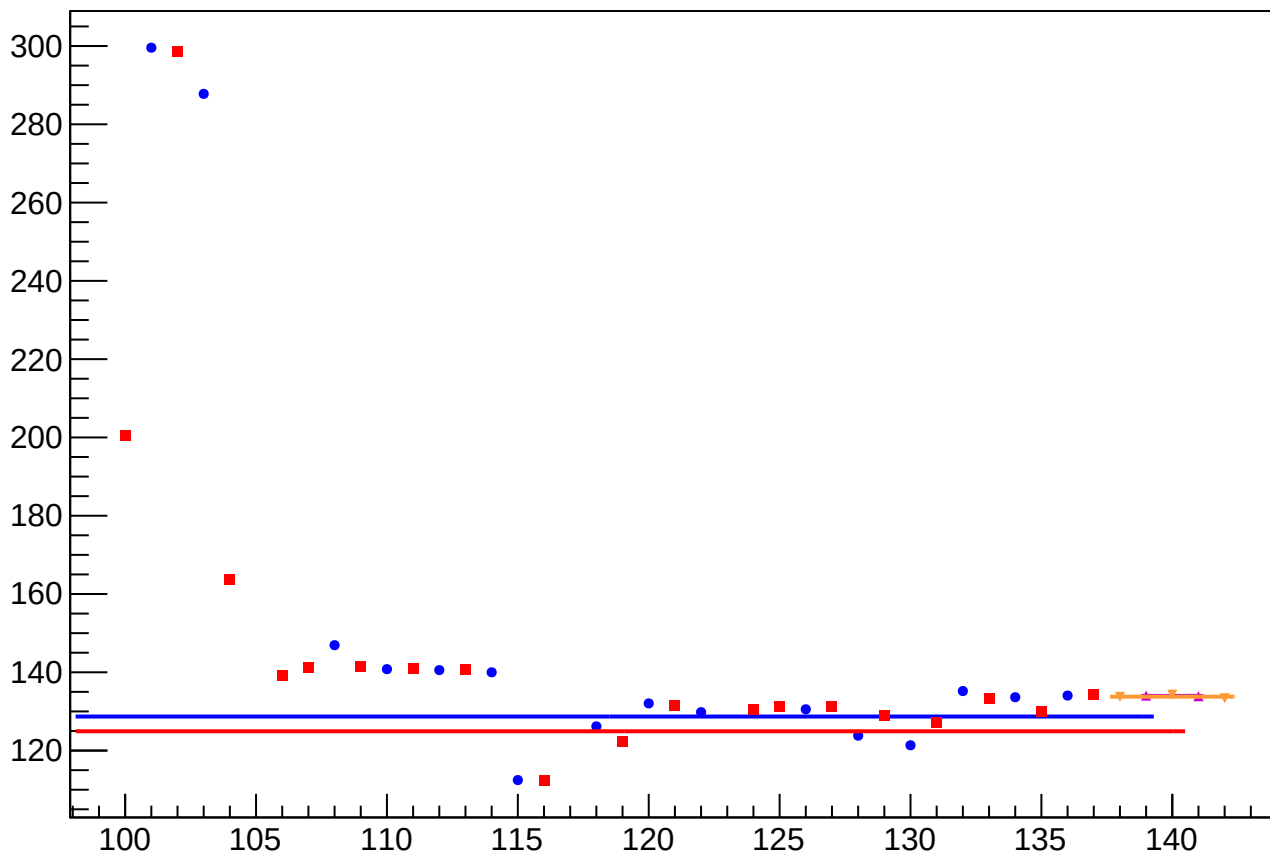
Out: 0.015 $\pm$ 0.000

χ^2 /NDF: 12309577.6/21

All: 0.015 $\pm$ 0.000

χ^2 /NDF: 24616119.5/39

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 128.701 $\pm$ 0.000 χ^2 /NDF: 1656162604.0/15

Left Out: 133.774 $\pm$ 0.000 χ^2 /NDF: 784511.6/2

Right Out: 124.935 $\pm$ 0.000 χ^2 /NDF: 1397923053.7/18

Left In: 133.967 $\pm$ 0.000 χ^2 /NDF: 27813.9/1

Left: 133.851 $\pm$ 0.000 χ^2 /NDF: 905443.4/4

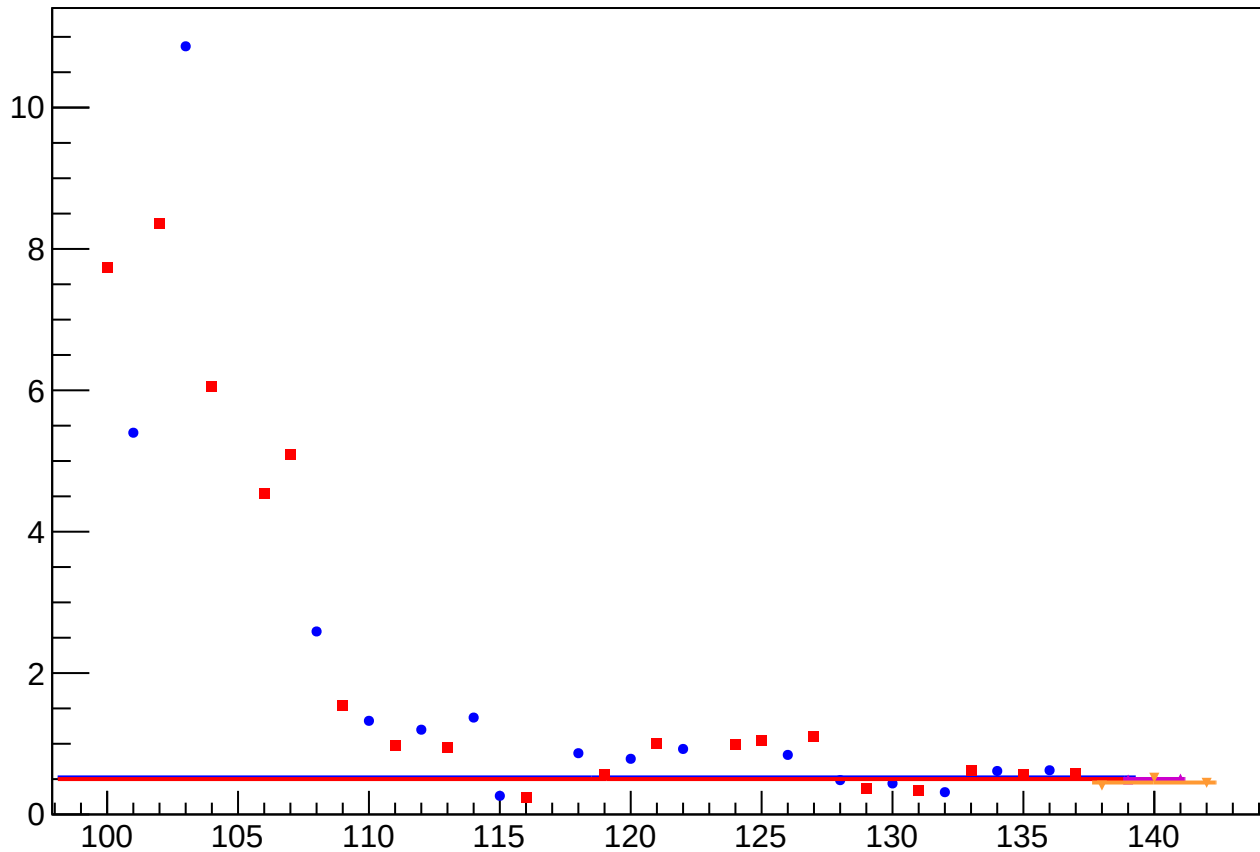
Right: 126.772 $\pm$ 0.000 χ^2 /NDF: 3151132983.0/34

In: 129.949 $\pm$ 0.000 χ^2 /NDF: 1744092749.2/17

Out: 127.662 $\pm$ 0.000 χ^2 /NDF: 1736839860.3/21

All: 128.722 $\pm$ 0.000 χ^2 /NDF: 3530123676.8

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.524+/-0.000 χ^2/NDF : 4138409.3/15

Left Out: 0.452+/-0.000 χ^2/NDF :25888.1/2

Right Out: 0.501+/-0.000 χ^2/NDF : 4884137.3/18

Left In: 0.502+/-0.000 χ^2/NDF :309.3/1

Left: 0.472+/-0.000 χ^2/NDF : 38583.4/4

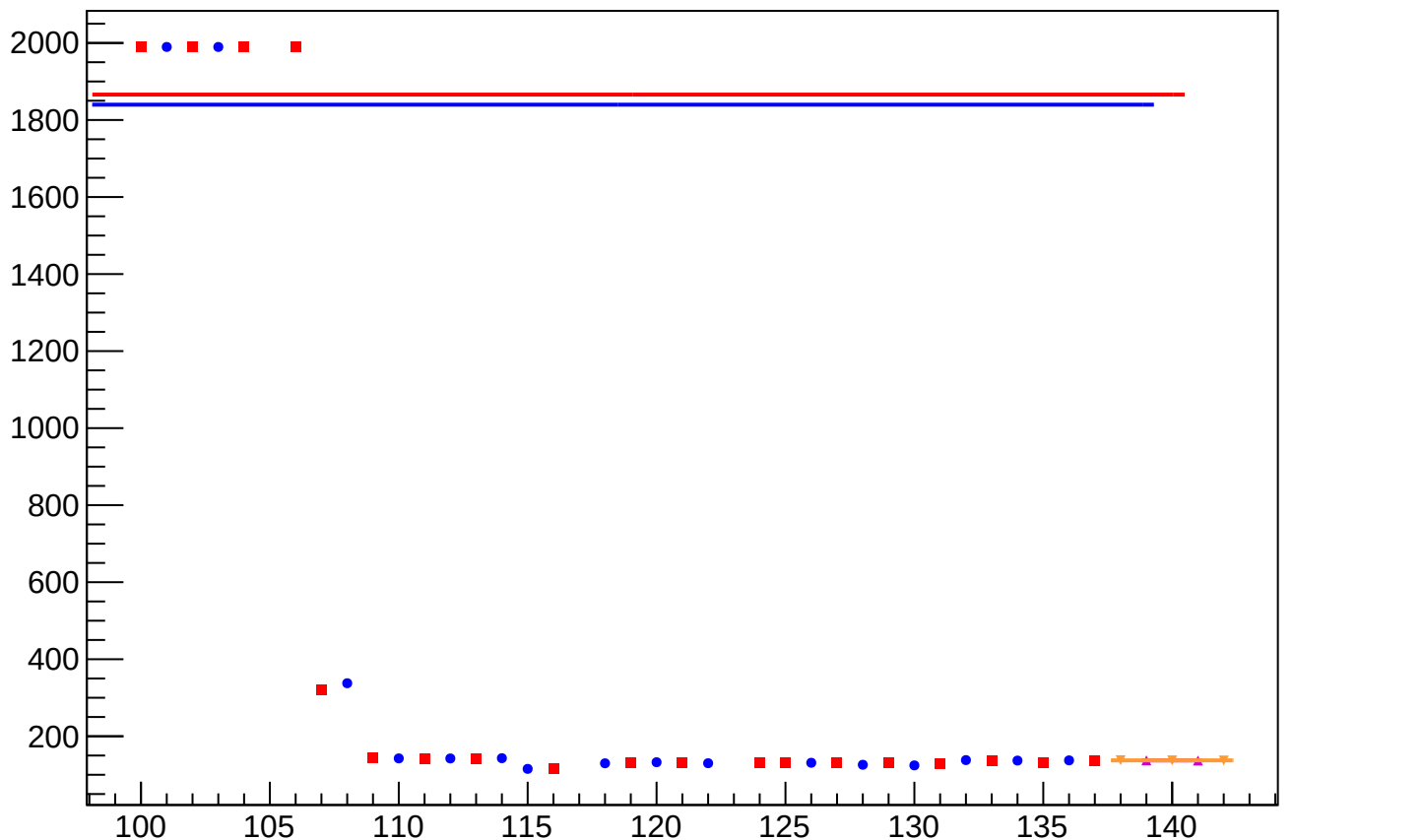
Right: 0.512+/-0.000 χ^2/NDF : 9030118.3/34

In: 0.519+/-0.000 χ^2/NDF :4141907.6/17

Out: 0.485+/-0.000 χ^2/NDF :4930567.1/21

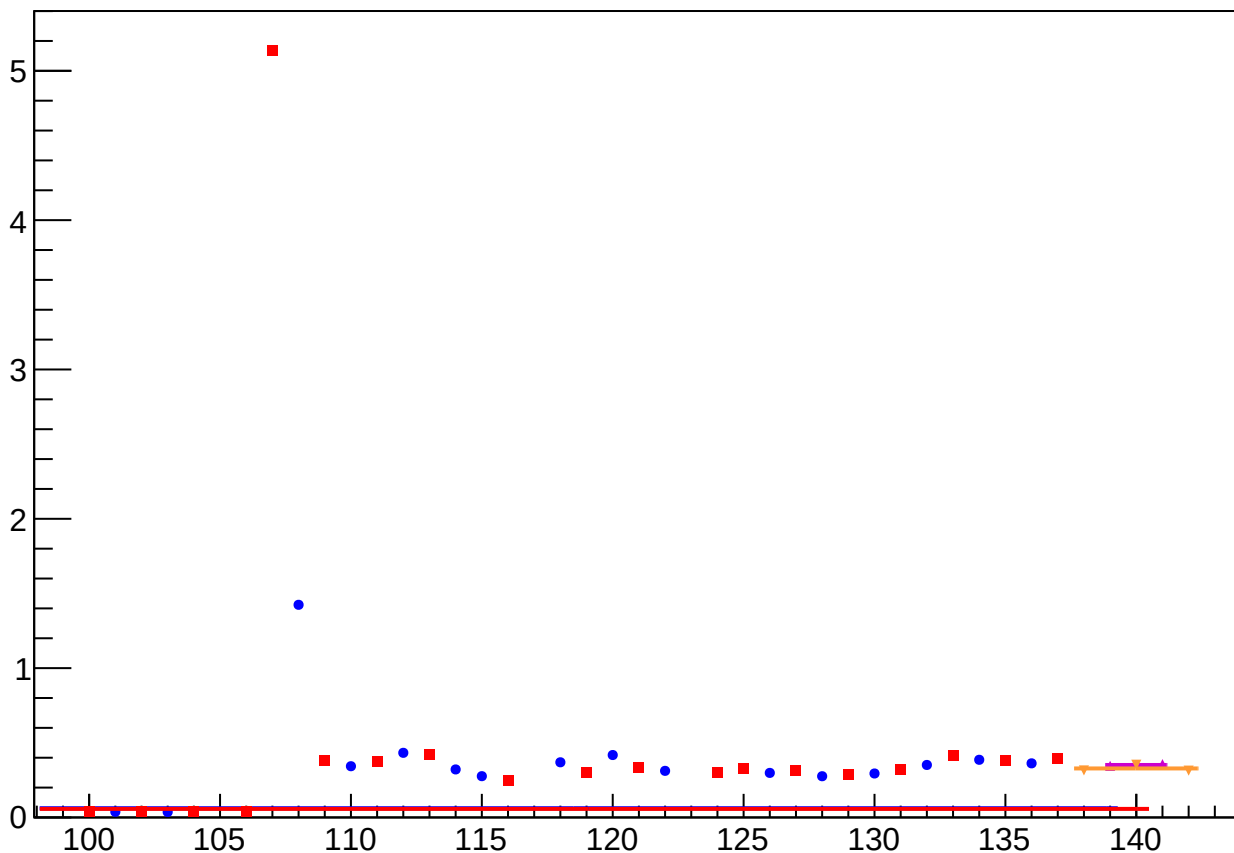
All: 0.501+/-0.000 χ^2/NDF : 9093234.5/39

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 1839.782 $\pm$ 0.000 χ^2 /NDF: 145916014549797.4/15
 Left Out: 137.431 $\pm$ 0.000 χ^2 /NDF: 1989163.2/2
 Right Out: 1865.968 $\pm$ 0.000 χ^2 /NDF: 142769122276045.8/18
 Left In: 137.306 $\pm$ 0.000 χ^2 /NDF: 967280.8/1
 Left: 137.379 $\pm$ 0.000 χ^2 /NDF: 3079512.0/4
 Right: 1853.888 $\pm$ 0.000 χ^2 /NDF: 28889579860593
 In: 1800.362 $\pm$ 0.000 χ^2 /NDF: 184191685367314.
 Out: 1818.804 $\pm$ 0.000 χ^2 /NDF: 197059673182416
 All: 1810.315 $\pm$ 0.000 χ^2 /NDF: 38135852447

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.062+/-0.000 χ^2/NDF : 8173578.9/15

Left Out: 0.328+/-0.000 χ^2/NDF :12892.9/2

Right Out: 0.057+/-0.000 χ^2/NDF : 7741927.9/18

Left In: 0.351+/-0.000 χ^2/NDF :946.9/1

Left: 0.338+/-0.000 χ^2/NDF : 22308.7/4

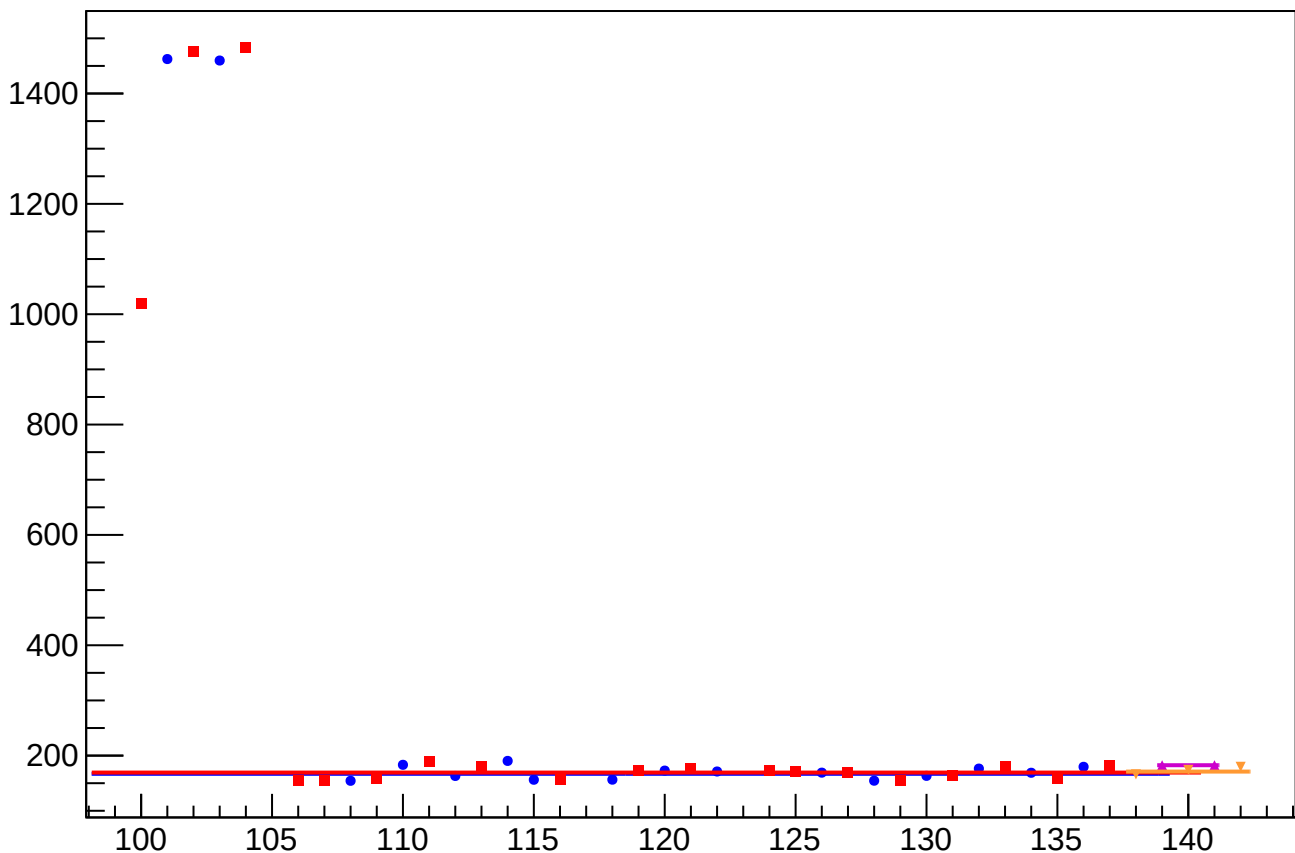
Right: 0.059+/-0.000 χ^2/NDF : 15927866.9/34

In: 0.068+/-0.000 χ^2/NDF :10390209.5/17

Out: 0.065+/-0.000 χ^2/NDF :10421556.7/21

All: 0.066+/-0.000 χ^2/NDF : 20820867.4/39

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 167.017+/-0.000 χ^2/NDF : 14614977518.5/15

Left Out: 171.051+/-0.001 χ^2/NDF : 49897417.5/2

Right Out: 169.257+/-0.000 χ^2/NDF : 16317542946.8/18

Left In: 182.589+/-0.001 χ^2/NDF : 1335.8/1

Left: 176.019+/-0.001 χ^2/NDF : 151049795.8/4

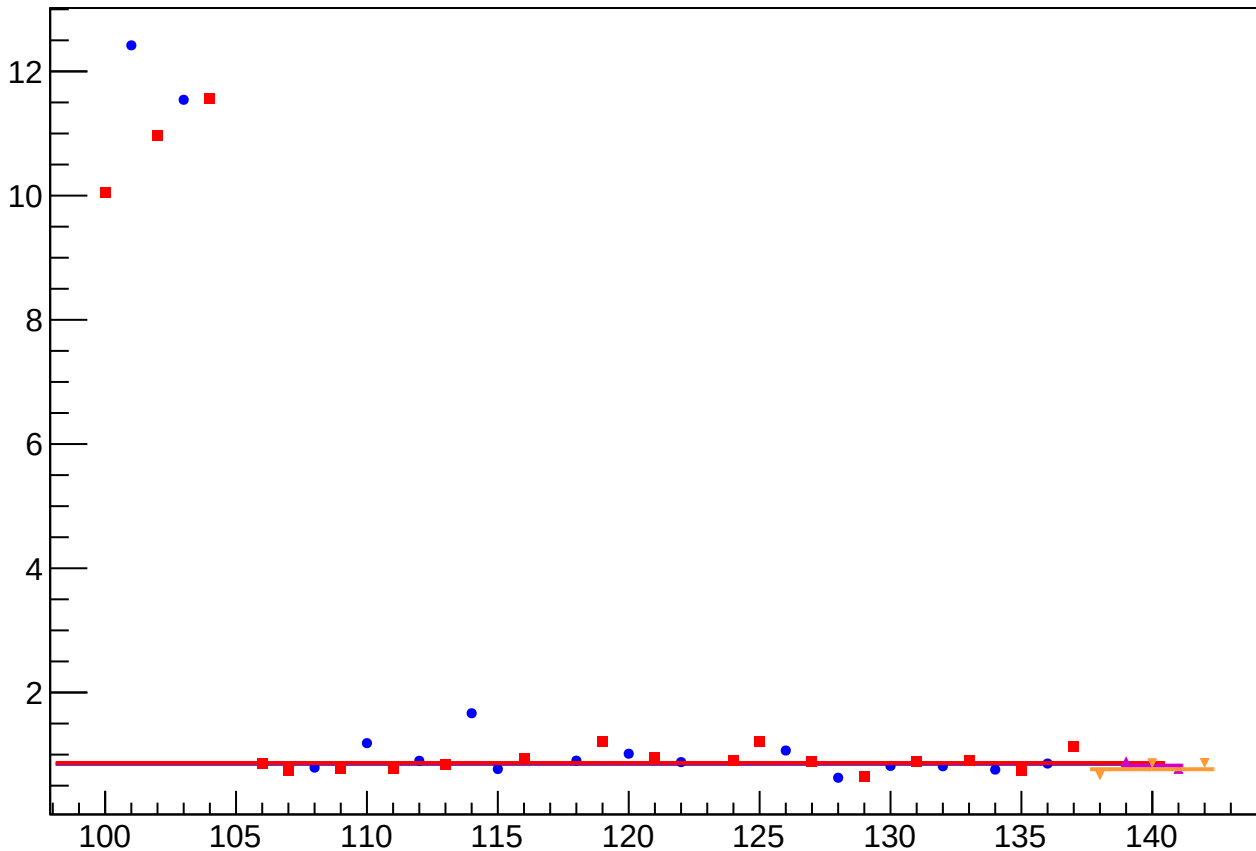
Right: 168.153+/-0.000 χ^2/NDF : 30946000130.2/34

In: 170.151+/-0.000 χ^2/NDF : 14873437946.0/17

Out: 169.696+/-0.000 χ^2/NDF : 16371728669.6/21

All: 169.914+/-0.000 χ^2/NDF : 31245882217.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.853+/-0.000 χ^2/NDF : 2302297.2/15

Left Out: 0.765+/-0.001 χ^2/NDF : 33934.6/2

Right Out: 0.864+/-0.000 χ^2/NDF : 2209232.6/18

Left In: 0.822+/-0.001 χ^2/NDF : 9777.1/1

Left: 0.789+/-0.000 χ^2/NDF : 48772.1/4

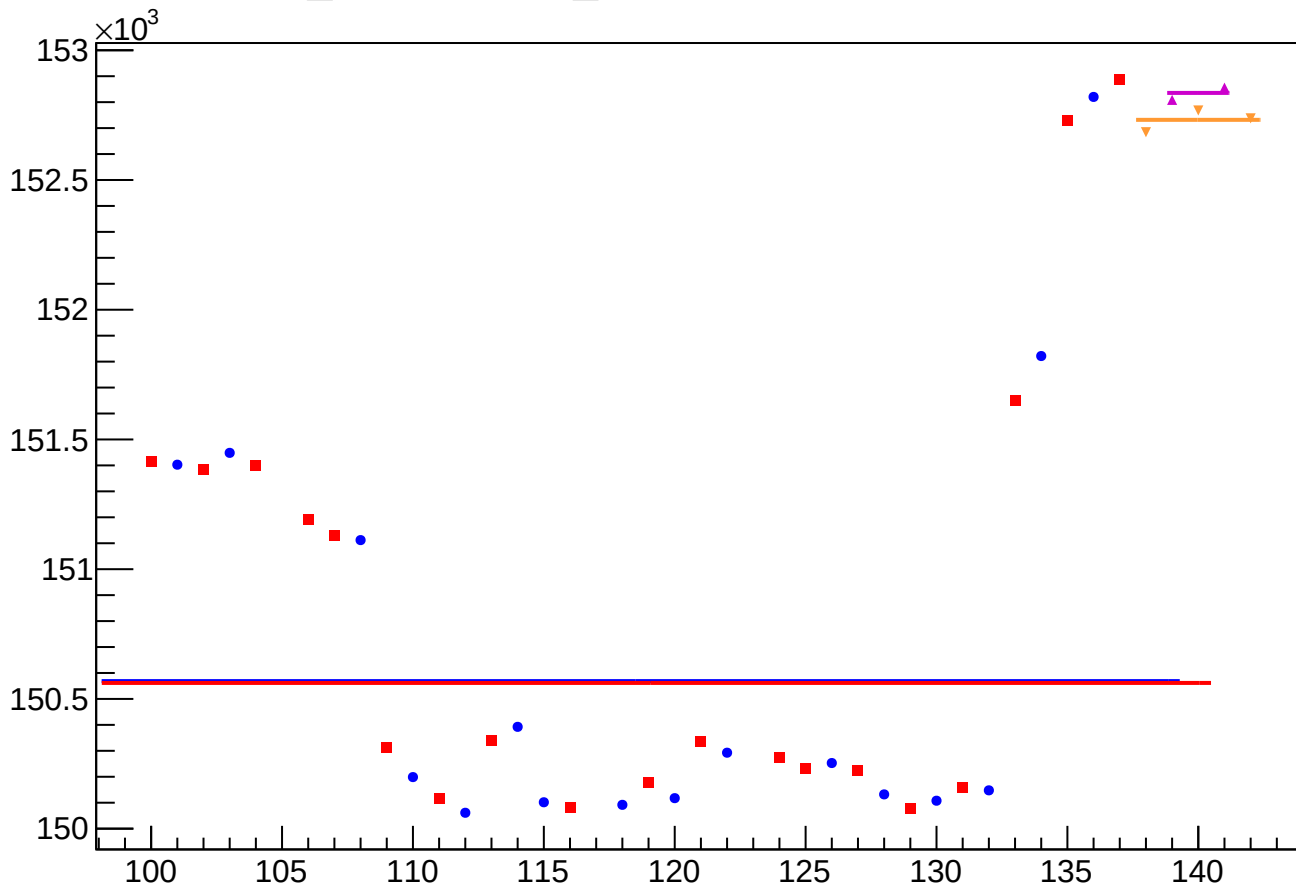
Right: 0.859+/-0.000 χ^2/NDF : 4512219.1/34

In: 0.847+/-0.000 χ^2/NDF : 2314074.6/17

Out: 0.840+/-0.000 χ^2/NDF : 2269647.5/21

All: 0.843+/-0.000 χ^2/NDF : 4584049.8/39

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 150568.638 $\pm$ 0.055 χ^2 /NDF: 237155171.8/15

Left Out: 152731.826 $\pm$ 0.122 χ^2 /NDF: 91766.8/2

Right Out: 150561.647 $\pm$ 0.051 χ^2 /NDF: 197500782.5/18

Left In: 152835.584 $\pm$ 0.130 χ^2 /NDF: 32542.5/1

Left: 152780.510 $\pm$ 0.089 χ^2 /NDF: 464214.8/4

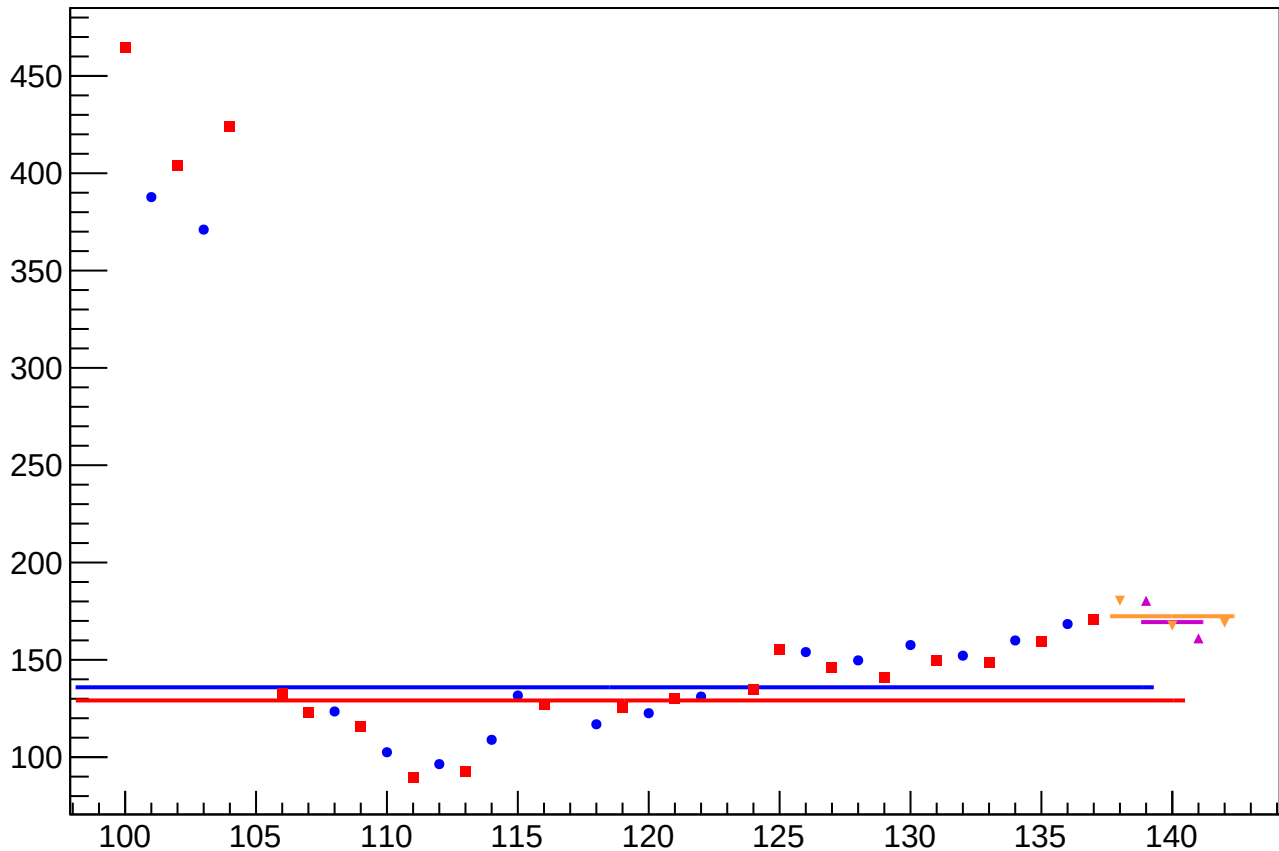
Right: 150564.903 $\pm$ 0.037 χ^2 /NDF: 434664709.4/3

In: 150910.191 $\pm$ 0.050 χ^2 /NDF: 496812324.2/17

Out: 150884.705 $\pm$ 0.047 χ^2 /NDF: 467332407.8/21

All: 150896.587 $\pm$ 0.034 χ^2 /NDF: 964281611.1/23

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 135.896 $\pm$ 0.039 χ^2/NDF : 1416332.3/15

Left Out: 172.394 $\pm$ 0.086 χ^2/NDF :4656.2/2

Right Out: 129.130 $\pm$ 0.036 χ^2/NDF : 1614311.0/18

Left In: 169.395 $\pm$ 0.092 χ^2/NDF :10871.4/1

Left: 170.987 $\pm$ 0.063 χ^2/NDF : 16095.6/4

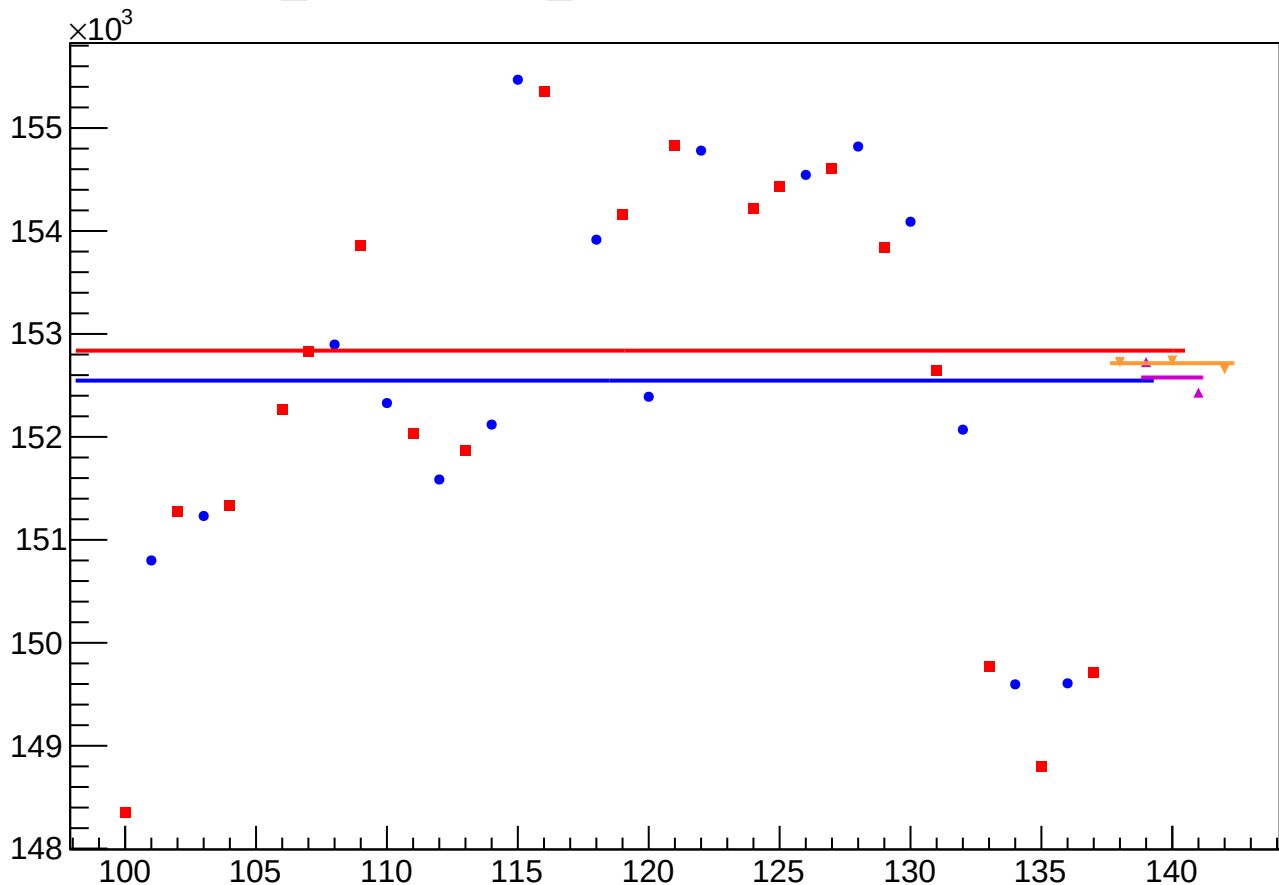
Right: 132.281 $\pm$ 0.026 χ^2/NDF : 3047045.4/34

In: 140.943 $\pm$ 0.036 χ^2/NDF :1540588.2/17

Out: 135.571 $\pm$ 0.033 χ^2/NDF :1833371.2/21

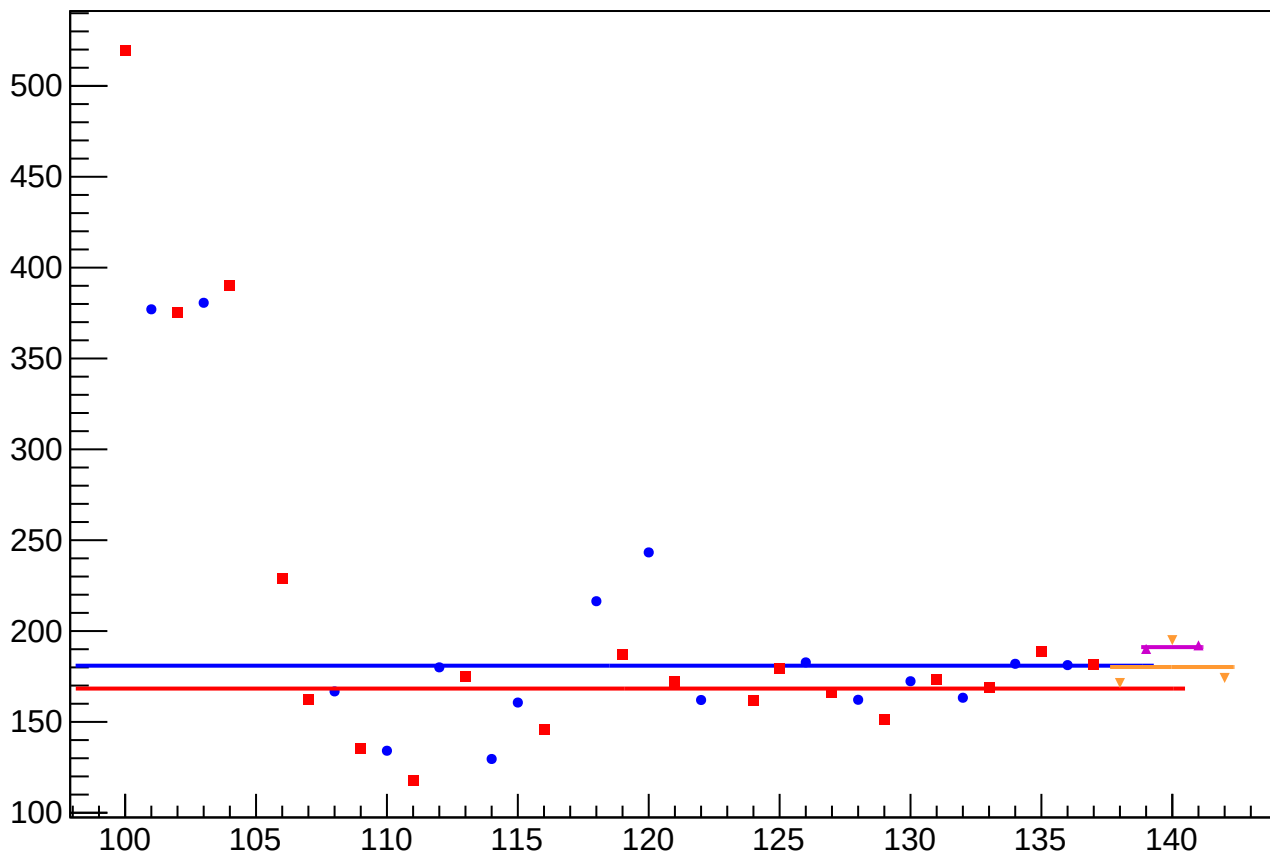
All: 138.075 $\pm$ 0.024 χ^2/NDF : 3386124.6/39

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152546.899 $\pm$ 0.073	χ^2 /NDF: 654540559.6/15	Left: 152655.486 $\pm$ 0.097	χ^2 /NDF: 1600930.1/4
Left Out: 152715.729 $\pm$ 0.128	χ^2 /NDF: 65666.3/2	Right: 152704.814 $\pm$ 0.049	χ^2 /NDF: 1400162101.0/1
Right Out: 152837.888 $\pm$ 0.067	χ^2 /NDF: 736907066.8/18	In: 152552.877 $\pm$ 0.065	χ^2 /NDF: 655603481.7/17
Left In: 152577.162 $\pm$ 0.146	χ^2 /NDF: 1028613.8/1	Out: 152811.941 $\pm$ 0.059	χ^2 /NDF: 737686062.1/21
		All: 152694.668 $\pm$ 0.044	χ^2 /NDF: 140197056.1/1

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 180.938 ± 0.051 $\chi^2/\text{NDF}: 907758.2/15$

Left Out: 180.214 ± 0.091 $\chi^2/\text{NDF}: 14190.8/2$

Right Out: 168.349 ± 0.047 $\chi^2/\text{NDF}: 1089090.2/18$

Left In: 191.163 ± 0.103 $\chi^2/\text{NDF}: 90.9/1$

Left: 184.974 ± 0.068 $\chi^2/\text{NDF}: 20607.4/4$

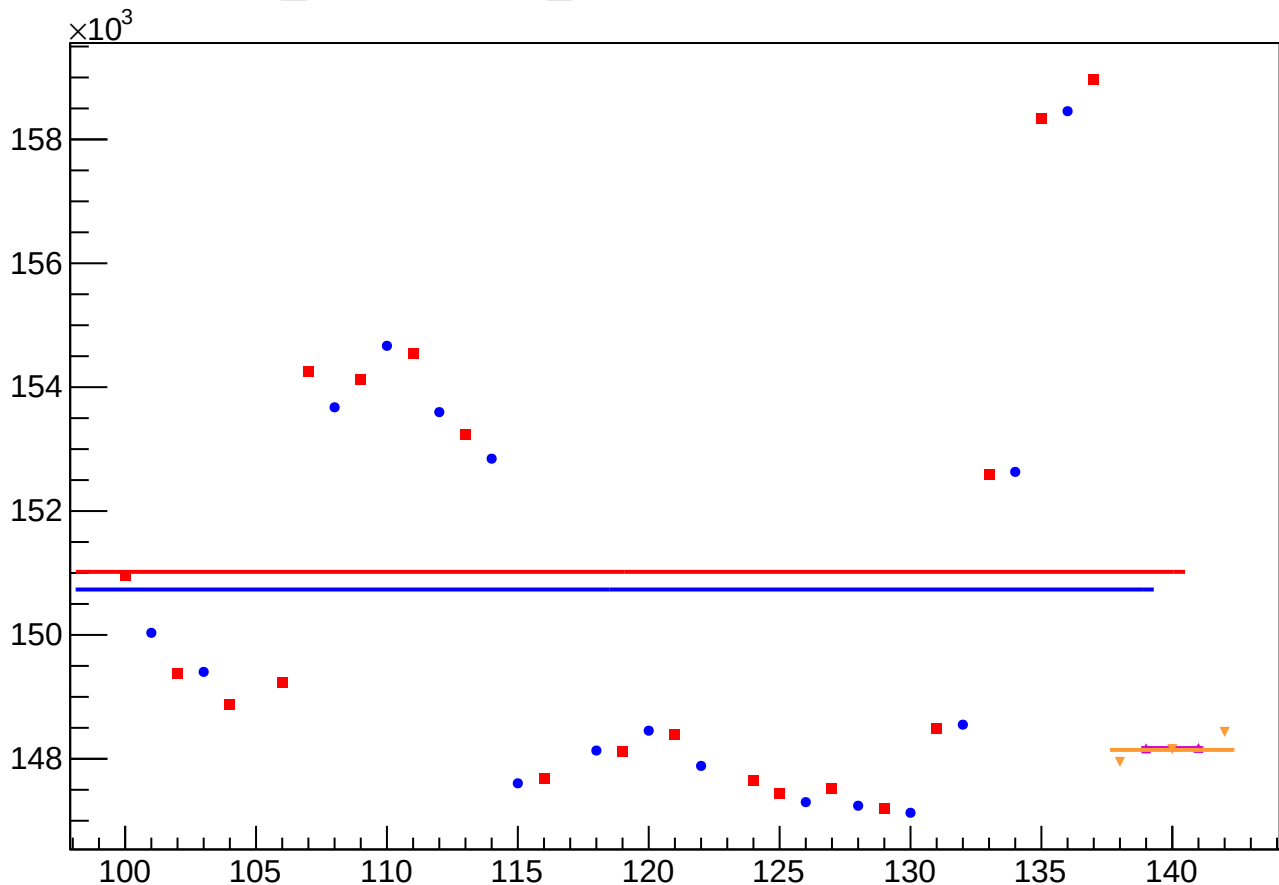
Right: 174.106 ± 0.035 $\chi^2/\text{NDF}: 2029471.3/34$

In: 182.958 ± 0.046 $\chi^2/\text{NDF}: 915680.8/17$

Out: 170.869 ± 0.042 $\chi^2/\text{NDF}: 1116740.0/21$

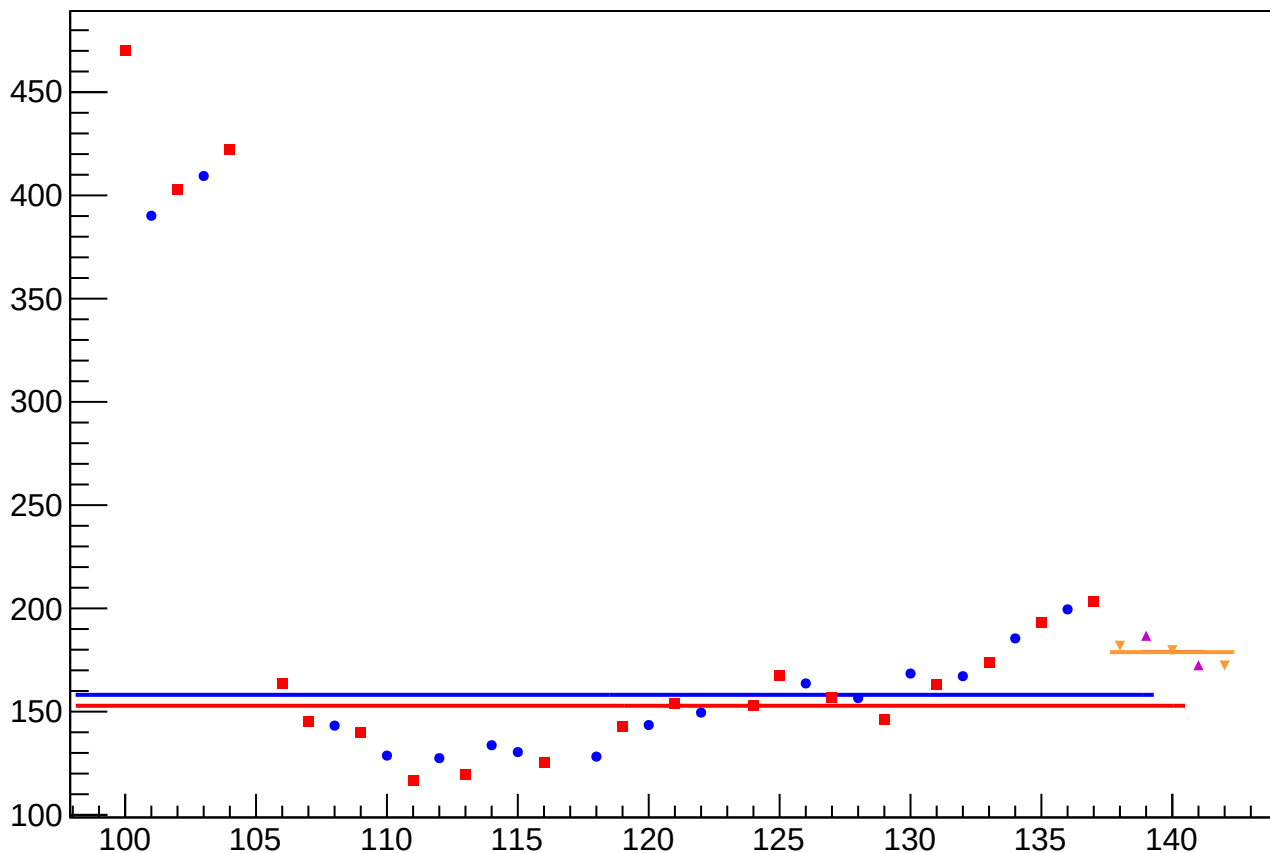
All: 176.342 ± 0.031 $\chi^2/\text{NDF}: 2070225.5/39$

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150733.301 $\pm$ 0.063 χ^2 /NDF: 3283848751.0/15
 Left Out: 148143.744 $\pm$ 0.126 χ^2 /NDF: 2089281.2/2
 Right Out: 151018.500 $\pm$ 0.060 χ^2 /NDF: 3286131878.7/18
 Left In: 148173.306 $\pm$ 0.137 χ^2 /NDF: 933.4/1
 Left: 148157.366 $\pm$ 0.093 χ^2 /NDF: 2115382.8/4
 Right: 150882.491 $\pm$ 0.043 χ^2 /NDF: 6580735457.3/15
 In: 150286.699 $\pm$ 0.057 χ^2 /NDF: 3572835977.2/17
 Out: 150489.666 $\pm$ 0.054 χ^2 /NDF: 3709735097.6/2
 All: 150393.459 $\pm$ 0.039 χ^2 /NDF: 728920558.4/15

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 158.138 $\pm$ 0.044 χ^2 /NDF: 1195699.5/15

Left Out: 178.823 $\pm$ 0.089 χ^2 /NDF:1677.9/2

Right Out: 152.841 $\pm$ 0.042 χ^2 /NDF: 1264236.1/18

Left In: 178.899 $\pm$ 0.097 χ^2 /NDF:5364.5/1

Left: 178.858 $\pm$ 0.066 χ^2 /NDF: 7042.8/4

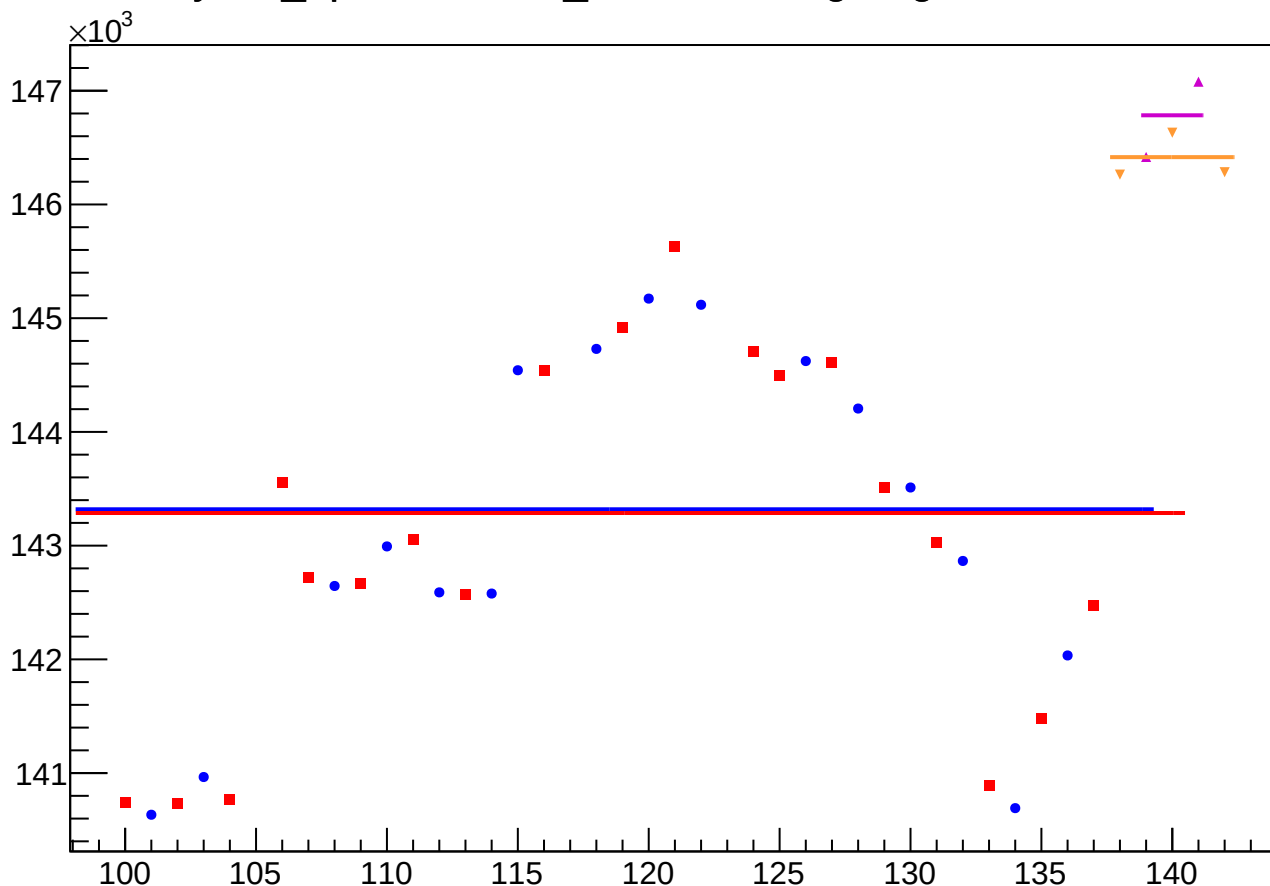
Right: 155.367 $\pm$ 0.031 χ^2 /NDF: 2467354.6/34

In: 161.760 $\pm$ 0.040 χ^2 /NDF:1239076.2/17

Out: 157.621 $\pm$ 0.038 χ^2 /NDF:1334774.0/21

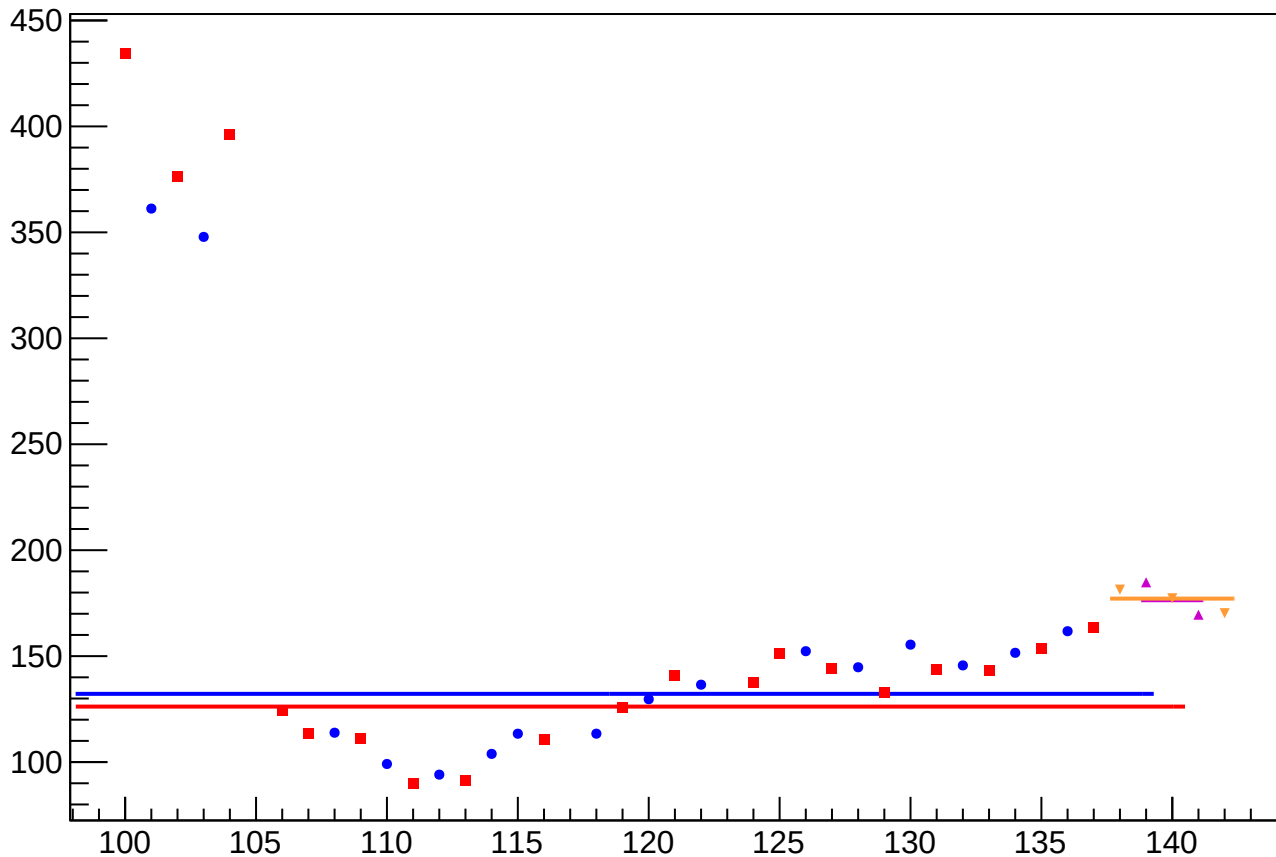
All: 159.582 $\pm$ 0.028 χ^2 /NDF: 2579368.3/39

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143319.651 $\pm$ 0.053 χ^2 /NDF: 559301530.7/15
 Left Out: 146416.129 $\pm$ 0.125 χ^2 /NDF: 1998967.3/2
 Right Out: 143286.960 $\pm$ 0.050 χ^2 /NDF: 620521577.8/18
 Left In: 146784.069 $\pm$ 0.135 χ^2 /NDF: 5949951.8/1
 Left: 146586.479 $\pm$ 0.092 χ^2 /NDF: 11946737.3/4
 Right: 143302.220 $\pm$ 0.036 χ^2 /NDF: 1180025024.1/1
 In: 143785.069 $\pm$ 0.049 χ^2 /NDF: 1136581620.3/17
 Out: 143712.960 $\pm$ 0.046 χ^2 /NDF: 1162038881.5/2
 All: 143746.583 $\pm$ 0.034 χ^2 /NDF: 229975645.1/1

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 132.204 $\pm$ 0.038 χ^2 /NDF: 1379168.6/15

Left Out: 177.154 $\pm$ 0.089 χ^2 /NDF:2239.6/2

Right Out: 126.191 $\pm$ 0.035 χ^2 /NDF: 1545034.5/18

Left In: 176.389 $\pm$ 0.095 χ^2 /NDF:6350.4/1

Left: 176.800 $\pm$ 0.065 χ^2 /NDF: 8624.6/4

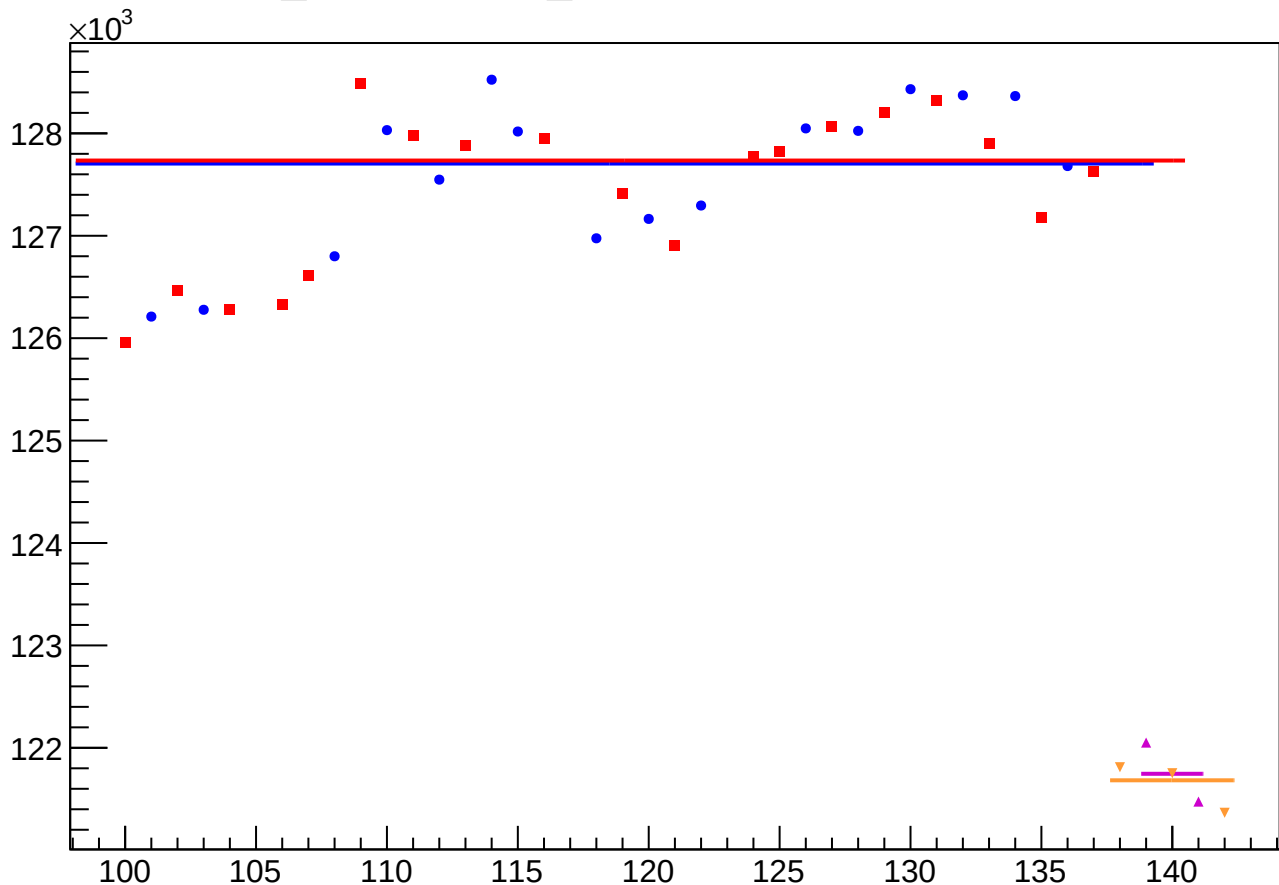
Right: 128.998 $\pm$ 0.026 χ^2 /NDF: 2937865.2/34

In: 138.140 $\pm$ 0.035 χ^2 /NDF:1571384.4/17

Out: 133.129 $\pm$ 0.033 χ^2 /NDF:1833489.5/21

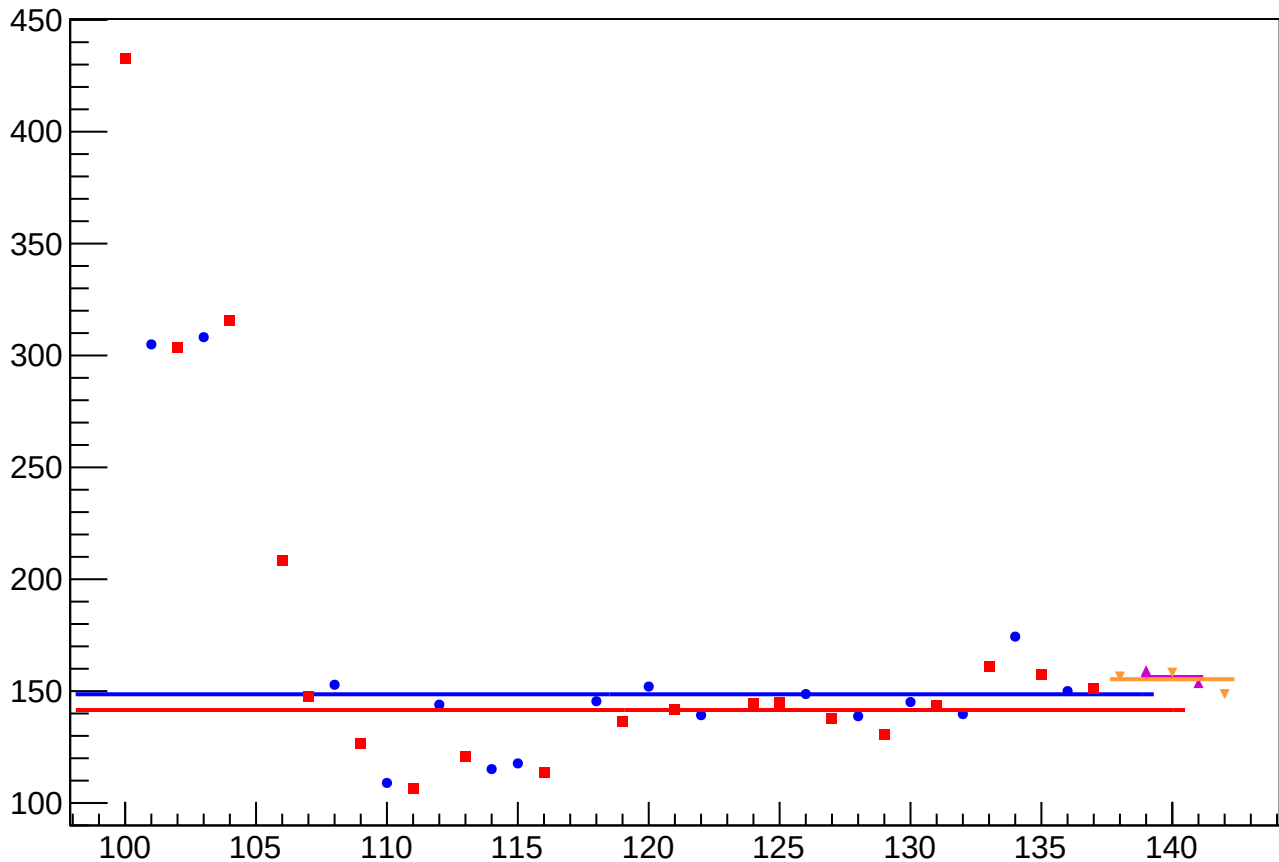
All: 135.466 $\pm$ 0.024 χ^2 /NDF: 3415844.4/39

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127705.222 $\pm$ 0.058	χ^2 /NDF: 104467207.7/15	Left: 121712.270 $\pm$ 0.082	χ^2 /NDF: 8444436.2/4
Left Out: 121682.871 $\pm$ 0.111	χ^2 /NDF: 2551034.4/2	Right: 127720.787 $\pm$ 0.040	χ^2 /NDF: 214070280.4/3
Right Out: 127734.542 $\pm$ 0.055	χ^2 /NDF: 109469333.8/18	In: 126564.056 $\pm$ 0.053	χ^2 /NDF: 2102889074.5/17
Left In: 121746.469 $\pm$ 0.120	χ^2 /NDF: 5742424.9/1	Out: 126549.519 $\pm$ 0.049	χ^2 /NDF: 2490221002.7/2
		All: 126556.319 $\pm$ 0.036	χ^2 /NDF: 459315084

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 148.593+/-0.041 χ^2/NDF : 827701.4/15

Left Out: 155.336+/-0.079 χ^2/NDF :2311.8/2

Right Out: 141.563+/-0.039 χ^2/NDF : 1001225.3/18

Left In: 156.298+/-0.085 χ^2/NDF :1119.5/1

Left: 155.780+/-0.058 χ^2/NDF : 3500.4/4

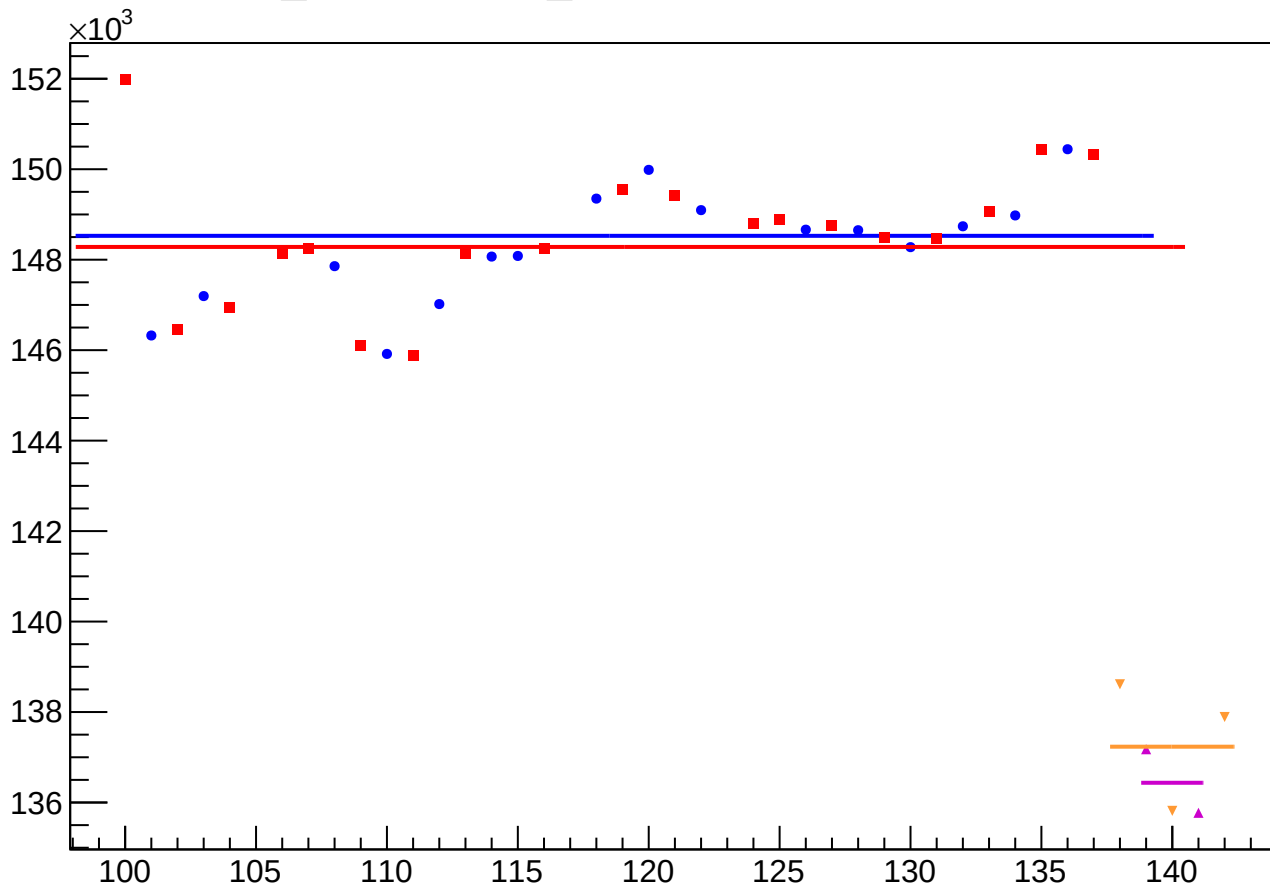
Right: 144.861+/-0.028 χ^2/NDF : 1844303.5/34

In: 150.069+/-0.037 χ^2/NDF :835483.8/17

Out: 144.260+/-0.035 χ^2/NDF :1028173.0/21

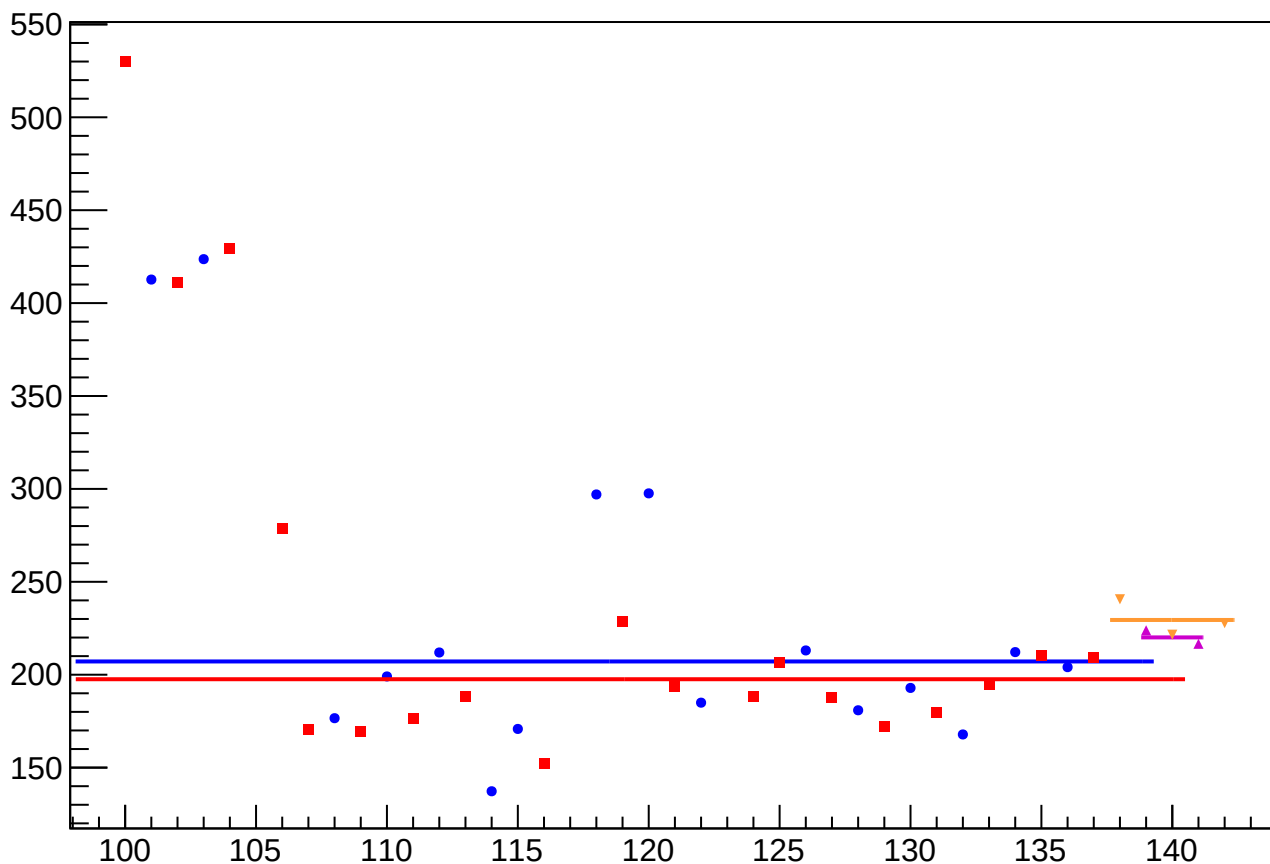
All: 146.977+/-0.025 χ^2/NDF : 1876673.7/39

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148527.678 $\pm$ 0.082	χ^2 /NDF: 209208133.0/15	Left: 136848.159 $\pm$ 0.117	χ^2 /NDF: 90231862.5/4
Left Out: 137233.898 $\pm$ 0.163	χ^2 /NDF: 61299533.6/2	Right: 148396.583 $\pm$ 0.056	χ^2 /NDF: 508678498.1/3
Right Out: 148282.003 $\pm$ 0.077	χ^2 /NDF: 294673557.8/18	In: 146213.339 $\pm$ 0.074	χ^2 /NDF: 4394408517.9/17
Left In: 136436.198 $\pm$ 0.168	χ^2 /NDF: 17346779.2/1	Out: 146282.648 $\pm$ 0.069	χ^2 /NDF: 4120065078.4/2
		All: 146250.102 $\pm$ 0.050	χ^2 /NDF: 851494292.5/16

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 207.135+/-0.058 χ^2/NDF : 972216.9/15

Left Out: 229.462+/-0.115 χ^2/NDF : 5326.5/2

Right Out: 197.571+/-0.054 χ^2/NDF : 903999.3/18

Left In: 220.077+/-0.119 χ^2/NDF : 923.8/1

Left: 224.923+/-0.083 χ^2/NDF : 9457.5/4

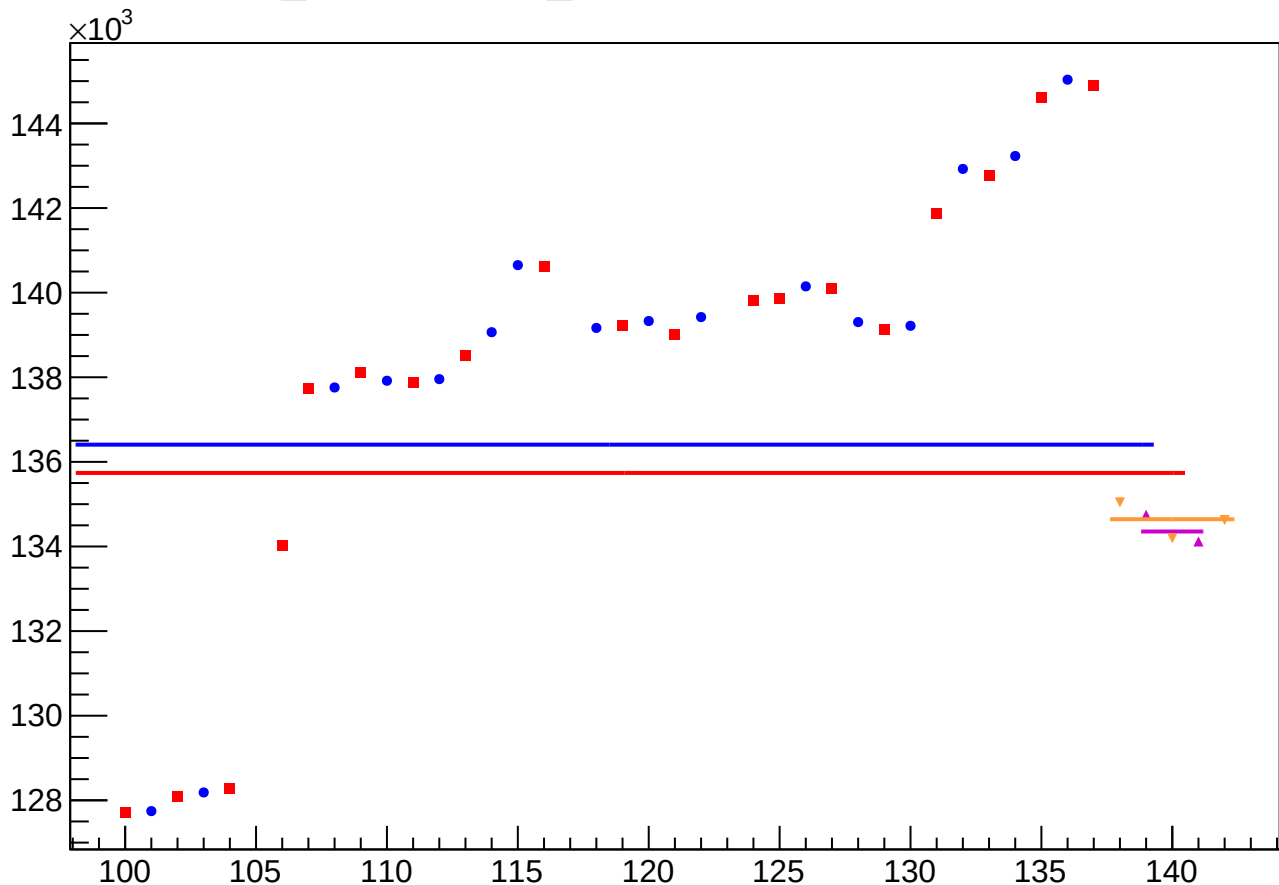
Right: 202.032+/-0.040 χ^2/NDF : 1890755.2/34

In: 209.612+/-0.052 χ^2/NDF : 982690.1/17

Out: 203.342+/-0.049 χ^2/NDF : 972050.7/21

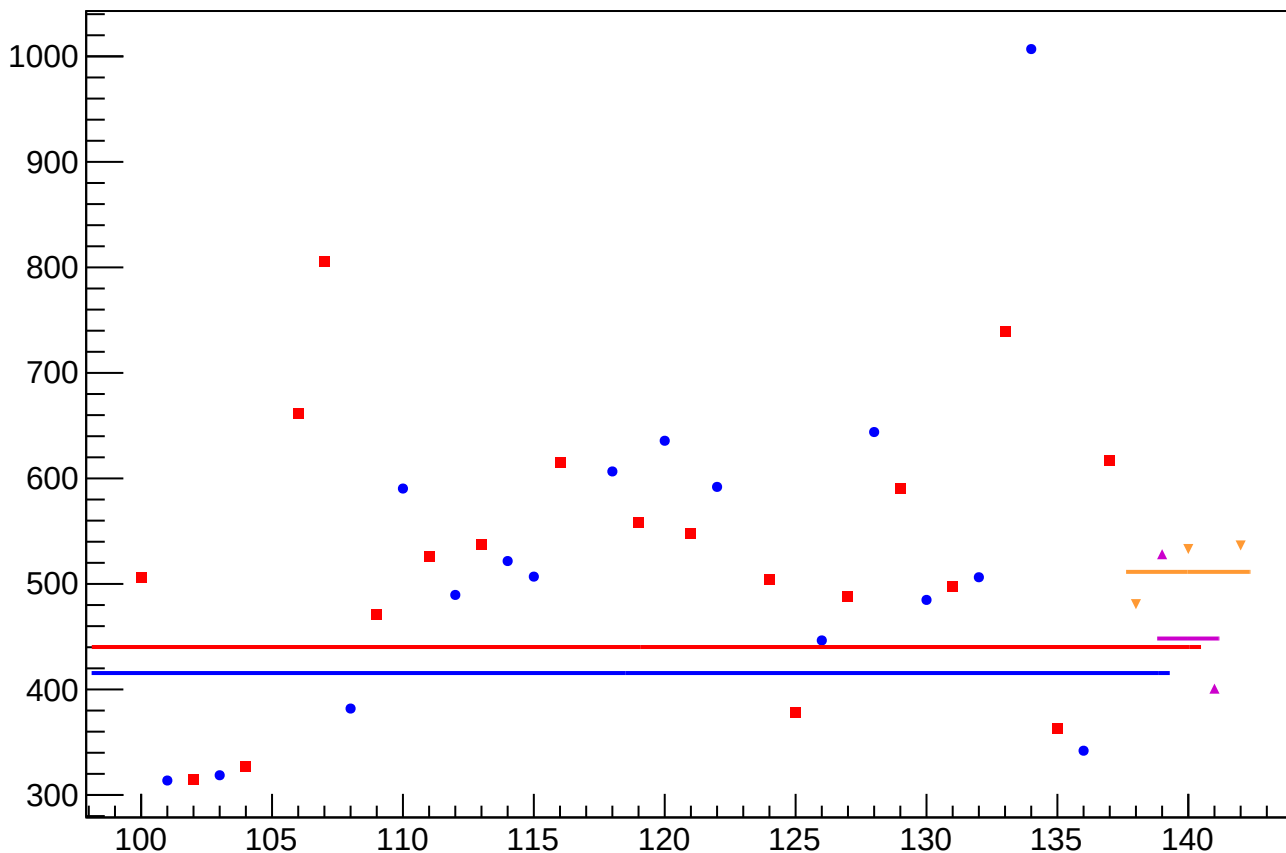
All: 206.286+/-0.036 χ^2/NDF : 1962422.1/39

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136406.923+/-0.169	χ^2/NDF : 1577071044.7/15	Left: 134506.565+/-0.271	χ^2/NDF : 1898096.7/4
Left Out: 134644.341+/-0.374	χ^2/NDF : 1012031.3/2	Right: 136088.335+/-0.122	χ^2/NDF : 2758689484.9/1
Right Out: 135738.412+/-0.177	χ^2/NDF : 1174123878.0/18	In: 136088.843+/-0.155	χ^2/NDF : 1600650205.7/17
Left In: 134353.931+/-0.394	χ^2/NDF : 600089.9/1	Out: 135538.857+/-0.160	χ^2/NDF : 1182130709.1/2
		All: 135822.204+/-0.111	χ^2/NDF : 278888743.0/1

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 415.547 $\pm$ 0.119 χ^2/NDF : 1031600.7/15

Left Out: 511.444 $\pm$ 0.264 χ^2/NDF : 10025.4/2

Right Out: 440.218 $\pm$ 0.125 χ^2/NDF : 910790.1/18

Left In: 448.264 $\pm$ 0.278 χ^2/NDF : 48966.4/1

Left: 481.470 $\pm$ 0.192 χ^2/NDF : 86063.0/4

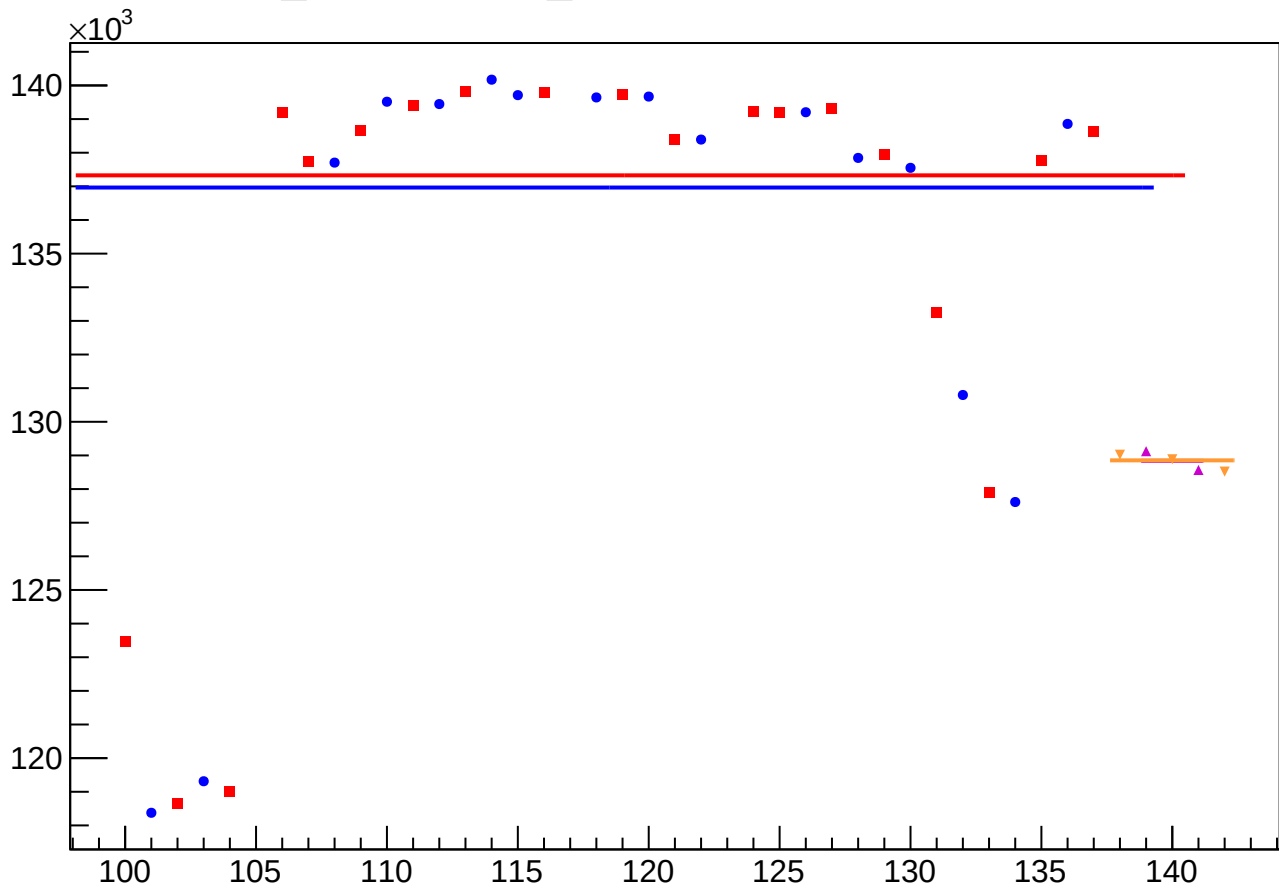
Right: 427.304 $\pm$ 0.086 χ^2/NDF : 1962803.8/34

In: 420.616 $\pm$ 0.110 χ^2/NDF : 1092238.2/17

Out: 453.209 $\pm$ 0.113 χ^2/NDF : 980108.2/21

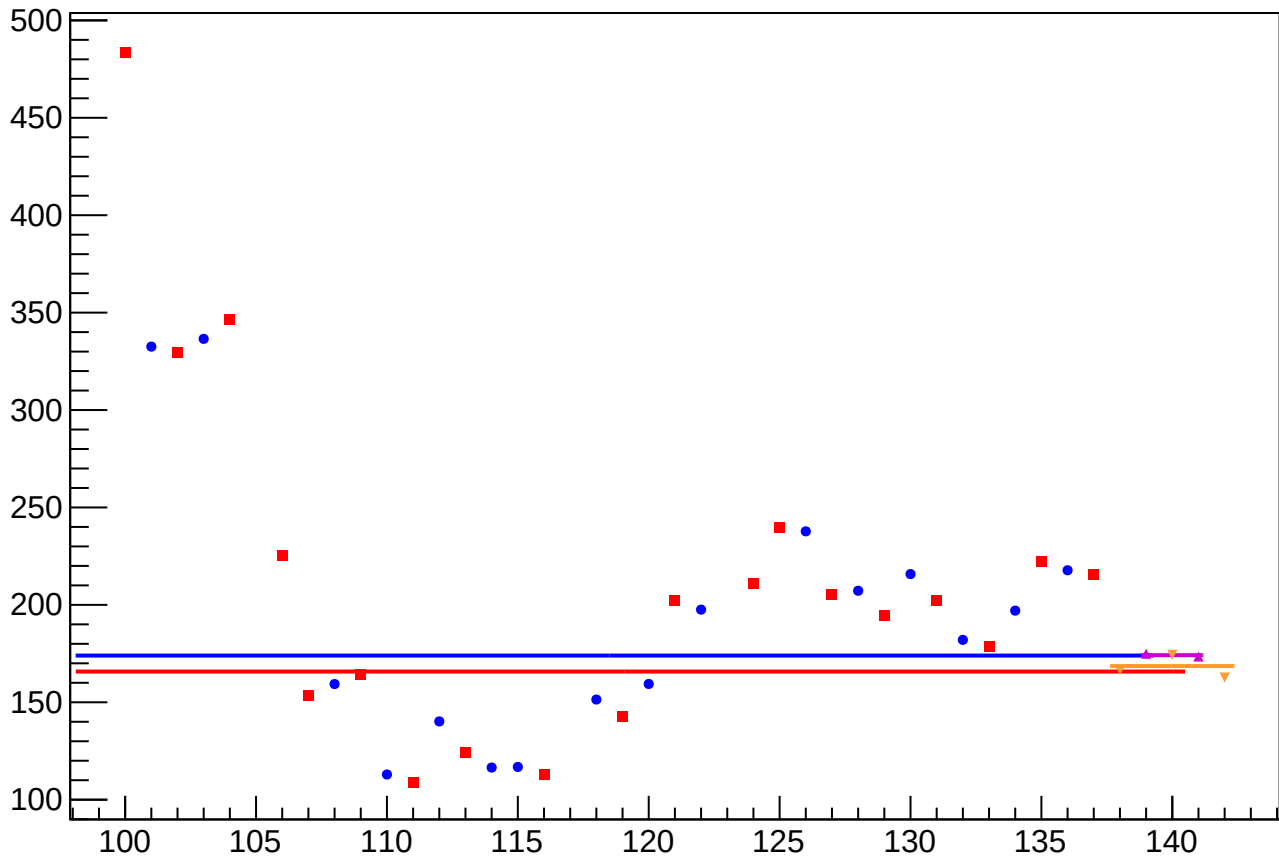
All: 436.418 $\pm$ 0.079 χ^2/NDF : 2115237.5/39

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 136964.958 $\pm$ 0.070	χ^2/NDF : 5807770301.4/15	Left: 128846.661 $\pm$ 0.089	χ^2/NDF : 6958968.0/4
Left Out: 128853.503 $\pm$ 0.120	χ^2/NDF : 2580950.3/2	Right: 137157.181 $\pm$ 0.048	χ^2/NDF : 11559848727.7
Right Out: 137327.469 $\pm$ 0.066	χ^2/NDF : 5737745895.7/18	In: 135218.997 $\pm$ 0.062	χ^2/NDF : 8730546721.0/17
Left In: 128838.202 $\pm$ 0.133	χ^2/NDF : 4370733.1/1	Out: 135373.440 $\pm$ 0.058	χ^2/NDF : 9584786443.9/2
		All: 135301.670 $\pm$ 0.042	χ^2/NDF : 183186779

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 173.982+/-0.049 χ^2/NDF : 1188493.1/15

Left Out: 168.588+/-0.085 χ^2/NDF :3100.0/2

Right Out: 165.780+/-0.046 χ^2/NDF : 1433162.4/18

Left In: 174.192+/-0.094 χ^2/NDF :59.0/1

Left: 171.094+/-0.063 χ^2/NDF : 5113.5/4

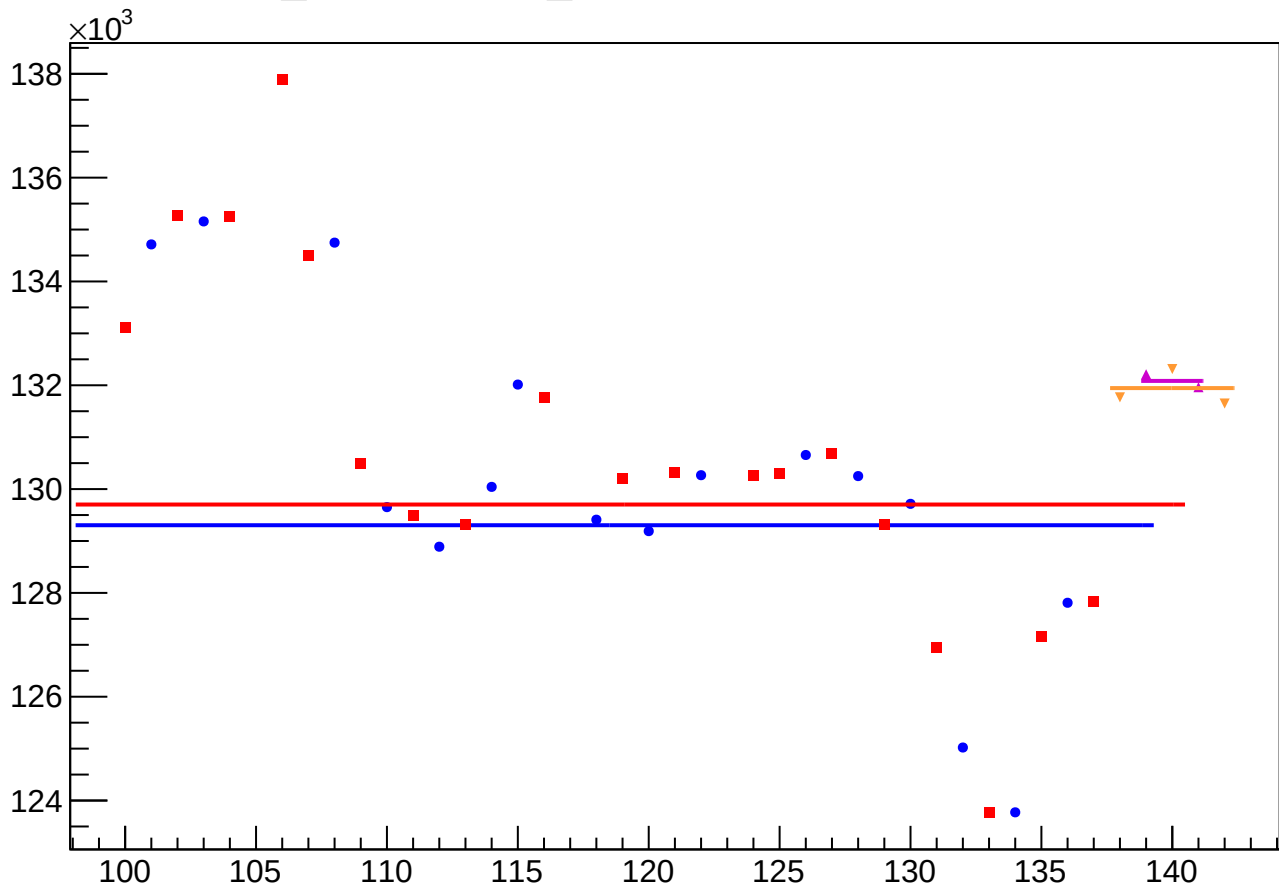
Right: 169.633+/-0.034 χ^2/NDF : 2636327.1/34

In: 174.027+/-0.044 χ^2/NDF :1188556.0/17

Out: 166.428+/-0.041 χ^2/NDF :1437106.5/21

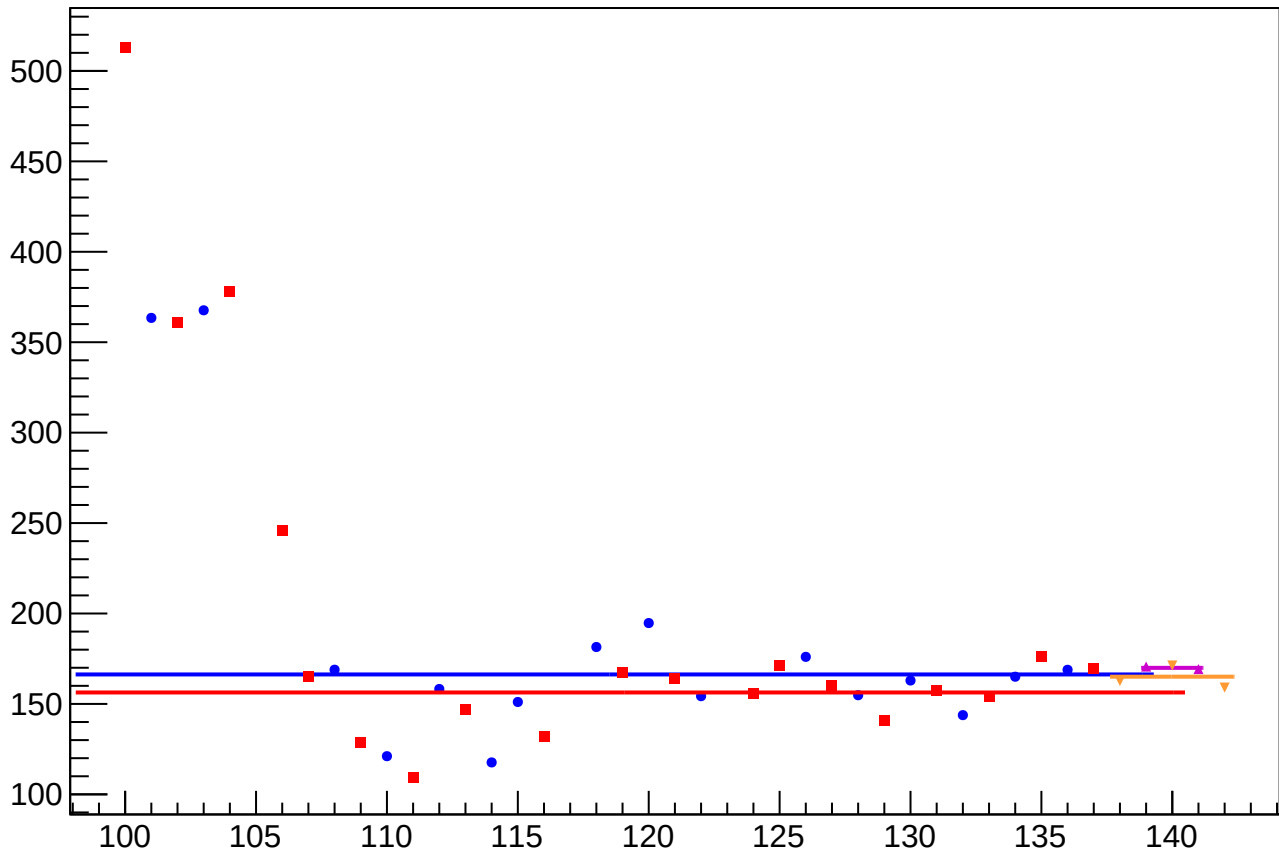
All: 169.959+/-0.030 χ^2/NDF : 2641858.0/39

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 129303.894+/-0.066	χ^2/NDF : 1650235360.7/15	Left: 132007.958+/-0.087	χ^2/NDF : 7581160.8/4
Left Out: 131945.758+/-0.118	χ^2/NDF : 6044647.1/2	Right: 129517.750+/-0.045	χ^2/NDF : 3447412906.7/1
Right Out: 129702.568+/-0.062	χ^2/NDF : 1777723481.2/18	In: 129875.837+/-0.059	χ^2/NDF : 2013963634.7/1
Left In: 132083.984+/-0.130	χ^2/NDF : 915437.1/1	Out: 130184.467+/-0.055	χ^2/NDF : 2069178890.8/2
		All: 130042.276+/-0.040	χ^2/NDF : 409789934.7/1

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 166.302 ± 0.047 $\chi^2/\text{NDF}: 937947.6/15$

Left Out: 165.063 ± 0.083 $\chi^2/\text{NDF}: 3623.3/2$

Right Out: 156.334 ± 0.044 $\chi^2/\text{NDF}: 1172834.9/18$

Left In: 169.946 ± 0.092 $\chi^2/\text{NDF}: 58.7/1$

Left: 167.260 ± 0.062 $\chi^2/\text{NDF}: 5232.7/4$

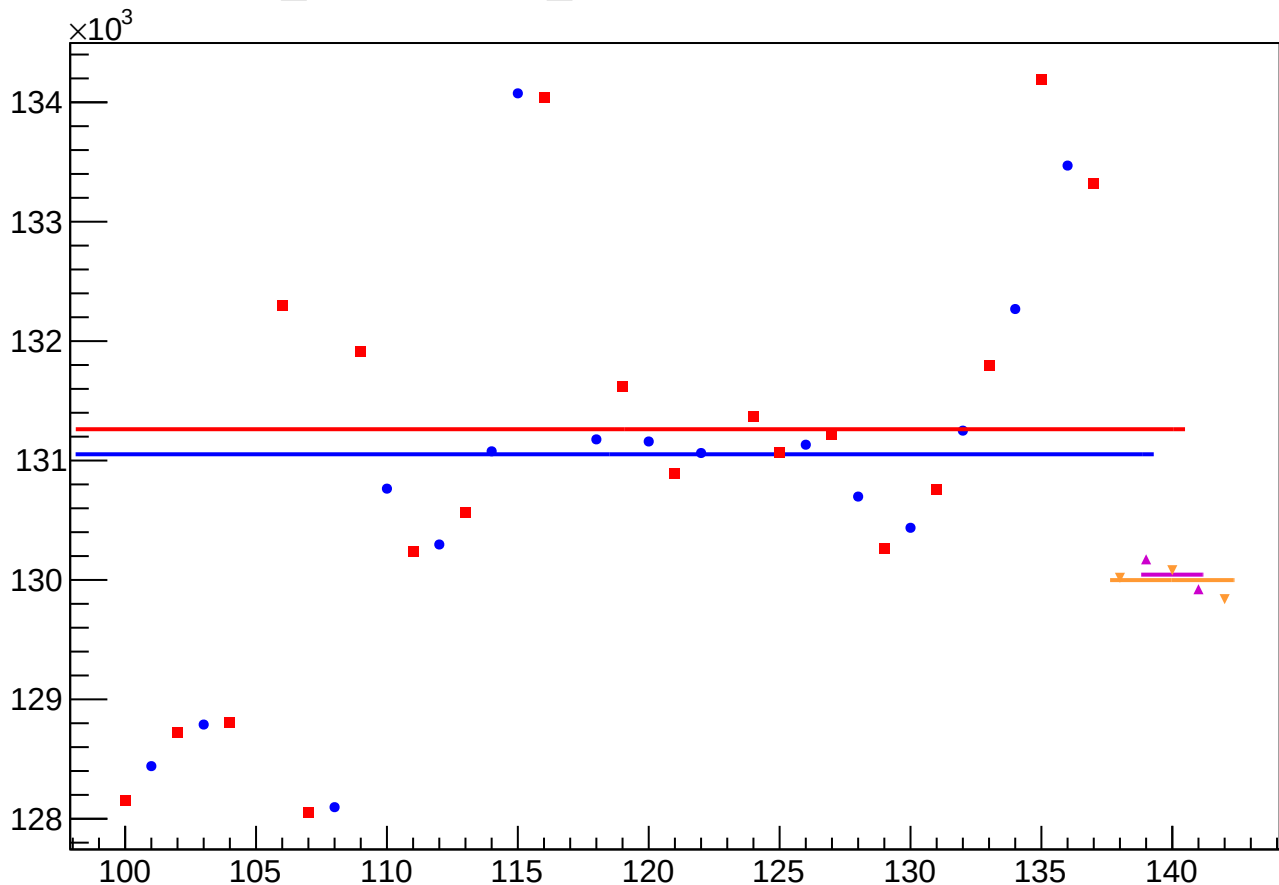
Right: 160.955 ± 0.032 $\chi^2/\text{NDF}: 2135107.2/34$

In: 167.052 ± 0.042 $\chi^2/\text{NDF}: 939253.0/17$

Out: 158.209 ± 0.039 $\chi^2/\text{NDF}: 1185100.9/21$

All: 162.283 ± 0.028 $\chi^2/\text{NDF}: 2148582.8/39$

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 131052.422 $\pm$ 0.061 χ^2/NDF : 523713045.8/15

Left Out: 129998.664 $\pm$ 0.112 χ^2/NDF : 688203.6/2

Right Out: 131262.232 $\pm$ 0.057 χ^2/NDF : 604278186.1/18

Left In: 130044.419 $\pm$ 0.126 χ^2/NDF : 985340.1/1

Left: 130018.918 $\pm$ 0.084 χ^2/NDF : 1746939.0/4

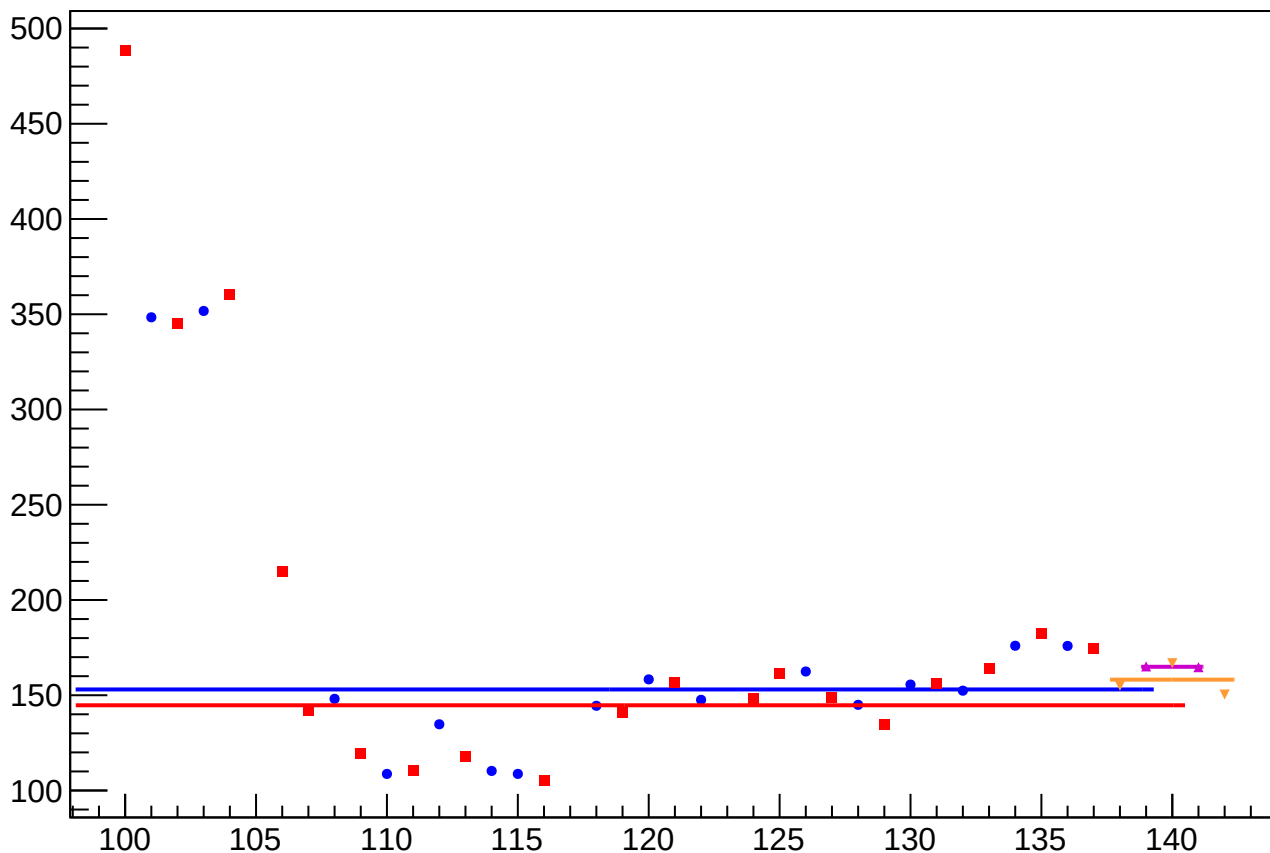
Right: 131164.431 $\pm$ 0.041 χ^2/NDF : 1134382049.3/15

In: 130863.069 $\pm$ 0.055 χ^2/NDF : 576603333.9/17

Out: 131006.060 $\pm$ 0.051 χ^2/NDF : 705778865.8/21

All: 130940.064 $\pm$ 0.037 χ^2/NDF : 128606863

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 153.043+/-0.043 χ^2/NDF : 1059470.3/15

Left Out: 158.193+/-0.079 χ^2/NDF : 7242.6/2

Right Out: 144.731+/-0.040 χ^2/NDF : 1263423.6/18

Left In: 164.937+/-0.089 χ^2/NDF : 5.4/1

Left: 161.179+/-0.059 χ^2/NDF : 10436.5/4

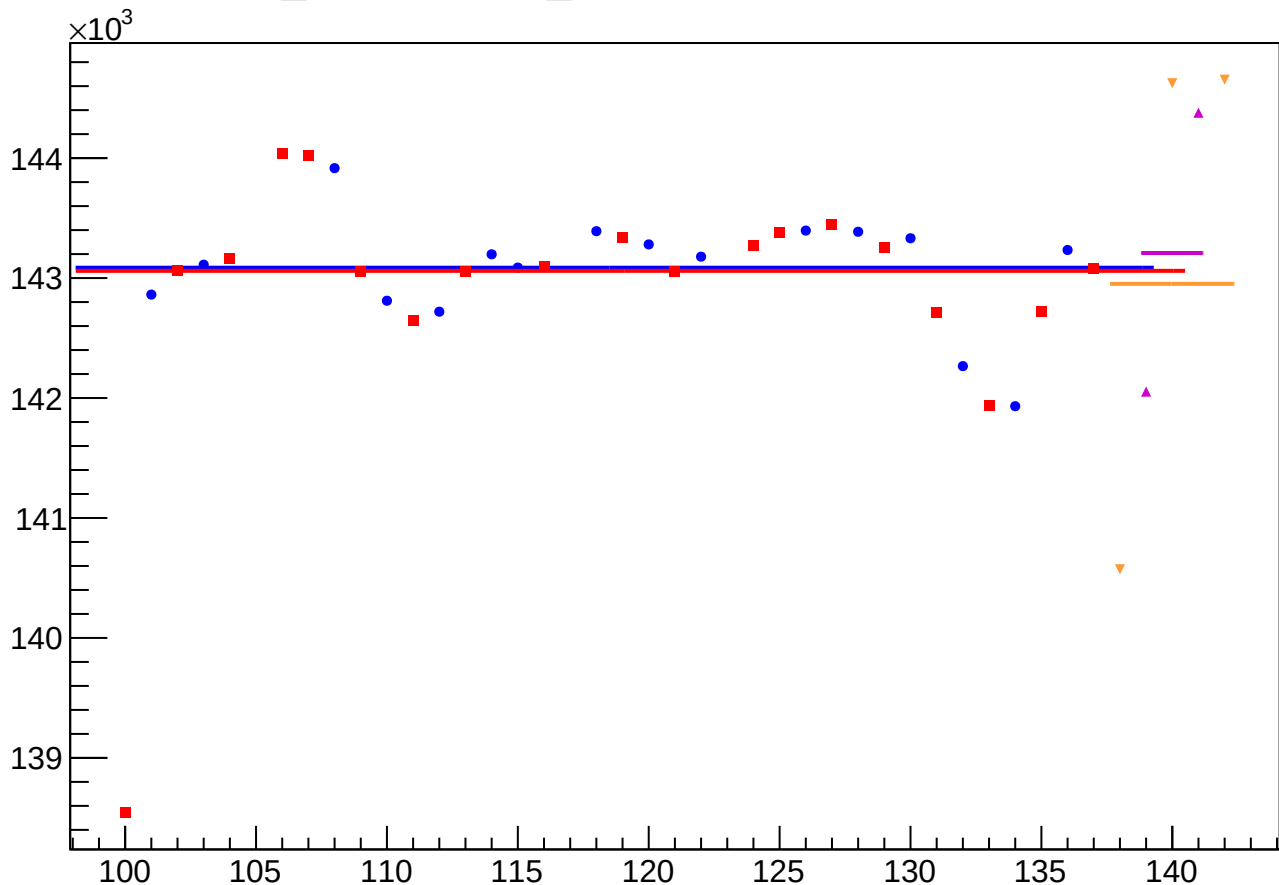
Right: 148.605+/-0.029 χ^2/NDF : 2342954.4/34

In: 155.277+/-0.039 χ^2/NDF : 1073930.2/17

Out: 147.460+/-0.036 χ^2/NDF : 1293555.0/21

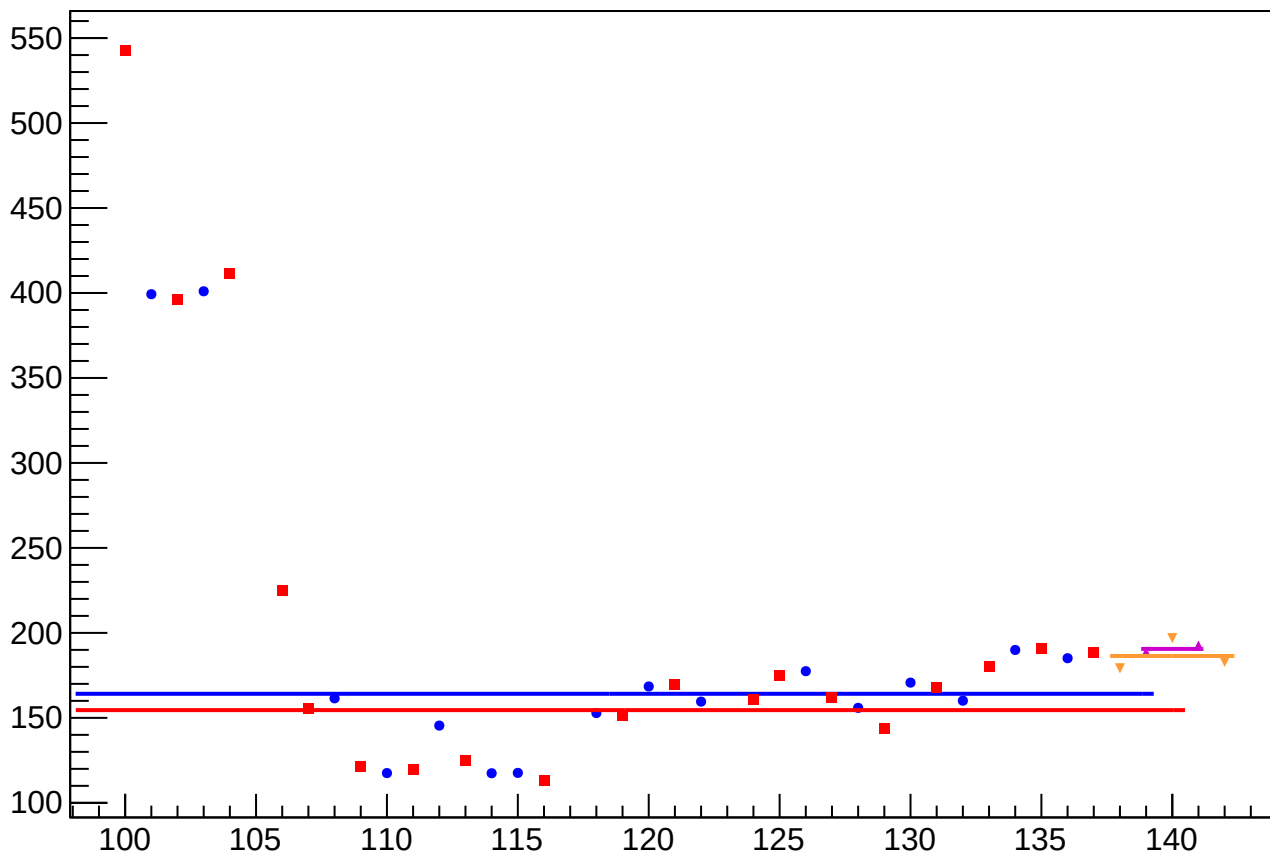
All: 151.068+/-0.026 χ^2/NDF : 2389519.1/39

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 143086.477 $\pm$ 0.065	χ^2 /NDF: 46726277.8/15	Left: 143068.423 $\pm$ 0.099	χ^2 /NDF: 289088629.9/4
Left Out: 142951.747 $\pm$ 0.134	χ^2 /NDF: 224497541.5/2	Right: 143072.451 $\pm$ 0.044	χ^2 /NDF: 98528807.3/34
Right Out: 143060.268 $\pm$ 0.061	χ^2 /NDF: 51715744.7/18	In: 143106.636 $\pm$ 0.059	χ^2 /NDF: 110218761.0/17
Left In: 143208.876 $\pm$ 0.147	χ^2 /NDF: 62909951.2/1	Out: 143041.719 $\pm$ 0.055	χ^2 /NDF: 276760417.9/21
		All: 143071.774 $\pm$ 0.040	χ^2 /NDF: 387618823.0/100

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 164.167 $\pm$ 0.046 χ^2 /NDF: 1129764.4/15

Left Out: 186.423 $\pm$ 0.094 χ^2 /NDF:7213.0/2

Right Out: 154.558 $\pm$ 0.043 χ^2 /NDF: 1366830.5/18

Left In: 190.575 $\pm$ 0.104 χ^2 /NDF:360.2/1

Left: 188.307 $\pm$ 0.070 χ^2 /NDF: 8450.2/4

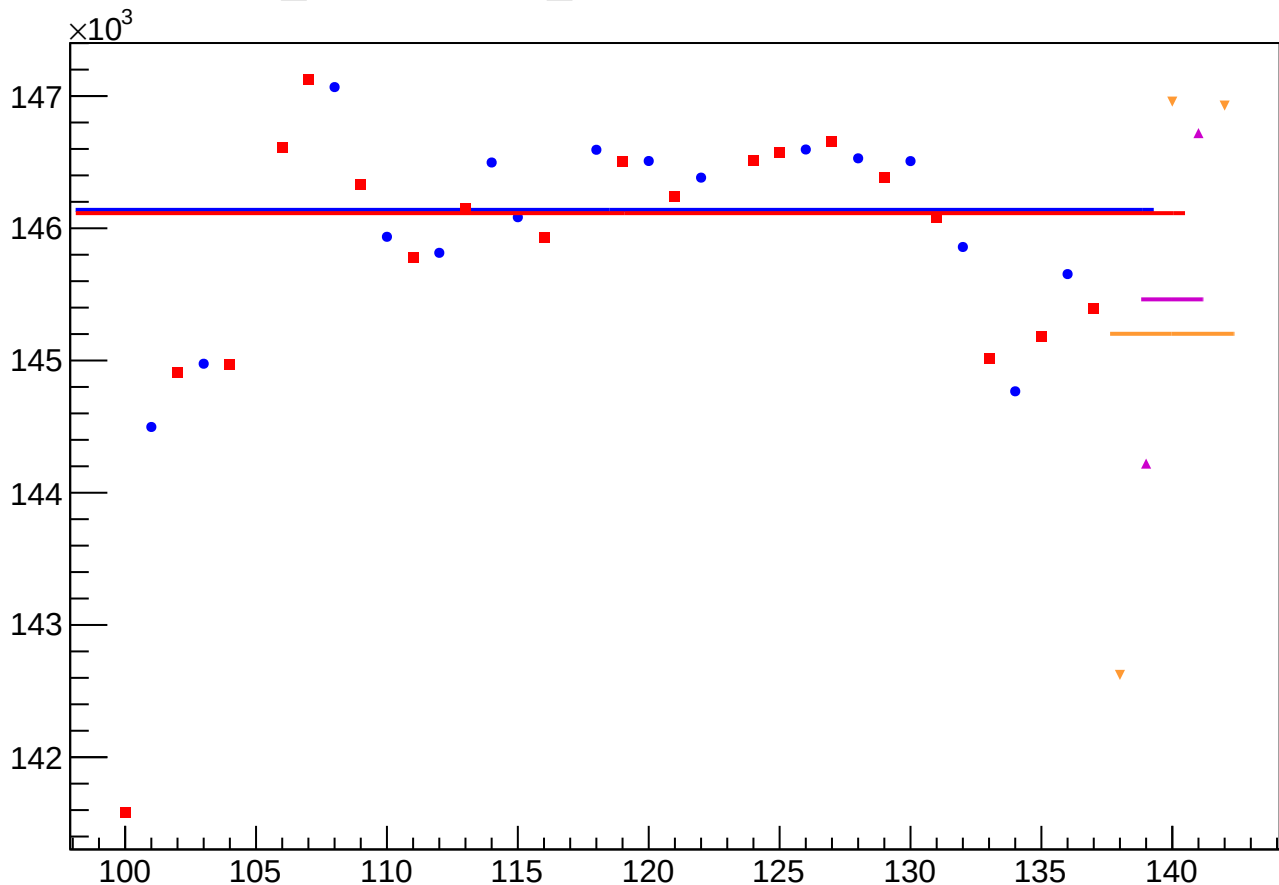
Right: 159.024 $\pm$ 0.031 χ^2 /NDF: 2519924.8/34

In: 168.516 $\pm$ 0.042 χ^2 /NDF:1184361.5/17

Out: 160.004 $\pm$ 0.039 χ^2 /NDF:1468390.5/21

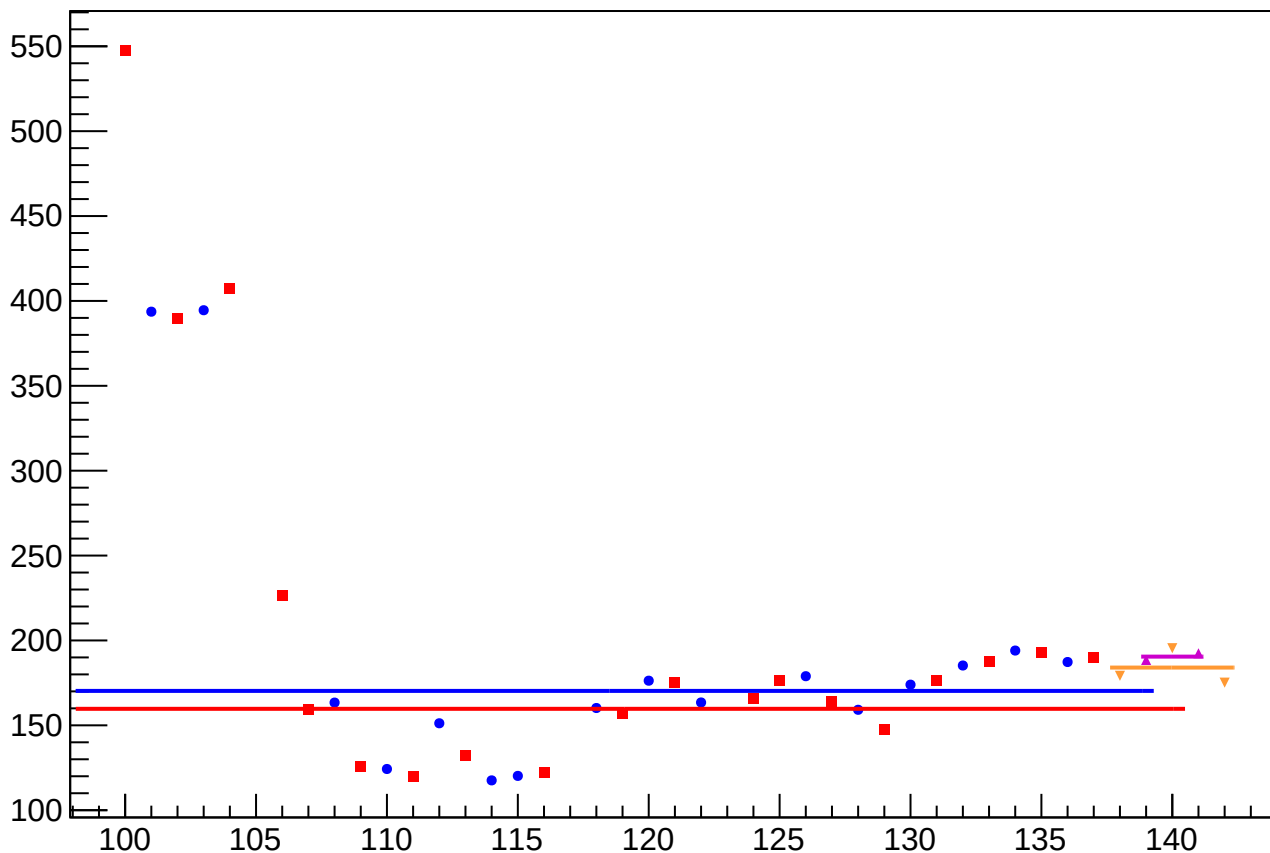
All: 163.945 $\pm$ 0.029 χ^2 /NDF: 2674745.5/39

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 146139.237 $\pm$ 0.067	χ^2 /NDF: 71721843.8/15	Left: 145318.485 $\pm$ 0.098	χ^2 /NDF: 334469410.4/4
Left Out: 145202.051 $\pm$ 0.132	χ^2 /NDF: 259754992.4/2	Right: 146125.912 $\pm$ 0.046	χ^2 /NDF: 144896615.7/3
Right Out: 146114.458 $\pm$ 0.062	χ^2 /NDF: 73102068.4/18	In: 146020.758 $\pm$ 0.061	χ^2 /NDF: 162343325.1/17
Left In: 145462.385 $\pm$ 0.146	χ^2 /NDF: 72964200.4/1	Out: 145946.628 $\pm$ 0.056	χ^2 /NDF: 372083628.0/21
		All: 145980.693 $\pm$ 0.041	χ^2 /NDF: 535219656

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 170.279+/-0.048 χ^2/NDF : 1057631.0/15

Left Out: 184.023+/-0.093 χ^2/NDF : 8652.0/2

Right Out: 159.724+/-0.044 χ^2/NDF : 1291290.8/18

Left In: 190.474+/-0.103 χ^2/NDF : 357.6/1

Left: 186.909+/-0.069 χ^2/NDF : 11158.9/4

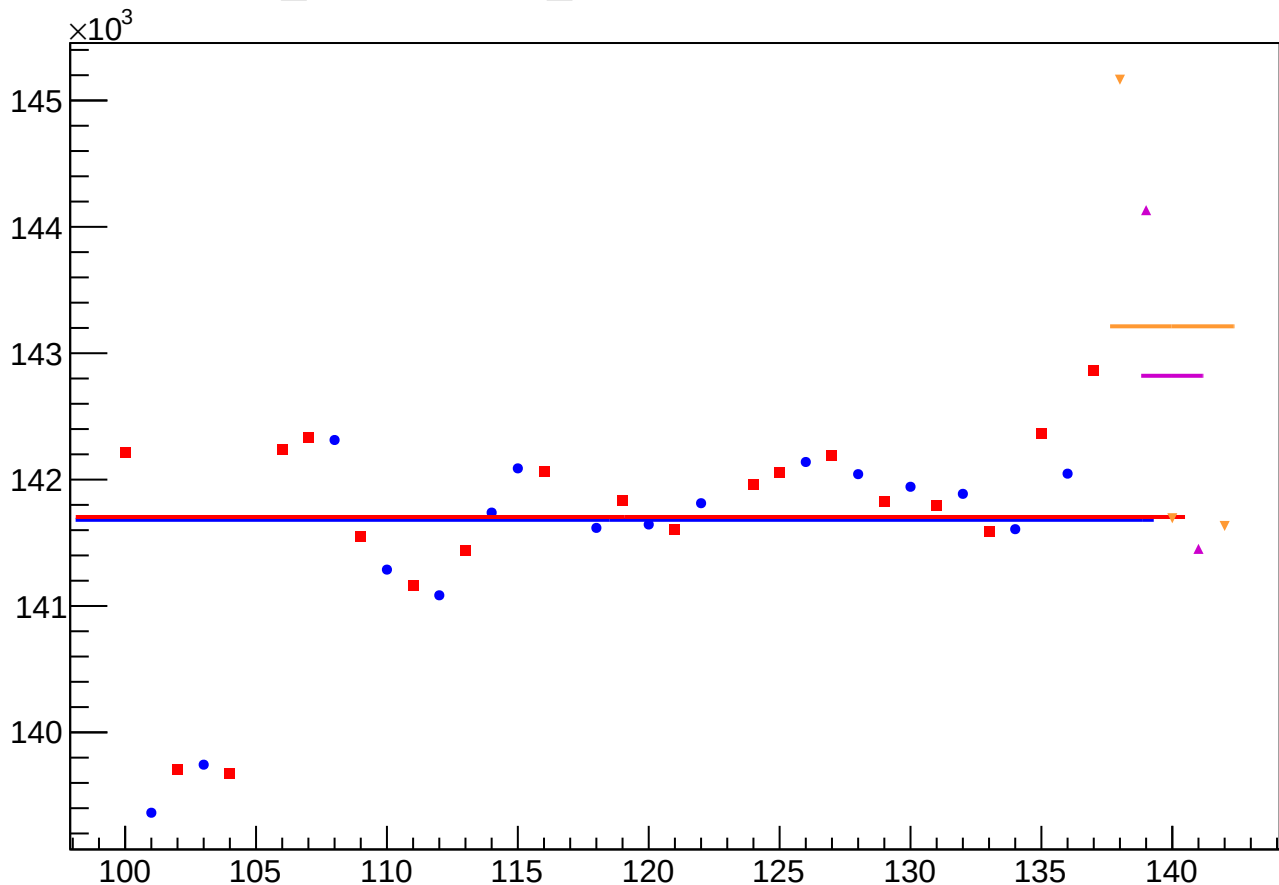
Right: 164.603+/-0.032 χ^2/NDF : 2375303.6/34

In: 173.814+/-0.043 χ^2/NDF : 1089428.1/17

Out: 164.194+/-0.040 χ^2/NDF : 1355587.3/21

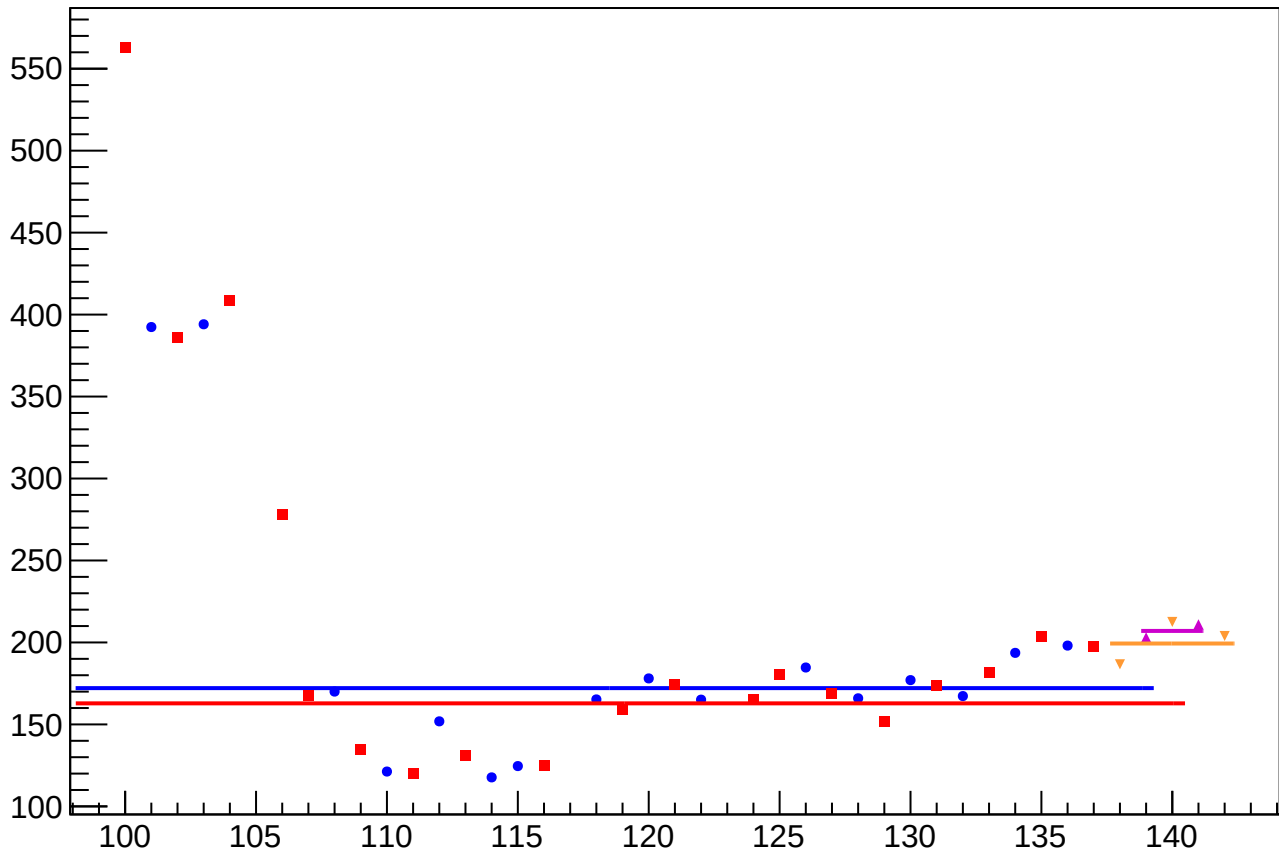
All: 168.614+/-0.029 χ^2/NDF : 2471715.8/39

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 141681.846 $\pm$ 0.068	χ^2 /NDF: 64292997.9/15	Left: 143039.235 $\pm$ 0.106	χ^2 /NDF: 223772390.1/4
Left Out: 143212.904 $\pm$ 0.142	χ^2 /NDF: 149316808.7/2	Right: 141693.772 $\pm$ 0.047	χ^2 /NDF: 129876966.3/3
Right Out: 141704.185 $\pm$ 0.064	χ^2 /NDF: 65526811.0/18	In: 141859.438 $\pm$ 0.063	χ^2 /NDF: 178801411.2/17
Left In: 142821.549 $\pm$ 0.159	χ^2 /NDF: 71081598.5/1	Out: 141957.754 $\pm$ 0.058	χ^2 /NDF: 308848751.8/21
		All: 141912.282 $\pm$ 0.043	χ^2 /NDF: 488970629

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 172.139+/-0.048 χ^2/NDF : 1068587.8/15

Left Out: 199.346+/-0.100 χ^2/NDF :13548.1/2

Right Out: 162.845+/-0.045 χ^2/NDF : 1305855.8/18

Left In: 207.029+/-0.112 χ^2/NDF :1243.8/1

Left: 202.755+/-0.075 χ^2/NDF : 17392.6/4

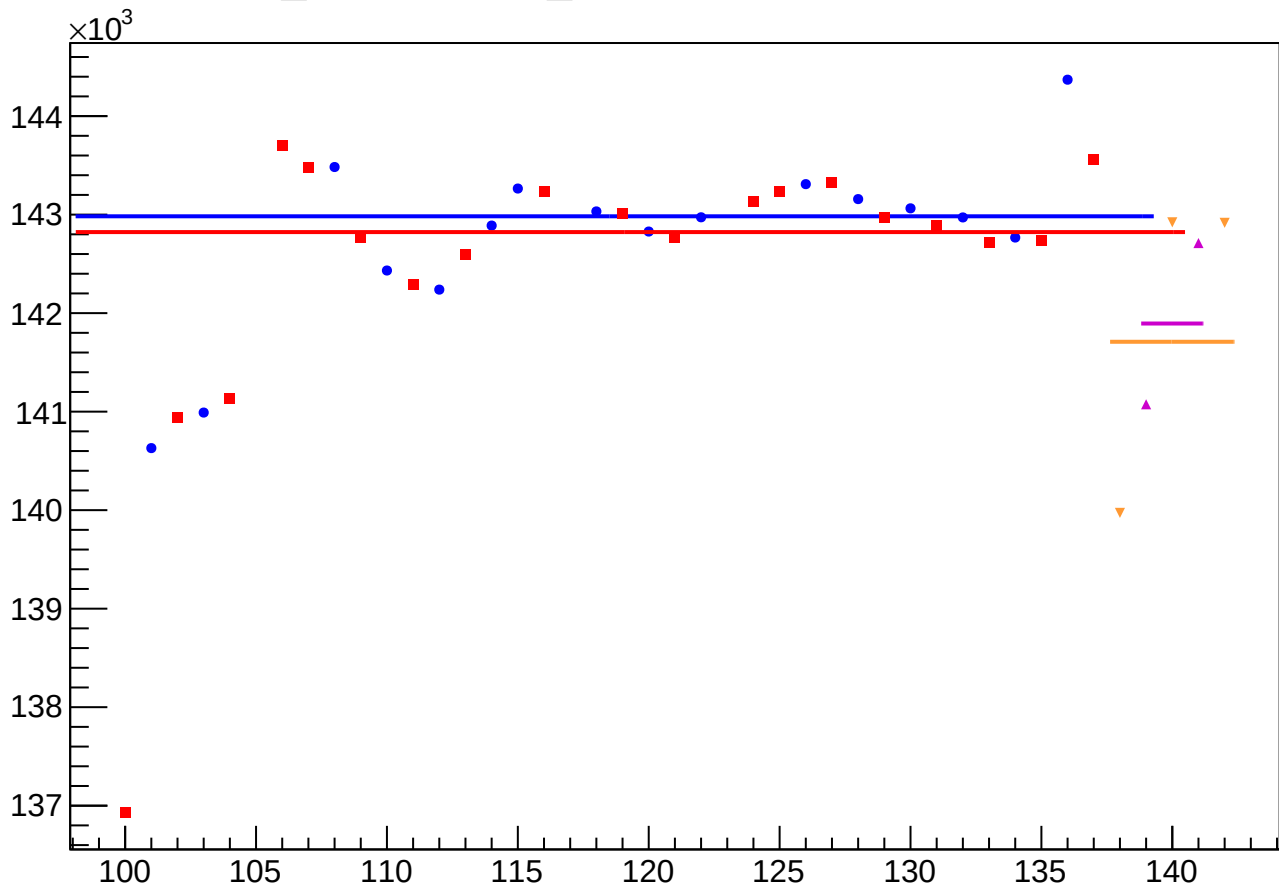
Right: 167.177+/-0.033 χ^2/NDF : 2394232.5/34

In: 177.576+/-0.044 χ^2/NDF :1151228.5/17

Out: 168.979+/-0.041 χ^2/NDF :1429452.1/21

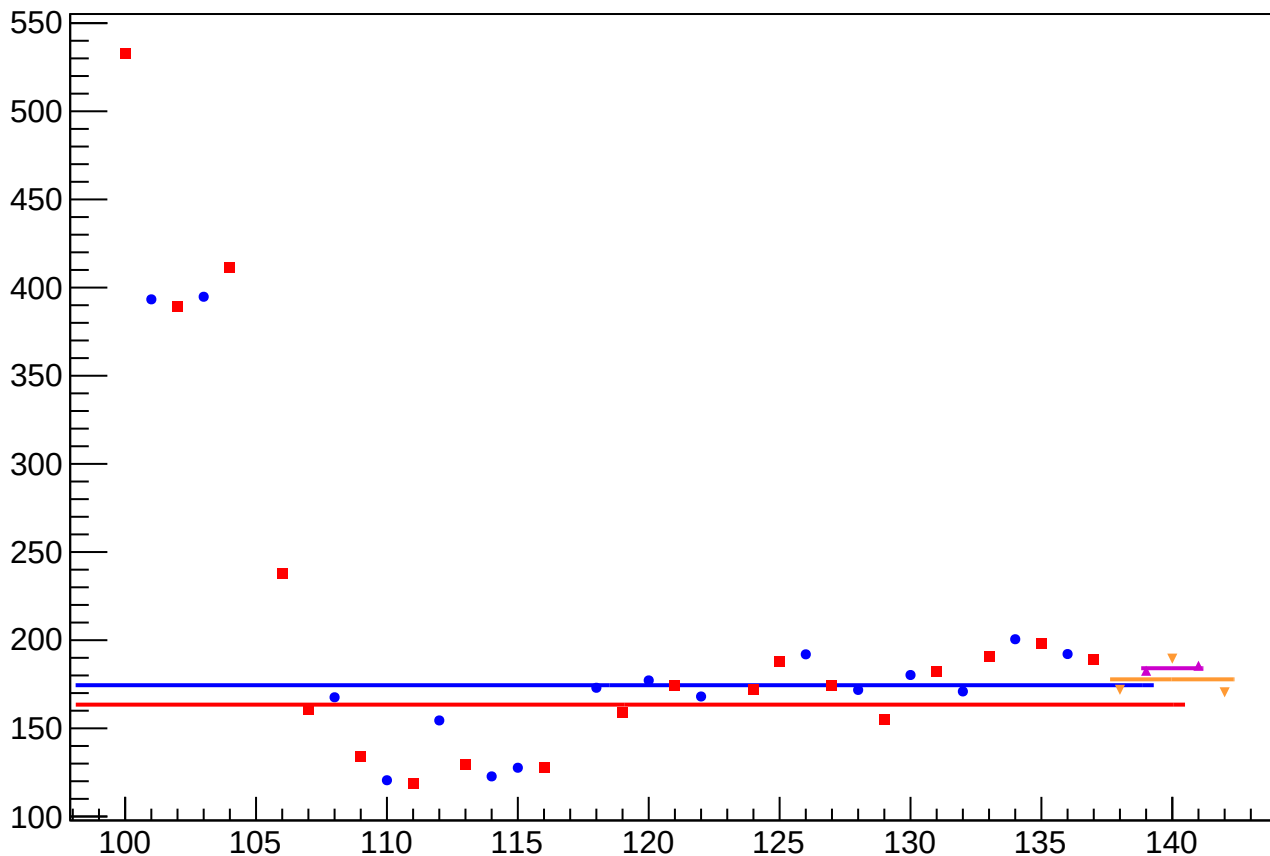
All: 172.955+/-0.030 χ^2/NDF : 2600869.7/39

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 142983.006+/-0.069	χ^2/NDF : 107696217.2/15	Left: 141791.948+/-0.094	χ^2/NDF : 165506999.4/4
Left Out: 141709.268+/-0.127	χ^2/NDF : 130944523.0/2	Right: 142896.762+/-0.047	χ^2/NDF : 174171580.7/3
Right Out: 142822.727+/-0.064	χ^2/NDF : 63581232.6/18	In: 142772.517+/-0.062	χ^2/NDF : 189273915.8/17
Left In: 141894.528+/-0.141	χ^2/NDF : 33608583.8/1	Out: 142596.248+/-0.057	χ^2/NDF : 256030052.7/21
		All: 142677.121+/-0.042	χ^2/NDF : 449668573.0/100

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 174.467 $\pm$ 0.049 χ^2 /NDF: 1049126.7/15

Left Out: 177.795 $\pm$ 0.090 χ^2 /NDF:9480.6/2

Right Out: 163.448 $\pm$ 0.045 χ^2 /NDF: 1282494.1/18

Left In: 184.098 $\pm$ 0.100 χ^2 /NDF:203.6/1

Left: 180.608 $\pm$ 0.067 χ^2 /NDF: 11892.6/4

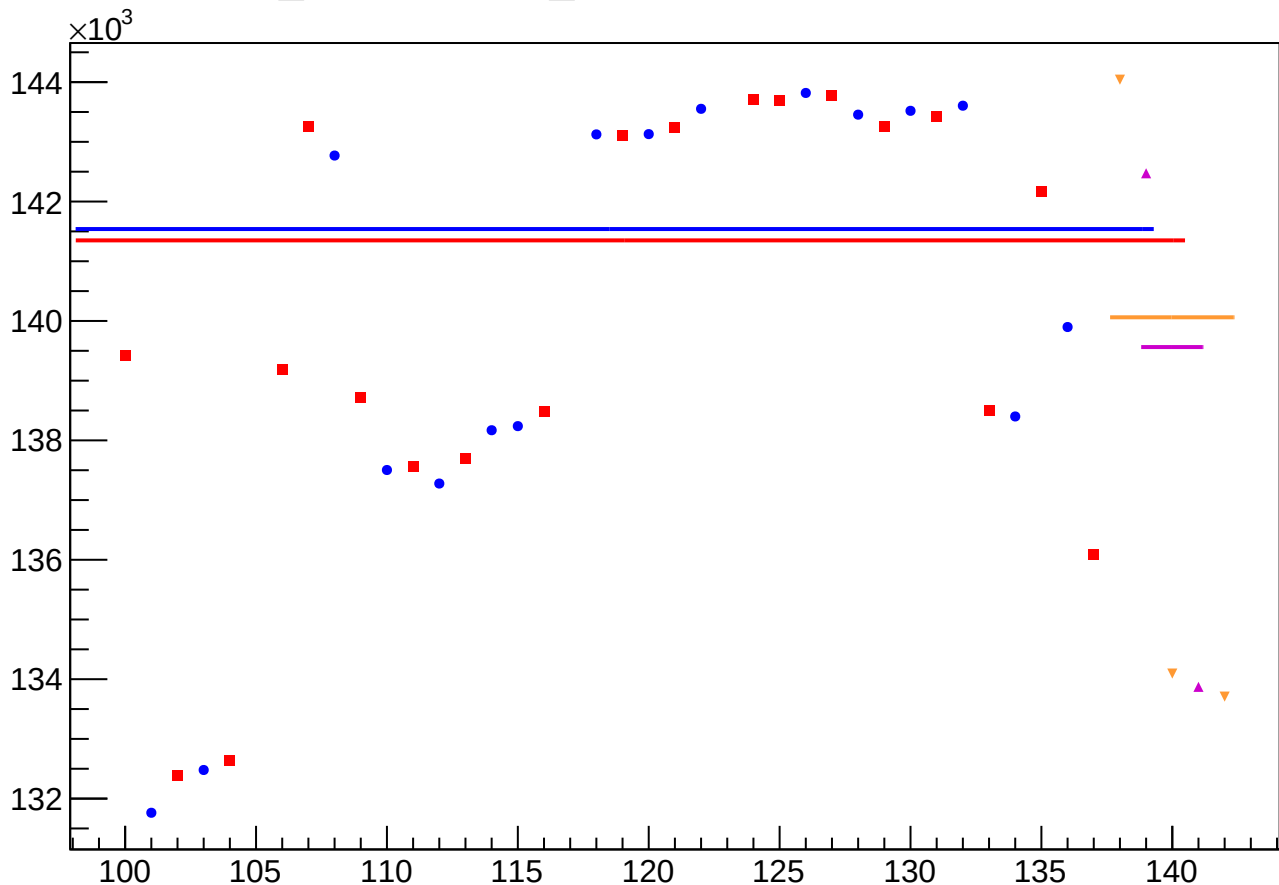
Right: 168.538 $\pm$ 0.033 χ^2 /NDF: 2358977.1/34

In: 176.329 $\pm$ 0.044 χ^2 /NDF:1056841.7/17

Out: 166.366 $\pm$ 0.040 χ^2 /NDF:1312396.7/21

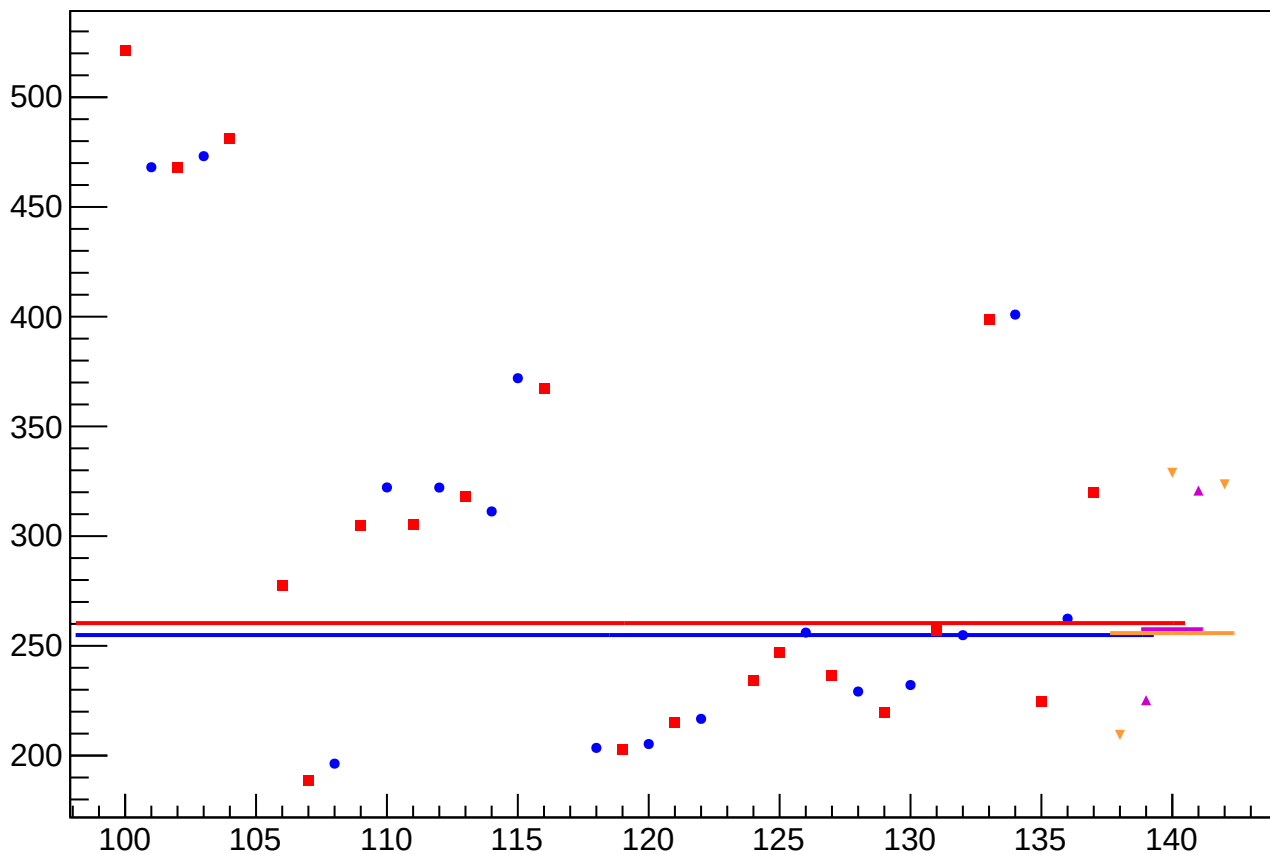
All: 170.938 $\pm$ 0.030 χ^2 /NDF: 2397126.0/39

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 141539.467 $\pm$ 0.101	χ^2 /NDF: 947743743.7/15	Left: 139831.483 $\pm$ 0.138	χ^2 /NDF: 1088437641.4/4
Left Out: 140061.158 $\pm$ 0.188	χ^2 /NDF: 685714423.3/2	Right: 141444.713 $\pm$ 0.071	χ^2 /NDF: 1876176691.0/7
Right Out: 141349.499 $\pm$ 0.101	χ^2 /NDF: 926661757.9/18	In: 141150.360 $\pm$ 0.090	χ^2 /NDF: 1422917845.3/17
Left In: 139562.865 $\pm$ 0.204	χ^2 /NDF: 399495000.3/1	Out: 141061.379 $\pm$ 0.089	χ^2 /NDF: 1648725037.0/2
		All: 141105.222 $\pm$ 0.063	χ^2 /NDF: 307213495.0/1

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 254.919 $\pm$ 0.071 χ^2 /NDF: 949952.1/15

Left Out: 255.806 $\pm$ 0.133 χ^2 /NDF:186390.0/2

Right Out: 260.369 $\pm$ 0.071 χ^2 /NDF: 993300.6/18

Left In: 257.566 $\pm$ 0.144 χ^2 /NDF:98542.5/1

Left: 256.617 $\pm$ 0.098 χ^2 /NDF: 285013.1/4

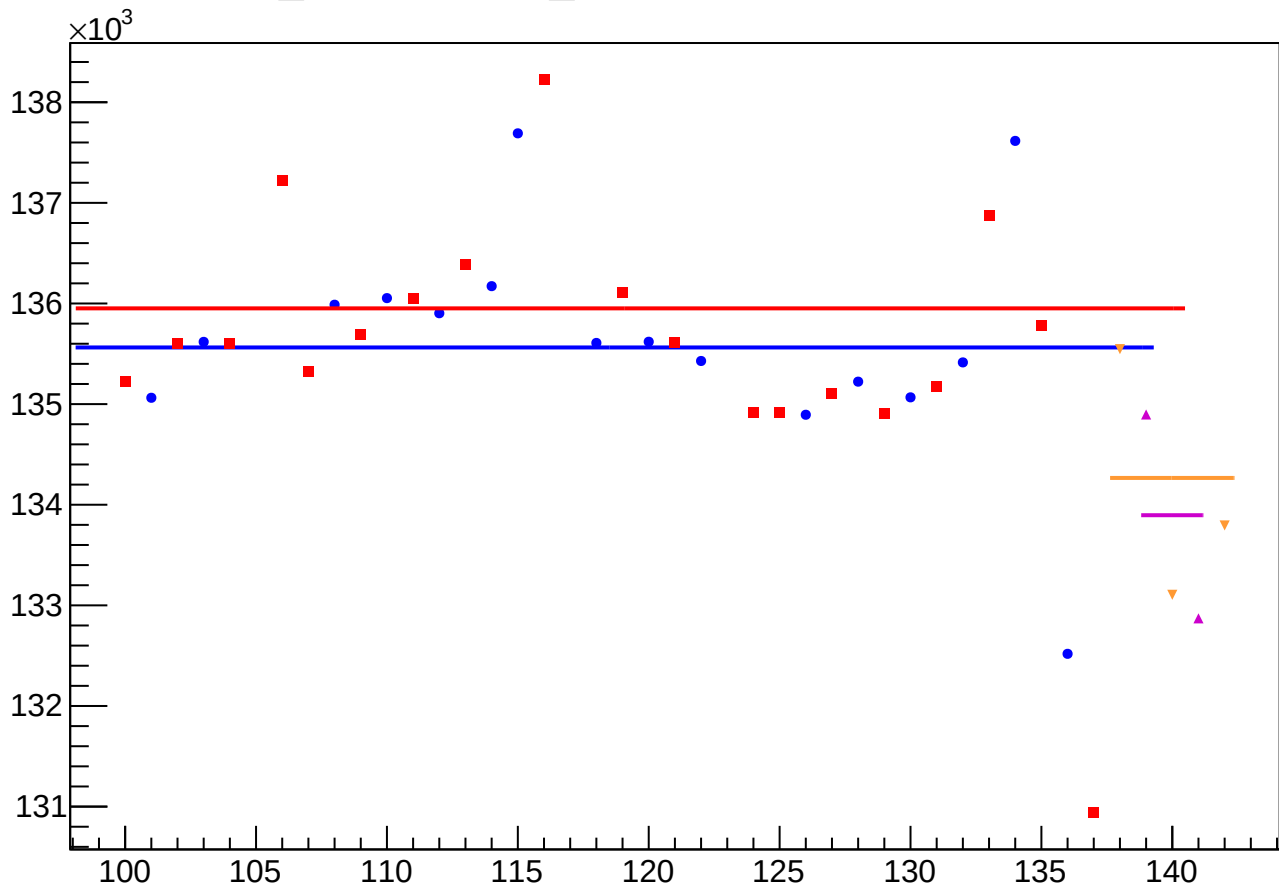
Right: 257.637 $\pm$ 0.050 χ^2 /NDF: 1946167.7/34

In: 255.440 $\pm$ 0.064 χ^2 /NDF:1048766.1/17

Out: 259.348 $\pm$ 0.063 χ^2 /NDF:1180602.4/21

All: 257.423 $\pm$ 0.045 χ^2 /NDF: 2231266.7/39

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 135563.062 ± 0.118 $\chi^2/\text{NDF}: 94169293.7/15$

Left Out: 134266.314 ± 0.136 $\chi^2/\text{NDF}: 65799858.4/2$

Right Out: 135951.486 ± 0.106 $\chi^2/\text{NDF}: 91577209.6/18$

Left In: 133895.839 ± 0.149 $\chi^2/\text{NDF}: 46105658.0/1$

Left: 134098.769 ± 0.100 $\chi^2/\text{NDF}: 115283816.3/4$

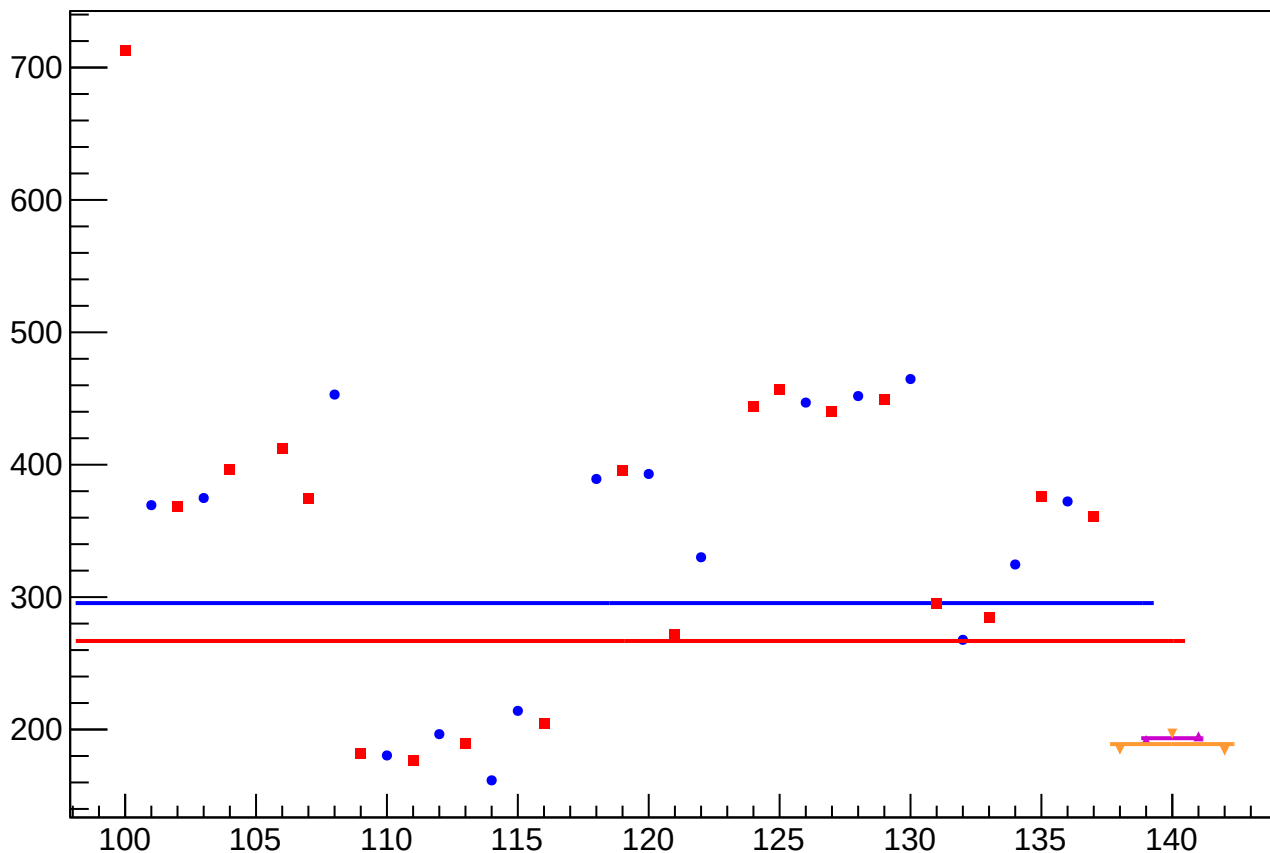
Right: 135777.958 ± 0.079 $\chi^2/\text{NDF}: 191705440.0/3$

In: 134919.024 ± 0.093 $\chi^2/\text{NDF}: 216929871.4/17$

Out: 135309.360 ± 0.084 $\chi^2/\text{NDF}: 253043178.3/21$

All: 135134.156 ± 0.062 $\chi^2/\text{NDF}: 479741307.0/45$

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 295.481+/-0.084 χ^2/NDF : 1442531.9/15

Left Out: 188.973+/-0.096 χ^2/NDF :3822.6/2

Right Out: 266.864+/-0.075 χ^2/NDF : 1678073.6/18

Left In: 193.422+/-0.105 χ^2/NDF :178.0/1

Left: 190.985+/-0.071 χ^2/NDF : 4974.8/4

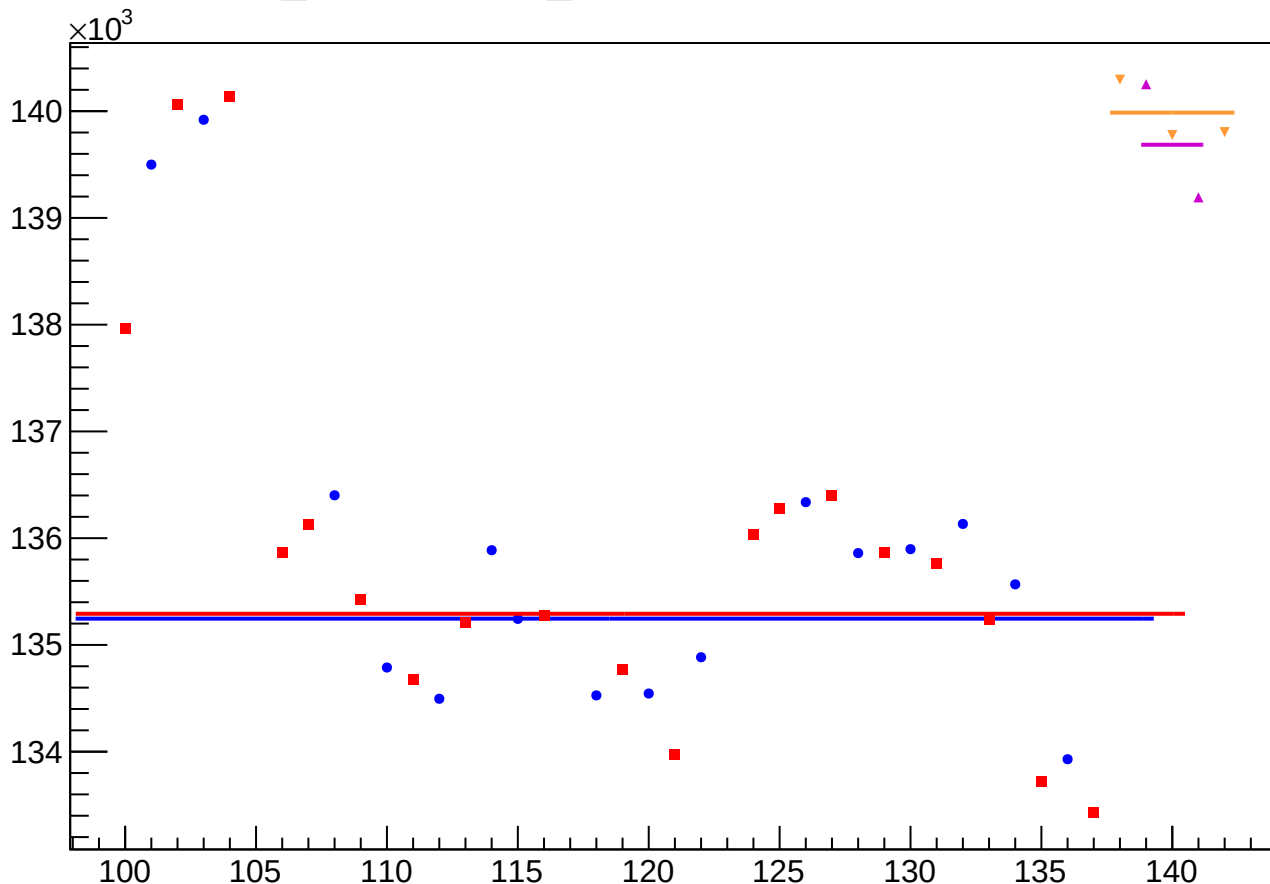
Right: 279.649+/-0.056 χ^2/NDF : 3185297.4/34

In: 256.057+/-0.066 χ^2/NDF :2017206.5/17

Out: 237.184+/-0.059 χ^2/NDF :2090656.9/21

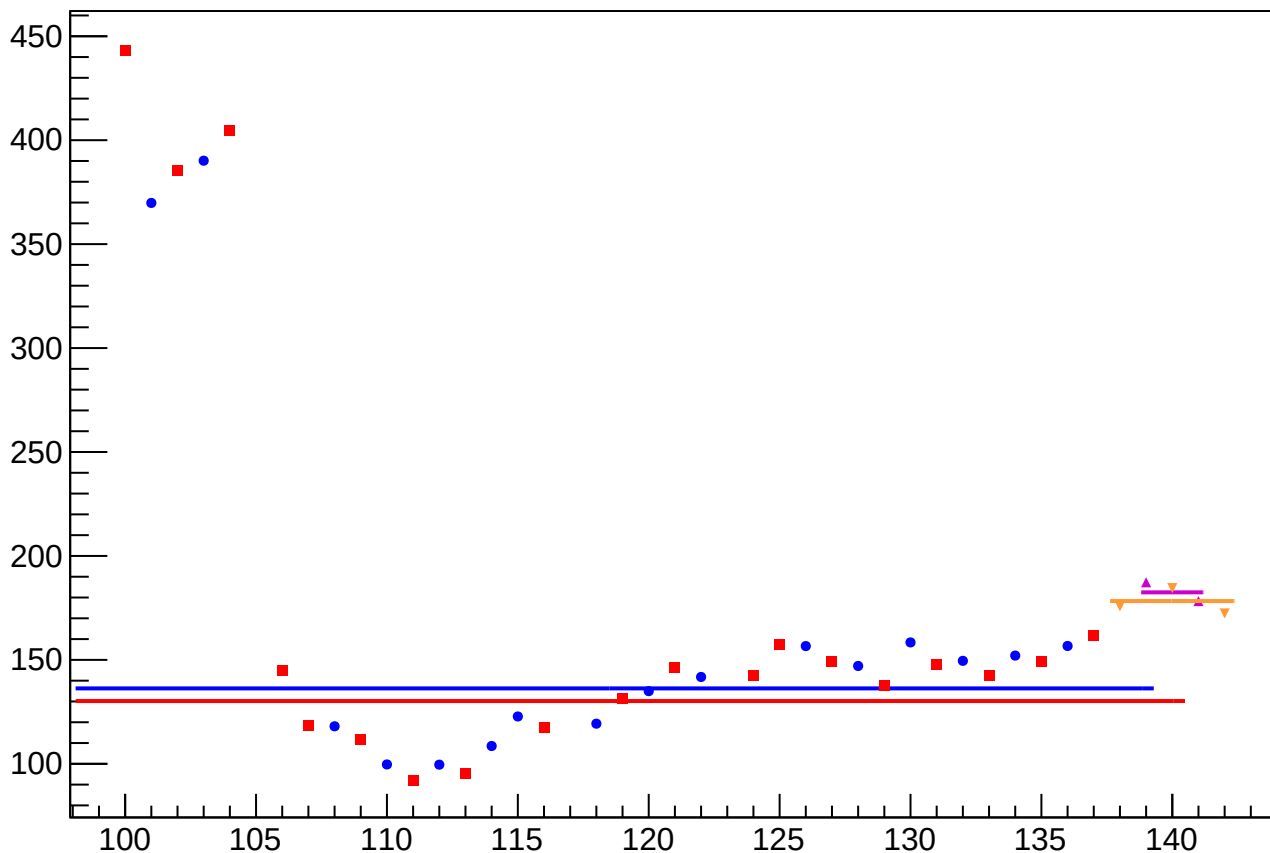
All: 245.655+/-0.044 χ^2/NDF : 4153532.7/39

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135246.269 $\pm$ 0.055	χ^2 /NDF: 388384719.1/15	Left: 139850.788 $\pm$ 0.094	χ^2 /NDF: 20783540.1/4
Left Out: 139986.429 $\pm$ 0.126	χ^2 /NDF: 3873377.5/2	Right: 135270.332 $\pm$ 0.038	χ^2 /NDF: 770541555.9/3
Right Out: 135291.851 $\pm$ 0.052	χ^2 /NDF: 381790556.0/18	In: 135838.285 $\pm$ 0.051	χ^2 /NDF: 1280365061.6/17
Left In: 139685.403 $\pm$ 0.139	χ^2 /NDF: 14351704.0/1	Out: 135966.425 $\pm$ 0.048	χ^2 /NDF: 1568178256.5/2
		All: 135906.312 $\pm$ 0.035	χ^2 /NDF: 285190230.0/1

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 136.285+/-0.039 χ^2/NDF : 1384057.4/15

Left Out: 178.305+/-0.089 χ^2/NDF : 3173.3/2

Right Out: 130.206+/-0.037 χ^2/NDF : 1520840.8/18

Left In: 182.487+/-0.099 χ^2/NDF : 2093.2/1

Left: 180.190+/-0.066 χ^2/NDF : 6254.3/4

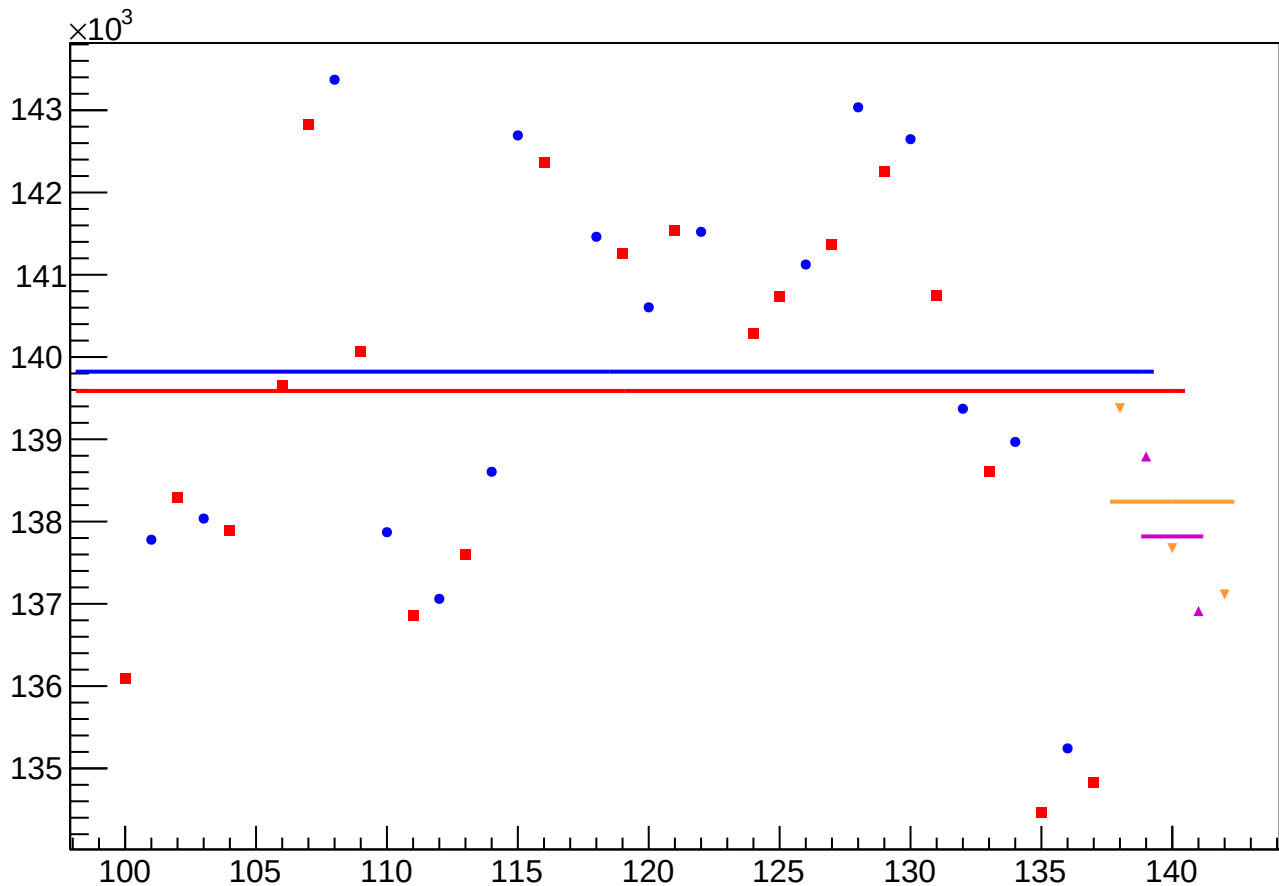
Right: 133.076+/-0.027 χ^2/NDF : 2917928.2/34

In: 142.447+/-0.036 χ^2/NDF : 1576291.2/17

Out: 137.117+/-0.034 χ^2/NDF : 1772282.6/21

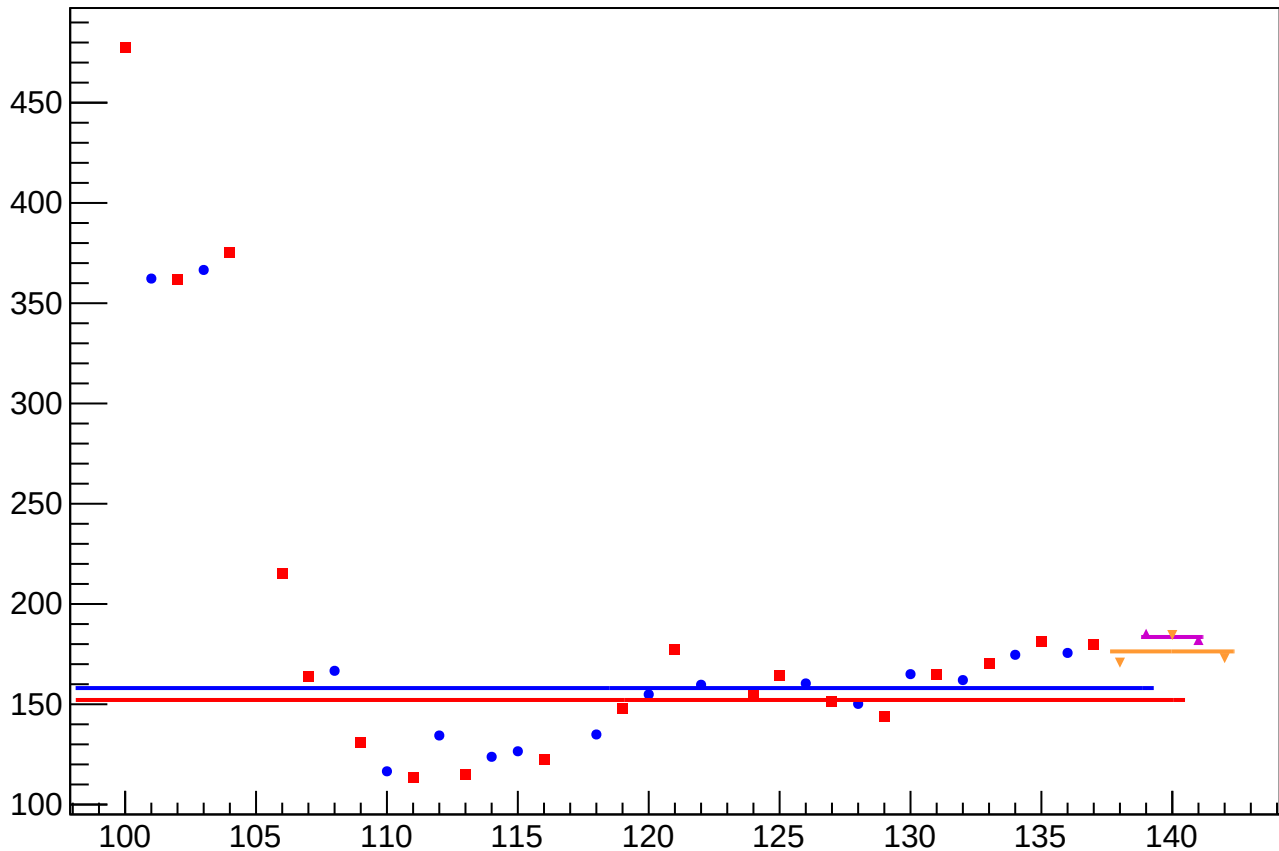
All: 139.617+/-0.025 χ^2/NDF : 3360194.1/39

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139822.122 $\pm$ 0.063	χ^2 /NDF: 1663381581.4/15	Left: 138054.538 $\pm$ 0.094	χ^2 /NDF: 108371079.2/4
Left Out: 138242.066 $\pm$ 0.126	χ^2 /NDF: 58752717.2/2	Right: 139699.515 $\pm$ 0.043	χ^2 /NDF: 3153646641.6/1
Right Out: 139587.876 $\pm$ 0.060	χ^2 /NDF: 1482934186.2/18	In: 139490.830 $\pm$ 0.057	χ^2 /NDF: 1877336744.7/17
Left In: 137819.209 $\pm$ 0.141	χ^2 /NDF: 44584425.8/1	Out: 139339.383 $\pm$ 0.054	χ^2 /NDF: 1635435481.2/2
		All: 139410.681 $\pm$ 0.039	χ^2 /NDF: 351648460.0/1

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 158.079 $\pm$ 0.044 χ^2 /NDF: 1017928.9/15

Left Out: 176.357 $\pm$ 0.089 χ^2 /NDF:5076.5/2

Right Out: 152.139 $\pm$ 0.042 χ^2 /NDF: 1229053.9/18

Left In: 183.554 $\pm$ 0.099 χ^2 /NDF:241.5/1

Left: 179.549 $\pm$ 0.066 χ^2 /NDF: 8234.1/4

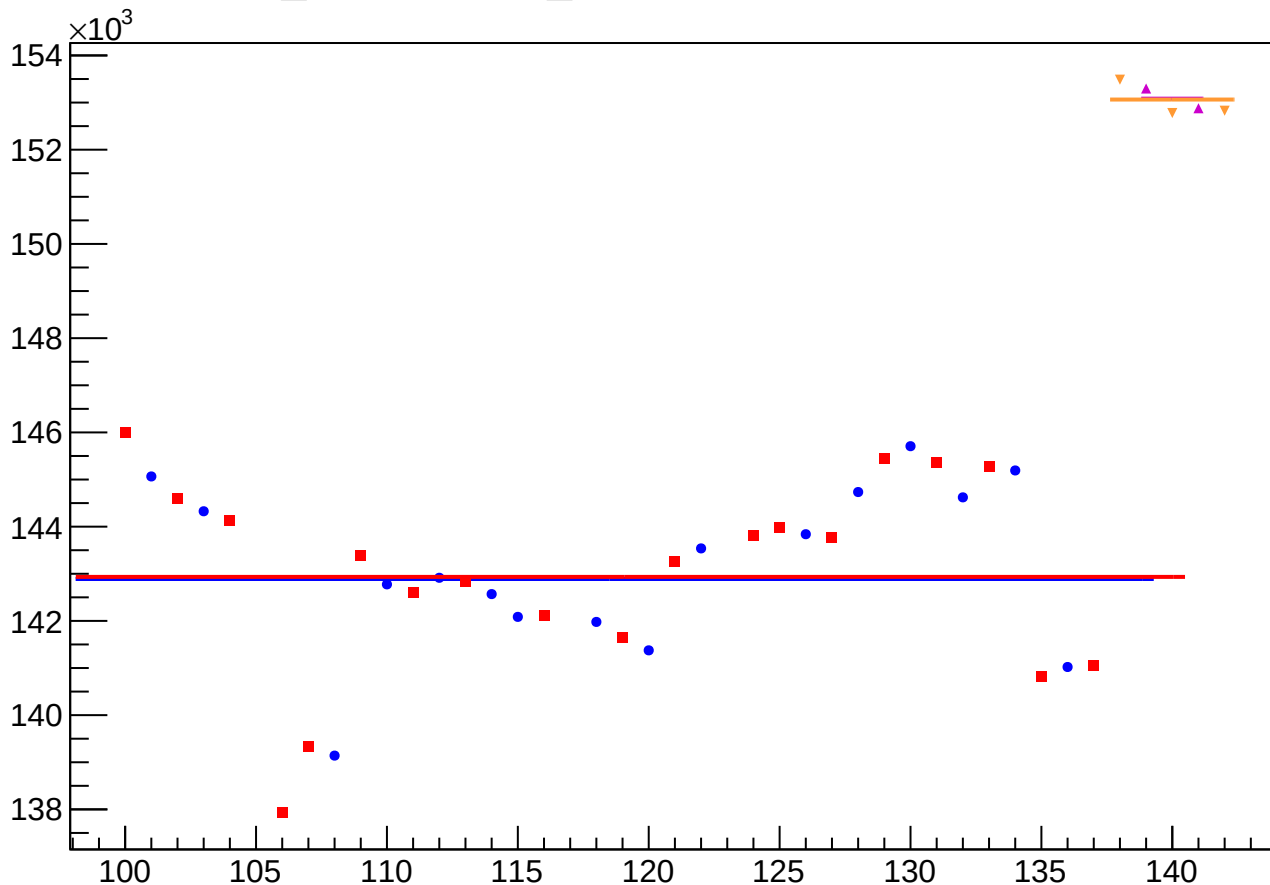
Right: 154.970 $\pm$ 0.031 χ^2 /NDF: 2256411.8/34

In: 162.293 $\pm$ 0.040 χ^2 /NDF:1072967.9/17

Out: 156.611 $\pm$ 0.038 χ^2 /NDF:1294848.5/21

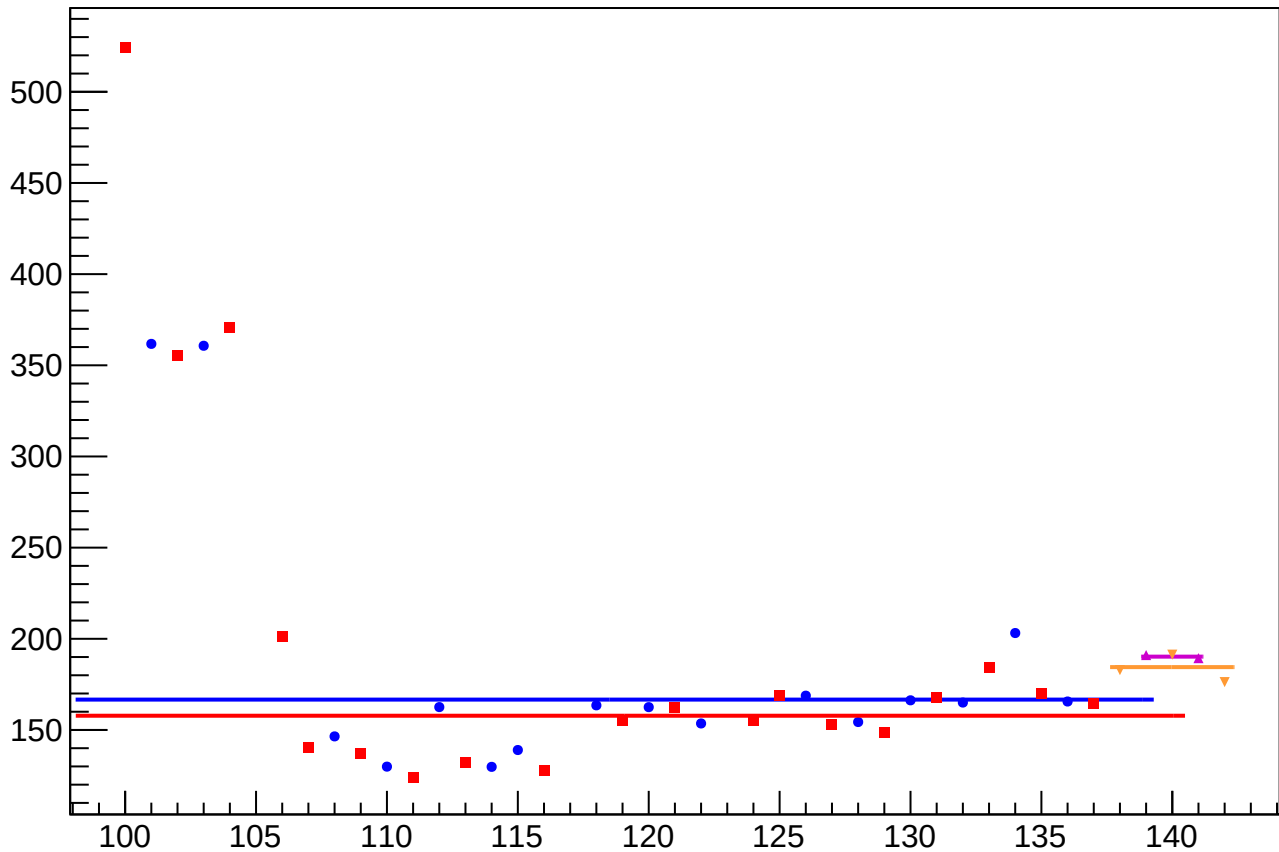
All: 159.286 $\pm$ 0.028 χ^2 /NDF: 2378268.6/39

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142889.386 $\pm$ 0.066	χ^2/NDF : 763303771.6/15	Left: 153072.596 $\pm$ 0.098	χ^2/NDF : 8584049.7/4
Left Out: 153064.197 $\pm$ 0.132	χ^2/NDF : 6512489.2/2	Right: 142913.088 $\pm$ 0.045	χ^2/NDF : 1550935114.7/1
Right Out: 142933.890 $\pm$ 0.062	χ^2/NDF : 787386856.4/18	In: 144608.485 $\pm$ 0.060	χ^2/NDF : 4826946462.0/17
Left In: 153082.890 $\pm$ 0.146	χ^2/NDF : 2062512.8/1	Out: 144748.526 $\pm$ 0.056	χ^2/NDF : 5648379820.9/2
		All: 144683.508 $\pm$ 0.041	χ^2/NDF : 104782554

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 166.656+/-0.046 χ^2/NDF : 863574.7/15

Left Out: 184.474+/-0.093 χ^2/NDF : 3982.8/2

Right Out: 157.809+/-0.044 χ^2/NDF : 1022332.1/18

Left In: 190.217+/-0.103 χ^2/NDF : 67.8/1

Left: 187.054+/-0.069 χ^2/NDF : 5758.9/4

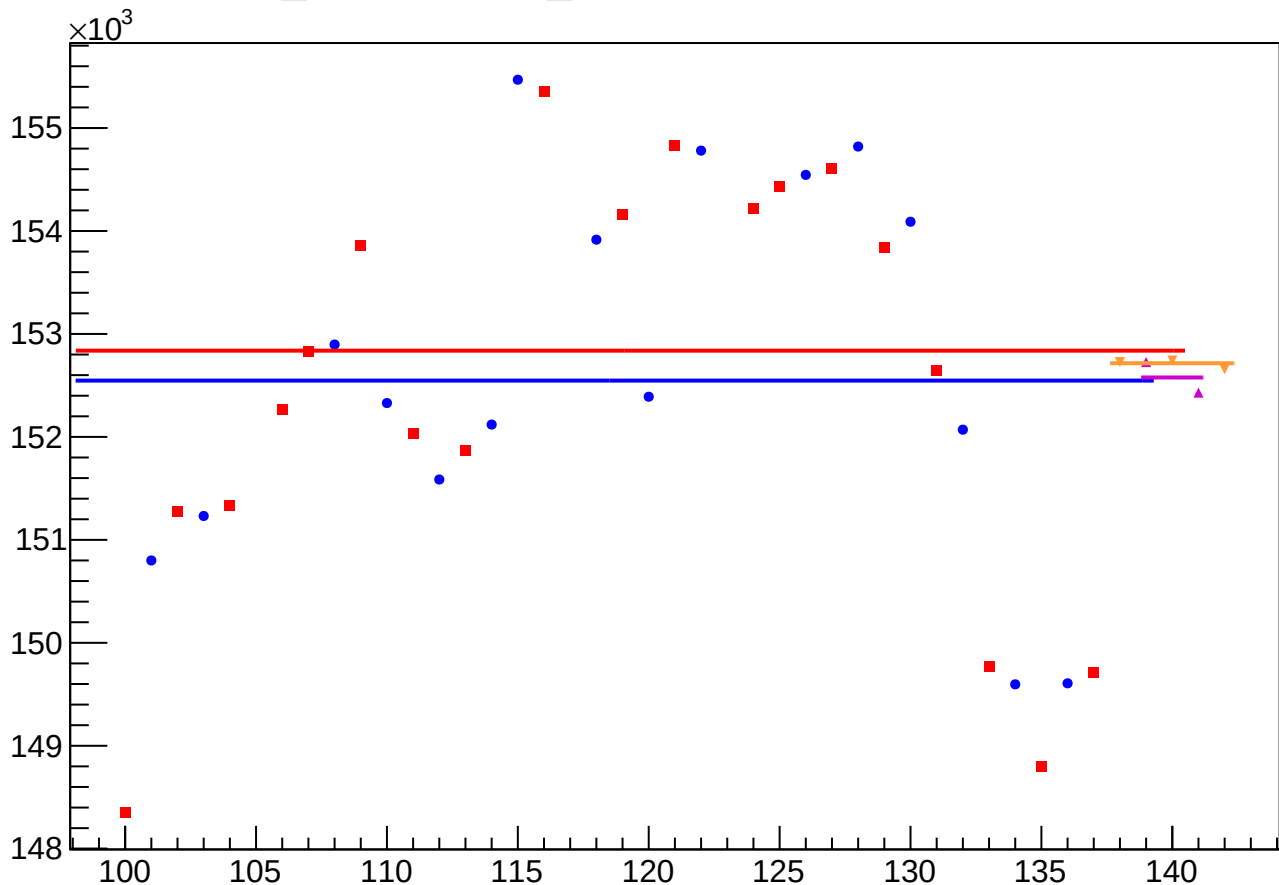
Right: 161.945+/-0.032 χ^2/NDF : 1905231.4/34

In: 170.630+/-0.042 χ^2/NDF : 907039.9/17

Out: 162.585+/-0.039 χ^2/NDF : 1093581.5/21

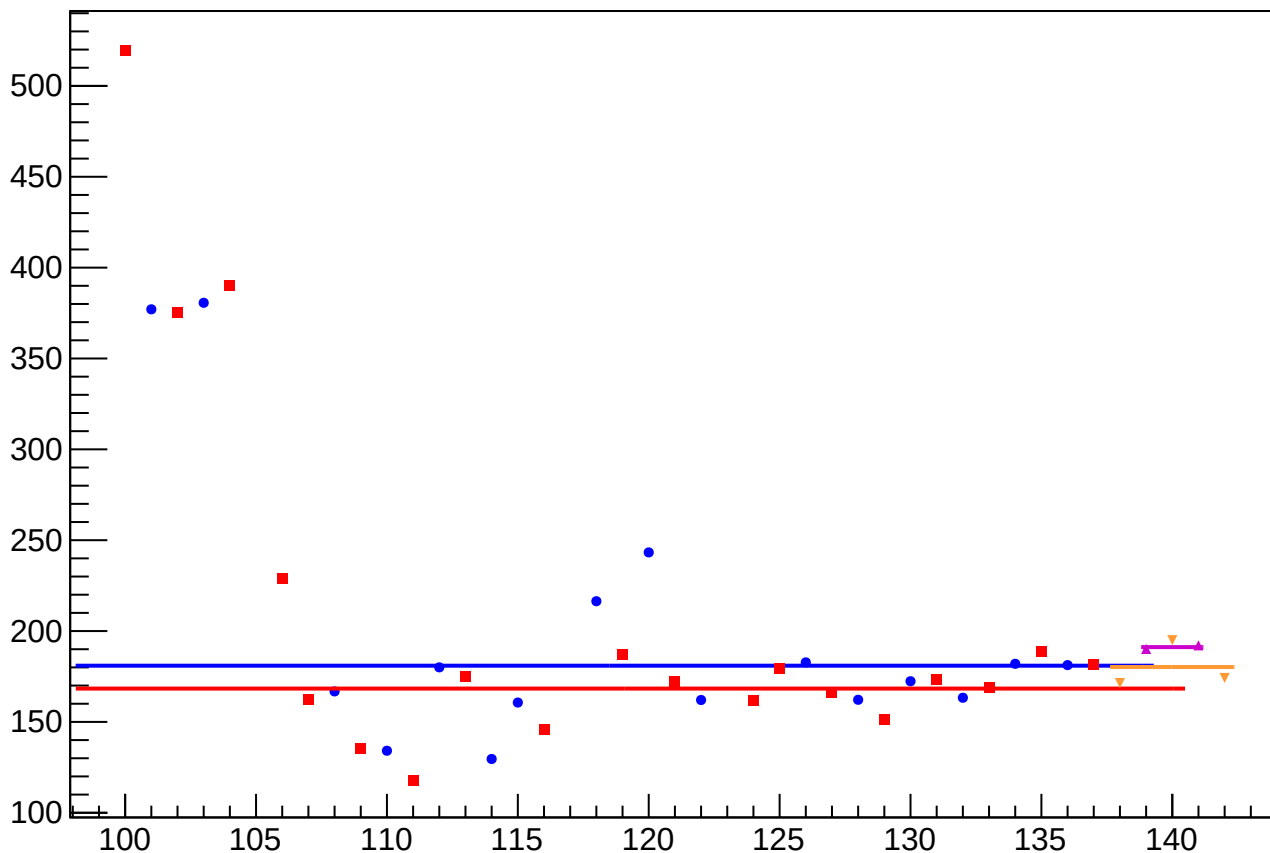
All: 166.320+/-0.029 χ^2/NDF : 2019952.4/39

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152546.899 $\pm$ 0.073	χ^2 /NDF: 654540559.6/15	Left: 152655.486 $\pm$ 0.097	χ^2 /NDF: 1600930.1/4
Left Out: 152715.729 $\pm$ 0.128	χ^2 /NDF: 65666.3/2	Right: 152704.814 $\pm$ 0.049	χ^2 /NDF: 1400162101.0/1
Right Out: 152837.888 $\pm$ 0.067	χ^2 /NDF: 736907066.8/18	In: 152552.877 $\pm$ 0.065	χ^2 /NDF: 655603481.7/17
Left In: 152577.162 $\pm$ 0.146	χ^2 /NDF: 1028613.8/1	Out: 152811.941 $\pm$ 0.059	χ^2 /NDF: 737686062.1/21
		All: 152694.668 $\pm$ 0.044	χ^2 /NDF: 140197056.1/1

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 180.938 $\pm$ 0.051 χ^2 /NDF: 907758.2/15

Left Out: 180.214 $\pm$ 0.091 χ^2 /NDF:14190.8/2

Right Out: 168.349 $\pm$ 0.047 χ^2 /NDF: 1089090.2/18

Left In: 191.163 $\pm$ 0.103 χ^2 /NDF:90.9/1

Left: 184.974 $\pm$ 0.068 χ^2 /NDF: 20607.4/4

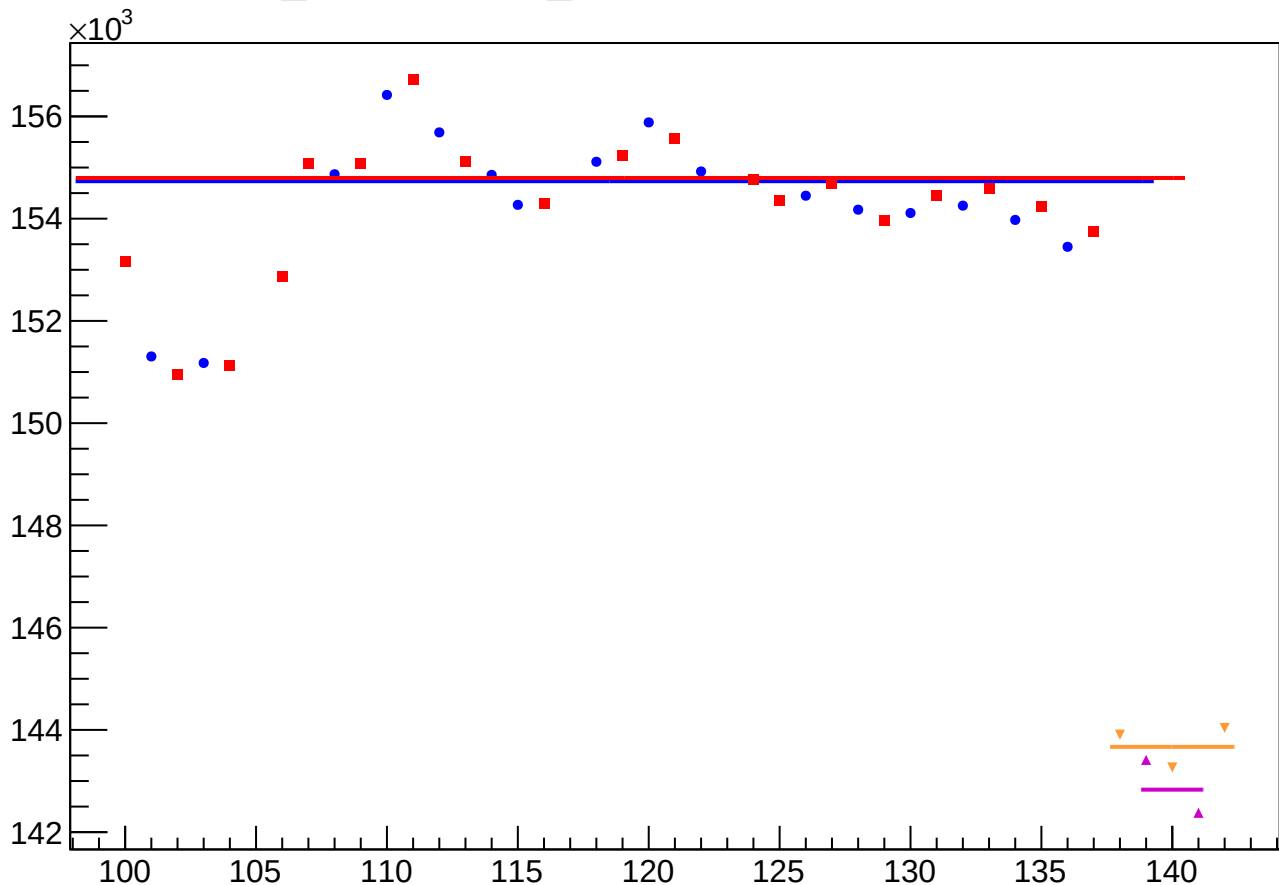
Right: 174.106 $\pm$ 0.035 χ^2 /NDF: 2029471.3/34

In: 182.958 $\pm$ 0.046 χ^2 /NDF:915680.8/17

Out: 170.869 $\pm$ 0.042 χ^2 /NDF:1116740.0/21

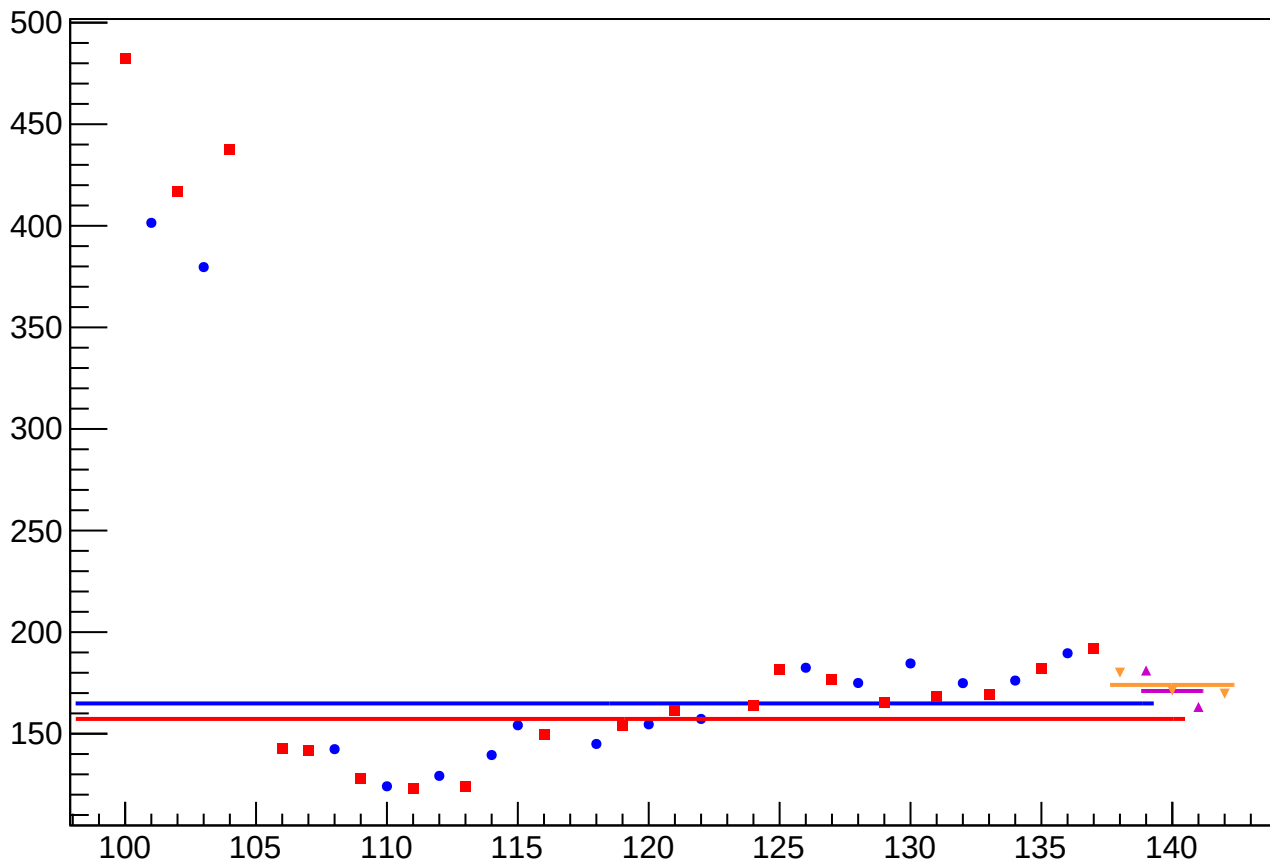
All: 176.342 $\pm$ 0.031 χ^2 /NDF: 2070225.5/39

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154733.155+/-0.065	χ^2/NDF : 274462319.1/15	Left: 143275.942+/-0.090	χ^2/NDF : 44947321.1/4
Left Out: 143668.403+/-0.123	χ^2/NDF : 7855477.2/2	Right: 154766.574+/-0.045	χ^2/NDF : 579080682.1/3
Right Out: 154795.893+/-0.061	χ^2/NDF : 304125082.4/18	In: 152367.811+/-0.058	χ^2/NDF : 6913197451.9/17
Left In: 142831.278+/-0.131	χ^2/NDF : 15370112.5/1	Out: 152595.082+/-0.055	χ^2/NDF : 6879415240.8/2
		All: 152488.805+/-0.040	χ^2/NDF : 138006869

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 164.906 $\pm$ 0.046 χ^2 /NDF: 1072730.7/15

Left Out: 174.030 $\pm$ 0.087 χ^2 /NDF:2701.3/2

Right Out: 157.283 $\pm$ 0.043 χ^2 /NDF: 1254831.2/18

Left In: 171.031 $\pm$ 0.093 χ^2 /NDF:9219.7/1

Left: 172.624 $\pm$ 0.063 χ^2 /NDF: 12478.5/4

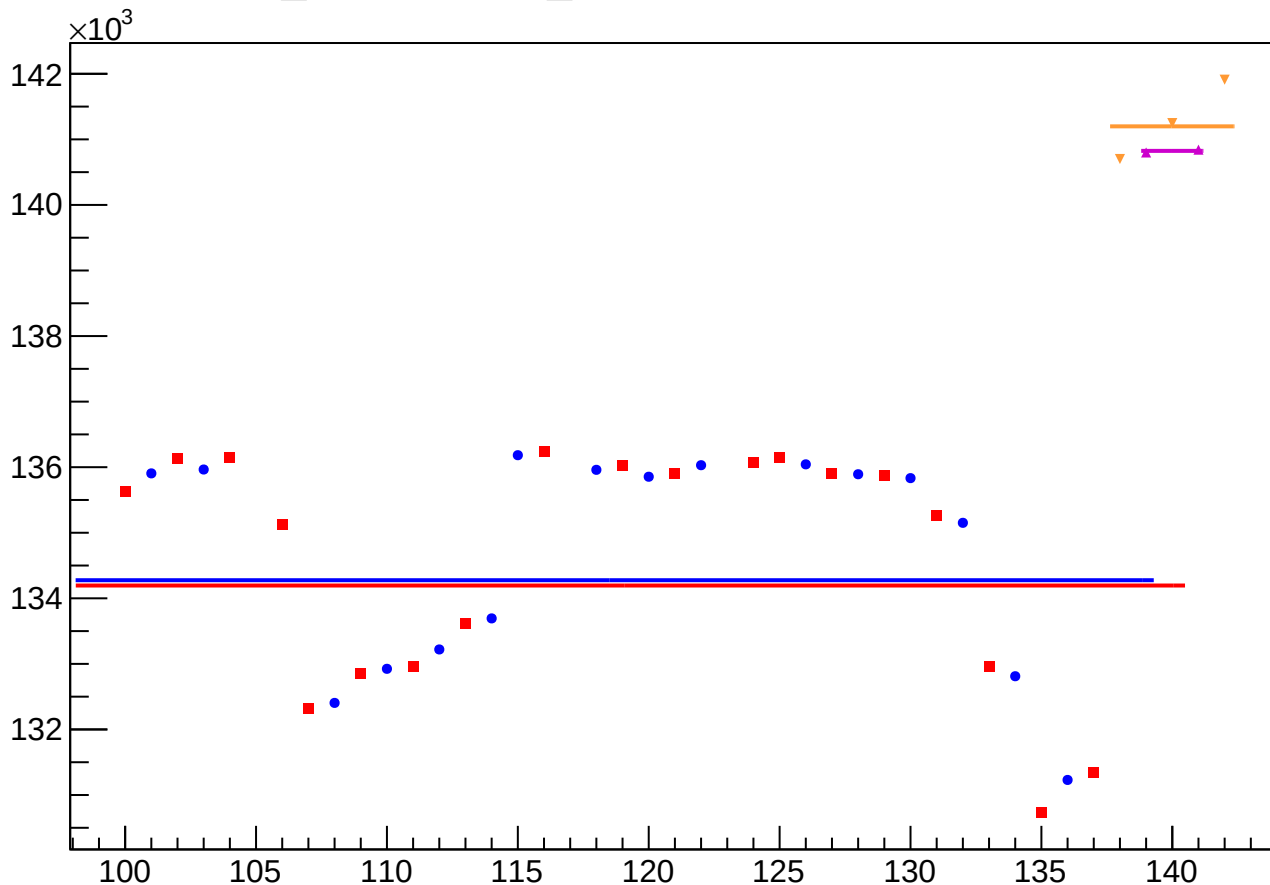
Right: 160.846 $\pm$ 0.032 χ^2 /NDF: 2342128.6/34

In: 166.124 $\pm$ 0.041 χ^2 /NDF:1085458.2/17

Out: 160.595 $\pm$ 0.039 χ^2 /NDF:1287283.7/21

All: 163.180 $\pm$ 0.028 χ^2 /NDF: 2382297.0/39

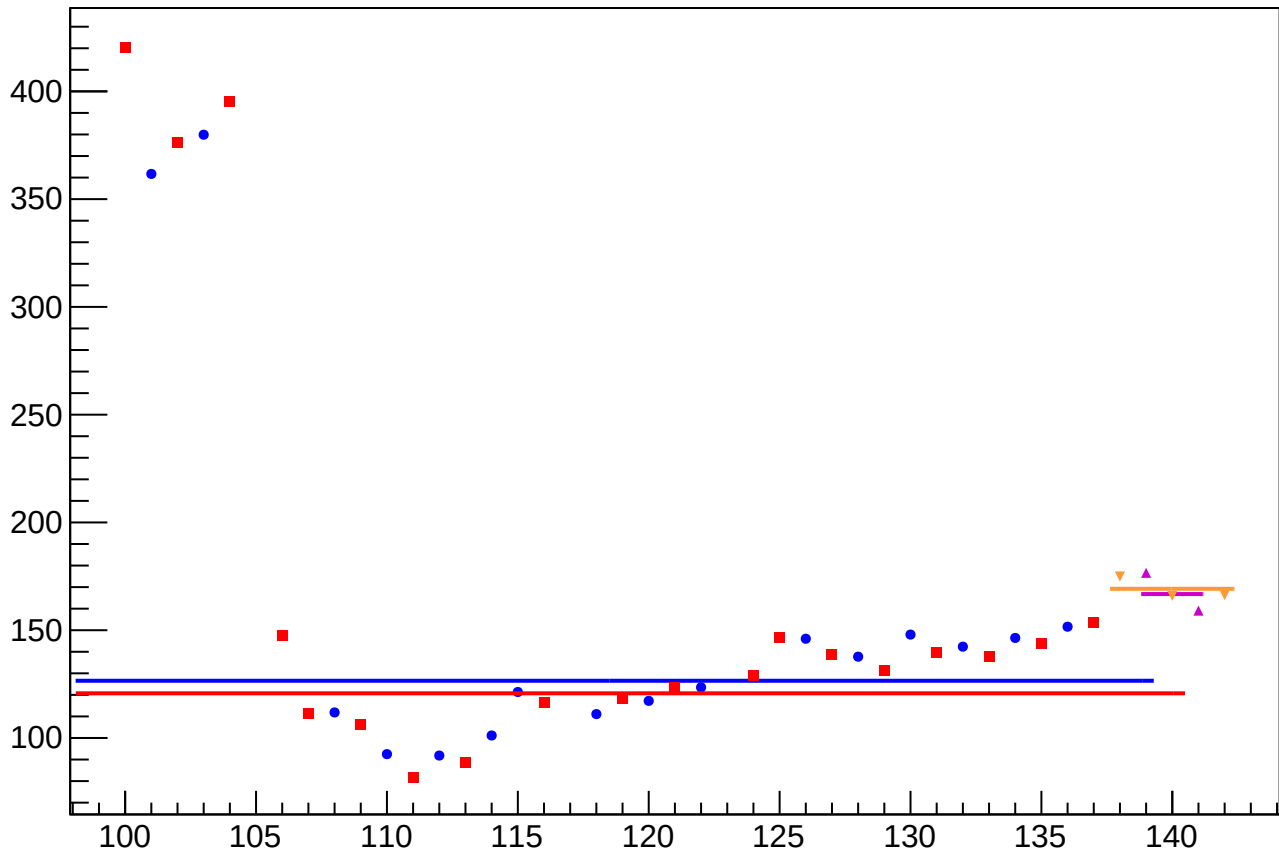
yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134276.096 $\pm$ 0.051 χ^2 /NDF: 1142867100.2/15
 Left Out: 141198.535 $\pm$ 0.120 χ^2 /NDF: 14106652.4/2
 Right Out: 134195.257 $\pm$ 0.048 χ^2 /NDF: 1205537499.7/18
 Left In: 140824.445 $\pm$ 0.128 χ^2 /NDF: 27555.5/1

Left: 141023.647 $\pm$ 0.087 χ^2 /NDF: 18700716.1/4
 Right: 134233.345 $\pm$ 0.035 χ^2 /NDF: 2349742421.8/1
 In: 135171.022 $\pm$ 0.047 χ^2 /NDF: 3411499842.8/17
 Out: 135164.576 $\pm$ 0.045 χ^2 /NDF: 4169167737.5/2
 All: 135167.610 $\pm$ 0.032 χ^2 /NDF: 75806774/1

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 126.551 $\pm$ 0.036 χ^2 /NDF: 1477429.4/15

Left Out: 169.218 $\pm$ 0.085 χ^2 /NDF:2542.7/2

Right Out: 120.723 $\pm$ 0.034 χ^2 /NDF: 1632726.2/18

Left In: 166.776 $\pm$ 0.090 χ^2 /NDF:9276.7/1

Left: 168.076 $\pm$ 0.062 χ^2 /NDF: 12208.5/4

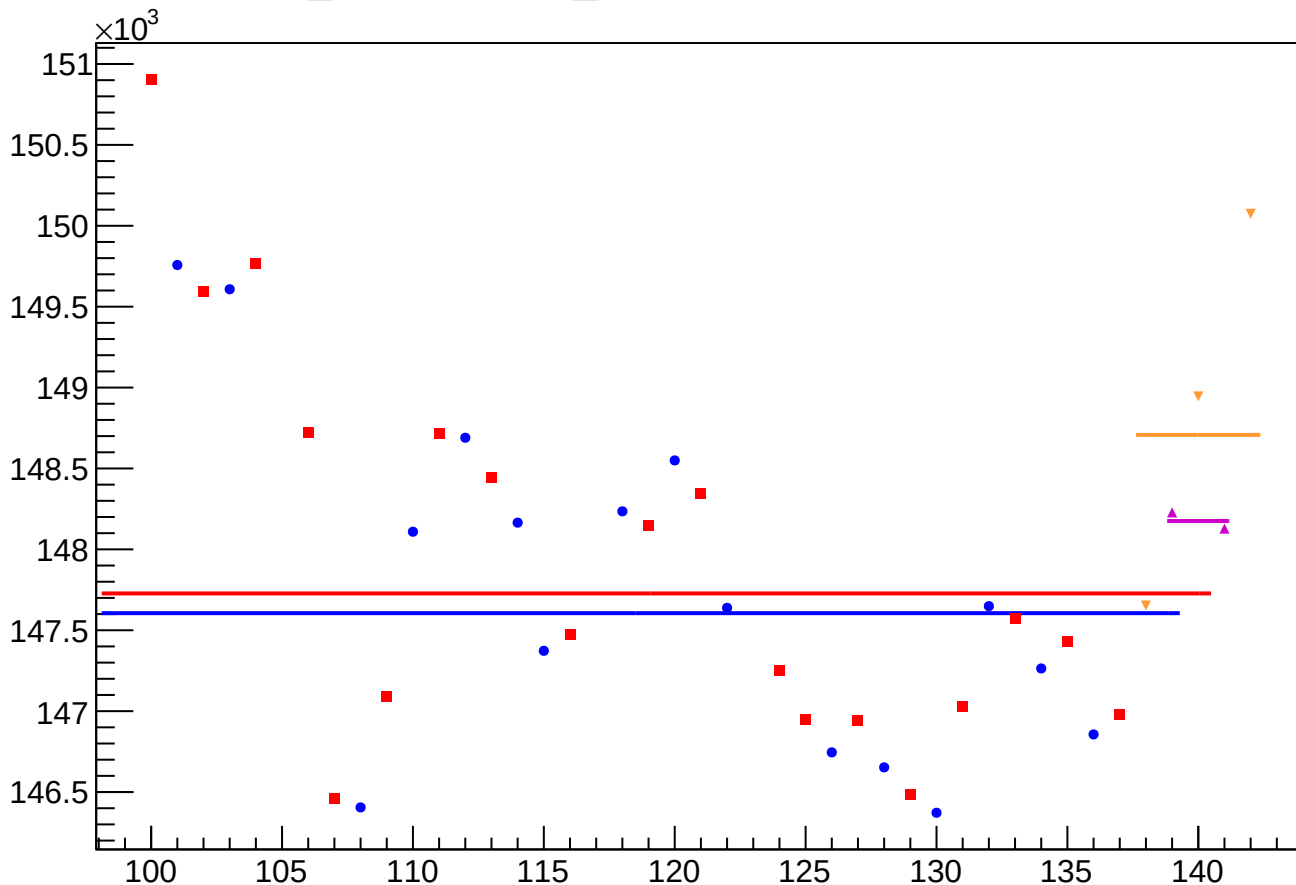
Right: 123.469 $\pm$ 0.025 χ^2 /NDF: 3124061.5/34

In: 132.048 $\pm$ 0.033 χ^2 /NDF:1657912.0/17

Out: 127.435 $\pm$ 0.031 χ^2 /NDF:1918126.9/21

All: 129.606 $\pm$ 0.023 χ^2 /NDF: 3586140.6/39

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147605.604 $\pm$ 0.062

χ^2/NDF : 200513366.5/15

Left: 148466.408 $\pm$ 0.106

χ^2/NDF : 48229560.7/4

Left Out: 148707.423 $\pm$ 0.143

χ^2/NDF : 41899113.9/2

Right: 147670.157 $\pm$ 0.043

χ^2/NDF : 397331184.2/3

Right Out: 147727.598 $\pm$ 0.059

χ^2/NDF : 194800119.4/18

In: 147682.912 $\pm$ 0.058

χ^2/NDF : 211897909.4/17

Out: 147869.054 $\pm$ 0.055

χ^2/NDF : 276607472.7/21

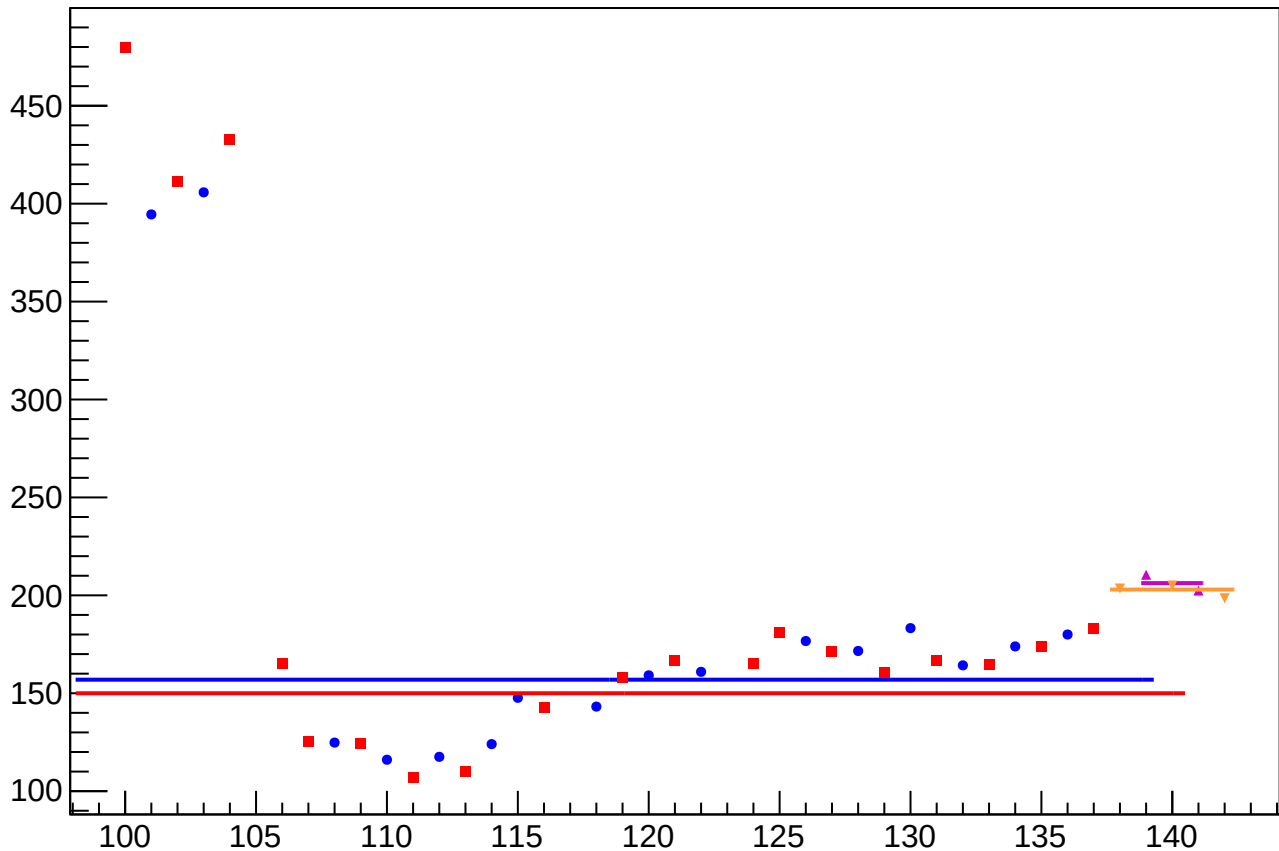
Left In: 148175.320 $\pm$ 0.158

χ^2/NDF : 100003.0/1

All: 147781.876 $\pm$ 0.040

χ^2/NDF : 49396619

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 156.927 $\pm$ 0.044 χ^2 /NDF: 1265768.6/15

Left Out: 202.956 $\pm$ 0.101 χ^2 /NDF:605.7/2

Right Out: 149.994 $\pm$ 0.042 χ^2 /NDF: 1453928.8/18

Left In: 206.244 $\pm$ 0.111 χ^2 /NDF:1306.9/1

Left: 204.446 $\pm$ 0.075 χ^2 /NDF: 2388.4/4

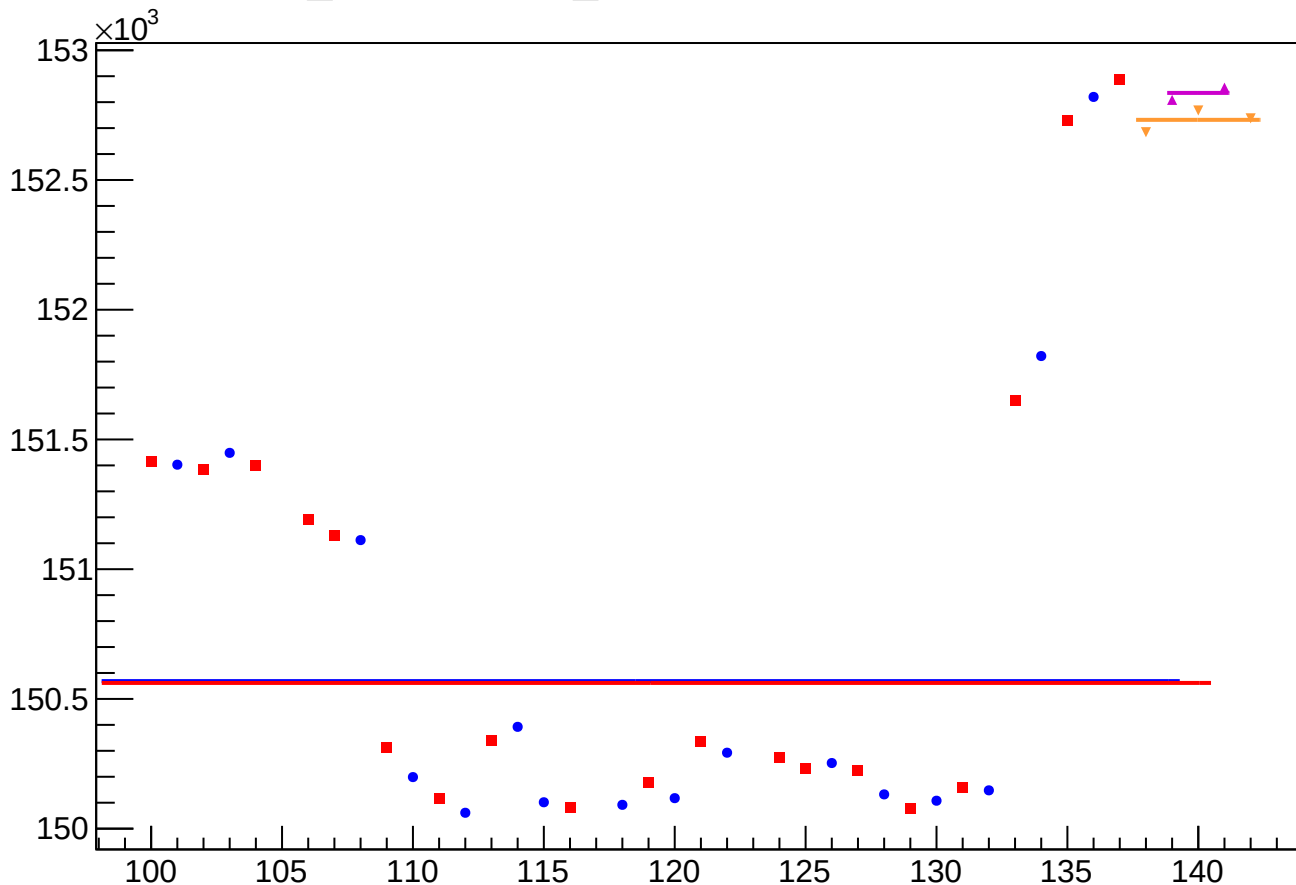
Right: 153.258 $\pm$ 0.030 χ^2 /NDF: 2732730.8/34

In: 163.619 $\pm$ 0.041 χ^2 /NDF:1436195.1/17

Out: 157.640 $\pm$ 0.039 χ^2 /NDF:1687735.1/21

All: 160.440 $\pm$ 0.028 χ^2 /NDF: 3135198.8/39

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 150568.638 $\pm$ 0.055 χ^2 /NDF: 237155171.8/15

Left Out: 152731.826 $\pm$ 0.122 χ^2 /NDF: 91766.8/2

Right Out: 150561.647 $\pm$ 0.051 χ^2 /NDF: 197500782.5/18

Left In: 152835.584 $\pm$ 0.130 χ^2 /NDF: 32542.5/1

Left: 152780.510 $\pm$ 0.089 χ^2 /NDF: 464214.8/4

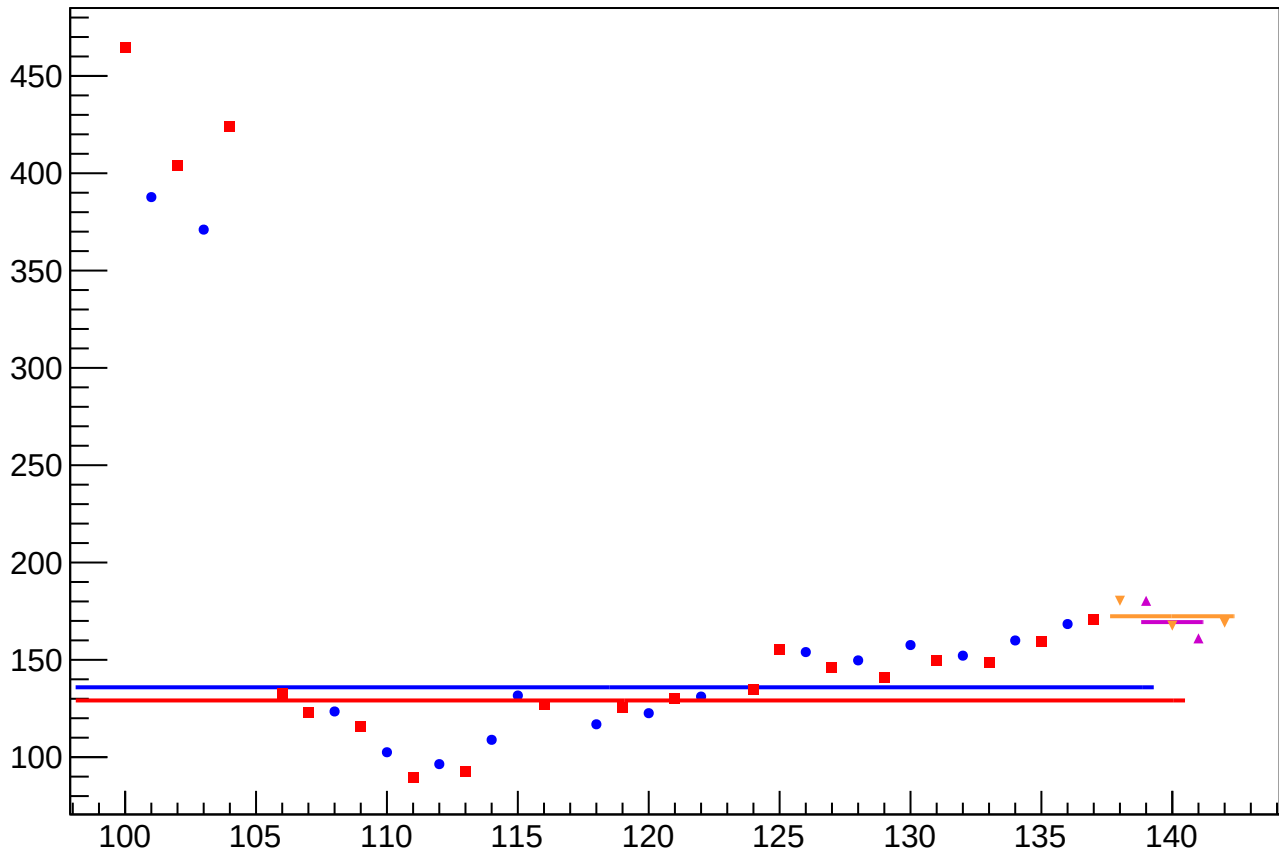
Right: 150564.903 $\pm$ 0.037 χ^2 /NDF: 434664709.4/3

In: 150910.191 $\pm$ 0.050 χ^2 /NDF: 496812324.2/17

Out: 150884.705 $\pm$ 0.047 χ^2 /NDF: 467332407.8/21

All: 150896.587 $\pm$ 0.034 χ^2 /NDF: 964281611.0/25

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 135.896 $\pm$ 0.039 χ^2/NDF : 1416332.3/15

Left Out: 172.394 $\pm$ 0.086 χ^2/NDF :4656.2/2

Right Out: 129.130 $\pm$ 0.036 χ^2/NDF : 1614311.0/18

Left In: 169.395 $\pm$ 0.092 χ^2/NDF :10871.4/1

Left: 170.987 $\pm$ 0.063 χ^2/NDF : 16095.6/4

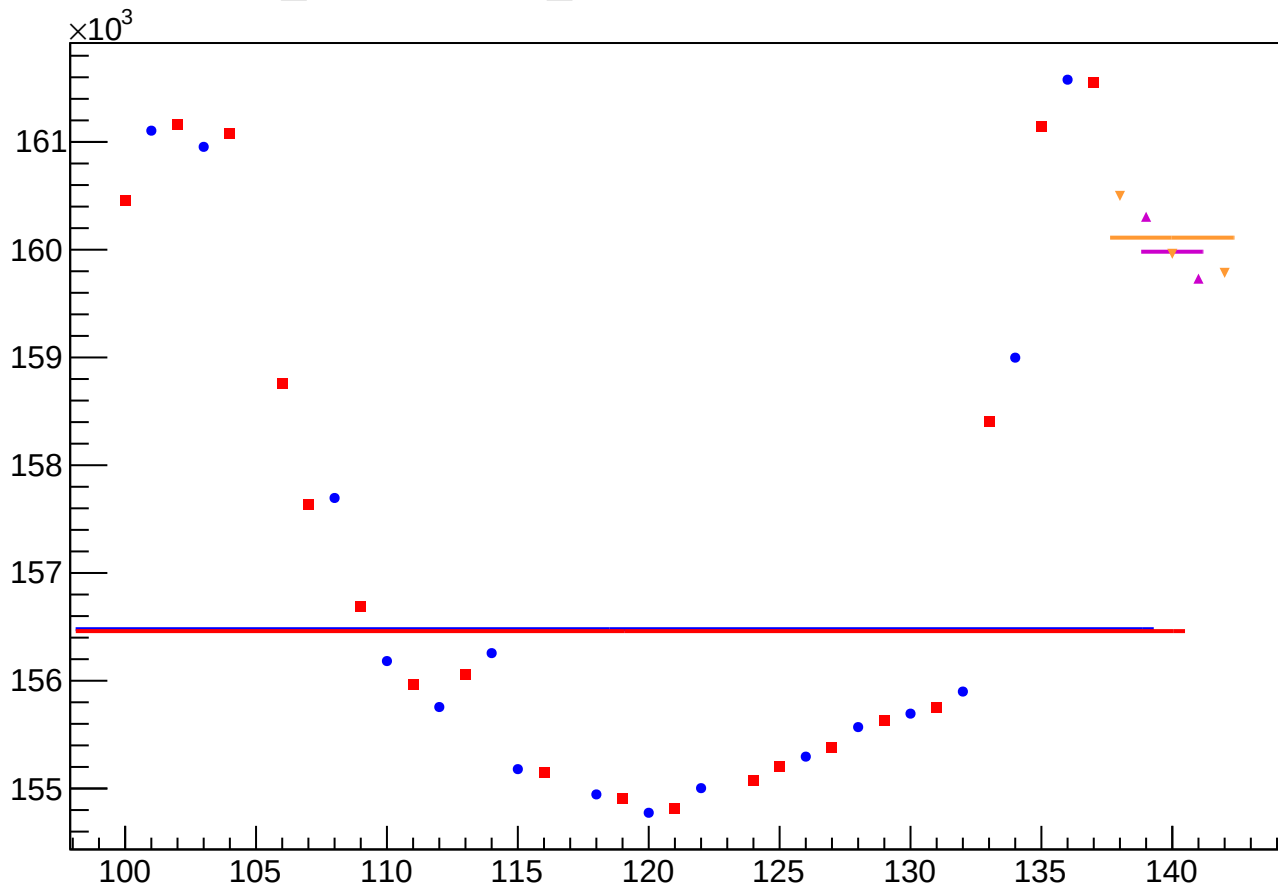
Right: 132.281 $\pm$ 0.026 χ^2/NDF : 3047045.4/34

In: 140.943 $\pm$ 0.036 χ^2/NDF :1540588.2/17

Out: 135.571 $\pm$ 0.033 χ^2/NDF :1833371.2/21

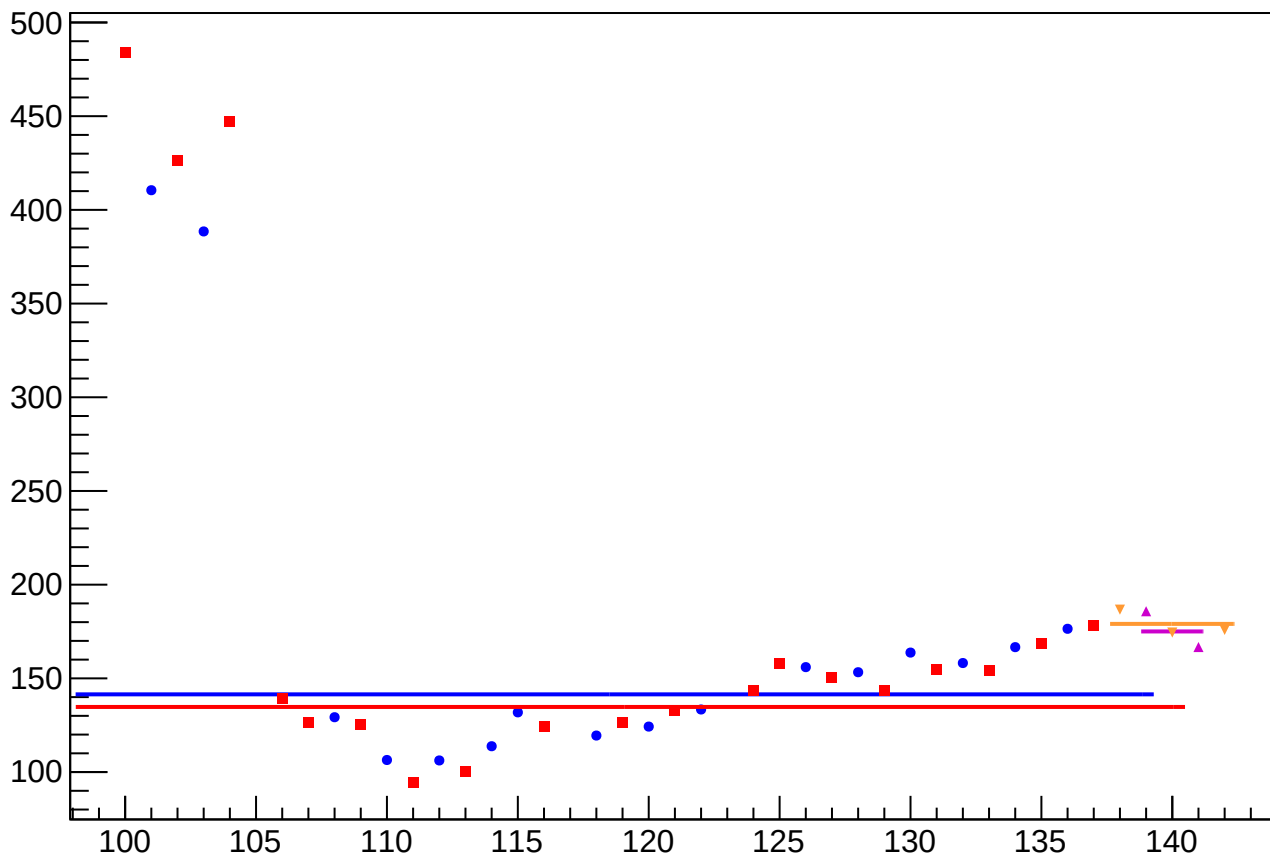
All: 138.075 $\pm$ 0.024 χ^2/NDF : 3386124.6/39

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 156478.318 $\pm$ 0.057	χ^2/NDF : 1289449253.3/15	Left: 160050.343 $\pm$ 0.092	χ^2/NDF : 10400958.5/4
Left Out: 160111.873 $\pm$ 0.127	χ^2/NDF : 5382551.9/2	Right: 156468.838 $\pm$ 0.039	χ^2/NDF : 2390033091.6/1
Right Out: 156460.550 $\pm$ 0.053	χ^2/NDF : 1100531658.8/18	In: 157012.267 $\pm$ 0.052	χ^2/NDF : 1873443246.6/1
Left In: 159981.378 $\pm$ 0.134	χ^2/NDF : 4517003.5/1	Out: 157007.665 $\pm$ 0.049	χ^2/NDF : 1813713244.2/2
		All: 157009.815 $\pm$ 0.036	χ^2/NDF : 368716063.5/1

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 141.470+/-0.040 χ^2/NDF : 1391933.2/15

Left Out: 179.068+/-0.089 χ^2/NDF : 3956.5/2

Right Out: 134.746+/-0.038 χ^2/NDF : 1579031.5/18

Left In: 175.037+/-0.095 χ^2/NDF : 9987.6/1

Left: 177.167+/-0.065 χ^2/NDF : 14901.0/4

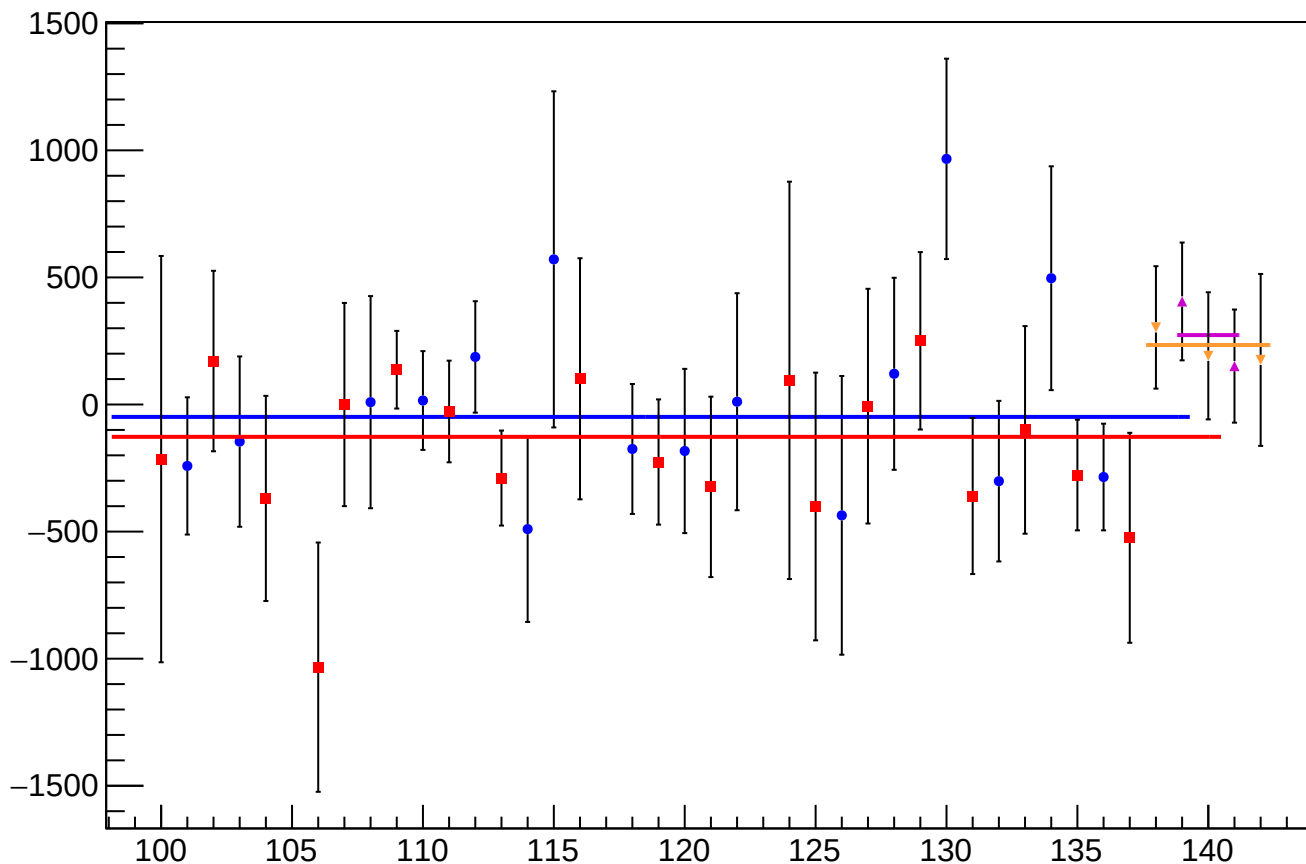
Right: 137.883+/-0.027 χ^2/NDF : 2985912.1/34

In: 146.586+/-0.037 χ^2/NDF : 1508332.9/17

Out: 141.387+/-0.035 χ^2/NDF : 1791572.9/21

All: 143.816+/-0.025 χ^2/NDF : 3310434.8/39

asym_bcm_target_mean vs Slug, Sign Corrected



Right In: -48.749 ± 76.592 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 234.079 ± 154.364 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -127.249 ± 68.506 $\chi^2/\text{NDF}: 12.9/18$

Left In: 273.127 ± 160.479 $\chi^2/\text{NDF}: 0.6/1$

Left: 252.845 ± 111.251 $\chi^2/\text{NDF}: 0.8/4$

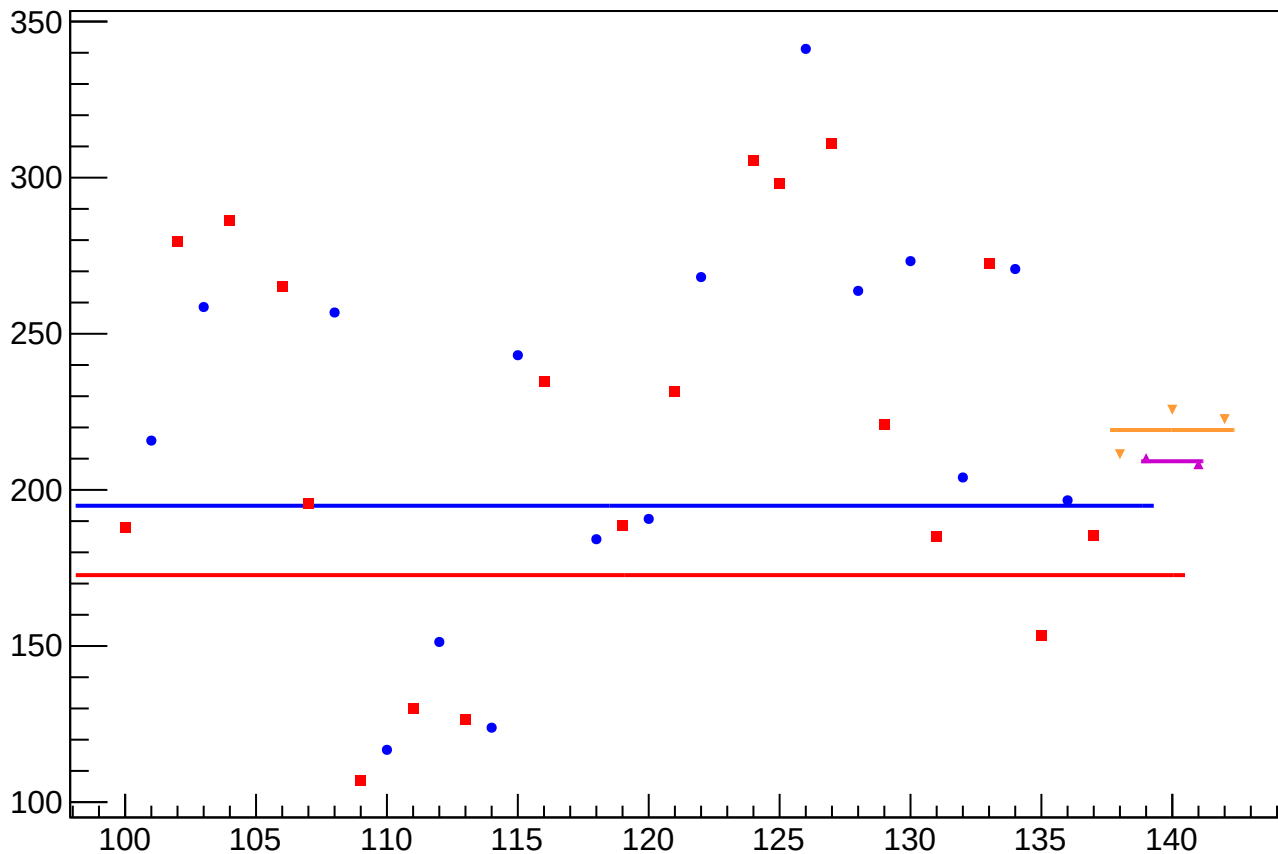
Right: -92.360 ± 51.061 $\chi^2/\text{NDF}: 28.9/34$

In: 10.967 ± 69.123 $\chi^2/\text{NDF}: 19.3/17$

Out: -67.794 ± 62.617 $\chi^2/\text{NDF}: 17.6/21$

All: -32.294 ± 46.407 $\chi^2/\text{NDF}: 37.6/39$

asym_bcm_target_rms vs Slug, Sign Corrected



Right In: 194.923+/-0.054 χ^2/NDF : 1028901.2/15

Left Out: 219.182+/-0.109 χ^2/NDF : 3632.9/2

Right Out: 172.704+/-0.048 χ^2/NDF : 1631350.4/18

Left In: 209.175+/-0.113 χ^2/NDF : 72.5/1

Left: 214.373+/-0.079 χ^2/NDF : 7744.8/4

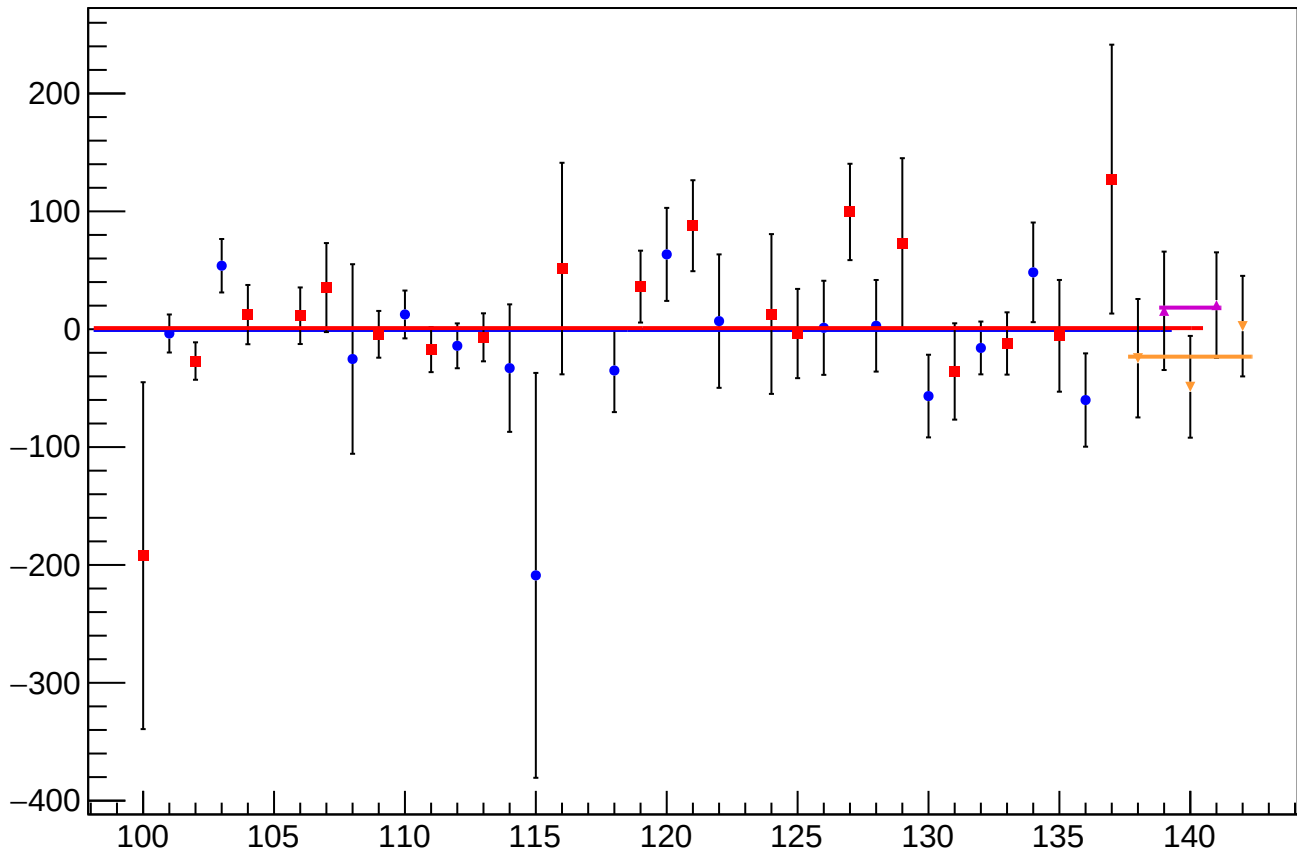
Right: 182.579+/-0.036 χ^2/NDF : 2753755.7/34

In: 197.567+/-0.049 χ^2/NDF : 1041821.9/17

Out: 180.352+/-0.044 χ^2/NDF : 1786463.3/21

All: 188.111+/-0.033 χ^2/NDF : 2896423.5/39

asym_bcm_an_diff_mean vs Slug, Sign Corrected



Right In: -0.624 ± 7.340 χ^2/NDF : 18.9/15

Left Out: -23.282 ± 25.976 χ^2/NDF : 0.7/2

Right Out: 0.938 ± 6.767 χ^2/NDF : 23.1/18

Left In: 18.325 ± 33.416 χ^2/NDF : 0.0/1

Left: -7.610 ± 20.509 χ^2/NDF : 1.7/4

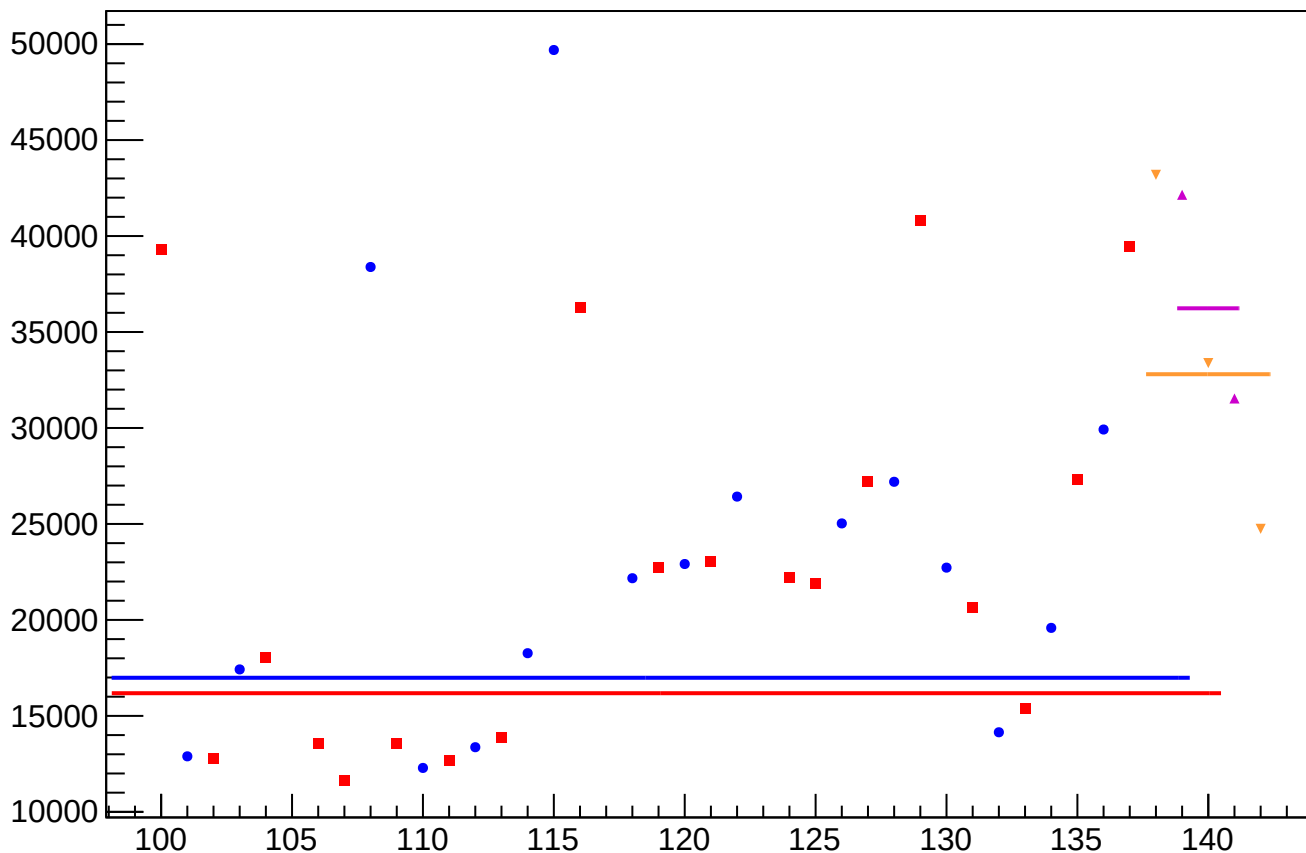
Right: 0.220 ± 4.975 χ^2/NDF : 42.0/34

In: 0.248 ± 7.169 χ^2/NDF : 19.2/17

Out: -0.602 ± 6.548 χ^2/NDF : 24.6/21

All: -0.215 ± 4.835 χ^2/NDF : 43.8/39

asym_bcm_an_diff_rms vs Slug, Sign Corrected



Right In: 16986.402+/-5.190

χ^2/NDF : 1194096.1/15

Left: 34094.406+/-14.502

χ^2/NDF : 220102.4/4

Left Out: 32801.037+/-18.368

χ^2/NDF : 157172.6/2

Right: 16551.529+/-3.518

χ^2/NDF : 2458578.1/34

Right Out: 16181.928+/-4.785

χ^2/NDF : 1251495.8/18

In: 17872.398+/-5.070

χ^2/NDF : 1876902.7/17

Out: 17238.110+/-4.630

χ^2/NDF : 2175290.3/21

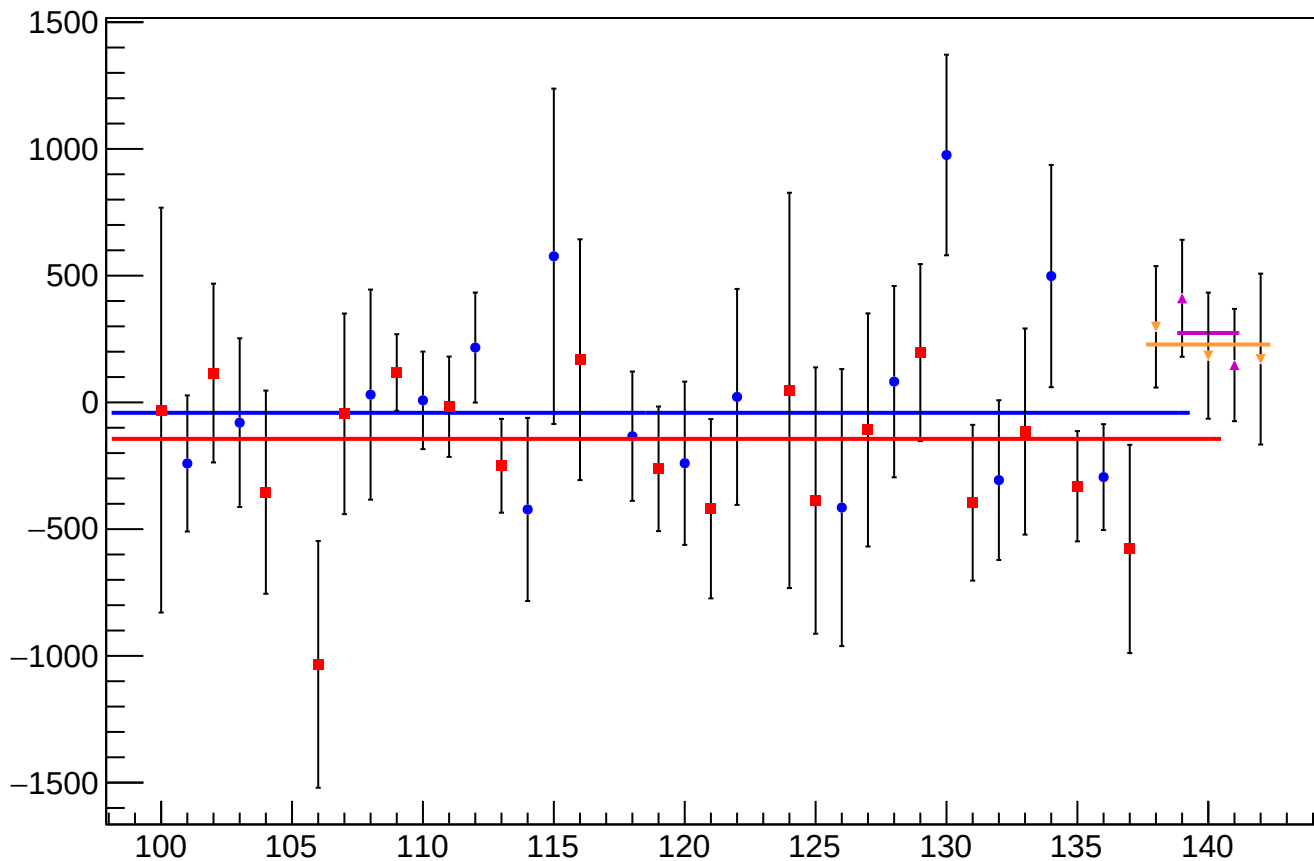
Left In: 36234.824+/-23.629

χ^2/NDF : 49766.1/1

All: 17526.604+/-3.419

χ^2/NDF : 4060727.4/3

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -41.048 ± 76.156 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 228.383 ± 153.636 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -143.821 ± 68.080 $\chi^2/\text{NDF}: 13.0/18$

Left In: 273.699 ± 159.807 $\chi^2/\text{NDF}: 0.7/1$

Left: 250.149 ± 110.754 $\chi^2/\text{NDF}: 0.9/4$

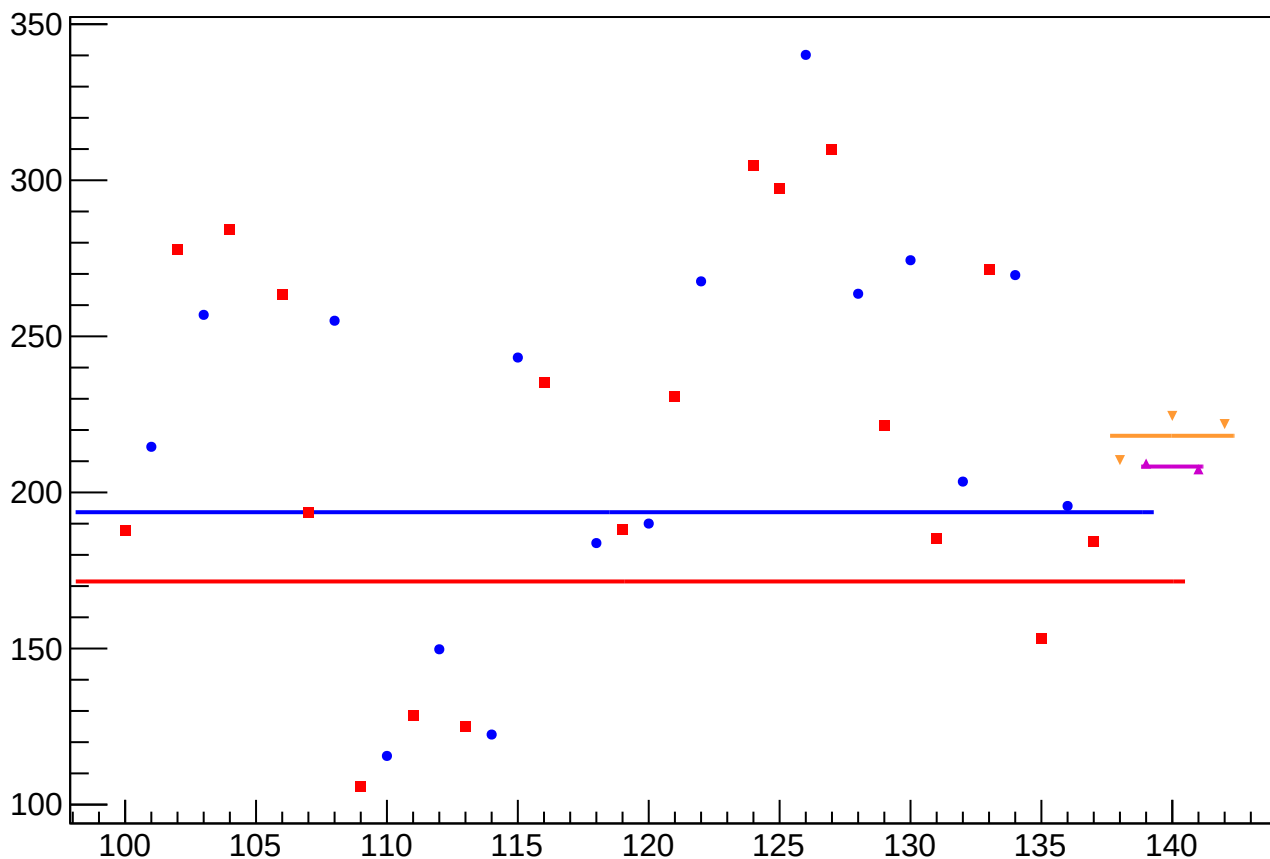
Right: -98.171 ± 50.756 $\chi^2/\text{NDF}: 29.5/34$

In: 17.203 ± 68.749 $\chi^2/\text{NDF}: 19.3/17$

Out: -82.730 ± 62.243 $\chi^2/\text{NDF}: 18.1/21$

All: -37.715 ± 46.141 $\chi^2/\text{NDF}: 38.5/39$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.670+/-0.054 χ^2/NDF : 1049772.0/15

Left Out: 218.150+/-0.109 χ^2/NDF :3668.6/2

Right Out: 171.484+/-0.048 χ^2/NDF : 1652989.7/18

Left In: 208.296+/-0.113 χ^2/NDF :66.8/1

Left: 213.417+/-0.078 χ^2/NDF : 7687.2/4

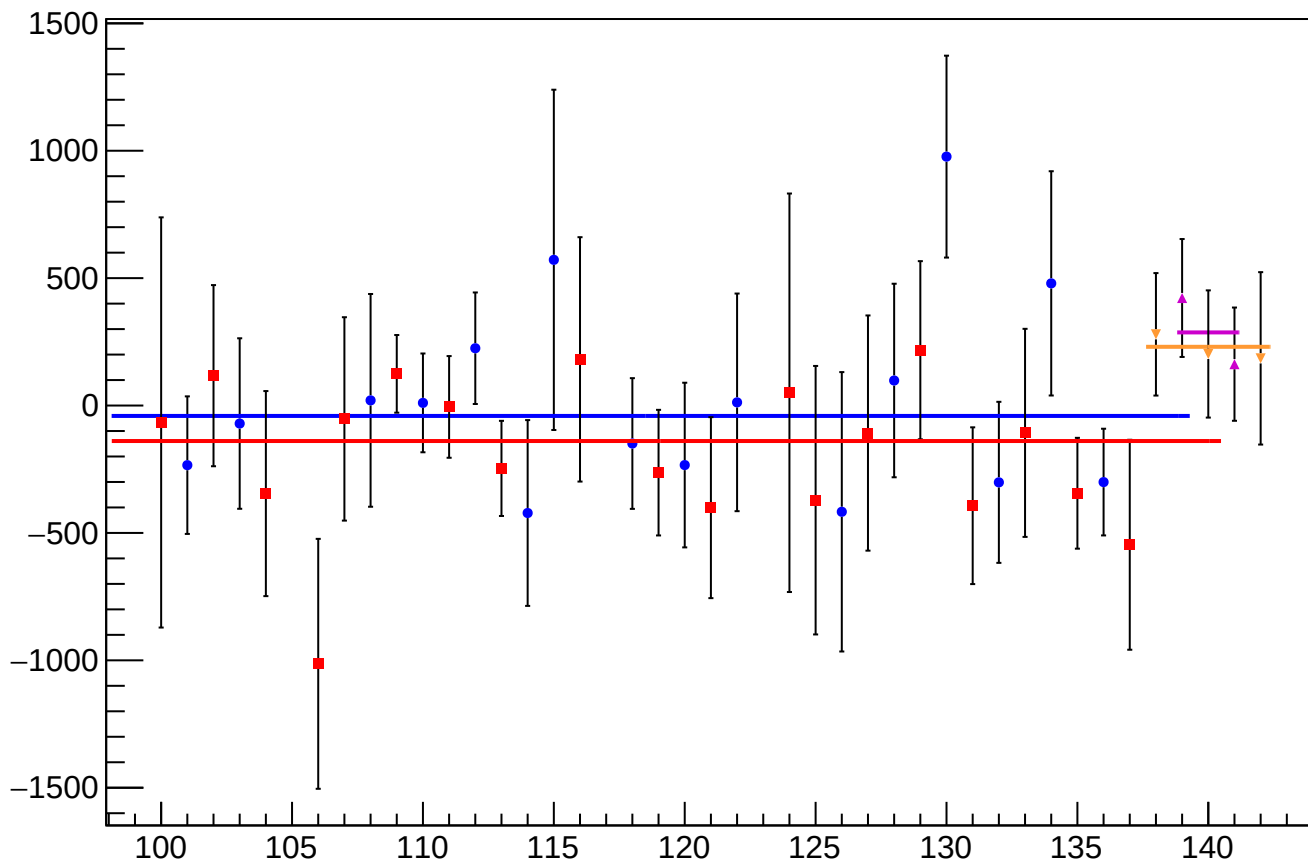
Right: 181.339+/-0.036 χ^2/NDF : 2797109.1/34

In: 196.377+/-0.049 χ^2/NDF :1063490.0/17

Out: 179.143+/-0.044 χ^2/NDF :1810892.0/21

All: 186.906+/-0.033 χ^2/NDF : 2943449.4/39

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -40.798 ± 76.579 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 230.507 ± 154.130 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -139.292 ± 68.459 $\chi^2/\text{NDF}: 12.9/18$

Left In: 286.975 ± 160.284 $\chi^2/\text{NDF}: 0.7/1$

Left: 257.636 ± 111.098 $\chi^2/\text{NDF}: 0.8/4$

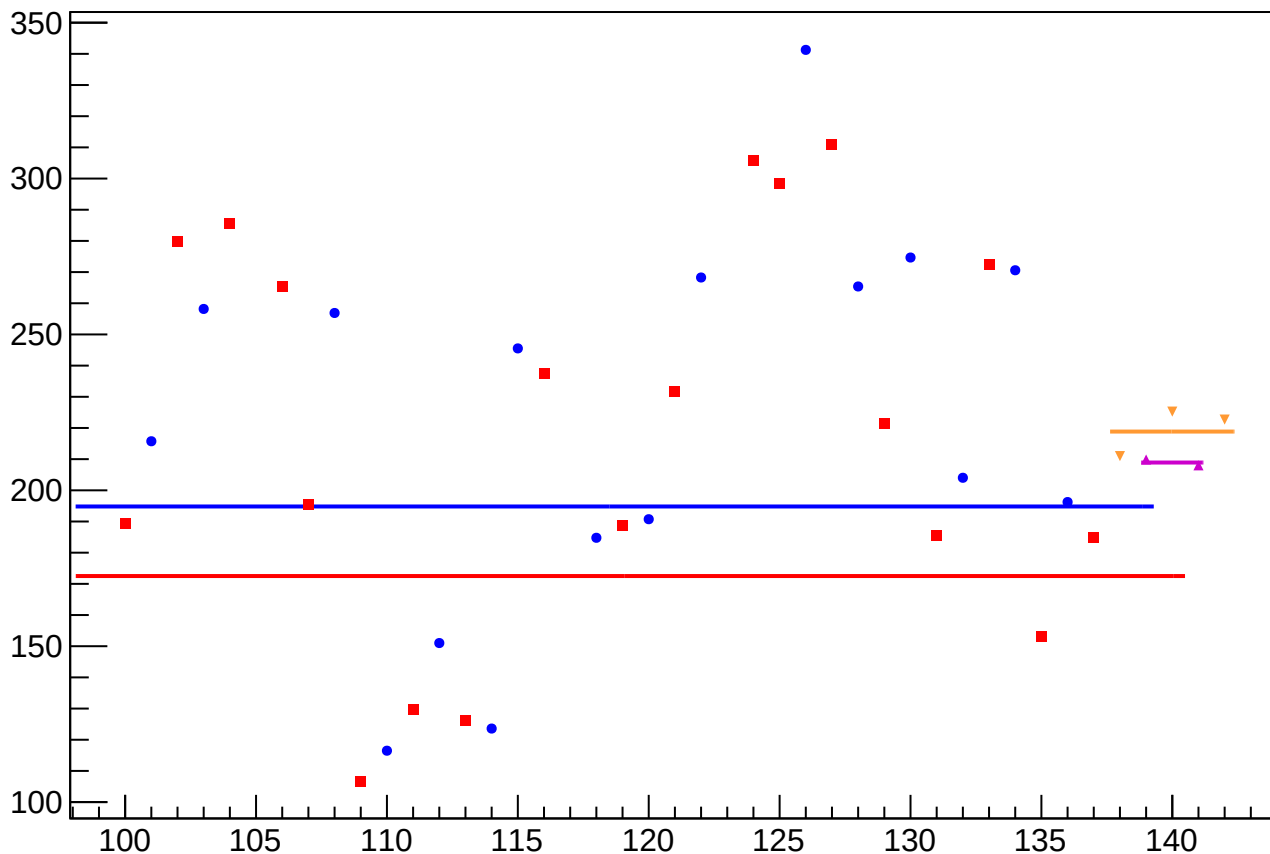
Right: -95.542 ± 51.038 $\chi^2/\text{NDF}: 29.2/34$

In: 20.117 ± 69.098 $\chi^2/\text{NDF}: 19.4/17$

Out: -78.359 ± 62.565 $\chi^2/\text{NDF}: 17.8/21$

All: -33.995 ± 46.378 $\chi^2/\text{NDF}: 38.3/39$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.819+/-0.054 χ^2/NDF : 1039096.7/15

Left Out: 218.847+/-0.109 χ^2/NDF : 3718.6/2

Right Out: 172.507+/-0.048 χ^2/NDF : 1642059.1/18

Left In: 208.915+/-0.113 χ^2/NDF : 67.7/1

Left: 214.075+/-0.079 χ^2/NDF : 7776.2/4

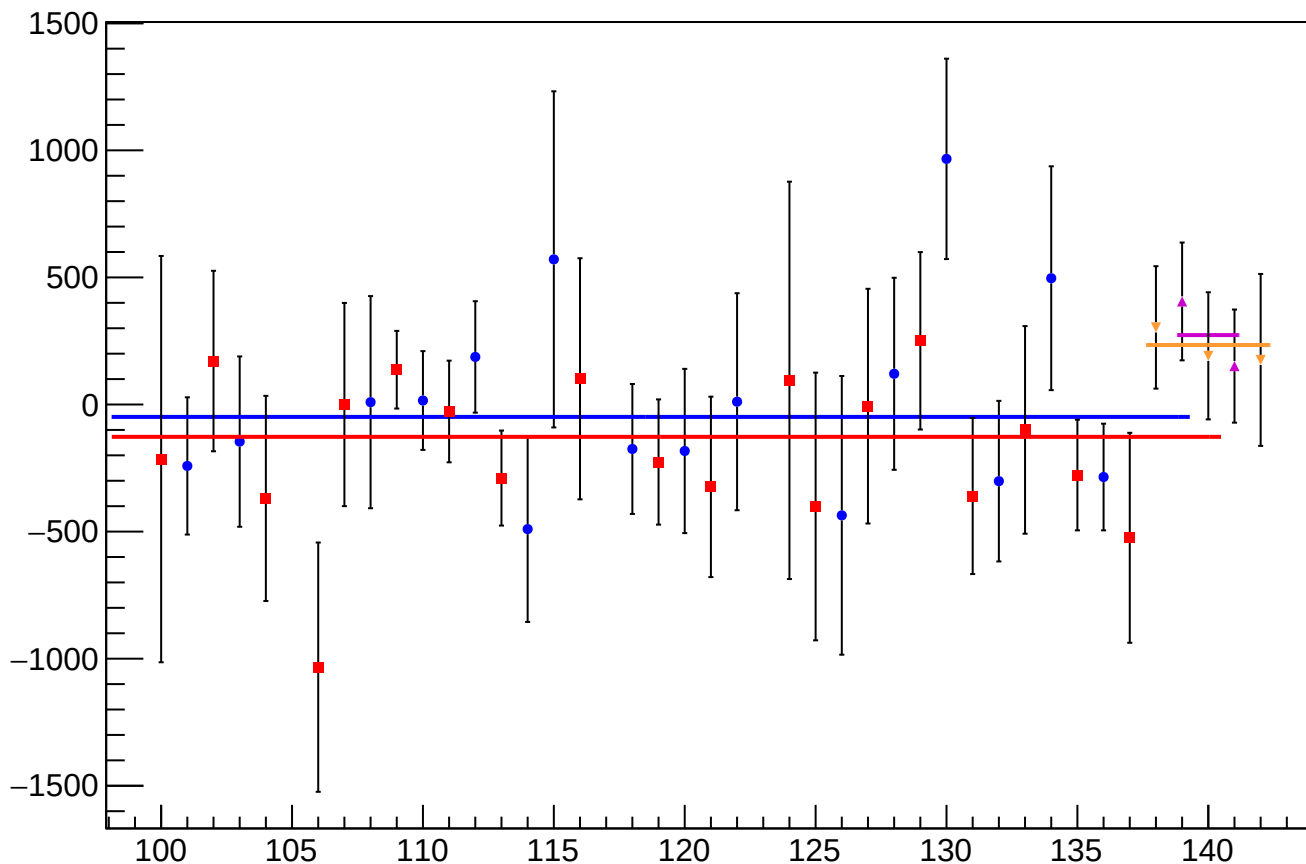
Right: 182.418+/-0.036 χ^2/NDF : 2775527.6/34

In: 197.439+/-0.049 χ^2/NDF : 1051757.0/17

Out: 180.142+/-0.044 χ^2/NDF : 1796776.2/21

All: 187.935+/-0.033 χ^2/NDF : 2917396.0/39

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -48.749 $\pm$ 76.592 χ^2 /NDF: 15.4/15

Left Out: 234.079 $\pm$ 154.364 χ^2 /NDF:0.1/2

Right Out: -127.249 $\pm$ 68.506 χ^2 /NDF: 12.9/18

Left In: 273.127 $\pm$ 160.479 χ^2 /NDF:0.6/1

Left: 252.845 $\pm$ 111.251 χ^2 /NDF: 0.8/4

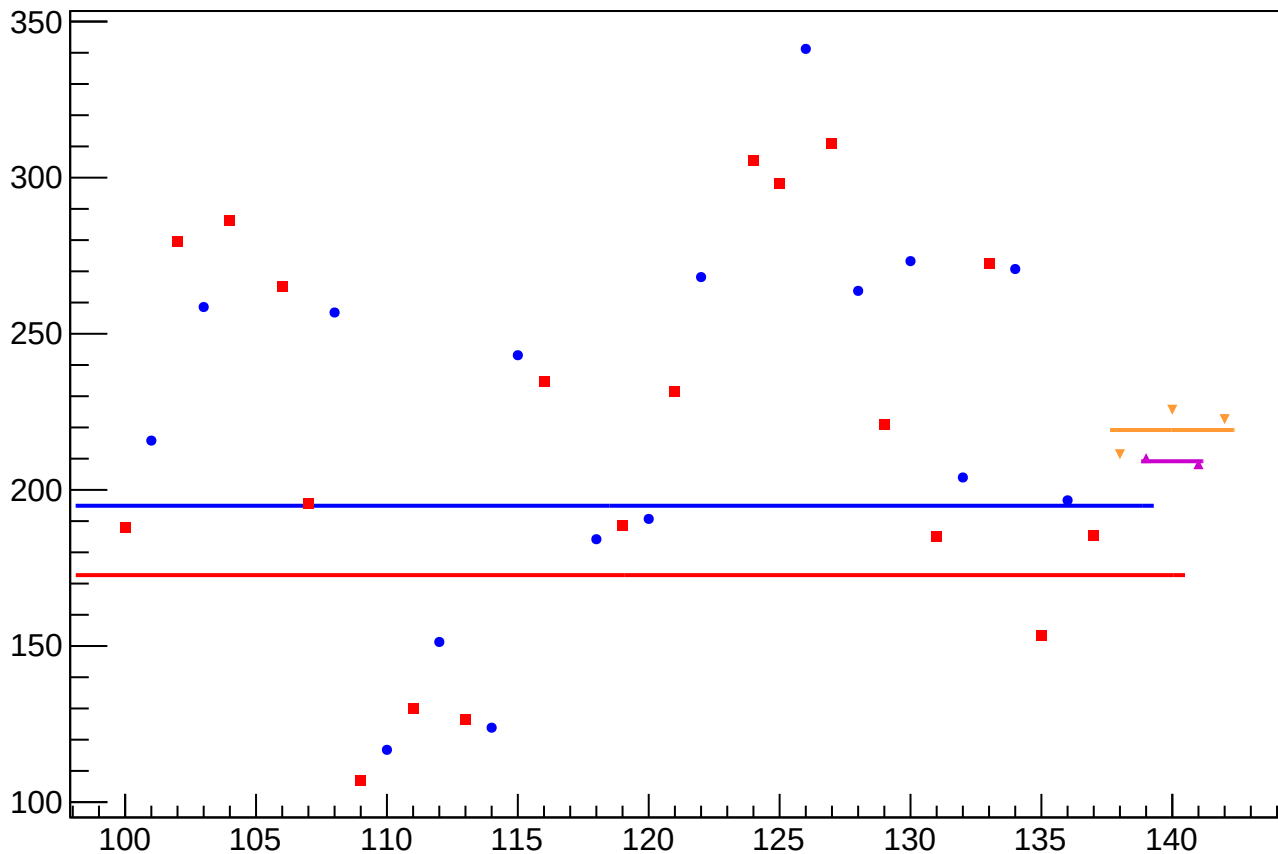
Right: -92.360 $\pm$ 51.061 χ^2 /NDF: 28.9/34

In: 10.967 $\pm$ 69.123 χ^2 /NDF:19.3/17

Out: -67.794 $\pm$ 62.617 χ^2 /NDF:17.6/21

All: -32.294 $\pm$ 46.407 χ^2 /NDF: 37.6/39

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.923+/-0.054 χ^2/NDF : 1028901.2/15

Left Out: 219.182+/-0.109 χ^2/NDF : 3632.9/2

Right Out: 172.704+/-0.048 χ^2/NDF : 1631350.4/18

Left In: 209.175+/-0.113 χ^2/NDF : 72.5/1

Left: 214.373+/-0.079 χ^2/NDF : 7744.8/4

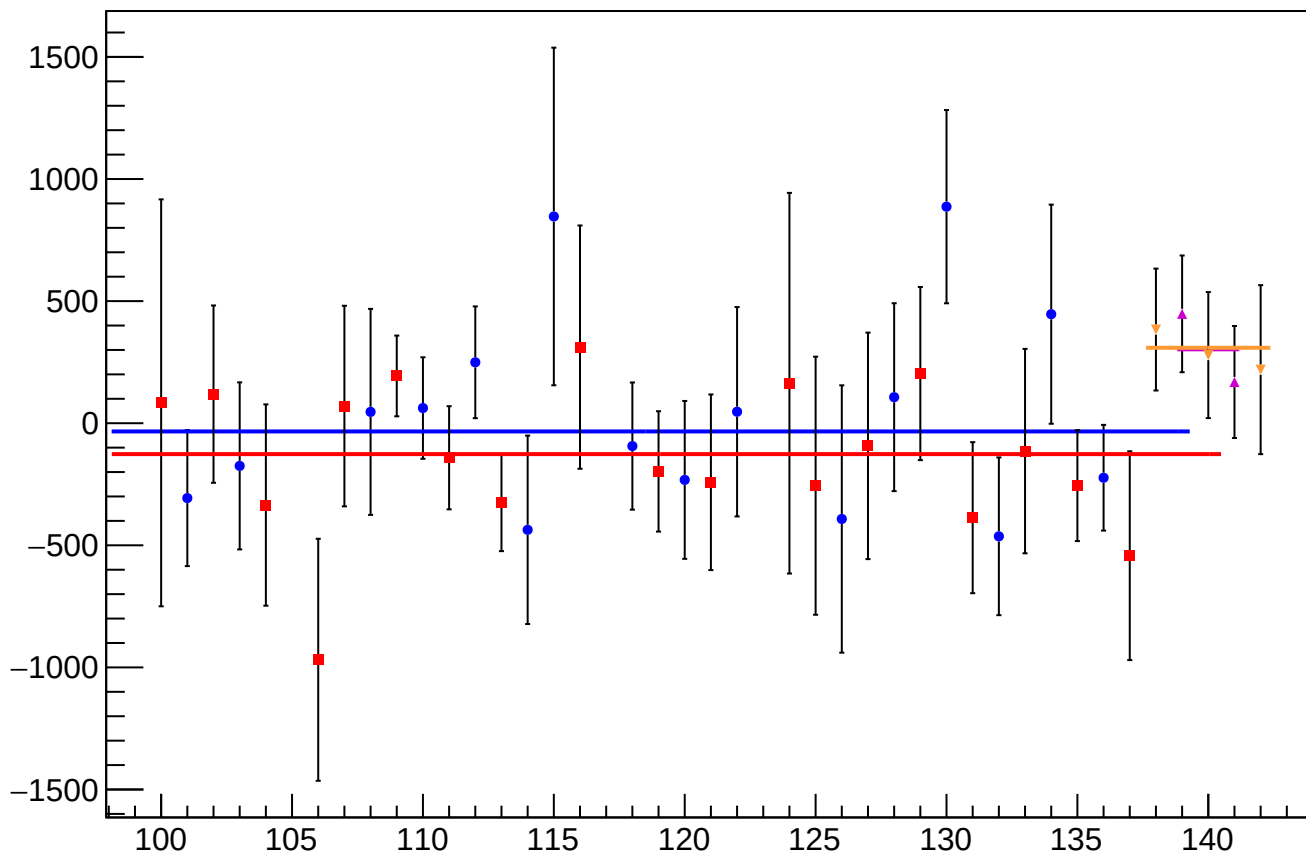
Right: 182.579+/-0.036 χ^2/NDF : 2753755.7/34

In: 197.567+/-0.049 χ^2/NDF : 1041821.9/17

Out: 180.352+/-0.044 χ^2/NDF : 1786463.3/21

All: 188.111+/-0.033 χ^2/NDF : 2896423.5/39

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -33.731 ± 78.996 $\chi^2/\text{NDF}: 15.7/15$

Left Out: 308.947 ± 159.284 $\chi^2/\text{NDF}: 0.2/2$

Right Out: -126.563 ± 71.309 $\chi^2/\text{NDF}: 12.7/18$

Left In: 302.571 ± 165.501 $\chi^2/\text{NDF}: 0.7/1$

Left: 305.881 ± 114.766 $\chi^2/\text{NDF}: 0.9/4$

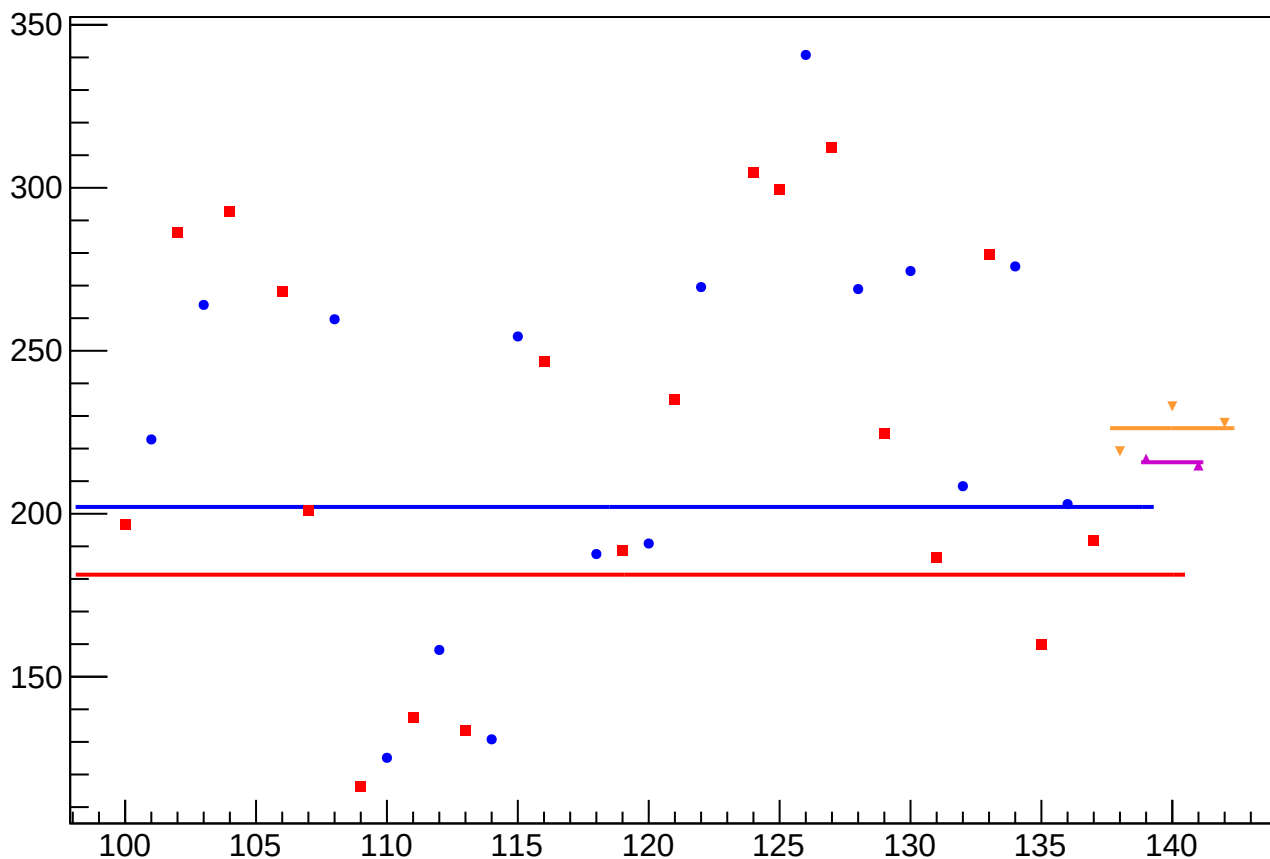
Right: -84.882 ± 52.933 $\chi^2/\text{NDF}: 29.2/34$

In: 28.671 ± 71.291 $\chi^2/\text{NDF}: 19.8/17$

Out: -53.851 ± 65.085 $\chi^2/\text{NDF}: 19.1/21$

All: -16.338 ± 48.066 $\chi^2/\text{NDF}: 39.6/39$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 202.090 $\pm$ 0.056 χ^2 /NDF: 910259.2/15

Left Out: 226.259 $\pm$ 0.113 χ^2 /NDF:3001.9/2

Right Out: 181.312 $\pm$ 0.050 χ^2 /NDF: 1440989.4/18

Left In: 215.800 $\pm$ 0.117 χ^2 /NDF:76.5/1

Left: 221.230 $\pm$ 0.081 χ^2 /NDF: 7225.2/4

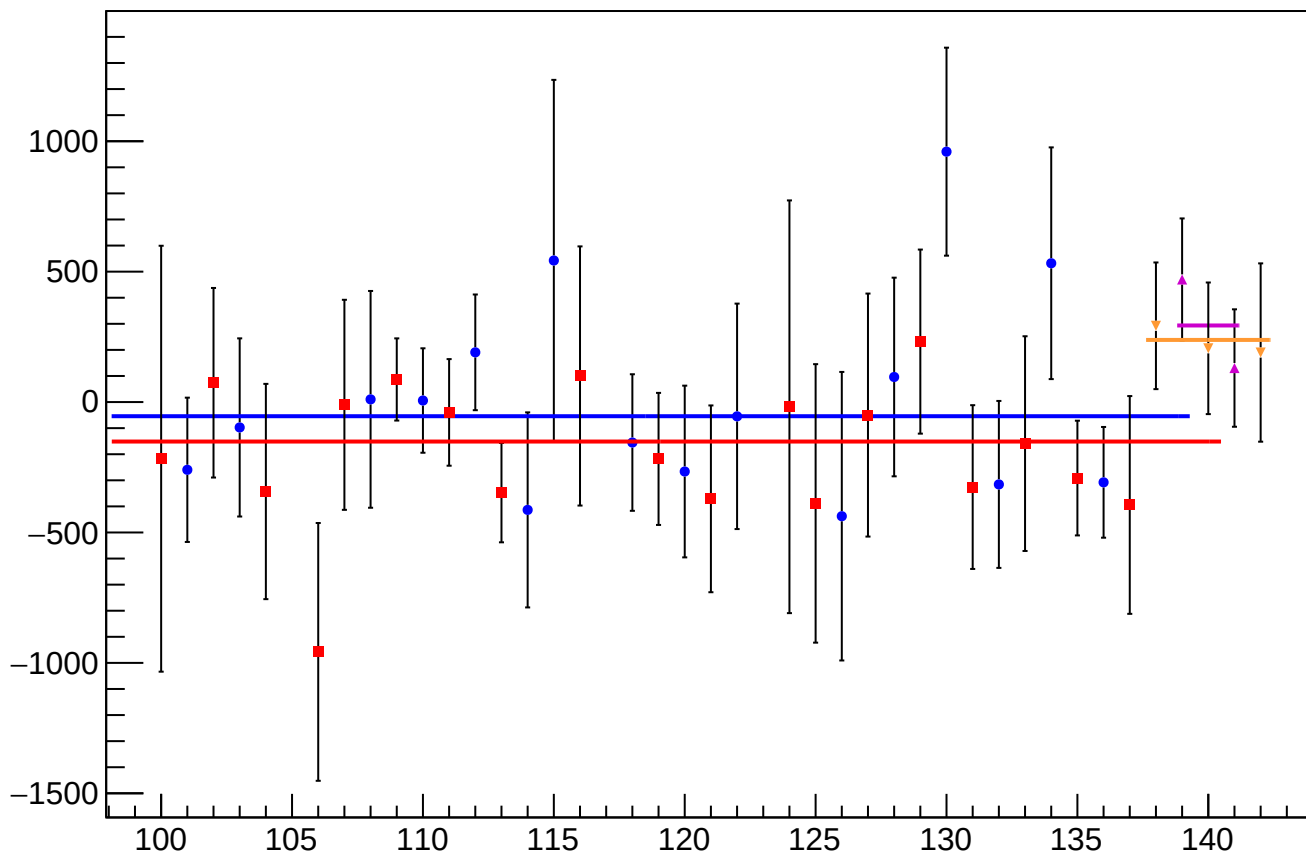
Right: 190.641 $\pm$ 0.037 χ^2 /NDF: 2427488.6/34

In: 204.634 $\pm$ 0.050 χ^2 /NDF:921513.7/17

Out: 188.817 $\pm$ 0.046 χ^2 /NDF:1576656.6/21

All: 196.007 $\pm$ 0.034 χ^2 /NDF: 2551868.7/39

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -54.254 ± 77.946 $\chi^2/\text{NDF}: 15.1/15$

Left Out: 238.227 ± 155.736 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -151.358 ± 69.902 $\chi^2/\text{NDF}: 10.2/18$

Left In: 293.625 ± 162.243 $\chi^2/\text{NDF}: 1.1/1$

Left: 264.793 ± 112.352 $\chi^2/\text{NDF}: 1.2/4$

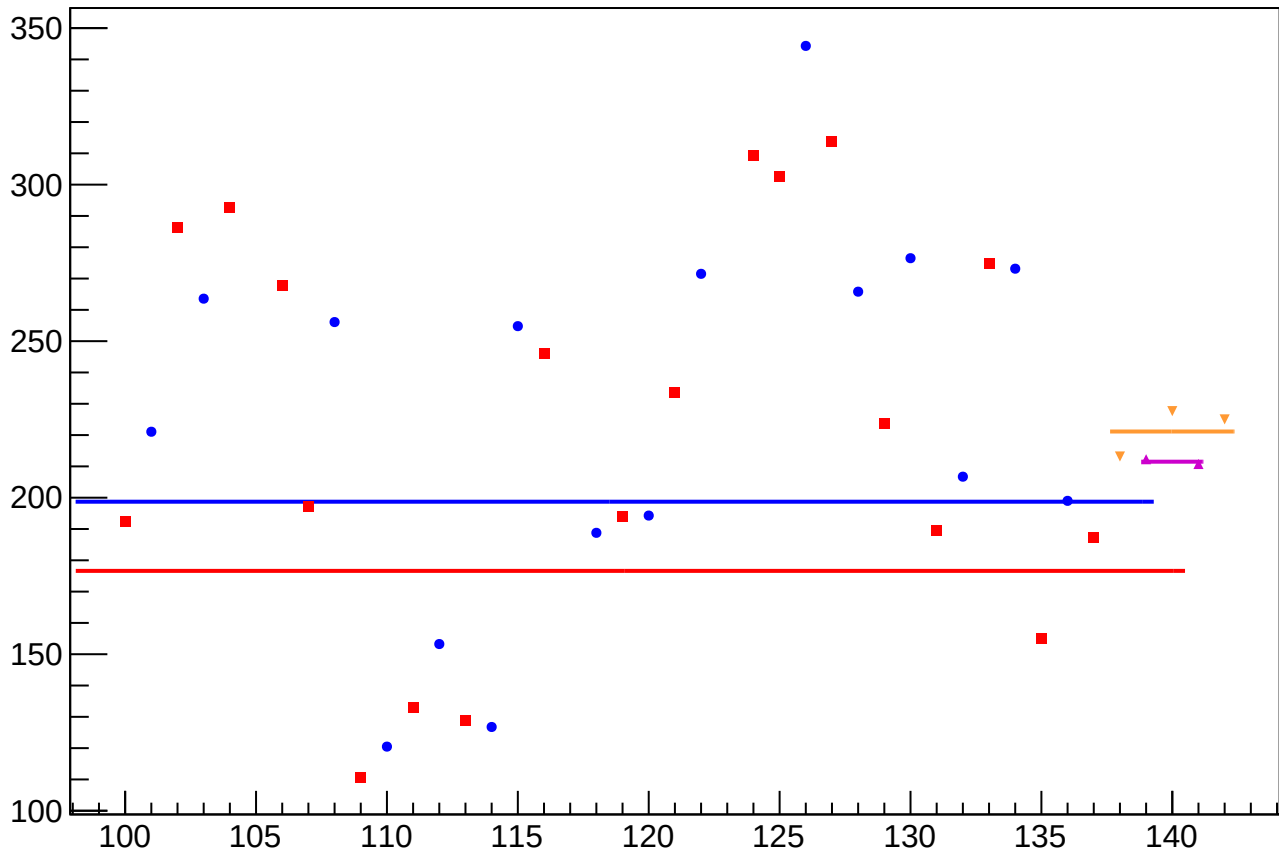
Right: -108.074 ± 52.040 $\chi^2/\text{NDF}: 26.2/34$

In: 10.983 ± 70.258 $\chi^2/\text{NDF}: 19.9/17$

Out: -86.031 ± 63.772 $\chi^2/\text{NDF}: 15.5/21$

All: -42.208 ± 47.221 $\chi^2/\text{NDF}: 36.5/39$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.718 $\pm$ 0.055 χ^2 /NDF: 994068.9/15

Left Out: 221.141 $\pm$ 0.110 χ^2 /NDF: 3748.9/2

Right Out: 176.621 $\pm$ 0.049 χ^2 /NDF: 1595710.1/18

Left In: 211.500 $\pm$ 0.115 χ^2 /NDF: 44.0/1

Left: 216.518 $\pm$ 0.079 χ^2 /NDF: 7468.9/4

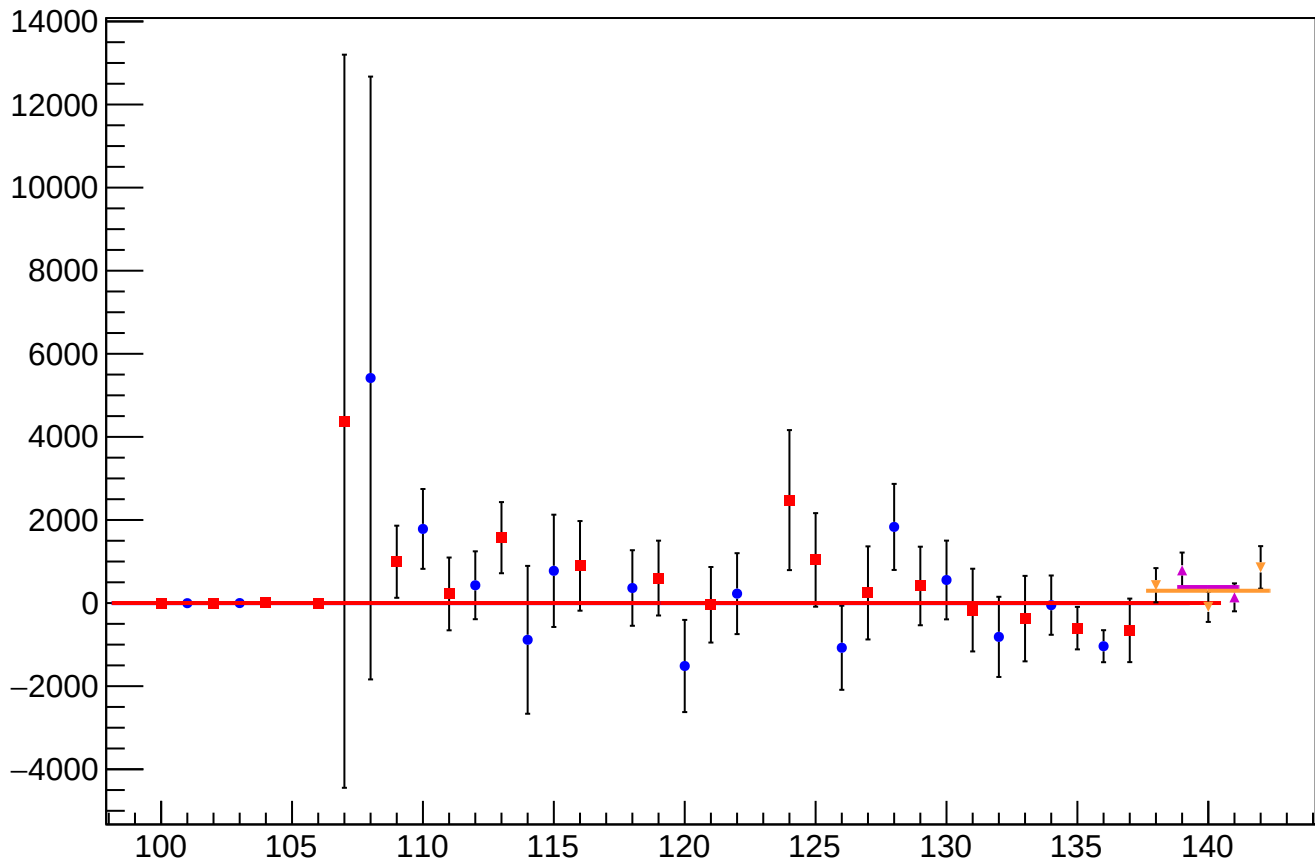
Right: 186.471 $\pm$ 0.037 χ^2 /NDF: 2678866.0/34

In: 201.115 $\pm$ 0.050 χ^2 /NDF: 1004197.4/17

Out: 184.087 $\pm$ 0.045 χ^2 /NDF: 1735493.3/21

All: 191.779 $\pm$ 0.033 χ^2 /NDF: 2804106.8/39

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.239 ± 2.171 $\chi^2/\text{NDF}: 19.9/15$

Left Out: 296.654 ± 240.597 $\chi^2/\text{NDF}: 2.4/2$

Right Out: 1.377 ± 2.022 $\chi^2/\text{NDF}: 16.8/18$

Left In: 386.088 ± 264.439 $\chi^2/\text{NDF}: 1.4/1$

Left: 337.158 ± 177.961 $\chi^2/\text{NDF}: 3.9/4$

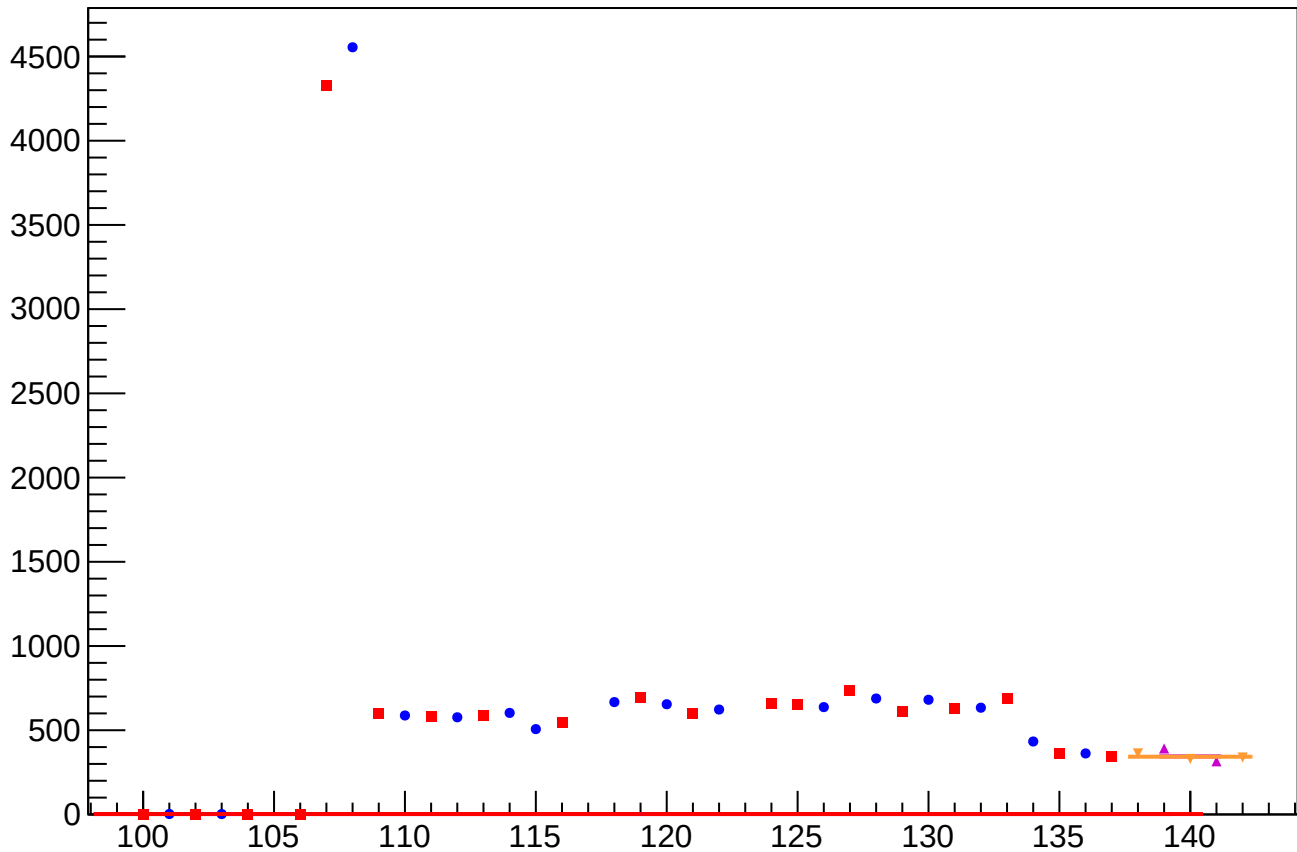
Right: 0.162 ± 1.480 $\chi^2/\text{NDF}: 37.5/34$

In: -1.213 ± 2.171 $\chi^2/\text{NDF}: 23.5/17$

Out: 1.398 ± 2.022 $\chi^2/\text{NDF}: 20.8/21$

All: 0.185 ± 1.480 $\chi^2/\text{NDF}: 45.1/39$

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.477+/-0.002 χ^2/NDF : 11626192.3/15

Left Out: 342.749+/-0.170 χ^2/NDF : 7467.6/2

Right Out: 2.462+/-0.001 χ^2/NDF : 11545445.6/18

Left In: 344.630+/-0.187 χ^2/NDF : 39245.7/1

Left: 343.601+/-0.126 χ^2/NDF : 46768.7/4

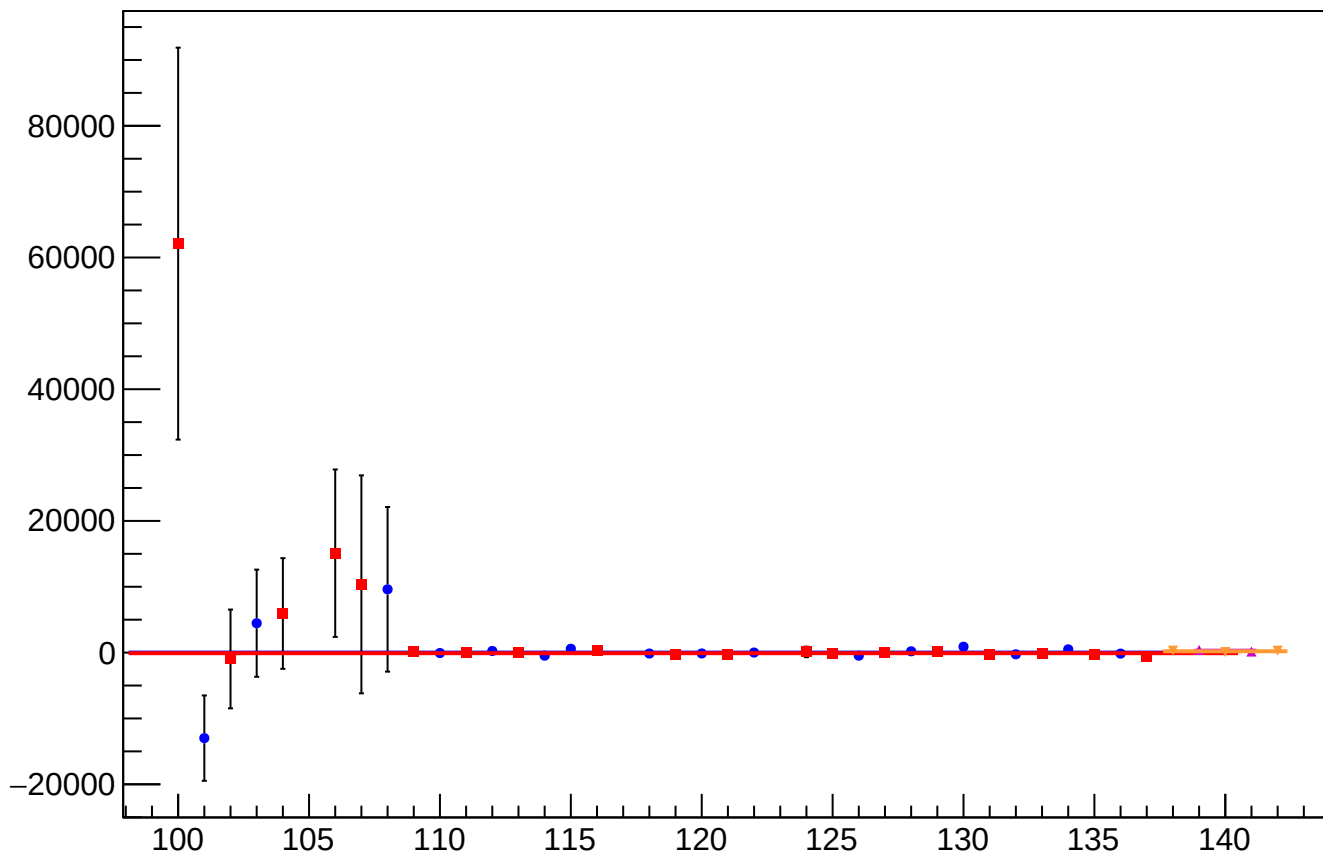
Right: 2.469+/-0.001 χ^2/NDF : 23171686.0/34

In: 2.500+/-0.002 χ^2/NDF : 15013486.4/17

Out: 2.486+/-0.001 χ^2/NDF : 15553366.7/21

All: 2.493+/-0.001 χ^2/NDF : 30566894.8/39

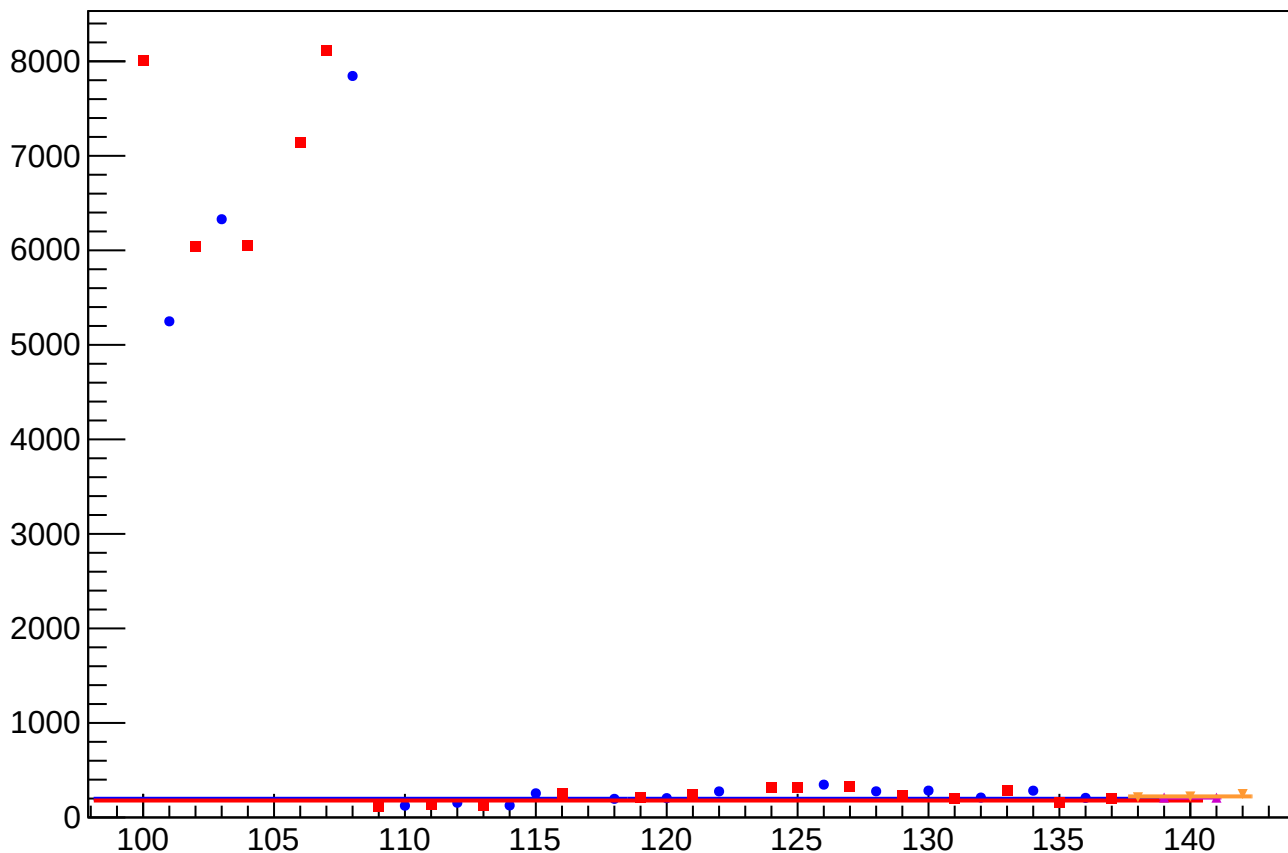
asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 0.575 ± 87.823 $\chi^2/\text{NDF}: 16.8/15$
 Left Out: 203.502 ± 157.244 $\chi^2/\text{NDF}: 0.5/2$
 Right Out: -88.089 ± 81.605 $\chi^2/\text{NDF}: 14.9/18$
 Left In: 287.774 ± 161.539 $\chi^2/\text{NDF}: 0.6/1$

Left: 244.503 ± 112.676 $\chi^2/\text{NDF}: 1.2/4$
 Right: -47.007 ± 59.781 $\chi^2/\text{NDF}: 32.3/34$
 In: 66.097 ± 77.157 $\chi^2/\text{NDF}: 19.9/17$
 Out: -26.219 ± 72.432 $\chi^2/\text{NDF}: 18.0/21$
 All: 17.026 ± 52.809 $\chi^2/\text{NDF}: 38.7/39$

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.620+/-0.062 χ^2/NDF : 3957192.6/15

Left Out: 222.658+/-0.111 χ^2/NDF :11711.8/2

Right Out: 179.250+/-0.058 χ^2/NDF : 4418422.9/18

Left In: 210.104+/-0.114 χ^2/NDF :19.8/1

Left: 216.550+/-0.080 χ^2/NDF : 17933.6/4

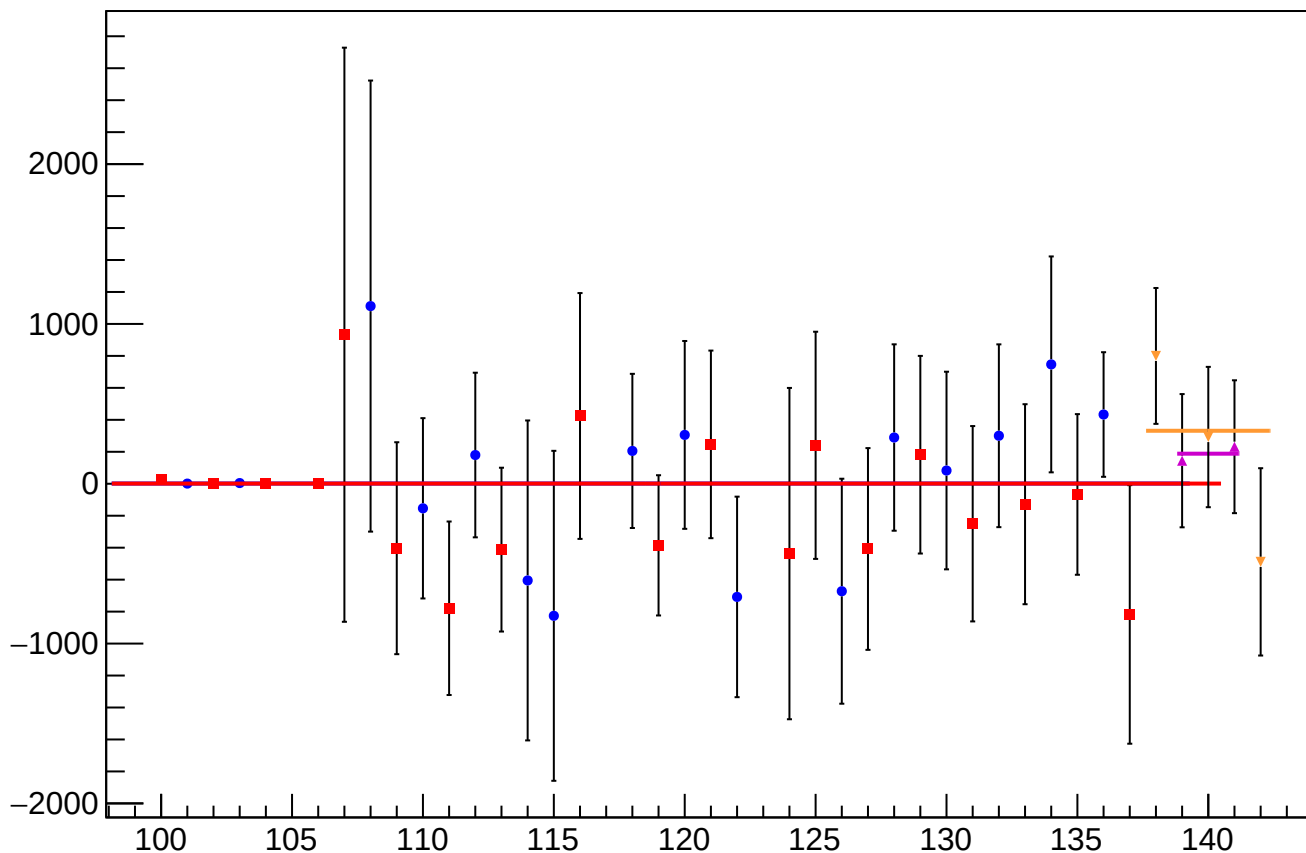
Right: 187.761+/-0.042 χ^2/NDF : 8422574.8/34

In: 200.468+/-0.055 χ^2/NDF :3966432.5/17

Out: 188.460+/-0.051 χ^2/NDF :4550206.4/21

All: 194.085+/-0.037 χ^2/NDF : 8542387.1/39

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: 1.456 $\pm$ 1.660 χ^2 /NDF: 7.9/15

Left Out: 331.535 $\pm$ 270.831 χ^2 /NDF:3.2/2

Right Out: 1.094 $\pm$ 1.528 χ^2 /NDF: 9.2/18

Left In: 188.116 $\pm$ 294.329 χ^2 /NDF:0.0/1

Left: 265.778 $\pm$ 199.297 χ^2 /NDF: 3.3/4

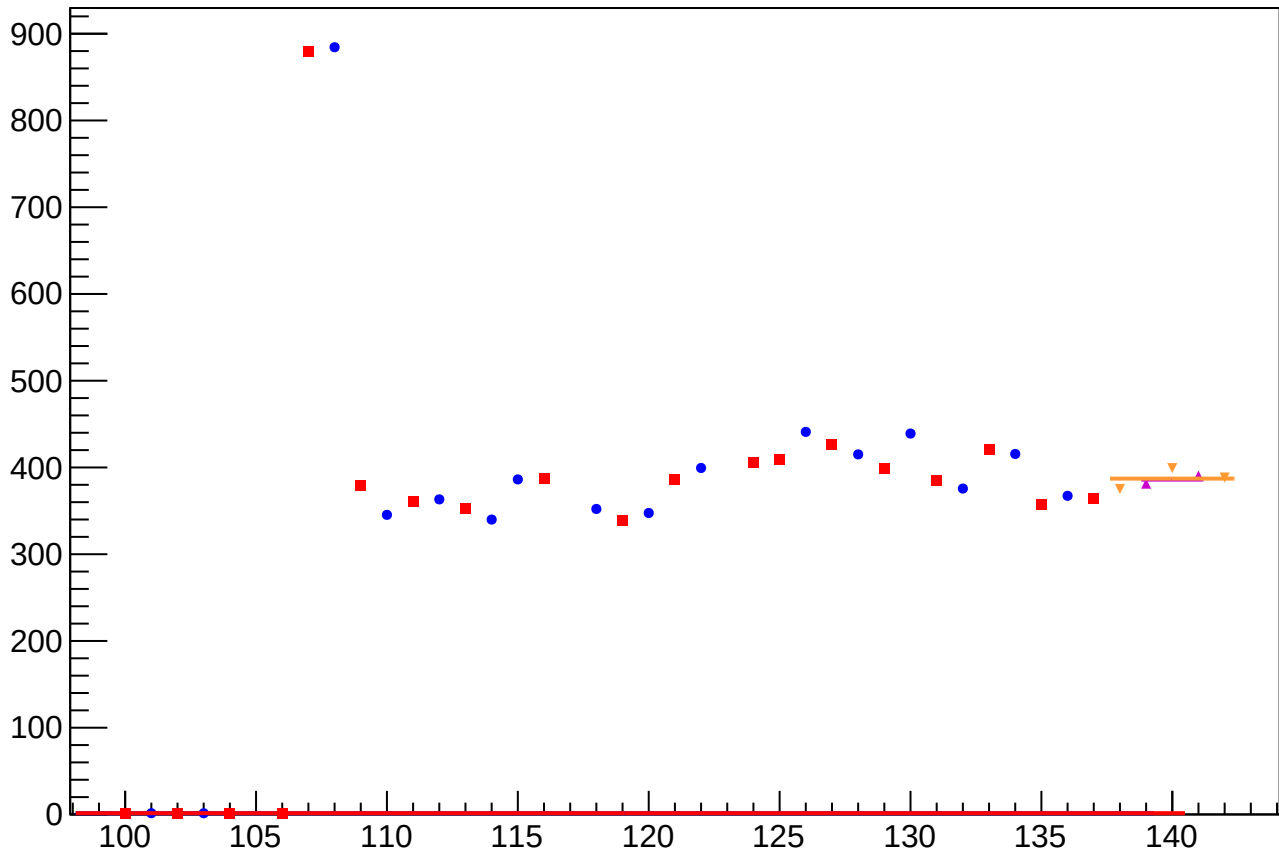
Right: 1.260 $\pm$ 1.124 χ^2 /NDF: 17.1/34

In: 1.462 $\pm$ 1.660 χ^2 /NDF:8.3/17

Out: 1.104 $\pm$ 1.528 χ^2 /NDF:13.8/21

All: 1.268 $\pm$ 1.124 χ^2 /NDF: 22.2/39

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.470 $\pm$ 0.001 χ^2 /NDF: 11735334.0/15

Left Out: 387.174 $\pm$ 0.192 χ^2 /NDF:3102.3/2

Right Out: 1.467 $\pm$ 0.001 χ^2 /NDF: 11270430.6/18

Left In: 386.012 $\pm$ 0.208 χ^2 /NDF:497.5/1

Left: 386.641 $\pm$ 0.141 χ^2 /NDF: 3616.6/4

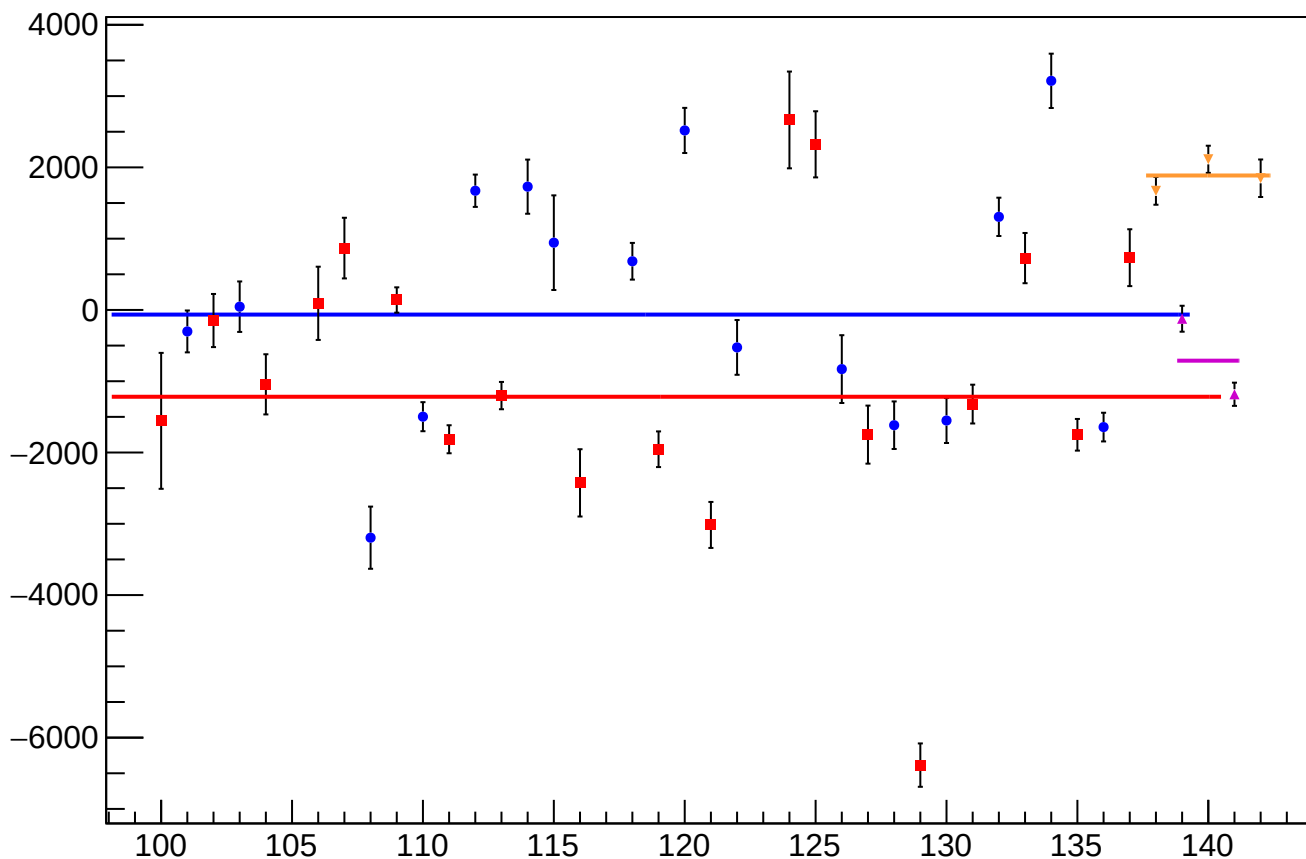
Right: 1.469 $\pm$ 0.001 χ^2 /NDF: 23005768.2/34

In: 1.482 $\pm$ 0.001 χ^2 /NDF:15149636.1/17

Out: 1.479 $\pm$ 0.001 χ^2 /NDF:15329864.5/21

All: 1.481 $\pm$ 0.001 χ^2 /NDF: 30479504.1/39

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -64.993 ± 74.895 $\chi^2/\text{NDF}: 469.5/15$

Left Out: 1886.283 ± 120.920 $\chi^2/\text{NDF}: 2.7/2$

Right Out: -1217.846 ± 69.022 $\chi^2/\text{NDF}: 594.6/18$

Left In: -711.679 ± 121.339 $\chi^2/\text{NDF}: 18.8/1$

Left: 591.794 ± 85.651 $\chi^2/\text{NDF}: 251.5/4$

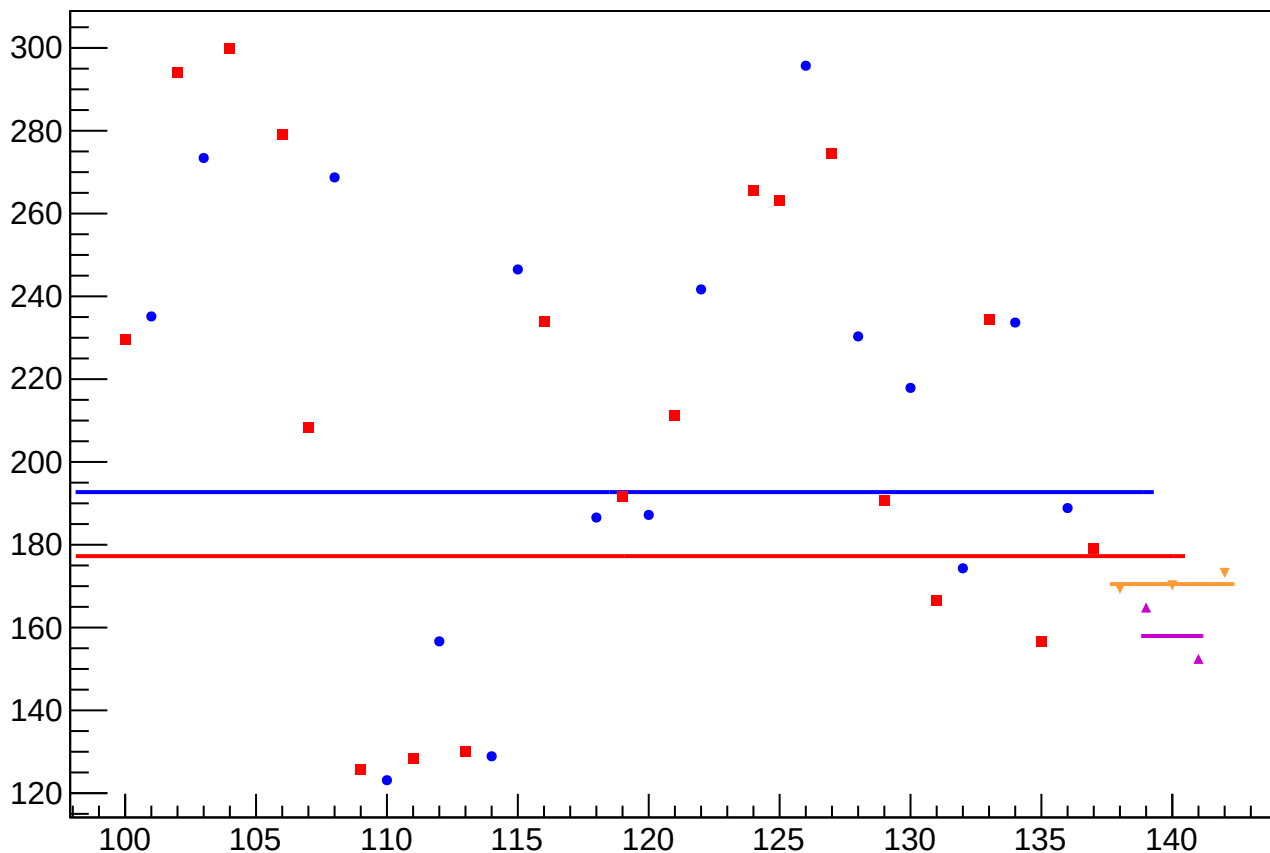
Right: -688.385 ± 50.755 $\chi^2/\text{NDF}: 1192.2/34$

In: -243.399 ± 63.732 $\chi^2/\text{NDF}: 508.9/17$

Out: -455.005 ± 59.944 $\chi^2/\text{NDF}: 1094.3/21$

All: -355.677 ± 43.665 $\chi^2/\text{NDF}: 1609.0/39$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 192.719 $\pm$ 0.053 χ^2 /NDF: 759146.3/15

Left Out: 170.503 $\pm$ 0.086 χ^2 /NDF:286.1/2

Right Out: 177.251 $\pm$ 0.049 χ^2 /NDF: 1226180.2/18

Left In: 157.960 $\pm$ 0.086 χ^2 /NDF:5155.3/1

Left: 164.254 $\pm$ 0.061 χ^2 /NDF: 16164.4/4

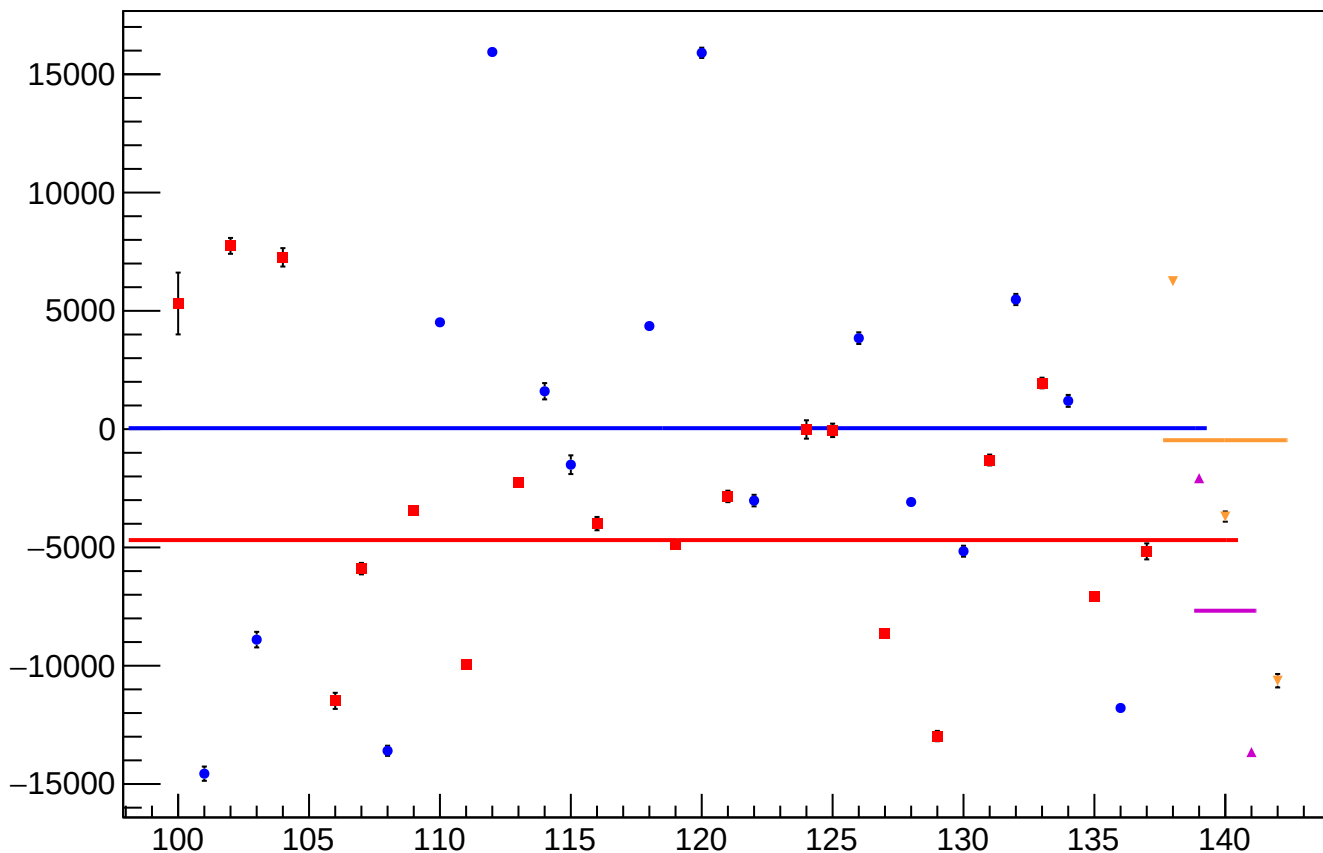
Right: 184.355 $\pm$ 0.036 χ^2 /NDF: 2031455.3/34

In: 183.130 $\pm$ 0.045 χ^2 /NDF:883144.0/17

Out: 175.593 $\pm$ 0.042 χ^2 /NDF:1231163.8/21

All: 179.131 $\pm$ 0.031 χ^2 /NDF: 2129149.0/39

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 40.915+/-54.199 χ^2/NDF : 30786.3/15

Left Out: -467.950+/-126.390 χ^2/NDF : 2803.0/2

Right Out: -4689.710+/-52.095 χ^2/NDF : 7795.7/18

Left In: -7675.269+/-135.766 χ^2/NDF : 1815.7/1

Left: -3814.170+/-92.508 χ^2/NDF : 6128.4/4

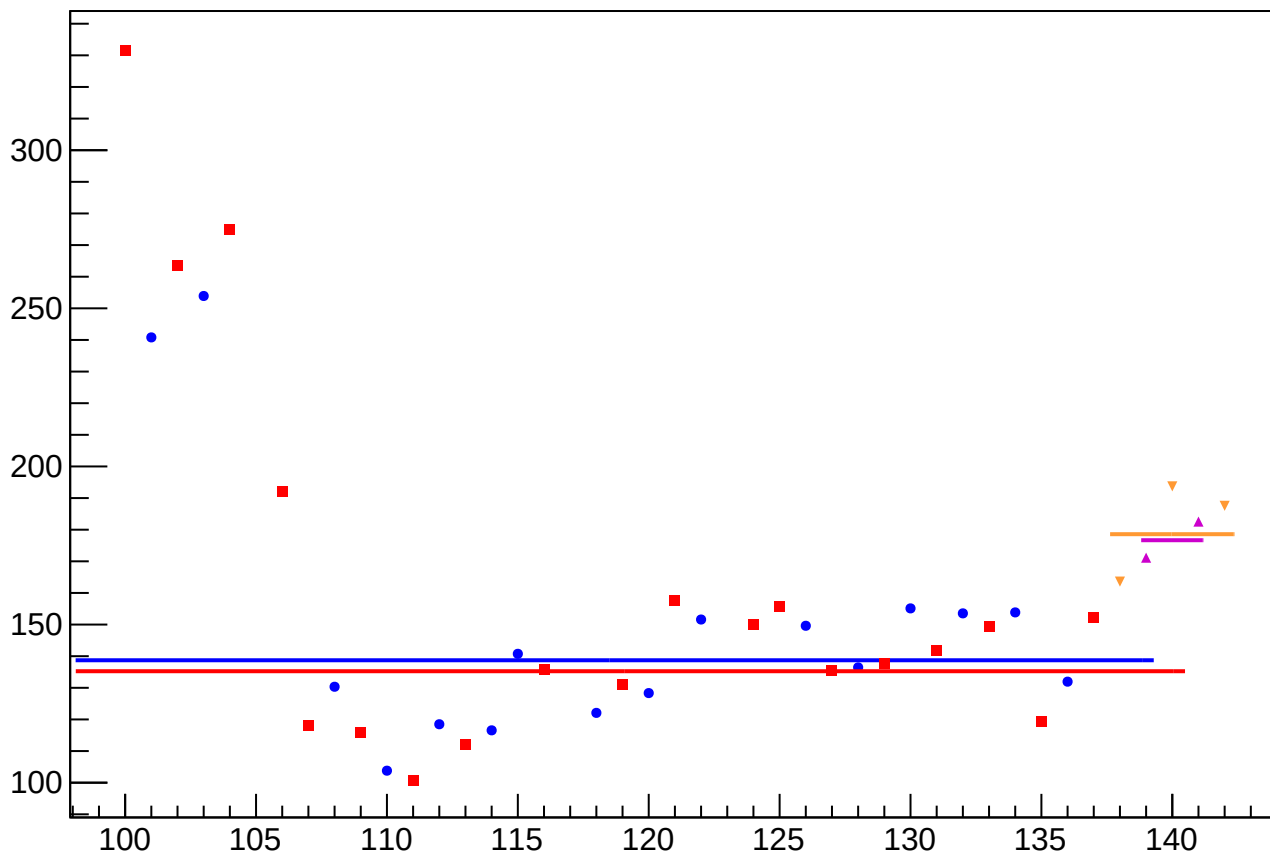
Right: -2417.983+/-37.558 χ^2/NDF : 42541.9/34

In: -1019.748+/-50.336 χ^2/NDF : 35388.1/17

Out: -4076.631+/-48.164 χ^2/NDF : 11552.4/21

All: -2615.558+/-34.800 χ^2/NDF : 48865.8/39

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 138.712 $\pm$ 0.038 χ^2/NDF : 657791.3/15

Left Out: 178.579 $\pm$ 0.089 χ^2/NDF :24749.8/2

Right Out: 135.245 $\pm$ 0.037 χ^2/NDF : 890024.8/18

Left In: 176.672 $\pm$ 0.096 χ^2/NDF :3527.2/1

Left: 177.694 $\pm$ 0.065 χ^2/NDF : 28488.4/4

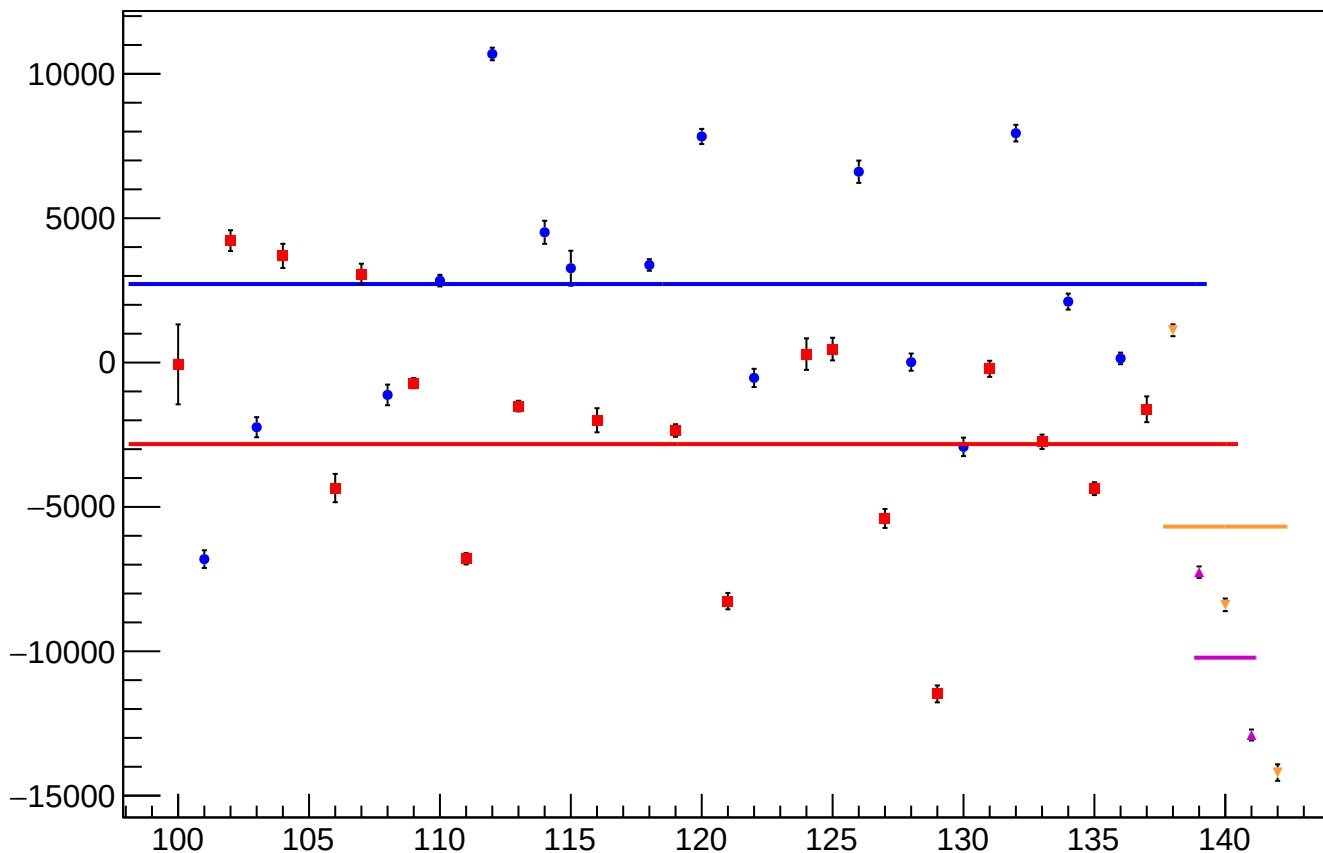
Right: 136.910 $\pm$ 0.027 χ^2/NDF : 1552069.4/34

In: 143.930 $\pm$ 0.036 χ^2/NDF :796178.7/17

Out: 141.538 $\pm$ 0.034 χ^2/NDF :1115740.1/21

All: 142.681 $\pm$ 0.025 χ^2/NDF : 1914276.2/39

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2719.896+/-69.247 χ^2/NDF : 4129.3/15

Left Out: -5681.114+/-132.562 χ^2/NDF :2138.5/2

Right Out: -2823.679+/-64.850 χ^2/NDF : 3062.8/18

Left In: -10221.655+/-137.394 χ^2/NDF :420.1/1

Left: -7870.144+/-95.398 χ^2/NDF : 3124.2/4

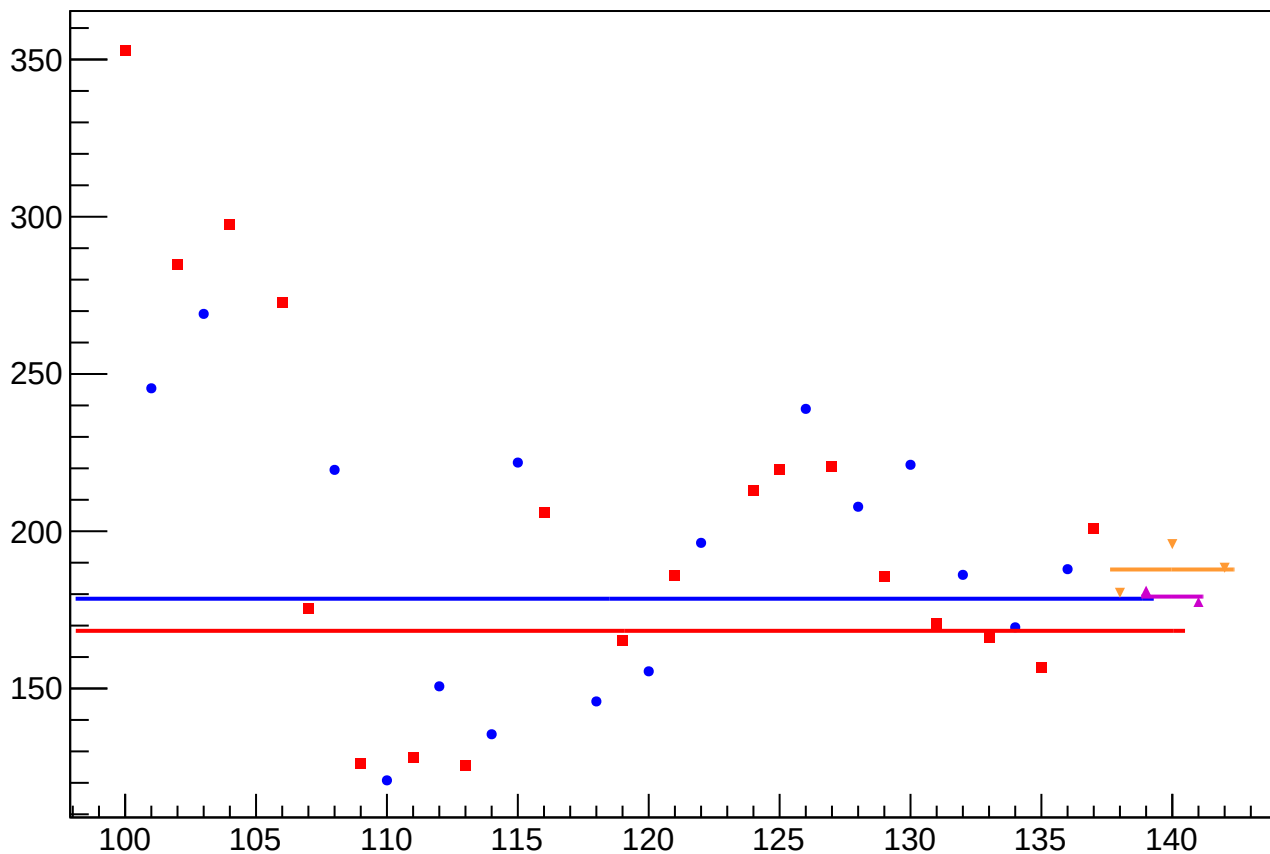
Right: -233.460+/-47.334 χ^2/NDF : 10606.3/34

In: 98.408+/-61.837 χ^2/NDF :11624.4/17

Out: -3375.469+/-58.253 χ^2/NDF :5576.2/21

All: -1742.111+/-42.402 χ^2/NDF : 18872.7/39

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.541+/-0.049 χ^2/NDF : 674566.0/15

Left Out: 187.837+/-0.094 χ^2/NDF : 5338.7/2

Right Out: 168.335+/-0.046 χ^2/NDF : 979485.9/18

Left In: 179.221+/-0.097 χ^2/NDF : 336.9/1

Left: 183.683+/-0.067 χ^2/NDF : 9749.5/4

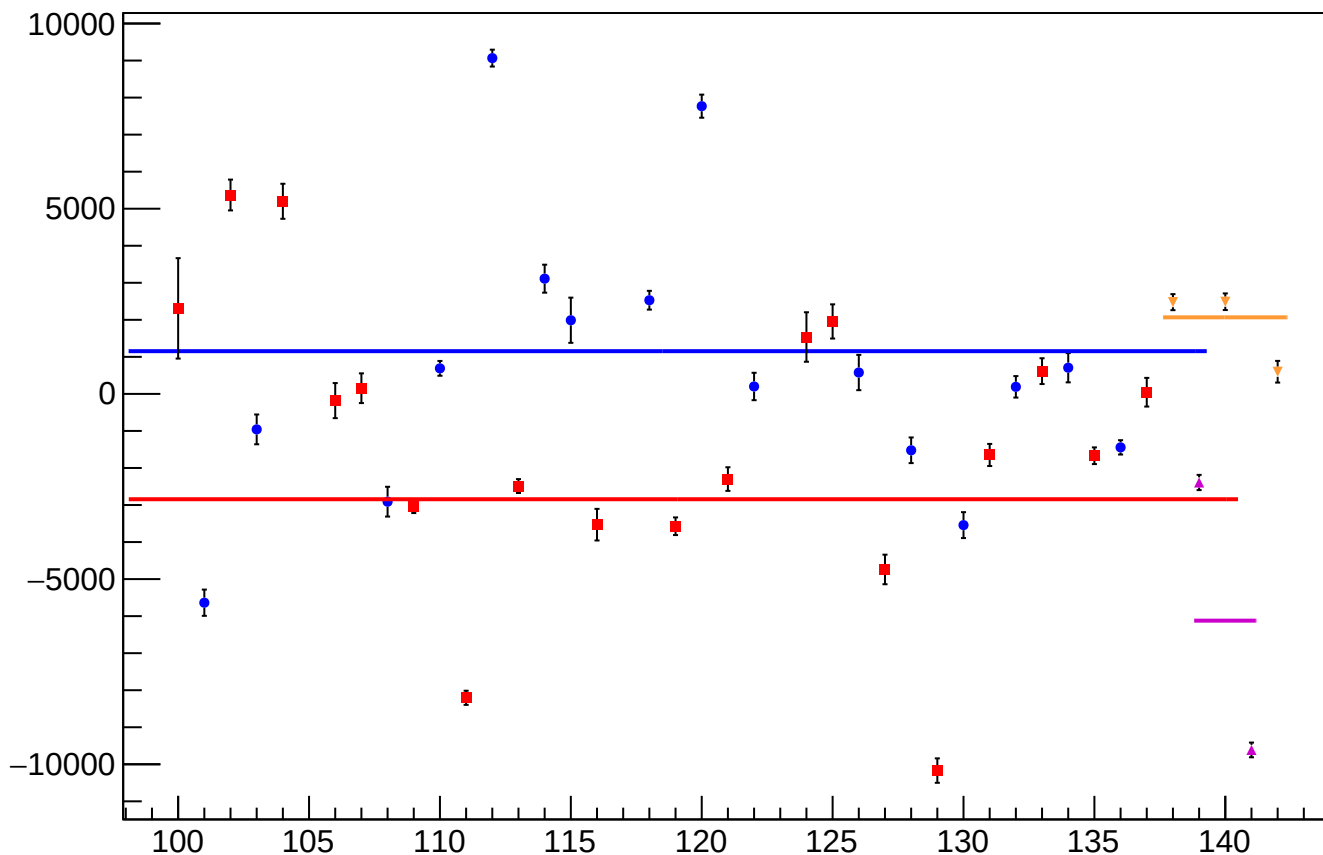
Right: 173.104+/-0.033 χ^2/NDF : 1677198.9/34

In: 178.679+/-0.044 χ^2/NDF : 674942.0/17

Out: 172.101+/-0.041 χ^2/NDF : 1019753.7/21

All: 175.194+/-0.030 χ^2/NDF : 1706686.2/39

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1153.823+/-75.957 χ^2/NDF : 2655.3/15

Left Out: 2067.370+/-137.548 χ^2/NDF :32.3/2

Right Out: -2843.895+/-69.139 χ^2/NDF : 2453.1/18

Left In: -6121.840+/-142.841 χ^2/NDF :638.2/1

Left: -1872.703+/-99.079 χ^2/NDF : 2375.9/4

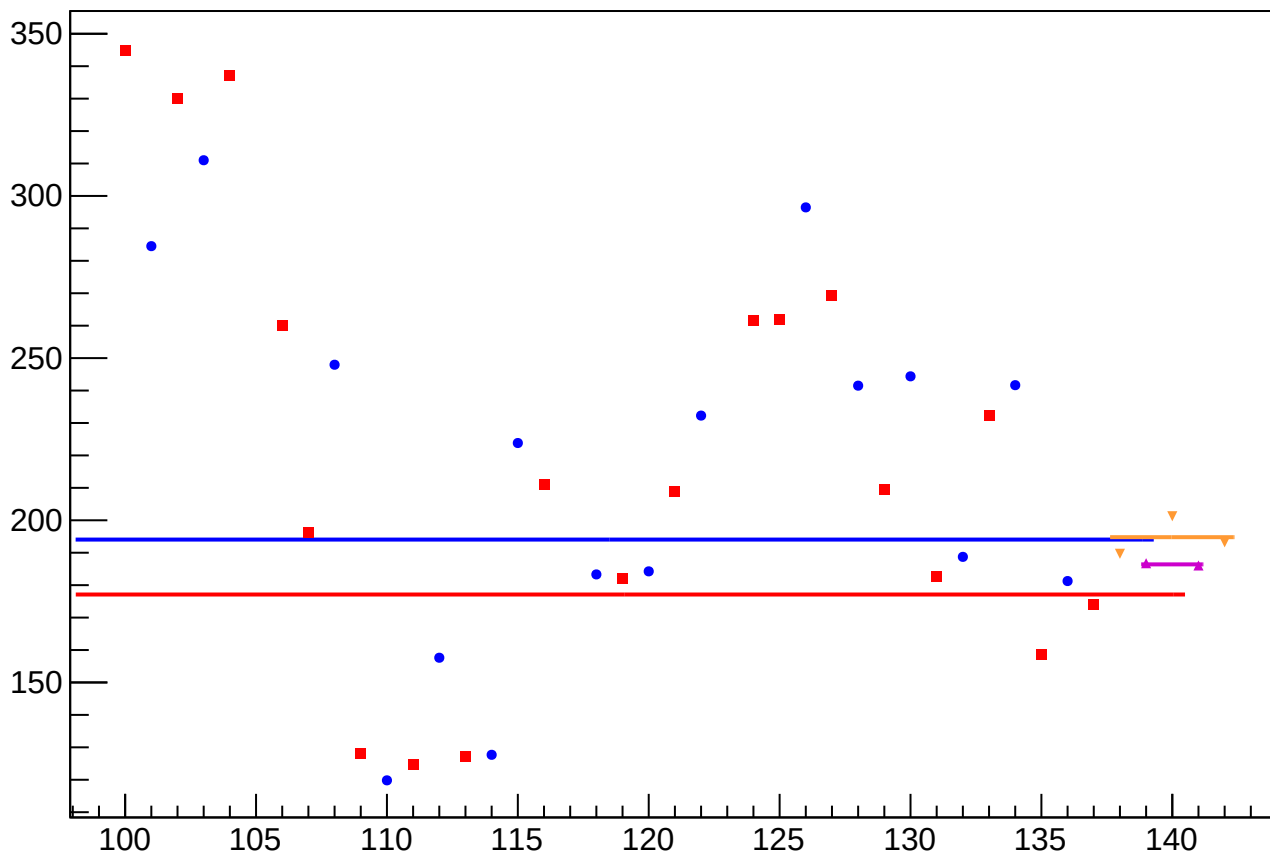
Right: -1032.468+/-51.129 χ^2/NDF : 6623.4/34

In: -449.992+/-67.064 χ^2/NDF :5316.0/17

Out: -1853.294+/-61.774 χ^2/NDF :3503.2/21

All: -1209.169+/-45.436 χ^2/NDF : 9056.1/39

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.053+/-0.054 χ^2/NDF : 965786.1/15

Left Out: 194.791+/-0.097 χ^2/NDF : 2828.8/2

Right Out: 177.115+/-0.049 χ^2/NDF : 1359345.8/18

Left In: 186.407+/-0.101 χ^2/NDF : 11.7/1

Left: 190.758+/-0.070 χ^2/NDF : 6416.0/4

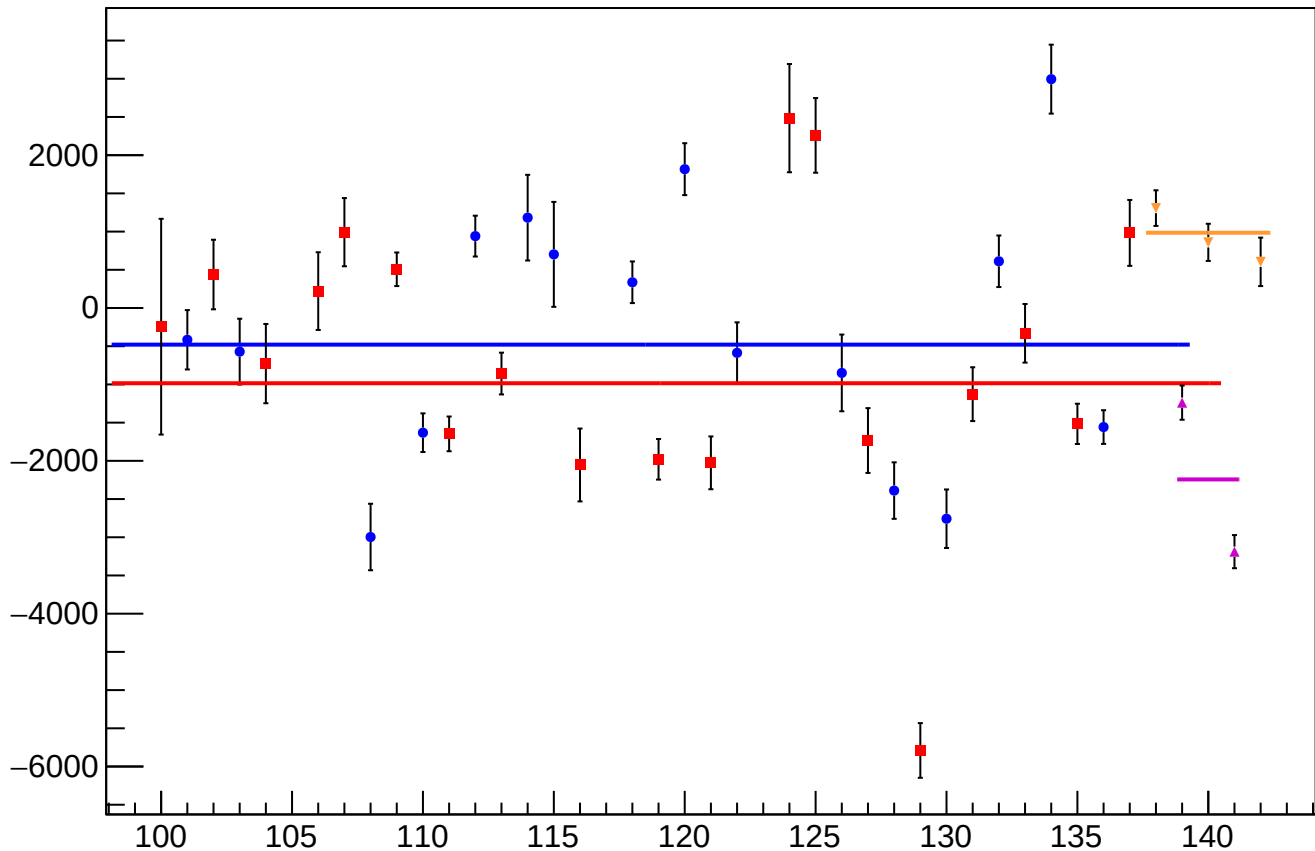
Right: 184.790+/-0.036 χ^2/NDF : 2379520.9/34

In: 192.368+/-0.047 χ^2/NDF : 970264.9/17

Out: 180.680+/-0.044 χ^2/NDF : 1388542.8/21

All: 186.045+/-0.032 χ^2/NDF : 2391666.6/39

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -479.302 ± 86.685 χ^2/NDF : 305.4/15

Left Out: 985.291 ± 148.643 χ^2/NDF : 3.6/2

Right Out: -984.498 ± 80.945 χ^2/NDF : 398.1/18

Left In: -2243.328 ± 155.681 χ^2/NDF : 39.2/1

Left: -554.393 ± 107.509 χ^2/NDF : 267.8/4

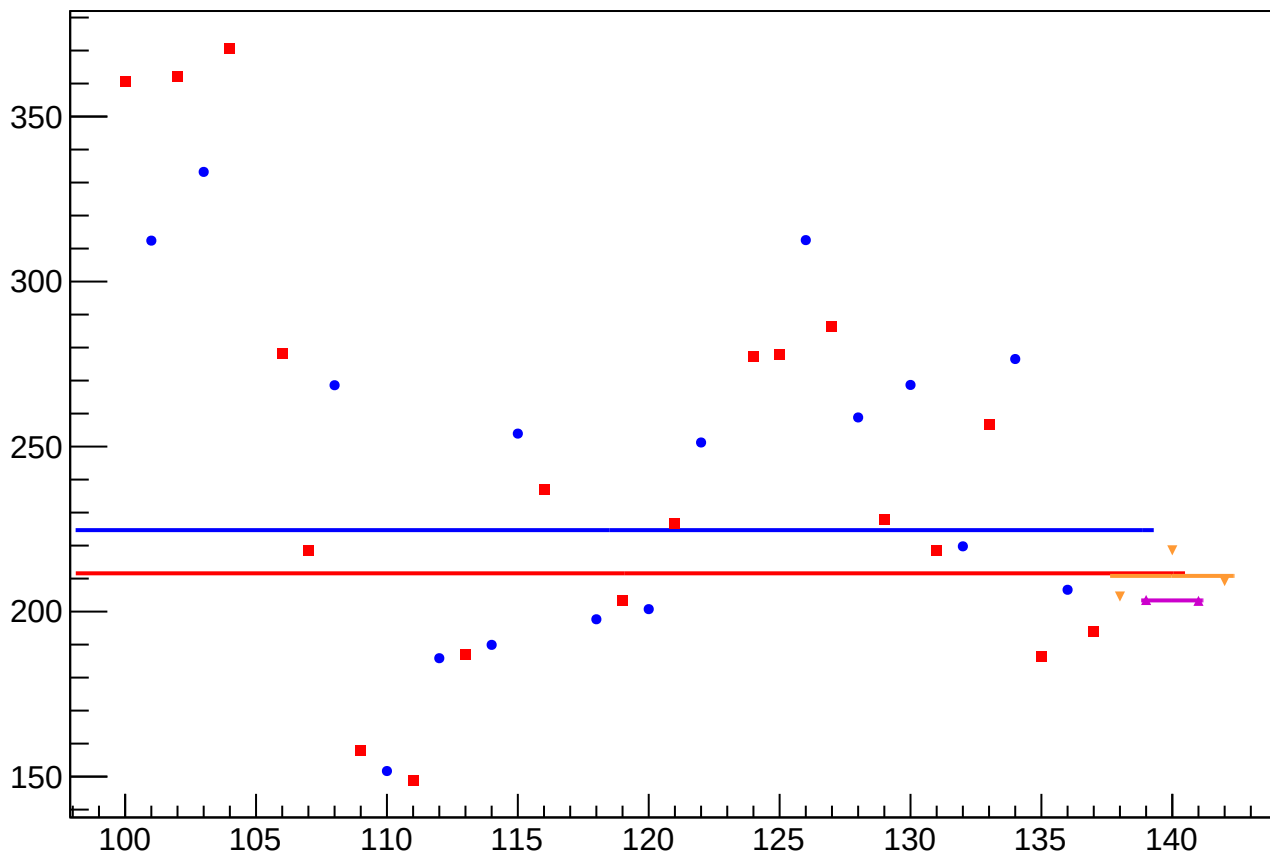
Right: -749.177 ± 59.162 χ^2/NDF : 721.7/34

In: -896.783 ± 75.736 χ^2/NDF : 442.6/17

Out: -533.966 ± 71.088 χ^2/NDF : 537.2/21

All: -703.901 ± 51.832 χ^2/NDF : 992.0/39

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 224.683+/-0.061 χ^2/NDF : 653193.4/15

Left Out: 210.816+/-0.105 χ^2/NDF :3515.4/2

Right Out: 211.595+/-0.057 χ^2/NDF : 932902.5/18

Left In: 203.386+/-0.110 χ^2/NDF :1.4/1

Left: 207.272+/-0.076 χ^2/NDF : 5899.8/4

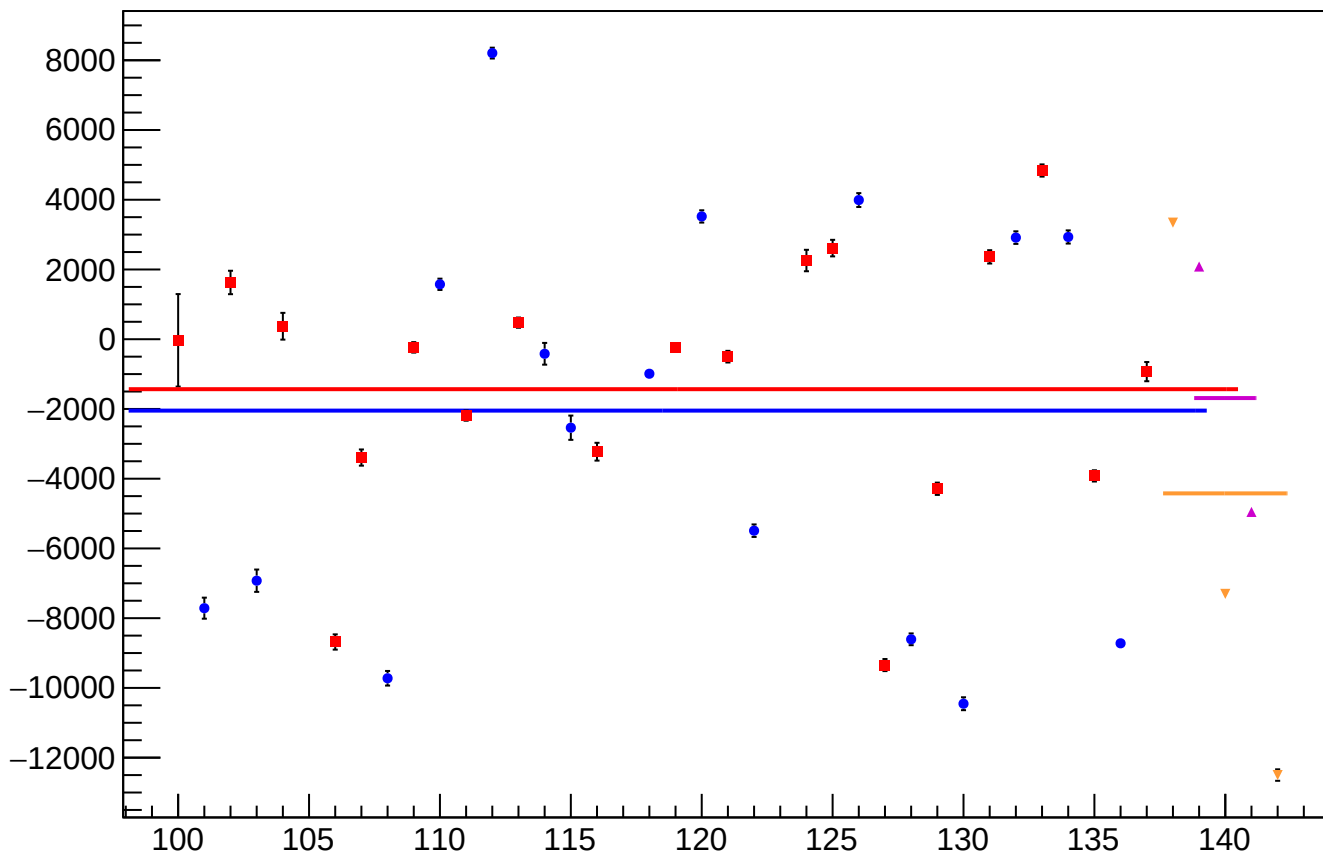
Right: 217.691+/-0.042 χ^2/NDF : 1610450.2/34

In: 219.642+/-0.054 χ^2/NDF :681764.9/17

Out: 211.417+/-0.050 χ^2/NDF :936460.3/21

All: 215.269+/-0.037 χ^2/NDF : 1630767.6/39

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2047.267 ± 46.722 $\chi^2/\text{NDF}: 16709.1/15$

Left Out: -4421.226 ± 78.910 $\chi^2/\text{NDF}: 6631.2/2$

Right Out: -1432.909 ± 44.729 $\chi^2/\text{NDF}: 6387.8/18$

Left In: -1687.601 ± 86.208 $\chi^2/\text{NDF}: 1657.2/1$

Left: -3175.001 ± 58.207 $\chi^2/\text{NDF}: 8835.5/4$

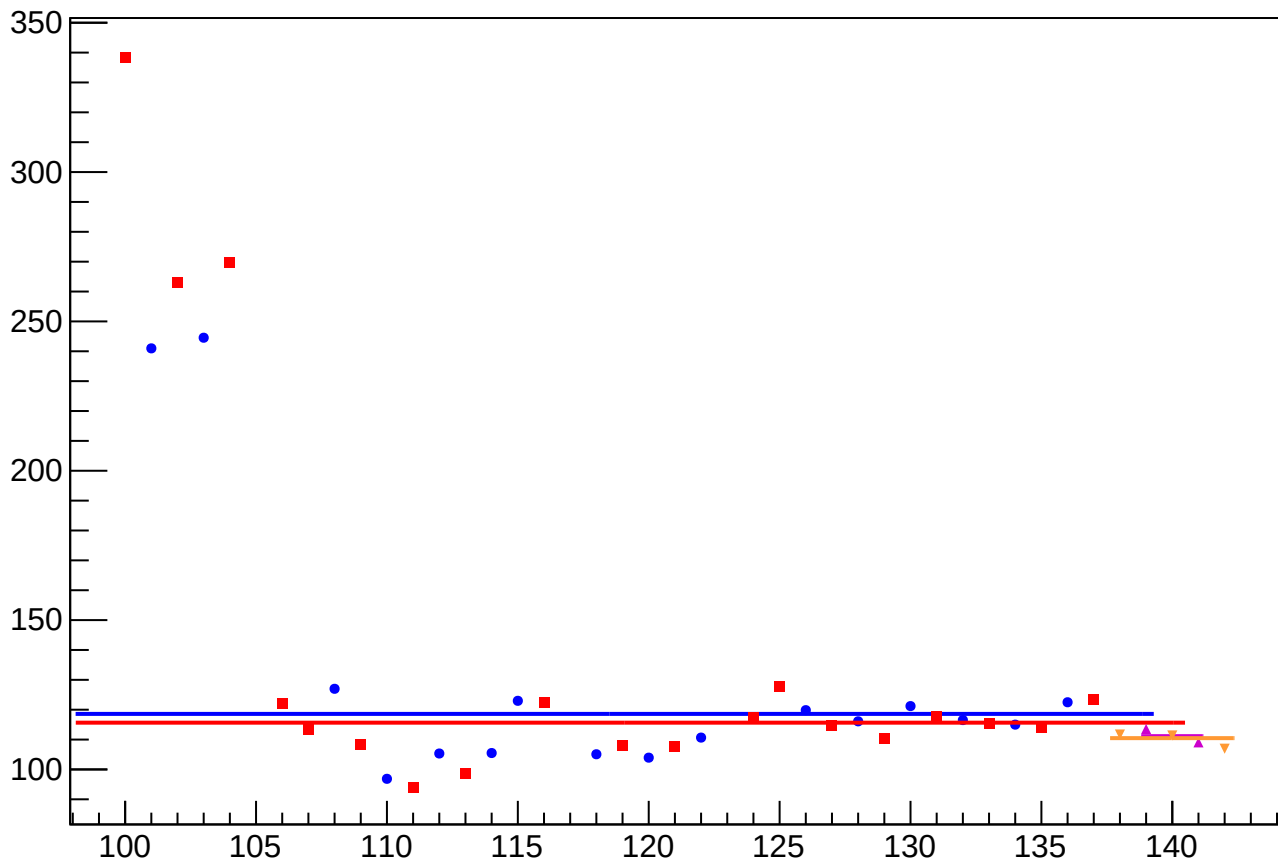
Right: -1726.707 ± 32.310 $\chi^2/\text{NDF}: 23187.1/34$

In: -1965.608 ± 41.077 $\chi^2/\text{NDF}: 18379.8/17$

Out: -2159.588 ± 38.912 $\chi^2/\text{NDF}: 14104.4/21$

All: -2067.843 ± 28.249 $\chi^2/\text{NDF}: 32495.9/39$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 118.596 $\pm$ 0.033 χ^2/NDF : 734158.7/15

Left Out: 110.481 $\pm$ 0.056 χ^2/NDF : 1207.3/2

Right Out: 115.660 $\pm$ 0.032 χ^2/NDF : 864206.3/18

Left In: 111.146 $\pm$ 0.061 χ^2/NDF : 1344.8/1

Left: 110.784 $\pm$ 0.041 χ^2/NDF : 2616.8/4

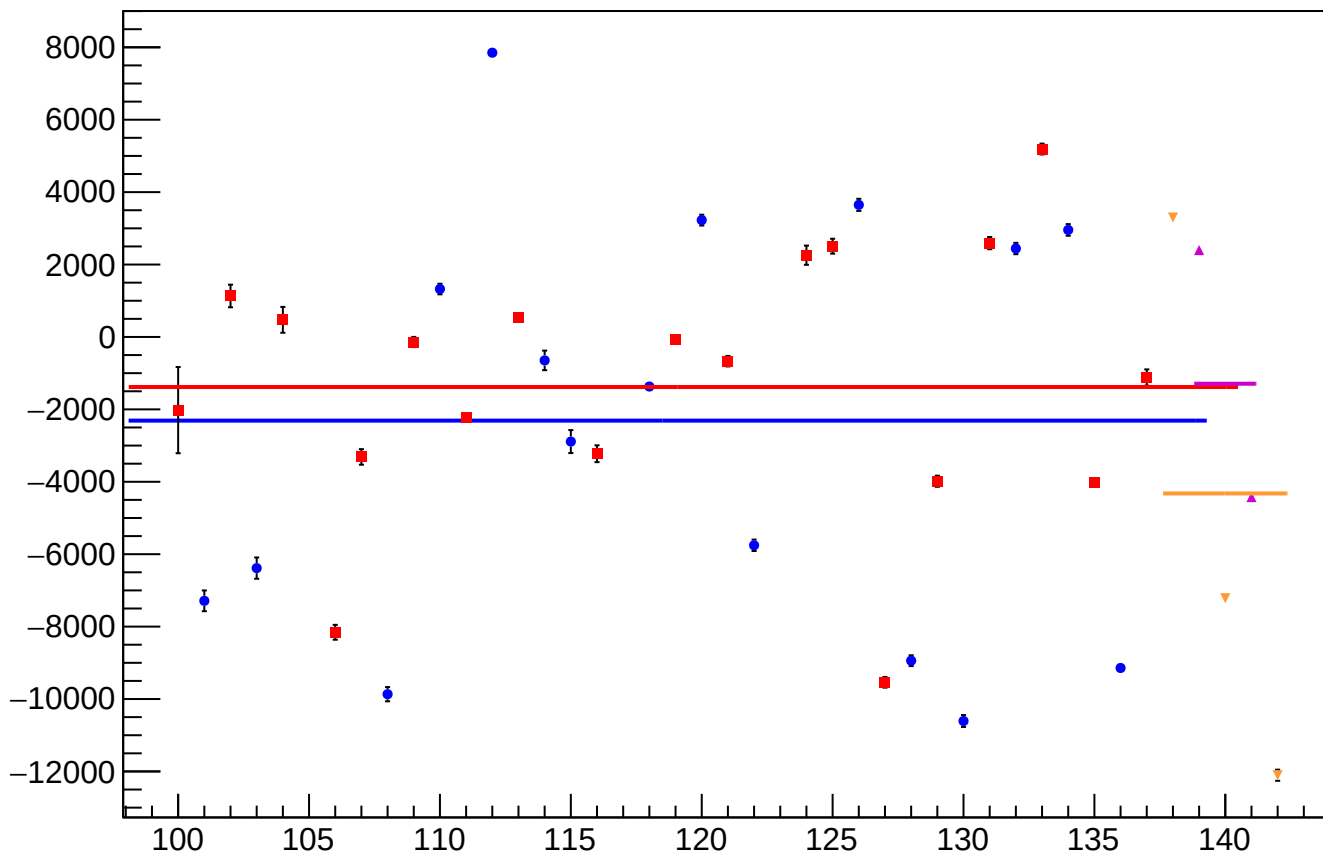
Right: 117.064 $\pm$ 0.023 χ^2/NDF : 1602486.6/34

In: 116.904 $\pm$ 0.029 χ^2/NDF : 747049.3/17

Out: 114.400 $\pm$ 0.028 χ^2/NDF : 871933.5/21

All: 115.585 $\pm$ 0.020 χ^2/NDF : 1622900.1/39

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2310.581 ± 40.734 $\chi^2/\text{NDF}: 21679.5/15$

Left Out: -4321.922 ± 71.808 $\chi^2/\text{NDF}: 7459.9/2$

Right Out: -1382.178 ± 39.342 $\chi^2/\text{NDF}: 8578.9/18$

Left In: -1291.619 ± 76.749 $\chi^2/\text{NDF}: 1961.8/1$

Left: -2907.446 ± 52.436 $\chi^2/\text{NDF}: 10253.0/4$

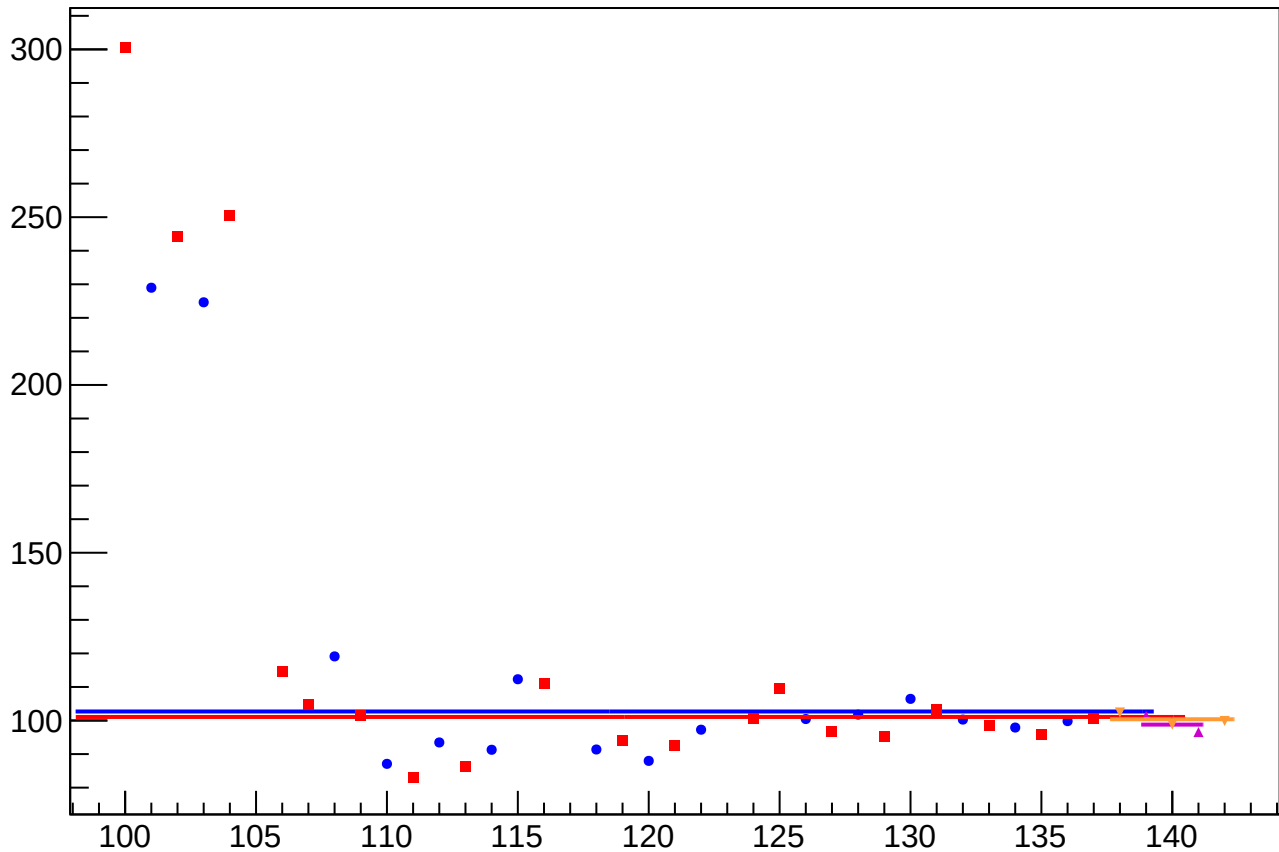
Right: -1830.238 ± 28.298 $\chi^2/\text{NDF}: 30527.1/34$

In: -2086.633 ± 35.981 $\chi^2/\text{NDF}: 23778.8/17$

Out: -2060.864 ± 34.503 $\chi^2/\text{NDF}: 17327.8/21$

All: -2073.208 ± 24.903 $\chi^2/\text{NDF}: 41106.9/39$

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 102.694+/-0.029 χ^2/NDF : 825801.5/15

Left Out: 100.379+/-0.051 χ^2/NDF :1013.7/2

Right Out: 101.063+/-0.028 χ^2/NDF : 930458.1/18

Left In: 98.784+/-0.054 χ^2/NDF :1957.3/1

Left: 99.634+/-0.037 χ^2/NDF : 3431.4/4

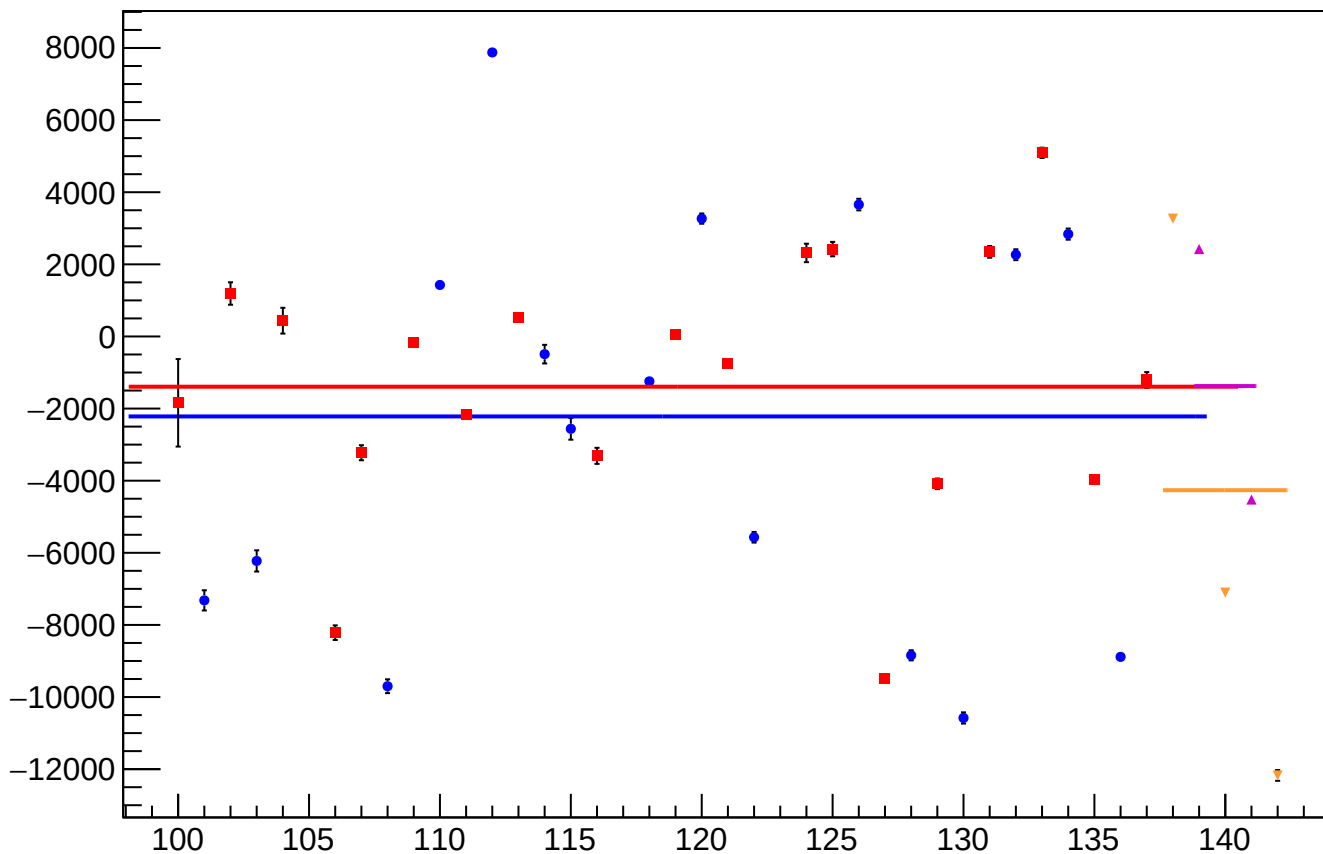
Right: 101.850+/-0.020 χ^2/NDF : 1757917.4/34

In: 101.834+/-0.025 χ^2/NDF :831808.2/17

Out: 100.905+/-0.024 χ^2/NDF :931611.5/21

All: 101.350+/-0.018 χ^2/NDF : 1764114.6/39

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2218.049+/-39.039 χ^2/NDF : 23040.7/15

Left Out: -4263.723+/-69.343 χ^2/NDF : 7956.9/2

Right Out: -1393.557+/-37.580 χ^2/NDF : 9152.1/18

Left In: -1376.193+/-74.026 χ^2/NDF : 2182.5/1

Left: -2914.186+/-50.607 χ^2/NDF : 10949.8/4

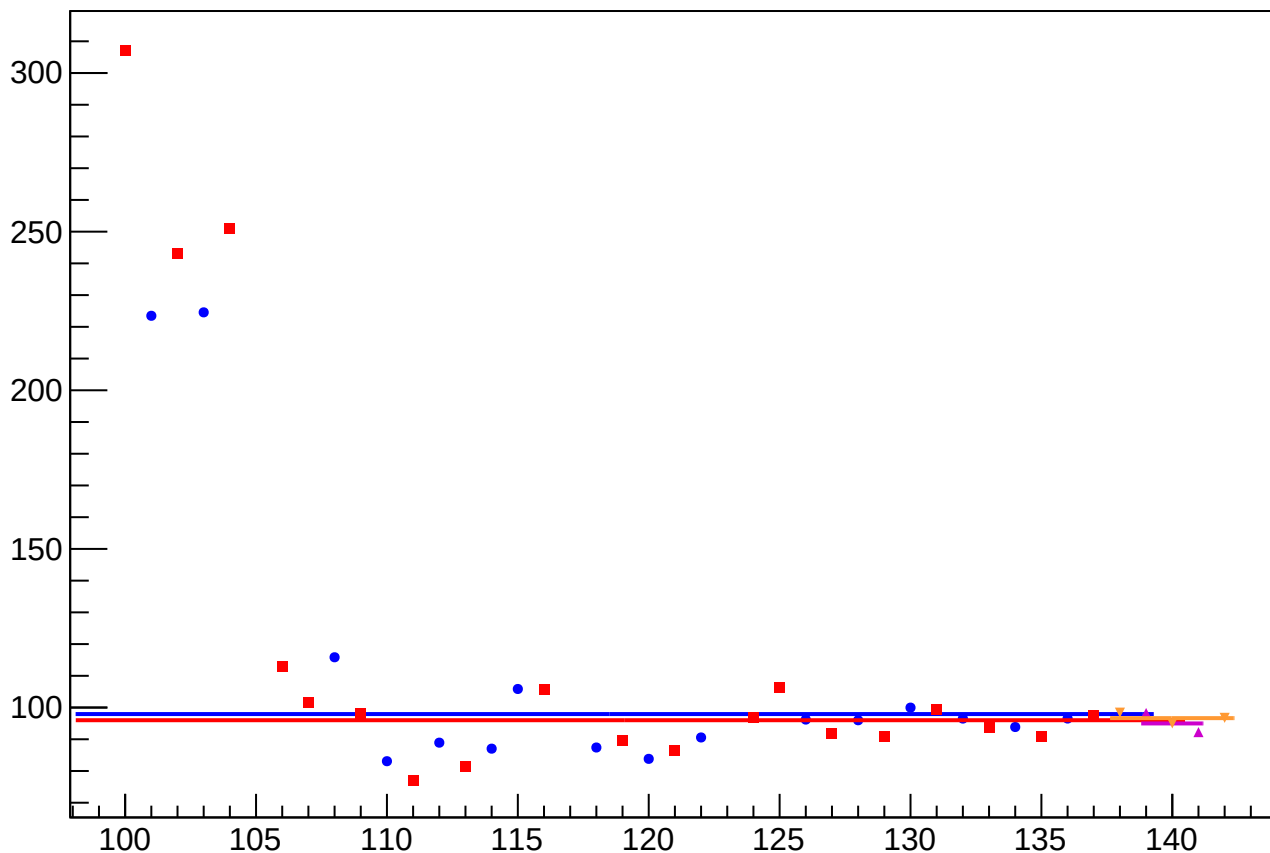
Right: -1790.108+/-27.074 χ^2/NDF : 32424.3/34

In: -2034.864+/-34.531 χ^2/NDF : 25324.4/17

Out: -2045.154+/-33.040 χ^2/NDF : 18433.3/21

All: -2040.236+/-23.872 χ^2/NDF : 43757.7/39

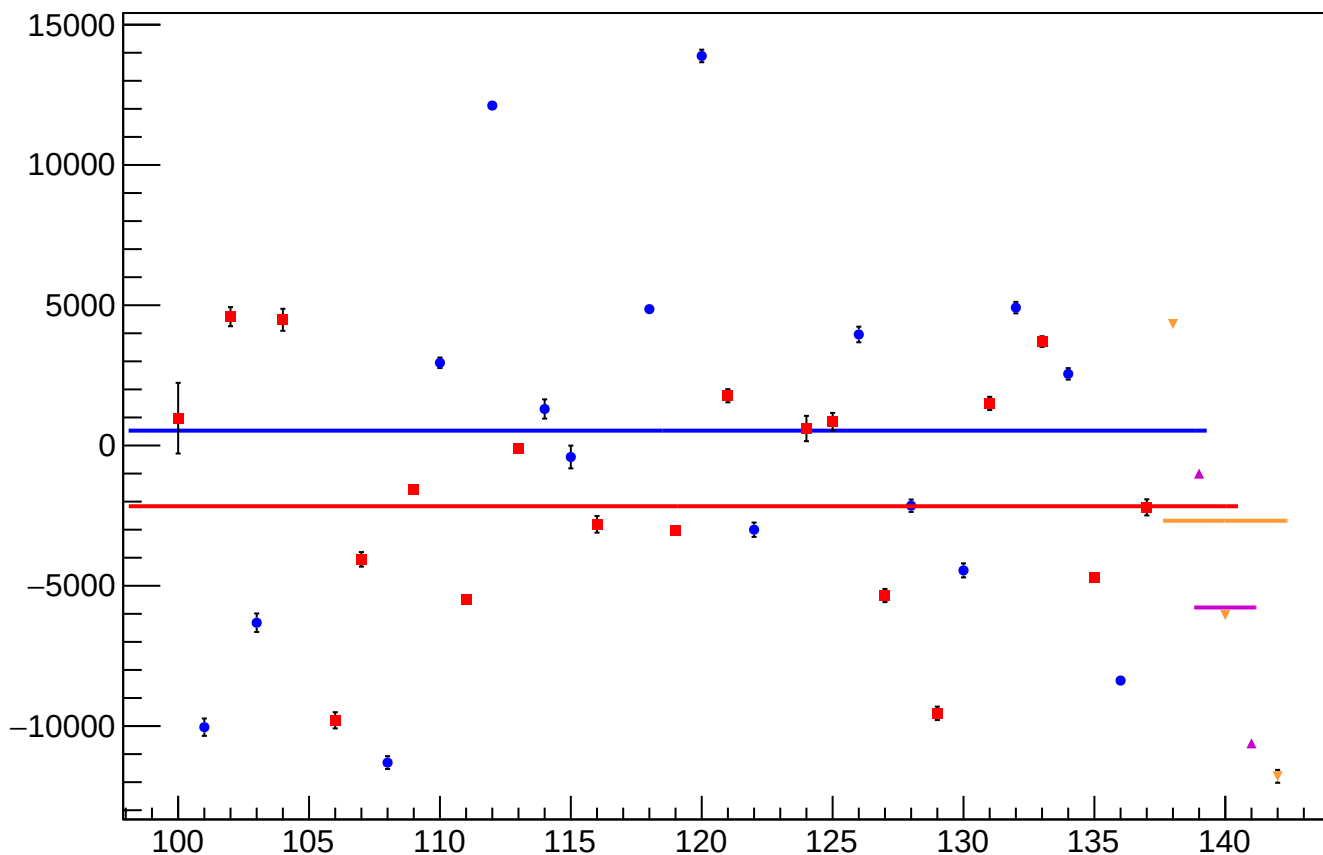
asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 97.944 $\pm$ 0.028 χ^2 /NDF: 868148.4/15
 Left Out: 96.660 $\pm$ 0.049 χ^2 /NDF:937.0/2
 Right Out: 96.005 $\pm$ 0.027 χ^2 /NDF: 1012287.0/18
 Left In: 94.987 $\pm$ 0.052 χ^2 /NDF:3286.7/1

Left: 95.878 $\pm$ 0.036 χ^2 /NDF: 4767.8/4
 Right: 96.937 $\pm$ 0.019 χ^2 /NDF: 1882996.0/34
 In: 97.300 $\pm$ 0.024 χ^2 /NDF:873931.4/17
 Out: 96.154 $\pm$ 0.023 χ^2 /NDF:1013362.0/21
 All: 96.702 $\pm$ 0.017 χ^2 /NDF: 1888445.0/39

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 530.568 ± 54.855 $\chi^2/\text{NDF}: 18587.6/15$

Left Out: -2681.671 ± 102.843 $\chi^2/\text{NDF}: 3980.3/2$

Right Out: -2164.994 ± 53.458 $\chi^2/\text{NDF}: 4967.1/18$

Left In: -5773.827 ± 112.308 $\chi^2/\text{NDF}: 1832.4/1$

Left: -4091.976 ± 75.847 $\chi^2/\text{NDF}: 6225.1/4$

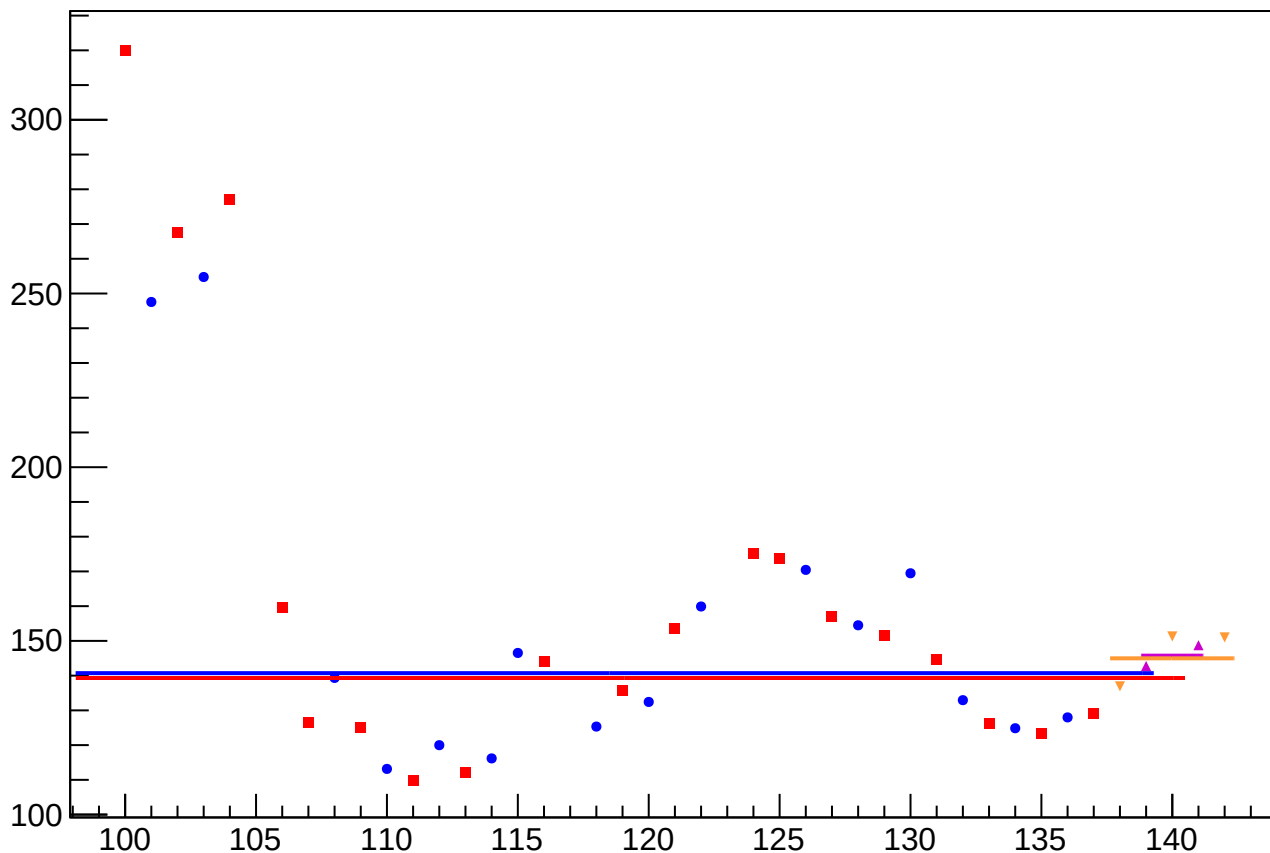
Right: -851.965 ± 38.285 $\chi^2/\text{NDF}: 24793.2/34$

In: -683.749 ± 49.290 $\chi^2/\text{NDF}: 22964.2/17$

Out: -2274.902 ± 47.433 $\chi^2/\text{NDF}: 8967.3/21$

All: -1509.860 ± 34.178 $\chi^2/\text{NDF}: 32472.6/39$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 140.715 $\pm$ 0.039 χ^2 /NDF: 675618.7/15

Left Out: 144.983 $\pm$ 0.073 χ^2 /NDF:9465.2/2

Right Out: 139.317 $\pm$ 0.038 χ^2 /NDF: 802317.0/18

Left In: 145.749 $\pm$ 0.079 χ^2 /NDF:1419.2/1

Left: 145.333 $\pm$ 0.054 χ^2 /NDF: 10935.1/4

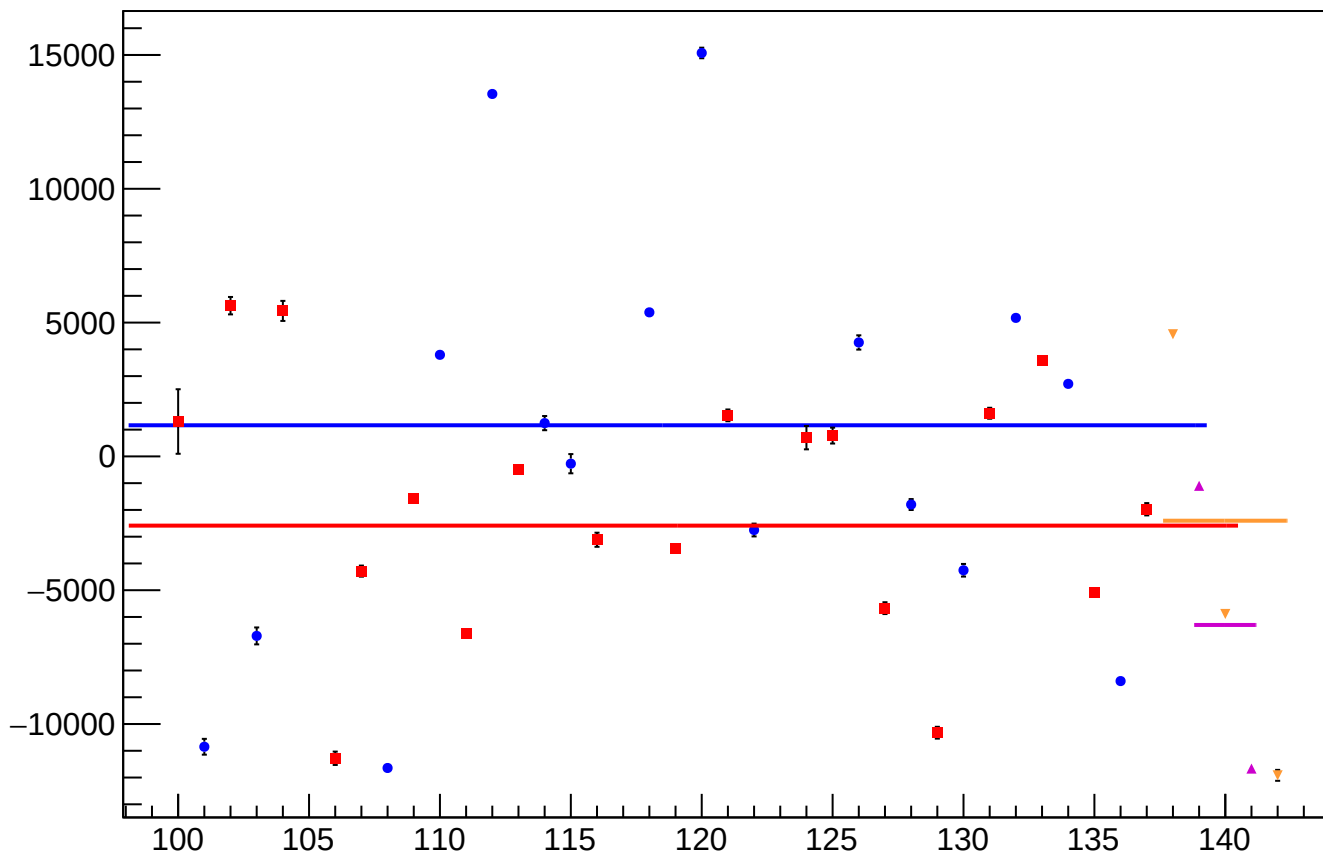
Right: 139.998 $\pm$ 0.027 χ^2 /NDF: 1478602.2/34

In: 141.685 $\pm$ 0.035 χ^2 /NDF:680282.3/17

Out: 140.522 $\pm$ 0.034 χ^2 /NDF:816561.8/21

All: 141.081 $\pm$ 0.024 χ^2 /NDF: 1497421.8/39

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1162.980+/-45.930 χ^2/NDF : 30754.3/15

Left Out: -2403.043+/-89.657 χ^2/NDF :5406.8/2

Right Out: -2586.755+/-44.256 χ^2/NDF : 8099.7/18

Left In: -6298.621+/-97.059 χ^2/NDF :2961.9/1

Left: -4196.638+/-65.859 χ^2/NDF : 9237.9/4

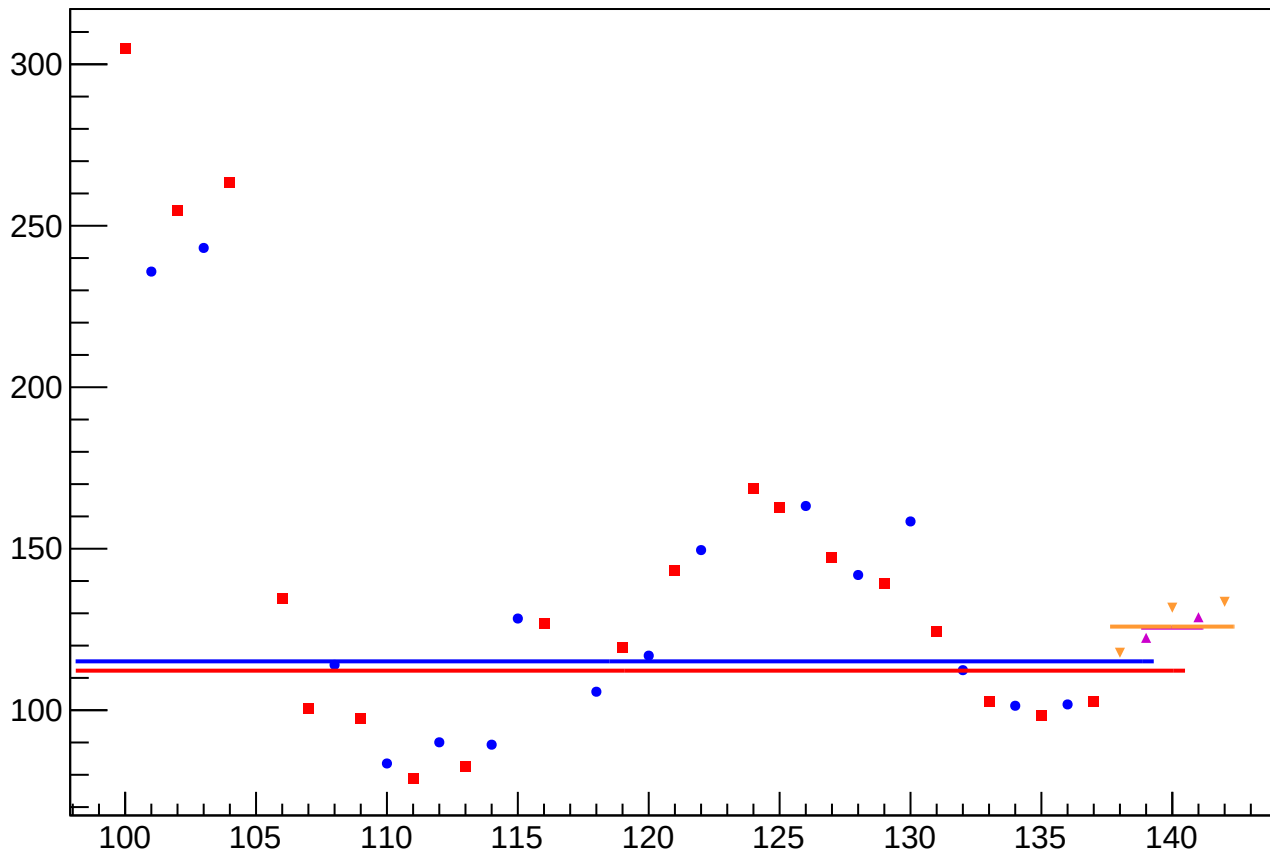
Right: -781.454+/-31.869 χ^2/NDF : 42310.2/34

In: -202.218+/-41.516 χ^2/NDF :38545.0/17

Out: -2550.762+/-39.685 χ^2/NDF :13509.8/21

All: -1429.432+/-28.687 χ^2/NDF : 53727.0/39

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 115.125+/-0.032 χ^2/NDF : 1112987.2/15

Left Out: 125.885+/-0.063 χ^2/NDF :13171.5/2

Right Out: 112.241+/-0.031 χ^2/NDF : 1328156.6/18

Left In: 125.548+/-0.069 χ^2/NDF :2158.8/1

Left: 125.730+/-0.047 χ^2/NDF : 15343.3/4

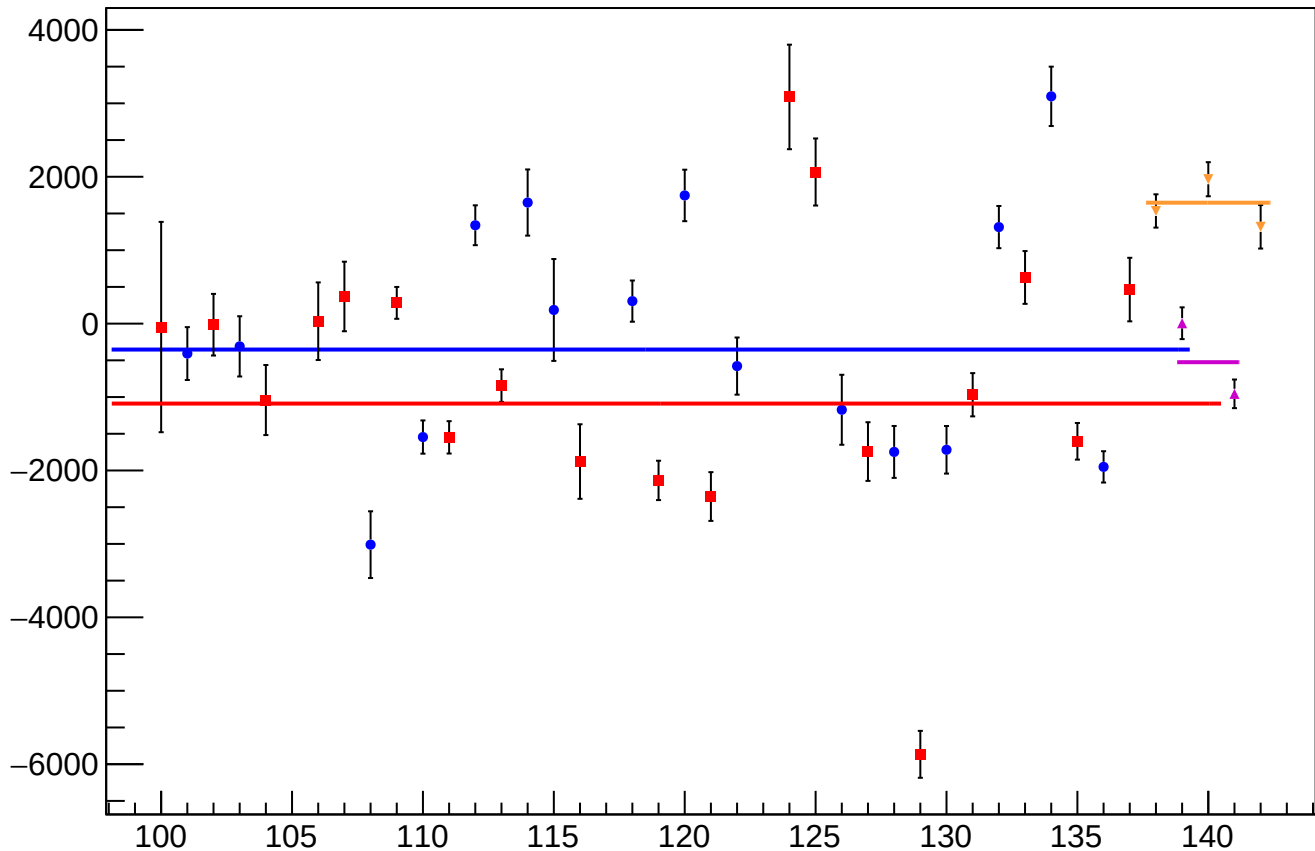
Right: 113.630+/-0.023 χ^2/NDF : 2445233.6/34

In: 117.032+/-0.029 χ^2/NDF :1133989.4/17

Out: 114.914+/-0.028 χ^2/NDF :1378571.0/21

All: 115.926+/-0.020 χ^2/NDF : 2515280.5/39

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -353.129 ± 82.136 $\chi^2/\text{NDF}: 361.8/15$

Left Out: 1646.862 ± 142.269 $\chi^2/\text{NDF}: 3.4/2$

Right Out: -1088.752 ± 76.444 $\chi^2/\text{NDF}: 447.2/18$

Left In: -525.246 ± 144.858 $\chi^2/\text{NDF}: 10.9/1$

Left: 580.393 ± 101.502 $\chi^2/\text{NDF}: 128.7/4$

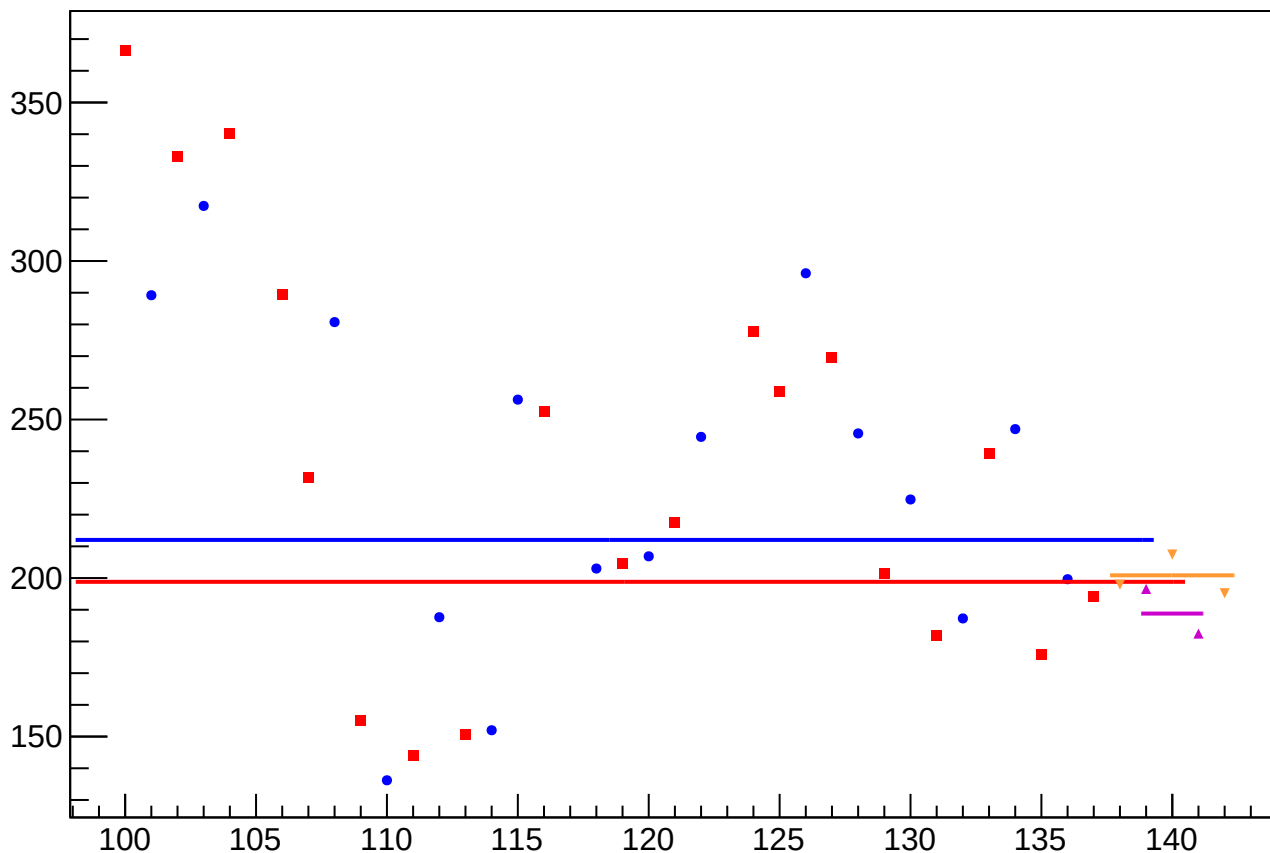
Right: -747.310 ± 55.958 $\chi^2/\text{NDF}: 852.0/34$

In: -395.002 ± 71.449 $\chi^2/\text{NDF}: 373.8/17$

Out: -475.890 ± 67.339 $\chi^2/\text{NDF}: 737.4/21$

All: -437.840 ± 49.004 $\chi^2/\text{NDF}: 1111.9/39$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 212.027 $\pm$ 0.058 χ^2 /NDF: 690358.0/15

Left Out: 200.858 $\pm$ 0.101 χ^2 /NDF:2657.4/2

Right Out: 198.809 $\pm$ 0.054 χ^2 /NDF: 974928.4/18

Left In: 188.797 $\pm$ 0.102 χ^2 /NDF:4672.8/1

Left: 194.936 $\pm$ 0.072 χ^2 /NDF: 14387.7/4

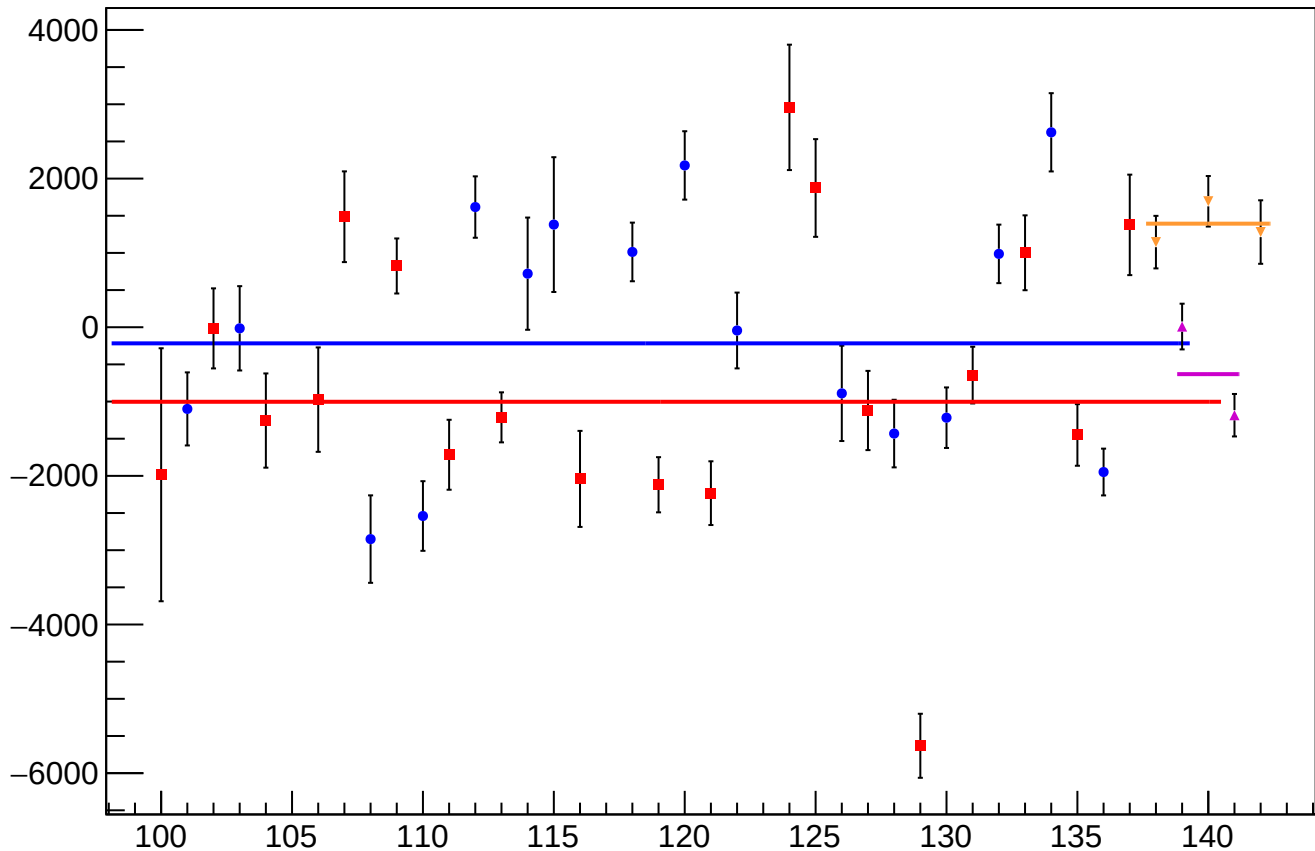
Right: 204.945 $\pm$ 0.040 χ^2 /NDF: 1693041.6/34

In: 206.376 $\pm$ 0.051 χ^2 /NDF:733953.9/17

Out: 199.268 $\pm$ 0.048 χ^2 /NDF:977907.6/21

All: 202.612 $\pm$ 0.035 χ^2 /NDF: 1722342.7/39

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -216.948 ± 117.887 $\chi^2/\text{NDF}: 192.2/15$

Left Out: 1393.589 ± 212.554 $\chi^2/\text{NDF}: 1.3/2$

Right Out: -1003.049 ± 113.111 $\chi^2/\text{NDF}: 254.3/18$

Left In: -631.145 ± 209.352 $\chi^2/\text{NDF}: 8.1/1$

Left: 365.855 ± 149.154 $\chi^2/\text{NDF}: 55.5/4$

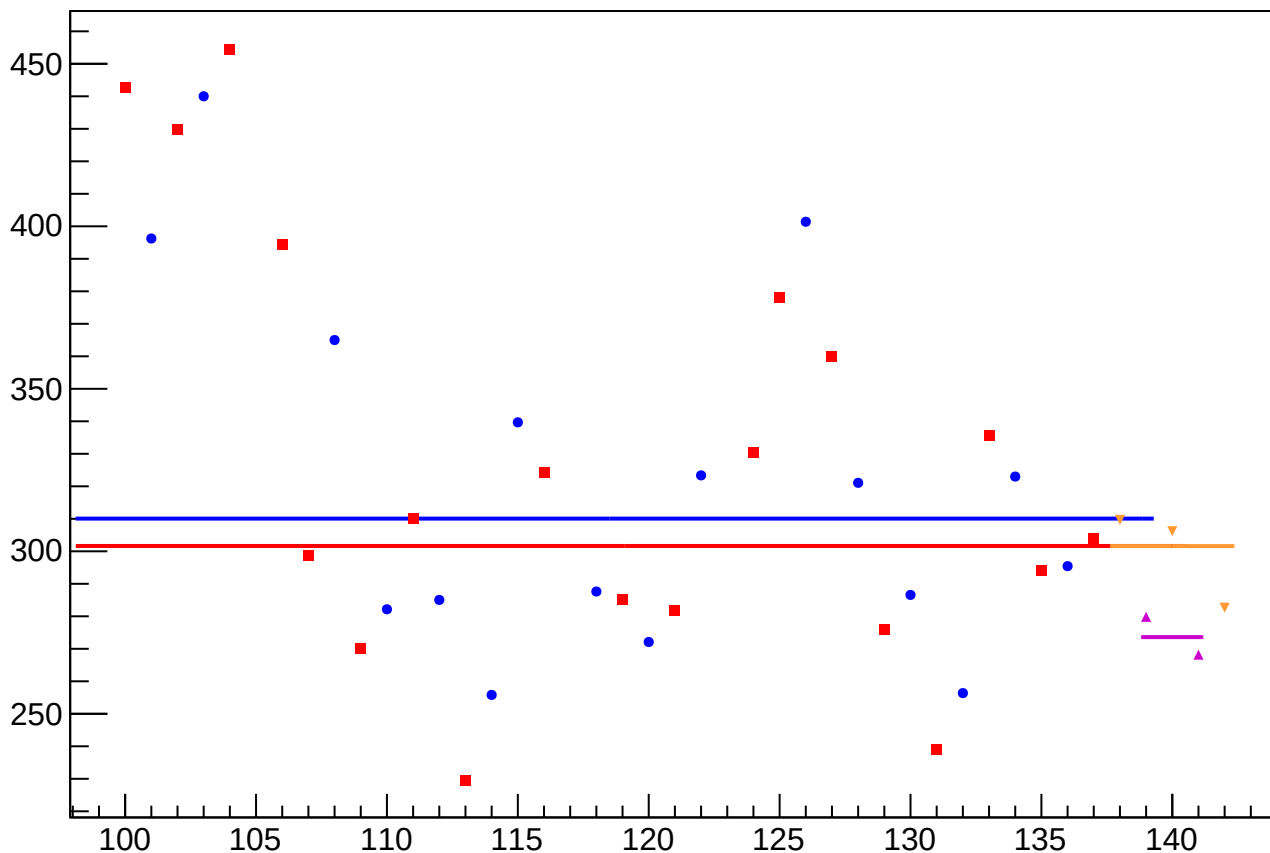
Right: -626.246 ± 81.618 $\chi^2/\text{NDF}: 469.7/34$

In: -316.665 ± 102.721 $\chi^2/\text{NDF}: 203.2/17$

Out: -474.140 ± 99.853 $\chi^2/\text{NDF}: 354.8/21$

All: -397.632 ± 71.599 $\chi^2/\text{NDF}: 559.2/39$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 310.062+/-0.083 χ^2/NDF : 323283.5/15

Left Out: 301.609+/-0.150 χ^2/NDF : 5346.4/2

Right Out: 301.637+/-0.080 χ^2/NDF : 519888.9/18

Left In: 273.596+/-0.148 χ^2/NDF : 1537.2/1

Left: 287.390+/-0.105 χ^2/NDF : 24516.2/4

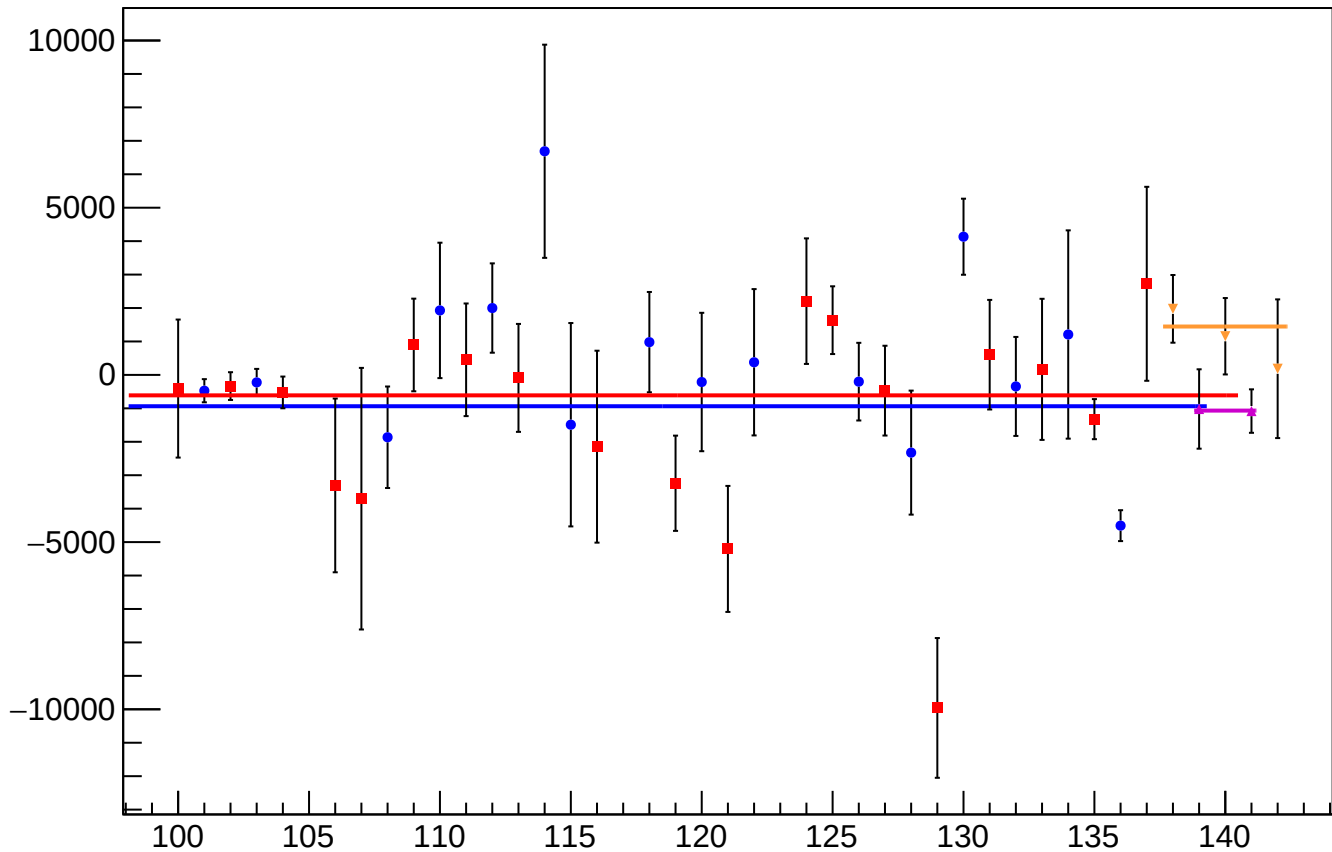
Right: 305.675+/-0.058 χ^2/NDF : 848490.9/34

In: 301.283+/-0.073 χ^2/NDF : 370893.0/17

Out: 301.631+/-0.071 χ^2/NDF : 525235.4/21

All: 301.462+/-0.051 χ^2/NDF : 896140.2/39

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -936.949+/-204.717 χ^2/NDF : 101.2/15

Left Out: 1446.718+/-711.662 χ^2/NDF : 0.7/2

Right Out: -611.668+/-233.144 χ^2/NDF : 44.1/18

Left In: -1067.334+/-570.142 χ^2/NDF : 0.0/1

Left: -84.534+/-444.958 χ^2/NDF : 8.3/4

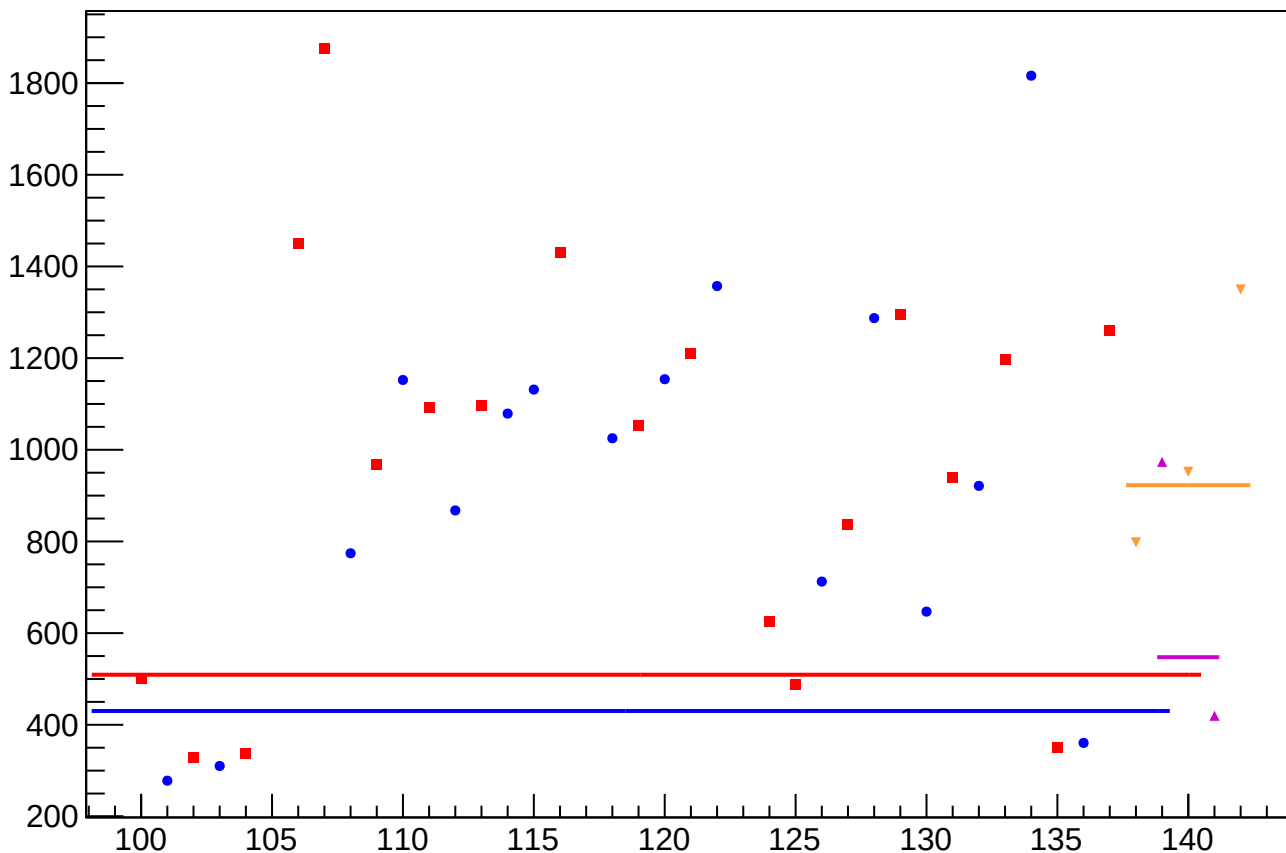
Right: -795.339+/-153.831 χ^2/NDF : 146.4/34

In: -951.840+/-192.673 χ^2/NDF : 101.2/17

Out: -412.163+/-221.558 χ^2/NDF : 52.4/21

All: -719.452+/-145.388 χ^2/NDF : 157.0/39

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 430.110+/-0.145 χ^2/NDF : 3521861.8/15

Left Out: 922.779+/-0.503 χ^2/NDF :116504.5/2

Right Out: 509.236+/-0.165 χ^2/NDF : 3673425.8/18

Left In: 547.500+/-0.403 χ^2/NDF :335049.6/1

Left: 694.205+/-0.315 χ^2/NDF : 790292.4/4

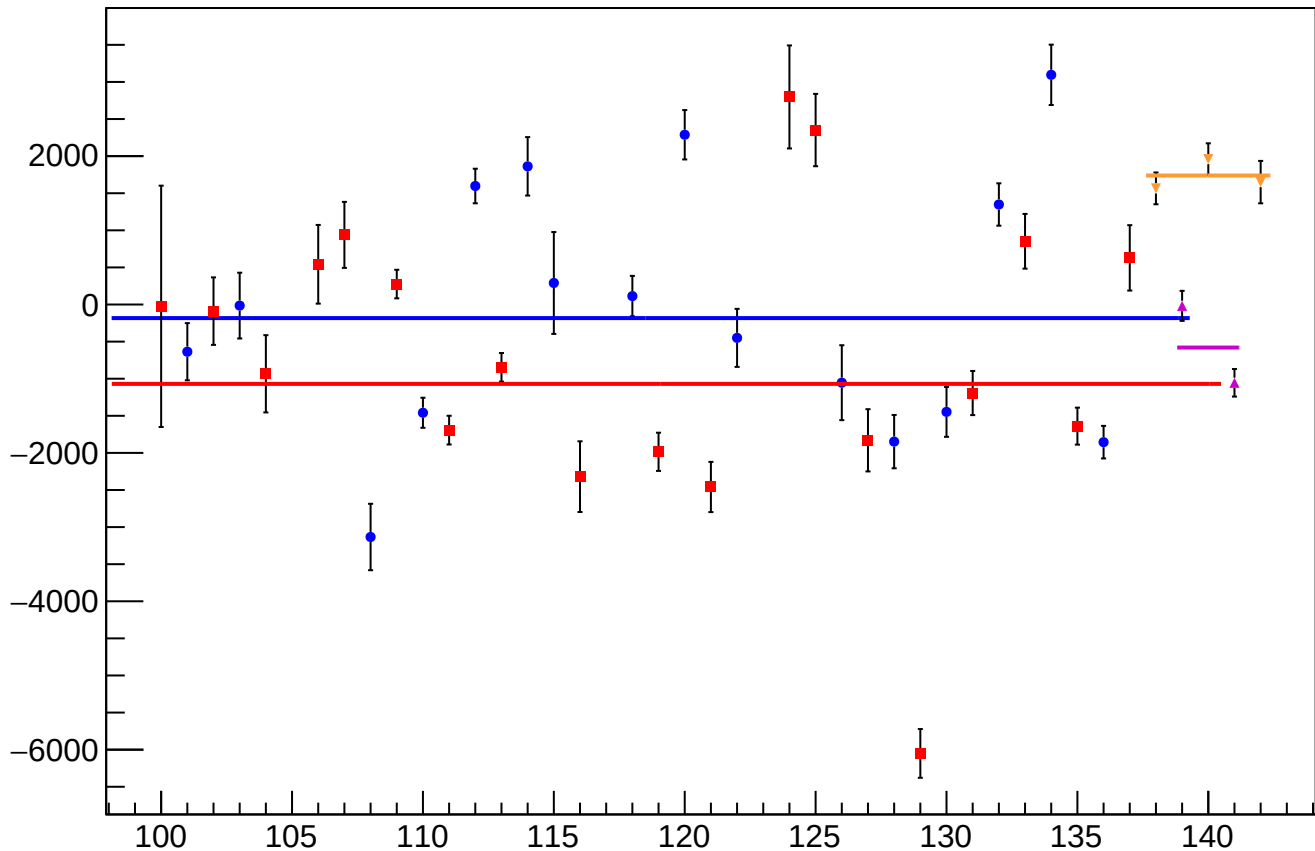
Right: 464.557+/-0.109 χ^2/NDF : 7325362.7/34

In: 443.516+/-0.136 χ^2/NDF :3932014.3/17

Out: 549.318+/-0.157 χ^2/NDF :4399817.0/21

All: 489.075+/-0.103 χ^2/NDF : 8591518.2/39

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -183.020 ± 79.863 χ^2/NDF : 417.7/15

Left Out: 1738.830 ± 133.513 χ^2/NDF : 1.8/2

Right Out: -1069.729 ± 73.060 χ^2/NDF : 492.3/18

Left In: -580.051 ± 136.891 χ^2/NDF : 14.2/1

Left: 608.350 ± 95.580 χ^2/NDF : 163.1/4

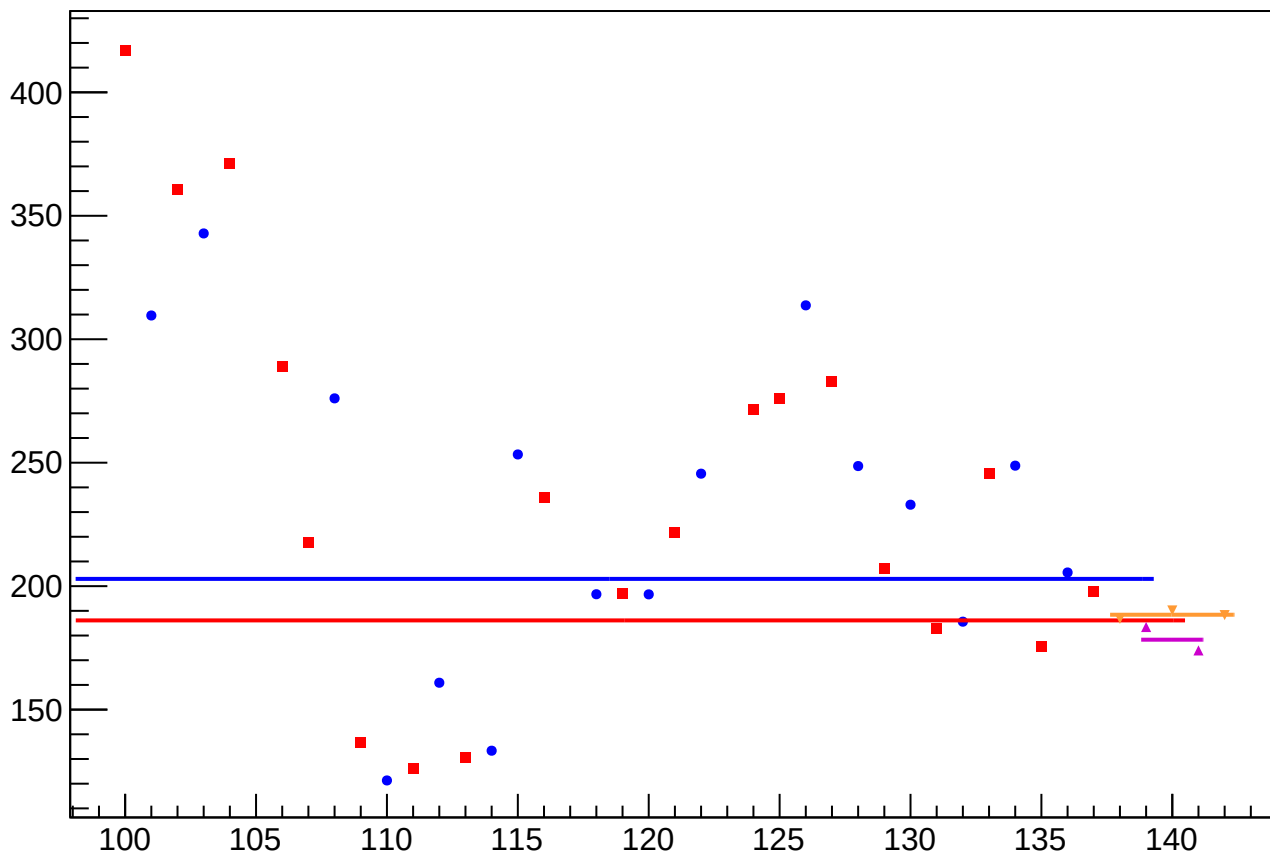
Right: -665.741 ± 53.906 χ^2/NDF : 977.1/34

In: -283.839 ± 68.982 χ^2/NDF : 438.2/17

Out: -422.523 ± 64.092 χ^2/NDF : 834.6/21

All: -358.271 ± 46.953 χ^2/NDF : 1275.0/39

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 202.941+/-0.056 χ^2/NDF : 1071859.2/15

Left Out: 188.425+/-0.094 χ^2/NDF :254.2/2

Right Out: 186.129+/-0.052 χ^2/NDF : 1481664.4/18

Left In: 178.316+/-0.097 χ^2/NDF :2381.7/1

Left: 183.497+/-0.068 χ^2/NDF : 8224.9/4

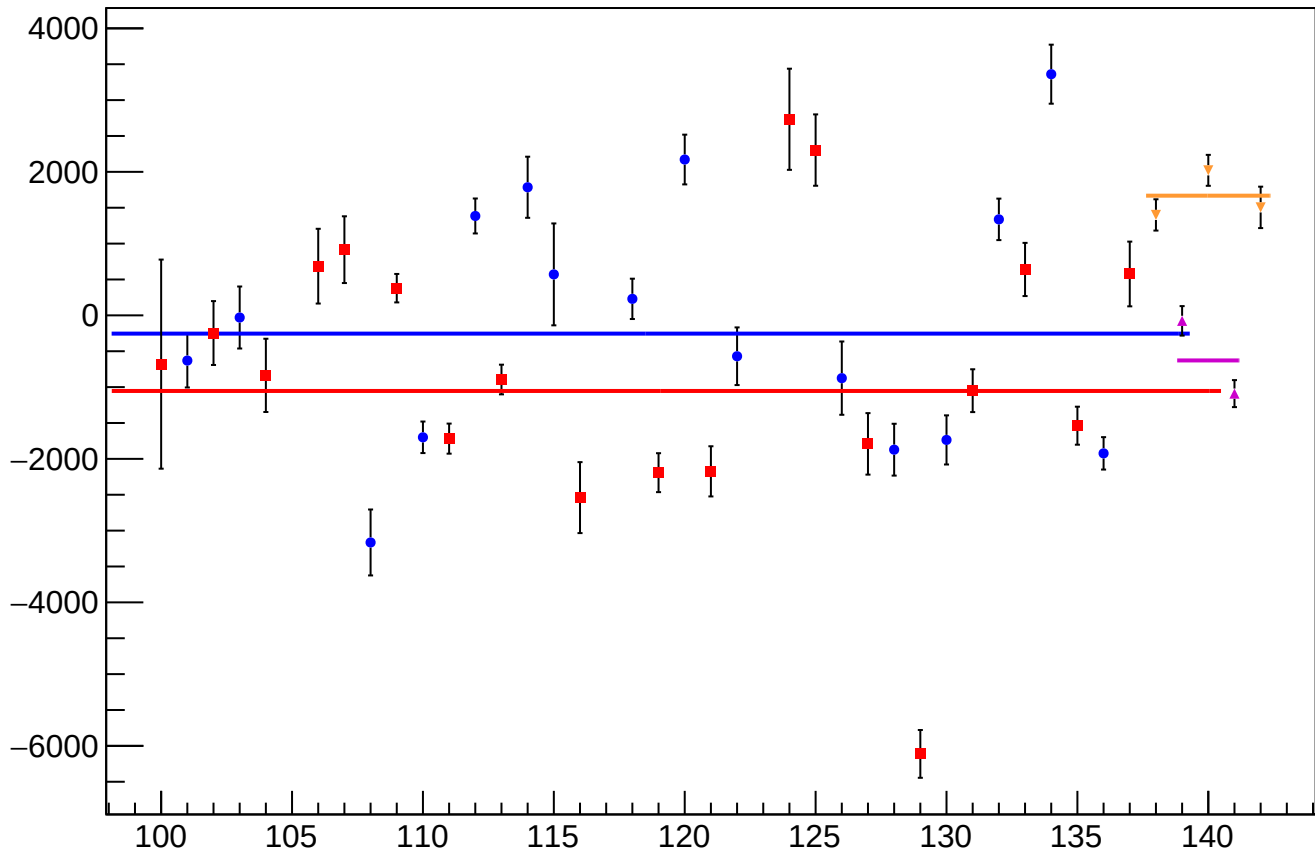
Right: 193.789+/-0.038 χ^2/NDF : 2601774.8/34

In: 196.688+/-0.049 χ^2/NDF :1122525.4/17

Out: 186.658+/-0.045 χ^2/NDF :1482373.7/21

All: 191.305+/-0.033 χ^2/NDF : 2627592.8/39

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -254.470+/-82.490 χ^2/NDF : 409.3/15

Left Out: 1667.943+/-135.406 χ^2/NDF : 4.5/2

Right Out: -1053.731+/-75.969 χ^2/NDF : 477.7/18

Left In: -628.213+/-138.813 χ^2/NDF : 13.2/1

Left: 548.393+/-96.929 χ^2/NDF : 158.0/4

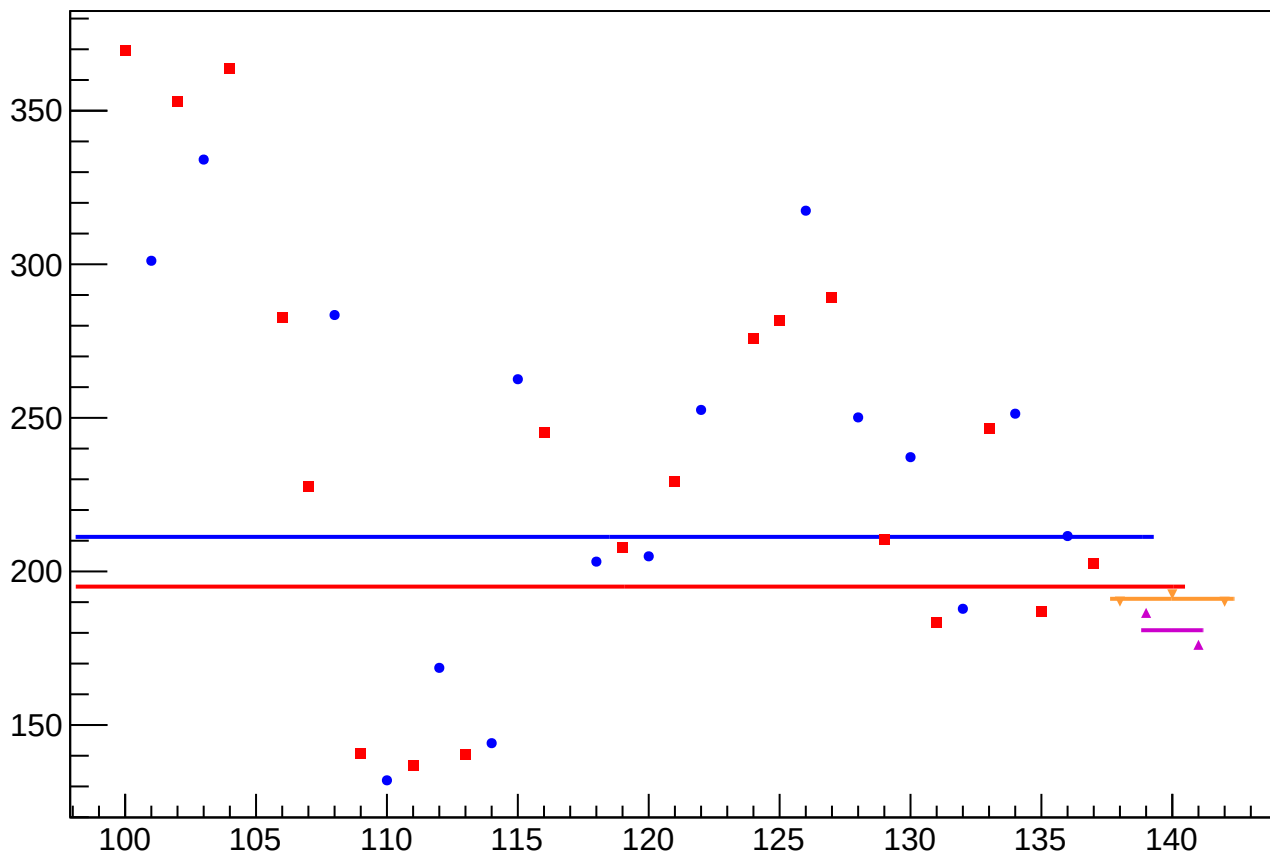
Right: -686.933+/-55.882 χ^2/NDF : 937.7/34

In: -352.007+/-70.914 χ^2/NDF : 427.9/17

Out: -402.123+/-66.254 χ^2/NDF : 789.5/21

All: -378.765+/-48.412 χ^2/NDF : 1217.6/39

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 211.254+/-0.058 χ^2/NDF : 884363.6/15

Left Out: 191.090+/-0.096 χ^2/NDF :148.9/2

Right Out: 195.061+/-0.054 χ^2/NDF : 1284879.9/18

Left In: 180.861+/-0.098 χ^2/NDF :2781.9/1

Left: 186.102+/-0.069 χ^2/NDF : 8495.7/4

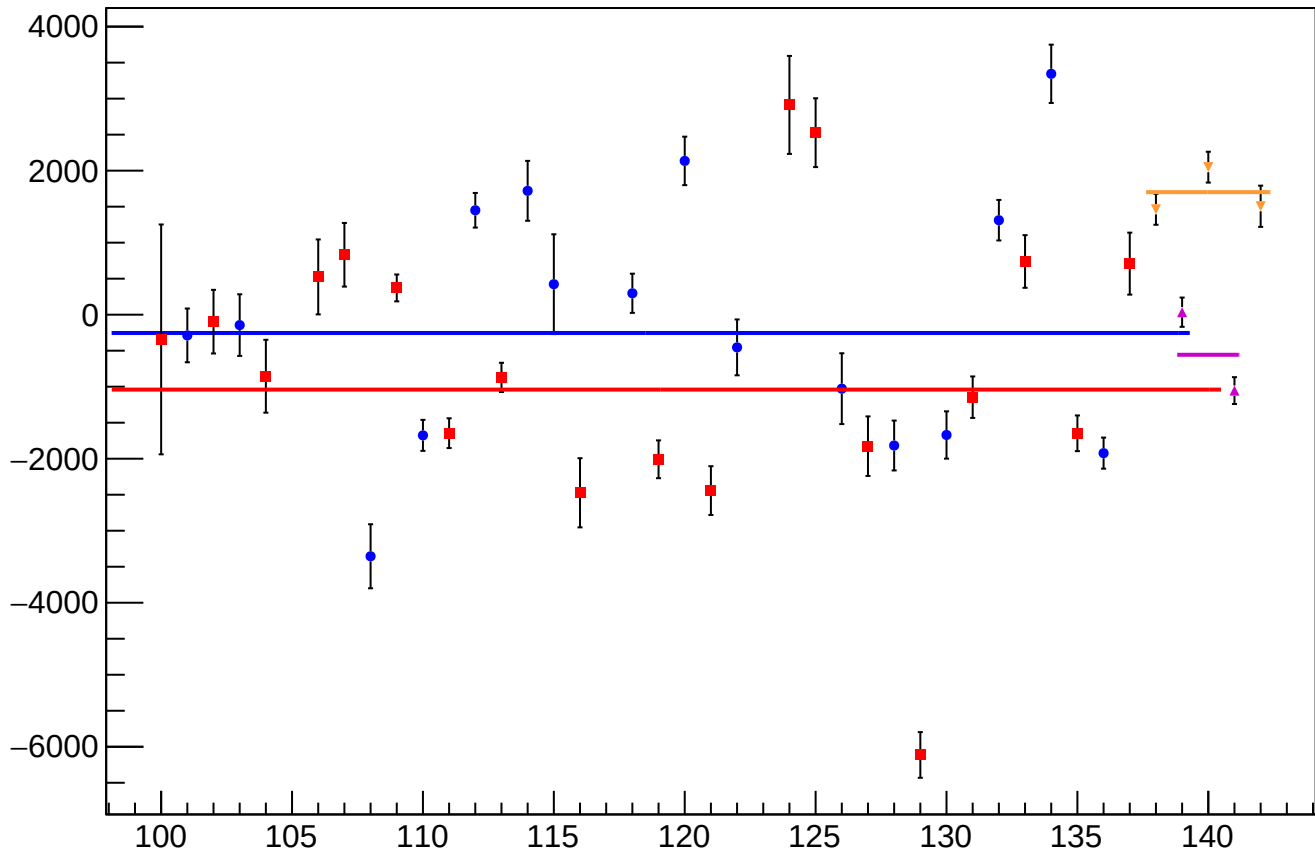
Right: 202.492+/-0.040 χ^2/NDF : 2210941.3/34

In: 203.322+/-0.050 χ^2/NDF :958000.5/17

Out: 194.110+/-0.047 χ^2/NDF :1286337.6/21

All: 198.403+/-0.034 χ^2/NDF : 2262356.5/39

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -254.044+/-80.222 χ^2/NDF : 432.1/15

Left Out: 1701.648+/-134.032 χ^2/NDF : 4.3/2

Right Out: -1040.361+/-73.363 χ^2/NDF : 533.4/18

Left In: -556.760+/-137.417 χ^2/NDF : 15.6/1

Left: 600.604+/-95.949 χ^2/NDF : 158.3/4

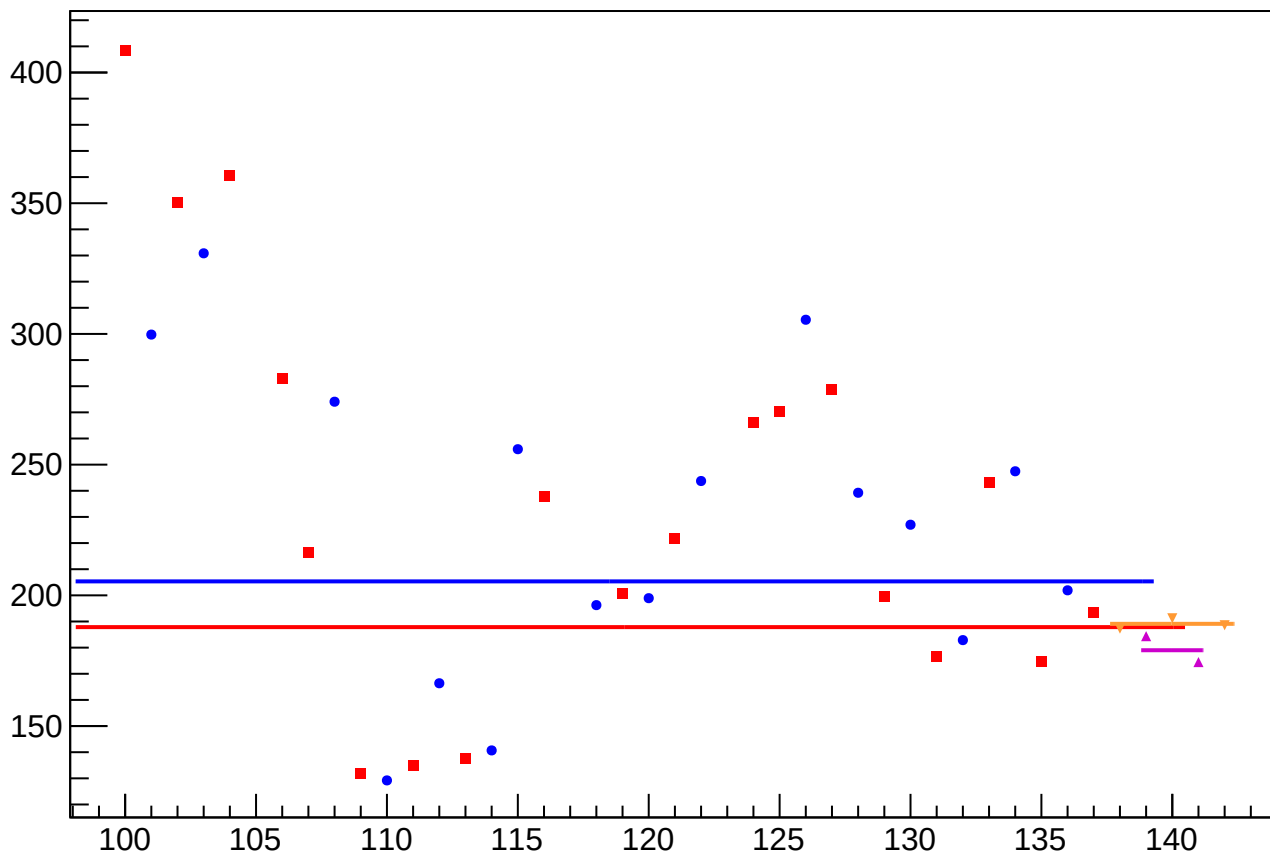
Right: -682.251+/-54.138 χ^2/NDF : 1017.8/34

In: -330.989+/-69.281 χ^2/NDF : 451.3/17

Out: -408.242+/-64.354 χ^2/NDF : 859.7/21

All: -372.460+/-47.151 χ^2/NDF : 1311.7/39

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 205.341 ± 0.057 χ^2/NDF : 877398.6/15

Left Out: 189.105 ± 0.095 χ^2/NDF : 347.5/2

Right Out: 187.848 ± 0.052 χ^2/NDF : 1337049.4/18

Left In: 179.005 ± 0.097 χ^2/NDF : 2579.3/1

Left: 184.181 ± 0.068 χ^2/NDF : 8463.5/4

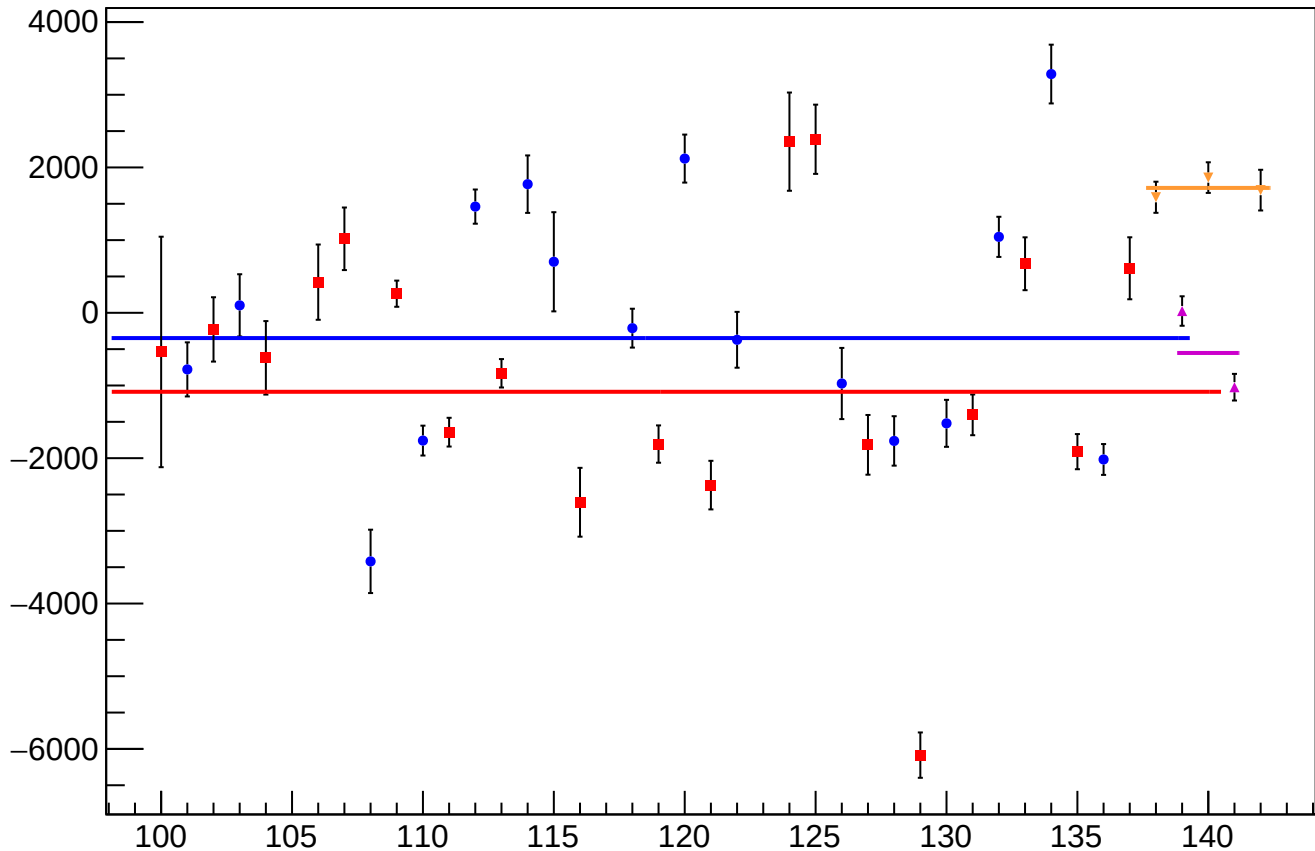
Right: 195.815 ± 0.038 χ^2/NDF : 2266235.0/34

In: 198.647 ± 0.049 χ^2/NDF : 934766.3/17

Out: 188.138 ± 0.046 χ^2/NDF : 1337532.2/21

All: 193.006 ± 0.033 χ^2/NDF : 2297002.3/39

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.666+/-78.567 χ^2/NDF : 445.8/15

Left Out: 1718.290+/-132.336 χ^2/NDF : 0.8/2

Right Out: -1086.638+/-71.539 χ^2/NDF : 527.2/18

Left In: -552.554+/-135.960 χ^2/NDF : 14.7/1

Left: 613.536+/-94.831 χ^2/NDF : 158.8/4

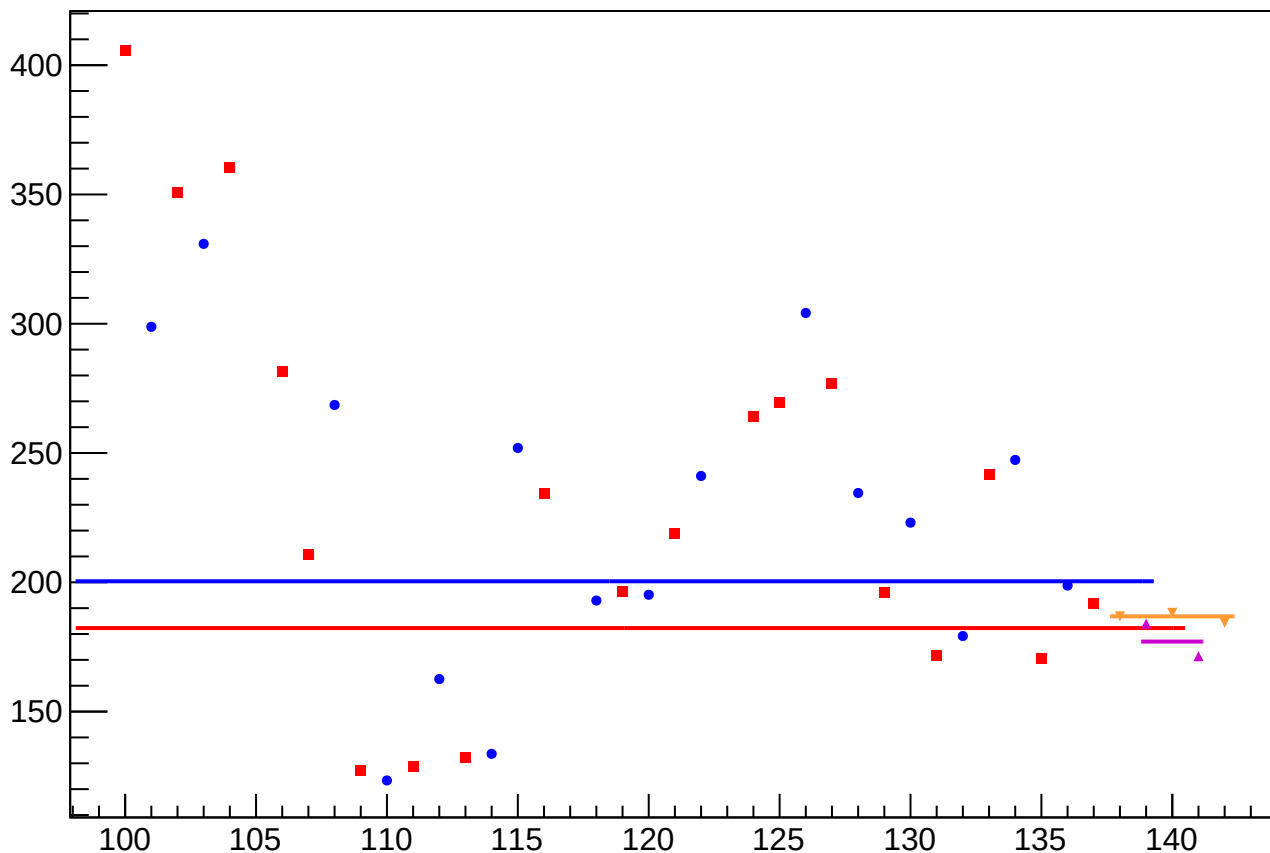
Right: -751.676+/-52.896 χ^2/NDF : 1021.4/34

In: -398.957+/-68.026 χ^2/NDF : 462.2/17

Out: -452.314+/-62.932 χ^2/NDF : 875.7/21

All: -427.708+/-46.196 χ^2/NDF : 1338.2/39

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 200.399 $\pm$ 0.056 χ^2 /NDF: 959000.8/15

Left Out: 186.824 $\pm$ 0.094 χ^2 /NDF: 235.6/2

Right Out: 182.302 $\pm$ 0.051 χ^2 /NDF: 1447197.0/18

Left In: 177.073 $\pm$ 0.096 χ^2 /NDF: 4234.2/1

Left: 182.080 $\pm$ 0.067 χ^2 /NDF: 9753.2/4

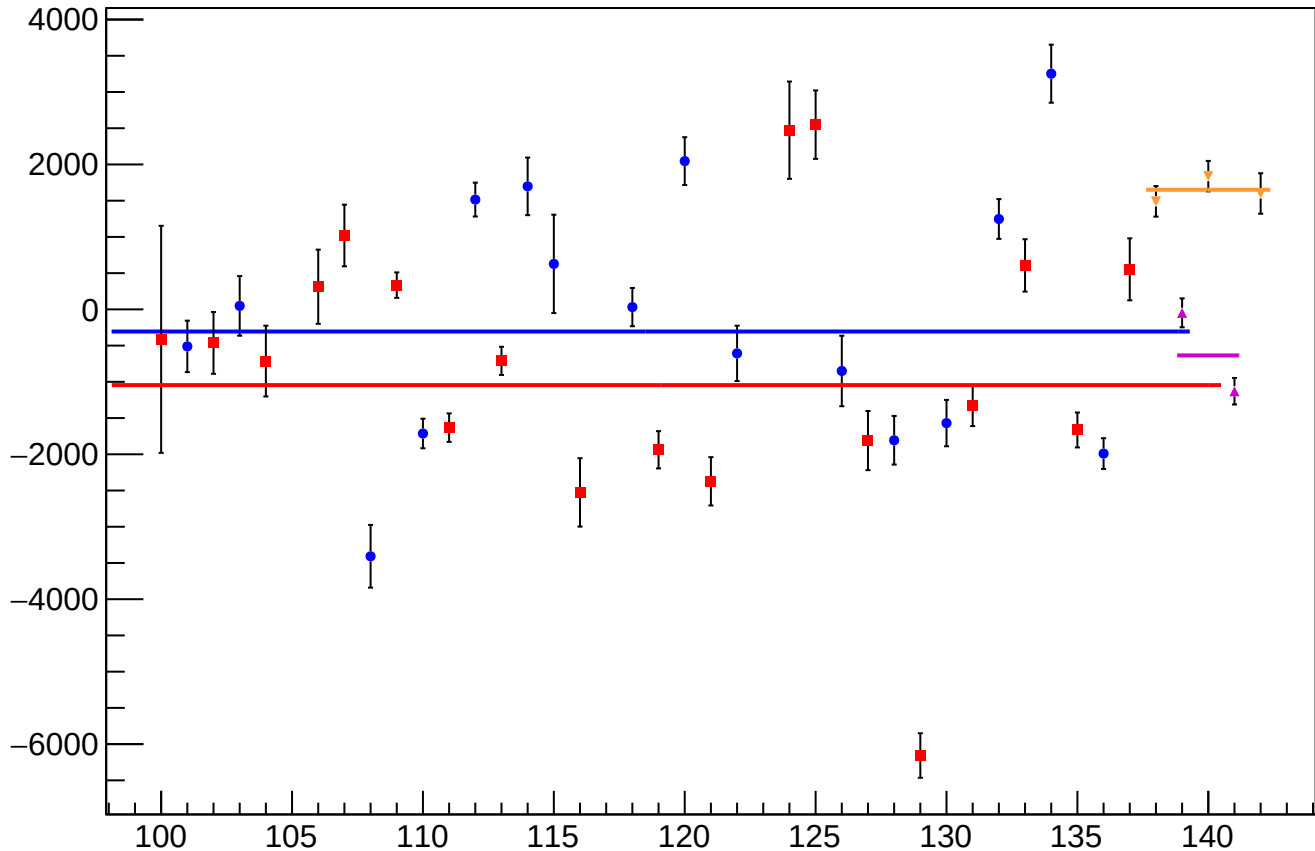
Right: 190.505 $\pm$ 0.037 χ^2 /NDF: 2464212.0/34

In: 194.559 $\pm$ 0.048 χ^2 /NDF: 1007367.2/17

Out: 183.324 $\pm$ 0.044 χ^2 /NDF: 1449240.4/21

All: 188.506 $\pm$ 0.033 χ^2 /NDF: 2486003.4/39

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -305.649 $\pm$ 77.868 χ^2/NDF : 451.8/15

Left Out: 1650.580 $\pm$ 131.400 χ^2/NDF : 1.4/2

Right Out: -1045.144 $\pm$ 70.824 χ^2/NDF : 552.2/18

Left In: -635.413 $\pm$ 134.930 χ^2/NDF : 15.9/1

Left: 537.878 $\pm$ 94.137 χ^2/NDF : 164.7/4

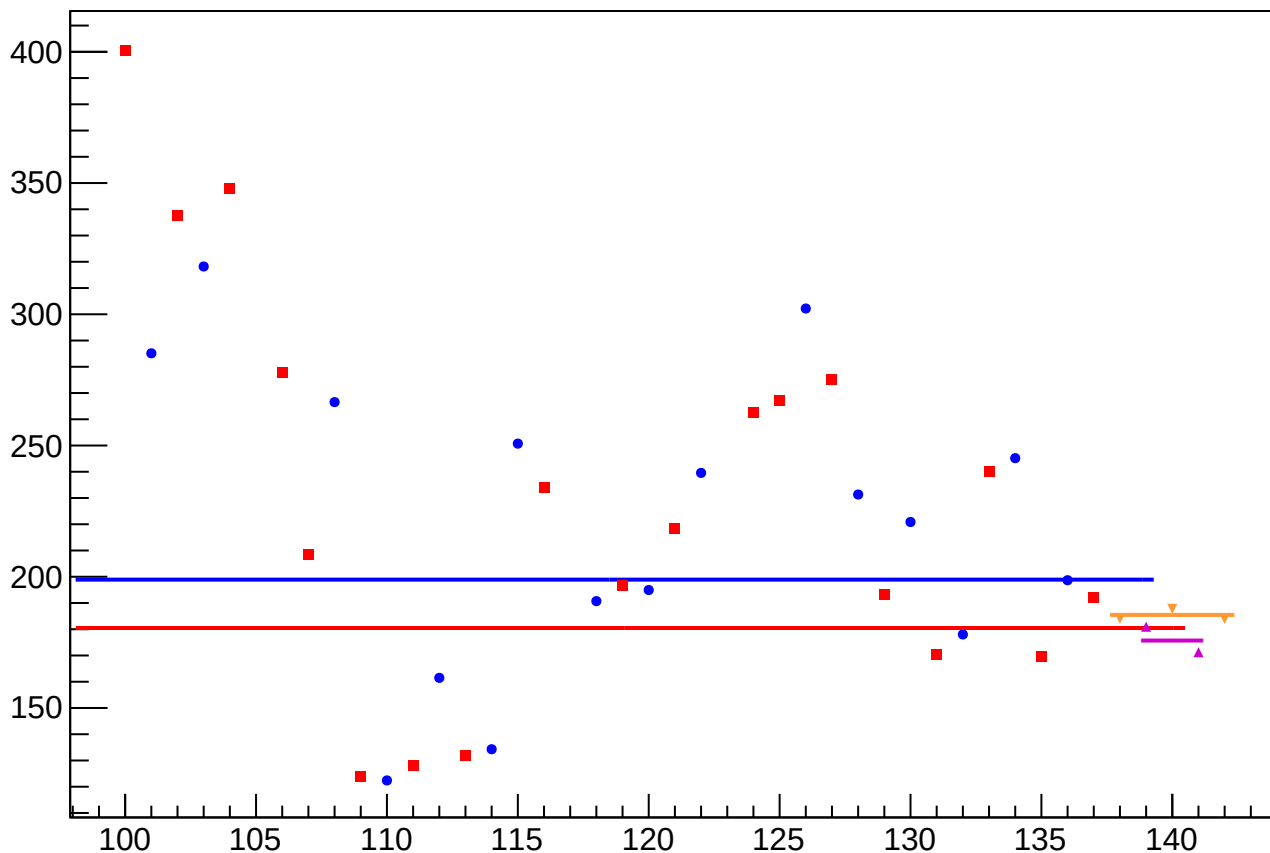
Right: -710.354 $\pm$ 52.394 χ^2/NDF : 1053.3/34

In: -388.036 $\pm$ 67.443 χ^2/NDF : 472.2/17

Out: -438.300 $\pm$ 62.344 χ^2/NDF : 879.7/21

All: -415.140 $\pm$ 45.781 χ^2/NDF : 1352.2/39

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 198.903+/-0.055 χ^2/NDF : 912765.0/15

Left Out: 185.463+/-0.093 χ^2/NDF : 395.7/2

Right Out: 180.473+/-0.050 χ^2/NDF : 1434435.8/18

Left In: 175.694+/-0.095 χ^2/NDF : 2578.7/1

Left: 180.708+/-0.067 χ^2/NDF : 8355.0/4

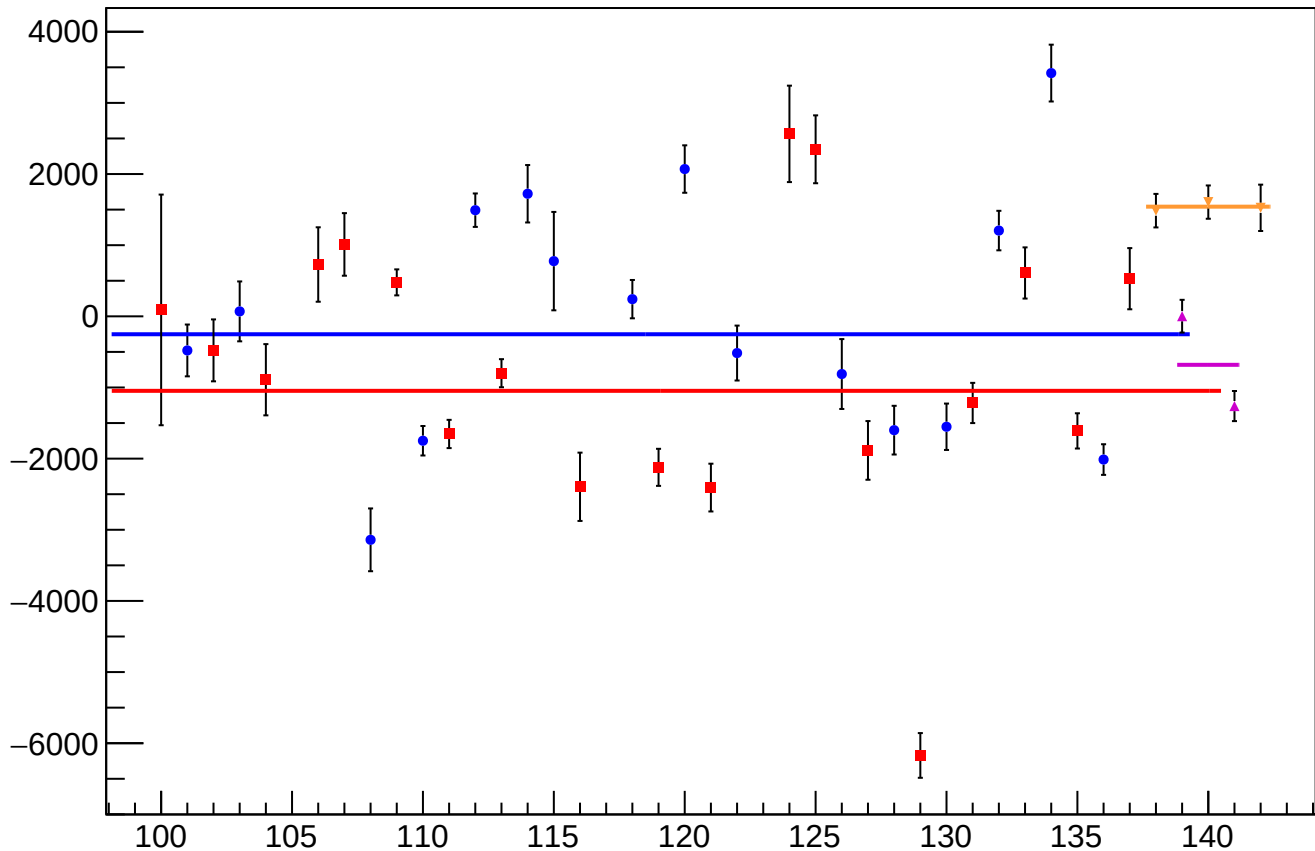
Right: 188.816+/-0.037 χ^2/NDF : 2408514.3/34

In: 193.104+/-0.048 χ^2/NDF : 959731.0/17

Out: 181.596+/-0.044 χ^2/NDF : 1437066.7/21

All: 186.899+/-0.032 χ^2/NDF : 2428198.2/39

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -251.795 ± 78.974 $\chi^2/\text{NDF}: 441.2/15$

Left Out: 1541.530 ± 147.911 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -1047.132 ± 72.190 $\chi^2/\text{NDF}: 546.7/18$

Left In: -681.521 ± 155.693 $\chi^2/\text{NDF}: 16.3/1$

Left: 486.948 ± 107.235 $\chi^2/\text{NDF}: 123.6/4$

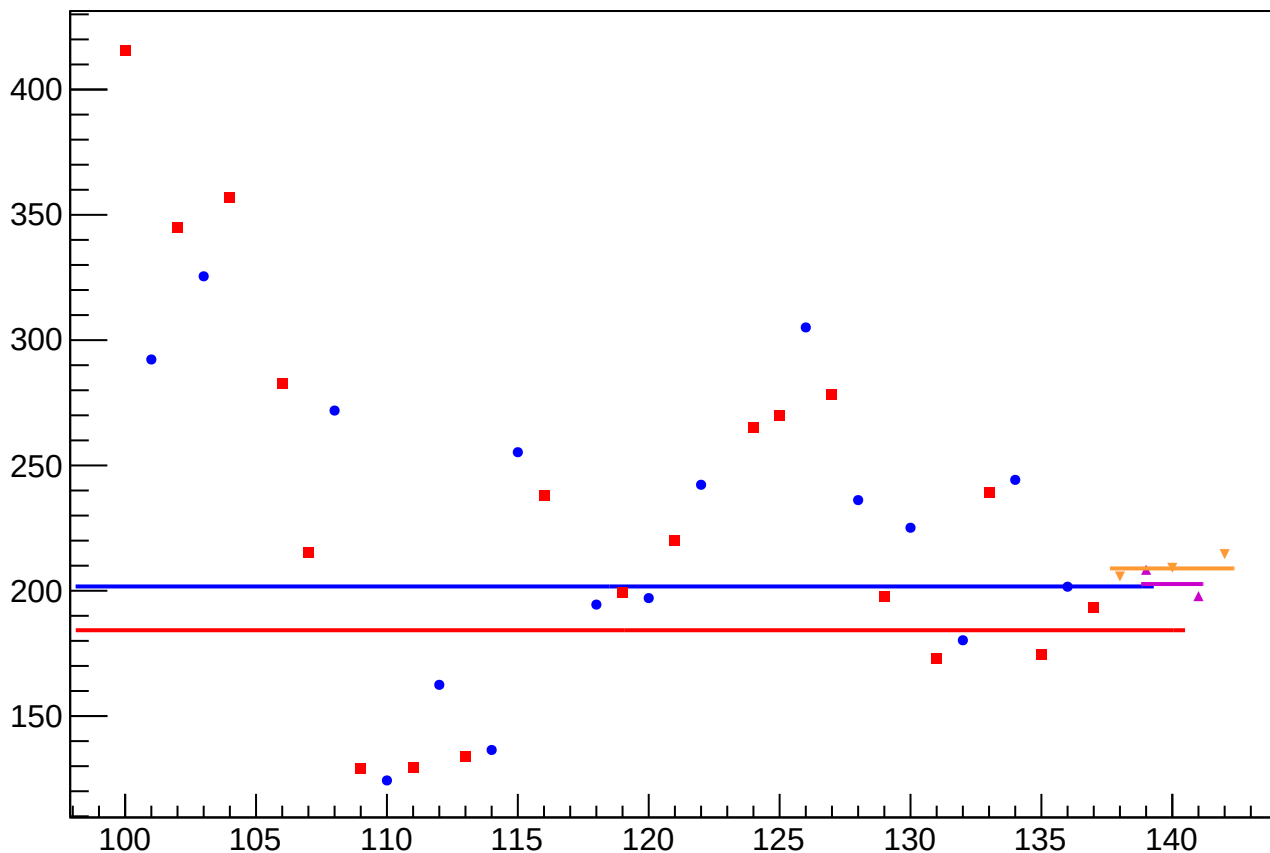
Right: -685.086 ± 53.283 $\chi^2/\text{NDF}: 1043.2/34$

In: -339.735 ± 70.431 $\chi^2/\text{NDF}: 463.6/17$

Out: -549.126 ± 64.875 $\chi^2/\text{NDF}: 794.2/21$

All: -453.014 ± 47.717 $\chi^2/\text{NDF}: 1262.7/39$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 201.714+/-0.056 χ^2/NDF : 924210.1/15

Left Out: 208.908+/-0.105 χ^2/NDF : 986.1/2

Right Out: 184.244+/-0.051 χ^2/NDF : 1403761.8/18

Left In: 202.685+/-0.110 χ^2/NDF : 2264.4/1

Left: 205.956+/-0.076 χ^2/NDF : 4930.1/4

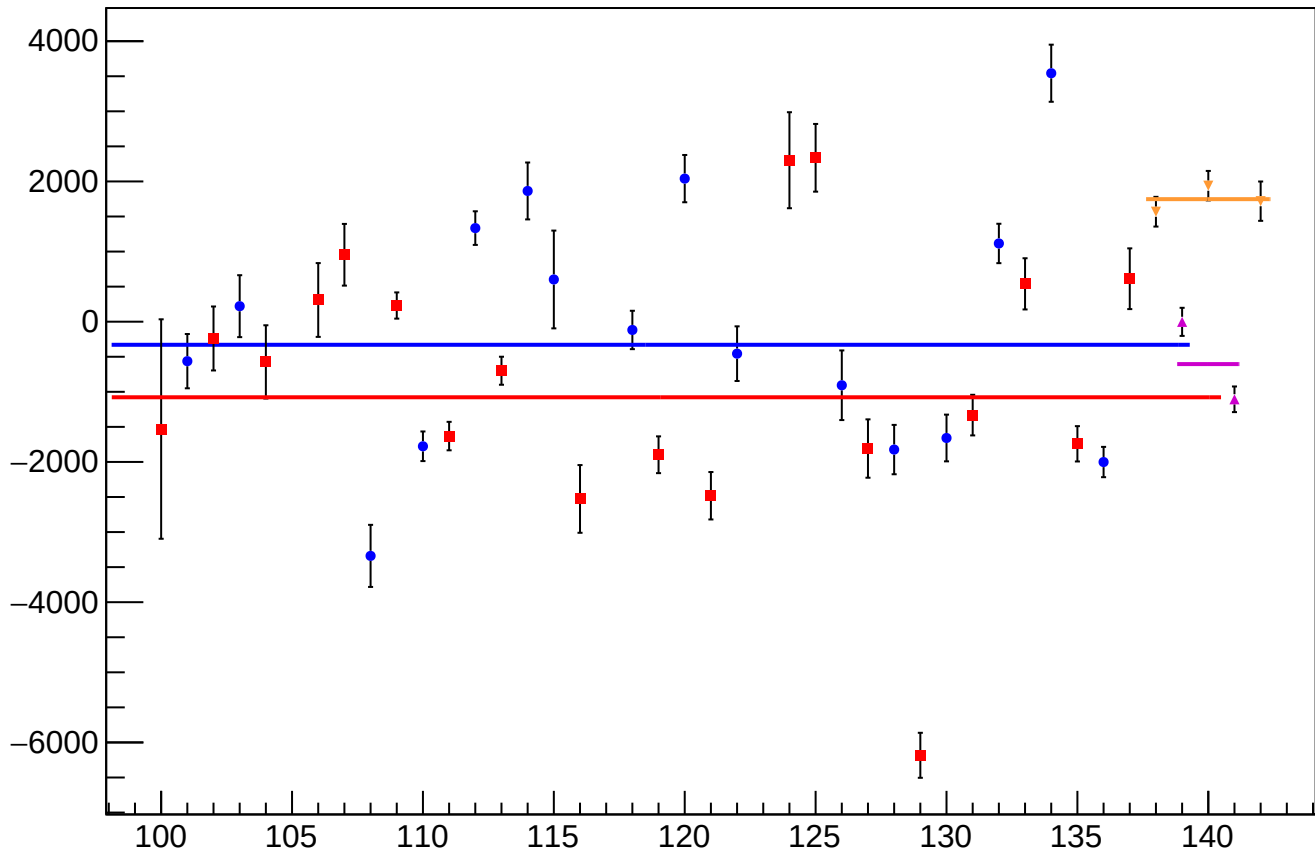
Right: 192.196+/-0.038 χ^2/NDF : 2381288.1/34

In: 201.912+/-0.050 χ^2/NDF : 926536.4/17

Out: 188.989+/-0.046 χ^2/NDF : 1449660.2/21

All: 194.921+/-0.034 χ^2/NDF : 2412626.3/39

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -329.377 $\pm$ 80.367 χ^2/NDF : 436.4/15

Left Out: 1747.374 $\pm$ 131.778 χ^2/NDF : 1.6/2

Right Out: -1077.876 $\pm$ 73.404 χ^2/NDF : 502.0/18

Left In: -604.636 $\pm$ 135.031 χ^2/NDF : 16.6/1

Left: 600.043 $\pm$ 94.310 χ^2/NDF : 173.5/4

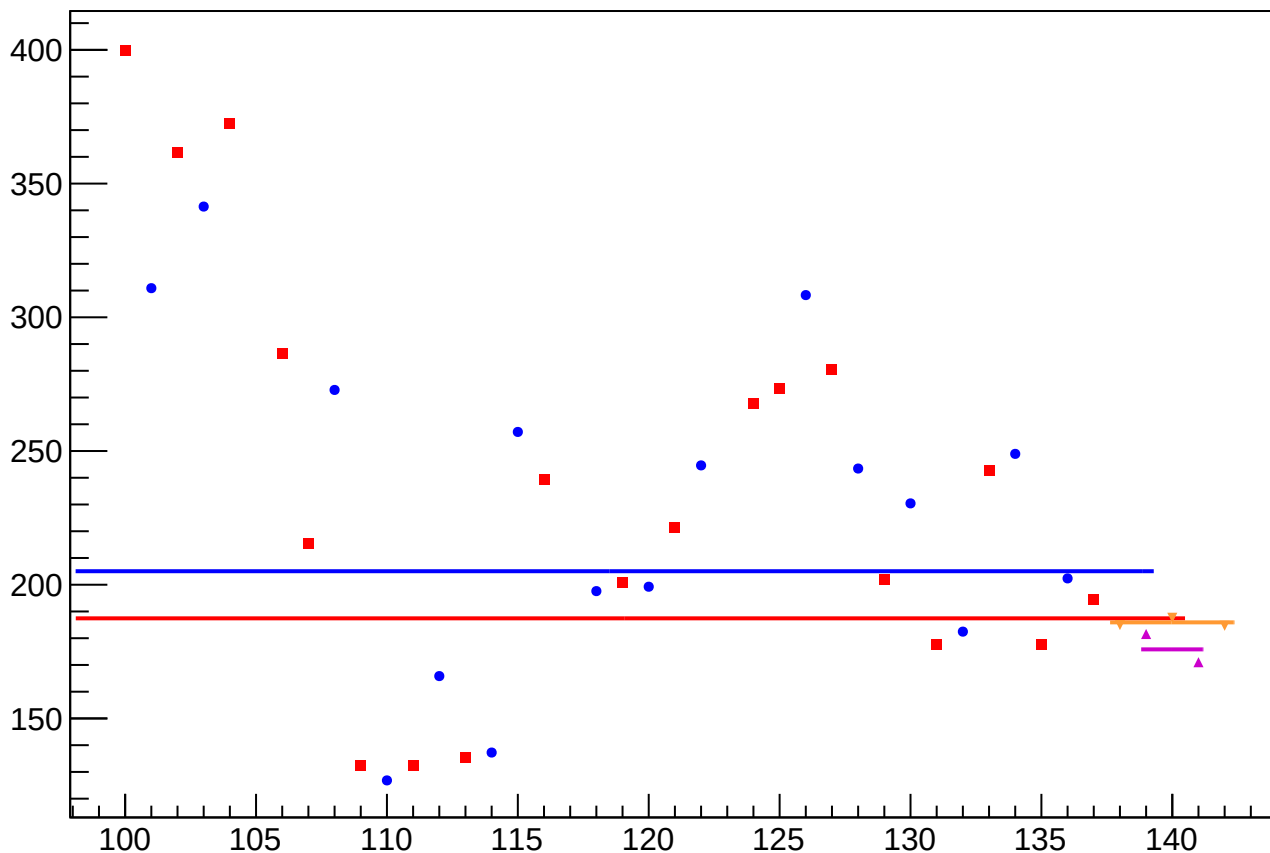
Right: -737.449 $\pm$ 54.199 χ^2/NDF : 985.7/34

In: -401.377 $\pm$ 69.061 χ^2/NDF : 456.1/17

Out: -408.841 $\pm$ 64.127 χ^2/NDF : 854.3/21

All: -405.385 $\pm$ 46.992 χ^2/NDF : 1310.4/39

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 205.053+/-0.057 χ^2/NDF : 963052.0/15

Left Out: 185.926+/-0.093 χ^2/NDF :220.3/2

Right Out: 187.431+/-0.052 χ^2/NDF : 1410802.2/18

Left In: 175.826+/-0.095 χ^2/NDF :3026.7/1

Left: 180.999+/-0.067 χ^2/NDF : 8979.1/4

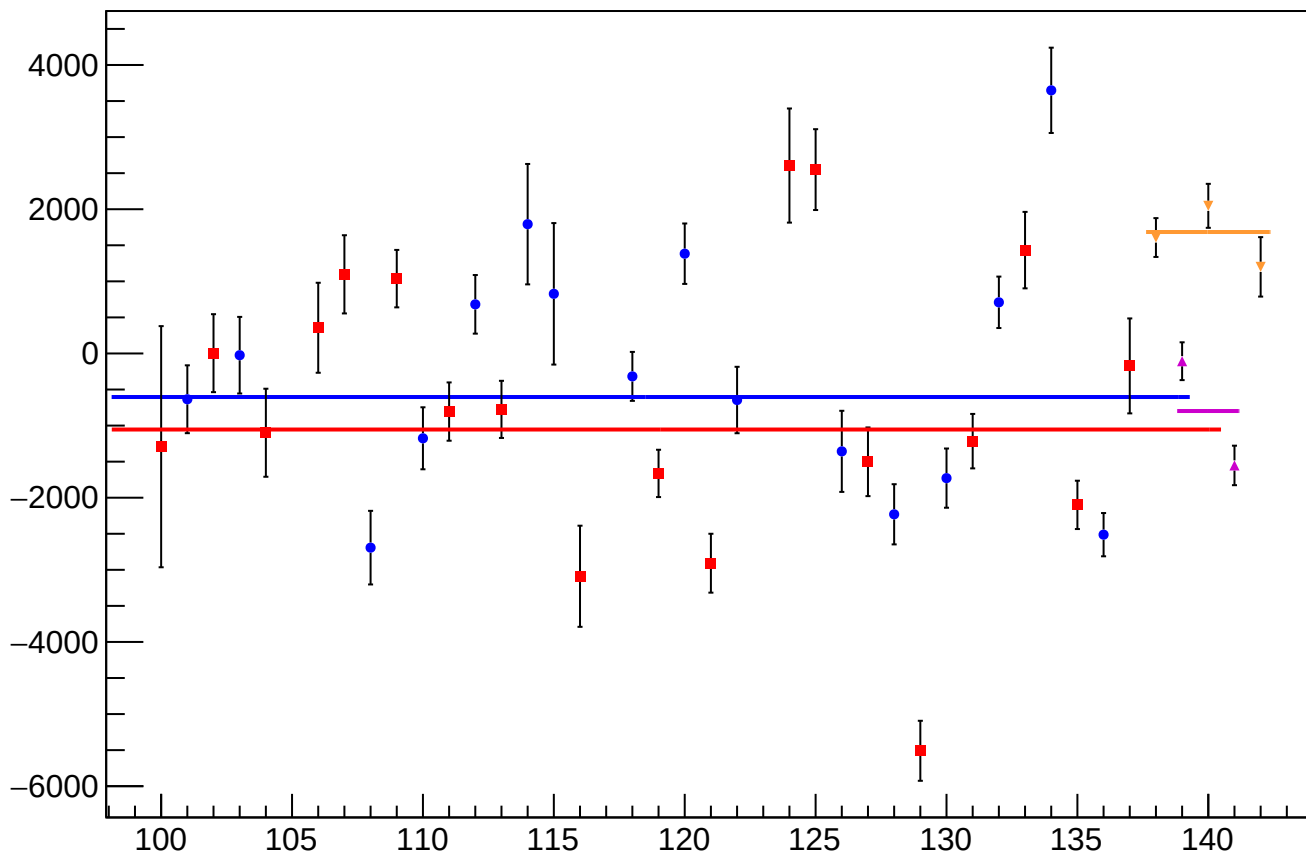
Right: 195.446+/-0.038 χ^2/NDF : 2426275.9/34

In: 197.408+/-0.049 χ^2/NDF :1035269.0/17

Out: 187.075+/-0.045 χ^2/NDF :1411221.6/21

All: 191.859+/-0.033 χ^2/NDF : 2470533.0/39

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -603.855+/-110.693 χ^2/NDF : 193.5/15

Left Out: 1684.175+/-181.275 χ^2/NDF : 2.9/2

Right Out: -1054.556+/-108.264 χ^2/NDF : 297.7/18

Left In: -797.987+/-189.368 χ^2/NDF : 14.5/1

Left: 497.268+/-130.948 χ^2/NDF : 107.1/4

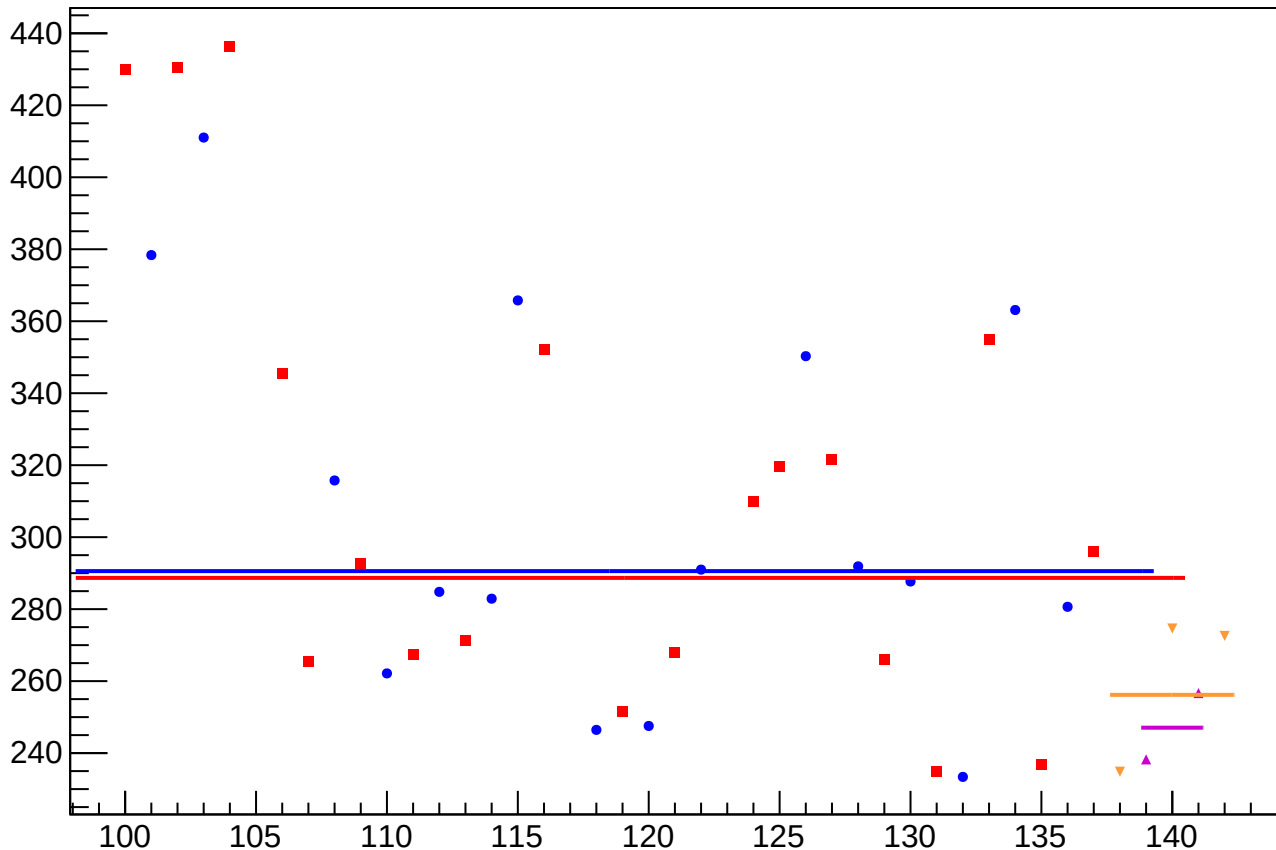
Right: -834.205+/-77.398 χ^2/NDF : 499.7/34

In: -653.294+/-95.564 χ^2/NDF : 208.9/17

Out: -334.511+/-92.949 χ^2/NDF : 468.8/21

All: -489.481+/-66.630 χ^2/NDF : 683.4/39

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 290.566+/-0.078 χ^2/NDF : 359807.1/15

Left Out: 256.191+/-0.128 χ^2/NDF : 23053.2/2

Right Out: 288.686+/-0.077 χ^2/NDF : 489094.8/18

Left In: 247.061+/-0.134 χ^2/NDF : 4724.7/1

Left: 251.825+/-0.093 χ^2/NDF : 30203.5/4

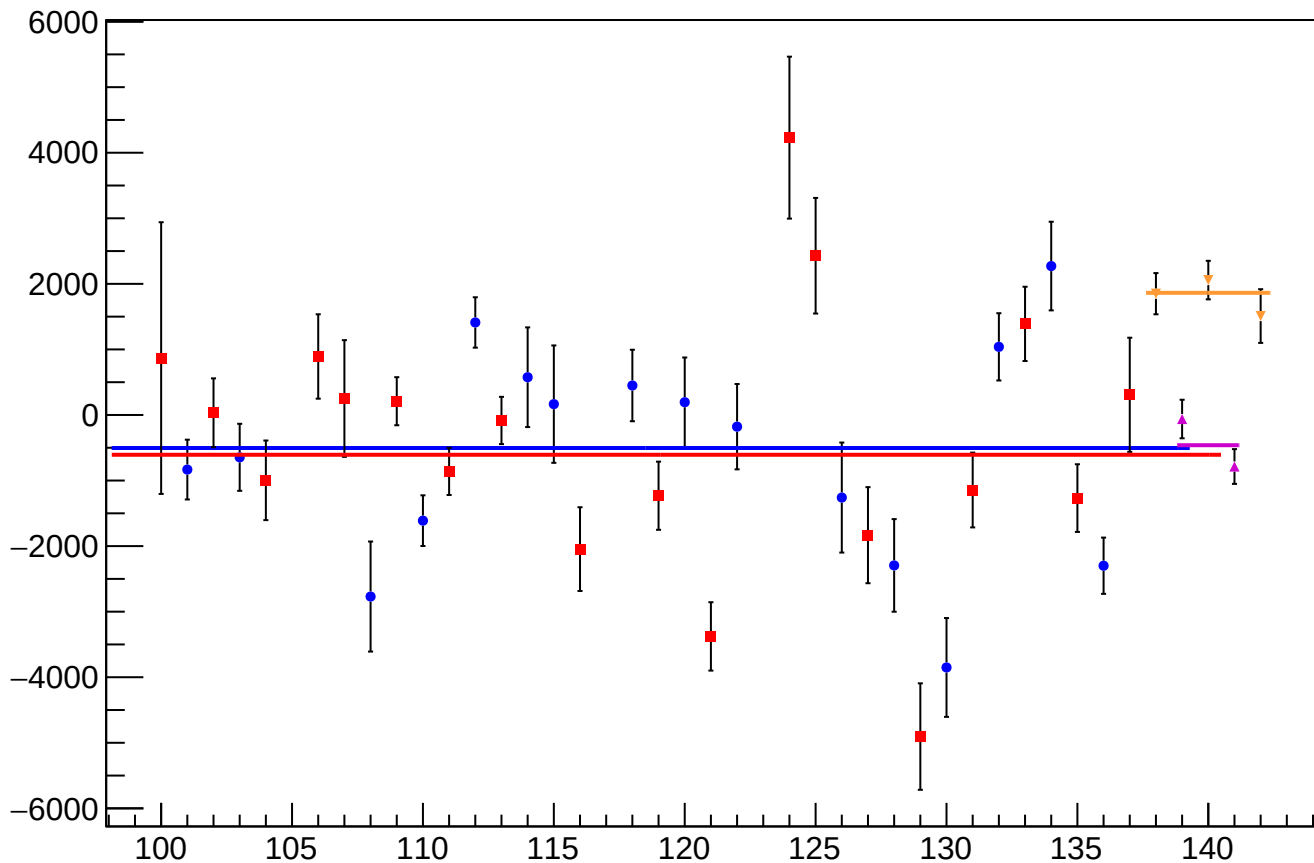
Right: 289.605+/-0.055 χ^2/NDF : 849196.8/34

In: 279.487+/-0.068 χ^2/NDF : 443208.3/17

Out: 280.143+/-0.066 χ^2/NDF : 559519.5/21

All: 279.824+/-0.047 χ^2/NDF : 1002776.2/39

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -503.675 ± 140.058 $\chi^2/\text{NDF}: 118.2/15$

Left Out: 1863.291 ± 190.183 $\chi^2/\text{NDF}: 1.2/2$

Right Out: -606.880 ± 129.609 $\chi^2/\text{NDF}: 125.1/18$

Left In: -461.028 ± 196.788 $\chi^2/\text{NDF}: 3.4/1$

Left: 740.789 ± 136.755 $\chi^2/\text{NDF}: 76.7/4$

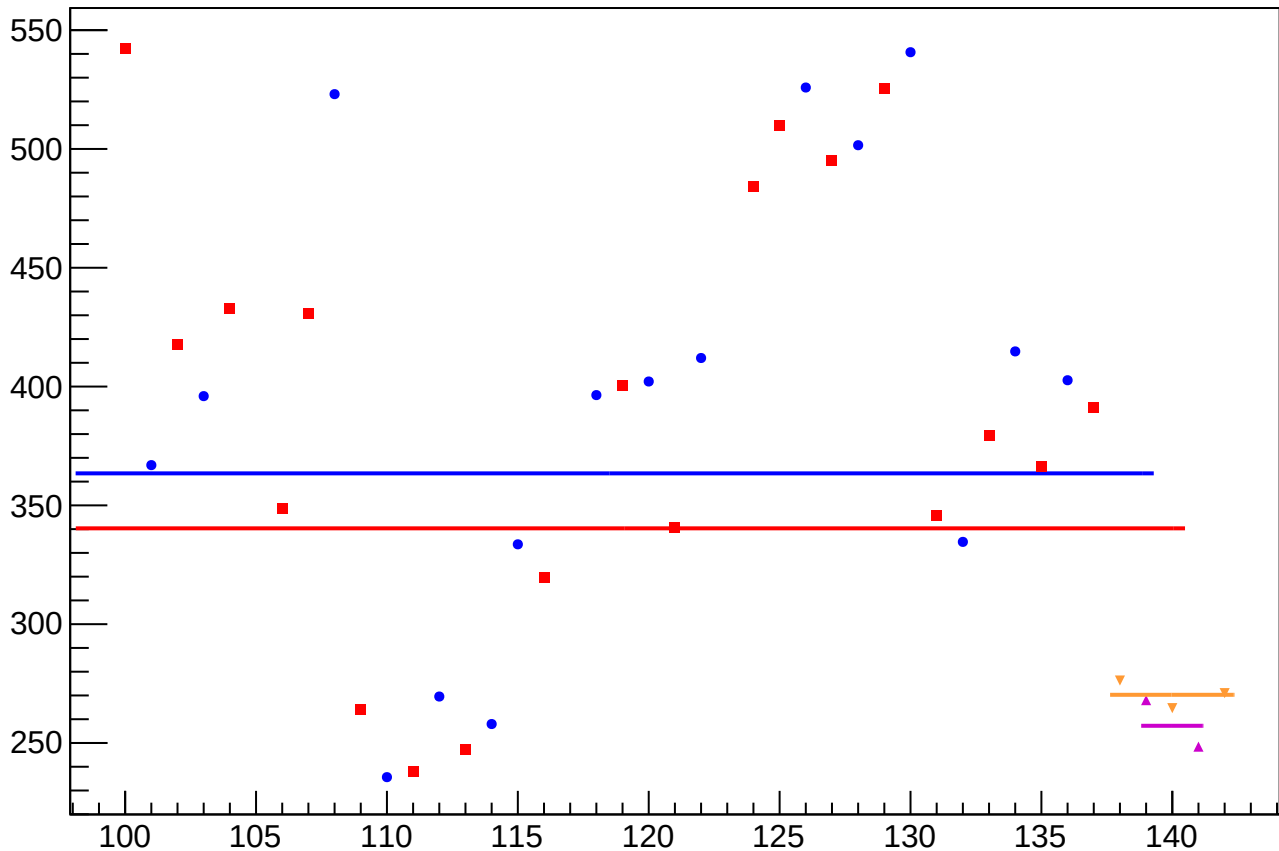
Right: -559.271 ± 95.127 $\chi^2/\text{NDF}: 243.7/34$

In: -489.336 ± 114.108 $\chi^2/\text{NDF}: 121.6/17$

Out: 176.514 ± 107.102 $\chi^2/\text{NDF}: 241.5/21$

All: -135.345 ± 78.092 $\chi^2/\text{NDF}: 381.3/39$

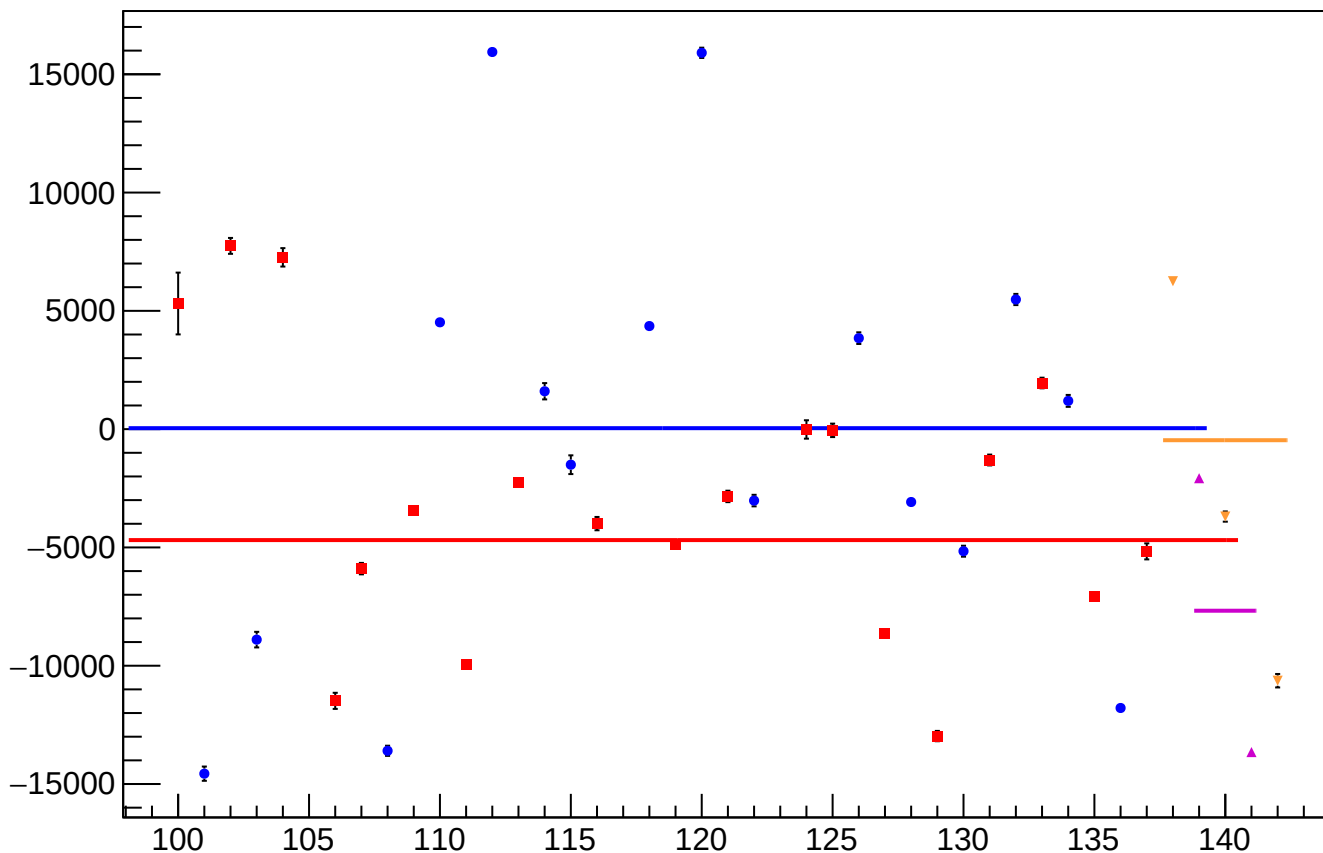
asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 363.471+/-0.099 χ^2/NDF : 780893.2/15
 Left Out: 270.276+/-0.134 χ^2/NDF :1464.3/2
 Right Out: 340.332+/-0.092 χ^2/NDF : 856230.3/18
 Left In: 257.238+/-0.139 χ^2/NDF :4891.3/1

Left: 263.980+/-0.097 χ^2/NDF : 10894.9/4
 Right: 351.006+/-0.067 χ^2/NDF : 1666529.8/34
 In: 327.752+/-0.081 χ^2/NDF :1172658.4/17
 Out: 318.114+/-0.076 χ^2/NDF :1043007.9/21
 All: 322.629+/-0.055 χ^2/NDF : 2223251.7/39

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 40.915+/-54.199 χ^2/NDF : 30786.3/15

Left Out: -467.950+/-126.390 χ^2/NDF : 2803.0/2

Right Out: -4689.710+/-52.095 χ^2/NDF : 7795.7/18

Left In: -7675.269+/-135.766 χ^2/NDF : 1815.7/1

Left: -3814.170+/-92.508 χ^2/NDF : 6128.4/4

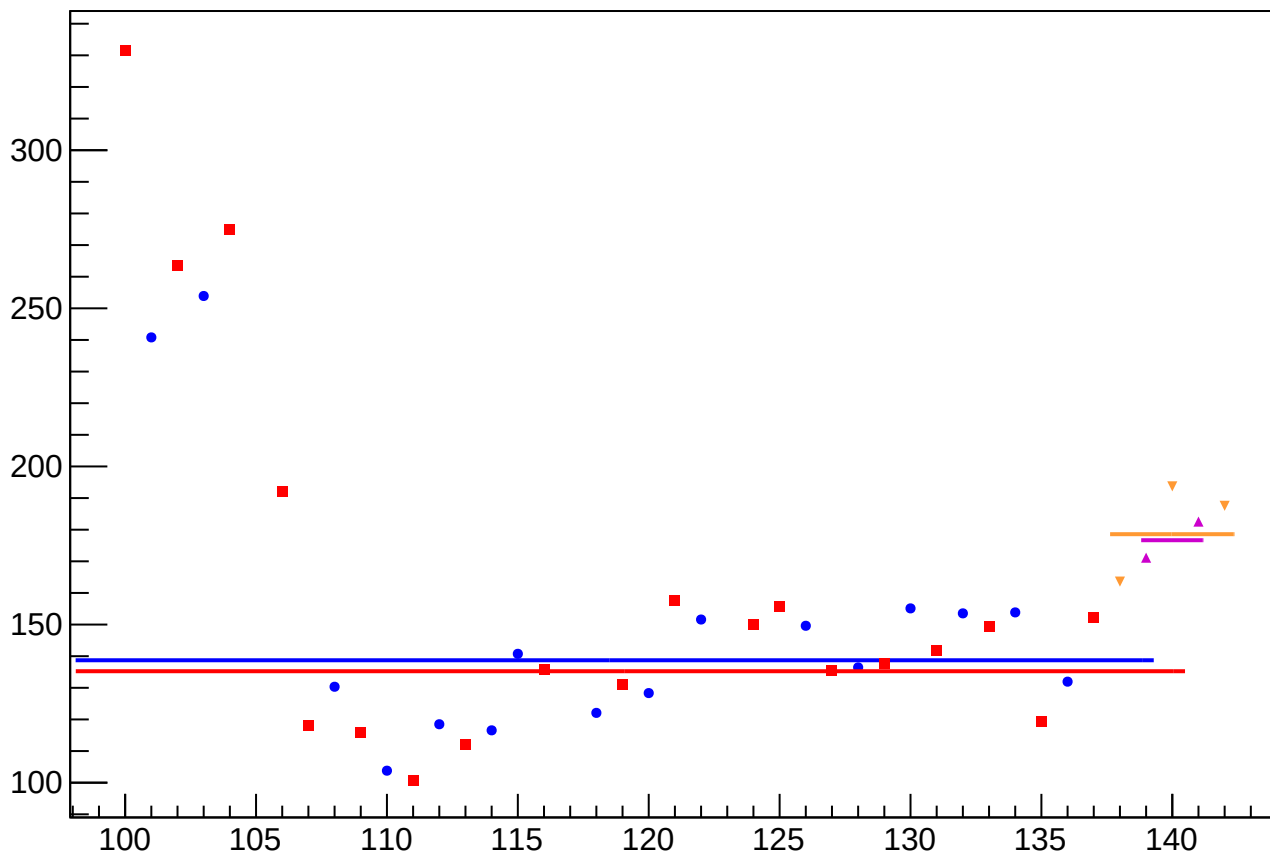
Right: -2417.983+/-37.558 χ^2/NDF : 42541.9/34

In: -1019.748+/-50.336 χ^2/NDF : 35388.1/17

Out: -4076.631+/-48.164 χ^2/NDF : 11552.4/21

All: -2615.558+/-34.800 χ^2/NDF : 48865.8/39

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 138.712 $\pm$ 0.038 χ^2/NDF : 657791.3/15

Left Out: 178.579 $\pm$ 0.089 χ^2/NDF :24749.8/2

Right Out: 135.245 $\pm$ 0.037 χ^2/NDF : 890024.8/18

Left In: 176.672 $\pm$ 0.096 χ^2/NDF :3527.2/1

Left: 177.694 $\pm$ 0.065 χ^2/NDF : 28488.4/4

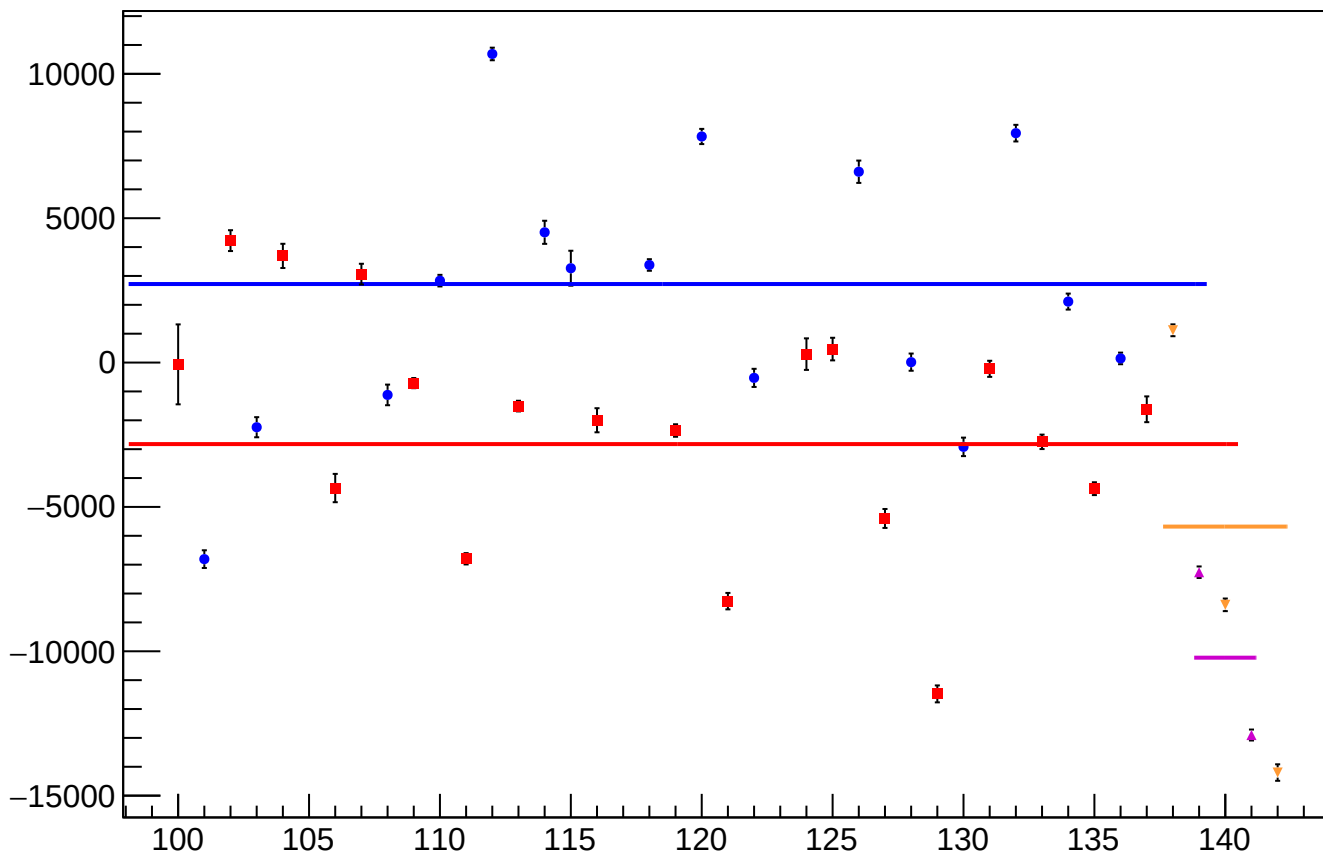
Right: 136.910 $\pm$ 0.027 χ^2/NDF : 1552069.4/34

In: 143.930 $\pm$ 0.036 χ^2/NDF :796178.7/17

Out: 141.538 $\pm$ 0.034 χ^2/NDF :1115740.1/21

All: 142.681 $\pm$ 0.025 χ^2/NDF : 1914276.2/39

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2719.896+/-69.247 χ^2/NDF : 4129.3/15

Left Out: -5681.114+/-132.562 χ^2/NDF :2138.5/2

Right Out: -2823.679+/-64.850 χ^2/NDF : 3062.8/18

Left In: -10221.655+/-137.394 χ^2/NDF :420.1/1

Left: -7870.144+/-95.398 χ^2/NDF : 3124.2/4

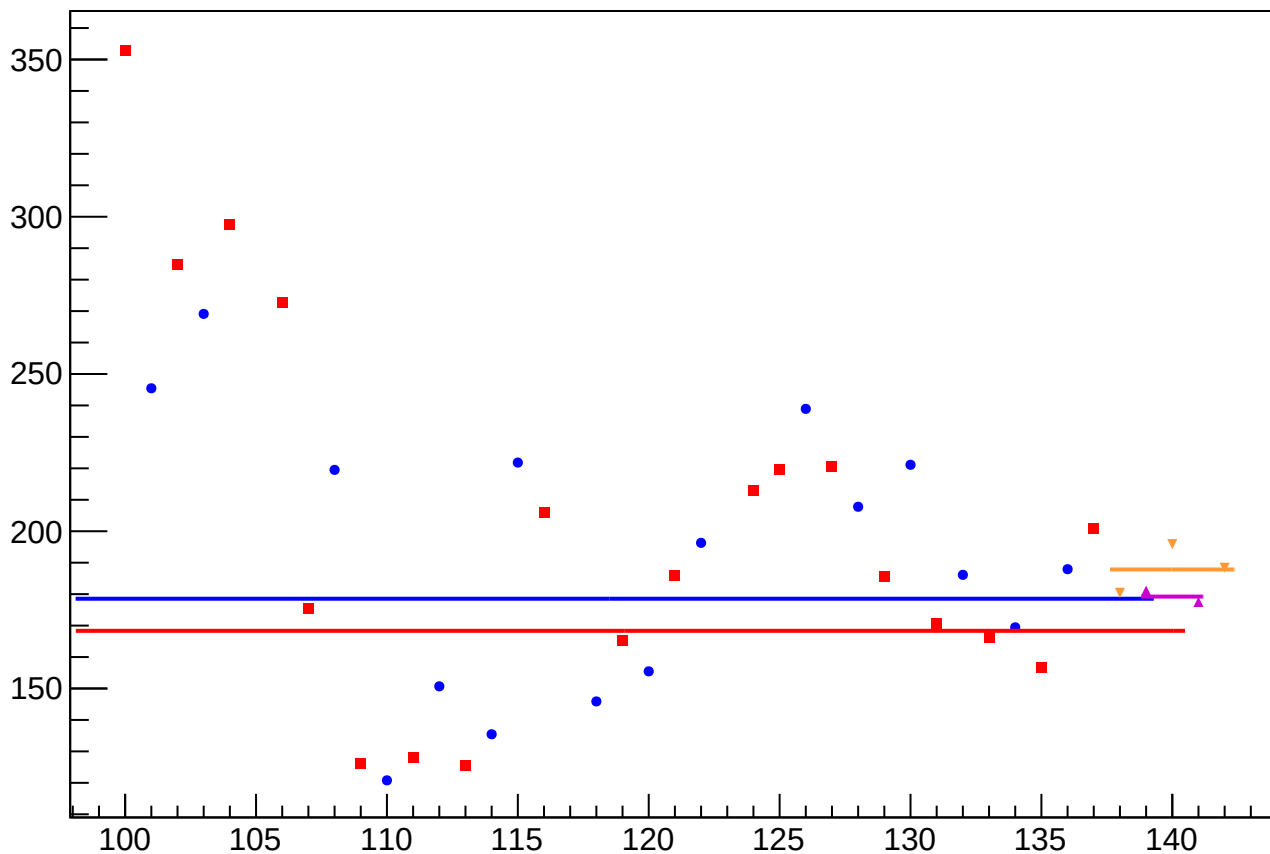
Right: -233.460+/-47.334 χ^2/NDF : 10606.3/34

In: 98.408+/-61.837 χ^2/NDF :11624.4/17

Out: -3375.469+/-58.253 χ^2/NDF :5576.2/21

All: -1742.111+/-42.402 χ^2/NDF : 18872.7/39

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.541+/-0.049 χ^2/NDF : 674566.0/15

Left Out: 187.837+/-0.094 χ^2/NDF : 5338.7/2

Right Out: 168.335+/-0.046 χ^2/NDF : 979485.9/18

Left In: 179.221+/-0.097 χ^2/NDF : 336.9/1

Left: 183.683+/-0.067 χ^2/NDF : 9749.5/4

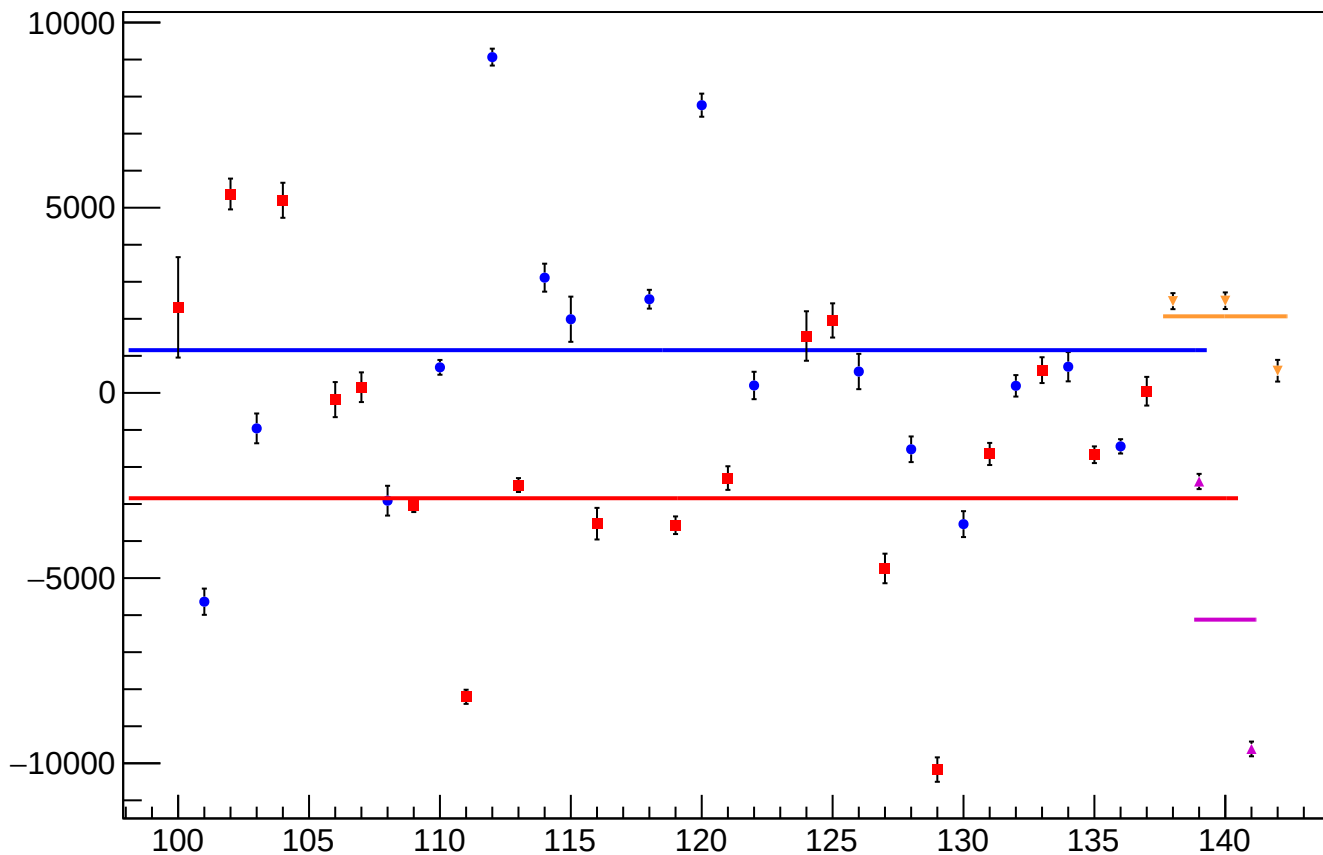
Right: 173.104+/-0.033 χ^2/NDF : 1677198.9/34

In: 178.679+/-0.044 χ^2/NDF : 674942.0/17

Out: 172.101+/-0.041 χ^2/NDF : 1019753.7/21

All: 175.194+/-0.030 χ^2/NDF : 1706686.2/39

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1153.823+/-75.957 χ^2/NDF : 2655.3/15

Left Out: 2067.370+/-137.548 χ^2/NDF :32.3/2

Right Out: -2843.895+/-69.139 χ^2/NDF : 2453.1/18

Left In: -6121.840+/-142.841 χ^2/NDF :638.2/1

Left: -1872.703+/-99.079 χ^2/NDF : 2375.9/4

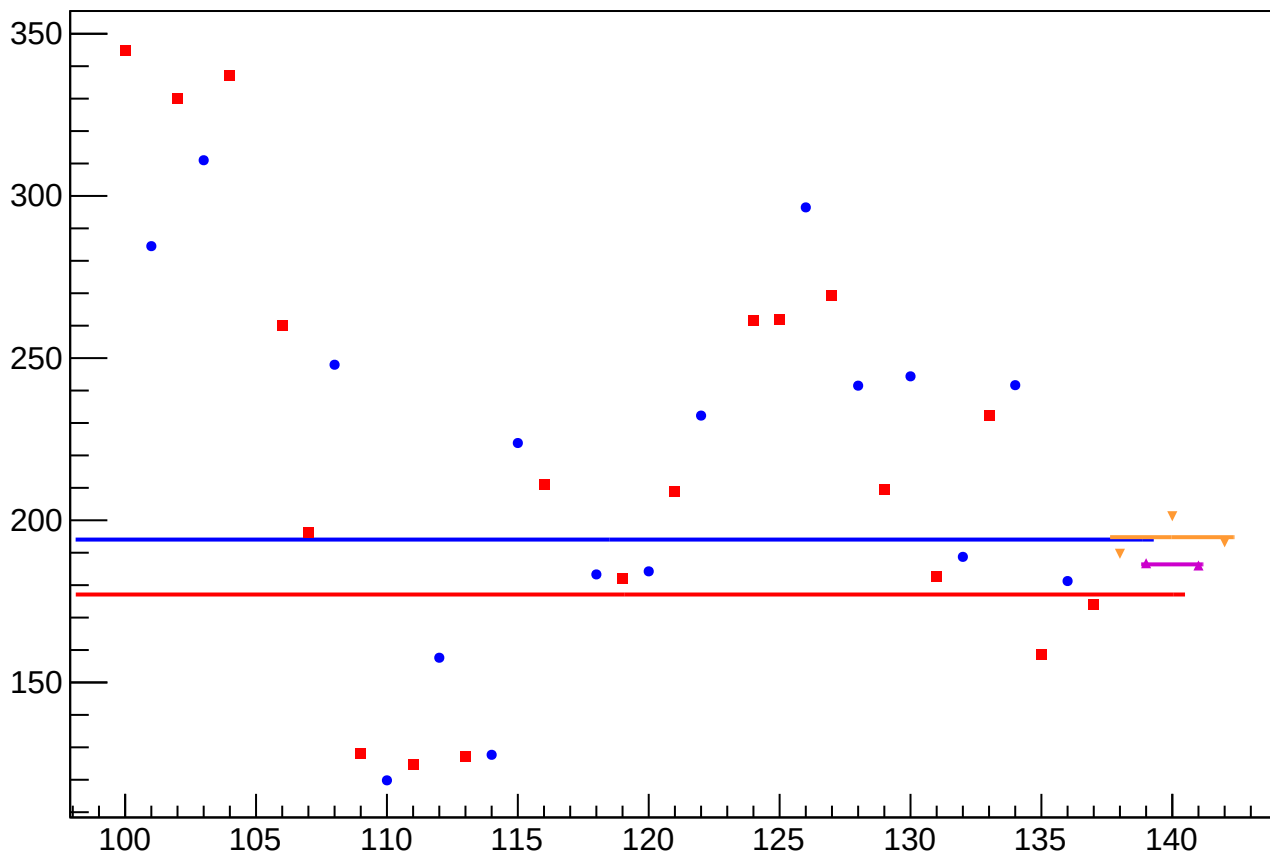
Right: -1032.468+/-51.129 χ^2/NDF : 6623.4/34

In: -449.992+/-67.064 χ^2/NDF :5316.0/17

Out: -1853.294+/-61.774 χ^2/NDF :3503.2/21

All: -1209.169+/-45.436 χ^2/NDF : 9056.1/39

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.053+/-0.054 χ^2/NDF : 965786.1/15

Left Out: 194.791+/-0.097 χ^2/NDF : 2828.8/2

Right Out: 177.115+/-0.049 χ^2/NDF : 1359345.8/18

Left In: 186.407+/-0.101 χ^2/NDF : 11.7/1

Left: 190.758+/-0.070 χ^2/NDF : 6416.0/4

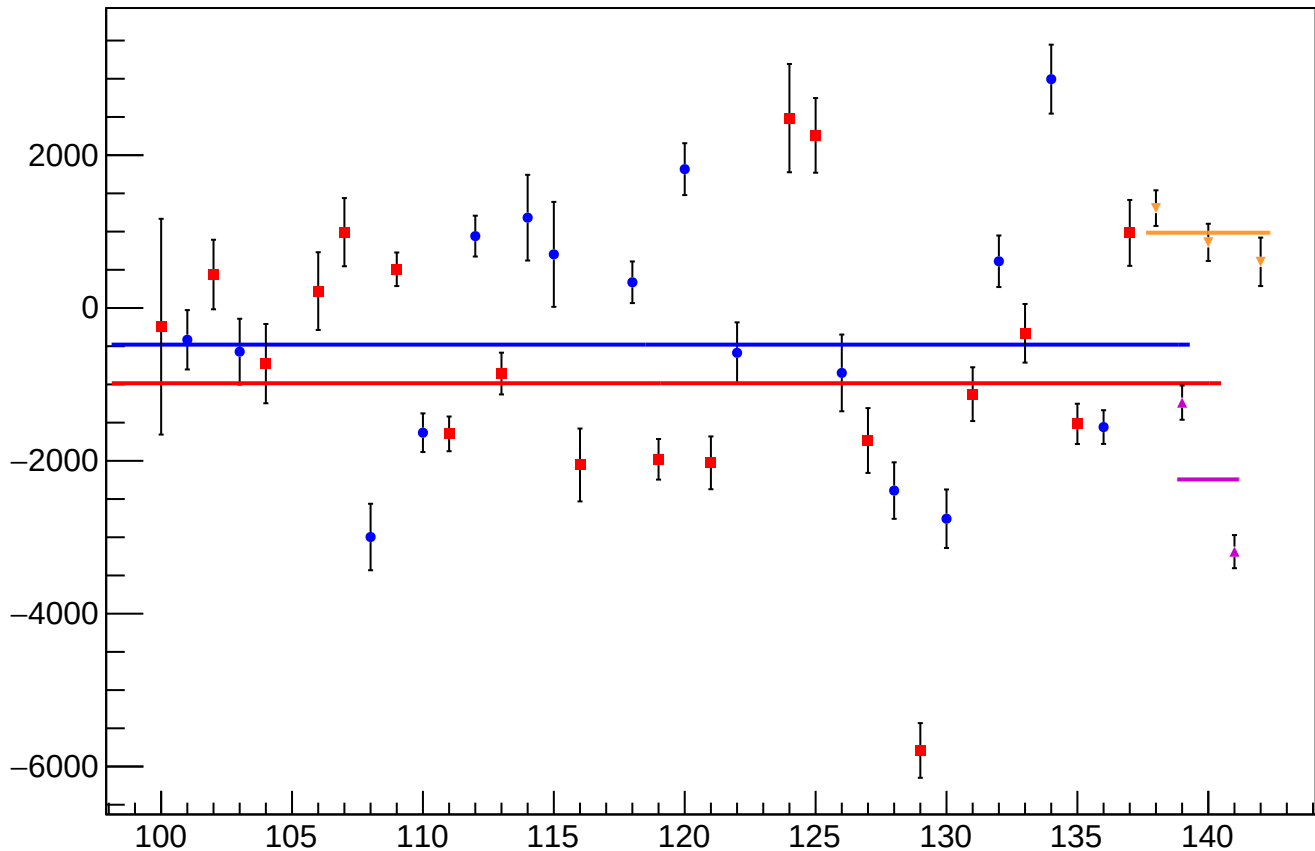
Right: 184.790+/-0.036 χ^2/NDF : 2379520.9/34

In: 192.368+/-0.047 χ^2/NDF : 970264.9/17

Out: 180.680+/-0.044 χ^2/NDF : 1388542.8/21

All: 186.045+/-0.032 χ^2/NDF : 2391666.6/39

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -479.302 ± 86.685 $\chi^2/\text{NDF}: 305.4/15$

Left Out: 985.291 ± 148.643 $\chi^2/\text{NDF}: 3.6/2$

Right Out: -984.498 ± 80.945 $\chi^2/\text{NDF}: 398.1/18$

Left In: -2243.328 ± 155.681 $\chi^2/\text{NDF}: 39.2/1$

Left: -554.393 ± 107.509 $\chi^2/\text{NDF}: 267.8/4$

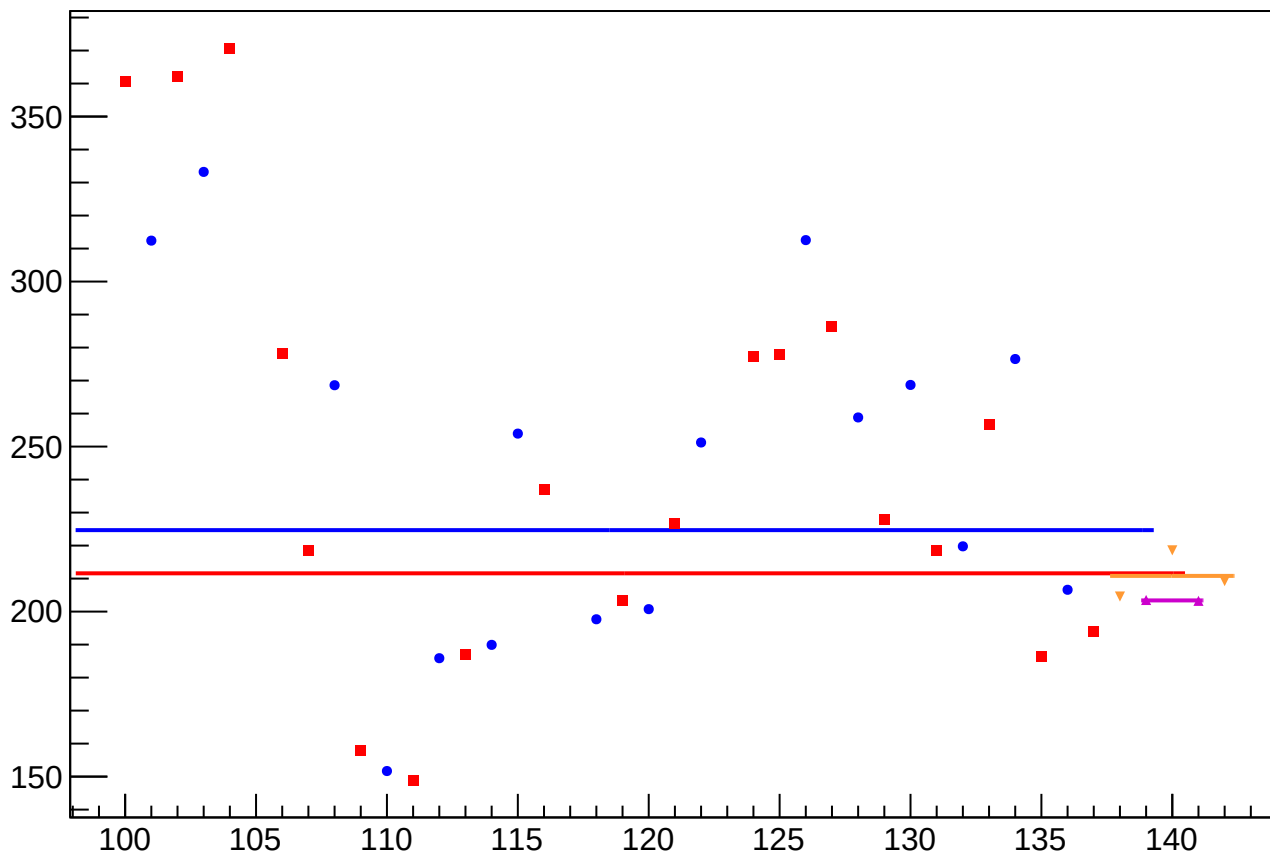
Right: -749.177 ± 59.162 $\chi^2/\text{NDF}: 721.7/34$

In: -896.783 ± 75.736 $\chi^2/\text{NDF}: 442.6/17$

Out: -533.966 ± 71.088 $\chi^2/\text{NDF}: 537.2/21$

All: -703.901 ± 51.832 $\chi^2/\text{NDF}: 992.0/39$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 224.683+/-0.061 χ^2/NDF : 653193.4/15

Left Out: 210.816+/-0.105 χ^2/NDF : 3515.4/2

Right Out: 211.595+/-0.057 χ^2/NDF : 932902.5/18

Left In: 203.386+/-0.110 χ^2/NDF : 1.4/1

Left: 207.272+/-0.076 χ^2/NDF : 5899.8/4

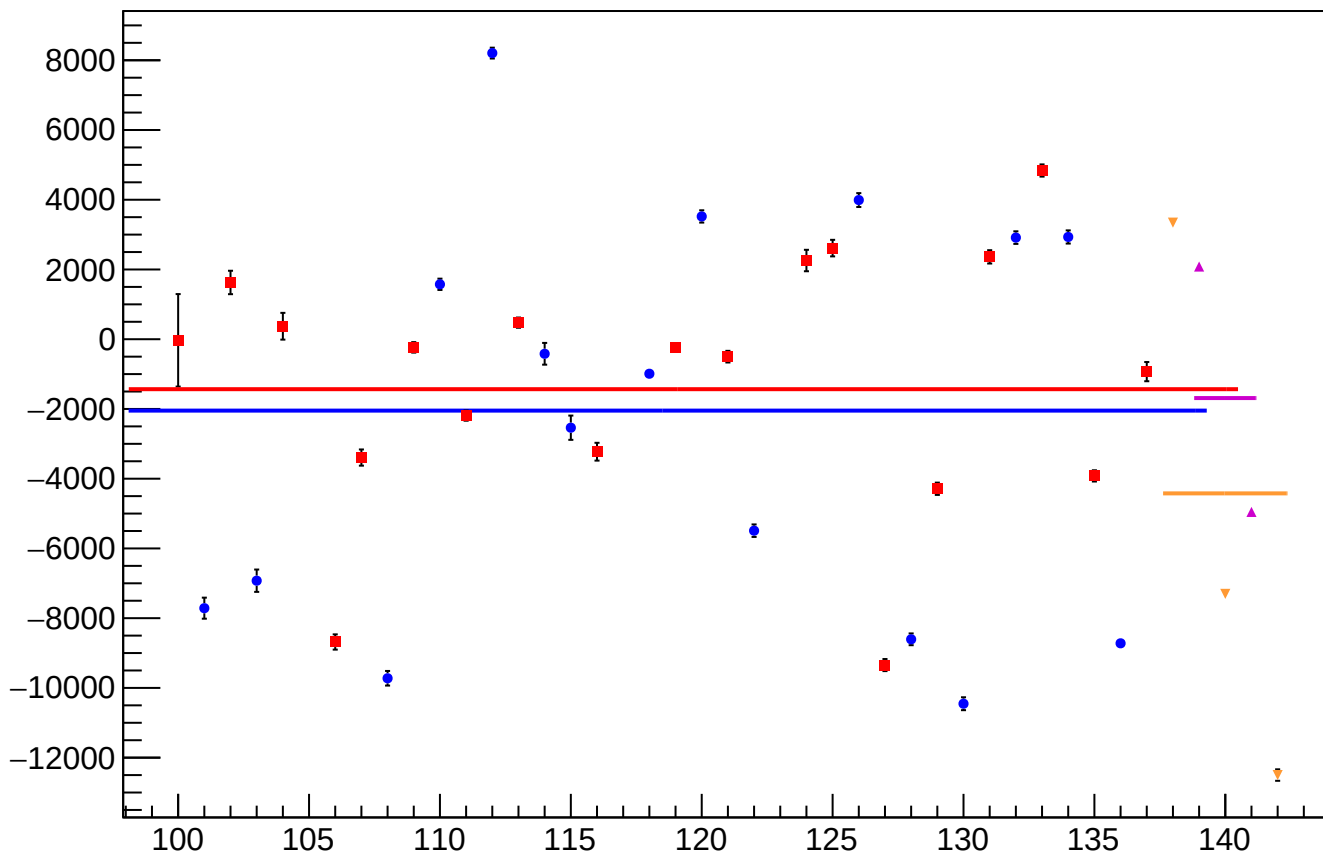
Right: 217.691+/-0.042 χ^2/NDF : 1610450.2/34

In: 219.642+/-0.054 χ^2/NDF : 681764.9/17

Out: 211.417+/-0.050 χ^2/NDF : 936460.3/21

All: 215.269+/-0.037 χ^2/NDF : 1630767.6/39

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2047.267 ± 46.722 $\chi^2/\text{NDF}: 16709.1/15$

Left Out: -4421.226 ± 78.910 $\chi^2/\text{NDF}: 6631.2/2$

Right Out: -1432.909 ± 44.729 $\chi^2/\text{NDF}: 6387.8/18$

Left In: -1687.601 ± 86.208 $\chi^2/\text{NDF}: 1657.2/1$

Left: -3175.001 ± 58.207 $\chi^2/\text{NDF}: 8835.5/4$

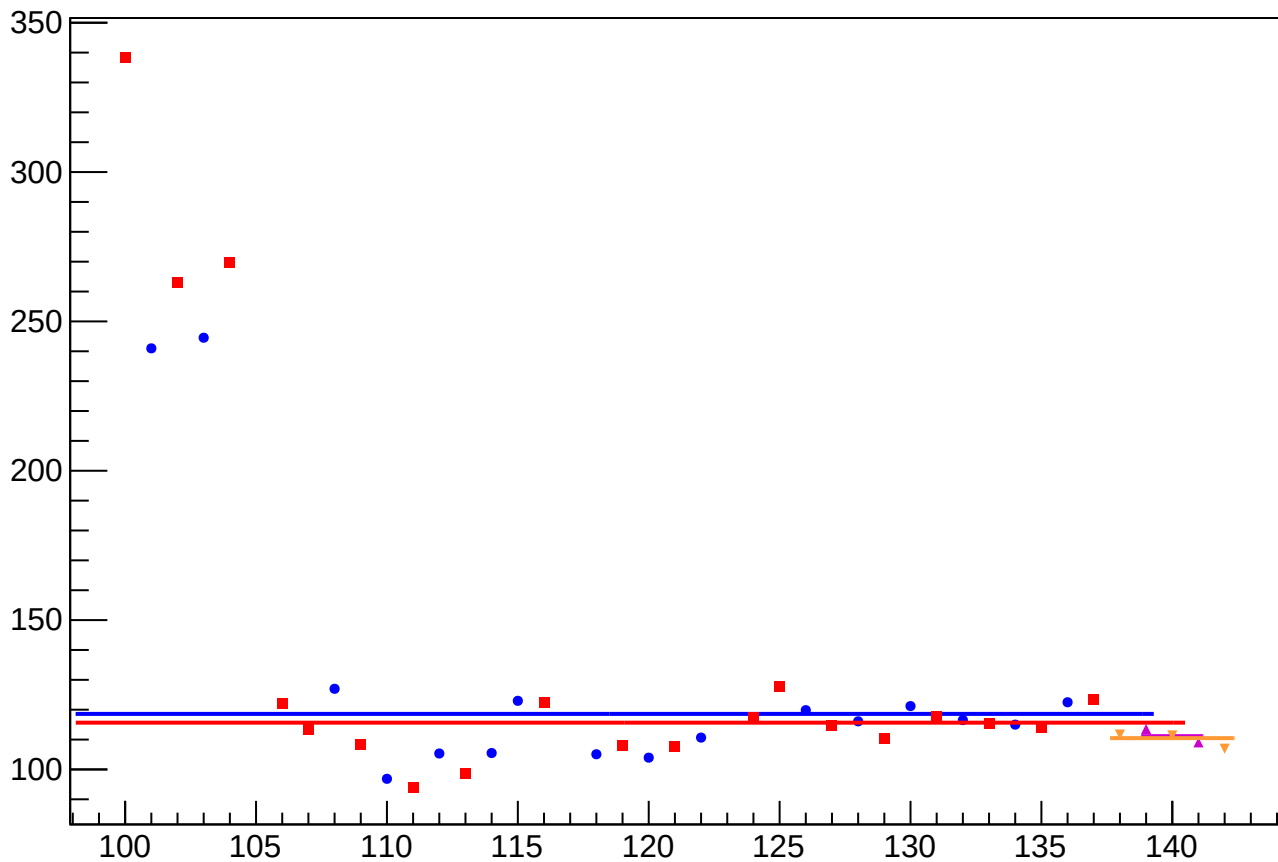
Right: -1726.707 ± 32.310 $\chi^2/\text{NDF}: 23187.1/34$

In: -1965.608 ± 41.077 $\chi^2/\text{NDF}: 18379.8/17$

Out: -2159.588 ± 38.912 $\chi^2/\text{NDF}: 14104.4/21$

All: -2067.843 ± 28.249 $\chi^2/\text{NDF}: 32495.9/39$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 118.596 ± 0.033 $\chi^2/\text{NDF}: 734158.7/15$

Left Out: 110.481 ± 0.056 $\chi^2/\text{NDF}: 1207.3/2$

Right Out: 115.660 ± 0.032 $\chi^2/\text{NDF}: 864206.3/18$

Left In: 111.146 ± 0.061 $\chi^2/\text{NDF}: 1344.8/1$

Left: 110.784 ± 0.041 $\chi^2/\text{NDF}: 2616.8/4$

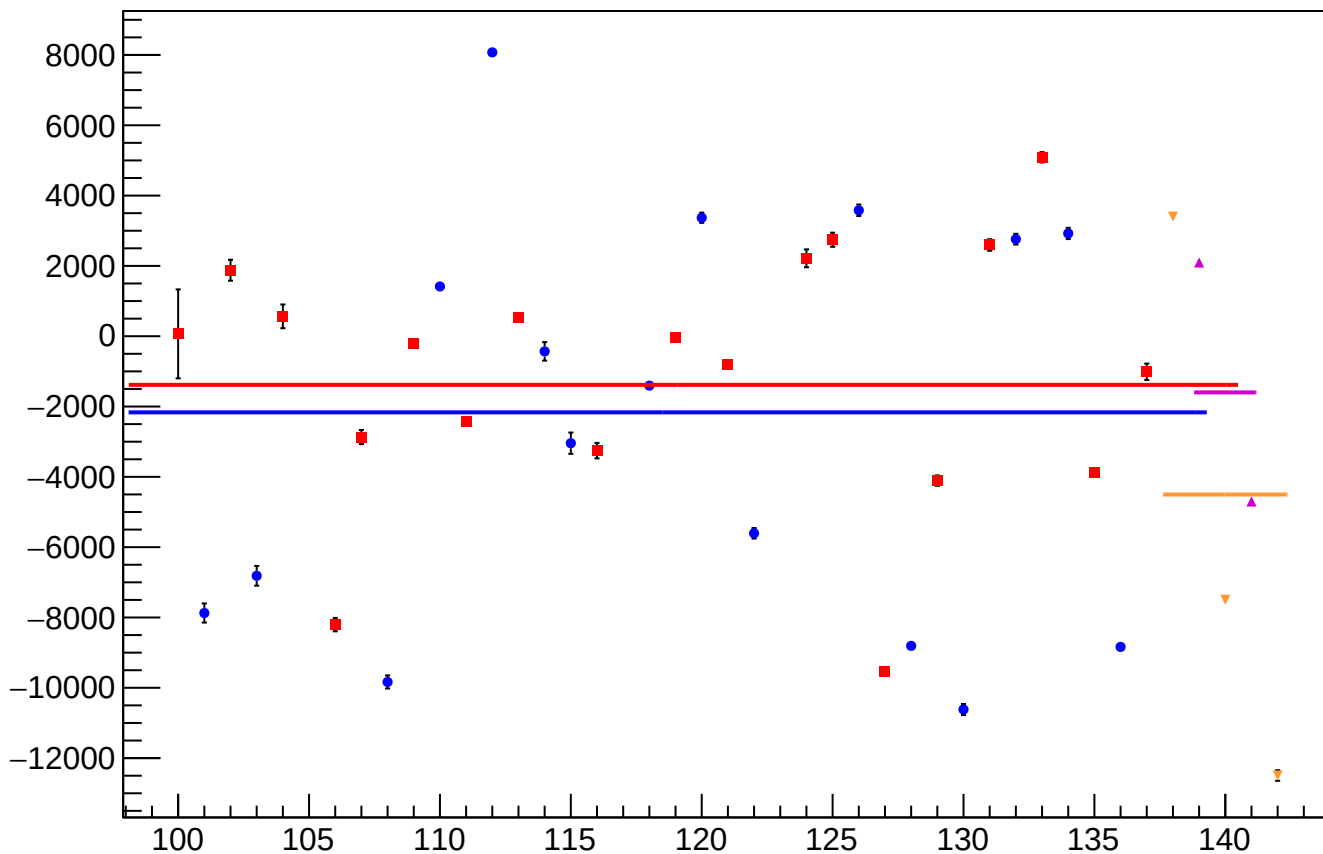
Right: 117.064 ± 0.023 $\chi^2/\text{NDF}: 1602486.6/34$

In: 116.904 ± 0.029 $\chi^2/\text{NDF}: 747049.3/17$

Out: 114.400 ± 0.028 $\chi^2/\text{NDF}: 871933.5/21$

All: 115.585 ± 0.020 $\chi^2/\text{NDF}: 1622900.1/39$

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2165.877+/-39.632 χ^2/NDF : 22874.8/15

Left Out: -4502.827+/-71.486 χ^2/NDF : 8139.7/2

Right Out: -1383.103+/-37.976 χ^2/NDF : 9148.6/18

Left In: -1598.164+/-78.658 χ^2/NDF : 1852.5/1

Left: -3188.926+/-52.903 χ^2/NDF : 10739.1/4

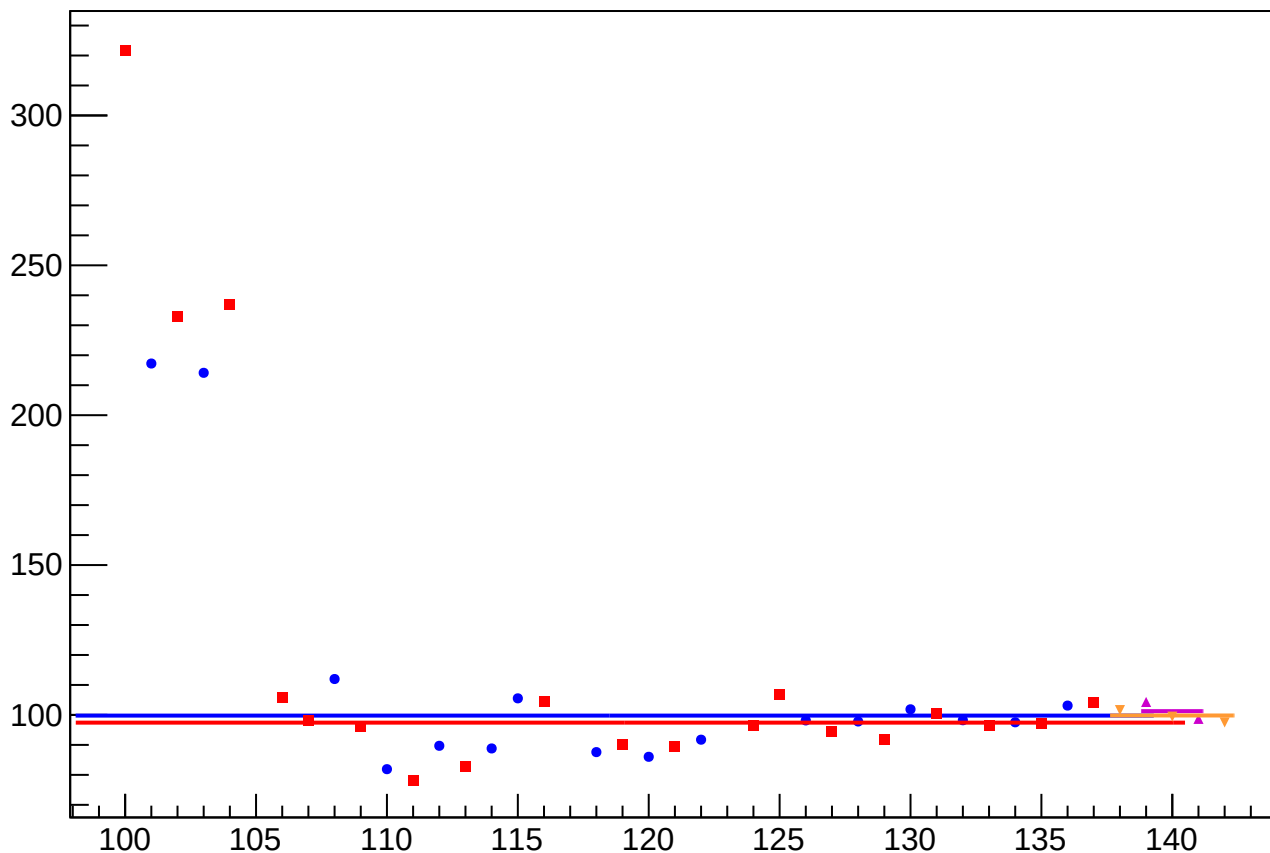
Right: -1757.793+/-27.420 χ^2/NDF : 32226.8/34

In: -2050.935+/-35.393 χ^2/NDF : 24768.9/17

Out: -2069.736+/-33.537 χ^2/NDF : 18773.7/21

All: -2060.841+/-24.344 χ^2/NDF : 43542.7/39

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 99.775+/-0.028 χ^2/NDF : 809152.9/15

Left Out: 99.813+/-0.051 χ^2/NDF :976.6/2

Right Out: 97.428+/-0.027 χ^2/NDF : 926047.7/18

Left In: 101.262+/-0.056 χ^2/NDF :2555.3/1

Left: 100.468+/-0.037 χ^2/NDF : 3903.6/4

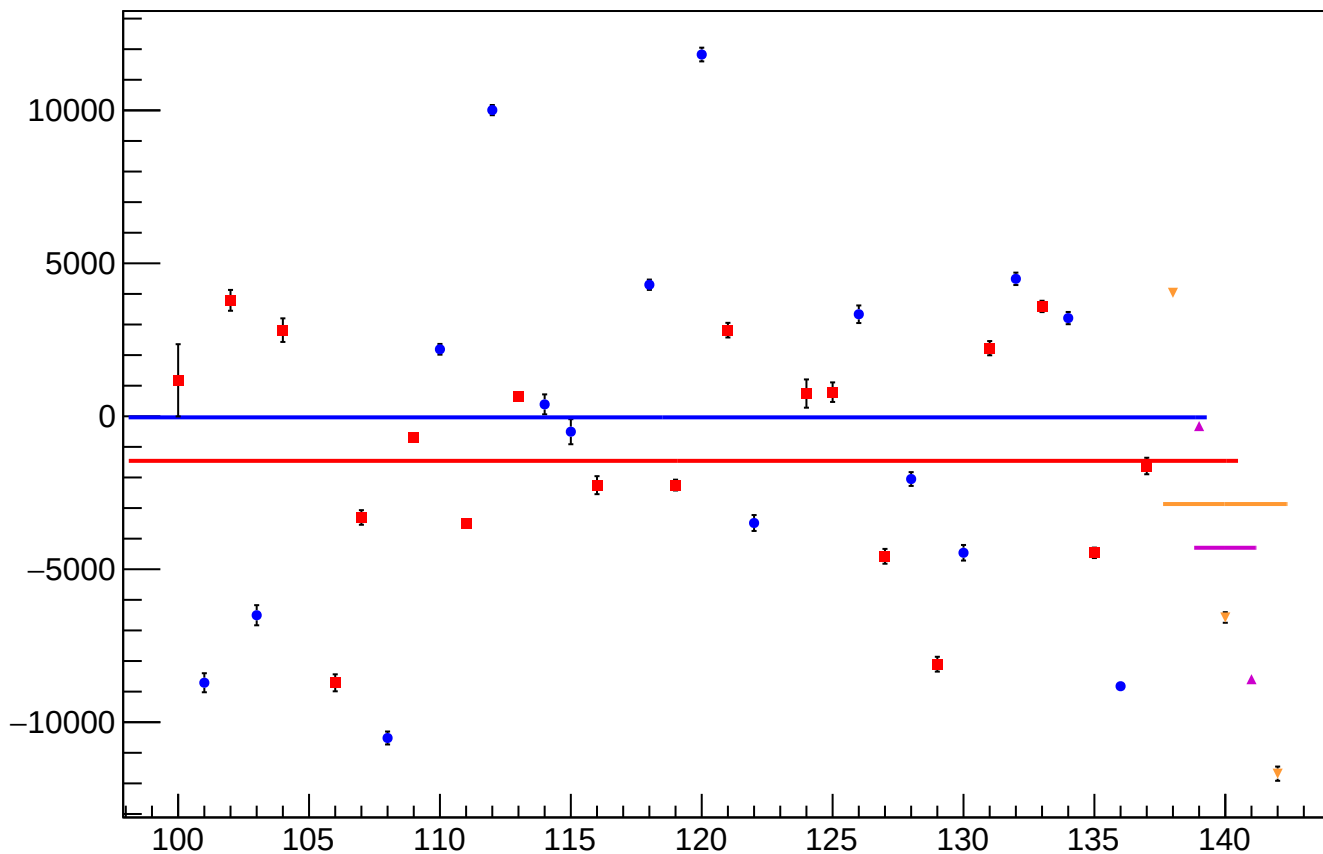
Right: 98.551+/-0.019 χ^2/NDF : 1738857.3/34

In: 100.076+/-0.025 χ^2/NDF :812278.4/17

Out: 97.952+/-0.024 χ^2/NDF :928760.8/21

All: 98.957+/-0.017 χ^2/NDF : 1744831.5/39

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -34.667 ± 53.465 $\chi^2/\text{NDF}: 16802.8/15$

Left Out: -2868.248 ± 103.404 $\chi^2/\text{NDF}: 3877.2/2$

Right Out: -1456.665 ± 51.946 $\chi^2/\text{NDF}: 4117.0/18$

Left In: -4297.752 ± 114.633 $\chi^2/\text{NDF}: 1300.5/1$

Left: -3509.574 ± 76.781 $\chi^2/\text{NDF}: 5263.4/4$

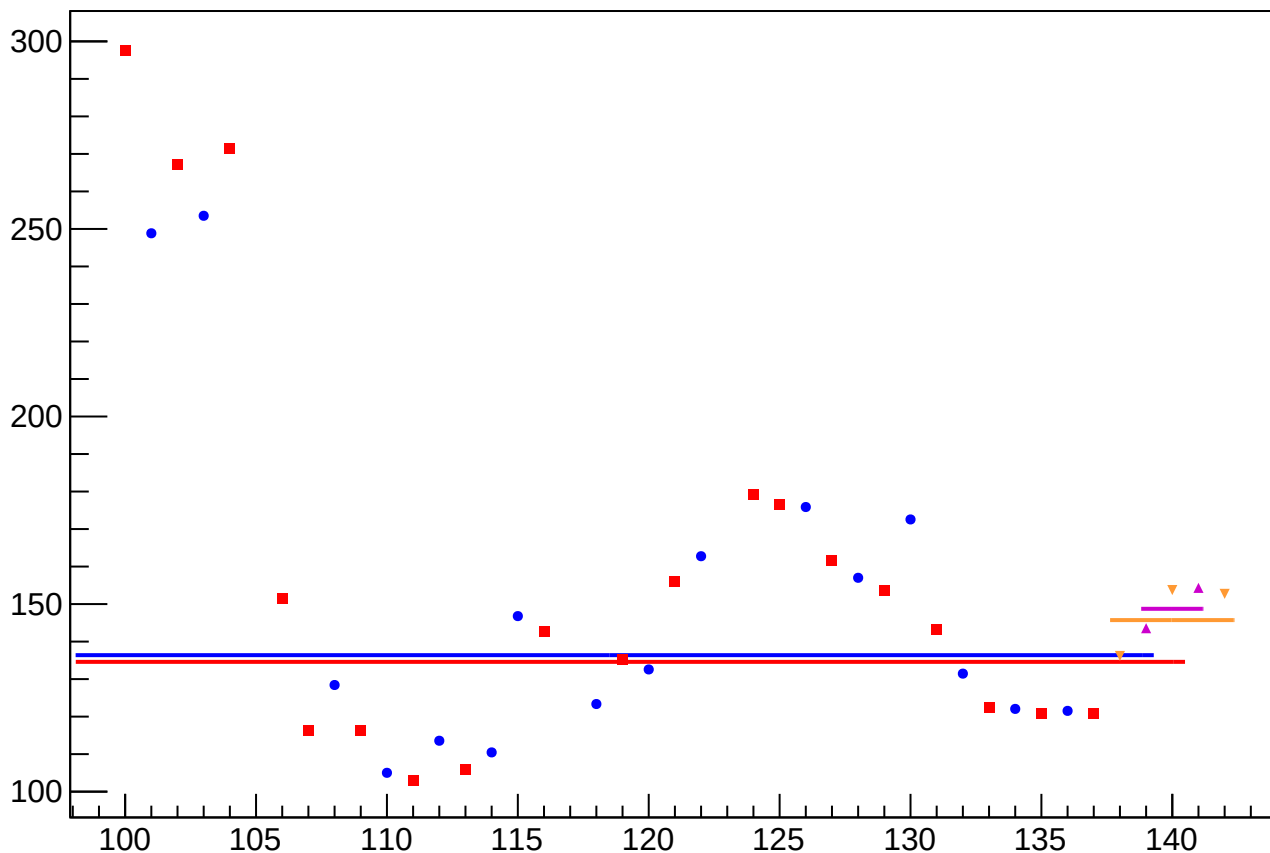
Right: -766.160 ± 37.257 $\chi^2/\text{NDF}: 21283.7/34$

In: -796.340 ± 48.454 $\chi^2/\text{NDF}: 19239.2/17$

Out: -1741.113 ± 46.418 $\chi^2/\text{NDF}: 8143.0/21$

All: -1288.996 ± 33.519 $\chi^2/\text{NDF}: 27580.4/39$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 136.383+/-0.038 χ^2/NDF : 796855.7/15

Left Out: 145.729+/-0.073 χ^2/NDF :13700.7/2

Right Out: 134.598+/-0.037 χ^2/NDF : 919605.2/18

Left In: 148.740+/-0.081 χ^2/NDF :4398.4/1

Left: 147.080+/-0.054 χ^2/NDF : 18859.7/4

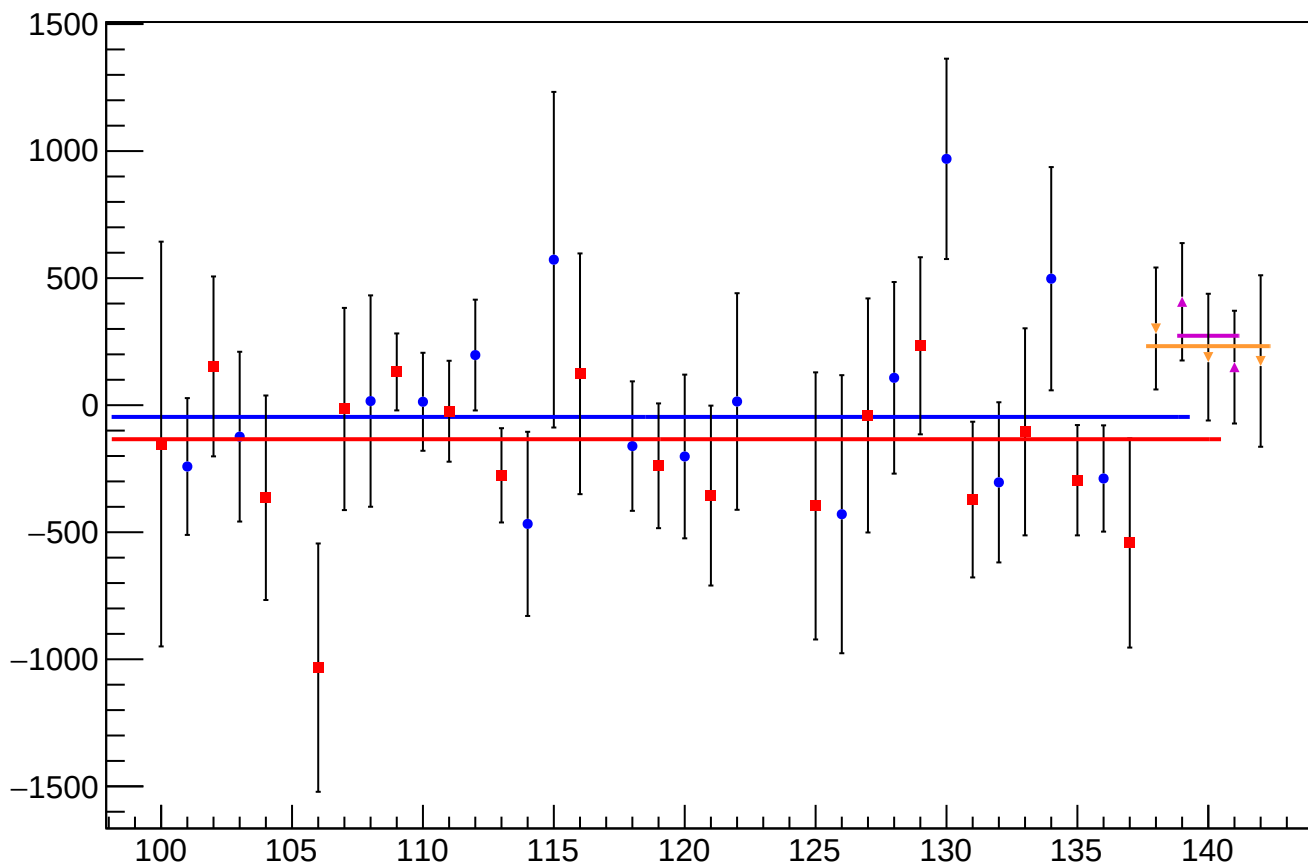
Right: 135.465+/-0.026 χ^2/NDF : 1717607.6/34

In: 138.591+/-0.034 χ^2/NDF :820340.3/17

Out: 136.841+/-0.033 χ^2/NDF :951810.6/21

All: 137.679+/-0.024 χ^2/NDF : 1773510.7/39

asym_bcm_2an_us_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -46.199 ± 76.283 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 232.290 ± 153.894 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -133.913 ± 68.414 $\chi^2/\text{NDF}: 12.8/17$

Left In: 273.160 ± 160.024 $\chi^2/\text{NDF}: 0.6/1$

Left: 251.927 ± 110.923 $\chi^2/\text{NDF}: 0.8/4$

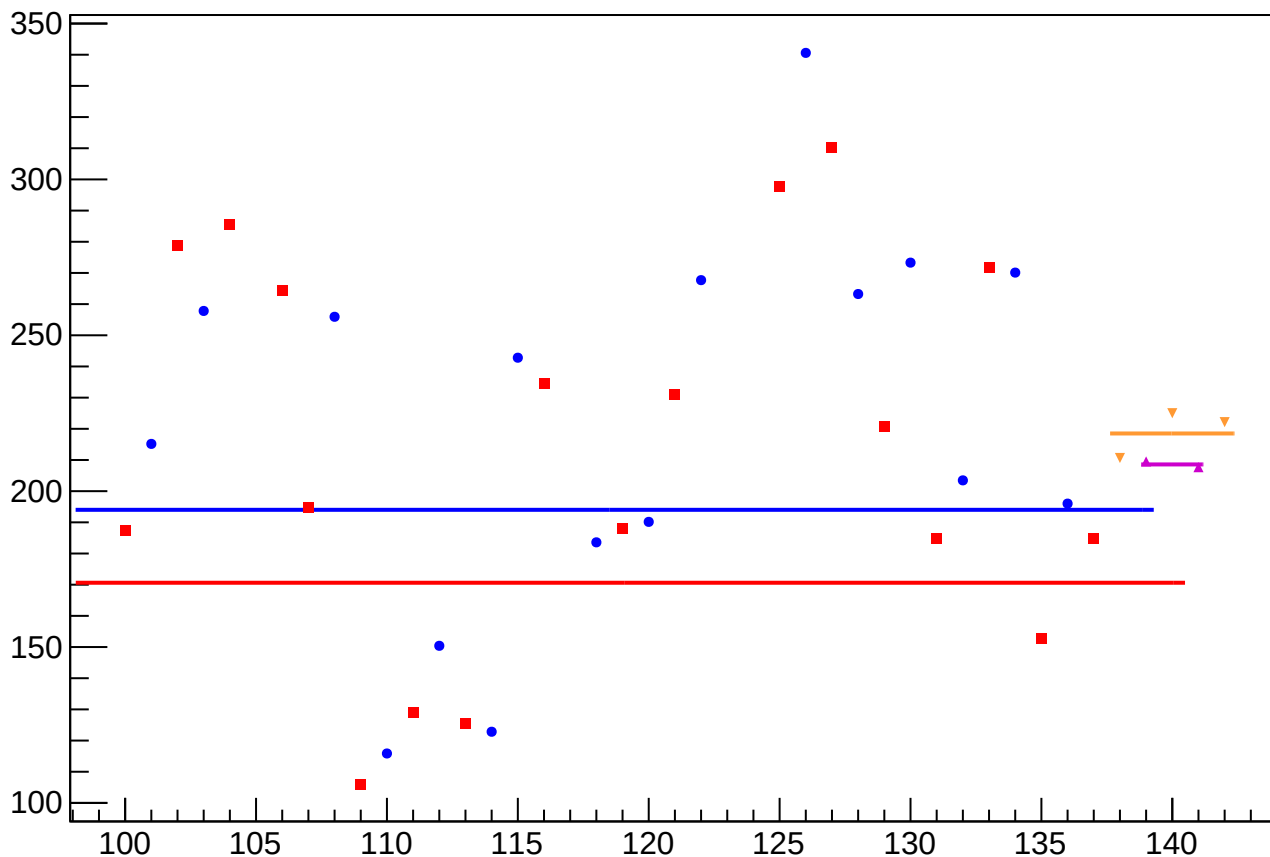
Right: -94.812 ± 50.931 $\chi^2/\text{NDF}: 29.0/33$

In: 12.935 ± 68.859 $\chi^2/\text{NDF}: 19.4/17$

Out: -73.485 ± 62.515 $\chi^2/\text{NDF}: 17.7/20$

All: -34.439 ± 46.285 $\chi^2/\text{NDF}: 37.9/38$

asym_bcm_2an_us_an_ds_avg_rms vs Slug, Sign Corrected



Right In: 194.017+/-0.054 χ^2/NDF : 1043588.7/15

Left Out: 218.505+/-0.109 χ^2/NDF :3735.0/2

Right Out: 170.624+/-0.048 χ^2/NDF : 1593735.4/17

Left In: 208.576+/-0.113 χ^2/NDF :66.3/1

Left: 213.734+/-0.078 χ^2/NDF : 7801.6/4

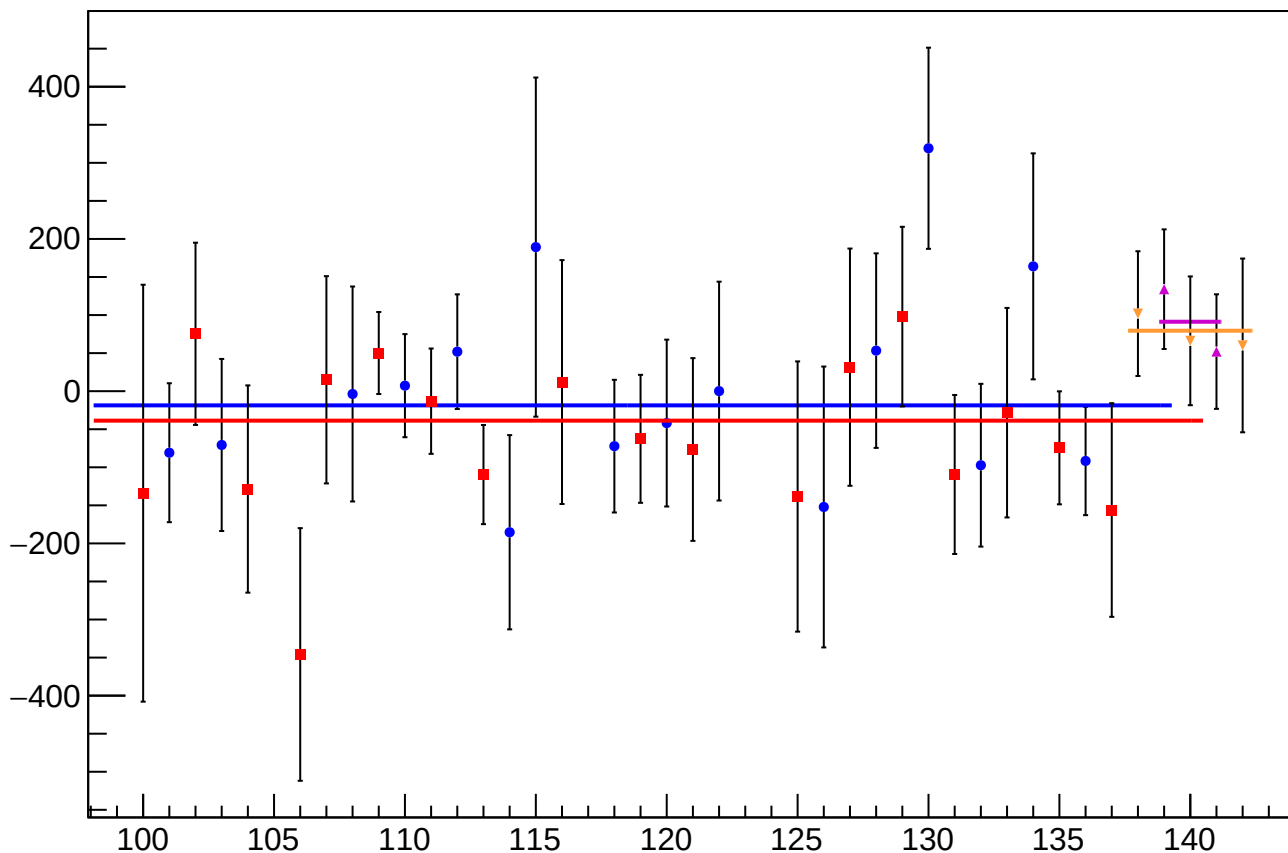
Right: 181.052+/-0.036 χ^2/NDF : 2741566.5/33

In: 196.713+/-0.049 χ^2/NDF :1057144.2/17

Out: 178.525+/-0.044 χ^2/NDF :1759128.9/20

All: 186.742+/-0.033 χ^2/NDF : 2892762.1/38

asym_bcm_2an_us_an_ds_dd_mean vs Slug, Sign Corrected



Right In: -18.645 ± 26.122 χ^2/NDF : 15.2/15

Left Out: 79.446 ± 52.315 χ^2/NDF : 0.1/2

Right Out: -38.716 ± 23.652 χ^2/NDF : 12.6/17

Left In: 91.233 ± 54.348 χ^2/NDF : 0.6/1

Left: 85.115 ± 37.691 χ^2/NDF : 0.7/4

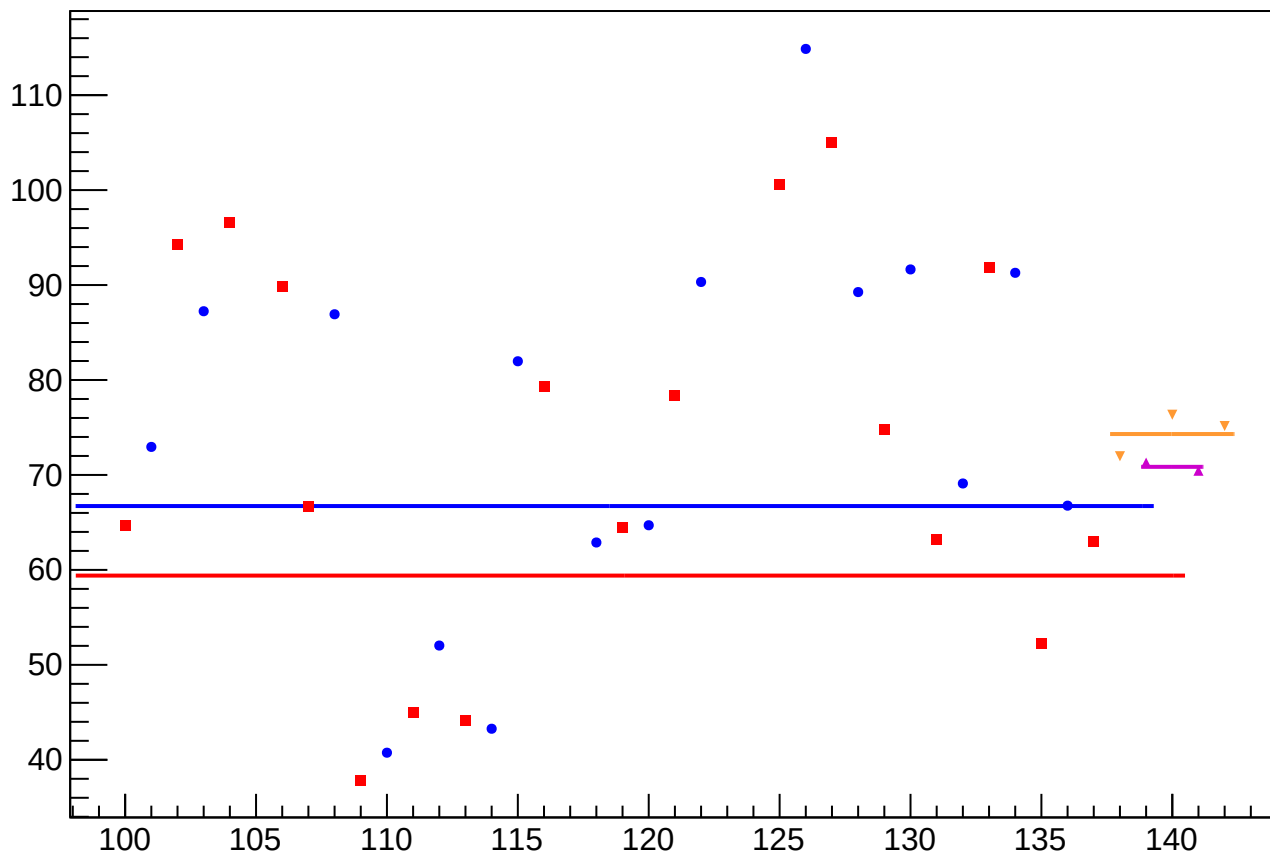
Right: -29.674 ± 17.533 χ^2/NDF : 28.2/33

In: 1.976 ± 23.544 χ^2/NDF : 19.1/17

Out: -18.663 ± 21.552 χ^2/NDF : 17.0/20

All: -9.254 ± 15.897 χ^2/NDF : 36.5/38

asym_bcm_2an_us_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 66.724 $\pm$ 0.018 χ^2/NDF : 947040.2/15

Left Out: 74.309 $\pm$ 0.037 χ^2/NDF : 2893.9/2

Right Out: 59.400 $\pm$ 0.017 χ^2/NDF : 1445371.1/17

Left In: 70.854 $\pm$ 0.038 χ^2/NDF : 123.0/1

Left: 72.647 $\pm$ 0.027 χ^2/NDF : 7213.7/4

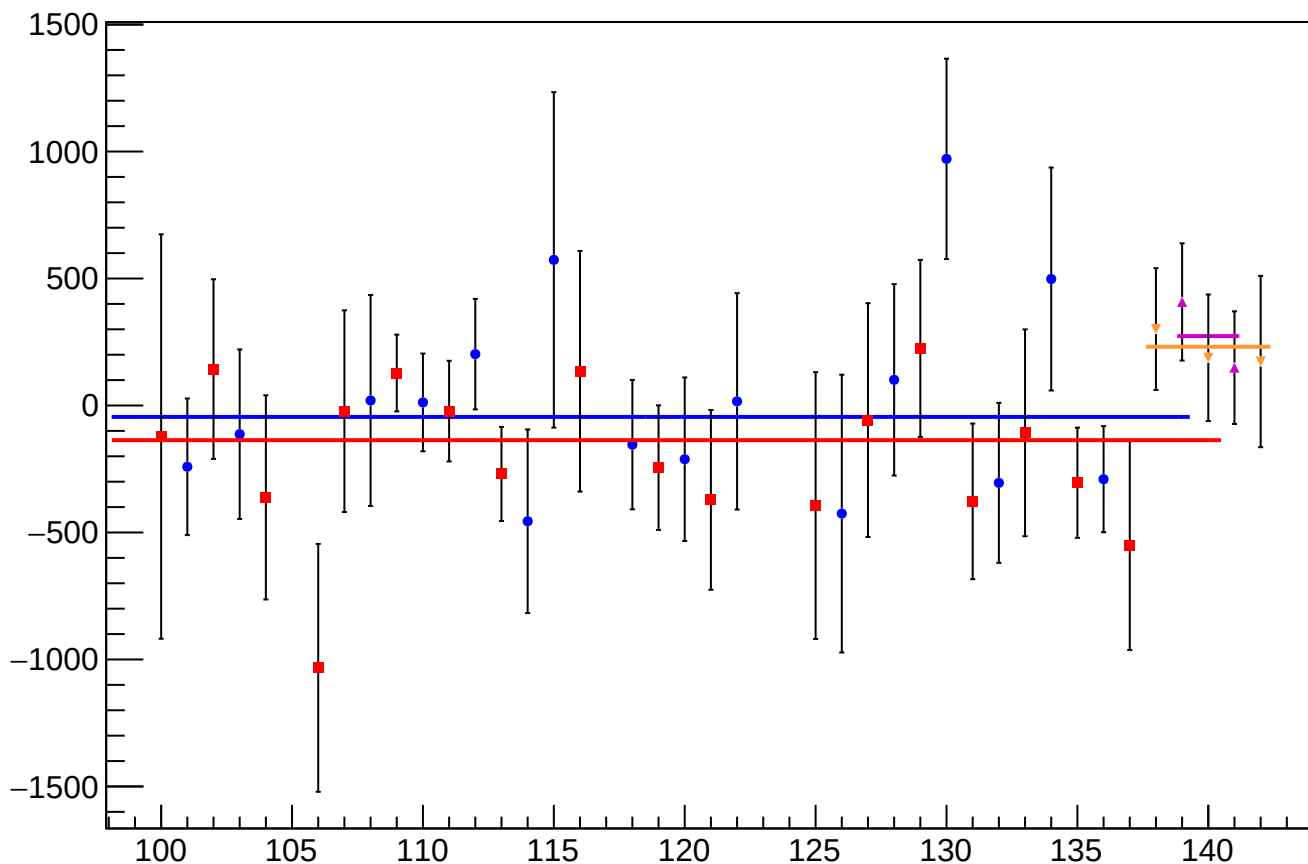
Right: 62.700 $\pm$ 0.012 χ^2/NDF : 2478799.5/33

In: 67.499 $\pm$ 0.017 χ^2/NDF : 956542.1/17

Out: 61.931 $\pm$ 0.015 χ^2/NDF : 1583126.7/20

All: 64.469 $\pm$ 0.011 χ^2/NDF : 2600543.0/38

asym_bcm_an_us_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -44.917 ± 76.198 χ^2/NDF : 15.5/15

Left Out: 231.376 ± 153.761 χ^2/NDF : 0.1/2

Right Out: -136.579 ± 68.322 χ^2/NDF : 12.9/17

Left In: 273.267 ± 159.901 χ^2/NDF : 0.7/1

Left: 251.502 ± 110.833 χ^2/NDF : 0.8/4

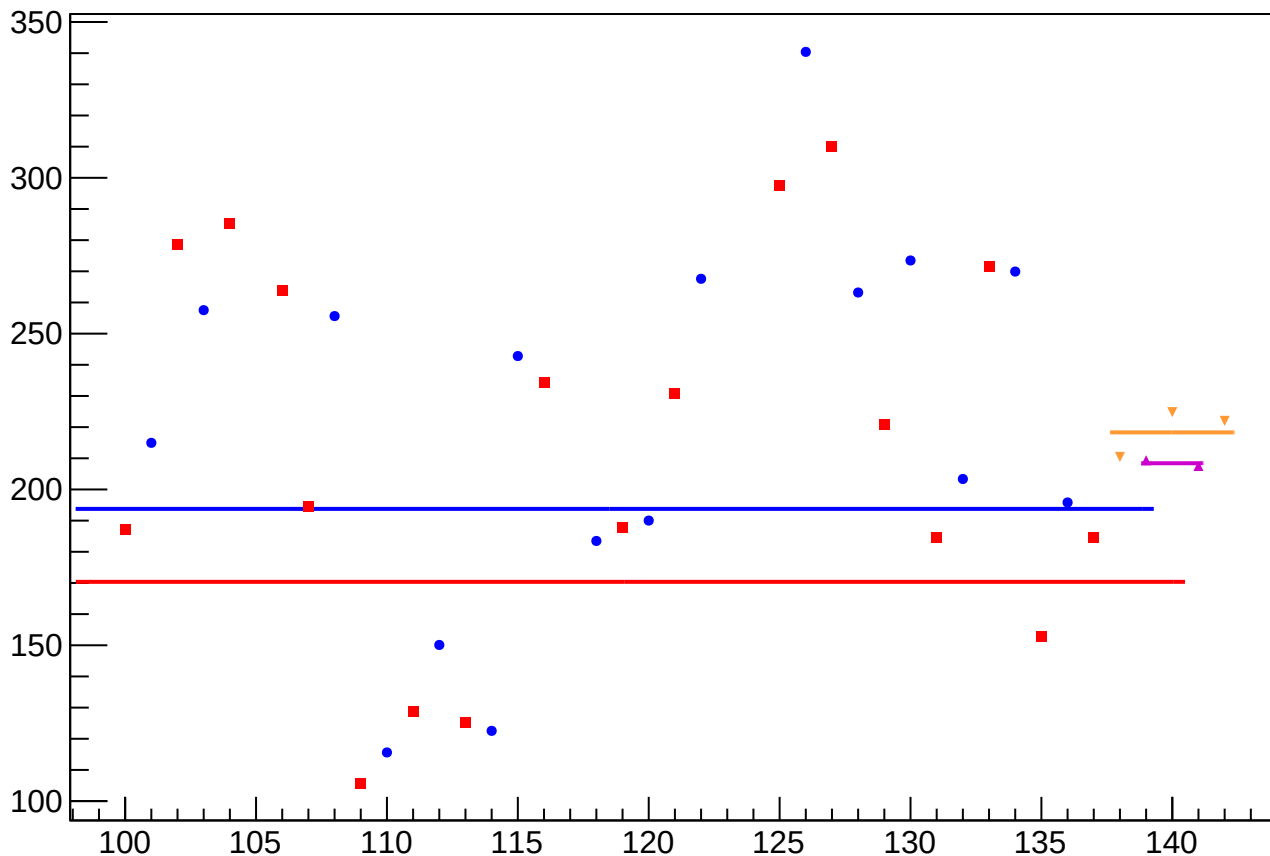
Right: -95.728 ± 50.868 χ^2/NDF : 29.1/33

In: 13.966 ± 68.787 χ^2/NDF : 19.3/17

Out: -75.909 ± 62.436 χ^2/NDF : 17.8/20

All: -35.311 ± 46.232 χ^2/NDF : 38.1/38

asym_bcm_an_us_an_ds_avg_rms vs Slug, Sign Corrected



Right In: 193.768 $\pm$ 0.054 χ^2 /NDF: 1048095.1/15

Left Out: 218.316 $\pm$ 0.109 χ^2 /NDF:3752.7/2

Right Out: 170.358 $\pm$ 0.048 χ^2 /NDF: 1599025.1/17

Left In: 208.414 $\pm$ 0.113 χ^2 /NDF:64.8/1

Left: 213.559 $\pm$ 0.078 χ^2 /NDF: 7801.9/4

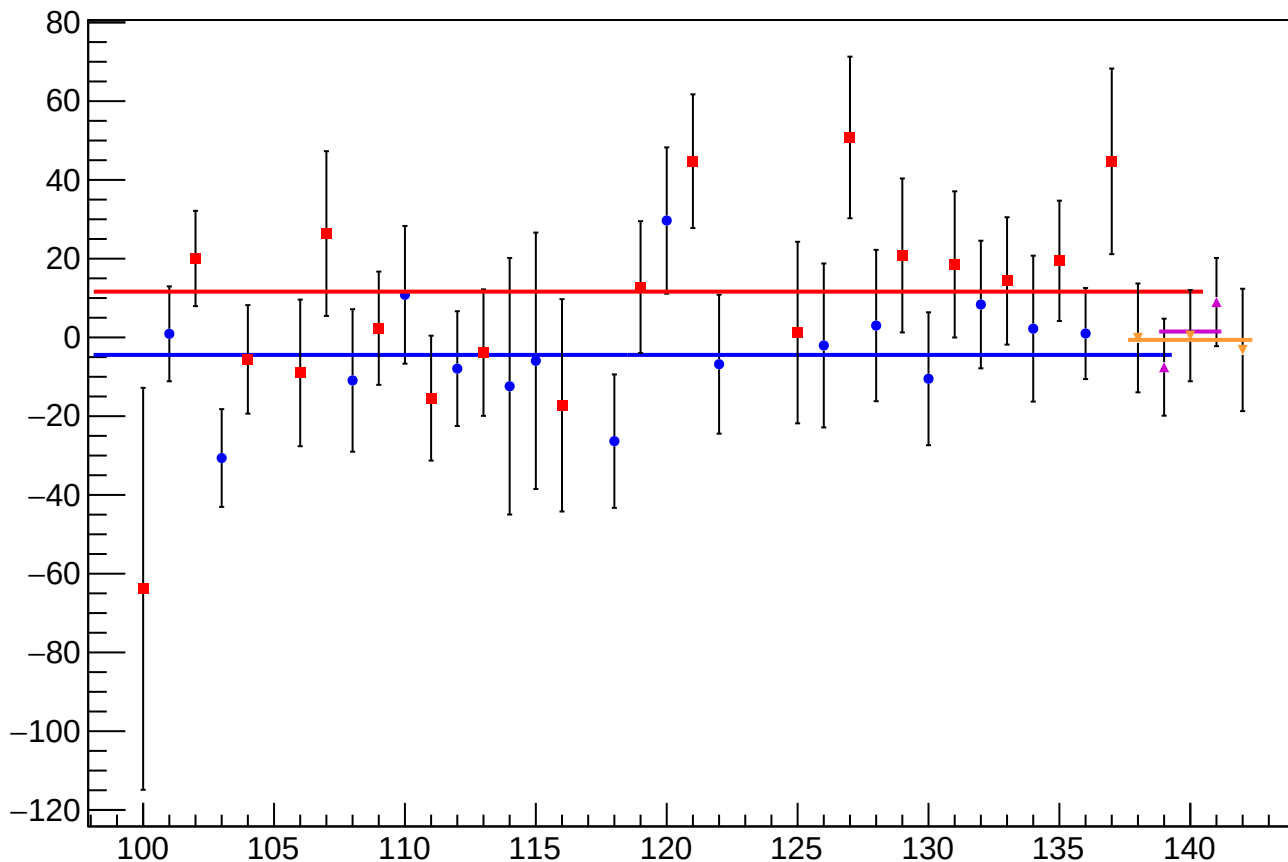
Right: 180.791 $\pm$ 0.036 χ^2 /NDF: 2751765.9/33

In: 196.478 $\pm$ 0.049 χ^2 /NDF:1061834.7/17

Out: 178.265 $\pm$ 0.044 χ^2 /NDF:1765259.3/20

All: 186.492 $\pm$ 0.033 χ^2 /NDF: 2903969.9/38

asym_bcm_an_us_an_ds_dd_mean vs Slug, Sign Corrected



Right In: -4.440 ± 4.131 χ^2/NDF : 12.0/15

Left Out: -0.623 ± 7.707 χ^2/NDF : 0.0/2

Right Out: 11.627 ± 4.137 χ^2/NDF : 21.6/17

Left In: 1.496 ± 8.286 χ^2/NDF : 1.0/1

Left: 0.360 ± 5.643 χ^2/NDF : 1.1/4

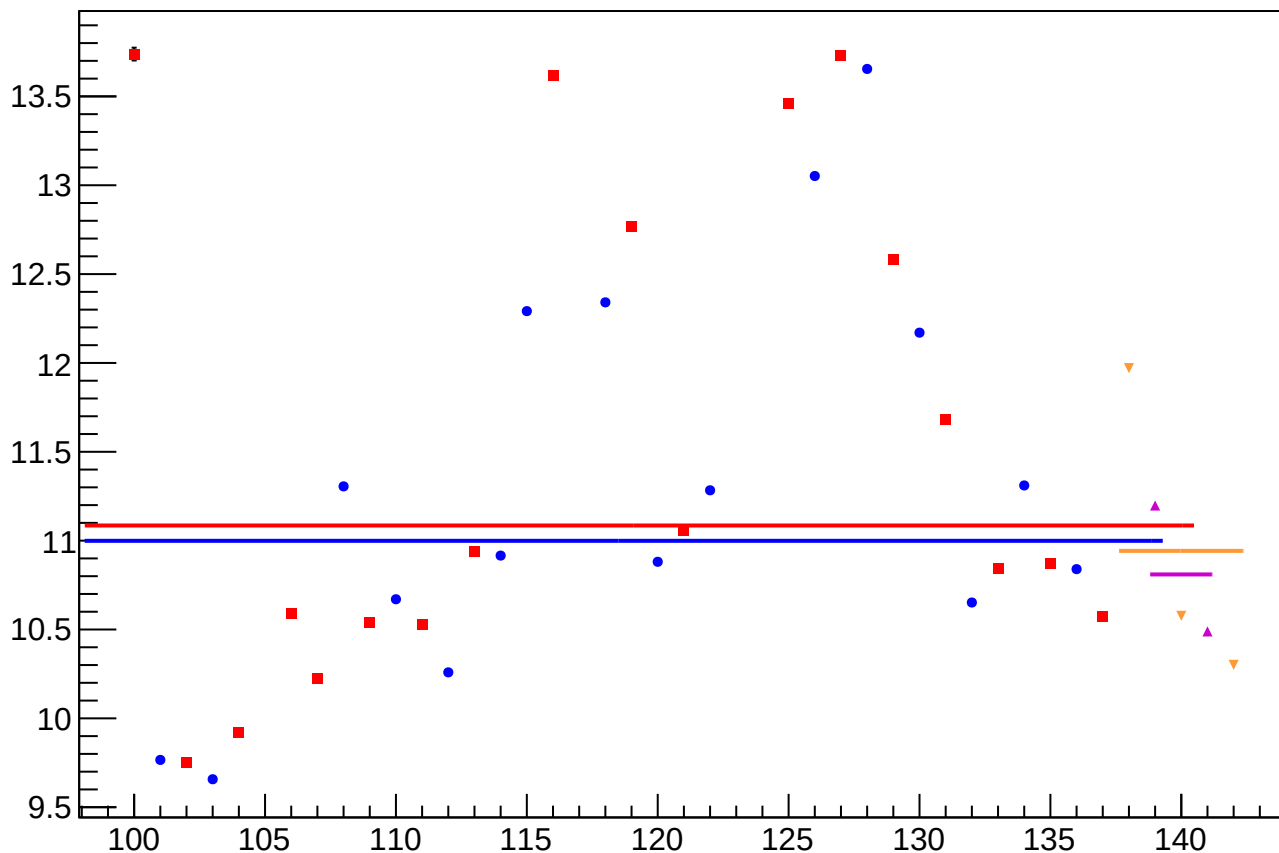
Right: 3.582 ± 2.923 χ^2/NDF : 41.2/33

In: -3.258 ± 3.697 χ^2/NDF : 13.4/17

Out: 8.887 ± 3.645 χ^2/NDF : 23.6/20

All: 2.901 ± 2.595 χ^2/NDF : 42.5/38

asym_bcm_an_us_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 10.999 $\pm$ 0.003 χ^2 /NDF: 136159.2/15

Left Out: 10.942 $\pm$ 0.005 χ^2 /NDF:16471.4/2

Right Out: 11.085 $\pm$ 0.003 χ^2 /NDF: 162204.2/17

Left In: 10.810 $\pm$ 0.006 χ^2 /NDF:3622.0/1

Left: 10.881 $\pm$ 0.004 χ^2 /NDF: 20368.1/4

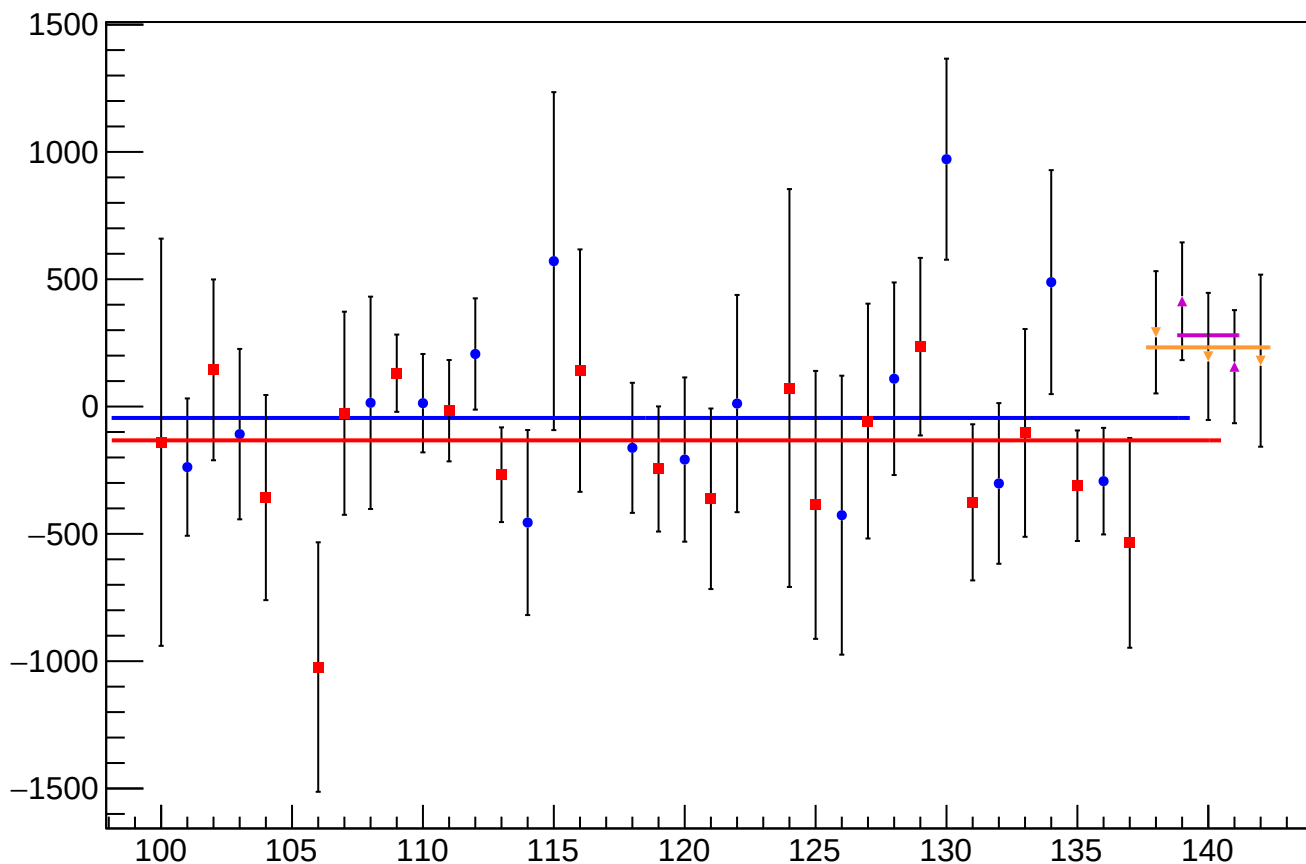
Right: 11.042 $\pm$ 0.002 χ^2 /NDF: 298798.9/33

In: 10.961 $\pm$ 0.003 χ^2 /NDF:140615.9/17

Out: 11.053 $\pm$ 0.003 χ^2 /NDF:179208.8/20

All: 11.008 $\pm$ 0.002 χ^2 /NDF: 320452.5/38

asym_bcm_an_us_an_ds3_avg_mean vs Slug, Sign Corrected



Right In: -44.797 ± 76.424 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 232.423 ± 154.027 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -132.730 ± 68.270 $\chi^2/\text{NDF}: 12.9/18$

Left In: 279.905 ± 160.159 $\chi^2/\text{NDF}: 0.6/1$

Left: 255.237 ± 111.018 $\chi^2/\text{NDF}: 0.8/4$

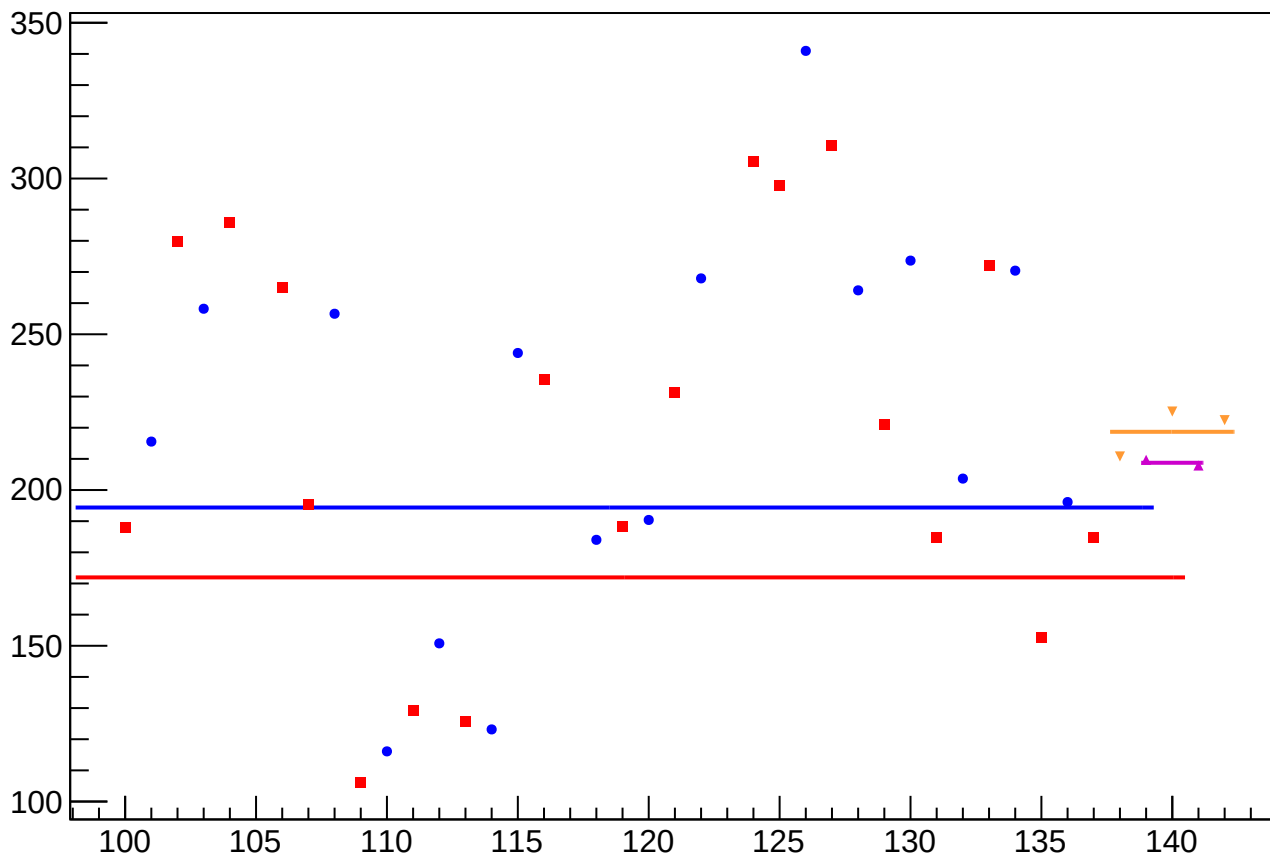
Right: -93.703 ± 50.914 $\chi^2/\text{NDF}: 29.0/34$

In: 15.424 ± 68.973 $\chi^2/\text{NDF}: 19.4/17$

Out: -72.773 ± 62.414 $\chi^2/\text{NDF}: 17.7/21$

All: -33.067 ± 46.279 $\chi^2/\text{NDF}: 38.0/39$

asym_bcm_an_us_an_ds3_avg_rms vs Slug, Sign Corrected



Right In: 194.385+/-0.054 χ^2/NDF : 1042024.1/15

Left Out: 218.691+/-0.109 χ^2/NDF : 3775.2/2

Right Out: 171.949+/-0.048 χ^2/NDF : 1651343.7/18

Left In: 208.750+/-0.113 χ^2/NDF : 65.1/1

Left: 213.915+/-0.079 χ^2/NDF : 7843.7/4

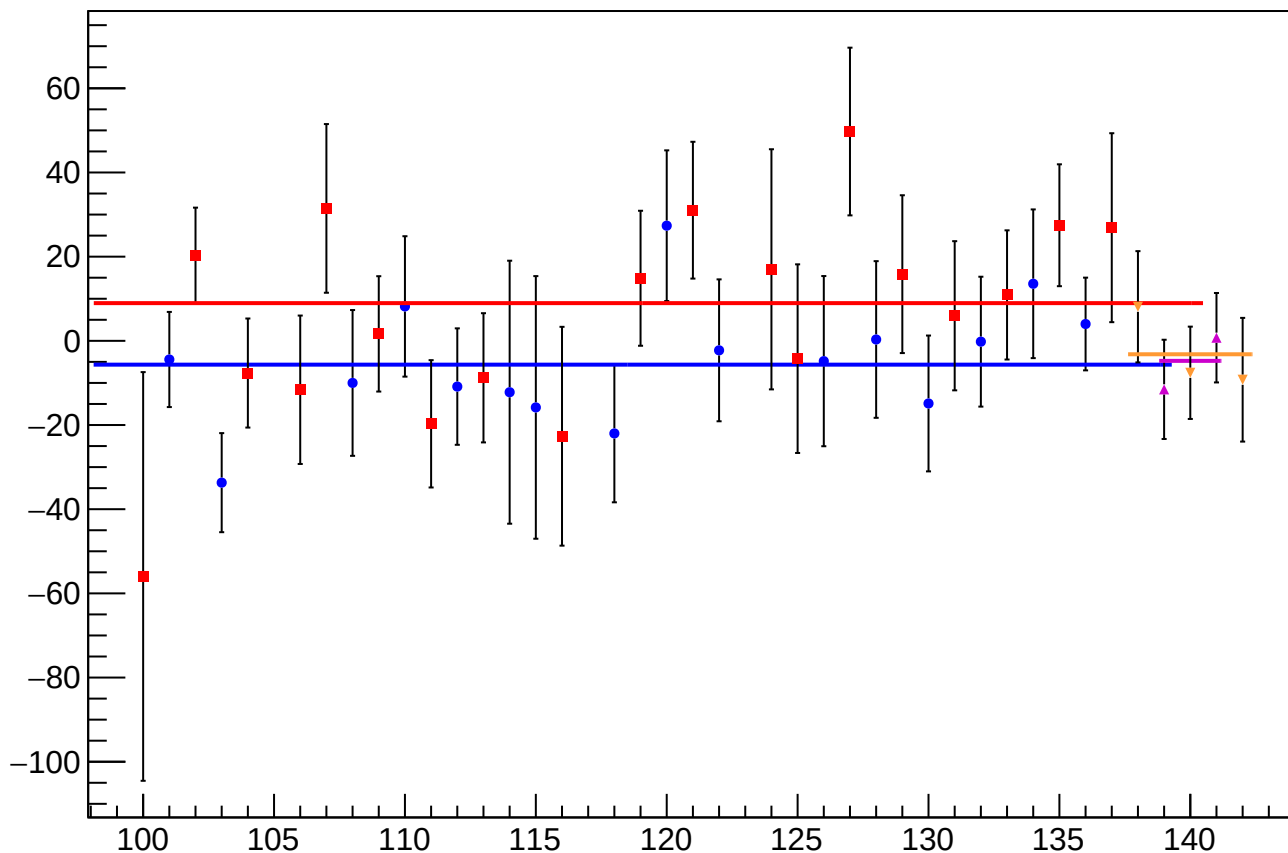
Right: 181.907+/-0.036 χ^2/NDF : 2789239.1/34

In: 197.049+/-0.049 χ^2/NDF : 1055194.0/17

Out: 179.624+/-0.044 χ^2/NDF : 1809062.3/21

All: 187.469+/-0.033 χ^2/NDF : 2934441.1/39

asym_bcm_an_us_an_ds3_dd_mean vs Slug, Sign Corrected



Right In: -5.657+/-3.939 χ^2/NDF : 13.7/15

Left Out: -3.191+/-7.318 χ^2/NDF : 1.1/2

Right Out: 8.960+/-3.901 χ^2/NDF : 22.8/18

Left In: -4.757+/-7.892 χ^2/NDF : 0.6/1

Left: -3.915+/-5.366 χ^2/NDF : 1.7/4

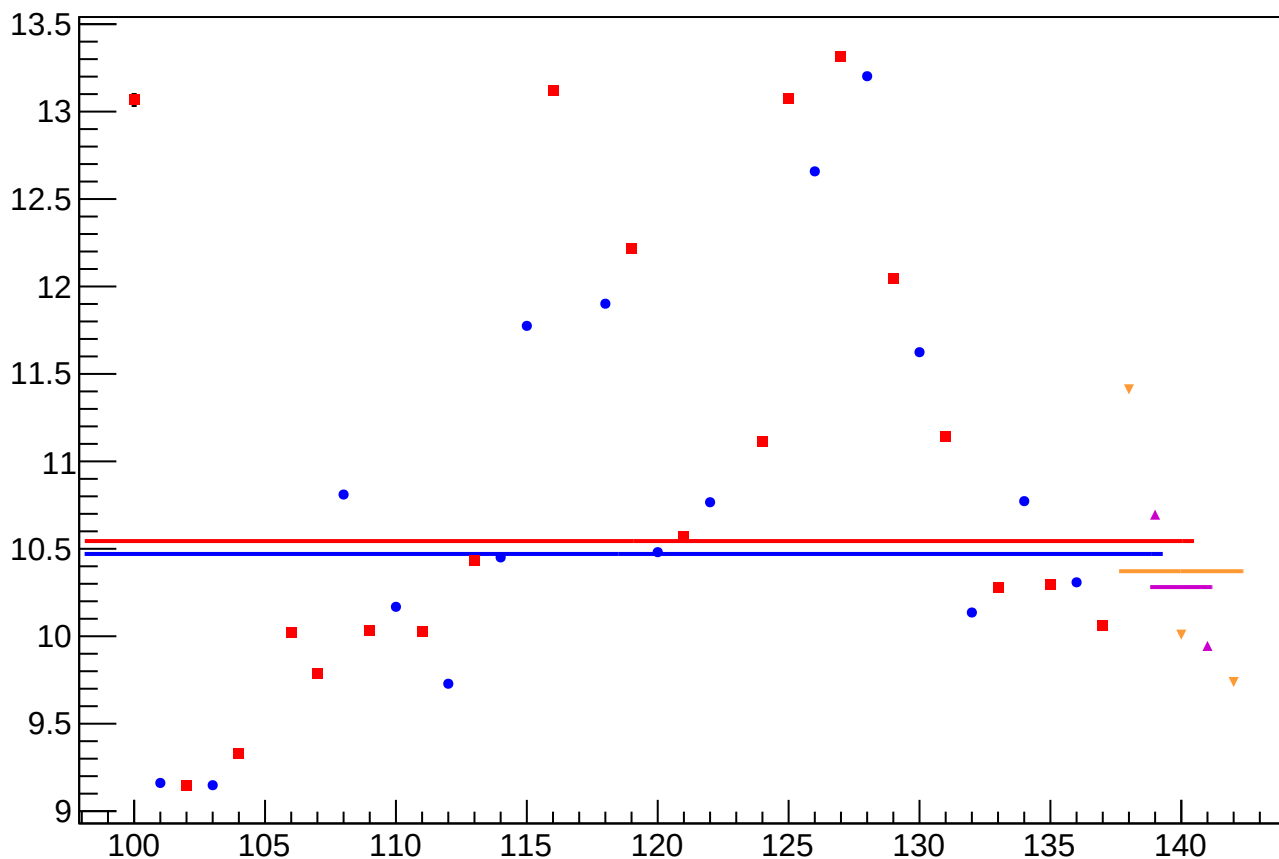
Right: 1.723+/-2.772 χ^2/NDF : 43.4/34

In: -5.478+/-3.525 χ^2/NDF : 14.3/17

Out: 6.272+/-3.442 χ^2/NDF : 26.0/21

All: 0.535+/-2.463 χ^2/NDF : 46.0/39

asym_bcm_an_us_an_ds3_dd_rms vs Slug, Sign Corrected



Right In: 10.471 $\pm$ 0.003 χ^2/NDF : 157365.8/15

Left Out: 10.372 $\pm$ 0.005 χ^2/NDF : 18294.4/2

Right Out: 10.544 $\pm$ 0.003 χ^2/NDF : 186780.3/18

Left In: 10.281 $\pm$ 0.006 χ^2/NDF : 4473.6/1

Left: 10.330 $\pm$ 0.004 χ^2/NDF : 22910.2/4

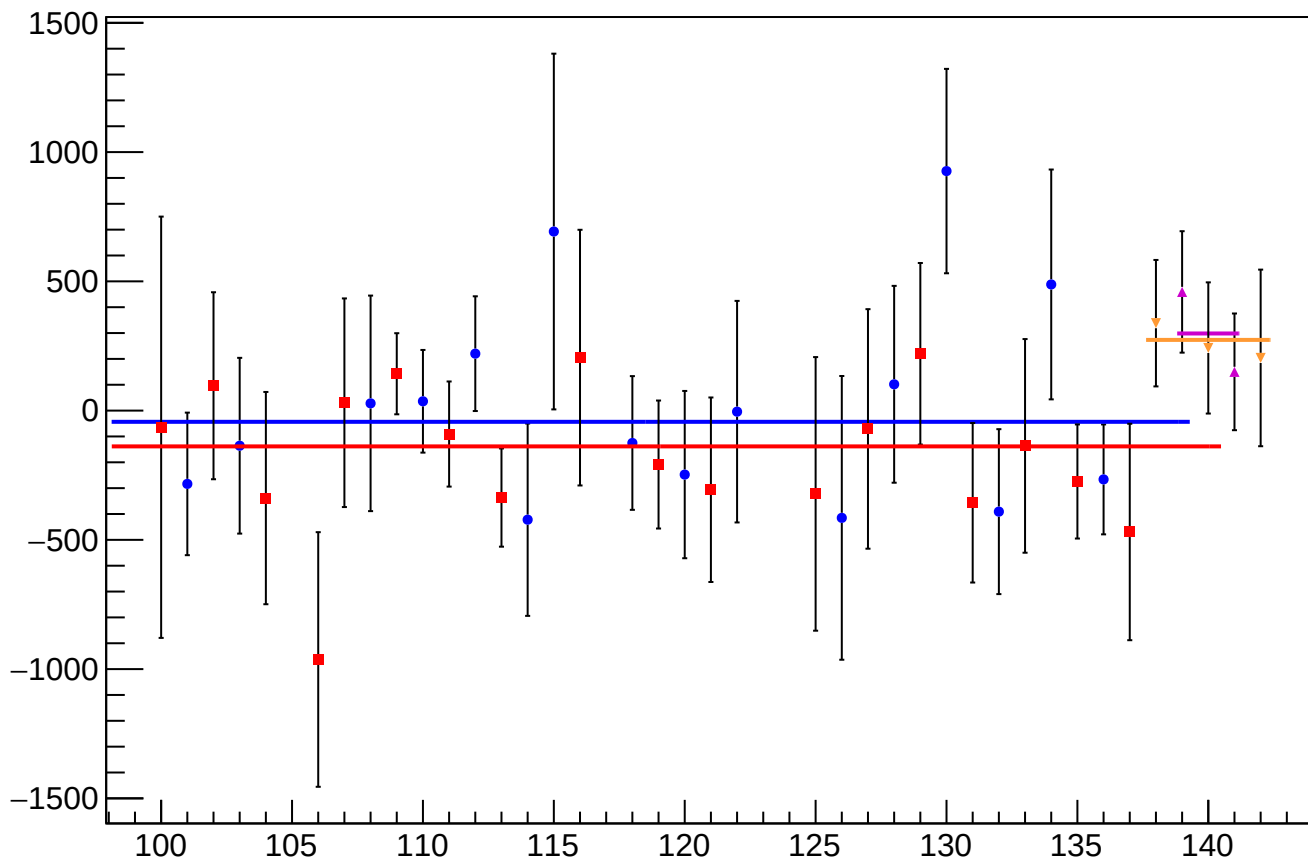
Right: 10.508 $\pm$ 0.002 χ^2/NDF : 344500.1/34

In: 10.433 $\pm$ 0.002 χ^2/NDF : 162761.3/17

Out: 10.506 $\pm$ 0.002 χ^2/NDF : 205938.8/21

All: 10.470 $\pm$ 0.002 χ^2/NDF : 369143.9/39

asym_bcm_dg_us_dg_ds_avg_mean vs Slug, Sign Corrected



Right In: -43.384+/-77.584 χ^2/NDF : 15.5/15

Left Out: 273.498+/-156.517 χ^2/NDF : 0.1/2

Right Out: -138.455+/-69.833 χ^2/NDF : 11.5/17

Left In: 298.354+/-162.753 χ^2/NDF : 0.9/1

Left: 285.441+/-112.815 χ^2/NDF : 1.0/4

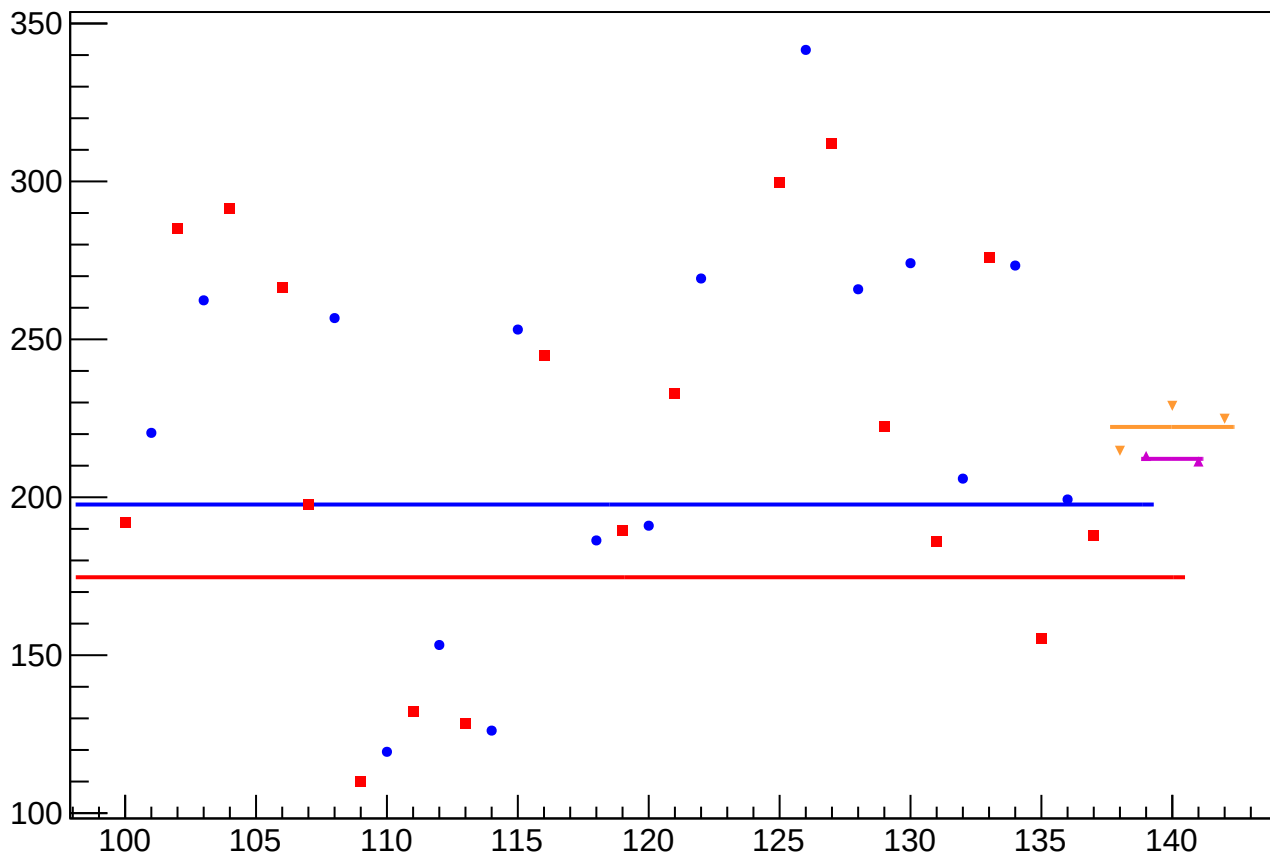
Right: -95.904+/-51.904 χ^2/NDF : 27.7/33

In: 19.894+/-70.034 χ^2/NDF : 19.9/17

Out: -70.063+/-63.773 χ^2/NDF : 17.4/20

All: -29.284+/-47.153 χ^2/NDF : 38.2/38

asym_bcm_dg_us_dg_ds_avg_rms vs Slug, Sign Corrected



Right In: 197.707+/-0.055 χ^2/NDF : 1000324.6/15

Left Out: 222.267+/-0.111 χ^2/NDF : 3404.3/2

Right Out: 174.679+/-0.049 χ^2/NDF : 1534751.1/17

Left In: 212.169+/-0.115 χ^2/NDF : 57.7/1

Left: 217.415+/-0.080 χ^2/NDF : 7461.8/4

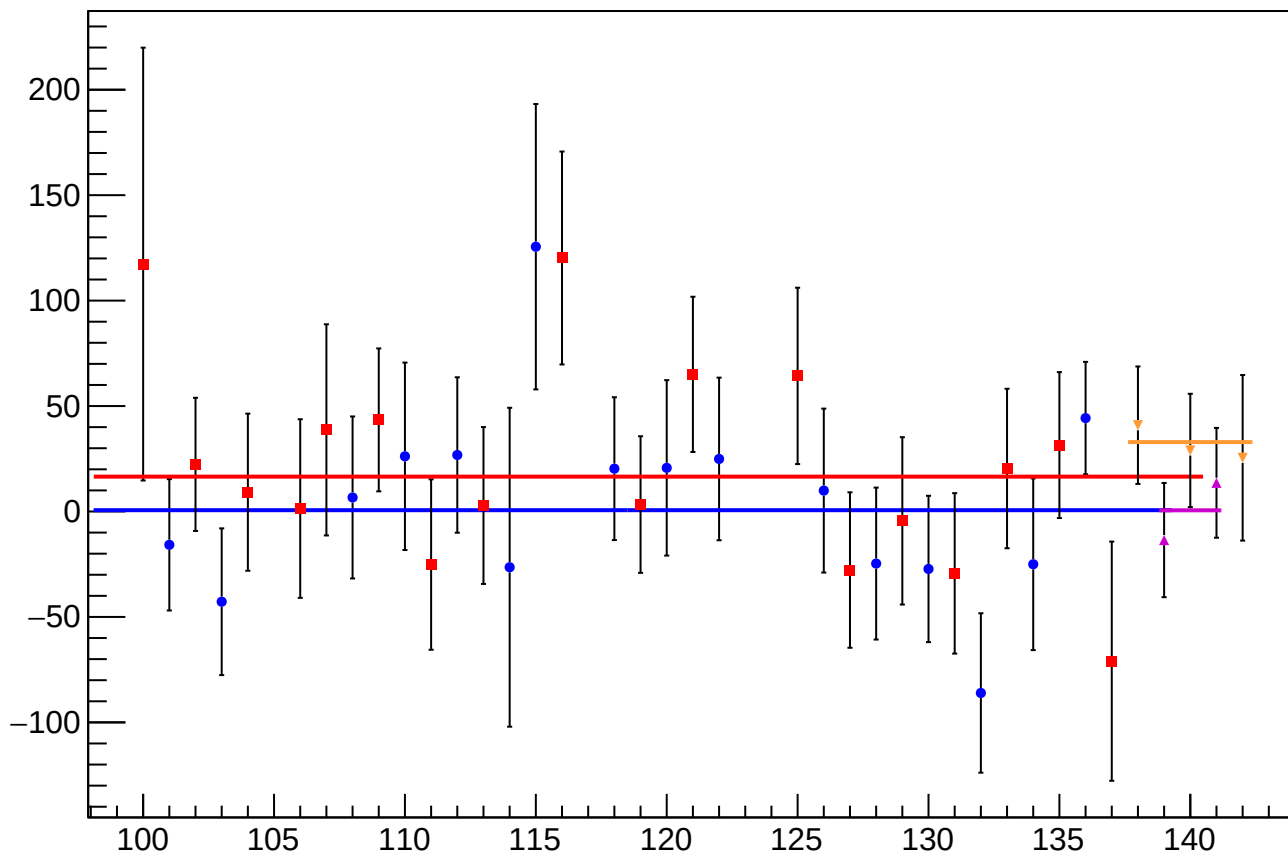
Right: 184.986+/-0.037 χ^2/NDF : 2632415.9/33

In: 200.385+/-0.050 χ^2/NDF : 1013248.8/17

Out: 182.579+/-0.045 χ^2/NDF : 1692343.3/20

All: 190.651+/-0.033 χ^2/NDF : 2776267.8/38

asym_bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.619 ± 9.421 $\chi^2/\text{NDF}: 16.7/15$

Left Out: 32.910 ± 17.344 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 16.534 ± 9.307 $\chi^2/\text{NDF}: 16.4/17$

Left In: 0.557 ± 18.770 $\chi^2/\text{NDF}: 0.5/1$

Left: 18.009 ± 12.738 $\chi^2/\text{NDF}: 2.3/4$

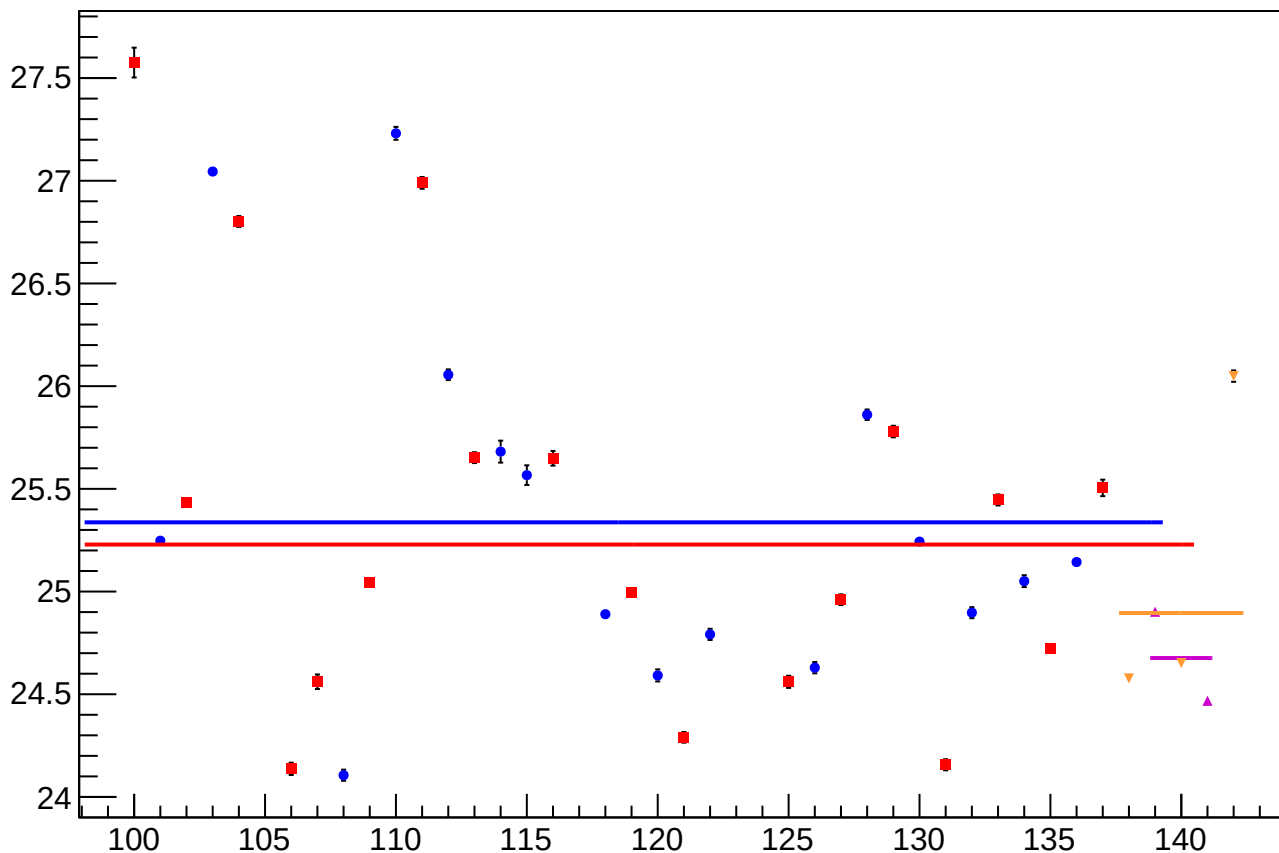
Right: 8.674 ± 6.621 $\chi^2/\text{NDF}: 34.6/33$

In: 0.607 ± 8.420 $\chi^2/\text{NDF}: 17.3/17$

Out: 20.195 ± 8.201 $\chi^2/\text{NDF}: 17.2/20$

All: 10.659 ± 5.875 $\chi^2/\text{NDF}: 37.2/38$

asym_bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 25.337 $\pm$ 0.007 χ^2 /NDF: 14315.0/15

Left Out: 24.896 $\pm$ 0.012 χ^2 /NDF:2153.1/2

Right Out: 25.229 $\pm$ 0.007 χ^2 /NDF: 15176.1/17

Left In: 24.676 $\pm$ 0.013 χ^2 /NDF:266.3/1

Left: 24.795 $\pm$ 0.009 χ^2 /NDF: 2566.6/4

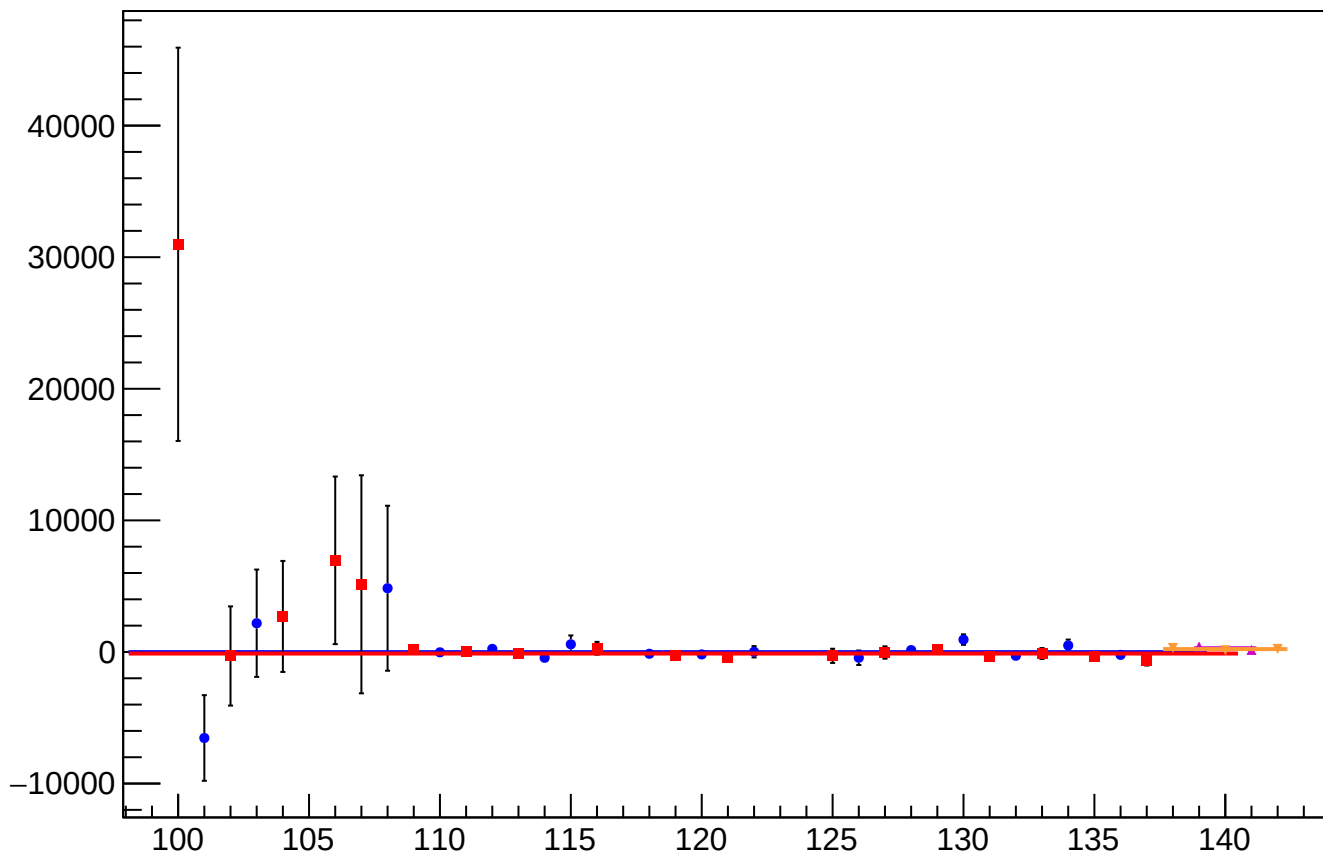
Right: 25.282 $\pm$ 0.005 χ^2 /NDF: 29624.6/33

In: 25.204 $\pm$ 0.006 χ^2 /NDF:16560.6/17

Out: 25.154 $\pm$ 0.006 χ^2 /NDF:17902.4/20

All: 25.179 $\pm$ 0.004 χ^2 /NDF: 34498.8/38

asym_bcm_cav4cQ_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -13.160 ± 84.454 χ^2/NDF : 18.3/15

Left Out: 219.281 ± 154.523 χ^2/NDF : 0.3/2

Right Out: -119.984 ± 78.247 χ^2/NDF : 14.4/17

Left In: 282.328 ± 159.537 χ^2/NDF : 0.7/1

Left: 249.798 ± 110.995 χ^2/NDF : 1.0/4

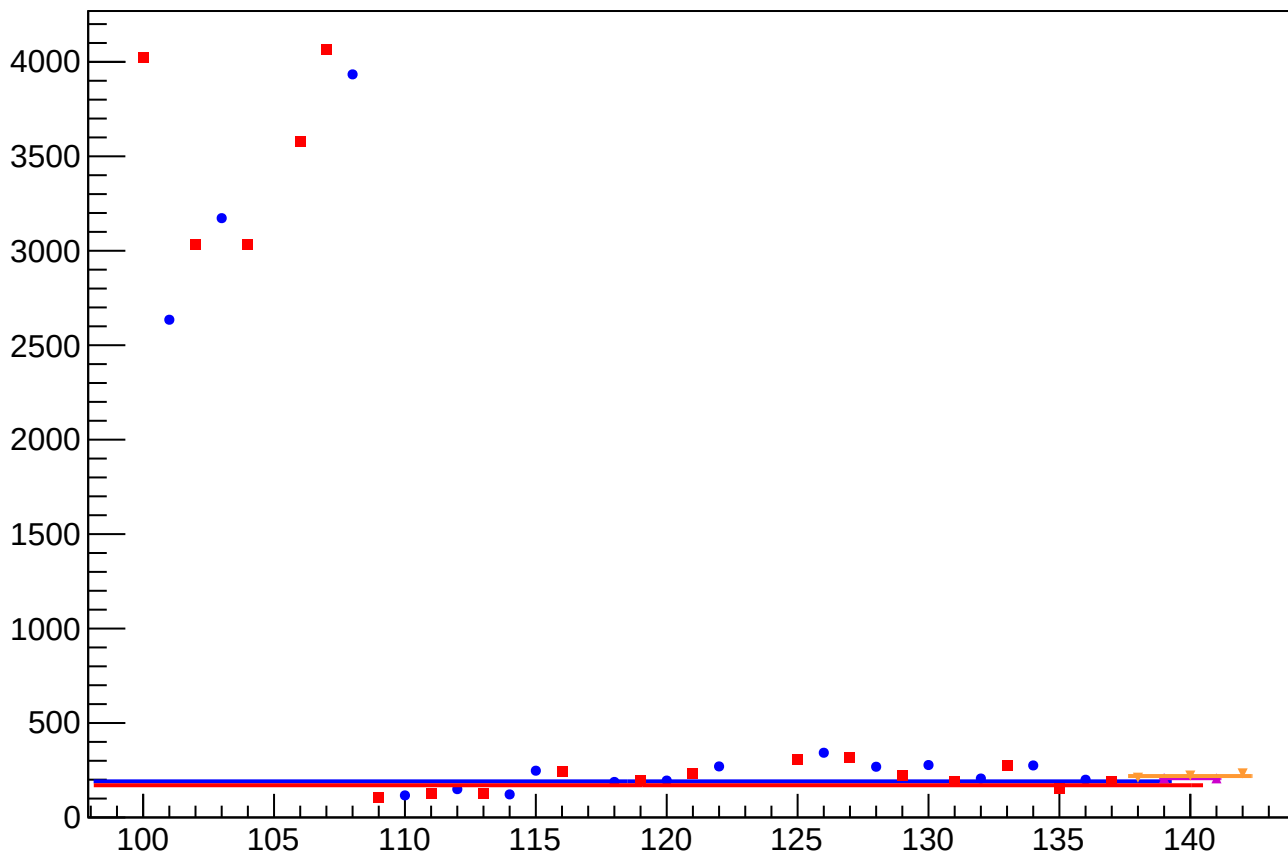
Right: -70.641 ± 57.398 χ^2/NDF : 33.6/33

In: 51.519 ± 74.641 χ^2/NDF : 21.7/17

Out: -50.744 ± 69.807 χ^2/NDF : 18.5/20

All: -3.030 ± 50.984 χ^2/NDF : 41.1/38

asym_bcm_cav4cQ_an_ds_avg_rms vs Slug, Sign Corrected



Right In: 191.070 $\pm$ 0.060 χ^2 /NDF: 3833952.4/15

Left Out: 219.203 $\pm$ 0.109 χ^2 /NDF:6074.1/2

Right Out: 170.494 $\pm$ 0.055 χ^2 /NDF: 4254820.8/17

Left In: 207.790 $\pm$ 0.113 χ^2 /NDF:34.7/1

Left: 213.679 $\pm$ 0.078 χ^2 /NDF: 11389.9/4

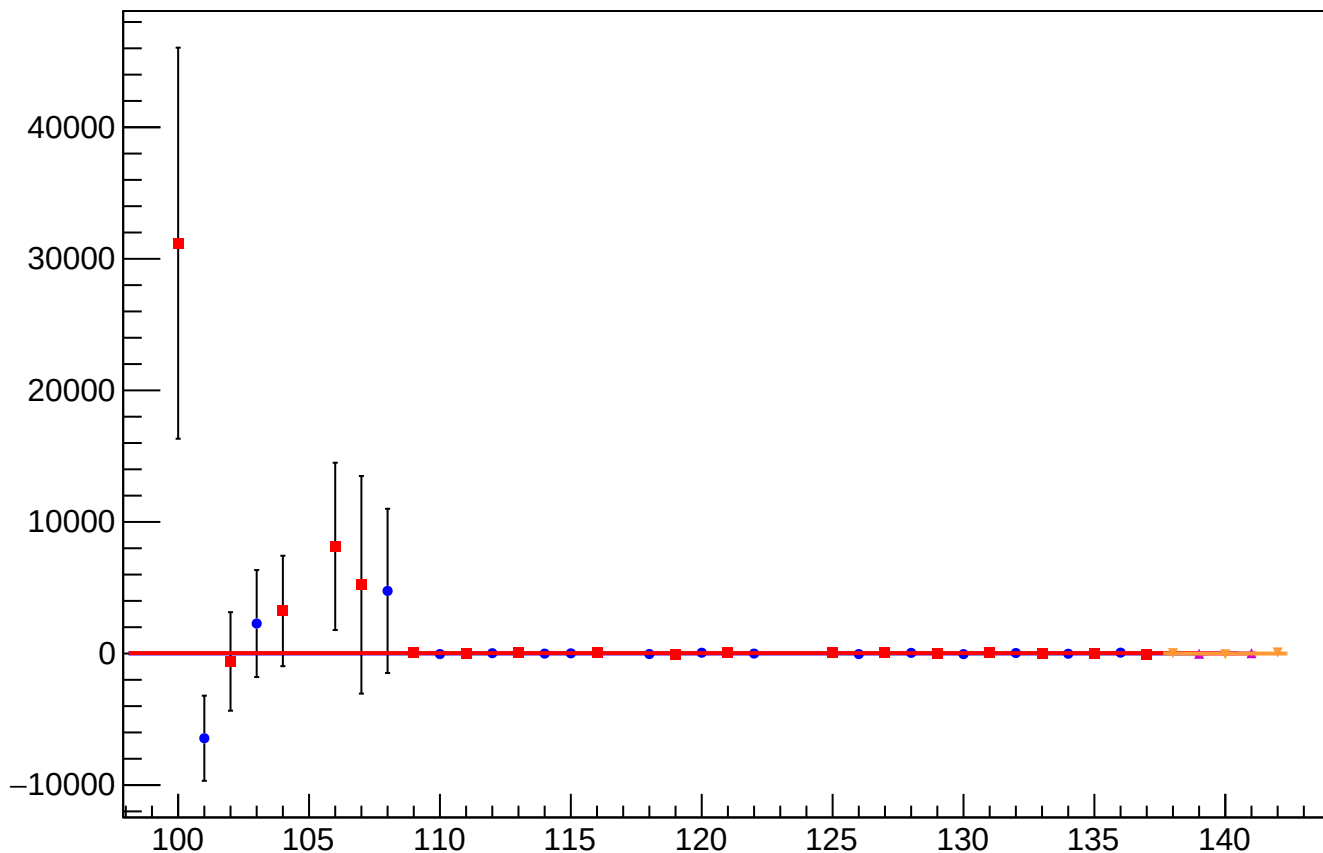
Right: 179.998 $\pm$ 0.041 χ^2 /NDF: 8152654.9/33

In: 194.730 $\pm$ 0.053 χ^2 /NDF:3851147.2/17

Out: 180.435 $\pm$ 0.049 χ^2 /NDF:4419071.1/20

All: 187.104 $\pm$ 0.036 χ^2 /NDF: 8309349.7/38

asym_bcm_cav4cQ_an_ds_dd_mean vs Slug, Sign Corrected



Right In: 6.490 $\pm$ 11.764 χ^2 /NDF: 18.3/15

Left Out: -2.113 $\pm$ 20.013 χ^2 /NDF: 7.0/2

Right Out: 30.740 $\pm$ 12.084 χ^2 /NDF: 19.9/17

Left In: 5.222 $\pm$ 21.079 χ^2 /NDF: 0.9/1

Left: 1.364 $\pm$ 14.513 χ^2 /NDF: 7.9/4

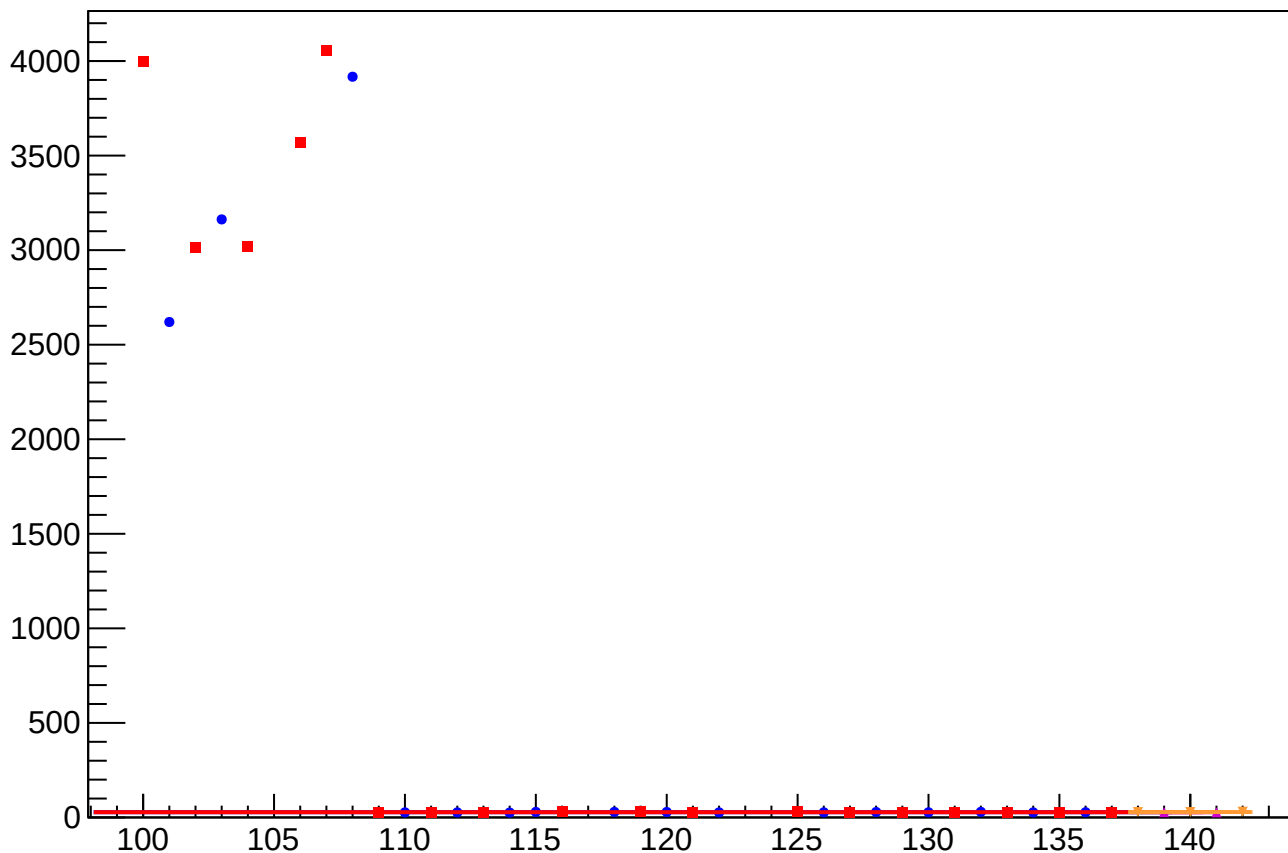
Right: 18.290 $\pm$ 8.429 χ^2 /NDF: 40.2/33

In: 6.189 $\pm$ 10.273 χ^2 /NDF: 19.2/17

Out: 21.962 $\pm$ 10.345 χ^2 /NDF: 28.8/20

All: 14.020 $\pm$ 7.289 χ^2 /NDF: 49.2/38

asym_bcm_cav4cQ_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 27.825+/-0.008 χ^2/NDF : 3265895.3/15

Left Out: 28.616+/-0.014 χ^2/NDF :3175.1/2

Right Out: 27.778+/-0.009 χ^2/NDF : 3558398.6/17

Left In: 27.662+/-0.015 χ^2/NDF :913.0/1

Left: 28.164+/-0.010 χ^2/NDF : 6243.8/4

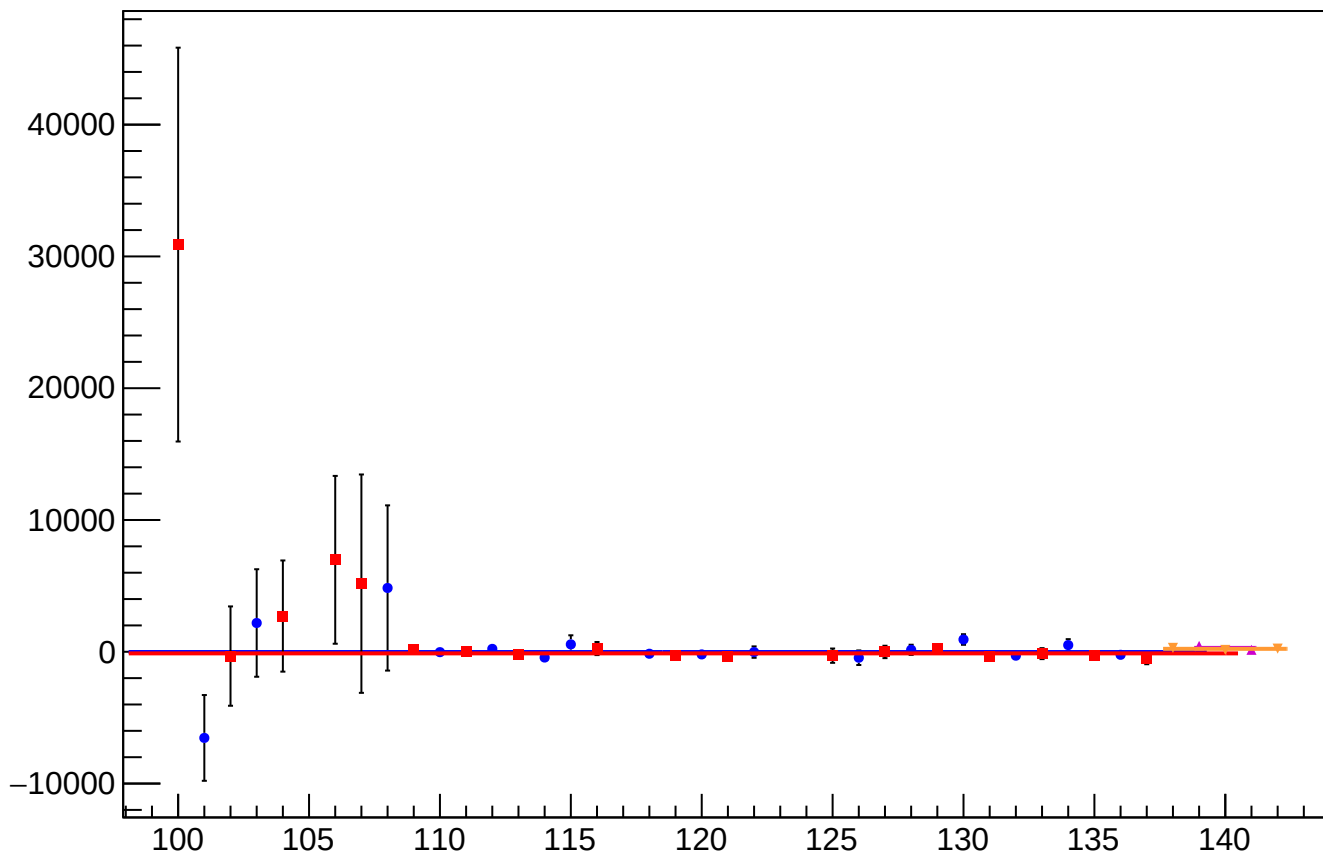
Right: 27.802+/-0.006 χ^2/NDF : 6824309.2/33

In: 27.786+/-0.007 χ^2/NDF :3266899.6/17

Out: 28.002+/-0.007 χ^2/NDF :3564142.2/20

All: 27.893+/-0.005 χ^2/NDF : 6831480.6/38

asym_bcm_cav4cQ_dg_ds_avg_mean vs Slug, Sign Corrected



Right In: -19.522 ± 85.063 χ^2/NDF : 18.2/15

Left Out: 223.408 ± 155.322 χ^2/NDF : 0.2/2

Right Out: -121.544 ± 78.844 χ^2/NDF : 13.2/17

Left In: 293.298 ± 160.466 χ^2/NDF : 0.8/1

Left: 257.215 ± 111.603 χ^2/NDF : 1.2/4

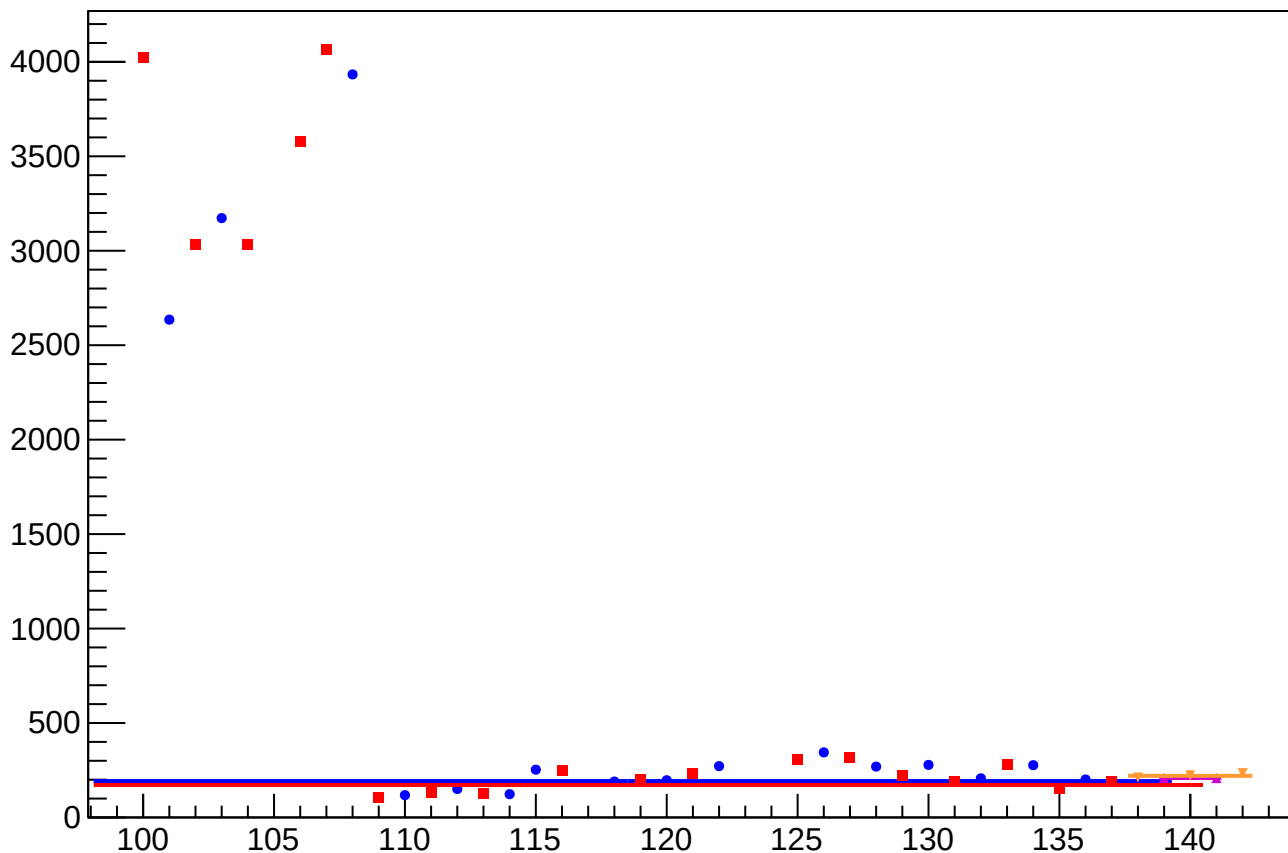
Right: -74.398 ± 57.825 χ^2/NDF : 32.2/33

In: 49.100 ± 75.156 χ^2/NDF : 22.0/17

Out: -50.870 ± 70.305 χ^2/NDF : 17.4/20

All: -4.216 ± 51.342 χ^2/NDF : 40.3/38

asym_bcm_cav4cQ_dg_ds_avg_rms vs Slug, Sign Corrected



Right In: 192.560 $\pm$ 0.060 χ^2 /NDF: 3822789.1/15

Left Out: 220.339 $\pm$ 0.110 χ^2 /NDF: 6082.2/2

Right Out: 171.899 $\pm$ 0.056 χ^2 /NDF: 4247800.5/17

Left In: 209.007 $\pm$ 0.113 χ^2 /NDF: 27.7/1

Left: 214.858 $\pm$ 0.079 χ^2 /NDF: 11259.7/4

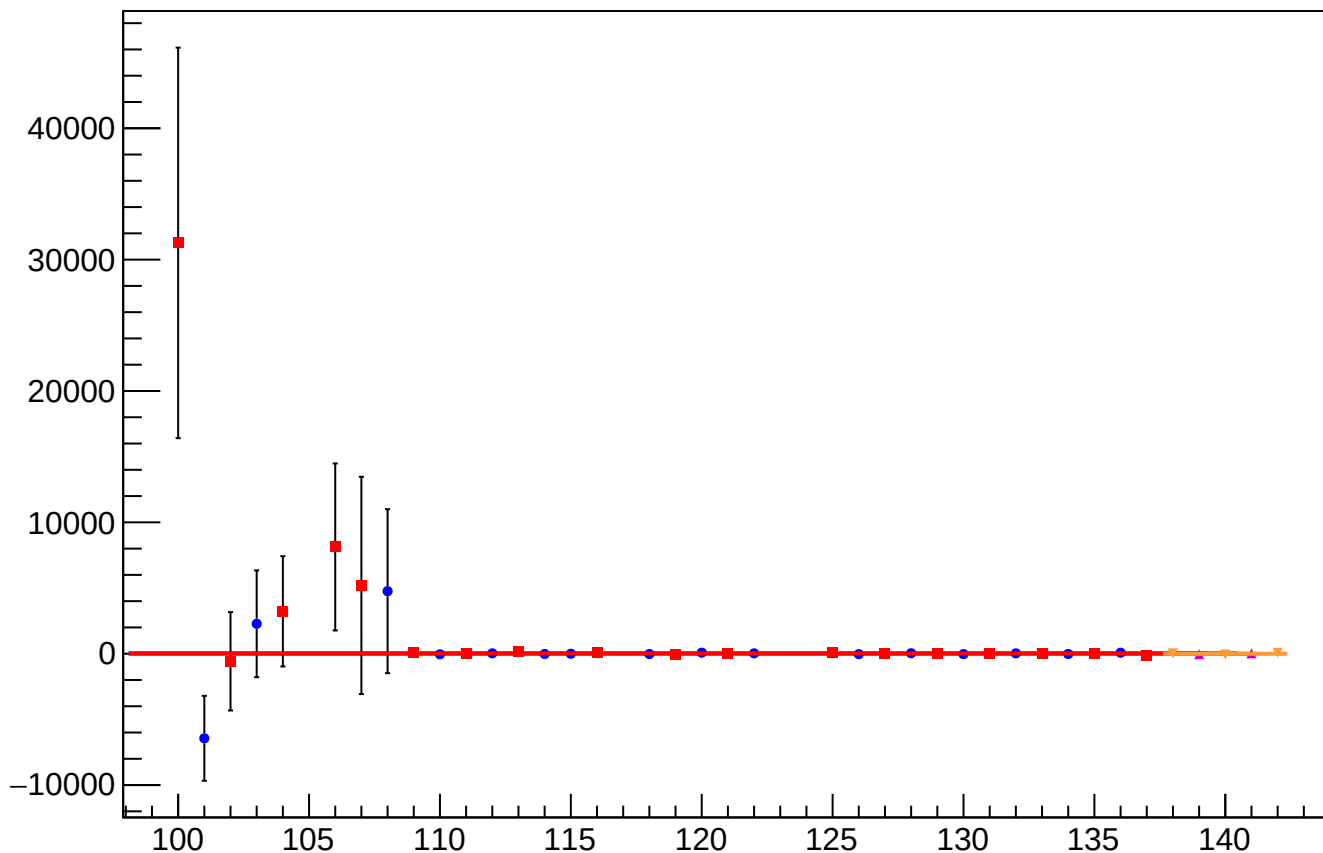
Right: 181.447 $\pm$ 0.041 χ^2 /NDF: 8134058.4/33

In: 196.168 $\pm$ 0.053 χ^2 /NDF: 3839218.6/17

Out: 181.823 $\pm$ 0.050 χ^2 /NDF: 4408556.7/20

All: 188.518 $\pm$ 0.036 χ^2 /NDF: 8286632.1/38

asym_bcm_cav4cQ_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 13.713+/-13.062 χ^2/NDF : 15.5/15

Left Out: -6.849+/-21.840 χ^2/NDF : 5.9/2

Right Out: 21.906+/-13.382 χ^2/NDF : 28.4/17

Left In: -4.885+/-23.139 χ^2/NDF : 2.1/1

Left: -5.923+/-15.882 χ^2/NDF : 8.0/4

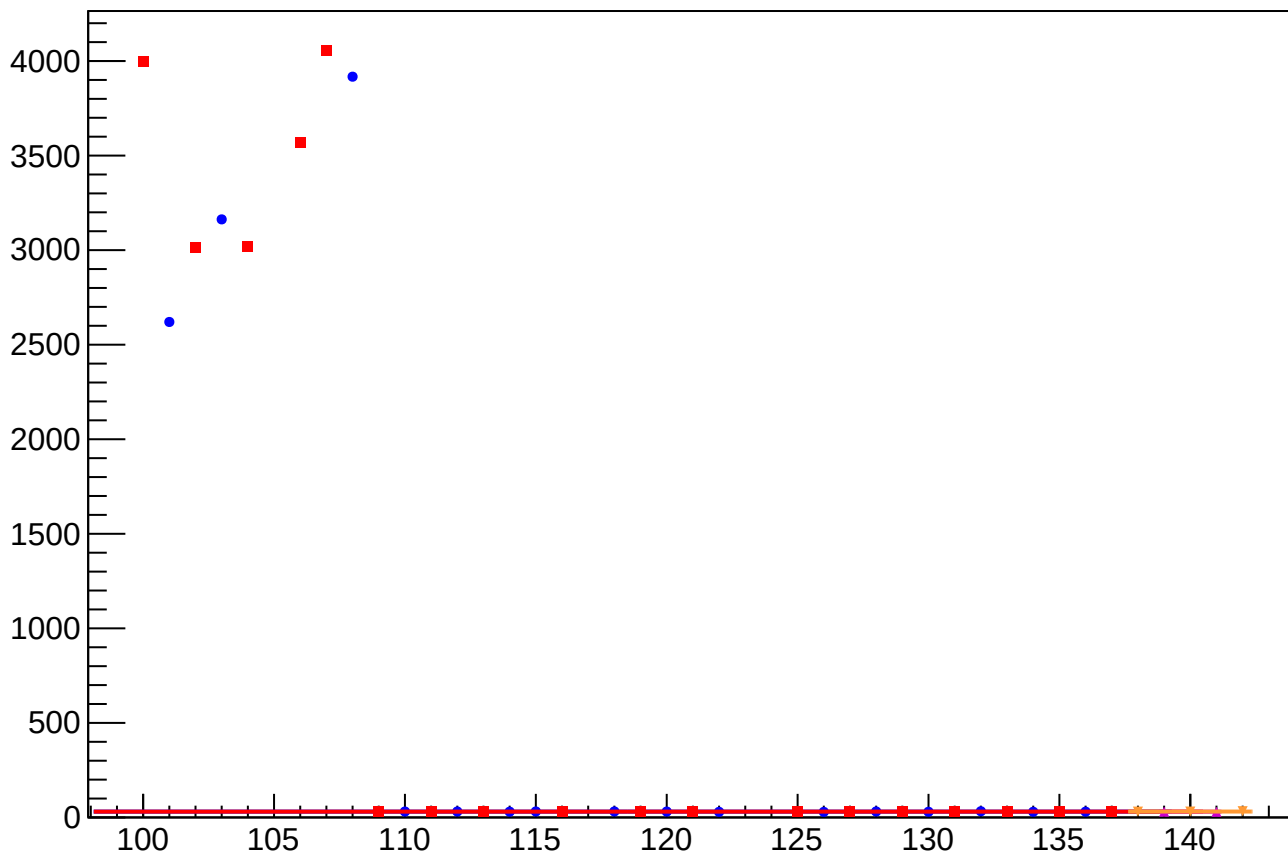
Right: 17.710+/-9.347 χ^2/NDF : 44.0/33

In: 9.219+/-11.375 χ^2/NDF : 18.1/17

Out: 14.057+/-11.411 χ^2/NDF : 35.5/20

All: 11.630+/-8.056 χ^2/NDF : 53.6/38

asym_bcm_cav4cQ_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 30.928+/-0.009 χ^2/NDF : 3252607.8/15

Left Out: 31.252+/-0.015 χ^2/NDF : 2956.8/2

Right Out: 30.804+/-0.009 χ^2/NDF : 3535959.8/17

Left In: 30.386+/-0.016 χ^2/NDF : 488.1/1

Left: 30.844+/-0.011 χ^2/NDF : 4925.9/4

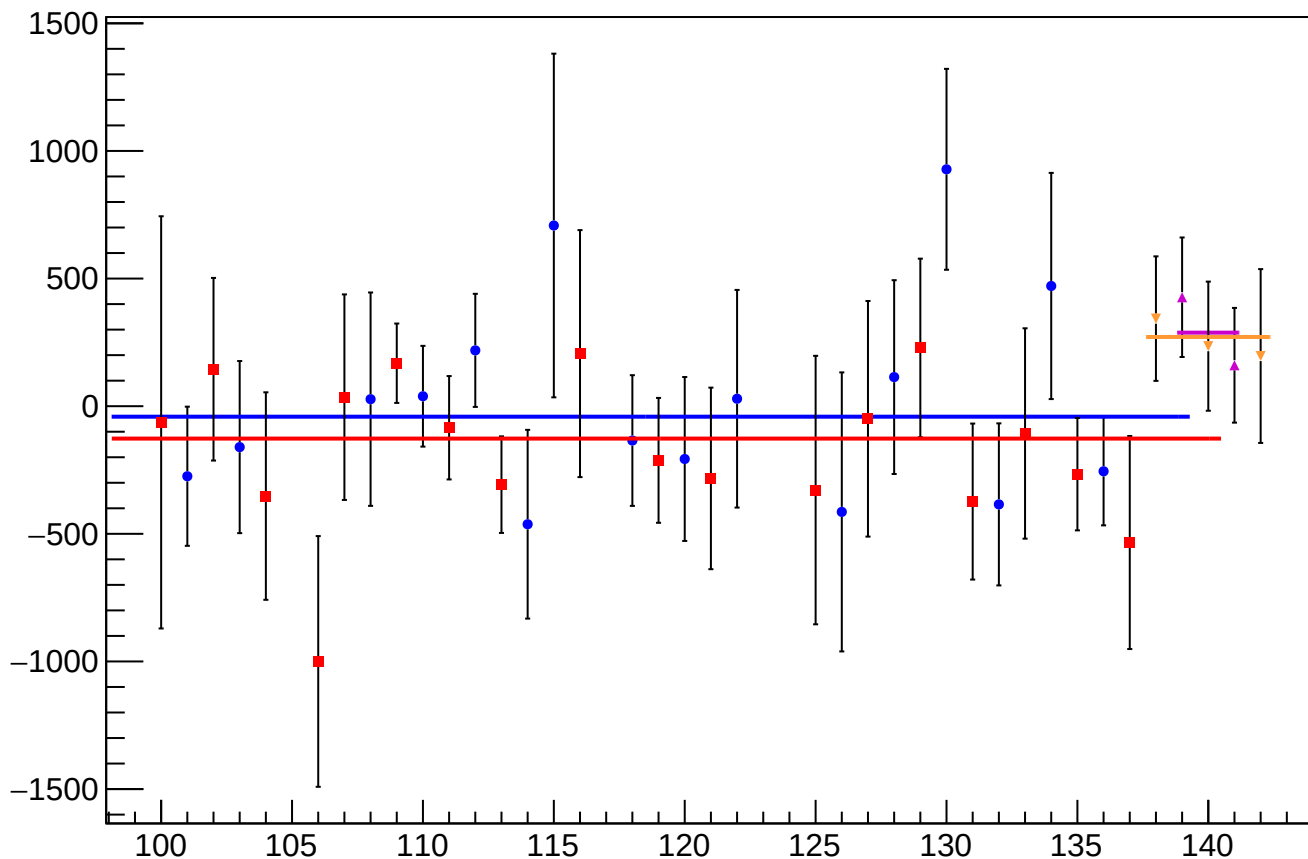
Right: 30.868+/-0.007 χ^2/NDF : 6788655.9/33

In: 30.797+/-0.008 χ^2/NDF : 3253928.6/17

Out: 30.926+/-0.008 χ^2/NDF : 3539528.2/20

All: 30.862+/-0.006 χ^2/NDF : 6793585.1/38

asym_bcm_dg_us_an_us_avg_mean vs Slug, Sign Corrected



Right In: -41.114 ± 77.139 χ^2/NDF : 15.6/15

Left Out: 271.239 ± 156.049 χ^2/NDF : 0.2/2

Right Out: -126.896 ± 69.382 χ^2/NDF : 12.8/17

Left In: 288.142 ± 162.116 χ^2/NDF : 0.7/1

Left: 279.368 ± 112.427 χ^2/NDF : 0.8/4

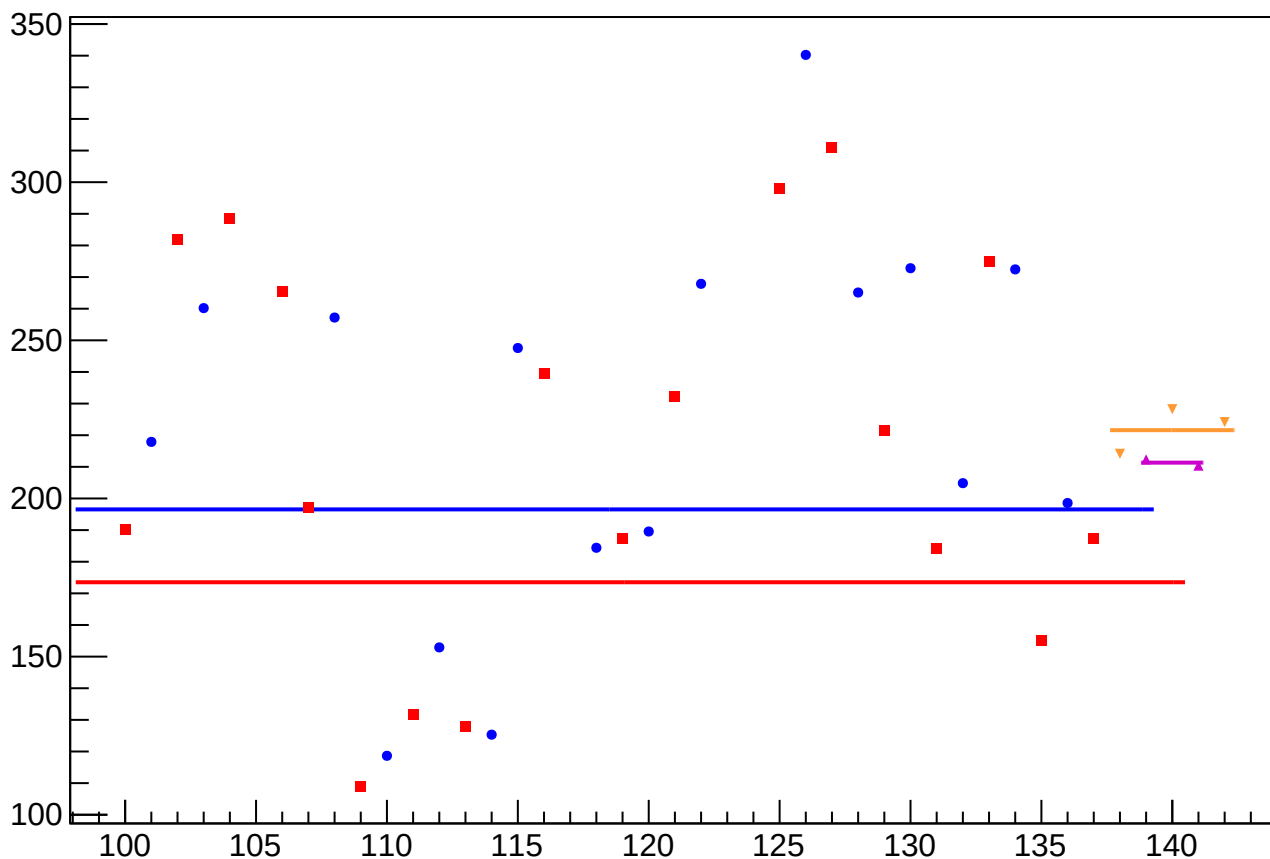
Right: -88.533 ± 51.586 χ^2/NDF : 29.1/33

In: 19.671 ± 69.656 χ^2/NDF : 19.7/17

Out: -61.181 ± 63.398 χ^2/NDF : 18.4/20

All: -24.549 ± 46.886 χ^2/NDF : 38.7/38

asym_bcm_dg_us_an_us_avg_rms vs Slug, Sign Corrected



Right In: 196.542 $\pm$ 0.055 χ^2 /NDF: 1000770.4/15

Left Out: 221.598 $\pm$ 0.110 χ^2 /NDF:3362.1/2

Right Out: 173.509 $\pm$ 0.049 χ^2 /NDF: 1532720.5/17

Left In: 211.330 $\pm$ 0.115 χ^2 /NDF:73.6/1

Left: 216.660 $\pm$ 0.079 χ^2 /NDF: 7600.6/4

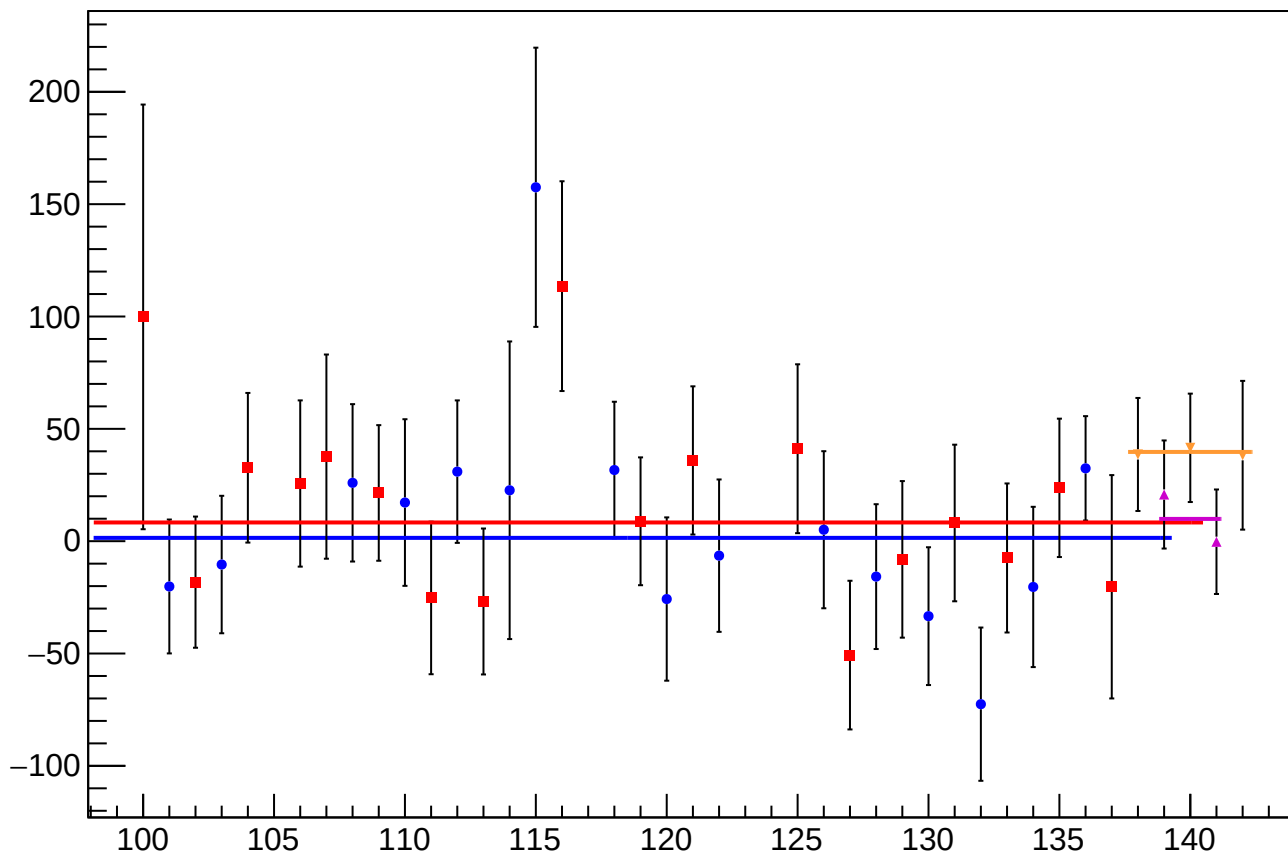
Right: 183.810 $\pm$ 0.036 χ^2 /NDF: 2632060.1/33

In: 199.272 $\pm$ 0.049 χ^2 /NDF:1014412.6/17

Out: 181.447 $\pm$ 0.045 χ^2 /NDF:1694665.3/20

All: 189.523 $\pm$ 0.033 χ^2 /NDF: 2780713.4/38

asym_bcm_dg_us_an_us_dd_mean vs Slug, Sign Corrected



Right In: 1.475 ± 8.370 χ^2/NDF : 18.7/15

Left Out: 39.724 ± 15.410 χ^2/NDF : 0.0/2

Right Out: 8.329 ± 8.286 χ^2/NDF : 16.0/17

Left In: 9.911 ± 16.721 χ^2/NDF : 0.4/1

Left: 26.032 ± 11.332 χ^2/NDF : 2.1/4

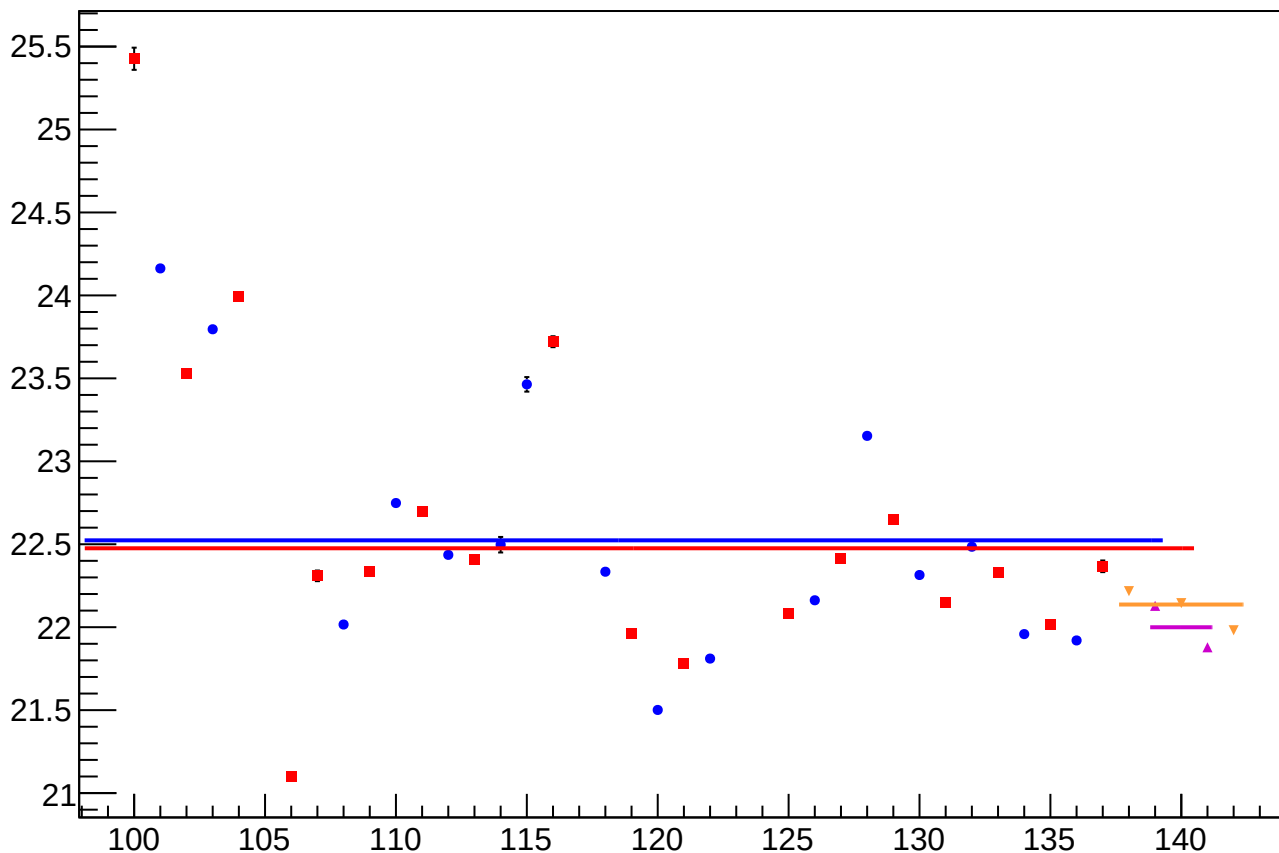
Right: 4.937 ± 5.889 χ^2/NDF : 35.0/33

In: 3.166 ± 7.485 χ^2/NDF : 19.3/17

Out: 15.370 ± 7.298 χ^2/NDF : 19.3/20

All: 9.422 ± 5.225 χ^2/NDF : 39.9/38

asym_bcm_dg_us_an_us_dd_rms vs Slug, Sign Corrected



Right In: 22.524+/-0.006 χ^2/NDF : 15947.8/15

Left Out: 22.137+/-0.011 χ^2/NDF : 64.7/2

Right Out: 22.476+/-0.006 χ^2/NDF : 15536.6/17

Left In: 22.000+/-0.012 χ^2/NDF : 111.4/1

Left: 22.074+/-0.008 χ^2/NDF : 248.8/4

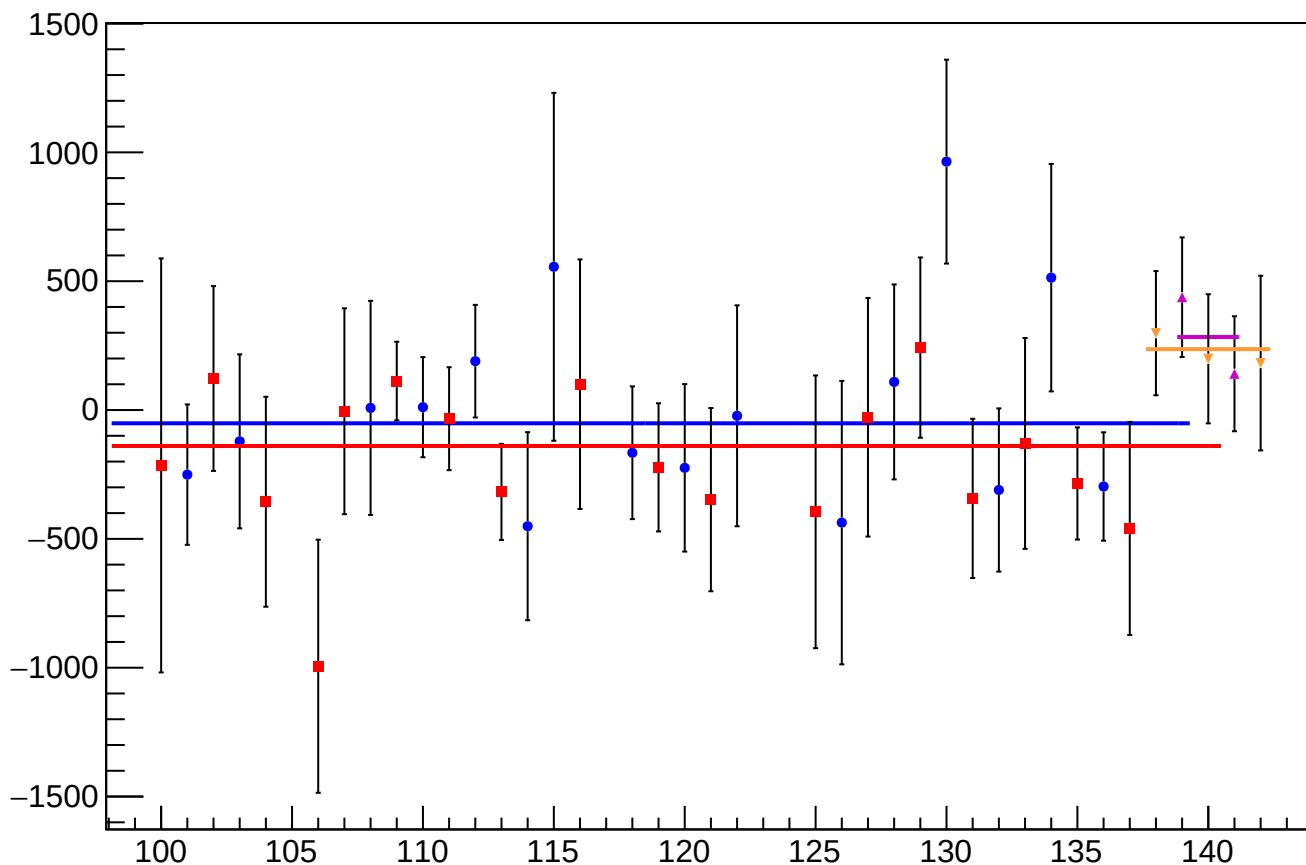
Right: 22.499+/-0.004 χ^2/NDF : 31517.5/33

In: 22.419+/-0.005 χ^2/NDF : 17629.5/17

Out: 22.400+/-0.005 χ^2/NDF : 16352.3/20

All: 22.409+/-0.004 χ^2/NDF : 33988.4/38

asym_bcm_dg_ds_an_us_avg_mean vs Slug, Sign Corrected



Right In: -51.492 ± 76.798 $\chi^2/\text{NDF}: 15.3/15$

Left Out: 236.294 ± 154.596 $\chi^2/\text{NDF}: 0.1/2$

Right Out: -139.546 ± 68.888 $\chi^2/\text{NDF}: 11.6/17$

Left In: 283.409 ± 160.860 $\chi^2/\text{NDF}: 0.9/1$

Left: 258.917 ± 111.465 $\chi^2/\text{NDF}: 1.0/4$

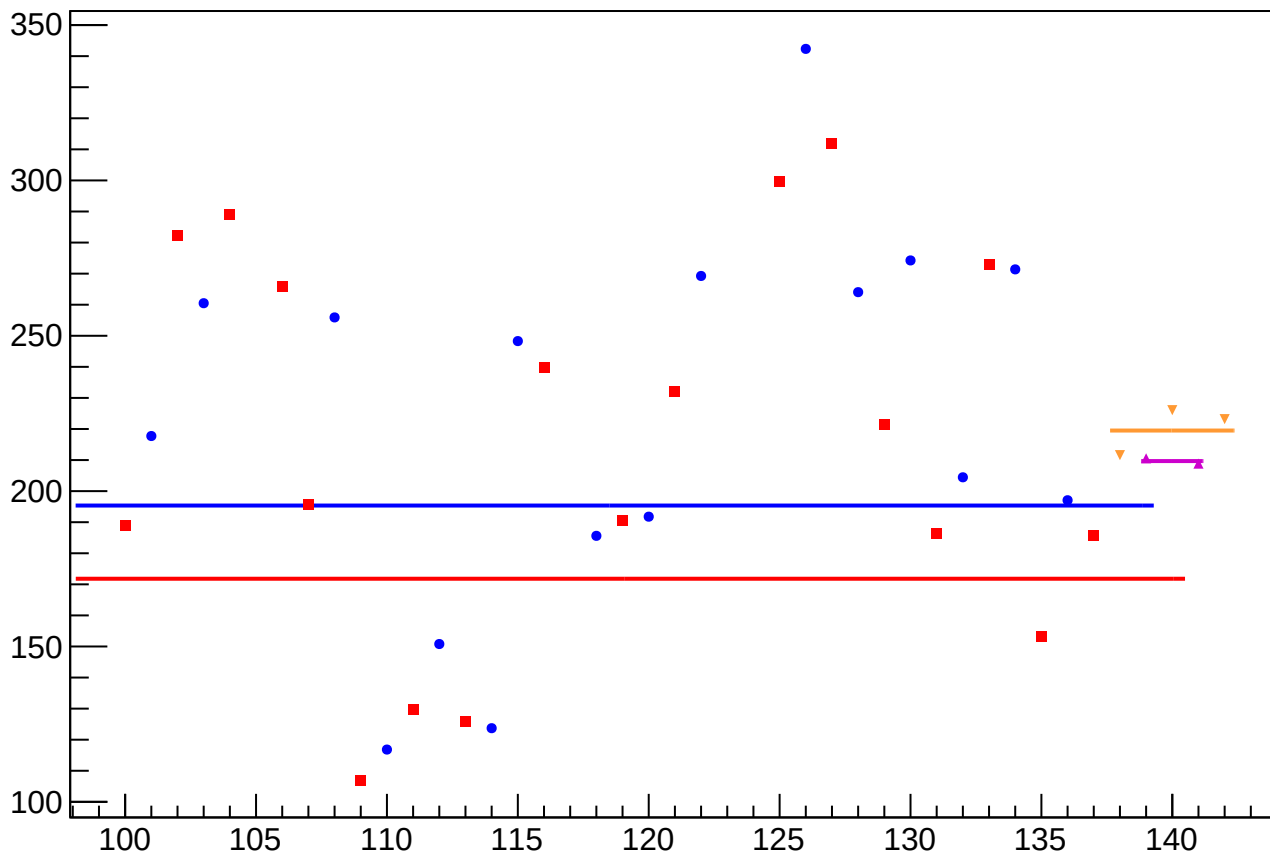
Right: -100.285 ± 51.280 $\chi^2/\text{NDF}: 27.6/33$

In: 10.673 ± 69.305 $\chi^2/\text{NDF}: 19.7/17$

Out: -77.282 ± 62.924 $\chi^2/\text{NDF}: 16.6/20$

All: -37.539 ± 46.587 $\chi^2/\text{NDF}: 37.2/38$

asym_bcm_dg_ds_an_us_avg_rms vs Slug, Sign Corrected



Right In: 195.361+/-0.054 χ^2/NDF : 1041432.1/15

Left Out: 219.502+/-0.109 χ^2/NDF : 3762.5/2

Right Out: 171.805+/-0.049 χ^2/NDF : 1600663.6/17

Left In: 209.674+/-0.114 χ^2/NDF : 56.0/1

Left: 214.783+/-0.079 χ^2/NDF : 7699.9/4

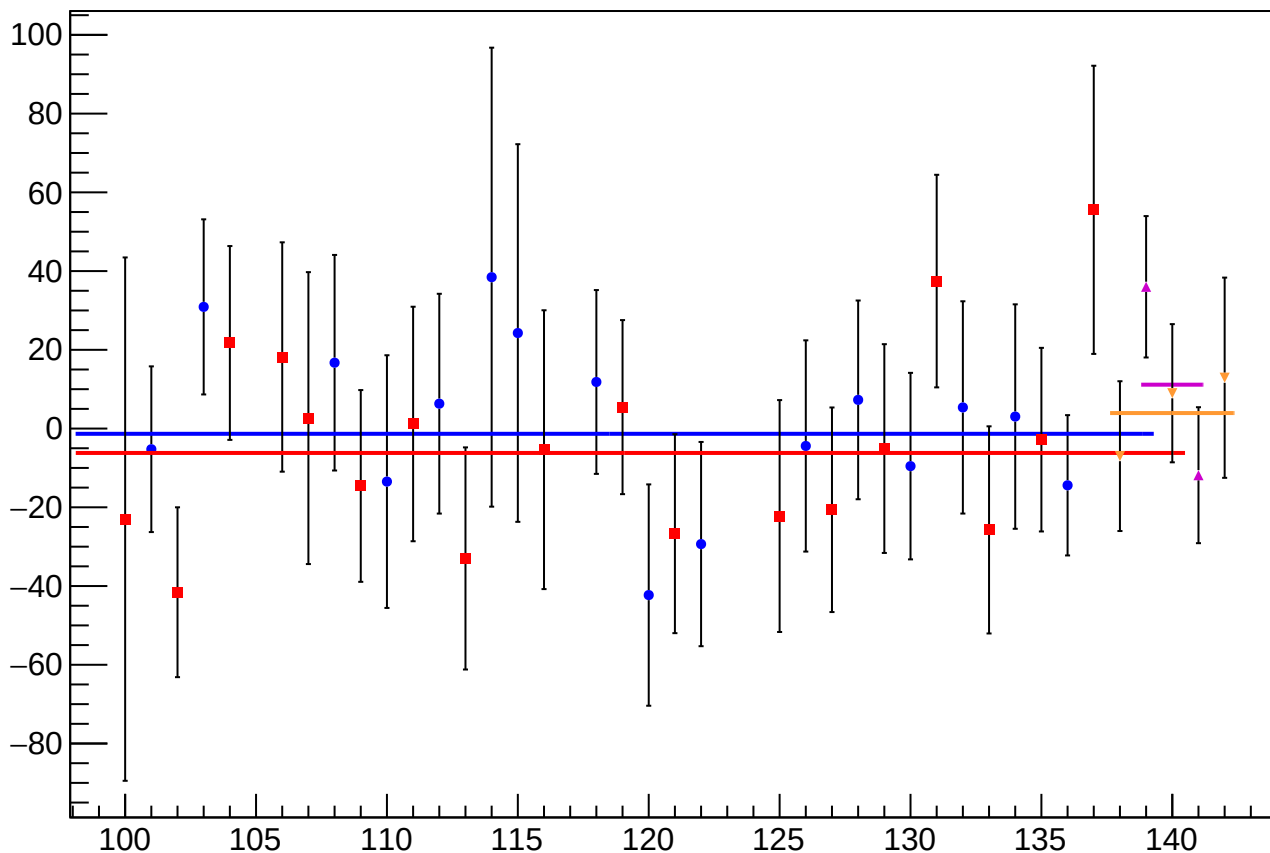
Right: 182.308+/-0.036 χ^2/NDF : 2746362.8/33

In: 198.018+/-0.049 χ^2/NDF : 1054382.3/17

Out: 179.707+/-0.044 χ^2/NDF : 1763265.8/20

All: 187.981+/-0.033 χ^2/NDF : 2894175.8/38

asym_bcm_dg_ds_an_us_dd_mean vs Slug, Sign Corrected



Right In: -1.331 ± 6.499 χ^2/NDF : 8.0/15

Left Out: 3.939 ± 11.504 χ^2/NDF : 0.5/2

Right Out: -6.195 ± 6.473 χ^2/NDF : 13.5/17

Left In: 11.147 ± 12.447 χ^2/NDF : 3.7/1

Left: 7.260 ± 8.448 χ^2/NDF : 4.4/4

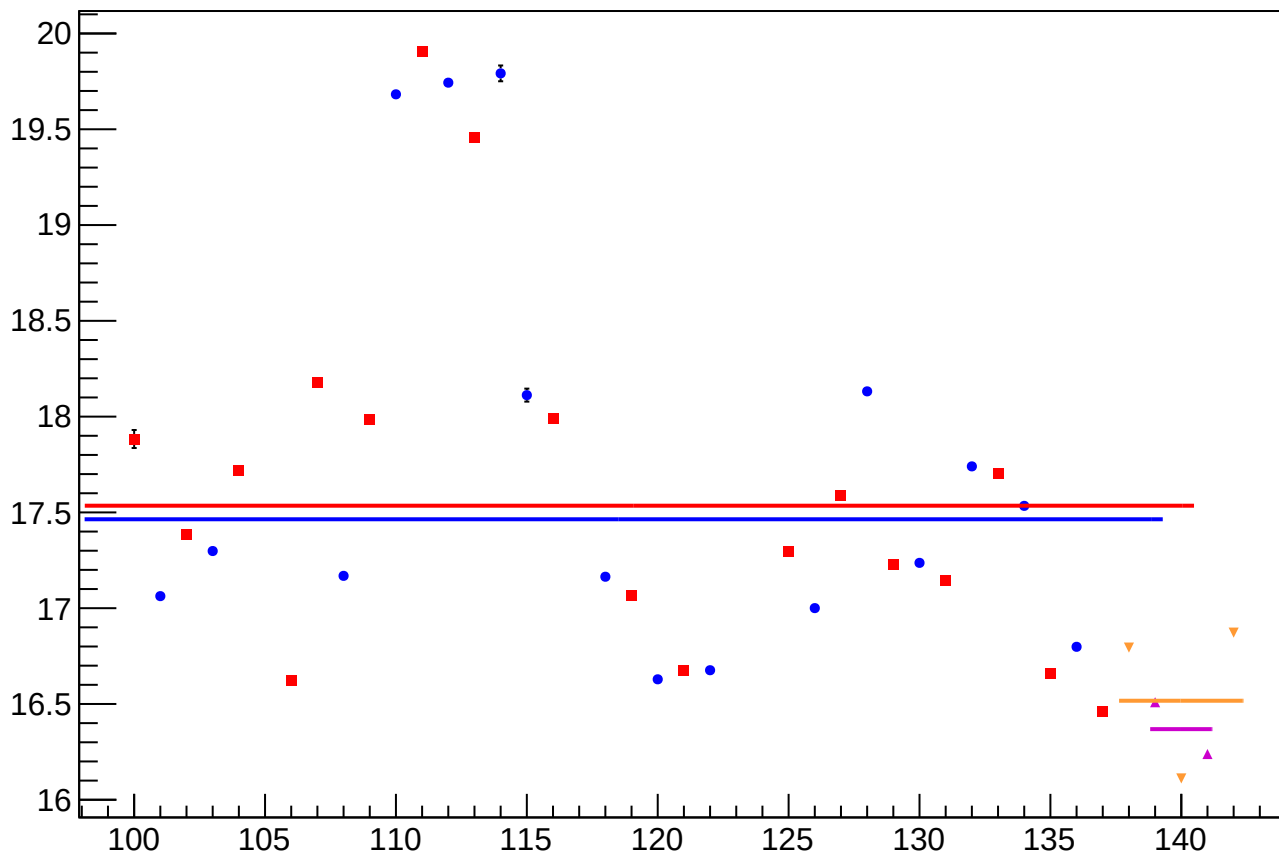
Right: -3.773 ± 4.586 χ^2/NDF : 21.8/33

In: 1.342 ± 5.761 χ^2/NDF : 12.5/17

Out: -3.758 ± 5.641 χ^2/NDF : 14.6/20

All: -1.262 ± 4.030 χ^2/NDF : 27.5/38

asym_bcm_dg_ds_an_us_dd_rms vs Slug, Sign Corrected



Right In: 17.464 $\pm$ 0.005 χ^2 /NDF: 36650.1/15

Left Out: 16.517 $\pm$ 0.008 χ^2 /NDF: 1883.9/2

Right Out: 17.535 $\pm$ 0.005 χ^2 /NDF: 34475.1/17

Left In: 16.369 $\pm$ 0.009 χ^2 /NDF: 235.5/1

Left: 16.449 $\pm$ 0.006 χ^2 /NDF: 2272.3/4

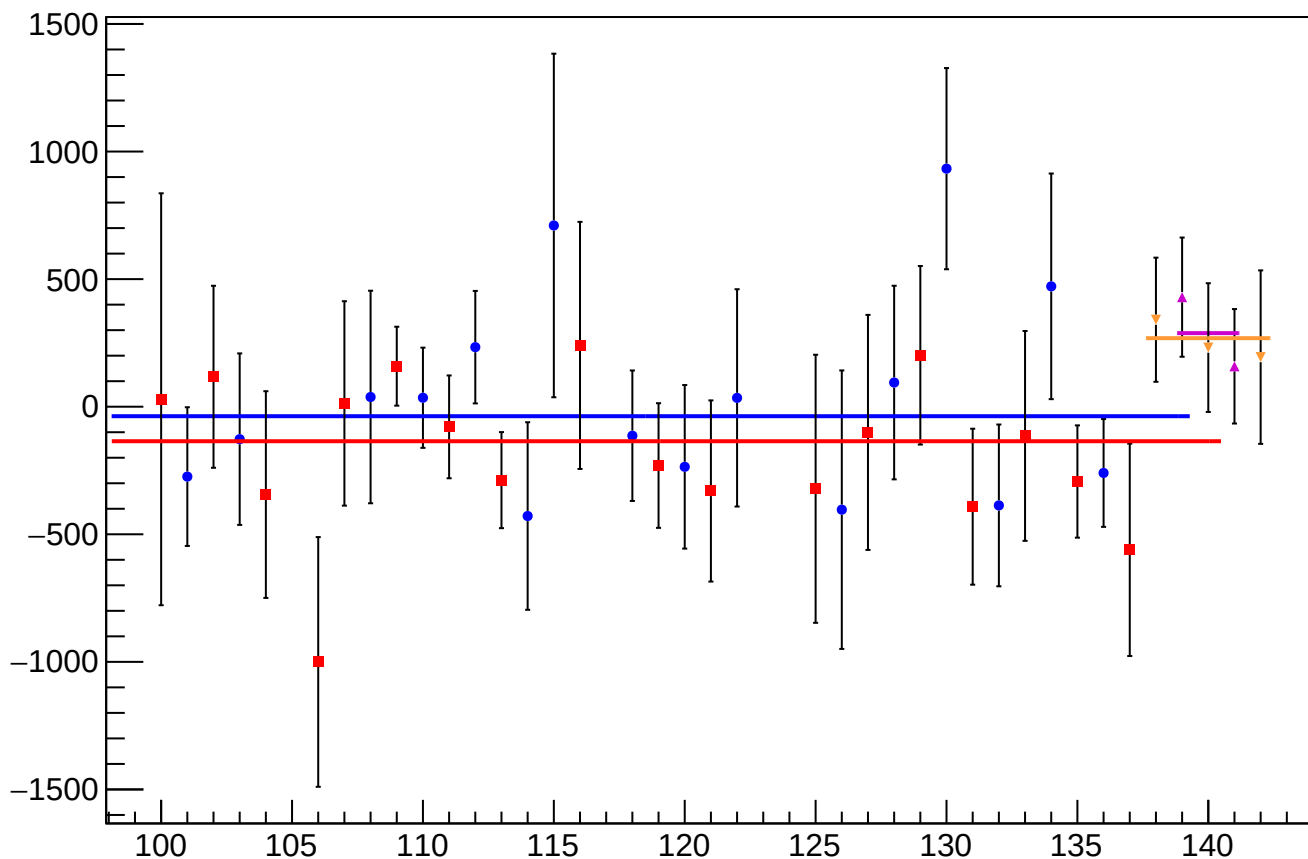
Right: 17.500 $\pm$ 0.003 χ^2 /NDF: 71244.5/33

In: 17.230 $\pm$ 0.004 χ^2 /NDF: 49059.1/17

Out: 17.290 $\pm$ 0.004 χ^2 /NDF: 48257.3/20

All: 17.260 $\pm$ 0.003 χ^2 /NDF: 97429.7/38

asym_bcm_dg_us_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -37.241+/-76.915 χ^2/NDF : 15.6/15

Left Out: 268.577+/-155.668 χ^2/NDF : 0.2/2

Right Out: -135.279+/-69.157 χ^2/NDF : 12.8/17

Left In: 288.365+/-161.769 χ^2/NDF : 0.7/1

Left: 278.091+/-112.169 χ^2/NDF : 0.9/4

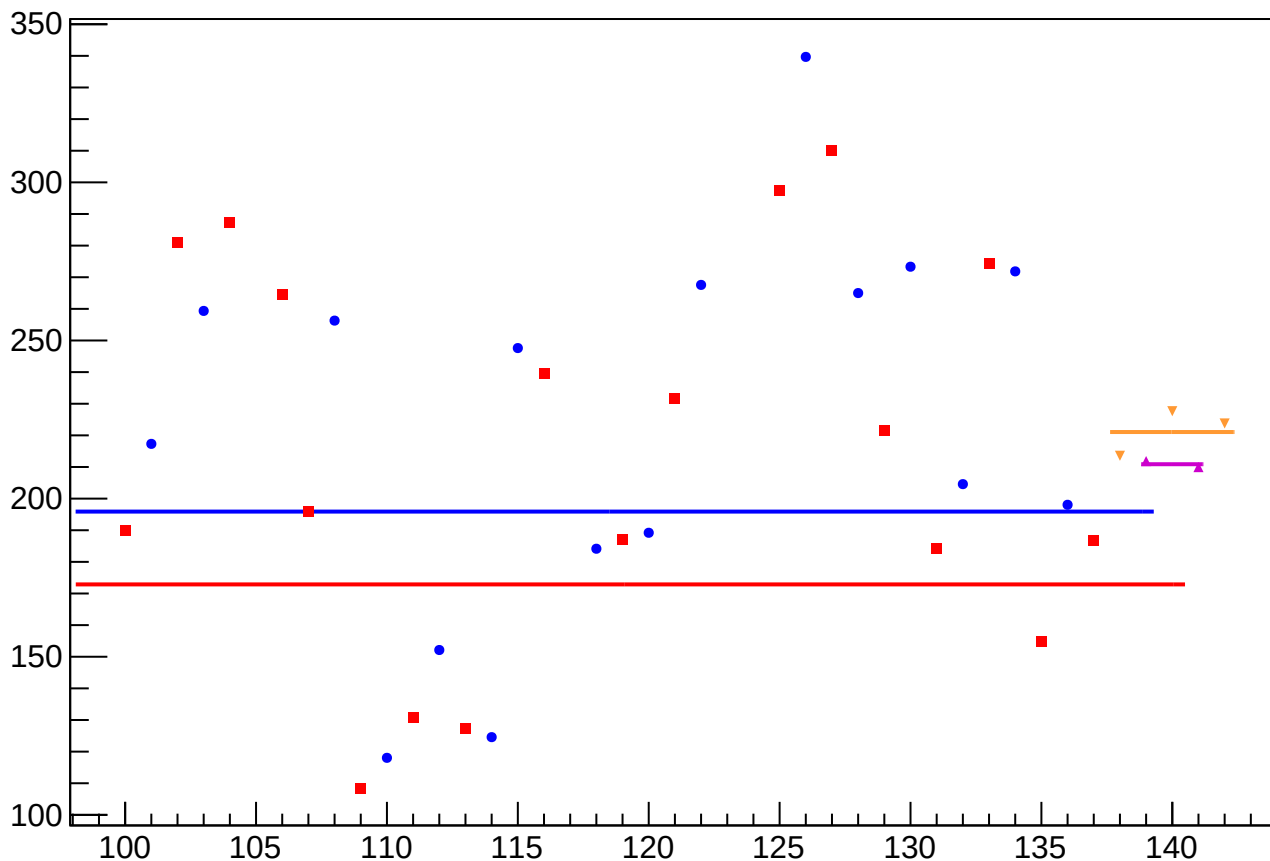
Right: -91.452+/-51.426 χ^2/NDF : 29.3/33

In: 22.795+/-69.463 χ^2/NDF : 19.7/17

Out: -68.709+/-63.201 χ^2/NDF : 18.6/20

All: -27.267+/-46.747 χ^2/NDF : 39.2/38

asym_bcm_dg_us_an_ds_avg_rms vs Slug, Sign Corrected



Right In: 195.900 $\pm$ 0.054 χ^2 /NDF: 1011012.3/15

Left Out: 221.057 $\pm$ 0.110 χ^2 /NDF:3392.0/2

Right Out: 172.873 $\pm$ 0.049 χ^2 /NDF: 1543258.3/17

Left In: 210.877 $\pm$ 0.114 χ^2 /NDF:69.6/1

Left: 216.163 $\pm$ 0.079 χ^2 /NDF: 7574.3/4

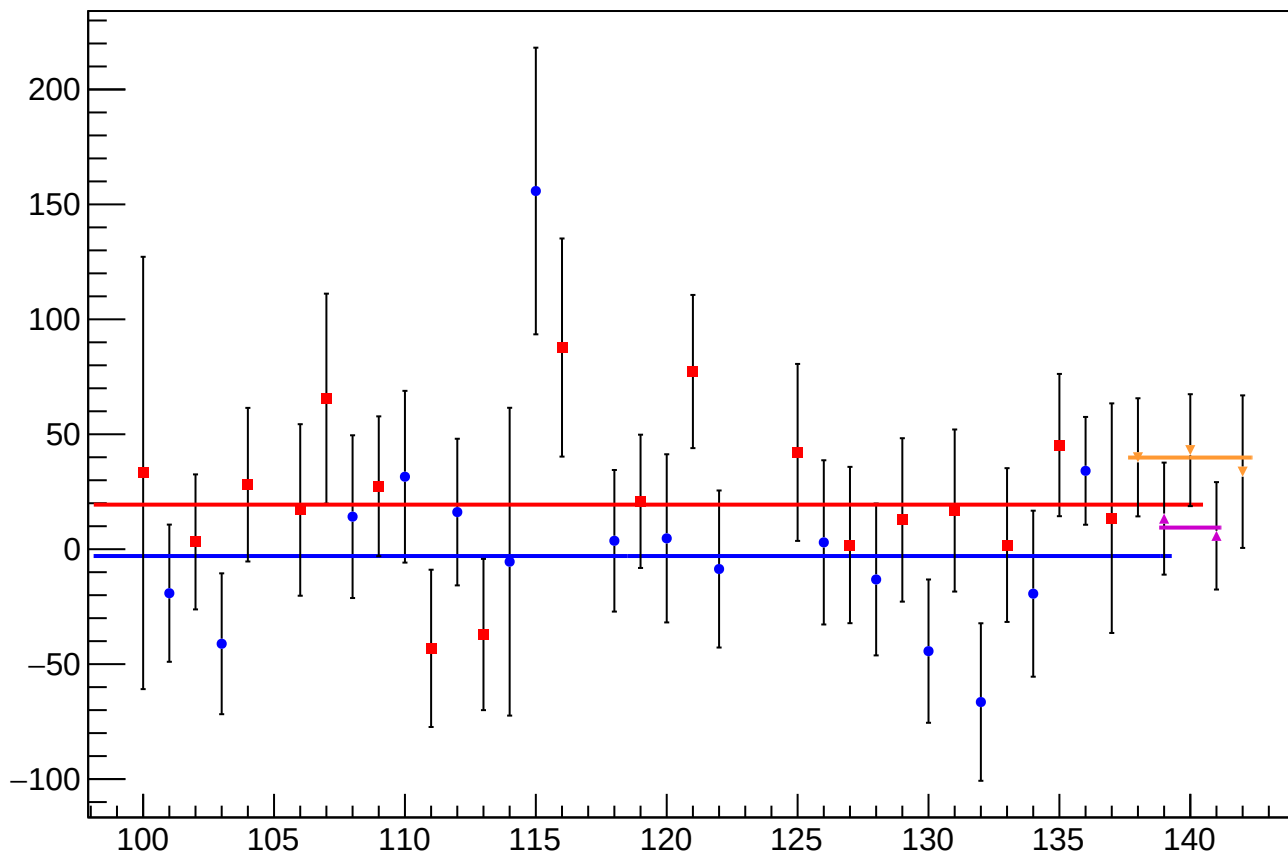
Right: 183.167 $\pm$ 0.036 χ^2 /NDF: 2653391.3/33

In: 198.661 $\pm$ 0.049 χ^2 /NDF:1025064.5/17

Out: 180.815 $\pm$ 0.045 χ^2 /NDF:1706686.1/20

All: 188.898 $\pm$ 0.033 χ^2 /NDF: 2803970.2/38

asym_bcm_dg_us_an_ds_dd_mean vs Slug, Sign Corrected



Right In: -2.967 $\pm$ 8.454 χ^2/NDF : 17.9/15

Left Out: 39.872 $\pm$ 15.598 χ^2/NDF : 0.1/2

Right Out: 19.387 $\pm$ 8.381 χ^2/NDF : 14.5/17

Left In: 9.404 $\pm$ 16.865 χ^2/NDF : 0.0/1

Left: 25.825 $\pm$ 11.451 χ^2/NDF : 1.9/4

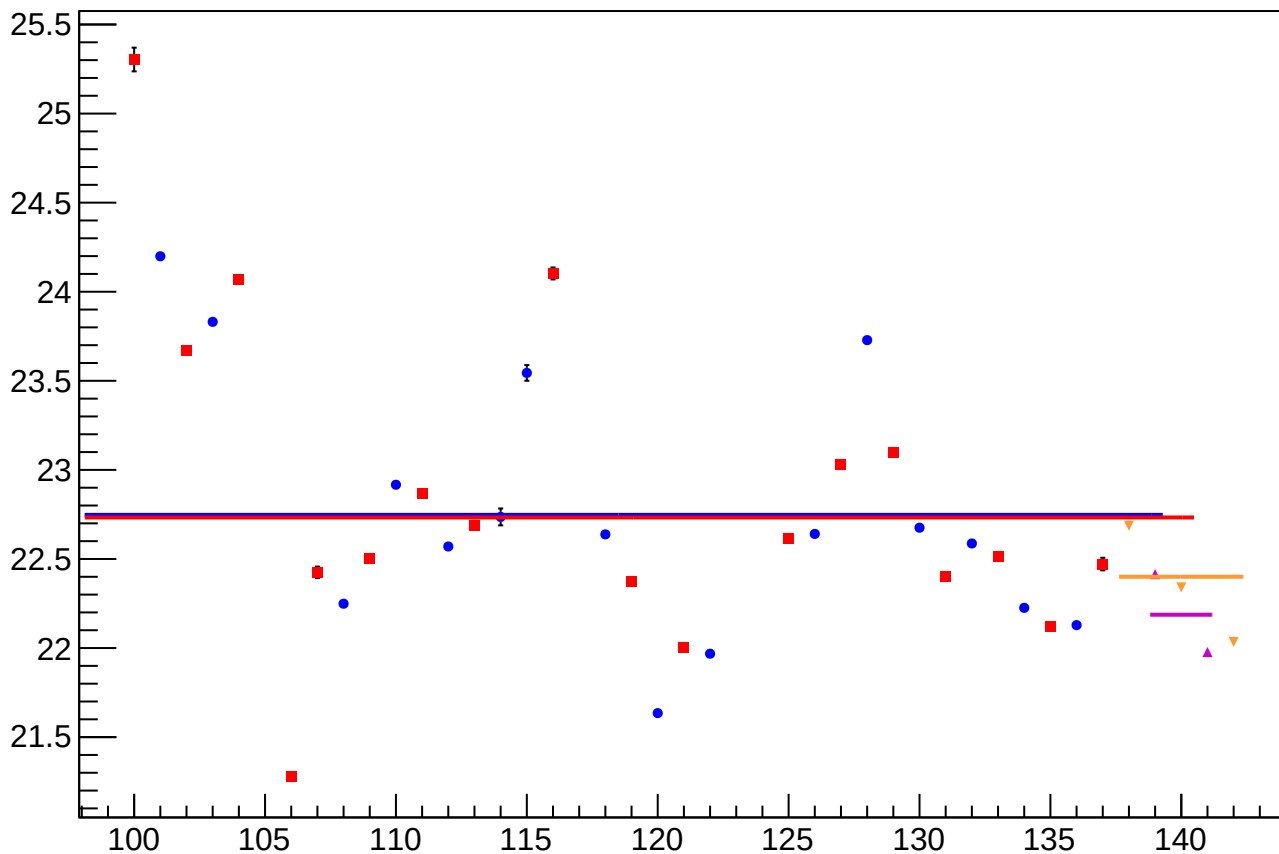
Right: 8.306 $\pm$ 5.952 χ^2/NDF : 36.0/33

In: -0.483 $\pm$ 7.558 χ^2/NDF : 18.4/17

Out: 23.977 $\pm$ 7.383 χ^2/NDF : 15.9/20

All: 12.033 $\pm$ 5.281 χ^2/NDF : 39.7/38

asym_bcm_dg_us_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 22.747 $\pm$ 0.006 χ^2 /NDF: 14622.8/15

Left Out: 22.400 $\pm$ 0.011 χ^2 /NDF: 503.6/2

Right Out: 22.733 $\pm$ 0.006 χ^2 /NDF: 14389.6/17

Left In: 22.187 $\pm$ 0.012 χ^2 /NDF: 335.3/1

Left: 22.302 $\pm$ 0.008 χ^2 /NDF: 1011.1/4

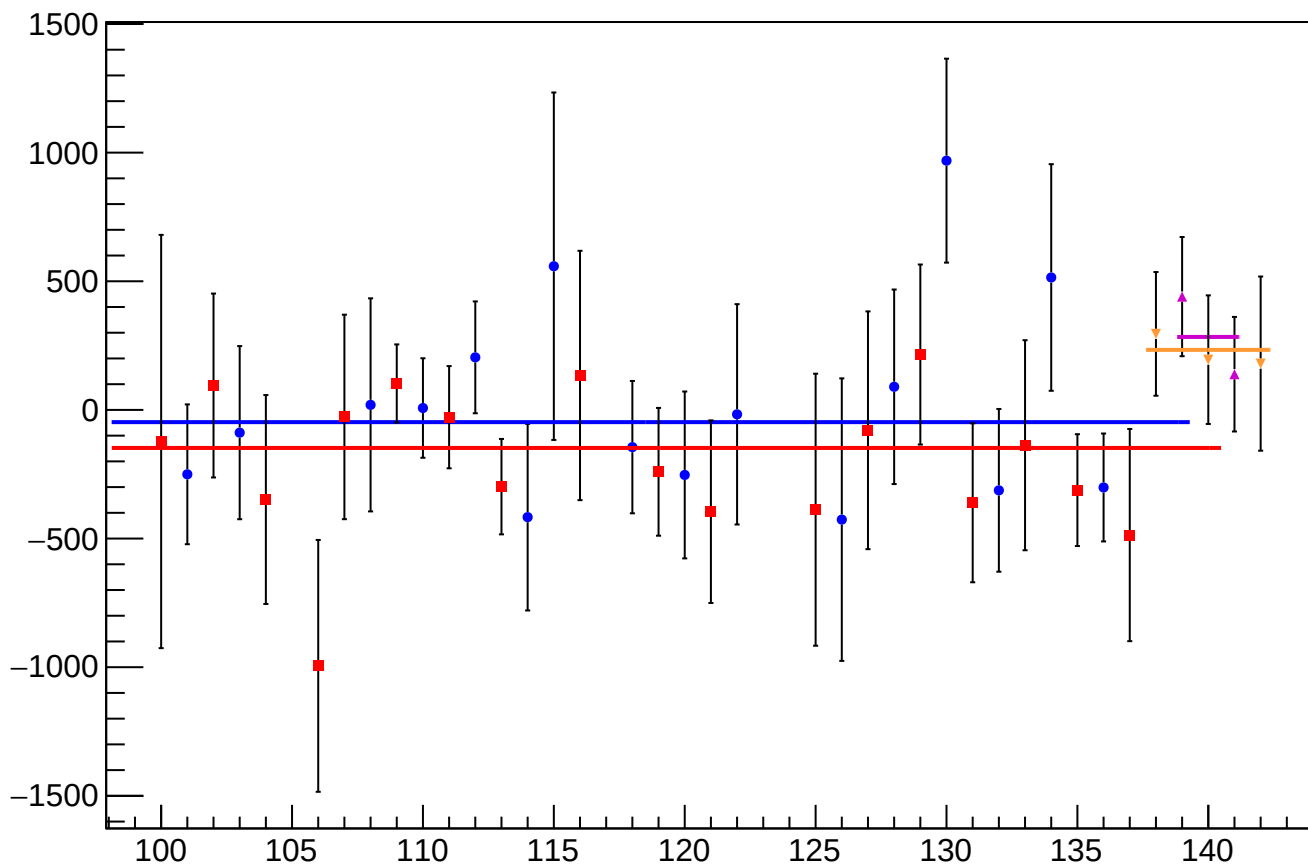
Right: 22.740 $\pm$ 0.004 χ^2 /NDF: 29015.4/33

In: 22.635 $\pm$ 0.005 χ^2 /NDF: 16722.9/17

Out: 22.658 $\pm$ 0.005 χ^2 /NDF: 15599.4/20

All: 22.647 $\pm$ 0.004 χ^2 /NDF: 32332.1/38

asym_bcm_dg_ds_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -47.523 ± 76.571 χ^2/NDF : 15.4/15

Left Out: 233.366 ± 154.215 χ^2/NDF : 0.1/2

Right Out: -147.812 ± 68.660 χ^2/NDF : 11.5/17

Left In: 283.621 ± 160.511 χ^2/NDF : 0.9/1

Left: 257.489 ± 111.206 χ^2/NDF : 1.0/4

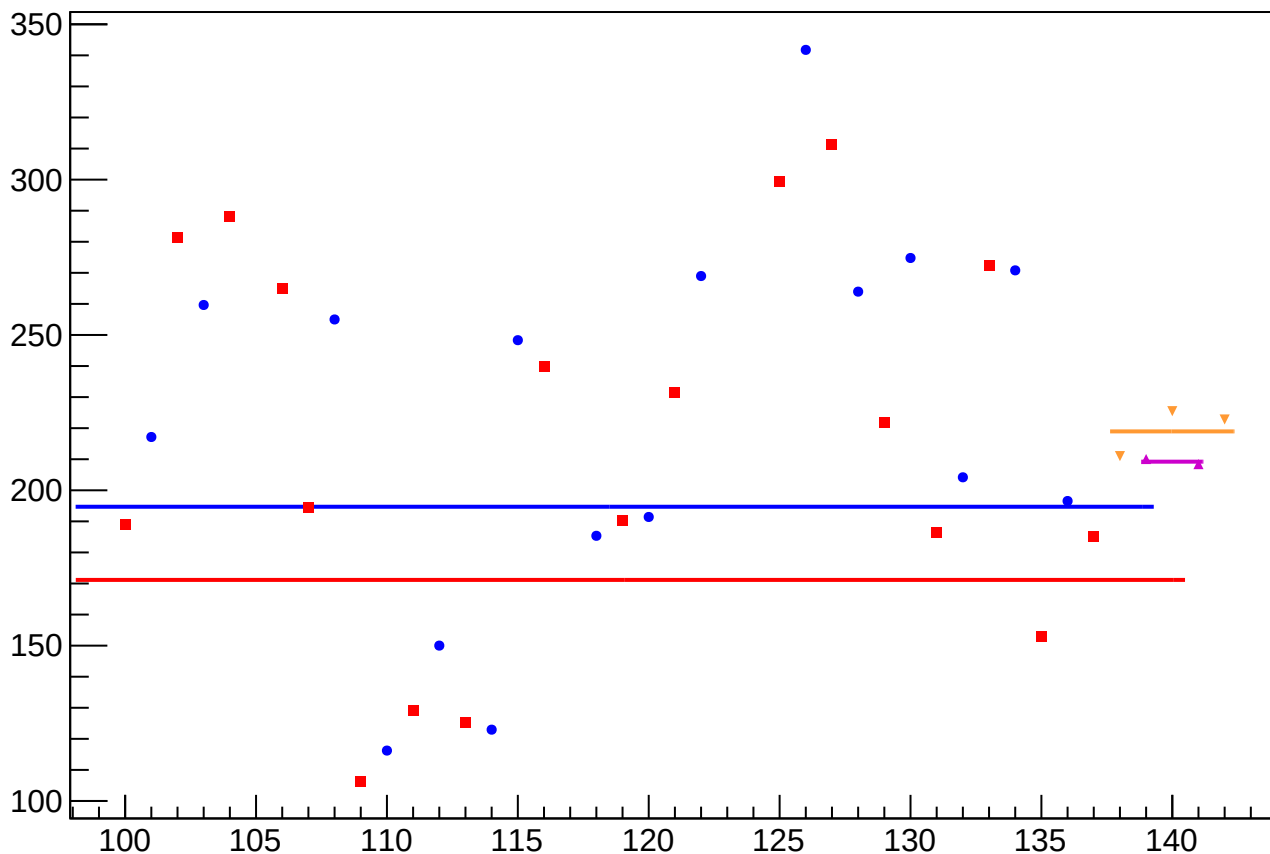
Right: -103.114 ± 51.119 χ^2/NDF : 27.9/33

In: 13.866 ± 69.110 χ^2/NDF : 19.7/17

Out: -84.754 ± 62.724 χ^2/NDF : 16.7/20

All: -40.210 ± 46.446 χ^2/NDF : 37.6/38

asym_bcm_dg_ds_an_ds_avg_rms vs Slug, Sign Corrected



Right In: 194.708+/-0.054 χ^2/NDF : 1052288.9/15

Left Out: 218.960+/-0.109 χ^2/NDF :3804.8/2

Right Out: 171.156+/-0.049 χ^2/NDF : 1611935.6/17

Left In: 209.217+/-0.113 χ^2/NDF :52.3/1

Left: 214.283+/-0.079 χ^2/NDF : 7689.2/4

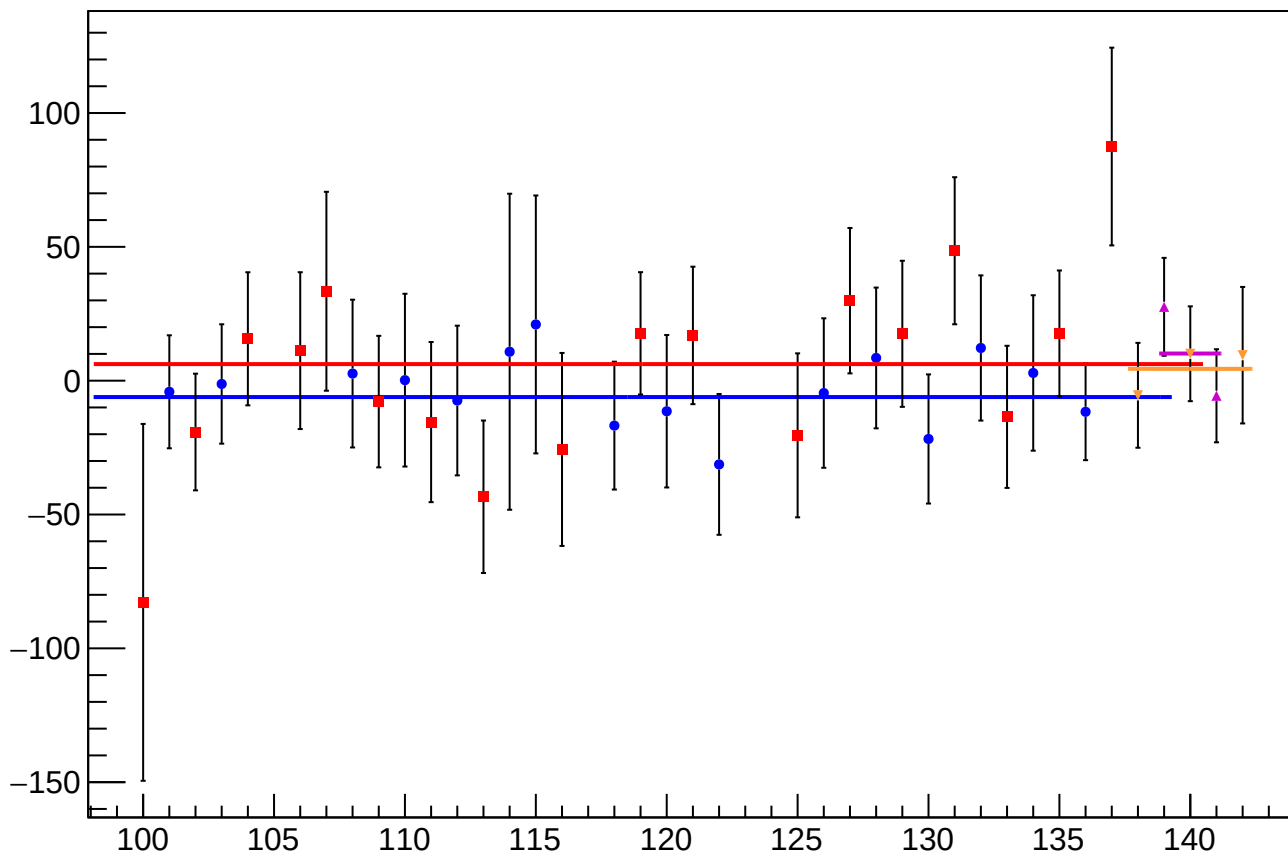
Right: 181.653+/-0.036 χ^2/NDF : 2769105.7/33

In: 197.398+/-0.049 χ^2/NDF :1065653.3/17

Out: 179.065+/-0.044 χ^2/NDF :1776126.0/20

All: 187.345+/-0.033 χ^2/NDF : 2918952.0/38

asym_bcm_dg_ds_an_ds_dd_mean vs Slug, Sign Corrected



Right In: -6.119 ± 6.592 $\chi^2/\text{NDF}: 3.1/15$

Left Out: 4.427 ± 11.679 $\chi^2/\text{NDF}: 0.4/2$

Right Out: 6.195 ± 6.580 $\chi^2/\text{NDF}: 18.6/17$

Left In: 10.143 ± 12.602 $\chi^2/\text{NDF}: 1.7/1$

Left: 7.068 ± 8.566 $\chi^2/\text{NDF}: 2.2/4$

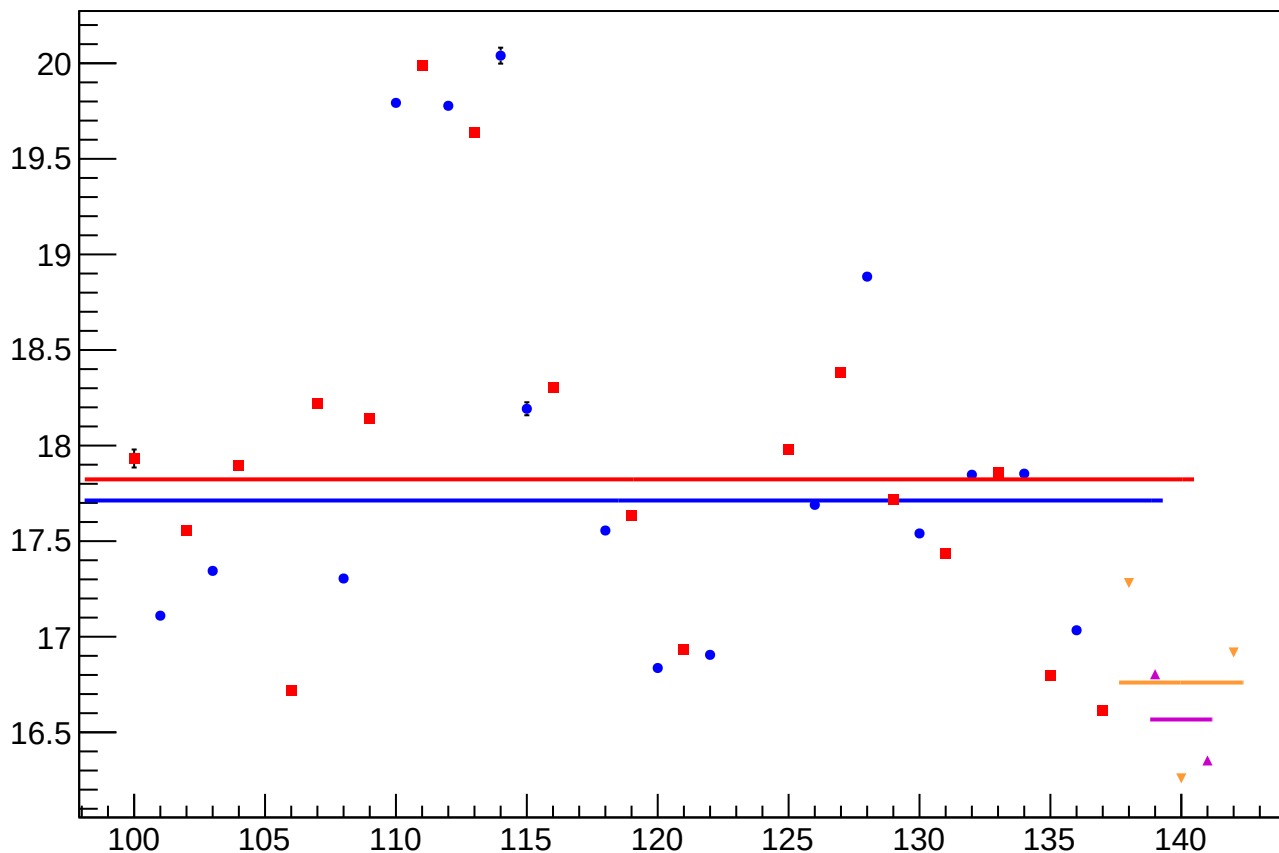
Right: 0.049 ± 4.657 $\chi^2/\text{NDF}: 23.5/33$

In: -2.625 ± 5.841 $\chi^2/\text{NDF}: 6.2/17$

Out: 5.769 ± 5.733 $\chi^2/\text{NDF}: 19.0/20$

All: 1.650 ± 4.092 $\chi^2/\text{NDF}: 26.3/38$

asym_bcm_dg_ds_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 17.713+/-0.005 χ^2/NDF : 35983.5/15

Left Out: 16.760+/-0.008 χ^2/NDF : 3090.6/2

Right Out: 17.823+/-0.005 χ^2/NDF : 32502.9/17

Left In: 16.567+/-0.009 χ^2/NDF : 638.7/1

Left: 16.671+/-0.006 χ^2/NDF : 3982.3/4

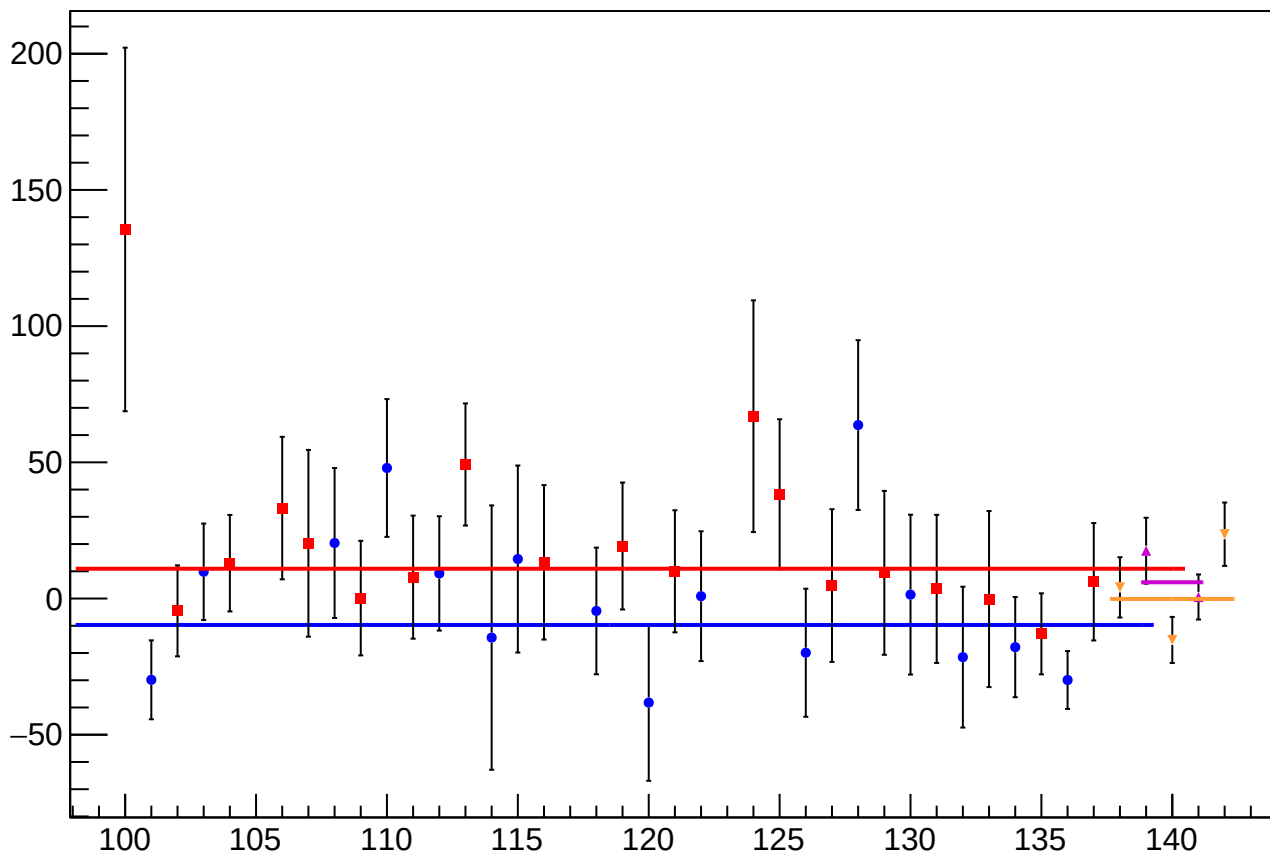
Right: 17.768+/-0.003 χ^2/NDF : 68768.1/33

In: 17.467+/-0.004 χ^2/NDF : 49598.9/17

Out: 17.567+/-0.004 χ^2/NDF : 48166.6/20

All: 17.518+/-0.003 χ^2/NDF : 98067.5/38

diff_bpm_4aX_4acX_avg_mean vs Slug, Sign Corrected



Right In: -9.702 $\pm$ 5.231 χ^2/NDF : 22.0/15

Left Out: -0.156 $\pm$ 5.817 χ^2/NDF : 7.5/2

Right Out: 10.938 $\pm$ 5.436 χ^2/NDF : 14.1/18

Left In: 5.972 $\pm$ 6.829 χ^2/NDF : 1.3/1

Left: 2.420 $\pm$ 4.428 χ^2/NDF : 9.3/4

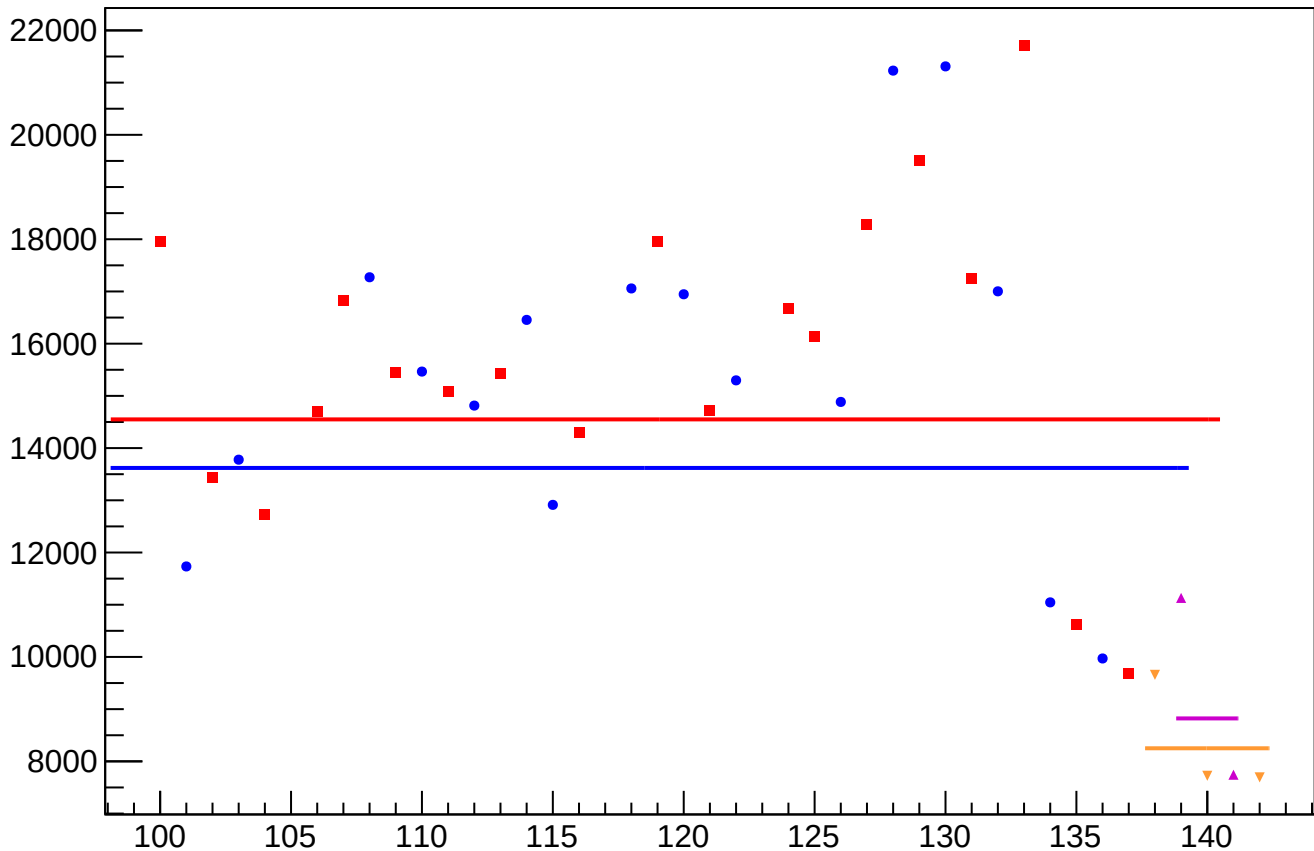
Right: 0.222 $\pm$ 3.769 χ^2/NDF : 43.6/34

In: -3.905 $\pm$ 4.153 χ^2/NDF : 26.7/17

Out: 5.766 $\pm$ 3.972 χ^2/NDF : 23.5/21

All: 1.146 $\pm$ 2.870 χ^2/NDF : 53.0/39

diff_bpm_4aX_4acX_avg_rms vs Slug, Sign Corrected



Right In: 13619.845 $\pm$ 3.699 χ^2/NDF : 746985.9/15

Left Out: 8250.363 $\pm$ 4.113 χ^2/NDF : 44677.2/2

Right Out: 14549.658 $\pm$ 3.844 χ^2/NDF : 555902.2/18

Left In: 8822.370 $\pm$ 4.829 χ^2/NDF : 106752.6/1

Left: 8490.869 $\pm$ 3.131 χ^2/NDF : 159562.4/4

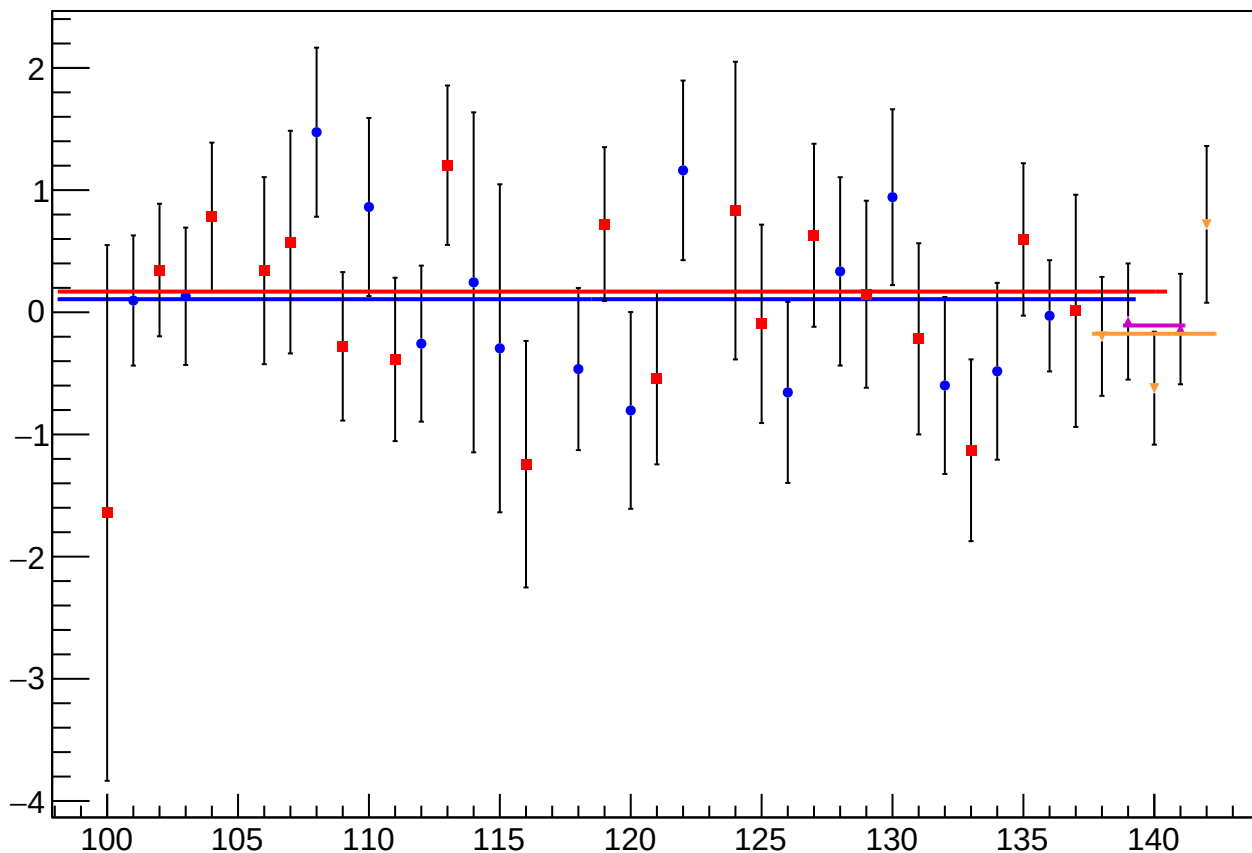
Right: 14066.907 $\pm$ 2.665 χ^2/NDF : 1333265.9/34

In: 11845.589 $\pm$ 2.937 χ^2/NDF : 1475786.5/17

Out: 11612.688 $\pm$ 2.808 χ^2/NDF : 1852657.0/21

All: 11723.946 $\pm$ 2.030 χ^2/NDF : 3331728.9/3

diff_bpm_4aX_4acX_dd_mean vs Slug, Sign Corrected



Right In: 0.107 $\pm$ 0.172 χ^2 /NDF: 13.7/15

Left Out: -0.176 $\pm$ 0.297 χ^2 /NDF:2.9/2

Right Out: 0.169 $\pm$ 0.169 χ^2 /NDF: 14.1/18

Left In: -0.108 $\pm$ 0.328 χ^2 /NDF:0.0/1

Left: -0.145 $\pm$ 0.220 χ^2 /NDF: 2.9/4

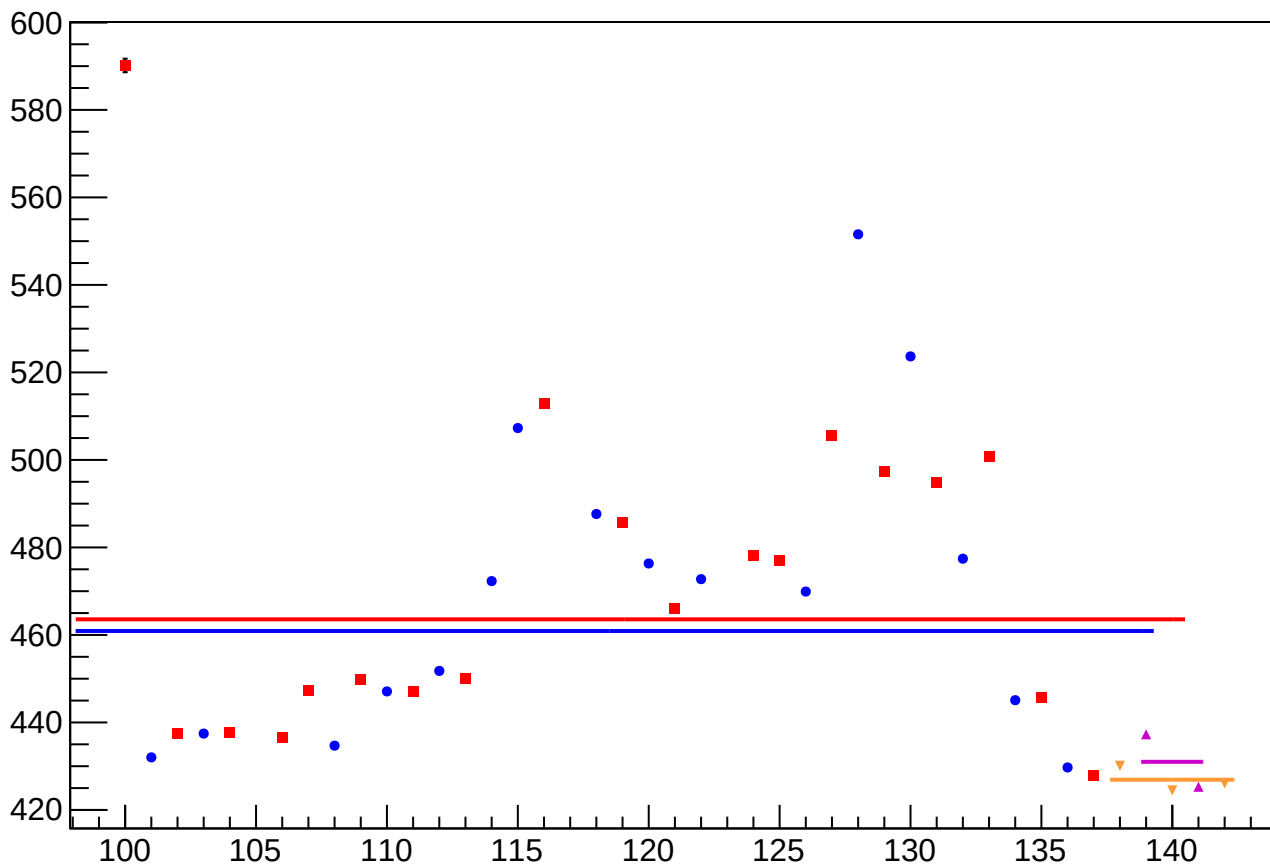
Right: 0.139 $\pm$ 0.121 χ^2 /NDF: 27.8/34

In: 0.061 $\pm$ 0.152 χ^2 /NDF:14.0/17

Out: 0.085 $\pm$ 0.147 χ^2 /NDF:18.0/21

All: 0.073 $\pm$ 0.106 χ^2 /NDF: 32.0/39

diff_bpm_4aX_4acX_dd_rms vs Slug, Sign Corrected



Right In: 460.906 $\pm$ 0.121 χ^2 /NDF: 74930.1/15

Left Out: 426.911 $\pm$ 0.210 χ^2 /NDF:144.7/2

Right Out: 463.573 $\pm$ 0.120 χ^2 /NDF: 52175.6/18

Left In: 431.002 $\pm$ 0.232 χ^2 /NDF:668.2/1

Left: 428.757 $\pm$ 0.156 χ^2 /NDF: 984.0/4

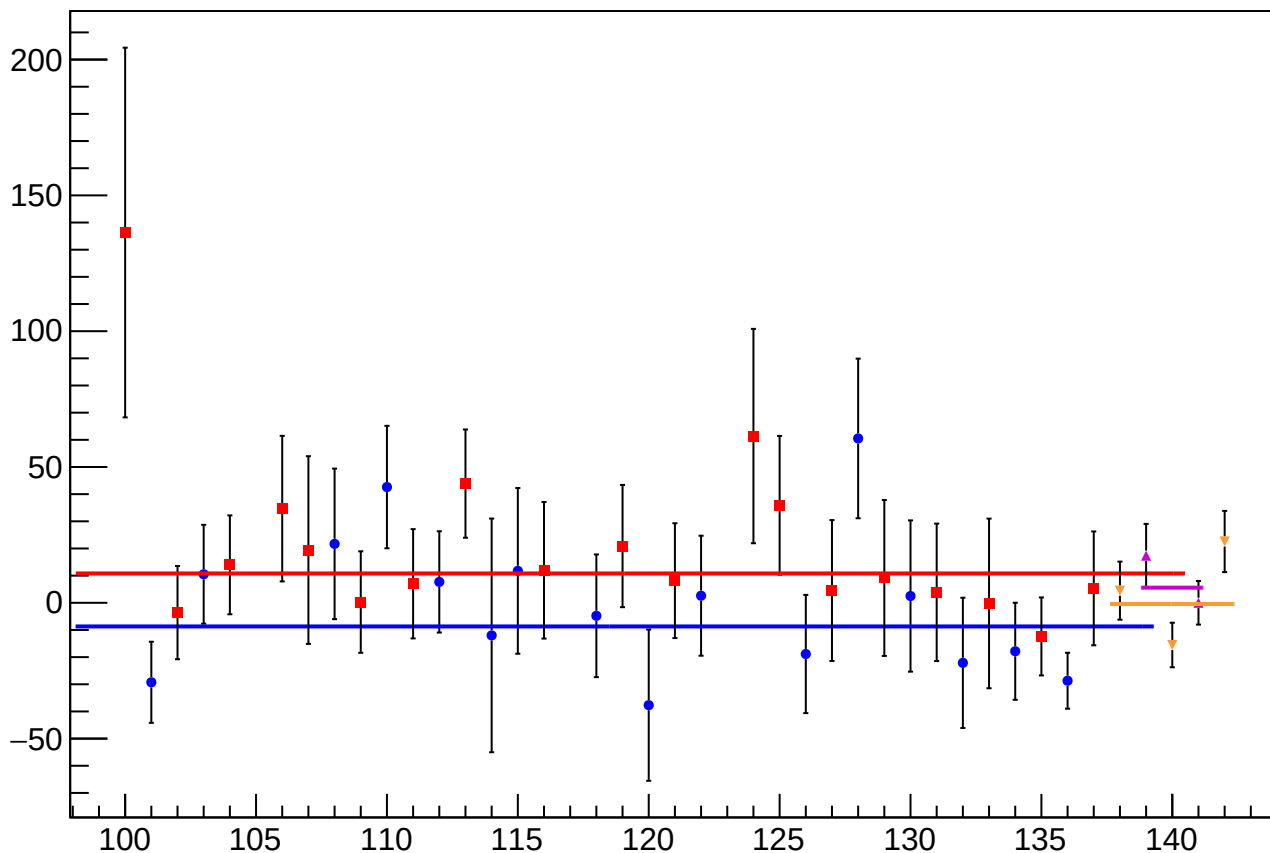
Right: 462.257 $\pm$ 0.085 χ^2 /NDF: 127350.1/34

In: 454.460 $\pm$ 0.108 χ^2 /NDF:88675.0/17

Out: 454.576 $\pm$ 0.104 χ^2 /NDF:75301.0/21

All: 454.520 $\pm$ 0.075 χ^2 /NDF: 163976.6/39

diff_bpm_4aX_4eX_avg_mean vs Slug, Sign Corrected



Right In: -8.707 ± 5.036 $\chi^2/\text{NDF}: 22.3/15$

Left Out: -0.450 ± 5.636 $\chi^2/\text{NDF}: 7.8/2$

Right Out: 10.807 ± 5.192 $\chi^2/\text{NDF}: 13.9/18$

Left In: 5.570 ± 6.620 $\chi^2/\text{NDF}: 1.5/1$

Left: 2.080 ± 4.292 $\chi^2/\text{NDF}: 9.7/4$

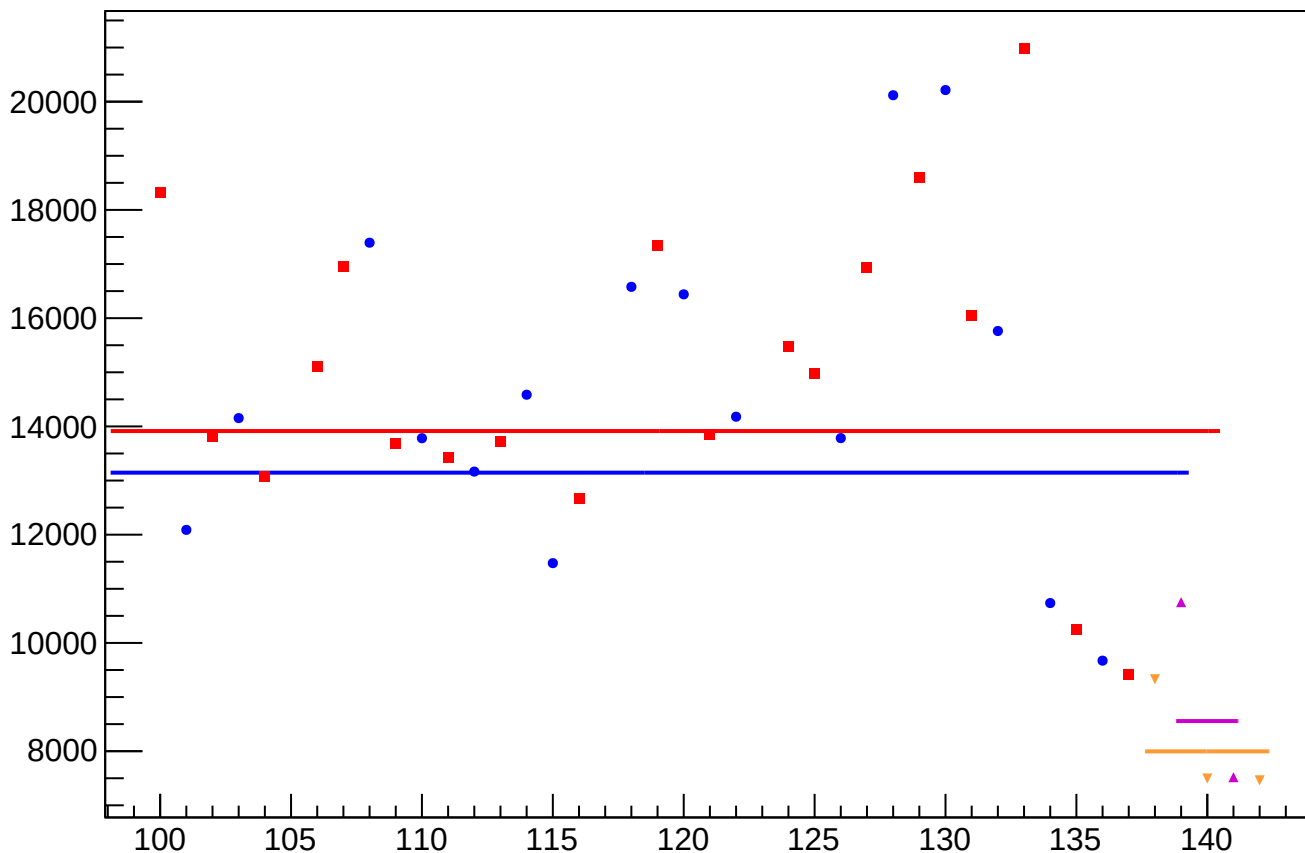
Right: 0.753 ± 3.615 $\chi^2/\text{NDF}: 43.4/34$

In: -3.474 ± 4.008 $\chi^2/\text{NDF}: 26.7/17$

Out: 5.640 ± 3.819 $\chi^2/\text{NDF}: 23.8/21$

All: 1.303 ± 2.765 $\chi^2/\text{NDF}: 53.2/39$

diff_bpm_4aX_4eX_avg_rms vs Slug, Sign Corrected



Right In: 13145.853+/-3.561 χ^2/NDF : 682620.1/15

Left Out: 7996.707+/-3.985 χ^2/NDF : 43065.4/2

Right Out: 13914.770+/-3.671 χ^2/NDF : 511000.7/18

Left In: 8556.704+/-4.681 χ^2/NDF : 103936.8/1

Left: 8232.035+/-3.035 χ^2/NDF : 155298.7/4

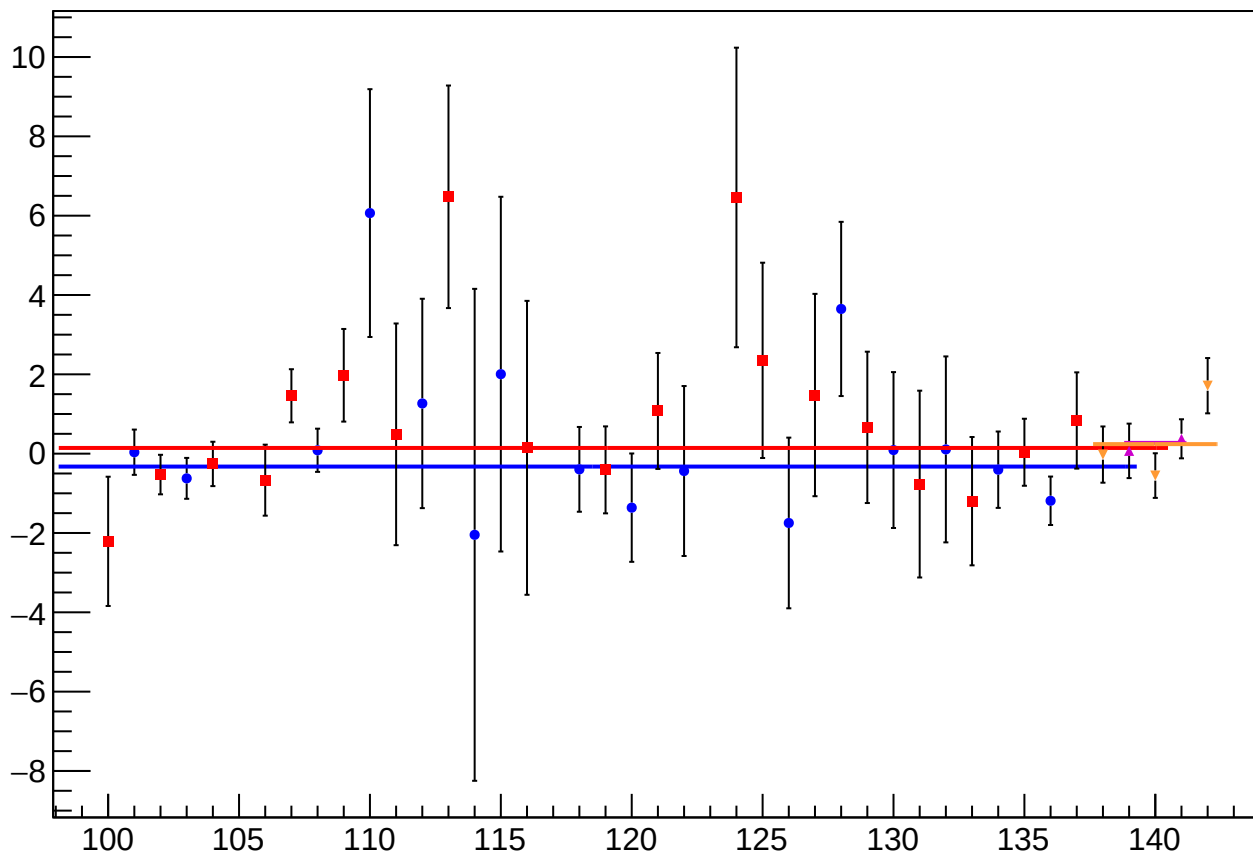
Right: 13518.600+/-2.556 χ^2/NDF : 1216225.3/34

In: 11463.829+/-2.834 χ^2/NDF : 1395345.5/17

Out: 11198.420+/-2.700 χ^2/NDF : 1746956.7/21

All: 11324.704+/-1.955 χ^2/NDF : 3146899.5/3

diff_bpm_4aX_4eX_dd_mean vs Slug, Sign Corrected



Right In: -0.326 ± 0.244 χ^2/NDF : 12.6/15

Left Out: 0.240 ± 0.372 χ^2/NDF : 6.6/2

Right Out: 0.144 ± 0.244 χ^2/NDF : 22.5/18

Left In: 0.271 ± 0.400 χ^2/NDF : 0.1/1

Left: 0.255 ± 0.273 χ^2/NDF : 6.7/4

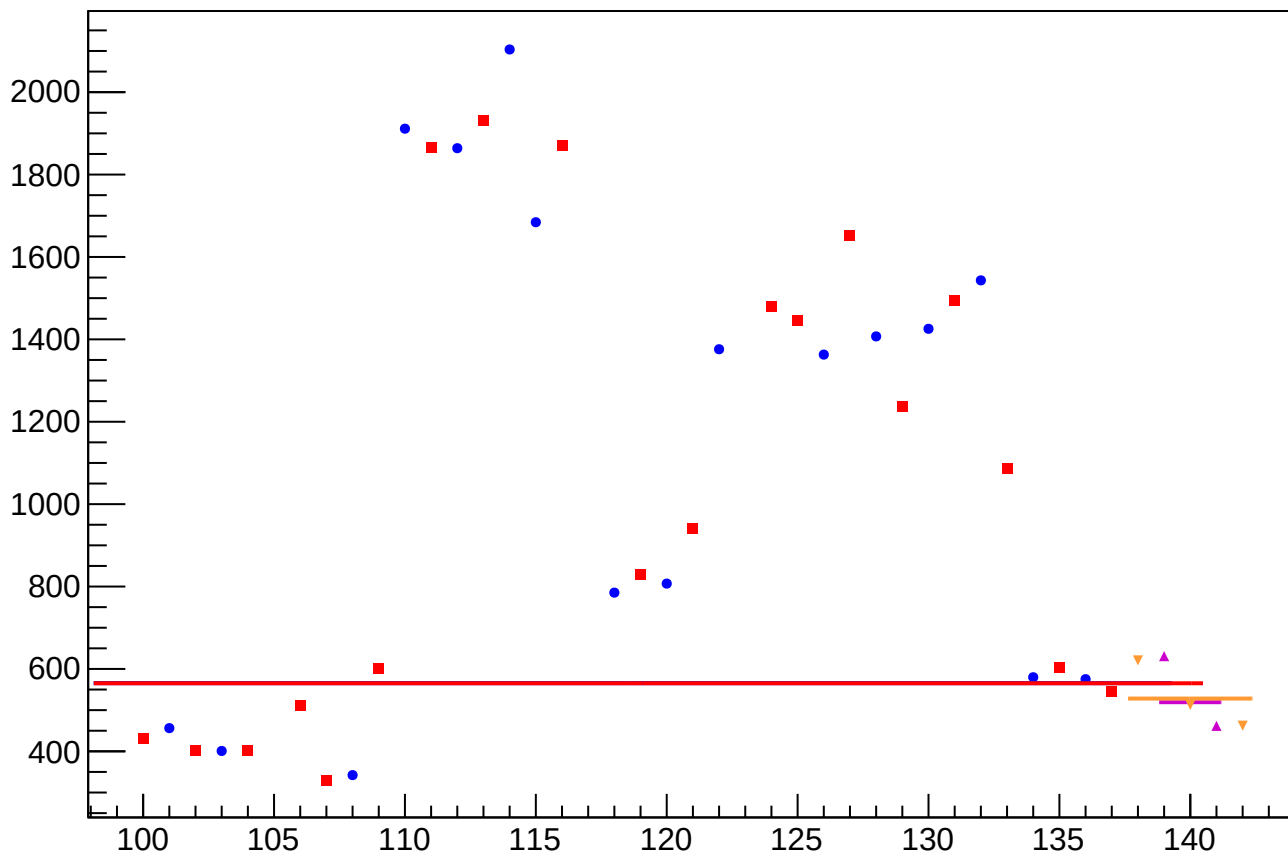
Right: -0.091 ± 0.173 χ^2/NDF : 36.9/34

In: -0.164 ± 0.208 χ^2/NDF : 14.3/17

Out: 0.173 ± 0.204 χ^2/NDF : 29.1/21

All: 0.008 ± 0.146 χ^2/NDF : 44.8/39

diff_bpm_4aX_4eX_dd_rms vs Slug, Sign Corrected



Right In: 565.531+/-0.173 χ^2/NDF : 3450533.8/15

Left Out: 528.089+/-0.263 χ^2/NDF : 53536.4/2

Right Out: 565.223+/-0.173 χ^2/NDF : 3571620.7/18

Left In: 519.286+/-0.283 χ^2/NDF : 80115.8/1

Left: 524.004+/-0.193 χ^2/NDF : 134170.8/4

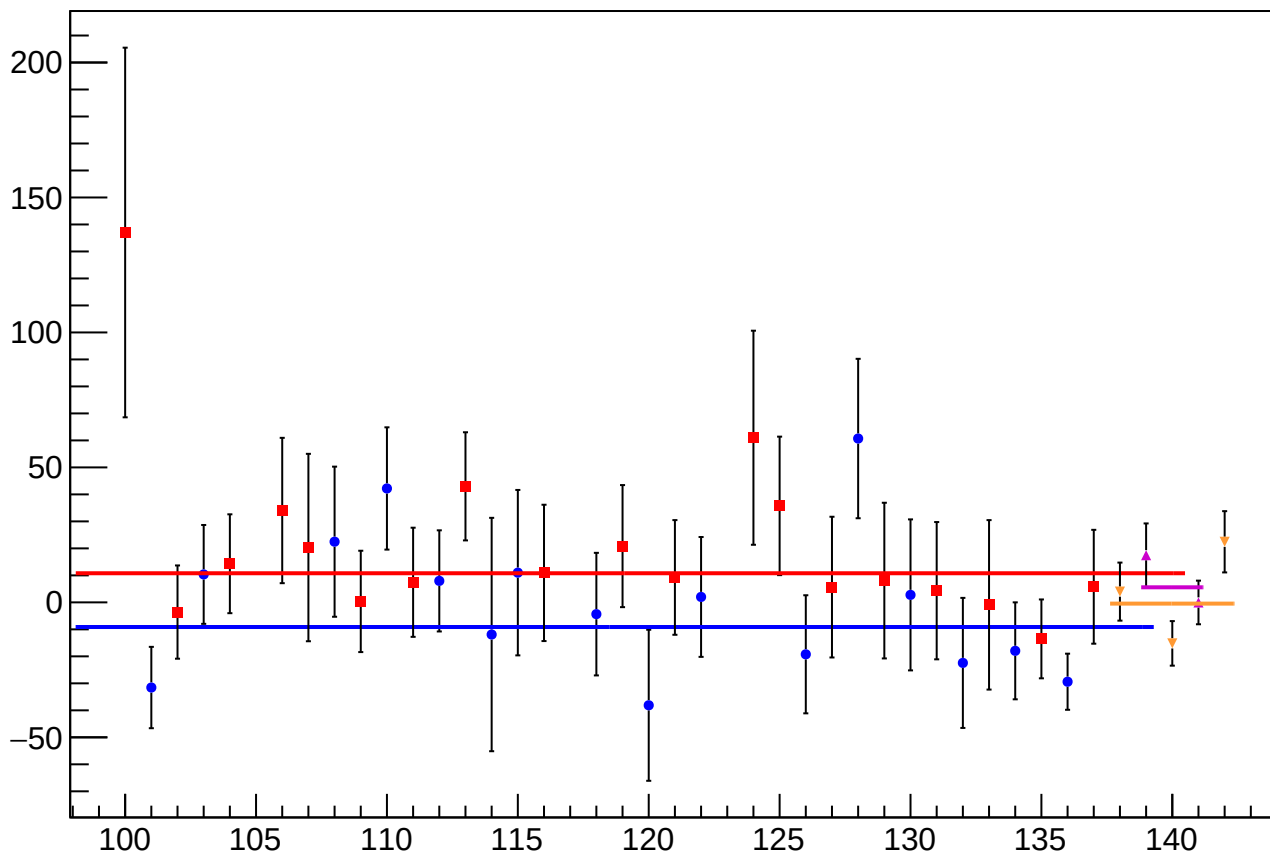
Right: 565.377+/-0.122 χ^2/NDF : 7022156.1/34

In: 552.992+/-0.147 χ^2/NDF : 3550109.4/17

Out: 554.046+/-0.144 χ^2/NDF : 3639057.0/21

All: 553.529+/-0.103 χ^2/NDF : 7189192.6/39

diff_bpm_4aX_4ecX_avg_mean vs Slug, Sign Corrected



Right In: -9.130 ± 5.069 χ^2/NDF : 22.7/15

Left Out: -0.462 ± 5.671 χ^2/NDF : 7.4/2

Right Out: 10.788 ± 5.227 χ^2/NDF : 13.7/18

Left In: 5.579 ± 6.662 χ^2/NDF : 1.5/1

Left: 2.076 ± 4.318 χ^2/NDF : 9.4/4

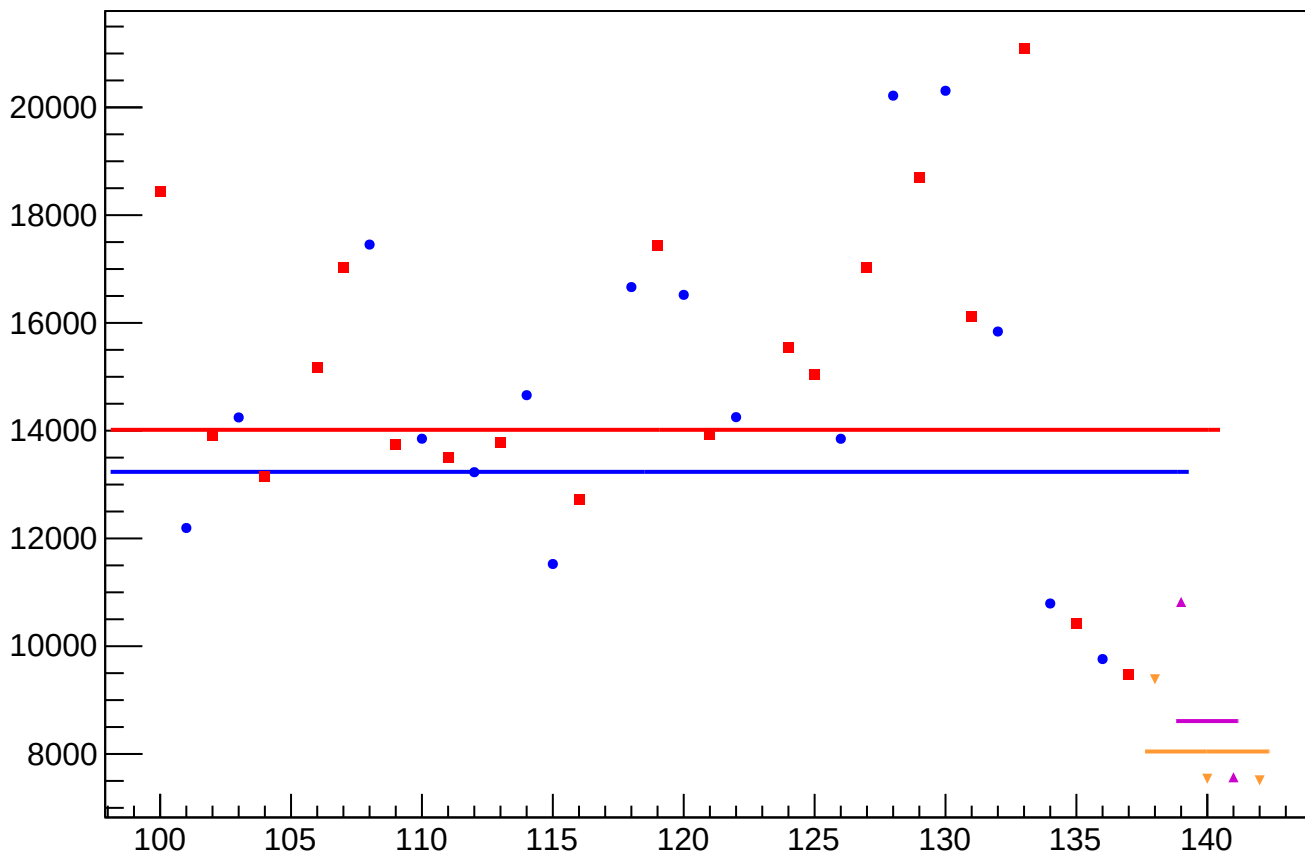
Right: 0.523 ± 3.639 χ^2/NDF : 43.9/34

In: -3.737 ± 4.034 χ^2/NDF : 27.3/17

Out: 5.620 ± 3.844 χ^2/NDF : 23.3/21

All: 1.168 ± 2.783 χ^2/NDF : 53.4/39

diff_bpm_4aX_4ecX_avg_rms vs Slug, Sign Corrected



Right In: 13235.828 $\pm$ 3.585 χ^2 /NDF: 673887.0/15

Left Out: 8046.108 $\pm$ 4.010 χ^2 /NDF:43013.7/2

Right Out: 14016.035 $\pm$ 3.696 χ^2 /NDF: 498592.9/18

Left In: 8610.782 $\pm$ 4.711 χ^2 /NDF:103915.4/1

Left: 8283.364 $\pm$ 3.054 χ^2 /NDF: 155260.3/4

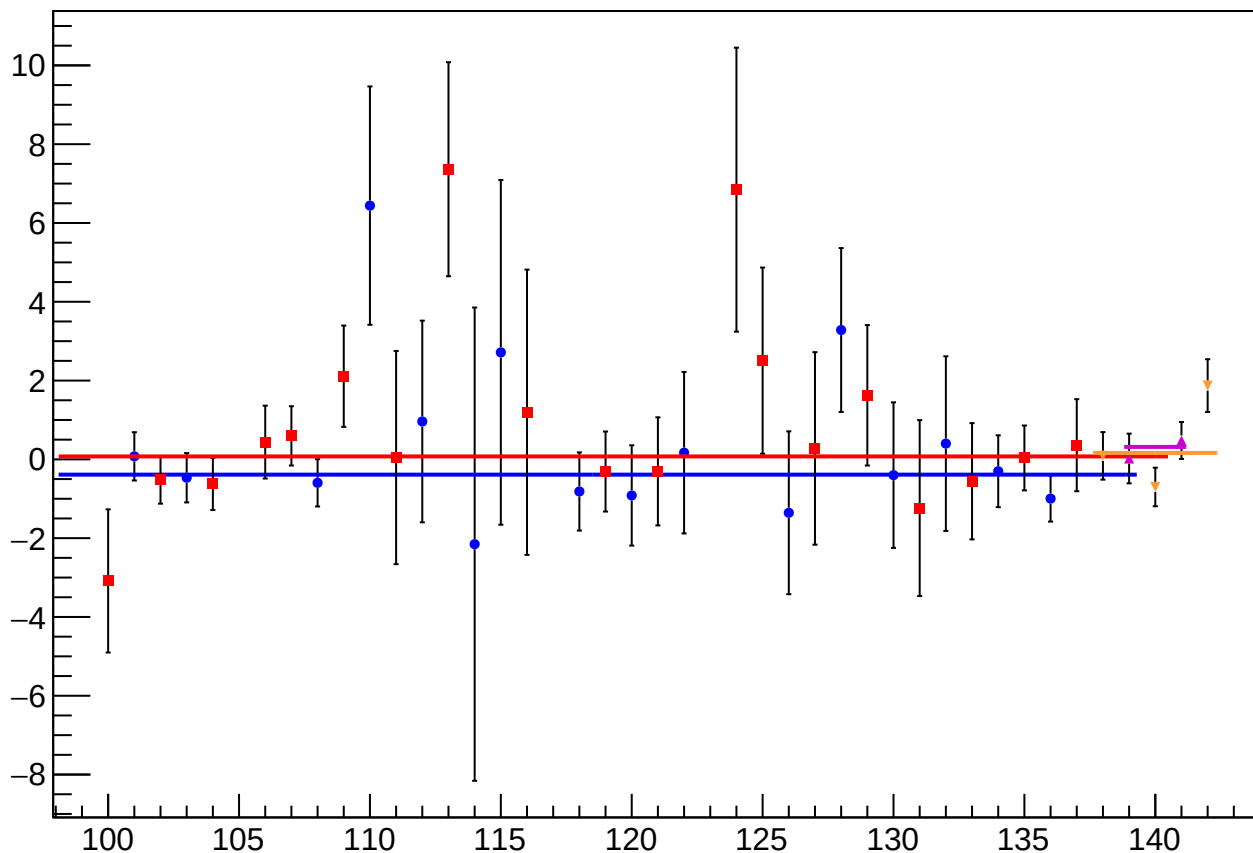
Right: 13613.950 $\pm$ 2.573 χ^2 /NDF: 1195440.4/34

In: 11539.921 $\pm$ 2.853 χ^2 /NDF:1388266.1/17

Out: 11273.727 $\pm$ 2.718 χ^2 /NDF:1739838.4/21

All: 11400.389 $\pm$ 1.968 χ^2 /NDF: 3132669.0/3

diff_bpm_4aX_4ecX_dd_mean vs Slug, Sign Corrected



Right In: -0.388 ± 0.256 χ^2/NDF : 11.7/15

Left Out: 0.163 ± 0.331 χ^2/NDF : 9.6/2

Right Out: 0.075 ± 0.265 χ^2/NDF : 21.7/18

Left In: 0.316 ± 0.376 χ^2/NDF : 0.3/1

Left: 0.230 ± 0.248 χ^2/NDF : 10.1/4

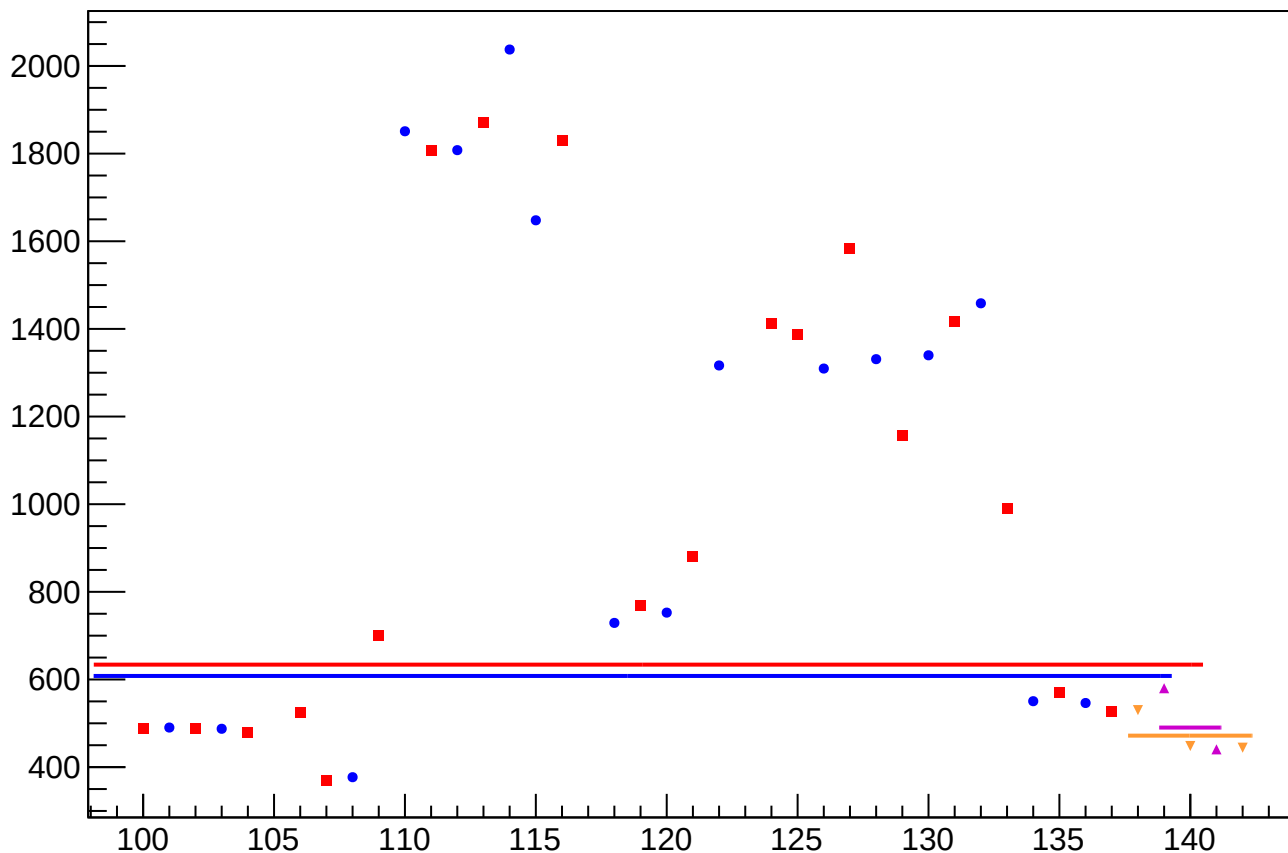
Right: -0.164 ± 0.184 χ^2/NDF : 34.9/34

In: -0.165 ± 0.212 χ^2/NDF : 14.4/17

Out: 0.109 ± 0.207 χ^2/NDF : 31.4/21

All: -0.025 ± 0.148 χ^2/NDF : 46.6/39

diff_bpm_4aX_4ecX_dd_rms vs Slug, Sign Corrected



Right In: 608.063+/-0.181 χ^2/NDF : 2852722.1/15

Left Out: 471.853+/-0.234 χ^2/NDF : 26678.1/2

Right Out: 633.883+/-0.187 χ^2/NDF : 2788449.1/18

Left In: 490.284+/-0.266 χ^2/NDF : 62964.1/1

Left: 479.880+/-0.176 χ^2/NDF : 92349.4/4

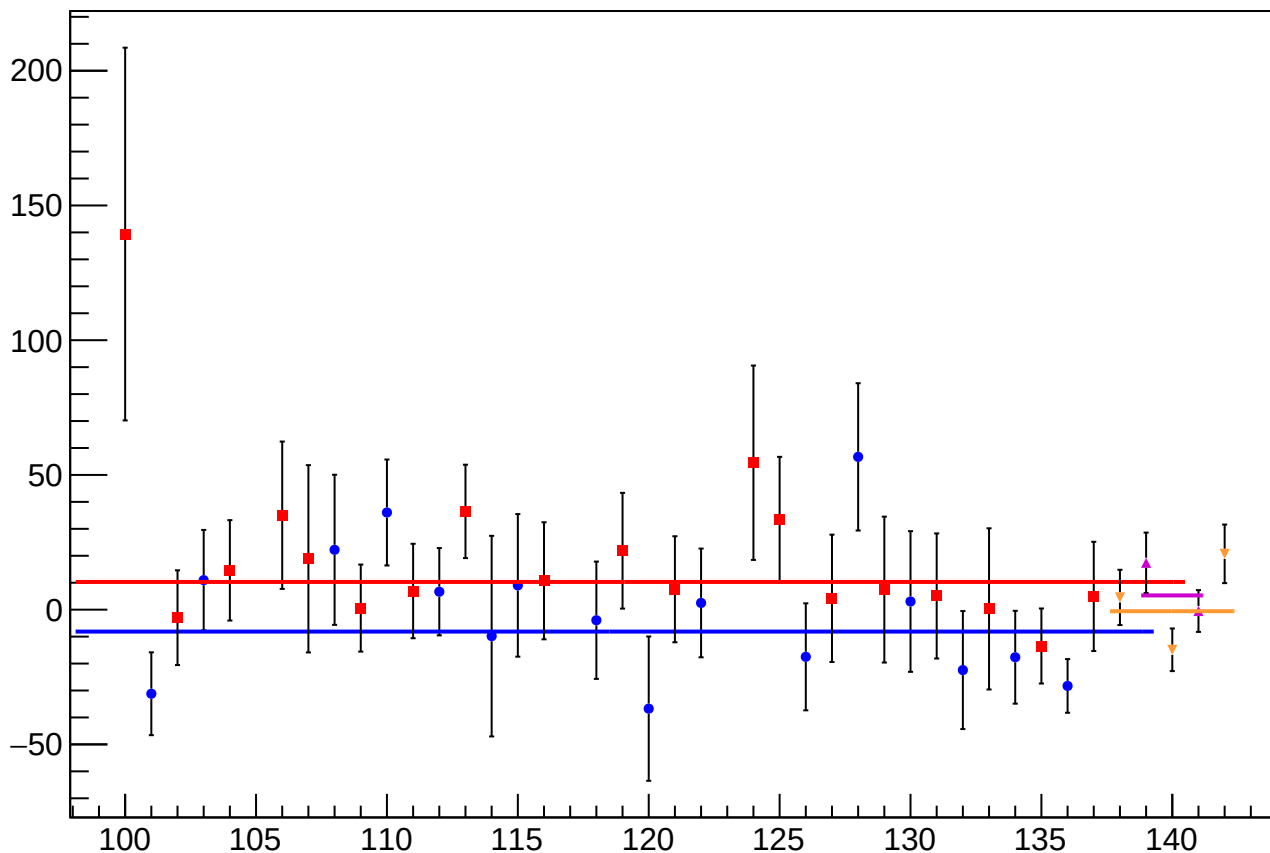
Right: 620.535+/-0.130 χ^2/NDF : 5651022.3/34

In: 570.867+/-0.150 χ^2/NDF : 3049690.2/17

Out: 570.641+/-0.146 χ^2/NDF : 3108020.6/21

All: 570.752+/-0.104 χ^2/NDF : 6157712.0/39

diff_bpm_4eX_4ecX_avg_mean vs Slug, Sign Corrected



Right In: -8.132 $\pm$ 4.779 χ^2/NDF : 23.1/15

Left Out: -0.572 $\pm$ 5.427 χ^2/NDF : 7.4/2

Right Out: 10.288 $\pm$ 4.873 χ^2/NDF : 13.7/18

Left In: 5.284 $\pm$ 6.377 χ^2/NDF : 1.7/1

Left: 1.888 $\pm$ 4.133 χ^2/NDF : 9.6/4

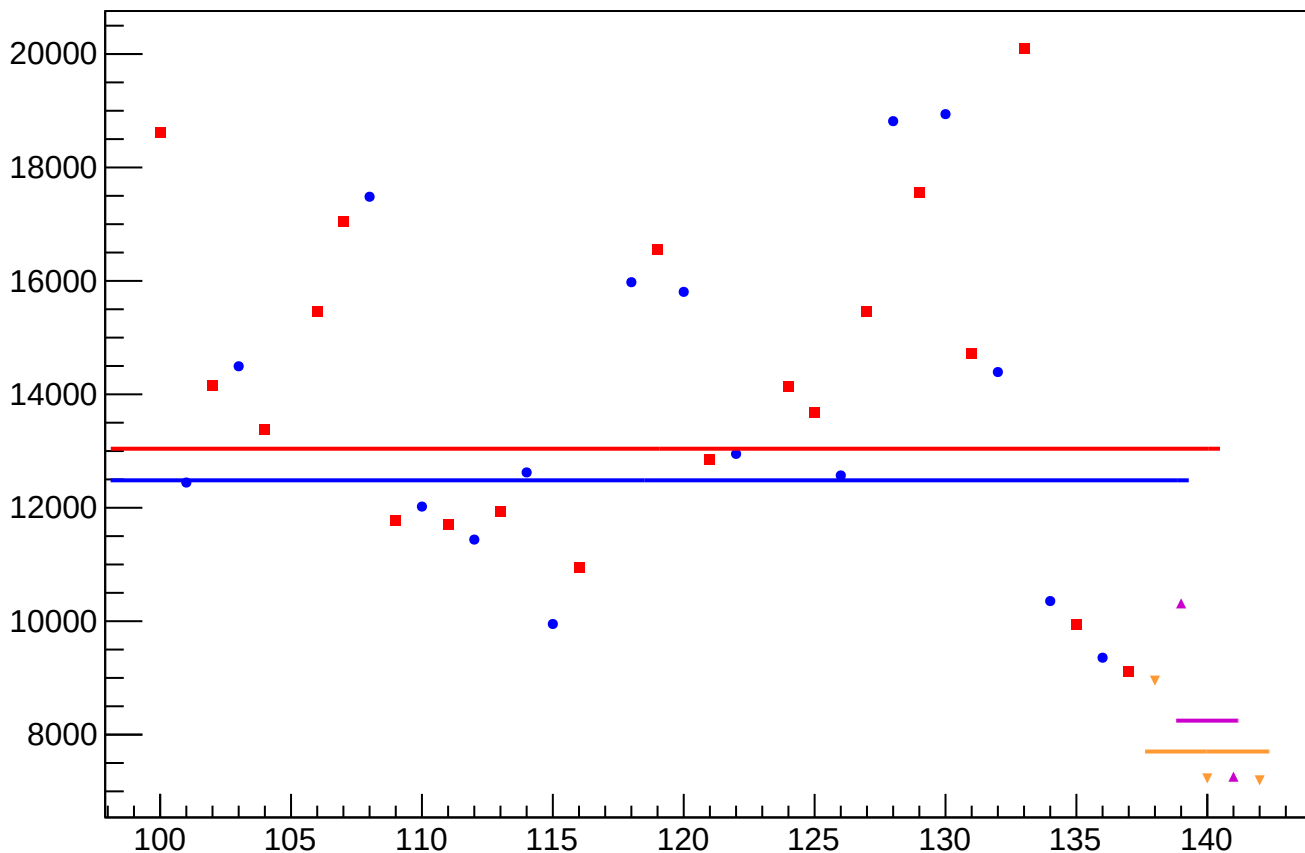
Right: 0.898 $\pm$ 3.412 χ^2/NDF : 44.1/34

In: -3.307 $\pm$ 3.824 χ^2/NDF : 27.7/17

Out: 5.440 $\pm$ 3.626 χ^2/NDF : 23.3/21

All: 1.299 $\pm$ 2.631 χ^2/NDF : 53.7/39

diff_bpm_4eX_4ecX_avg_rms vs Slug, Sign Corrected



Right In: 12483.955 $\pm$ 3.379 χ^2/NDF : 671560.0/15

Left Out: 7702.456 $\pm$ 3.838 χ^2/NDF : 41228.9/2

Right Out: 13041.241 $\pm$ 3.446 χ^2/NDF : 544486.8/18

Left In: 8246.765 $\pm$ 4.509 χ^2/NDF : 100457.6/1

Left: 7931.094 $\pm$ 2.923 χ^2/NDF : 150136.8/4

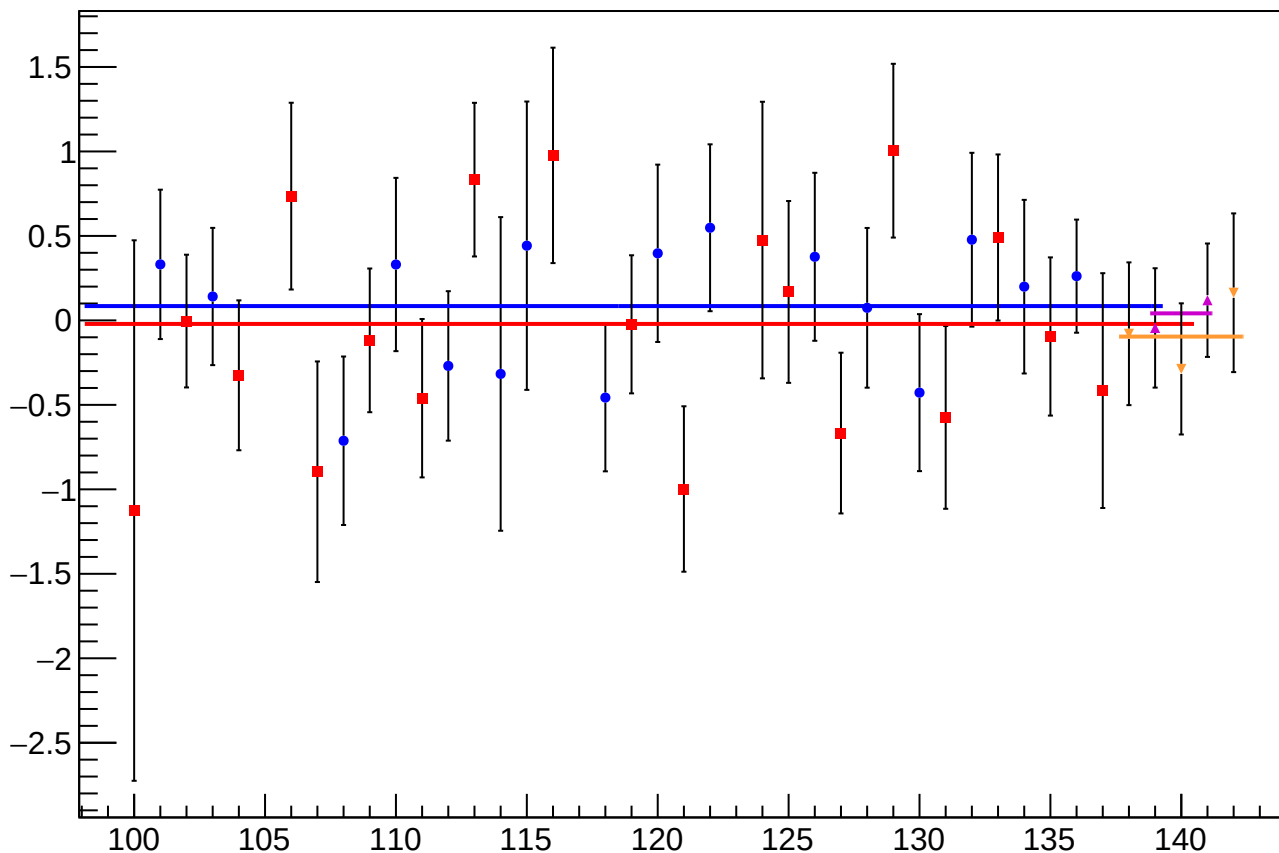
Right: 12757.154 $\pm$ 2.413 χ^2/NDF : 1229378.8/34

In: 10960.085 $\pm$ 2.704 χ^2/NDF : 1337430.6/17

Out: 10658.070 $\pm$ 2.564 χ^2/NDF : 1657147.6/21

All: 10801.045 $\pm$ 1.861 χ^2/NDF : 3001146.5/3

diff_bpm_4eX_4ecX_dd_mean vs Slug, Sign Corrected



Right In: 0.085 ± 0.120 χ^2/NDF : 9.4/15

Left Out: -0.096 ± 0.244 χ^2/NDF : 0.5/2

Right Out: -0.021 ± 0.117 χ^2/NDF : 24.3/18

Left In: 0.042 ± 0.243 χ^2/NDF : 0.1/1

Left: -0.027 ± 0.172 χ^2/NDF : 0.8/4

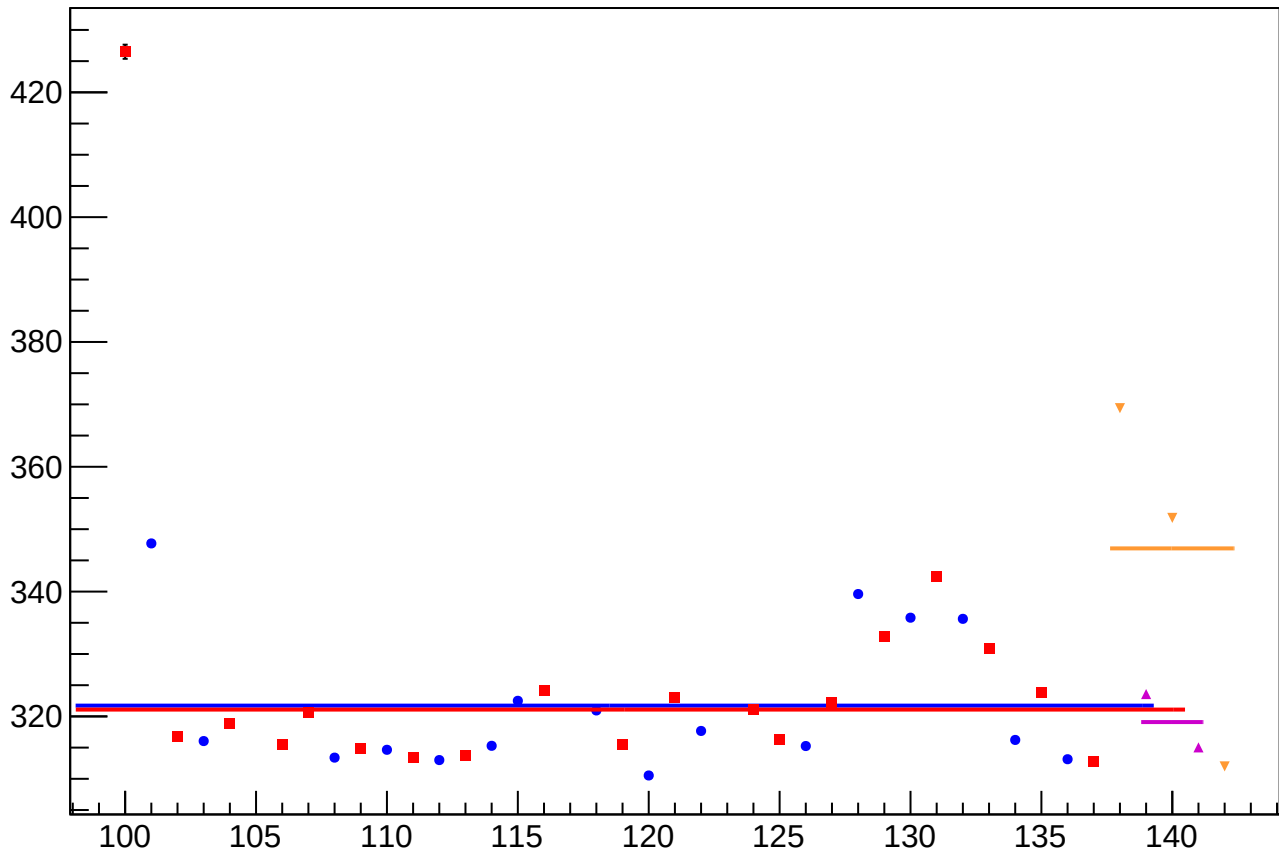
Right: 0.031 ± 0.084 χ^2/NDF : 34.1/34

In: 0.076 ± 0.108 χ^2/NDF : 9.5/17

Out: -0.035 ± 0.106 χ^2/NDF : 24.9/21

All: 0.020 ± 0.076 χ^2/NDF : 35.0/39

diff_bpm_4eX_4ecX_dd_rms vs Slug, Sign Corrected



Right In: 321.727 $\pm$ 0.085 χ^2 /NDF: 18214.6/15

Left Out: 346.922 $\pm$ 0.173 χ^2 /NDF:17035.2/2

Right Out: 321.093 $\pm$ 0.083 χ^2 /NDF: 16579.3/18

Left In: 319.092 $\pm$ 0.172 χ^2 /NDF:615.0/1

Left: 332.959 $\pm$ 0.122 χ^2 /NDF: 30684.3/4

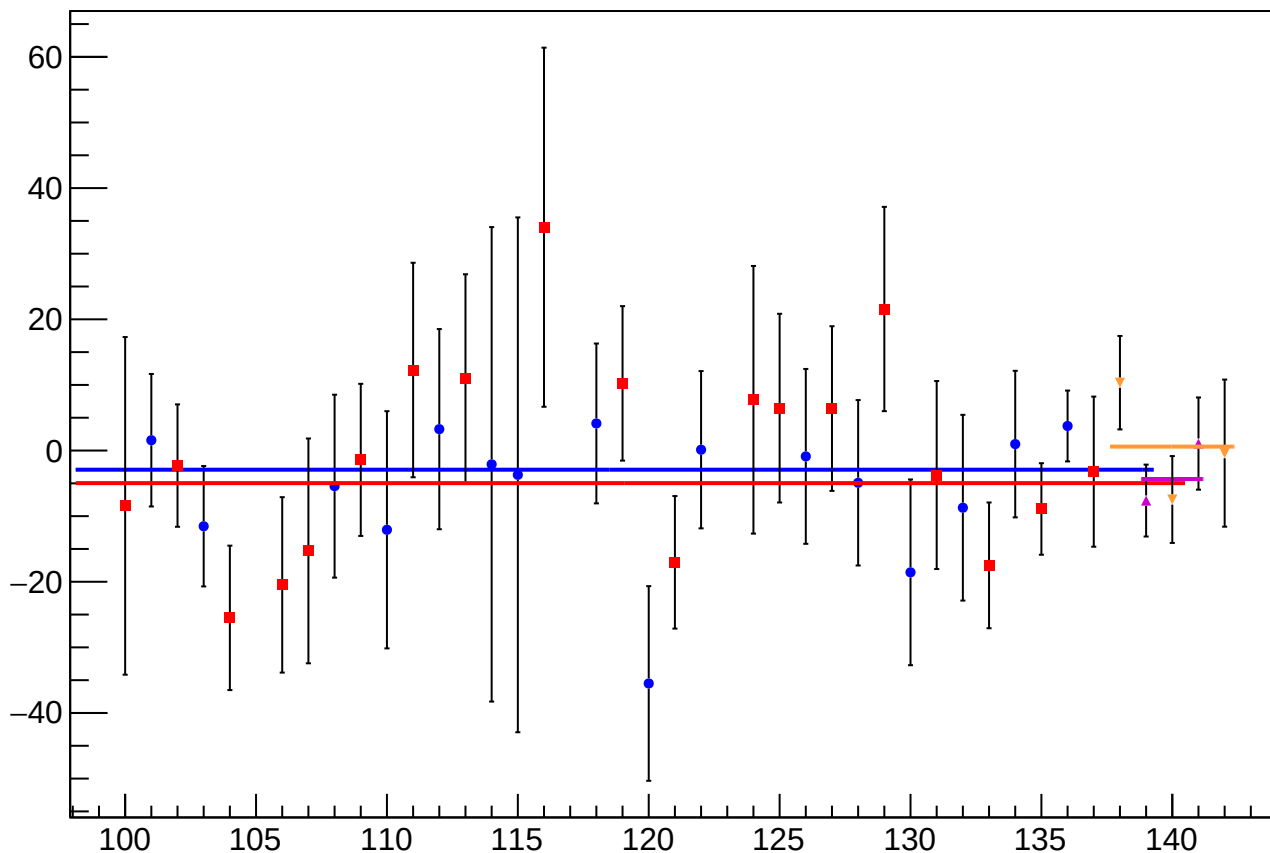
Right: 321.403 $\pm$ 0.059 χ^2 /NDF: 34822.5/34

In: 321.211 $\pm$ 0.076 χ^2 /NDF:19018.2/17

Out: 325.949 $\pm$ 0.075 χ^2 /NDF:51785.5/21

All: 323.621 $\pm$ 0.053 χ^2 /NDF: 72771.2/39

diff_bpm_4aY_4acY_avg_mean vs Slug, Sign Corrected



Right In: -2.922 ± 2.910 χ^2/NDF : 9.8/15

Left Out: 0.602 ± 4.450 χ^2/NDF : 3.4/2

Right Out: -4.965 ± 2.824 χ^2/NDF : 19.4/18

Left In: -4.339 ± 4.321 χ^2/NDF : 1.0/1

Left: -1.942 ± 3.100 χ^2/NDF : 4.9/4

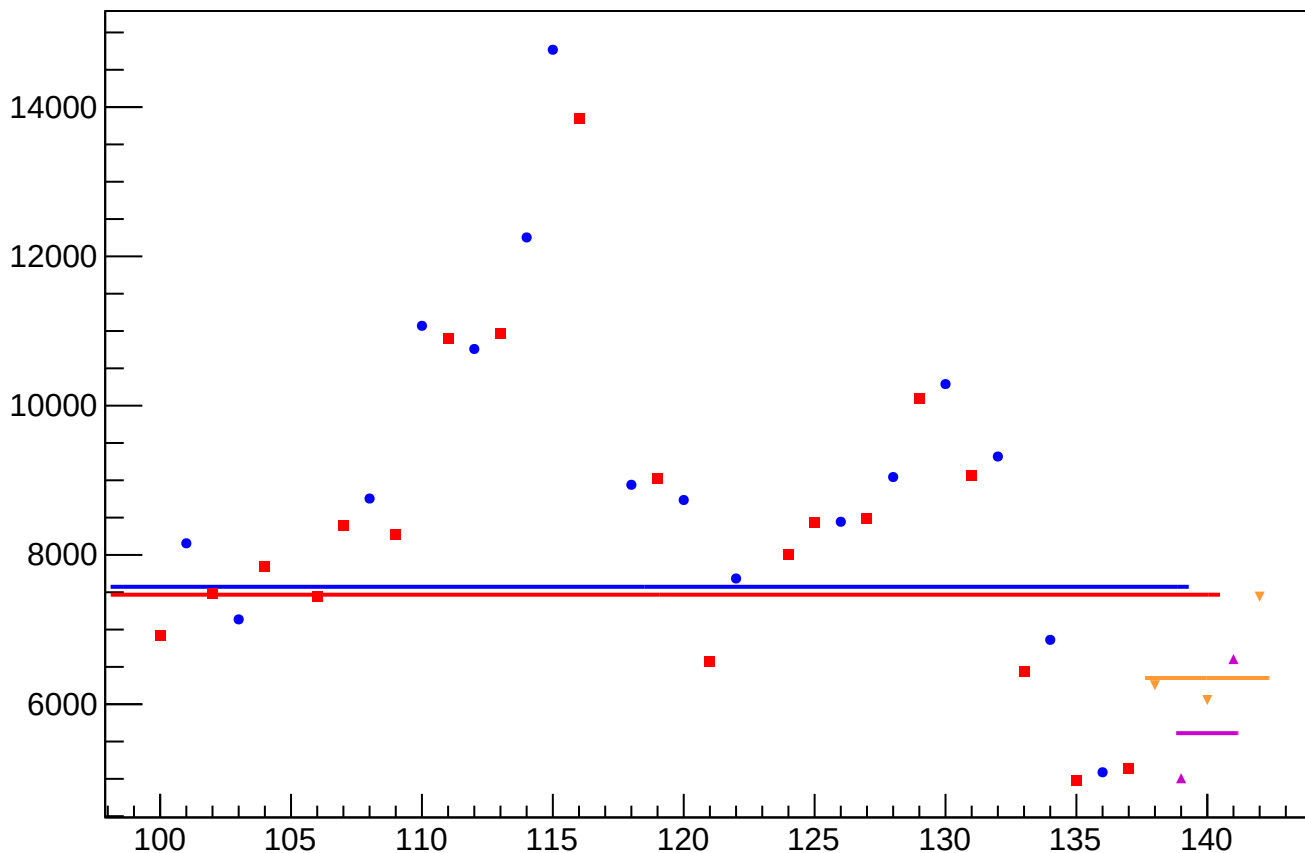
Right: -3.974 ± 2.027 χ^2/NDF : 29.5/34

In: -3.364 ± 2.414 χ^2/NDF : 10.9/17

Out: -3.367 ± 2.384 χ^2/NDF : 23.9/21

All: -3.366 ± 1.696 χ^2/NDF : 34.8/39

diff_bpm_4aY_4acY_avg_rms vs Slug, Sign Corrected



Right In: 7573.161+/-2.058 χ^2/NDF : 897588.4/15

Left Out: 6351.301+/-3.147 χ^2/NDF : 23254.1/2

Right Out: 7467.477+/-1.997 χ^2/NDF : 828353.3/18

Left In: 5612.114+/-3.055 χ^2/NDF : 64238.3/1

Left: 5970.819+/-2.192 χ^2/NDF : 115896.2/4

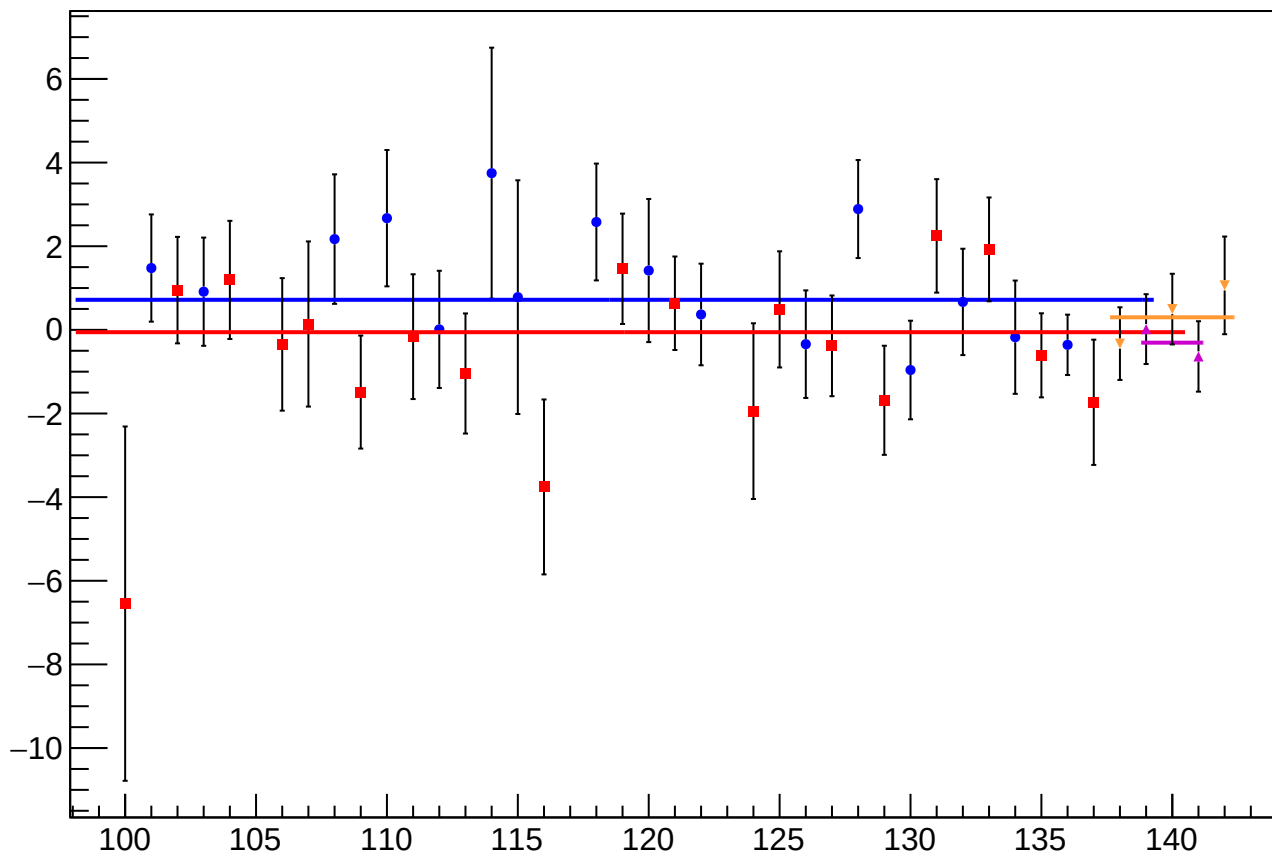
Right: 7518.728+/-1.433 χ^2/NDF : 1727300.0/34

In: 6961.151+/-1.707 χ^2/NDF : 1245224.9/17

Out: 7147.037+/-1.686 χ^2/NDF : 941306.8/21

All: 7055.234+/-1.199 χ^2/NDF : 2192534.8/39

diff_bpm_4aY_4acY_dd_mean vs Slug, Sign Corrected



Right In: 0.719 ± 0.326 χ^2/NDF : 14.8/15

Left Out: 0.300 ± 0.538 χ^2/NDF : 1.0/2

Right Out: -0.056 ± 0.323 χ^2/NDF : 19.8/18

Left In: -0.306 ± 0.593 χ^2/NDF : 0.3/1

Left: 0.027 ± 0.398 χ^2/NDF : 1.9/4

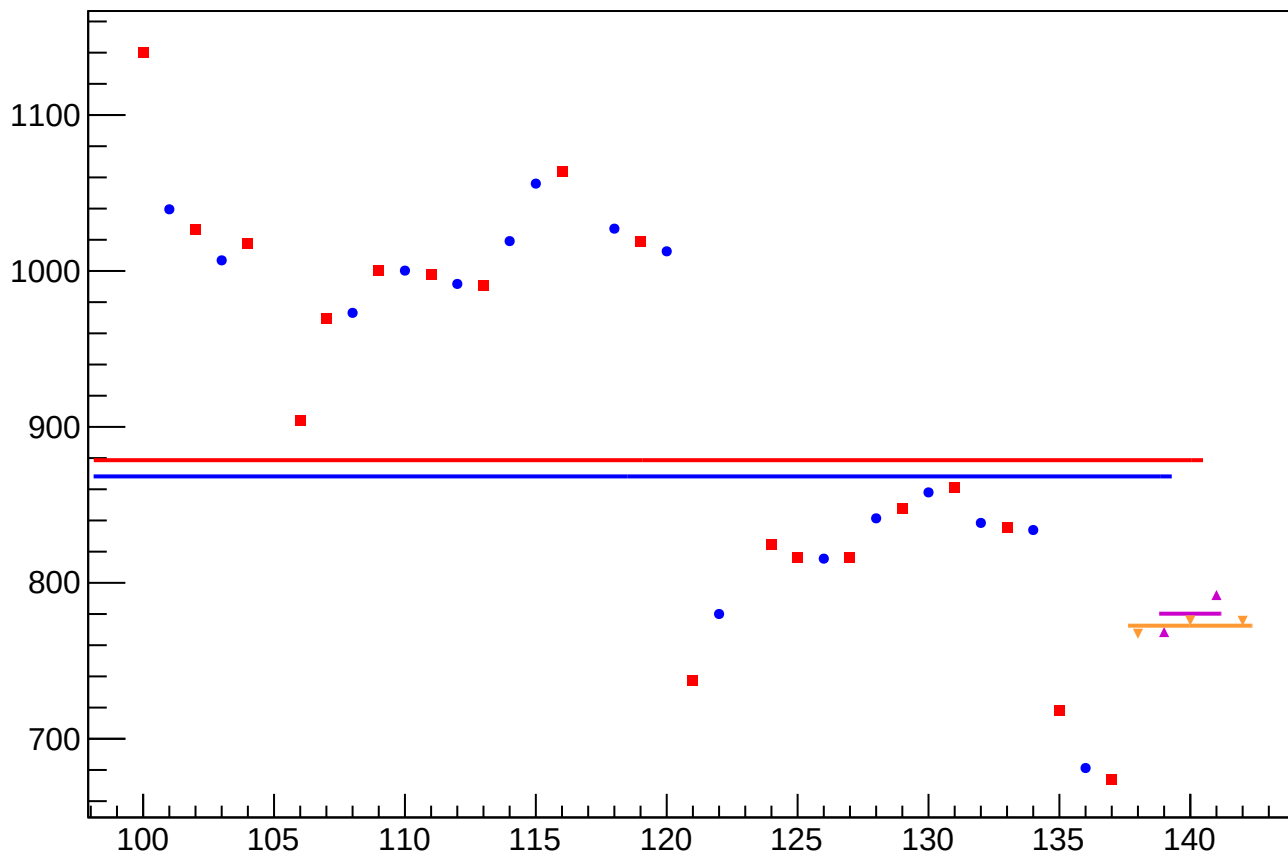
Right: 0.329 ± 0.230 χ^2/NDF : 37.4/34

In: 0.481 ± 0.286 χ^2/NDF : 17.4/17

Out: 0.039 ± 0.277 χ^2/NDF : 21.1/21

All: 0.253 ± 0.199 χ^2/NDF : 39.8/39

diff_bpm_4aY_4acY_dd_rms vs Slug, Sign Corrected



Right In: 868.253+/-0.230 χ^2/NDF : 302409.6/15

Left Out: 772.525+/-0.380 χ^2/NDF : 115.9/2

Right Out: 878.658+/-0.229 χ^2/NDF : 272530.7/18

Left In: 780.223+/-0.419 χ^2/NDF : 801.8/1

Left: 775.998+/-0.282 χ^2/NDF : 1102.8/4

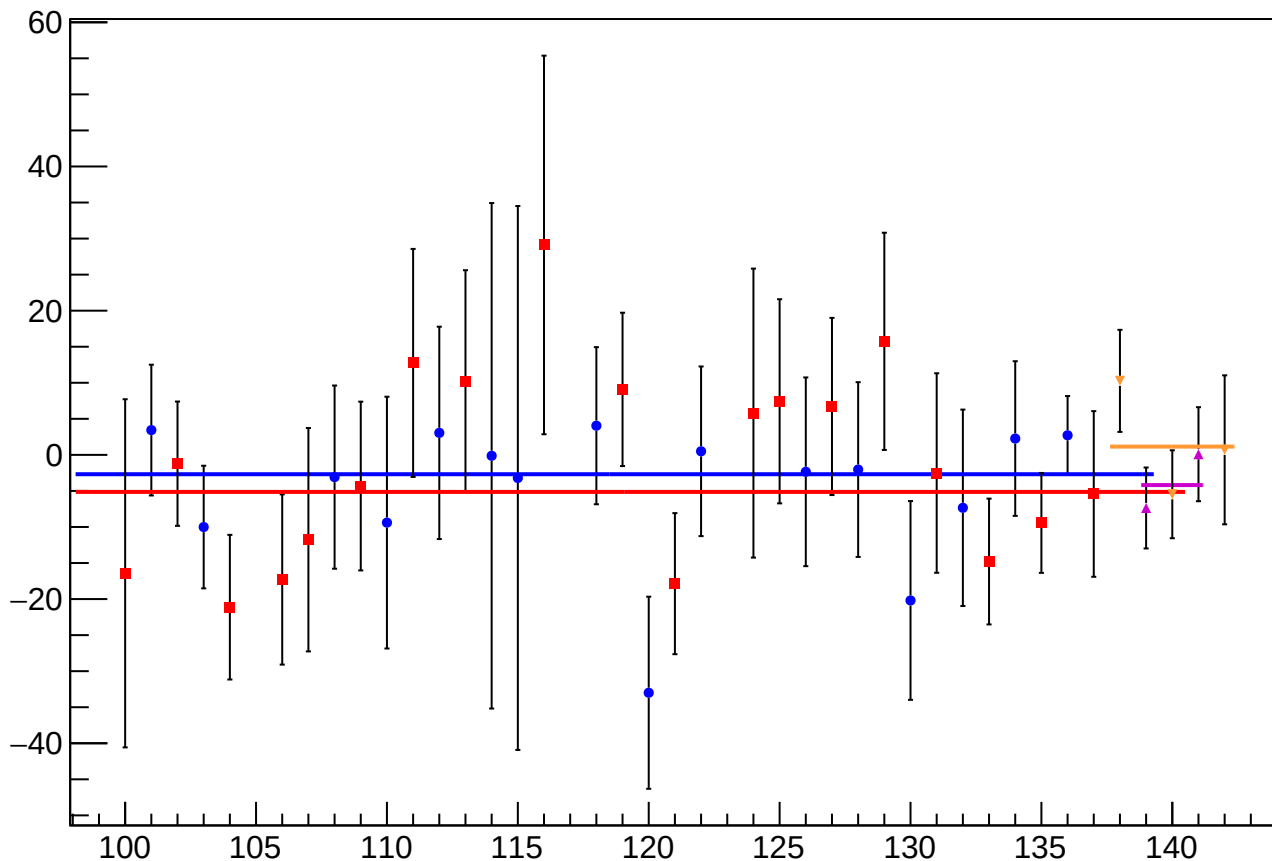
Right: 873.496+/-0.162 χ^2/NDF : 575967.6/34

In: 847.828+/-0.202 χ^2/NDF : 337063.4/17

Out: 850.464+/-0.196 χ^2/NDF : 329882.1/21

All: 849.186+/-0.141 χ^2/NDF : 667033.3/39

diff_bpm_4aY_4eY_avg_mean vs Slug, Sign Corrected



Right In: -2.683 ± 2.788 χ^2/NDF : 10.1/15

Left Out: 1.149 ± 4.217 χ^2/NDF : 2.8/2

Right Out: -5.136 ± 2.692 χ^2/NDF : 17.3/18

Left In: -4.190 ± 4.254 χ^2/NDF : 0.8/1

Left: -1.497 ± 2.995 χ^2/NDF : 4.4/4

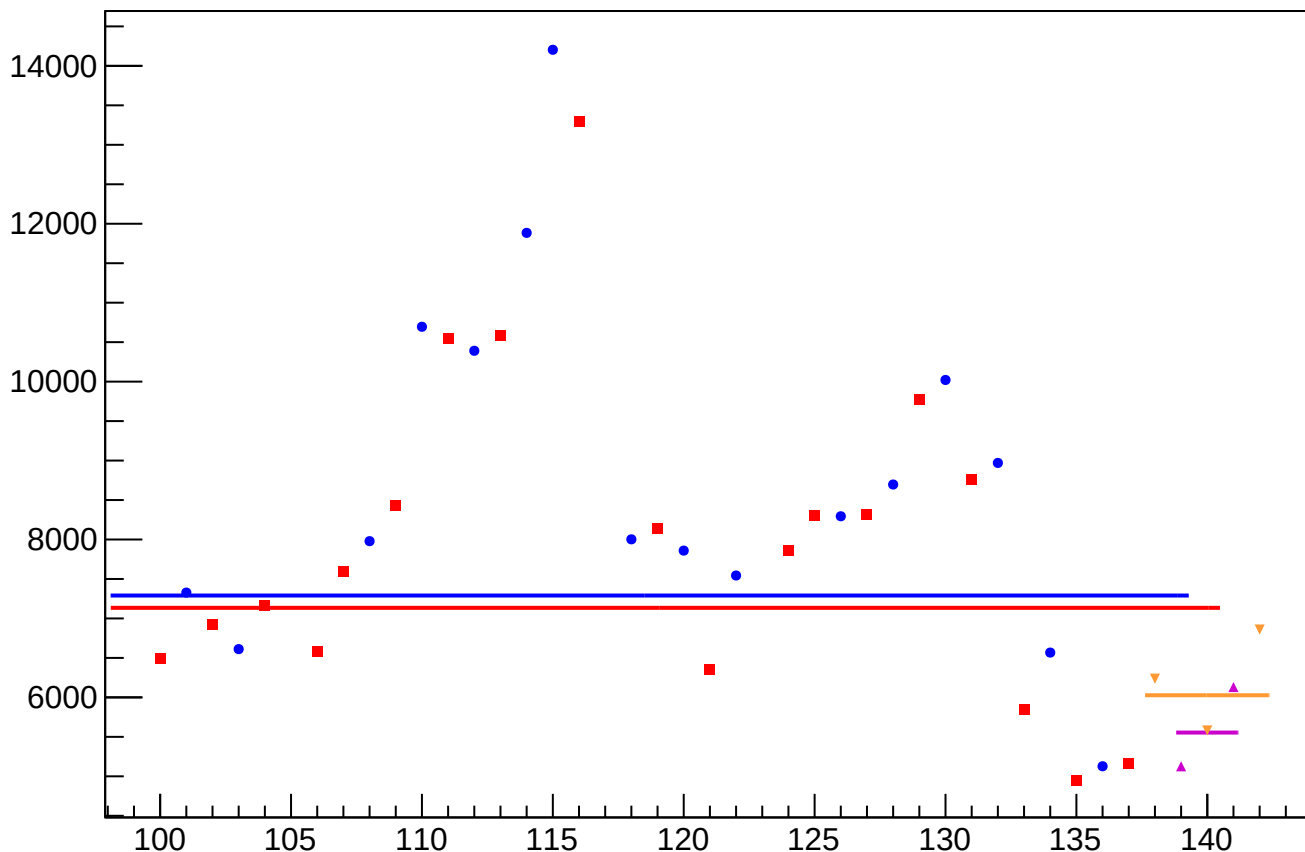
Right: -3.953 ± 1.937 χ^2/NDF : 27.7/34

In: -3.136 ± 2.332 χ^2/NDF : 10.9/17

Out: -3.317 ± 2.269 χ^2/NDF : 21.7/21

All: -3.229 ± 1.626 χ^2/NDF : 32.6/39

diff_bpm_4aY_4eY_avg_rms vs Slug, Sign Corrected



Right In: 7290.246+/-1.972 χ^2/NDF : 770518.2/15

Left Out: 6027.122+/-2.982 χ^2/NDF : 25432.8/2

Right Out: 7134.411+/-1.903 χ^2/NDF : 792788.1/18

Left In: 5554.404+/-3.008 χ^2/NDF : 27243.2/1

Left: 5792.821+/-2.118 χ^2/NDF : 65129.8/4

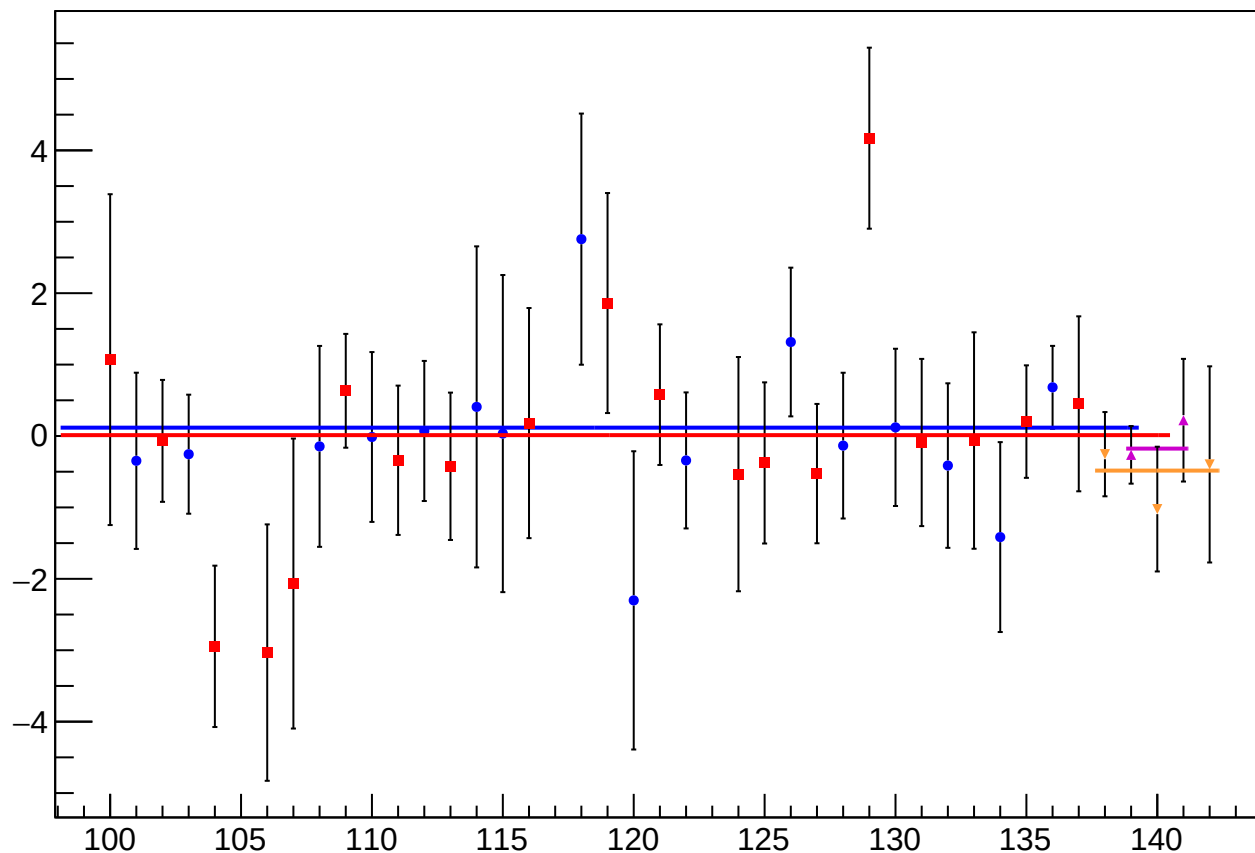
Right: 7209.592+/-1.369 χ^2/NDF : 1566539.8/34

In: 6768.695+/-1.649 χ^2/NDF : 1030674.6/17

Out: 6813.885+/-1.604 χ^2/NDF : 916176.6/21

All: 6791.908+/-1.150 χ^2/NDF : 1947237.0/39

diff_bpm_4aY_4eY_dd_mean vs Slug, Sign Corrected



Right In: 0.117 ± 0.273 χ^2/NDF : 8.1/15

Left Out: -0.484 ± 0.461 χ^2/NDF : 0.5/2

Right Out: 0.012 ± 0.263 χ^2/NDF : 25.2/18

Left In: -0.176 ± 0.365 χ^2/NDF : 0.3/1

Left: -0.295 ± 0.286 χ^2/NDF : 1.1/4

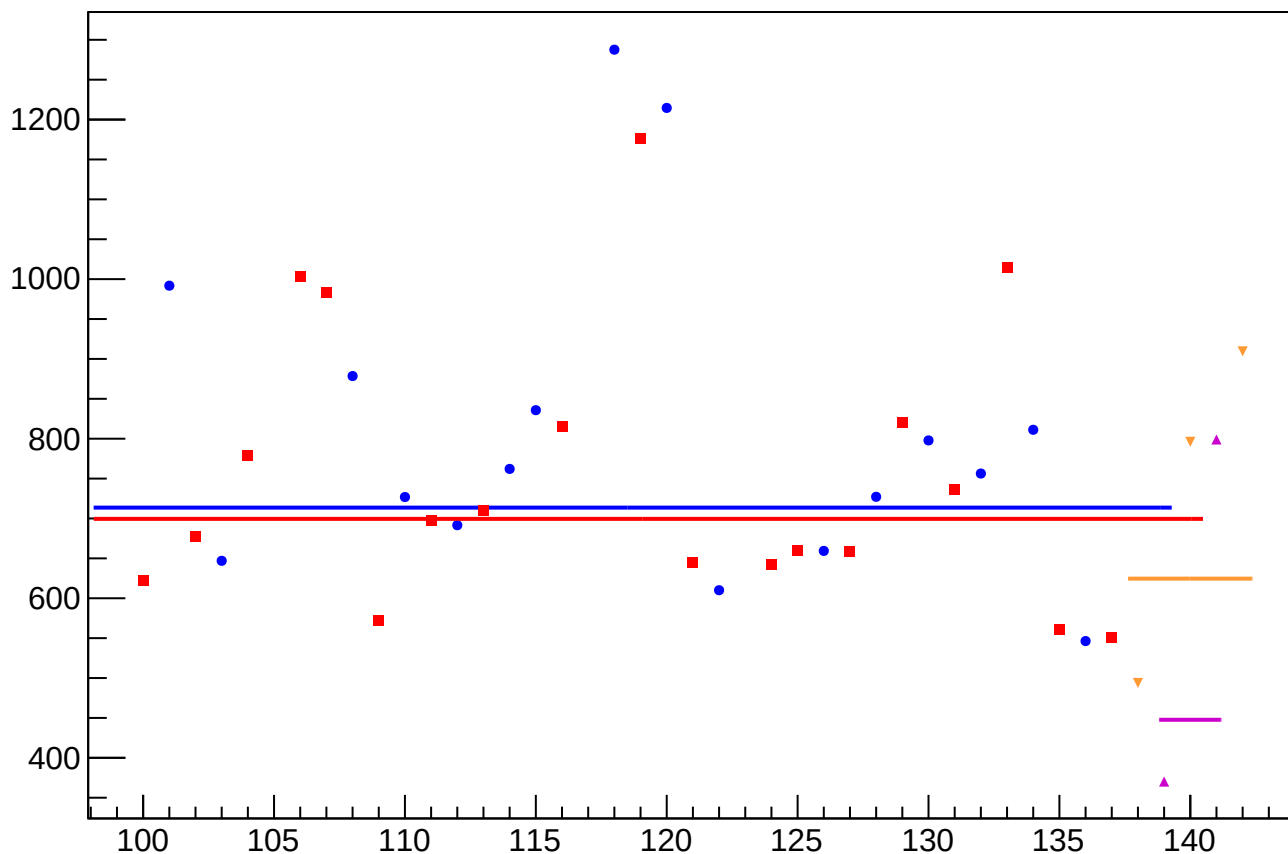
Right: 0.063 ± 0.190 χ^2/NDF : 33.4/34

In: 0.012 ± 0.219 χ^2/NDF : 8.8/17

Out: -0.110 ± 0.229 χ^2/NDF : 26.6/21

All: -0.047 ± 0.158 χ^2/NDF : 35.5/39

diff_bpm_4aY_4eY_dd_rms vs Slug, Sign Corrected



Right In: 713.627+/-0.193 χ^2/NDF : 699303.9/15

Left Out: 624.591+/-0.326 χ^2/NDF : 261431.2/2

Right Out: 699.502+/-0.186 χ^2/NDF : 575759.9/18

Left In: 447.682+/-0.258 χ^2/NDF : 408474.3/1

Left: 515.936+/-0.202 χ^2/NDF : 851140.3/4

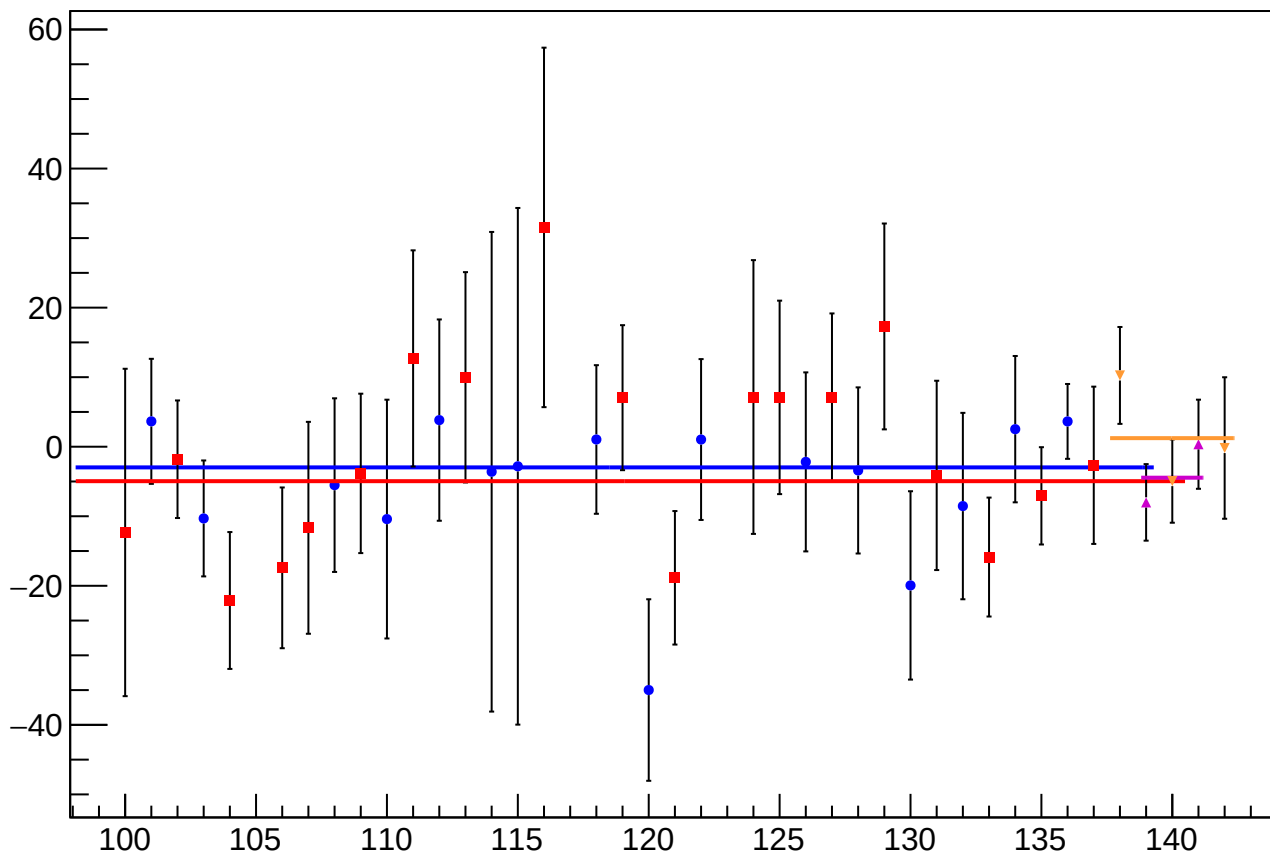
Right: 706.303+/-0.134 χ^2/NDF : 1277836.8/34

In: 618.161+/-0.155 χ^2/NDF : 1788282.2/17

Out: 681.060+/-0.162 χ^2/NDF : 877075.4/21

All: 648.231+/-0.112 χ^2/NDF : 2744441.2/39

diff_bpm_4aY_4ecY_avg_mean vs Slug, Sign Corrected



Right In: -2.974 ± 2.746 χ^2/NDF : 11.6/15

Left Out: 1.232 ± 4.147 χ^2/NDF : 2.8/2

Right Out: -4.955 ± 2.653 χ^2/NDF : 18.5/18

Left In: -4.456 ± 4.176 χ^2/NDF : 1.0/1

Left: -1.593 ± 2.943 χ^2/NDF : 4.7/4

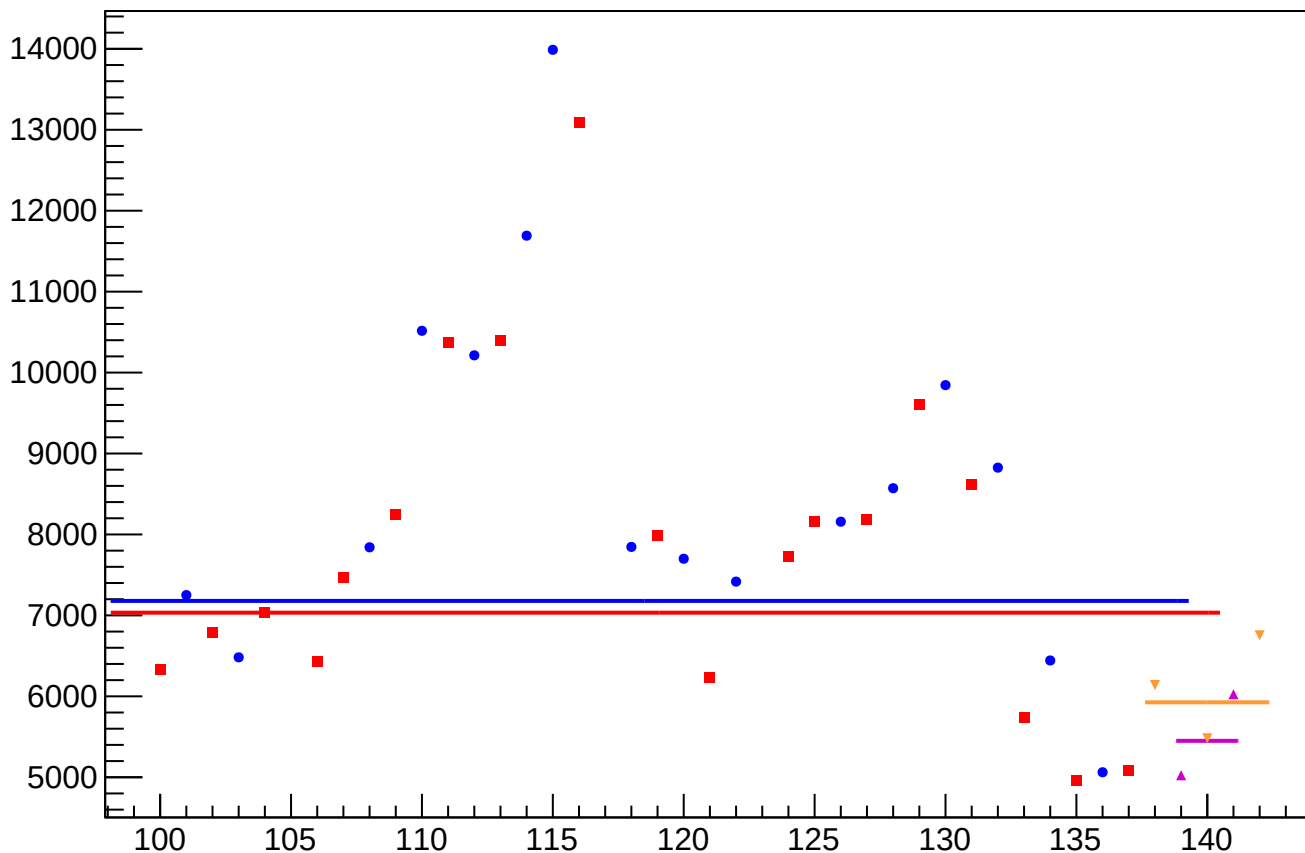
Right: -3.999 ± 1.908 χ^2/NDF : 30.3/34

In: -3.421 ± 2.294 χ^2/NDF : 12.6/17

Out: -3.158 ± 2.235 χ^2/NDF : 22.8/21

All: -3.286 ± 1.601 χ^2/NDF : 35.5/39

diff_bpm_4aY_4ecY_avg_rms vs Slug, Sign Corrected



Right In: 7178.925 $\pm$ 1.942 χ^2 /NDF: 761936.2/15

Left Out: 5925.895 $\pm$ 2.933 χ^2 /NDF: 26151.4/2

Right Out: 7033.538 $\pm$ 1.876 χ^2 /NDF: 766389.2/18

Left In: 5449.987 $\pm$ 2.953 χ^2 /NDF: 28074.6/1

Left: 5689.557 $\pm$ 2.081 χ^2 /NDF: 67304.2/4

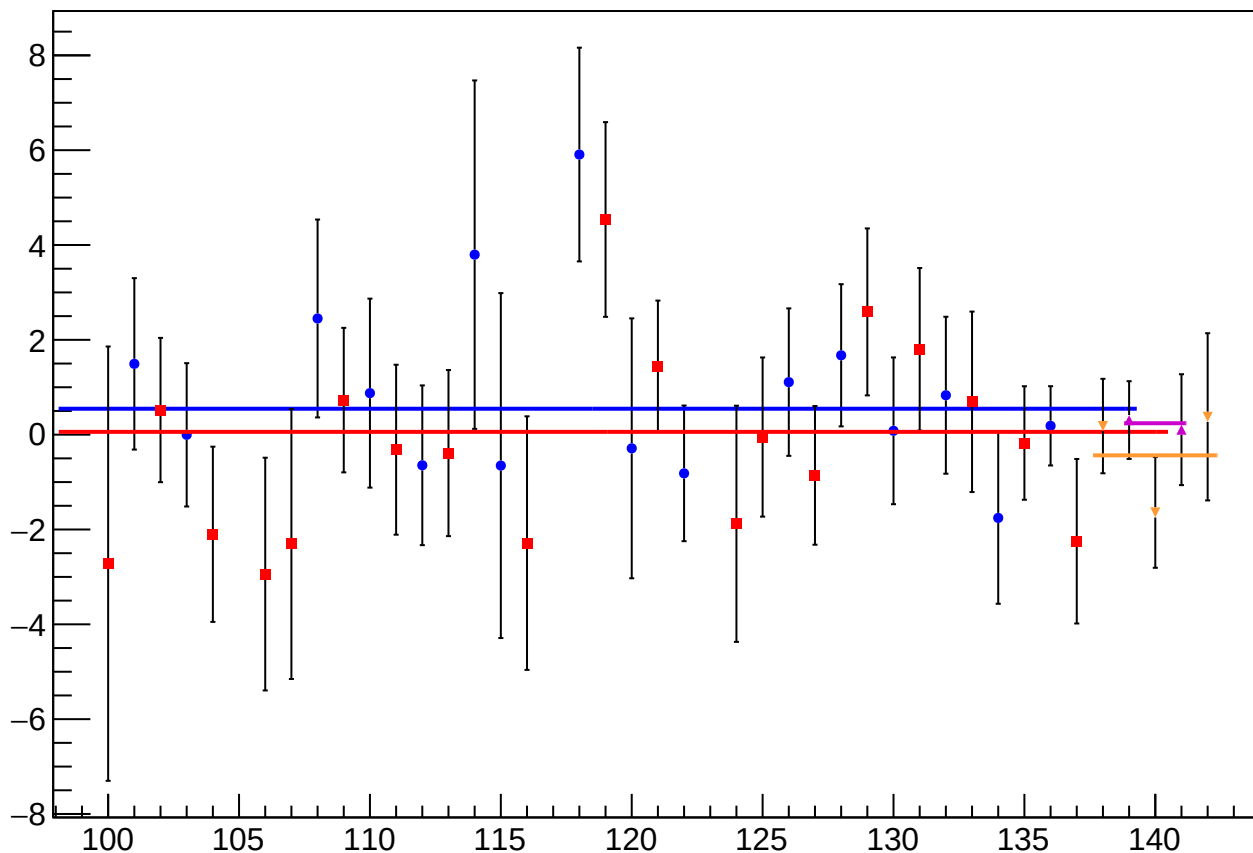
Right: 7103.732 $\pm$ 1.349 χ^2 /NDF: 1531224.9/34

In: 6656.930 $\pm$ 1.622 χ^2 /NDF: 1029375.0/17

Out: 6711.869 $\pm$ 1.580 χ^2 /NDF: 893768.7/21

All: 6685.120 $\pm$ 1.132 χ^2 /NDF: 1923732.0/39

diff_bpm_4aY_4ecY_dd_mean vs Slug, Sign Corrected



Right In: 0.547 ± 0.411 $\chi^2/\text{NDF}: 11.9/15$

Left Out: -0.436 ± 0.696 $\chi^2/\text{NDF}: 1.7/2$

Right Out: 0.059 ± 0.409 $\chi^2/\text{NDF}: 16.9/18$

Left In: 0.241 ± 0.671 $\chi^2/\text{NDF}: 0.0/1$

Left: -0.085 ± 0.483 $\chi^2/\text{NDF}: 2.2/4$

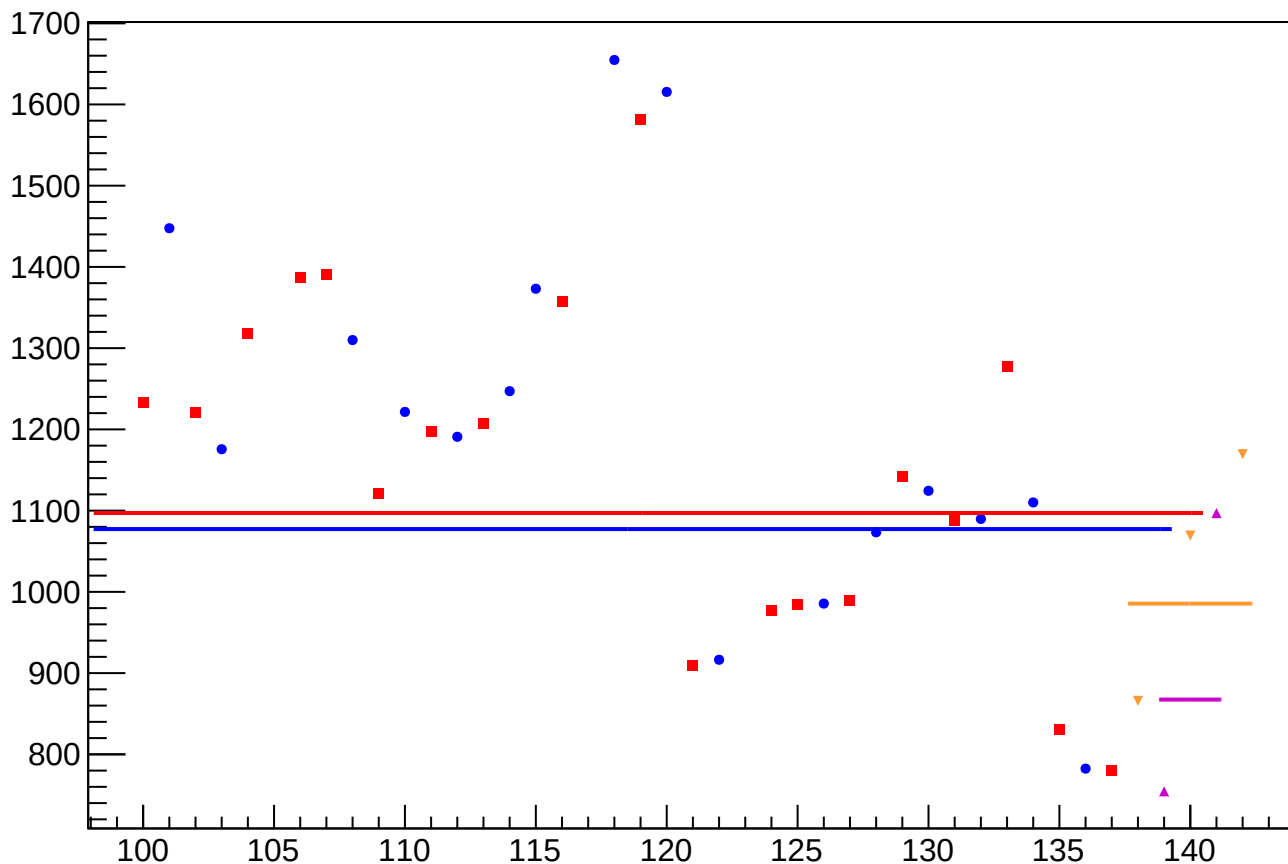
Right: 0.302 ± 0.290 $\chi^2/\text{NDF}: 29.5/34$

In: 0.464 ± 0.350 $\chi^2/\text{NDF}: 12.1/17$

Out: -0.068 ± 0.353 $\chi^2/\text{NDF}: 18.9/21$

All: 0.200 ± 0.249 $\chi^2/\text{NDF}: 32.1/39$

diff_bpm_4aY_4ecY_dd_rms vs Slug, Sign Corrected



Right In: 1077.306 $\pm$ 0.291 χ^2 /NDF: 646521.7/15

Left Out: 985.522 $\pm$ 0.492 χ^2 /NDF: 60955.0/2

Right Out: 1097.108 $\pm$ 0.289 χ^2 /NDF: 484370.7/18

Left In: 867.432 $\pm$ 0.475 χ^2 /NDF: 115075.0/1

Left: 924.331 $\pm$ 0.342 χ^2 /NDF: 205844.1/4

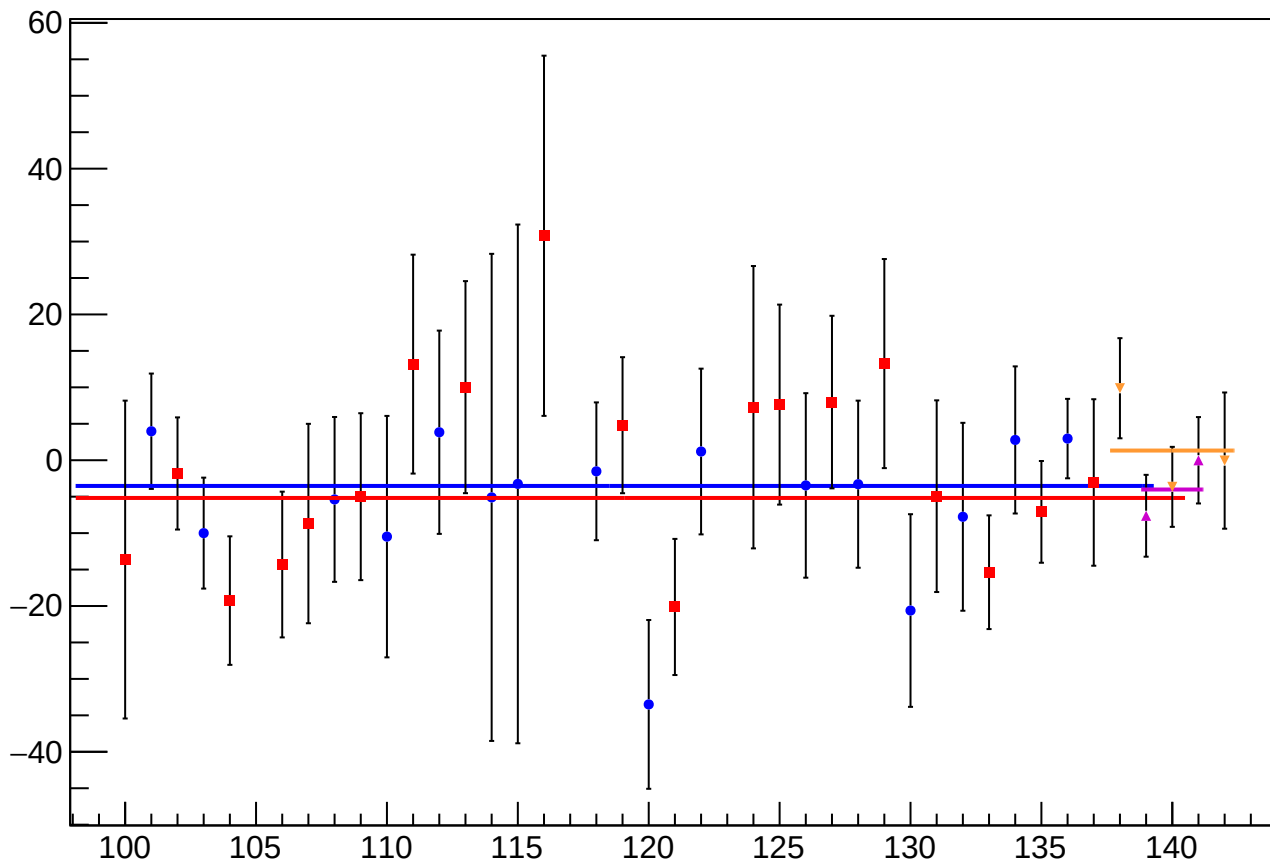
Right: 1087.256 $\pm$ 0.205 χ^2 /NDF: 1133226.7/34

In: 1020.118 $\pm$ 0.248 χ^2 /NDF: 903784.8/17

Out: 1068.495 $\pm$ 0.249 χ^2 /NDF: 583526.5/21

All: 1044.162 $\pm$ 0.176 χ^2 /NDF: 1506252.7/39

diff_bpm_4eY_4ecY_avg_mean vs Slug, Sign Corrected



Right In: -3.527 ± 2.608 χ^2/NDF : 12.6/15

Left Out: 1.328 ± 3.897 χ^2/NDF : 2.4/2

Right Out: -5.176 ± 2.508 χ^2/NDF : 18.2/18

Left In: -4.018 ± 4.076 χ^2/NDF : 0.9/1

Left: -1.225 ± 2.817 χ^2/NDF : 4.2/4

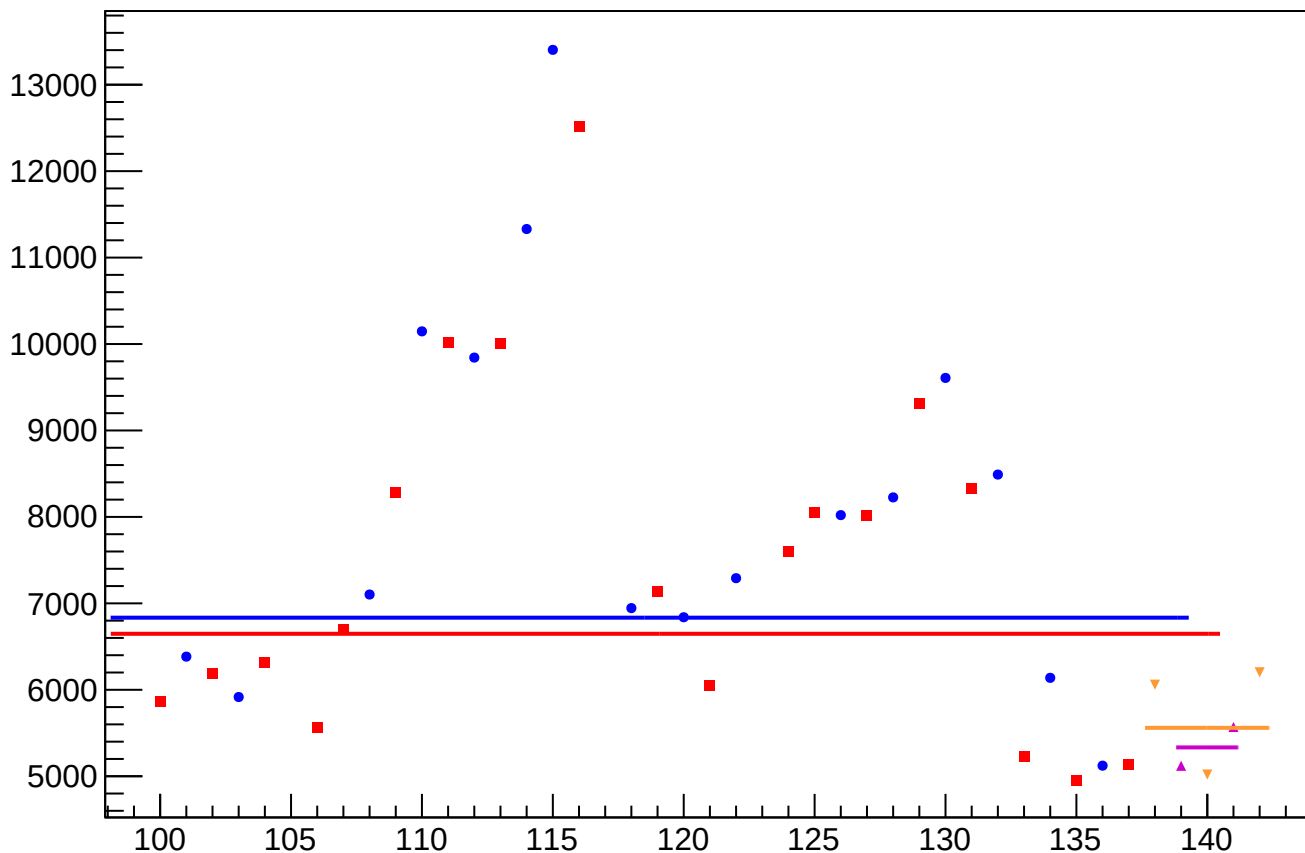
Right: -4.384 ± 1.808 χ^2/NDF : 31.0/34

In: -3.670 ± 2.197 χ^2/NDF : 13.5/17

Out: -3.271 ± 2.109 χ^2/NDF : 22.6/21

All: -3.462 ± 1.521 χ^2/NDF : 36.1/39

diff_bpm_4eY_4ecY_avg_rms vs Slug, Sign Corrected



Right In: 6834.346+/-1.844 χ^2/NDF : 692722.6/15

Left Out: 5559.915+/-2.755 χ^2/NDF : 39388.2/2

Right Out: 6647.996+/-1.773 χ^2/NDF : 785102.6/18

Left In: 5333.381+/-2.882 χ^2/NDF : 6049.9/1

Left: 5451.728+/-1.992 χ^2/NDF : 48666.1/4

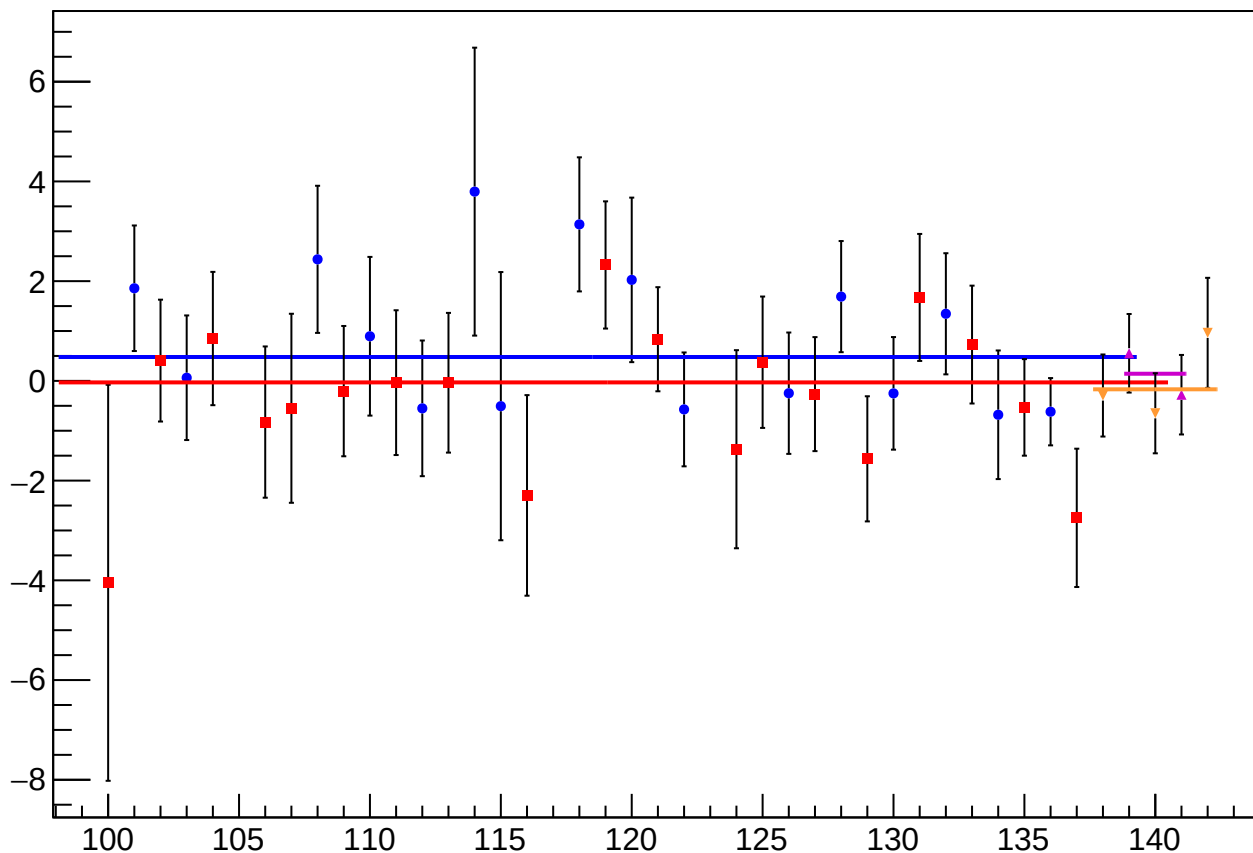
Right: 6737.523+/-1.278 χ^2/NDF : 1483130.1/34

In: 6398.254+/-1.553 χ^2/NDF : 891220.2/17

Out: 6329.299+/-1.491 χ^2/NDF : 934753.6/21

All: 6362.370+/-1.076 χ^2/NDF : 1826999.2/39

diff_bpm_4eY_4ecY_dd_mean vs Slug, Sign Corrected



Right In: 0.479 ± 0.311 $\chi^2/\text{NDF}: 16.7/15$

Left Out: -0.169 ± 0.510 $\chi^2/\text{NDF}: 1.4/2$

Right Out: -0.030 ± 0.309 $\chi^2/\text{NDF}: 15.7/18$

Left In: 0.143 ± 0.560 $\chi^2/\text{NDF}: 0.5/1$

Left: -0.028 ± 0.377 $\chi^2/\text{NDF}: 2.2/4$

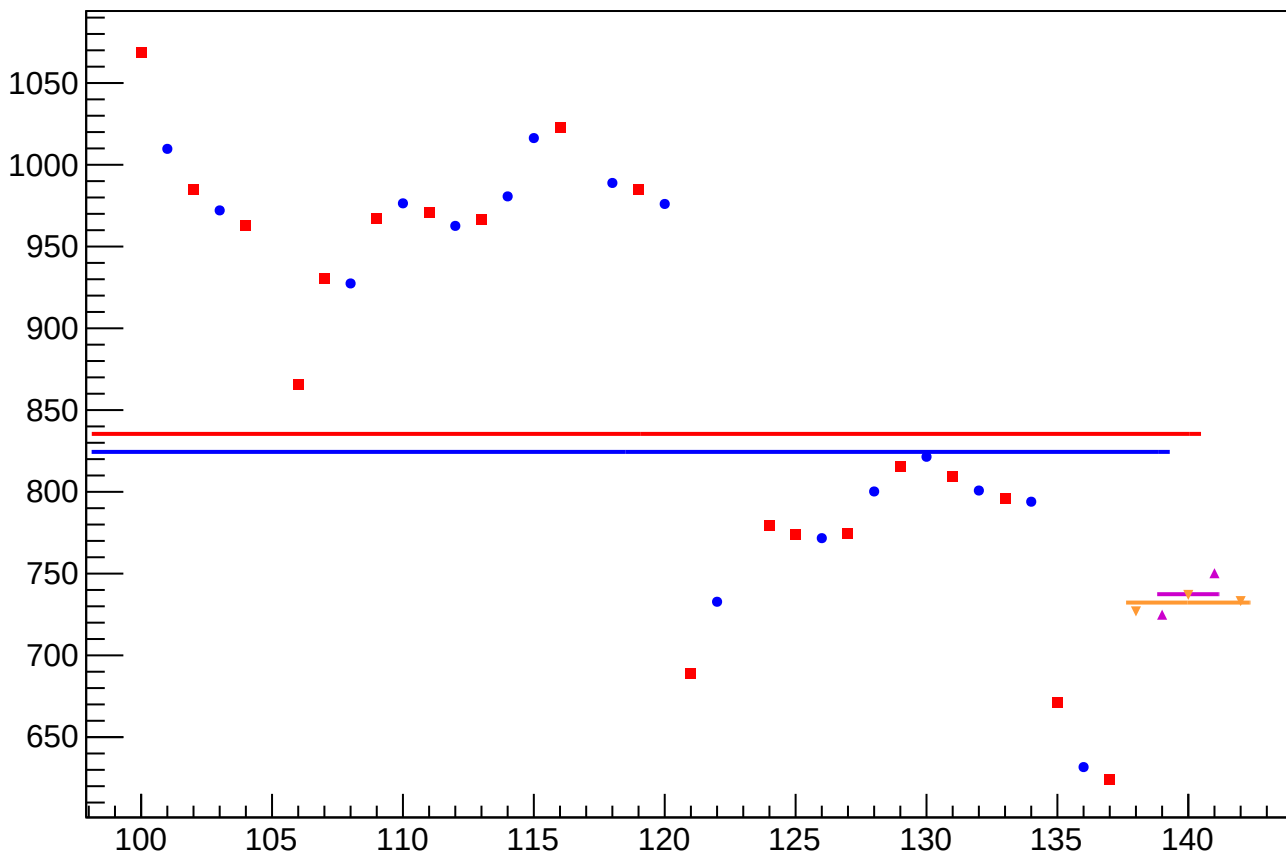
Right: 0.222 ± 0.219 $\chi^2/\text{NDF}: 33.8/34$

In: 0.400 ± 0.272 $\chi^2/\text{NDF}: 17.5/17$

Out: -0.068 ± 0.264 $\chi^2/\text{NDF}: 17.2/21$

All: 0.159 ± 0.189 $\chi^2/\text{NDF}: 36.3/39$

diff_bpm_4eY_4ecY_dd_rms vs Slug, Sign Corrected



Right In: 824.431+/-0.220 χ^2/NDF : 365461.7/15

Left Out: 732.285+/-0.360 χ^2/NDF :155.3/2

Right Out: 835.437+/-0.218 χ^2/NDF : 319302.1/18

Left In: 737.412+/-0.396 χ^2/NDF :1023.6/1

Left: 734.606+/-0.267 χ^2/NDF : 1270.5/4

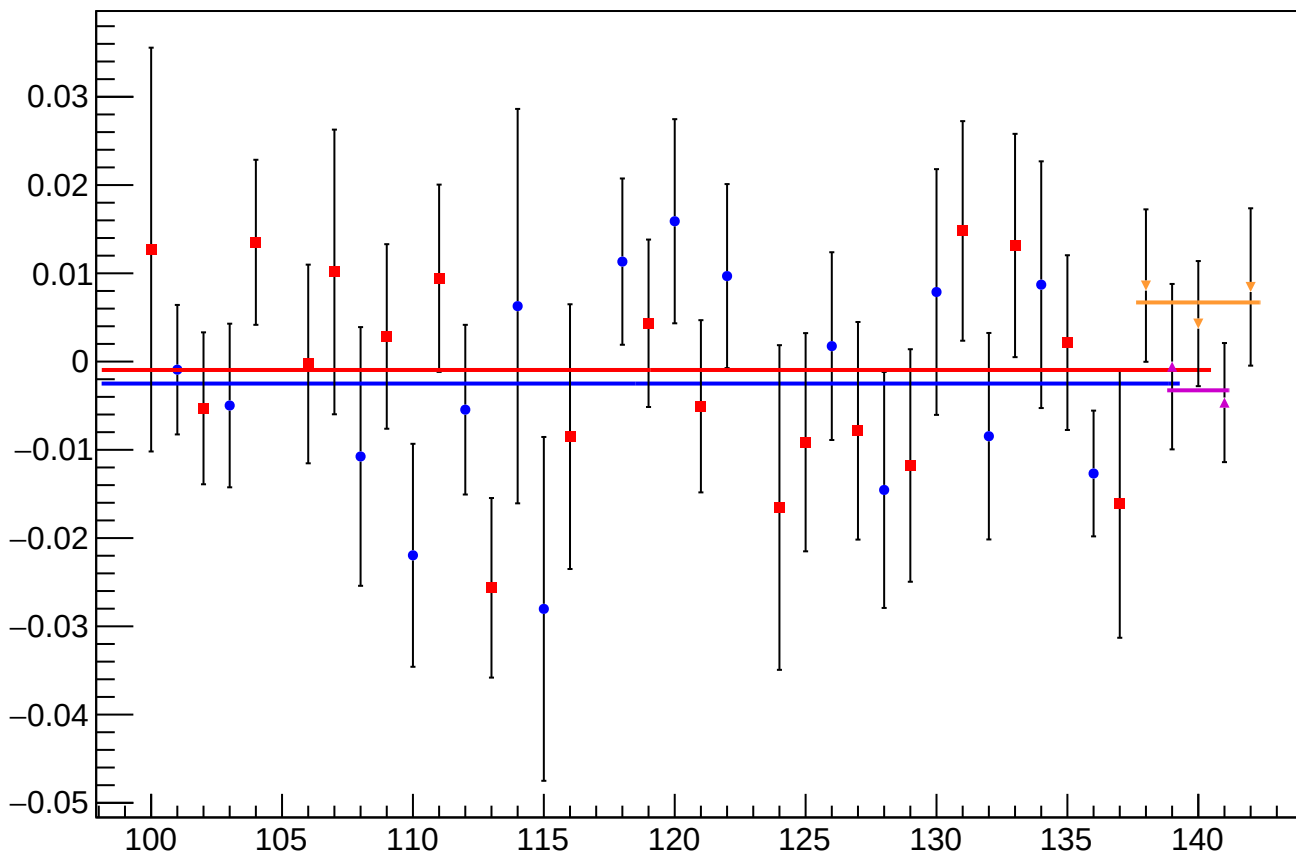
Right: 829.974+/-0.155 χ^2/NDF : 686027.0/34

In: 803.965+/-0.192 χ^2/NDF :403360.2/17

Out: 807.778+/-0.187 χ^2/NDF :379396.5/21

All: 805.927+/-0.134 χ^2/NDF : 782959.4/39

diff_dispE_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.003 χ^2/NDF : 15.3/15

Left Out: 0.007 ± 0.005 χ^2/NDF : 0.2/2

Right Out: -0.001 ± 0.003 χ^2/NDF : 17.3/18

Left In: -0.003 ± 0.005 χ^2/NDF : 0.1/1

Left: 0.003 ± 0.004 χ^2/NDF : 2.2/4

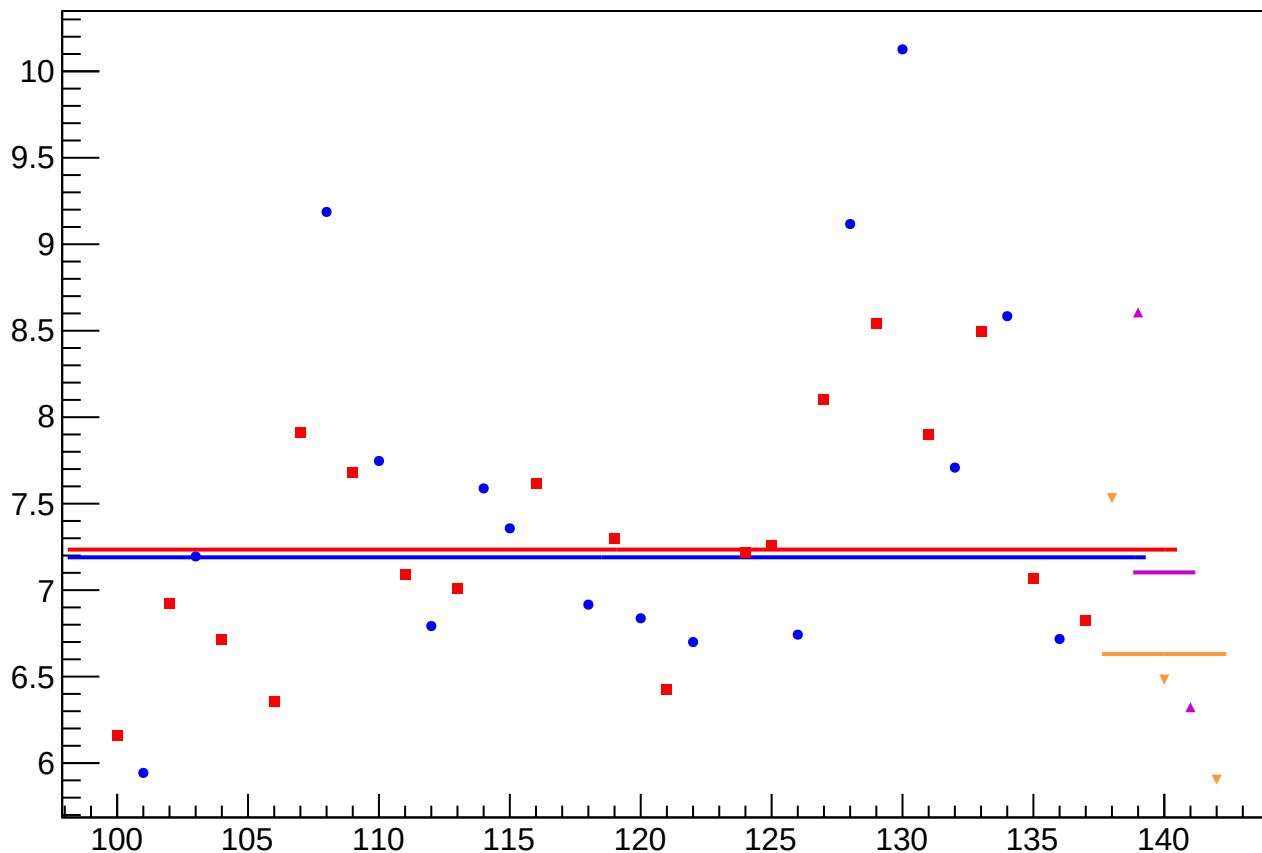
Right: -0.002 ± 0.002 χ^2/NDF : 32.8/34

In: -0.003 ± 0.002 χ^2/NDF : 15.4/17

Out: 0.001 ± 0.002 χ^2/NDF : 19.5/21

All: -0.001 ± 0.002 χ^2/NDF : 36.1/39

diff_dispE_bpm12X_rms vs Slug, Sign Corrected



Right In: 7.190 $\pm$ 0.002 χ^2 /NDF: 277639.9/15

Left Out: 6.631 $\pm$ 0.003 χ^2 /NDF: 35943.2/2

Right Out: 7.234 $\pm$ 0.002 χ^2 /NDF: 106266.0/18

Left In: 7.102 $\pm$ 0.004 χ^2 /NDF: 78168.4/1

Left: 6.829 $\pm$ 0.003 χ^2 /NDF: 122714.3/4

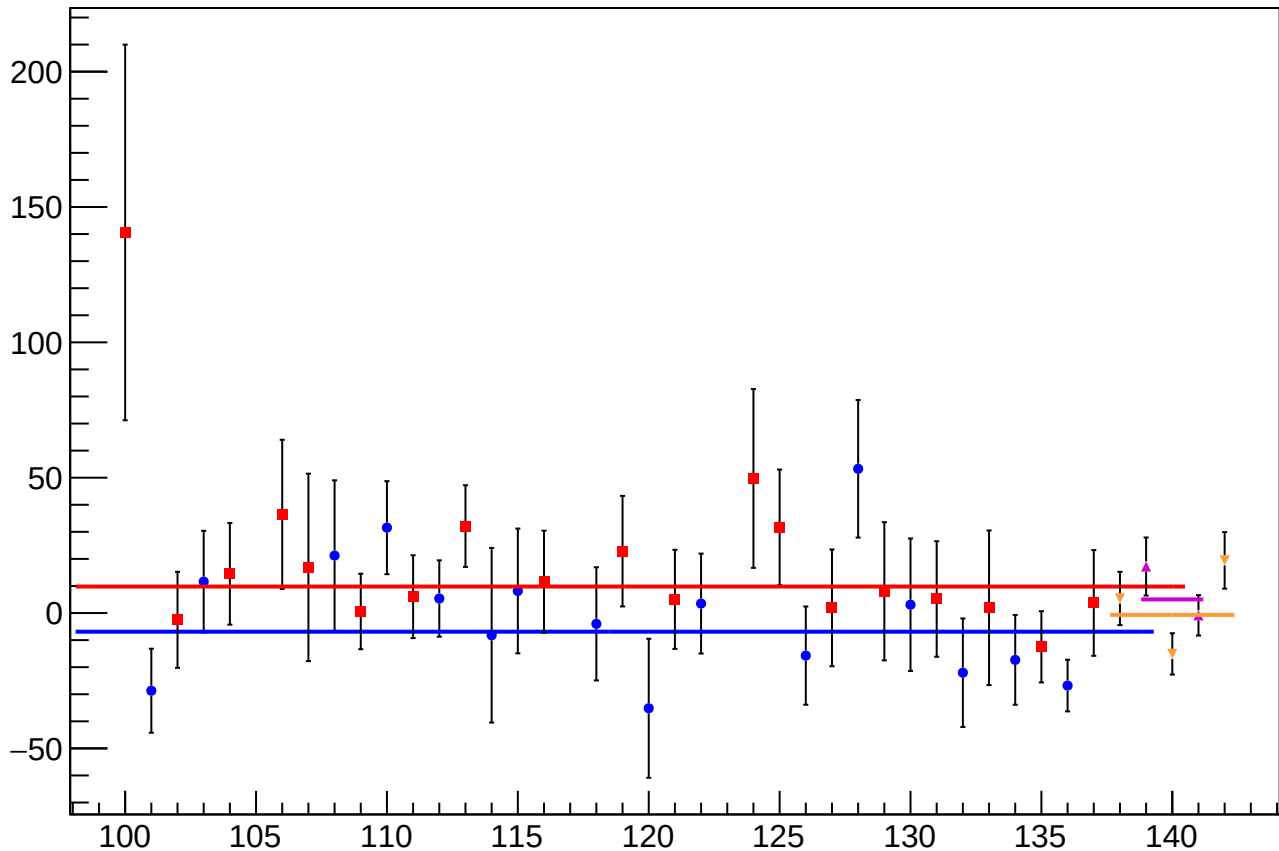
Right: 7.213 $\pm$ 0.001 χ^2 /NDF: 384182.4/34

In: 7.173 $\pm$ 0.002 χ^2 /NDF: 356216.5/17

Out: 7.086 $\pm$ 0.002 χ^2 /NDF: 167475.2/21

All: 7.127 $\pm$ 0.001 χ^2 /NDF: 525012.3/39

diff_targ_positionX_mean vs Slug, Sign Corrected



Right In: -6.891 ± 4.488 $\chi^2/\text{NDF}: 23.0/15$

Left Out: -0.685 ± 5.223 $\chi^2/\text{NDF}: 7.7/2$

Right Out: 9.790 ± 4.517 $\chi^2/\text{NDF}: 14.0/18$

Left In: 5.036 ± 6.125 $\chi^2/\text{NDF}: 1.9/1$

Left: 1.724 ± 3.974 $\chi^2/\text{NDF}: 10.1/4$

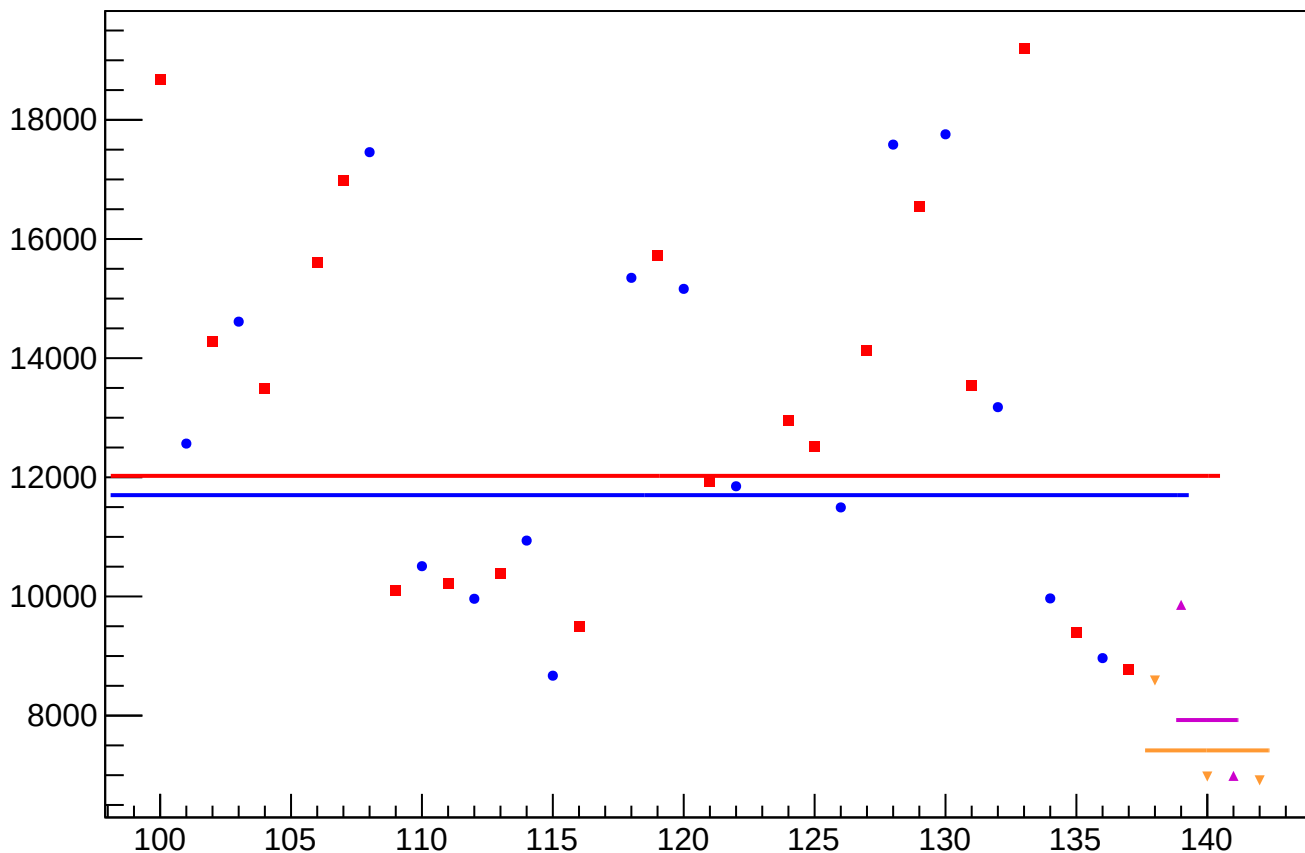
Right: 1.396 ± 3.184 $\chi^2/\text{NDF}: 43.9/34$

In: -2.724 ± 3.620 $\chi^2/\text{NDF}: 27.4/17$

Out: 5.308 ± 3.417 $\chi^2/\text{NDF}: 23.9/21$

All: 1.524 ± 2.485 $\chi^2/\text{NDF}: 54.0/39$

diff_targ_positionX_rms vs Slug, Sign Corrected



Right In: 11700.622 $\pm$ 3.174 χ^2/NDF : 740185.3/15

Left Out: 7415.799 $\pm$ 3.693 χ^2/NDF :39695.9/2

Right Out: 12024.262 $\pm$ 3.194 χ^2/NDF : 684788.9/18

Left In: 7925.608 $\pm$ 4.331 χ^2/NDF :96592.8/1

Left: 7630.445 $\pm$ 2.810 χ^2/NDF : 144310.9/4

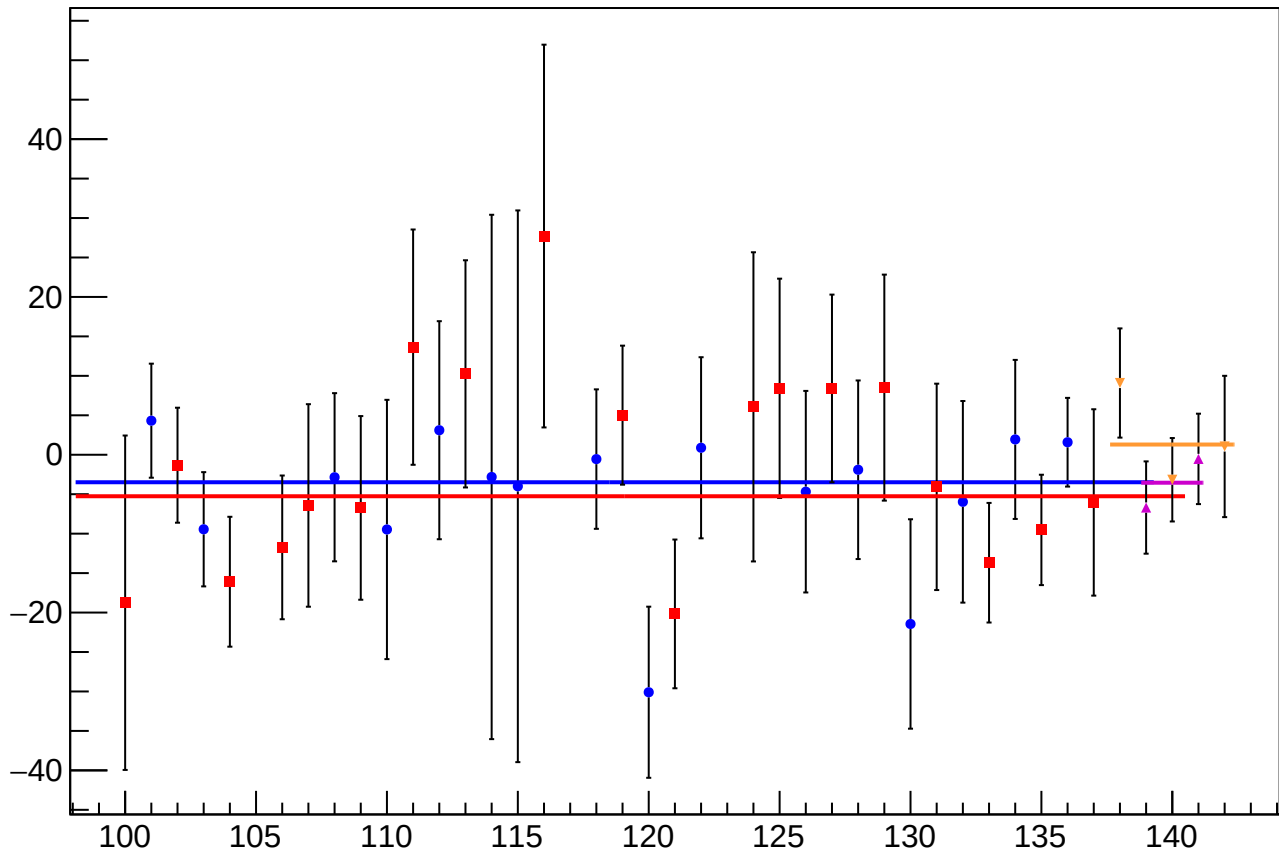
Right: 11861.399 $\pm$ 2.251 χ^2/NDF : 1430140.0/34

In: 10381.715 $\pm$ 2.560 χ^2/NDF :1331078.1/17

Out: 10052.210 $\pm$ 2.416 χ^2/NDF :1615191.2/21

All: 10207.437 $\pm$ 1.757 χ^2/NDF : 2955031.9/3

diff_targ_positionY_mean vs Slug, Sign Corrected



Right In: -3.485 ± 2.550 χ^2/NDF : 11.5/15

Left Out: 1.296 ± 3.803 χ^2/NDF : 2.0/2

Right Out: -5.259 ± 2.446 χ^2/NDF : 16.6/18

Left In: -3.544 ± 4.093 χ^2/NDF : 0.6/1

Left: -0.947 ± 2.786 χ^2/NDF : 3.3/4

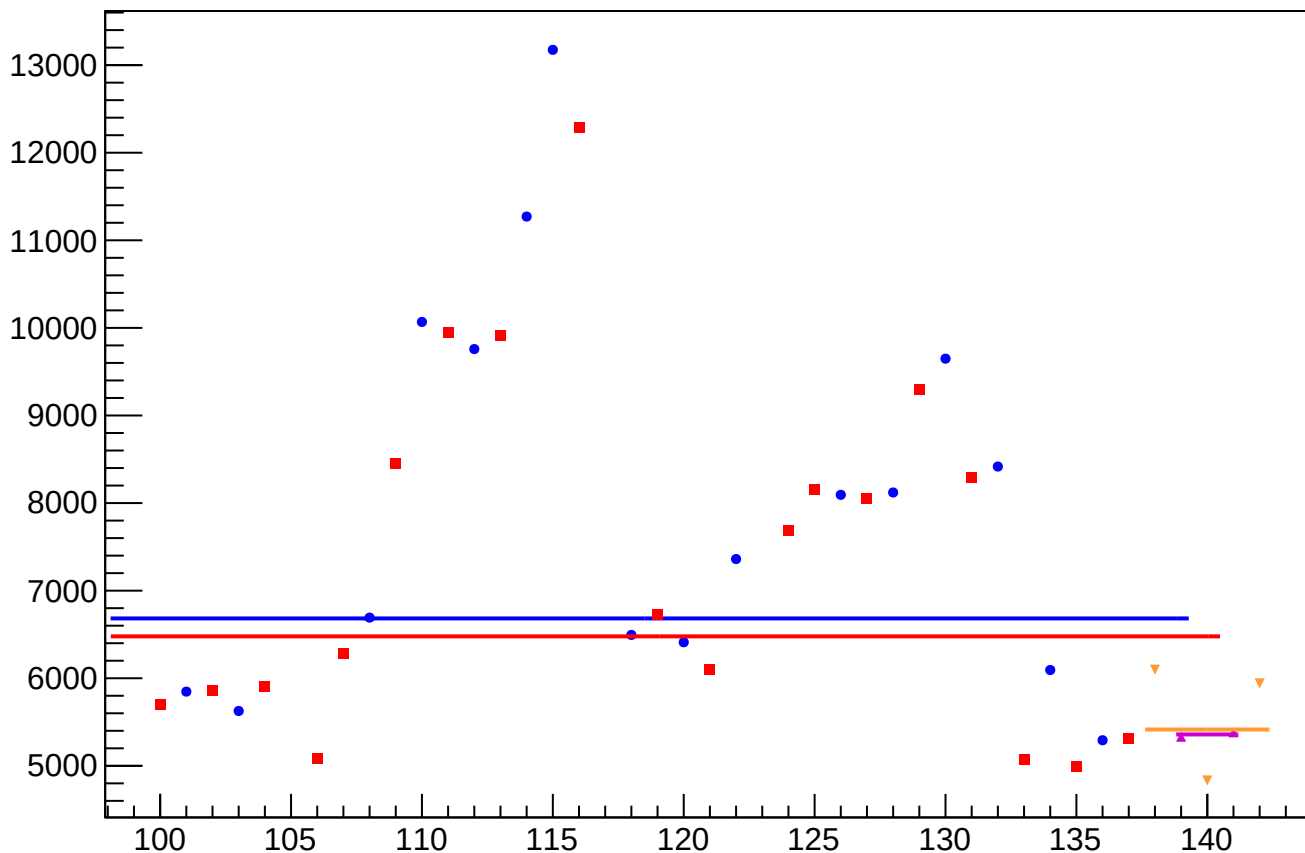
Right: -4.409 ± 1.765 χ^2/NDF : 28.3/34

In: -3.502 ± 2.164 χ^2/NDF : 12.1/17

Out: -3.341 ± 2.057 χ^2/NDF : 20.7/21

All: -3.417 ± 1.491 χ^2/NDF : 32.8/39

diff_targ_positionY_rms vs Slug, Sign Corrected



Right In: 6682.988 ± 1.803 $\chi^2/\text{NDF}: 692200.2/15$

Left Out: 5414.830 ± 2.689 $\chi^2/\text{NDF}: 50601.8/2$

Right Out: 6478.126 ± 1.730 $\chi^2/\text{NDF}: 839226.8/18$

Left In: 5358.390 ± 2.894 $\chi^2/\text{NDF}: 75.7/1$

Left: 5388.676 ± 1.970 $\chi^2/\text{NDF}: 50881.7/4$

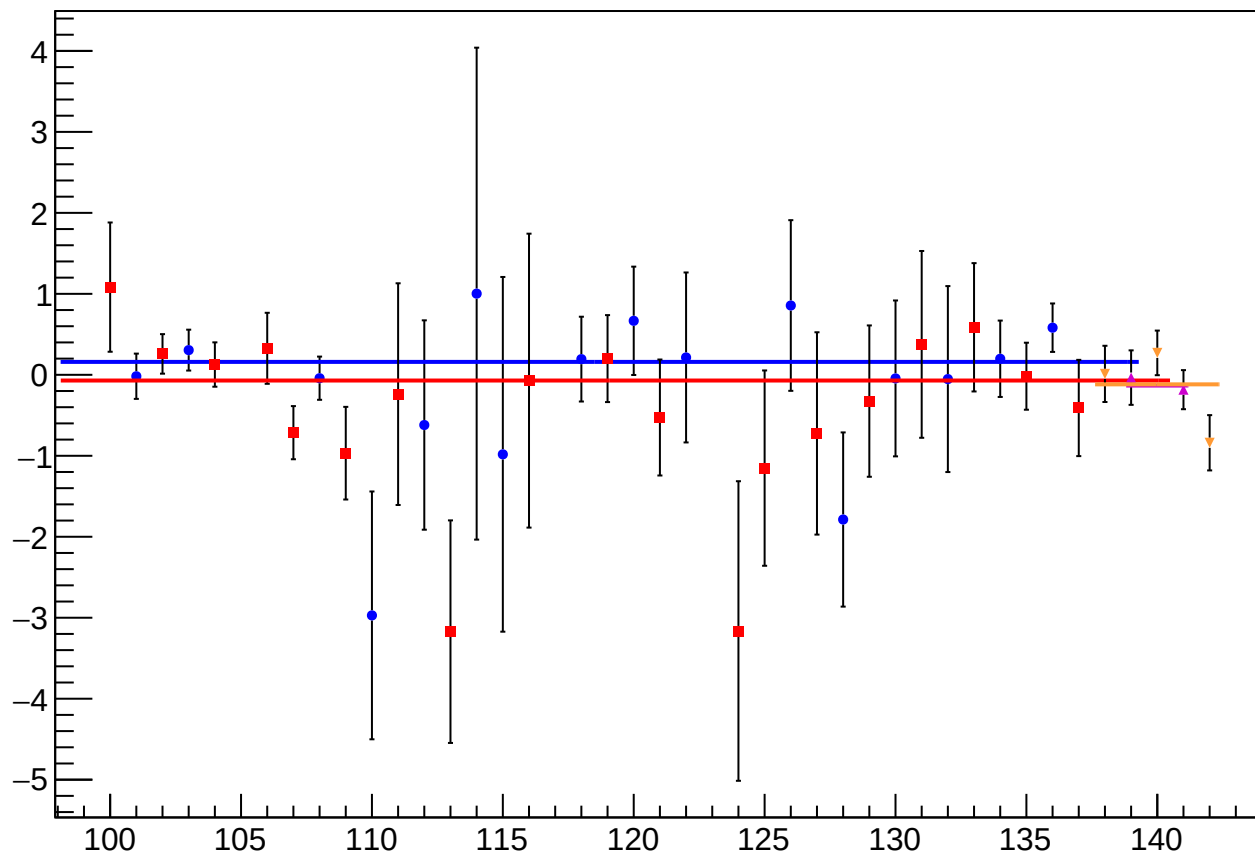
Right: 6576.323 ± 1.248 $\chi^2/\text{NDF}: 1538150.0/34$

In: 6312.656 ± 1.530 $\chi^2/\text{NDF}: 843196.7/17$

Out: 6166.956 ± 1.455 $\chi^2/\text{NDF}: 1000402.3/21$

All: 6236.129 ± 1.054 $\chi^2/\text{NDF}: 1848360.7/39$

diff_targ_thetaX_mean vs Slug, Sign Corrected



Right In: 0.160 $\pm$ 0.120 χ^2/NDF : 12.6/15

Left Out: -0.118 $\pm$ 0.182 χ^2/NDF : 6.6/2

Right Out: -0.070 $\pm$ 0.120 χ^2/NDF : 22.5/18

Left In: -0.133 $\pm$ 0.196 χ^2/NDF : 0.1/1

Left: -0.125 $\pm$ 0.134 χ^2/NDF : 6.7/4

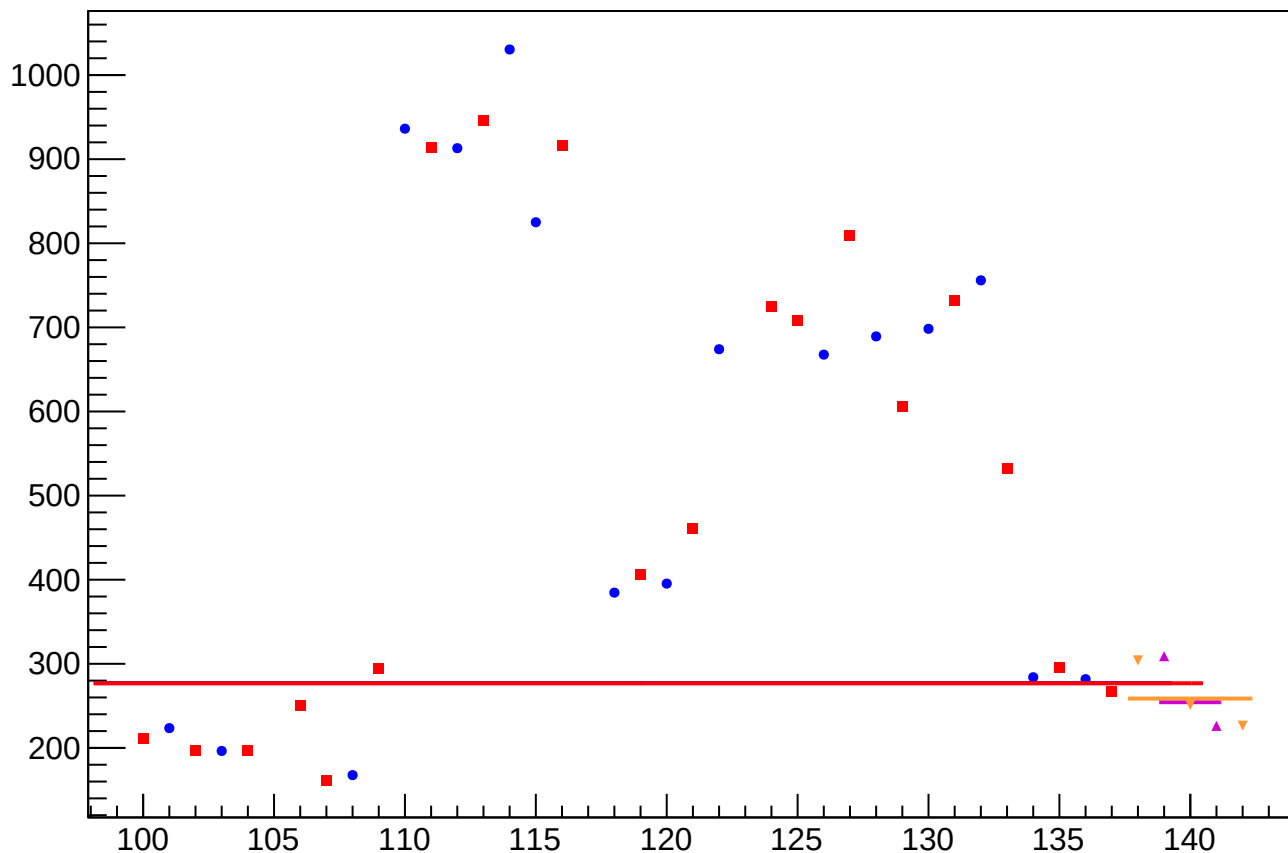
Right: 0.045 $\pm$ 0.085 χ^2/NDF : 36.9/34

In: 0.080 $\pm$ 0.102 χ^2/NDF : 14.3/17

Out: -0.085 $\pm$ 0.100 χ^2/NDF : 29.1/21

All: -0.004 $\pm$ 0.071 χ^2/NDF : 44.8/39

diff_targ_thetaX_rms vs Slug, Sign Corrected



Right In: 277.017 $\pm$ 0.085 χ^2 /NDF: 3450533.8/15

Left Out: 258.677 $\pm$ 0.129 χ^2 /NDF:53536.4/2

Right Out: 276.866 $\pm$ 0.085 χ^2 /NDF: 3571620.7/18

Left In: 254.365 $\pm$ 0.139 χ^2 /NDF:80115.8/1

Left: 256.676 $\pm$ 0.094 χ^2 /NDF: 134170.8/4

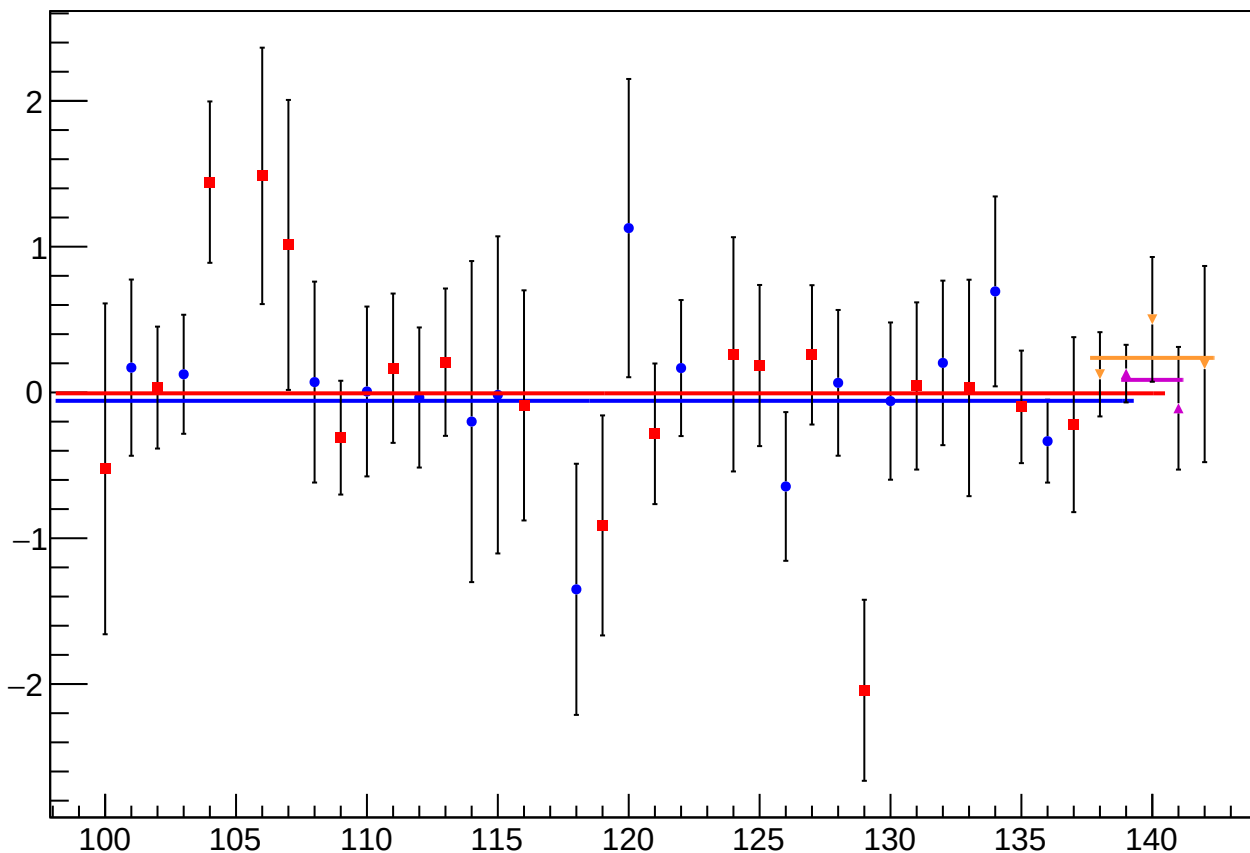
Right: 276.942 $\pm$ 0.060 χ^2 /NDF: 7022156.1/34

In: 270.875 $\pm$ 0.072 χ^2 /NDF:3550109.4/17

Out: 271.392 $\pm$ 0.071 χ^2 /NDF:3639057.0/21

All: 271.139 $\pm$ 0.051 χ^2 /NDF: 7189192.6/39

diff_targ_thetaY_mean vs Slug, Sign Corrected



Right In: -0.057 ± 0.134 χ^2/NDF : 8.1/15

Left Out: 0.237 ± 0.226 χ^2/NDF : 0.5/2

Right Out: -0.006 ± 0.129 χ^2/NDF : 25.2/18

Left In: 0.086 ± 0.179 χ^2/NDF : 0.3/1

Left: 0.145 ± 0.140 χ^2/NDF : 1.1/4

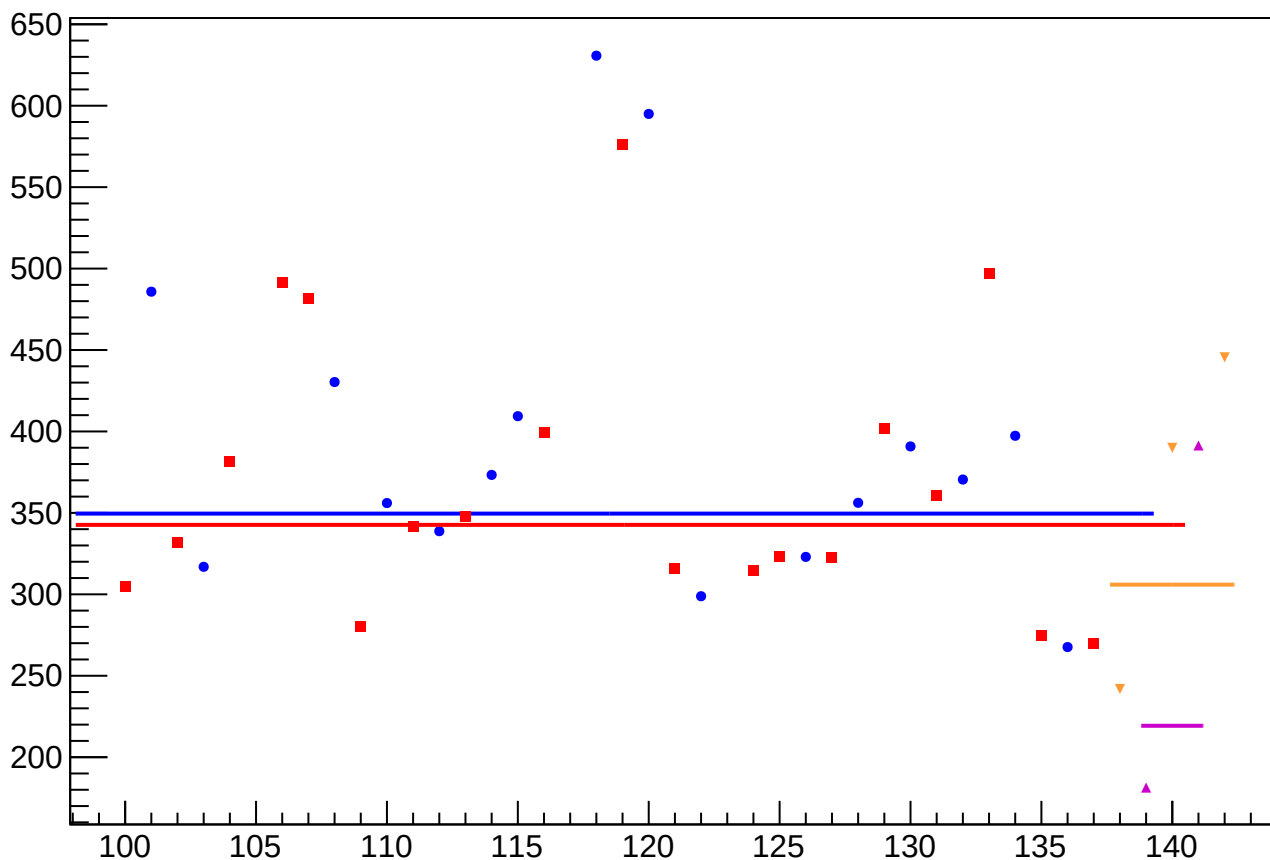
Right: -0.031 ± 0.093 χ^2/NDF : 33.4/34

In: -0.006 ± 0.107 χ^2/NDF : 8.8/17

Out: 0.054 ± 0.112 χ^2/NDF : 26.6/21

All: 0.023 ± 0.077 χ^2/NDF : 35.5/39

diff_targ_thetaY_rms vs Slug, Sign Corrected



Right In: 349.560 $\pm$ 0.095 χ^2 /NDF: 699303.9/15

Left Out: 305.947 $\pm$ 0.160 χ^2 /NDF: 261431.2/2

Right Out: 342.641 $\pm$ 0.091 χ^2 /NDF: 575759.9/18

Left In: 219.291 $\pm$ 0.126 χ^2 /NDF: 408474.3/1

Left: 252.724 $\pm$ 0.099 χ^2 /NDF: 851140.3/4

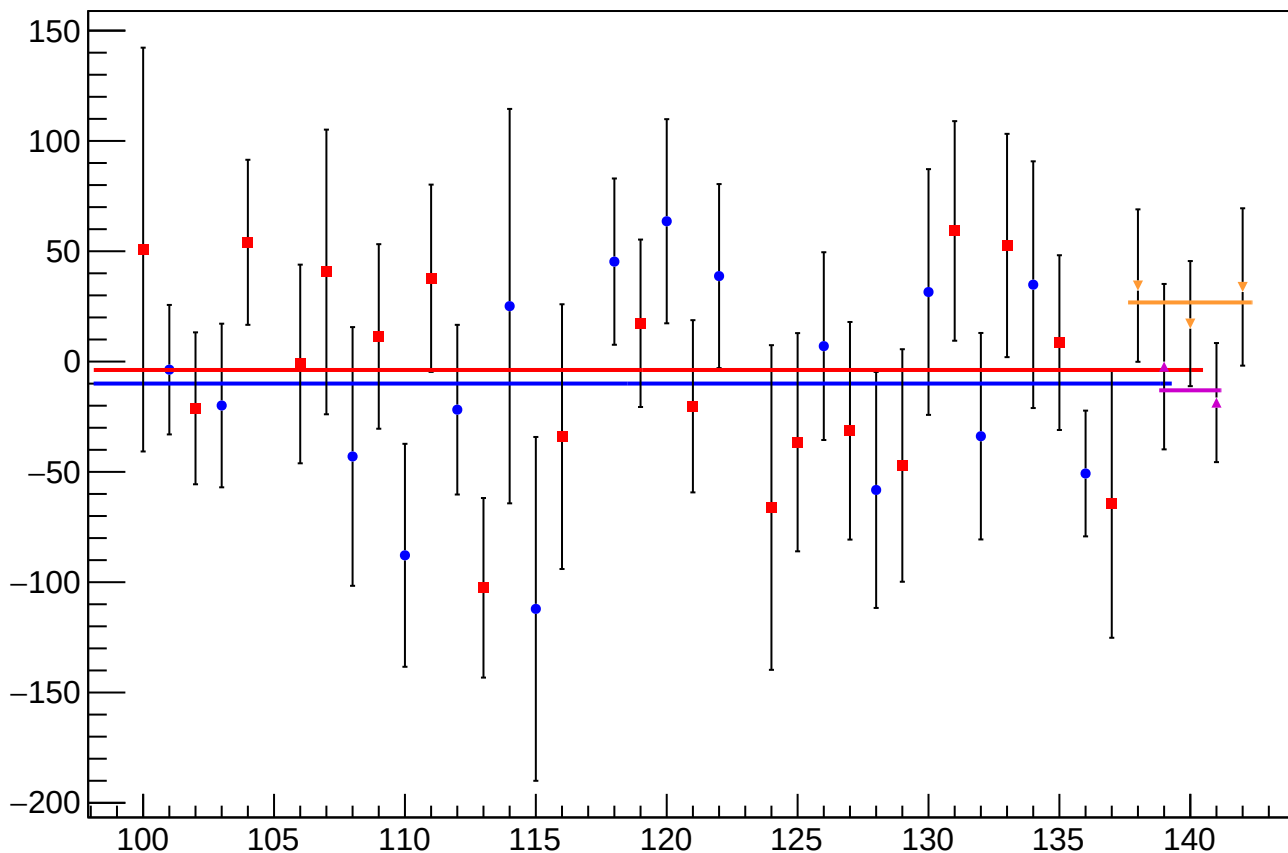
Right: 345.972 $\pm$ 0.066 χ^2 /NDF: 1277836.8/34

In: 302.797 $\pm$ 0.076 χ^2 /NDF: 1788282.2/17

Out: 333.608 $\pm$ 0.079 χ^2 /NDF: 877075.4/21

All: 317.527 $\pm$ 0.055 χ^2 /NDF: 2744441.2/39

diff_bpmE_mean vs Slug, Sign Corrected



Right In: -9.969 ± 10.836 $\chi^2/\text{NDF}: 15.3/15$

Left Out: 26.795 ± 18.673 $\chi^2/\text{NDF}: 0.2/2$

Right Out: -3.814 ± 10.636 $\chi^2/\text{NDF}: 17.3/18$

Left In: -13.031 ± 21.903 $\chi^2/\text{NDF}: 0.1/1$

Left: 10.032 ± 14.210 $\chi^2/\text{NDF}: 2.2/4$

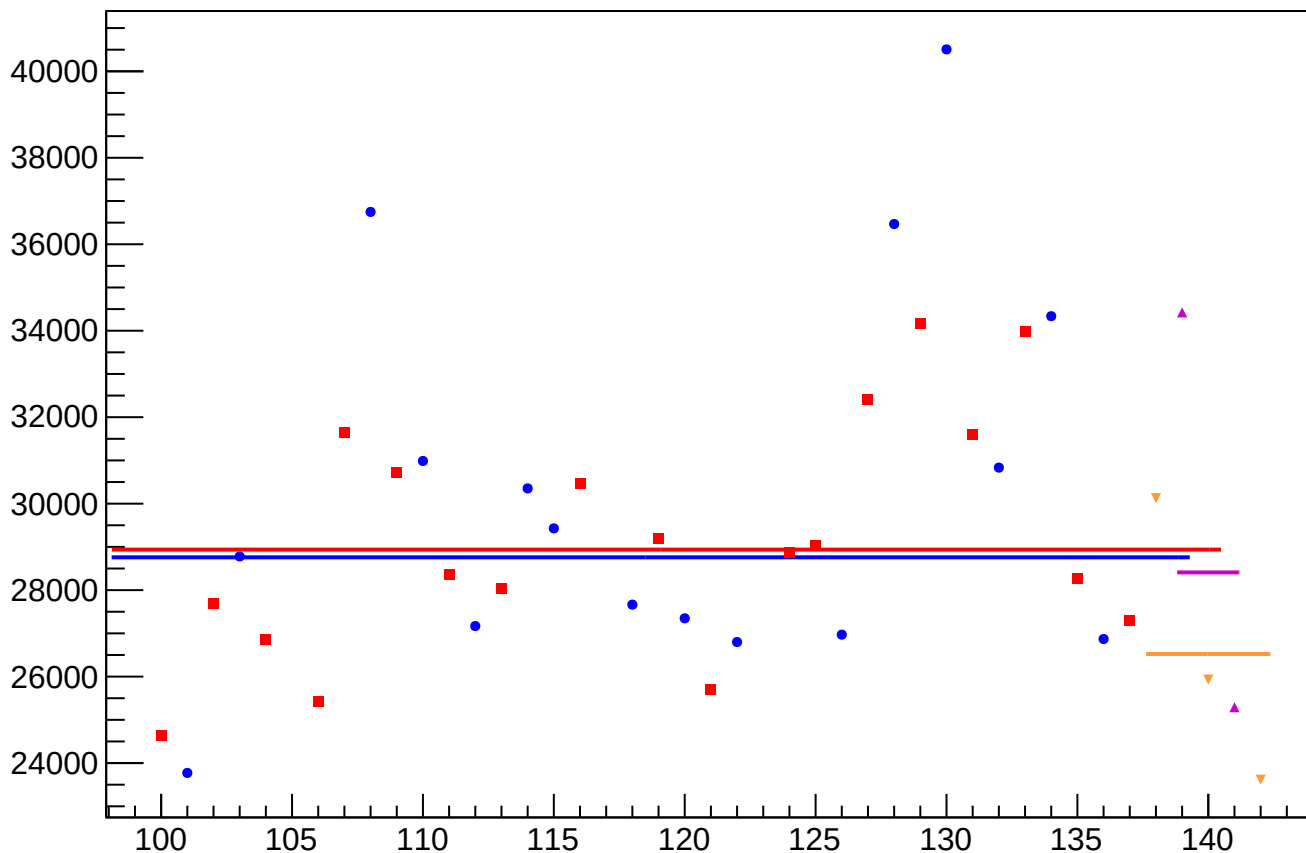
Right: -6.834 ± 7.591 $\chi^2/\text{NDF}: 32.8/34$

In: -10.571 ± 9.713 $\chi^2/\text{NDF}: 15.4/17$

Out: 3.685 ± 9.242 $\chi^2/\text{NDF}: 19.5/21$

All: -3.090 ± 6.695 $\chi^2/\text{NDF}: 36.1/39$

diff_bpmE_rms vs Slug, Sign Corrected



Right In: 28759.090+/-7.662 χ^2/NDF : 277639.9/15

Left Out: 26522.289+/-13.204 χ^2/NDF : 35943.2/2

Right Out: 28937.633+/-7.521 χ^2/NDF : 106266.0/18

Left In: 28409.950+/-15.488 χ^2/NDF : 78168.4/1

Left: 27316.787+/-10.048 χ^2/NDF : 122714.3/4

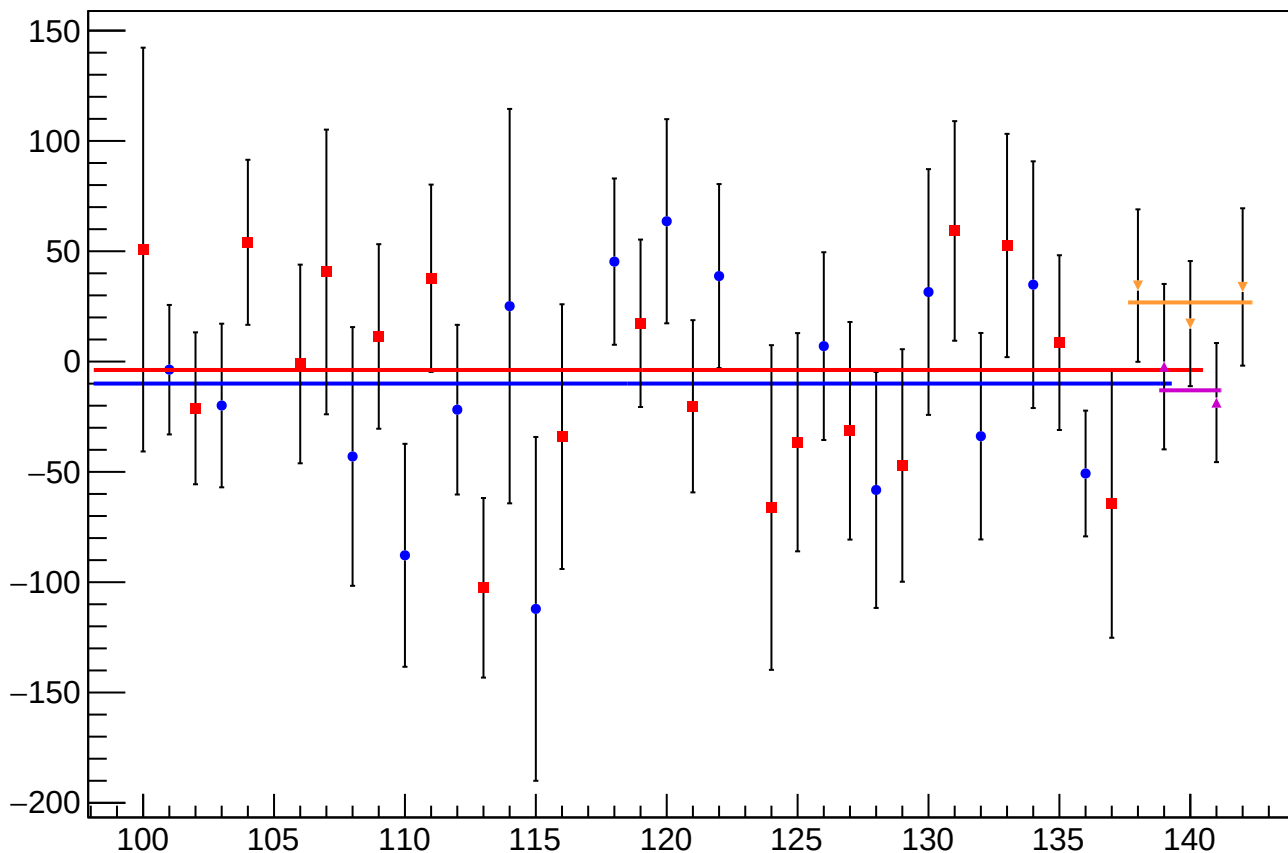
Right: 28850.024+/-5.367 χ^2/NDF : 384182.4/34

In: 28690.435+/-6.868 χ^2/NDF : 356216.5/17

Out: 28345.931+/-6.535 χ^2/NDF : 167475.2/21

All: 28509.636+/-4.734 χ^2/NDF : 525012.3/39

diff_bpmEX_mean vs Slug, Sign Corrected



Right In: -9.969 ± 10.836 χ^2/NDF : 15.3/15

Left Out: 26.795 ± 18.673 χ^2/NDF : 0.2/2

Right Out: -3.814 ± 10.636 χ^2/NDF : 17.3/18

Left In: -13.031 ± 21.903 χ^2/NDF : 0.1/1

Left: 10.032 ± 14.210 χ^2/NDF : 2.2/4

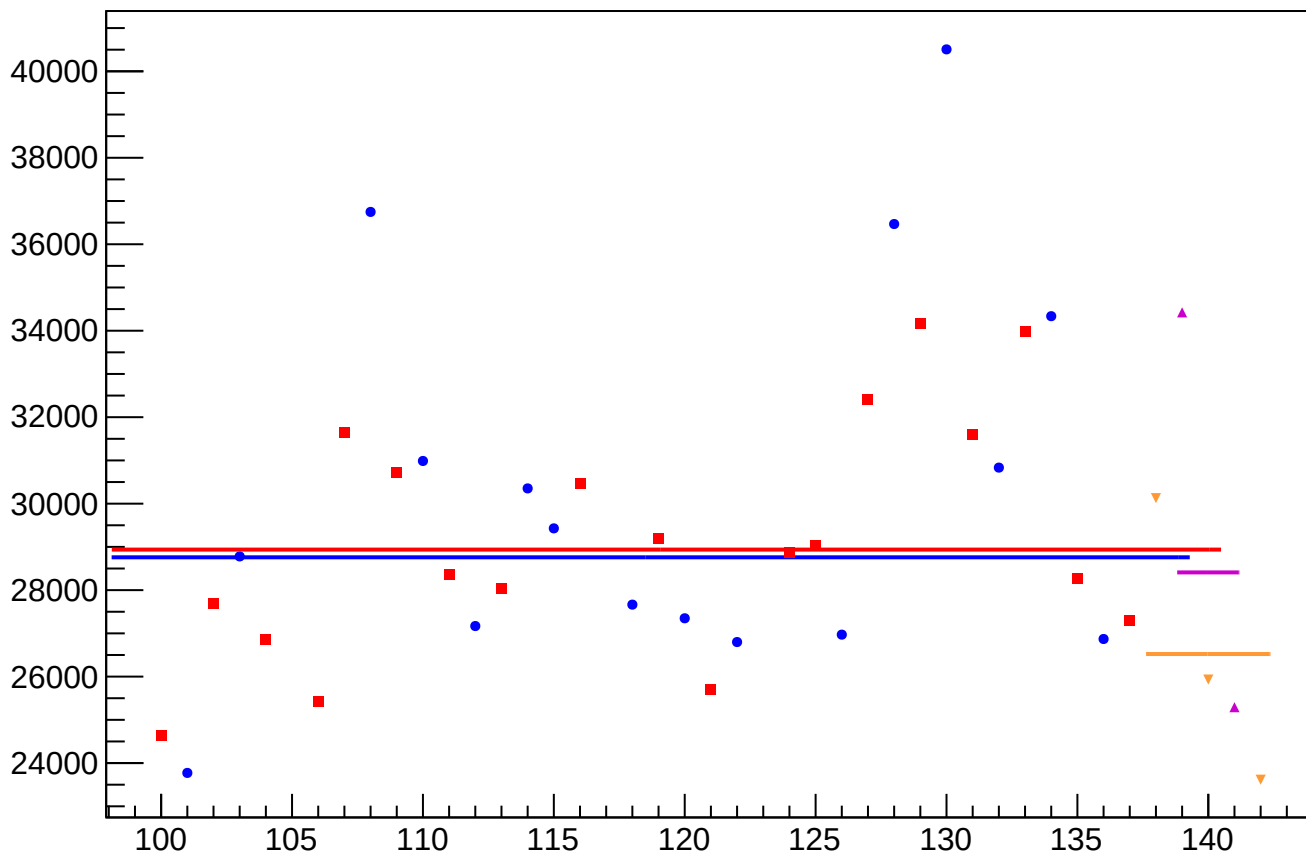
Right: -6.834 ± 7.591 χ^2/NDF : 32.8/34

In: -10.571 ± 9.713 χ^2/NDF : 15.4/17

Out: 3.685 ± 9.242 χ^2/NDF : 19.5/21

All: -3.090 ± 6.695 χ^2/NDF : 36.1/39

diff_bpmEX_rms vs Slug, Sign Corrected



Right In: 28759.090 +/- 7.662 χ^2/NDF : 277639.9/15

Left Out: 26522.289 +/- 13.204 χ^2/NDF : 35943.2/2

Right Out: 28937.633 +/- 7.521 χ^2/NDF : 106266.0/18

Left In: 28409.950 +/- 15.488 χ^2/NDF : 78168.4/1

Left: 27316.787 +/- 10.048 χ^2/NDF : 122714.3/4

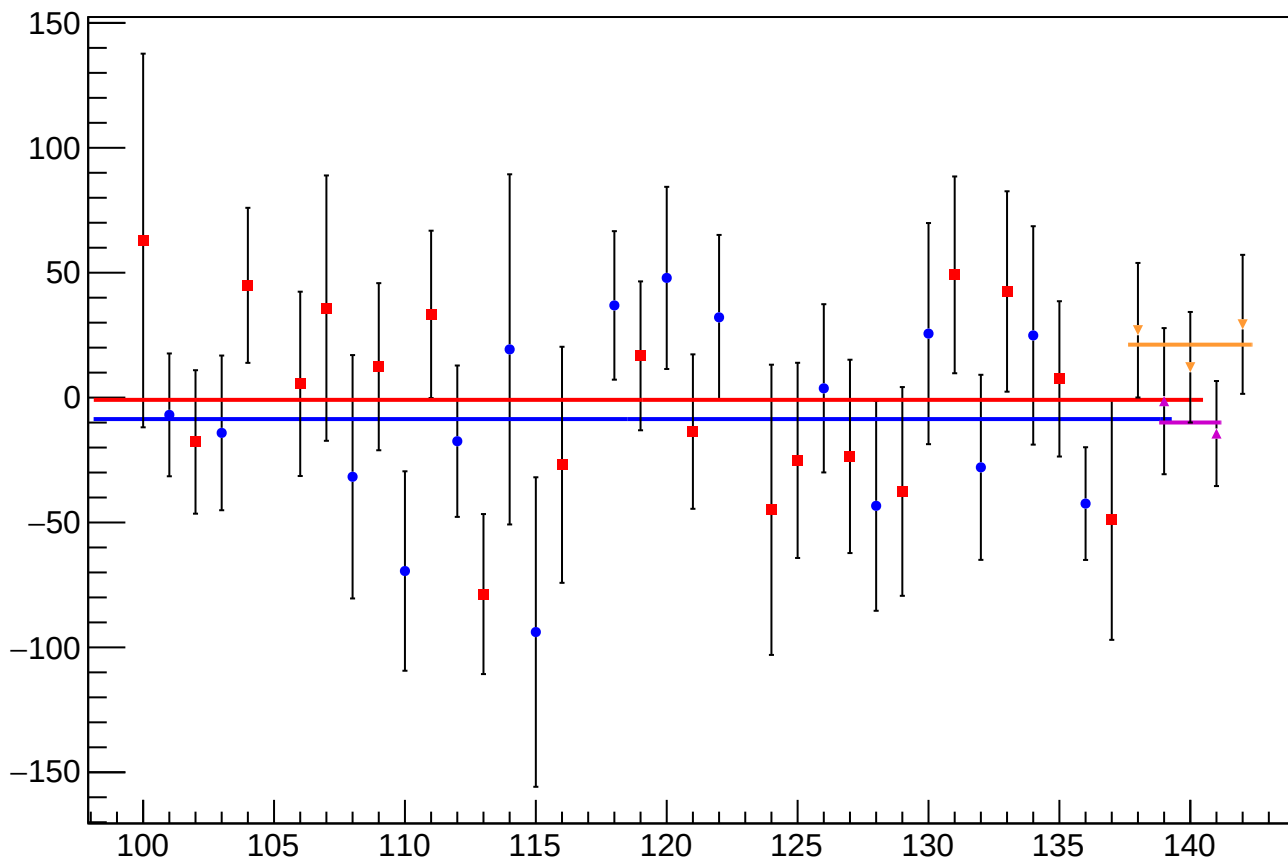
Right: 28850.024 +/- 5.367 χ^2/NDF : 384182.4/34

In: 28690.435 +/- 6.868 χ^2/NDF : 356216.5/17

Out: 28345.931 +/- 6.535 χ^2/NDF : 167475.2/21

All: 28509.636 +/- 4.734 χ^2/NDF : 525012.3/39

diff_bpmE_11X12X_mean vs Slug, Sign Corrected



Right In: -8.599 ± 8.678 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 21.197 ± 14.569 $\chi^2/\text{NDF}: 0.3/2$

Right Out: -0.904 ± 8.506 $\chi^2/\text{NDF}: 17.6/18$

Left In: -9.972 ± 17.074 $\chi^2/\text{NDF}: 0.1/1$

Left: 8.065 ± 11.083 $\chi^2/\text{NDF}: 2.4/4$

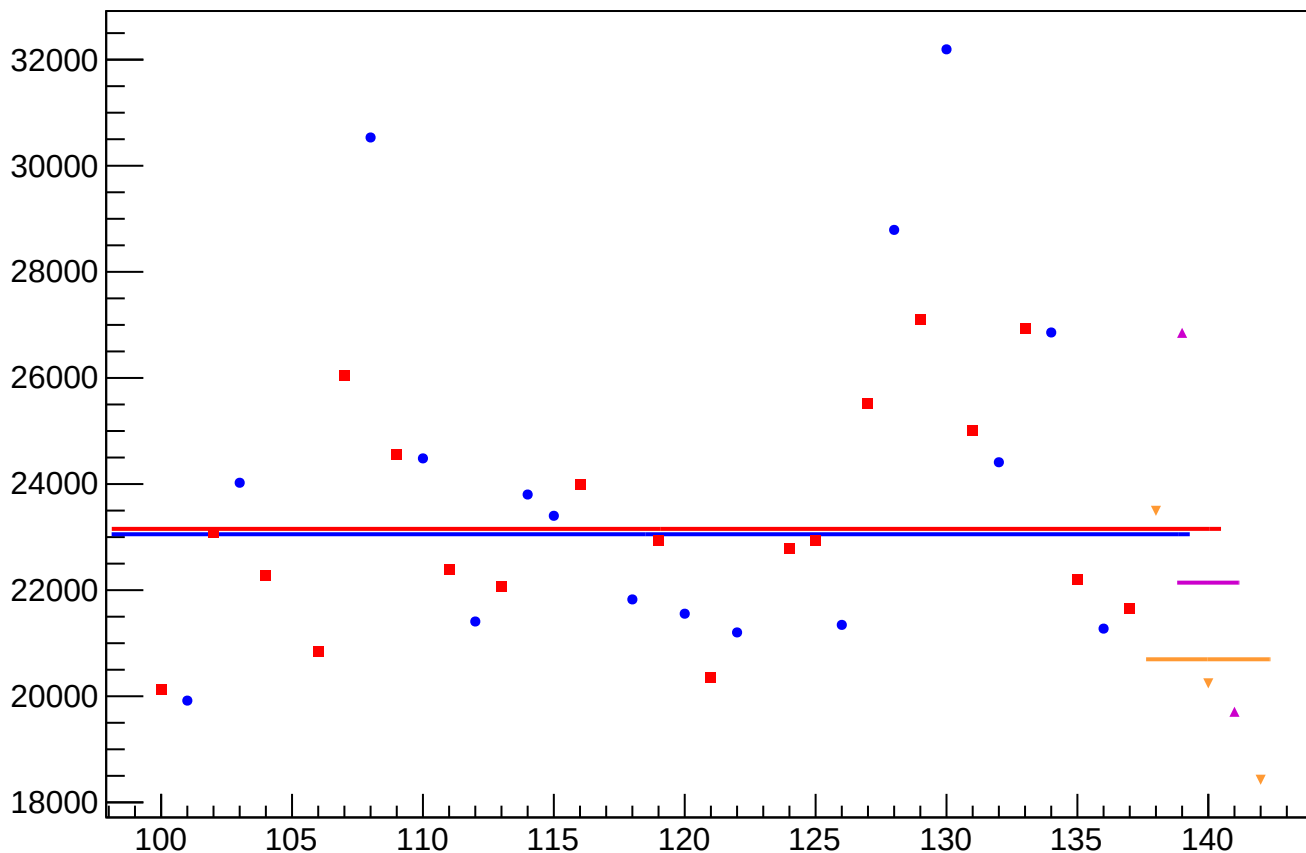
Right: -4.674 ± 6.075 $\chi^2/\text{NDF}: 33.5/34$

In: -8.881 ± 7.736 $\chi^2/\text{NDF}: 15.6/17$

Out: 4.714 ± 7.346 $\chi^2/\text{NDF}: 19.6/21$

All: -1.731 ± 5.327 $\chi^2/\text{NDF}: 36.9/39$

diff_bpmE_11X12X_rms vs Slug, Sign Corrected



Right In: 23053.910+/-6.137 χ^2/NDF : 261444.9/15

Left Out: 20696.886+/-10.302 χ^2/NDF : 35754.5/2

Right Out: 23155.251+/-6.015 χ^2/NDF : 93894.1/18

Left In: 22141.612+/-12.073 χ^2/NDF : 78620.7/1

Left: 21305.572+/-7.837 χ^2/NDF : 122661.7/4

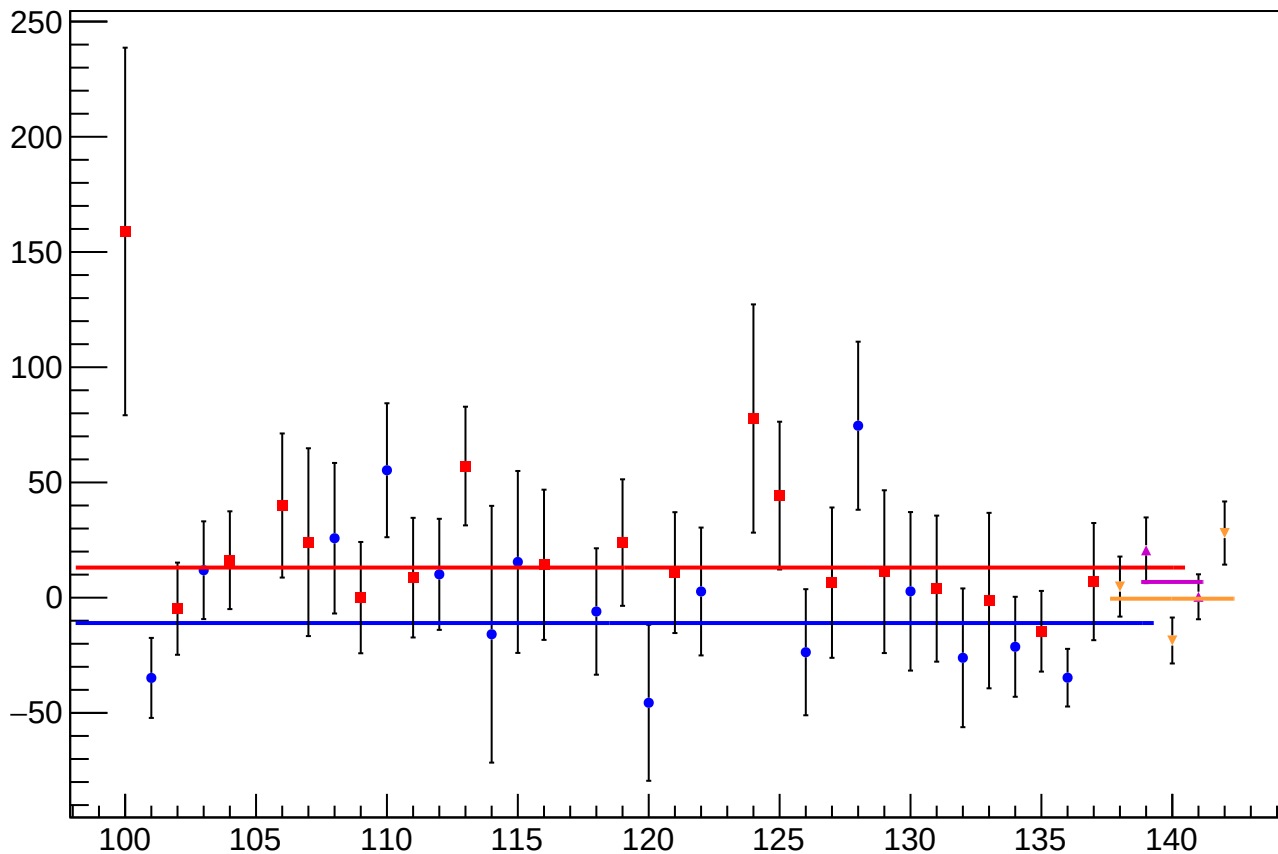
Right: 23105.598+/-4.295 χ^2/NDF : 355478.0/34

In: 22866.606+/-5.470 χ^2/NDF : 344603.2/17

Out: 22530.286+/-5.194 χ^2/NDF : 172119.9/21

All: 22689.735+/-3.767 χ^2/NDF : 518710.8/39

diff_bpm4aesumX_mean vs Slug, Sign Corrected



Left: 2.614 $\pm$ 5.219 χ^2/NDF : 9.6/4

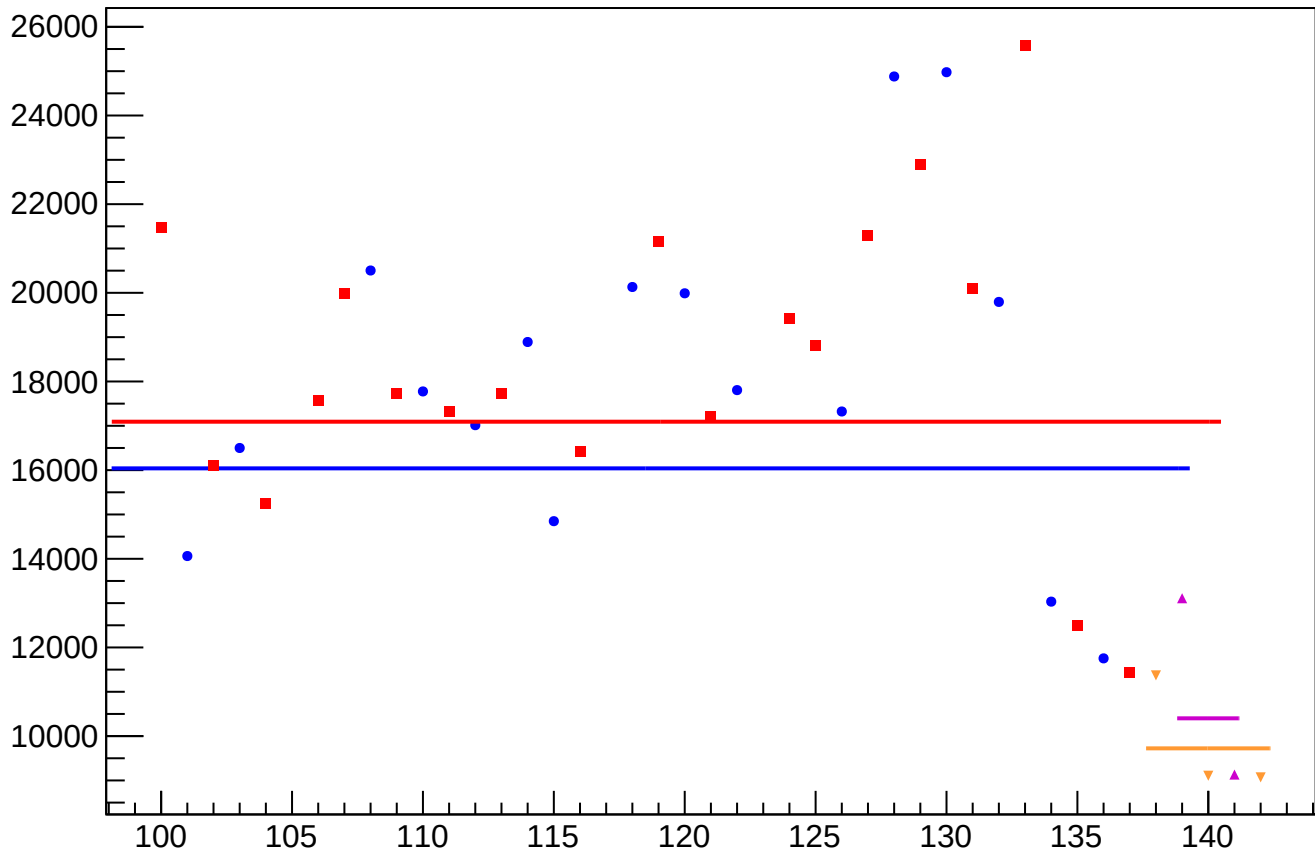
Right: 0.599 $\pm$ 4.430 χ^2/NDF : 43.3/34

In: -4.426 $\pm$ 4.889 χ^2/NDF : 26.5/17

Out: 6.798 $\pm$ 4.671 χ^2/NDF : 23.7/21

All: 1.442 $\pm$ 3.377 χ^2/NDF : 53.0/39

diff_bpm4aesumX_rms vs Slug, Sign Corrected



Right In: 16040.060 $\pm$ 4.352 χ^2 /NDF: 722678.9/15

Left Out: 9723.746 $\pm$ 4.847 χ^2 /NDF: 44177.7/2

Right Out: 17092.658 $\pm$ 4.513 χ^2 /NDF: 535464.0/18

Left In: 10401.135 $\pm$ 5.692 χ^2 /NDF: 106067.6/1

Left: 10008.472 $\pm$ 3.690 χ^2 /NDF: 158454.4/4

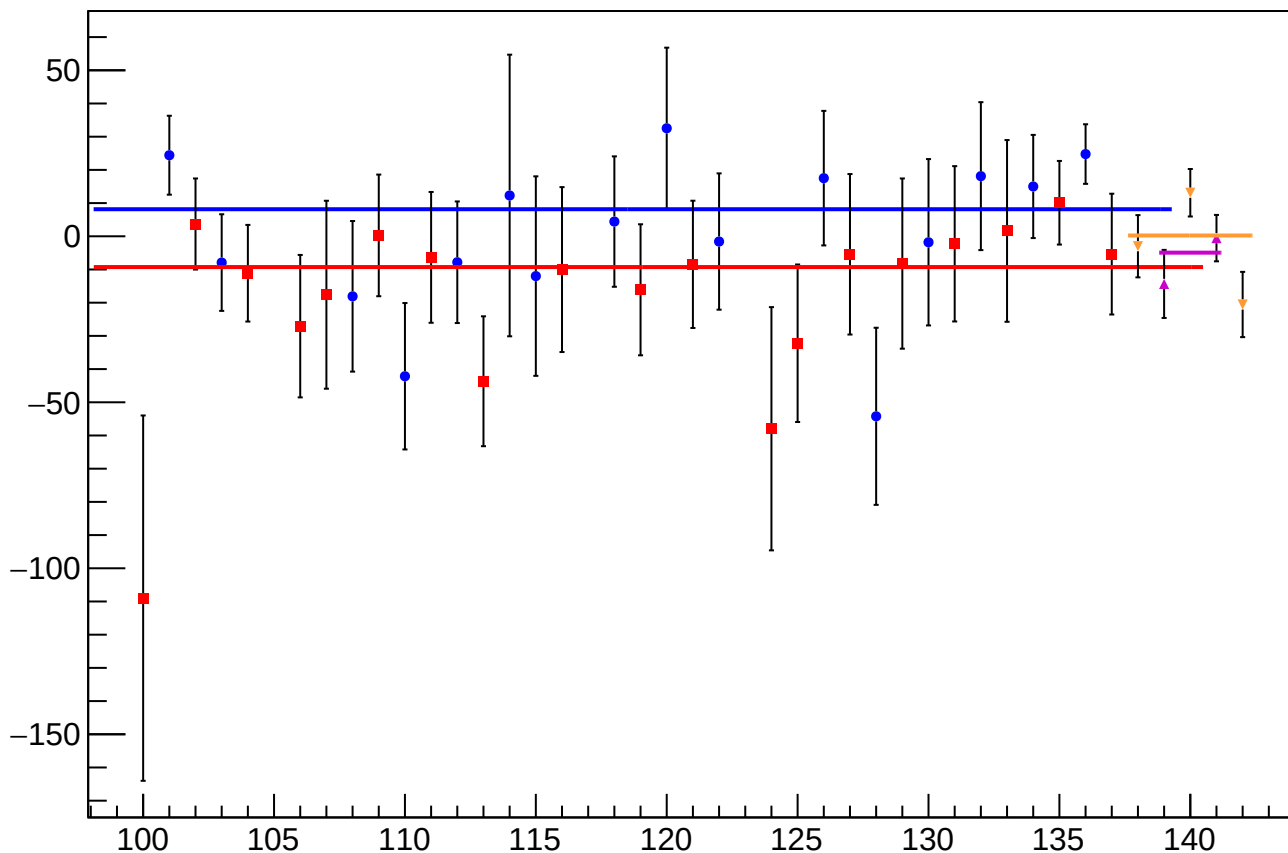
Right: 16547.306 $\pm$ 3.133 χ^2 /NDF: 1286331.2/34

In: 13959.742 $\pm$ 3.457 χ^2 /NDF: 1448063.3/17

Out: 13671.170 $\pm$ 3.303 χ^2 /NDF: 1817719.9/21

All: 13808.863 $\pm$ 2.388 χ^2 /NDF: 3269425.6/3

diff_bpm4aediffX_mean vs Slug, Sign Corrected



Right In: 8.150 $\pm$ 4.423 χ^2 /NDF: 21.8/15

Left Out: 0.238 $\pm$ 4.921 χ^2 /NDF: 7.8/2

Right Out: -9.270 $\pm$ 4.607 χ^2 /NDF: 13.9/18

Left In: -4.929 $\pm$ 5.776 χ^2 /NDF: 1.2/1

Left: -1.935 $\pm$ 3.746 χ^2 /NDF: 9.5/4

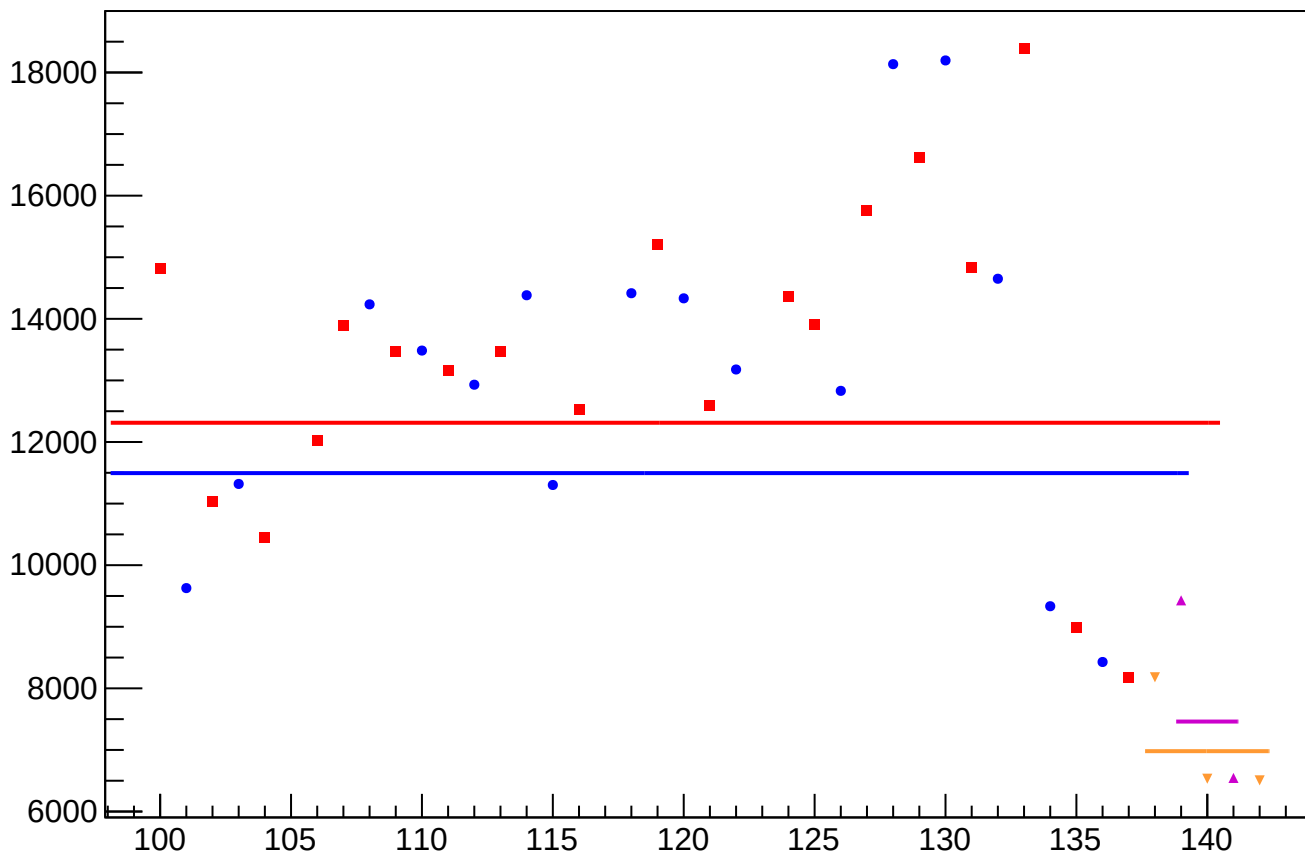
Right: -0.204 $\pm$ 3.191 χ^2 /NDF: 43.1/34

In: 3.316 $\pm$ 3.512 χ^2 /NDF: 26.3/17

Out: -4.829 $\pm$ 3.363 χ^2 /NDF: 23.7/21

All: -0.932 $\pm$ 2.429 χ^2 /NDF: 52.8/39

diff_bpm4aediffX_rms vs Slug, Sign Corrected



Right In: 11494.969+/-3.127 χ^2/NDF : 789990.1/15

Left Out: 6980.122+/-3.480 χ^2/NDF : 45254.9/2

Right Out: 12312.550+/-3.258 χ^2/NDF : 598755.3/18

Left In: 7460.859+/-4.084 χ^2/NDF : 107981.6/1

Left: 7182.331+/-2.649 χ^2/NDF : 161263.3/4

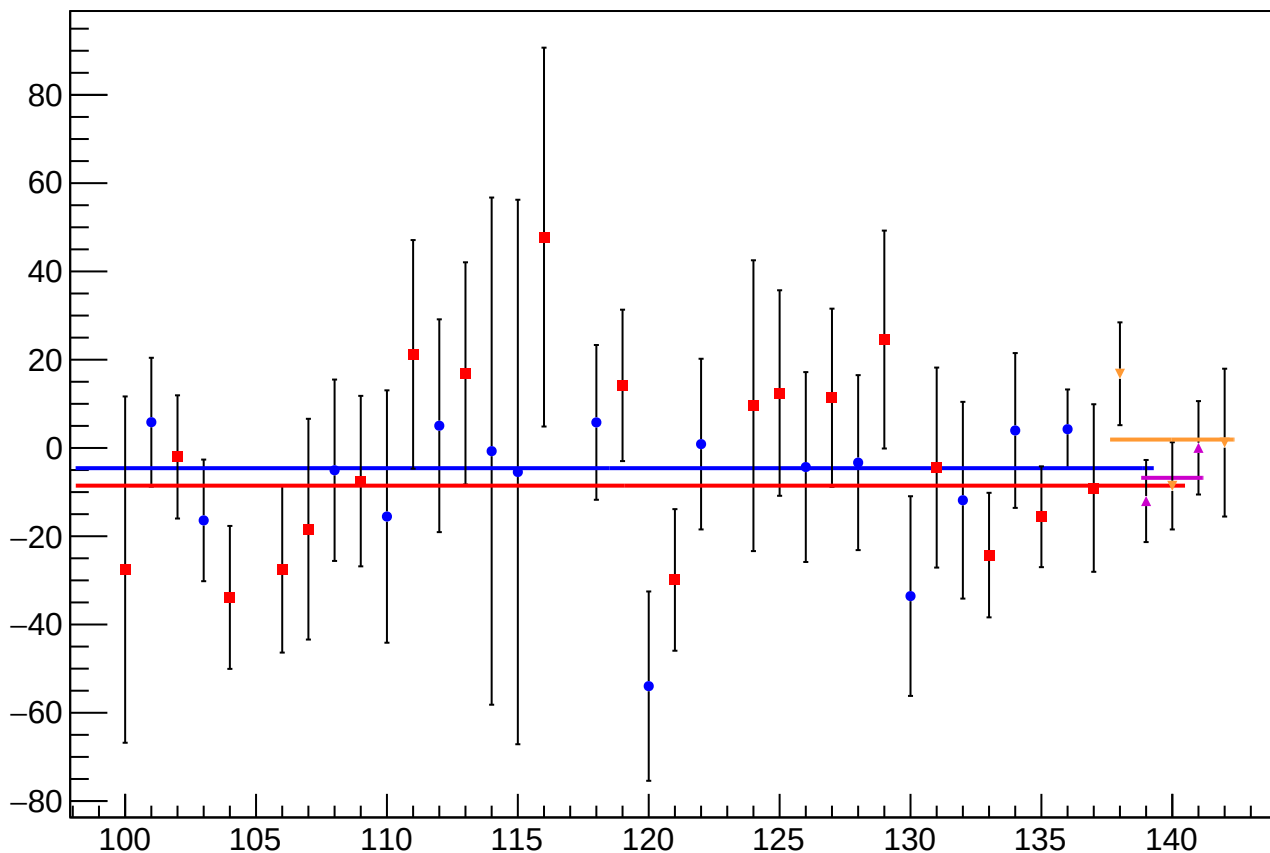
Right: 11887.075+/-2.256 χ^2/NDF : 1421522.1/34

In: 10003.911+/-2.483 χ^2/NDF : 1512967.0/17

Out: 9822.029+/-2.378 χ^2/NDF : 1895347.2/21

All: 9909.051+/-1.718 χ^2/NDF : 3411112.5/39

diff_bpm4aesumY_mean vs Slug, Sign Corrected



Right In: -4.578 ± 4.554 χ^2/NDF : 10.2/15

Left Out: 1.905 ± 6.871 χ^2/NDF : 2.8/2

Right Out: -8.537 ± 4.392 χ^2/NDF : 17.2/18

Left In: -6.767 ± 6.986 χ^2/NDF : 0.7/1

Left: -2.359 ± 4.899 χ^2/NDF : 4.3/4

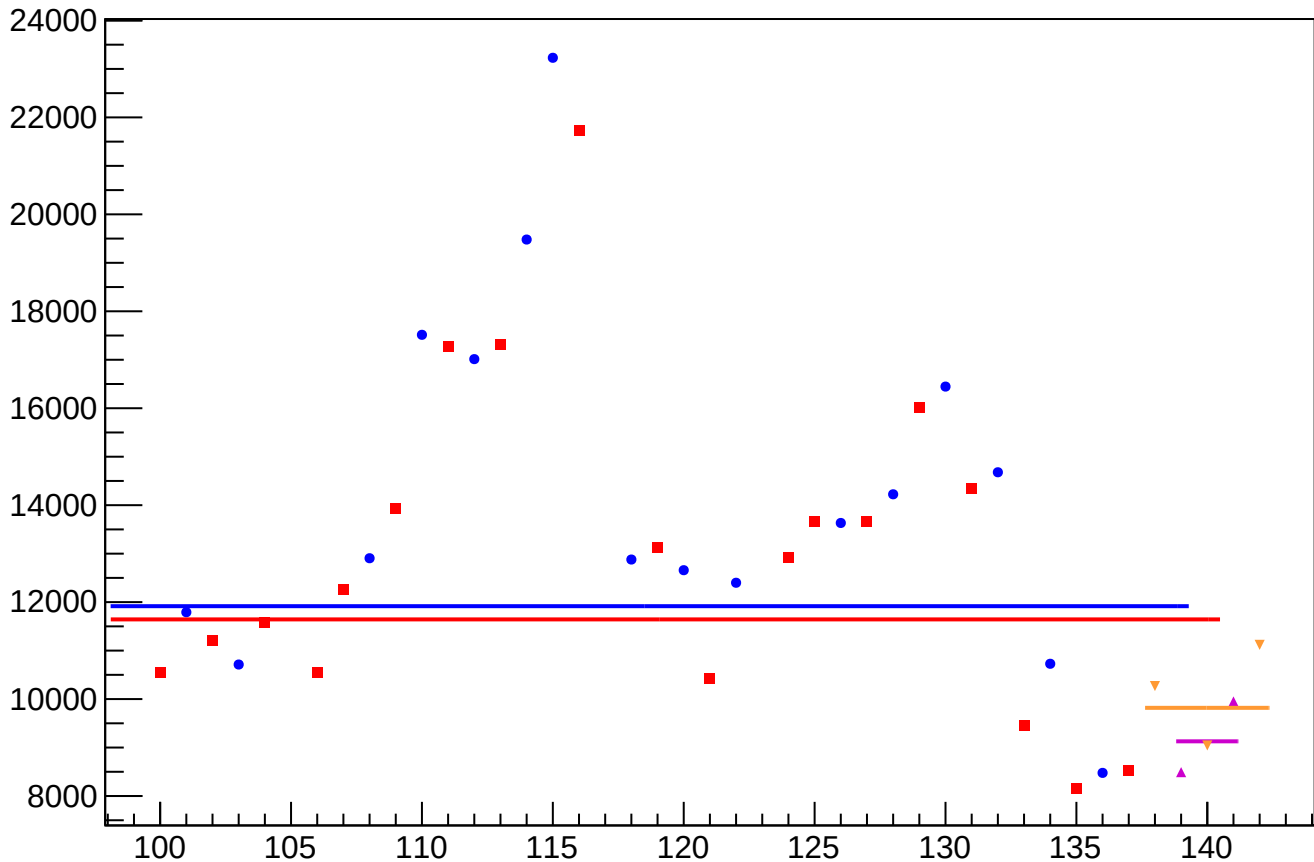
Right: -6.629 ± 3.161 χ^2/NDF : 27.8/34

In: -5.231 ± 3.815 χ^2/NDF : 11.0/17

Out: -5.508 ± 3.701 χ^2/NDF : 21.6/21

All: -5.374 ± 2.656 χ^2/NDF : 32.6/39

diff_bpm4aesumY_rms vs Slug, Sign Corrected



Right In: 11916.355 +/- 3.220 χ^2/NDF : 749775.2/15

Left Out: 9819.158 +/- 4.859 χ^2/NDF : 27351.5/2

Right Out: 11643.622 +/- 3.106 χ^2/NDF : 790359.6/18

Left In: 9128.219 +/- 4.940 χ^2/NDF : 21439.6/1

Left: 9479.421 +/- 3.464 χ^2/NDF : 58734.0/4

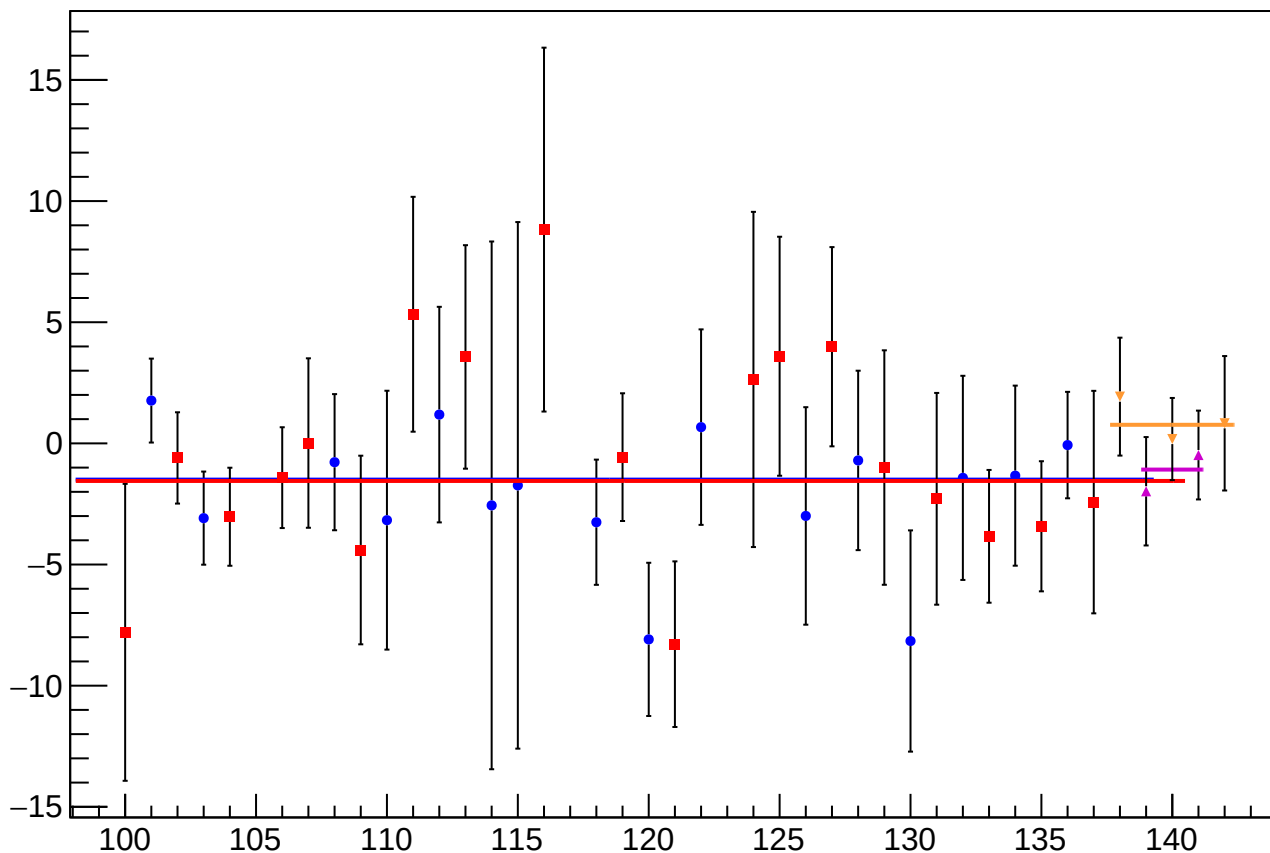
Right: 11775.058 +/- 2.235 χ^2/NDF : 1543851.0/34

In: 11084.950 +/- 2.698 χ^2/NDF : 994757.5/17

Out: 11114.403 +/- 2.617 χ^2/NDF : 917807.4/21

All: 11100.124 +/- 1.878 χ^2/NDF : 1912626.3/33

diff_bpm4aediY_mean vs Slug, Sign Corrected



Right In: -1.496 ± 0.778 χ^2/NDF : 12.6/15

Left Out: 0.767 ± 1.244 χ^2/NDF : 0.3/2

Right Out: -1.551 ± 0.745 χ^2/NDF : 16.3/18

Left In: -1.082 ± 1.418 χ^2/NDF : 0.3/1

Left: -0.037 ± 0.935 χ^2/NDF : 1.6/4

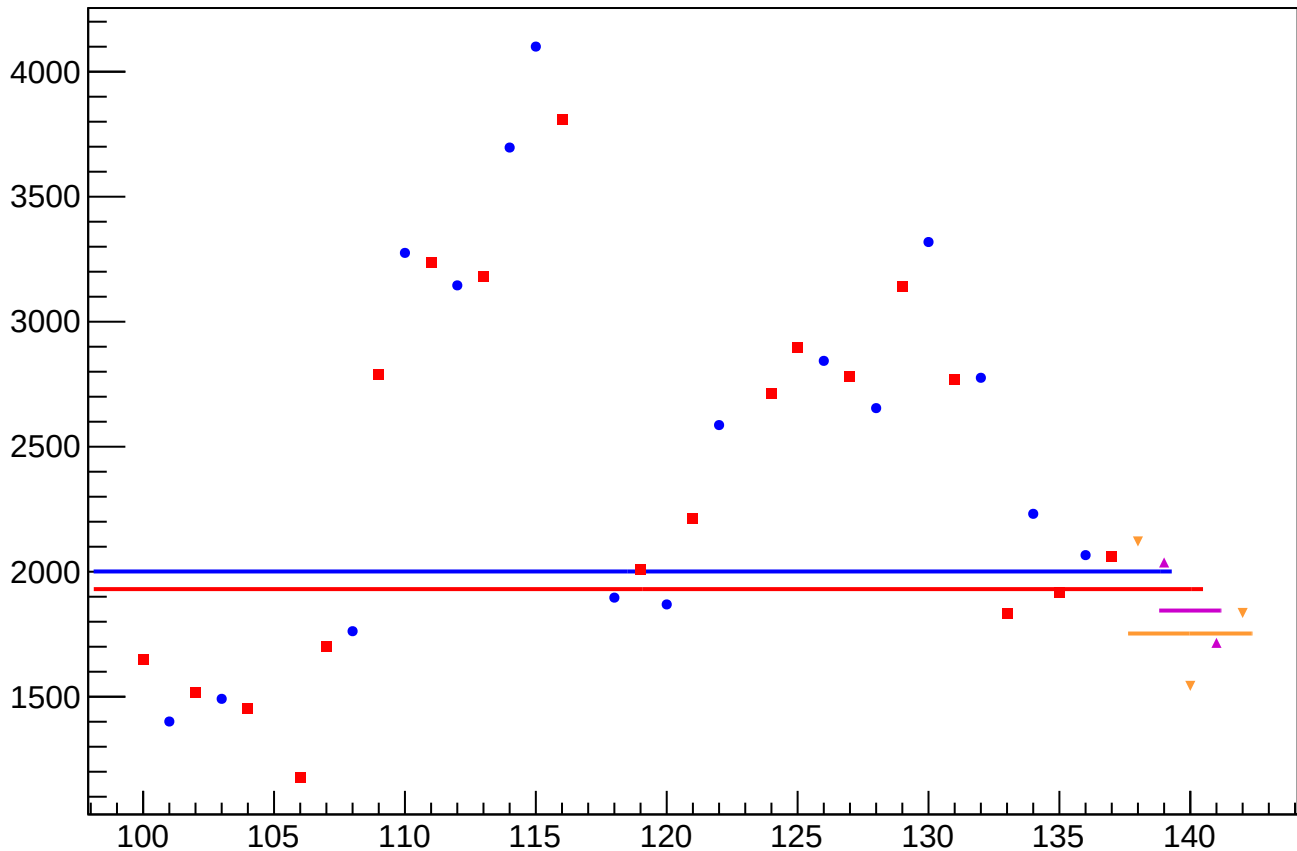
Right: -1.525 ± 0.538 χ^2/NDF : 28.9/34

In: -1.400 ± 0.682 χ^2/NDF : 12.9/17

Out: -0.939 ± 0.639 χ^2/NDF : 19.2/21

All: -1.154 ± 0.466 χ^2/NDF : 32.3/39

diff_bpm4aediffY_rms vs Slug, Sign Corrected



Right In: 2001.000 $\pm$ 0.550 χ^2 /NDF: 1189784.2/15

Left Out: 1752.818 $\pm$ 0.879 χ^2 /NDF: 78055.0/2

Right Out: 1930.434 $\pm$ 0.526 χ^2 /NDF: 1403552.6/18

Left In: 1844.704 $\pm$ 1.003 χ^2 /NDF: 24703.5/1

Left: 1792.770 $\pm$ 0.661 χ^2 /NDF: 107506.3/4

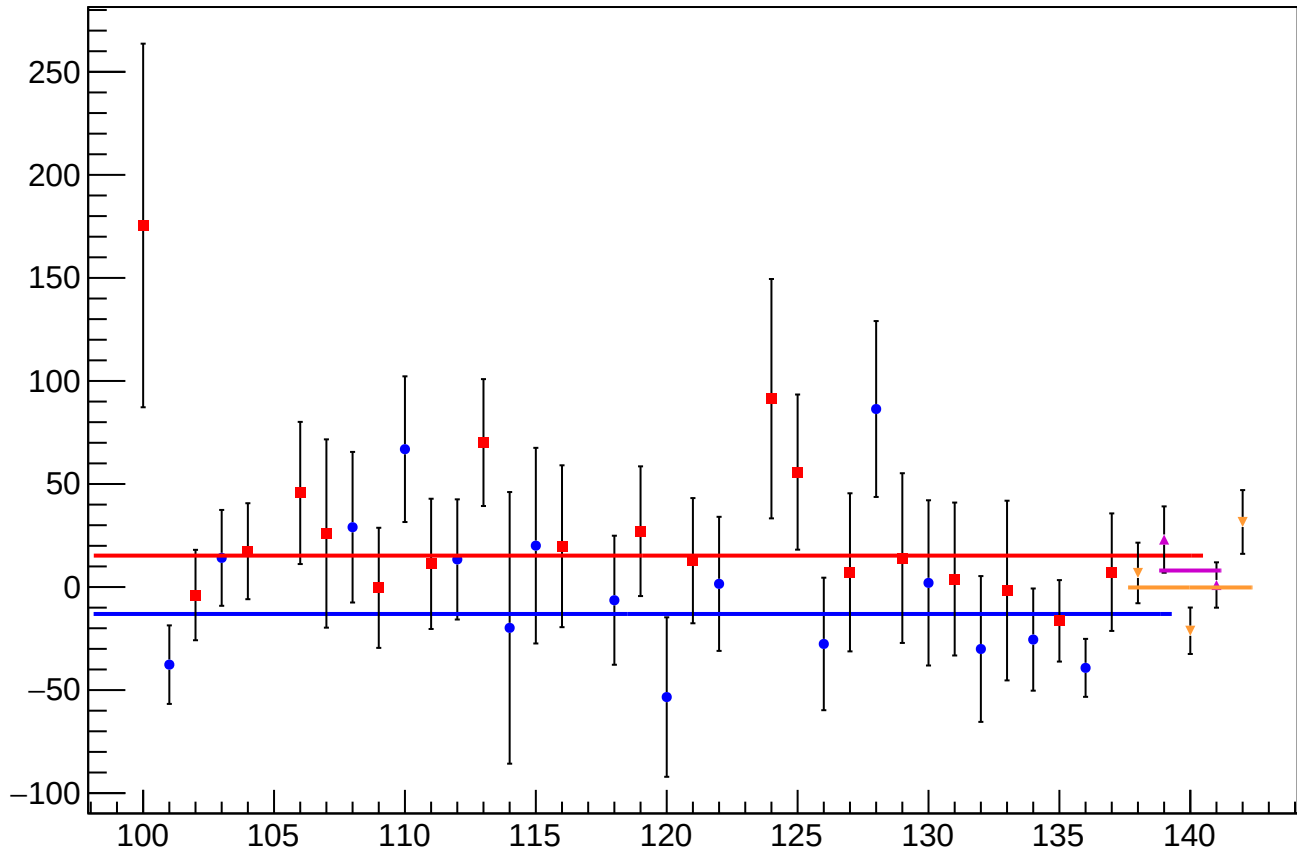
Right: 1964.155 $\pm$ 0.380 χ^2 /NDF: 2601922.6/34

In: 1964.812 $\pm$ 0.482 χ^2 /NDF: 1233164.9/17

Out: 1883.567 $\pm$ 0.452 χ^2 /NDF: 1511642.1/21

All: 1921.521 $\pm$ 0.330 χ^2 /NDF: 2759920.7/39

diff_bpmtargetsumX_mean vs Slug, Sign Corrected



Right In: -13.066 $\pm$ 7.026 χ^2/NDF : 21.9/15

Left Out: -0.205 $\pm$ 7.741 χ^2/NDF : 7.9/2

Right Out: 15.253 $\pm$ 7.321 χ^2/NDF : 14.3/18

Left In: 8.017 $\pm$ 9.085 χ^2/NDF : 1.3/1

Left: 3.254 $\pm$ 5.892 χ^2/NDF : 9.7/4

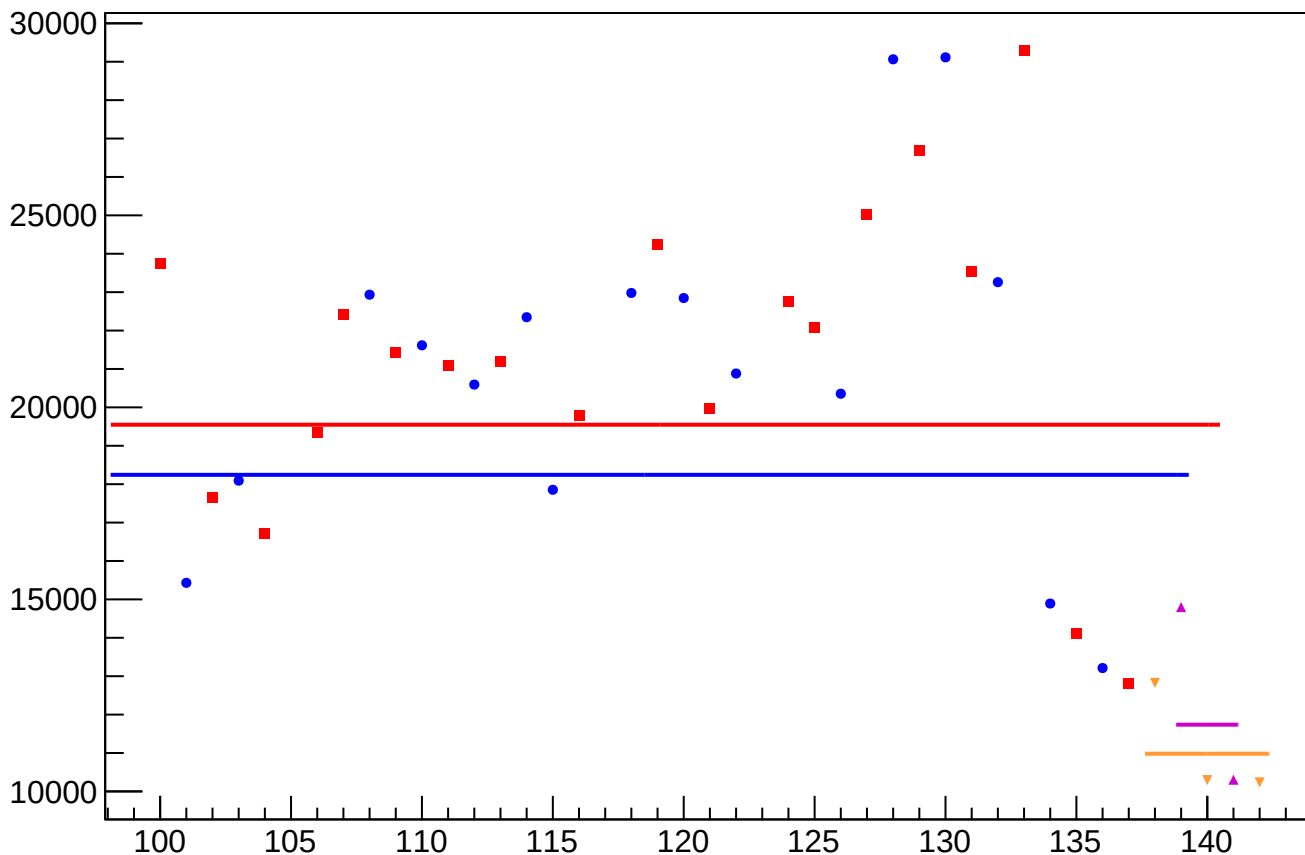
Right: 0.513 $\pm$ 5.069 χ^2/NDF : 44.0/34

In: -5.175 $\pm$ 5.558 χ^2/NDF : 26.5/17

Out: 7.955 $\pm$ 5.319 χ^2/NDF : 24.4/21

All: 1.679 $\pm$ 3.843 χ^2/NDF : 53.8/39

diff_bpmtargetsumX_rms vs Slug, Sign Corrected



Right In: 18243.342+/-4.968

χ^2/NDF : 819828.6/15

Left Out: 10981.569+/-5.474

χ^2/NDF : 43608.4/2

Right Out: 19548.426+/-5.176

χ^2/NDF : 621716.4/18

Left In: 11737.753+/-6.424

χ^2/NDF : 106320.2/1

Left: 11299.645+/-4.166 χ^2/NDF : 157956.8/4

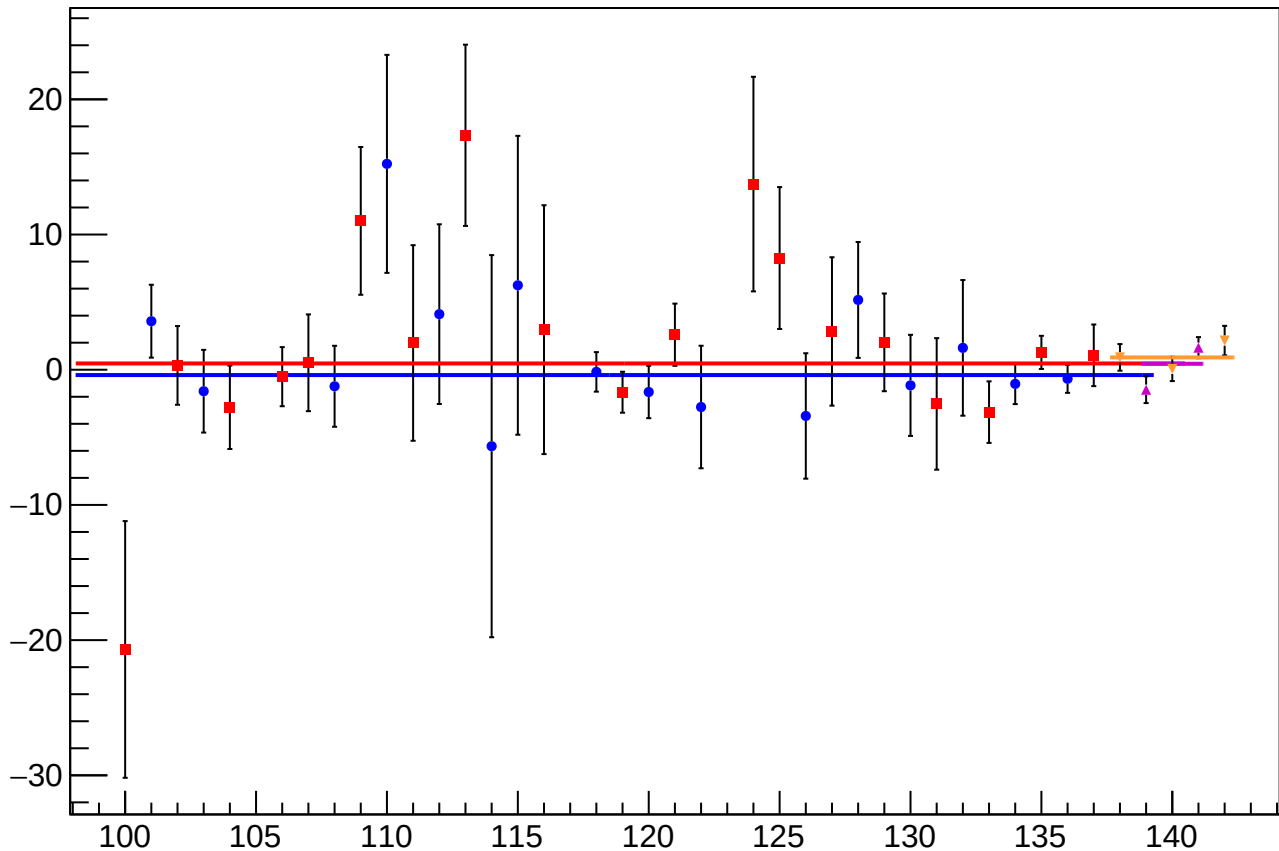
Right: 18869.124+/-3.585 χ^2/NDF : 1474629.7/34

In: 15808.335+/-3.930 χ^2/NDF : 1567880.1/17

Out: 15503.771+/-3.761 χ^2/NDF : 1958420.0/21

All: 15649.359+/-2.717 χ^2/NDF : 3529434.8/3

diff_bpmtargetdiffX_mean vs Slug, Sign Corrected



Right In: -0.394 ± 0.600 χ^2/NDF : 10.4/15

Left Out: 0.910 ± 0.568 χ^2/NDF : 2.2/2

Right Out: 0.464 ± 0.634 χ^2/NDF : 28.0/18

Left In: 0.440 ± 0.613 χ^2/NDF : 6.1/1

Left: 0.693 ± 0.417 χ^2/NDF : 8.6/4

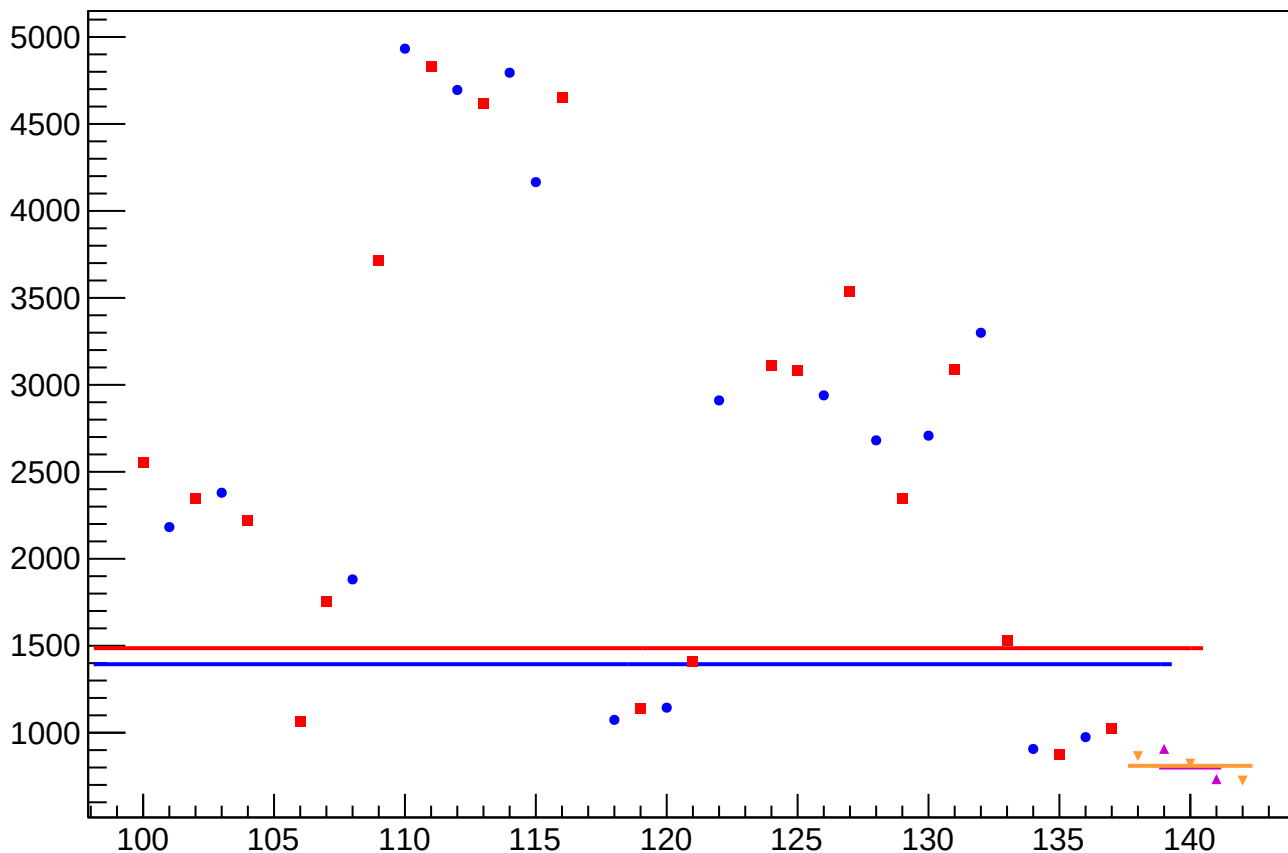
Right: 0.011 ± 0.436 χ^2/NDF : 39.4/34

In: 0.014 ± 0.429 χ^2/NDF : 17.4/17

Out: 0.712 ± 0.423 χ^2/NDF : 30.5/21

All: 0.368 ± 0.301 χ^2/NDF : 49.3/39

diff_bpmtargetdiffX_rms vs Slug, Sign Corrected



Right In: 1393.912+/-0.424 χ^2/NDF : 3381007.0/15

Left Out: 809.703+/-0.401 χ^2/NDF :18821.0/2

Right Out: 1486.000+/-0.448 χ^2/NDF : 3398817.4/18

Left In: 800.004+/-0.434 χ^2/NDF :38021.0/1

Left: 805.228+/-0.295 χ^2/NDF : 57111.5/4

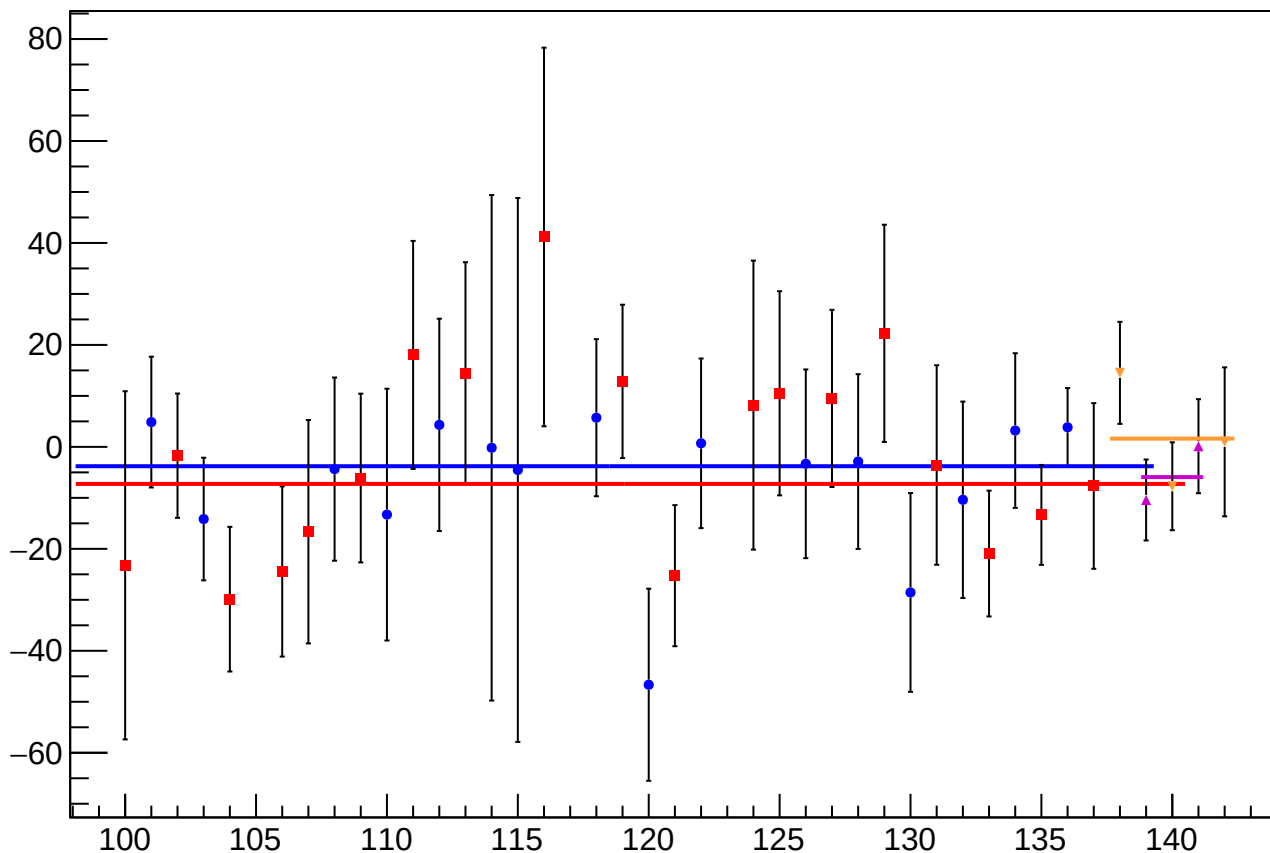
Right: 1437.438+/-0.308 χ^2/NDF : 6802082.3/34

In: 1103.402+/-0.303 χ^2/NDF :4377137.3/17

Out: 1110.657+/-0.299 χ^2/NDF :4681054.7/21

All: 1107.081+/-0.213 χ^2/NDF : 9058482.2/39

diff_bpmtargetsumY_mean vs Slug, Sign Corrected



Right In: -3.795 ± 3.943 $\chi^2/\text{NDF}: 10.1/15$

Left Out: 1.625 ± 5.964 $\chi^2/\text{NDF}: 2.8/2$

Right Out: -7.264 ± 3.807 $\chi^2/\text{NDF}: 17.3/18$

Left In: -5.926 ± 6.017 $\chi^2/\text{NDF}: 0.8/1$

Left: -2.118 ± 4.236 $\chi^2/\text{NDF}: 4.4/4$

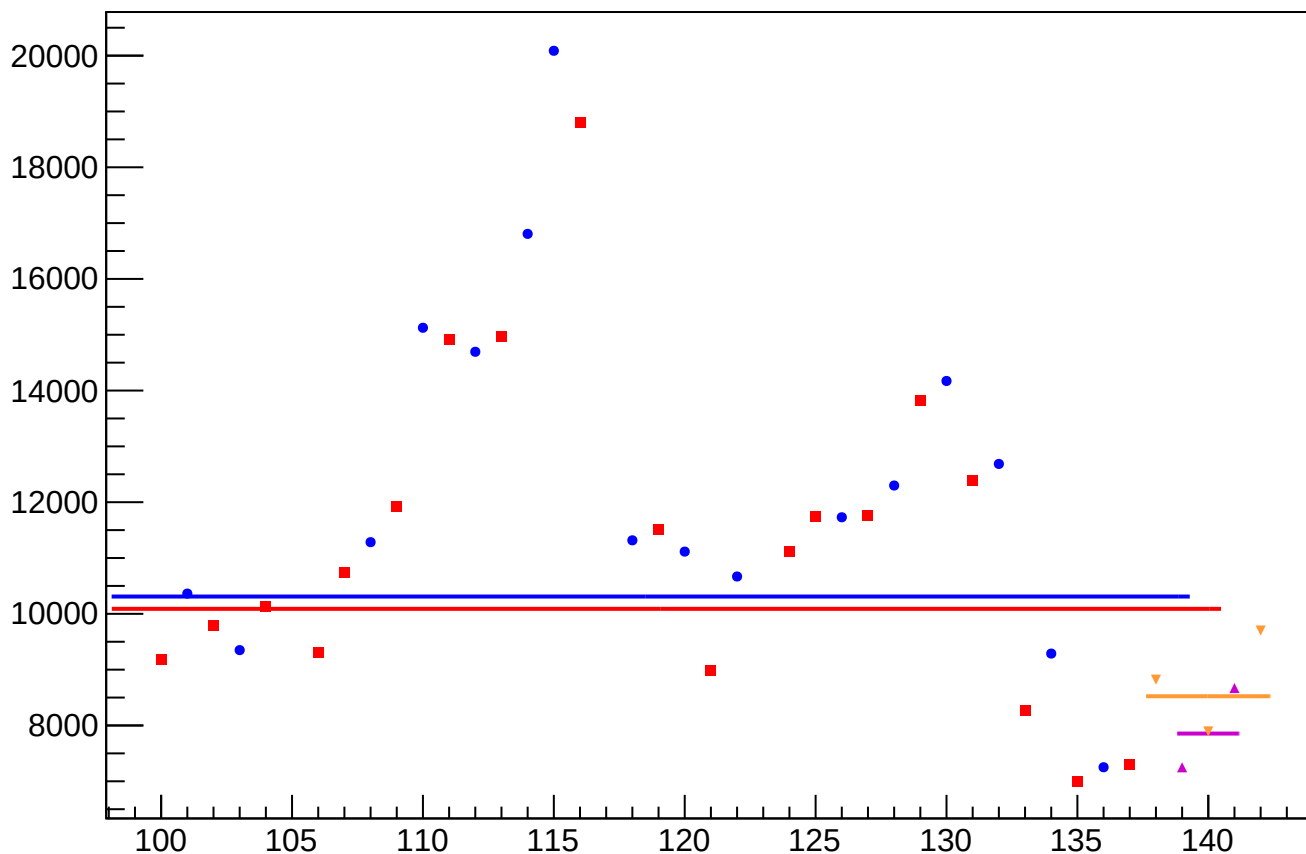
Right: -5.590 ± 2.739 $\chi^2/\text{NDF}: 27.7/34$

In: -4.435 ± 3.298 $\chi^2/\text{NDF}: 10.9/17$

Out: -4.691 ± 3.209 $\chi^2/\text{NDF}: 21.7/21$

All: -4.566 ± 2.300 $\chi^2/\text{NDF}: 32.6/39$

diff_bpmtargetsumY_rms vs Slug, Sign Corrected



Right In: 10309.969+/-2.788 χ^2/NDF : 770518.2/15

Left Out: 8523.641+/-4.217 χ^2/NDF : 25432.8/2

Right Out: 10089.584+/-2.692 χ^2/NDF : 792788.1/18

Left In: 7855.116+/-4.254 χ^2/NDF : 27243.2/1

Left: 8192.289+/-2.995 χ^2/NDF : 65129.8/4

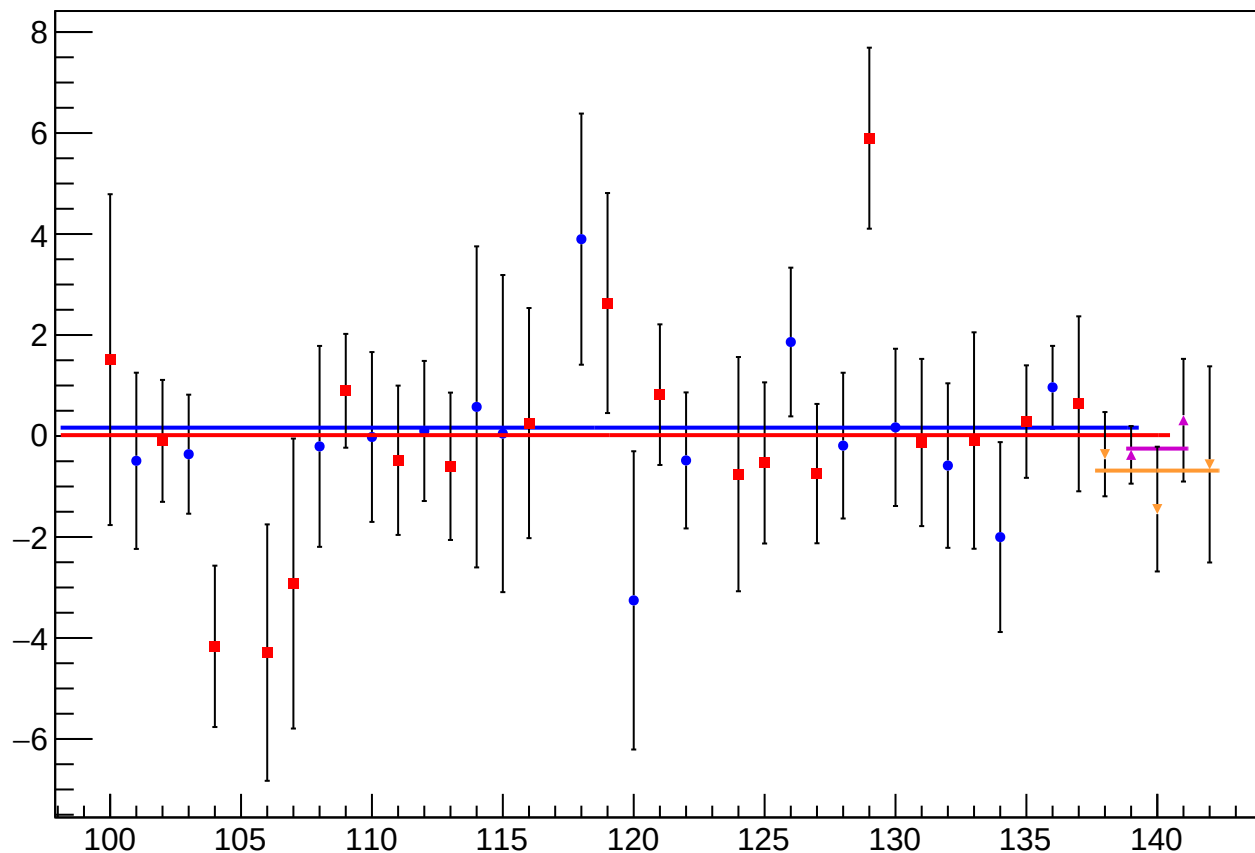
Right: 10195.906+/-1.937 χ^2/NDF : 1566539.8/34

In: 9572.383+/-2.332 χ^2/NDF : 1030674.6/17

Out: 9636.292+/-2.269 χ^2/NDF : 916176.6/21

All: 9605.211+/-1.626 χ^2/NDF : 1947237.0/39

diff_bpmtargetdiffY_mean vs Slug, Sign Corrected



Right In: 0.165 ± 0.386 $\chi^2/\text{NDF}: 8.1/15$

Left Out: -0.685 ± 0.651 $\chi^2/\text{NDF}: 0.5/2$

Right Out: 0.017 ± 0.372 $\chi^2/\text{NDF}: 25.2/18$

Left In: -0.249 ± 0.516 $\chi^2/\text{NDF}: 0.3/1$

Left: -0.417 ± 0.405 $\chi^2/\text{NDF}: 1.1/4$

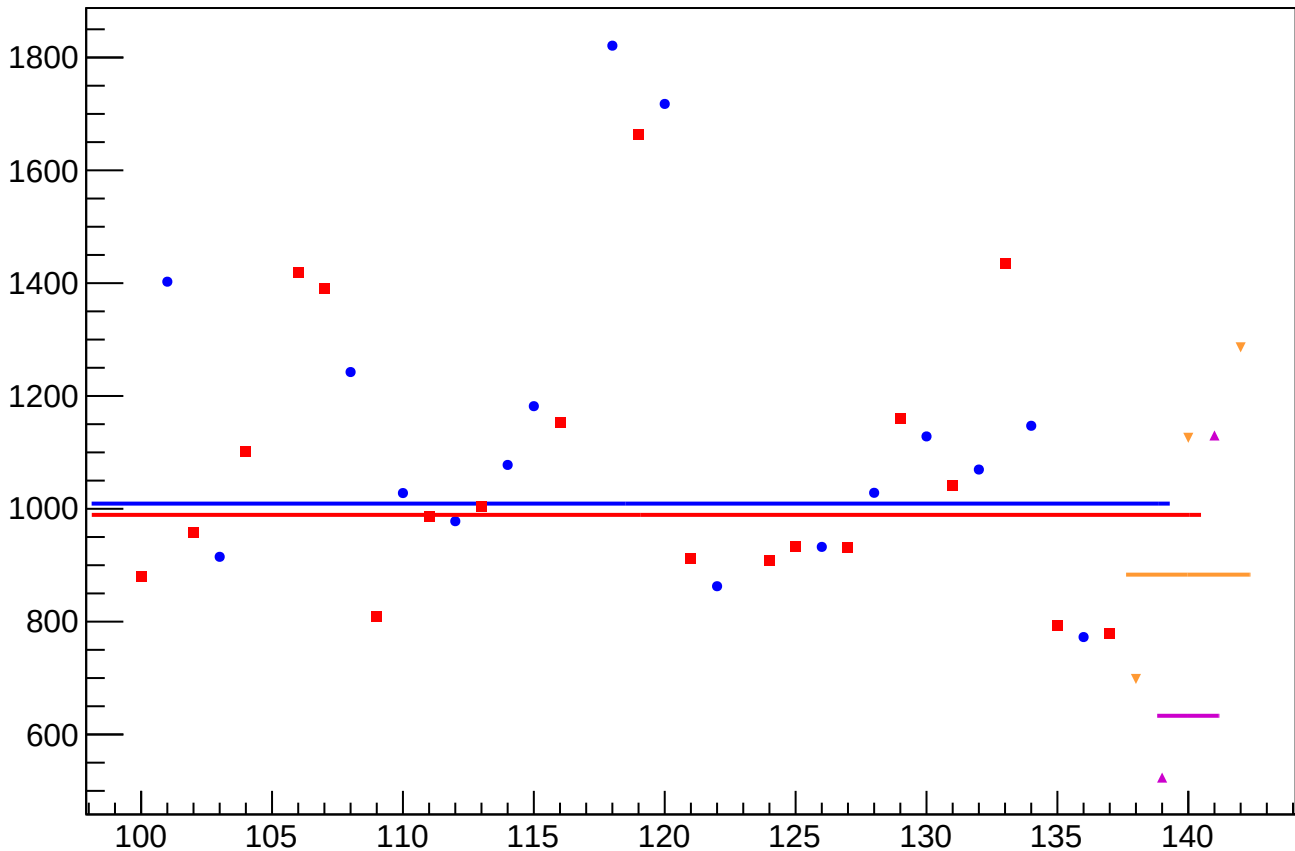
Right: 0.089 ± 0.268 $\chi^2/\text{NDF}: 33.4/34$

In: 0.017 ± 0.309 $\chi^2/\text{NDF}: 8.8/17$

Out: -0.156 ± 0.323 $\chi^2/\text{NDF}: 26.6/21$

All: -0.066 ± 0.223 $\chi^2/\text{NDF}: 35.5/39$

diff_bpmtargetdiffY_rms vs Slug, Sign Corrected



Right In: 1009.222 ± 0.273 $\chi^2/\text{NDF}: 699303.9/15$

Left Out: 883.305 ± 0.461 $\chi^2/\text{NDF}: 261431.2/2$

Right Out: 989.246 ± 0.263 $\chi^2/\text{NDF}: 575759.9/18$

Left In: 633.119 ± 0.365 $\chi^2/\text{NDF}: 408474.3/1$

Left: 729.643 ± 0.286 $\chi^2/\text{NDF}: 851140.3/4$

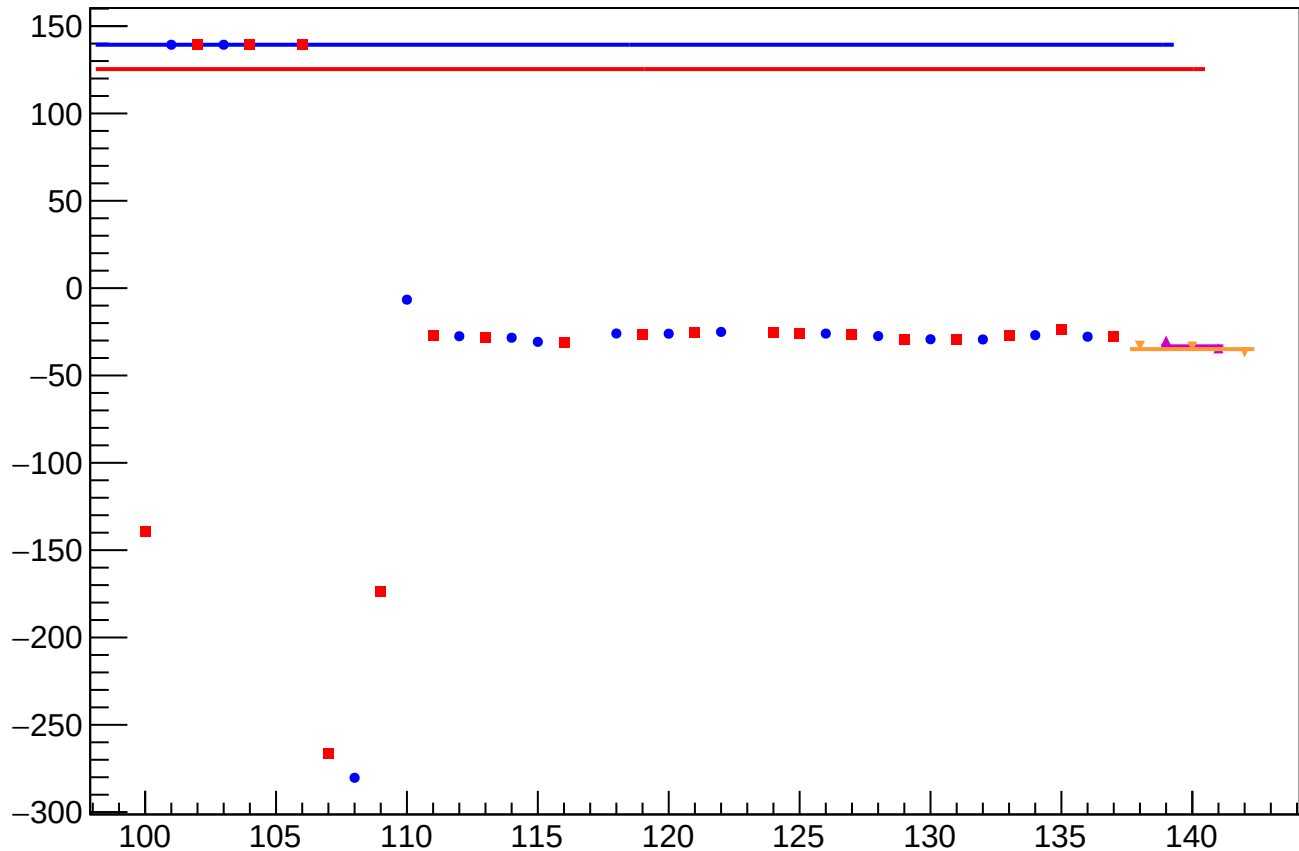
Right: 998.863 ± 0.190 $\chi^2/\text{NDF}: 1277836.8/34$

In: 874.212 ± 0.219 $\chi^2/\text{NDF}: 1788282.2/17$

Out: 963.165 ± 0.229 $\chi^2/\text{NDF}: 877075.4/21$

All: 916.737 ± 0.158 $\chi^2/\text{NDF}: 2744441.2/39$

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 139.337 $\pm$ 0.000 χ^2 /NDF: 47088045550.1/15

Left Out: -34.900 $\pm$ 0.001 χ^2 /NDF: 2234149.4/2

Right Out: 125.392 $\pm$ 0.000 χ^2 /NDF: 774173119844052.5/18

Left In: -33.317 $\pm$ 0.002 χ^2 /NDF: 1553538.4/1

Left: -34.337 $\pm$ 0.001 χ^2 /NDF: 4447839.5/4

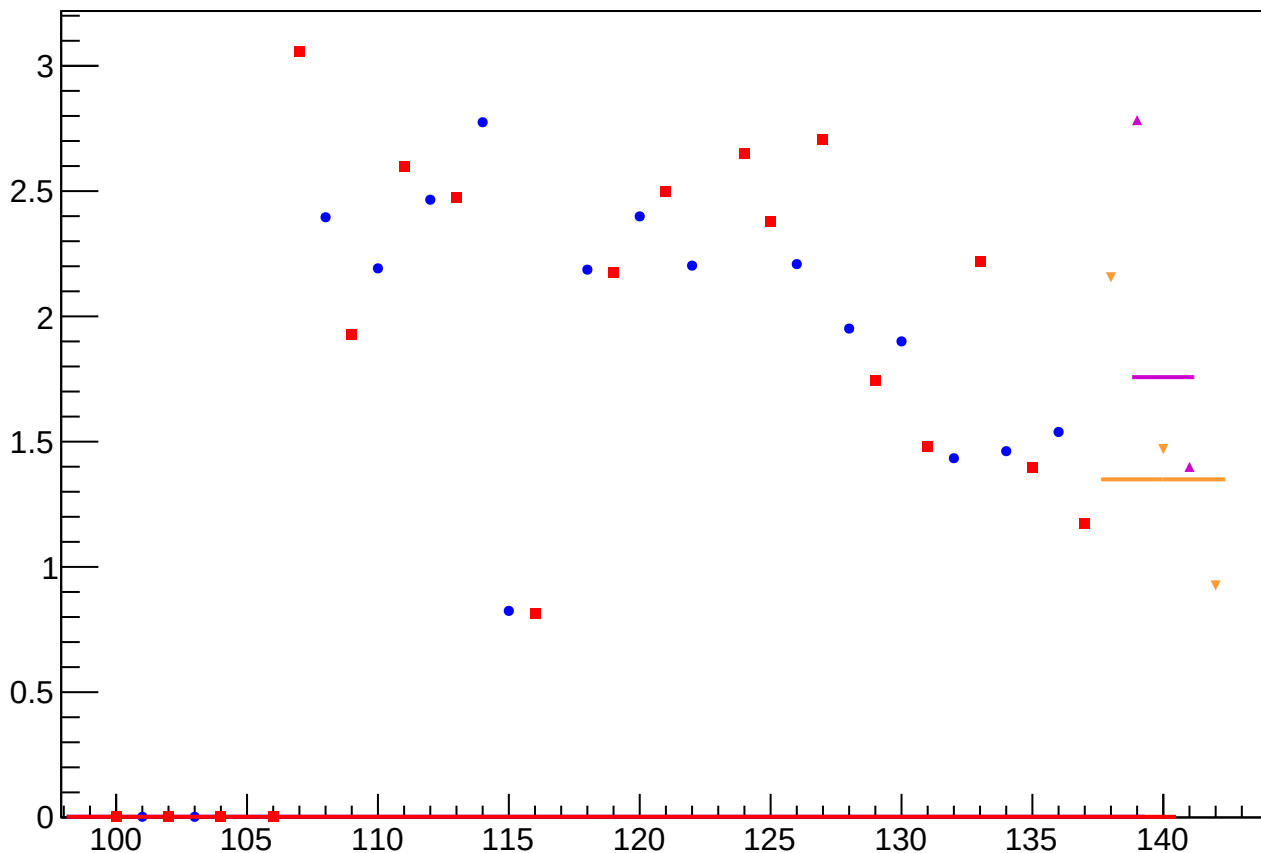
Right: 131.818 $\pm$ 0.000 χ^2 /NDF: 793004999492497

In: 139.336 $\pm$ 0.000 χ^2 /NDF: 59283783211.7/17

Out: 125.391 $\pm$ 0.000 χ^2 /NDF: 774192177710629.

All: 131.818 $\pm$ 0.000 χ^2 /NDF: 793036772780

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2/NDF : 9565657.6/15

Left Out: 1.349 $\pm$ 0.001 χ^2/NDF : 315105.7/2

Right Out: 0.003 $\pm$ 0.000 χ^2/NDF : 9733783.1/18

Left In: 1.757 $\pm$ 0.001 χ^2/NDF : 300579.9/1

Left: 1.494 $\pm$ 0.001 χ^2/NDF : 703483.4/4

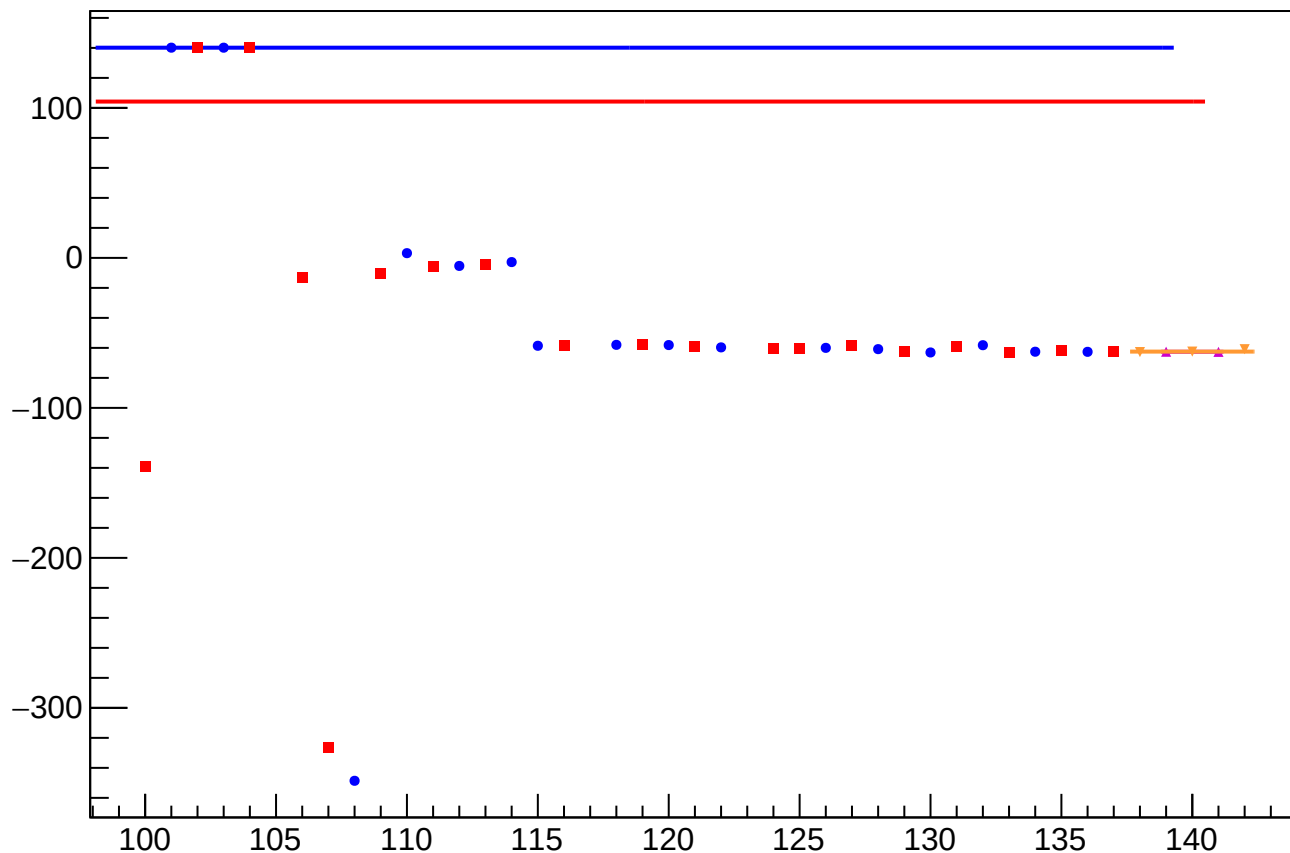
Right: 0.003 $\pm$ 0.000 χ^2/NDF : 19299624.2/34

In: 0.003 $\pm$ 0.000 χ^2/NDF : 12385481.6/17

Out: 0.003 $\pm$ 0.000 χ^2/NDF : 12739243.2/21

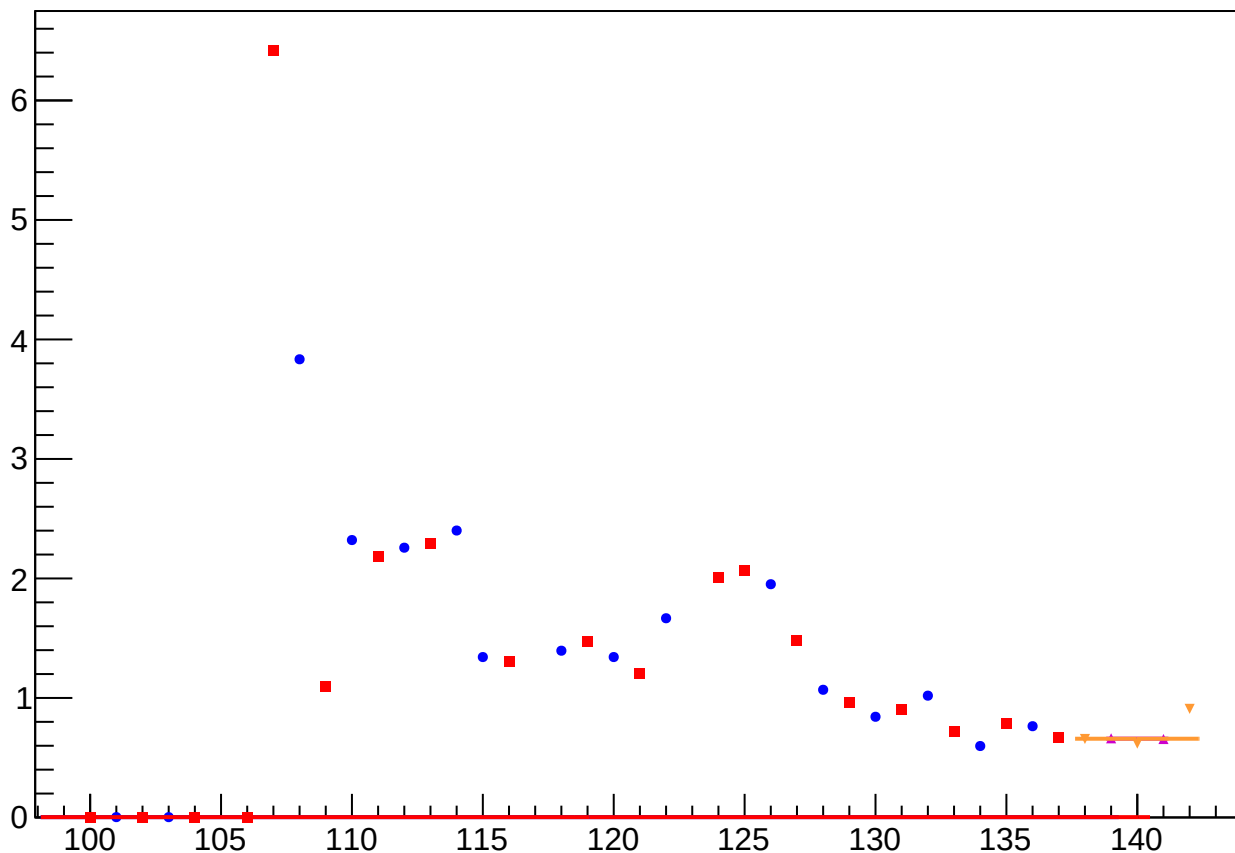
All: 0.003 $\pm$ 0.000 χ^2/NDF : 25124899.3/39

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 140.143+/-0.000	χ^2/NDF : 187461723281.9/15	Left: -62.535+/-0.000	χ^2/NDF : 1138386.0/4
Left Out: -62.475+/-0.000	χ^2/NDF : 1097216.2/2	Right: 120.832+/-0.000	χ^2/NDF : 138089570604348
Right Out: 104.224+/-0.000	χ^2/NDF : 12574018825779.0/18	In: 140.139+/-0.000	χ^2/NDF : 345237941132.2/17
Left In: -62.601+/-0.001	χ^2/NDF : 9656.7/1	Out: 104.221+/-0.000	χ^2/NDF : 1257518054443119
		All: 120.828+/-0.000	χ^2/NDF : 138116532816

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 10578723.1/15

Left Out: 0.659+/-0.000 χ^2/NDF :51747.4/2

Right Out: 0.003+/-0.000 χ^2/NDF : 10266772.6/18

Left In: 0.659+/-0.000 χ^2/NDF :66.4/1

Left: 0.659+/-0.000 χ^2/NDF : 51815.0/4

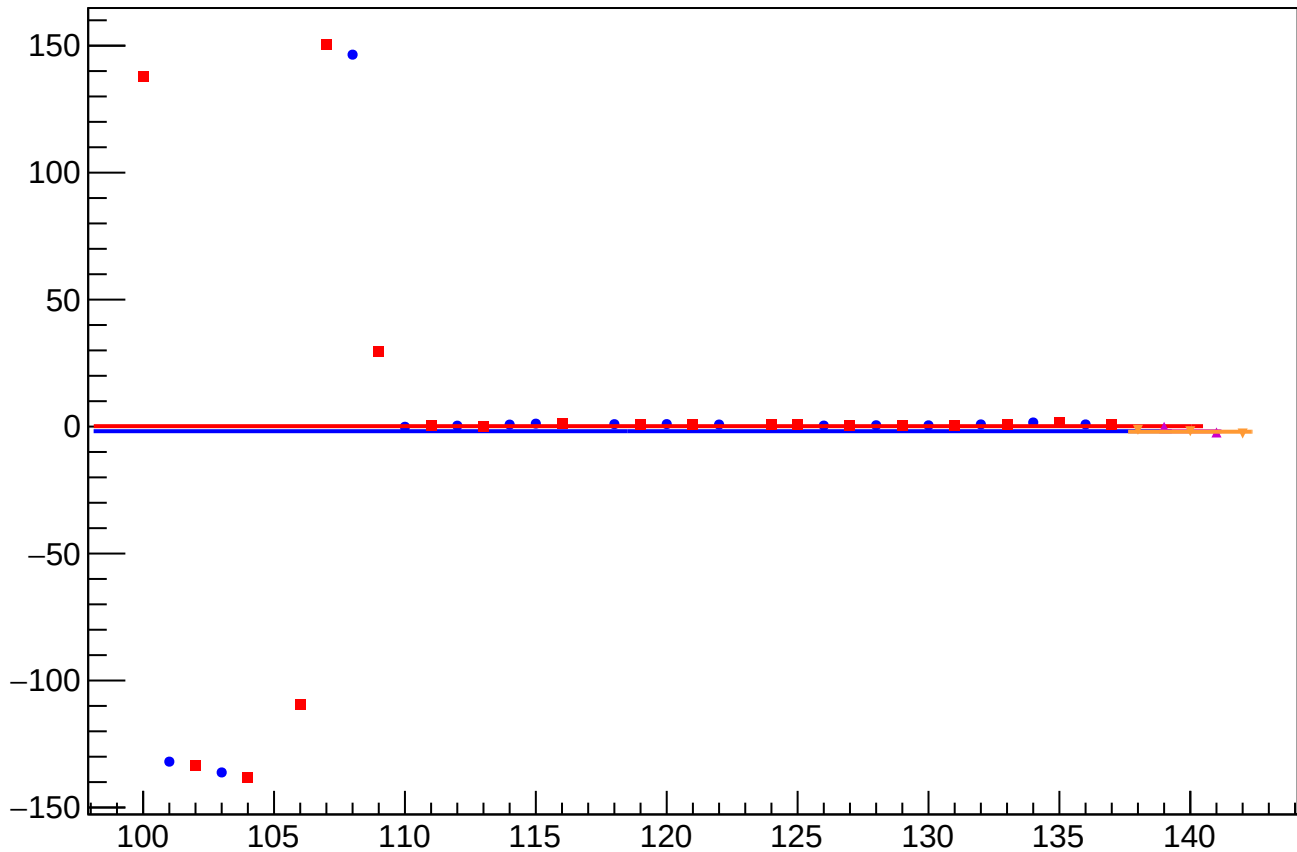
Right: 0.003+/-0.000 χ^2/NDF : 20845702.5/34

In: 0.003+/-0.000 χ^2/NDF :13888997.5/17

Out: 0.003+/-0.000 χ^2/NDF :13918179.9/21

All: 0.003+/-0.000 χ^2/NDF : 27807395.8/39

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -1.818+/-0.000 χ^2/NDF : 9887177310.2/15

Left Out: -2.016+/-0.000 χ^2/NDF : 1493605.2/2

Right Out: 0.165+/-0.000 χ^2/NDF : 3611245020.0/18

Left In: -1.859+/-0.001 χ^2/NDF : 2782979.1/1

Left: -1.954+/-0.000 χ^2/NDF : 4329585.0/4

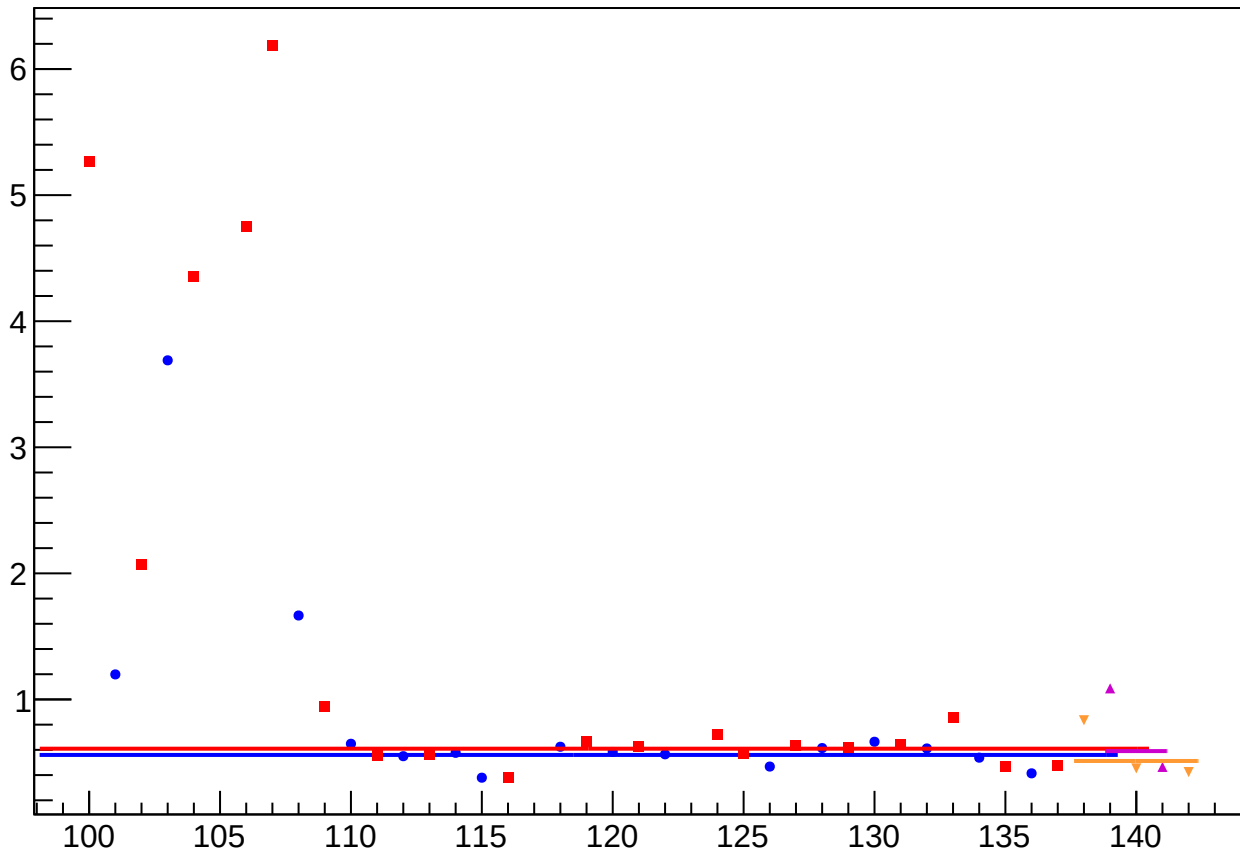
Right: -0.919+/-0.000 χ^2/NDF : 13527173630.8/34

In: -1.825+/-0.000 χ^2/NDF : 9889965098.3/17

Out: -0.461+/-0.000 χ^2/NDF : 3630997193.0/21

All: -1.159+/-0.000 χ^2/NDF : 13538834566.2/4

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.560+/-0.000 χ^2/NDF : 1598439.5/15

Left Out: 0.512+/-0.000 χ^2/NDF : 244366.4/2

Right Out: 0.609+/-0.000 χ^2/NDF : 2476010.3/18

Left In: 0.590+/-0.000 χ^2/NDF : 440322.9/1

Left: 0.543+/-0.000 χ^2/NDF : 710901.2/4

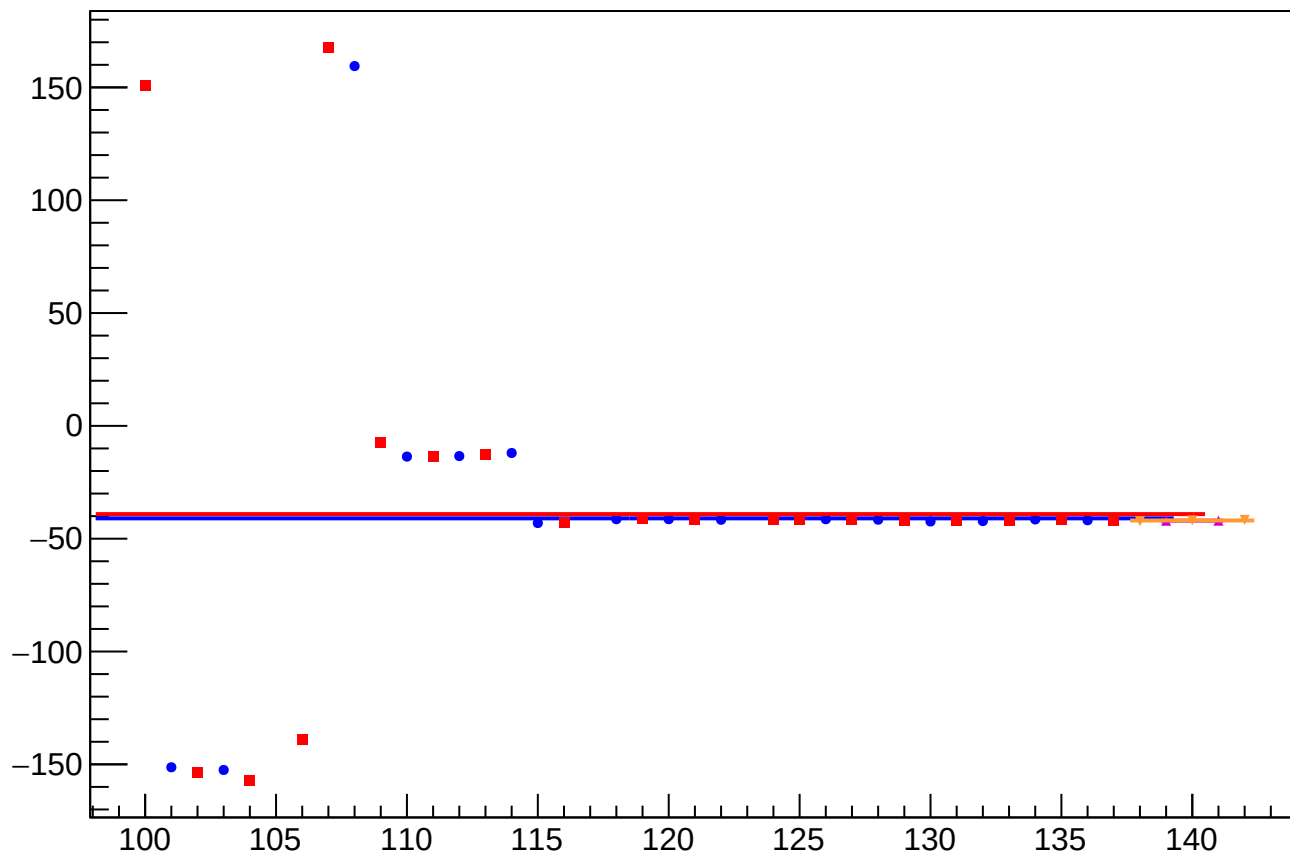
Right: 0.582+/-0.000 χ^2/NDF : 4110324.4/34

In: 0.565+/-0.000 χ^2/NDF : 2044139.7/17

Out: 0.581+/-0.000 χ^2/NDF : 2793309.0/21

All: 0.573+/-0.000 χ^2/NDF : 4842424.9/39

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -40.987+/-0.000

χ^2/NDF : 3449622021.8/15

Left Out: -41.926+/-0.000

χ^2/NDF : 596911.5/2

Right Out: -39.101+/-0.000

χ^2/NDF : 2480133442.0/18

Left In: -42.017+/-0.000

χ^2/NDF : 349.2/1

Left: -41.964+/-0.000

χ^2/NDF : 632224.3/4

Right: -40.058+/-0.000

χ^2/NDF : 5962079351.2/34

In: -41.282+/-0.000

χ^2/NDF : 3455216547.9/17

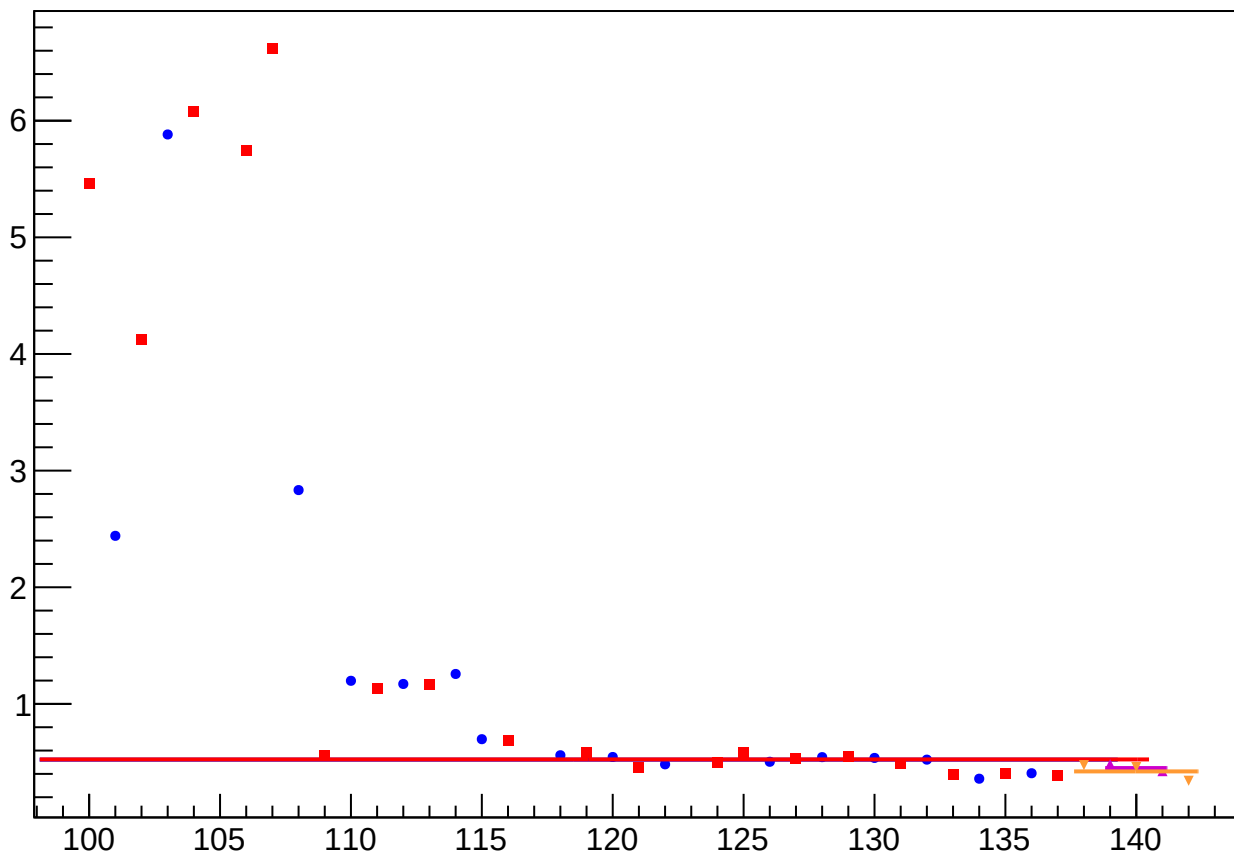
Out: -40.116+/-0.000

χ^2/NDF : 2532071333.5/21

All: -40.676+/-0.000

χ^2/NDF : 6005527100.7/7

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.522+/-0.000 χ^2/NDF : 2949327.6/15

Left Out: 0.421+/-0.000 χ^2/NDF : 73913.0/2

Right Out: 0.524+/-0.000 χ^2/NDF : 3264460.0/18

Left In: 0.450+/-0.000 χ^2/NDF : 13495.8/1

Left: 0.433+/-0.000 χ^2/NDF : 94386.9/4

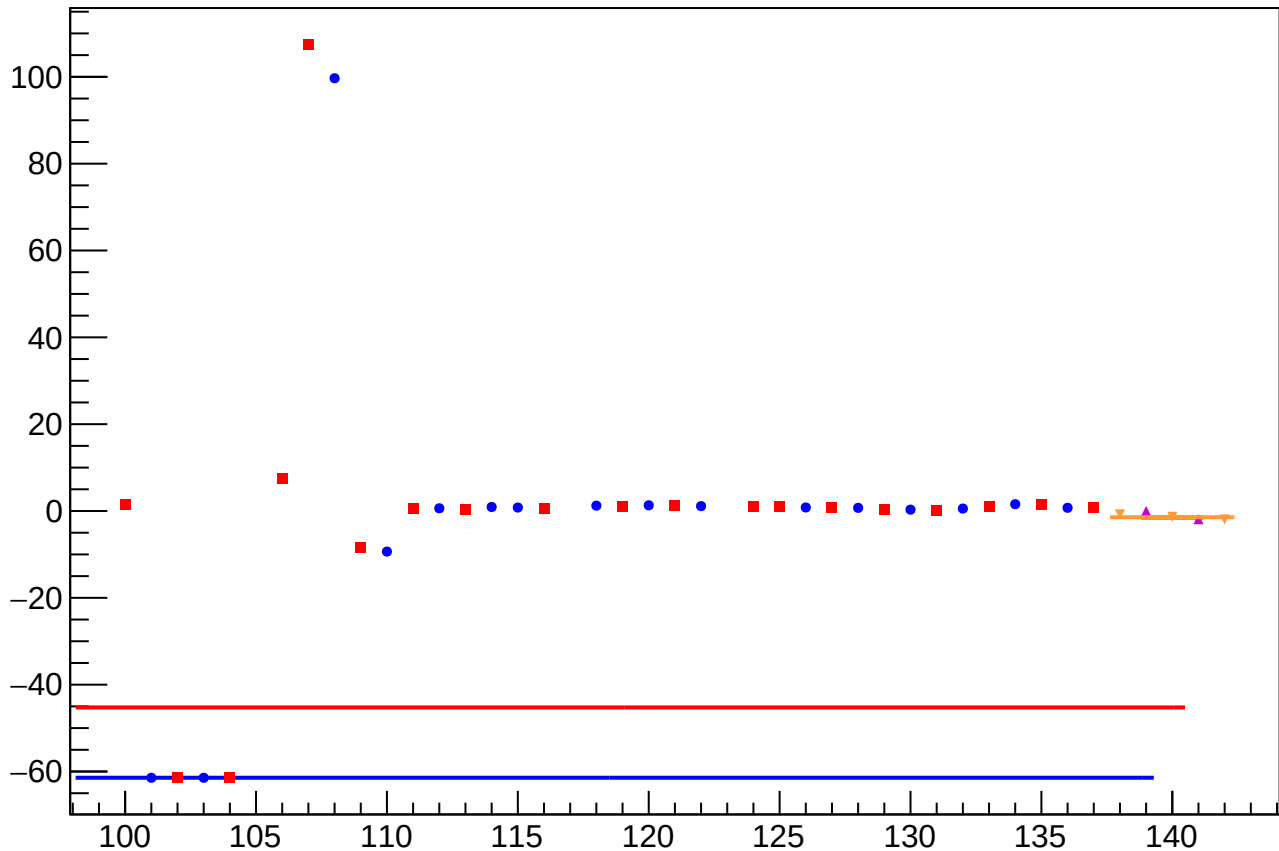
Right: 0.523+/-0.000 χ^2/NDF : 6213857.4/34

In: 0.501+/-0.000 χ^2/NDF : 3017767.5/17

Out: 0.487+/-0.000 χ^2/NDF : 3474141.0/21

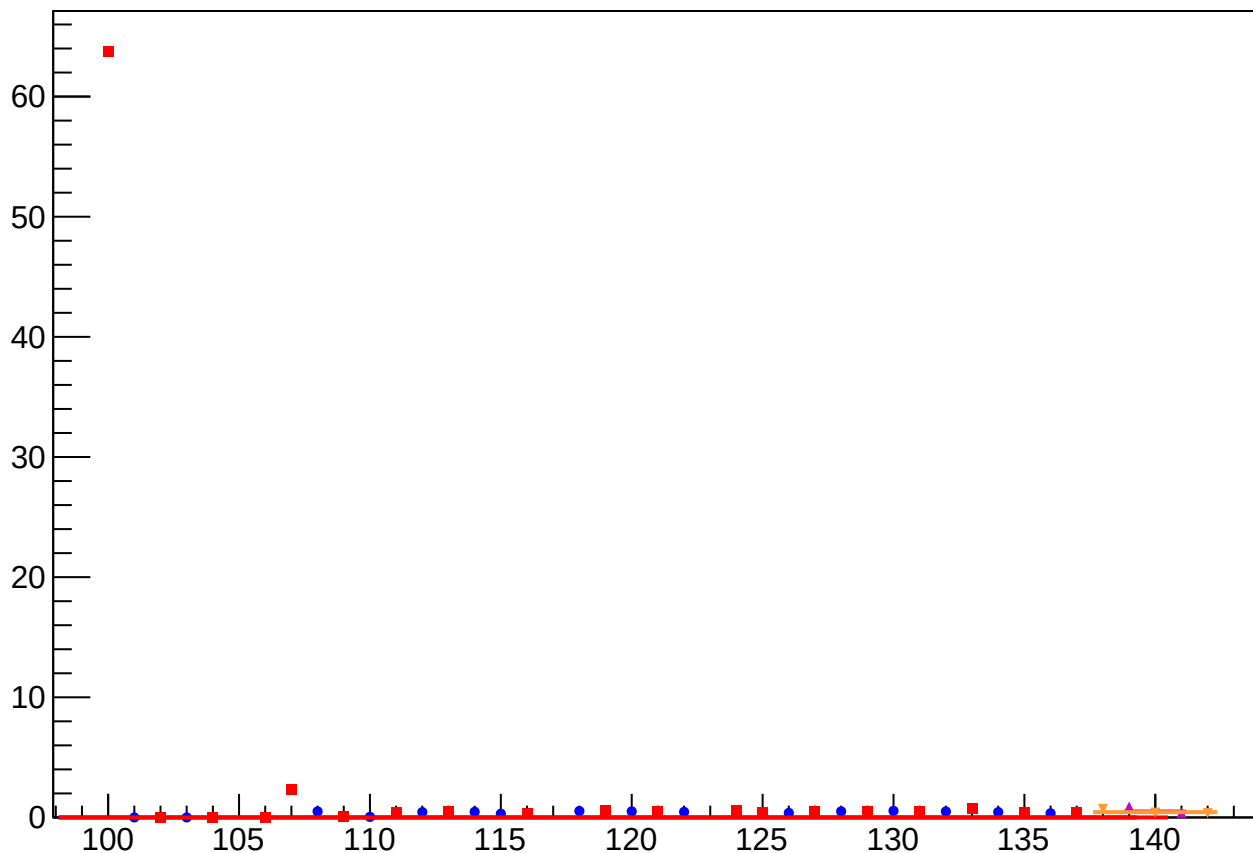
All: 0.494+/-0.000 χ^2/NDF : 6497410.2/39

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -61.436+/-0.000 χ^2/NDF : 273496278670.9/15
 Left Out: -1.437+/-0.000 χ^2/NDF : 1229886.6/2
 Right Out: -45.245+/-0.000 χ^2/NDF : 357870328061478.0/18
 Left In: -1.502+/-0.000 χ^2/NDF : 2891561.6/1
 Left: -1.464+/-0.000 χ^2/NDF : 4133984.8/4
 Right: -52.749+/-0.000 χ^2/NDF : 409121918007227
 In: -61.435+/-0.000 χ^2/NDF : 291580109558.7/17
 Out: -45.244+/-0.000 χ^2/NDF : 357884429832003.8
 All: -52.748+/-0.000 χ^2/NDF : 409154486538

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 9156181.6/15

Left Out: 0.442+/-0.000 χ^2/NDF : 236358.0/2

Right Out: 0.001+/-0.000 χ^2/NDF : 9345109.5/18

Left In: 0.495+/-0.000 χ^2/NDF : 432233.1/1

Left: 0.464+/-0.000 χ^2/NDF : 685540.5/4

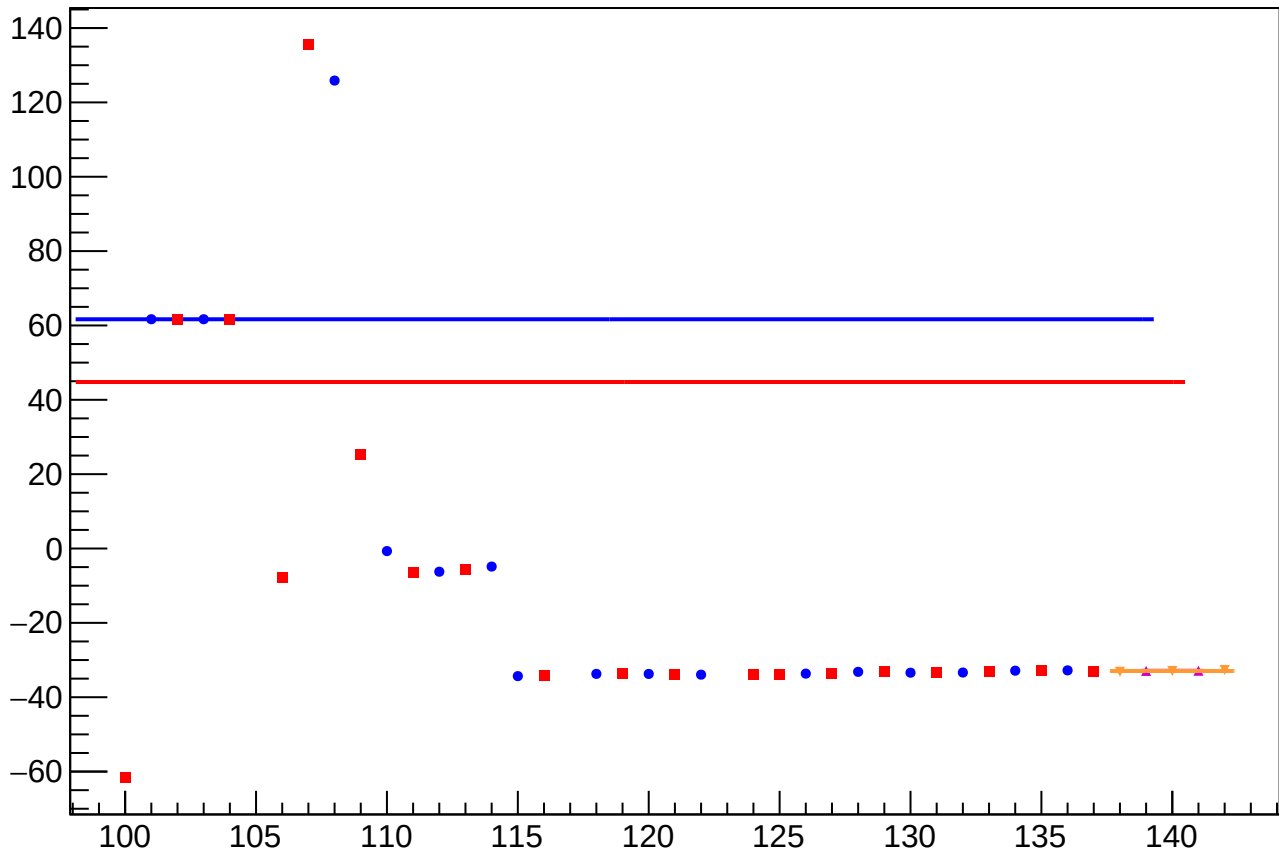
Right: 0.001+/-0.000 χ^2/NDF : 18501293.3/34

In: 0.001+/-0.000 χ^2/NDF : 12042788.3/17

Out: 0.001+/-0.000 χ^2/NDF : 12432862.4/21

All: 0.001+/-0.000 χ^2/NDF : 24475651.6/39

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 61.662+/-0.000

χ^2/NDF : 369463062074.0/15

Left: -32.922+/-0.000

χ^2/NDF : 721161.7/4

Left Out: -32.949+/-0.000

χ^2/NDF : 677563.0/2

Right: 52.689+/-0.000

χ^2/NDF : 417568081486015.0

Right Out: 44.786+/-0.000

χ^2/NDF : 366094778229951.8/18

In: 61.657+/-0.000

χ^2/NDF : 530633519387.2/17

Out: 44.781+/-0.000

χ^2/NDF : 366219040396204.5

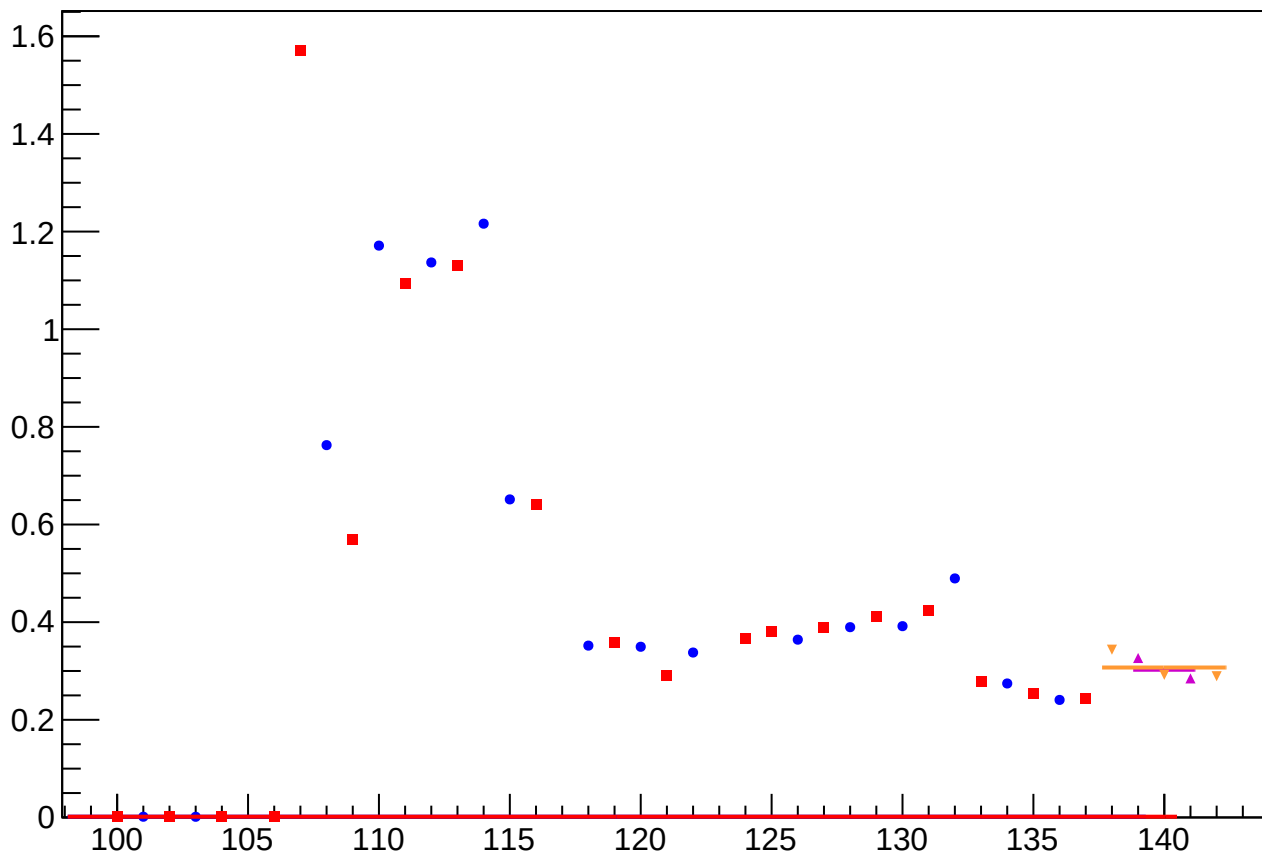
Left In: -32.891+/-0.000

χ^2/NDF : 11084.3/1

All: 52.684+/-0.000

χ^2/NDF : 4178509252551.0

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 11024564.1/15

Left Out: 0.307+/-0.000 χ^2/NDF :24138.3/2

Right Out: 0.002+/-0.000 χ^2/NDF : 10559220.1/18

Left In: 0.303+/-0.000 χ^2/NDF :15401.5/1

Left: 0.305+/-0.000 χ^2/NDF : 39940.4/4

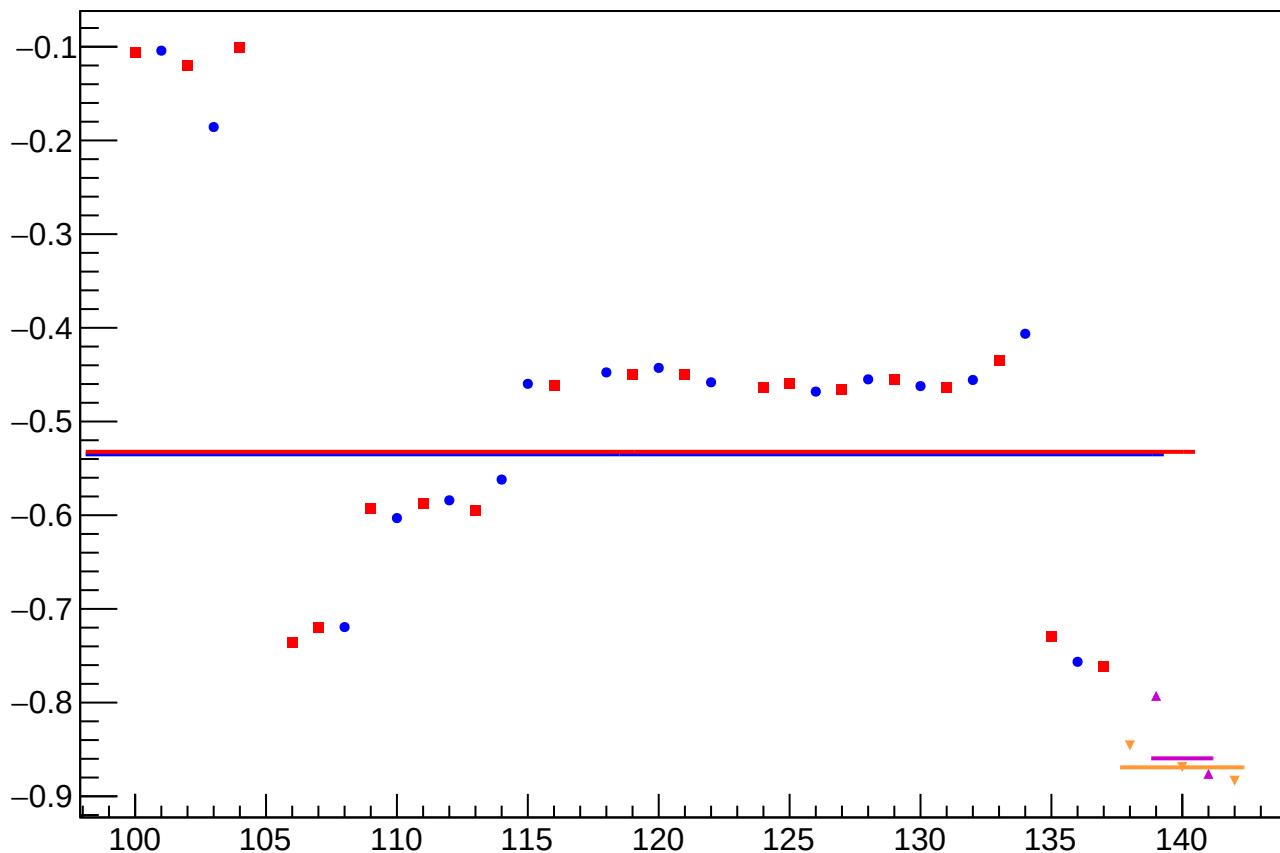
Right: 0.002+/-0.000 χ^2/NDF : 21583912.3/34

In: 0.002+/-0.000 χ^2/NDF :14306899.3/17

Out: 0.002+/-0.000 χ^2/NDF :14423392.0/21

All: 0.002+/-0.000 χ^2/NDF : 28730423.7/39

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.535 $\pm$ 0.000 χ^2 /NDF: 300846309.5/15

Left Out: -0.869 $\pm$ 0.000 χ^2 /NDF: 666132.4/2

Right Out: -0.532 $\pm$ 0.000 χ^2 /NDF: 214124648.5/18

Left In: -0.860 $\pm$ 0.000 χ^2 /NDF: 2889585.6/1

Left: -0.865 $\pm$ 0.000 χ^2 /NDF: 3702861.7/4

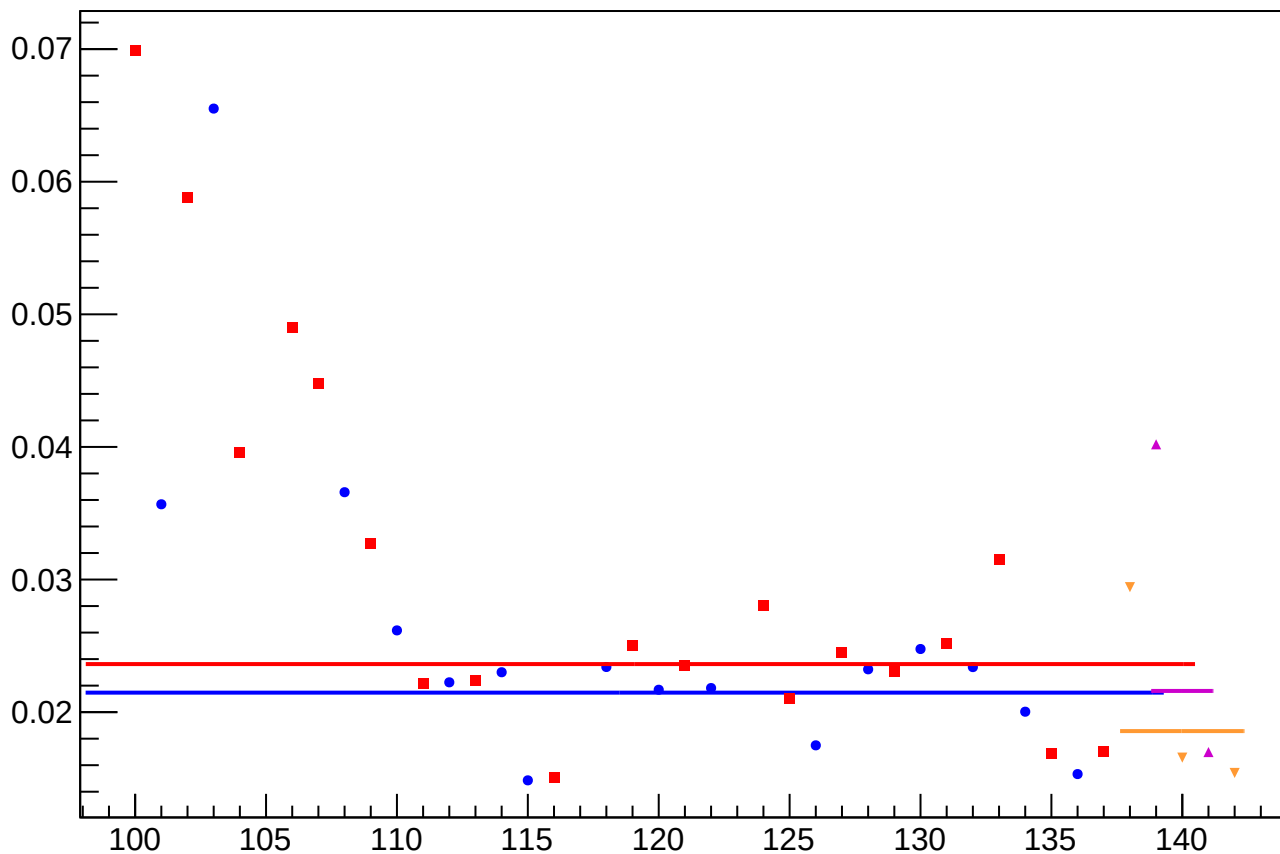
Right: -0.534 $\pm$ 0.000 χ^2 /NDF: 515008587.7/34

In: -0.595 $\pm$ 0.000 χ^2 /NDF: 529015108.9/17

Out: -0.630 $\pm$ 0.000 χ^2 /NDF: 542994387.9/21

All: -0.612 $\pm$ 0.000 χ^2 /NDF: 1080757622.1/3

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 1153987.6/15

Left Out: 0.019+/-0.000 χ^2/NDF : 217626.2/2

Right Out: 0.024+/-0.000 χ^2/NDF : 1277268.6/18

Left In: 0.022+/-0.000 χ^2/NDF : 449402.2/1

Left: 0.020+/-0.000 χ^2/NDF : 696279.9/4

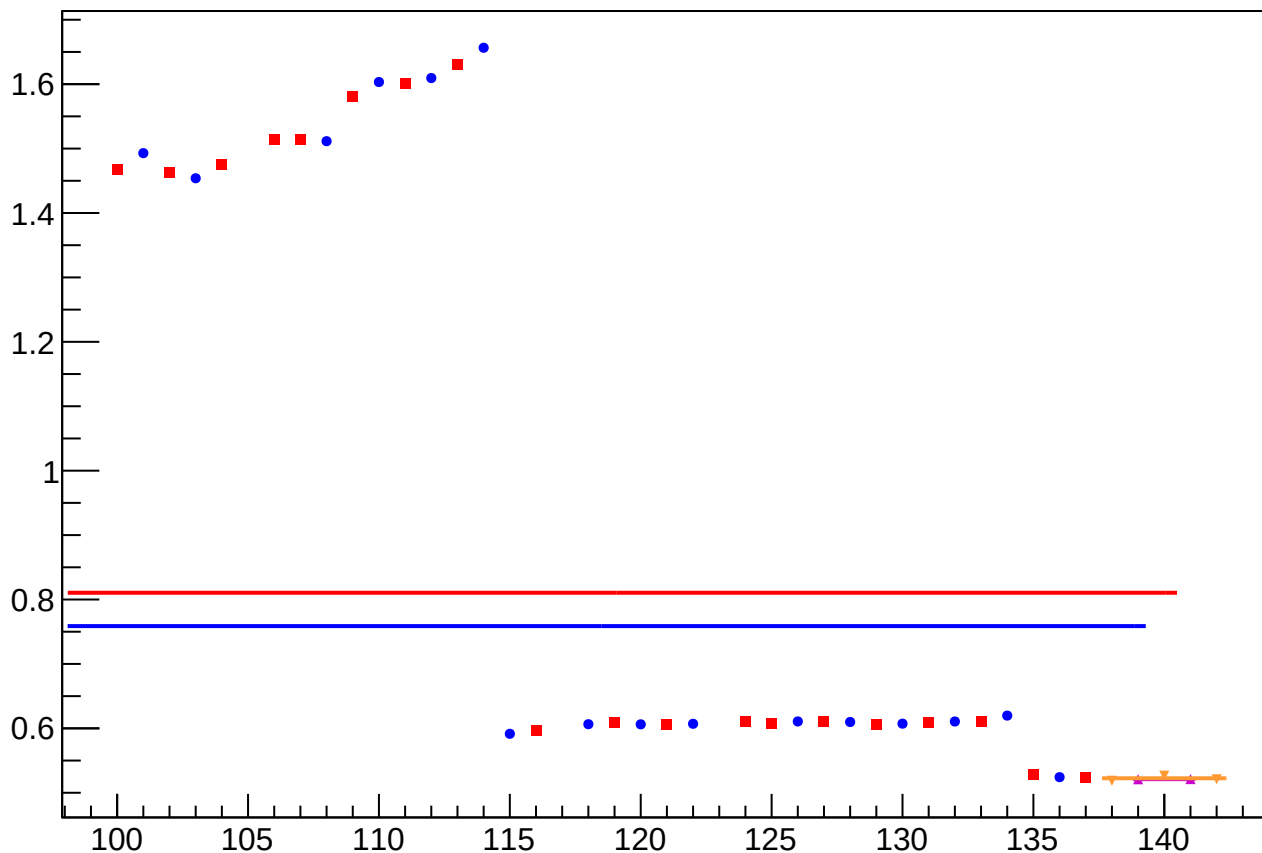
Right: 0.022+/-0.000 χ^2/NDF : 2481109.4/34

In: 0.021+/-0.000 χ^2/NDF : 1603460.0/17

Out: 0.022+/-0.000 χ^2/NDF : 1642707.7/21

All: 0.022+/-0.000 χ^2/NDF : 3252461.9/39

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.759+/-0.000

χ^2/NDF : 4304169889.2/15

Left Out: 0.523+/-0.000

χ^2/NDF : 190969.2/2

Right Out: 0.810+/-0.000

χ^2/NDF : 4769381416.8/18

Left In: 0.521+/-0.000

χ^2/NDF : 208.1/1

Left: 0.522+/-0.000

χ^2/NDF : 204508.5/4

Right: 0.784+/-0.000

χ^2/NDF : 9114268233.2/34

In: 0.690+/-0.000

χ^2/NDF : 4816865298.9/17

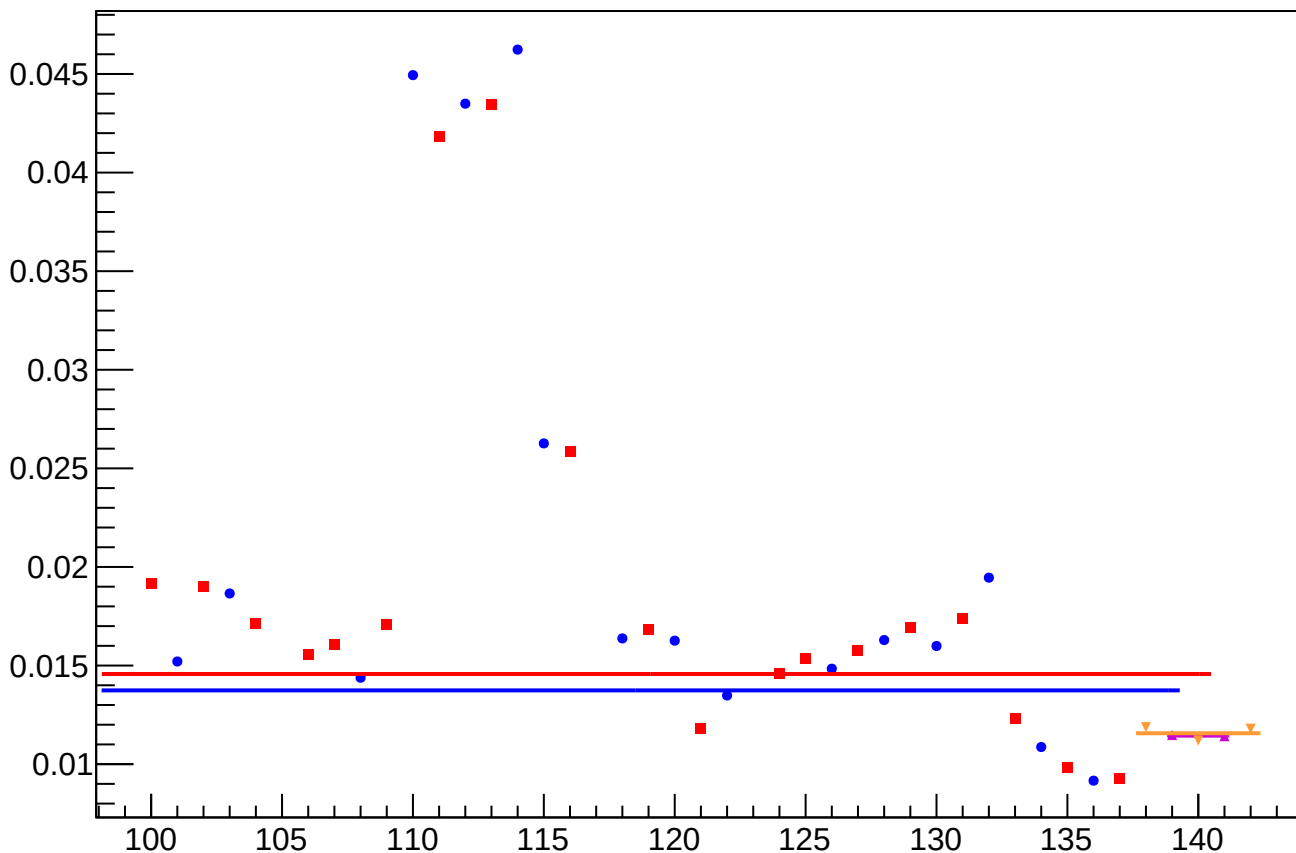
Out: 0.714+/-0.000

χ^2/NDF : 5583316855.3/21

All: 0.702+/-0.000

χ^2/NDF : 10412901855.6/3

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1649769.2/15

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3016.7/2

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1455054.4/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:22.0/1

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 3239.0/4

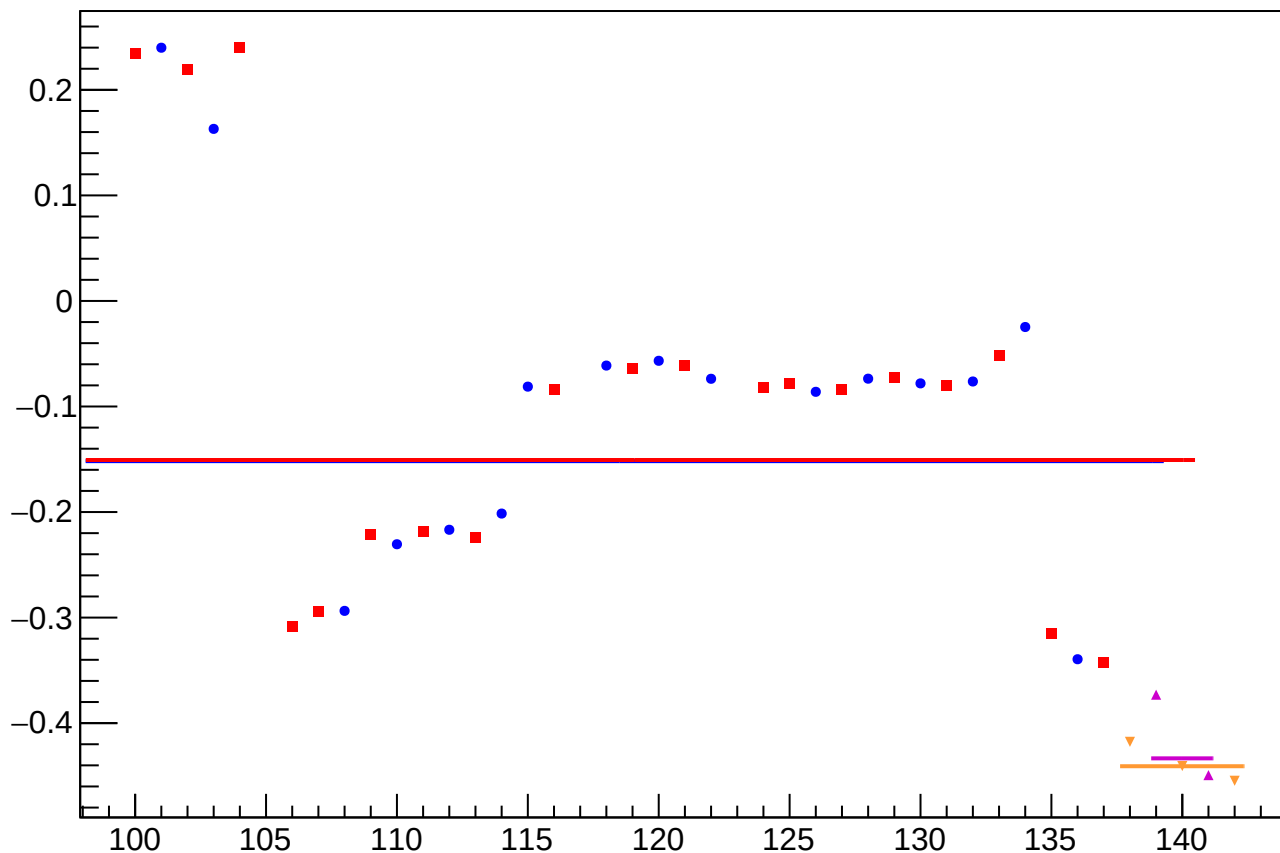
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 3125814.5/34

In: 0.013 $\pm$ 0.000 χ^2 /NDF:1745367.7/17

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:1635160.3/21

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 3391057.9/39

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.152+/-0.000 χ^2/NDF : 276791709.3/15

Left Out: -0.441+/-0.000 χ^2/NDF : 710199.8/2

Right Out: -0.151+/-0.000 χ^2/NDF : 199410234.4/18

Left In: -0.433+/-0.000 χ^2/NDF : 2932556.9/1

Left: -0.438+/-0.000 χ^2/NDF : 3739674.9/4

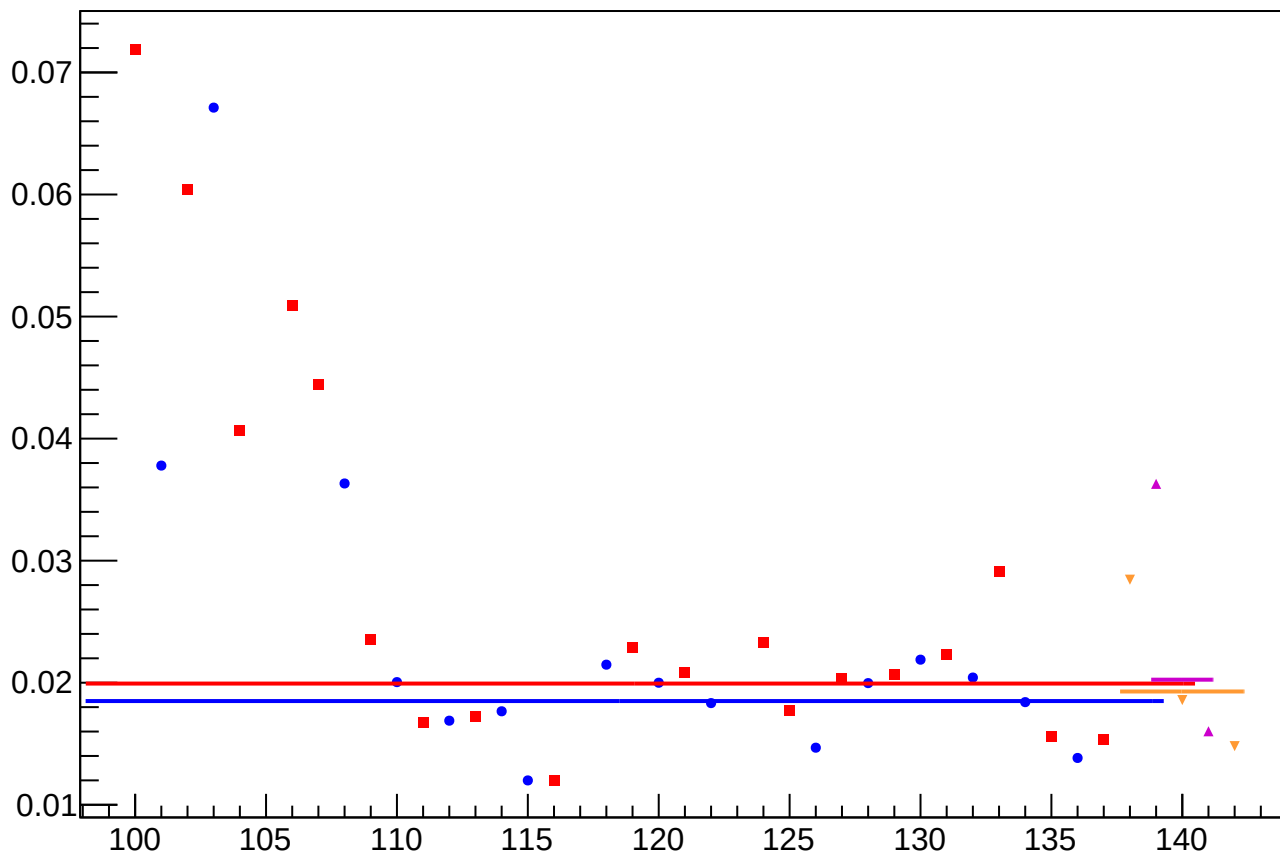
Right: -0.151+/-0.000 χ^2/NDF : 476210345.8/34

In: -0.198+/-0.000 χ^2/NDF : 482127009.8/17

Out: -0.217+/-0.000 χ^2/NDF : 462678044.6/21

All: -0.207+/-0.000 χ^2/NDF : 947832725.6/39

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000 χ^2 /NDF: 1372359.1/15

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:197238.4/2

Right Out: 0.020 $\pm$ 0.000 χ^2 /NDF: 1547561.3/18

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF:414967.5/1

Left: 0.020 $\pm$ 0.000 χ^2 /NDF: 615461.4/4

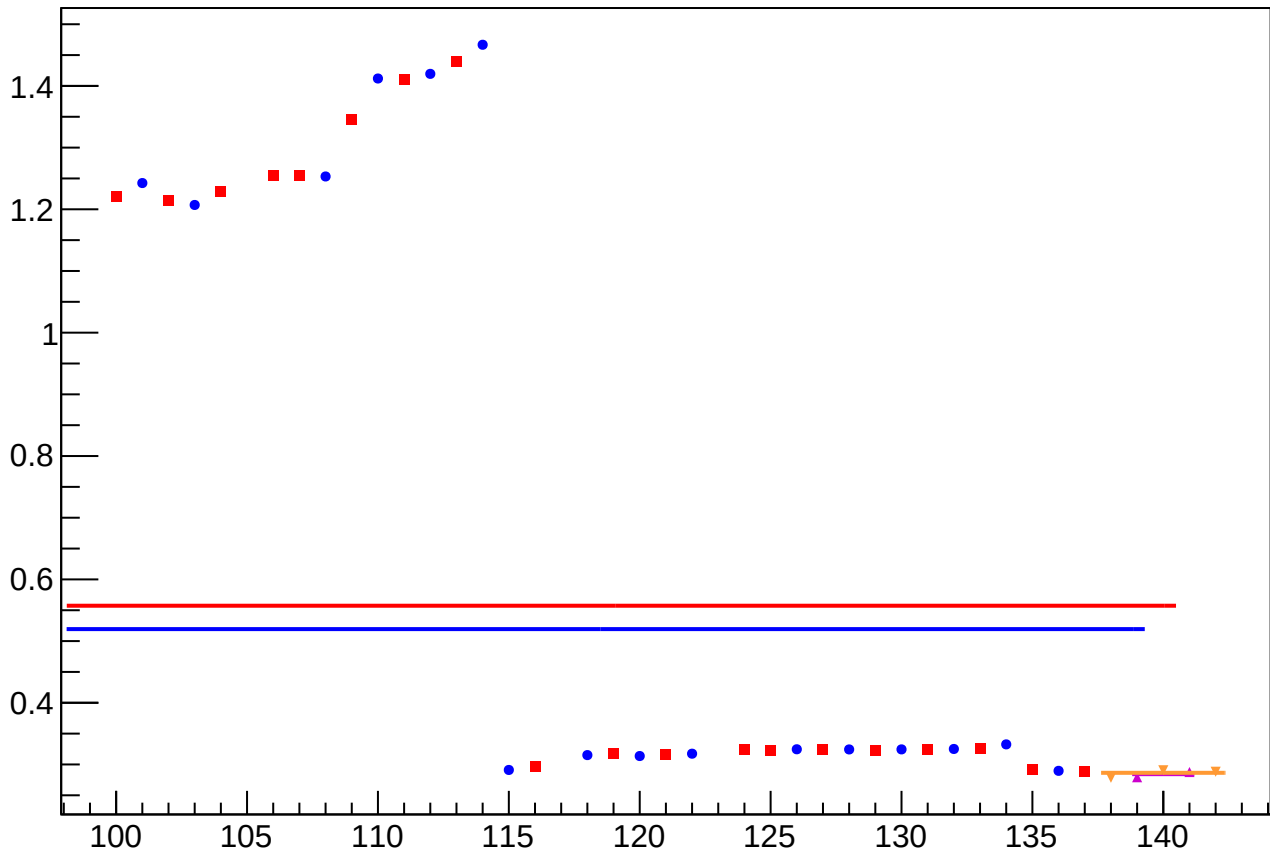
Right: 0.019 $\pm$ 0.000 χ^2 /NDF: 2949710.8/34

In: 0.019 $\pm$ 0.000 χ^2 /NDF:1802981.2/17

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:1747426.6/21

All: 0.019 $\pm$ 0.000 χ^2 /NDF: 3568333.1/39

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.519+/-0.000 χ^2/NDF : 6319132275.3/15

Left Out: 0.286+/-0.000 χ^2/NDF : 383959.9/2

Right Out: 0.557+/-0.000 χ^2/NDF : 6746144835.5/18

Left In: 0.284+/-0.000 χ^2/NDF : 223511.2/1

Left: 0.285+/-0.000 χ^2/NDF : 639812.8/4

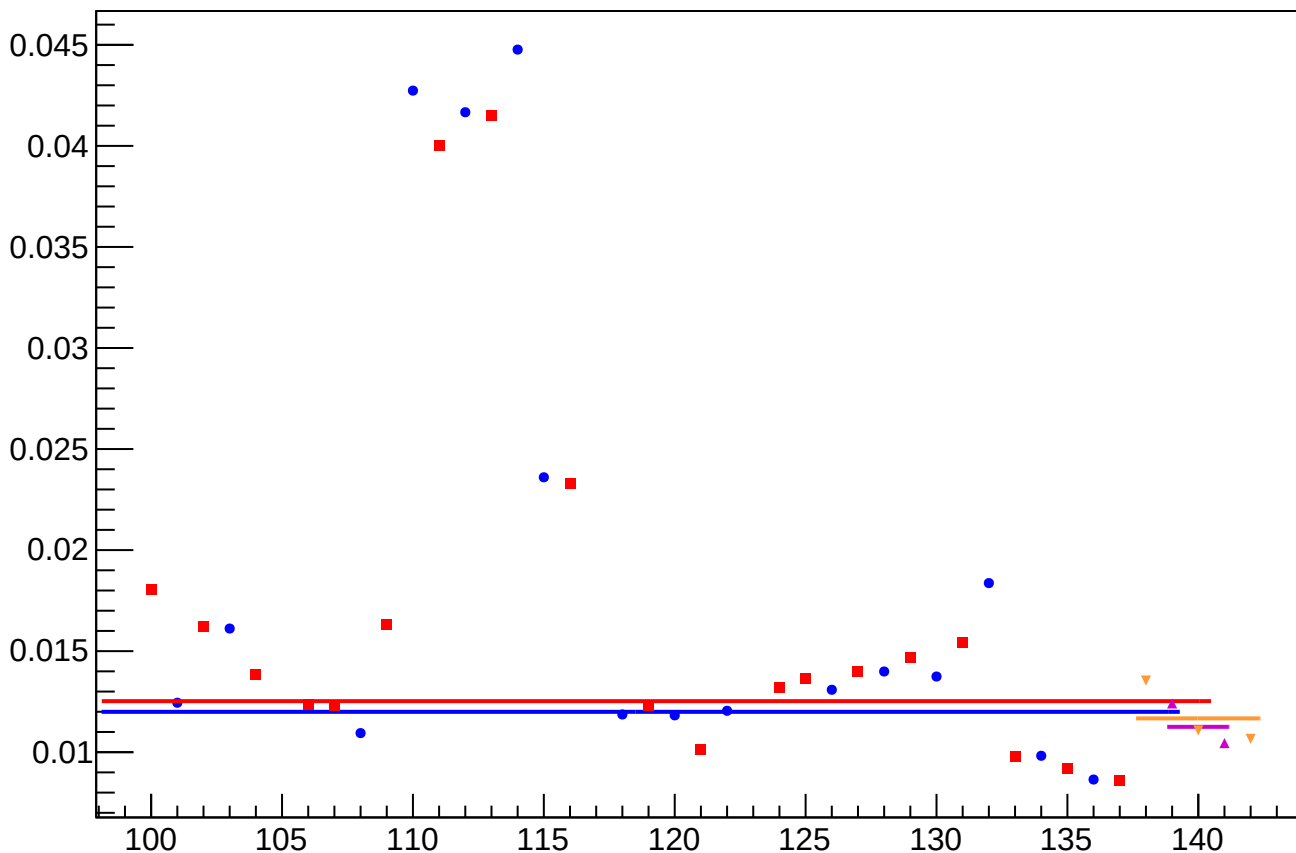
Right: 0.538+/-0.000 χ^2/NDF : 13094140546.7/34

In: 0.463+/-0.000 χ^2/NDF : 6865313680.1/17

Out: 0.485+/-0.000 χ^2/NDF : 7512533484.3/21

All: 0.474+/-0.000 χ^2/NDF : 14390302370.6/3

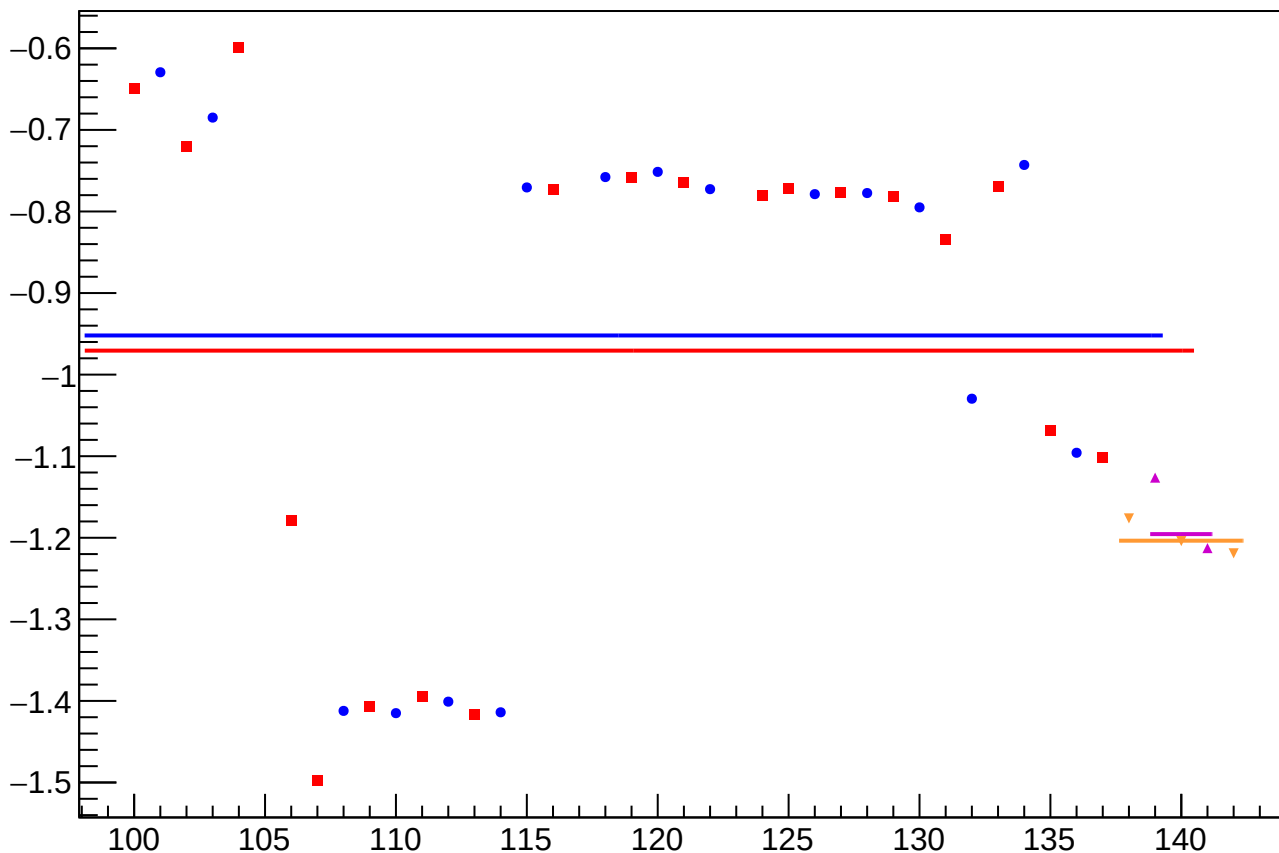
yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1491608.2/15
 Left Out: 0.012+/-0.000 χ^2/NDF : 40701.4/2
 Right Out: 0.013+/-0.000 χ^2/NDF : 1434210.5/18
 Left In: 0.011+/-0.000 χ^2/NDF : 24134.1/1

Left: 0.011+/-0.000 χ^2/NDF : 67205.8/4
 Right: 0.012+/-0.000 χ^2/NDF : 2937026.7/34
 In: 0.012+/-0.000 χ^2/NDF : 1526632.5/17
 Out: 0.012+/-0.000 χ^2/NDF : 1490100.9/21
 All: 0.012+/-0.000 χ^2/NDF : 3028981.4/39

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.952+/-0.000 χ^2/NDF : 699468857.6/15

Left Out: -1.204+/-0.000 χ^2/NDF : 902326.2/2

Right Out: -0.971+/-0.000 χ^2/NDF : 714505458.0/18

Left In: -1.196+/-0.000 χ^2/NDF : 3269432.6/1

Left: -1.200+/-0.000 χ^2/NDF : 4280915.3/4

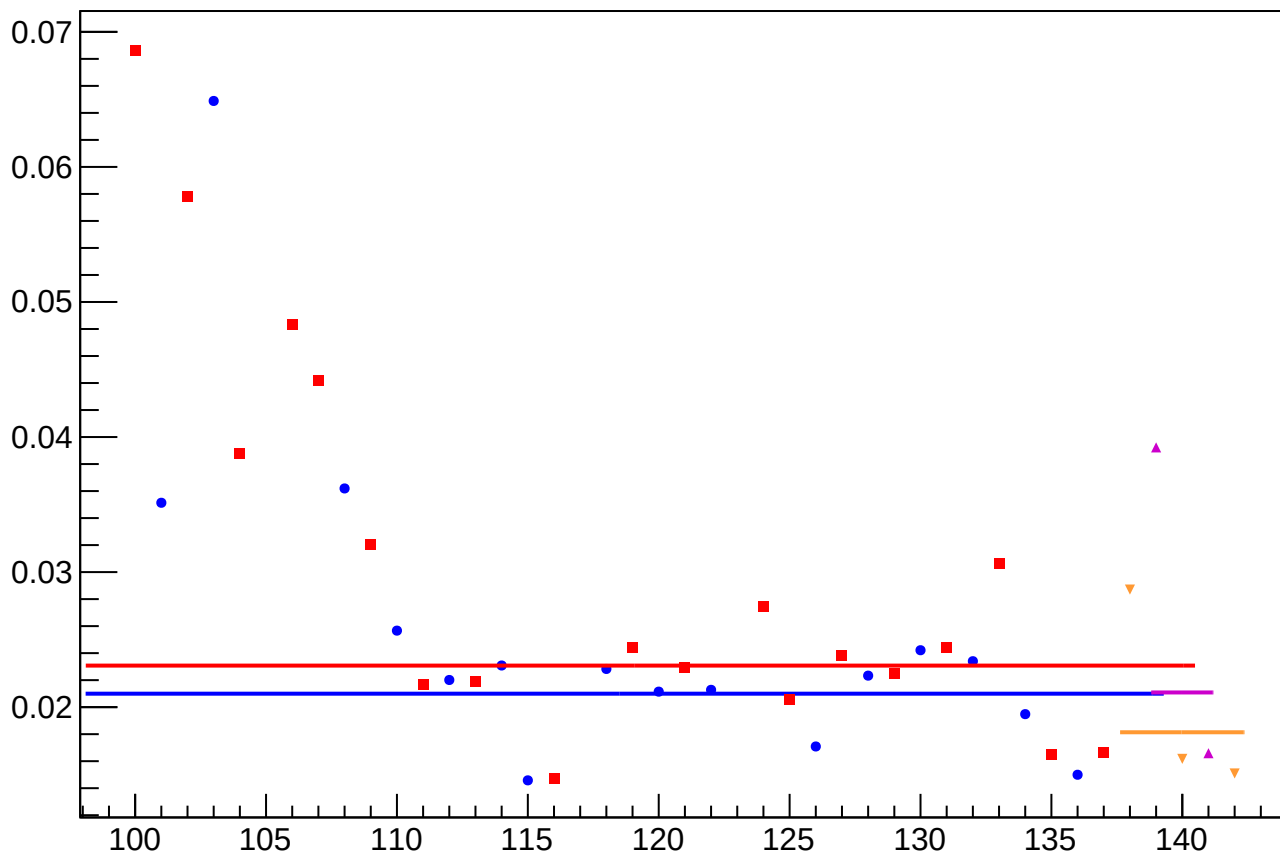
Right: -0.961+/-0.000 χ^2/NDF : 1415910427.1/34

In: -0.997+/-0.000 χ^2/NDF : 835712933.5/17

Out: -1.038+/-0.000 χ^2/NDF : 880078584.9/21

All: -1.018+/-0.000 χ^2/NDF : 1728416674.4/3

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000

χ^2/NDF : 1166992.9/15

Left Out: 0.018+/-0.000

χ^2/NDF : 216619.0/2

Right Out: 0.023+/-0.000

χ^2/NDF : 1281311.4/18

Left In: 0.021+/-0.000

χ^2/NDF : 449084.1/1

Left: 0.019+/-0.000

χ^2/NDF : 694791.2/4

Right: 0.022+/-0.000

χ^2/NDF : 2496865.9/34

In: 0.021+/-0.000

χ^2/NDF : 1616114.1/17

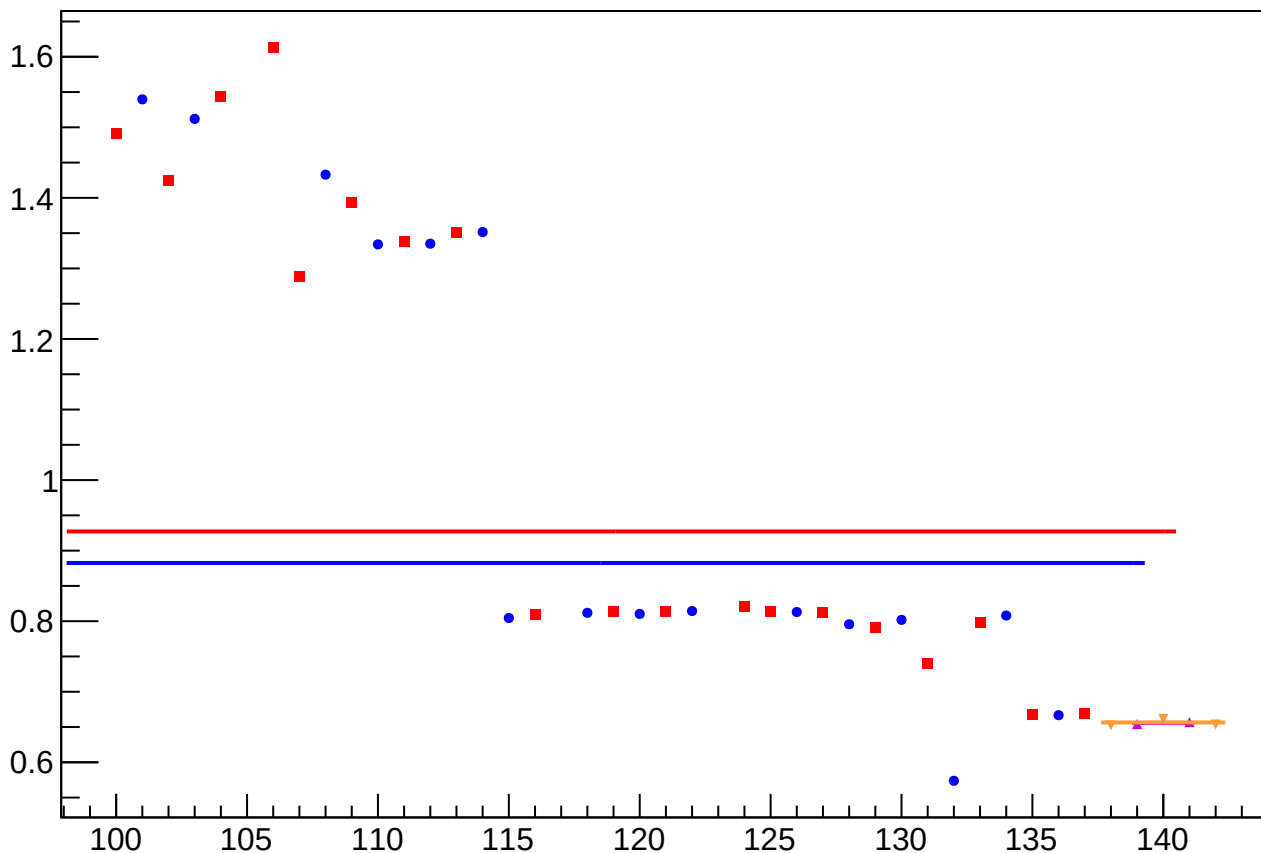
Out: 0.022+/-0.000

χ^2/NDF : 1645777.2/21

All: 0.021+/-0.000

χ^2/NDF : 3267737.5/39

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.882 $\pm$ 0.000 χ^2 /NDF: 2784156746.4/15

Left Out: 0.657 $\pm$ 0.000 χ^2 /NDF:274915.5/2

Right Out: 0.927 $\pm$ 0.000 χ^2 /NDF: 2762998321.3/18

Left In: 0.656 $\pm$ 0.000 χ^2 /NDF:22461.5/1

Left: 0.656 $\pm$ 0.000 χ^2 /NDF: 301478.7/4

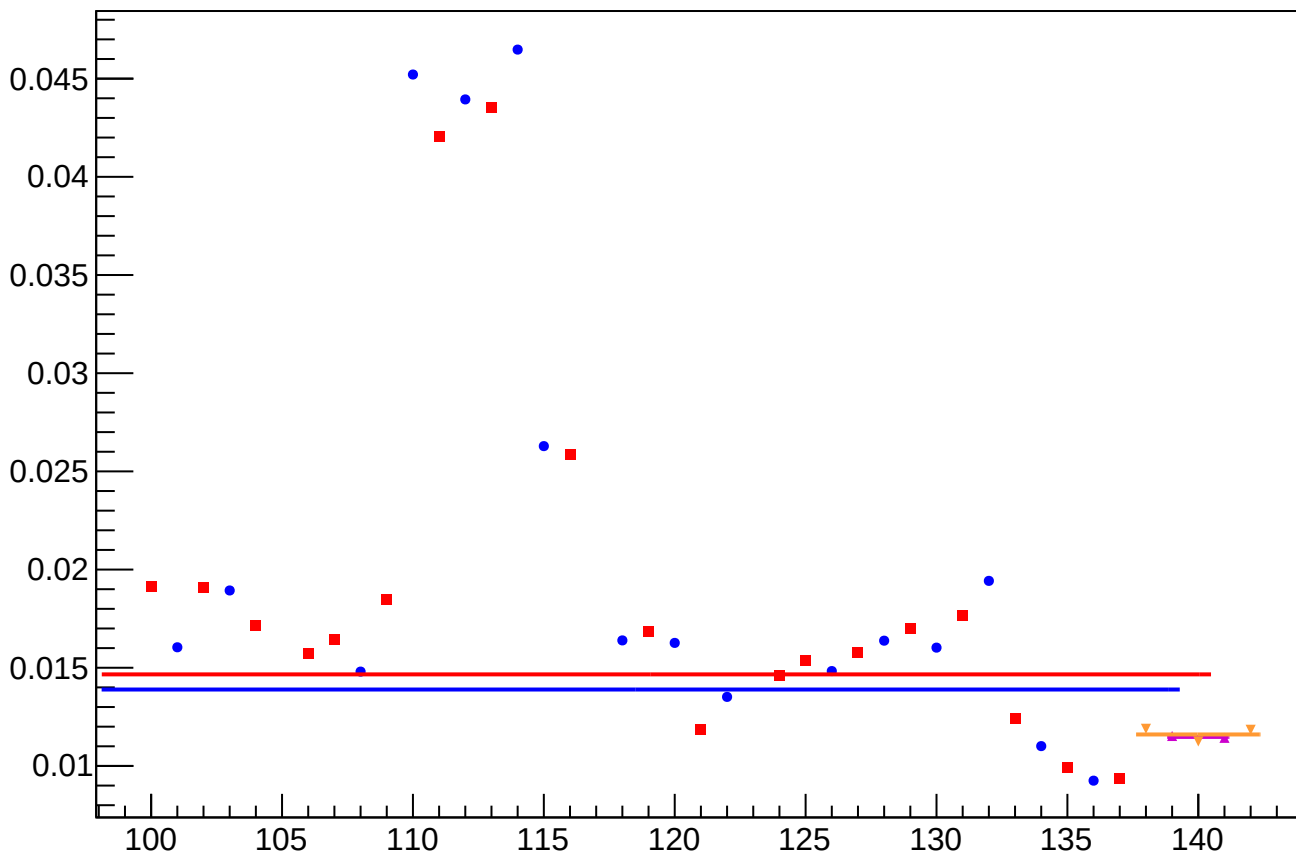
Right: 0.904 $\pm$ 0.000 χ^2 /NDF: 5576917007.9/34

In: 0.816 $\pm$ 0.000 χ^2 /NDF:3245658188.1/17

Out: 0.836 $\pm$ 0.000 χ^2 /NDF:3475342340.9/21

All: 0.826 $\pm$ 0.000 χ^2 /NDF: 6729557027.7/39

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1646691.8/15

Left Out: 0.012+/-0.000 χ^2/NDF :2834.4/2

Right Out: 0.015+/-0.000 χ^2/NDF : 1467025.6/18

Left In: 0.011+/-0.000 χ^2/NDF :56.5/1

Left: 0.012+/-0.000 χ^2/NDF : 3103.3/4

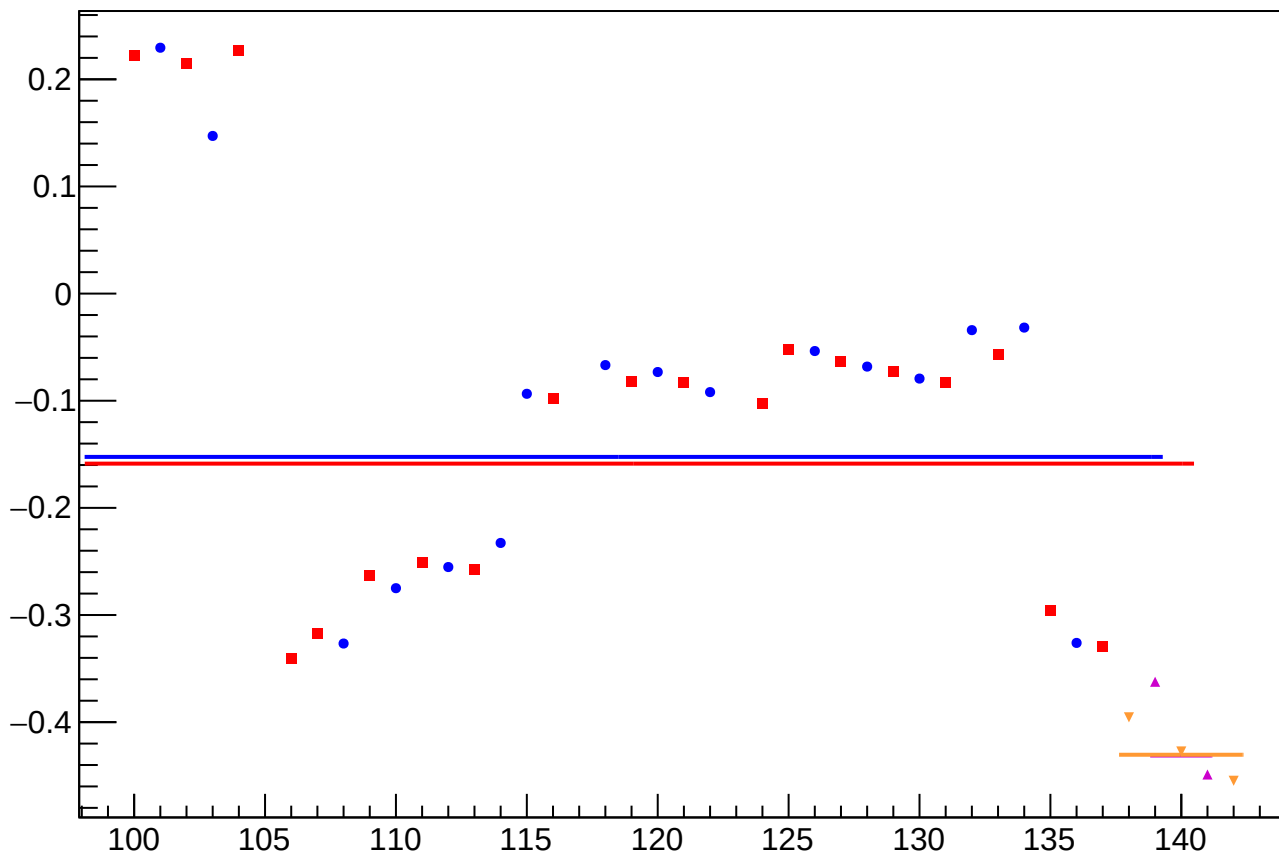
Right: 0.014+/-0.000 χ^2/NDF : 3131409.7/34

In: 0.013+/-0.000 χ^2/NDF :1751318.4/17

Out: 0.014+/-0.000 χ^2/NDF :1651801.6/21

All: 0.013+/-0.000 χ^2/NDF : 3411771.6/39

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.152+/-0.000 χ^2/NDF : 274261842.6/15

Left Out: -0.430+/-0.000 χ^2/NDF : 1833680.8/2

Right Out: -0.159+/-0.000 χ^2/NDF : 195614120.0/18

Left In: -0.431+/-0.000 χ^2/NDF : 3698326.0/1

Left: -0.431+/-0.000 χ^2/NDF : 5532953.4/4

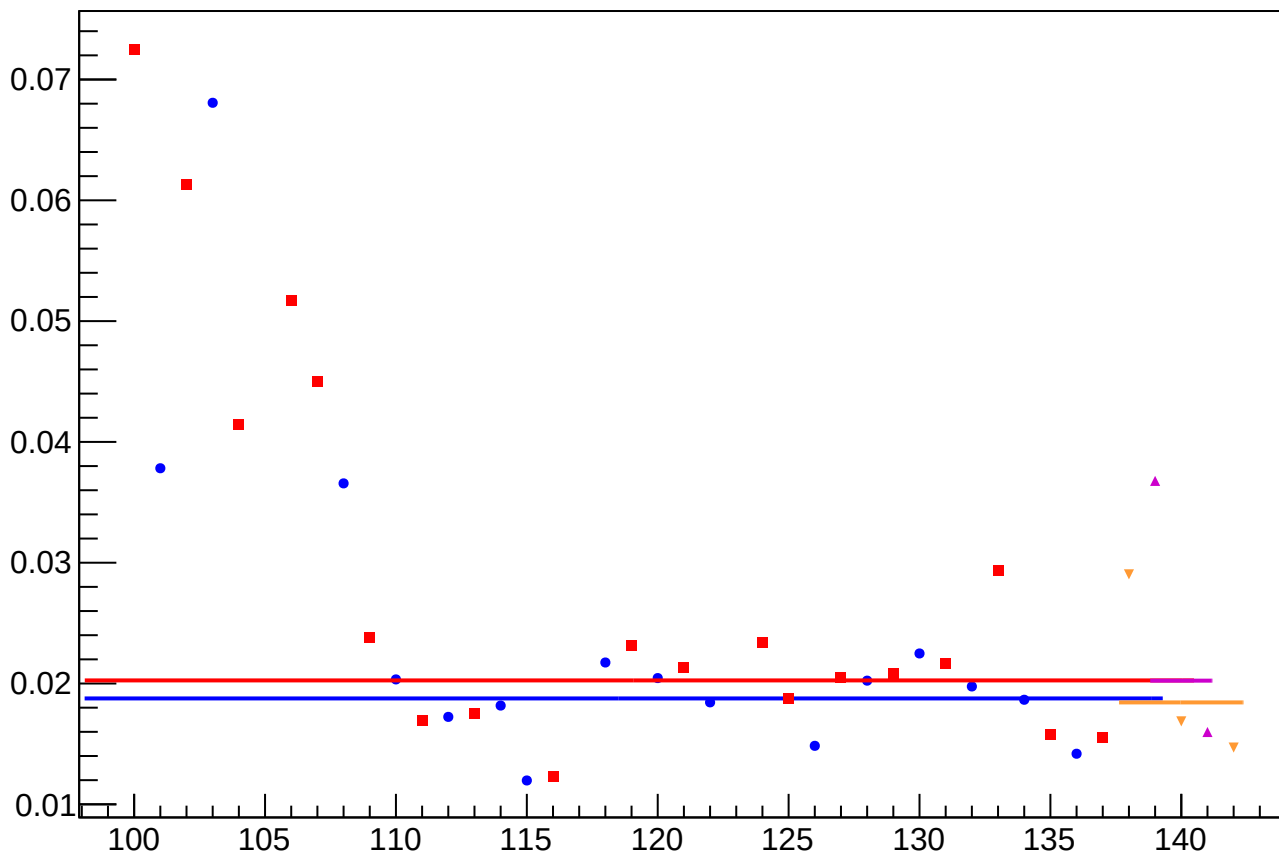
Right: -0.155+/-0.000 χ^2/NDF : 470153865.7/34

In: -0.199+/-0.000 χ^2/NDF : 473997320.3/17

Out: -0.225+/-0.000 χ^2/NDF : 436143370.1/21

All: -0.212+/-0.000 χ^2/NDF : 915965623.1/39

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1349412.3/15

Left Out: 0.018+/-0.000 χ^2/NDF :230202.5/2

Right Out: 0.020+/-0.000 χ^2/NDF : 1529624.9/18

Left In: 0.020+/-0.000 χ^2/NDF :426546.7/1

Left: 0.019+/-0.000 χ^2/NDF : 668271.6/4

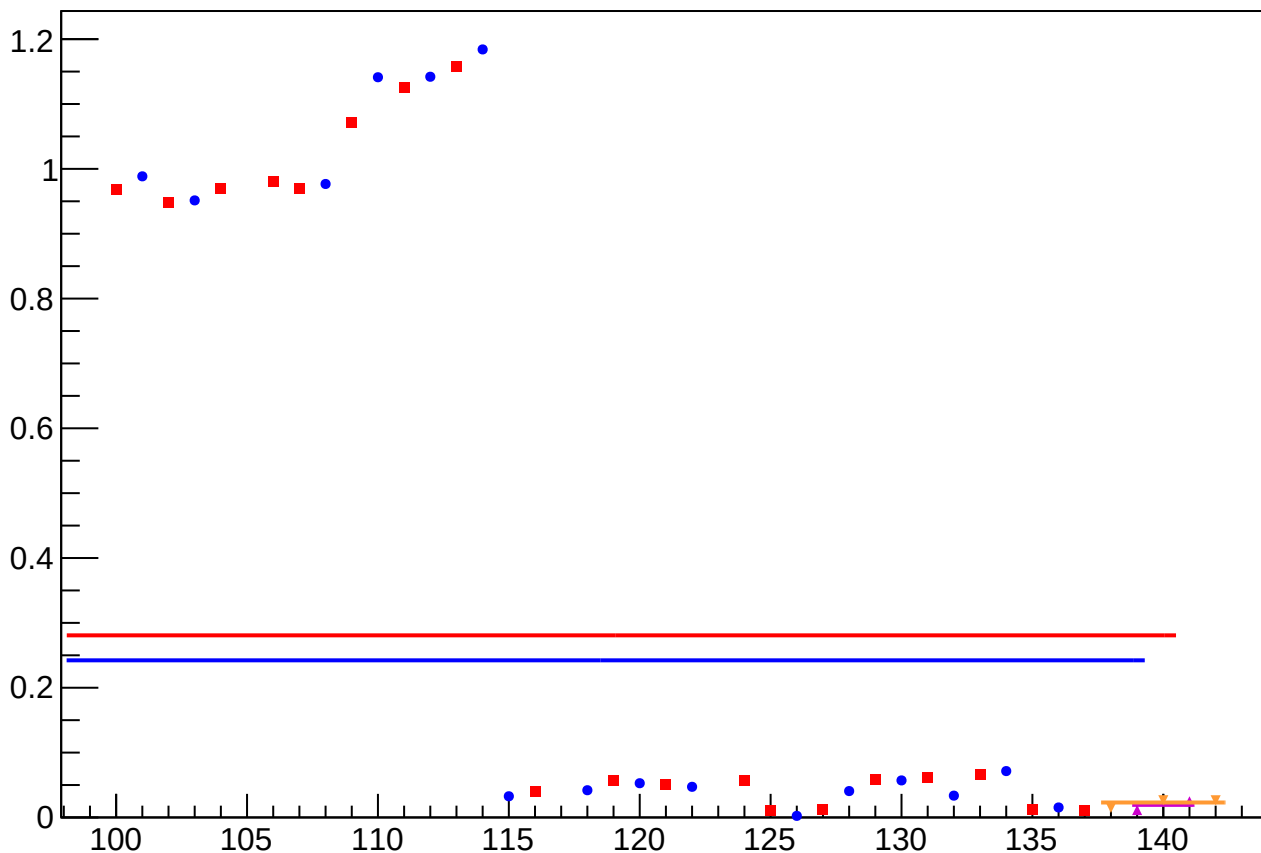
Right: 0.019+/-0.000 χ^2/NDF : 2910384.5/34

In: 0.019+/-0.000 χ^2/NDF :1786902.6/17

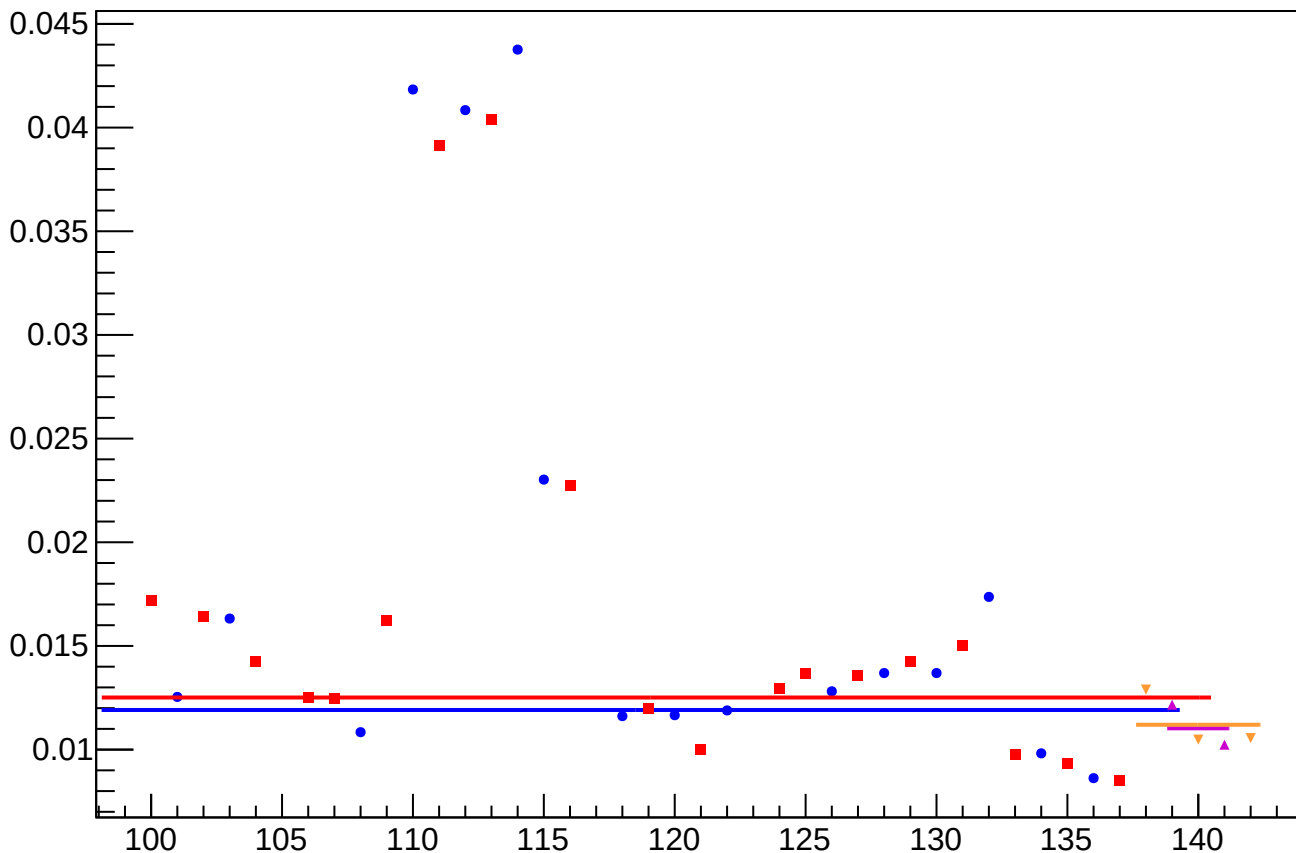
Out: 0.020+/-0.000 χ^2/NDF :1781280.5/21

All: 0.019+/-0.000 χ^2/NDF : 3579578.3/39

yield_bpm4ecY_mean vs Slug, Sign Corrected



yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1459428.8/15

Left Out: 0.011+/-0.000 χ^2/NDF :36310.4/2

Right Out: 0.013+/-0.000 χ^2/NDF : 1392455.1/18

Left In: 0.011+/-0.000 χ^2/NDF :24269.5/1

Left: 0.011+/-0.000 χ^2/NDF : 61007.9/4

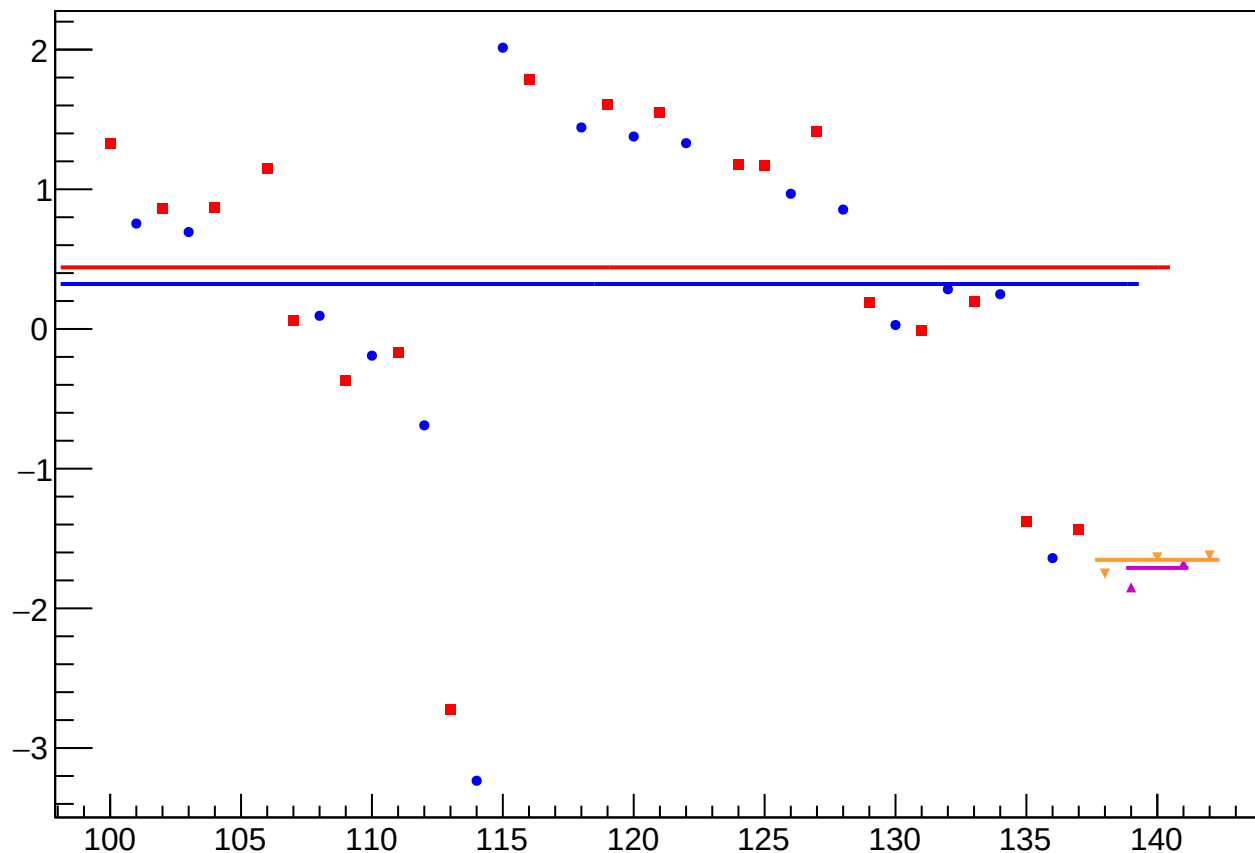
Right: 0.012+/-0.000 χ^2/NDF : 2866610.3/34

In: 0.012+/-0.000 χ^2/NDF :1499646.9/17

Out: 0.012+/-0.000 χ^2/NDF :1466983.5/21

All: 0.012+/-0.000 χ^2/NDF : 2977560.8/39

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.322+/-0.000

χ^2/NDF : 1664983742.5/15

Left Out: -1.653+/-0.000

χ^2/NDF : 491708.3/2

Right Out: 0.441+/-0.000

χ^2/NDF : 1796703168.4/18

Left In: -1.711+/-0.000

χ^2/NDF : 677810.0/1

Left: -1.677+/-0.000

χ^2/NDF : 1483581.1/4

Right: 0.376+/-0.000

χ^2/NDF : 3474475474.1/34

In: 0.168+/-0.000

χ^2/NDF : 2285838567.6/17

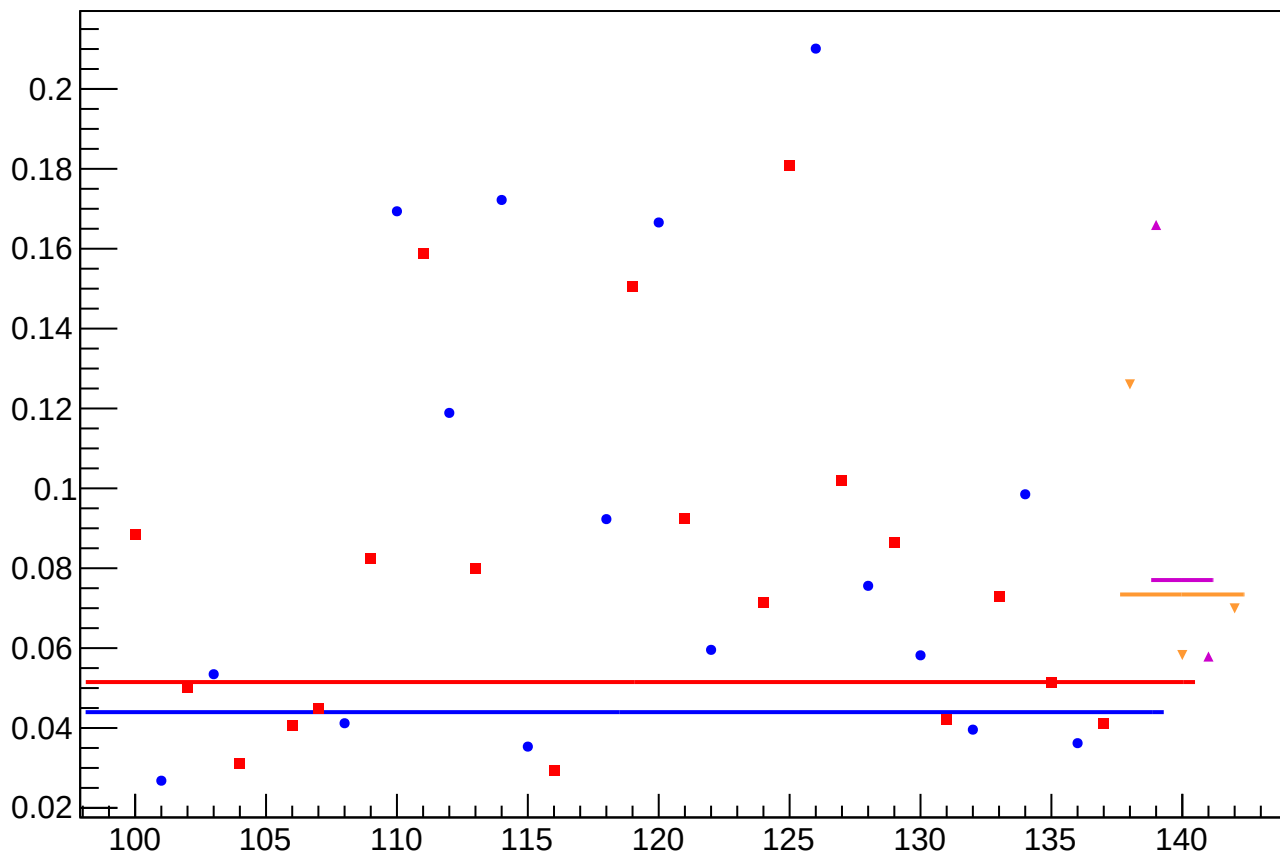
Out: 0.187+/-0.000

χ^2/NDF : 2673285202.8/21

All: 0.177+/-0.000

χ^2/NDF : 4959477385.6/39

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.044+/-0.000 χ^2/NDF : 2787474.8/15

Left Out: 0.073+/-0.000 χ^2/NDF : 288888.2/2

Right Out: 0.052+/-0.000 χ^2/NDF : 2367478.8/18

Left In: 0.077+/-0.000 χ^2/NDF : 552999.3/1

Left: 0.075+/-0.000 χ^2/NDF : 844359.9/4

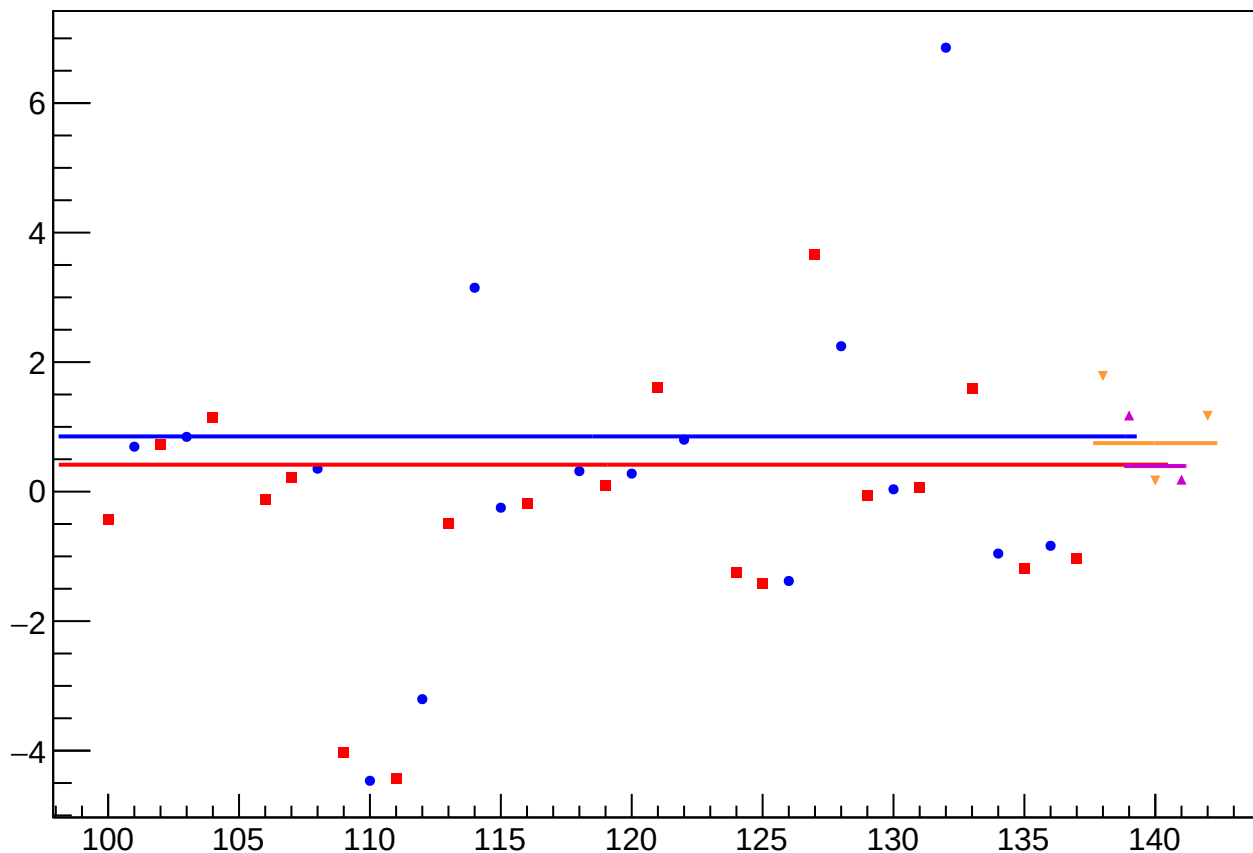
Right: 0.047+/-0.000 χ^2/NDF : 5257025.7/34

In: 0.046+/-0.000 χ^2/NDF : 3668910.4/17

Out: 0.054+/-0.000 χ^2/NDF : 2848517.5/21

All: 0.050+/-0.000 χ^2/NDF : 6635789.1/39

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.852+/-0.000 χ^2/NDF : 11576037687.7/15

Left Out: 0.749+/-0.000 χ^2/NDF : 160197270.2/2

Right Out: 0.416+/-0.000 χ^2/NDF : 5121892038.7/18

Left In: 0.395+/-0.000 χ^2/NDF : 38382253.7/1

Left: 0.611+/-0.000 χ^2/NDF : 216446770.2/4

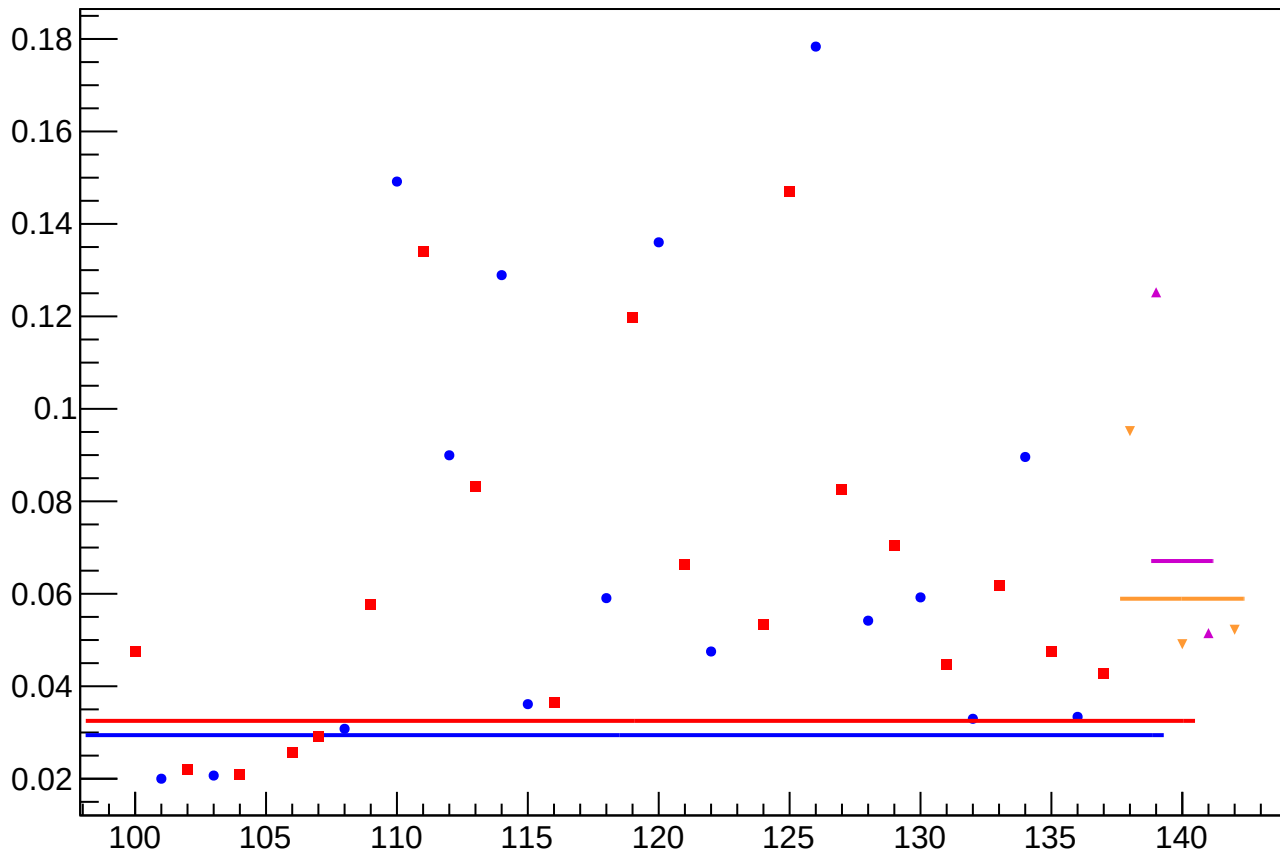
Right: 0.644+/-0.000 χ^2/NDF : 17086077865.4/34

In: 0.829+/-0.000 χ^2/NDF : 11660808998.2/17

Out: 0.444+/-0.000 χ^2/NDF : 5319240393.0/21

All: 0.641+/-0.000 χ^2/NDF : 17303121433.6/3

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.000 χ^2 /NDF: 3192424.8/15

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:235180.2/2

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 3315430.7/18

Left In: 0.067 $\pm$ 0.000 χ^2 /NDF:424755.3/1

Left: 0.062 $\pm$ 0.000 χ^2 /NDF: 678940.1/4

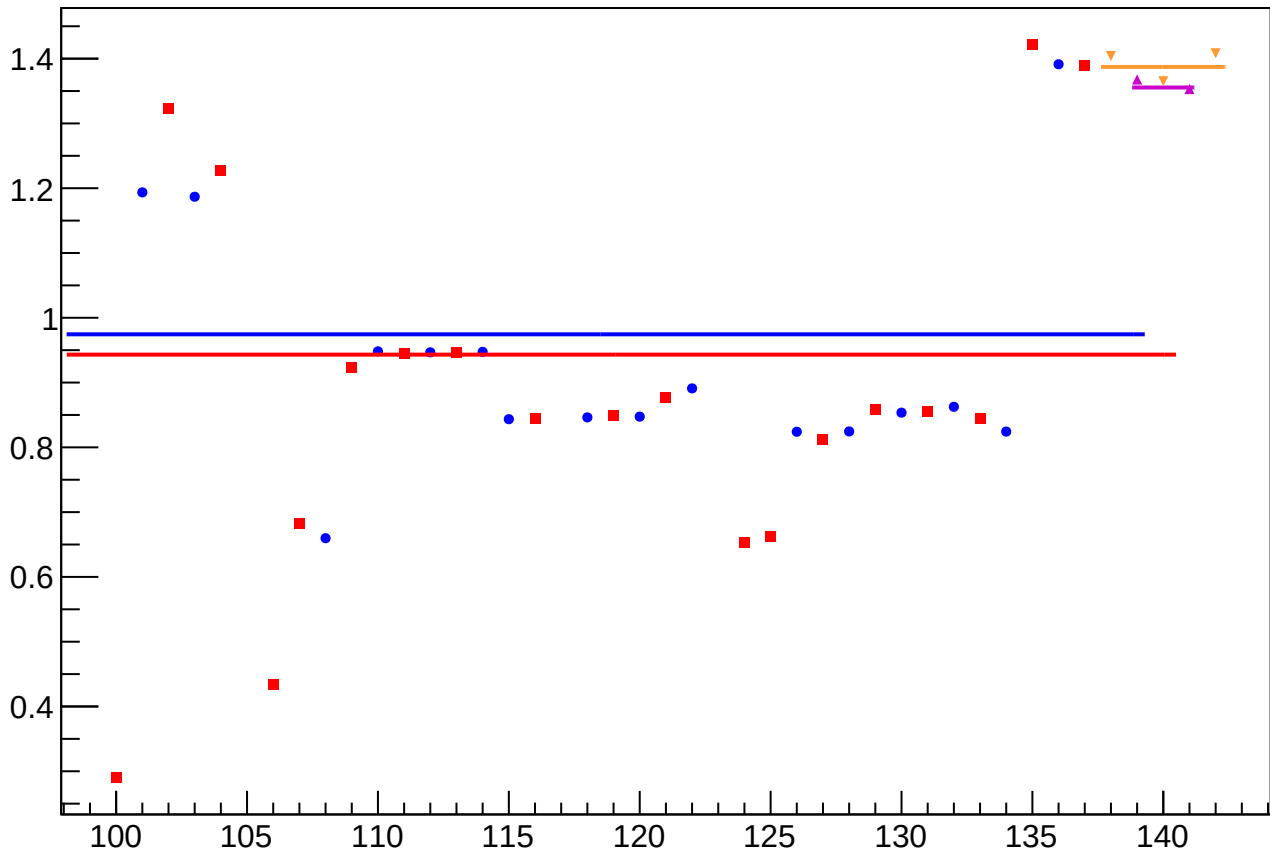
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 6546669.2/34

In: 0.031 $\pm$ 0.000 χ^2 /NDF:4247303.9/17

Out: 0.035 $\pm$ 0.000 χ^2 /NDF:4017507.4/21

All: 0.033 $\pm$ 0.000 χ^2 /NDF: 8315050.2/39

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.974 $\pm$ 0.000 χ^2 /NDF: 1458735246.5/15

Left Out: 1.387 $\pm$ 0.000 χ^2 /NDF:4363473.4/2

Right Out: 0.943 $\pm$ 0.000 χ^2 /NDF: 1670579900.3/18

Left In: 1.355 $\pm$ 0.000 χ^2 /NDF:204674.7/1

Left: 1.375 $\pm$ 0.000 χ^2 /NDF: 8683843.1/4

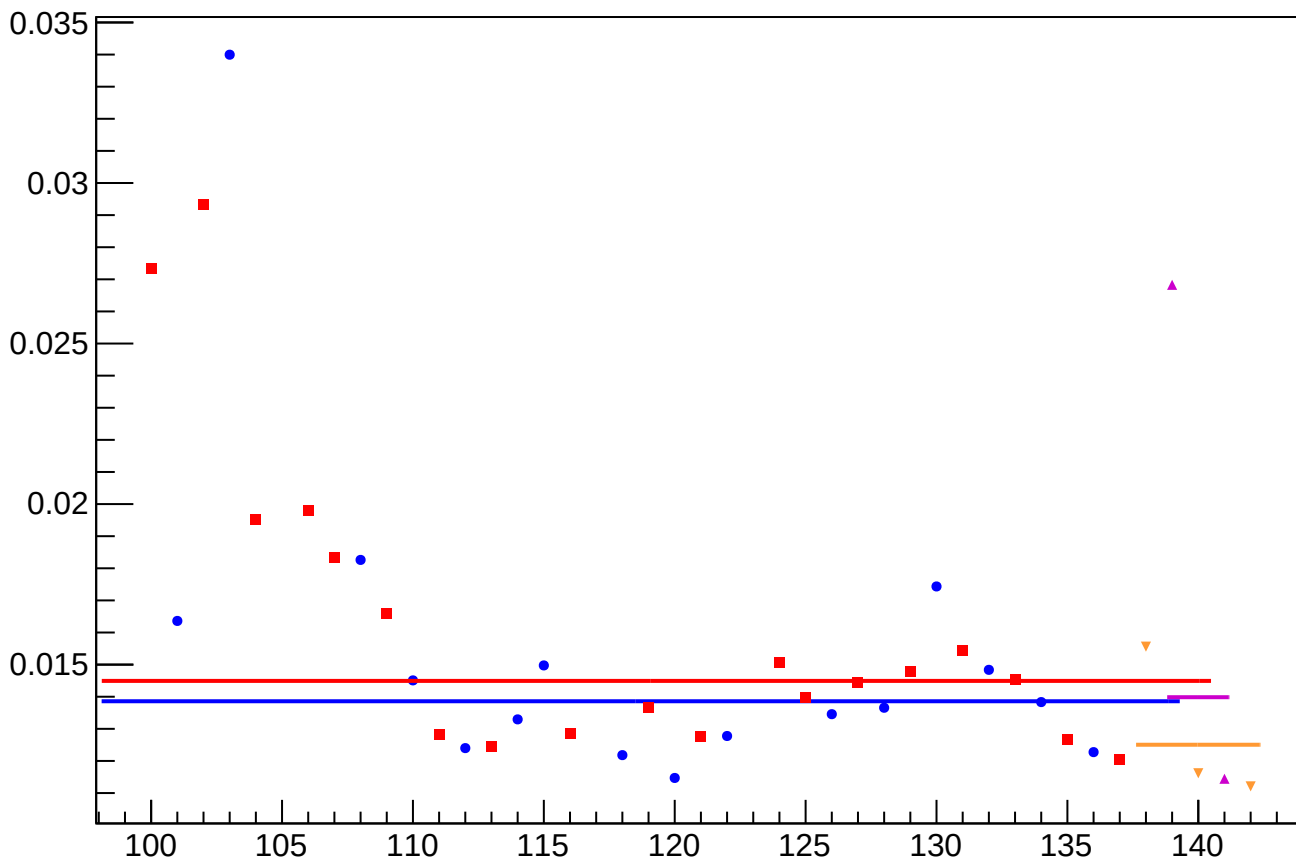
Right: 0.959 $\pm$ 0.000 χ^2 /NDF: 3144762694.7/34

In: 1.041 $\pm$ 0.000 χ^2 /NDF:2275527107.3/17

Out: 1.055 $\pm$ 0.000 χ^2 /NDF:3190061940.6/21

All: 1.048 $\pm$ 0.000 χ^2 /NDF: 5469614429.8/39

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 599979.5/15

Left Out: 0.013 $\pm$ 0.000 χ^2/NDF : 65997.3/2

Right Out: 0.014 $\pm$ 0.000 χ^2/NDF : 544337.7/18

Left In: 0.014 $\pm$ 0.000 χ^2/NDF : 444136.1/1

Left: 0.013 $\pm$ 0.000 χ^2/NDF : 528076.8/4

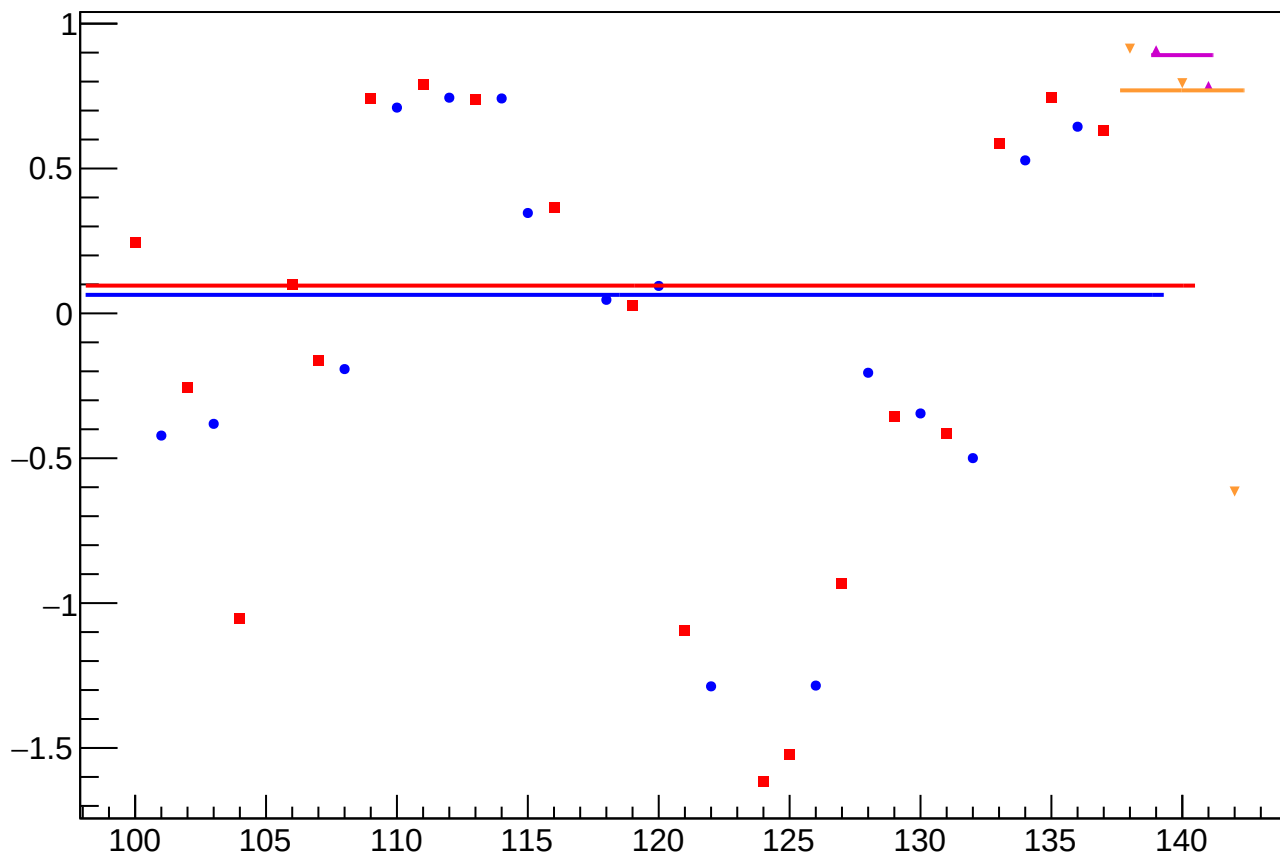
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 1156942.1/34

In: 0.014 $\pm$ 0.000 χ^2/NDF : 1044294.0/17

Out: 0.014 $\pm$ 0.000 χ^2/NDF : 671087.3/21

All: 0.014 $\pm$ 0.000 χ^2/NDF : 1715878.6/39

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.064 $\pm$ 0.000

χ^2 /NDF: 11035911379.4/15

Left: 0.838 $\pm$ 0.000

χ^2 /NDF: 4661998070.7/4

Left Out: 0.770 $\pm$ 0.000

χ^2 /NDF: 4390480573.5/2

Right: 0.081 $\pm$ 0.000

χ^2 /NDF: 28834701842.2/34

Right Out: 0.096 $\pm$ 0.000

χ^2 /NDF: 17784850774.3/18

In: 0.532 $\pm$ 0.000

χ^2 /NDF: 20847814089.2/17

Out: 0.407 $\pm$ 0.000

χ^2 /NDF: 28423159729.4/21

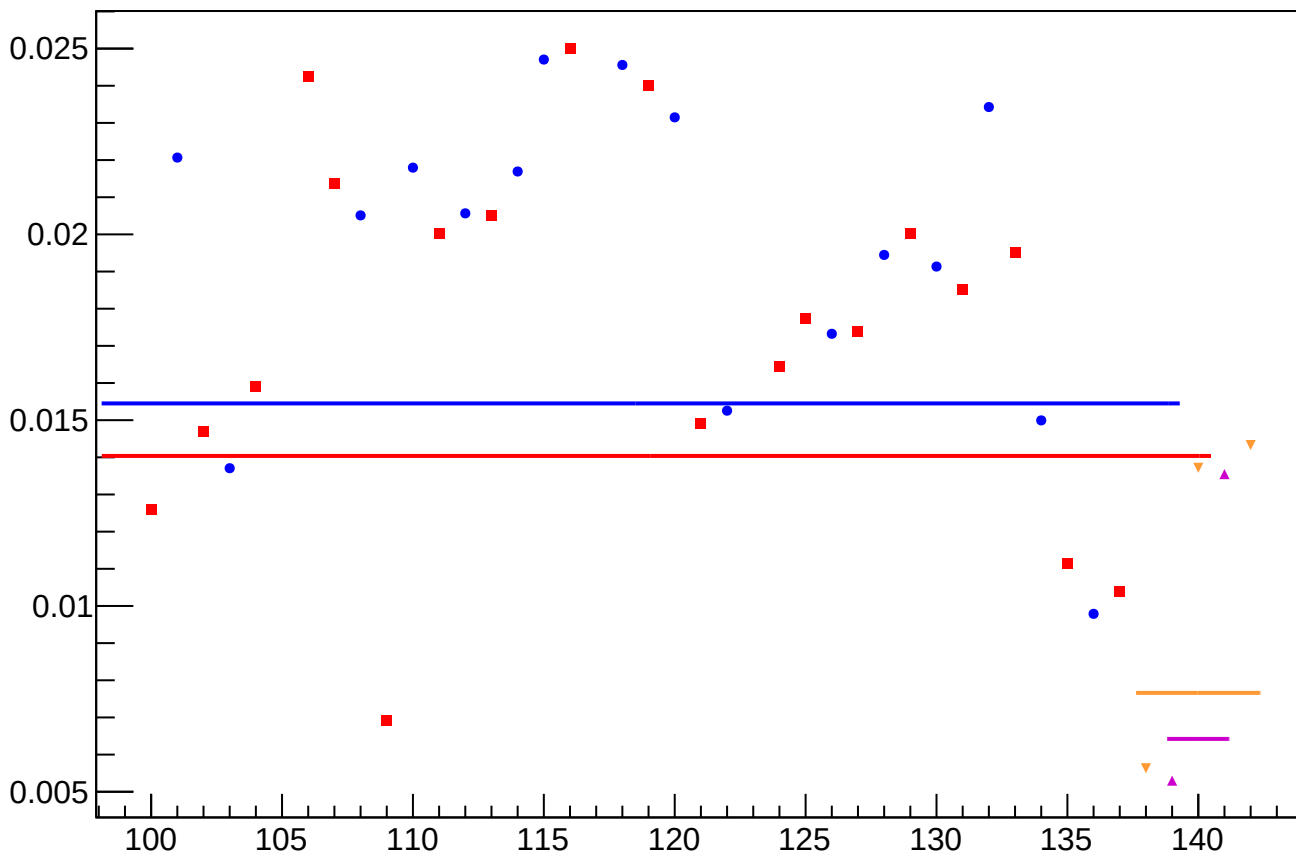
Left In: 0.891 $\pm$ 0.000

χ^2 /NDF: 58816808.8/1

All: 0.471 $\pm$ 0.000

χ^2 /NDF: 49718212446.9/3

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000

χ^2/NDF : 1293711.1/15

Left Out: 0.008+/-0.000

χ^2/NDF : 649698.4/2

Right Out: 0.014+/-0.000

χ^2/NDF : 1686554.4/18

Left In: 0.006+/-0.000

χ^2/NDF : 525554.8/1

Left: 0.007+/-0.000

χ^2/NDF : 1219320.9/4

Right: 0.015+/-0.000

χ^2/NDF : 3034802.2/34

In: 0.010+/-0.000

χ^2/NDF : 4141655.0/17

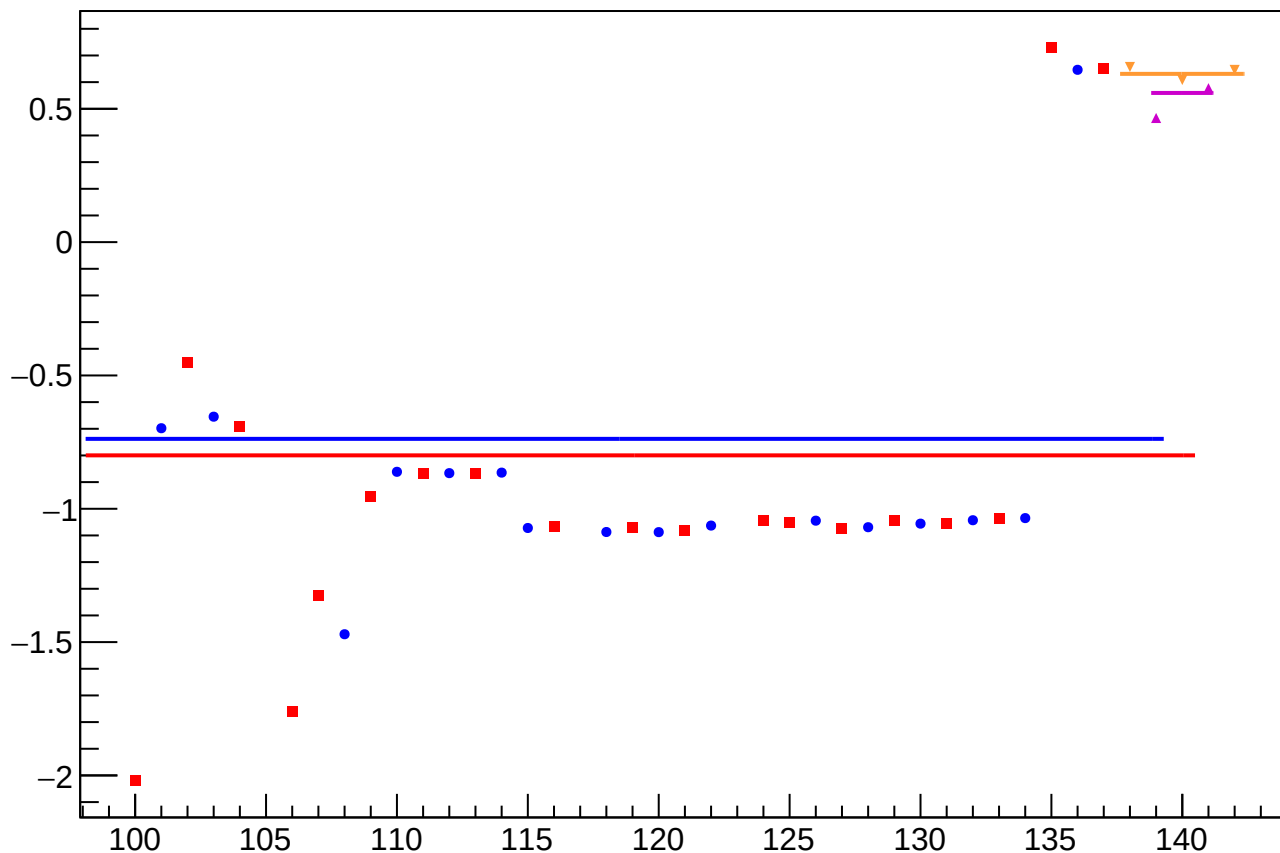
Out: 0.011+/-0.000

χ^2/NDF : 3455404.8/21

All: 0.011+/-0.000

χ^2/NDF : 7629463.3/39

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.738 ± 0.000 $\chi^2/\text{NDF}: 2072845802.4/15$

Left Out: 0.631 ± 0.000 $\chi^2/\text{NDF}: 749829.5/2$

Right Out: -0.800 ± 0.000 $\chi^2/\text{NDF}: 1883862445.0/18$

Left In: 0.559 ± 0.000 $\chi^2/\text{NDF}: 1700834.8/1$

Left: 0.603 ± 0.000 $\chi^2/\text{NDF}: 5598690.6/4$

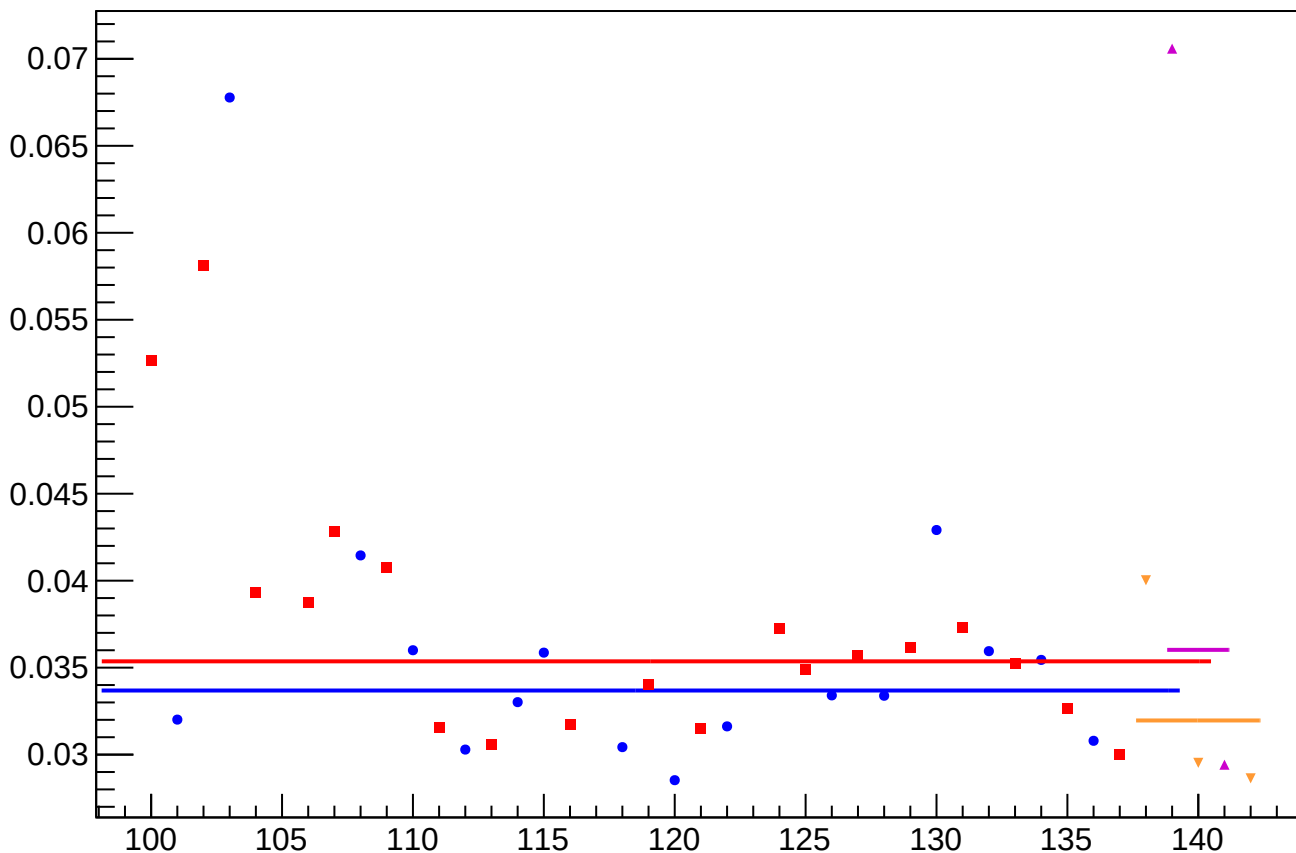
Right: -0.768 ± 0.000 $\chi^2/\text{NDF}: 3966960462.4/34$

In: -0.538 ± 0.000 $\chi^2/\text{NDF}: 3513768945.4/17$

Out: -0.467 ± 0.000 $\chi^2/\text{NDF}: 4347133515.9/21$

All: -0.502 ± 0.000 $\chi^2/\text{NDF}: 7877772973.5/3$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.034+/-0.000 χ^2/NDF : 420227.2/15

Left Out: 0.032+/-0.000 χ^2/NDF : 70396.8/2

Right Out: 0.035+/-0.000 χ^2/NDF : 296353.9/18

Left In: 0.036+/-0.000 χ^2/NDF : 461306.7/1

Left: 0.034+/-0.000 χ^2/NDF : 551958.5/4

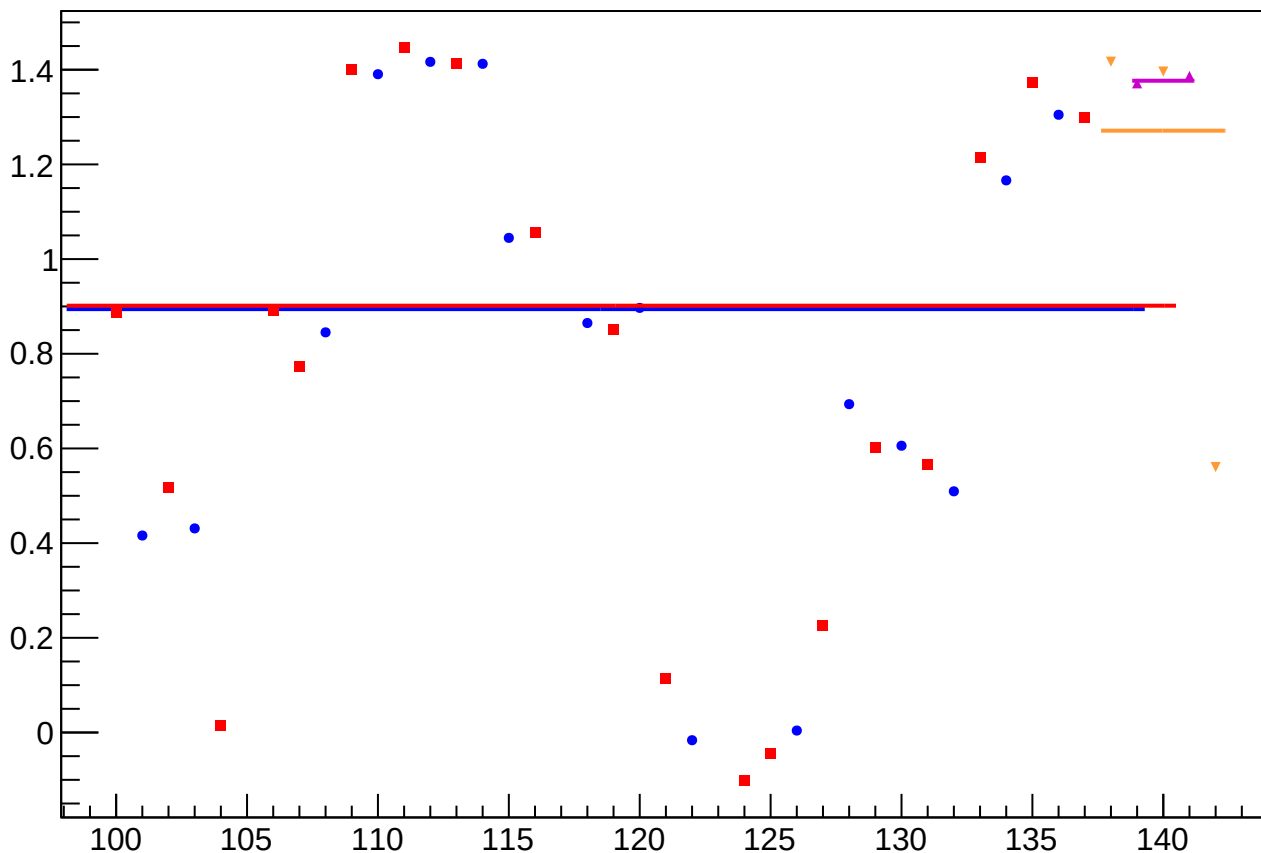
Right: 0.034+/-0.000 χ^2/NDF : 731644.4/34

In: 0.034+/-0.000 χ^2/NDF : 890879.0/17

Out: 0.035+/-0.000 χ^2/NDF : 394547.9/21

All: 0.034+/-0.000 χ^2/NDF : 1287270.0/39

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.894+/-0.000 χ^2/NDF : 12749707787.6/15

Left Out: 1.271+/-0.000 χ^2/NDF : 2833688212.8/2

Right Out: 0.902+/-0.000 χ^2/NDF : 17893051843.7/18

Left In: 1.377+/-0.000 χ^2/NDF : 1593079.3/1

Left: 1.324+/-0.000 χ^2/NDF : 2996035045.7/4

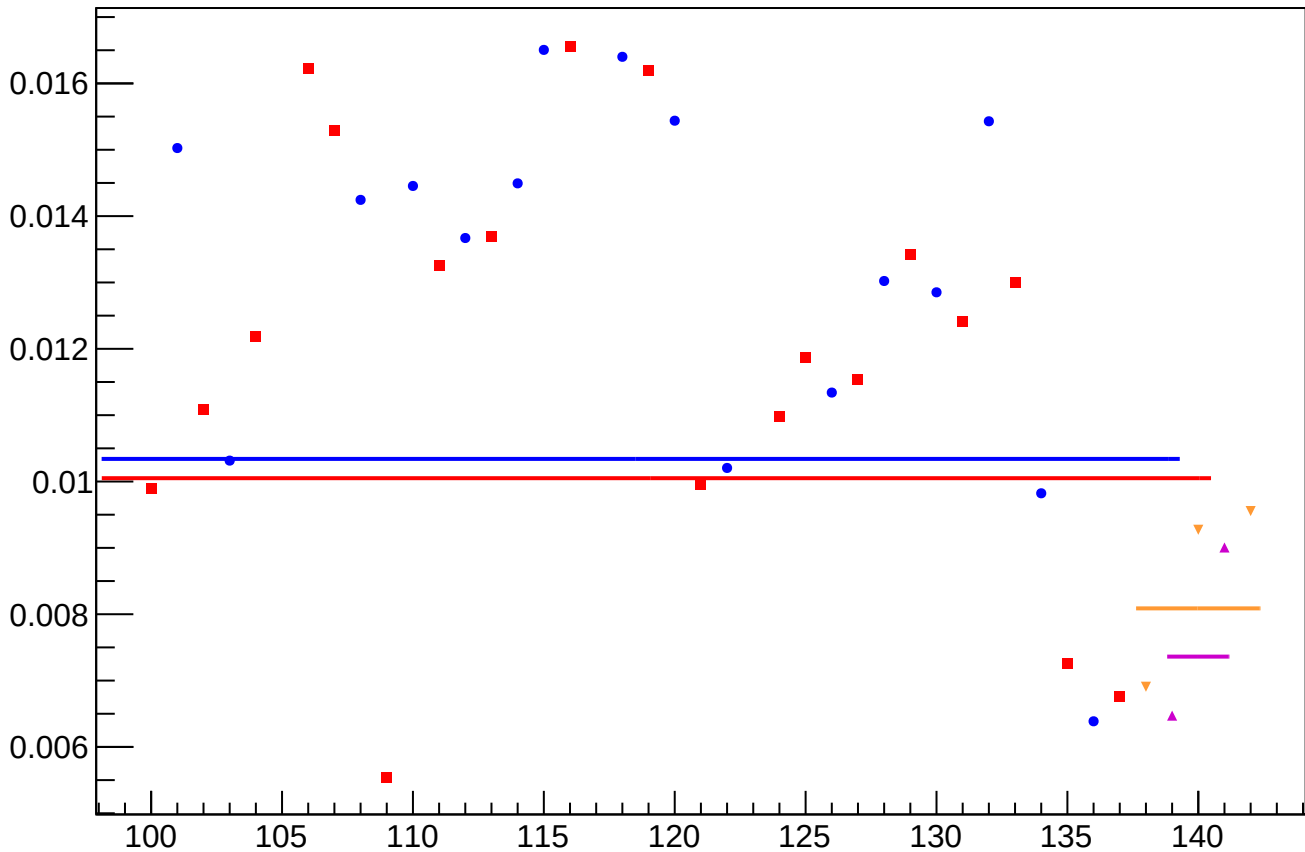
Right: 0.898+/-0.000 χ^2/NDF : 30644277544.6/34

In: 1.059+/-0.000 χ^2/NDF : 17179652533.3/17

Out: 1.021+/-0.000 χ^2/NDF : 23396967887.7/21

All: 1.040+/-0.000 χ^2/NDF : 40637684088.4/3

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000

χ^2/NDF : 1350446.6/15

Left Out: 0.008+/-0.000

χ^2/NDF : 87913.8/2

Right Out: 0.010+/-0.000

χ^2/NDF : 1336866.7/18

Left In: 0.007+/-0.000

χ^2/NDF : 84502.3/1

Left: 0.008+/-0.000

χ^2/NDF : 187684.8/4

Right: 0.010+/-0.000

χ^2/NDF : 2692207.1/34

In: 0.009+/-0.000

χ^2/NDF : 1772825.7/17

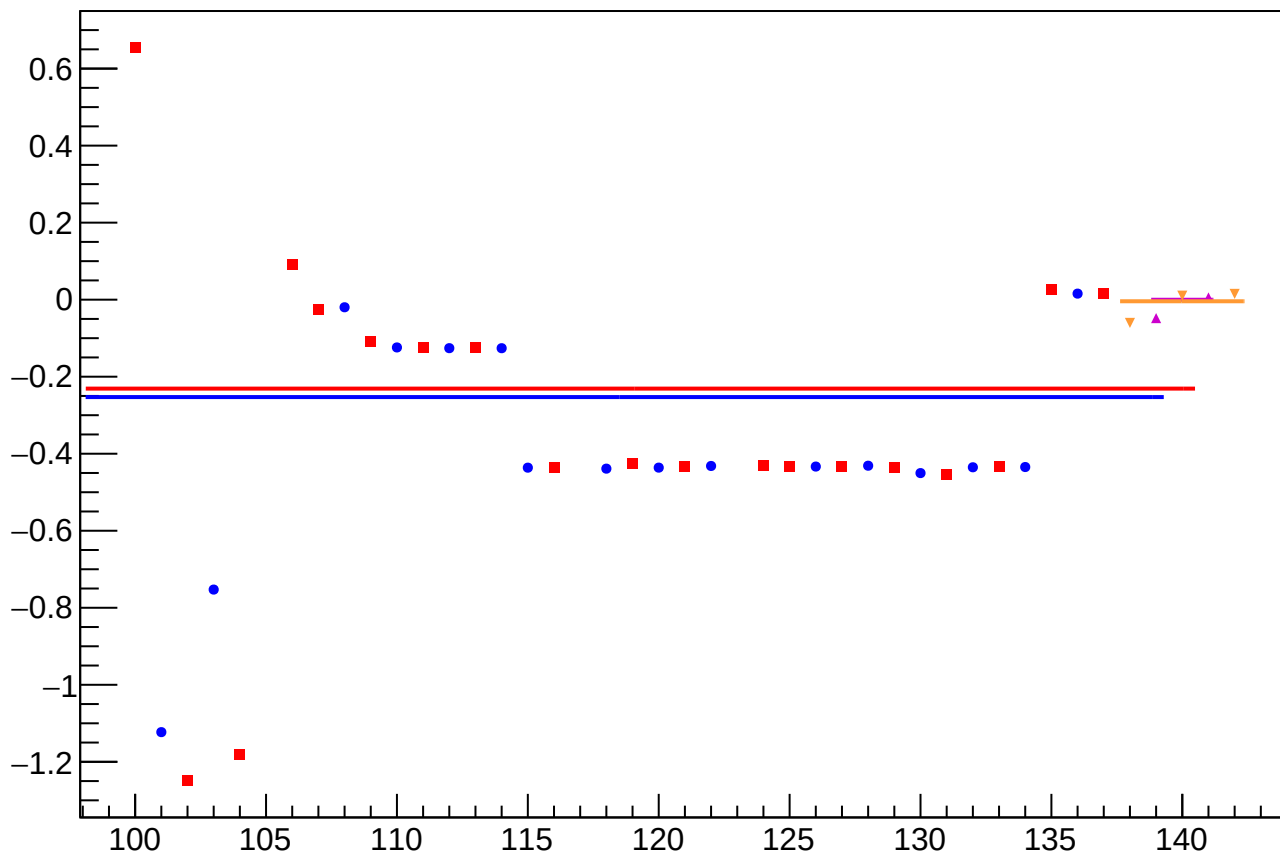
Out: 0.009+/-0.000

χ^2/NDF : 1575209.1/21

All: 0.009+/-0.000

χ^2/NDF : 3348735.9/39

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.253+/-0.000 χ^2/NDF : 2025242410.1/15

Left Out: -0.004+/-0.000 χ^2/NDF : 14944358.7/2

Right Out: -0.231+/-0.000 χ^2/NDF : 1808702536.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 2997694.4/1

Left: -0.003+/-0.000 χ^2/NDF : 18039858.5/4

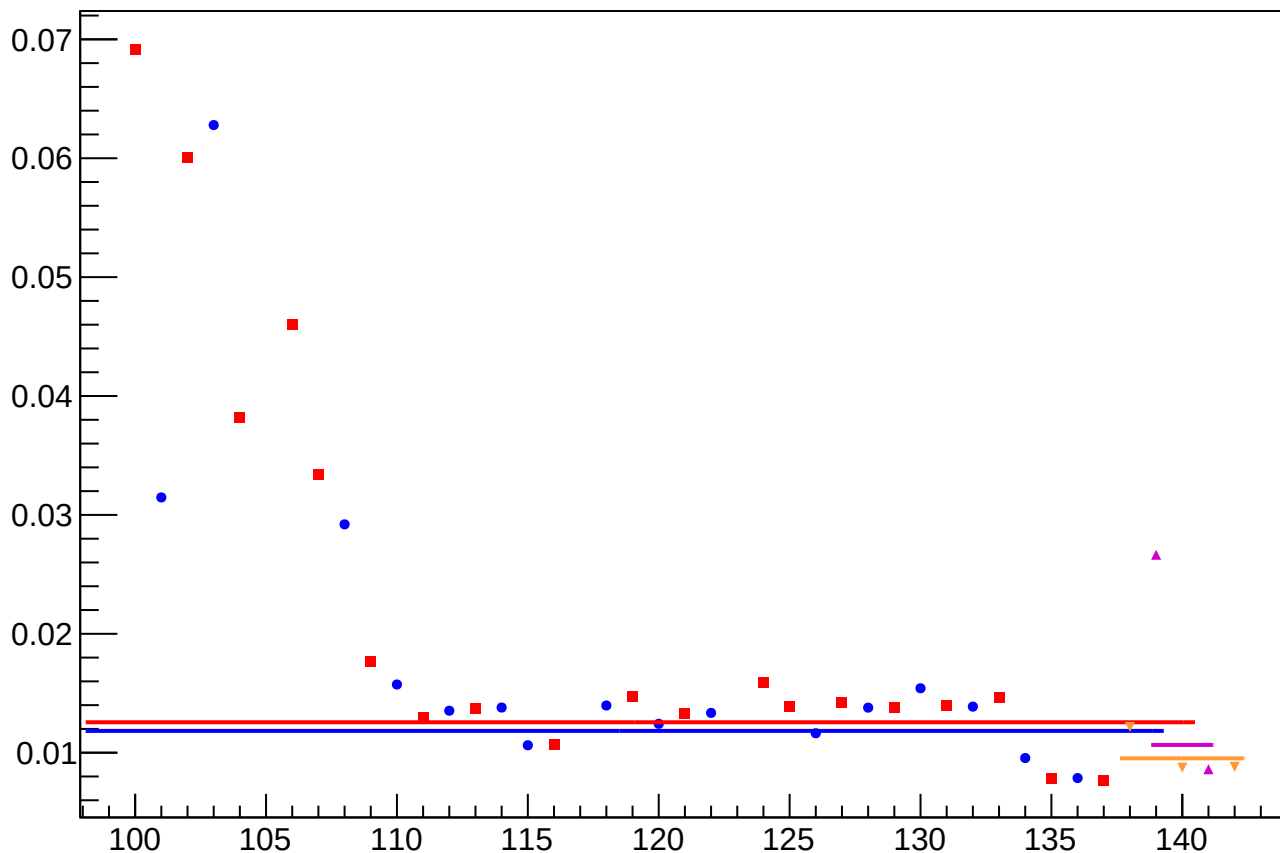
Right: -0.243+/-0.000 χ^2/NDF : 3842049612.8/34

In: -0.196+/-0.000 χ^2/NDF : 2540140459.3/17

Out: -0.154+/-0.000 χ^2/NDF : 2379158147.6/21

All: -0.174+/-0.000 χ^2/NDF : 4960904669.7/3

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1942550.6/15

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:65591.6/2

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2217419.3/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:676261.8/1

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 757951.6/4

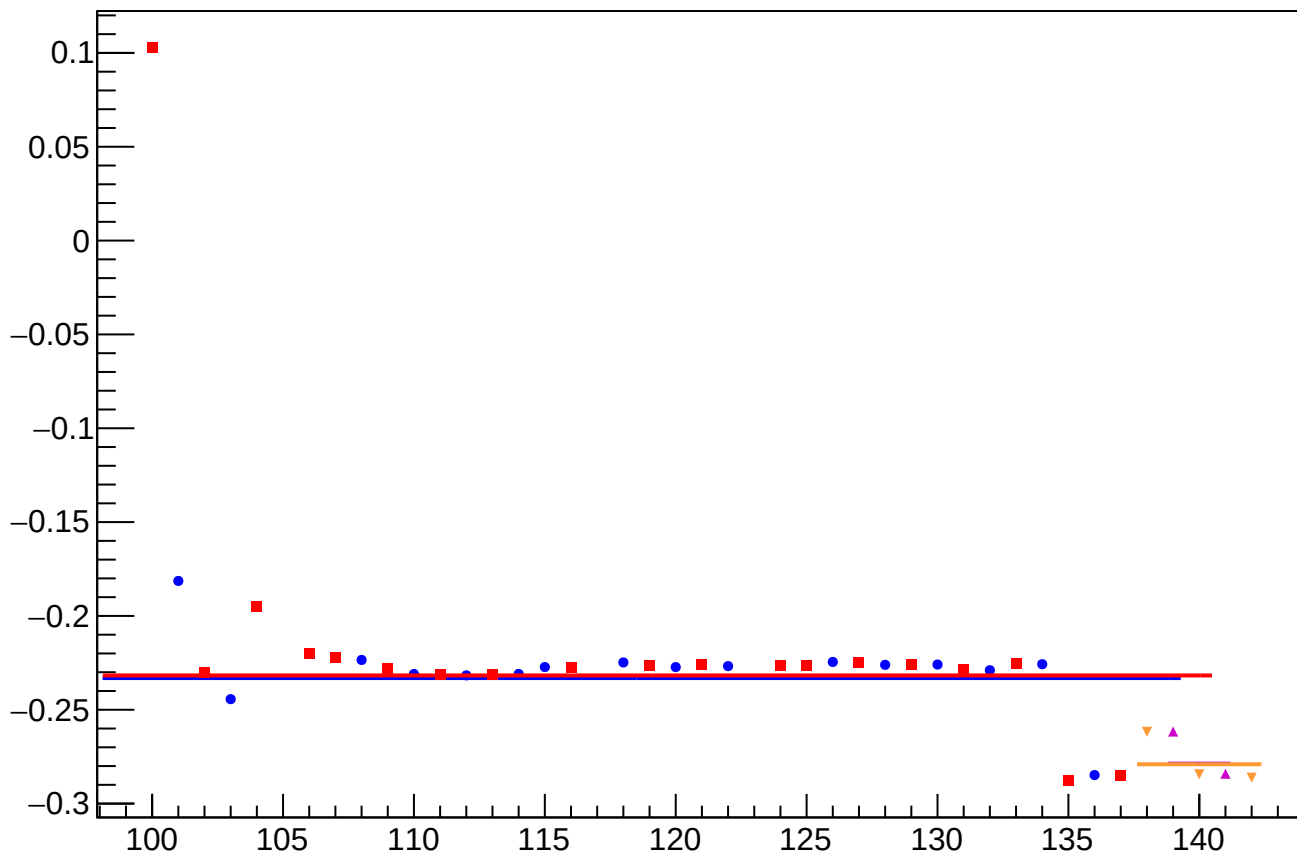
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 4177625.3/34

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2641203.2/17

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2481863.6/21

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 5123140.8/39

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.233+/-0.000 χ^2/NDF : 199059878.3/15

Left Out: -0.279+/-0.000 χ^2/NDF : 8663398.8/2

Right Out: -0.232+/-0.000 χ^2/NDF : 287244778.7/18

Left In: -0.279+/-0.000 χ^2/NDF : 5089024.7/1

Left: -0.279+/-0.000 χ^2/NDF : 13756241.9/4

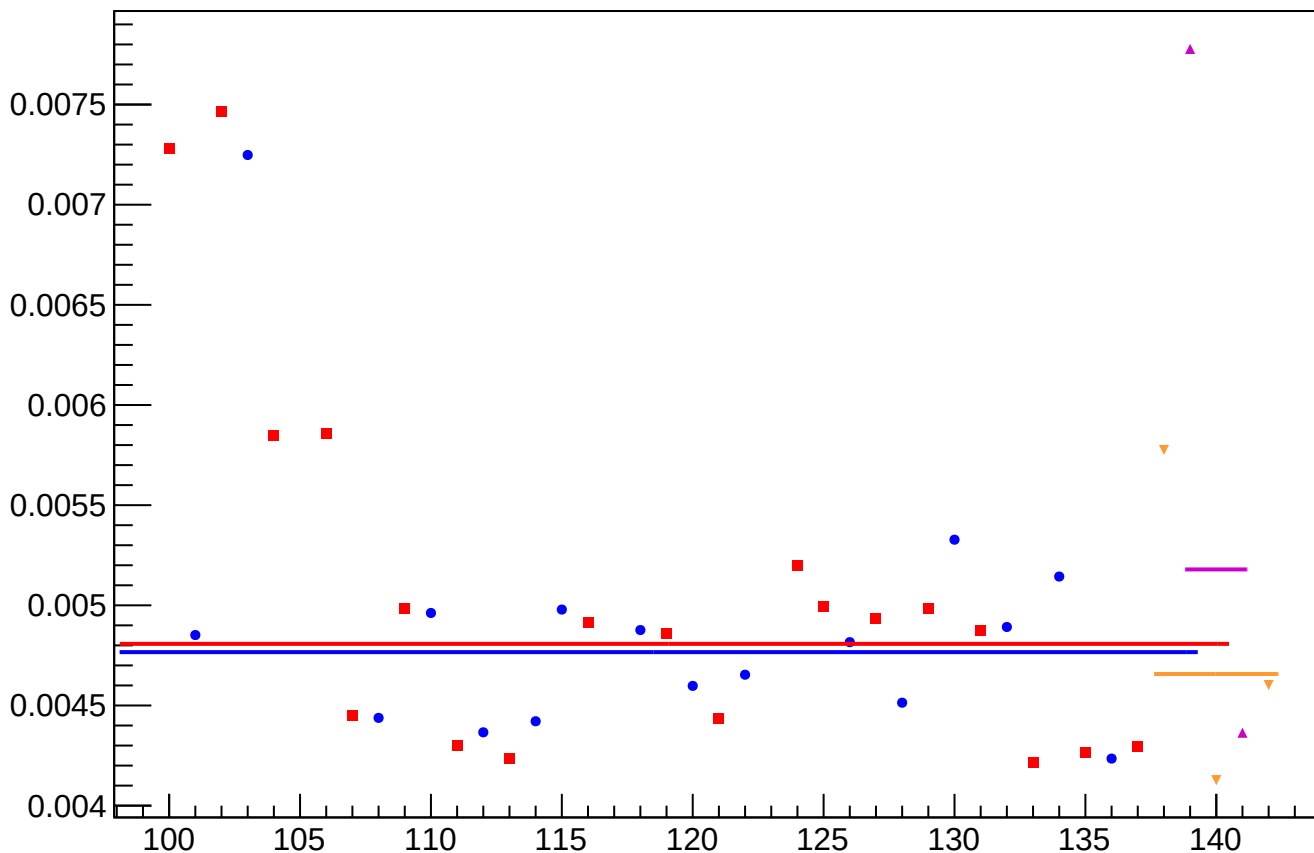
Right: -0.232+/-0.000 χ^2/NDF : 486580881.0/34

In: -0.241+/-0.000 χ^2/NDF : 300546355.8/17

Out: -0.242+/-0.000 χ^2/NDF : 442206868.3/21

All: -0.242+/-0.000 χ^2/NDF : 743335086.9/39

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 191759.7/15

Left Out: 0.005+/-0.000 χ^2/NDF : 78313.8/2

Right Out: 0.005+/-0.000 χ^2/NDF : 293738.0/18

Left In: 0.005+/-0.000 χ^2/NDF : 234830.3/1

Left: 0.005+/-0.000 χ^2/NDF : 331361.6/4

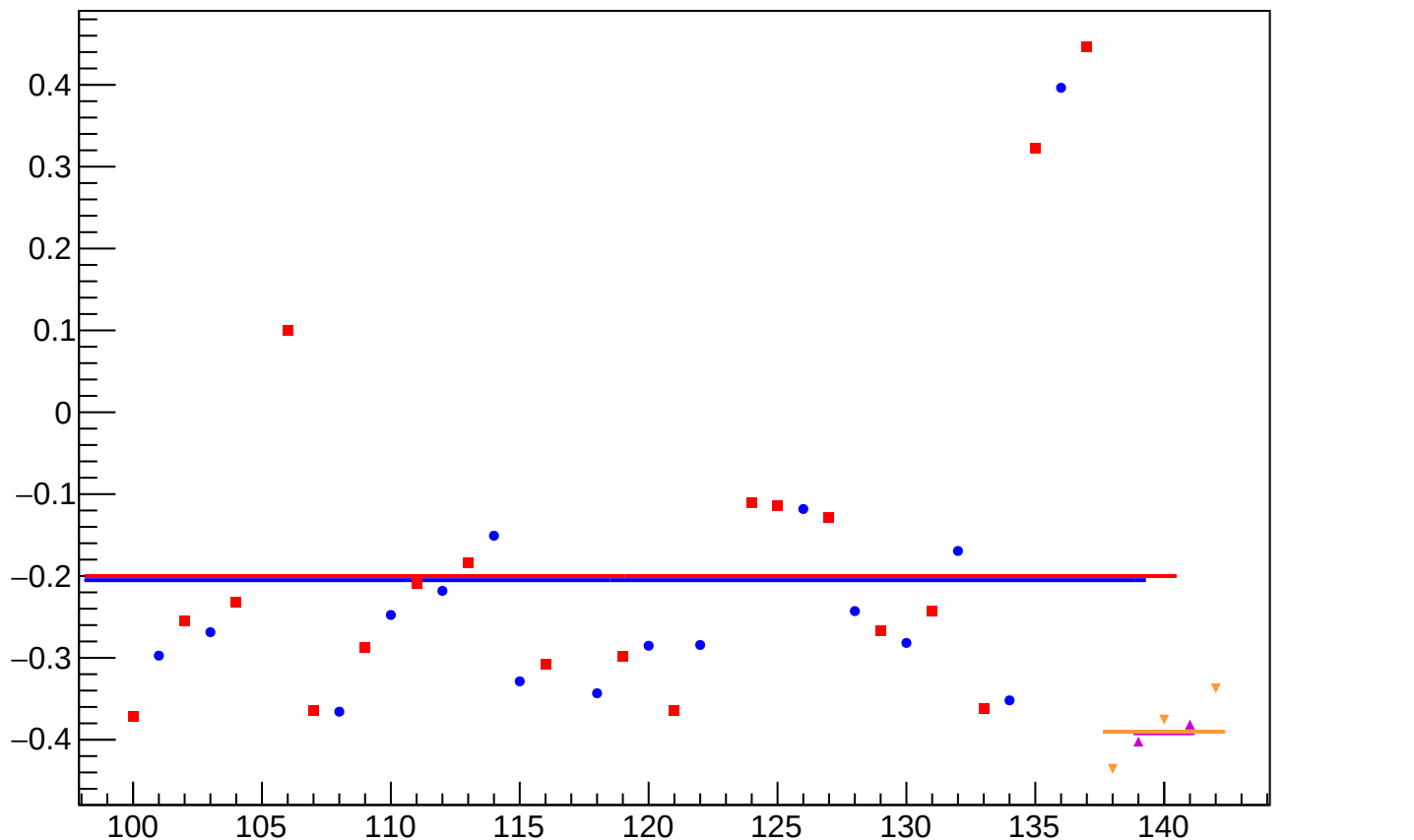
Right: 0.005+/-0.000 χ^2/NDF : 485985.9/34

In: 0.005+/-0.000 χ^2/NDF : 442392.8/17

Out: 0.005+/-0.000 χ^2/NDF : 375004.1/21

All: 0.005+/-0.000 χ^2/NDF : 818682.9/39

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.205 ± 0.000 χ^2/NDF : 6189271855.3/15

Left Out: -0.390 ± 0.000 χ^2/NDF : 115805985.1/2

Right Out: -0.200 ± 0.000 χ^2/NDF : 5249978819.5/18

Left In: -0.392 ± 0.000 χ^2/NDF : 7005920.7/1

Left: -0.391 ± 0.000 χ^2/NDF : 122947400.0/4

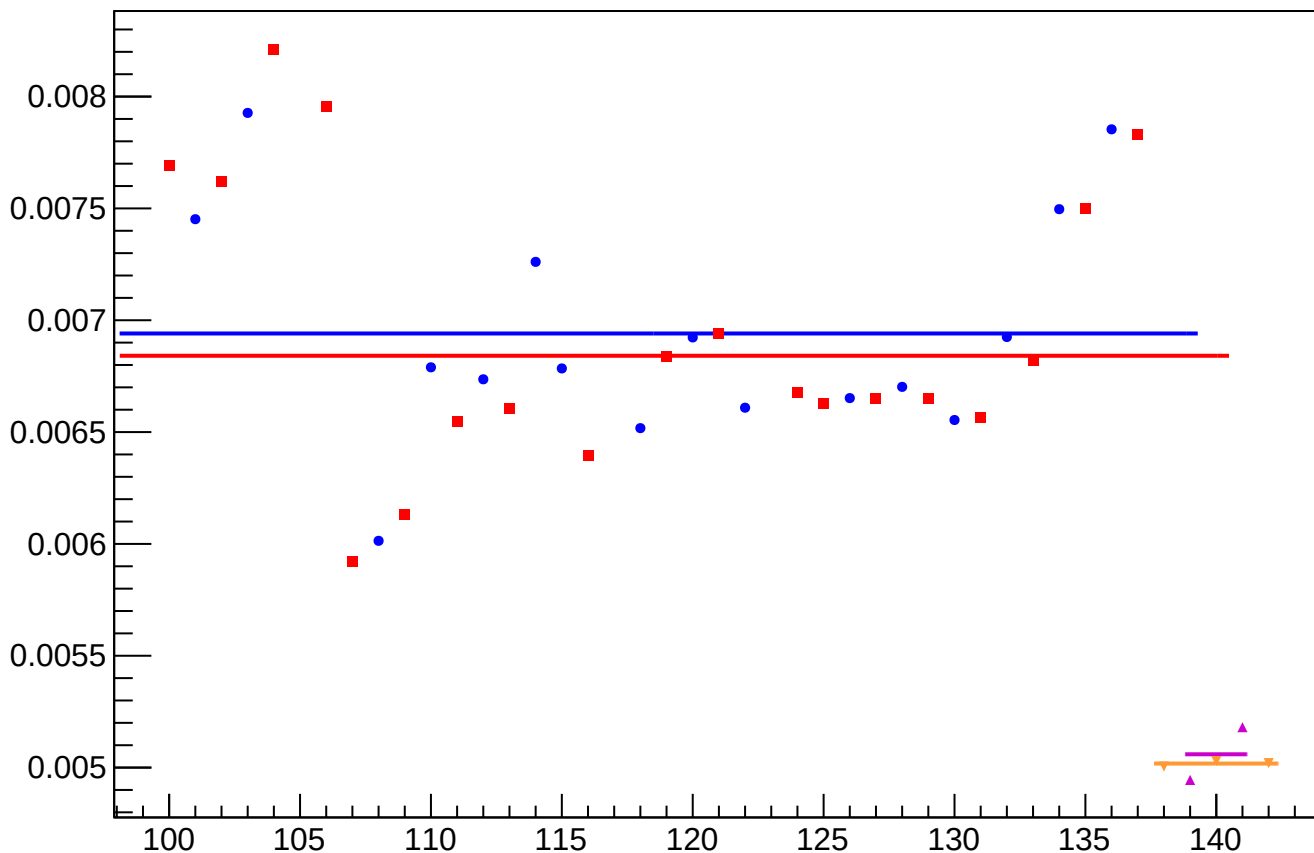
Right: -0.203 ± 0.000 χ^2/NDF : 11441176033.3/34

In: -0.263 ± 0.000 χ^2/NDF : 7775777567.2/17

Out: -0.264 ± 0.000 χ^2/NDF : 7253486169.7/21

All: -0.264 ± 0.000 χ^2/NDF : 15029513681.9/42

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 85159.0/15

Left Out: 0.005+/-0.000 χ^2/NDF : 18.9/2

Right Out: 0.007+/-0.000 χ^2/NDF : 99819.4/18

Left In: 0.005+/-0.000 χ^2/NDF : 1817.3/1

Left: 0.005+/-0.000 χ^2/NDF : 1959.4/4

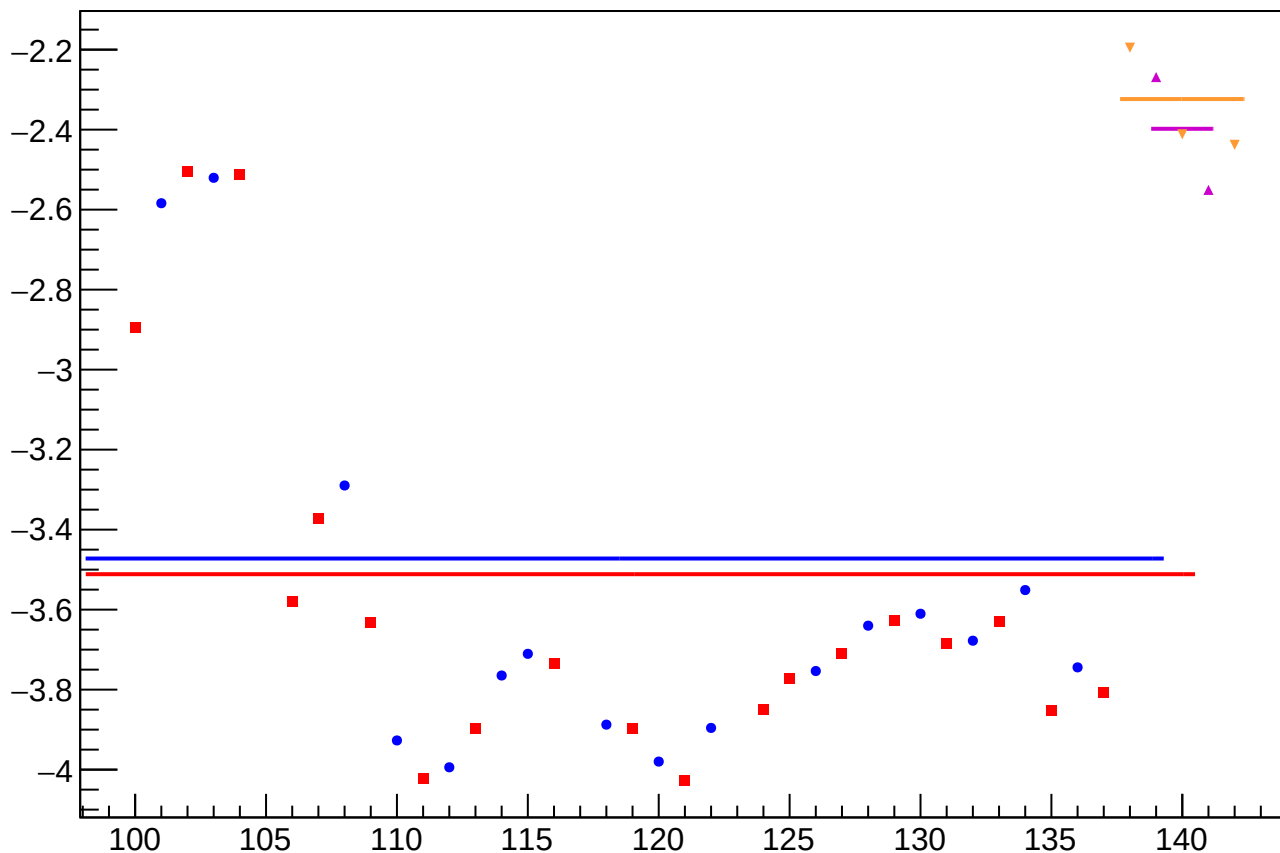
Right: 0.007+/-0.000 χ^2/NDF : 186467.2/34

In: 0.006+/-0.000 χ^2/NDF : 406676.5/17

Out: 0.006+/-0.000 χ^2/NDF : 446996.2/21

All: 0.006+/-0.000 χ^2/NDF : 857737.1/39

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.472+/-0.000 χ^2/NDF : 29592353445.4/15

Left Out: -2.324+/-0.000 χ^2/NDF : 248233185.9/2

Right Out: -3.511+/-0.000 χ^2/NDF : 29716501733.6/18

Left In: -2.398+/-0.000 χ^2/NDF : 318060386.9/1

Left: -2.357+/-0.000 χ^2/NDF : 615456007.9/4

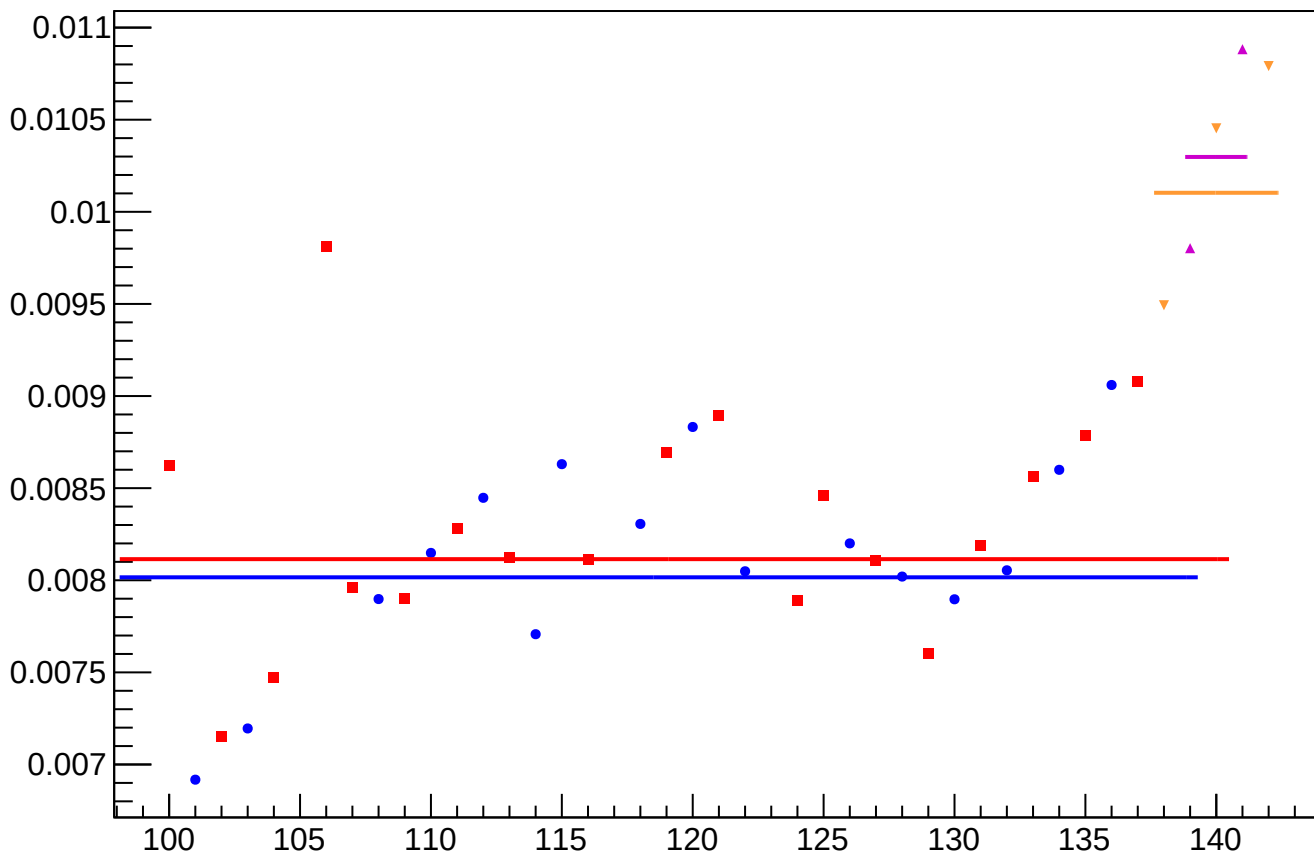
Right: -3.492+/-0.000 χ^2/NDF : 59392057159.0/34

In: -3.334+/-0.000 χ^2/NDF : 46103861530.5/17

Out: -3.327+/-0.000 χ^2/NDF : 53631570664.1/21

All: -3.330+/-0.000 χ^2/NDF : 99738185339.2/42

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 86232.2/15

Left Out: 0.010+/-0.000 χ^2/NDF :11709.1/2

Right Out: 0.008+/-0.000 χ^2/NDF : 71067.5/18

Left In: 0.010+/-0.000 χ^2/NDF :9333.0/1

Left: 0.010+/-0.000 χ^2/NDF : 21714.8/4

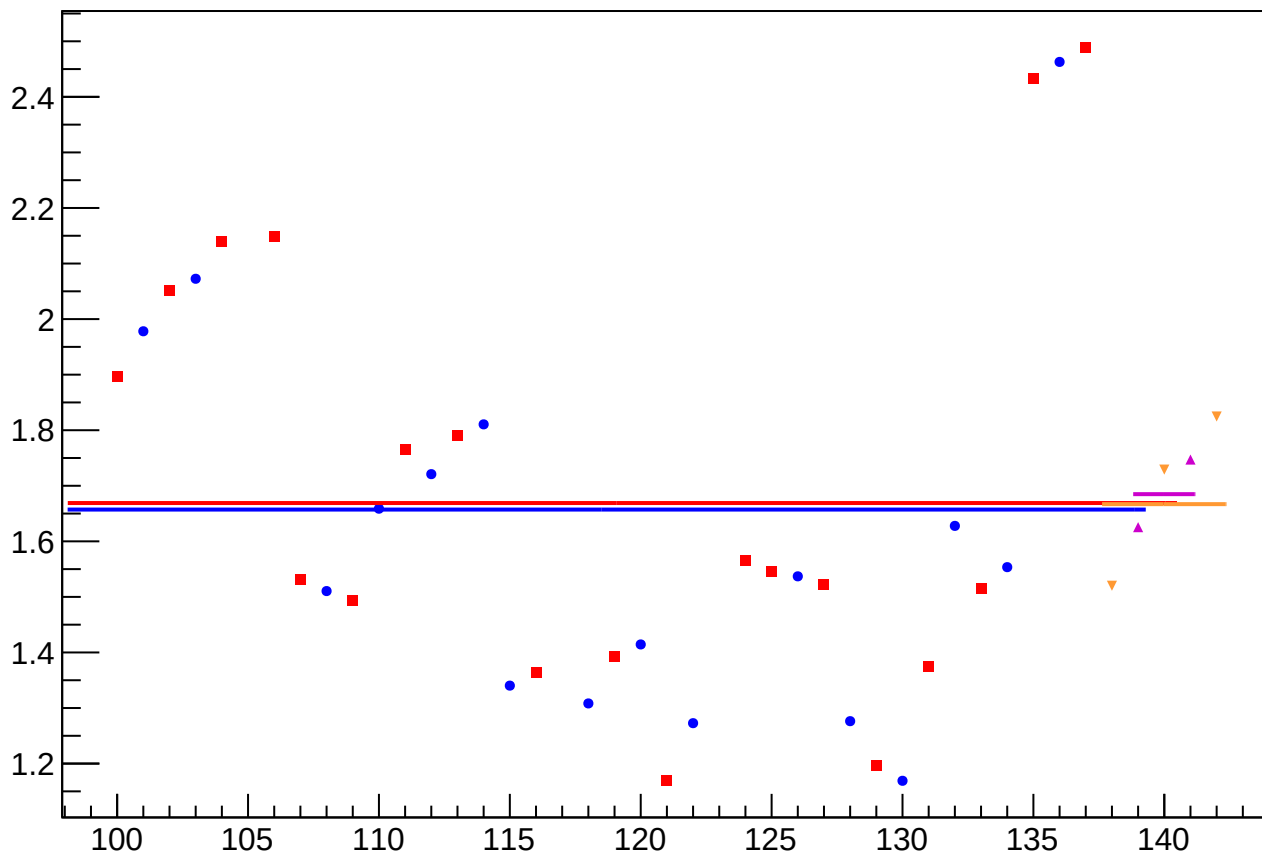
Right: 0.008+/-0.000 χ^2/NDF : 158353.0/34

In: 0.008+/-0.000 χ^2/NDF :241658.2/17

Out: 0.008+/-0.000 χ^2/NDF :215445.4/21

All: 0.008+/-0.000 χ^2/NDF : 458713.9/39

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.657+/-0.000 χ^2/NDF : 6666154117.3/15

Left Out: 1.667+/-0.000 χ^2/NDF : 243763287.4/2

Right Out: 1.669+/-0.000 χ^2/NDF : 6357589265.5/18

Left In: 1.685+/-0.000 χ^2/NDF : 51529960.7/1

Left: 1.675+/-0.000 χ^2/NDF : 297730228.9/4

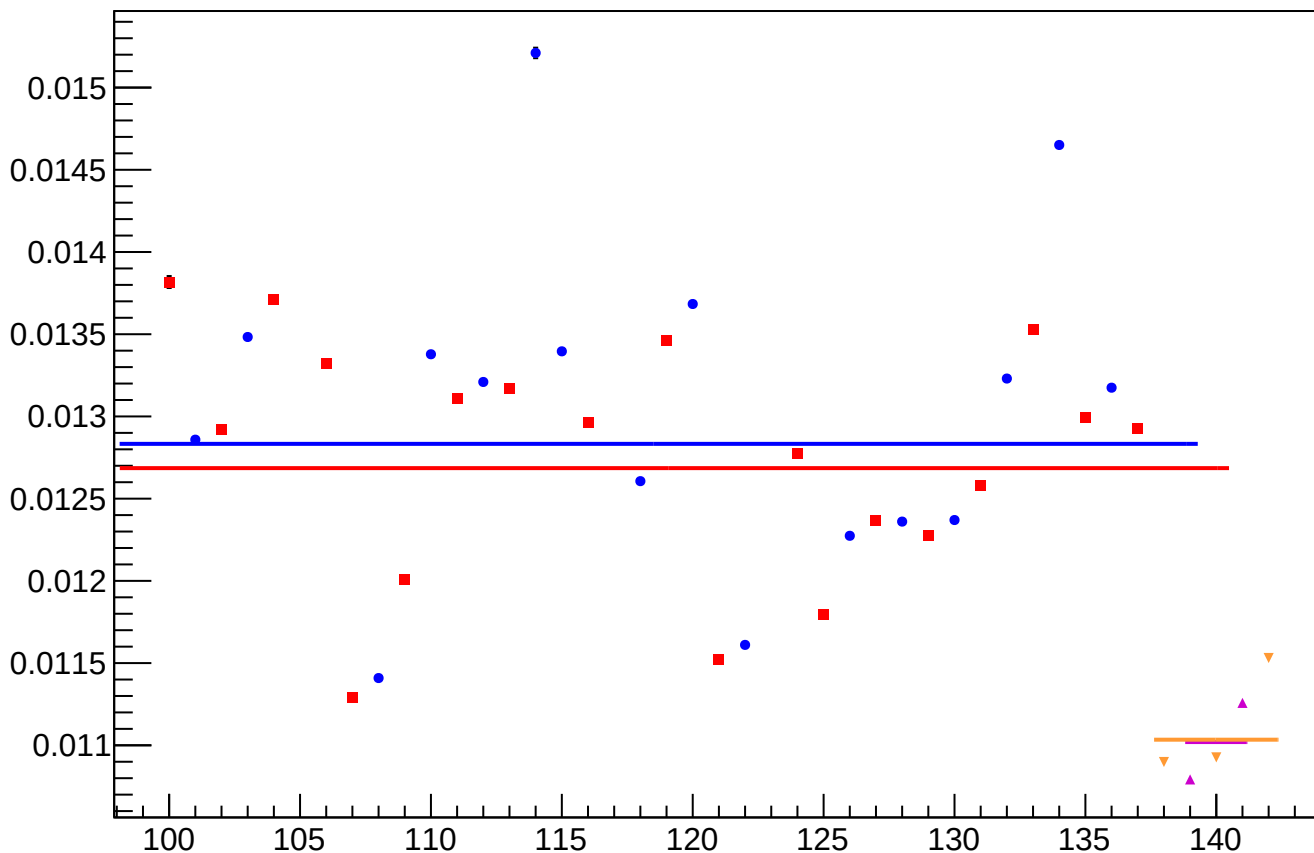
Right: 1.663+/-0.000 χ^2/NDF : 13026763419.8/34

In: 1.664+/-0.000 χ^2/NDF : 6725764514.2/17

Out: 1.668+/-0.000 χ^2/NDF : 6601400266.9/21

All: 1.666+/-0.000 χ^2/NDF : 13327731054.3/3

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 52516.5/15

Left Out: 0.011+/-0.000 χ^2/NDF :1982.1/2

Right Out: 0.013+/-0.000 χ^2/NDF : 43279.9/18

Left In: 0.011+/-0.000 χ^2/NDF :1508.1/1

Left: 0.011+/-0.000 χ^2/NDF : 3493.3/4

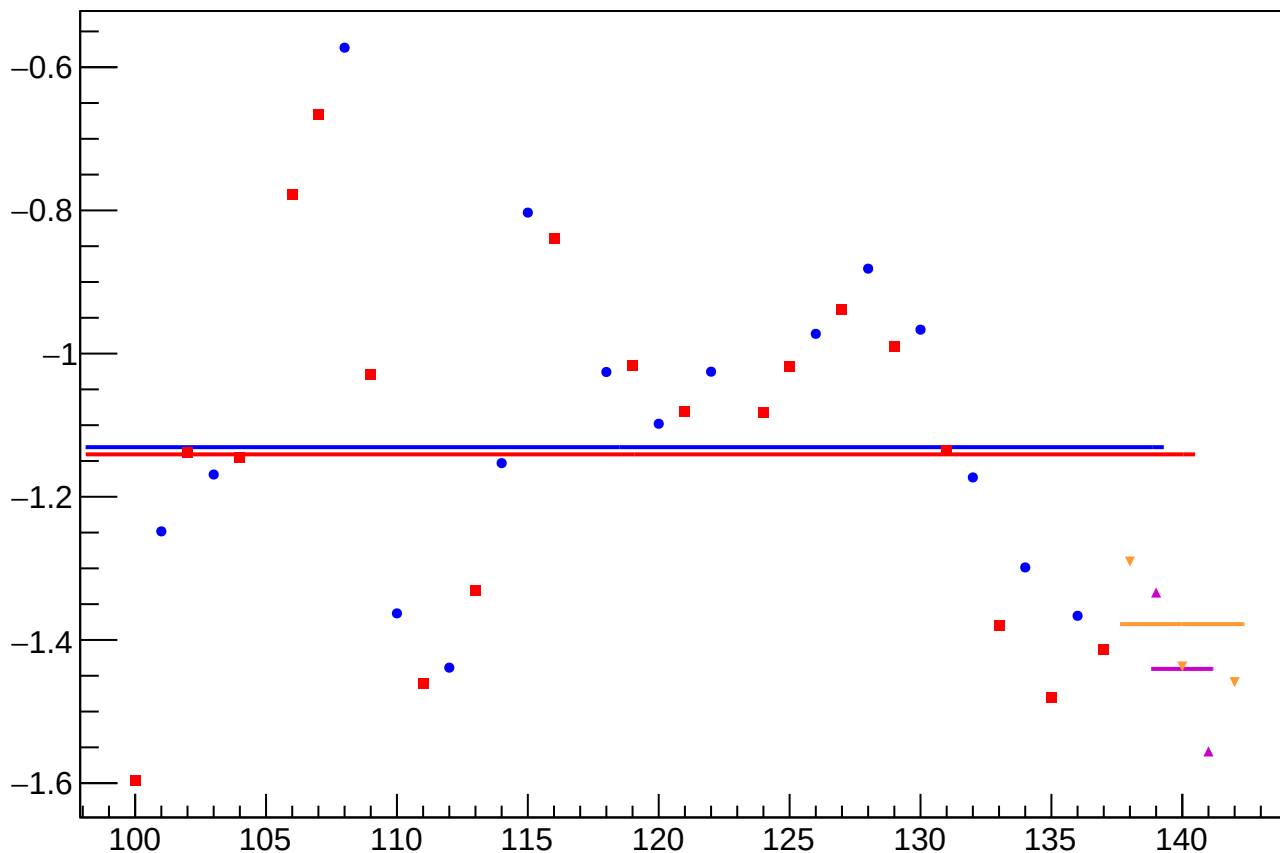
Right: 0.013+/-0.000 χ^2/NDF : 96748.3/34

In: 0.012+/-0.000 χ^2/NDF :123068.6/17

Out: 0.012+/-0.000 χ^2/NDF :110862.2/21

All: 0.012+/-0.000 χ^2/NDF : 235148.2/39

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.131+/-0.000

χ^2/NDF : 3790121991.7/15

Left: -1.406+/-0.000

χ^2/NDF : 514577189.4/4

Left Out: -1.378+/-0.000

χ^2/NDF : 171491351.1/2

Right: -1.136+/-0.000

χ^2/NDF : 7338628665.5/34

Right Out: -1.141+/-0.000

χ^2/NDF : 3544012262.4/18

In: -1.196+/-0.000

χ^2/NDF : 5877131719.8/17

Out: -1.200+/-0.000

χ^2/NDF : 4963945923.5/21

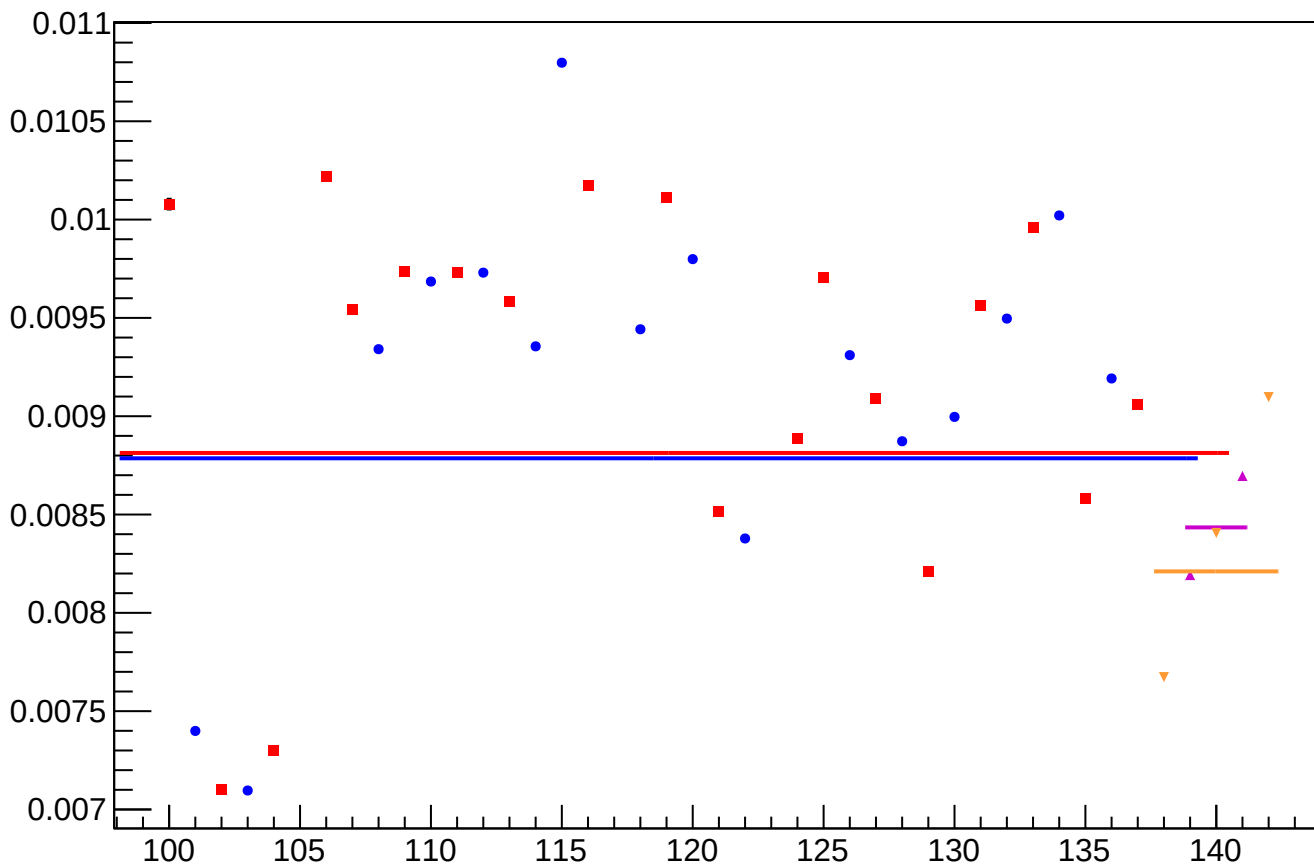
Left In: -1.440+/-0.000

χ^2/NDF : 291581663.1/1

All: -1.198+/-0.000

χ^2/NDF : 10841843020.6/

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 173477.6/15

Left Out: 0.008+/-0.000 χ^2/NDF :16273.4/2

Right Out: 0.009+/-0.000 χ^2/NDF : 204443.3/18

Left In: 0.008+/-0.000 χ^2/NDF :3009.0/1

Left: 0.008+/-0.000 χ^2/NDF : 20598.0/4

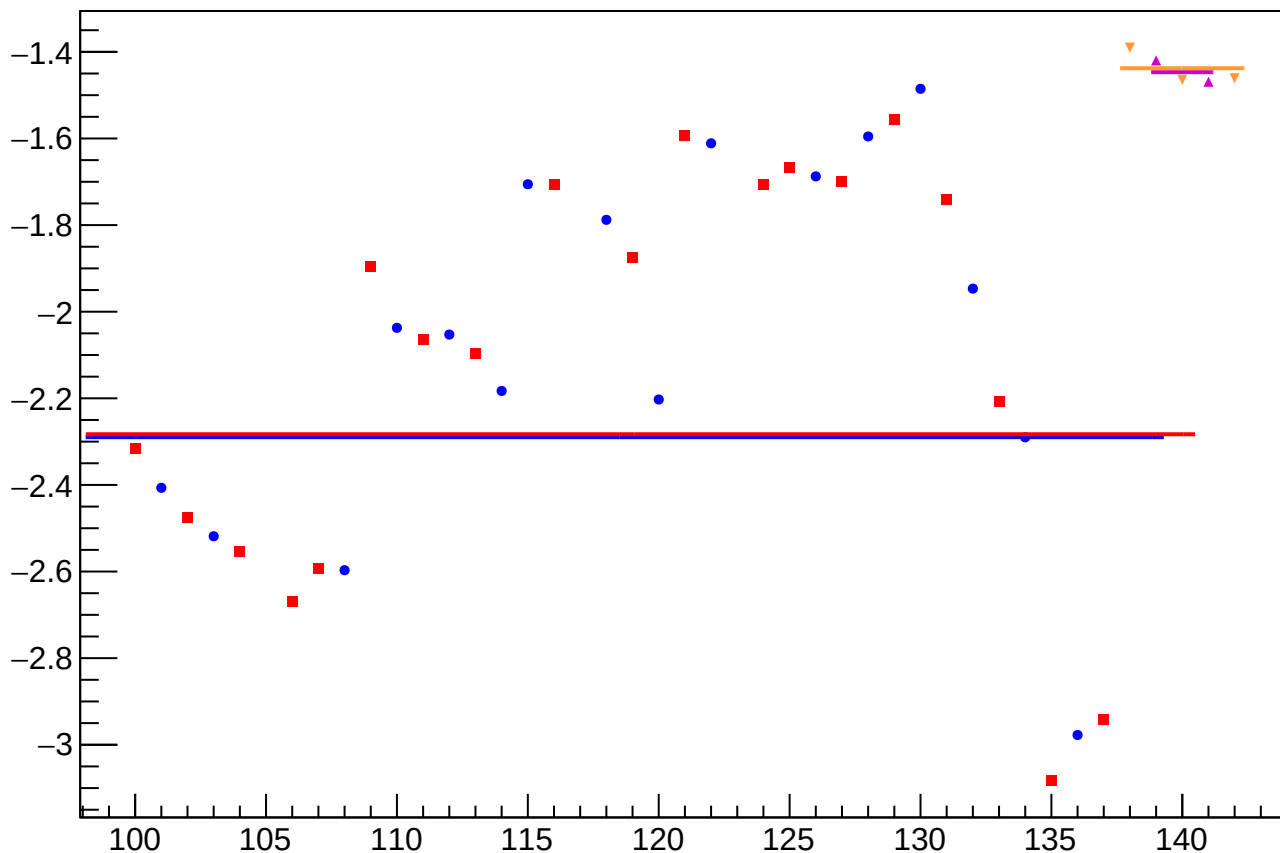
Right: 0.009+/-0.000 χ^2/NDF : 377987.0/34

In: 0.009+/-0.000 χ^2/NDF :181108.3/17

Out: 0.009+/-0.000 χ^2/NDF :236823.0/21

All: 0.009+/-0.000 χ^2/NDF : 418200.9/39

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.290+/-0.000 χ^2/NDF : 15222817978.4/15

Left Out: -1.438+/-0.000 χ^2/NDF : 27233199.7/2

Right Out: -2.283+/-0.000 χ^2/NDF : 17032219519.1/18

Left In: -1.447+/-0.000 χ^2/NDF : 11035804.7/1

Left: -1.442+/-0.000 χ^2/NDF : 39098764.3/4

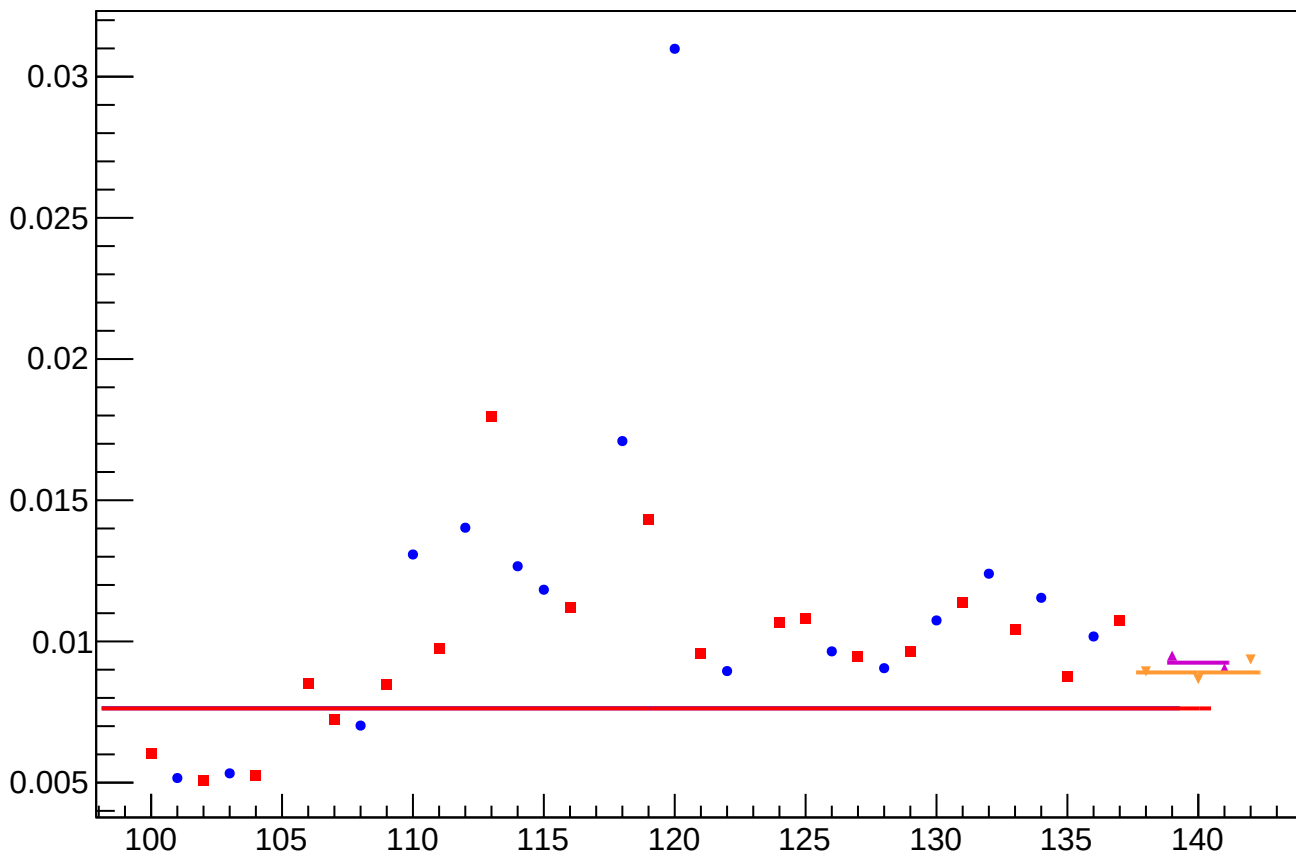
Right: -2.286+/-0.000 χ^2/NDF : 32257076383.6/34

In: -2.143+/-0.000 χ^2/NDF : 25988966273.1/17

Out: -2.122+/-0.000 χ^2/NDF : 30039355168.0/21

All: -2.132+/-0.000 χ^2/NDF : 56054381623.6/39

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1710797.2/15

Left Out: 0.009+/-0.000 χ^2/NDF :3083.4/2

Right Out: 0.008+/-0.000 χ^2/NDF : 1317740.1/18

Left In: 0.009+/-0.000 χ^2/NDF :1852.6/1

Left: 0.009+/-0.000 χ^2/NDF : 7351.0/4

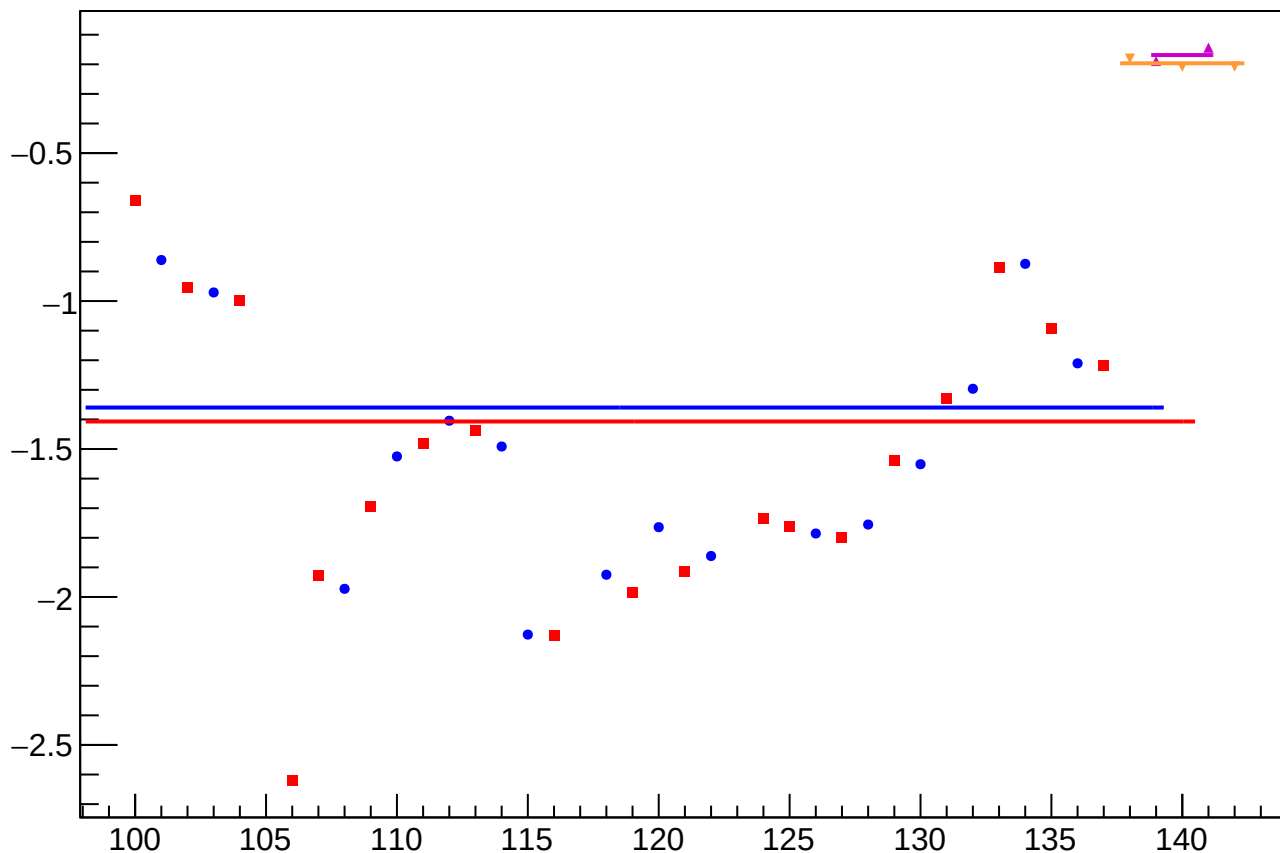
Right: 0.008+/-0.000 χ^2/NDF : 3028539.8/34

In: 0.008+/-0.000 χ^2/NDF :1791640.4/17

Out: 0.008+/-0.000 χ^2/NDF :1379843.7/21

All: 0.008+/-0.000 χ^2/NDF : 3171684.9/39

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.360+/-0.000 χ^2/NDF : 21491965614.5/15

Left Out: -0.197+/-0.000 χ^2/NDF : 18713673.8/2

Right Out: -1.407+/-0.000 χ^2/NDF : 29835610413.0/18

Left In: -0.169+/-0.000 χ^2/NDF : 40266852.2/1

Left: -0.184+/-0.000 χ^2/NDF : 93268286.1/4

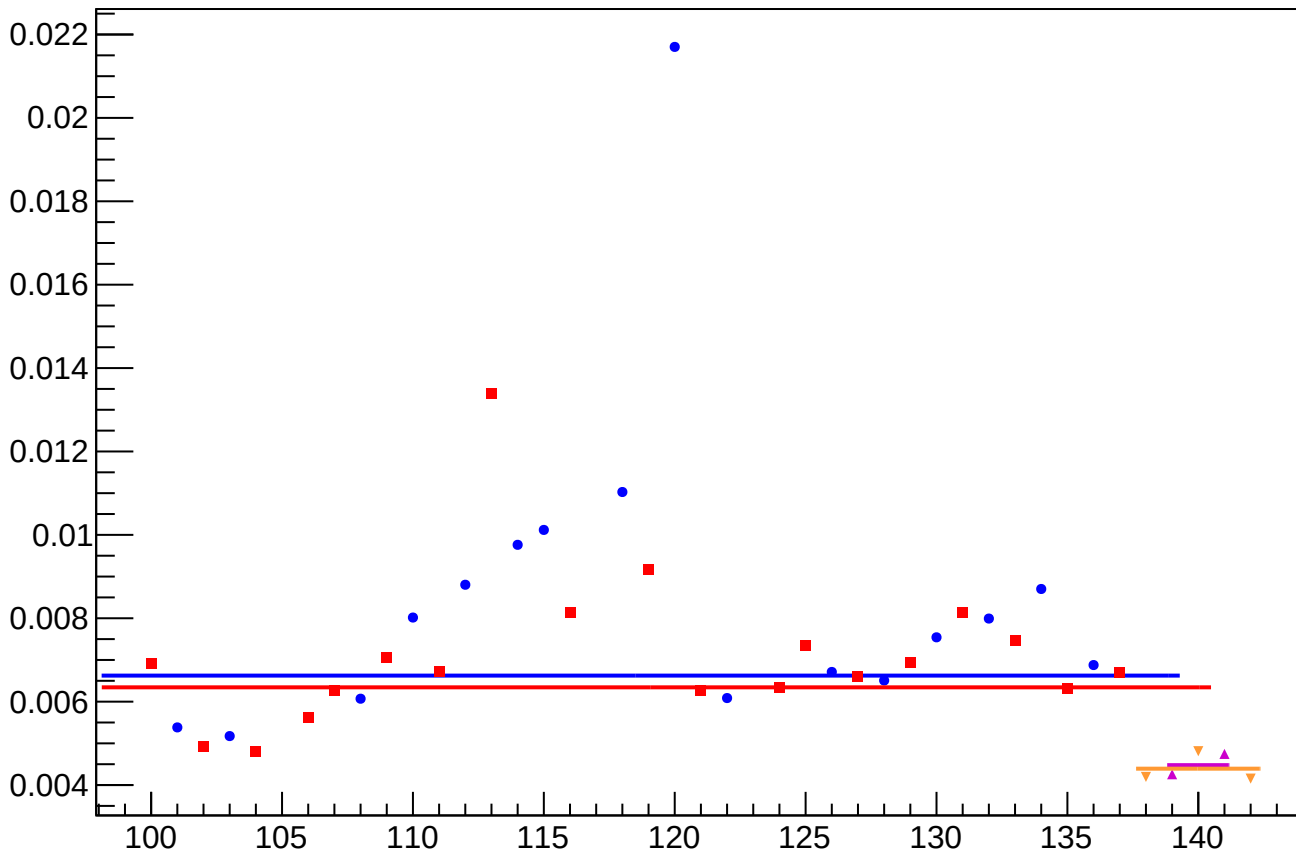
Right: -1.385+/-0.000 χ^2/NDF : 51484688313.9/34

In: -0.910+/-0.000 χ^2/NDF : 92144825289.3/17

Out: -0.930+/-0.000 χ^2/NDF : 117643389235.5/21

All: -0.921+/-0.000 χ^2/NDF : 209832713284.8

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 693783.1/15

Left Out: 0.004+/-0.000 χ^2/NDF :17628.3/2

Right Out: 0.006+/-0.000 χ^2/NDF : 529170.9/18

Left In: 0.004+/-0.000 χ^2/NDF :9410.4/1

Left: 0.004+/-0.000 χ^2/NDF : 27673.6/4

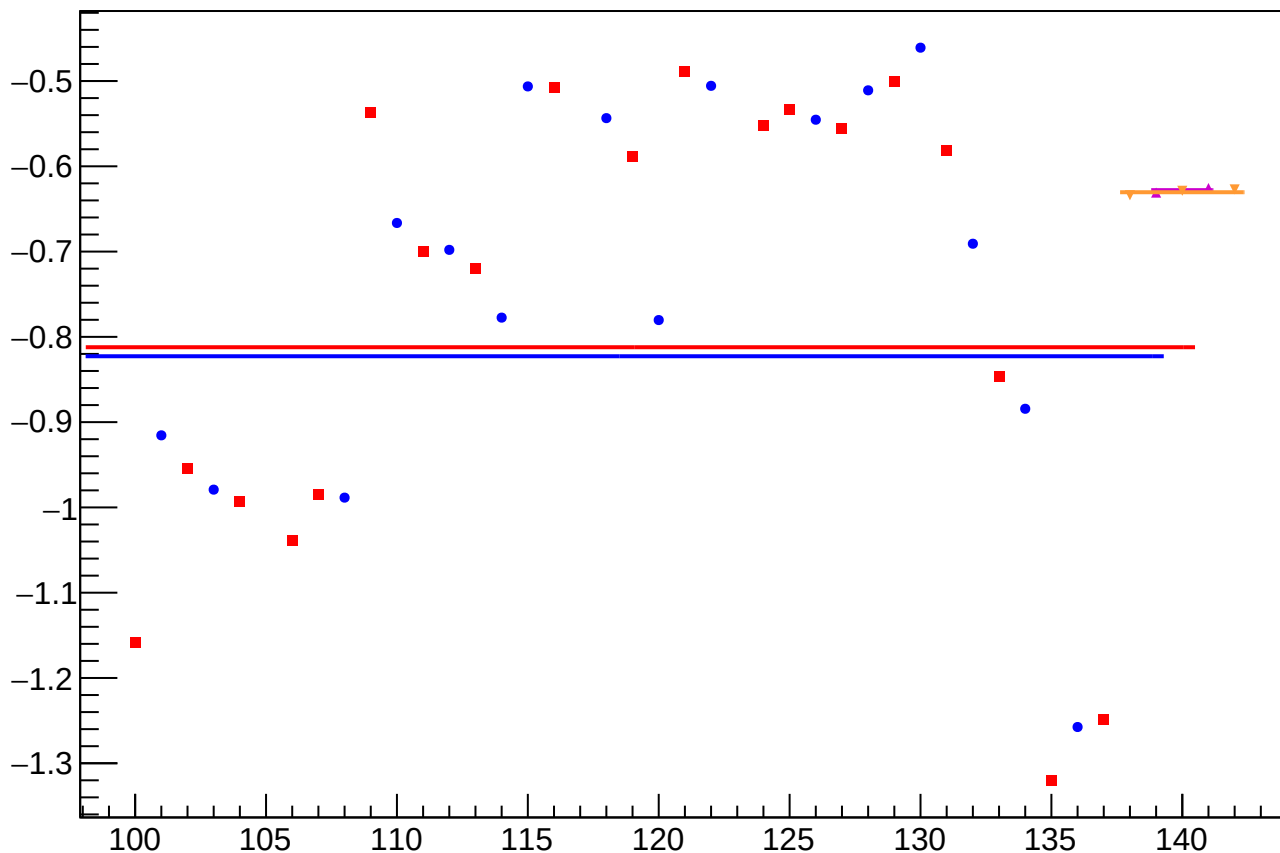
Right: 0.006+/-0.000 χ^2/NDF : 1234142.9/34

In: 0.006+/-0.000 χ^2/NDF :1162211.1/17

Out: 0.006+/-0.000 χ^2/NDF :1002818.9/21

All: 0.006+/-0.000 χ^2/NDF : 2178236.3/39

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.823+/-0.000

χ^2/NDF : 12226599844.5/15

Left: -0.629+/-0.000

χ^2/NDF : 795635.7/4

Left Out: -0.630+/-0.000

χ^2/NDF : 395129.4/2

Right: -0.817+/-0.000

χ^2/NDF : 27062819602.4/34

Right Out: -0.812+/-0.000

χ^2/NDF : 14825441332.4/18

In: -0.789+/-0.000

χ^2/NDF : 13424343517.2/17

Out: -0.777+/-0.000

χ^2/NDF : 16102468784.8/21

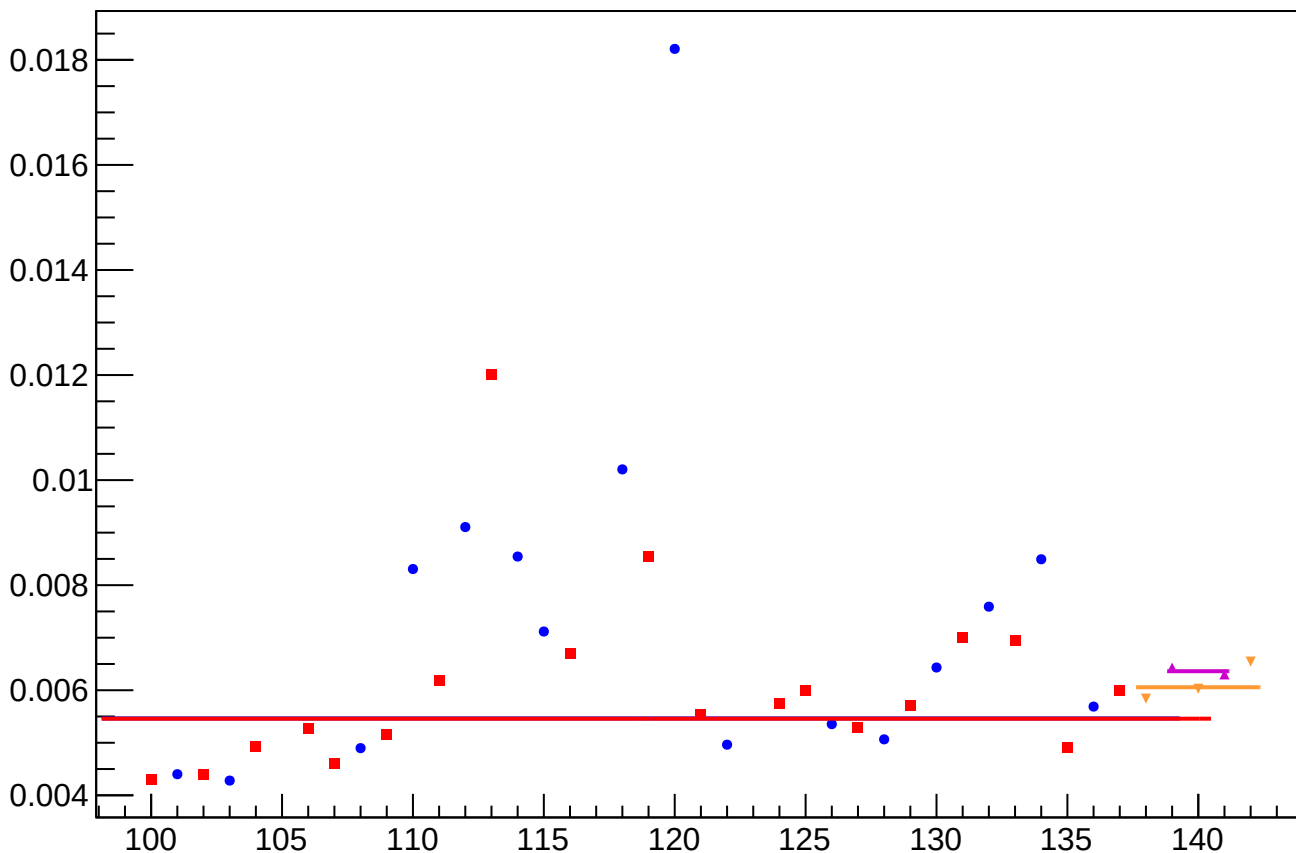
Left In: -0.628+/-0.000

χ^2/NDF : 272960.2/1

All: -0.783+/-0.000

χ^2/NDF : 29544063354.2/2

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 961483.6/15

Left Out: 0.006+/-0.000 χ^2/NDF : 6181.9/2

Right Out: 0.005+/-0.000 χ^2/NDF : 507792.7/18

Left In: 0.006+/-0.000 χ^2/NDF : 320.8/1

Left: 0.006+/-0.000 χ^2/NDF : 10446.3/4

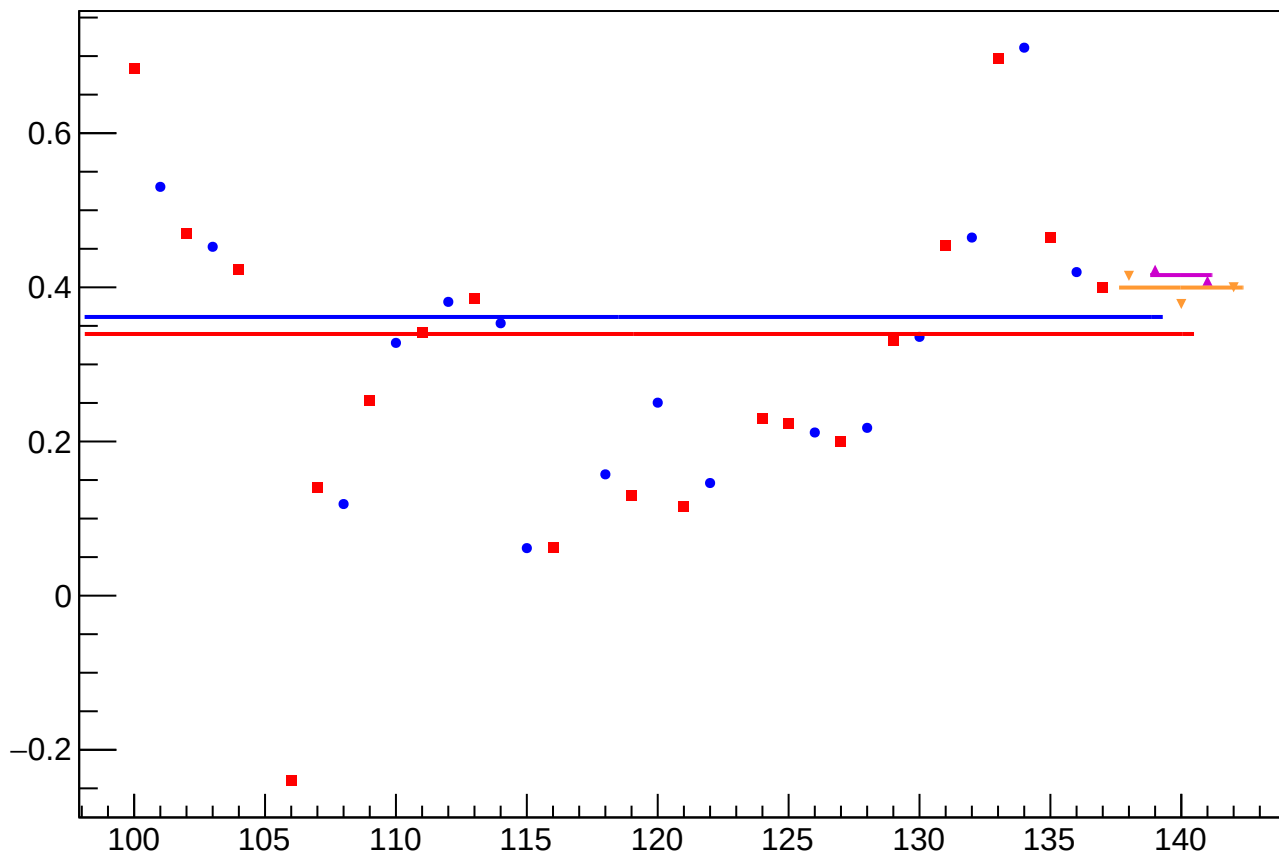
Right: 0.005+/-0.000 χ^2/NDF : 1469281.0/34

In: 0.006+/-0.000 χ^2/NDF : 1012787.1/17

Out: 0.006+/-0.000 χ^2/NDF : 541670.0/21

All: 0.006+/-0.000 χ^2/NDF : 1554909.6/39

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.362 $\pm$ 0.000

χ^2 /NDF: 8775952187.9/15

Left: 0.407 $\pm$ 0.000 χ^2 /NDF: 37965141.7/4

Right: 0.350 $\pm$ 0.000 χ^2 /NDF: 20941665635.5/34

Left Out: 0.400 $\pm$ 0.000

χ^2 /NDF: 23633439.0/2

In: 0.371 $\pm$ 0.000 χ^2 /NDF: 8960010336.8/17

Right Out: 0.339 $\pm$ 0.000

χ^2 /NDF: 12071802789.9/18

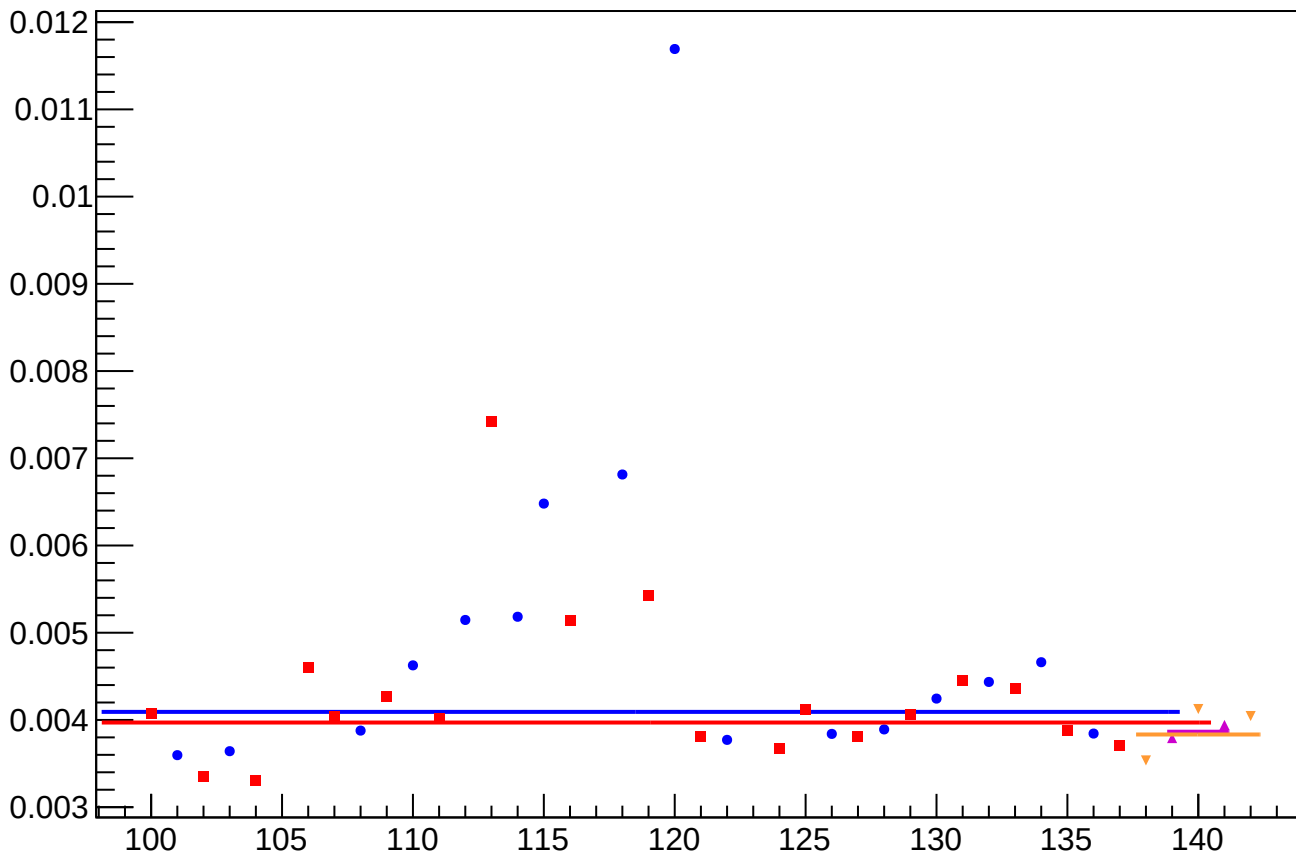
Out: 0.350 $\pm$ 0.000 χ^2 /NDF: 12363258545.3/21

Left In: 0.416 $\pm$ 0.000

χ^2 /NDF: 3732023.7/1

All: 0.360 $\pm$ 0.000 χ^2 /NDF: 21418574455.3/33

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 491748.3/15

Left Out: 0.004+/-0.000 χ^2/NDF :14225.1/2

Right Out: 0.004+/-0.000 χ^2/NDF : 313701.1/18

Left In: 0.004+/-0.000 χ^2/NDF :830.2/1

Left: 0.004+/-0.000 χ^2/NDF : 15137.2/4

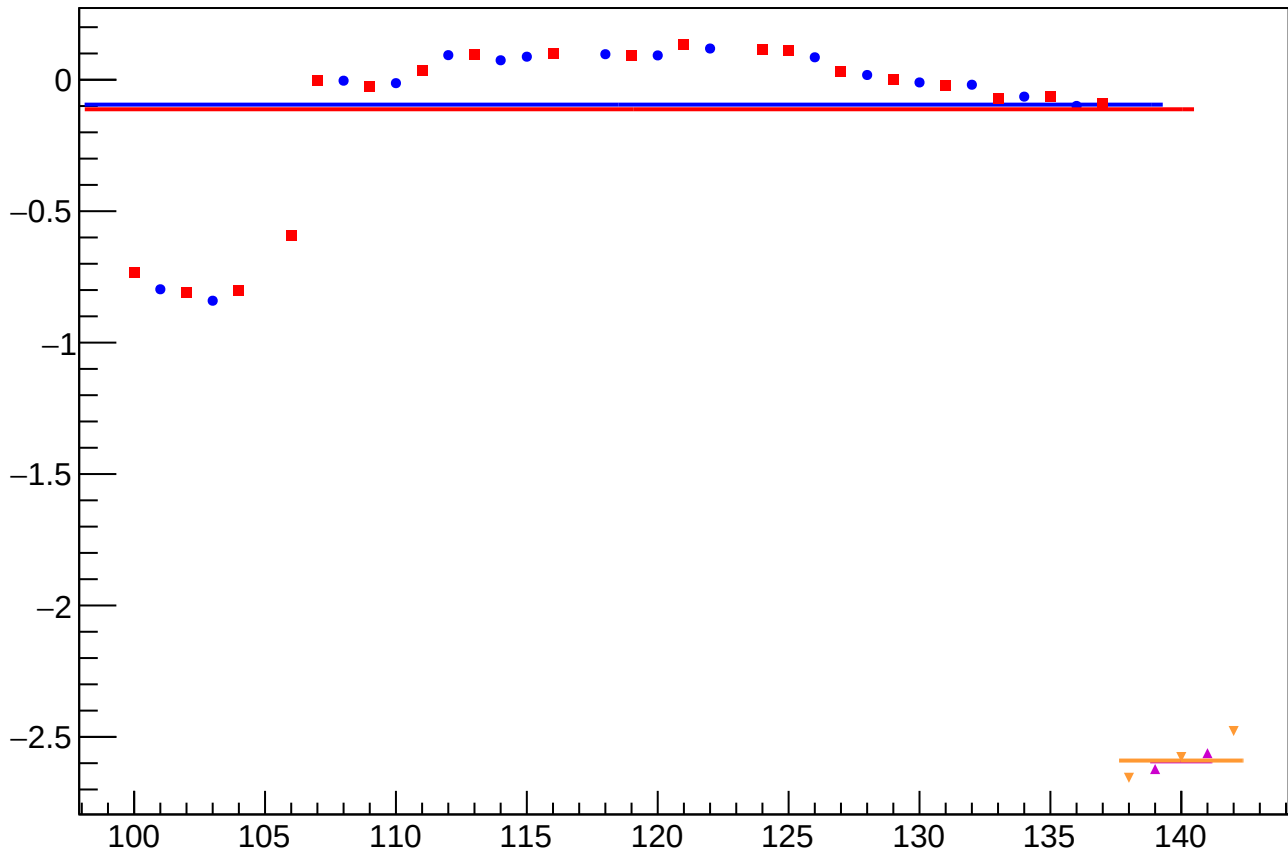
Right: 0.004+/-0.000 χ^2/NDF : 811192.6/34

In: 0.004+/-0.000 χ^2/NDF :498891.1/17

Out: 0.004+/-0.000 χ^2/NDF :330700.4/21

All: 0.004+/-0.000 χ^2/NDF : 835134.8/39

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.095+/-0.000 χ^2/NDF : 5489721985.1/15

Left Out: -2.590+/-0.000 χ^2/NDF : 46986566.0/2

Right Out: -0.112+/-0.000 χ^2/NDF : 6190163375.6/18

Left In: -2.593+/-0.000 χ^2/NDF : 8289410.7/1

Left: -2.591+/-0.000 χ^2/NDF : 55322913.5/4

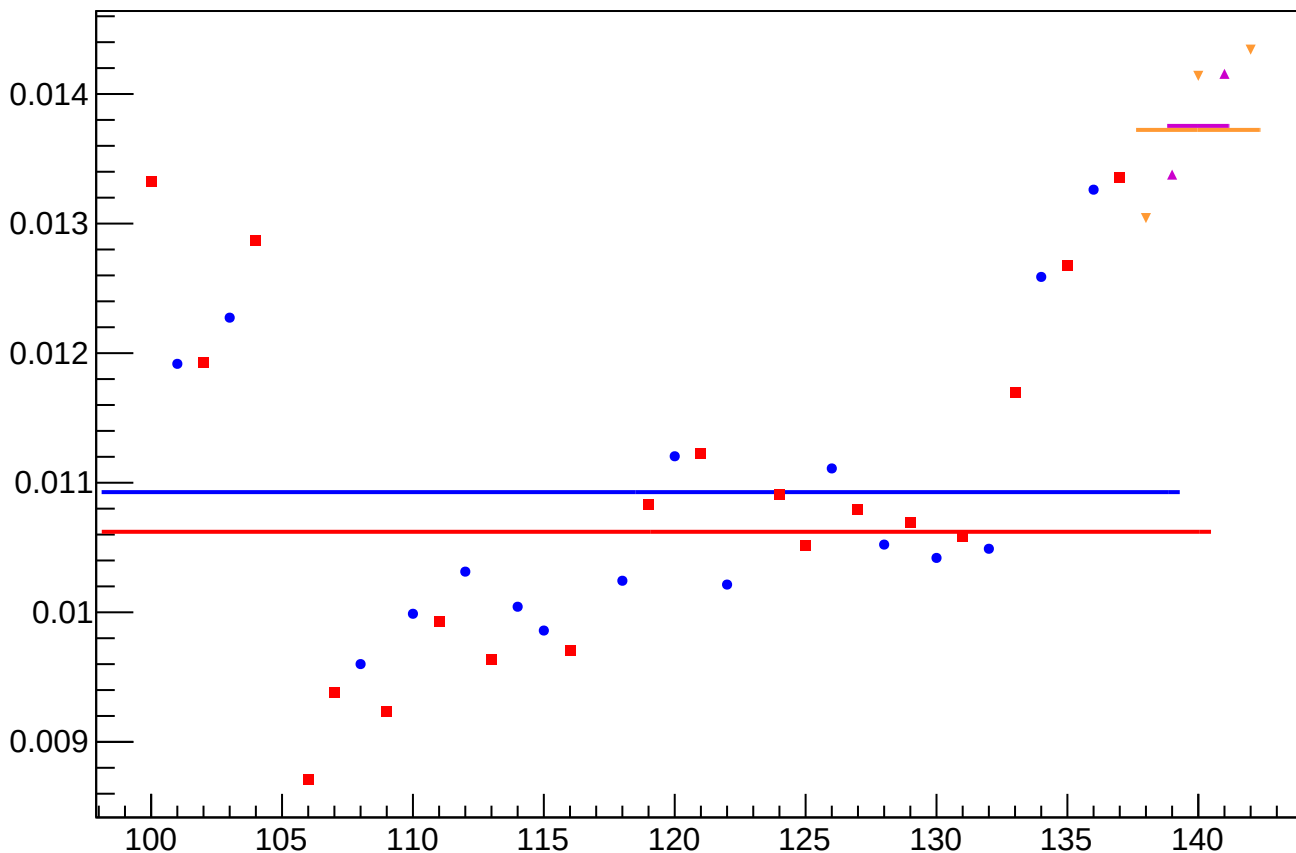
Right: -0.104+/-0.000 χ^2/NDF : 11689577002.2/34

In: -0.426+/-0.000 χ^2/NDF : 54817379157.6/17

Out: -0.464+/-0.000 χ^2/NDF : 63203780442.4/21

All: -0.446+/-0.000 χ^2/NDF : 118074831549.2

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 136478.1/15

Left Out: 0.014+/-0.000 χ^2/NDF : 7260.8/2

Right Out: 0.011+/-0.000 χ^2/NDF : 190526.1/18

Left In: 0.014+/-0.000 χ^2/NDF : 2750.6/1

Left: 0.014+/-0.000 χ^2/NDF : 10020.8/4

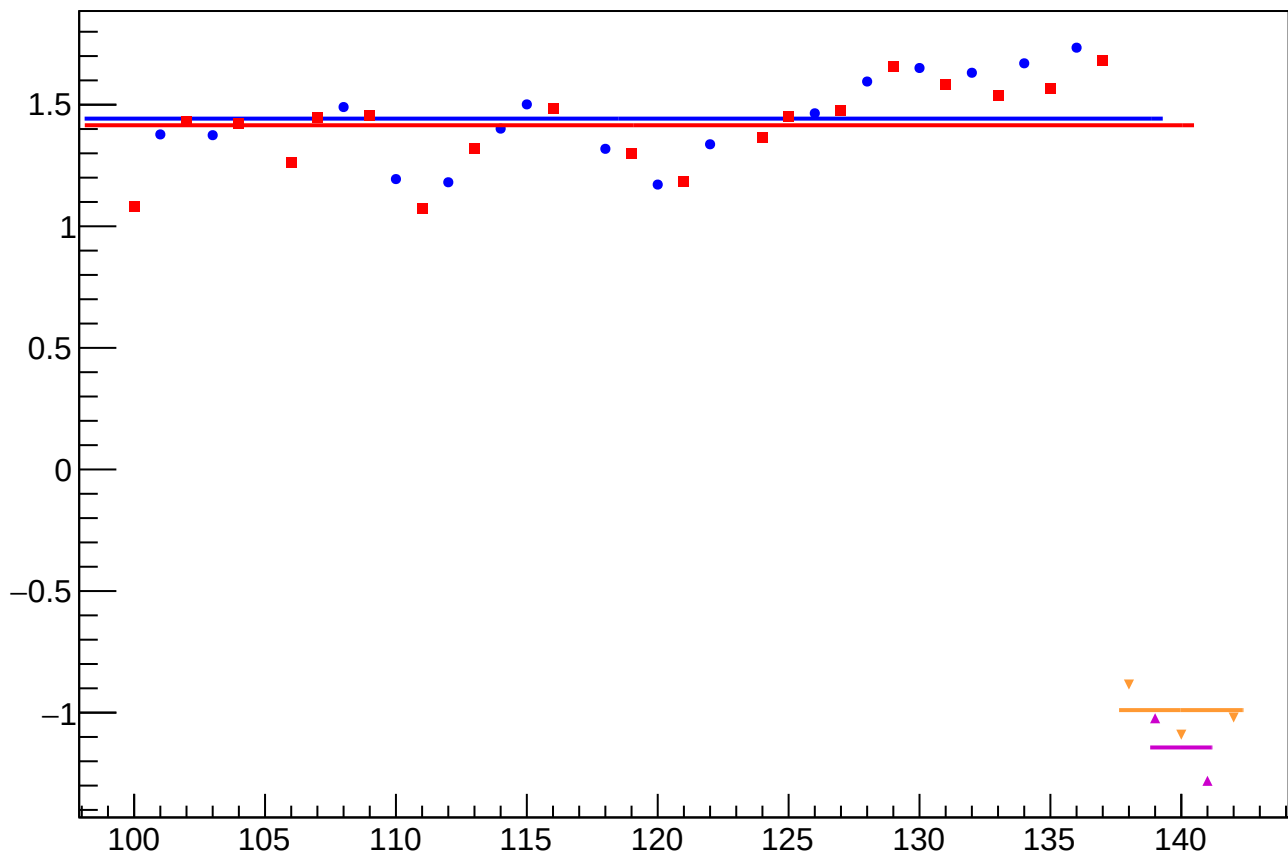
Right: 0.011+/-0.000 χ^2/NDF : 332847.6/34

In: 0.011+/-0.000 χ^2/NDF : 265455.0/17

Out: 0.011+/-0.000 χ^2/NDF : 376315.2/21

All: 0.011+/-0.000 χ^2/NDF : 645933.7/39

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.443+/-0.000 χ^2/NDF : 3739724691.1/15

Left Out: -0.990+/-0.000 χ^2/NDF : 168333303.9/2

Right Out: 1.415+/-0.000 χ^2/NDF : 2803466123.0/18

Left In: -1.143+/-0.000 χ^2/NDF : 259988195.2/1

Left: -1.058+/-0.000 χ^2/NDF : 633745522.0/4

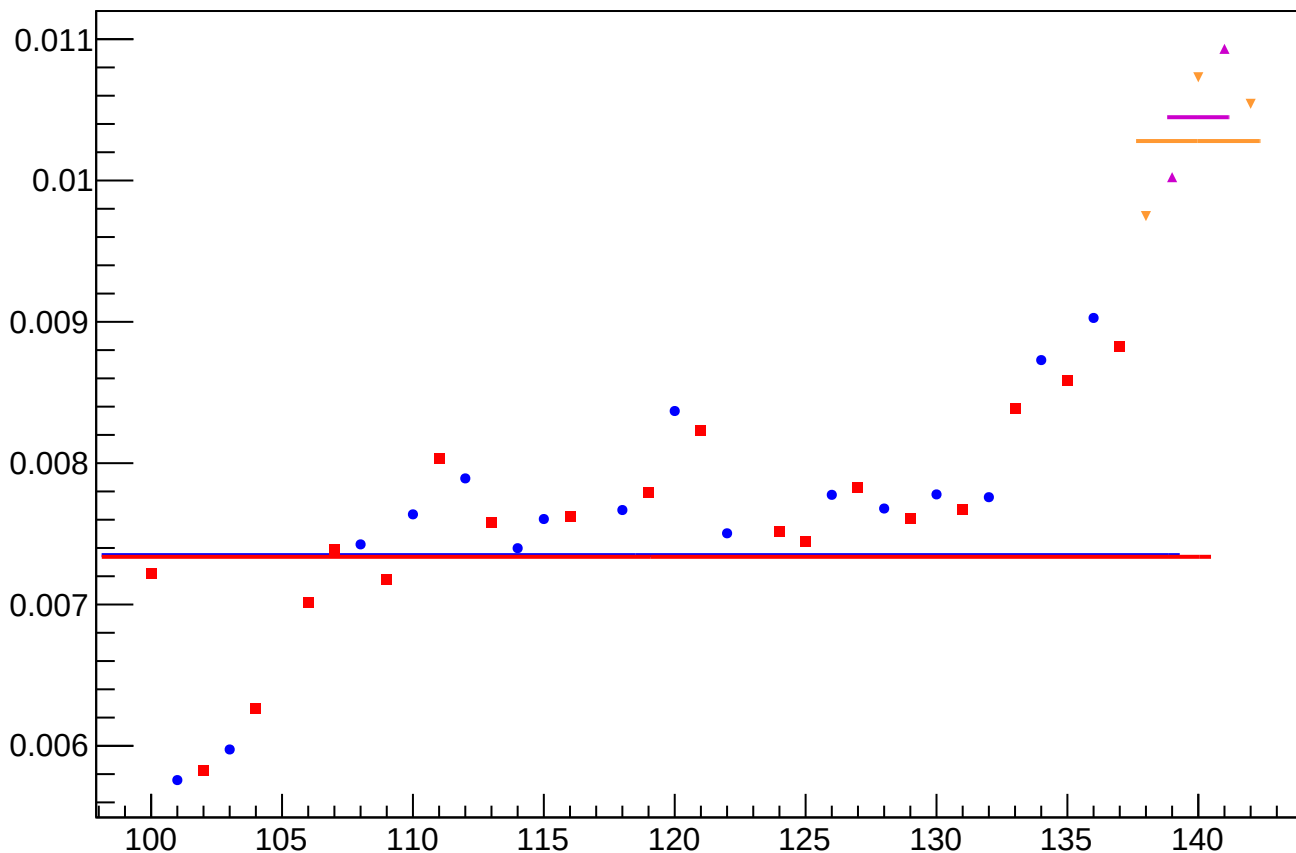
Right: 1.429+/-0.000 χ^2/NDF : 6593016759.0/34

In: 1.164+/-0.000 χ^2/NDF : 98193005381.2/17

Out: 1.117+/-0.000 χ^2/NDF : 101315574544.4/21

All: 1.140+/-0.000 χ^2/NDF : 199679198357.5

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 270864.2/15

Left Out: 0.010+/-0.000 χ^2/NDF : 8119.3/2

Right Out: 0.007+/-0.000 χ^2/NDF : 195372.6/18

Left In: 0.010+/-0.000 χ^2/NDF : 6478.5/1

Left: 0.010+/-0.000 χ^2/NDF : 15092.4/4

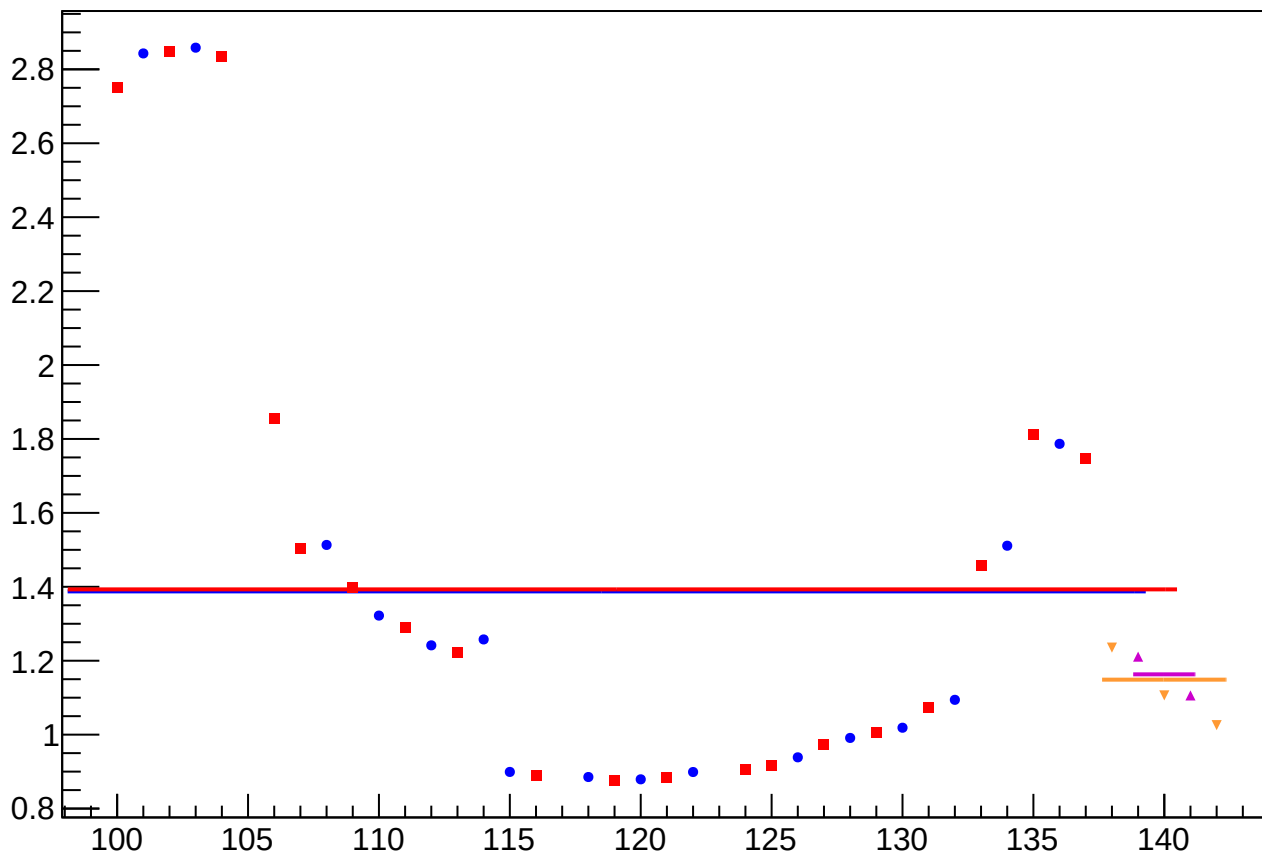
Right: 0.007+/-0.000 χ^2/NDF : 466255.6/34

In: 0.008+/-0.000 χ^2/NDF : 547794.4/17

Out: 0.008+/-0.000 χ^2/NDF : 497748.9/21

All: 0.008+/-0.000 χ^2/NDF : 1045602.6/39

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.388+/-0.000 χ^2/NDF : 58612635453.0/15

Left Out: 1.149+/-0.000 χ^2/NDF : 210355170.3/2

Right Out: 1.393+/-0.000 χ^2/NDF : 55365724659.7/18

Left In: 1.163+/-0.000 χ^2/NDF : 71387004.8/1

Left: 1.155+/-0.000 χ^2/NDF : 284680512.2/4

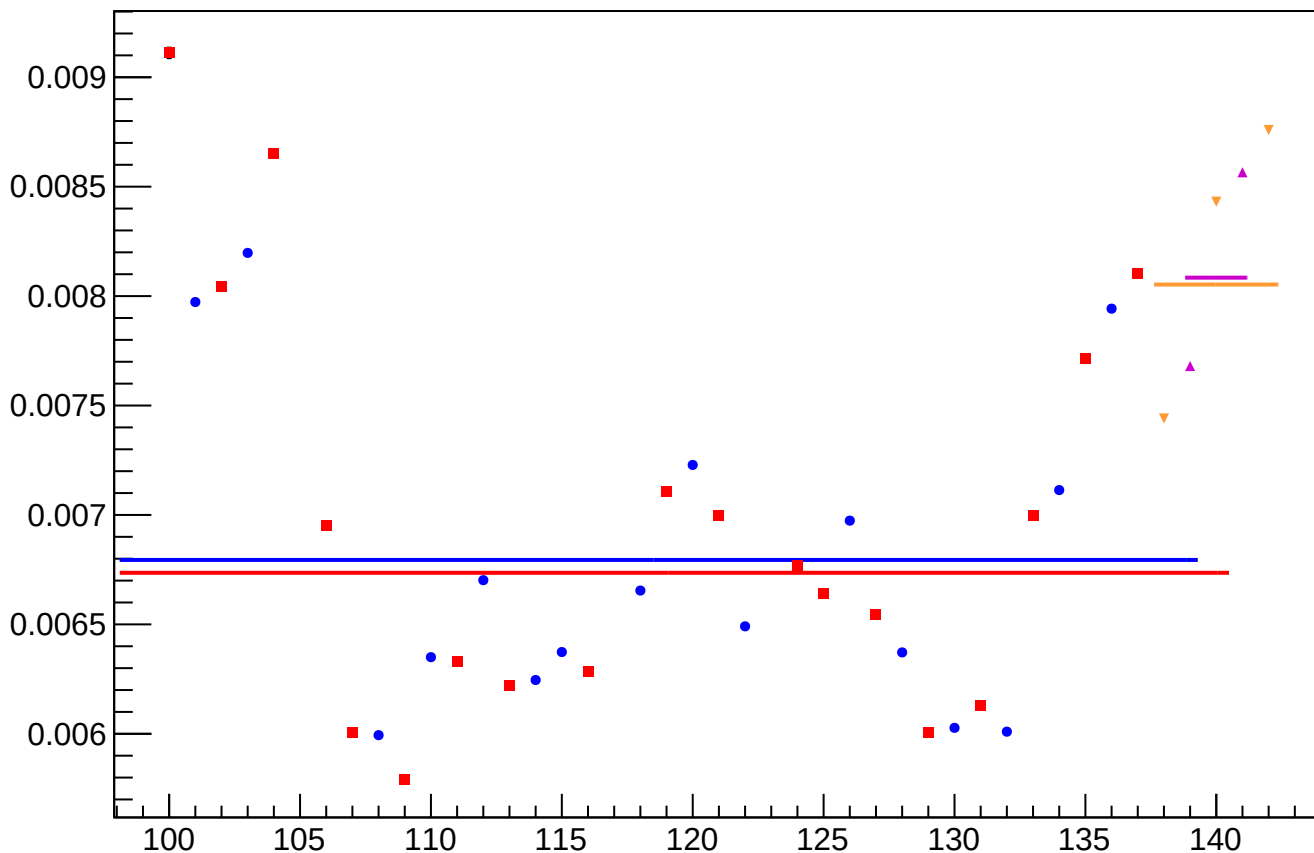
Right: 1.390+/-0.000 χ^2/NDF : 113980694957.7/34

In: 1.355+/-0.000 χ^2/NDF : 59808525212.7/17

Out: 1.354+/-0.000 χ^2/NDF : 57136125580.8/21

All: 1.354+/-0.000 χ^2/NDF : 116944830337.8

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 164456.7/15

Left Out: 0.008+/-0.000 χ^2/NDF :19317.1/2

Right Out: 0.007+/-0.000 χ^2/NDF : 198492.7/18

Left In: 0.008+/-0.000 χ^2/NDF :10156.6/1

Left: 0.008+/-0.000 χ^2/NDF : 29501.9/4

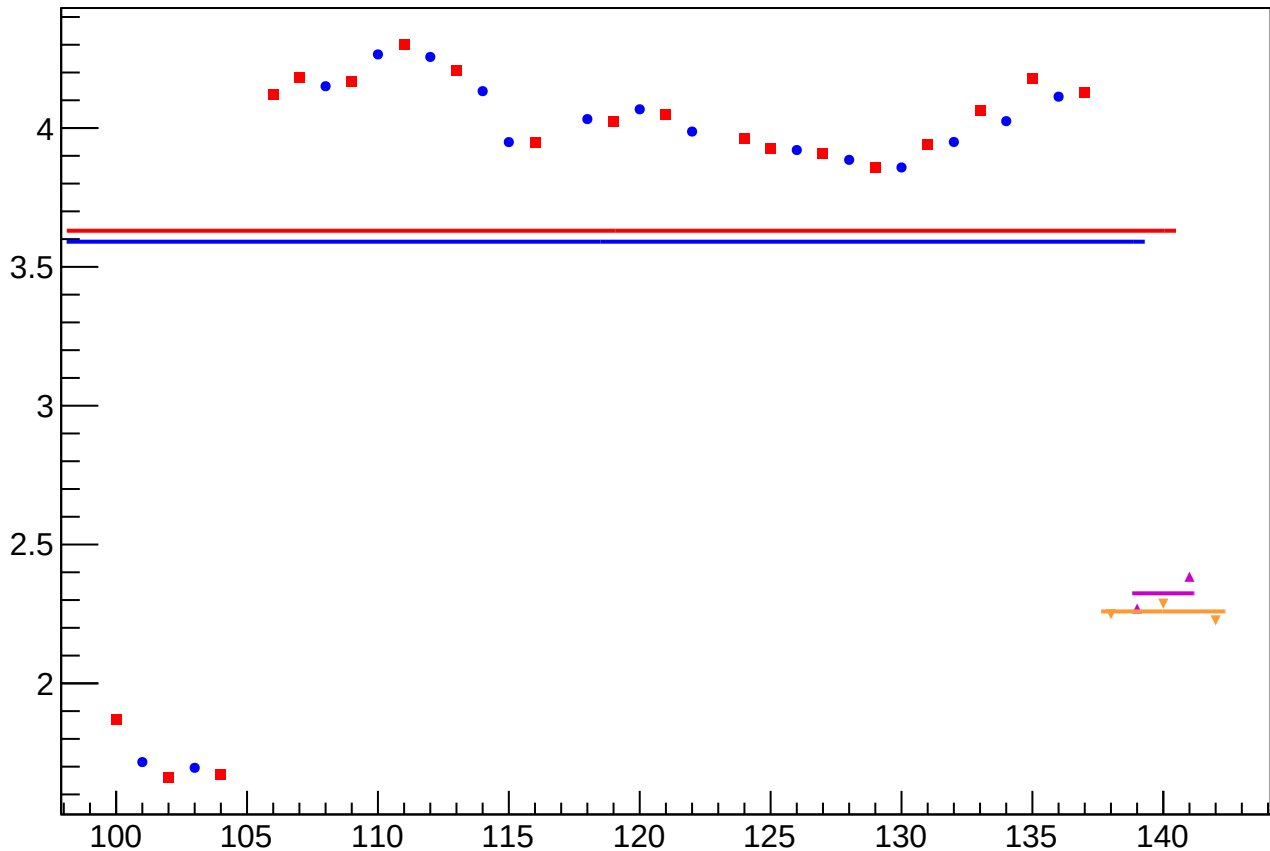
Right: 0.007+/-0.000 χ^2/NDF : 363493.8/34

In: 0.007+/-0.000 χ^2/NDF :248909.4/17

Out: 0.007+/-0.000 χ^2/NDF :308552.9/21

All: 0.007+/-0.000 χ^2/NDF : 557671.0/39

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.591+/-0.000 χ^2/NDF : 202184644473.7/15

Left Out: 2.259+/-0.000 χ^2/NDF : 21701560.8/2

Right Out: 3.630+/-0.000 χ^2/NDF : 212588390342.3/18

Left In: 2.324+/-0.000 χ^2/NDF : 103716002.6/1

Left: 2.288+/-0.000 χ^2/NDF : 199535073.7/4

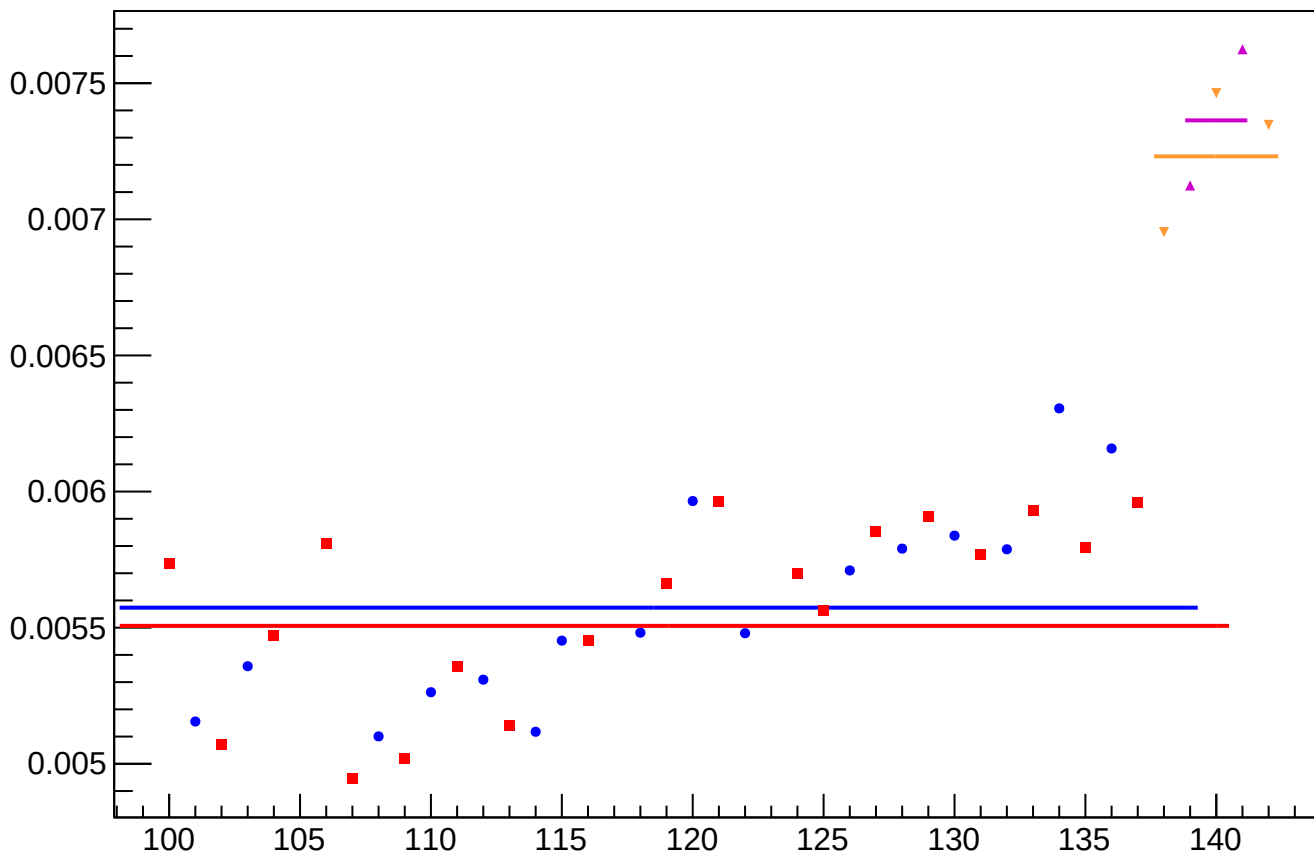
Right: 3.611+/-0.000 χ^2/NDF : 414956393826.7/34

In: 3.438+/-0.000 χ^2/NDF : 247013774581.0/17

Out: 3.440+/-0.000 χ^2/NDF : 275468519426.8/21

All: 3.439+/-0.000 χ^2/NDF : 522482905274.7

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 59130.1/15

Left Out: 0.007+/-0.000 χ^2/NDF : 4282.5/2

Right Out: 0.006+/-0.000 χ^2/NDF : 57427.9/18

Left In: 0.007+/-0.000 χ^2/NDF : 3964.2/1

Left: 0.007+/-0.000 χ^2/NDF : 8856.6/4

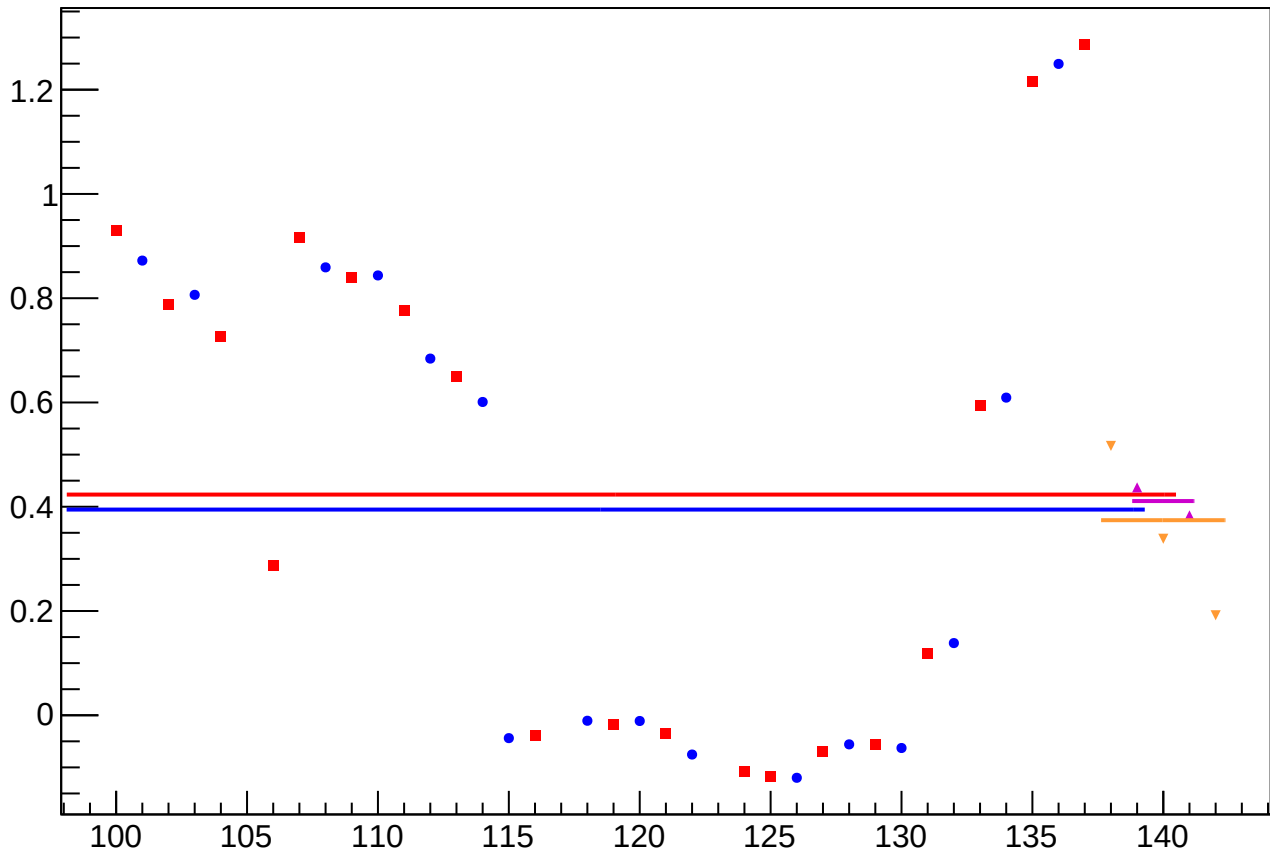
Right: 0.006+/-0.000 χ^2/NDF : 117612.2/34

In: 0.006+/-0.000 χ^2/NDF : 241770.0/17

Out: 0.006+/-0.000 χ^2/NDF : 260627.2/21

All: 0.006+/-0.000 χ^2/NDF : 502915.0/39

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.395+/-0.000 χ^2/NDF : 7412548044.8/15

Left Out: 0.374+/-0.000 χ^2/NDF : 123808178.5/2

Right Out: 0.423+/-0.000 χ^2/NDF : 6904060515.1/18

Left In: 0.411+/-0.000 χ^2/NDF : 4543503.4/1

Left: 0.391+/-0.000 χ^2/NDF : 133064631.8/4

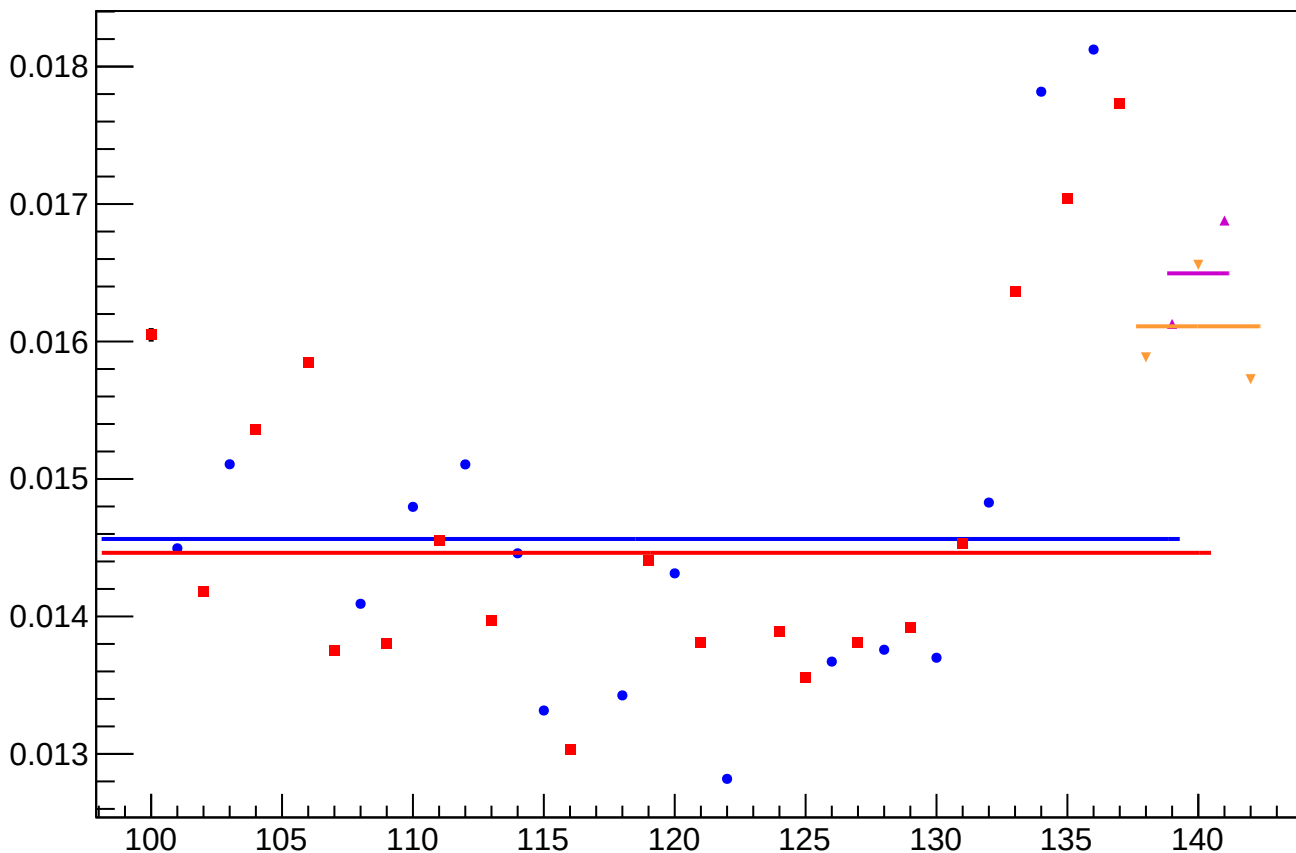
Right: 0.409+/-0.000 χ^2/NDF : 14330729641.2/34

In: 0.397+/-0.000 χ^2/NDF : 7418511273.0/17

Out: 0.414+/-0.000 χ^2/NDF : 7043295895.5/21

All: 0.406+/-0.000 χ^2/NDF : 14467865197.2/3

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2/NDF : 133134.7/15

Left Out: 0.016 $\pm$ 0.000 χ^2/NDF :2046.5/2

Right Out: 0.014 $\pm$ 0.000 χ^2/NDF : 77396.3/18

Left In: 0.016 $\pm$ 0.000 χ^2/NDF :1786.1/1

Left: 0.016 $\pm$ 0.000 χ^2/NDF : 4870.1/4

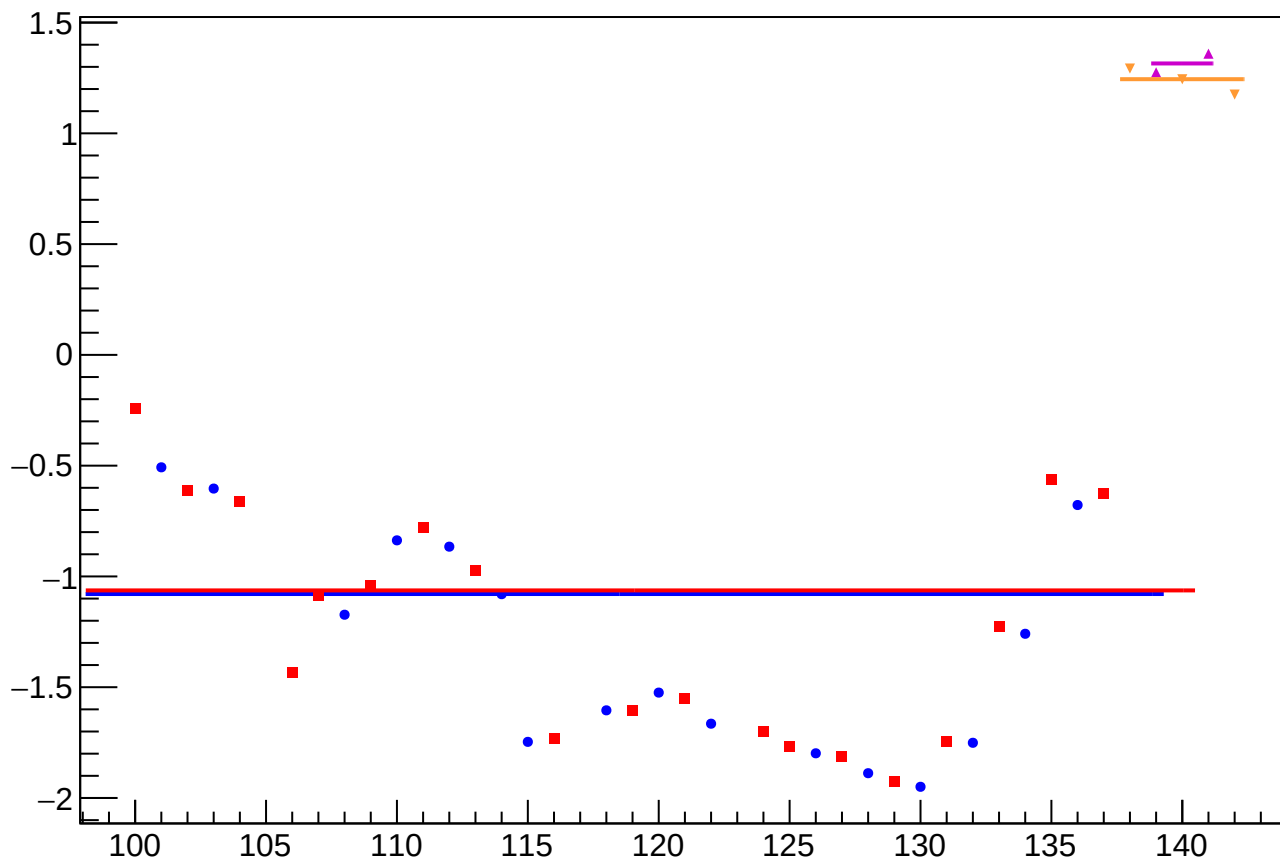
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 210877.4/34

In: 0.015 $\pm$ 0.000 χ^2/NDF :174602.4/17

Out: 0.015 $\pm$ 0.000 χ^2/NDF :114126.3/21

All: 0.015 $\pm$ 0.000 χ^2/NDF : 289186.4/39

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.079+/-0.000 χ^2/NDF : 59756571764.5/15

Left Out: 1.244+/-0.000 χ^2/NDF : 264903450.3/2

Right Out: -1.063+/-0.000 χ^2/NDF : 49910403943.5/18

Left In: 1.315+/-0.000 χ^2/NDF : 154337492.0/1

Left: 1.273+/-0.000 χ^2/NDF : 679744007.9/4

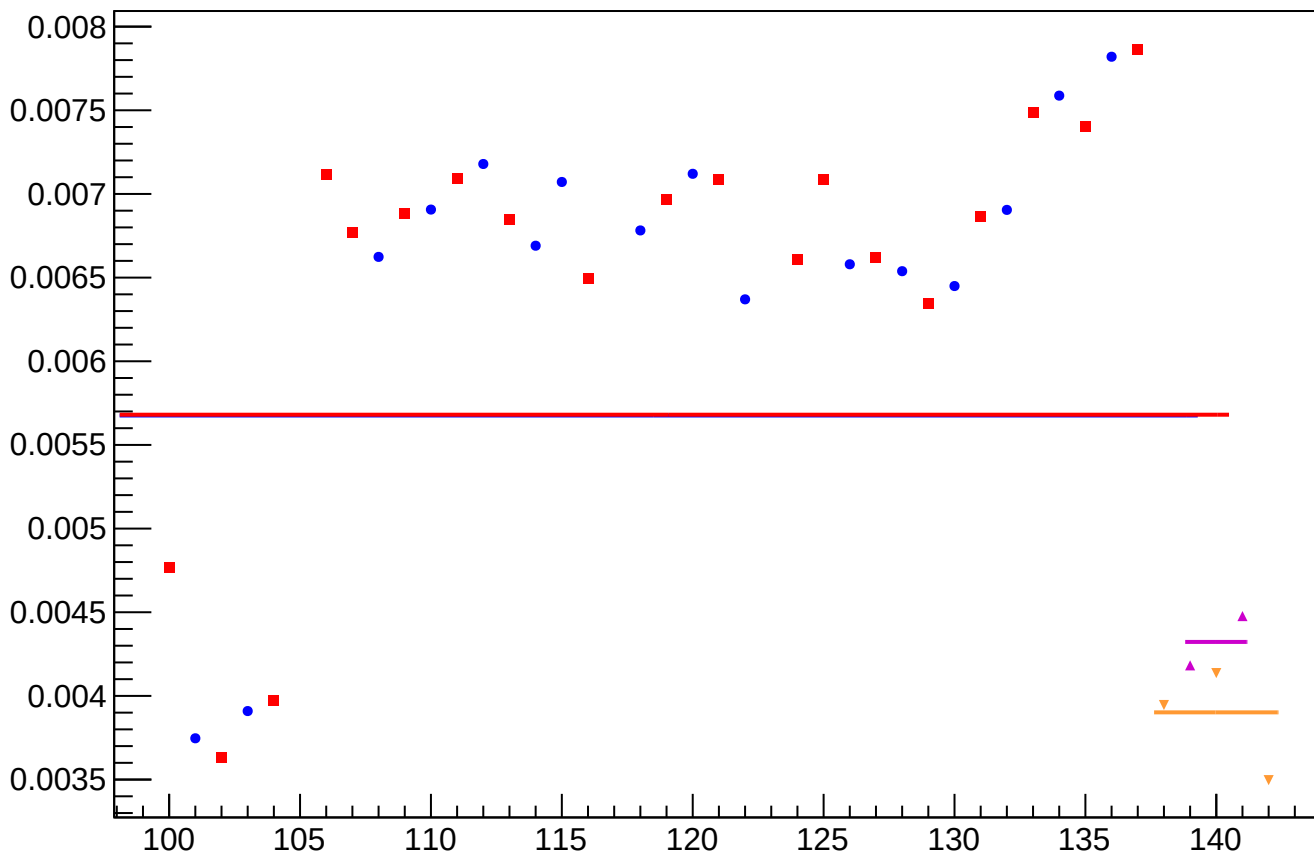
Right: -1.071+/-0.000 χ^2/NDF : 109693375141.4/34

In: -0.346+/-0.000 χ^2/NDF : 407170681124.2/17

Out: -0.168+/-0.000 χ^2/NDF : 462755143686.9/21

All: -0.251+/-0.000 χ^2/NDF : 874710528127.0

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 944822.9/15

Left Out: 0.004+/-0.000 χ^2/NDF :15990.3/2

Right Out: 0.006+/-0.000 χ^2/NDF : 980583.9/18

Left In: 0.004+/-0.000 χ^2/NDF :3775.8/1

Left: 0.004+/-0.000 χ^2/NDF : 38075.8/4

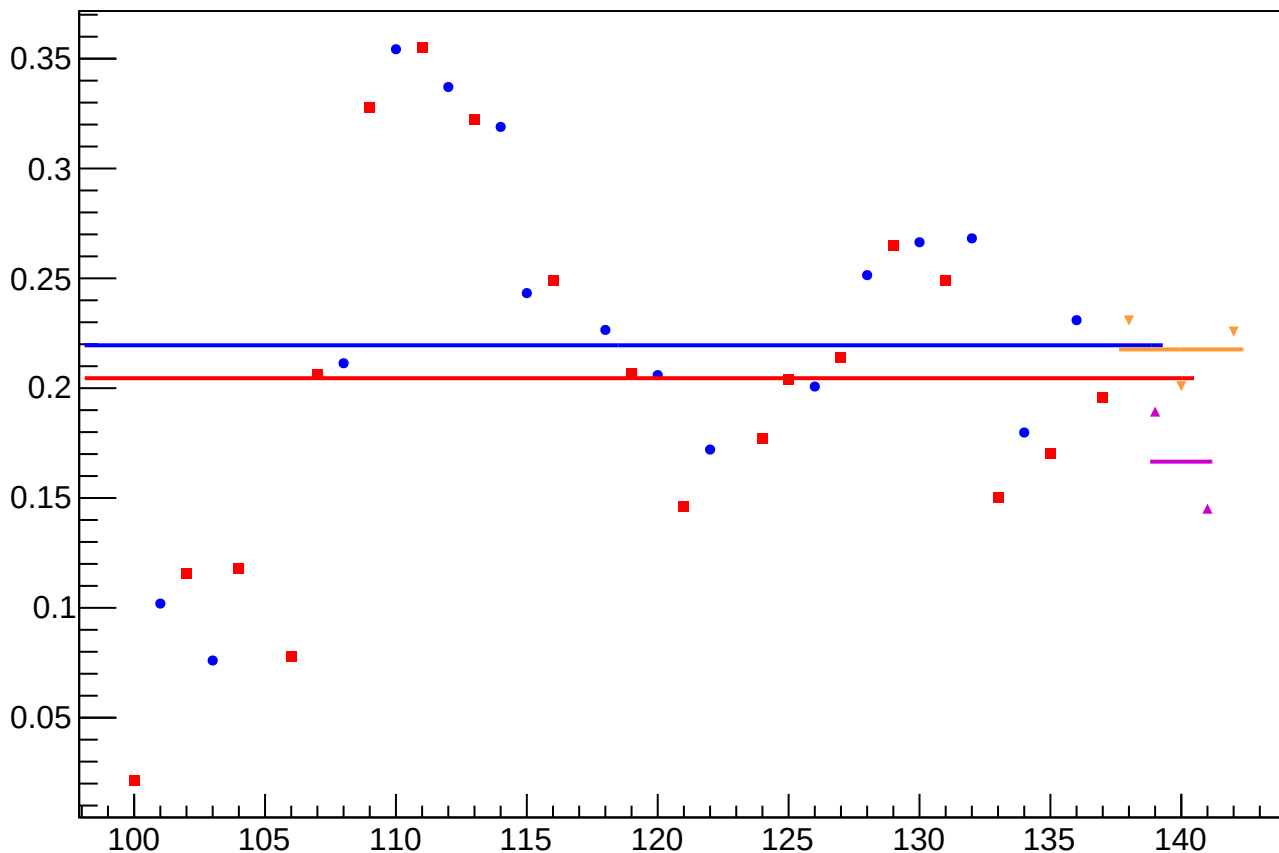
Right: 0.006+/-0.000 χ^2/NDF : 1925411.0/34

In: 0.005+/-0.000 χ^2/NDF :1170416.7/17

Out: 0.005+/-0.000 χ^2/NDF :1486999.4/21

All: 0.005+/-0.000 χ^2/NDF : 2679692.1/39

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.220+/-0.000

χ^2/NDF : 16729743257.8/15

Left: 0.195+/-0.000

χ^2/NDF : 1858183532.4/4

Left Out: 0.218+/-0.000

χ^2/NDF : 200690742.4/2

Right: 0.212+/-0.000

χ^2/NDF : 39451425816.8/34

Right Out: 0.205+/-0.000

χ^2/NDF : 22312377506.1/18

In: 0.209+/-0.000

χ^2/NDF : 19098696302.7/17

Out: 0.207+/-0.000

χ^2/NDF : 22653894365.0/21

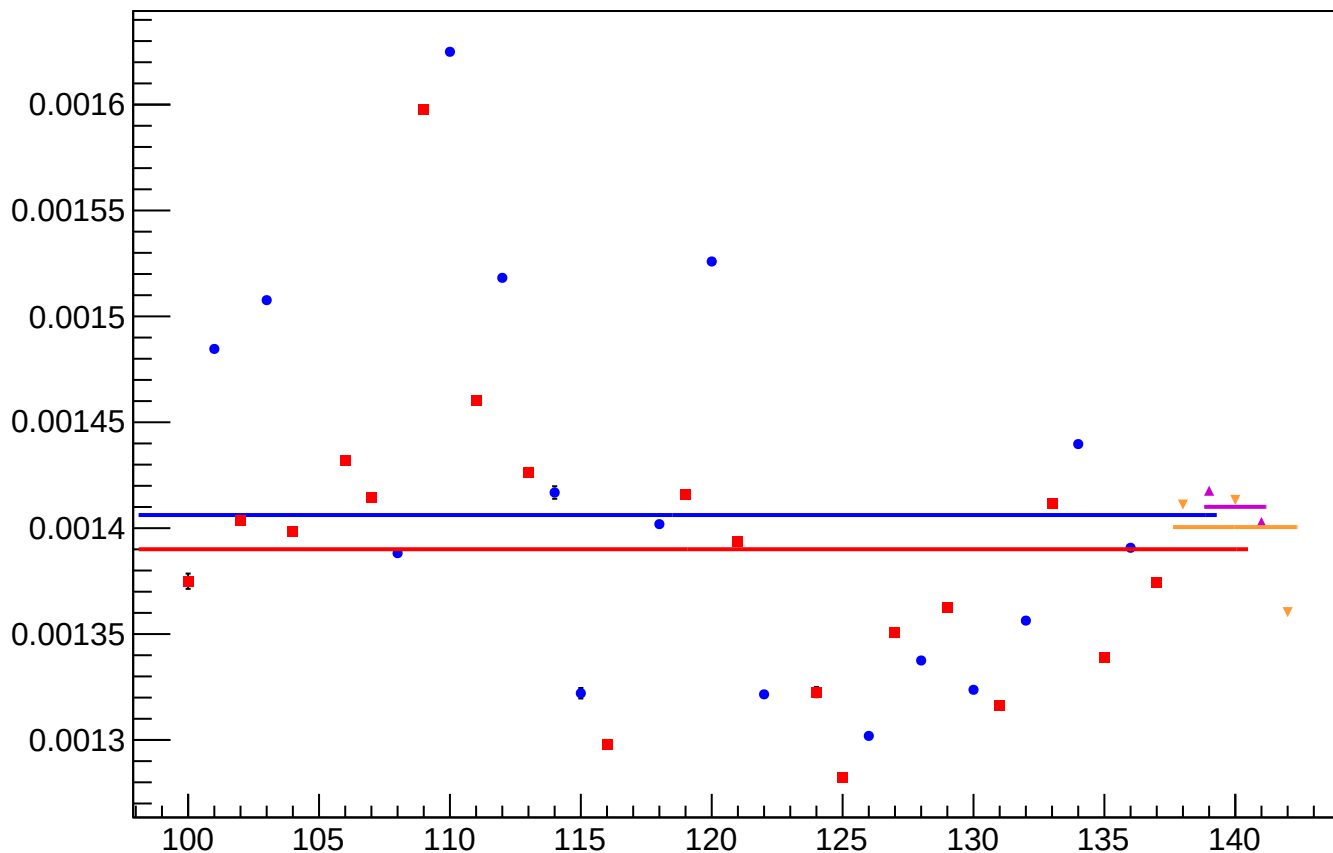
Left In: 0.167+/-0.000

χ^2/NDF : 421950548.6/1

All: 0.208+/-0.000

χ^2/NDF : 41759063129.9/3

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 48200.9/15

Left Out: 0.001+/-0.000 χ^2/NDF : 990.0/2

Right Out: 0.001+/-0.000 χ^2/NDF : 34786.9/18

Left In: 0.001+/-0.000 χ^2/NDF : 94.0/1

Left: 0.001+/-0.000 χ^2/NDF : 1170.5/4

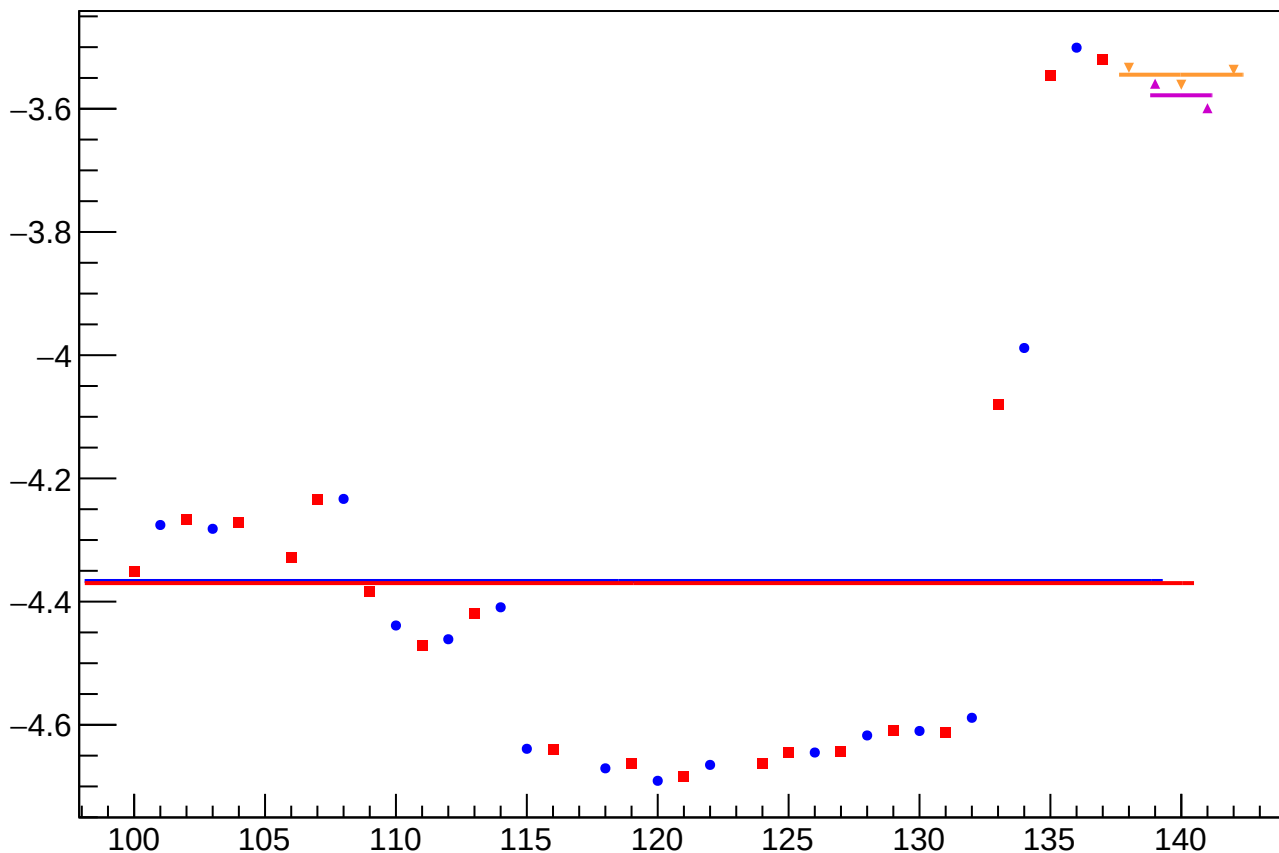
Right: 0.001+/-0.000 χ^2/NDF : 83938.6/34

In: 0.001+/-0.000 χ^2/NDF : 48315.6/17

Out: 0.001+/-0.000 χ^2/NDF : 35955.9/21

All: 0.001+/-0.000 χ^2/NDF : 85258.6/39

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.367+/-0.000 χ^2 /NDF: 353013303743.6/15

Left Out: -3.545+/-0.000 χ^2 /NDF: 110503188.0/2

Right Out: -4.370+/-0.000 χ^2 /NDF: 296136368274.3/18

Left In: -3.578+/-0.000 χ^2 /NDF: 216958793.5/1

Left: -3.560+/-0.000 χ^2 /NDF: 661293035.7/4

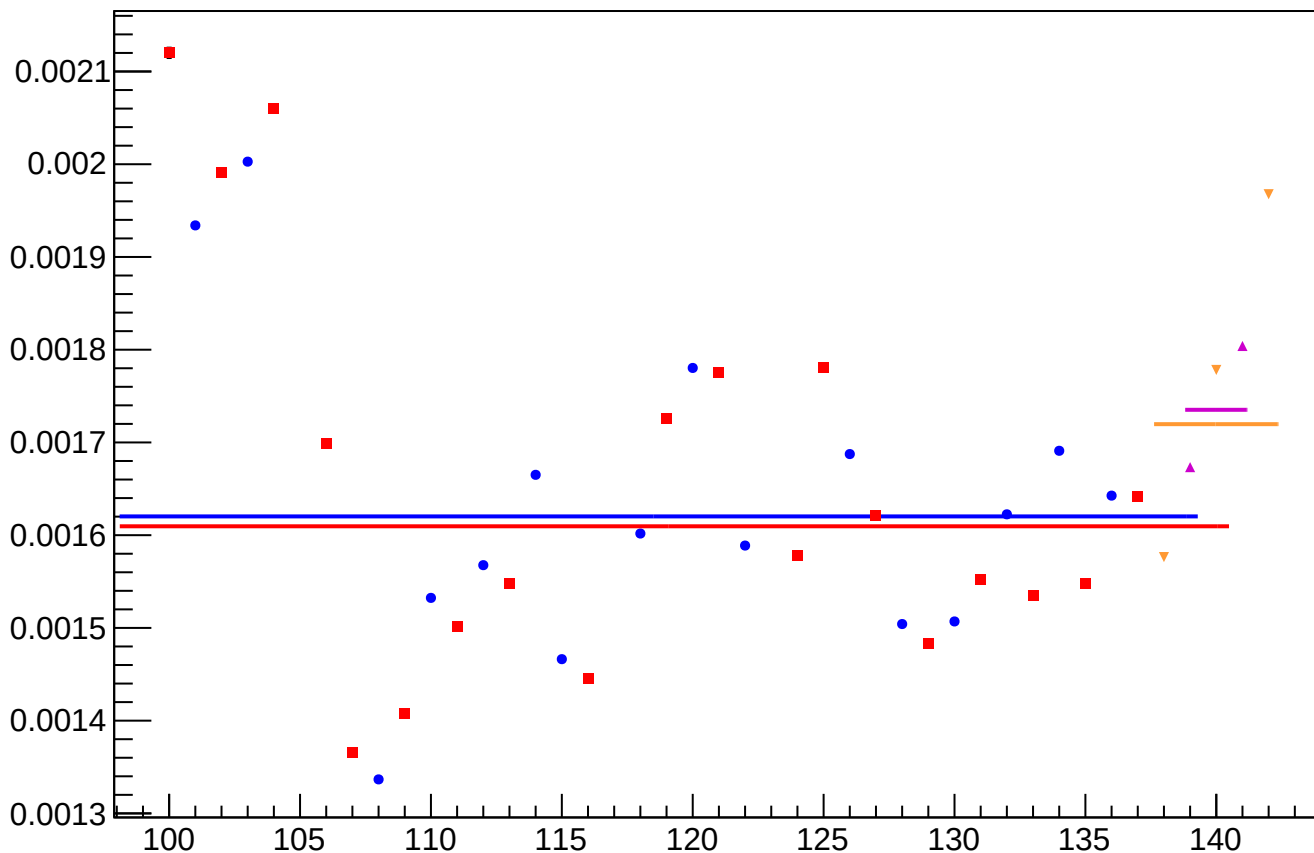
Right: -4.368+/-0.000 χ^2 /NDF: 649165512283.3/34

In: -4.229+/-0.000 χ^2 /NDF: 636201725725.0/17

Out: -4.212+/-0.000 χ^2 /NDF: 655136445951.1/21

All: -4.220+/-0.000 χ^2 /NDF: 1291855884804

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 140216.3/15

Left Out: 0.002+/-0.000 χ^2/NDF :27020.8/2

Right Out: 0.002+/-0.000 χ^2/NDF : 184968.0/18

Left In: 0.002+/-0.000 χ^2/NDF :4689.7/1

Left: 0.002+/-0.000 χ^2/NDF : 31853.8/4

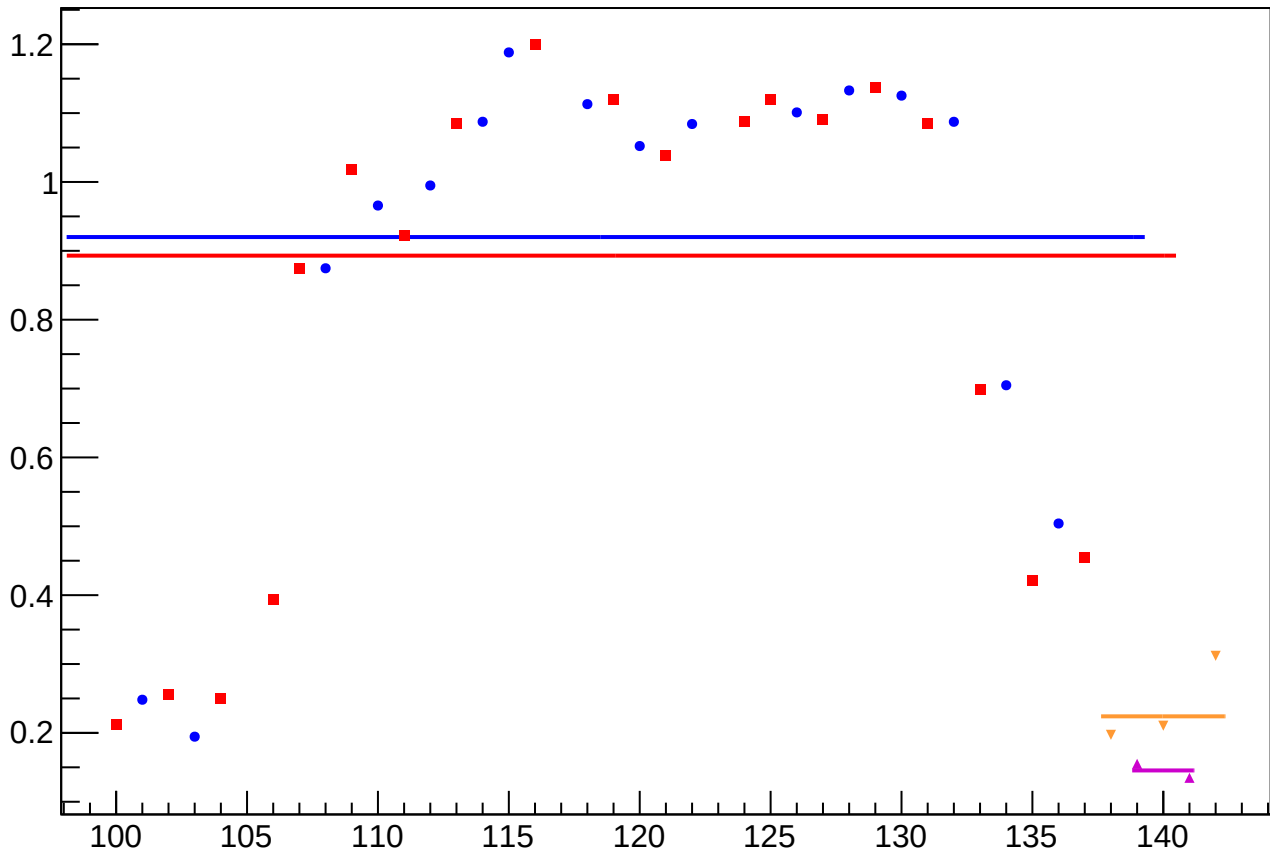
Right: 0.002+/-0.000 χ^2/NDF : 325489.2/34

In: 0.002+/-0.000 χ^2/NDF :156937.2/17

Out: 0.002+/-0.000 χ^2/NDF :224771.0/21

All: 0.002+/-0.000 χ^2/NDF : 382006.0/39

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.920 $\pm$ 0.000 χ^2 /NDF: 14566431727.4/15

Left Out: 0.224 $\pm$ 0.000 χ^2 /NDF: 52114413.1/2

Right Out: 0.893 $\pm$ 0.000 χ^2 /NDF: 17642154019.1/18

Left In: 0.145 $\pm$ 0.000 χ^2 /NDF: 2427884.8/1

Left: 0.188 $\pm$ 0.000 χ^2 /NDF: 134052488.9/4

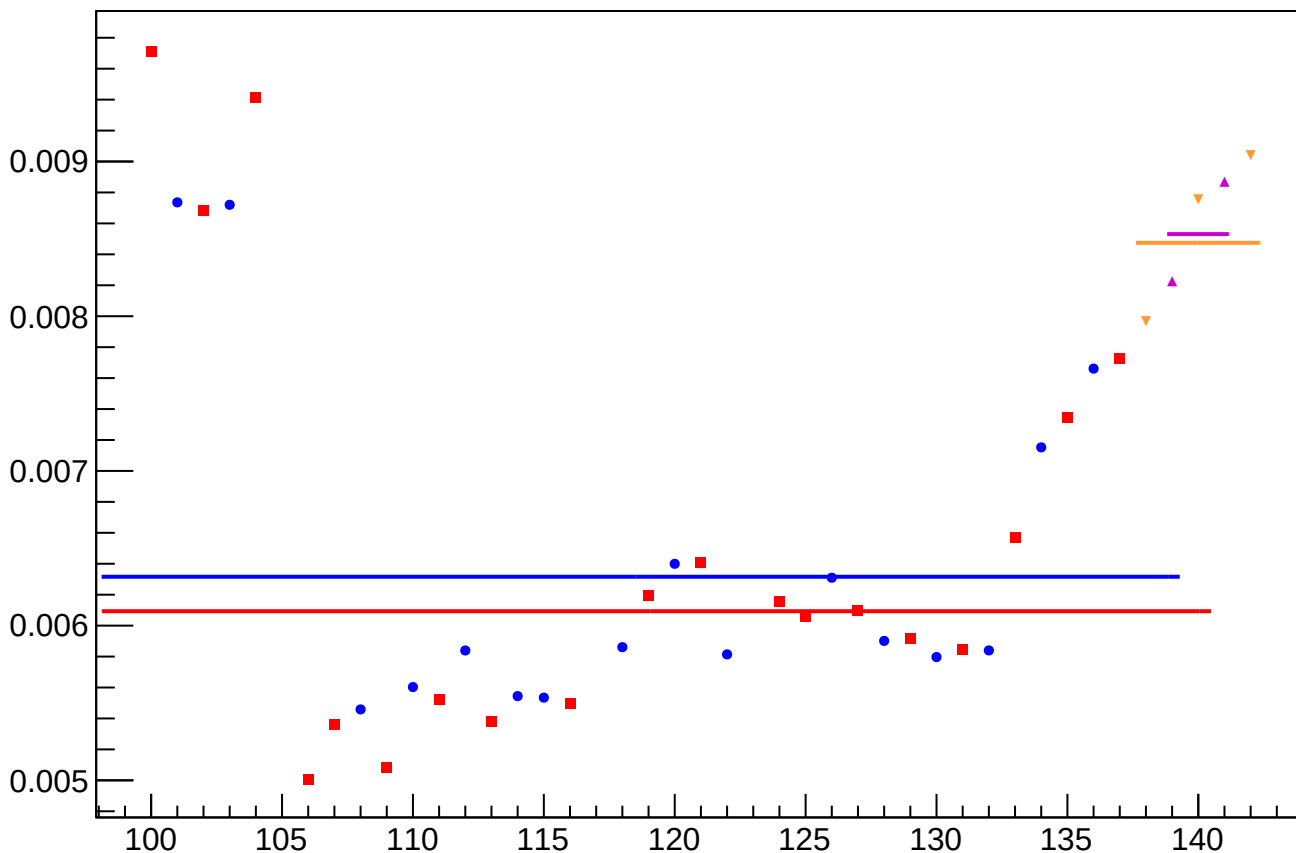
Right: 0.906 $\pm$ 0.000 χ^2 /NDF: 32276058175.7/34

In: 0.828 $\pm$ 0.000 χ^2 /NDF: 27076180258.4/17

Out: 0.808 $\pm$ 0.000 χ^2 /NDF: 28757931094.4/21

All: 0.818 $\pm$ 0.000 χ^2 /NDF: 55875336429.6/3

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 335709.2/15

Left Out: 0.008+/-0.000 χ^2/NDF :11339.6/2

Right Out: 0.006+/-0.000 χ^2/NDF : 435933.6/18

Left In: 0.009+/-0.000 χ^2/NDF :4877.1/1

Left: 0.009+/-0.000 χ^2/NDF : 16298.4/4

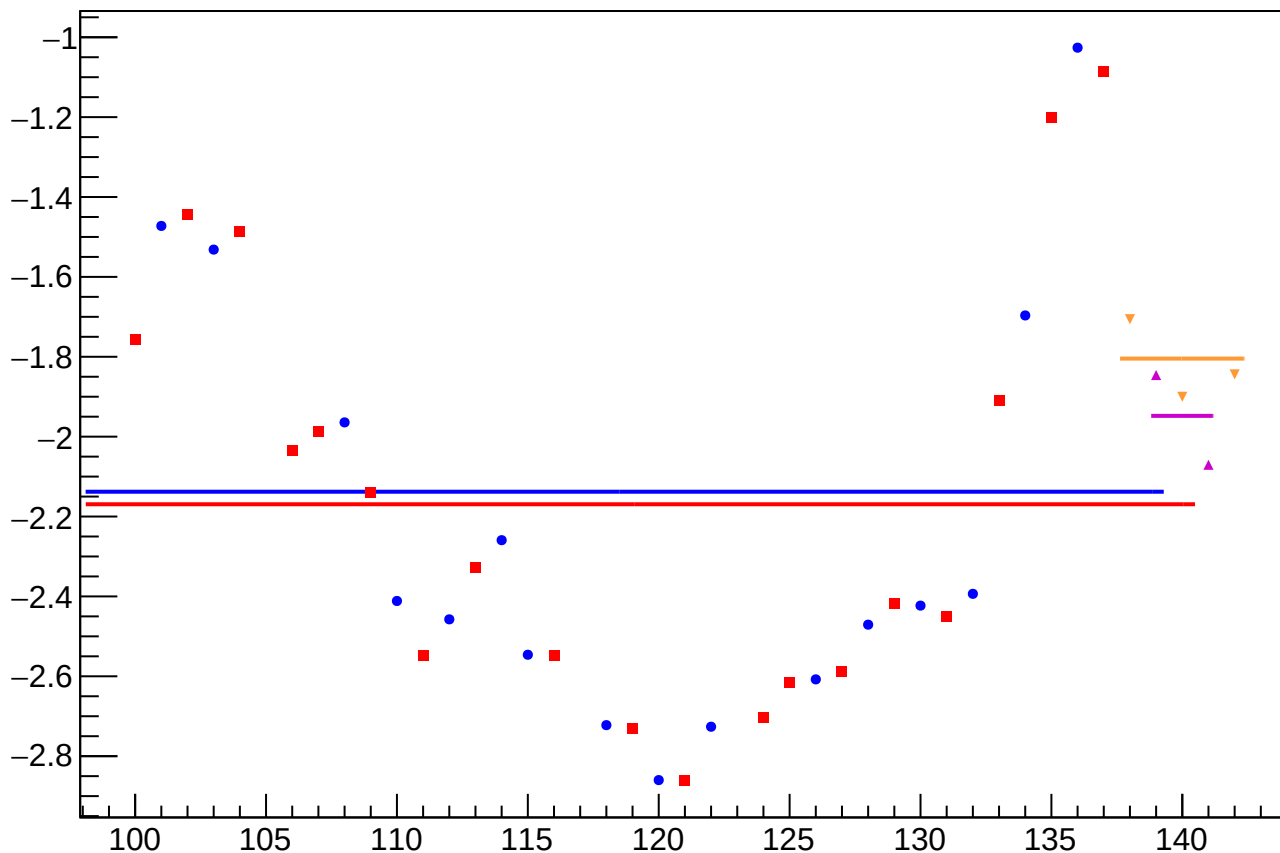
Right: 0.006+/-0.000 χ^2/NDF : 780835.2/34

In: 0.007+/-0.000 χ^2/NDF :545116.7/17

Out: 0.006+/-0.000 χ^2/NDF :727643.6/21

All: 0.006+/-0.000 χ^2/NDF : 1279921.2/39

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.138+/-0.000 χ^2/NDF : 65666622158.4/15

Left Out: -1.805+/-0.000 χ^2/NDF : 293562123.0/2

Right Out: -2.169+/-0.000 χ^2/NDF : 57409196879.6/18

Left In: -1.948+/-0.000 χ^2/NDF : 377915028.2/1

Left: -1.869+/-0.000 χ^2/NDF : 1013158881.9/4

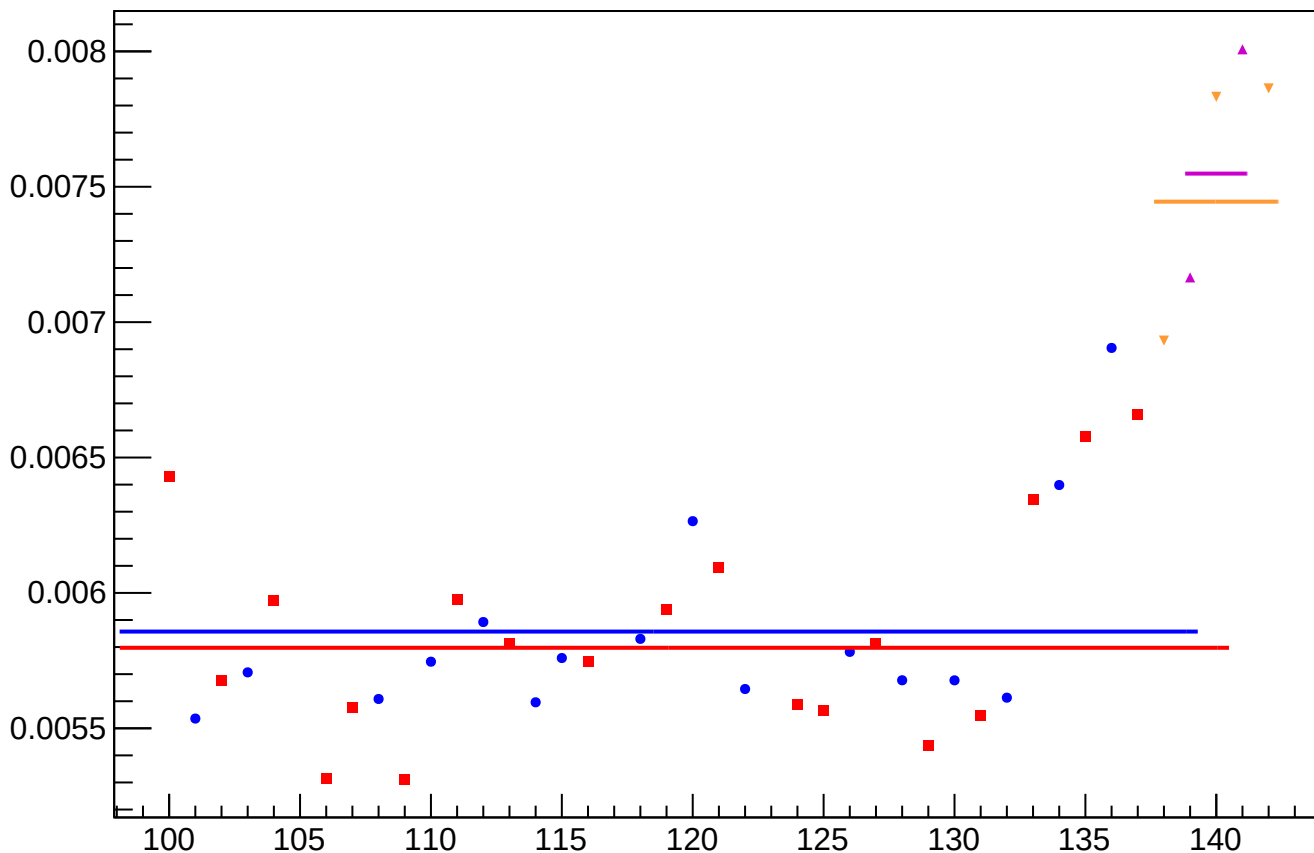
Right: -2.154+/-0.000 χ^2/NDF : 123181980201.2/34

In: -2.114+/-0.000 χ^2/NDF : 66997014099.5/17

Out: -2.117+/-0.000 χ^2/NDF : 61917151882.2/21

All: -2.116+/-0.000 χ^2/NDF : 128915456043.4

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 61946.9/15

Left Out: 0.007+/-0.000 χ^2/NDF :15100.8/2

Right Out: 0.006+/-0.000 χ^2/NDF : 56374.2/18

Left In: 0.008+/-0.000 χ^2/NDF :10629.9/1

Left: 0.007+/-0.000 χ^2/NDF : 26088.2/4

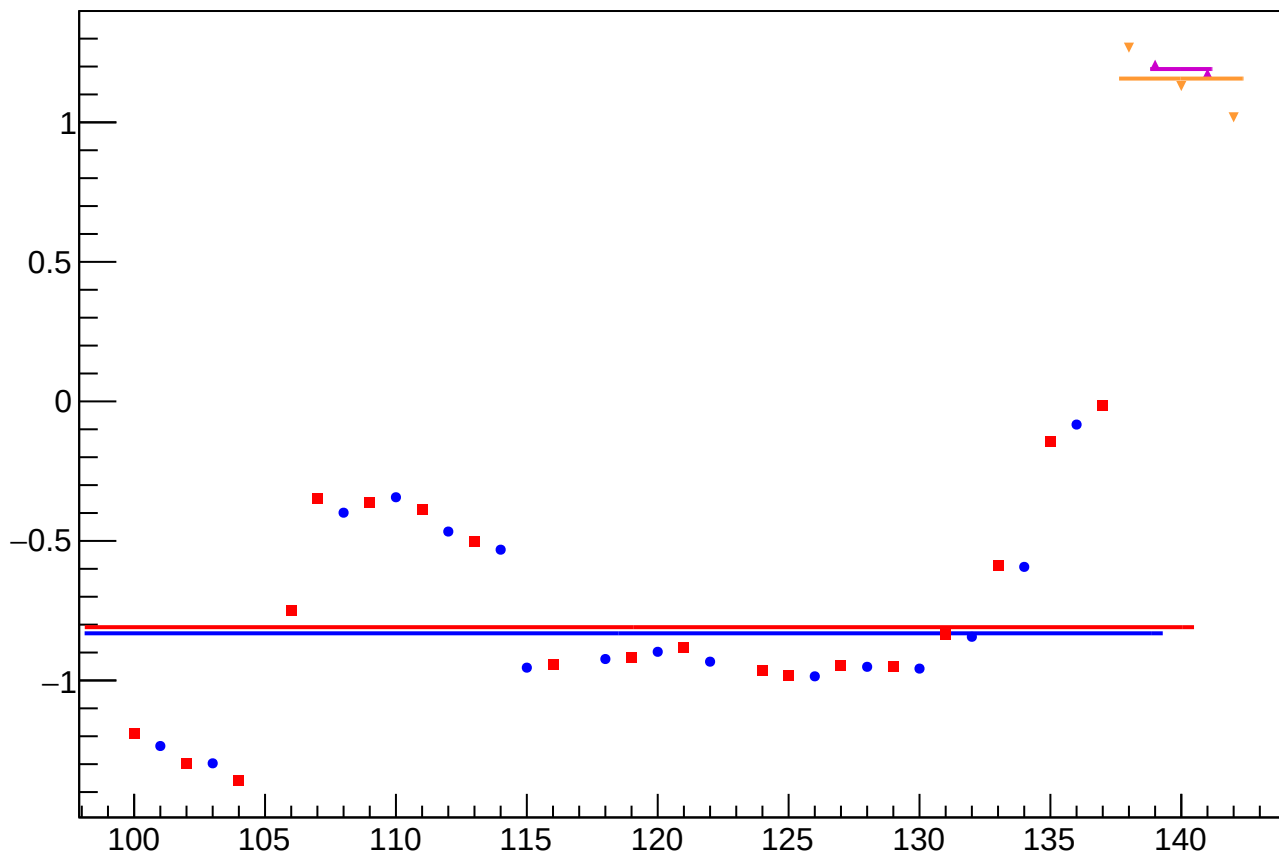
Right: 0.006+/-0.000 χ^2/NDF : 119093.4/34

In: 0.006+/-0.000 χ^2/NDF :223616.9/17

Out: 0.006+/-0.000 χ^2/NDF :243478.6/21

All: 0.006+/-0.000 χ^2/NDF : 467446.9/39

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831 ± 0.000 $\chi^2/\text{NDF}: 7112259663.3/15$

Left Out: 1.157 ± 0.000 $\chi^2/\text{NDF}: 120046946.5/2$

Right Out: -0.809 ± 0.000 $\chi^2/\text{NDF}: 8146337898.7/18$

Left In: 1.191 ± 0.000 $\chi^2/\text{NDF}: 2582653.9/1$

Left: 1.172 ± 0.000 $\chi^2/\text{NDF}: 129315675.6/4$

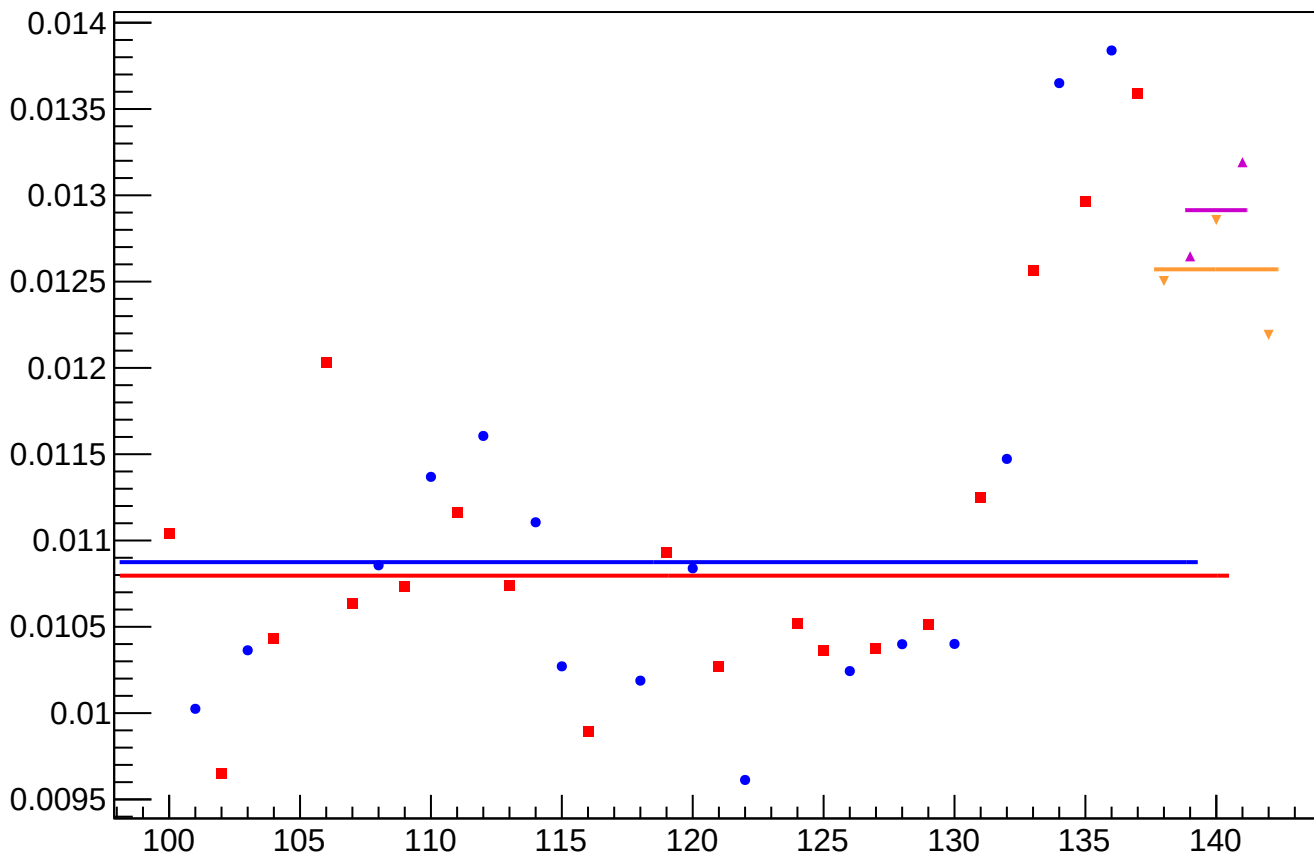
Right: -0.820 ± 0.000 $\chi^2/\text{NDF}: 15273298764.6/34$

In: -0.533 ± 0.000 $\chi^2/\text{NDF}: 43037313573.8/17$

Out: -0.471 ± 0.000 $\chi^2/\text{NDF}: 49456619857.4/21$

All: -0.501 ± 0.000 $\chi^2/\text{NDF}: 92629738610.2/$

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 157612.7/15

Left Out: 0.013+/-0.000 χ^2/NDF :1712.4/2

Right Out: 0.011+/-0.000 χ^2/NDF : 99122.1/18

Left In: 0.013+/-0.000 χ^2/NDF :1531.0/1

Left: 0.013+/-0.000 χ^2/NDF : 4588.7/4

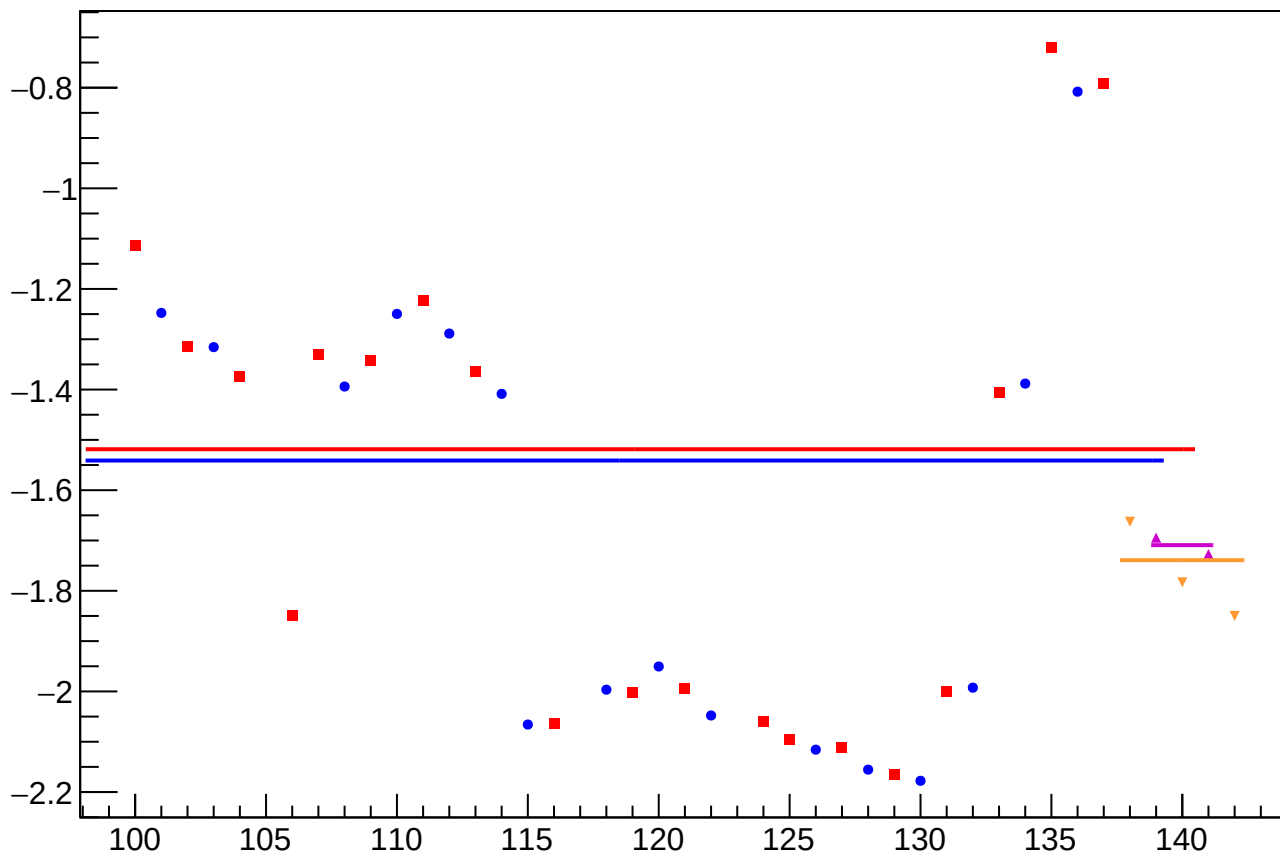
Right: 0.011+/-0.000 χ^2/NDF : 257107.2/34

In: 0.011+/-0.000 χ^2/NDF :232212.5/17

Out: 0.011+/-0.000 χ^2/NDF :167971.5/21

All: 0.011+/-0.000 χ^2/NDF : 400583.8/39

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.541+/-0.000 χ^2/NDF : 162409397922.2/15

Left Out: -1.739+/-0.000 χ^2/NDF : 1287403620.1/2

Right Out: -1.519+/-0.000 χ^2/NDF : 145077318641.2/18

Left In: -1.709+/-0.000 χ^2/NDF : 50014259.1/1

Left: -1.726+/-0.000 χ^2/NDF : 1431120632.9/4

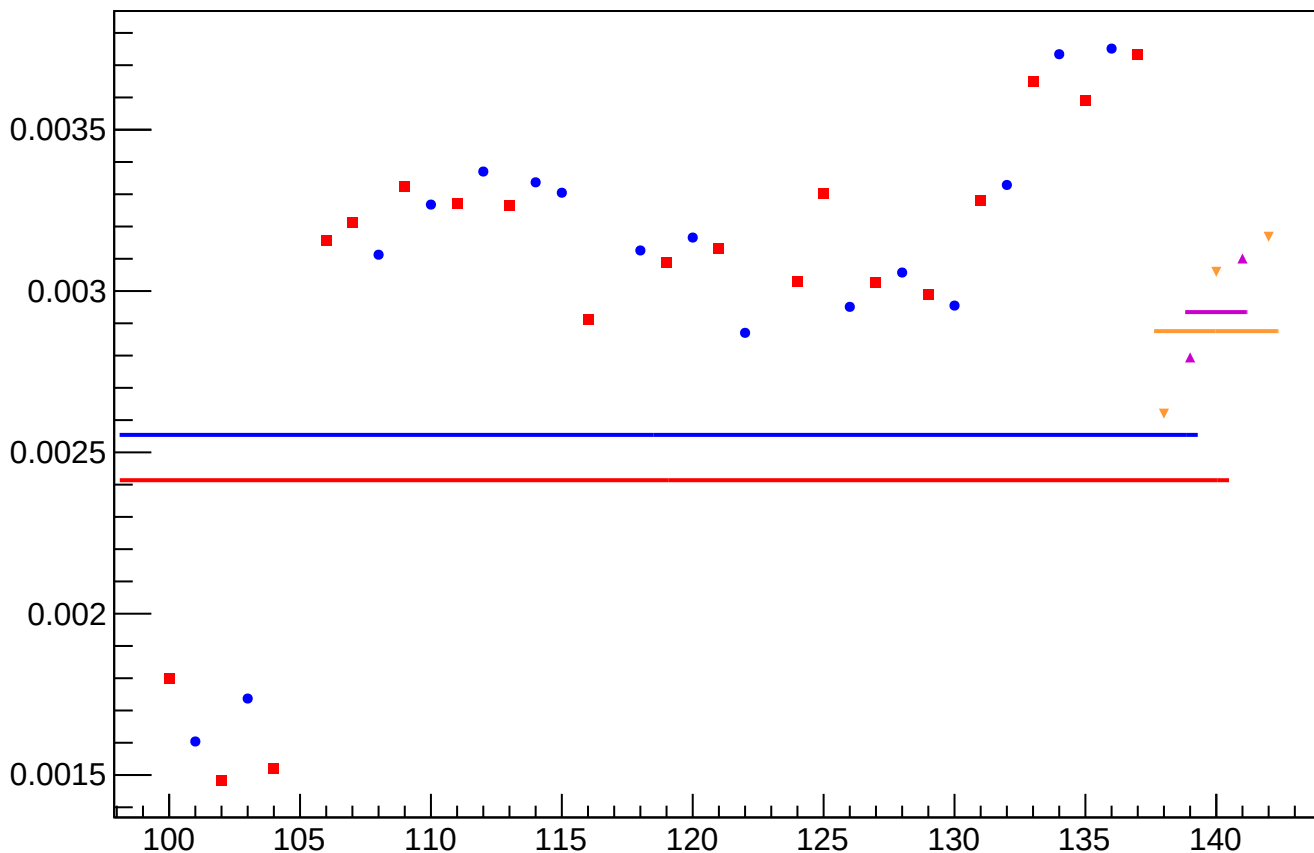
Right: -1.529+/-0.000 χ^2/NDF : 307732116783.0/34

In: -1.570+/-0.000 χ^2/NDF : 166927159219.0/17

Out: -1.560+/-0.000 χ^2/NDF : 155649736917.1/21

All: -1.565+/-0.000 χ^2/NDF : 322632410664.9

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1172434.9/15

Left Out: 0.003+/-0.000 χ^2/NDF :26842.5/2

Right Out: 0.002+/-0.000 χ^2/NDF : 1546830.8/18

Left In: 0.003+/-0.000 χ^2/NDF :8879.9/1

Left: 0.003+/-0.000 χ^2/NDF : 36456.3/4

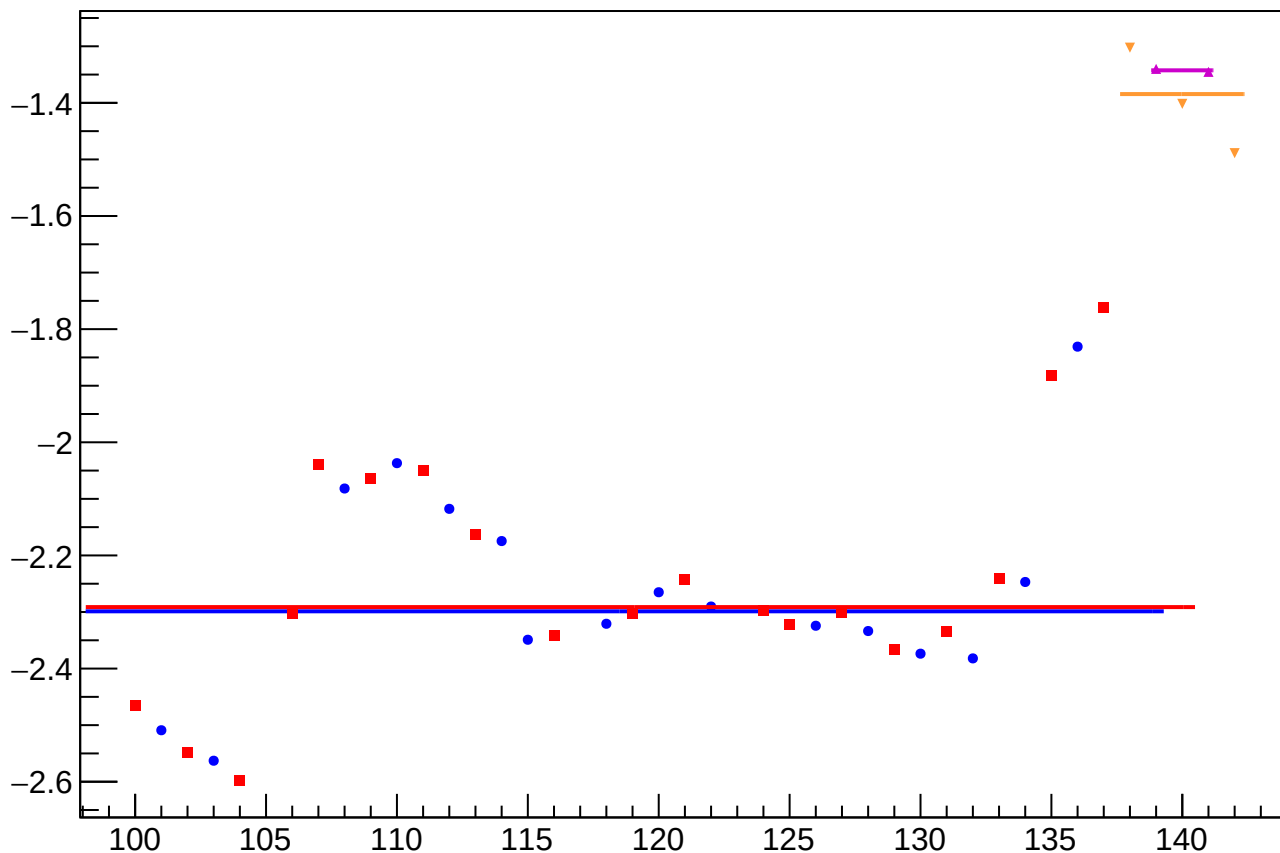
Right: 0.002+/-0.000 χ^2/NDF : 2738423.5/34

In: 0.003+/-0.000 χ^2/NDF :1227063.8/17

Out: 0.003+/-0.000 χ^2/NDF :1655164.3/21

All: 0.003+/-0.000 χ^2/NDF : 2898817.5/39

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.299+/-0.000 χ^2/NDF : 6129071089.8/15

Left Out: -1.384+/-0.000 χ^2/NDF : 137092025.7/2

Right Out: -2.291+/-0.000 χ^2/NDF : 6831007568.9/18

Left In: -1.342+/-0.000 χ^2/NDF : 145810.5/1

Left: -1.366+/-0.000 χ^2/NDF : 157996652.2/4

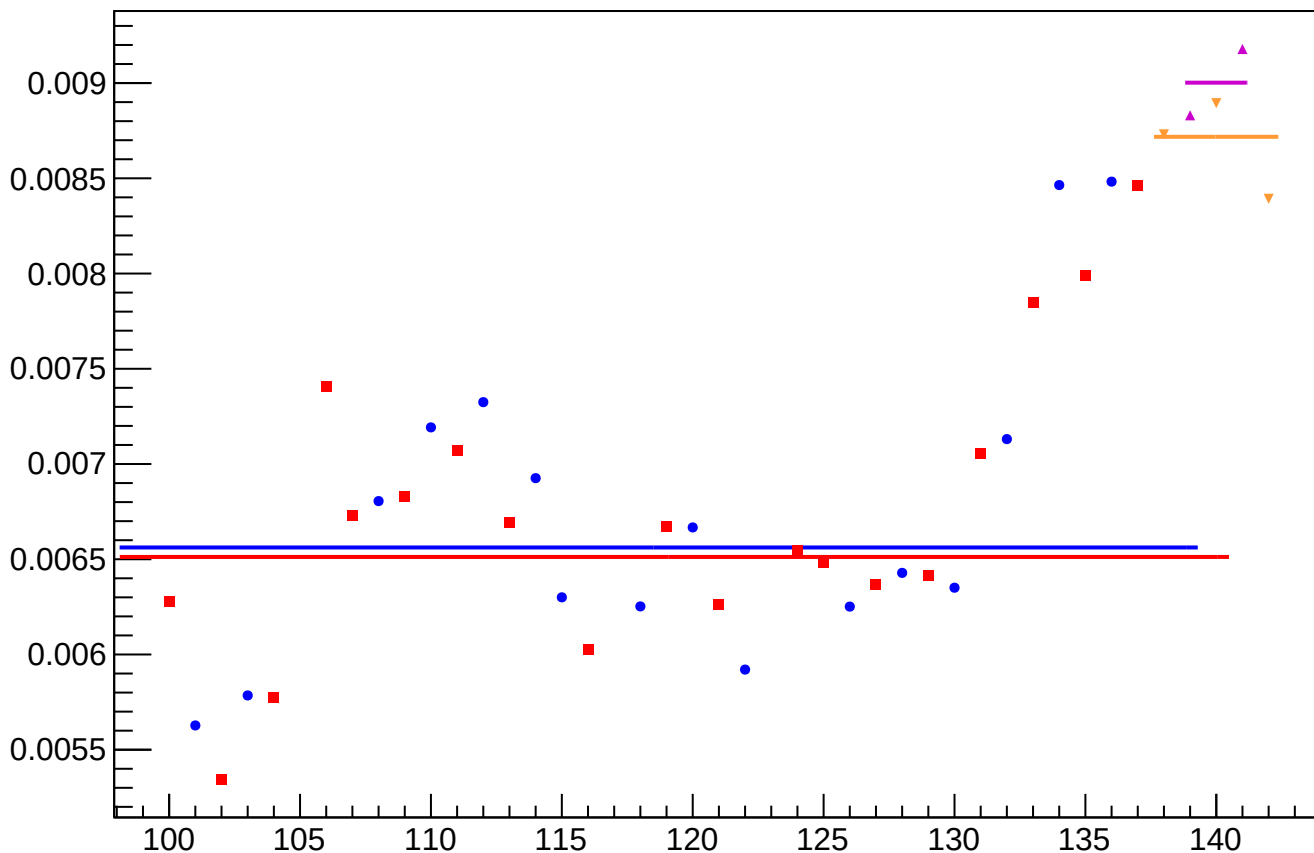
Right: -2.295+/-0.000 χ^2/NDF : 12964639512.9/34

In: -2.188+/-0.000 χ^2/NDF : 23202381629.8/17

Out: -2.167+/-0.000 χ^2/NDF : 25875459173.0/21

All: -2.177+/-0.000 χ^2/NDF : 49118918659.1/4

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 221890.3/15

Left Out: 0.009+/-0.000 χ^2/NDF :1954.0/2

Right Out: 0.007+/-0.000 χ^2/NDF : 184961.7/18

Left In: 0.009+/-0.000 χ^2/NDF :1279.9/1

Left: 0.009+/-0.000 χ^2/NDF : 5137.3/4

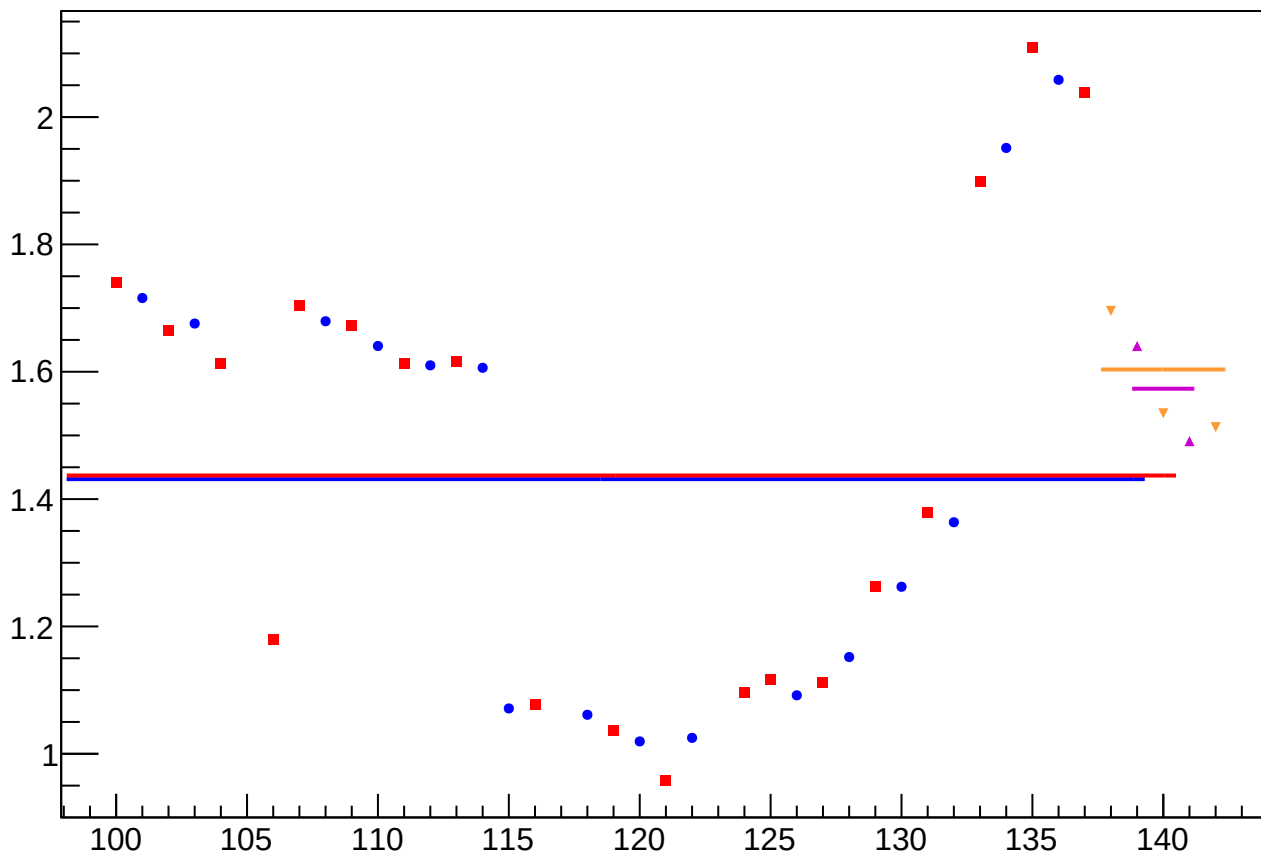
Right: 0.007+/-0.000 χ^2/NDF : 407258.0/34

In: 0.007+/-0.000 χ^2/NDF :445525.5/17

Out: 0.007+/-0.000 χ^2/NDF :410649.1/21

All: 0.007+/-0.000 χ^2/NDF : 856346.7/39

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.431+/-0.000 χ^2/NDF : 189180734956.1/15

Left Out: 1.604+/-0.000 χ^2/NDF : 625330617.3/2

Right Out: 1.437+/-0.000 χ^2/NDF : 182019221175.5/18

Left In: 1.573+/-0.000 χ^2/NDF : 416294982.4/1

Left: 1.590+/-0.000 χ^2/NDF : 1078984202.9/4

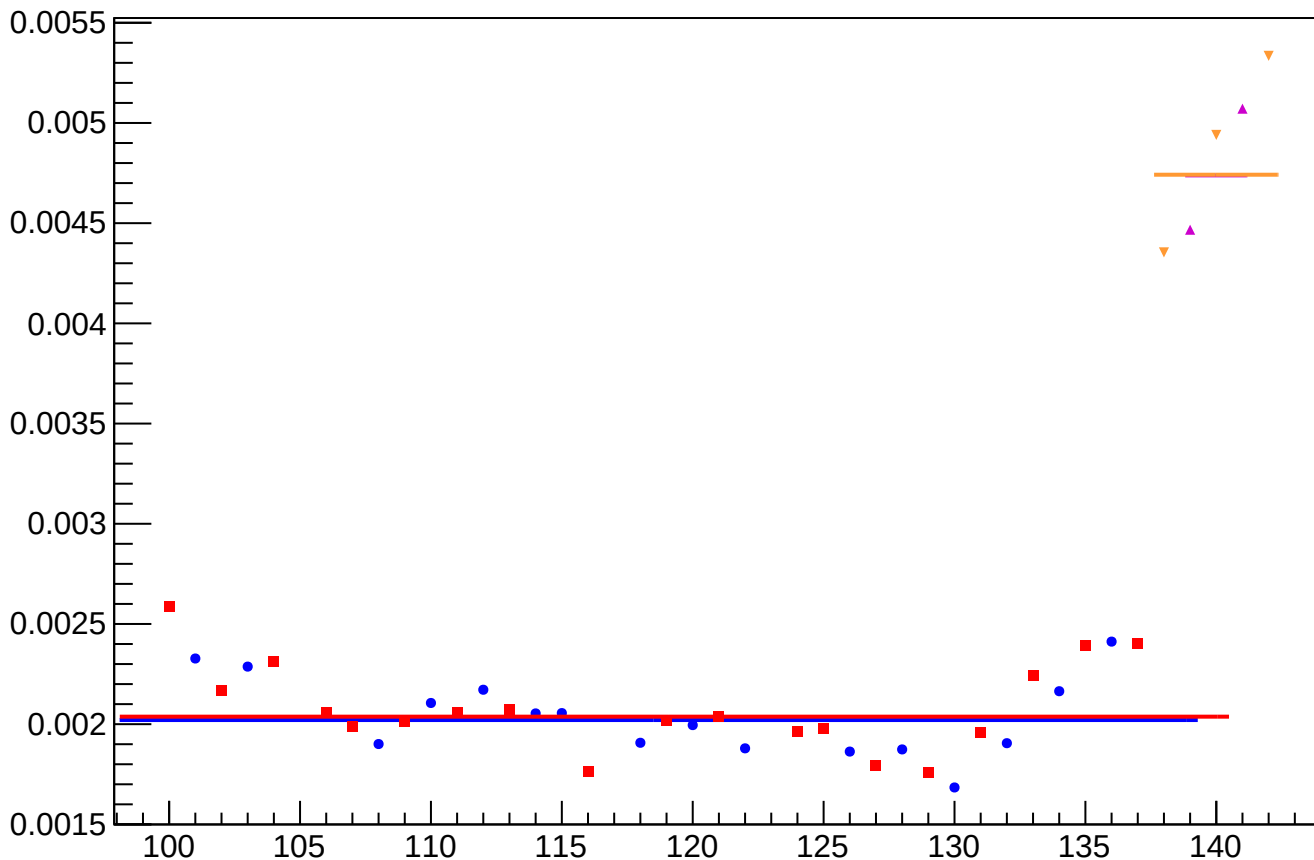
Right: 1.434+/-0.000 χ^2/NDF : 371226177704.8/34

In: 1.438+/-0.000 χ^2/NDF : 191050847783.3/17

Out: 1.446+/-0.000 χ^2/NDF : 184995343883.3/21

All: 1.442+/-0.000 χ^2/NDF : 376101344329.8

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 154923.3/15

Left Out: 0.005+/-0.000 χ^2/NDF :25231.3/2

Right Out: 0.002+/-0.000 χ^2/NDF : 113640.4/18

Left In: 0.005+/-0.000 χ^2/NDF :13615.4/1

Left: 0.005+/-0.000 χ^2/NDF : 38847.6/4

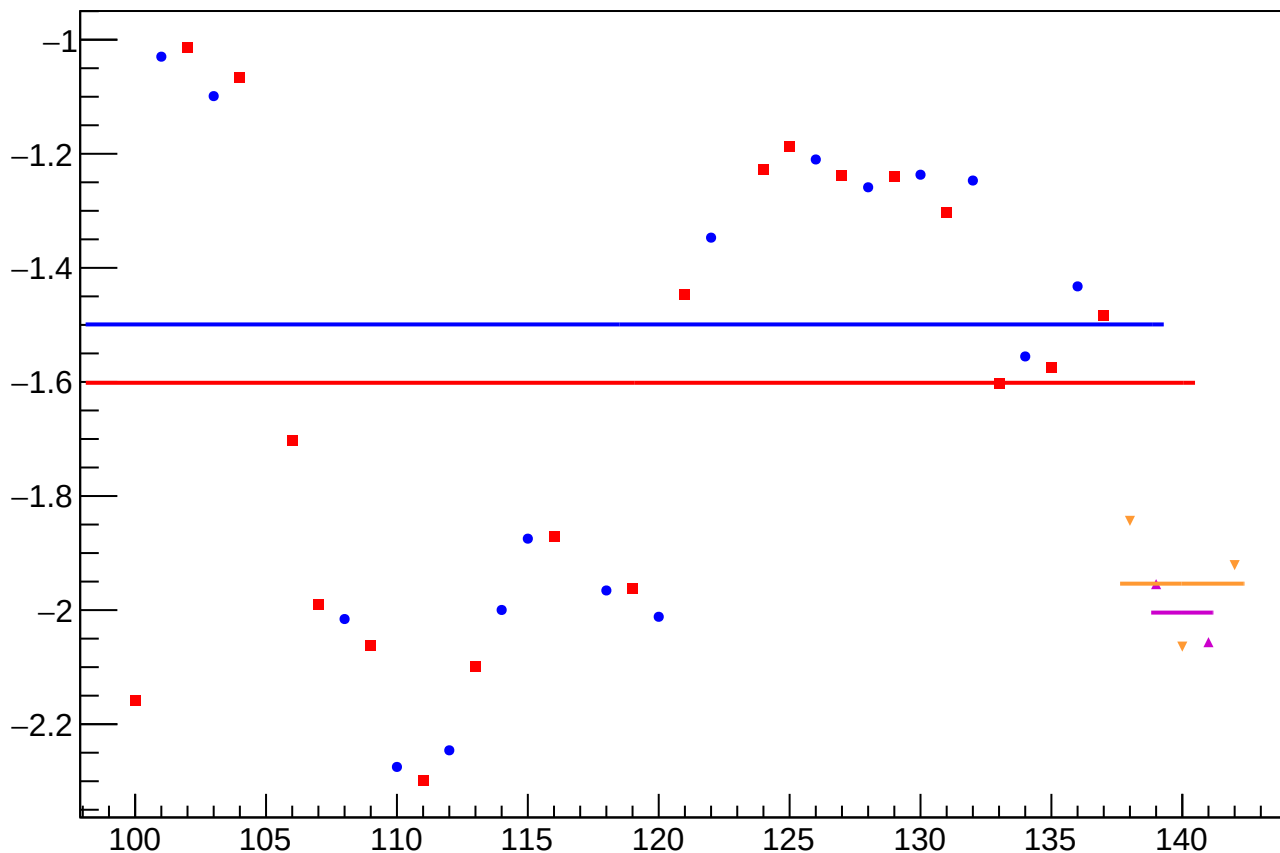
Right: 0.002+/-0.000 χ^2/NDF : 269026.9/34

In: 0.002+/-0.000 χ^2/NDF :1233499.1/17

Out: 0.002+/-0.000 χ^2/NDF :1378287.0/21

All: 0.002+/-0.000 χ^2/NDF : 2614106.4/39

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.499+/-0.000 χ^2/NDF : 22930357522.2/15

Left Out: -1.954+/-0.000 χ^2/NDF : 650075298.7/2

Right Out: -1.601+/-0.000 χ^2/NDF : 28324914147.6/18

Left In: -2.004+/-0.000 χ^2/NDF : 146416551.4/1

Left: -1.977+/-0.000 χ^2/NDF : 875149770.0/4

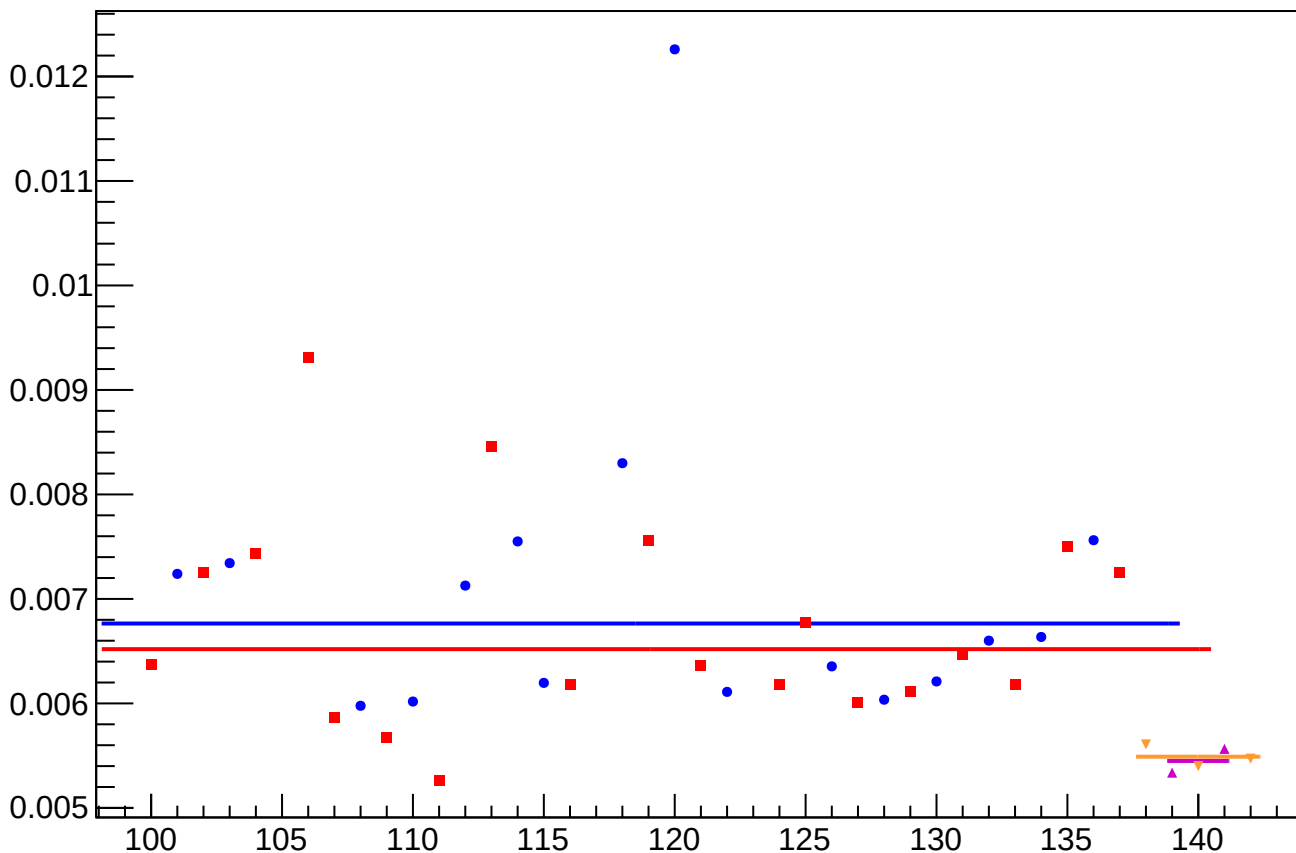
Right: -1.554+/-0.000 χ^2/NDF : 52047267484.5/34

In: -1.643+/-0.000 χ^2/NDF : 33401954420.1/17

Out: -1.704+/-0.000 χ^2/NDF : 34817604362.8/21

All: -1.676+/-0.000 χ^2/NDF : 68606790448.2/34

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 238566.1/15

Left Out: 0.005+/-0.000 χ^2/NDF :1133.8/2

Right Out: 0.007+/-0.000 χ^2/NDF : 245428.1/18

Left In: 0.005+/-0.000 χ^2/NDF :1462.6/1

Left: 0.005+/-0.000 χ^2/NDF : 2698.0/4

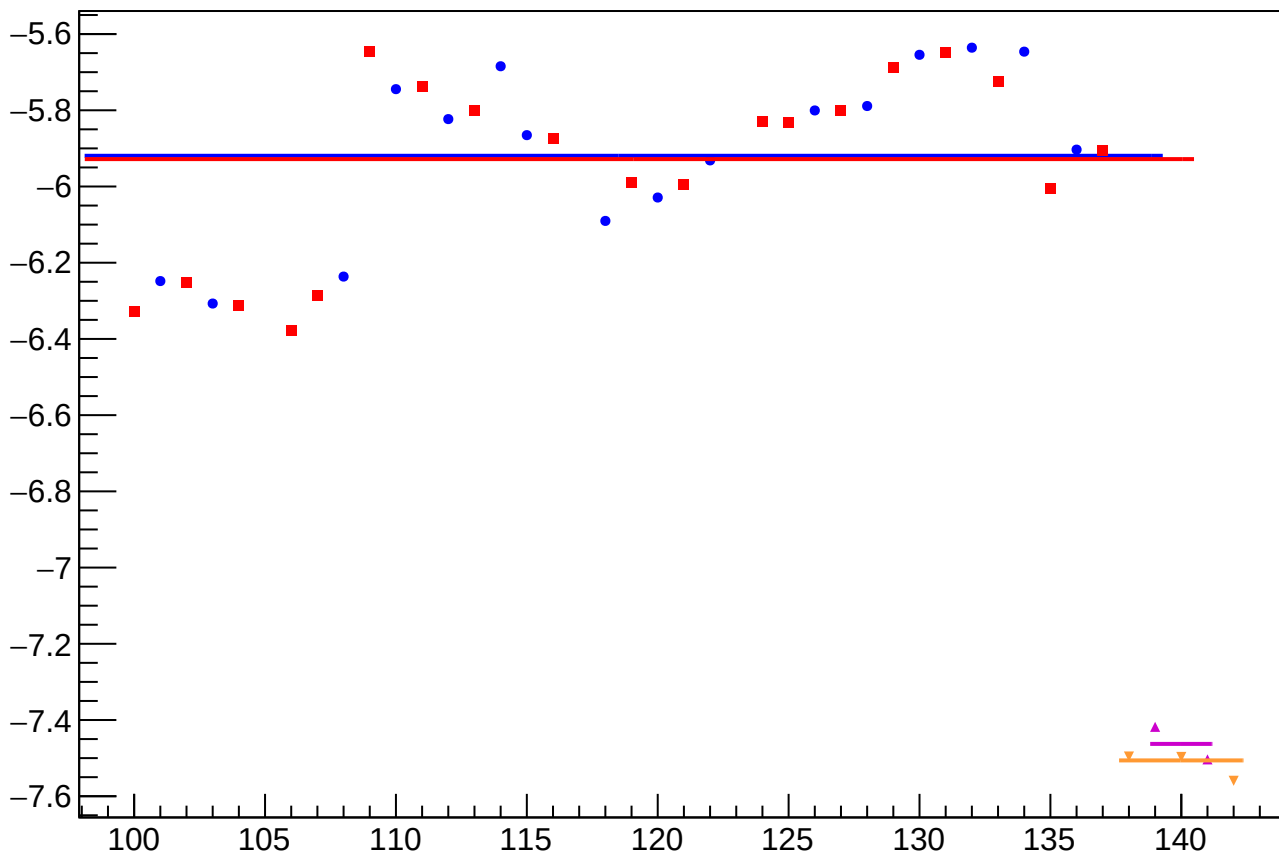
Right: 0.007+/-0.000 χ^2/NDF : 493094.9/34

In: 0.006+/-0.000 χ^2/NDF :380003.4/17

Out: 0.006+/-0.000 χ^2/NDF :346386.1/21

All: 0.006+/-0.000 χ^2/NDF : 732435.8/39

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.919+/-0.000 χ^2/NDF : 11742457053.3/15

Left Out: -7.506+/-0.000 χ^2/NDF : 8436732.5/2

Right Out: -5.928+/-0.000 χ^2/NDF : 12641528579.2/18

Left In: -7.463+/-0.000 χ^2/NDF : 25648567.3/1

Left: -7.486+/-0.000 χ^2/NDF : 48281887.6/4

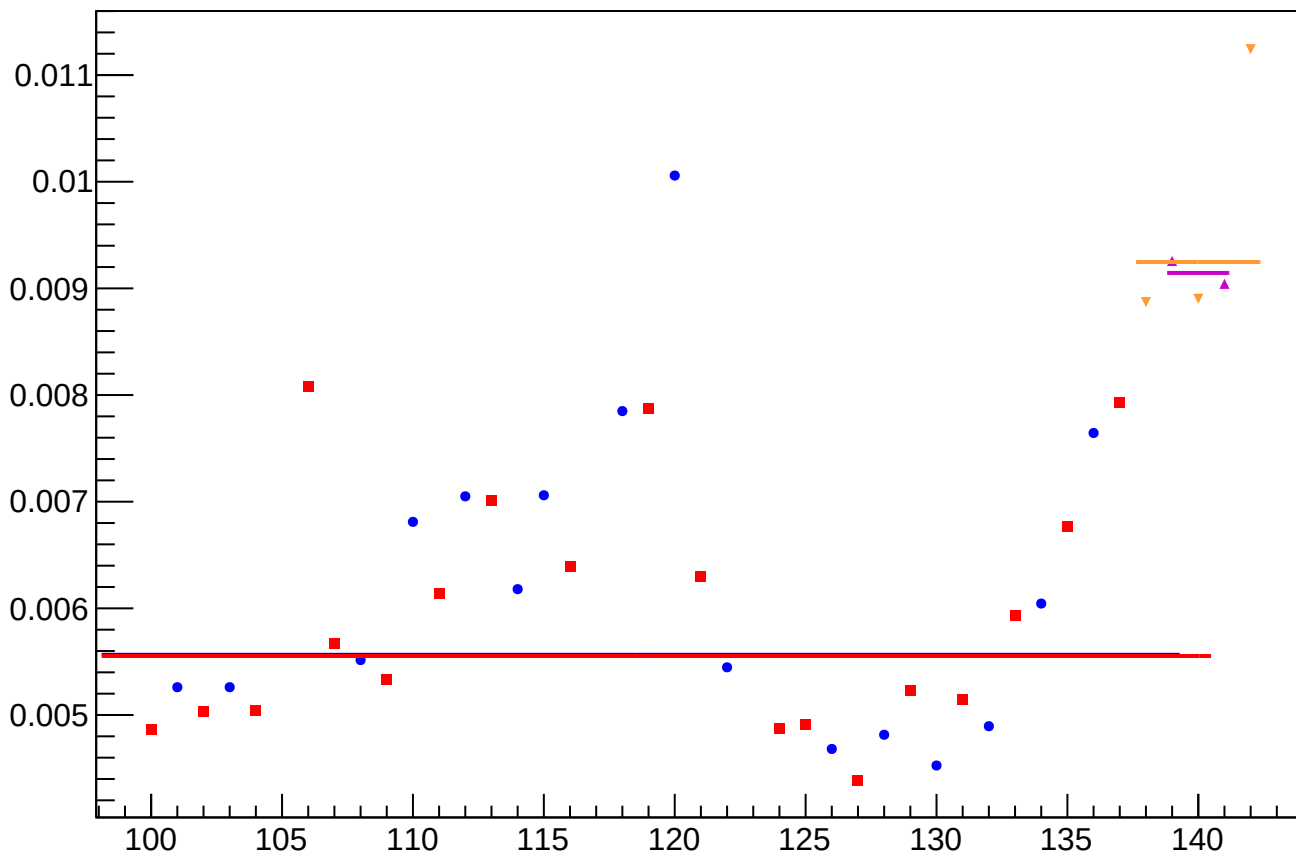
Right: -5.924+/-0.000 χ^2/NDF : 24391751979.3/34

In: -6.022+/-0.000 χ^2/NDF : 43129176775.5/17

Out: -6.042+/-0.000 χ^2/NDF : 50377213377.7/21

All: -6.032+/-0.000 χ^2/NDF : 93548817578.6/34

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 495546.3/15

Left Out: 0.009+/-0.000 χ^2/NDF :23494.6/2

Right Out: 0.006+/-0.000 χ^2/NDF : 364541.1/18

Left In: 0.009+/-0.000 χ^2/NDF :324.0/1

Left: 0.009+/-0.000 χ^2/NDF : 23977.0/4

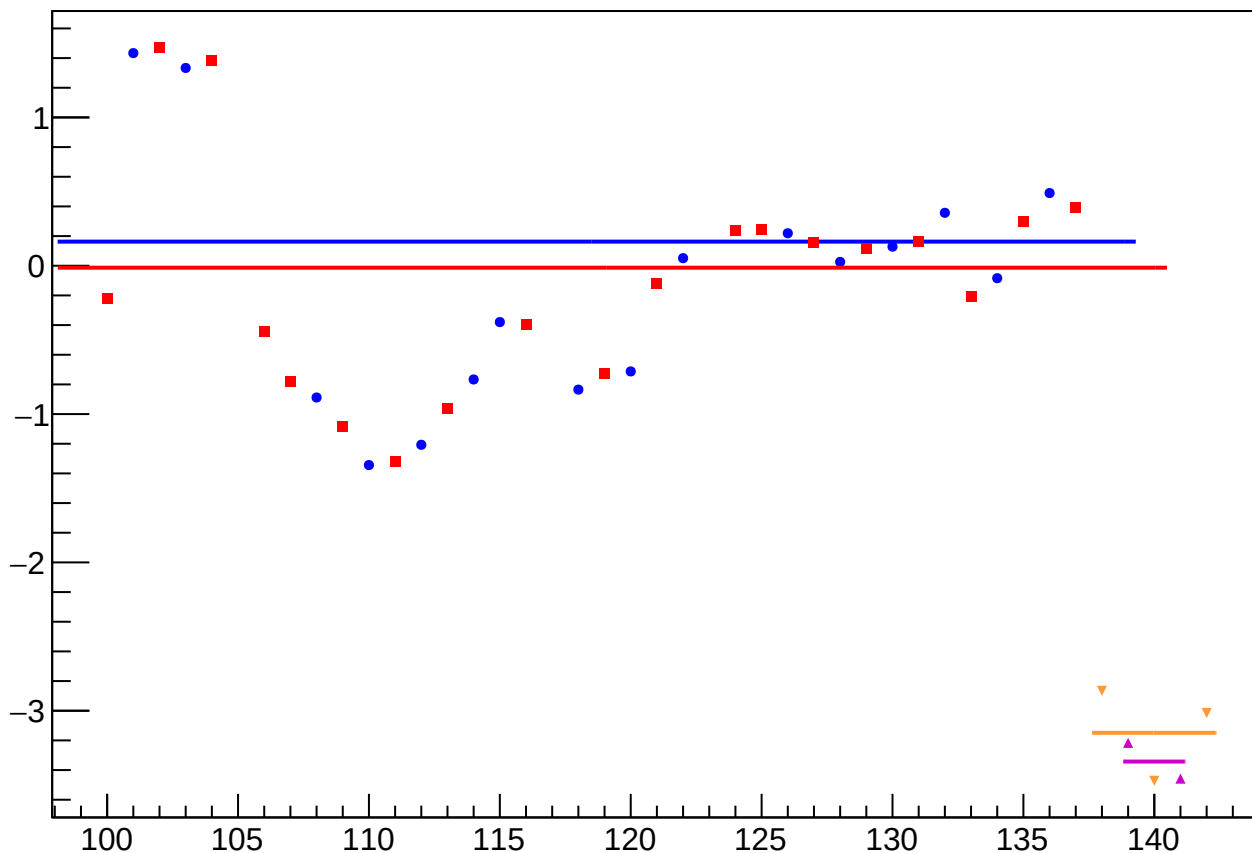
Right: 0.006+/-0.000 χ^2/NDF : 860112.8/34

In: 0.006+/-0.000 χ^2/NDF :833461.2/17

Out: 0.006+/-0.000 χ^2/NDF :801550.2/21

All: 0.006+/-0.000 χ^2/NDF : 1635072.2/39

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.163+/-0.000 χ^2/NDF : 17940034444.3/15

Left Out: -3.149+/-0.000 χ^2/NDF : 467556495.8/2

Right Out: -0.013+/-0.000 χ^2/NDF : 22484002798.8/18

Left In: -3.343+/-0.000 χ^2/NDF : 72964449.6/1

Left: -3.236+/-0.000 χ^2/NDF : 644039842.0/4

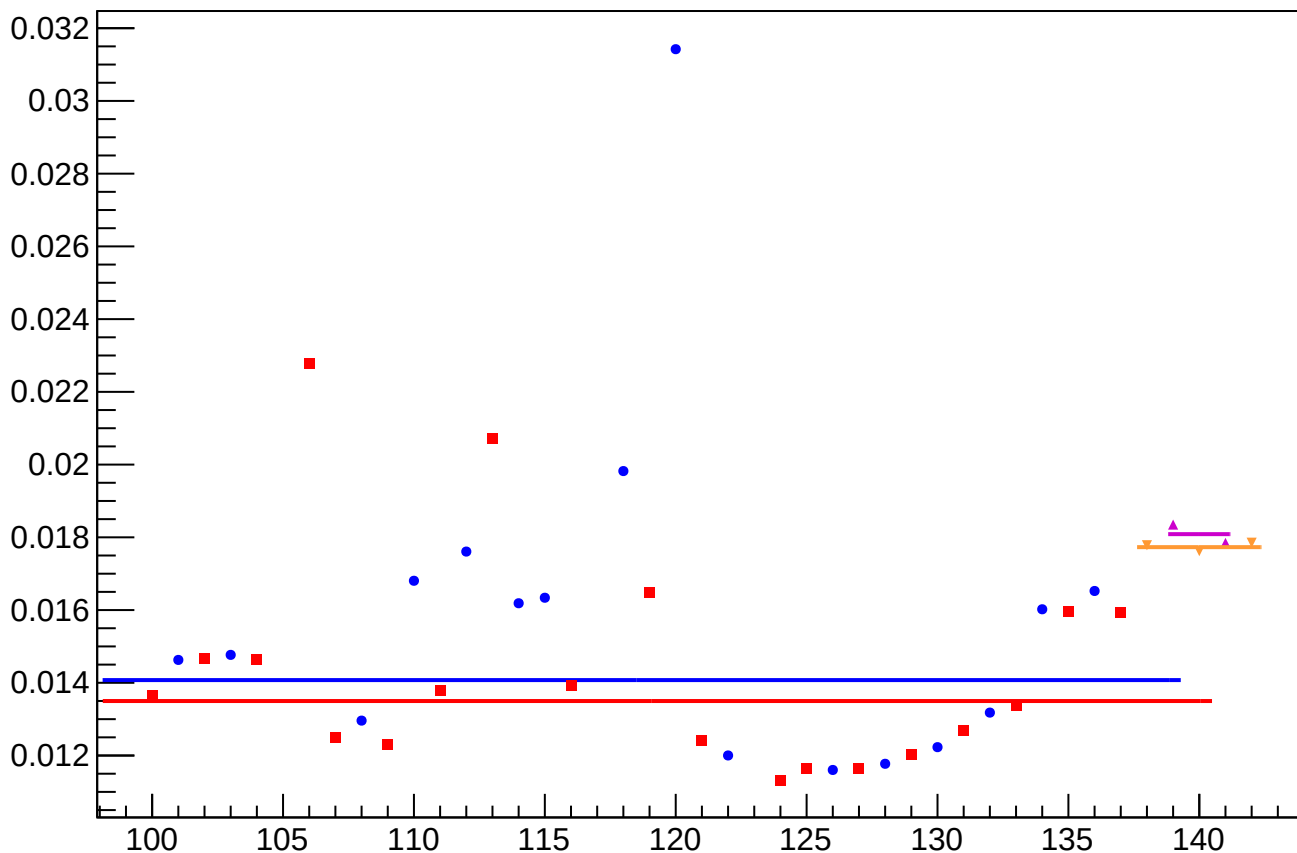
Right: 0.068+/-0.000 χ^2/NDF : 40953433371.5/34

In: -0.316+/-0.000 χ^2/NDF : 71380543926.0/17

Out: -0.454+/-0.000 χ^2/NDF : 74391998208.6/21

All: -0.390+/-0.000 χ^2/NDF : 146155105419.7

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 465421.6/15

Left Out: 0.018 $\pm$ 0.000 χ^2 /NDF:113.2/2

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 314810.3/18

Left In: 0.018 $\pm$ 0.000 χ^2 /NDF:634.0/1

Left: 0.018 $\pm$ 0.000 χ^2 /NDF: 1451.6/4

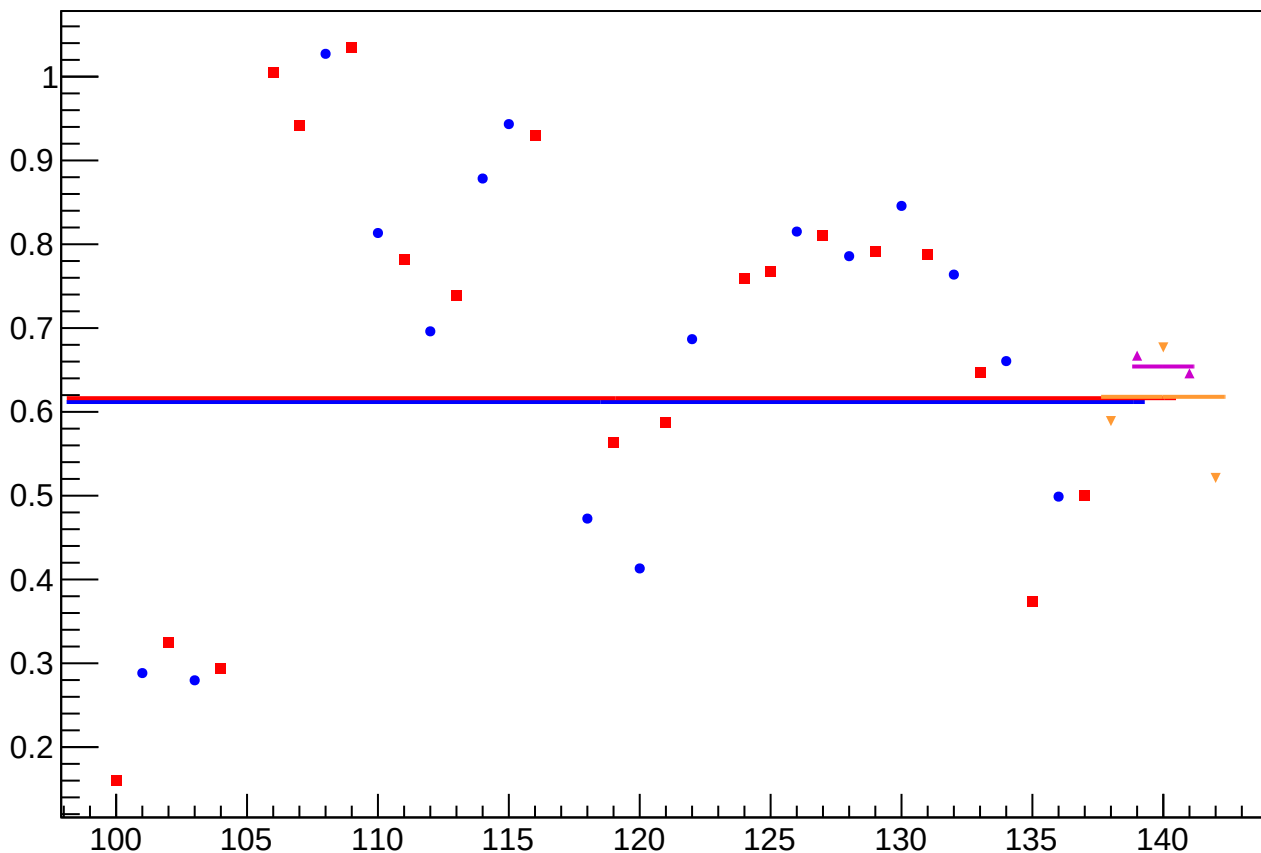
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 791602.0/34

In: 0.015 $\pm$ 0.000 χ^2 /NDF:605963.8/17

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:502256.4/21

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 1119316.8/39

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.612 $\pm$ 0.000 χ^2 /NDF: 5639014502.0/15

Left Out: 0.618 $\pm$ 0.000 χ^2 /NDF: 90041790.7/2

Right Out: 0.616 $\pm$ 0.000 χ^2 /NDF: 6419512040.7/18

Left In: 0.654 $\pm$ 0.000 χ^2 /NDF: 2335156.2/1

Left: 0.635 $\pm$ 0.000 χ^2 /NDF: 108021134.3/4

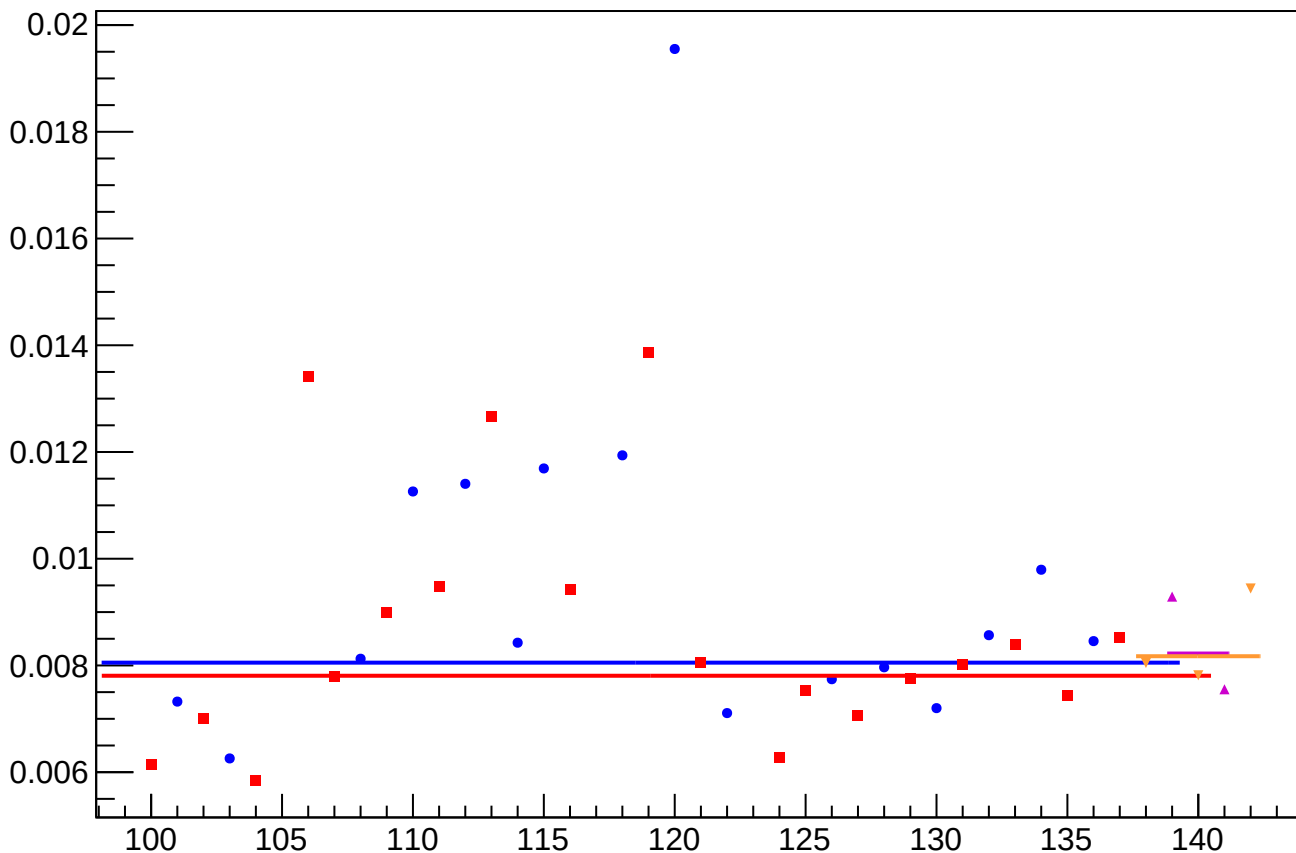
Right: 0.614 $\pm$ 0.000 χ^2 /NDF: 12059563453.6/34

In: 0.620 $\pm$ 0.000 χ^2 /NDF: 5673543427.1/17

Out: 0.617 $\pm$ 0.000 χ^2 /NDF: 6509609320.9/21

All: 0.618 $\pm$ 0.000 χ^2 /NDF: 12183767233.3/3

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 598309.5/15

Left Out: 0.008+/-0.000 χ^2/NDF :17279.2/2

Right Out: 0.008+/-0.000 χ^2/NDF : 587157.2/18

Left In: 0.008+/-0.000 χ^2/NDF :31625.3/1

Left: 0.008+/-0.000 χ^2/NDF : 48965.4/4

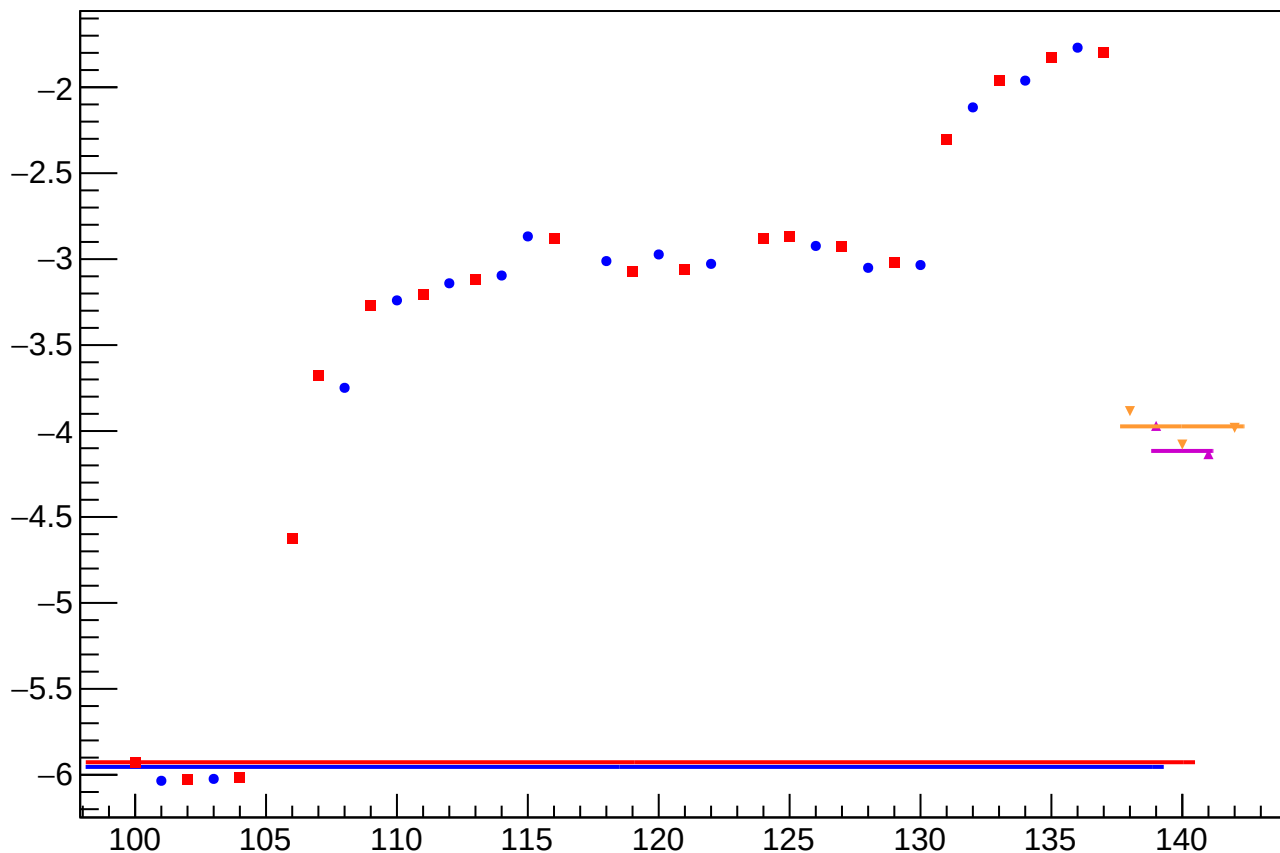
Right: 0.008+/-0.000 χ^2/NDF : 1191469.8/34

In: 0.008+/-0.000 χ^2/NDF :630980.9/17

Out: 0.008+/-0.000 χ^2/NDF :610017.1/21

All: 0.008+/-0.000 χ^2/NDF : 1246212.0/39

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.954+/-0.000

χ^2/NDF : 13099475661.5/15

Left: -4.079+/-0.000

χ^2/NDF : 8136573.1/4

Left Out: -3.973+/-0.000

χ^2/NDF : 2023012.2/2

Right: -5.942+/-0.000

χ^2/NDF : 27039435928.9/34

Right Out: -5.927+/-0.000

χ^2/NDF : 13922819741.5/18

In: -5.927+/-0.000

χ^2/NDF : 15658653315.0/17

Out: -5.915+/-0.000

χ^2/NDF : 14934600120.3/21

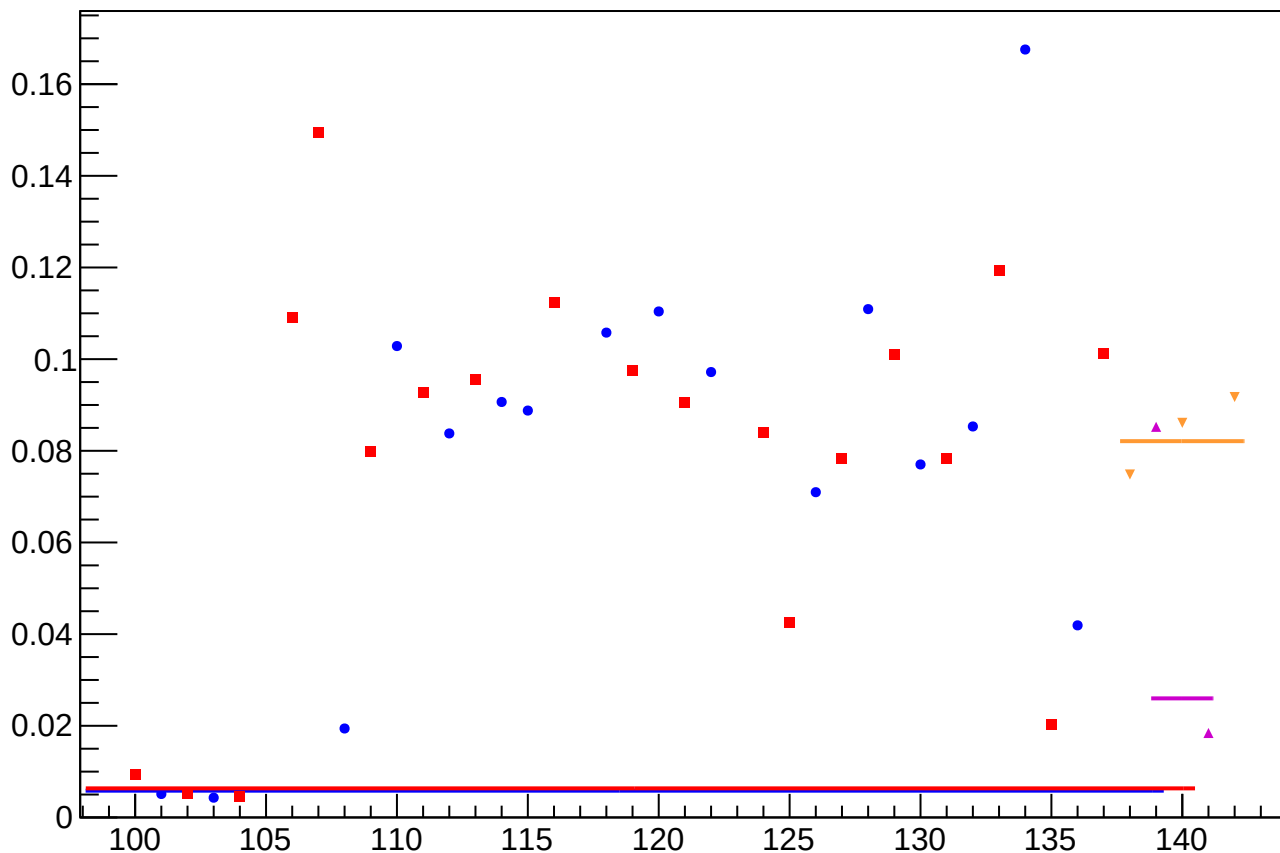
Left In: -4.116+/-0.000

χ^2/NDF : 2078769.5/1

All: -5.922+/-0.000

χ^2/NDF : 30596864295.8/

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8700553.3/15

Left Out: 0.082+/-0.000 χ^2/NDF :25082.6/2

Right Out: 0.006+/-0.000 χ^2/NDF : 8751831.3/18

Left In: 0.026+/-0.000 χ^2/NDF :687197.3/1

Left: 0.040+/-0.000 χ^2/NDF : 1957460.1/4

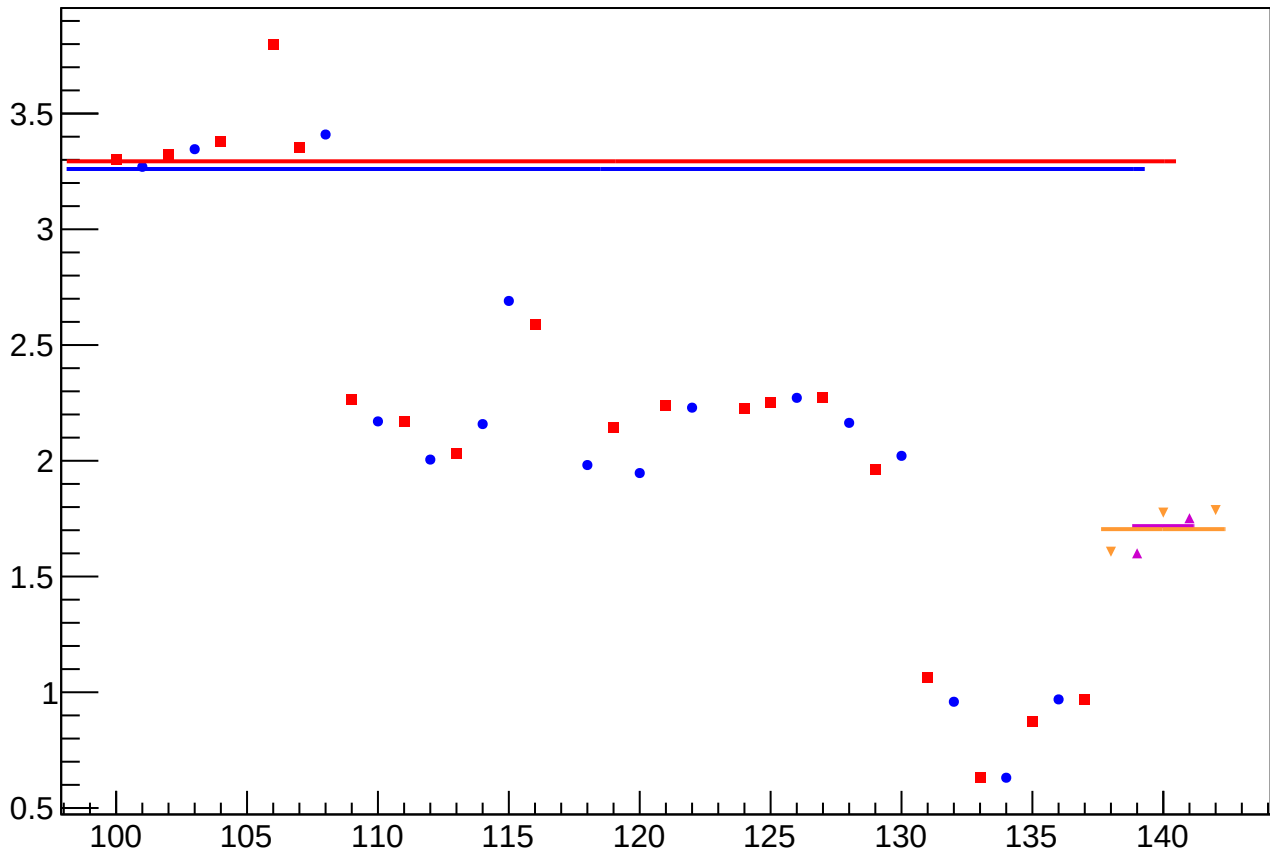
Right: 0.006+/-0.000 χ^2/NDF : 17464019.8/34

In: 0.006+/-0.000 χ^2/NDF :10001361.1/17

Out: 0.007+/-0.000 χ^2/NDF :11812875.1/21

All: 0.006+/-0.000 χ^2/NDF : 21835844.1/39

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.260+/-0.000 χ^2/NDF : 3009624113.9/15

Left Out: 1.705+/-0.000 χ^2/NDF :1632725.7/2

Right Out: 3.294+/-0.000 χ^2/NDF : 3243748149.8/18

Left In: 1.718+/-0.000 χ^2/NDF :1299400.3/1

Left: 1.712+/-0.000 χ^2/NDF : 2954446.5/4

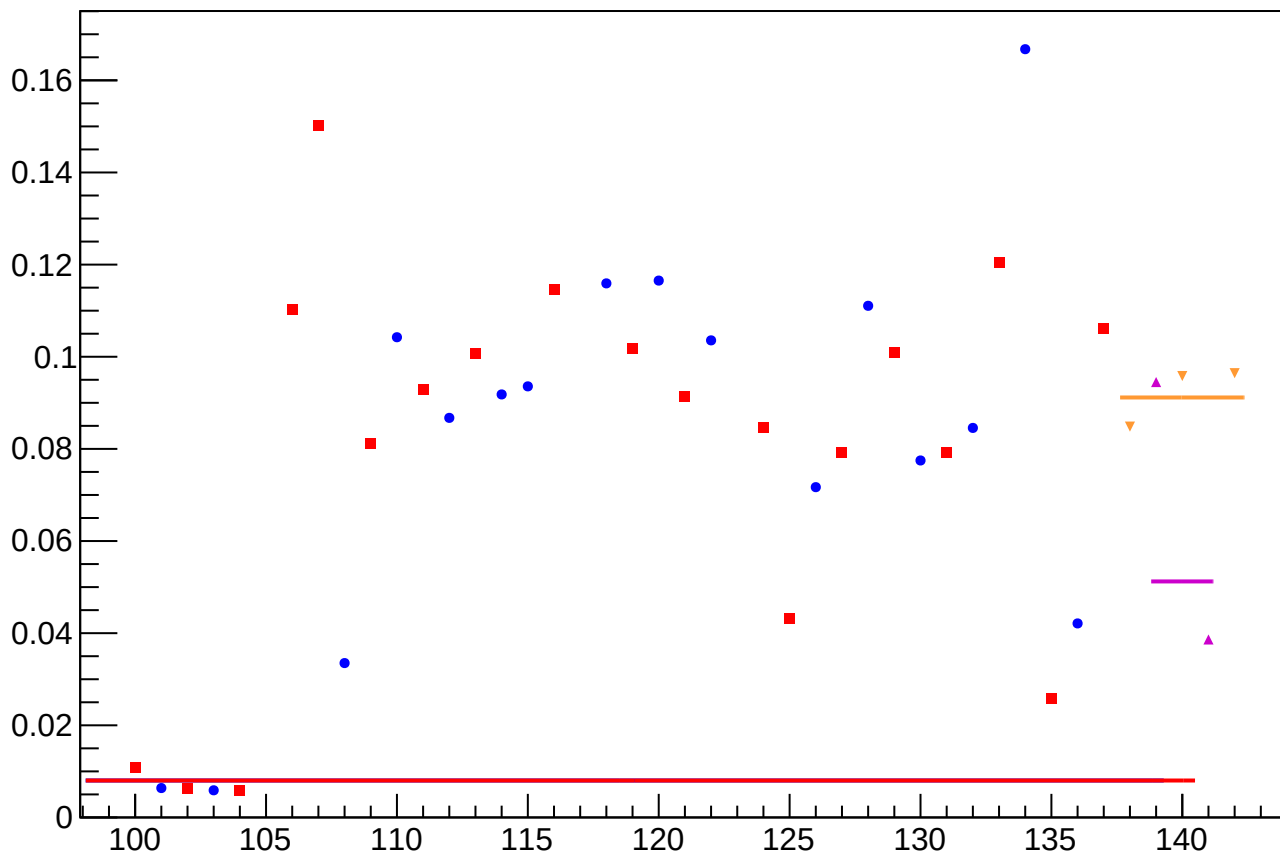
Right: 3.277+/-0.000 χ^2/NDF : 6269939296.1/34

In: 3.245+/-0.000 χ^2/NDF :3773827348.5/17

Out: 3.282+/-0.000 χ^2/NDF :3800928532.6/21

All: 3.263+/-0.000 χ^2/NDF : 7595731668.6/39

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 8415681.1/15

Left Out: 0.091+/-0.000 χ^2/NDF :13701.9/2

Right Out: 0.008+/-0.000 χ^2/NDF : 8542249.7/18

Left In: 0.051+/-0.000 χ^2/NDF :353136.5/1

Left: 0.067+/-0.000 χ^2/NDF : 786512.7/4

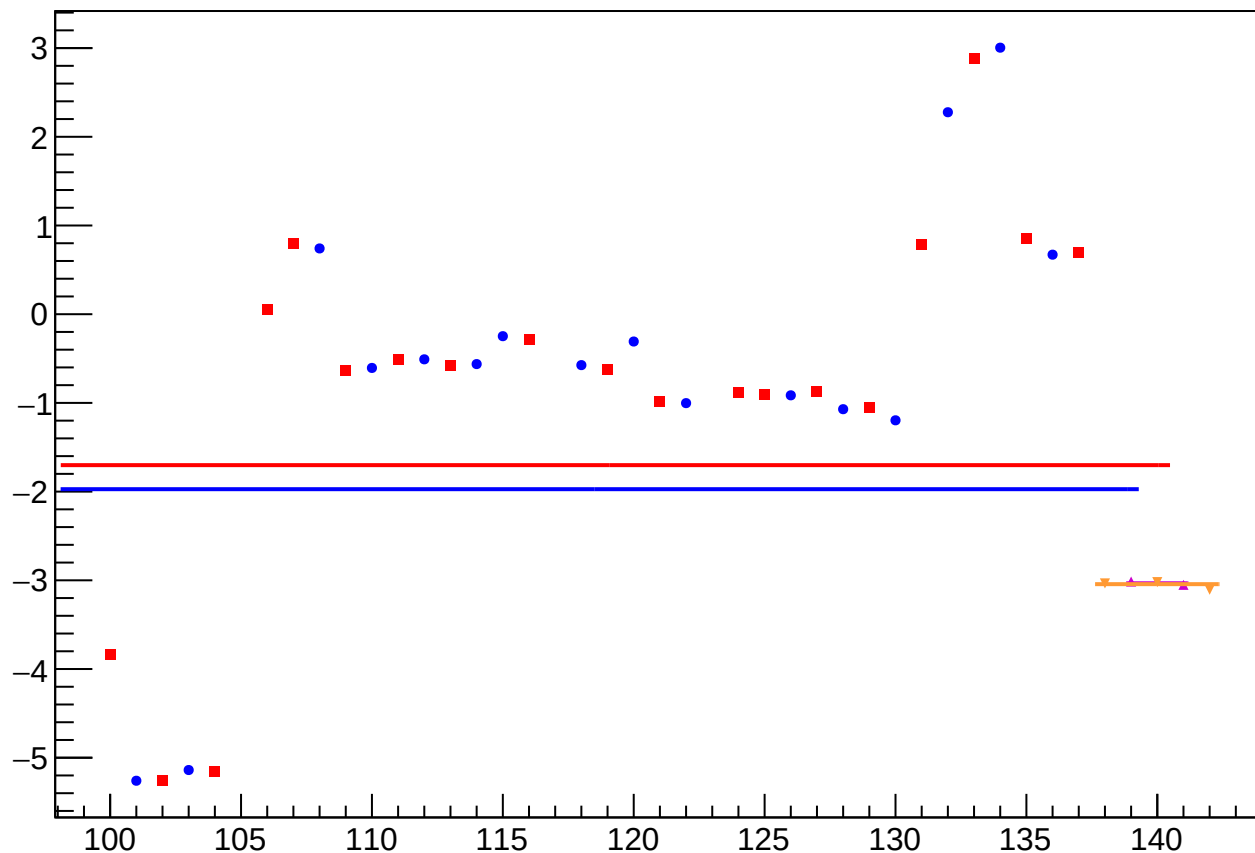
Right: 0.008+/-0.000 χ^2/NDF : 16957931.3/34

In: 0.008+/-0.000 χ^2/NDF :9965597.7/17

Out: 0.009+/-0.000 χ^2/NDF :11597875.9/21

All: 0.009+/-0.000 χ^2/NDF : 21564406.3/39

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.973+/-0.000

χ^2/NDF : 161975701237.3/15

Left: -3.039+/-0.000

χ^2/NDF : 46243500.3/4

Left Out: -3.043+/-0.000

χ^2/NDF : 35079415.6/2

Right: -1.828+/-0.000

χ^2/NDF : 331019535290.3/34

Right Out: -1.702+/-0.000

χ^2/NDF : 168156981746.0/18

In: -2.564+/-0.000

χ^2/NDF : 176197226808.3/17

Out: -2.452+/-0.000

χ^2/NDF : 194184646114.5/21

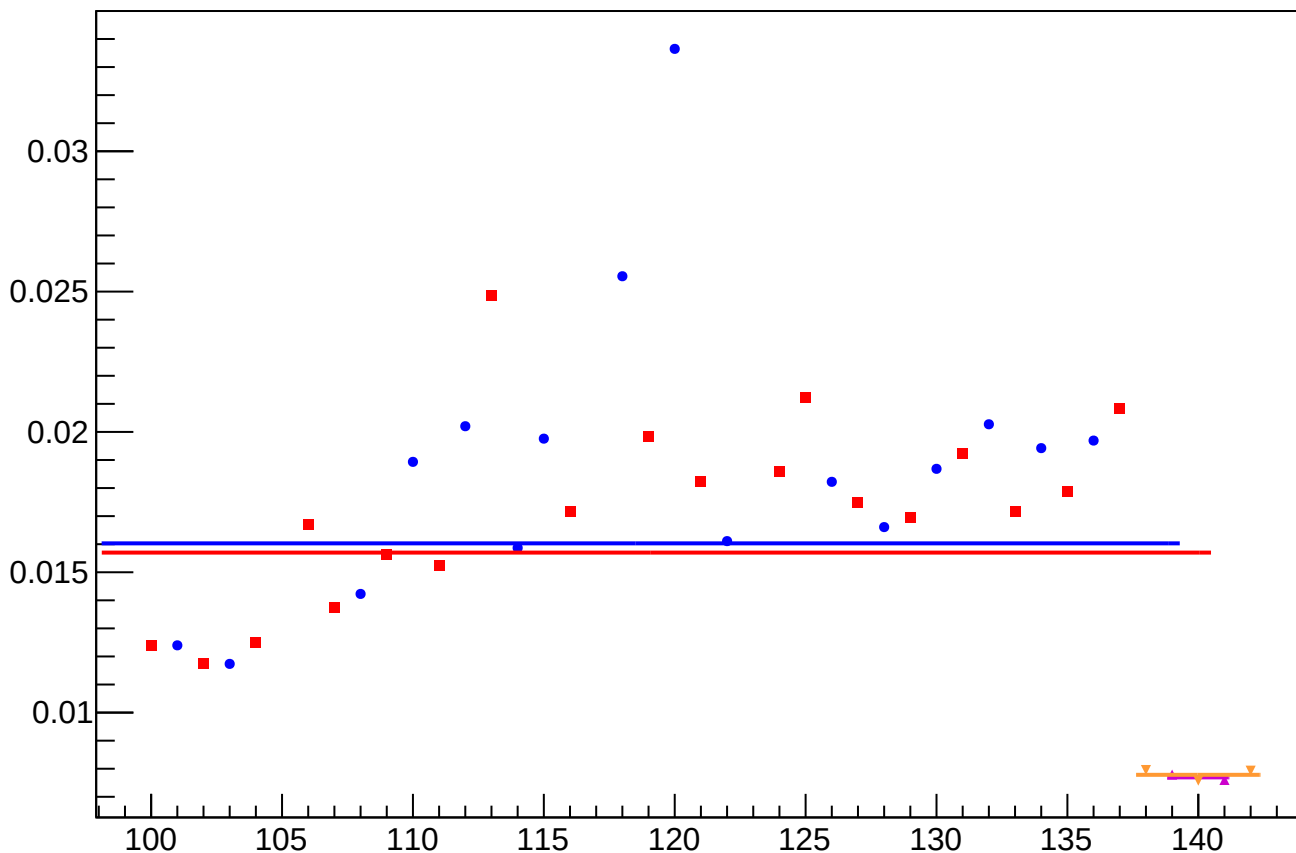
Left In: -3.033+/-0.000

χ^2/NDF : 9634122.4/1

All: -2.504+/-0.000

χ^2/NDF : 370728442894.6/10

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 735736.8/15

Left Out: 0.008+/-0.000 χ^2/NDF :2195.4/2

Right Out: 0.016+/-0.000 χ^2/NDF : 504766.0/18

Left In: 0.008+/-0.000 χ^2/NDF :513.9/1

Left: 0.008+/-0.000 χ^2/NDF : 2964.5/4

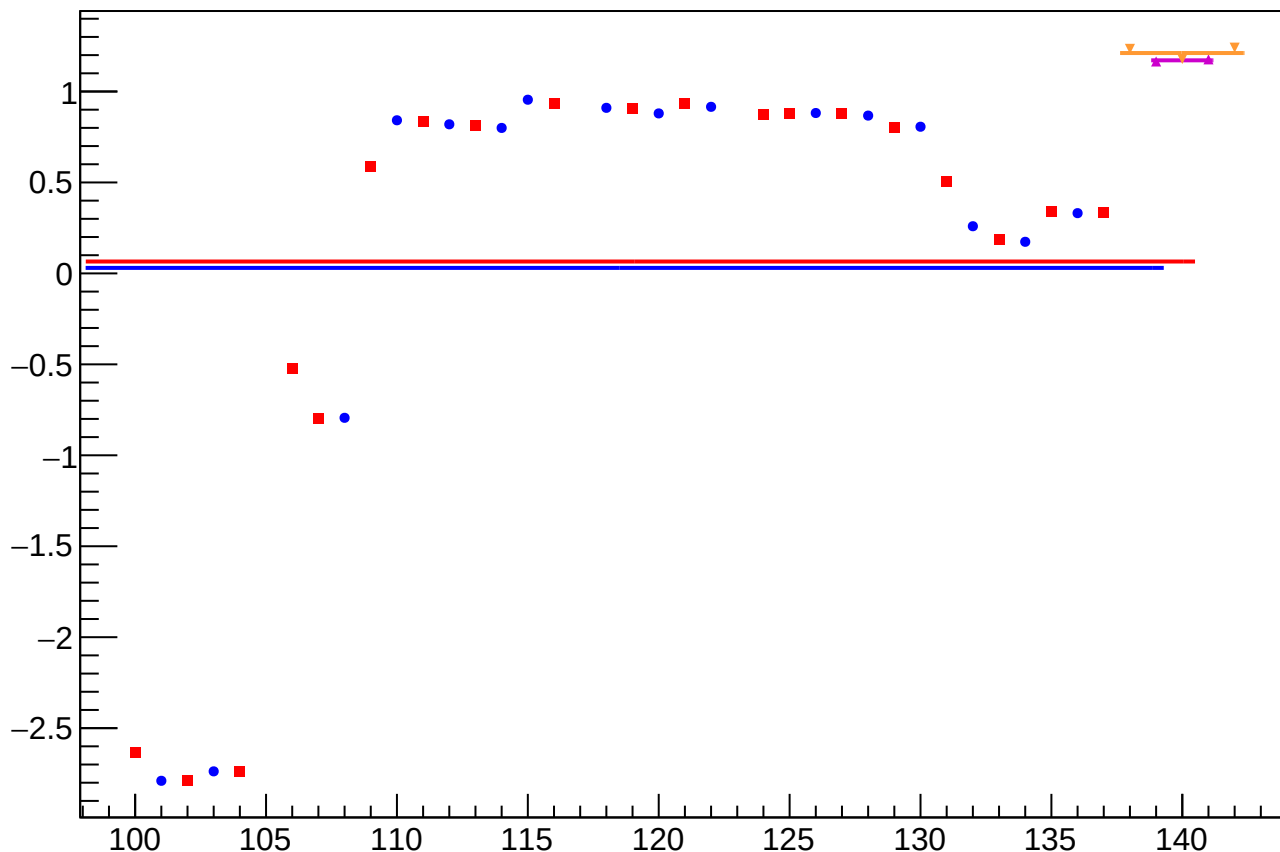
Right: 0.016+/-0.000 χ^2/NDF : 1243118.0/34

In: 0.011+/-0.000 χ^2/NDF :2493035.1/17

Out: 0.011+/-0.000 χ^2/NDF :2317319.0/21

All: 0.011+/-0.000 χ^2/NDF : 4810951.5/39

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 851677270962.0/15

Left Out: 1.211+/-0.000 χ^2/NDF : 22023704.1/2

Right Out: 0.065+/-0.000 χ^2/NDF : 935478930138.7/18

Left In: 1.171+/-0.000 χ^2/NDF : 763039.2/1

Left: 1.193+/-0.000 χ^2/NDF : 42760214.6/4

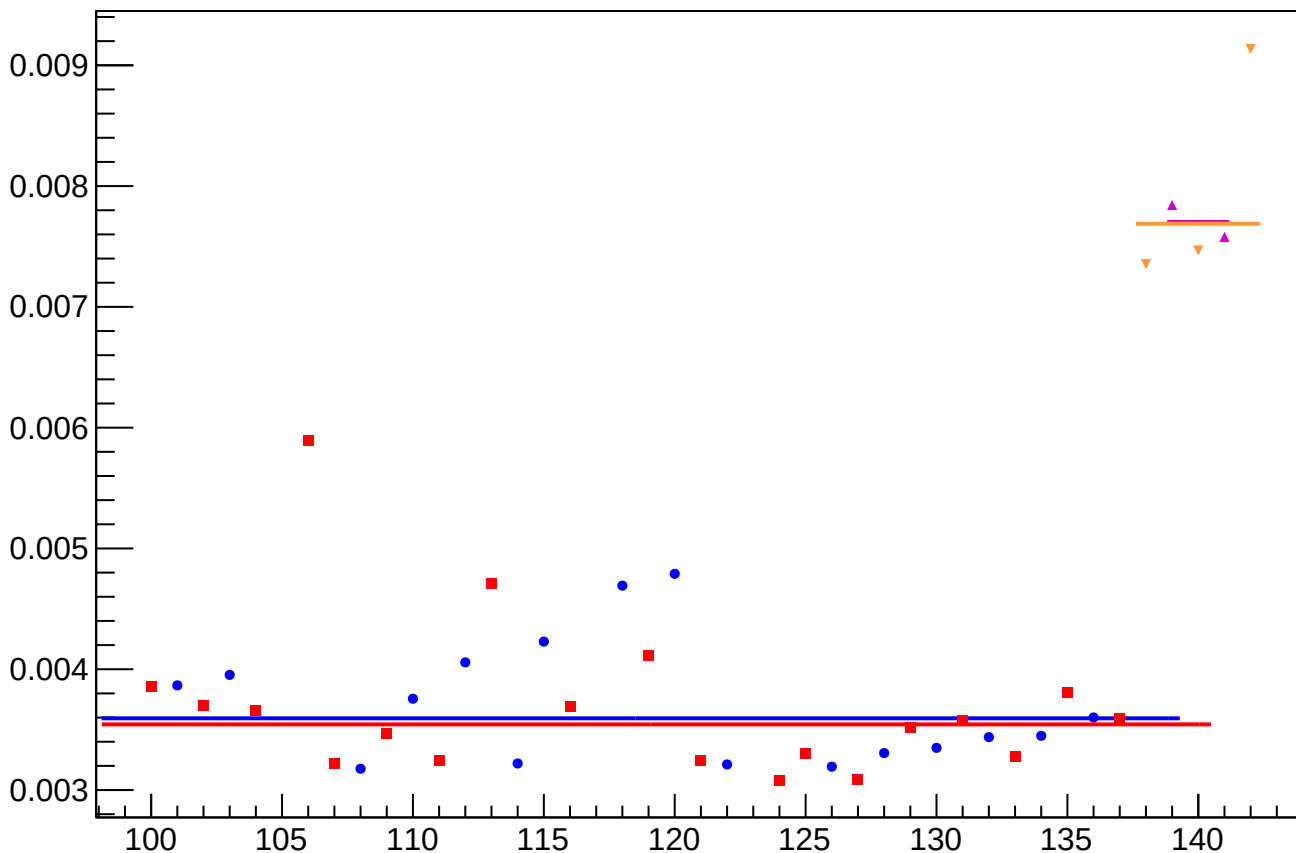
Right: 0.048+/-0.000 χ^2/NDF : 1787488269945.7/34

In: 0.078+/-0.000 χ^2/NDF : 880336374255.0/17

Out: 0.118+/-0.000 χ^2/NDF : 969227247084.3/21

All: 0.099+/-0.000 χ^2/NDF : 1850003061227.0

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 180415.0/15

Left Out: 0.008+/-0.000 χ^2/NDF :21713.7/2

Right Out: 0.004+/-0.000 χ^2/NDF : 224729.1/18

Left In: 0.008+/-0.000 χ^2/NDF :797.9/1

Left: 0.008+/-0.000 χ^2/NDF : 22517.1/4

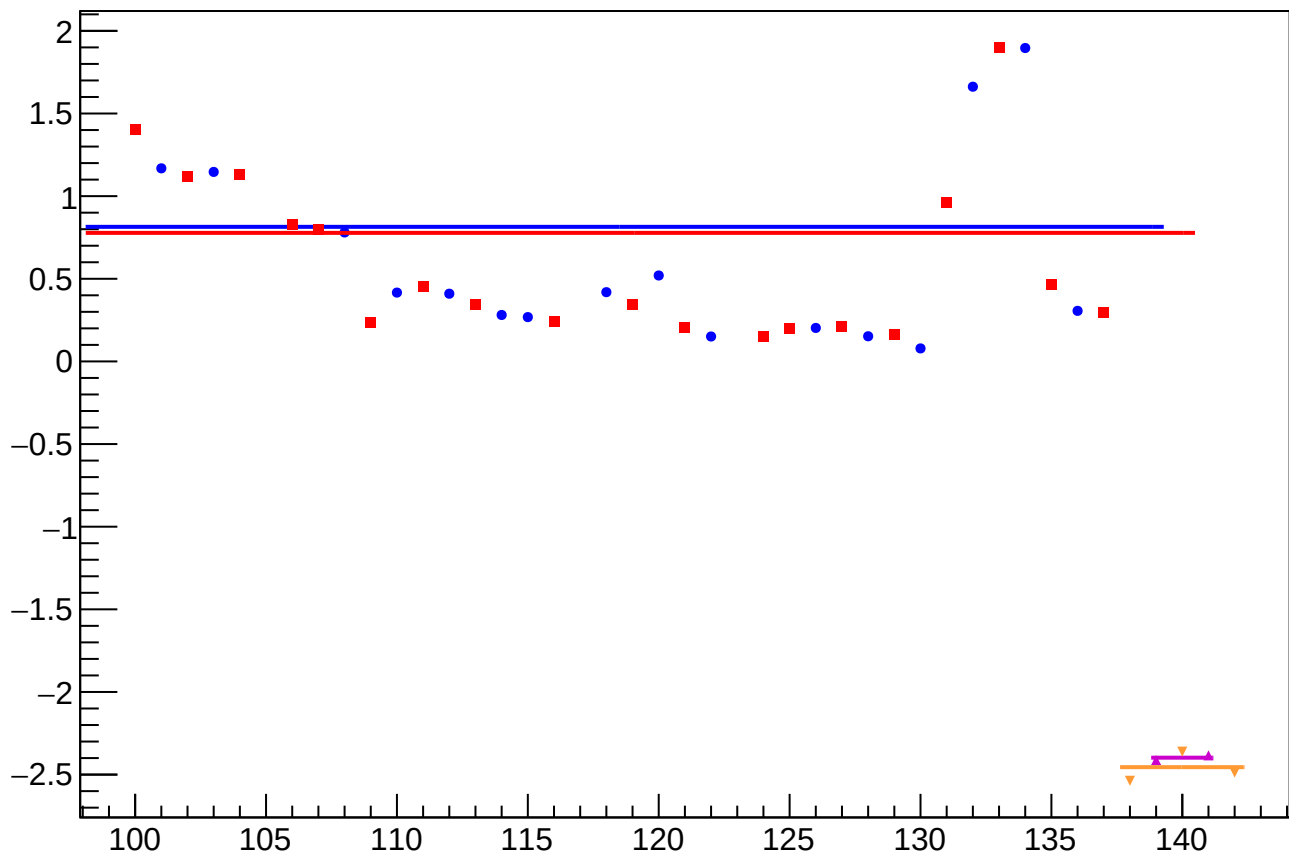
Right: 0.004+/-0.000 χ^2/NDF : 406509.3/34

In: 0.004+/-0.000 χ^2/NDF :924482.4/17

Out: 0.004+/-0.000 χ^2/NDF :1128513.1/21

All: 0.004+/-0.000 χ^2/NDF : 2053638.2/39

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.814+/-0.000

χ^2/NDF : 35412149008.2/15

Left: -2.429+/-0.000

χ^2/NDF : 251841923.0/4

Left Out: -2.455+/-0.000

χ^2/NDF : 200606562.0/2

Right: 0.795+/-0.000

χ^2/NDF : 70115223181.3/34

Right Out: 0.778+/-0.000

χ^2/NDF : 34603328062.2/18

In: 0.329+/-0.000

χ^2/NDF : 260197841123.2/17

Out: 0.248+/-0.000

χ^2/NDF : 301117302294.6/21

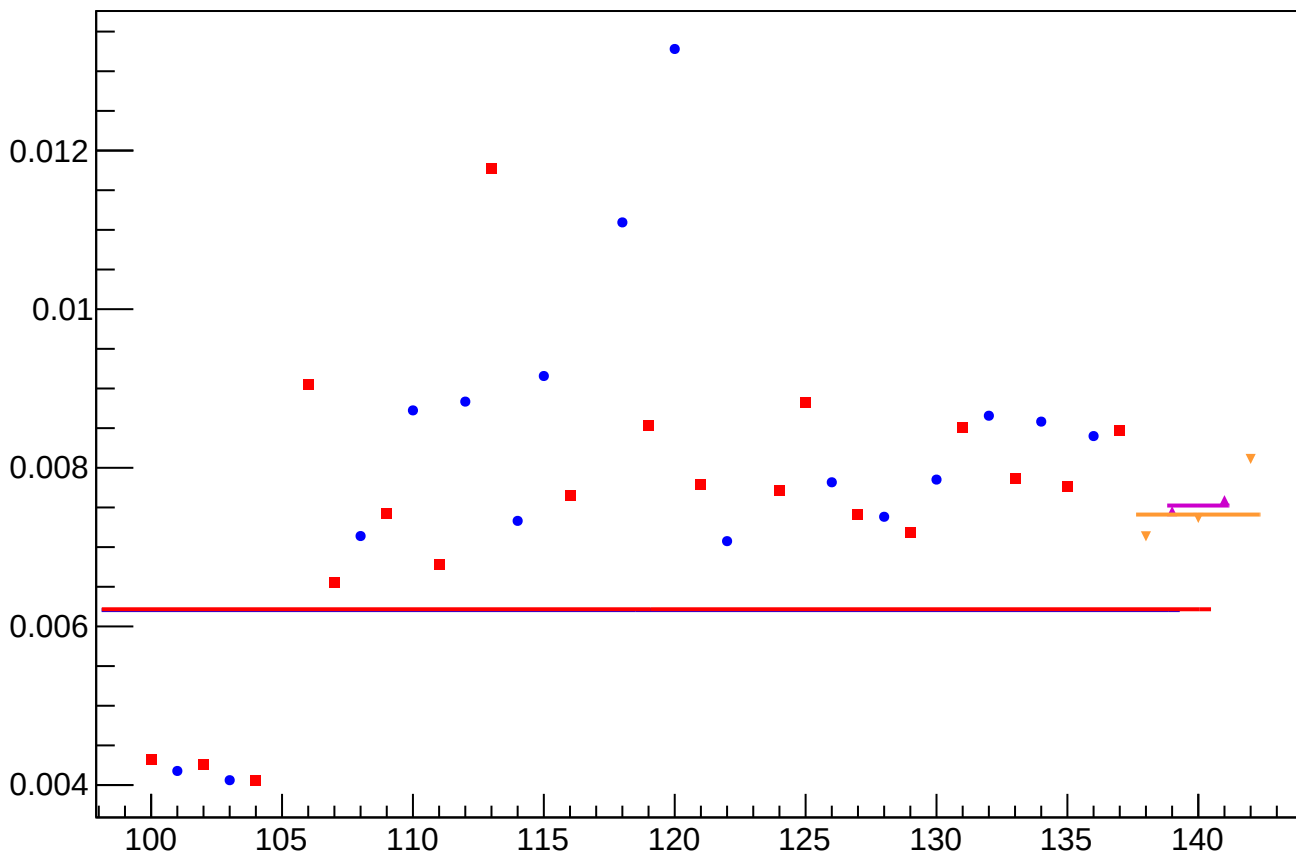
Left In: -2.398+/-0.000

χ^2/NDF : 5363814.3/1

All: 0.287+/-0.000

χ^2/NDF : 561904351346.4

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000

χ^2/NDF : 1423886.1/15

Left Out: 0.007+/-0.000

χ^2/NDF : 7360.0/2

Right Out: 0.006+/-0.000

χ^2/NDF : 1161117.9/18

Left In: 0.008+/-0.000

χ^2/NDF : 247.0/1

Left: 0.007+/-0.000

χ^2/NDF : 7967.5/4

Right: 0.006+/-0.000

χ^2/NDF : 2585020.0/34

In: 0.006+/-0.000

χ^2/NDF : 1499851.1/17

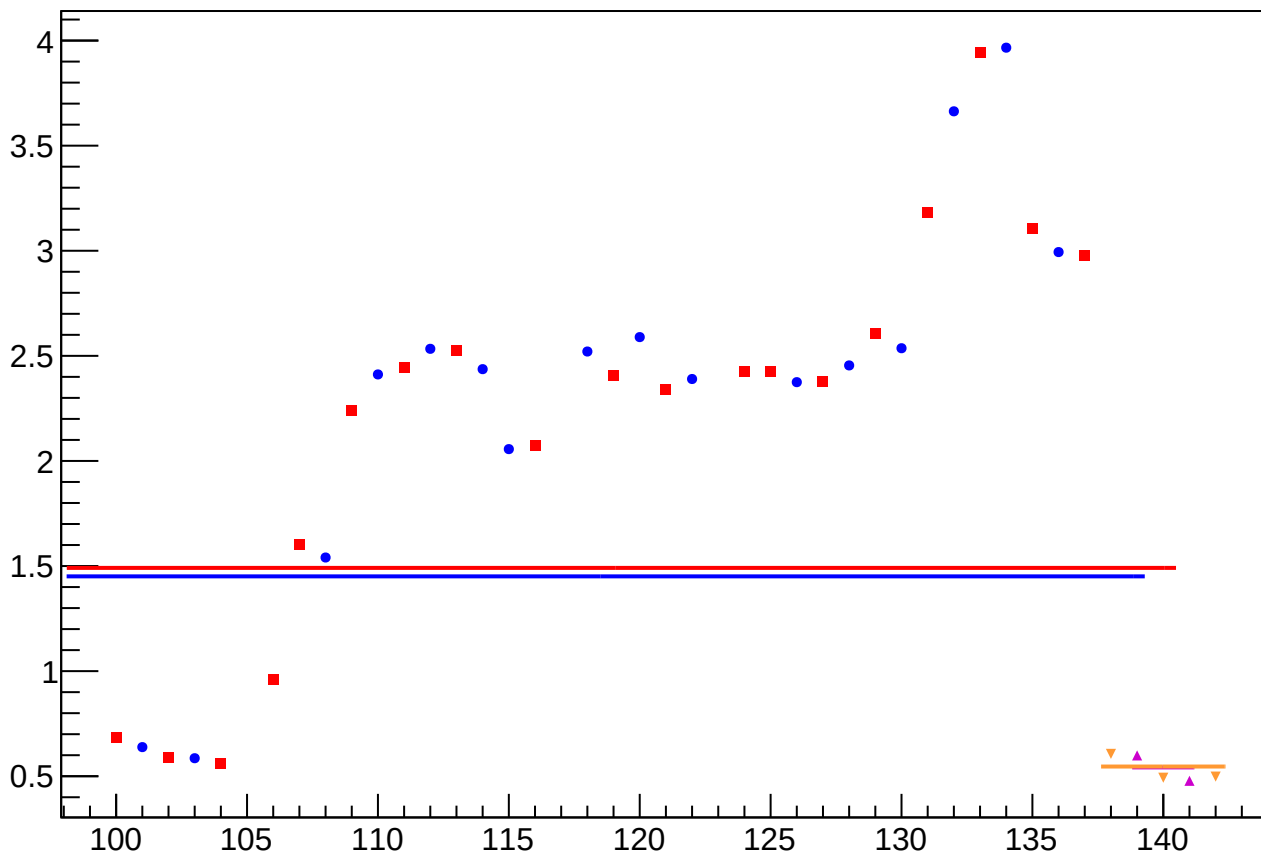
Out: 0.006+/-0.000

χ^2/NDF : 1241147.0/21

All: 0.006+/-0.000

χ^2/NDF : 2741006.9/39

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.451+/-0.000 χ^2/NDF : 169635774704.4/15

Left Out: 0.546+/-0.000 χ^2/NDF : 98705820.6/2

Right Out: 1.491+/-0.000 χ^2/NDF : 186952709821.0/18

Left In: 0.542+/-0.000 χ^2/NDF : 100612102.4/1

Left: 0.544+/-0.000 χ^2/NDF : 199572850.0/4

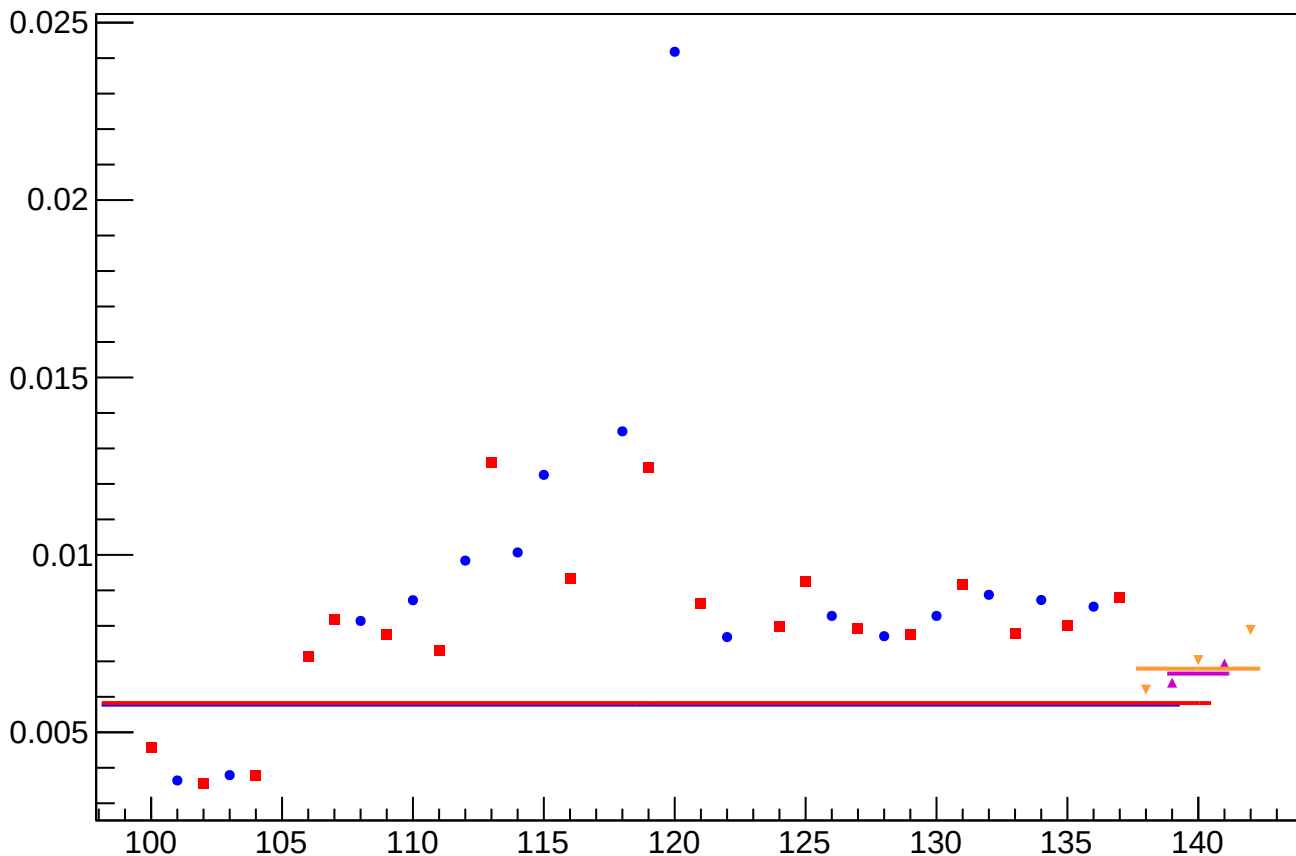
Right: 1.472+/-0.000 χ^2/NDF : 356714546192.4/34

In: 1.309+/-0.000 χ^2/NDF : 189034959914.8/17

Out: 1.336+/-0.000 χ^2/NDF : 210758948705.7/21

All: 1.323+/-0.000 χ^2/NDF : 399859058431.5

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2213885.3/15

Left Out: 0.007+/-0.000 χ^2/NDF :24249.0/2

Right Out: 0.006+/-0.000 χ^2/NDF : 1955751.4/18

Left In: 0.007+/-0.000 χ^2/NDF :3952.3/1

Left: 0.007+/-0.000 χ^2/NDF : 28772.0/4

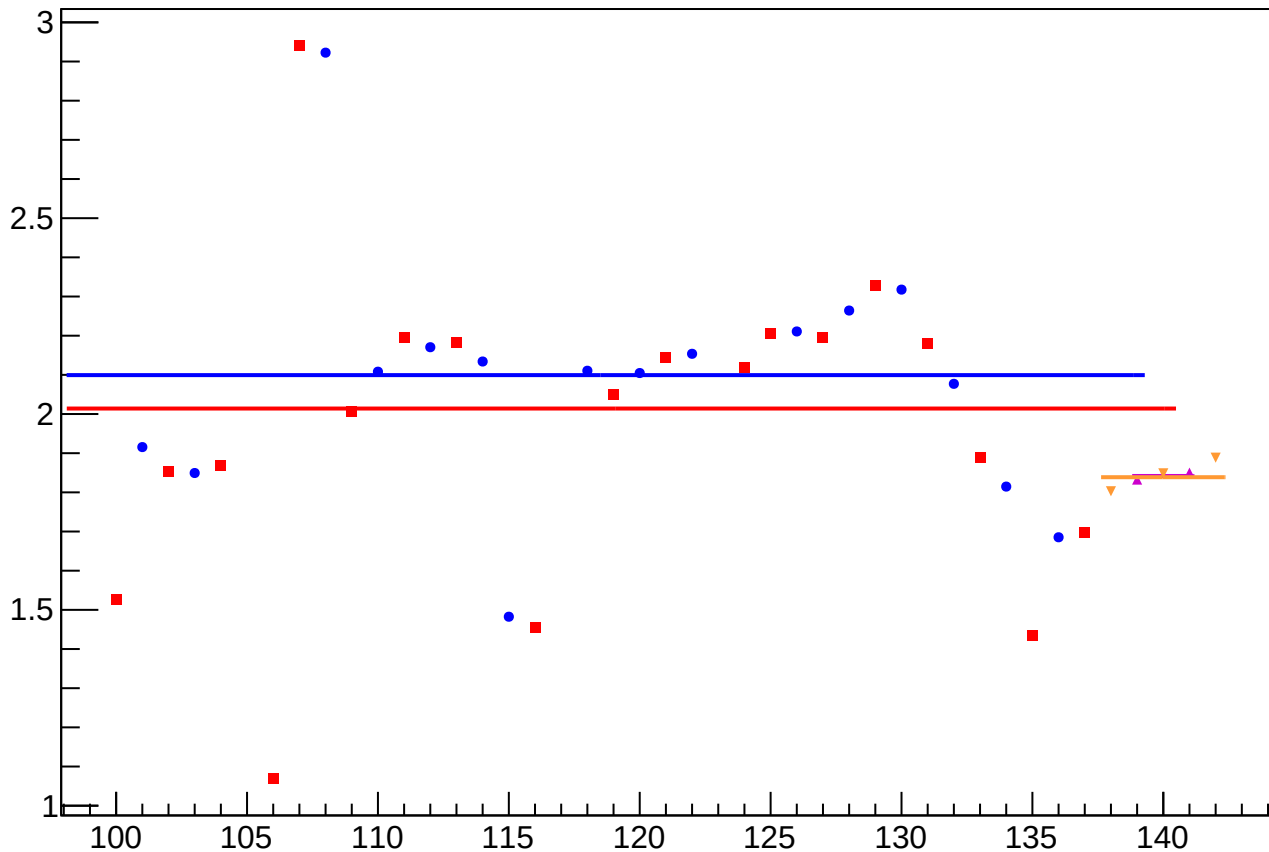
Right: 0.006+/-0.000 χ^2/NDF : 4169928.0/34

In: 0.006+/-0.000 χ^2/NDF :2253483.2/17

Out: 0.006+/-0.000 χ^2/NDF :2029855.8/21

All: 0.006+/-0.000 χ^2/NDF : 4284157.7/39

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.099+/-0.000 χ^2/NDF : 13928556396.8/15

Left Out: 1.839+/-0.000 χ^2/NDF : 23253119.3/2

Right Out: 2.014+/-0.000 χ^2/NDF : 19615856596.5/18

Left In: 1.842+/-0.000 χ^2/NDF : 1530330.4/1

Left: 1.840+/-0.000 χ^2/NDF : 24887235.4/4

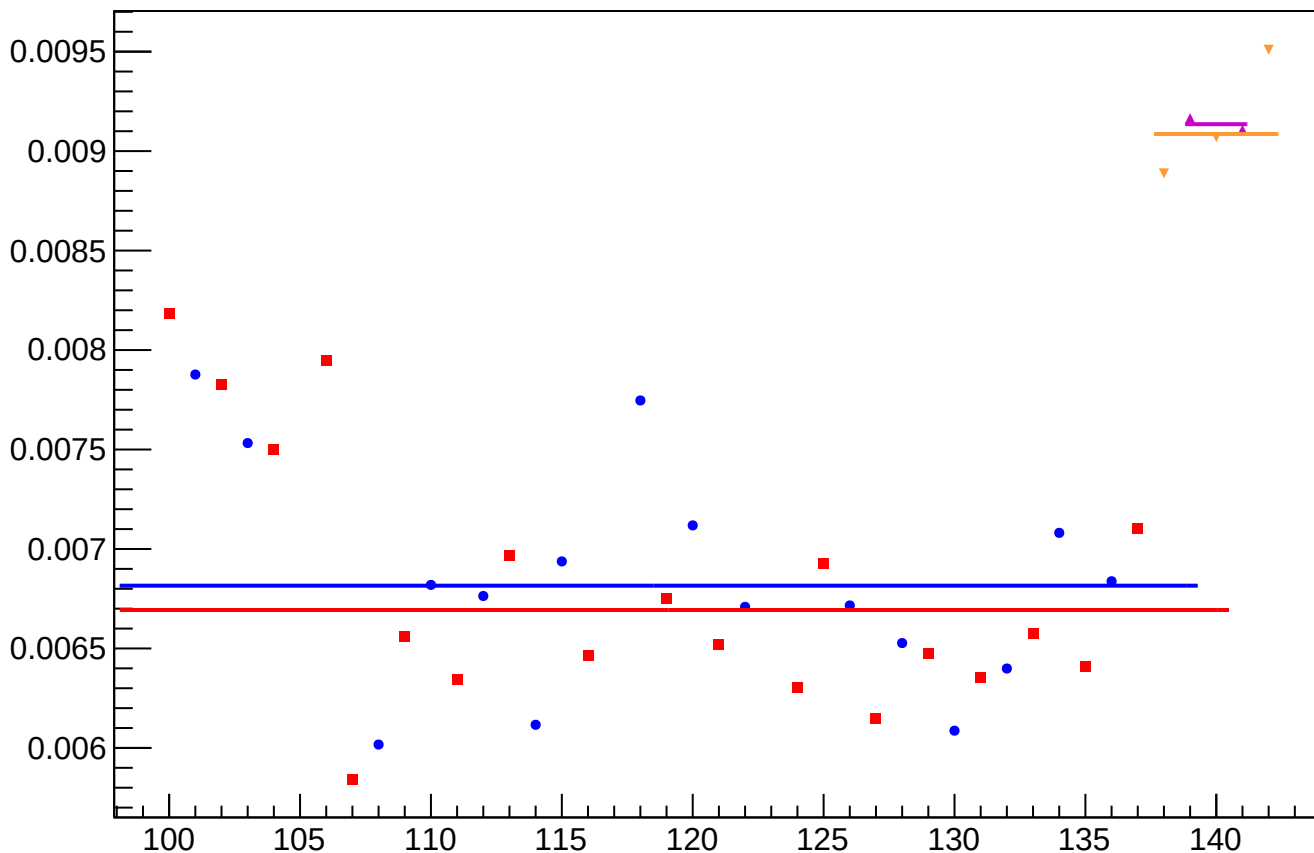
Right: 2.055+/-0.000 χ^2/NDF : 34101176841.4/34

In: 2.069+/-0.000 χ^2/NDF : 15069484925.0/17

Out: 1.992+/-0.000 χ^2/NDF : 20247970613.1/21

All: 2.029+/-0.000 χ^2/NDF : 35832992123.4/3

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 86781.0/15

Left Out: 0.009+/-0.000 χ^2/NDF :2281.2/2

Right Out: 0.007+/-0.000 χ^2/NDF : 87876.9/18

Left In: 0.009+/-0.000 χ^2/NDF :32.8/1

Left: 0.009+/-0.000 χ^2/NDF : 2365.2/4

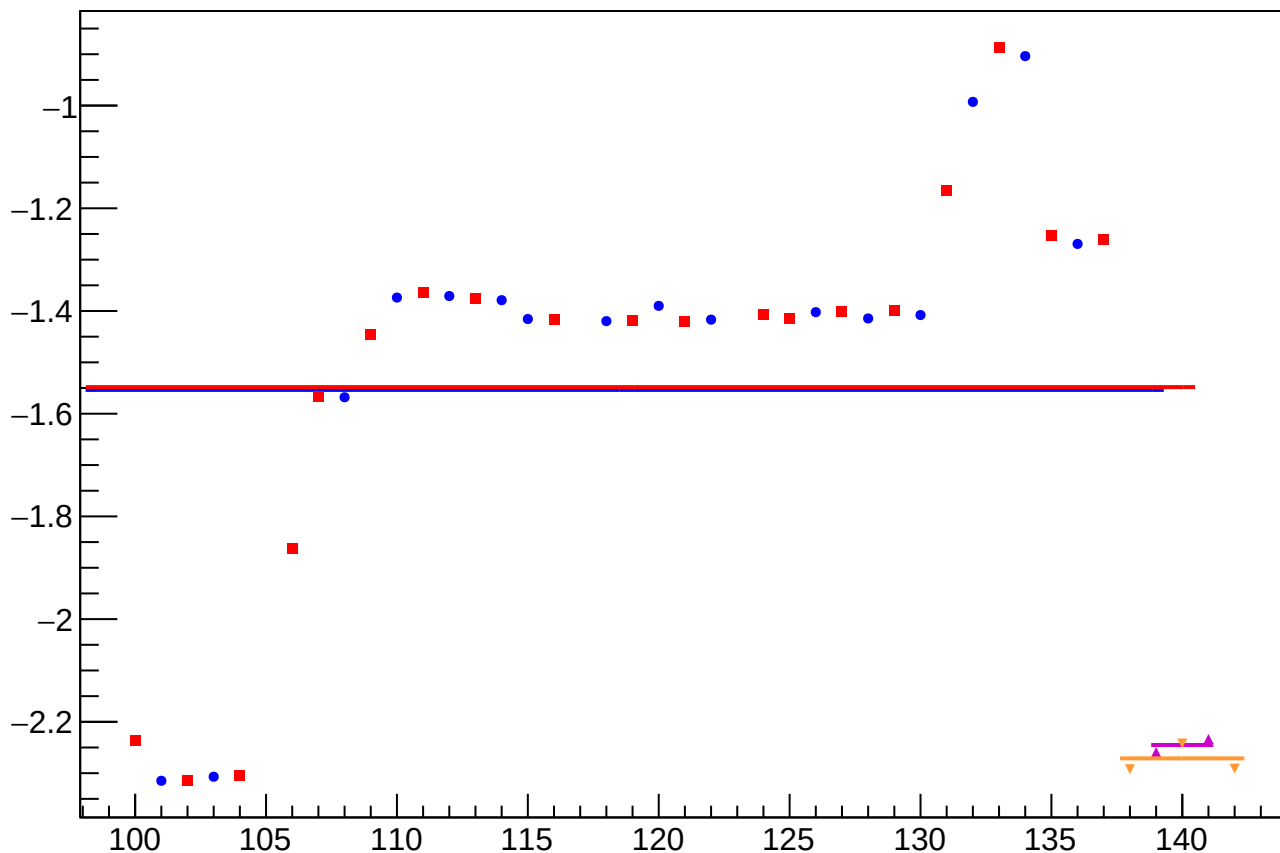
Right: 0.007+/-0.000 χ^2/NDF : 176946.8/34

In: 0.007+/-0.000 χ^2/NDF :271739.0/17

Out: 0.007+/-0.000 χ^2/NDF :316907.9/21

All: 0.007+/-0.000 χ^2/NDF : 590259.0/39

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.554+/-0.000

χ^2/NDF : 175176621986.0/15

Left: -2.259+/-0.000

χ^2/NDF : 186205076.7/4

Left Out: -2.271+/-0.000

χ^2/NDF : 105909660.6/2

Right: -1.551+/-0.000

χ^2/NDF : 349934542439.1/34

Right Out: -1.548+/-0.000

χ^2/NDF : 174743666302.8/18

In: -1.650+/-0.000

χ^2/NDF : 237909261644.5/17

Out: -1.657+/-0.000

χ^2/NDF : 253309989723.7/21

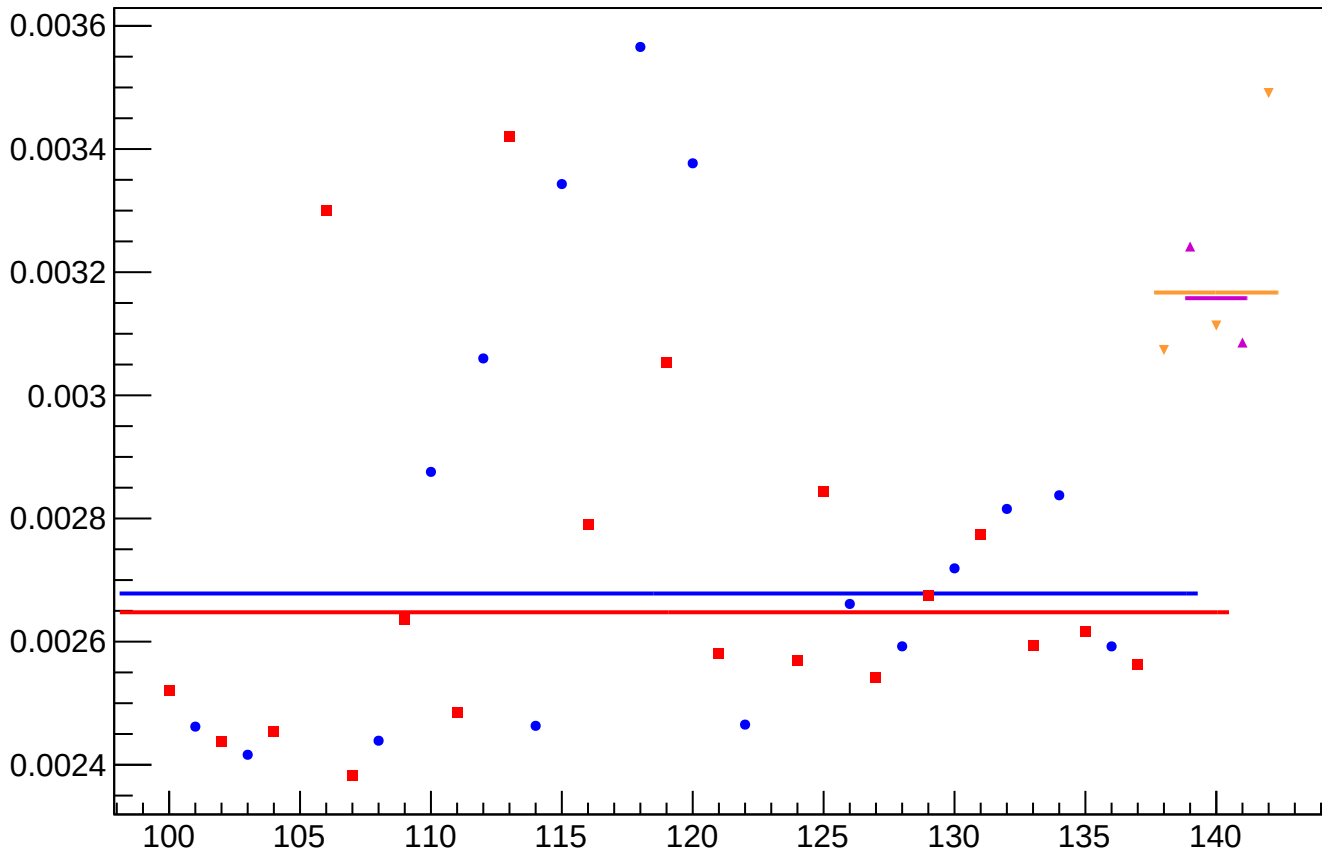
Left In: -2.245+/-0.000

χ^2/NDF : 24866259.0/1

All: -1.654+/-0.000

χ^2/NDF : 491240482126.0

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 157881.5/15

Left Out: 0.003+/-0.000 χ^2/NDF : 8452.3/2

Right Out: 0.003+/-0.000 χ^2/NDF : 116150.5/18

Left In: 0.003+/-0.000 χ^2/NDF : 1843.0/1

Left: 0.003+/-0.000 χ^2/NDF : 10309.0/4

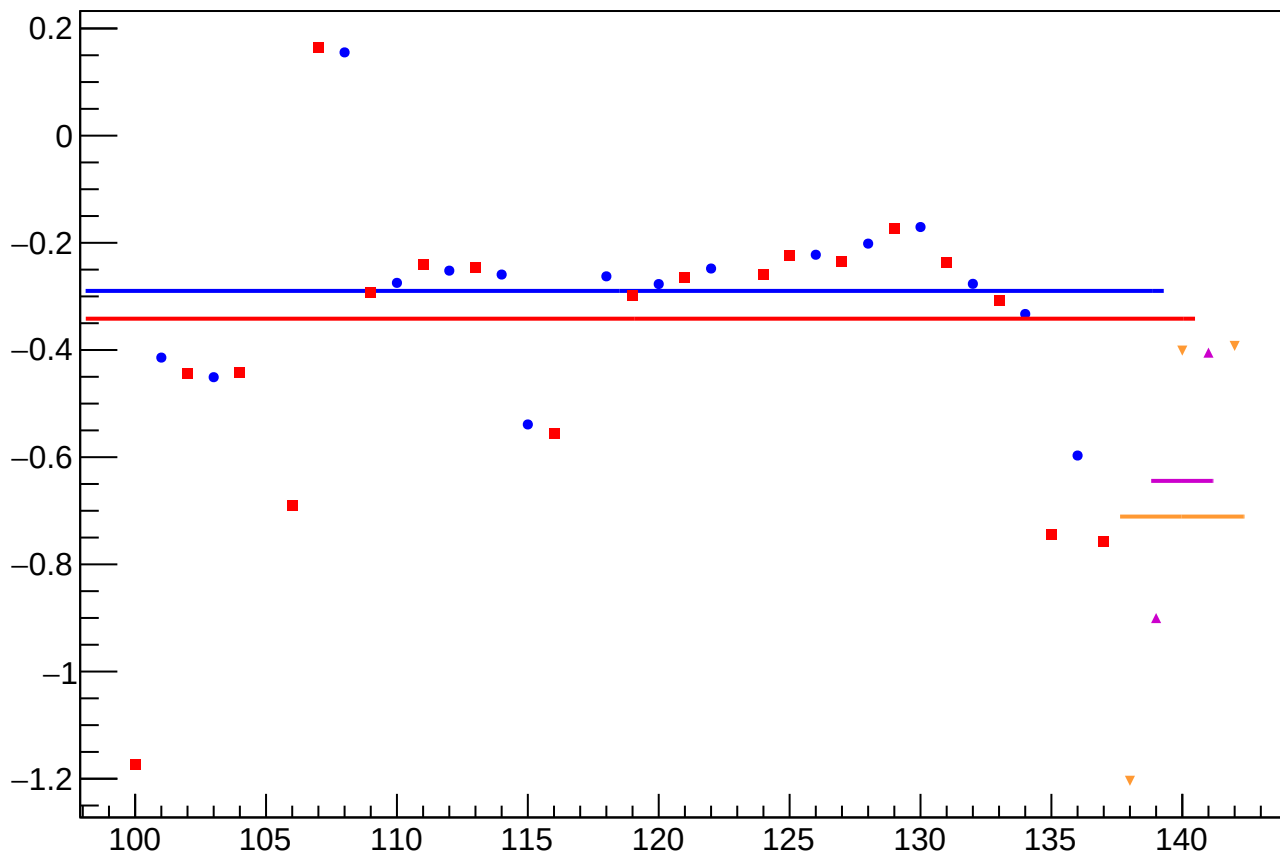
Right: 0.003+/-0.000 χ^2/NDF : 274930.8/34

In: 0.003+/-0.000 χ^2/NDF : 220052.6/17

Out: 0.003+/-0.000 χ^2/NDF : 205552.6/21

All: 0.003+/-0.000 χ^2/NDF : 426048.4/39

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.290+/-0.000 χ^2/NDF : 1645174238.4/15

Left Out: -0.711+/-0.000 χ^2/NDF : 1253487941.0/2

Right Out: -0.342+/-0.000 χ^2/NDF : 2609243421.7/18

Left In: -0.644+/-0.000 χ^2/NDF : 444730601.5/1

Left: -0.679+/-0.000 χ^2/NDF : 1715226268.4/4

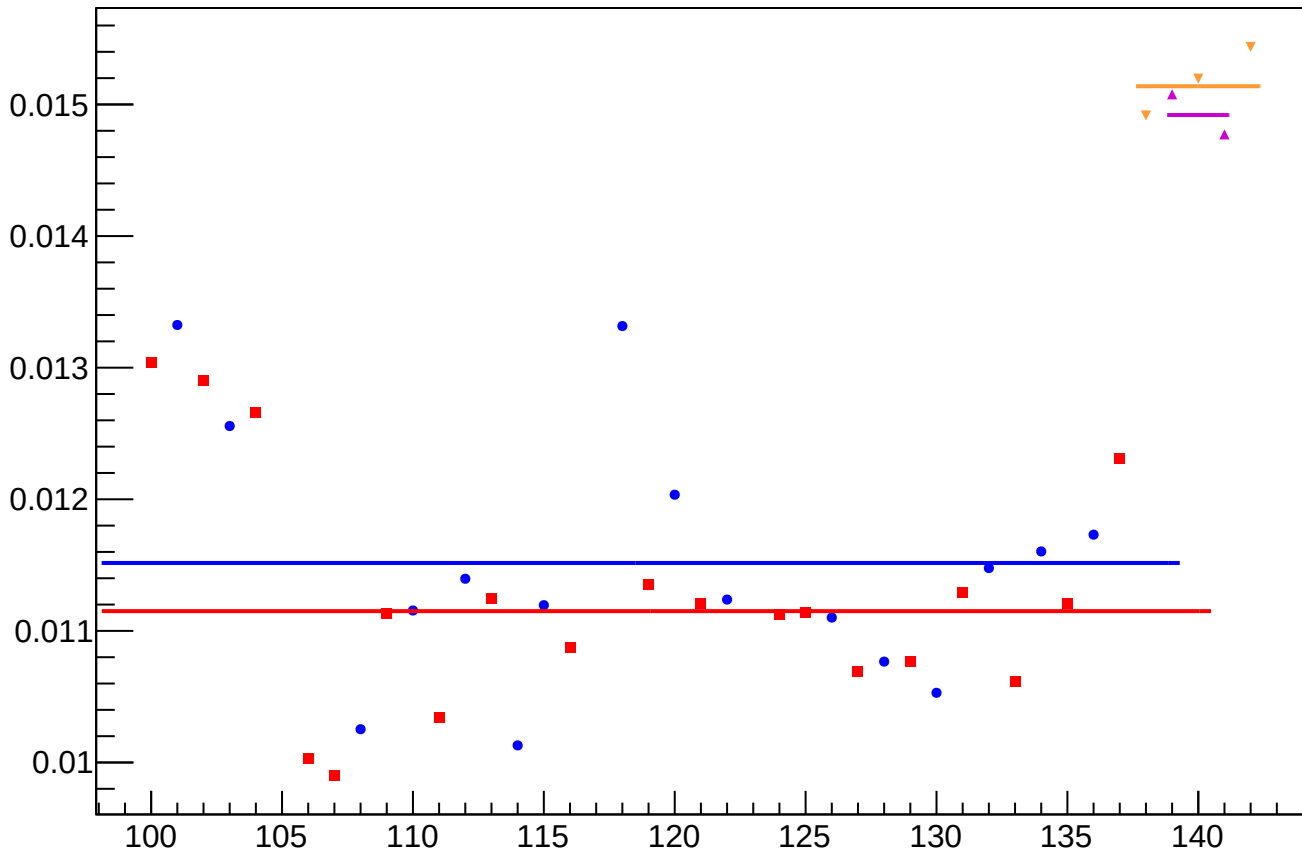
Right: -0.317+/-0.000 χ^2/NDF : 4328413510.6/34

In: -0.333+/-0.000 χ^2/NDF : 2890766998.0/17

Out: -0.387+/-0.000 χ^2/NDF : 4835639388.2/21

All: -0.361+/-0.000 χ^2/NDF : 7816721971.8/3

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 84278.9/15

Left Out: 0.015 $\pm$ 0.000 χ^2/NDF : 640.0/2

Right Out: 0.011 $\pm$ 0.000 χ^2/NDF : 70560.1/18

Left In: 0.015 $\pm$ 0.000 χ^2/NDF : 335.7/1

Left: 0.015 $\pm$ 0.000 χ^2/NDF : 1342.2/4

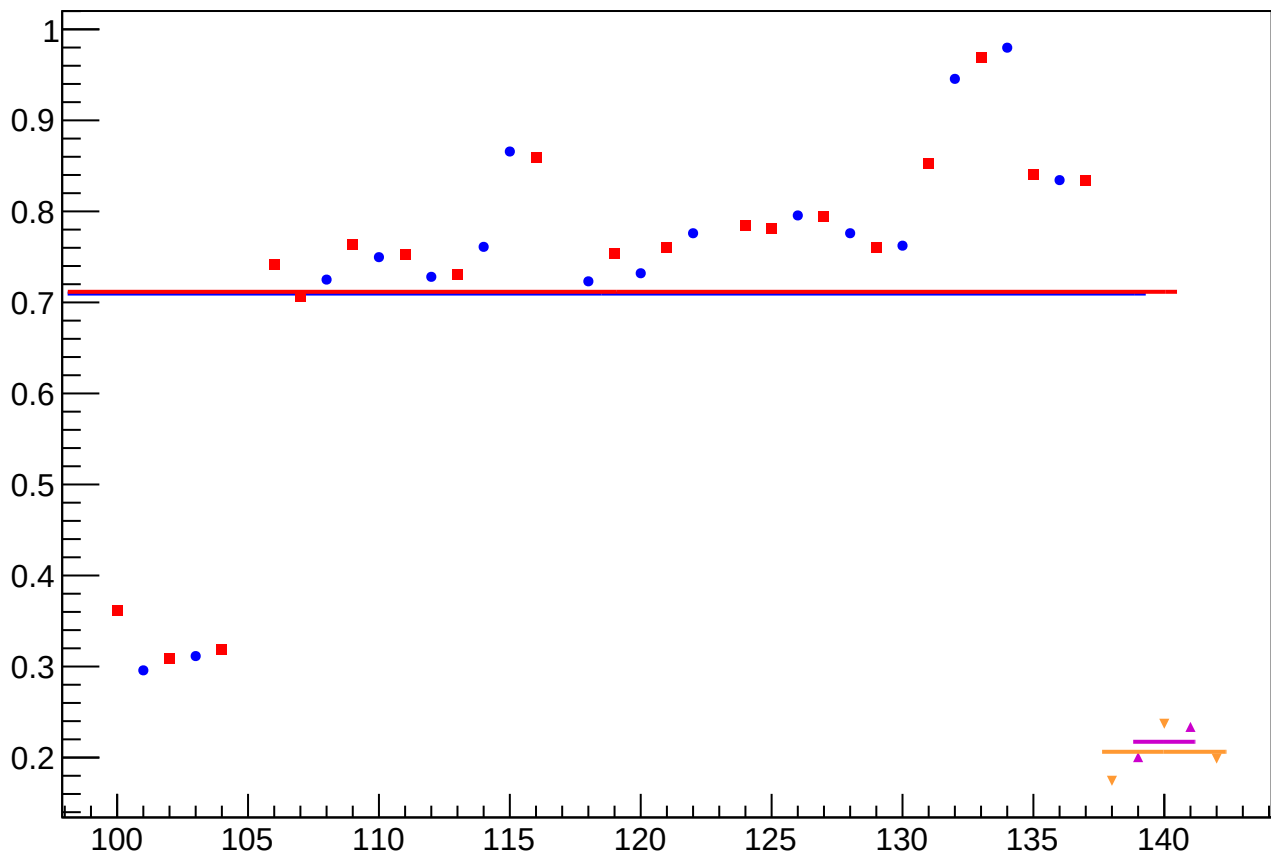
Right: 0.011 $\pm$ 0.000 χ^2/NDF : 162212.6/34

In: 0.012 $\pm$ 0.000 χ^2/NDF : 232271.5/17

Out: 0.012 $\pm$ 0.000 χ^2/NDF : 298204.5/21

All: 0.012 $\pm$ 0.000 χ^2/NDF : 535910.6/39

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.710+/-0.000 χ^2/NDF : 48924347494.6/15

Left Out: 0.206+/-0.000 χ^2/NDF : 385360770.8/2

Right Out: 0.712+/-0.000 χ^2/NDF : 44174681920.8/18

Left In: 0.217+/-0.000 χ^2/NDF : 114332880.9/1

Left: 0.211+/-0.000 χ^2/NDF : 526888081.5/4

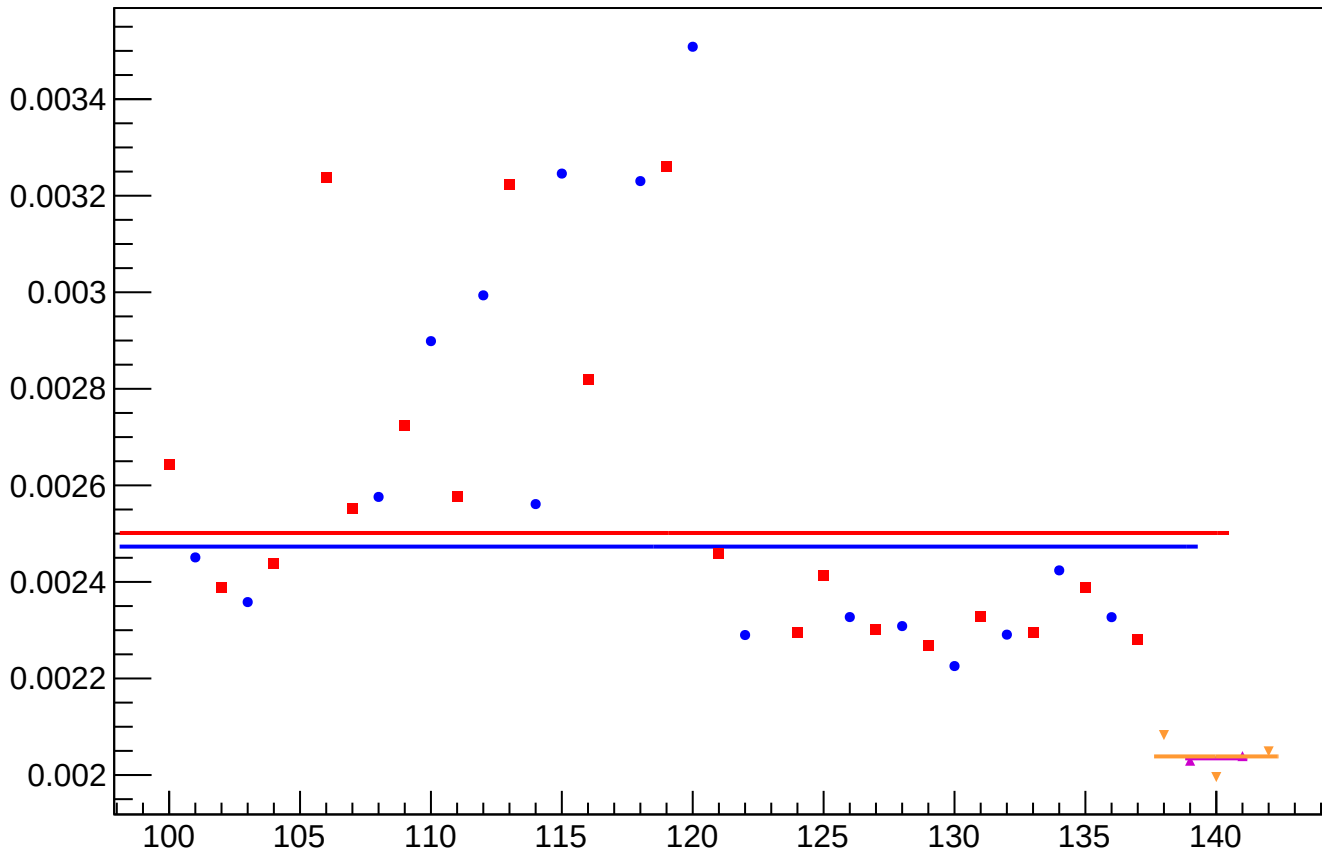
Right: 0.711+/-0.000 χ^2/NDF : 93101138571.1/34

In: 0.576+/-0.000 χ^2/NDF : 122368363830.8/17

Out: 0.558+/-0.000 χ^2/NDF : 131961794871.0/21

All: 0.567+/-0.000 χ^2/NDF : 254593594324.5

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 208046.5/15

Left Out: 0.002+/-0.000 χ^2/NDF :1485.1/2

Right Out: 0.003+/-0.000 χ^2/NDF : 177427.2/18

Left In: 0.002+/-0.000 χ^2/NDF :18.8/1

Left: 0.002+/-0.000 χ^2/NDF : 1511.0/4

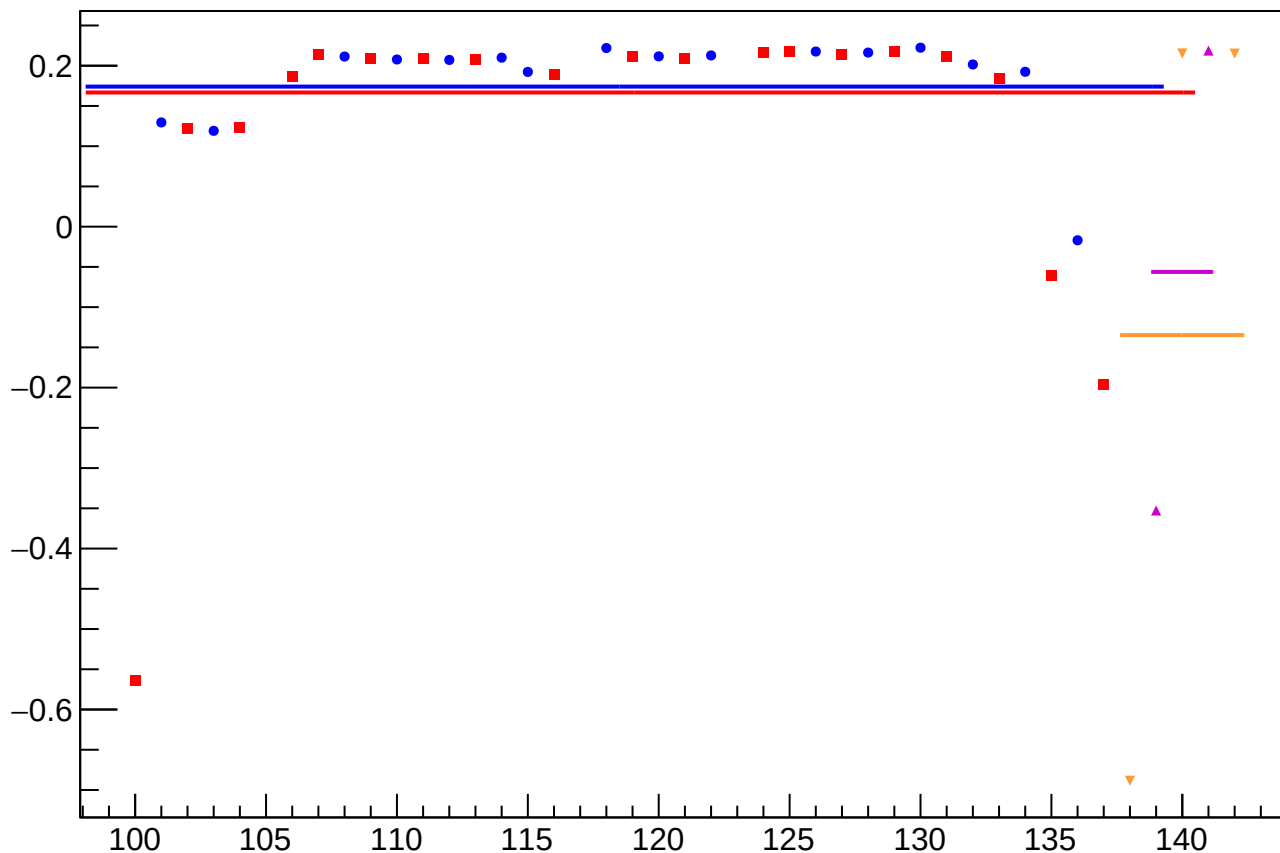
Right: 0.002+/-0.000 χ^2/NDF : 386364.7/34

In: 0.002+/-0.000 χ^2/NDF :324438.8/17

Out: 0.002+/-0.000 χ^2/NDF :325559.5/21

All: 0.002+/-0.000 χ^2/NDF : 650060.8/39

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.174+/-0.000

χ^2/NDF : 401946344.0/15

Left: -0.098+/-0.000

χ^2/NDF : 2711891497.0/4

Left Out: -0.135+/-0.000

χ^2/NDF : 1947938692.2/2

Right: 0.170+/-0.000

χ^2/NDF : 1298066263.7/34

Right Out: 0.167+/-0.000

χ^2/NDF : 894131198.6/18

In: 0.148+/-0.000

χ^2/NDF : 1559902799.3/17

Out: 0.133+/-0.000

χ^2/NDF : 3652415775.7/21

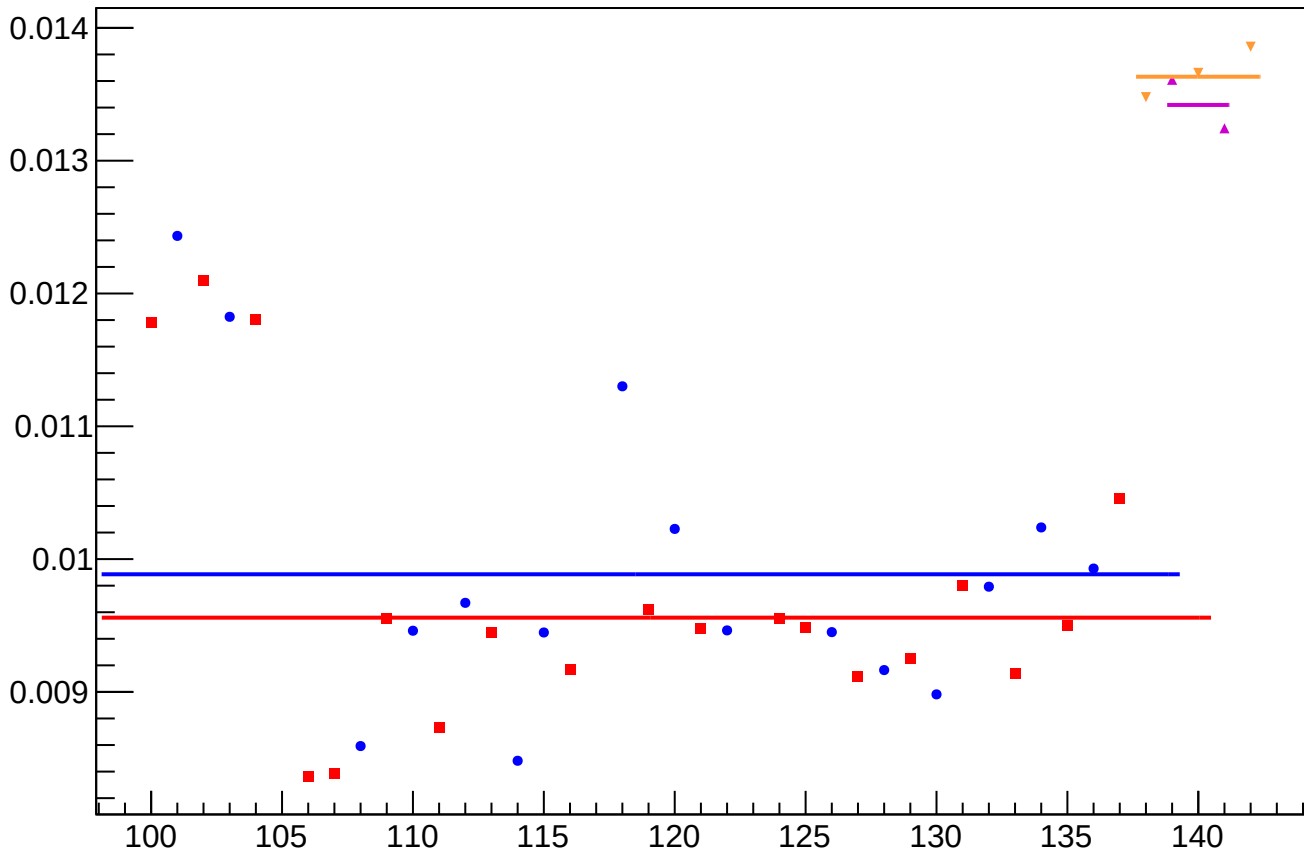
Left In: -0.056+/-0.000

χ^2/NDF : 734641933.7/1

All: 0.140+/-0.000

χ^2/NDF : 5222034850.6/39

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 148562.0/15

Left Out: 0.014+/-0.000 χ^2/NDF : 409.4/2

Right Out: 0.010+/-0.000 χ^2/NDF : 136197.0/18

Left In: 0.013+/-0.000 χ^2/NDF : 600.8/1

Left: 0.014+/-0.000 χ^2/NDF : 1439.9/4

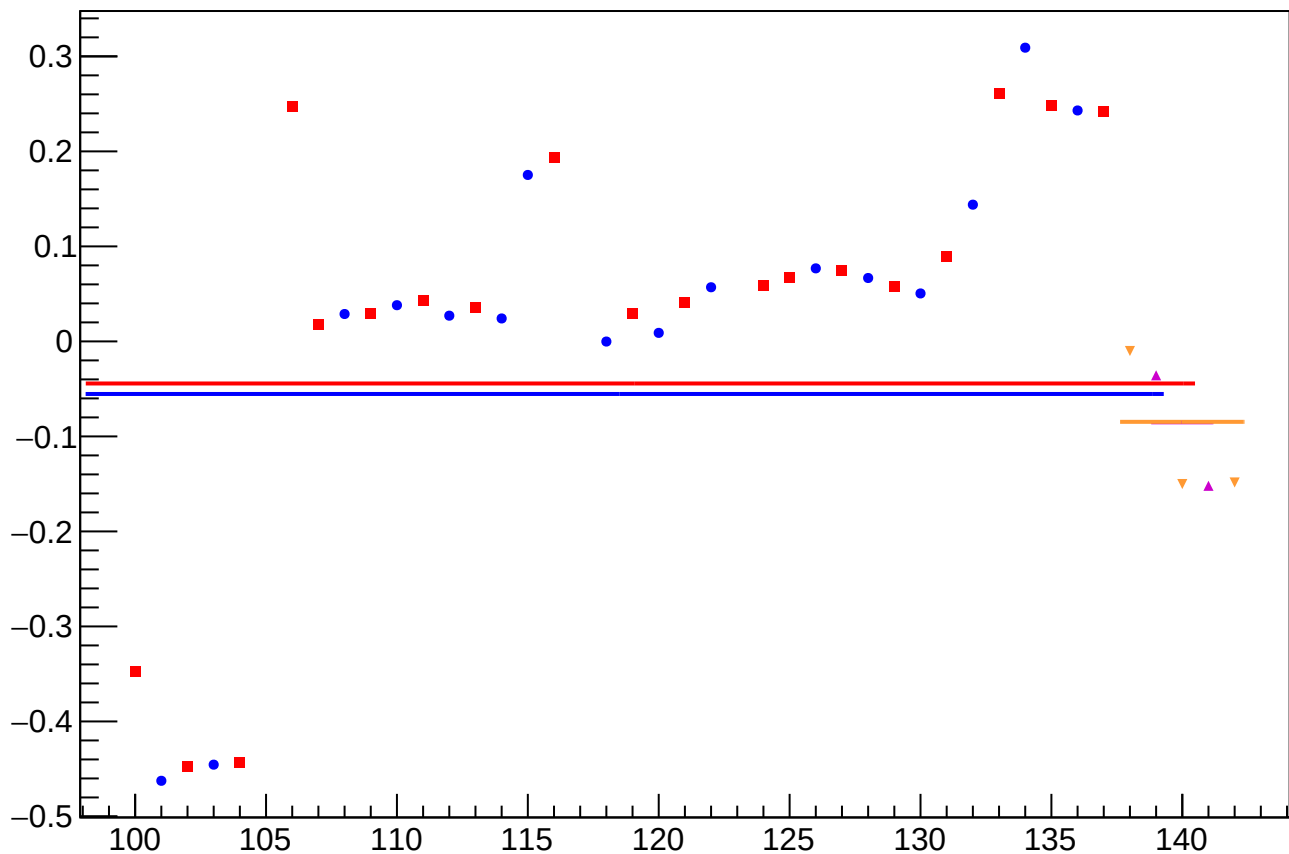
Right: 0.010+/-0.000 χ^2/NDF : 292678.0/34

In: 0.010+/-0.000 χ^2/NDF : 348582.2/17

Out: 0.010+/-0.000 χ^2/NDF : 432422.1/21

All: 0.010+/-0.000 χ^2/NDF : 787010.5/39

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.055+/-0.000 χ^2/NDF : 24081939190.6/15

Left Out: -0.085+/-0.000 χ^2/NDF : 987120705.4/2

Right Out: -0.044+/-0.000 χ^2/NDF : 22136167141.7/18

Left In: -0.085+/-0.000 χ^2/NDF : 558645986.5/1

Left: -0.085+/-0.000 χ^2/NDF : 1545790767.5/4

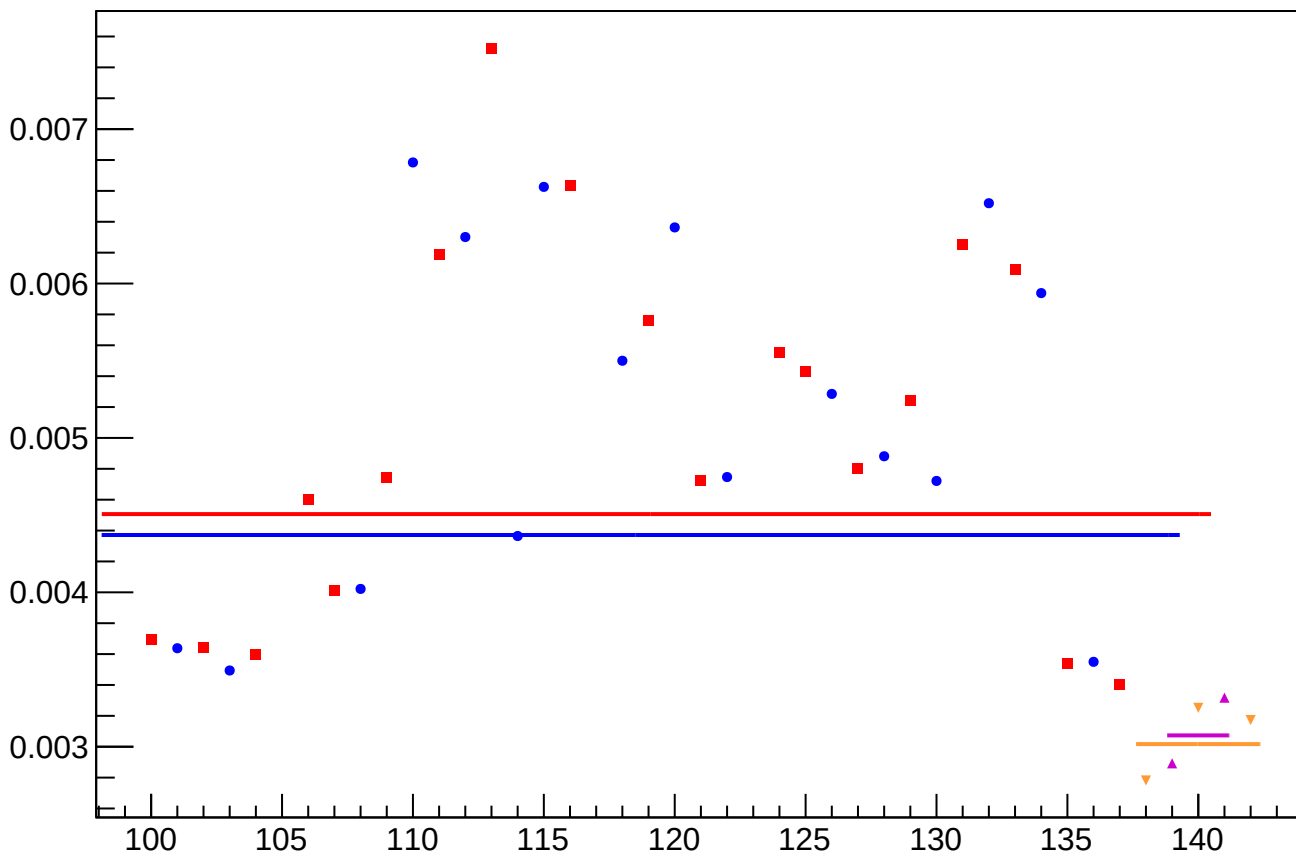
Right: -0.050+/-0.000 χ^2/NDF : 46237436160.9/34

In: -0.066+/-0.000 χ^2/NDF : 24738938153.1/17

Out: -0.060+/-0.000 χ^2/NDF : 23325056779.2/21

All: -0.063+/-0.000 χ^2/NDF : 48071562398.2/21

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 660432.6/15

Left Out: 0.003+/-0.000 χ^2/NDF :20000.3/2

Right Out: 0.005+/-0.000 χ^2/NDF : 704549.6/18

Left In: 0.003+/-0.000 χ^2/NDF :14943.2/1

Left: 0.003+/-0.000 χ^2/NDF : 35530.6/4

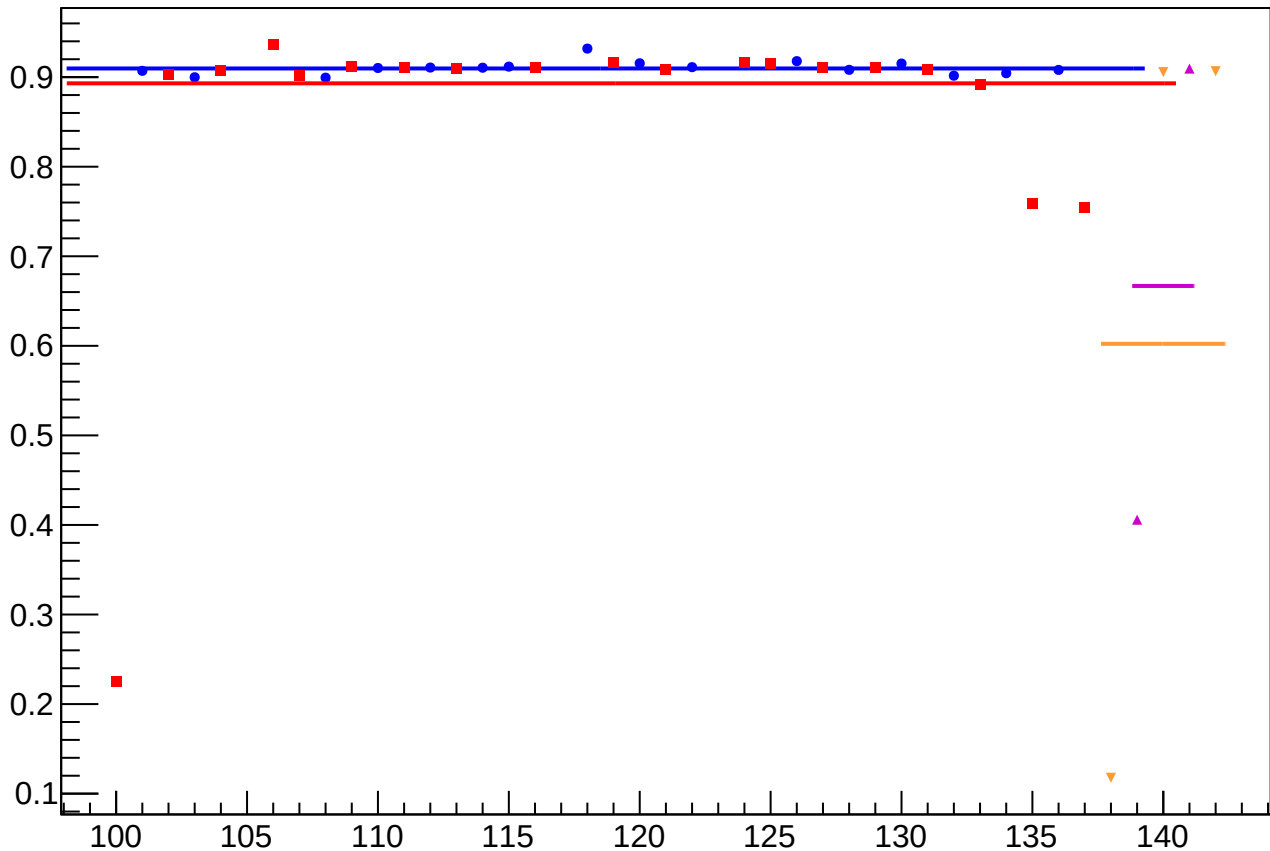
Right: 0.004+/-0.000 χ^2/NDF : 1370782.0/34

In: 0.004+/-0.000 χ^2/NDF :1047734.2/17

Out: 0.004+/-0.000 χ^2/NDF :1274046.2/21

All: 0.004+/-0.000 χ^2/NDF : 2321781.8/39

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.910 $\pm$ 0.000

χ^2 /NDF: 3133349.6/15

Left Out: 0.602 $\pm$ 0.000

χ^2 /NDF: 1616094575.4/2

Right Out: 0.893 $\pm$ 0.000

χ^2 /NDF: 327979021.4/18

Left In: 0.667 $\pm$ 0.000

χ^2 /NDF: 618765029.6/1

Left: 0.633 $\pm$ 0.000

χ^2 /NDF: 2256449911.3/4

Right: 0.901 $\pm$ 0.000

χ^2 /NDF: 339373965.5/34

In: 0.874 $\pm$ 0.000

χ^2 /NDF: 1112938494.2/17

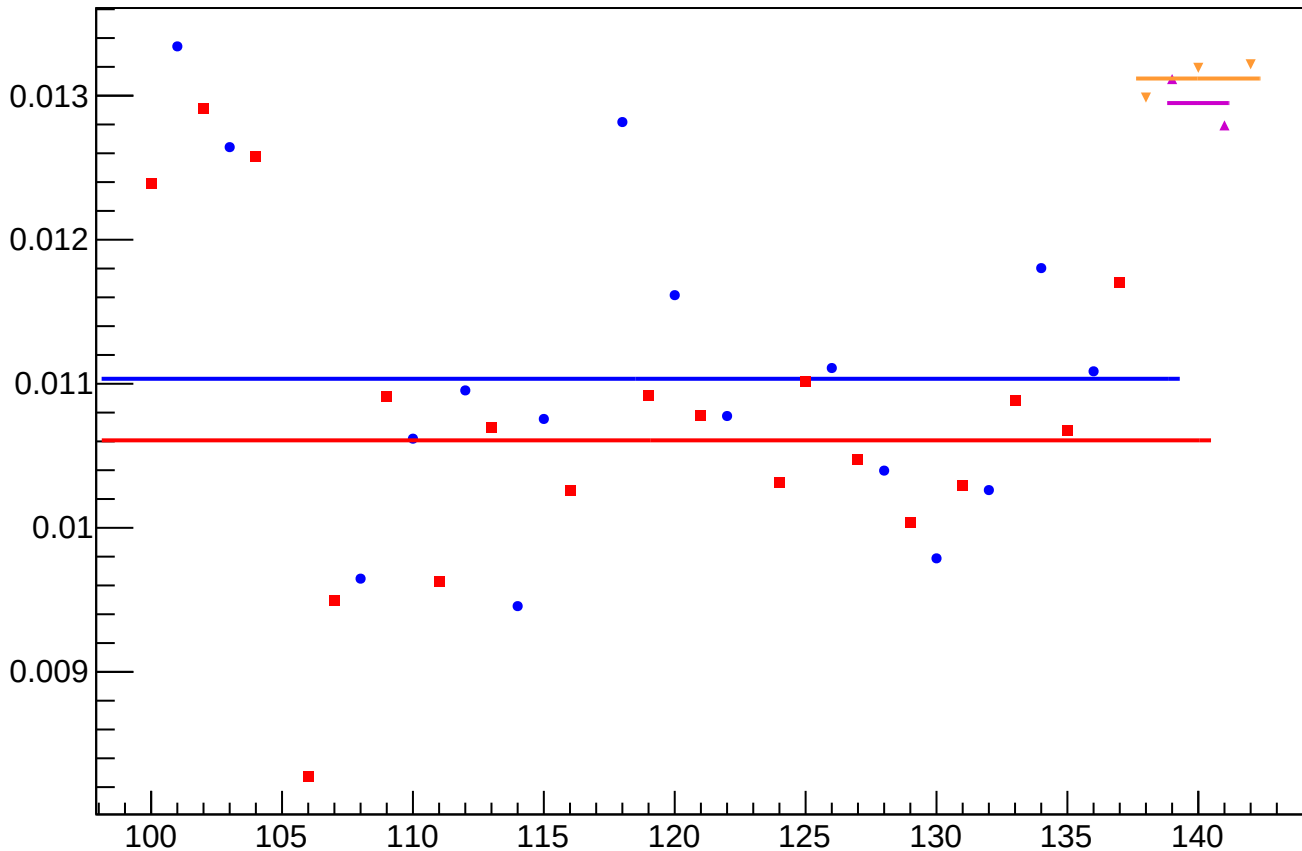
Out: 0.851 $\pm$ 0.000

χ^2 /NDF: 2737112478.2/21

All: 0.861 $\pm$ 0.000

χ^2 /NDF: 3869175824.0/39

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 130353.1/15

Left Out: 0.013+/-0.000 χ^2/NDF :242.7/2

Right Out: 0.011+/-0.000 χ^2/NDF : 143947.4/18

Left In: 0.013+/-0.000 χ^2/NDF :504.2/1

Left: 0.013+/-0.000 χ^2/NDF : 1047.0/4

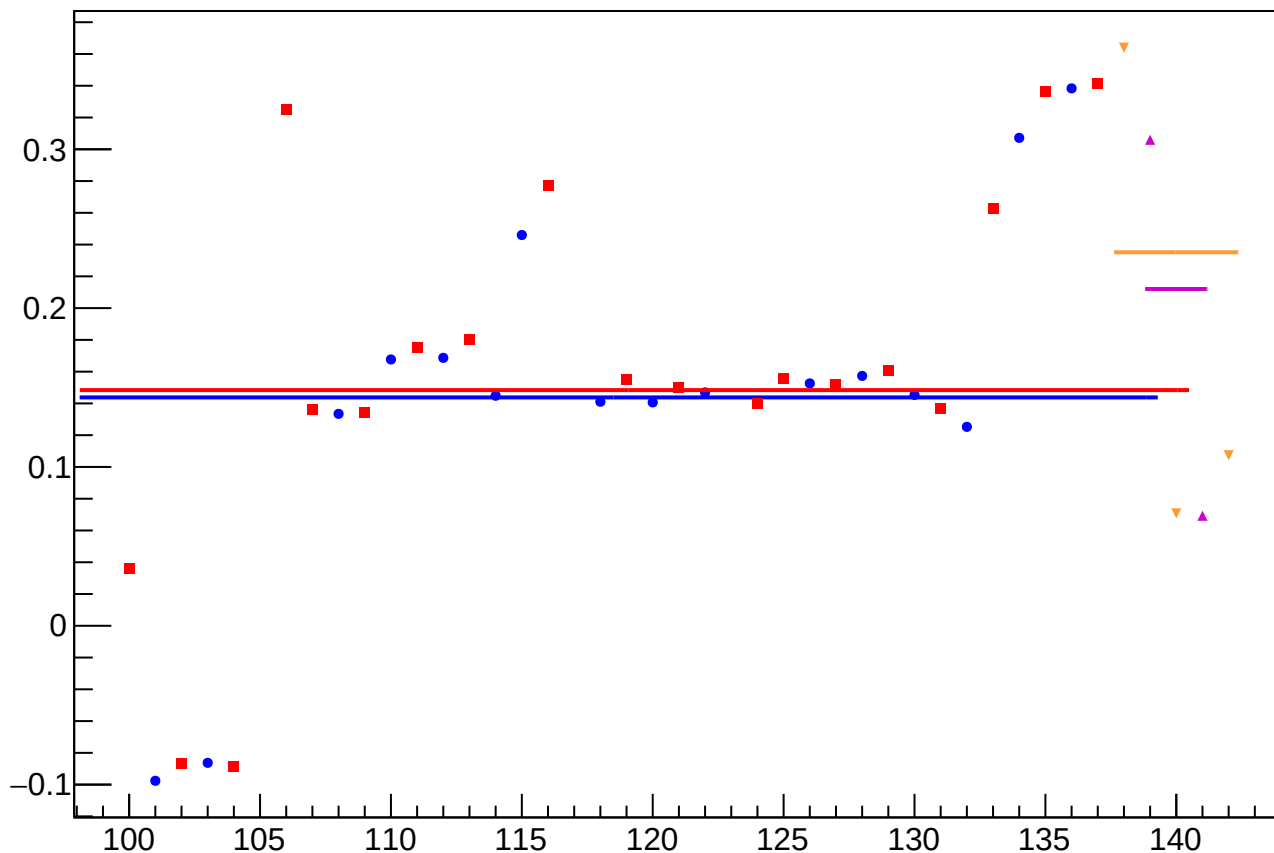
Right: 0.011+/-0.000 χ^2/NDF : 285253.7/34

In: 0.011+/-0.000 χ^2/NDF :191873.0/17

Out: 0.011+/-0.000 χ^2/NDF :262476.2/21

All: 0.011+/-0.000 χ^2/NDF : 462586.0/39

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.144+/-0.000 χ^2/NDF : 7867304536.4/15

Left Out: 0.235+/-0.000 χ^2/NDF : 2748927209.1/2

Right Out: 0.148+/-0.000 χ^2/NDF : 7128567107.5/18

Left In: 0.212+/-0.000 χ^2/NDF : 1484708606.4/1

Left: 0.225+/-0.000 χ^2/NDF : 4266652266.6/4

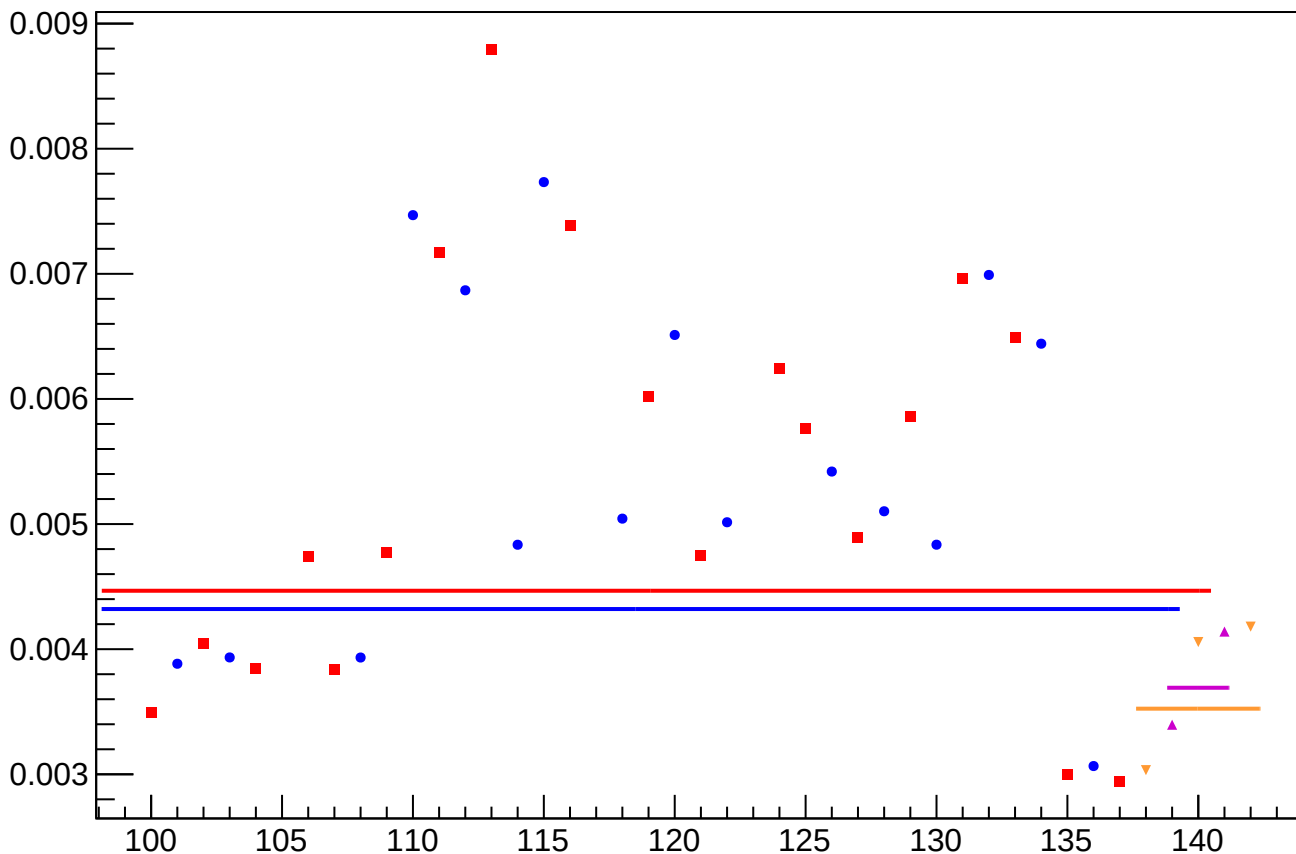
Right: 0.146+/-0.000 χ^2/NDF : 14999065697.1/34

In: 0.162+/-0.000 χ^2/NDF : 9731109384.9/17

Out: 0.176+/-0.000 χ^2/NDF : 10594737411.9/21

All: 0.169+/-0.000 χ^2/NDF : 20369400840.9/3

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 878343.4/15

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:79869.6/2

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 1085759.3/18

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:29365.8/1

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 112692.8/4

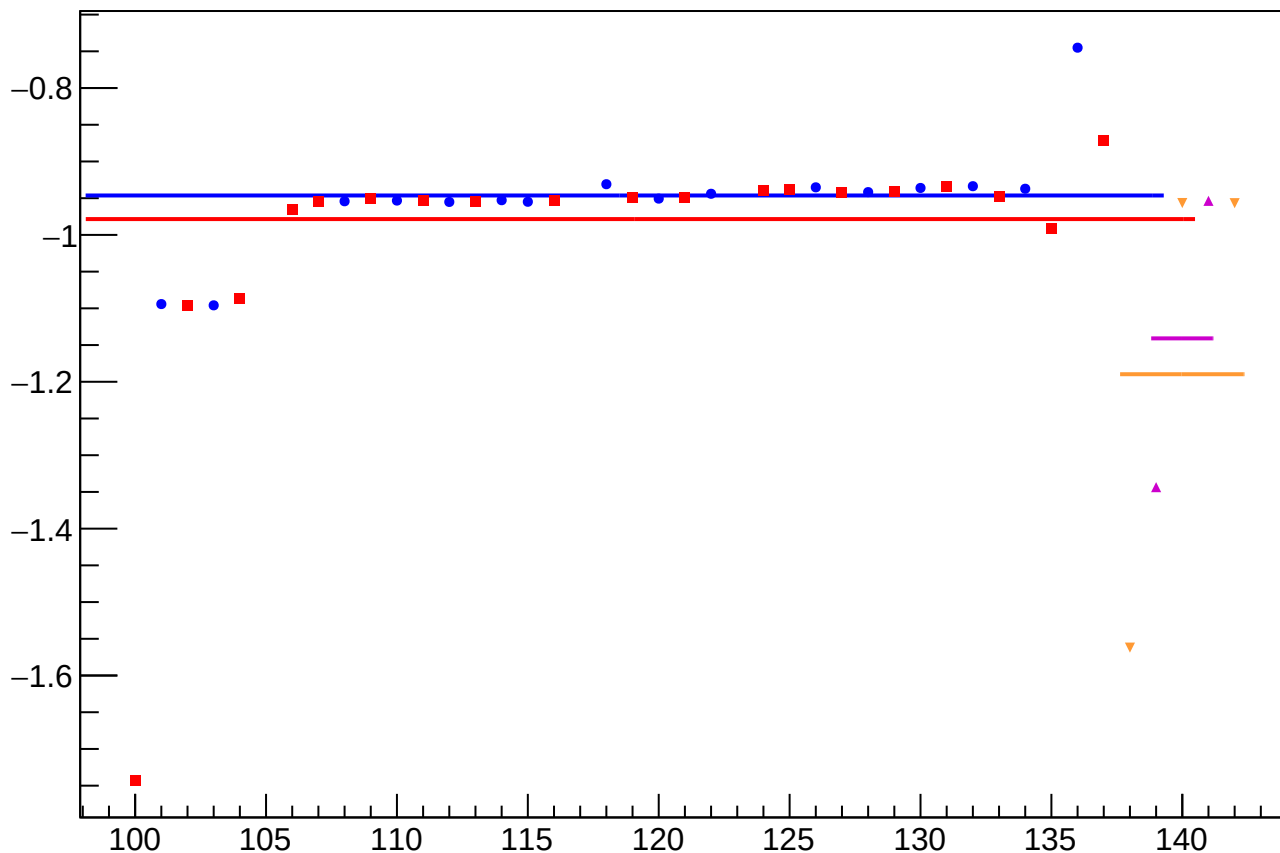
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1970552.0/34

In: 0.004 $\pm$ 0.000 χ^2 /NDF:972093.2/17

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1334827.3/21

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 2306974.3/39

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -0.946+/-0.000 χ^2/NDF : 404509465.5/15

Left Out: -1.190+/-0.000 χ^2/NDF :1229699828.5/2

Right Out: -0.978+/-0.000 χ^2/NDF : 461081476.3/18

Left In: -1.141+/-0.000 χ^2/NDF :474111389.9/1

Left: -1.167+/-0.000 χ^2/NDF : 1719629284.9/4

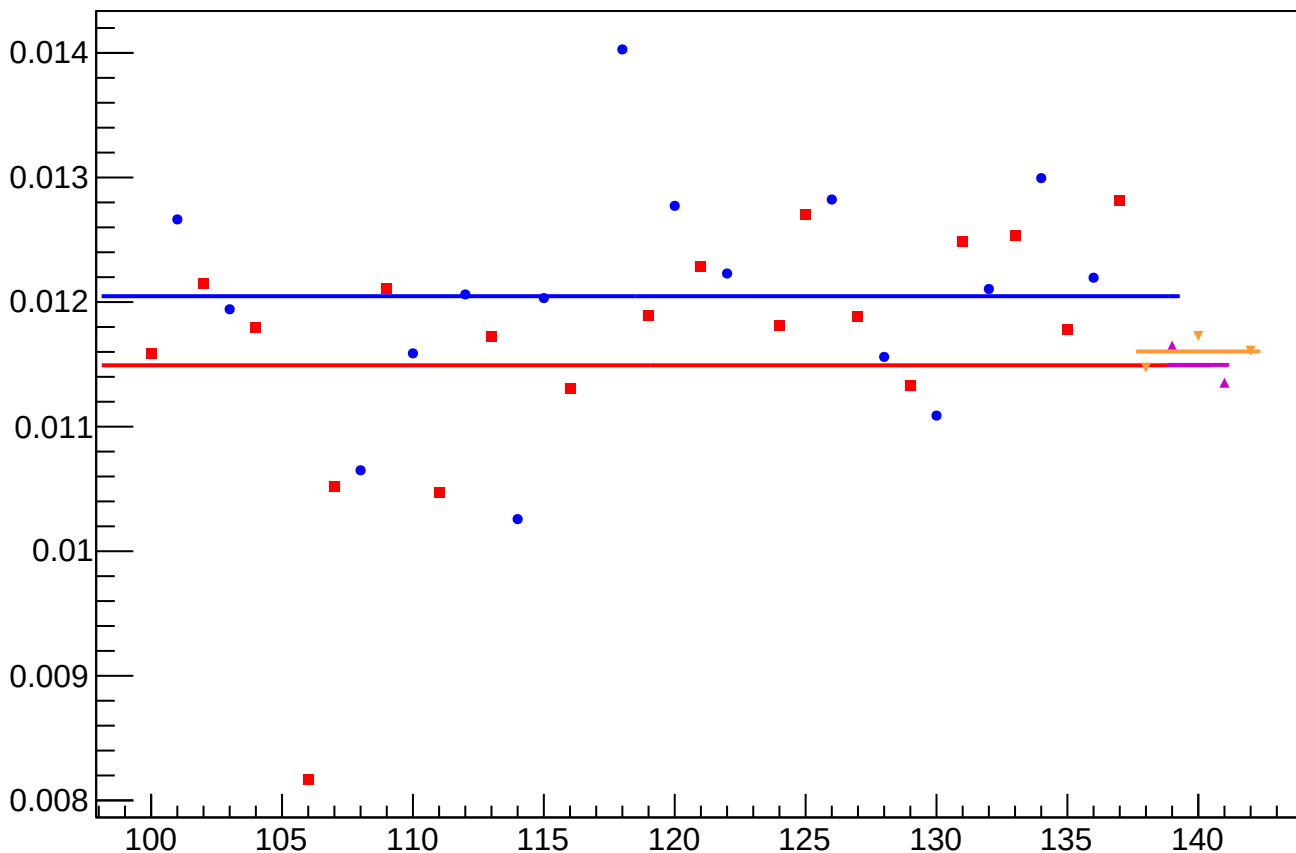
Right: -0.963+/-0.000 χ^2/NDF : 891693396.9/34

In: -0.987+/-0.000 χ^2/NDF :1252947293.9/17

Out: -1.022+/-0.000 χ^2/NDF :2192241530.7/21

All: -1.006+/-0.000 χ^2/NDF : 3484928403.8/3

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 62476.3/15

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:358.9/2

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 151309.4/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:549.9/1

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1064.2/4

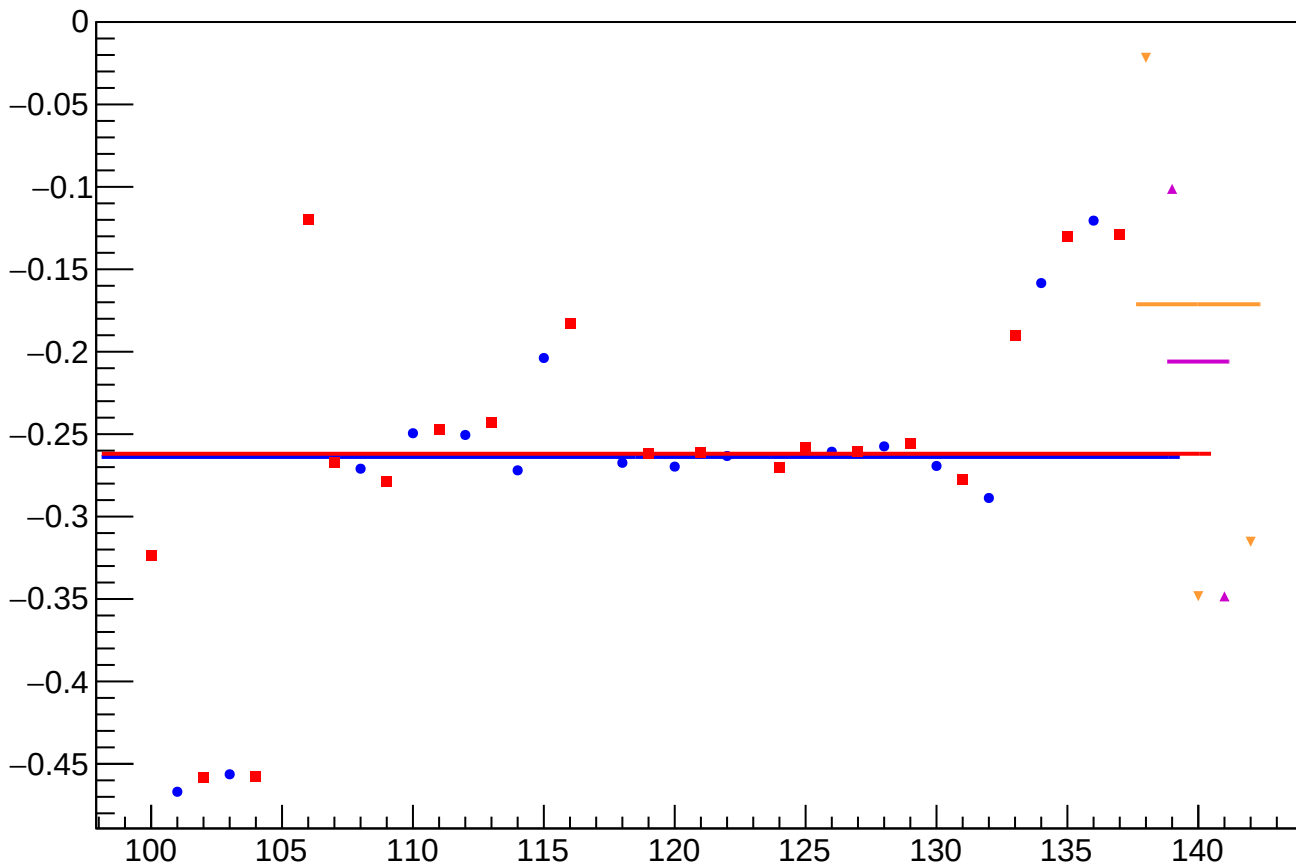
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 229327.8/34

In: 0.012 $\pm$ 0.000 χ^2 /NDF:69041.5/17

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:151945.7/21

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 232049.3/39

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.264+/-0.000 χ^2/NDF : 6106171444.3/15

Left Out: -0.171+/-0.000 χ^2/NDF : 2580095016.8/2

Right Out: -0.262+/-0.000 χ^2/NDF : 5250043427.3/18

Left In: -0.206+/-0.000 χ^2/NDF : 1255456131.1/1

Left: -0.187+/-0.000 χ^2/NDF : 3891757164.7/4

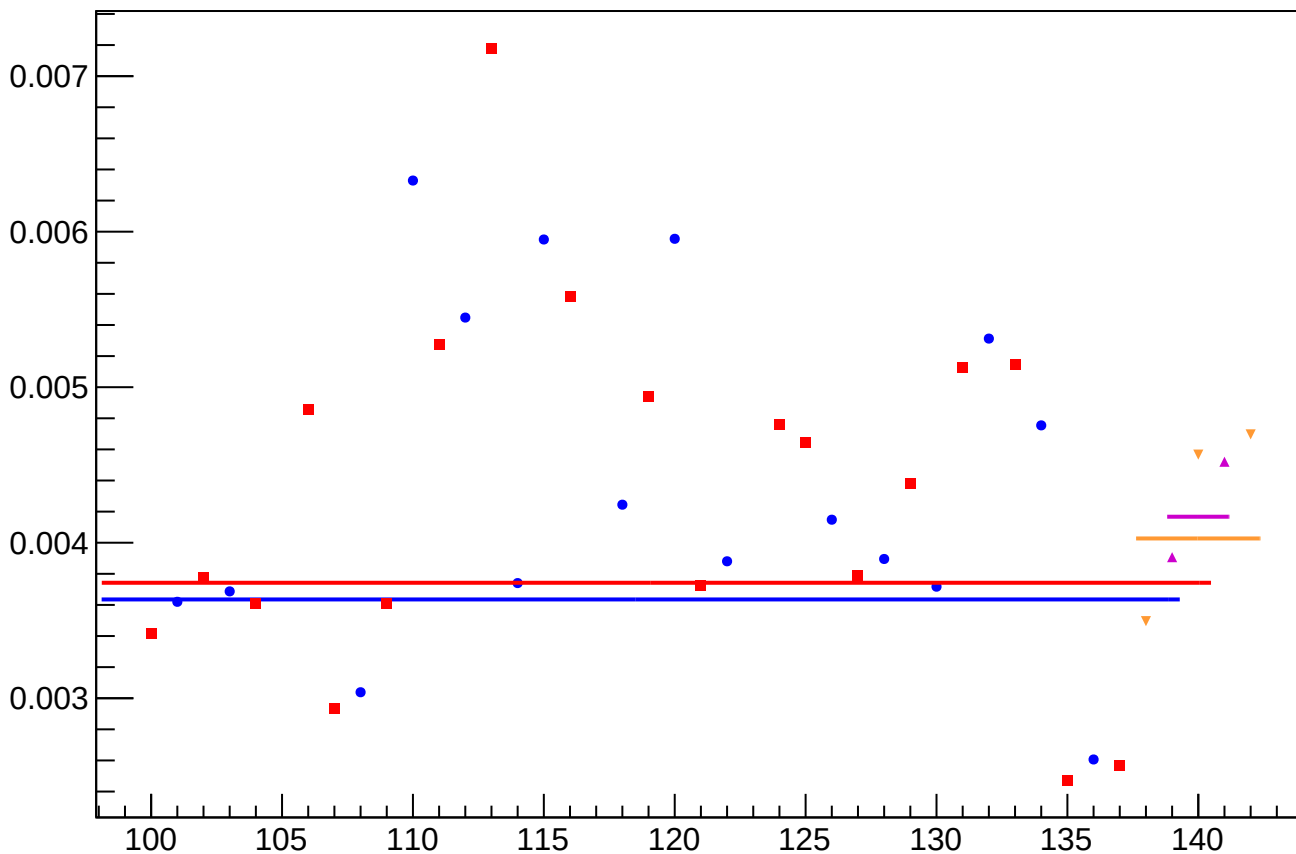
Right: -0.263+/-0.000 χ^2/NDF : 11357011784.3/34

In: -0.254+/-0.000 χ^2/NDF : 7597635838.2/17

Out: -0.244+/-0.000 χ^2/NDF : 8519213090.3/21

All: -0.249+/-0.000 χ^2/NDF : 16144547744.9/74

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 728598.9/15

Left Out: 0.004+/-0.000 χ^2/NDF : 65356.1/2

Right Out: 0.004+/-0.000 χ^2/NDF : 894189.4/18

Left In: 0.004+/-0.000 χ^2/NDF : 15477.4/1

Left: 0.004+/-0.000 χ^2/NDF : 82651.6/4

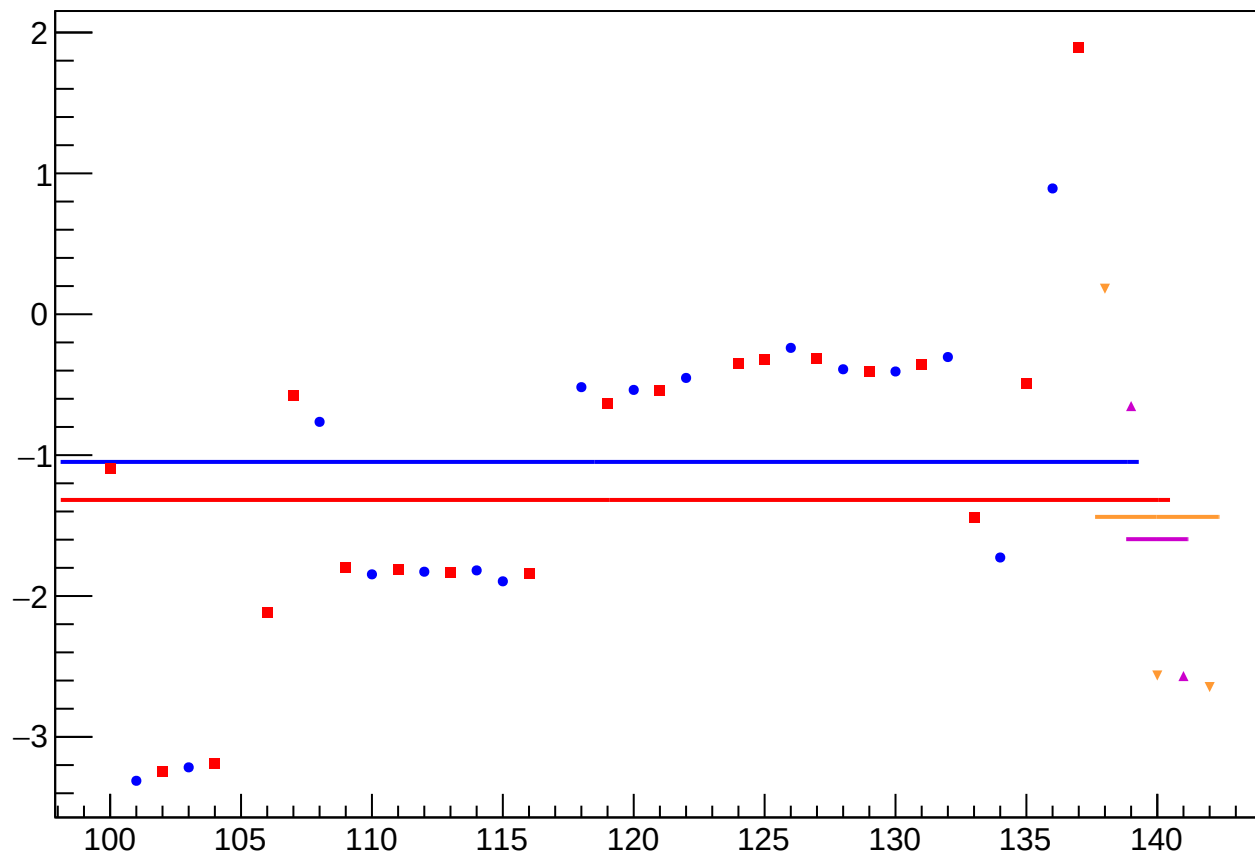
Right: 0.004+/-0.000 χ^2/NDF : 1627770.5/34

In: 0.004+/-0.000 χ^2/NDF : 783995.7/17

Out: 0.004+/-0.000 χ^2/NDF : 973150.0/21

All: 0.004+/-0.000 χ^2/NDF : 1760258.5/39

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.048+/-0.000

χ^2/NDF : 2347020985.5/15

Left: -1.511+/-0.000

χ^2/NDF : 962387400.8/4

Left Out: -1.438+/-0.000

χ^2/NDF : 676416926.7/2

Right: -1.183+/-0.000

χ^2/NDF : 4244956360.2/34

Right Out: -1.318+/-0.000

χ^2/NDF : 1847995615.1/18

In: -1.149+/-0.000

χ^2/NDF : 2704250571.5/17

Out: -1.343+/-0.000

χ^2/NDF : 2528546323.8/21

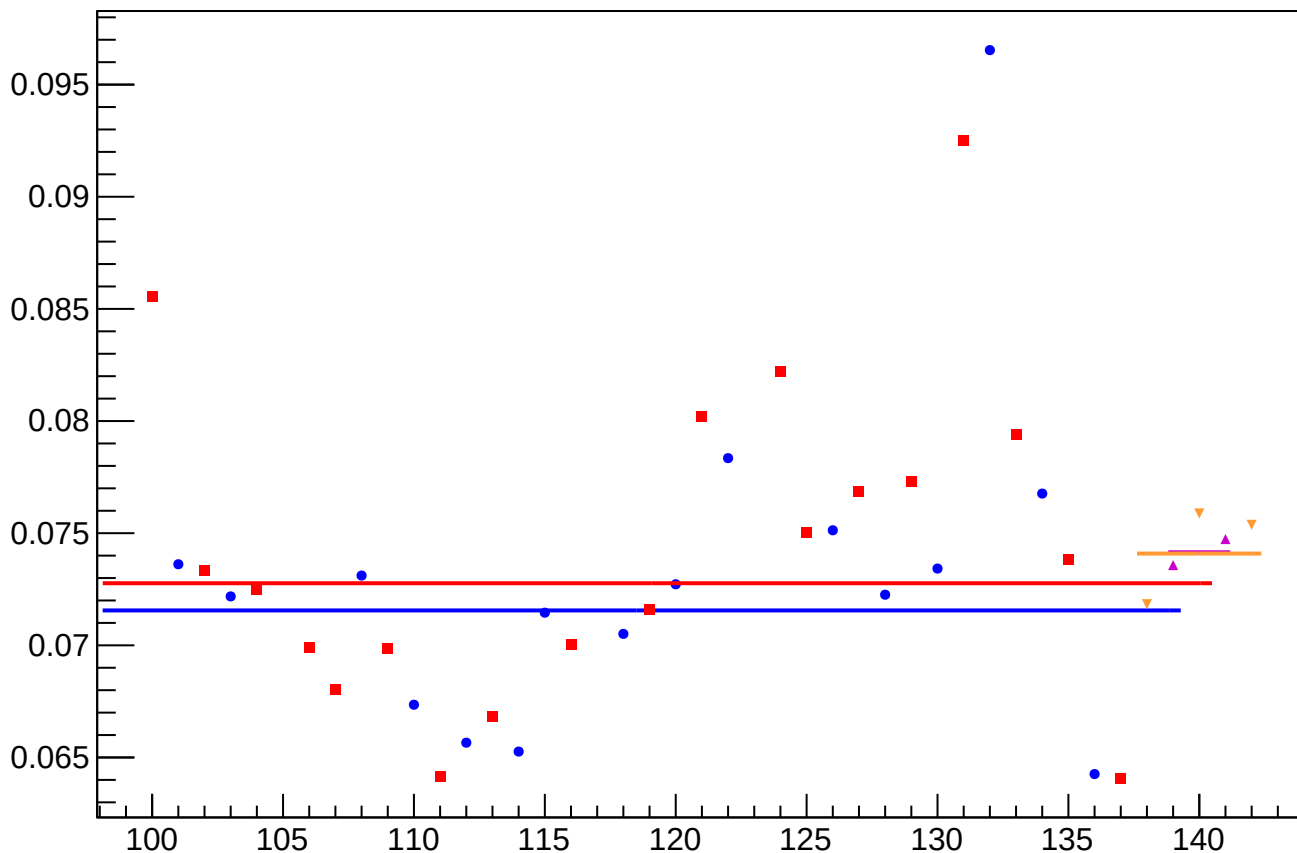
Left In: -1.596+/-0.000

χ^2/NDF : 281816024.1/1

All: -1.247+/-0.000

χ^2/NDF : 5265065117.9/3

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.072+/-0.000 χ^2/NDF : 101238.7/15

Left Out: 0.074+/-0.000 χ^2/NDF :2653.1/2

Right Out: 0.073+/-0.000 χ^2/NDF : 96874.2/18

Left In: 0.074+/-0.000 χ^2/NDF :206.5/1

Left: 0.074+/-0.000 χ^2/NDF : 2860.8/4

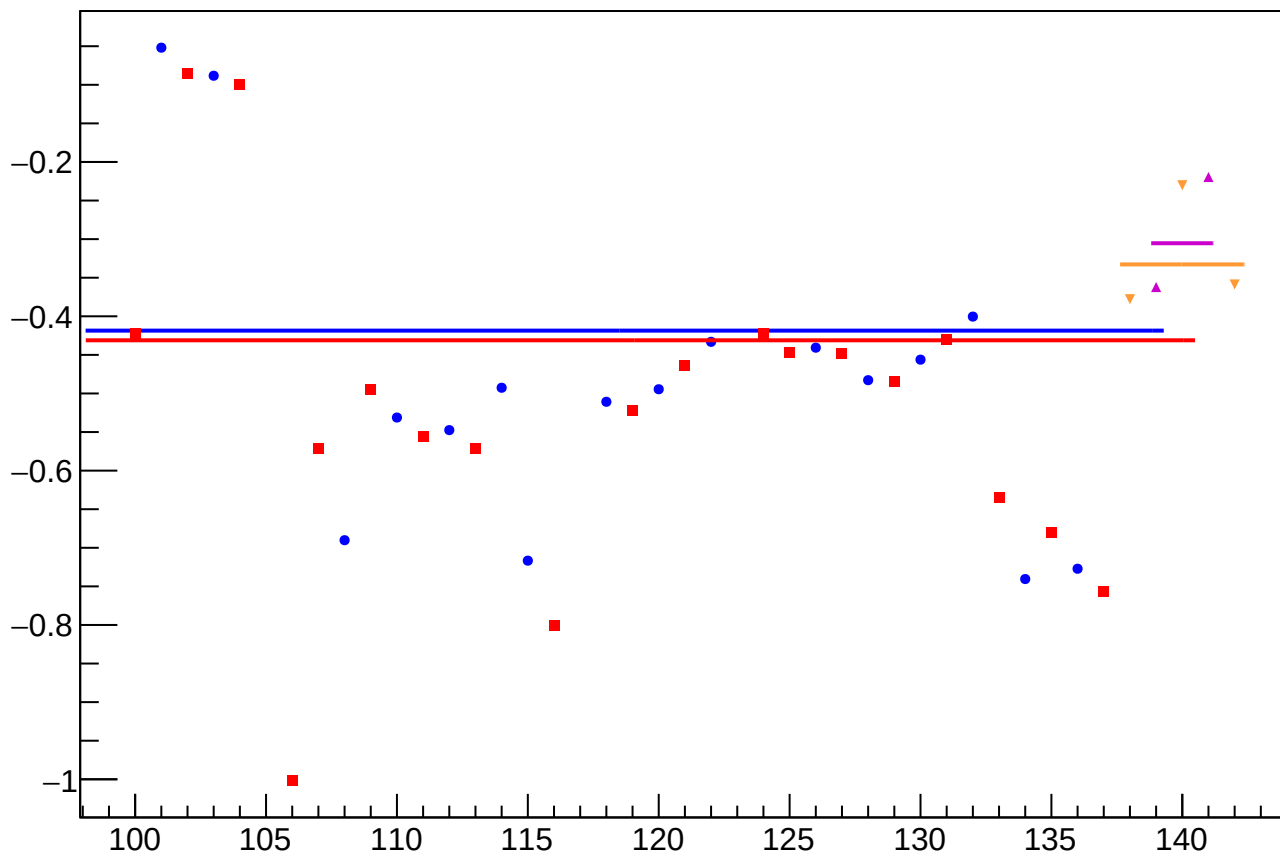
Right: 0.072+/-0.000 χ^2/NDF : 200129.9/34

In: 0.072+/-0.000 χ^2/NDF :104819.7/17

Out: 0.073+/-0.000 χ^2/NDF :100527.0/21

All: 0.073+/-0.000 χ^2/NDF : 207098.2/39

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.419+/-0.000

χ^2/NDF : 3072147227.9/15

Left: -0.321+/-0.000

χ^2/NDF : 253793594.6/4

Left Out: -0.333+/-0.000

χ^2/NDF : 129043835.2/2

Right: -0.425+/-0.000

χ^2/NDF : 6272338159.2/34

Right Out: -0.431+/-0.000

χ^2/NDF : 3196655095.4/18

In: -0.379+/-0.000

χ^2/NDF : 3384347957.2/17

Out: -0.392+/-0.000

χ^2/NDF : 3500215824.4/21

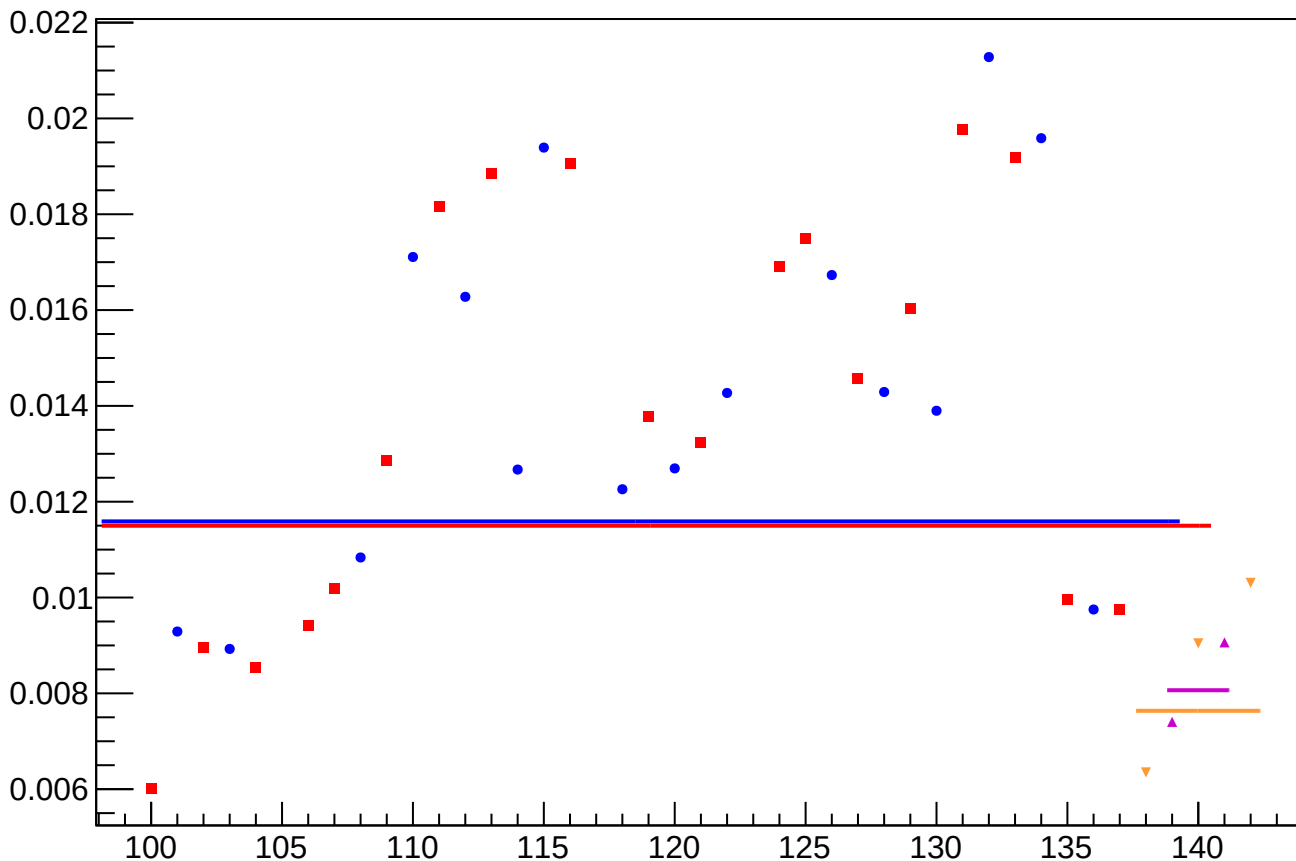
Left In: -0.305+/-0.000

χ^2/NDF : 114822001.5/1

All: -0.386+/-0.000

χ^2/NDF : 6890384870.5/3

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 786260.7/15

Left Out: 0.008+/-0.000 χ^2/NDF :146793.6/2

Right Out: 0.011+/-0.000 χ^2/NDF : 1164657.0/18

Left In: 0.008+/-0.000 χ^2/NDF :31093.0/1

Left: 0.008+/-0.000 χ^2/NDF : 182752.3/4

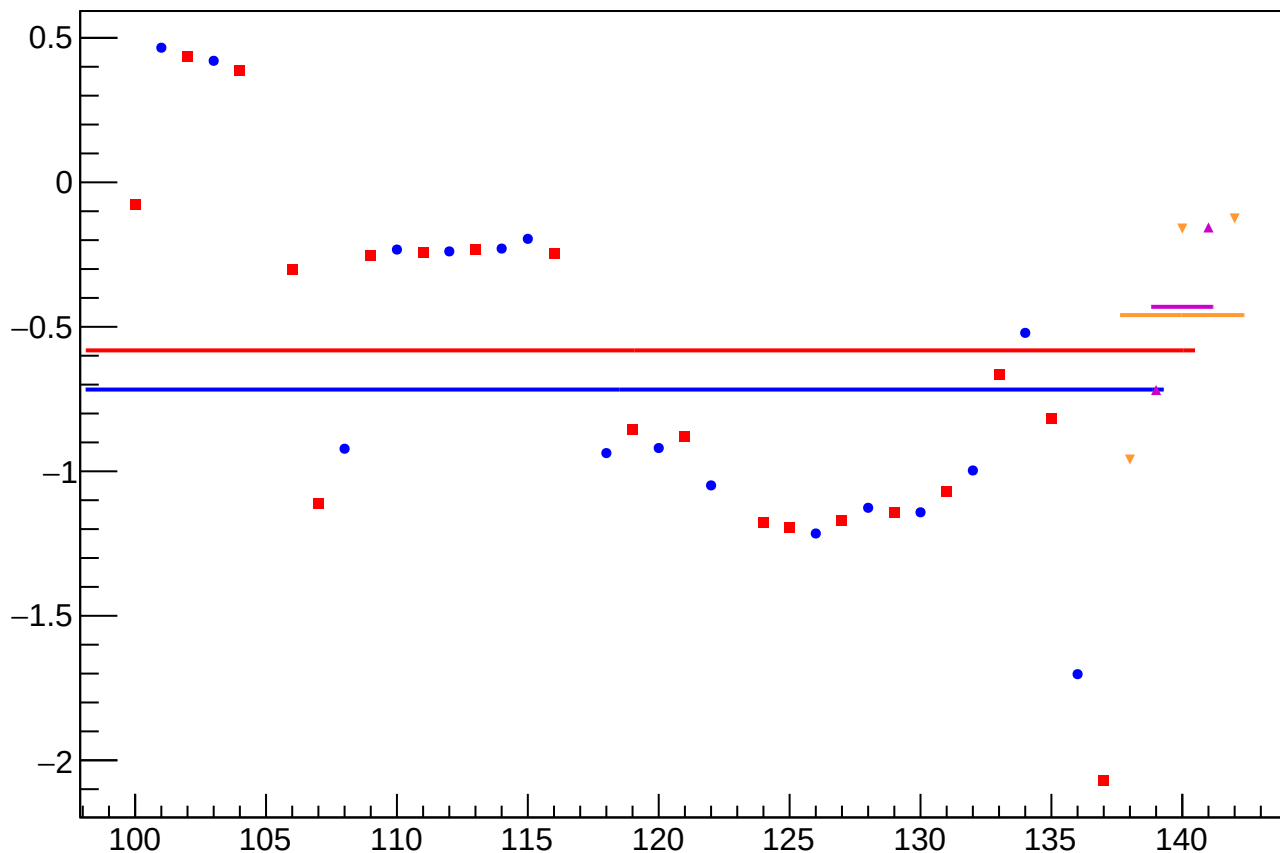
Right: 0.012+/-0.000 χ^2/NDF : 1951282.6/34

In: 0.010+/-0.000 χ^2/NDF :1199598.1/17

Out: 0.010+/-0.000 χ^2/NDF :1849996.2/21

All: 0.010+/-0.000 χ^2/NDF : 3061160.8/39

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.717+/-0.000 χ^2/NDF : 437423792.4/15

Left Out: -0.459+/-0.000 χ^2/NDF : 46172123.6/2

Right Out: -0.582+/-0.000 χ^2/NDF : 342062039.8/18

Left In: -0.431+/-0.000 χ^2/NDF : 19661517.7/1

Left: -0.446+/-0.000 χ^2/NDF : 65944870.9/4

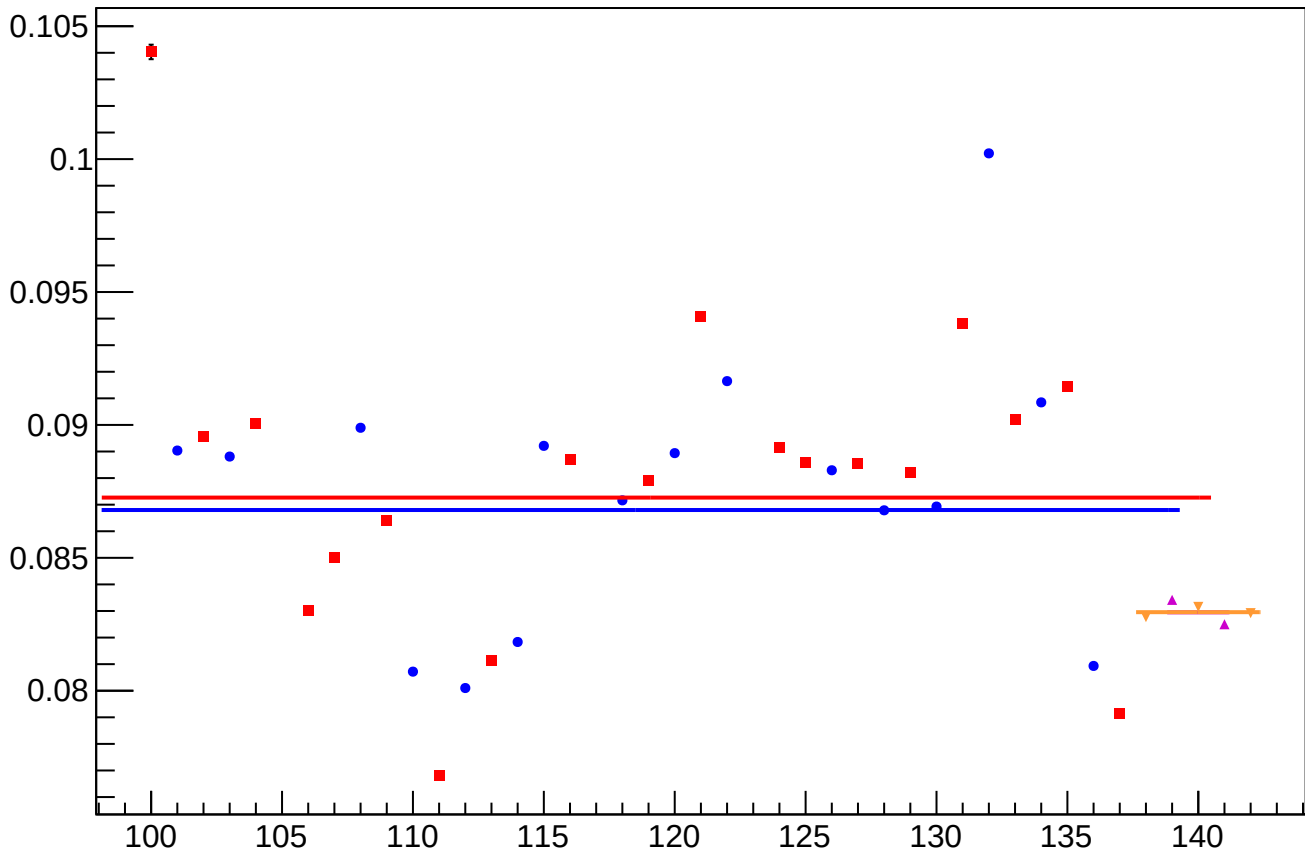
Right: -0.648+/-0.000 χ^2/NDF : 788347373.4/34

In: -0.658+/-0.000 χ^2/NDF : 473253982.2/17

Out: -0.553+/-0.000 χ^2/NDF : 391621915.9/21

All: -0.604+/-0.000 χ^2/NDF : 871641155.8/39

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.087 $\pm$ 0.000 χ^2 /NDF: 43575.8/15

Left Out: 0.083 $\pm$ 0.000 χ^2 /NDF:17.4/2

Right Out: 0.087 $\pm$ 0.000 χ^2 /NDF: 46163.9/18

Left In: 0.083 $\pm$ 0.000 χ^2 /NDF:104.7/1

Left: 0.083 $\pm$ 0.000 χ^2 /NDF: 122.1/4

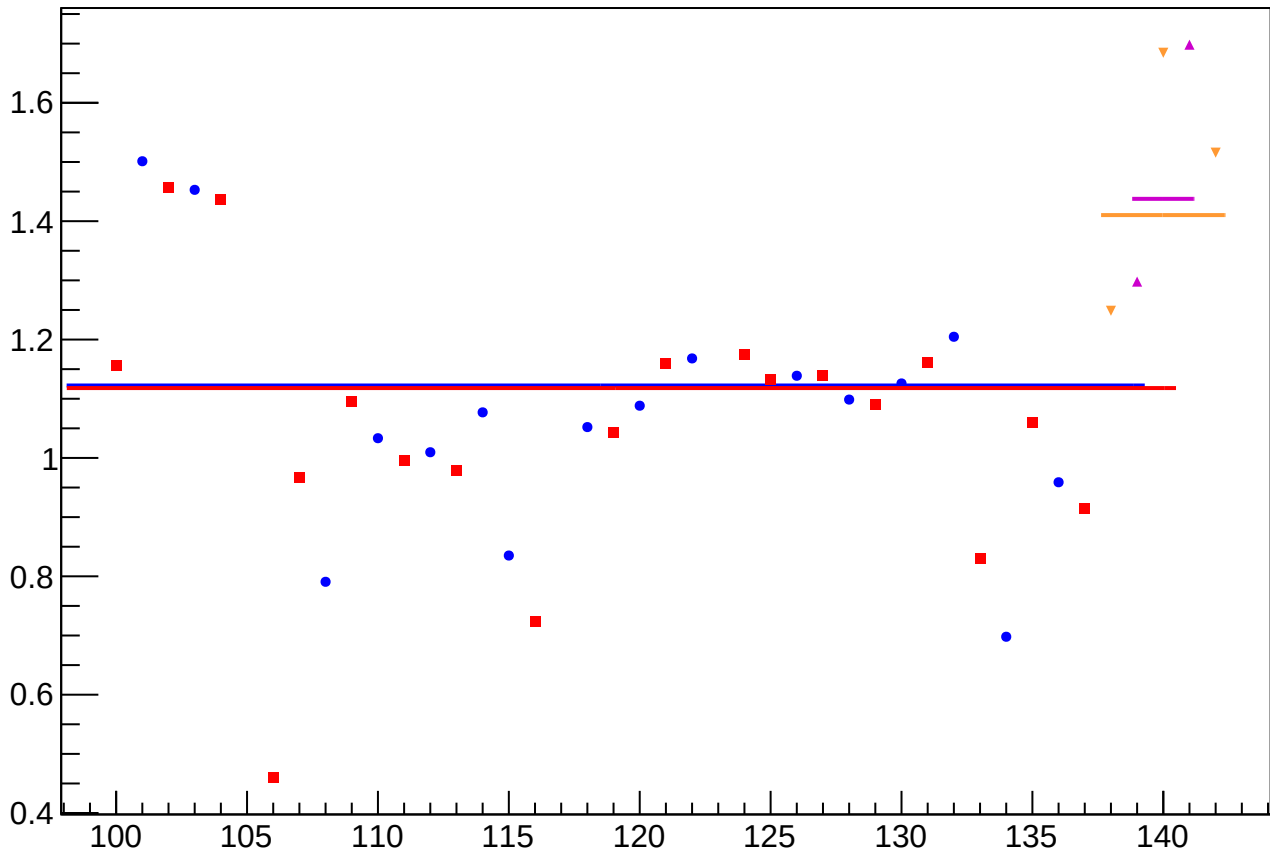
Right: 0.087 $\pm$ 0.000 χ^2 /NDF: 89950.5/34

In: 0.086 $\pm$ 0.000 χ^2 /NDF:49522.8/17

Out: 0.086 $\pm$ 0.000 χ^2 /NDF:54625.0/21

All: 0.086 $\pm$ 0.000 χ^2 /NDF: 104233.1/39

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.122 $\pm$ 0.000 χ^2 /NDF: 1454303379.1/15

Left Out: 1.410 $\pm$ 0.000 χ^2 /NDF: 840199671.6/2

Right Out: 1.118 $\pm$ 0.000 χ^2 /NDF: 1570269350.9/18

Left In: 1.438 $\pm$ 0.000 χ^2 /NDF: 631398872.8/1

Left: 1.422 $\pm$ 0.000 χ^2 /NDF: 1478868245.1/4

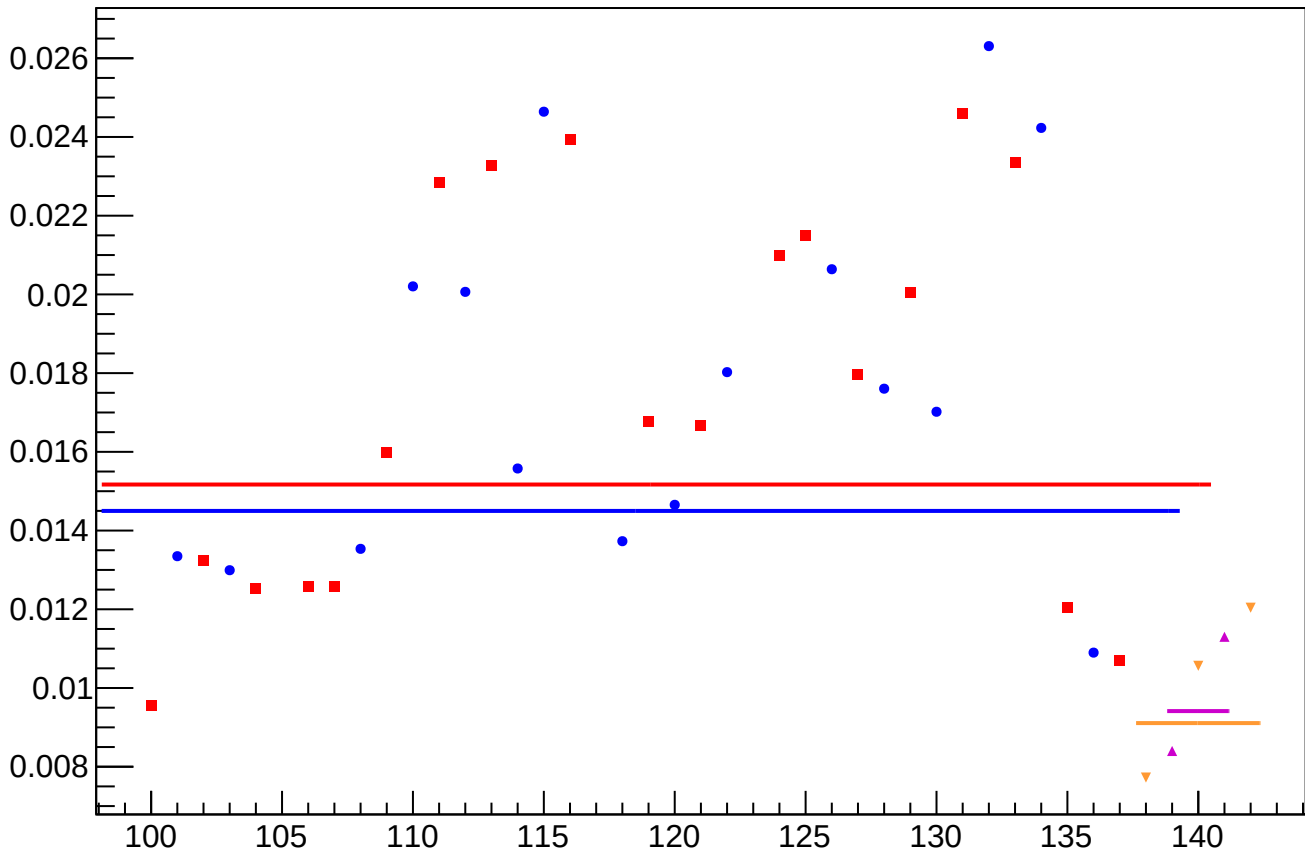
Right: 1.120 $\pm$ 0.000 χ^2 /NDF: 3024831149.0/34

In: 1.242 $\pm$ 0.000 χ^2 /NDF: 3156382695.1/17

Out: 1.250 $\pm$ 0.000 χ^2 /NDF: 3434720564.7/21

All: 1.246 $\pm$ 0.000 χ^2 /NDF: 6592463210.5/39

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 710345.3/15

Left Out: 0.009+/-0.000 χ^2/NDF :123475.9/2

Right Out: 0.015+/-0.000 χ^2/NDF : 864637.6/18

Left In: 0.009+/-0.000 χ^2/NDF :66343.8/1

Left: 0.009+/-0.000 χ^2/NDF : 191615.7/4

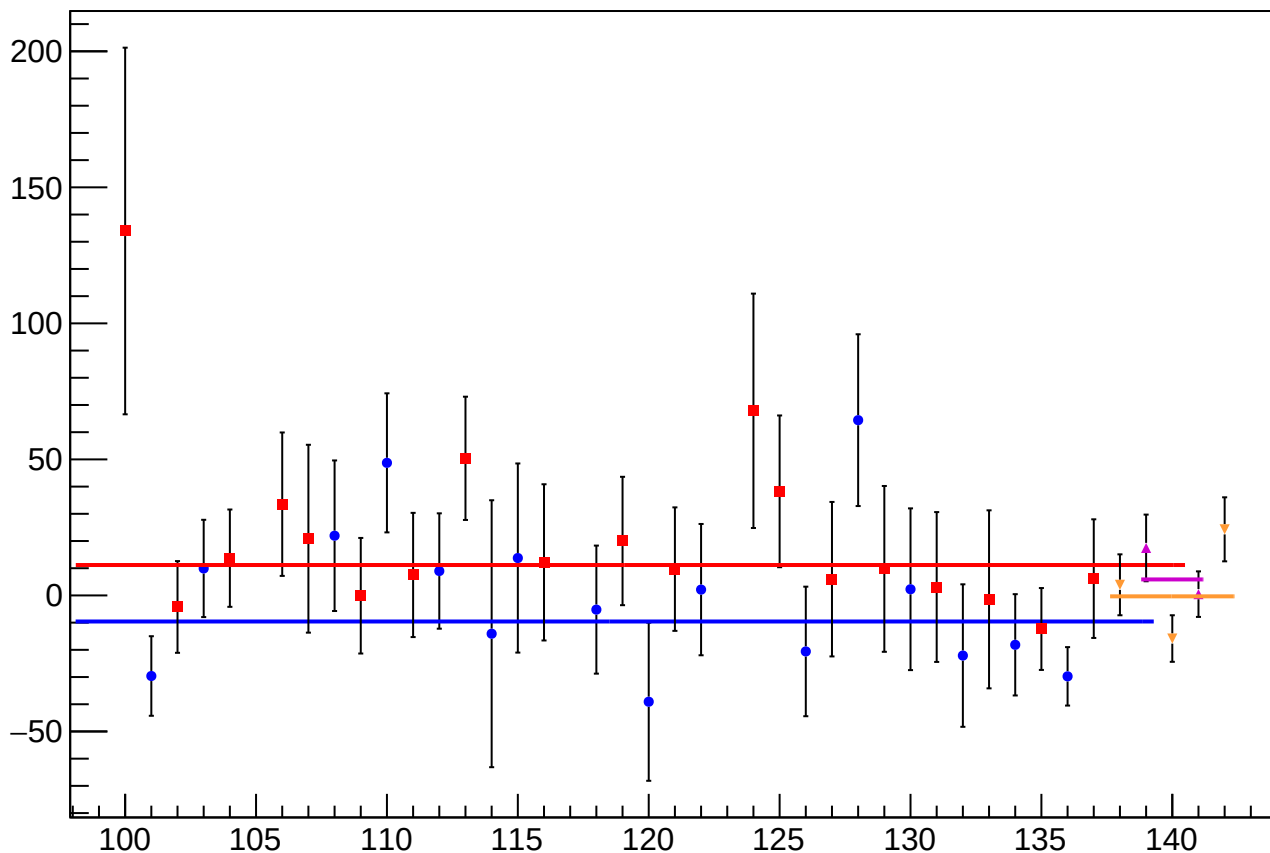
Right: 0.015+/-0.000 χ^2/NDF : 1587355.3/34

In: 0.013+/-0.000 χ^2/NDF :1333552.3/17

Out: 0.012+/-0.000 χ^2/NDF :1869209.0/21

All: 0.013+/-0.000 χ^2/NDF : 3203535.8/39

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -9.581+/-5.291 χ^2/NDF : 21.9/15

Left Out: -0.338+/-5.887 χ^2/NDF : 7.8/2

Right Out: 11.177+/-5.497 χ^2/NDF : 13.9/18

Left In: 5.876+/-6.912 χ^2/NDF : 1.3/1

Left: 2.274+/-4.482 χ^2/NDF : 9.6/4

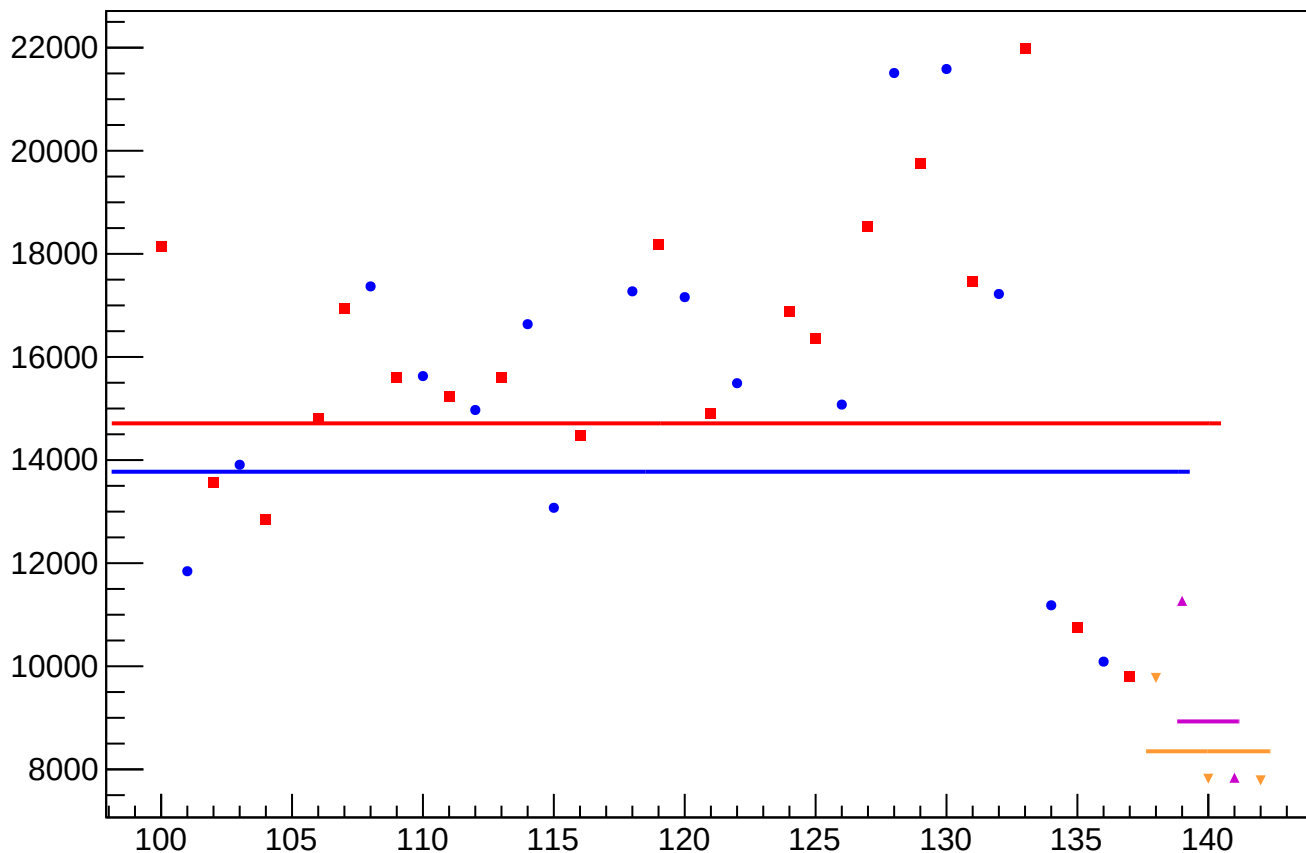
Right: 0.401+/-3.812 χ^2/NDF : 43.2/34

In: -3.871+/-4.201 χ^2/NDF : 26.4/17

Out: 5.814+/-4.018 χ^2/NDF : 23.7/21

All: 1.187+/-2.904 χ^2/NDF : 52.9/39

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 13773.886+/-3.741 χ^2/NDF : 747586.2/15

Left Out: 8350.631+/-4.163 χ^2/NDF : 44633.3/2

Right Out: 14712.201+/-3.887 χ^2/NDF : 557305.5/18

Left In: 8930.034+/-4.888 χ^2/NDF : 106895.9/1

Left: 8594.227+/-3.169 χ^2/NDF : 159673.5/4

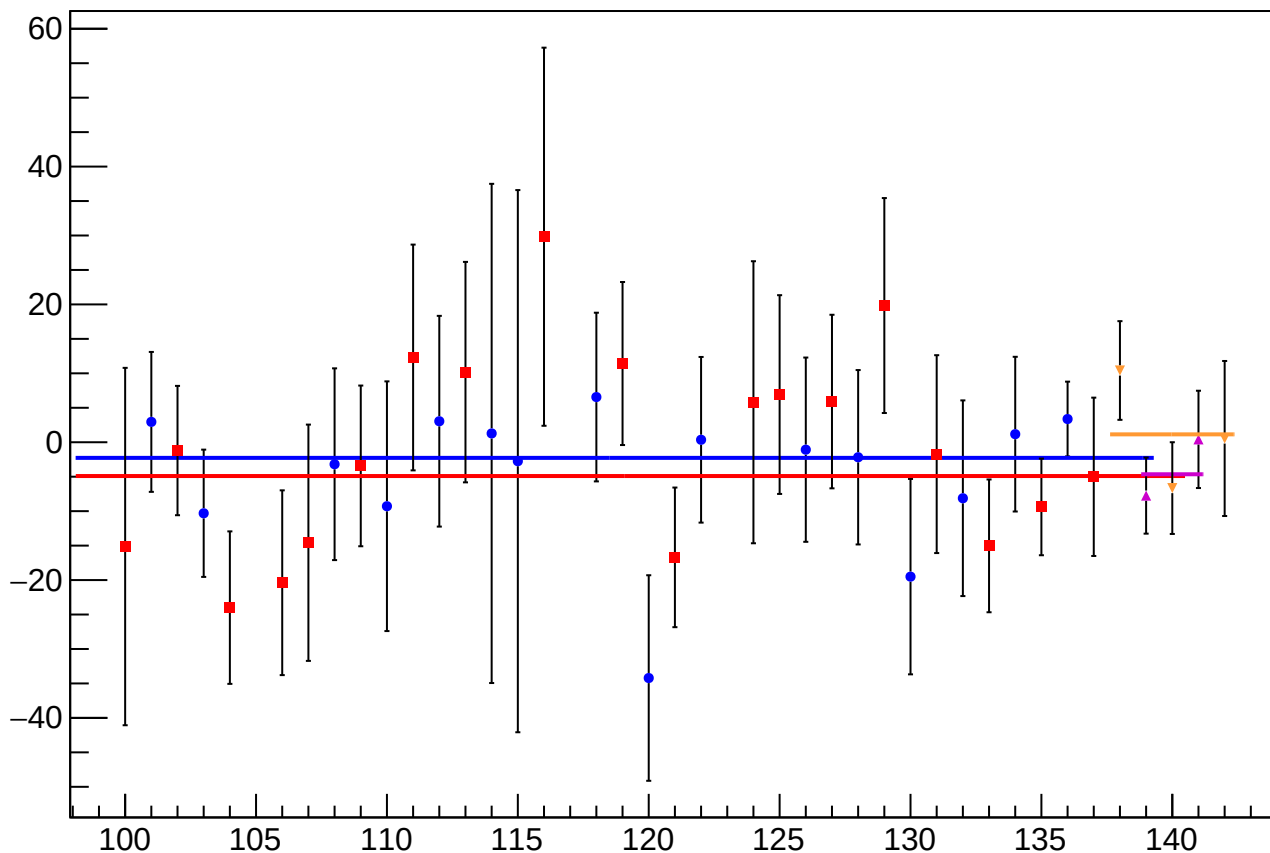
Right: 14225.090+/-2.695 χ^2/NDF : 1335141.9/34

In: 11984.480+/-2.971 χ^2/NDF : 1473788.8/17

Out: 11749.155+/-2.841 χ^2/NDF : 1849480.2/21

All: 11861.570+/-2.053 χ^2/NDF : 3326546.3/3

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -2.267 ± 2.922 χ^2/NDF : 9.3/15

Left Out: 1.144 ± 4.473 χ^2/NDF : 3.1/2

Right Out: -4.904 ± 2.836 χ^2/NDF : 17.6/18

Left In: -4.647 ± 4.349 χ^2/NDF : 0.8/1

Left: -1.832 ± 3.118 χ^2/NDF : 4.7/4

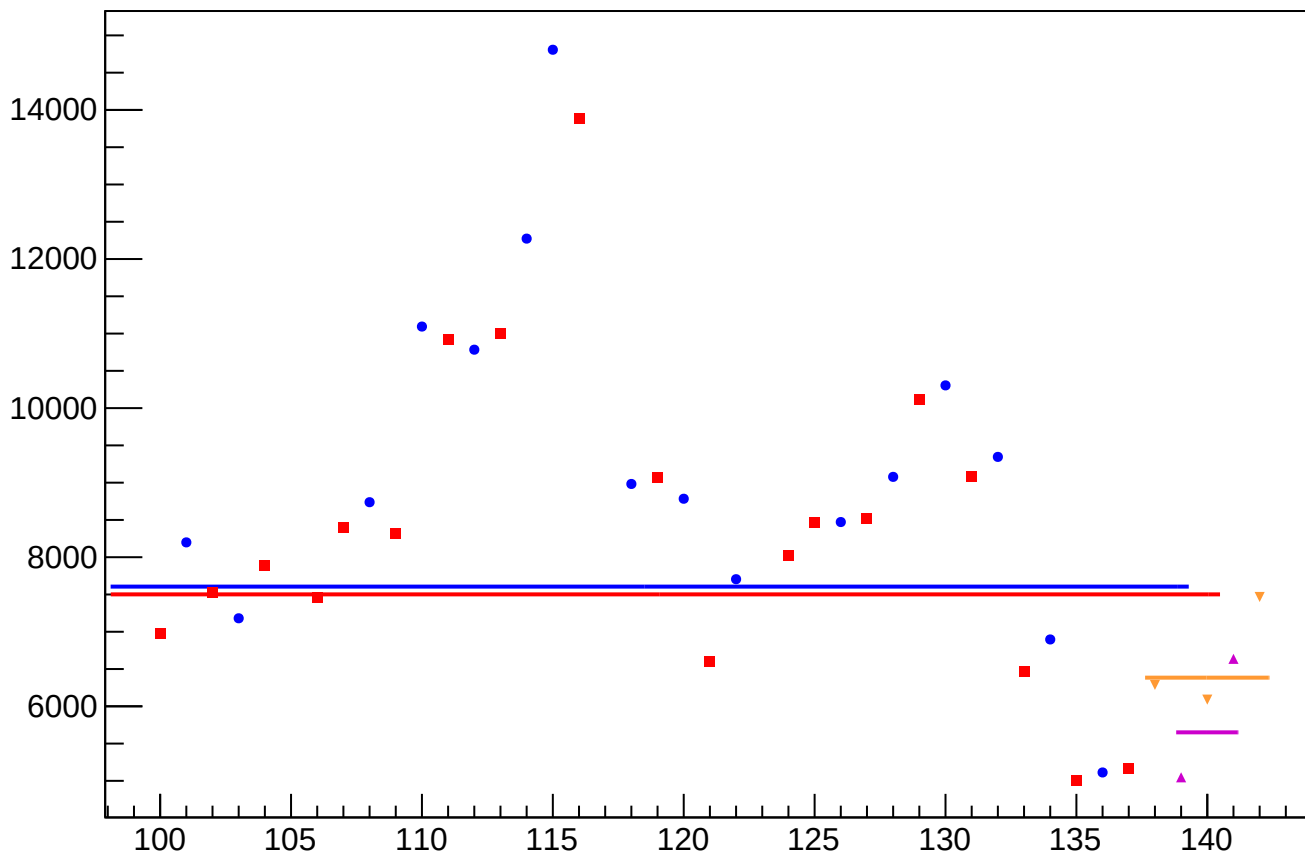
Right: -3.625 ± 2.035 χ^2/NDF : 27.3/34

In: -3.007 ± 2.425 χ^2/NDF : 10.3/17

Out: -3.170 ± 2.395 χ^2/NDF : 21.9/21

All: -3.090 ± 1.704 χ^2/NDF : 32.3/39

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7605.700+/-2.066 χ^2/NDF : 891494.3/15

Left Out: 6384.285+/-3.163 χ^2/NDF : 22809.5/2

Right Out: 7501.522+/-2.005 χ^2/NDF : 823557.5/18

Left In: 5650.626+/-3.075 χ^2/NDF : 62880.2/1

Left: 6007.196+/-2.205 χ^2/NDF : 113349.1/4

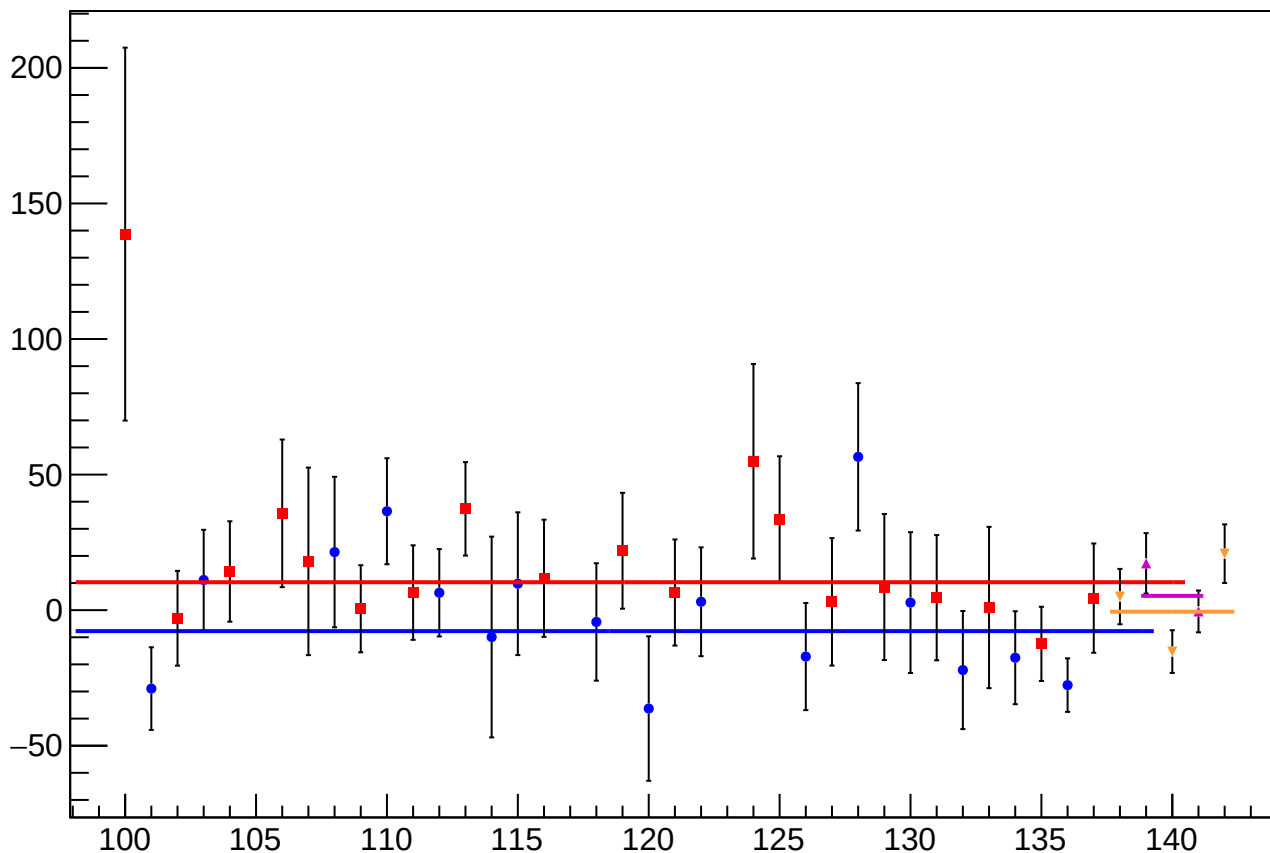
Right: 7552.053+/-1.439 χ^2/NDF : 1716360.9/34

In: 6997.668+/-1.715 χ^2/NDF : 1232824.2/17

Out: 7181.152+/-1.694 χ^2/NDF : 935376.3/21

All: 7090.568+/-1.205 χ^2/NDF : 2173995.5/39

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.741 ± 4.748 $\chi^2/\text{NDF}: 22.7/15$

Left Out: -0.573 ± 5.401 $\chi^2/\text{NDF}: 7.7/2$

Right Out: 10.307 ± 4.840 $\chi^2/\text{NDF}: 13.9/18$

Left In: 5.271 ± 6.340 $\chi^2/\text{NDF}: 1.7/1$

Left: 1.884 ± 4.111 $\chi^2/\text{NDF}: 9.9/4$

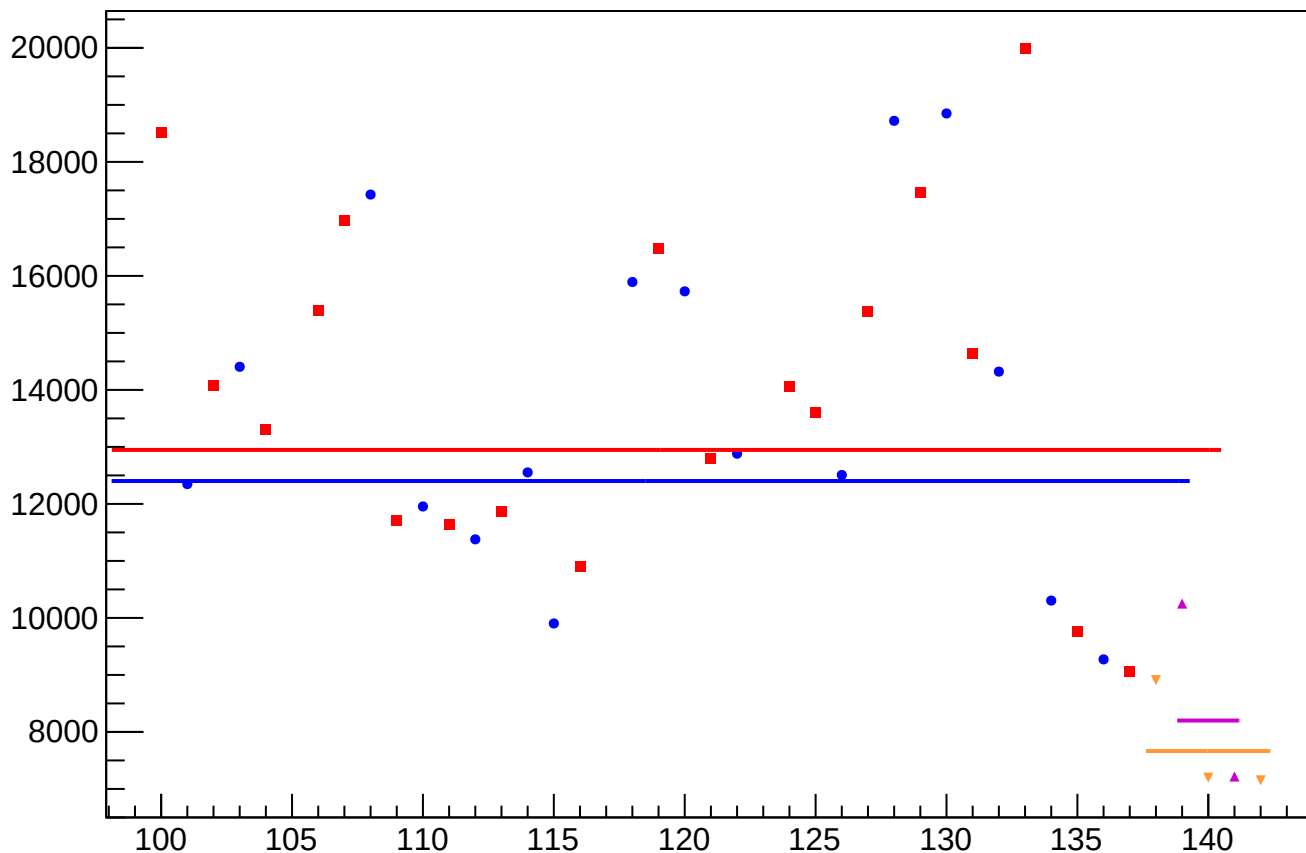
Right: 1.111 ± 3.389 $\chi^2/\text{NDF}: 43.7/34$

In: -3.066 ± 3.801 $\chi^2/\text{NDF}: 27.1/17$

Out: 5.462 ± 3.604 $\chi^2/\text{NDF}: 23.9/21$

All: 1.424 ± 2.615 $\chi^2/\text{NDF}: 53.6/39$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12401.769 $\pm$ 3.357 χ^2/NDF : 678310.8/15

Left Out: 7664.901 $\pm$ 3.819 χ^2/NDF : 41281.7/2

Right Out: 12947.255 $\pm$ 3.422 χ^2/NDF : 555198.3/18

Left In: 8199.658 $\pm$ 4.483 χ^2/NDF : 100213.4/1

Left: 7889.746 $\pm$ 2.907 χ^2/NDF : 149740.1/4

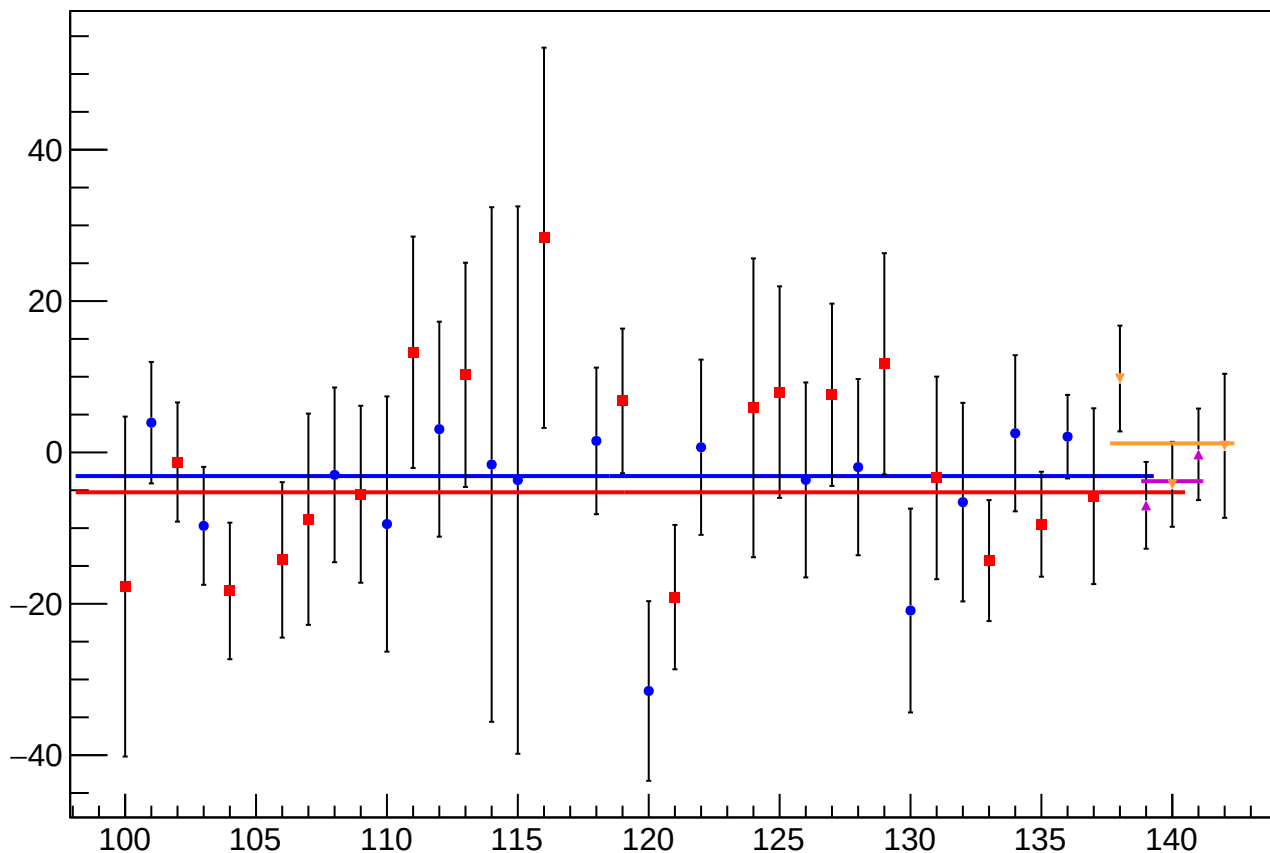
Right: 12669.304 $\pm$ 2.397 χ^2/NDF : 1246455.4/34

In: 10891.911 $\pm$ 2.687 χ^2/NDF : 1341361.1/17

Out: 10594.511 $\pm$ 2.549 χ^2/NDF : 1657669.4/21

All: 10735.330 $\pm$ 1.849 χ^2/NDF : 3005478.2/3

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -3.123 ± 2.656 $\chi^2/\text{NDF}: 10.9/15$

Left Out: 1.198 ± 3.976 $\chi^2/\text{NDF}: 2.4/2$

Right Out: -5.265 ± 2.553 $\chi^2/\text{NDF}: 16.9/18$

Left In: -3.800 ± 4.161 $\chi^2/\text{NDF}: 0.7/1$

Left: -1.187 ± 2.874 $\chi^2/\text{NDF}: 3.8/4$

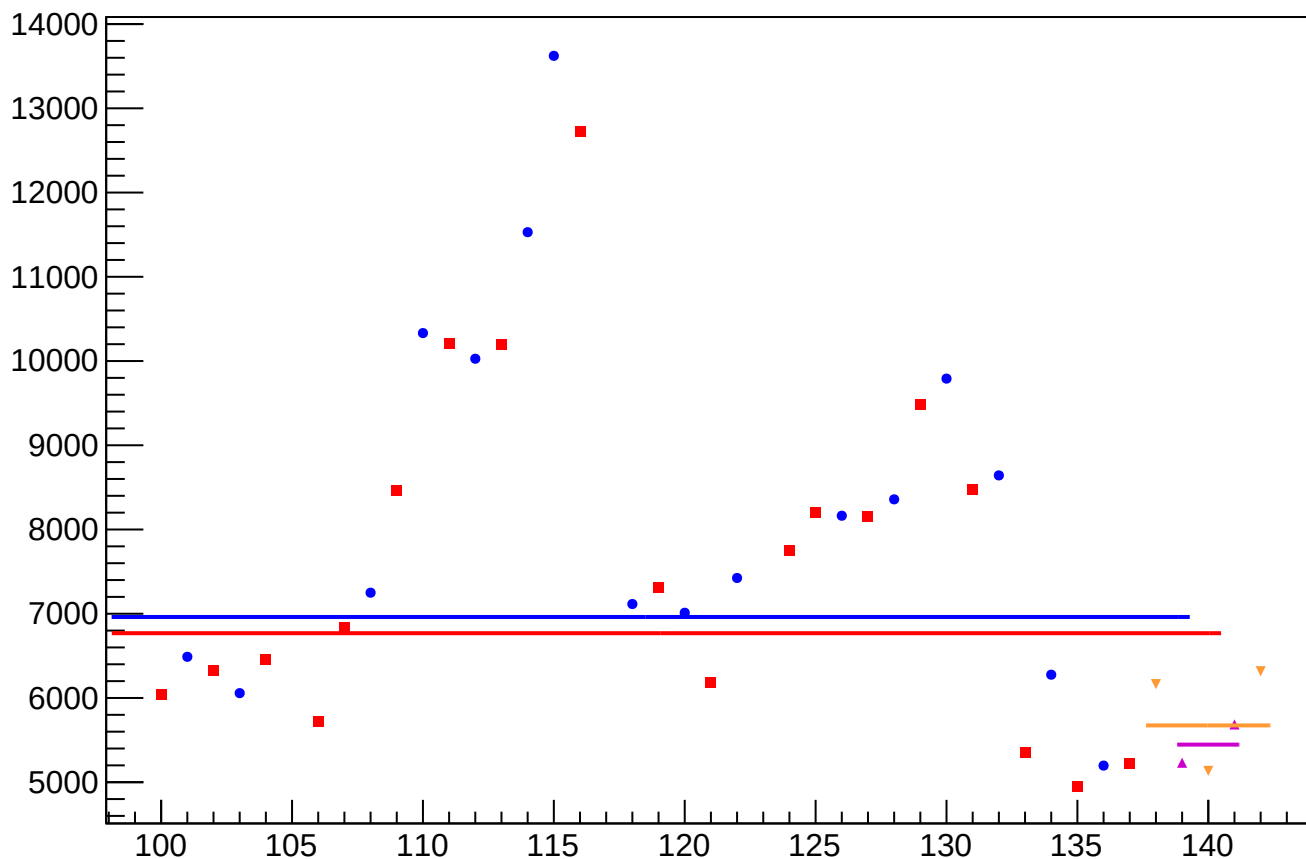
Right: -4.236 ± 1.840 $\chi^2/\text{NDF}: 28.1/34$

In: -3.319 ± 2.239 $\chi^2/\text{NDF}: 11.6/17$

Out: -3.378 ± 2.148 $\chi^2/\text{NDF}: 21.2/21$

All: -3.350 ± 1.550 $\chi^2/\text{NDF}: 32.8/39$

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6961.606+/-1.878 χ^2/NDF : 696410.4/15

Left Out: 5674.298+/-2.811 χ^2/NDF : 37488.3/2

Right Out: 6768.993+/-1.805 χ^2/NDF : 798105.0/18

Left In: 5446.335+/-2.942 χ^2/NDF : 5949.0/1

Left: 5565.505+/-2.033 χ^2/NDF : 46575.5/4

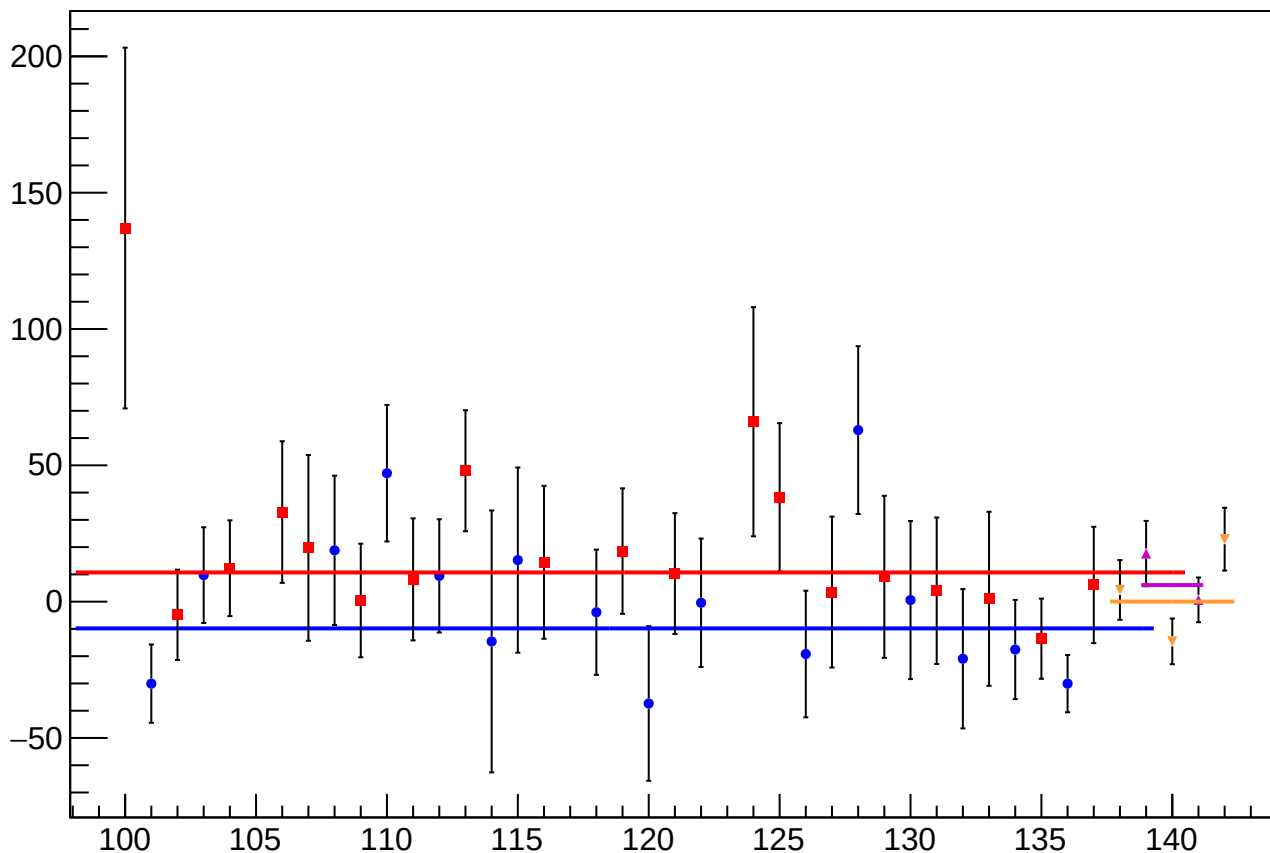
Right: 6861.506+/-1.301 χ^2/NDF : 1499983.0/34

In: 6523.021+/-1.583 χ^2/NDF : 890822.8/17

Out: 6449.367+/-1.519 χ^2/NDF : 942954.2/21

All: 6484.678+/-1.096 χ^2/NDF : 1834904.1/39

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.810 ± 5.178 $\chi^2/\text{NDF}: 22.0/15$

Left Out: 0.033 ± 5.762 $\chi^2/\text{NDF}: 7.1/2$

Right Out: 10.703 ± 5.381 $\chi^2/\text{NDF}: 14.3/18$

Left In: 6.076 ± 6.762 $\chi^2/\text{NDF}: 1.4/1$

Left: 2.575 ± 4.386 $\chi^2/\text{NDF}: 9.0/4$

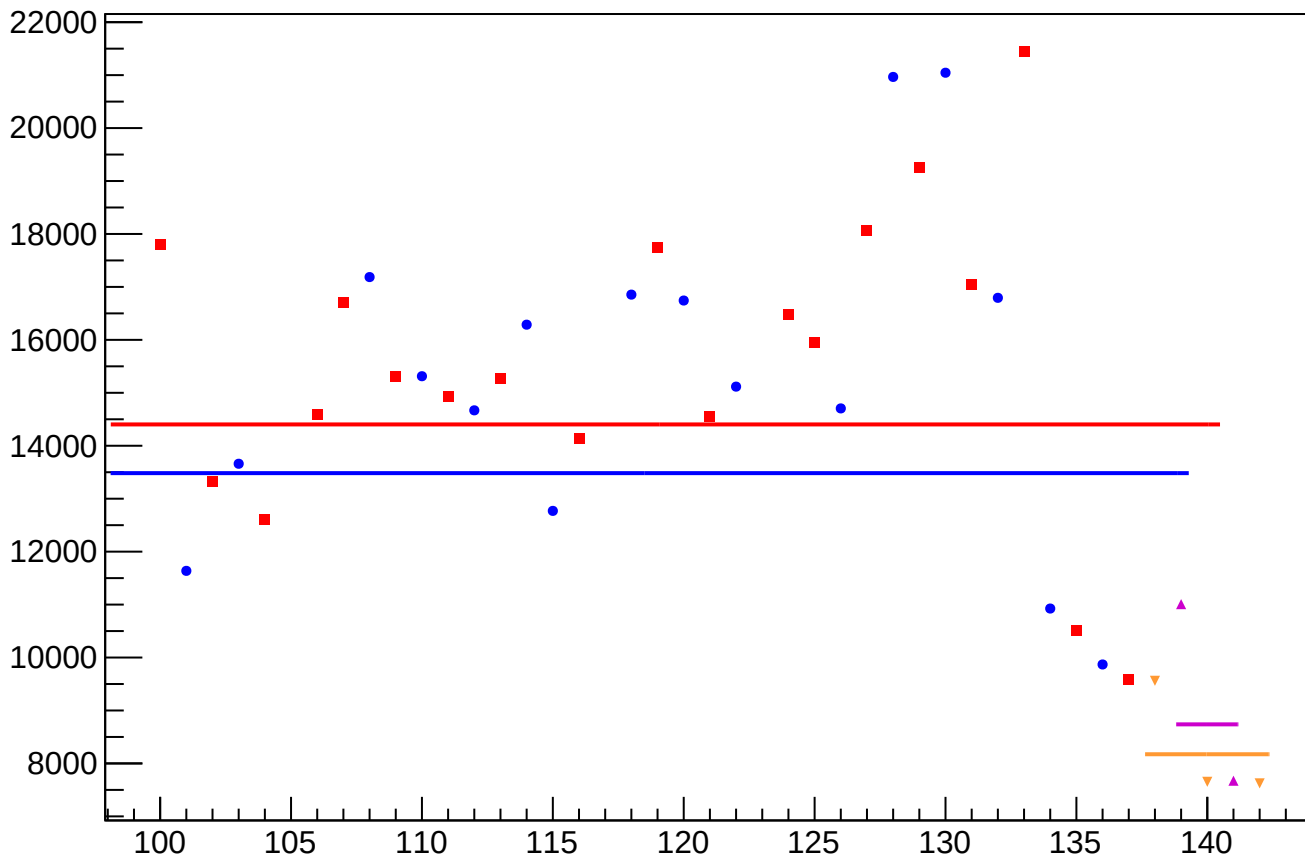
Right: 0.053 ± 3.731 $\chi^2/\text{NDF}: 43.9/34$

In: -3.938 ± 4.111 $\chi^2/\text{NDF}: 26.9/17$

Out: 5.732 ± 3.932 $\chi^2/\text{NDF}: 23.3/21$

All: 1.112 ± 2.842 $\chi^2/\text{NDF}: 53.1/39$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13482.879+/-3.661 χ^2/NDF : 743704.4/15

Left Out: 8173.434+/-4.074 χ^2/NDF : 44362.3/2

Right Out: 14402.670+/-3.805 χ^2/NDF : 552430.0/18

Left In: 8738.001+/-4.782 χ^2/NDF : 105703.5/1

Left: 8410.898+/-3.101 χ^2/NDF : 158142.9/4

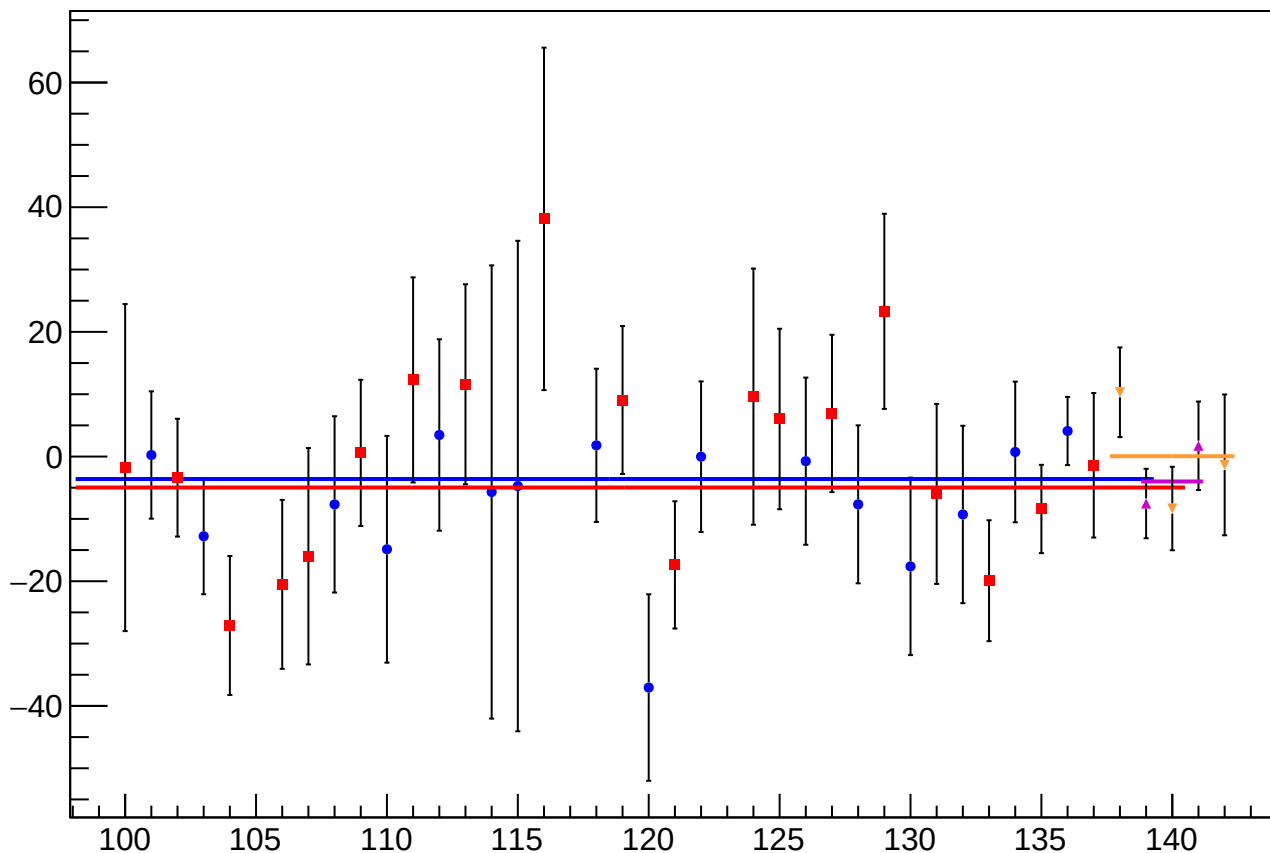
Right: 13925.139+/-2.638 χ^2/NDF : 1326477.7/34

In: 11729.059+/-2.907 χ^2/NDF : 1470142.6/17

Out: 11500.813+/-2.781 χ^2/NDF : 1845560.6/21

All: 11609.867+/-2.009 χ^2/NDF : 3318922.4/3

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -3.605 ± 2.940 χ^2/NDF : 10.5/15

Left Out: 0.053 ± 4.496 χ^2/NDF : 3.6/2

Right Out: -4.965 ± 2.855 χ^2/NDF : 21.4/18

Left In: -4.001 ± 4.381 χ^2/NDF : 1.1/1

Left: -2.027 ± 3.138 χ^2/NDF : 5.1/4

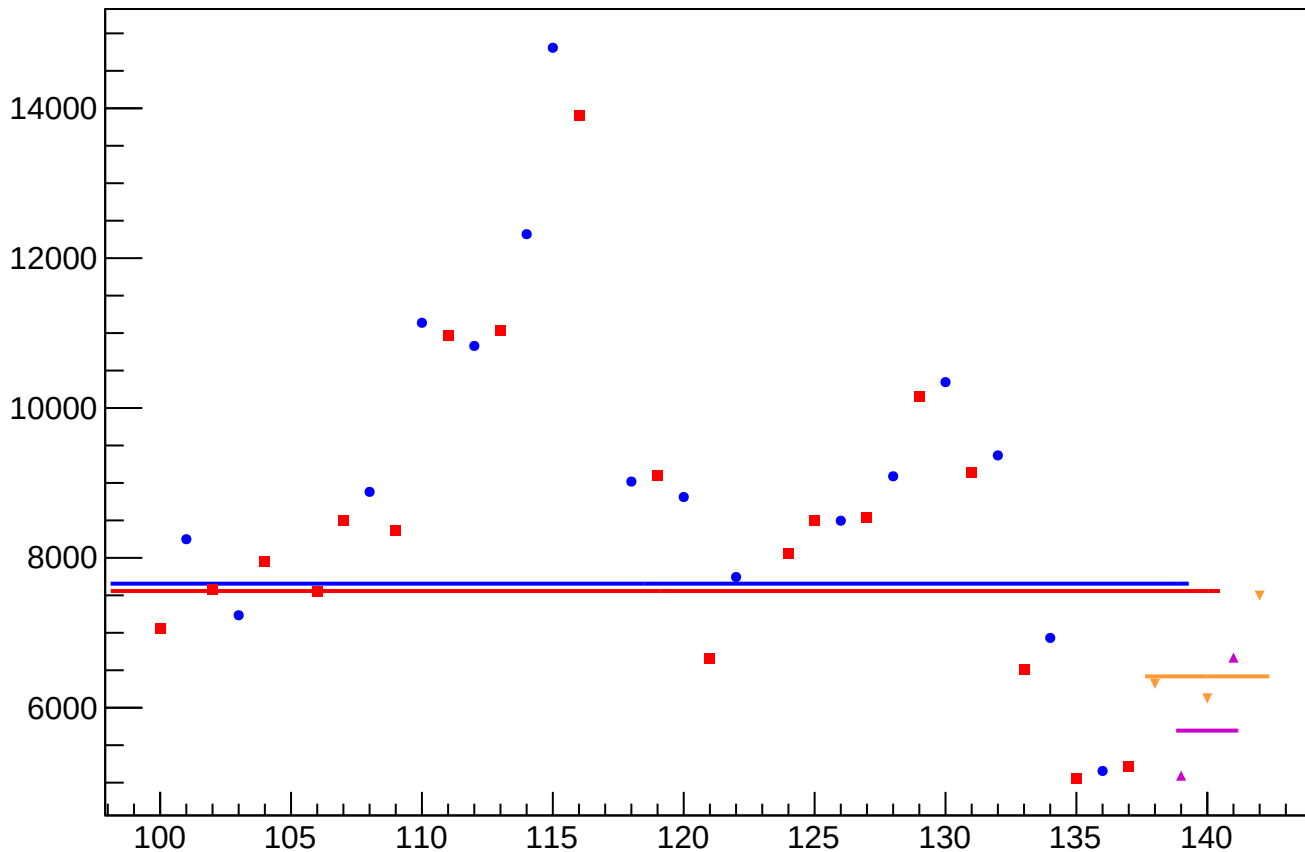
Right: -4.305 ± 2.048 χ^2/NDF : 32.0/34

In: -3.728 ± 2.441 χ^2/NDF : 11.5/17

Out: -3.523 ± 2.410 χ^2/NDF : 25.9/21

All: -3.624 ± 1.715 χ^2/NDF : 37.4/39

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7655.851+/-2.079 χ^2/NDF : 879769.7/15

Left Out: 6418.407+/-3.179 χ^2/NDF : 22441.2/2

Right Out: 7557.497+/-2.019 χ^2/NDF : 809860.3/18

Left In: 5694.543+/-3.098 χ^2/NDF : 61006.1/1

Left: 6047.119+/-2.219 χ^2/NDF : 110039.9/4

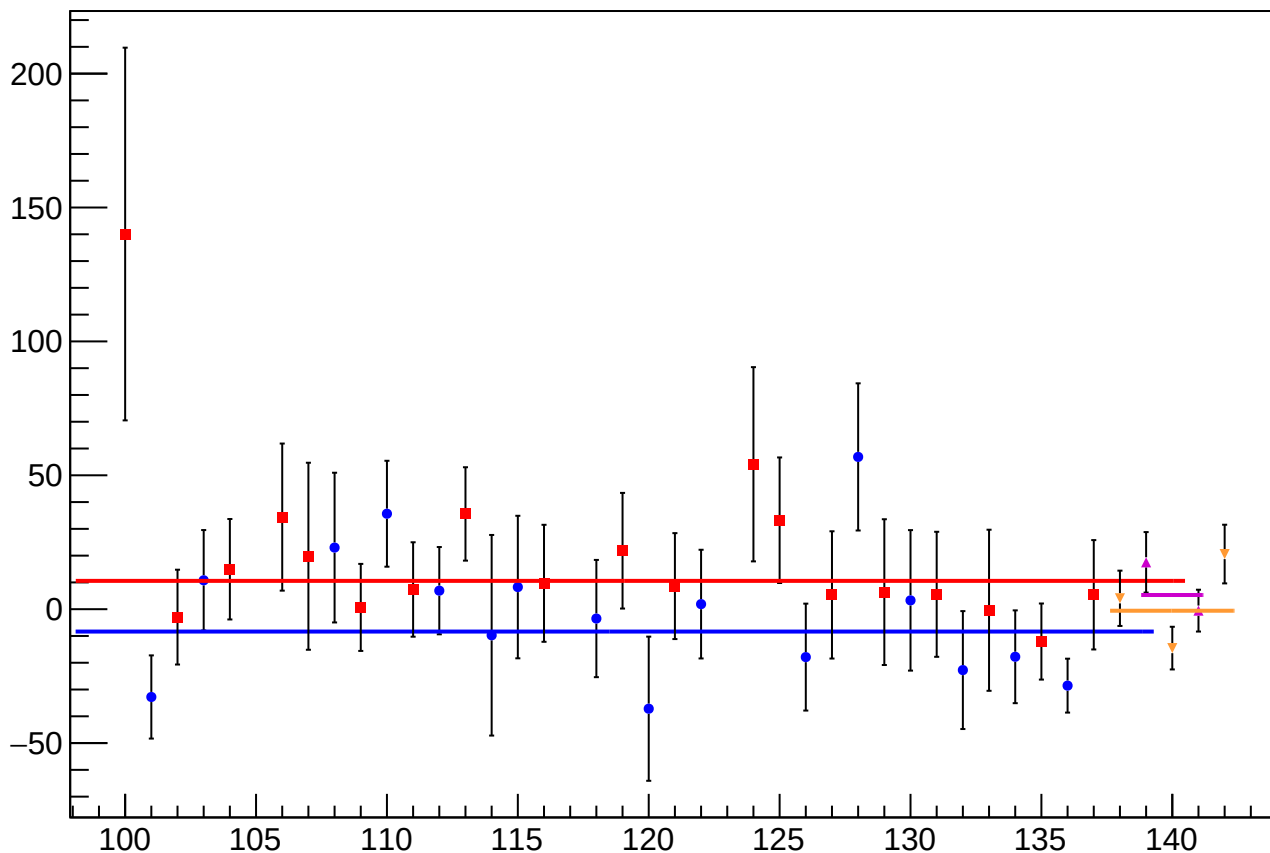
Right: 7605.240+/-1.448 χ^2/NDF : 1690781.9/34

In: 7046.894+/-1.726 χ^2/NDF : 1217141.1/17

Out: 7230.090+/-1.704 χ^2/NDF : 923783.3/21

All: 7139.658+/-1.213 χ^2/NDF : 2146627.3/39

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -8.352 ± 4.814 $\chi^2/\text{NDF}: 23.2/15$

Left Out: -0.575 ± 5.467 $\chi^2/\text{NDF}: 7.0/2$

Right Out: 10.573 ± 4.911 $\chi^2/\text{NDF}: 12.9/18$

Left In: 5.297 ± 6.424 $\chi^2/\text{NDF}: 1.7/1$

Left: 1.891 ± 4.163 $\chi^2/\text{NDF}: 9.2/4$

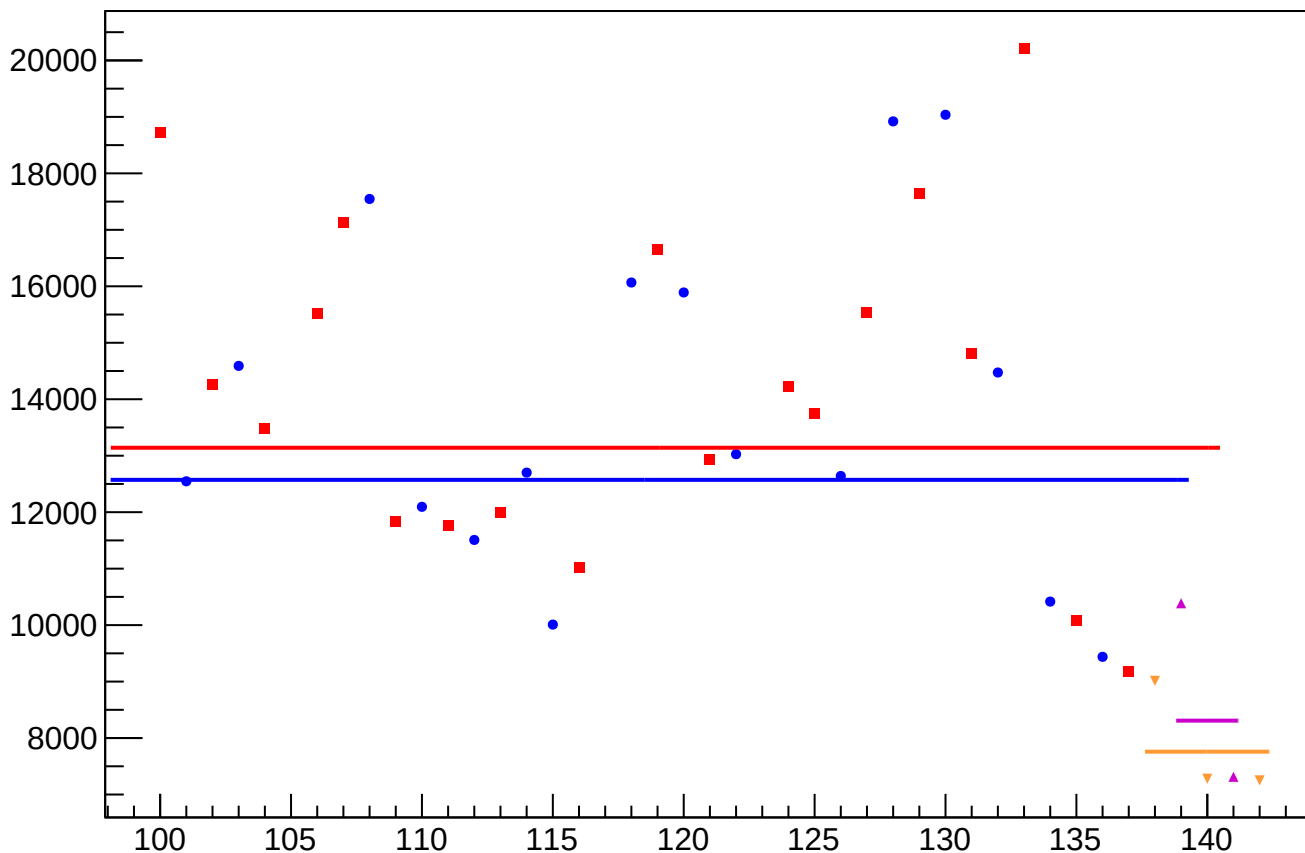
Right: 0.922 ± 3.438 $\chi^2/\text{NDF}: 43.7/34$

In: -3.444 ± 3.852 $\chi^2/\text{NDF}: 27.9/17$

Out: 5.595 ± 3.653 $\chi^2/\text{NDF}: 22.2/21$

All: 1.315 ± 2.651 $\chi^2/\text{NDF}: 53.0/39$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12572.586+/-3.404 χ^2/NDF : 665026.8/15

Left Out: 7758.639+/-3.865 χ^2/NDF :41032.6/2

Right Out: 13141.218+/-3.473 χ^2/NDF : 534726.5/18

Left In: 8308.236+/-4.543 χ^2/NDF :100167.5/1

Left: 7989.461+/-2.944 χ^2/NDF : 149690.2/4

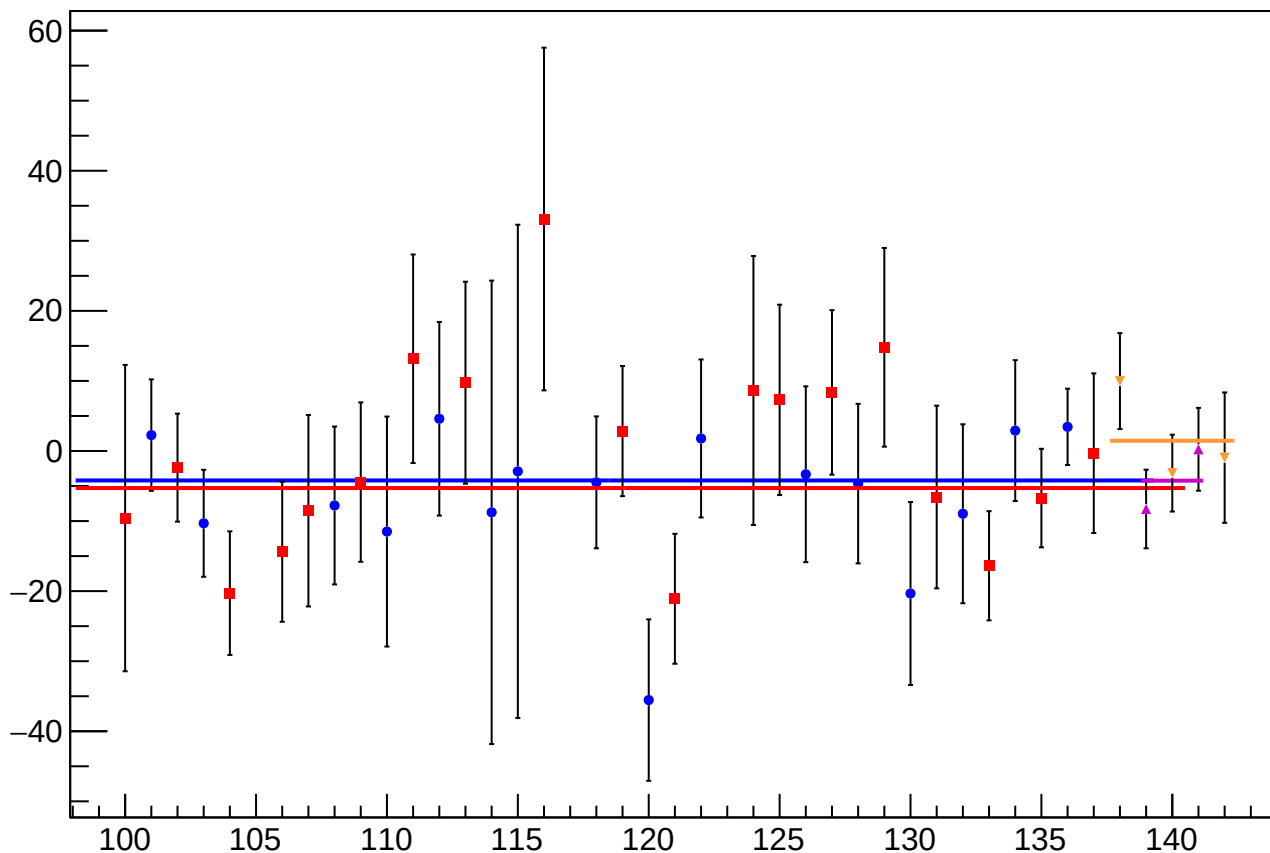
Right: 12851.222+/-2.431 χ^2/NDF : 1213428.5/34

In: 11039.231+/-2.724 χ^2/NDF :1329558.2/17

Out: 10737.354+/-2.583 χ^2/NDF :1648785.8/21

All: 10880.293+/-1.874 χ^2/NDF : 2984810.4/3

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -4.204 ± 2.600 χ^2/NDF : 13.9/15

Left Out: 1.463 ± 3.888 χ^2/NDF : 2.3/2

Right Out: -5.288 ± 2.502 χ^2/NDF : 19.7/18

Left In: -4.235 ± 4.070 χ^2/NDF : 1.1/1

Left: -1.256 ± 2.811 χ^2/NDF : 4.4/4

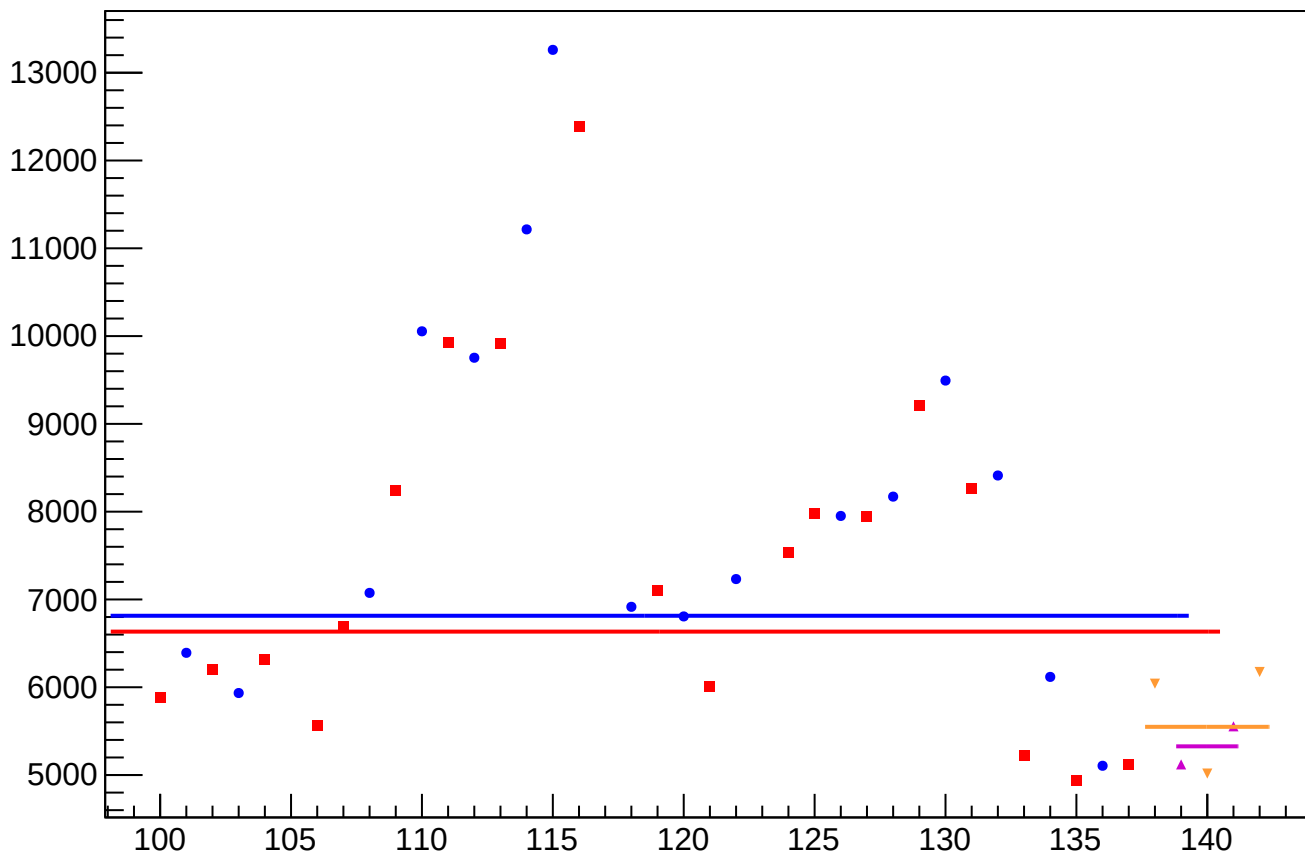
Right: -4.767 ± 1.803 χ^2/NDF : 33.7/34

In: -4.213 ± 2.191 χ^2/NDF : 15.0/17

Out: -3.311 ± 2.104 χ^2/NDF : 24.2/21

All: -3.744 ± 1.518 χ^2/NDF : 39.2/39

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6814.282+/-1.839 χ^2/NDF : 674093.4/15

Left Out: 5549.161+/-2.749 χ^2/NDF : 38172.8/2

Right Out: 6633.695+/-1.769 χ^2/NDF : 763347.6/18

Left In: 5326.889+/-2.878 χ^2/NDF : 5664.5/1

Left: 5443.091+/-1.988 χ^2/NDF : 46956.1/4

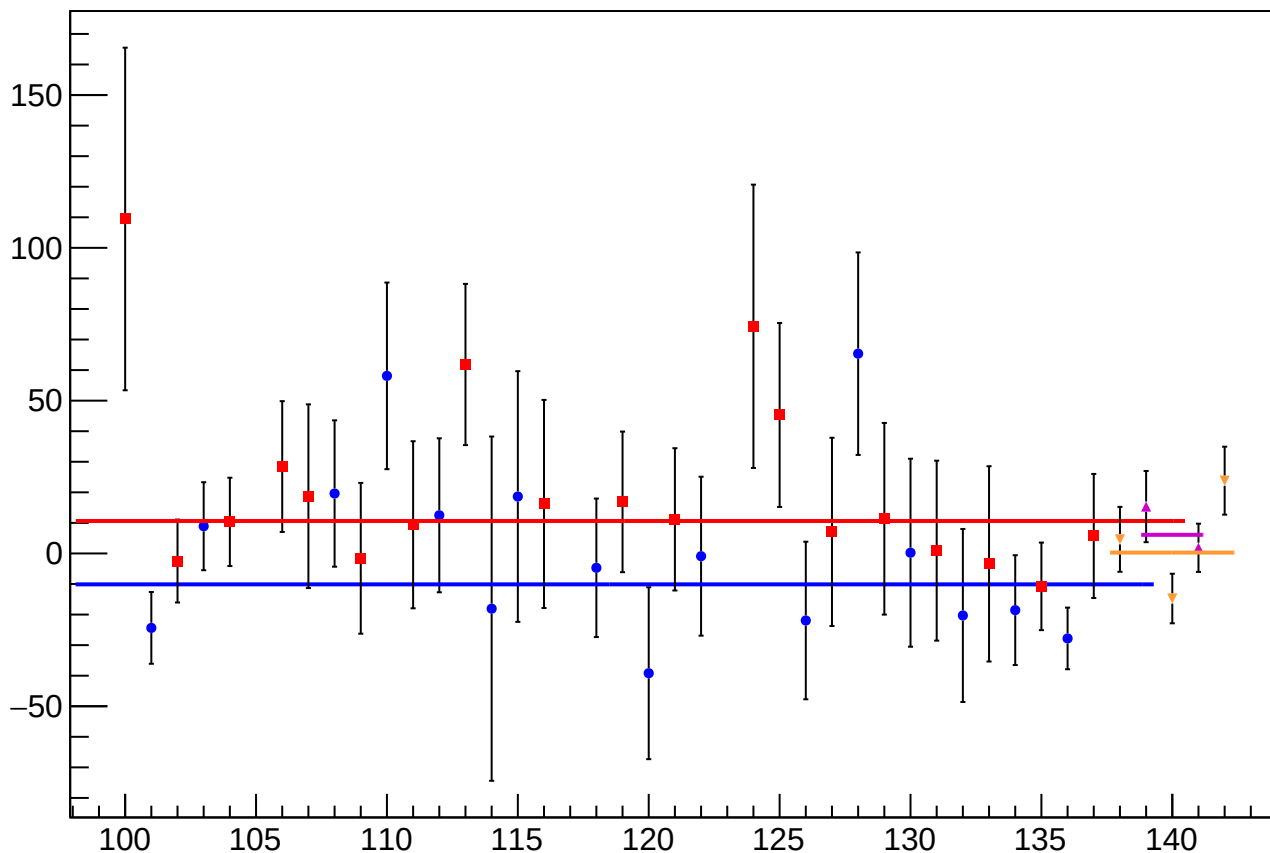
Right: 6720.509+/-1.275 χ^2/NDF : 1442449.8/34

In: 6383.090+/-1.549 χ^2/NDF : 869455.8/17

Out: 6316.128+/-1.488 χ^2/NDF : 911555.3/21

All: 6348.250+/-1.073 χ^2/NDF : 1781982.8/39

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -10.113 ± 5.017 $\chi^2/\text{NDF}: 21.3/15$

Left Out: 0.287 ± 5.576 $\chi^2/\text{NDF}: 8.1/2$

Right Out: 10.624 ± 5.277 $\chi^2/\text{NDF}: 14.7/18$

Left In: 6.097 ± 6.536 $\chi^2/\text{NDF}: 0.9/1$

Left: 2.735 ± 4.242 $\chi^2/\text{NDF}: 9.5/4$

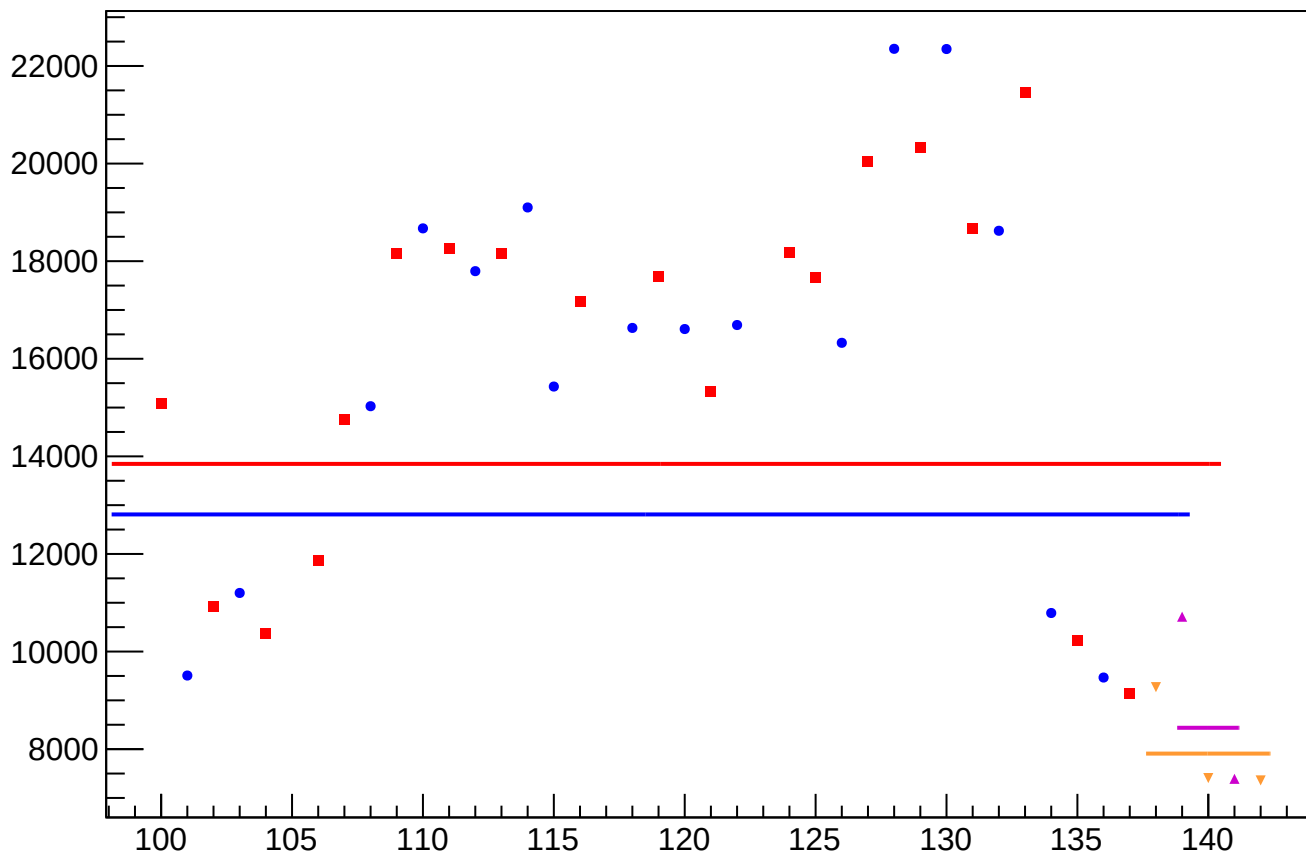
Right: -0.267 ± 3.636 $\chi^2/\text{NDF}: 44.1/34$

In: -4.102 ± 3.980 $\chi^2/\text{NDF}: 26.1/17$

Out: 5.741 ± 3.833 $\chi^2/\text{NDF}: 24.6/21$

All: 1.004 ± 2.761 $\chi^2/\text{NDF}: 53.9/39$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 12809.964+/-3.548 χ^2/NDF : 1248252.1/15

Left Out: 7908.831+/-3.943 χ^2/NDF : 45394.6/2

Right Out: 13845.622+/-3.731 χ^2/NDF : 1096555.2/18

Left In: 8437.795+/-4.621 χ^2/NDF : 111459.2/1

Left: 8131.683+/-3.000 χ^2/NDF : 164435.5/4

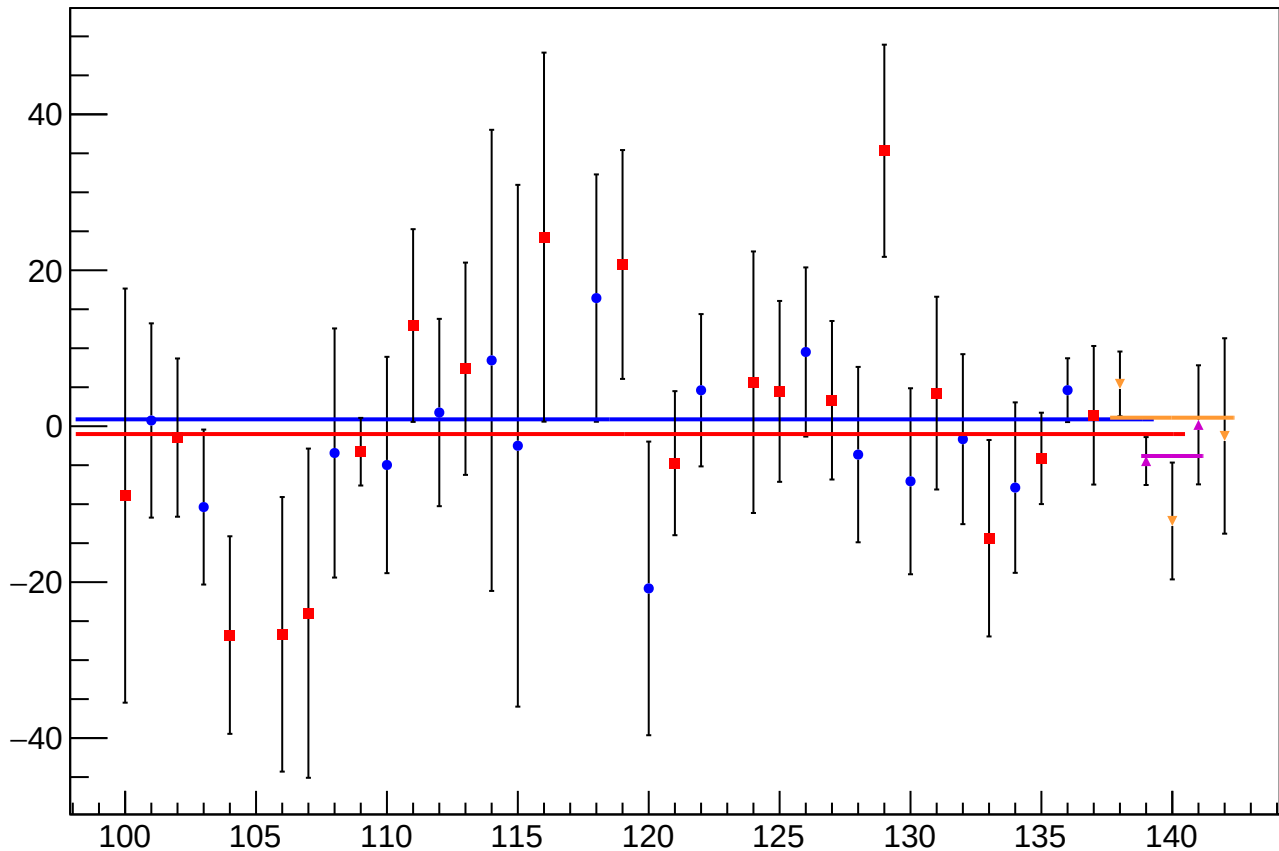
Right: 13301.707+/-2.571 χ^2/NDF : 2385270.2/34

In: 11188.758+/-2.814 χ^2/NDF : 1922878.9/17

Out: 11041.061+/-2.710 χ^2/NDF : 2337934.9/21

All: 11112.131+/-1.952 χ^2/NDF : 4262242.9/3

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.882 ± 2.566 χ^2/NDF : 6.8/15

Left Out: 1.093 ± 3.490 χ^2/NDF : 4.2/2

Right Out: -1.006 ± 2.314 χ^2/NDF : 22.3/18

Left In: -3.820 ± 2.850 χ^2/NDF : 0.3/1

Left: -1.854 ± 2.208 χ^2/NDF : 5.8/4

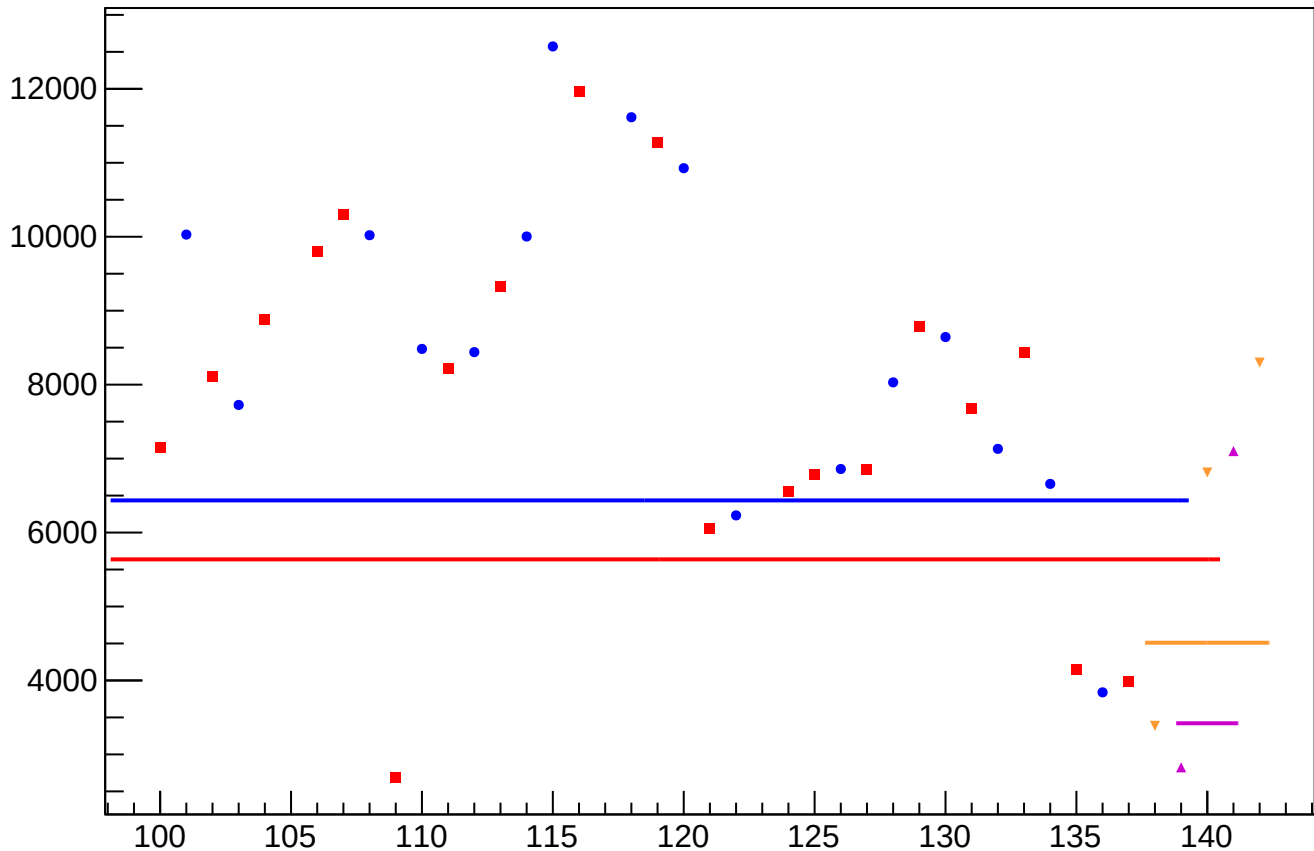
Right: -0.159 ± 1.718 χ^2/NDF : 29.4/34

In: -1.223 ± 1.907 χ^2/NDF : 8.6/17

Out: -0.365 ± 1.928 χ^2/NDF : 26.8/21

All: -0.799 ± 1.356 χ^2/NDF : 35.6/39

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6434.559+/-1.814 χ^2/NDF : 1750609.4/15

Left Out: 4510.130+/-2.468 χ^2/NDF : 517786.7/2

Right Out: 5637.344+/-1.636 χ^2/NDF : 2580013.6/18

Left In: 3421.155+/-2.016 χ^2/NDF : 539771.2/1

Left: 3856.938+/-1.561 χ^2/NDF : 1174371.7/4

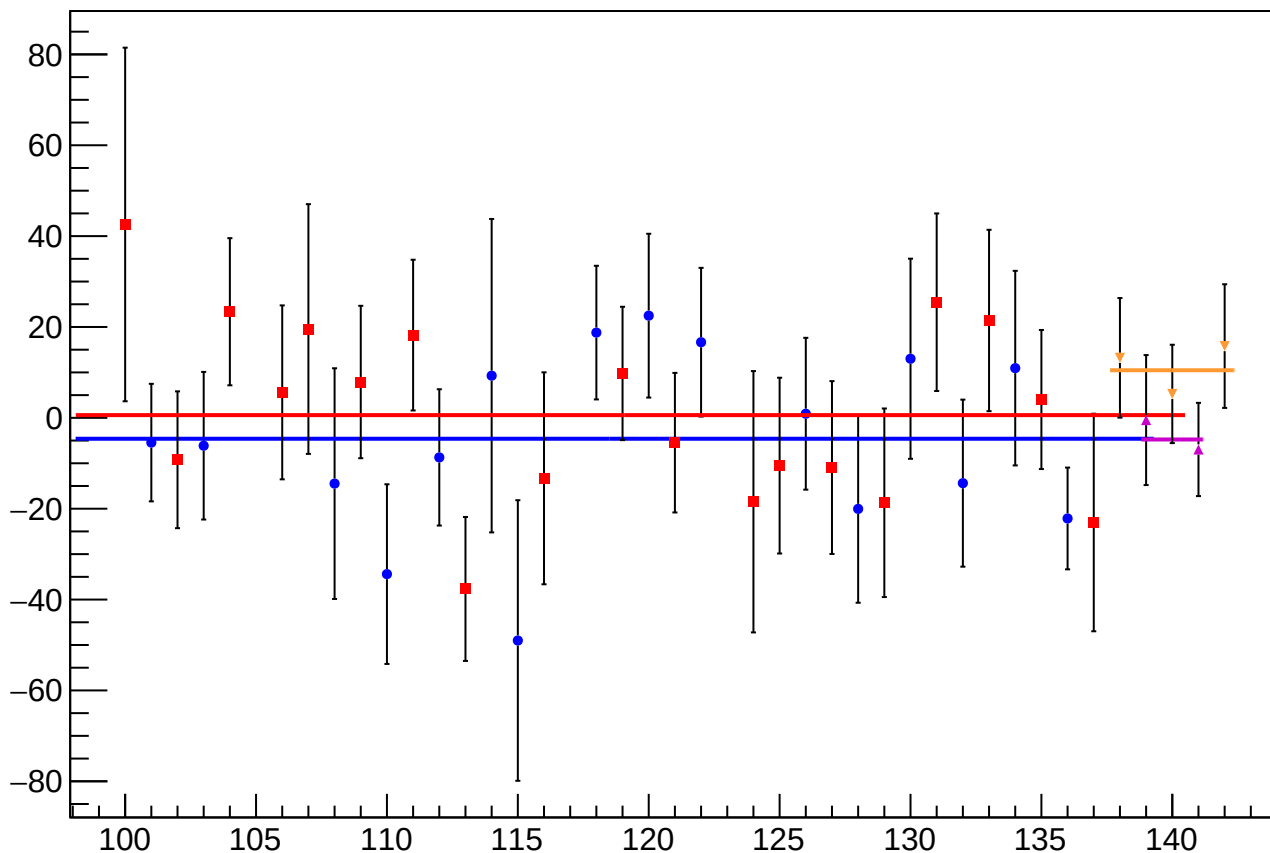
Right: 5994.862+/-1.215 χ^2/NDF : 4437091.5/34

In: 5085.627+/-1.349 χ^2/NDF : 3525018.8/17

Out: 5293.117+/-1.364 χ^2/NDF : 3242743.1/21

All: 5188.216+/-0.959 χ^2/NDF : 6779467.1/39

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.602 ± 4.355 χ^2/NDF : 15.8/15

Left Out: 10.476 ± 7.123 χ^2/NDF : 0.4/2

Right Out: 0.600 ± 4.266 χ^2/NDF : 17.9/18

Left In: -4.765 ± 8.339 χ^2/NDF : 0.1/1

Left: 4.047 ± 5.416 χ^2/NDF : 2.5/4

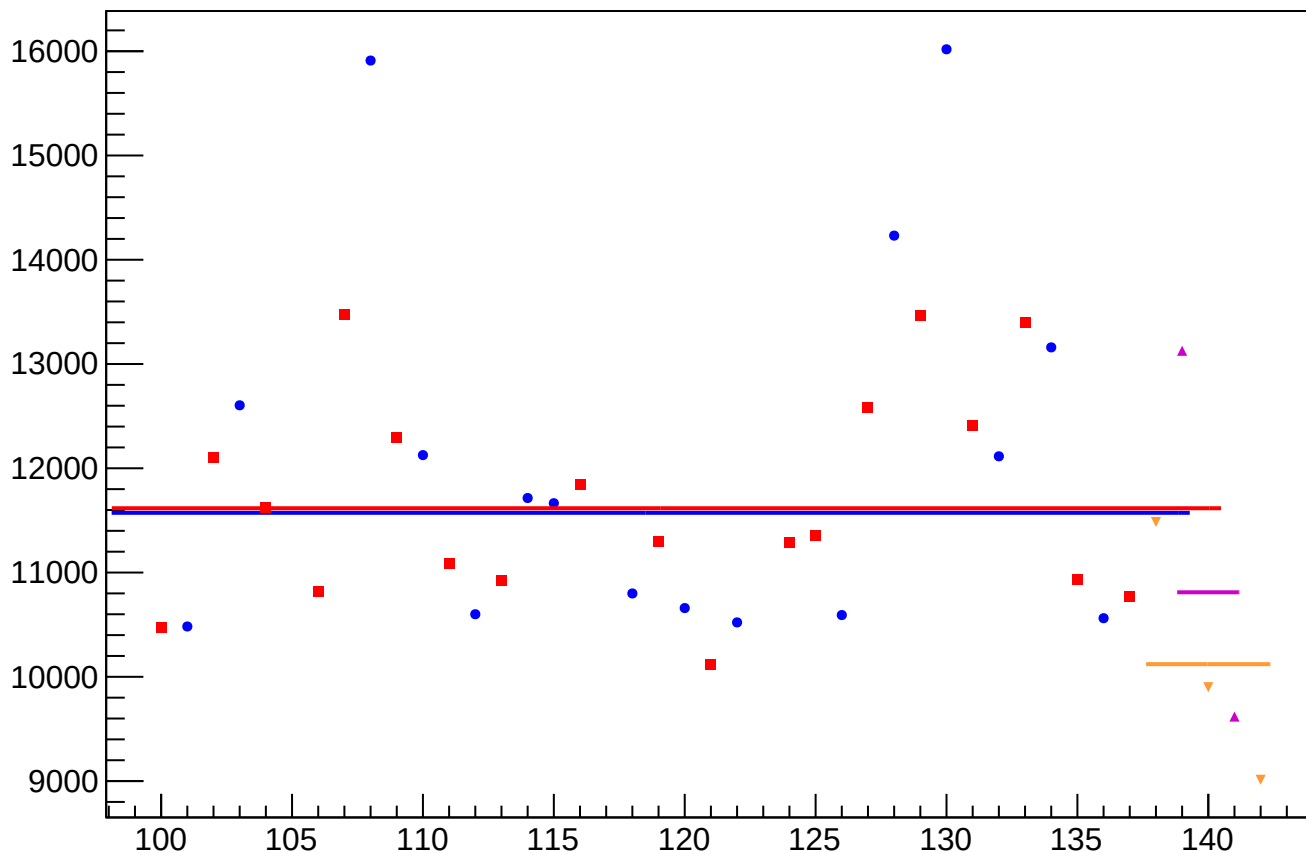
Right: -1.948 ± 3.048 χ^2/NDF : 34.4/34

In: -4.637 ± 3.860 χ^2/NDF : 15.9/17

Out: 3.207 ± 3.660 χ^2/NDF : 19.7/21

All: -0.506 ± 2.656 χ^2/NDF : 37.8/39

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11573.073+/-3.079 χ^2/NDF : 260067.0/15

Left Out: 10121.287+/-5.037 χ^2/NDF : 35598.1/2

Right Out: 11616.773+/-3.017 χ^2/NDF : 93165.6/18

Left In: 10810.717+/-5.896 χ^2/NDF : 79416.5/1

Left: 10412.127+/-3.830 χ^2/NDF : 122918.4/4

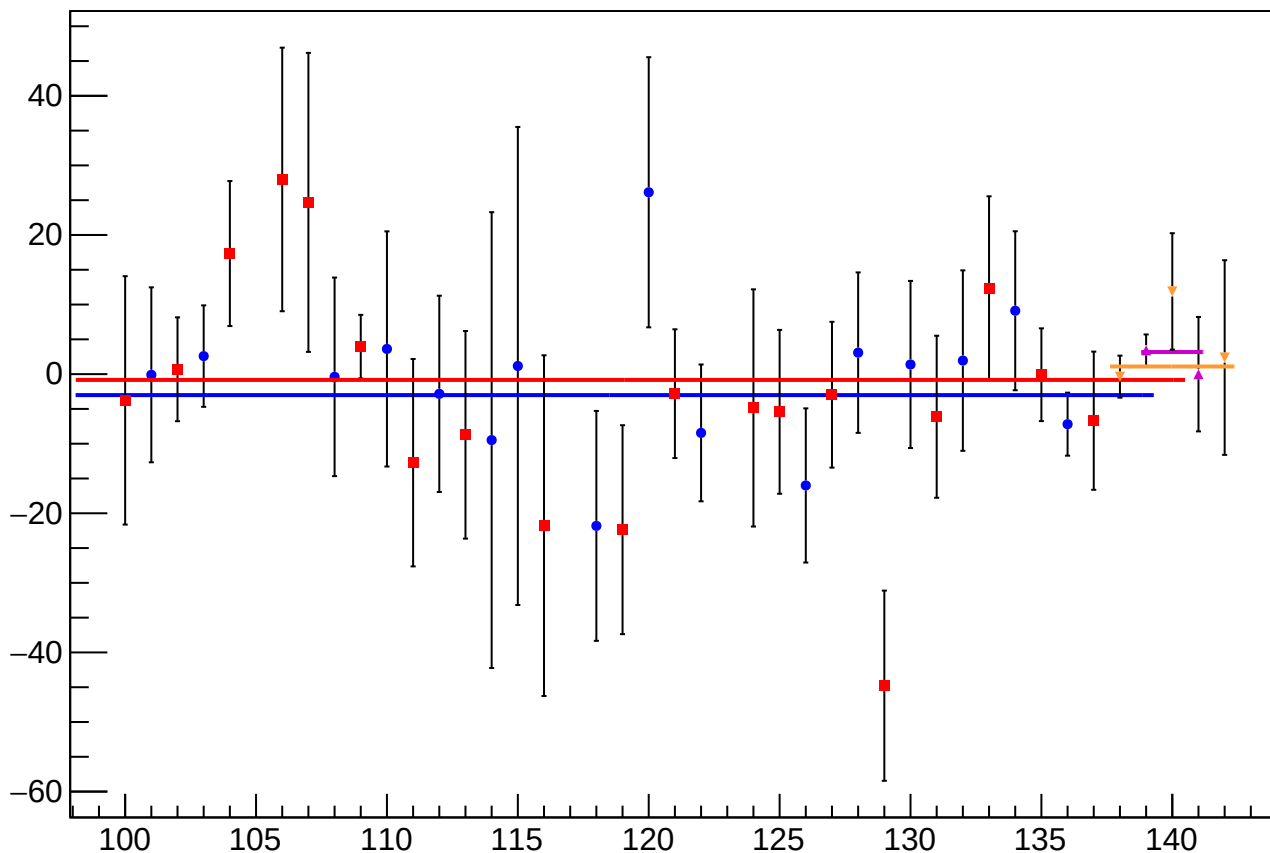
Right: 11595.370+/-2.155 χ^2/NDF : 353335.4/34

In: 11409.717+/-2.729 χ^2/NDF : 352617.7/17

Out: 11221.911+/-2.588 χ^2/NDF : 193644.3/21

All: 11310.825+/-1.878 χ^2/NDF : 548754.9/39

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -3.014 ± 2.654 χ^2/NDF : 8.7/15

Left Out: 1.101 ± 2.782 χ^2/NDF : 1.9/2

Right Out: -0.831 ± 2.352 χ^2/NDF : 23.8/18

Left In: 3.178 ± 2.197 χ^2/NDF : 0.2/1

Left: 2.380 ± 1.724 χ^2/NDF : 2.4/4

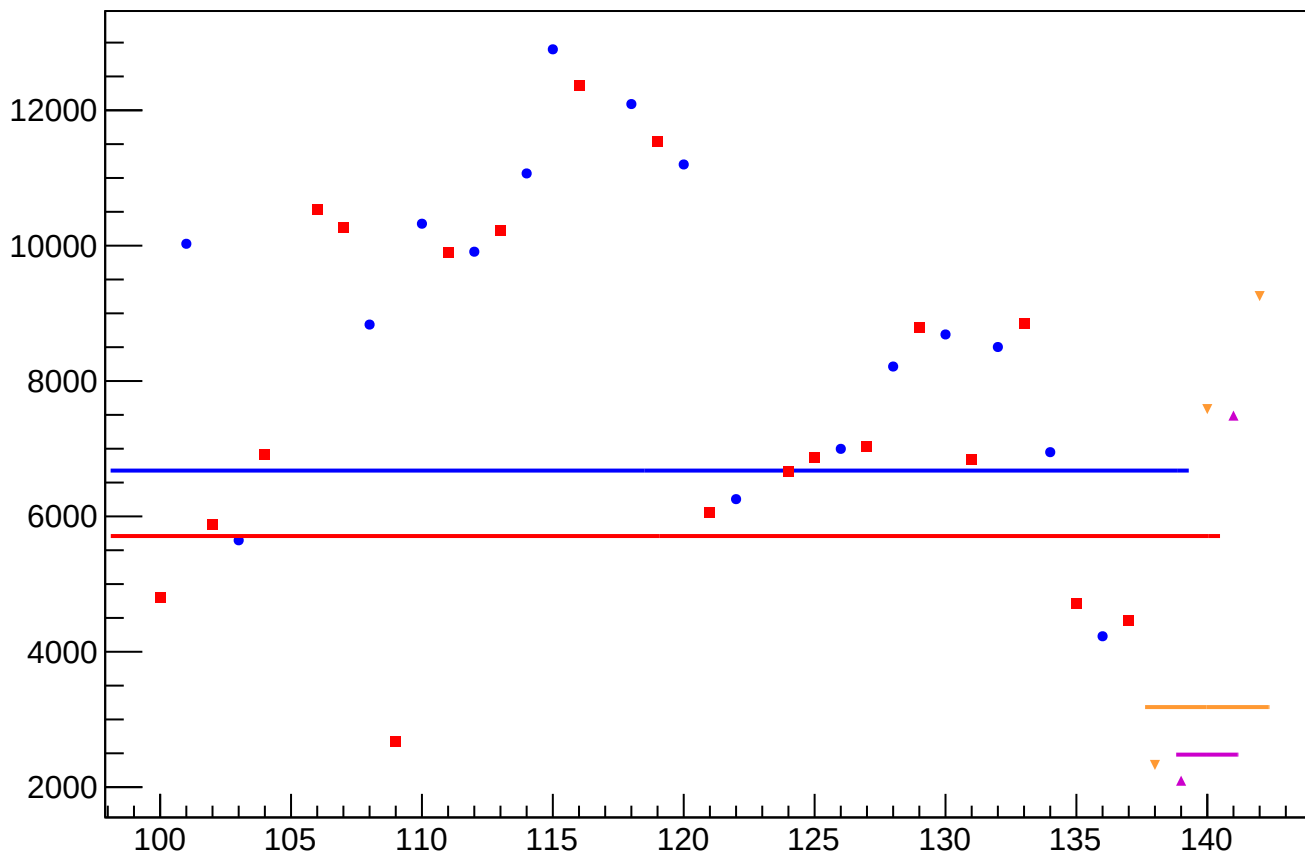
Right: -1.791 ± 1.760 χ^2/NDF : 32.9/34

In: 0.660 ± 1.692 χ^2/NDF : 12.0/17

Out: -0.026 ± 1.796 χ^2/NDF : 26.0/21

All: 0.337 ± 1.232 χ^2/NDF : 38.1/39

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6676.920+/-1.877 χ^2/NDF : 1572864.3/15

Left Out: 3182.846+/-1.967 χ^2/NDF : 1091030.5/2

Right Out: 5709.821+/-1.663 χ^2/NDF : 2301039.5/18

Left In: 2480.308+/-1.554 χ^2/NDF : 798908.6/1

Left: 2750.212+/-1.219 χ^2/NDF : 1968492.8/4

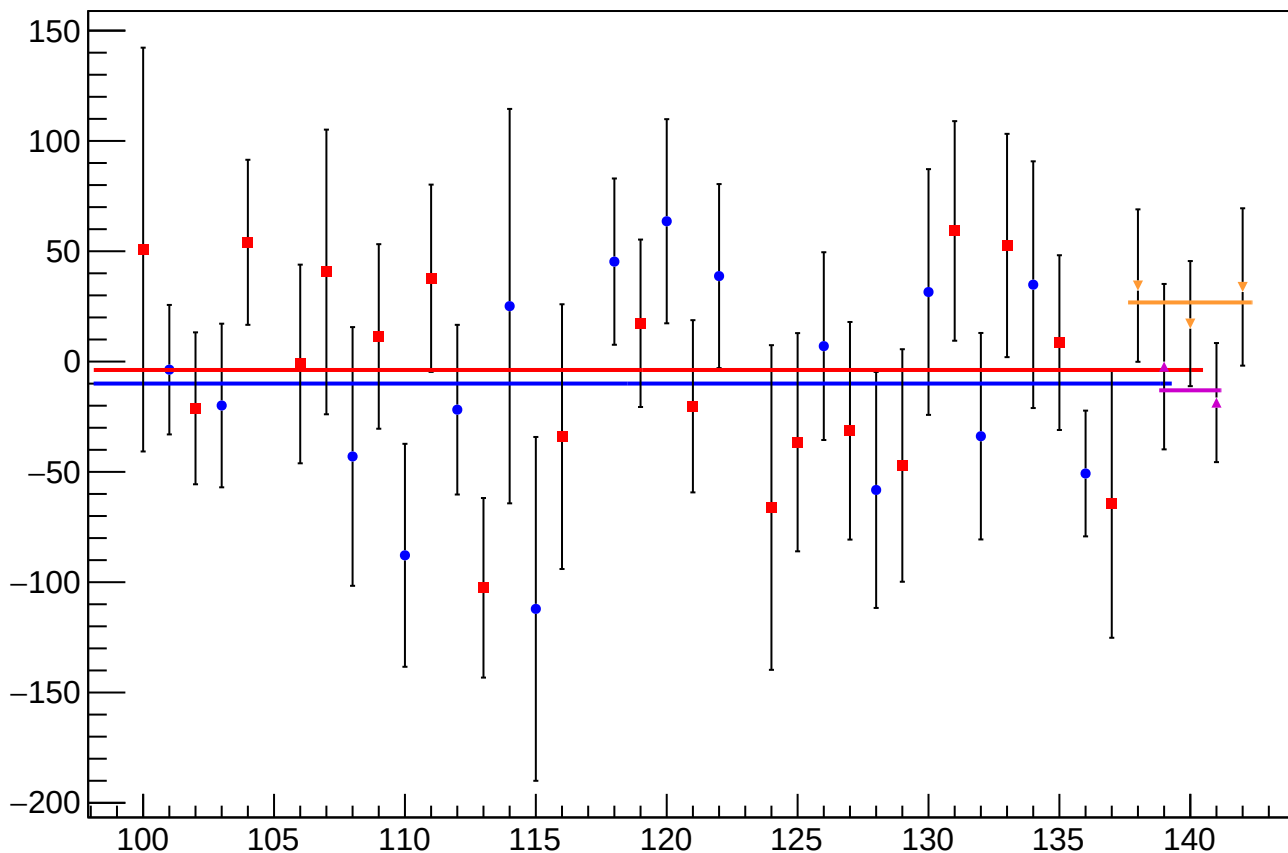
Right: 6135.167+/-1.245 χ^2/NDF : 4022672.5/34

In: 4186.955+/-1.197 χ^2/NDF : 5338866.0/17

Out: 4656.623+/-1.270 χ^2/NDF : 4354590.6/21

All: 4407.875+/-0.871 χ^2/NDF : 9765903.5/39

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -9.969 ± 10.836 χ^2/NDF : 15.3/15

Left Out: 26.795 ± 18.673 χ^2/NDF : 0.2/2

Right Out: -3.814 ± 10.636 χ^2/NDF : 17.3/18

Left In: -13.031 ± 21.903 χ^2/NDF : 0.1/1

Left: 10.032 ± 14.210 χ^2/NDF : 2.2/4

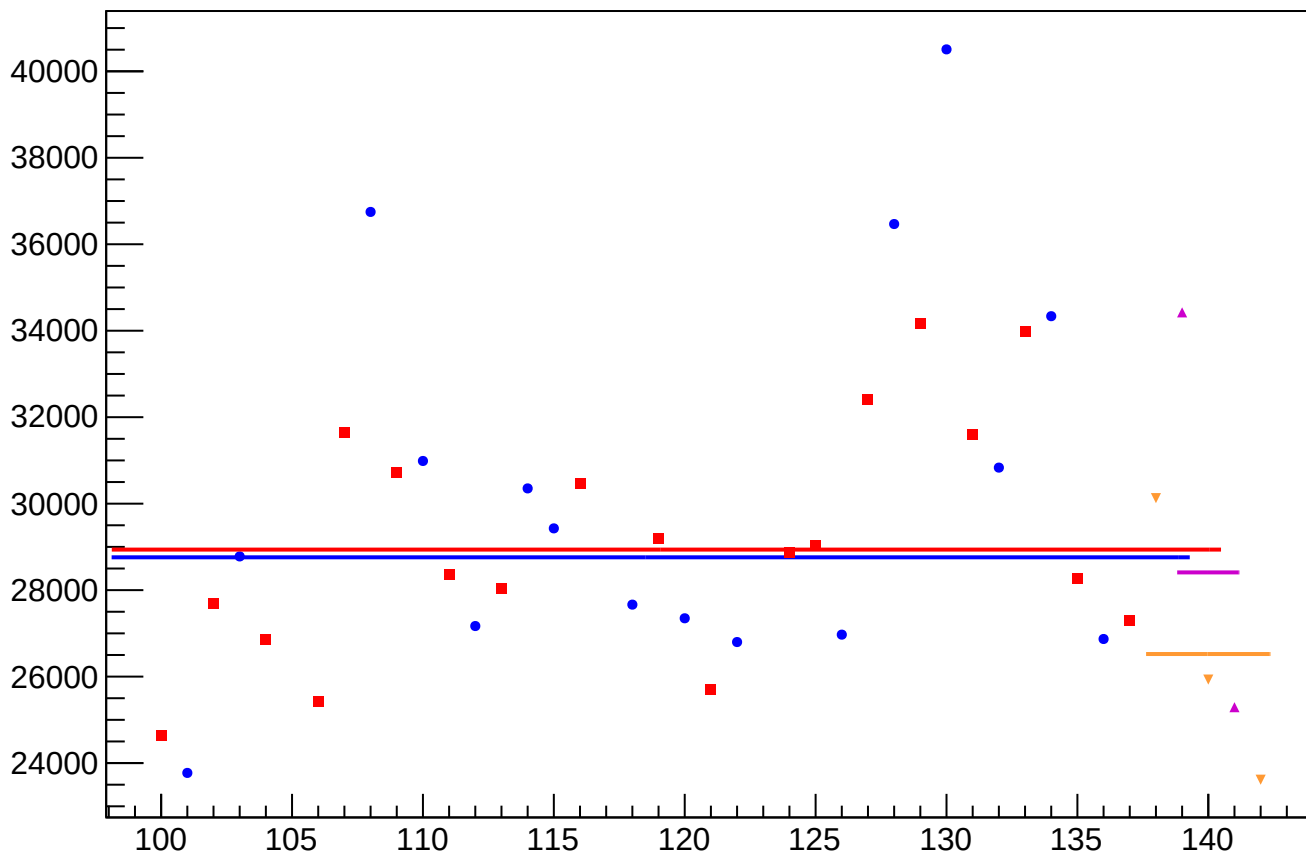
Right: -6.834 ± 7.591 χ^2/NDF : 32.8/34

In: -10.571 ± 9.713 χ^2/NDF : 15.4/17

Out: 3.685 ± 9.242 χ^2/NDF : 19.5/21

All: -3.090 ± 6.695 χ^2/NDF : 36.1/39

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28759.090+/-7.662 χ^2/NDF : 277639.9/15

Left Out: 26522.289+/-13.204 χ^2/NDF : 35943.2/2

Right Out: 28937.633+/-7.521 χ^2/NDF : 106266.0/18

Left In: 28409.950+/-15.488 χ^2/NDF : 78168.4/1

Left: 27316.787+/-10.048 χ^2/NDF : 122714.3/4

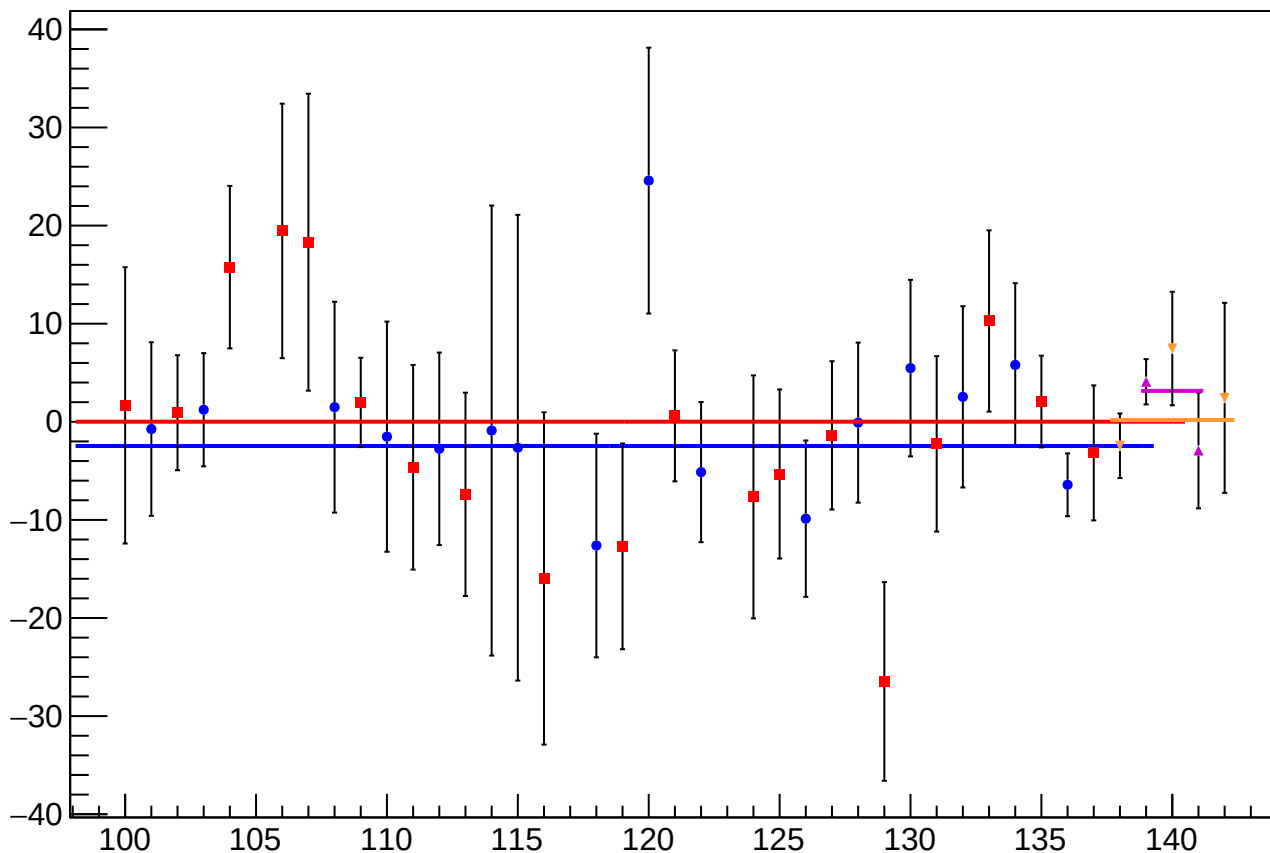
Right: 28850.024+/-5.367 χ^2/NDF : 384182.4/34

In: 28690.435+/-6.868 χ^2/NDF : 356216.5/17

Out: 28345.931+/-6.535 χ^2/NDF : 167475.2/21

All: 28509.636+/-4.734 χ^2/NDF : 525012.3/39

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -2.467 ± 1.916 χ^2/NDF : 10.0/15

Left Out: 0.181 ± 2.744 χ^2/NDF : 2.3/2

Right Out: 0.009 ± 1.828 χ^2/NDF : 20.0/18

Left In: 3.150 ± 2.150 χ^2/NDF : 1.2/1

Left: 2.021 ± 1.692 χ^2/NDF : 4.2/4

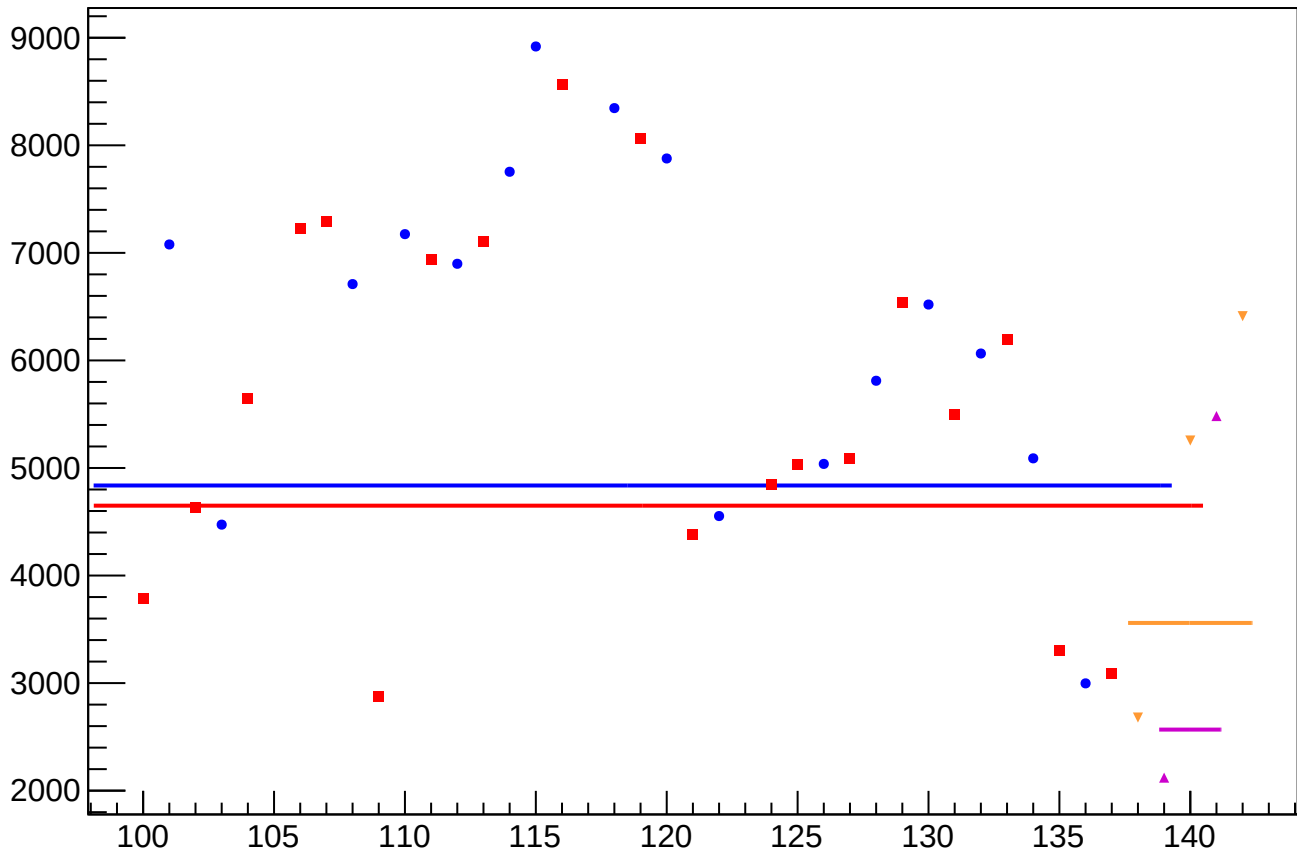
Right: -1.171 ± 1.323 χ^2/NDF : 30.9/34

In: 0.019 ± 1.430 χ^2/NDF : 15.1/17

Out: 0.062 ± 1.521 χ^2/NDF : 22.2/21

All: 0.039 ± 1.042 χ^2/NDF : 37.3/39

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4837.176+/-1.355 χ^2/NDF : 1547766.9/15

Left Out: 3559.355+/-1.940 χ^2/NDF : 488323.7/2

Right Out: 4649.613+/-1.293 χ^2/NDF : 1434548.7/18

Left In: 2567.718+/-1.520 χ^2/NDF : 563267.9/1

Left: 2944.931+/-1.197 χ^2/NDF : 1213436.7/4

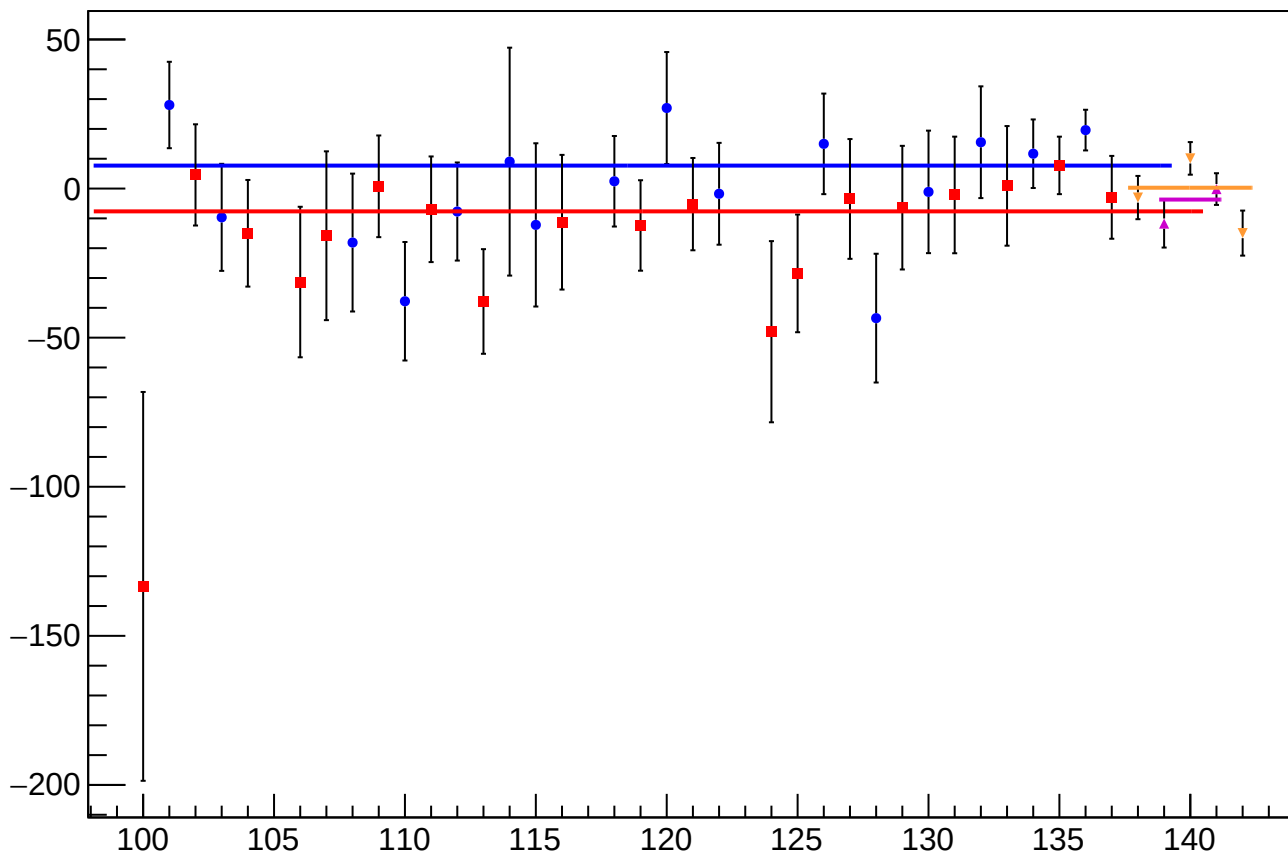
Right: 4739.013+/-0.935 χ^2/NDF : 2992350.1/34

In: 3832.827+/-1.011 χ^2/NDF : 3353288.3/17

Out: 4314.444+/-1.076 χ^2/NDF : 2141550.7/21

All: 4058.780+/-0.737 χ^2/NDF : 5601232.9/39

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 7.699 $\pm$ 3.820 χ^2/NDF : 21.6/15

Left Out: 0.277 $\pm$ 3.780 χ^2/NDF : 7.5/2

Right Out: -7.650 $\pm$ 4.099 χ^2/NDF : 14.6/18

Left In: -3.690 $\pm$ 4.433 χ^2/NDF : 1.4/1

Left: -1.393 $\pm$ 2.876 χ^2/NDF : 9.4/4

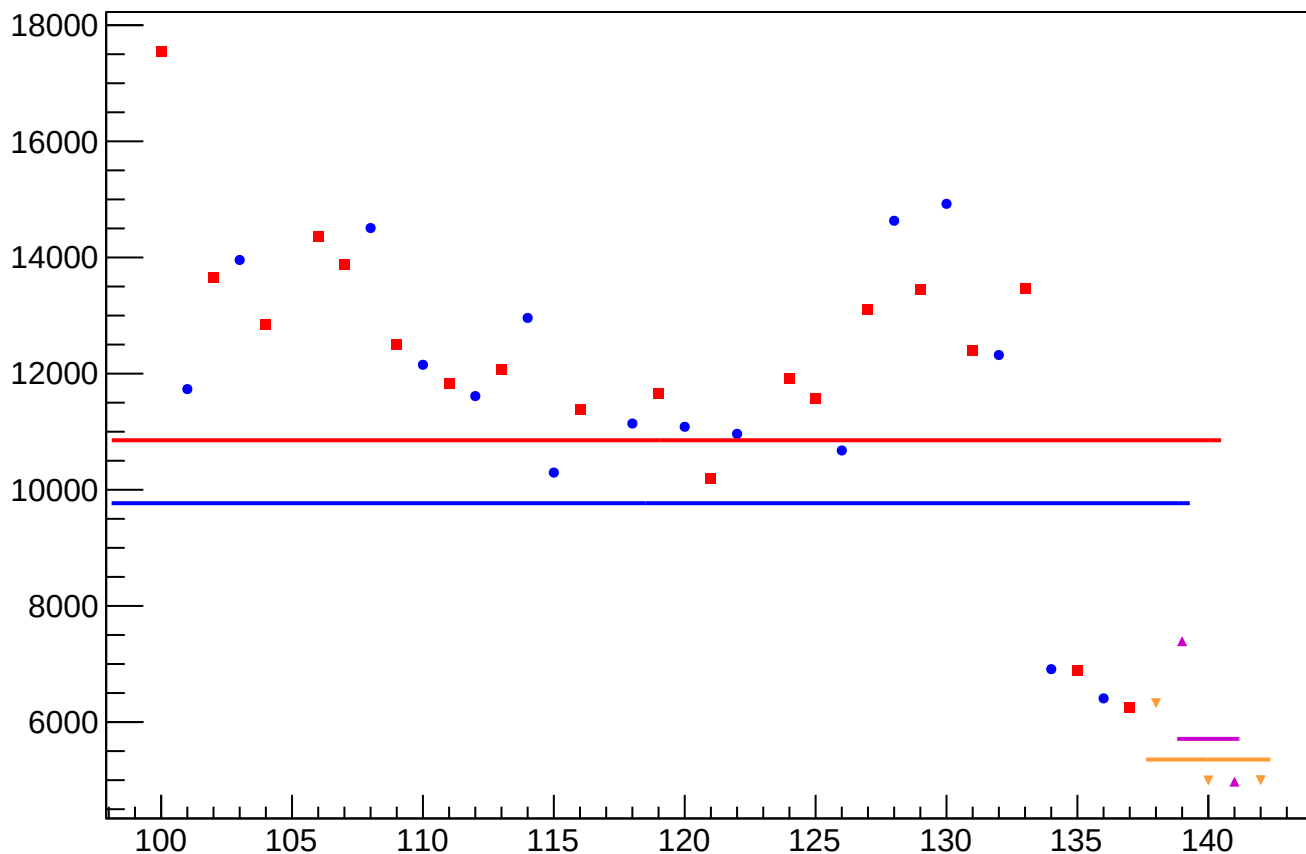
Right: 0.565 $\pm$ 2.795 χ^2/NDF : 43.7/34

In: 2.846 $\pm$ 2.894 χ^2/NDF : 26.8/17

Out: -3.365 $\pm$ 2.779 χ^2/NDF : 24.1/21

All: -0.385 $\pm$ 2.004 χ^2/NDF : 53.4/39

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 9768.772 $\pm$ 2.701 χ^2 /NDF: 1213694.6/15

Left Out: 5355.128 $\pm$ 2.673 χ^2 /NDF: 48947.1/2

Right Out: 10852.989 $\pm$ 2.899 χ^2 /NDF: 874500.2/18

Left In: 5710.827 $\pm$ 3.135 χ^2 /NDF: 125932.1/1

Left: 5504.847 $\pm$ 2.034 χ^2 /NDF: 182335.2/4

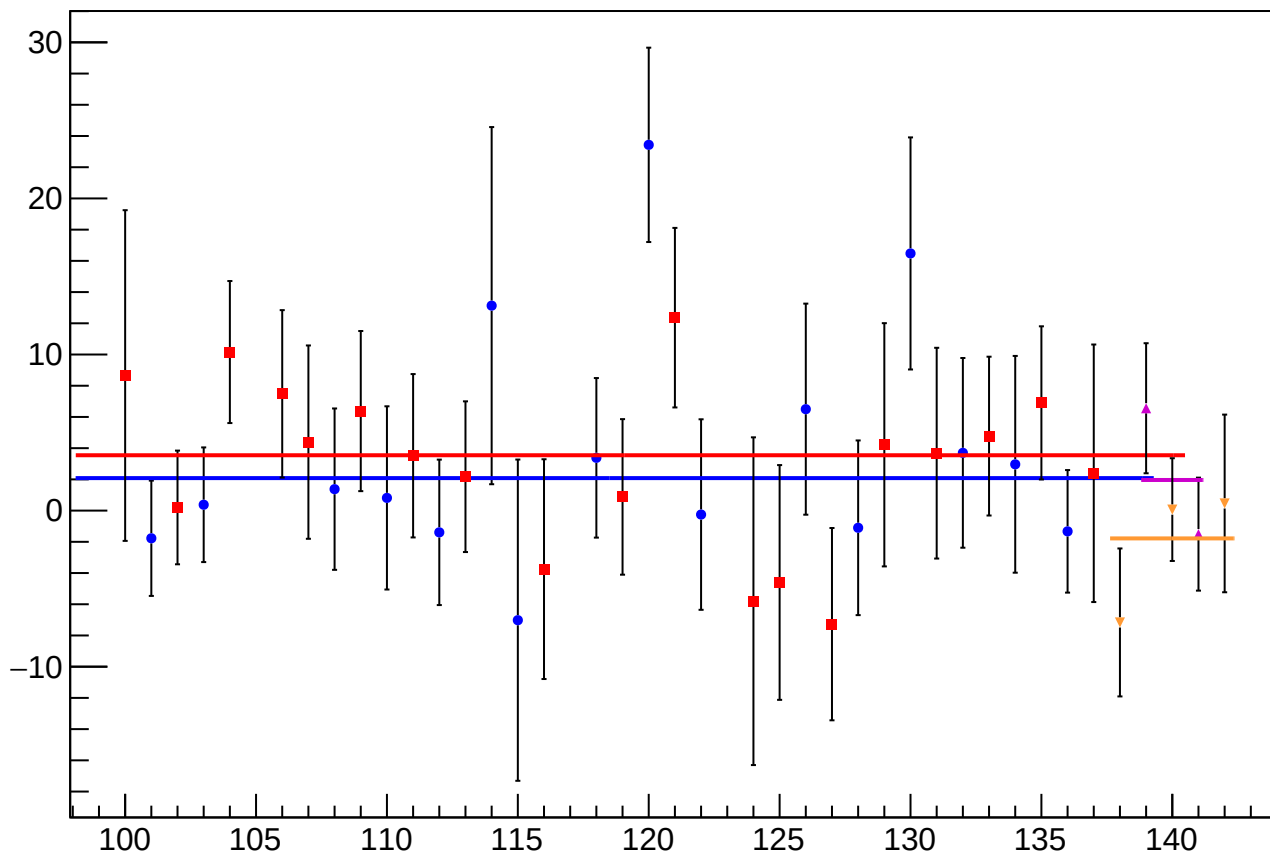
Right: 10272.667 $\pm$ 1.976 χ^2 /NDF: 2163082.8/34

In: 8039.769 $\pm$ 2.046 χ^2 /NDF: 2301365.9/17

Out: 7881.389 $\pm$ 1.965 χ^2 /NDF: 2867962.5/21

All: 7957.368 $\pm$ 1.417 χ^2 /NDF: 5172445.3/39

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 2.082 $\pm$ 1.345 χ^2 /NDF: 21.0/15

Left Out: -1.782 $\pm$ 2.442 χ^2 /NDF:1.8/2

Right Out: 3.546 $\pm$ 1.304 χ^2 /NDF: 13.4/18

Left In: 1.962 $\pm$ 2.732 χ^2 /NDF:2.1/1

Left: -0.120 $\pm$ 1.821 χ^2 /NDF: 4.9/4

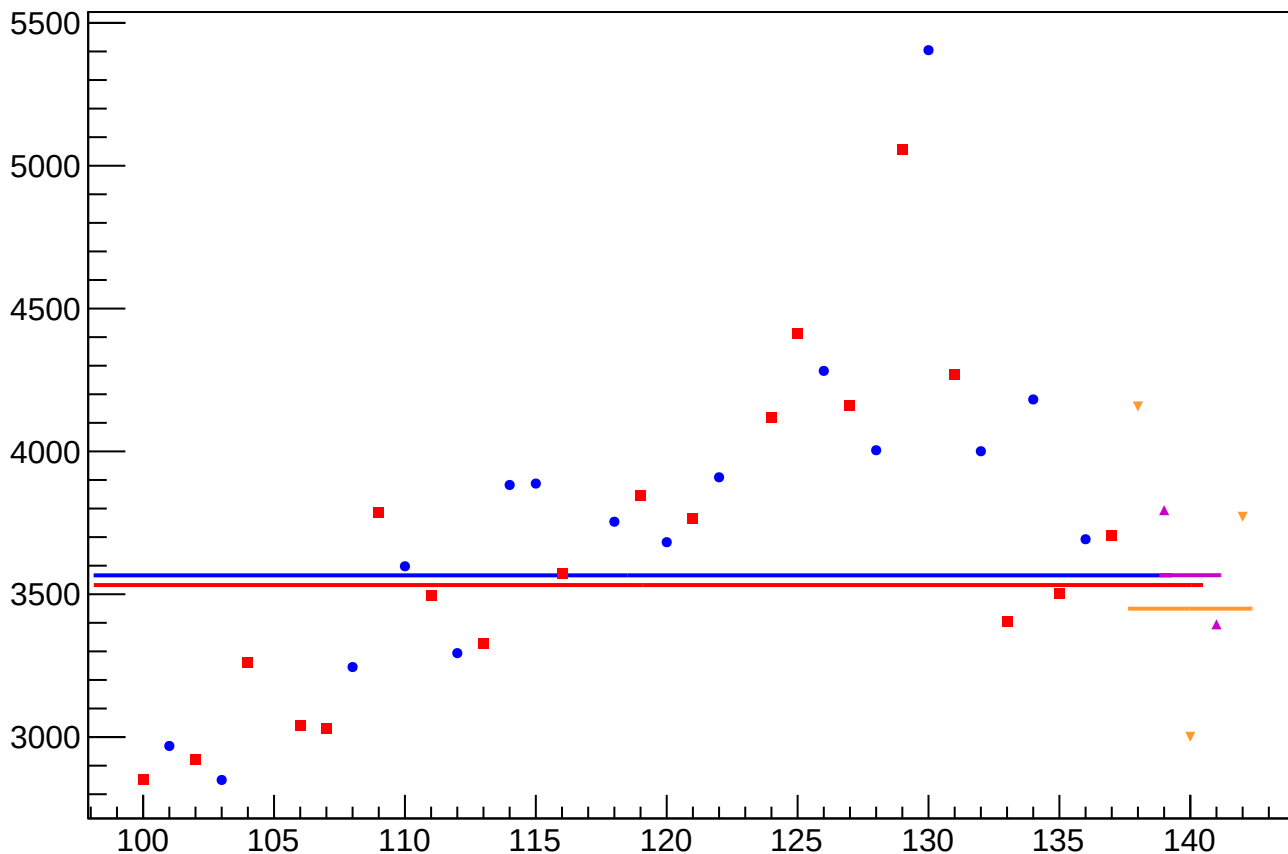
Right: 2.837 $\pm$ 0.936 χ^2 /NDF: 35.0/34

In: 2.059 $\pm$ 1.207 χ^2 /NDF:23.1/17

Out: 2.364 $\pm$ 1.150 χ^2 /NDF:18.9/21

All: 2.219 $\pm$ 0.833 χ^2 /NDF: 42.0/39

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3566.150+/-0.951 χ^2 /NDF: 341105.5/15

Left Out: 3449.520+/-1.727 χ^2 /NDF:88127.0/2

Right Out: 3532.189+/-0.922 χ^2 /NDF: 278693.0/18

Left In: 3566.654+/-1.932 χ^2 /NDF:10490.7/1

Left: 3501.528+/-1.287 χ^2 /NDF: 100661.3/4

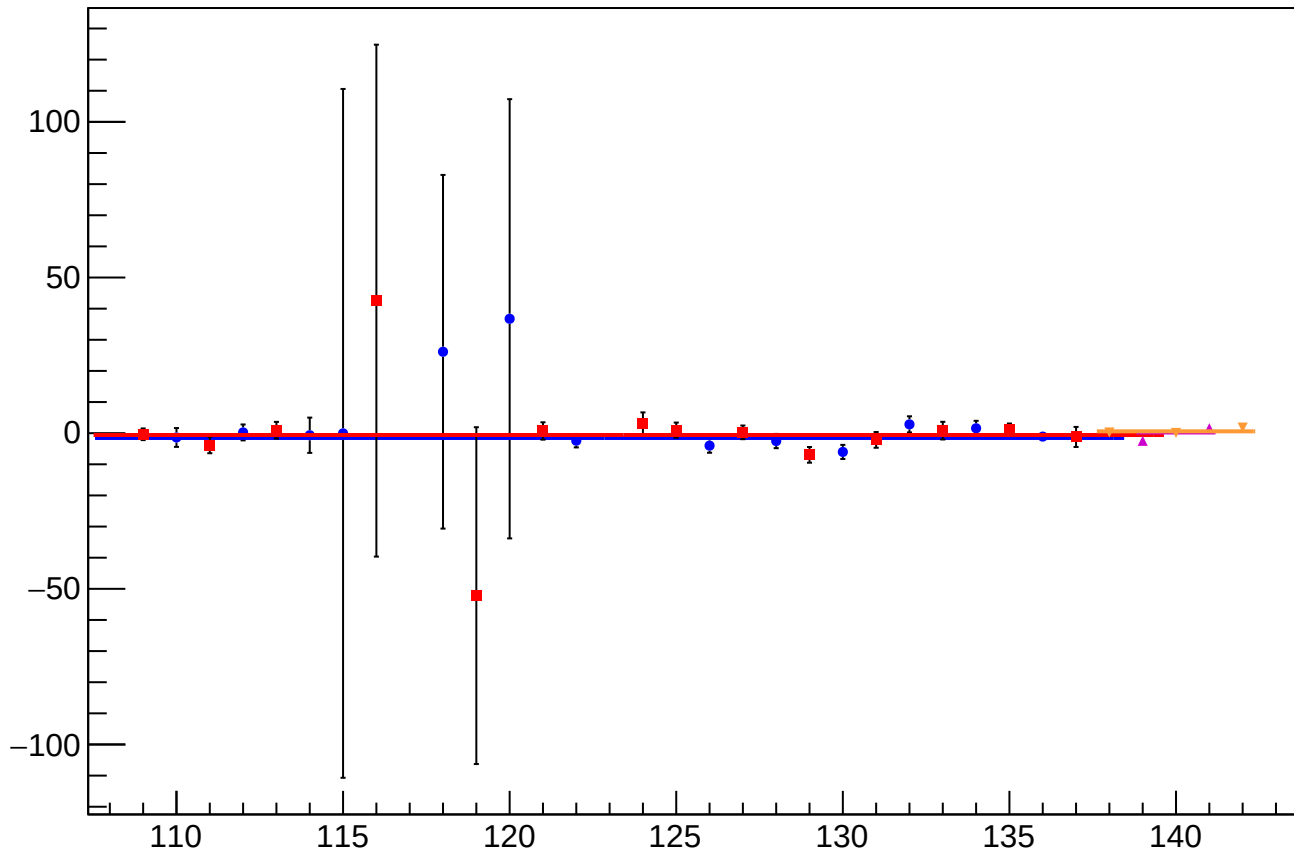
Right: 3548.642+/-0.662 χ^2 /NDF: 620455.5/34

In: 3566.248+/-0.853 χ^2 /NDF:351596.3/17

Out: 3513.840+/-0.813 χ^2 /NDF:368603.7/21

All: 3538.787+/-0.589 χ^2 /NDF: 722175.9/39

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.536 ± 0.733 χ^2/NDF : 11.1/12

Left Out: 0.592 ± 0.716 χ^2/NDF : 1.1/2

Right Out: -0.588 ± 0.717 χ^2/NDF : 12.7/13

Left In: 0.222 ± 0.777 χ^2/NDF : 6.1/1

Left: 0.422 ± 0.526 χ^2/NDF : 7.3/4

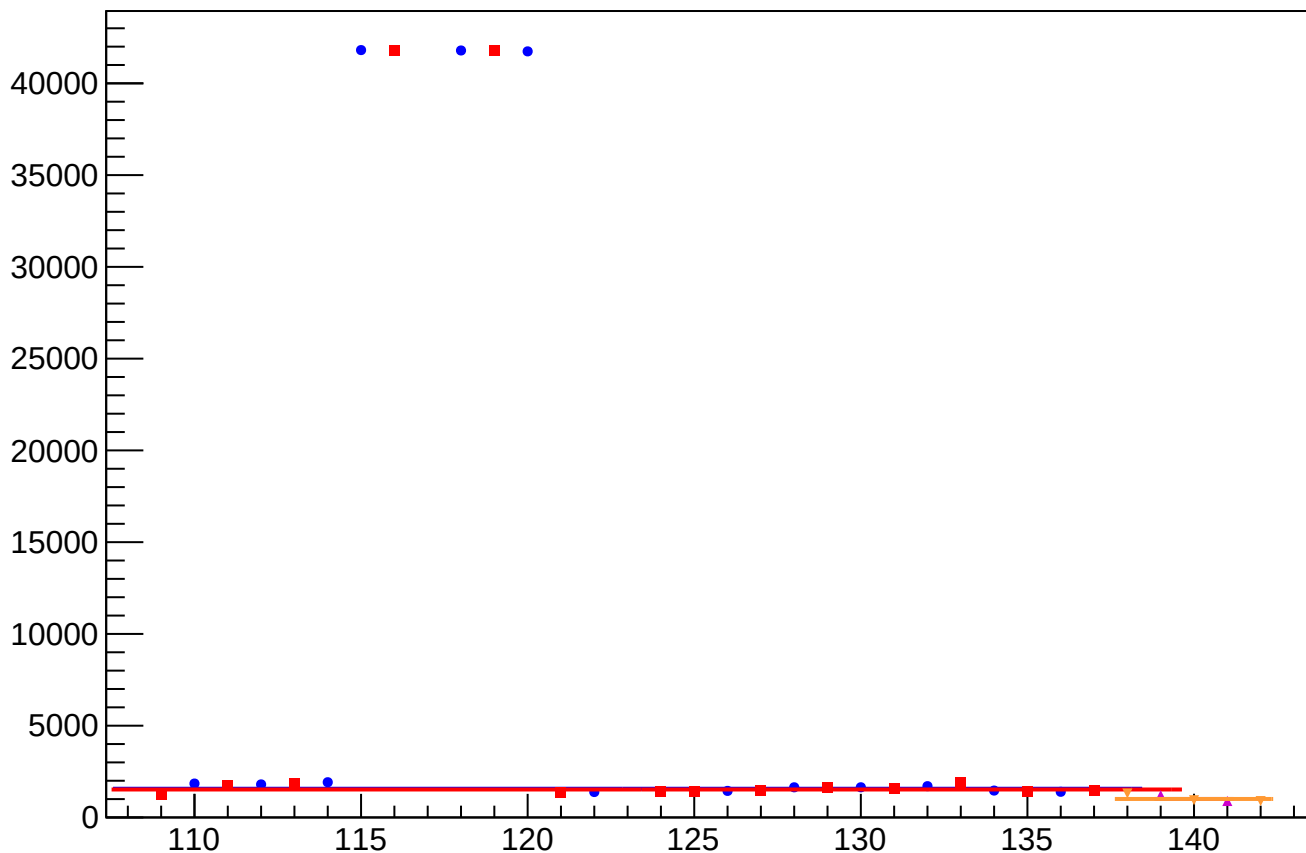
Right: -1.051 ± 0.512 χ^2/NDF : 24.6/26

In: -0.708 ± 0.533 χ^2/NDF : 19.9/14

Out: 0.004 ± 0.507 χ^2/NDF : 15.2/16

All: -0.334 ± 0.367 χ^2/NDF : 36.0/31

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1564.307+/-0.518 χ^2/NDF : 2016990.6/12

Left Out: 1007.685+/-0.506 χ^2/NDF : 103062.4/2

Right Out: 1523.678+/-0.507 χ^2/NDF : 1739658.0/13

Left In: 1006.900+/-0.549 χ^2/NDF : 75691.1/1

Left: 1007.325+/-0.372 χ^2/NDF : 178754.5/4

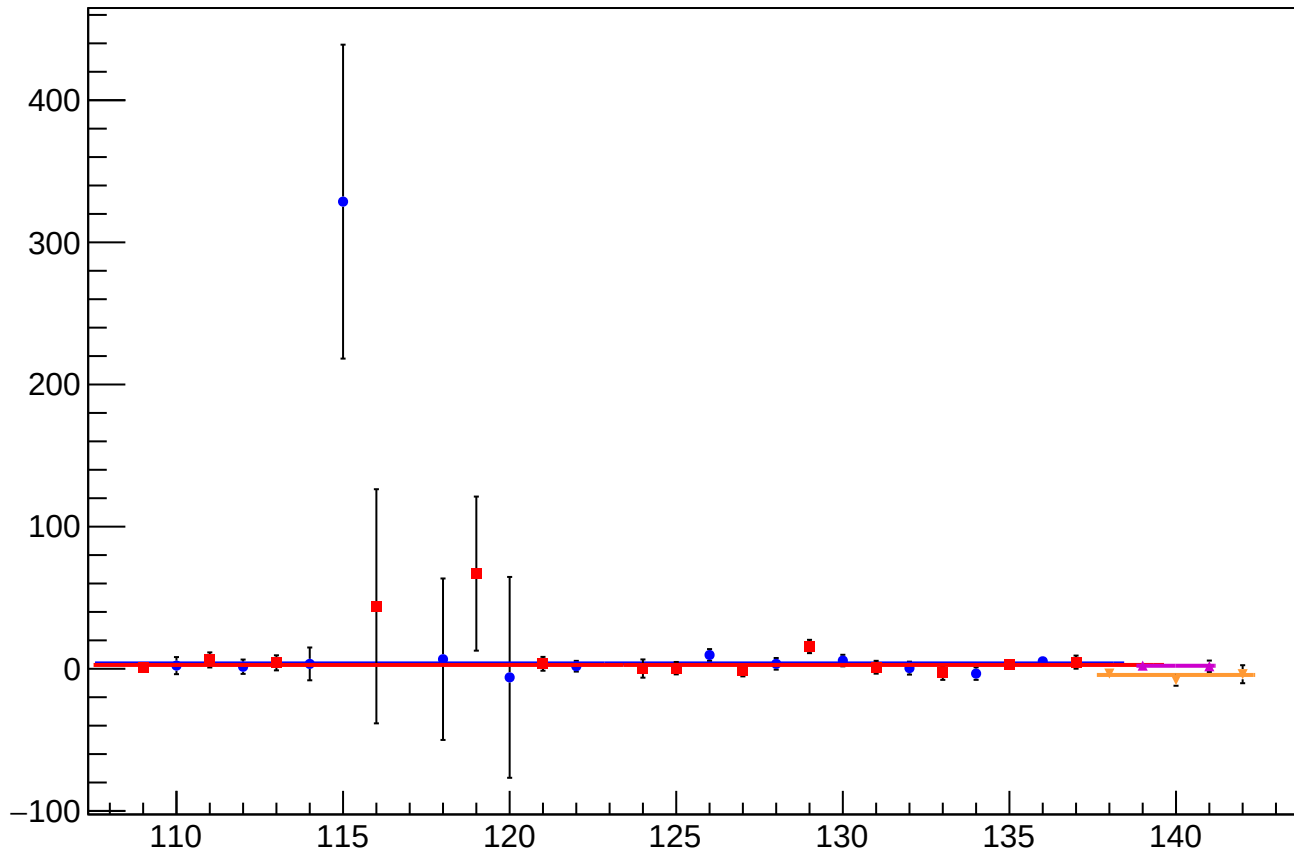
Right: 1543.555+/-0.362 χ^2/NDF : 3759789.5/26

In: 1301.872+/-0.377 χ^2/NDF : 2637629.7/14

Out: 1265.123+/-0.358 χ^2/NDF : 2361605.6/16

All: 1282.562+/-0.260 χ^2/NDF : 5004230.9/31

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.777 $\pm$ 1.248 χ^2 /NDF: 15.2/12

Left Out: -4.330 $\pm$ 1.778 χ^2 /NDF: 1.1/2

Right Out: 2.709 $\pm$ 1.211 χ^2 /NDF: 13.6/13

Left In: 2.132 $\pm$ 1.869 χ^2 /NDF: 0.0/1

Left: -1.261 $\pm$ 1.288 χ^2 /NDF: 7.3/4

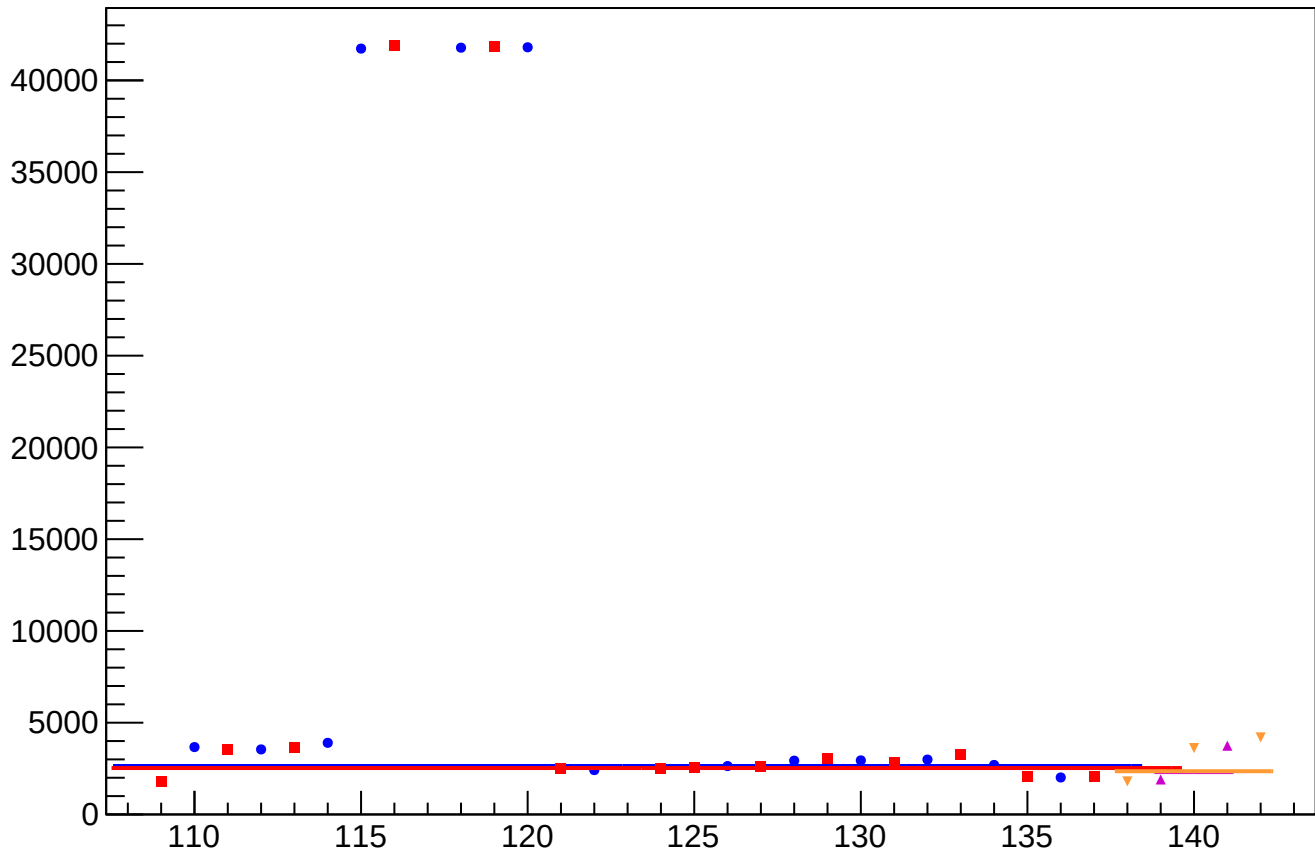
Right: 3.227 $\pm$ 0.869 χ^2 /NDF: 29.2/26

In: 3.269 $\pm$ 1.038 χ^2 /NDF: 15.7/14

Out: 0.478 $\pm$ 1.001 χ^2 /NDF: 25.4/16

All: 1.823 $\pm$ 0.721 χ^2 /NDF: 44.8/31

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2639.943 $\pm$ 0.883 χ^2/NDF : 2173395.1/12

Left Out: 2355.703 $\pm$ 1.257 χ^2/NDF : 512482.4/2

Right Out: 2529.018 $\pm$ 0.856 χ^2/NDF : 1949928.1/13

Left In: 2309.277 $\pm$ 1.322 χ^2/NDF : 330119.6/1

Left: 2333.652 $\pm$ 0.911 χ^2/NDF : 843249.8/4

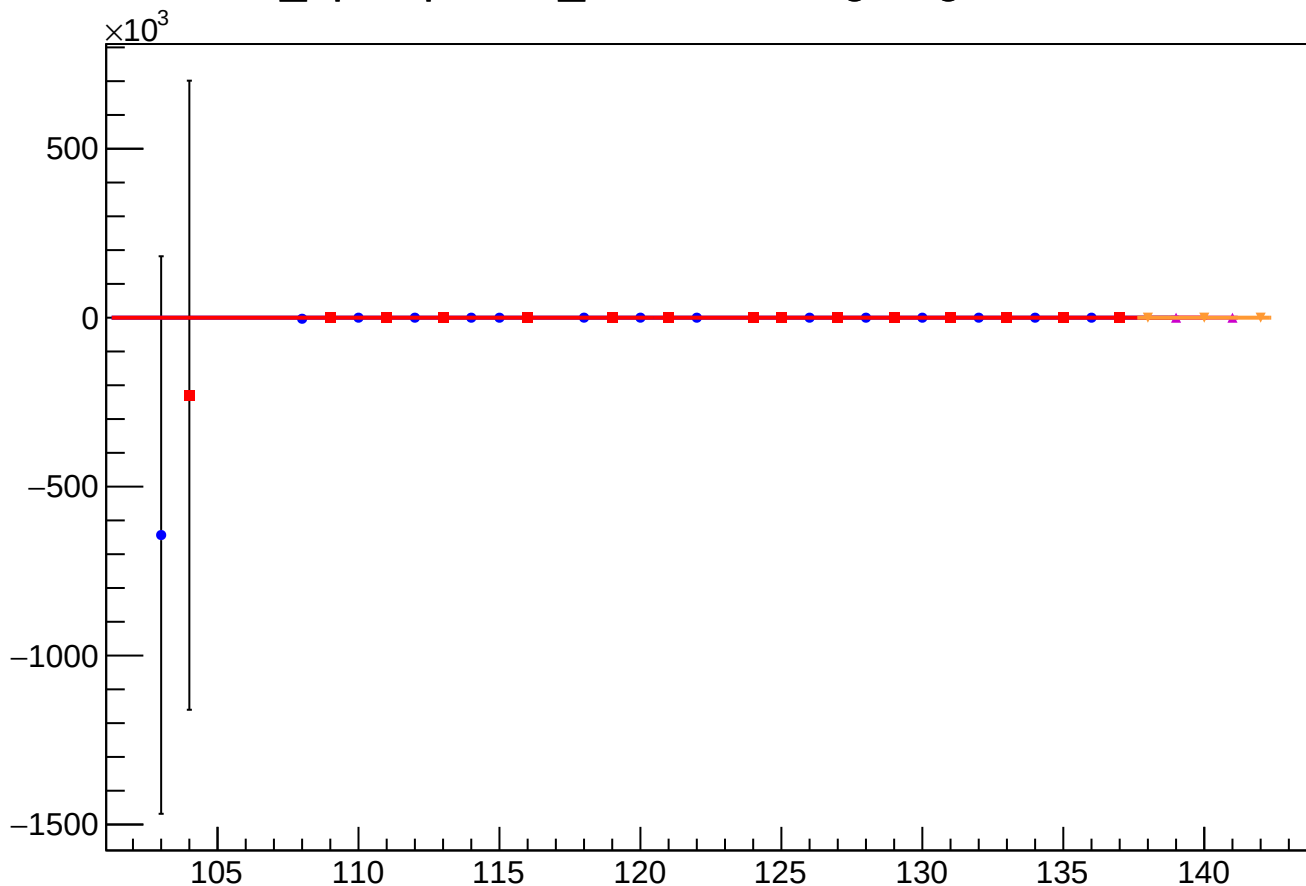
Right: 2582.794 $\pm$ 0.615 χ^2/NDF : 4131459.2/26

In: 2537.952 $\pm$ 0.734 χ^2/NDF : 2546798.4/14

Out: 2474.096 $\pm$ 0.708 χ^2/NDF : 2475393.9/16

All: 2504.856 $\pm$ 0.509 χ^2/NDF : 5026114.3/31

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -1.215 $\pm$ 1.125 χ^2 /NDF: 18.8/14

Left Out: -0.018 $\pm$ 1.025 χ^2 /NDF: 5.0/2

Right Out: 2.670 $\pm$ 1.211 χ^2 /NDF: 14.4/14

Left In: 1.242 $\pm$ 1.173 χ^2 /NDF: 0.2/1

Left: 0.527 $\pm$ 0.772 χ^2 /NDF: 5.9/4

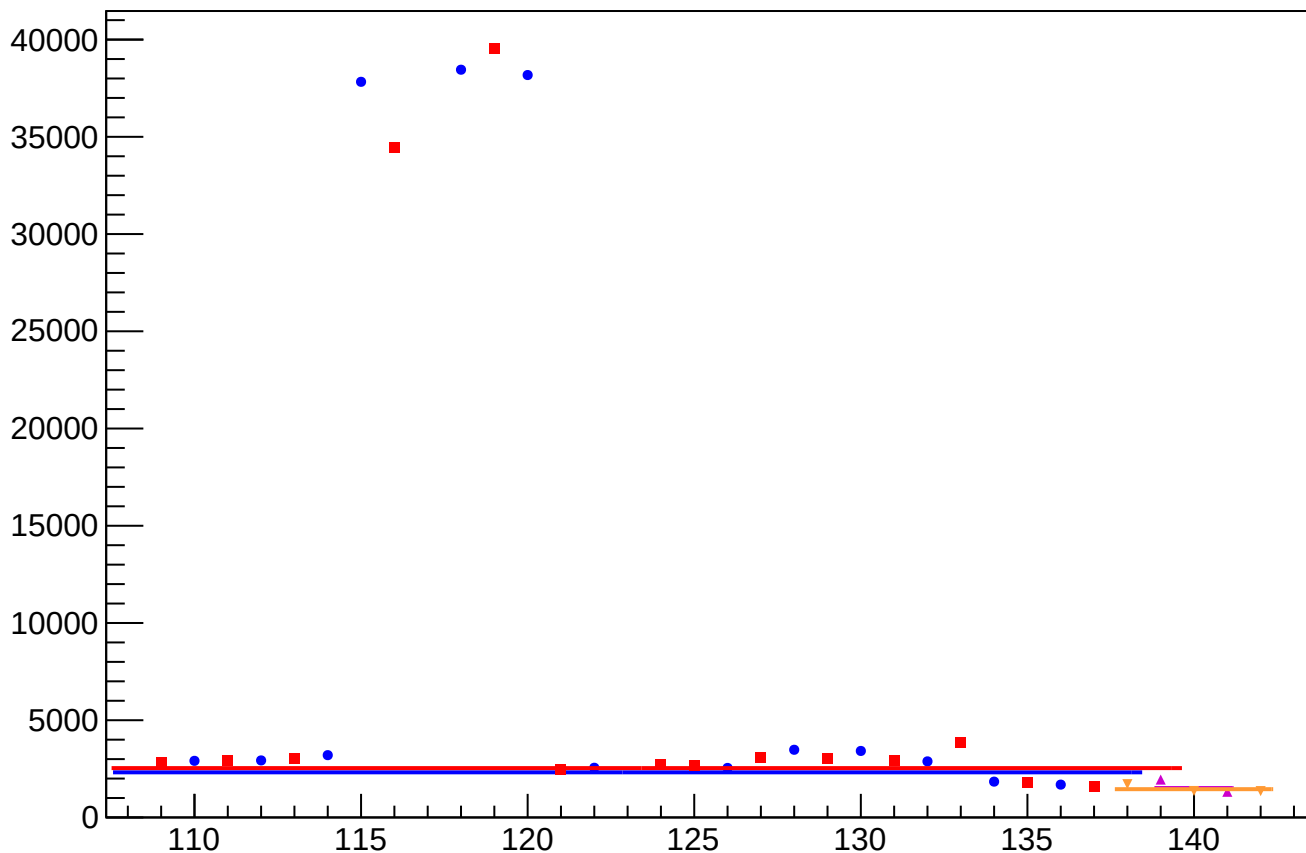
Right: 0.585 $\pm$ 0.824 χ^2 /NDF: 38.7/29

In: -0.038 $\pm$ 0.812 χ^2 /NDF: 21.2/16

Out: 1.103 $\pm$ 0.782 χ^2 /NDF: 22.4/17

All: 0.554 $\pm$ 0.563 χ^2 /NDF: 44.6/34

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2320.446 $\pm$ 0.796 χ^2/NDF : 2461445.1/12

Left Out: 1454.208 $\pm$ 0.724 χ^2/NDF : 47169.8/2

Right Out: 2537.615 $\pm$ 0.856 χ^2/NDF : 2038153.2/13

Left In: 1513.728 $\pm$ 0.830 χ^2/NDF : 121378.6/1

Left: 1479.958 $\pm$ 0.546 χ^2/NDF : 171468.7/4

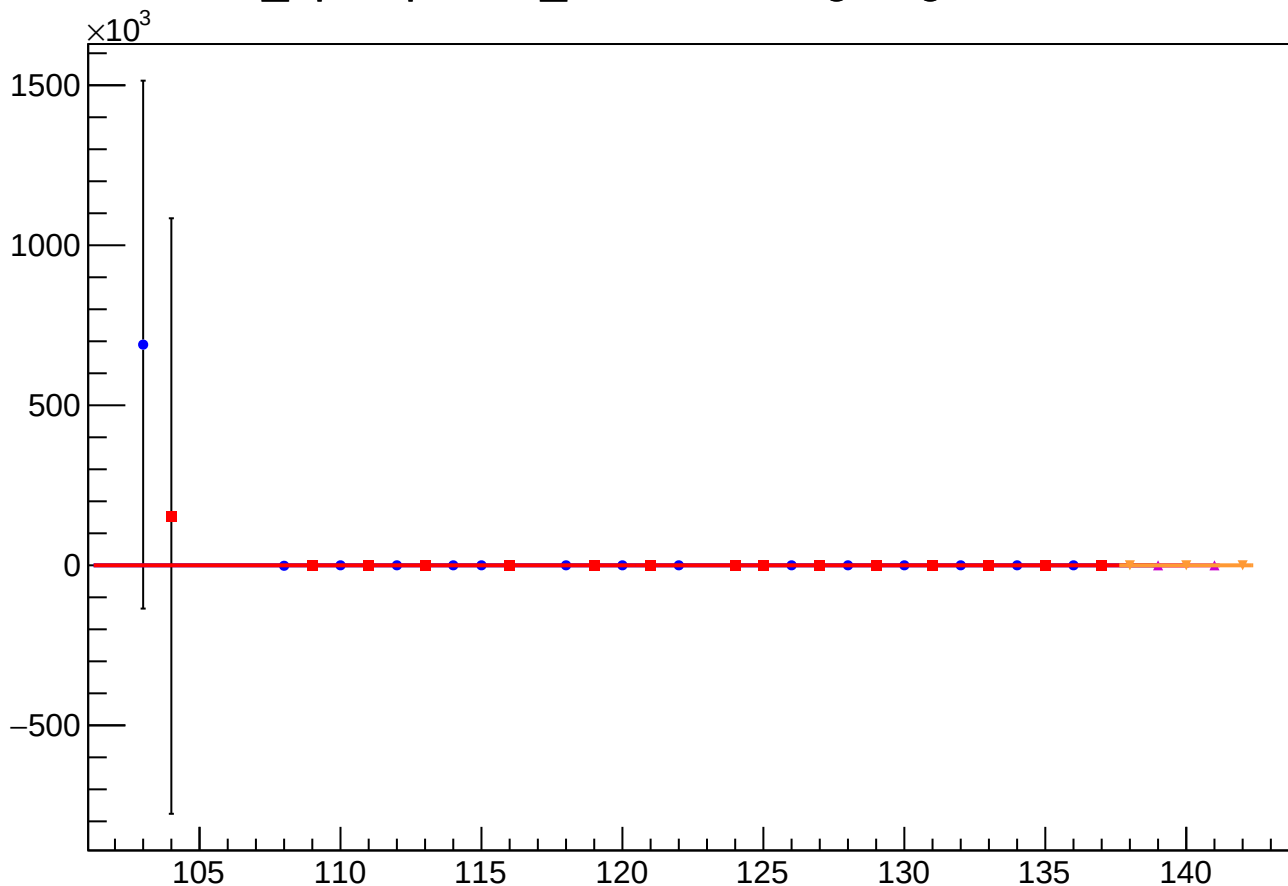
Right: 2421.061 $\pm$ 0.583 χ^2/NDF : 4534110.8/26

In: 1933.926 $\pm$ 0.574 χ^2/NDF : 3075325.8/14

Out: 1906.101 $\pm$ 0.553 χ^2/NDF : 3018197.4/16

All: 1919.491 $\pm$ 0.398 χ^2/NDF : 6094741.2/31

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.708 $\pm$ 1.076 χ^2 /NDF: 5.0/14

Left Out: -3.246 $\pm$ 1.290 χ^2 /NDF: 0.6/2

Right Out: 1.893 $\pm$ 1.052 χ^2 /NDF: 15.3/14

Left In: -0.191 $\pm$ 1.085 χ^2 /NDF: 0.6/1

Left: -1.457 $\pm$ 0.831 χ^2 /NDF: 4.4/4

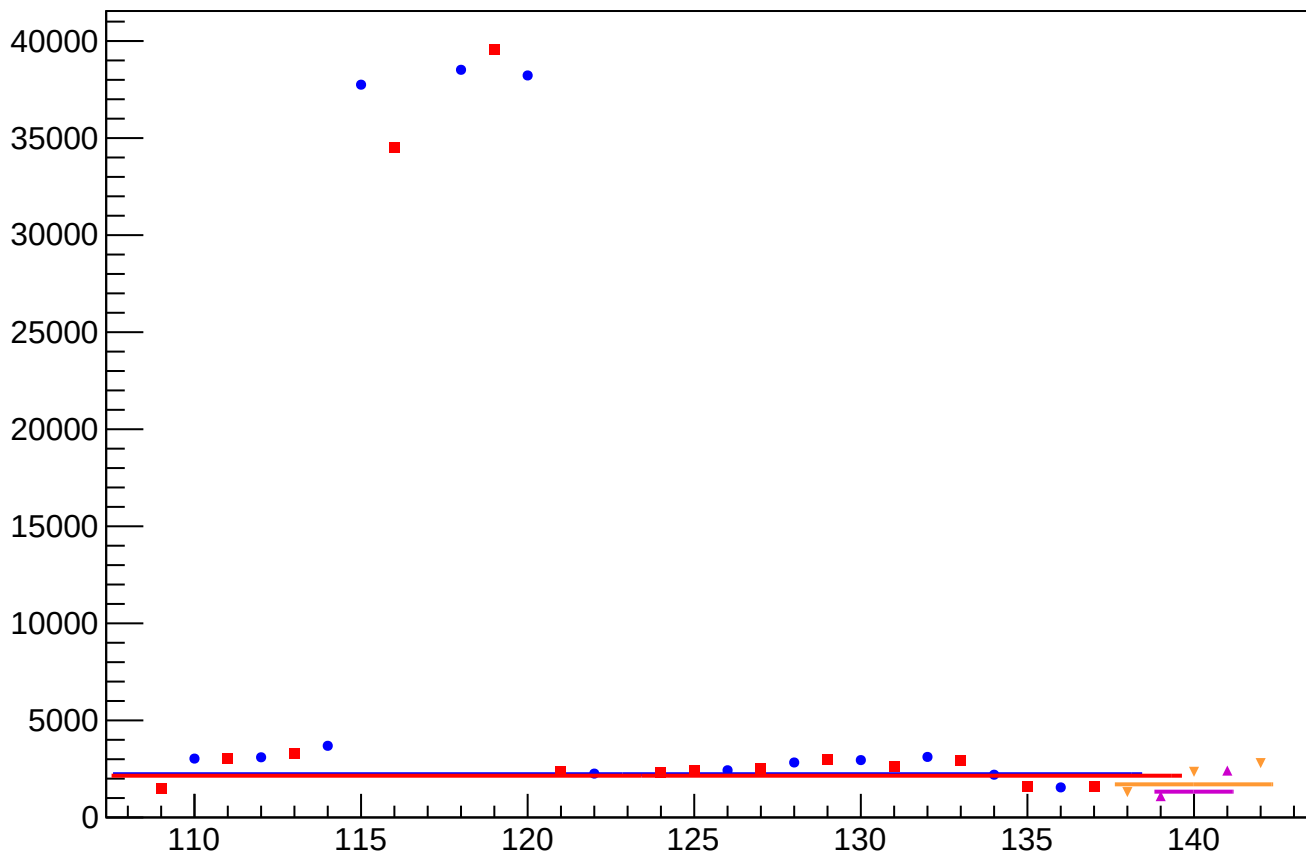
Right: 1.803 $\pm$ 0.752 χ^2 /NDF: 20.3/29

In: 0.766 $\pm$ 0.764 χ^2 /NDF: 7.1/16

Out: -0.158 $\pm$ 0.815 χ^2 /NDF: 25.4/17

All: 0.334 $\pm$ 0.558 χ^2 /NDF: 33.2/34

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2226.944+/-0.761 χ^2/NDF : 2522286.5/12

Left Out: 1705.995+/-0.913 χ^2/NDF : 384971.5/2

Right Out: 2150.841+/-0.744 χ^2/NDF : 2231322.0/13

Left In: 1328.451+/-0.767 χ^2/NDF : 423605.0/1

Left: 1484.858+/-0.587 χ^2/NDF : 908841.5/4

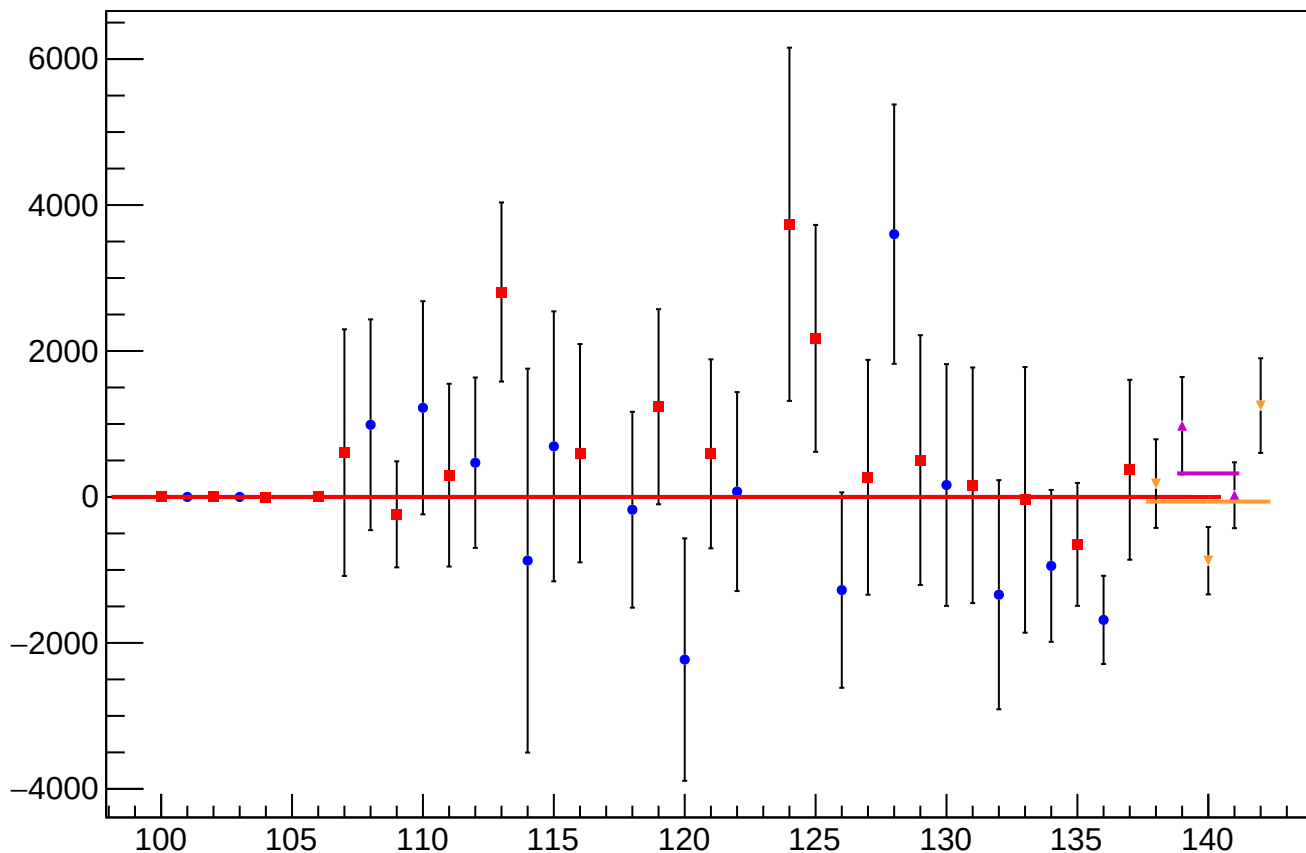
Right: 2188.011+/-0.532 χ^2/NDF : 4758723.2/26

In: 1781.407+/-0.540 χ^2/NDF : 3636918.7/14

Out: 1973.299+/-0.576 χ^2/NDF : 2759094.8/16

All: 1871.161+/-0.394 χ^2/NDF : 6454988.6/31

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.255 ± 0.356 $\chi^2/\text{NDF}: 17.7/15$

Left Out: -63.837 ± 319.773 $\chi^2/\text{NDF}: 7.4/2$

Right Out: -0.096 ± 0.328 $\chi^2/\text{NDF}: 15.4/18$

Left In: 322.627 ± 373.752 $\chi^2/\text{NDF}: 1.4/1$

Left: 99.497 ± 242.978 $\chi^2/\text{NDF}: 9.4/4$

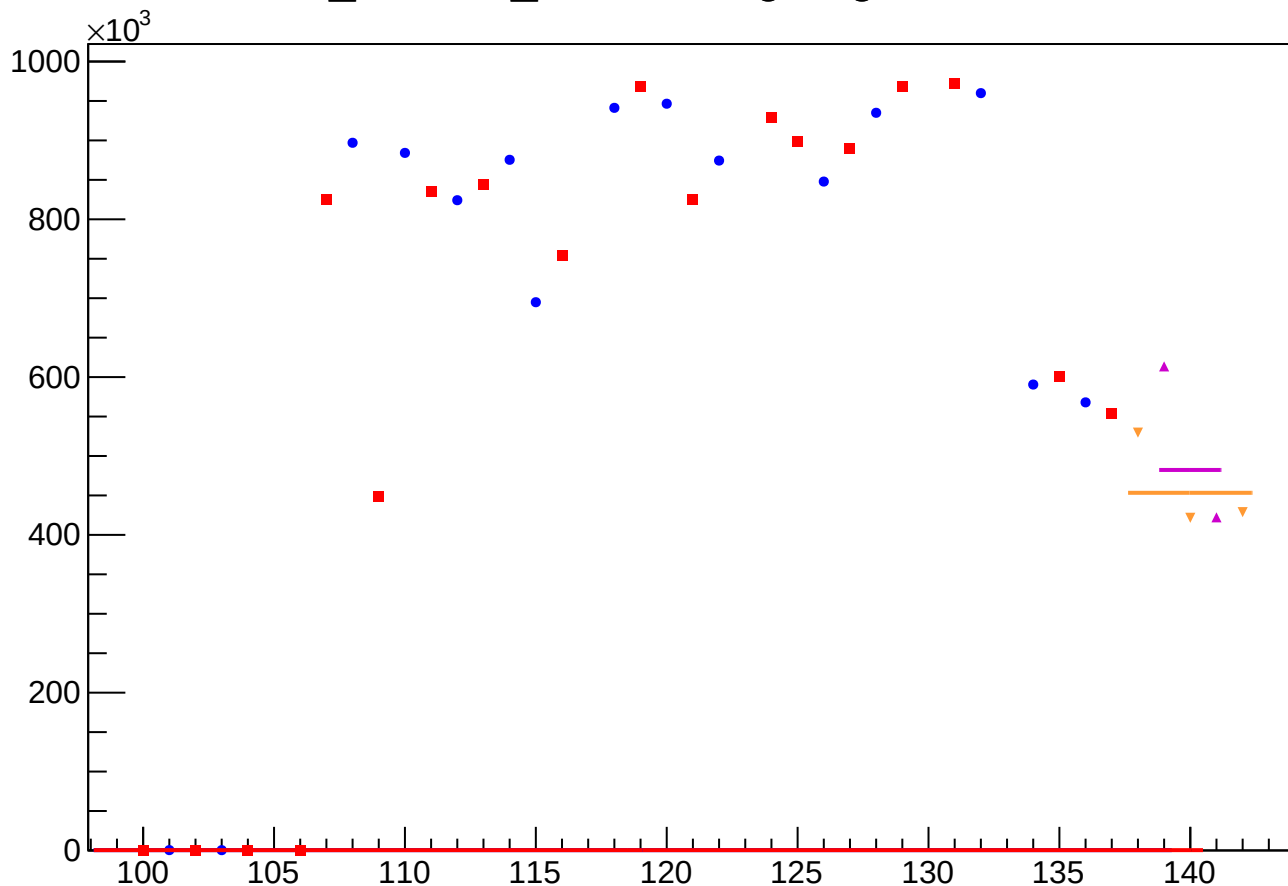
Right: 0.065 ± 0.241 $\chi^2/\text{NDF}: 33.7/34$

In: 0.256 ± 0.356 $\chi^2/\text{NDF}: 19.9/17$

Out: -0.096 ± 0.328 $\chi^2/\text{NDF}: 22.8/21$

All: 0.066 ± 0.241 $\chi^2/\text{NDF}: 43.2/39$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 398.881 ± 0.251 $\chi^2/\text{NDF}: 8491830.9/14$

Left Out: 453335.651 ± 226.113 $\chi^2/\text{NDF}: 43826.0/2$

Right Out: 393.240 ± 0.232 $\chi^2/\text{NDF}: 7648578.2/17$

Left In: 482295.920 ± 264.282 $\chi^2/\text{NDF}: 112826.6/1$

Left: 465575.299 ± 171.811 $\chi^2/\text{NDF}: 163585.6/4$

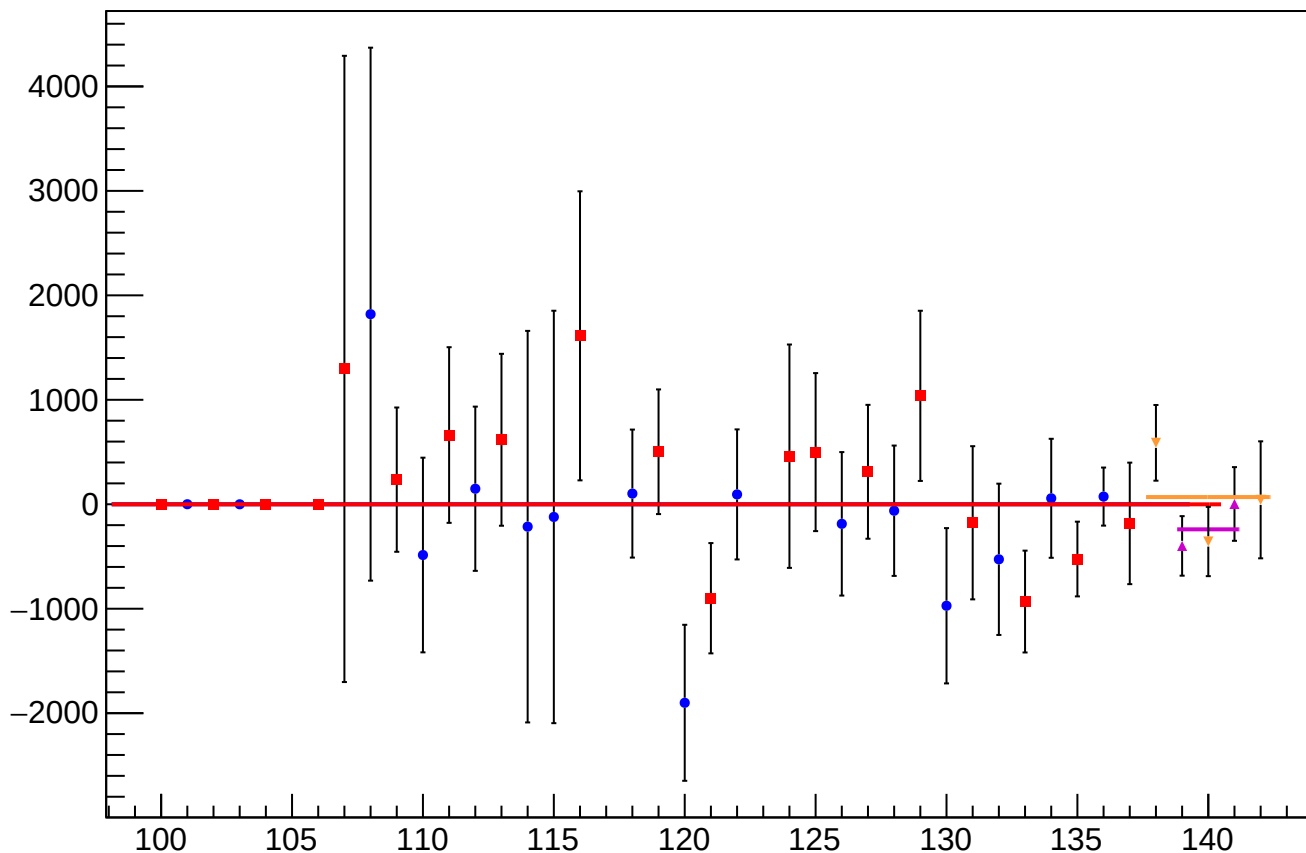
Right: 395.831 ± 0.170 $\chi^2/\text{NDF}: 16140681.1/32$

In: 399.317 ± 0.251 $\chi^2/\text{NDF}: 11929508.7/16$

Out: 393.716 ± 0.232 $\chi^2/\text{NDF}: 11705070.7/20$

All: 396.289 ± 0.170 $\chi^2/\text{NDF}: 23634847.6/37$

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.347 $\chi^2/\text{NDF}: 10.5/15$

Left Out: 68.977 ± 224.196 $\chi^2/\text{NDF}: 3.7/2$

Right Out: -0.599 ± 0.324 $\chi^2/\text{NDF}: 15.0/18$

Left In: -240.113 ± 221.680 $\chi^2/\text{NDF}: 0.8/1$

Left: -87.312 ± 157.634 $\chi^2/\text{NDF}: 5.4/4$

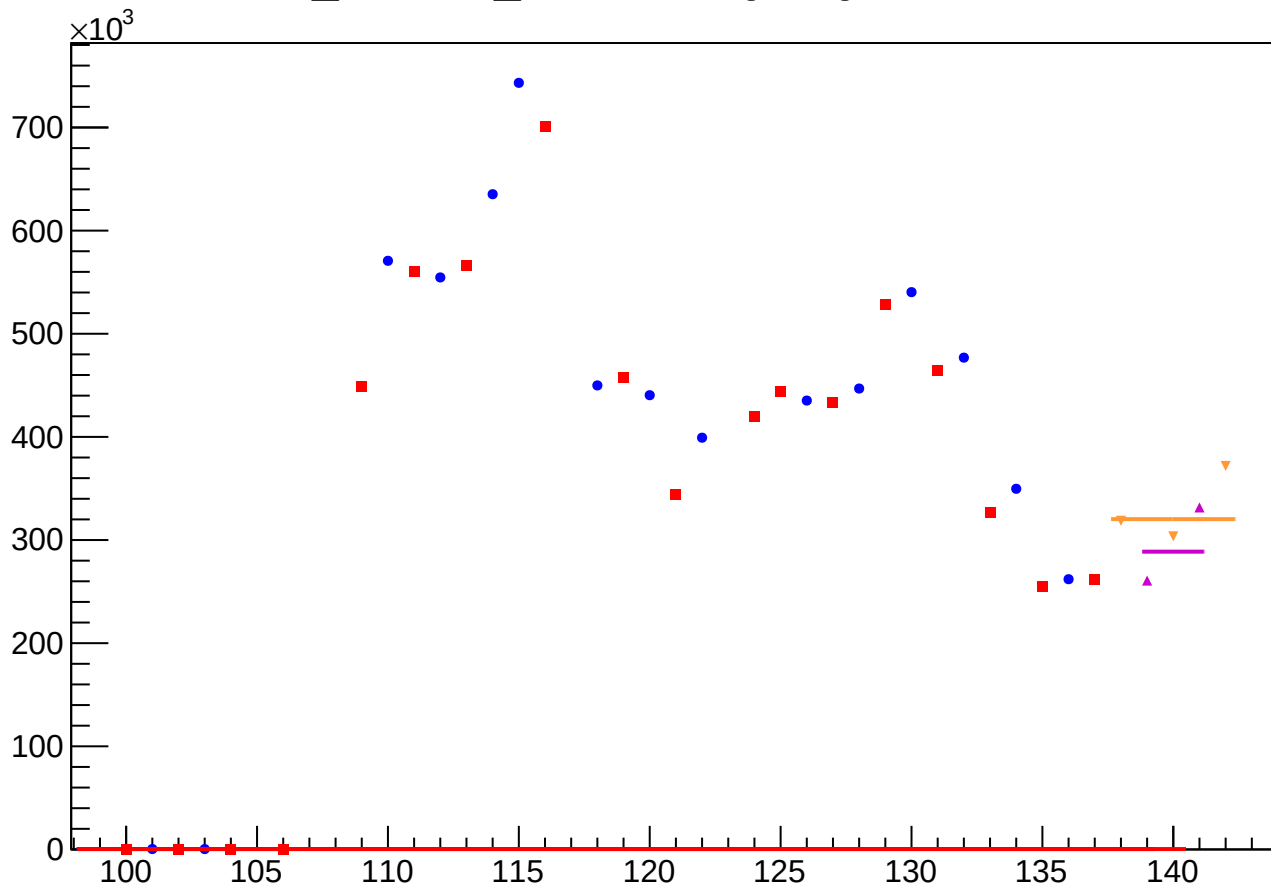
Right: -0.330 ± 0.237 $\chi^2/\text{NDF}: 27.0/34$

In: -0.021 ± 0.347 $\chi^2/\text{NDF}: 12.4/17$

Out: -0.599 ± 0.324 $\chi^2/\text{NDF}: 18.8/21$

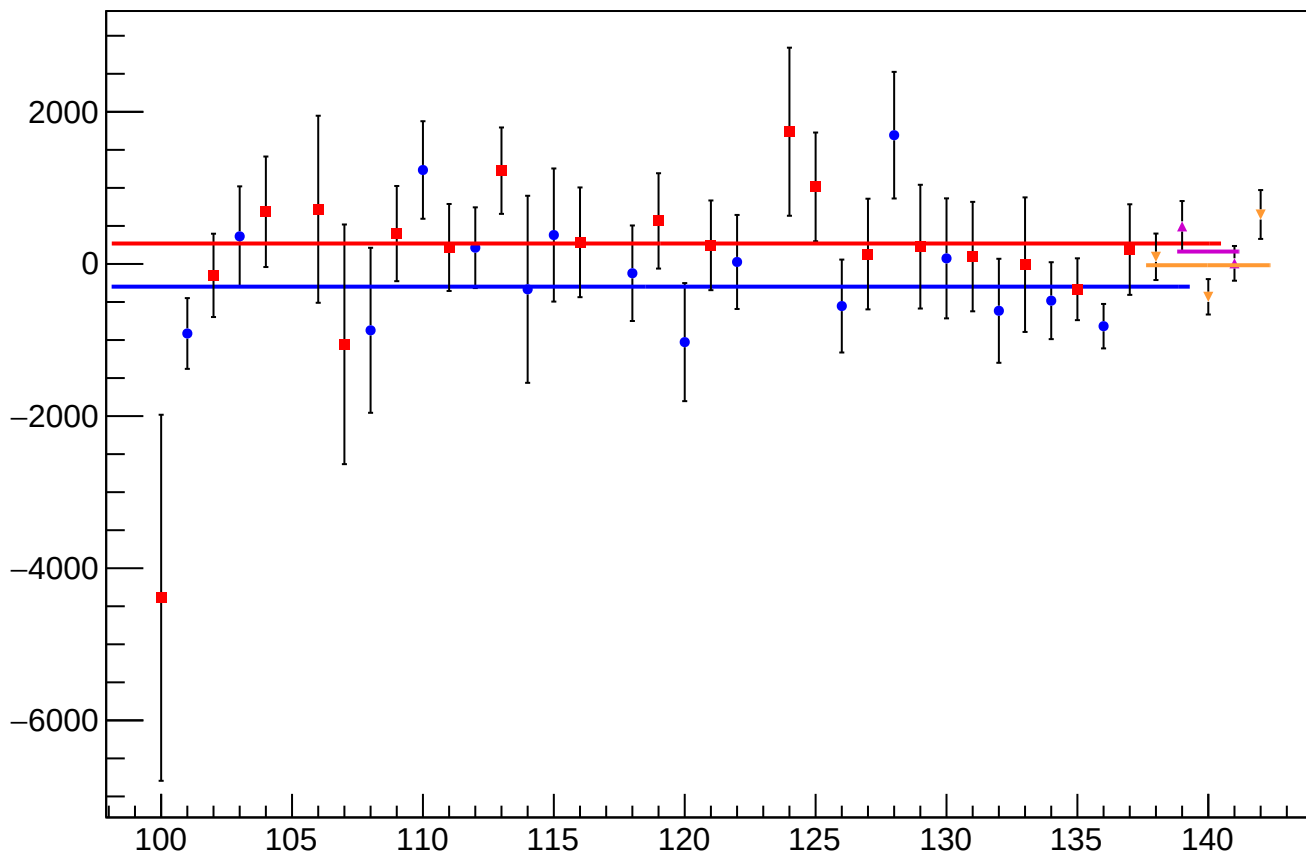
All: -0.330 ± 0.237 $\chi^2/\text{NDF}: 32.7/39$

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 390.276 ± 0.245 $\chi^2/\text{NDF}: 11132240.7/14$ Left: 304322.718 ± 111.464 $\chi^2/\text{NDF}: 91003.3/4$
 Left Out: 320275.210 ± 158.531 $\chi^2/\text{NDF}: 22056.5/2$ Right: 389.050 ± 0.167 $\chi^2/\text{NDF}: 22206589.6/32$
 Right Out: 387.984 ± 0.229 $\chi^2/\text{NDF}: 11074302.3/17$ In: 390.983 ± 0.245 $\chi^2/\text{NDF}: 14564709.7/16$
 Out: 388.652 ± 0.229 $\chi^2/\text{NDF}: 15167971.2/20$
 Left In: 288726.247 ± 156.752 $\chi^2/\text{NDF}: 48921.0/1$ All: 389.736 ± 0.167 $\chi^2/\text{NDF}: 29732729.1/37$

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -298.263 ± 147.367 $\chi^2/\text{NDF}: 21.2/15$

Left Out: -16.635 ± 160.427 $\chi^2/\text{NDF}: 7.6/2$

Right Out: 268.892 ± 156.582 $\chi^2/\text{NDF}: 13.9/18$

Left In: 163.141 ± 188.370 $\chi^2/\text{NDF}: 1.4/1$

Left: 58.943 ± 122.135 $\chi^2/\text{NDF}: 9.6/4$

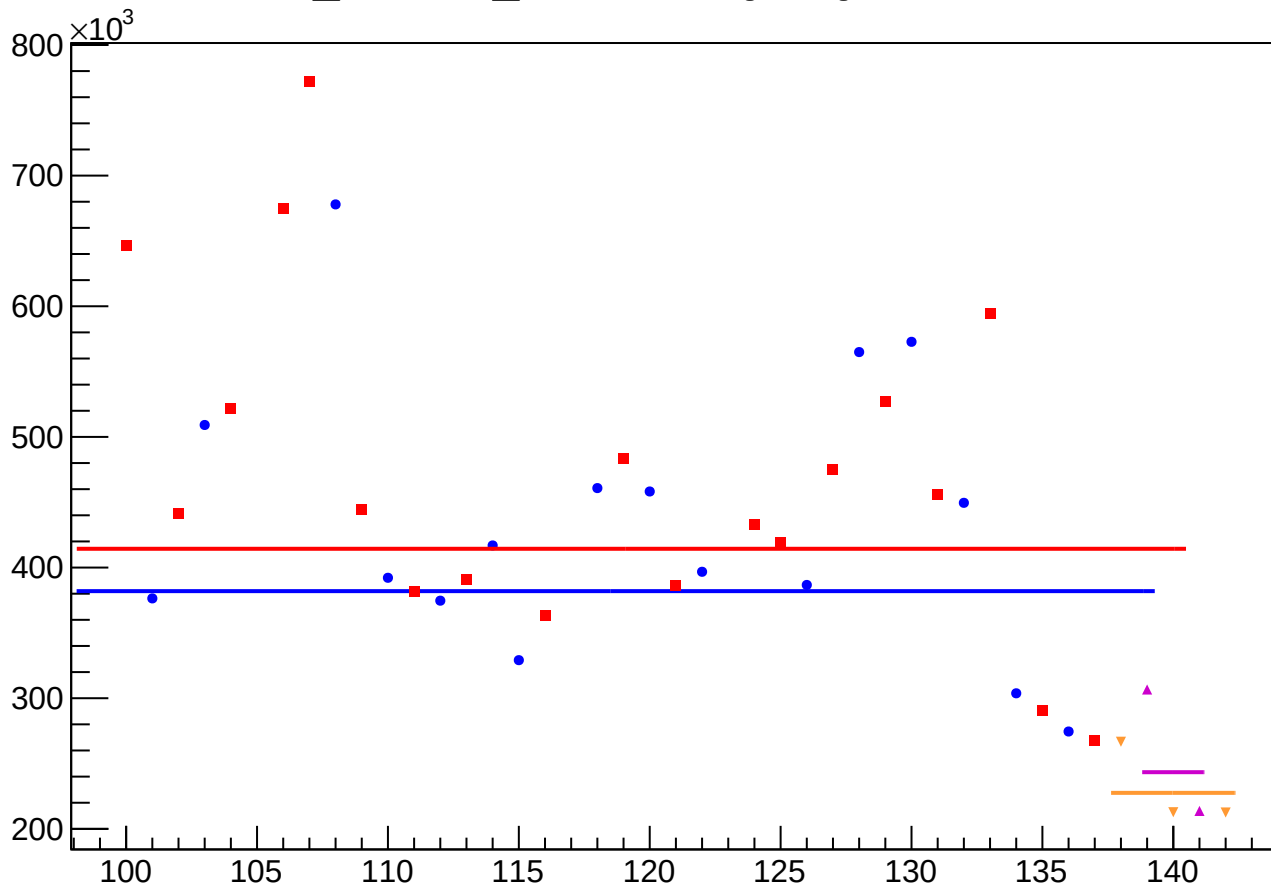
Right: -31.865 ± 107.314 $\chi^2/\text{NDF}: 42.0/34$

In: -123.083 ± 116.068 $\chi^2/\text{NDF}: 26.3/17$

Out: 129.591 ± 112.055 $\chi^2/\text{NDF}: 23.1/21$

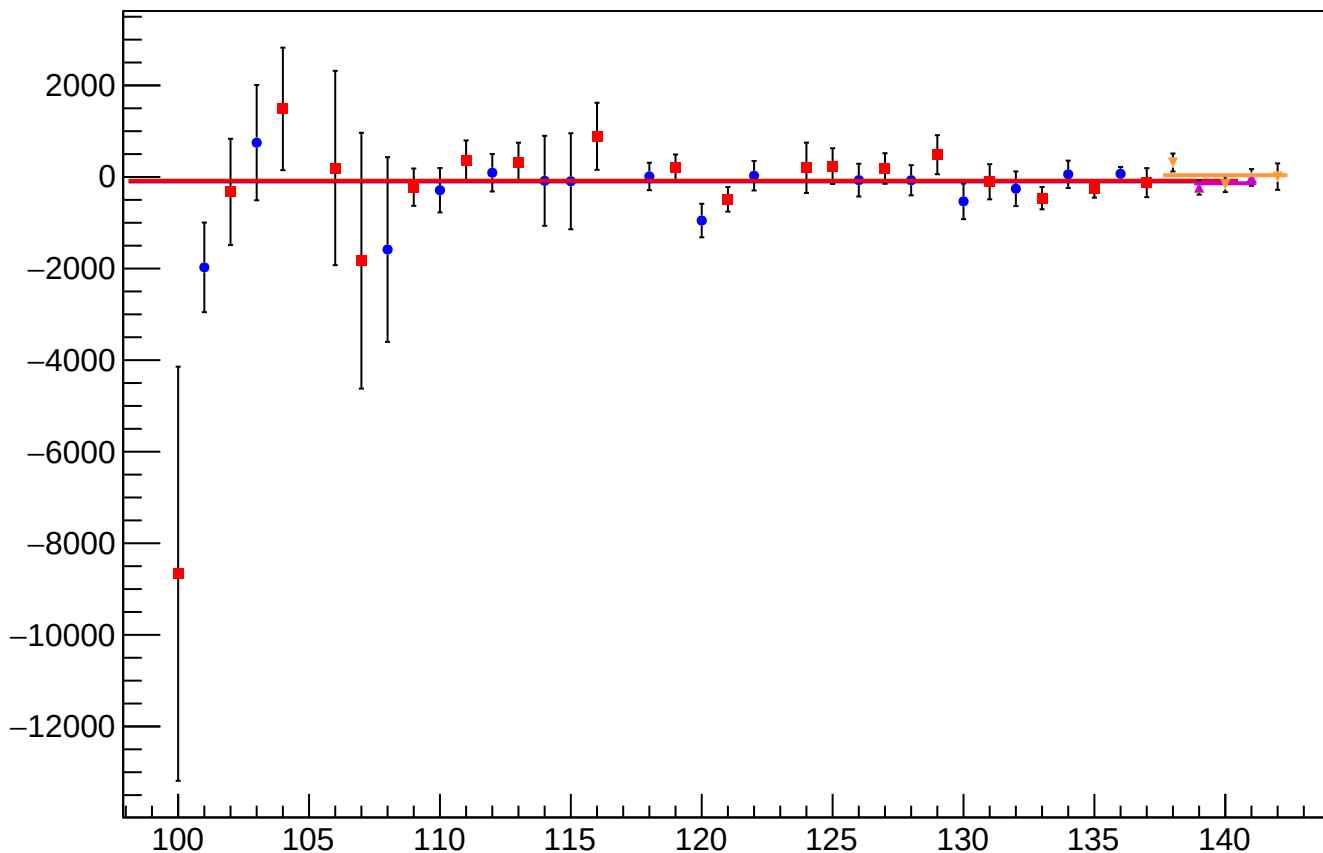
All: 7.698 ± 80.616 $\chi^2/\text{NDF}: 51.9/39$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 381960.471+/-104.223	χ^2/NDF : 836441.6/15	Left: 234217.171+/-86.363	χ^2/NDF : 159258.8/4
Left Out: 227565.287+/-113.439	χ^2/NDF : 45294.3/2	Right: 397186.164+/-75.899	χ^2/NDF : 1641963.2/34
Right Out: 414378.043+/-110.748	χ^2/NDF : 760082.5/18	In: 329337.248+/-82.082	χ^2/NDF : 1613541.4/17
Left In: 243388.097+/-133.198	χ^2/NDF : 105785.4/1	Out: 323213.345+/-79.245	χ^2/NDF : 2193918.2/21
		All: 326167.649+/-57.011	χ^2/NDF : 3810340.0/10

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -95.850 ± 88.267 χ^2/NDF : 13.7/15

Left Out: 38.227 ± 117.230 χ^2/NDF : 3.4/2

Right Out: -82.750 ± 87.316 χ^2/NDF : 19.1/18

Left In: -137.152 ± 118.292 χ^2/NDF : 0.9/1

Left: -48.672 ± 83.267 χ^2/NDF : 5.4/4

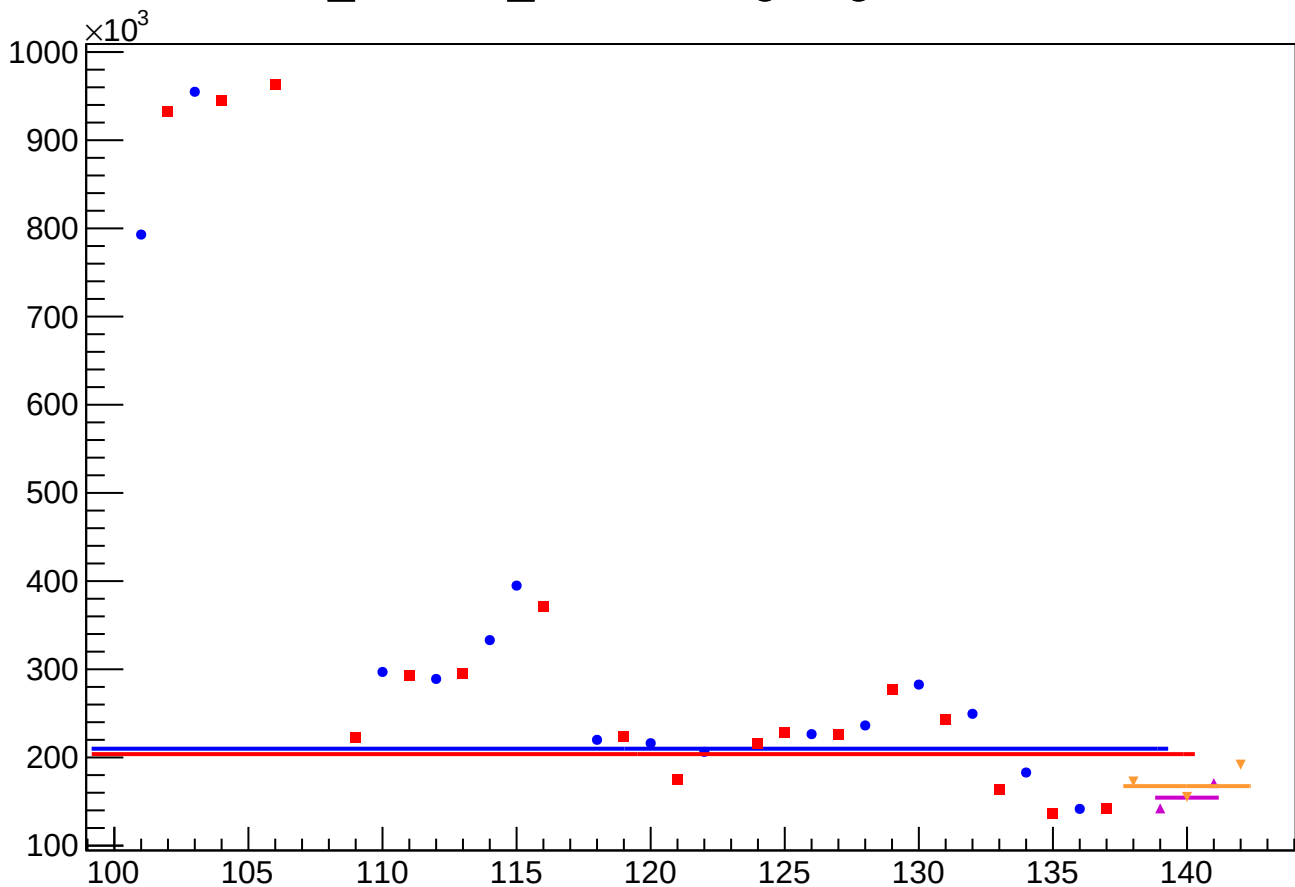
Right: -89.229 ± 62.075 χ^2/NDF : 32.8/34

In: -110.622 ± 70.743 χ^2/NDF : 14.6/17

Out: -39.583 ± 70.026 χ^2/NDF : 23.2/21

All: -74.741 ± 49.767 χ^2/NDF : 38.3/39

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 209929.195 $\pm$ 62.523

χ^2/NDF : 1959897.2/14

Left Out: 167501.713 $\pm$ 82.894

χ^2/NDF : 26040.6/2

Right Out: 203793.382 $\pm$ 61.895

χ^2/NDF : 2070478.1/16

Left In: 154430.987 $\pm$ 83.645

χ^2/NDF : 28737.4/1

Left: 161025.271 $\pm$ 58.879

χ^2/NDF : 67097.4/4

Right: 206830.314 $\pm$ 43.987

χ^2/NDF : 4035239.4/31

In: 190035.850 $\pm$ 50.079

χ^2/NDF : 2271064.6/16

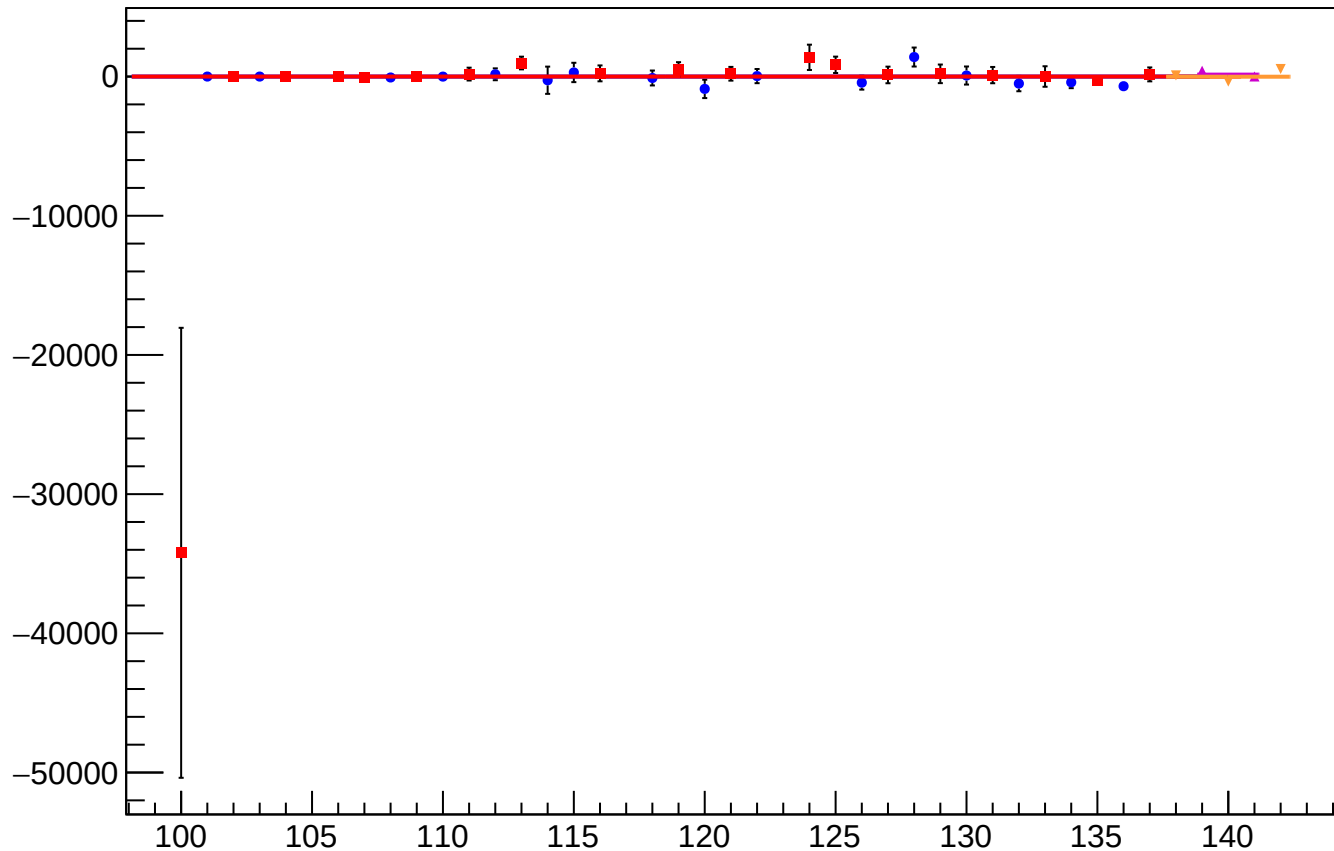
Out: 190802.657 $\pm$ 49.595

χ^2/NDF : 2219583.6/19

All: 190422.976 $\pm$ 35.239

χ^2/NDF : 4490766.

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.035 ± 0.172 $\chi^2/\text{NDF}: 18.1/15$

Left Out: -10.672 ± 133.479 $\chi^2/\text{NDF}: 7.7/2$

Right Out: 0.355 ± 0.160 $\chi^2/\text{NDF}: 16.5/18$

Left In: 139.421 ± 157.053 $\chi^2/\text{NDF}: 1.5/1$

Left: 52.276 ± 101.708 $\chi^2/\text{NDF}: 9.7/4$

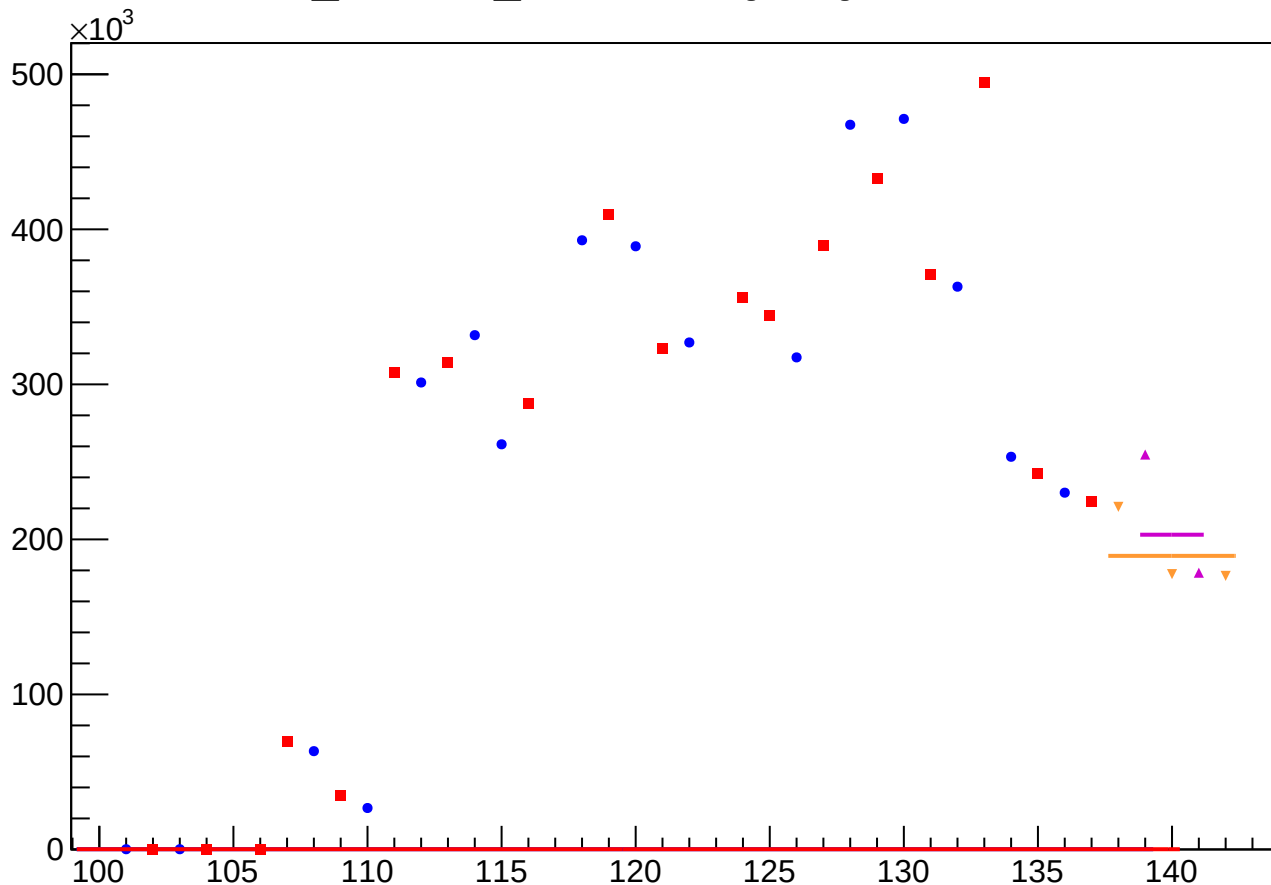
Right: 0.174 ± 0.117 $\chi^2/\text{NDF}: 37.4/34$

In: -0.035 ± 0.172 $\chi^2/\text{NDF}: 20.4/17$

Out: 0.355 ± 0.160 $\chi^2/\text{NDF}: 24.2/21$

All: 0.174 ± 0.117 $\chi^2/\text{NDF}: 47.3/39$

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 149.092 $\pm$ 0.122 χ^2/NDF : 11301940.9/15

Left Out: 189376.141 $\pm$ 94.384 χ^2/NDF :43224.7/2

Right Out: 149.379 $\pm$ 0.113 χ^2/NDF : 11288711.4/17

Left In: 203020.693 $\pm$ 111.053 χ^2/NDF :102757.8/1

Left: 195098.543 $\pm$ 71.919 χ^2/NDF : 154747.3/4

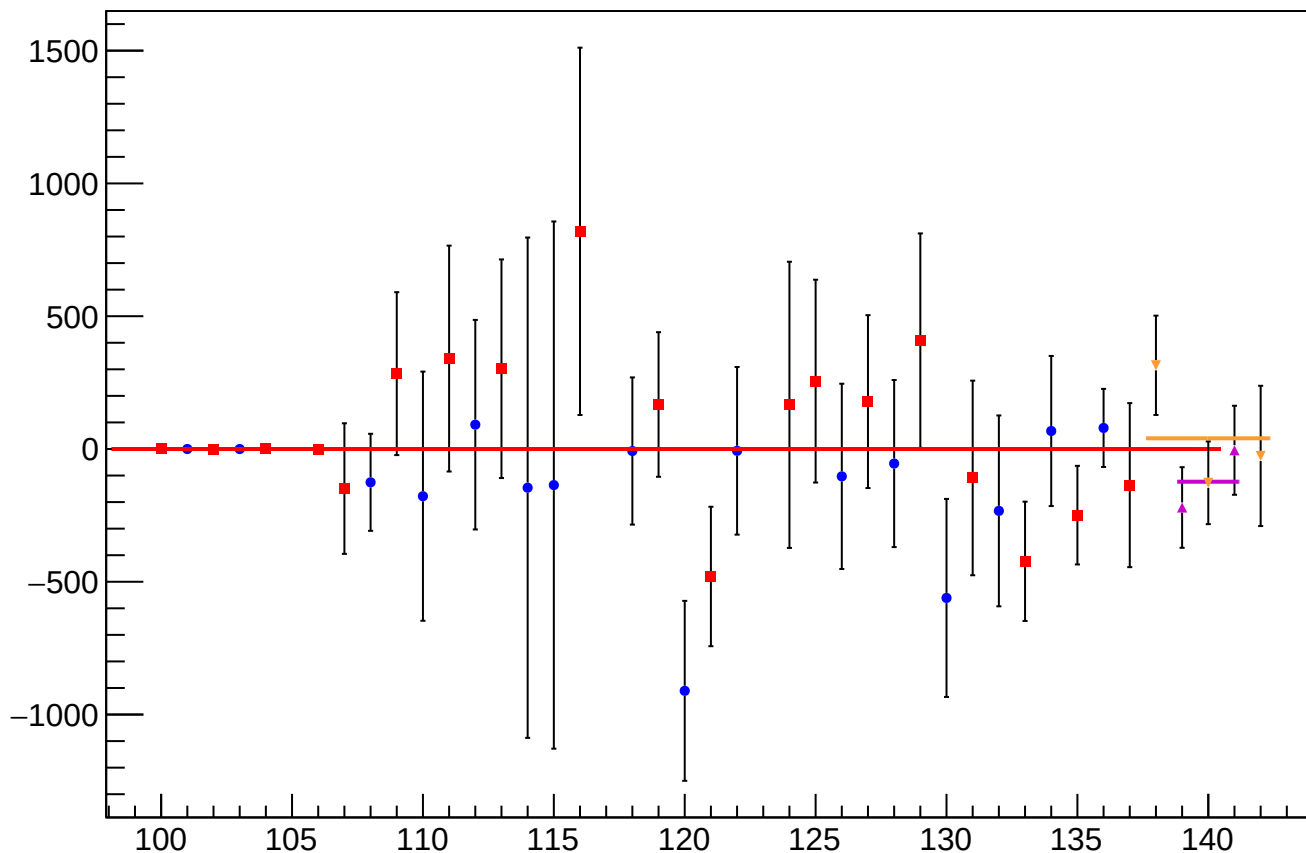
Right: 149.246 $\pm$ 0.083 χ^2/NDF : 22590655.3/33

In: 149.336 $\pm$ 0.122 χ^2/NDF :14741873.9/17

Out: 149.651 $\pm$ 0.113 χ^2/NDF :15351382.6/20

All: 149.505 $\pm$ 0.083 χ^2/NDF : 30093260.1/38

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: -0.068 ± 0.177 χ^2/NDF : 11.2/15

Left Out: 40.254 ± 108.982 χ^2/NDF : 3.4/2

Right Out: -0.126 ± 0.166 χ^2/NDF : 15.2/18

Left In: -123.249 ± 112.507 χ^2/NDF : 0.9/1

Left: -38.896 ± 78.278 χ^2/NDF : 5.4/4

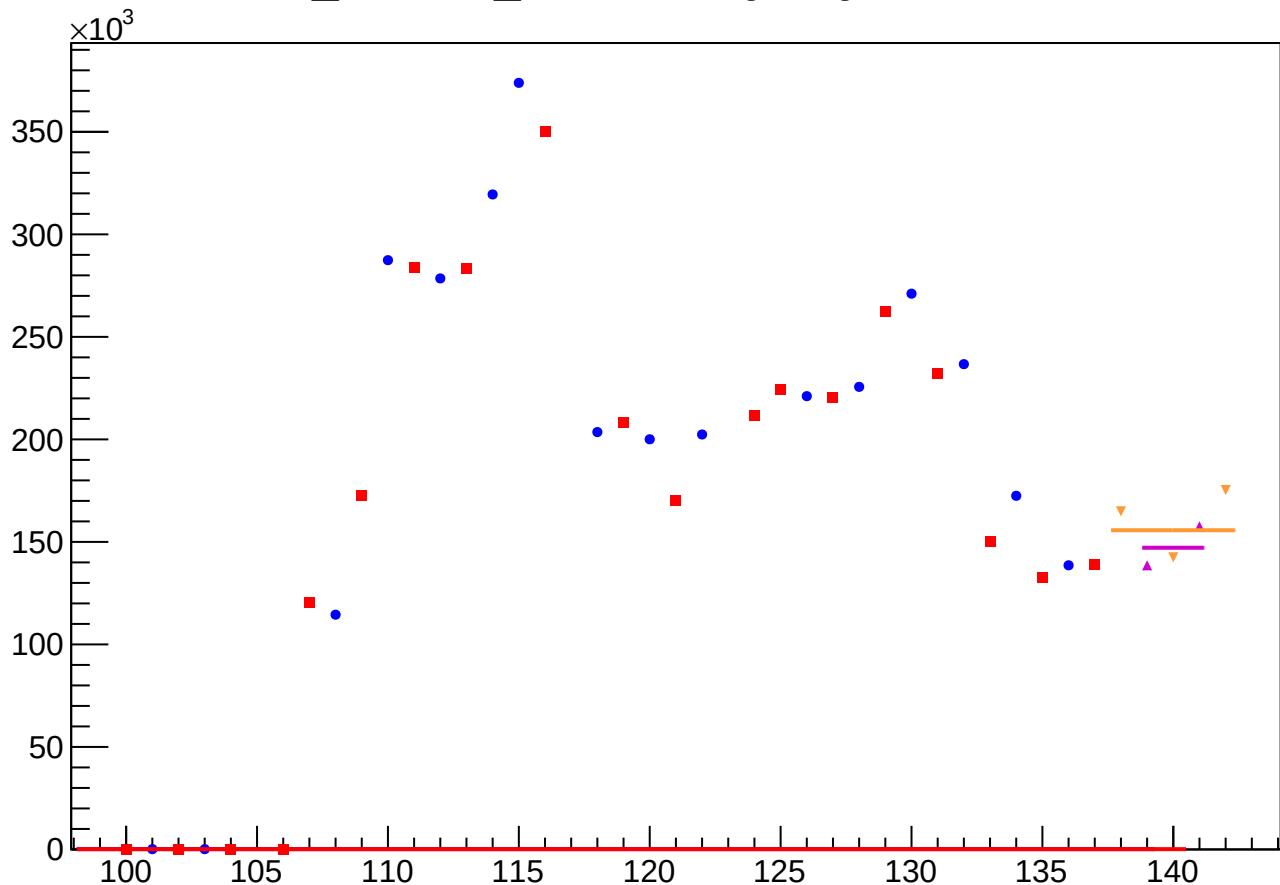
Right: -0.099 ± 0.121 χ^2/NDF : 26.5/34

In: -0.068 ± 0.177 χ^2/NDF : 13.3/17

Out: -0.126 ± 0.166 χ^2/NDF : 18.8/21

All: -0.099 ± 0.121 χ^2/NDF : 32.1/39

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 153.460 $\pm$ 0.125 χ^2/NDF : 11904914.7/15

Left Out: 155689.141 $\pm$ 77.062 χ^2/NDF :30304.0/2

Right Out: 156.158 $\pm$ 0.118 χ^2/NDF : 11330885.6/18

Left In: 147153.862 $\pm$ 79.555 χ^2/NDF :14126.6/1

Left: 151557.312 $\pm$ 55.351 χ^2/NDF : 50369.1/4

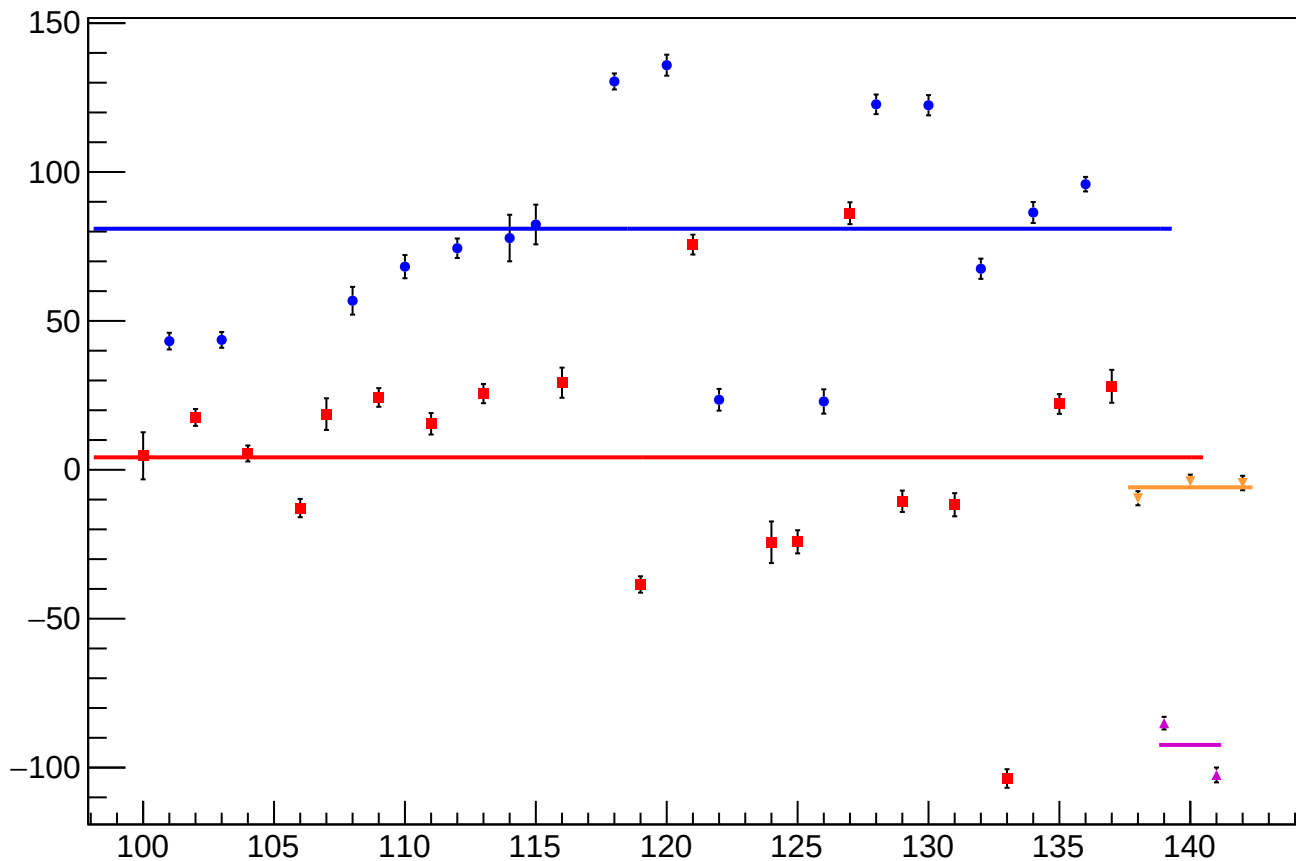
Right: 154.893 $\pm$ 0.086 χ^2/NDF : 23236046.4/34

In: 153.825 $\pm$ 0.125 χ^2/NDF :15333378.7/17

Out: 156.521 $\pm$ 0.118 χ^2/NDF :15434665.8/21

All: 155.257 $\pm$ 0.086 χ^2/NDF : 30768290.3/39

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 80.955+/-0.851 χ^2/NDF : 1813.9/15

Left Out: -5.878+/-1.350 χ^2/NDF : 3.6/2

Right Out: 4.183+/-0.820 χ^2/NDF : 2719.7/18

Left In: -92.391+/-1.621 χ^2/NDF : 28.0/1

Left: -41.320+/-1.038 χ^2/NDF : 1713.1/4

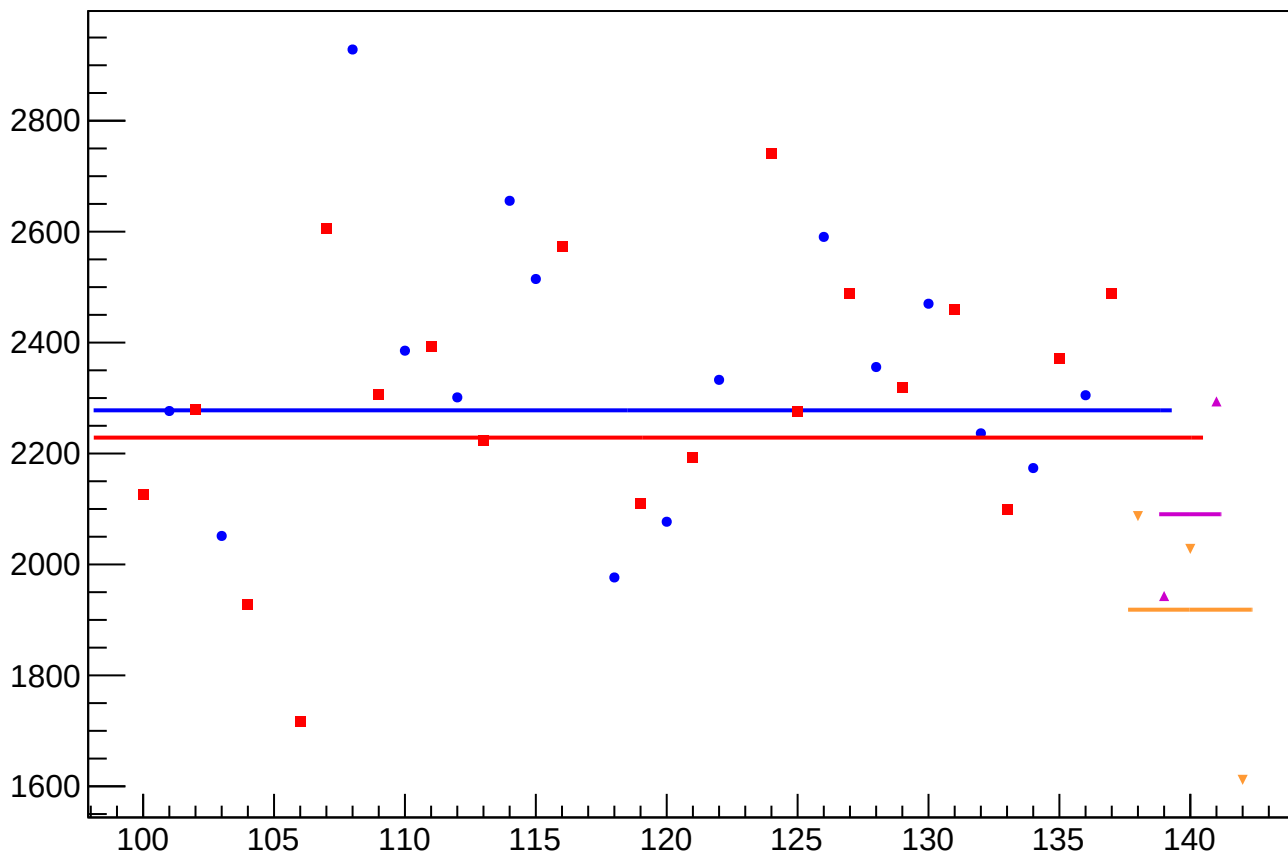
Right: 41.130+/-0.591 χ^2/NDF : 8751.0/34

In: 43.470+/-0.754 χ^2/NDF : 10804.8/17

Out: 1.472+/-0.701 χ^2/NDF : 2763.9/21

All: 20.948+/-0.513 χ^2/NDF : 15233.4/39

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2277.867 $\pm$ 0.602 χ^2 /NDF: 115771.4/15

Left Out: 1918.442 $\pm$ 0.955 χ^2 /NDF: 46854.7/2

Right Out: 2228.689 $\pm$ 0.580 χ^2 /NDF: 151135.6/18

Left In: 2090.524 $\pm$ 1.146 χ^2 /NDF: 22830.3/1

Left: 1988.939 $\pm$ 0.734 χ^2 /NDF: 82990.6/4

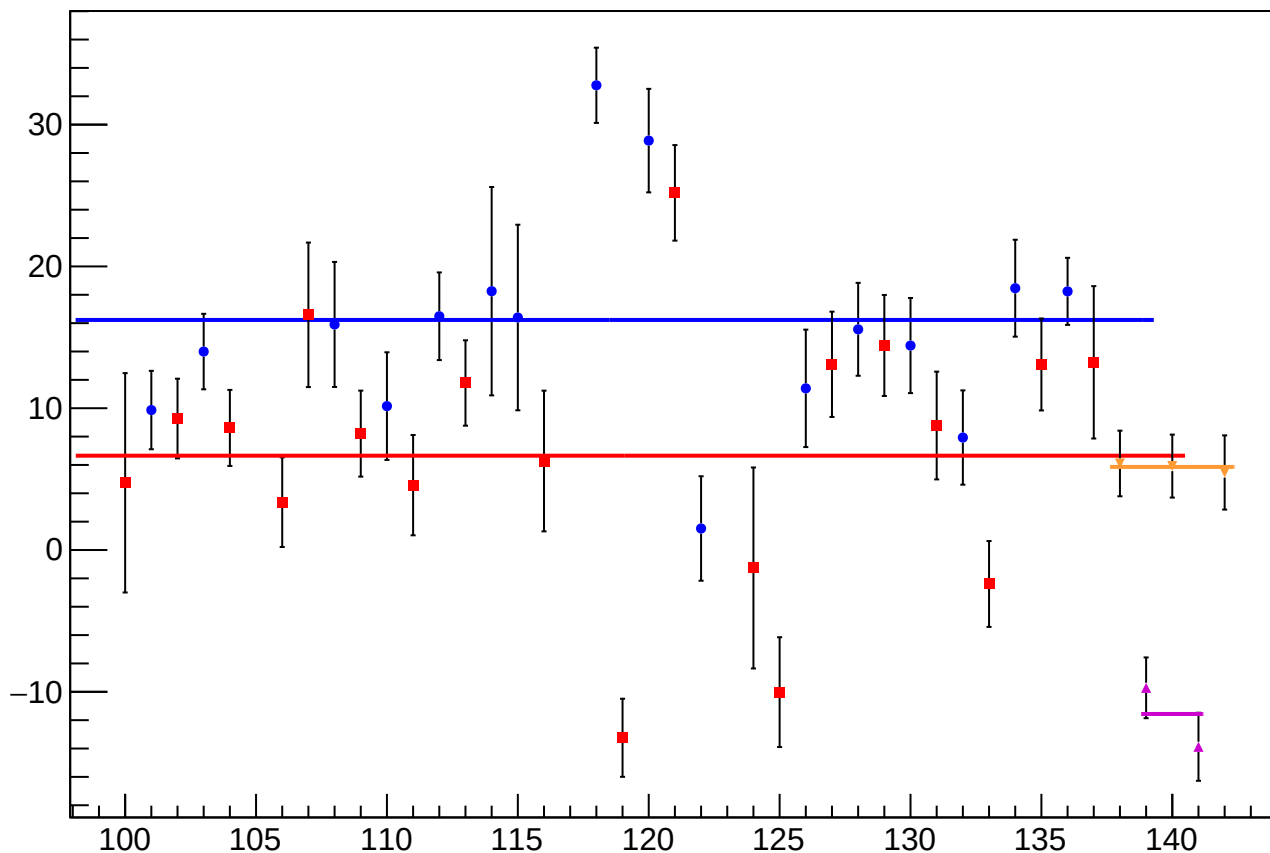
Right: 2252.356 $\pm$ 0.418 χ^2 /NDF: 270367.9/34

In: 2237.355 $\pm$ 0.533 χ^2 /NDF: 159539.3/17

Out: 2145.091 $\pm$ 0.496 χ^2 /NDF: 275115.3/21

All: 2187.877 $\pm$ 0.363 χ^2 /NDF: 450723.1/39

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.226 ± 0.838 $\chi^2/\text{NDF}: 84.5/15$

Left Out: 5.860 ± 1.366 $\chi^2/\text{NDF}: 0.0/2$

Right Out: 6.652 ± 0.809 $\chi^2/\text{NDF}: 134.6/18$

Left In: -11.563 ± 1.598 $\chi^2/\text{NDF}: 1.7/1$

Left: -1.496 ± 1.039 $\chi^2/\text{NDF}: 70.4/4$

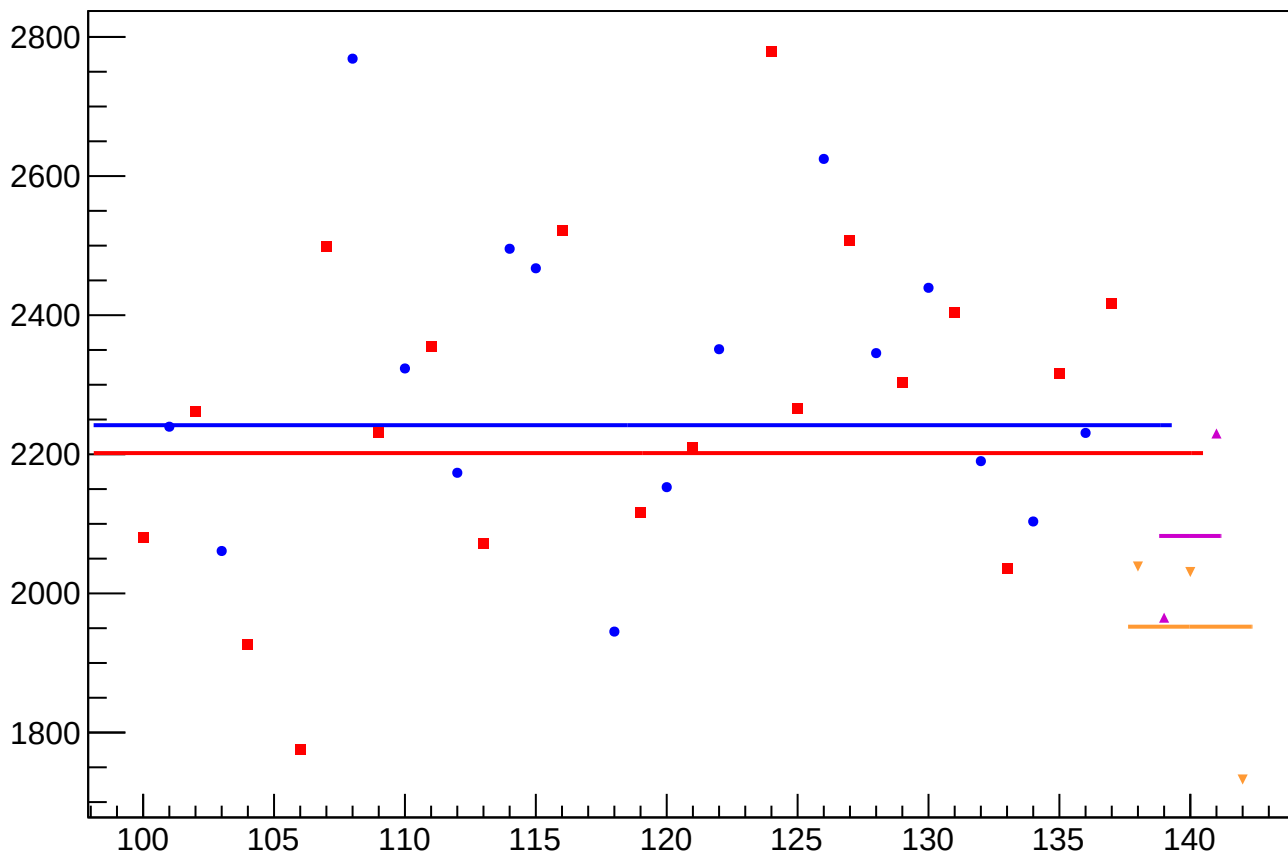
Right: 11.274 ± 0.582 $\chi^2/\text{NDF}: 286.7/34$

In: 10.239 ± 0.742 $\chi^2/\text{NDF}: 323.3/17$

Out: 6.446 ± 0.696 $\chi^2/\text{NDF}: 134.8/21$

All: 8.223 ± 0.508 $\chi^2/\text{NDF}: 472.1/39$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2241.853 $\pm$ 0.592 χ^2/NDF : 102260.7/15

Left Out: 1952.178 $\pm$ 0.966 χ^2/NDF : 19401.7/2

Right Out: 2201.739 $\pm$ 0.572 χ^2/NDF : 129882.5/18

Left In: 2082.612 $\pm$ 1.130 χ^2/NDF : 13546.0/1

Left: 2007.251 $\pm$ 0.734 χ^2/NDF : 40642.7/4

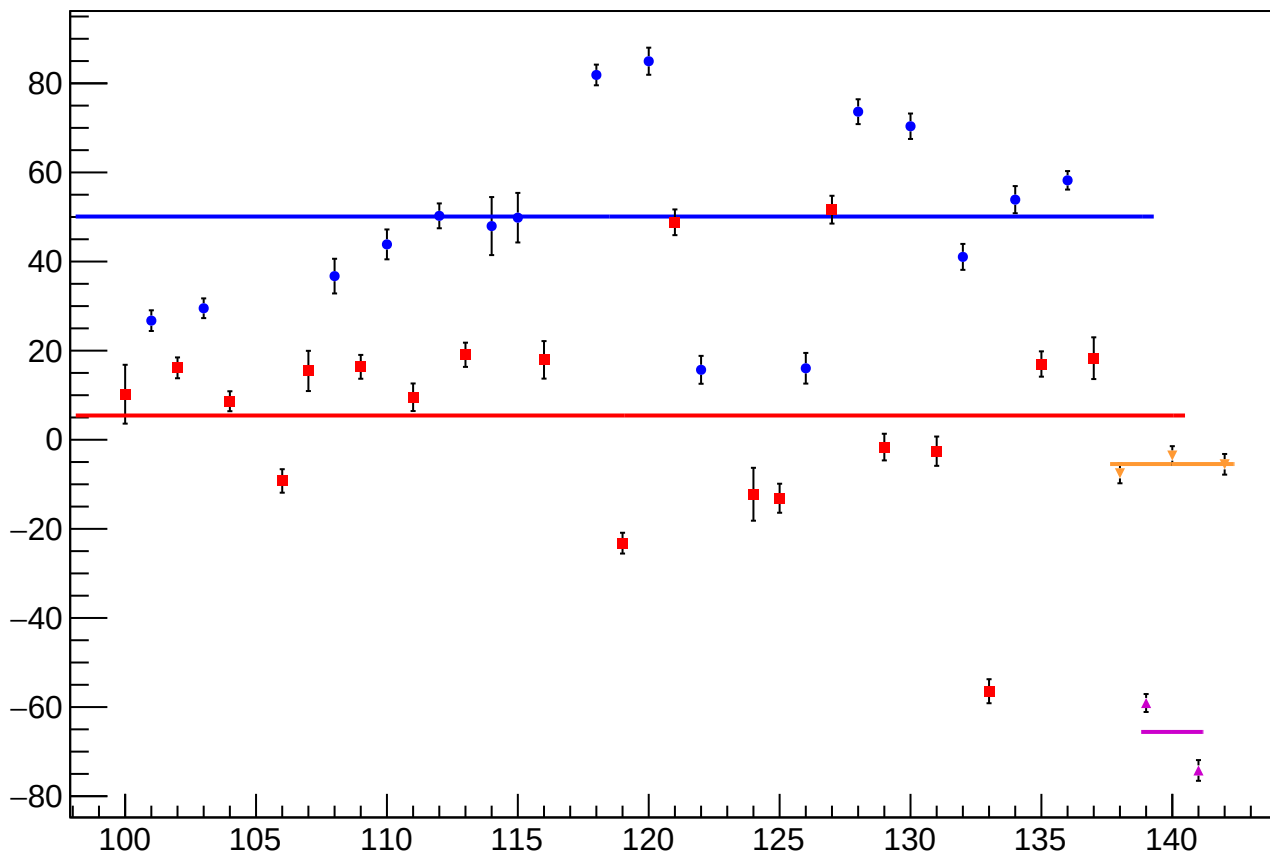
Right: 2221.106 $\pm$ 0.412 χ^2/NDF : 234515.6/34

In: 2207.545 $\pm$ 0.525 χ^2/NDF : 131380.6/17

Out: 2136.927 $\pm$ 0.492 χ^2/NDF : 198674.4/21

All: 2170.000 $\pm$ 0.359 χ^2/NDF : 339688.8/39

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.102+/-0.722 χ^2/NDF : 888.5/15

Left Out: -5.450+/-1.281 χ^2/NDF : 1.7/2

Right Out: 5.444+/-0.694 χ^2/NDF : 1311.6/18

Left In: -65.580+/-1.523 χ^2/NDF : 24.2/1

Left: -30.364+/-0.980 χ^2/NDF : 939.1/4

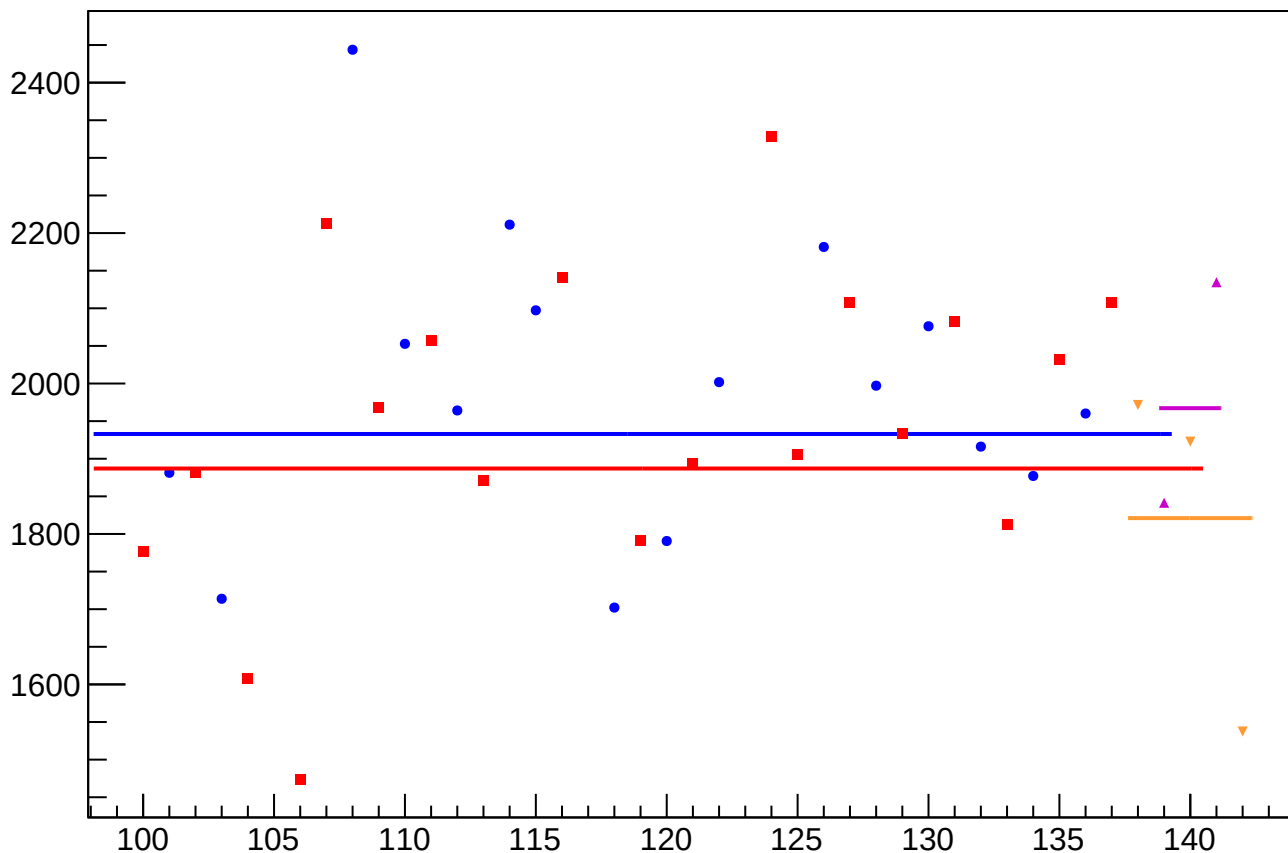
Right: 26.895+/-0.500 χ^2/NDF : 4187.6/34

In: 28.862+/-0.652 χ^2/NDF : 5624.6/17

Out: 2.970+/-0.610 χ^2/NDF : 1369.2/21

All: 15.053+/-0.446 χ^2/NDF : 7833.6/39

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1932.904 $\pm$ 0.511 χ^2 /NDF: 105967.6/15

Left Out: 1821.070 $\pm$ 0.906 χ^2 /NDF: 43597.7/2

Right Out: 1887.006 $\pm$ 0.491 χ^2 /NDF: 149746.6/18

Left In: 1967.237 $\pm$ 1.077 χ^2 /NDF: 18156.8/1

Left: 1881.632 $\pm$ 0.693 χ^2 /NDF: 72547.5/4

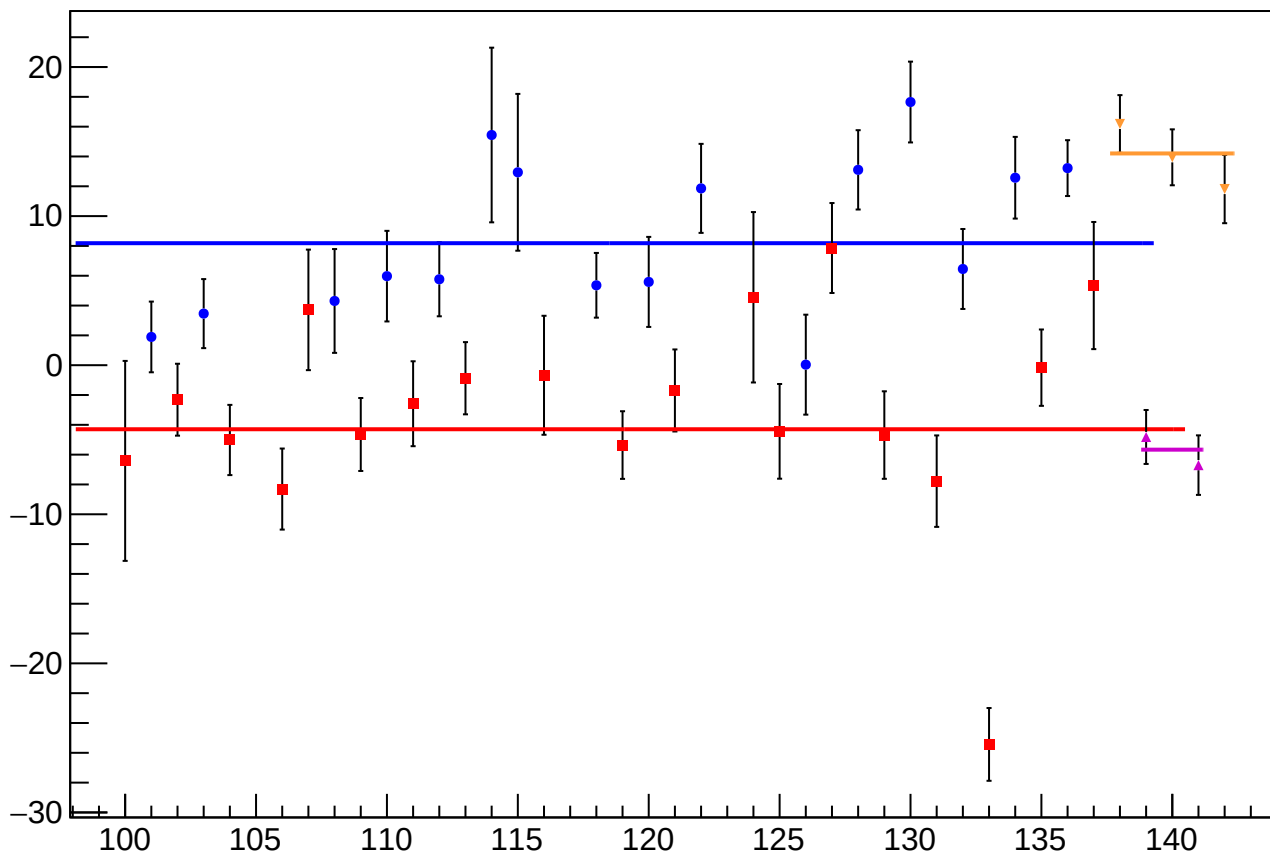
Right: 1909.052 $\pm$ 0.354 χ^2 /NDF: 259912.9/34

In: 1939.208 $\pm$ 0.461 χ^2 /NDF: 124954.5/17

Out: 1872.031 $\pm$ 0.432 χ^2 /NDF: 197441.2/21

All: 1903.382 $\pm$ 0.315 χ^2 /NDF: 333702.0/39

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.183 $\pm$ 0.684 χ^2/NDF : 52.0/15

Left Out: 14.203 $\pm$ 1.161 χ^2/NDF : 2.1/2

Right Out: -4.297 $\pm$ 0.665 χ^2/NDF : 114.0/18

Left In: -5.666 $\pm$ 1.341 χ^2/NDF : 0.5/1

Left: 5.688 $\pm$ 0.878 χ^2/NDF : 128.1/4

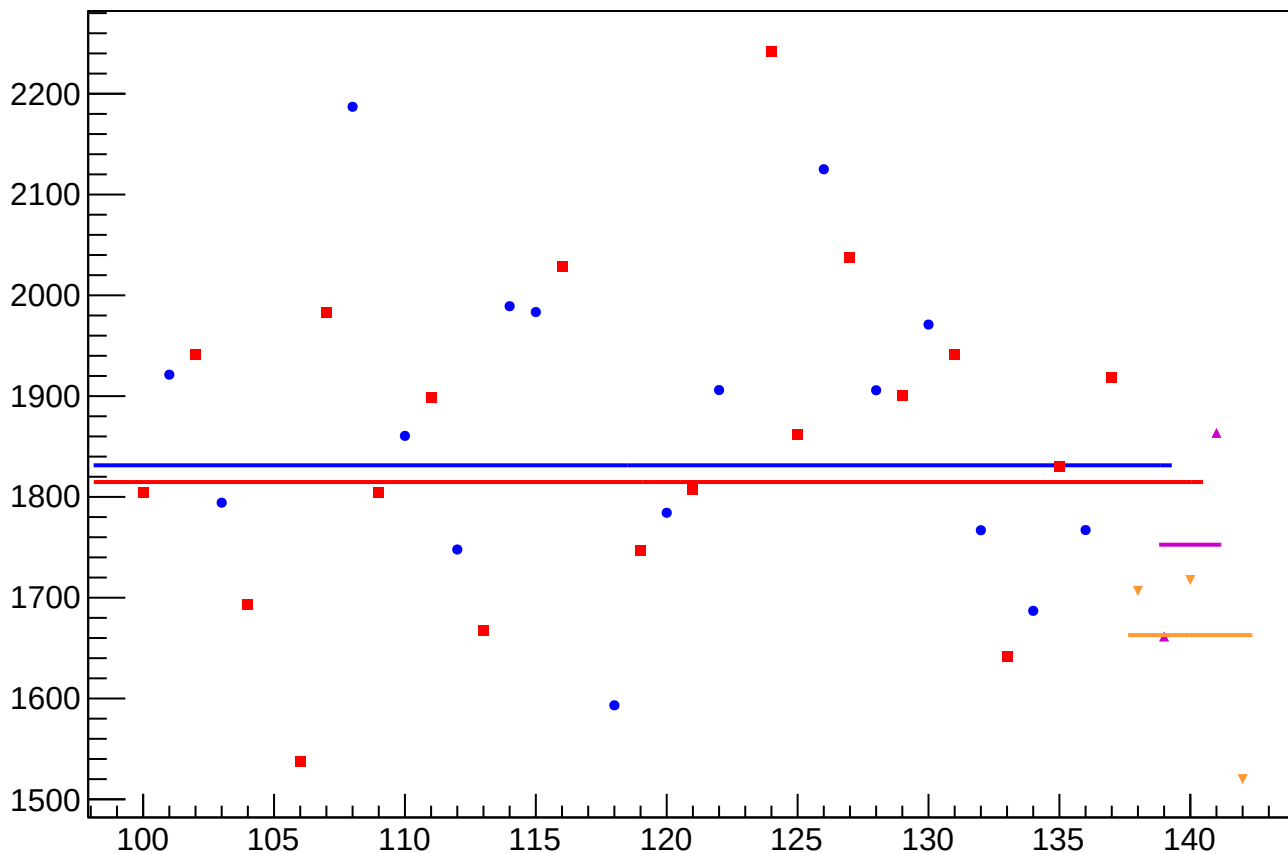
Right: 1.776 $\pm$ 0.477 χ^2/NDF : 337.0/34

In: 5.326 $\pm$ 0.609 χ^2/NDF : 137.1/17

Out: 0.277 $\pm$ 0.577 χ^2/NDF : 307.2/21

All: 2.667 $\pm$ 0.419 χ^2/NDF : 480.5/39

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1831.359 $\pm$ 0.483 χ^2/NDF : 86919.2/15

Left Out: 1662.908 $\pm$ 0.821 χ^2/NDF :10498.7/2

Right Out: 1814.774 $\pm$ 0.471 χ^2/NDF : 90738.7/18

Left In: 1752.605 $\pm$ 0.948 χ^2/NDF :11243.2/1

Left: 1701.348 $\pm$ 0.621 χ^2/NDF : 26856.4/4

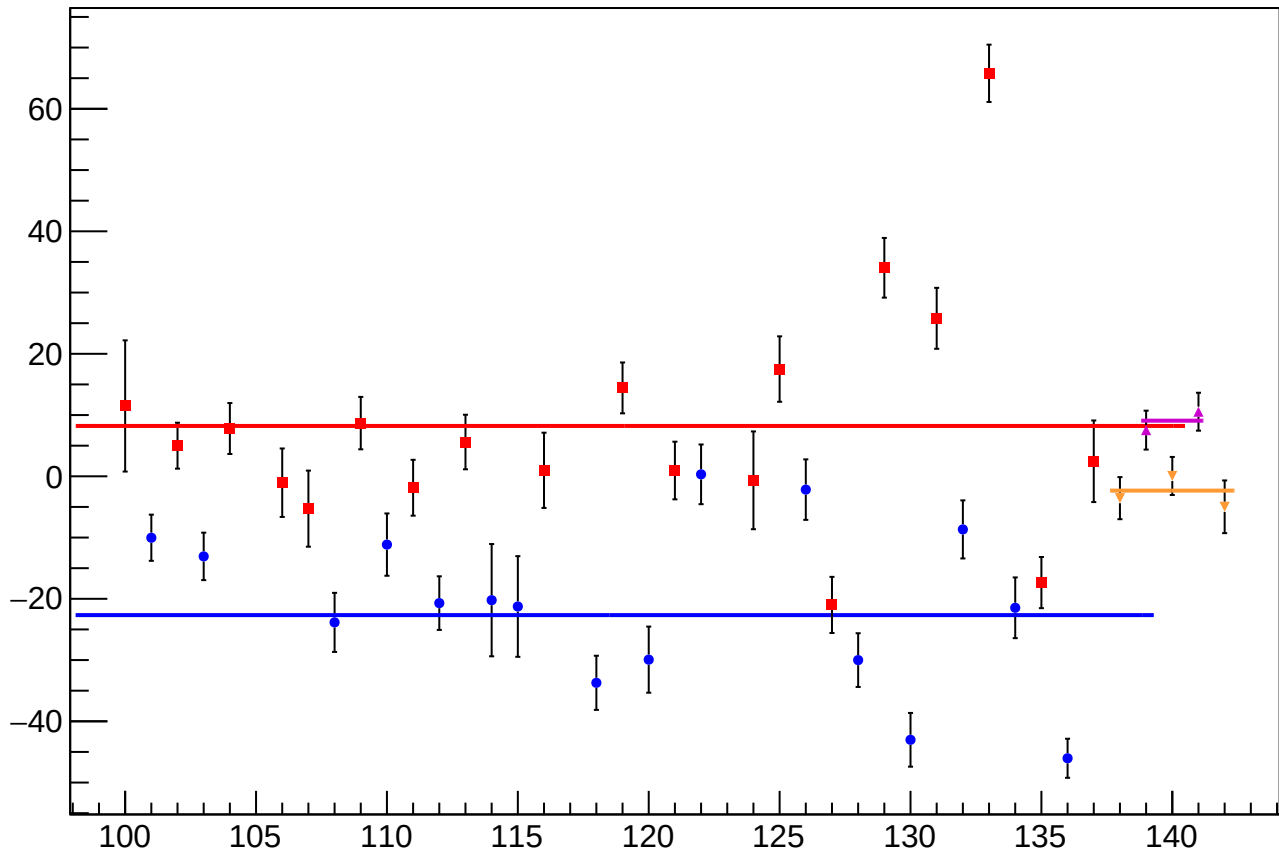
Right: 1822.844 $\pm$ 0.337 χ^2/NDF : 178262.4/34

In: 1815.114 $\pm$ 0.431 χ^2/NDF :103638.7/17

Out: 1777.227 $\pm$ 0.408 χ^2/NDF :126989.5/21

All: 1795.161 $\pm$ 0.296 χ^2/NDF : 234704.7/39

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.663 ± 1.152 $\chi^2/\text{NDF}: 157.2/15$

Left Out: -2.334 ± 2.031 $\chi^2/\text{NDF}: 1.1/2$

Right Out: 8.224 ± 1.129 $\chi^2/\text{NDF}: 294.8/18$

Left In: 9.083 ± 2.217 $\chi^2/\text{NDF}: 0.5/1$

Left: 2.876 ± 1.498 $\chi^2/\text{NDF}: 16.0/4$

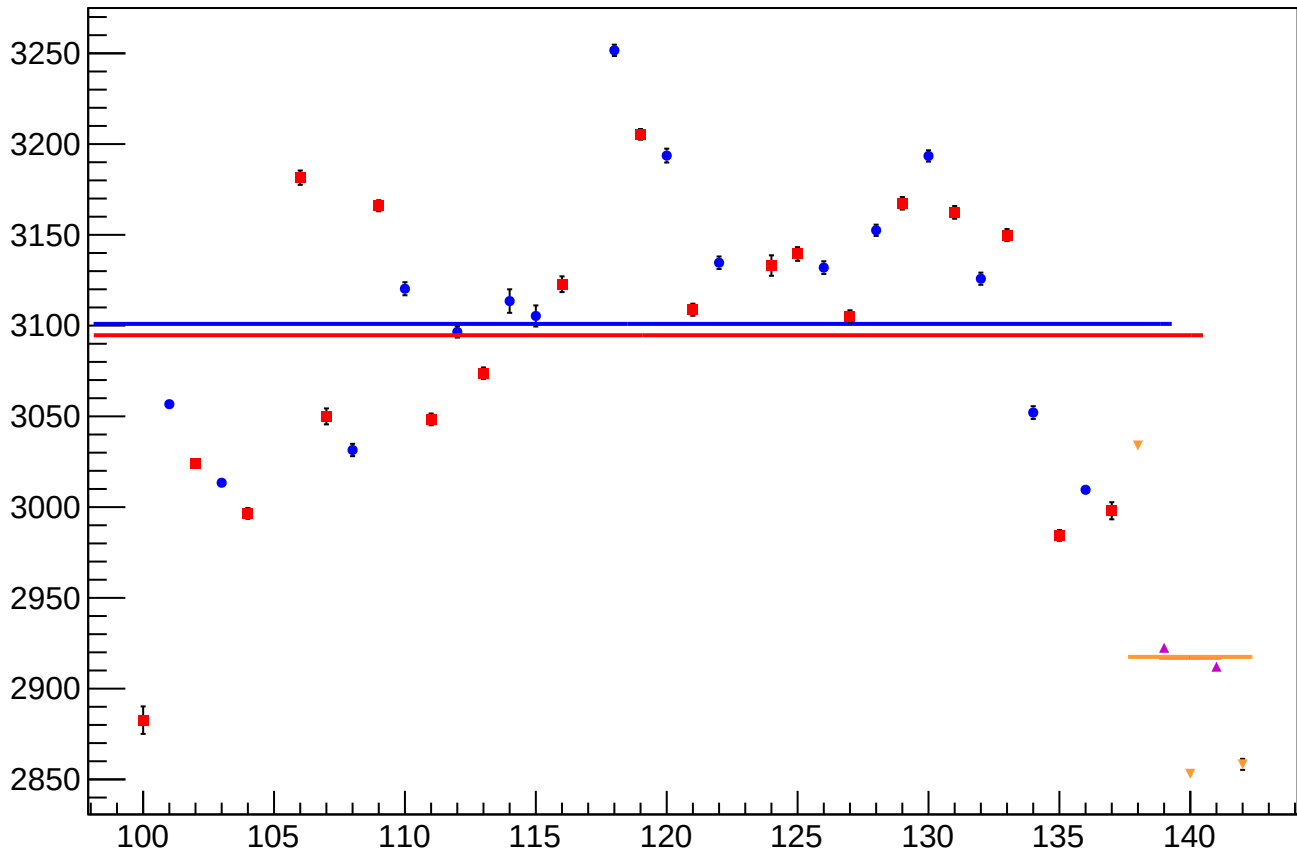
Right: -6.906 ± 0.806 $\chi^2/\text{NDF}: 818.8/34$

In: -15.916 ± 1.022 $\chi^2/\text{NDF}: 319.1/17$

Out: 5.733 ± 0.987 $\chi^2/\text{NDF}: 316.6/21$

All: -4.709 ± 0.710 $\chi^2/\text{NDF}: 867.8/39$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3100.940 $\pm$ 0.815 χ^2 /NDF: 7893.7/15

Left Out: 2917.492 $\pm$ 1.436 χ^2 /NDF:3536.2/2

Right Out: 3094.688 $\pm$ 0.798 χ^2 /NDF: 8584.4/18

Left In: 2917.187 $\pm$ 1.568 χ^2 /NDF:11.0/1

Left: 2917.353 $\pm$ 1.059 χ^2 /NDF: 3547.3/4

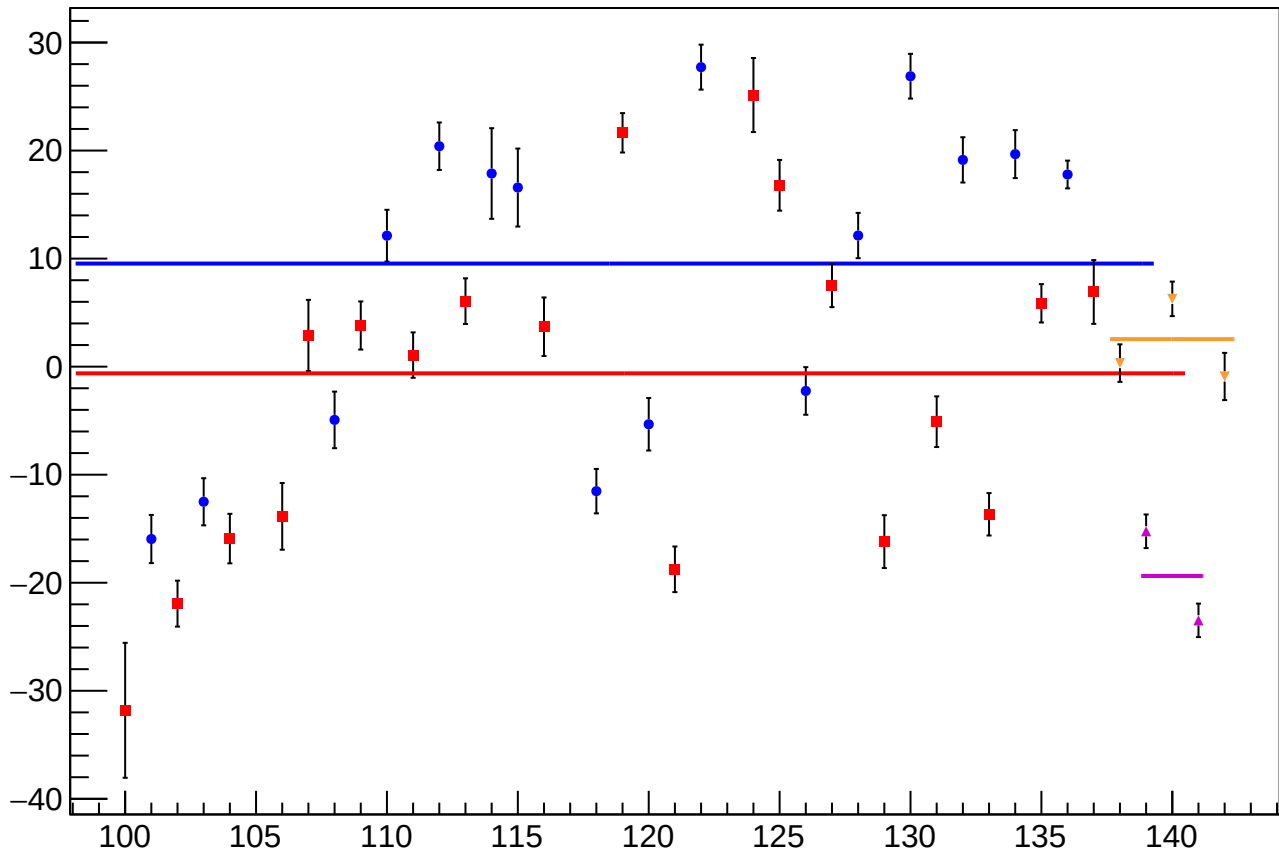
Right: 3097.751 $\pm$ 0.570 χ^2 /NDF: 16508.2/34

In: 3061.888 $\pm$ 0.723 χ^2 /NDF:18720.6/17

Out: 3052.882 $\pm$ 0.698 χ^2 /NDF:23748.1/21

All: 3057.226 $\pm$ 0.502 χ^2 /NDF: 42549.0/39

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.540 $\pm$ 0.541 χ^2/NDF : 698.7/15

Left Out: 2.548 $\pm$ 1.035 χ^2/NDF : 9.6/2

Right Out: -0.620 $\pm$ 0.534 χ^2/NDF : 665.8/18

Left In: -19.373 $\pm$ 1.099 χ^2/NDF : 14.1/1

Left: -7.762 $\pm$ 0.754 χ^2/NDF : 234.4/4

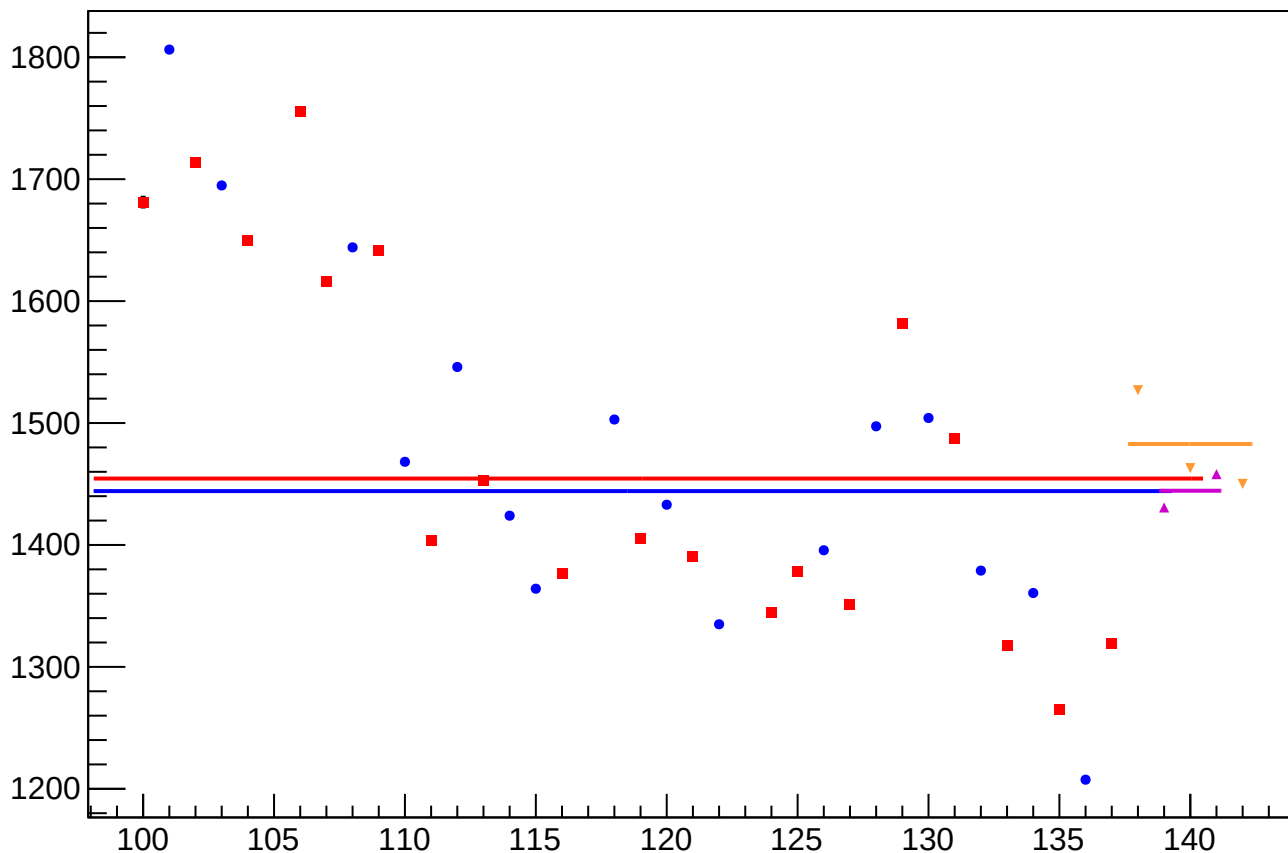
Right: 4.392 $\pm$ 0.380 χ^2/NDF : 1543.1/34

In: 3.894 $\pm$ 0.486 χ^2/NDF : 1269.9/17

Out: 0.046 $\pm$ 0.475 χ^2/NDF : 682.8/21

All: 1.927 $\pm$ 0.339 χ^2/NDF : 1984.9/39

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1444.188 $\pm$ 0.383 χ^2/NDF : 180147.9/15

Left Out: 1482.805 $\pm$ 0.732 χ^2/NDF : 2045.4/2

Right Out: 1454.470 $\pm$ 0.378 χ^2/NDF : 142772.9/18

Left In: 1444.473 $\pm$ 0.777 χ^2/NDF : 309.1/1

Left: 1464.777 $\pm$ 0.533 χ^2/NDF : 3643.6/4

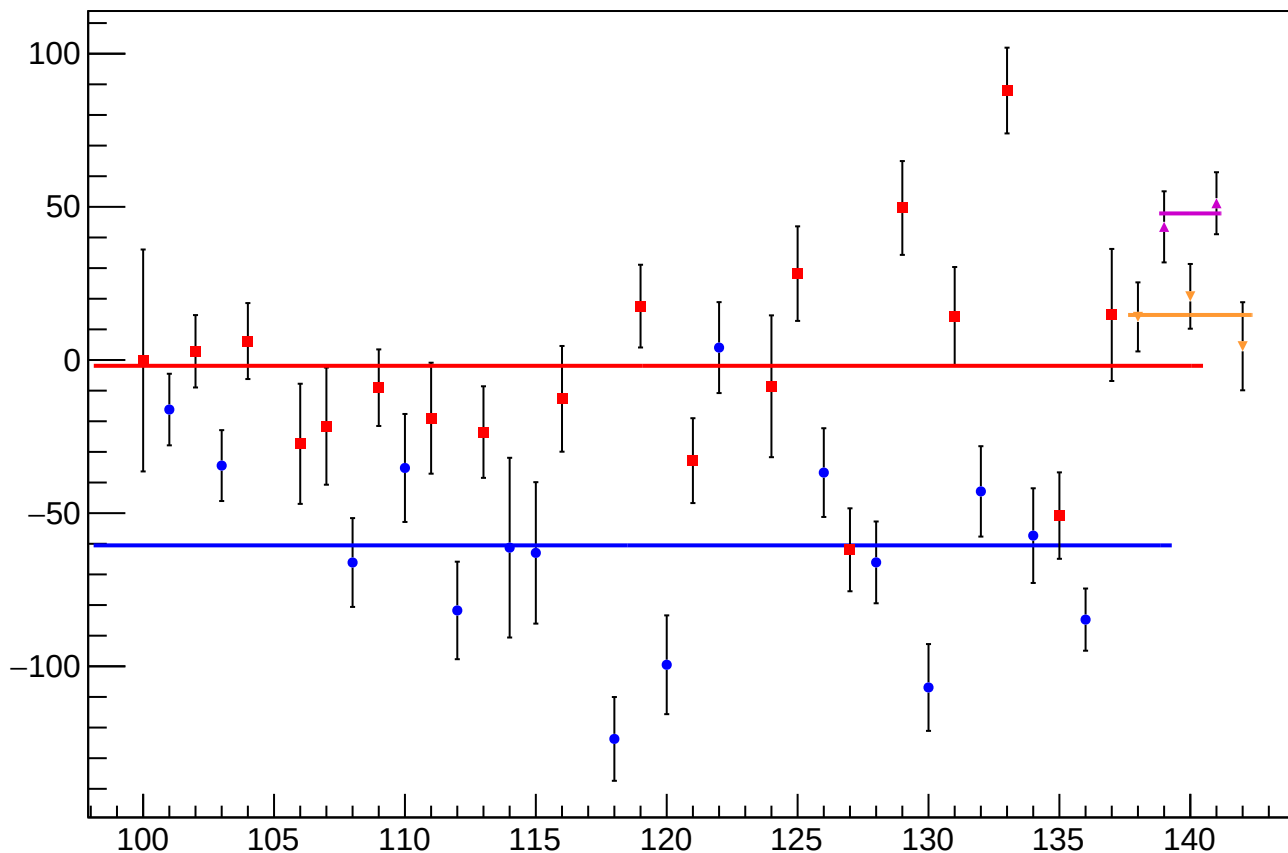
Right: 1449.398 $\pm$ 0.269 χ^2/NDF : 323286.5/34

In: 1444.244 $\pm$ 0.343 χ^2/NDF : 180457.2/17

Out: 1460.425 $\pm$ 0.336 χ^2/NDF : 146001.2/21

All: 1452.518 $\pm$ 0.240 χ^2/NDF : 327594.0/39

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -60.516 ± 3.596 $\chi^2/\text{NDF}: 90.3/15$

Left Out: 14.708 ± 6.795 $\chi^2/\text{NDF}: 0.8/2$

Right Out: -1.894 ± 3.543 $\chi^2/\text{NDF}: 103.8/18$

Left In: 47.853 ± 7.628 $\chi^2/\text{NDF}: 0.3/1$

Left: 29.371 ± 5.074 $\chi^2/\text{NDF}: 11.6/4$

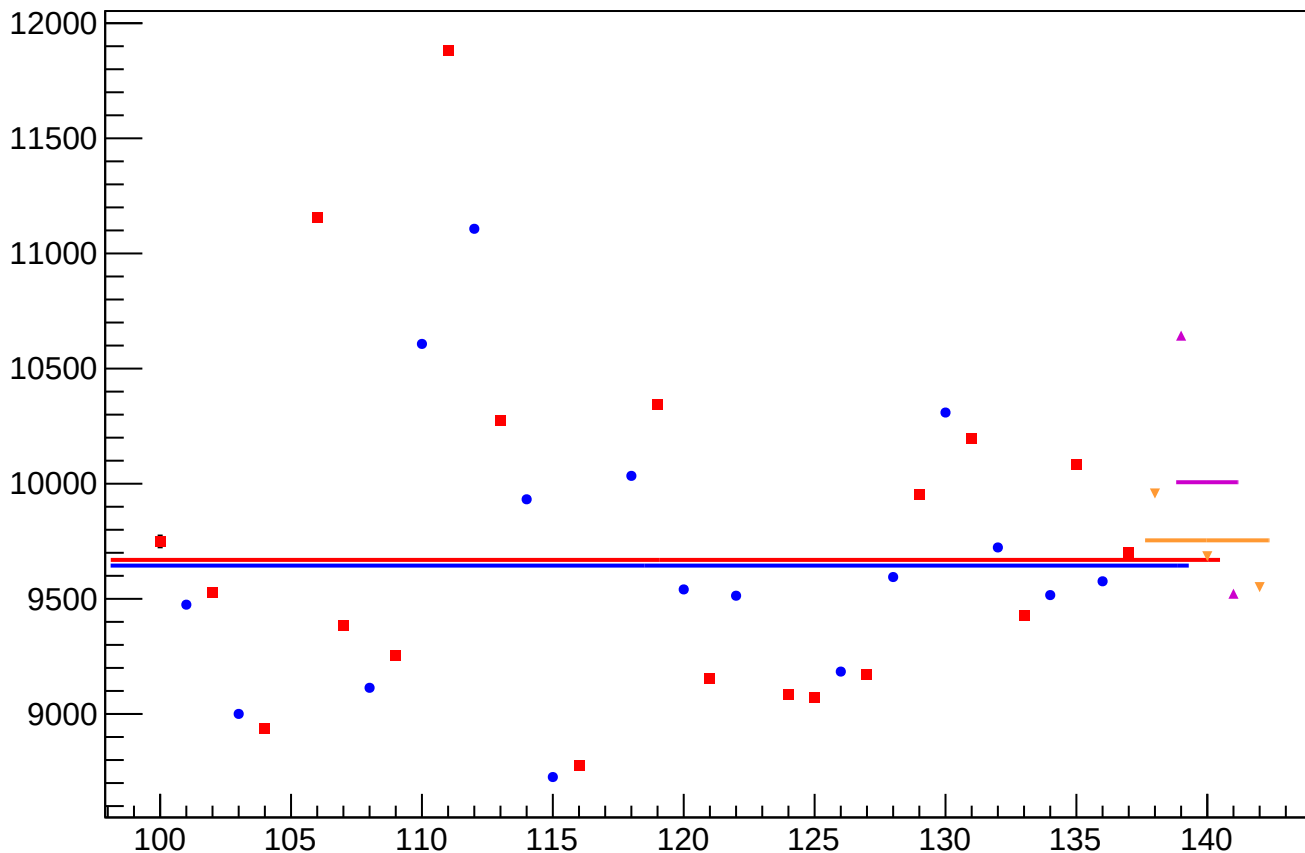
Right: -30.766 ± 2.524 $\chi^2/\text{NDF}: 329.0/34$

In: -40.811 ± 3.253 $\chi^2/\text{NDF}: 255.7/17$

Out: 1.655 ± 3.141 $\chi^2/\text{NDF}: 109.4/21$

All: -18.838 ± 2.260 $\chi^2/\text{NDF}: 453.3/39$

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9644.396 $\pm$ 2.543 χ^2 /NDF: 44101.6/15

Left Out: 9754.033 $\pm$ 4.805 χ^2 /NDF:1136.7/2

Right Out: 9669.136 $\pm$ 2.505 χ^2 /NDF: 79878.1/18

Left In: 10006.467 $\pm$ 5.394 χ^2 /NDF:10592.3/1

Left: 9865.708 $\pm$ 3.588 χ^2 /NDF: 12950.3/4

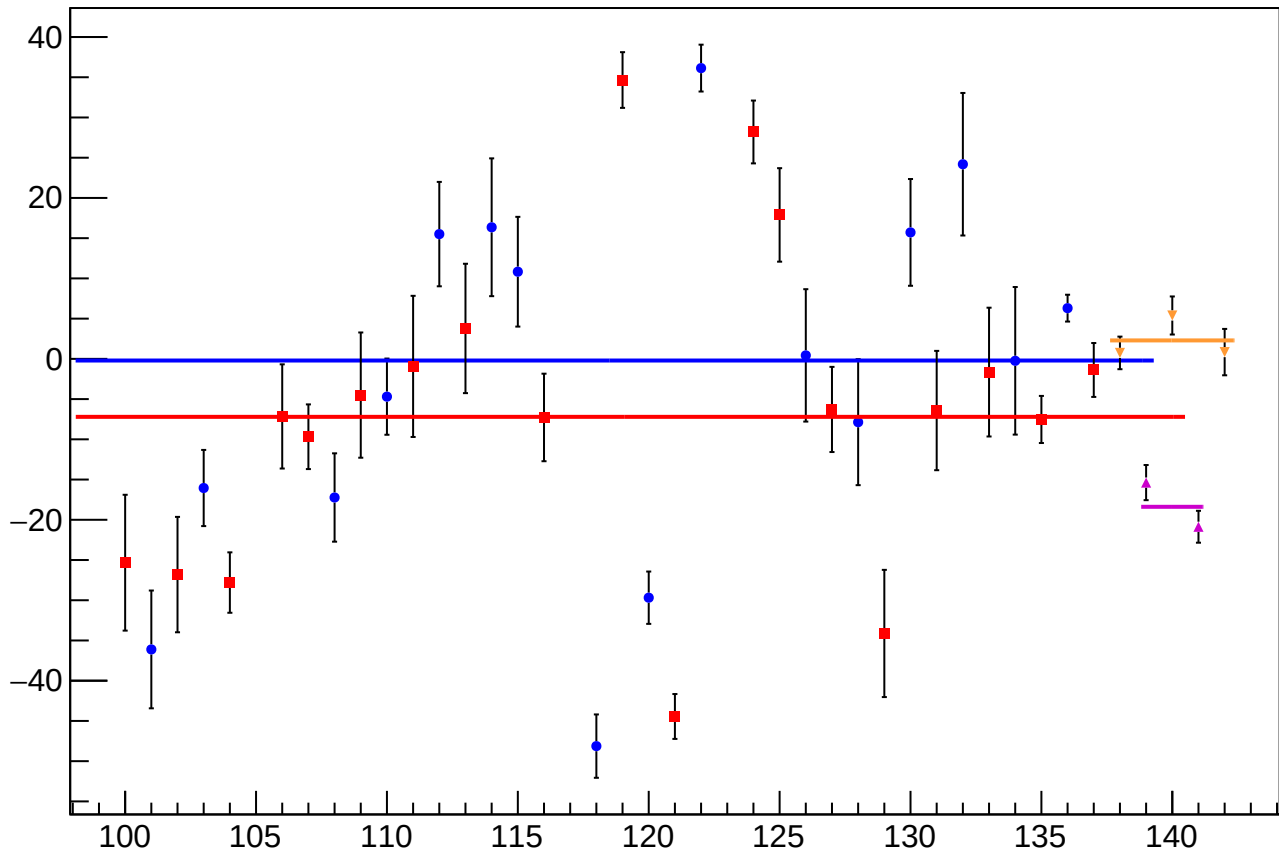
Right: 9656.951 $\pm$ 1.785 χ^2 /NDF: 124027.7/34

In: 9710.232 $\pm$ 2.300 χ^2 /NDF:58380.2/17

Out: 9687.283 $\pm$ 2.221 χ^2 /NDF:81260.3/21

All: 9698.358 $\pm$ 1.598 χ^2 /NDF: 139692.0/39

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: -0.206 ± 1.045 χ^2/NDF : 473.7/15

Left Out: 2.292 ± 1.357 χ^2/NDF : 2.6/2

Right Out: -7.206 ± 1.074 χ^2/NDF : 485.6/18

Left In: -18.387 ± 1.468 χ^2/NDF : 3.5/1

Left: -7.237 ± 0.996 χ^2/NDF : 113.0/4

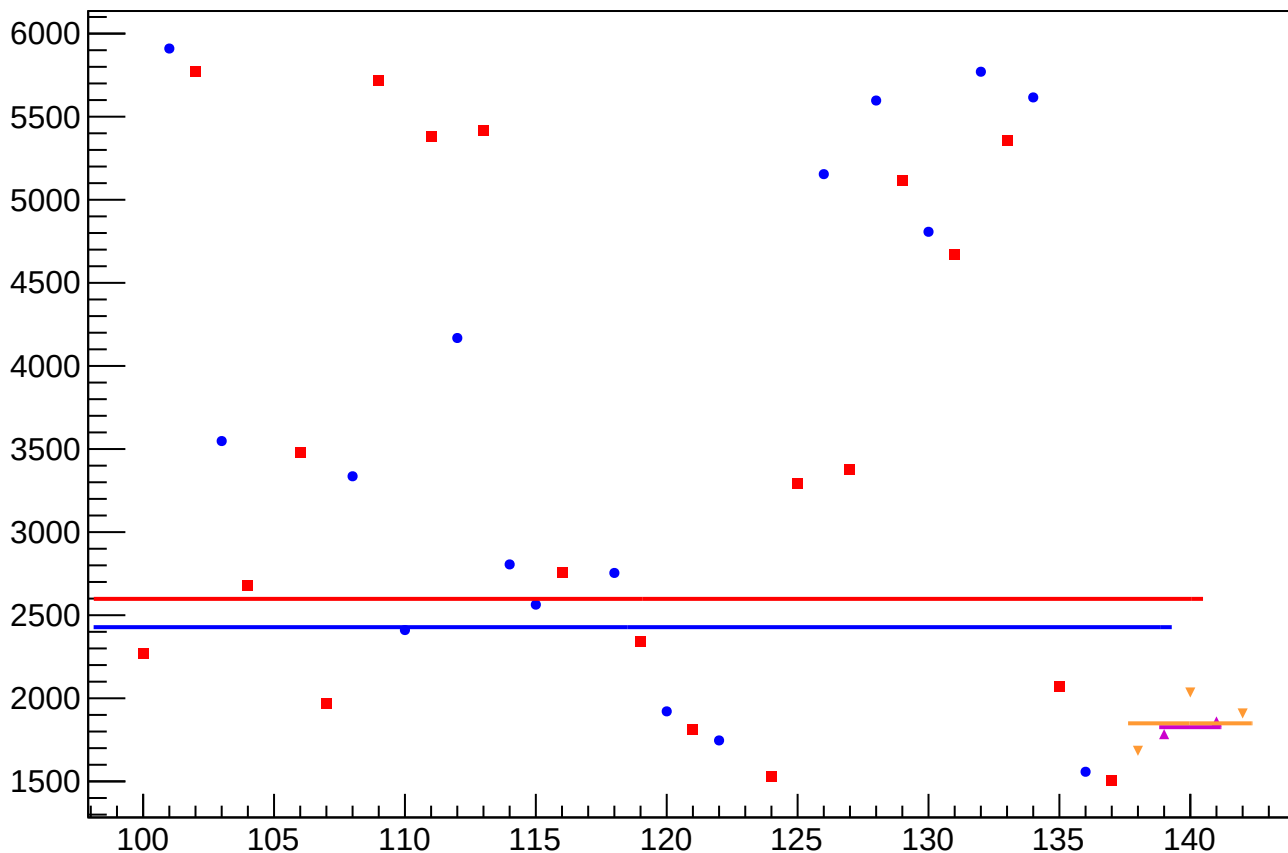
Right: -3.613 ± 0.749 χ^2/NDF : 981.2/34

In: -6.324 ± 0.851 χ^2/NDF : 579.0/17

Out: -3.549 ± 0.842 χ^2/NDF : 518.3/21

All: -4.921 ± 0.599 χ^2/NDF : 1102.7/39

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2428.080 ± 0.739 χ^2/NDF : 2815335.2/15

Left Out: 1849.343 ± 0.960 χ^2/NDF : 26472.3/2

Right Out: 2598.321 ± 0.759 χ^2/NDF : 2514932.7/18

Left In: 1826.272 ± 1.038 χ^2/NDF : 1350.0/1

Left: 1838.712 ± 0.705 χ^2/NDF : 28088.7/4

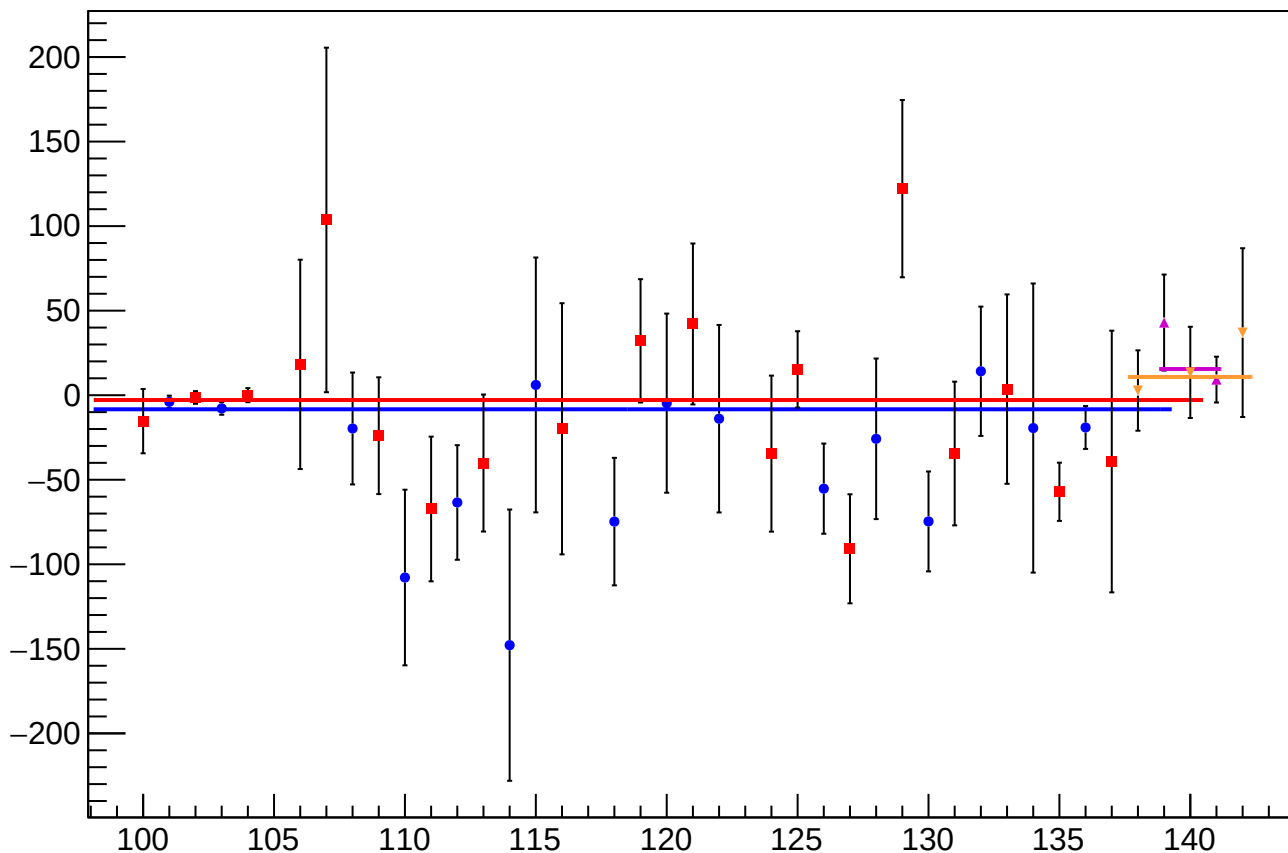
Right: 2510.930 ± 0.530 χ^2/NDF : 5356082.2/34

In: 2225.567 ± 0.602 χ^2/NDF : 3039742.0/17

Out: 2309.974 ± 0.595 χ^2/NDF : 2916126.9/21

All: 2268.245 ± 0.423 χ^2/NDF : 5965806.1/39

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.332 ± 2.499 $\chi^2/\text{NDF}: 23.4/15$

Left Out: 10.795 ± 16.793 $\chi^2/\text{NDF}: 0.4/2$

Right Out: -2.848 ± 2.640 $\chi^2/\text{NDF}: 32.6/18$

Left In: 15.489 ± 12.229 $\chi^2/\text{NDF}: 1.1/1$

Left: 13.862 ± 9.886 $\chi^2/\text{NDF}: 1.6/4$

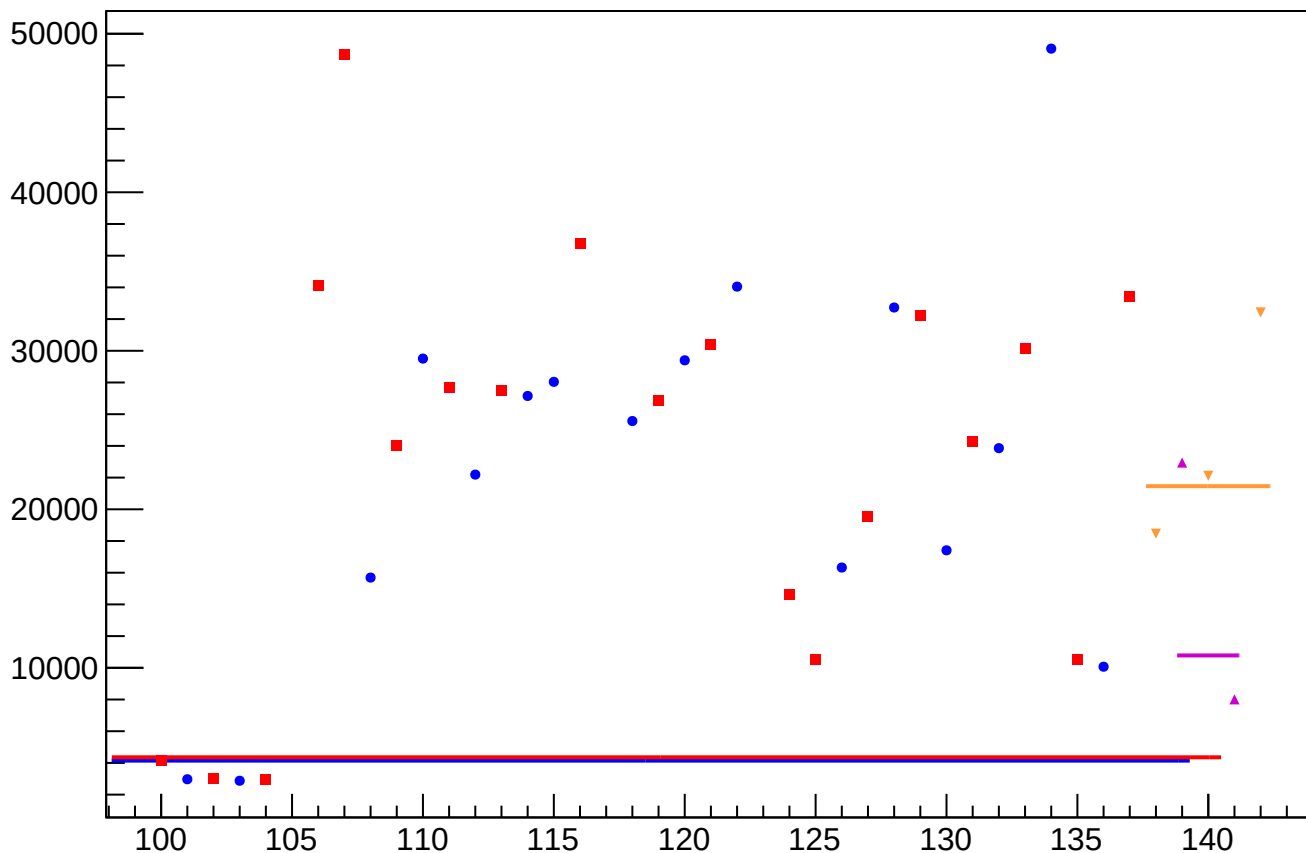
Right: -5.740 ± 1.815 $\chi^2/\text{NDF}: 58.3/34$

In: -7.377 ± 2.449 $\chi^2/\text{NDF}: 28.2/17$

Out: -2.519 ± 2.608 $\chi^2/\text{NDF}: 33.7/21$

All: -5.101 ± 1.785 $\chi^2/\text{NDF}: 63.7/39$

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4145.795+/-1.767 χ^2/NDF : 6836950.5/15

Left Out: 21458.540+/-11.874 χ^2/NDF : 129479.7/2

Right Out: 4354.437+/-1.866 χ^2/NDF : 7624762.5/18

Left In: 10780.135+/-8.648 χ^2/NDF : 450689.6/1

Left: 14480.837+/-6.990 χ^2/NDF : 1108625.5/4

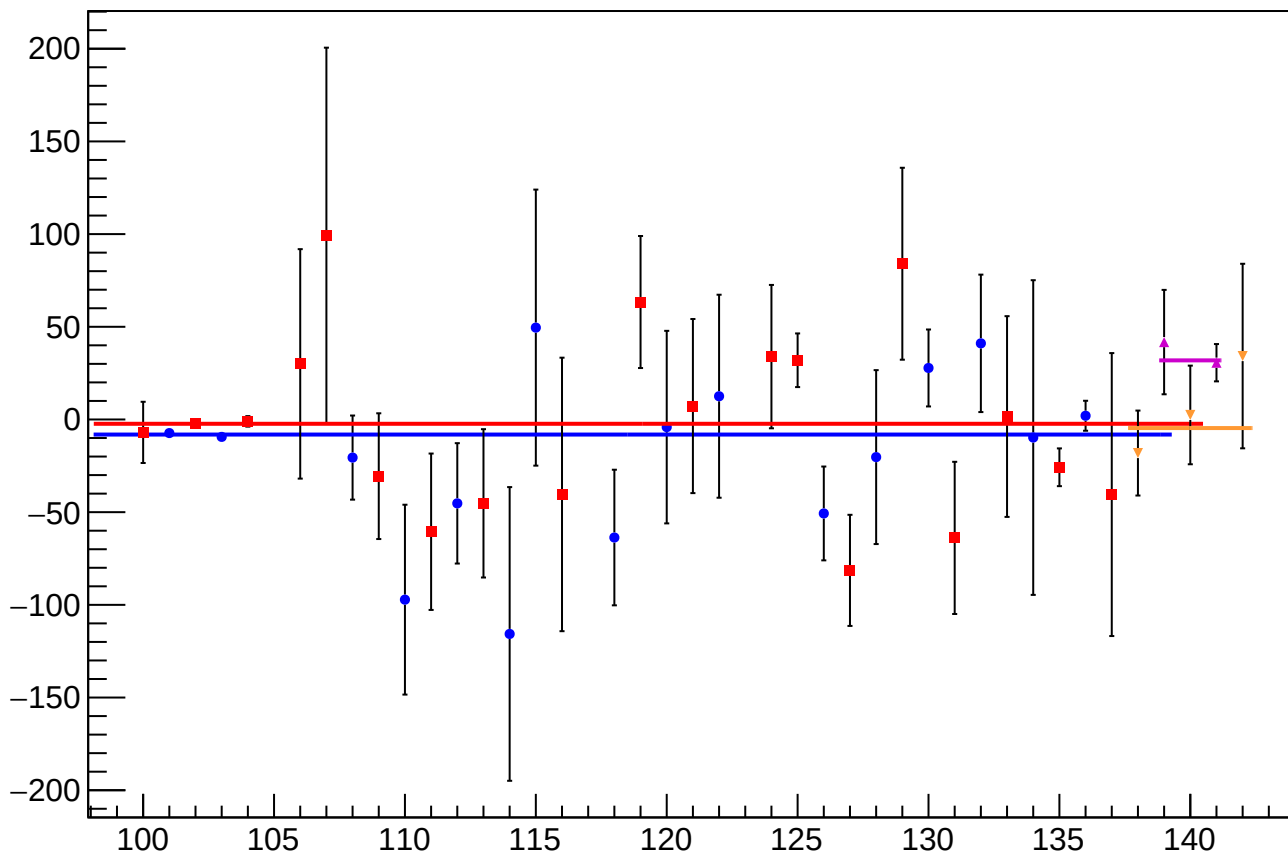
Right: 4244.429+/-1.283 χ^2/NDF : 14468301.6/34

In: 4411.792+/-1.732 χ^2/NDF : 7852632.5/17

Out: 4766.843+/-1.844 χ^2/NDF : 9779083.1/21

All: 4578.178+/-1.262 χ^2/NDF : 17651419.3/3

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -8.132 ± 1.720 $\chi^2/\text{NDF}: 19.1/15$

Left Out: -4.632 ± 16.393 $\chi^2/\text{NDF}: 1.0/2$

Right Out: -2.325 ± 1.822 $\chi^2/\text{NDF}: 33.1/18$

Left In: 31.883 ± 9.477 $\chi^2/\text{NDF}: 0.1/1$

Left: 22.736 ± 8.204 $\chi^2/\text{NDF}: 4.9/4$

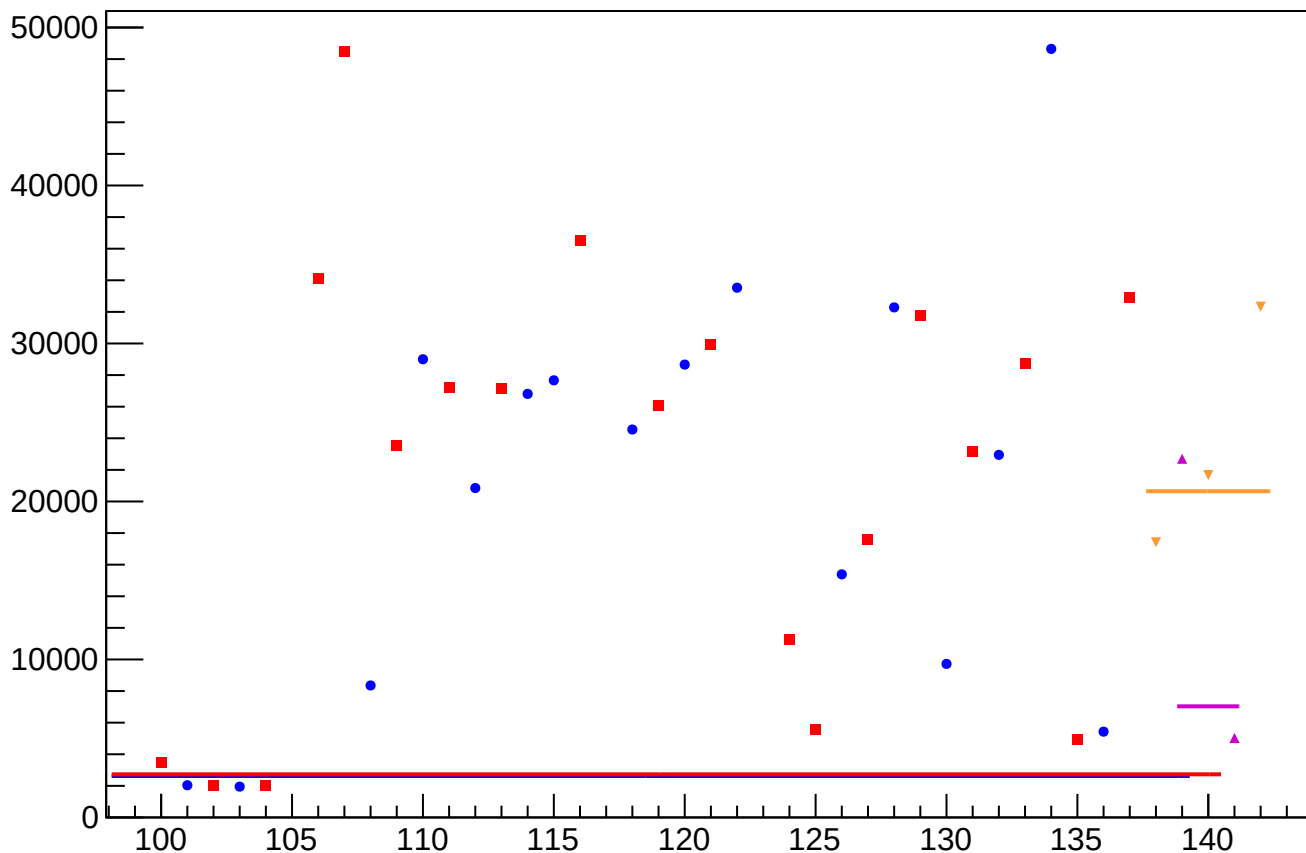
Right: -5.394 ± 1.251 $\chi^2/\text{NDF}: 57.5/34$

In: -6.856 ± 1.693 $\chi^2/\text{NDF}: 36.5/17$

Out: -2.353 ± 1.811 $\chi^2/\text{NDF}: 34.1/21$

All: -4.756 ± 1.236 $\chi^2/\text{NDF}: 73.9/39$

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2626.430 ± 1.216 $\chi^2/\text{NDF}: 6780884.6/15$

Left Out: 20647.782 ± 11.592 $\chi^2/\text{NDF}: 152969.2/2$

Right Out: 2730.235 ± 1.288 $\chi^2/\text{NDF}: 7985984.4/18$

Left In: 7033.562 ± 6.701 $\chi^2/\text{NDF}: 698656.8/1$

Left: 10443.797 ± 5.801 $\chi^2/\text{NDF}: 1885535.4/4$

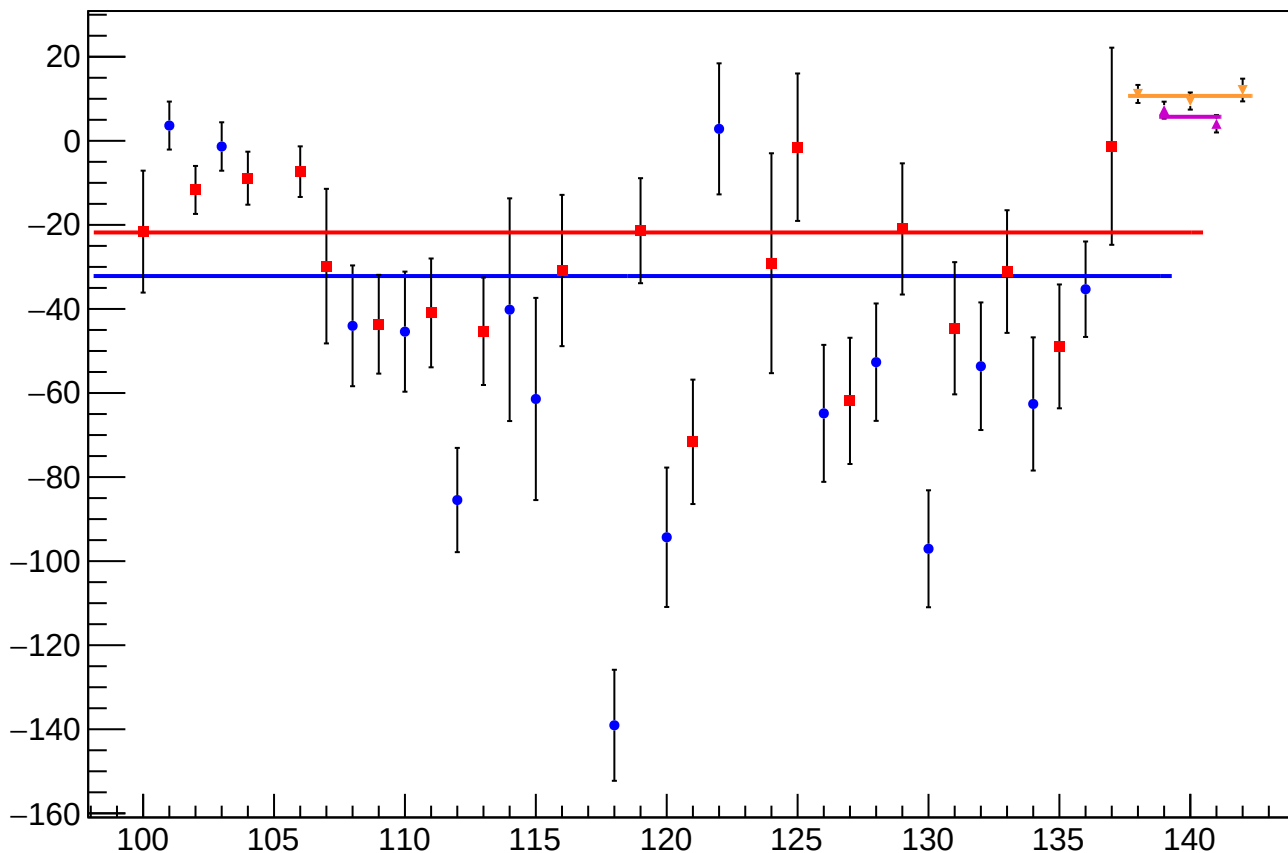
Right: 2675.367 ± 0.884 $\chi^2/\text{NDF}: 14770301.6/34$

In: 2767.036 ± 1.197 $\chi^2/\text{NDF}: 7898273.2/17$

Out: 2948.796 ± 1.280 $\chi^2/\text{NDF}: 10499142.8/21$

All: 2851.812 ± 0.874 $\chi^2/\text{NDF}: 18408171.4/3$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -32.171 ± 2.842 χ^2/NDF : 207.8/15

Left Out: 10.686 ± 1.297 χ^2/NDF : 0.7/2

Right Out: -21.801 ± 2.557 χ^2/NDF : 49.1/18

Left In: 5.720 ± 1.444 χ^2/NDF : 1.3/1

Left: 8.469 ± 0.965 χ^2/NDF : 8.5/4

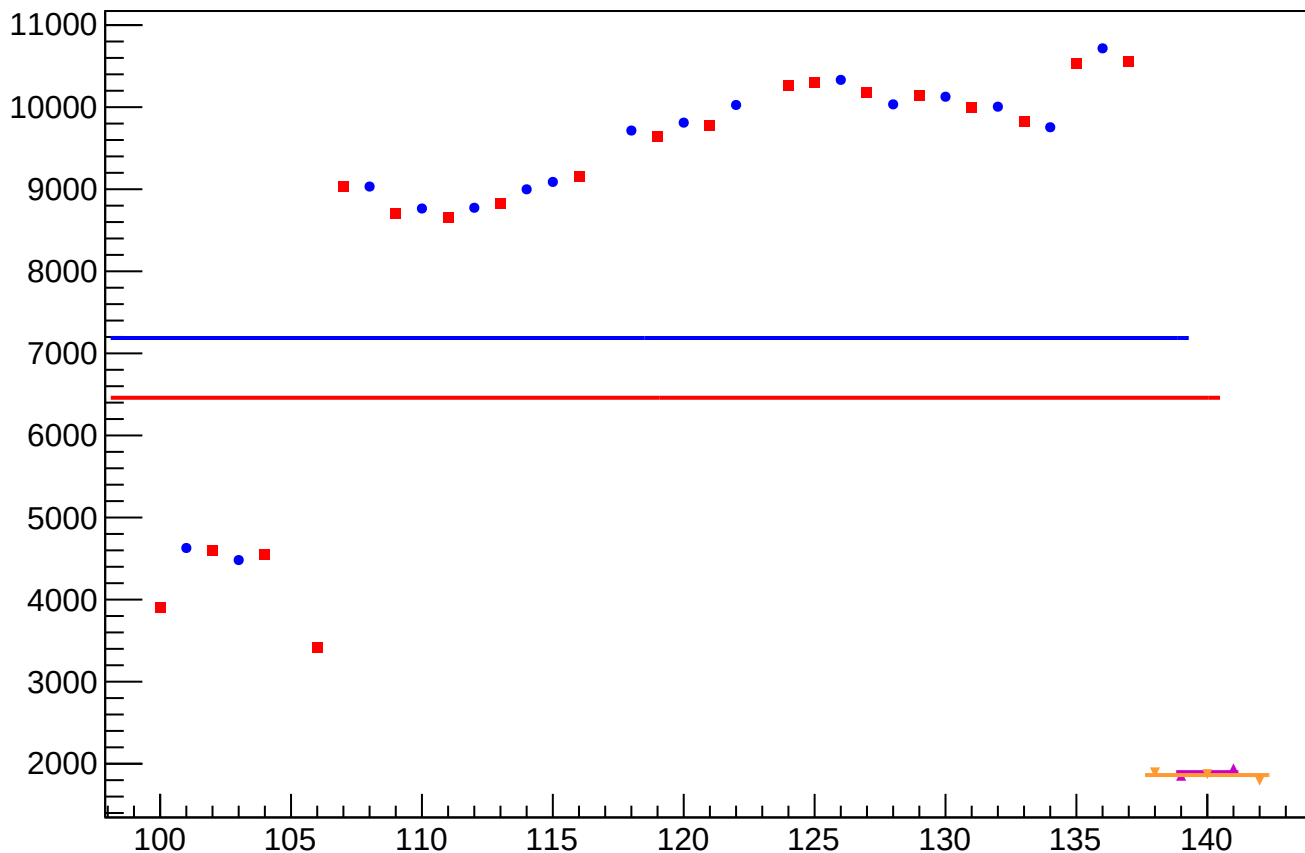
Right: -26.441 ± 1.901 χ^2/NDF : 264.2/34

In: -2.057 ± 1.287 χ^2/NDF : 350.3/17

Out: 4.040 ± 1.157 χ^2/NDF : 178.1/21

All: 1.317 ± 0.860 χ^2/NDF : 540.9/39

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7187.494+/-2.009 χ^2/NDF : 1705887.0/15

Left Out: 1862.341+/-0.917 χ^2/NDF : 1758.7/2

Right Out: 6459.323+/-1.808 χ^2/NDF : 2276337.9/18

Left In: 1897.999+/-1.021 χ^2/NDF : 1914.7/1

Left: 1878.260+/-0.682 χ^2/NDF : 4348.4/4

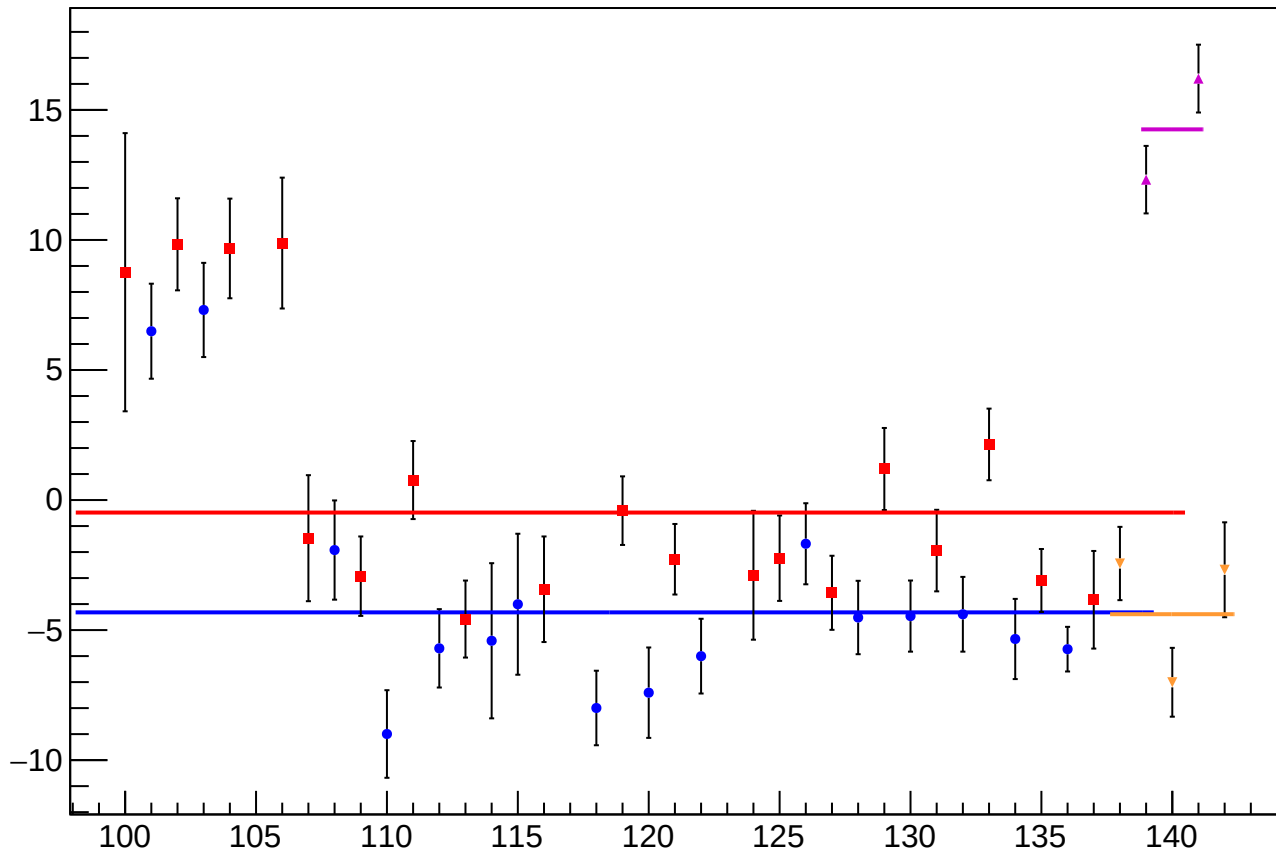
Right: 6785.150+/-1.344 χ^2/NDF : 4054781.5/34

In: 2983.655+/-0.910 χ^2/NDF : 7214685.2/17

Out: 2802.734+/-0.818 χ^2/NDF : 7418607.5/21

All: 2883.540+/-0.608 χ^2/NDF : 14655147.9/3

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.319 ± 0.380 χ^2/NDF : 103.7/15

Left Out: -4.389 ± 0.853 χ^2/NDF : 6.7/2

Right Out: -0.481 ± 0.379 χ^2/NDF : 117.2/18

Left In: 14.252 ± 0.920 χ^2/NDF : 4.5/1

Left: 4.226 ± 0.625 χ^2/NDF : 232.0/4

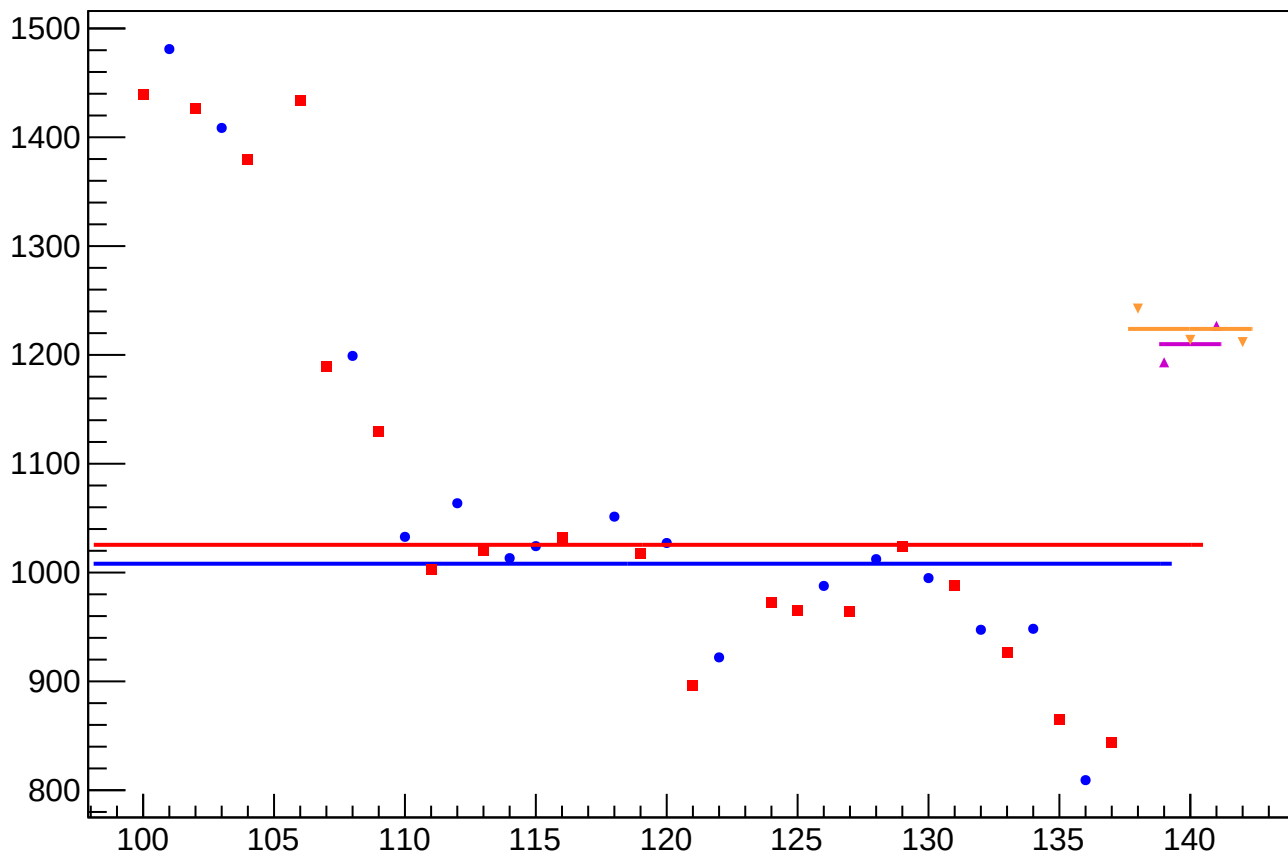
Right: -2.394 ± 0.268 χ^2/NDF : 272.1/34

In: -1.615 ± 0.351 χ^2/NDF : 456.3/17

Out: -1.124 ± 0.346 χ^2/NDF : 141.4/21

All: -1.367 ± 0.246 χ^2/NDF : 598.7/39

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1008.116 ± 0.269 $\chi^2/\text{NDF}: 378836.2/15$

Left Out: 1223.899 ± 0.603 $\chi^2/\text{NDF}: 555.0/2$

Right Out: 1025.486 ± 0.268 $\chi^2/\text{NDF}: 345991.2/18$

Left In: 1209.896 ± 0.651 $\chi^2/\text{NDF}: 664.6/1$

Left: 1217.427 ± 0.442 $\chi^2/\text{NDF}: 1468.8/4$

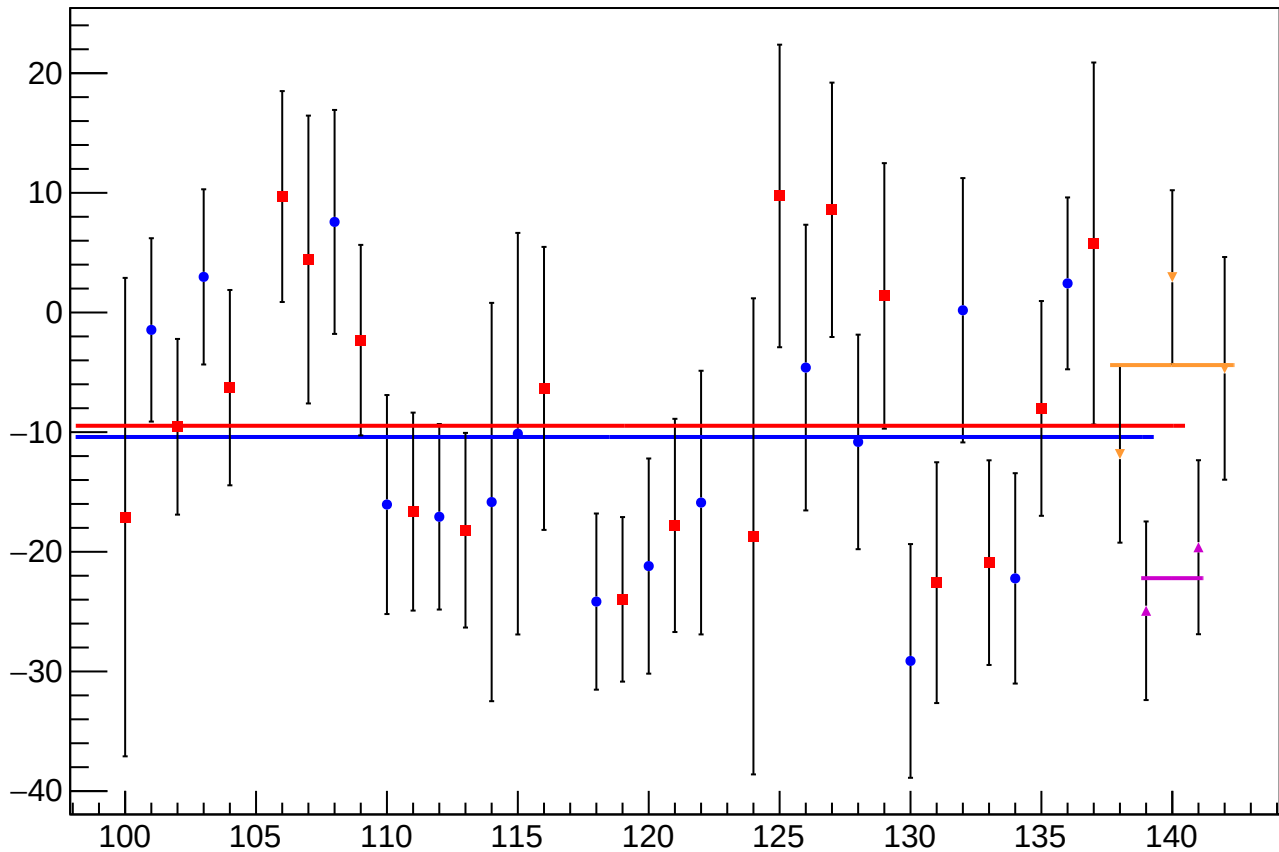
Right: 1016.826 ± 0.190 $\chi^2/\text{NDF}: 726925.8/34$

In: 1037.491 ± 0.248 $\chi^2/\text{NDF}: 461708.6/17$

Out: 1058.160 ± 0.245 $\chi^2/\text{NDF}: 436974.7/21$

All: 1047.972 ± 0.174 $\chi^2/\text{NDF}: 902199.7/39$

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -10.404 ± 2.280 χ^2/NDF : 24.6/15

Left Out: -4.394 ± 4.531 χ^2/NDF : 2.0/2

Right Out: -9.467 ± 2.191 χ^2/NDF : 25.4/18

Left In: -22.203 ± 5.208 χ^2/NDF : 0.3/1

Left: -12.066 ± 3.418 χ^2/NDF : 8.9/4

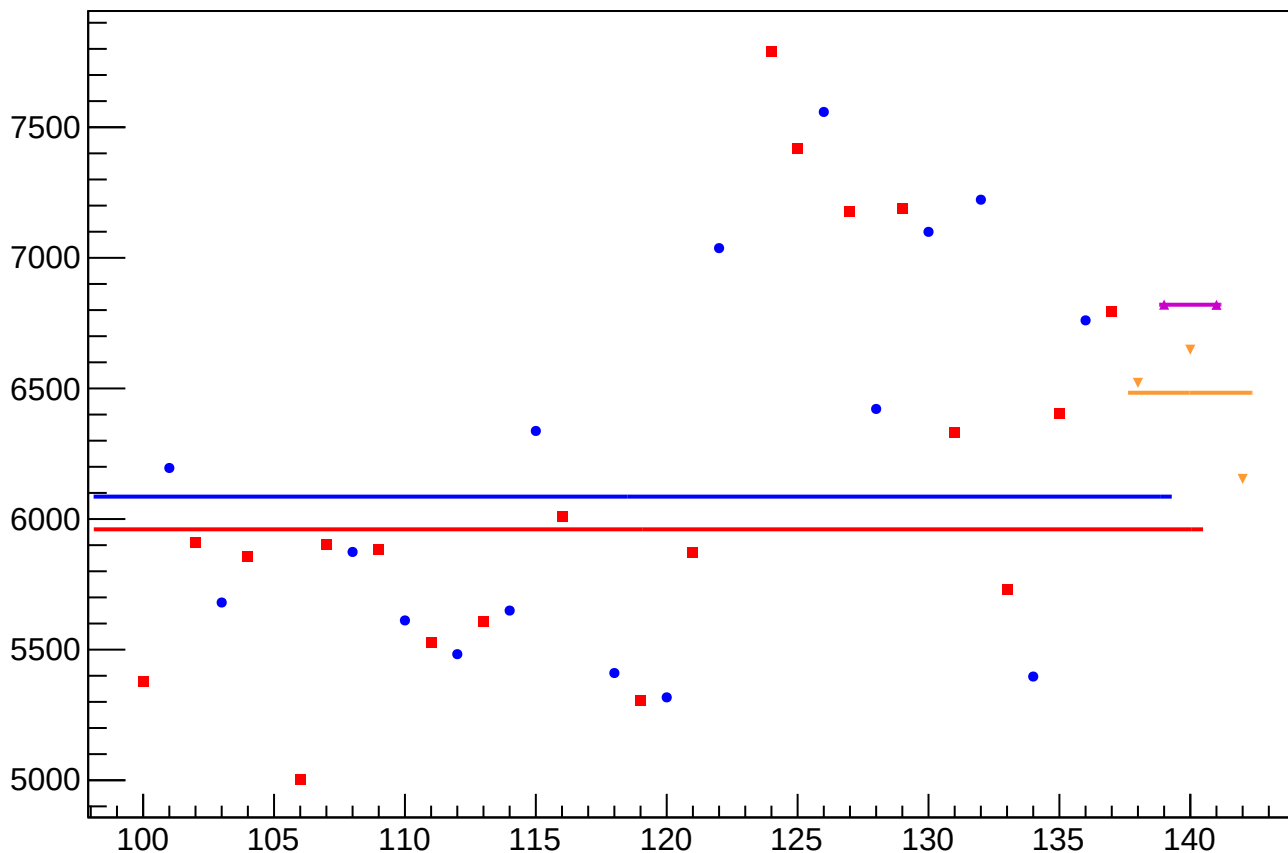
Right: -9.917 ± 1.580 χ^2/NDF : 50.1/34

In: -12.301 ± 2.089 χ^2/NDF : 29.2/17

Out: -8.505 ± 1.972 χ^2/NDF : 28.4/21

All: -10.295 ± 1.434 χ^2/NDF : 59.3/39

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 6085.873 +/- 1.612 χ^2/NDF : 179118.8/15

Left Out: 6483.498 +/- 3.204 χ^2/NDF : 3594.1/2

Right Out: 5960.613 +/- 1.549 χ^2/NDF : 162772.6/18

Left In: 6820.527 +/- 3.683 χ^2/NDF : 0.0/1

Left: 6628.680 +/- 2.417 χ^2/NDF : 8361.7/4

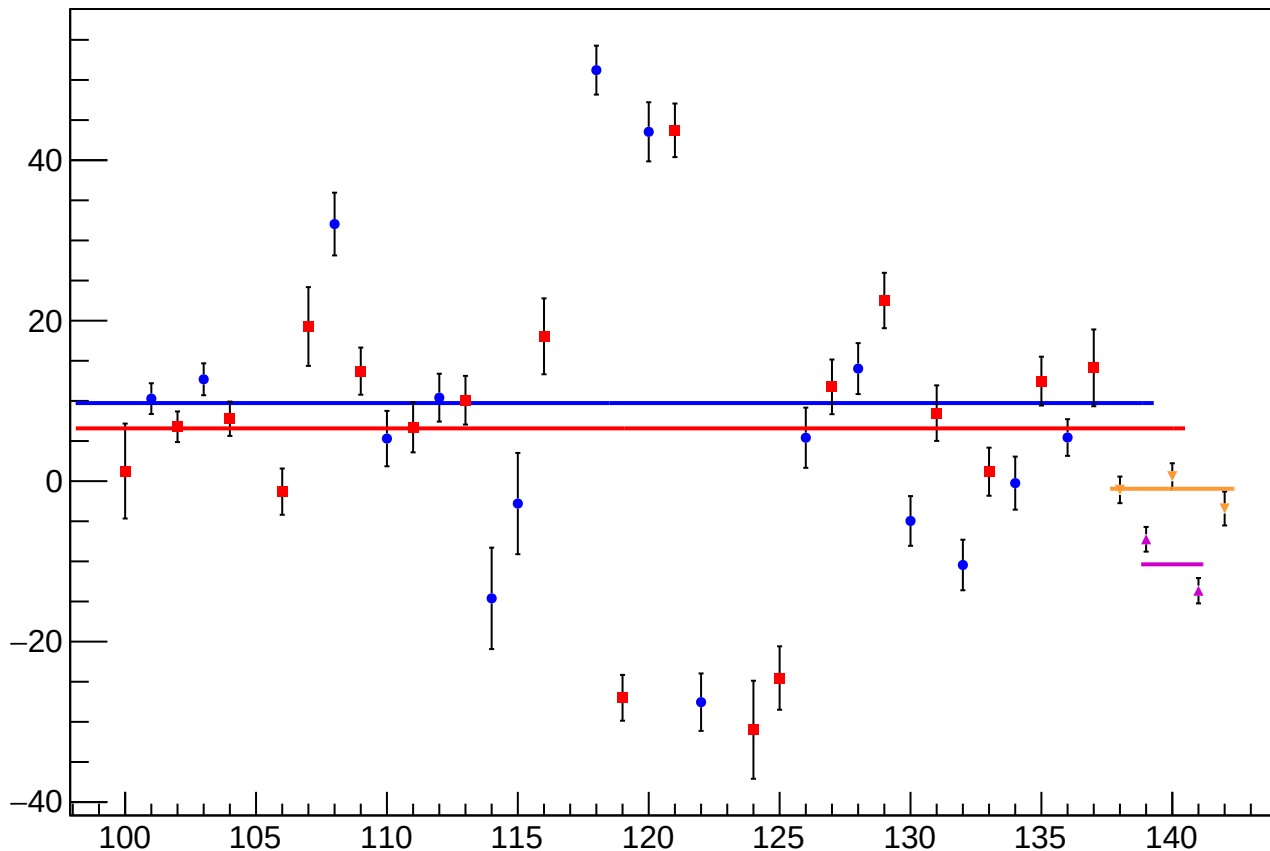
Right: 6020.747 +/- 1.117 χ^2/NDF : 345029.9/34

In: 6204.028 +/- 1.477 χ^2/NDF : 212514.5/17

Out: 6059.715 +/- 1.395 χ^2/NDF : 187957.7/21

All: 6127.744 +/- 1.014 χ^2/NDF : 405519.4/39

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.733 ± 0.755 $\chi^2/\text{NDF}: 512.4/15$

Left Out: -0.948 ± 1.015 $\chi^2/\text{NDF}: 2.3/2$

Right Out: 6.576 ± 0.730 $\chi^2/\text{NDF}: 423.8/18$

Left In: -10.368 ± 1.102 $\chi^2/\text{NDF}: 8.4/1$

Left: -5.271 ± 0.747 $\chi^2/\text{NDF}: 50.2/4$

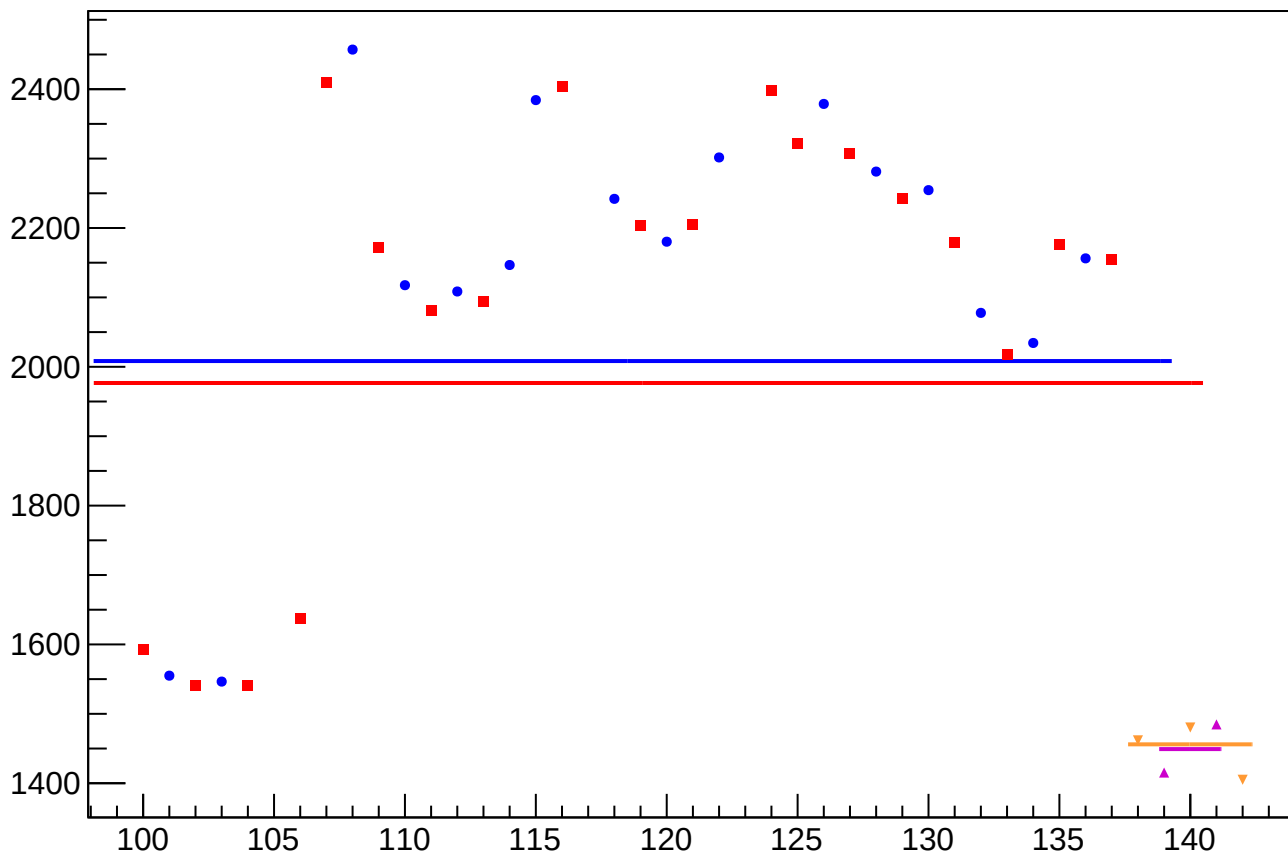
Right: 8.102 ± 0.525 $\chi^2/\text{NDF}: 945.2/34$

In: 3.315 ± 0.623 $\chi^2/\text{NDF}: 747.2/17$

Out: 4.010 ± 0.593 $\chi^2/\text{NDF}: 462.3/21$

All: 3.680 ± 0.429 $\chi^2/\text{NDF}: 1210.1/39$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2008.296 $\pm$ 0.534 χ^2 /NDF: 344387.2/15

Left Out: 1456.037 $\pm$ 0.718 χ^2 /NDF:1638.3/2

Right Out: 1976.677 $\pm$ 0.516 χ^2 /NDF: 365375.1/18

Left In: 1449.197 $\pm$ 0.779 χ^2 /NDF:1979.8/1

Left: 1452.898 $\pm$ 0.528 χ^2 /NDF: 3659.8/4

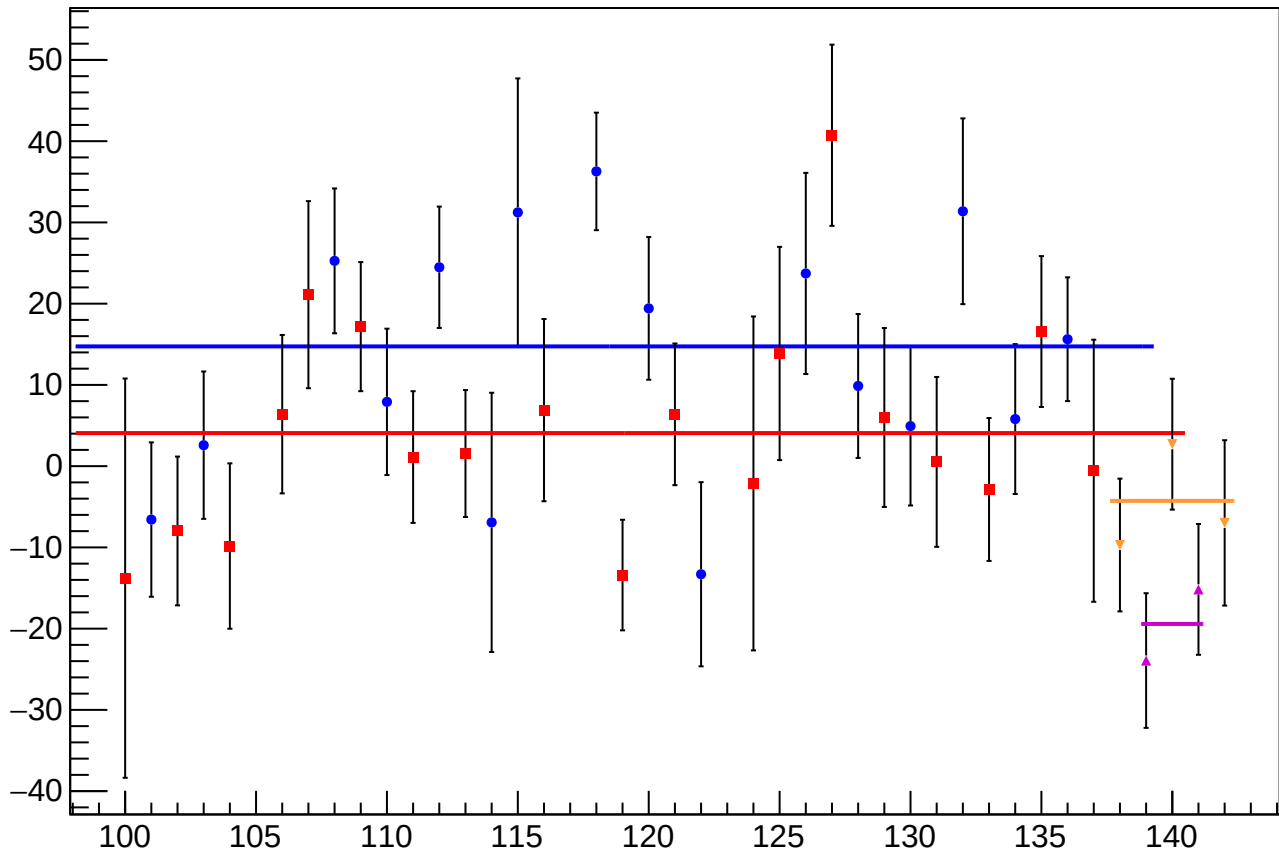
Right: 1991.963 $\pm$ 0.371 χ^2 /NDF: 711574.8/34

In: 1829.786 $\pm$ 0.440 χ^2 /NDF:696614.1/17

Out: 1799.136 $\pm$ 0.419 χ^2 /NDF:713613.0/21

All: 1813.705 $\pm$ 0.304 χ^2 /NDF: 1412767.9/39

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.739 $\pm$ 2.358 χ^2 /NDF: 33.5/15

Left Out: -4.272 $\pm$ 4.996 χ^2 /NDF:1.3/2

Right Out: 4.072 $\pm$ 2.274 χ^2 /NDF: 30.2/18

Left In: -19.422 $\pm$ 5.775 χ^2 /NDF:0.6/1

Left: -10.757 $\pm$ 3.778 χ^2 /NDF: 5.8/4

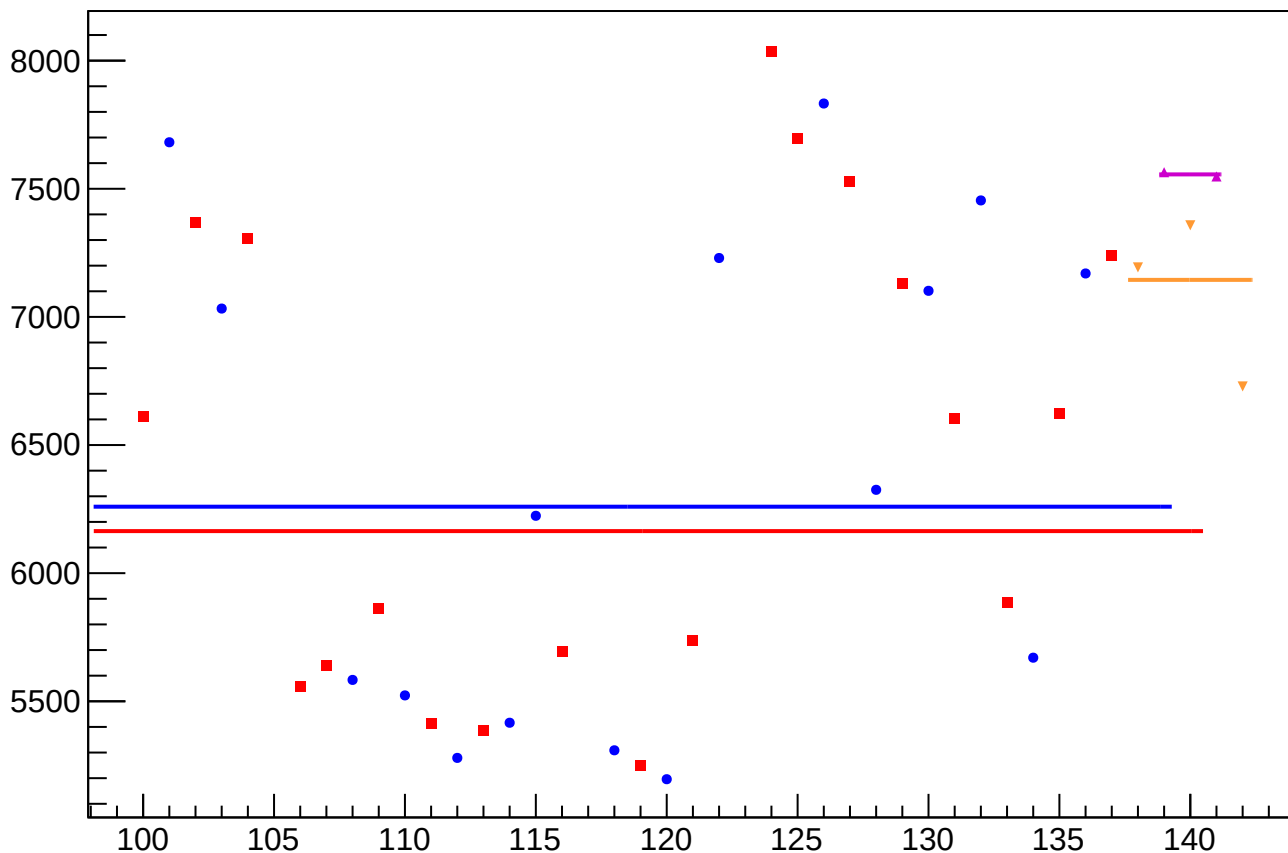
Right: 9.212 $\pm$ 1.637 χ^2 /NDF: 74.3/34

In: 9.859 $\pm$ 2.183 χ^2 /NDF:64.1/17

Out: 2.640 $\pm$ 2.069 χ^2 /NDF:33.7/21

All: 6.057 $\pm$ 1.502 χ^2 /NDF: 103.6/39

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6259.416 $\pm$ 1.667 χ^2/NDF : 308606.8/15

Left Out: 7144.503 $\pm$ 3.533 χ^2/NDF :4809.9/2

Right Out: 6164.140 $\pm$ 1.608 χ^2/NDF : 265058.6/18

Left In: 7556.124 $\pm$ 4.083 χ^2/NDF :4.1/1

Left: 7320.705 $\pm$ 2.672 χ^2/NDF : 10625.7/4

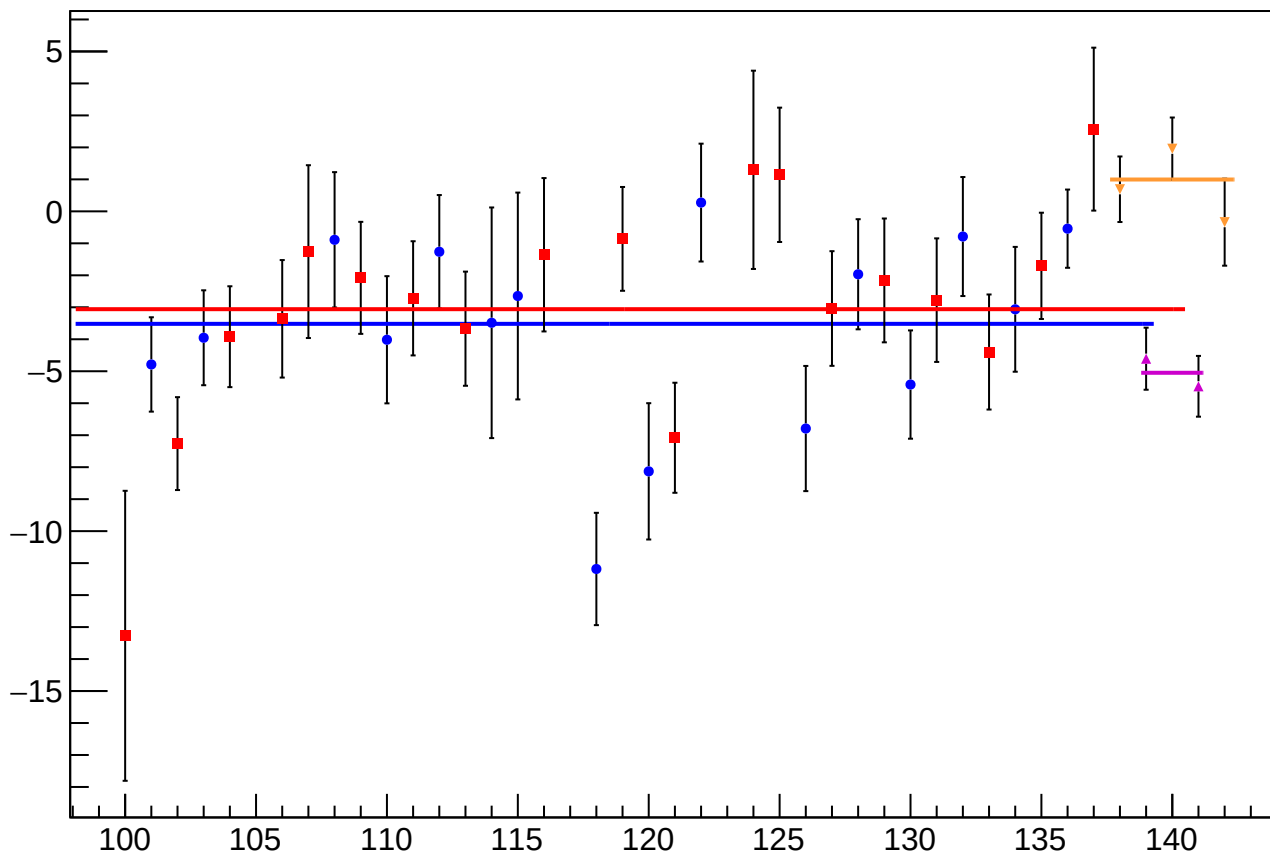
Right: 6210.053 $\pm$ 1.157 χ^2/NDF : 575357.6/34

In: 6444.674 $\pm$ 1.543 χ^2/NDF :395047.9/17

Out: 6332.363 $\pm$ 1.463 χ^2/NDF :333667.7/21

All: 6385.530 $\pm$ 1.062 χ^2/NDF : 731504.1/39

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.518 ± 0.452 $\chi^2/\text{NDF}: 45.1/15$

Left Out: 0.996 ± 0.627 $\chi^2/\text{NDF}: 2.0/2$

Right Out: -3.059 ± 0.438 $\chi^2/\text{NDF}: 34.8/18$

Left In: -5.048 ± 0.679 $\chi^2/\text{NDF}: 0.4/1$

Left: -1.787 ± 0.461 $\chi^2/\text{NDF}: 45.2/4$

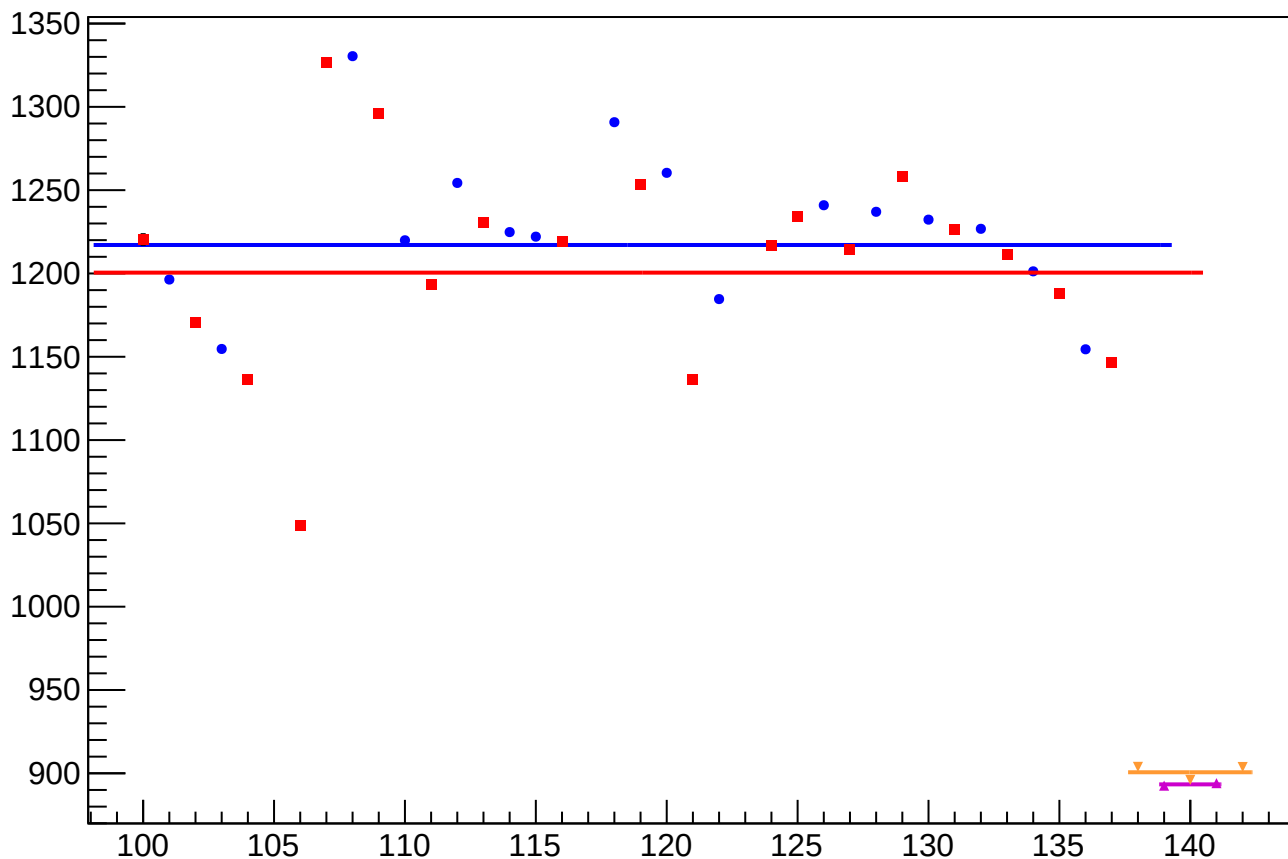
Right: -3.281 ± 0.315 $\chi^2/\text{NDF}: 80.4/34$

In: -3.988 ± 0.376 $\chi^2/\text{NDF}: 49.0/17$

Out: -1.729 ± 0.359 $\chi^2/\text{NDF}: 64.9/21$

All: -2.806 ± 0.260 $\chi^2/\text{NDF}: 132.8/39$

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1217.094 ± 0.320 χ^2/NDF : 21686.7/15

Left Out: 900.623 ± 0.444 χ^2/NDF : 74.2/2

Right Out: 1200.497 ± 0.310 χ^2/NDF : 37654.3/18

Left In: 893.355 ± 0.480 χ^2/NDF : 2.5/1

Left: 897.277 ± 0.326 χ^2/NDF : 200.3/4

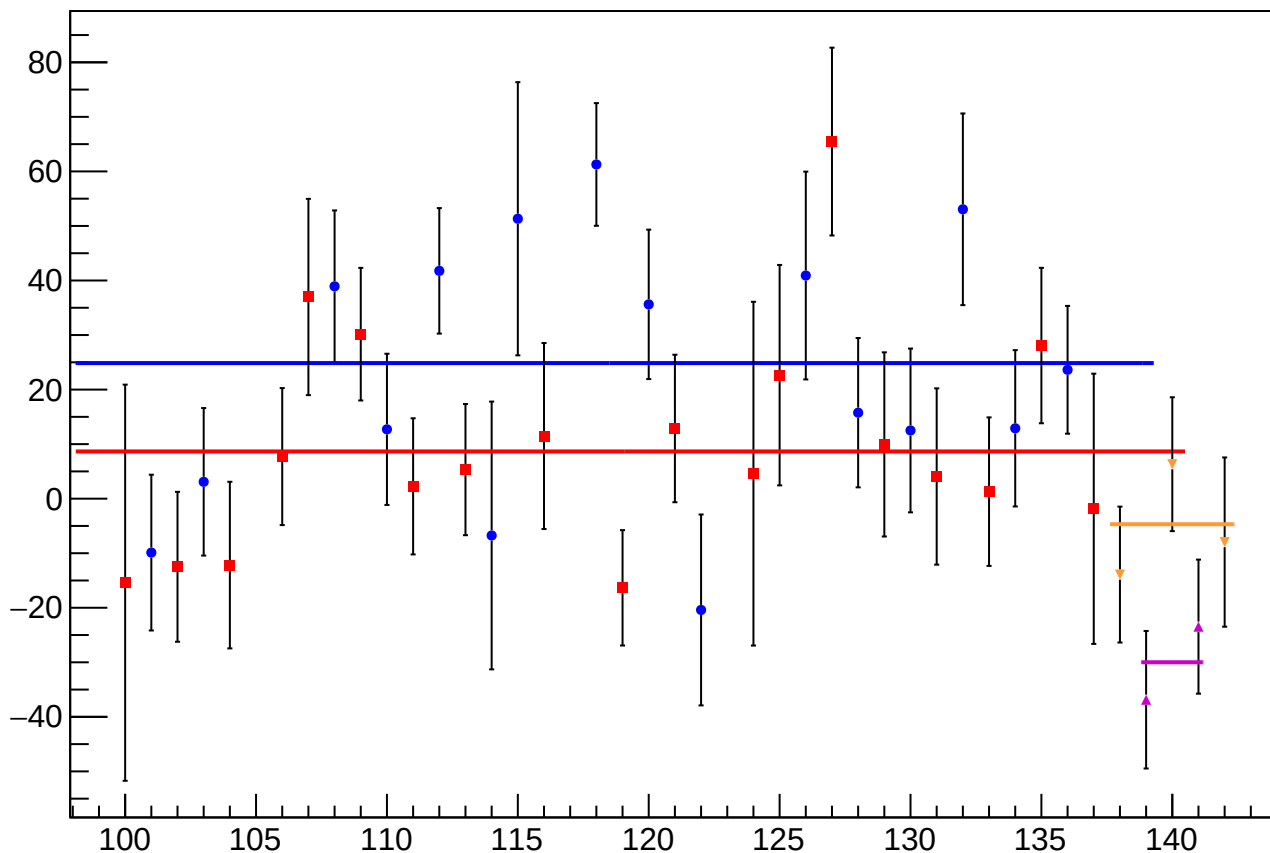
Right: 1208.533 ± 0.223 χ^2/NDF : 60729.4/34

In: 1117.547 ± 0.266 χ^2/NDF : 336601.1/17

Out: 1102.096 ± 0.254 χ^2/NDF : 344869.5/21

All: 1109.461 ± 0.184 χ^2/NDF : 683233.5/39

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 24.860 $\pm$ 3.628 χ^2 /NDF: 38.1/15

Left Out: -4.684 $\pm$ 7.617 χ^2 /NDF: 1.4/2

Right Out: 8.658 $\pm$ 3.454 χ^2 /NDF: 30.1/18

Left In: -29.990 $\pm$ 8.800 χ^2 /NDF: 0.6/1

Left: -15.522 $\pm$ 5.759 χ^2 /NDF: 6.7/4

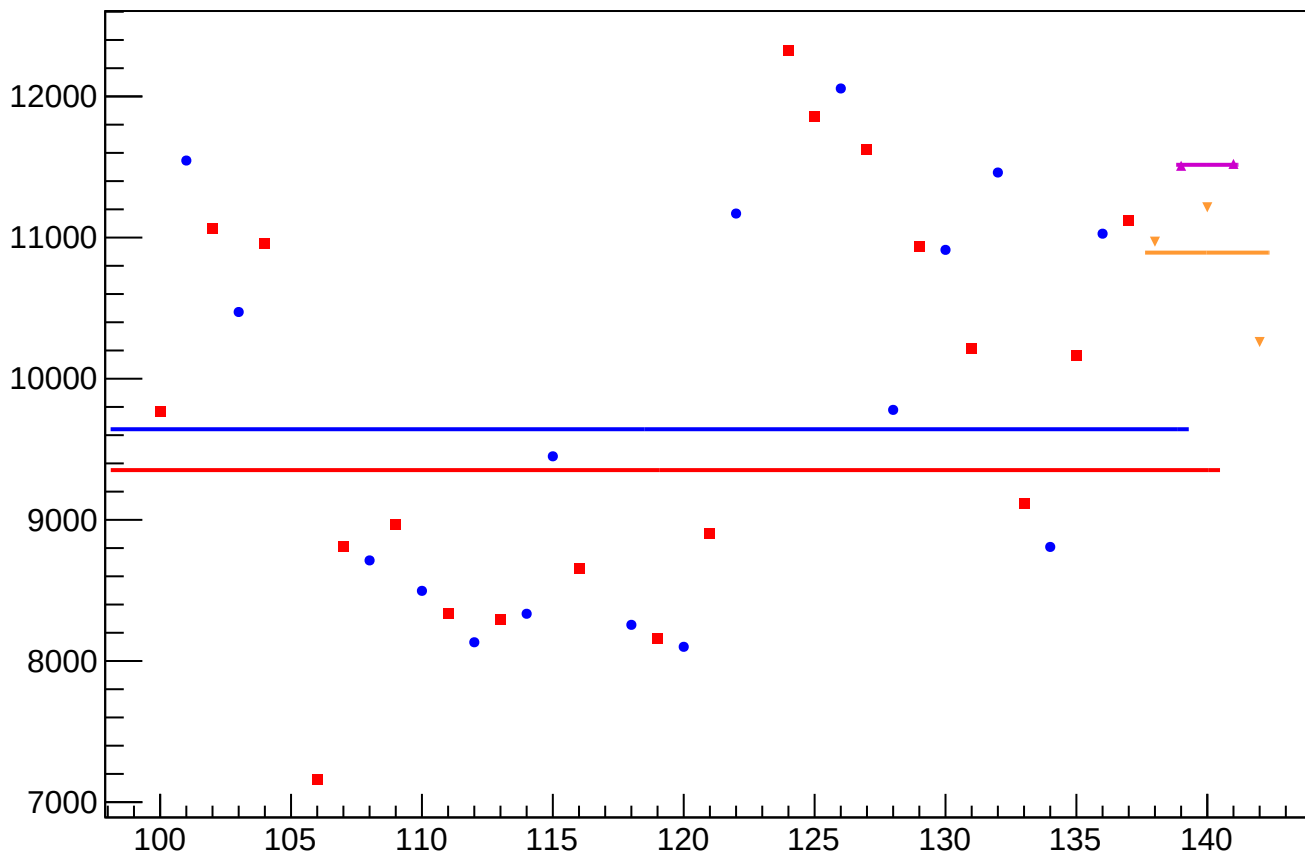
Right: 16.361 $\pm$ 2.501 χ^2 /NDF: 78.7/34

In: 16.892 $\pm$ 3.354 χ^2 /NDF: 71.9/17

Out: 6.383 $\pm$ 3.145 χ^2 /NDF: 34.1/21

All: 11.301 $\pm$ 2.294 χ^2 /NDF: 111.2/39

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9642.075 ± 2.565 $\chi^2/\text{NDF}: 279657.4/15$

Left Out: 10893.442 ± 5.386 $\chi^2/\text{NDF}: 4779.3/2$

Right Out: 9352.503 ± 2.442 $\chi^2/\text{NDF}: 301779.3/18$

Left In: 11515.535 ± 6.223 $\chi^2/\text{NDF}: 1.1/1$

Left: 11159.864 ± 4.072 $\chi^2/\text{NDF}: 10494.3/4$

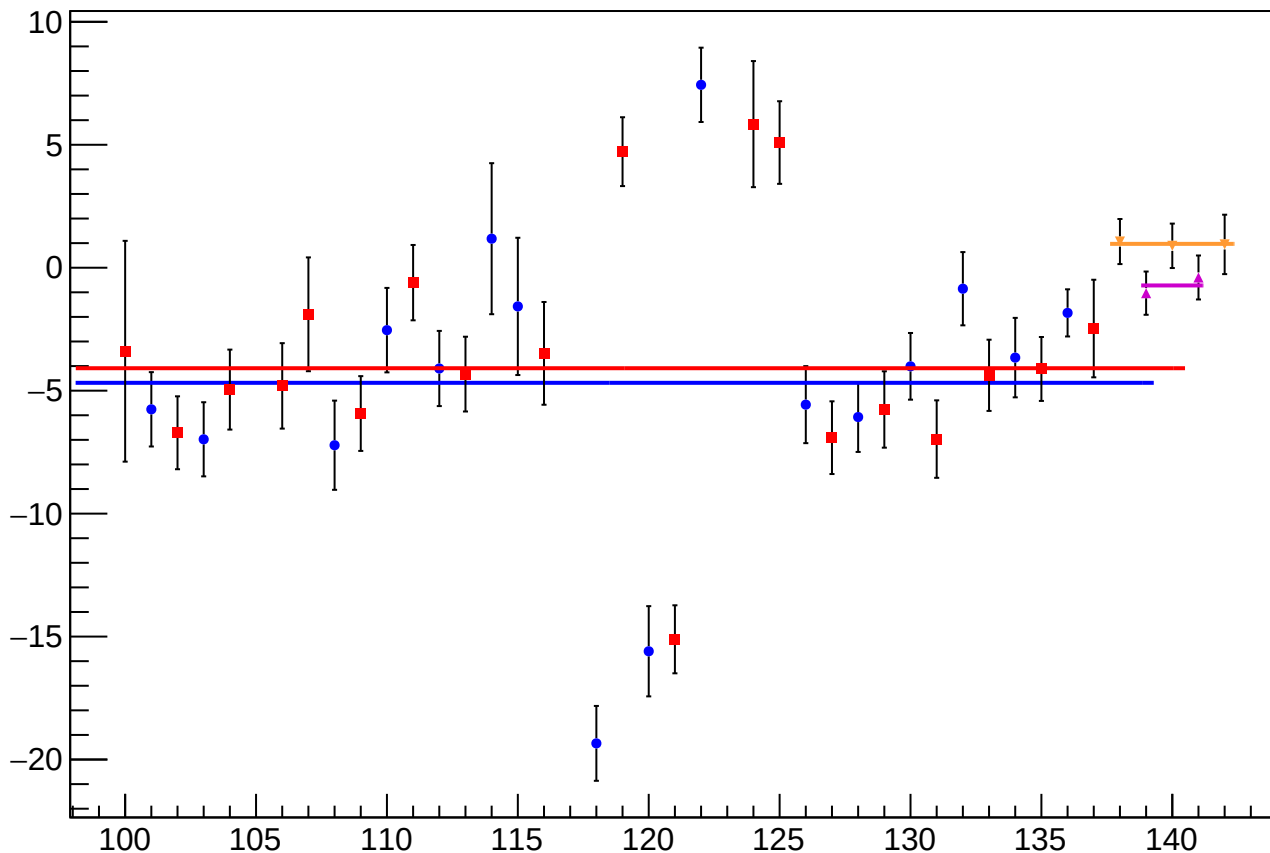
Right: 9490.167 ± 1.769 $\chi^2/\text{NDF}: 588120.8/34$

In: 9914.220 ± 2.372 $\chi^2/\text{NDF}: 357131.5/17$

Out: 9615.302 ± 2.224 $\chi^2/\text{NDF}: 374458.8/21$

All: 9755.173 ± 1.622 $\chi^2/\text{NDF}: 740042.0/39$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.681 ± 0.386 χ^2/NDF : 221.2/15

Left Out: 0.970 ± 0.568 χ^2/NDF : 0.0/2

Right Out: -4.087 ± 0.376 χ^2/NDF : 168.1/18

Left In: -0.721 ± 0.627 χ^2/NDF : 0.3/1

Left: 0.208 ± 0.421 χ^2/NDF : 4.3/4

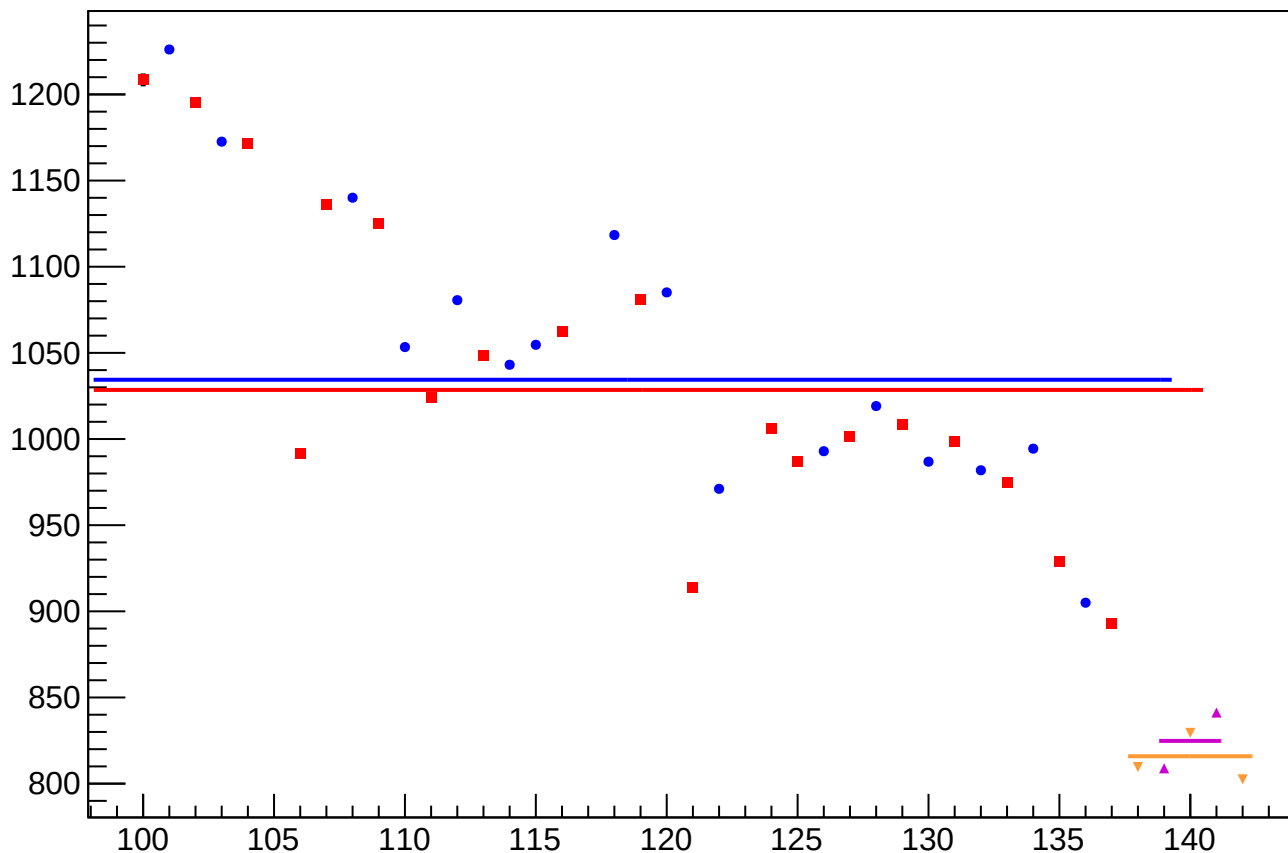
Right: -4.376 ± 0.269 χ^2/NDF : 390.5/34

In: -3.593 ± 0.329 χ^2/NDF : 250.4/17

Out: -2.544 ± 0.314 χ^2/NDF : 223.2/21

All: -3.044 ± 0.227 χ^2/NDF : 478.9/39

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1034.402 $\pm$ 0.273 χ^2 /NDF: 113278.6/15

Left Out: 815.889 $\pm$ 0.402 χ^2 /NDF: 790.2/2

Right Out: 1028.501 $\pm$ 0.266 χ^2 /NDF: 101624.8/18

Left In: 824.806 $\pm$ 0.443 χ^2 /NDF: 1333.1/1

Left: 819.908 $\pm$ 0.298 χ^2 /NDF: 2345.5/4

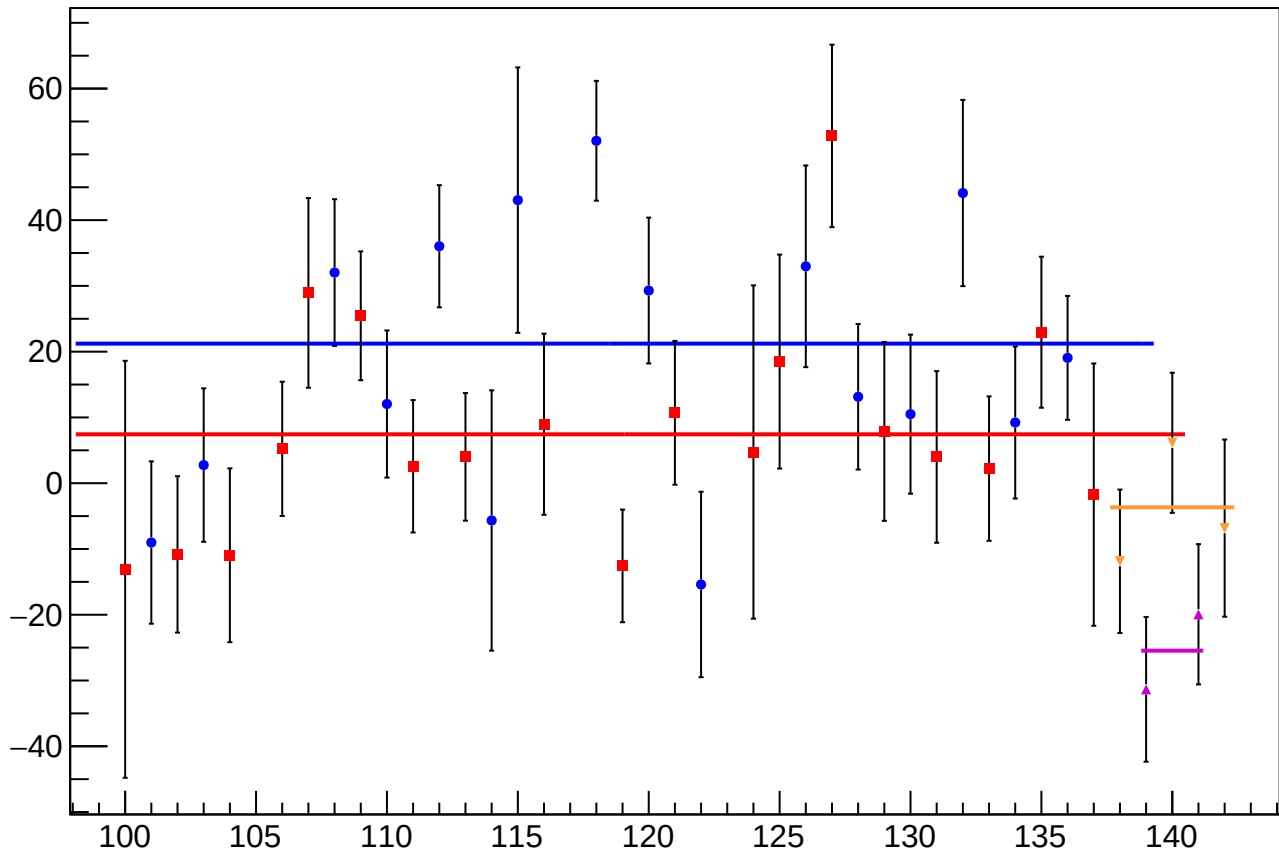
Right: 1031.379 $\pm$ 0.190 χ^2 /NDF: 215143.2/34

In: 976.845 $\pm$ 0.232 χ^2 /NDF: 276728.5/17

Out: 963.618 $\pm$ 0.222 χ^2 /NDF: 297163.9/21

All: 969.927 $\pm$ 0.160 χ^2 /NDF: 575587.8/39

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.222 ± 2.952 $\chi^2/\text{NDF}: 40.1/15$

Left Out: -3.665 ± 6.631 $\chi^2/\text{NDF}: 1.5/2$

Right Out: 7.435 ± 2.810 $\chi^2/\text{NDF}: 29.8/18$

Left In: -25.457 ± 7.658 $\chi^2/\text{NDF}: 0.6/1$

Left: -13.002 ± 5.013 $\chi^2/\text{NDF}: 6.7/4$

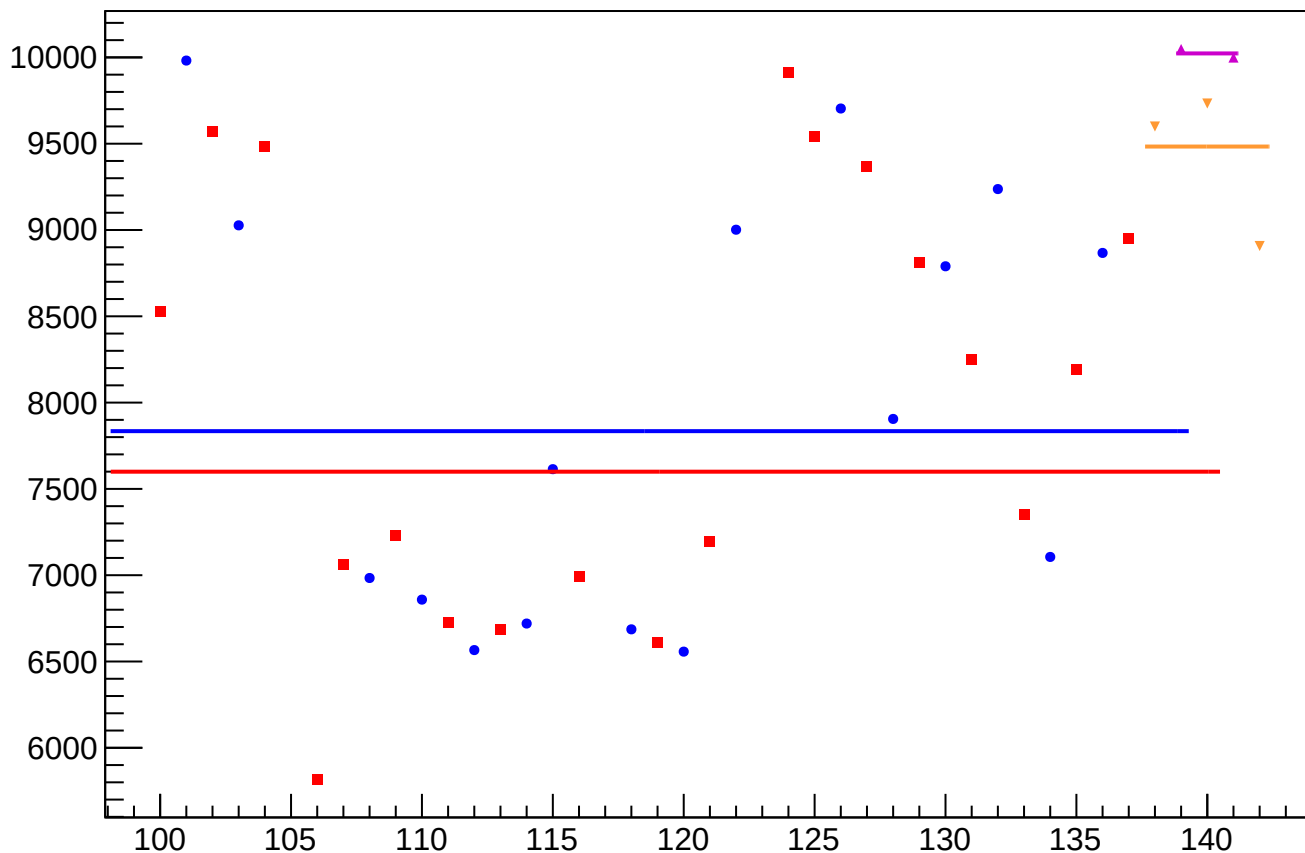
Right: 13.990 ± 2.035 $\chi^2/\text{NDF}: 81.3/34$

In: 15.184 ± 2.754 $\chi^2/\text{NDF}: 73.0/17$

Out: 5.745 ± 2.587 $\chi^2/\text{NDF}: 33.6/21$

All: 10.170 ± 1.886 $\chi^2/\text{NDF}: 112.9/39$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7834.618+/-2.087 χ^2/NDF : 318089.6/15

Left Out: 9483.490+/-4.689 χ^2/NDF : 4983.8/2

Right Out: 7599.749+/-1.987 χ^2/NDF : 344296.8/18

Left In: 10023.058+/-5.415 χ^2/NDF : 20.9/1

Left: 9714.667+/-3.545 χ^2/NDF : 10679.1/4

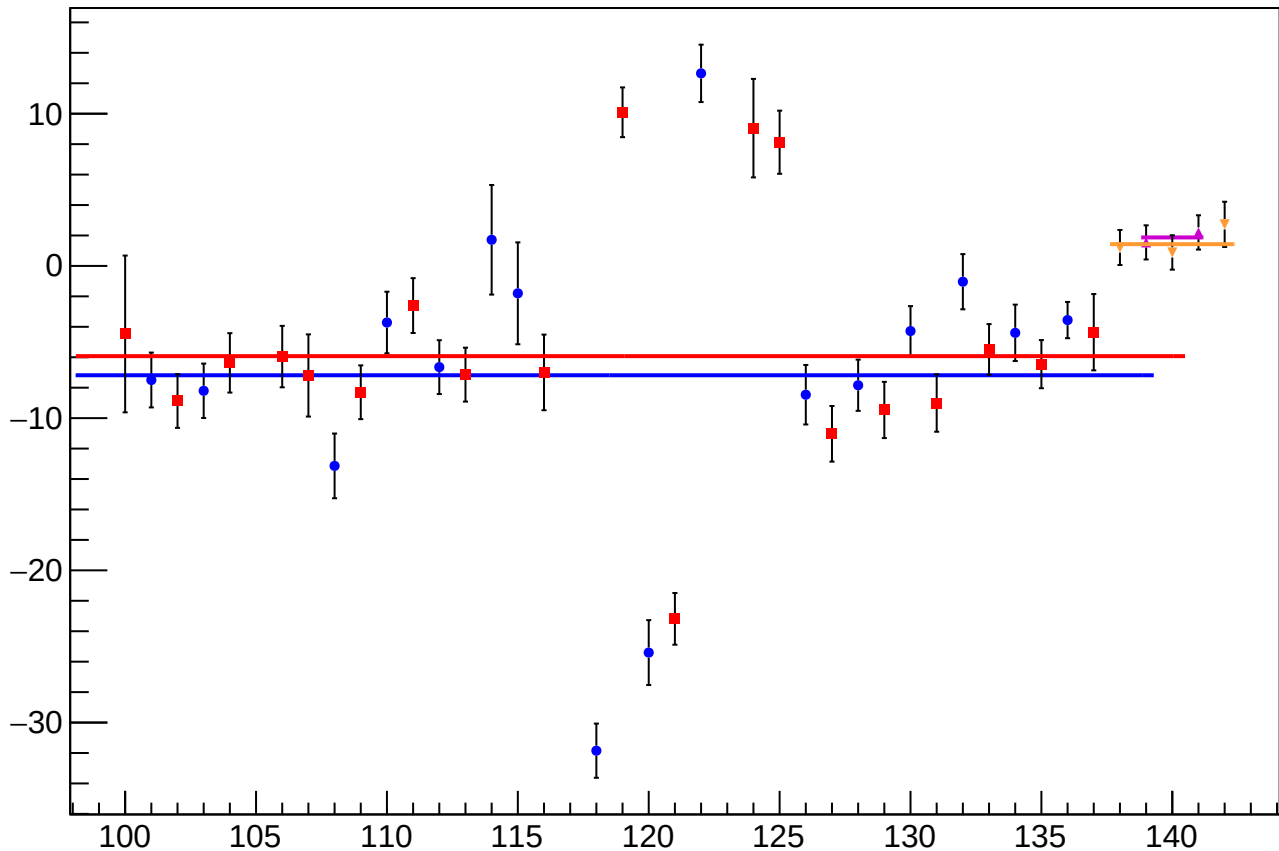
Right: 7711.419+/-1.439 χ^2/NDF : 669028.2/34

In: 8117.687+/-1.948 χ^2/NDF : 460305.3/17

Out: 7886.613+/-1.830 χ^2/NDF : 486123.1/21

All: 7994.941+/-1.333 χ^2/NDF : 953906.1/39

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -7.183 ± 0.462 $\chi^2/\text{NDF}: 422.2/15$

Left Out: 1.429 ± 0.709 $\chi^2/\text{NDF}: 1.0/2$

Right Out: -5.927 ± 0.449 $\chi^2/\text{NDF}: 290.4/18$

Left In: 1.872 ± 0.795 $\chi^2/\text{NDF}: 0.2/1$

Left: 1.625 ± 0.529 $\chi^2/\text{NDF}: 1.4/4$

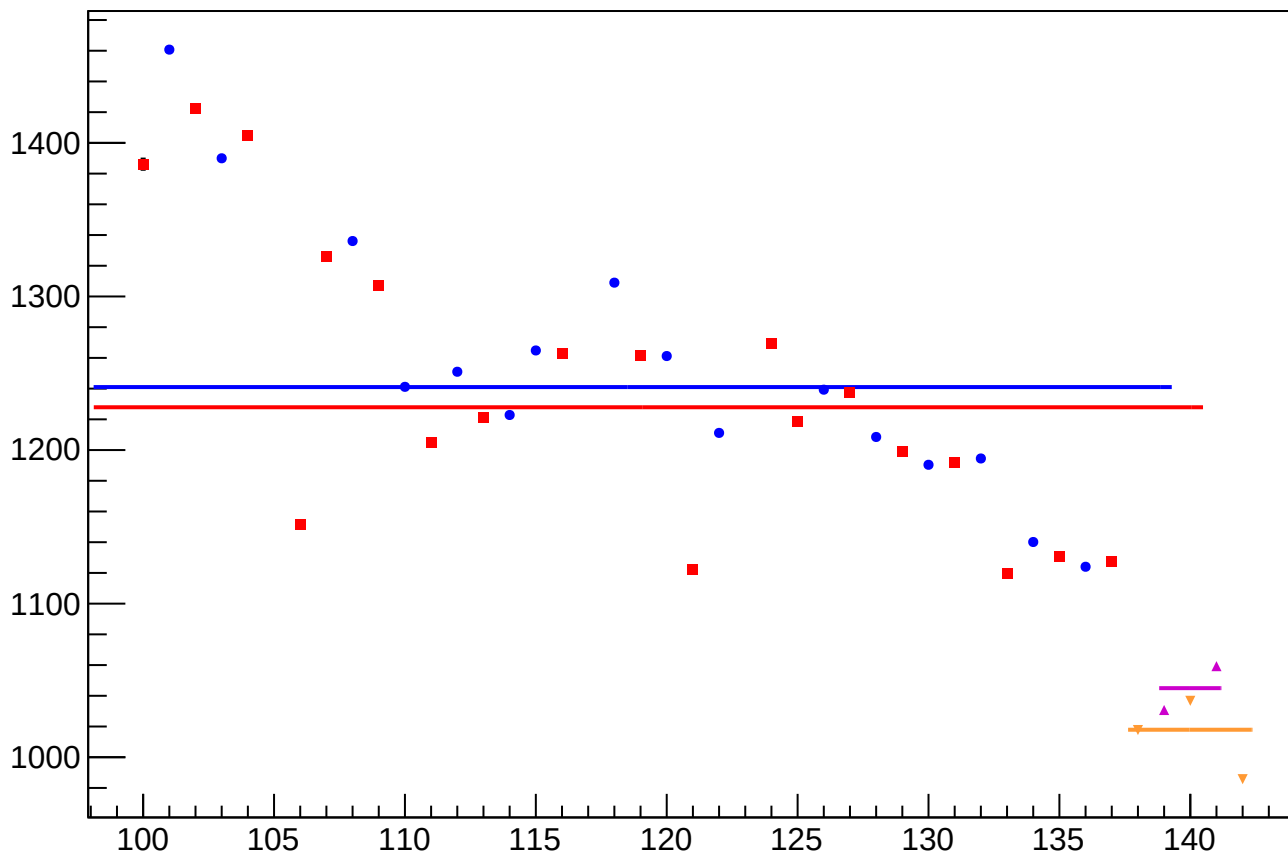
Right: -6.537 ± 0.322 $\chi^2/\text{NDF}: 716.4/34$

In: -4.894 ± 0.400 $\chi^2/\text{NDF}: 519.4/17$

Out: -3.820 ± 0.379 $\chi^2/\text{NDF}: 368.2/21$

All: -4.329 ± 0.275 $\chi^2/\text{NDF}: 891.4/39$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1241.007 ± 0.327 $\chi^2/\text{NDF}: 80653.5/15$

Left Out: 1017.899 ± 0.501 $\chi^2/\text{NDF}: 1495.7/2$

Right Out: 1227.864 ± 0.318 $\chi^2/\text{NDF}: 82339.2/18$

Left In: 1044.973 ± 0.562 $\chi^2/\text{NDF}: 644.5/1$

Left: 1029.893 ± 0.374 $\chi^2/\text{NDF}: 3432.4/4$

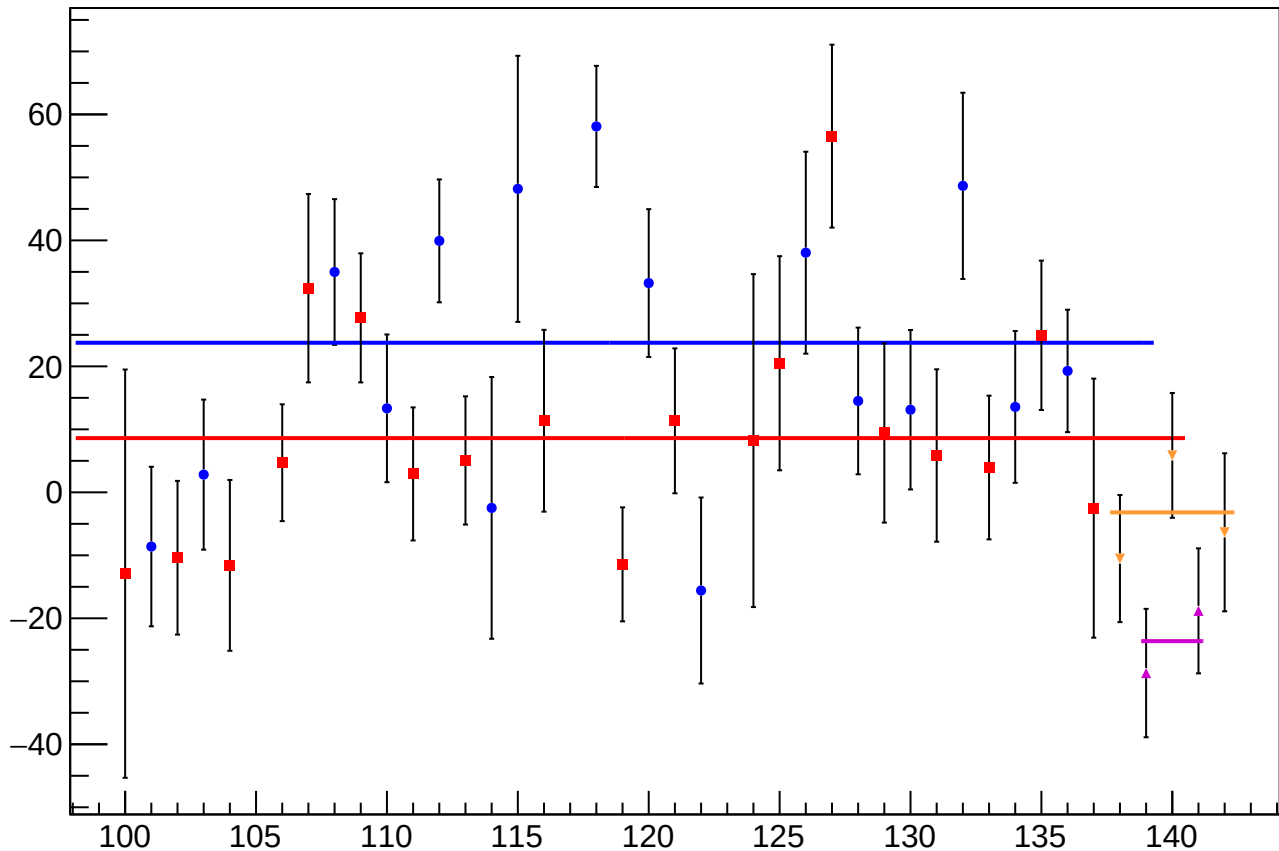
Right: 1234.245 ± 0.228 $\chi^2/\text{NDF}: 163824.2/34$

In: 1191.456 ± 0.283 $\chi^2/\text{NDF}: 172186.4/17$

Out: 1167.723 ± 0.268 $\chi^2/\text{NDF}: 209017.2/21$

All: 1178.974 ± 0.195 $\chi^2/\text{NDF}: 384912.8/39$

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 23.750+/-3.081 χ^2/NDF : 43.4/15

Left Out: -3.184+/-6.159 χ^2/NDF : 1.4/2

Right Out: 8.609+/-2.899 χ^2/NDF : 30.5/18

Left In: -23.625+/-7.110 χ^2/NDF : 0.5/1

Left: -11.946+/-4.655 χ^2/NDF : 6.6/4

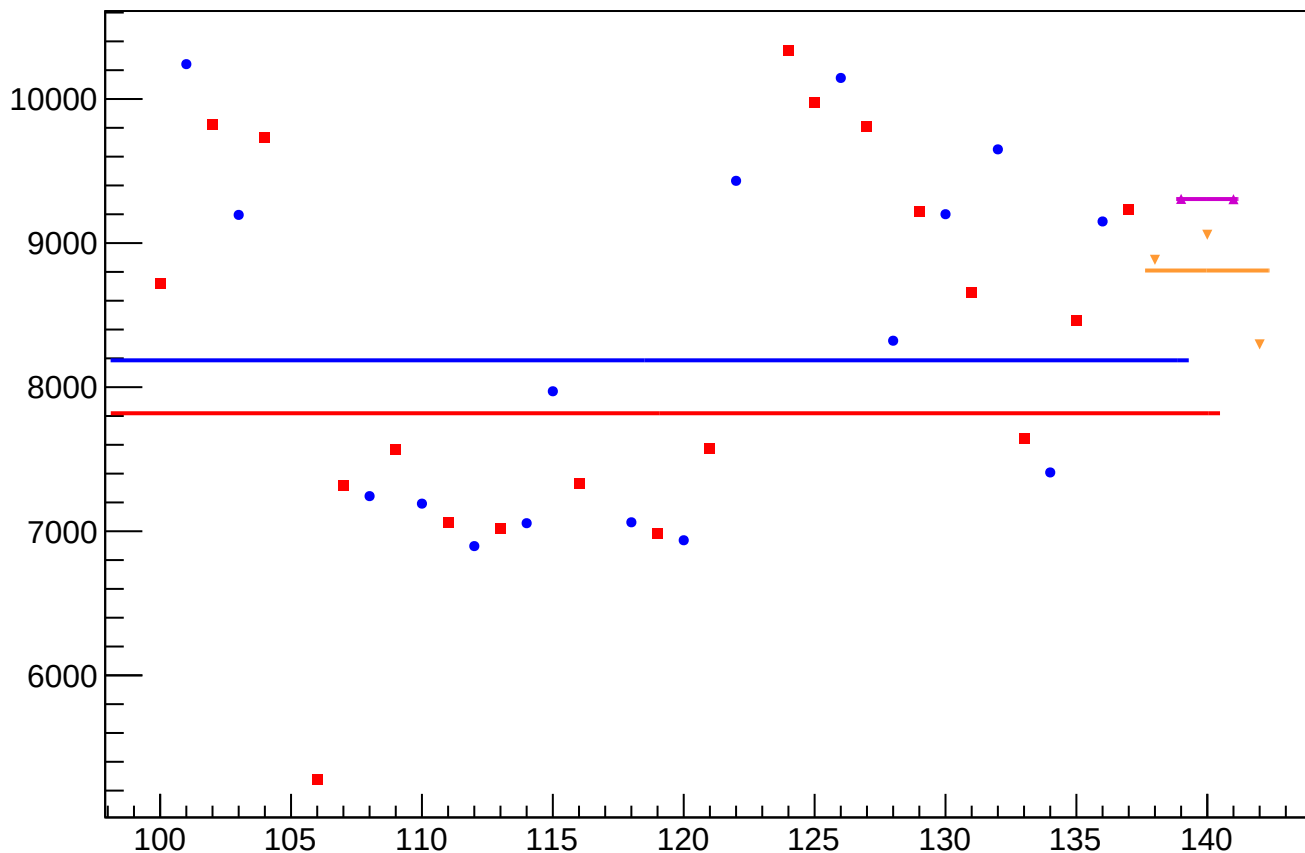
Right: 15.718+/-2.111 χ^2/NDF : 86.7/34

In: 16.259+/-2.827 χ^2/NDF : 81.3/17

Out: 6.470+/-2.623 χ^2/NDF : 34.9/21

All: 10.998+/-1.923 χ^2/NDF : 122.6/39

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8186.361+/-2.179 χ^2/NDF : 290628.8/15

Left Out: 8809.633+/-4.355 χ^2/NDF : 4703.5/2

Right Out: 7818.965+/-2.050 χ^2/NDF : 422998.1/18

Left In: 9305.678+/-5.028 χ^2/NDF : 0.0/1

Left: 9022.267+/-3.292 χ^2/NDF : 10265.0/4

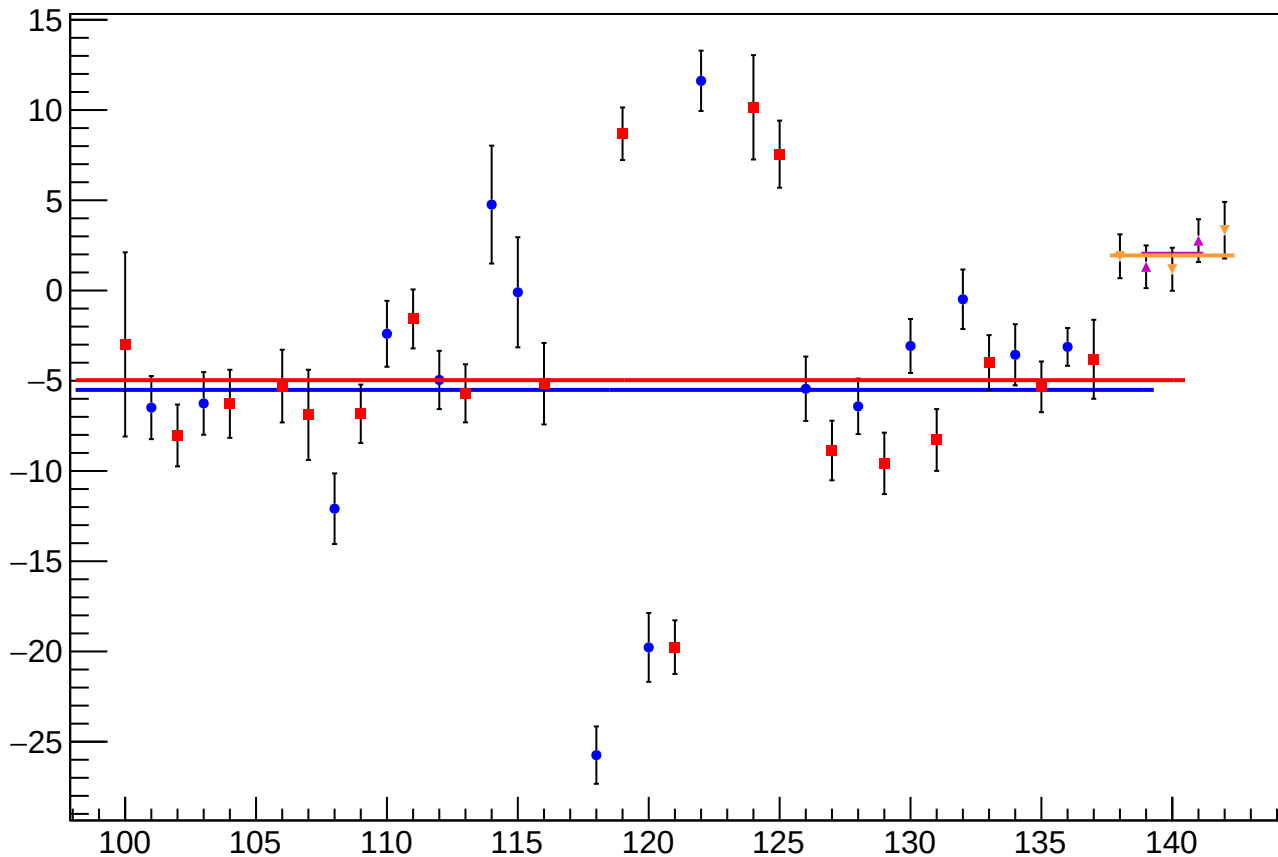
Right: 7991.468+/-1.493 χ^2/NDF : 728709.0/34

In: 8363.343+/-1.999 χ^2/NDF : 332355.7/17

Out: 7998.654+/-1.855 χ^2/NDF : 470064.0/21

All: 8167.343+/-1.360 χ^2/NDF : 820303.5/39

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.506 ± 0.421 χ^2/NDF : 369.8/15

Left Out: 1.944 ± 0.748 χ^2/NDF : 1.2/2

Right Out: -4.967 ± 0.410 χ^2/NDF : 287.3/18

Left In: 2.038 ± 0.838 χ^2/NDF : 0.7/1

Left: 1.985 ± 0.558 χ^2/NDF : 2.0/4

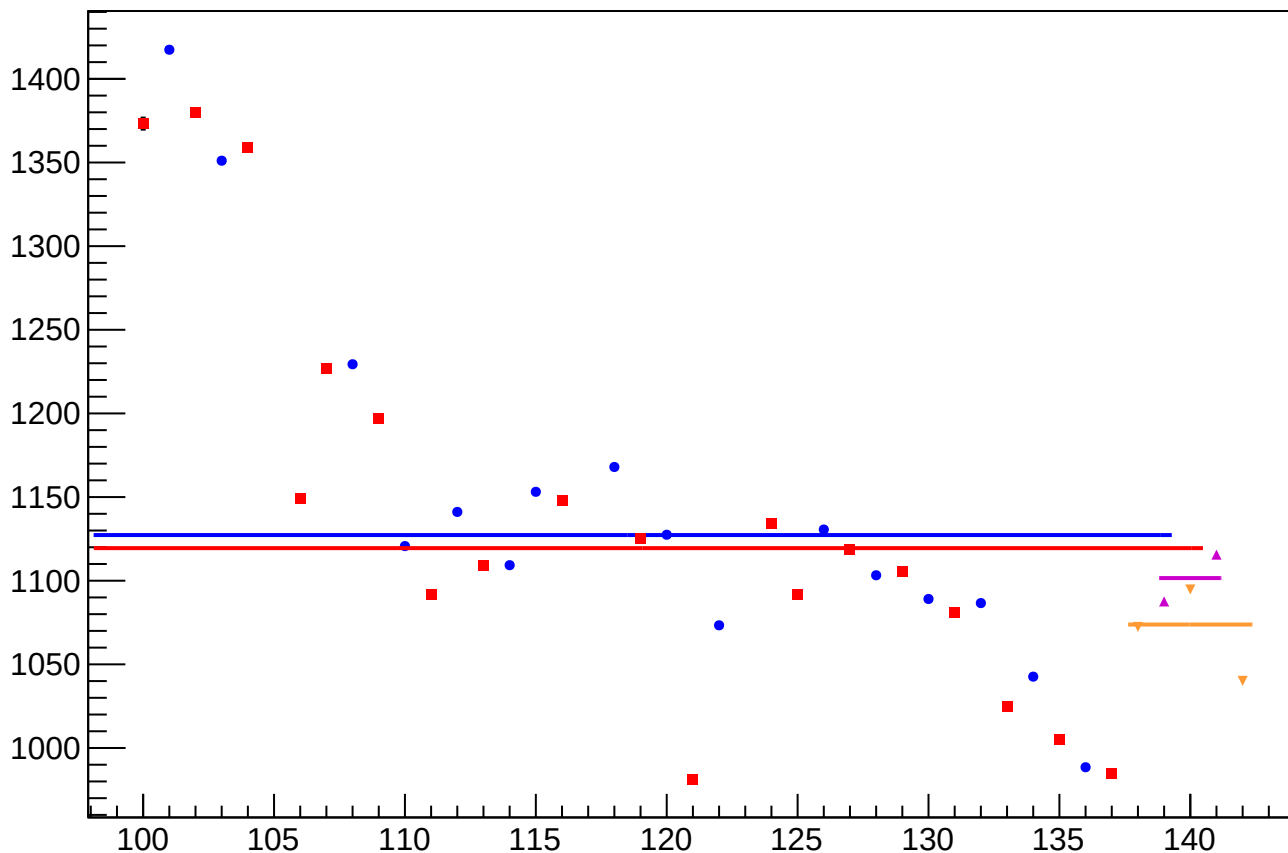
Right: -5.230 ± 0.294 χ^2/NDF : 657.9/34

In: -3.987 ± 0.376 χ^2/NDF : 435.3/17

Out: -3.368 ± 0.360 χ^2/NDF : 354.1/21

All: -3.664 ± 0.260 χ^2/NDF : 790.8/39

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1127.290 ± 0.298 $\chi^2/\text{NDF}: 140615.8/15$

Left Out: 1073.808 ± 0.529 $\chi^2/\text{NDF}: 1543.9/2$

Right Out: 1119.473 ± 0.290 $\chi^2/\text{NDF}: 140736.0/18$

Left In: 1101.575 ± 0.593 $\chi^2/\text{NDF}: 557.4/1$

Left: 1086.120 ± 0.395 $\chi^2/\text{NDF}: 3323.7/4$

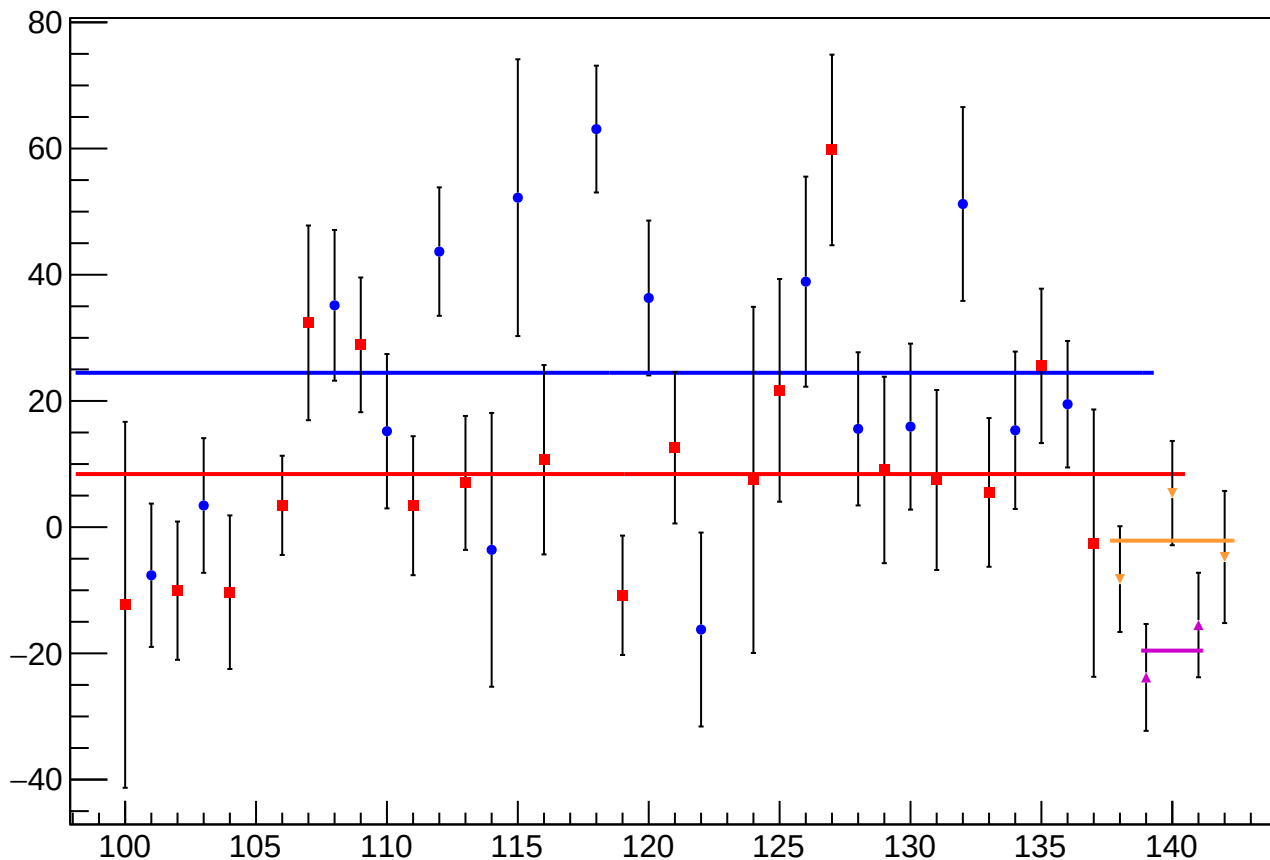
Right: 1123.282 ± 0.208 $\chi^2/\text{NDF}: 281705.5/34$

In: 1122.109 ± 0.266 $\chi^2/\text{NDF}: 142677.2/17$

Out: 1108.907 ± 0.254 $\chi^2/\text{NDF}: 148010.9/21$

All: 1115.215 ± 0.184 $\chi^2/\text{NDF}: 291975.1/39$

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.463 $\pm$ 3.136 χ^2 /NDF: 48.3/15

Left Out: -2.140 $\pm$ 5.129 χ^2 /NDF: 1.4/2

Right Out: 8.413 $\pm$ 2.891 χ^2 /NDF: 31.1/18

Left In: -19.566 $\pm$ 5.920 χ^2 /NDF: 0.5/1

Left: -9.612 $\pm$ 3.876 χ^2 /NDF: 6.9/4

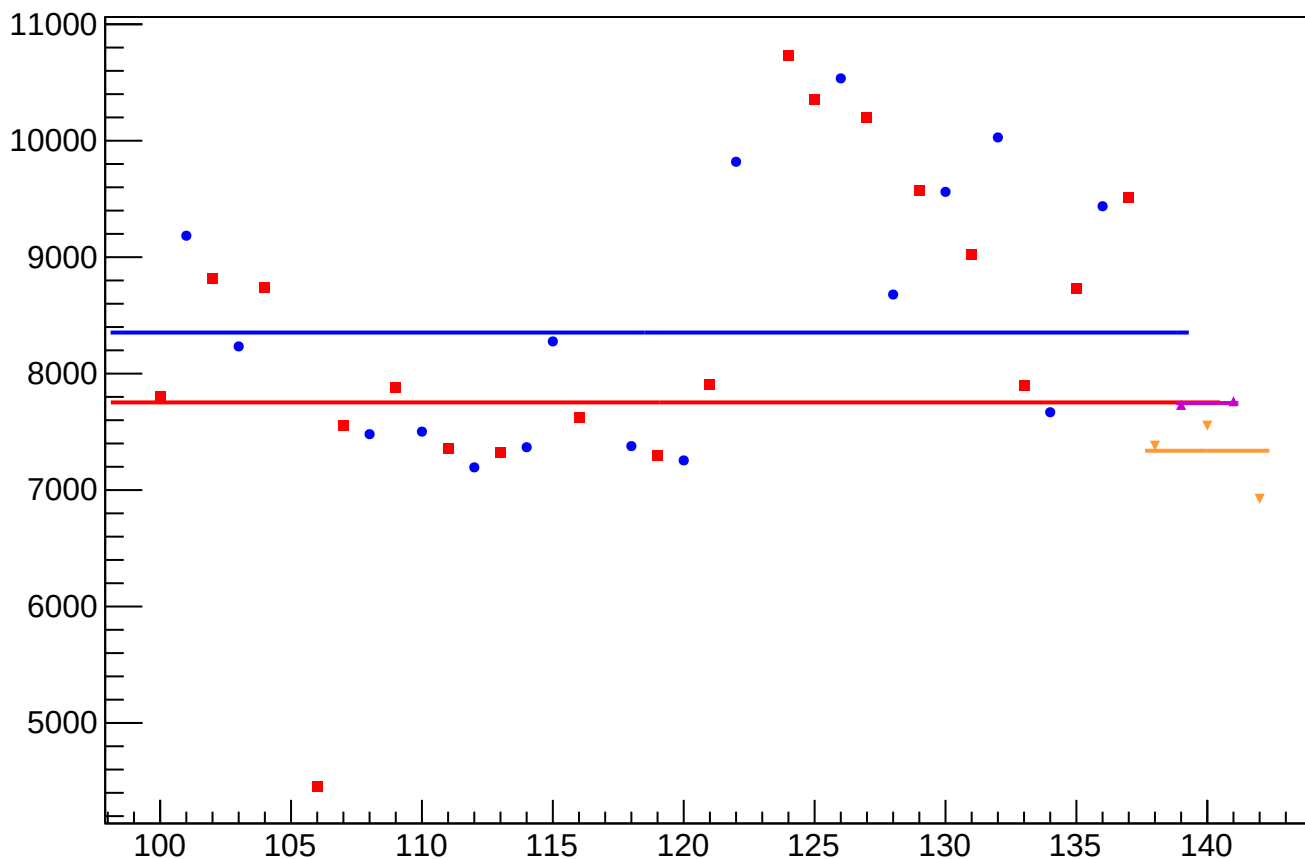
Right: 15.786 $\pm$ 2.126 χ^2 /NDF: 93.6/34

In: 14.814 $\pm$ 2.771 χ^2 /NDF: 92.0/17

Out: 5.869 $\pm$ 2.518 χ^2 /NDF: 35.8/21

All: 9.915 $\pm$ 1.864 χ^2 /NDF: 133.5/39

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8352.758 $\pm$ 2.218 χ^2 /NDF: 220412.5/15

Left Out: 7337.694 $\pm$ 3.627 χ^2 /NDF:4521.7/2

Right Out: 7752.674 $\pm$ 2.044 χ^2 /NDF: 588072.1/18

Left In: 7747.588 $\pm$ 4.186 χ^2 /NDF:14.4/1

Left: 7513.464 $\pm$ 2.741 χ^2 /NDF: 10013.3/4

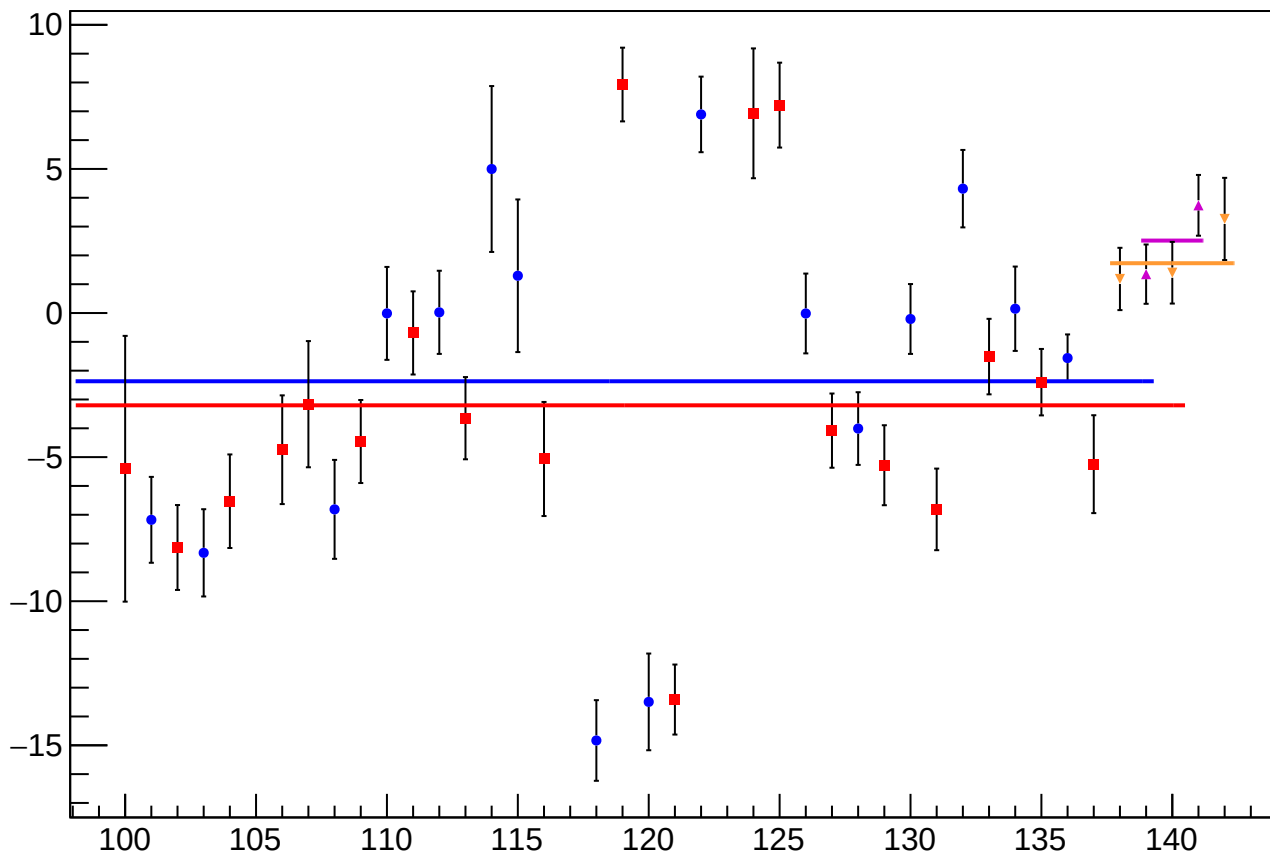
Right: 8028.343 $\pm$ 1.503 χ^2 /NDF: 848071.5/34

In: 8220.130 $\pm$ 1.960 χ^2 /NDF:236748.1/17

Out: 7652.627 $\pm$ 1.781 χ^2 /NDF:602529.1/21

All: 7909.319 $\pm$ 1.318 χ^2 /NDF: 885211.8/39

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.368 ± 0.350 χ^2/NDF : 255.6/15

Left Out: 1.728 ± 0.671 χ^2/NDF : 1.5/2

Right Out: -3.203 ± 0.346 χ^2/NDF : 250.5/18

Left In: 2.514 ± 0.736 χ^2/NDF : 2.6/1

Left: 2.085 ± 0.496 χ^2/NDF : 4.8/4

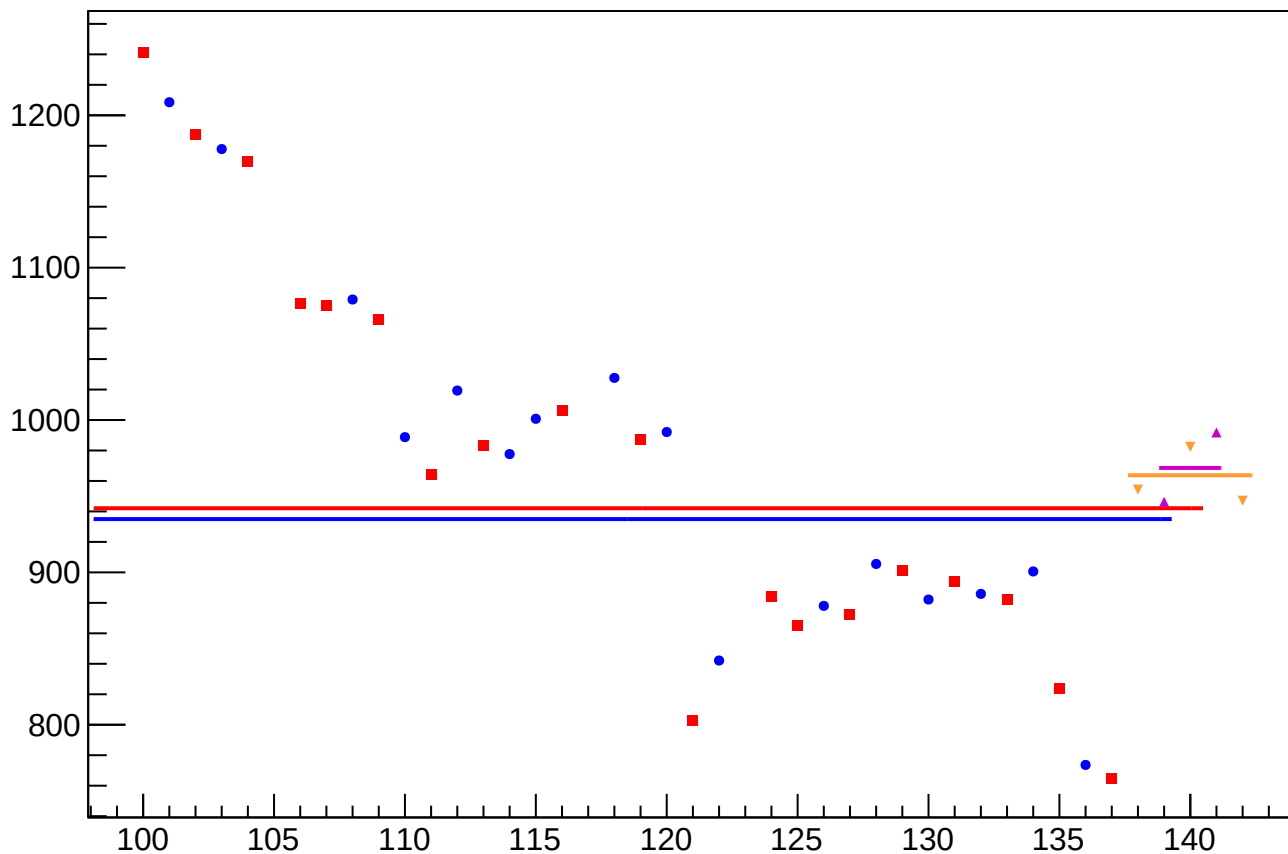
Right: -2.790 ± 0.246 χ^2/NDF : 509.0/34

In: -1.466 ± 0.316 χ^2/NDF : 294.0/17

Out: -2.165 ± 0.308 χ^2/NDF : 294.7/21

All: -1.825 ± 0.221 χ^2/NDF : 591.2/39

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 934.975+/-0.248 χ^2/NDF : 254363.7/15

Left Out: 963.744+/-0.474 χ^2/NDF :1033.0/2

Right Out: 942.096+/-0.245 χ^2/NDF : 232453.5/18

Left In: 968.553+/-0.521 χ^2/NDF :1908.0/1

Left: 965.926+/-0.351 χ^2/NDF : 2987.6/4

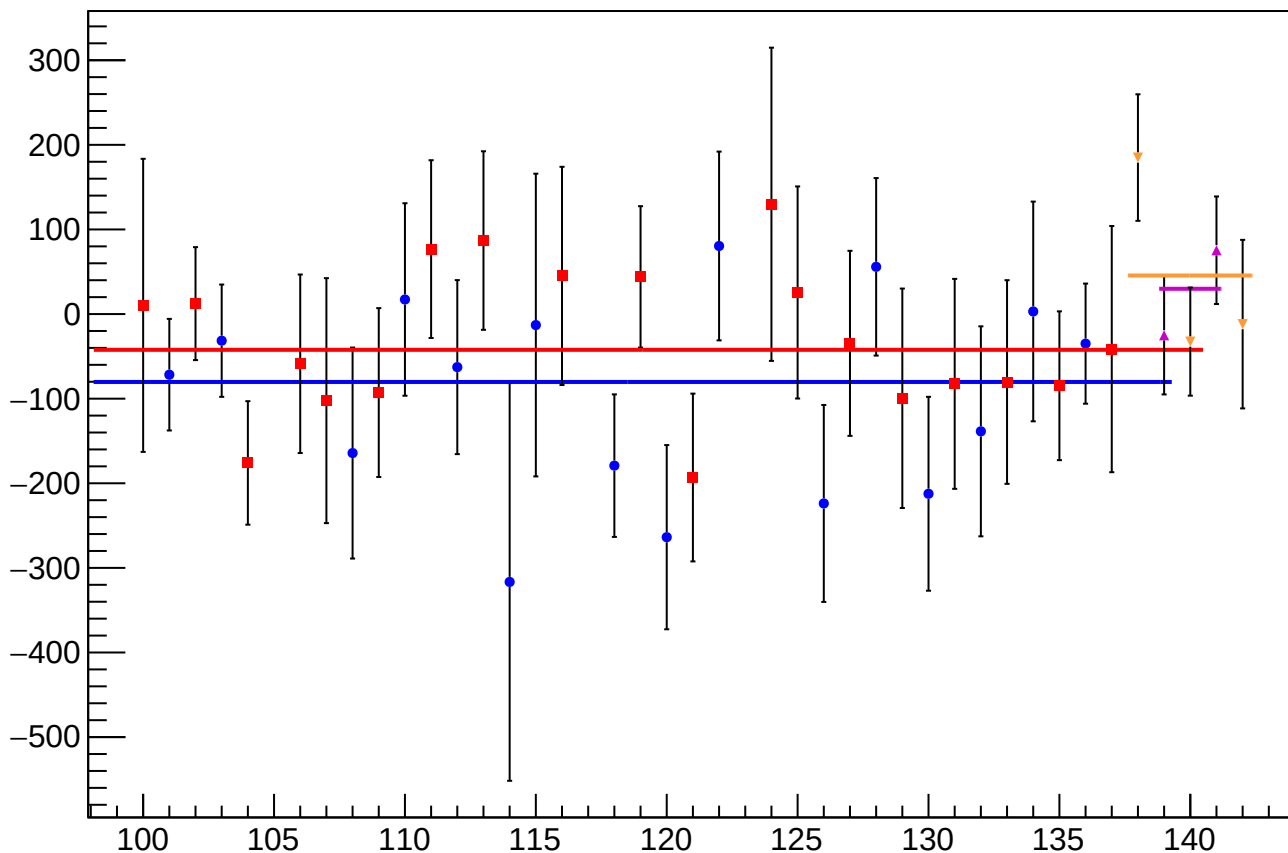
Right: 938.577+/-0.174 χ^2/NDF : 487235.0/34

In: 941.176+/-0.224 χ^2/NDF :259662.5/17

Out: 946.650+/-0.218 χ^2/NDF :235130.2/21

All: 943.989+/-0.156 χ^2/NDF : 495100.3/39

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -80.250 $\pm$ 24.909 χ^2/NDF : 14.8/15

Left Out: 45.580 $\pm$ 43.665 χ^2/NDF : 5.3/2

Right Out: -42.263 $\pm$ 24.144 χ^2/NDF : 13.0/18

Left In: 29.885 $\pm$ 47.020 χ^2/NDF : 1.1/1

Left: 38.312 $\pm$ 31.996 χ^2/NDF : 6.5/4

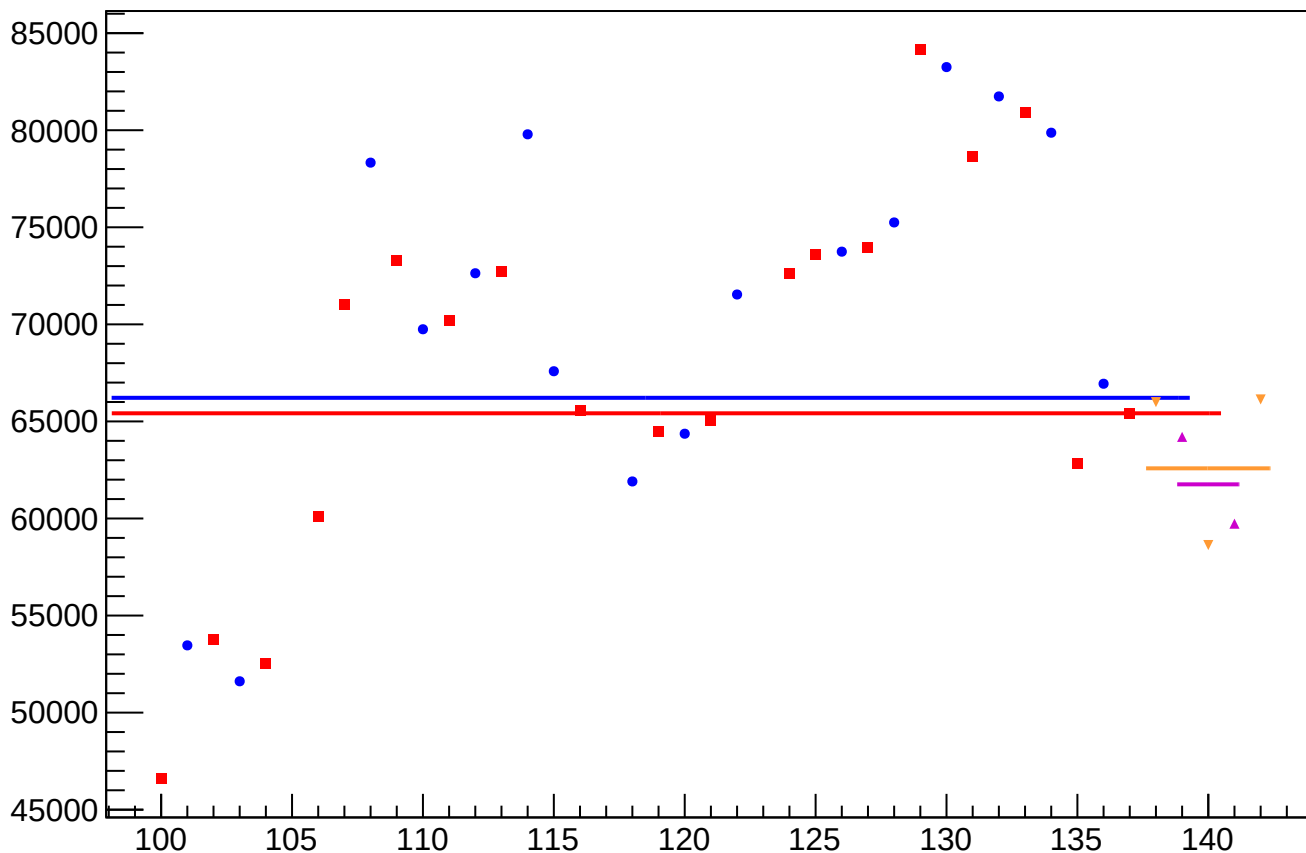
Right: -60.665 $\pm$ 17.337 χ^2/NDF : 29.0/34

In: -56.115 $\pm$ 22.011 χ^2/NDF : 20.2/17

Out: -21.695 $\pm$ 21.129 χ^2/NDF : 21.4/21

All: -38.202 $\pm$ 15.243 χ^2/NDF : 42.9/39

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66216.115+/-17.613 χ^2/NDF : 338377.6/15

Left Out: 62583.390+/-30.876 χ^2/NDF : 14345.6/2

Right Out: 65418.529+/-17.073 χ^2/NDF : 304555.9/18

Left In: 61758.573+/-33.248 χ^2/NDF : 4482.5/1

Left: 62201.449+/-22.625 χ^2/NDF : 19158.5/4

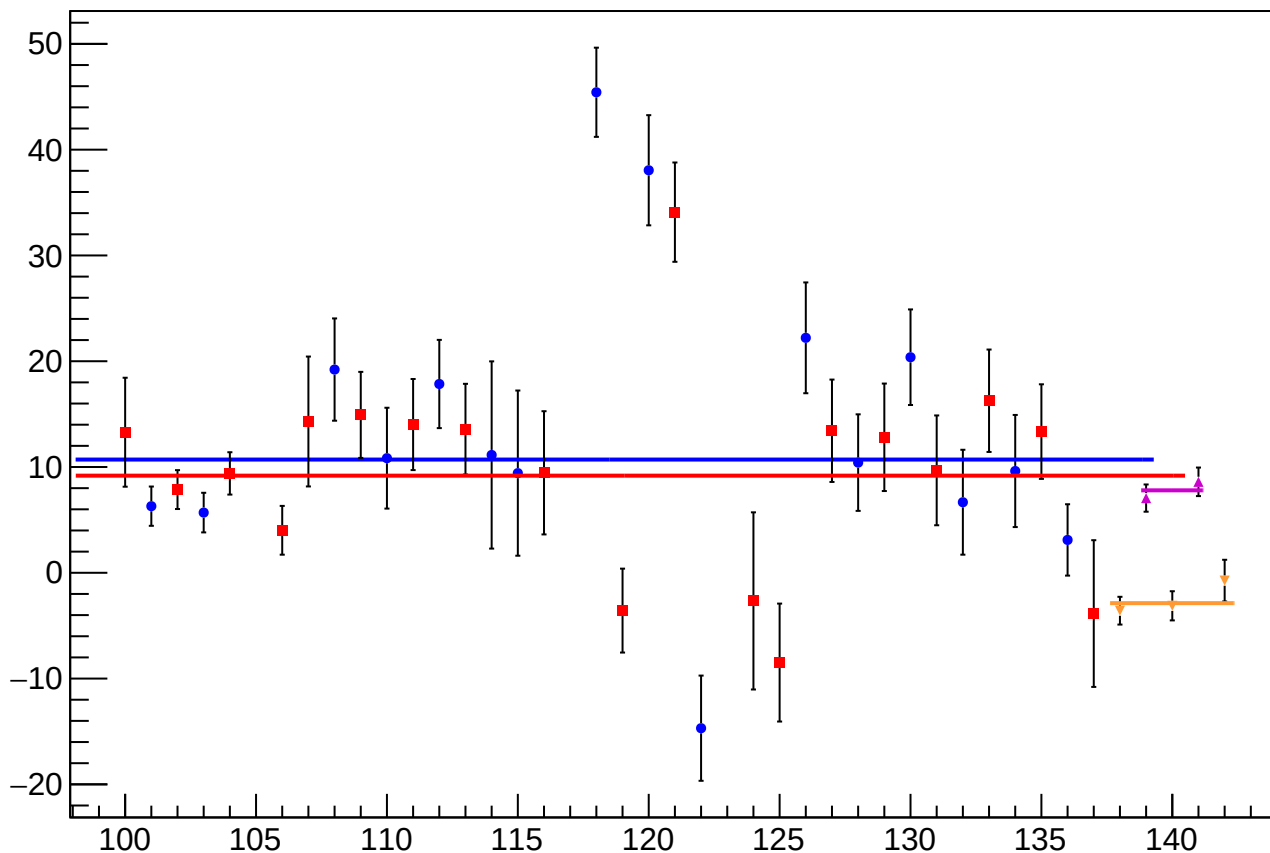
Right: 65804.895+/-12.259 χ^2/NDF : 643990.8/34

In: 65239.284+/-15.564 χ^2/NDF : 356895.8/17

Out: 64754.668+/-14.941 χ^2/NDF : 325358.7/21

All: 64987.076+/-10.778 χ^2/NDF : 682759.1/3

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.705 $\pm$ 0.921 χ^2 /NDF: 155.6/15

Left Out: -2.869 $\pm$ 0.856 χ^2 /NDF:1.5/2

Right Out: 9.182 $\pm$ 0.850 χ^2 /NDF: 69.6/18

Left In: 7.794 $\pm$ 0.931 χ^2 /NDF:0.7/1

Left: 2.015 $\pm$ 0.630 χ^2 /NDF: 73.2/4

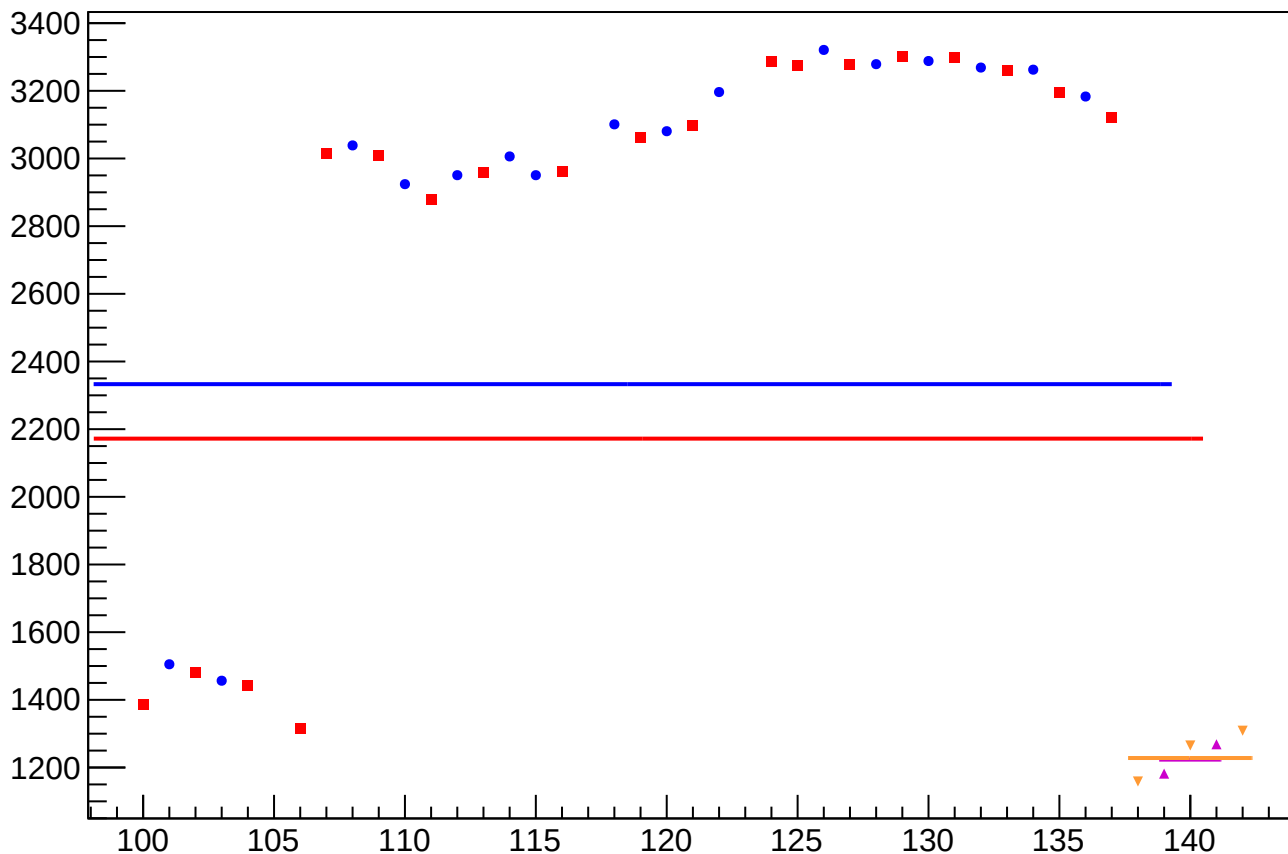
Right: 9.883 $\pm$ 0.625 χ^2 /NDF: 226.6/34

In: 9.266 $\pm$ 0.655 χ^2 /NDF:161.2/17

Out: 3.199 $\pm$ 0.603 χ^2 /NDF:170.8/21

All: 5.985 $\pm$ 0.444 χ^2 /NDF: 378.5/39

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2333.021+/-0.651 χ^2 /NDF: 1651407.8/15

Left Out: 1228.082+/-0.605 χ^2 /NDF:10389.7/2

Right Out: 2172.041+/-0.601 χ^2 /NDF: 1984197.6/18

Left In: 1223.297+/-0.659 χ^2 /NDF:4327.1/1

Left: 1225.890+/-0.446 χ^2 /NDF: 14745.4/4

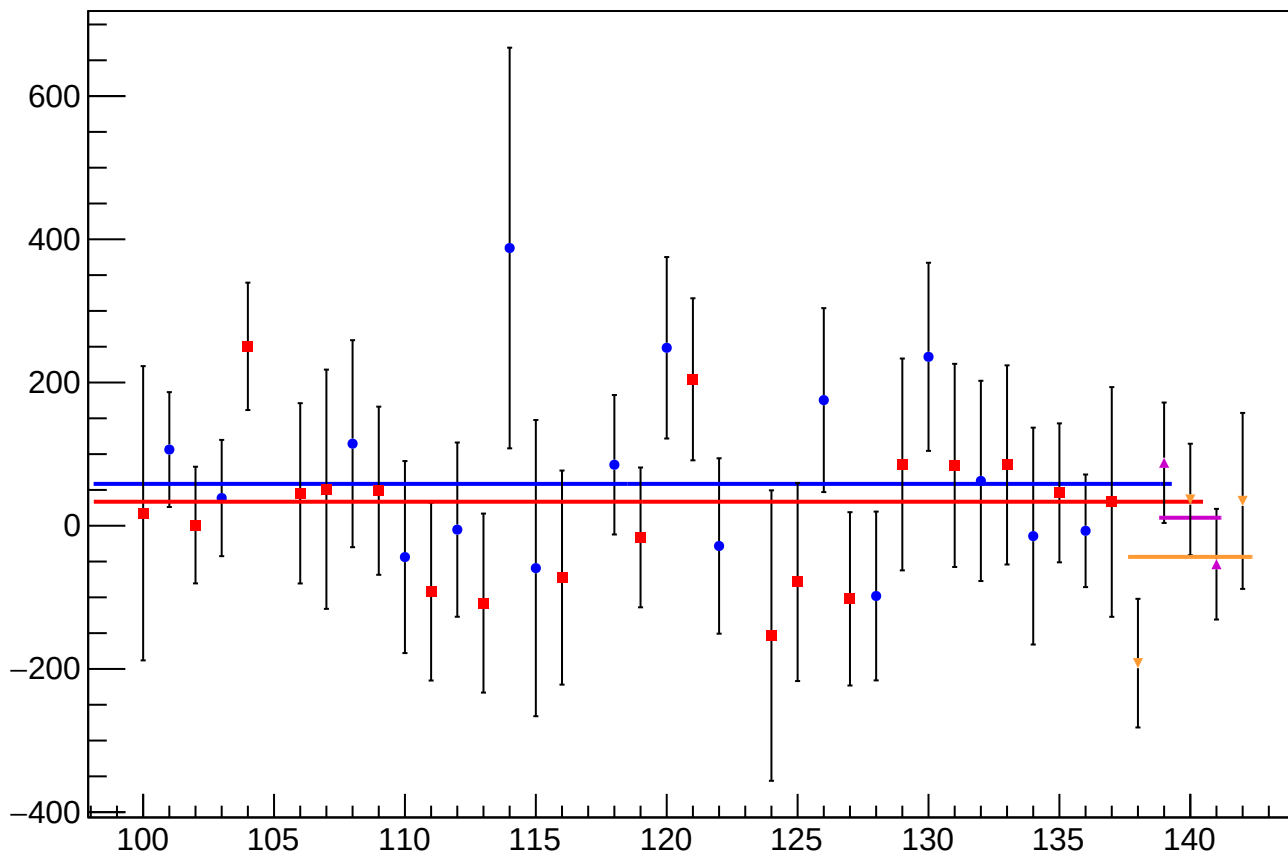
Right: 2246.139+/-0.442 χ^2 /NDF: 3668614.7/34

In: 1784.587+/-0.463 χ^2 /NDF:3092133.0/17

Out: 1703.380+/-0.427 χ^2 /NDF:3218827.8/21

All: 1740.668+/-0.314 χ^2 /NDF: 6327602.6/39

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 58.446 $\pm$ 28.918 χ^2 /NDF: 11.3/15

Left Out: -43.515 $\pm$ 53.072 χ^2 /NDF:4.2/2

Right Out: 33.520 $\pm$ 28.106 χ^2 /NDF: 14.7/18

Left In: 11.156 $\pm$ 56.894 χ^2 /NDF:1.5/1

Left: -18.077 $\pm$ 38.808 χ^2 /NDF: 6.2/4

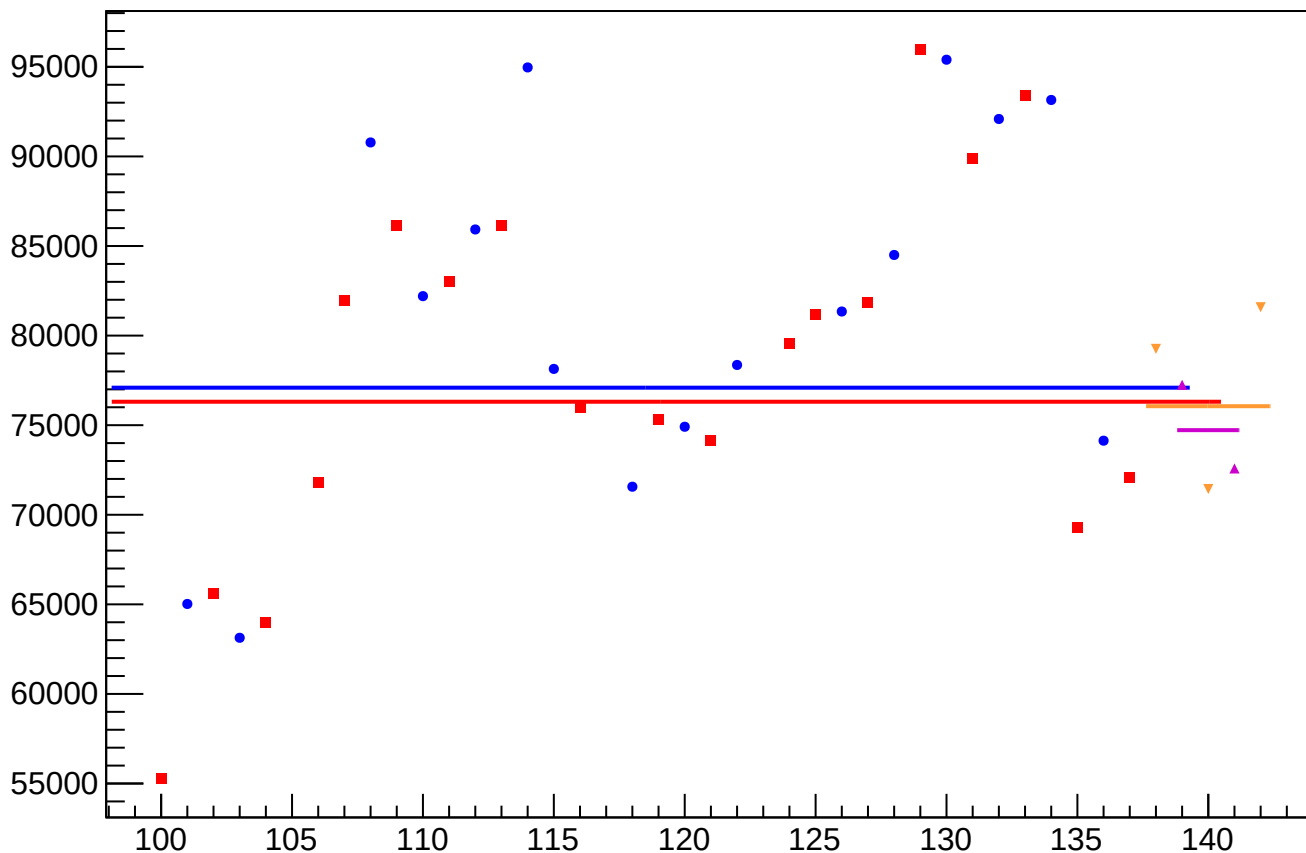
Right: 45.628 $\pm$ 20.155 χ^2 /NDF: 26.4/34

In: 48.737 $\pm$ 25.779 χ^2 /NDF:13.4/17

Out: 16.648 $\pm$ 24.838 χ^2 /NDF:20.5/21

All: 32.096 $\pm$ 17.886 χ^2 /NDF: 34.7/39

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 77093.125+/-20.448 χ^2/NDF : 248542.7/15

Left Out: 76059.593+/-37.528 χ^2/NDF :13626.1/2

Right Out: 76308.708+/-19.874 χ^2/NDF : 234433.2/18

Left In: 74722.352+/-40.230 χ^2/NDF :3341.2/1

Left: 75437.393+/-27.442 χ^2/NDF : 17558.1/4

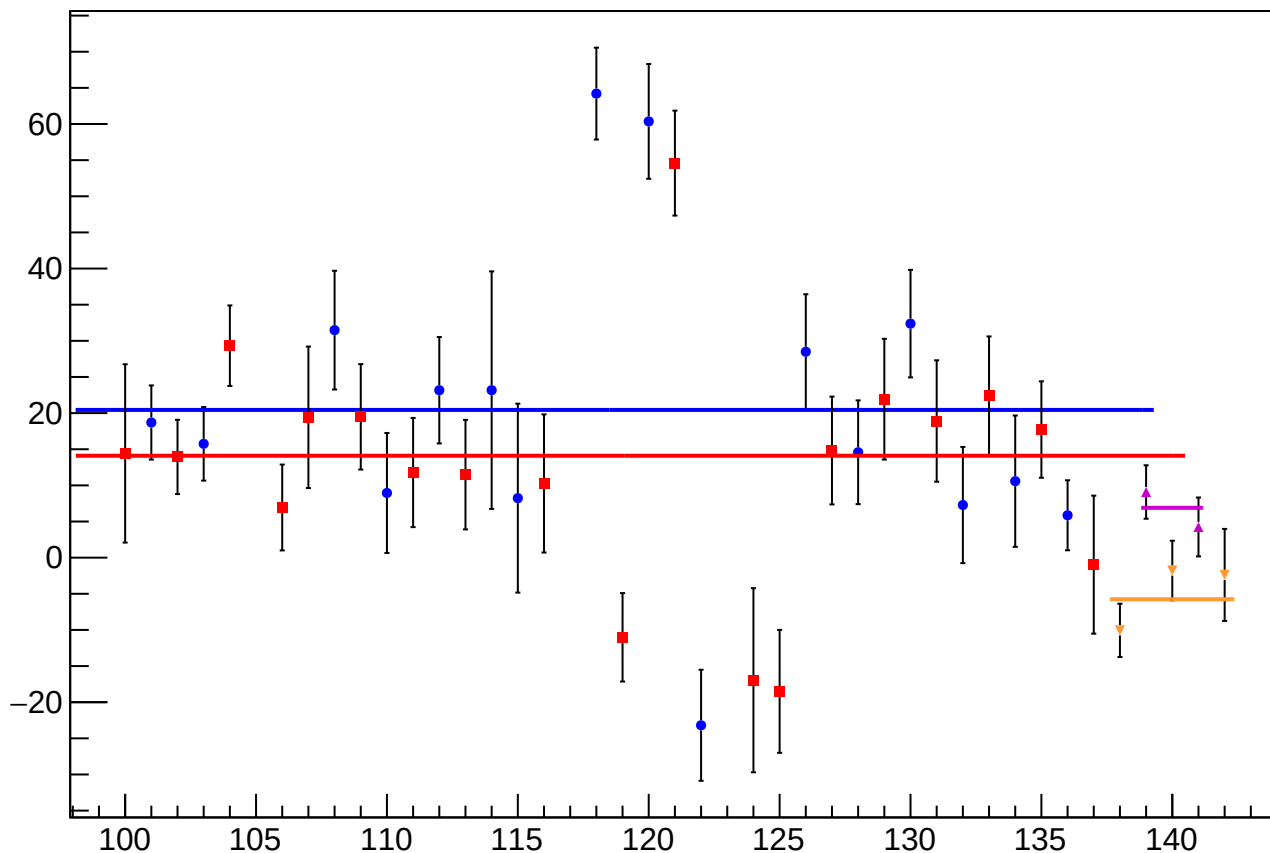
Right: 76689.749+/-14.251 χ^2/NDF : 483732.7/34

In: 76606.399+/-18.228 χ^2/NDF :254643.7/17

Out: 76254.146+/-17.563 χ^2/NDF :248093.7/21

All: 76423.725+/-12.648 χ^2/NDF : 502931.1/3

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.441 $\pm$ 1.782 χ^2 /NDF: 127.8/15

Left Out: -5.755 $\pm$ 2.524 χ^2 /NDF:2.6/2

Right Out: 14.102 $\pm$ 1.714 χ^2 /NDF: 83.8/18

Left In: 6.898 $\pm$ 2.739 χ^2 /NDF:0.8/1

Left: 0.057 $\pm$ 1.856 χ^2 /NDF: 14.9/4

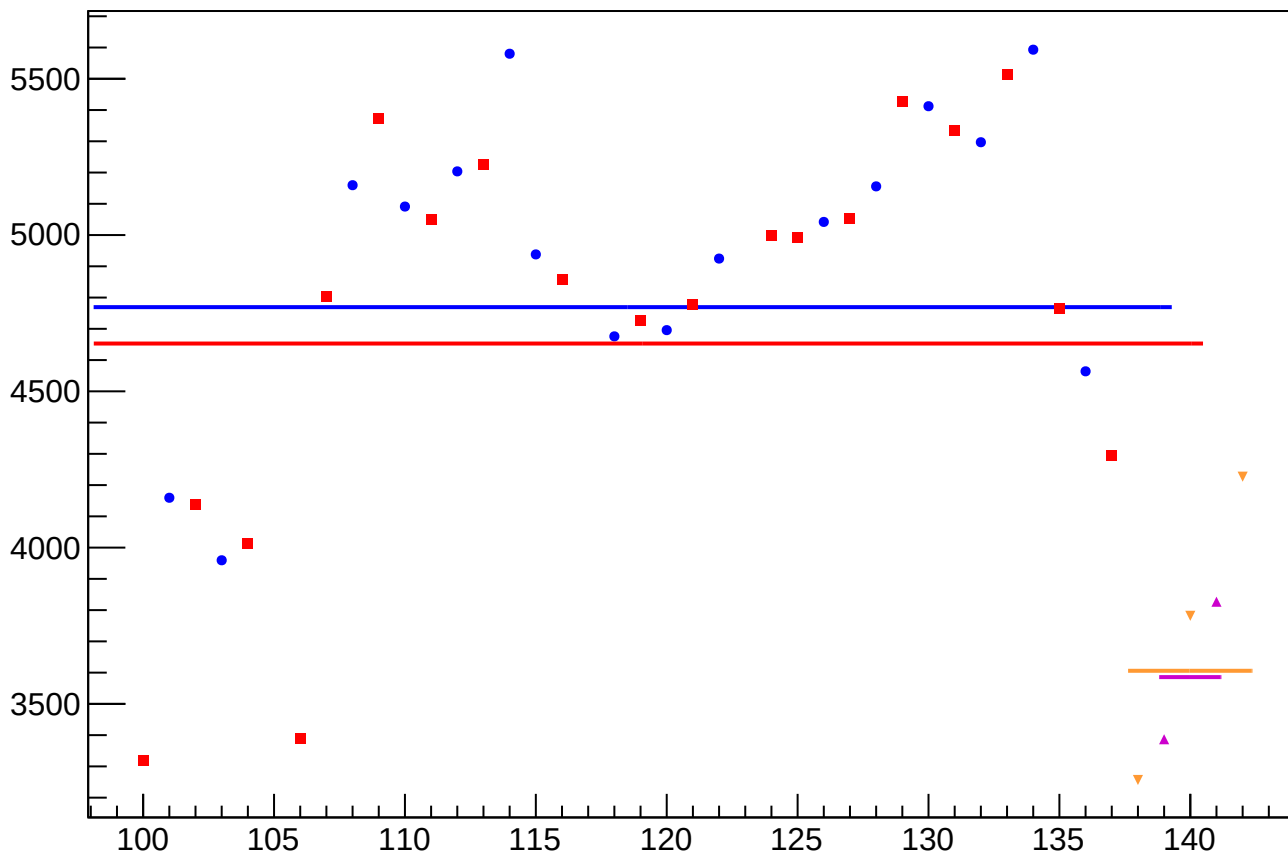
Right: 17.148 $\pm$ 1.235 χ^2 /NDF: 218.2/34

In: 16.413 $\pm$ 1.494 χ^2 /NDF:145.8/17

Out: 7.839 $\pm$ 1.418 χ^2 /NDF:128.7/21

All: 11.903 $\pm$ 1.028 χ^2 /NDF: 291.8/39

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 4769.375+/-1.260 χ^2/NDF : 151678.3/15

Left Out: 3605.905+/-1.785 χ^2/NDF : 40595.0/2

Right Out: 4652.924+/-1.212 χ^2/NDF : 265116.1/18

Left In: 3585.682+/-1.937 χ^2/NDF : 12785.7/1

Left: 3596.615+/-1.313 χ^2/NDF : 53439.7/4

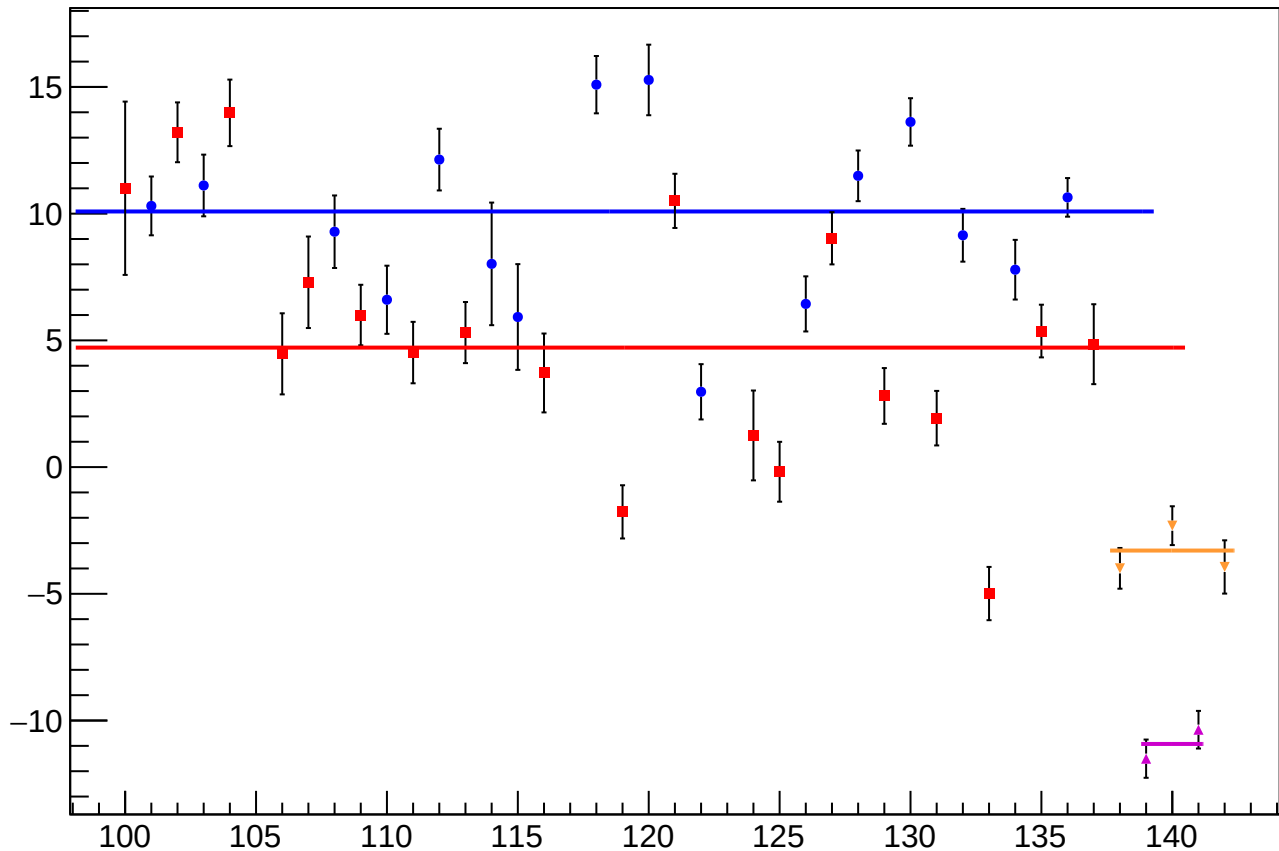
Right: 4708.872+/-0.873 χ^2/NDF : 421232.0/34

In: 4417.293+/-1.056 χ^2/NDF : 426955.9/17

Out: 4322.665+/-1.003 χ^2/NDF : 541233.2/21

All: 4367.517+/-0.727 χ^2/NDF : 972411.9/39

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 10.086 $\pm$ 0.288 χ^2/NDF : 123.9/15

Left Out: -3.293 $\pm$ 0.490 χ^2/NDF : 2.8/2

Right Out: 4.715 $\pm$ 0.286 χ^2/NDF : 310.2/18

Left In: -10.925 $\pm$ 0.529 χ^2/NDF : 1.2/1

Left: -6.819 $\pm$ 0.360 χ^2/NDF : 115.8/4

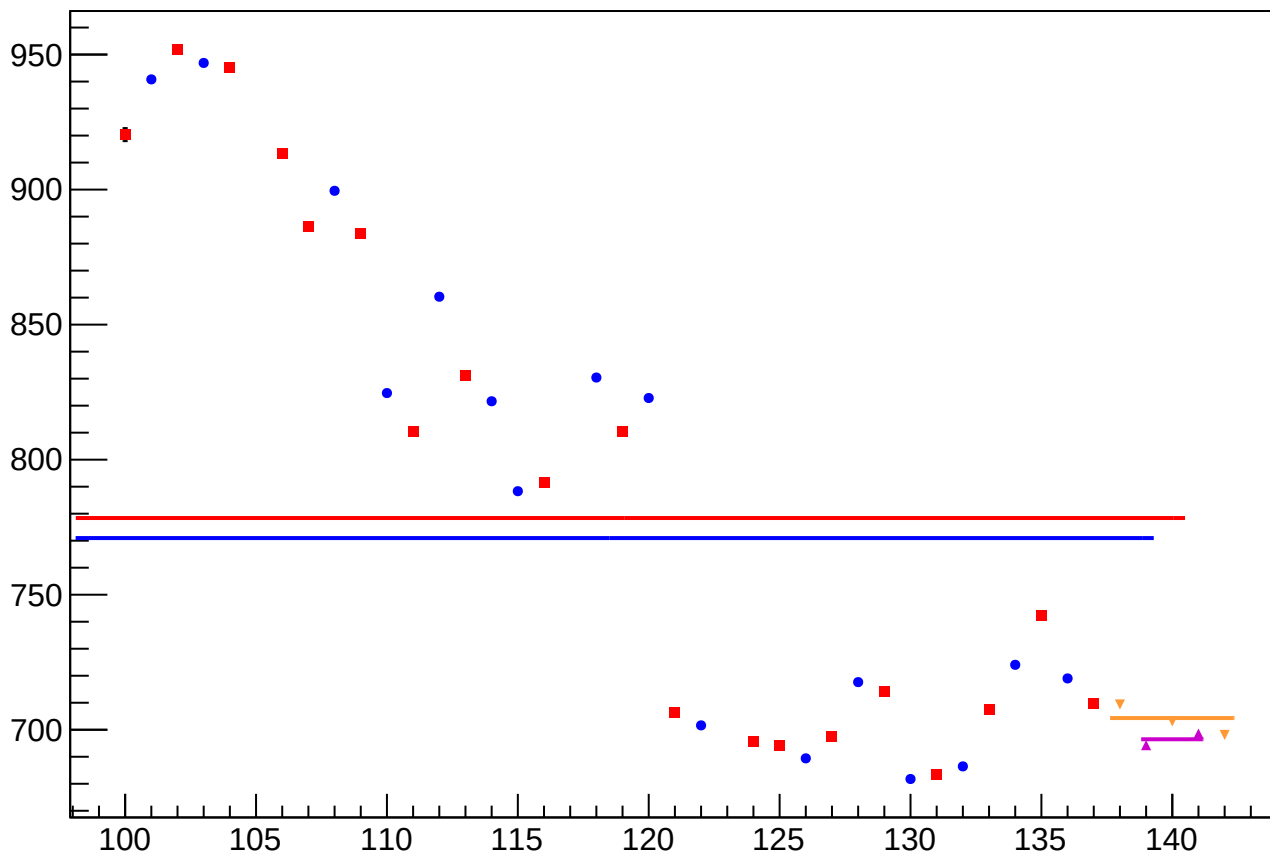
Right: 7.376 $\pm$ 0.203 χ^2/NDF : 609.2/34

In: 5.276 $\pm$ 0.253 χ^2/NDF : 1340.3/17

Out: 2.685 $\pm$ 0.247 χ^2/NDF : 512.1/21

All: 3.948 $\pm$ 0.177 χ^2/NDF : 1906.1/39

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 770.973+/-0.204 χ^2/NDF : 192911.9/15

Left Out: 704.333+/-0.347 χ^2/NDF :154.2/2

Right Out: 778.394+/-0.202 χ^2/NDF : 196544.2/18

Left In: 696.472+/-0.374 χ^2/NDF :32.9/1

Left: 700.701+/-0.254 χ^2/NDF : 424.5/4

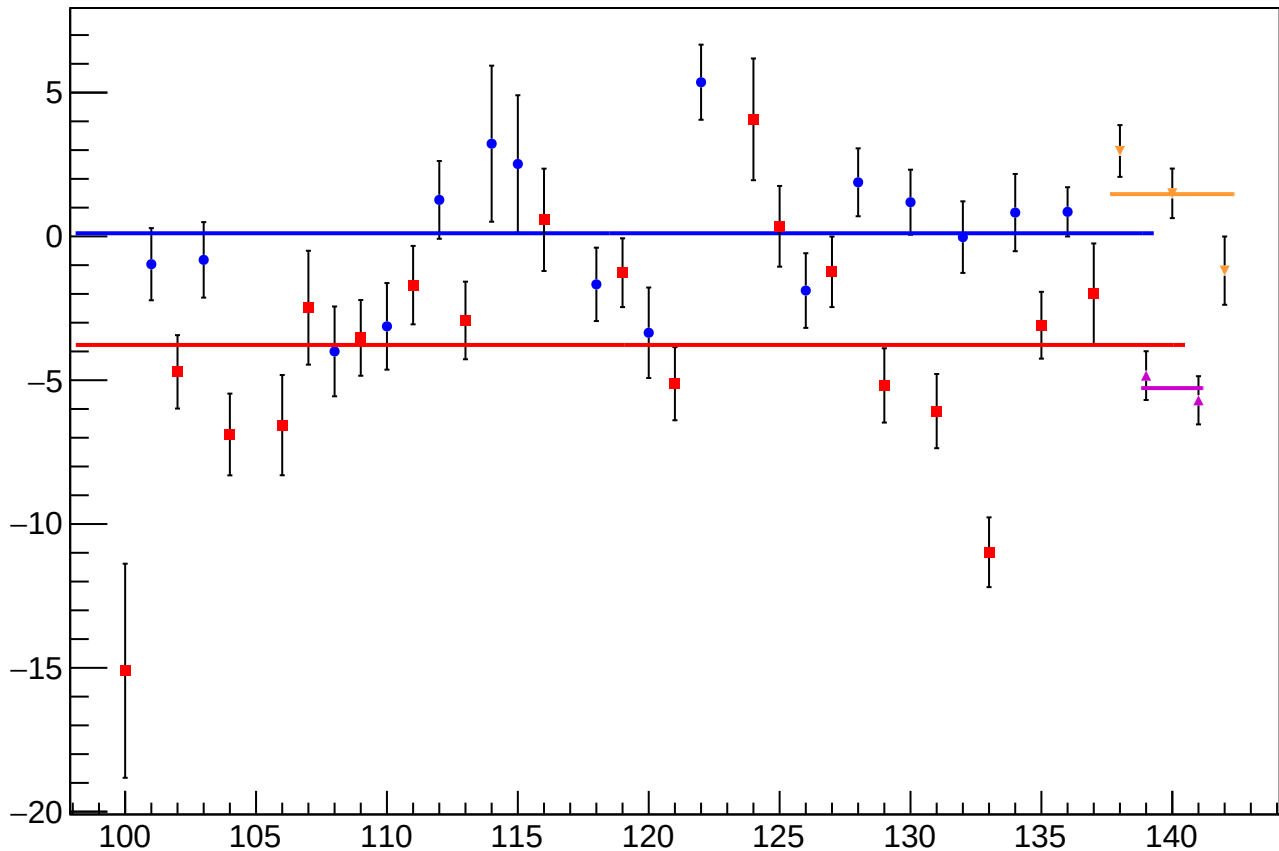
Right: 774.717+/-0.144 χ^2/NDF : 390124.3/34

In: 753.918+/-0.179 χ^2/NDF :223503.7/17

Out: 759.622+/-0.175 χ^2/NDF :230749.0/21

All: 756.842+/-0.125 χ^2/NDF : 454772.8/39

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.109 ± 0.330 $\chi^2/\text{NDF}: 45.4/15$

Left Out: 1.470 ± 0.551 $\chi^2/\text{NDF}: 7.8/2$

Right Out: -3.774 ± 0.326 $\chi^2/\text{NDF}: 99.6/18$

Left In: -5.274 ± 0.596 $\chi^2/\text{NDF}: 0.5/1$

Left: -1.638 ± 0.405 $\chi^2/\text{NDF}: 77.4/4$

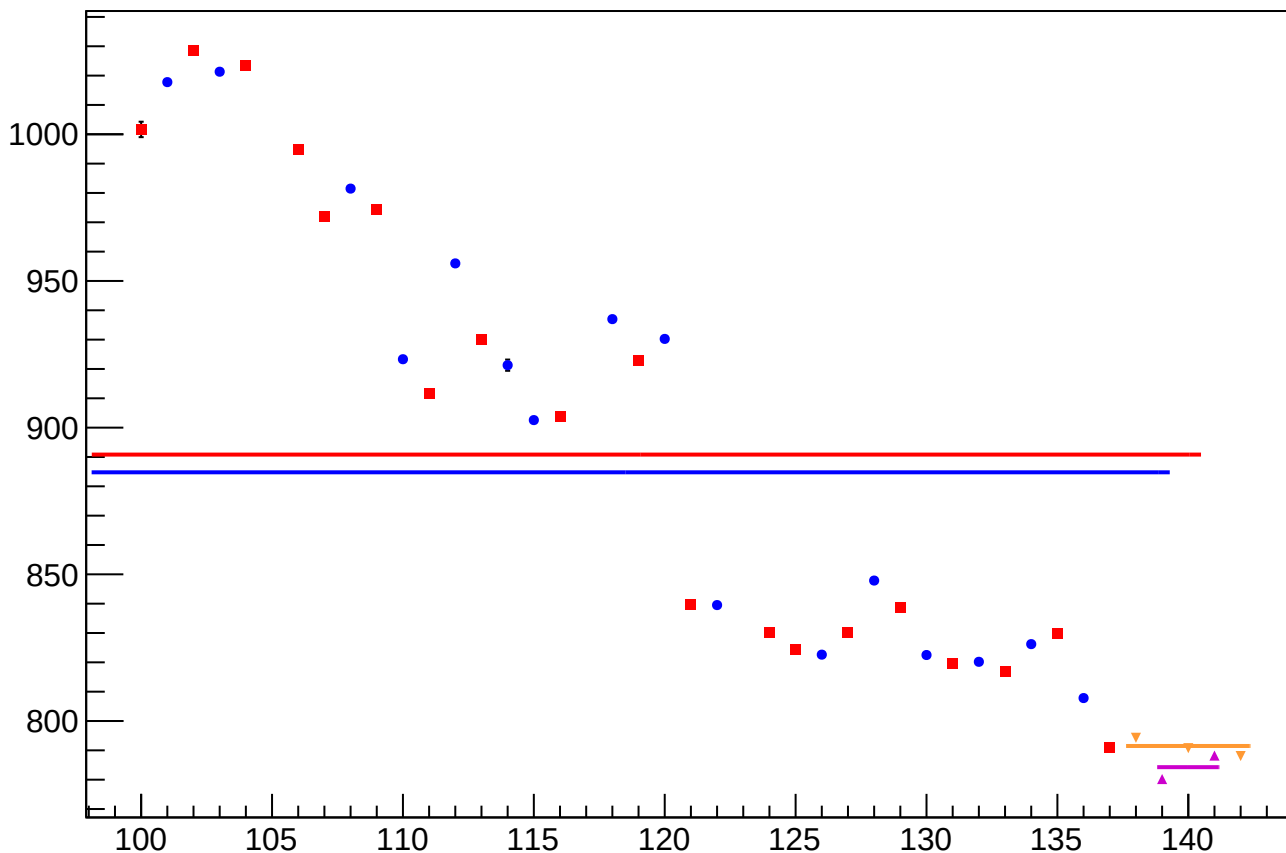
Right: -1.855 ± 0.232 $\chi^2/\text{NDF}: 215.0/34$

In: -1.153 ± 0.289 $\chi^2/\text{NDF}: 108.3/17$

Out: -2.414 ± 0.281 $\chi^2/\text{NDF}: 174.4/21$

All: -1.801 ± 0.201 $\chi^2/\text{NDF}: 292.6/39$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 884.773+/-0.233 χ^2/NDF : 104494.1/15

Left Out: 791.487+/-0.390 χ^2/NDF : 37.5/2

Right Out: 890.815+/-0.231 χ^2/NDF : 107763.6/18

Left In: 784.267+/-0.421 χ^2/NDF : 90.1/1

Left: 788.160+/-0.286 χ^2/NDF : 285.8/4

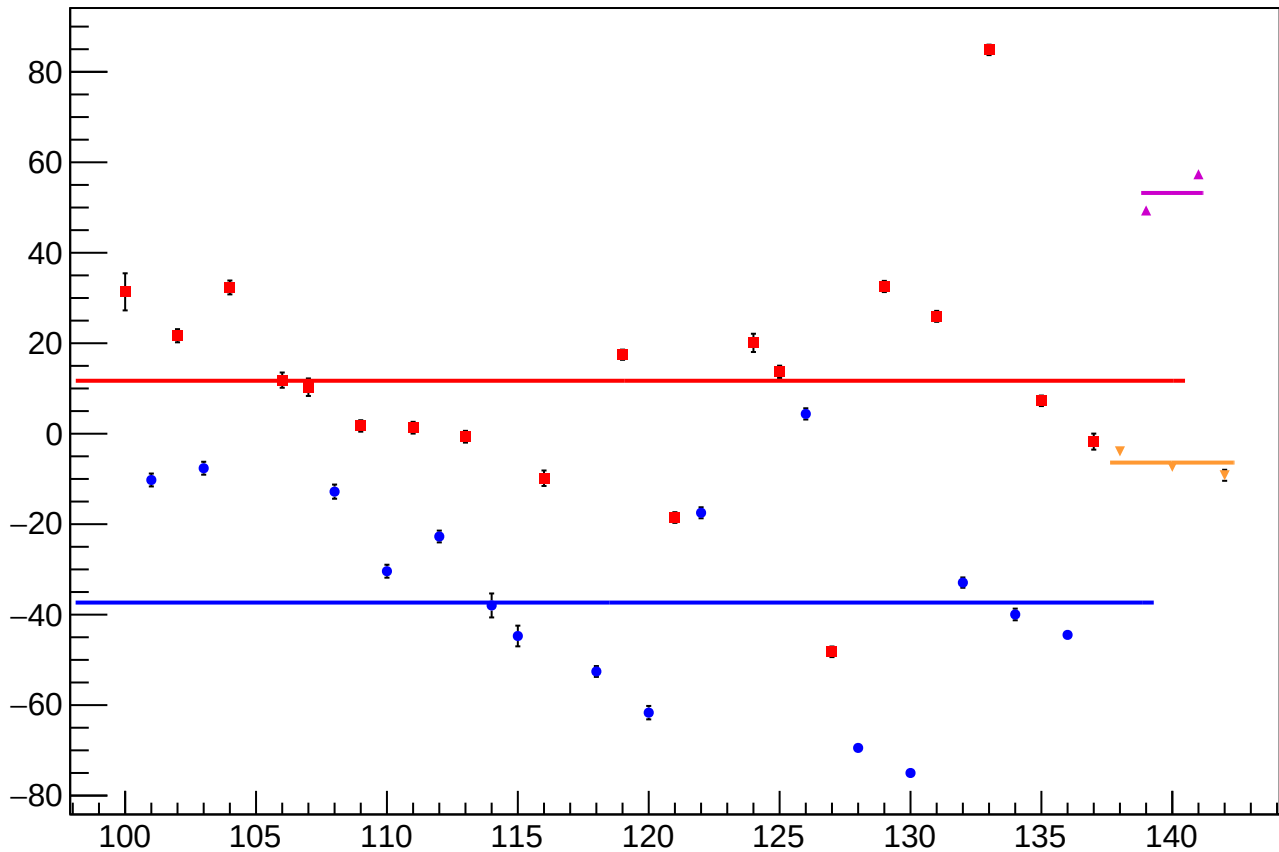
Right: 887.830+/-0.164 χ^2/NDF : 212597.1/34

In: 861.203+/-0.204 χ^2/NDF : 148116.1/17

Out: 865.057+/-0.198 χ^2/NDF : 155933.2/21

All: 863.184+/-0.142 χ^2/NDF : 304232.5/39

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -37.330 ± 0.322 $\chi^2/\text{NDF}: 5184.7/15$

Left Out: -6.383 ± 0.556 $\chi^2/\text{NDF}: 14.2/2$

Right Out: 11.706 ± 0.318 $\chi^2/\text{NDF}: 8463.6/18$

Left In: 53.224 ± 0.607 $\chi^2/\text{NDF}: 43.4/1$

Left: 20.826 ± 0.410 $\chi^2/\text{NDF}: 5296.4/4$

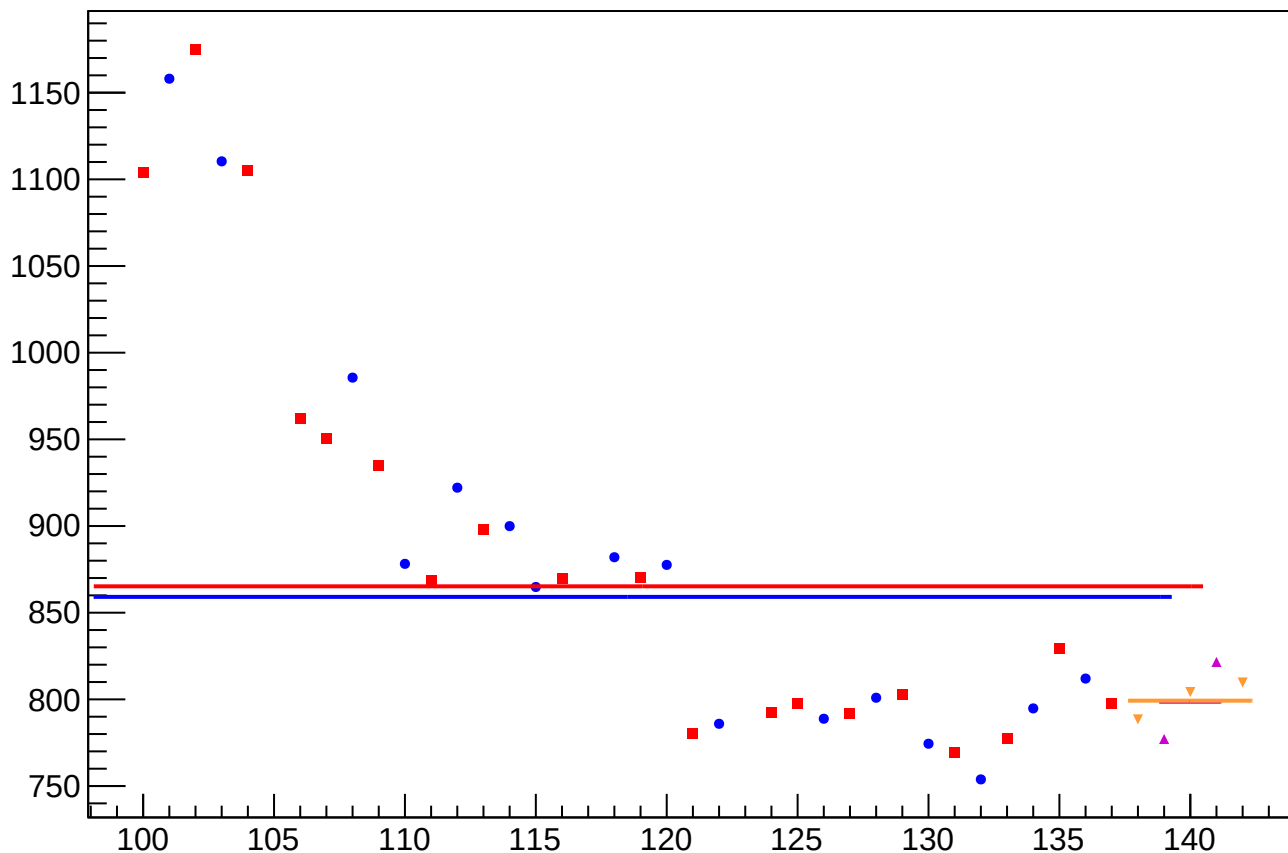
Right: -12.519 ± 0.226 $\chi^2/\text{NDF}: 25401.8/34$

In: -17.476 ± 0.284 $\chi^2/\text{NDF}: 22596.2/17$

Out: 7.254 ± 0.276 $\chi^2/\text{NDF}: 9274.6/21$

All: -4.747 ± 0.198 $\chi^2/\text{NDF}: 35766.0/39$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 859.126 $\pm$ 0.228 χ^2 /NDF: 228710.0/15

Left Out: 799.247 $\pm$ 0.393 χ^2 /NDF:504.7/2

Right Out: 865.213 $\pm$ 0.225 χ^2 /NDF: 223669.1/18

Left In: 798.637 $\pm$ 0.429 χ^2 /NDF:2676.8/1

Left: 798.969 $\pm$ 0.290 χ^2 /NDF: 3182.6/4

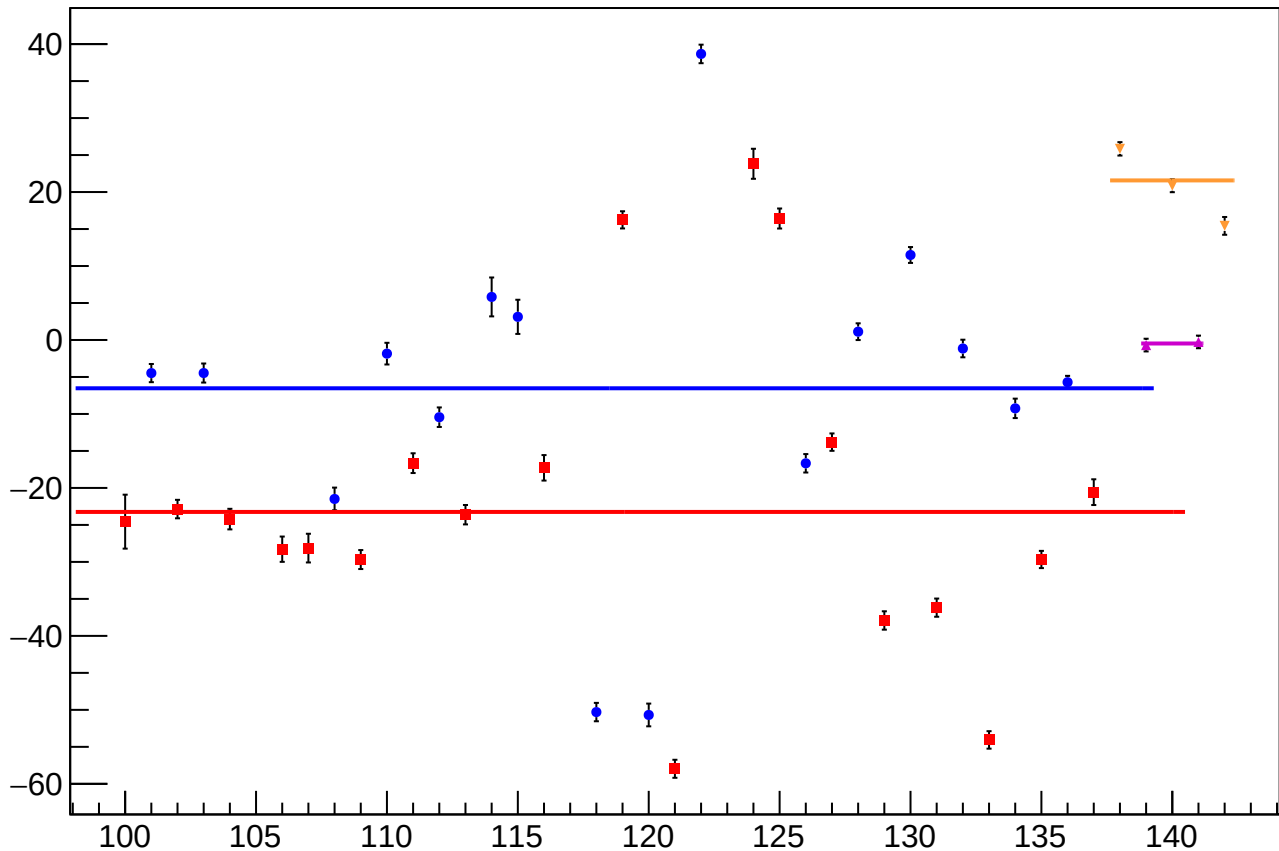
Right: 862.206 $\pm$ 0.160 χ^2 /NDF: 452741.3/34

In: 845.864 $\pm$ 0.201 χ^2 /NDF:246886.4/17

Out: 848.978 $\pm$ 0.195 χ^2 /NDF:245366.9/21

All: 847.467 $\pm$ 0.140 χ^2 /NDF: 492376.8/39

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.529 ± 0.321 χ^2/NDF : 3946.1/15

Left Out: 21.571 ± 0.558 χ^2/NDF : 48.9/2

Right Out: -23.244 ± 0.317 χ^2/NDF : 4470.0/18

Left In: -0.474 ± 0.606 χ^2/NDF : 0.1/1

Left: 11.456 ± 0.410 χ^2/NDF : 765.4/4

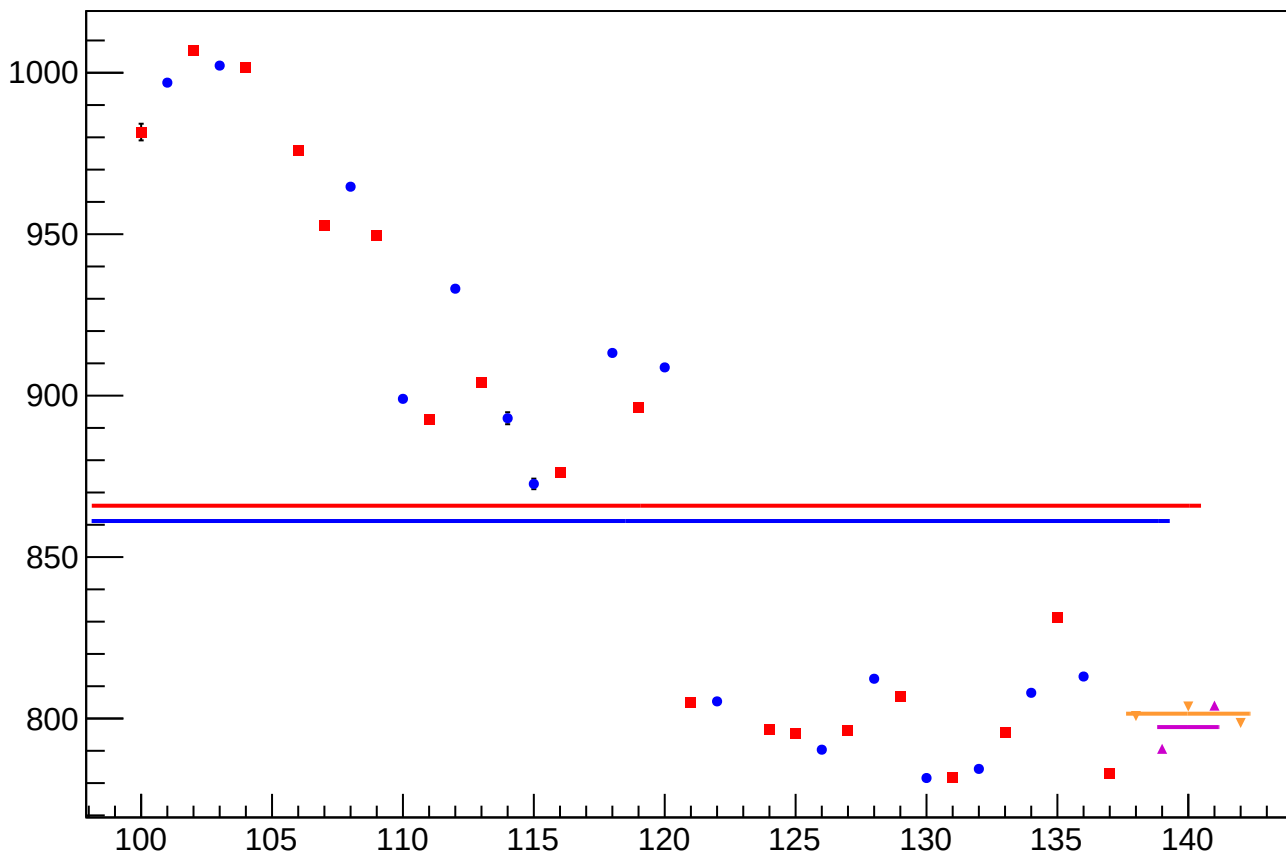
Right: -14.995 ± 0.226 χ^2/NDF : 9787.9/34

In: -5.200 ± 0.284 χ^2/NDF : 4024.2/17

Out: -12.307 ± 0.276 χ^2/NDF : 9395.8/21

All: -8.857 ± 0.198 χ^2/NDF : 13742.6/39

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 861.169+/-0.227 χ^2/NDF : 113529.7/15

Left Out: 801.497+/-0.395 χ^2/NDF :25.6/2

Right Out: 865.907+/-0.224 χ^2/NDF : 118418.0/18

Left In: 797.350+/-0.428 χ^2/NDF :243.6/1

Left: 799.594+/-0.290 χ^2/NDF : 320.0/4

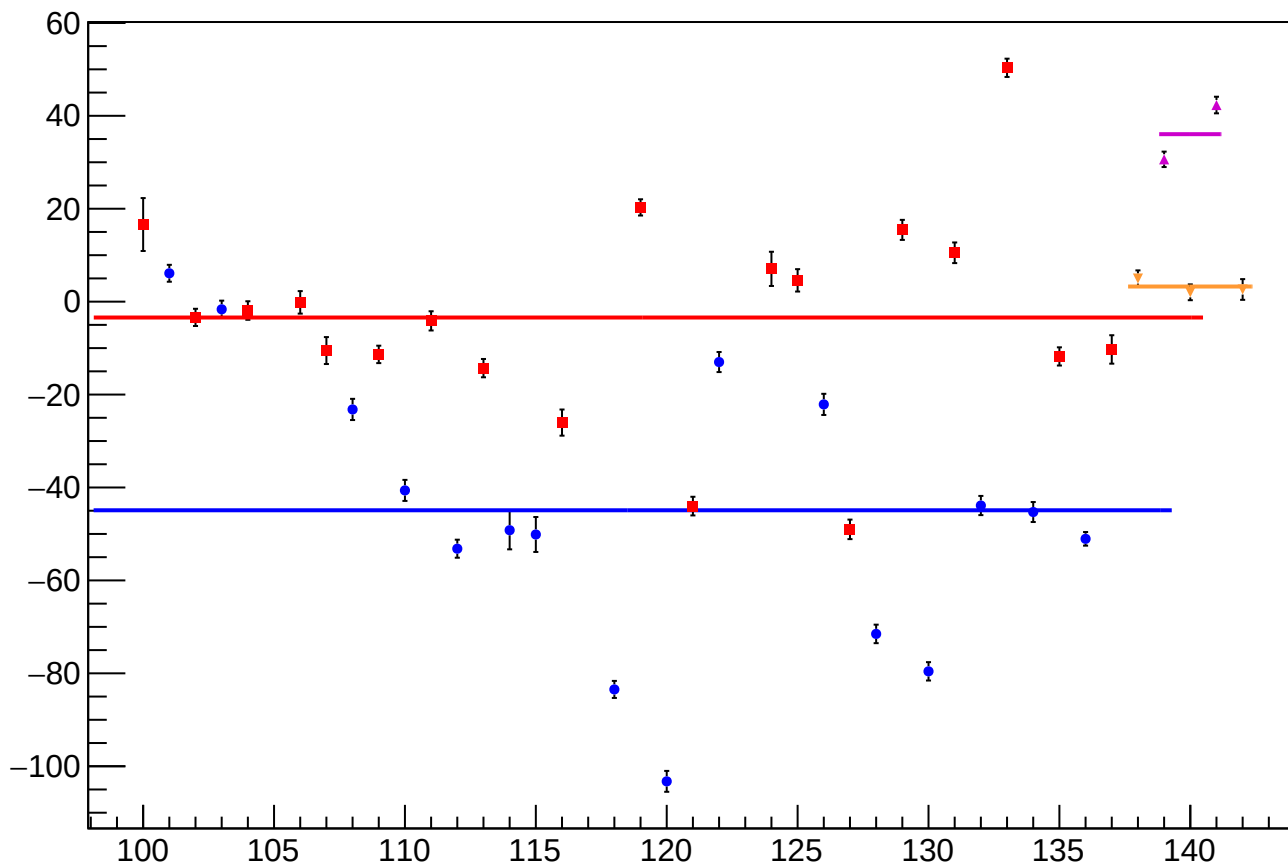
Right: 863.569+/-0.160 χ^2/NDF : 232168.2/34

In: 847.171+/-0.201 χ^2/NDF :131093.5/17

Out: 850.188+/-0.195 χ^2/NDF :138591.8/21

All: 848.723+/-0.140 χ^2/NDF : 269801.6/39

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -44.905 +/- 0.520 χ^2/NDF : 3377.6/15

Left Out: 3.256 +/- 1.071 χ^2/NDF : 1.6/2

Right Out: -3.416 +/- 0.509 χ^2/NDF : 2102.1/18

Left In: 36.047 +/- 1.216 χ^2/NDF : 23.0/1

Left: 17.582 +/- 0.804 χ^2/NDF : 433.7/4

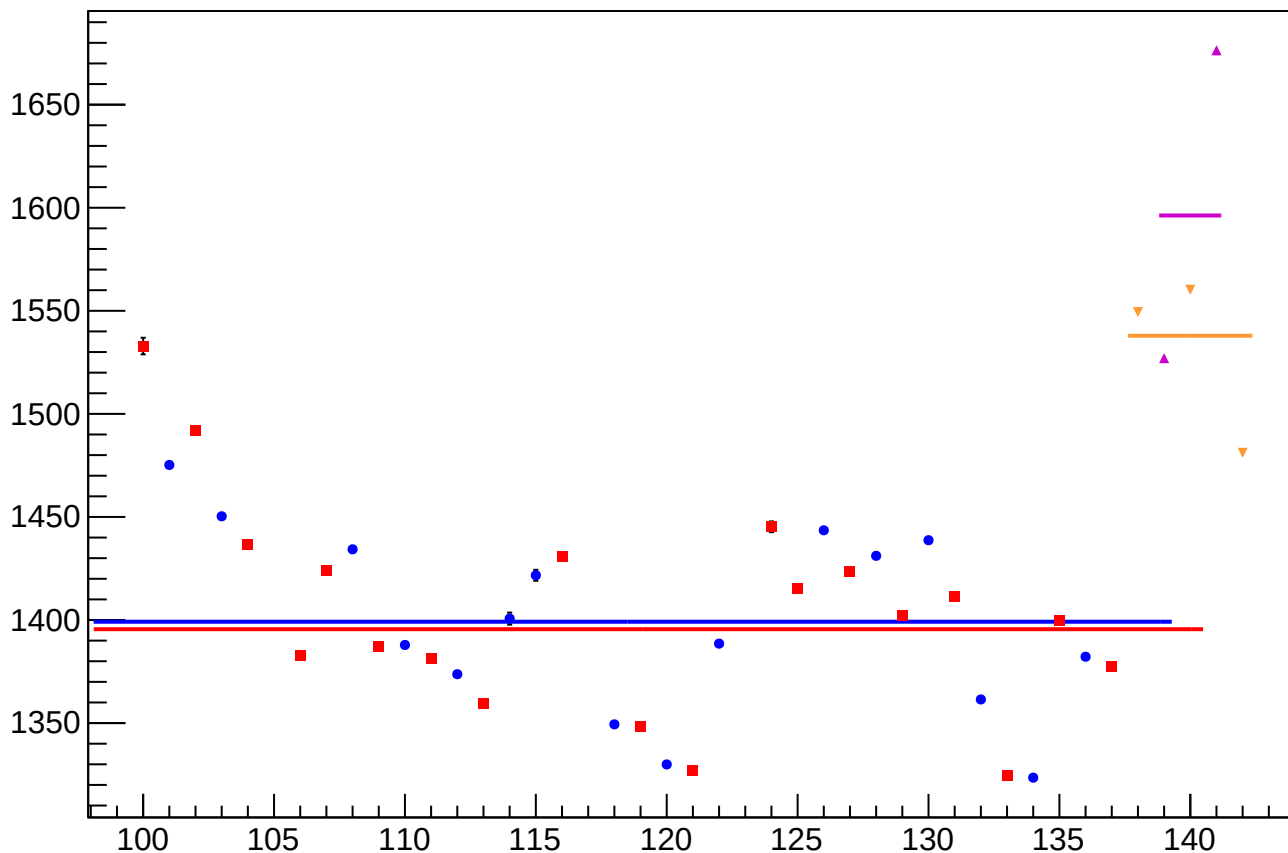
Right: -23.727 +/- 0.364 χ^2/NDF : 8730.3/34

In: -32.402 +/- 0.478 χ^2/NDF : 7145.2/17

Out: -2.187 +/- 0.460 χ^2/NDF : 2135.3/21

All: -16.709 +/- 0.331 χ^2/NDF : 11355.2/39

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1399.172 $\pm$ 0.368 χ^2 /NDF: 14844.1/15

Left Out: 1537.909 $\pm$ 0.758 χ^2 /NDF:1724.9/2

Right Out: 1395.546 $\pm$ 0.360 χ^2 /NDF: 16240.9/18

Left In: 1596.249 $\pm$ 0.860 χ^2 /NDF:7496.2/1

Left: 1563.396 $\pm$ 0.569 χ^2 /NDF: 11811.7/4

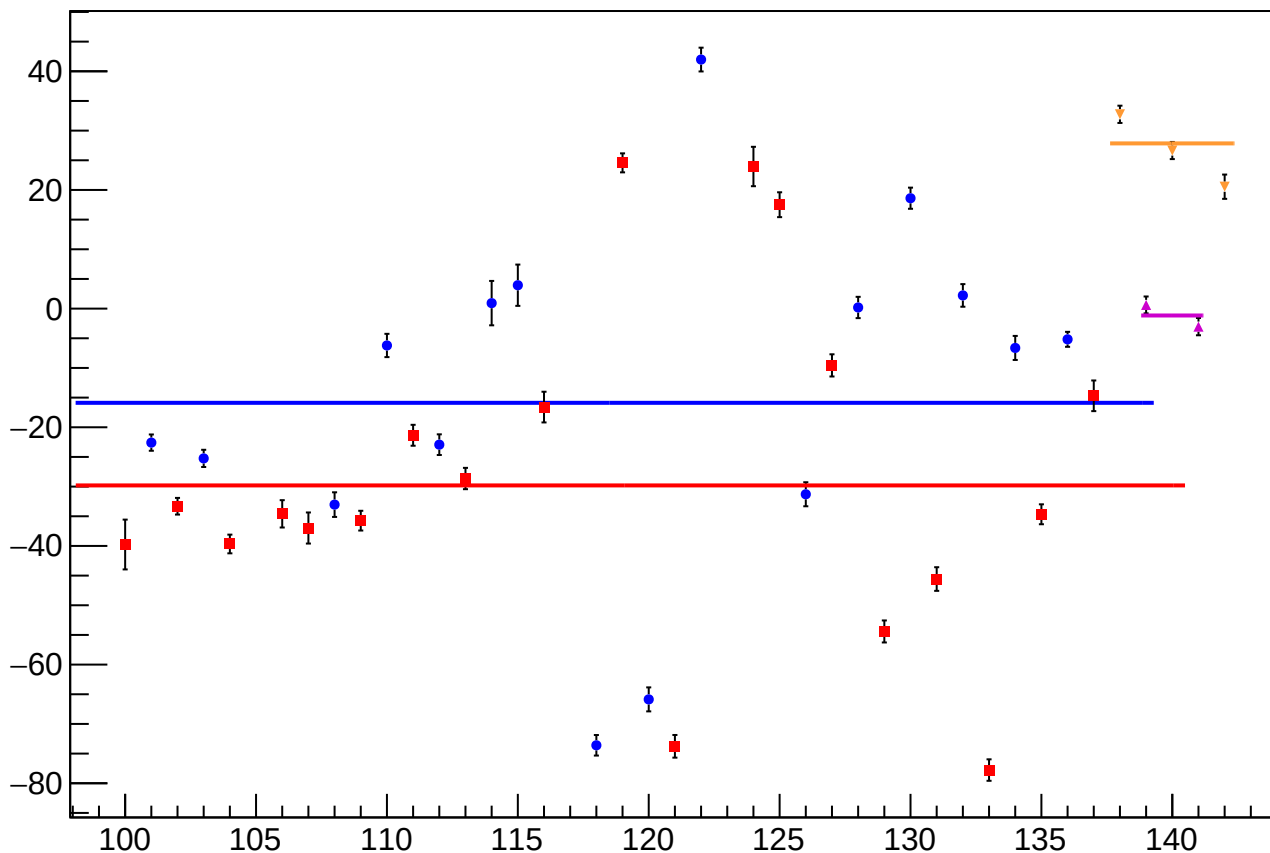
Right: 1397.321 $\pm$ 0.257 χ^2 /NDF: 31134.7/34

In: 1429.611 $\pm$ 0.338 χ^2 /NDF:66727.6/17

Out: 1421.772 $\pm$ 0.325 χ^2 /NDF:46770.2/21

All: 1425.539 $\pm$ 0.234 χ^2 /NDF: 113777.1/39

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Left: 14.855 +/- 0.681 χ^2/NDF : 476.5/4

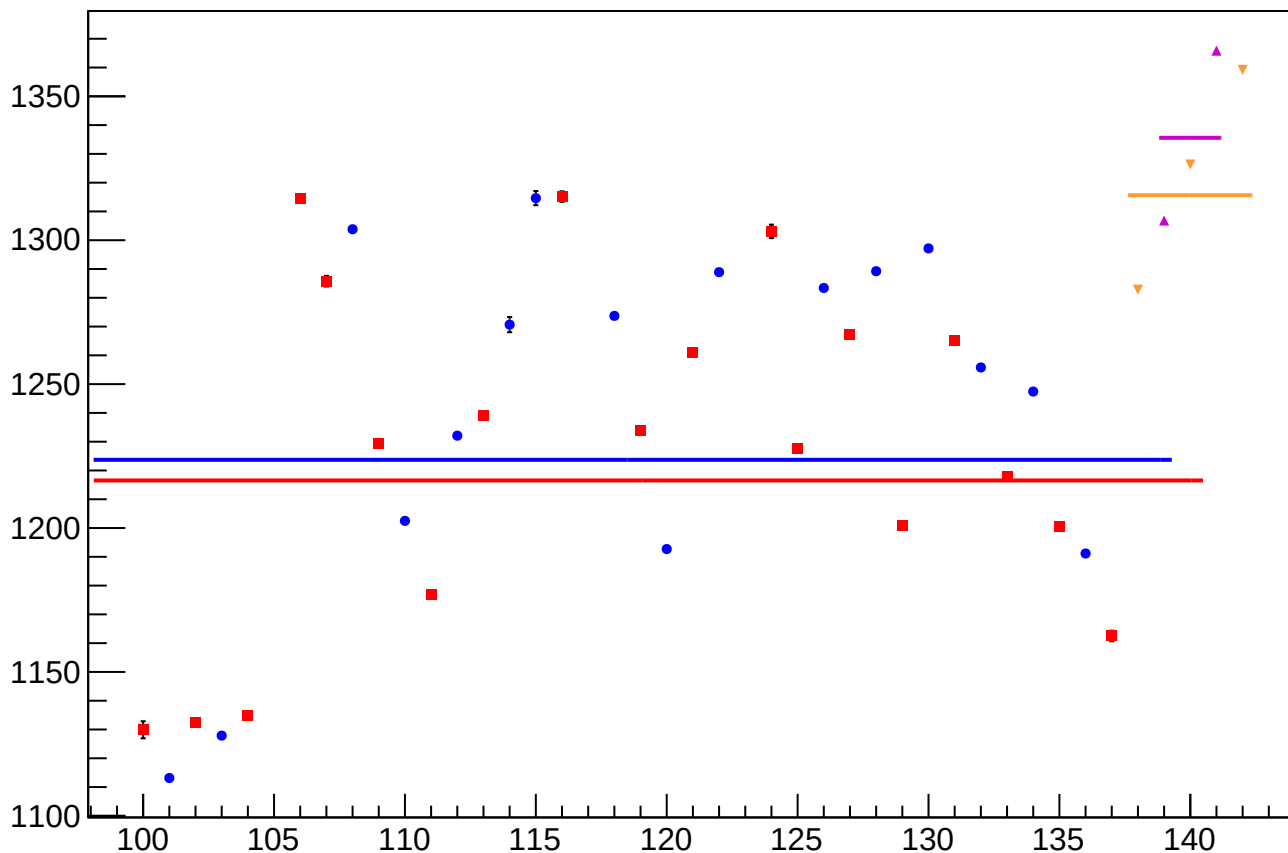
Right: -23.008 +/- 0.318 χ^2/NDF : 7638.0/34

In: -13.424 +/- 0.416 χ^2/NDF : 3655.3/17

Out: -18.830 +/- 0.400 χ^2/NDF : 6908.9/21

All: -16.231 +/- 0.288 χ^2/NDF : 10652.1/39

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1223.702 $\pm$ 0.322 χ^2 /NDF: 40883.8/15

Left Out: 1315.630 $\pm$ 0.648 χ^2 /NDF:2031.9/2

Right Out: 1216.533 $\pm$ 0.314 χ^2 /NDF: 29381.0/18

Left In: 1335.590 $\pm$ 0.720 χ^2 /NDF:1680.5/1

Left: 1324.570 $\pm$ 0.482 χ^2 /NDF: 4137.1/4

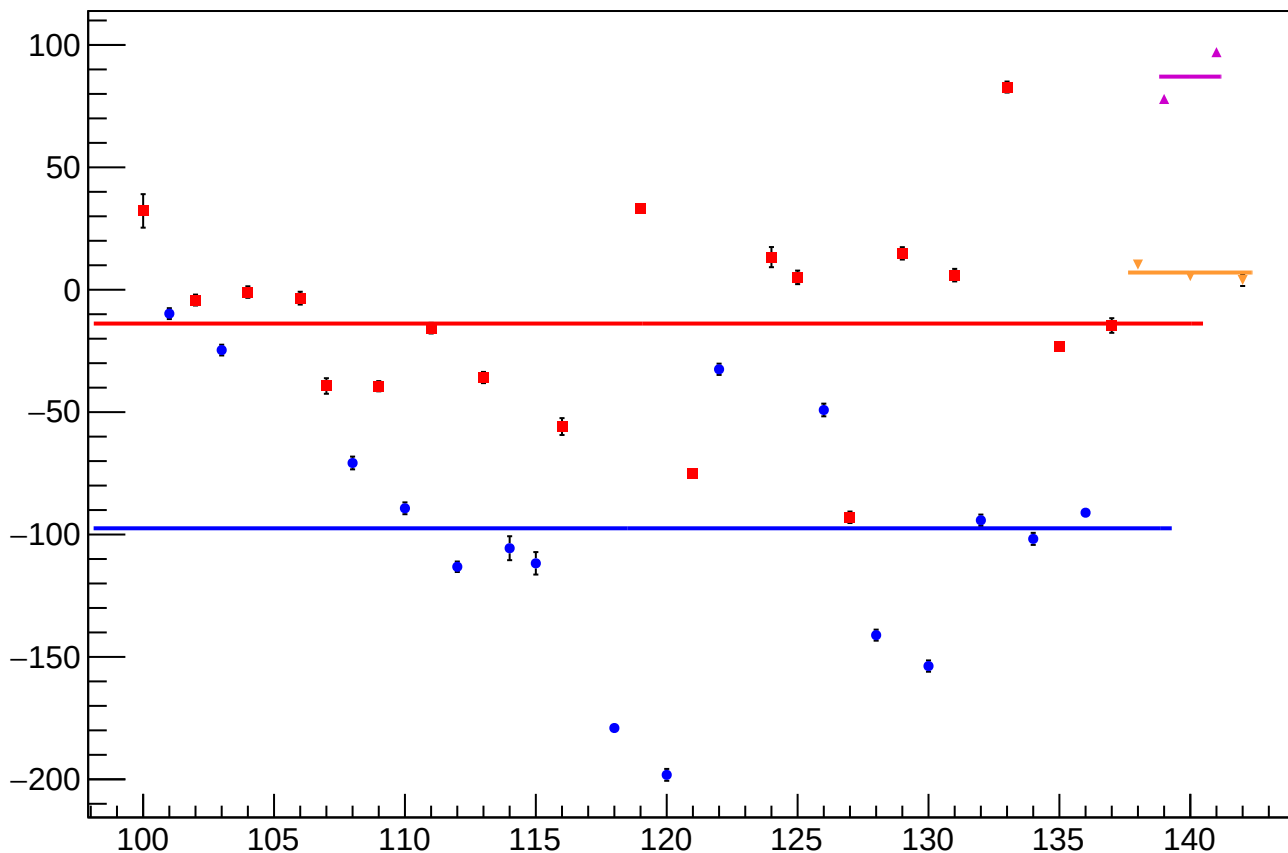
Right: 1220.031 $\pm$ 0.225 χ^2 /NDF: 70518.8/34

In: 1242.360 $\pm$ 0.294 χ^2 /NDF:62710.6/17

Out: 1235.392 $\pm$ 0.283 χ^2 /NDF:50343.0/21

All: 1238.742 $\pm$ 0.204 χ^2 /NDF: 113345.5/39

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.455 ± 0.579 $\chi^2/\text{NDF}: 8300.2/15$

Left Out: 7.033 ± 1.129 $\chi^2/\text{NDF}: 5.4/2$

Right Out: -13.816 ± 0.566 $\chi^2/\text{NDF}: 5352.2/18$

Left In: 87.064 ± 1.263 $\chi^2/\text{NDF}: 57.1/1$

Left: 42.558 ± 0.842 $\chi^2/\text{NDF}: 2293.8/4$

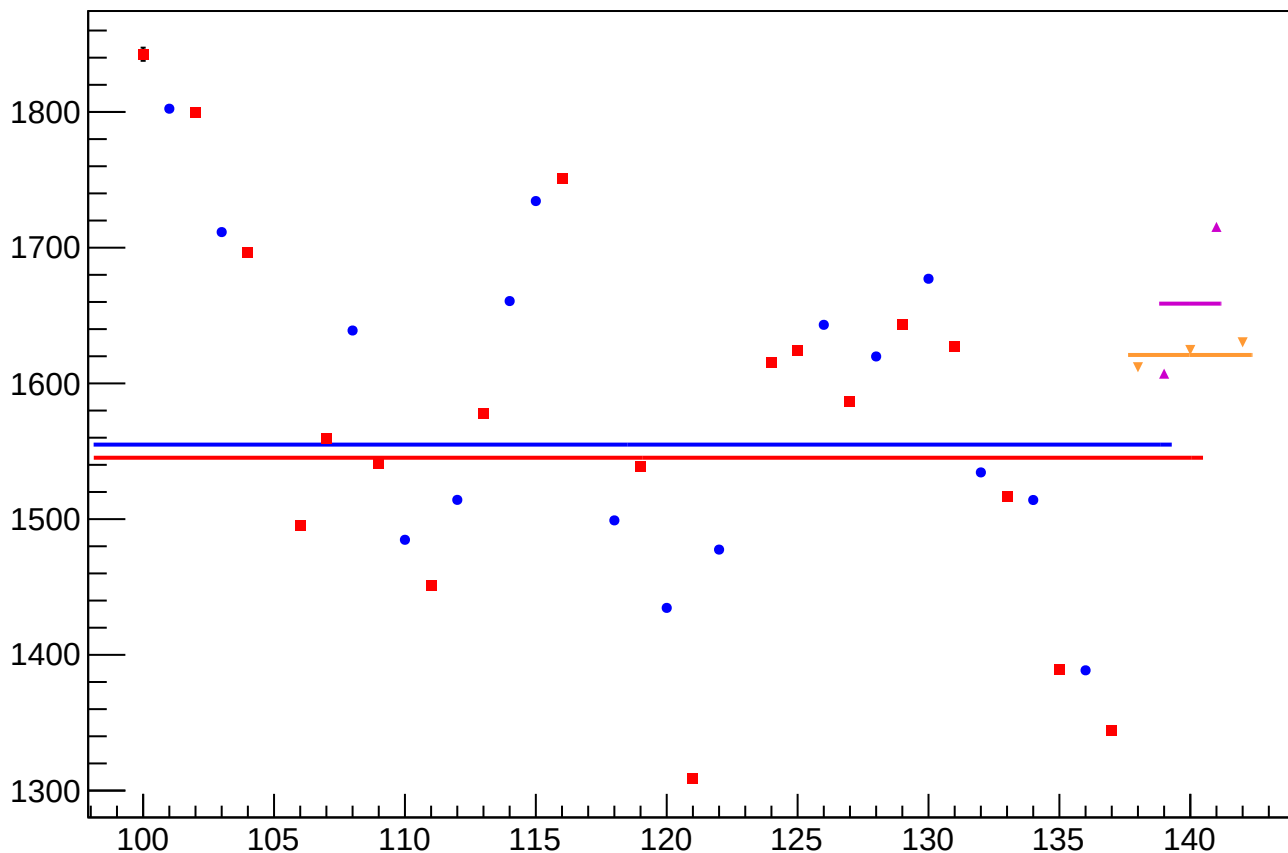
Right: -54.632 ± 0.405 $\chi^2/\text{NDF}: 24320.8/34$

In: -65.391 ± 0.527 $\chi^2/\text{NDF}: 25980.0/17$

Out: -9.631 ± 0.506 $\chi^2/\text{NDF}: 5630.3/21$

All: -36.380 ± 0.365 $\chi^2/\text{NDF}: 37442.0/39$

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1554.908 $\pm$ 0.410 χ^2 /NDF: 87920.1/15

Left Out: 1620.960 $\pm$ 0.798 χ^2 /NDF:86.6/2

Right Out: 1545.239 $\pm$ 0.400 χ^2 /NDF: 108789.4/18

Left In: 1658.772 $\pm$ 0.893 χ^2 /NDF:3654.2/1

Left: 1637.744 $\pm$ 0.595 χ^2 /NDF: 4736.9/4

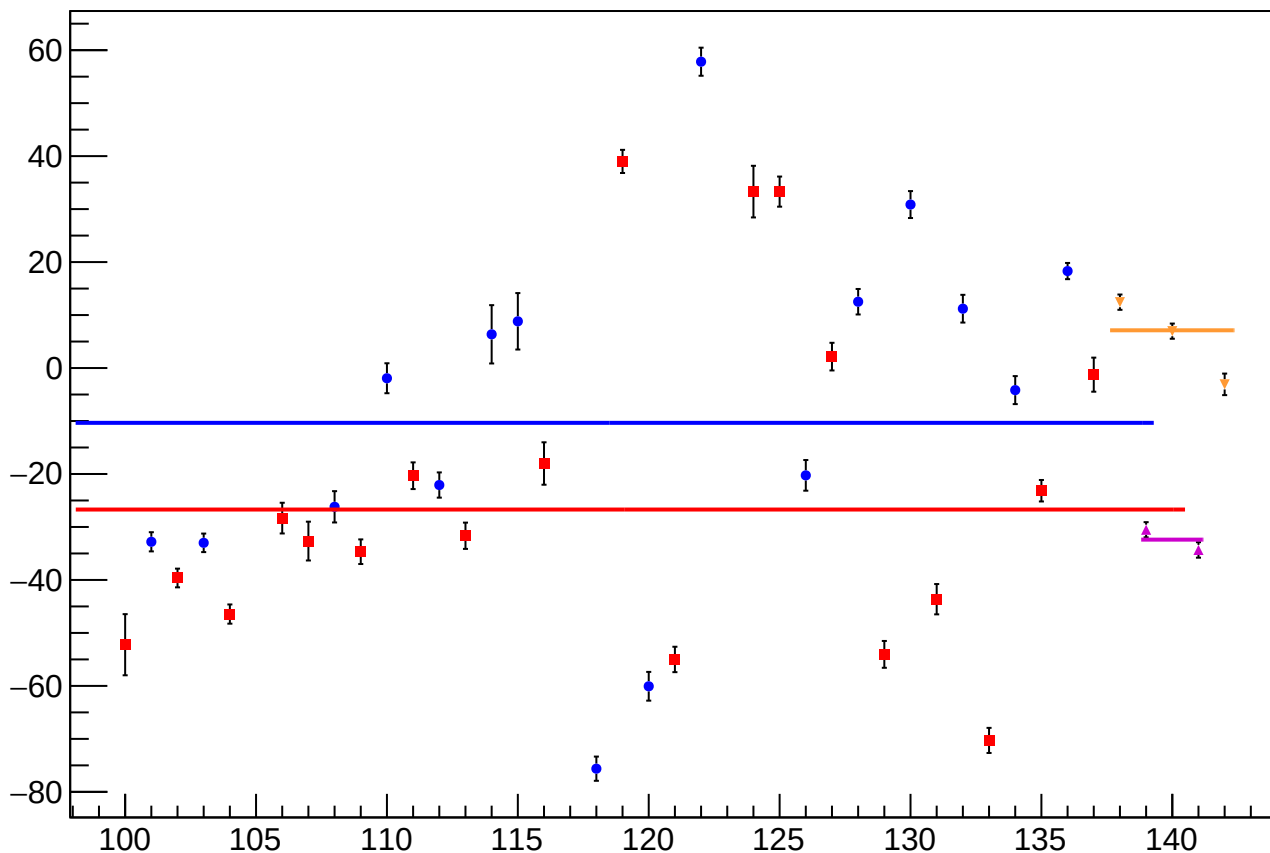
Right: 1549.957 $\pm$ 0.286 χ^2 /NDF: 196994.7/34

In: 1572.957 $\pm$ 0.372 χ^2 /NDF:102741.4/17

Out: 1560.438 $\pm$ 0.358 χ^2 /NDF:116069.6/21

All: 1566.443 $\pm$ 0.258 χ^2 /NDF: 219398.9/39

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -10.345 ± 0.603 $\chi^2/\text{NDF}: 3007.0/15$

Left Out: 7.123 ± 0.909 $\chi^2/\text{NDF}: 38.7/2$

Right Out: -26.709 ± 0.586 $\chi^2/\text{NDF}: 2540.7/18$

Left In: -32.391 ± 1.023 $\chi^2/\text{NDF}: 3.5/1$

Left: -10.320 ± 0.680 $\chi^2/\text{NDF}: 875.5/4$

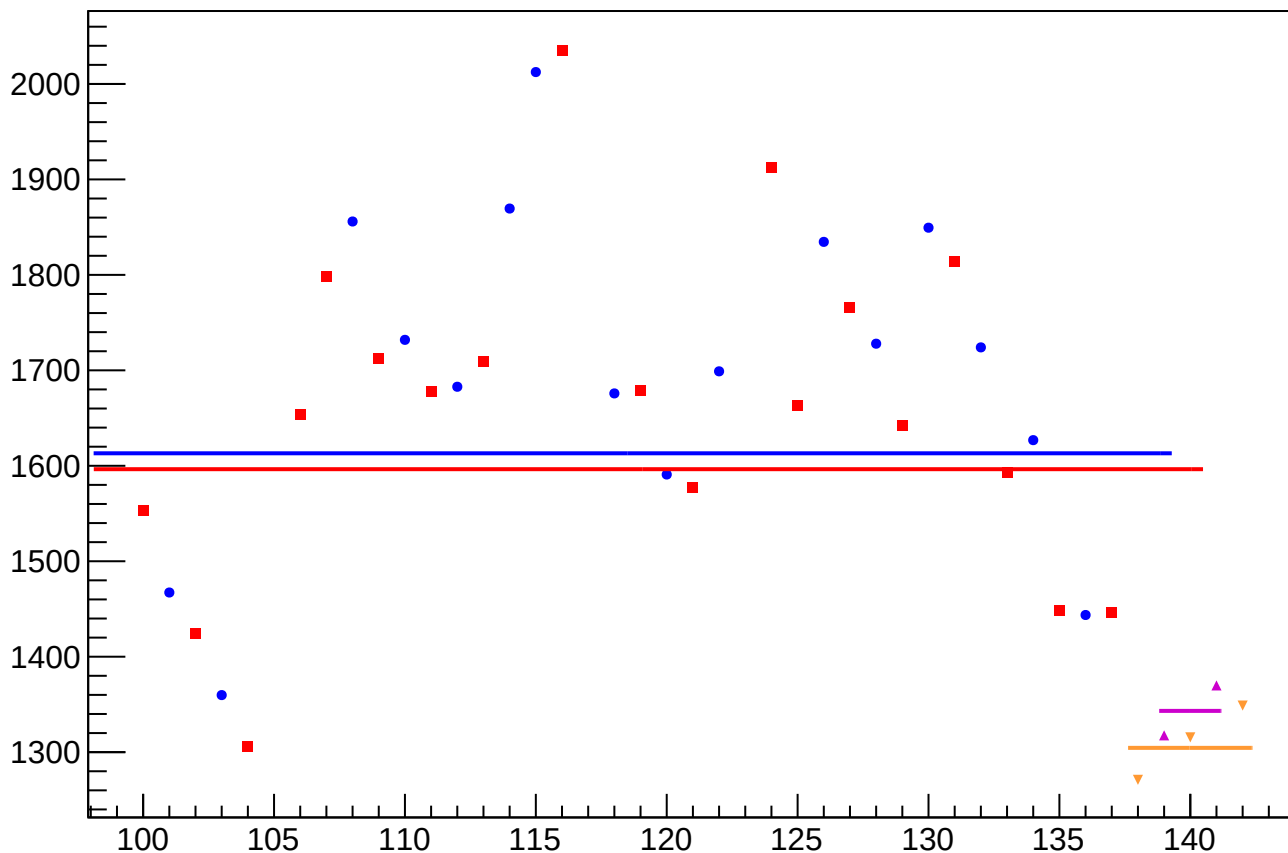
Right: -18.758 ± 0.420 $\chi^2/\text{NDF}: 5926.2/34$

In: -16.031 ± 0.520 $\chi^2/\text{NDF}: 3355.1/17$

Out: -16.776 ± 0.493 $\chi^2/\text{NDF}: 3557.0/21$

All: -16.423 ± 0.358 $\chi^2/\text{NDF}: 6913.1/39$

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1613.094 $\pm$ 0.426 χ^2 /NDF: 154710.6/15

Left Out: 1304.507 $\pm$ 0.643 χ^2 /NDF: 2145.3/2

Right Out: 1596.442 $\pm$ 0.415 χ^2 /NDF: 160714.8/18

Left In: 1343.237 $\pm$ 0.723 χ^2 /NDF: 1306.3/1

Left: 1321.605 $\pm$ 0.481 χ^2 /NDF: 5052.6/4

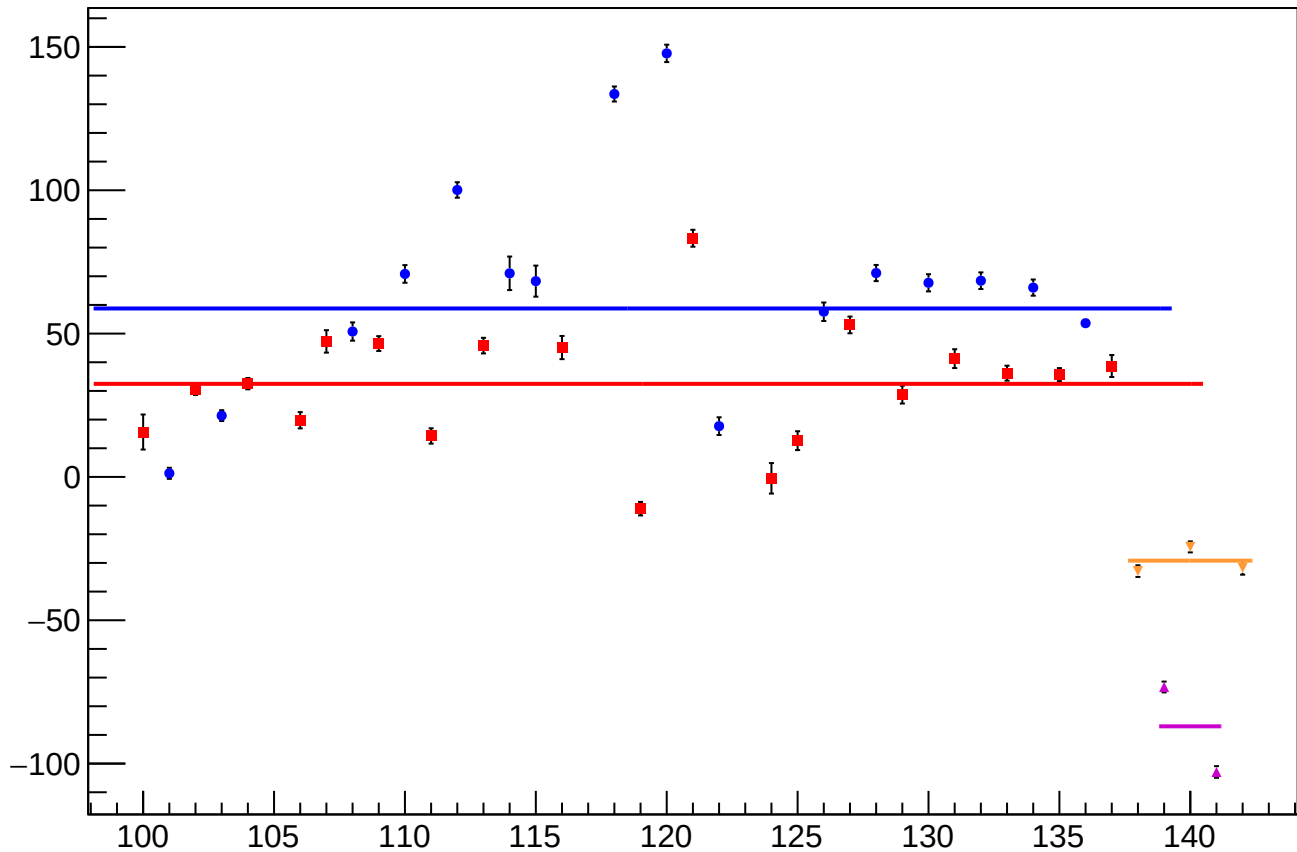
Right: 1604.533 $\pm$ 0.297 χ^2 /NDF: 316209.2/34

In: 1543.490 $\pm$ 0.367 χ^2 /NDF: 259285.3/17

Out: 1510.727 $\pm$ 0.348 χ^2 /NDF: 308422.0/21

All: 1526.243 $\pm$ 0.253 χ^2 /NDF: 571893.7/39

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 58.761 ± 0.672 $\chi^2/\text{NDF}: 3443.3/15$

Left Out: -29.207 ± 1.209 $\chi^2/\text{NDF}: 10.5/2$

Right Out: 32.467 ± 0.648 $\chi^2/\text{NDF}: 930.8/18$

Left In: -86.999 ± 1.381 $\chi^2/\text{NDF}: 114.6/1$

Left: -54.285 ± 0.910 $\chi^2/\text{NDF}: 1116.6/4$

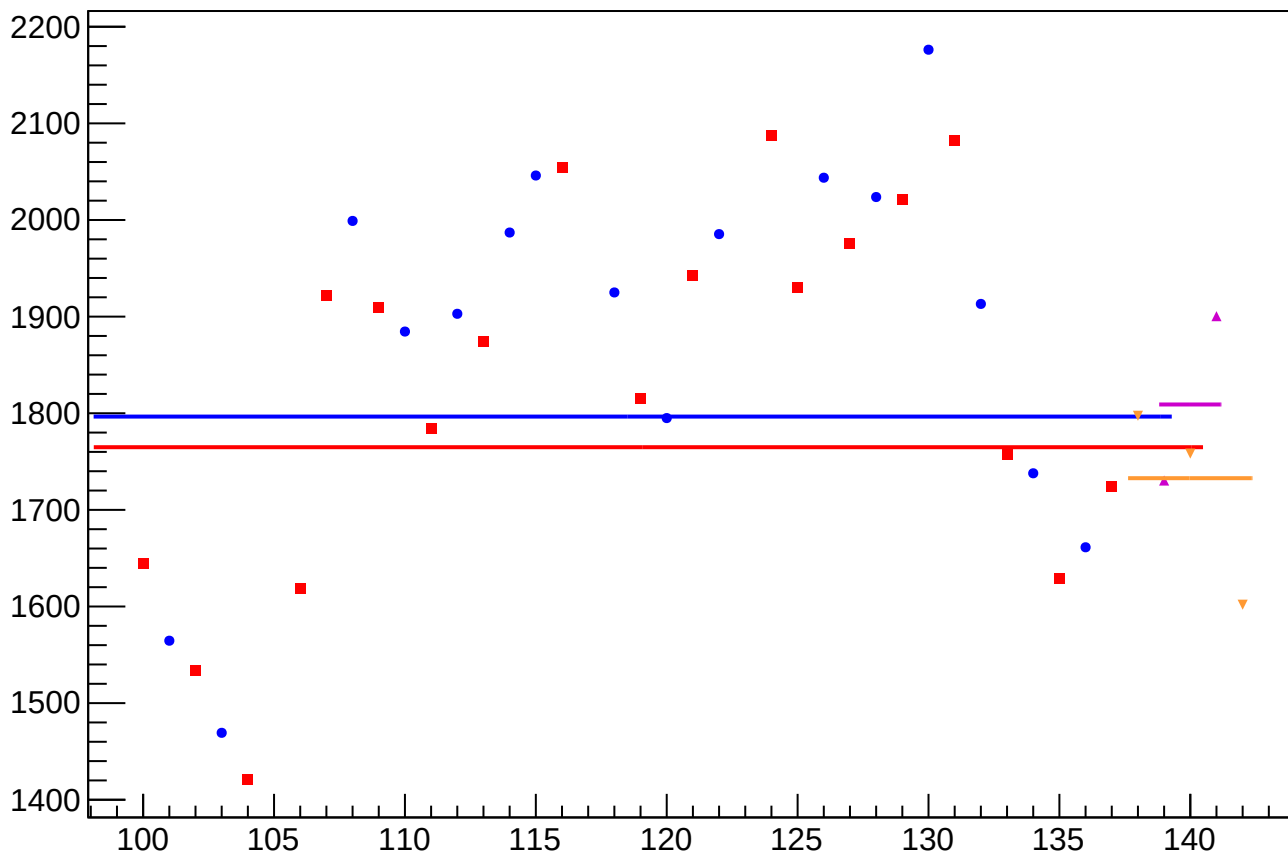
Right: 45.136 ± 0.467 $\chi^2/\text{NDF}: 5166.5/34$

In: 30.821 ± 0.605 $\chi^2/\text{NDF}: 12564.2/17$

Out: 18.689 ± 0.571 $\chi^2/\text{NDF}: 2962.2/21$

All: 24.413 ± 0.415 $\chi^2/\text{NDF}: 15739.1/39$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1796.555 $\pm$ 0.475 χ^2 /NDF: 193171.9/15

Left Out: 1732.798 $\pm$ 0.855 χ^2 /NDF:8248.3/2

Right Out: 1764.860 $\pm$ 0.459 χ^2 /NDF: 189987.9/18

Left In: 1809.076 $\pm$ 0.976 χ^2 /NDF:7543.9/1

Left: 1765.898 $\pm$ 0.643 χ^2 /NDF: 19246.6/4

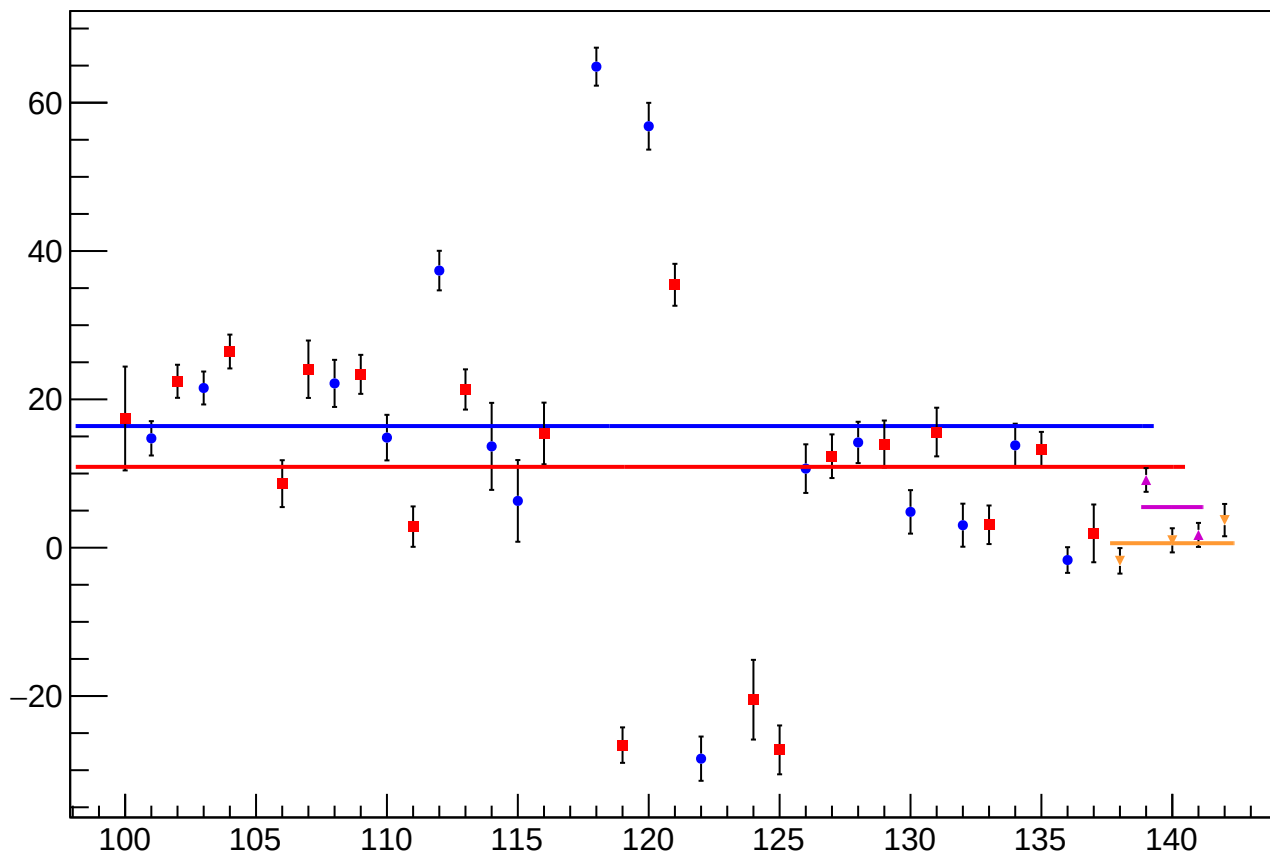
Right: 1780.131 $\pm$ 0.330 χ^2 /NDF: 385462.0/34

In: 1798.955 $\pm$ 0.427 χ^2 /NDF:200848.6/17

Out: 1757.698 $\pm$ 0.404 χ^2 /NDF:199328.5/21

All: 1777.165 $\pm$ 0.294 χ^2 /NDF: 405096.3/39

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 16.400 $\pm$ 0.695 χ^2 /NDF: 973.0/15

Left Out: 0.604 $\pm$ 1.039 χ^2 /NDF: 4.0/2

Right Out: 10.899 $\pm$ 0.676 χ^2 /NDF: 641.7/18

Left In: 5.476 $\pm$ 1.137 χ^2 /NDF: 10.6/1

Left: 2.821 $\pm$ 0.767 χ^2 /NDF: 24.6/4

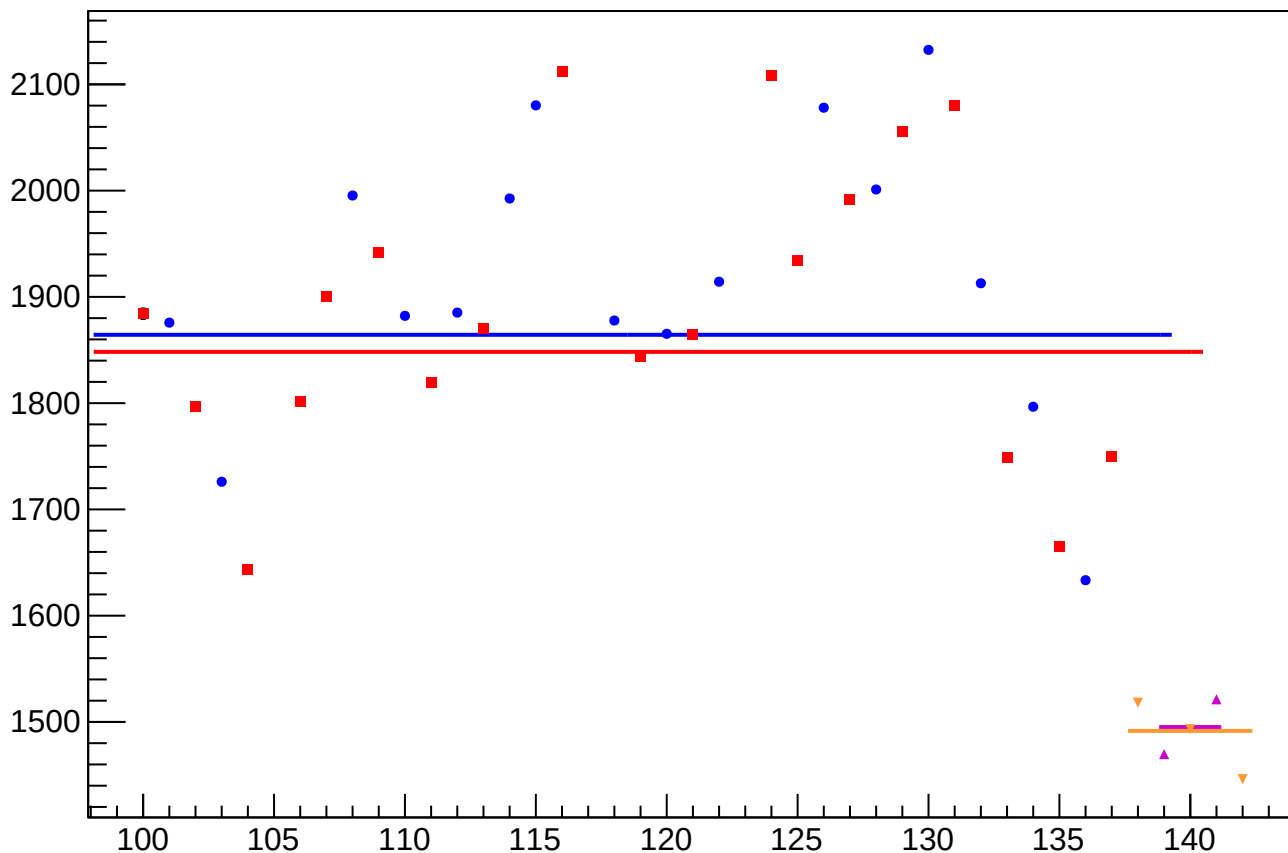
Right: 13.575 $\pm$ 0.485 χ^2 /NDF: 1646.8/34

In: 13.430 $\pm$ 0.593 χ^2 /NDF: 1050.7/17

Out: 7.836 $\pm$ 0.567 χ^2 /NDF: 714.7/21

All: 10.507 $\pm$ 0.410 χ^2 /NDF: 1811.9/39

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1864.335 $\pm$ 0.491 χ^2 /NDF: 83311.5/15

Left Out: 1491.572 $\pm$ 0.735 χ^2 /NDF:1346.5/2

Right Out: 1848.284 $\pm$ 0.478 χ^2 /NDF: 74956.9/18

Left In: 1495.194 $\pm$ 0.804 χ^2 /NDF:1028.0/1

Left: 1493.220 $\pm$ 0.542 χ^2 /NDF: 2385.6/4

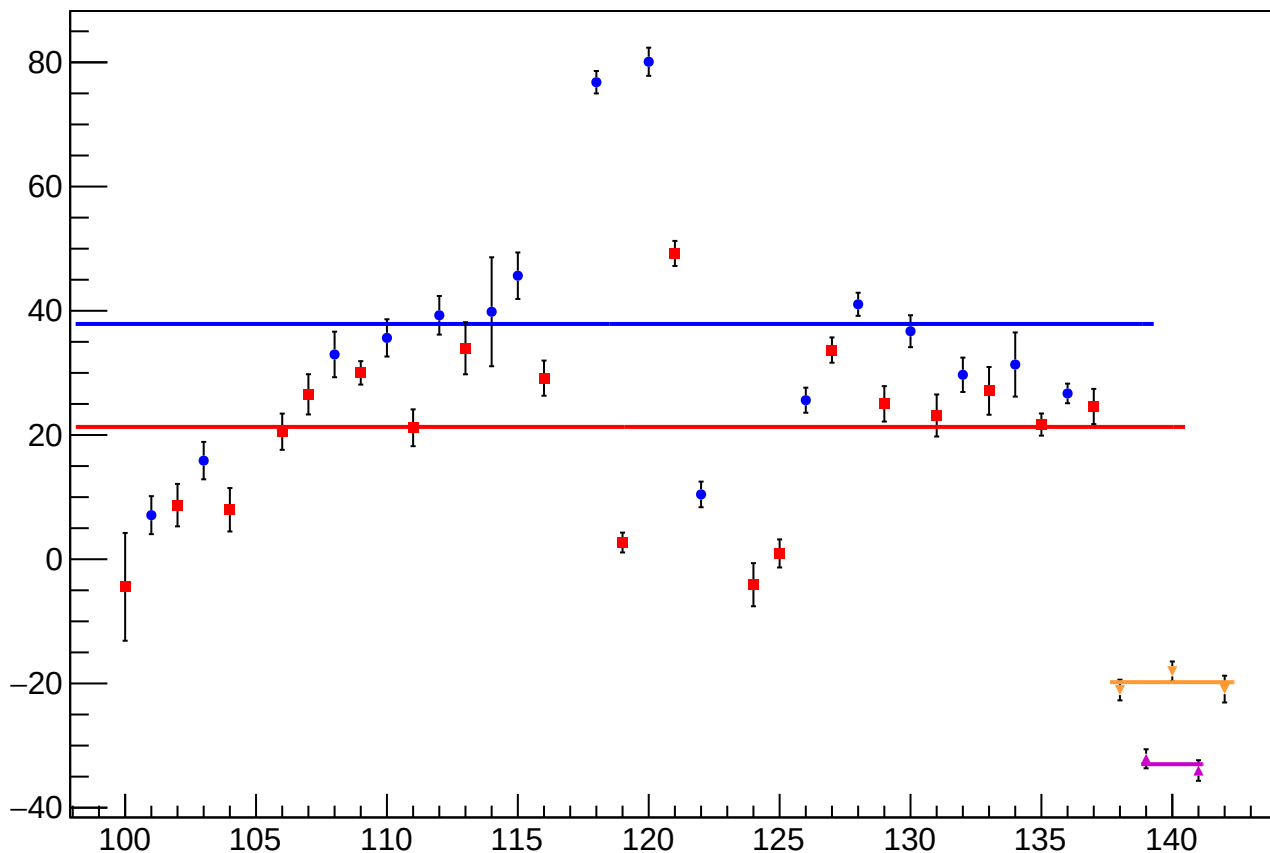
Right: 1856.091 $\pm$ 0.343 χ^2 /NDF: 158816.4/34

In: 1763.973 $\pm$ 0.419 χ^2 /NDF:237750.5/17

Out: 1742.151 $\pm$ 0.401 χ^2 /NDF:241871.4/21

All: 1752.569 $\pm$ 0.290 χ^2 /NDF: 481037.3/39

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.880 $\pm$ 0.622 χ^2 /NDF: 1249.8/15

Left Out: -19.789 $\pm$ 1.013 χ^2 /NDF: 2.1/2

Right Out: 21.306 $\pm$ 0.593 χ^2 /NDF: 582.6/18

Left In: -32.999 $\pm$ 1.125 χ^2 /NDF: 0.7/1

Left: -25.704 $\pm$ 0.753 χ^2 /NDF: 78.9/4

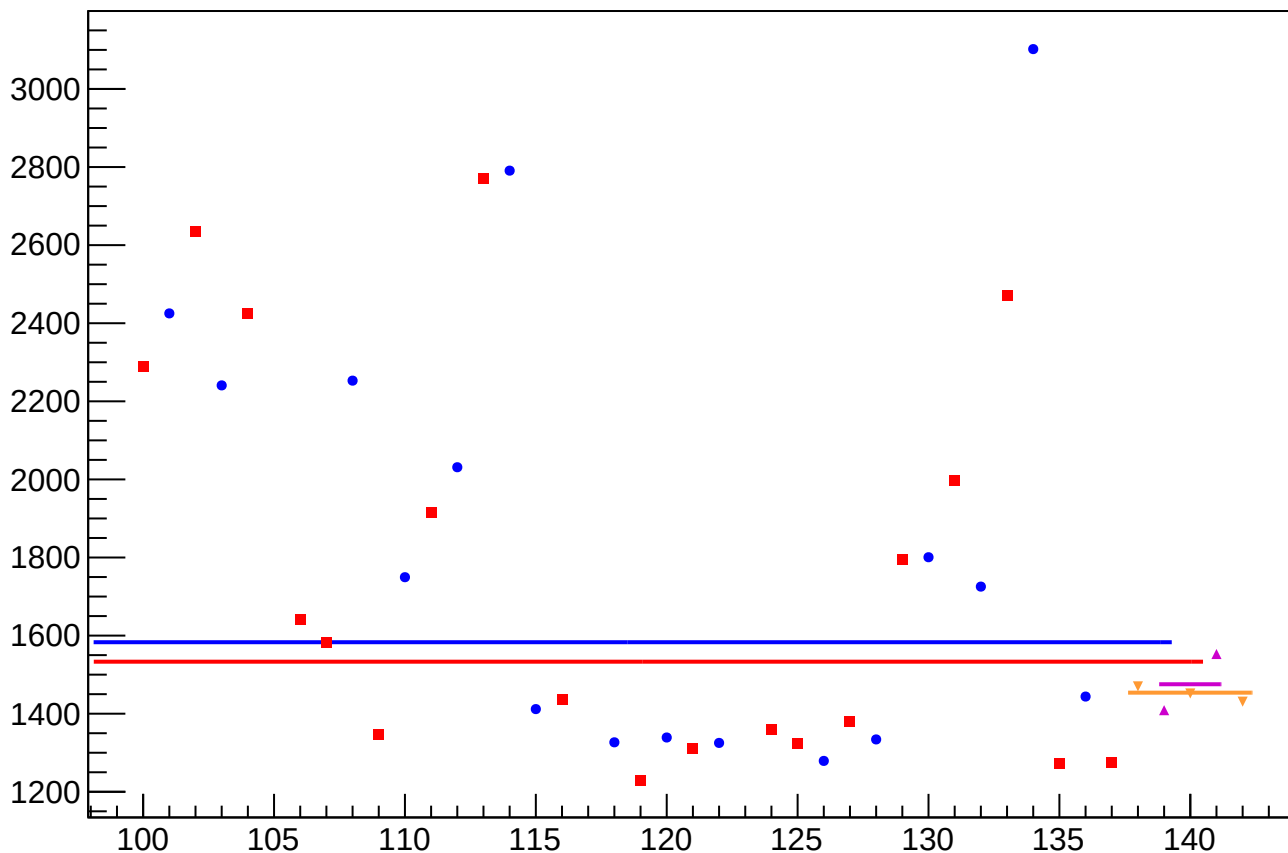
Right: 29.192 $\pm$ 0.429 χ^2 /NDF: 2204.2/34

In: 21.272 $\pm$ 0.545 χ^2 /NDF: 4289.6/17

Out: 10.821 $\pm$ 0.512 χ^2 /NDF: 1810.3/21

All: 15.722 $\pm$ 0.373 χ^2 /NDF: 6295.5/39

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1583.050 $\pm$ 0.440 χ^2 /NDF: 787672.4/15

Left Out: 1453.874 $\pm$ 0.716 χ^2 /NDF: 418.1/2

Right Out: 1533.190 $\pm$ 0.419 χ^2 /NDF: 950777.4/18

Left In: 1475.427 $\pm$ 0.796 χ^2 /NDF: 8129.2/1

Left: 1463.526 $\pm$ 0.532 χ^2 /NDF: 8952.6/4

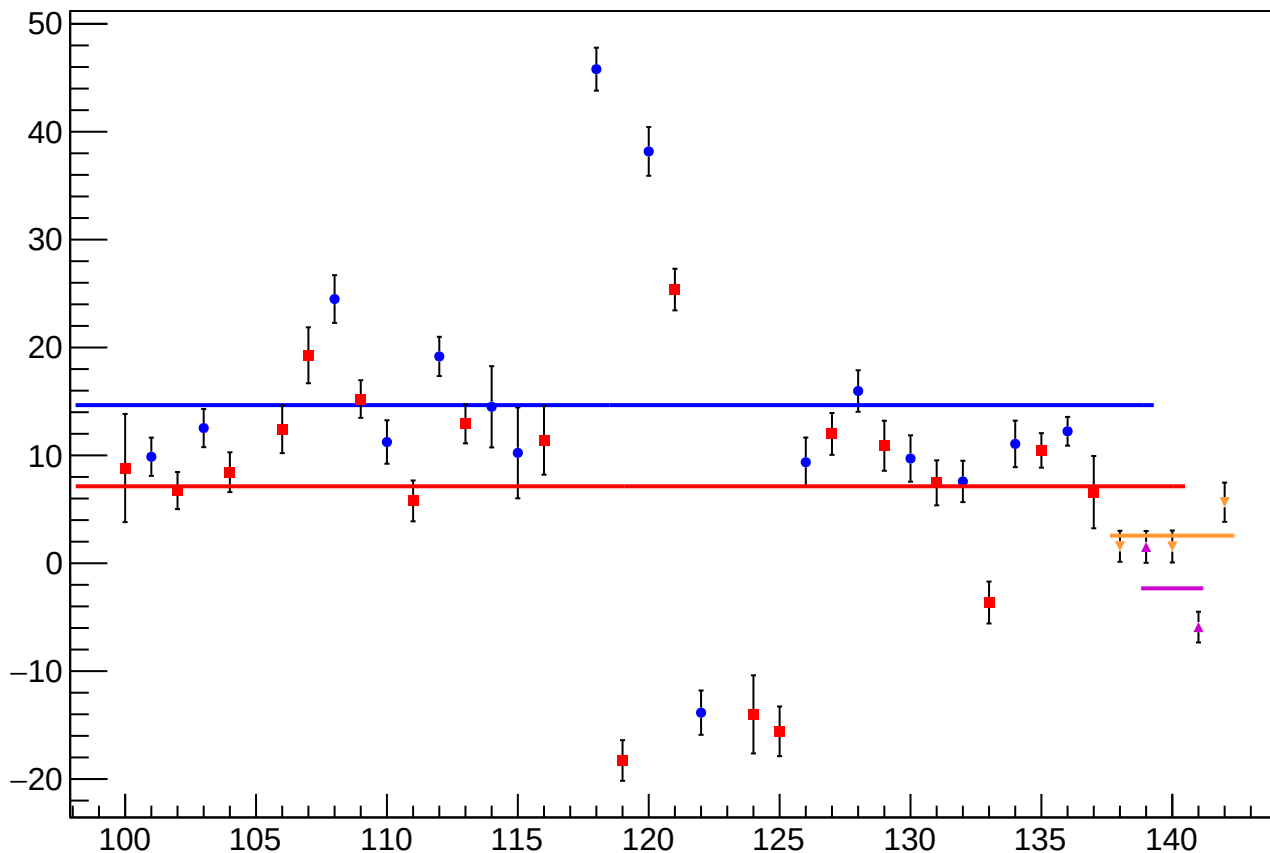
Right: 1556.913 $\pm$ 0.304 χ^2 /NDF: 1745178.6/34

In: 1557.832 $\pm$ 0.385 χ^2 /NDF: 809815.1/17

Out: 1512.954 $\pm$ 0.362 χ^2 /NDF: 960326.2/21

All: 1533.998 $\pm$ 0.264 χ^2 /NDF: 1777354.4/39

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.658 $\pm$ 0.504 χ^2 /NDF: 614.8/15

Left Out: 2.561 $\pm$ 0.898 χ^2 /NDF: 3.8/2

Right Out: 7.135 $\pm$ 0.483 χ^2 /NDF: 509.4/18

Left In: -2.326 $\pm$ 1.026 χ^2 /NDF: 13.1/1

Left: 0.442 $\pm$ 0.676 χ^2 /NDF: 29.8/4

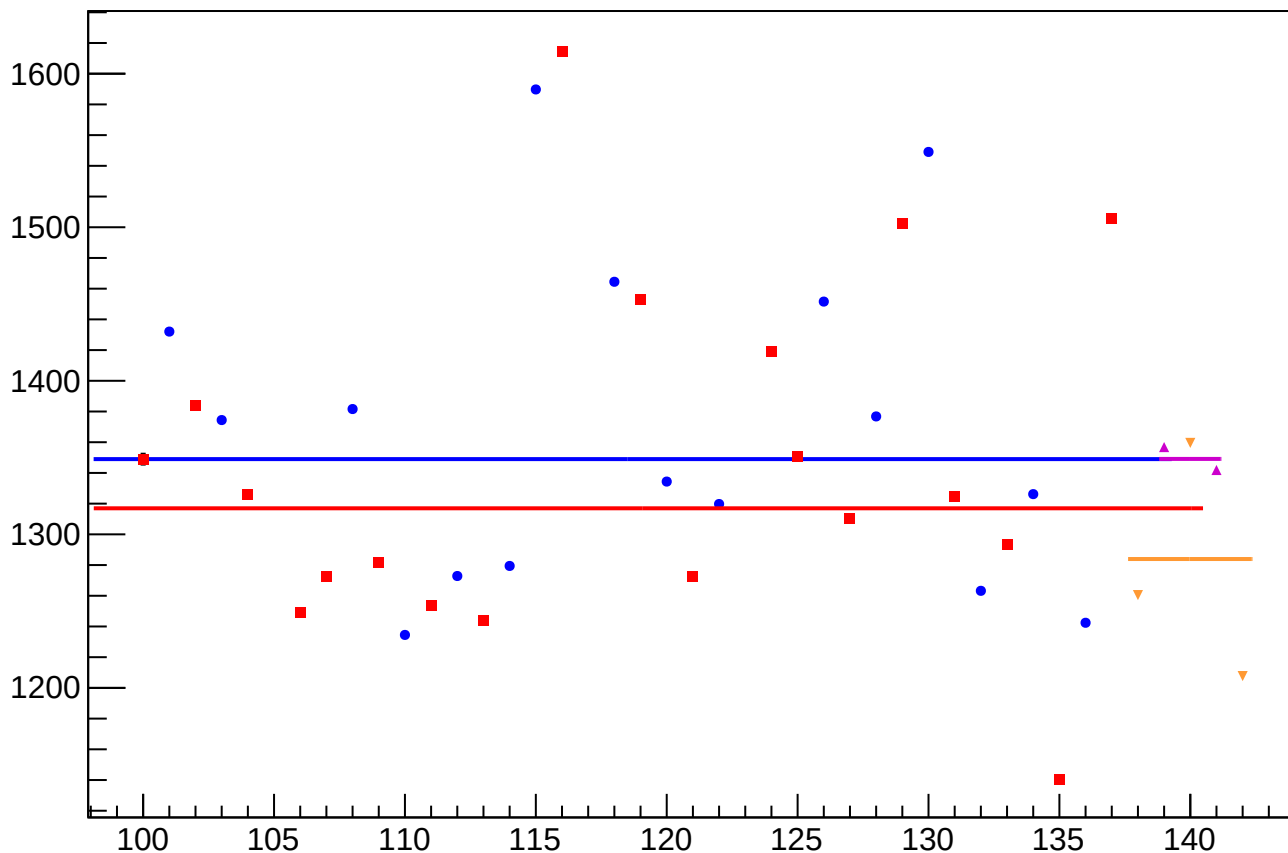
Right: 10.734 $\pm$ 0.349 χ^2 /NDF: 1240.2/34

In: 11.352 $\pm$ 0.453 χ^2 /NDF: 848.4/17

Out: 6.108 $\pm$ 0.426 χ^2 /NDF: 533.4/21

All: 8.568 $\pm$ 0.310 χ^2 /NDF: 1453.1/39

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.000 $\pm$ 0.357 χ^2 /NDF: 68383.7/15

Left Out: 1283.931 $\pm$ 0.635 χ^2 /NDF: 9244.8/2

Right Out: 1316.961 $\pm$ 0.342 χ^2 /NDF: 86873.7/18

Left In: 1349.121 $\pm$ 0.726 χ^2 /NDF: 105.7/1

Left: 1312.204 $\pm$ 0.478 χ^2 /NDF: 13920.7/4

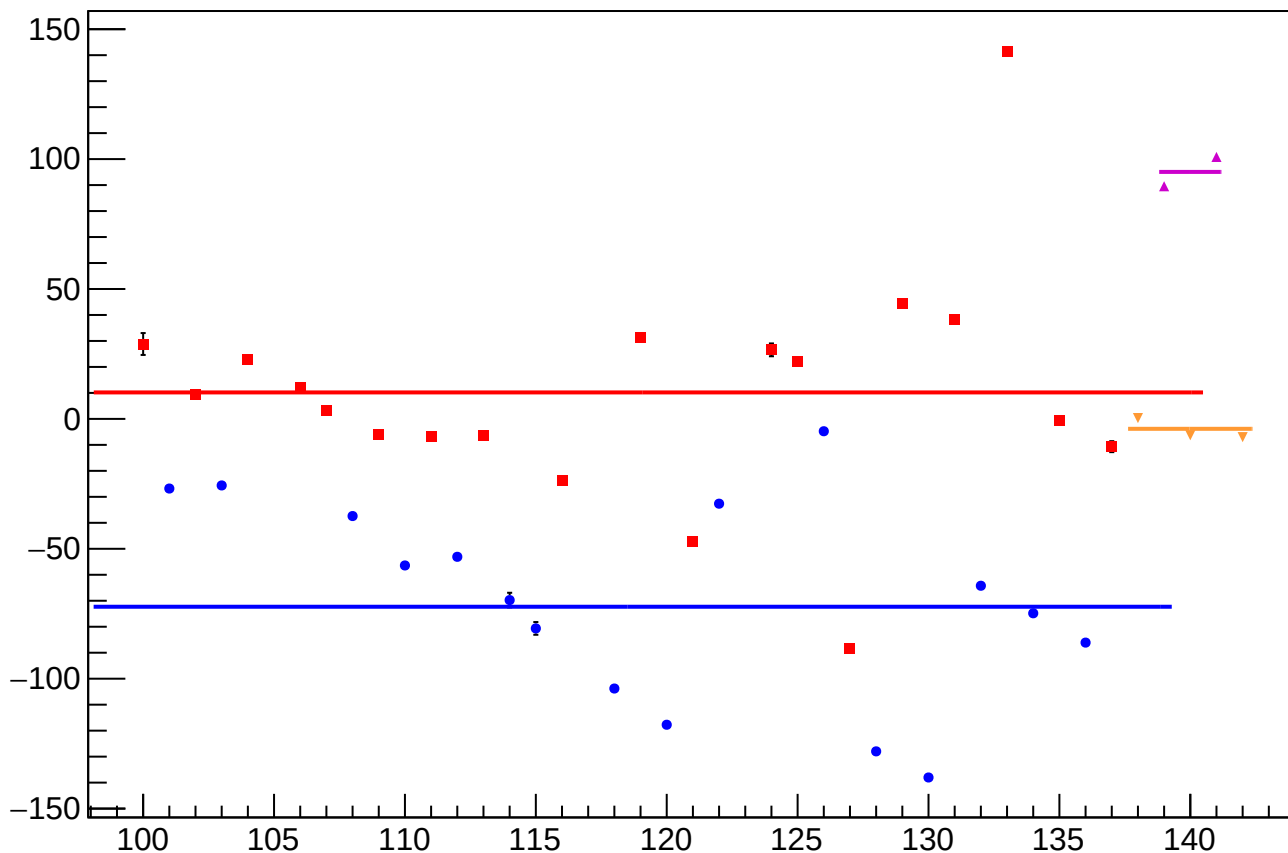
Right: 1332.289 $\pm$ 0.247 χ^2 /NDF: 159464.7/34

In: 1349.024 $\pm$ 0.320 χ^2 /NDF: 68489.4/17

Out: 1309.546 $\pm$ 0.301 χ^2 /NDF: 98216.4/21

All: 1328.062 $\pm$ 0.219 χ^2 /NDF: 174780.1/39

diff_bpm1i02X_mean vs Slug, Sign Corrected



Left: 41.577 +/- 0.470 χ^2/NDF : 11085.2/4

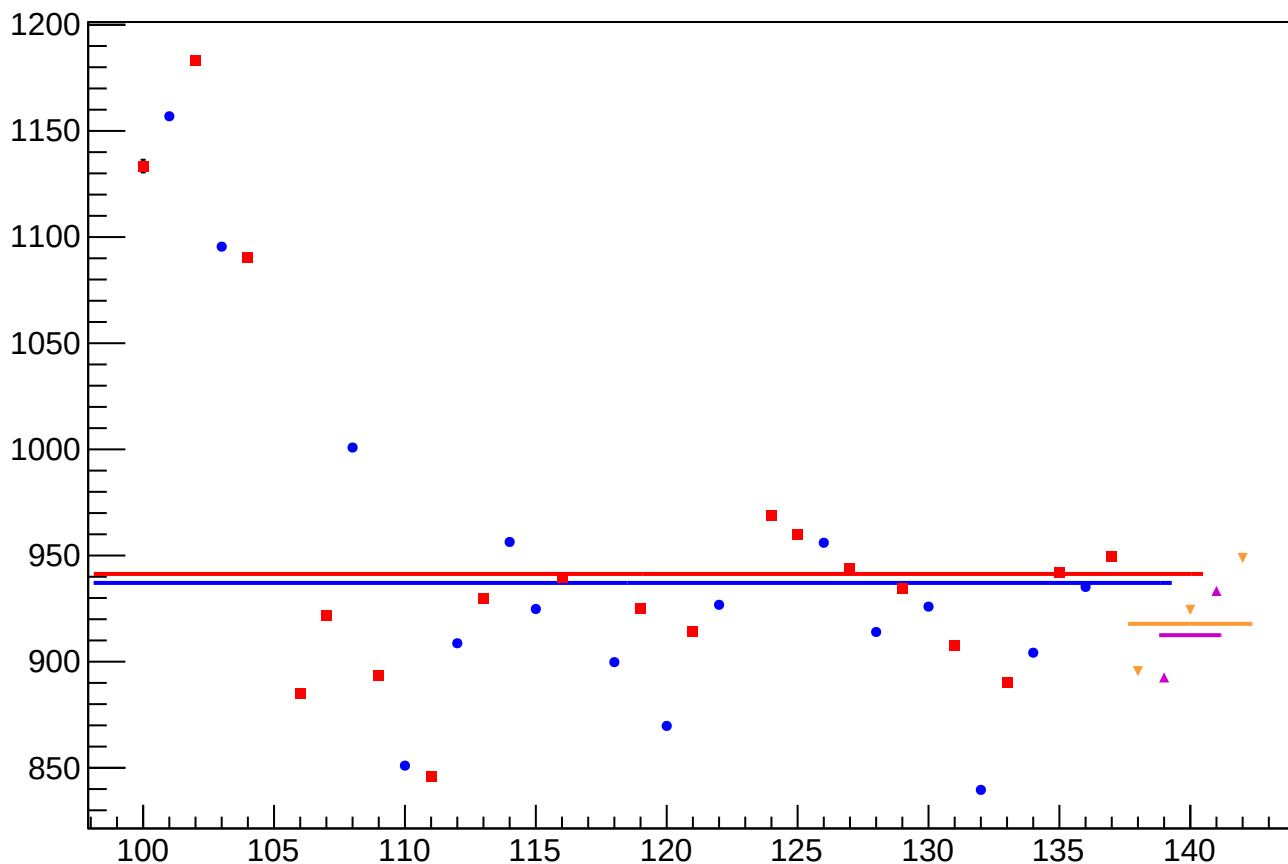
Right: -30.473 +/- 0.245 χ^2/NDF : 59456.9/34

In: -38.427 +/- 0.312 χ^2/NDF : 58649.7/17

Out: 7.034 +/- 0.303 χ^2/NDF : 19445.8/21

All: -15.045 +/- 0.217 χ^2/NDF : 89009.1/39

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.097 $\pm$ 0.247 χ^2 /NDF: 104660.4/15

Left Out: 917.823 $\pm$ 0.452 χ^2 /NDF:1996.3/2

Right Out: 941.323 $\pm$ 0.244 χ^2 /NDF: 101031.2/18

Left In: 912.489 $\pm$ 0.491 χ^2 /NDF:1723.4/1

Left: 915.374 $\pm$ 0.332 χ^2 /NDF: 3783.7/4

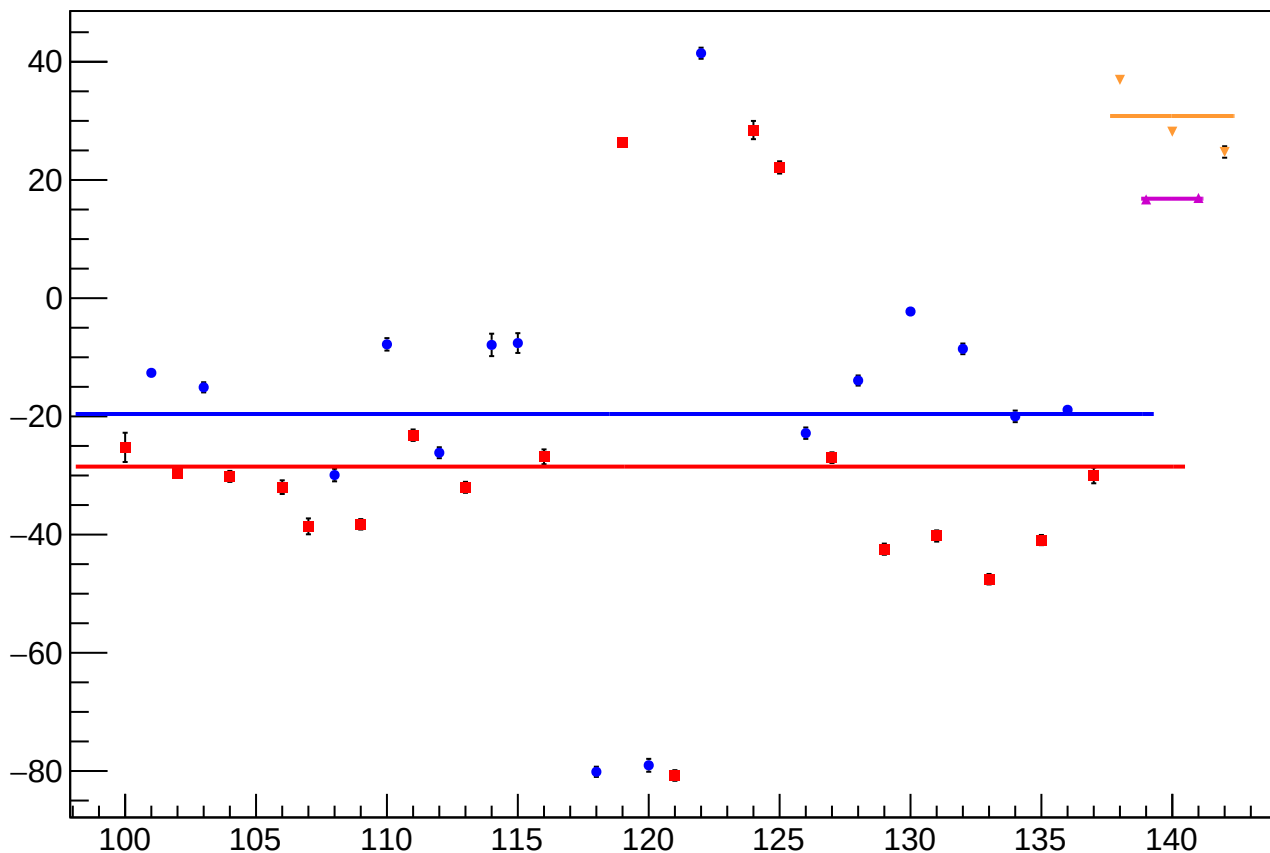
Right: 939.240 $\pm$ 0.173 χ^2 /NDF: 205839.9/34

In: 932.116 $\pm$ 0.221 χ^2 /NDF:108391.3/17

Out: 936.031 $\pm$ 0.214 χ^2 /NDF:105123.0/21

All: 934.130 $\pm$ 0.154 χ^2 /NDF: 213676.1/39

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -19.597±0.234 χ^2/NDF : 13170.1/15

Left Out: 30.825±0.445 χ^2/NDF :126.5/2

Right Out: -28.496±0.230 χ^2/NDF : 12971.2/18

Left In: 16.832±0.494 χ^2/NDF :0.1/1

Left: 24.555±0.331 χ^2/NDF : 569.0/4

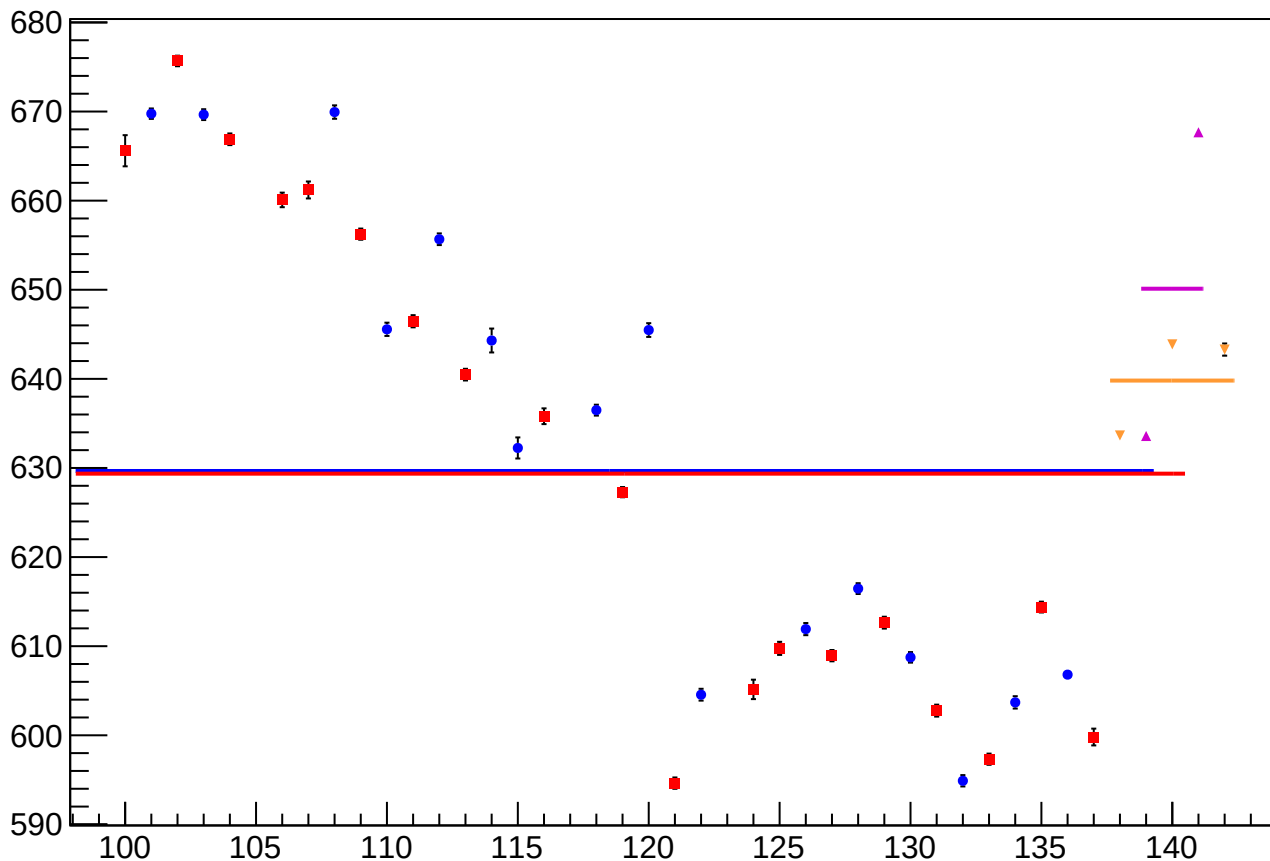
Right: -24.130±0.164 χ^2/NDF : 26877.8/34

In: -12.923±0.212 χ^2/NDF :17607.8/17

Out: -16.031±0.204 χ^2/NDF :27115.1/21

All: -14.533±0.147 χ^2/NDF : 44834.6/39

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.660 $\pm$ 0.166 χ^2 /NDF: 25315.5/15

Left Out: 639.809 $\pm$ 0.315 χ^2 /NDF:240.3/2

Right Out: 629.361 $\pm$ 0.162 χ^2 /NDF: 26791.2/18

Left In: 650.116 $\pm$ 0.349 χ^2 /NDF:2375.4/1

Left: 644.427 $\pm$ 0.234 χ^2 /NDF: 3095.9/4

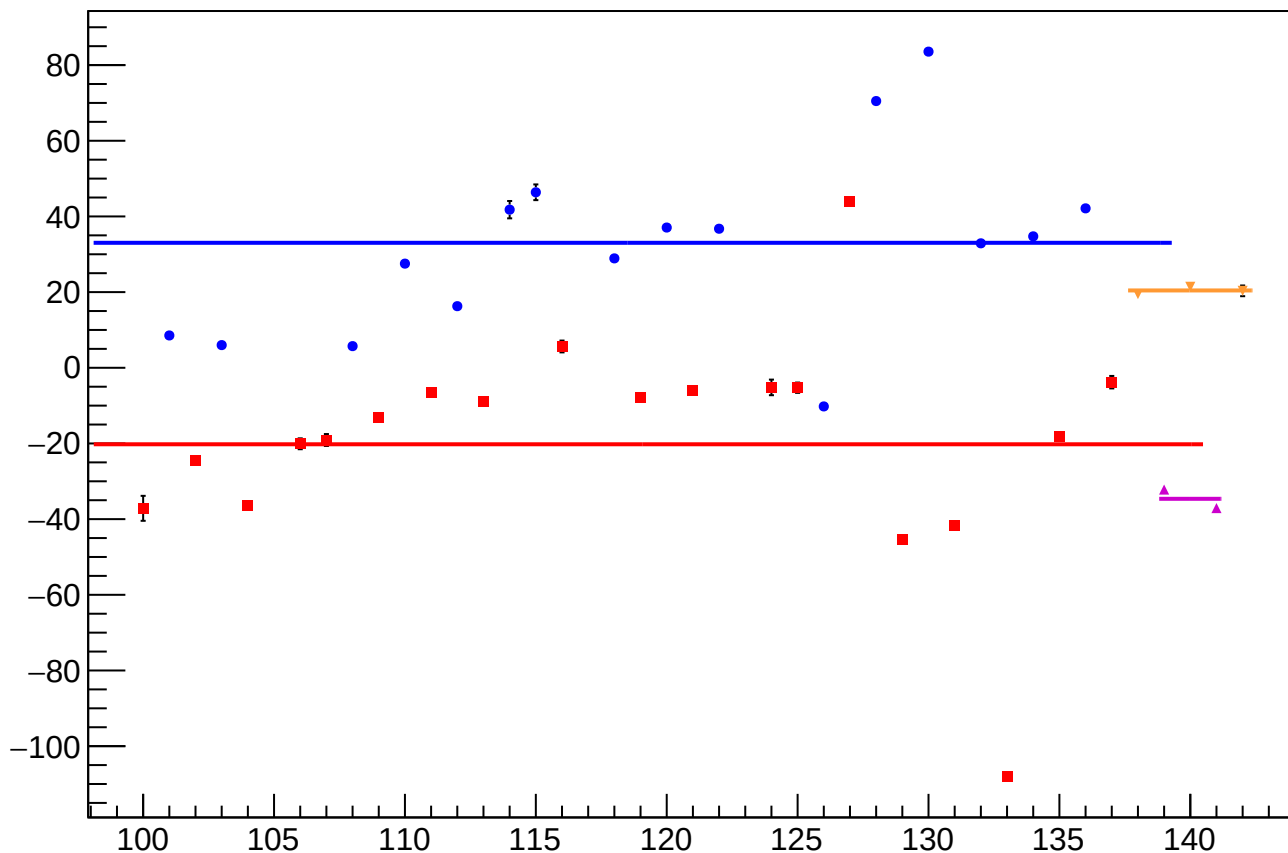
Right: 629.508 $\pm$ 0.116 χ^2 /NDF: 52108.4/34

In: 633.407 $\pm$ 0.150 χ^2 /NDF:30489.4/17

Out: 631.556 $\pm$ 0.144 χ^2 /NDF:27901.2/21

All: 632.449 $\pm$ 0.104 χ^2 /NDF: 58469.9/39

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.033+/-0.289 χ^2/NDF : 6700.1/15

Left Out: 20.440+/-0.670 χ^2/NDF : 1.6/2

Right Out: -20.215+/-0.286 χ^2/NDF : 11869.7/18

Left In: -34.629+/-0.737 χ^2/NDF : 11.0/1

Left: -4.450+/-0.496 χ^2/NDF : 3068.3/4

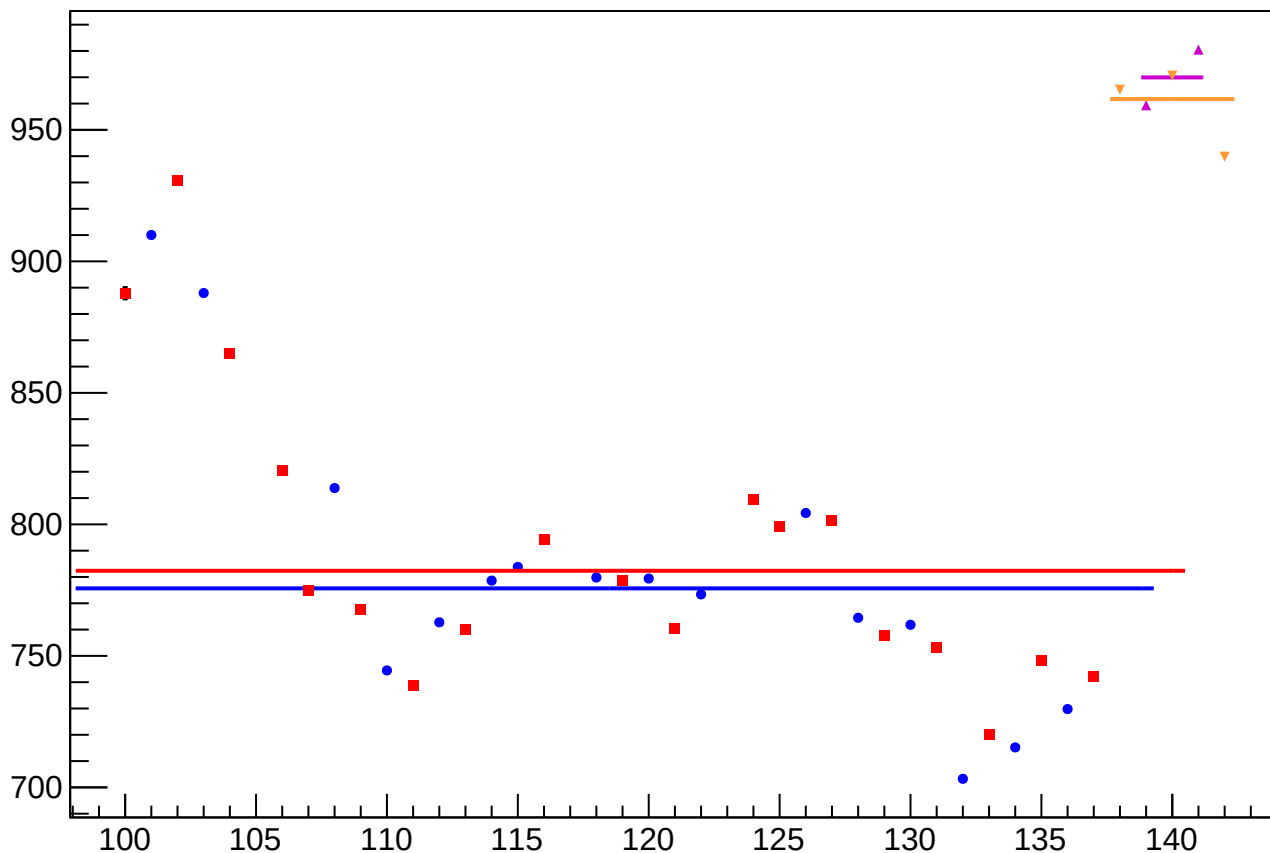
Right: 6.136+/-0.203 χ^2/NDF : 35729.1/34

In: 24.031+/-0.269 χ^2/NDF : 14008.6/17

Out: -13.947+/-0.263 χ^2/NDF : 14987.9/21

All: 4.613+/-0.188 χ^2/NDF : 39187.6/39

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 775.664 $\pm$ 0.204 χ^2 /NDF: 74660.0/15

Left Out: 961.719 $\pm$ 0.474 χ^2 /NDF: 642.8/2

Right Out: 782.358 $\pm$ 0.202 χ^2 /NDF: 64566.3/18

Left In: 969.942 $\pm$ 0.521 χ^2 /NDF: 411.2/1

Left: 965.435 $\pm$ 0.351 χ^2 /NDF: 1190.2/4

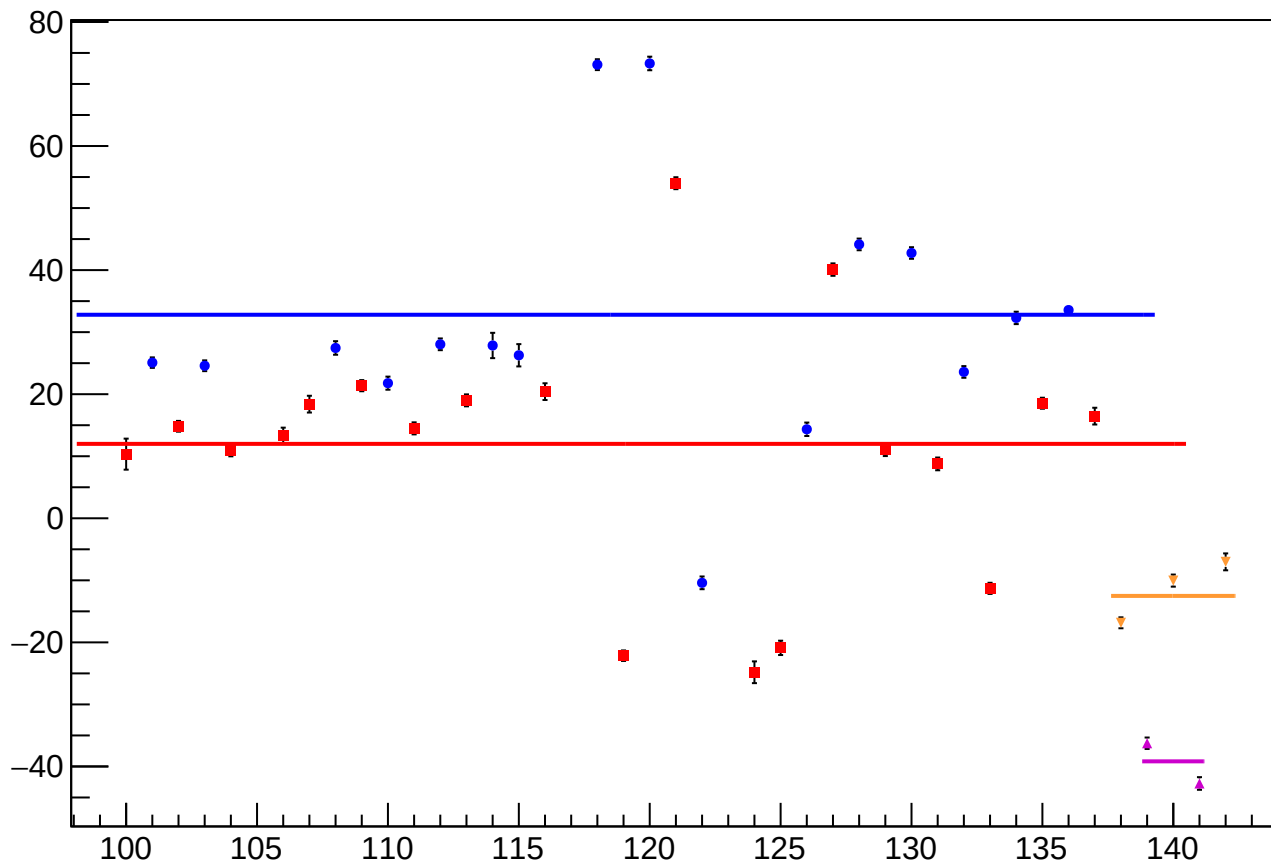
Right: 779.045 $\pm$ 0.144 χ^2 /NDF: 139768.7/34

In: 801.512 $\pm$ 0.190 χ^2 /NDF: 195396.5/17

Out: 810.013 $\pm$ 0.186 χ^2 /NDF: 186527.0/21

All: 805.858 $\pm$ 0.133 χ^2 /NDF: 382944.9/39

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.804 $\pm$ 0.244 χ^2/NDF : 6259.3/15

Left Out: -12.511 $\pm$ 0.590 χ^2/NDF : 46.7/2

Right Out: 11.994 $\pm$ 0.241 χ^2/NDF : 6559.7/18

Left In: -39.176 $\pm$ 0.683 χ^2/NDF : 22.3/1

Left: -23.900 $\pm$ 0.447 χ^2/NDF : 941.2/4

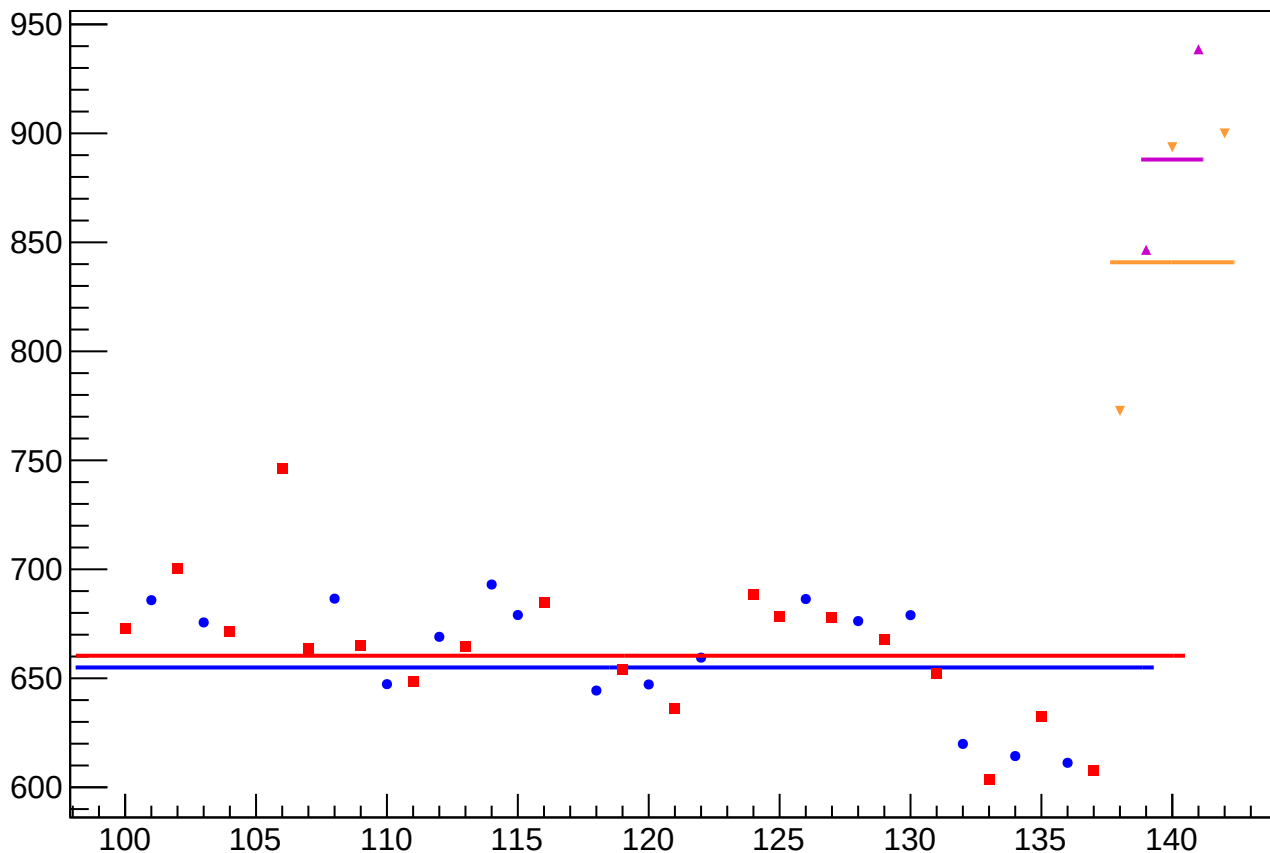
Right: 22.296 $\pm$ 0.171 χ^2/NDF : 16506.5/34

In: 24.693 $\pm$ 0.229 χ^2/NDF : 16126.2/17

Out: 8.487 $\pm$ 0.223 χ^2/NDF : 8084.3/21

All: 16.369 $\pm$ 0.160 χ^2/NDF : 26774.2/39

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 654.970 $\pm$ 0.172 χ^2 /NDF: 26744.4/15

Left Out: 840.850 $\pm$ 0.417 χ^2 /NDF:21538.0/2

Right Out: 660.355 $\pm$ 0.171 χ^2 /NDF: 30417.5/18

Left In: 887.987 $\pm$ 0.483 χ^2 /NDF:8975.2/1

Left: 860.983 $\pm$ 0.316 χ^2 /NDF: 35964.7/4

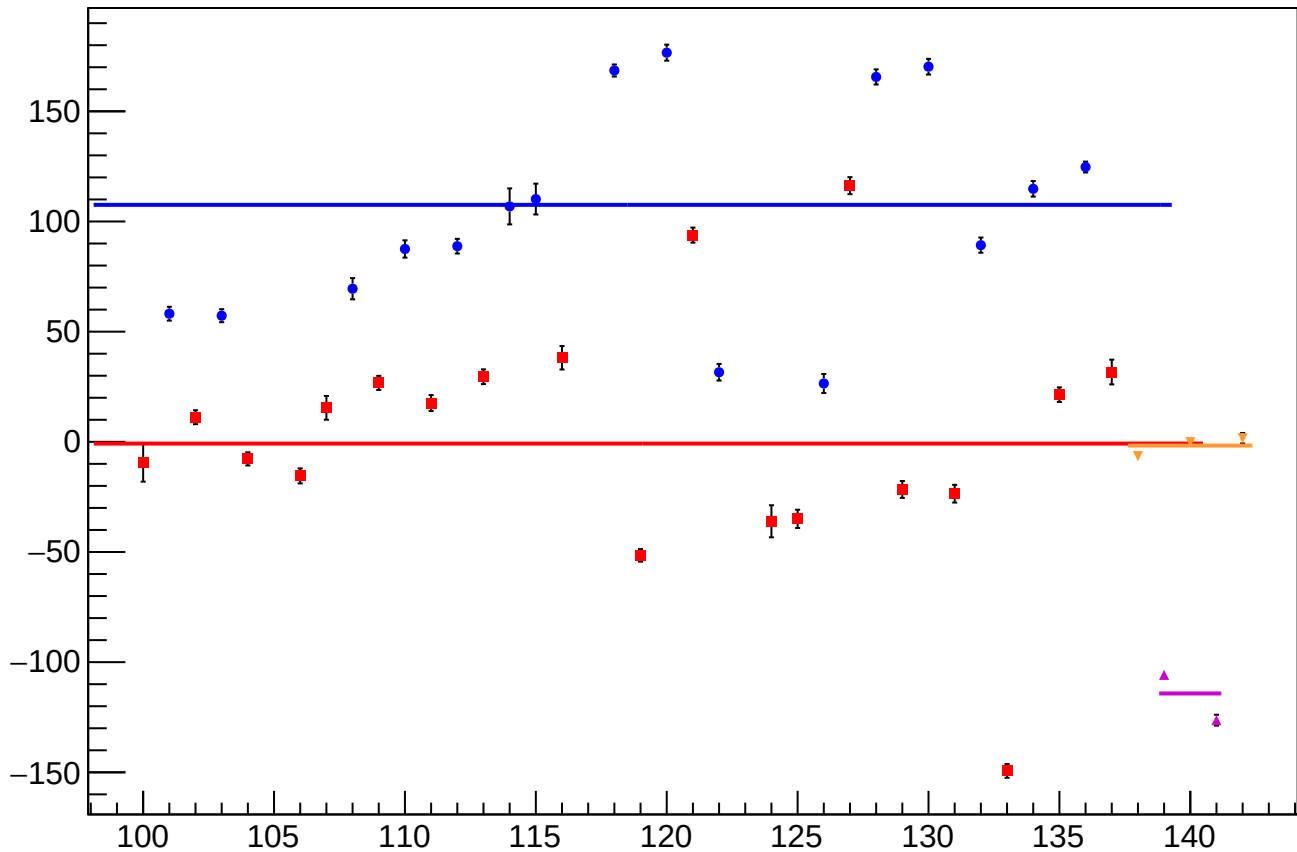
Right: 657.689 $\pm$ 0.121 χ^2 /NDF: 57655.9/34

In: 681.226 $\pm$ 0.162 χ^2 /NDF:242062.1/17

Out: 686.183 $\pm$ 0.158 χ^2 /NDF:212314.4/21

All: 683.772 $\pm$ 0.113 χ^2 /NDF: 454856.2/39

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.548 $\pm$ 0.885 χ^2 /NDF: 2955.8/15

Left Out: -1.703 $\pm$ 1.304 χ^2 /NDF: 7.0/2

Right Out: -0.788 $\pm$ 0.861 χ^2 /NDF: 4763.9/18

Left In: -114.207 $\pm$ 1.580 χ^2 /NDF: 41.0/1

Left: -47.276 $\pm$ 1.006 χ^2 /NDF: 3062.6/4

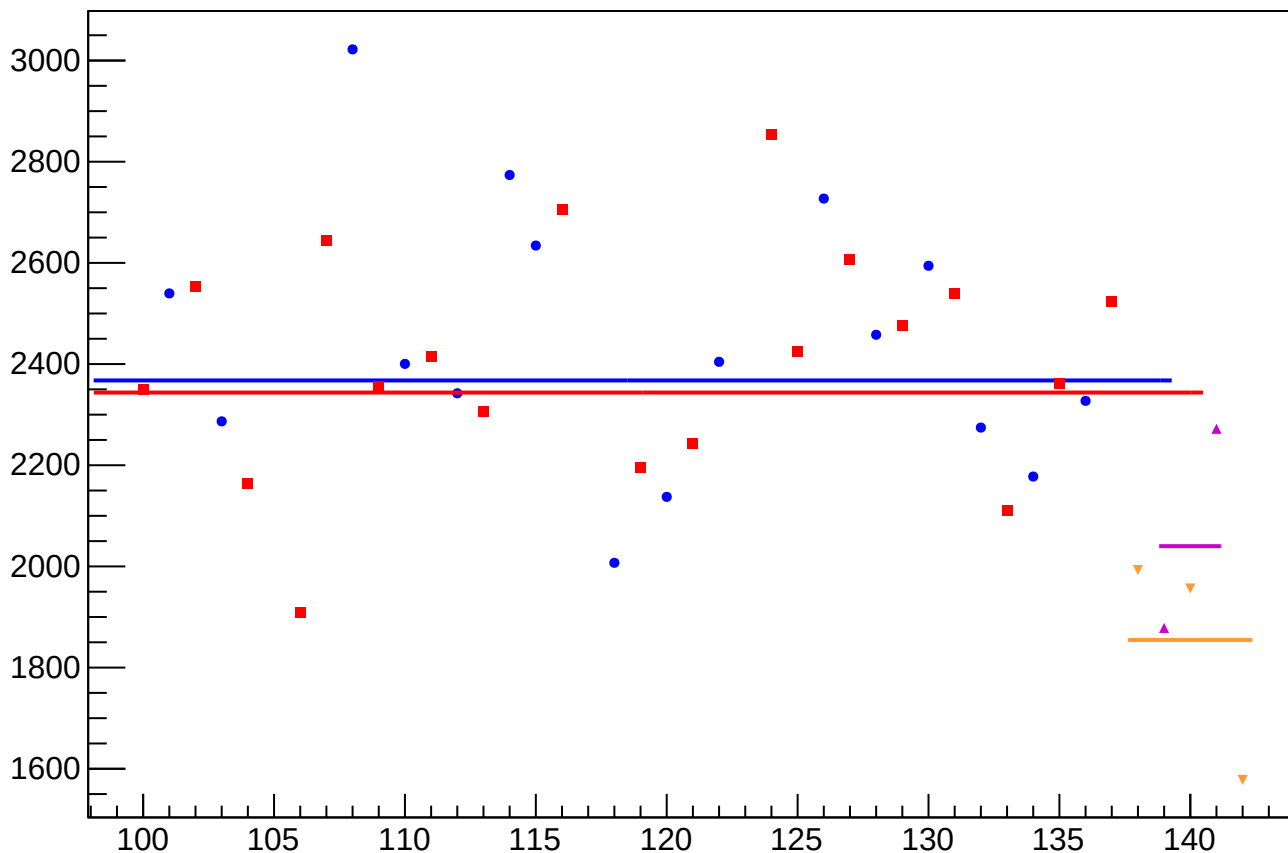
Right: 51.859 $\pm$ 0.617 χ^2 /NDF: 15416.7/34

In: 54.580 $\pm$ 0.772 χ^2 /NDF: 17982.2/17

Out: -1.066 $\pm$ 0.718 χ^2 /NDF: 4771.2/21

All: 24.745 $\pm$ 0.526 χ^2 /NDF: 25536.2/39

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2367.633 $\pm$ 0.626 χ^2/NDF : 126764.1/15

Left Out: 1854.528 $\pm$ 0.922 χ^2/NDF : 39009.1/2

Right Out: 2343.704 $\pm$ 0.609 χ^2/NDF : 112274.4/18

Left In: 2040.008 $\pm$ 1.118 χ^2/NDF : 30017.8/1

Left: 1929.663 $\pm$ 0.711 χ^2/NDF : 85415.4/4

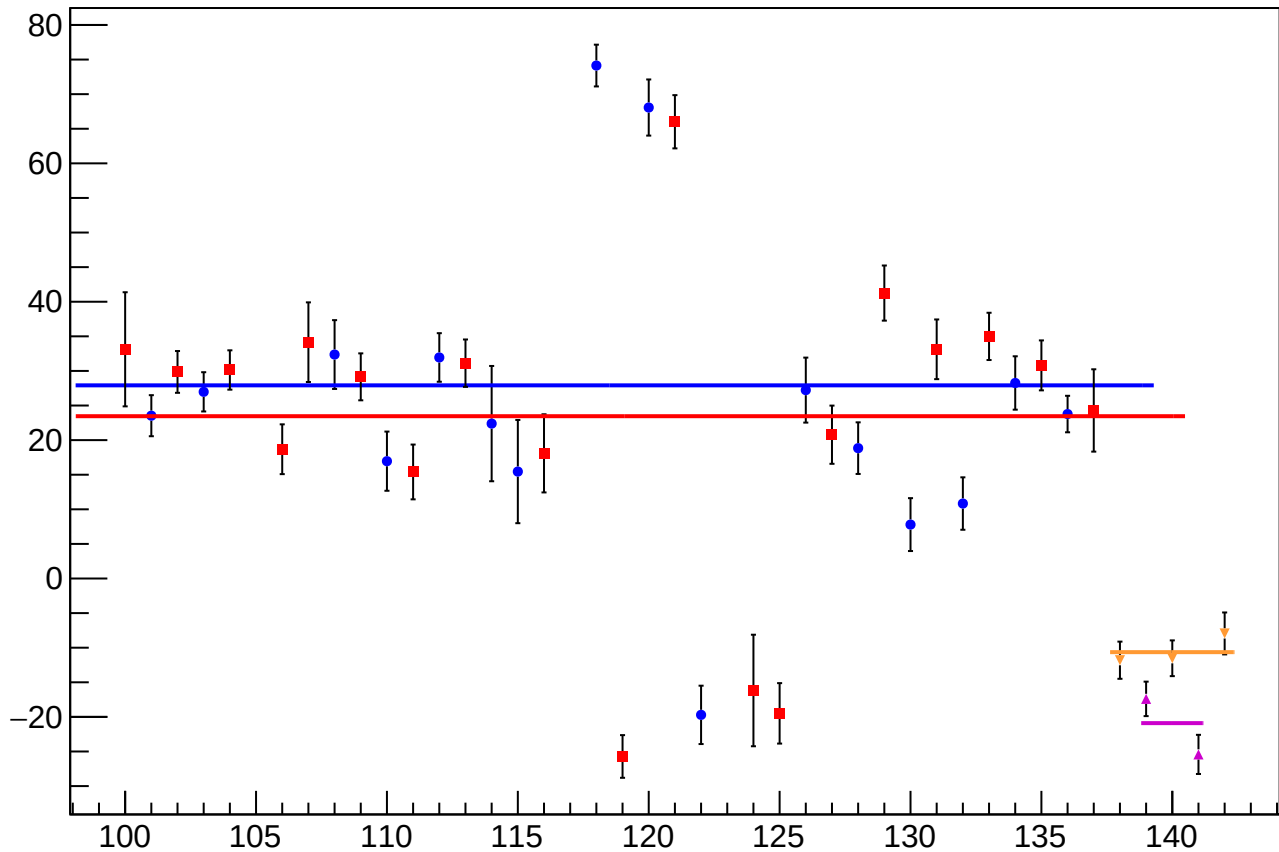
Right: 2355.333 $\pm$ 0.436 χ^2/NDF : 239789.5/34

In: 2289.377 $\pm$ 0.546 χ^2/NDF : 222201.7/17

Out: 2195.248 $\pm$ 0.508 χ^2/NDF : 347288.2/21

All: 2238.909 $\pm$ 0.372 χ^2/NDF : 585415.1/39

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.916 ± 0.937 $\chi^2/\text{NDF}: 530.7/15$

Left Out: -10.643 ± 1.587 $\chi^2/\text{NDF}: 1.1/2$

Right Out: 23.457 ± 0.903 $\chi^2/\text{NDF}: 567.9/18$

Left In: -20.900 ± 1.869 $\chi^2/\text{NDF}: 4.5/1$

Left: -14.937 ± 1.210 $\chi^2/\text{NDF}: 23.1/4$

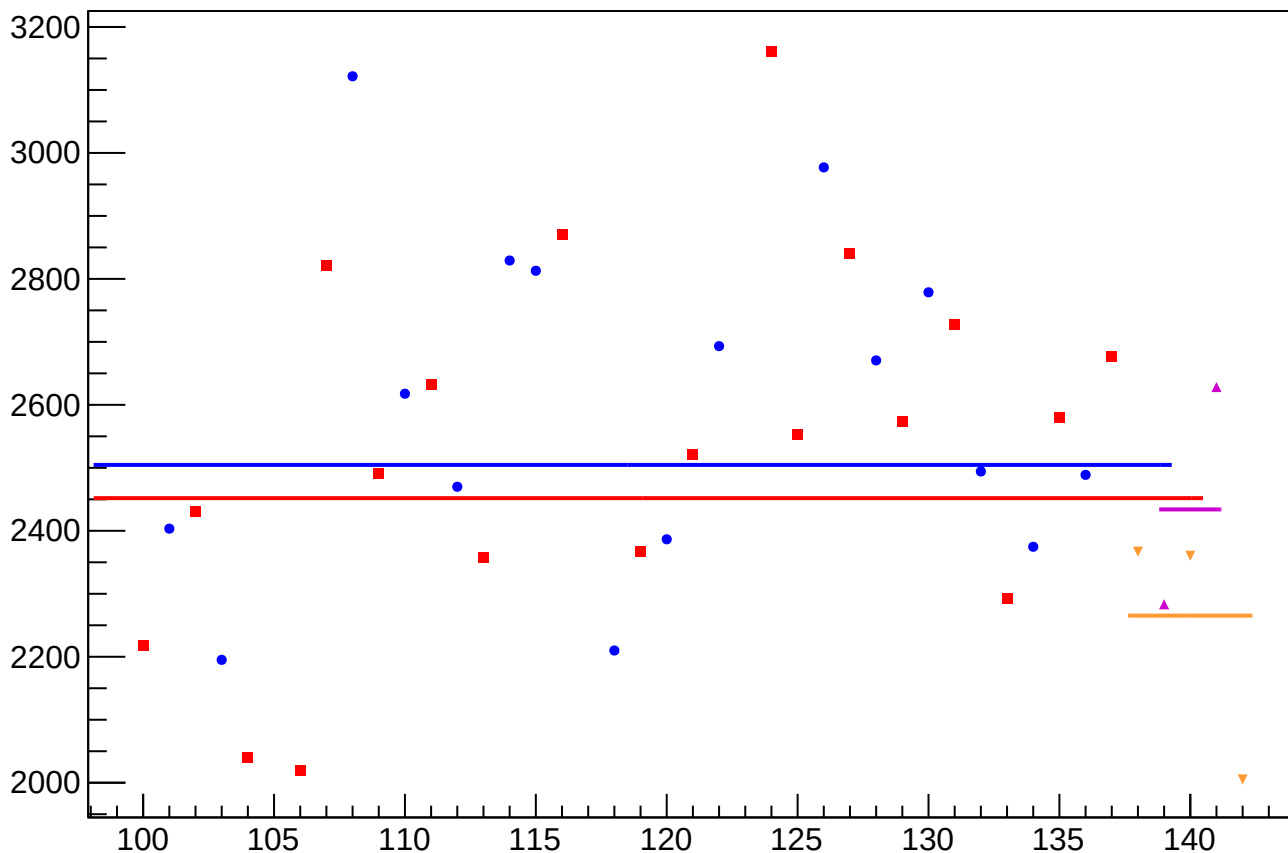
Right: 25.604 ± 0.650 $\chi^2/\text{NDF}: 1110.3/34$

In: 18.119 ± 0.837 $\chi^2/\text{NDF}: 1080.2/17$

Out: 15.119 ± 0.785 $\chi^2/\text{NDF}: 918.0/21$

All: 16.521 ± 0.573 $\chi^2/\text{NDF}: 2005.1/39$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2504.654 ± 0.662 $\chi^2/\text{NDF}: 126599.1/15$

Left Out: 2265.348 ± 1.122 $\chi^2/\text{NDF}: 20297.9/2$

Right Out: 2451.880 ± 0.638 $\chi^2/\text{NDF}: 153237.1/18$

Left In: 2433.937 ± 1.322 $\chi^2/\text{NDF}: 16755.0/1$

Left: 2335.932 ± 0.855 $\chi^2/\text{NDF}: 46508.3/4$

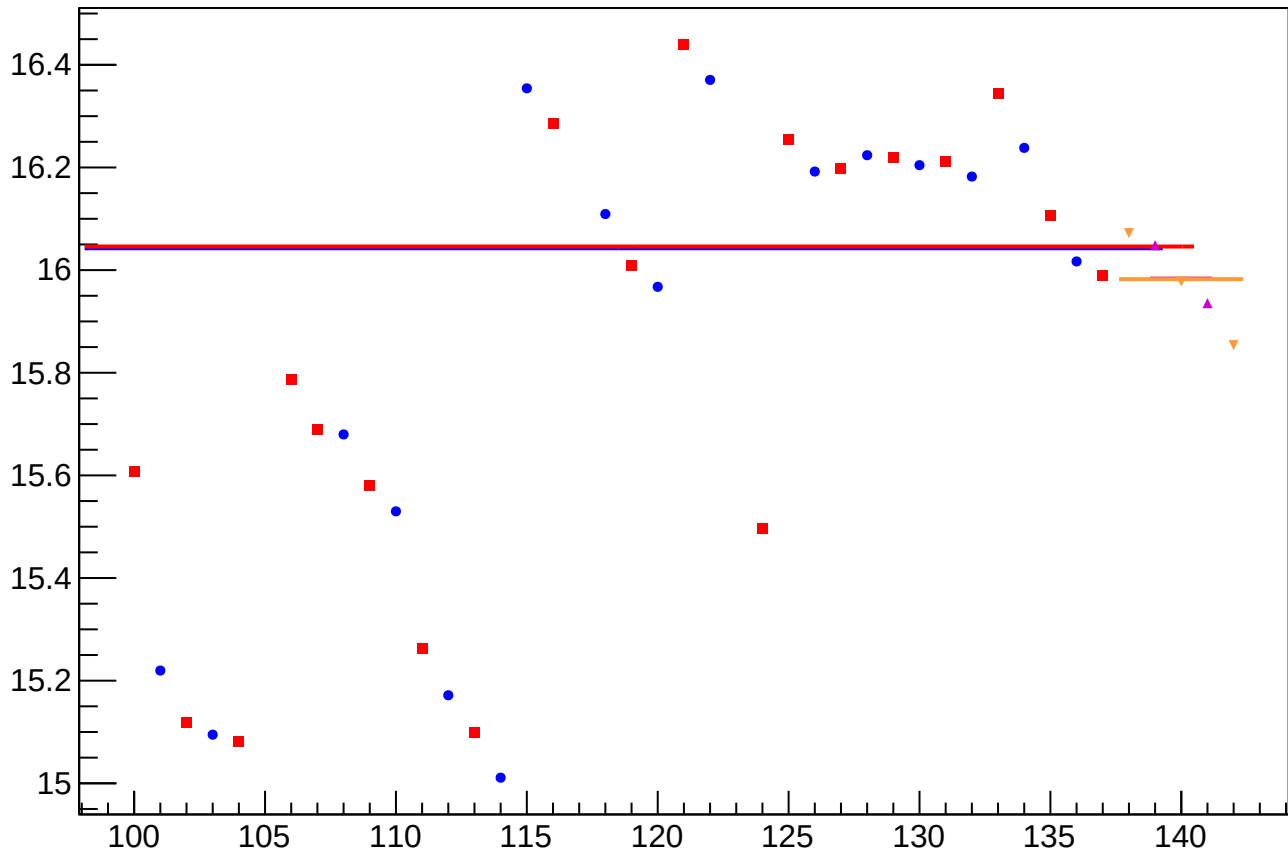
Right: 2477.287 ± 0.460 $\chi^2/\text{NDF}: 283127.8/34$

In: 2490.461 ± 0.592 $\chi^2/\text{NDF}: 145641.5/17$

Out: 2406.266 ± 0.555 $\chi^2/\text{NDF}: 194421.4/21$

All: 2445.617 ± 0.405 $\chi^2/\text{NDF}: 350828.8/39$

yield_sam1_mean vs Slug, Sign Corrected



Right In: 16.043+/-0.000 χ^2/NDF : 2840540588.4/15

Left Out: 15.982+/-0.000 χ^2/NDF : 136474634.6/2

Right Out: 16.046+/-0.000 χ^2/NDF : 3552158387.5/18

Left In: 15.983+/-0.000 χ^2/NDF : 48962310.0/1

Left: 15.983+/-0.000 χ^2/NDF : 185448207.5/4

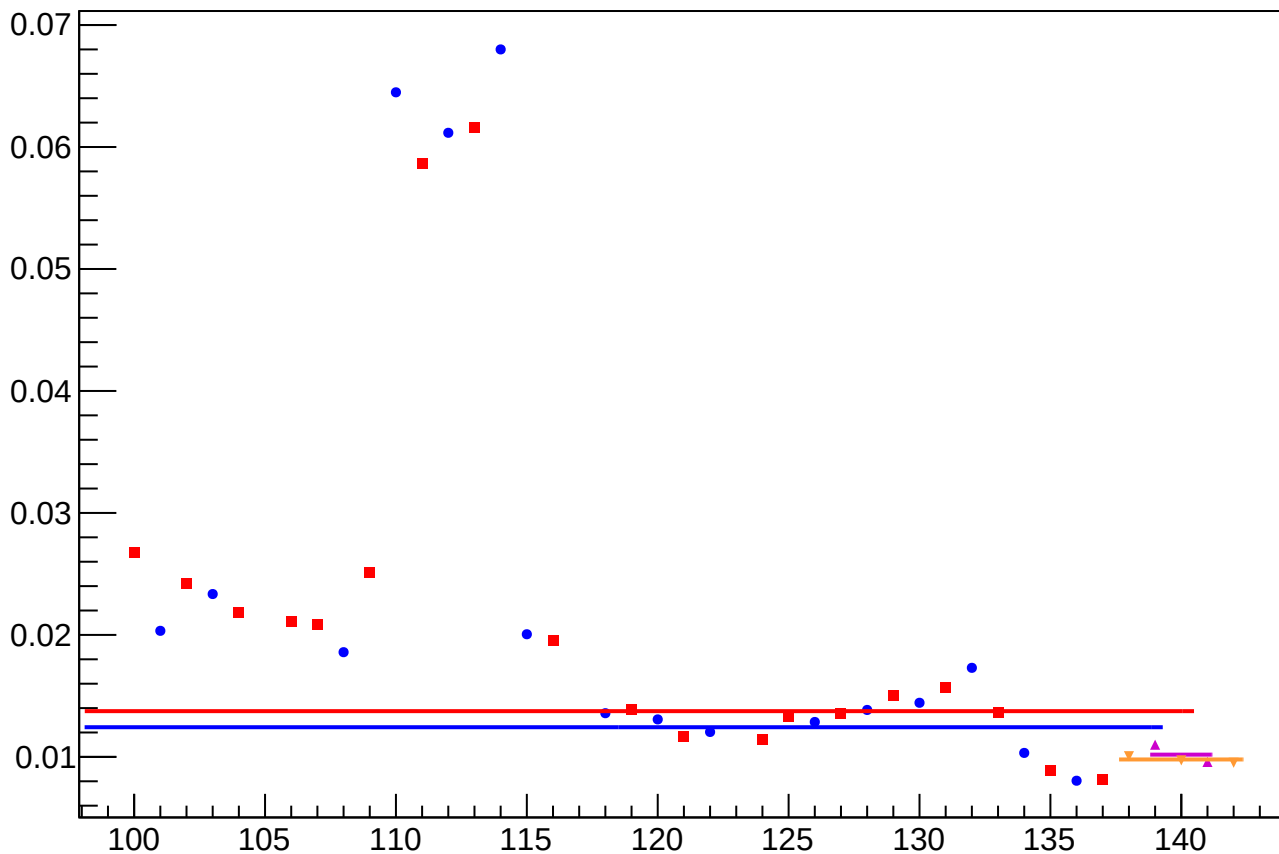
Right: 16.044+/-0.000 χ^2/NDF : 6392885915.7/34

In: 16.024+/-0.000 χ^2/NDF : 2927626476.9/17

Out: 16.020+/-0.000 χ^2/NDF : 3737689442.9/21

All: 16.022+/-0.000 χ^2/NDF : 6665749694.8/3

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 2316842.7/15

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:1807.2/2

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 2230614.9/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:15324.0/1

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 19905.3/4

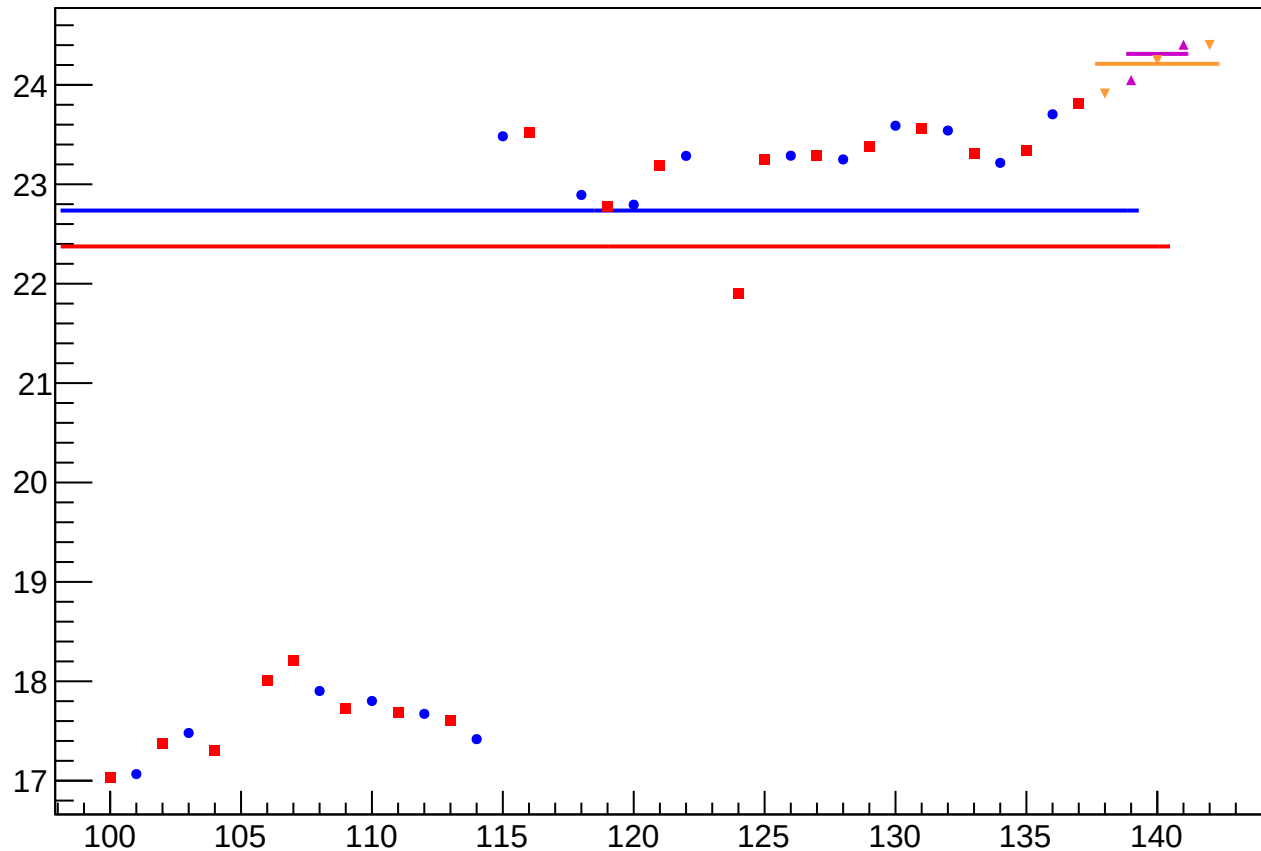
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 4604105.9/34

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2442331.9/17

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2612512.5/21

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 5063447.2/39

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.736 $\pm$ 0.000 χ^2 /NDF: 1220713728.0/15

Left Out: 24.212 $\pm$ 0.000 χ^2 /NDF: 4244440.2/2

Right Out: 22.375 $\pm$ 0.000 χ^2 /NDF: 1215661430.7/18

Left In: 24.312 $\pm$ 0.000 χ^2 /NDF: 2161256.9/1

Left: 24.252 $\pm$ 0.000 χ^2 /NDF: 6936263.8/4

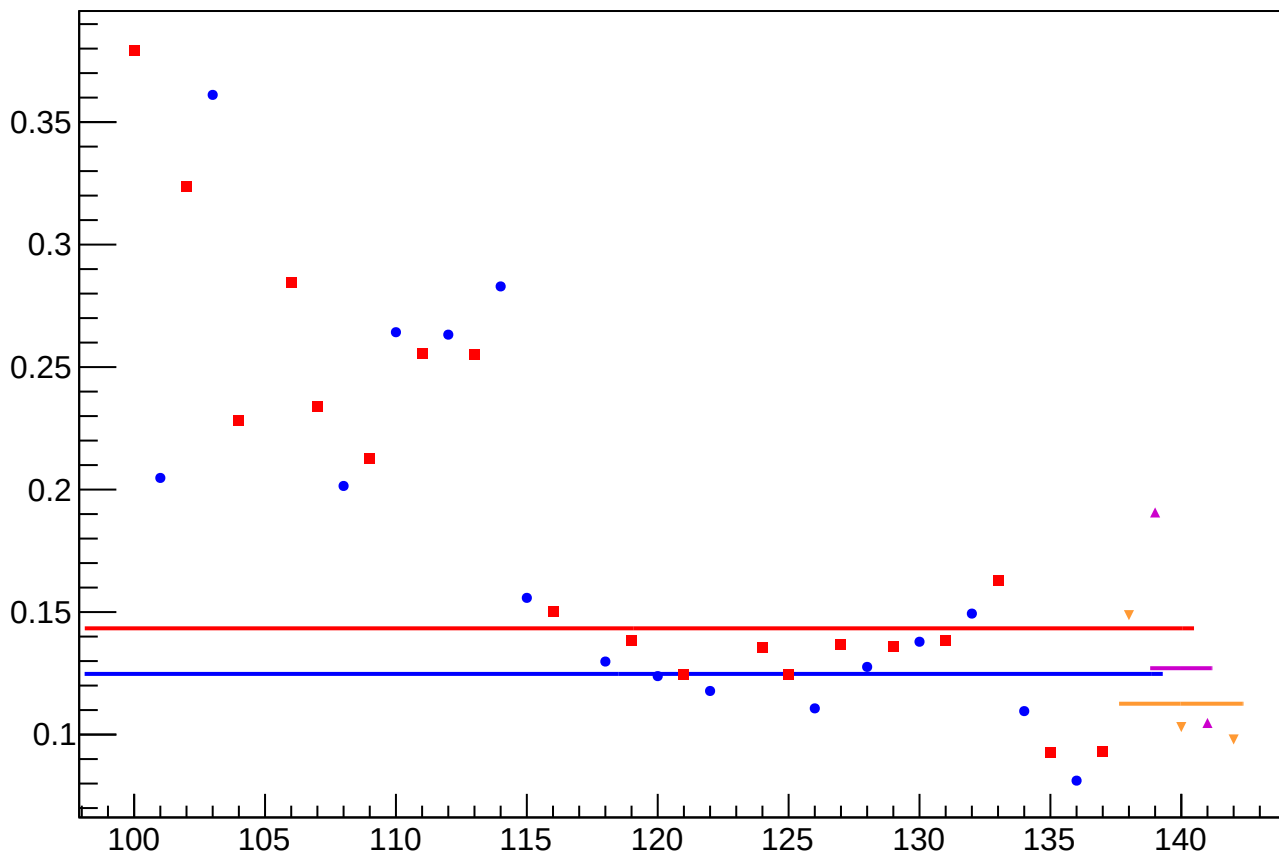
Right: 22.574 $\pm$ 0.000 χ^2 /NDF: 2456494994.8/34

In: 23.059 $\pm$ 0.000 χ^2 /NDF: 1397782940.6/17

Out: 22.960 $\pm$ 0.000 χ^2 /NDF: 1520209613.6/21

All: 23.011 $\pm$ 0.000 χ^2 /NDF: 2920076742.9/3

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.125+/-0.000 χ^2/NDF : 1749818.7/15

Left Out: 0.113+/-0.000 χ^2/NDF : 109164.6/2

Right Out: 0.143+/-0.000 χ^2/NDF : 1570103.9/18

Left In: 0.127+/-0.000 χ^2/NDF : 251752.3/1

Left: 0.118+/-0.000 χ^2/NDF : 383086.1/4

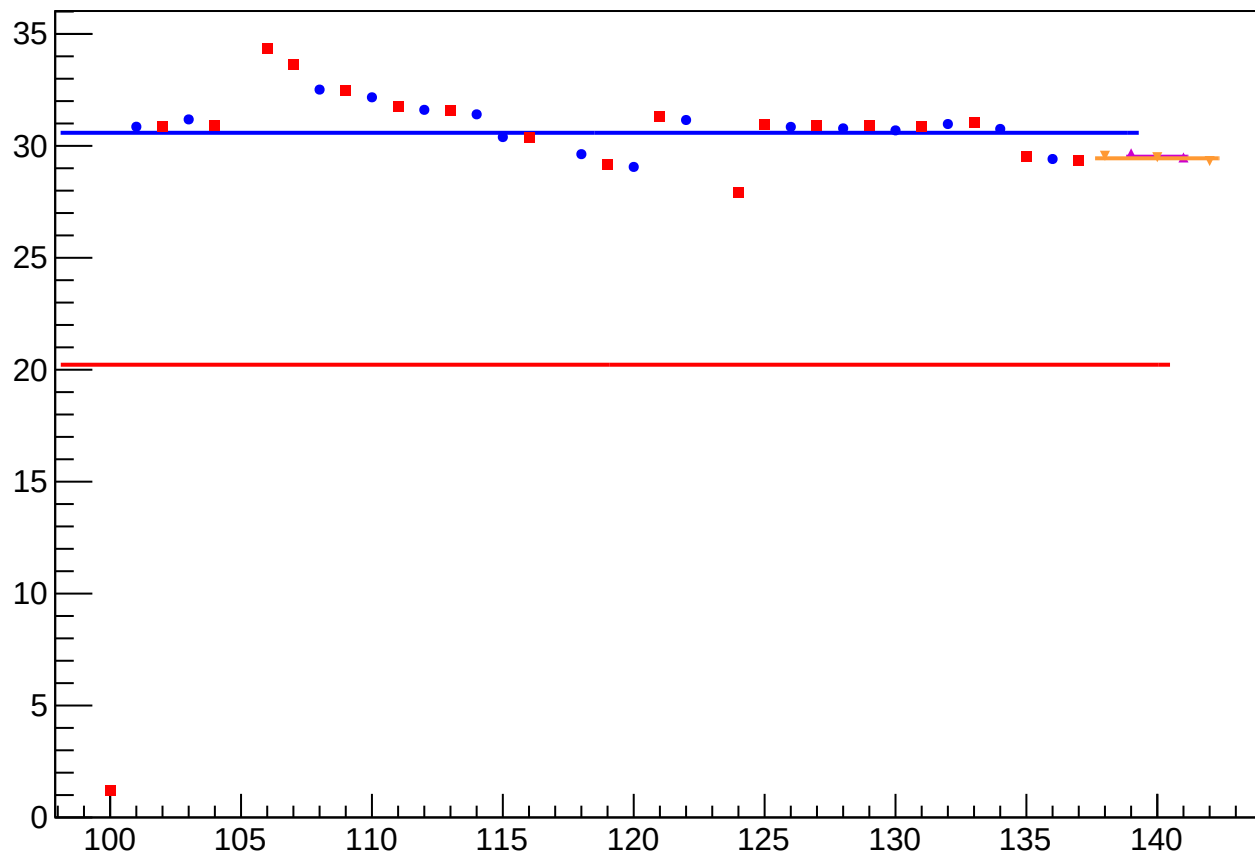
Right: 0.133+/-0.000 χ^2/NDF : 3426627.7/34

In: 0.125+/-0.000 χ^2/NDF : 2002332.5/17

Out: 0.134+/-0.000 χ^2/NDF : 1847816.3/21

All: 0.129+/-0.000 χ^2/NDF : 3879359.8/39

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.585 $\pm$ 0.000

χ^2 /NDF: 652266844.4/15

Left Out: 29.445 $\pm$ 0.000

χ^2 /NDF: 2027111.1/2

Right Out: 20.224 $\pm$ 0.000

χ^2 /NDF: 221262816636.2/18

Left In: 29.517 $\pm$ 0.000

χ^2 /NDF: 881061.0/1

Left: 29.475 $\pm$ 0.000

χ^2 /NDF: 3429635.9/4

Right: 24.530 $\pm$ 0.000

χ^2 /NDF: 270460315915.7/34

In: 30.388 $\pm$ 0.000

χ^2 /NDF: 815345168.3/17

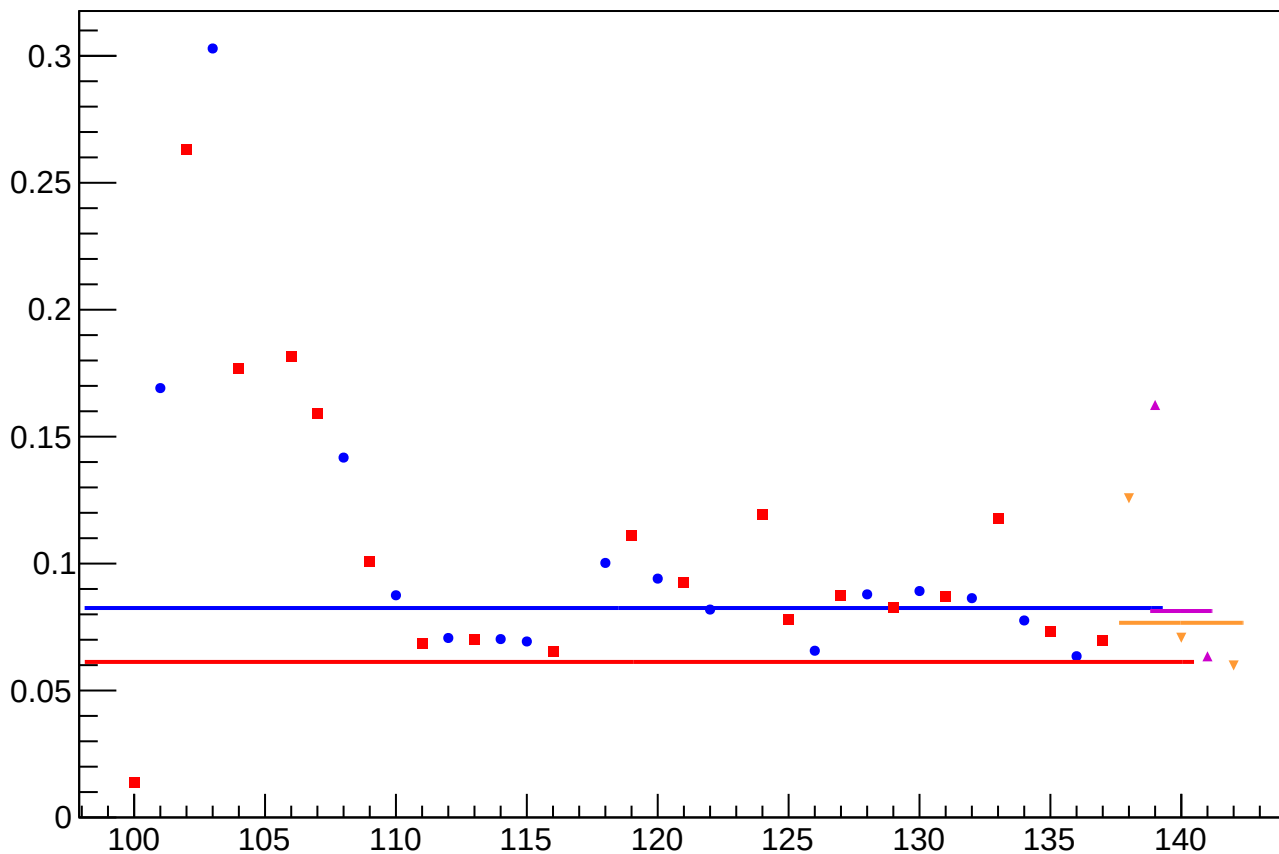
Out: 21.851 $\pm$ 0.000

χ^2 /NDF: 237589489484.3/21

All: 25.418 $\pm$ 0.000

χ^2 /NDF: 278640559865.0/40

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.082 $\pm$ 0.000 χ^2 /NDF: 1261492.7/15

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:251610.2/2

Right Out: 0.061 $\pm$ 0.000 χ^2 /NDF: 4014305.3/18

Left In: 0.081 $\pm$ 0.000 χ^2 /NDF:505053.7/1

Left: 0.079 $\pm$ 0.000 χ^2 /NDF: 760971.3/4

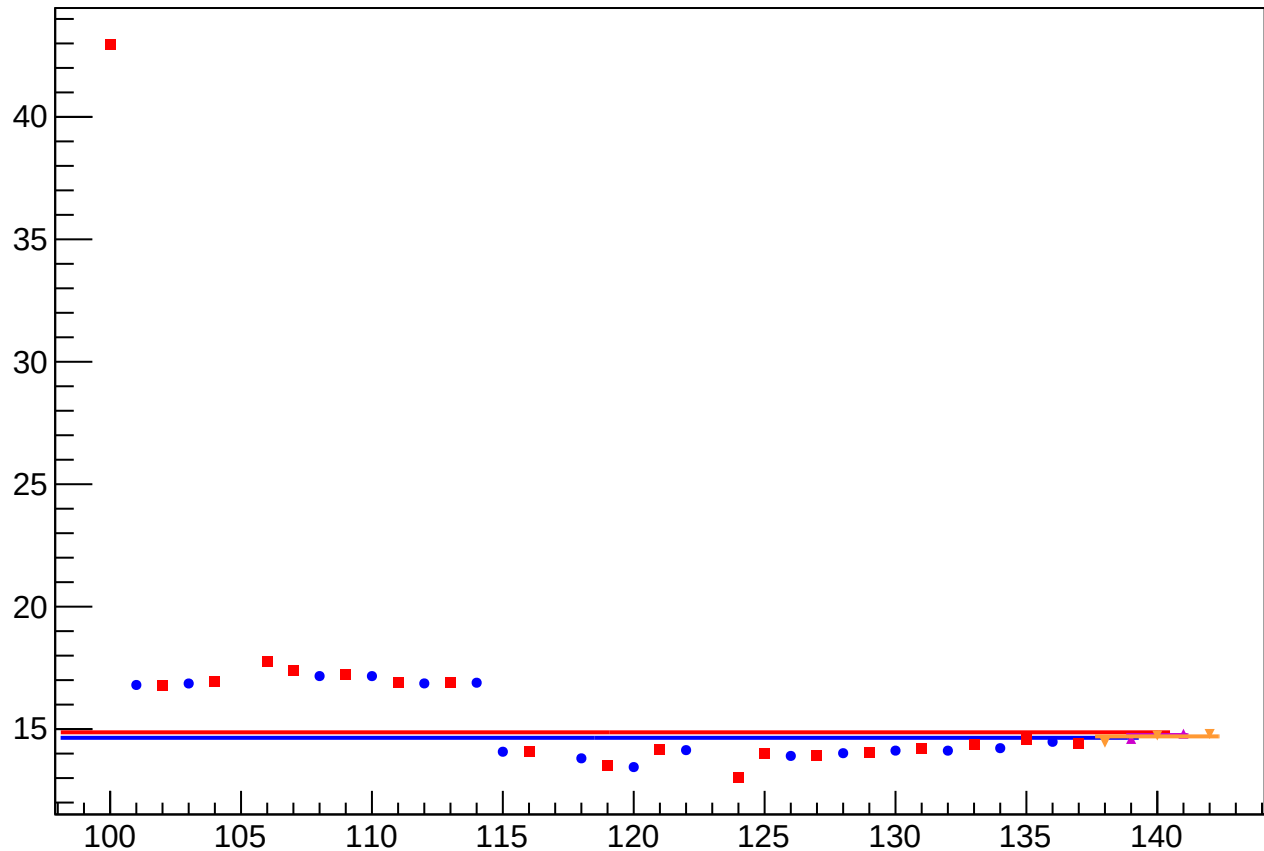
Right: 0.070 $\pm$ 0.000 χ^2 /NDF: 5683622.8/34

In: 0.082 $\pm$ 0.000 χ^2 /NDF:1766938.2/17

Out: 0.064 $\pm$ 0.000 χ^2 /NDF:4357157.8/21

All: 0.072 $\pm$ 0.000 χ^2 /NDF: 6493781.6/39

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.644+/-0.000 χ^2/NDF : 1193913109.5/15

Left Out: 14.702+/-0.000 χ^2/NDF : 4290142.0/2

Right Out: 14.868+/-0.000 χ^2/NDF : 1730040006.8/18

Left In: 14.757+/-0.000 χ^2/NDF : 1795161.5/1

Left: 14.727+/-0.000 χ^2/NDF : 6438261.5/4

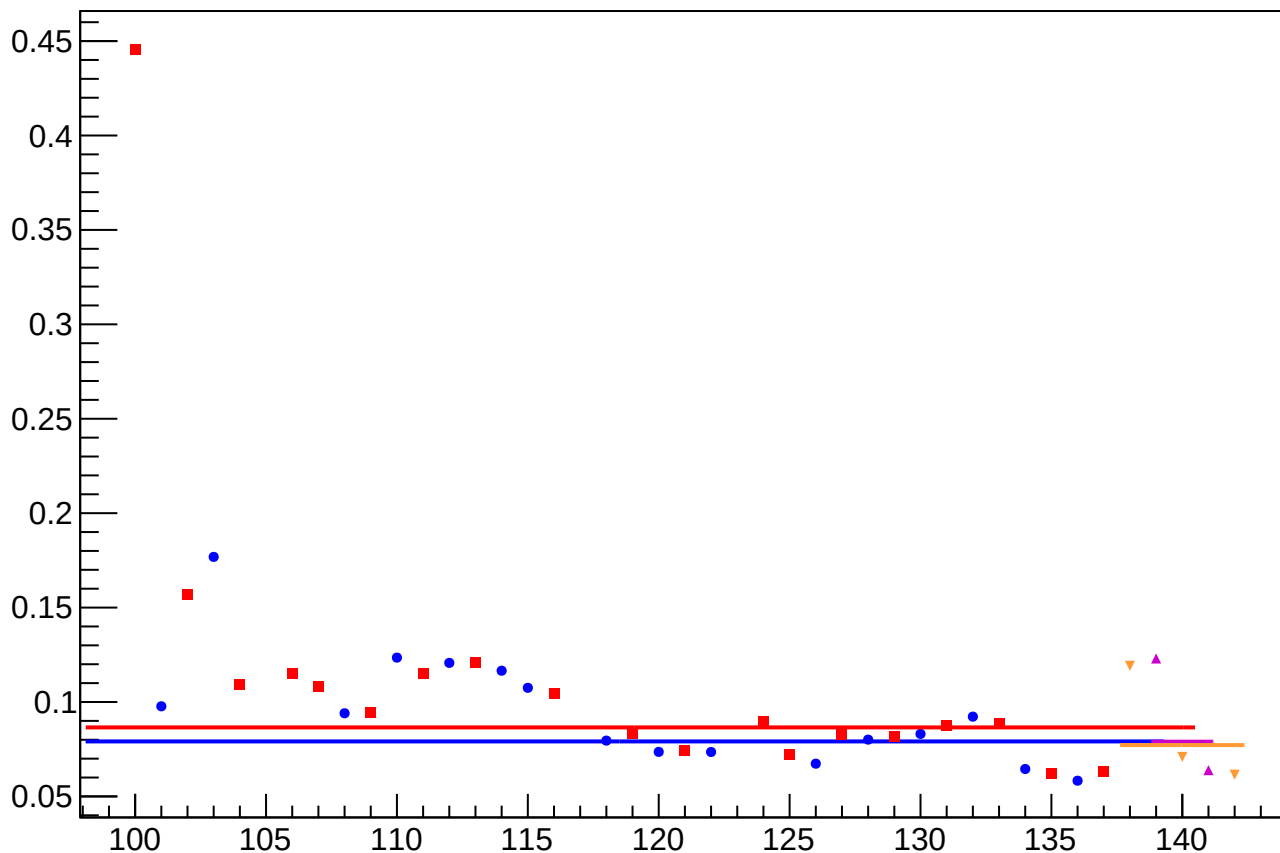
Right: 14.749+/-0.000 χ^2/NDF : 2945878863.1/34

In: 14.665+/-0.000 χ^2/NDF : 1197904657.6/17

Out: 14.828+/-0.000 χ^2/NDF : 1739753969.1/21

All: 14.744+/-0.000 χ^2/NDF : 2952495830.1/3

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.079 ± 0.000 χ^2/NDF : 918198.7/15

Left Out: 0.077 ± 0.000 χ^2/NDF : 229256.7/2

Right Out: 0.087 ± 0.000 χ^2/NDF : 793345.8/18

Left In: 0.079 ± 0.000 χ^2/NDF : 281880.3/1

Left: 0.078 ± 0.000 χ^2/NDF : 511889.7/4

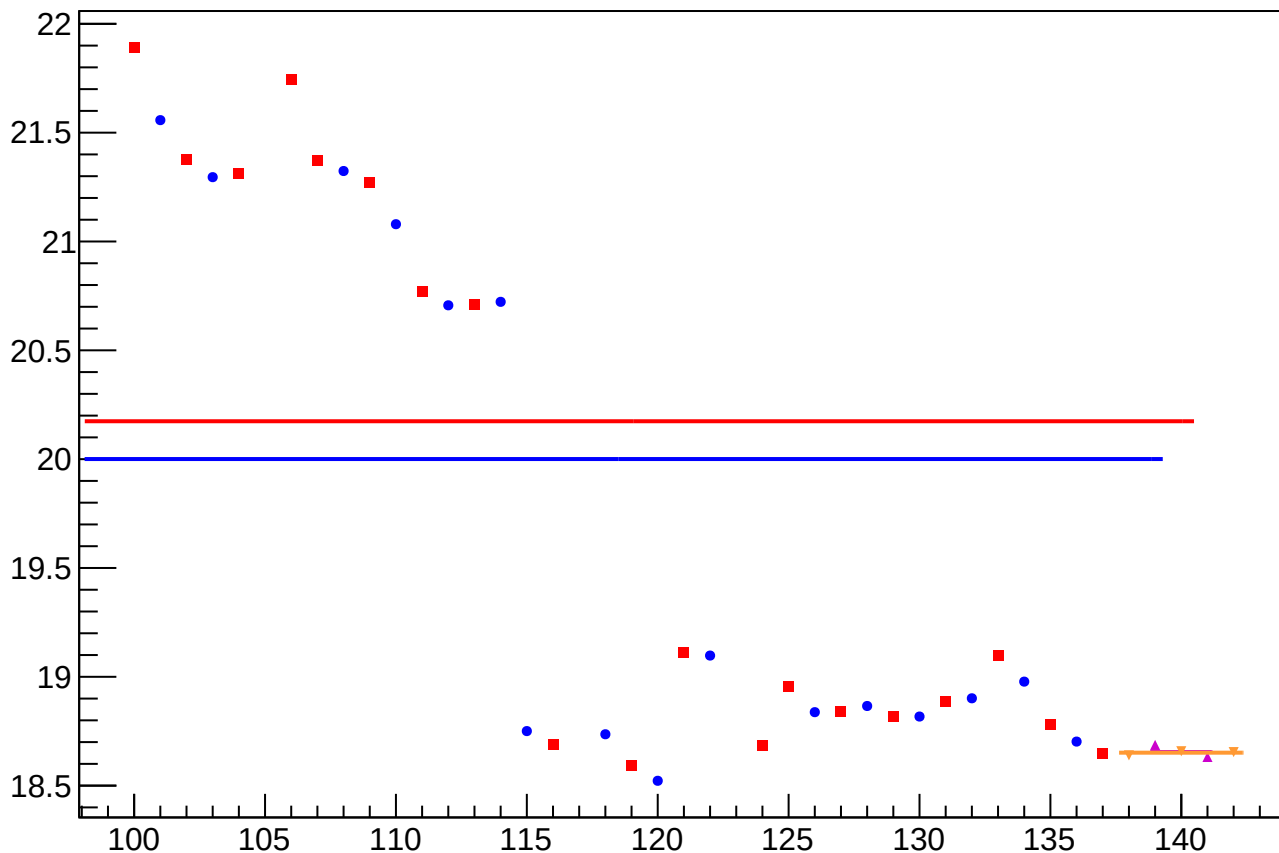
Right: 0.083 ± 0.000 χ^2/NDF : 1759748.9/34

In: 0.079 ± 0.000 χ^2/NDF : 1200085.6/17

Out: 0.084 ± 0.000 χ^2/NDF : 1056993.8/21

All: 0.082 ± 0.000 χ^2/NDF : 2287256.7/39

yield_sam5_mean vs Slug, Sign Corrected



Right In: 20.001+/-0.000

χ^2/NDF : 10878846617.7/15

Left Out: 18.651+/-0.000

χ^2/NDF : 106491.5/2

Right Out: 20.174+/-0.000

χ^2/NDF : 10426322430.8/18

Left In: 18.654+/-0.000

χ^2/NDF : 1053320.6/1

Left: 18.653+/-0.000

χ^2/NDF : 1166296.5/4

Right: 20.087+/-0.000

χ^2/NDF : 21403297693.7/34

In: 19.758+/-0.000

χ^2/NDF : 13002519196.2/17

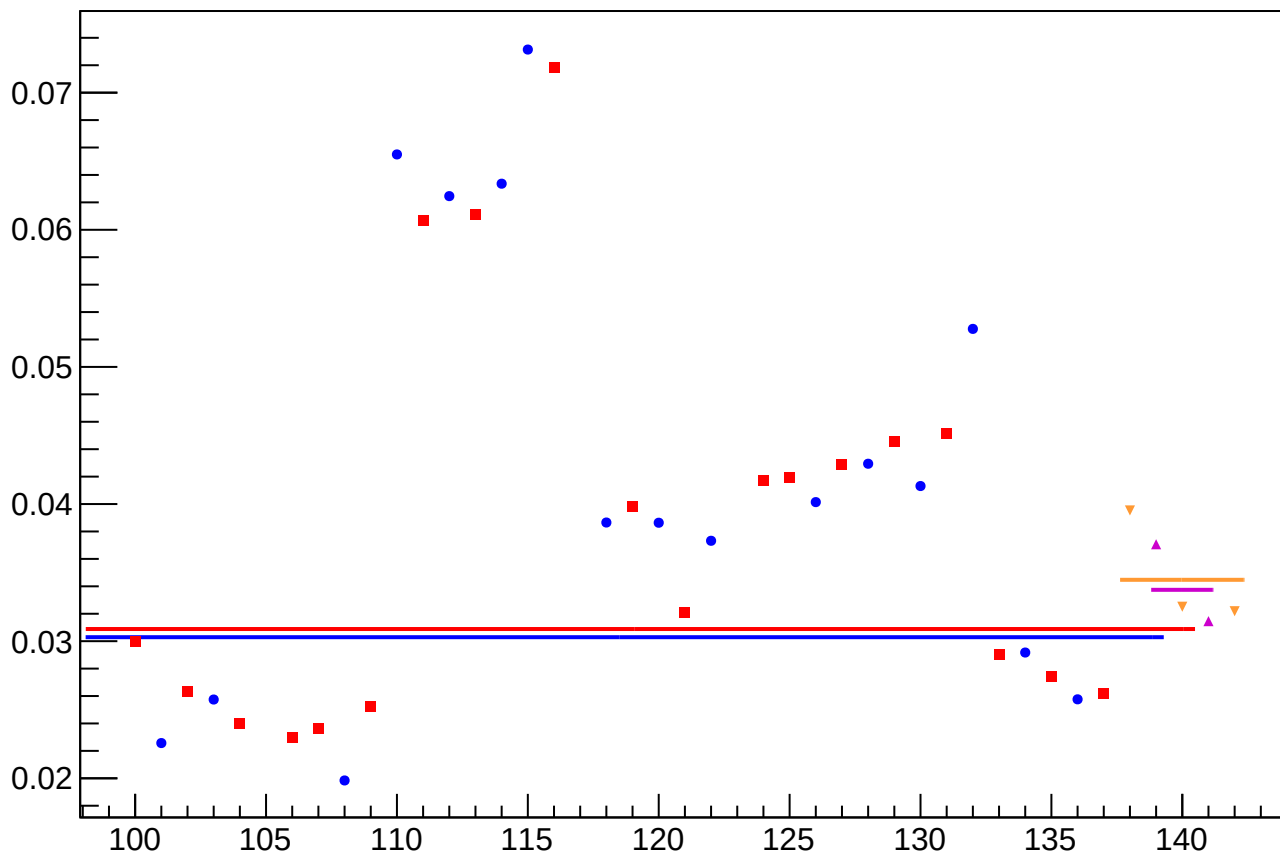
Out: 19.871+/-0.000

χ^2/NDF : 13435348384.8/21

All: 19.815+/-0.000

χ^2/NDF : 26489293994.4

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.030+/-0.000

χ^2/NDF : 1447374.9/15

Left Out: 0.034+/-0.000

χ^2/NDF :34169.6/2

Right Out: 0.031+/-0.000

χ^2/NDF : 1204729.6/18

Left In: 0.034+/-0.000

χ^2/NDF :21697.1/1

Left: 0.034+/-0.000

χ^2/NDF : 56676.6/4

Right: 0.031+/-0.000

χ^2/NDF : 2654419.8/34

In: 0.031+/-0.000

χ^2/NDF :1497031.7/17

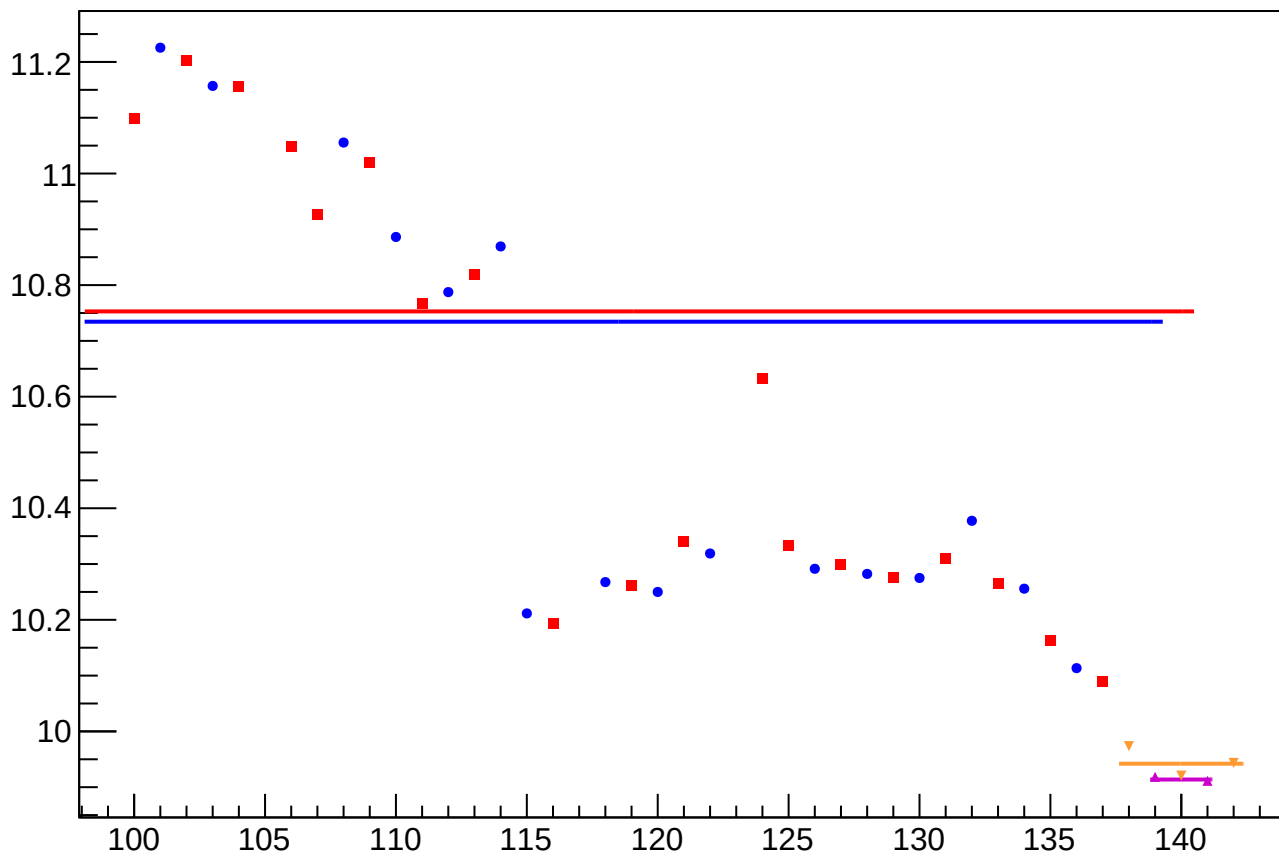
Out: 0.032+/-0.000

χ^2/NDF :1272323.5/21

All: 0.031+/-0.000

χ^2/NDF : 2773158.2/39

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.734+/-0.000 χ^2/NDF : 5879444478.4/15

Left Out: 9.942+/-0.000 χ^2/NDF : 2482257.3/2

Right Out: 10.753+/-0.000 χ^2/NDF : 4344265704.2/18

Left In: 9.914+/-0.000 χ^2/NDF : 39953.0/1

Left: 9.930+/-0.000 χ^2/NDF : 4209801.7/4

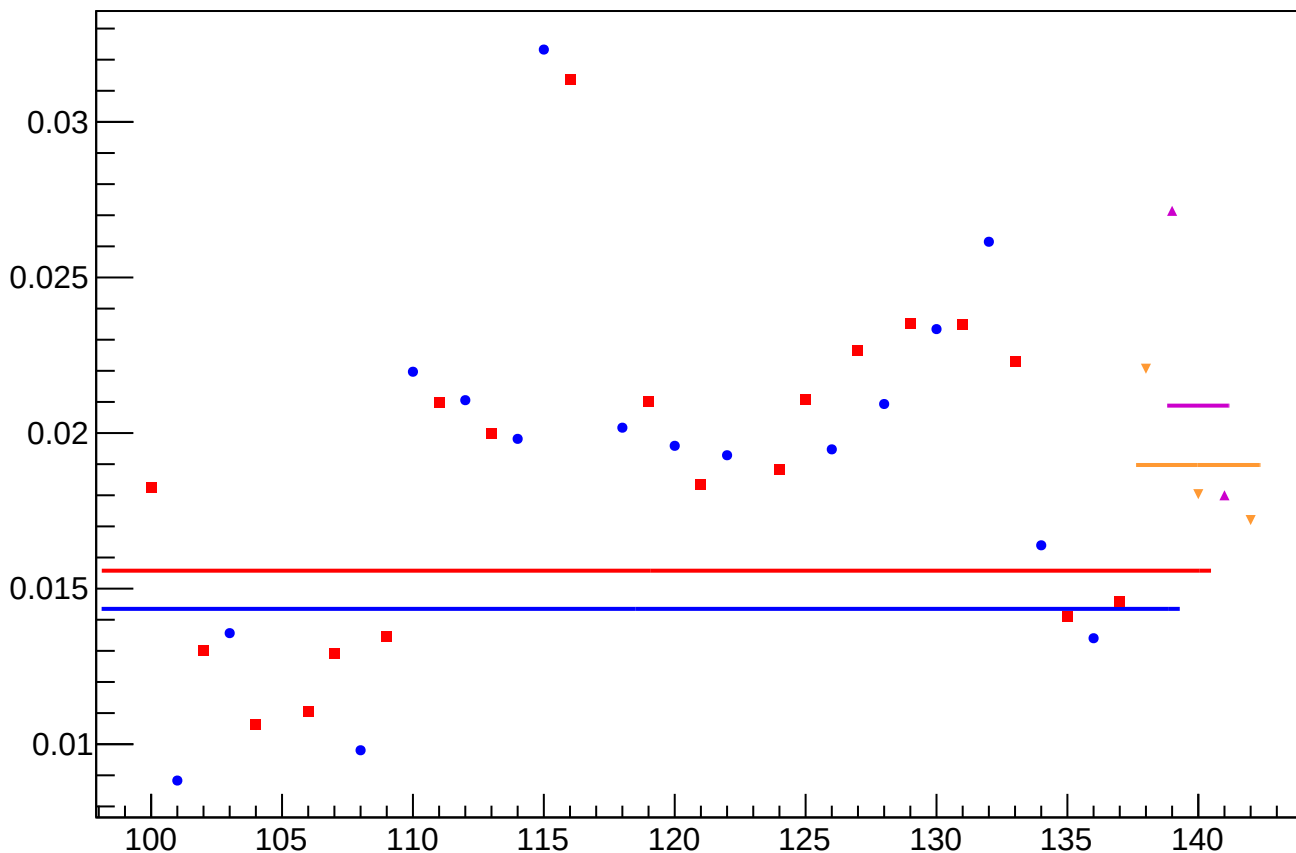
Right: 10.743+/-0.000 χ^2/NDF : 10228218714.9/34

In: 10.640+/-0.000 χ^2/NDF : 8018637339.0/17

Out: 10.618+/-0.000 χ^2/NDF : 7131401486.7/21

All: 10.629+/-0.000 χ^2/NDF : 15157386594.4

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1481790.8/15

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:40506.0/2

Right Out: 0.016 $\pm$ 0.000 χ^2 /NDF: 1071979.1/18

Left In: 0.021 $\pm$ 0.000 χ^2 /NDF:129492.0/1

Left: 0.020 $\pm$ 0.000 χ^2 /NDF: 185303.5/4

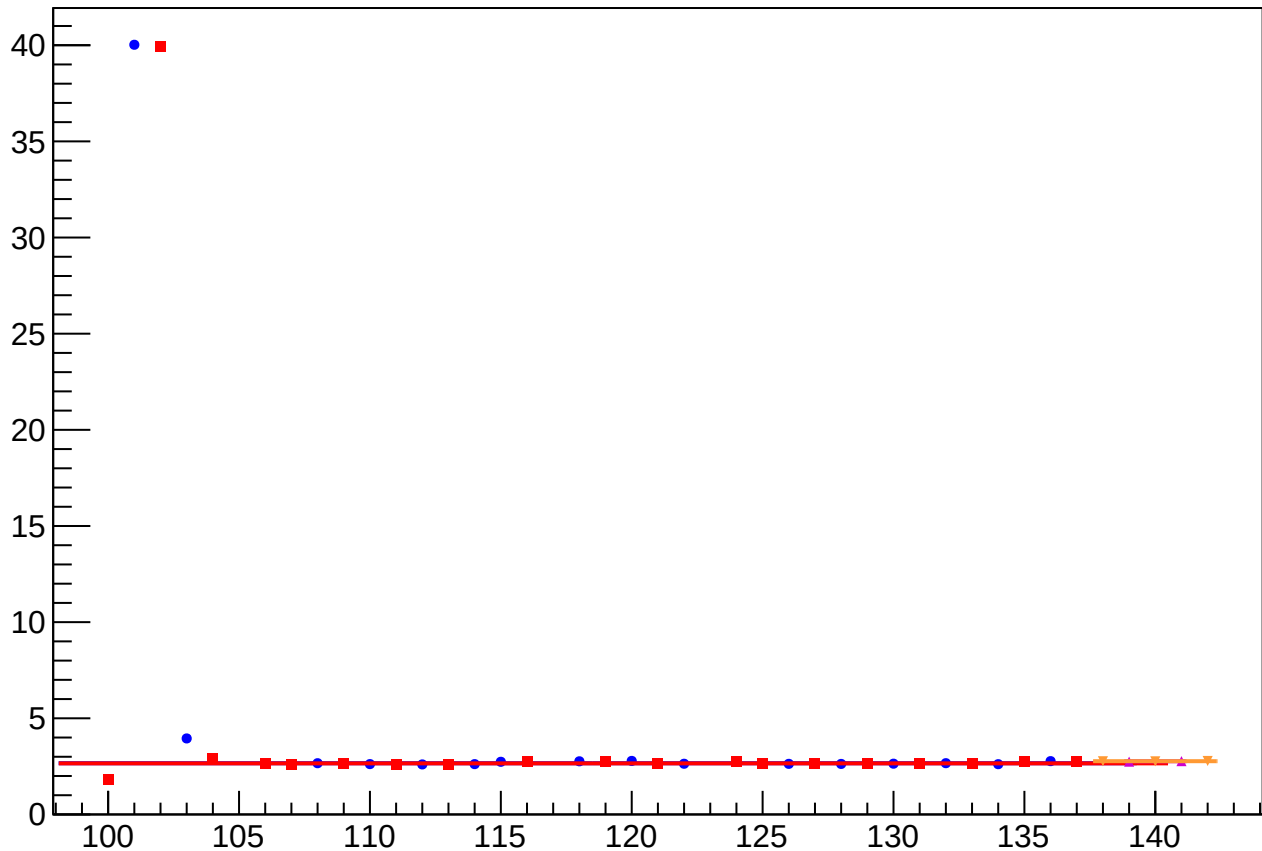
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 2593711.2/34

In: 0.015 $\pm$ 0.000 χ^2 /NDF:1882297.5/17

Out: 0.016 $\pm$ 0.000 χ^2 /NDF:1210246.6/21

All: 0.016 $\pm$ 0.000 χ^2 /NDF: 3125962.1/39

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.664+/-0.000 χ^2/NDF : 67839888284.3/15

Left Out: 2.770+/-0.000 χ^2/NDF : 16913673.8/2

Right Out: 2.656+/-0.000 χ^2/NDF : 65056887880.1/18

Left In: 2.766+/-0.000 χ^2/NDF : 27223053.2/1

Left: 2.768+/-0.000 χ^2/NDF : 45525767.4/4

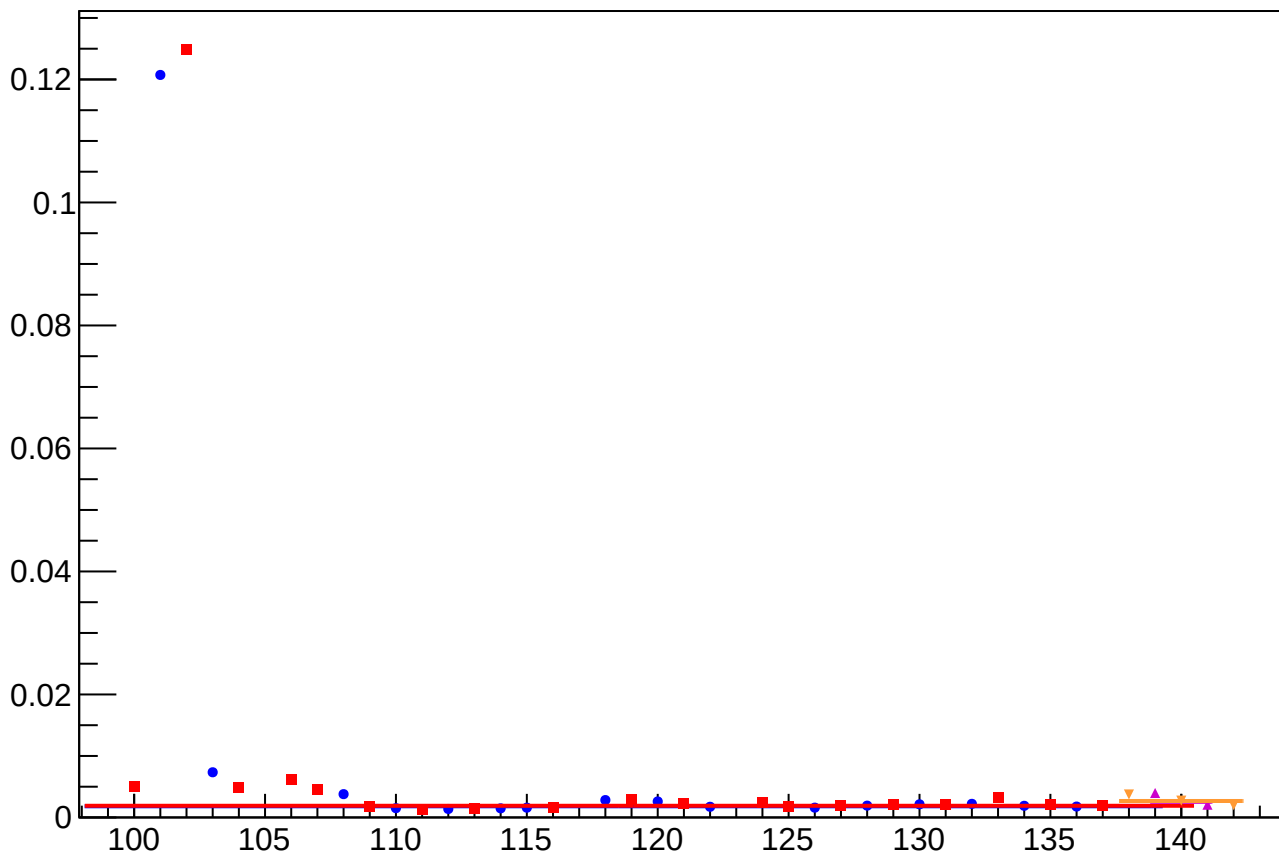
Right: 2.660+/-0.000 χ^2/NDF : 132934575870.3/34

In: 2.677+/-0.000 χ^2/NDF : 69768868716.1/17

Out: 2.672+/-0.000 χ^2/NDF : 67557152344.0/21

All: 2.674+/-0.000 χ^2/NDF : 137342857547.2

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1822680.9/15

Left Out: 0.003+/-0.000 χ^2/NDF :194471.0/2

Right Out: 0.002+/-0.000 χ^2/NDF : 2525514.7/18

Left In: 0.003+/-0.000 χ^2/NDF :276970.4/1

Left: 0.003+/-0.000 χ^2/NDF : 475469.2/4

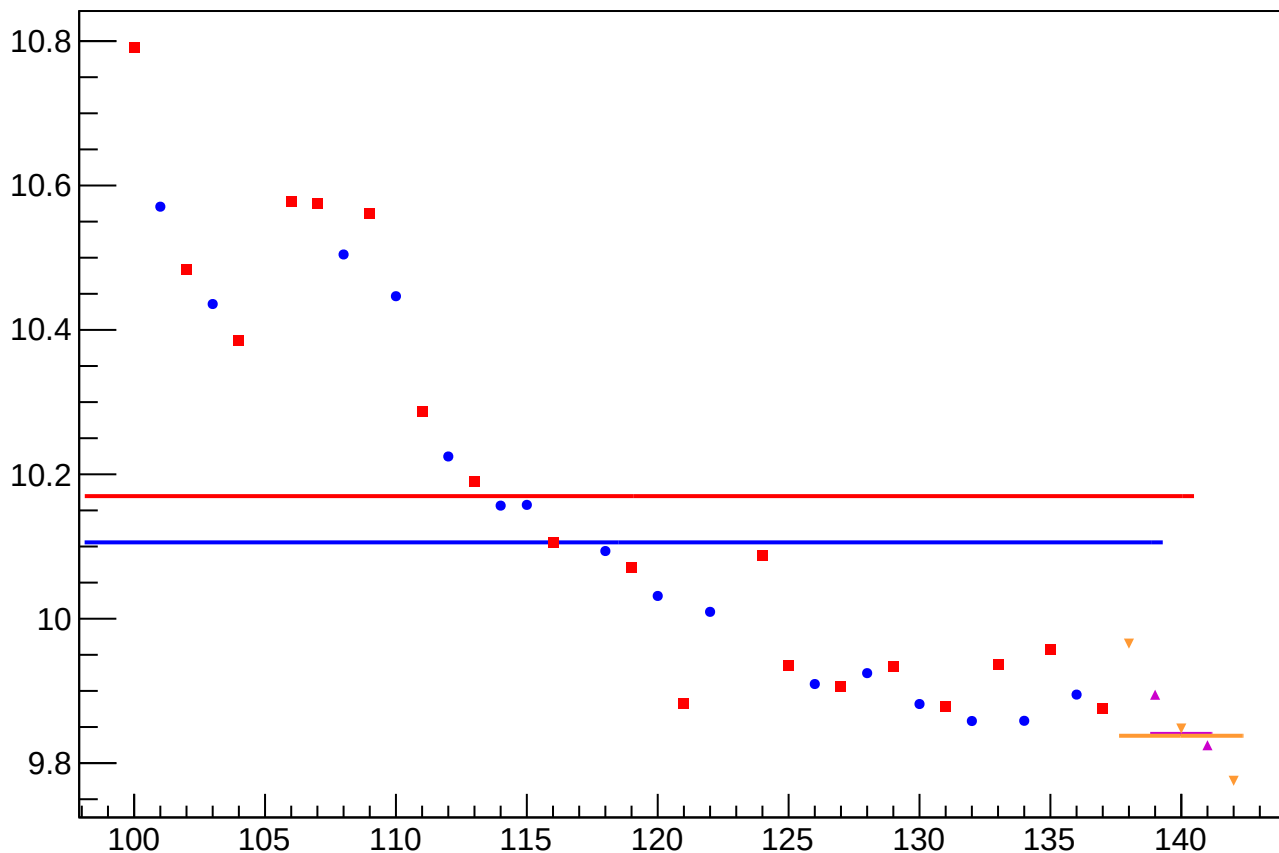
Right: 0.002+/-0.000 χ^2/NDF : 4358433.6/34

In: 0.002+/-0.000 χ^2/NDF :2290481.1/17

Out: 0.002+/-0.000 χ^2/NDF :2953859.8/21

All: 0.002+/-0.000 χ^2/NDF : 5261020.4/39

yield_sam8_mean vs Slug, Sign Corrected



Right In: 10.106+/-0.000 χ^2/NDF : 9126550621.3/15

Left Out: 9.838+/-0.000 χ^2/NDF : 114587377.5/2

Right Out: 10.170+/-0.000 χ^2/NDF : 9135610954.1/18

Left In: 9.840+/-0.000 χ^2/NDF : 21200876.0/1

Left: 9.839+/-0.000 χ^2/NDF : 135868949.1/4

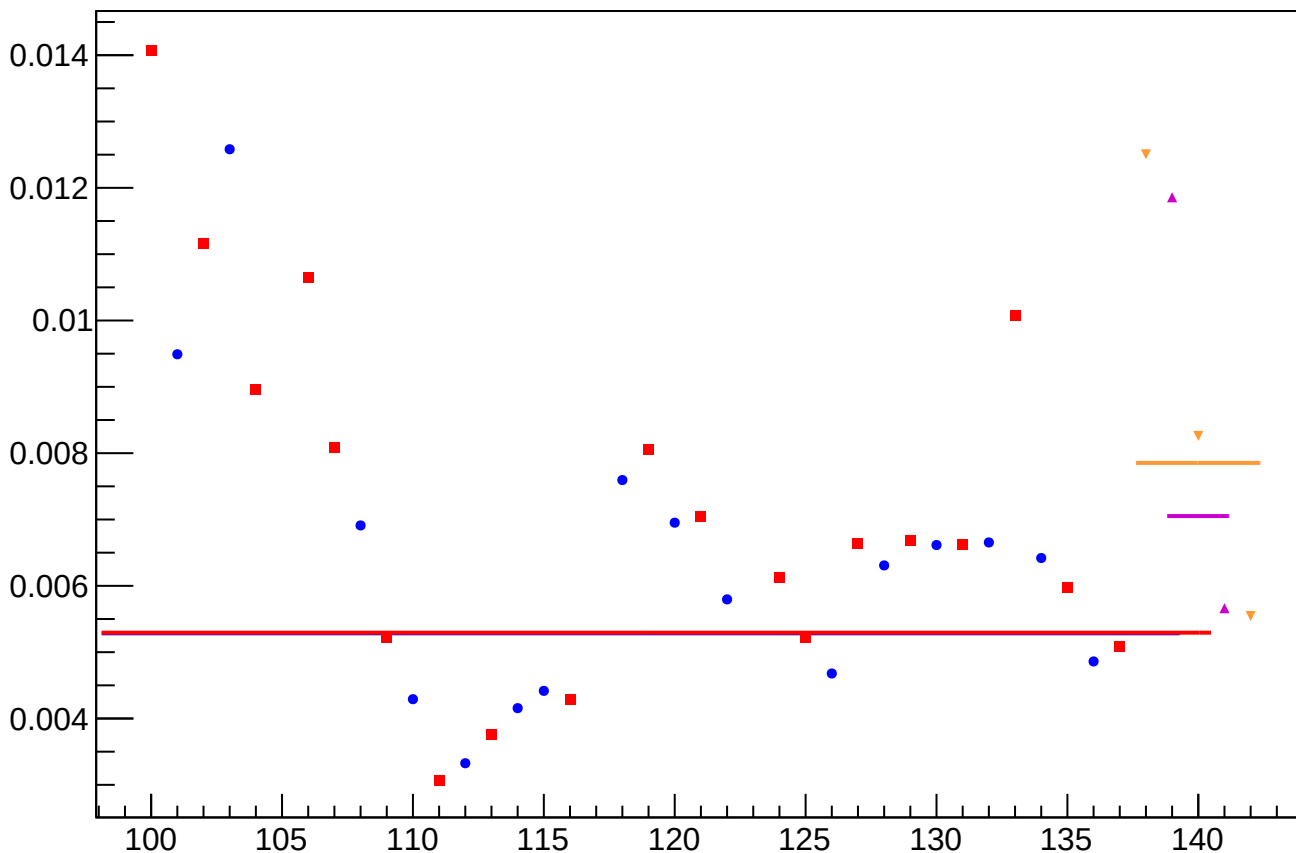
Right: 10.138+/-0.000 χ^2/NDF : 18662438112.6/34

In: 10.075+/-0.000 χ^2/NDF : 10700025136.2/17

Out: 10.134+/-0.000 χ^2/NDF : 11609552840.0/21

All: 10.105+/-0.000 χ^2/NDF : 22681411512.6

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000

χ^2/NDF : 1274133.0/15

Left Out: 0.008+/-0.000

χ^2/NDF :308515.7/2

Right Out: 0.005+/-0.000

χ^2/NDF : 1792250.8/18

Left In: 0.007+/-0.000

χ^2/NDF :332480.4/1

Left: 0.007+/-0.000

χ^2/NDF : 656699.3/4

Right: 0.005+/-0.000

χ^2/NDF : 3066401.4/34

In: 0.005+/-0.000

χ^2/NDF :1744439.1/17

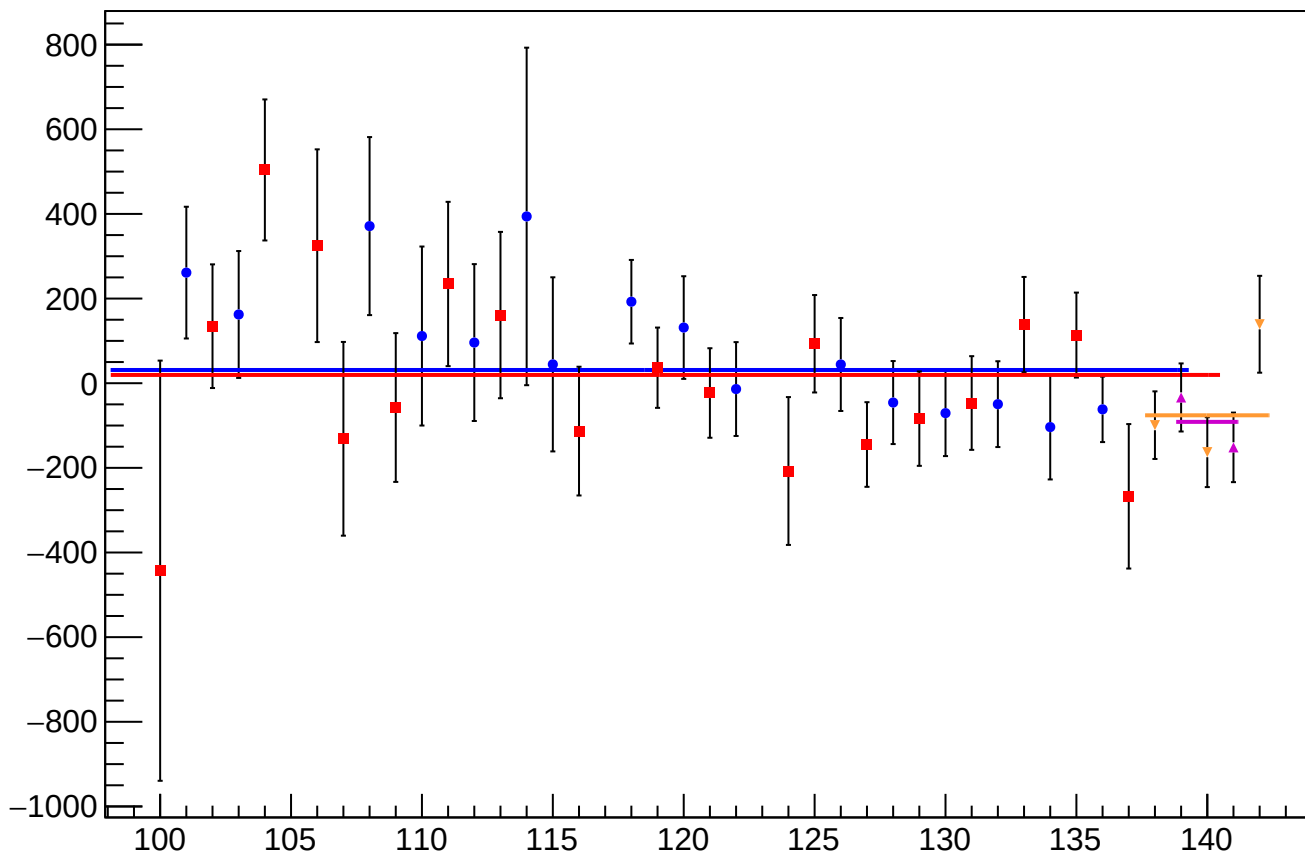
Out: 0.006+/-0.000

χ^2/NDF :2381353.3/21

All: 0.006+/-0.000

χ^2/NDF : 4127431.3/39

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: 31.249+/-30.786 χ^2/NDF : 15.1/15

Left Out: -75.831+/-51.309 χ^2/NDF : 4.7/2

Right Out: 19.573+/-31.059 χ^2/NDF : 25.9/18

Left In: -91.349+/-57.474 χ^2/NDF : 1.1/1

Left: -82.714+/-38.276 χ^2/NDF : 5.8/4

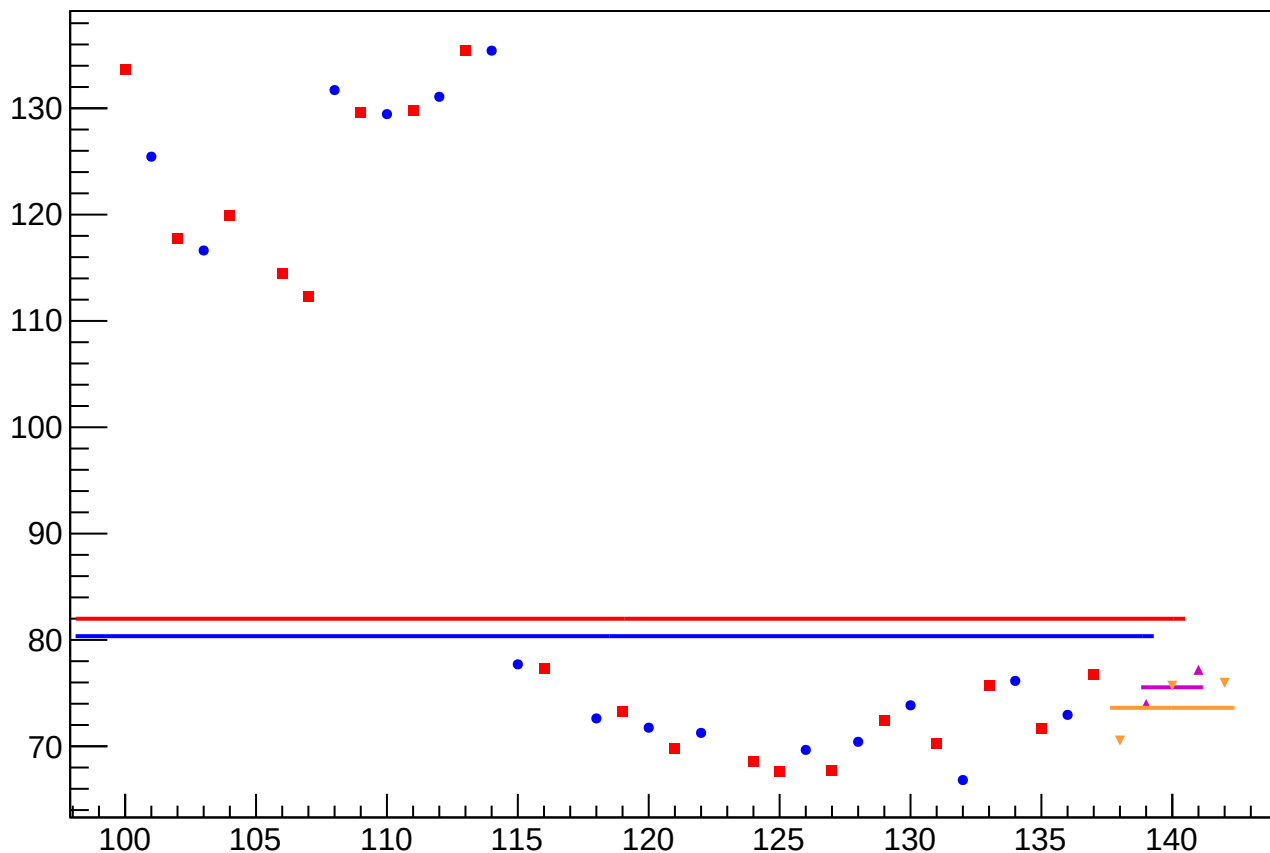
Right: 25.463+/-21.865 χ^2/NDF : 41.1/34

In: 3.915+/-27.138 χ^2/NDF : 19.7/17

Out: -6.010+/-26.570 χ^2/NDF : 33.2/21

All: -1.153+/-18.985 χ^2/NDF : 52.9/39

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 80.354+/-0.022 χ^2/NDF : 840039.5/15

Left Out: 73.616+/-0.036 χ^2/NDF : 5095.2/2

Right Out: 81.993+/-0.022 χ^2/NDF : 932337.7/18

Left In: 75.545+/-0.041 χ^2/NDF : 1568.0/1

Left: 74.472+/-0.027 χ^2/NDF : 7916.4/4

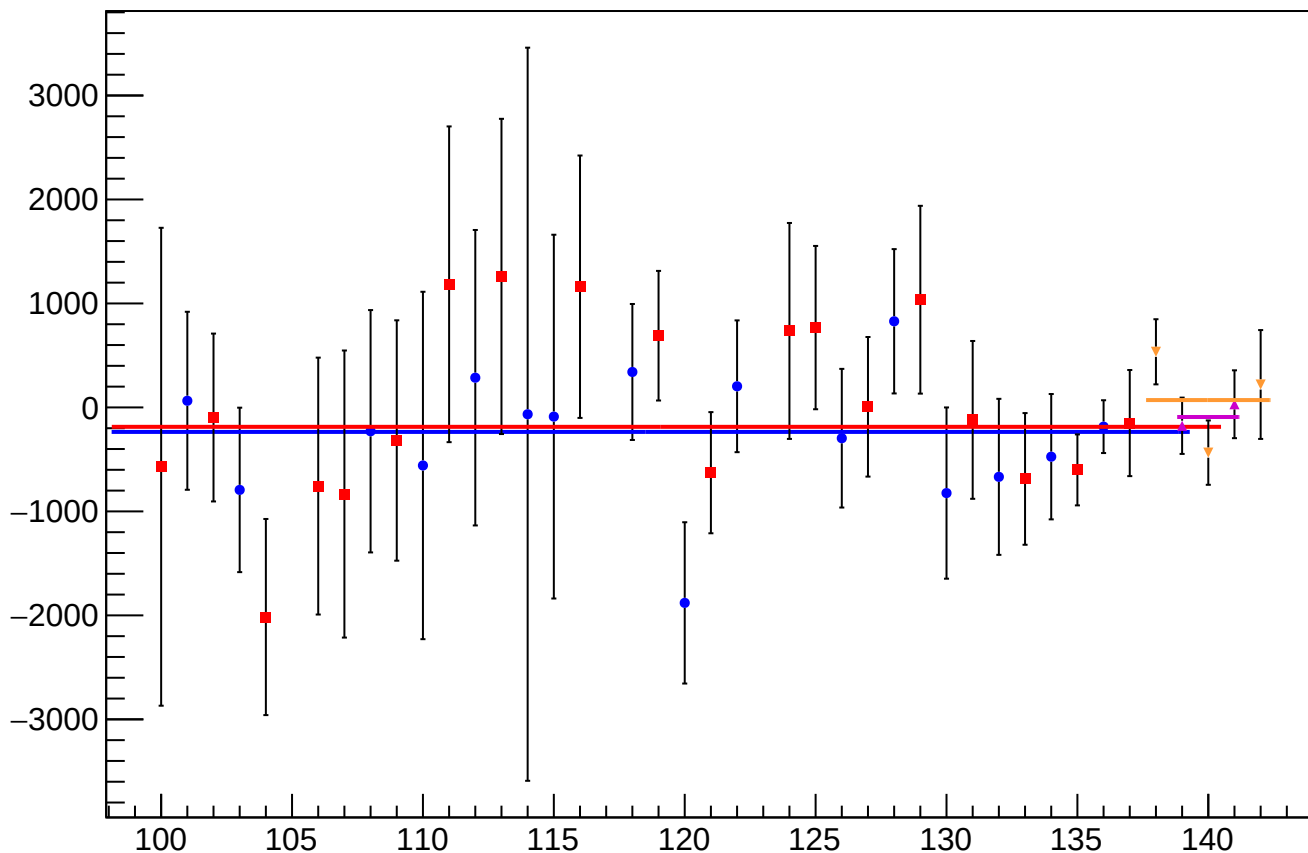
Right: 81.166+/-0.015 χ^2/NDF : 1775186.5/34

In: 79.282+/-0.019 χ^2/NDF : 852487.4/17

Out: 79.747+/-0.019 χ^2/NDF : 976443.3/21

All: 79.519+/-0.013 χ^2/NDF : 1829230.4/39

asym_sam1_reg_correction_mean vs Slug, Sign Corrected



Right In: -235.521 ± 163.765 χ^2/NDF : 9.9/15

Left Out: 70.699 ± 202.920 χ^2/NDF : 4.9/2

Right Out: -186.618 ± 170.394 χ^2/NDF : 16.0/18

Left In: -92.033 ± 208.379 χ^2/NDF : 0.2/1

Left: -8.507 ± 145.378 χ^2/NDF : 5.5/4

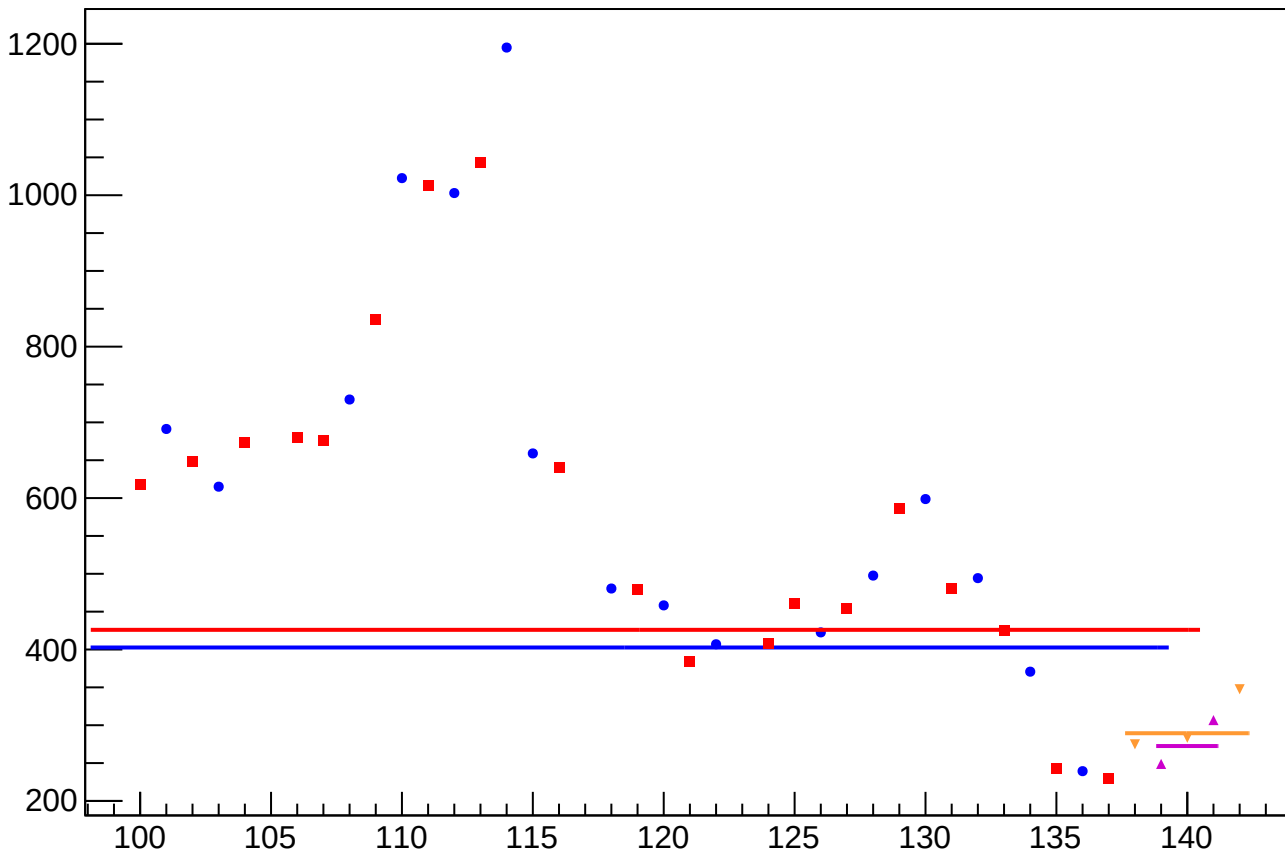
Right: -212.039 ± 118.073 χ^2/NDF : 25.9/34

In: -180.735 ± 128.760 χ^2/NDF : 10.5/17

Out: -80.210 ± 130.490 χ^2/NDF : 21.8/21

All: -131.144 ± 91.653 χ^2/NDF : 32.6/39

asym_sam1_reg_correction_rms vs Slug, Sign Corrected



Right In: 402.658 $\pm$ 0.116 χ^2 /NDF: 2360092.2/15

Left Out: 289.427 $\pm$ 0.143 χ^2 /NDF: 29752.2/2

Right Out: 425.980 $\pm$ 0.120 χ^2 /NDF: 2368792.4/18

Left In: 272.510 $\pm$ 0.147 χ^2 /NDF: 37258.4/1

Left: 281.193 $\pm$ 0.103 χ^2 /NDF: 73776.4/4

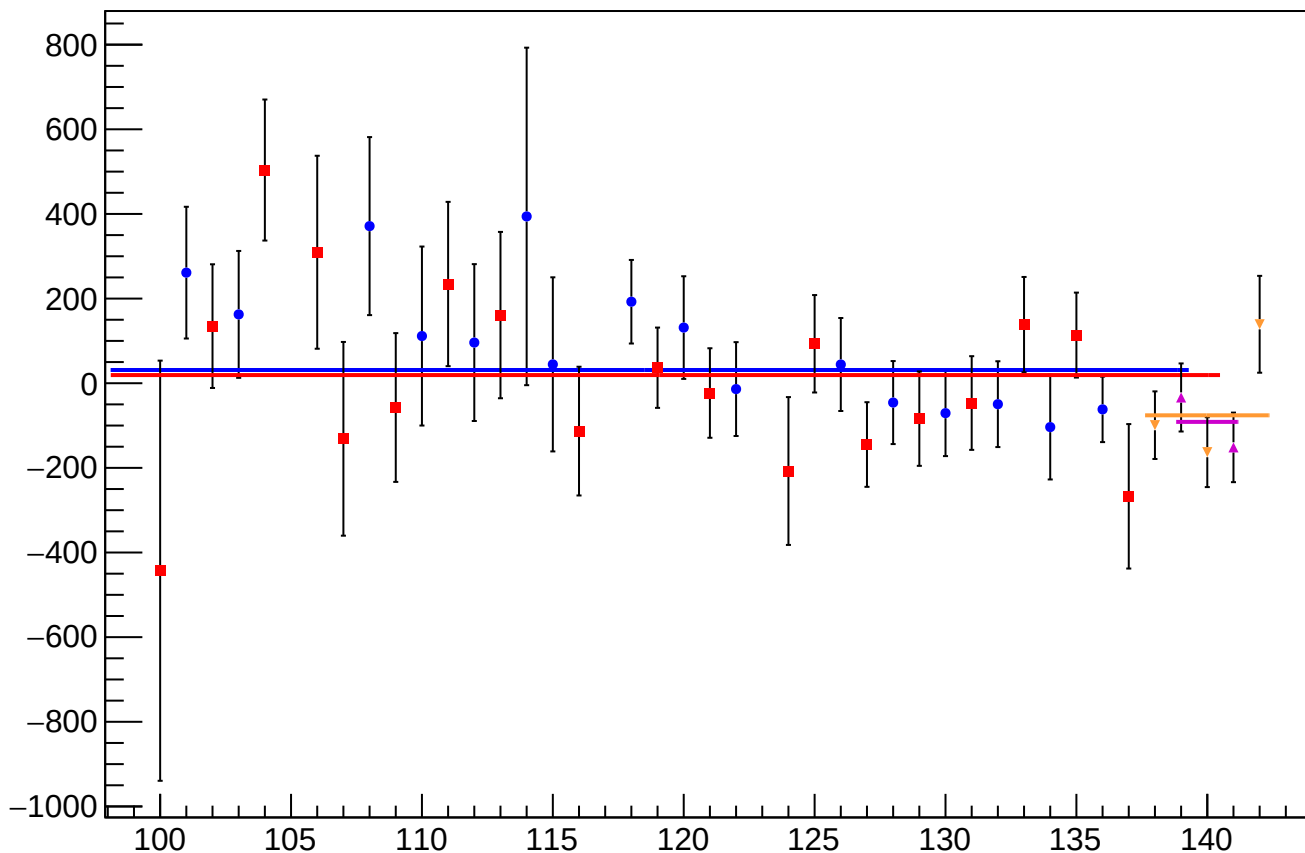
Right: 413.856 $\pm$ 0.083 χ^2 /NDF: 4748361.6/34

In: 352.965 $\pm$ 0.091 χ^2 /NDF: 2879648.6/17

Out: 369.511 $\pm$ 0.092 χ^2 /NDF: 2929711.4/21

All: 361.128 $\pm$ 0.065 χ^2 /NDF: 5825651.9/39

cor_asym_sam1_mean vs Slug, Sign Corrected



Right In: 31.260+/-30.786 χ^2/NDF : 15.1/15

Left Out: -75.828+/-51.309 χ^2/NDF : 4.7/2

Right Out: 19.282+/-31.060 χ^2/NDF : 25.7/18

Left In: -91.346+/-57.474 χ^2/NDF : 1.1/1

Left: -82.710+/-38.276 χ^2/NDF : 5.8/4

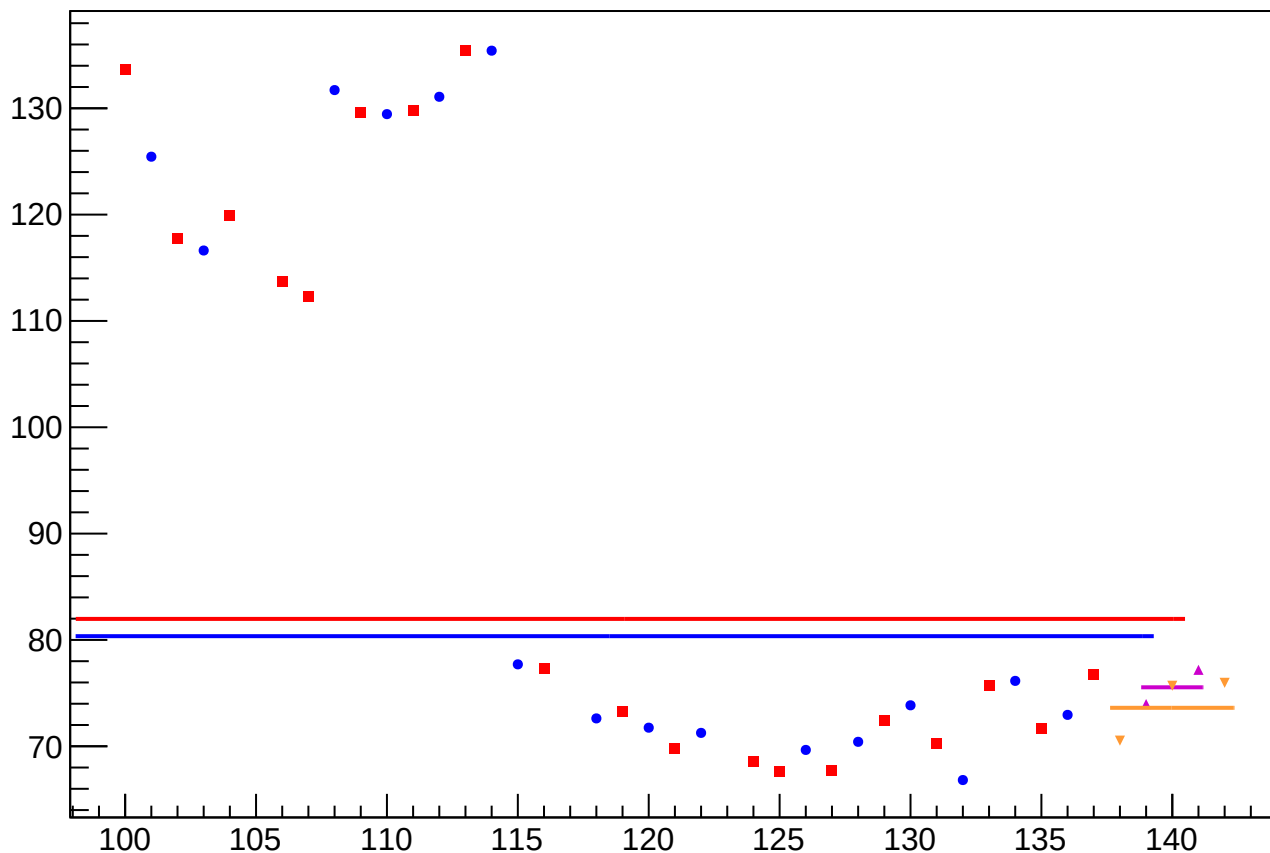
Right: 25.324+/-21.865 χ^2/NDF : 40.9/34

In: 3.924+/-27.138 χ^2/NDF : 19.7/17

Out: -6.224+/-26.570 χ^2/NDF : 33.0/21

All: -1.257+/-18.986 χ^2/NDF : 52.7/39

cor_asym_sam1_rms vs Slug, Sign Corrected



Right In: 80.354 $\pm$ 0.022 χ^2 /NDF: 840039.7/15

Left Out: 73.616 $\pm$ 0.036 χ^2 /NDF: 5095.2/2

Right Out: 81.978 $\pm$ 0.022 χ^2 /NDF: 930466.5/18

Left In: 75.545 $\pm$ 0.041 χ^2 /NDF: 1568.0/1

Left: 74.472 $\pm$ 0.027 χ^2 /NDF: 7916.4/4

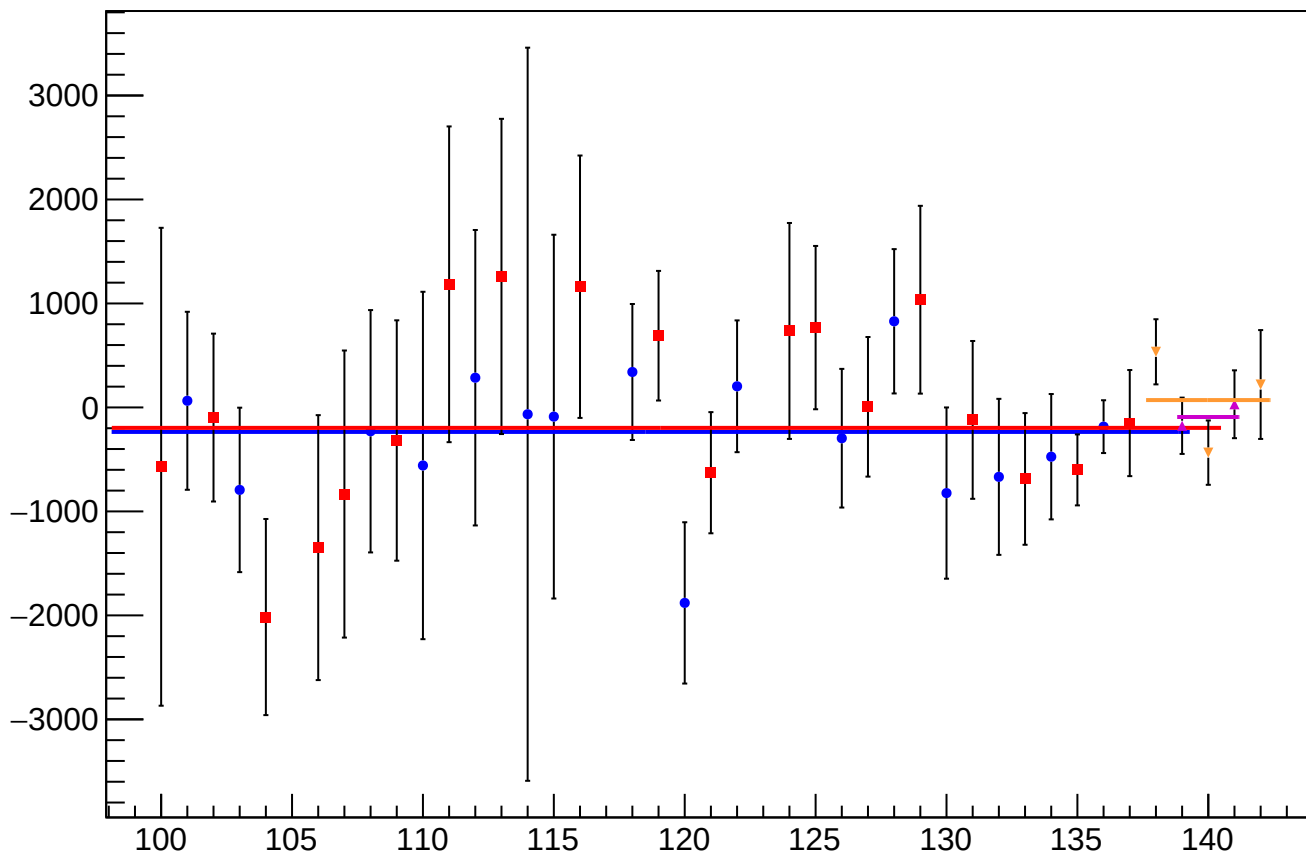
Right: 81.159 $\pm$ 0.015 χ^2 /NDF: 1773264.0/34

In: 79.282 $\pm$ 0.019 χ^2 /NDF: 852487.6/17

Out: 79.736 $\pm$ 0.019 χ^2 /NDF: 974431.5/21

All: 79.513 $\pm$ 0.013 χ^2 /NDF: 1827204.6/39

asym_sam1_cor_correction_mean vs Slug, Sign Corrected



Right In: -235.519 ± 163.765 χ^2/NDF : 9.9/15

Left Out: 70.700 ± 202.920 χ^2/NDF : 4.9/2

Right Out: -196.579 ± 170.492 χ^2/NDF : 16.6/18

Left In: -92.033 ± 208.379 χ^2/NDF : 0.2/1

Left: -8.507 ± 145.378 χ^2/NDF : 5.5/4

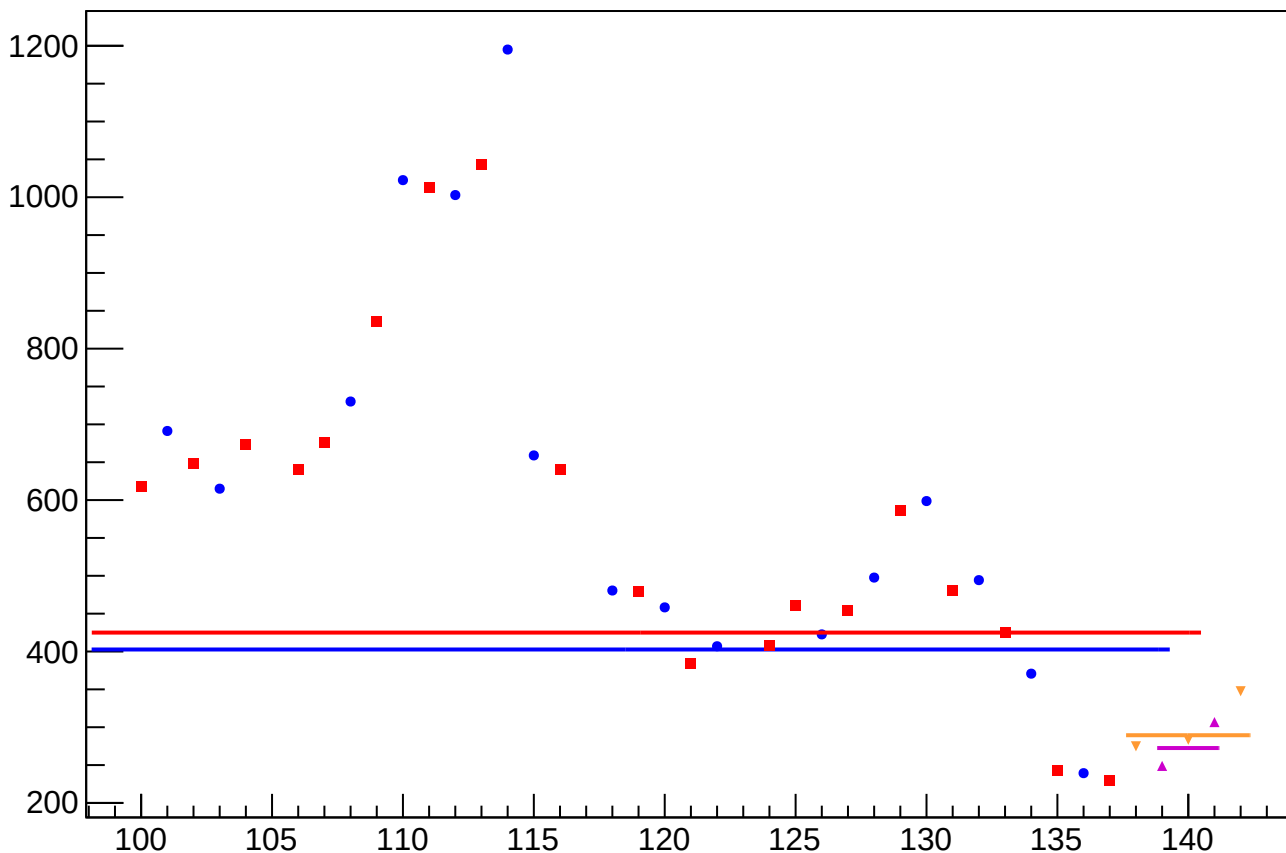
Right: -216.832 ± 118.106 χ^2/NDF : 26.5/34

In: -180.734 ± 128.760 χ^2/NDF : 10.5/17

Out: -85.976 ± 130.534 χ^2/NDF : 22.5/21

All: -134.004 ± 91.668 χ^2/NDF : 33.3/39

asym_sam1_cor_correction_rms vs Slug, Sign Corrected



Right In: 402.658 $\pm$ 0.116 χ^2 /NDF: 2360087.3/15

Left Out: 289.426 $\pm$ 0.143 χ^2 /NDF: 29752.7/2

Right Out: 424.988 $\pm$ 0.121 χ^2 /NDF: 2341027.2/18

Left In: 272.509 $\pm$ 0.147 χ^2 /NDF: 37257.5/1

Left: 281.192 $\pm$ 0.103 χ^2 /NDF: 73775.8/4

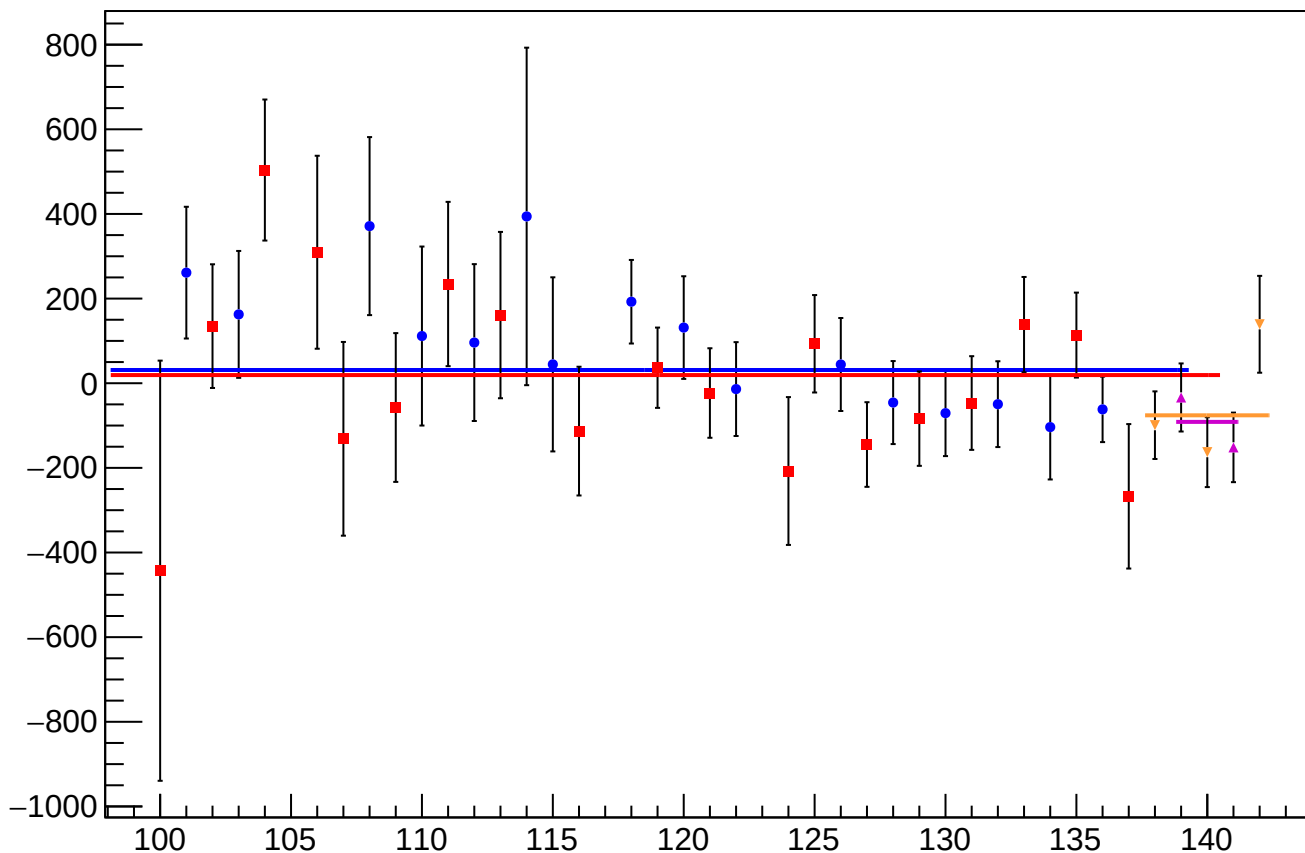
Right: 413.374 $\pm$ 0.084 χ^2 /NDF: 4718958.6/34

In: 352.965 $\pm$ 0.091 χ^2 /NDF: 2879648.1/17

Out: 368.891 $\pm$ 0.092 χ^2 /NDF: 2894013.9/21

All: 360.819 $\pm$ 0.065 χ^2 /NDF: 5788750.9/39

eigen_cor_asym_sam1_mean vs Slug, Sign Corrected



Right In: 31.260+/-30.786 χ^2/NDF : 15.1/15

Left Out: -75.828+/-51.309 χ^2/NDF : 4.7/2

Right Out: 19.282+/-31.060 χ^2/NDF : 25.7/18

Left In: -91.346+/-57.474 χ^2/NDF : 1.1/1

Left: -82.710+/-38.276 χ^2/NDF : 5.8/4

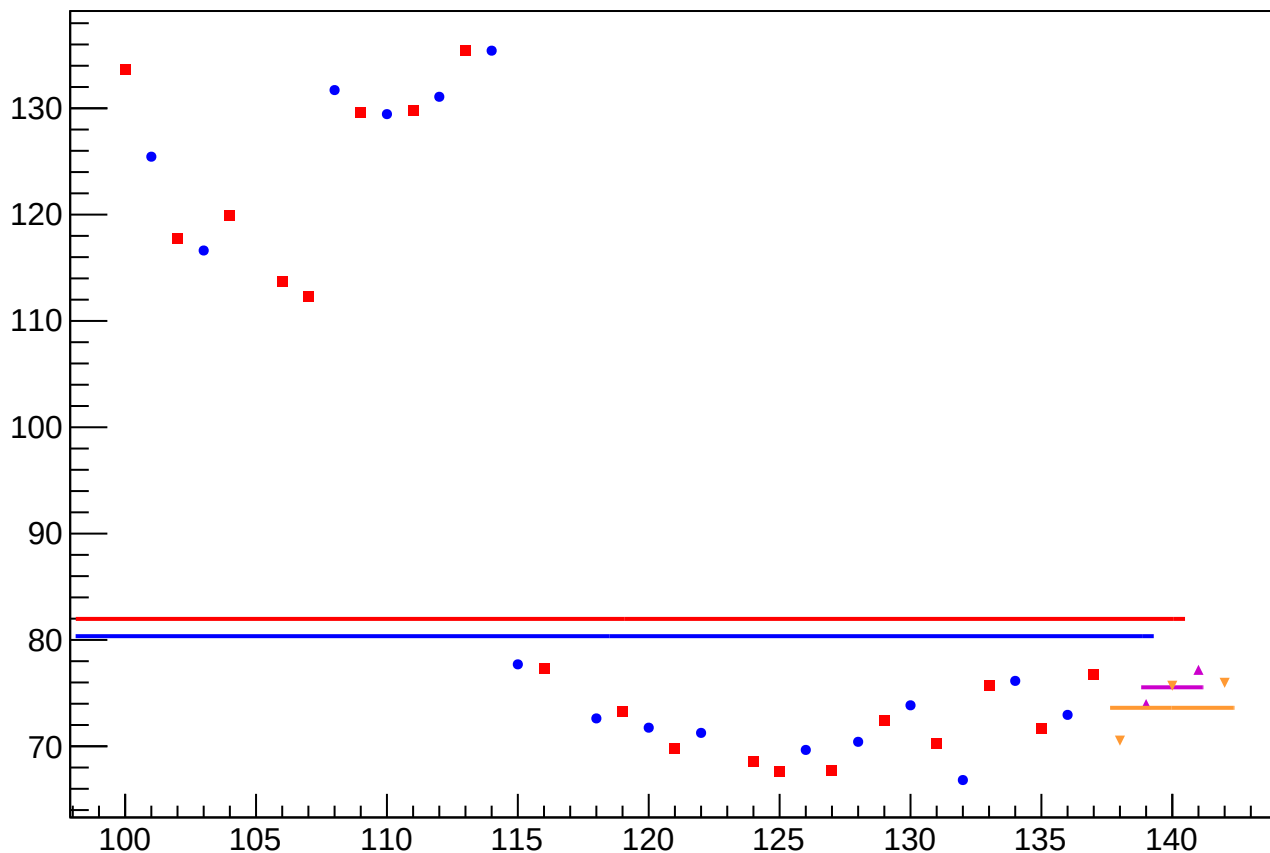
Right: 25.324+/-21.865 χ^2/NDF : 40.9/34

In: 3.924+/-27.138 χ^2/NDF : 19.7/17

Out: -6.224+/-26.570 χ^2/NDF : 33.0/21

All: -1.257+/-18.986 χ^2/NDF : 52.7/39

eigen_cor_asym_sam1_rms vs Slug, Sign Corrected



Right In: 80.354 $\pm$ 0.022 χ^2 /NDF: 840039.7/15

Left Out: 73.616 $\pm$ 0.036 χ^2 /NDF: 5095.2/2

Right Out: 81.978 $\pm$ 0.022 χ^2 /NDF: 930466.5/18

Left In: 75.545 $\pm$ 0.041 χ^2 /NDF: 1568.0/1

Left: 74.472 $\pm$ 0.027 χ^2 /NDF: 7916.4/4

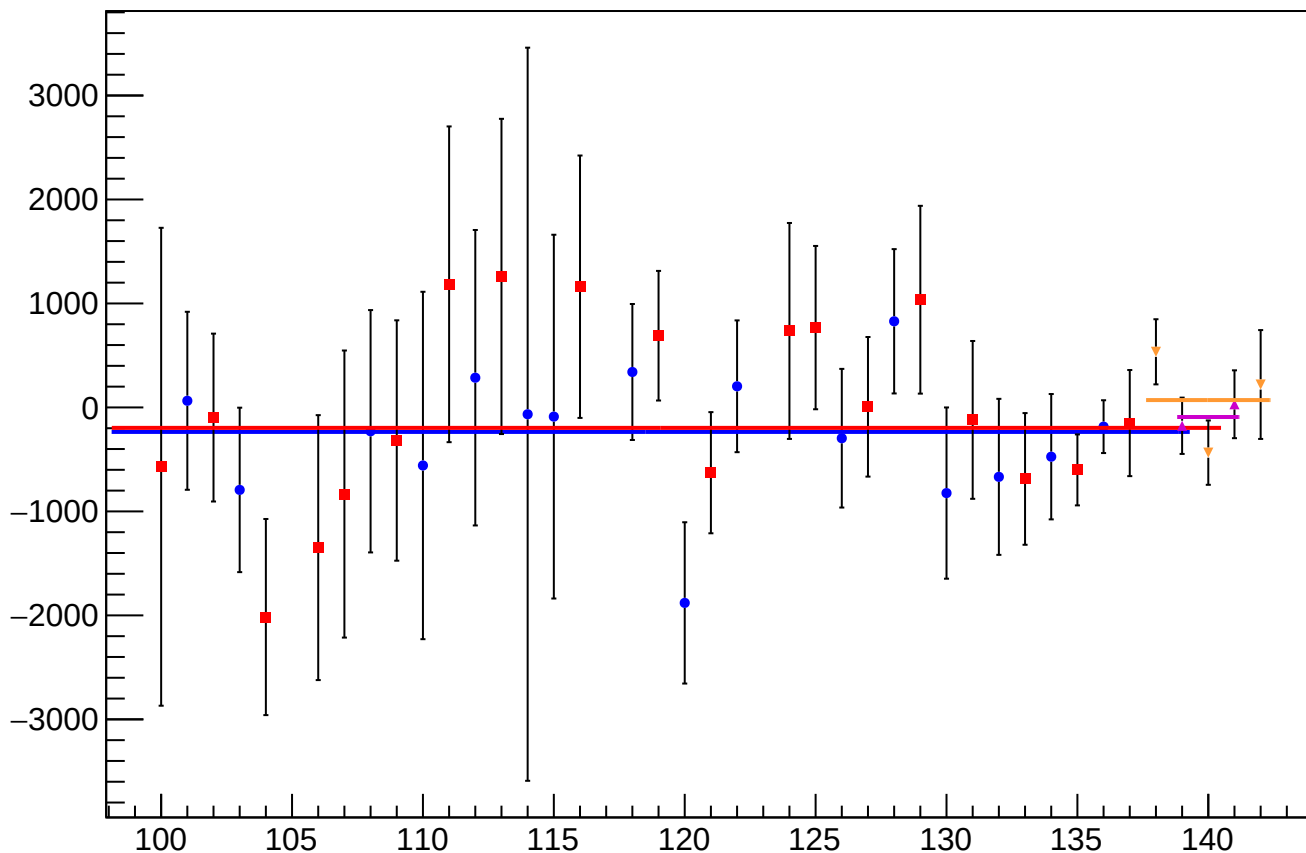
Right: 81.159 $\pm$ 0.015 χ^2 /NDF: 1773264.0/34

In: 79.282 $\pm$ 0.019 χ^2 /NDF: 852487.6/17

Out: 79.736 $\pm$ 0.019 χ^2 /NDF: 974431.5/21

All: 79.513 $\pm$ 0.013 χ^2 /NDF: 1827204.6/39

asym_sam1_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -235.519 ± 163.765 χ^2/NDF : 9.9/15

Left Out: 70.700 ± 202.920 χ^2/NDF : 4.9/2

Right Out: -196.579 ± 170.492 χ^2/NDF : 16.6/18

Left In: -92.033 ± 208.379 χ^2/NDF : 0.2/1

Left: -8.507 ± 145.378 χ^2/NDF : 5.5/4

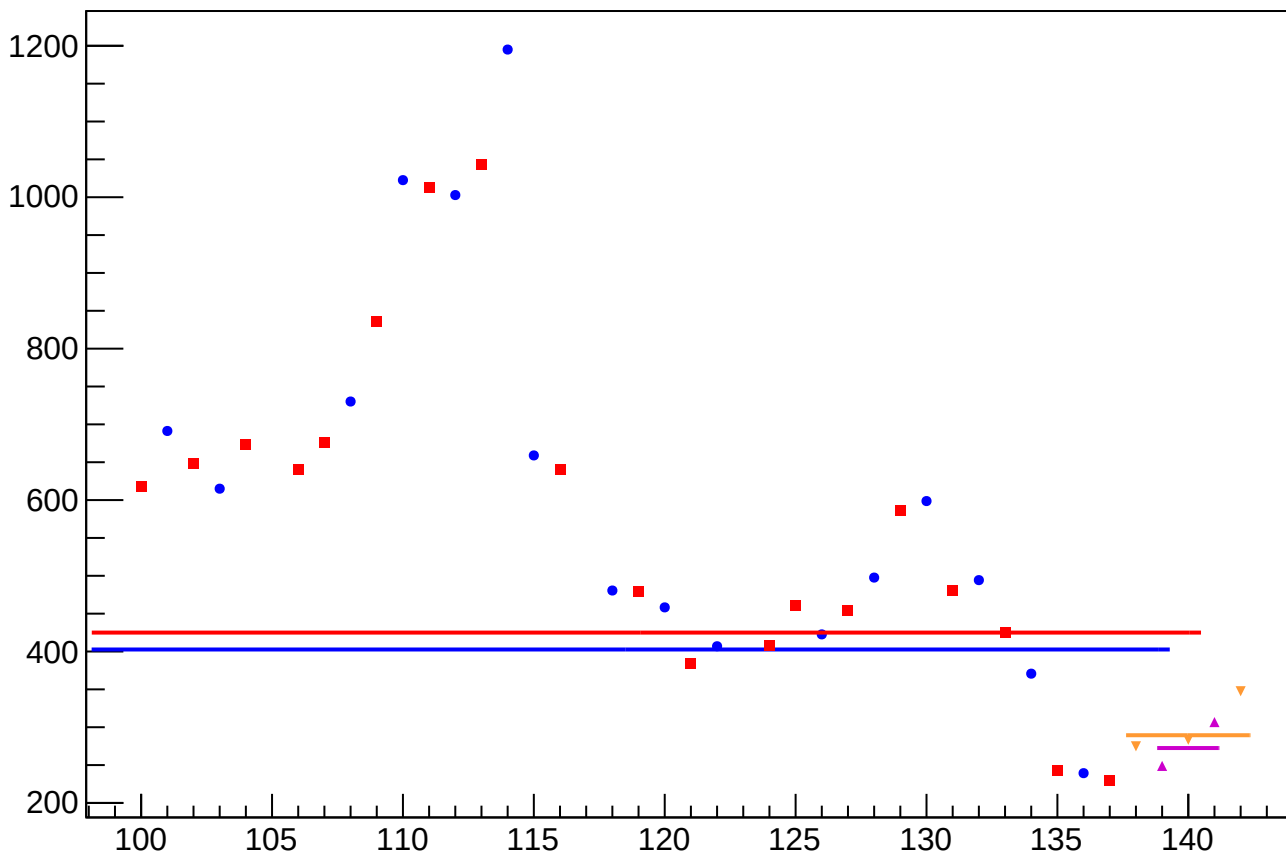
Right: -216.832 ± 118.106 χ^2/NDF : 26.5/34

In: -180.734 ± 128.760 χ^2/NDF : 10.5/17

Out: -85.976 ± 130.534 χ^2/NDF : 22.5/21

All: -134.004 ± 91.668 χ^2/NDF : 33.3/39

asym_sam1_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 402.658 $\pm$ 0.116 χ^2/NDF : 2360087.3/15

Left Out: 289.426 $\pm$ 0.143 χ^2/NDF : 29752.7/2

Right Out: 424.988 $\pm$ 0.121 χ^2/NDF : 2341027.2/18

Left In: 272.509 $\pm$ 0.147 χ^2/NDF : 37257.5/1

Left: 281.192 $\pm$ 0.103 χ^2/NDF : 73775.8/4

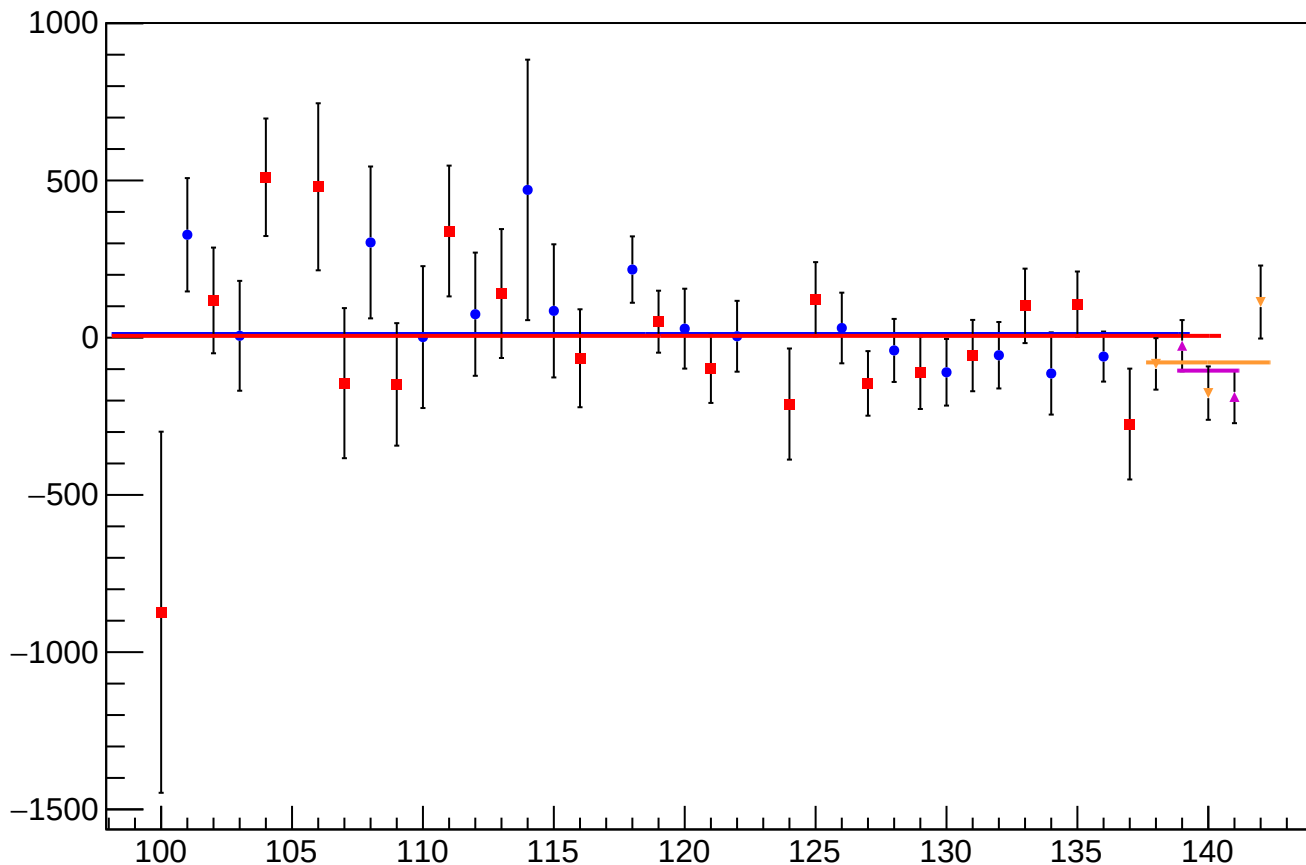
Right: 413.374 $\pm$ 0.084 χ^2/NDF : 4718958.6/34

In: 352.965 $\pm$ 0.091 χ^2/NDF : 2879648.1/17

Out: 368.891 $\pm$ 0.092 χ^2/NDF : 2894013.9/21

All: 360.819 $\pm$ 0.065 χ^2/NDF : 5788750.9/39

dit_asym_sam1_mean vs Slug, Sign Corrected



Right In: 11.651 ± 32.297 $\chi^2/\text{NDF}: 13.5/15$

Left Out: -78.625 ± 52.545 $\chi^2/\text{NDF}: 4.1/2$

Right Out: 5.817 ± 32.444 $\chi^2/\text{NDF}: 28.8/18$

Left In: -104.722 ± 58.327 $\chi^2/\text{NDF}: 1.9/1$

Left: -90.316 ± 39.040 $\chi^2/\text{NDF}: 6.1/4$

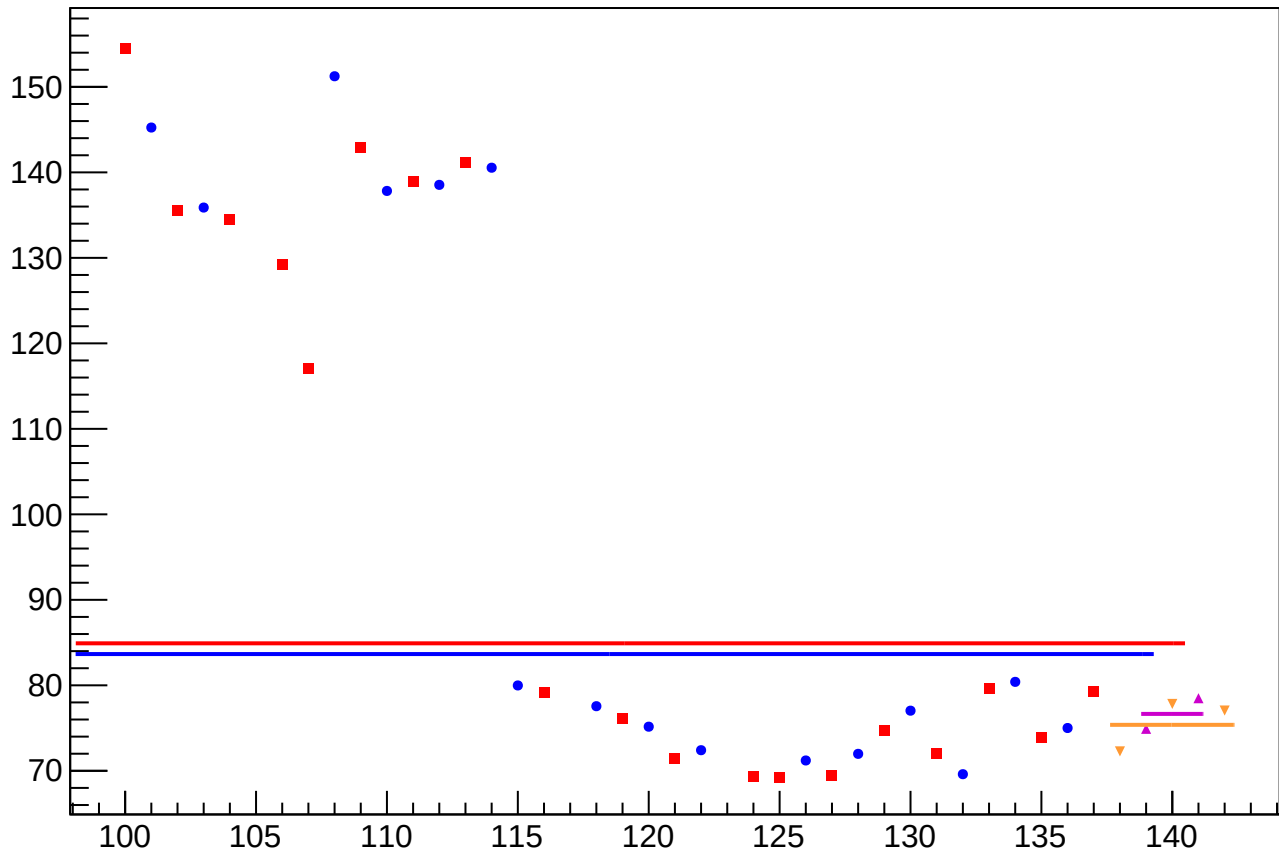
Right: 8.747 ± 22.889 $\chi^2/\text{NDF}: 42.3/34$

In: -15.657 ± 28.255 $\chi^2/\text{NDF}: 18.5/17$

Out: -17.490 ± 27.605 $\chi^2/\text{NDF}: 34.7/21$

All: -16.595 ± 19.746 $\chi^2/\text{NDF}: 53.2/39$

dit_asym_sam1_rms vs Slug, Sign Corrected



Right In: 83.657 $\pm$ 0.023 χ^2 /NDF: 1034794.6/15

Left Out: 75.378 $\pm$ 0.037 χ^2 /NDF: 4954.3/2

Right Out: 84.913 $\pm$ 0.023 χ^2 /NDF: 1121669.5/18

Left In: 76.657 $\pm$ 0.041 χ^2 /NDF: 1881.0/1

Left: 75.951 $\pm$ 0.028 χ^2 /NDF: 7366.1/4

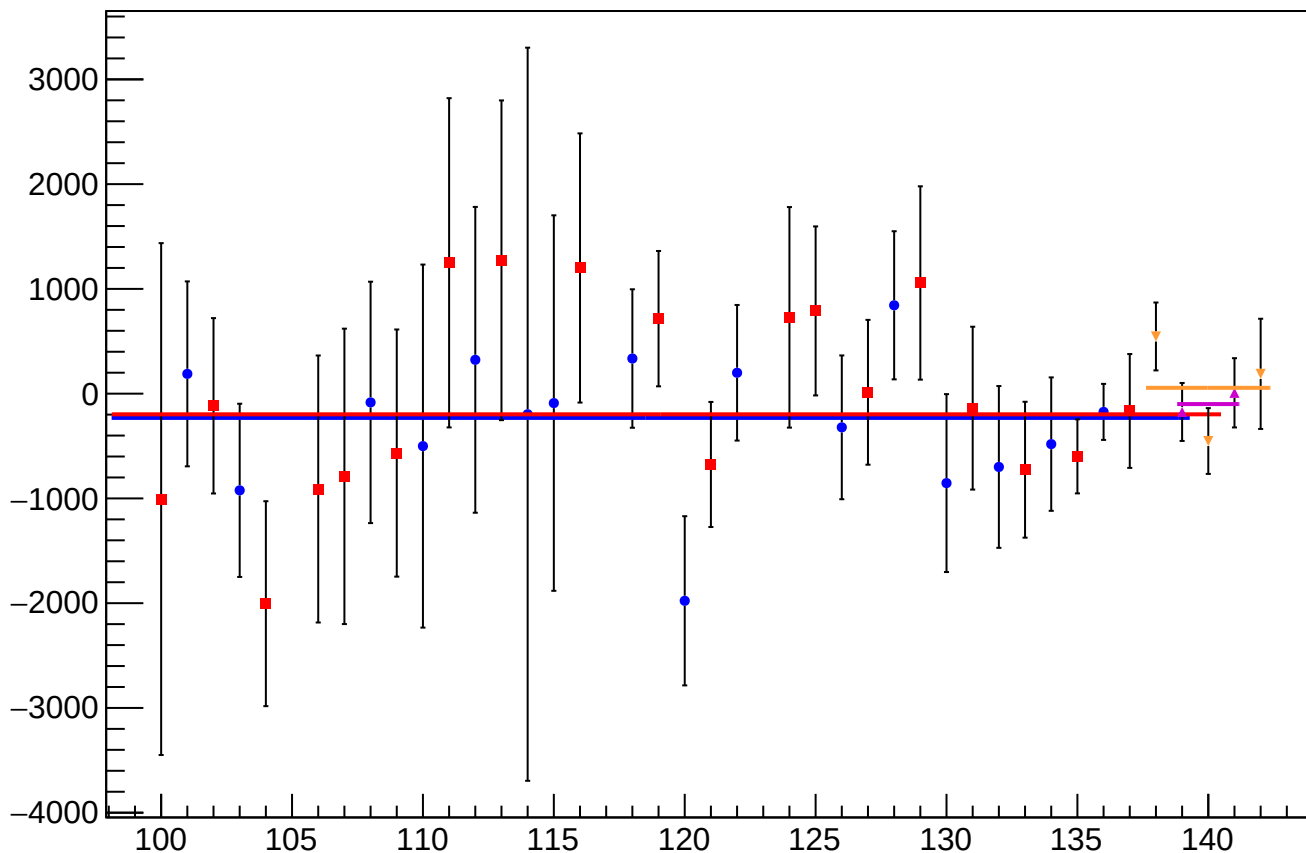
Right: 84.282 $\pm$ 0.016 χ^2 /NDF: 2157969.4/34

In: 82.014 $\pm$ 0.020 χ^2 /NDF: 1058724.2/17

Out: 82.281 $\pm$ 0.020 χ^2 /NDF: 1174306.9/21

All: 82.151 $\pm$ 0.014 χ^2 /NDF: 2233122.3/39

asym_sam1_dit_correction_mean vs Slug, Sign Corrected



Right In: -231.407 ± 170.133 χ^2/NDF : 10.4/15

Left Out: 55.758 ± 207.239 χ^2/NDF : 5.0/2

Right Out: -197.206 ± 176.091 χ^2/NDF : 15.9/18

Left In: -99.424 ± 212.166 χ^2/NDF : 0.2/1

Left: -20.010 ± 148.251 χ^2/NDF : 5.4/4

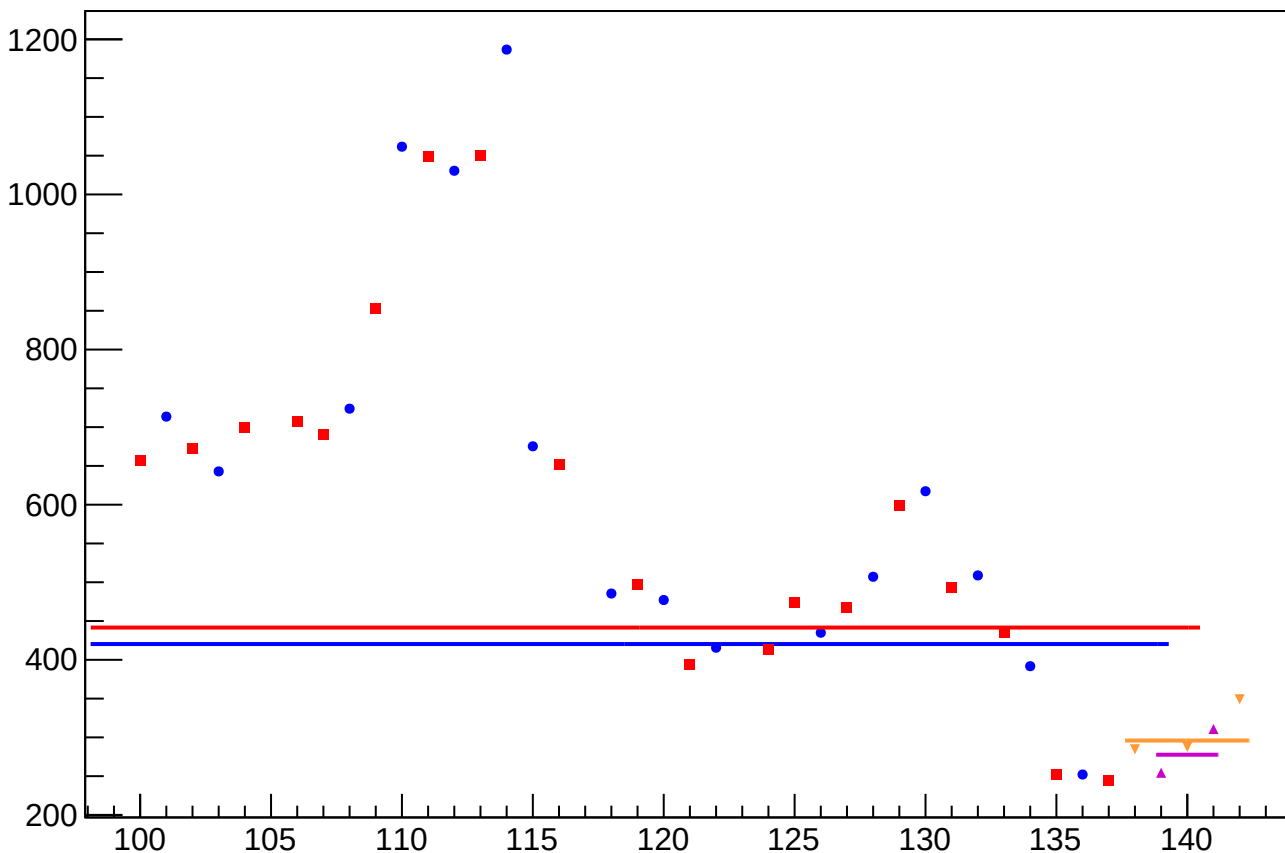
Right: -214.895 ± 122.354 χ^2/NDF : 26.3/34

In: -179.753 ± 132.729 χ^2/NDF : 10.8/17

Out: -91.144 ± 134.190 χ^2/NDF : 21.7/21

All: -135.934 ± 94.366 χ^2/NDF : 32.8/39

asym_sam1_dit_correction_rms vs Slug, Sign Corrected



Right In: 420.329+/-0.120 χ^2/NDF : 2254610.0/15

Left Out: 295.937+/-0.147 χ^2/NDF : 24300.6/2

Right Out: 441.598+/-0.125 χ^2/NDF : 2307588.5/18

Left In: 277.637+/-0.150 χ^2/NDF : 34260.6/1

Left: 287.002+/-0.105 χ^2/NDF : 66175.8/4

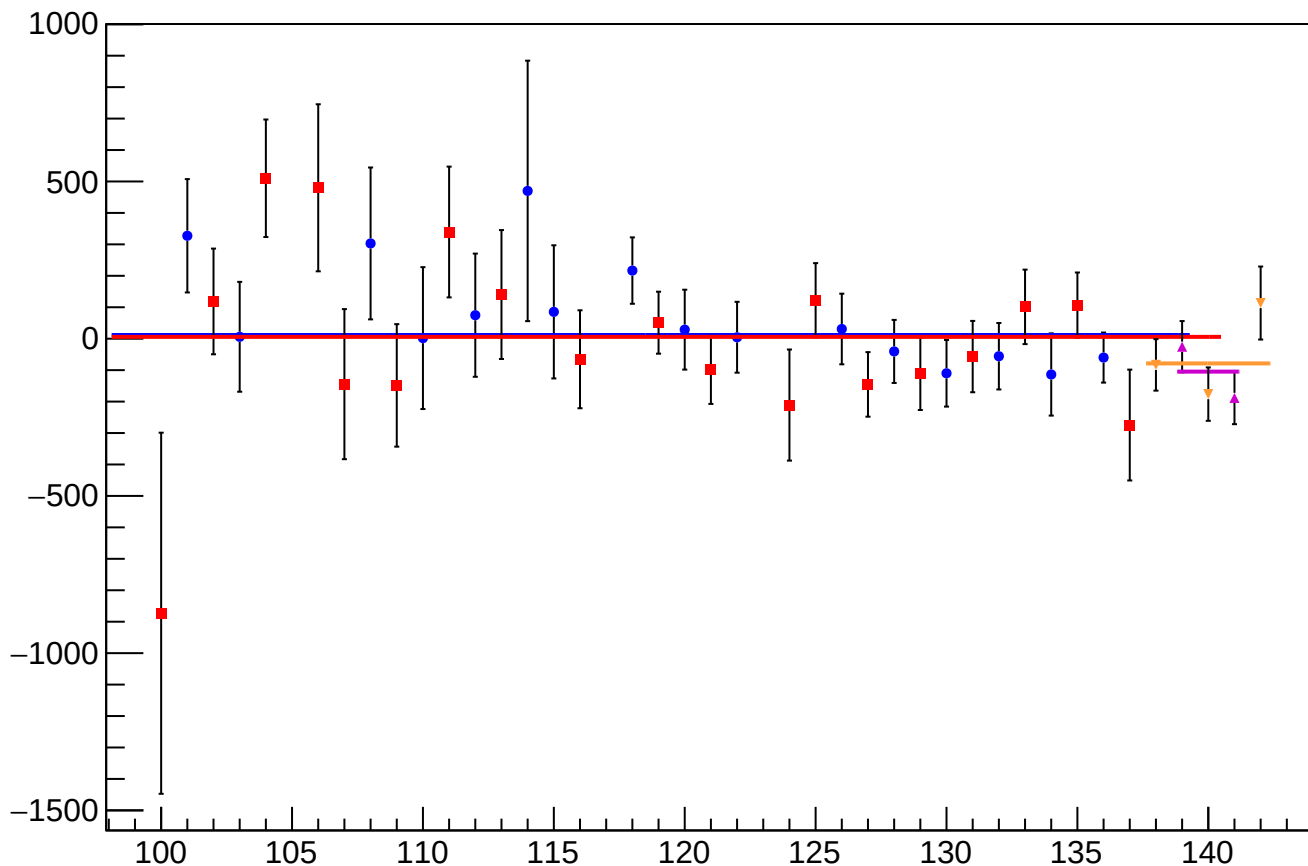
Right: 430.598+/-0.087 χ^2/NDF : 4577288.4/34

In: 364.485+/-0.094 χ^2/NDF : 2839469.0/17

Out: 380.525+/-0.095 χ^2/NDF : 2905661.8/21

All: 372.417+/-0.067 χ^2/NDF : 5759576.3/39

eigen_dit_asym_sam1_mean vs Slug, Sign Corrected



Right In: 11.652 ± 32.297 $\chi^2/\text{NDF}: 13.5/15$

Left Out: -78.626 ± 52.545 $\chi^2/\text{NDF}: 4.1/2$

Right Out: 5.816 ± 32.444 $\chi^2/\text{NDF}: 28.8/18$

Left In: -104.722 ± 58.327 $\chi^2/\text{NDF}: 1.9/1$

Left: -90.316 ± 39.040 $\chi^2/\text{NDF}: 6.1/4$

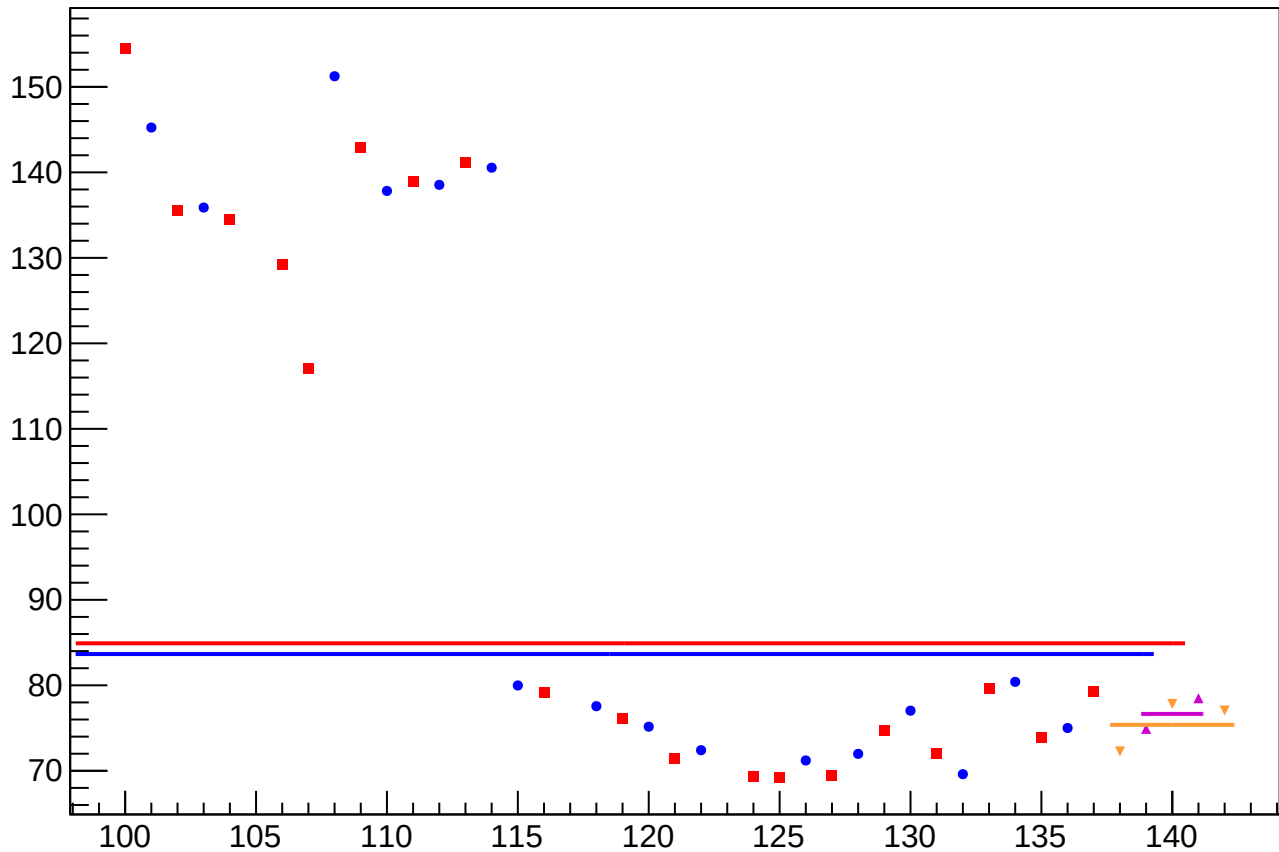
Right: 8.747 ± 22.889 $\chi^2/\text{NDF}: 42.3/34$

In: -15.656 ± 28.255 $\chi^2/\text{NDF}: 18.5/17$

Out: -17.491 ± 27.605 $\chi^2/\text{NDF}: 34.7/21$

All: -16.595 ± 19.746 $\chi^2/\text{NDF}: 53.2/39$

eigen_dit_asym_sam1_rms vs Slug, Sign Corrected



Right In: 83.657 $\pm$ 0.023 χ^2 /NDF: 1034794.1/15

Left Out: 75.378 $\pm$ 0.037 χ^2 /NDF: 4954.3/2

Right Out: 84.913 $\pm$ 0.023 χ^2 /NDF: 1121668.5/18

Left In: 76.657 $\pm$ 0.041 χ^2 /NDF: 1881.1/1

Left: 75.951 $\pm$ 0.028 χ^2 /NDF: 7366.2/4

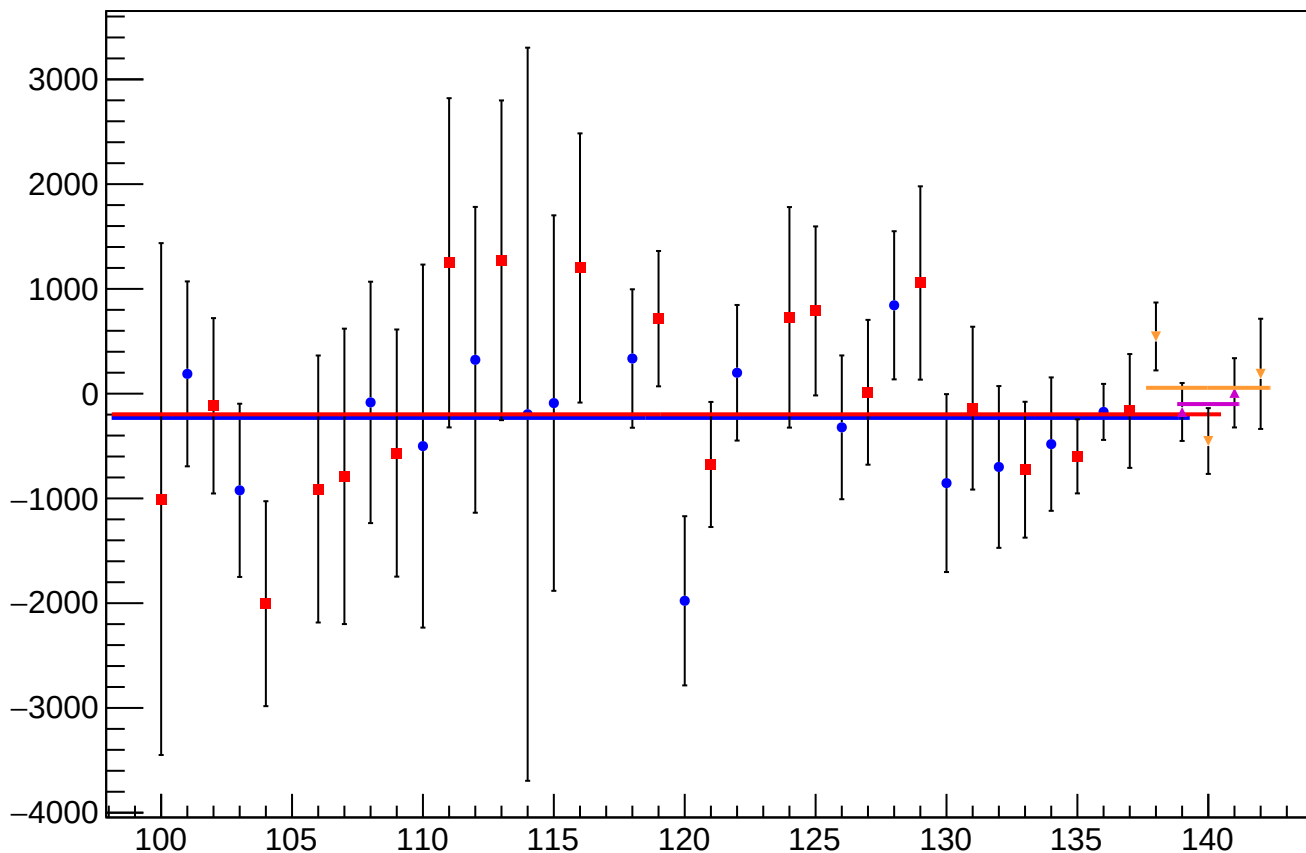
Right: 84.282 $\pm$ 0.016 χ^2 /NDF: 2157967.8/34

In: 82.014 $\pm$ 0.020 χ^2 /NDF: 1058723.3/17

Out: 82.281 $\pm$ 0.020 χ^2 /NDF: 1174305.2/21

All: 82.151 $\pm$ 0.014 χ^2 /NDF: 2233119.7/39

asym_sam1_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -231.405 ± 170.132 χ^2/NDF : 10.4/15

Left Out: 55.757 ± 207.238 χ^2/NDF : 5.0/2

Right Out: -197.207 ± 176.091 χ^2/NDF : 15.9/18

Left In: -99.424 ± 212.166 χ^2/NDF : 0.2/1

Left: -20.010 ± 148.251 χ^2/NDF : 5.4/4

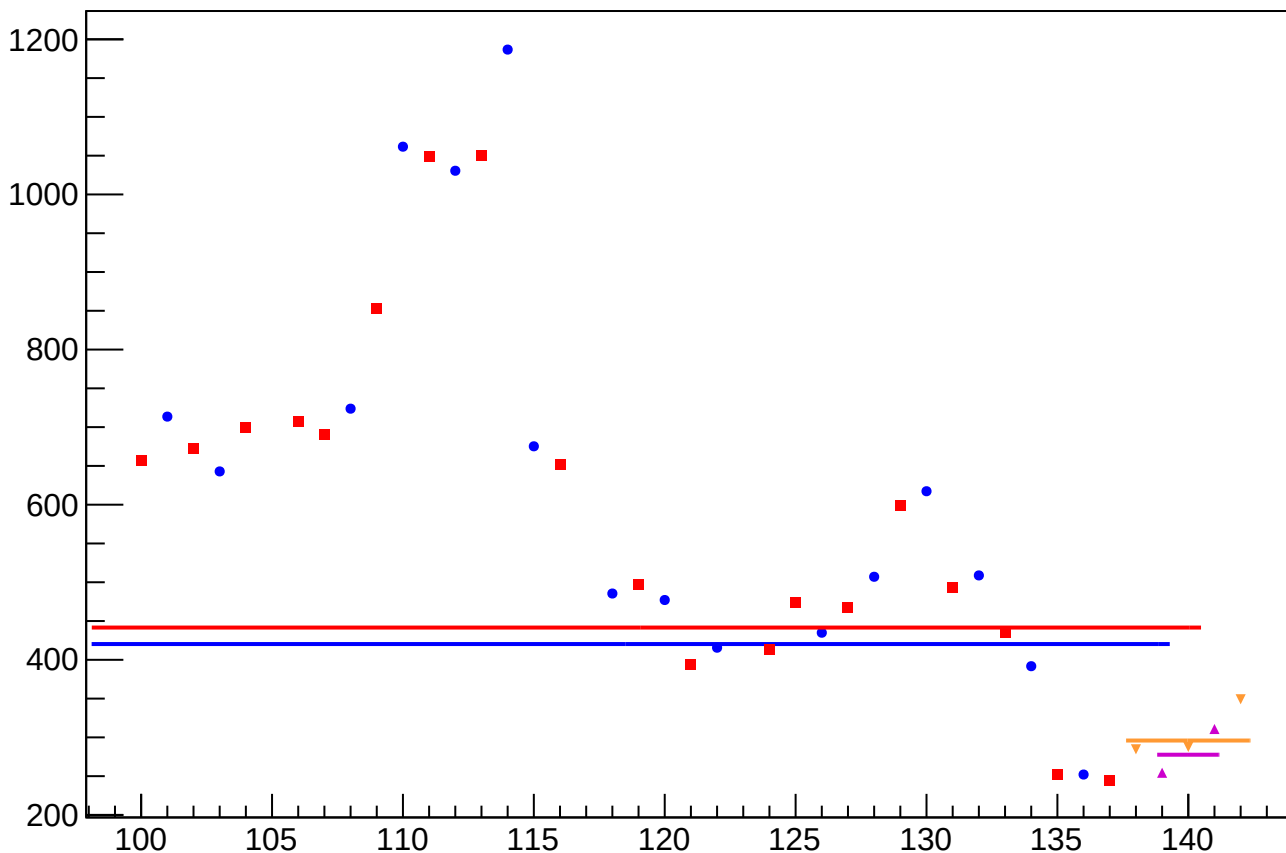
Right: -214.894 ± 122.354 χ^2/NDF : 26.3/34

In: -179.752 ± 132.729 χ^2/NDF : 10.8/17

Out: -91.145 ± 134.190 χ^2/NDF : 21.7/21

All: -135.933 ± 94.366 χ^2/NDF : 32.8/39

asym_sam1_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 420.329+/-0.120 χ^2/NDF : 2254614.9/15

Left Out: 295.937+/-0.147 χ^2/NDF : 24300.2/2

Right Out: 441.597+/-0.125 χ^2/NDF : 2307595.1/18

Left In: 277.637+/-0.150 χ^2/NDF : 34260.8/1

Left: 287.002+/-0.105 χ^2/NDF : 66175.6/4

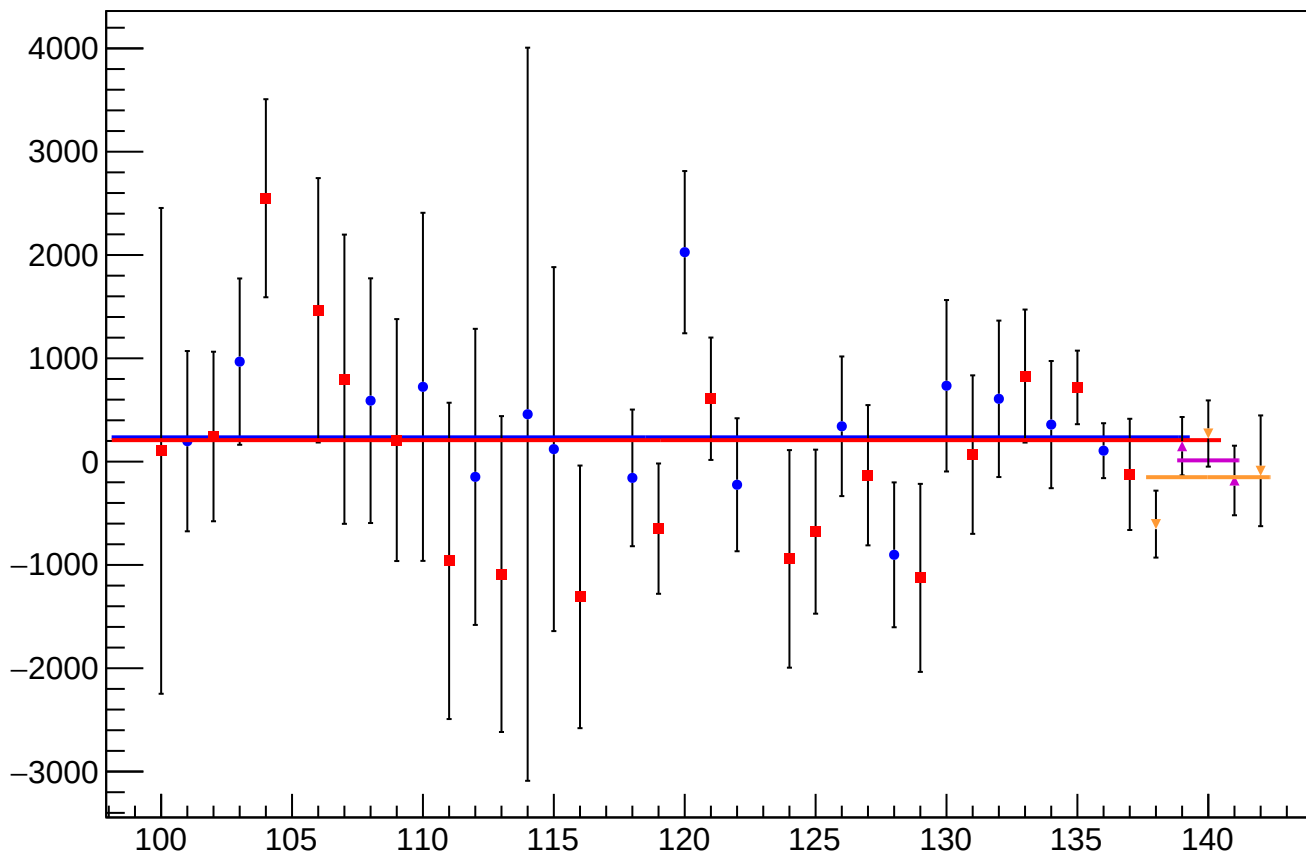
Right: 430.597+/-0.087 χ^2/NDF : 4577299.7/34

In: 364.484+/-0.094 χ^2/NDF : 2839472.1/17

Out: 380.525+/-0.095 χ^2/NDF : 2905664.9/21

All: 372.417+/-0.067 χ^2/NDF : 5759582.4/39

asym_sam1_mean vs Slug, Sign Corrected



Right In: 235.054 $\pm$ 168.199 χ^2 /NDF: 10.7/15

Left Out: -150.572 $\pm$ 209.700 χ^2 /NDF:3.7/2

Right Out: 207.936 $\pm$ 174.716 χ^2 /NDF: 20.4/18

Left In: 12.190 $\pm$ 216.464 χ^2 /NDF:0.6/1

Left: -71.773 $\pm$ 150.615 χ^2 /NDF: 4.6/4

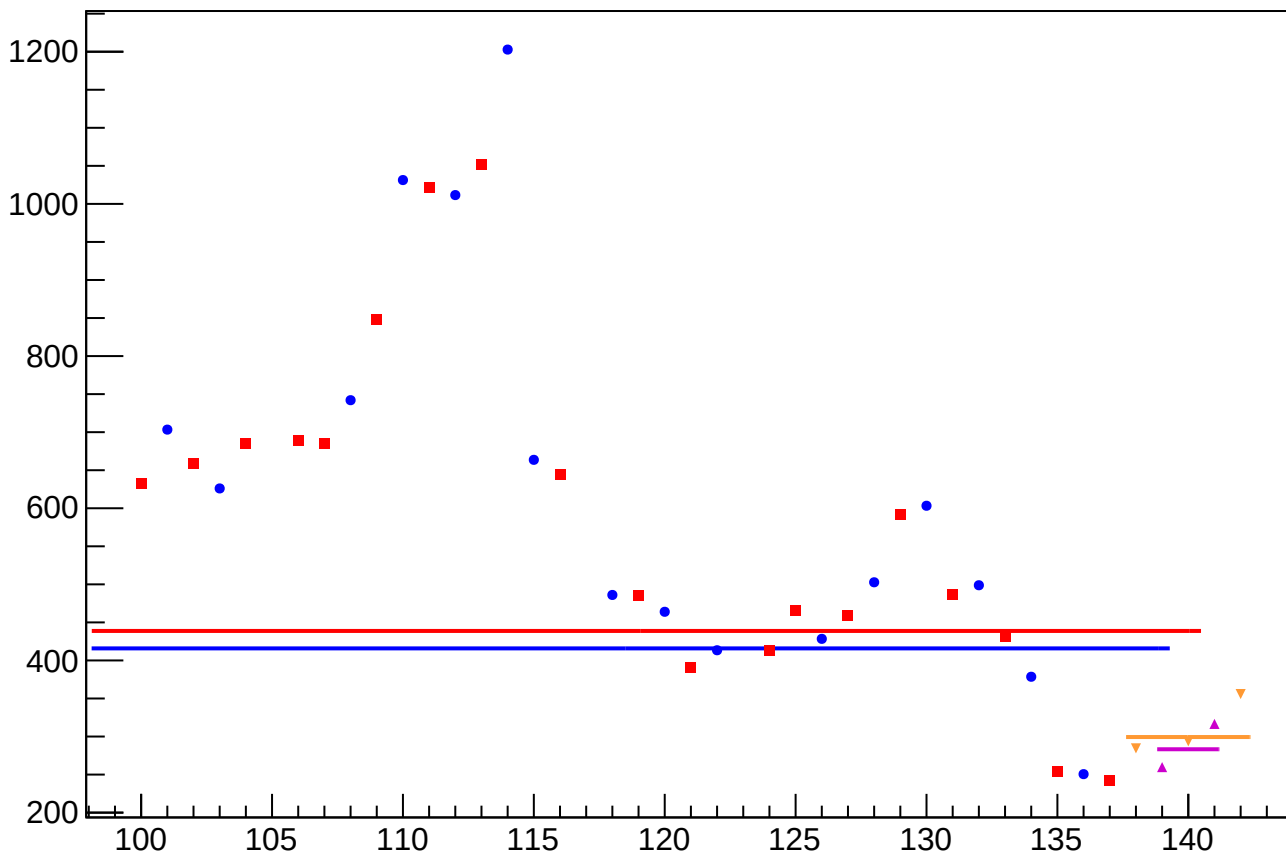
Right: 222.010 $\pm$ 121.173 χ^2 /NDF: 31.1/34

In: 151.152 $\pm$ 132.816 χ^2 /NDF:11.9/17

Out: 61.041 $\pm$ 134.231 χ^2 /NDF:25.8/21

All: 106.574 $\pm$ 94.412 χ^2 /NDF: 38.0/39

asym_sam1_rms vs Slug, Sign Corrected



Right In: 415.840 +/- 0.119 χ^2/NDF : 2223949.6/15

Left Out: 299.340 +/- 0.148 χ^2/NDF : 27055.0/2

Right Out: 438.773 +/- 0.124 χ^2/NDF : 2234776.6/18

Left In: 283.283 +/- 0.153 χ^2/NDF : 33376.5/1

Left: 291.567 +/- 0.107 χ^2/NDF : 66108.5/4

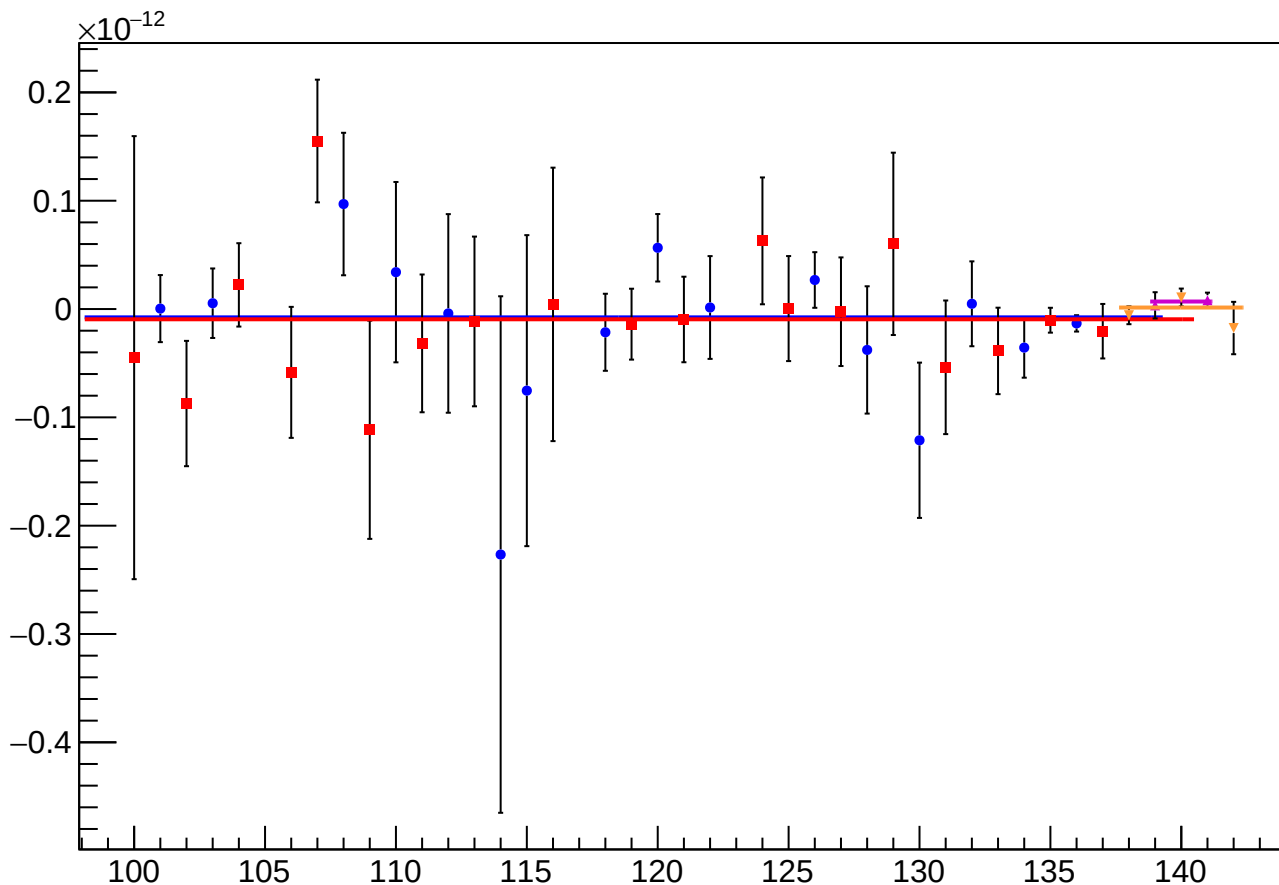
Right: 426.871 +/- 0.086 χ^2/NDF : 4476610.3/34

In: 365.936 +/- 0.094 χ^2/NDF : 2724970.6/17

Out: 381.642 +/- 0.095 χ^2/NDF : 2783753.0/21

All: 373.706 +/- 0.067 χ^2/NDF : 5522558.8/39

asym_sam1_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 14.8/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 2.6/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 16.3/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.1/1

Left: 0.000 ± 0.000 χ^2/NDF : 3.2/4

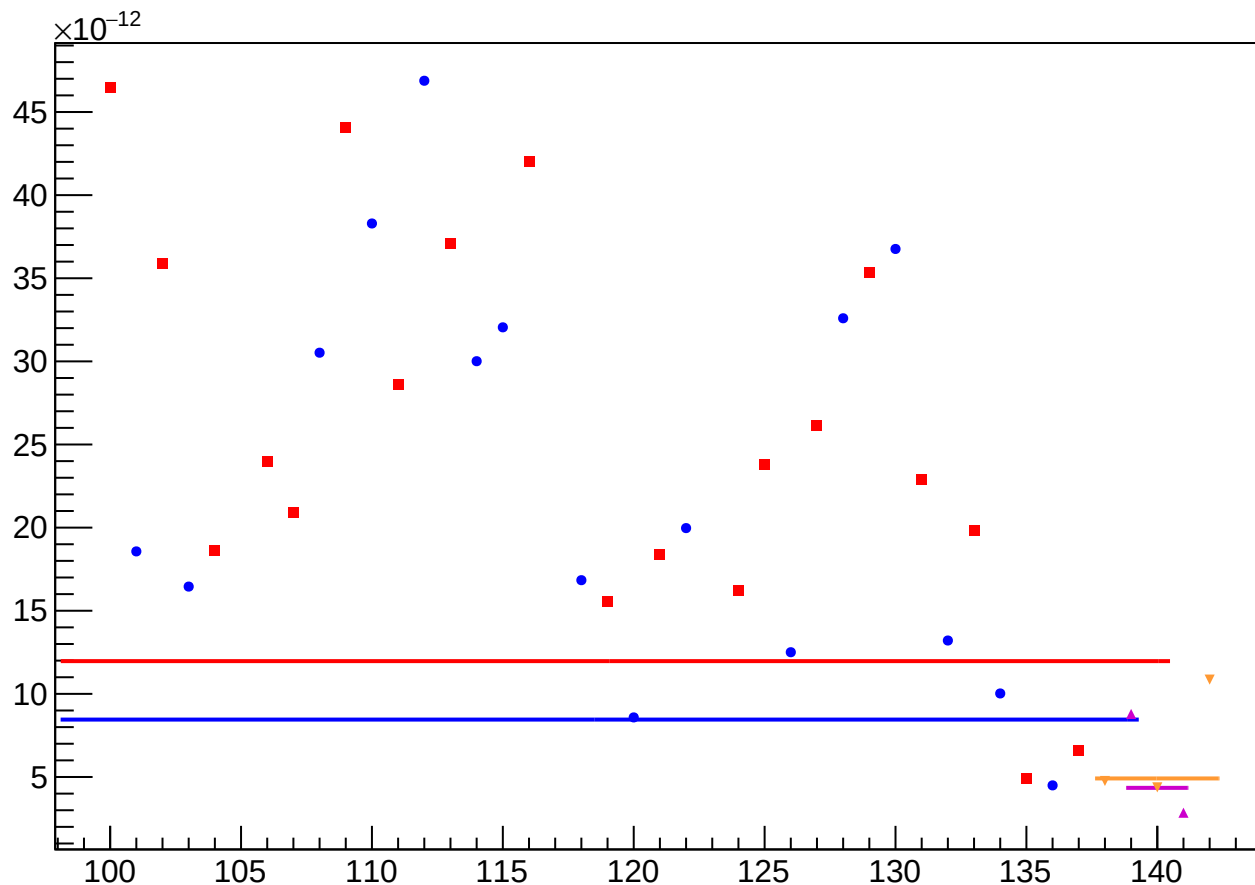
Right: -0.000 ± 0.000 χ^2/NDF : 31.1/34

In: -0.000 ± 0.000 χ^2/NDF : 17.7/17

Out: -0.000 ± 0.000 χ^2/NDF : 20.1/21

All: -0.000 ± 0.000 χ^2/NDF : 38.0/39

asym_sam1_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2756090.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :130114.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2760154.9/18

Left In: 0.000+/-0.000 χ^2/NDF :360168.0/1

Left: 0.000+/-0.000 χ^2/NDF : 499573.8/4

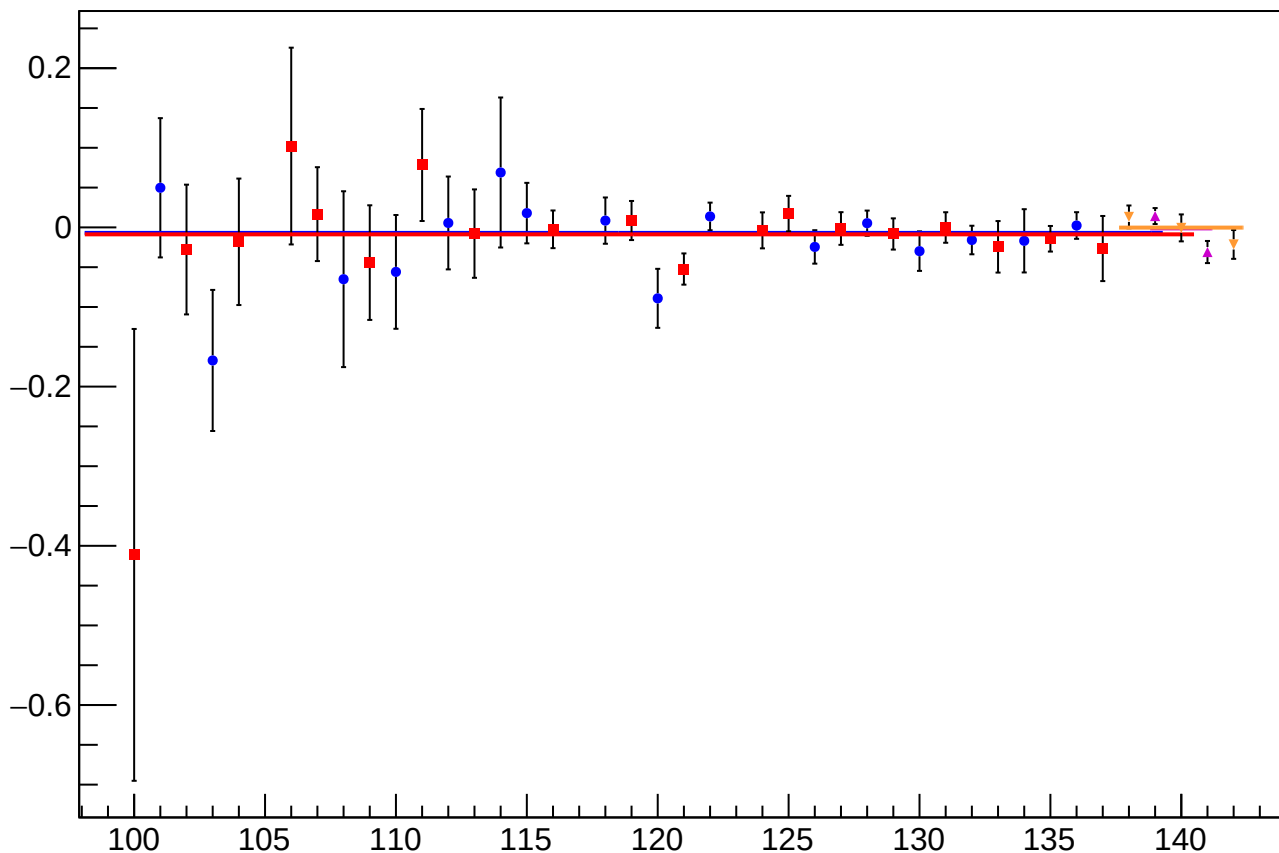
Right: 0.000+/-0.000 χ^2/NDF : 5753139.7/34

In: 0.000+/-0.000 χ^2/NDF :3566810.3/17

Out: 0.000+/-0.000 χ^2/NDF :3901076.1/21

All: 0.000+/-0.000 χ^2/NDF : 7502784.2/39

asym_sam1_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.007 χ^2/NDF : 14.9/15

Left Out: -0.000 ± 0.009 χ^2/NDF : 2.3/2

Right Out: -0.009 ± 0.006 χ^2/NDF : 12.6/18

Left In: -0.001 ± 0.008 χ^2/NDF : 6.9/1

Left: -0.001 ± 0.006 χ^2/NDF : 9.2/4

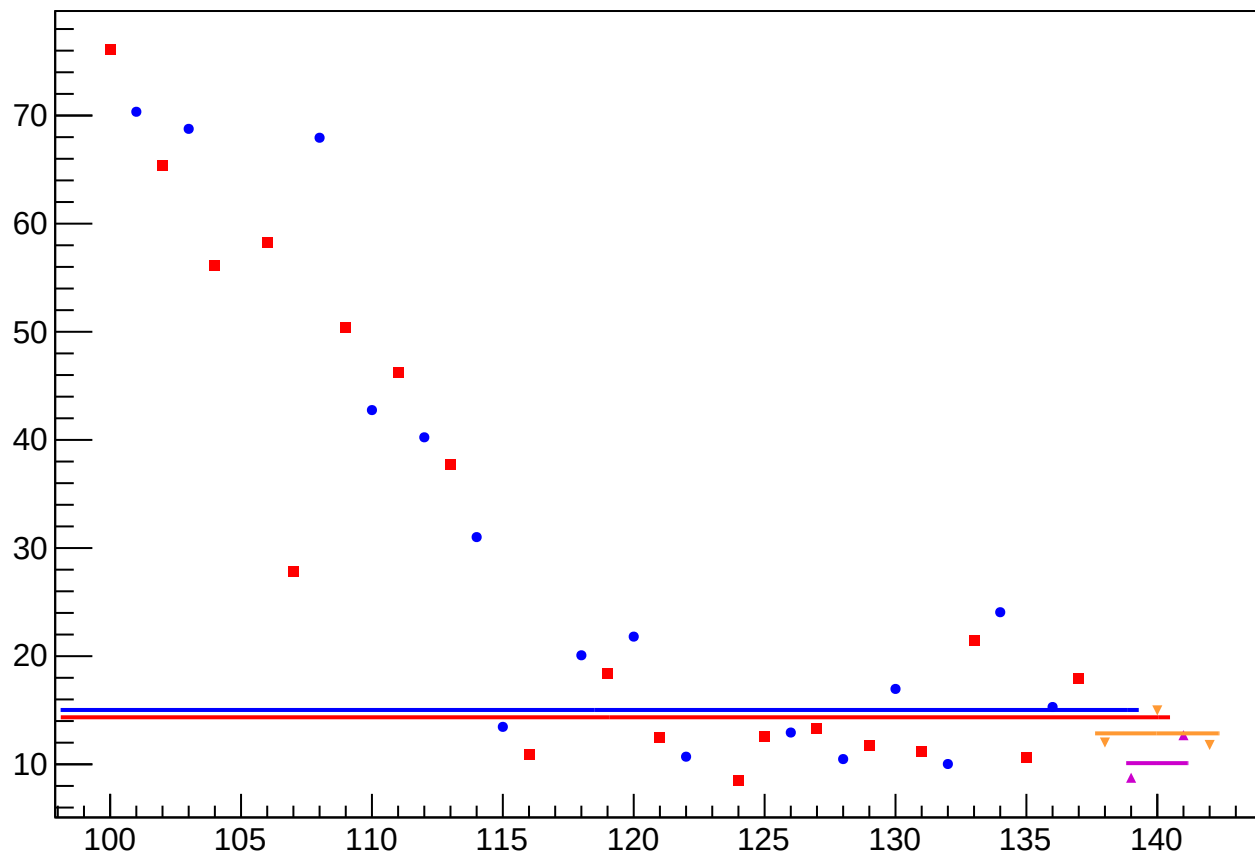
Right: -0.008 ± 0.005 χ^2/NDF : 27.6/34

In: -0.005 ± 0.005 χ^2/NDF : 22.2/17

Out: -0.006 ± 0.005 χ^2/NDF : 15.5/21

All: -0.005 ± 0.004 χ^2/NDF : 37.7/39

asym_sam1_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 15.026 $\pm$ 0.005 χ^2 /NDF: 3438260.9/15

Left Out: 12.860 $\pm$ 0.007 χ^2 /NDF: 45543.8/2

Right Out: 14.348 $\pm$ 0.005 χ^2 /NDF: 3629014.9/18

Left In: 10.108 $\pm$ 0.006 χ^2 /NDF: 105359.6/1

Left: 11.293 $\pm$ 0.004 χ^2 /NDF: 249450.4/4

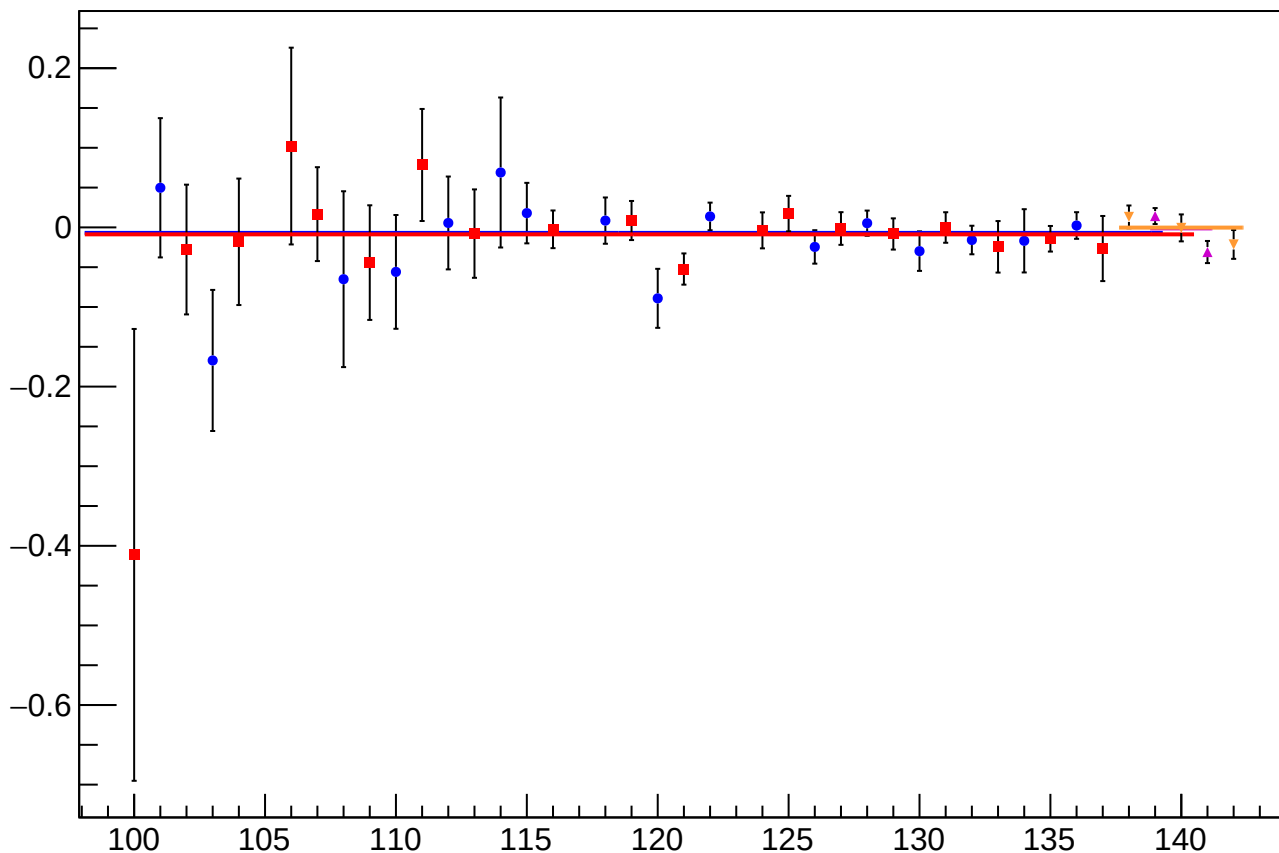
Right: 14.669 $\pm$ 0.003 χ^2 /NDF: 7077933.0/34

In: 13.027 $\pm$ 0.004 χ^2 /NDF: 3977225.8/17

Out: 13.875 $\pm$ 0.004 χ^2 /NDF: 3709062.0/21

All: 13.444 $\pm$ 0.003 χ^2 /NDF: 7712569.3/39

asym_sam1_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.007 $\chi^2/\text{NDF}: 14.9/15$

Left Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 2.3/2$

Right Out: -0.009 ± 0.006 $\chi^2/\text{NDF}: 12.6/18$

Left In: -0.001 ± 0.008 $\chi^2/\text{NDF}: 6.9/1$

Left: -0.001 ± 0.006 $\chi^2/\text{NDF}: 9.2/4$

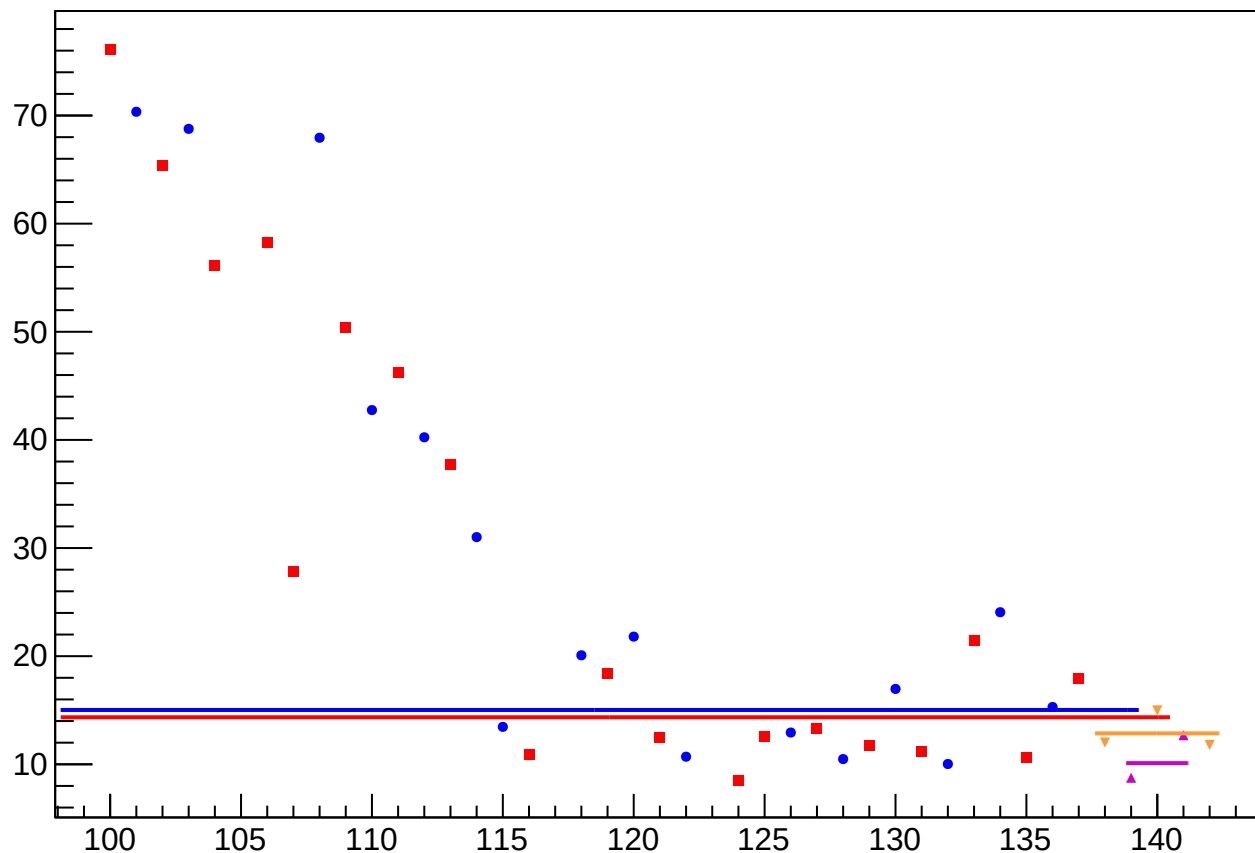
Right: -0.008 ± 0.005 $\chi^2/\text{NDF}: 27.6/34$

In: -0.005 ± 0.005 $\chi^2/\text{NDF}: 22.2/17$

Out: -0.006 ± 0.005 $\chi^2/\text{NDF}: 15.5/21$

All: -0.005 ± 0.004 $\chi^2/\text{NDF}: 37.7/39$

asym_sam1_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 15.026 $\pm$ 0.005 χ^2 /NDF: 3438260.9/15

Left Out: 12.860 $\pm$ 0.007 χ^2 /NDF: 45543.8/2

Right Out: 14.348 $\pm$ 0.005 χ^2 /NDF: 3629014.9/18

Left In: 10.108 $\pm$ 0.006 χ^2 /NDF: 105359.6/1

Left: 11.293 $\pm$ 0.004 χ^2 /NDF: 249450.4/4

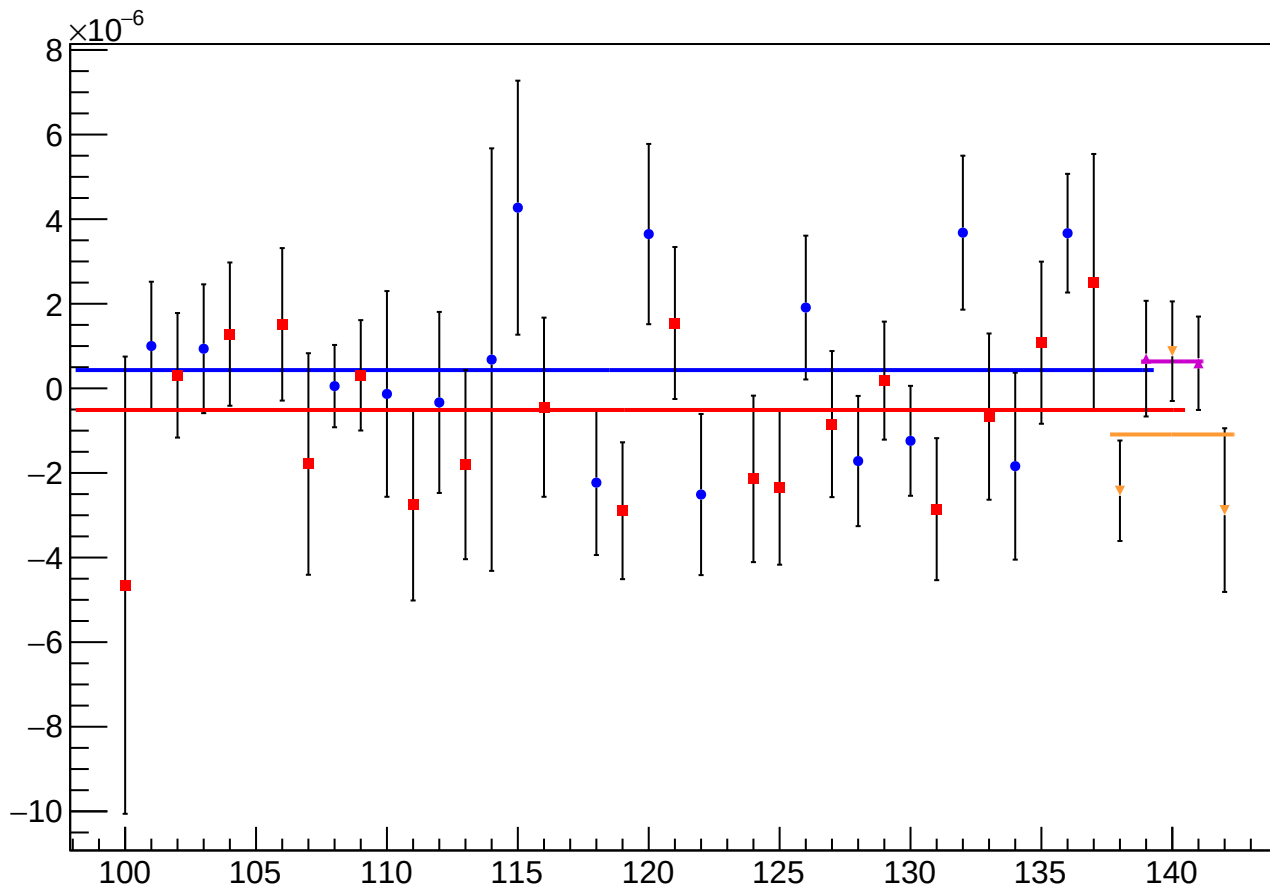
Right: 14.669 $\pm$ 0.003 χ^2 /NDF: 7077933.0/34

In: 13.027 $\pm$ 0.004 χ^2 /NDF: 3977225.8/17

Out: 13.875 $\pm$ 0.004 χ^2 /NDF: 3709062.0/21

All: 13.444 $\pm$ 0.003 χ^2 /NDF: 7712569.3/39

asym_sam1_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.2/15

Left Out: -0.000+/-0.000 χ^2/NDF : 4.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 14.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 7.2/4

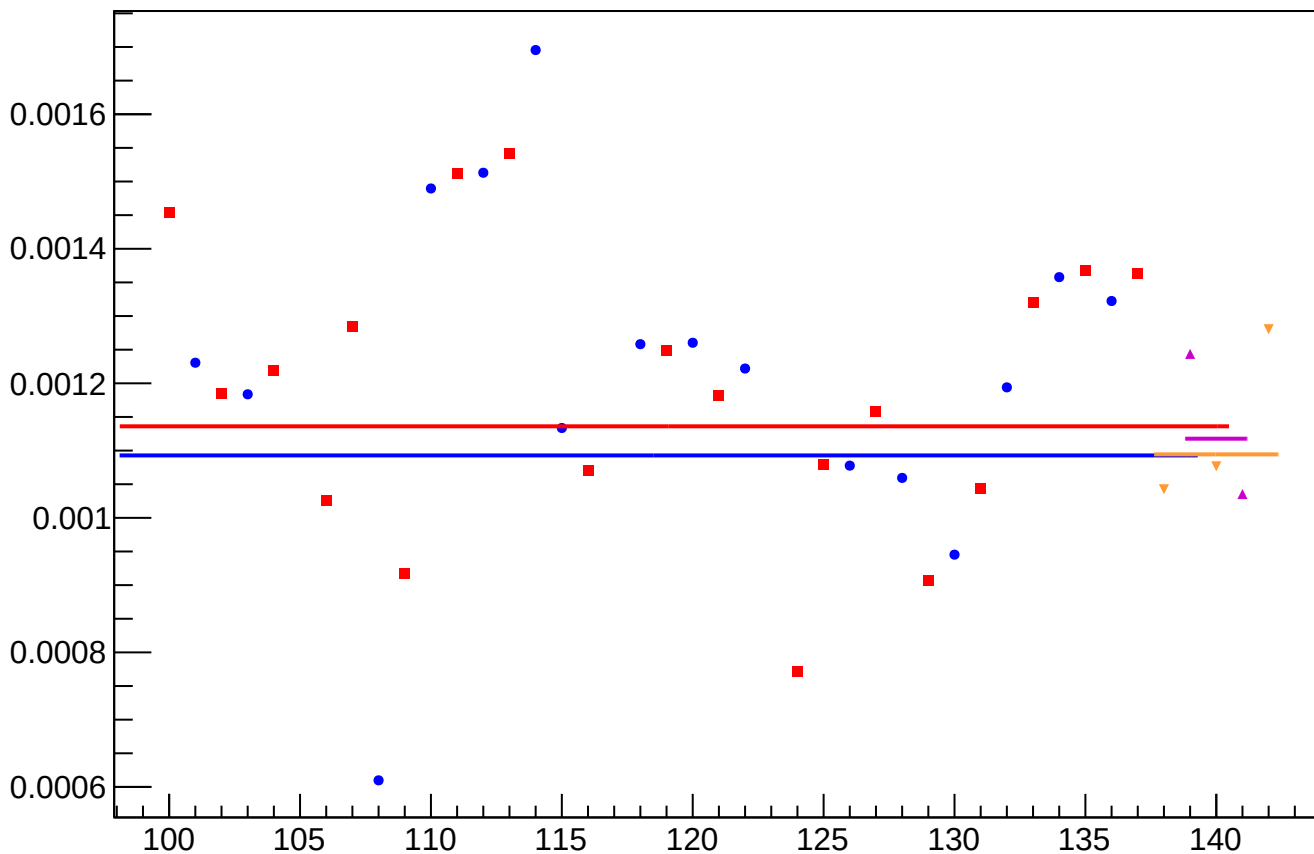
Right: -0.000+/-0.000 χ^2/NDF : 40.0/34

In: 0.000+/-0.000 χ^2/NDF : 23.3/17

Out: -0.000+/-0.000 χ^2/NDF : 19.6/21

All: -0.000+/-0.000 χ^2/NDF : 47.4/39

asym_sam1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 831840.7/15

Left Out: 0.001+/-0.000 χ^2/NDF :22761.8/2

Right Out: 0.001+/-0.000 χ^2/NDF : 407257.8/18

Left In: 0.001+/-0.000 χ^2/NDF :28115.1/1

Left: 0.001+/-0.000 χ^2/NDF : 51695.6/4

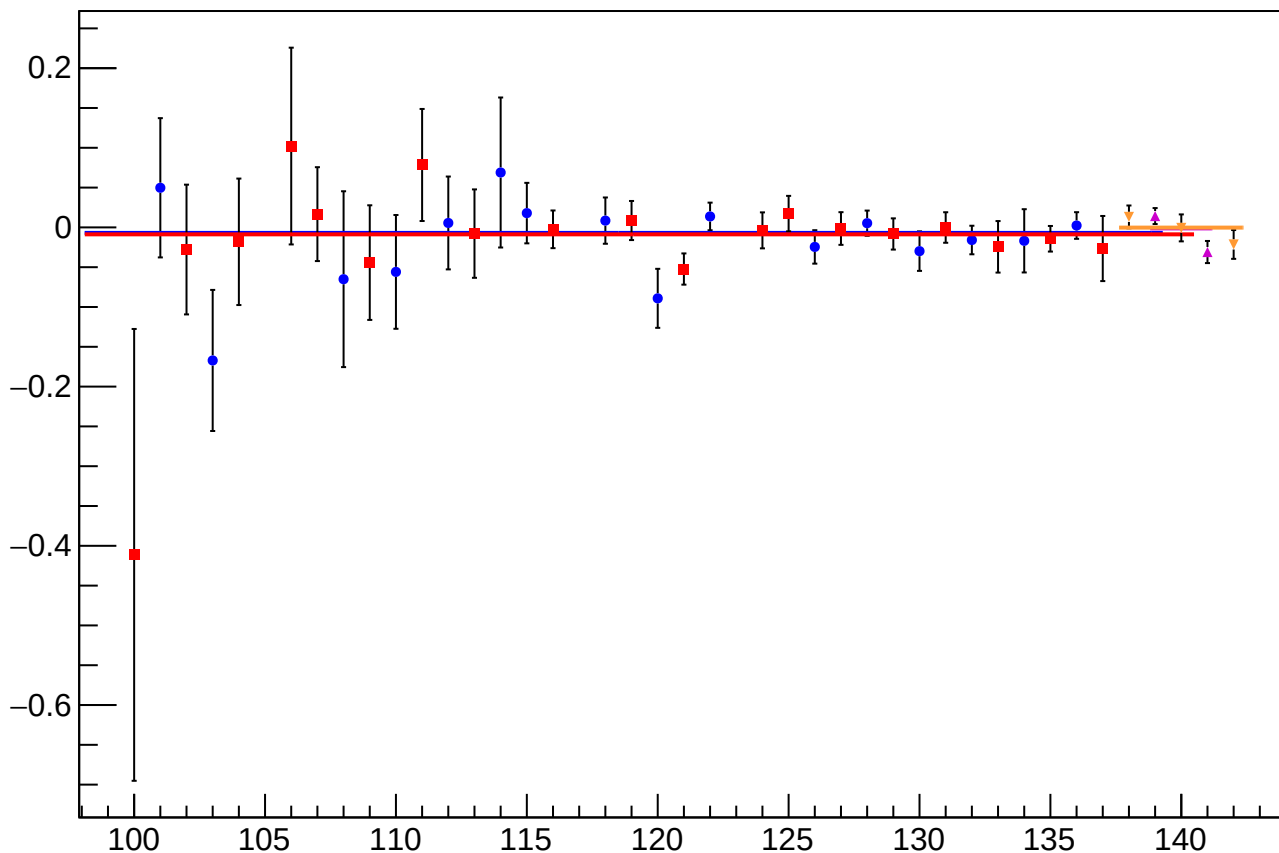
Right: 0.001+/-0.000 χ^2/NDF : 1249651.9/34

In: 0.001+/-0.000 χ^2/NDF :861309.6/17

Out: 0.001+/-0.000 χ^2/NDF :434553.5/21

All: 0.001+/-0.000 χ^2/NDF : 1301788.6/39

asym_sam1_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.007 χ^2/NDF : 14.9/15

Left Out: -0.000 ± 0.009 χ^2/NDF : 2.3/2

Right Out: -0.009 ± 0.006 χ^2/NDF : 12.6/18

Left In: -0.001 ± 0.008 χ^2/NDF : 6.9/1

Left: -0.001 ± 0.006 χ^2/NDF : 9.2/4

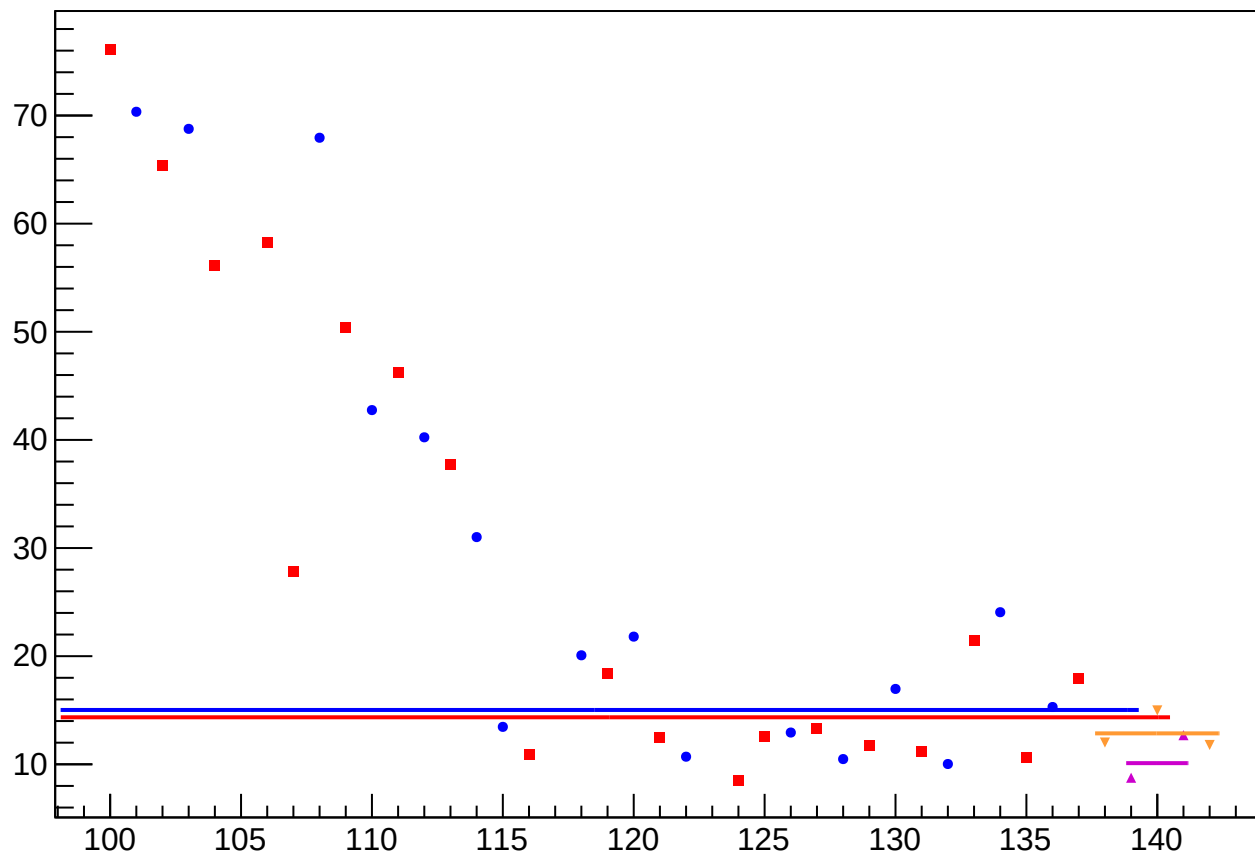
Right: -0.008 ± 0.005 χ^2/NDF : 27.6/34

In: -0.005 ± 0.005 χ^2/NDF : 22.2/17

Out: -0.006 ± 0.005 χ^2/NDF : 15.5/21

All: -0.005 ± 0.004 χ^2/NDF : 37.7/39

asym_sam1_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 15.025+/-0.005 χ^2/NDF : 3438279.3/15

Left Out: 12.860+/-0.007 χ^2/NDF : 45546.7/2

Right Out: 14.348+/-0.005 χ^2/NDF : 3629004.9/18

Left In: 10.108+/-0.006 χ^2/NDF : 105368.1/1

Left: 11.293+/-0.004 χ^2/NDF : 249467.6/4

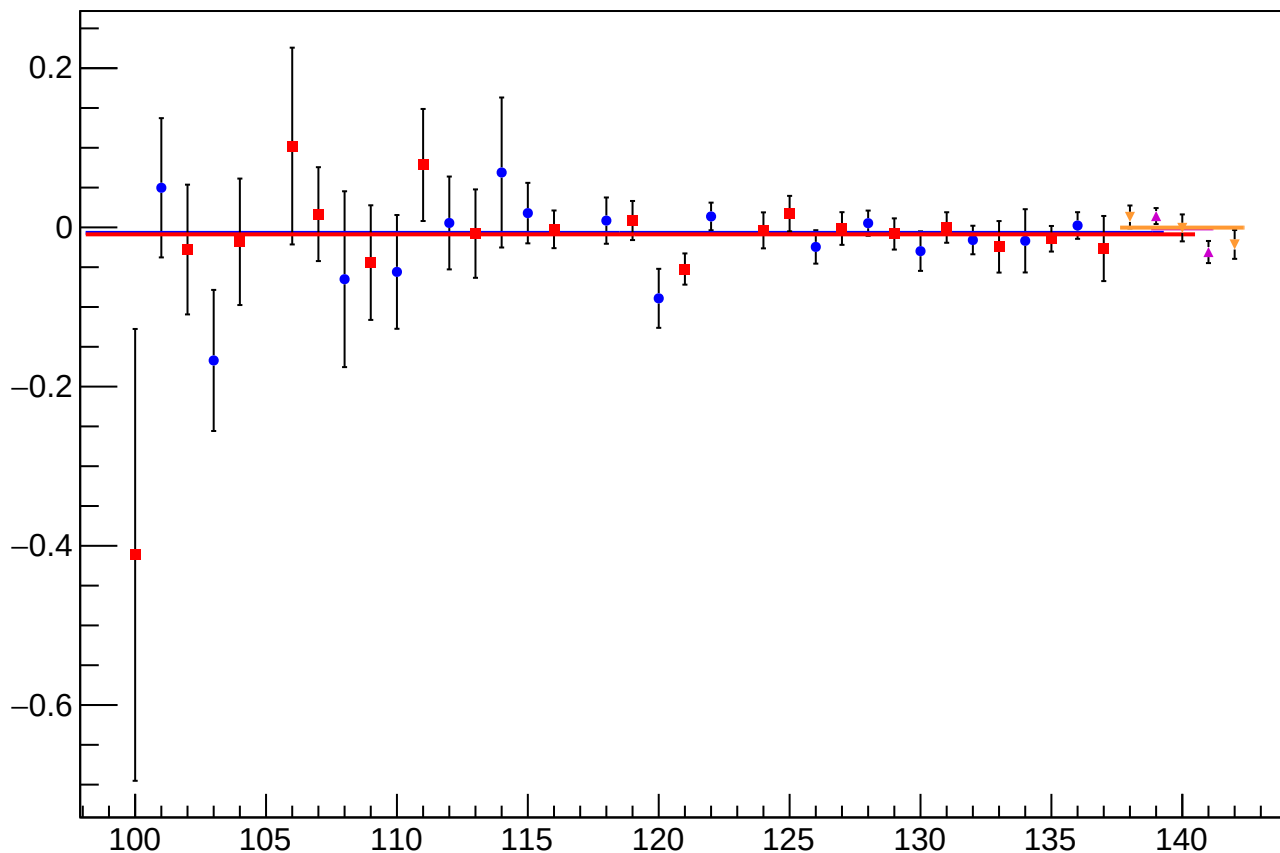
Right: 14.669+/-0.003 χ^2/NDF : 7077938.8/34

In: 13.027+/-0.004 χ^2/NDF : 3977232.1/17

Out: 13.875+/-0.004 χ^2/NDF : 3709048.4/21

All: 13.444+/-0.003 χ^2/NDF : 7712566.2/39

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.007 $\chi^2/\text{NDF}: 14.9/15$

Left Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 2.3/2$

Right Out: -0.009 ± 0.006 $\chi^2/\text{NDF}: 12.6/18$

Left In: -0.001 ± 0.008 $\chi^2/\text{NDF}: 6.9/1$

Left: -0.001 ± 0.006 $\chi^2/\text{NDF}: 9.2/4$

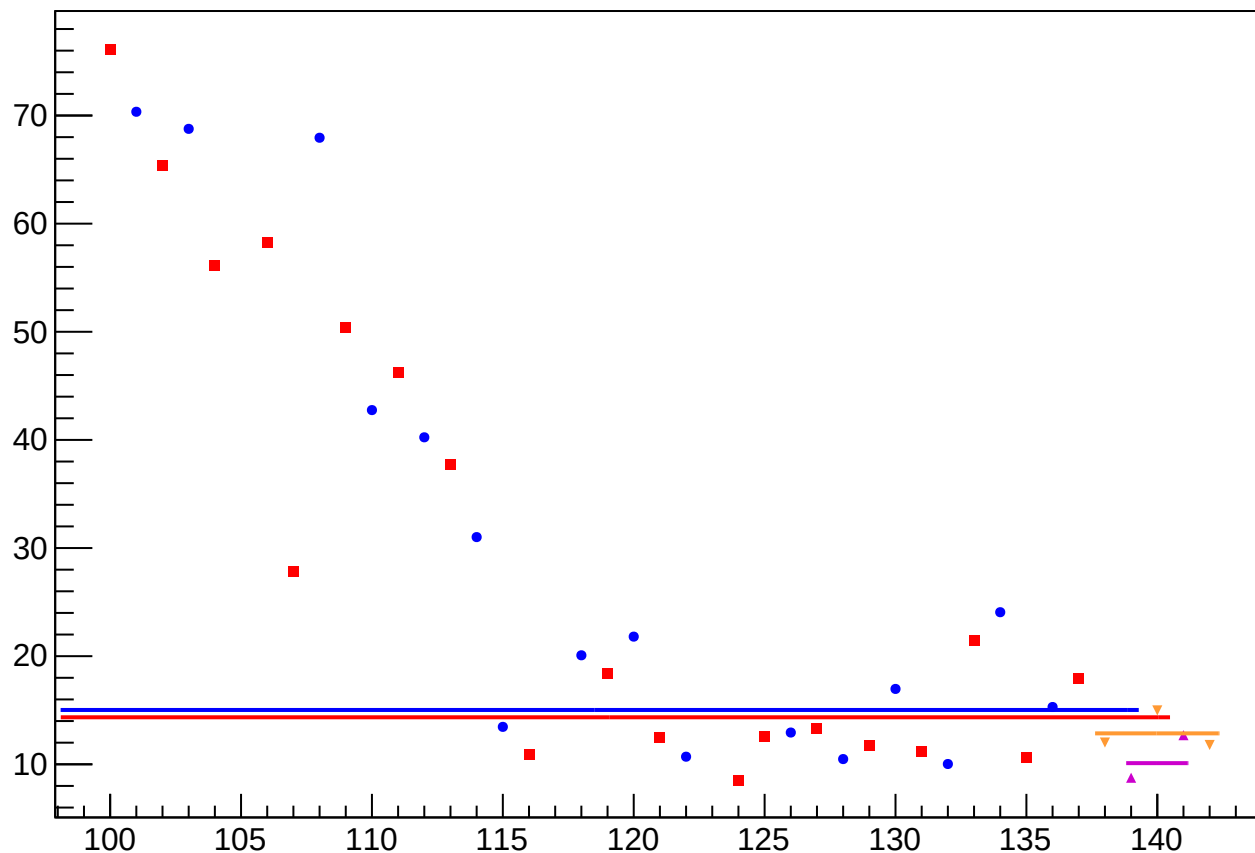
Right: -0.008 ± 0.005 $\chi^2/\text{NDF}: 27.6/34$

In: -0.005 ± 0.005 $\chi^2/\text{NDF}: 22.2/17$

Out: -0.006 ± 0.005 $\chi^2/\text{NDF}: 15.5/21$

All: -0.005 ± 0.004 $\chi^2/\text{NDF}: 37.7/39$

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 15.025+/-0.005 χ^2/NDF : 3438279.3/15

Left Out: 12.860+/-0.007 χ^2/NDF : 45546.7/2

Right Out: 14.348+/-0.005 χ^2/NDF : 3629004.9/18

Left In: 10.108+/-0.006 χ^2/NDF : 105368.1/1

Left: 11.293+/-0.004 χ^2/NDF : 249467.6/4

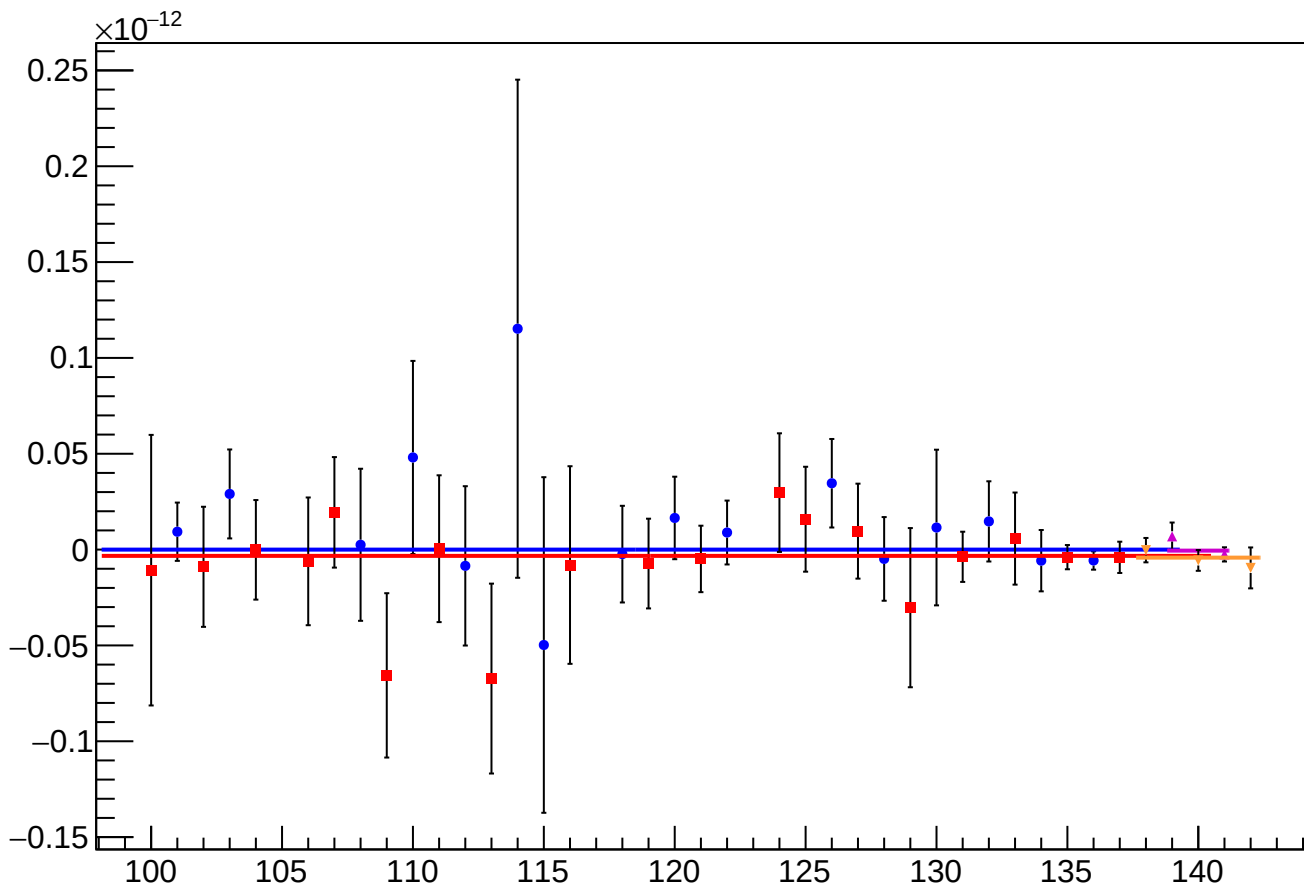
Right: 14.669+/-0.003 χ^2/NDF : 7077938.8/34

In: 13.027+/-0.004 χ^2/NDF : 3977232.1/17

Out: 13.875+/-0.004 χ^2/NDF : 3709048.4/21

All: 13.444+/-0.003 χ^2/NDF : 7712566.2/39

asym_sam1_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 9.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.7/2

Right Out: -0.000+/-0.000 χ^2/NDF : 7.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 1.3/1

Left: -0.000+/-0.000 χ^2/NDF : 2.6/4

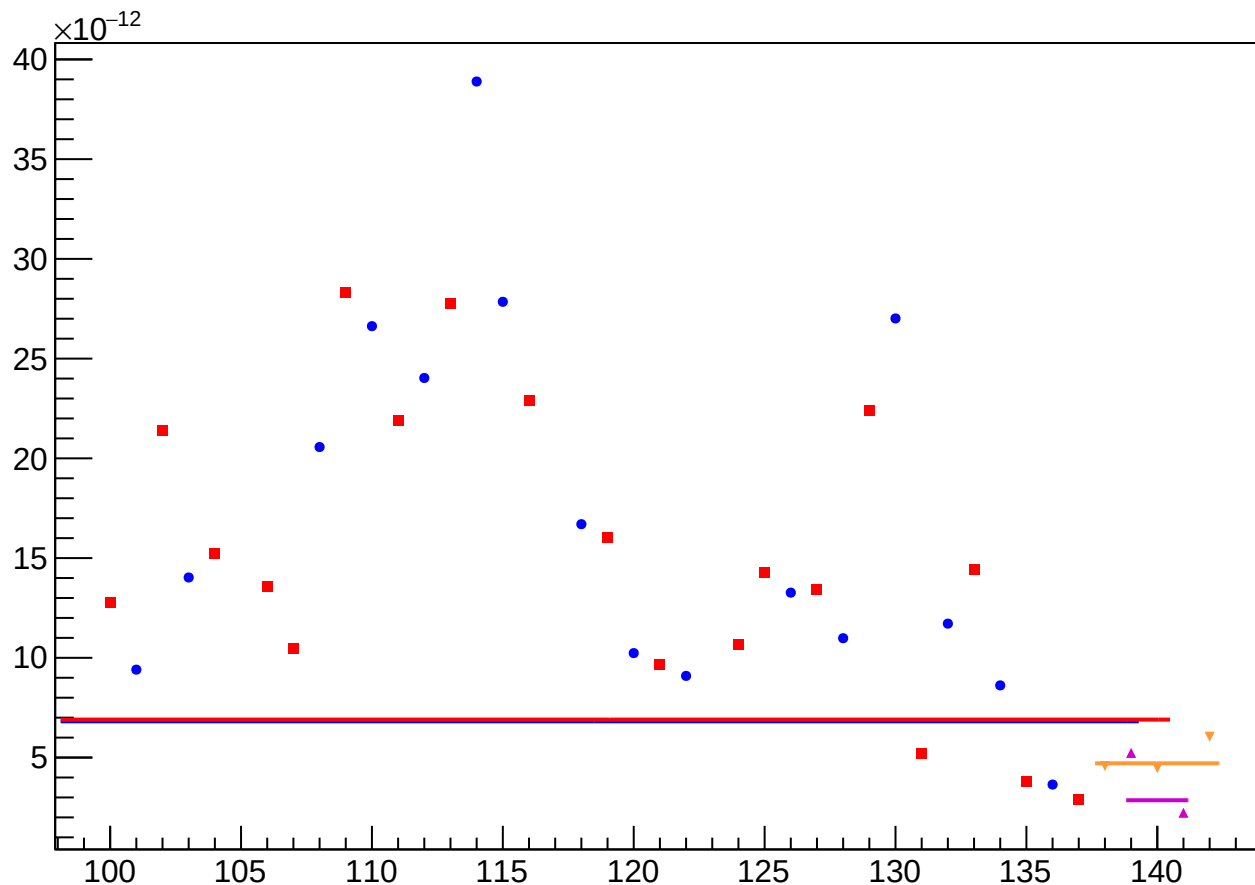
Right: -0.000+/-0.000 χ^2/NDF : 16.7/34

In: -0.000+/-0.000 χ^2/NDF : 10.7/17

Out: -0.000+/-0.000 χ^2/NDF : 7.7/21

All: -0.000+/-0.000 χ^2/NDF : 19.3/39

asym_sam1_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3511411.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 36059.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4241227.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 274305.6/1

Left: 0.000+/-0.000 χ^2/NDF : 577285.0/4

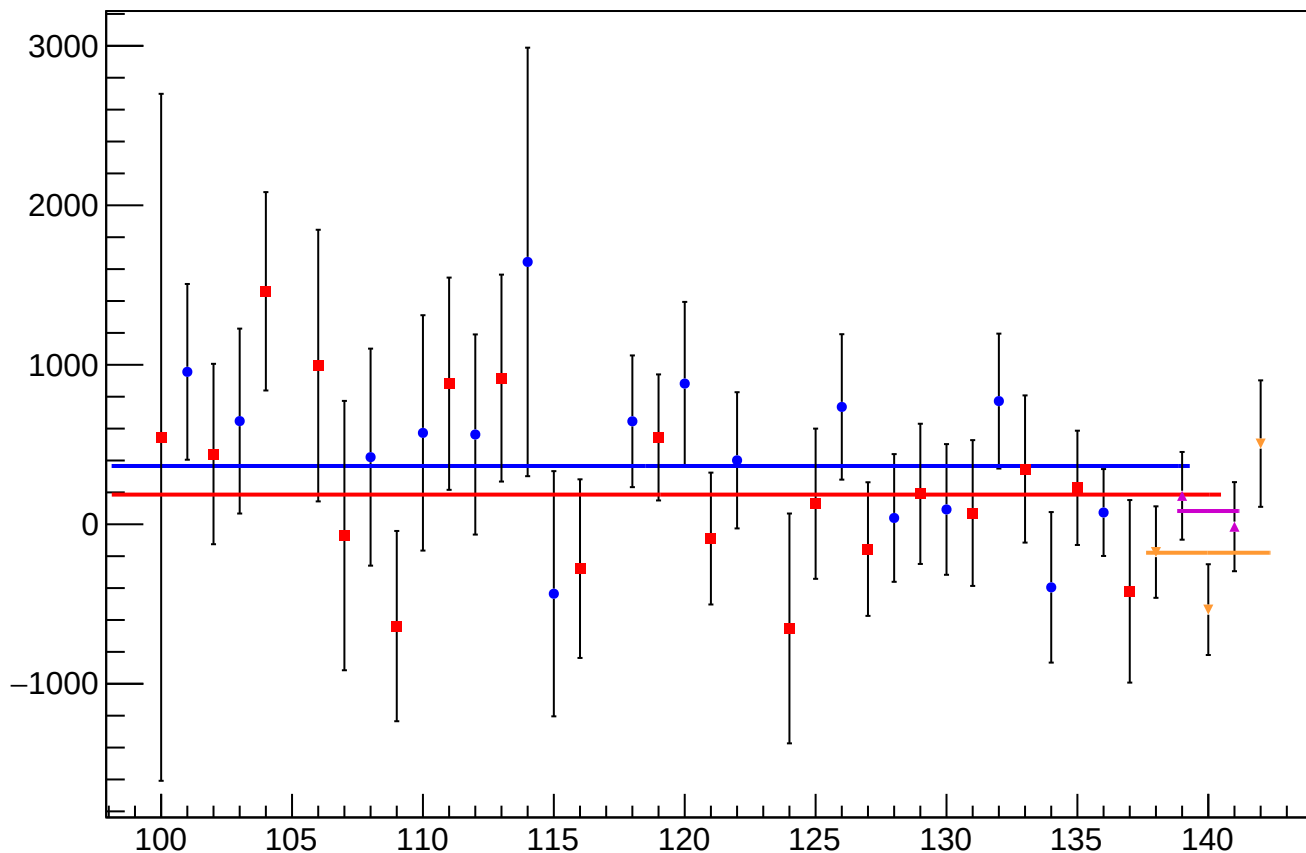
Right: 0.000+/-0.000 χ^2/NDF : 7753131.5/34

In: 0.000+/-0.000 χ^2/NDF : 5027821.6/17

Out: 0.000+/-0.000 χ^2/NDF : 4593237.5/21

All: 0.000+/-0.000 χ^2/NDF : 9835585.8/39

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 365.540 $\pm$ 118.873 χ^2 /NDF: 11.5/15

Left Out: -178.412 $\pm$ 180.009 χ^2 /NDF:4.6/2

Right Out: 186.141 $\pm$ 120.188 χ^2 /NDF: 15.0/18

Left In: 83.261 $\pm$ 195.985 χ^2 /NDF:0.2/1

Left: -58.674 $\pm$ 132.574 χ^2 /NDF: 5.8/4

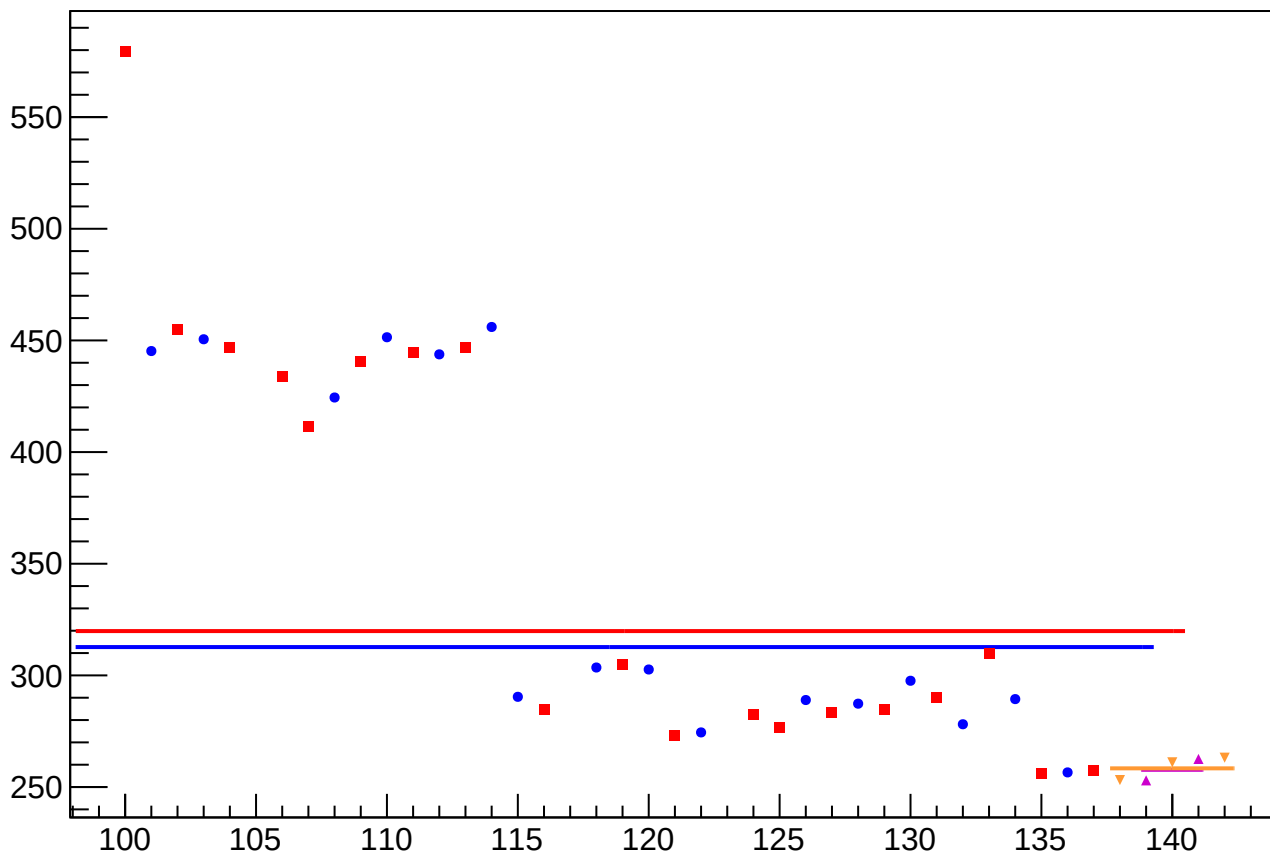
Right: 276.827 $\pm$ 84.517 χ^2 /NDF: 27.6/34

In: 289.621 $\pm$ 101.638 χ^2 /NDF:13.2/17

Out: 73.736 $\pm$ 99.956 χ^2 /NDF:22.4/21

All: 179.877 $\pm$ 71.267 χ^2 /NDF: 37.9/39

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 312.683+/-0.084 χ^2/NDF : 602207.7/15

Left Out: 258.371+/-0.127 χ^2/NDF :1139.8/2

Right Out: 319.841+/-0.085 χ^2/NDF : 697878.1/18

Left In: 257.716+/-0.139 χ^2/NDF :1198.6/1

Left: 258.071+/-0.094 χ^2/NDF : 2350.5/4

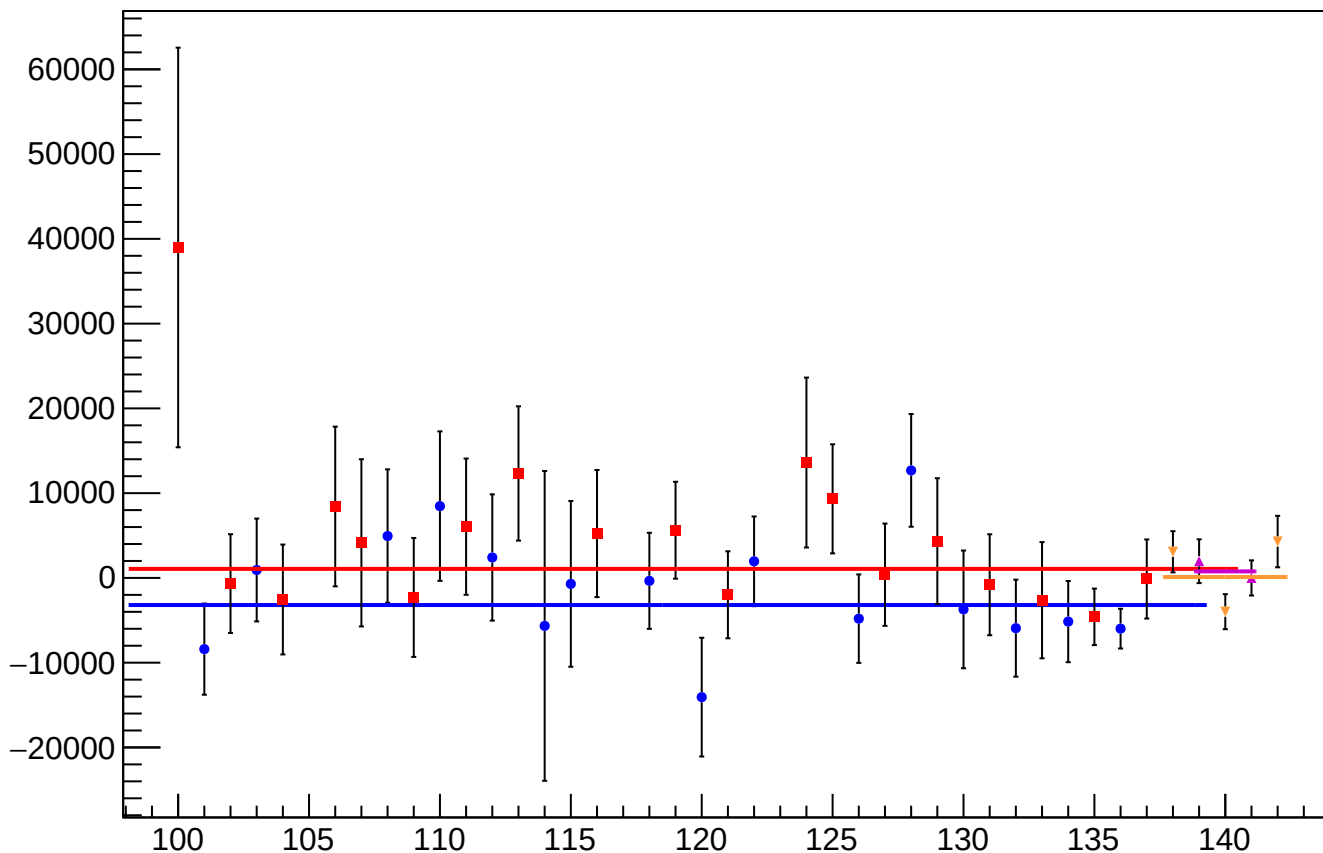
Right: 316.222+/-0.060 χ^2/NDF : 1303671.7/34

In: 297.900+/-0.072 χ^2/NDF :718415.4/17

Out: 300.887+/-0.071 χ^2/NDF :860326.3/21

All: 299.418+/-0.050 χ^2/NDF : 1579620.2/39

asym_sam2_reg_correction_mean vs Slug, Sign Corrected



Right In: -3198.742 $\pm$ 1353.814 χ^2 /NDF: 16.1/15

Left Out: 104.668 $\pm$ 1397.363 χ^2 /NDF: 7.3/2

Right Out: 1065.939 $\pm$ 1443.326 χ^2 /NDF: 14.4/18

Left In: 770.881 $\pm$ 1617.166 χ^2 /NDF: 0.4/1

Left: 389.455 $\pm$ 1057.324 χ^2 /NDF: 7.8/4

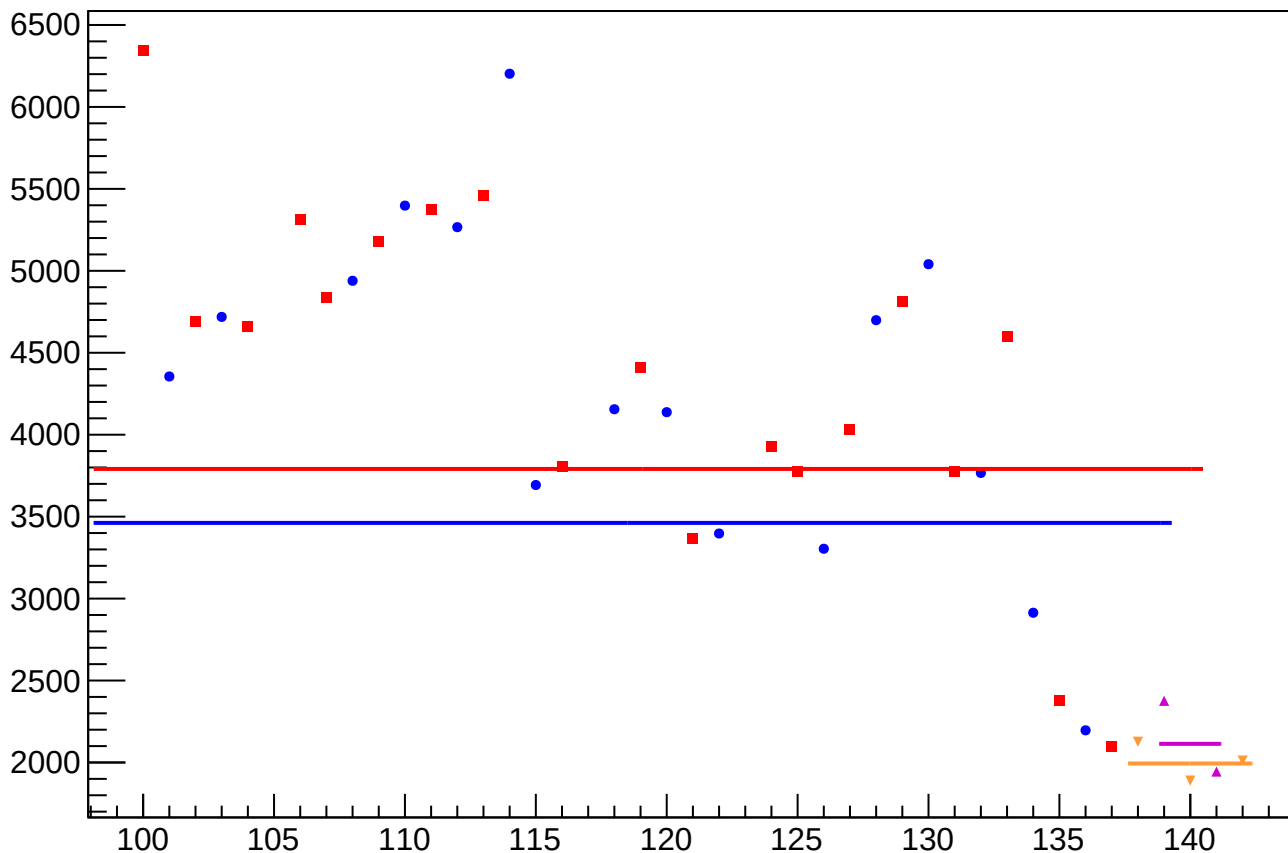
Right: -1202.738 $\pm$ 987.420 χ^2 /NDF: 35.1/34

In: -1563.062 $\pm$ 1038.076 χ^2 /NDF: 20.0/17

Out: 569.754 $\pm$ 1003.941 χ^2 /NDF: 21.9/21

All: -461.010 $\pm$ 721.659 χ^2 /NDF: 44.1/39

asym_sam2_reg_correction_rms vs Slug, Sign Corrected



Right In: 3461.927+/-0.957 χ^2/NDF : 1309580.1/15

Left Out: 1993.830+/-0.988 χ^2/NDF : 11118.8/2

Right Out: 3791.207+/-1.021 χ^2/NDF : 1155755.9/18

Left In: 2113.692+/-1.144 χ^2/NDF : 33968.2/1

Left: 2045.067+/-0.748 χ^2/NDF : 51377.4/4

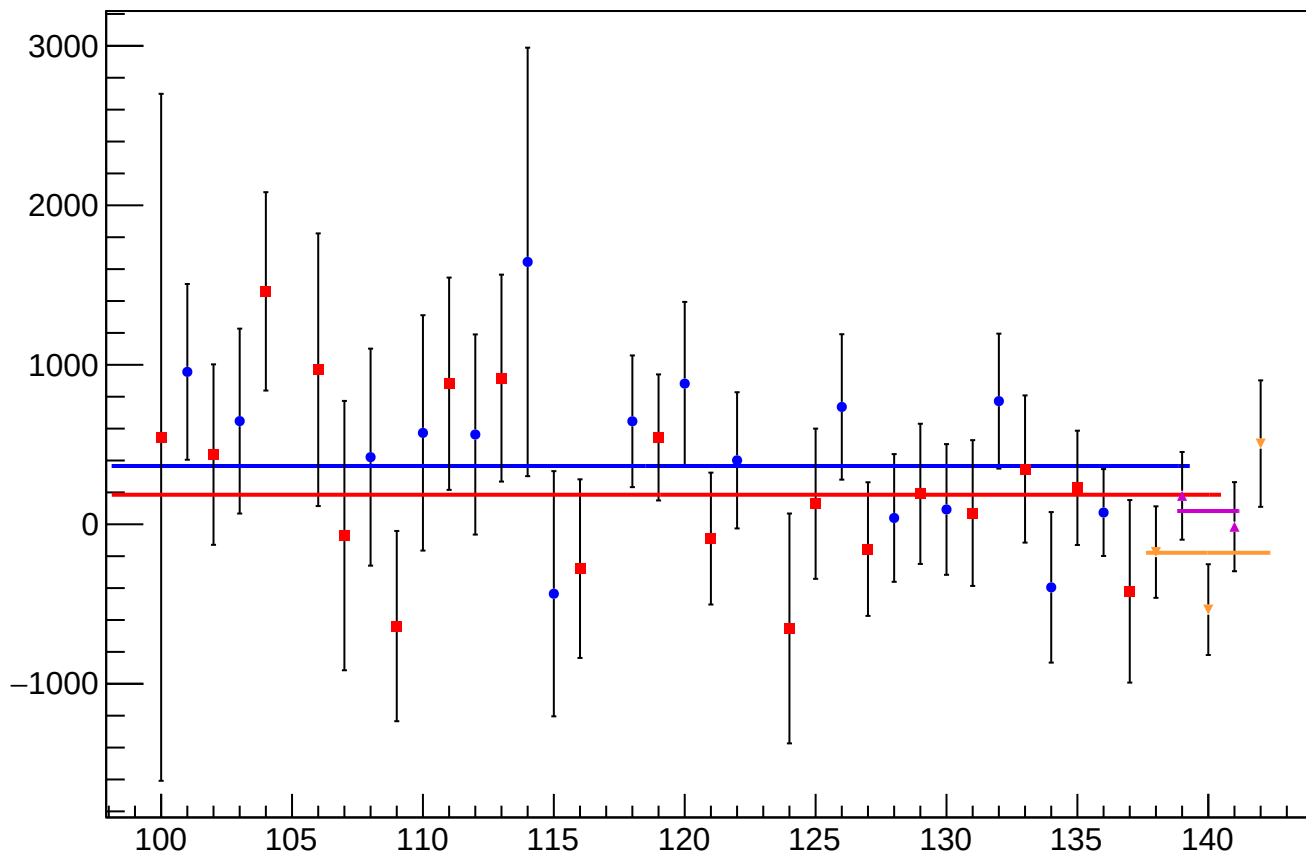
Right: 3616.041+/-0.698 χ^2/NDF : 2520711.5/34

In: 2906.388+/-0.734 χ^2/NDF : 2160869.9/17

Out: 2863.444+/-0.710 χ^2/NDF : 2767823.6/21

All: 2884.198+/-0.510 χ^2/NDF : 4930462.1/39

cor_asym_sam2_mean vs Slug, Sign Corrected



Right In: 365.523+/-118.873 χ^2/NDF : 11.5/15

Left Out: -178.391+/-180.009 χ^2/NDF : 4.6/2

Right Out: 185.331+/-120.199 χ^2/NDF : 14.9/18

Left In: 83.287+/-195.985 χ^2/NDF : 0.2/1

Left: -58.650+/-132.574 χ^2/NDF : 5.8/4

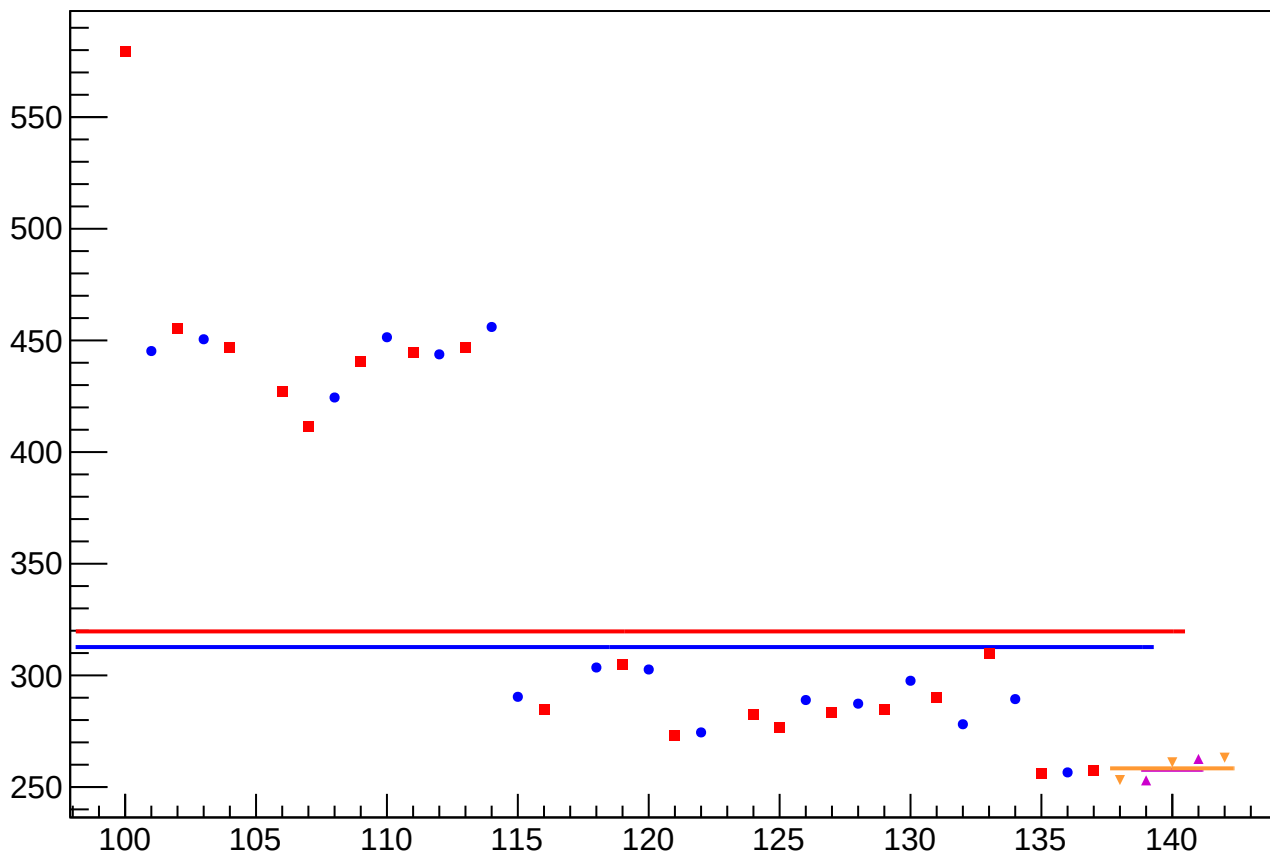
Right: 276.426+/-84.521 χ^2/NDF : 27.6/34

In: 289.616+/-101.638 χ^2/NDF : 13.2/17

Out: 73.168+/-99.962 χ^2/NDF : 22.3/21

All: 179.593+/-71.269 χ^2/NDF : 37.9/39

cor_asym_sam2_rms vs Slug, Sign Corrected



Right In: 312.683+/-0.084 χ^2/NDF : 602209.1/15

Left Out: 258.371+/-0.127 χ^2/NDF :1139.8/2

Right Out: 319.693+/-0.085 χ^2/NDF : 693714.1/18

Left In: 257.716+/-0.139 χ^2/NDF :1198.6/1

Left: 258.071+/-0.094 χ^2/NDF : 2350.5/4

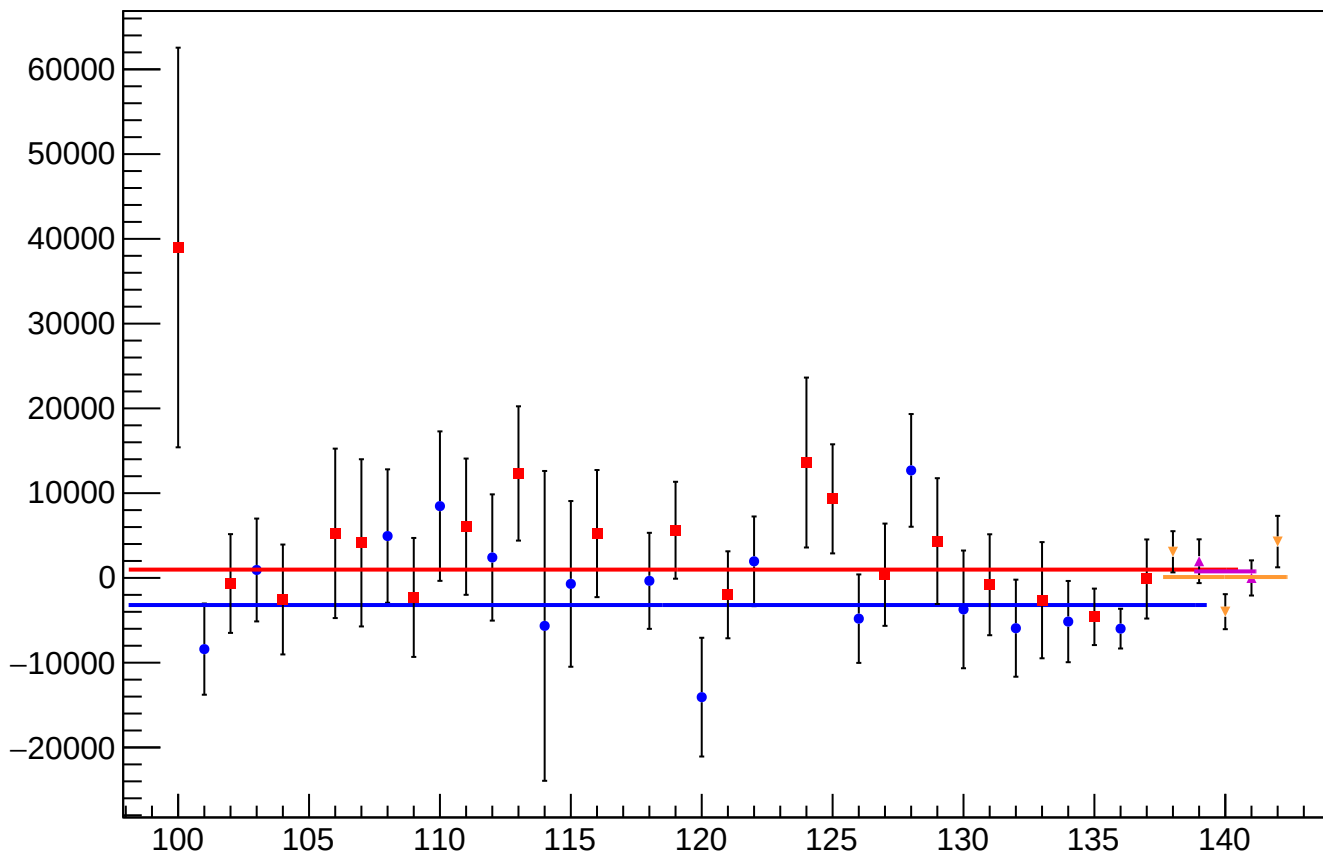
Right: 316.149+/-0.060 χ^2/NDF : 1299362.0/34

In: 297.900+/-0.072 χ^2/NDF :718416.9/17

Out: 300.782+/-0.071 χ^2/NDF :855376.7/21

All: 299.365+/-0.050 χ^2/NDF : 1574611.4/39

asym_sam2_cor_correction_mean vs Slug, Sign Corrected



Right In: -3198.673+/-1353.816 χ^2/NDF : 16.1/15

Left Out: 104.668+/-1397.362 χ^2/NDF : 7.3/2

Right Out: 980.937+/-1445.265 χ^2/NDF : 14.0/18

Left In: 770.945+/-1617.167 χ^2/NDF : 0.4/1

Left: 389.482+/-1057.324 χ^2/NDF : 7.8/4

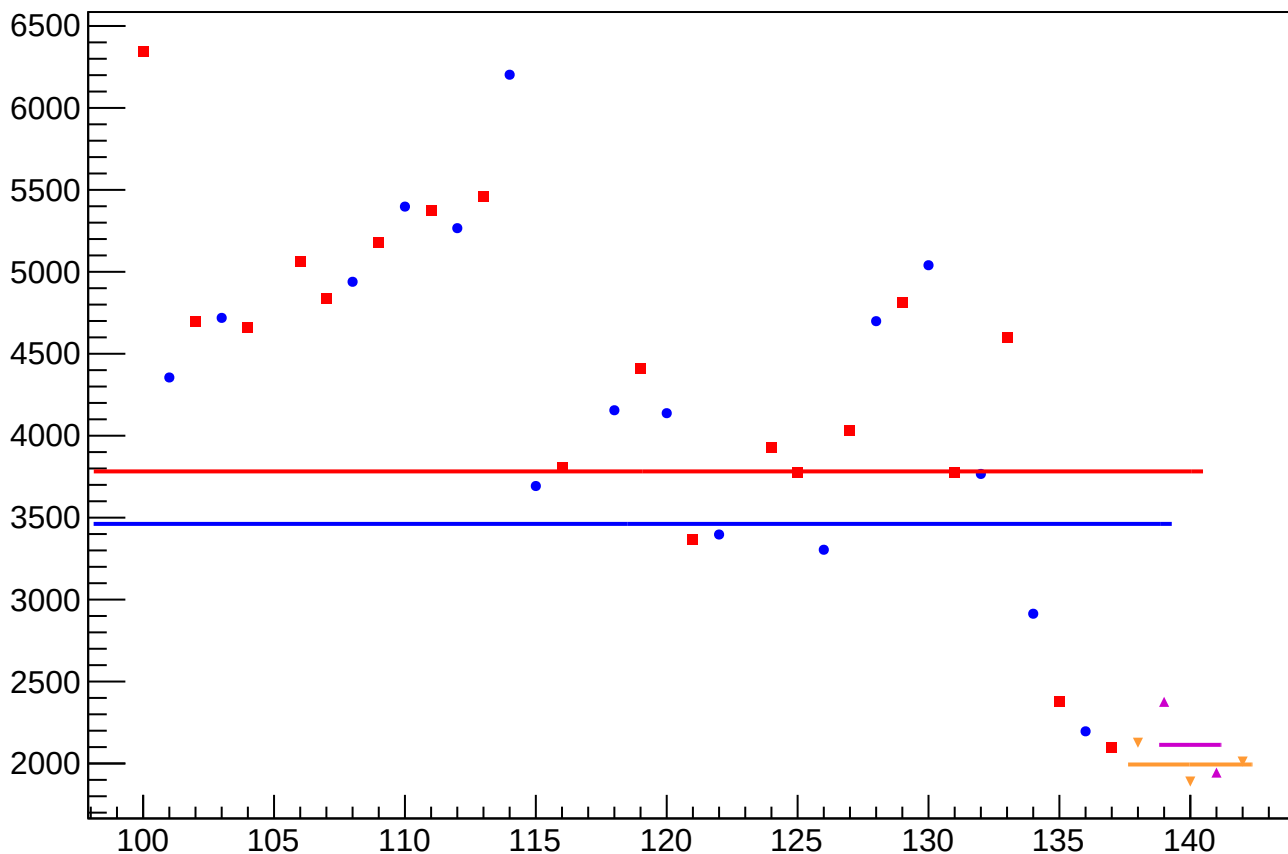
Right: -1245.274+/-988.041 χ^2/NDF : 34.5/34

In: -1562.992+/-1038.078 χ^2/NDF : 20.0/17

Out: 528.041+/-1004.592 χ^2/NDF : 21.5/21

All: -483.207+/-721.902 χ^2/NDF : 43.5/39

asym_sam2_cor_correction_rms vs Slug, Sign Corrected



Right In: 3461.932 $\pm$ 0.957 χ^2 /NDF: 1309596.2/15

Left Out: 1993.830 $\pm$ 0.988 χ^2 /NDF: 11119.2/2

Right Out: 3782.176 $\pm$ 1.022 χ^2 /NDF: 1136342.8/18

Left In: 2113.693 $\pm$ 1.144 χ^2 /NDF: 33968.1/1

Left: 2045.068 $\pm$ 0.748 χ^2 /NDF: 51377.8/4

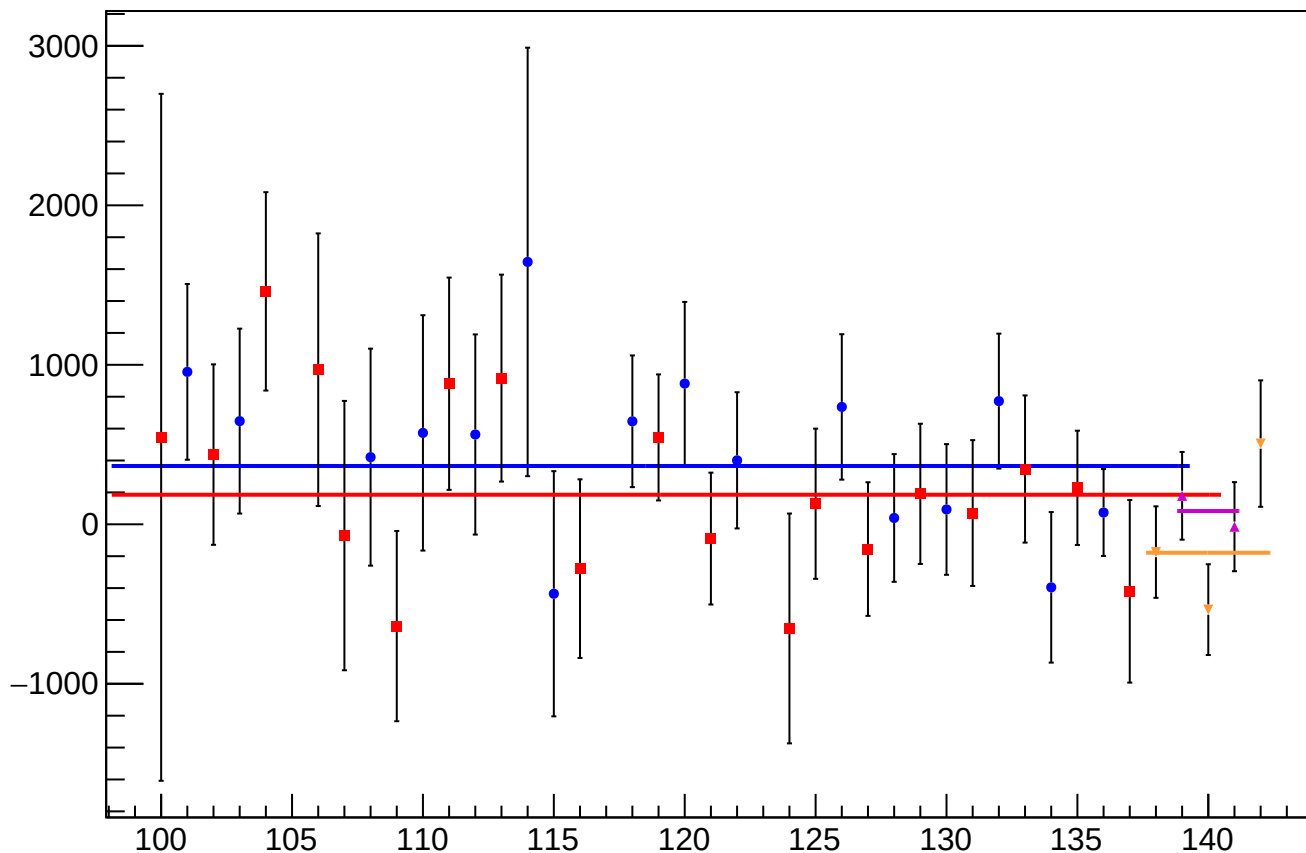
Right: 3611.602 $\pm$ 0.699 χ^2 /NDF: 2498242.4/34

In: 2906.390 $\pm$ 0.734 χ^2 /NDF: 2160888.5/17

Out: 2857.875 $\pm$ 0.710 χ^2 /NDF: 2730167.9/21

All: 2881.337 $\pm$ 0.510 χ^2 /NDF: 4893312.1/39

eigen_cor_asym_sam2_mean vs Slug, Sign Corrected



Right In: 365.523+/-118.873 χ^2/NDF : 11.5/15

Left Out: -178.391+/-180.009 χ^2/NDF : 4.6/2

Right Out: 185.331+/-120.199 χ^2/NDF : 14.9/18

Left In: 83.287+/-195.985 χ^2/NDF : 0.2/1

Left: -58.650+/-132.574 χ^2/NDF : 5.8/4

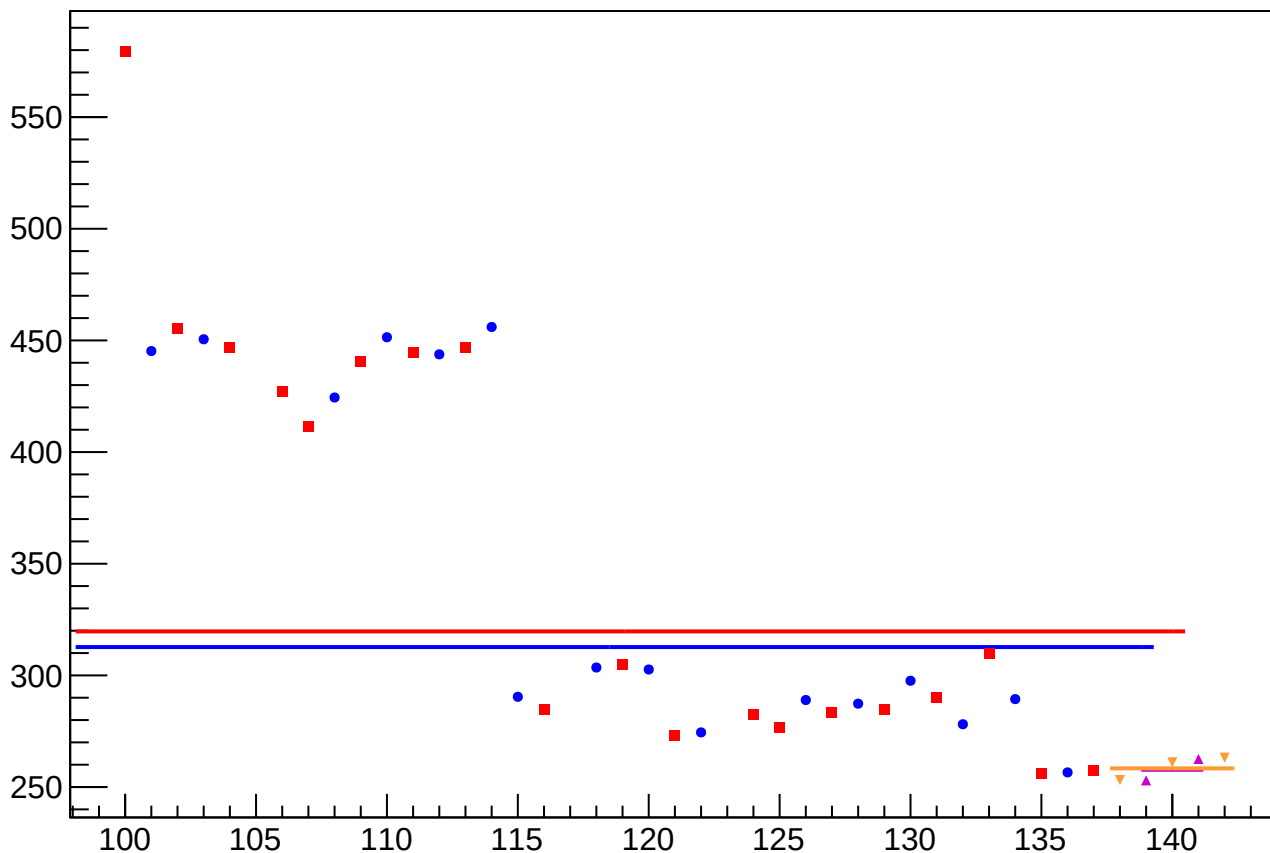
Right: 276.426+/-84.521 χ^2/NDF : 27.6/34

In: 289.616+/-101.638 χ^2/NDF : 13.2/17

Out: 73.168+/-99.962 χ^2/NDF : 22.3/21

All: 179.593+/-71.269 χ^2/NDF : 37.9/39

eigen_cor_asym_sam2_rms vs Slug, Sign Corrected



Right In: 312.683+/-0.084 χ^2/NDF : 602209.1/15

Left Out: 258.371+/-0.127 χ^2/NDF :1139.8/2

Right Out: 319.693+/-0.085 χ^2/NDF : 693714.1/18

Left In: 257.716+/-0.139 χ^2/NDF :1198.6/1

Left: 258.071+/-0.094 χ^2/NDF : 2350.5/4

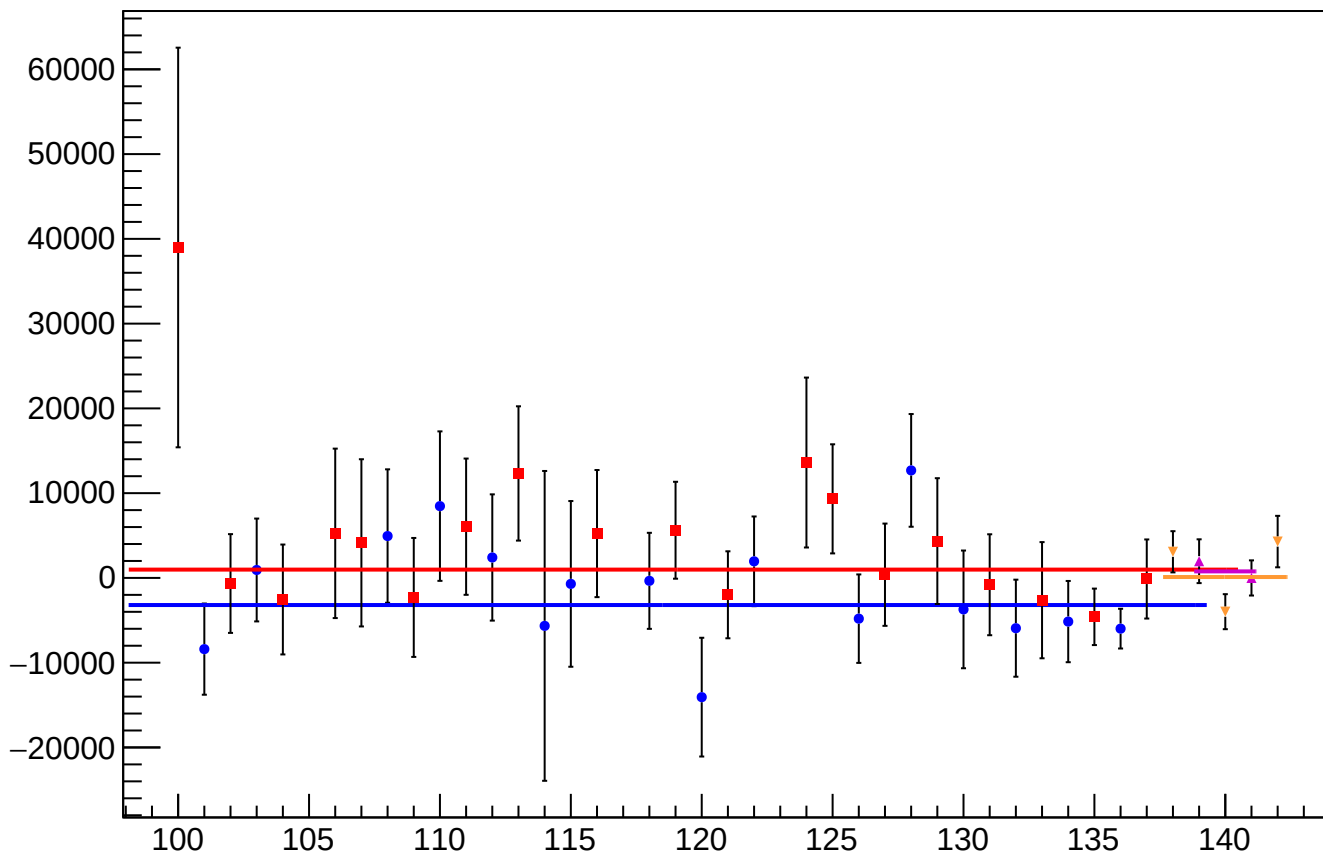
Right: 316.149+/-0.060 χ^2/NDF : 1299362.0/34

In: 297.900+/-0.072 χ^2/NDF :718416.9/17

Out: 300.782+/-0.071 χ^2/NDF :855376.7/21

All: 299.365+/-0.050 χ^2/NDF : 1574611.4/39

asym_sam2_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -3198.673+/-1353.816 χ^2/NDF : 16.1/15

Left Out: 104.668+/-1397.362 χ^2/NDF : 7.3/2

Right Out: 980.937+/-1445.265 χ^2/NDF : 14.0/18

Left In: 770.945+/-1617.167 χ^2/NDF : 0.4/1

Left: 389.482+/-1057.324 χ^2/NDF : 7.8/4

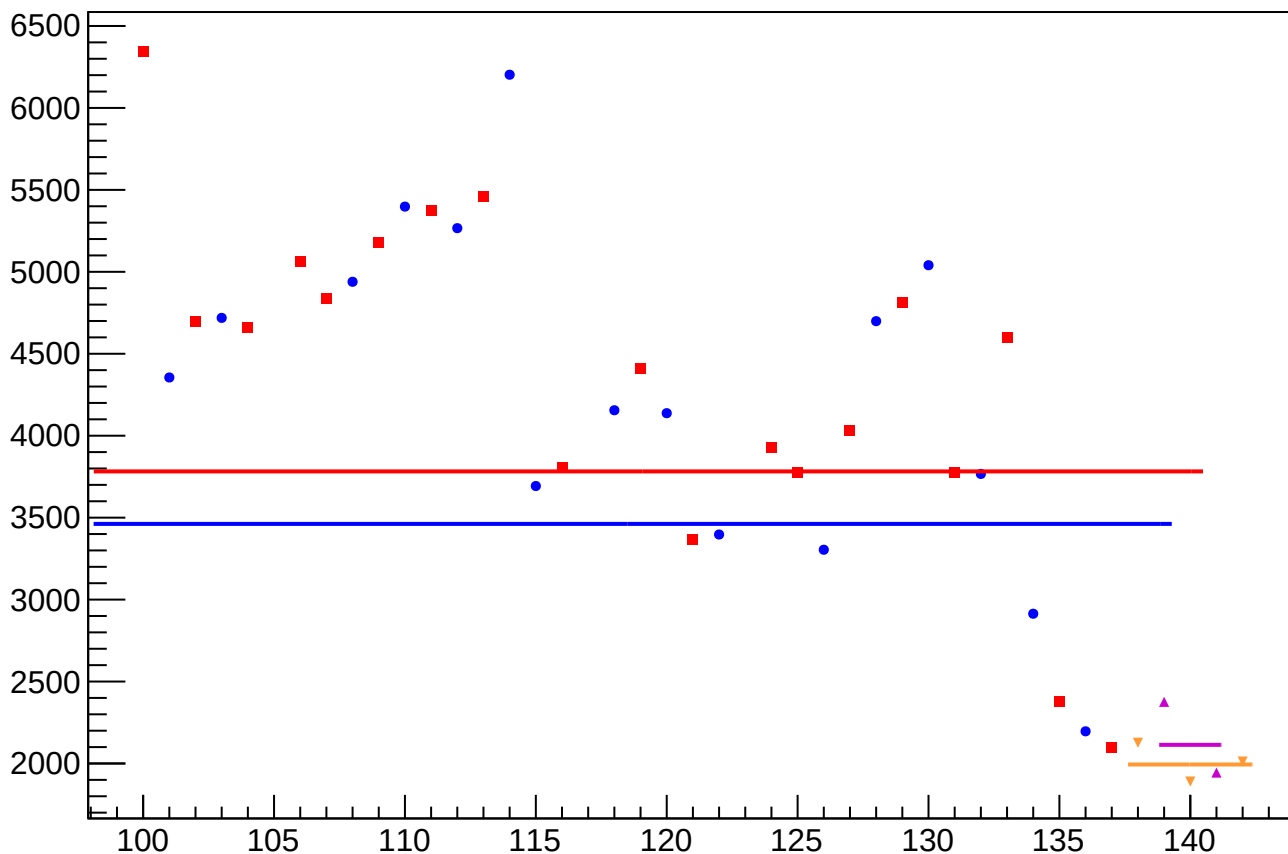
Right: -1245.274+/-988.041 χ^2/NDF : 34.5/34

In: -1562.992+/-1038.078 χ^2/NDF : 20.0/17

Out: 528.041+/-1004.592 χ^2/NDF : 21.5/21

All: -483.207+/-721.902 χ^2/NDF : 43.5/39

asym_sam2_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3461.932+/-0.957 χ^2/NDF : 1309596.2/15

Left Out: 1993.830+/-0.988 χ^2/NDF : 11119.2/2

Right Out: 3782.176+/-1.022 χ^2/NDF : 1136342.8/18

Left In: 2113.693+/-1.144 χ^2/NDF : 33968.1/1

Left: 2045.068+/-0.748 χ^2/NDF : 51377.8/4

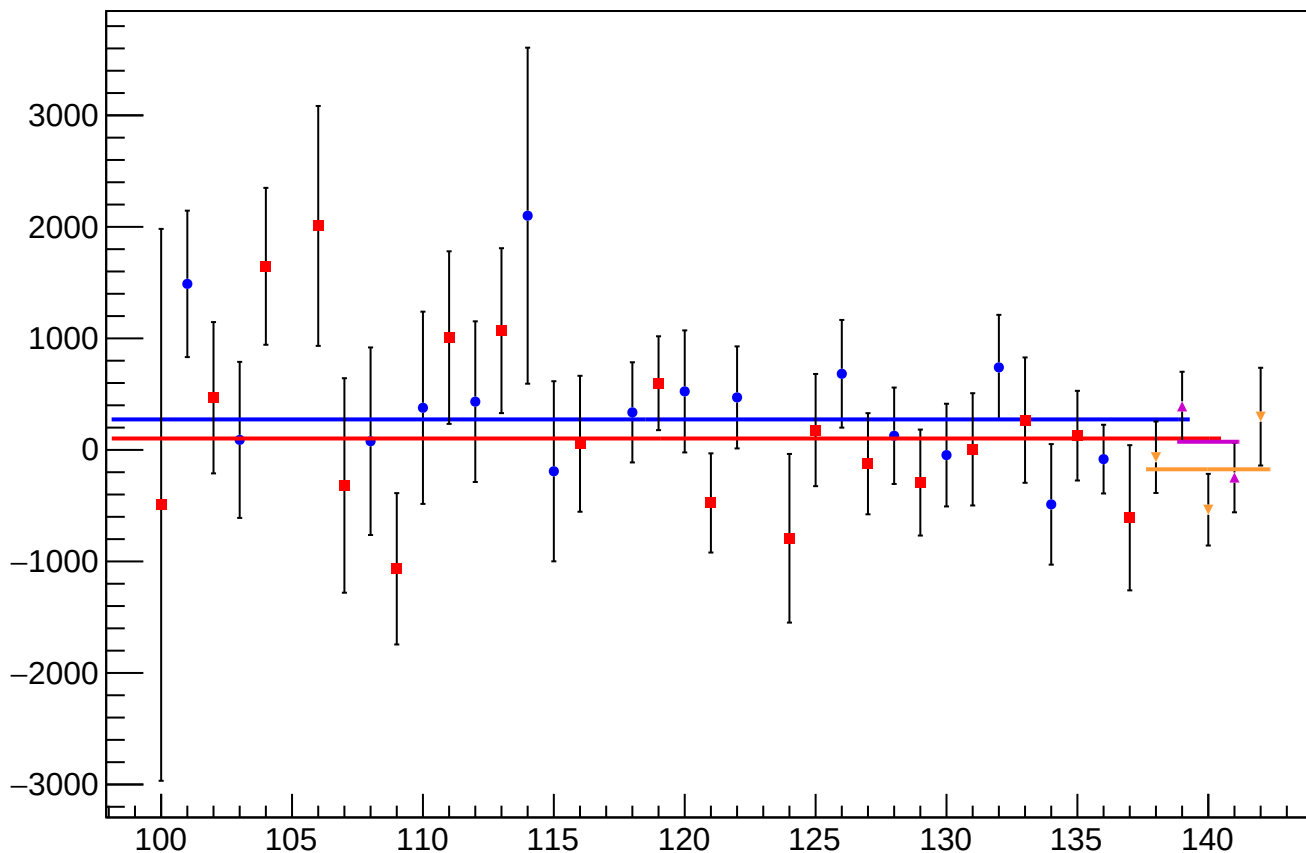
Right: 3611.602+/-0.699 χ^2/NDF : 2498242.4/34

In: 2906.390+/-0.734 χ^2/NDF : 2160888.5/17

Out: 2857.875+/-0.710 χ^2/NDF : 2730167.9/21

All: 2881.337+/-0.510 χ^2/NDF : 4893312.1/39

dit_asym_sam2_mean vs Slug, Sign Corrected



Right In: 273.578+/-132.537 χ^2/NDF : 11.4/15

Left Out: -173.762+/-201.479 χ^2/NDF : 2.5/2

Right Out: 102.369+/-133.606 χ^2/NDF : 21.3/18

Left In: 73.105+/-219.989 χ^2/NDF : 2.1/1

Left: -61.150+/-148.581 χ^2/NDF : 5.3/4

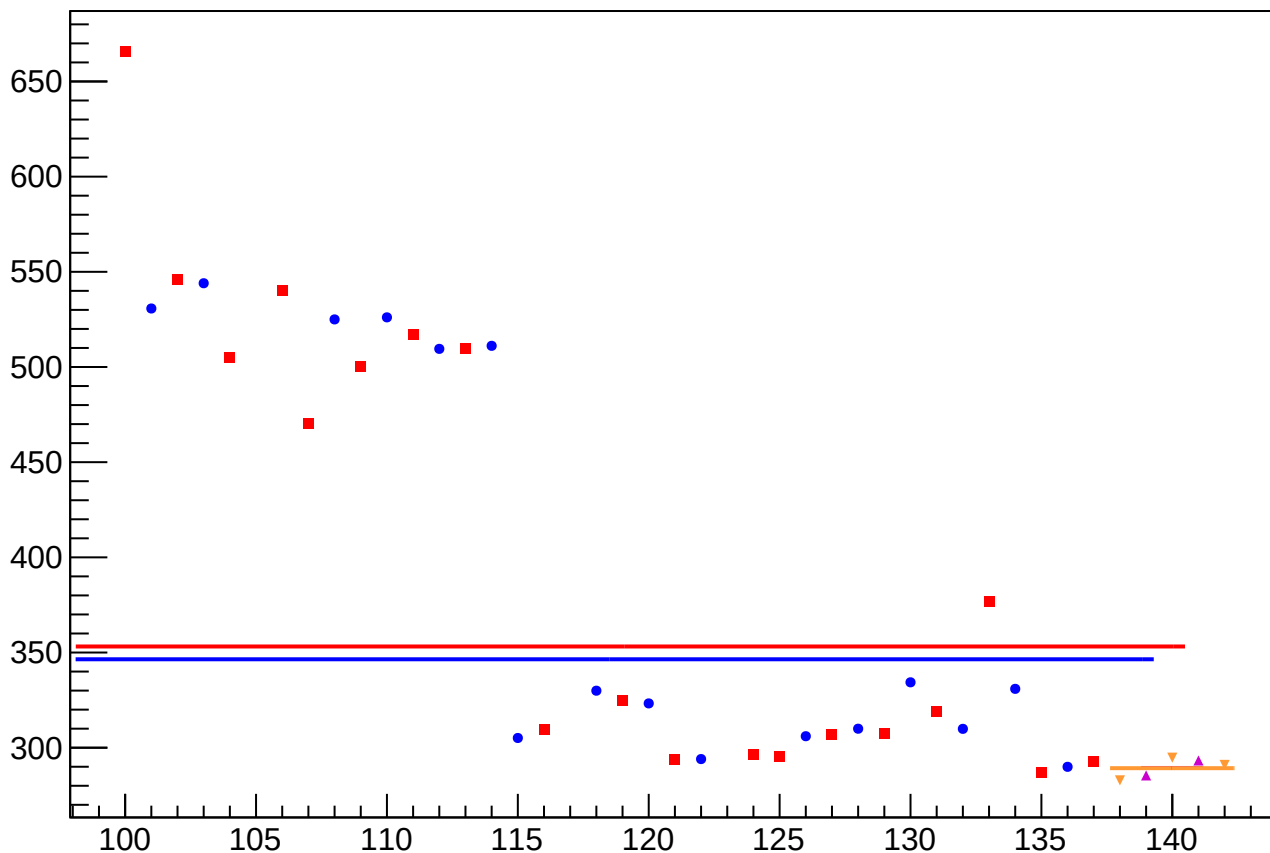
Right: 188.661+/-94.094 χ^2/NDF : 33.6/34

In: 220.190+/-113.526 χ^2/NDF : 14.2/17

Out: 18.031+/-111.349 χ^2/NDF : 25.2/21

All: 117.153+/-79.494 χ^2/NDF : 40.9/39

dit_asym_sam2_rms vs Slug, Sign Corrected



Right In: 346.455+/-0.094 χ^2/NDF : 768763.1/15

Left Out: 289.247+/-0.142 χ^2/NDF :1418.7/2

Right Out: 353.178+/-0.094 χ^2/NDF : 866364.3/18

Left In: 289.350+/-0.156 χ^2/NDF :637.6/1

Left: 289.294+/-0.105 χ^2/NDF : 2056.5/4

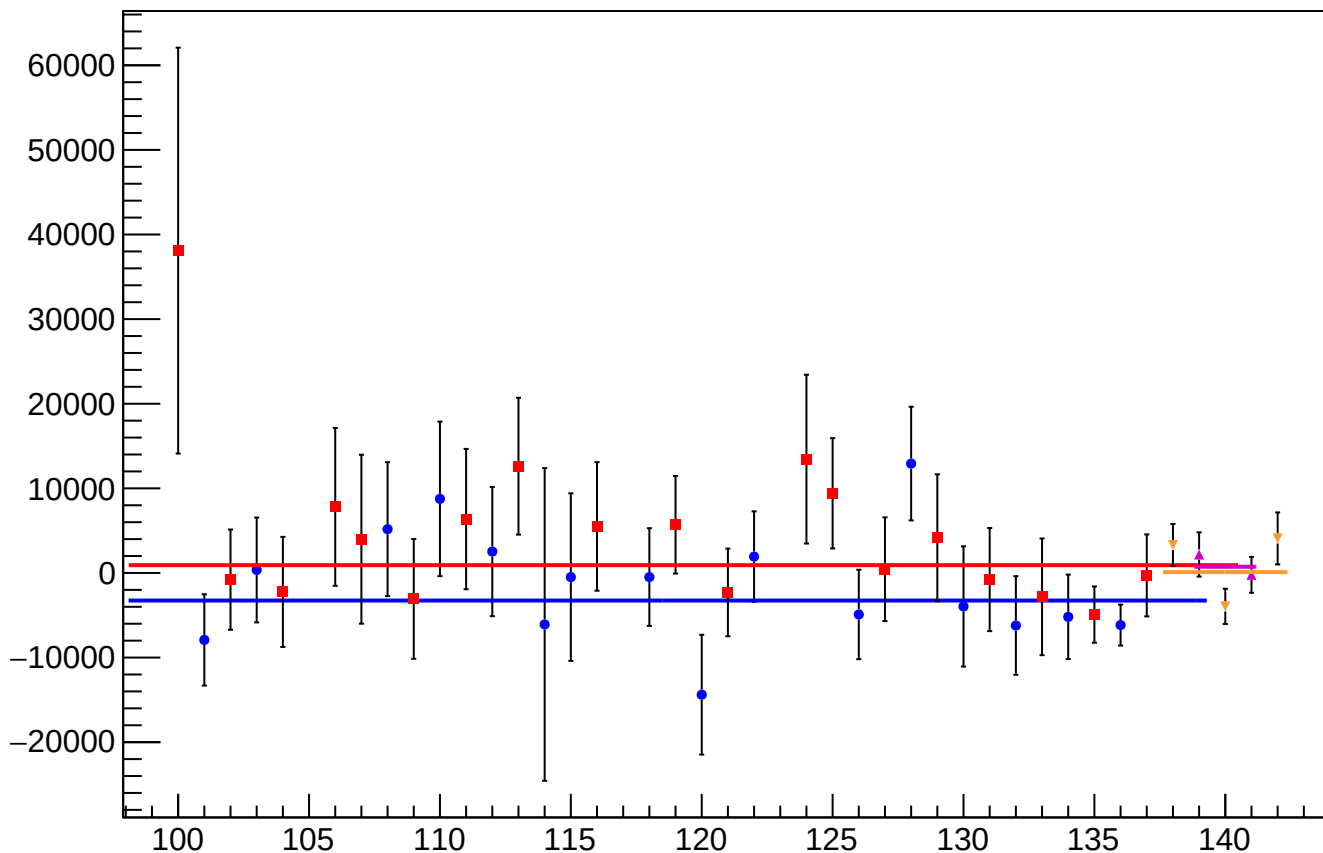
Right: 349.789+/-0.067 χ^2/NDF : 1637679.7/34

In: 331.247+/-0.080 χ^2/NDF :868274.3/17

Out: 333.651+/-0.079 χ^2/NDF :1007648.4/21

All: 332.473+/-0.056 χ^2/NDF : 1876379.8/39

asym_sam2_dit_correction_mean vs Slug, Sign Corrected



Right In: -3258.837 $\pm$ 1384.139 χ^2 /NDF: 16.0/15

Left Out: 102.997 $\pm$ 1416.950 χ^2 /NDF: 7.1/2

Right Out: 921.196 $\pm$ 1460.727 χ^2 /NDF: 14.6/18

Left In: 734.055 $\pm$ 1646.667 χ^2 /NDF: 0.5/1

Left: 371.473 $\pm$ 1074.047 χ^2 /NDF: 7.7/4

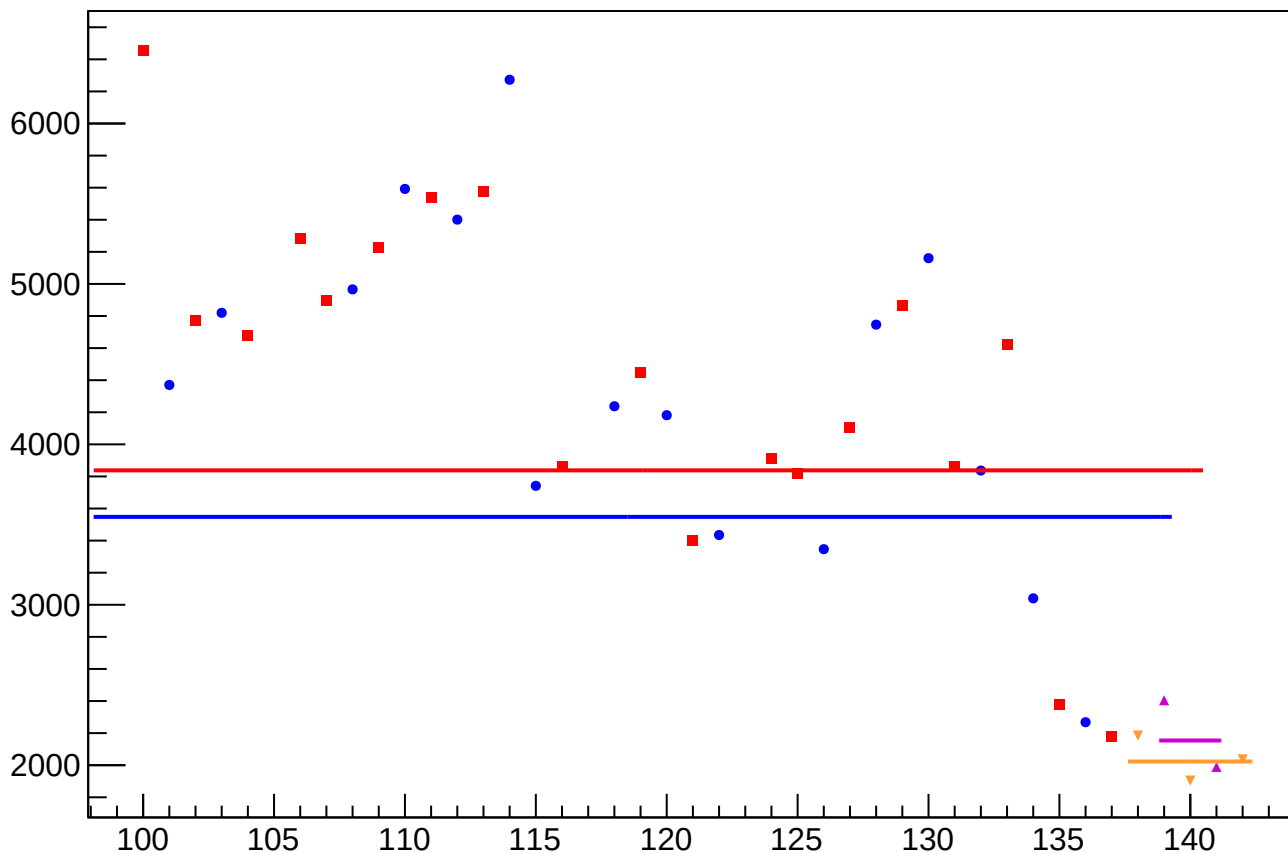
Right: -1281.271 $\pm$ 1004.719 χ^2 /NDF: 35.0/34

In: -1605.678 $\pm$ 1059.545 χ^2 /NDF: 20.0/17

Out: 499.653 $\pm$ 1017.059 χ^2 /NDF: 21.9/21

All: -509.958 $\pm$ 733.730 χ^2 /NDF: 44.0/39

asym_sam2_dit_correction_rms vs Slug, Sign Corrected



Right In: 3547.969+/-0.979 χ^2/NDF : 1258486.8/15

Left Out: 2023.081+/-1.002 χ^2/NDF : 14990.7/2

Right Out: 3837.970+/-1.033 χ^2/NDF : 1155831.8/18

Left In: 2154.015+/-1.164 χ^2/NDF : 30502.5/1

Left: 2078.785+/-0.759 χ^2/NDF : 52758.6/4

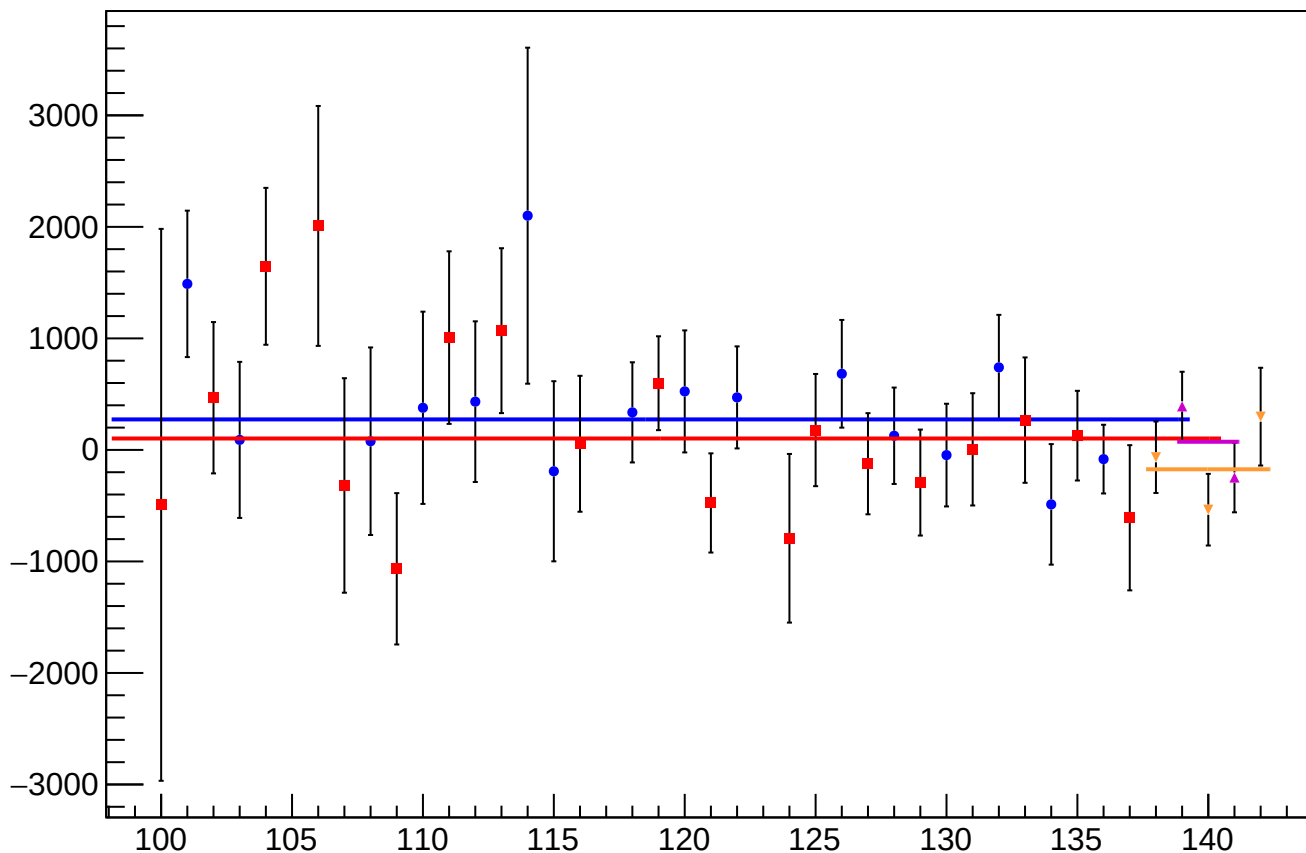
Right: 3685.168+/-0.710 χ^2/NDF : 2455854.0/34

In: 2970.837+/-0.749 χ^2/NDF : 2128824.8/17

Out: 2902.923+/-0.719 χ^2/NDF : 2761474.7/21

All: 2935.491+/-0.519 χ^2/NDF : 4894576.0/39

eigen_dit_asym_sam2_mean vs Slug, Sign Corrected



Right In: 273.582 $\pm$ 132.536 χ^2/NDF : 11.4/15

Left Out: -173.769 $\pm$ 201.478 χ^2/NDF : 2.5/2

Right Out: 102.368 $\pm$ 133.606 χ^2/NDF : 21.3/18

Left In: 73.103 $\pm$ 219.989 χ^2/NDF : 2.1/1

Left: -61.154 $\pm$ 148.580 χ^2/NDF : 5.3/4

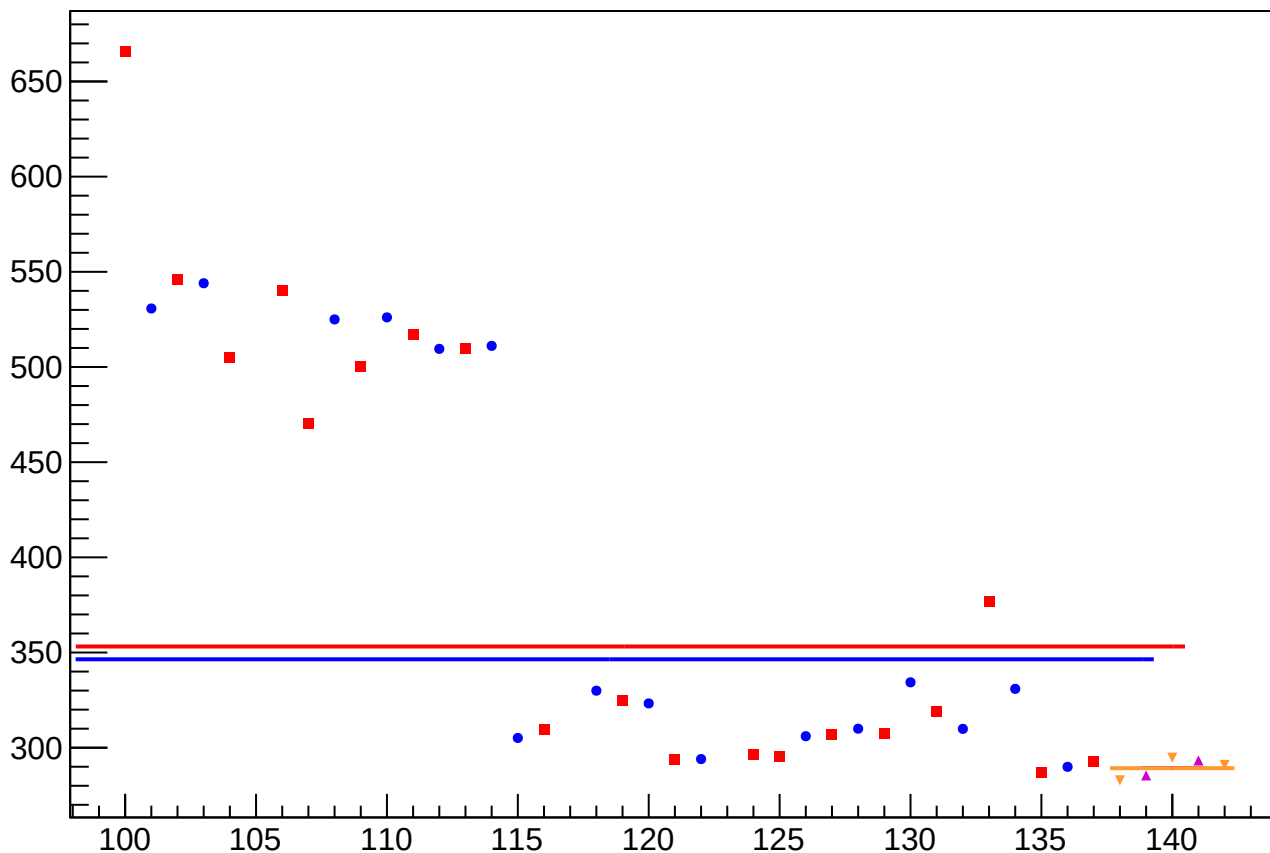
Right: 188.663 $\pm$ 94.093 χ^2/NDF : 33.6/34

In: 220.193 $\pm$ 113.525 χ^2/NDF : 14.2/17

Out: 18.028 $\pm$ 111.348 χ^2/NDF : 25.2/21

All: 117.153 $\pm$ 79.494 χ^2/NDF : 40.9/39

eigen_dit_asym_sam2_rms vs Slug, Sign Corrected



Right In: 346.453+/-0.094 χ^2/NDF : 768754.7/15

Left Out: 289.247+/-0.142 χ^2/NDF :1419.0/2

Right Out: 353.176+/-0.094 χ^2/NDF : 866353.6/18

Left In: 289.350+/-0.156 χ^2/NDF :637.7/1

Left: 289.294+/-0.105 χ^2/NDF : 2057.0/4

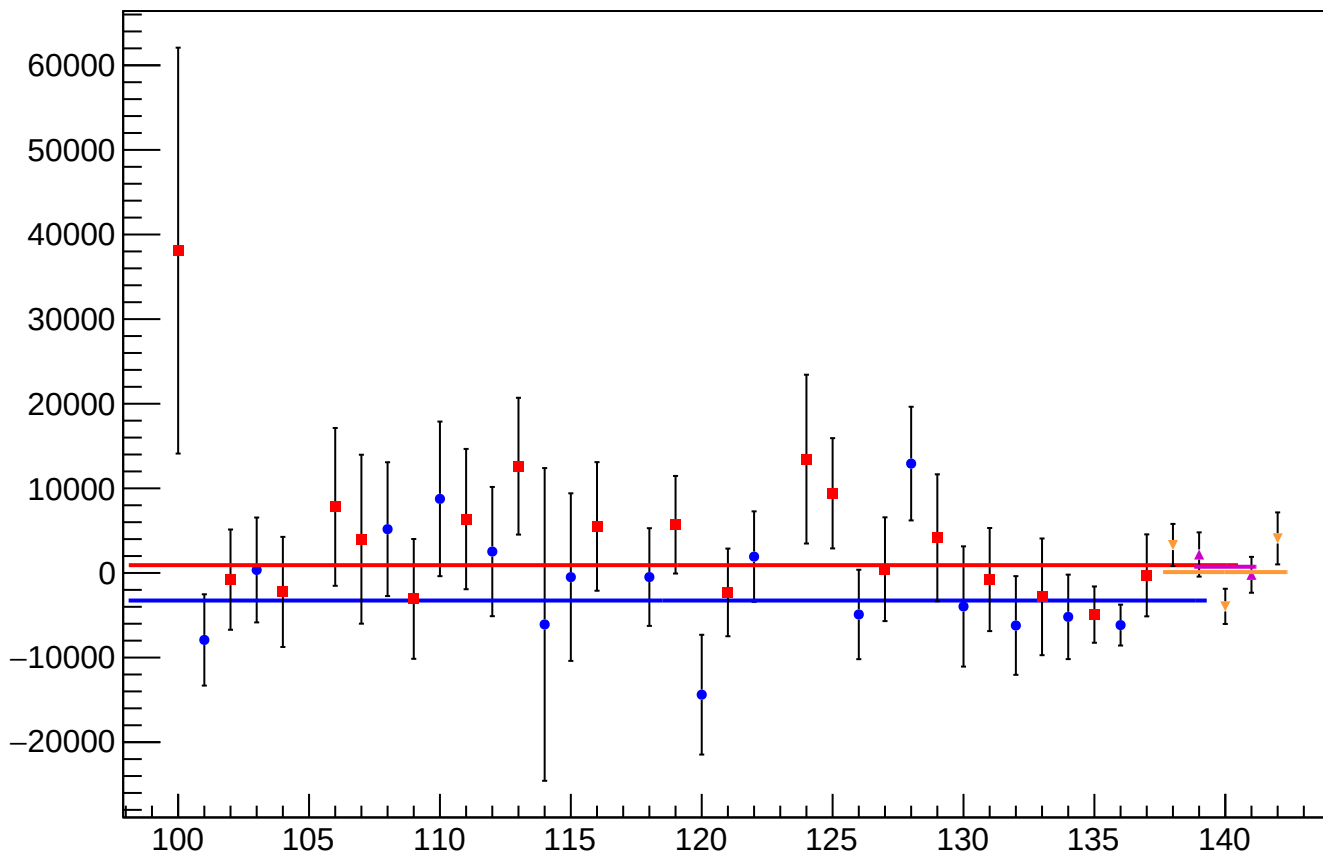
Right: 349.788+/-0.067 χ^2/NDF : 1637661.2/34

In: 331.246+/-0.080 χ^2/NDF :868259.7/17

Out: 333.650+/-0.079 χ^2/NDF :1007634.0/21

All: 332.472+/-0.056 χ^2/NDF : 1876351.0/39

asym_sam2_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -3258.828 ± 1384.137 $\chi^2/\text{NDF}: 16.0/15$

Left Out: 102.995 ± 1416.950 $\chi^2/\text{NDF}: 7.1/2$

Right Out: 921.200 ± 1460.725 $\chi^2/\text{NDF}: 14.6/18$

Left In: 734.058 ± 1646.666 $\chi^2/\text{NDF}: 0.5/1$

Left: 371.473 ± 1074.047 $\chi^2/\text{NDF}: 7.7/4$

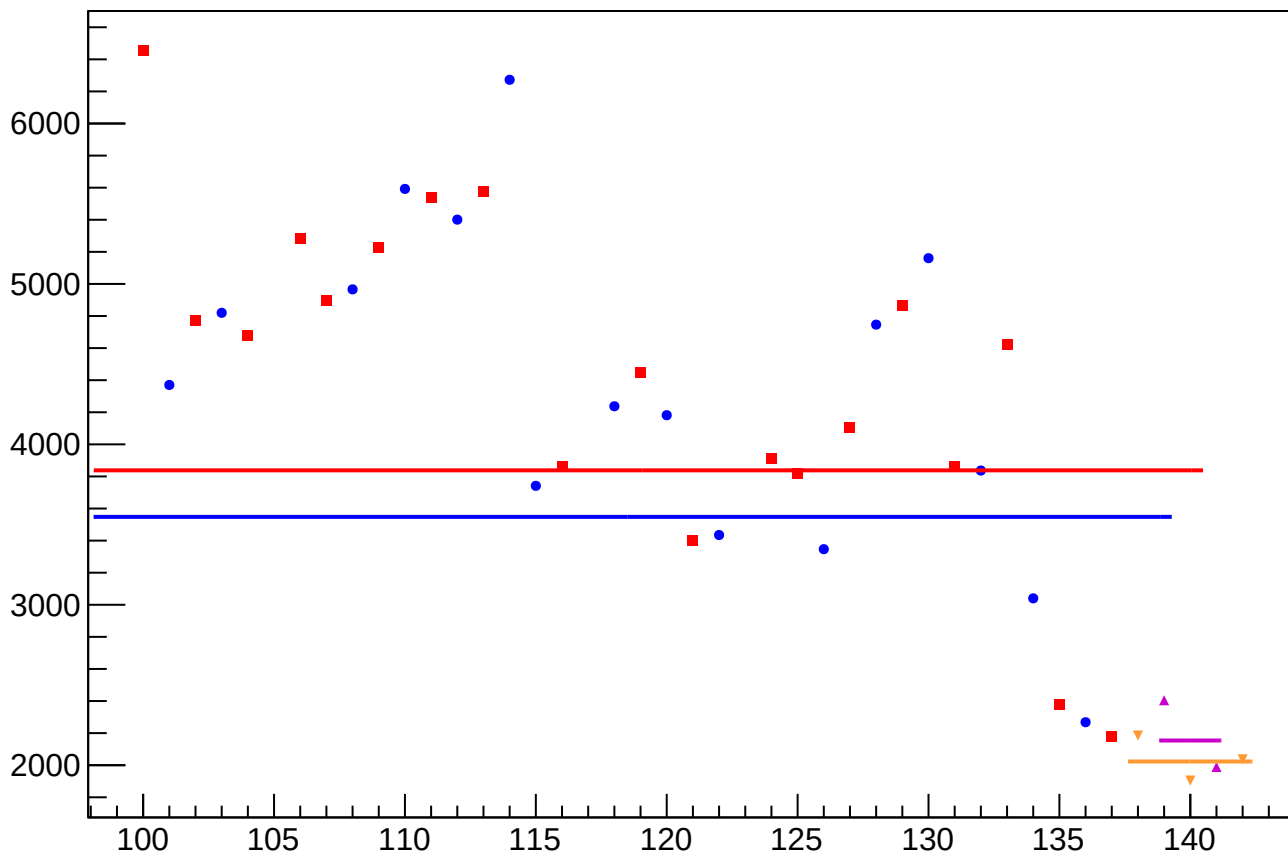
Right: -1281.264 ± 1004.718 $\chi^2/\text{NDF}: 35.0/34$

In: -1605.673 ± 1059.543 $\chi^2/\text{NDF}: 20.0/17$

Out: 499.654 ± 1017.059 $\chi^2/\text{NDF}: 21.9/21$

All: -509.955 ± 733.729 $\chi^2/\text{NDF}: 44.0/39$

asym_sam2_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3547.966+/-0.979 χ^2/NDF : 1258472.8/15

Left Out: 2023.081+/-1.002 χ^2/NDF : 14990.0/2

Right Out: 3837.965+/-1.033 χ^2/NDF : 1155821.5/18

Left In: 2154.014+/-1.164 χ^2/NDF : 30501.1/1

Left: 2078.784+/-0.759 χ^2/NDF : 52756.4/4

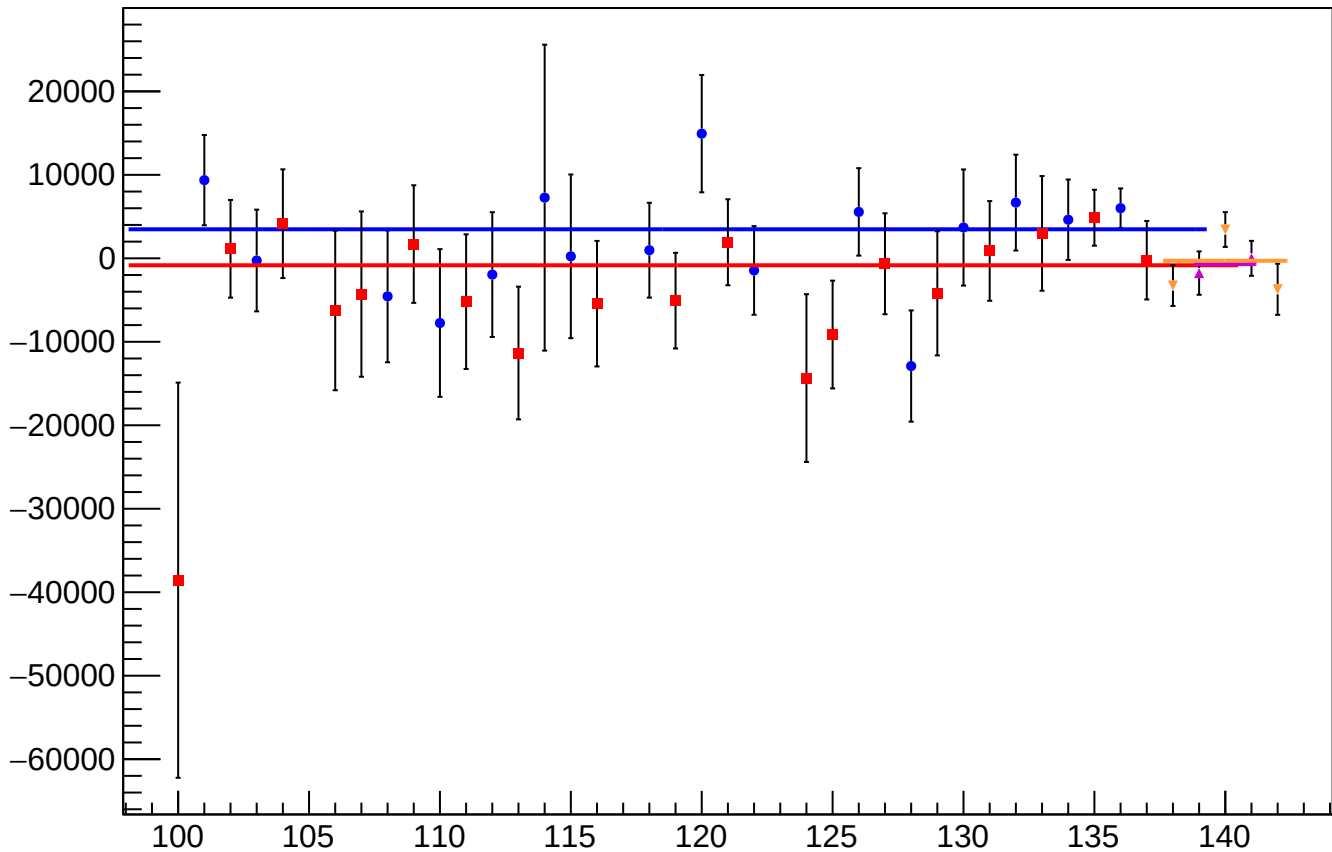
Right: 3685.164+/-0.710 χ^2/NDF : 2455829.5/34

In: 2970.835+/-0.749 χ^2/NDF : 2128809.1/17

Out: 2902.922+/-0.719 χ^2/NDF : 2761458.8/21

All: 2935.489+/-0.519 χ^2/NDF : 4894544.3/39

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3478.372 $\pm$ 1360.356 χ^2 /NDF: 16.3/15

Left Out: -290.396 $\pm$ 1409.398 χ^2 /NDF:5.9/2

Right Out: -832.583 $\pm$ 1449.649 χ^2 /NDF: 14.0/18

Left In: -696.941 $\pm$ 1629.790 χ^2 /NDF:0.3/1

Left: -464.342 $\pm$ 1066.066 χ^2 /NDF: 6.2/4

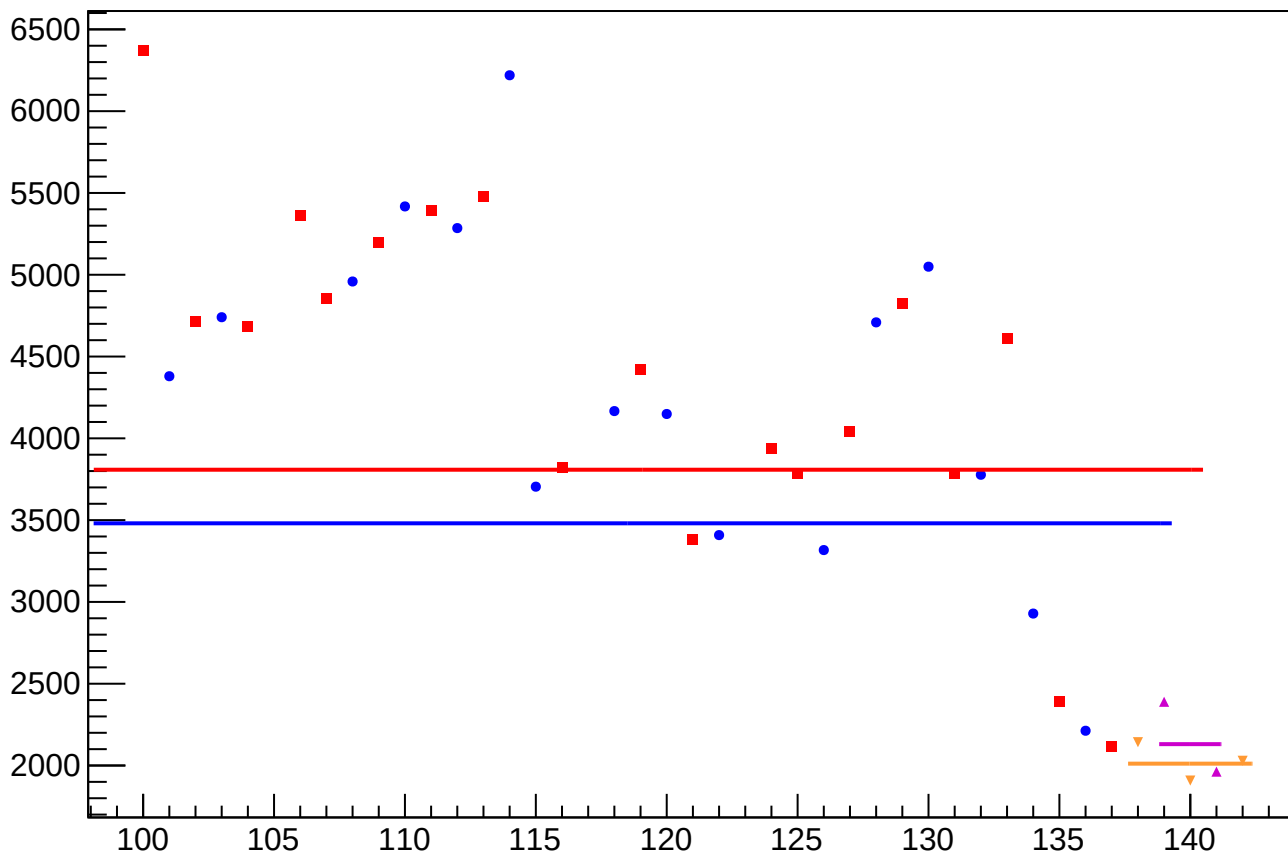
Right: 1459.744 $\pm$ 991.983 χ^2 /NDF: 35.1/34

In: 1763.912 $\pm$ 1044.361 χ^2 /NDF:20.5/17

Out: -553.858 $\pm$ 1010.525 χ^2 /NDF:20.0/21

All: 566.872 $\pm$ 726.217 χ^2 /NDF: 43.0/39

asym_sam2_rms vs Slug, Sign Corrected



Right In: 3480.559+/-0.962 χ^2/NDF : 1296641.6/15

Left Out: 2011.358+/-0.997 χ^2/NDF : 10713.2/2

Right Out: 3808.151+/-1.025 χ^2/NDF : 1147564.2/18

Left In: 2130.654+/-1.152 χ^2/NDF : 32789.4/1

Left: 2062.400+/-0.754 χ^2/NDF : 49633.4/4

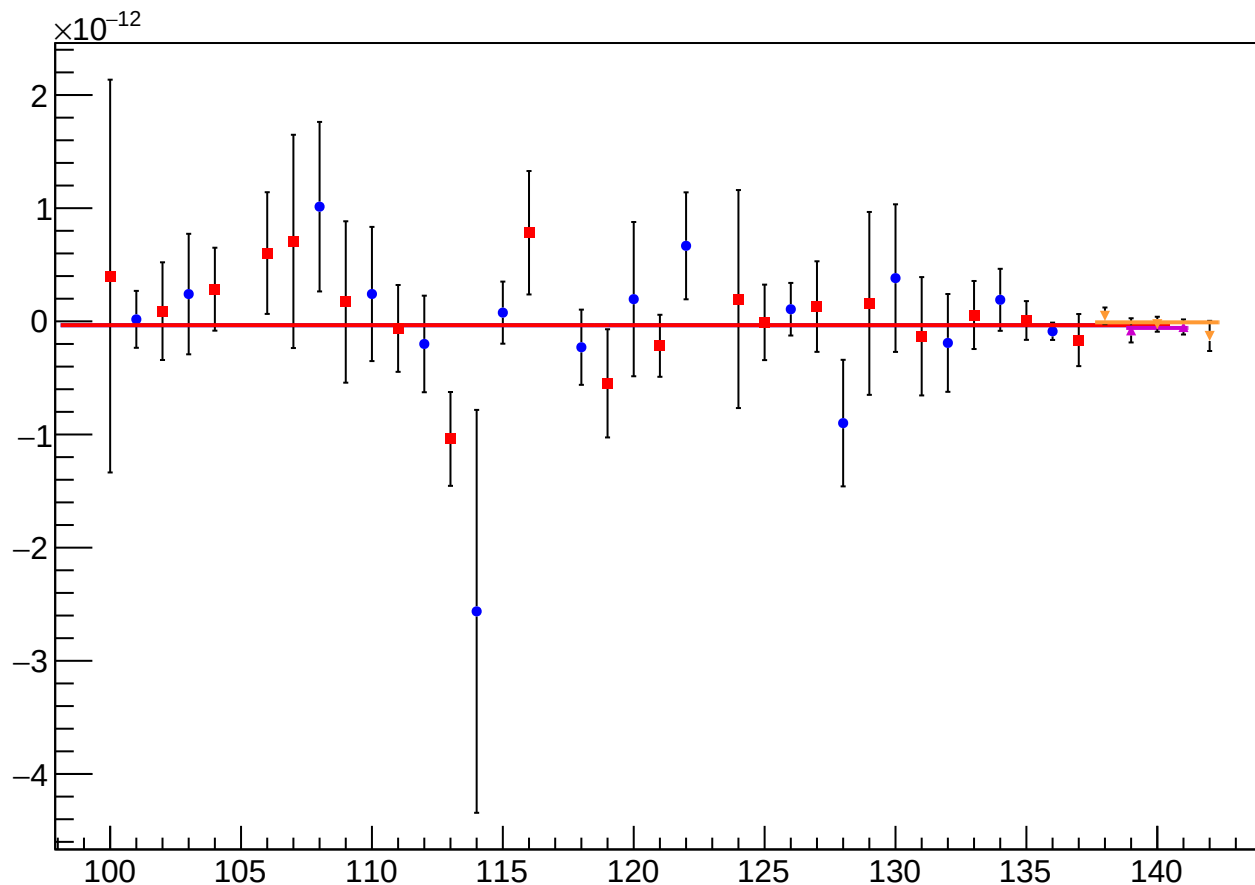
Right: 3633.956+/-0.701 χ^2/NDF : 2498515.1/34

In: 2926.263+/-0.738 χ^2/NDF : 2138098.8/17

Out: 2884.464+/-0.715 χ^2/NDF : 2737806.6/21

All: 2904.675+/-0.514 χ^2/NDF : 4877560.1/39

asym_sam2_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 11.9/15

Left Out: -0.000+/-0.000 χ^2 /NDF:1.5/2

Right Out: -0.000+/-0.000 χ^2 /NDF: 13.5/18

Left In: -0.000+/-0.000 χ^2 /NDF:0.1/1

Left: -0.000+/-0.000 χ^2 /NDF: 2.0/4

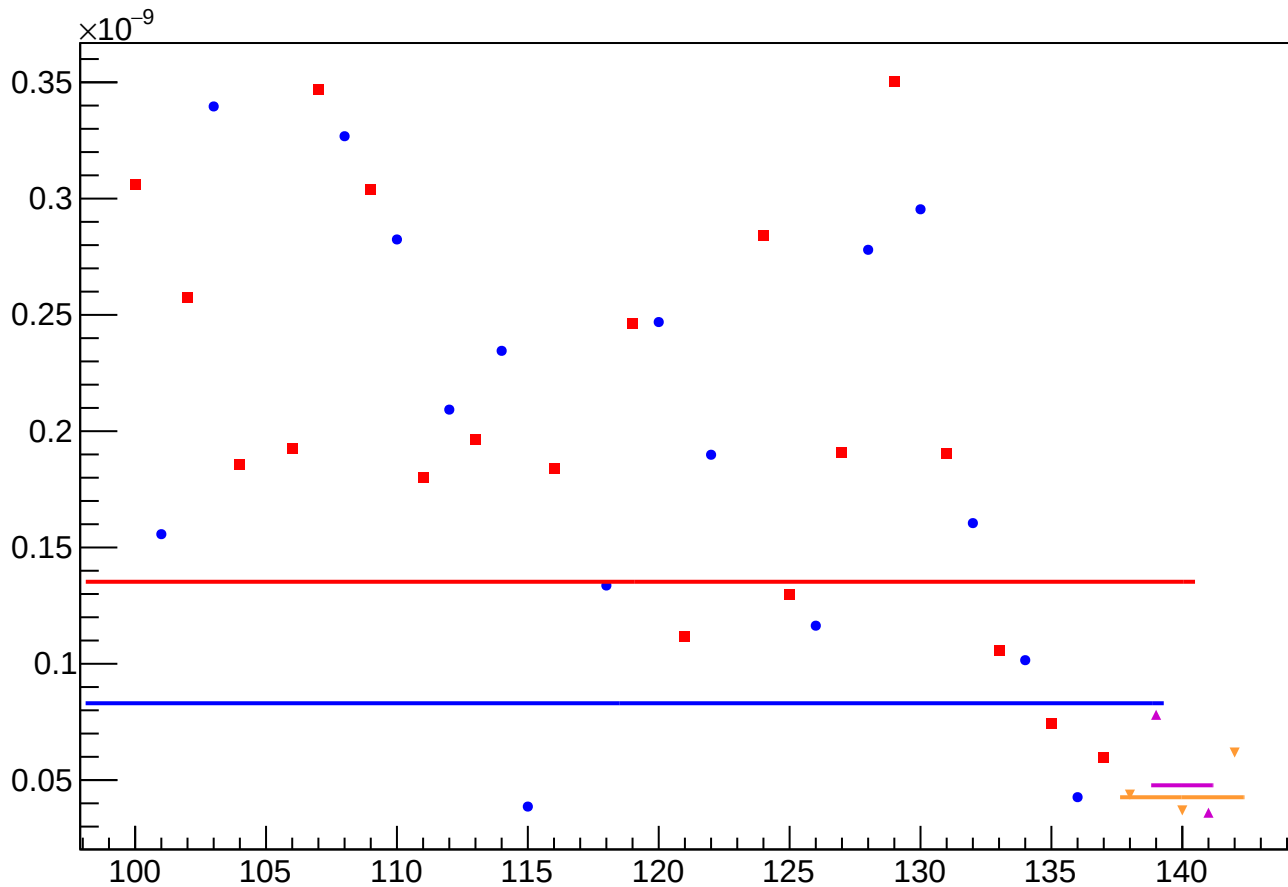
Right: -0.000+/-0.000 χ^2 /NDF: 25.5/34

In: -0.000+/-0.000 χ^2 /NDF:12.1/17

Out: -0.000+/-0.000 χ^2 /NDF:15.1/21

All: -0.000+/-0.000 χ^2 /NDF: 27.5/39

asym_sam2_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2702339.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 56740.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1401659.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 223047.2/1

Left: 0.000+/-0.000 χ^2/NDF : 289691.5/4

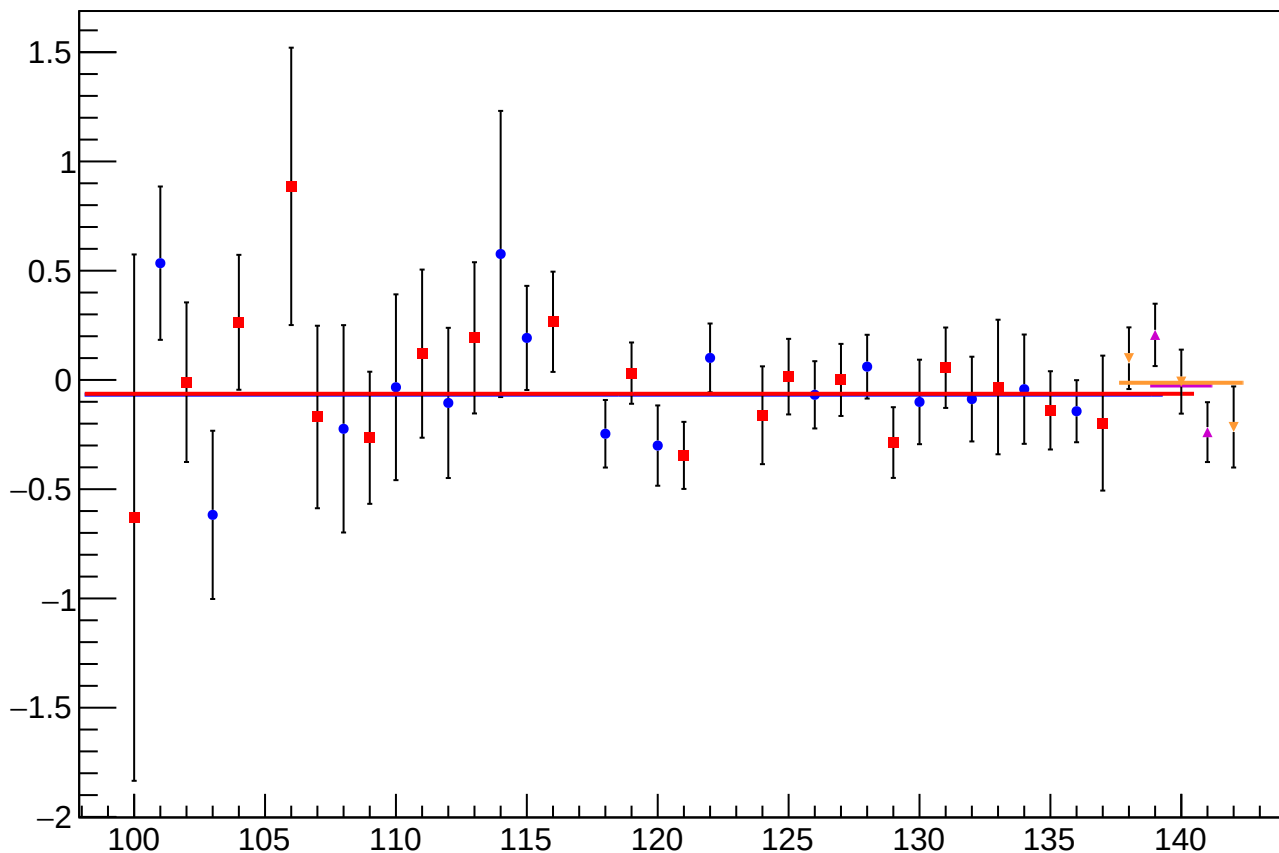
Right: 0.000+/-0.000 χ^2/NDF : 4605860.5/34

In: 0.000+/-0.000 χ^2/NDF : 3287528.4/17

Out: 0.000+/-0.000 χ^2/NDF : 3298109.2/21

All: 0.000+/-0.000 χ^2/NDF : 6585728.6/39

asym_sam2_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.067 ± 0.052 $\chi^2/\text{NDF}: 12.5/15$

Left Out: -0.013 ± 0.089 $\chi^2/\text{NDF}: 1.8/2$

Right Out: -0.063 ± 0.052 $\chi^2/\text{NDF}: 14.0/18$

Left In: -0.025 ± 0.099 $\chi^2/\text{NDF}: 5.1/1$

Left: -0.019 ± 0.066 $\chi^2/\text{NDF}: 6.9/4$

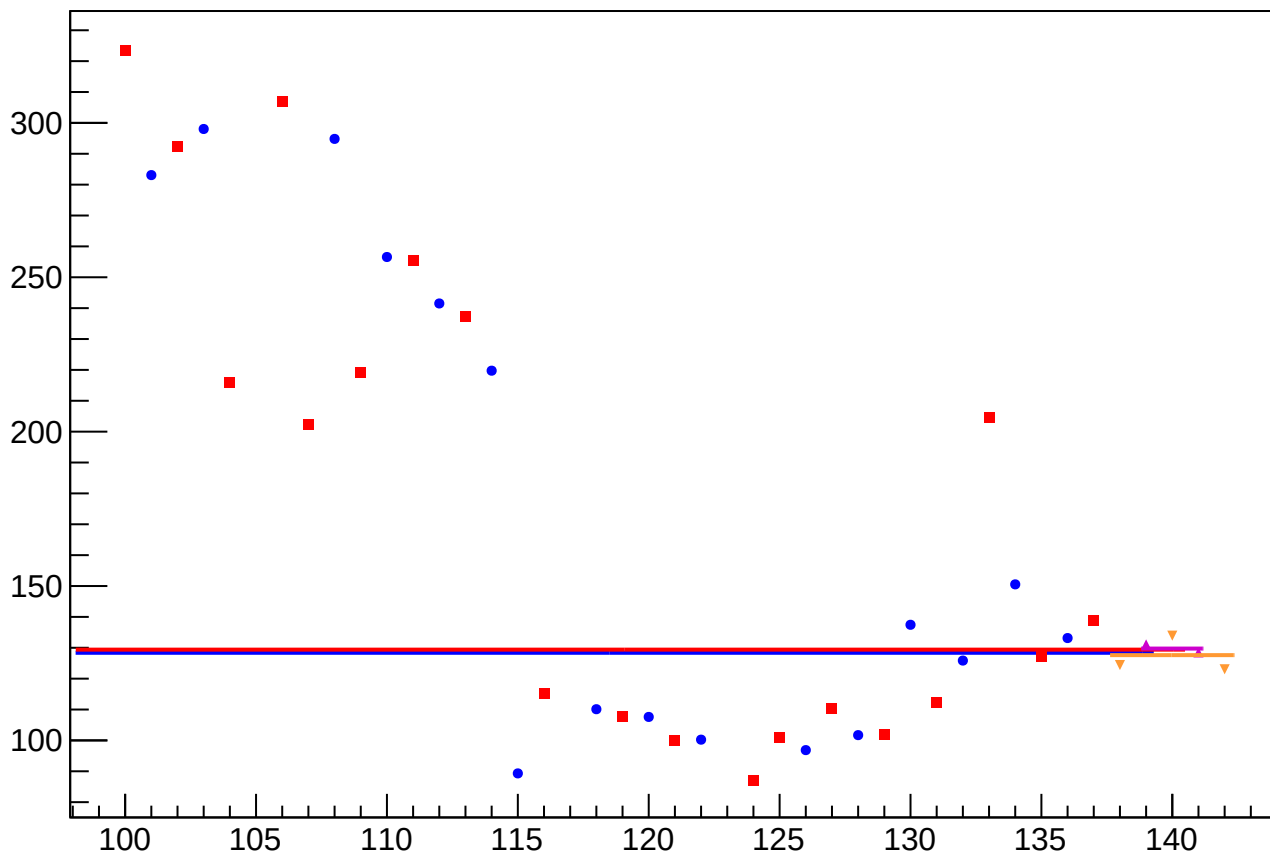
Right: -0.065 ± 0.037 $\chi^2/\text{NDF}: 26.5/34$

In: -0.058 ± 0.046 $\chi^2/\text{NDF}: 17.7/17$

Out: -0.051 ± 0.045 $\chi^2/\text{NDF}: 16.1/21$

All: -0.054 ± 0.032 $\chi^2/\text{NDF}: 33.8/39$

asym_sam2_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 128.380 $\pm$ 0.037 χ^2 /NDF: 1805078.6/15

Left Out: 127.617 $\pm$ 0.063 χ^2 /NDF:5961.1/2

Right Out: 129.399 $\pm$ 0.037 χ^2 /NDF: 1888271.6/18

Left In: 129.742 $\pm$ 0.070 χ^2 /NDF:344.5/1

Left: 128.571 $\pm$ 0.047 χ^2 /NDF: 6815.5/4

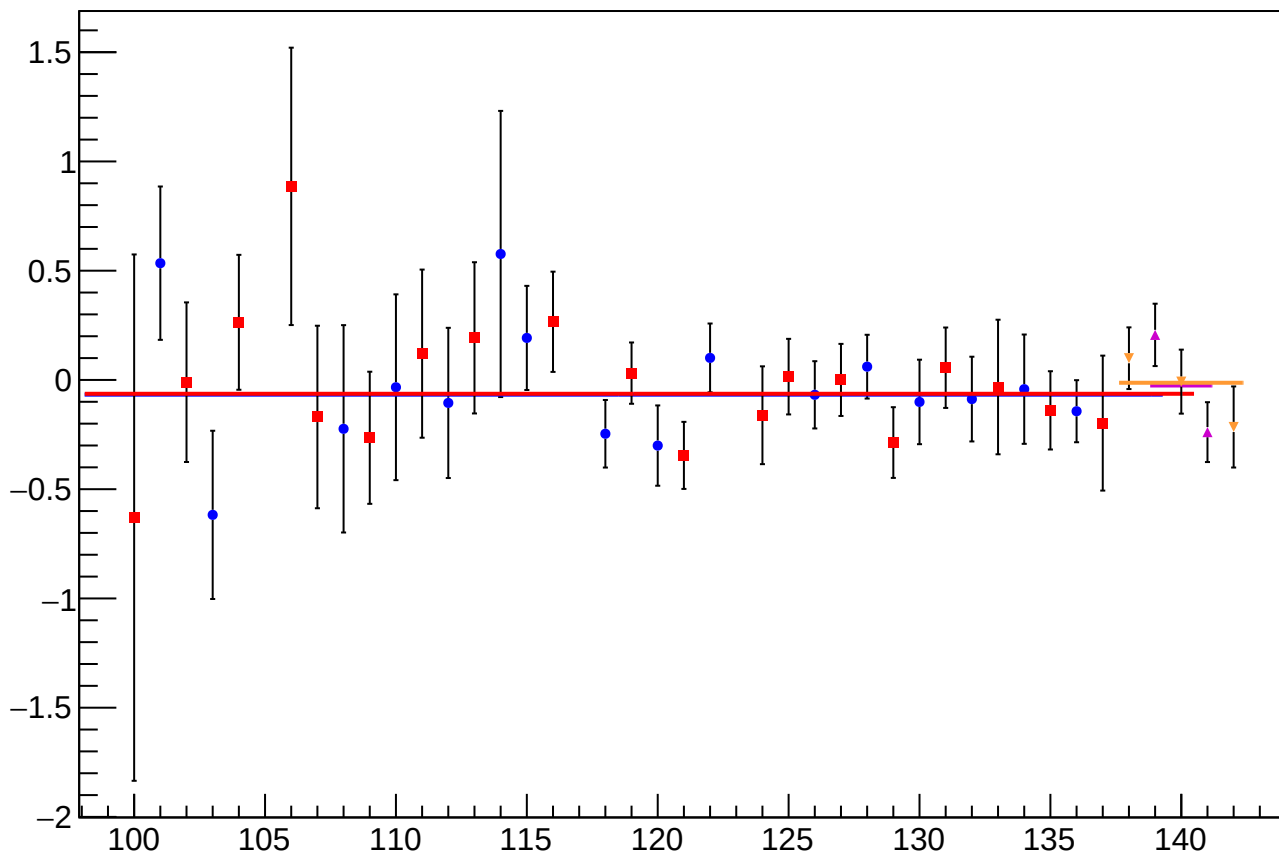
Right: 128.891 $\pm$ 0.026 χ^2 /NDF: 3693738.9/34

In: 128.673 $\pm$ 0.032 χ^2 /NDF:1805721.5/17

Out: 128.952 $\pm$ 0.032 χ^2 /NDF:1894830.8/21

All: 128.816 $\pm$ 0.023 χ^2 /NDF: 3700590.2/39

asym_sam2_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.067 ± 0.052 $\chi^2/\text{NDF}: 12.5/15$

Left Out: -0.013 ± 0.089 $\chi^2/\text{NDF}: 1.8/2$

Right Out: -0.063 ± 0.052 $\chi^2/\text{NDF}: 14.0/18$

Left In: -0.025 ± 0.099 $\chi^2/\text{NDF}: 5.1/1$

Left: -0.019 ± 0.066 $\chi^2/\text{NDF}: 6.9/4$

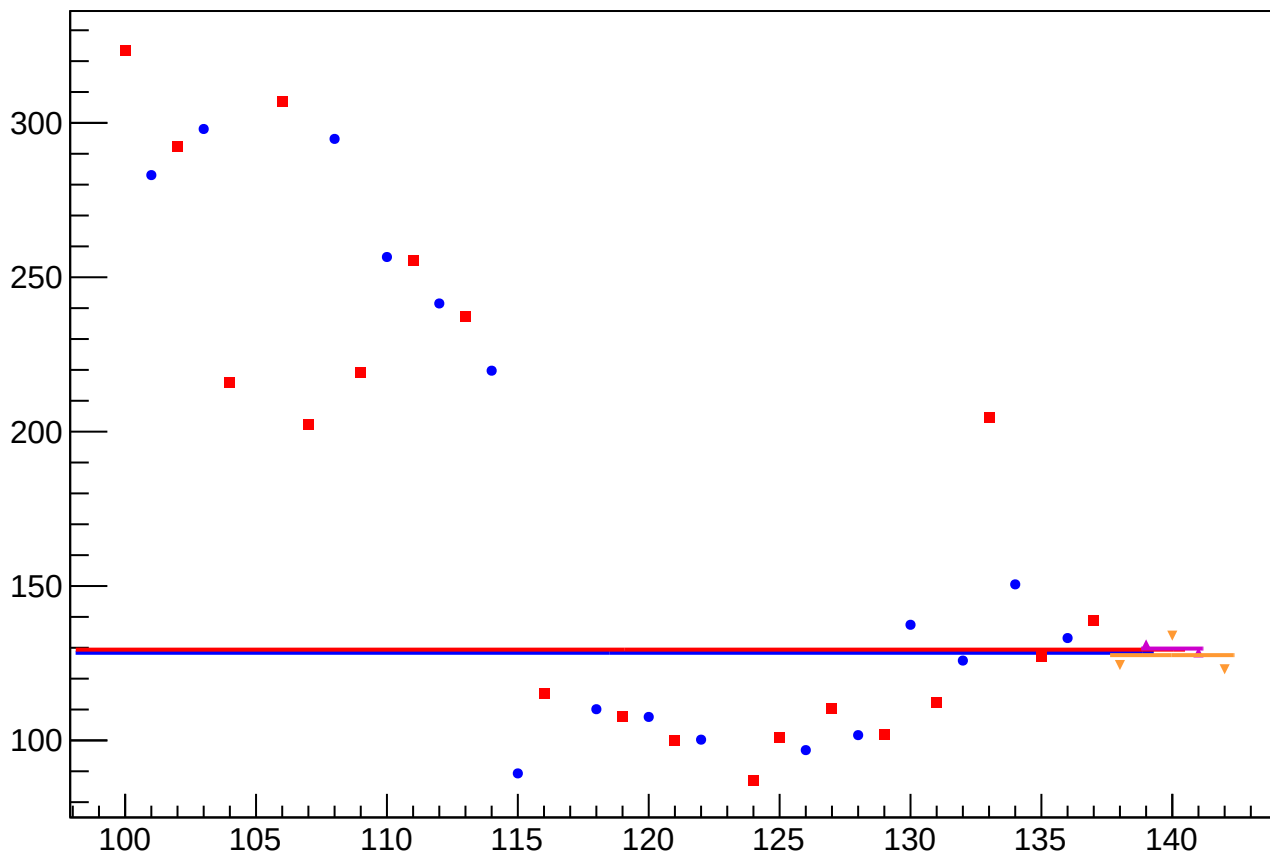
Right: -0.065 ± 0.037 $\chi^2/\text{NDF}: 26.5/34$

In: -0.058 ± 0.046 $\chi^2/\text{NDF}: 17.7/17$

Out: -0.051 ± 0.045 $\chi^2/\text{NDF}: 16.1/21$

All: -0.054 ± 0.032 $\chi^2/\text{NDF}: 33.8/39$

asym_sam2_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 128.380 $\pm$ 0.037 χ^2 /NDF: 1805078.6/15

Left Out: 127.617 $\pm$ 0.063 χ^2 /NDF:5961.1/2

Right Out: 129.399 $\pm$ 0.037 χ^2 /NDF: 1888271.6/18

Left In: 129.742 $\pm$ 0.070 χ^2 /NDF:344.5/1

Left: 128.571 $\pm$ 0.047 χ^2 /NDF: 6815.5/4

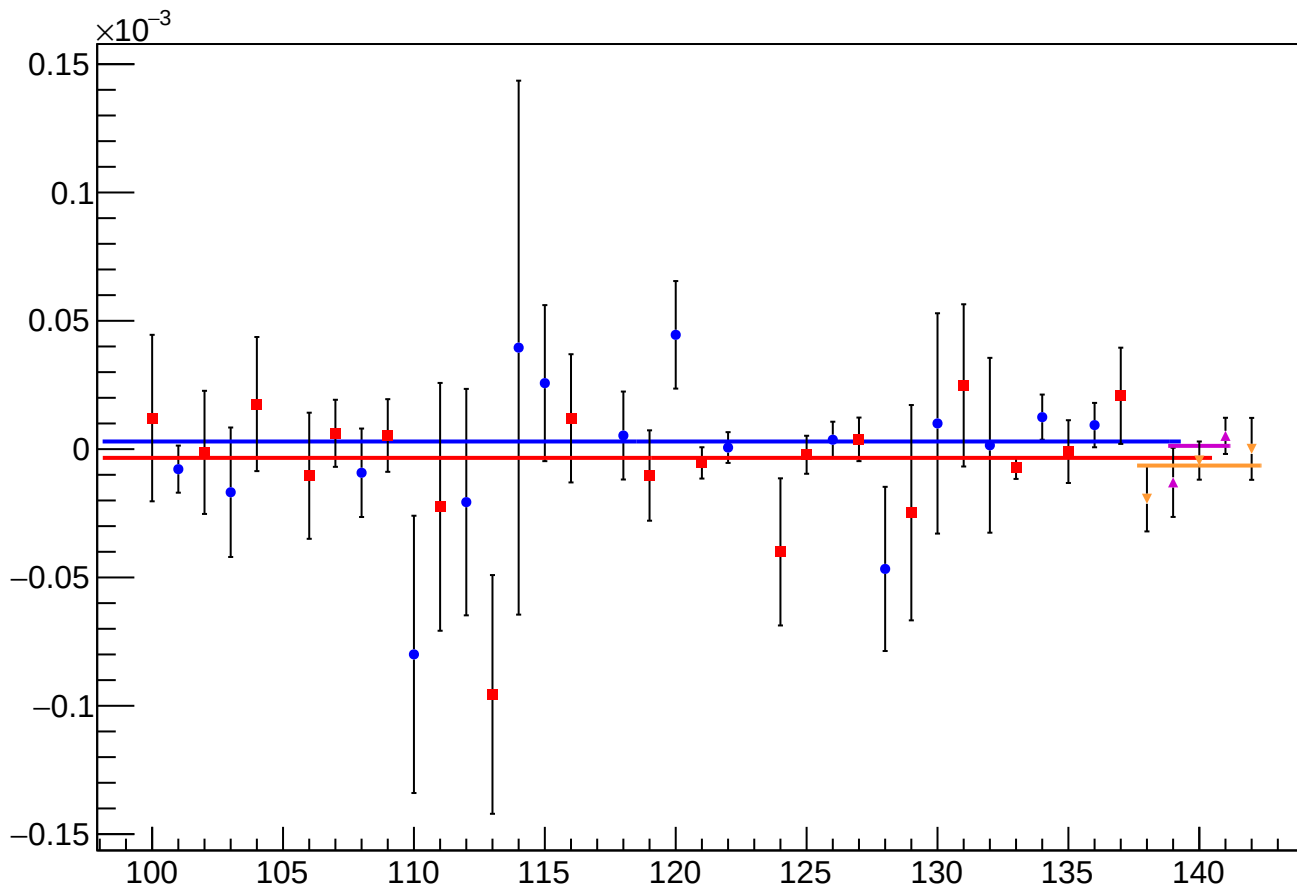
Right: 128.891 $\pm$ 0.026 χ^2 /NDF: 3693738.9/34

In: 128.673 $\pm$ 0.032 χ^2 /NDF:1805721.5/17

Out: 128.952 $\pm$ 0.032 χ^2 /NDF:1894830.8/21

All: 128.816 $\pm$ 0.023 χ^2 /NDF: 3700590.2/39

asym_sam2_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.1/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:1.4/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 12.6/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:1.4/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 3.6/4

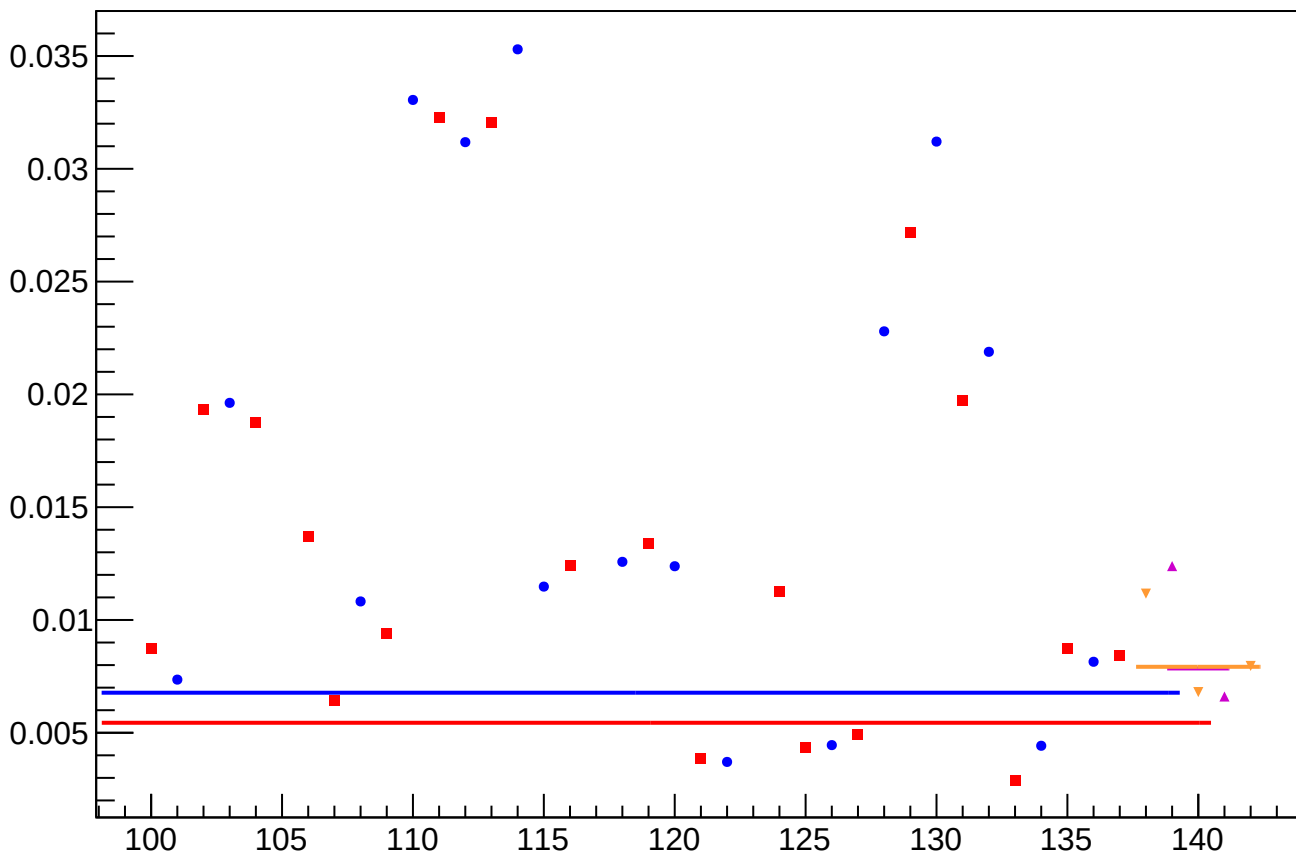
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 29.1/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:15.6/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:14.2/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 33.0/39

asym_sam2_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000

χ^2/NDF : 4772275.3/15

Left Out: 0.008+/-0.000

χ^2/NDF :175138.8/2

Right Out: 0.005+/-0.000

χ^2/NDF : 5572364.1/18

Left In: 0.008+/-0.000

χ^2/NDF :288973.5/1

Left: 0.008+/-0.000

χ^2/NDF : 464266.2/4

Right: 0.006+/-0.000

χ^2/NDF : 10558524.8/34

In: 0.007+/-0.000

χ^2/NDF :5108515.1/17

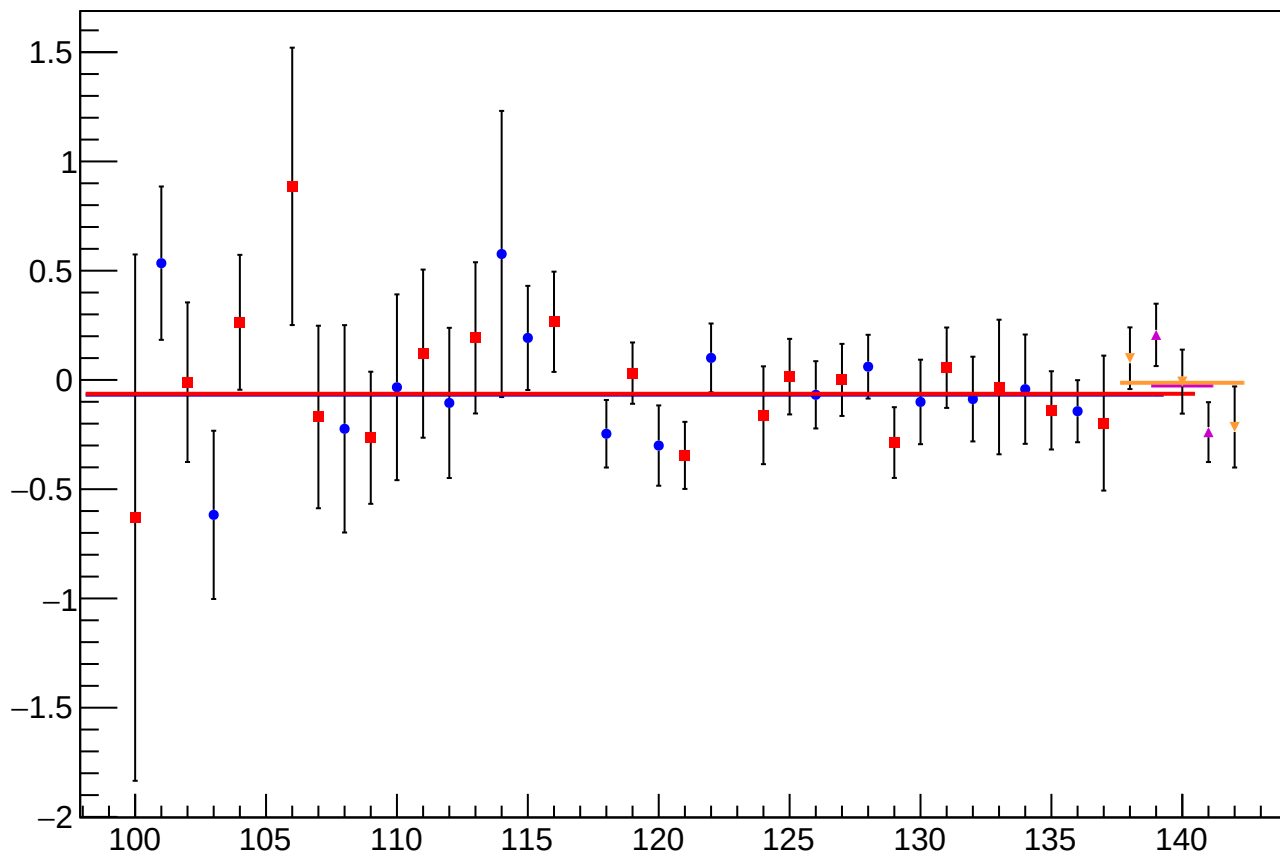
Out: 0.006+/-0.000

χ^2/NDF :6064227.8/21

All: 0.006+/-0.000

χ^2/NDF : 11359285.9/39

asym_sam2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.067 ± 0.052 χ^2/NDF : 12.5/15

Left Out: -0.013 ± 0.089 χ^2/NDF : 1.8/2

Right Out: -0.063 ± 0.052 χ^2/NDF : 14.0/18

Left In: -0.025 ± 0.099 χ^2/NDF : 5.1/1

Left: -0.019 ± 0.066 χ^2/NDF : 6.9/4

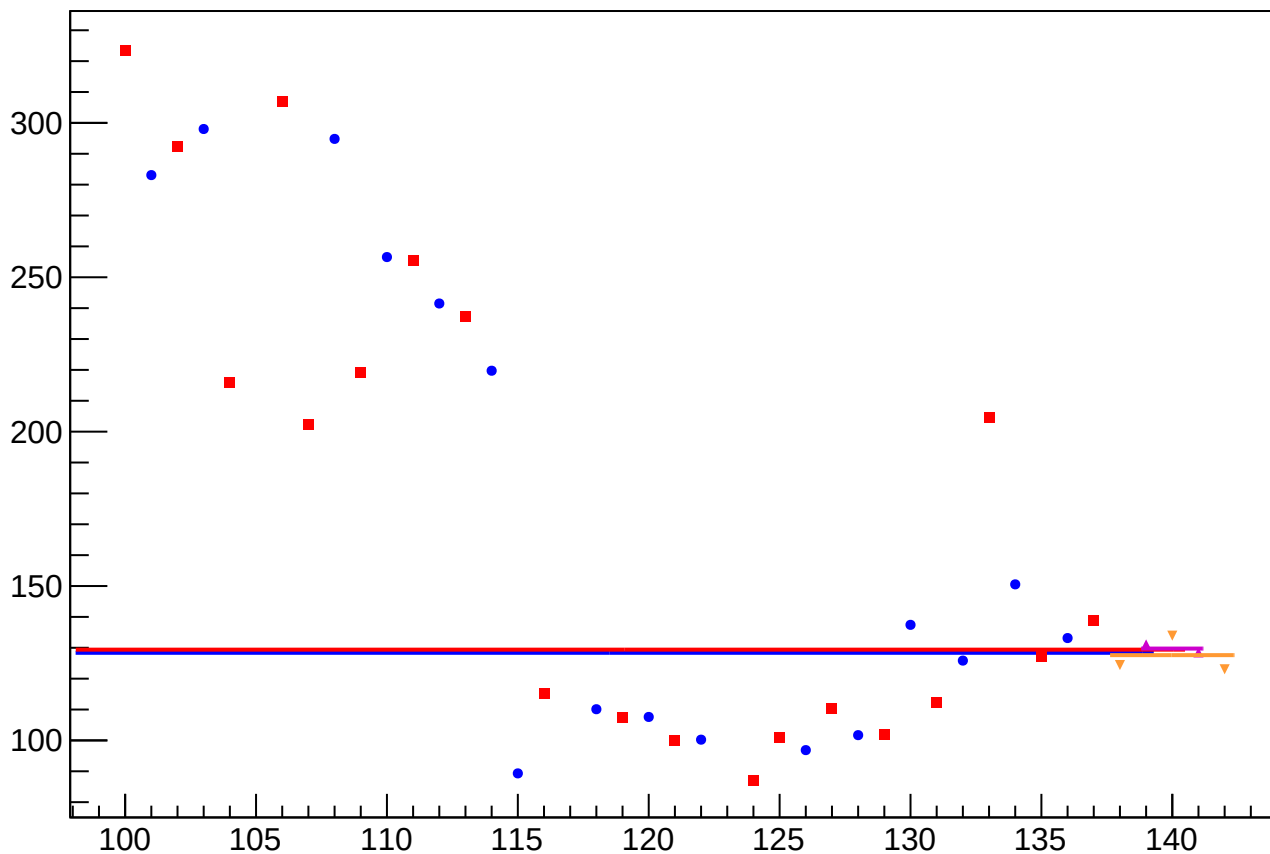
Right: -0.065 ± 0.037 χ^2/NDF : 26.5/34

In: -0.058 ± 0.046 χ^2/NDF : 17.7/17

Out: -0.051 ± 0.045 χ^2/NDF : 16.1/21

All: -0.054 ± 0.032 χ^2/NDF : 33.8/39

asym_sam2_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 128.377 $\pm$ 0.037 χ^2 /NDF: 1805026.7/15

Left Out: 127.617 $\pm$ 0.063 χ^2 /NDF:5962.7/2

Right Out: 129.396 $\pm$ 0.036 χ^2 /NDF: 1888272.8/18

Left In: 129.743 $\pm$ 0.070 χ^2 /NDF:344.0/1

Left: 128.571 $\pm$ 0.047 χ^2 /NDF: 6816.8/4

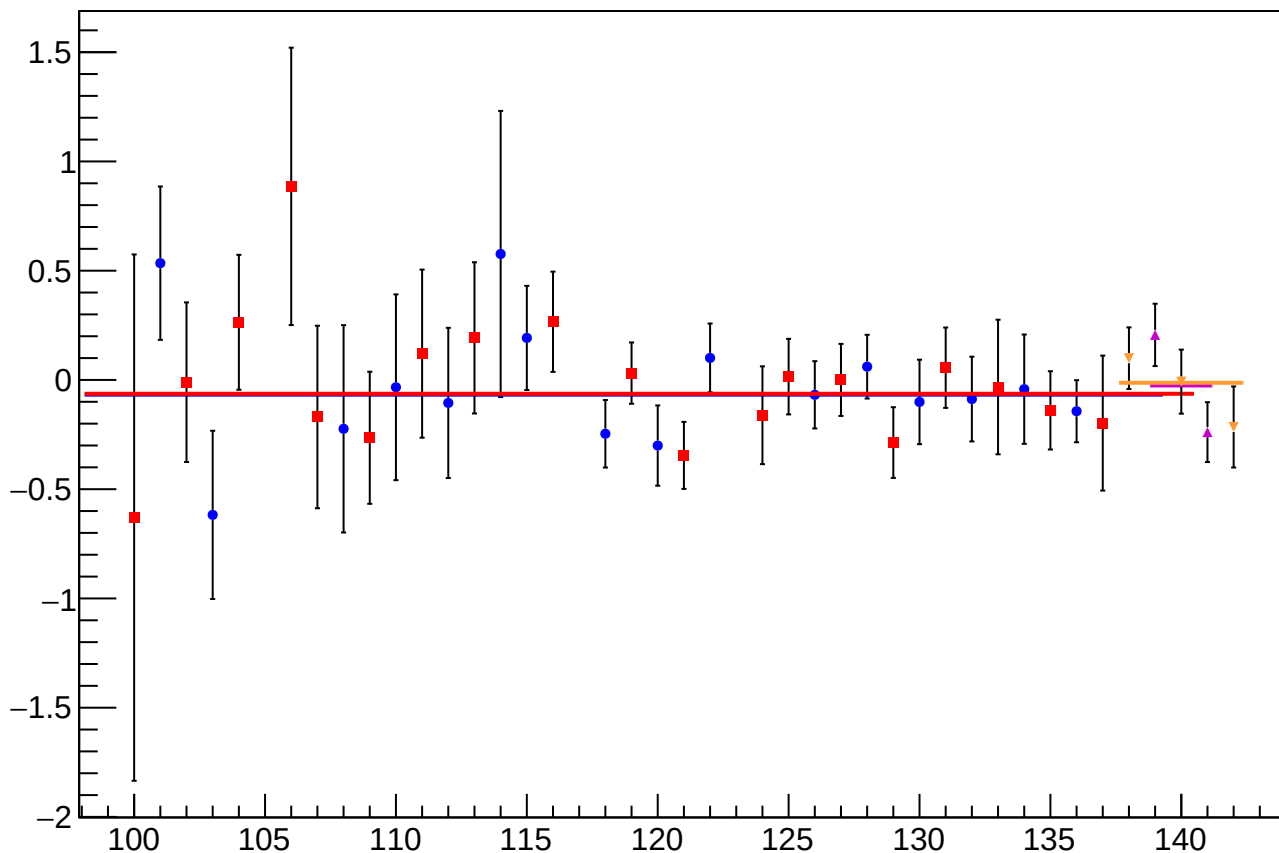
Right: 128.888 $\pm$ 0.026 χ^2 /NDF: 3693688.1/34

In: 128.671 $\pm$ 0.032 χ^2 /NDF:1805670.4/17

Out: 128.949 $\pm$ 0.032 χ^2 /NDF:1894831.9/21

All: 128.814 $\pm$ 0.023 χ^2 /NDF: 3700540.1/39

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.067 ± 0.052 χ^2/NDF : 12.5/15

Left Out: -0.013 ± 0.089 χ^2/NDF : 1.8/2

Right Out: -0.063 ± 0.052 χ^2/NDF : 14.0/18

Left In: -0.025 ± 0.099 χ^2/NDF : 5.1/1

Left: -0.019 ± 0.066 χ^2/NDF : 6.9/4

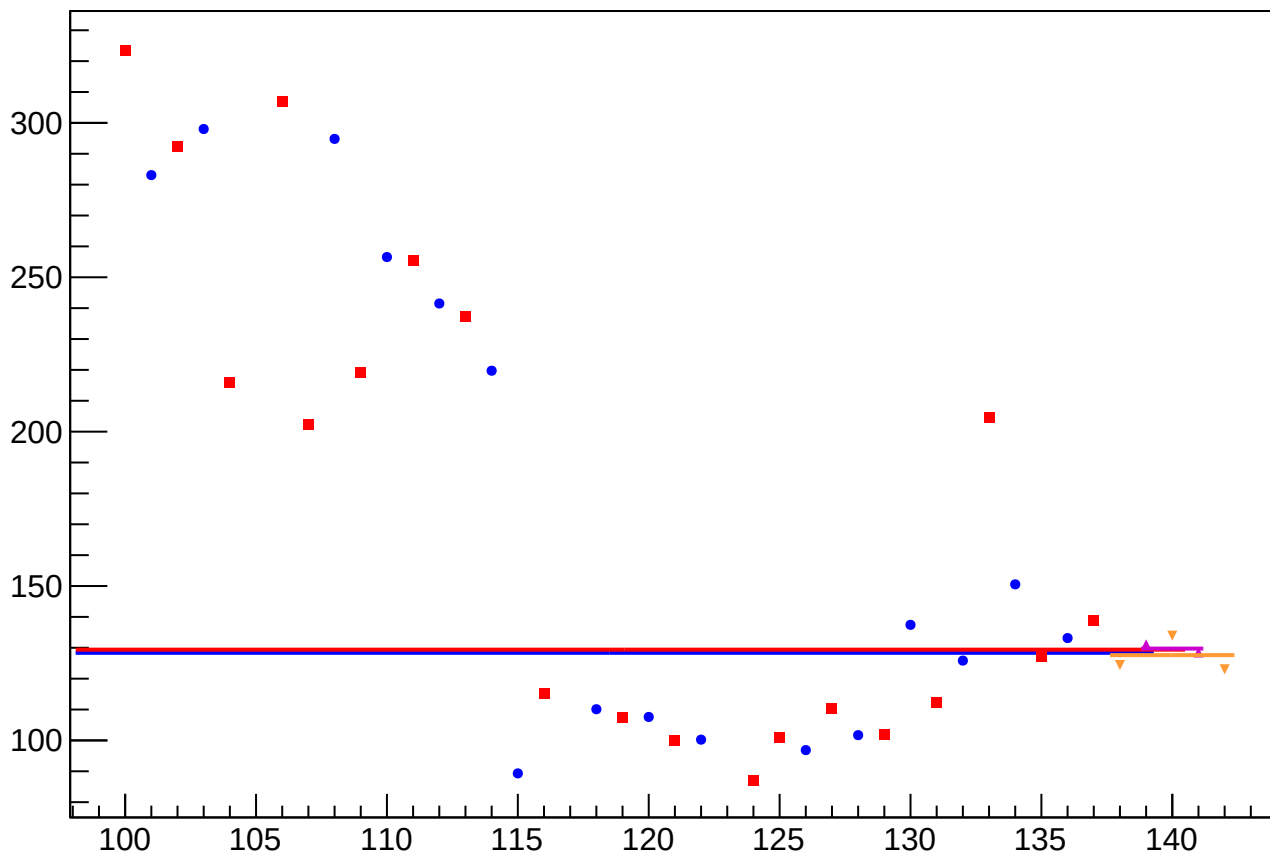
Right: -0.065 ± 0.037 χ^2/NDF : 26.5/34

In: -0.058 ± 0.046 χ^2/NDF : 17.7/17

Out: -0.051 ± 0.045 χ^2/NDF : 16.1/21

All: -0.054 ± 0.032 χ^2/NDF : 33.8/39

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 128.377 $\pm$ 0.037 χ^2 /NDF: 1805026.7/15

Left Out: 127.617 $\pm$ 0.063 χ^2 /NDF:5962.7/2

Right Out: 129.396 $\pm$ 0.036 χ^2 /NDF: 1888272.8/18

Left In: 129.743 $\pm$ 0.070 χ^2 /NDF:344.0/1

Left: 128.571 $\pm$ 0.047 χ^2 /NDF: 6816.8/4

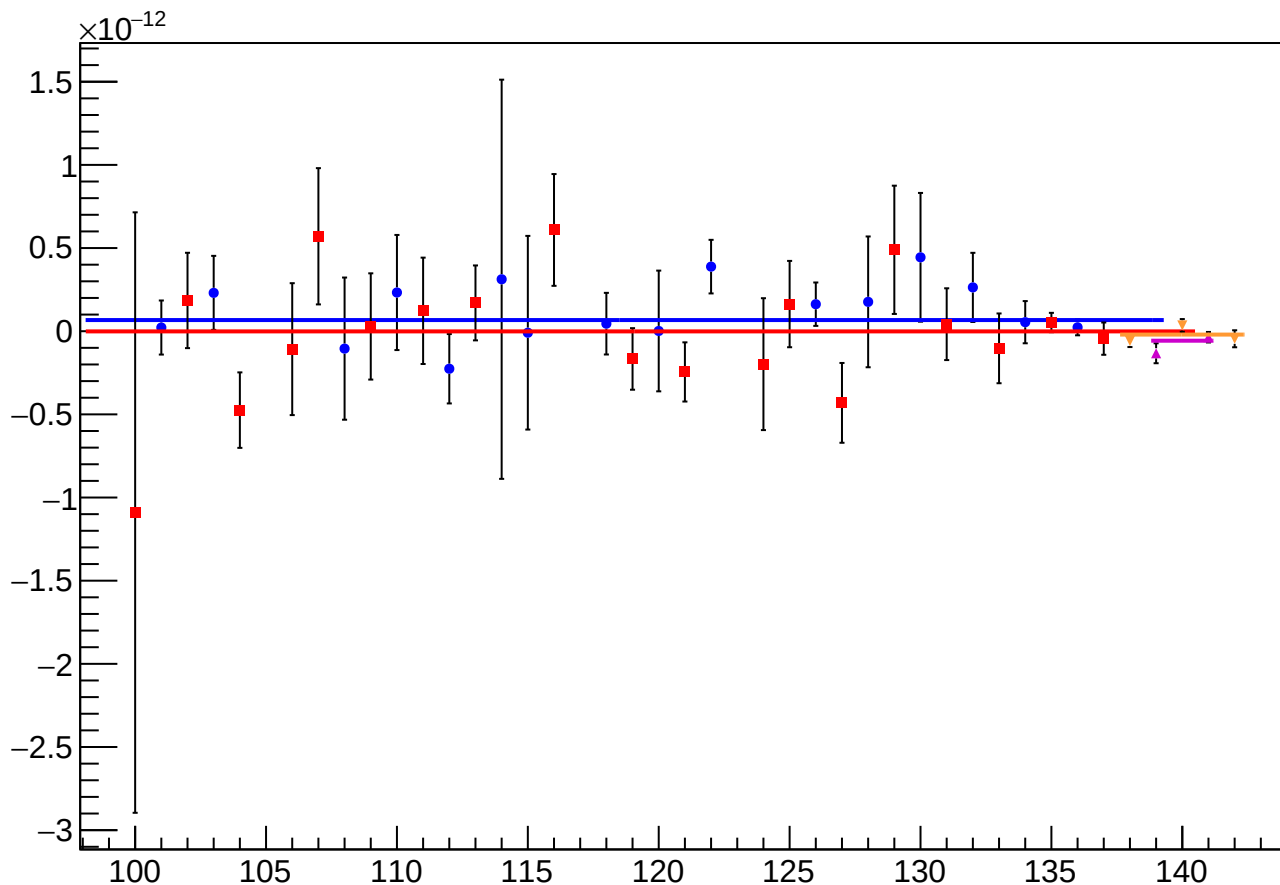
Right: 128.888 $\pm$ 0.026 χ^2 /NDF: 3693688.1/34

In: 128.671 $\pm$ 0.032 χ^2 /NDF:1805670.4/17

Out: 128.949 $\pm$ 0.032 χ^2 /NDF:1894831.9/21

All: 128.814 $\pm$ 0.023 χ^2 /NDF: 3700540.1/39

asym_sam2_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.4/2

Right Out: -0.000+/-0.000 χ^2/NDF : 20.7/18

Left In: -0.000+/-0.000 χ^2/NDF : 2.0/1

Left: -0.000+/-0.000 χ^2/NDF : 6.4/4

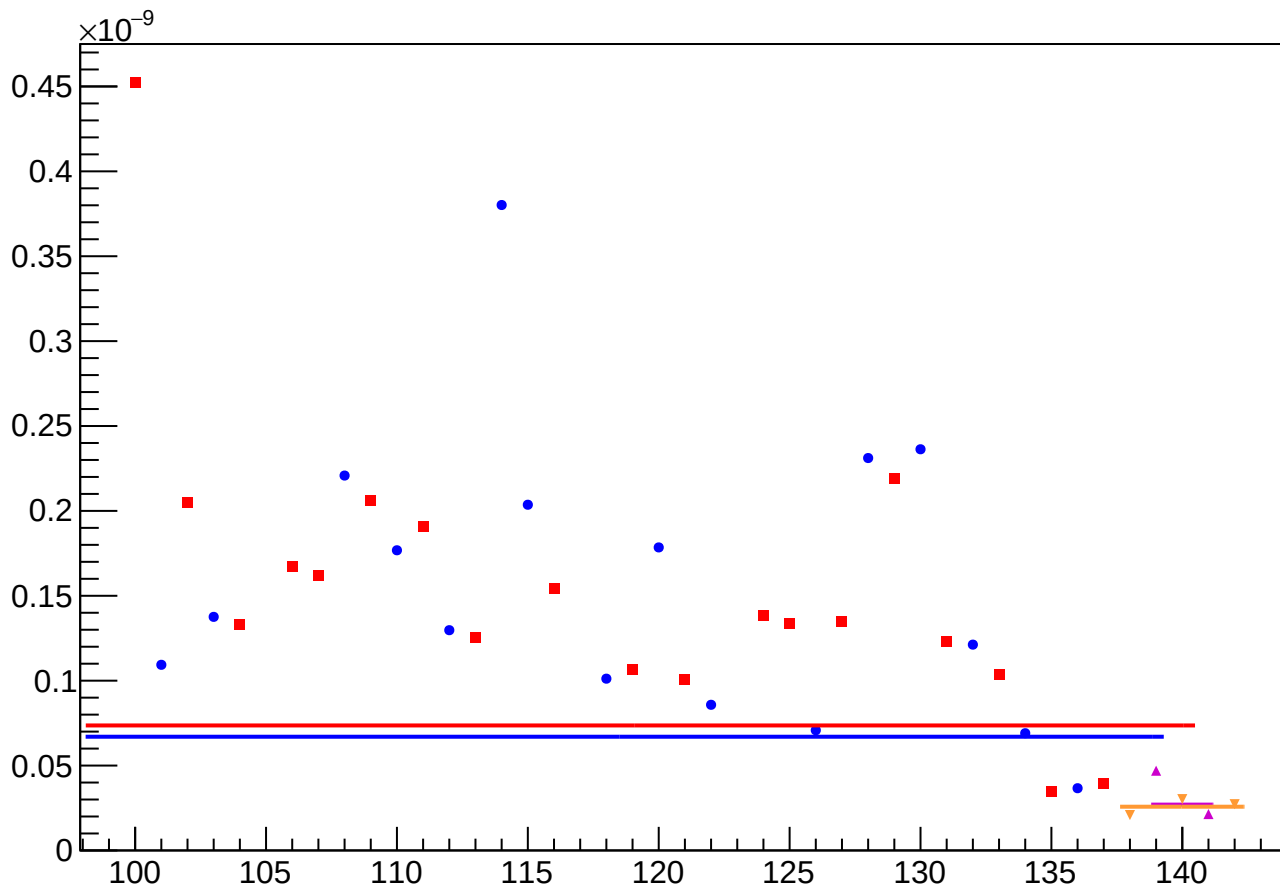
Right: 0.000+/-0.000 χ^2/NDF : 32.7/34

In: -0.000+/-0.000 χ^2/NDF : 19.8/17

Out: -0.000+/-0.000 χ^2/NDF : 24.2/21

All: -0.000+/-0.000 χ^2/NDF : 44.0/39

asym_sam2_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3180725.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 64425.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3653663.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 284070.1/1

Left: 0.000+/-0.000 χ^2/NDF : 350760.6/4

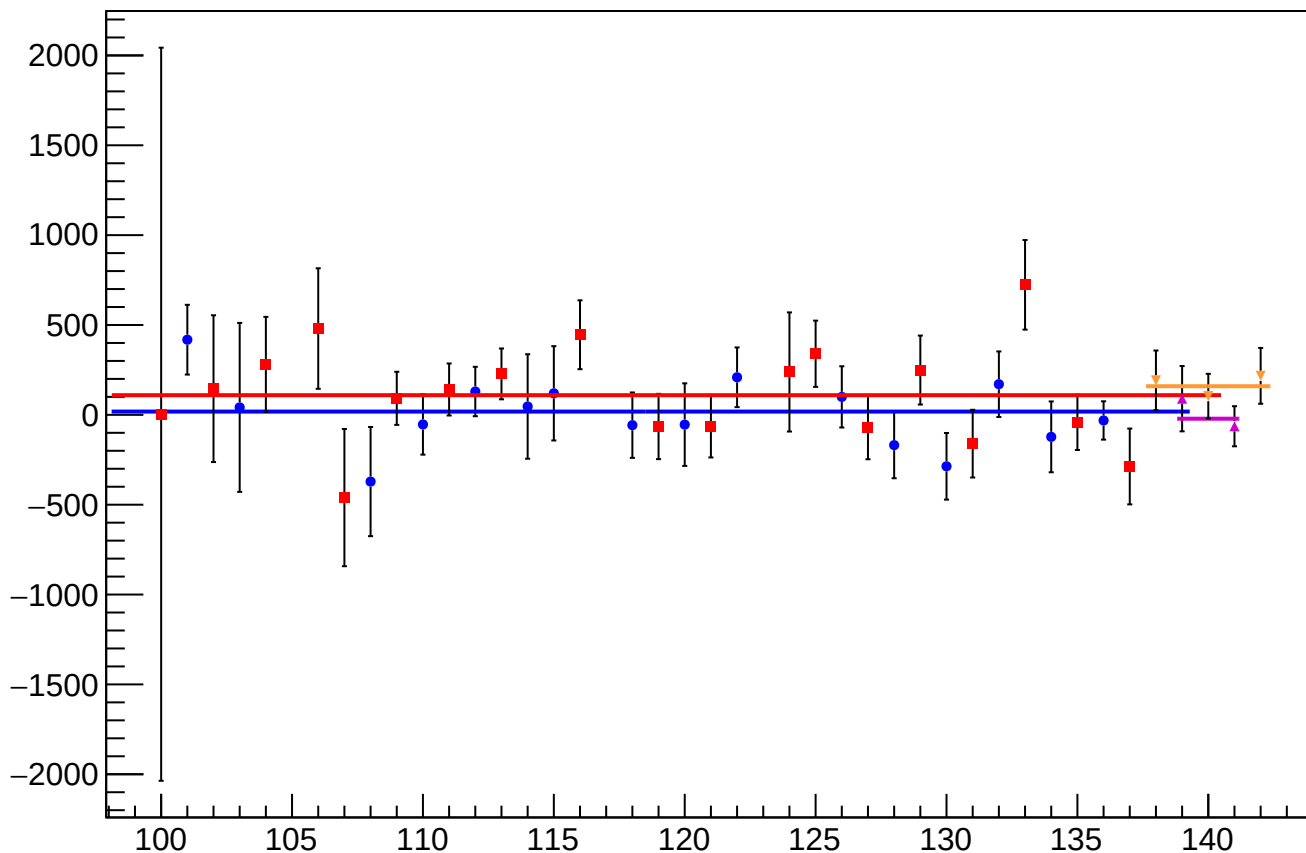
Right: 0.000+/-0.000 χ^2/NDF : 6865290.4/34

In: 0.000+/-0.000 χ^2/NDF : 4998103.4/17

Out: 0.000+/-0.000 χ^2/NDF : 5892828.0/21

All: 0.000+/-0.000 χ^2/NDF : 10919769.9/39

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.204 $\pm$ 45.704 χ^2 /NDF: 13.9/15

Left Out: 159.257 $\pm$ 83.764 χ^2 /NDF: 0.4/2

Right Out: 109.432 $\pm$ 45.825 χ^2 /NDF: 25.5/18

Left In: -21.460 $\pm$ 95.059 χ^2 /NDF: 0.5/1

Left: 80.268 $\pm$ 62.846 χ^2 /NDF: 2.9/4

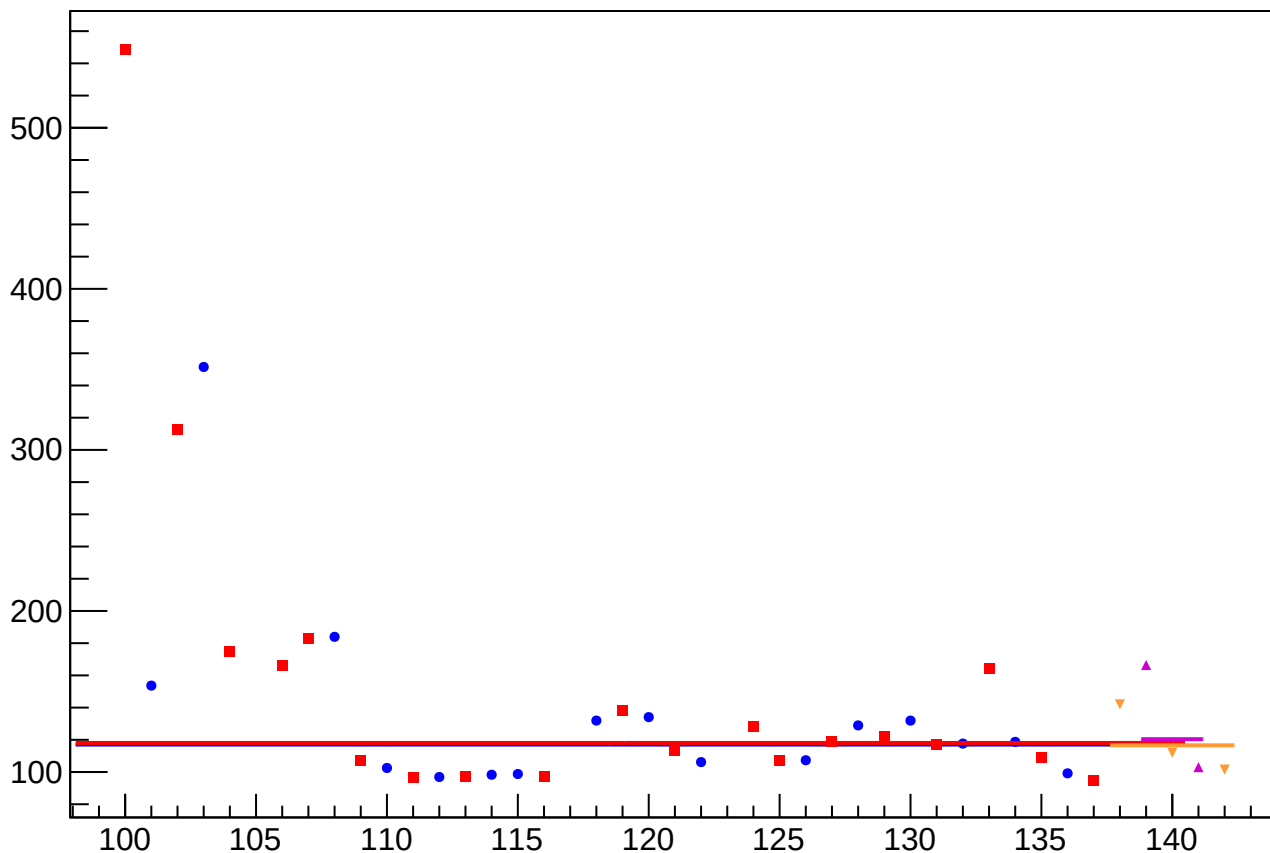
Right: 63.698 $\pm$ 32.360 χ^2 /NDF: 41.3/34

In: 10.757 $\pm$ 41.190 χ^2 /NDF: 14.5/17

Out: 120.909 $\pm$ 40.202 χ^2 /NDF: 26.1/21

All: 67.171 $\pm$ 28.770 χ^2 /NDF: 44.3/39

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 117.063 $\pm$ 0.032 χ^2 /NDF: 858400.8/15

Left Out: 116.589 $\pm$ 0.059 χ^2 /NDF: 68470.5/2

Right Out: 118.057 $\pm$ 0.032 χ^2 /NDF: 990748.0/18

Left In: 120.376 $\pm$ 0.067 χ^2 /NDF: 177044.0/1

Left: 118.244 $\pm$ 0.044 χ^2 /NDF: 247301.2/4

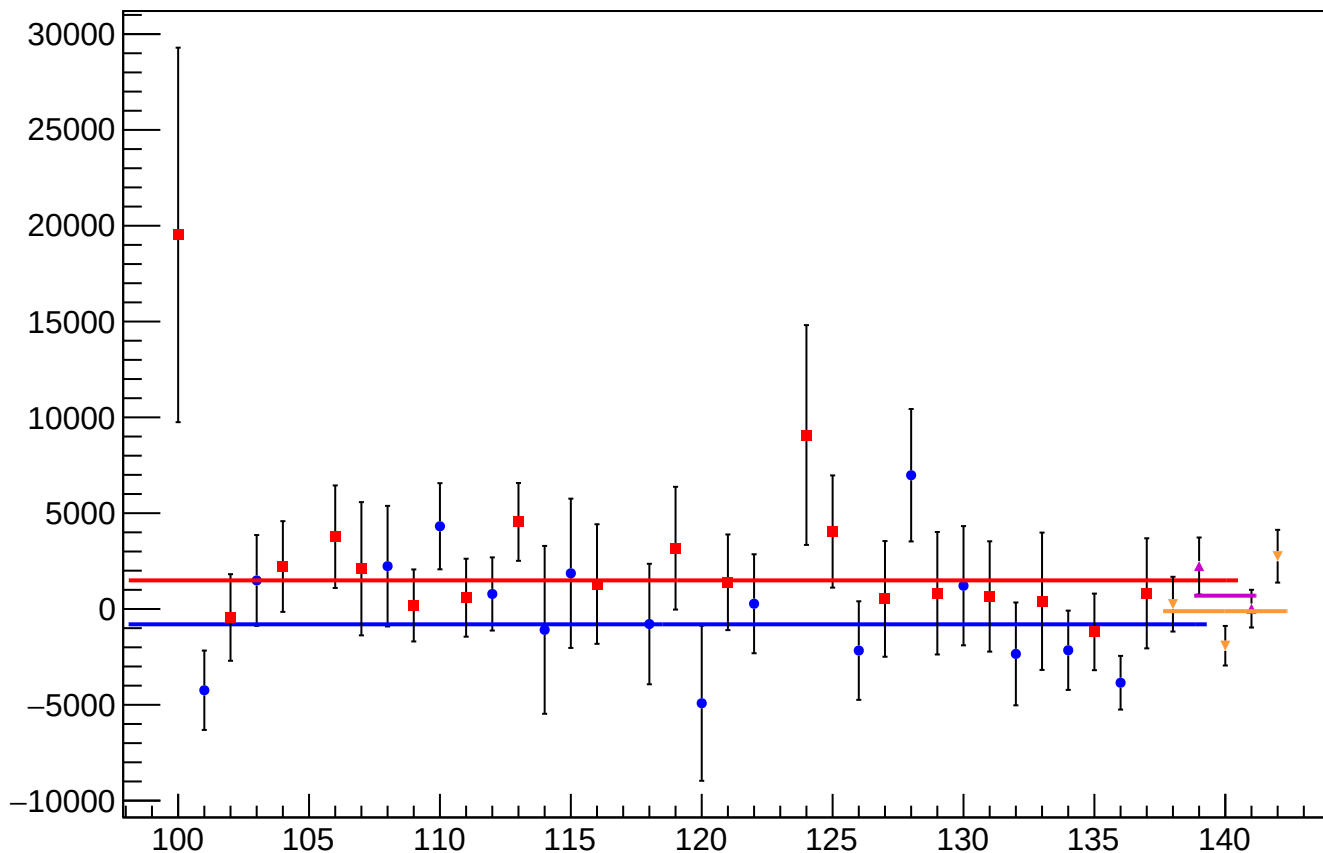
Right: 117.559 $\pm$ 0.023 χ^2 /NDF: 1849621.4/34

In: 117.685 $\pm$ 0.029 χ^2 /NDF: 1037418.3/17

Out: 117.719 $\pm$ 0.028 χ^2 /NDF: 1059691.7/21

All: 117.702 $\pm$ 0.020 χ^2 /NDF: 2097110.7/39

asym_sam3_reg_correction_mean vs Slug, Sign Corrected



Right In: -799.133+/-616.009 χ^2/NDF : 23.4/15

Left Out: -112.947+/-714.934 χ^2/NDF : 7.5/2

Right Out: 1493.897+/-613.097 χ^2/NDF : 12.9/18

Left In: 695.237+/-820.342 χ^2/NDF : 1.6/1

Left: 235.917+/-538.974 χ^2/NDF : 9.6/4

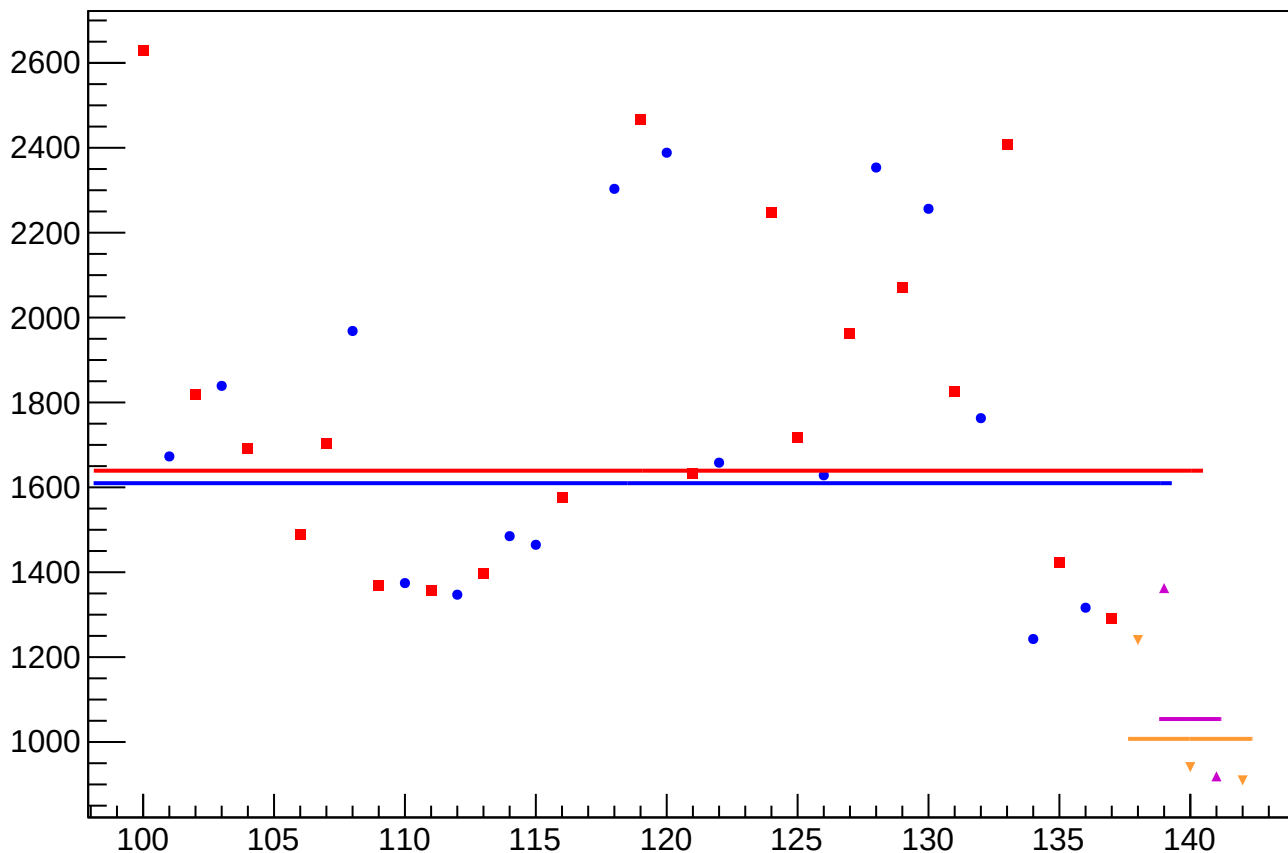
Right: 352.815+/-434.551 χ^2/NDF : 43.3/34

In: -260.318+/-492.590 χ^2/NDF : 27.1/17

Out: 812.972+/-465.402 χ^2/NDF : 23.3/21

All: 306.763+/-338.293 χ^2/NDF : 52.9/39

asym_sam3_reg_correction_rms vs Slug, Sign Corrected



Right In: 1609.782+/-0.436 χ^2/NDF : 619129.2/15

Left Out: 1007.407+/-0.506 χ^2/NDF : 71582.9/2

Right Out: 1639.241+/-0.434 χ^2/NDF : 520182.2/18

Left In: 1054.137+/-0.580 χ^2/NDF : 123766.5/1

Left: 1027.579+/-0.381 χ^2/NDF : 199037.9/4

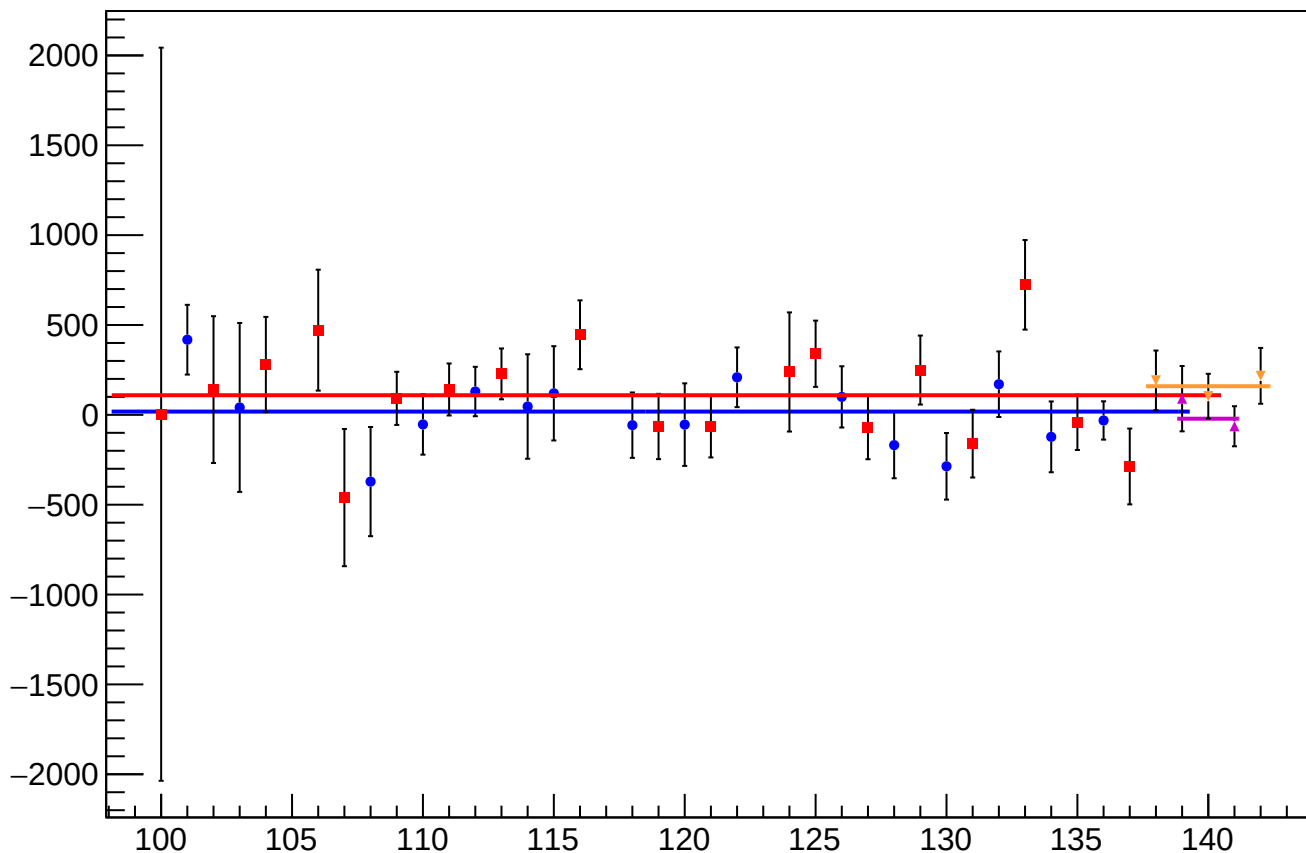
Right: 1624.581+/-0.307 χ^2/NDF : 1141609.2/34

In: 1409.437+/-0.348 χ^2/NDF : 1329616.1/17

Out: 1371.491+/-0.329 χ^2/NDF : 1491892.1/21

All: 1389.388+/-0.239 χ^2/NDF : 2827778.8/39

cor_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.191 $\pm$ 45.704 χ^2 /NDF: 13.9/15

Left Out: 159.279 $\pm$ 83.764 χ^2 /NDF:0.4/2

Right Out: 109.151 $\pm$ 45.828 χ^2 /NDF: 25.4/18

Left In: -21.461 $\pm$ 95.059 χ^2 /NDF:0.5/1

Left: 80.280 $\pm$ 62.846 χ^2 /NDF: 2.9/4

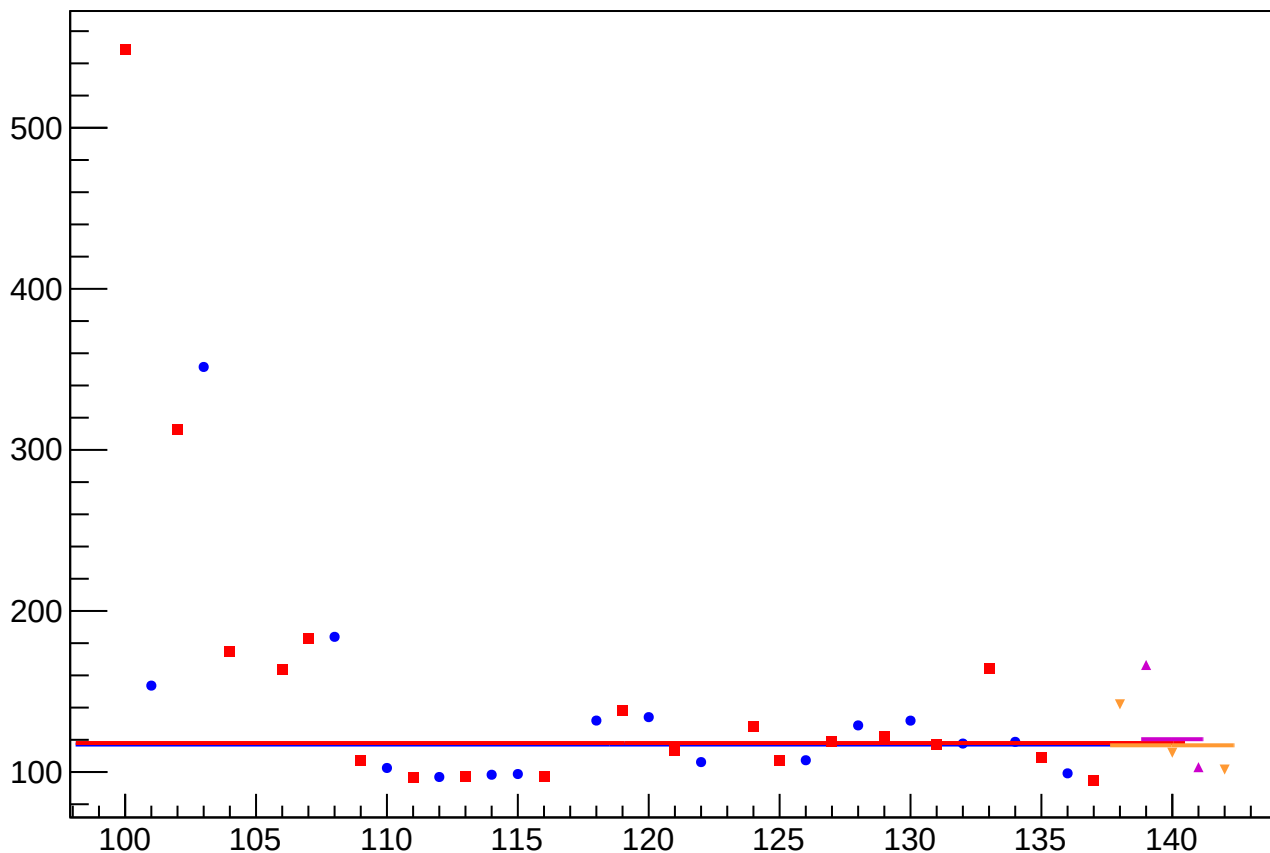
Right: 63.548 $\pm$ 32.361 χ^2 /NDF: 41.2/34

In: 10.746 $\pm$ 41.190 χ^2 /NDF:14.5/17

Out: 120.699 $\pm$ 40.204 χ^2 /NDF:26.1/21

All: 67.055 $\pm$ 28.771 χ^2 /NDF: 44.2/39

cor_asym_sam3_rms vs Slug, Sign Corrected



Right In: 117.063 $\pm$ 0.032 χ^2 /NDF: 858402.8/15

Left Out: 116.589 $\pm$ 0.059 χ^2 /NDF: 68470.5/2

Right Out: 118.006 $\pm$ 0.032 χ^2 /NDF: 986553.8/18

Left In: 120.376 $\pm$ 0.067 χ^2 /NDF: 177044.0/1

Left: 118.244 $\pm$ 0.044 χ^2 /NDF: 247301.2/4

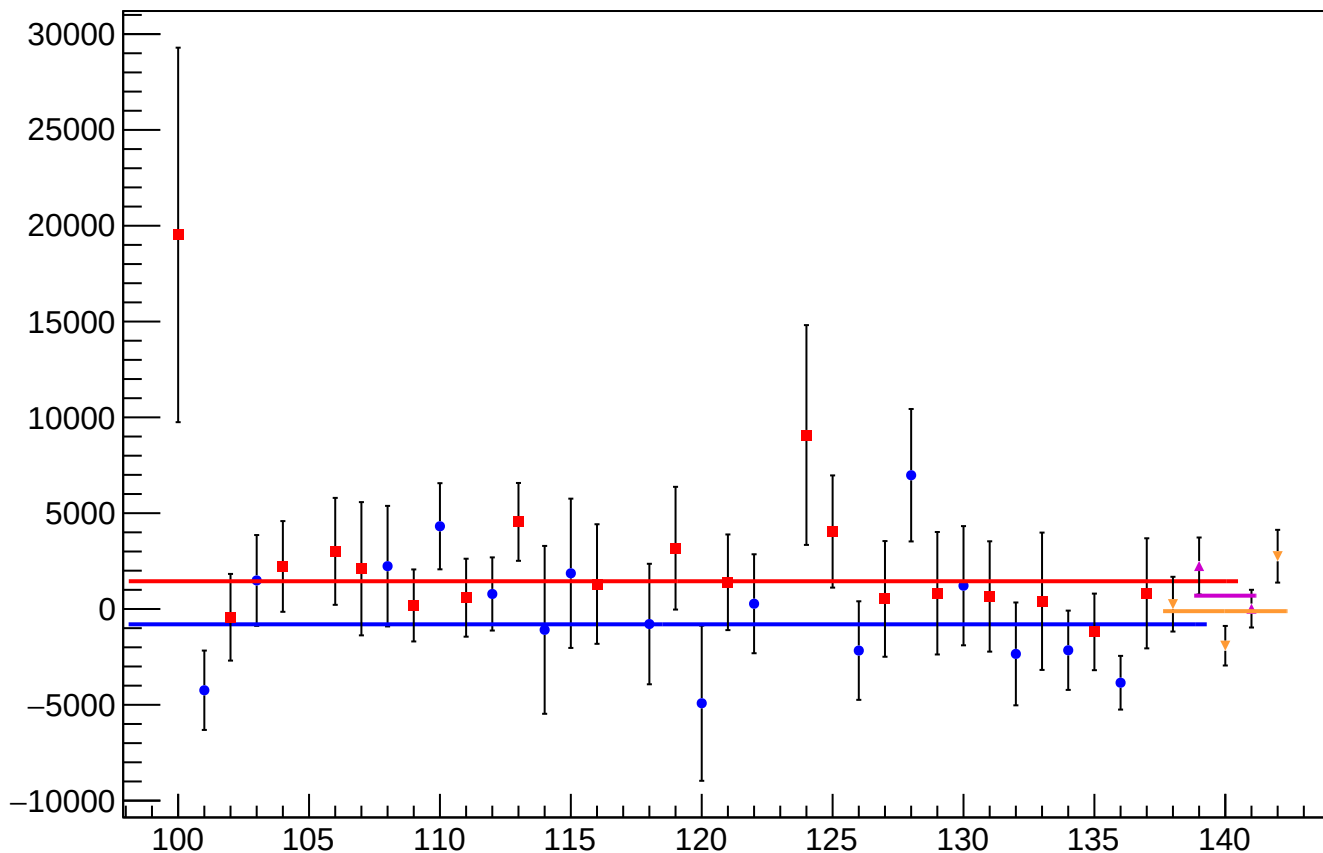
Right: 117.533 $\pm$ 0.023 χ^2 /NDF: 1845381.4/34

In: 117.685 $\pm$ 0.029 χ^2 /NDF: 1037420.3/17

Out: 117.679 $\pm$ 0.028 χ^2 /NDF: 1055464.7/21

All: 117.682 $\pm$ 0.020 χ^2 /NDF: 2092885.1/39

asym_sam3_cor_correction_mean vs Slug, Sign Corrected



Right In: -799.116+/-616.014 χ^2/NDF : 23.4/15

Left Out: -112.915+/-714.933 χ^2/NDF : 7.5/2

Right Out: 1448.433+/-614.443 χ^2/NDF : 12.5/18

Left In: 695.246+/-820.343 χ^2/NDF : 1.6/1

Left: 235.938+/-538.974 χ^2/NDF : 9.6/4

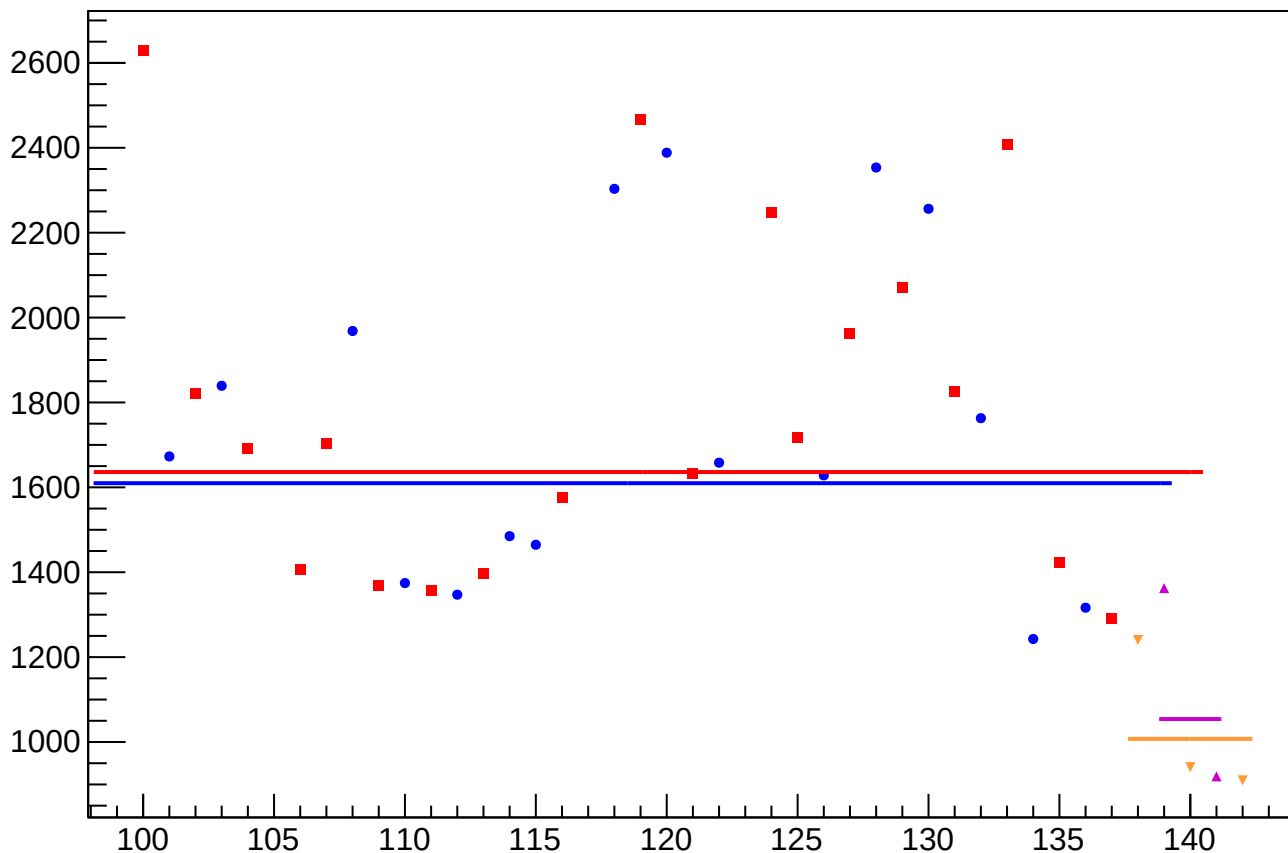
Right: 327.528+/-435.031 χ^2/NDF : 42.6/34

In: -260.300+/-492.593 χ^2/NDF : 27.1/17

Out: 785.114+/-465.990 χ^2/NDF : 22.7/21

All: 291.397+/-338.519 χ^2/NDF : 52.2/39

asym_sam3_cor_correction_rms vs Slug, Sign Corrected



Right In: 1609.791+/-0.436 χ^2/NDF : 619158.3/15

Left Out: 1007.406+/-0.506 χ^2/NDF : 71583.3/2

Right Out: 1636.046+/-0.434 χ^2/NDF : 527809.9/18

Left In: 1054.139+/-0.580 χ^2/NDF : 123764.9/1

Left: 1027.579+/-0.381 χ^2/NDF : 199037.0/4

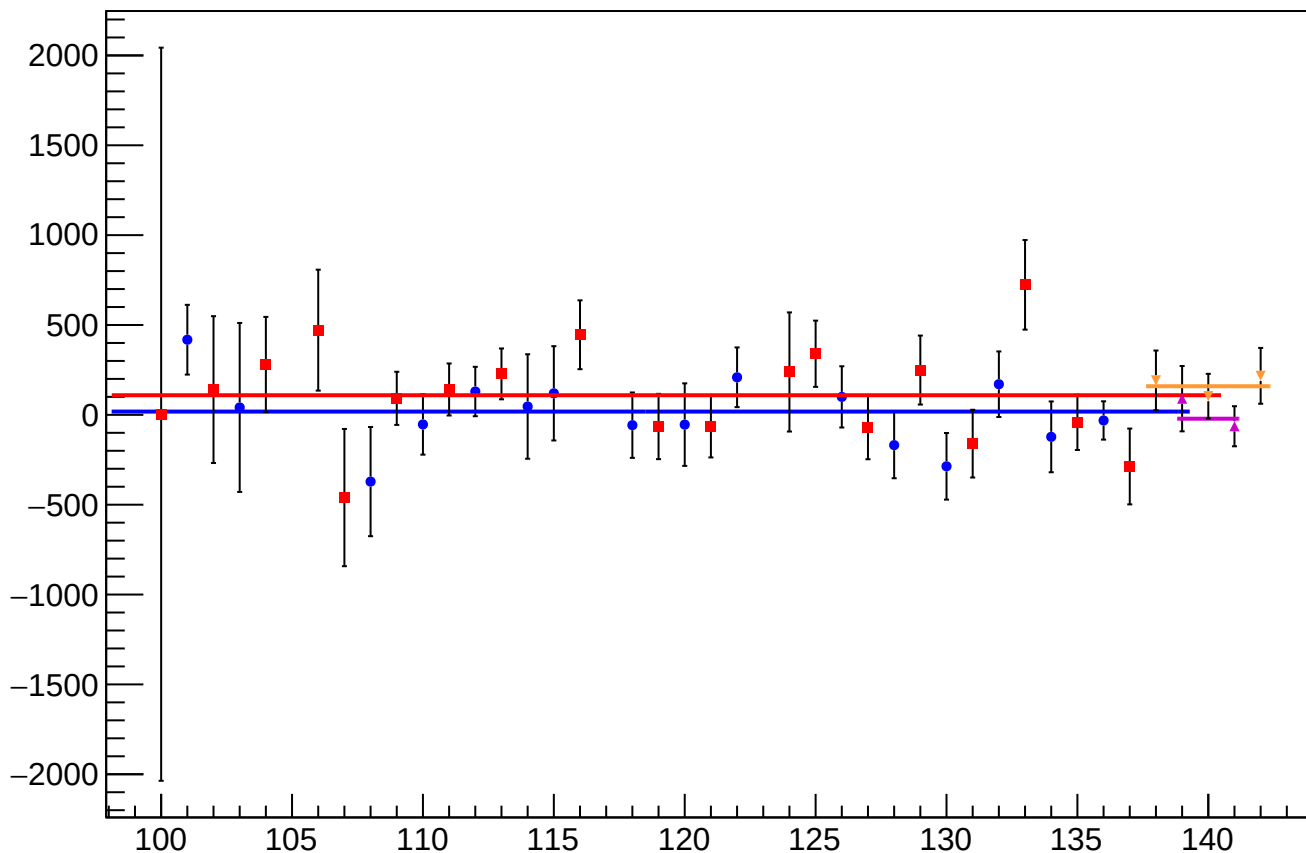
Right: 1622.952+/-0.308 χ^2/NDF : 1148789.4/34

In: 1409.441+/-0.348 χ^2/NDF : 1329656.0/17

Out: 1368.976+/-0.330 χ^2/NDF : 1488786.5/21

All: 1388.086+/-0.239 χ^2/NDF : 2825565.2/39

eigen_cor_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.191 $\pm$ 45.704 χ^2 /NDF: 13.9/15

Left Out: 159.279 $\pm$ 83.764 χ^2 /NDF:0.4/2

Right Out: 109.151 $\pm$ 45.828 χ^2 /NDF: 25.4/18

Left In: -21.461 $\pm$ 95.059 χ^2 /NDF:0.5/1

Left: 80.280 $\pm$ 62.846 χ^2 /NDF: 2.9/4

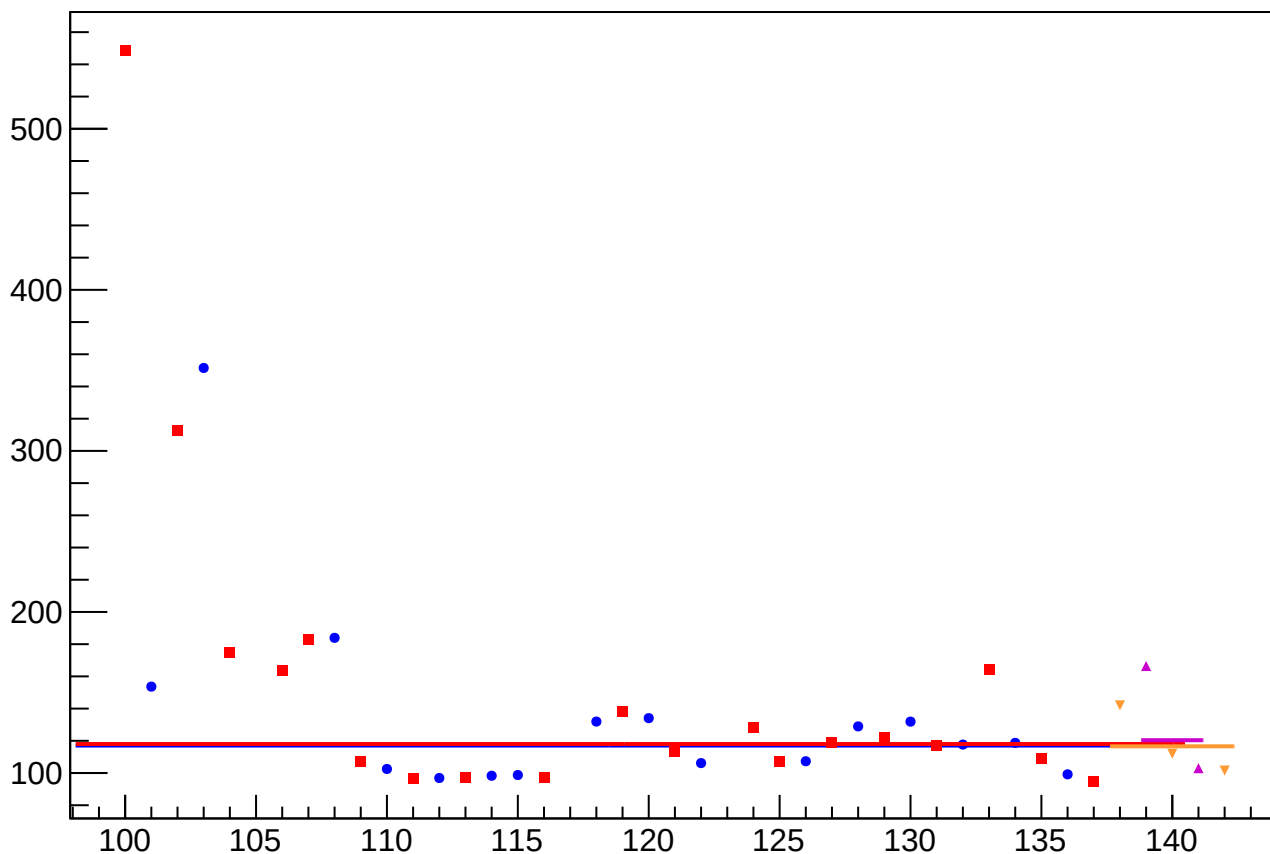
Right: 63.548 $\pm$ 32.361 χ^2 /NDF: 41.2/34

In: 10.746 $\pm$ 41.190 χ^2 /NDF:14.5/17

Out: 120.699 $\pm$ 40.204 χ^2 /NDF:26.1/21

All: 67.055 $\pm$ 28.771 χ^2 /NDF: 44.2/39

eigen_cor_asym_sam3_rms vs Slug, Sign Corrected



Right In: 117.063 $\pm$ 0.032 χ^2 /NDF: 858402.8/15

Left Out: 116.589 $\pm$ 0.059 χ^2 /NDF: 68470.5/2

Right Out: 118.006 $\pm$ 0.032 χ^2 /NDF: 986553.8/18

Left In: 120.376 $\pm$ 0.067 χ^2 /NDF: 177044.0/1

Left: 118.244 $\pm$ 0.044 χ^2 /NDF: 247301.2/4

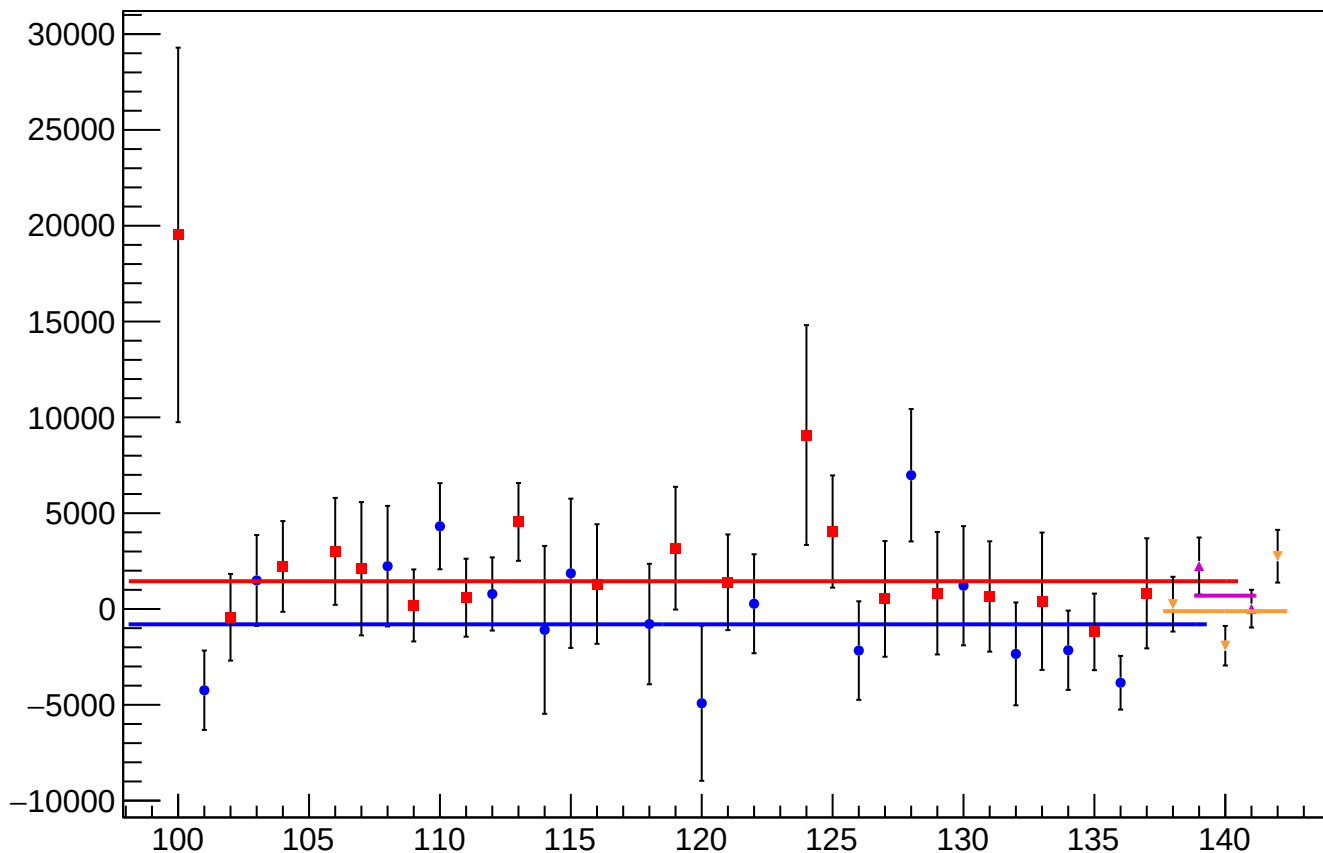
Right: 117.533 $\pm$ 0.023 χ^2 /NDF: 1845381.4/34

In: 117.685 $\pm$ 0.029 χ^2 /NDF: 1037420.3/17

Out: 117.679 $\pm$ 0.028 χ^2 /NDF: 1055464.7/21

All: 117.682 $\pm$ 0.020 χ^2 /NDF: 2092885.1/39

asym_sam3_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -799.116+/-616.014 χ^2/NDF : 23.4/15

Left Out: -112.915+/-714.933 χ^2/NDF : 7.5/2

Right Out: 1448.433+/-614.443 χ^2/NDF : 12.5/18

Left In: 695.246+/-820.343 χ^2/NDF : 1.6/1

Left: 235.938+/-538.974 χ^2/NDF : 9.6/4

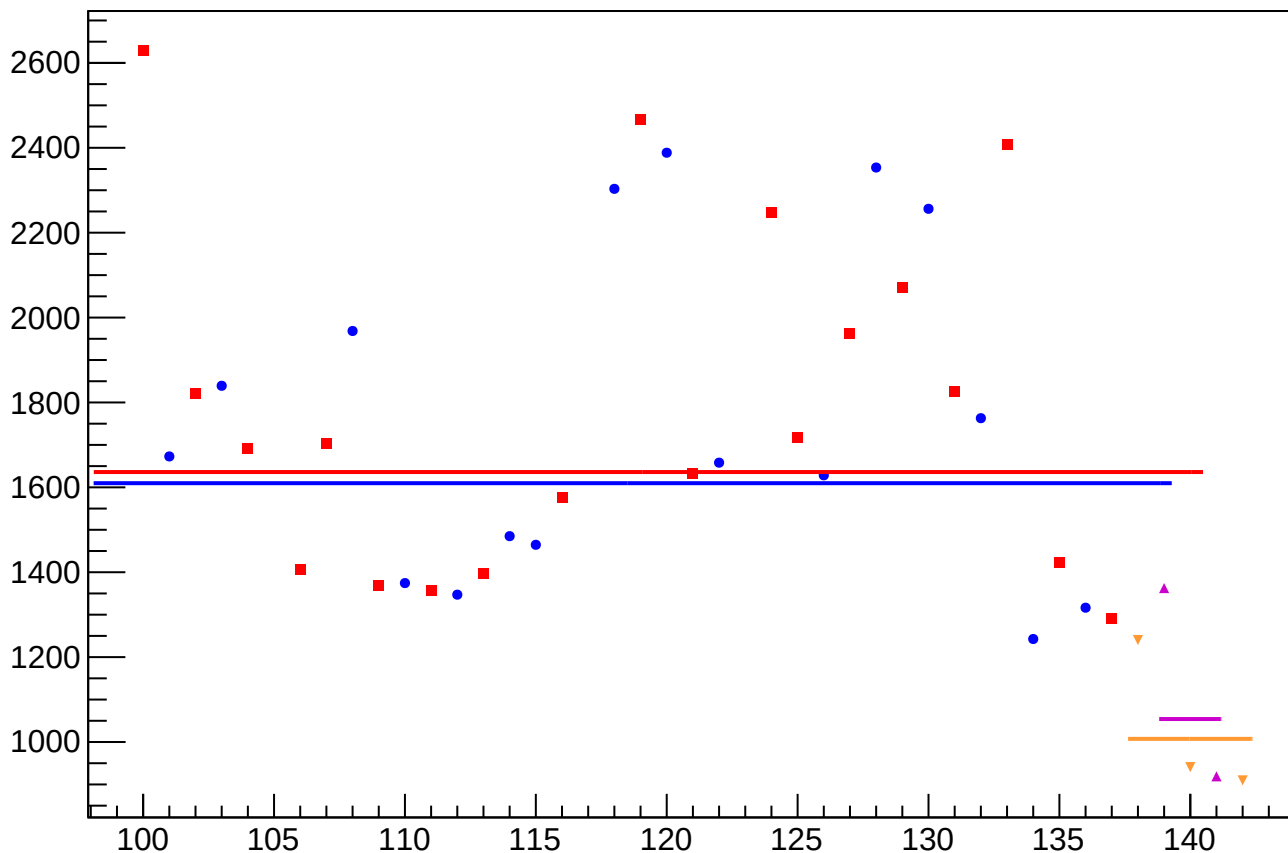
Right: 327.528+/-435.031 χ^2/NDF : 42.6/34

In: -260.300+/-492.593 χ^2/NDF : 27.1/17

Out: 785.114+/-465.990 χ^2/NDF : 22.7/21

All: 291.397+/-338.519 χ^2/NDF : 52.2/39

asym_sam3_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1609.791+/-0.436 χ^2/NDF : 619158.3/15

Left Out: 1007.406+/-0.506 χ^2/NDF : 71583.3/2

Right Out: 1636.046+/-0.434 χ^2/NDF : 527809.9/18

Left In: 1054.139+/-0.580 χ^2/NDF : 123764.9/1

Left: 1027.579+/-0.381 χ^2/NDF : 199037.0/4

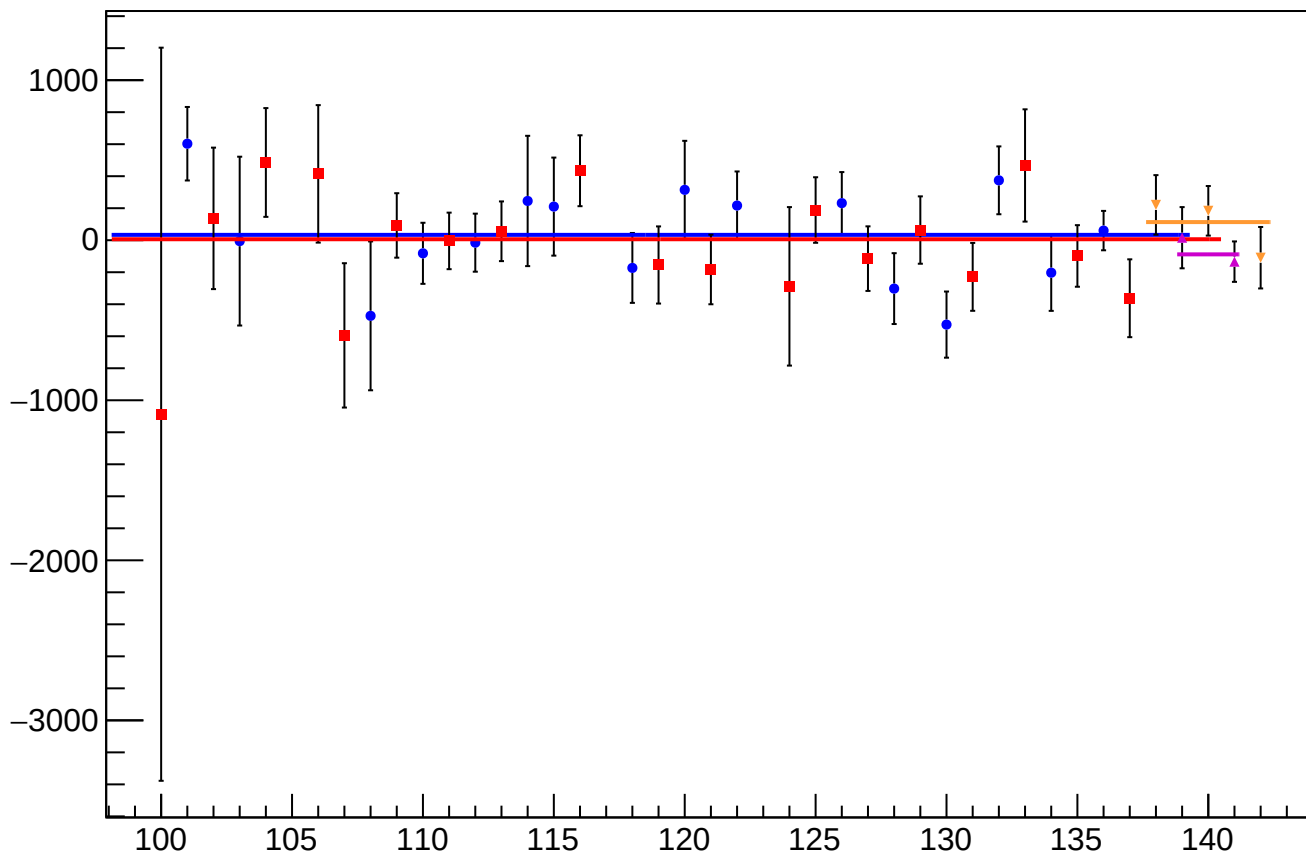
Right: 1622.952+/-0.308 χ^2/NDF : 1148789.4/34

In: 1409.441+/-0.348 χ^2/NDF : 1329656.0/17

Out: 1368.976+/-0.330 χ^2/NDF : 1488786.5/21

All: 1388.086+/-0.239 χ^2/NDF : 2825565.2/39

dit_asym_sam3_mean vs Slug, Sign Corrected



Right In: 33.471+/-54.908 χ^2/NDF : 25.2/15

Left Out: 113.340+/-101.182 χ^2/NDF : 1.9/2

Right Out: 6.107+/-56.090 χ^2/NDF : 17.3/18

Left In: -88.363+/-105.415 χ^2/NDF : 0.4/1

Left: 16.620+/-72.997 χ^2/NDF : 4.2/4

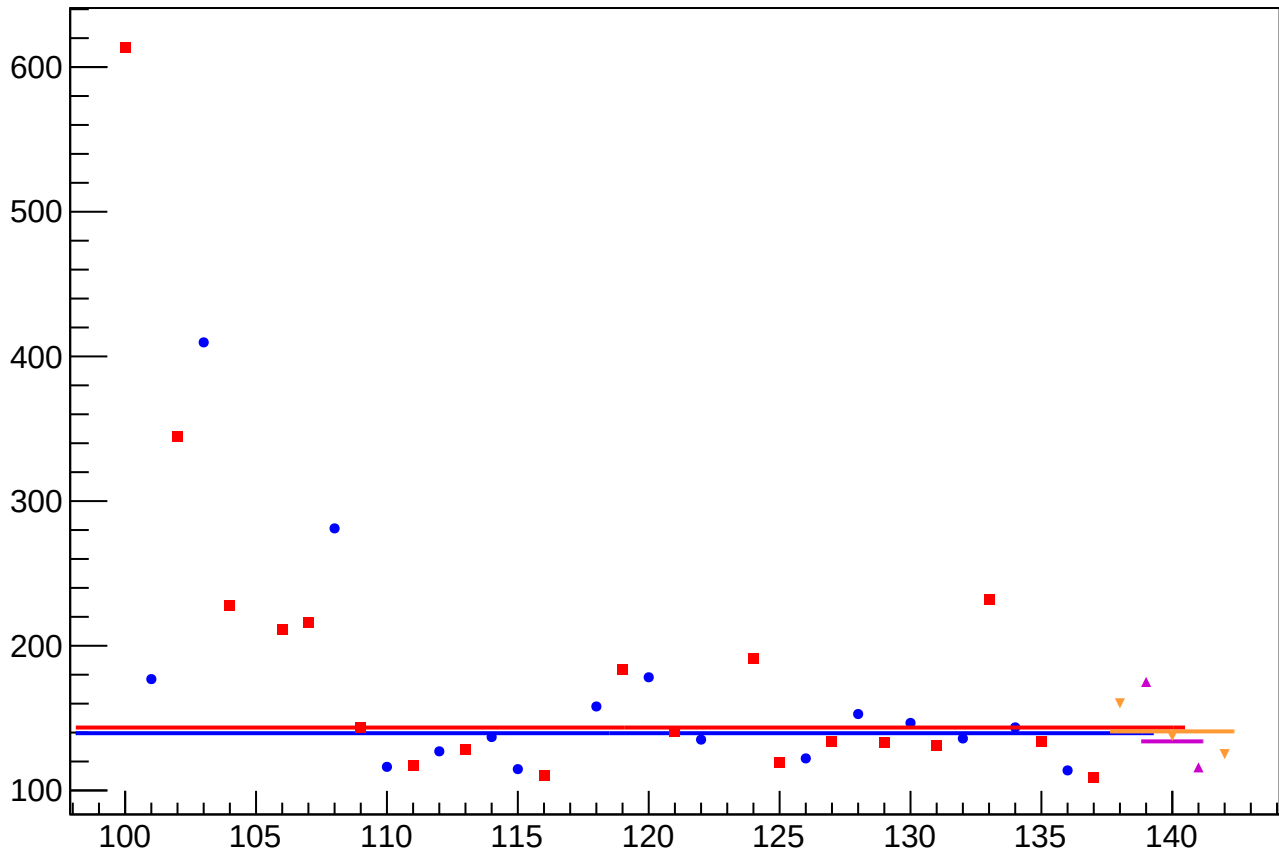
Right: 20.080+/-39.237 χ^2/NDF : 42.6/34

In: 7.471+/-48.698 χ^2/NDF : 26.7/17

Out: 31.314+/-49.057 χ^2/NDF : 20.1/21

All: 19.305+/-34.561 χ^2/NDF : 46.8/39

dit_asym_sam3_rms vs Slug, Sign Corrected



Right In: 139.566 +/- 0.039 χ^2/NDF : 976734.6/15

Left Out: 140.807 +/- 0.072 χ^2/NDF : 36038.7/2

Right Out: 143.479 +/- 0.040 χ^2/NDF : 1116671.9/18

Left In: 133.916 +/- 0.075 χ^2/NDF : 132767.9/1

Left: 137.503 +/- 0.052 χ^2/NDF : 173255.1/4

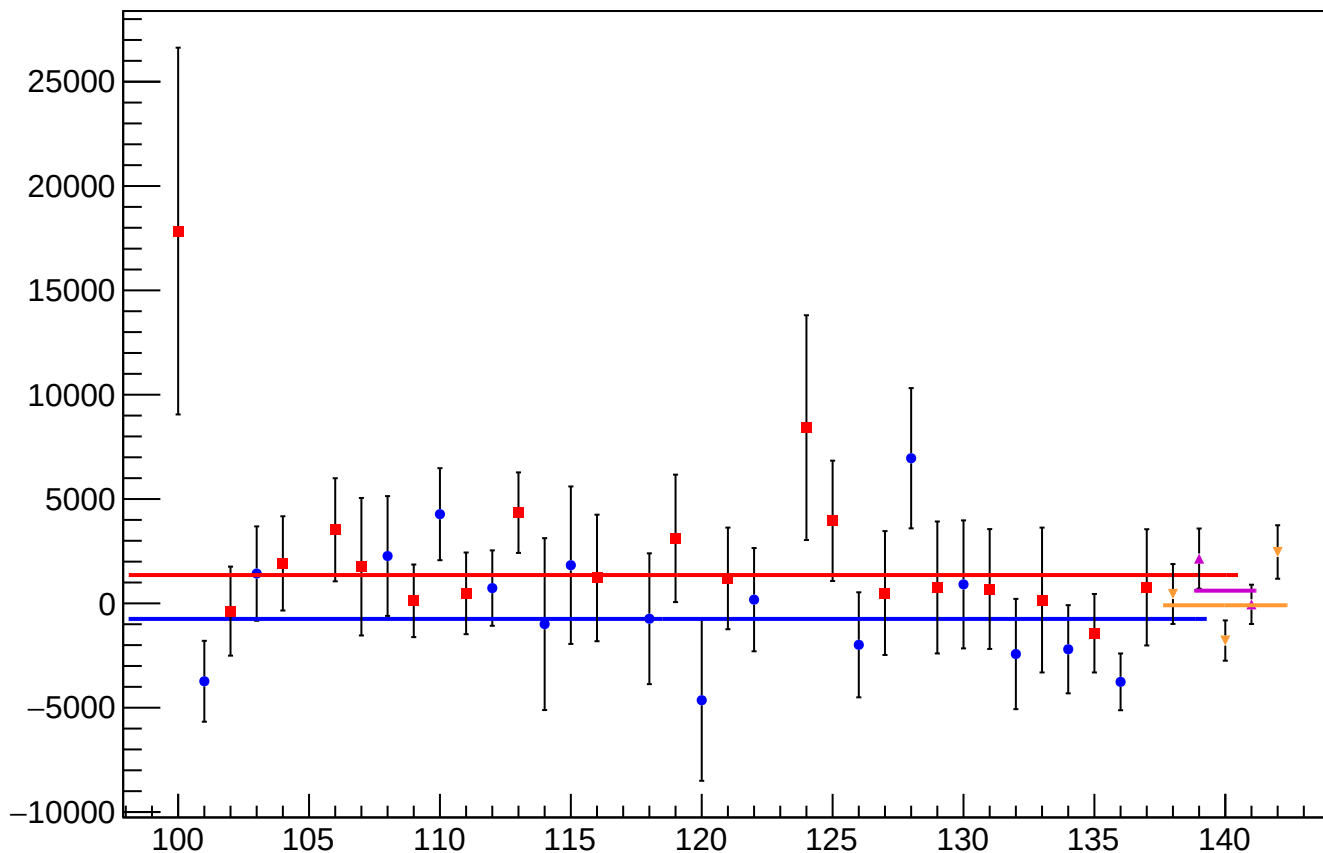
Right: 141.481 +/- 0.028 χ^2/NDF : 2098376.6/34

In: 138.361 +/- 0.034 χ^2/NDF : 1114022.3/17

Out: 142.851 +/- 0.035 χ^2/NDF : 1153777.5/21

All: 140.589 +/- 0.024 χ^2/NDF : 2276240.6/39

asym_sam3_dit_correction_mean vs Slug, Sign Corrected



Right In: -744.681+/-595.810 χ^2/NDF : 23.5/15

Left Out: -90.609+/-679.224 χ^2/NDF : 7.2/2

Right Out: 1357.874+/-585.808 χ^2/NDF : 13.5/18

Left In: 608.641+/-788.400 χ^2/NDF : 1.6/1

Left: 207.286+/-514.590 χ^2/NDF : 9.3/4

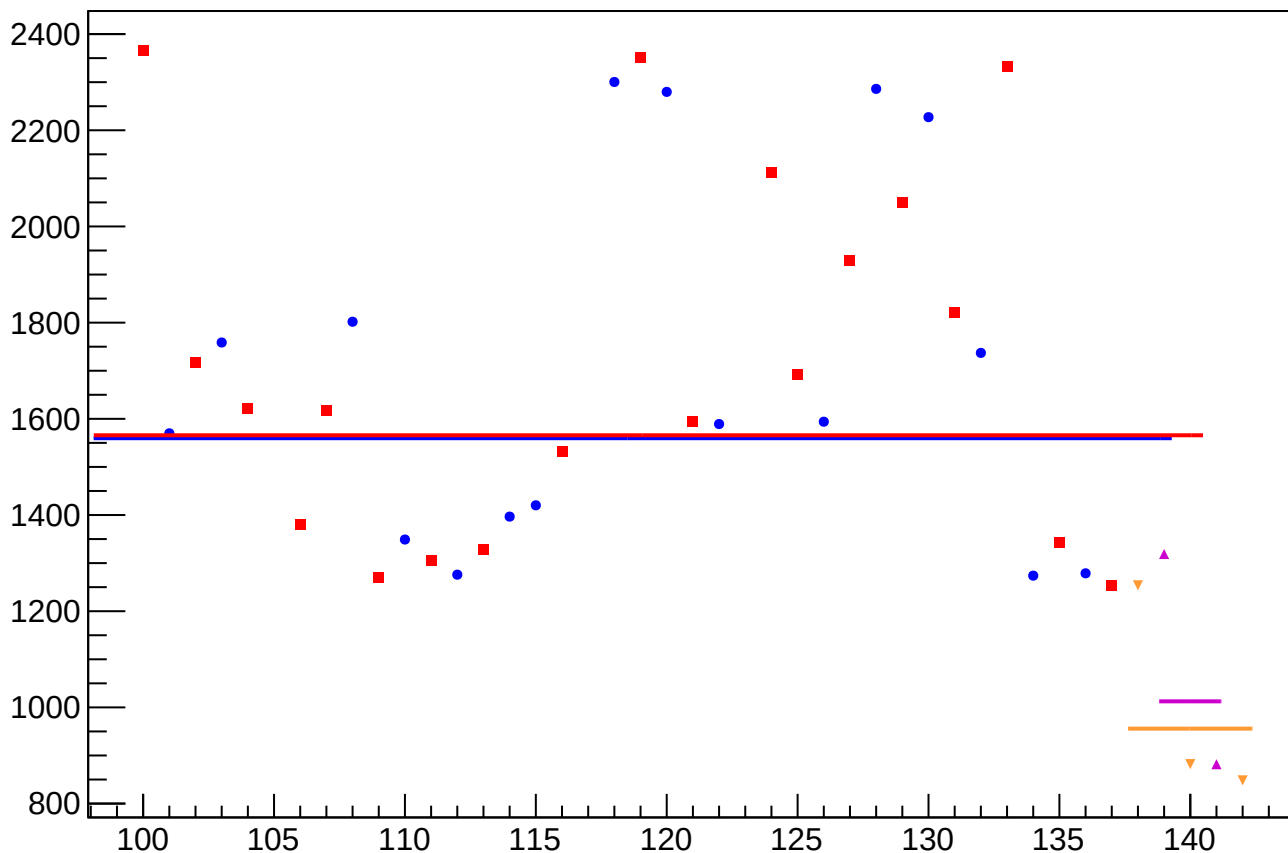
Right: 324.392+/-417.720 χ^2/NDF : 43.3/34

In: -252.737+/-475.340 χ^2/NDF : 27.0/17

Out: 740.015+/-443.610 χ^2/NDF : 23.3/21

All: 277.877+/-324.317 χ^2/NDF : 52.6/39

asym_sam3_dit_correction_rms vs Slug, Sign Corrected



Right In: 1559.735 $\pm$ 0.421 χ^2 /NDF: 604209.5/15

Left Out: 955.838 $\pm$ 0.480 χ^2 /NDF:111982.7/2

Right Out: 1565.808 $\pm$ 0.414 χ^2 /NDF: 563847.8/18

Left In: 1012.579 $\pm$ 0.557 χ^2 /NDF:128865.8/1

Left: 980.011 $\pm$ 0.364 χ^2 /NDF: 246794.6/4

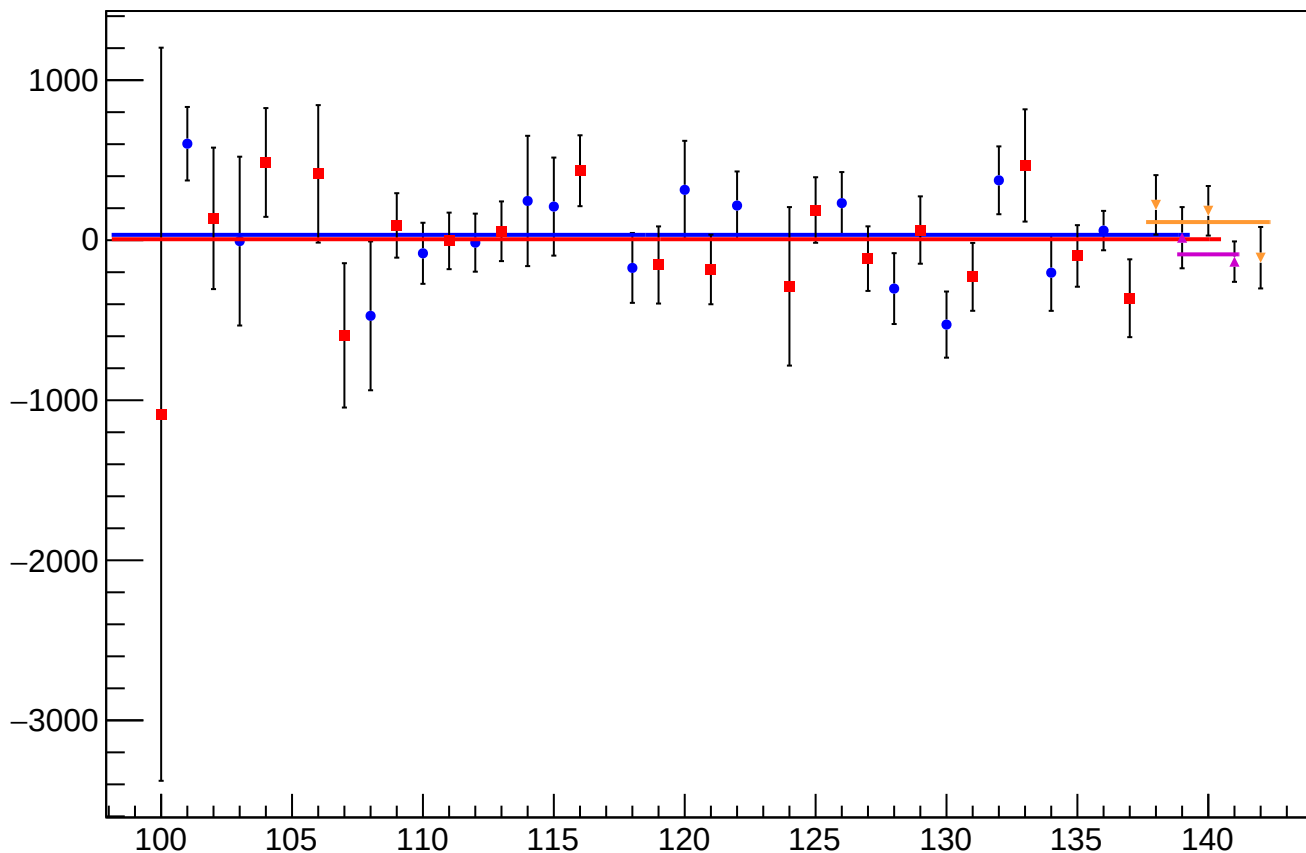
Right: 1562.823 $\pm$ 0.295 χ^2 /NDF: 1168163.0/34

In: 1360.839 $\pm$ 0.336 χ^2 /NDF:1346204.9/17

Out: 1305.622 $\pm$ 0.314 χ^2 /NDF:1600769.0/21

All: 1331.326 $\pm$ 0.229 χ^2 /NDF: 2961398.9/39

eigen_dit_asym_sam3_mean vs Slug, Sign Corrected



Right In: 33.469+/-54.908 χ^2/NDF : 25.2/15

Left Out: 113.339+/-101.182 χ^2/NDF : 1.9/2

Right Out: 6.103+/-56.090 χ^2/NDF : 17.3/18

Left In: -88.360+/-105.416 χ^2/NDF : 0.4/1

Left: 16.622+/-72.997 χ^2/NDF : 4.2/4

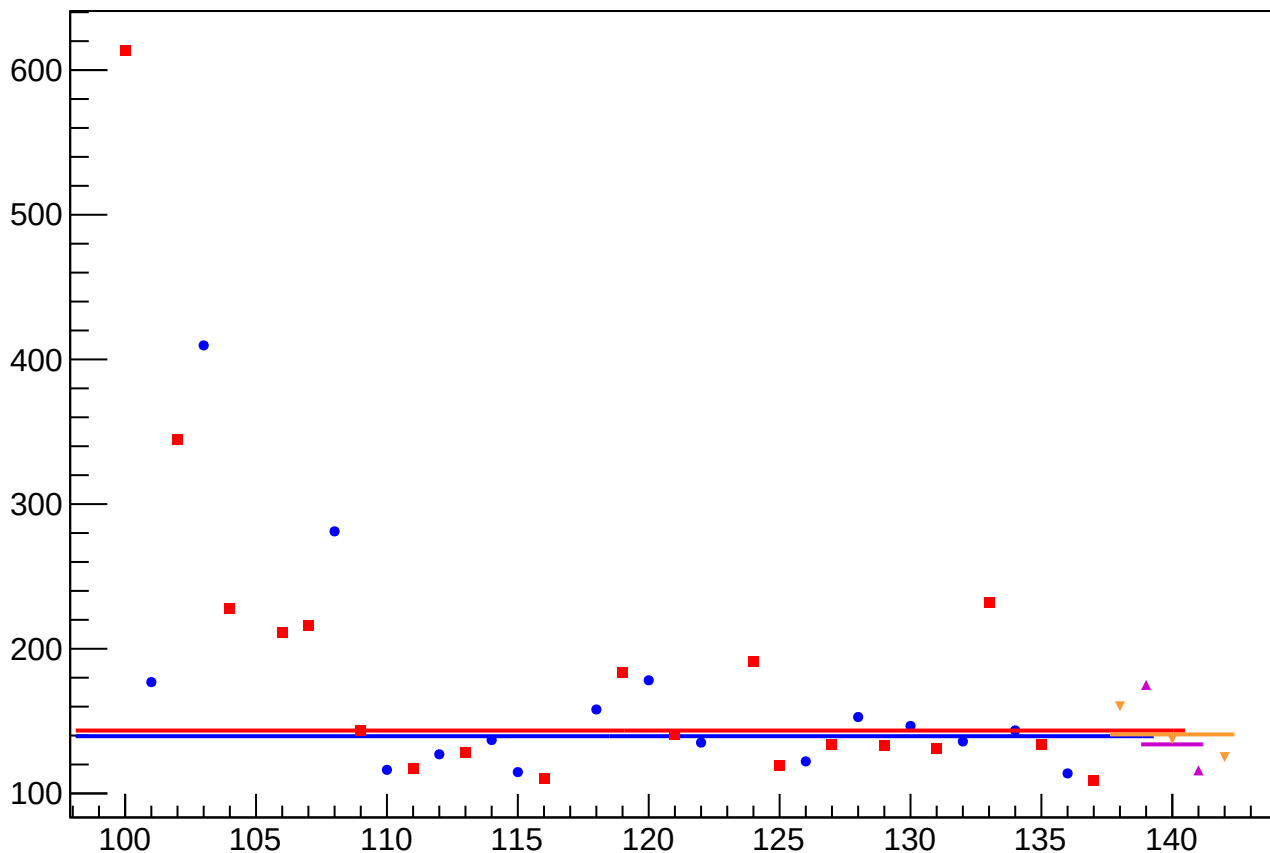
Right: 20.078+/-39.237 χ^2/NDF : 42.6/34

In: 7.470+/-48.698 χ^2/NDF : 26.7/17

Out: 31.311+/-49.057 χ^2/NDF : 20.1/21

All: 19.303+/-34.561 χ^2/NDF : 46.8/39

eigen_dit_asym_sam3_rms vs Slug, Sign Corrected



Right In: 139.567+/-0.039 χ^2/NDF : 976737.0/15

Left Out: 140.807+/-0.072 χ^2/NDF : 36040.0/2

Right Out: 143.480+/-0.040 χ^2/NDF : 1116678.4/18

Left In: 133.916+/-0.075 χ^2/NDF : 132765.0/1

Left: 137.503+/-0.052 χ^2/NDF : 173253.3/4

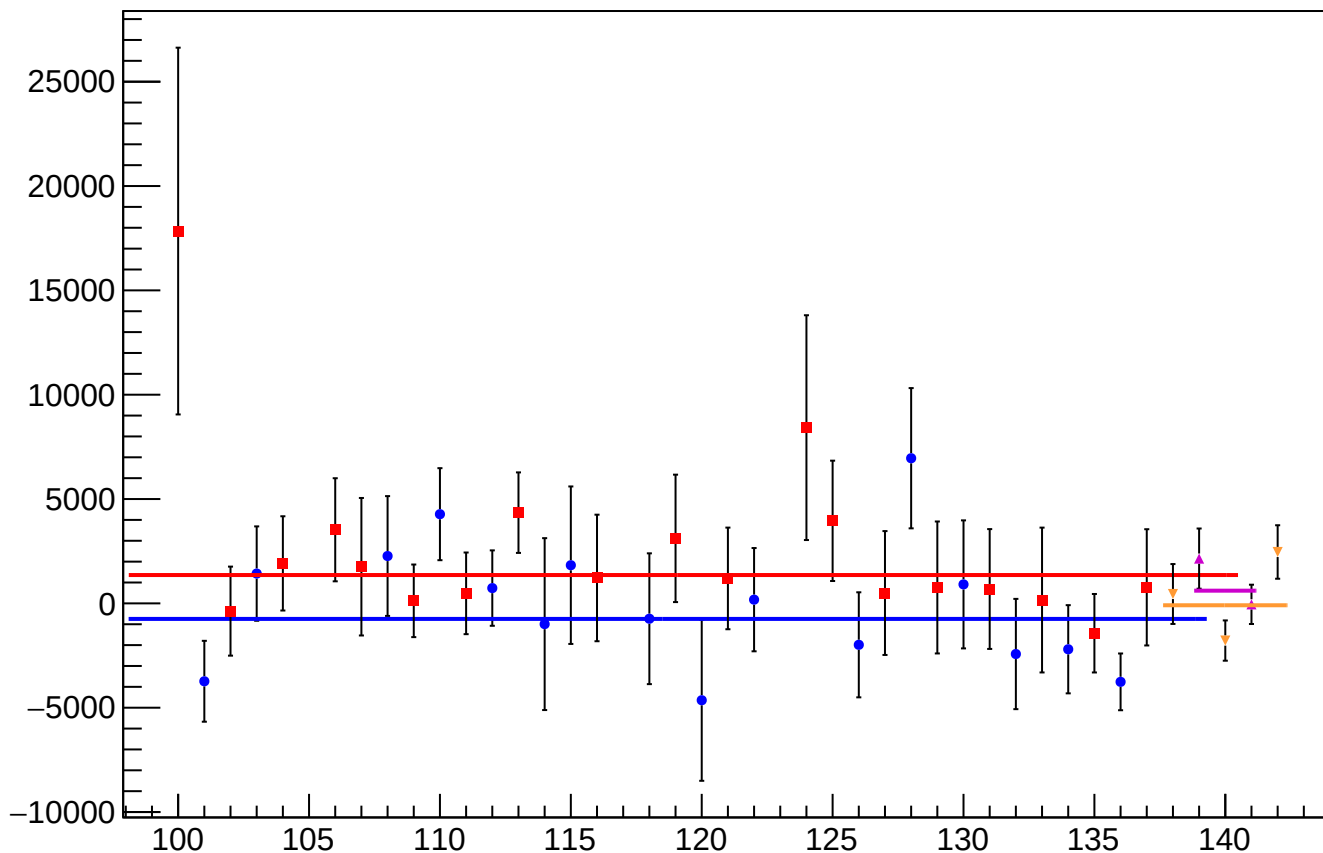
Right: 141.482+/-0.028 χ^2/NDF : 2098386.0/34

In: 138.361+/-0.034 χ^2/NDF : 1114021.8/17

Out: 142.852+/-0.035 χ^2/NDF : 1153785.6/21

All: 140.590+/-0.024 χ^2/NDF : 2276248.5/39

asym_sam3_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -744.678+/-595.809 χ^2/NDF : 23.5/15

Left Out: -90.613+/-679.224 χ^2/NDF : 7.2/2

Right Out: 1357.874+/-585.807 χ^2/NDF : 13.5/18

Left In: 608.641+/-788.400 χ^2/NDF : 1.6/1

Left: 207.284+/-514.590 χ^2/NDF : 9.3/4

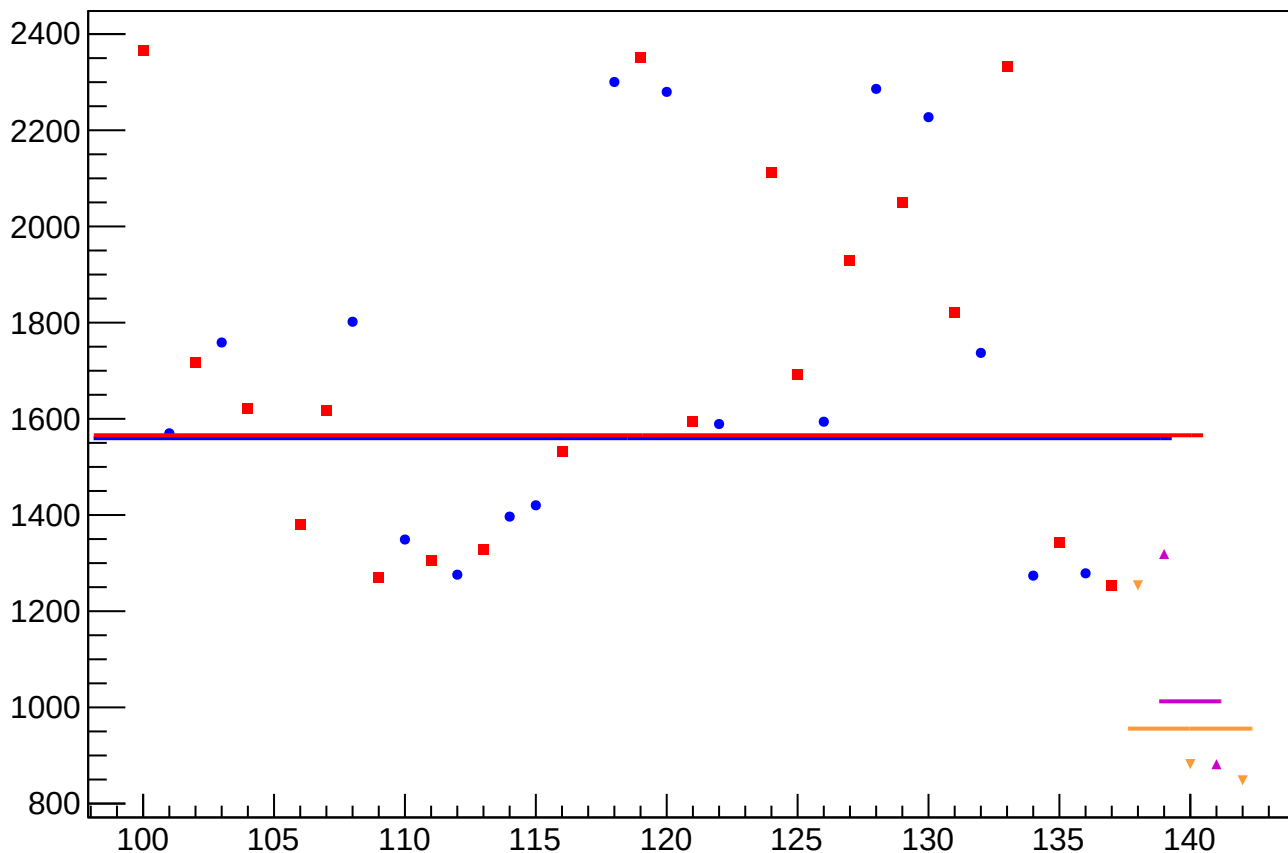
Right: 324.394+/-417.720 χ^2/NDF : 43.3/34

In: -252.735+/-475.339 χ^2/NDF : 27.0/17

Out: 740.015+/-443.609 χ^2/NDF : 23.3/21

All: 277.877+/-324.317 χ^2/NDF : 52.6/39

asym_sam3_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1559.734+/-0.421 χ^2/NDF : 604209.8/15

Left Out: 955.838+/-0.480 χ^2/NDF : 111983.7/2

Right Out: 1565.806+/-0.414 χ^2/NDF : 563845.7/18

Left In: 1012.578+/-0.557 χ^2/NDF : 128867.2/1

Left: 980.010+/-0.364 χ^2/NDF : 246796.8/4

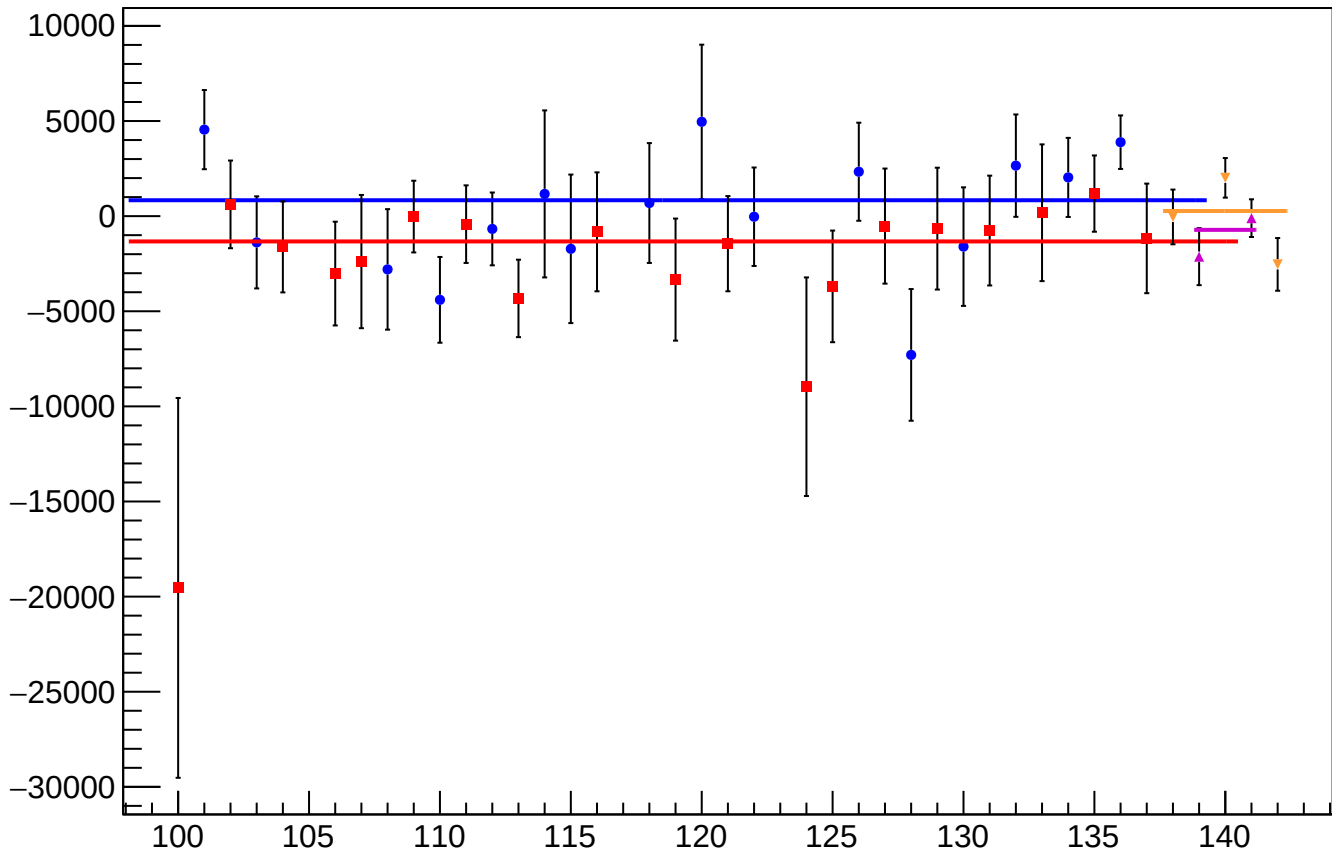
Right: 1562.821+/-0.295 χ^2/NDF : 1168161.1/34

In: 1360.838+/-0.336 χ^2/NDF : 1346205.5/17

Out: 1305.621+/-0.314 χ^2/NDF : 1600761.7/21

All: 1331.325+/-0.229 χ^2/NDF : 2961392.1/39

asym_sam3_mean vs Slug, Sign Corrected



Right In: 835.496 ± 618.780 χ^2/NDF : 24.9/15

Left Out: 269.291 ± 720.019 χ^2/NDF : 7.0/2

Right Out: -1329.538 ± 616.428 χ^2/NDF : 12.1/18

Left In: -720.901 ± 826.018 χ^2/NDF : 1.3/1

Left: -158.233 ± 542.763 χ^2/NDF : 9.0/4

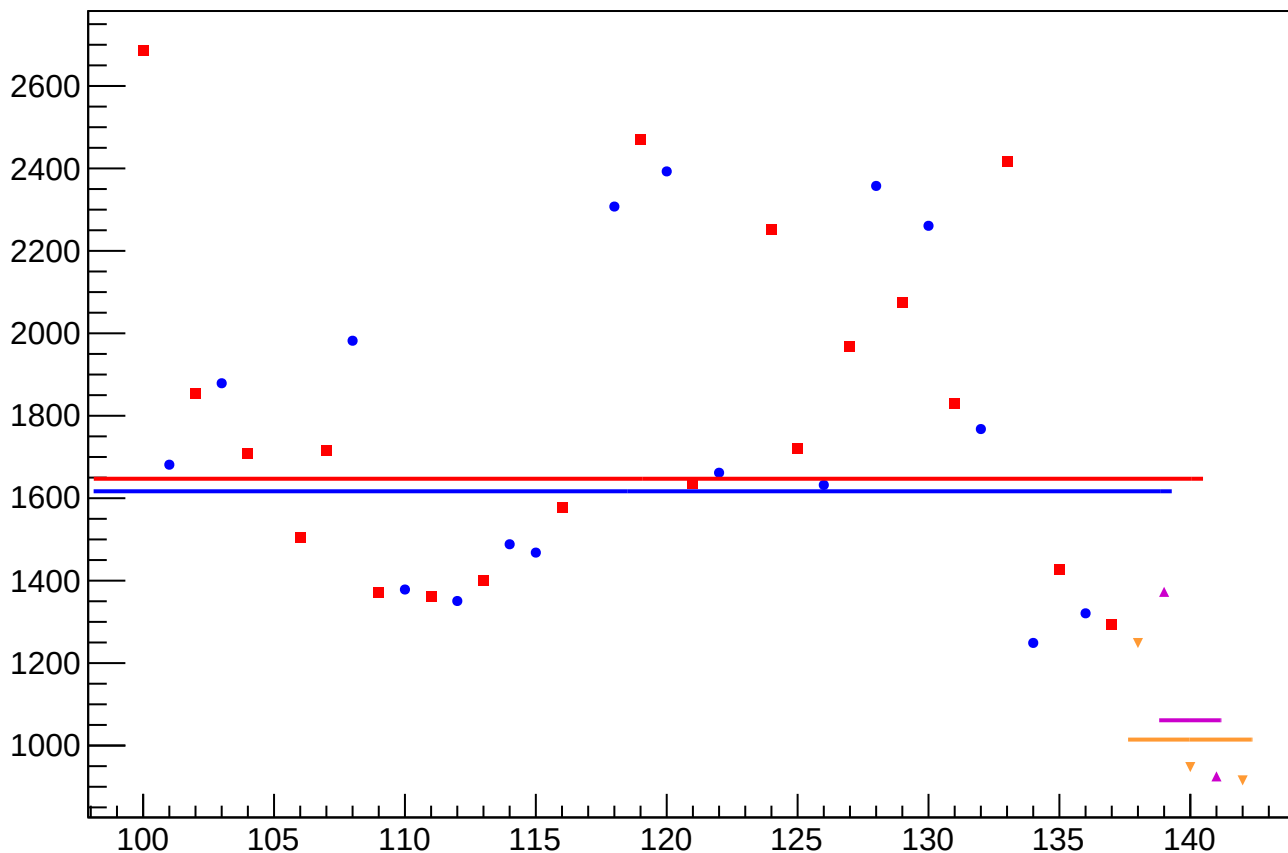
Right: -251.145 ± 436.710 χ^2/NDF : 43.2/34

In: 276.042 ± 495.235 χ^2/NDF : 28.4/17

Out: -653.312 ± 468.262 χ^2/NDF : 21.9/21

All: -214.633 ± 340.247 χ^2/NDF : 52.2/39

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1616.804 $\pm$ 0.438 χ^2 /NDF: 622271.0/15

Left Out: 1014.463 $\pm$ 0.509 χ^2 /NDF: 71475.2/2

Right Out: 1647.227 $\pm$ 0.436 χ^2 /NDF: 523860.9/18

Left In: 1061.294 $\pm$ 0.584 χ^2 /NDF: 124302.8/1

Left: 1034.683 $\pm$ 0.384 χ^2 /NDF: 199431.1/4

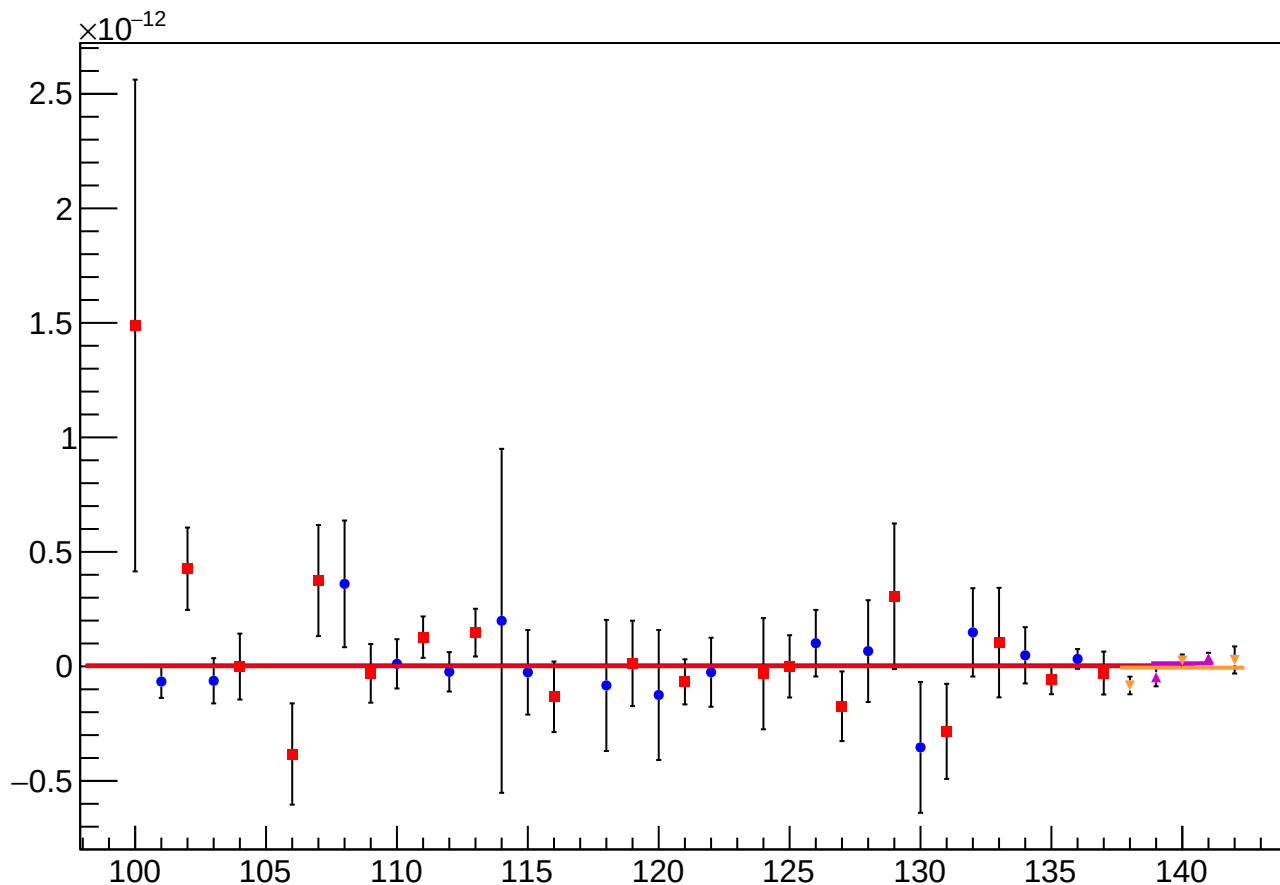
Right: 1632.074 $\pm$ 0.309 χ^2 /NDF: 1148558.3/34

In: 1417.124 $\pm$ 0.350 χ^2 /NDF: 1325982.1/17

Out: 1379.599 $\pm$ 0.331 χ^2 /NDF: 1486666.7/21

All: 1397.312 $\pm$ 0.241 χ^2 /NDF: 2818711.3/39

asym_sam3_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 6.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 5.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 23.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 3.2/1

Left: 0.000+/-0.000 χ^2/NDF : 9.4/4

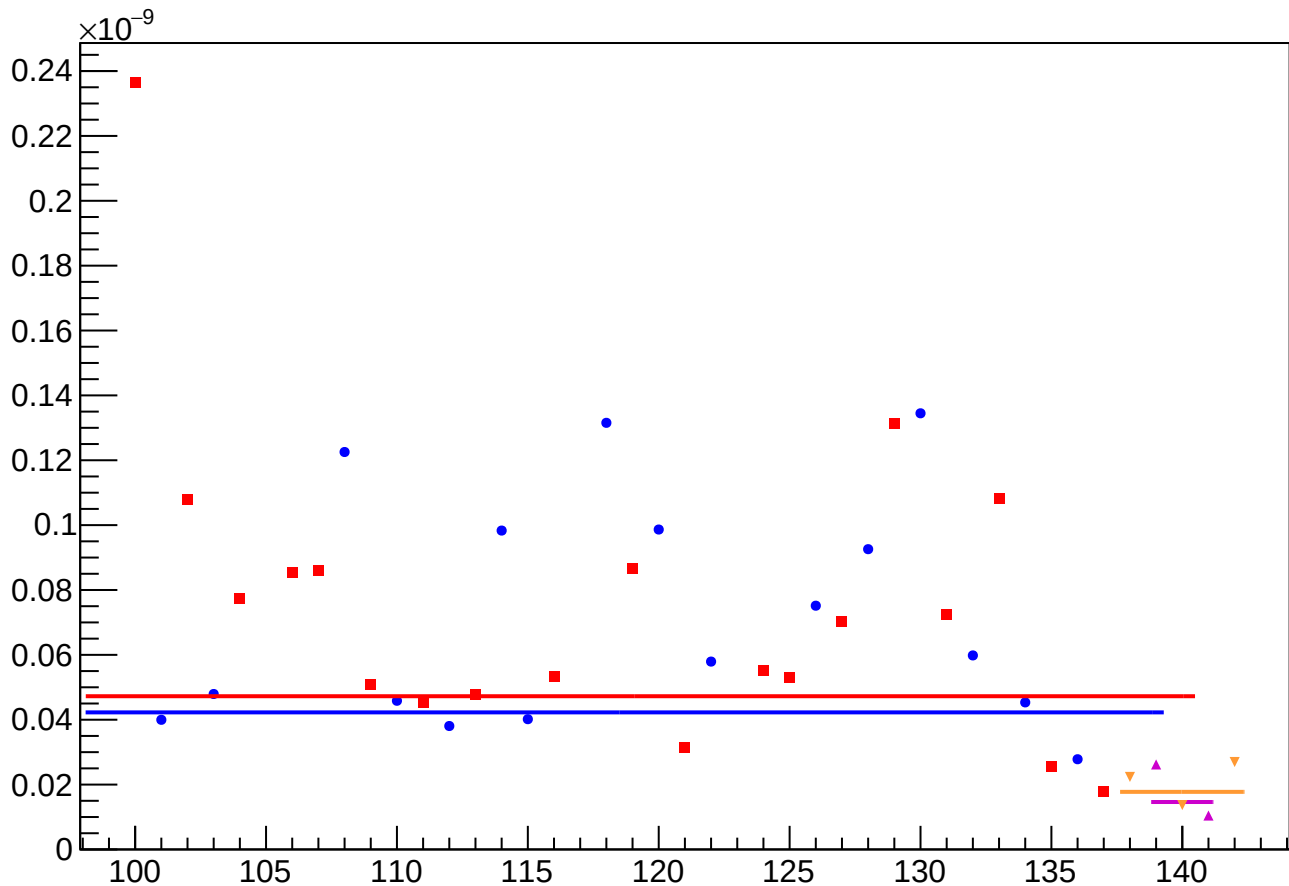
Right: 0.000+/-0.000 χ^2/NDF : 30.3/34

In: 0.000+/-0.000 χ^2/NDF : 10.2/17

Out: -0.000+/-0.000 χ^2/NDF : 29.2/21

All: 0.000+/-0.000 χ^2/NDF : 39.7/39

asym_sam3_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1147920.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 123904.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1410595.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 232315.4/1

Left: 0.000+/-0.000 χ^2/NDF : 379624.5/4

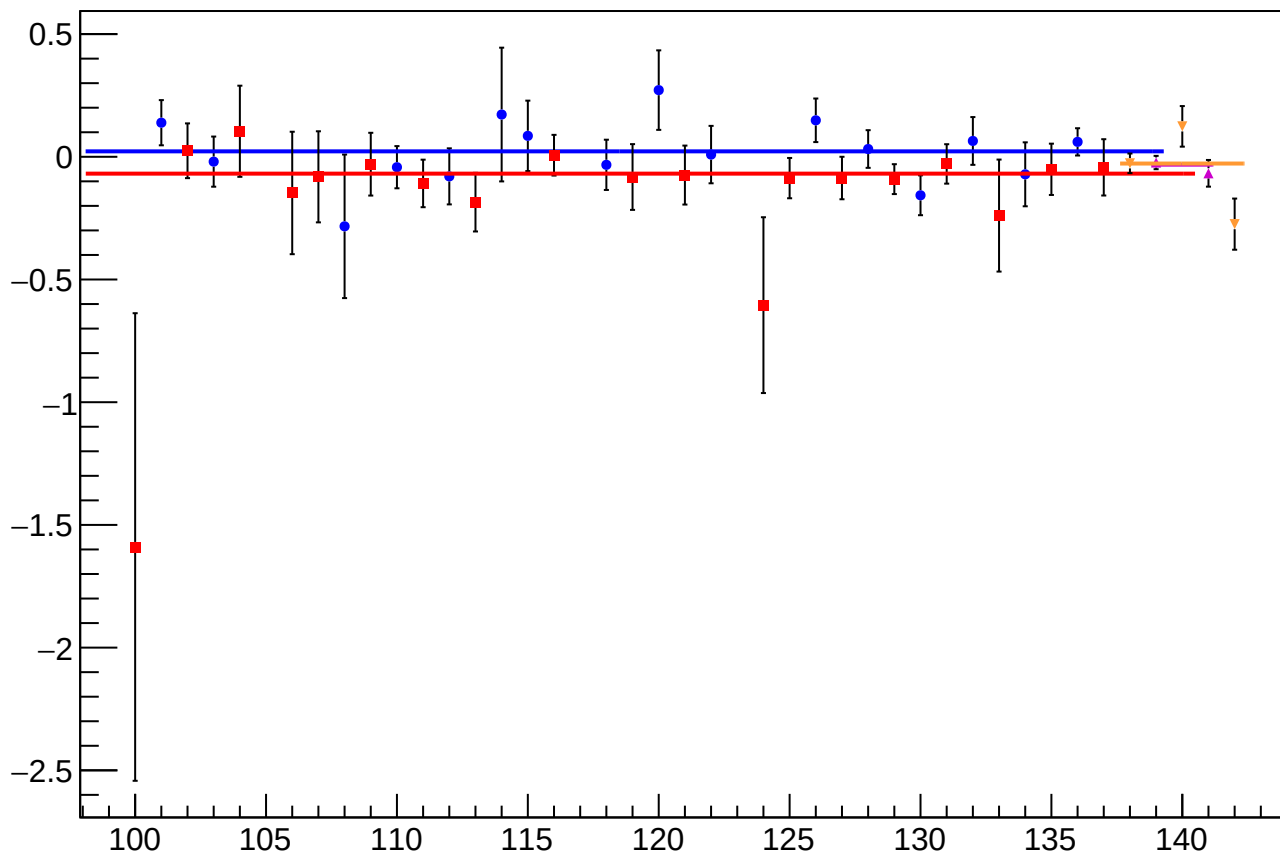
Right: 0.000+/-0.000 χ^2/NDF : 2588419.0/34

In: 0.000+/-0.000 χ^2/NDF : 2699119.3/17

Out: 0.000+/-0.000 χ^2/NDF : 2833007.3/21

All: 0.000+/-0.000 χ^2/NDF : 5554249.7/39

asym_sam3_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.025 $\chi^2/\text{NDF}: 15.5/15$

Left Out: -0.028 ± 0.034 $\chi^2/\text{NDF}: 9.0/2$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.032 ± 0.024 $\chi^2/\text{NDF}: 0.5/1$

Left: -0.031 ± 0.020 $\chi^2/\text{NDF}: 9.5/4$

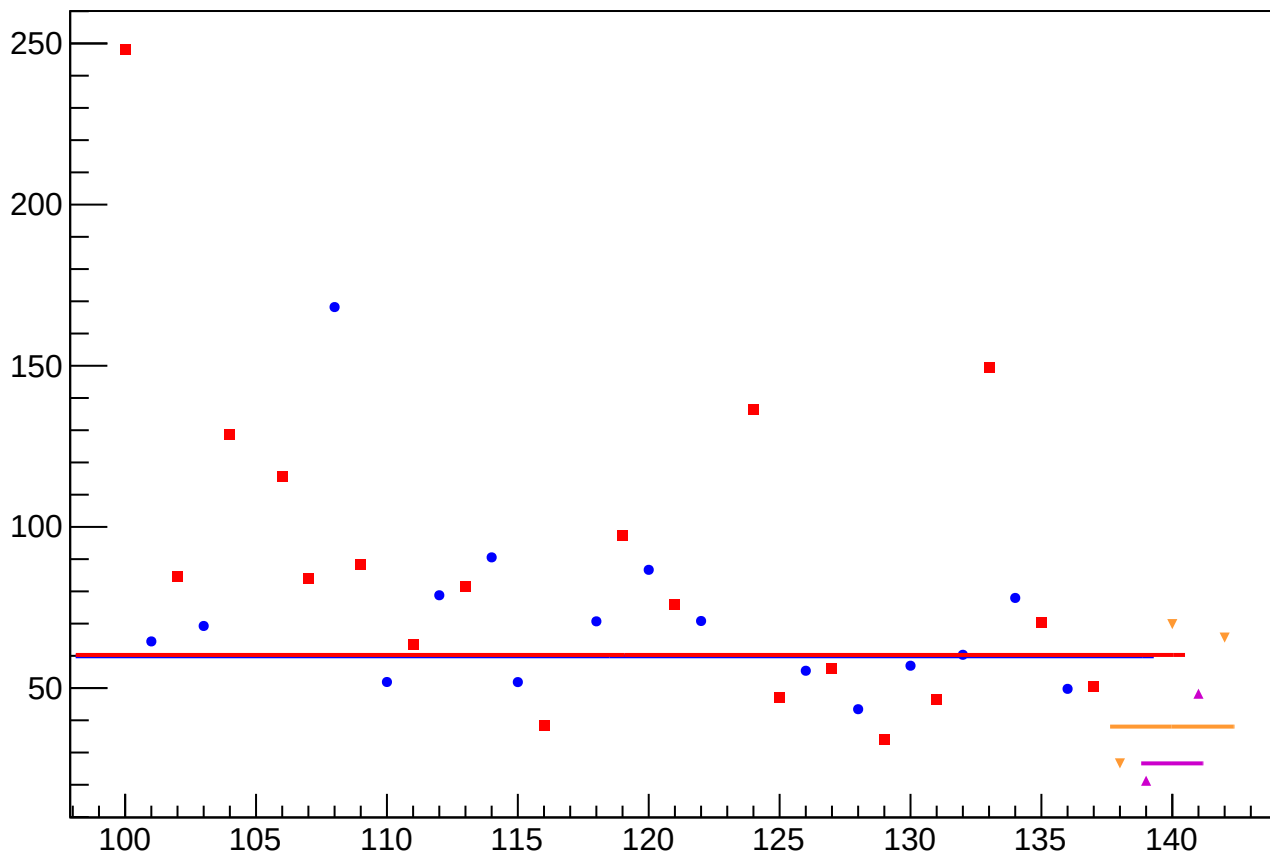
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.005 ± 0.017 $\chi^2/\text{NDF}: 18.5/17$

Out: -0.054 ± 0.020 $\chi^2/\text{NDF}: 19.5/21$

All: -0.026 ± 0.013 $\chi^2/\text{NDF}: 41.3/39$

asym_sam3_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.867 $\pm$ 0.017 χ^2 /NDF: 698954.5/15

Left Out: 38.045 $\pm$ 0.024 χ^2 /NDF: 600199.4/2

Right Out: 60.278 $\pm$ 0.018 χ^2 /NDF: 1977220.6/18

Left In: 26.634 $\pm$ 0.017 χ^2 /NDF: 394522.7/1

Left: 30.501 $\pm$ 0.014 χ^2 /NDF: 1144260.3/4

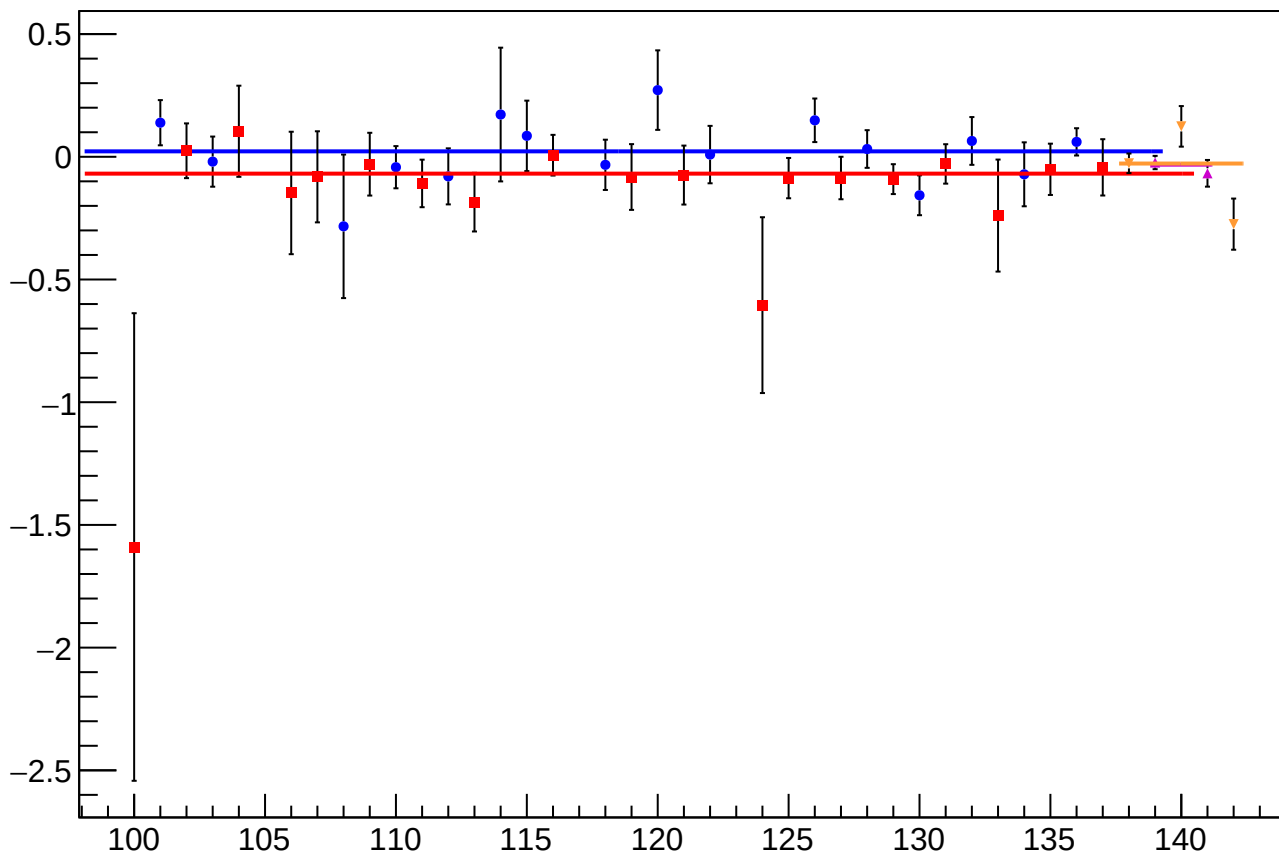
Right: 60.068 $\pm$ 0.012 χ^2 /NDF: 2676445.3/34

In: 42.991 $\pm$ 0.012 χ^2 /NDF: 2935865.5/17

Out: 52.343 $\pm$ 0.014 χ^2 /NDF: 3129643.2/21

All: 46.935 $\pm$ 0.009 χ^2 /NDF: 6311646.1/39

asym_sam3_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.025 $\chi^2/\text{NDF}: 15.5/15$

Left Out: -0.028 ± 0.034 $\chi^2/\text{NDF}: 9.0/2$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.032 ± 0.024 $\chi^2/\text{NDF}: 0.5/1$

Left: -0.031 ± 0.020 $\chi^2/\text{NDF}: 9.5/4$

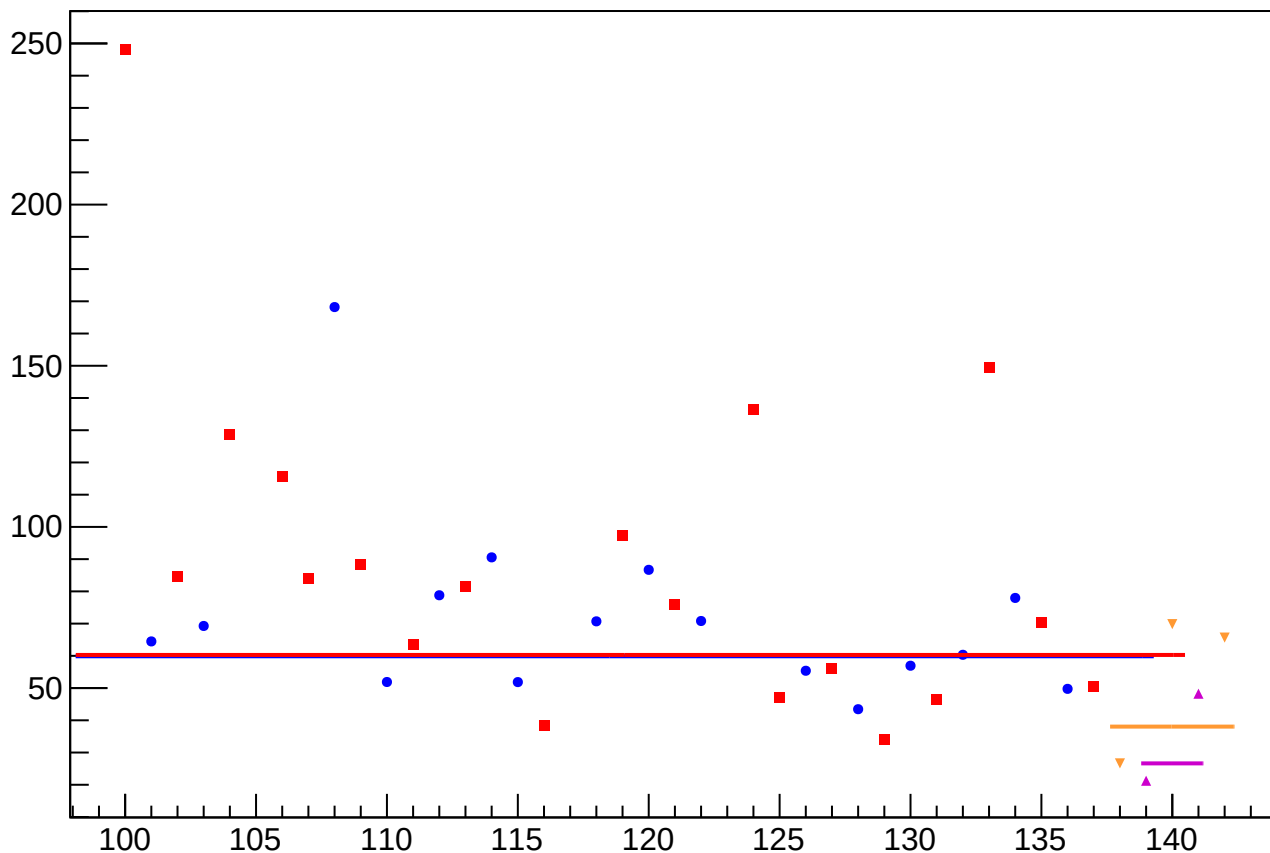
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.005 ± 0.017 $\chi^2/\text{NDF}: 18.5/17$

Out: -0.054 ± 0.020 $\chi^2/\text{NDF}: 19.5/21$

All: -0.026 ± 0.013 $\chi^2/\text{NDF}: 41.3/39$

asym_sam3_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.867 $\pm$ 0.017 χ^2 /NDF: 698954.5/15

Left Out: 38.045 $\pm$ 0.024 χ^2 /NDF: 600199.4/2

Right Out: 60.278 $\pm$ 0.018 χ^2 /NDF: 1977220.6/18

Left In: 26.634 $\pm$ 0.017 χ^2 /NDF: 394522.7/1

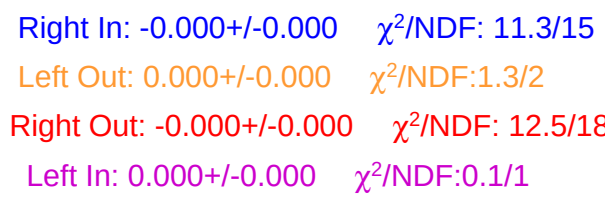
Left: 30.501 $\pm$ 0.014 χ^2 /NDF: 1144260.3/4

Right: 60.068 $\pm$ 0.012 χ^2 /NDF: 2676445.3/34

In: 42.991 $\pm$ 0.012 χ^2 /NDF: 2935865.5/17

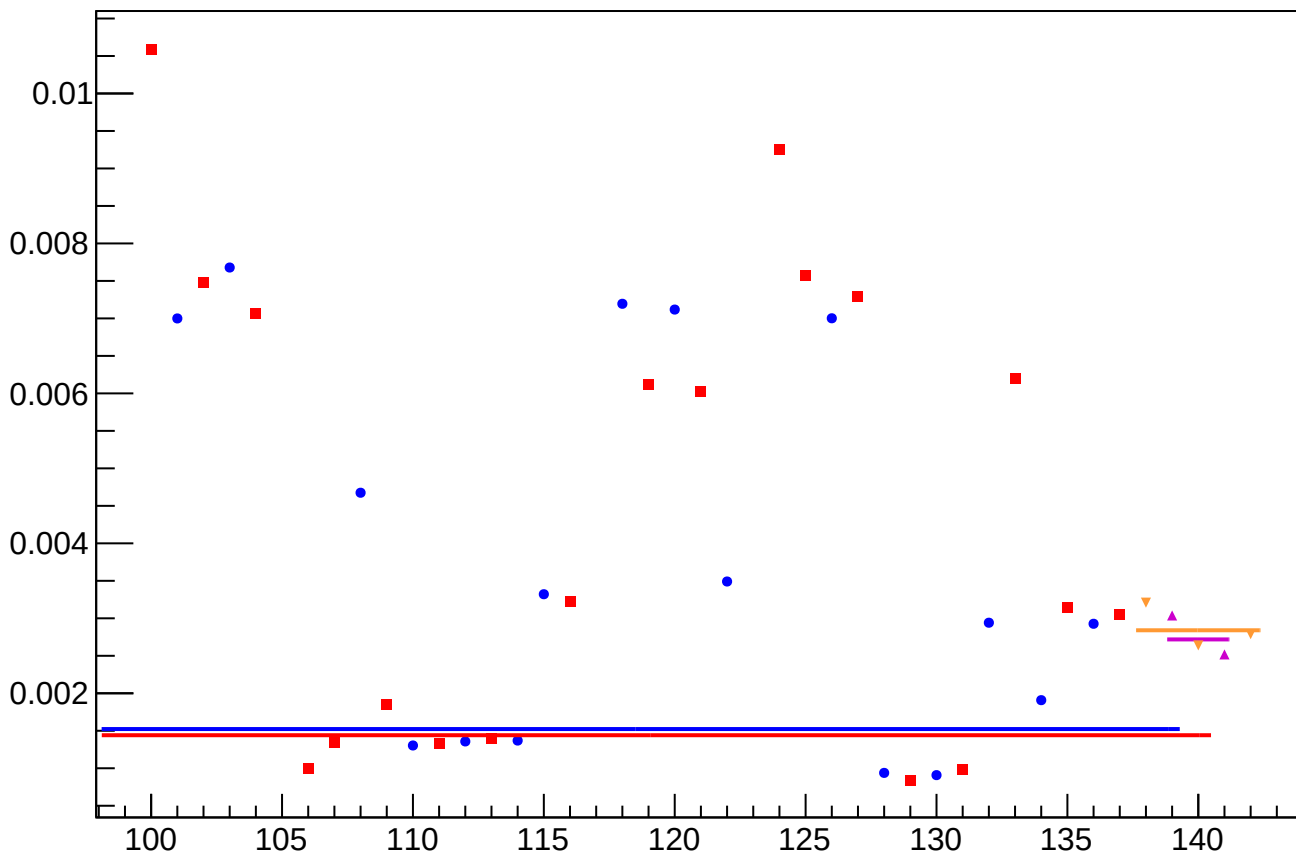
Out: 52.343 $\pm$ 0.014 χ^2 /NDF: 3129643.2/21

All: 46.935 $\pm$ 0.009 χ^2 /NDF: 6311646.1/39

$\times 10^{-3}$ 

All: -0.000+/-0.000 χ^2/NDF : 28.1/39

asym_sam3_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000

χ^2/NDF : 5182869.7/15

Left Out: 0.003+/-0.000

χ^2/NDF : 30174.6/2

Right Out: 0.001+/-0.000

χ^2/NDF : 5789411.1/18

Left In: 0.003+/-0.000

χ^2/NDF : 28854.2/1

Left: 0.003+/-0.000

χ^2/NDF : 62565.5/4

Right: 0.001+/-0.000

χ^2/NDF : 10985380.1/34

In: 0.002+/-0.000

χ^2/NDF : 5786588.3/17

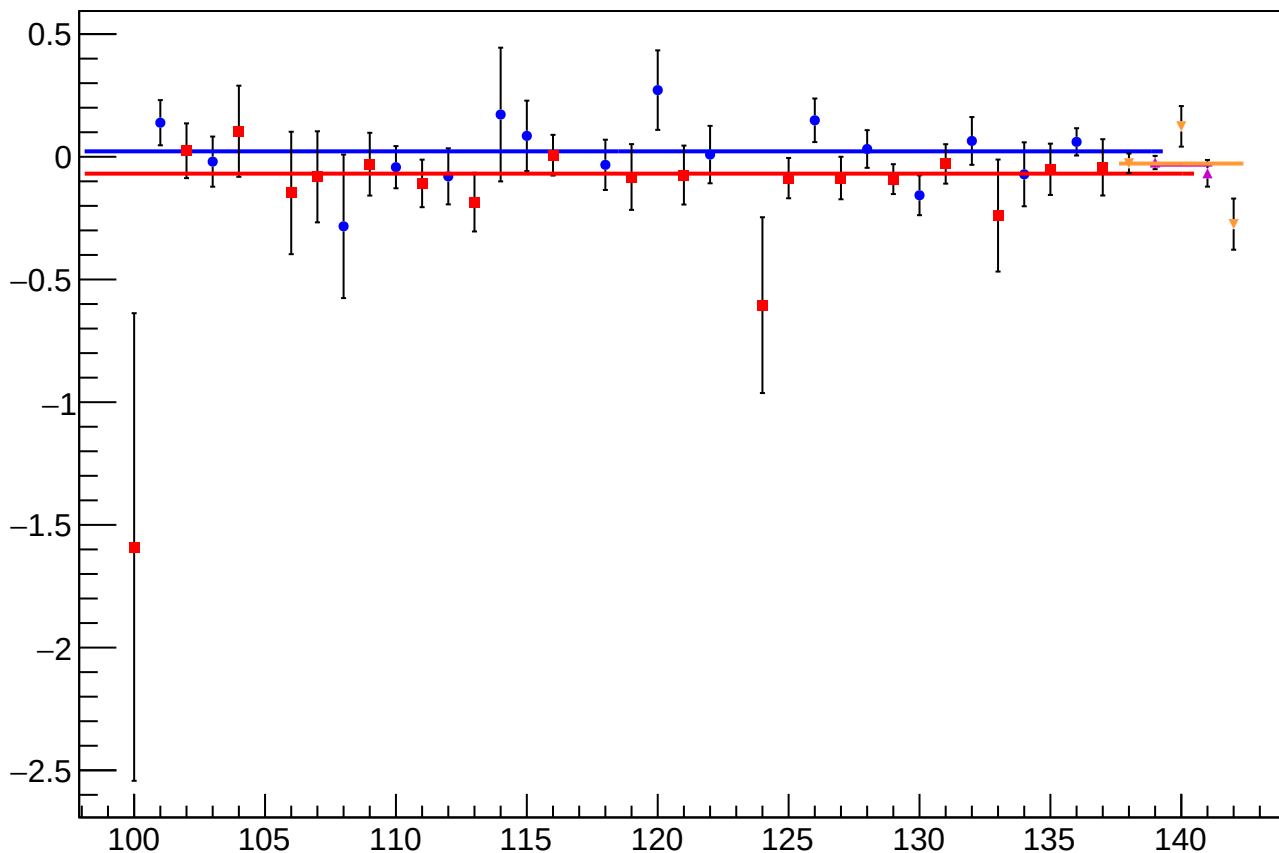
Out: 0.002+/-0.000

χ^2/NDF : 6694635.2/21

All: 0.002+/-0.000

χ^2/NDF : 12489236.2/39

asym_sam3_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.025 $\chi^2/\text{NDF}: 15.5/15$

Left Out: -0.028 ± 0.034 $\chi^2/\text{NDF}: 9.0/2$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.032 ± 0.024 $\chi^2/\text{NDF}: 0.5/1$

Left: -0.031 ± 0.020 $\chi^2/\text{NDF}: 9.5/4$

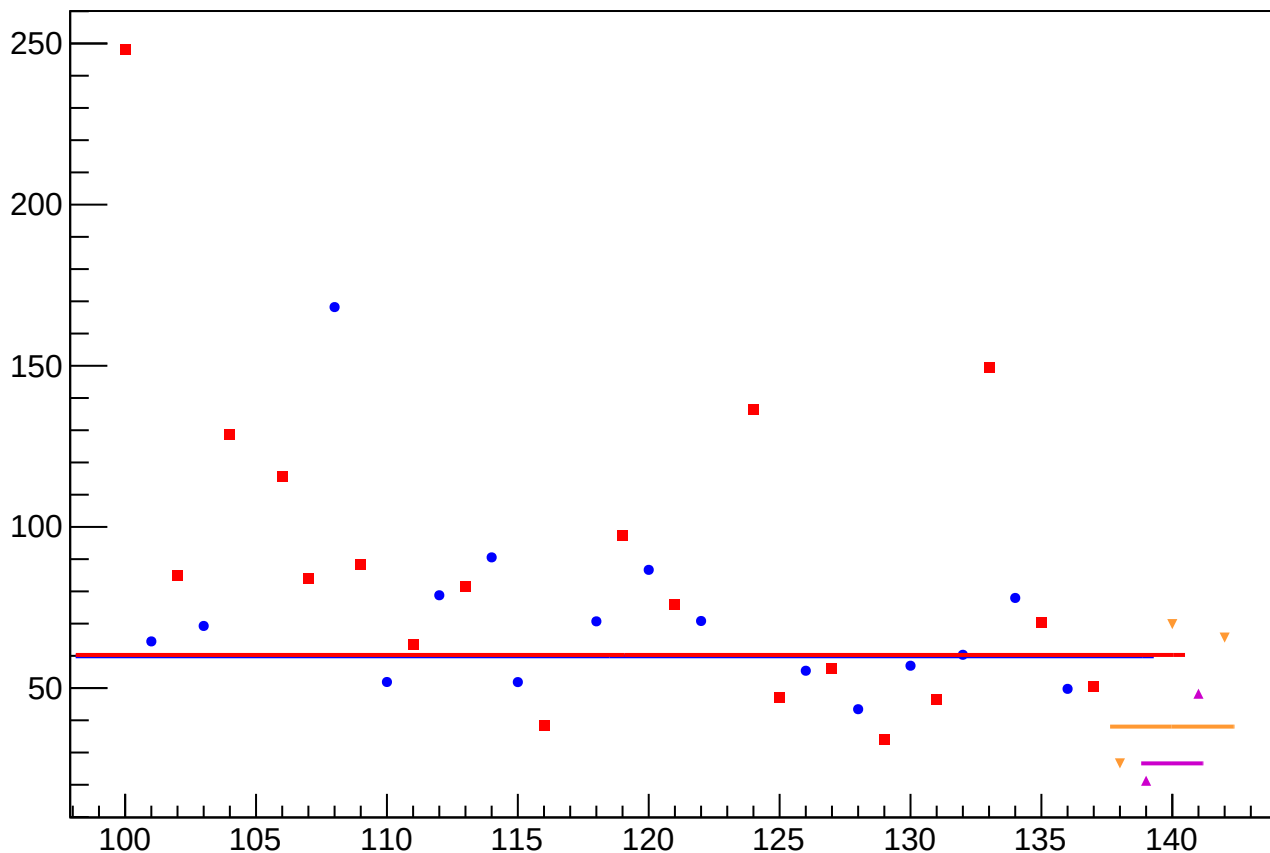
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.005 ± 0.017 $\chi^2/\text{NDF}: 18.5/17$

Out: -0.054 ± 0.020 $\chi^2/\text{NDF}: 19.5/21$

All: -0.026 ± 0.013 $\chi^2/\text{NDF}: 41.3/39$

asym_sam3_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.868 $\pm$ 0.017 χ^2 /NDF: 699008.9/15

Left Out: 38.043 $\pm$ 0.024 χ^2 /NDF: 600287.9/2

Right Out: 60.278 $\pm$ 0.018 χ^2 /NDF: 1977294.2/18

Left In: 26.633 $\pm$ 0.017 χ^2 /NDF: 394579.2/1

Left: 30.499 $\pm$ 0.014 χ^2 /NDF: 1144391.2/4

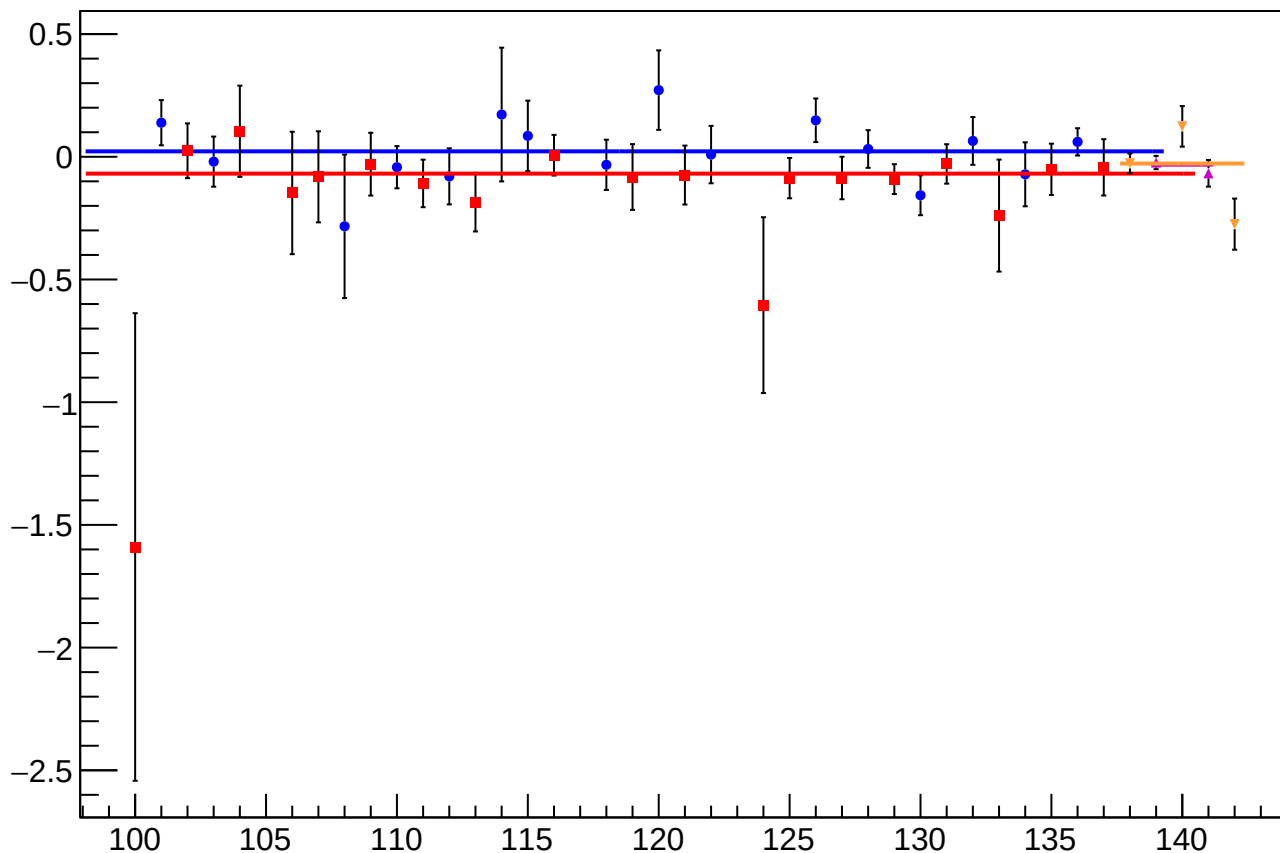
Right: 60.068 $\pm$ 0.012 χ^2 /NDF: 2676572.8/34

In: 42.990 $\pm$ 0.012 χ^2 /NDF: 2936241.7/17

Out: 52.342 $\pm$ 0.014 χ^2 /NDF: 3129965.4/21

All: 46.934 $\pm$ 0.009 χ^2 /NDF: 6312355.0/39

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.025 $\chi^2/\text{NDF}: 15.5/15$

Left Out: -0.028 ± 0.034 $\chi^2/\text{NDF}: 9.0/2$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.032 ± 0.024 $\chi^2/\text{NDF}: 0.5/1$

Left: -0.031 ± 0.020 $\chi^2/\text{NDF}: 9.5/4$

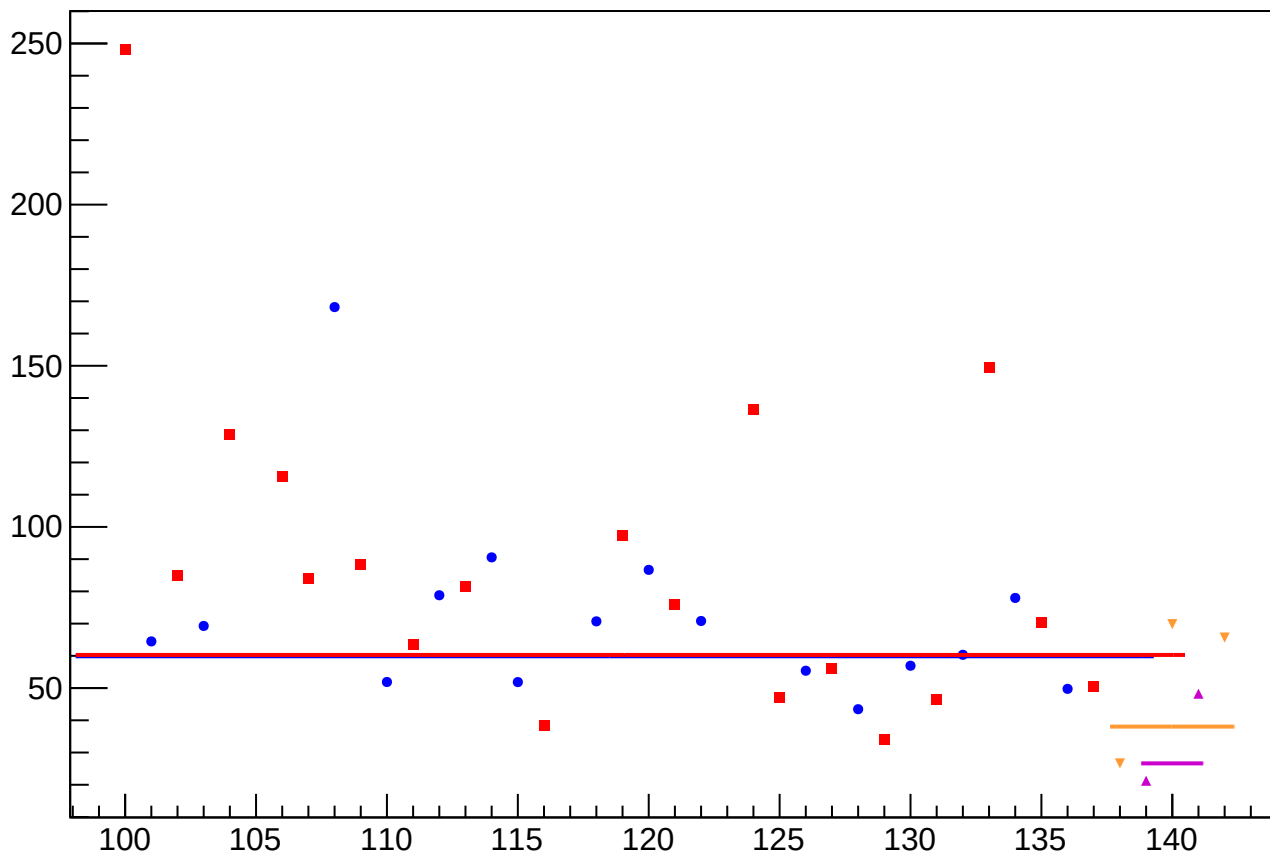
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.005 ± 0.017 $\chi^2/\text{NDF}: 18.5/17$

Out: -0.054 ± 0.020 $\chi^2/\text{NDF}: 19.5/21$

All: -0.026 ± 0.013 $\chi^2/\text{NDF}: 41.3/39$

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.868 $\pm$ 0.017 χ^2 /NDF: 699008.9/15

Left Out: 38.043 $\pm$ 0.024 χ^2 /NDF: 600287.9/2

Right Out: 60.278 $\pm$ 0.018 χ^2 /NDF: 1977294.2/18

Left In: 26.633 $\pm$ 0.017 χ^2 /NDF: 394579.2/1

Left: 30.499 $\pm$ 0.014 χ^2 /NDF: 1144391.2/4

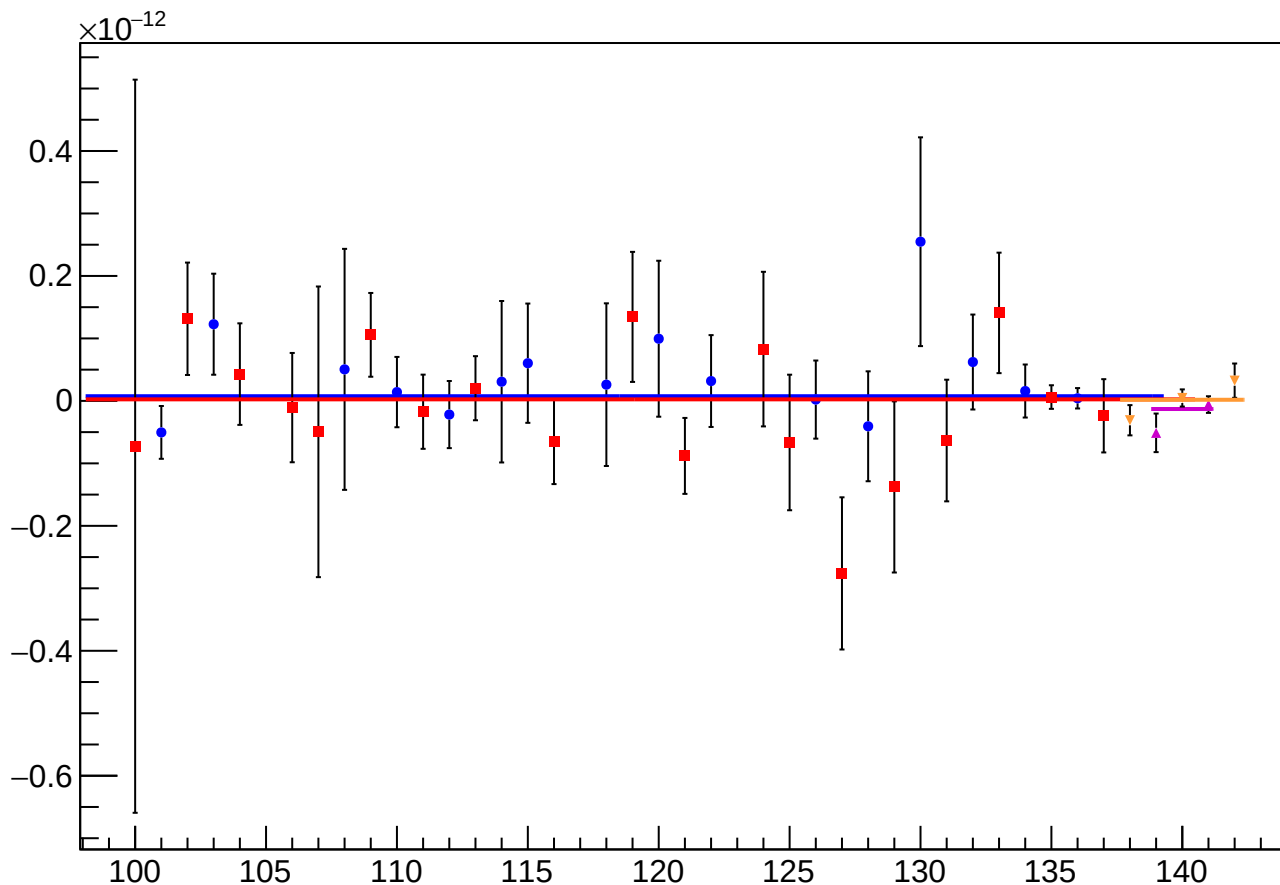
Right: 60.068 $\pm$ 0.012 χ^2 /NDF: 2676572.8/34

In: 42.990 $\pm$ 0.012 χ^2 /NDF: 2936241.7/17

Out: 52.342 $\pm$ 0.014 χ^2 /NDF: 3129965.4/21

All: 46.934 $\pm$ 0.009 χ^2 /NDF: 6312355.0/39

asym_sam3_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 8.4/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:3.1/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 19.7/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:1.8/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 5.7/4

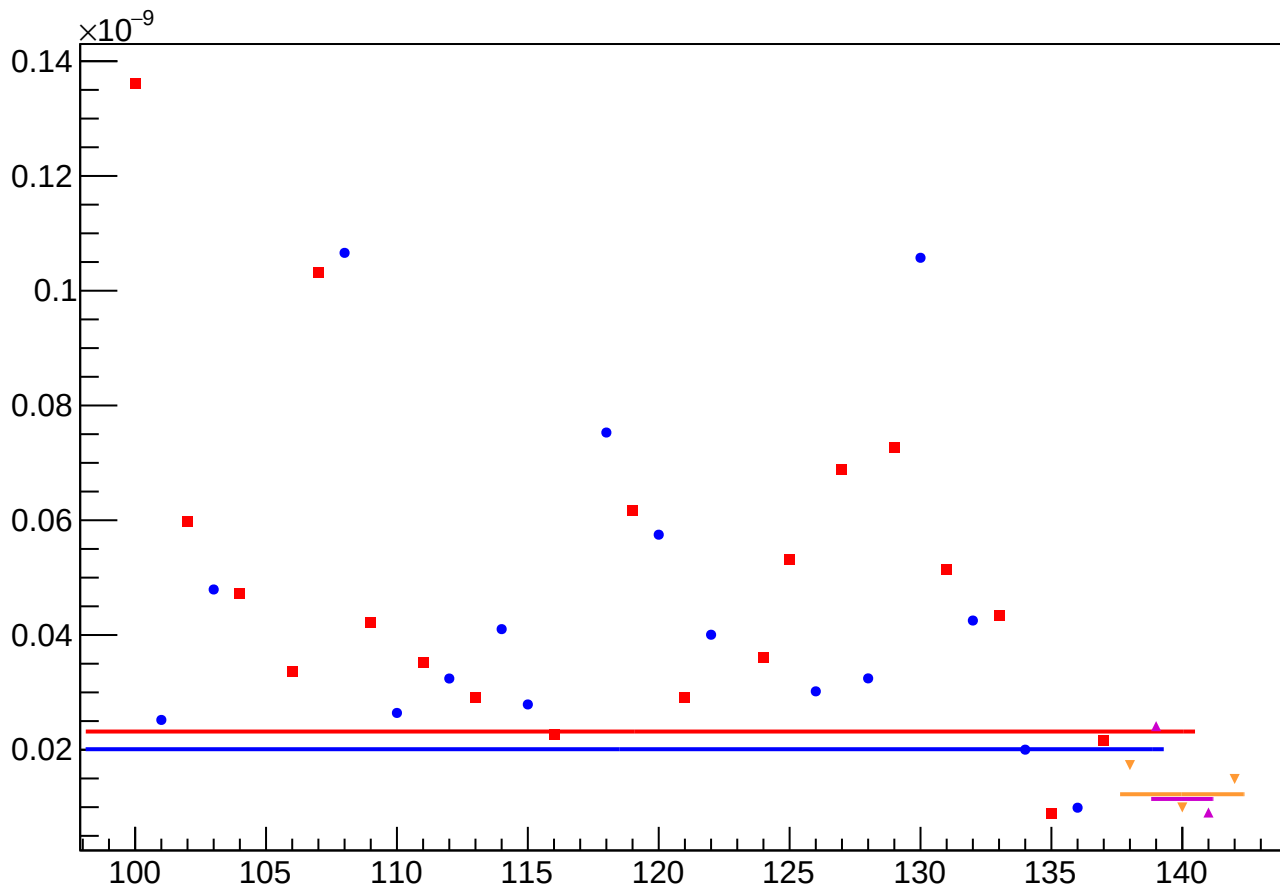
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 28.1/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:11.6/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:22.8/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 34.5/39

asym_sam3_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3121422.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :162682.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3530677.1/18

Left In: 0.000+/-0.000 χ^2/NDF :400965.8/1

Left: 0.000+/-0.000 χ^2/NDF : 568680.9/4

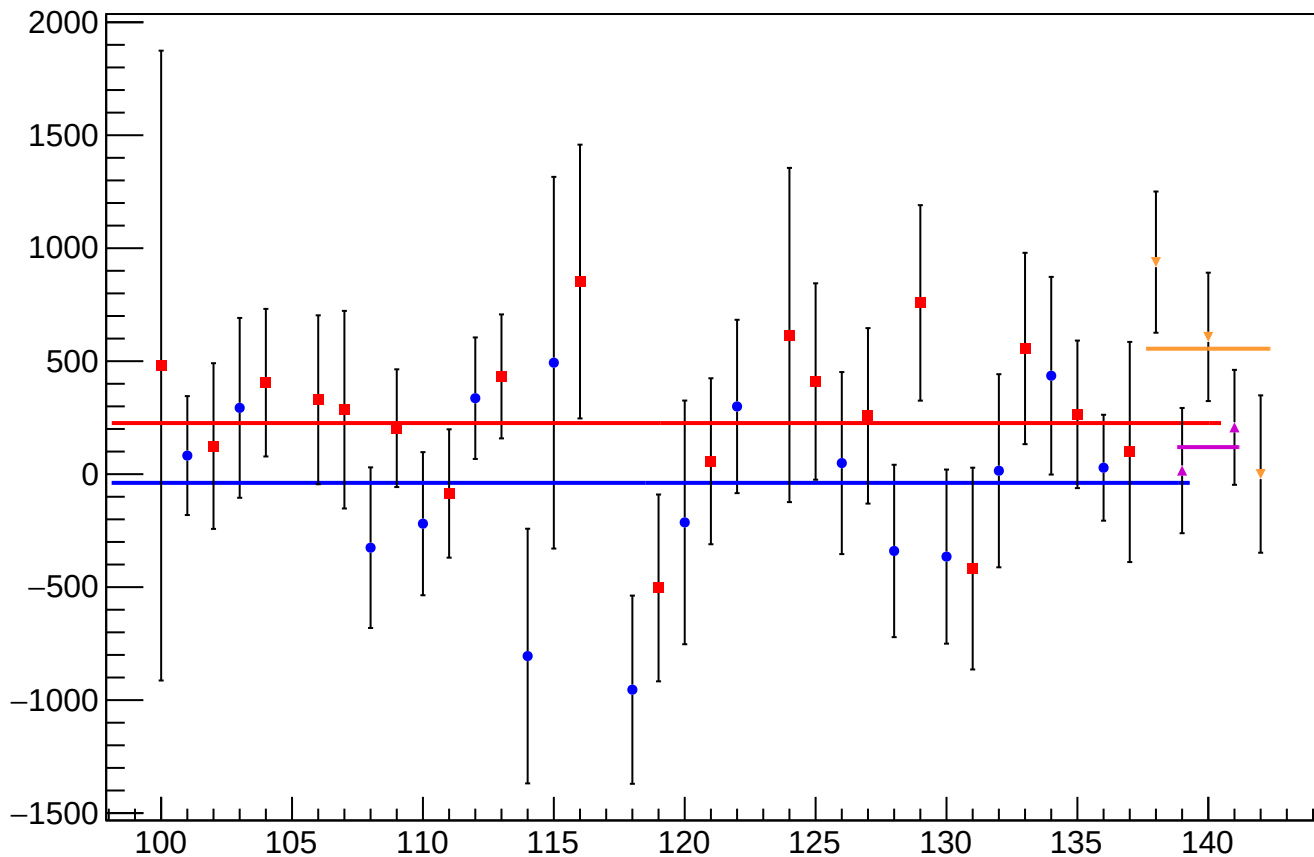
Right: 0.000+/-0.000 χ^2/NDF : 6709527.6/34

In: 0.000+/-0.000 χ^2/NDF :4028743.0/17

Out: 0.000+/-0.000 χ^2/NDF :4481420.8/21

All: 0.000+/-0.000 χ^2/NDF : 8518706.5/39

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -38.498 ± 90.619 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 555.157 ± 179.966 $\chi^2/\text{NDF}: 4.1/2$

Right Out: 226.168 ± 87.908 $\chi^2/\text{NDF}: 11.4/18$

Left In: 119.716 ± 187.399 $\chi^2/\text{NDF}: 0.3/1$

Left: 346.243 ± 129.803 $\chi^2/\text{NDF}: 7.1/4$

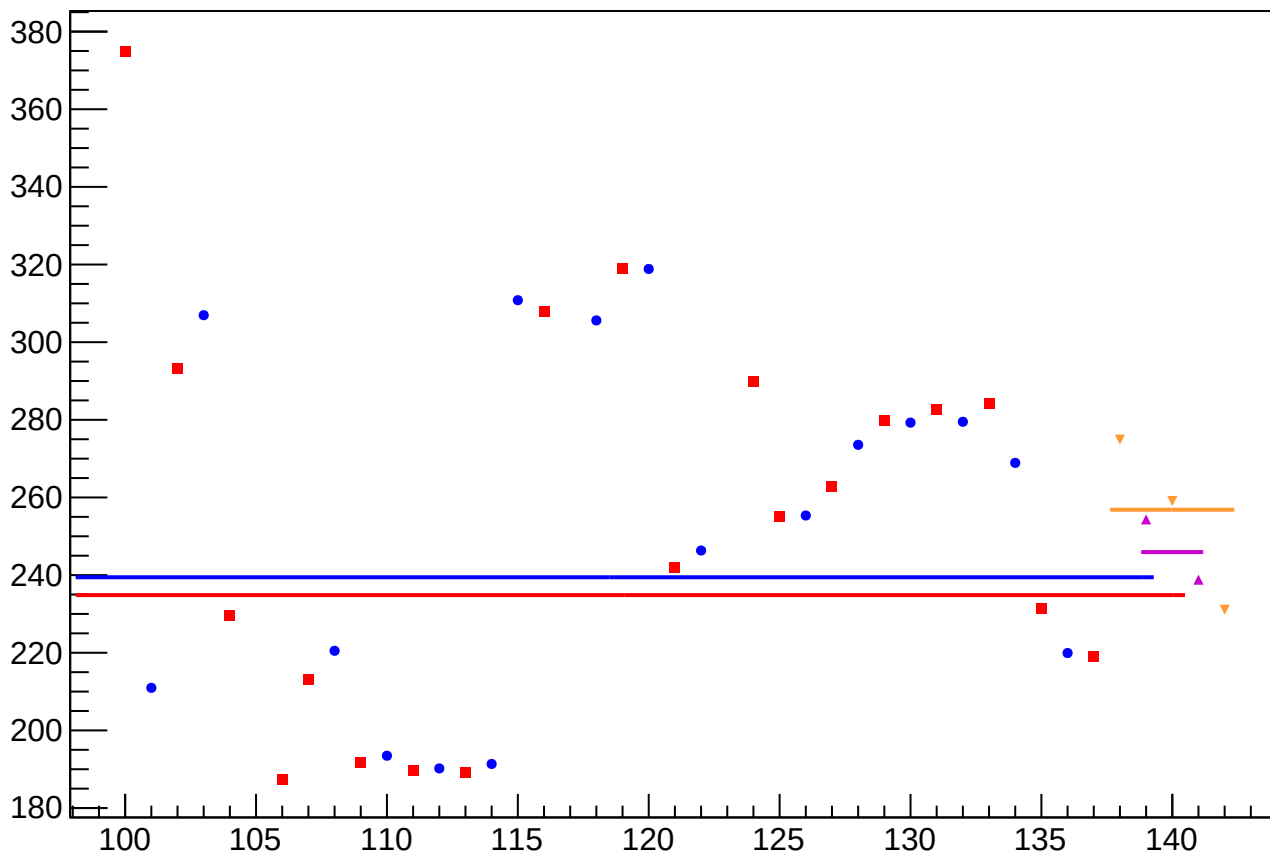
Right: 97.852 ± 63.097 $\chi^2/\text{NDF}: 30.3/34$

In: -8.514 ± 81.581 $\chi^2/\text{NDF}: 15.3/17$

Out: 289.544 ± 78.988 $\chi^2/\text{NDF}: 18.2/21$

All: 145.327 ± 56.748 $\chi^2/\text{NDF}: 40.4/39$

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 239.449 $\pm$ 0.064 χ^2 /NDF: 400955.7/15

Left Out: 256.844 $\pm$ 0.127 χ^2 /NDF:17737.5/2

Right Out: 234.855 $\pm$ 0.062 χ^2 /NDF: 481715.3/18

Left In: 245.933 $\pm$ 0.133 χ^2 /NDF:3406.3/1

Left: 251.609 $\pm$ 0.092 χ^2 /NDF: 24670.9/4

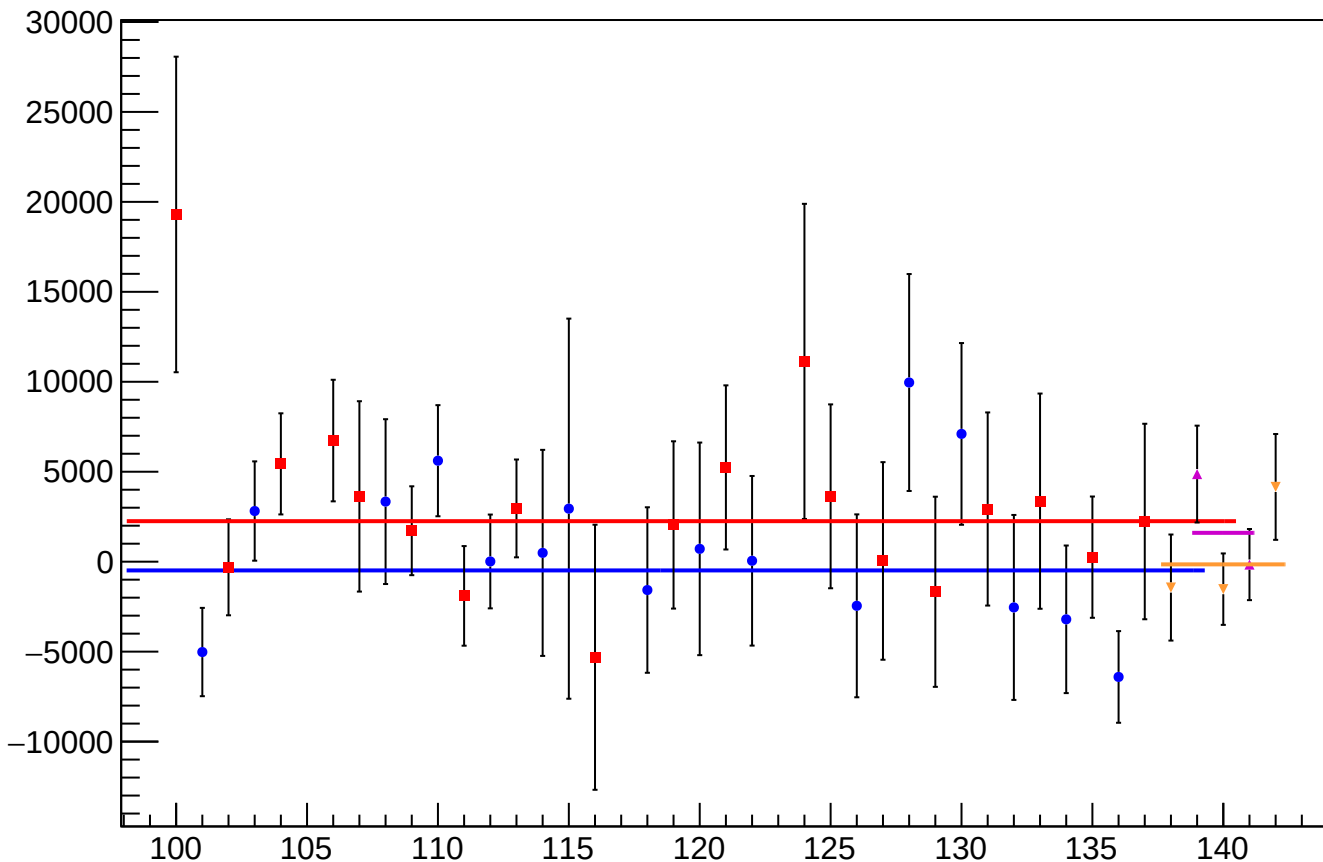
Right: 237.082 $\pm$ 0.045 χ^2 /NDF: 885319.7/34

In: 240.678 $\pm$ 0.058 χ^2 /NDF:406302.3/17

Out: 239.090 $\pm$ 0.056 χ^2 /NDF:523559.2/21

All: 239.858 $\pm$ 0.040 χ^2 /NDF: 930252.3/39

asym_sam4_reg_correction_mean vs Slug, Sign Corrected



Right In: -485.932+/-947.459 χ^2/NDF : 21.1/15

Left Out: -149.713+/-1436.798 χ^2/NDF : 2.8/2

Right Out: 2251.898+/-894.171 χ^2/NDF : 13.9/18

Left In: 1603.040+/-1593.239 χ^2/NDF : 2.3/1

Left: 636.409+/-1067.003 χ^2/NDF : 5.8/4

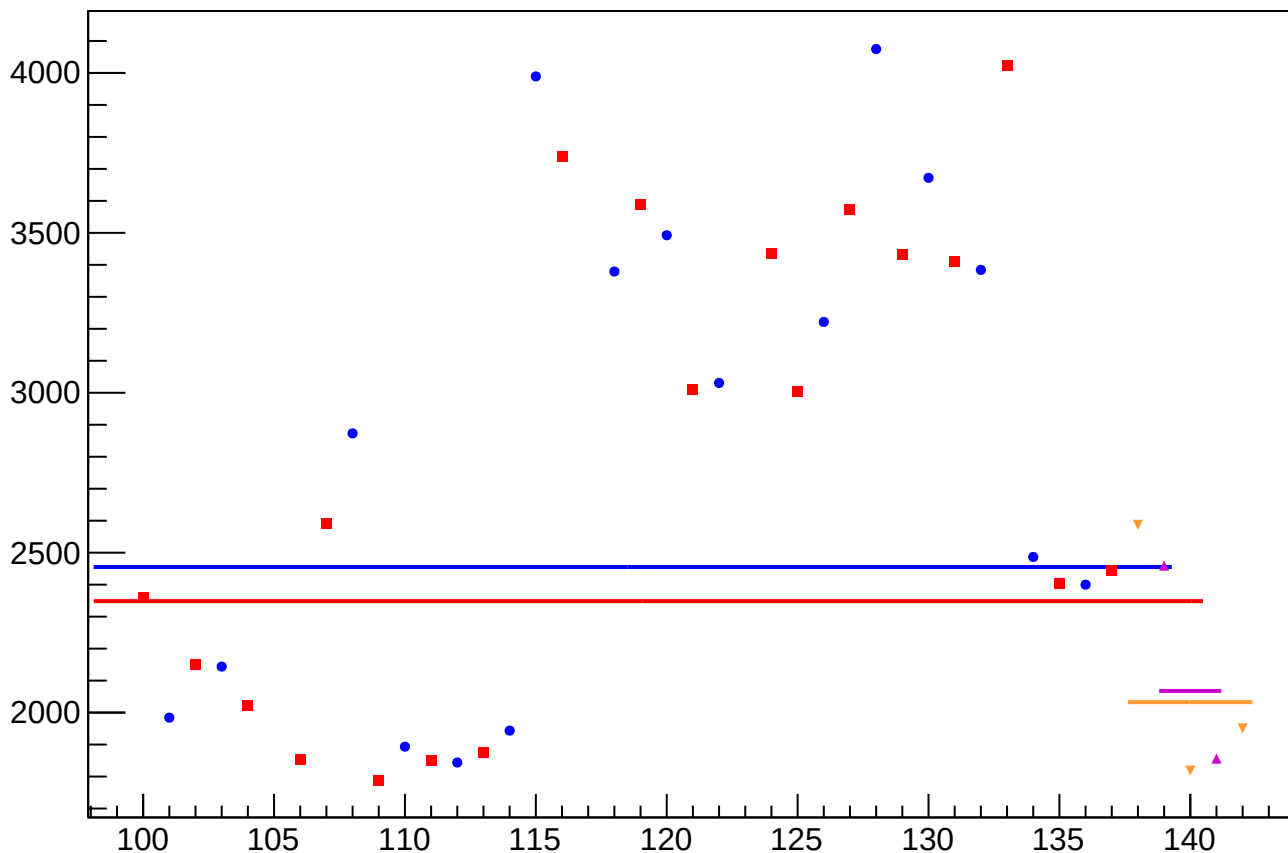
Right: 962.136+/-650.297 χ^2/NDF : 39.4/34

In: 59.812+/-814.346 χ^2/NDF : 24.7/17

Out: 1581.425+/-759.163 χ^2/NDF : 18.7/21

All: 873.916+/-555.294 χ^2/NDF : 45.3/39

asym_sam4_reg_correction_rms vs Slug, Sign Corrected



Right In: 2455.103+/-0.670 χ^2/NDF : 894389.6/15

Left Out: 2032.645+/-1.016 χ^2/NDF : 95549.7/2

Right Out: 2348.446+/-0.632 χ^2/NDF : 1052421.6/18

Left In: 2067.686+/-1.127 χ^2/NDF : 65304.5/1

Left: 2048.361+/-0.754 χ^2/NDF : 161387.8/4

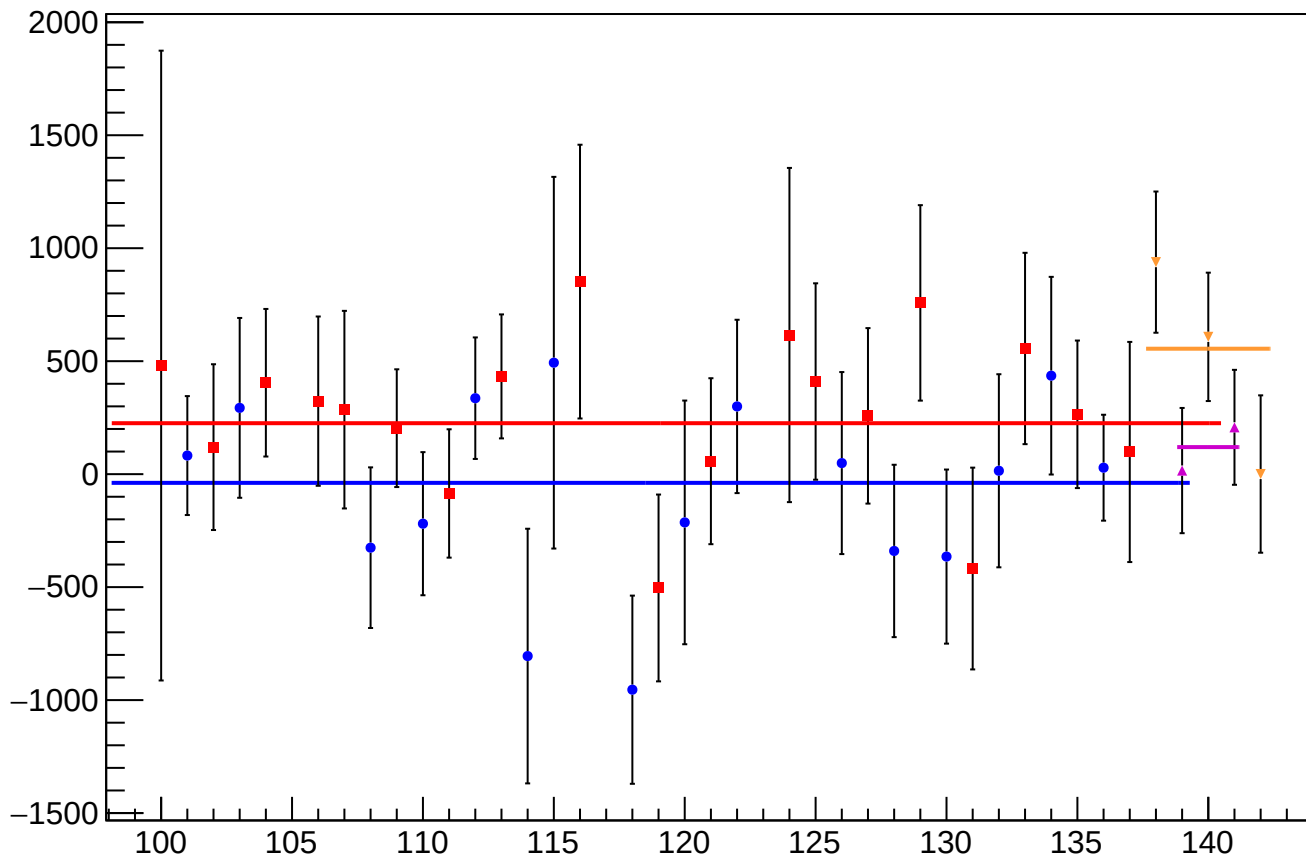
Right: 2398.691+/-0.460 χ^2/NDF : 1960216.3/34

In: 2353.890+/-0.576 χ^2/NDF : 1047056.0/17

Out: 2260.282+/-0.537 χ^2/NDF : 1217617.3/21

All: 2303.807+/-0.393 χ^2/NDF : 2278812.3/39

cor_asym_sam4_mean vs Slug, Sign Corrected



Right In: -38.519 ± 90.619 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 555.179 ± 179.966 $\chi^2/\text{NDF}: 4.1/2$

Right Out: 225.515 ± 87.922 $\chi^2/\text{NDF}: 11.4/18$

Left In: 119.738 ± 187.399 $\chi^2/\text{NDF}: 0.3/1$

Left: 346.265 ± 129.803 $\chi^2/\text{NDF}: 7.1/4$

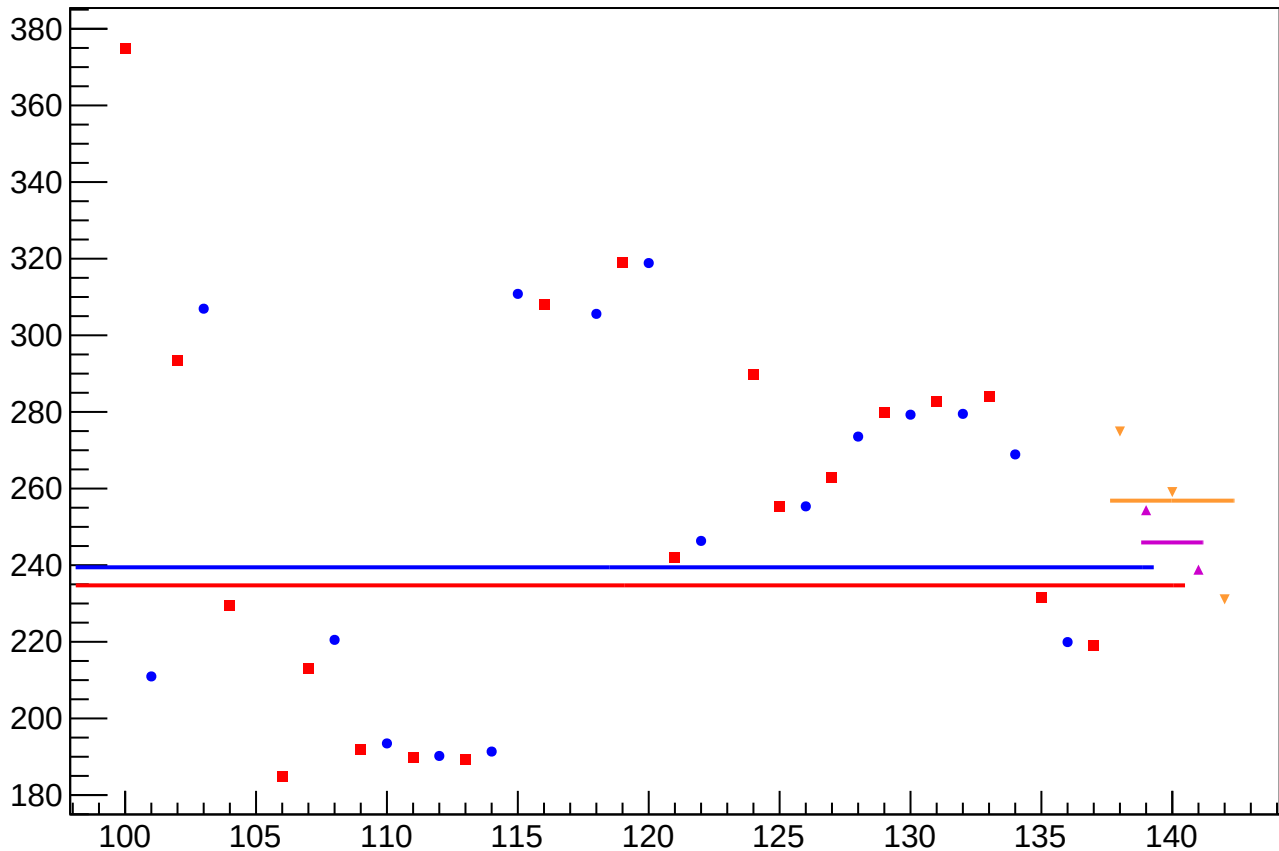
Right: 97.485 ± 63.102 $\chi^2/\text{NDF}: 30.3/34$

In: -8.527 ± 81.581 $\chi^2/\text{NDF}: 15.3/17$

Out: 289.037 ± 78.998 $\chi^2/\text{NDF}: 18.2/21$

All: 145.040 ± 56.751 $\chi^2/\text{NDF}: 40.4/39$

cor_asym_sam4_rms vs Slug, Sign Corrected



Right In: 239.449 $\pm$ 0.064 χ^2 /NDF: 400958.1/15

Left Out: 256.844 $\pm$ 0.127 χ^2 /NDF:17737.5/2

Right Out: 234.733 $\pm$ 0.062 χ^2 /NDF: 485238.4/18

Left In: 245.933 $\pm$ 0.133 χ^2 /NDF:3406.3/1

Left: 251.609 $\pm$ 0.092 χ^2 /NDF: 24670.9/4

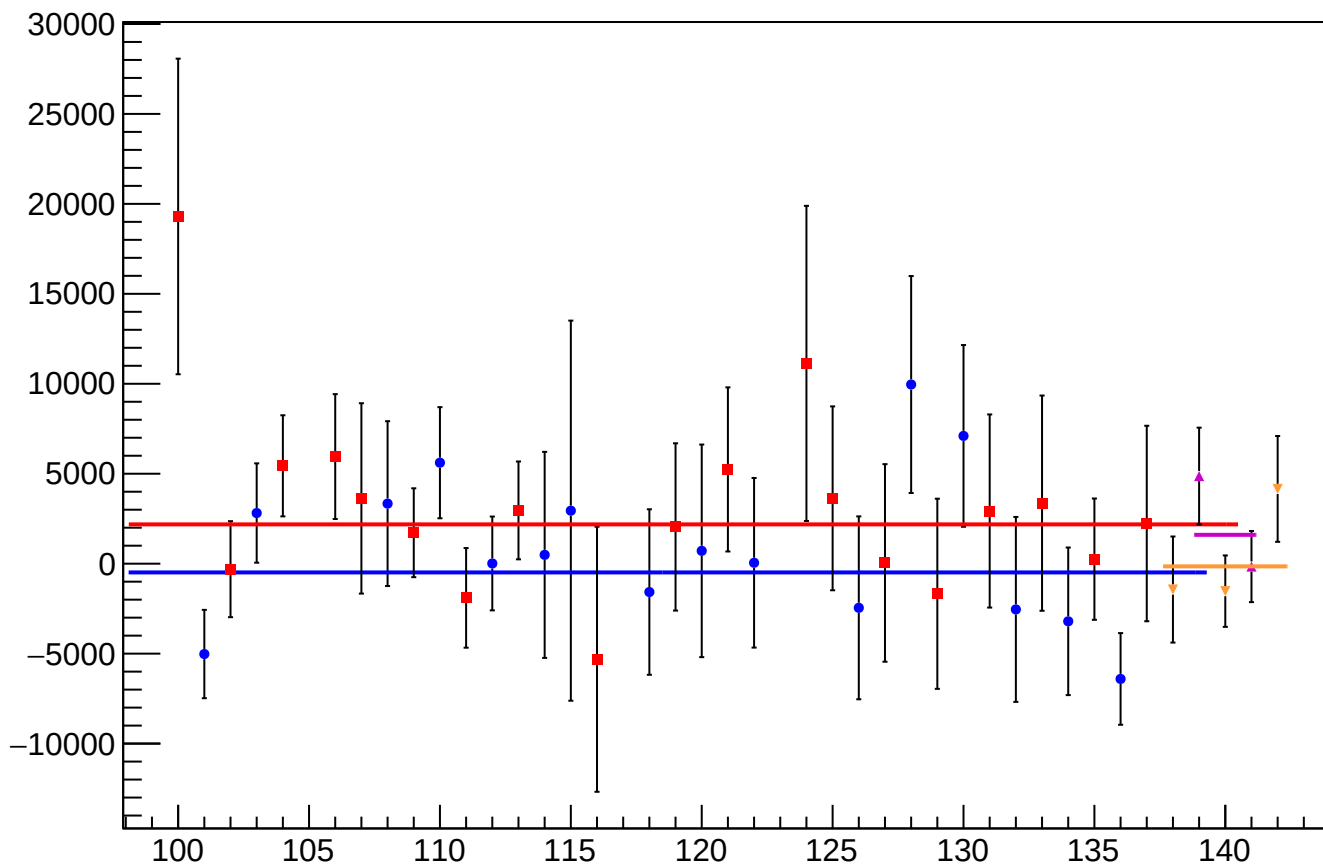
Right: 237.020 $\pm$ 0.045 χ^2 /NDF: 888987.0/34

In: 240.678 $\pm$ 0.058 χ^2 /NDF:406304.7/17

Out: 238.993 $\pm$ 0.056 χ^2 /NDF:527348.4/21

All: 239.808 $\pm$ 0.040 χ^2 /NDF: 934093.1/39

asym_sam4_cor_correction_mean vs Slug, Sign Corrected



Right In: -486.103+/-947.467 χ^2/NDF : 21.1/15

Left Out: -149.687+/-1436.796 χ^2/NDF : 2.8/2

Right Out: 2184.834+/-895.863 χ^2/NDF : 13.3/18

Left In: 1603.102+/-1593.240 χ^2/NDF : 2.3/1

Left: 636.450+/-1067.003 χ^2/NDF : 5.8/4

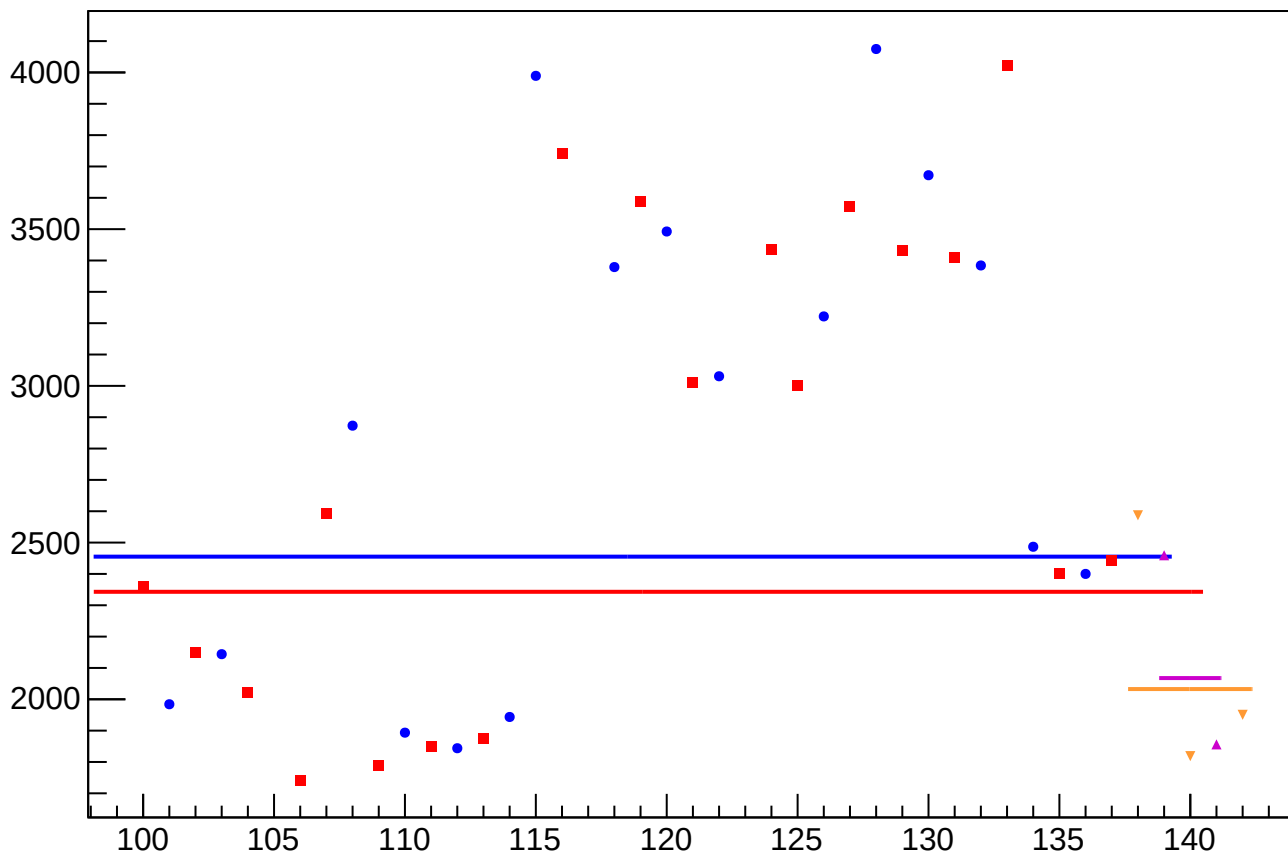
Right: 924.081+/-650.950 χ^2/NDF : 38.6/34

In: 59.708+/-814.352 χ^2/NDF : 24.7/17

Out: 1531.313+/-760.197 χ^2/NDF : 18.0/21

All: 846.065+/-555.700 χ^2/NDF : 44.4/39

asym_sam4_cor_correction_rms vs Slug, Sign Corrected



Right In: 2455.127+/-0.670 χ^2/NDF : 894358.3/15

Left Out: 2032.642+/-1.016 χ^2/NDF : 95549.8/2

Right Out: 2342.955+/-0.633 χ^2/NDF : 1070387.8/18

Left In: 2067.688+/-1.127 χ^2/NDF : 65303.5/1

Left: 2048.360+/-0.754 χ^2/NDF : 161387.0/4

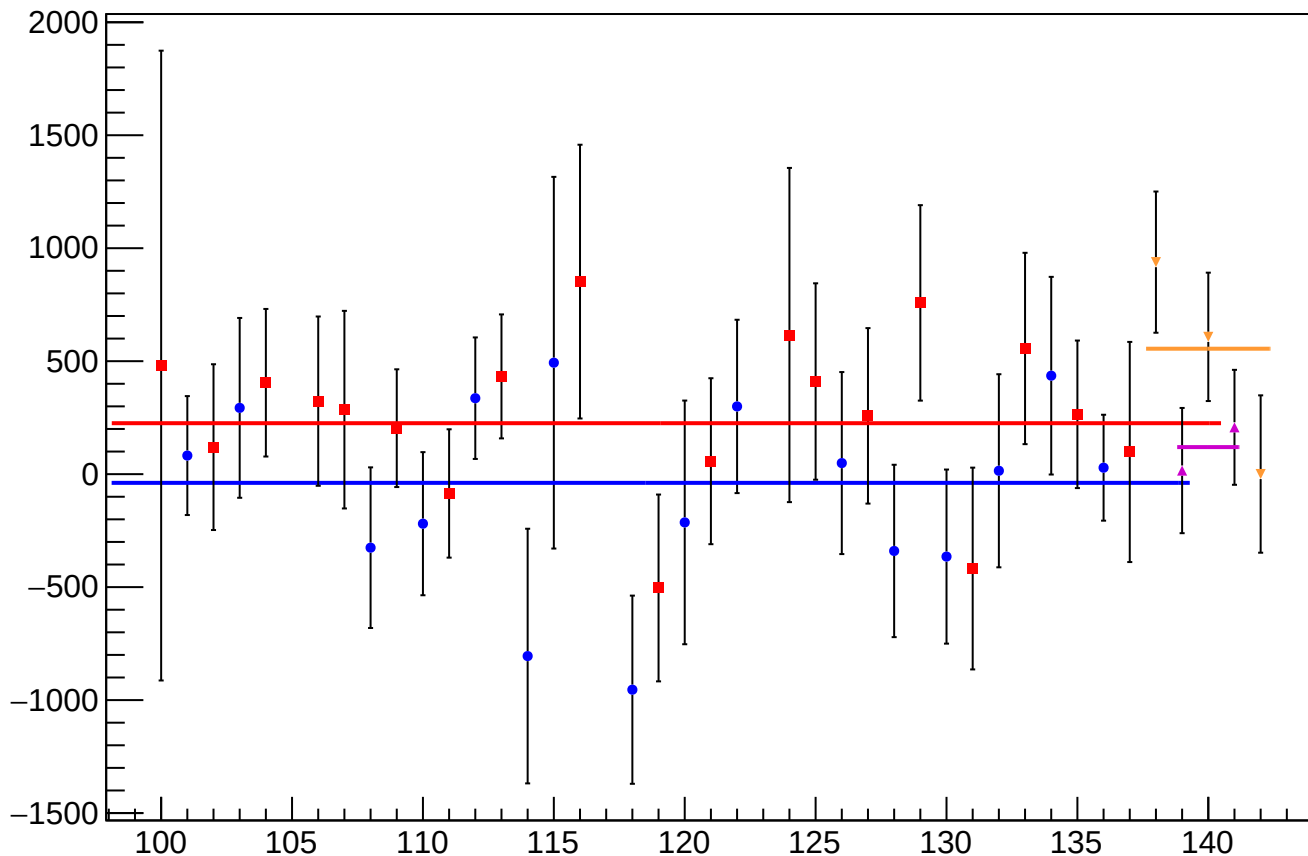
Right: 2395.904+/-0.460 χ^2/NDF : 1979546.8/34

In: 2353.908+/-0.576 χ^2/NDF : 1047033.6/17

Out: 2256.087+/-0.538 χ^2/NDF : 1233112.9/21

All: 2301.637+/-0.393 χ^2/NDF : 2295566.9/39

eigen_cor_asym_sam4_mean vs Slug, Sign Corrected



Right In: -38.519+/-90.619 χ^2/NDF : 14.5/15

Left Out: 555.179+/-179.966 χ^2/NDF : 4.1/2

Right Out: 225.515+/-87.922 χ^2/NDF : 11.4/18

Left In: 119.738+/-187.399 χ^2/NDF : 0.3/1

Left: 346.265+/-129.803 χ^2/NDF : 7.1/4

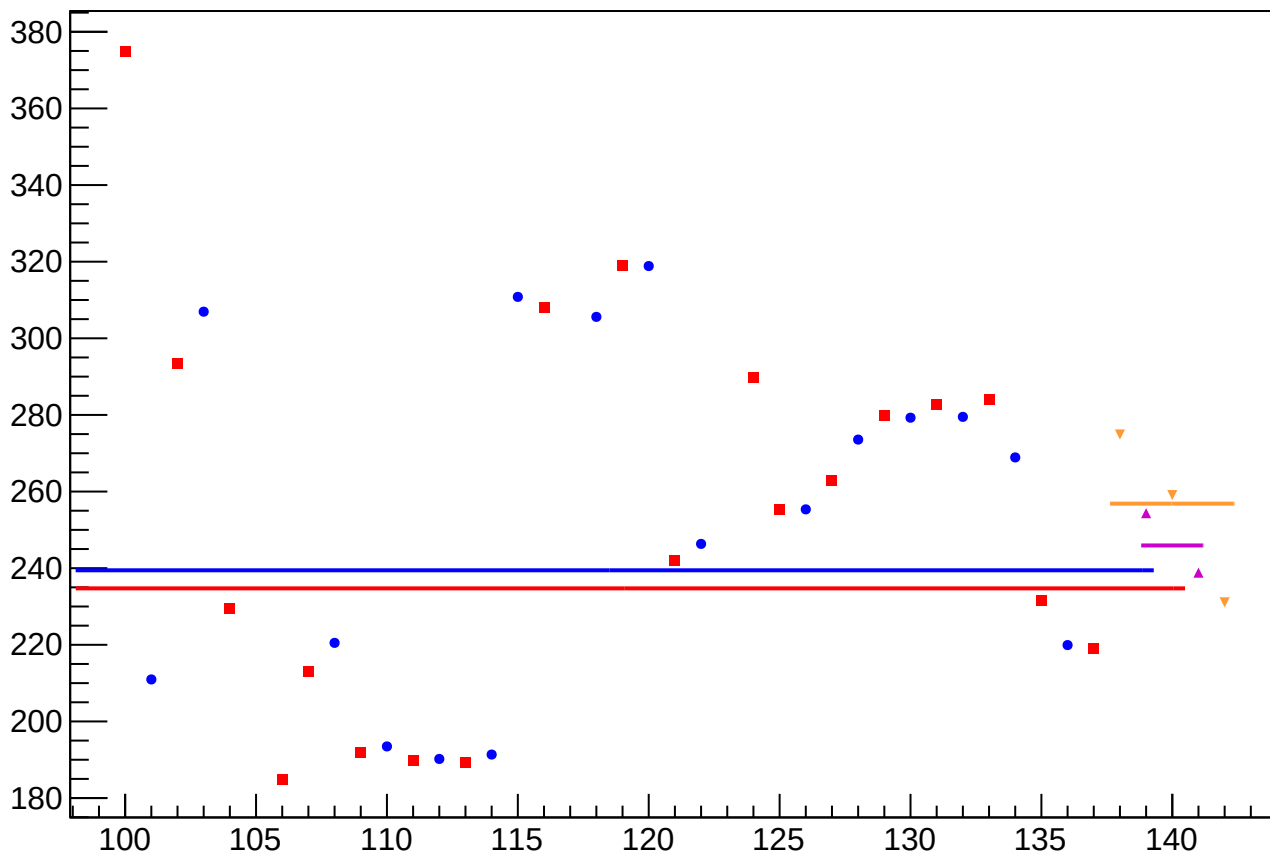
Right: 97.485+/-63.102 χ^2/NDF : 30.3/34

In: -8.527+/-81.581 χ^2/NDF : 15.3/17

Out: 289.037+/-78.998 χ^2/NDF : 18.2/21

All: 145.040+/-56.751 χ^2/NDF : 40.4/39

eigen_cor_asym_sam4_rms vs Slug, Sign Corrected



Right In: 239.449+/-0.064 χ^2/NDF : 400958.1/15

Left Out: 256.844+/-0.127 χ^2/NDF :17737.5/2

Right Out: 234.733+/-0.062 χ^2/NDF : 485238.4/18

Left In: 245.933+/-0.133 χ^2/NDF :3406.3/1

Left: 251.609+/-0.092 χ^2/NDF : 24670.9/4

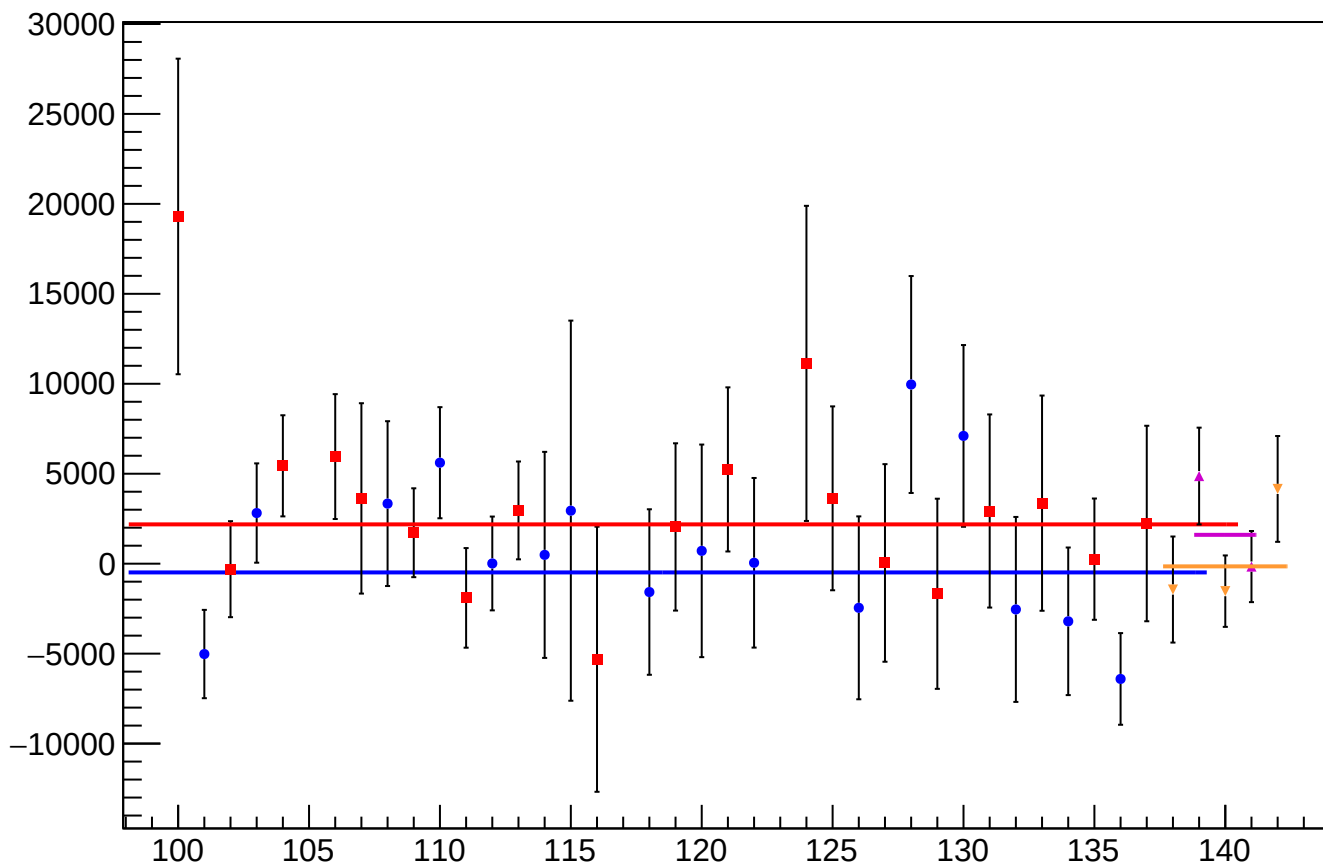
Right: 237.020+/-0.045 χ^2/NDF : 888987.0/34

In: 240.678+/-0.058 χ^2/NDF :406304.7/17

Out: 238.993+/-0.056 χ^2/NDF :527348.4/21

All: 239.808+/-0.040 χ^2/NDF : 934093.1/39

asym_sam4_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -486.103+/-947.467 χ^2/NDF : 21.1/15

Left Out: -149.687+/-1436.796 χ^2/NDF : 2.8/2

Right Out: 2184.834+/-895.863 χ^2/NDF : 13.3/18

Left In: 1603.102+/-1593.240 χ^2/NDF : 2.3/1

Left: 636.450+/-1067.003 χ^2/NDF : 5.8/4

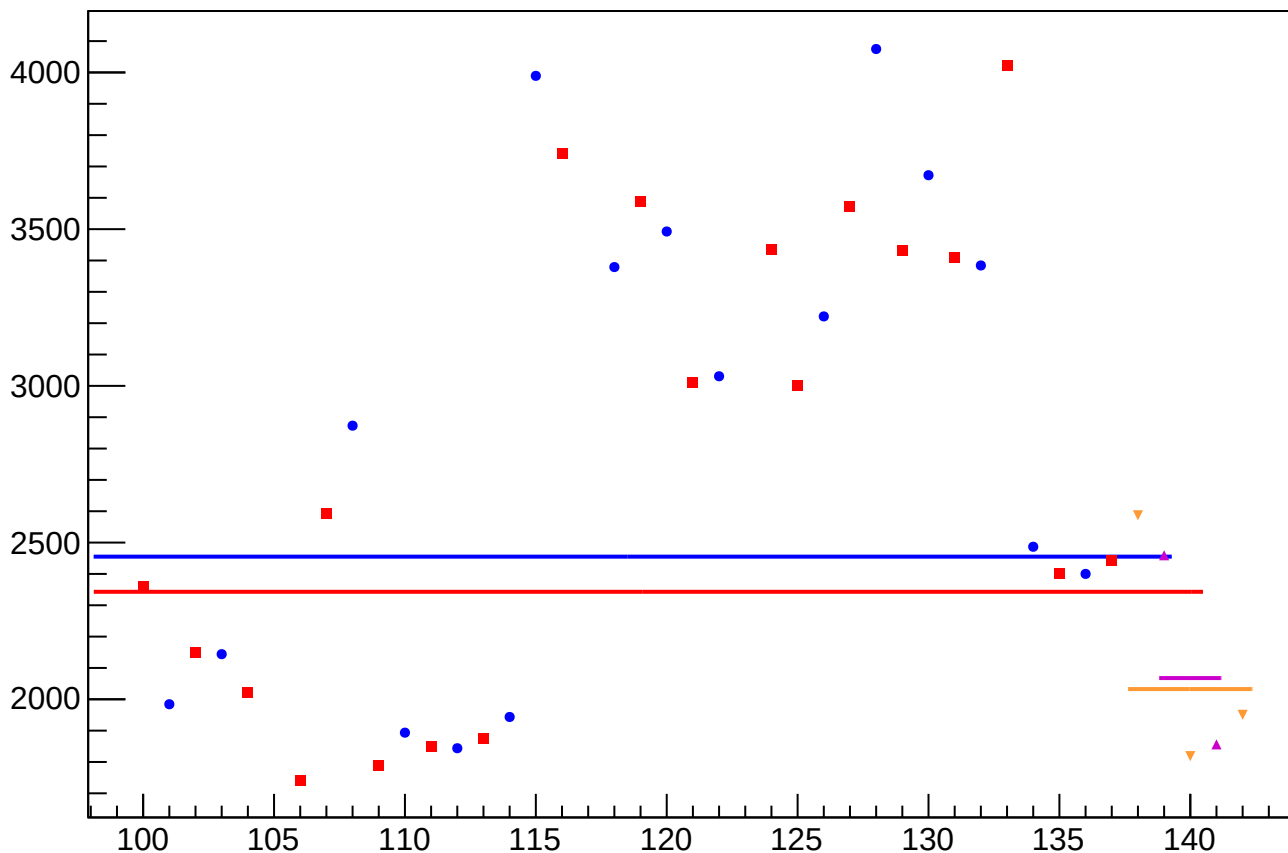
Right: 924.081+/-650.950 χ^2/NDF : 38.6/34

In: 59.708+/-814.352 χ^2/NDF : 24.7/17

Out: 1531.313+/-760.197 χ^2/NDF : 18.0/21

All: 846.065+/-555.700 χ^2/NDF : 44.4/39

asym_sam4_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2455.127+/-0.670 χ^2/NDF : 894358.3/15

Left Out: 2032.642+/-1.016 χ^2/NDF : 95549.8/2

Right Out: 2342.955+/-0.633 χ^2/NDF : 1070387.8/18

Left In: 2067.688+/-1.127 χ^2/NDF : 65303.5/1

Left: 2048.360+/-0.754 χ^2/NDF : 161387.0/4

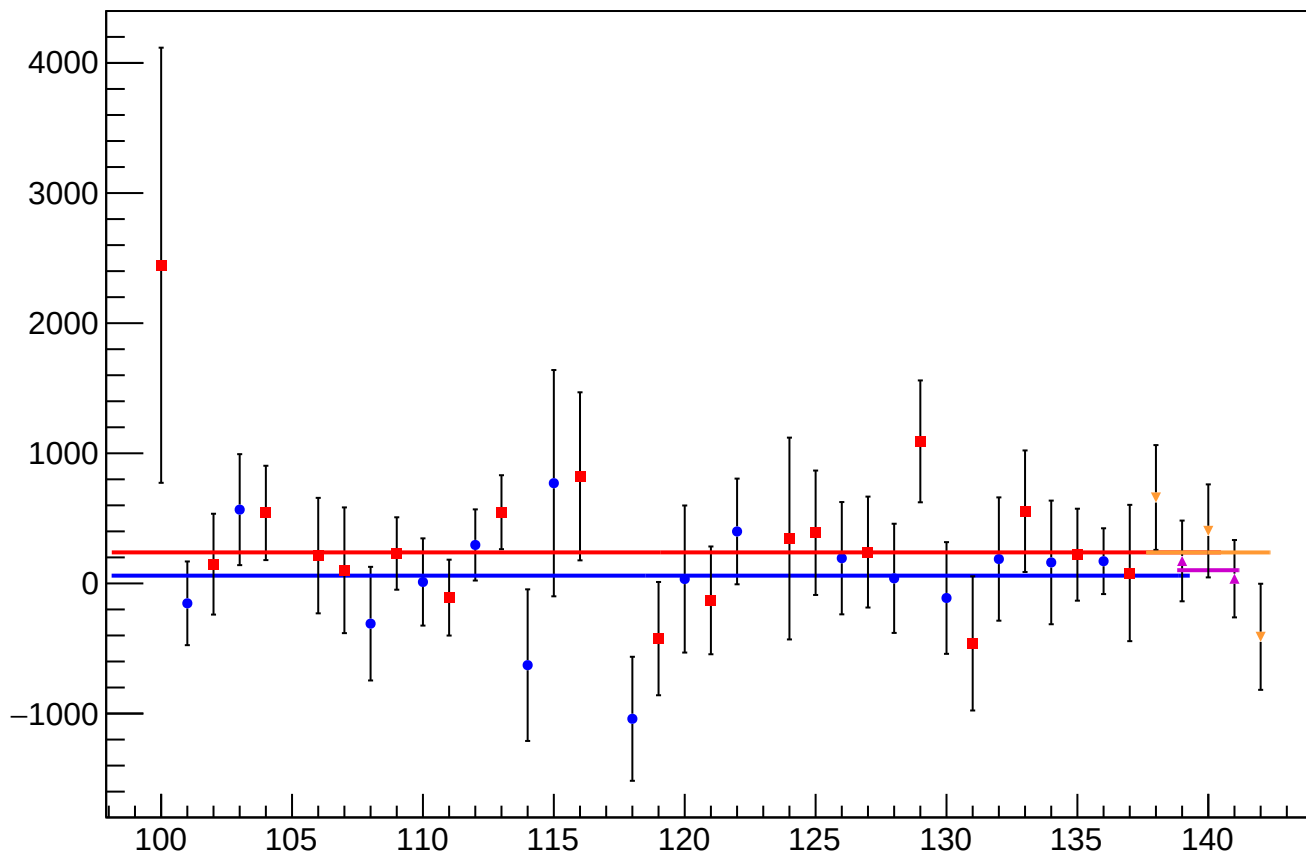
Right: 2395.904+/-0.460 χ^2/NDF : 1979546.8/34

In: 2353.908+/-0.576 χ^2/NDF : 1047033.6/17

Out: 2256.087+/-0.538 χ^2/NDF : 1233112.9/21

All: 2301.637+/-0.393 χ^2/NDF : 2295566.9/39

dit_asym_sam4_mean vs Slug, Sign Corrected



Right In: 59.728 $\pm$ 99.230 χ^2/NDF : 12.0/15

Left Out: 238.065 $\pm$ 223.562 χ^2/NDF : 3.8/2

Right Out: 238.516 $\pm$ 95.062 χ^2/NDF : 14.9/18

Left In: 101.581 $\pm$ 214.611 χ^2/NDF : 0.1/1

Left: 167.036 $\pm$ 154.821 χ^2/NDF : 4.1/4

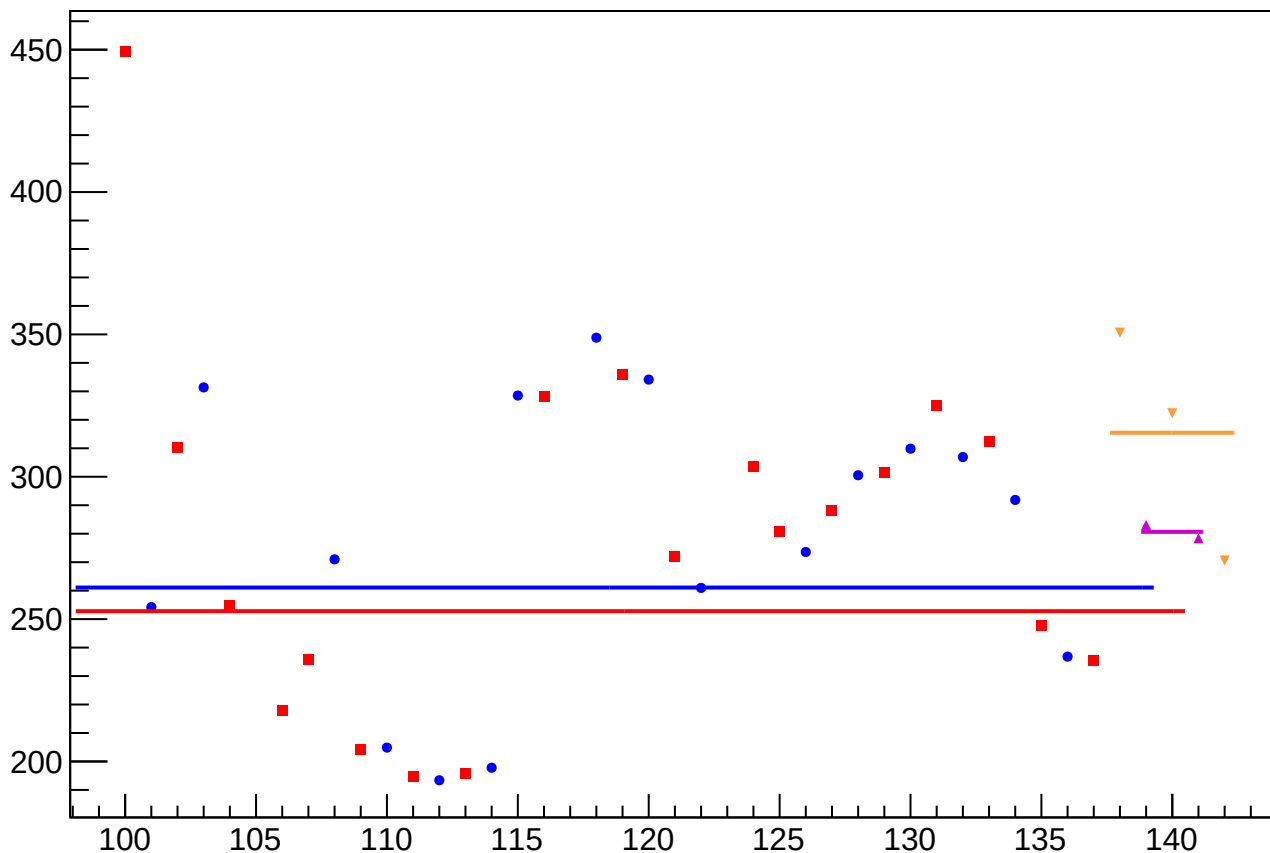
Right: 152.955 $\pm$ 68.645 χ^2/NDF : 28.6/34

In: 67.100 $\pm$ 90.068 χ^2/NDF : 12.1/17

Out: 238.447 $\pm$ 87.482 χ^2/NDF : 18.8/21

All: 155.268 $\pm$ 62.753 χ^2/NDF : 32.8/39

dit_asym_sam4_rms vs Slug, Sign Corrected



Right In: 261.089 $\pm$ 0.070 χ^2 /NDF: 462662.2/15

Left Out: 315.459 $\pm$ 0.158 χ^2 /NDF: 40182.8/2

Right Out: 252.787 $\pm$ 0.067 χ^2 /NDF: 537290.6/18

Left In: 280.649 $\pm$ 0.152 χ^2 /NDF: 240.1/1

Left: 297.343 $\pm$ 0.109 χ^2 /NDF: 65658.3/4

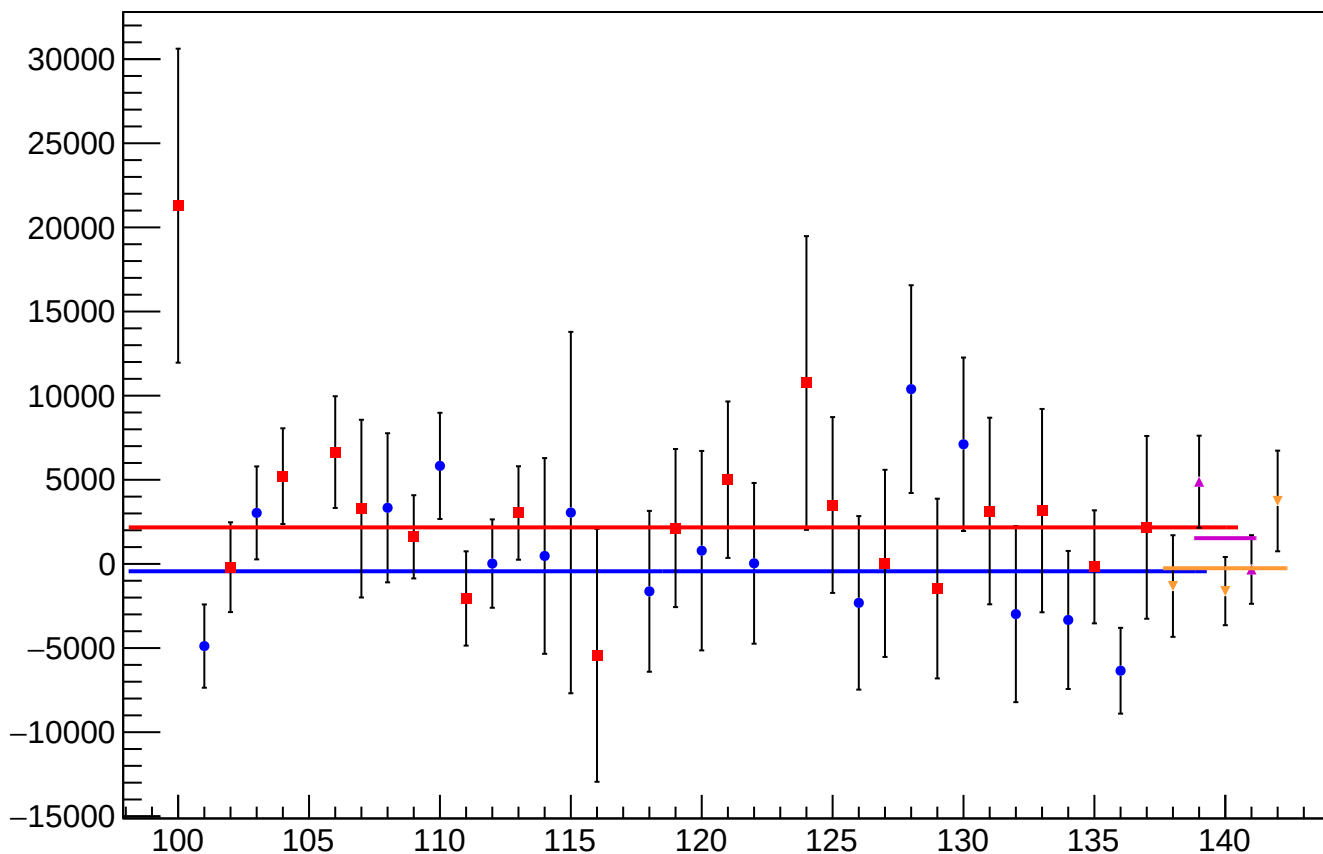
Right: 256.760 $\pm$ 0.049 χ^2 /NDF: 1007252.4/34

In: 264.534 $\pm$ 0.064 χ^2 /NDF: 476589.7/17

Out: 262.384 $\pm$ 0.062 χ^2 /NDF: 710582.1/21

All: 263.428 $\pm$ 0.044 χ^2 /NDF: 1187758.4/39

asym_sam4_dit_correction_mean vs Slug, Sign Corrected



Right In: -436.732+/-955.134 χ^2/NDF : 21.2/15

Left Out: -255.913+/-1466.800 χ^2/NDF : 2.4/2

Right Out: 2172.091+/-901.102 χ^2/NDF : 14.0/18

Left In: 1530.235+/-1634.774 χ^2/NDF : 2.3/1

Left: 540.710+/-1091.756 χ^2/NDF : 5.4/4

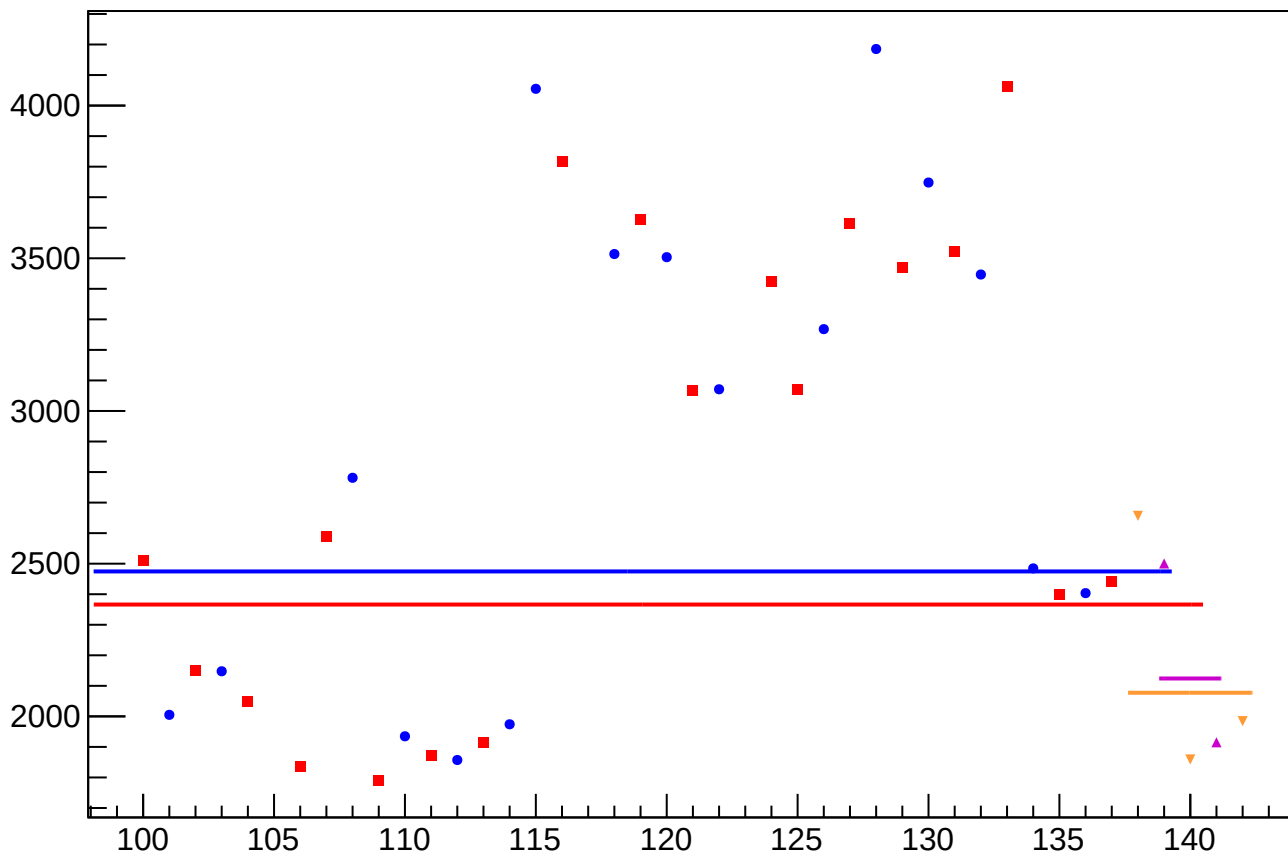
Right: 943.553+/-655.445 χ^2/NDF : 39.1/34

In: 63.837+/-824.691 χ^2/NDF : 24.6/17

Out: 1506.826+/-767.792 χ^2/NDF : 18.3/21

All: 836.825+/-561.950 χ^2/NDF : 44.6/39

asym_sam4_dit_correction_rms vs Slug, Sign Corrected



Right In: 2474.622 $\pm$ 0.675 χ^2 /NDF: 916250.9/15

Left Out: 2077.380 $\pm$ 1.037 χ^2 /NDF: 98753.0/2

Right Out: 2366.221 $\pm$ 0.637 χ^2 /NDF: 1077175.3/18

Left In: 2124.080 $\pm$ 1.156 χ^2 /NDF: 58876.3/1

Left: 2098.208 $\pm$ 0.772 χ^2 /NDF: 158533.4/4

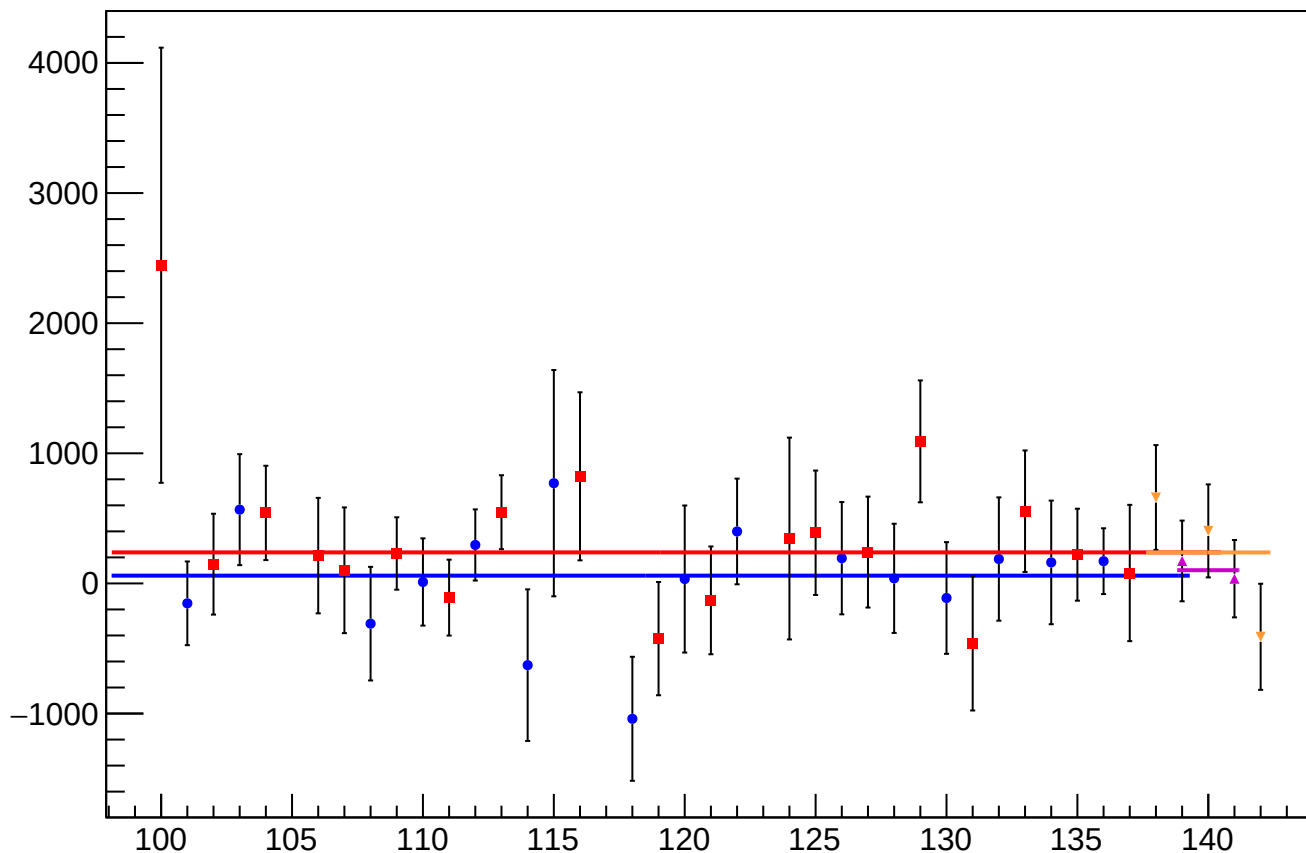
Right: 2417.269 $\pm$ 0.463 χ^2 /NDF: 2007056.0/34

In: 2385.413 $\pm$ 0.583 χ^2 /NDF: 1043683.9/17

Out: 2287.080 $\pm$ 0.543 χ^2 /NDF: 1232233.1/21

All: 2332.737 $\pm$ 0.397 χ^2 /NDF: 2291149.1/39

eigen_dit_asym_sam4_mean vs Slug, Sign Corrected



Right In: 59.734 $\pm$ 99.230 χ^2 /NDF: 12.0/15

Left Out: 238.070 $\pm$ 223.562 χ^2 /NDF:3.8/2

Right Out: 238.515 $\pm$ 95.062 χ^2 /NDF: 14.9/18

Left In: 101.578 $\pm$ 214.611 χ^2 /NDF:0.1/1

Left: 167.037 $\pm$ 154.821 χ^2 /NDF: 4.1/4

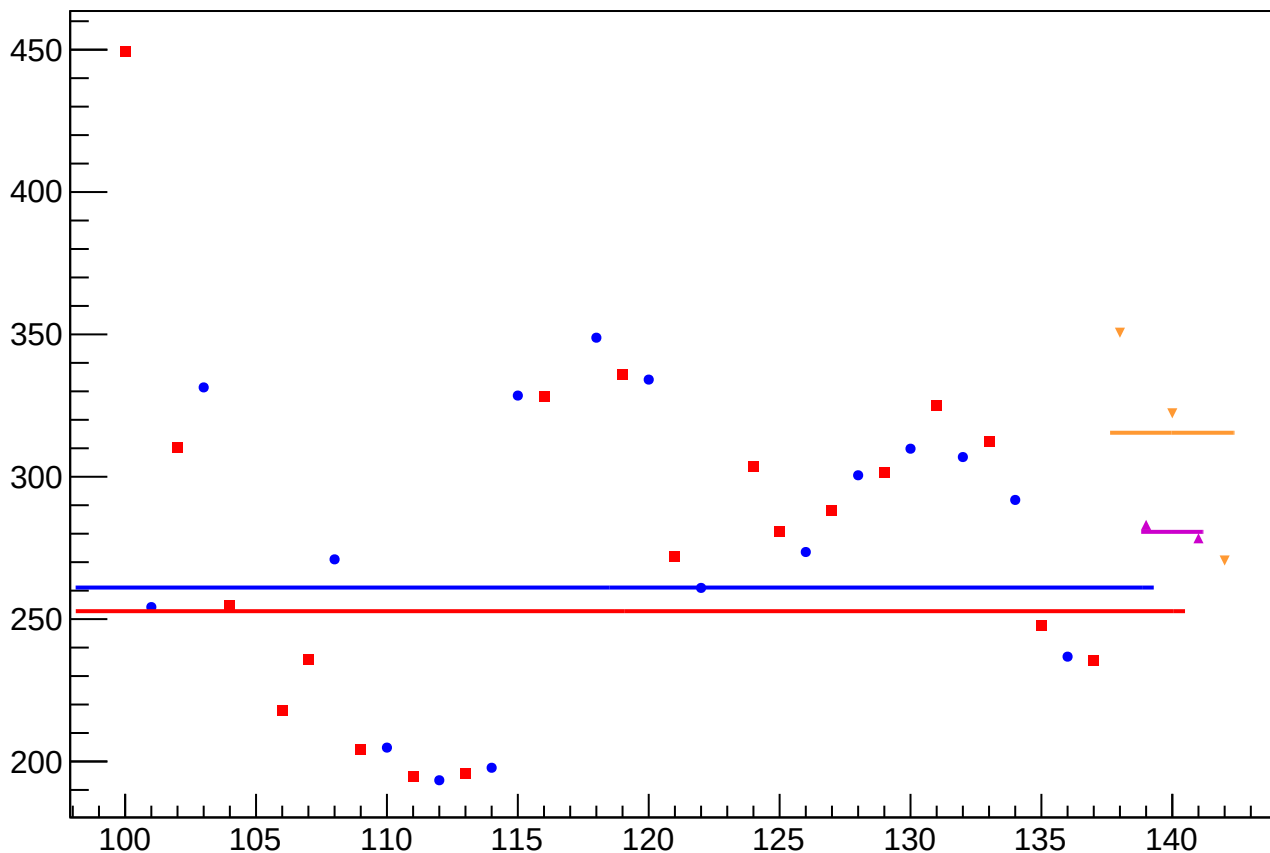
Right: 152.957 $\pm$ 68.645 χ^2 /NDF: 28.6/34

In: 67.104 $\pm$ 90.068 χ^2 /NDF:12.1/17

Out: 238.447 $\pm$ 87.482 χ^2 /NDF:18.8/21

All: 155.271 $\pm$ 62.753 χ^2 /NDF: 32.8/39

eigen_dit_asym_sam4_rms vs Slug, Sign Corrected



Right In: 261.089 $\pm$ 0.070 χ^2/NDF : 462665.3/15

Left Out: 315.460 $\pm$ 0.158 χ^2/NDF : 40181.2/2

Right Out: 252.787 $\pm$ 0.067 χ^2/NDF : 537293.8/18

Left In: 280.649 $\pm$ 0.152 χ^2/NDF : 240.0/1

Left: 297.343 $\pm$ 0.109 χ^2/NDF : 65657.2/4

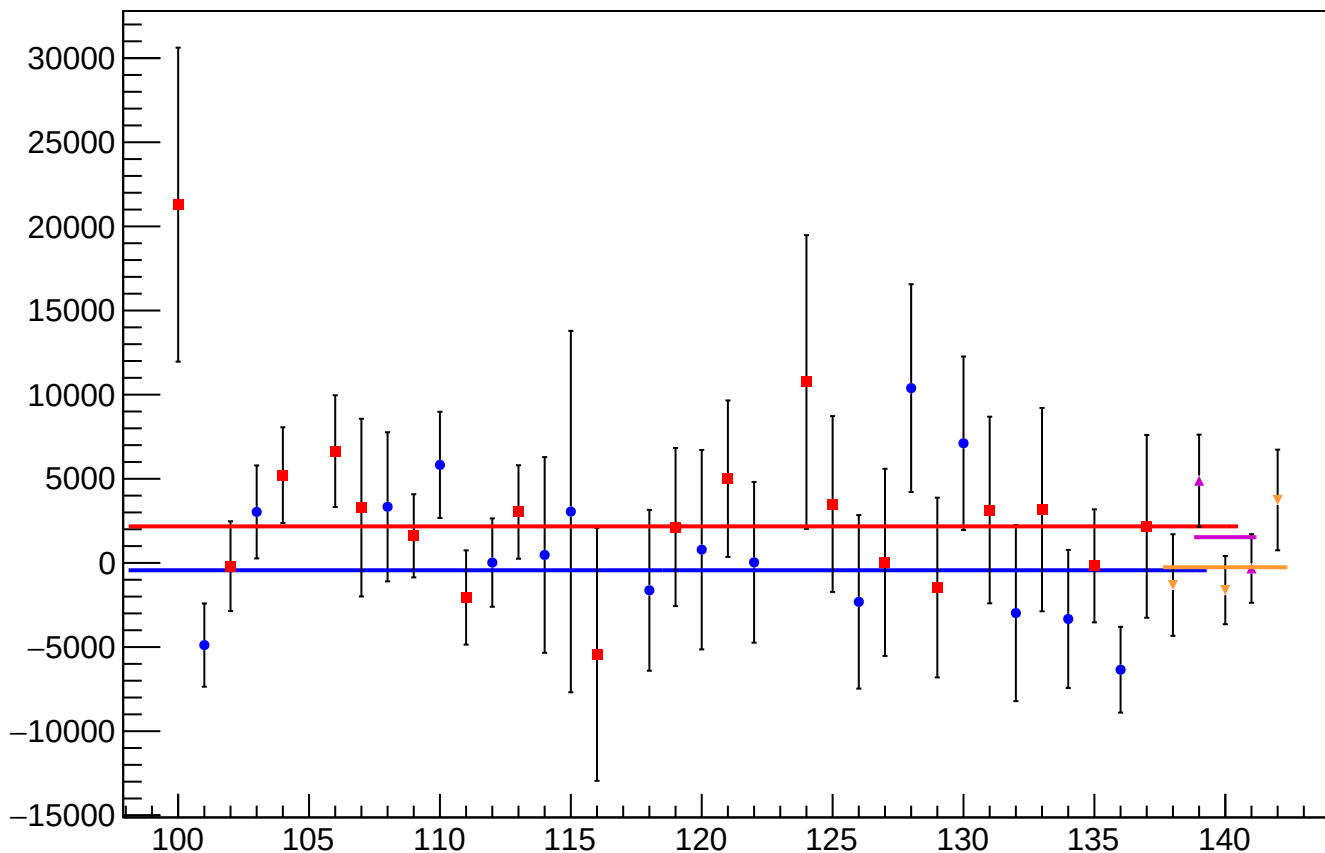
Right: 256.760 $\pm$ 0.049 χ^2/NDF : 1007258.7/34

In: 264.534 $\pm$ 0.064 χ^2/NDF : 476592.4/17

Out: 262.384 $\pm$ 0.062 χ^2/NDF : 710584.8/21

All: 263.428 $\pm$ 0.044 χ^2/NDF : 1187763.8/39

asym_sam4_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -436.731+/-955.133 χ^2/NDF : 21.2/15

Left Out: -255.918+/-1466.798 χ^2/NDF : 2.4/2

Right Out: 2172.089+/-901.101 χ^2/NDF : 14.0/18

Left In: 1530.234+/-1634.771 χ^2/NDF : 2.3/1

Left: 540.707+/-1091.754 χ^2/NDF : 5.4/4

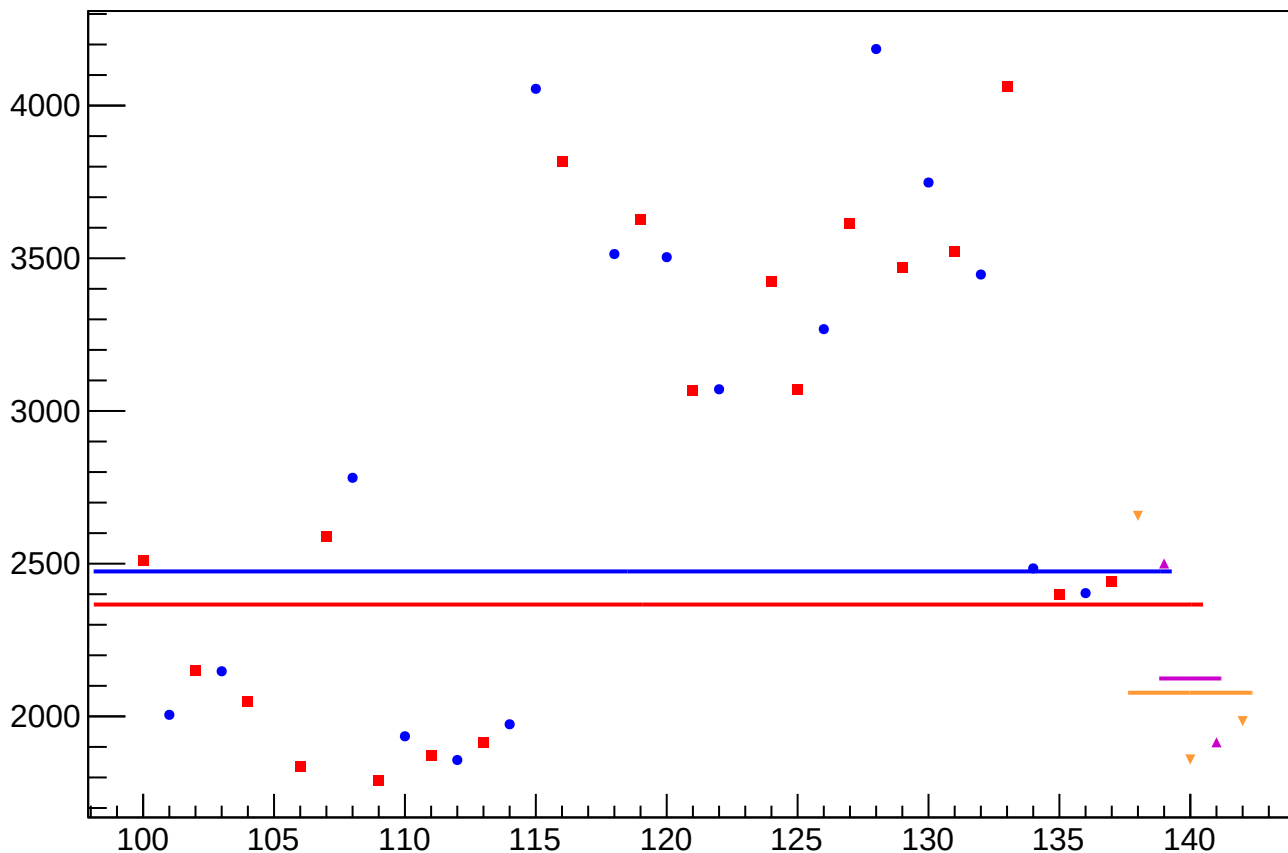
Right: 943.553+/-655.444 χ^2/NDF : 39.1/34

In: 63.839+/-824.691 χ^2/NDF : 24.6/17

Out: 1506.823+/-767.791 χ^2/NDF : 18.3/21

All: 836.824+/-561.950 χ^2/NDF : 44.6/39

asym_sam4_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2474.620+/-0.675 χ^2/NDF : 916254.1/15

Left Out: 2077.377+/-1.037 χ^2/NDF : 98752.6/2

Right Out: 2366.219+/-0.637 χ^2/NDF : 1077177.7/18

Left In: 2124.076+/-1.156 χ^2/NDF : 58877.0/1

Left: 2098.204+/-0.772 χ^2/NDF : 158533.8/4

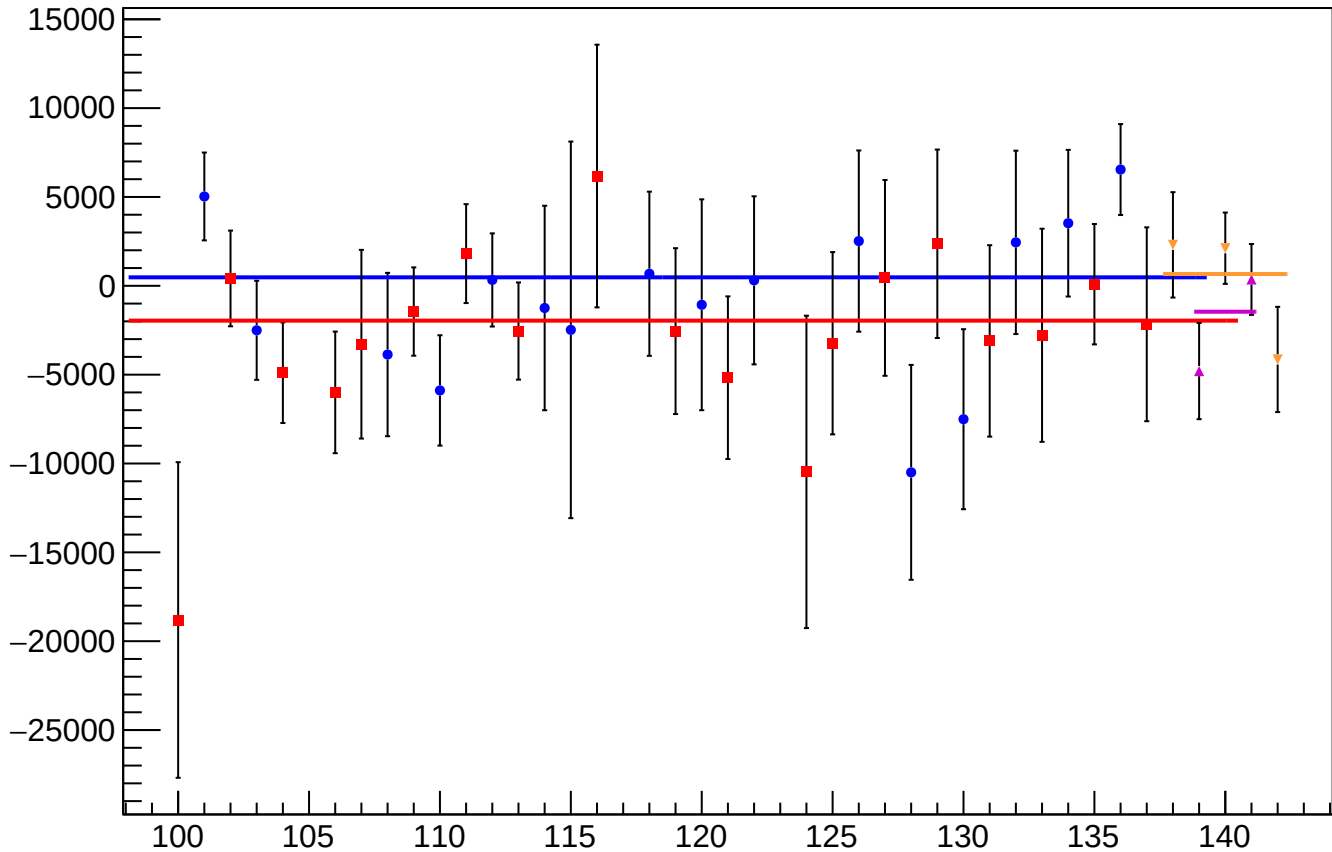
Right: 2417.267+/-0.463 χ^2/NDF : 2007061.7/34

In: 2385.411+/-0.583 χ^2/NDF : 1043689.0/17

Out: 2287.077+/-0.543 χ^2/NDF : 1232235.9/21

All: 2332.735+/-0.397 χ^2/NDF : 2291156.8/39

asym_sam4_mean vs Slug, Sign Corrected



Right In: 477.284+/-952.752 χ^2/NDF : 22.1/15

Left Out: 662.264+/-1449.109 χ^2/NDF : 3.5/2

Right Out: -1959.491+/-899.702 χ^2/NDF : 12.8/18

Left In: -1457.373+/-1604.971 χ^2/NDF : 2.4/1

Left: -289.662+/-1075.568 χ^2/NDF : 6.8/4

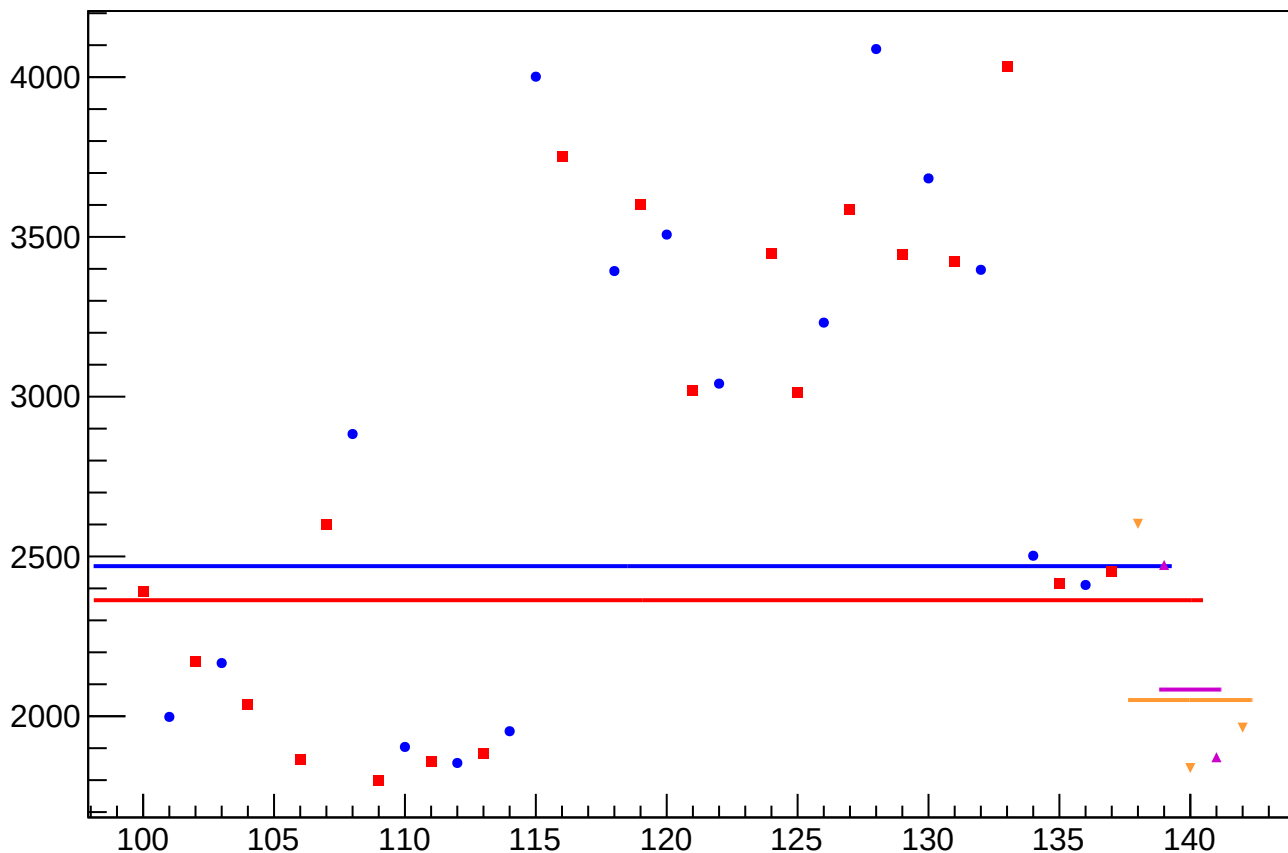
Right: -810.830+/-654.136 χ^2/NDF : 38.4/34

In: -26.828+/-819.273 χ^2/NDF : 25.5/17

Out: -1230.052+/-764.362 χ^2/NDF : 18.7/21

All: -670.110+/-558.891 χ^2/NDF : 45.4/39

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2469.639 $\pm$ 0.674 χ^2 /NDF: 886179.0/15

Left Out: 2050.658 $\pm$ 1.025 χ^2 /NDF: 93416.8/2

Right Out: 2363.052 $\pm$ 0.636 χ^2 /NDF: 1043344.3/18

Left In: 2083.423 $\pm$ 1.135 χ^2 /NDF: 64087.5/1

Left: 2065.373 $\pm$ 0.761 χ^2 /NDF: 157963.5/4

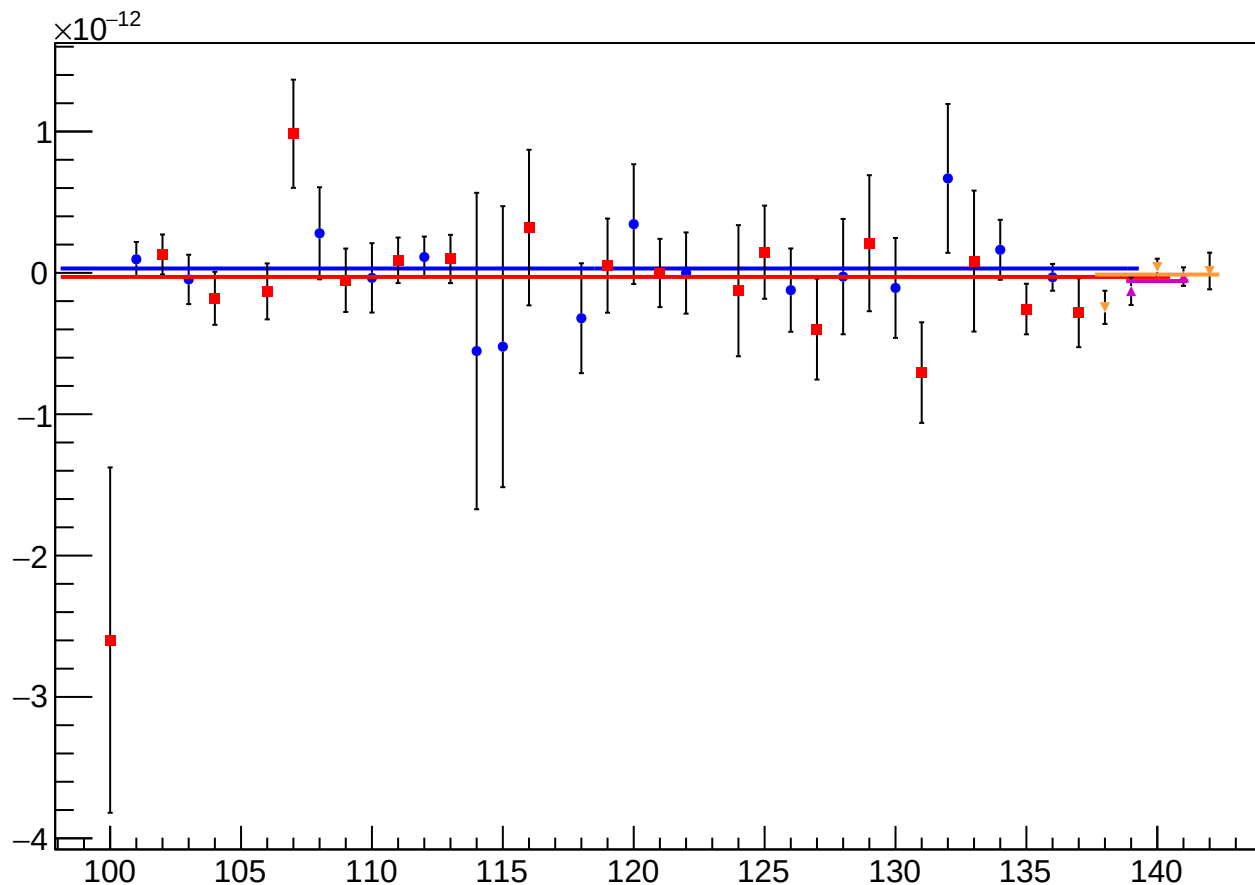
Right: 2413.296 $\pm$ 0.463 χ^2 /NDF: 1942755.0/34

In: 2369.003 $\pm$ 0.579 χ^2 /NDF: 1035902.0/17

Out: 2276.136 $\pm$ 0.540 χ^2 /NDF: 1203847.8/21

All: 2319.353 $\pm$ 0.395 χ^2 /NDF: 2253488.6/39

asym_sam4_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 6.1/15

Left Out: -0.000+/-0.000 χ^2/NDF : 4.8/2

Right Out: -0.000+/-0.000 χ^2/NDF : 23.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.8/1

Left: -0.000+/-0.000 χ^2/NDF : 5.9/4

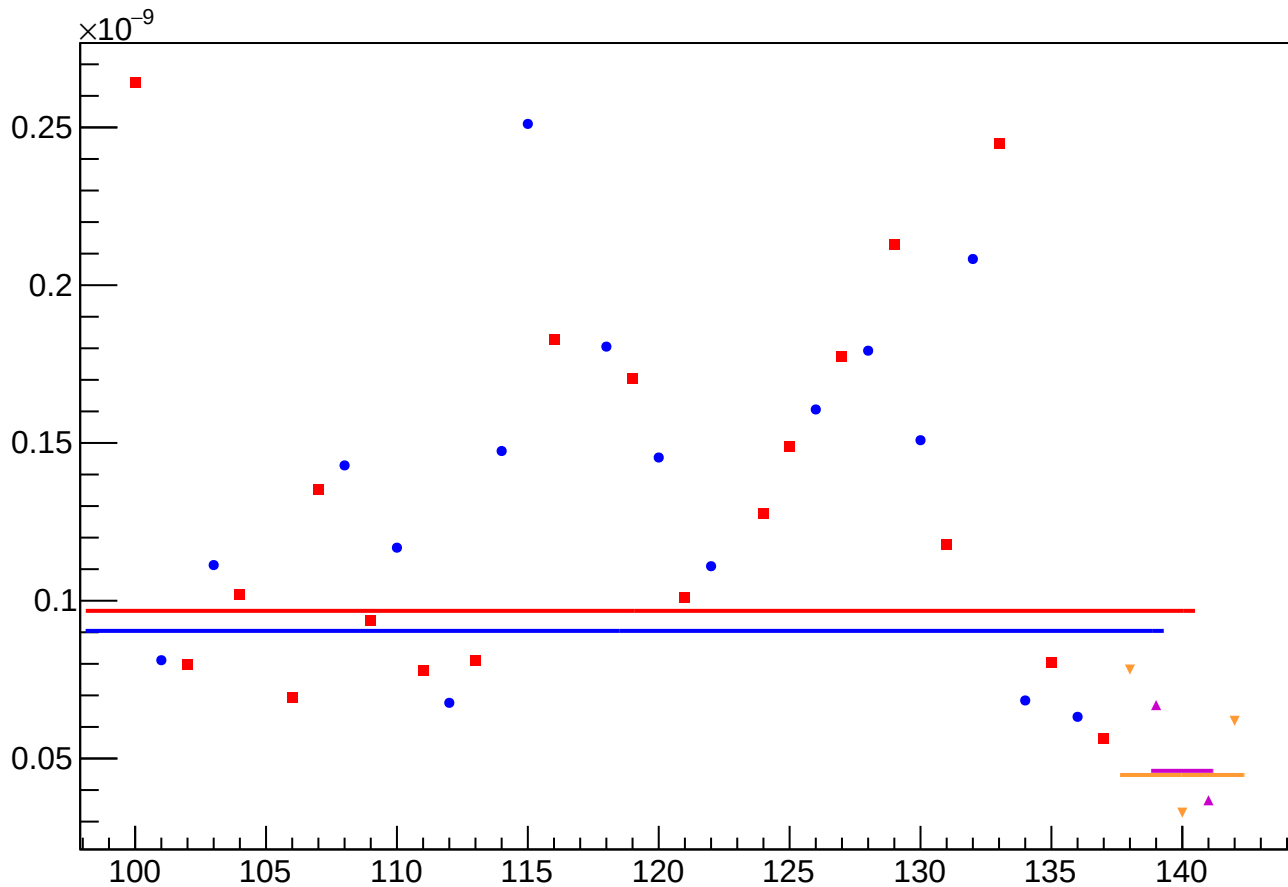
Right: 0.000+/-0.000 χ^2/NDF : 29.9/34

In: -0.000+/-0.000 χ^2/NDF : 8.3/17

Out: -0.000+/-0.000 χ^2/NDF : 28.0/21

All: -0.000+/-0.000 χ^2/NDF : 36.3/39

asym_sam4_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 926723.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 279354.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 851500.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 130617.0/1

Left: 0.000+/-0.000 χ^2/NDF : 410613.5/4

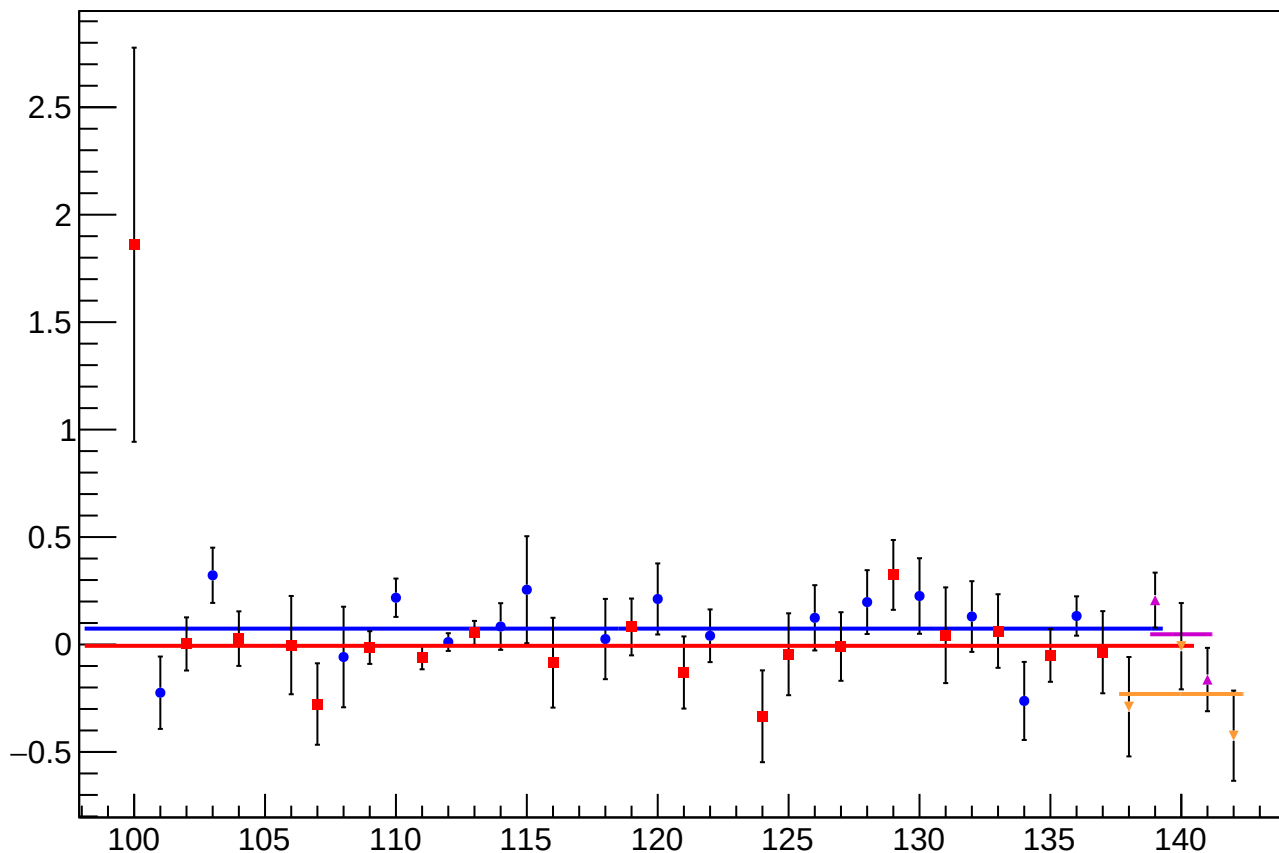
Right: 0.000+/-0.000 χ^2/NDF : 1791911.9/34

In: 0.000+/-0.000 χ^2/NDF : 1742652.0/17

Out: 0.000+/-0.000 χ^2/NDF : 2113113.5/21

All: 0.000+/-0.000 χ^2/NDF : 3858201.5/39

asym_sam4_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.074 ± 0.027 $\chi^2/\text{NDF}: 19.0/15$

Left Out: -0.230 ± 0.123 $\chi^2/\text{NDF}: 2.1/2$

Right Out: -0.006 ± 0.027 $\chi^2/\text{NDF}: 16.4/18$

Left In: 0.048 ± 0.097 $\chi^2/\text{NDF}: 3.6/1$

Left: -0.059 ± 0.076 $\chi^2/\text{NDF}: 8.9/4$

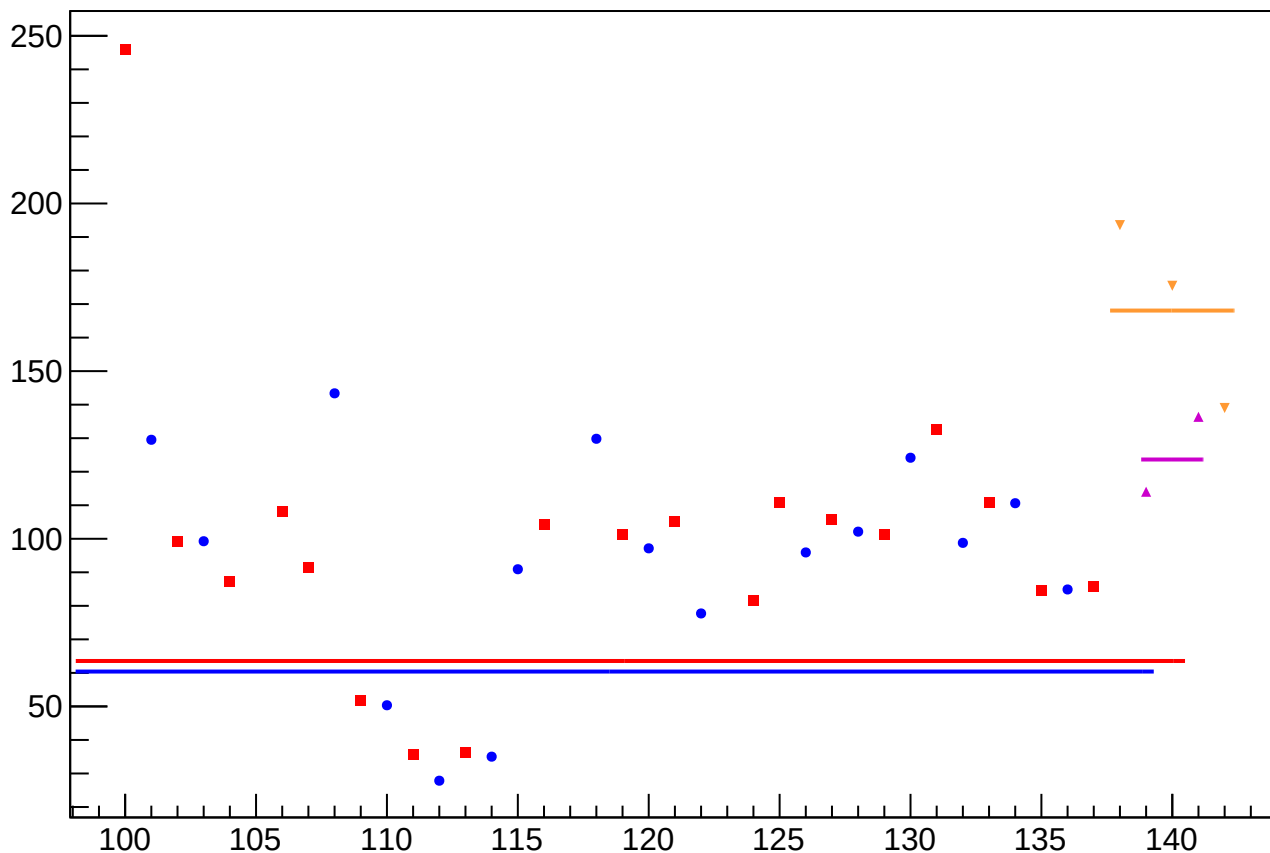
Right: 0.034 ± 0.019 $\chi^2/\text{NDF}: 39.8/34$

In: 0.072 ± 0.026 $\chi^2/\text{NDF}: 22.6/17$

Out: -0.016 ± 0.026 $\chi^2/\text{NDF}: 21.7/21$

All: 0.028 ± 0.018 $\chi^2/\text{NDF}: 50.1/39$

asym_sam4_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.401+/-0.019 χ^2/NDF : 3538126.0/15

Left Out: 168.066+/-0.087 χ^2/NDF : 65333.4/2

Right Out: 63.553+/-0.019 χ^2/NDF : 2654516.9/18

Left In: 123.642+/-0.068 χ^2/NDF : 26197.1/1

Left: 140.618+/-0.054 χ^2/NDF : 252997.7/4

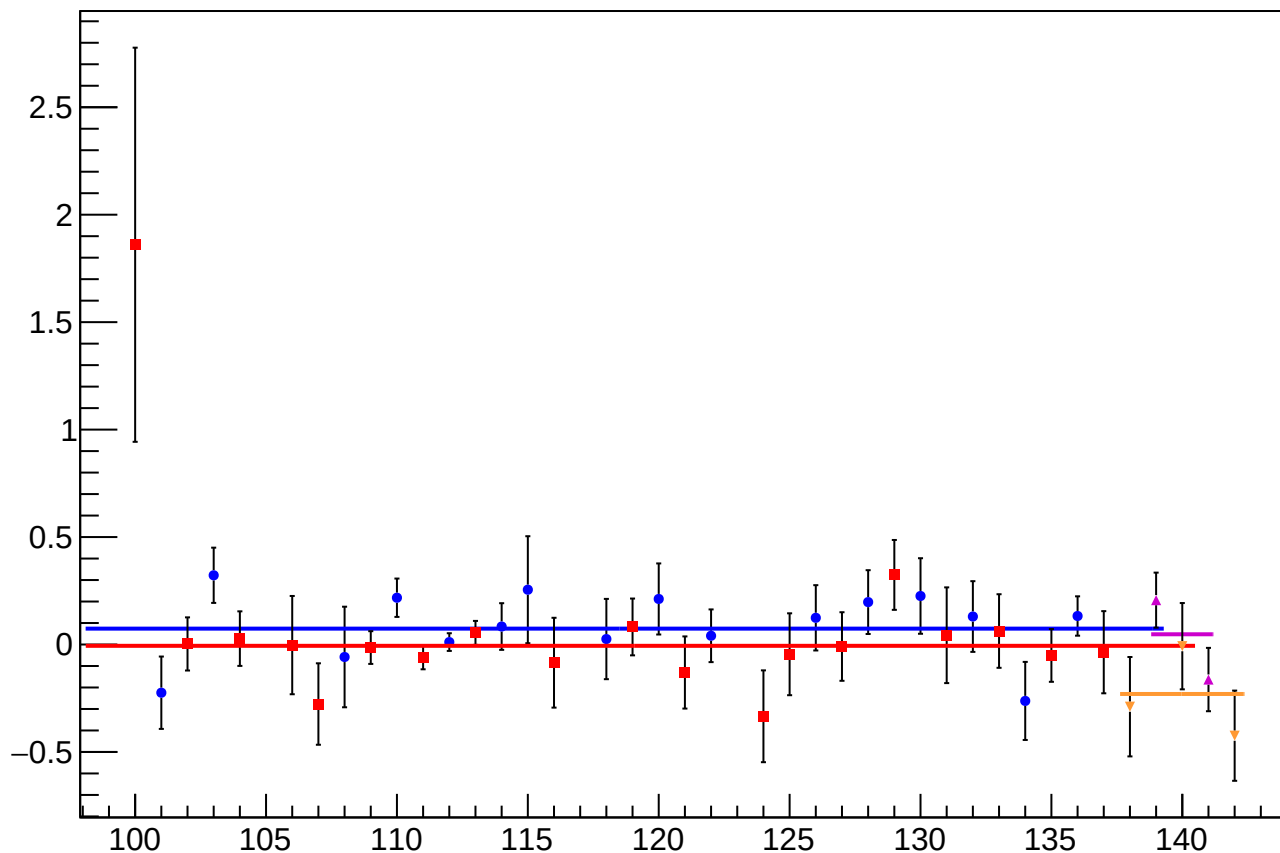
Right: 61.987+/-0.013 χ^2/NDF : 6206346.3/34

In: 64.983+/-0.018 χ^2/NDF : 4358544.5/17

Out: 68.308+/-0.019 χ^2/NDF : 4100499.2/21

All: 66.633+/-0.013 χ^2/NDF : 8475253.0/39

asym_sam4_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.074 ± 0.027 $\chi^2/\text{NDF}: 19.0/15$

Left Out: -0.230 ± 0.123 $\chi^2/\text{NDF}: 2.1/2$

Right Out: -0.006 ± 0.027 $\chi^2/\text{NDF}: 16.4/18$

Left In: 0.048 ± 0.097 $\chi^2/\text{NDF}: 3.6/1$

Left: -0.059 ± 0.076 $\chi^2/\text{NDF}: 8.9/4$

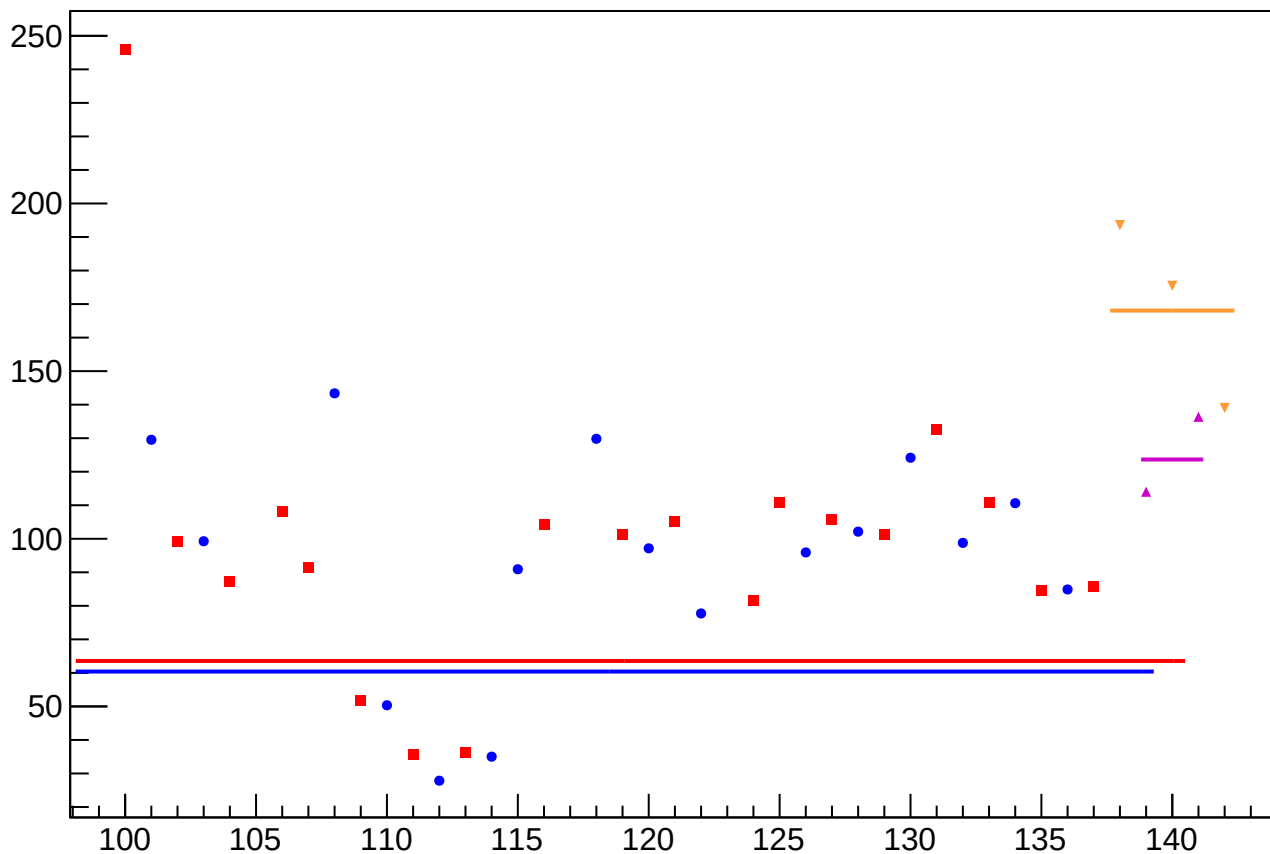
Right: 0.034 ± 0.019 $\chi^2/\text{NDF}: 39.8/34$

In: 0.072 ± 0.026 $\chi^2/\text{NDF}: 22.6/17$

Out: -0.016 ± 0.026 $\chi^2/\text{NDF}: 21.7/21$

All: 0.028 ± 0.018 $\chi^2/\text{NDF}: 50.1/39$

asym_sam4_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.401+/-0.019 χ^2/NDF : 3538126.0/15

Left Out: 168.066+/-0.087 χ^2/NDF : 65333.4/2

Right Out: 63.553+/-0.019 χ^2/NDF : 2654516.9/18

Left In: 123.642+/-0.068 χ^2/NDF : 26197.1/1

Left: 140.618+/-0.054 χ^2/NDF : 252997.7/4

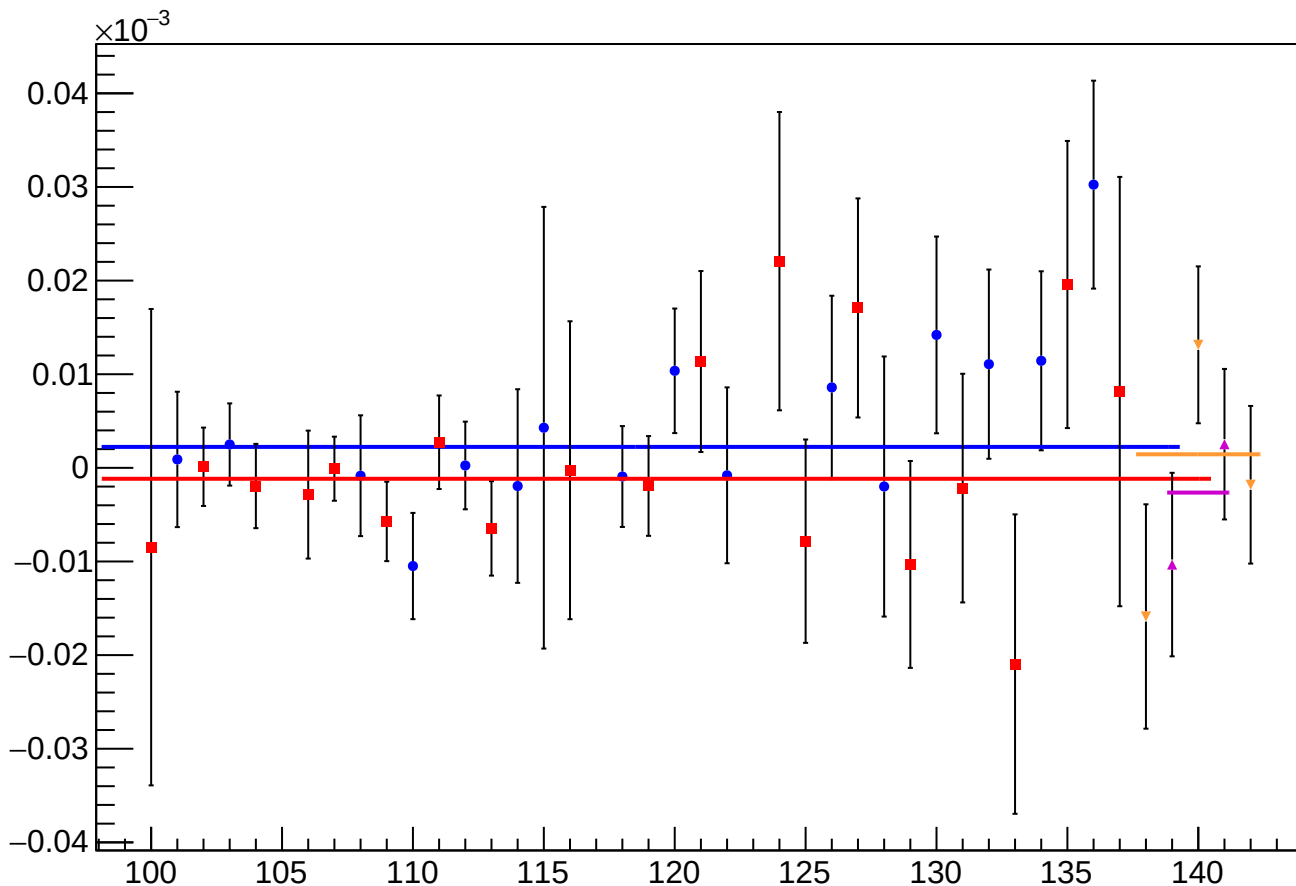
Right: 61.987+/-0.013 χ^2/NDF : 6206346.3/34

In: 64.983+/-0.018 χ^2/NDF : 4358544.5/17

Out: 68.308+/-0.019 χ^2/NDF : 4100499.2/21

All: 66.633+/-0.013 χ^2/NDF : 8475253.0/39

asym_sam4_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 4.2/2

Right Out: -0.000+/-0.000 χ^2/NDF : 14.1/18

Left In: -0.000+/-0.000 χ^2/NDF : 1.0/1

Left: -0.000+/-0.000 χ^2/NDF : 5.5/4

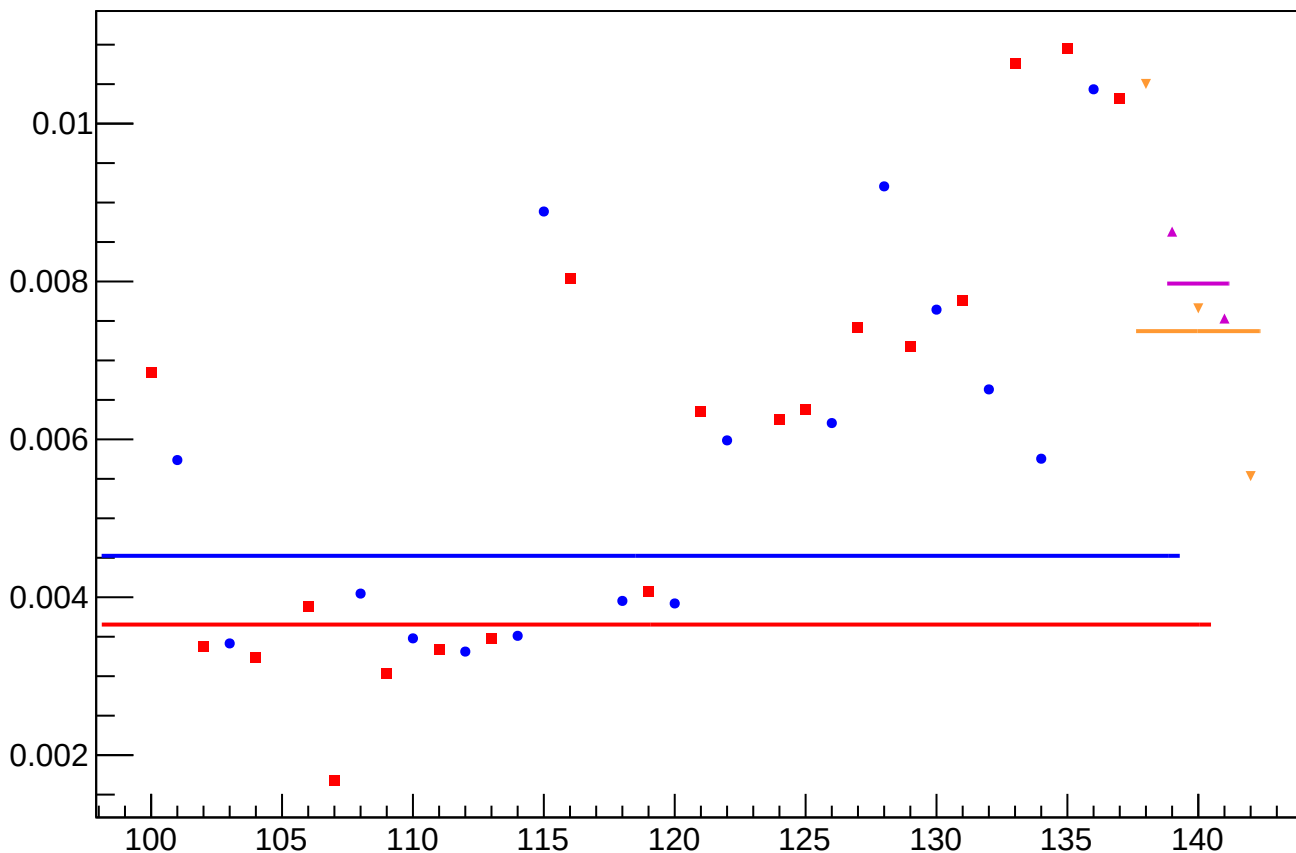
Right: 0.000+/-0.000 χ^2/NDF : 33.6/34

In: 0.000+/-0.000 χ^2/NDF : 19.0/17

Out: -0.000+/-0.000 χ^2/NDF : 18.5/21

All: 0.000+/-0.000 χ^2/NDF : 39.1/39

asym_sam4_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000

χ^2/NDF : 1721333.3/15

Left Out: 0.007+/-0.000

χ^2/NDF :234116.6/2

Right Out: 0.004+/-0.000

χ^2/NDF : 2933246.9/18

Left In: 0.008+/-0.000

χ^2/NDF :15089.3/1

Left: 0.008+/-0.000

χ^2/NDF : 260059.0/4

Right: 0.004+/-0.000

χ^2/NDF : 4928784.4/34

In: 0.005+/-0.000

χ^2/NDF :2304247.3/17

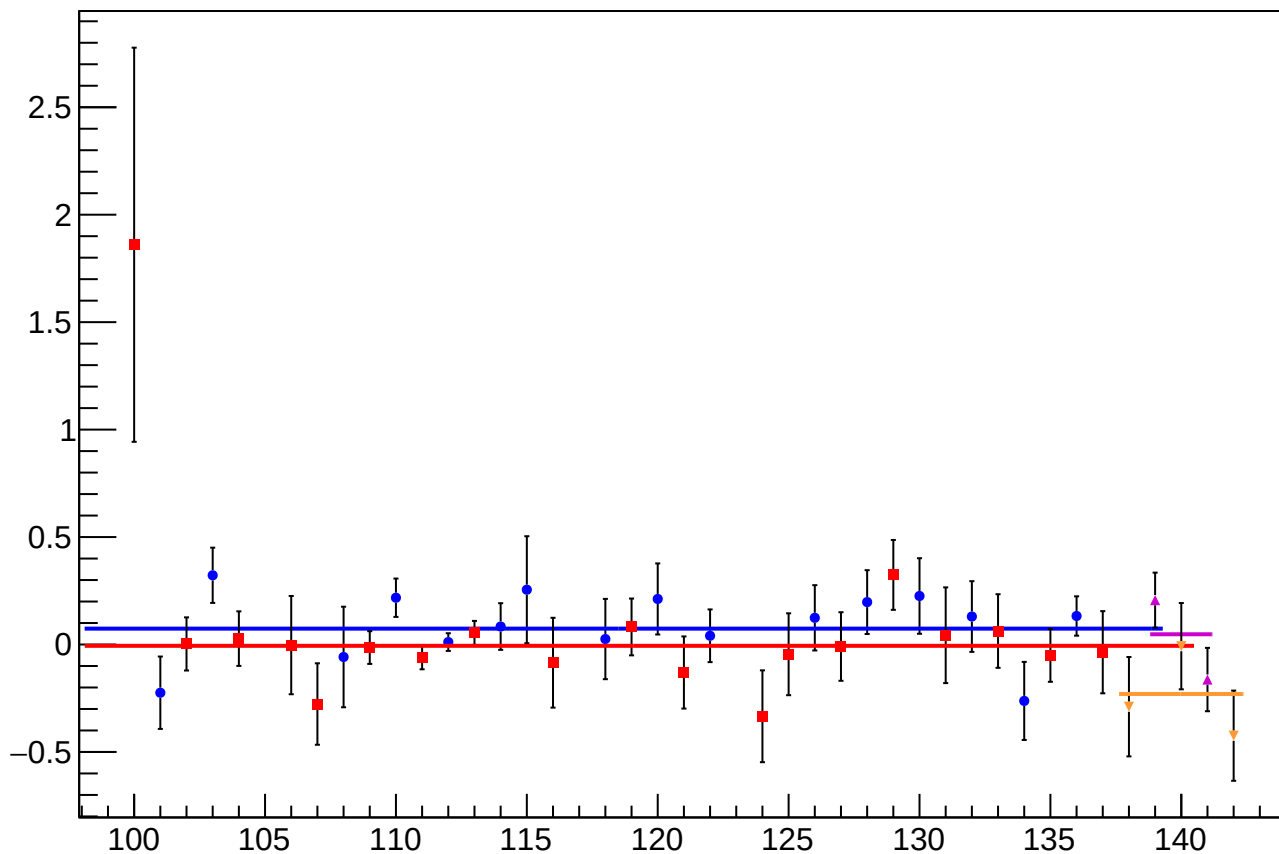
Out: 0.004+/-0.000

χ^2/NDF :4071389.2/21

All: 0.004+/-0.000

χ^2/NDF : 6670067.0/39

asym_sam4_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.074 ± 0.027 $\chi^2/\text{NDF}: 19.0/15$

Left Out: -0.230 ± 0.123 $\chi^2/\text{NDF}: 2.1/2$

Right Out: -0.006 ± 0.027 $\chi^2/\text{NDF}: 16.4/18$

Left In: 0.048 ± 0.097 $\chi^2/\text{NDF}: 3.6/1$

Left: -0.059 ± 0.076 $\chi^2/\text{NDF}: 8.9/4$

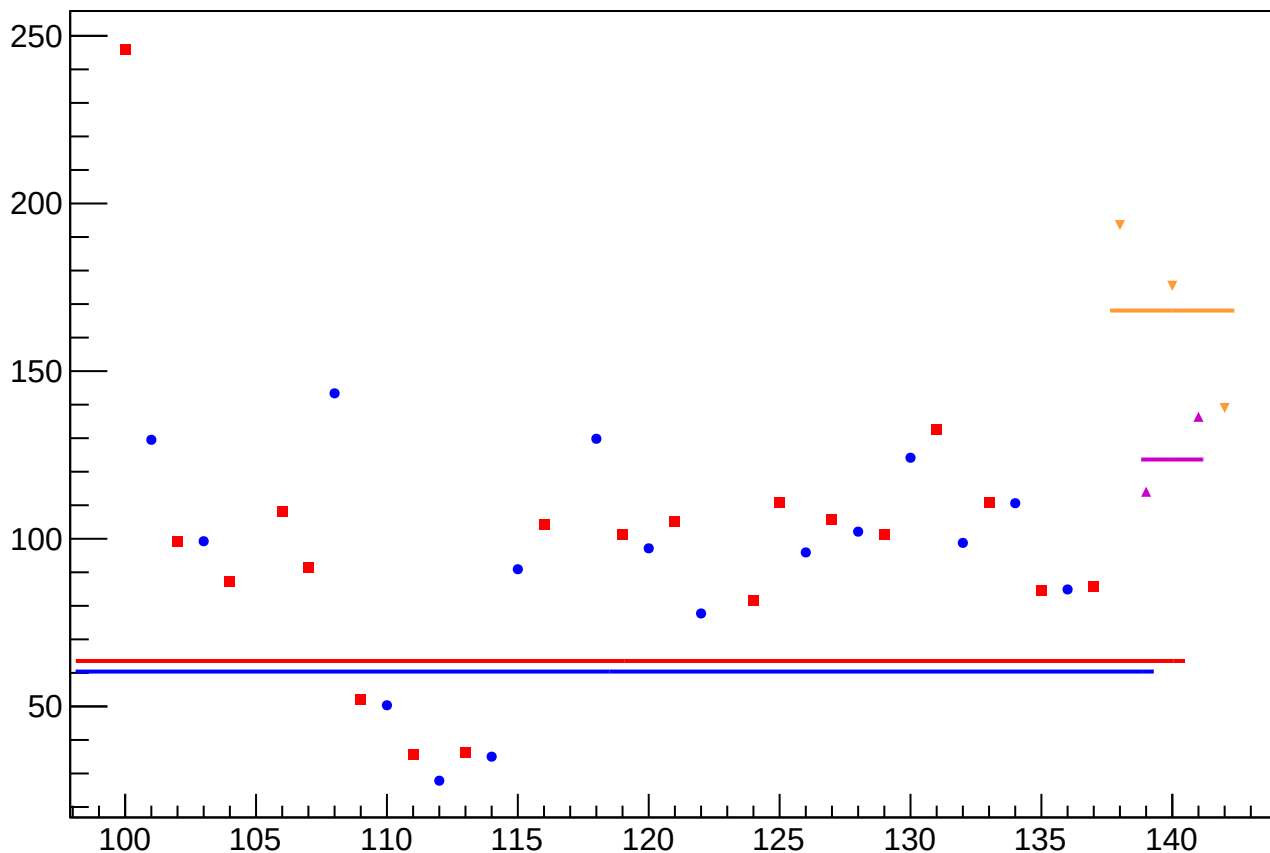
Right: 0.034 ± 0.019 $\chi^2/\text{NDF}: 39.8/34$

In: 0.072 ± 0.026 $\chi^2/\text{NDF}: 22.6/17$

Out: -0.016 ± 0.026 $\chi^2/\text{NDF}: 21.7/21$

All: 0.028 ± 0.018 $\chi^2/\text{NDF}: 50.1/39$

asym_sam4_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.399+/-0.019 χ^2/NDF : 3538382.9/15

Left Out: 168.066+/-0.087 χ^2/NDF : 65325.8/2

Right Out: 63.551+/-0.019 χ^2/NDF : 2654786.8/18

Left In: 123.641+/-0.068 χ^2/NDF : 26203.6/1

Left: 140.618+/-0.054 χ^2/NDF : 253005.7/4

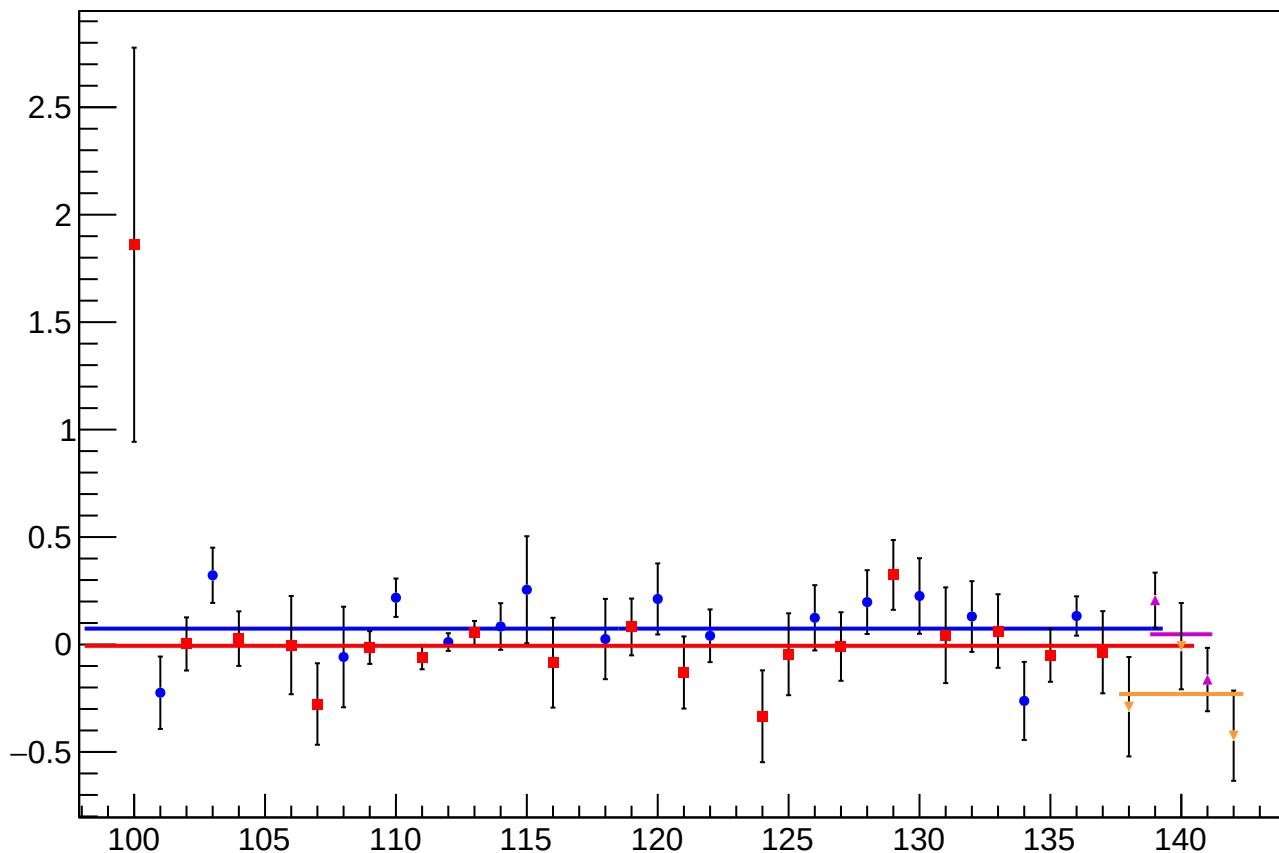
Right: 61.985+/-0.013 χ^2/NDF : 6206876.3/34

In: 64.981+/-0.018 χ^2/NDF : 4358855.6/17

Out: 68.306+/-0.019 χ^2/NDF : 4100821.2/21

All: 66.631+/-0.013 χ^2/NDF : 8475889.2/39

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.074 ± 0.027 $\chi^2/\text{NDF}: 19.0/15$

Left Out: -0.230 ± 0.123 $\chi^2/\text{NDF}: 2.1/2$

Right Out: -0.006 ± 0.027 $\chi^2/\text{NDF}: 16.4/18$

Left In: 0.048 ± 0.097 $\chi^2/\text{NDF}: 3.6/1$

Left: -0.059 ± 0.076 $\chi^2/\text{NDF}: 8.9/4$

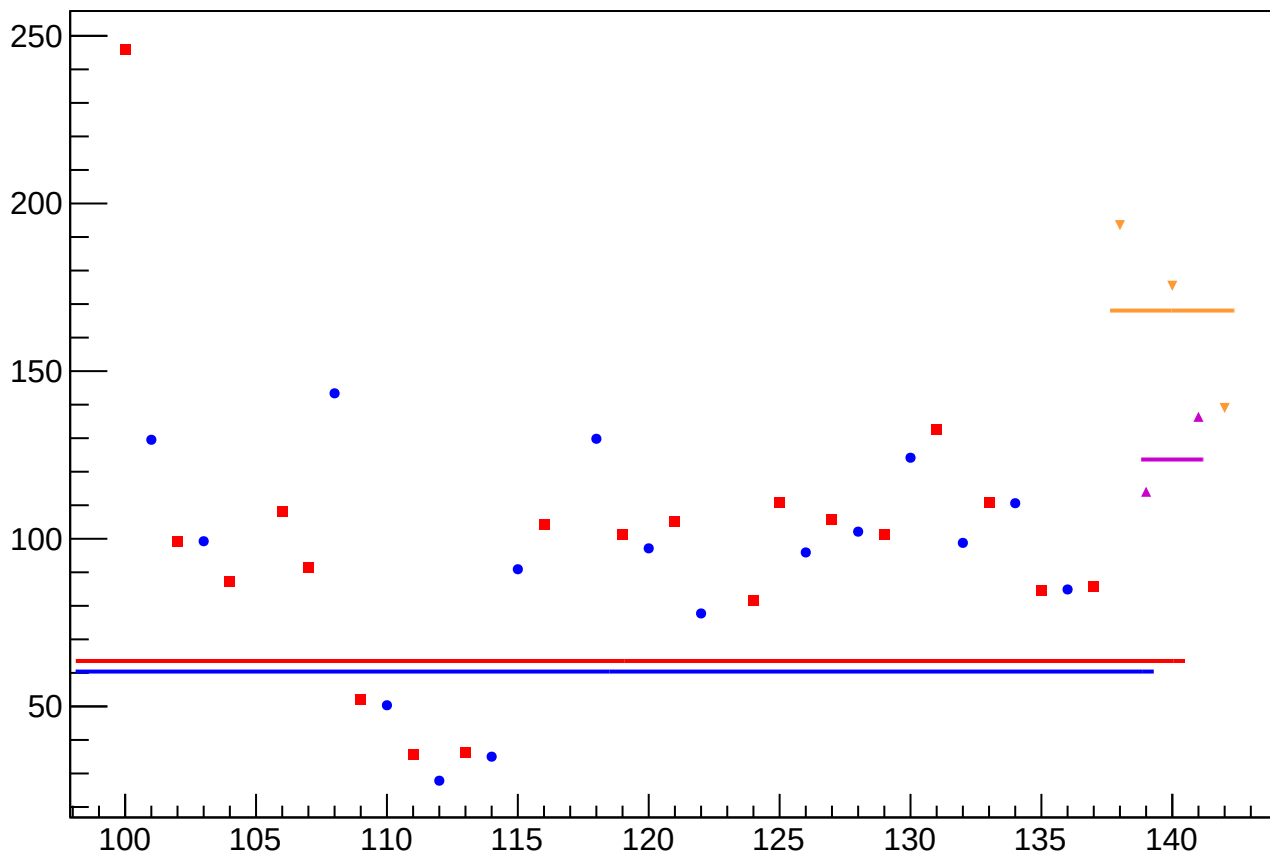
Right: 0.034 ± 0.019 $\chi^2/\text{NDF}: 39.8/34$

In: 0.072 ± 0.026 $\chi^2/\text{NDF}: 22.6/17$

Out: -0.016 ± 0.026 $\chi^2/\text{NDF}: 21.7/21$

All: 0.028 ± 0.018 $\chi^2/\text{NDF}: 50.1/39$

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.399 $\pm$ 0.019 χ^2/NDF : 3538382.9/15

Left Out: 168.066 $\pm$ 0.087 χ^2/NDF : 65325.8/2

Right Out: 63.551 $\pm$ 0.019 χ^2/NDF : 2654786.8/18

Left In: 123.641 $\pm$ 0.068 χ^2/NDF : 26203.6/1

Left: 140.618 $\pm$ 0.054 χ^2/NDF : 253005.7/4

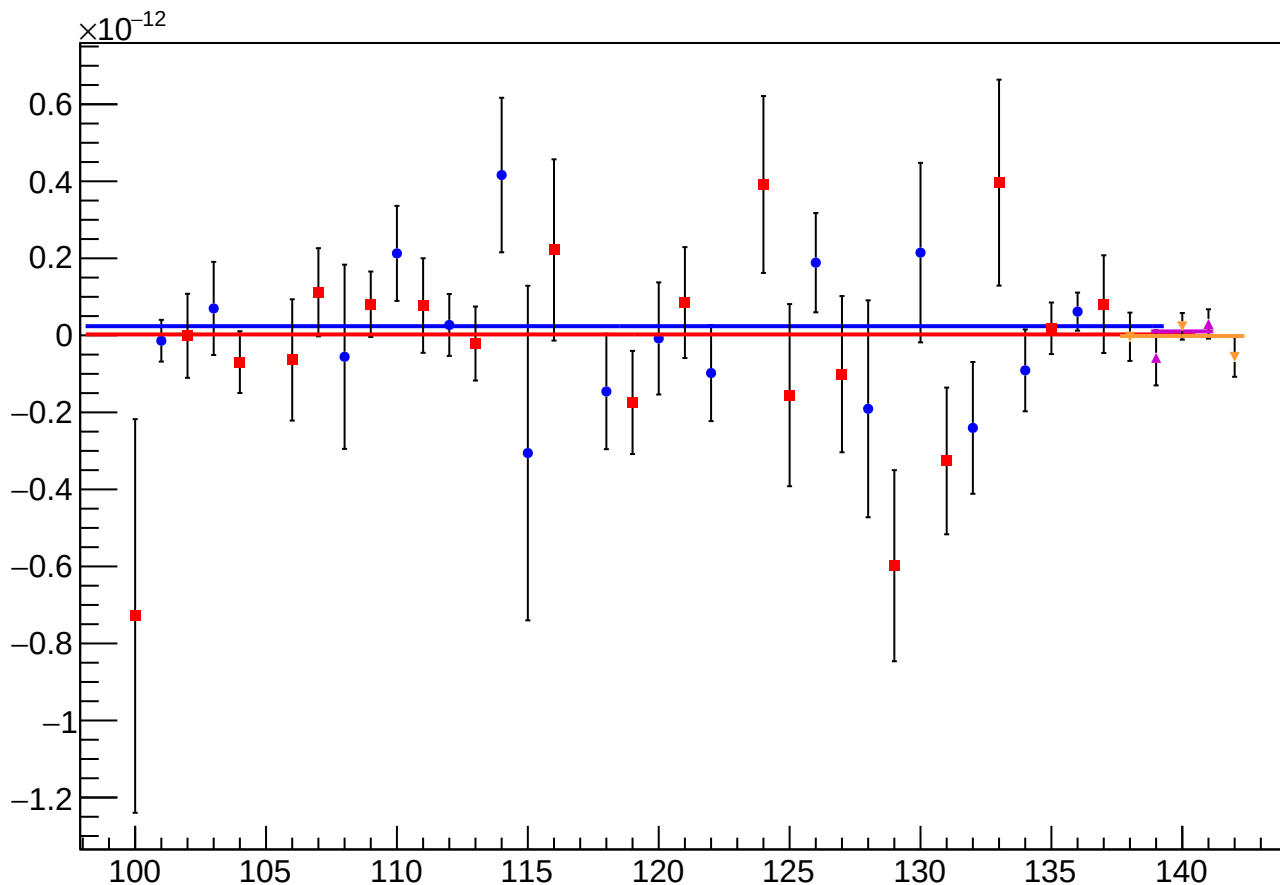
Right: 61.985 $\pm$ 0.013 χ^2/NDF : 6206876.3/34

In: 64.981 $\pm$ 0.018 χ^2/NDF : 4358855.6/17

Out: 68.306 $\pm$ 0.019 χ^2/NDF : 4100821.2/21

All: 66.631 $\pm$ 0.013 χ^2/NDF : 8475889.2/39

asym_sam4_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 23.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 1.2/1

Left: 0.000+/-0.000 χ^2/NDF : 2.9/4

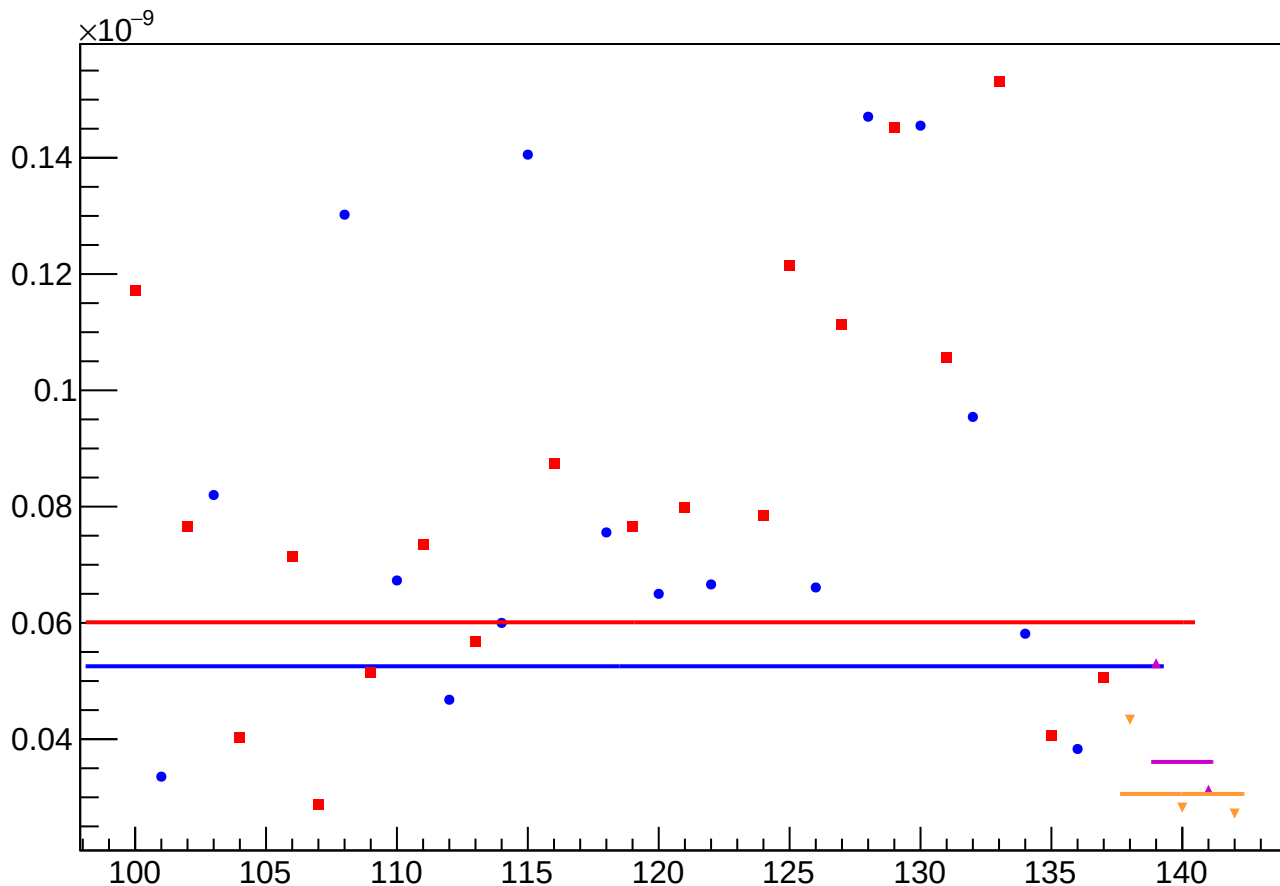
Right: 0.000+/-0.000 χ^2/NDF : 40.3/34

In: 0.000+/-0.000 χ^2/NDF : 18.1/17

Out: 0.000+/-0.000 χ^2/NDF : 24.8/21

All: 0.000+/-0.000 χ^2/NDF : 43.3/39

asym_sam4_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1649207.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :100828.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1539049.5/18

Left In: 0.000+/-0.000 χ^2/NDF :144136.7/1

Left: 0.000+/-0.000 χ^2/NDF : 278469.5/4

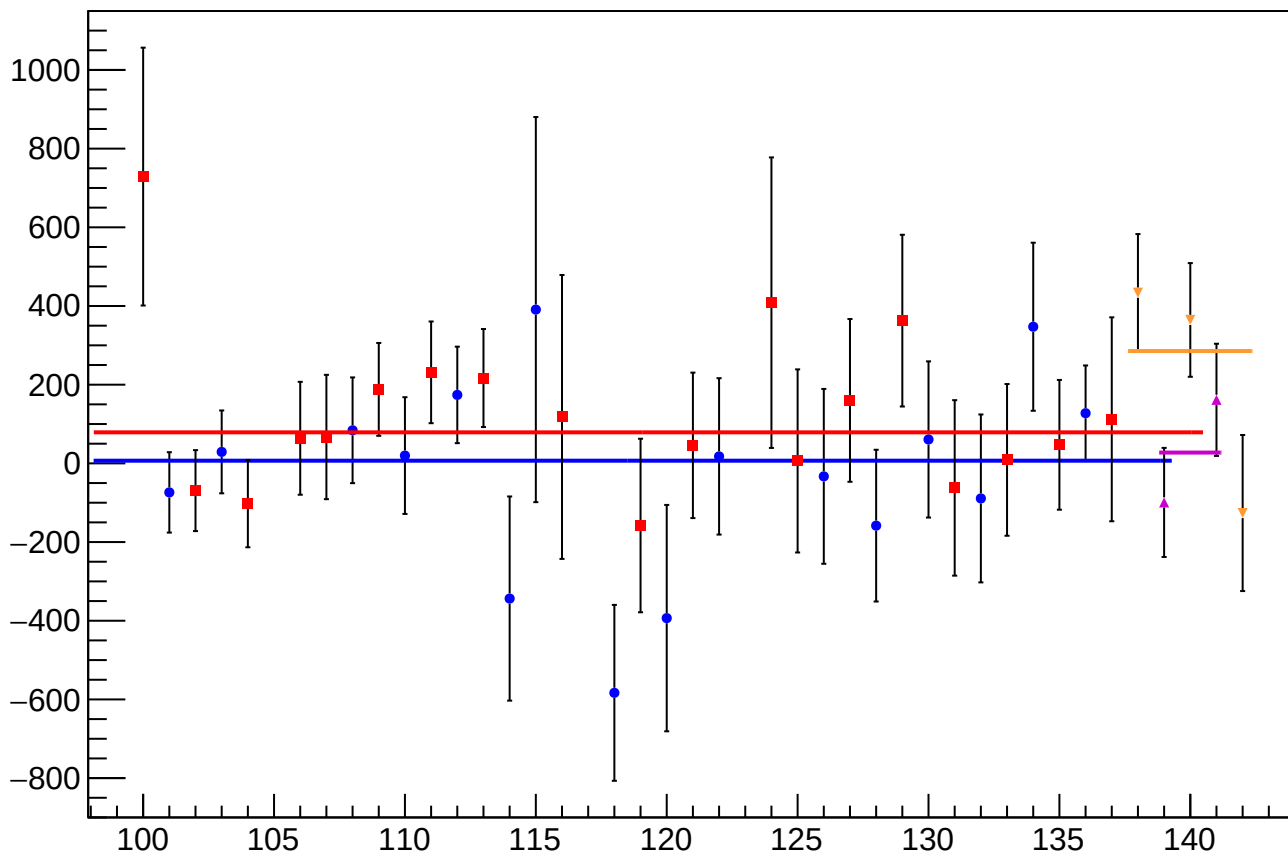
Right: 0.000+/-0.000 χ^2/NDF : 3263531.1/34

In: 0.000+/-0.000 χ^2/NDF :2091468.6/17

Out: 0.000+/-0.000 χ^2/NDF :2791057.2/21

All: 0.000+/-0.000 χ^2/NDF : 4897736.5/39

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 6.811 ± 40.353 $\chi^2/\text{NDF}: 18.8/15$

Left Out: 285.511 ± 91.916 $\chi^2/\text{NDF}: 5.6/2$

Right Out: 78.883 ± 37.906 $\chi^2/\text{NDF}: 16.7/18$

Left In: 27.474 ± 99.392 $\chi^2/\text{NDF}: 1.7/1$

Left: 166.561 ± 67.483 $\chi^2/\text{NDF}: 11.0/4$

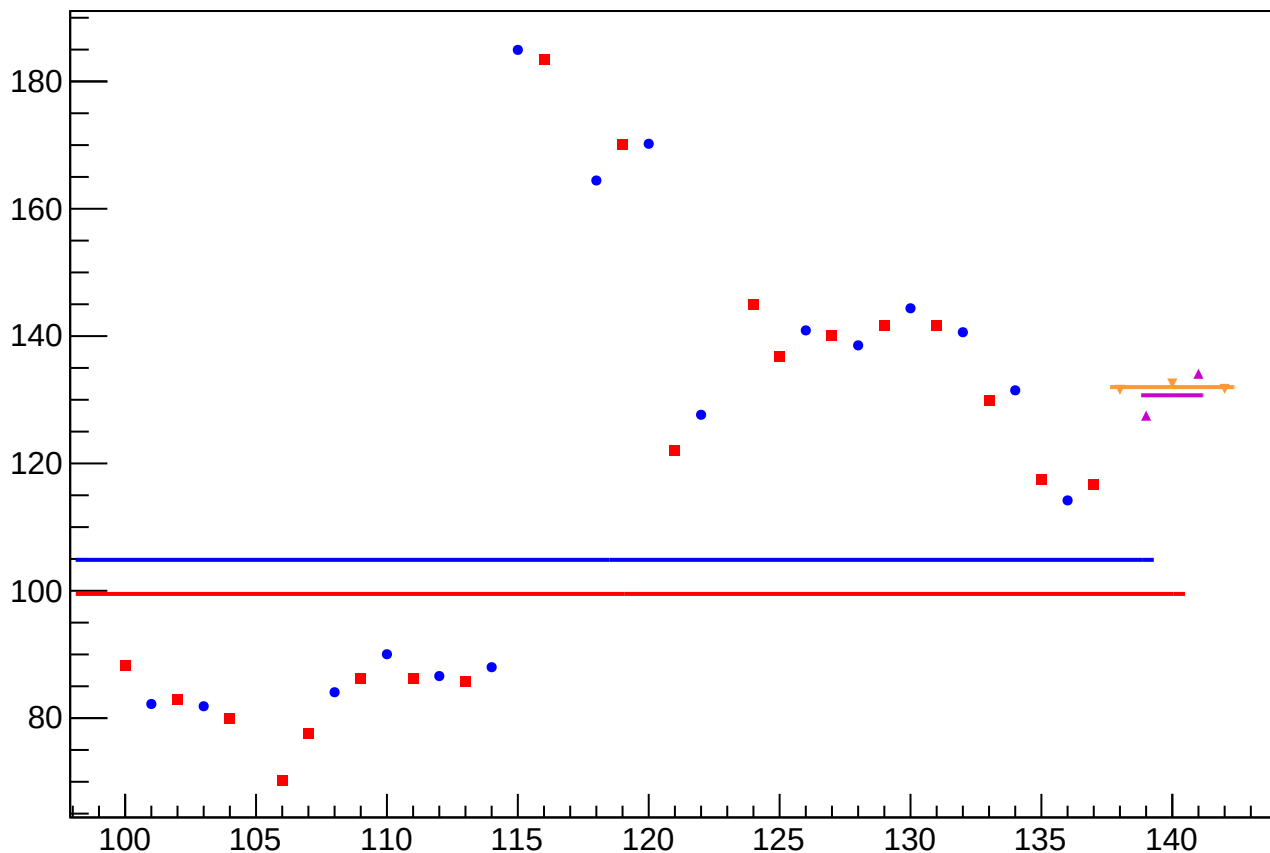
Right: 45.098 ± 27.628 $\chi^2/\text{NDF}: 37.2/34$

In: 9.735 ± 37.389 $\chi^2/\text{NDF}: 20.5/17$

Out: 108.916 ± 35.043 $\chi^2/\text{NDF}: 26.6/21$

All: 62.535 ± 25.568 $\chi^2/\text{NDF}: 50.9/39$

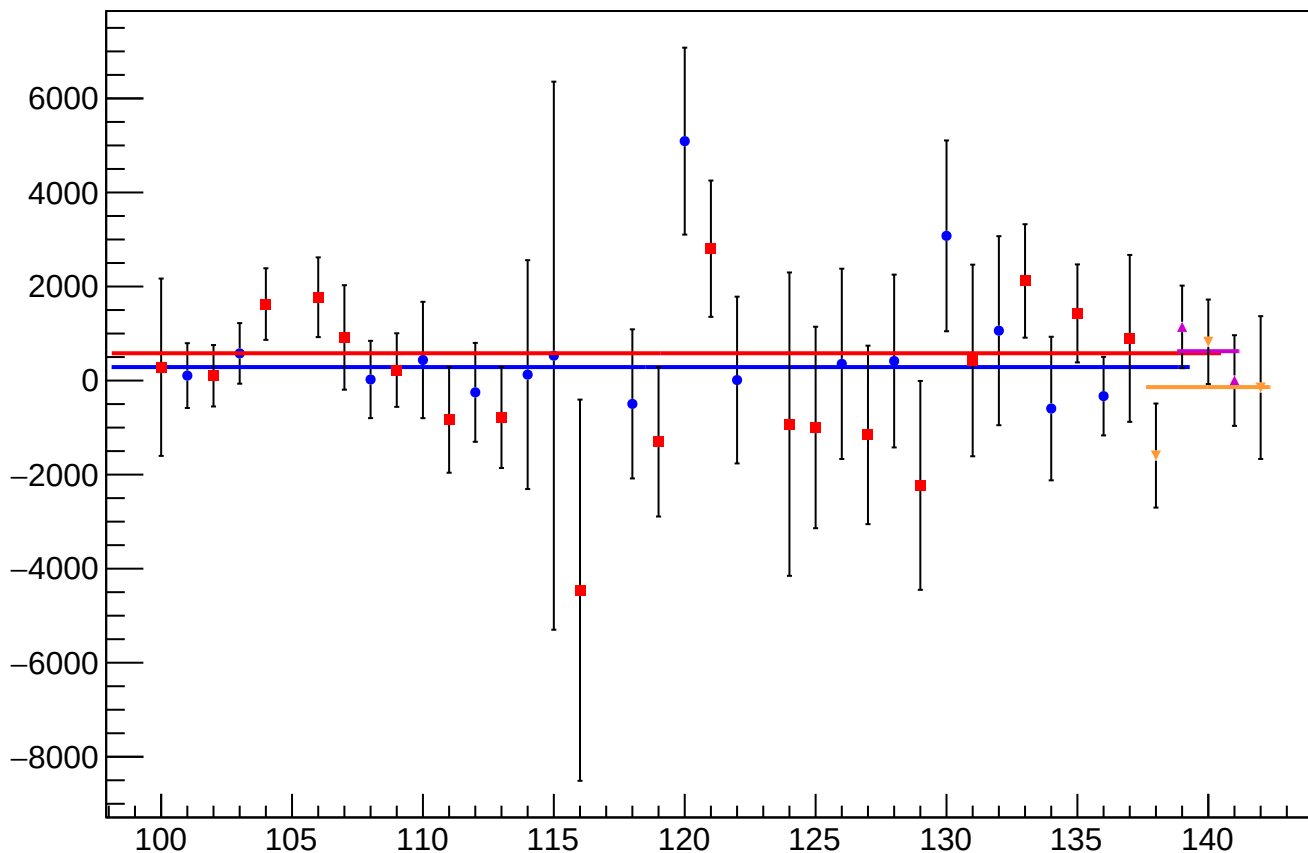
reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 104.860 $\pm$ 0.029 χ^2 /NDF: 931228.4/15
 Left Out: 131.992 $\pm$ 0.065 χ^2 /NDF: 51.0/2
 Right Out: 99.508 $\pm$ 0.027 χ^2 /NDF: 1039037.0/18
 Left In: 130.704 $\pm$ 0.070 χ^2 /NDF: 2193.9/1

Left: 131.398 $\pm$ 0.048 χ^2 /NDF: 2425.8/4
 Right: 102.017 $\pm$ 0.020 χ^2 /NDF: 1988955.2/34
 In: 108.517 $\pm$ 0.026 χ^2 /NDF: 1049512.8/17
 Out: 104.229 $\pm$ 0.025 χ^2 /NDF: 1252579.9/21
 All: 106.234 $\pm$ 0.018 χ^2 /NDF: 2316094.4/39

asym_sam5_reg_correction_mean vs Slug, Sign Corrected



Right In: 286.915 $\pm$ 293.474 χ^2 /NDF: 9.7/15

Left Out: -138.445 $\pm$ 633.789 χ^2 /NDF:2.9/2

Right Out: 581.217 $\pm$ 269.775 χ^2 /NDF: 18.8/18

Left In: 624.614 $\pm$ 648.930 χ^2 /NDF:0.8/1

Left: 234.079 $\pm$ 453.415 χ^2 /NDF: 4.4/4

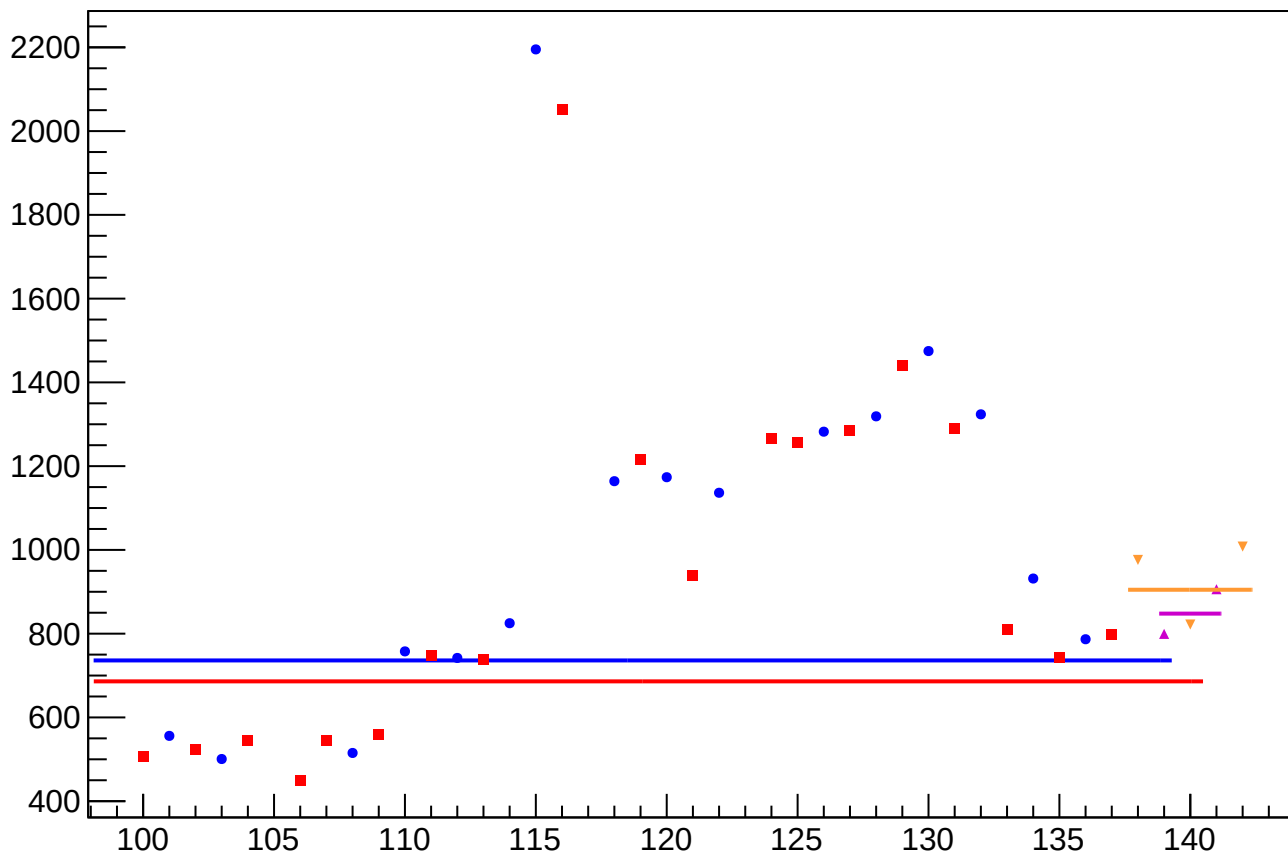
Right: 446.427 $\pm$ 198.610 χ^2 /NDF: 29.0/34

In: 344.255 $\pm$ 267.400 χ^2 /NDF:10.7/17

Out: 470.828 $\pm$ 248.224 χ^2 /NDF:22.7/21

All: 412.242 $\pm$ 181.923 χ^2 /NDF: 33.5/39

asym_sam5_reg_correction_rms vs Slug, Sign Corrected



Right In: 736.084+/-0.208 χ^2/NDF : 1844496.2/15

Left Out: 904.846+/-0.448 χ^2/NDF : 34575.7/2

Right Out: 686.108+/-0.191 χ^2/NDF : 1819176.0/18

Left In: 847.872+/-0.459 χ^2/NDF : 13382.1/1

Left: 877.031+/-0.321 χ^2/NDF : 55848.2/4

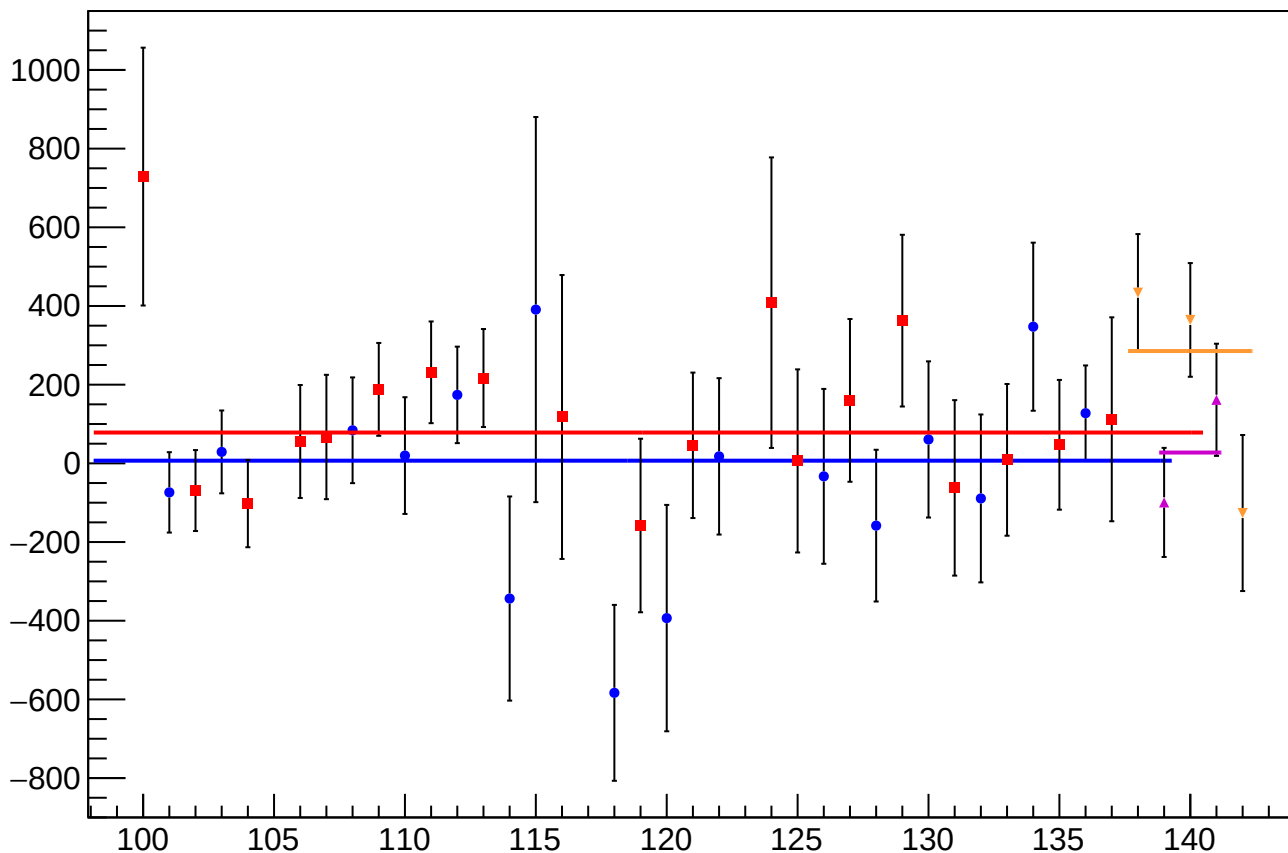
Right: 708.997+/-0.140 χ^2/NDF : 3695106.9/34

In: 755.065+/-0.189 χ^2/NDF : 1907151.0/17

Out: 719.660+/-0.176 χ^2/NDF : 2055436.2/21

All: 736.048+/-0.129 χ^2/NDF : 3981419.9/39

cor_asym_sam5_mean vs Slug, Sign Corrected



Right In: 6.799 $\pm$ 40.353 χ^2 /NDF: 18.8/15

Left Out: 285.507 $\pm$ 91.916 χ^2 /NDF: 5.6/2

Right Out: 78.347 $\pm$ 37.909 χ^2 /NDF: 16.7/18

Left In: 27.484 $\pm$ 99.392 χ^2 /NDF: 1.7/1

Left: 166.563 $\pm$ 67.483 χ^2 /NDF: 11.0/4

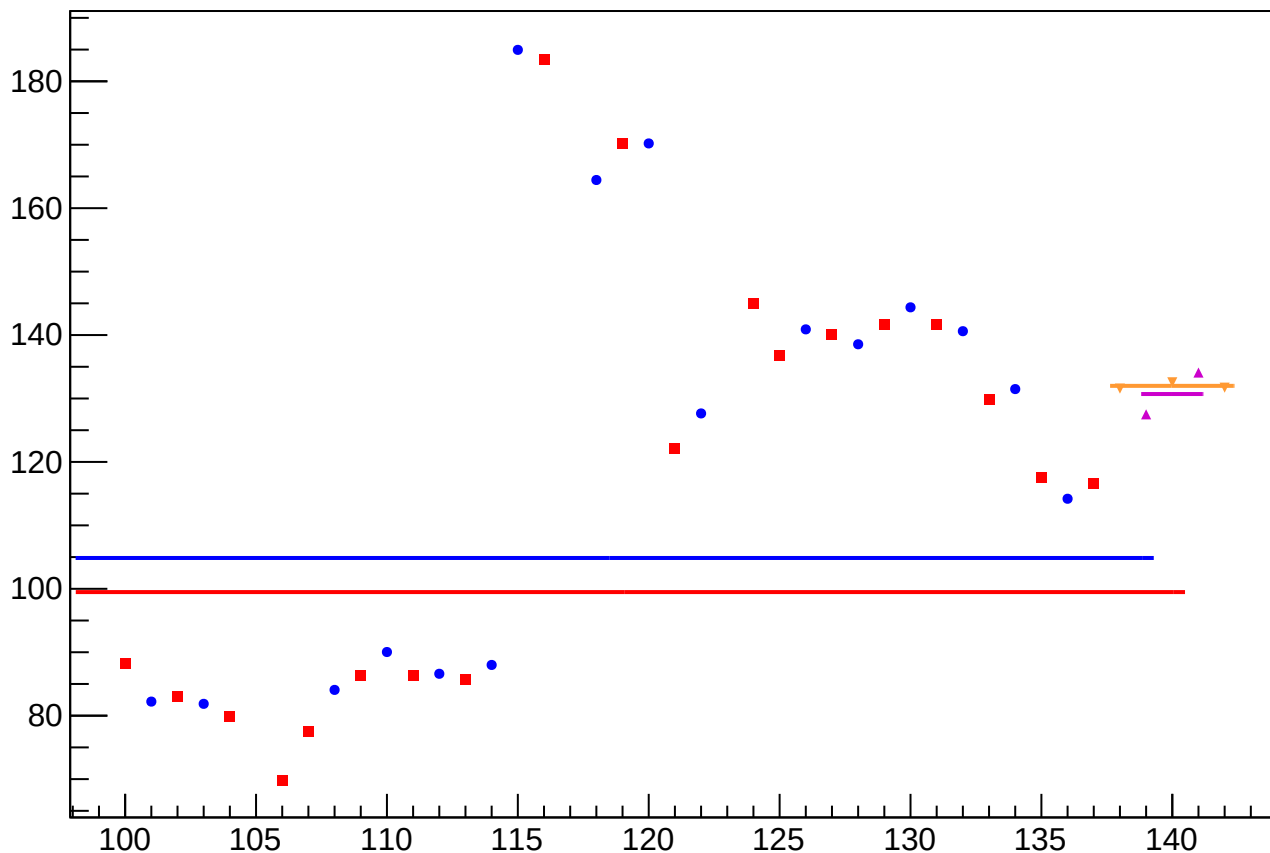
Right: 44.806 $\pm$ 27.629 χ^2 /NDF: 37.1/34

In: 9.726 $\pm$ 37.389 χ^2 /NDF: 20.5/17

Out: 108.462 $\pm$ 35.045 χ^2 /NDF: 26.6/21

All: 62.286 $\pm$ 25.569 χ^2 /NDF: 50.9/39

cor_asym_sam5_rms vs Slug, Sign Corrected



Right In: 104.860 $\pm$ 0.029 χ^2 /NDF: 931227.7/15

Left Out: 131.992 $\pm$ 0.065 χ^2 /NDF:51.0/2

Right Out: 99.484 $\pm$ 0.027 χ^2 /NDF: 1041224.0/18

Left In: 130.704 $\pm$ 0.070 χ^2 /NDF:2193.9/1

Left: 131.398 $\pm$ 0.048 χ^2 /NDF: 2425.8/4

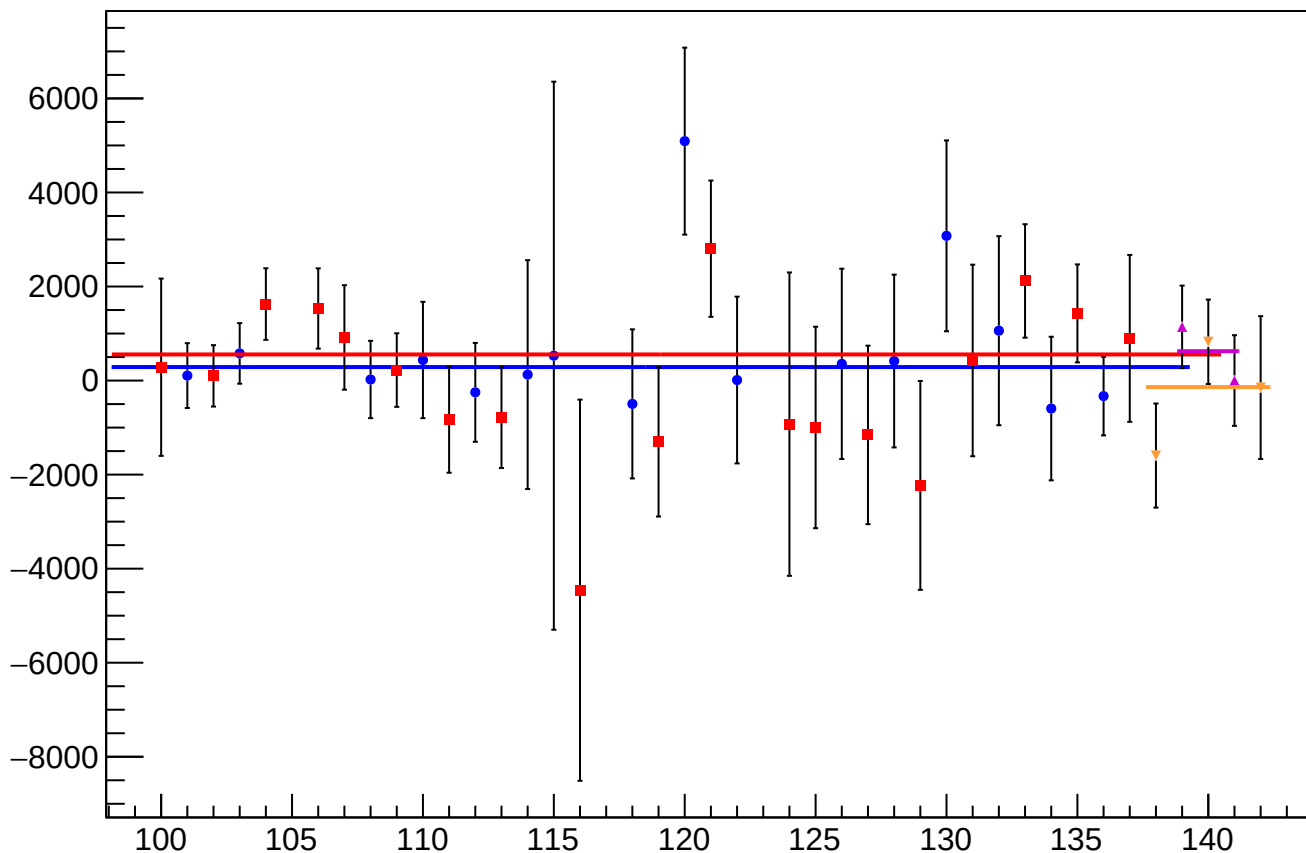
Right: 102.004 $\pm$ 0.020 χ^2 /NDF: 1991307.5/34

In: 108.517 $\pm$ 0.026 χ^2 /NDF:1049511.9/17

Out: 104.209 $\pm$ 0.025 χ^2 /NDF:1255076.5/21

All: 106.224 $\pm$ 0.018 χ^2 /NDF: 2318719.3/39

asym_sam5_cor_correction_mean vs Slug, Sign Corrected



Right In: 286.918+/-293.473 χ^2/NDF : 9.7/15

Left Out: -138.442+/-633.789 χ^2/NDF : 2.9/2

Right Out: 555.436+/-269.953 χ^2/NDF : 18.0/18

Left In: 624.609+/-648.930 χ^2/NDF : 0.8/1

Left: 234.078+/-453.415 χ^2/NDF : 4.4/4

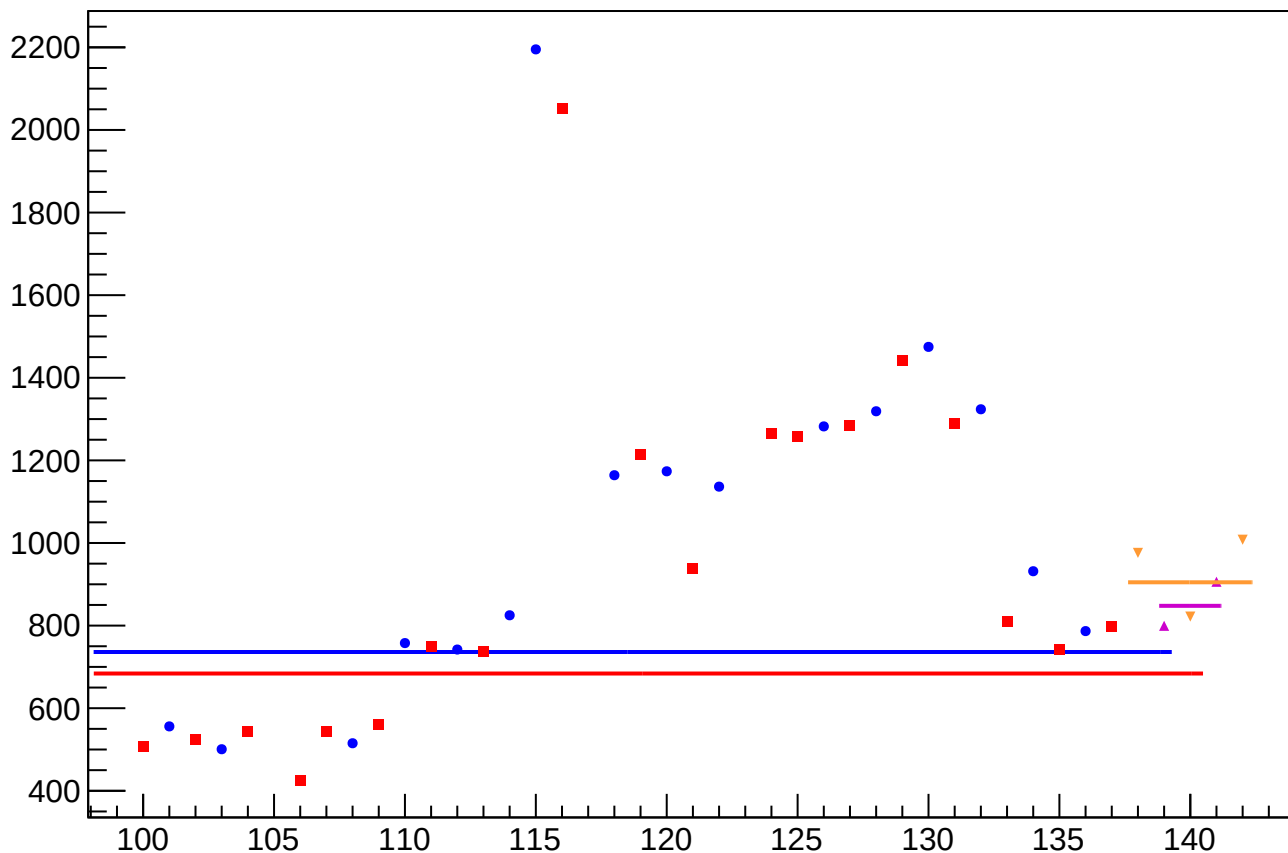
Right: 432.367+/-198.681 χ^2/NDF : 28.2/34

In: 344.256+/-267.400 χ^2/NDF : 10.7/17

Out: 448.883+/-248.363 χ^2/NDF : 21.9/21

All: 400.426+/-181.977 χ^2/NDF : 32.7/39

asym_sam5_cor_correction_rms vs Slug, Sign Corrected



Right In: 736.083+/-0.208 χ^2/NDF : 1844498.2/15

Left Out: 904.846+/-0.448 χ^2/NDF : 34575.6/2

Right Out: 683.981+/-0.191 χ^2/NDF : 1850402.3/18

Left In: 847.872+/-0.459 χ^2/NDF : 13382.2/1

Left: 877.031+/-0.321 χ^2/NDF : 55848.1/4

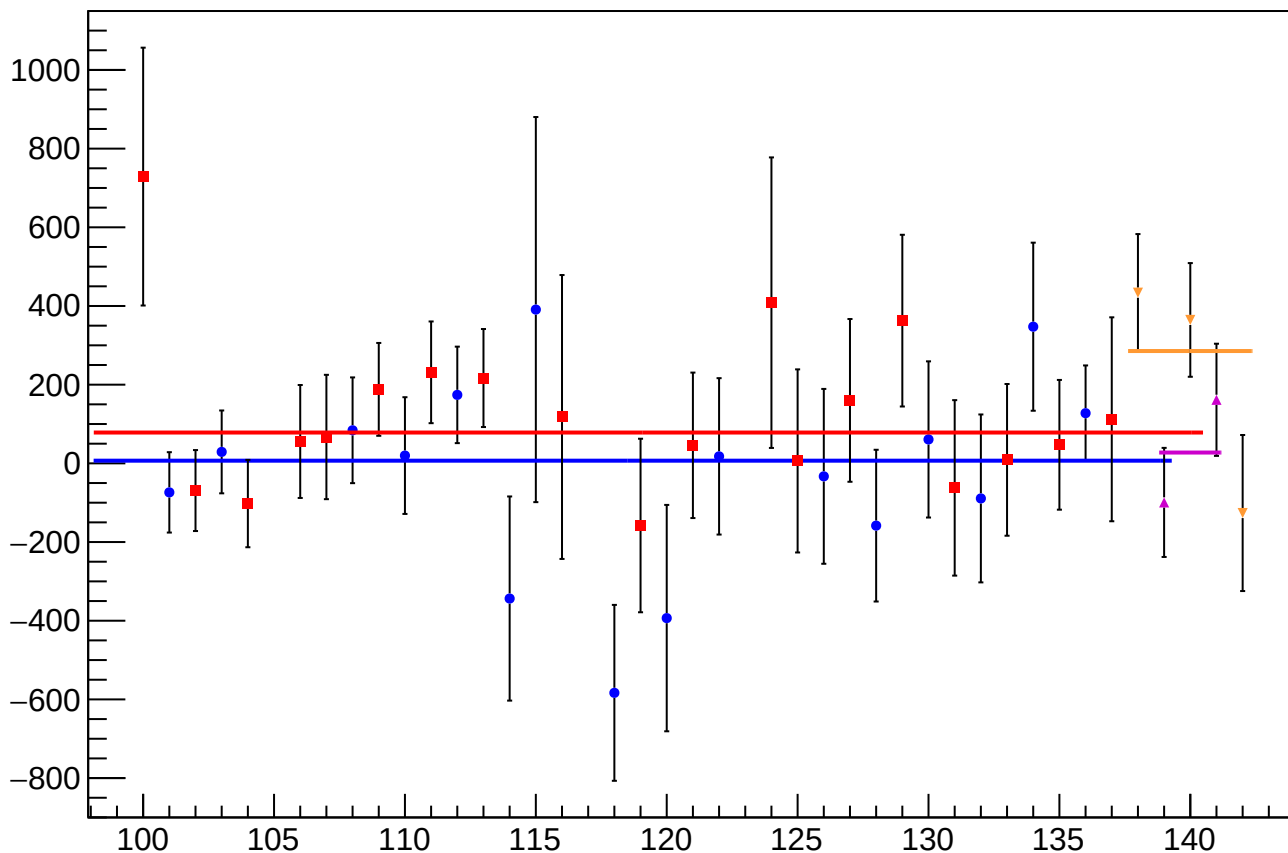
Right: 707.861+/-0.140 χ^2/NDF : 3729047.2/34

In: 755.064+/-0.189 χ^2/NDF : 1907153.6/17

Out: 717.897+/-0.176 χ^2/NDF : 2090562.9/21

All: 735.111+/-0.129 χ^2/NDF : 4018460.6/39

eigen_cor_asym_sam5_mean vs Slug, Sign Corrected



Right In: 6.799 ± 40.353 $\chi^2/\text{NDF}: 18.8/15$

Left Out: 285.507 ± 91.916 $\chi^2/\text{NDF}: 5.6/2$

Right Out: 78.347 ± 37.909 $\chi^2/\text{NDF}: 16.7/18$

Left In: 27.484 ± 99.392 $\chi^2/\text{NDF}: 1.7/1$

Left: 166.563 ± 67.483 $\chi^2/\text{NDF}: 11.0/4$

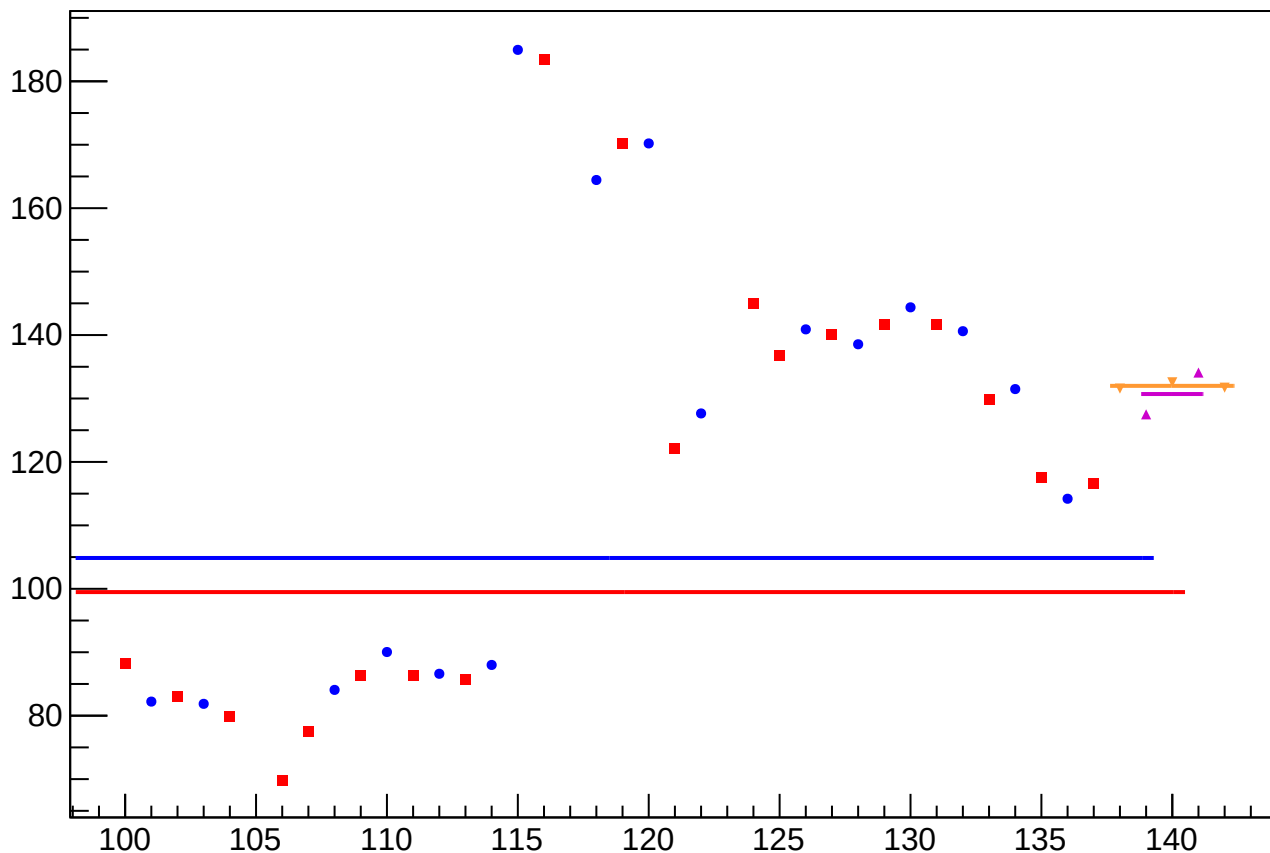
Right: 44.806 ± 27.629 $\chi^2/\text{NDF}: 37.1/34$

In: 9.726 ± 37.389 $\chi^2/\text{NDF}: 20.5/17$

Out: 108.462 ± 35.045 $\chi^2/\text{NDF}: 26.6/21$

All: 62.286 ± 25.569 $\chi^2/\text{NDF}: 50.9/39$

eigen_cor_asym_sam5_rms vs Slug, Sign Corrected



Right In: 104.860+/-0.029 χ^2/NDF : 931227.7/15

Left Out: 131.992+/-0.065 χ^2/NDF : 51.0/2

Right Out: 99.484+/-0.027 χ^2/NDF : 1041224.0/18

Left In: 130.704+/-0.070 χ^2/NDF : 2193.9/1

Left: 131.398+/-0.048 χ^2/NDF : 2425.8/4

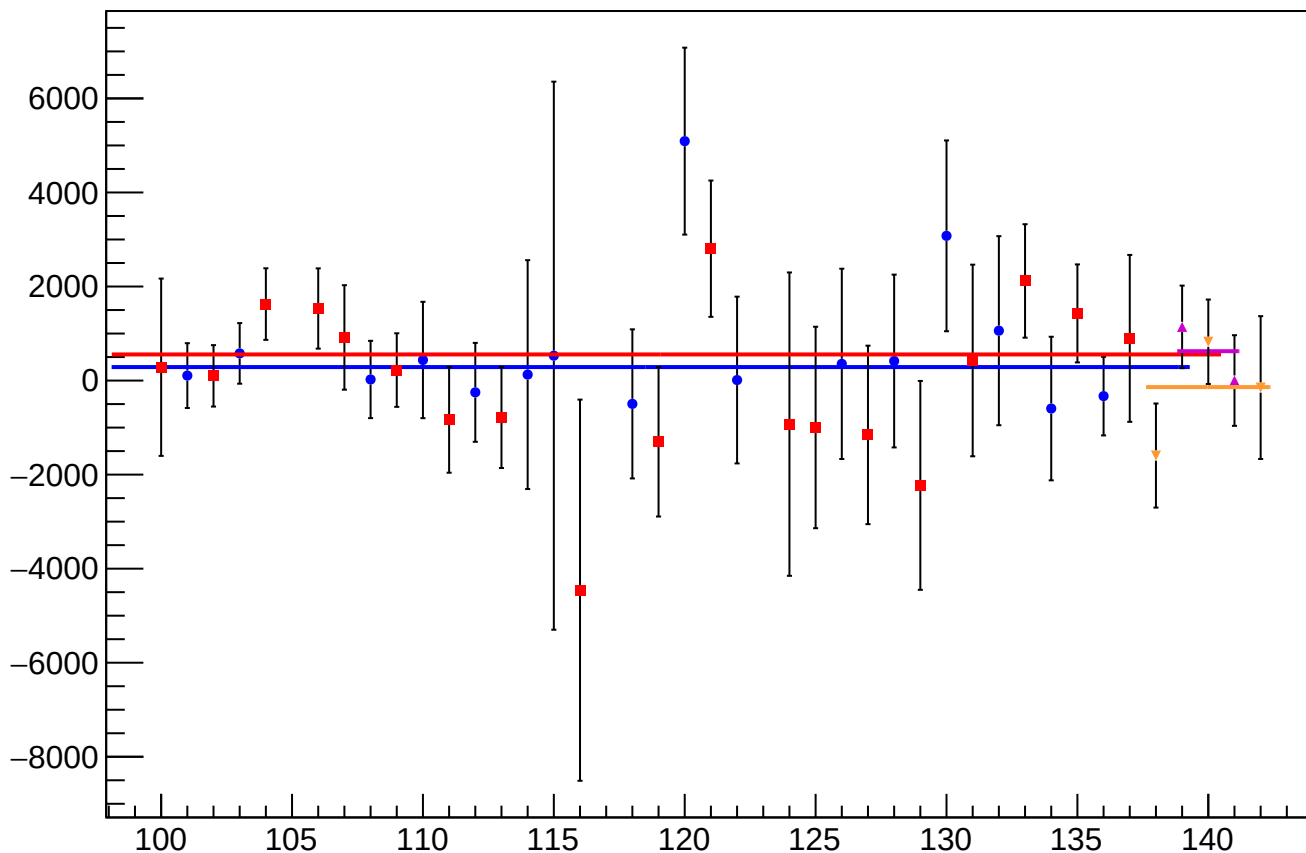
Right: 102.004+/-0.020 χ^2/NDF : 1991307.5/34

In: 108.517+/-0.026 χ^2/NDF : 1049511.9/17

Out: 104.209+/-0.025 χ^2/NDF : 1255076.5/21

All: 106.224+/-0.018 χ^2/NDF : 2318719.3/39

asym_sam5_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 286.918+/-293.473 χ^2/NDF : 9.7/15

Left Out: -138.442+/-633.789 χ^2/NDF : 2.9/2

Right Out: 555.436+/-269.953 χ^2/NDF : 18.0/18

Left In: 624.609+/-648.930 χ^2/NDF : 0.8/1

Left: 234.078+/-453.415 χ^2/NDF : 4.4/4

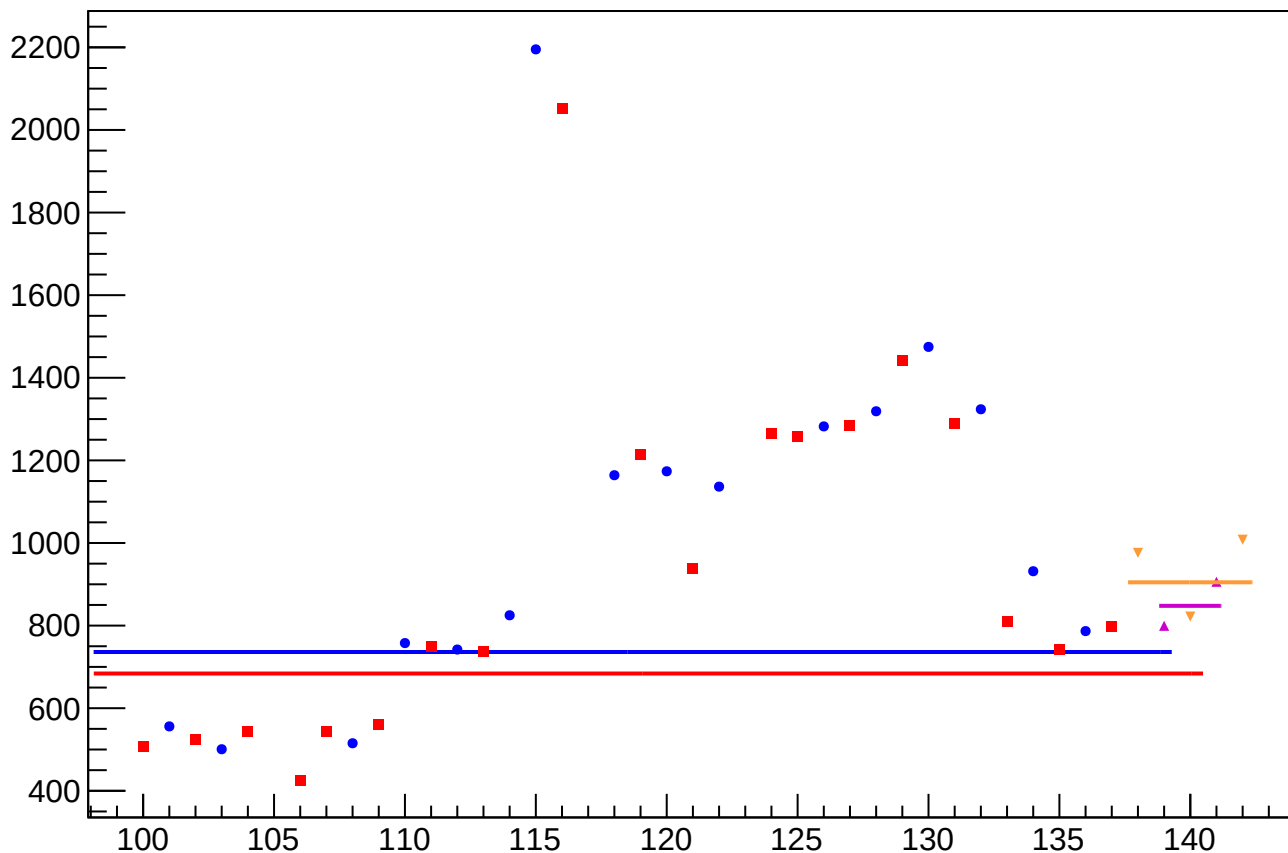
Right: 432.367+/-198.681 χ^2/NDF : 28.2/34

In: 344.256+/-267.400 χ^2/NDF : 10.7/17

Out: 448.883+/-248.363 χ^2/NDF : 21.9/21

All: 400.426+/-181.977 χ^2/NDF : 32.7/39

asym_sam5_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 736.083+/-0.208 χ^2/NDF : 1844498.2/15

Left Out: 904.846+/-0.448 χ^2/NDF : 34575.6/2

Right Out: 683.981+/-0.191 χ^2/NDF : 1850402.3/18

Left In: 847.872+/-0.459 χ^2/NDF : 13382.2/1

Left: 877.031+/-0.321 χ^2/NDF : 55848.1/4

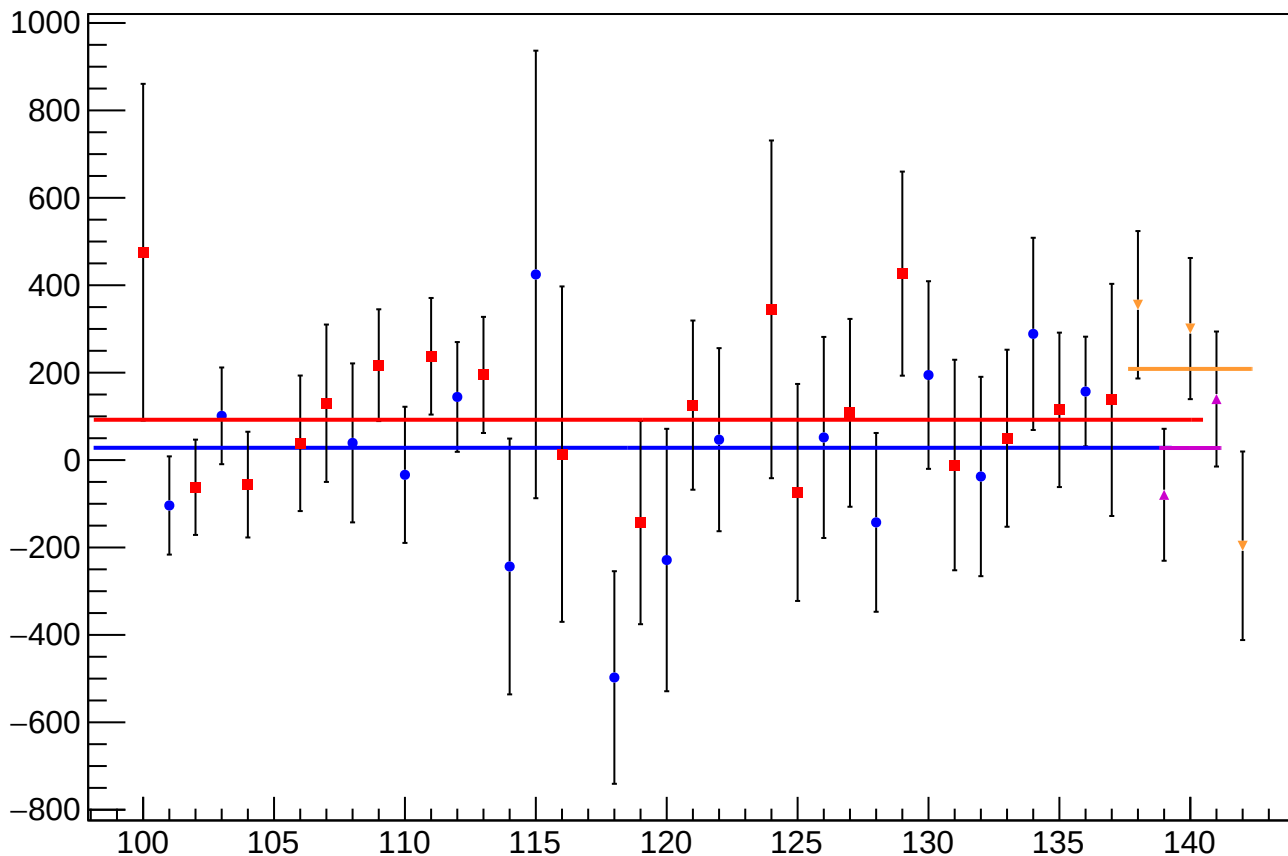
Right: 707.861+/-0.140 χ^2/NDF : 3729047.2/34

In: 755.064+/-0.189 χ^2/NDF : 1907153.6/17

Out: 717.897+/-0.176 χ^2/NDF : 2090562.9/21

All: 735.111+/-0.129 χ^2/NDF : 4018460.6/39

dit_asym_sam5_mean vs Slug, Sign Corrected



Right In: 28.094+/-43.439 χ^2/NDF : 13.6/15

Left Out: 208.585+/-102.603 χ^2/NDF : 4.6/2

Right Out: 92.247+/-40.539 χ^2/NDF : 11.7/18

Left In: 27.614+/-107.957 χ^2/NDF : 1.0/1

Left: 122.698+/-74.372 χ^2/NDF : 7.1/4

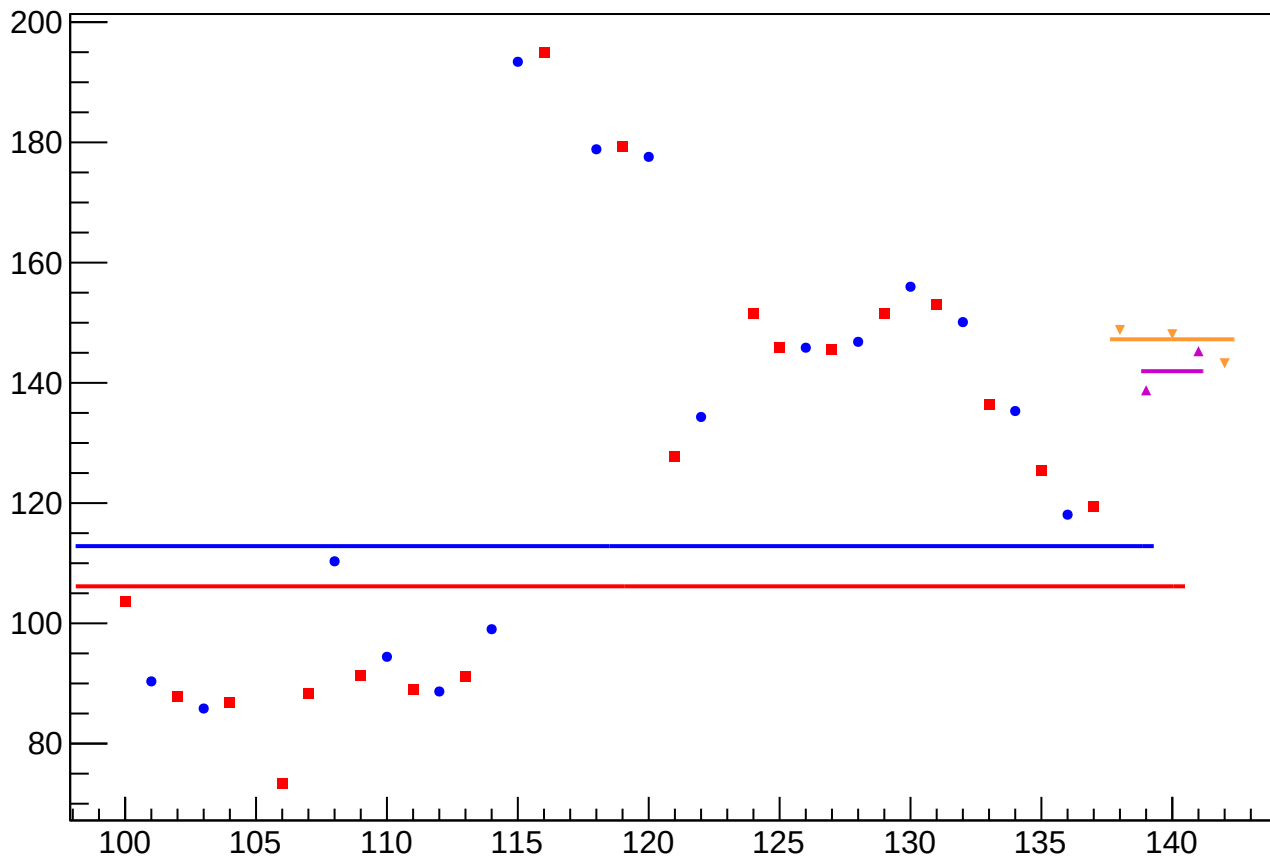
Right: 62.383+/-29.638 χ^2/NDF : 26.4/34

In: 28.027+/-40.299 χ^2/NDF : 14.6/17

Out: 107.956+/-37.703 χ^2/NDF : 17.4/21

All: 70.649+/-27.532 χ^2/NDF : 34.1/39

dit_asym_sam5_rms vs Slug, Sign Corrected



Right In: 112.843 $\pm$ 0.031 χ^2 /NDF: 872225.9/15

Left Out: 147.247 $\pm$ 0.073 χ^2 /NDF:904.9/2

Right Out: 106.159 $\pm$ 0.029 χ^2 /NDF: 1002148.0/18

Left In: 141.942 $\pm$ 0.076 χ^2 /NDF:1812.5/1

Left: 144.729 $\pm$ 0.053 χ^2 /NDF: 5255.1/4

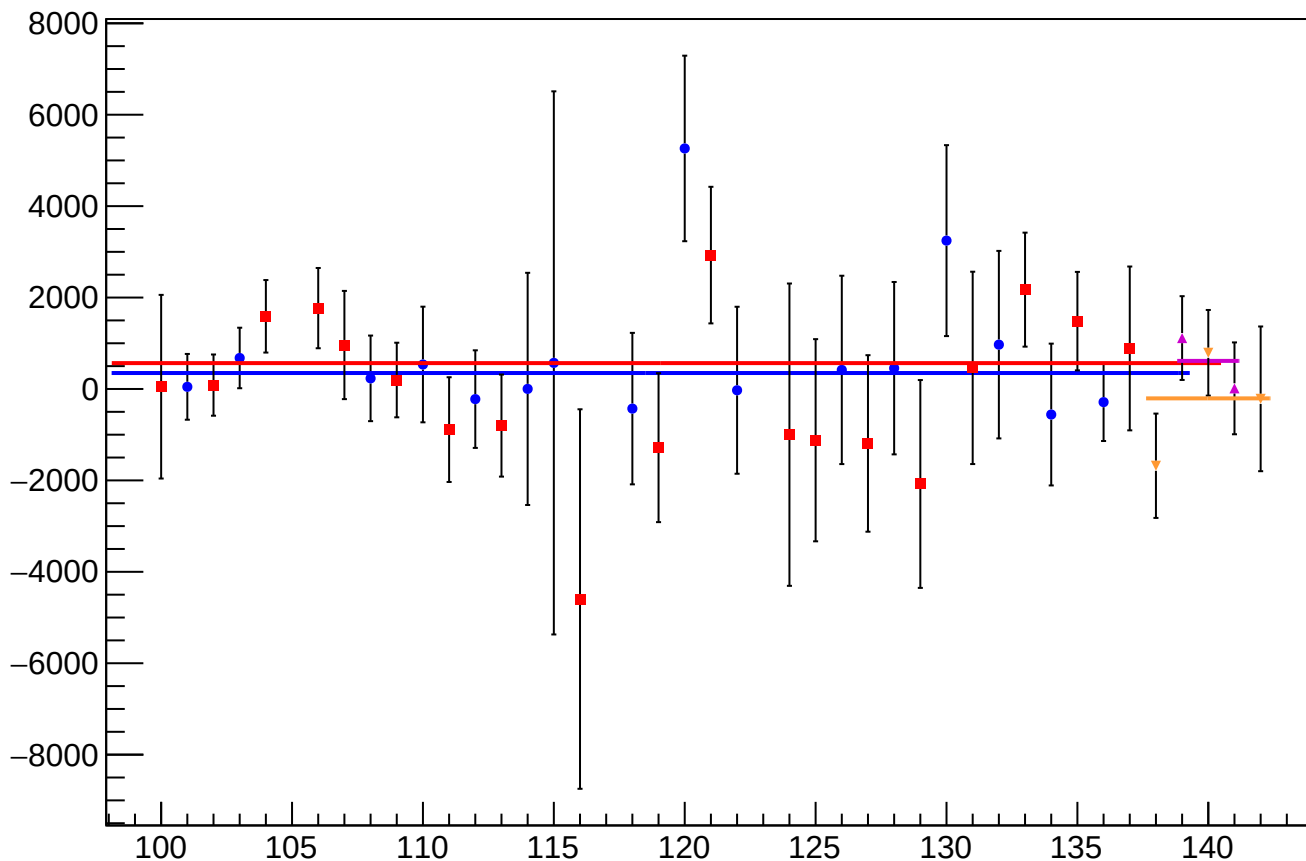
Right: 109.270 $\pm$ 0.021 χ^2 /NDF: 1899683.8/34

In: 116.897 $\pm$ 0.028 χ^2 /NDF:999101.5/17

Out: 111.707 $\pm$ 0.027 χ^2 /NDF:1280484.7/21

All: 114.130 $\pm$ 0.019 χ^2 /NDF: 2297280.1/39

asym_sam5_dit_correction_mean vs Slug, Sign Corrected



Right In: 349.112 $\pm$ 305.328 χ^2 /NDF: 9.8/15

Left Out: -205.572 $\pm$ 658.489 χ^2 /NDF:2.8/2

Right Out: 566.026 $\pm$ 279.219 χ^2 /NDF: 18.3/18

Left In: 614.326 $\pm$ 677.049 χ^2 /NDF:0.7/1

Left: 192.985 $\pm$ 472.047 χ^2 /NDF: 4.2/4

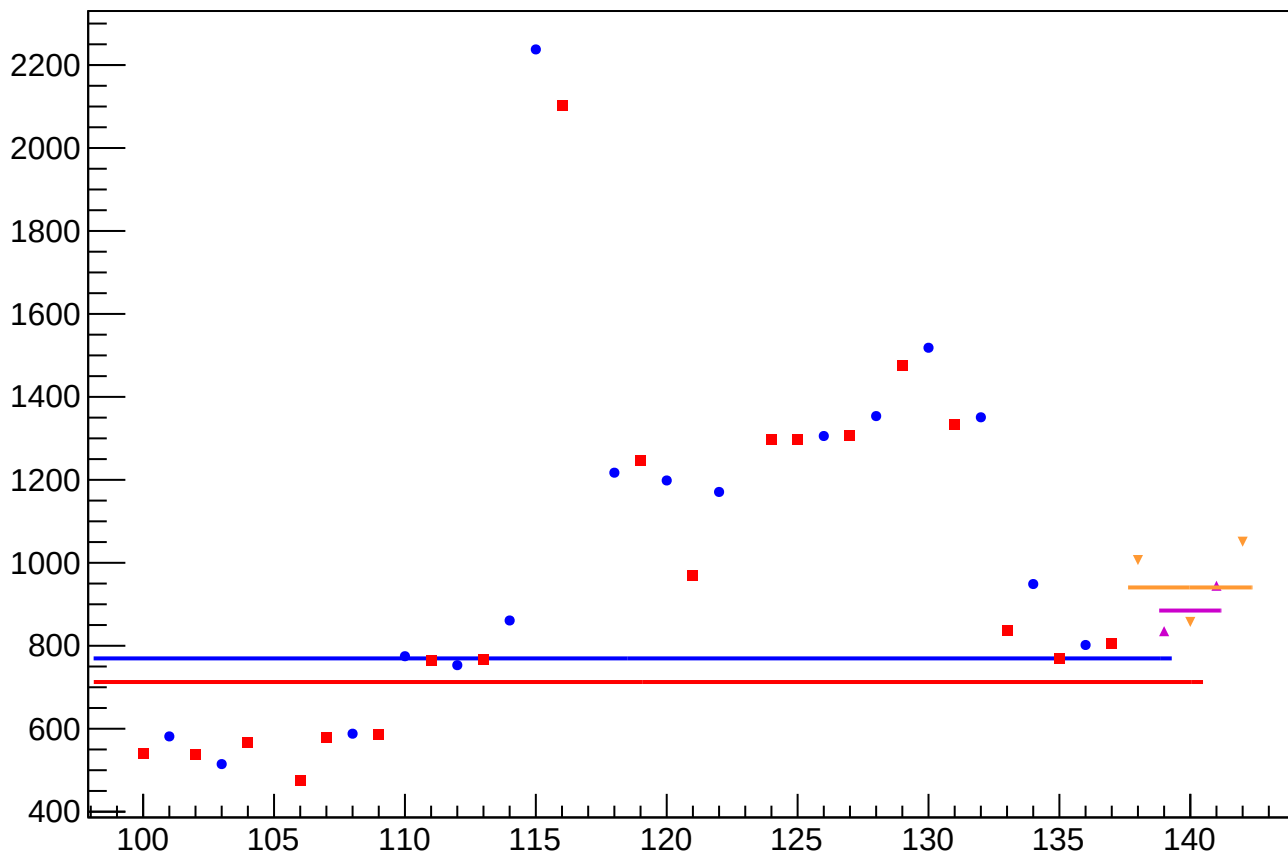
Right: 467.239 $\pm$ 206.051 χ^2 /NDF: 28.4/34

In: 393.934 $\pm$ 278.334 χ^2 /NDF:10.6/17

Out: 448.435 $\pm$ 257.063 χ^2 /NDF:22.3/21

All: 423.347 $\pm$ 188.844 χ^2 /NDF: 32.9/39

asym_sam5_dit_correction_rms vs Slug, Sign Corrected



Right In: 769.557+/-0.216 χ^2/NDF : 1739937.3/15

Left Out: 940.598+/-0.466 χ^2/NDF : 32151.7/2

Right Out: 712.628+/-0.197 χ^2/NDF : 1767226.6/18

Left In: 884.916+/-0.479 χ^2/NDF : 12971.3/1

Left: 913.531+/-0.334 χ^2/NDF : 52074.6/4

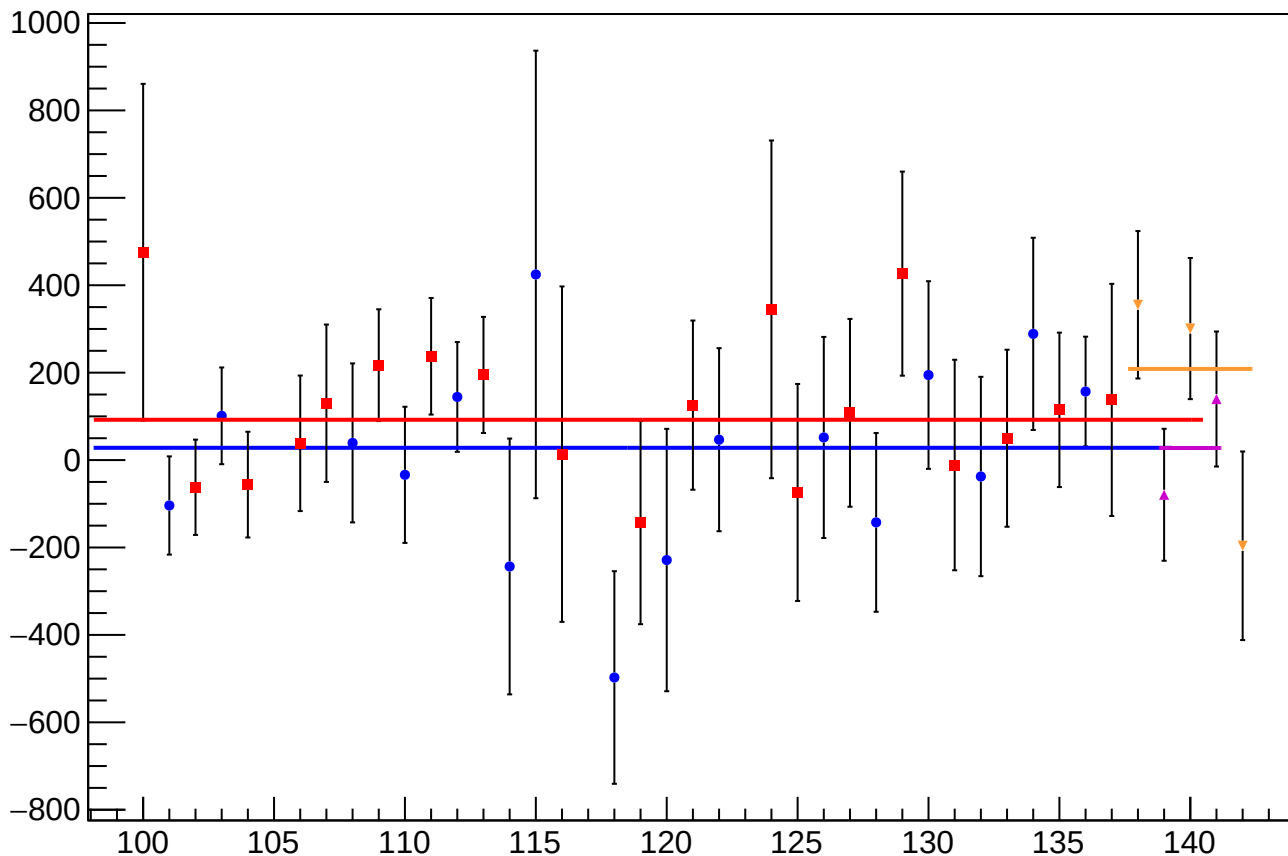
Right: 738.555+/-0.146 χ^2/NDF : 3545027.5/34

In: 789.053+/-0.197 χ^2/NDF : 1801158.2/17

Out: 747.371+/-0.182 χ^2/NDF : 2002557.0/21

All: 766.559+/-0.134 χ^2/NDF : 3827921.5/39

eigen_dit_asym_sam5_mean vs Slug, Sign Corrected



Right In: 28.093+/-43.439 χ^2/NDF : 13.6/15

Left Out: 208.584+/-102.603 χ^2/NDF : 4.6/2

Right Out: 92.247+/-40.539 χ^2/NDF : 11.7/18

Left In: 27.616+/-107.957 χ^2/NDF : 1.0/1

Left: 122.698+/-74.372 χ^2/NDF : 7.1/4

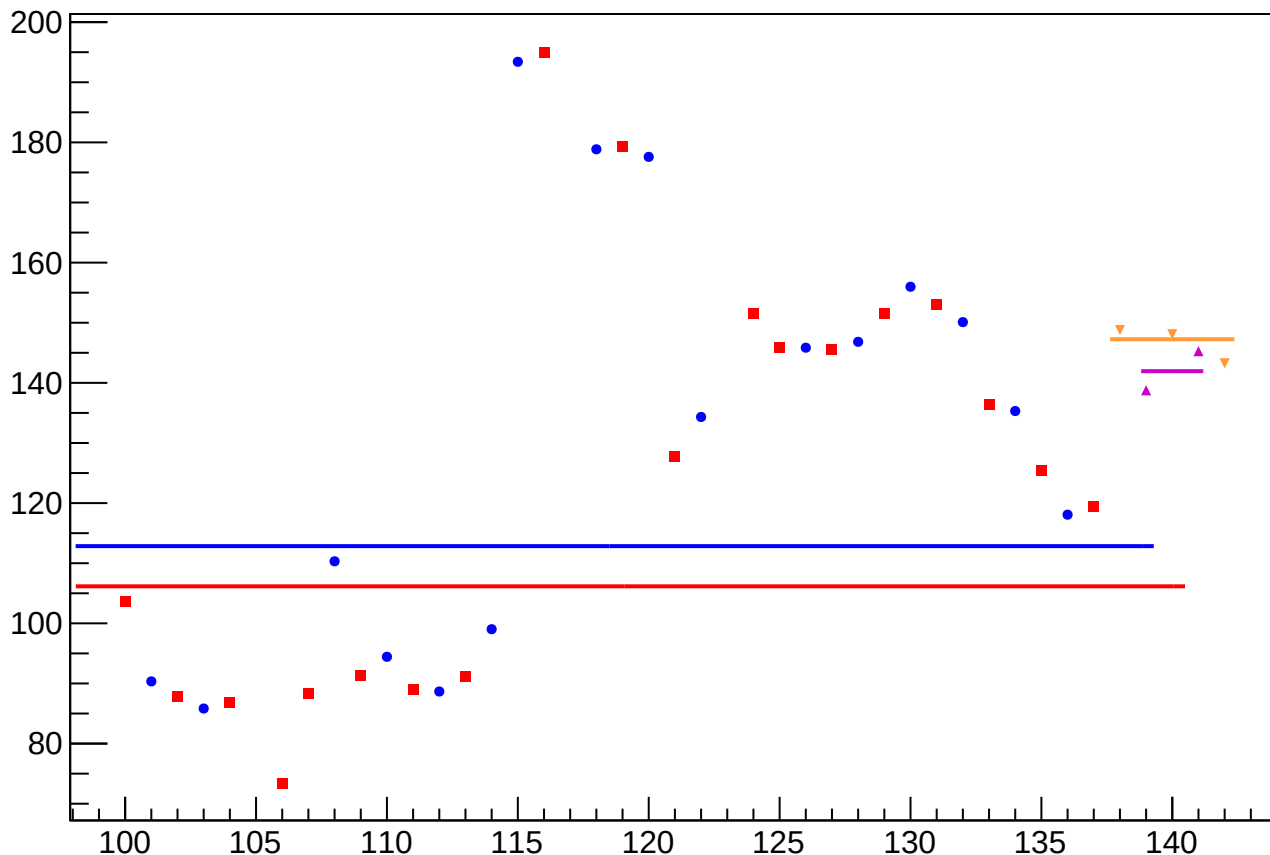
Right: 62.383+/-29.637 χ^2/NDF : 26.4/34

In: 28.026+/-40.299 χ^2/NDF : 14.6/17

Out: 107.956+/-37.703 χ^2/NDF : 17.4/21

All: 70.648+/-27.532 χ^2/NDF : 34.1/39

eigen_dit_asym_sam5_rms vs Slug, Sign Corrected



Right In: 112.842 $\pm$ 0.031 χ^2 /NDF: 872219.7/15

Left Out: 147.248 $\pm$ 0.073 χ^2 /NDF: 905.1/2

Right Out: 106.158 $\pm$ 0.029 χ^2 /NDF: 1002136.6/18

Left In: 141.943 $\pm$ 0.076 χ^2 /NDF: 1812.5/1

Left: 144.730 $\pm$ 0.053 χ^2 /NDF: 5255.2/4

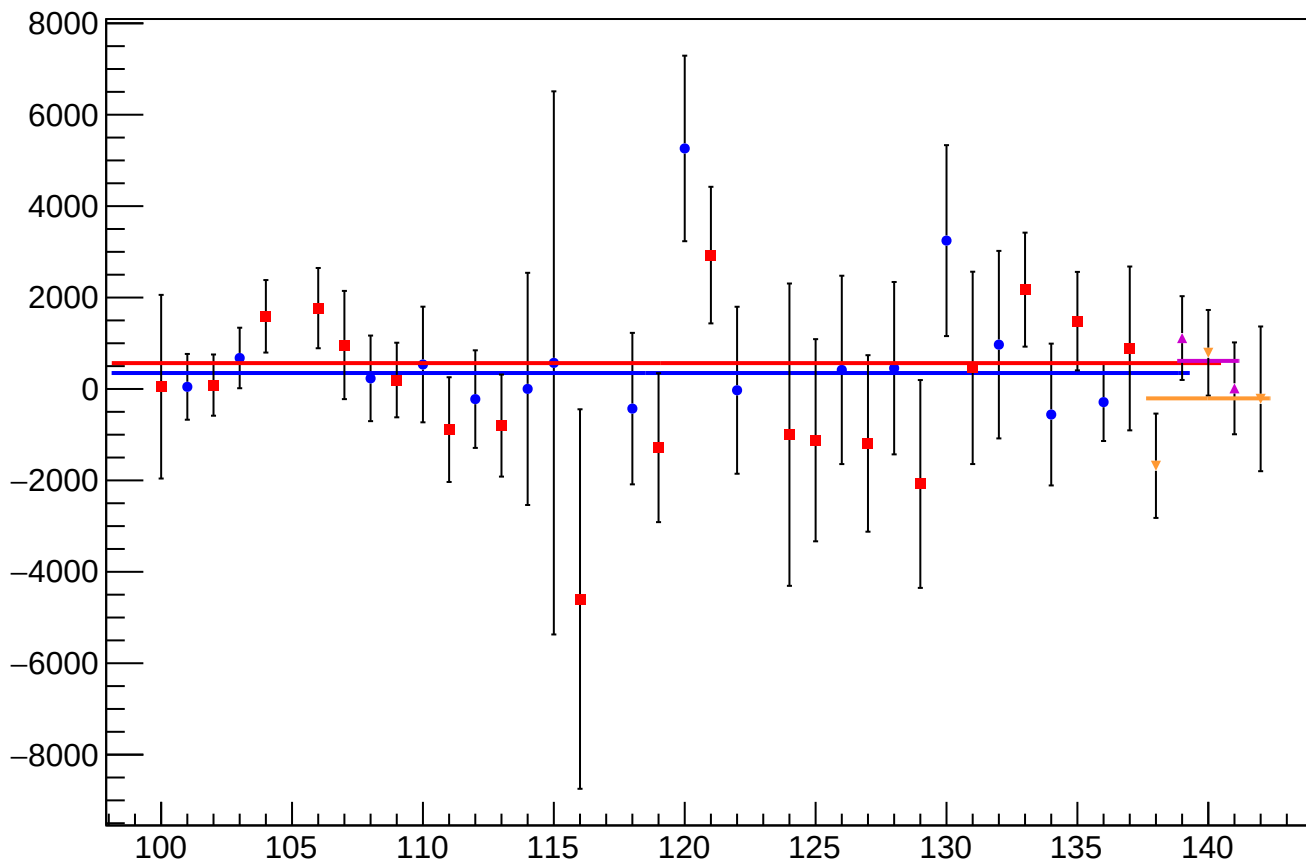
Right: 109.270 $\pm$ 0.021 χ^2 /NDF: 1899665.6/34

In: 116.897 $\pm$ 0.028 χ^2 /NDF: 999104.0/17

Out: 111.707 $\pm$ 0.027 χ^2 /NDF: 1280484.8/21

All: 114.129 $\pm$ 0.019 χ^2 /NDF: 2297282.4/39

asym_sam5_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 349.111 $\pm$ 305.328 χ^2 /NDF: 9.8/15

Left Out: -205.572 $\pm$ 658.491 χ^2 /NDF:2.8/2

Right Out: 566.026 $\pm$ 279.218 χ^2 /NDF: 18.3/18

Left In: 614.328 $\pm$ 677.051 χ^2 /NDF:0.7/1

Left: 192.987 $\pm$ 472.049 χ^2 /NDF: 4.2/4

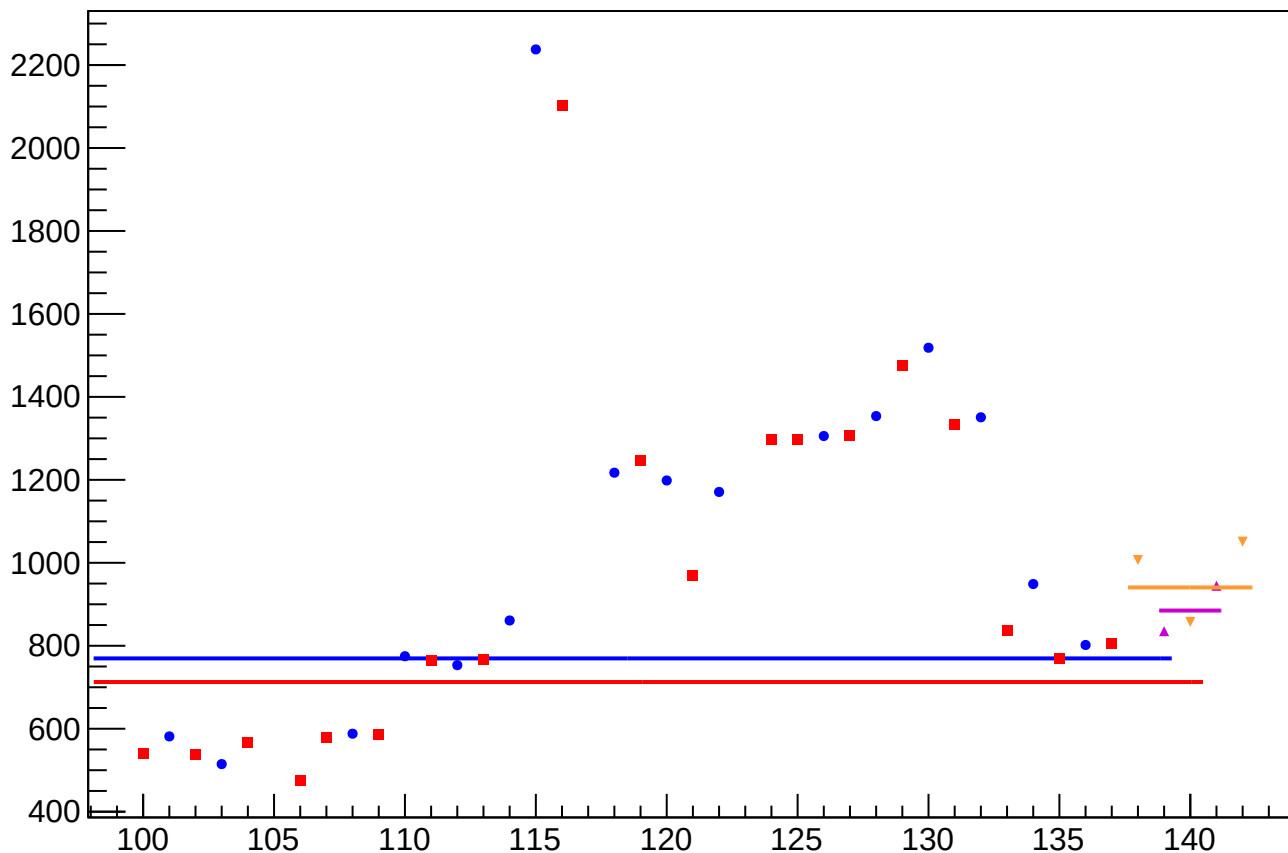
Right: 467.238 $\pm$ 206.050 χ^2 /NDF: 28.4/34

In: 393.933 $\pm$ 278.334 χ^2 /NDF:10.6/17

Out: 448.436 $\pm$ 257.063 χ^2 /NDF:22.3/21

All: 423.347 $\pm$ 188.844 χ^2 /NDF: 32.9/39

asym_sam5_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 769.556+/-0.216 χ^2/NDF : 1739933.9/15

Left Out: 940.601+/-0.466 χ^2/NDF :32151.4/2

Right Out: 712.627+/-0.197 χ^2/NDF : 1767219.7/18

Left In: 884.919+/-0.479 χ^2/NDF :12971.6/1

Left: 913.534+/-0.334 χ^2/NDF : 52074.9/4

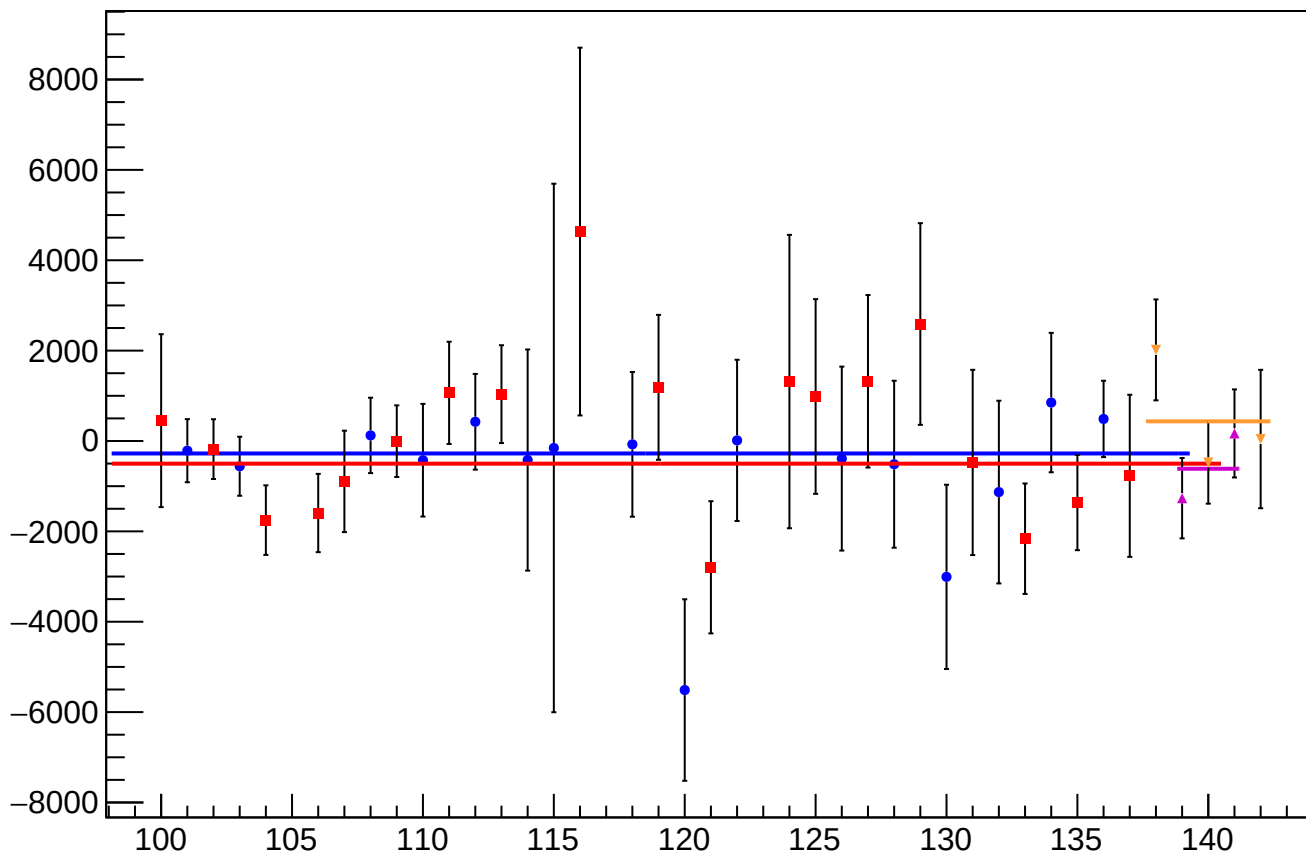
Right: 738.554+/-0.146 χ^2/NDF : 3545017.2/34

In: 789.053+/-0.197 χ^2/NDF :1801158.0/17

Out: 747.370+/-0.182 χ^2/NDF :2002556.6/21

All: 766.558+/-0.134 χ^2/NDF : 3827921.1/39

asym_sam5_mean vs Slug, Sign Corrected



Right In: -276.199+/-296.708 χ^2/NDF : 11.1/15

Left Out: 435.047+/-640.800 χ^2/NDF : 3.1/2

Right Out: -501.985+/-272.991 χ^2/NDF : 20.5/18

Left In: -614.484+/-656.814 χ^2/NDF : 1.2/1

Left: -76.769+/-458.671 χ^2/NDF : 5.6/4

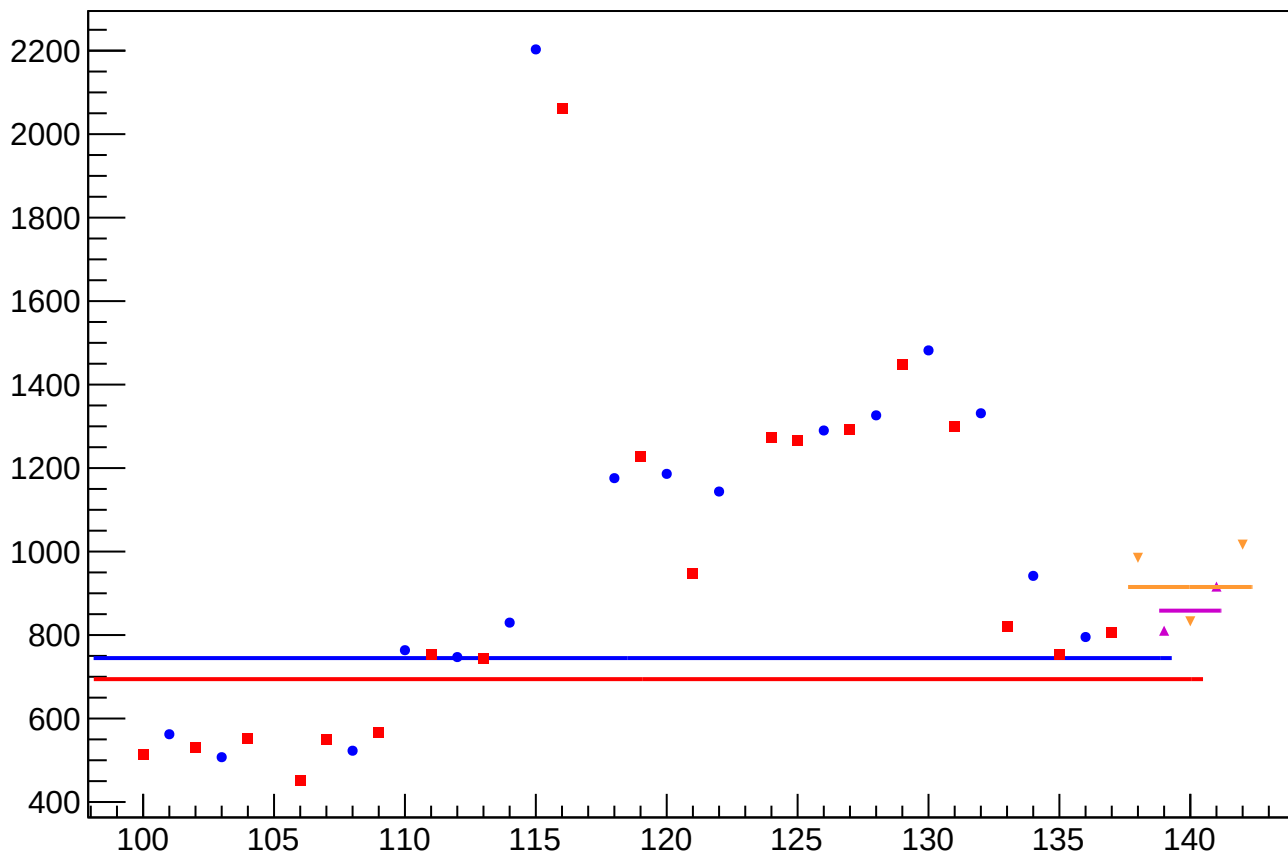
Right: -398.475+/-200.896 χ^2/NDF : 31.9/34

In: -333.532+/-270.398 χ^2/NDF : 12.5/17

Out: -358.047+/-251.150 χ^2/NDF : 25.4/21

All: -346.693+/-184.019 χ^2/NDF : 37.8/39

asym_sam5_rms vs Slug, Sign Corrected



Right In: 744.783+/-0.210 χ^2/NDF : 1822553.5/15

Left Out: 915.117+/-0.453 χ^2/NDF : 32967.4/2

Right Out: 694.348+/-0.193 χ^2/NDF : 1803741.9/18

Left In: 858.436+/-0.464 χ^2/NDF : 12848.0/1

Left: 887.476+/-0.324 χ^2/NDF : 53446.4/4

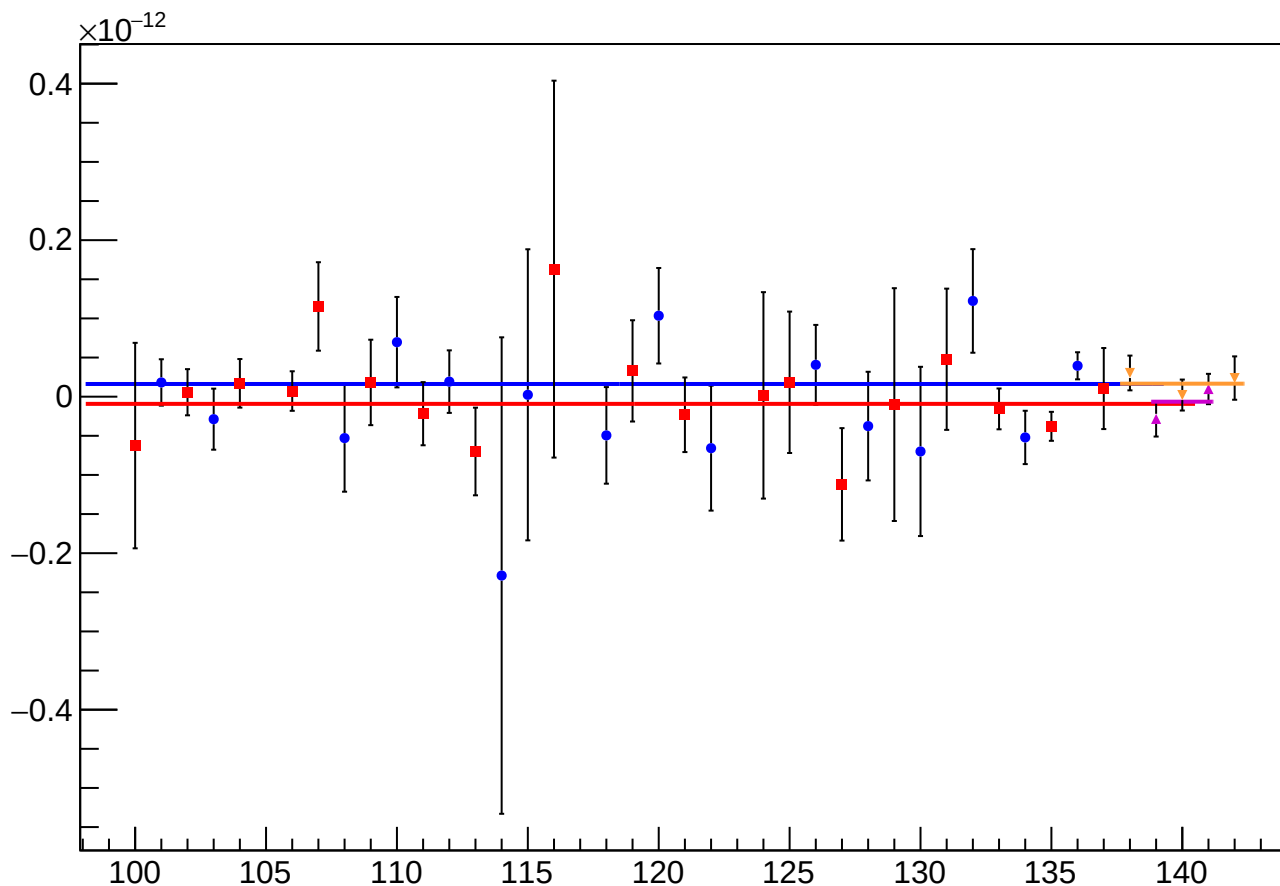
Right: 717.469+/-0.142 χ^2/NDF : 3657590.2/34

In: 764.045+/-0.191 χ^2/NDF : 1885136.0/17

Out: 728.261+/-0.178 χ^2/NDF : 2037633.2/21

All: 744.834+/-0.130 χ^2/NDF : 3941573.7/39

asym_sam5_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18.0/15

Left Out: 0.000+/-0.000 χ^2/NDF :1.0/2

Right Out: -0.000+/-0.000 χ^2/NDF : 14.1/18

Left In: -0.000+/-0.000 χ^2/NDF :1.6/1

Left: 0.000+/-0.000 χ^2/NDF : 4.0/4

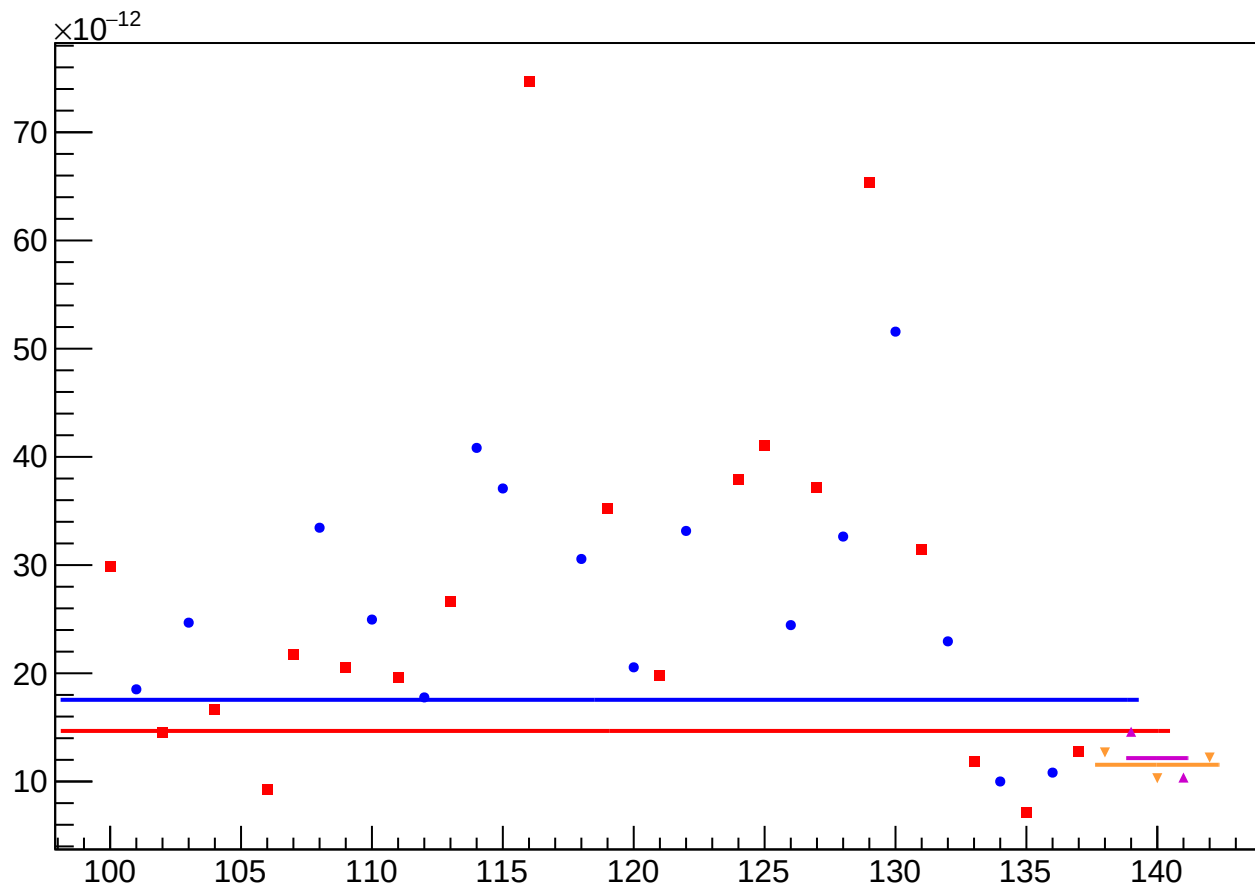
Right: 0.000+/-0.000 χ^2/NDF : 35.3/34

In: 0.000+/-0.000 χ^2/NDF :21.1/17

Out: -0.000+/-0.000 χ^2/NDF :17.7/21

All: 0.000+/-0.000 χ^2/NDF : 39.4/39

asym_sam5_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1156509.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 14343.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1741597.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 40470.3/1

Left: 0.000+/-0.000 χ^2/NDF : 56778.1/4

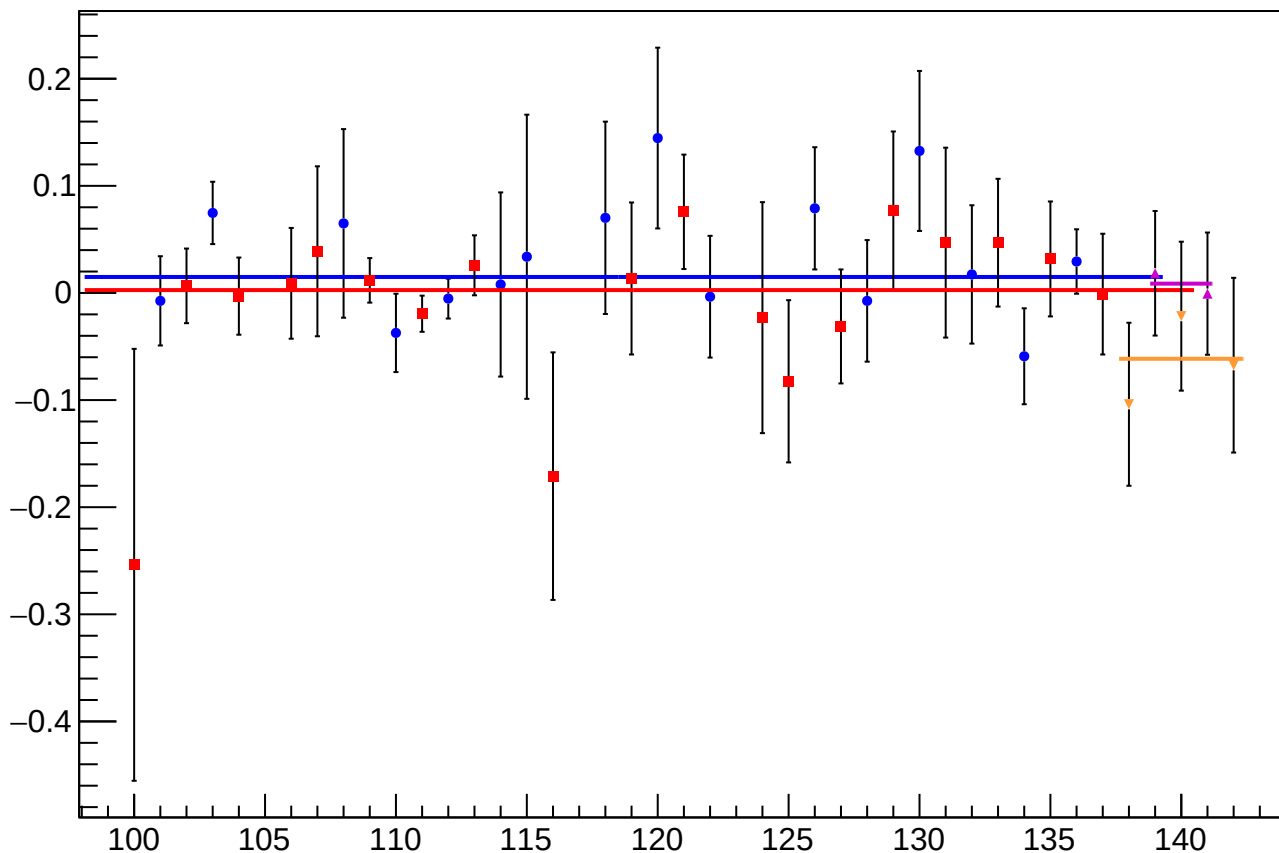
Right: 0.000+/-0.000 χ^2/NDF : 2980076.4/34

In: 0.000+/-0.000 χ^2/NDF : 1372641.6/17

Out: 0.000+/-0.000 χ^2/NDF : 1831802.1/21

All: 0.000+/-0.000 χ^2/NDF : 3269795.5/39

asym_sam5_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.011 χ^2 /NDF: 17.8/15

Left Out: -0.061 $\pm$ 0.043 χ^2 /NDF:0.6/2

Right Out: 0.003 $\pm$ 0.009 χ^2 /NDF: 12.5/18

Left In: 0.009 $\pm$ 0.041 χ^2 /NDF:0.1/1

Left: -0.024 $\pm$ 0.030 χ^2 /NDF: 2.1/4

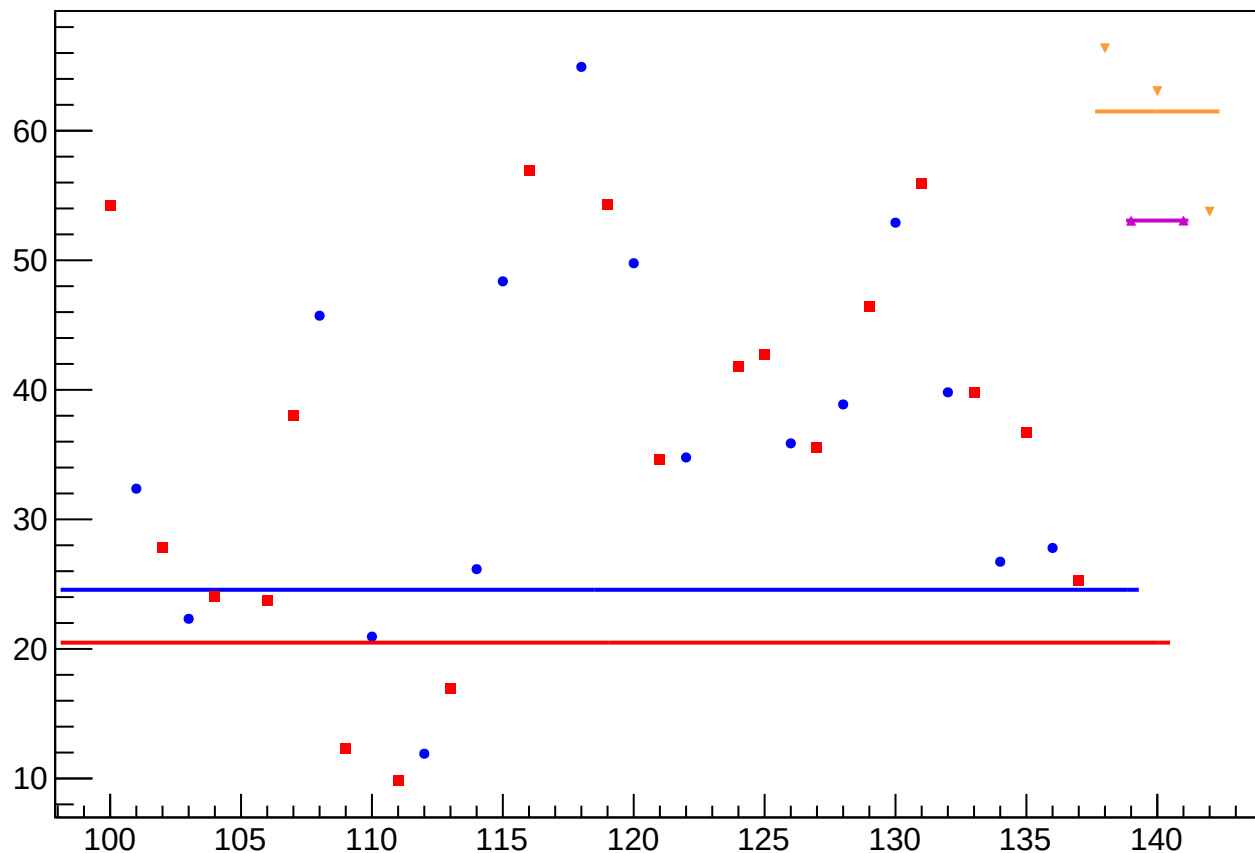
Right: 0.008 $\pm$ 0.007 χ^2 /NDF: 31.0/34

In: 0.015 $\pm$ 0.010 χ^2 /NDF:17.9/17

Out: -0.000 $\pm$ 0.009 χ^2 /NDF:15.2/21

All: 0.006 $\pm$ 0.007 χ^2 /NDF: 34.2/39

asym_sam5_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.566 $\pm$ 0.007 χ^2/NDF : 2484530.5/15

Left Out: 61.487 $\pm$ 0.031 χ^2/NDF : 27238.7/2

Right Out: 20.488 $\pm$ 0.007 χ^2/NDF : 3583938.4/18

Left In: 53.068 $\pm$ 0.029 χ^2/NDF : 0.1/1

Left: 57.007 $\pm$ 0.021 χ^2/NDF : 67228.4/4

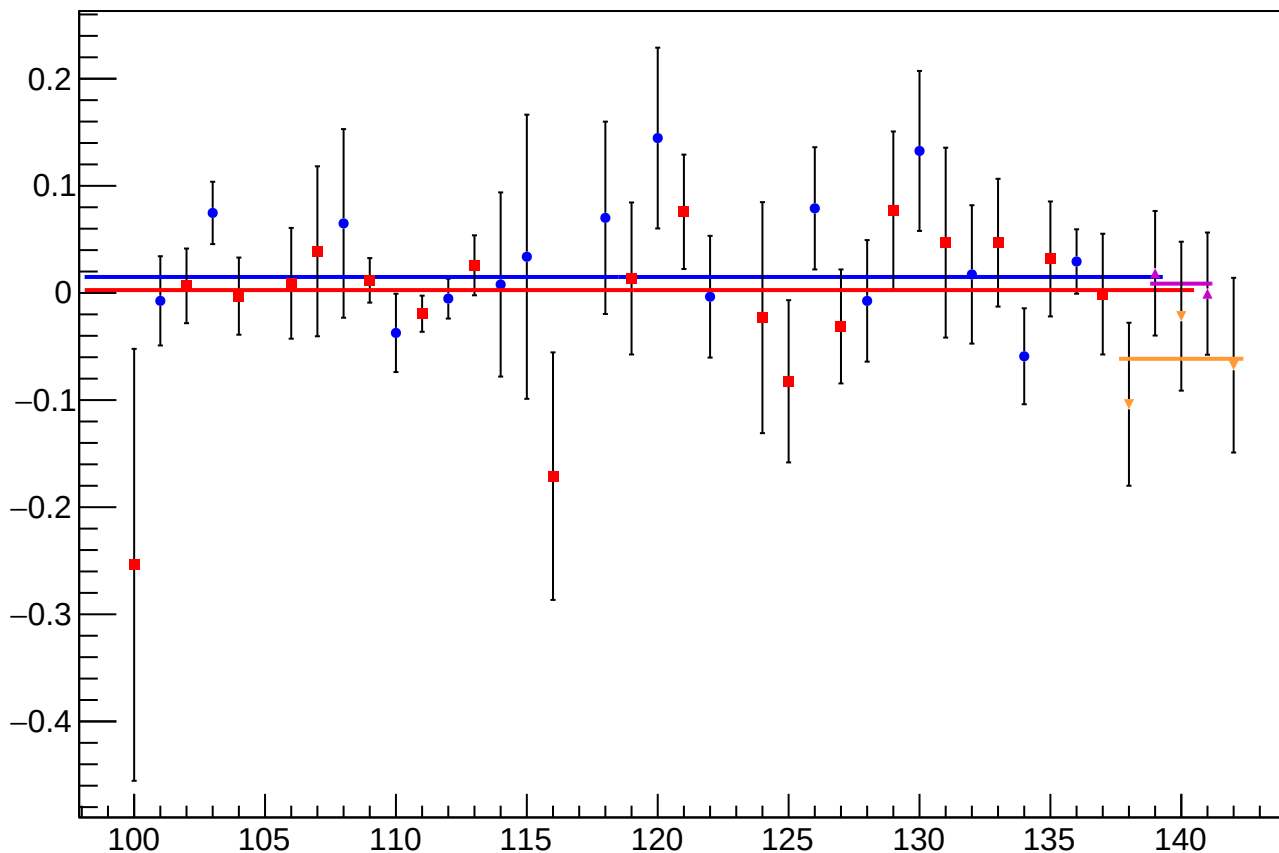
Right: 22.248 $\pm$ 0.005 χ^2/NDF : 6237147.6/34

In: 26.371 $\pm$ 0.007 χ^2/NDF : 3402241.3/17

Out: 22.258 $\pm$ 0.006 χ^2/NDF : 5316096.9/21

All: 24.054 $\pm$ 0.005 χ^2/NDF : 8899811.4/39

asym_sam5_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.011 χ^2 /NDF: 17.8/15

Left Out: -0.061 $\pm$ 0.043 χ^2 /NDF:0.6/2

Right Out: 0.003 $\pm$ 0.009 χ^2 /NDF: 12.5/18

Left In: 0.009 $\pm$ 0.041 χ^2 /NDF:0.1/1

Left: -0.024 $\pm$ 0.030 χ^2 /NDF: 2.1/4

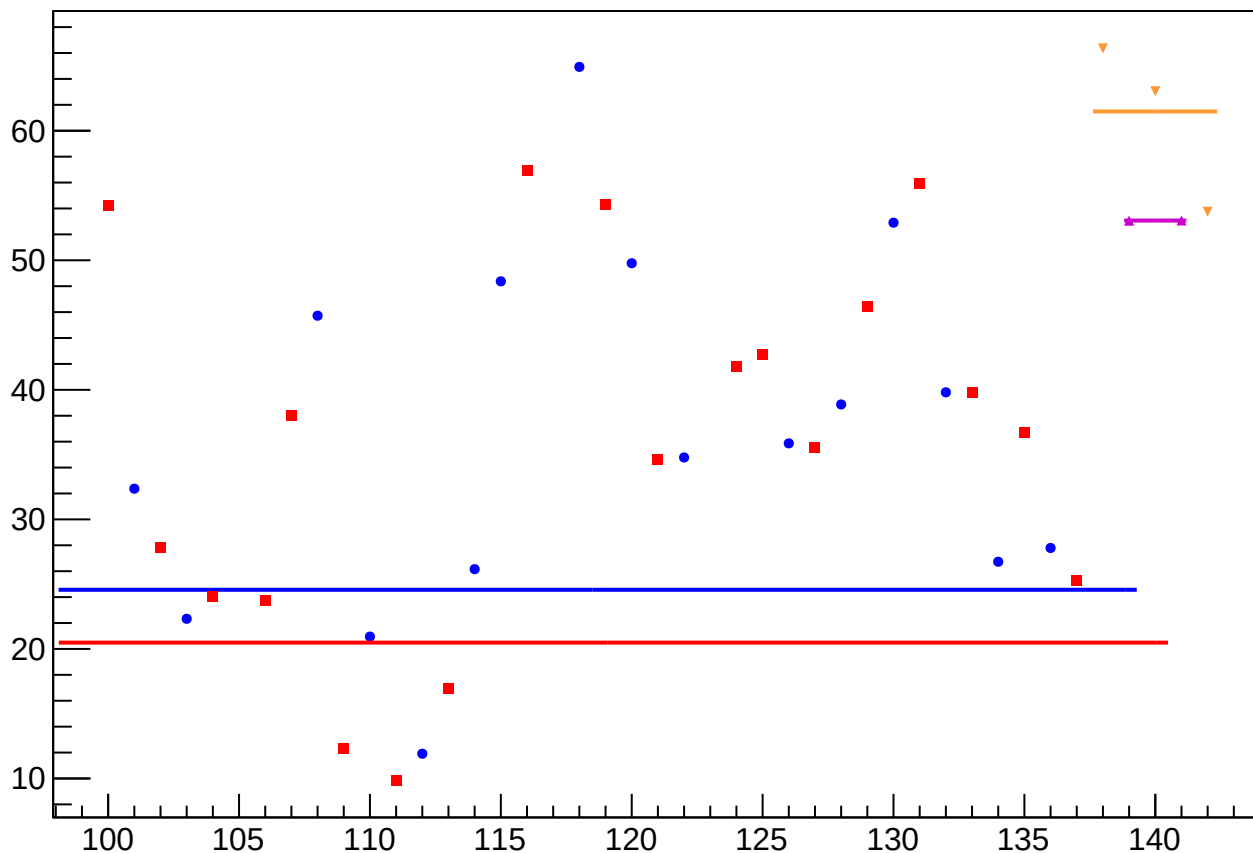
Right: 0.008 $\pm$ 0.007 χ^2 /NDF: 31.0/34

In: 0.015 $\pm$ 0.010 χ^2 /NDF:17.9/17

Out: -0.000 $\pm$ 0.009 χ^2 /NDF:15.2/21

All: 0.006 $\pm$ 0.007 χ^2 /NDF: 34.2/39

asym_sam5_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.566+/-0.007 χ^2/NDF : 2484530.5/15

Left Out: 61.487+/-0.031 χ^2/NDF : 27238.7/2

Right Out: 20.488+/-0.007 χ^2/NDF : 3583938.4/18

Left In: 53.068+/-0.029 χ^2/NDF : 0.1/1

Left: 57.007+/-0.021 χ^2/NDF : 67228.4/4

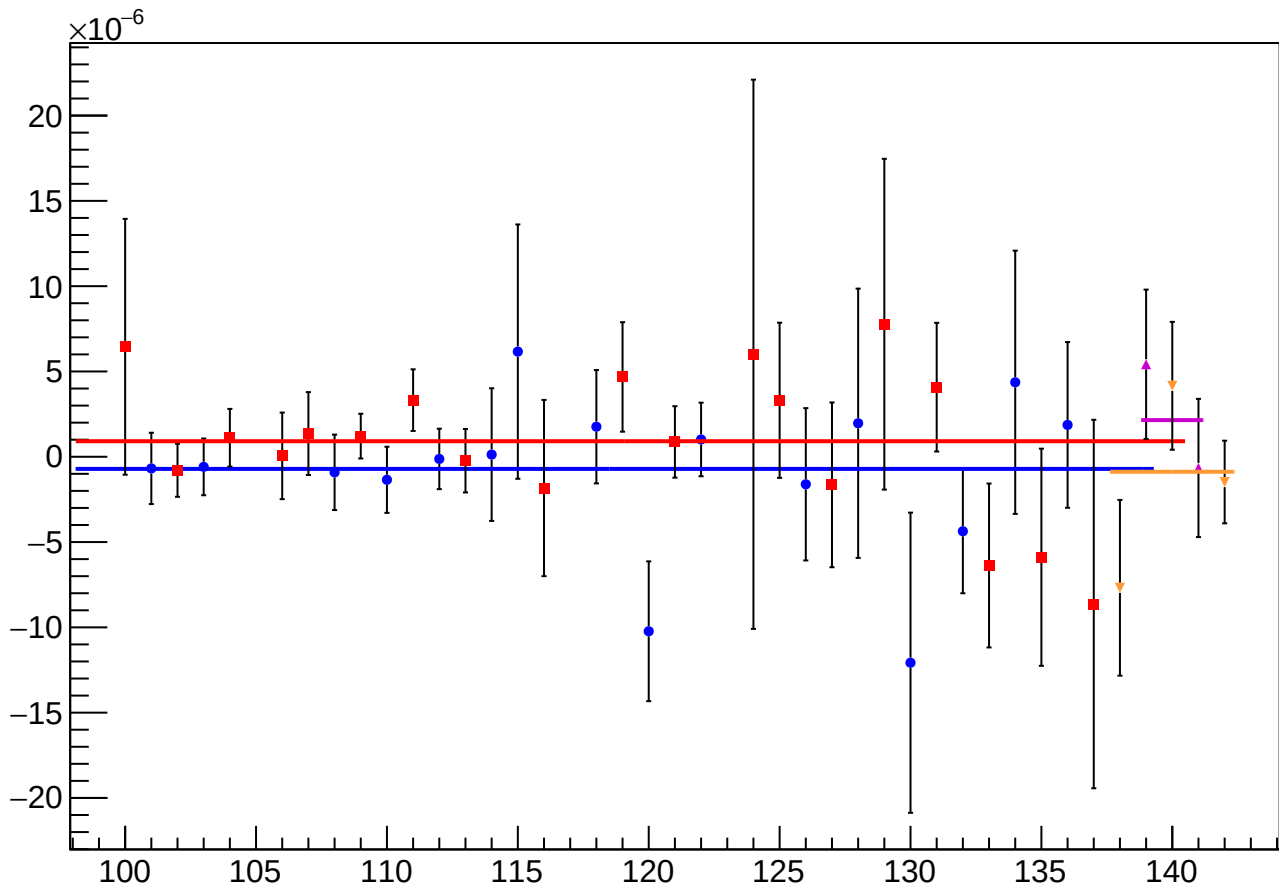
Right: 22.248+/-0.005 χ^2/NDF : 6237147.6/34

In: 26.371+/-0.007 χ^2/NDF : 3402241.3/17

Out: 22.258+/-0.006 χ^2/NDF : 5316096.9/21

All: 24.054+/-0.005 χ^2/NDF : 8899811.4/39

asym_sam5_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 11.3/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 3.6/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 11.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 1.0/1

Left: -0.000 ± 0.000 χ^2/NDF : 5.4/4

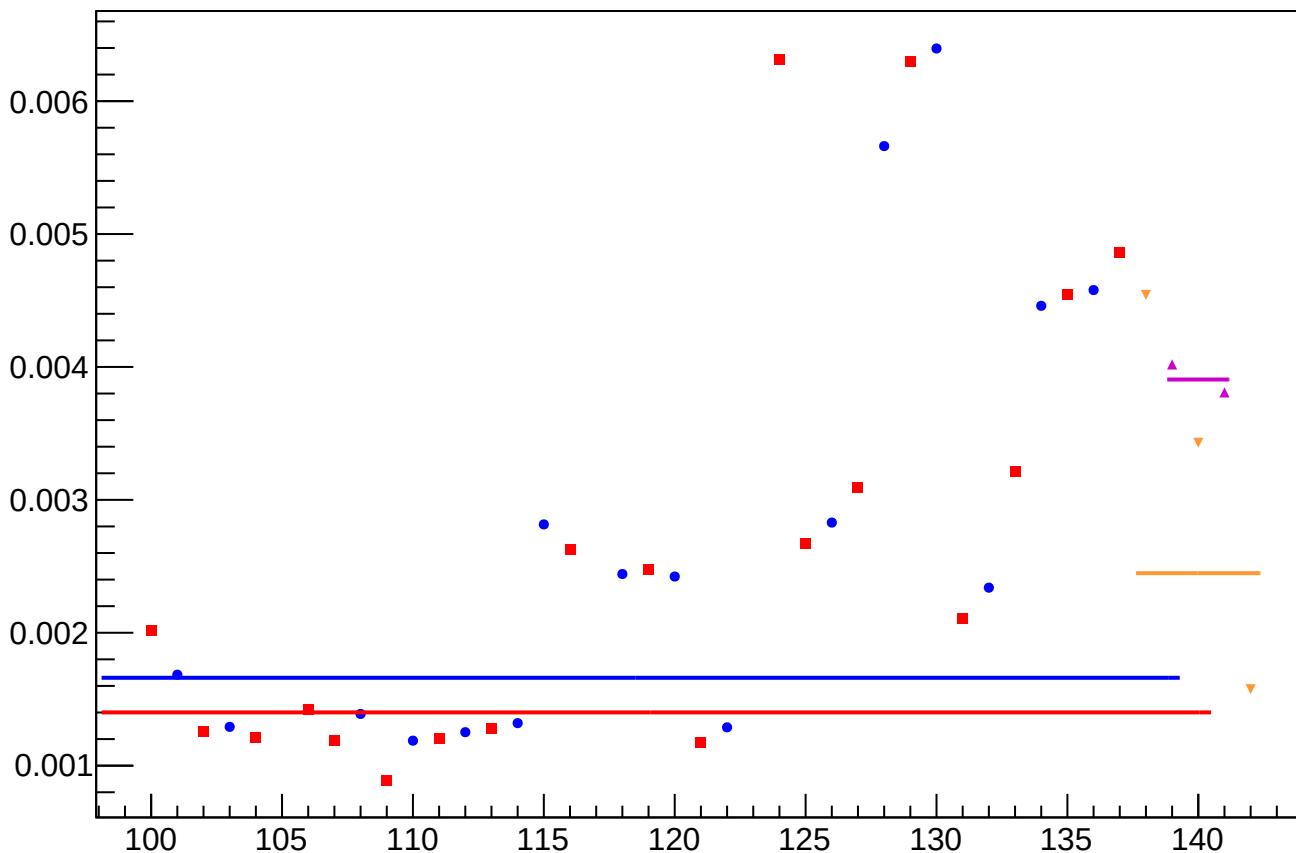
Right: 0.000 ± 0.000 χ^2/NDF : 26.3/34

In: -0.000 ± 0.000 χ^2/NDF : 13.2/17

Out: 0.000 ± 0.000 χ^2/NDF : 16.3/21

All: 0.000 ± 0.000 χ^2/NDF : 31.7/39

asym_sam5_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2942035.6/15

Left Out: 0.002+/-0.000 χ^2/NDF : 727401.1/2

Right Out: 0.001+/-0.000 χ^2/NDF : 2915624.2/18

Left In: 0.004+/-0.000 χ^2/NDF : 2495.1/1

Left: 0.003+/-0.000 χ^2/NDF : 1071761.8/4

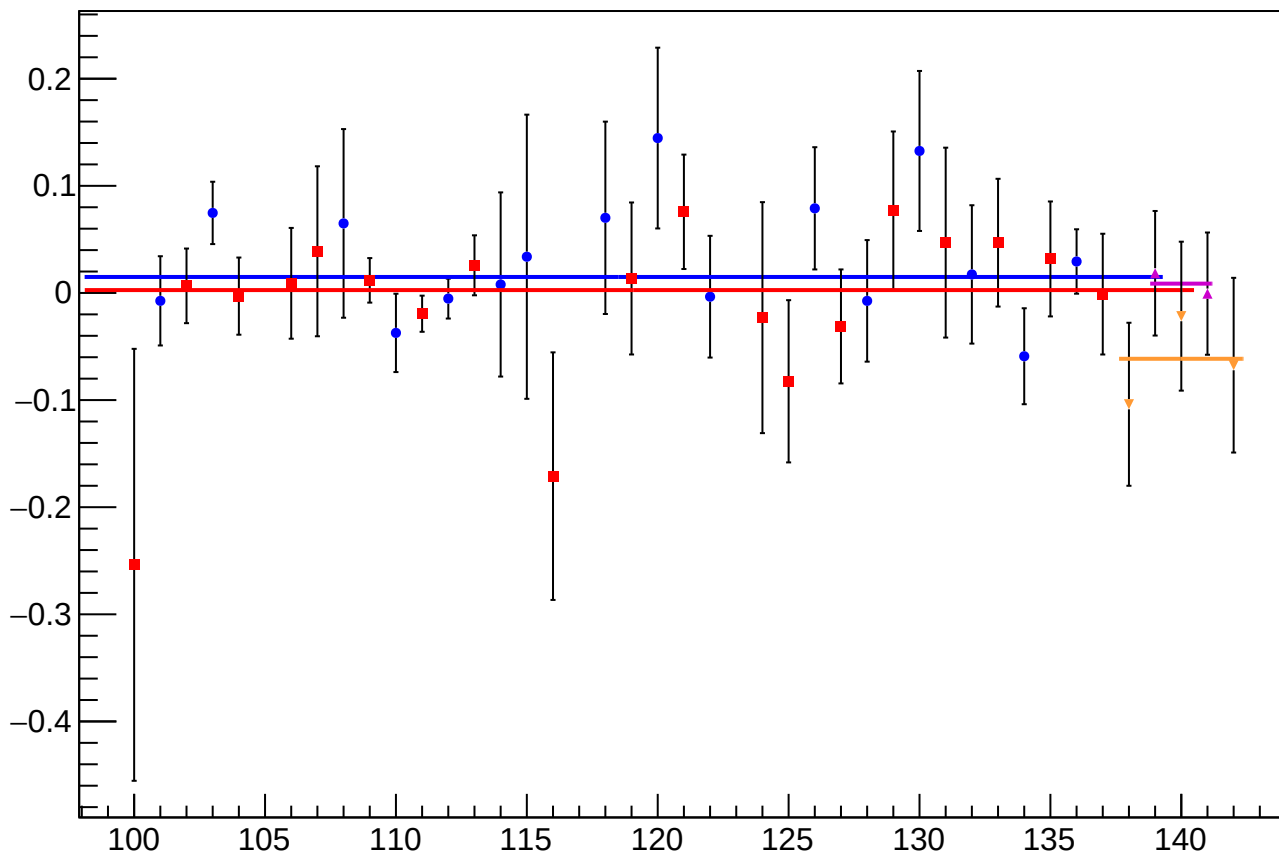
Right: 0.002+/-0.000 χ^2/NDF : 6020323.5/34

In: 0.002+/-0.000 χ^2/NDF : 4024064.4/17

Out: 0.001+/-0.000 χ^2/NDF : 4202212.1/21

All: 0.002+/-0.000 χ^2/NDF : 8436636.5/39

asym_sam5_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.011 χ^2 /NDF: 17.8/15

Left Out: -0.061 $\pm$ 0.043 χ^2 /NDF:0.6/2

Right Out: 0.003 $\pm$ 0.009 χ^2 /NDF: 12.5/18

Left In: 0.009 $\pm$ 0.041 χ^2 /NDF:0.1/1

Left: -0.024 $\pm$ 0.030 χ^2 /NDF: 2.1/4

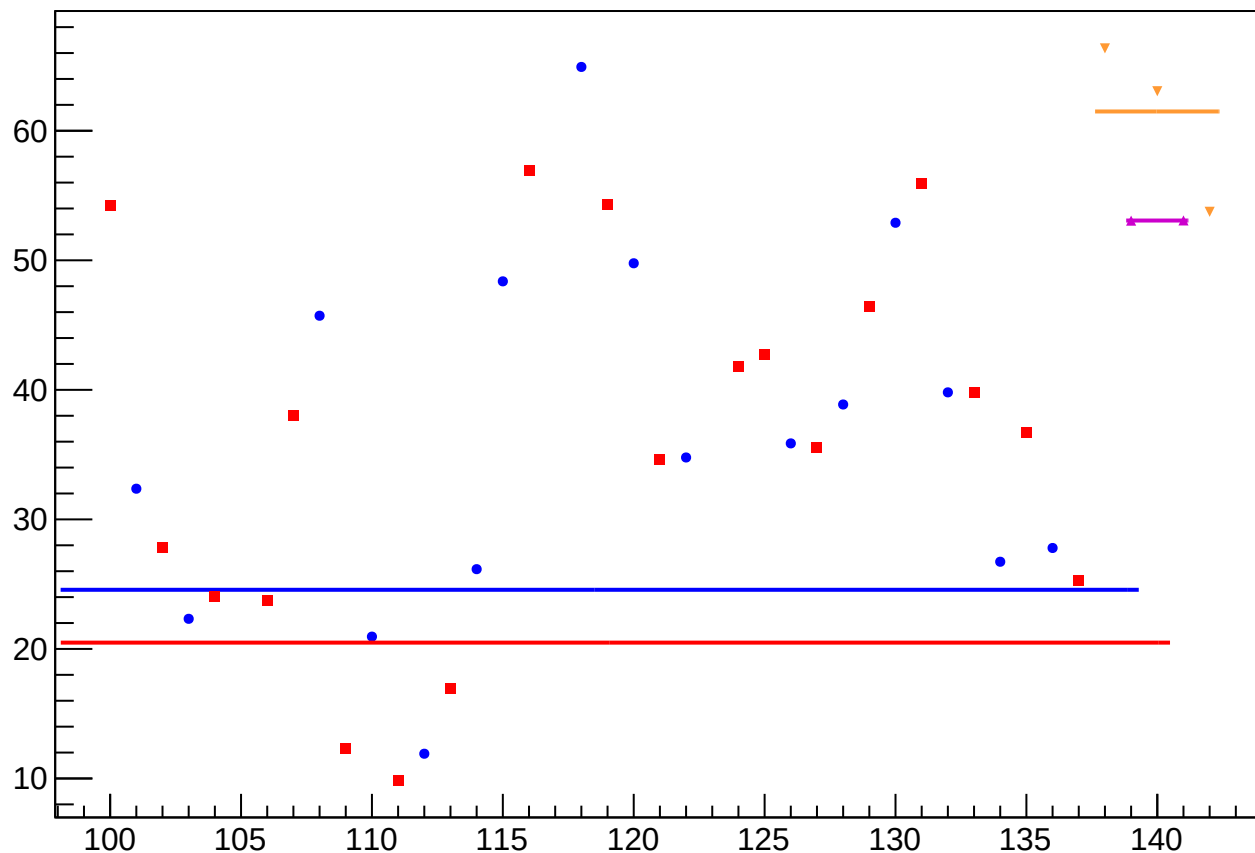
Right: 0.008 $\pm$ 0.007 χ^2 /NDF: 31.0/34

In: 0.015 $\pm$ 0.010 χ^2 /NDF:17.8/17

Out: -0.000 $\pm$ 0.009 χ^2 /NDF:15.2/21

All: 0.006 $\pm$ 0.007 χ^2 /NDF: 34.2/39

asym_sam5_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.566 $\pm$ 0.007 χ^2 /NDF: 2484434.5/15

Left Out: 61.489 $\pm$ 0.031 χ^2 /NDF:27243.6/2

Right Out: 20.487 $\pm$ 0.007 χ^2 /NDF: 3583888.1/18

Left In: 53.070 $\pm$ 0.029 χ^2 /NDF:0.1/1

Left: 57.009 $\pm$ 0.021 χ^2 /NDF: 67226.6/4

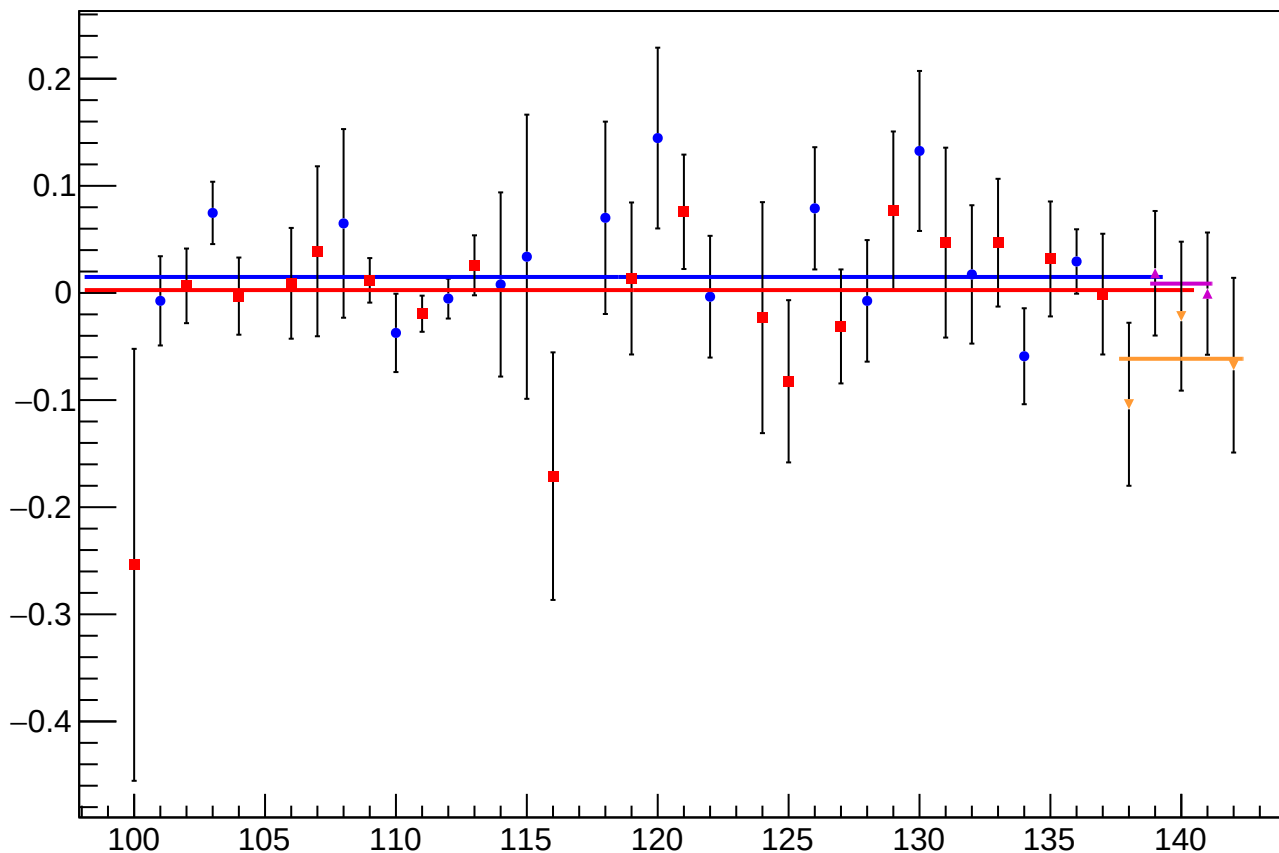
Right: 22.247 $\pm$ 0.005 χ^2 /NDF: 6237010.7/34

In: 26.370 $\pm$ 0.007 χ^2 /NDF:3402256.4/17

Out: 22.257 $\pm$ 0.006 χ^2 /NDF:5316159.0/21

All: 24.054 $\pm$ 0.005 χ^2 /NDF: 8899900.7/39

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.011 χ^2 /NDF: 17.8/15

Left Out: -0.061 $\pm$ 0.043 χ^2 /NDF:0.6/2

Right Out: 0.003 $\pm$ 0.009 χ^2 /NDF: 12.5/18

Left In: 0.009 $\pm$ 0.041 χ^2 /NDF:0.1/1

Left: -0.024 $\pm$ 0.030 χ^2 /NDF: 2.1/4

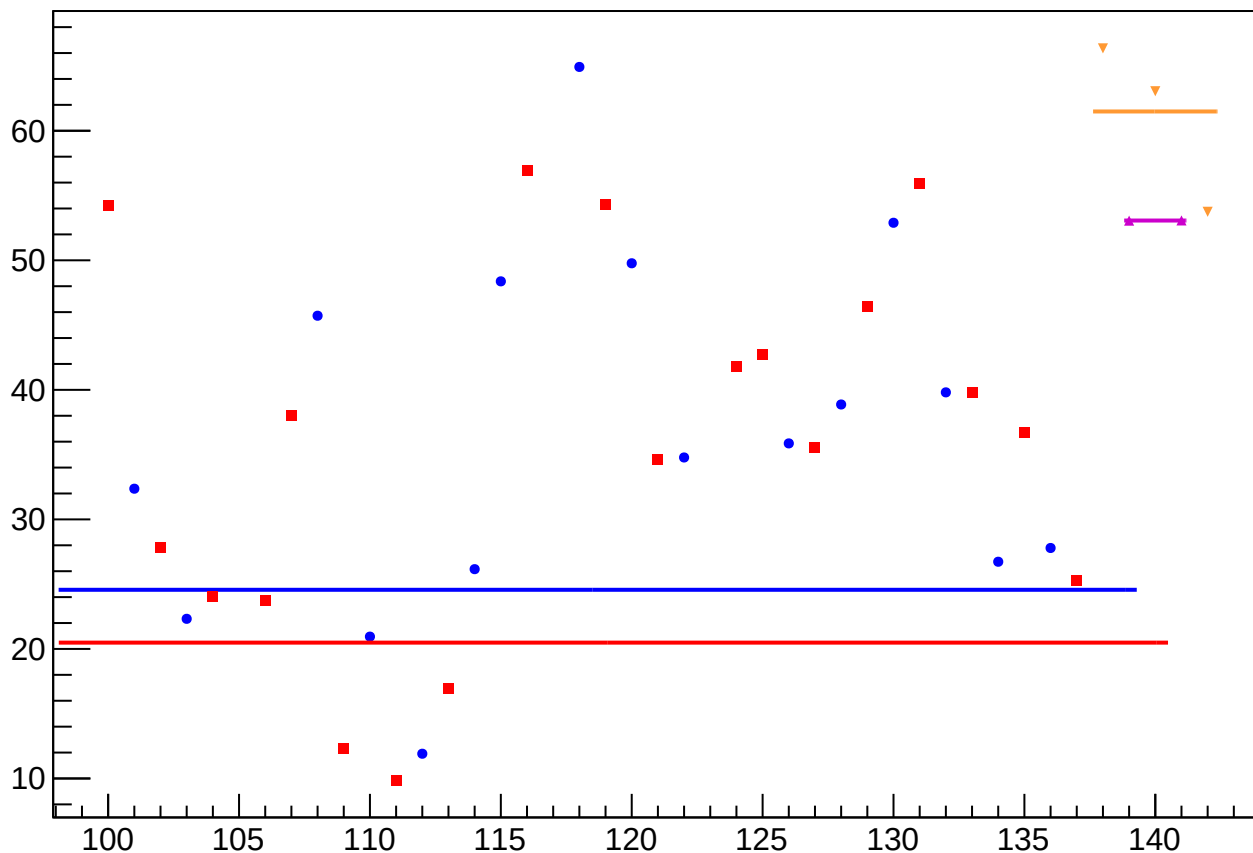
Right: 0.008 $\pm$ 0.007 χ^2 /NDF: 31.0/34

In: 0.015 $\pm$ 0.010 χ^2 /NDF:17.8/17

Out: -0.000 $\pm$ 0.009 χ^2 /NDF:15.2/21

All: 0.006 $\pm$ 0.007 χ^2 /NDF: 34.2/39

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.566 $\pm$ 0.007 χ^2 /NDF: 2484434.5/15

Left Out: 61.489 $\pm$ 0.031 χ^2 /NDF:27243.6/2

Right Out: 20.487 $\pm$ 0.007 χ^2 /NDF: 3583888.1/18

Left In: 53.070 $\pm$ 0.029 χ^2 /NDF:0.1/1

Left: 57.009 $\pm$ 0.021 χ^2 /NDF: 67226.6/4

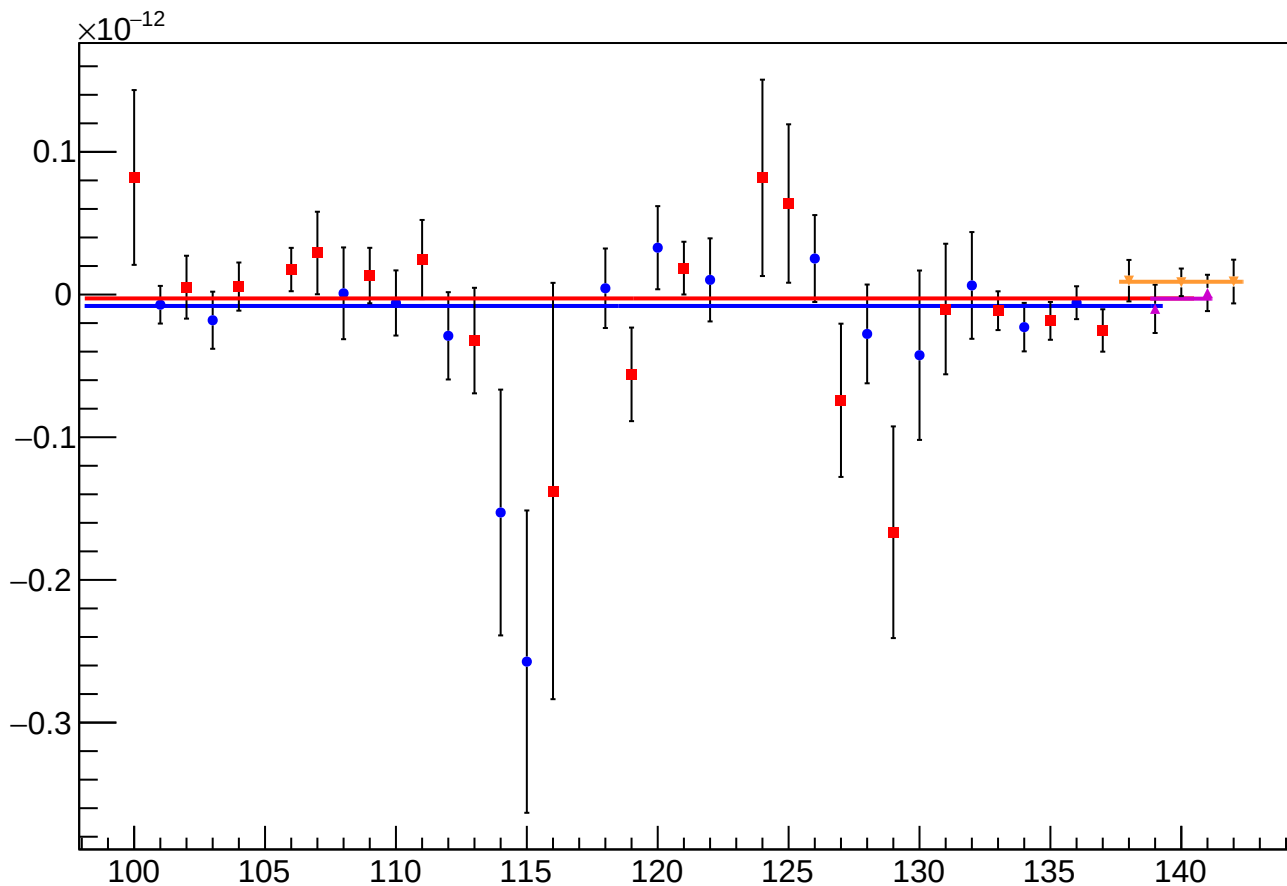
Right: 22.247 $\pm$ 0.005 χ^2 /NDF: 6237010.7/34

In: 26.370 $\pm$ 0.007 χ^2 /NDF:3402256.4/17

Out: 22.257 $\pm$ 0.006 χ^2 /NDF:5316159.0/21

All: 24.054 $\pm$ 0.005 χ^2 /NDF: 8899900.7/39

asym_sam5_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 14.5/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.0/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 26.1/18

Left In: -0.000 ± 0.000 χ^2/NDF : 0.3/1

Left: 0.000 ± 0.000 χ^2/NDF : 1.2/4

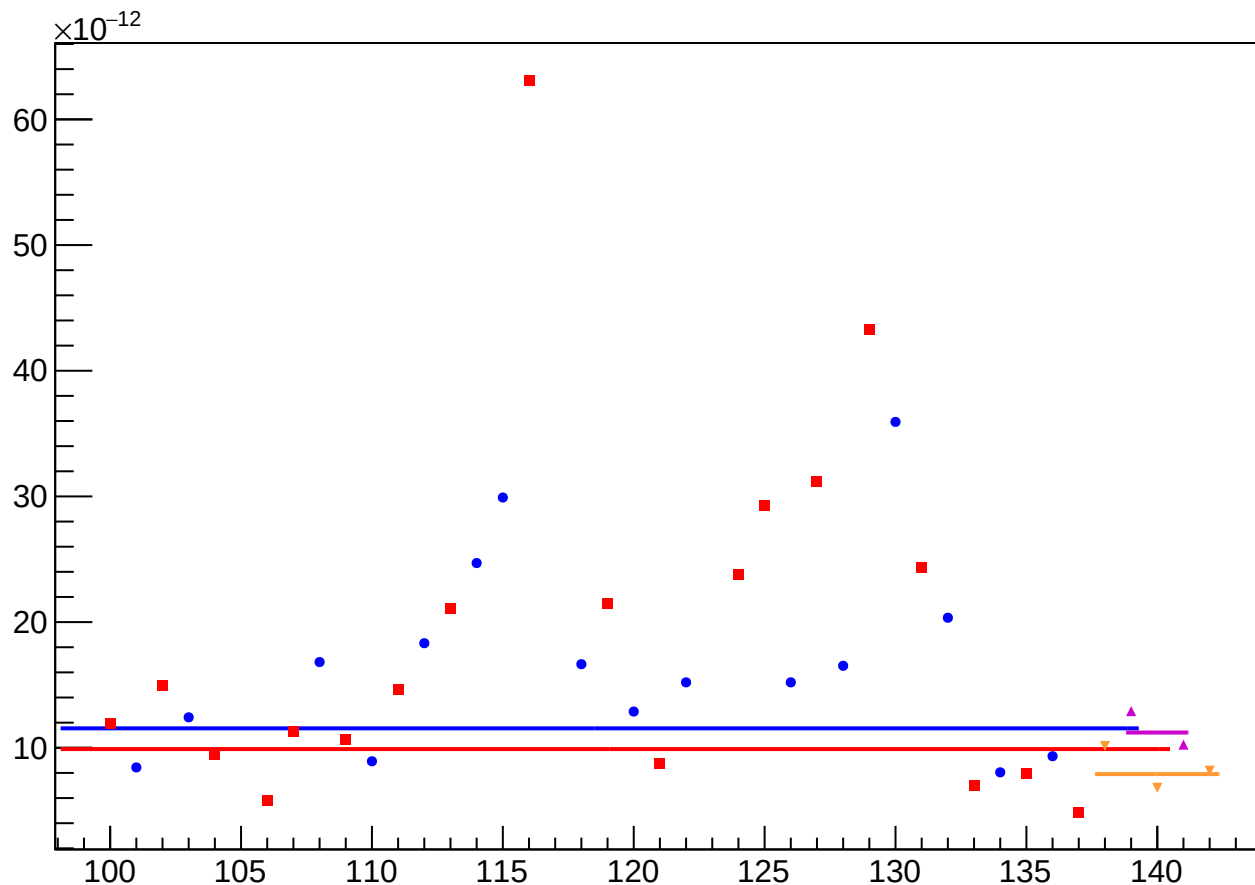
Right: -0.000 ± 0.000 χ^2/NDF : 41.1/34

In: -0.000 ± 0.000 χ^2/NDF : 15.0/17

Out: 0.000 ± 0.000 χ^2/NDF : 27.9/21

All: -0.000 ± 0.000 χ^2/NDF : 44.4/39

asym_sam5_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1179957.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 73479.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2635766.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 31663.8/1

Left: 0.000+/-0.000 χ^2/NDF : 247050.4/4

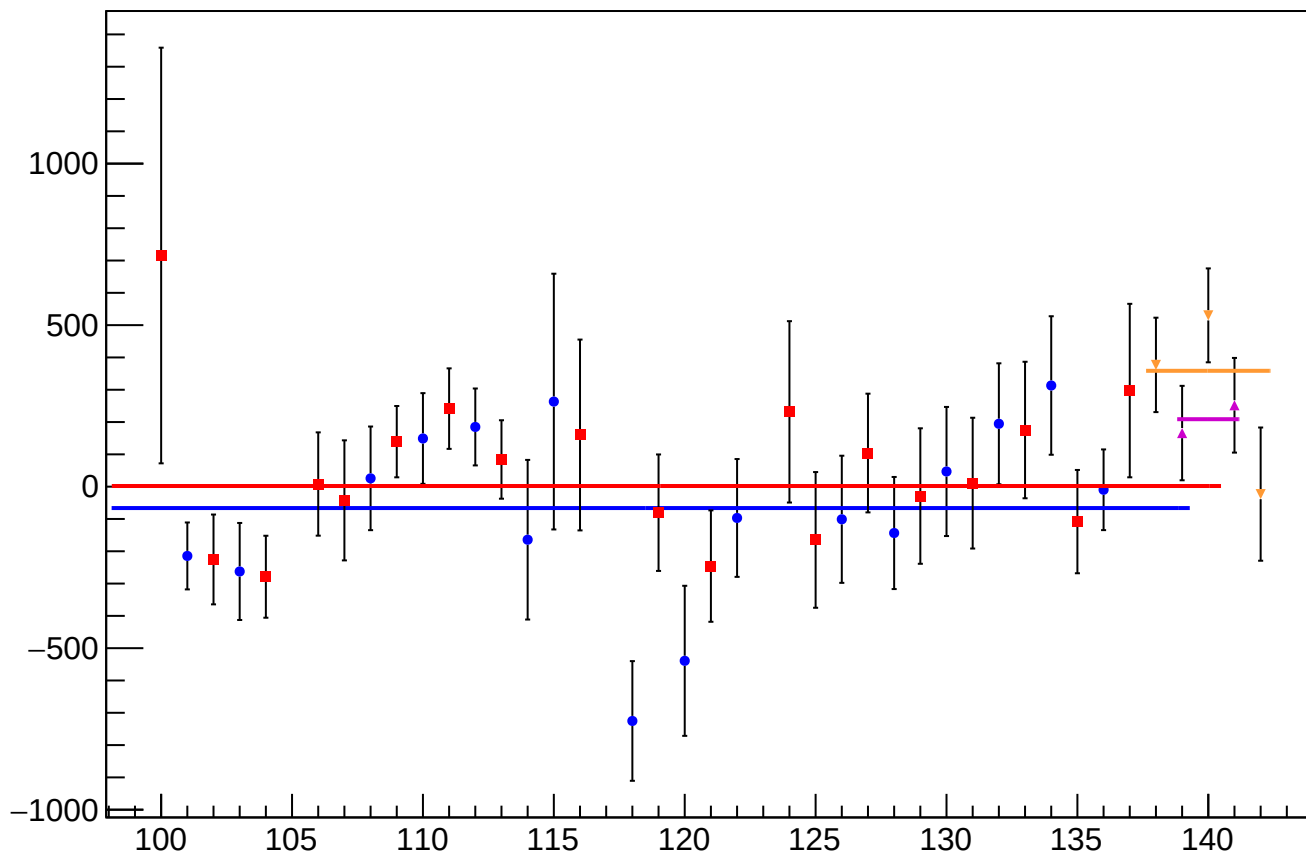
Right: 0.000+/-0.000 χ^2/NDF : 3905918.0/34

In: 0.000+/-0.000 χ^2/NDF : 1213243.9/17

Out: 0.000+/-0.000 χ^2/NDF : 2811470.8/21

All: 0.000+/-0.000 χ^2/NDF : 4262979.2/39

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -66.230 ± 40.937 $\chi^2/\text{NDF}: 34.4/15$

Left Out: 358.648 ± 92.185 $\chi^2/\text{NDF}: 4.8/2$

Right Out: 2.017 ± 38.866 $\chi^2/\text{NDF}: 21.1/18$

Left In: 208.827 ± 103.488 $\chi^2/\text{NDF}: 0.2/1$

Left: 292.363 ± 68.835 $\chi^2/\text{NDF}: 6.2/4$

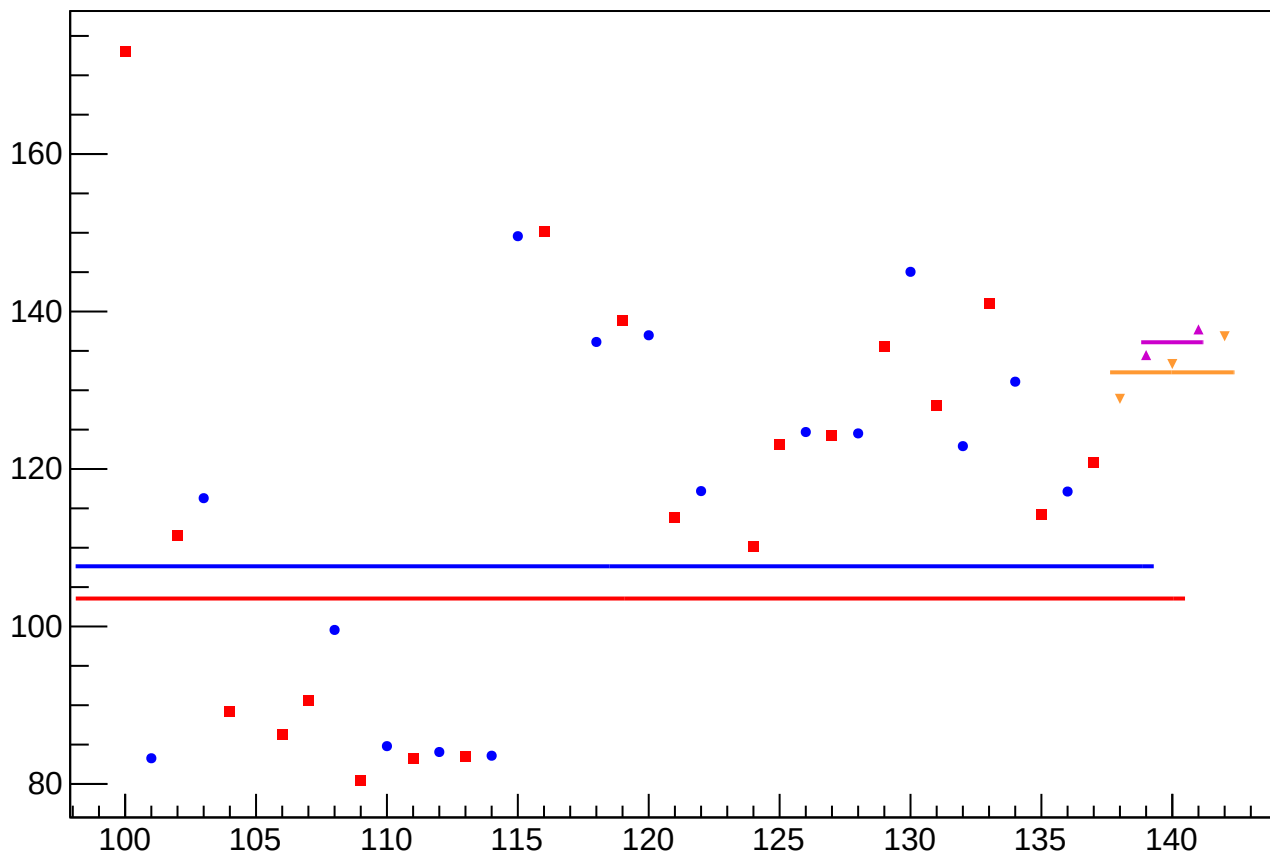
Right: -30.337 ± 28.186 $\chi^2/\text{NDF}: 57.0/34$

In: -29.013 ± 38.067 $\chi^2/\text{NDF}: 40.7/17$

Out: 55.843 ± 35.813 $\chi^2/\text{NDF}: 38.7/21$

All: 16.001 ± 26.084 $\chi^2/\text{NDF}: 82.0/39$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 107.644 $\pm$ 0.029 χ^2 /NDF: 532821.7/15

Left Out: 132.275 $\pm$ 0.065 χ^2 /NDF:2152.6/2

Right Out: 103.550 $\pm$ 0.027 χ^2 /NDF: 617345.0/18

Left In: 136.096 $\pm$ 0.073 χ^2 /NDF:496.2/1

Left: 133.966 $\pm$ 0.049 χ^2 /NDF: 4168.4/4

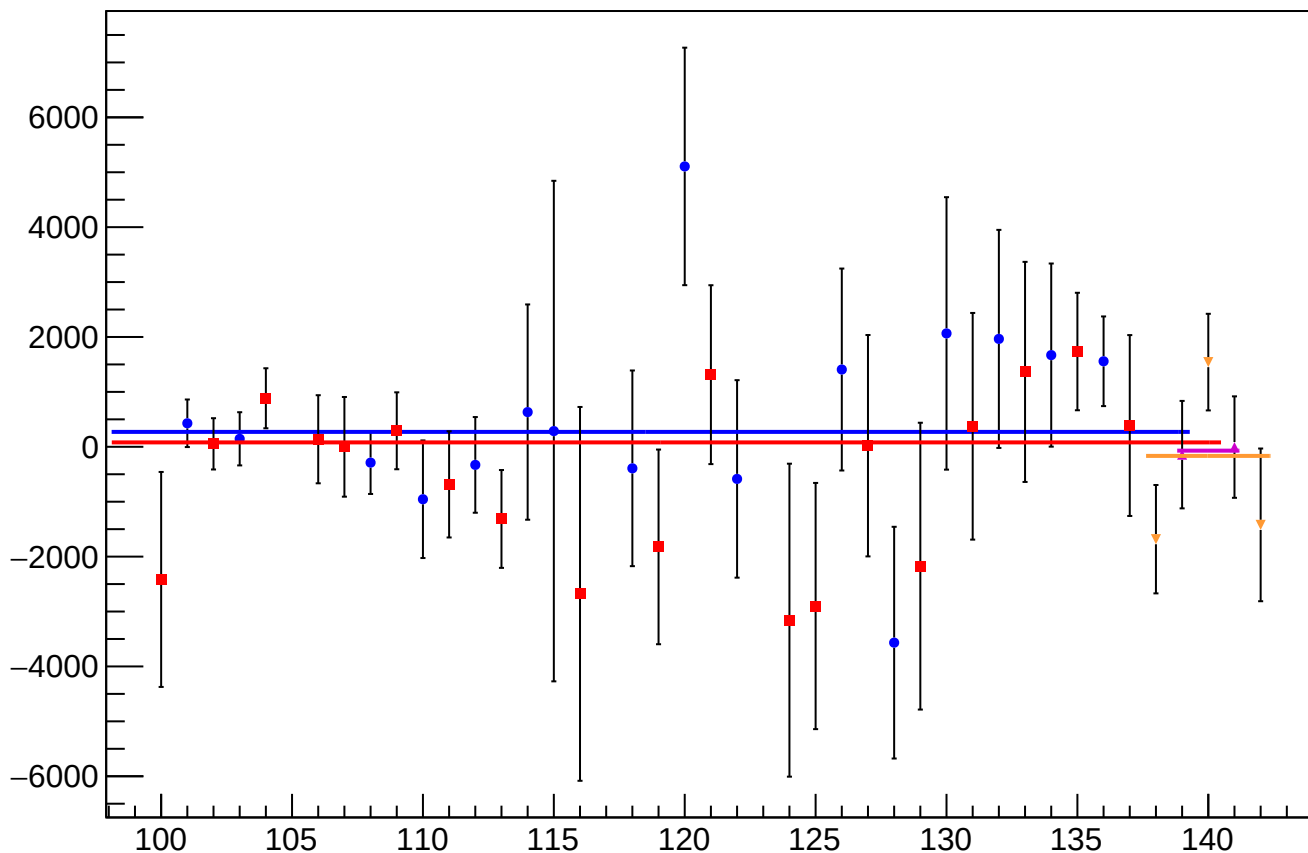
Right: 105.491 $\pm$ 0.020 χ^2 /NDF: 1160688.9/34

In: 111.494 $\pm$ 0.027 χ^2 /NDF:664032.9/17

Out: 107.885 $\pm$ 0.025 χ^2 /NDF:784388.3/21

All: 109.580 $\pm$ 0.018 χ^2 /NDF: 1457954.8/39

asym_sam6_reg_correction_mean vs Slug, Sign Corrected



Right In: 271.505+/-230.663 χ^2/NDF : 16.5/15

Left Out: -165.753+/-593.849 χ^2/NDF : 6.9/2

Right Out: 80.094+/-232.154 χ^2/NDF : 16.0/18

Left In: -70.076+/-671.776 χ^2/NDF : 0.0/1

Left: -123.783+/-444.927 χ^2/NDF : 7.0/4

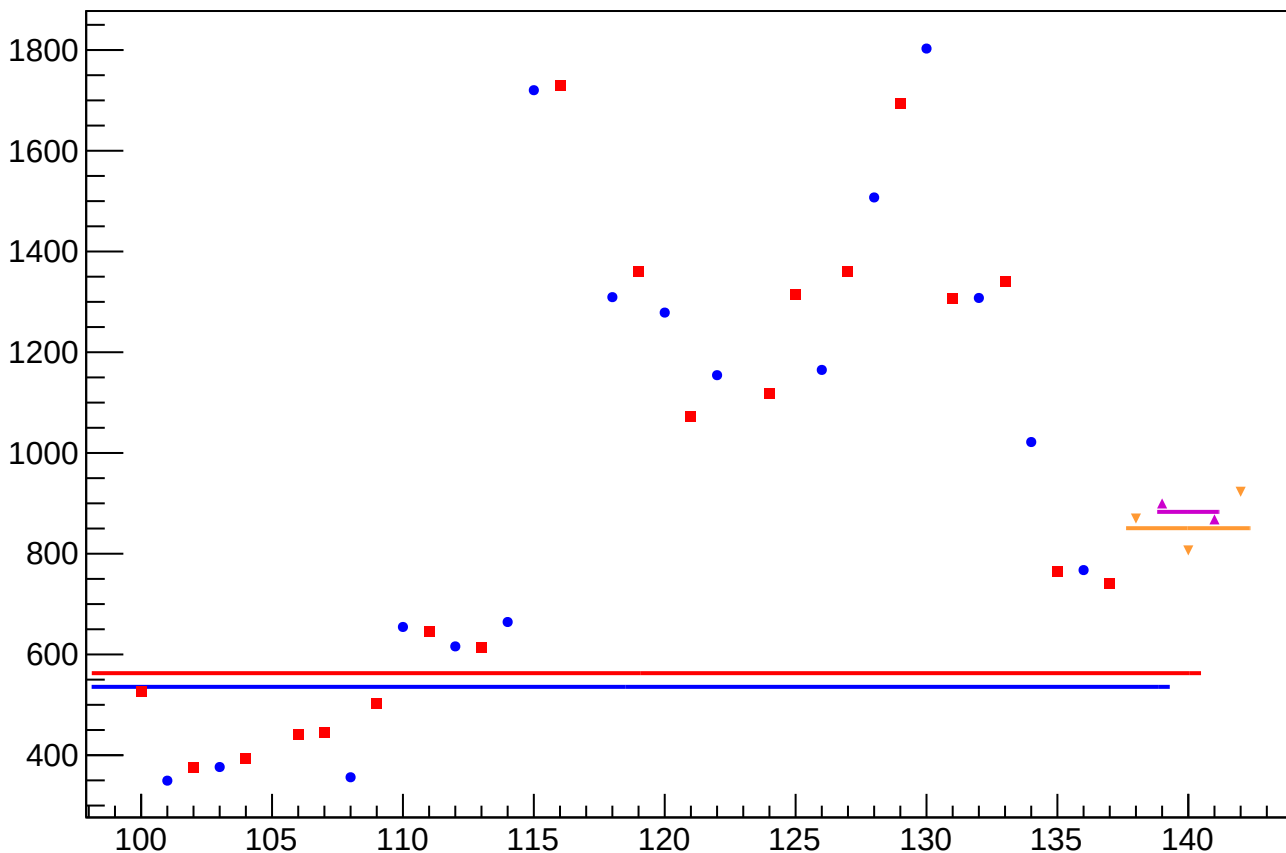
Right: 176.417+/-163.628 χ^2/NDF : 32.8/34

In: 235.480+/-218.160 χ^2/NDF : 16.7/17

Out: 47.503+/-216.219 χ^2/NDF : 23.1/21

All: 140.652+/-153.572 χ^2/NDF : 40.2/39

asym_sam6_reg_correction_rms vs Slug, Sign Corrected



Right In: 535.683+/-0.163 χ^2/NDF : 3632390.5/15

Left Out: 850.661+/-0.420 χ^2/NDF : 11202.0/2

Right Out: 562.845+/-0.164 χ^2/NDF : 3111031.5/18

Left In: 883.069+/-0.475 χ^2/NDF : 1105.9/1

Left: 864.877+/-0.315 χ^2/NDF : 14920.8/4

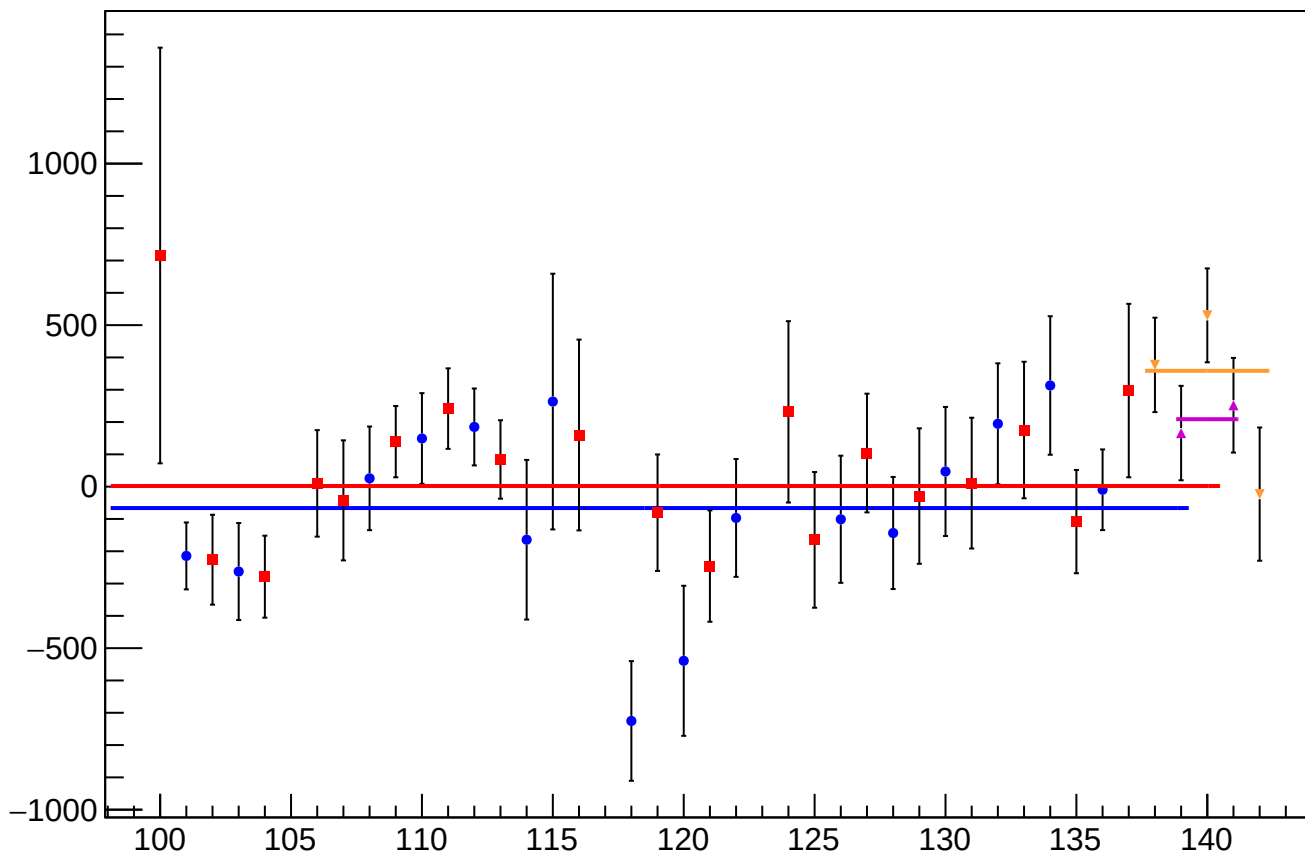
Right: 549.176+/-0.116 χ^2/NDF : 6757198.8/34

In: 572.320+/-0.154 χ^2/NDF : 4111909.7/17

Out: 601.000+/-0.153 χ^2/NDF : 3529748.8/21

All: 586.788+/-0.109 χ^2/NDF : 7659095.5/39

cor_asym_sam6_mean vs Slug, Sign Corrected



Right In: -66.256 ± 40.937 $\chi^2/\text{NDF}: 34.4/15$

Left Out: 358.642 ± 92.185 $\chi^2/\text{NDF}: 4.8/2$

Right Out: 2.062 ± 38.937 $\chi^2/\text{NDF}: 21.1/18$

Left In: 208.828 ± 103.488 $\chi^2/\text{NDF}: 0.2/1$

Left: 292.360 ± 68.835 $\chi^2/\text{NDF}: 6.2/4$

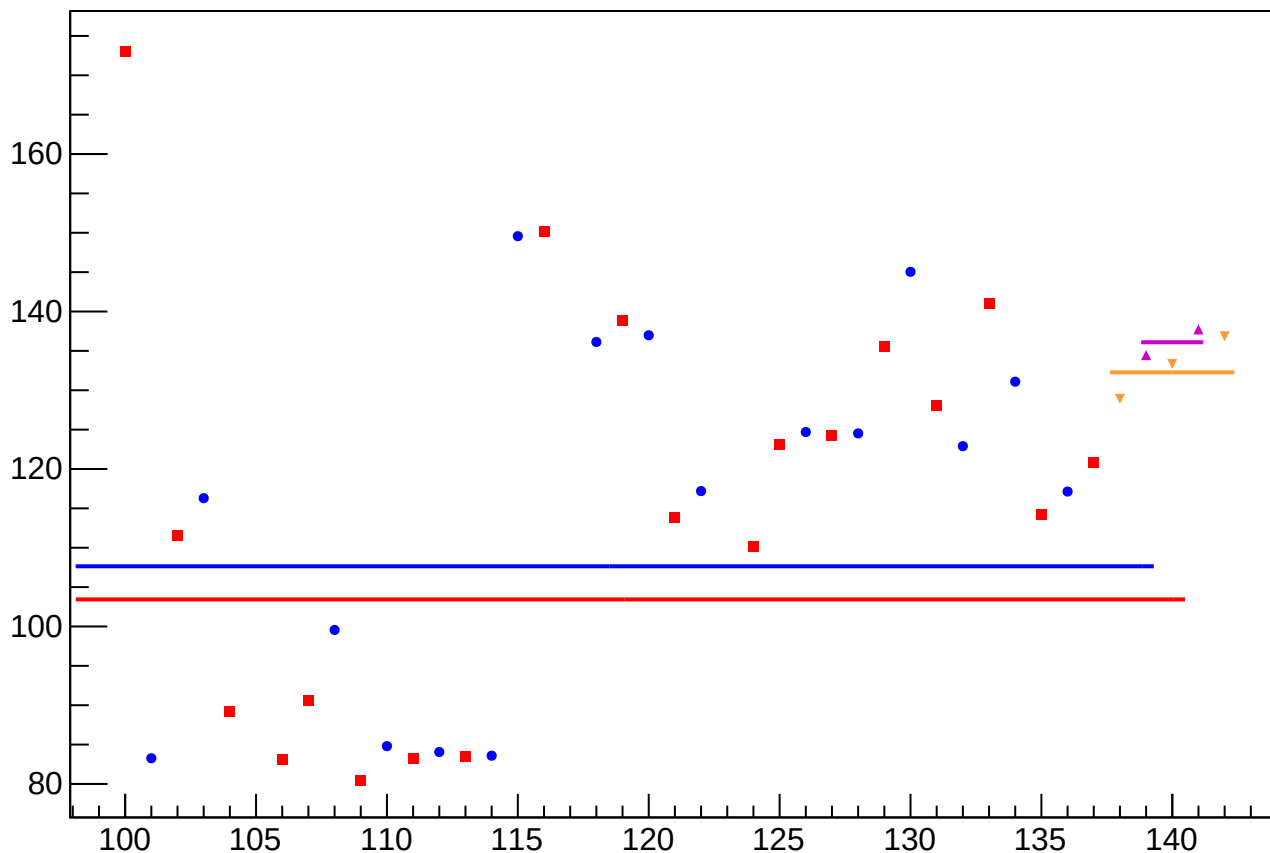
Right: -30.387 ± 28.213 $\chi^2/\text{NDF}: 57.0/34$

In: -29.035 ± 38.067 $\chi^2/\text{NDF}: 40.7/17$

Out: 56.046 ± 35.868 $\chi^2/\text{NDF}: 38.7/21$

All: 16.033 ± 26.105 $\chi^2/\text{NDF}: 82.0/39$

cor_asym_sam6_rms vs Slug, Sign Corrected



Right In: 107.644 $\pm$ 0.029 χ^2 /NDF: 532822.8/15

Left Out: 132.275 $\pm$ 0.065 χ^2 /NDF:2152.6/2

Right Out: 103.438 $\pm$ 0.028 χ^2 /NDF: 624750.2/18

Left In: 136.096 $\pm$ 0.073 χ^2 /NDF:496.2/1

Left: 133.966 $\pm$ 0.049 χ^2 /NDF: 4168.4/4

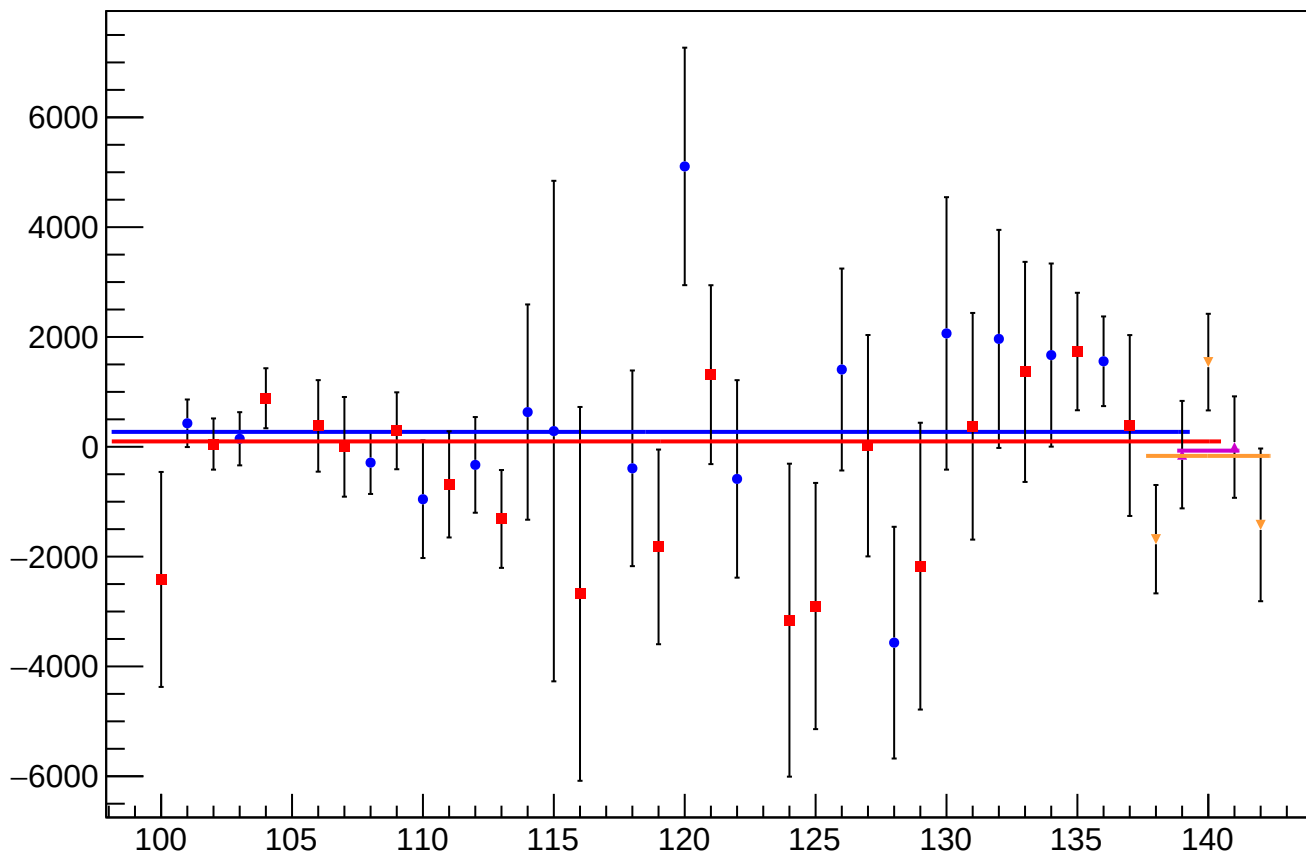
Right: 105.436 $\pm$ 0.020 χ^2 /NDF: 1168660.2/34

In: 111.494 $\pm$ 0.027 χ^2 /NDF:664033.5/17

Out: 107.803 $\pm$ 0.025 χ^2 /NDF:792991.8/21

All: 109.539 $\pm$ 0.018 χ^2 /NDF: 1466981.9/39

asym_sam6_cor_correction_mean vs Slug, Sign Corrected



Right In: 271.645+/-230.655 χ^2/NDF : 16.5/15

Left Out: -165.735+/-593.849 χ^2/NDF : 6.9/2

Right Out: 97.847+/-232.781 χ^2/NDF : 16.1/18

Left In: -70.098+/-671.776 χ^2/NDF : 0.0/1

Left: -123.783+/-444.927 χ^2/NDF : 7.0/4

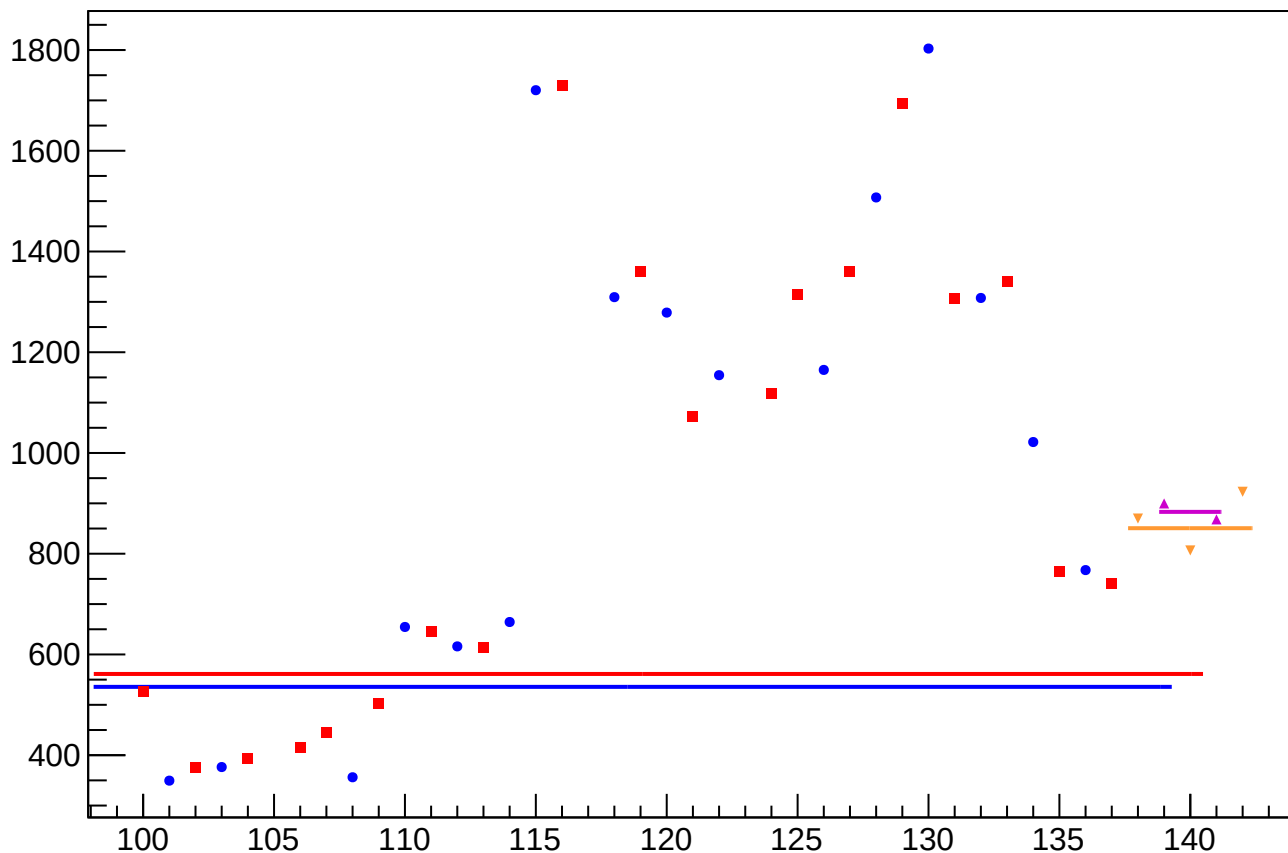
Right: 185.543+/-163.844 χ^2/NDF : 32.9/34

In: 235.606+/-218.154 χ^2/NDF : 16.7/17

Out: 62.740+/-216.725 χ^2/NDF : 23.3/21

All: 148.605+/-153.751 χ^2/NDF : 40.3/39

asym_sam6_cor_correction_rms vs Slug, Sign Corrected



Right In: 535.661+/-0.163 χ^2/NDF : 3632591.0/15

Left Out: 850.661+/-0.420 χ^2/NDF : 11202.2/2

Right Out: 561.270+/-0.165 χ^2/NDF : 3130760.7/18

Left In: 883.069+/-0.475 χ^2/NDF : 1106.0/1

Left: 864.877+/-0.315 χ^2/NDF : 14921.0/4

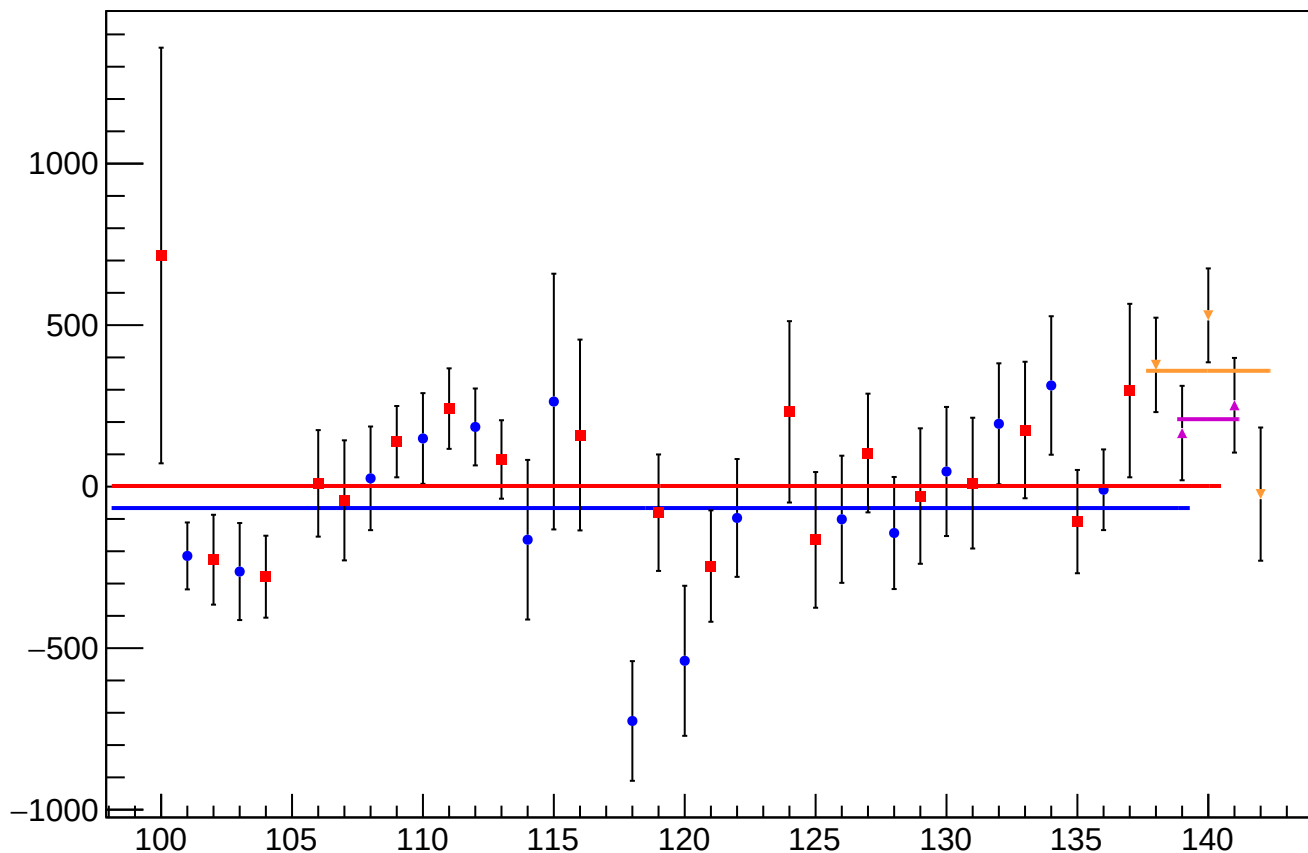
Right: 548.348+/-0.116 χ^2/NDF : 6775564.7/34

In: 572.298+/-0.154 χ^2/NDF : 4112173.3/17

Out: 599.813+/-0.153 χ^2/NDF : 3553655.6/21

All: 586.146+/-0.109 χ^2/NDF : 7681841.2/39

eigen_cor_asym_sam6_mean vs Slug, Sign Corrected



Right In: -66.256 $\pm$ 40.937 χ^2 /NDF: 34.4/15

Left Out: 358.642 $\pm$ 92.185 χ^2 /NDF:4.8/2

Right Out: 2.062 $\pm$ 38.937 χ^2 /NDF: 21.1/18

Left In: 208.828 $\pm$ 103.488 χ^2 /NDF:0.2/1

Left: 292.360 $\pm$ 68.835 χ^2 /NDF: 6.2/4

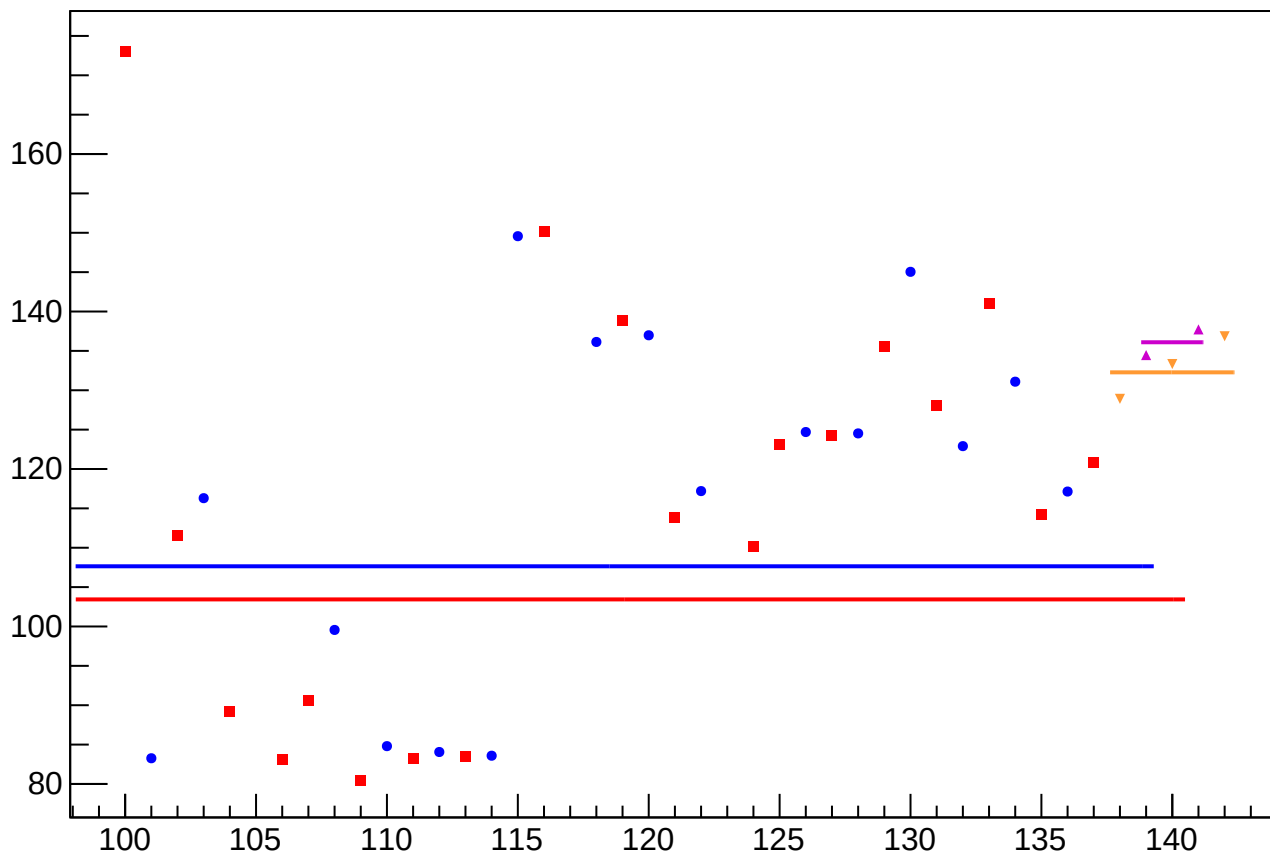
Right: -30.387 $\pm$ 28.213 χ^2 /NDF: 57.0/34

In: -29.035 $\pm$ 38.067 χ^2 /NDF:40.7/17

Out: 56.046 $\pm$ 35.868 χ^2 /NDF:38.7/21

All: 16.033 $\pm$ 26.105 χ^2 /NDF: 82.0/39

eigen_cor_asym_sam6_rms vs Slug, Sign Corrected



Right In: 107.644 $\pm$ 0.029 χ^2/NDF : 532822.8/15

Left Out: 132.275 $\pm$ 0.065 χ^2/NDF : 2152.6/2

Right Out: 103.438 $\pm$ 0.028 χ^2/NDF : 624750.2/18

Left In: 136.096 $\pm$ 0.073 χ^2/NDF : 496.2/1

Left: 133.966 $\pm$ 0.049 χ^2/NDF : 4168.4/4

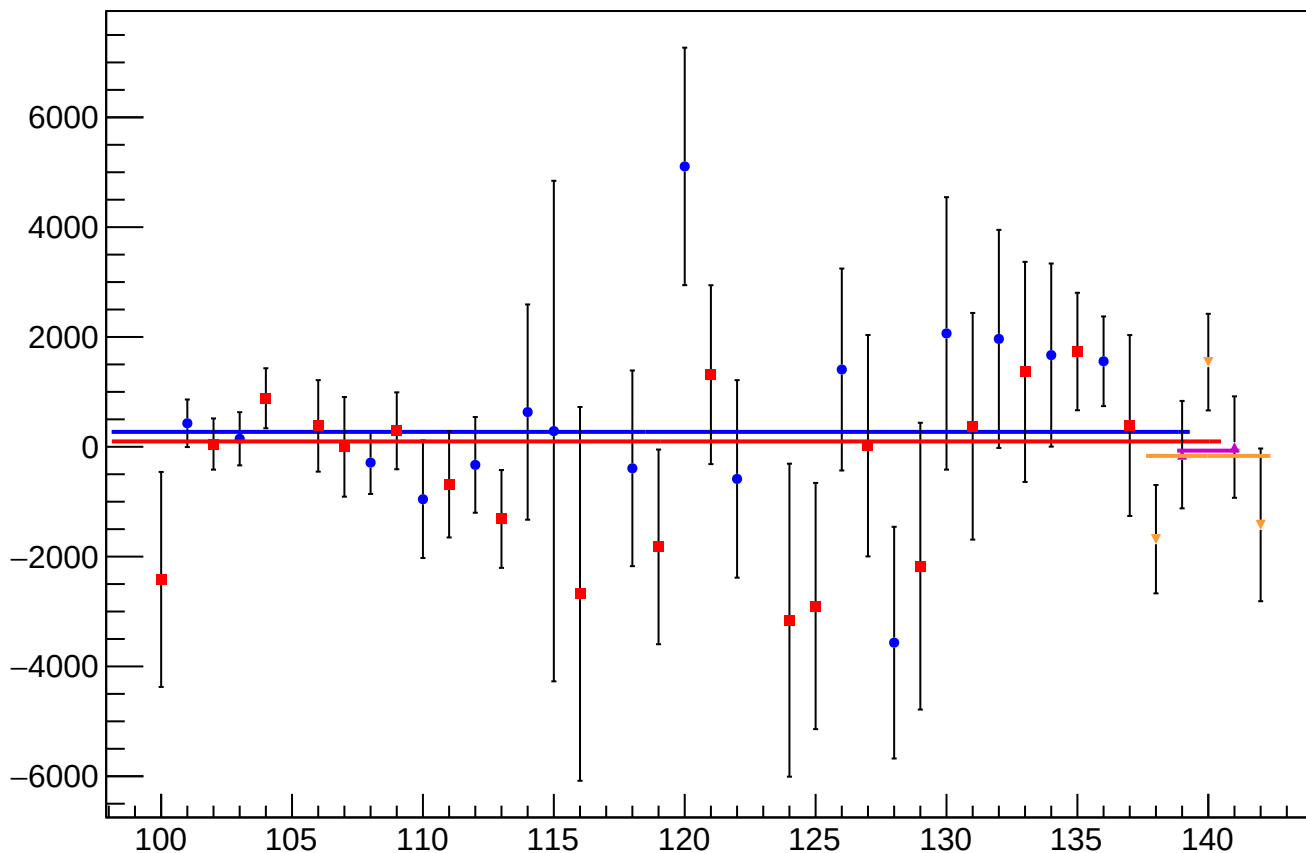
Right: 105.436 $\pm$ 0.020 χ^2/NDF : 1168660.2/34

In: 111.494 $\pm$ 0.027 χ^2/NDF : 664033.5/17

Out: 107.803 $\pm$ 0.025 χ^2/NDF : 792991.8/21

All: 109.539 $\pm$ 0.018 χ^2/NDF : 1466981.9/39

asym_sam6_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 271.645+/-230.655 χ^2/NDF : 16.5/15

Left Out: -165.735+/-593.849 χ^2/NDF :6.9/2

Right Out: 97.847+/-232.781 χ^2/NDF : 16.1/18

Left In: -70.098+/-671.776 χ^2/NDF :0.0/1

Left: -123.783+/-444.927 χ^2/NDF : 7.0/4

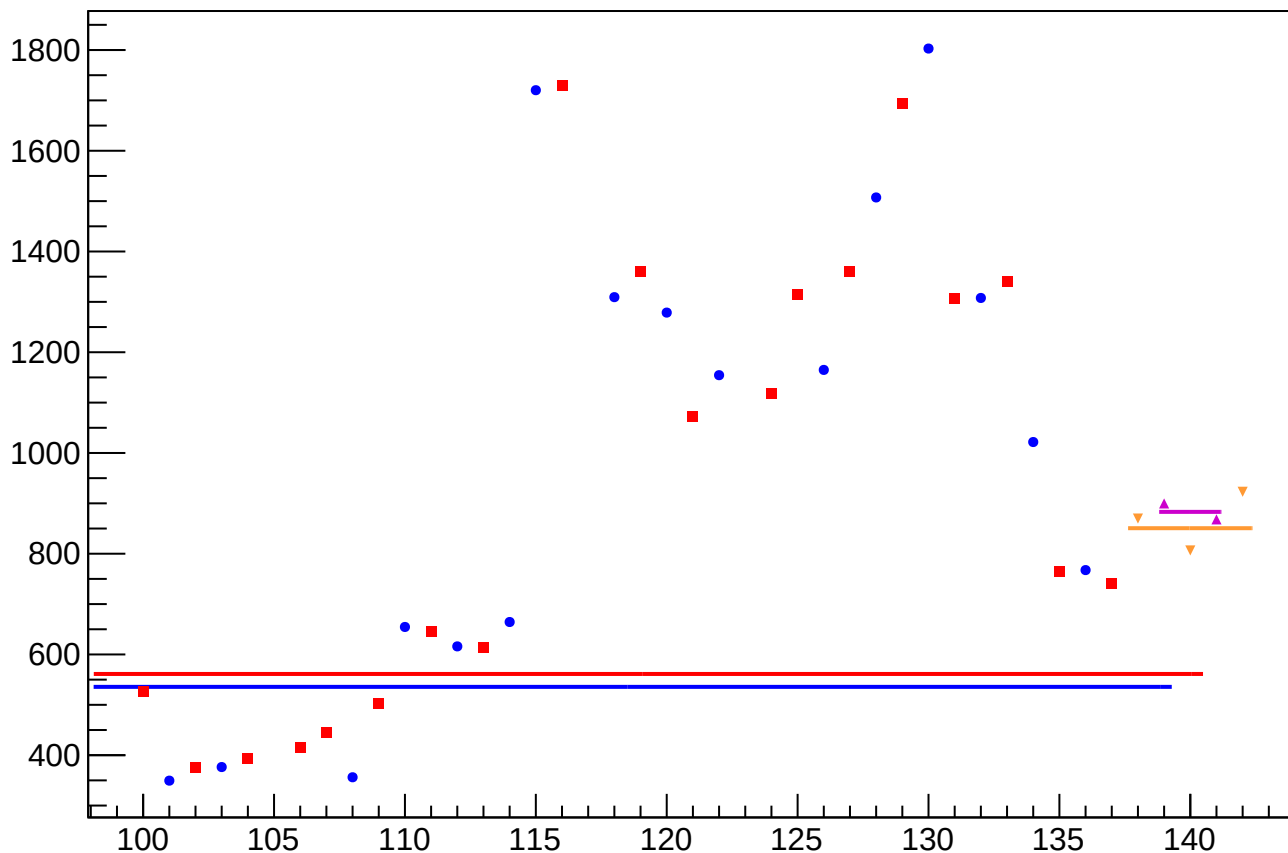
Right: 185.543+/-163.844 χ^2/NDF : 32.9/34

In: 235.606+/-218.154 χ^2/NDF :16.7/17

Out: 62.740+/-216.725 χ^2/NDF :23.3/21

All: 148.605+/-153.751 χ^2/NDF : 40.3/39

asym_sam6_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 535.661+/-0.163 χ^2/NDF : 3632591.0/15

Left Out: 850.661+/-0.420 χ^2/NDF : 11202.2/2

Right Out: 561.270+/-0.165 χ^2/NDF : 3130760.7/18

Left In: 883.069+/-0.475 χ^2/NDF : 1106.0/1

Left: 864.877+/-0.315 χ^2/NDF : 14921.0/4

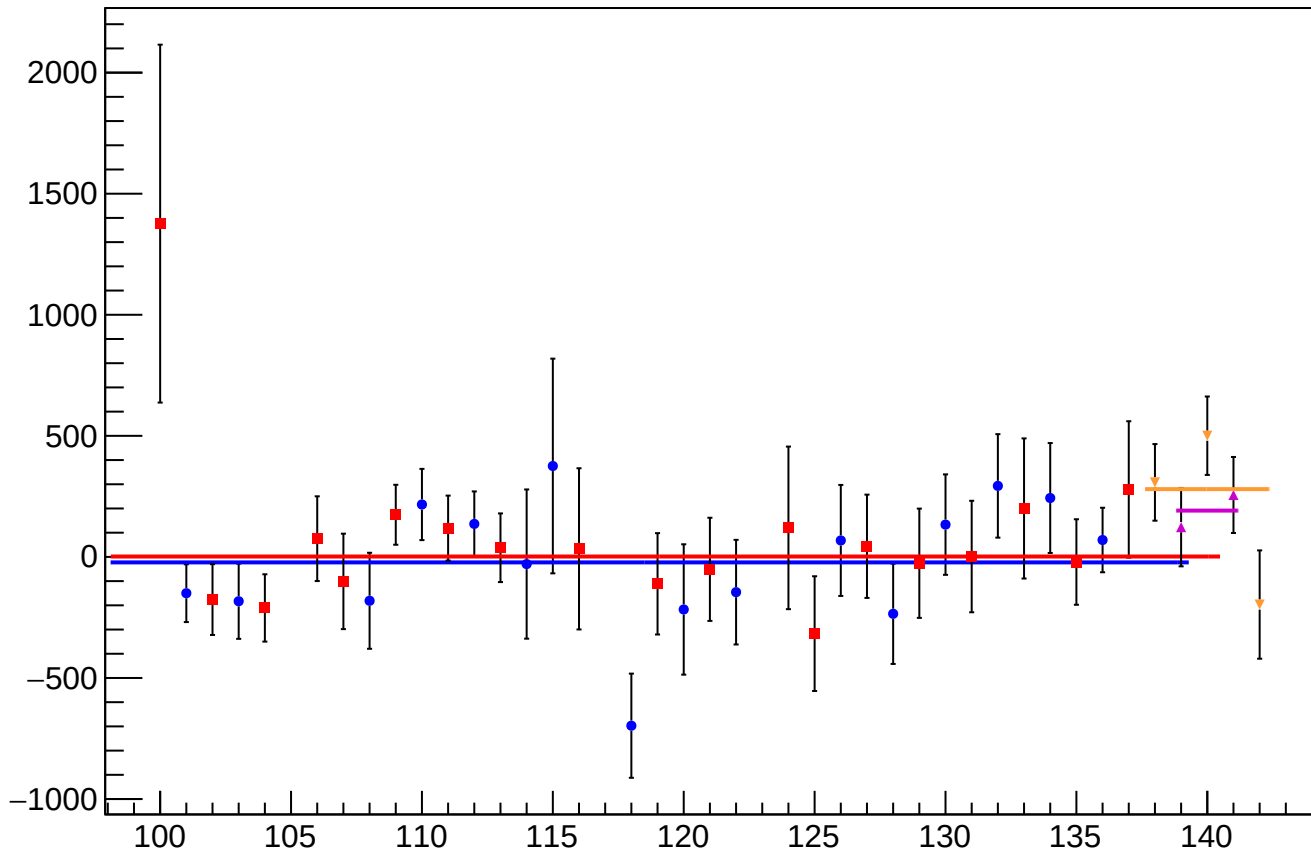
Right: 548.348+/-0.116 χ^2/NDF : 6775564.7/34

In: 572.298+/-0.154 χ^2/NDF : 4112173.3/17

Out: 599.813+/-0.153 χ^2/NDF : 3553655.6/21

All: 586.146+/-0.109 χ^2/NDF : 7681841.2/39

dit_asym_sam6_mean vs Slug, Sign Corrected



Right In: -22.678 ± 45.908 χ^2/NDF : 24.2/15

Left Out: 279.901 ± 100.979 χ^2/NDF : 6.4/2

Right Out: 1.600 ± 43.563 χ^2/NDF : 14.3/18

Left In: 191.303 ± 112.719 χ^2/NDF : 0.3/1

Left: 240.455 ± 75.212 χ^2/NDF : 7.1/4

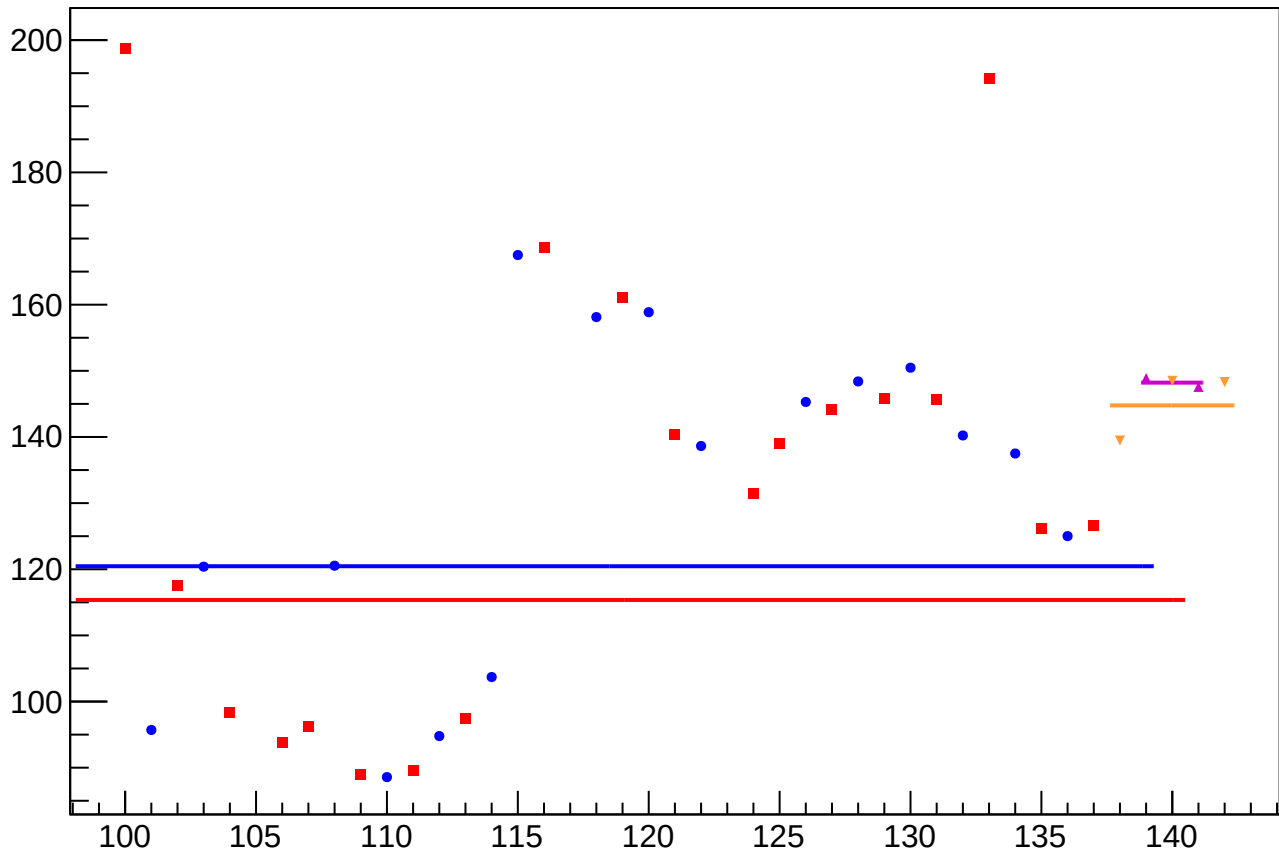
Right: -9.903 ± 31.600 χ^2/NDF : 38.6/34

In: 7.767 ± 42.517 χ^2/NDF : 27.6/17

Out: 45.268 ± 40.000 χ^2/NDF : 27.1/21

All: 27.660 ± 29.133 χ^2/NDF : 55.2/39

dit_asym_sam6_rms vs Slug, Sign Corrected



Right In: 120.458 +/- 0.032 χ^2/NDF : 530331.6/15

Left Out: 144.774 +/- 0.071 χ^2/NDF : 3803.0/2

Right Out: 115.357 +/- 0.031 χ^2/NDF : 767236.0/18

Left In: 148.215 +/- 0.080 χ^2/NDF : 67.7/1

Left: 146.306 +/- 0.053 χ^2/NDF : 4904.6/4

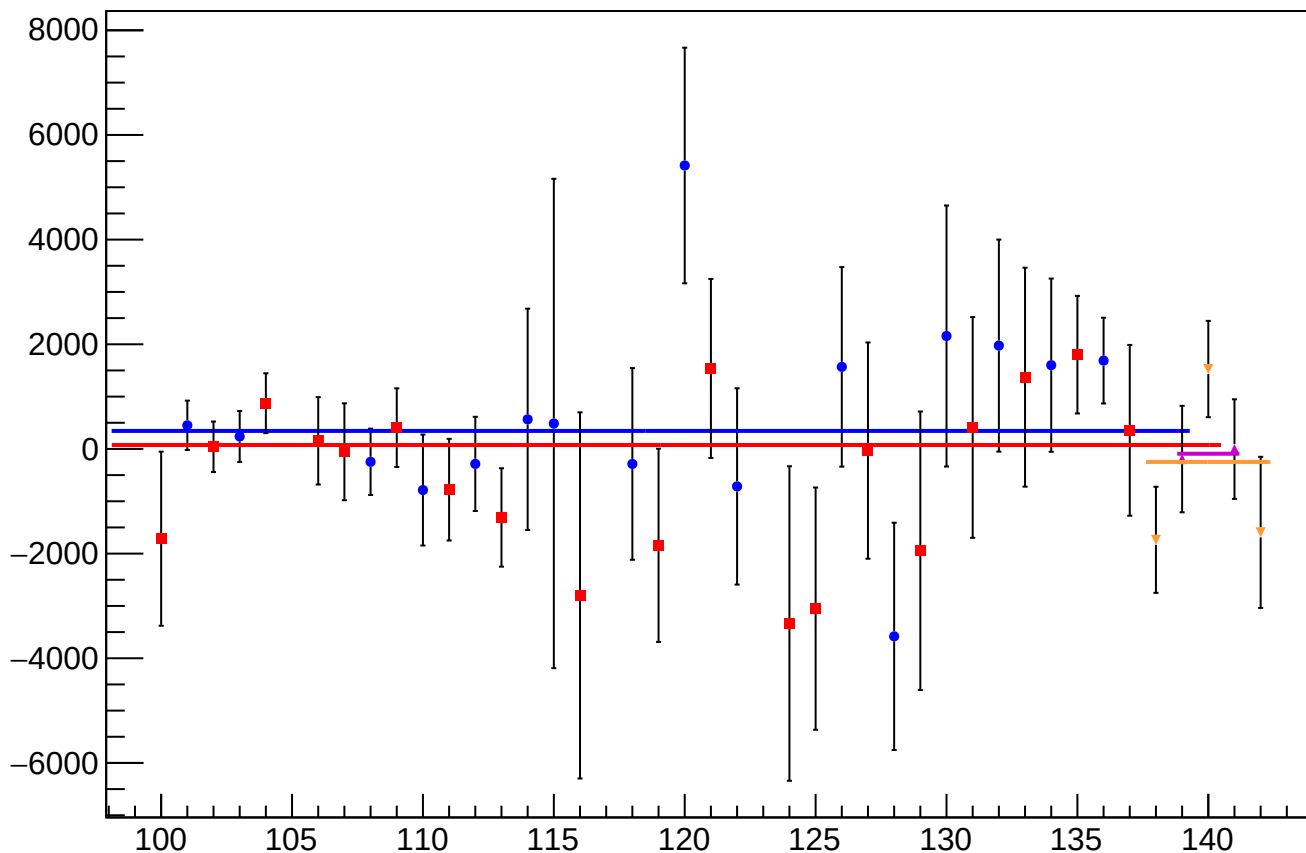
Right: 117.774 +/- 0.022 χ^2/NDF : 1310562.3/34

In: 124.407 +/- 0.030 χ^2/NDF : 634420.2/17

Out: 119.973 +/- 0.028 χ^2/NDF : 914141.8/21

All: 122.055 +/- 0.021 χ^2/NDF : 1560104.3/39

asym_sam6_dit_correction_mean vs Slug, Sign Corrected



Right In: 344.437 $\pm$ 241.532 χ^2 /NDF: 16.2/15

Left Out: -248.303 $\pm$ 616.234 χ^2 /NDF:6.7/2

Right Out: 75.434 $\pm$ 240.479 χ^2 /NDF: 15.3/18

Left In: -91.631 $\pm$ 694.869 χ^2 /NDF:0.0/1

Left: -179.330 $\pm$ 461.049 χ^2 /NDF: 6.8/4

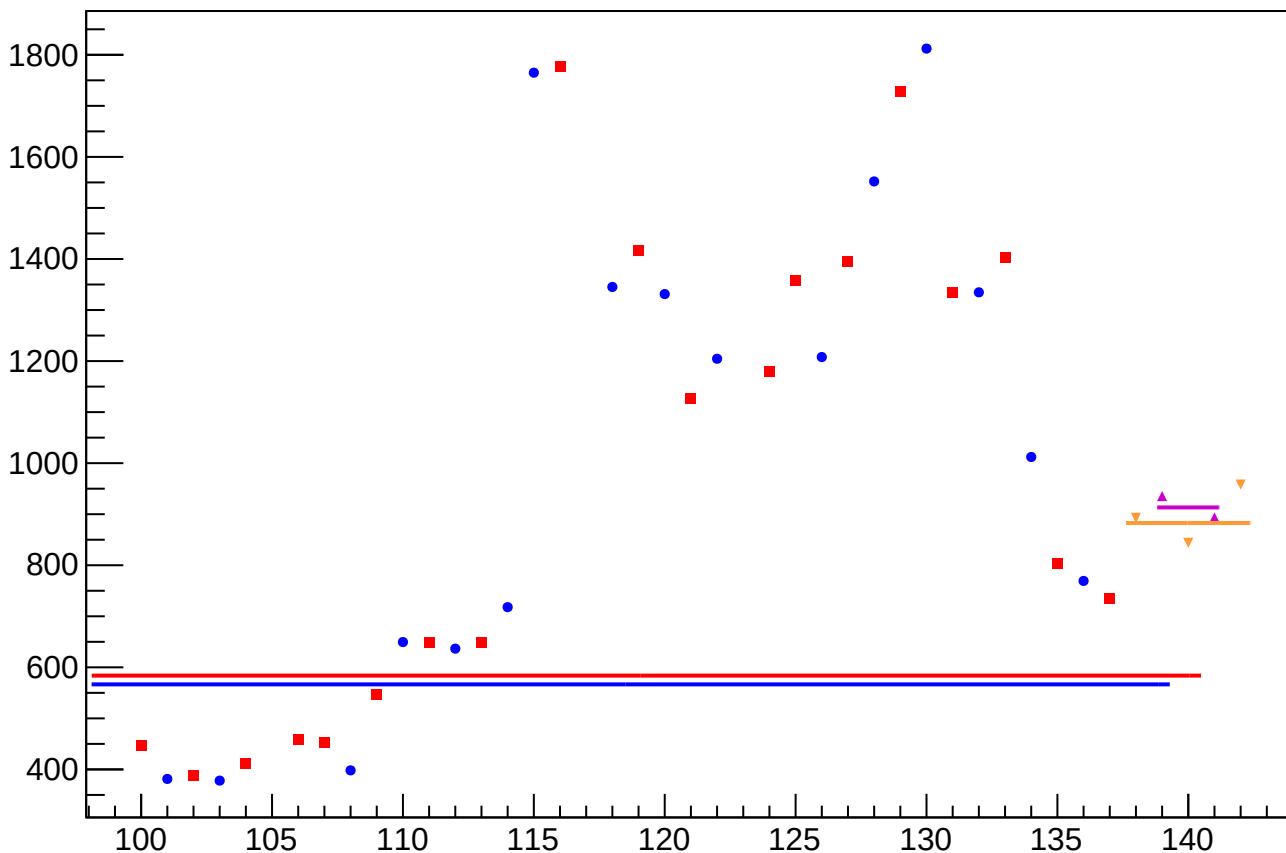
Right: 209.348 $\pm$ 170.415 χ^2 /NDF: 32.1/34

In: 297.430 $\pm$ 228.142 χ^2 /NDF:16.6/17

Out: 32.649 $\pm$ 224.025 χ^2 /NDF:22.2/21

All: 162.629 $\pm$ 159.846 χ^2 /NDF: 39.5/39

asym_sam6_dit_correction_rms vs Slug, Sign Corrected



Right In: 566.603 $\pm$ 0.171 χ^2 /NDF: 3432440.2/15

Left Out: 882.811 $\pm$ 0.436 χ^2 /NDF: 9200.5/2

Right Out: 583.794 $\pm$ 0.170 χ^2 /NDF: 3107513.6/18

Left In: 913.243 $\pm$ 0.491 χ^2 /NDF: 1787.5/1

Left: 896.208 $\pm$ 0.326 χ^2 /NDF: 13135.3/4

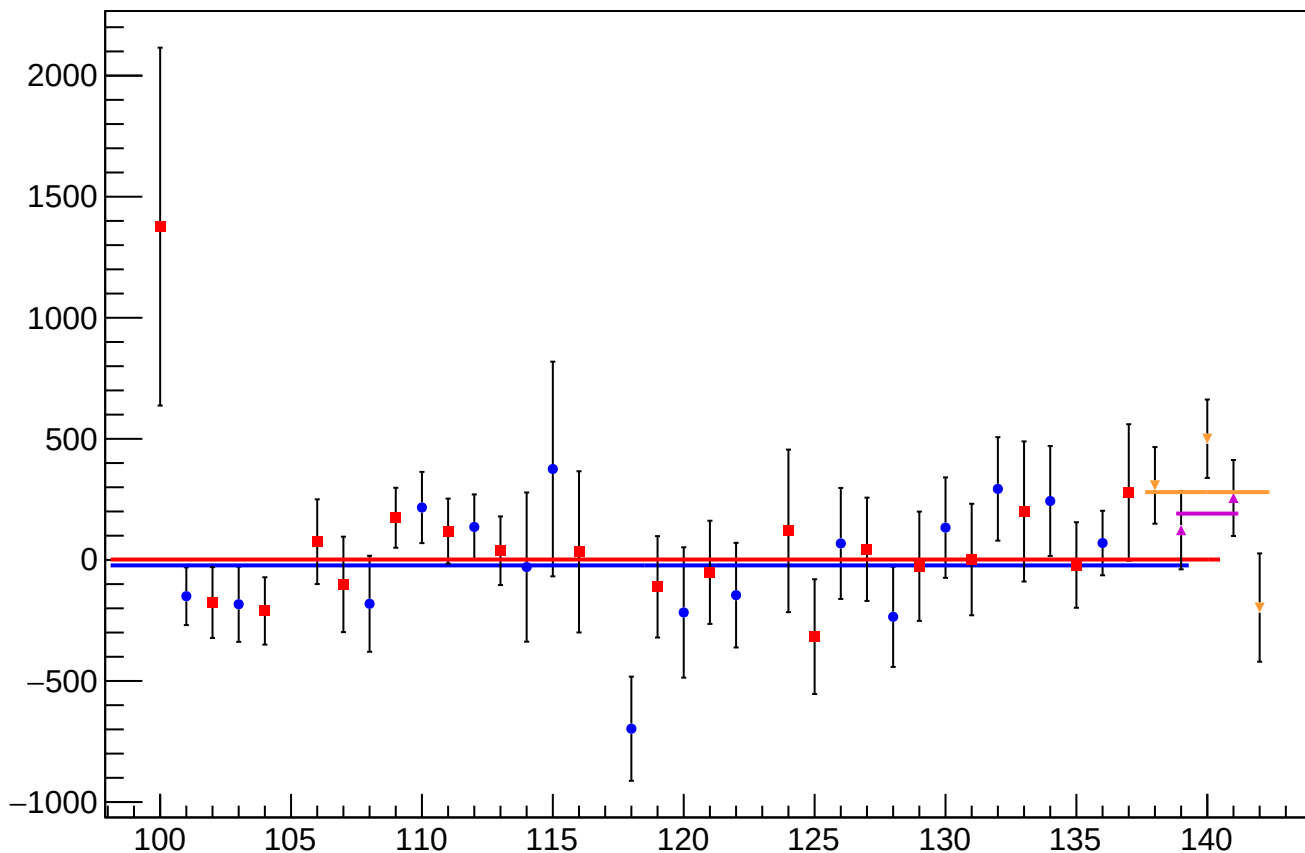
Right: 575.236 $\pm$ 0.121 χ^2 /NDF: 6545041.6/34

In: 603.970 $\pm$ 0.161 χ^2 /NDF: 3878290.9/17

Out: 623.312 $\pm$ 0.158 χ^2 /NDF: 3525380.7/21

All: 613.817 $\pm$ 0.113 χ^2 /NDF: 7410990.5/39

eigen_dit_asym_sam6_mean vs Slug, Sign Corrected



Right In: -22.680 ± 45.908 χ^2/NDF : 24.2/15

Left Out: 279.903 ± 100.979 χ^2/NDF : 6.4/2

Right Out: 1.601 ± 43.563 χ^2/NDF : 14.3/18

Left In: 191.301 ± 112.719 χ^2/NDF : 0.3/1

Left: 240.455 ± 75.212 χ^2/NDF : 7.1/4

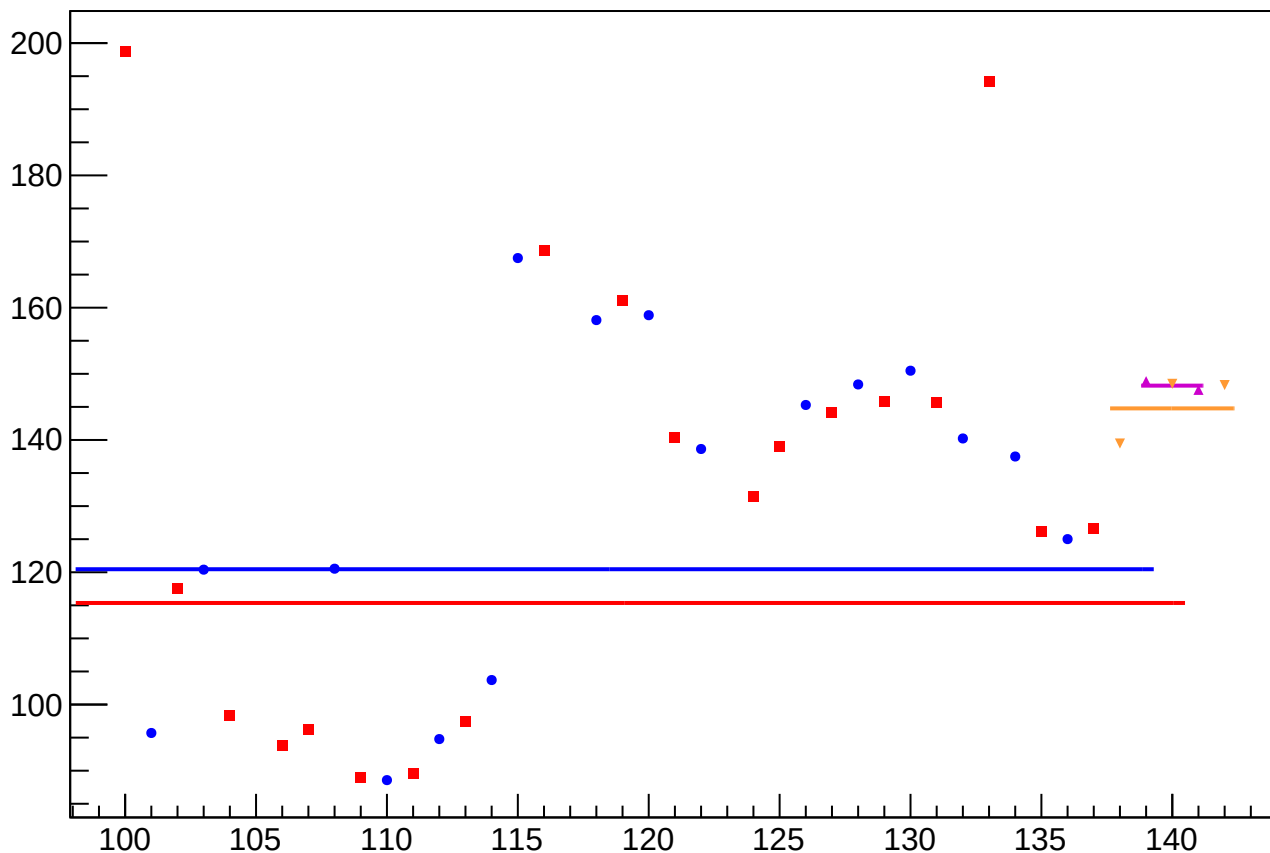
Right: -9.903 ± 31.600 χ^2/NDF : 38.6/34

In: 7.765 ± 42.517 χ^2/NDF : 27.6/17

Out: 45.269 ± 39.999 χ^2/NDF : 27.1/21

All: 27.660 ± 29.133 χ^2/NDF : 55.2/39

eigen_dit_asym_sam6_rms vs Slug, Sign Corrected



Right In: 120.458 $\pm$ 0.032 χ^2 /NDF: 530335.0/15

Left Out: 144.774 $\pm$ 0.071 χ^2 /NDF:3802.7/2

Right Out: 115.357 $\pm$ 0.031 χ^2 /NDF: 767234.8/18

Left In: 148.215 $\pm$ 0.080 χ^2 /NDF:67.7/1

Left: 146.306 $\pm$ 0.053 χ^2 /NDF: 4904.3/4

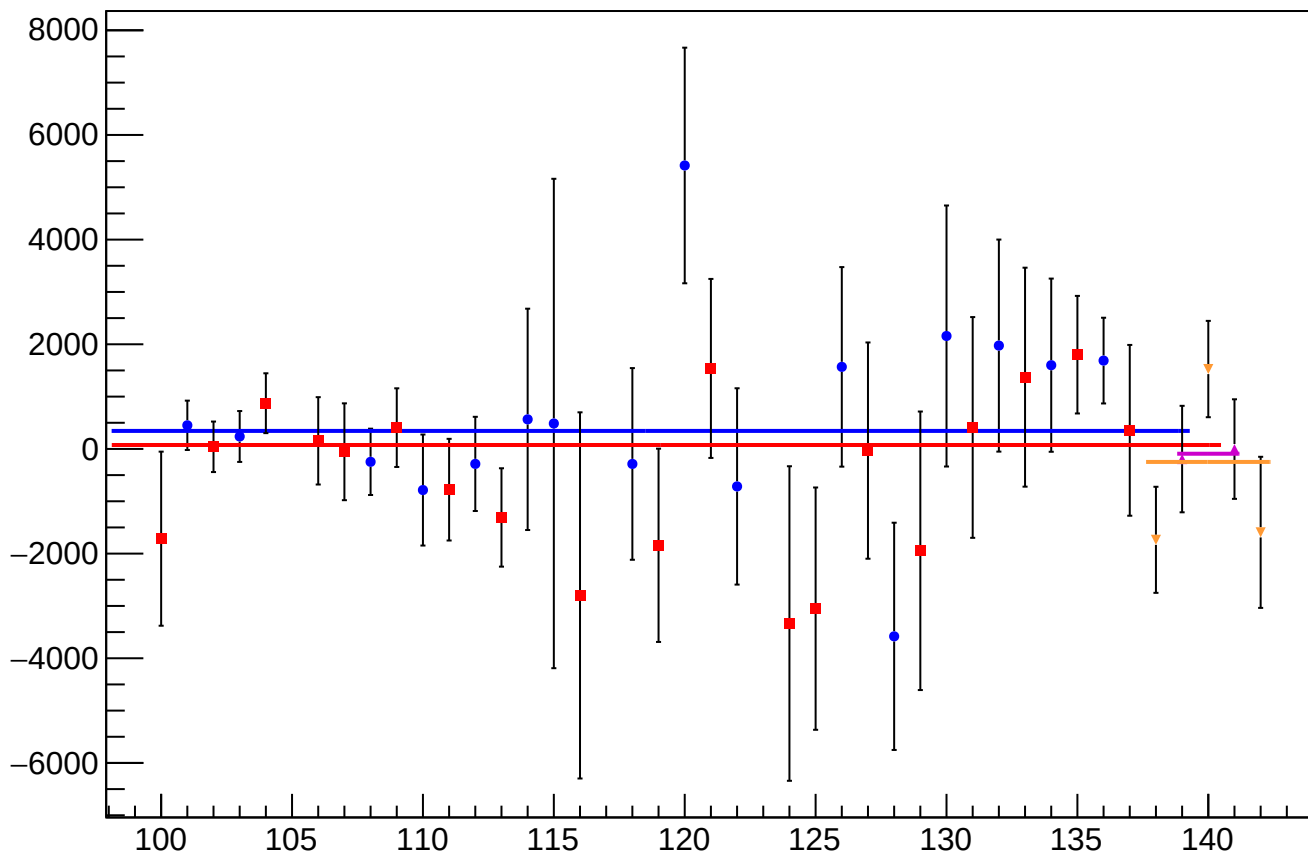
Right: 117.774 $\pm$ 0.022 χ^2 /NDF: 1310564.2/34

In: 124.407 $\pm$ 0.030 χ^2 /NDF:634424.4/17

Out: 119.973 $\pm$ 0.028 χ^2 /NDF:914141.2/21

All: 122.055 $\pm$ 0.021 χ^2 /NDF: 1560107.6/39

asym_sam6_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 344.436 $\pm$ 241.531 χ^2 /NDF: 16.2/15

Left Out: -248.298 $\pm$ 616.234 χ^2 /NDF:6.7/2

Right Out: 75.435 $\pm$ 240.479 χ^2 /NDF: 15.3/18

Left In: -91.632 $\pm$ 694.868 χ^2 /NDF:0.0/1

Left: -179.328 $\pm$ 461.049 χ^2 /NDF: 6.8/4

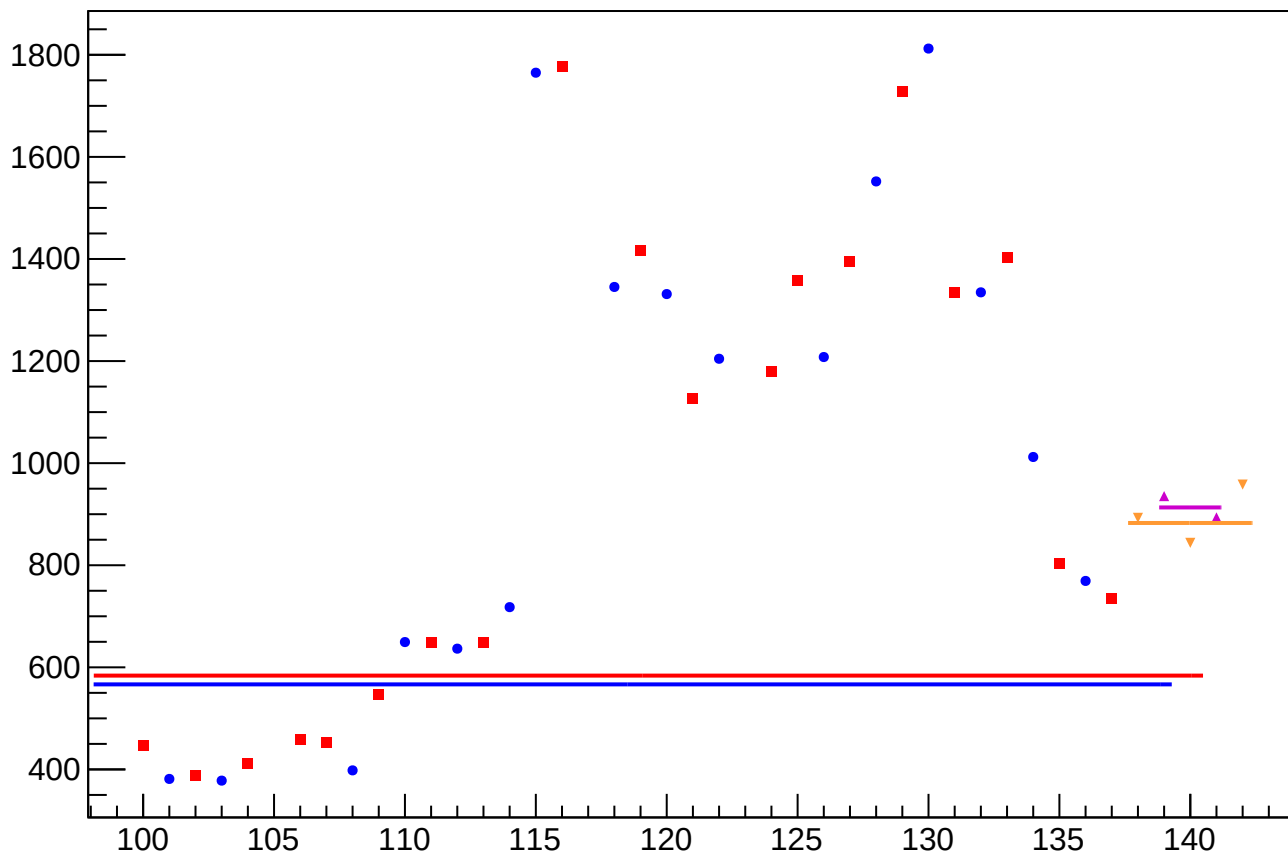
Right: 209.348 $\pm$ 170.415 χ^2 /NDF: 32.1/34

In: 297.429 $\pm$ 228.142 χ^2 /NDF:16.6/17

Out: 32.650 $\pm$ 224.025 χ^2 /NDF:22.2/21

All: 162.629 $\pm$ 159.845 χ^2 /NDF: 39.5/39

asym_sam6_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 566.603+/-0.171 χ^2/NDF : 3432444.7/15

Left Out: 882.810+/-0.436 χ^2/NDF : 9200.9/2

Right Out: 583.794+/-0.170 χ^2/NDF : 3107513.8/18

Left In: 913.242+/-0.491 χ^2/NDF : 1787.7/1

Left: 896.208+/-0.326 χ^2/NDF : 13135.9/4

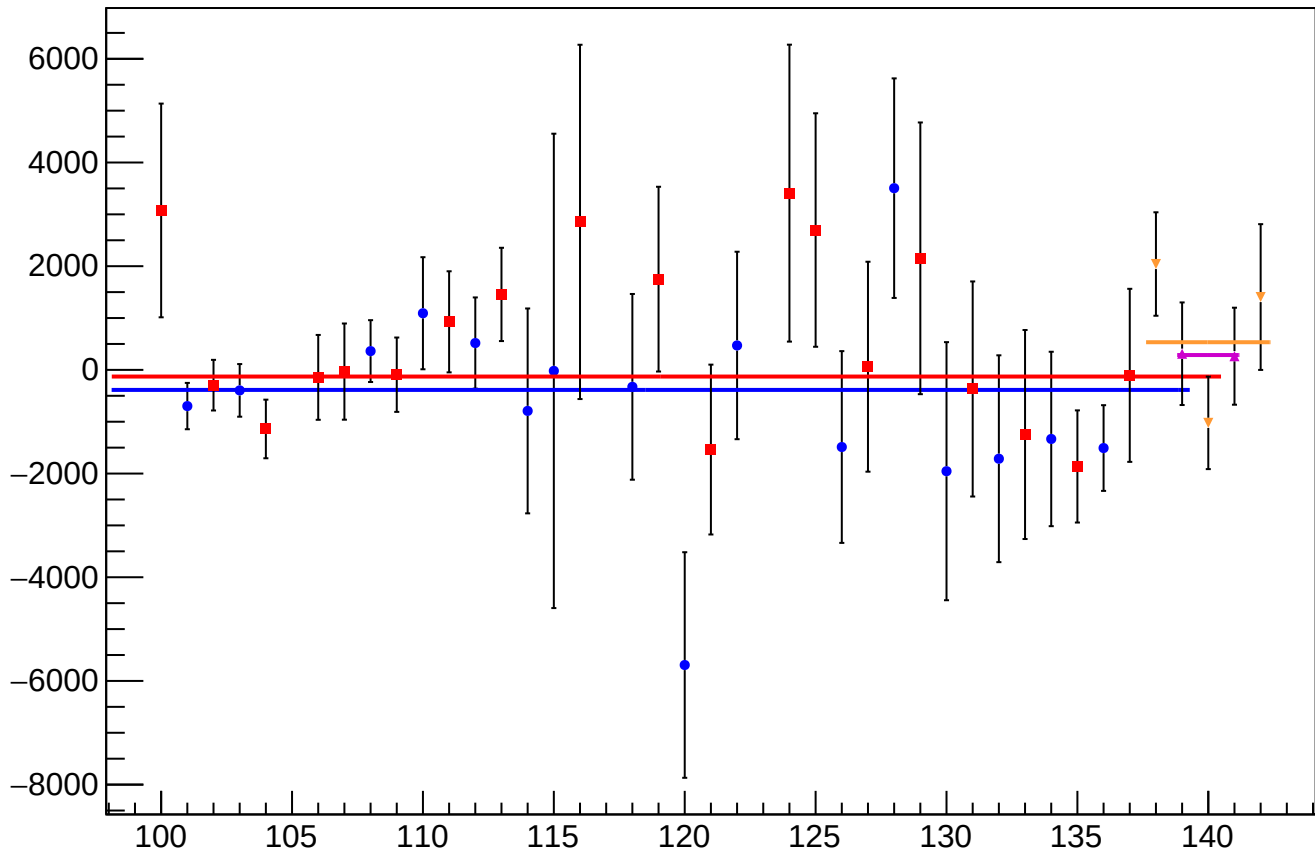
Right: 575.236+/-0.121 χ^2/NDF : 6545046.5/34

In: 603.969+/-0.161 χ^2/NDF : 3878295.9/17

Out: 623.312+/-0.158 χ^2/NDF : 3525381.2/21

All: 613.817+/-0.113 χ^2/NDF : 7410996.1/39

asym_sam6_mean vs Slug, Sign Corrected



Right In: -386.522 ± 237.525 χ^2/NDF : 17.9/15

Left Out: 533.480 ± 601.113 χ^2/NDF : 5.7/2

Right Out: -128.583 ± 238.241 χ^2/NDF : 19.4/18

Left In: 286.281 ± 679.800 χ^2/NDF : 0.0/1

Left: 425.009 ± 450.313 χ^2/NDF : 5.8/4

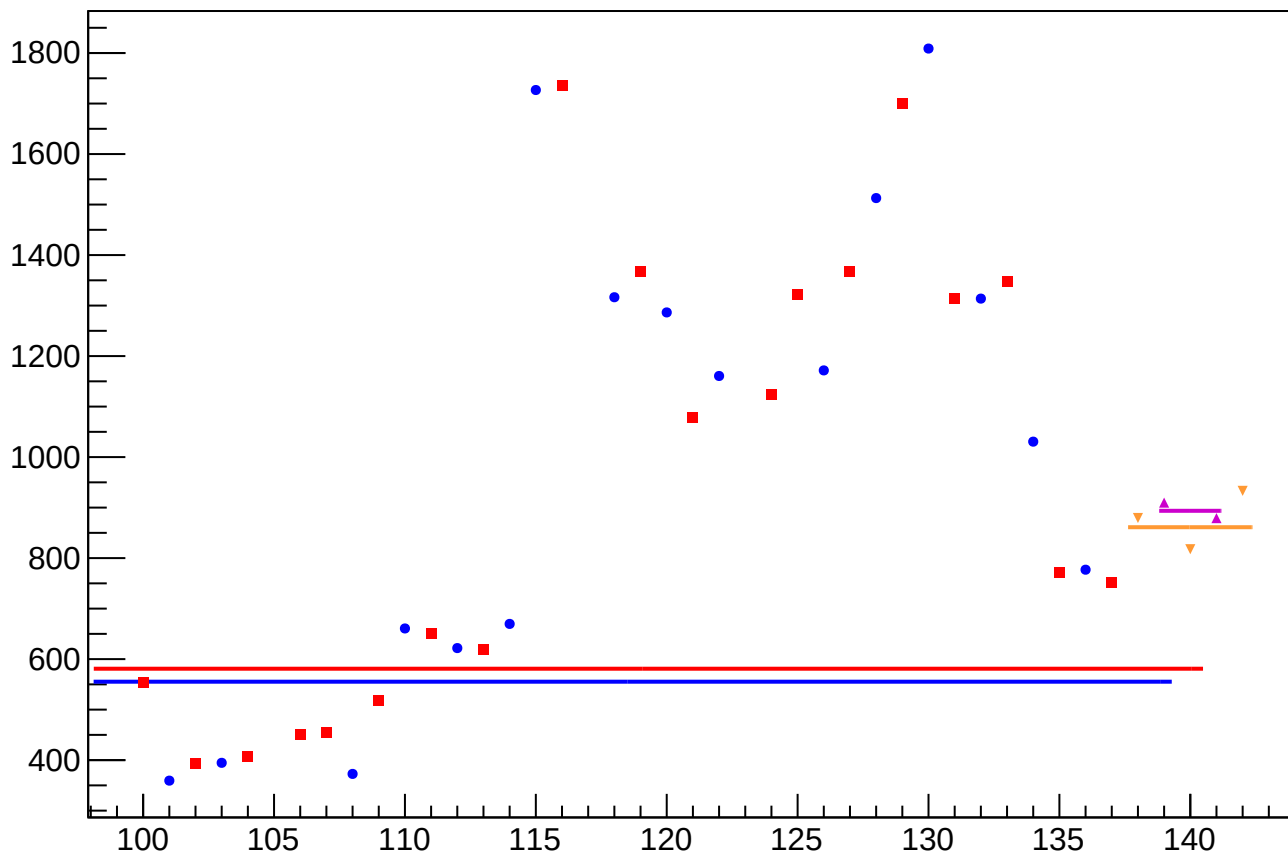
Right: -257.941 ± 168.208 χ^2/NDF : 37.9/34

In: -313.321 ± 224.231 χ^2/NDF : 18.8/17

Out: -38.705 ± 221.480 χ^2/NDF : 26.1/21

All: -174.318 ± 157.574 χ^2/NDF : 45.7/39

asym_sam6_rms vs Slug, Sign Corrected



Right In: 555.292 ± 0.168 $\chi^2/\text{NDF}: 3482531.0/15$

Left Out: 861.157 ± 0.425 $\chi^2/\text{NDF}: 10686.9/2$

Right Out: 580.996 ± 0.168 $\chi^2/\text{NDF}: 2983560.8/18$

Left In: 893.658 ± 0.481 $\chi^2/\text{NDF}: 1017.2/1$

Left: 875.419 ± 0.318 $\chi^2/\text{NDF}: 14269.7/4$

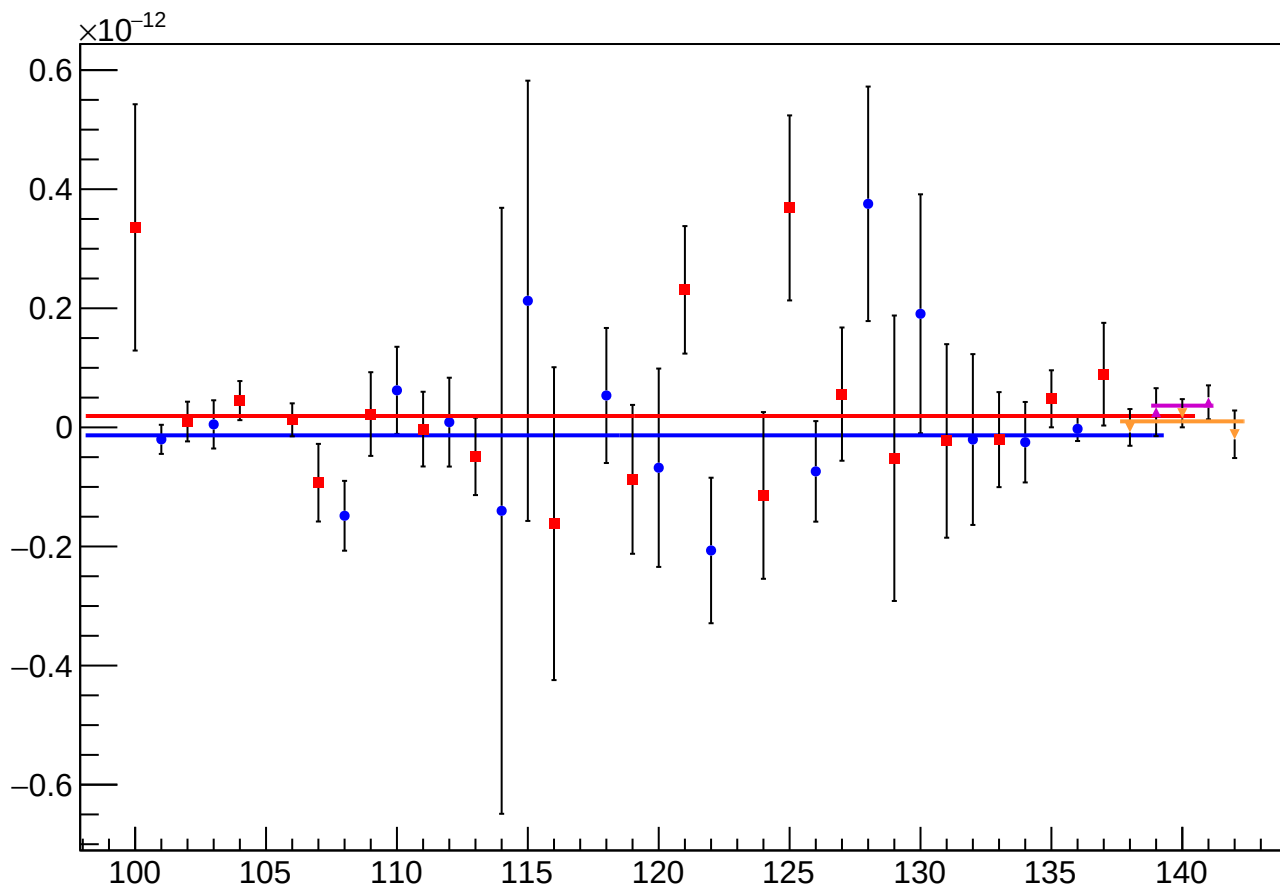
Right: 568.105 ± 0.119 $\chi^2/\text{NDF}: 6477767.0/34$

In: 592.106 ± 0.159 $\chi^2/\text{NDF}: 3925135.7/17$

Out: 619.029 ± 0.157 $\chi^2/\text{NDF}: 3369713.8/21$

All: 605.734 ± 0.111 $\chi^2/\text{NDF}: 7309443.5/39$

asym_sam6_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 15.9/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.7/2$

Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 19.9/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.1/1$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 1.7/4$

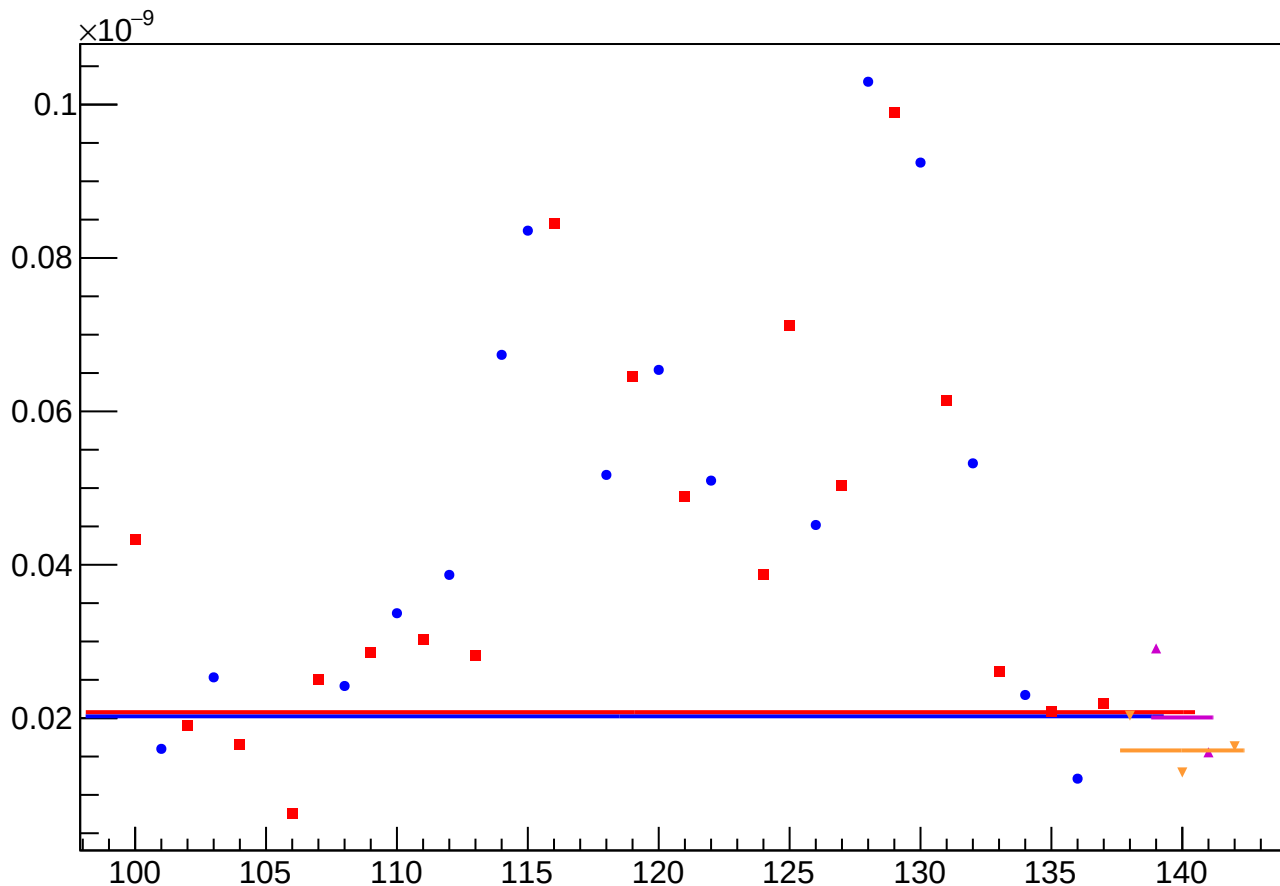
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 38.7/34$

In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 19.5/17$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 20.8/21$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 41.5/39$

asym_sam6_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 2004678.3/15

Left Out: 0.000+/-0.000

χ^2/NDF : 73197.8/2

Right Out: 0.000+/-0.000

χ^2/NDF : 1855885.9/18

Left In: 0.000+/-0.000

χ^2/NDF : 150817.2/1

Left: 0.000+/-0.000

χ^2/NDF : 268497.4/4

Right: 0.000+/-0.000

χ^2/NDF : 3862189.3/34

In: 0.000+/-0.000

χ^2/NDF : 2155559.3/17

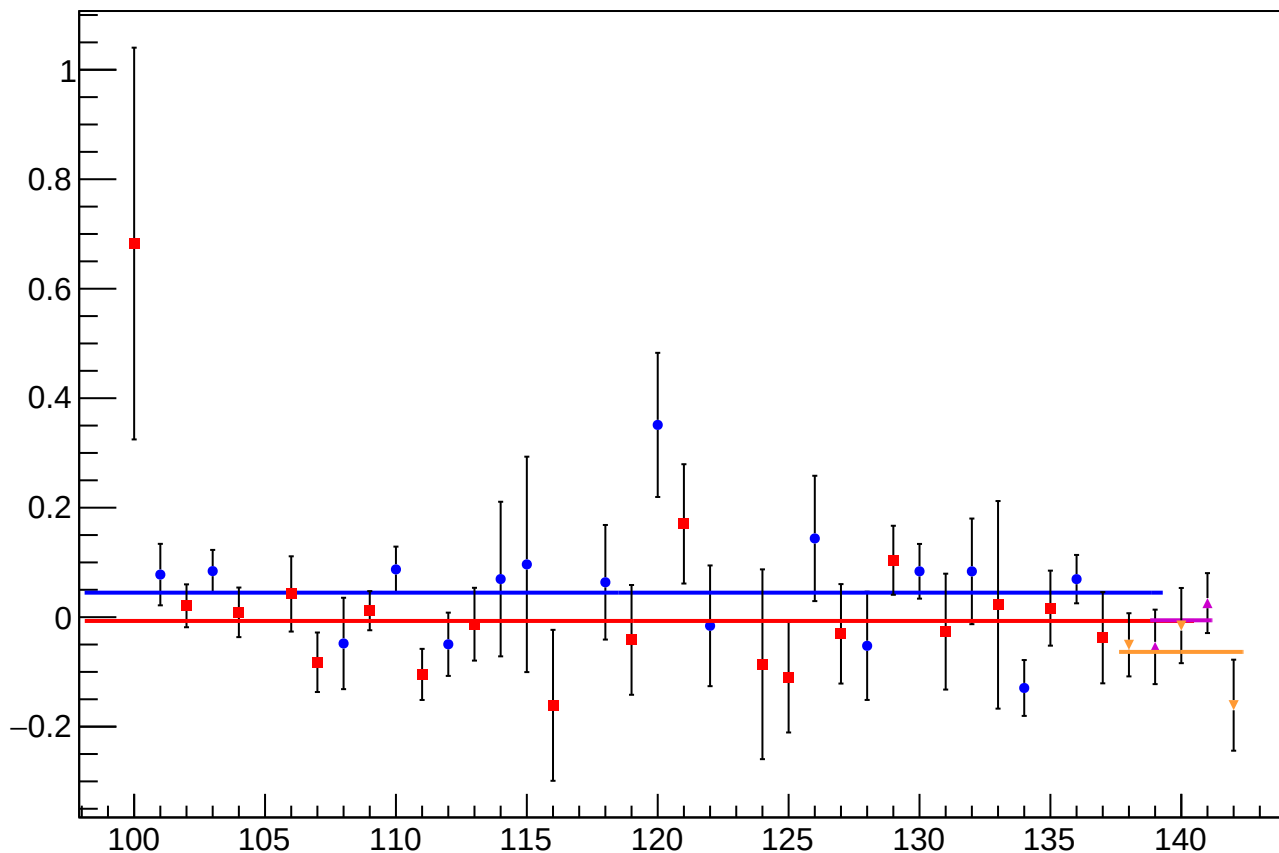
Out: 0.000+/-0.000

χ^2/NDF : 2032663.4/21

All: 0.000+/-0.000

χ^2/NDF : 4204733.5/39

asym_sam6_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.016 χ^2 /NDF: 26.6/15

Left Out: -0.063 $\pm$ 0.039 χ^2 /NDF:1.9/2

Right Out: -0.007 $\pm$ 0.015 χ^2 /NDF: 20.2/18

Left In: -0.006 $\pm$ 0.043 χ^2 /NDF:0.8/1

Left: -0.037 $\pm$ 0.029 χ^2 /NDF: 3.7/4

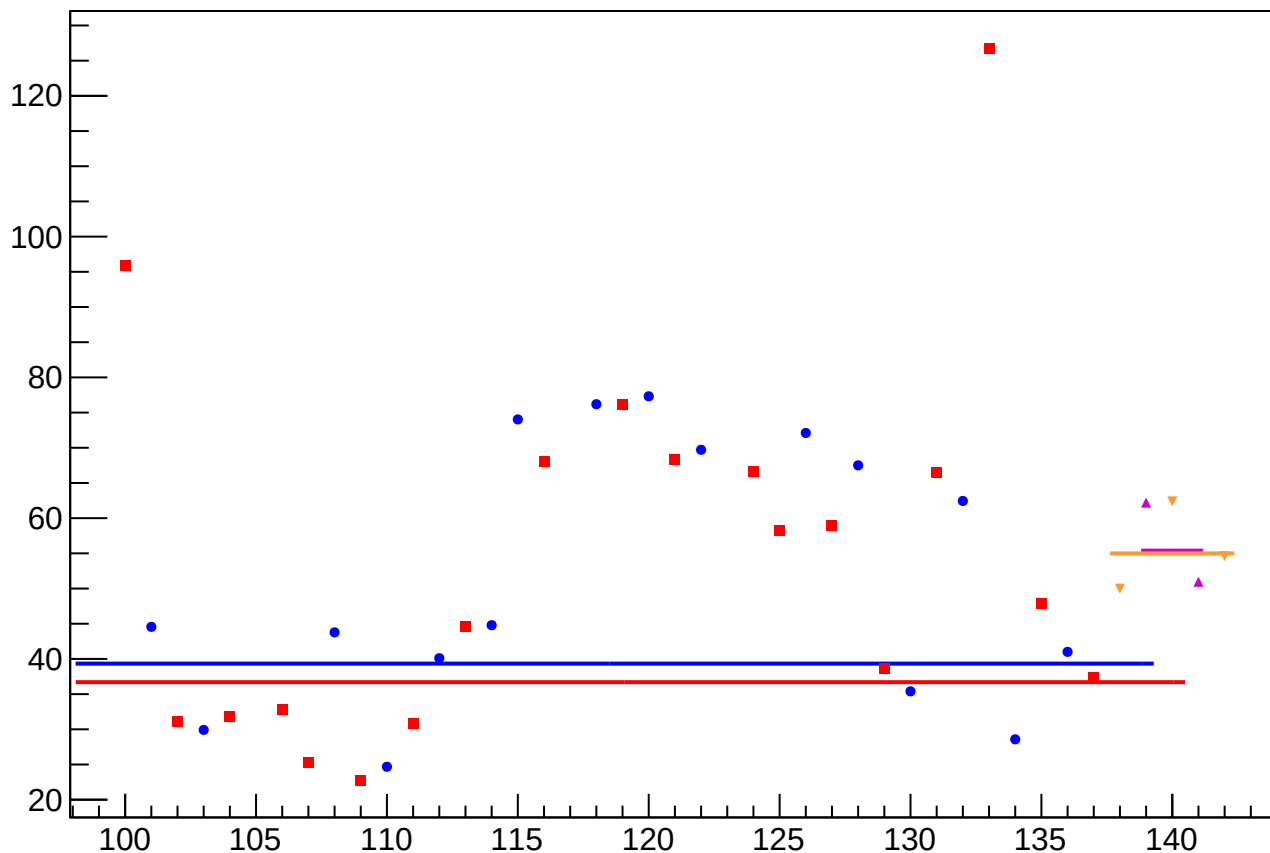
Right: 0.017 $\pm$ 0.011 χ^2 /NDF: 52.3/34

In: 0.039 $\pm$ 0.015 χ^2 /NDF:28.7/17

Out: -0.014 $\pm$ 0.014 χ^2 /NDF:23.9/21

All: 0.010 $\pm$ 0.010 χ^2 /NDF: 59.2/39

asym_sam6_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 39.335+/-0.011 χ^2/NDF : 1566525.1/15

Left Out: 54.990+/-0.028 χ^2/NDF : 38253.0/2

Right Out: 36.700+/-0.011 χ^2/NDF : 2096756.0/18

Left In: 55.388+/-0.030 χ^2/NDF : 33165.1/1

Left: 55.171+/-0.020 χ^2/NDF : 71513.1/4

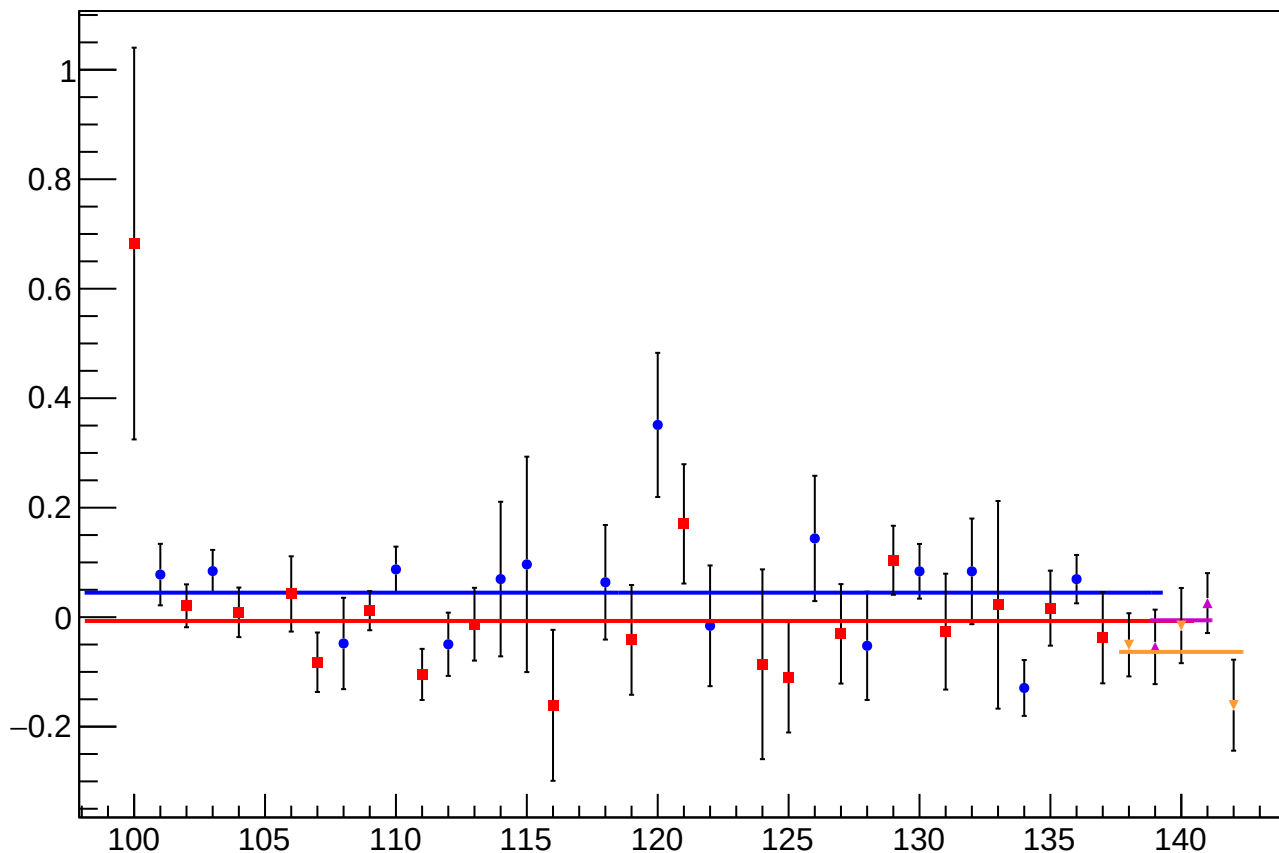
Right: 37.940+/-0.008 χ^2/NDF : 3691907.9/34

In: 41.320+/-0.011 χ^2/NDF : 1848019.2/17

Out: 39.086+/-0.010 χ^2/NDF : 2517230.9/21

All: 40.133+/-0.007 χ^2/NDF : 4388827.2/39

asym_sam6_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.045 ± 0.016 χ^2/NDF : 26.6/15

Left Out: -0.063 ± 0.039 χ^2/NDF : 1.9/2

Right Out: -0.007 ± 0.015 χ^2/NDF : 20.2/18

Left In: -0.006 ± 0.043 χ^2/NDF : 0.8/1

Left: -0.037 ± 0.029 χ^2/NDF : 3.7/4

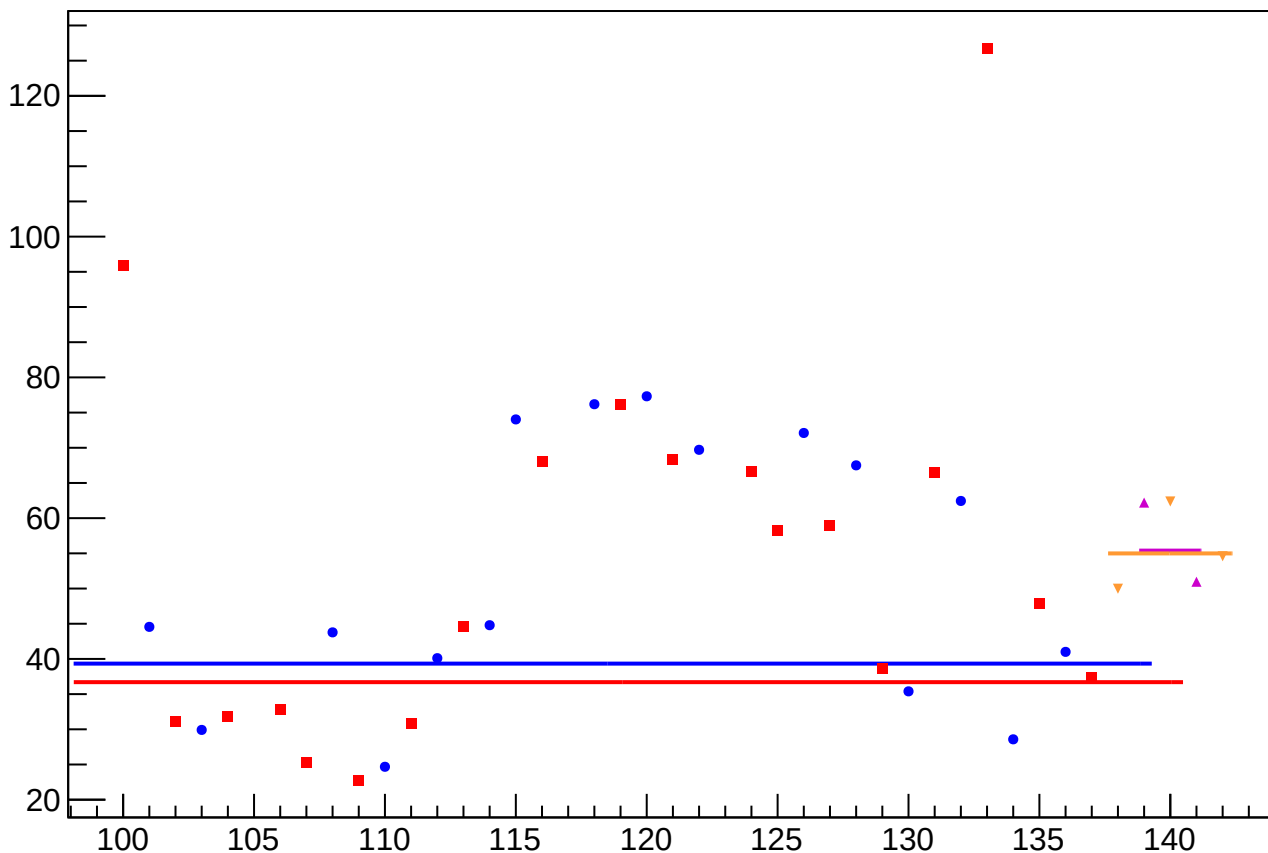
Right: 0.017 ± 0.011 χ^2/NDF : 52.3/34

In: 0.039 ± 0.015 χ^2/NDF : 28.7/17

Out: -0.014 ± 0.014 χ^2/NDF : 23.9/21

All: 0.010 ± 0.010 χ^2/NDF : 59.2/39

asym_sam6_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 39.335+/-0.011 χ^2 /NDF: 1566525.1/15

Left Out: 54.990+/-0.028 χ^2 /NDF:38253.0/2

Right Out: 36.700+/-0.011 χ^2 /NDF: 2096756.0/18

Left In: 55.388+/-0.030 χ^2 /NDF:33165.1/1

Left: 55.171+/-0.020 χ^2 /NDF: 71513.1/4

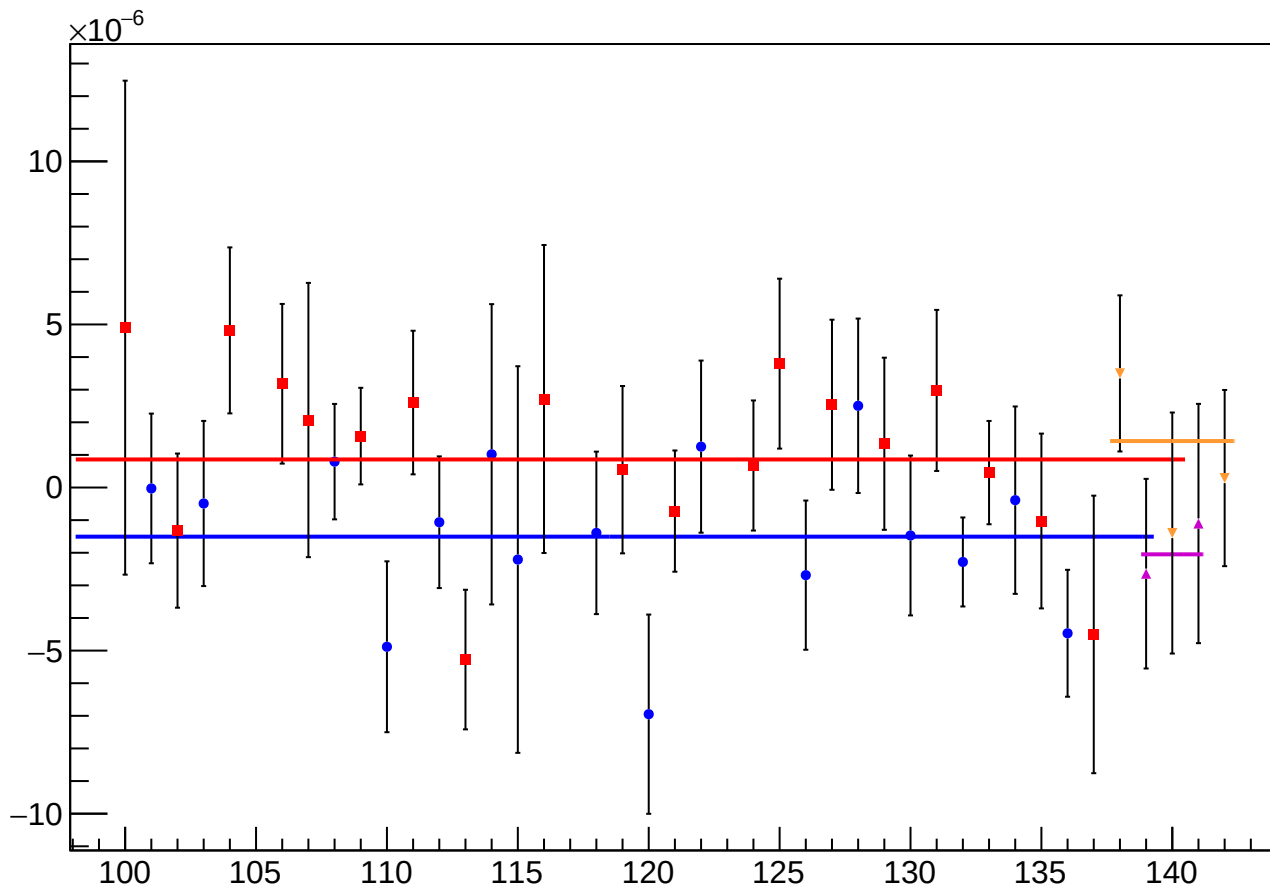
Right: 37.940+/-0.008 χ^2 /NDF: 3691907.9/34

In: 41.320+/-0.011 χ^2 /NDF:1848019.2/17

Out: 39.086+/-0.010 χ^2 /NDF:2517230.9/21

All: 40.133+/-0.007 χ^2 /NDF: 4388827.2/39

asym_sam6_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 13.9/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:1.5/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 19.1/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:0.1/1

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 3.2/4

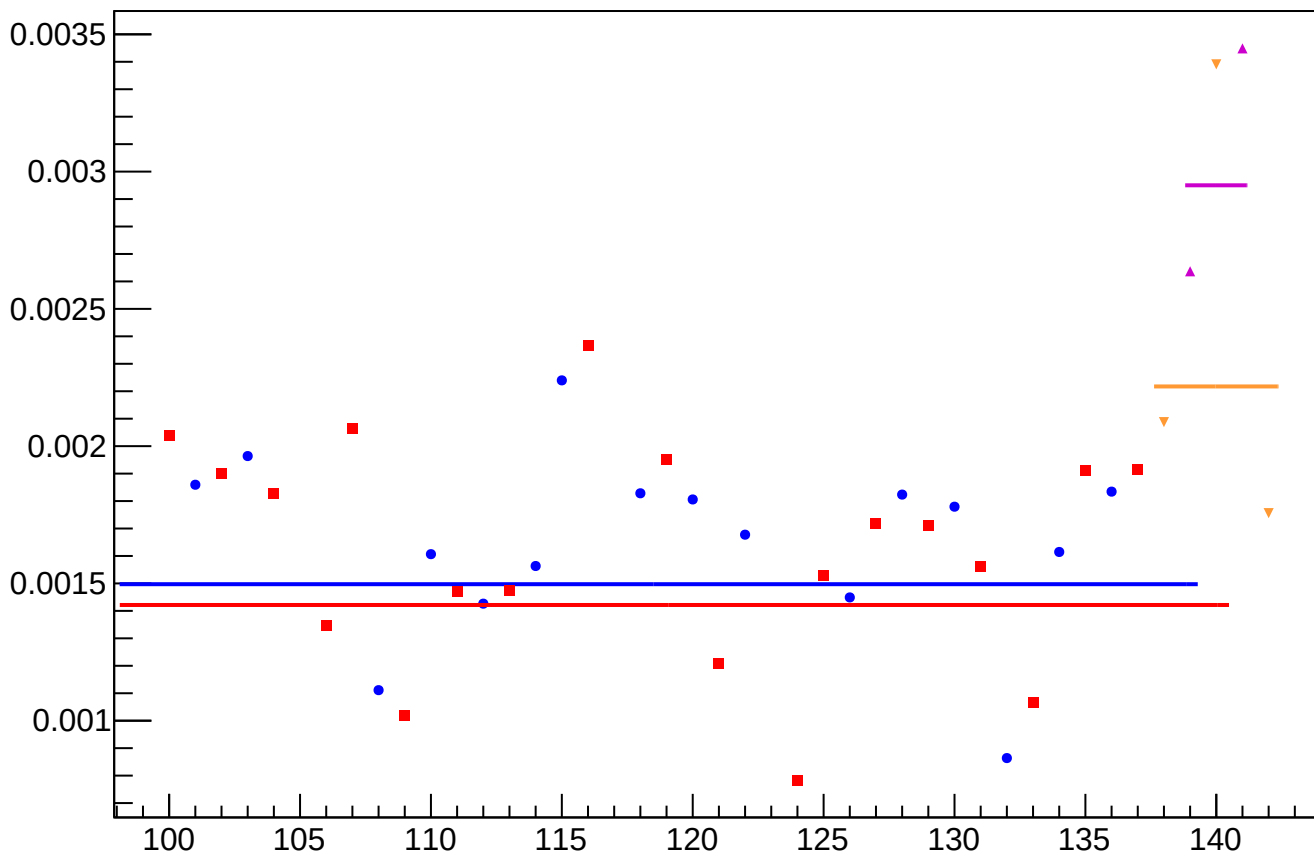
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 41.9/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:14.0/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:20.7/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 45.2/39

asym_sam6_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 867330.7/15

Left Out: 0.002+/-0.000 χ^2/NDF :265907.1/2

Right Out: 0.001+/-0.000 χ^2/NDF : 998047.4/18

Left In: 0.003+/-0.000 χ^2/NDF :60171.6/1

Left: 0.002+/-0.000 χ^2/NDF : 463909.1/4

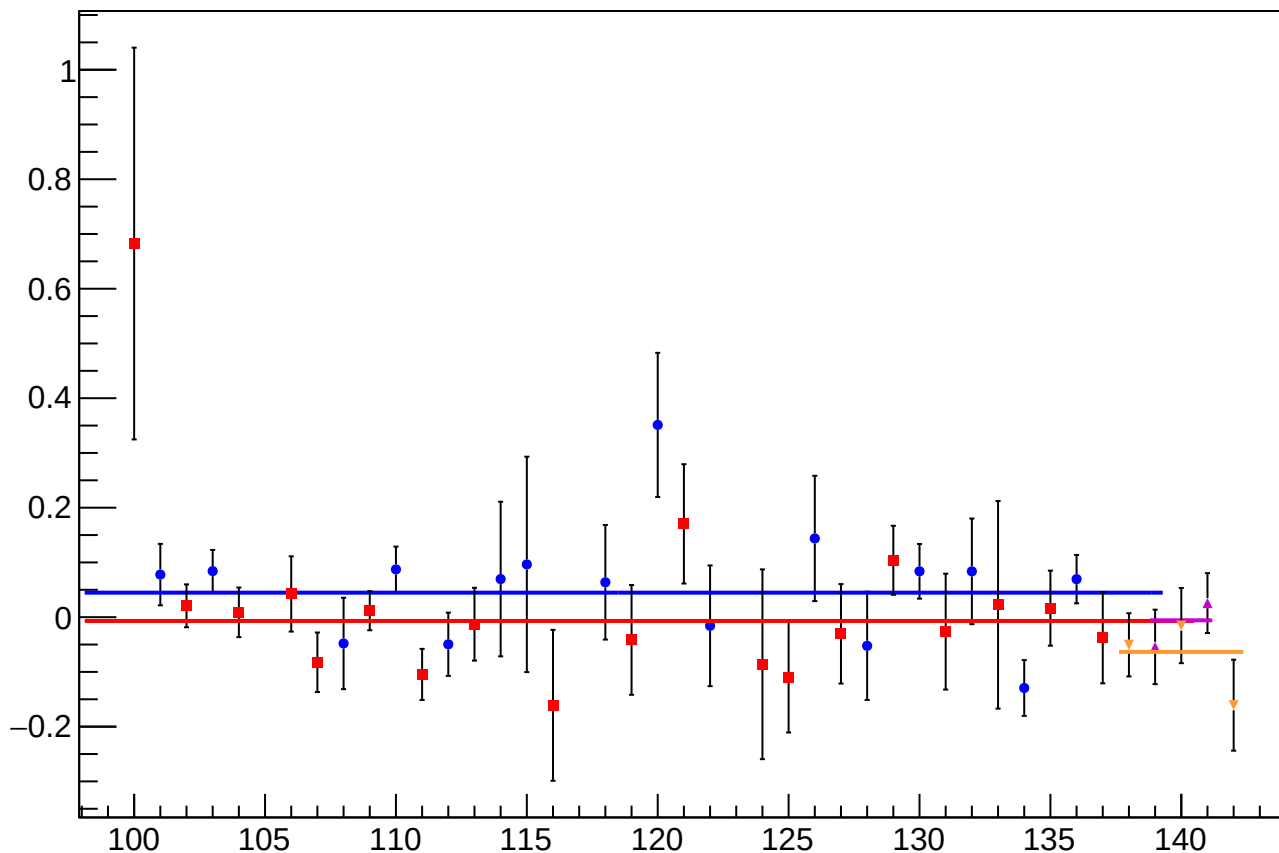
Right: 0.001+/-0.000 χ^2/NDF : 1883510.3/34

In: 0.002+/-0.000 χ^2/NDF :1691174.6/17

Out: 0.002+/-0.000 χ^2/NDF :1701921.7/21

All: 0.002+/-0.000 χ^2/NDF : 3416885.4/39

asym_sam6_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.045+/-0.016 χ^2/NDF : 26.6/15

Left Out: -0.063+/-0.039 χ^2/NDF : 1.9/2

Right Out: -0.007+/-0.015 χ^2/NDF : 20.2/18

Left In: -0.006+/-0.043 χ^2/NDF : 0.8/1

Left: -0.037+/-0.029 χ^2/NDF : 3.7/4

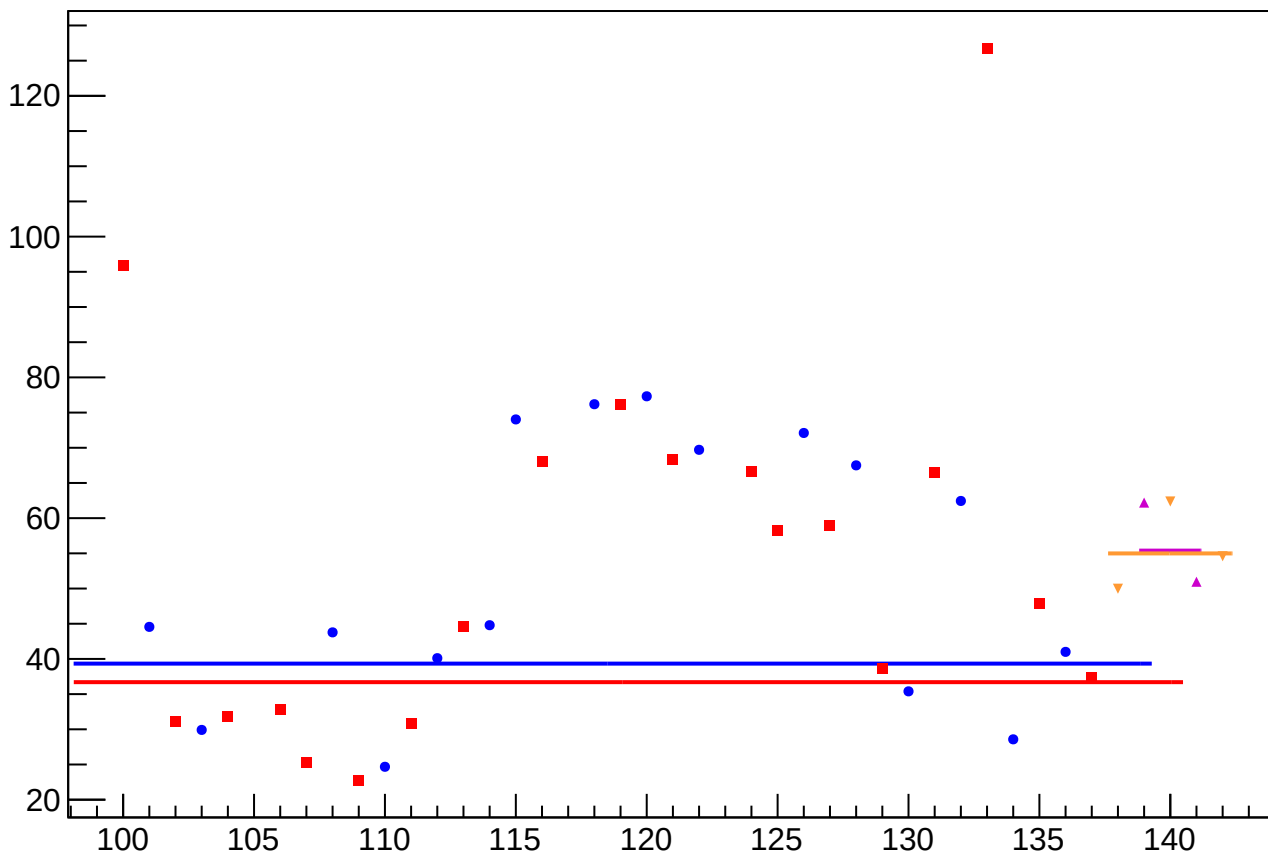
Right: 0.017+/-0.011 χ^2/NDF : 52.3/34

In: 0.039+/-0.015 χ^2/NDF : 28.7/17

Out: -0.014+/-0.014 χ^2/NDF : 23.9/21

All: 0.010+/-0.010 χ^2/NDF : 59.2/39

asym_sam6_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 39.334 ± 0.011 $\chi^2/\text{NDF}: 1566545.4/15$

Left Out: 54.990 ± 0.028 $\chi^2/\text{NDF}: 38247.7/2$

Right Out: 36.699 ± 0.011 $\chi^2/\text{NDF}: 2096748.4/18$

Left In: 55.387 ± 0.030 $\chi^2/\text{NDF}: 33171.1/1$

Left: 55.171 ± 0.020 $\chi^2/\text{NDF}: 71513.6/4$

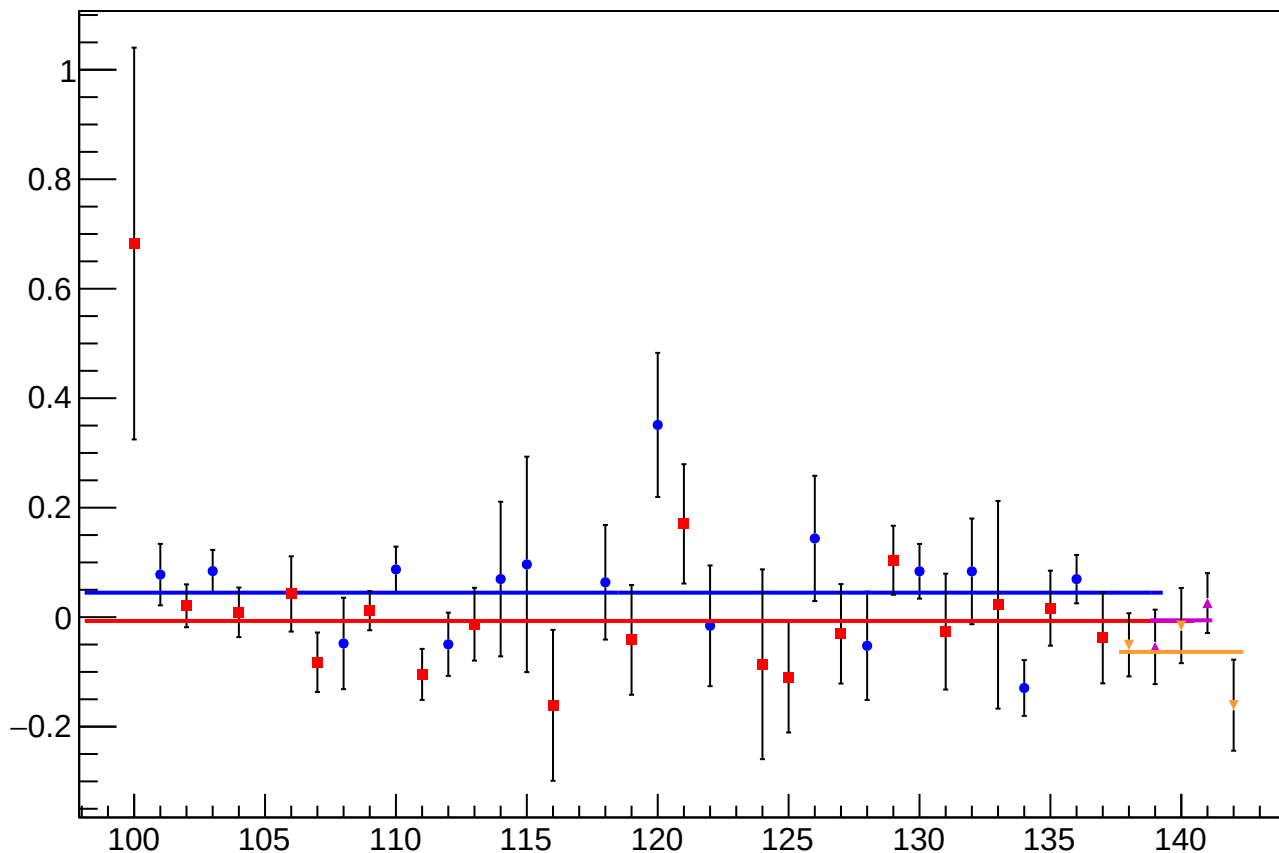
Right: 37.940 ± 0.008 $\chi^2/\text{NDF}: 3691915.1/34$

In: 41.319 ± 0.011 $\chi^2/\text{NDF}: 1848044.9/17$

Out: 39.085 ± 0.010 $\chi^2/\text{NDF}: 2517220.1/21$

All: 40.133 ± 0.007 $\chi^2/\text{NDF}: 4388836.4/39$

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.016 χ^2 /NDF: 26.6/15

Left Out: -0.063 $\pm$ 0.039 χ^2 /NDF:1.9/2

Right Out: -0.007 $\pm$ 0.015 χ^2 /NDF: 20.2/18

Left In: -0.006 $\pm$ 0.043 χ^2 /NDF:0.8/1

Left: -0.037 $\pm$ 0.029 χ^2 /NDF: 3.7/4

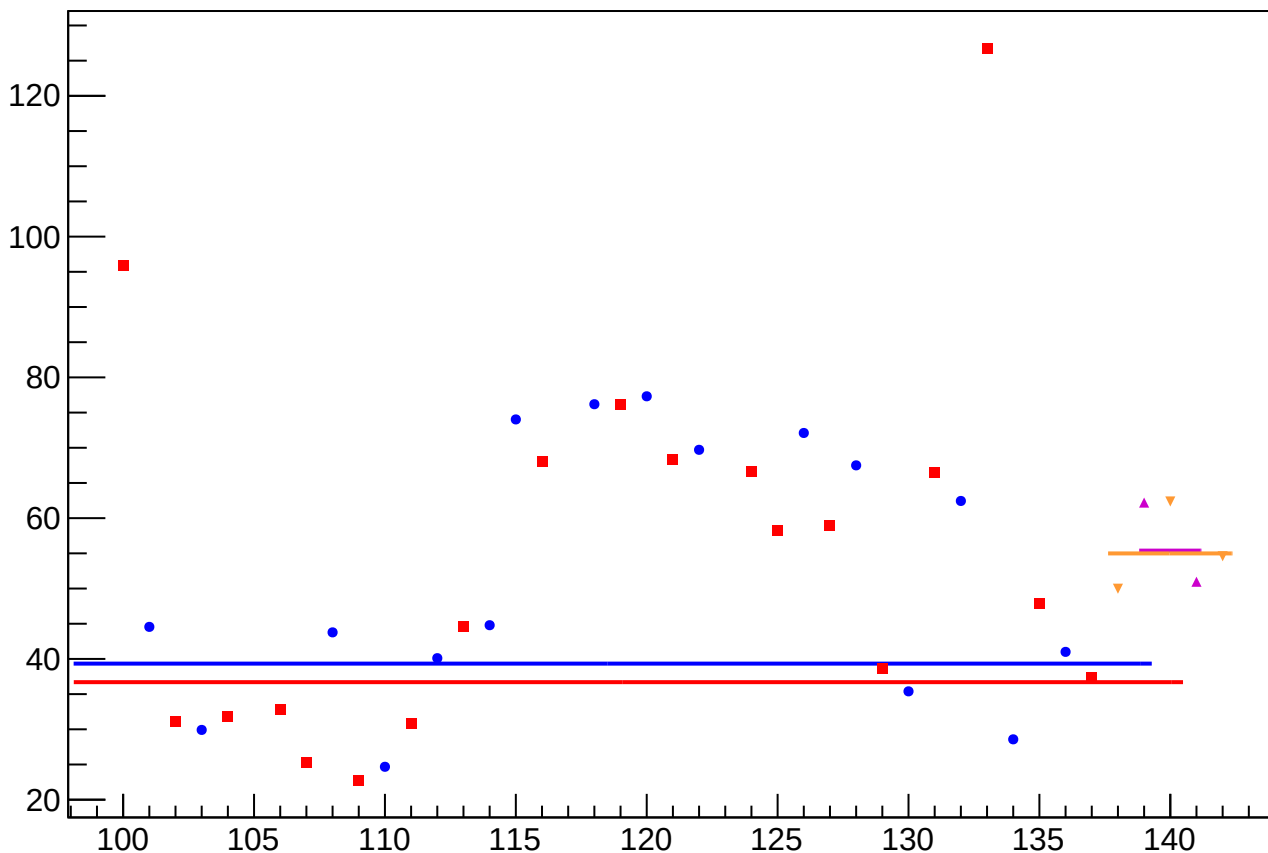
Right: 0.017 $\pm$ 0.011 χ^2 /NDF: 52.3/34

In: 0.039 $\pm$ 0.015 χ^2 /NDF:28.7/17

Out: -0.014 $\pm$ 0.014 χ^2 /NDF:23.9/21

All: 0.010 $\pm$ 0.010 χ^2 /NDF: 59.2/39

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 39.334+/-0.011 χ^2/NDF : 1566545.4/15

Left Out: 54.990+/-0.028 χ^2/NDF : 38247.7/2

Right Out: 36.699+/-0.011 χ^2/NDF : 2096748.4/18

Left In: 55.387+/-0.030 χ^2/NDF : 33171.1/1

Left: 55.171+/-0.020 χ^2/NDF : 71513.6/4

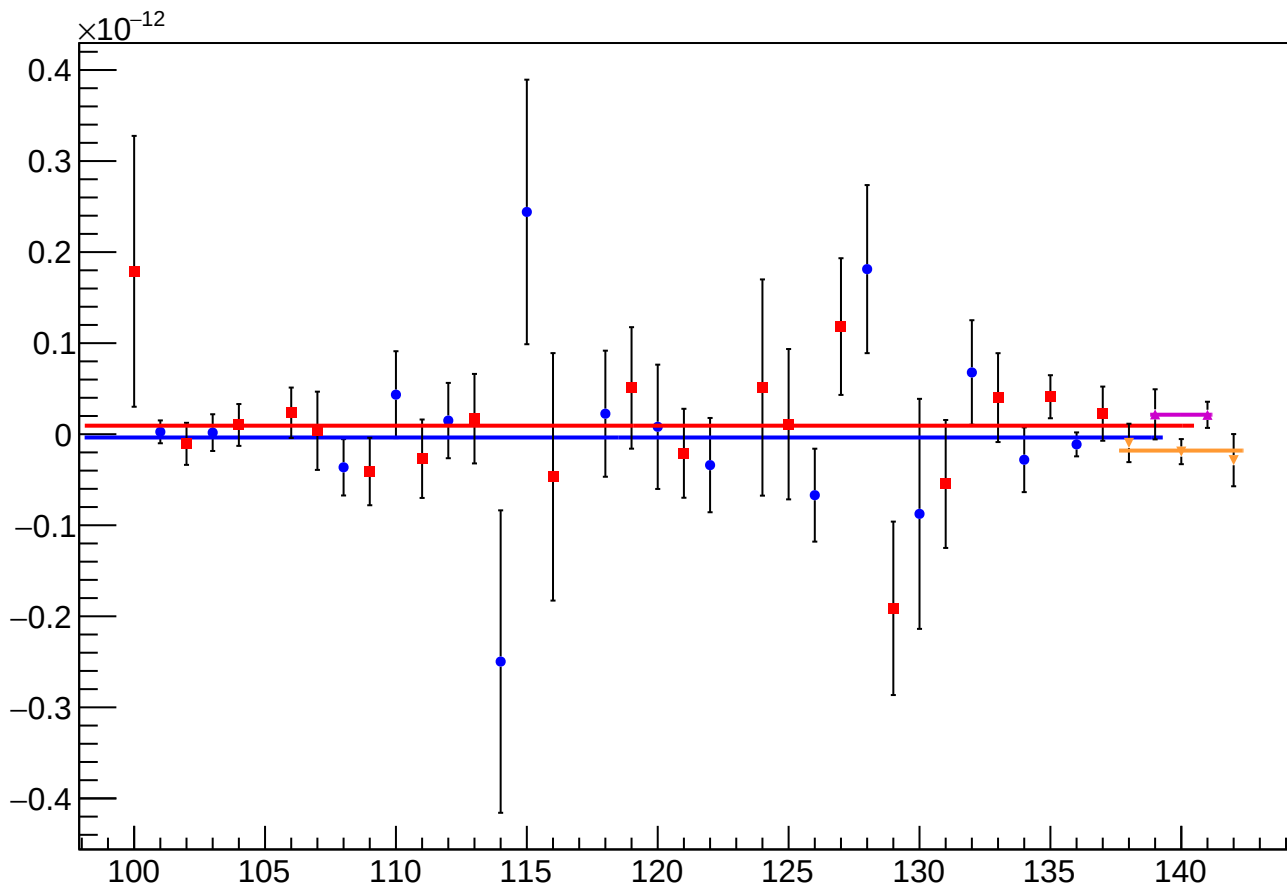
Right: 37.940+/-0.008 χ^2/NDF : 3691915.1/34

In: 41.319+/-0.011 χ^2/NDF : 1848044.9/17

Out: 39.085+/-0.010 χ^2/NDF : 2517220.1/21

All: 40.133+/-0.007 χ^2/NDF : 4388836.4/39

asym_sam6_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 15.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 5.9/4

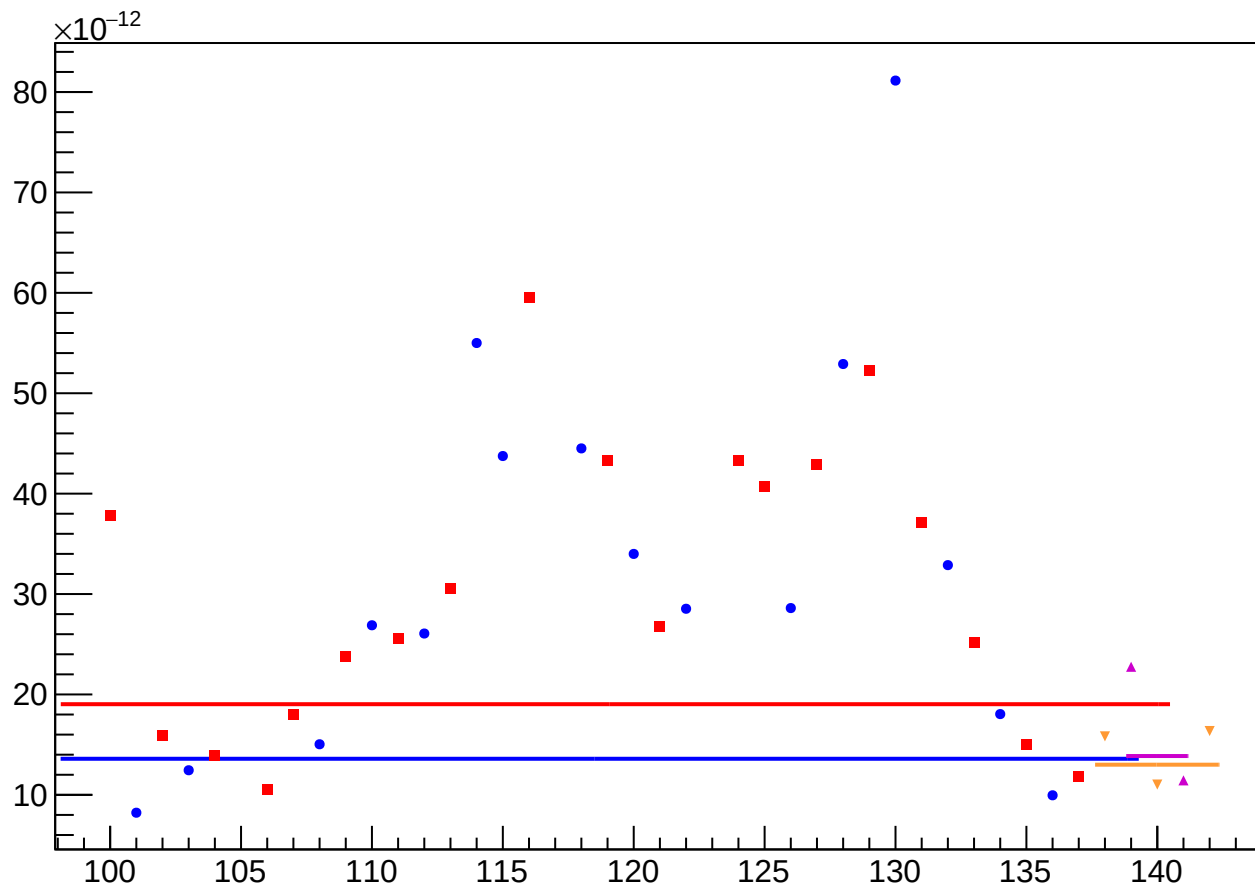
Right: 0.000+/-0.000 χ^2/NDF : 33.6/34

In: 0.000+/-0.000 χ^2/NDF : 19.5/17

Out: -0.000+/-0.000 χ^2/NDF : 19.8/21

All: 0.000+/-0.000 χ^2/NDF : 39.6/39

asym_sam6_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3187097.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :104331.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2049385.6/18

Left In: 0.000+/-0.000 χ^2/NDF :265619.2/1

Left: 0.000+/-0.000 χ^2/NDF : 375322.8/4

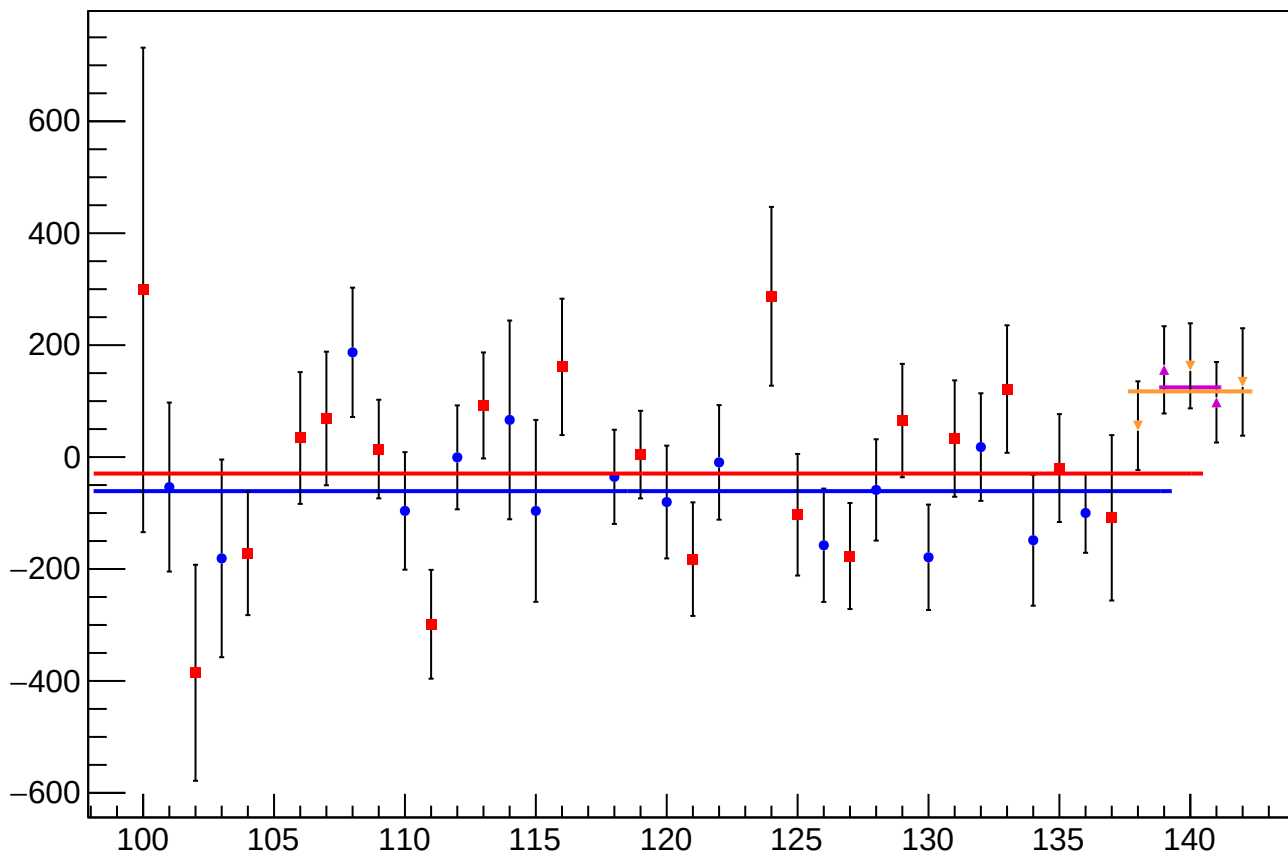
Right: 0.000+/-0.000 χ^2/NDF : 5674807.3/34

In: 0.000+/-0.000 χ^2/NDF :3453410.5/17

Out: 0.000+/-0.000 χ^2/NDF :2521743.9/21

All: 0.000+/-0.000 χ^2/NDF : 6159967.4/39

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -60.846 ± 26.054 $\chi^2/\text{NDF}: 10.6/15$

Left Out: 117.338 ± 47.635 $\chi^2/\text{NDF}: 1.0/2$

Right Out: -29.453 ± 25.105 $\chi^2/\text{NDF}: 31.2/18$

Left In: 124.572 ± 52.868 $\chi^2/\text{NDF}: 0.3/1$

Left: 120.580 ± 35.389 $\chi^2/\text{NDF}: 1.3/4$

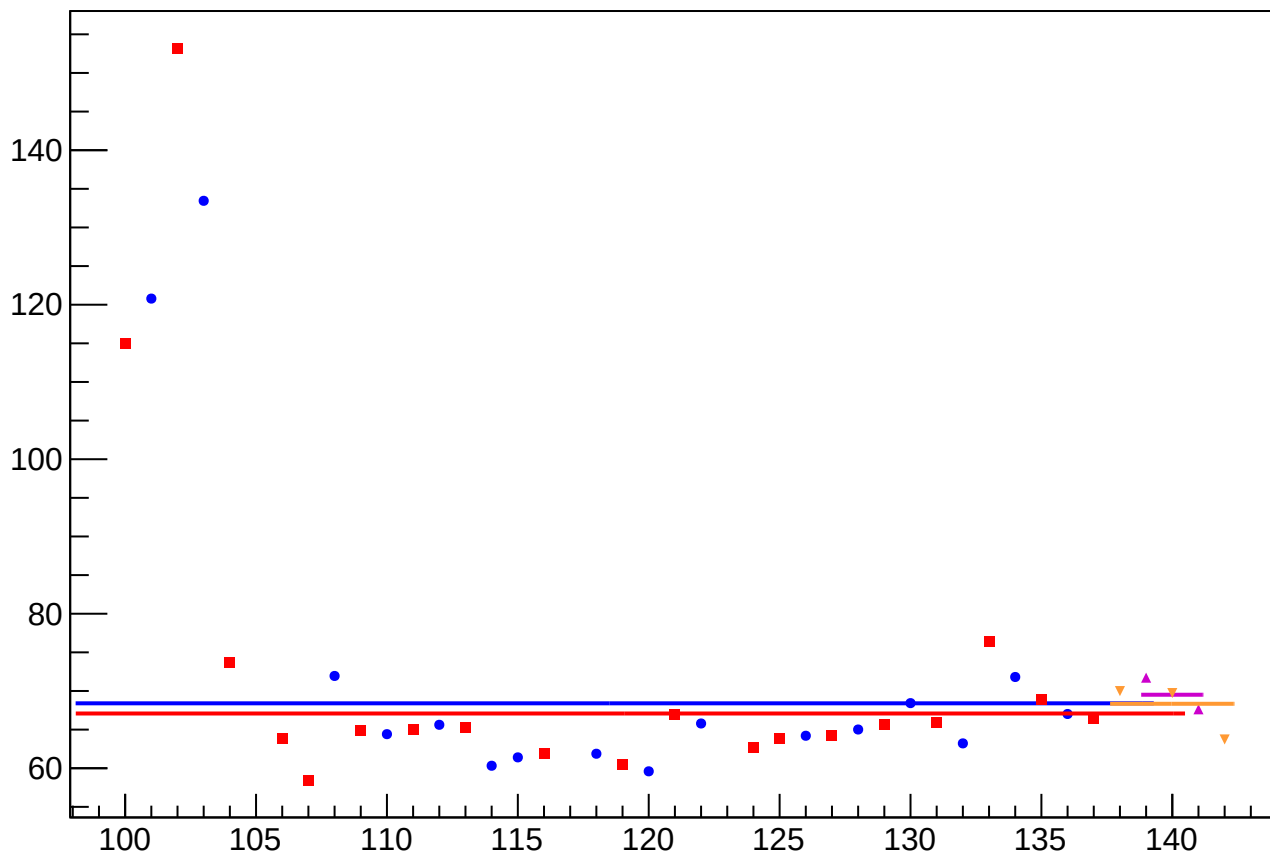
Right: -44.568 ± 18.078 $\chi^2/\text{NDF}: 42.5/34$

In: -24.615 ± 23.370 $\chi^2/\text{NDF}: 20.8/17$

Out: 2.457 ± 22.210 $\chi^2/\text{NDF}: 39.6/21$

All: -10.390 ± 16.099 $\chi^2/\text{NDF}: 61.1/39$

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 68.403 $\pm$ 0.018 χ^2 /NDF: 569557.5/15

Left Out: 68.342 $\pm$ 0.034 χ^2 /NDF: 6150.8/2

Right Out: 67.086 $\pm$ 0.018 χ^2 /NDF: 481815.1/18

Left In: 69.513 $\pm$ 0.037 χ^2 /NDF: 2978.5/1

Left: 68.867 $\pm$ 0.025 χ^2 /NDF: 9670.8/4

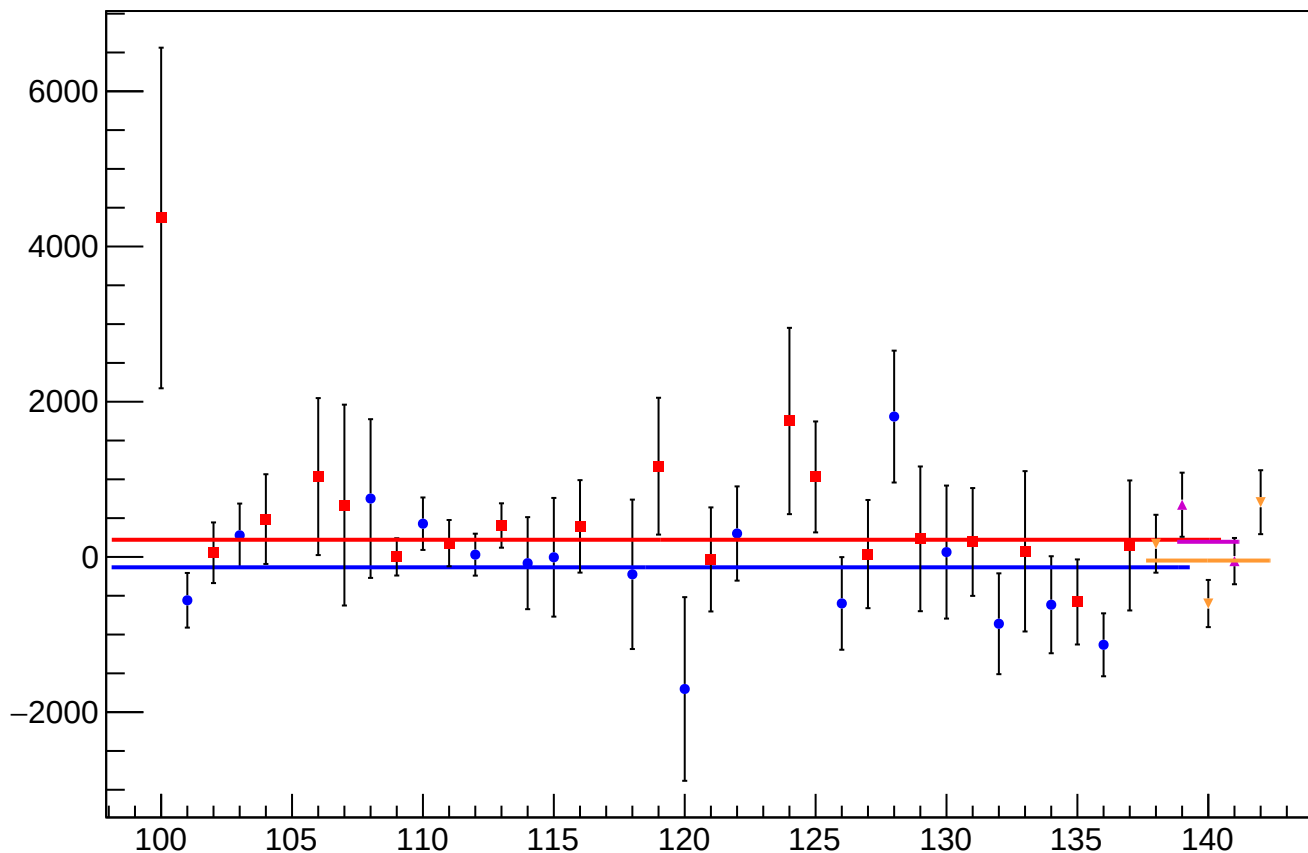
Right: 67.720 $\pm$ 0.013 χ^2 /NDF: 1054024.8/34

In: 68.620 $\pm$ 0.017 χ^2 /NDF: 573245.1/17

Out: 67.359 $\pm$ 0.016 χ^2 /NDF: 489054.8/21

All: 67.957 $\pm$ 0.011 χ^2 /NDF: 1065360.9/39

asym_sam7_reg_correction_mean vs Slug, Sign Corrected



Right In: -133.590+/-125.904 χ^2/NDF : 22.5/15

Left Out: -46.565+/-204.536 χ^2/NDF : 7.0/2

Right Out: 221.324+/-117.783 χ^2/NDF : 12.5/18

Left In: 195.127+/-241.776 χ^2/NDF : 2.0/1

Left: 54.253+/-156.154 χ^2/NDF : 9.6/4

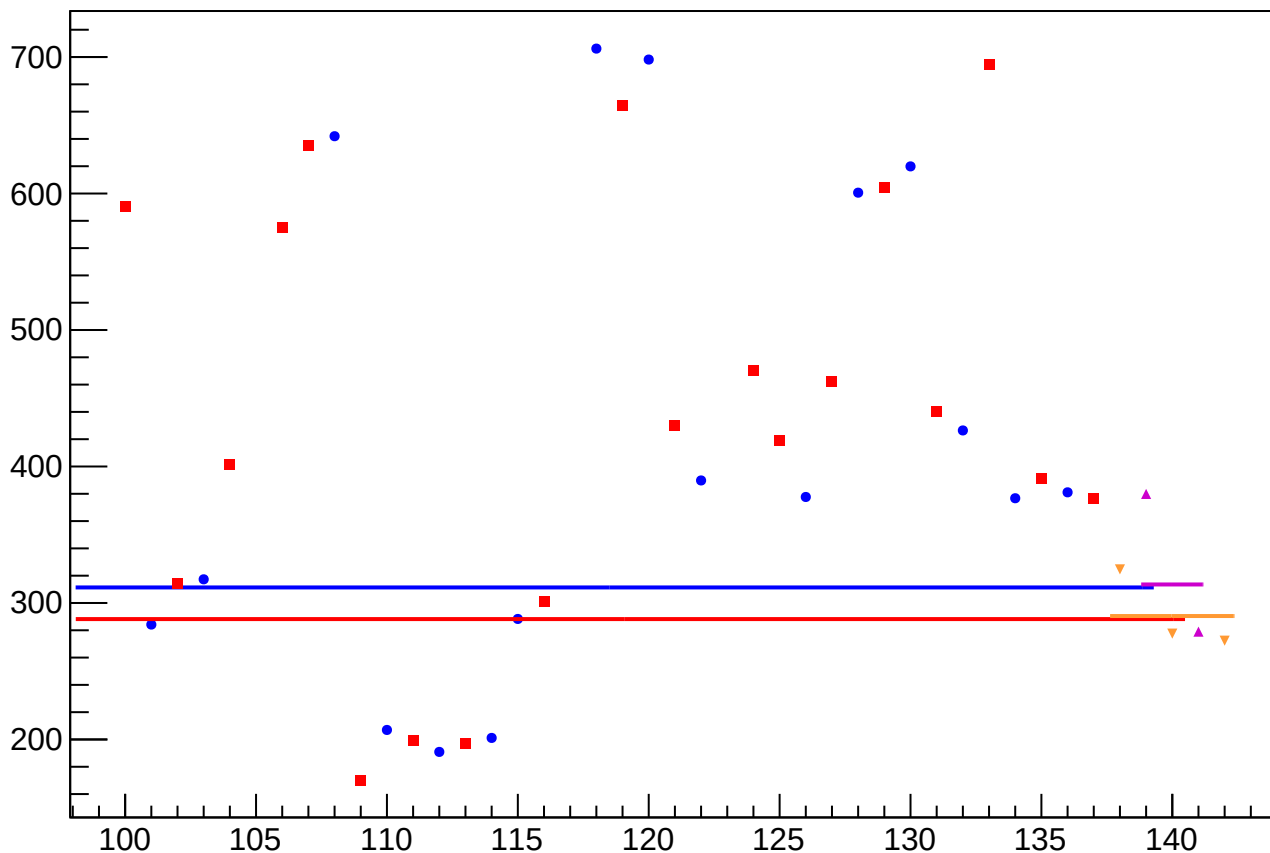
Right: 55.682+/-86.013 χ^2/NDF : 39.2/34

In: -63.466+/-111.670 χ^2/NDF : 26.0/17

Out: 154.612+/-102.069 χ^2/NDF : 20.8/21

All: 55.349+/-75.340 χ^2/NDF : 48.9/39

asym_sam7_reg_correction_rms vs Slug, Sign Corrected



Right In: 311.386+/-0.089 χ^2/NDF : 2123797.6/15

Left Out: 290.437+/-0.145 χ^2/NDF : 24245.3/2

Right Out: 288.205+/-0.083 χ^2/NDF : 2715380.6/18

Left In: 313.565+/-0.171 χ^2/NDF : 78465.5/1

Left: 300.084+/-0.110 χ^2/NDF : 113378.0/4

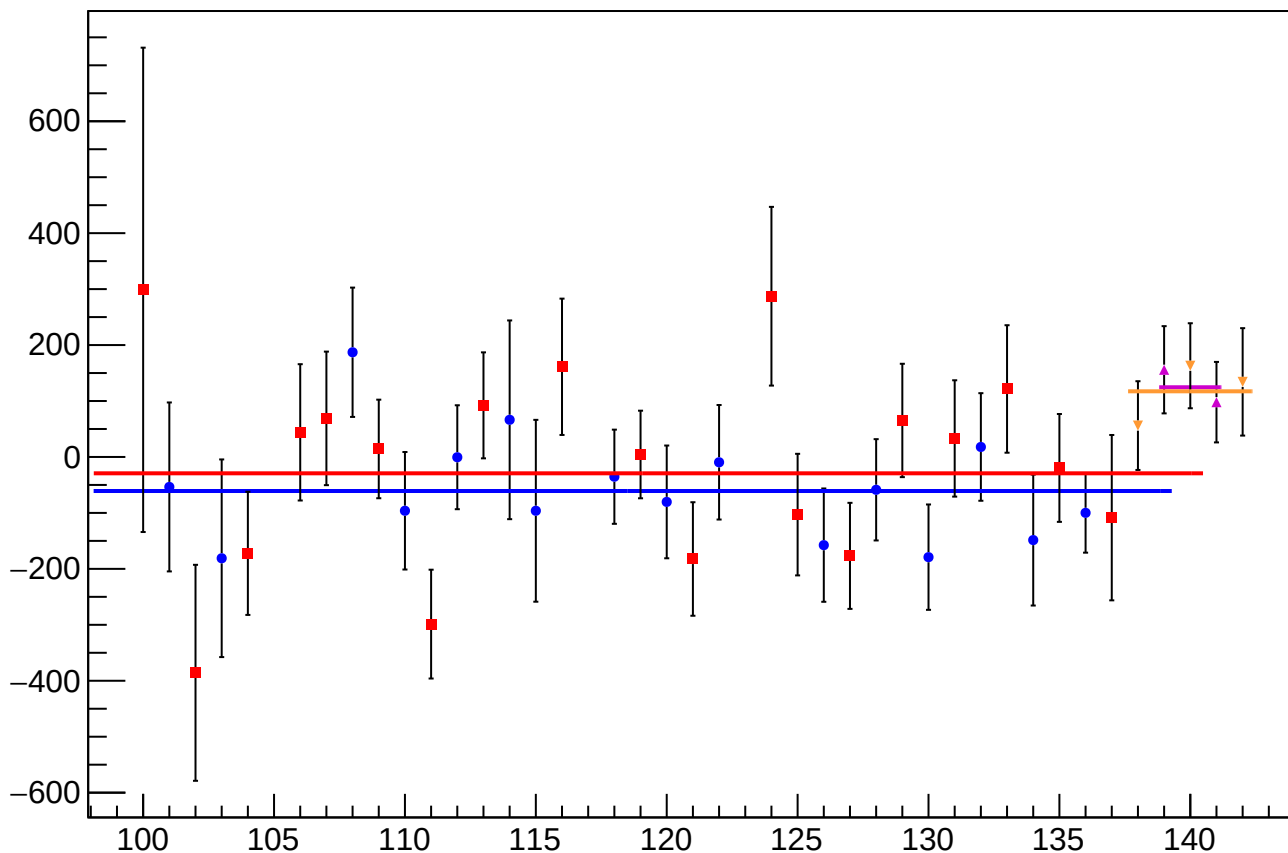
Right: 299.024+/-0.061 χ^2/NDF : 4875335.3/34

In: 311.851+/-0.079 χ^2/NDF : 2202390.9/17

Out: 288.761+/-0.072 χ^2/NDF : 2739804.7/21

All: 299.271+/-0.053 χ^2/NDF : 4988784.1/39

cor_asym_sam7_mean vs Slug, Sign Corrected



Right In: -60.848 $\pm$ 26.054 χ^2 /NDF: 10.6/15

Left Out: 117.335 $\pm$ 47.635 χ^2 /NDF:1.0/2

Right Out: -29.221 $\pm$ 25.143 χ^2 /NDF: 31.3/18

Left In: 124.573 $\pm$ 52.868 χ^2 /NDF:0.3/1

Left: 120.578 $\pm$ 35.389 χ^2 /NDF: 1.3/4

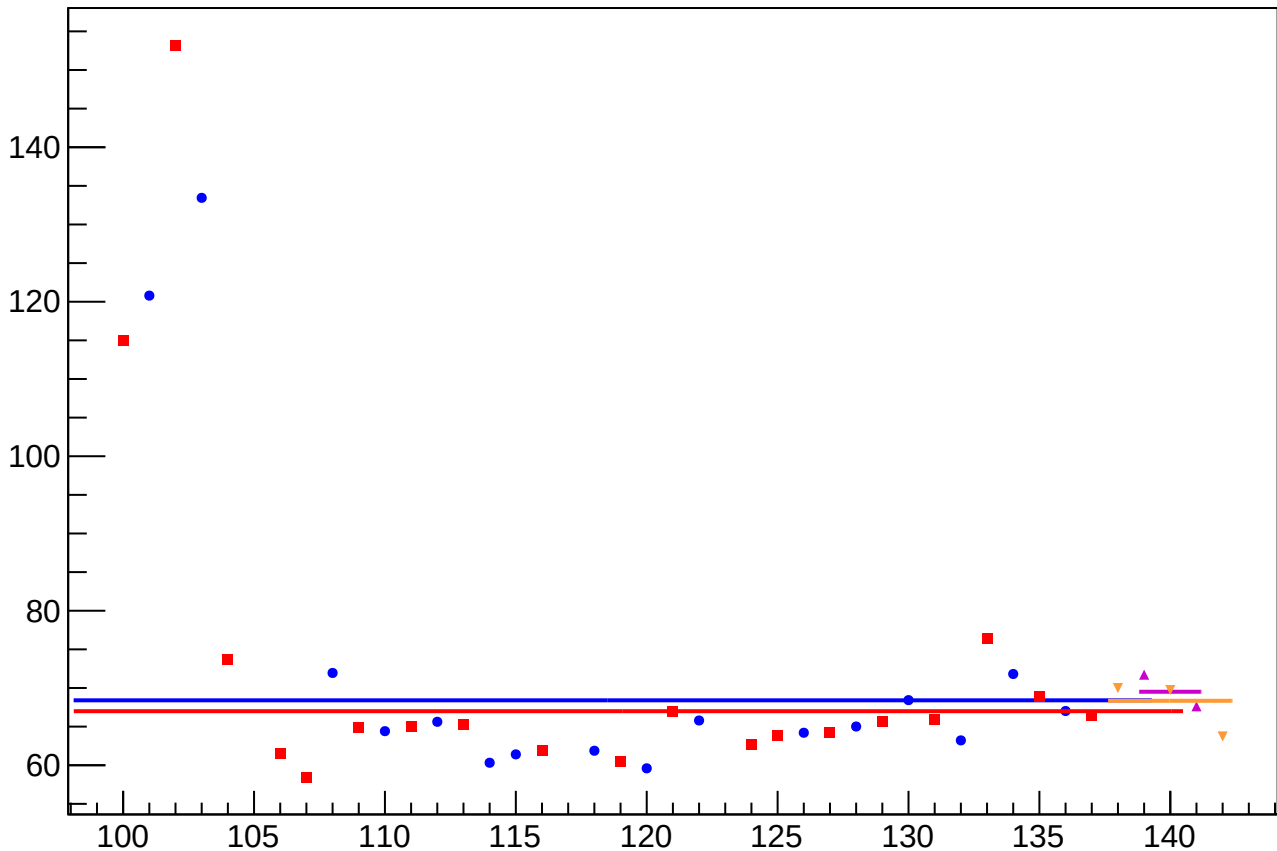
Right: -44.472 $\pm$ 18.092 χ^2 /NDF: 42.6/34

In: -24.617 $\pm$ 23.370 χ^2 /NDF:20.8/17

Out: 2.713 $\pm$ 22.236 χ^2 /NDF:39.7/21

All: -10.272 $\pm$ 16.109 χ^2 /NDF: 61.2/39

cor_asym_sam7_rms vs Slug, Sign Corrected



Right In: 68.403 $\pm$ 0.018 χ^2 /NDF: 569557.9/15

Left Out: 68.342 $\pm$ 0.034 χ^2 /NDF: 6150.8/2

Right Out: 66.995 $\pm$ 0.018 χ^2 /NDF: 484487.7/18

Left In: 69.513 $\pm$ 0.037 χ^2 /NDF: 2978.5/1

Left: 68.867 $\pm$ 0.025 χ^2 /NDF: 9670.8/4

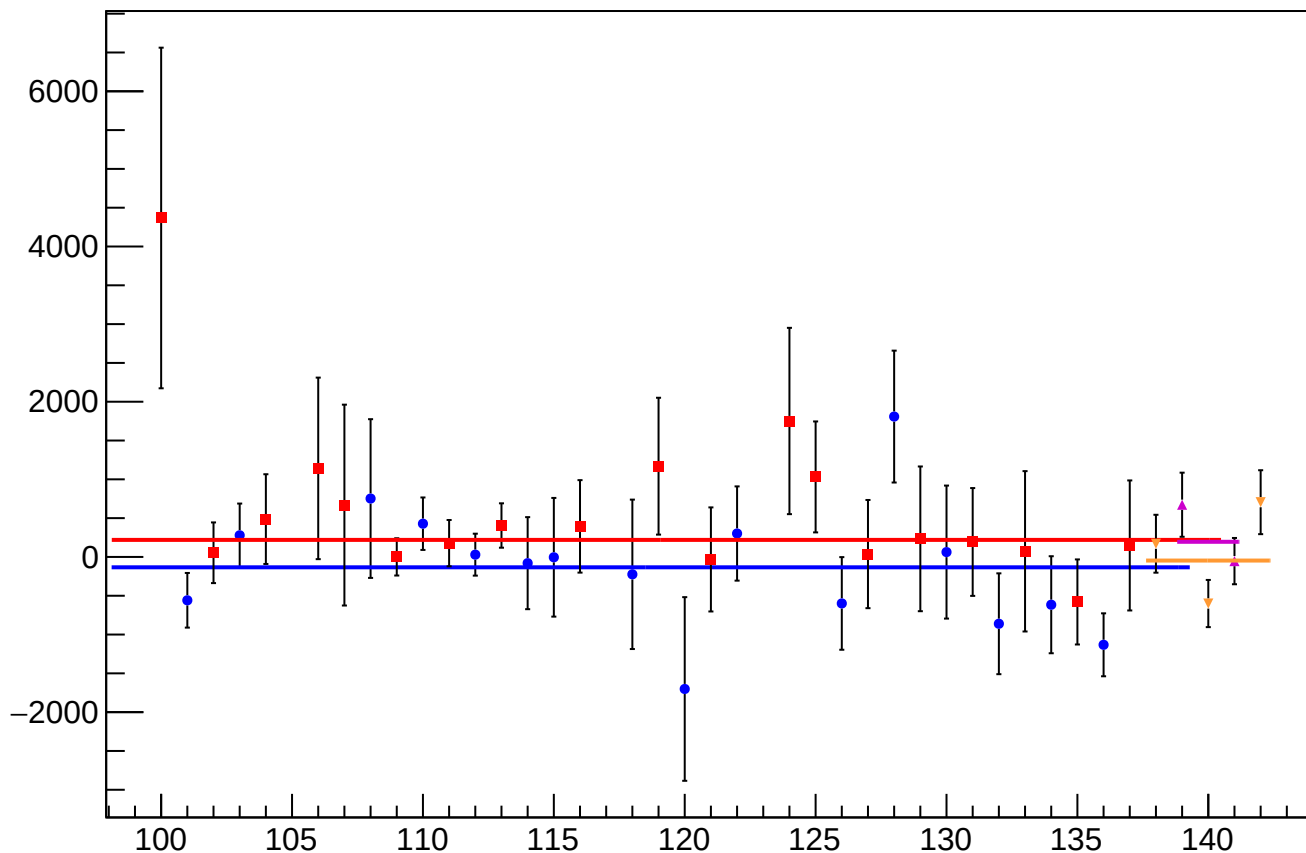
Right: 67.674 $\pm$ 0.013 χ^2 /NDF: 1057072.9/34

In: 68.620 $\pm$ 0.017 χ^2 /NDF: 573245.5/17

Out: 67.288 $\pm$ 0.016 χ^2 /NDF: 491890.2/21

All: 67.921 $\pm$ 0.011 χ^2 /NDF: 1068545.3/39

asym_sam7_cor_correction_mean vs Slug, Sign Corrected



Right In: -133.587+/-125.904 χ^2/NDF : 22.5/15

Left Out: -46.562+/-204.536 χ^2/NDF : 7.0/2

Right Out: 219.615+/-117.989 χ^2/NDF : 12.5/18

Left In: 195.122+/-241.777 χ^2/NDF : 2.0/1

Left: 54.253+/-156.154 χ^2/NDF : 9.6/4

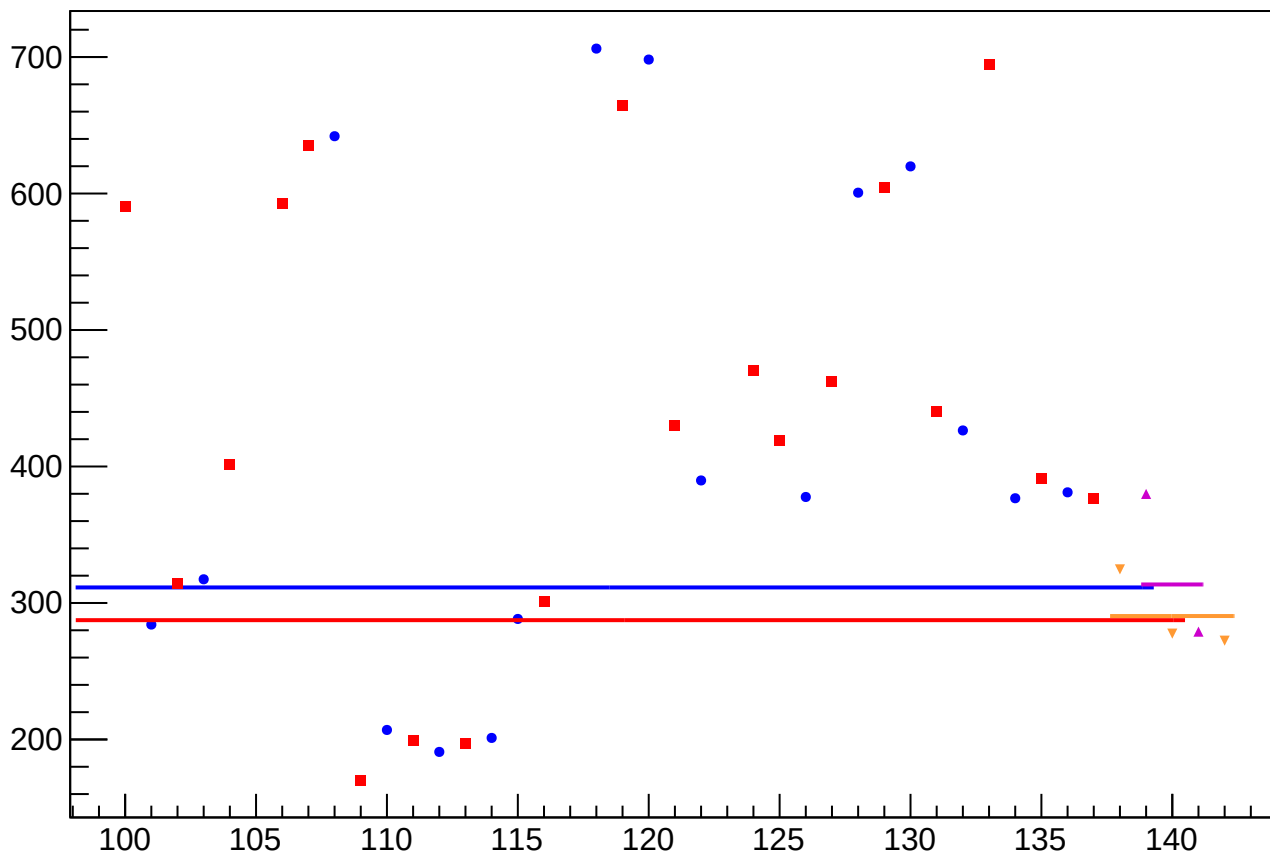
Right: 54.464+/-86.093 χ^2/NDF : 39.2/34

In: -63.464+/-111.670 χ^2/NDF : 26.0/17

Out: 153.154+/-102.203 χ^2/NDF : 20.8/21

All: 54.415+/-75.394 χ^2/NDF : 48.8/39

asym_sam7_cor_correction_rms vs Slug, Sign Corrected



Right In: 311.388+/-0.089 χ^2/NDF : 2123799.0/15

Left Out: 290.436+/-0.145 χ^2/NDF : 24244.3/2

Right Out: 287.413+/-0.083 χ^2/NDF : 2690258.0/18

Left In: 313.566+/-0.171 χ^2/NDF : 78464.3/1

Left: 300.084+/-0.110 χ^2/NDF : 113377.2/4

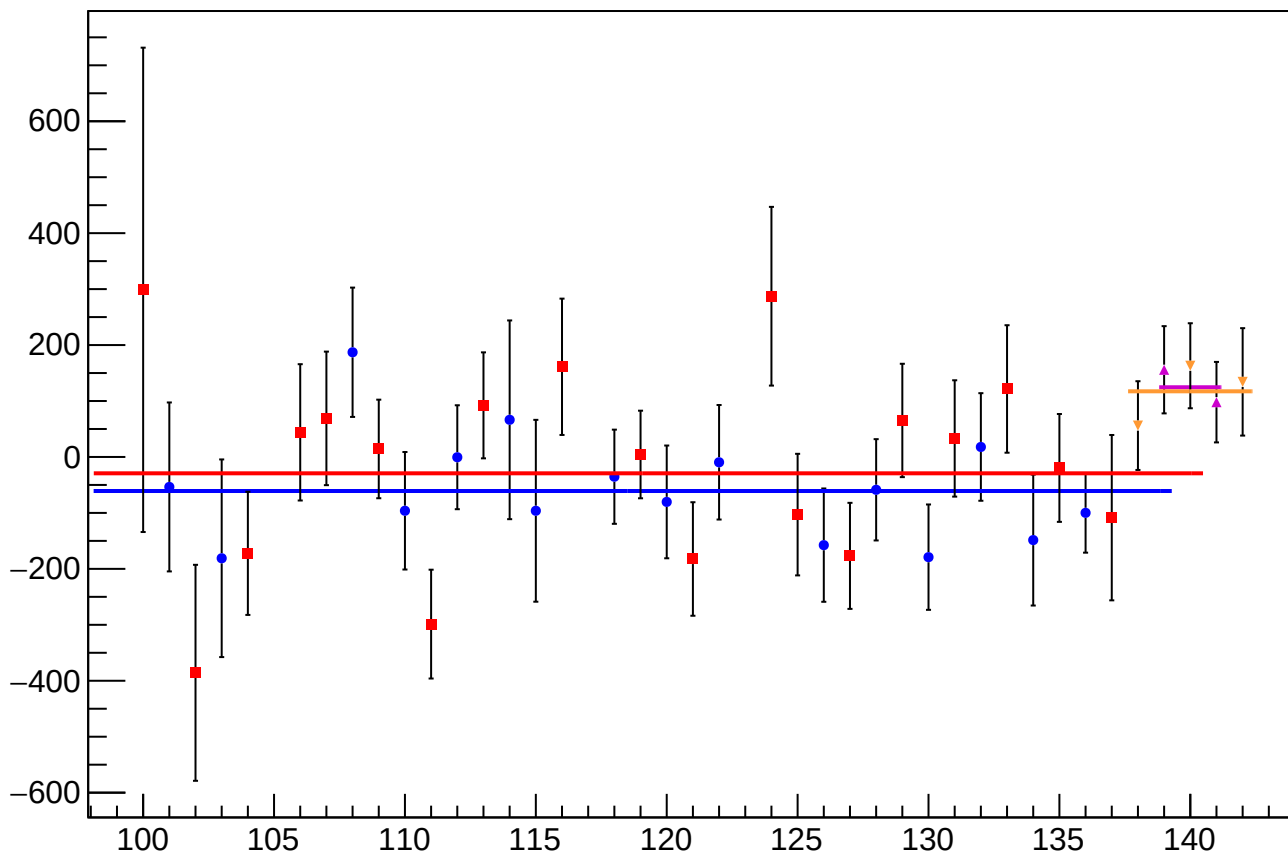
Right: 298.623+/-0.061 χ^2/NDF : 4852668.8/34

In: 311.853+/-0.079 χ^2/NDF : 2202391.0/17

Out: 288.168+/-0.072 χ^2/NDF : 2714830.1/21

All: 298.964+/-0.053 χ^2/NDF : 4966180.2/39

eigen_cor_asym_sam7_mean vs Slug, Sign Corrected



Right In: -60.848 ± 26.054 $\chi^2/\text{NDF}: 10.6/15$

Left Out: 117.335 ± 47.635 $\chi^2/\text{NDF}: 1.0/2$

Right Out: -29.221 ± 25.143 $\chi^2/\text{NDF}: 31.3/18$

Left In: 124.573 ± 52.868 $\chi^2/\text{NDF}: 0.3/1$

Left: 120.578 ± 35.389 $\chi^2/\text{NDF}: 1.3/4$

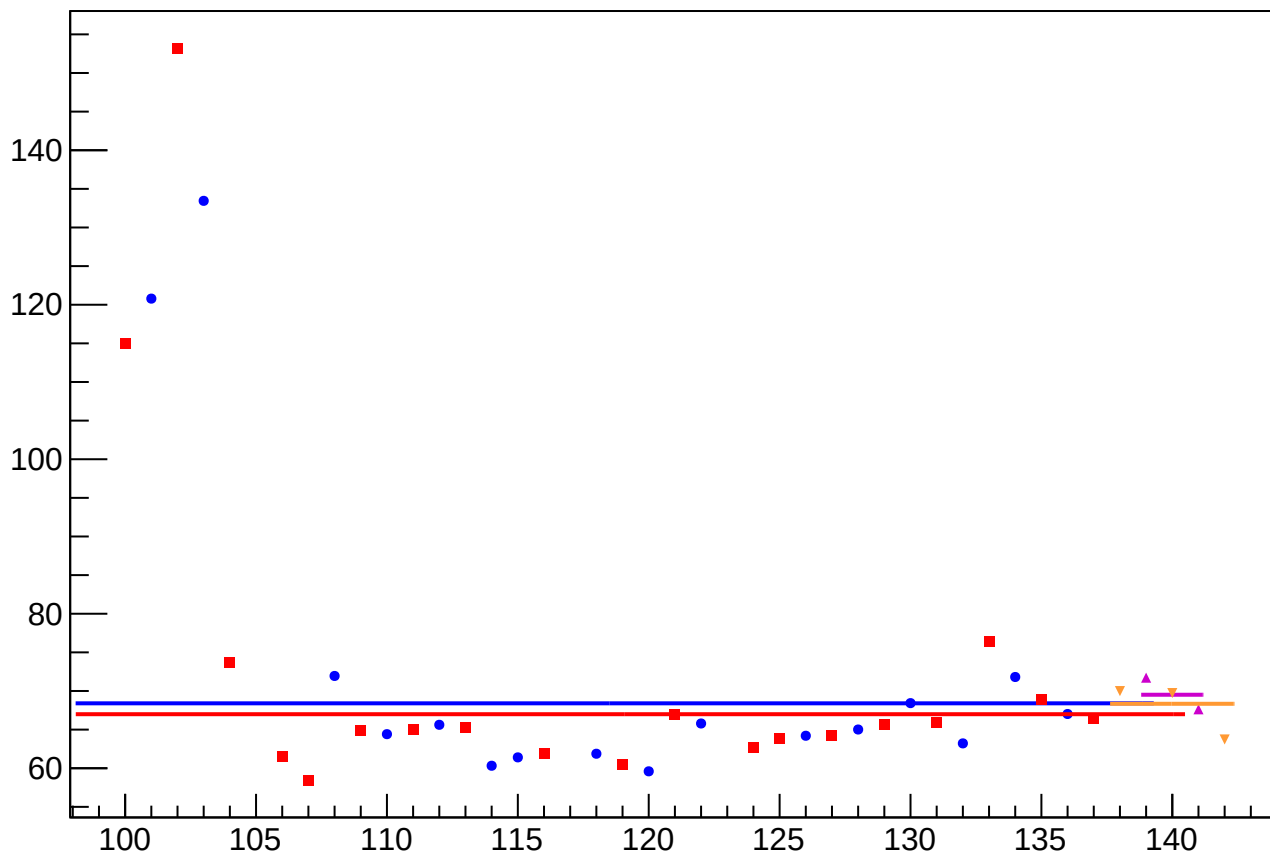
Right: -44.472 ± 18.092 $\chi^2/\text{NDF}: 42.6/34$

In: -24.617 ± 23.370 $\chi^2/\text{NDF}: 20.8/17$

Out: 2.713 ± 22.236 $\chi^2/\text{NDF}: 39.7/21$

All: -10.272 ± 16.109 $\chi^2/\text{NDF}: 61.2/39$

eigen_cor_asym_sam7_rms vs Slug, Sign Corrected



Right In: 68.403 $\pm$ 0.018 χ^2 /NDF: 569557.9/15

Left Out: 68.342 $\pm$ 0.034 χ^2 /NDF: 6150.8/2

Right Out: 66.995 $\pm$ 0.018 χ^2 /NDF: 484487.7/18

Left In: 69.513 $\pm$ 0.037 χ^2 /NDF: 2978.5/1

Left: 68.867 $\pm$ 0.025 χ^2 /NDF: 9670.8/4

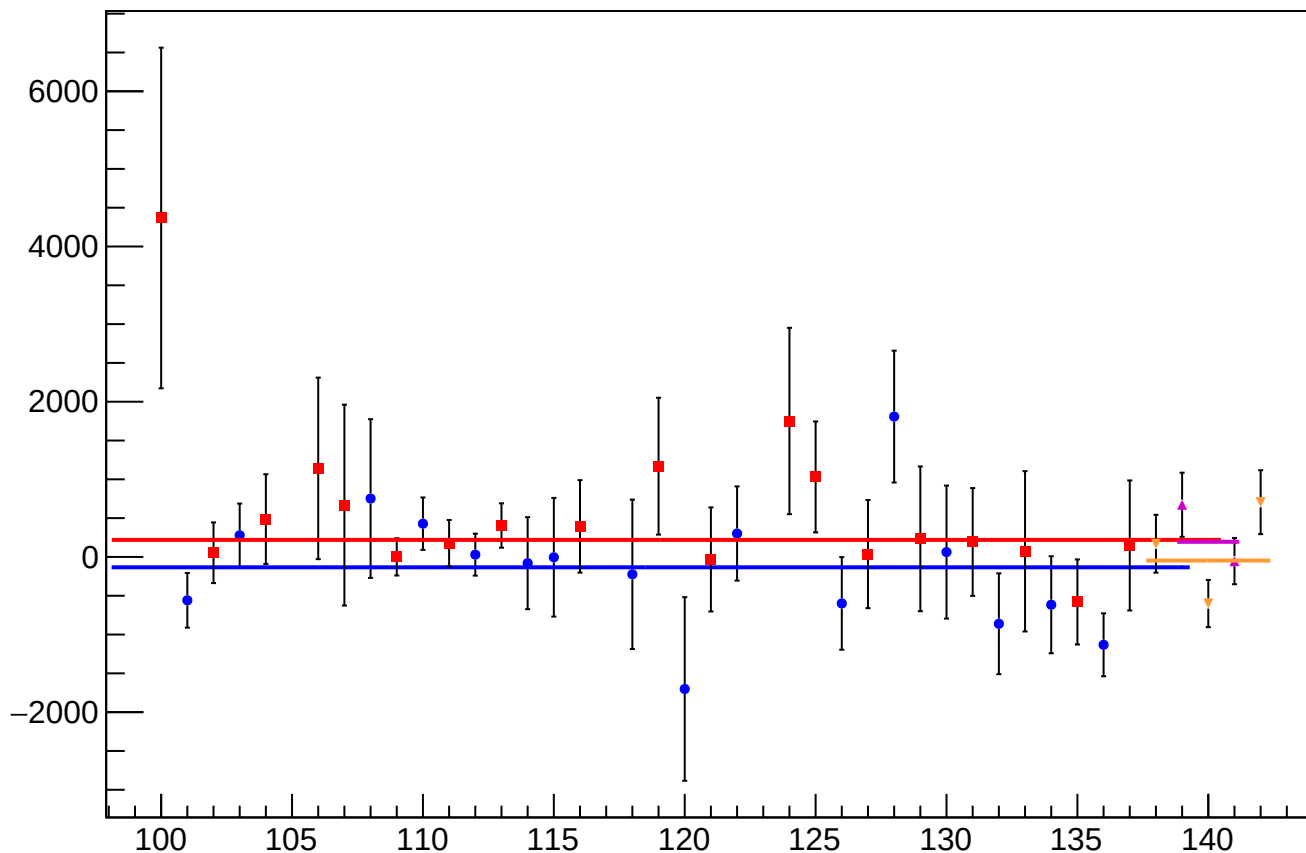
Right: 67.674 $\pm$ 0.013 χ^2 /NDF: 1057072.9/34

In: 68.620 $\pm$ 0.017 χ^2 /NDF: 573245.5/17

Out: 67.288 $\pm$ 0.016 χ^2 /NDF: 491890.2/21

All: 67.921 $\pm$ 0.011 χ^2 /NDF: 1068545.3/39

asym_sam7_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -133.587+/-125.904 χ^2/NDF : 22.5/15

Left Out: -46.562+/-204.536 χ^2/NDF : 7.0/2

Right Out: 219.615+/-117.989 χ^2/NDF : 12.5/18

Left In: 195.122+/-241.777 χ^2/NDF : 2.0/1

Left: 54.253+/-156.154 χ^2/NDF : 9.6/4

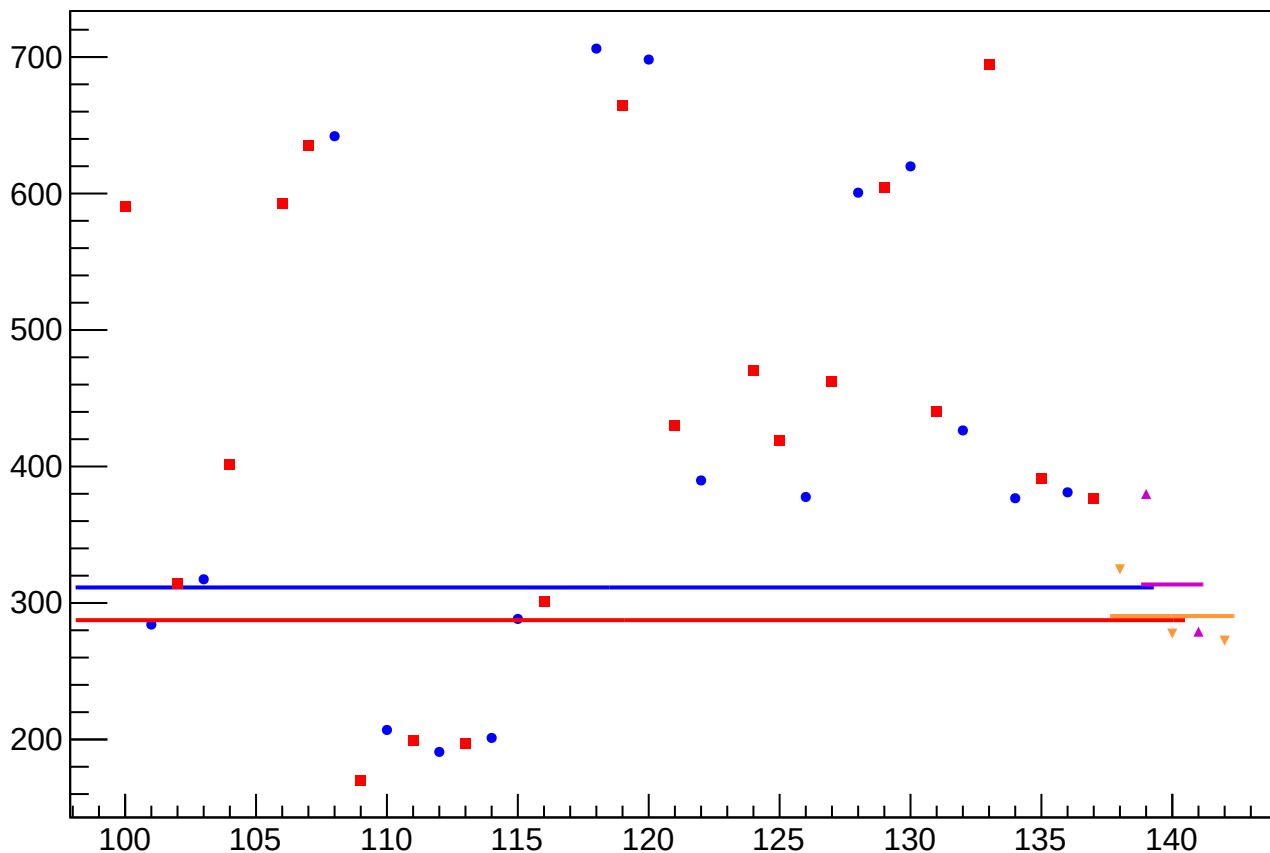
Right: 54.464+/-86.093 χ^2/NDF : 39.2/34

In: -63.464+/-111.670 χ^2/NDF : 26.0/17

Out: 153.154+/-102.203 χ^2/NDF : 20.8/21

All: 54.415+/-75.394 χ^2/NDF : 48.8/39

asym_sam7_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 311.388+/-0.089 χ^2/NDF : 2123799.0/15

Left Out: 290.436+/-0.145 χ^2/NDF : 24244.3/2

Right Out: 287.413+/-0.083 χ^2/NDF : 2690258.0/18

Left In: 313.566+/-0.171 χ^2/NDF : 78464.3/1

Left: 300.084+/-0.110 χ^2/NDF : 113377.2/4

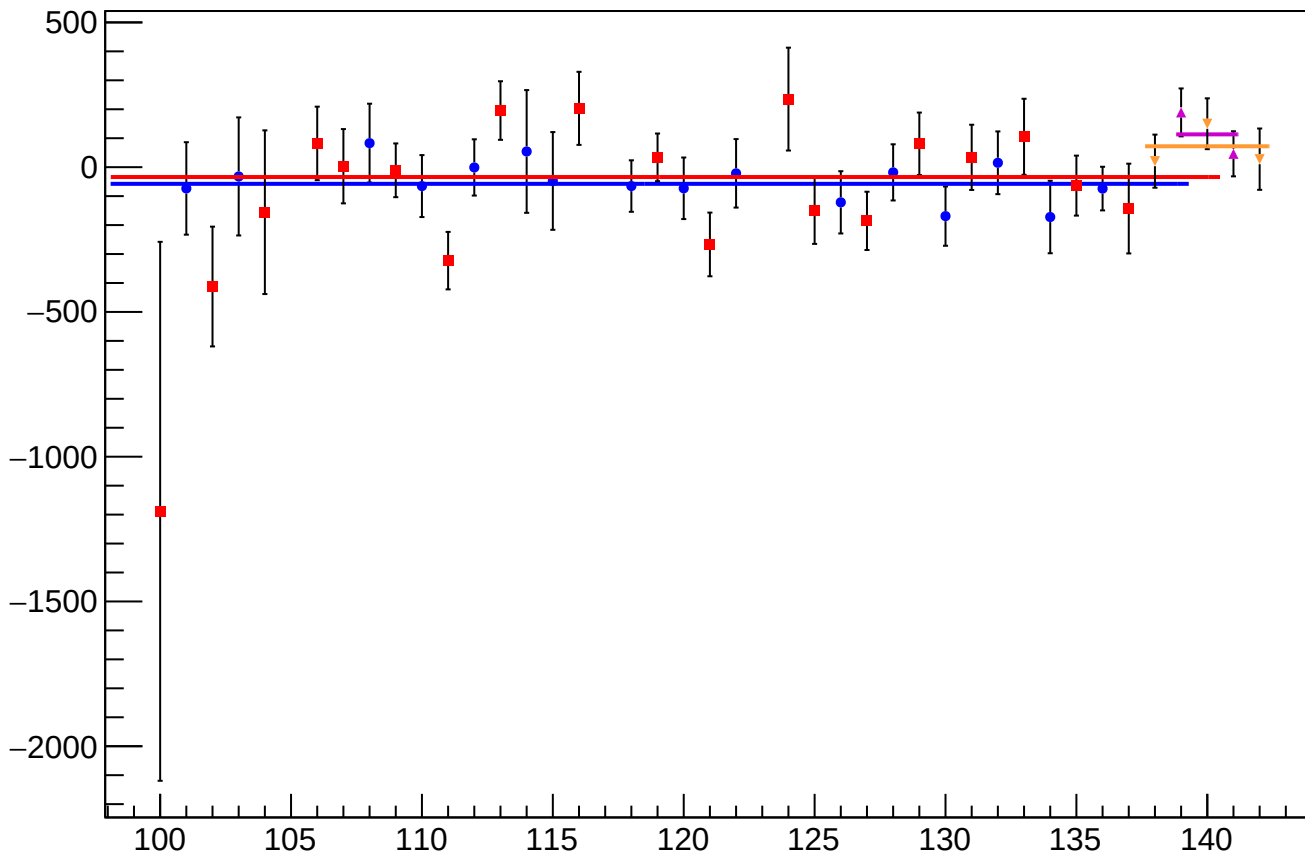
Right: 298.623+/-0.061 χ^2/NDF : 4852668.8/34

In: 311.853+/-0.079 χ^2/NDF : 2202391.0/17

Out: 288.168+/-0.072 χ^2/NDF : 2714830.1/21

All: 298.964+/-0.053 χ^2/NDF : 4966180.2/39

dit_asym_sam7_mean vs Slug, Sign Corrected



Right In: -57.533 $\pm$ 28.087 χ^2/NDF : 4.9/15

Left Out: 72.195 $\pm$ 54.413 χ^2/NDF : 1.3/2

Right Out: -34.033 $\pm$ 27.398 χ^2/NDF : 37.1/18

Left In: 113.294 $\pm$ 56.710 χ^2/NDF : 1.6/1

Left: 91.895 $\pm$ 39.263 χ^2/NDF : 3.1/4

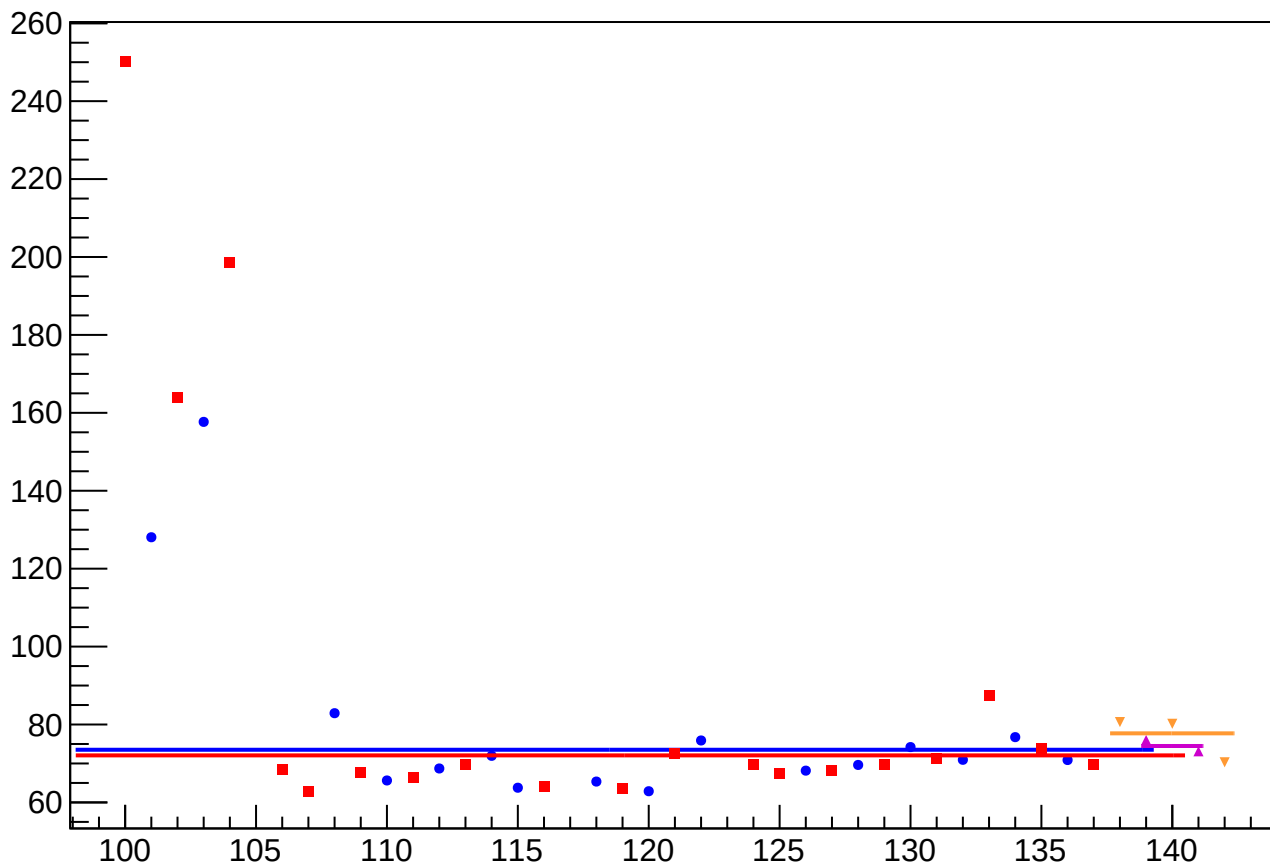
Right: -45.491 $\pm$ 19.612 χ^2/NDF : 42.4/34

In: -23.884 $\pm$ 25.169 χ^2/NDF : 13.8/17

Out: -12.548 $\pm$ 24.471 χ^2/NDF : 41.5/21

All: -18.057 $\pm$ 17.545 χ^2/NDF : 55.3/39

dit_asym_sam7_rms vs Slug, Sign Corrected



Right In: 73.519+/-0.020 χ^2/NDF : 656847.5/15

Left Out: 77.730+/-0.038 χ^2/NDF :13399.2/2

Right Out: 72.074+/-0.019 χ^2/NDF : 958495.0/18

Left In: 74.484+/-0.040 χ^2/NDF :1299.1/1

Left: 76.174+/-0.028 χ^2/NDF : 18109.5/4

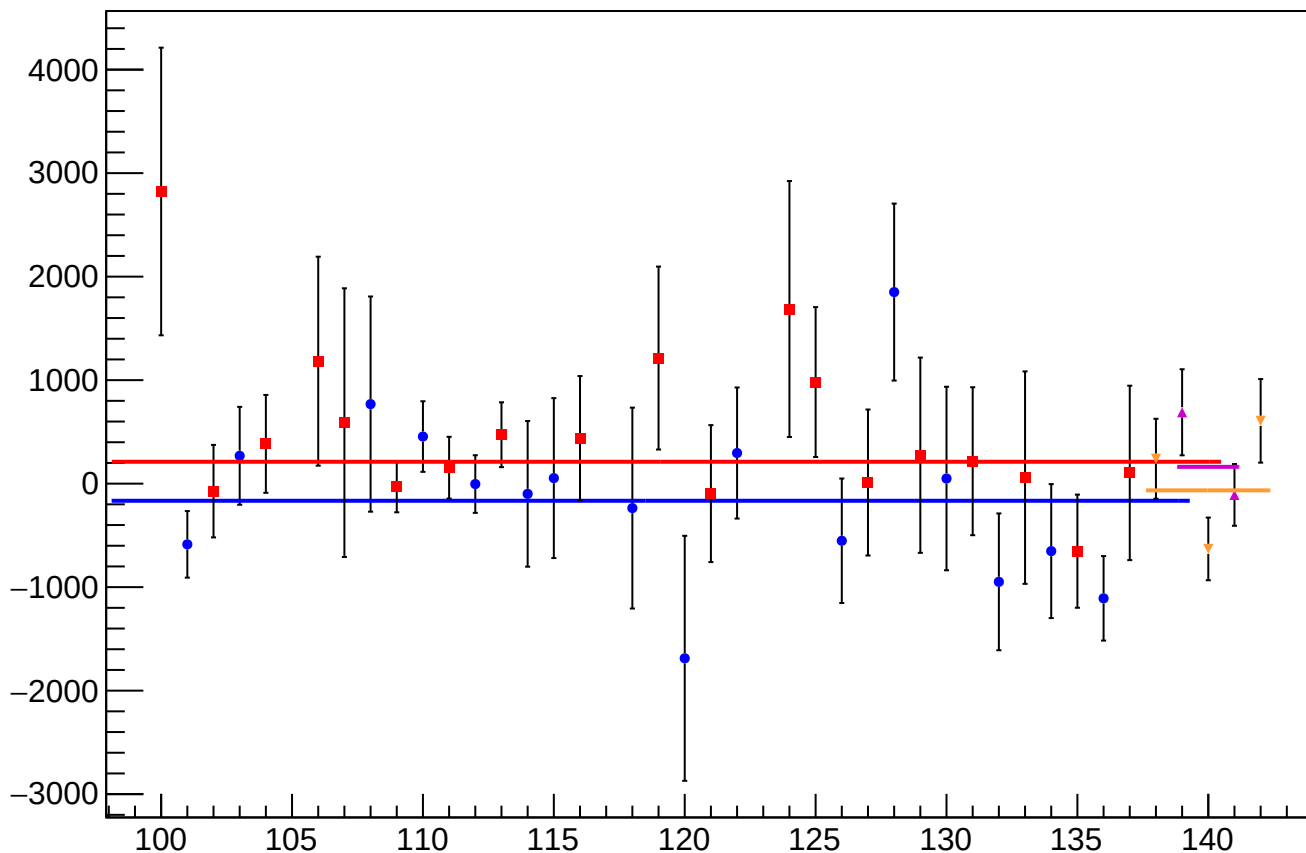
Right: 72.779+/-0.014 χ^2/NDF : 1618055.3/34

In: 73.709+/-0.018 χ^2/NDF :658612.0/17

Out: 73.218+/-0.017 χ^2/NDF :989133.6/21

All: 73.457+/-0.012 χ^2/NDF : 1648137.2/39

asym_sam7_dit_correction_mean vs Slug, Sign Corrected



Right In: -165.500 $\pm$ 128.438 χ^2 /NDF: 22.6/15

Left Out: -65.025 $\pm$ 205.171 χ^2 /NDF:6.9/2

Right Out: 211.347 $\pm$ 120.122 χ^2 /NDF: 13.6/18

Left In: 162.339 $\pm$ 242.342 χ^2 /NDF:2.4/1

Left: 29.901 $\pm$ 156.589 χ^2 /NDF: 9.8/4

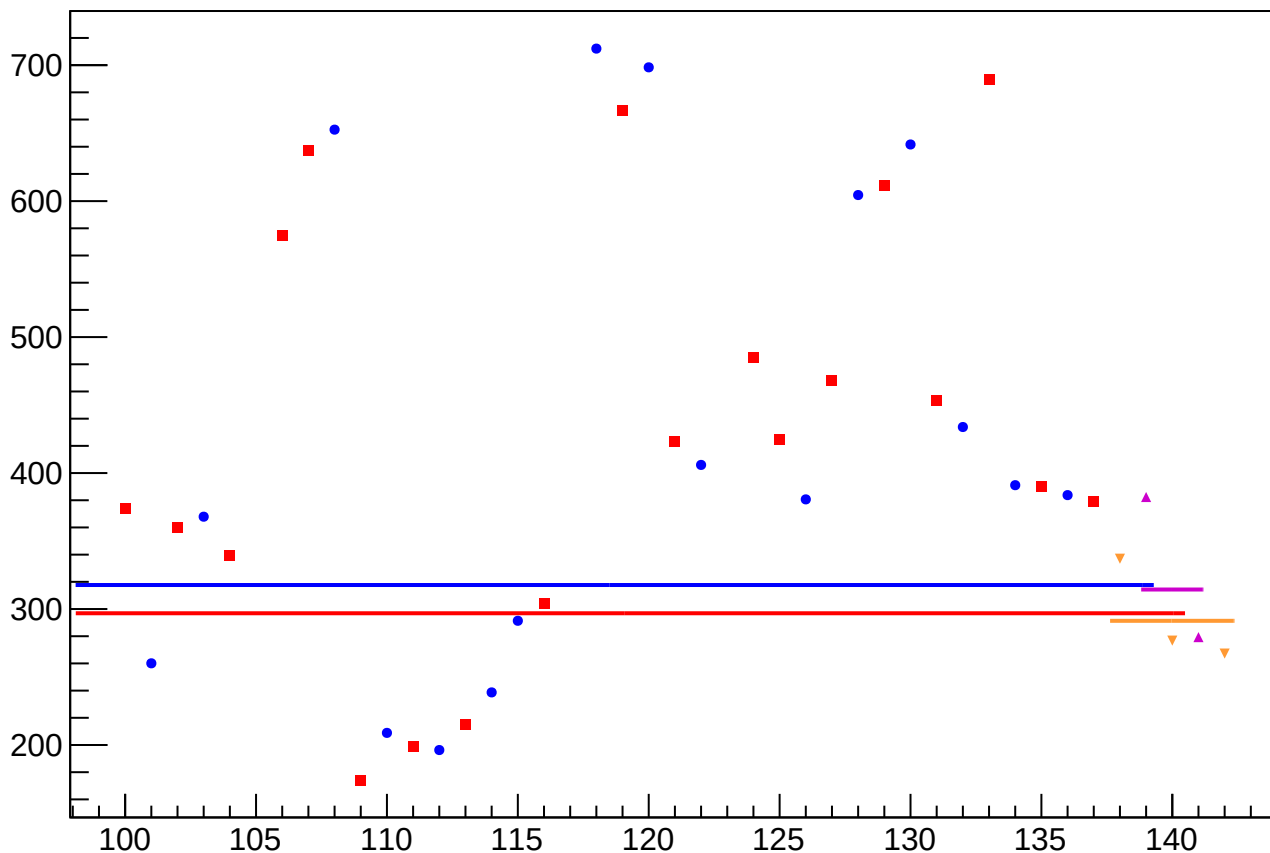
Right: 35.518 $\pm$ 87.732 χ^2 /NDF: 40.8/34

In: -93.608 $\pm$ 113.485 χ^2 /NDF:26.5/17

Out: 140.797 $\pm$ 103.662 χ^2 /NDF:21.8/21

All: 34.176 $\pm$ 76.538 χ^2 /NDF: 50.7/39

asym_sam7_dit_correction_rms vs Slug, Sign Corrected



Right In: 317.664 $\pm$ 0.091 χ^2 /NDF: 2136192.8/15

Left Out: 291.330 $\pm$ 0.145 χ^2 /NDF: 39757.5/2

Right Out: 296.888 $\pm$ 0.085 χ^2 /NDF: 2541040.3/18

Left In: 314.351 $\pm$ 0.171 χ^2 /NDF: 81115.6/1

Left: 300.941 $\pm$ 0.111 χ^2 /NDF: 131385.1/4

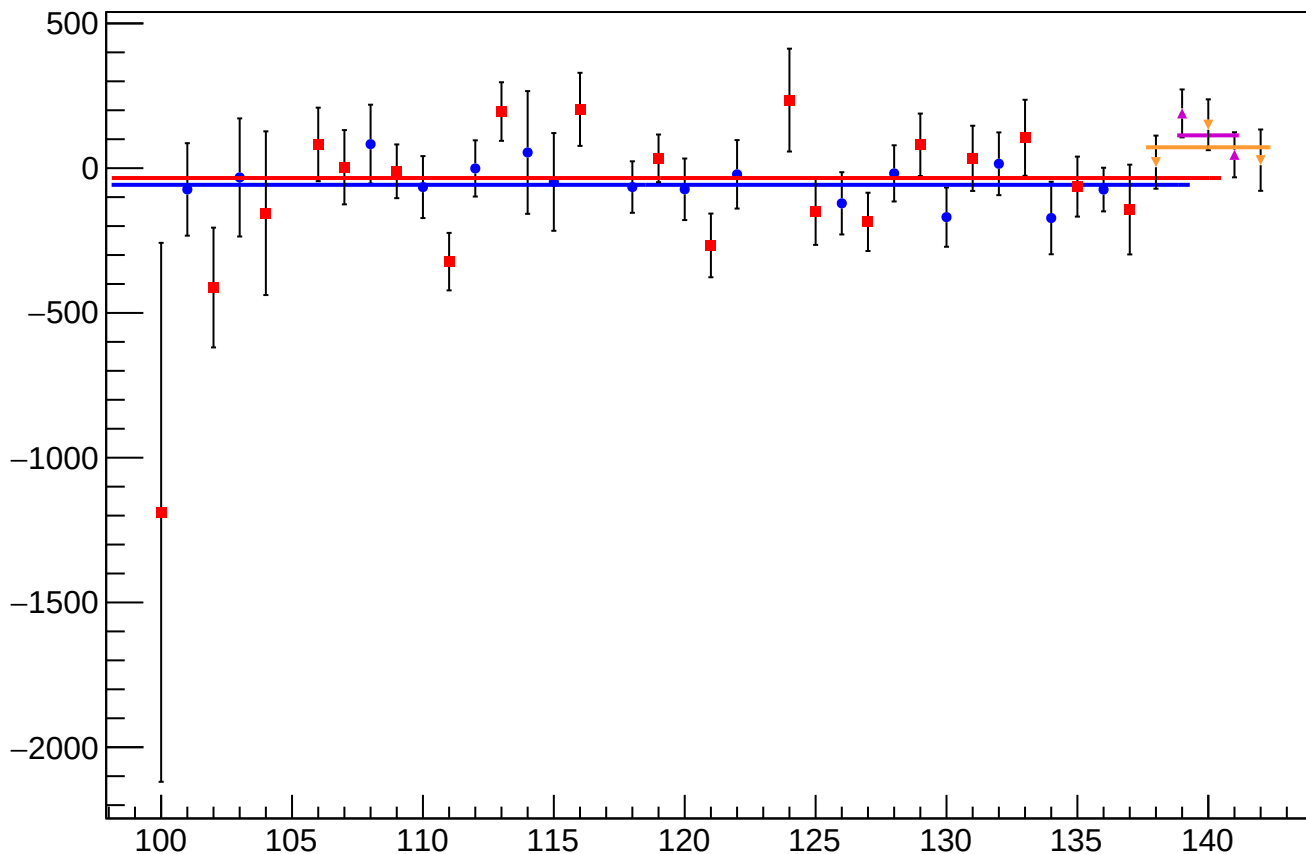
Right: 306.582 $\pm$ 0.062 χ^2 /NDF: 4705147.7/34

In: 316.937 $\pm$ 0.080 χ^2 /NDF: 2217600.2/17

Out: 295.469 $\pm$ 0.073 χ^2 /NDF: 2581890.7/21

All: 305.234 $\pm$ 0.054 χ^2 /NDF: 4838507.7/39

eigen_dit_asym_sam7_mean vs Slug, Sign Corrected



Right In: -57.532 ± 28.087 χ^2/NDF : 4.9/15

Left Out: 72.193 ± 54.413 χ^2/NDF : 1.3/2

Right Out: -34.034 ± 27.398 χ^2/NDF : 37.1/18

Left In: 113.295 ± 56.710 χ^2/NDF : 1.6/1

Left: 91.894 ± 39.263 χ^2/NDF : 3.1/4

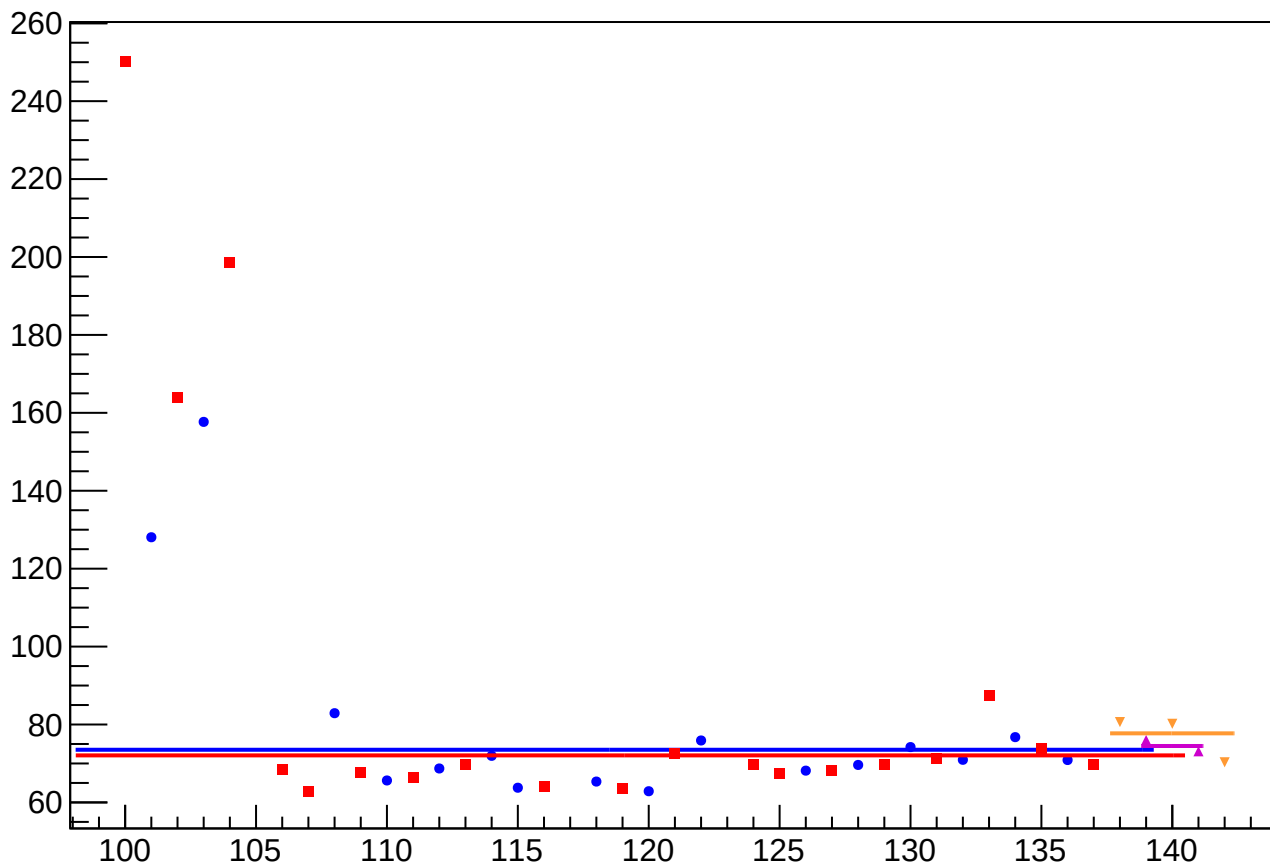
Right: -45.491 ± 19.612 χ^2/NDF : 42.4/34

In: -23.884 ± 25.169 χ^2/NDF : 13.8/17

Out: -12.549 ± 24.471 χ^2/NDF : 41.5/21

All: -18.057 ± 17.545 χ^2/NDF : 55.3/39

eigen_dit_asym_sam7_rms vs Slug, Sign Corrected



Right In: 73.519+/-0.020 χ^2/NDF : 656849.2/15

Left Out: 77.730+/-0.038 χ^2/NDF :13398.7/2

Right Out: 72.074+/-0.019 χ^2/NDF : 958496.3/18

Left In: 74.484+/-0.040 χ^2/NDF :1299.1/1

Left: 76.174+/-0.028 χ^2/NDF : 18109.0/4

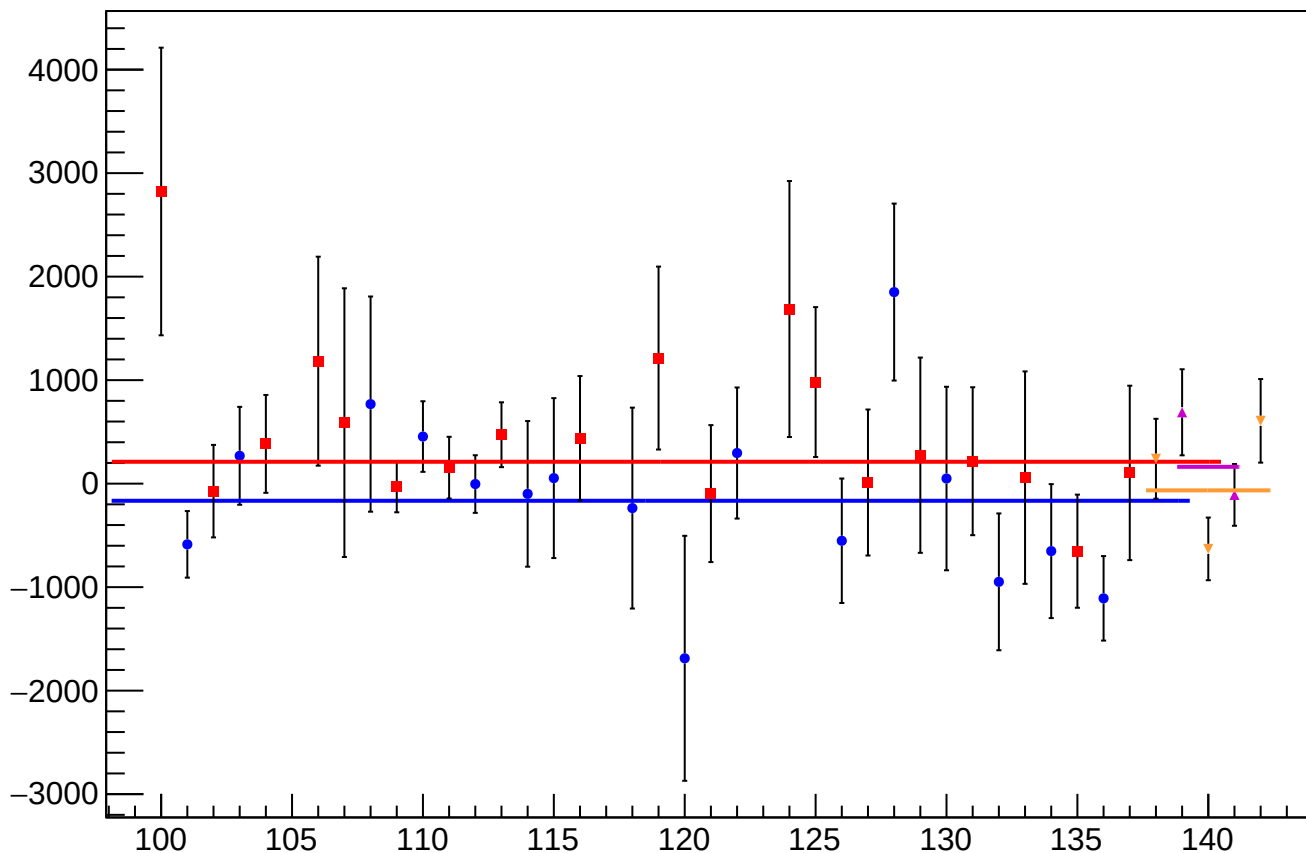
Right: 72.778+/-0.014 χ^2/NDF : 1618058.1/34

In: 73.709+/-0.018 χ^2/NDF :658613.7/17

Out: 73.218+/-0.017 χ^2/NDF :989135.1/21

All: 73.457+/-0.012 χ^2/NDF : 1648140.4/39

asym_sam7_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -165.498 $\pm$ 128.437 χ^2 /NDF: 22.6/15

Left Out: -65.026 $\pm$ 205.170 χ^2 /NDF:6.9/2

Right Out: 211.347 $\pm$ 120.121 χ^2 /NDF: 13.6/18

Left In: 162.341 $\pm$ 242.342 χ^2 /NDF:2.4/1

Left: 29.901 $\pm$ 156.589 χ^2 /NDF: 9.8/4

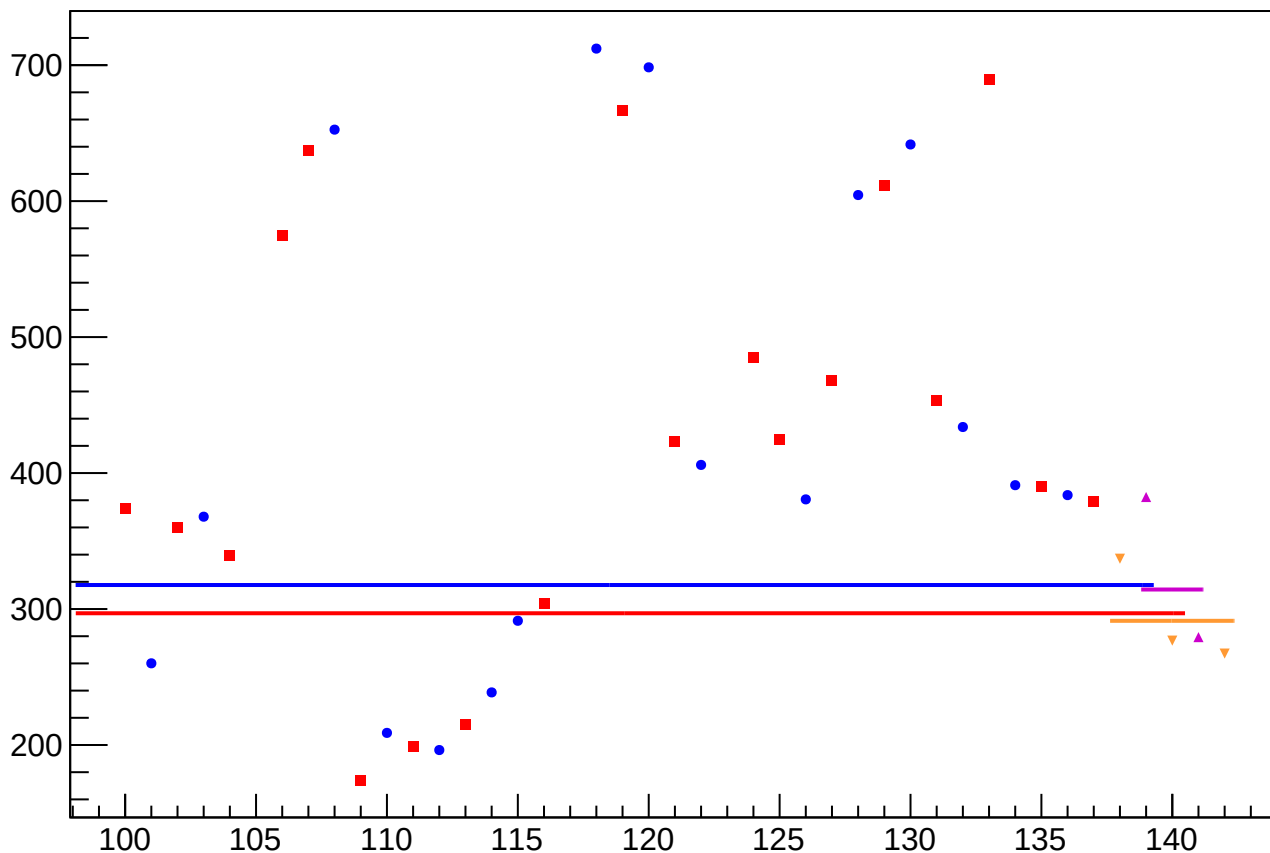
Right: 35.517 $\pm$ 87.731 χ^2 /NDF: 40.8/34

In: -93.608 $\pm$ 113.484 χ^2 /NDF:26.5/17

Out: 140.796 $\pm$ 103.662 χ^2 /NDF:21.8/21

All: 34.176 $\pm$ 76.537 χ^2 /NDF: 50.7/39

asym_sam7_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 317.661 $\pm$ 0.091 χ^2 /NDF: 2136224.4/15

Left Out: 291.330 $\pm$ 0.145 χ^2 /NDF:39757.4/2

Right Out: 296.887 $\pm$ 0.085 χ^2 /NDF: 2541051.2/18

Left In: 314.351 $\pm$ 0.171 χ^2 /NDF:81114.6/1

Left: 300.941 $\pm$ 0.111 χ^2 /NDF: 131384.3/4

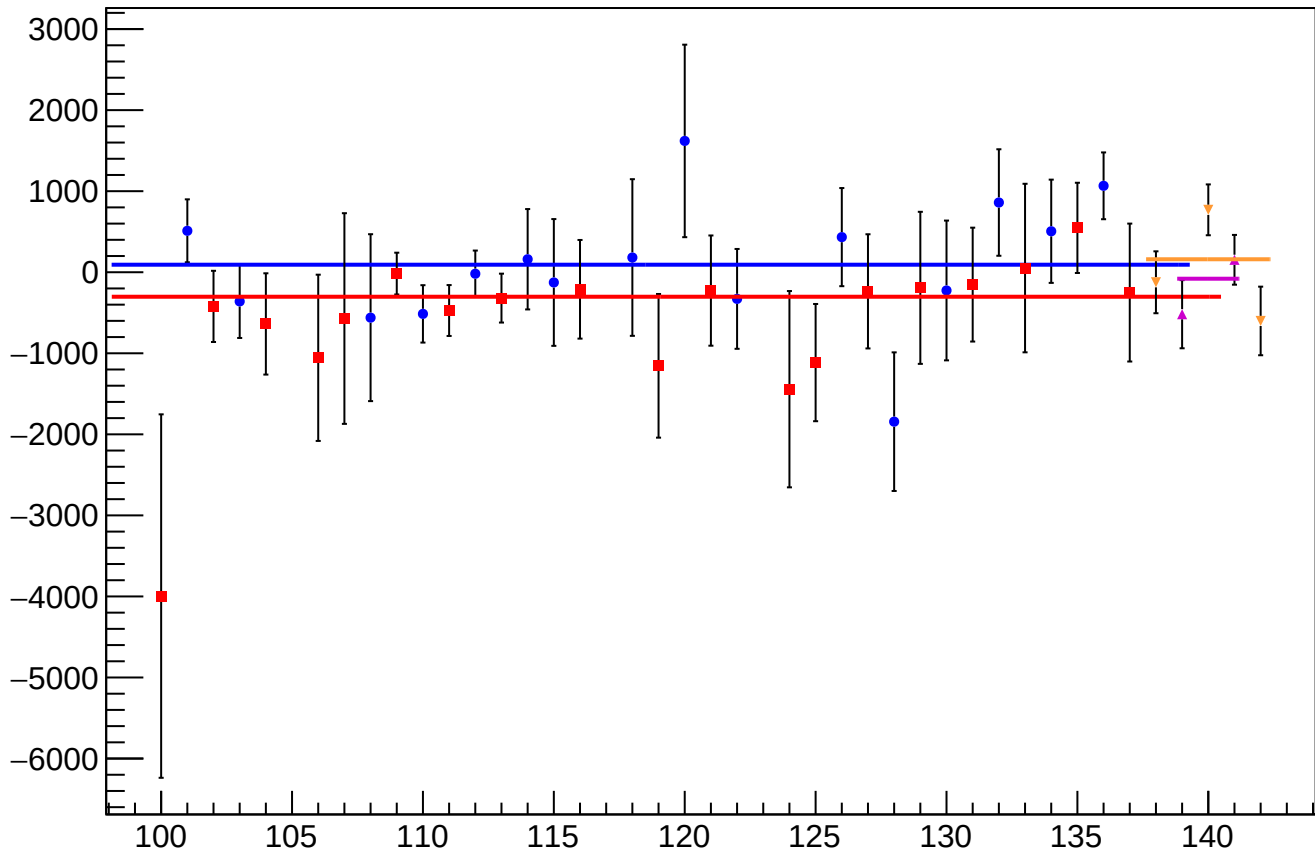
Right: 306.580 $\pm$ 0.062 χ^2 /NDF: 4705187.9/34

In: 316.935 $\pm$ 0.080 χ^2 /NDF:2217630.5/17

Out: 295.468 $\pm$ 0.073 χ^2 /NDF:2581901.1/21

All: 305.233 $\pm$ 0.054 χ^2 /NDF: 4838546.0/39

asym_sam7_mean vs Slug, Sign Corrected



Right In: 92.803 ± 131.927 $\chi^2/\text{NDF}: 20.8/15$

Left Out: 160.026 ± 210.315 $\chi^2/\text{NDF}: 7.6/2$

Right Out: -302.273 ± 123.916 $\chi^2/\text{NDF}: 10.8/18$

Left In: -80.019 ± 247.931 $\chi^2/\text{NDF}: 1.7/1$

Left: 59.576 ± 160.383 $\chi^2/\text{NDF}: 9.8/4$

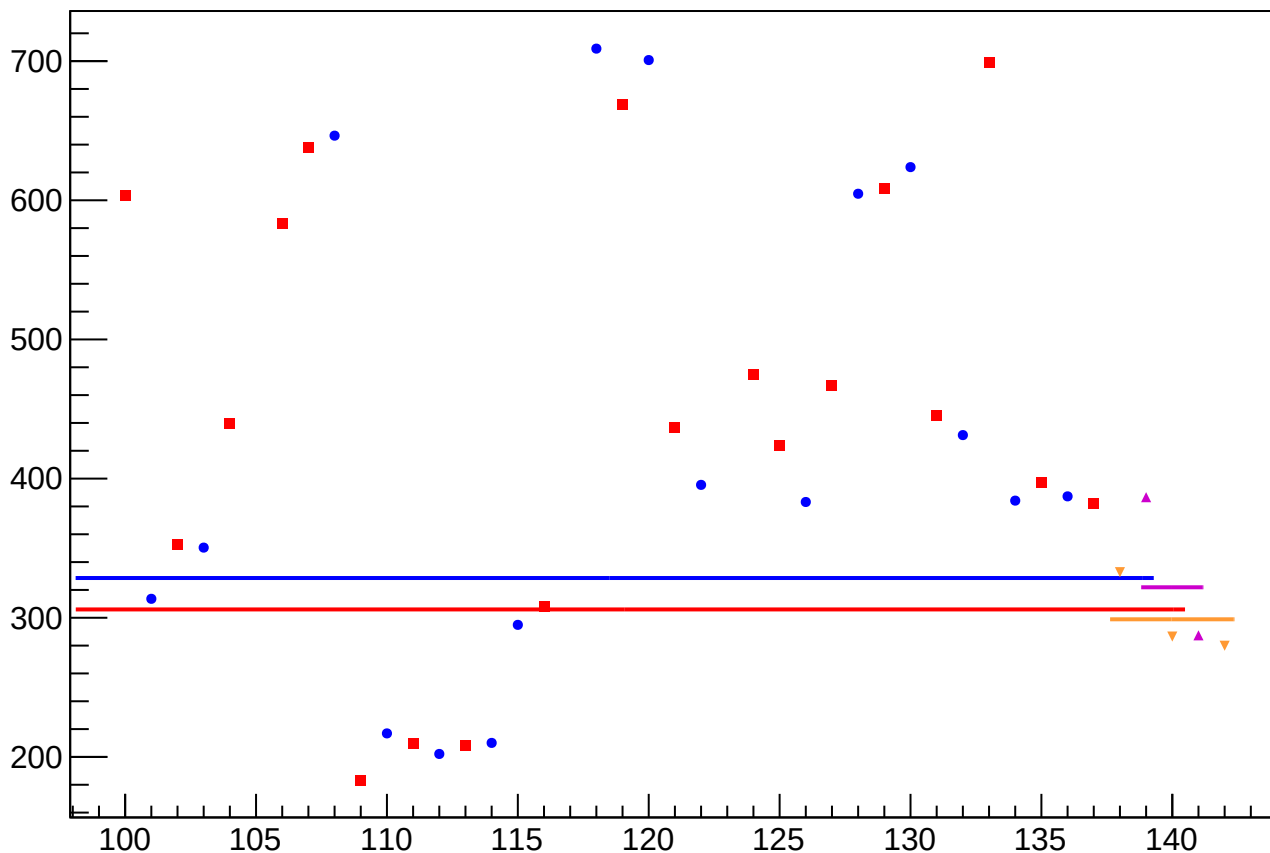
Right: -117.093 ± 90.322 $\chi^2/\text{NDF}: 36.4/34$

In: 54.667 ± 116.465 $\chi^2/\text{NDF}: 22.9/17$

Out: -183.142 ± 106.763 $\chi^2/\text{NDF}: 22.0/21$

All: -74.554 ± 78.700 $\chi^2/\text{NDF}: 47.1/39$

asym_sam7_rms vs Slug, Sign Corrected



Right In: 328.567+/-0.093 χ^2/NDF : 1958873.4/15

Left Out: 298.896+/-0.149 χ^2/NDF : 22885.6/2

Right Out: 305.988+/-0.088 χ^2/NDF : 2527463.5/18

Left In: 321.904+/-0.175 χ^2/NDF : 72722.6/1

Left: 308.524+/-0.113 χ^2/NDF : 105624.9/4

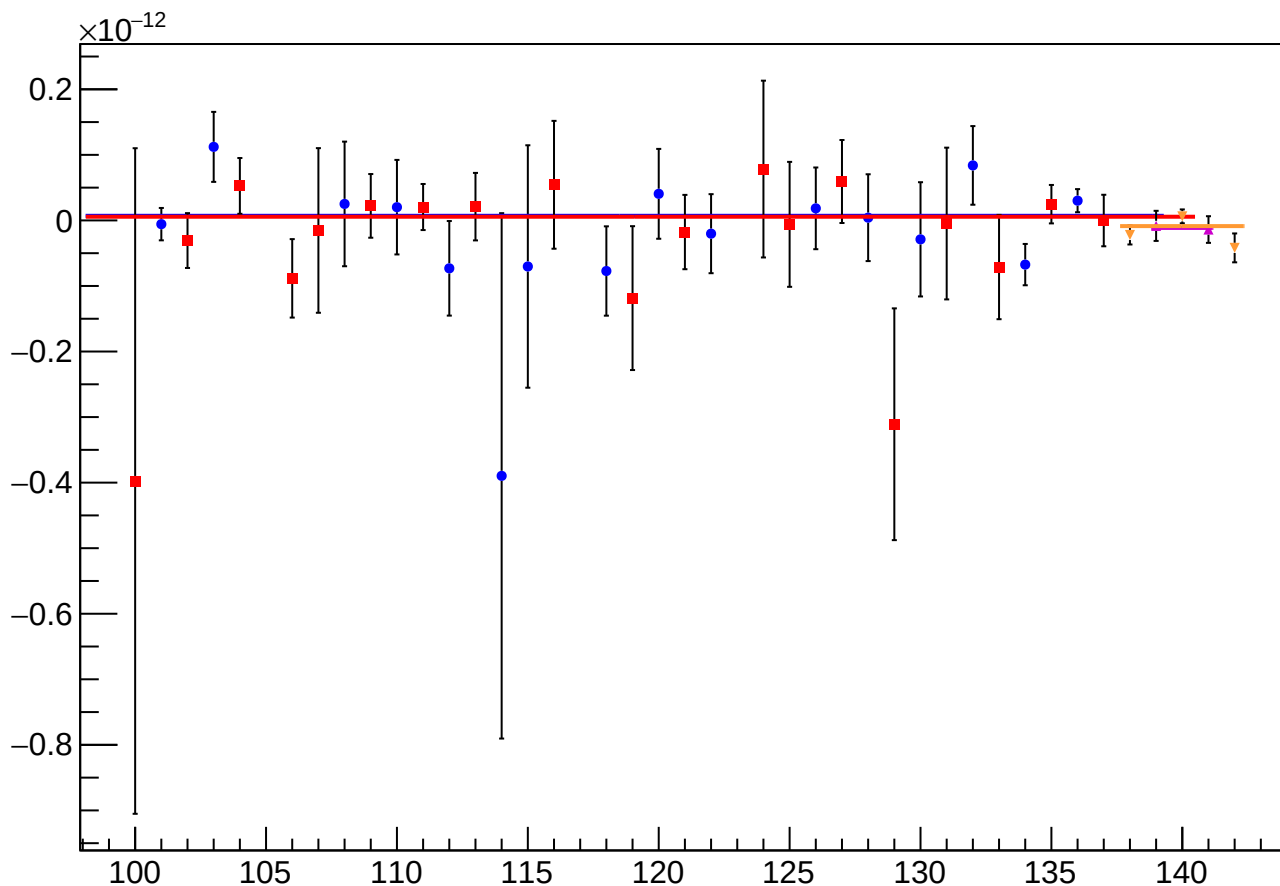
Right: 316.571+/-0.064 χ^2/NDF : 4517458.9/34

In: 327.096+/-0.082 χ^2/NDF : 2032721.5/17

Out: 304.161+/-0.075 χ^2/NDF : 2552037.7/21

All: 314.634+/-0.056 χ^2/NDF : 4626906.7/39

asym_sam7_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 17.7/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 5.1/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 12.8/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 5.2/4

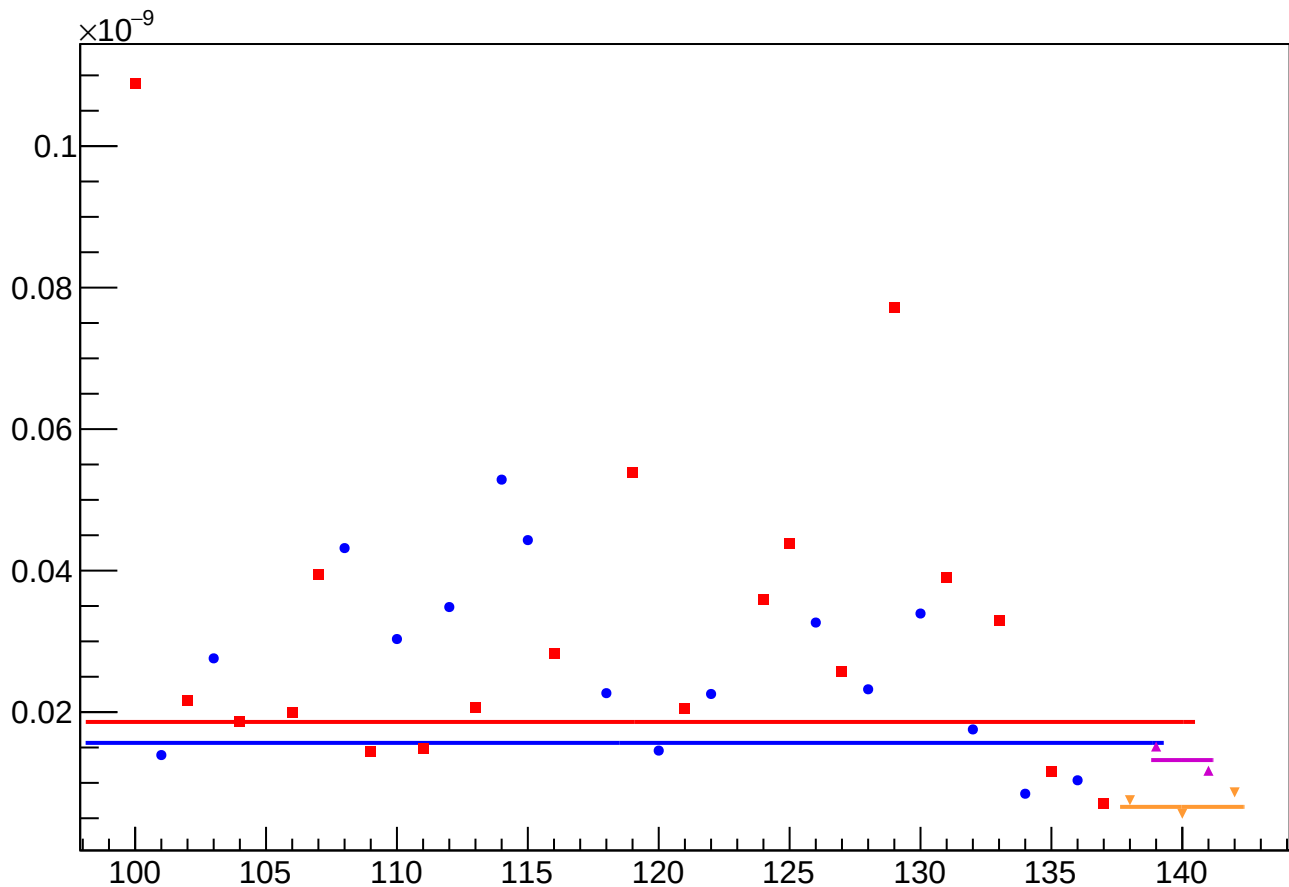
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 30.5/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF: 18.7/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 18.8/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 37.8/39

asym_sam7_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1164380.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 42485.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1228542.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 24988.3/1

Left: 0.000+/-0.000 χ^2/NDF : 363943.5/4

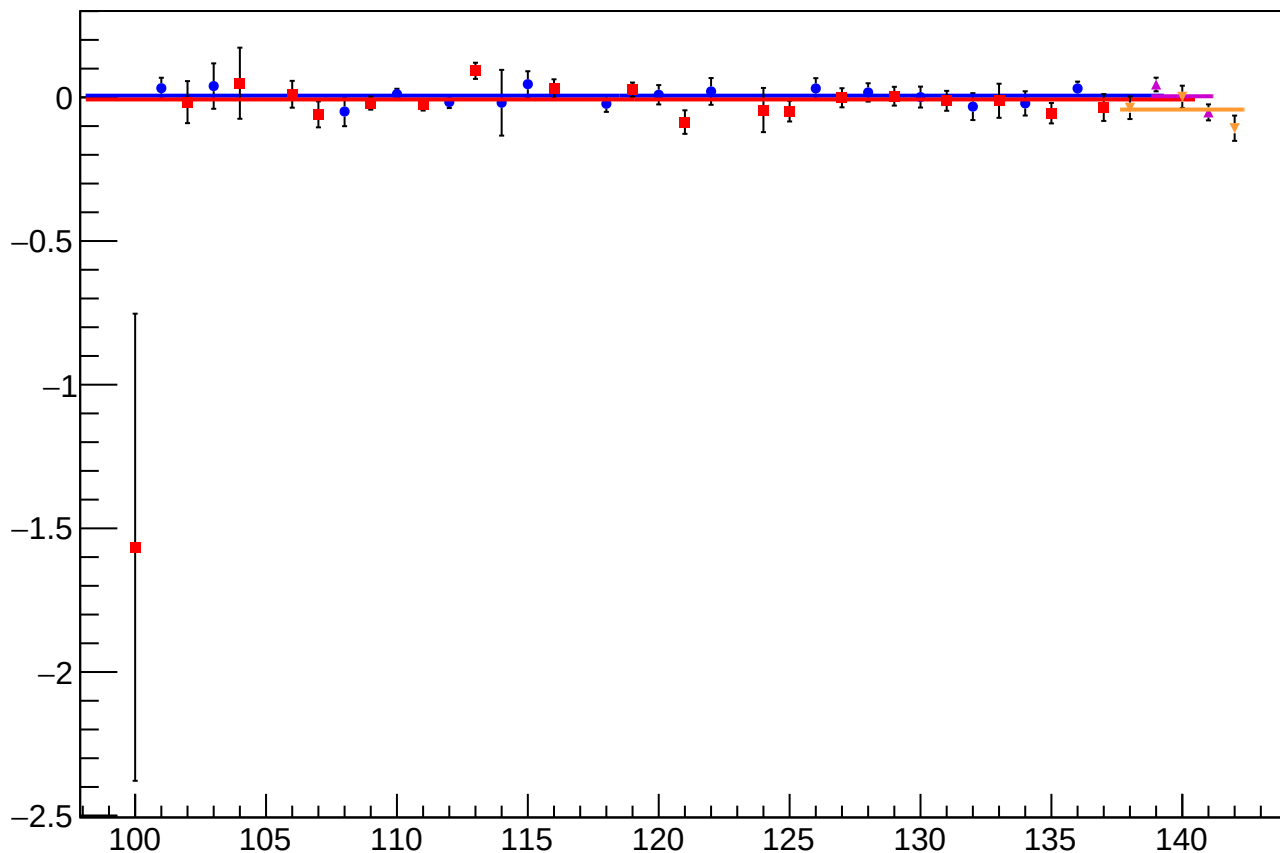
Right: 0.000+/-0.000 χ^2/NDF : 2454460.5/34

In: 0.000+/-0.000 χ^2/NDF : 1222966.5/17

Out: 0.000+/-0.000 χ^2/NDF : 2533769.8/21

All: 0.000+/-0.000 χ^2/NDF : 4137375.0/39

asym_sam7_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 ± 0.008 $\chi^2/\text{NDF}: 7.9/15$

Left Out: -0.042 ± 0.023 $\chi^2/\text{NDF}: 3.5/2$

Right Out: -0.007 ± 0.008 $\chi^2/\text{NDF}: 29.8/18$

Left In: 0.004 ± 0.018 $\chi^2/\text{NDF}: 7.0/1$

Left: -0.013 ± 0.014 $\chi^2/\text{NDF}: 13.0/4$

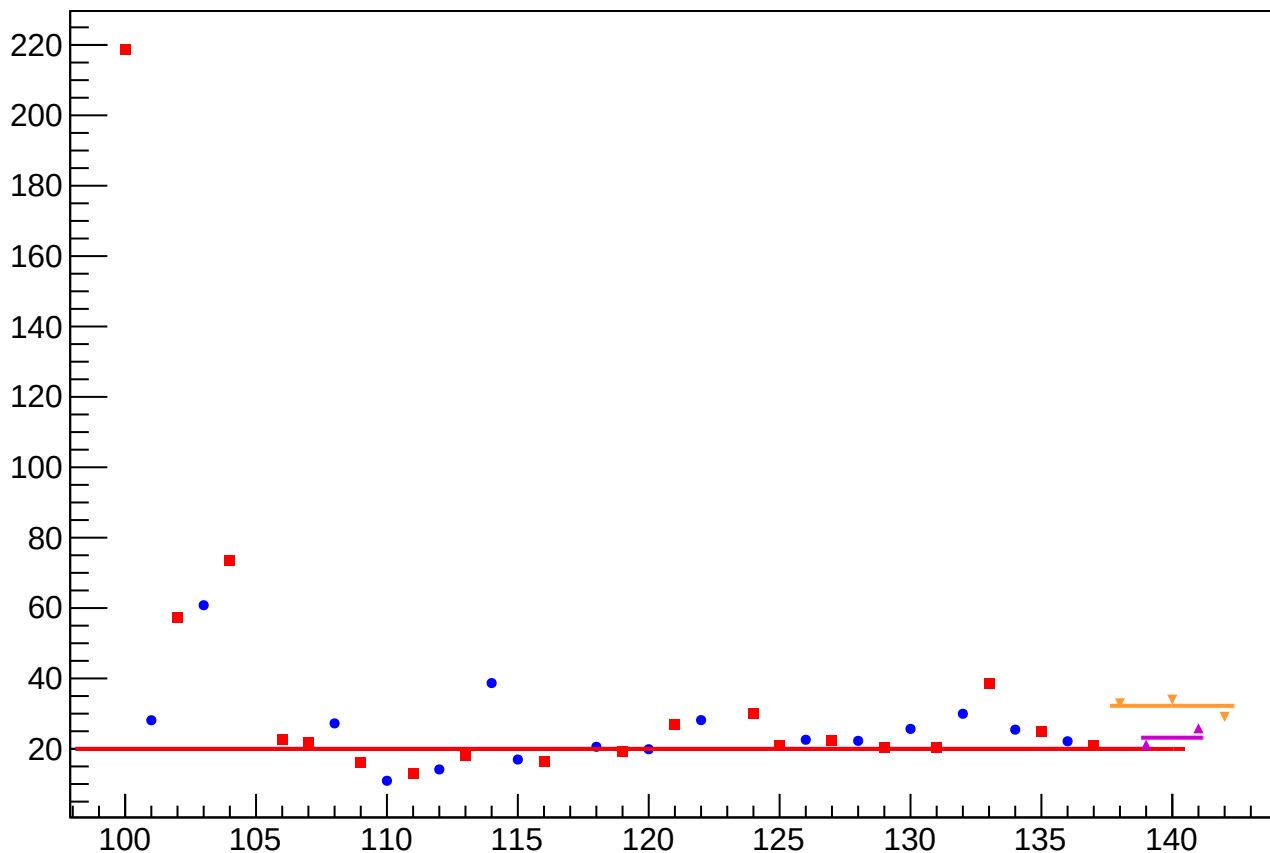
Right: -0.001 ± 0.006 $\chi^2/\text{NDF}: 39.0/34$

In: 0.006 ± 0.007 $\chi^2/\text{NDF}: 14.9/17$

Out: -0.011 ± 0.008 $\chi^2/\text{NDF}: 35.4/21$

All: -0.003 ± 0.005 $\chi^2/\text{NDF}: 52.7/39$

asym_sam7_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.000+/-0.006 χ^2/NDF : 1641371.9/15

Left Out: 32.220+/-0.017 χ^2/NDF :14997.1/2

Right Out: 19.963+/-0.006 χ^2/NDF : 1716895.2/18

Left In: 23.167+/-0.013 χ^2/NDF :31753.1/1

Left: 26.556+/-0.010 χ^2/NDF : 234233.5/4

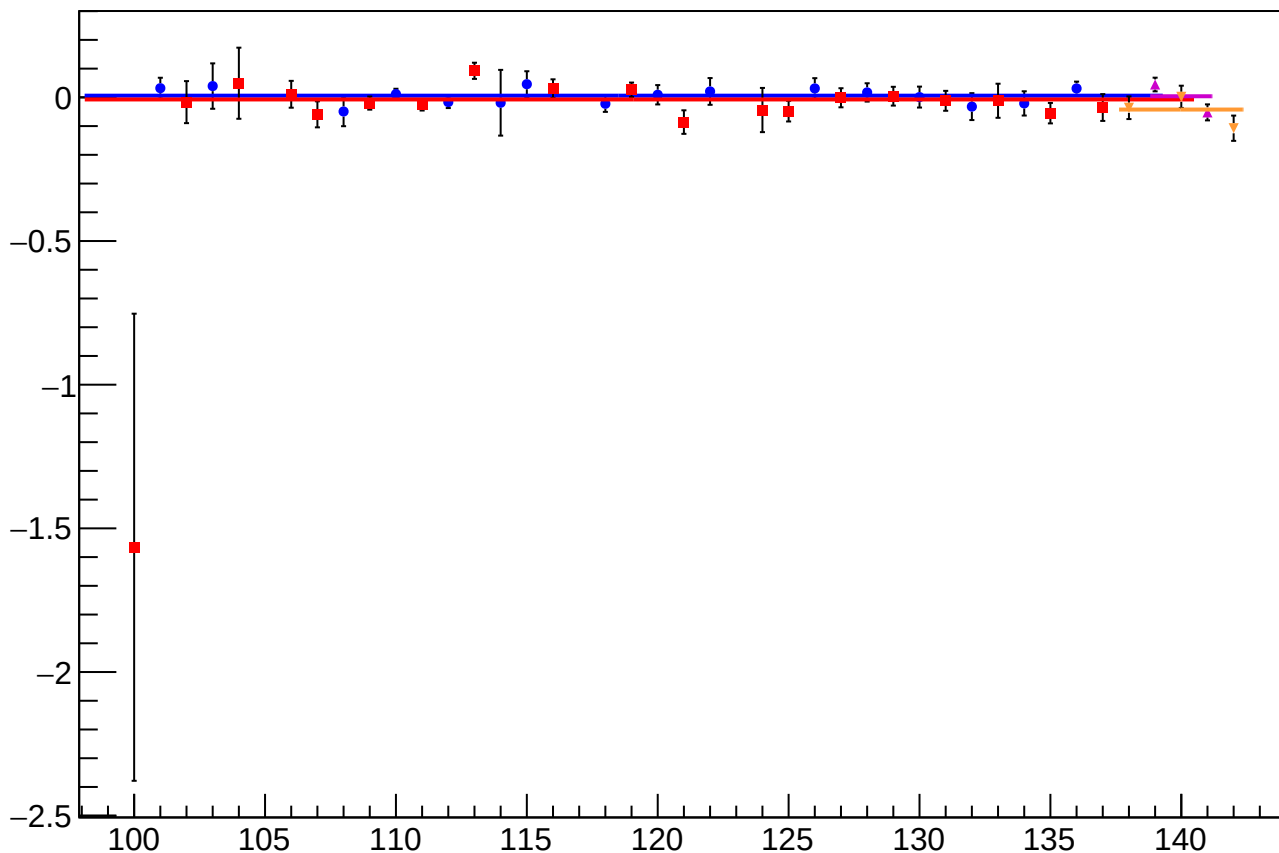
Right: 19.981+/-0.004 χ^2/NDF : 3358287.6/34

In: 20.536+/-0.005 χ^2/NDF :1724042.1/17

Out: 21.274+/-0.005 χ^2/NDF :2222452.8/21

All: 20.895+/-0.004 χ^2/NDF : 3956055.6/39

asym_sam7_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006+/-0.008 χ^2/NDF : 7.9/15

Left Out: -0.042+/-0.023 χ^2/NDF : 3.5/2

Right Out: -0.007+/-0.008 χ^2/NDF : 29.8/18

Left In: 0.004+/-0.018 χ^2/NDF : 7.0/1

Left: -0.013+/-0.014 χ^2/NDF : 13.0/4

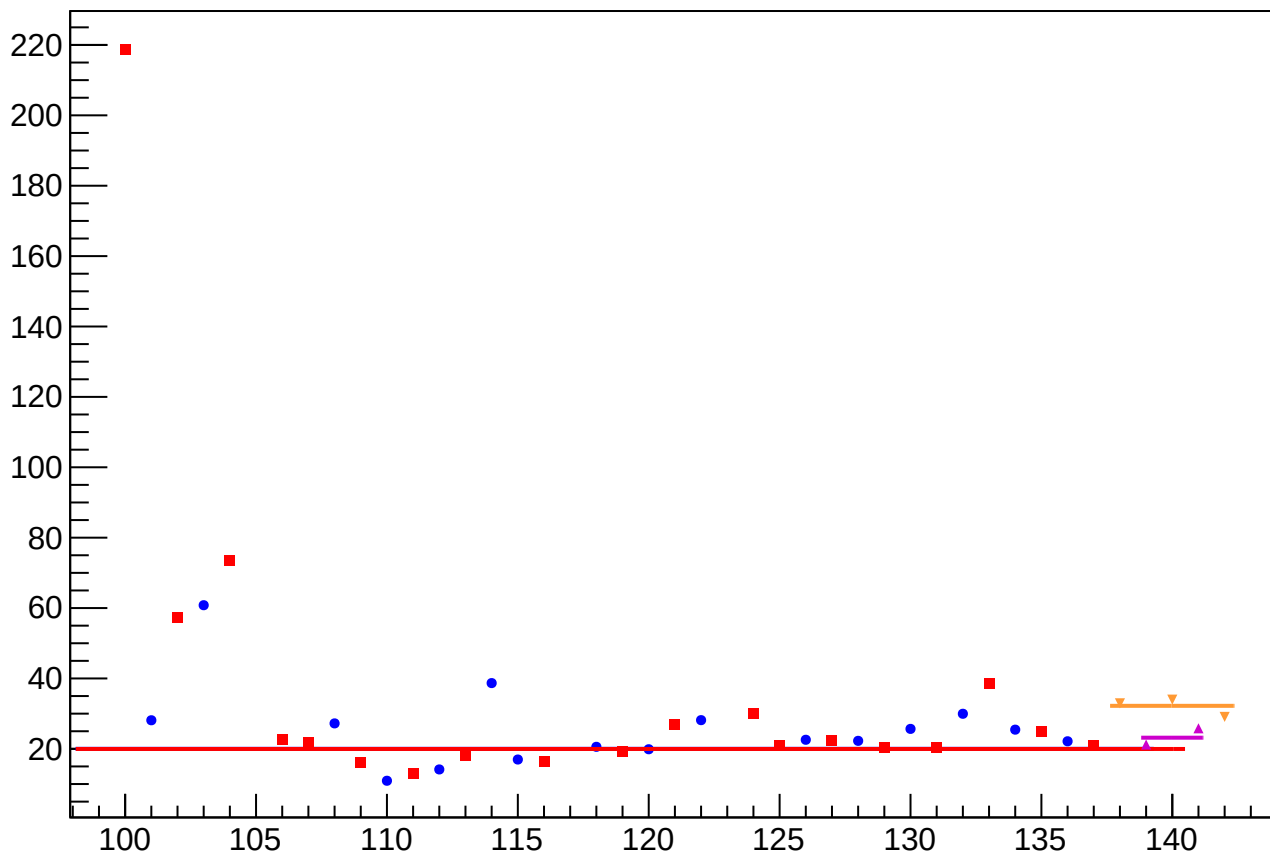
Right: -0.001+/-0.006 χ^2/NDF : 39.0/34

In: 0.006+/-0.007 χ^2/NDF : 14.9/17

Out: -0.011+/-0.008 χ^2/NDF : 35.4/21

All: -0.003+/-0.005 χ^2/NDF : 52.7/39

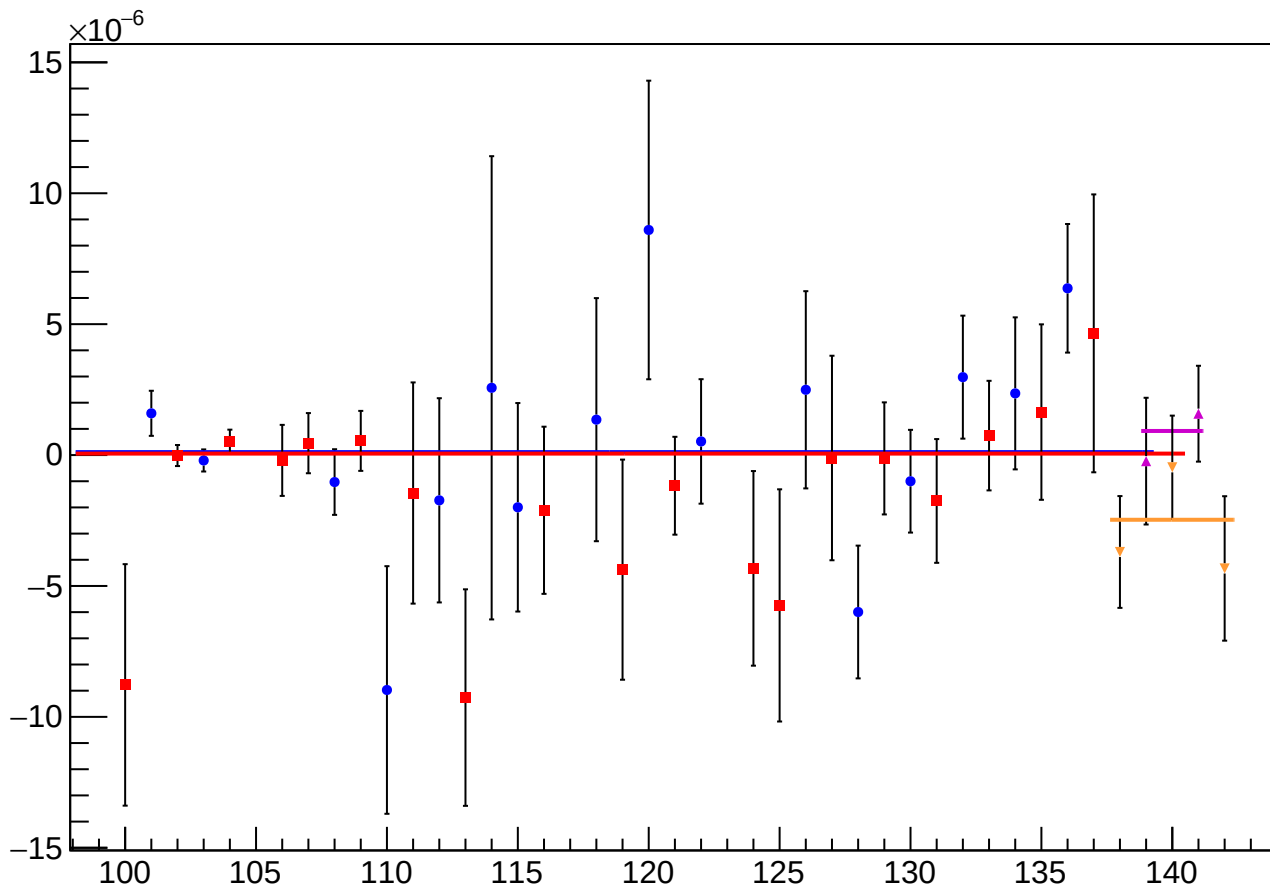
asym_sam7_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.000+/-0.006 χ^2/NDF : 1641371.9/15
 Left Out: 32.220+/-0.017 χ^2/NDF :14997.1/2
 Right Out: 19.963+/-0.006 χ^2/NDF : 1716895.2/18
 Left In: 23.167+/-0.013 χ^2/NDF :31753.1/1

Left: 26.556+/-0.010 χ^2/NDF : 234233.5/4
 Right: 19.981+/-0.004 χ^2/NDF : 3358287.6/34
 In: 20.536+/-0.005 χ^2/NDF :1724042.1/17
 Out: 21.274+/-0.005 χ^2/NDF :2222452.8/21
 All: 20.895+/-0.004 χ^2/NDF : 3956055.6/39

asym_sam7_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 26.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 17.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.4/1

Left: -0.000+/-0.000 χ^2/NDF : 5.2/4

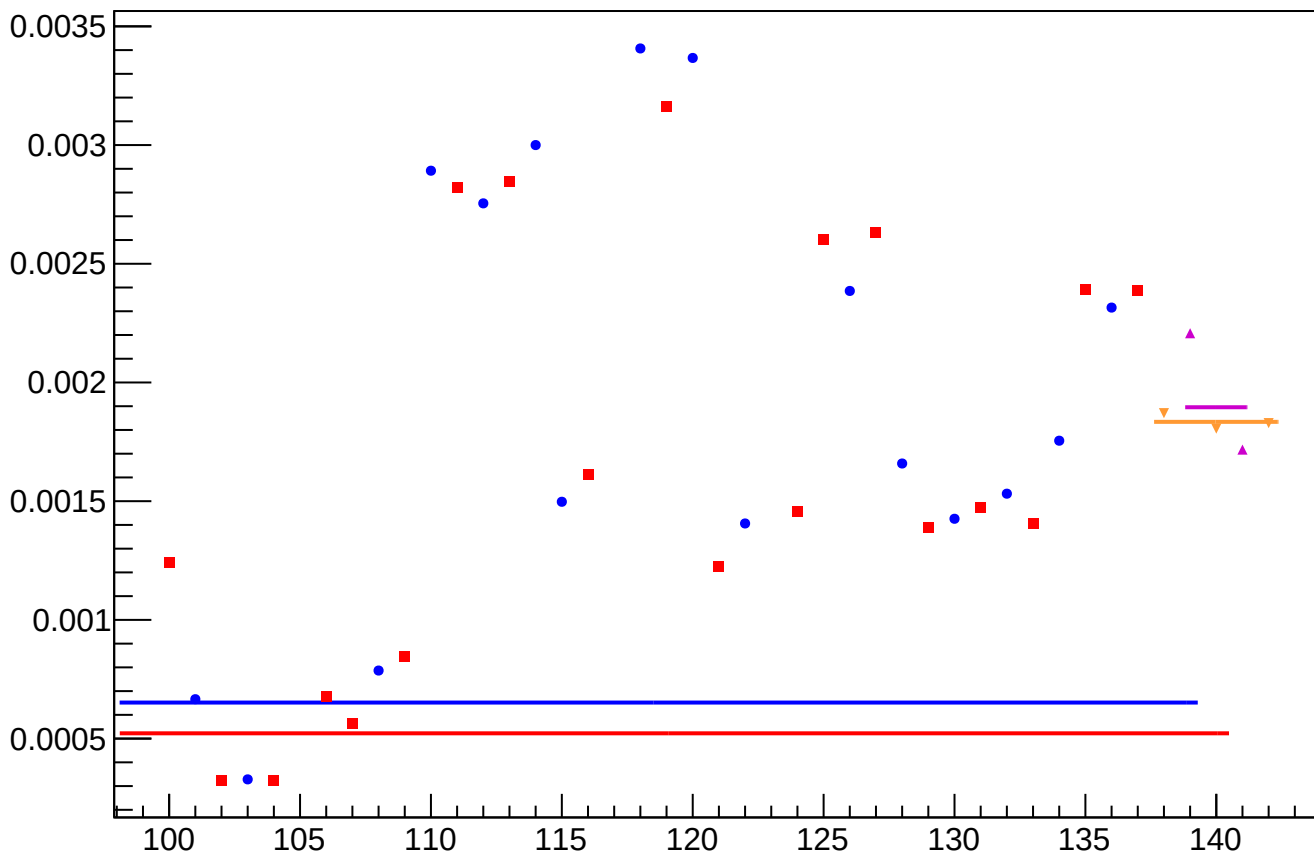
Right: 0.000+/-0.000 χ^2/NDF : 43.2/34

In: 0.000+/-0.000 χ^2/NDF : 26.7/17

Out: -0.000+/-0.000 χ^2/NDF : 22.6/21

All: 0.000+/-0.000 χ^2/NDF : 49.6/39

asym_sam7_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 6357494.9/15

Left Out: 0.002+/-0.000 χ^2/NDF :1015.0/2

Right Out: 0.001+/-0.000 χ^2/NDF : 6676790.5/18

Left In: 0.002+/-0.000 χ^2/NDF :52177.3/1

Left: 0.002+/-0.000 χ^2/NDF : 55195.5/4

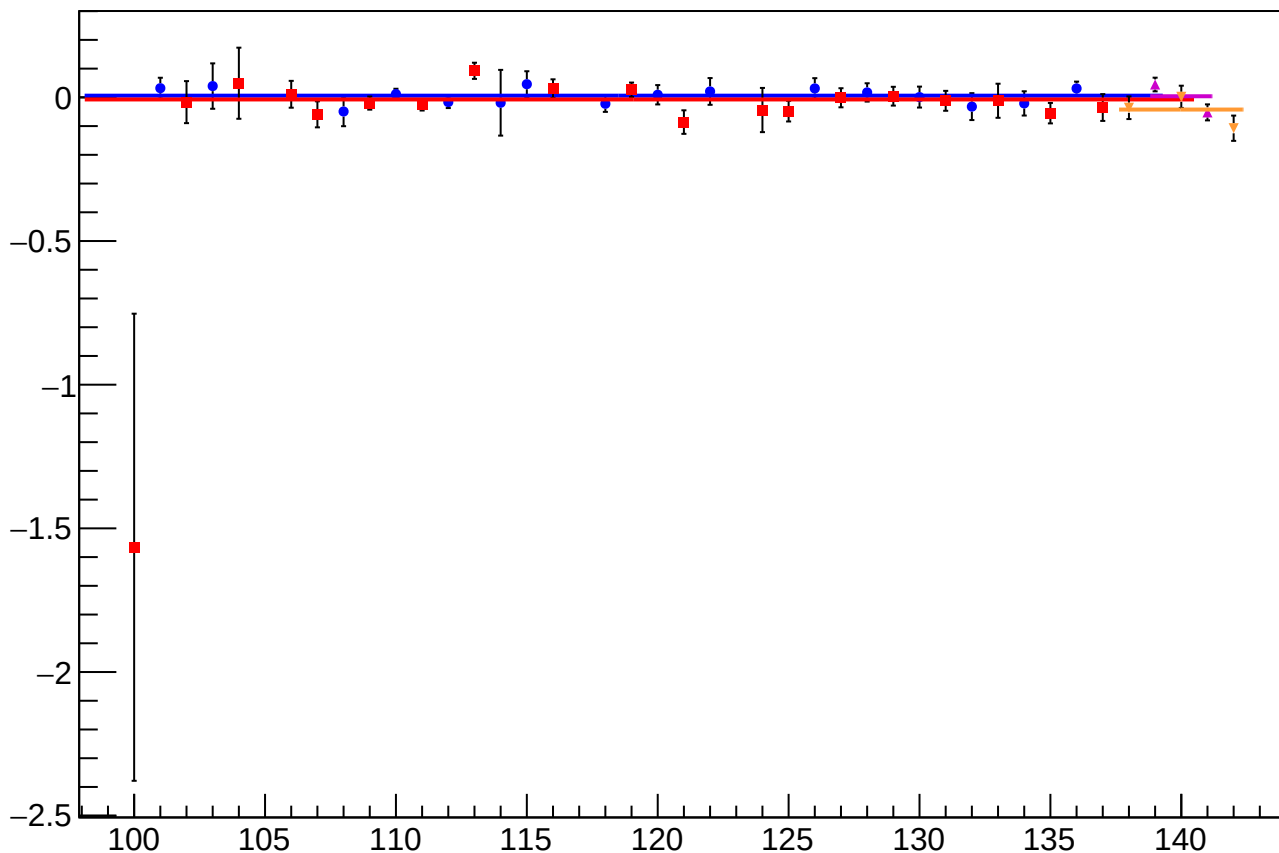
Right: 0.001+/-0.000 χ^2/NDF : 13221881.1/34

In: 0.001+/-0.000 χ^2/NDF :7789354.1/17

Out: 0.001+/-0.000 χ^2/NDF :8685876.1/21

All: 0.001+/-0.000 χ^2/NDF : 16702701.6/39

asym_sam7_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 ± 0.008 $\chi^2/\text{NDF}: 7.9/15$

Left Out: -0.042 ± 0.023 $\chi^2/\text{NDF}: 3.5/2$

Right Out: -0.007 ± 0.008 $\chi^2/\text{NDF}: 29.8/18$

Left In: 0.004 ± 0.018 $\chi^2/\text{NDF}: 7.0/1$

Left: -0.013 ± 0.014 $\chi^2/\text{NDF}: 13.0/4$

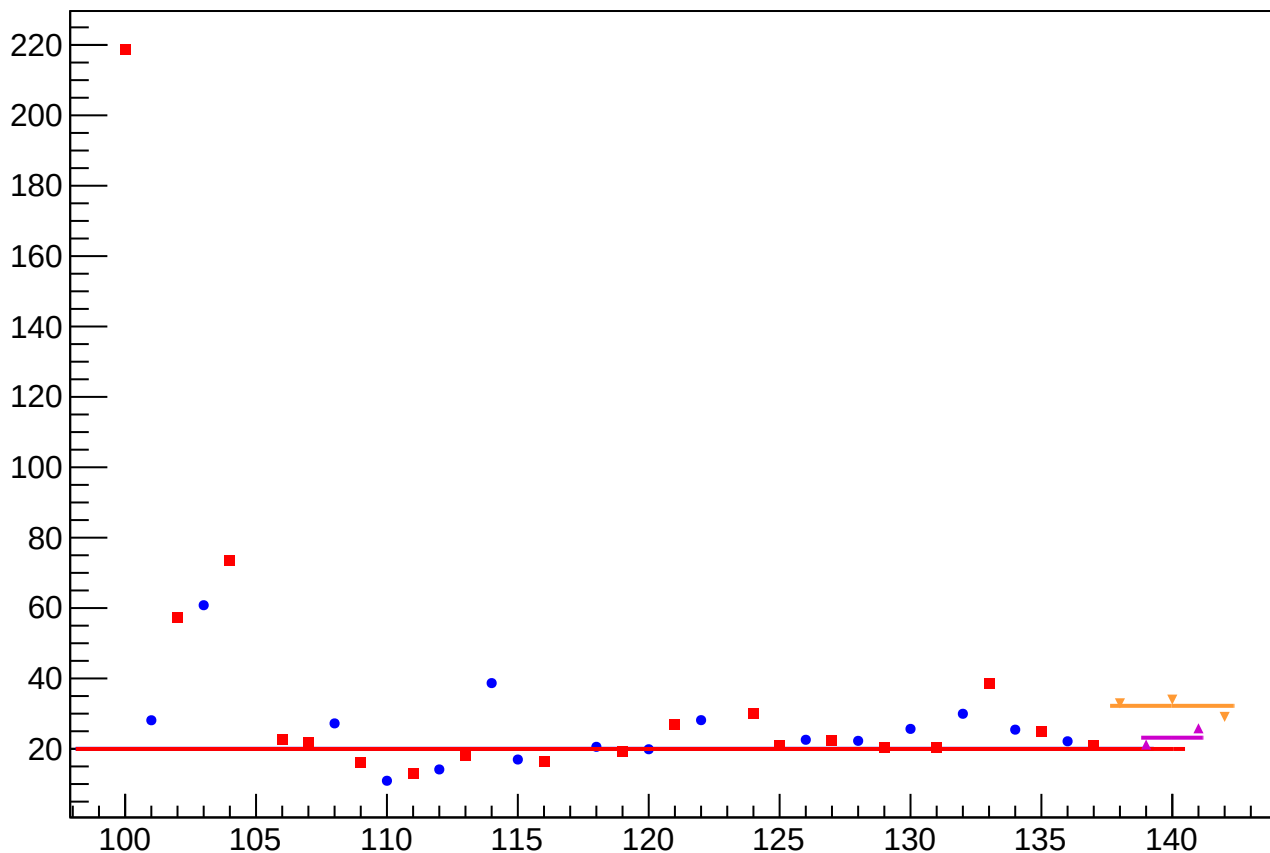
Right: -0.001 ± 0.006 $\chi^2/\text{NDF}: 39.0/34$

In: 0.006 ± 0.007 $\chi^2/\text{NDF}: 14.9/17$

Out: -0.011 ± 0.008 $\chi^2/\text{NDF}: 35.3/21$

All: -0.003 ± 0.005 $\chi^2/\text{NDF}: 52.7/39$

asym_sam7_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.000+/-0.006 χ^2/NDF : 1641197.3/15

Left Out: 32.220+/-0.017 χ^2/NDF :14994.8/2

Right Out: 19.963+/-0.006 χ^2/NDF : 1716830.0/18

Left In: 23.167+/-0.013 χ^2/NDF :31755.7/1

Left: 26.556+/-0.010 χ^2/NDF : 234239.0/4

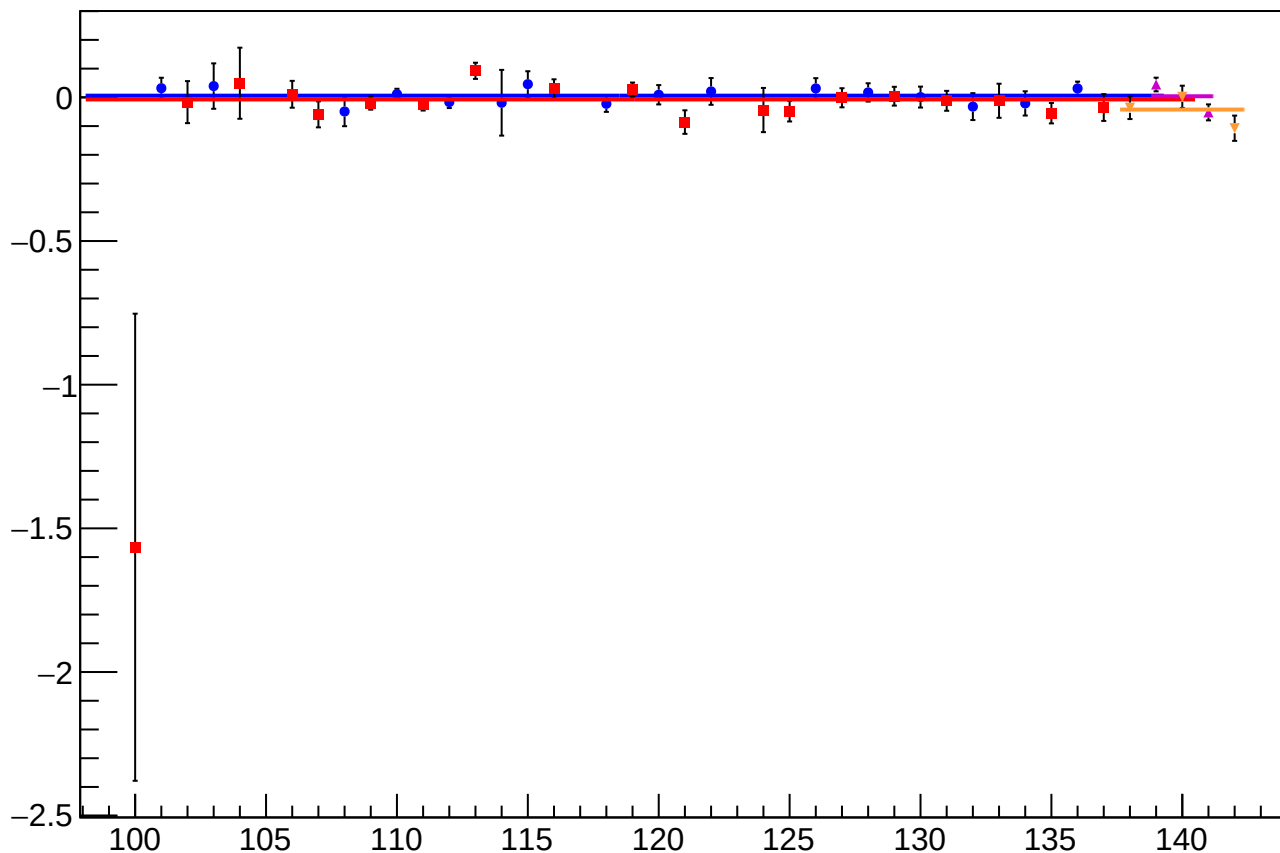
Right: 19.981+/-0.004 χ^2/NDF : 3358048.3/34

In: 20.536+/-0.005 χ^2/NDF :1723854.0/17

Out: 21.274+/-0.005 χ^2/NDF :2222381.3/21

All: 20.895+/-0.004 χ^2/NDF : 3955788.7/39

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 ± 0.008 $\chi^2/\text{NDF}: 7.9/15$

Left Out: -0.042 ± 0.023 $\chi^2/\text{NDF}: 3.5/2$

Right Out: -0.007 ± 0.008 $\chi^2/\text{NDF}: 29.8/18$

Left In: 0.004 ± 0.018 $\chi^2/\text{NDF}: 7.0/1$

Left: -0.013 ± 0.014 $\chi^2/\text{NDF}: 13.0/4$

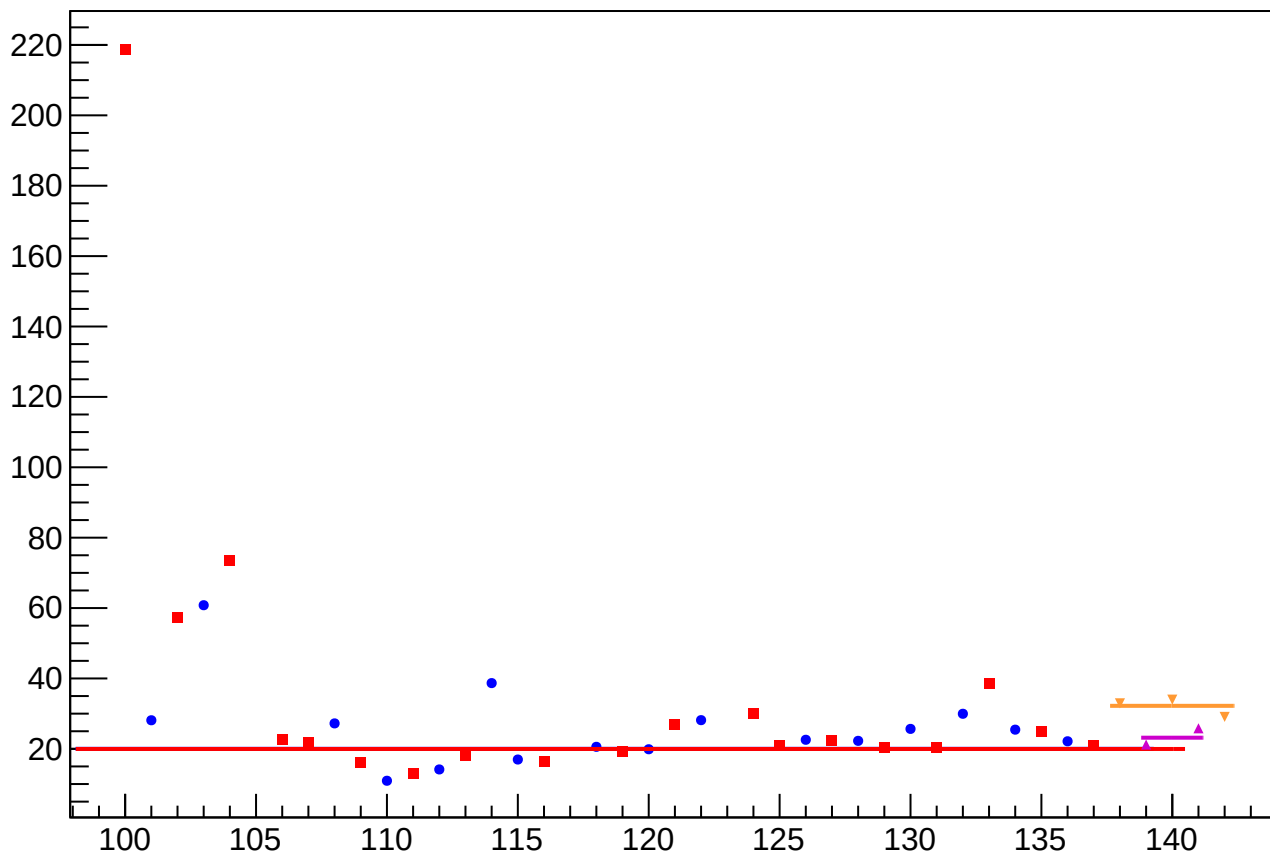
Right: -0.001 ± 0.006 $\chi^2/\text{NDF}: 39.0/34$

In: 0.006 ± 0.007 $\chi^2/\text{NDF}: 14.9/17$

Out: -0.011 ± 0.008 $\chi^2/\text{NDF}: 35.3/21$

All: -0.003 ± 0.005 $\chi^2/\text{NDF}: 52.7/39$

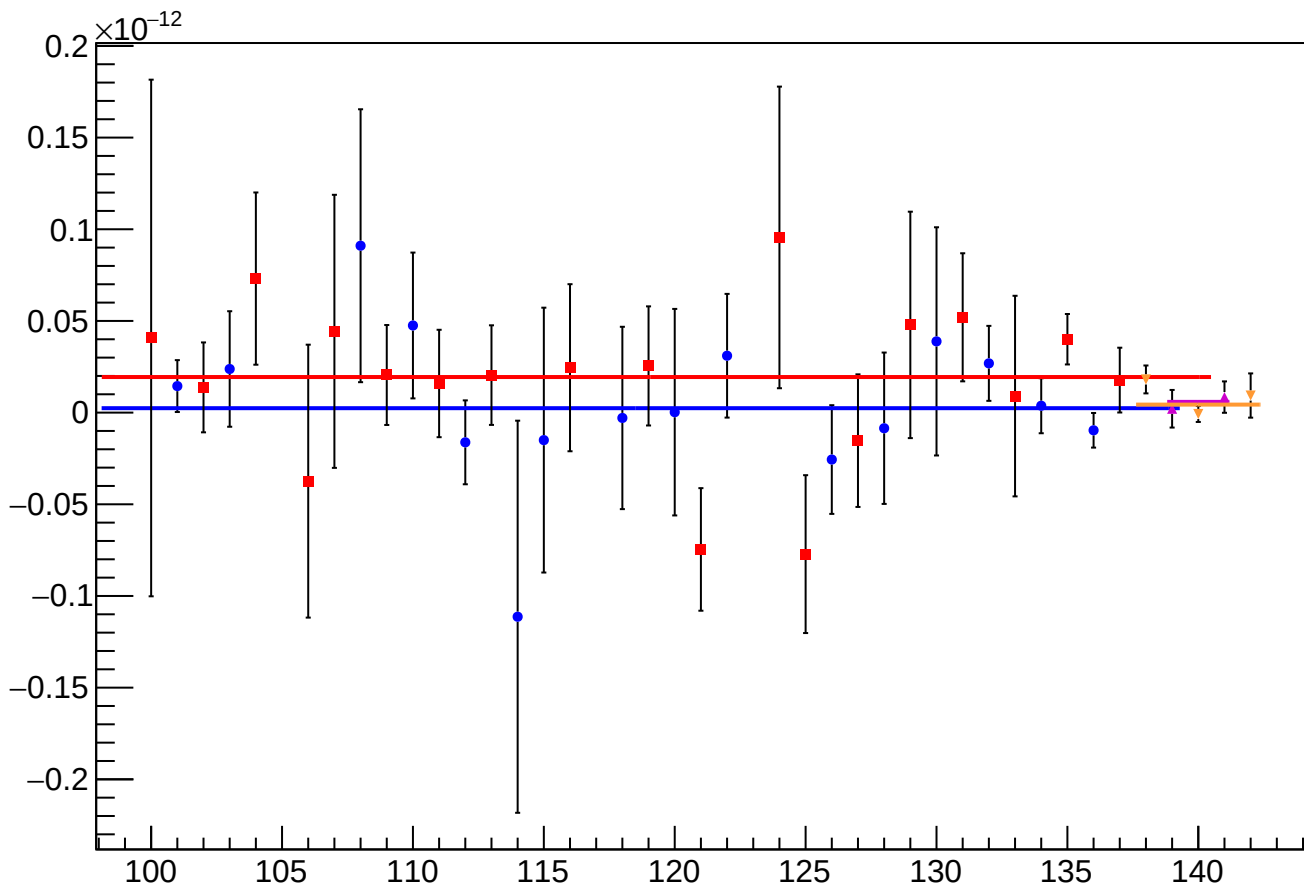
asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.000 $\pm$ 0.006 χ^2 /NDF: 1641197.3/15
 Left Out: 32.220 $\pm$ 0.017 χ^2 /NDF:14994.8/2
 Right Out: 19.963 $\pm$ 0.006 χ^2 /NDF: 1716830.0/18
 Left In: 23.167 $\pm$ 0.013 χ^2 /NDF:31755.7/1

Left: 26.556 $\pm$ 0.010 χ^2 /NDF: 234239.0/4
 Right: 19.981 $\pm$ 0.004 χ^2 /NDF: 3358048.3/34
 In: 20.536 $\pm$ 0.005 χ^2 /NDF:1723854.0/17
 Out: 21.274 $\pm$ 0.005 χ^2 /NDF:2222381.3/21
 All: 20.895 $\pm$ 0.004 χ^2 /NDF: 3955788.7/39

asym_sam7_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 10.8/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 4.8/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 20.2/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.2/1

Left: 0.000 ± 0.000 χ^2/NDF : 5.1/4

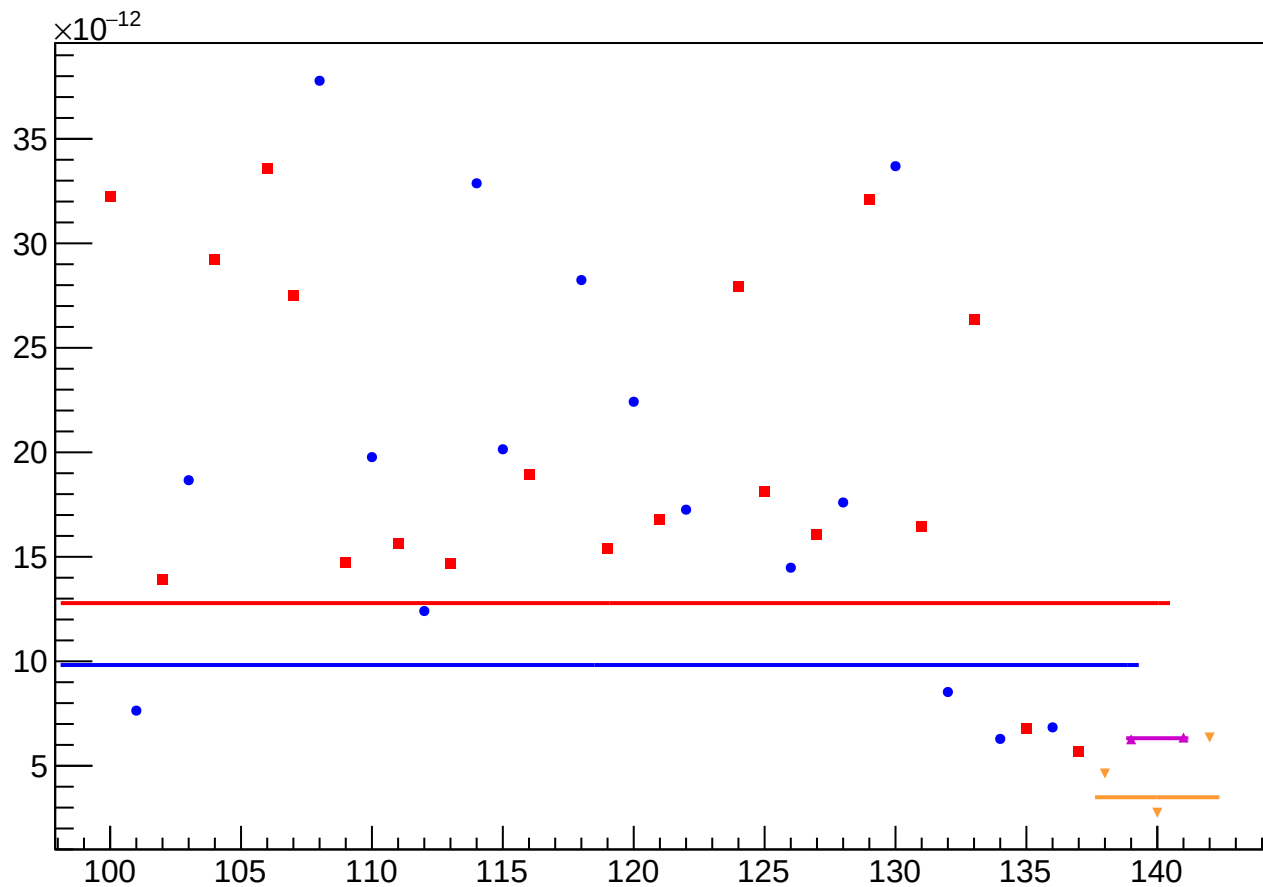
Right: 0.000 ± 0.000 χ^2/NDF : 34.6/34

In: 0.000 ± 0.000 χ^2/NDF : 11.2/17

Out: 0.000 ± 0.000 χ^2/NDF : 28.7/21

All: 0.000 ± 0.000 χ^2/NDF : 40.3/39

asym_sam7_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1977074.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :214767.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1798852.4/18

Left In: 0.000+/-0.000 χ^2/NDF :78.0/1

Left: 0.000+/-0.000 χ^2/NDF : 499028.3/4

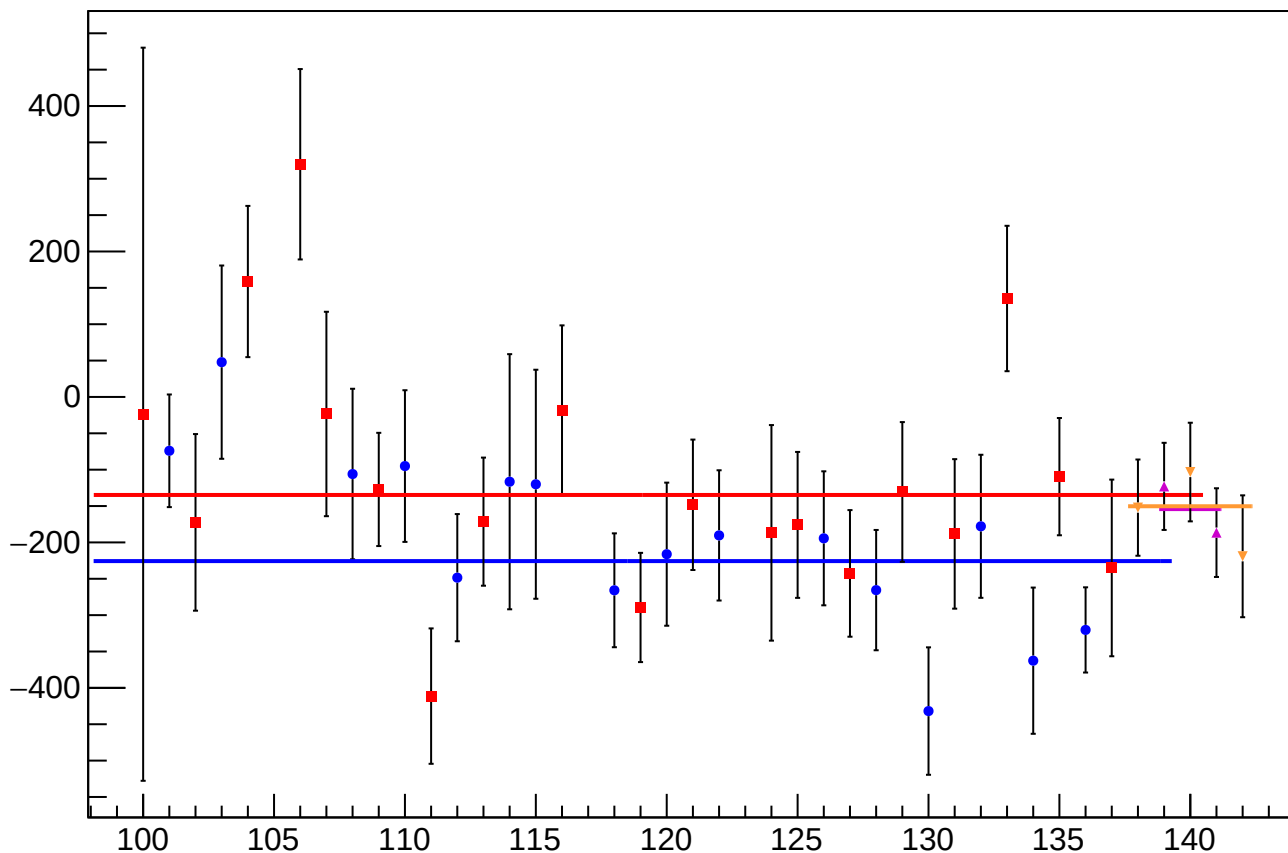
Right: 0.000+/-0.000 χ^2/NDF : 3988919.3/34

In: 0.000+/-0.000 χ^2/NDF :2300628.4/17

Out: 0.000+/-0.000 χ^2/NDF :4763864.1/21

All: 0.000+/-0.000 χ^2/NDF : 7647799.5/39

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -225.692 ± 23.118 $\chi^2/\text{NDF}: 22.6/15$

Left Out: -150.291 ± 41.223 $\chi^2/\text{NDF}: 1.2/2$

Right Out: -134.762 ± 23.192 $\chi^2/\text{NDF}: 45.3/18$

Left In: -154.183 ± 42.727 $\chi^2/\text{NDF}: 0.6/1$

Left: -152.167 ± 29.667 $\chi^2/\text{NDF}: 1.7/4$

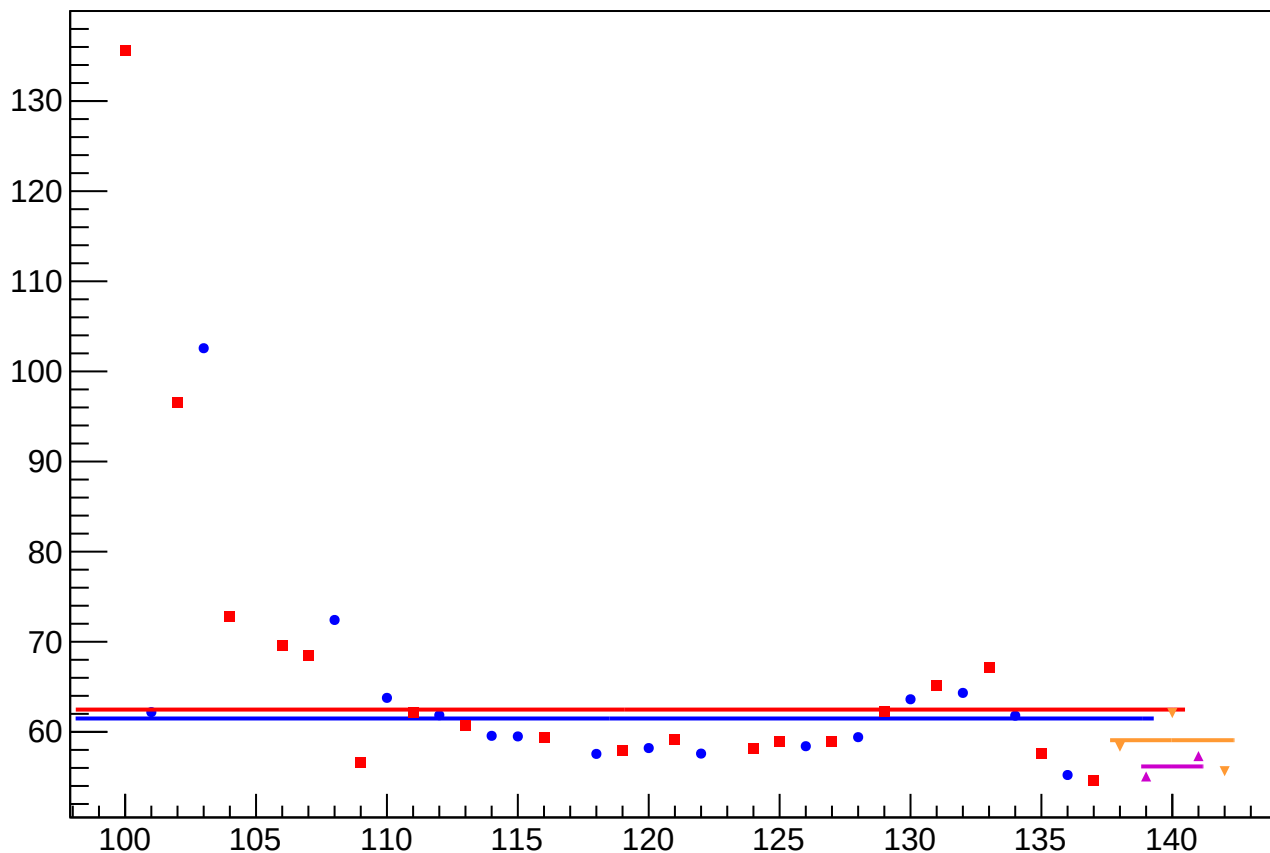
Right: -180.371 ± 16.373 $\chi^2/\text{NDF}: 75.6/34$

In: -209.498 ± 20.333 $\chi^2/\text{NDF}: 25.3/17$

Out: -138.495 ± 20.213 $\chi^2/\text{NDF}: 46.5/21$

All: -173.786 ± 14.335 $\chi^2/\text{NDF}: 78.0/39$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 61.486 $\pm$ 0.016 χ^2 /NDF: 250669.2/15

Left Out: 59.077 $\pm$ 0.029 χ^2 /NDF: 7540.0/2

Right Out: 62.476 $\pm$ 0.016 χ^2 /NDF: 281148.3/18

Left In: 56.165 $\pm$ 0.030 χ^2 /NDF: 1398.1/1

Left: 57.673 $\pm$ 0.021 χ^2 /NDF: 13748.9/4

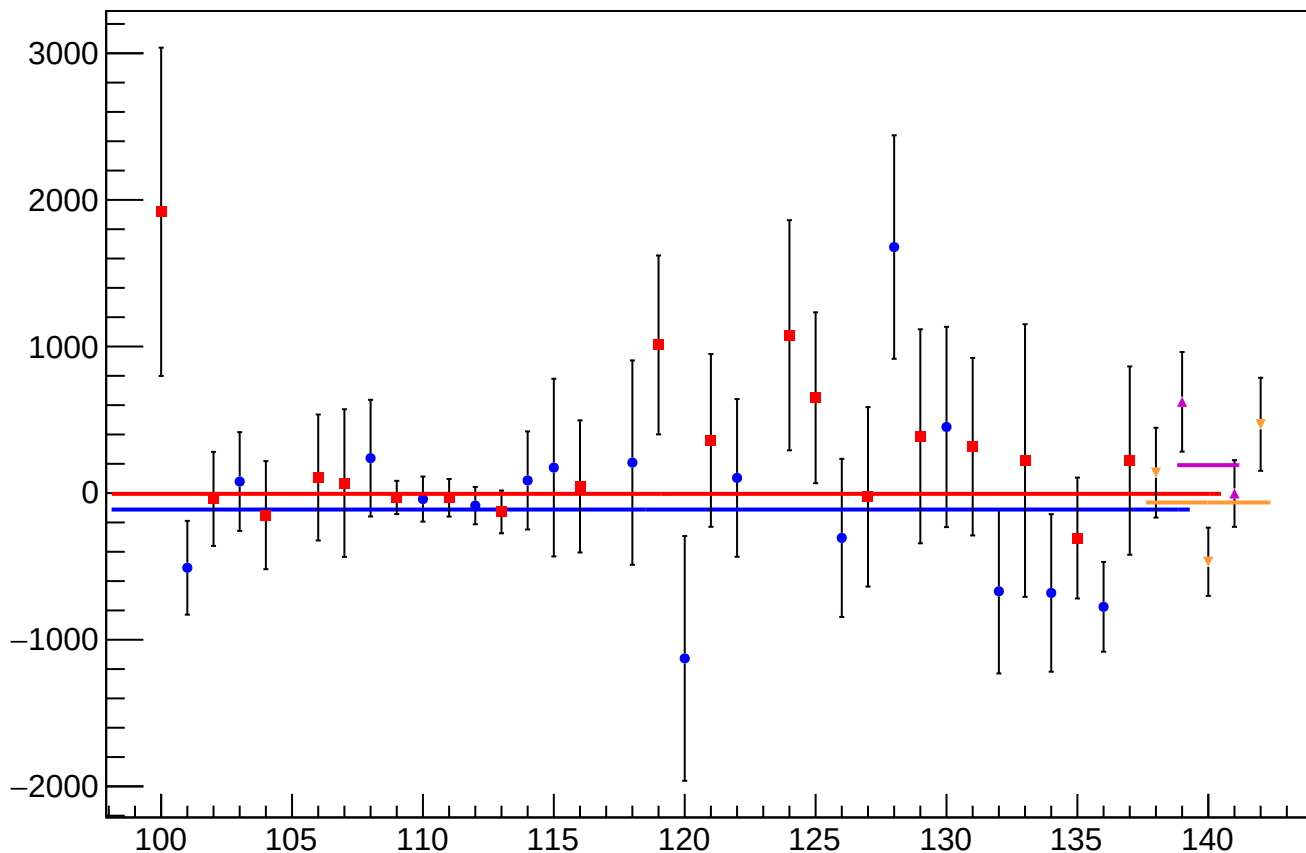
Right: 61.979 $\pm$ 0.012 χ^2 /NDF: 533645.0/34

In: 60.281 $\pm$ 0.014 χ^2 /NDF: 276059.1/17

Out: 61.659 $\pm$ 0.014 χ^2 /NDF: 299015.6/21

All: 60.974 $\pm$ 0.010 χ^2 /NDF: 579692.9/39

asym_sam8_reg_correction_mean vs Slug, Sign Corrected



Right In: -111.885 $\pm$ 76.212 χ^2 /NDF: 18.5/15

Left Out: -63.748 $\pm$ 160.020 χ^2 /NDF:6.3/2

Right Out: -4.893 $\pm$ 63.933 χ^2 /NDF: 11.6/18

Left In: 190.958 $\pm$ 188.997 χ^2 /NDF:2.3/1

Left: 42.603 $\pm$ 122.125 χ^2 /NDF: 9.7/4

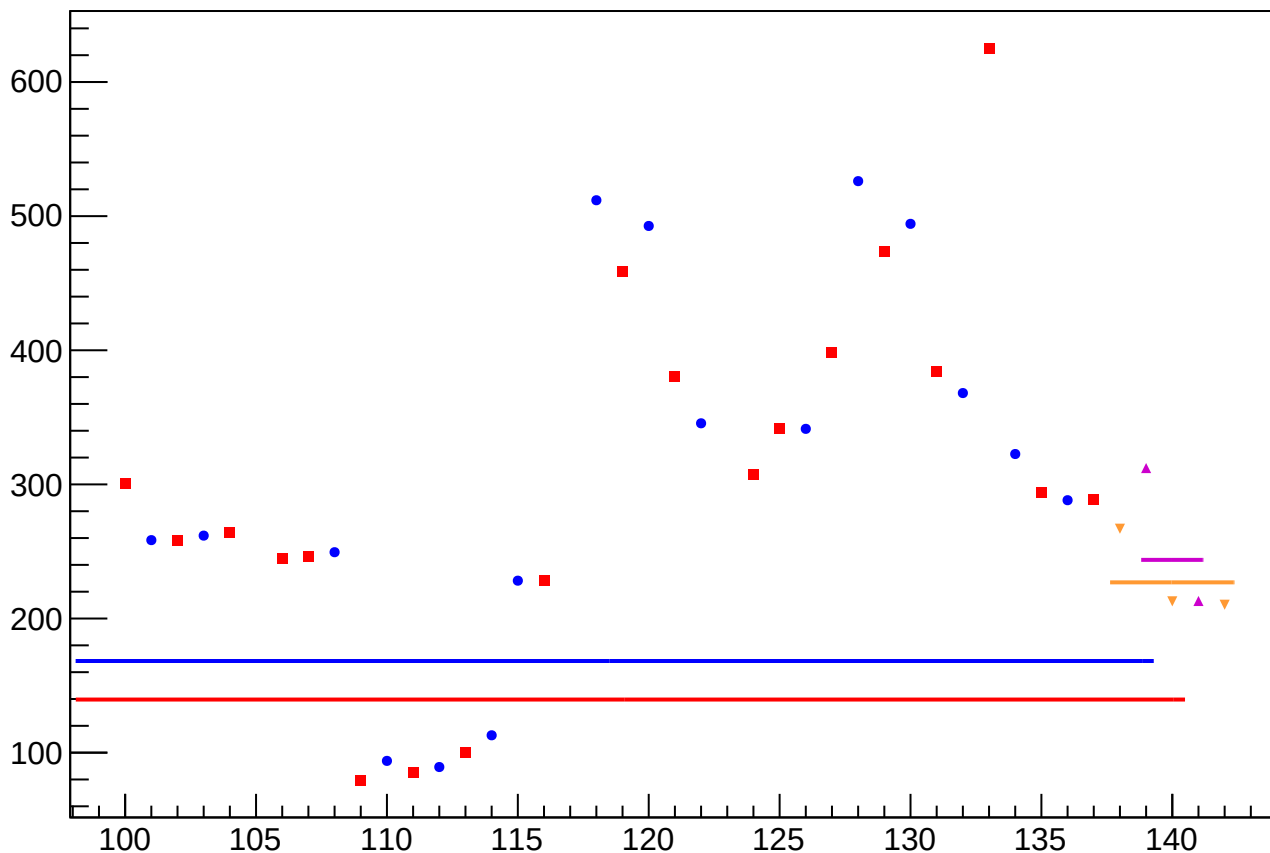
Right: -49.085 $\pm$ 48.981 χ^2 /NDF: 31.3/34

In: -69.527 $\pm$ 70.682 χ^2 /NDF:23.0/17

Out: -12.994 $\pm$ 59.370 χ^2 /NDF:18.0/21

All: -36.380 $\pm$ 45.461 χ^2 /NDF: 41.4/39

asym_sam8_reg_correction_rms vs Slug, Sign Corrected



Right In: 168.330+/-0.054 χ^2/NDF : 4544046.8/15

Left Out: 226.963+/-0.113 χ^2/NDF : 47055.4/2

Right Out: 139.594+/-0.045 χ^2/NDF : 5154153.5/18

Left In: 243.728+/-0.134 χ^2/NDF : 117467.4/1

Left: 233.963+/-0.086 χ^2/NDF : 173688.9/4

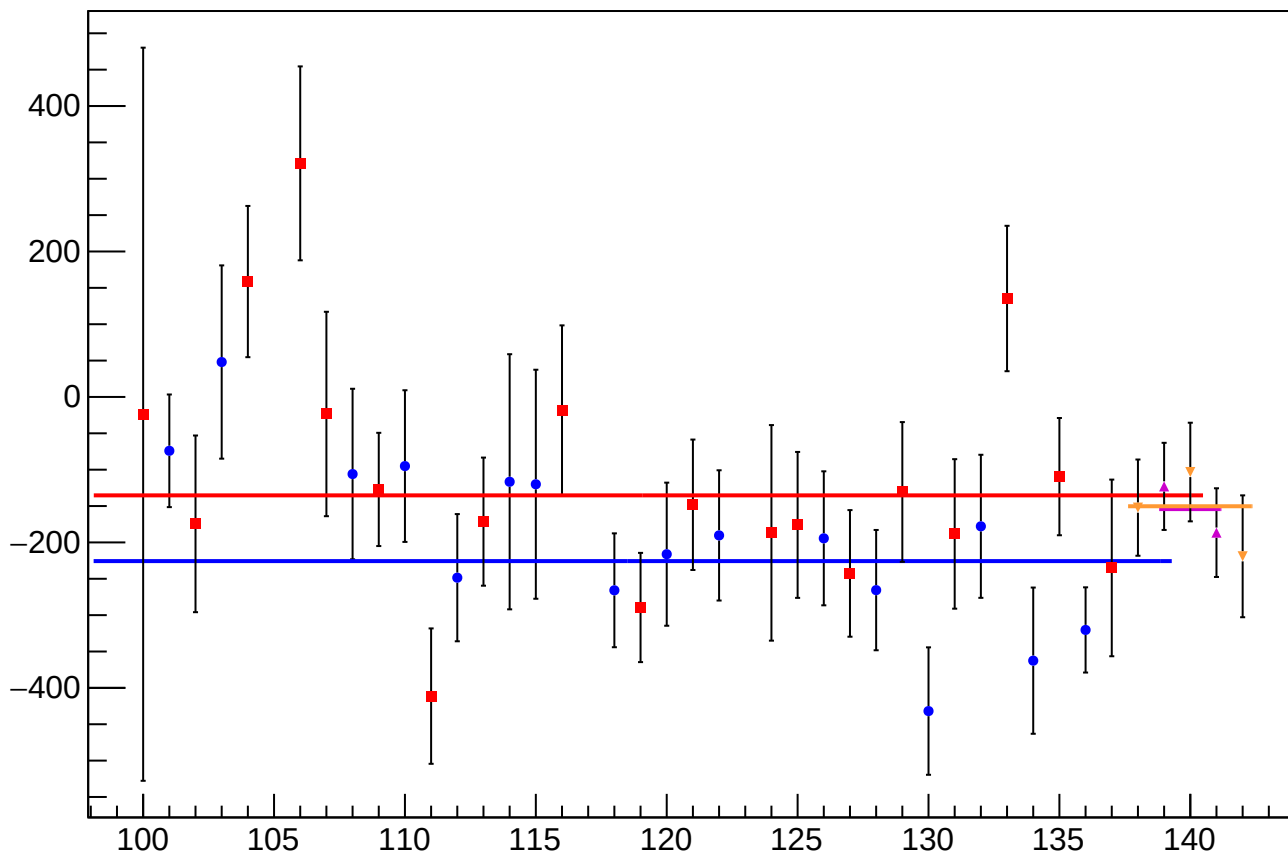
Right: 151.463+/-0.035 χ^2/NDF : 9865092.4/34

In: 178.875+/-0.050 χ^2/NDF : 4935302.8/17

Out: 151.620+/-0.042 χ^2/NDF : 5715353.2/21

All: 162.895+/-0.032 χ^2/NDF : 10825018.7/39

cor_asym_sam8_mean vs Slug, Sign Corrected



Right In: -225.692 ± 23.118 $\chi^2/\text{NDF}: 22.6/15$

Left Out: -150.287 ± 41.223 $\chi^2/\text{NDF}: 1.2/2$

Right Out: -135.311 ± 23.205 $\chi^2/\text{NDF}: 44.9/18$

Left In: -154.185 ± 42.727 $\chi^2/\text{NDF}: 0.6/1$

Left: -152.167 ± 29.667 $\chi^2/\text{NDF}: 1.7/4$

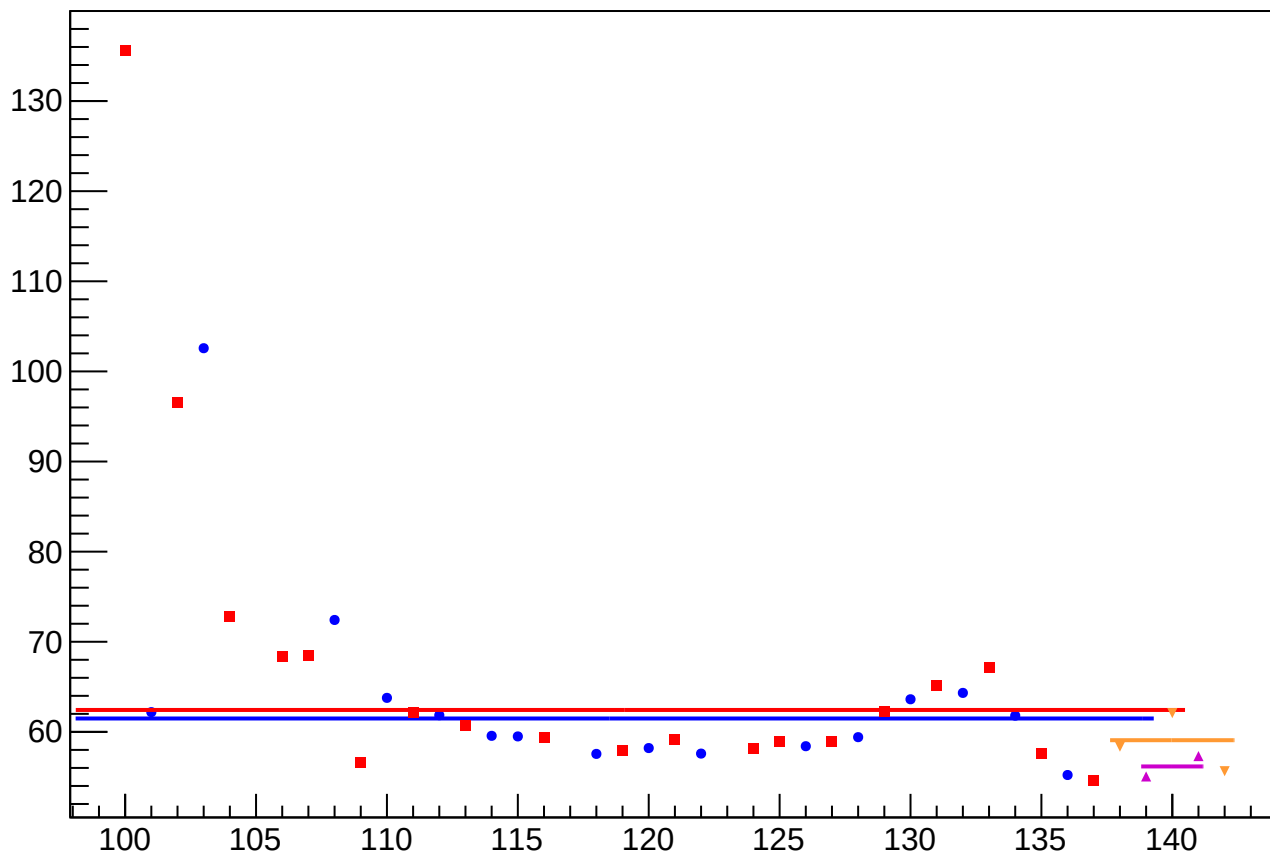
Right: -180.670 ± 16.378 $\chi^2/\text{NDF}: 75.1/34$

In: -209.499 ± 20.333 $\chi^2/\text{NDF}: 25.3/17$

Out: -138.915 ± 20.221 $\chi^2/\text{NDF}: 46.1/21$

All: -174.012 ± 14.338 $\chi^2/\text{NDF}: 77.5/39$

cor_asym_sam8_rms vs Slug, Sign Corrected



Right In: 61.486+/-0.016 χ^2/NDF : 250671.7/15

Left Out: 59.077+/-0.029 χ^2/NDF : 7540.0/2

Right Out: 62.433+/-0.016 χ^2/NDF : 279408.8/18

Left In: 56.165+/-0.030 χ^2/NDF : 1398.1/1

Left: 57.673+/-0.021 χ^2/NDF : 13748.9/4

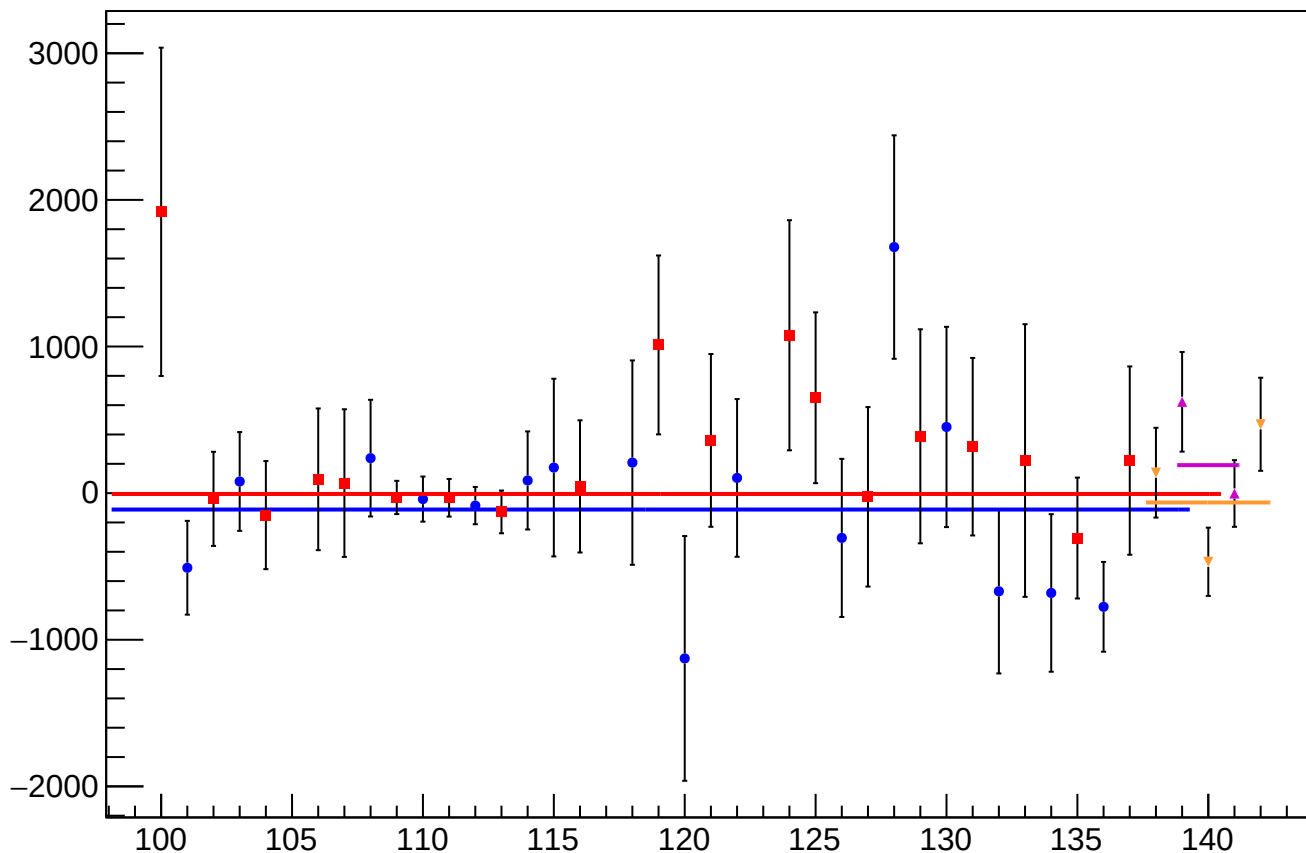
Right: 61.958+/-0.012 χ^2/NDF : 531751.4/34

In: 60.281+/-0.014 χ^2/NDF : 276061.7/17

Out: 61.625+/-0.014 χ^2/NDF : 297013.2/21

All: 60.957+/-0.010 χ^2/NDF : 577469.7/39

asym_sam8_cor_correction_mean vs Slug, Sign Corrected



Right In: -111.866+/-76.213 χ^2/NDF : 18.5/15

Left Out: -63.748+/-160.020 χ^2/NDF : 6.3/2

Right Out: -5.616+/-64.085 χ^2/NDF : 11.6/18

Left In: 190.950+/-188.997 χ^2/NDF : 2.3/1

Left: 42.600+/-122.125 χ^2/NDF : 9.7/4

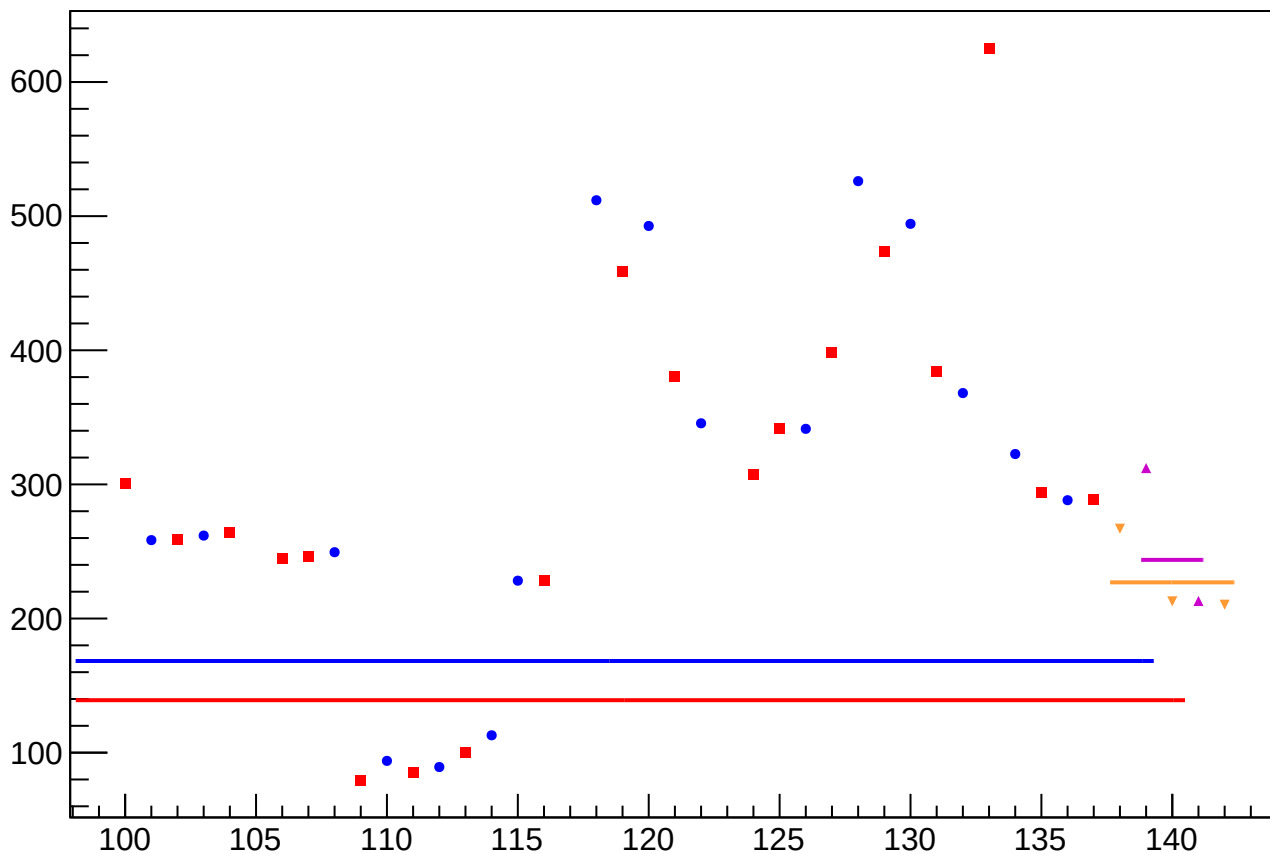
Right: -49.624+/-49.049 χ^2/NDF : 31.2/34

In: -69.513+/-70.682 χ^2/NDF : 23.0/17

Out: -13.651+/-59.491 χ^2/NDF : 18.0/21

All: -36.814+/-45.515 χ^2/NDF : 41.4/39

asym_sam8_cor_correction_rms vs Slug, Sign Corrected



Right In: 168.330+/-0.054 χ^2/NDF : 4544100.8/15

Left Out: 226.963+/-0.113 χ^2/NDF : 47053.7/2

Right Out: 139.105+/-0.045 χ^2/NDF : 5130011.5/18

Left In: 243.728+/-0.134 χ^2/NDF : 117467.1/1

Left: 233.963+/-0.086 χ^2/NDF : 173687.4/4

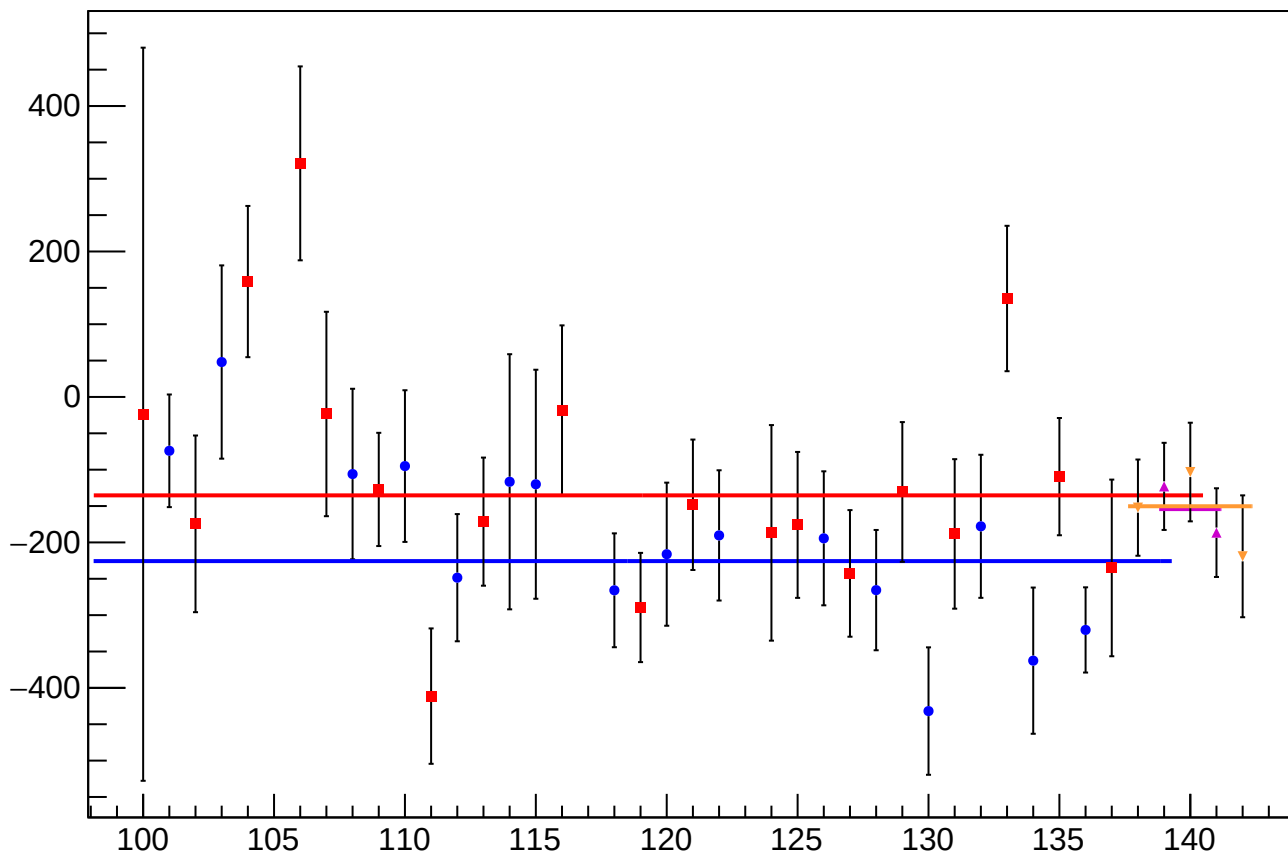
Right: 151.210+/-0.035 χ^2/NDF : 9846393.6/34

In: 178.876+/-0.050 χ^2/NDF : 4935355.7/17

Out: 151.248+/-0.042 χ^2/NDF : 5696636.0/21

All: 162.704+/-0.032 χ^2/NDF : 10810844.6/39

eigen_cor_asym_sam8_mean vs Slug, Sign Corrected



Right In: -225.692 $\pm$ 23.118 χ^2 /NDF: 22.6/15

Left Out: -150.287 $\pm$ 41.223 χ^2 /NDF:1.2/2

Right Out: -135.311 $\pm$ 23.205 χ^2 /NDF: 44.9/18

Left In: -154.185 $\pm$ 42.727 χ^2 /NDF:0.6/1

Left: -152.167 $\pm$ 29.667 χ^2 /NDF: 1.7/4

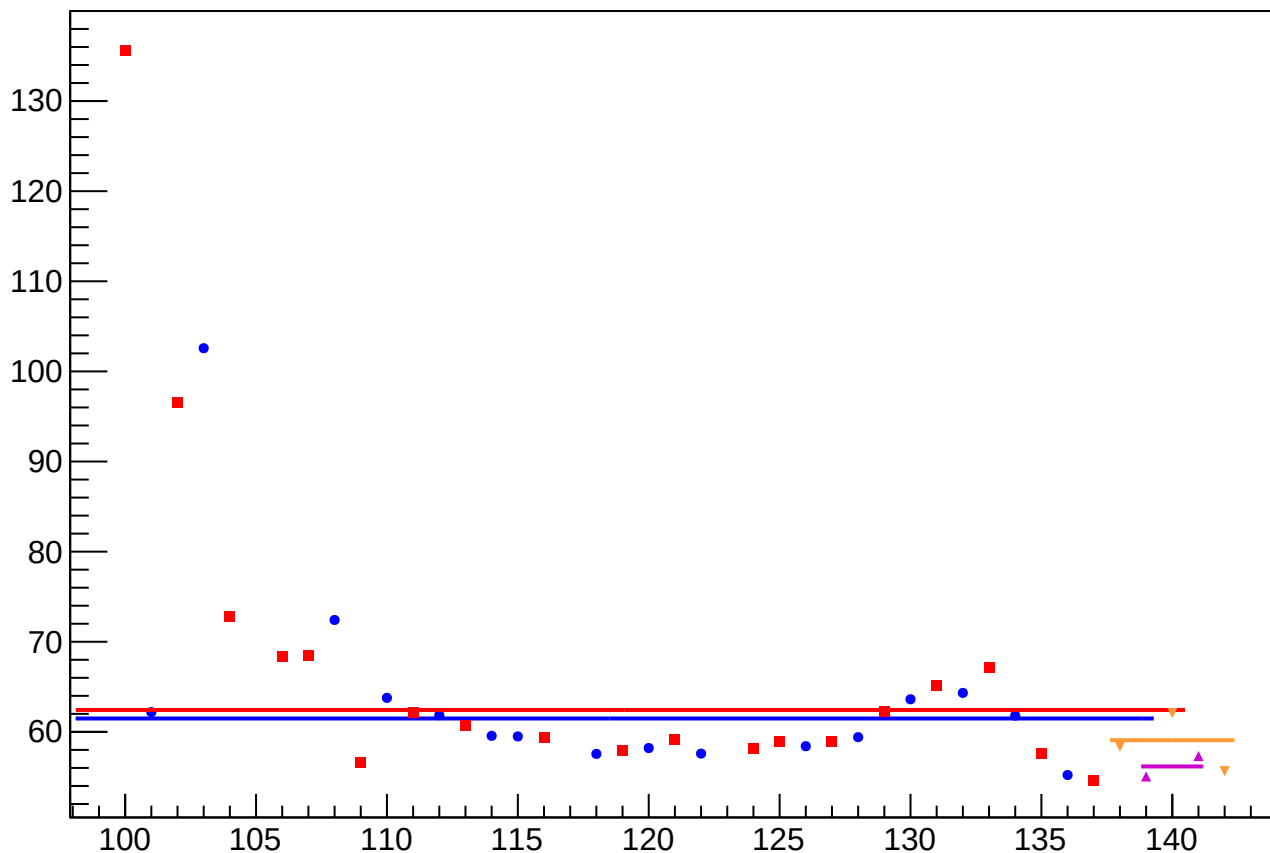
Right: -180.670 $\pm$ 16.378 χ^2 /NDF: 75.1/34

In: -209.499 $\pm$ 20.333 χ^2 /NDF:25.3/17

Out: -138.915 $\pm$ 20.221 χ^2 /NDF:46.1/21

All: -174.012 $\pm$ 14.338 χ^2 /NDF: 77.5/39

eigen_cor_asym_sam8_rms vs Slug, Sign Corrected



Right In: 61.486 $\pm$ 0.016 χ^2 /NDF: 250671.7/15

Left Out: 59.077 $\pm$ 0.029 χ^2 /NDF: 7540.0/2

Right Out: 62.433 $\pm$ 0.016 χ^2 /NDF: 279408.8/18

Left In: 56.165 $\pm$ 0.030 χ^2 /NDF: 1398.1/1

Left: 57.673 $\pm$ 0.021 χ^2 /NDF: 13748.9/4

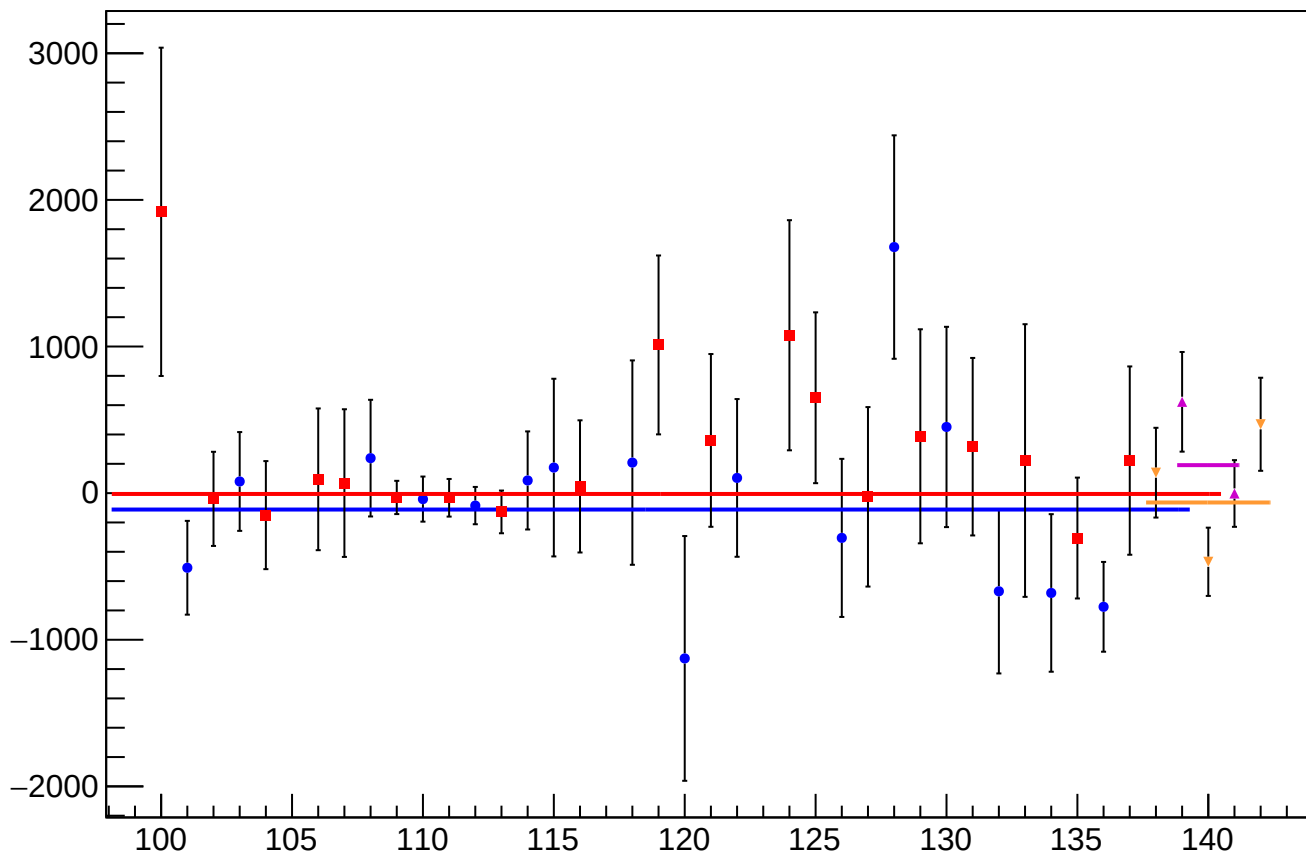
Right: 61.958 $\pm$ 0.012 χ^2 /NDF: 531751.4/34

In: 60.281 $\pm$ 0.014 χ^2 /NDF: 276061.7/17

Out: 61.625 $\pm$ 0.014 χ^2 /NDF: 297013.2/21

All: 60.957 $\pm$ 0.010 χ^2 /NDF: 577469.7/39

asym_sam8_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -111.866+/-76.213 χ^2/NDF : 18.5/15

Left Out: -63.748+/-160.020 χ^2/NDF : 6.3/2

Right Out: -5.616+/-64.085 χ^2/NDF : 11.6/18

Left In: 190.950+/-188.997 χ^2/NDF : 2.3/1

Left: 42.600+/-122.125 χ^2/NDF : 9.7/4

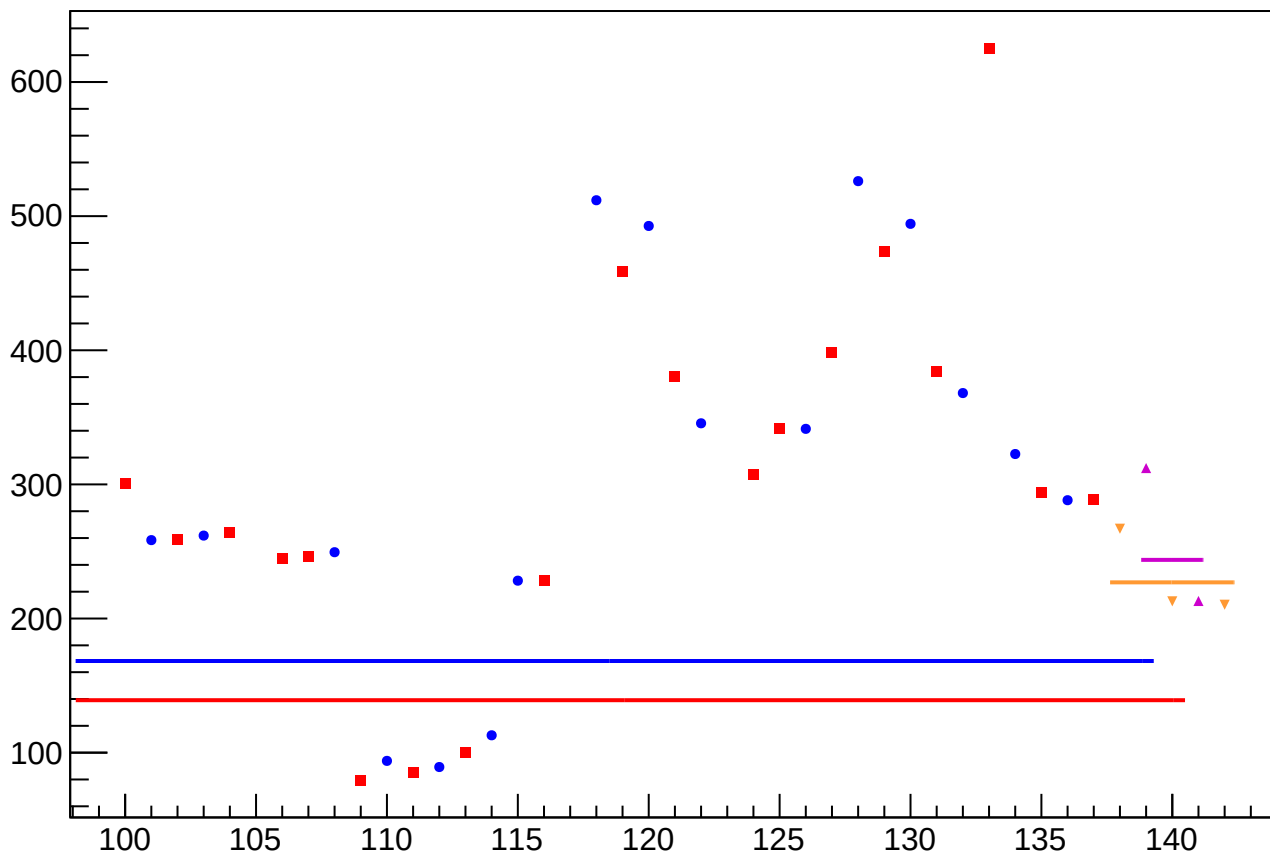
Right: -49.624+/-49.049 χ^2/NDF : 31.2/34

In: -69.513+/-70.682 χ^2/NDF : 23.0/17

Out: -13.651+/-59.491 χ^2/NDF : 18.0/21

All: -36.814+/-45.515 χ^2/NDF : 41.4/39

asym_sam8_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 168.330 $\pm$ 0.054 χ^2 /NDF: 4544100.8/15

Left Out: 226.963 $\pm$ 0.113 χ^2 /NDF: 47053.7/2

Right Out: 139.105 $\pm$ 0.045 χ^2 /NDF: 5130011.5/18

Left In: 243.728 $\pm$ 0.134 χ^2 /NDF: 117467.1/1

Left: 233.963 $\pm$ 0.086 χ^2 /NDF: 173687.4/4

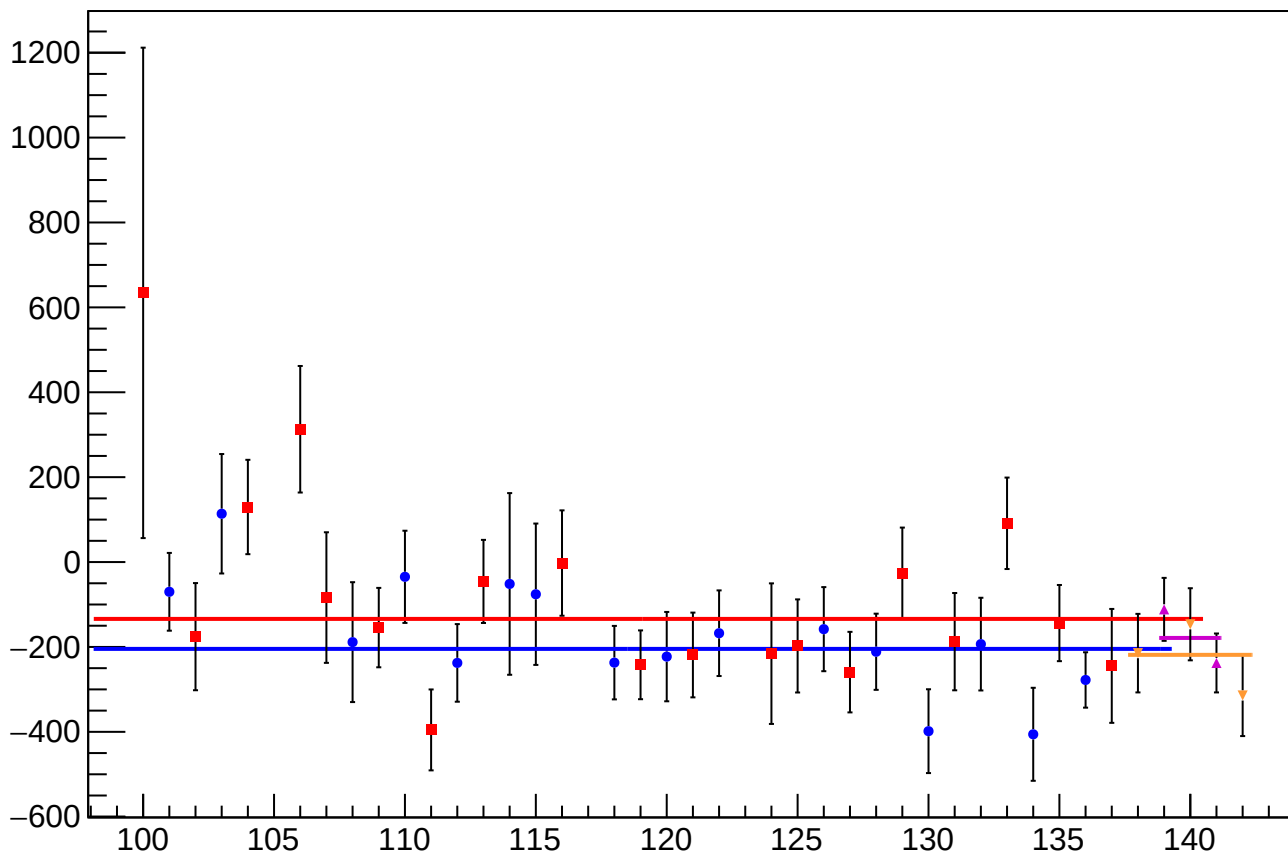
Right: 151.210 $\pm$ 0.035 χ^2 /NDF: 9846393.6/34

In: 178.876 $\pm$ 0.050 χ^2 /NDF: 4935355.7/17

Out: 151.248 $\pm$ 0.042 χ^2 /NDF: 5696636.0/21

All: 162.704 $\pm$ 0.032 χ^2 /NDF: 10810844.6/39

dit_asym_sam8_mean vs Slug, Sign Corrected



Right In: -204.577 ± 25.523 $\chi^2/\text{NDF}: 20.0/15$

Left Out: -218.596 ± 52.366 $\chi^2/\text{NDF}: 1.7/2$

Right Out: -133.924 ± 25.484 $\chi^2/\text{NDF}: 37.2/18$

Left In: -178.771 ± 50.676 $\chi^2/\text{NDF}: 1.5/1$

Left: -198.030 ± 36.416 $\chi^2/\text{NDF}: 3.6/4$

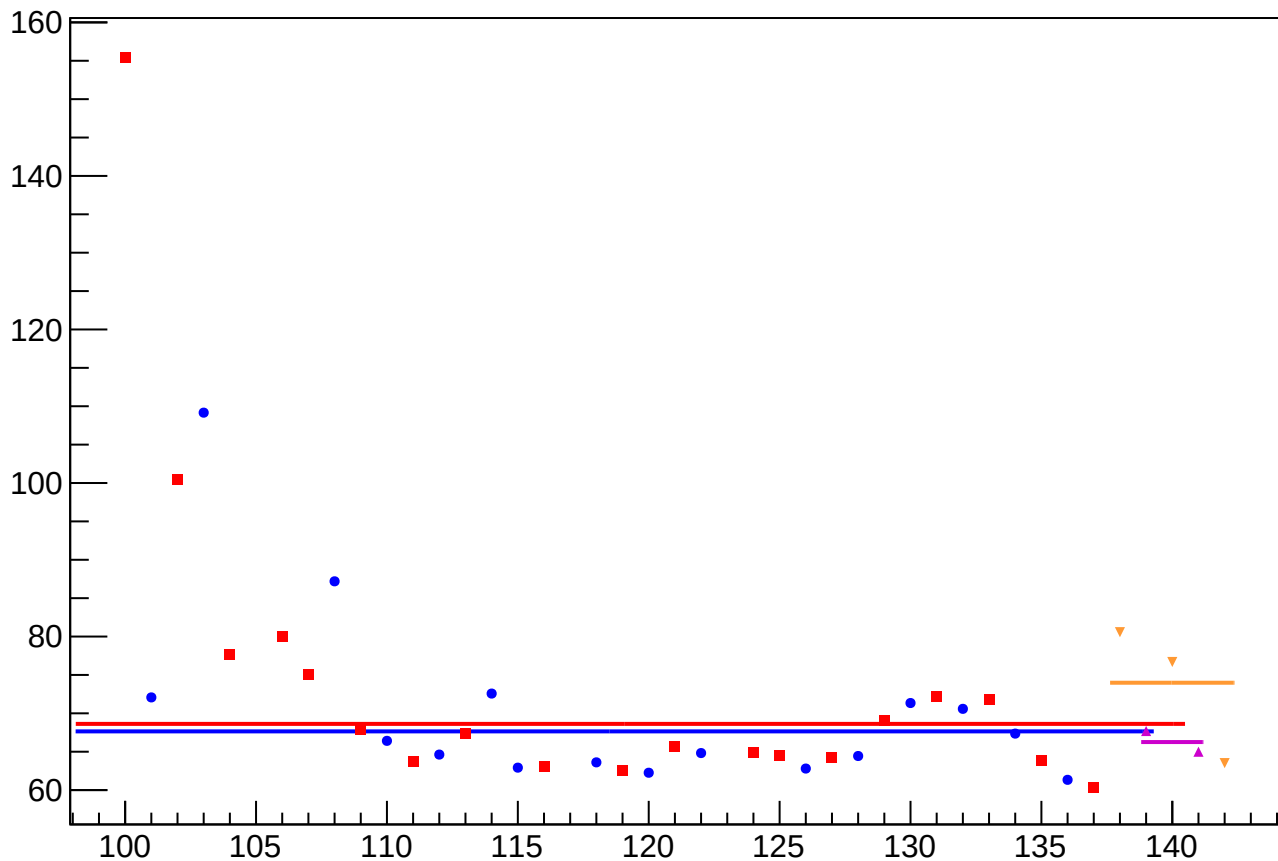
Right: -169.195 ± 18.034 $\chi^2/\text{NDF}: 61.1/34$

In: -199.355 ± 22.795 $\chi^2/\text{NDF}: 21.7/17$

Out: -150.137 ± 22.914 $\chi^2/\text{NDF}: 41.1/21$

All: -174.874 ± 16.161 $\chi^2/\text{NDF}: 65.1/39$

dit_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.647 $\pm$ 0.018 χ^2 /NDF: 263669.9/15

Left Out: 73.986 $\pm$ 0.037 χ^2 /NDF: 36099.5/2

Right Out: 68.624 $\pm$ 0.018 χ^2 /NDF: 248164.6/18

Left In: 66.258 $\pm$ 0.036 χ^2 /NDF: 1408.6/1

Left: 69.995 $\pm$ 0.026 χ^2 /NDF: 60000.4/4

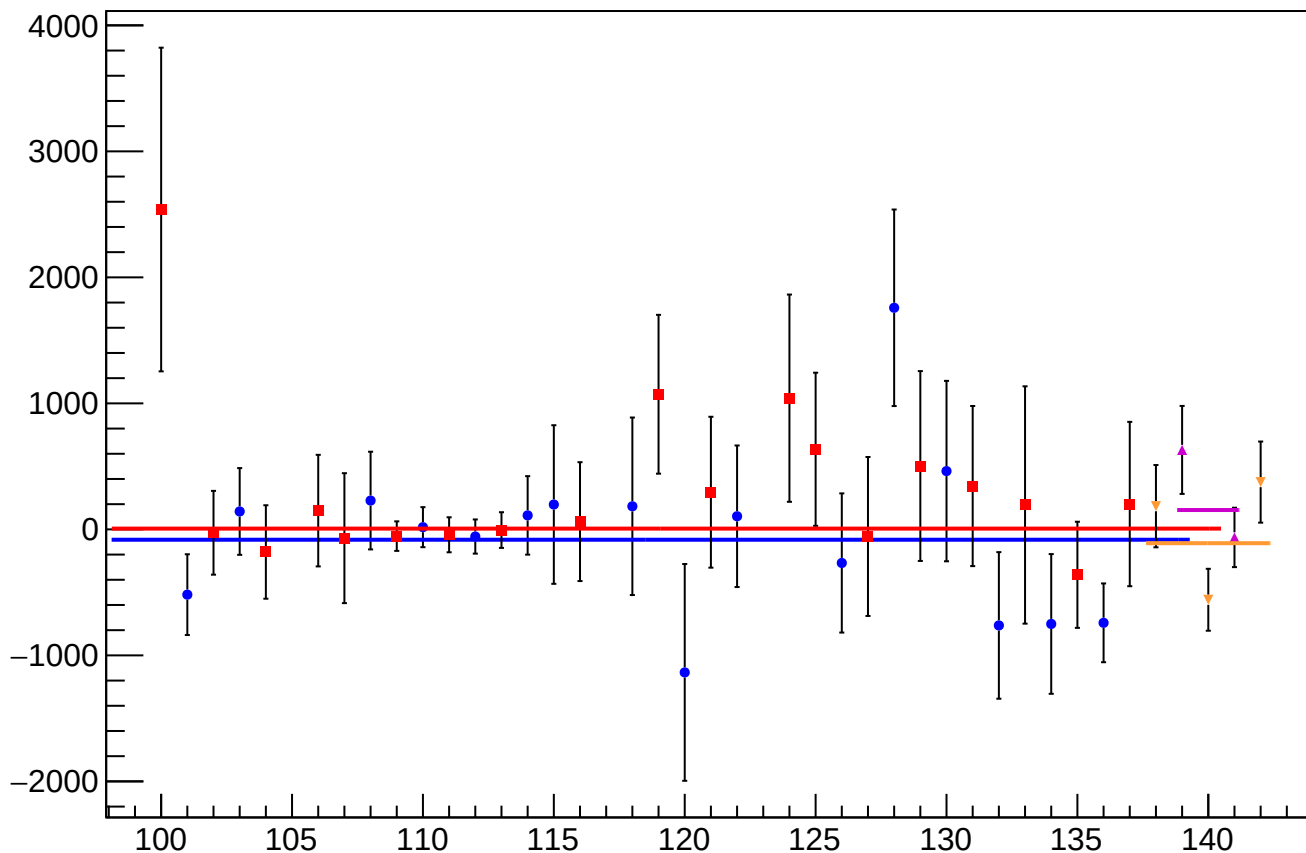
Right: 68.136 $\pm$ 0.013 χ^2 /NDF: 513300.5/34

In: 67.366 $\pm$ 0.016 χ^2 /NDF: 266278.2/17

Out: 69.651 $\pm$ 0.016 χ^2 /NDF: 301216.2/21

All: 68.502 $\pm$ 0.011 χ^2 /NDF: 577484.2/39

asym_sam8_dit_correction_mean vs Slug, Sign Corrected



Right In: -82.228 ± 78.676 χ^2/NDF : 19.2/15

Left Out: -109.629 ± 167.612 χ^2/NDF : 6.4/2

Right Out: 6.063 ± 65.910 χ^2/NDF : 12.0/18

Left In: 153.535 ± 195.350 χ^2/NDF : 2.7/1

Left: 1.958 ± 127.206 χ^2/NDF : 10.2/4

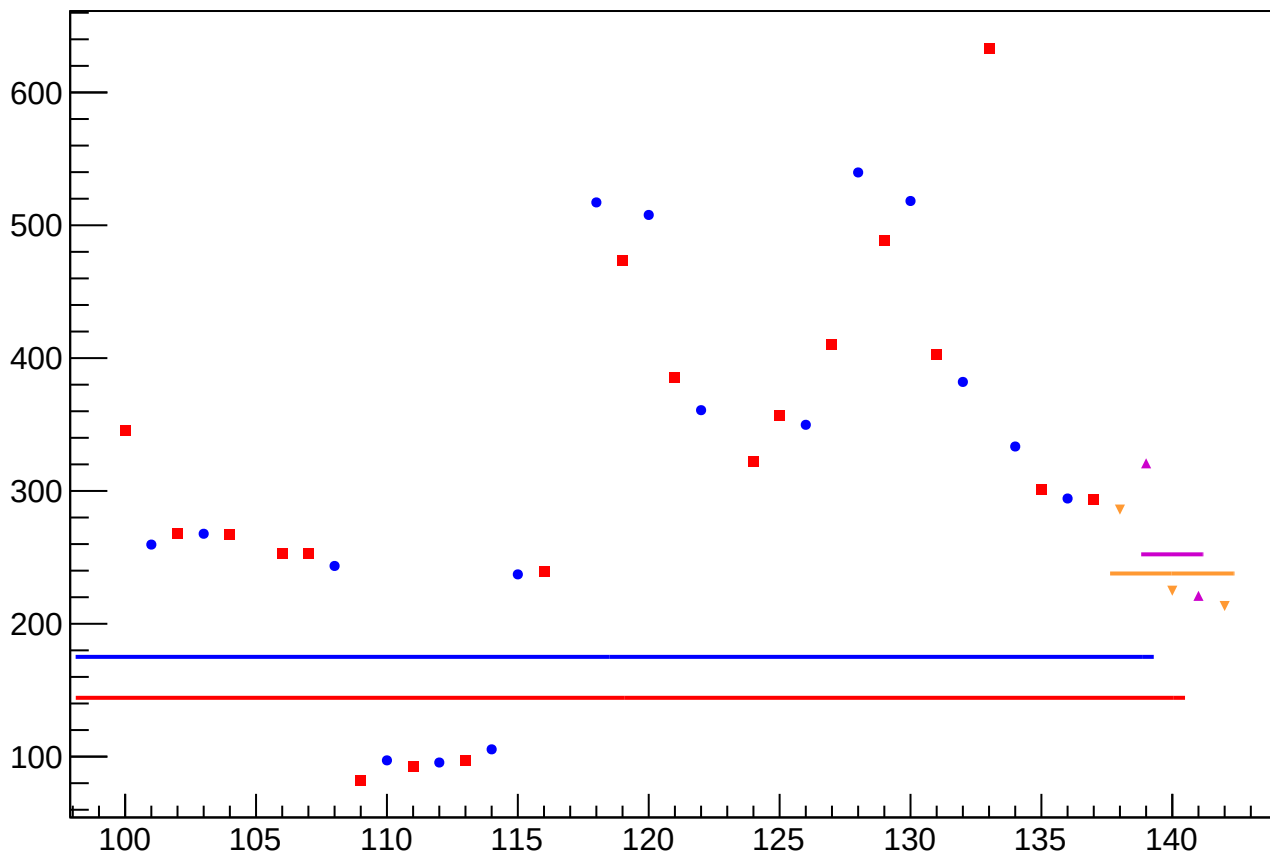
Right: -30.347 ± 50.524 χ^2/NDF : 32.0/34

In: -49.323 ± 72.980 χ^2/NDF : 23.2/17

Out: -9.431 ± 61.338 χ^2/NDF : 18.9/21

All: -25.945 ± 46.956 χ^2/NDF : 42.2/39

asym_sam8_dit_correction_rms vs Slug, Sign Corrected



Right In: 175.099 $\pm$ 0.056 χ^2/NDF : 4429076.5/15

Left Out: 237.855 $\pm$ 0.119 χ^2/NDF : 60528.3/2

Right Out: 144.276 $\pm$ 0.047 χ^2/NDF : 5132432.2/18

Left In: 252.278 $\pm$ 0.138 χ^2/NDF : 112165.2/1

Left: 243.970 $\pm$ 0.090 χ^2/NDF : 178973.1/4

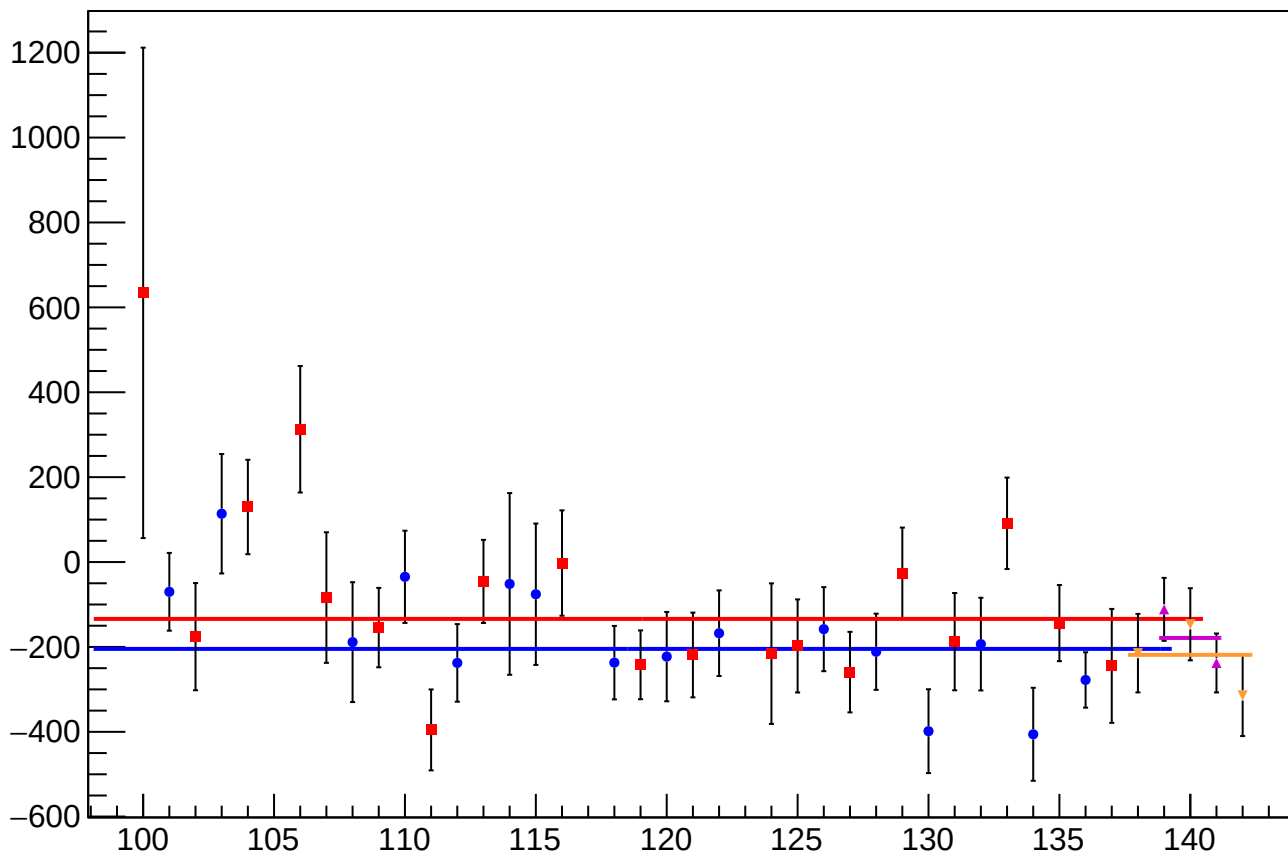
Right: 156.987 $\pm$ 0.036 χ^2/NDF : 9741889.9/34

In: 185.871 $\pm$ 0.052 χ^2/NDF : 4809846.3/17

Out: 156.808 $\pm$ 0.043 χ^2/NDF : 5732880.1/21

All: 168.840 $\pm$ 0.033 χ^2/NDF : 10728594.8/39

eigen_dit_asym_sam8_mean vs Slug, Sign Corrected



Right In: -204.577 ± 25.523 $\chi^2/\text{NDF}: 20.0/15$

Left Out: -218.598 ± 52.366 $\chi^2/\text{NDF}: 1.7/2$

Right Out: -133.926 ± 25.483 $\chi^2/\text{NDF}: 37.2/18$

Left In: -178.770 ± 50.676 $\chi^2/\text{NDF}: 1.5/1$

Left: -198.031 ± 36.416 $\chi^2/\text{NDF}: 3.6/4$

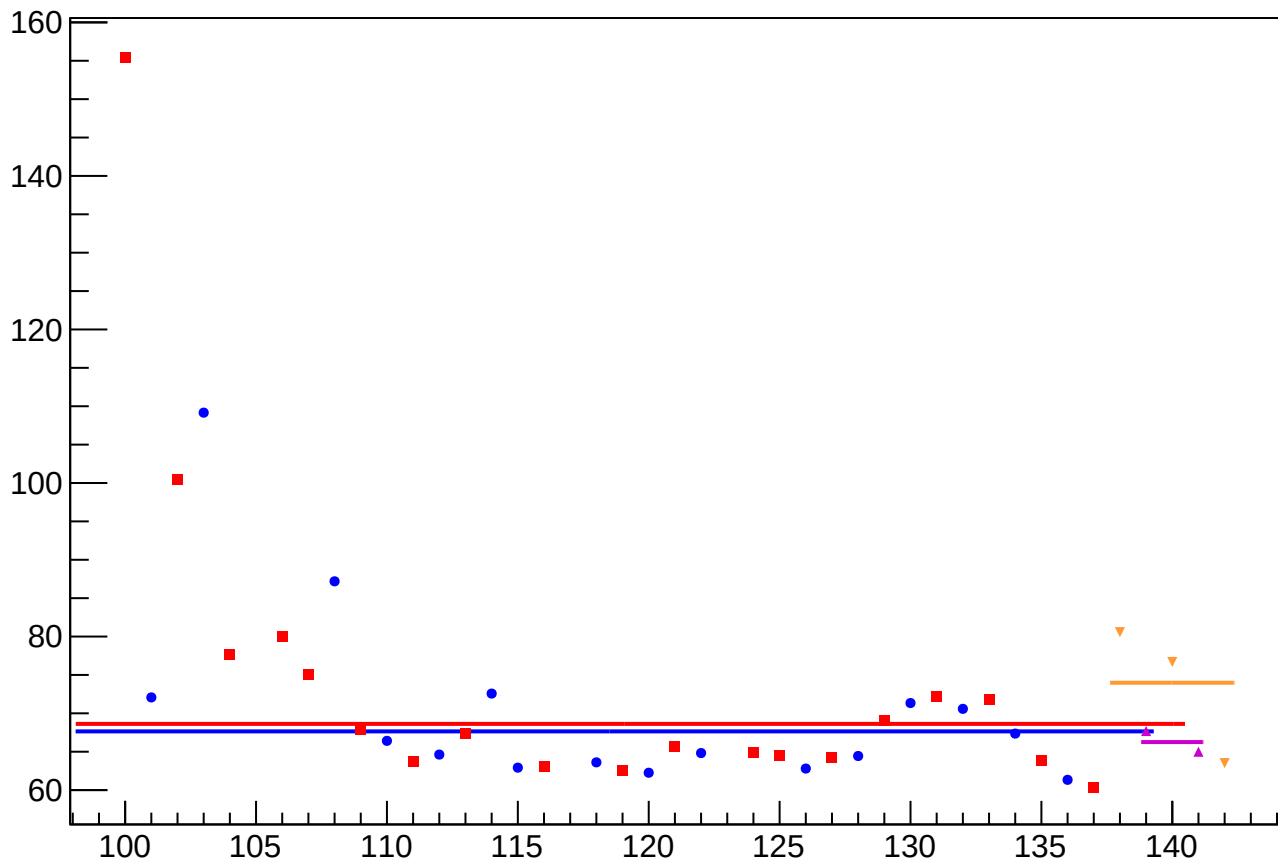
Right: -169.196 ± 18.034 $\chi^2/\text{NDF}: 61.1/34$

In: -199.355 ± 22.795 $\chi^2/\text{NDF}: 21.7/17$

Out: -150.138 ± 22.914 $\chi^2/\text{NDF}: 41.1/21$

All: -174.875 ± 16.161 $\chi^2/\text{NDF}: 65.1/39$

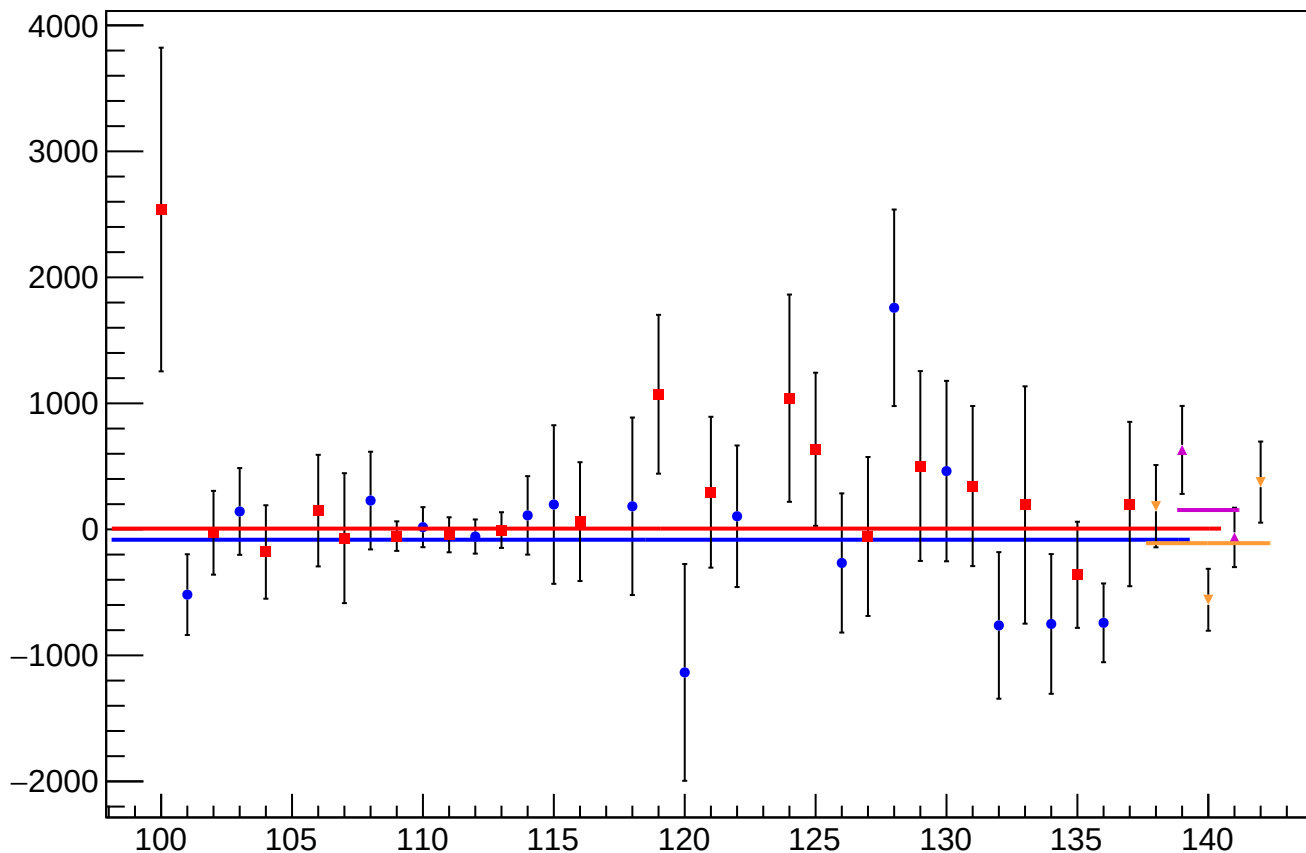
eigen_dit_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.647+/-0.018 χ^2/NDF : 263668.9/15
 Left Out: 73.986+/-0.037 χ^2/NDF : 36098.6/2
 Right Out: 68.624+/-0.018 χ^2/NDF : 248166.1/18
 Left In: 66.258+/-0.036 χ^2/NDF : 1408.5/1

Left: 69.995+/-0.026 χ^2/NDF : 59999.6/4
 Right: 68.136+/-0.013 χ^2/NDF : 513301.0/34
 In: 67.366+/-0.016 χ^2/NDF : 266276.9/17
 Out: 69.650+/-0.016 χ^2/NDF : 301218.1/21
 All: 68.502+/-0.011 χ^2/NDF : 577484.6/39

asym_sam8_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -82.226 ± 78.675 χ^2/NDF : 19.2/15

Left Out: -109.630 ± 167.611 χ^2/NDF : 6.4/2

Right Out: 6.062 ± 65.910 χ^2/NDF : 12.0/18

Left In: 153.536 ± 195.349 χ^2/NDF : 2.7/1

Left: 1.958 ± 127.205 χ^2/NDF : 10.2/4

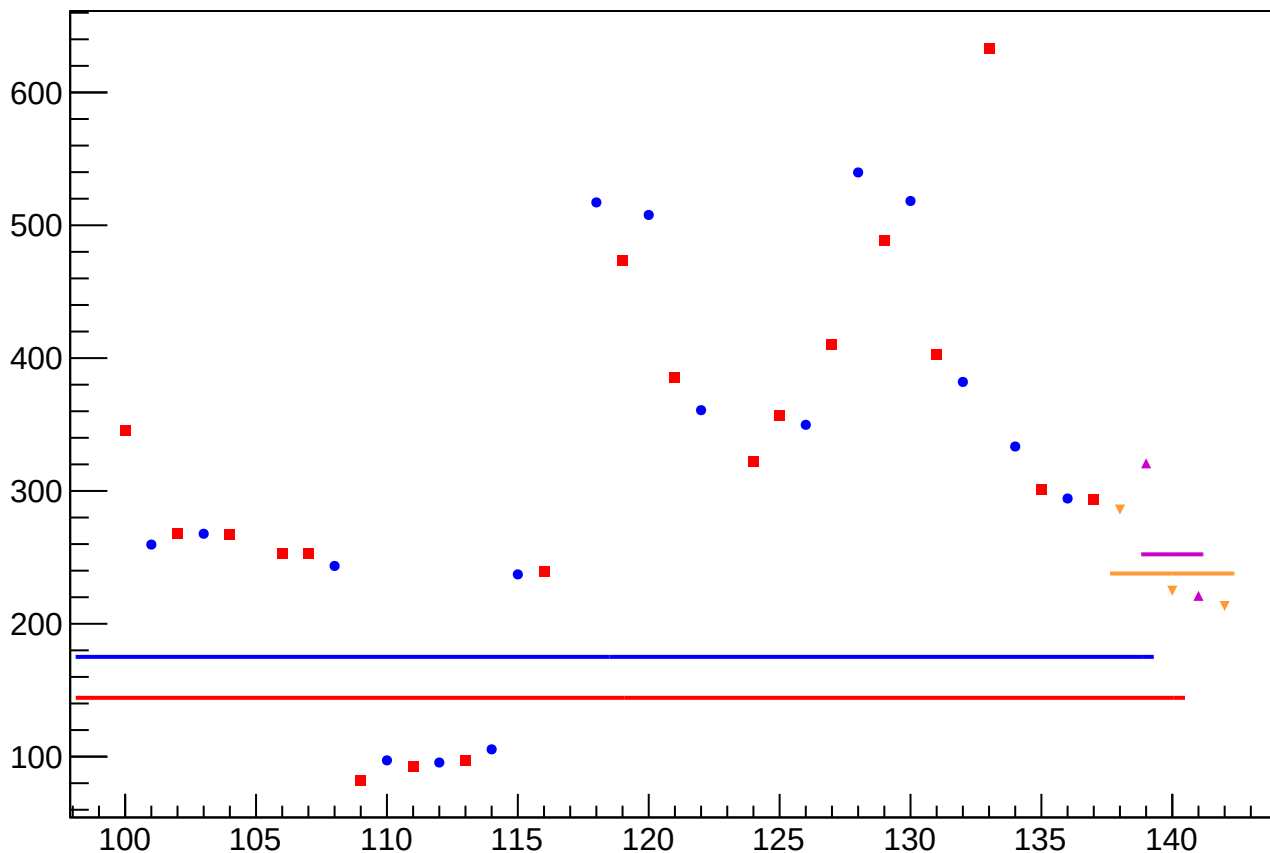
Right: -30.347 ± 50.524 χ^2/NDF : 32.0/34

In: -49.322 ± 72.979 χ^2/NDF : 23.2/17

Out: -9.432 ± 61.338 χ^2/NDF : 18.9/21

All: -25.946 ± 46.956 χ^2/NDF : 42.2/39

asym_sam8_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 175.098 $\pm$ 0.056 χ^2/NDF : 4429098.4/15

Left Out: 237.854 $\pm$ 0.119 χ^2/NDF : 60526.8/2

Right Out: 144.276 $\pm$ 0.047 χ^2/NDF : 5132412.3/18

Left In: 252.277 $\pm$ 0.138 χ^2/NDF : 112164.0/1

Left: 243.969 $\pm$ 0.090 χ^2/NDF : 178970.4/4

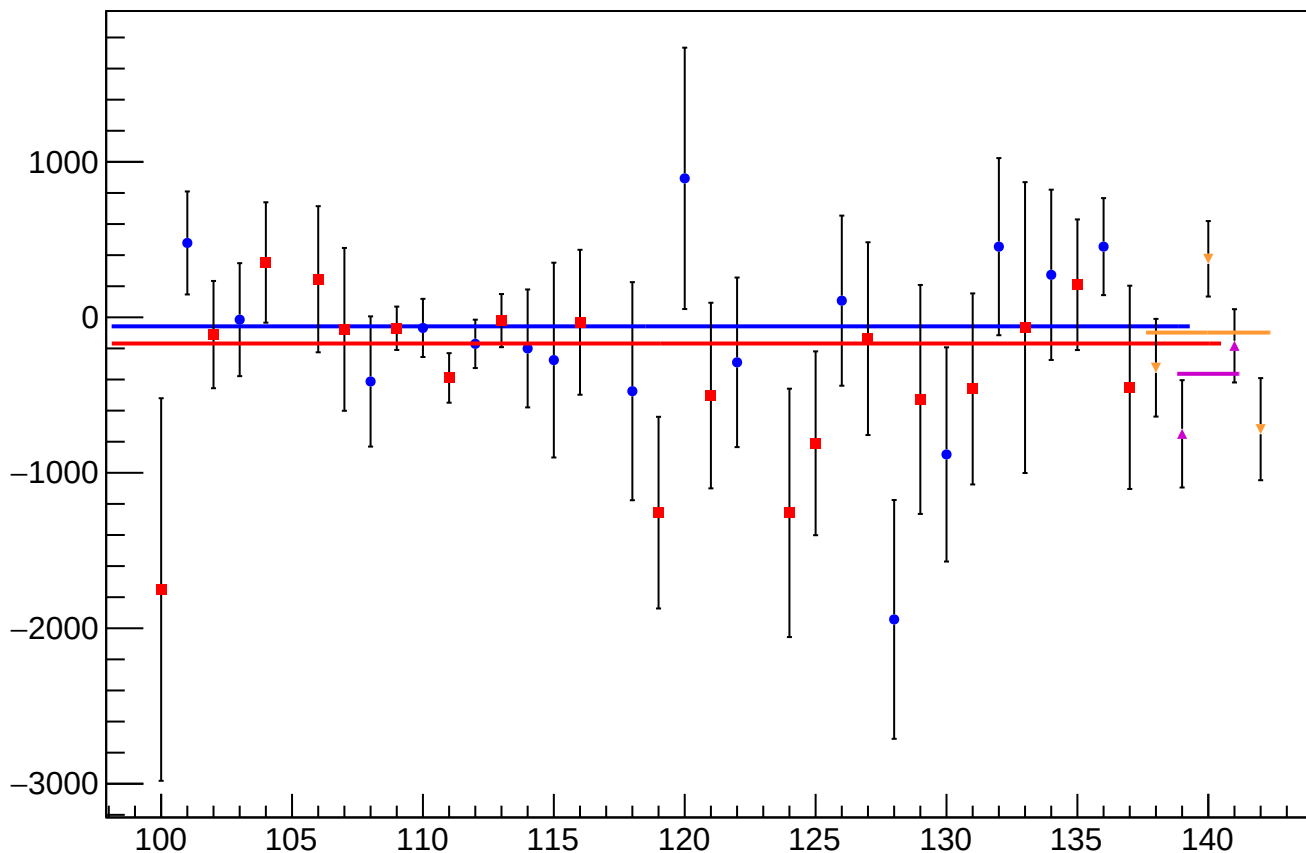
Right: 156.987 $\pm$ 0.036 χ^2/NDF : 9741880.9/34

In: 185.869 $\pm$ 0.052 χ^2/NDF : 4809872.3/17

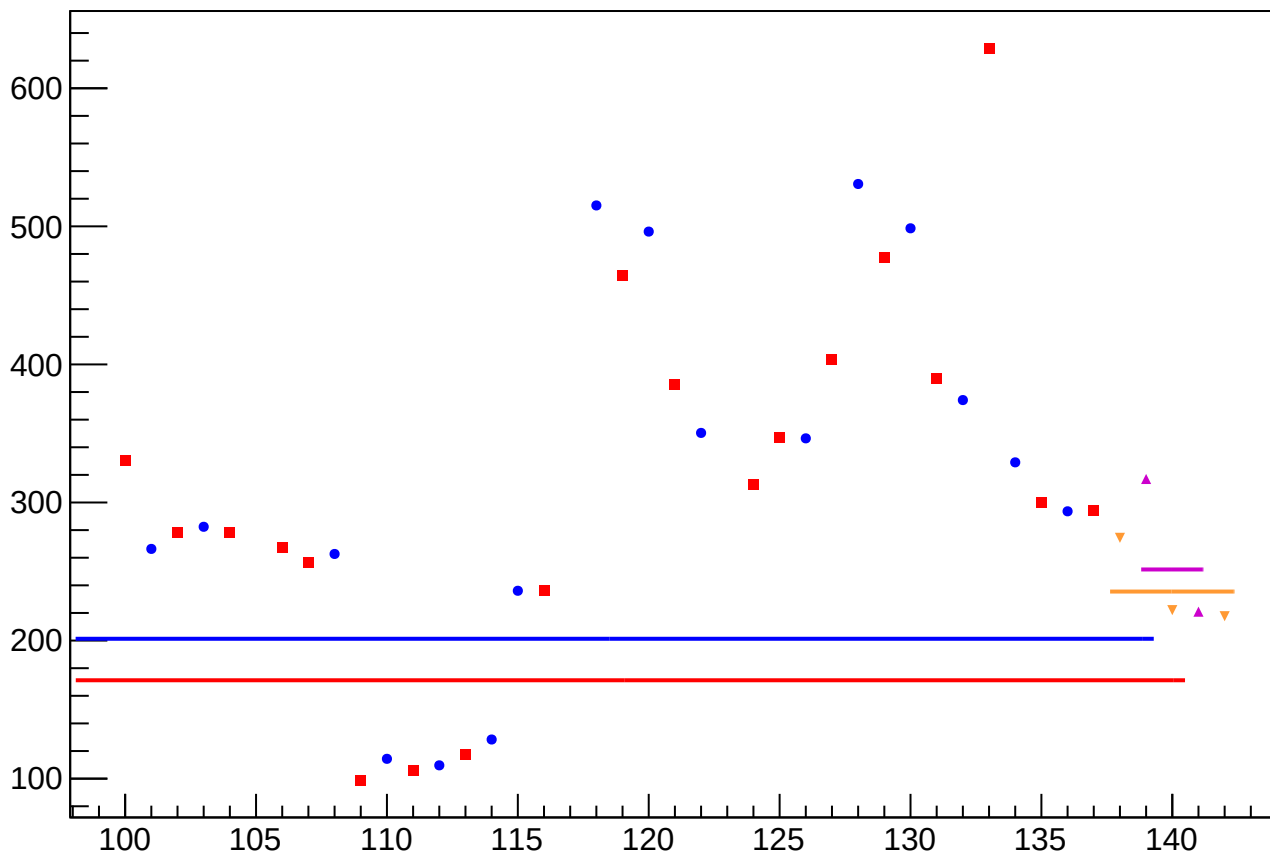
Out: 156.808 $\pm$ 0.043 χ^2/NDF : 5732855.7/21

All: 168.839 $\pm$ 0.033 χ^2/NDF : 10728585.3/39

asym_sam8_mean vs Slug, Sign Corrected



asym_sam8_rms vs Slug, Sign Corrected



Right In: 201.301+/-0.061 χ^2/NDF : 3572199.4/15

Left Out: 235.504+/-0.117 χ^2/NDF : 42736.7/2

Right Out: 171.252+/-0.053 χ^2/NDF : 4192554.2/18

Left In: 251.493+/-0.138 χ^2/NDF : 105768.5/1

Left: 242.229+/-0.089 χ^2/NDF : 156326.0/4

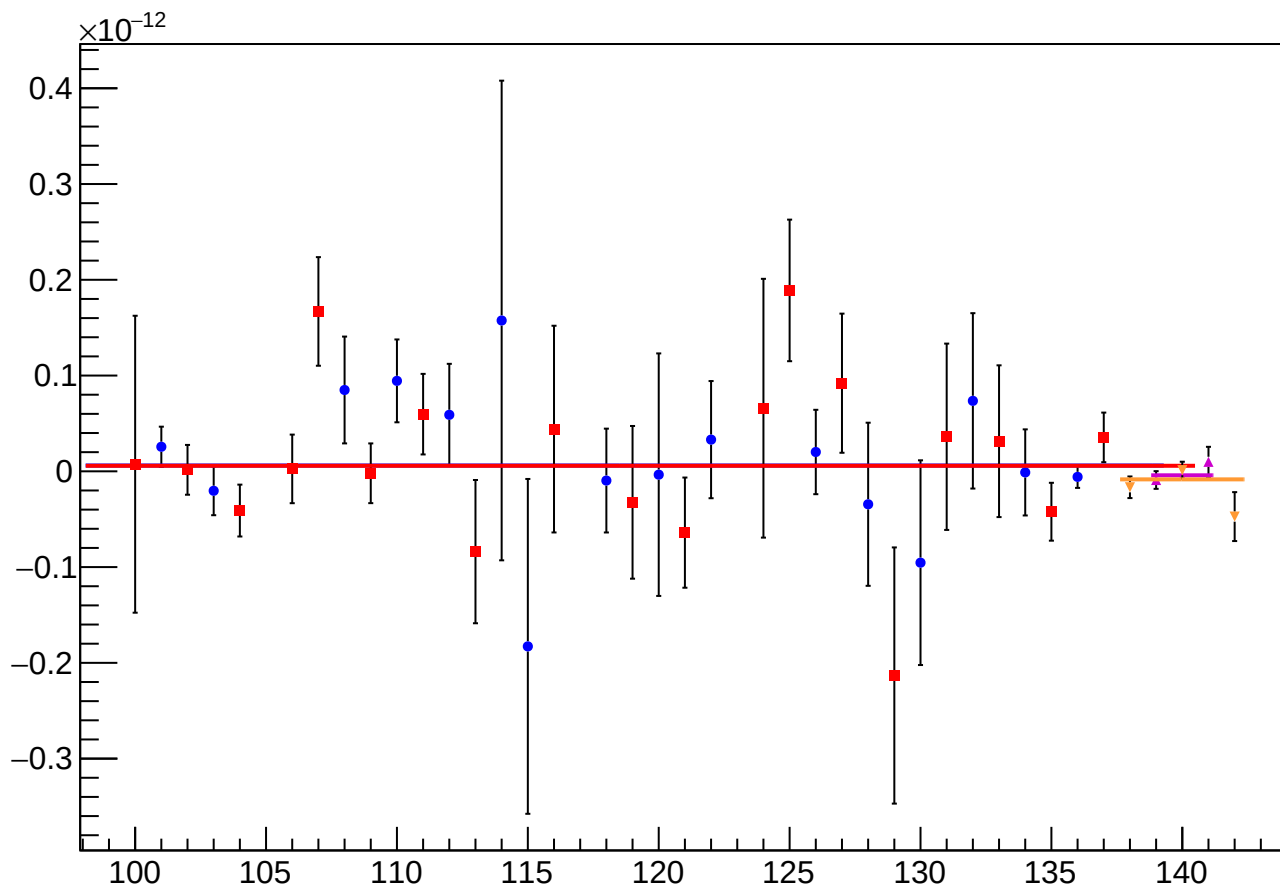
Right: 184.002+/-0.040 χ^2/NDF : 7902458.5/34

In: 209.643+/-0.056 χ^2/NDF : 3788874.9/17

Out: 182.066+/-0.048 χ^2/NDF : 4485025.9/21

All: 193.750+/-0.037 χ^2/NDF : 8413136.8/39

asym_sam8_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 13.8/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:4.0/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 30.5/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:1.1/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 5.3/4

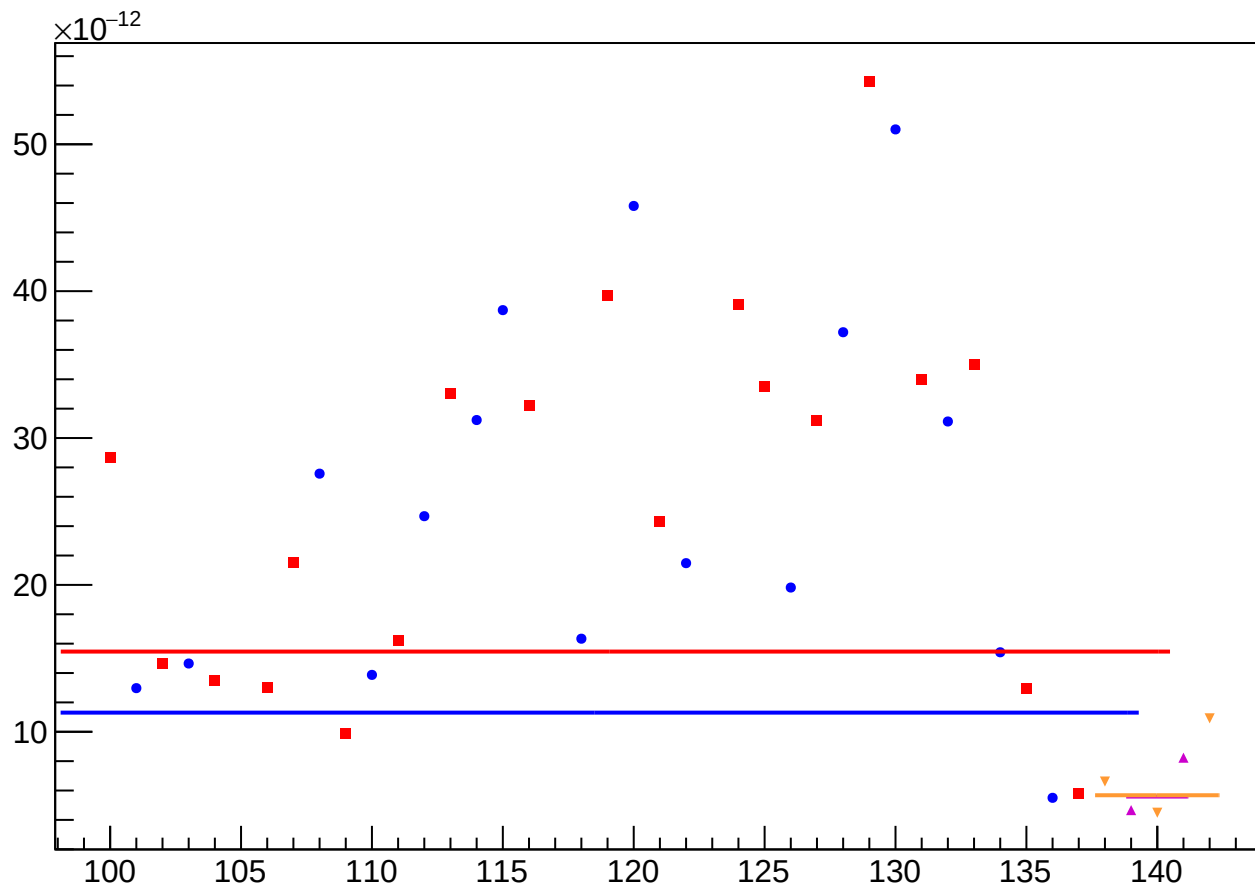
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 44.3/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:15.7/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:35.9/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 52.0/39

asym_sam8_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1788731.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :134256.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1442096.6/18

Left In: 0.000+/-0.000 χ^2/NDF :77085.7/1

Left: 0.000+/-0.000 χ^2/NDF : 211494.3/4

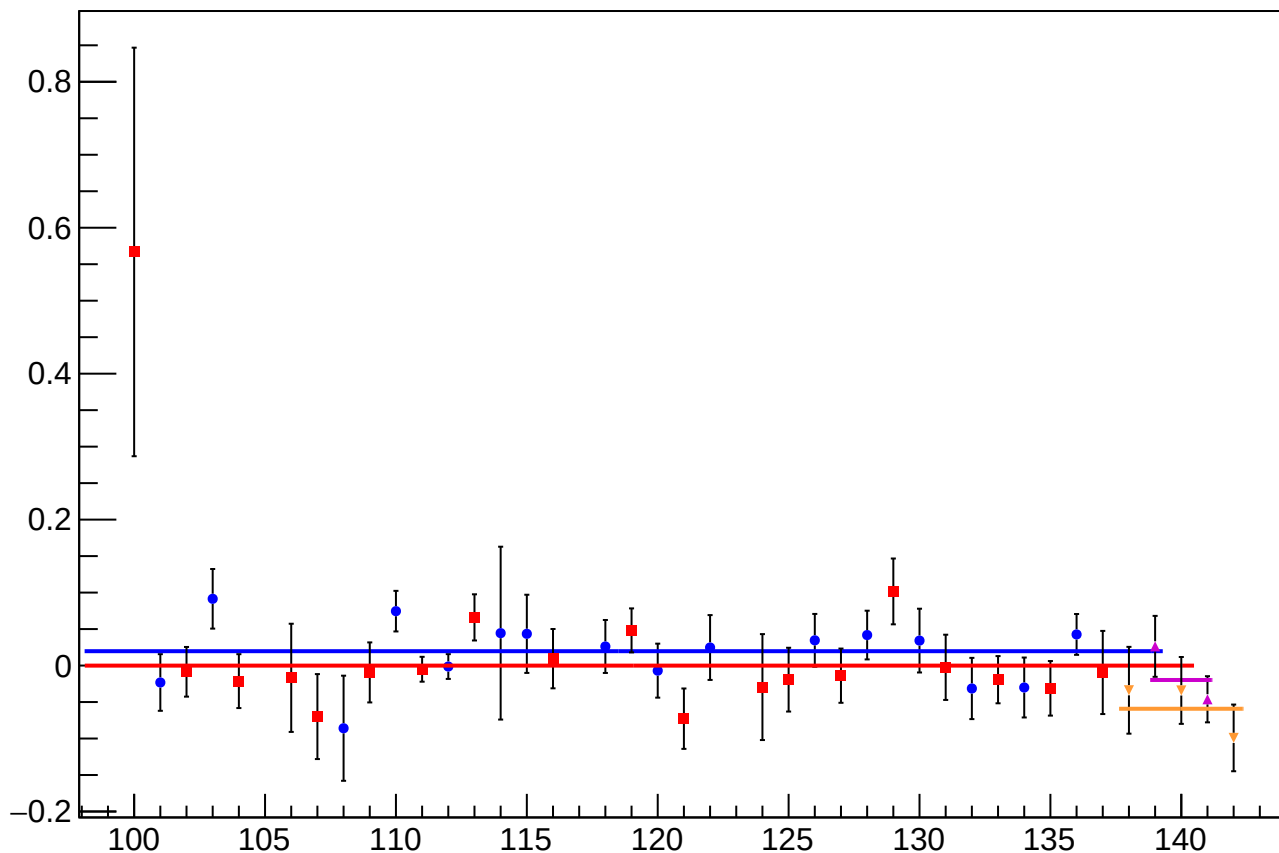
Right: 0.000+/-0.000 χ^2/NDF : 3431603.8/34

In: 0.000+/-0.000 χ^2/NDF :2362592.5/17

Out: 0.000+/-0.000 χ^2/NDF :2863152.7/21

All: 0.000+/-0.000 χ^2/NDF : 5228341.5/39

asym_sam8_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.020 ± 0.009 $\chi^2/\text{NDF}: 17.0/15$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 1.2/2$

Right Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 22.8/18$

Left In: -0.020 ± 0.025 $\chi^2/\text{NDF}: 1.9/1$

Left: -0.037 ± 0.019 $\chi^2/\text{NDF}: 4.2/4$

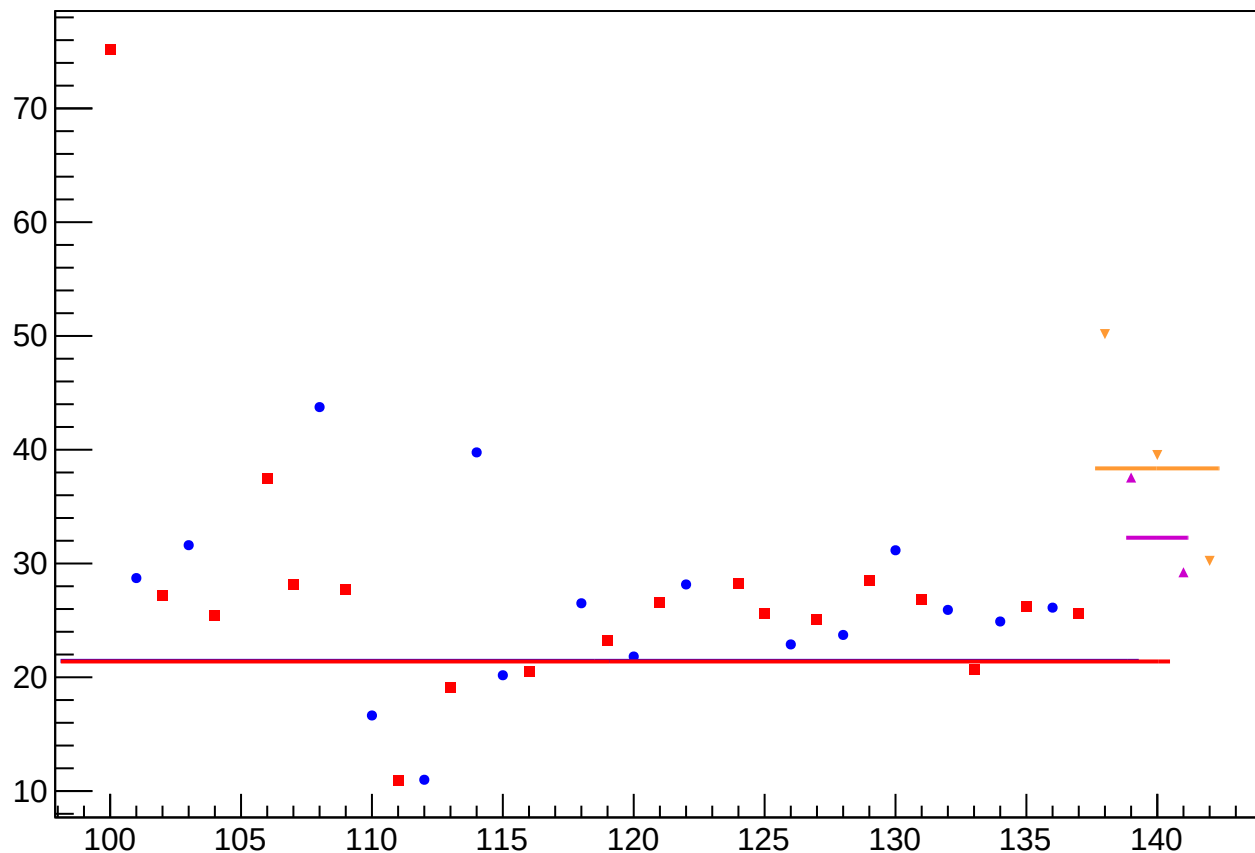
Right: 0.010 ± 0.006 $\chi^2/\text{NDF}: 42.5/34$

In: 0.016 ± 0.008 $\chi^2/\text{NDF}: 21.1/17$

Out: -0.005 ± 0.008 $\chi^2/\text{NDF}: 28.1/21$

All: 0.005 ± 0.006 $\chi^2/\text{NDF}: 52.3/39$

asym_sam8_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.444+/-0.006 χ^2/NDF : 1540713.8/15

Left Out: 38.360+/-0.020 χ^2/NDF : 143356.0/2

Right Out: 21.389+/-0.006 χ^2/NDF : 1311934.3/18

Left In: 32.266+/-0.018 χ^2/NDF : 50547.7/1

Left: 34.949+/-0.013 χ^2/NDF : 245369.9/4

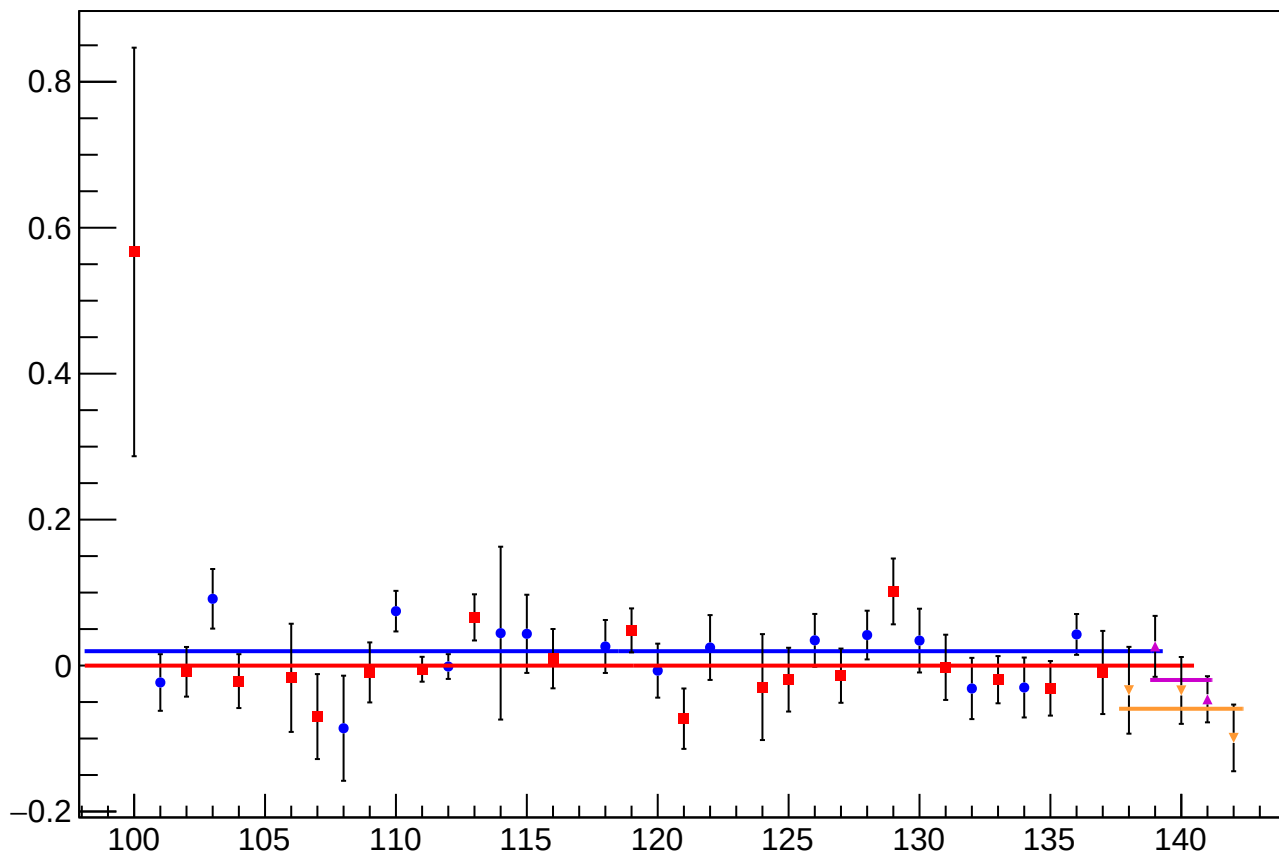
Right: 21.416+/-0.004 χ^2/NDF : 2852687.6/34

In: 22.592+/-0.006 χ^2/NDF : 1920710.2/17

Out: 22.785+/-0.006 χ^2/NDF : 2109772.1/21

All: 22.689+/-0.004 χ^2/NDF : 4031038.8/39

asym_sam8_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.020 ± 0.009 $\chi^2/\text{NDF}: 17.0/15$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 1.2/2$

Right Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 22.8/18$

Left In: -0.020 ± 0.025 $\chi^2/\text{NDF}: 1.9/1$

Left: -0.037 ± 0.019 $\chi^2/\text{NDF}: 4.2/4$

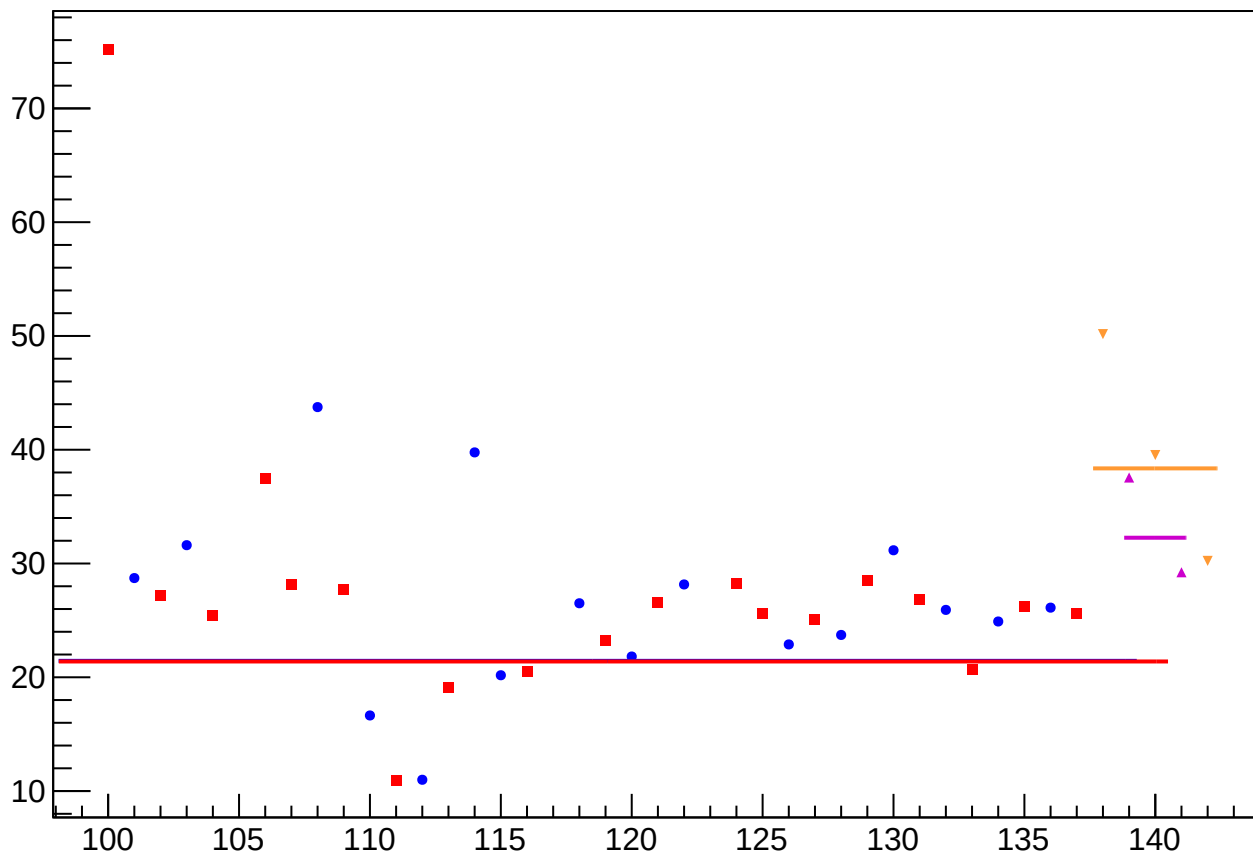
Right: 0.010 ± 0.006 $\chi^2/\text{NDF}: 42.5/34$

In: 0.016 ± 0.008 $\chi^2/\text{NDF}: 21.1/17$

Out: -0.005 ± 0.008 $\chi^2/\text{NDF}: 28.1/21$

All: 0.005 ± 0.006 $\chi^2/\text{NDF}: 52.3/39$

asym_sam8_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.444+/-0.006 χ^2/NDF : 1540713.8/15

Left Out: 38.360+/-0.020 χ^2/NDF :143356.0/2

Right Out: 21.389+/-0.006 χ^2/NDF : 1311934.3/18

Left In: 32.266+/-0.018 χ^2/NDF :50547.7/1

Left: 34.949+/-0.013 χ^2/NDF : 245369.9/4

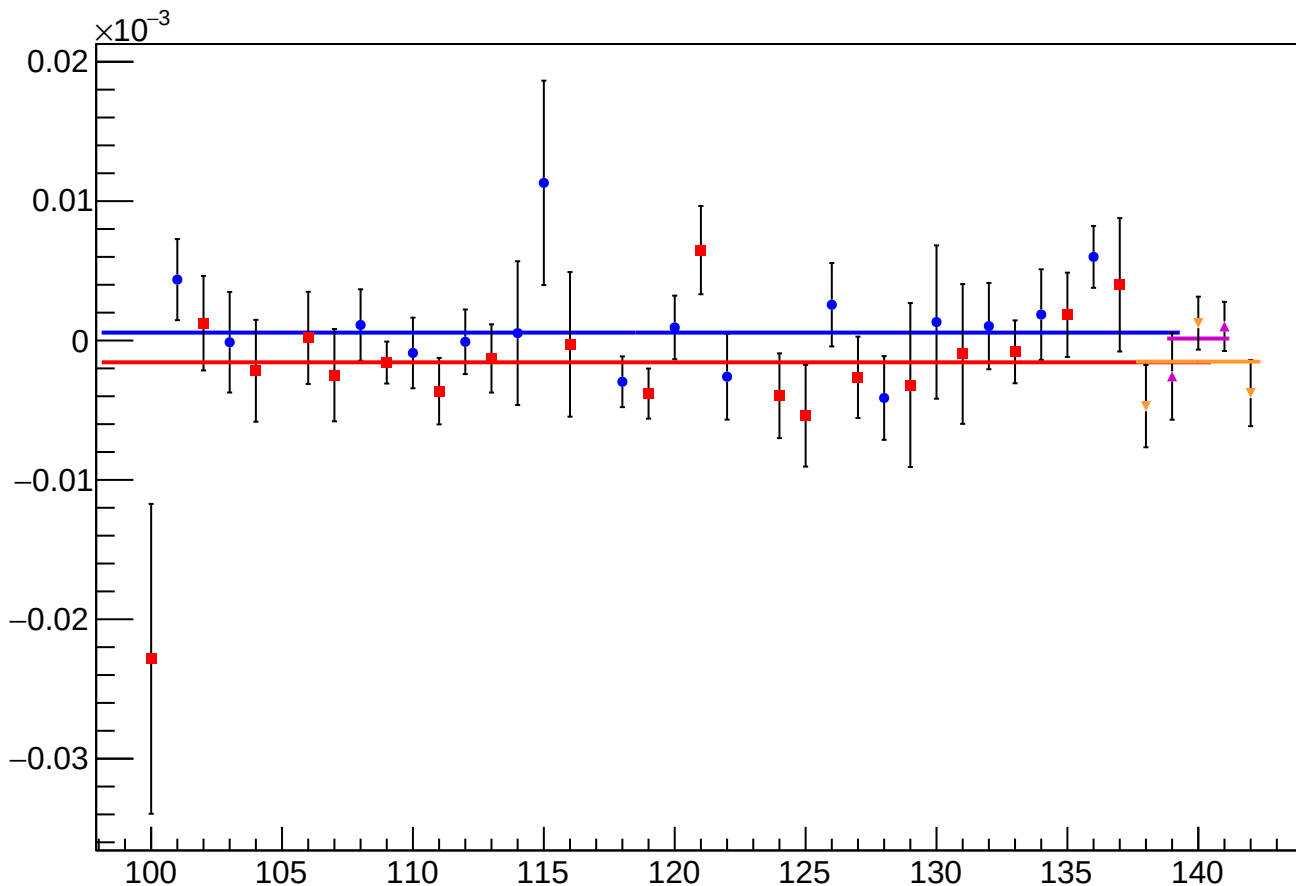
Right: 21.416+/-0.004 χ^2/NDF : 2852687.6/34

In: 22.592+/-0.006 χ^2/NDF :1920710.2/17

Out: 22.785+/-0.006 χ^2/NDF :2109772.1/21

All: 22.689+/-0.004 χ^2/NDF : 4031038.8/39

asym_sam8_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 4.2/2

Right Out: -0.000+/-0.000 χ^2/NDF : 18.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 1.0/1

Left: -0.000+/-0.000 χ^2/NDF : 5.9/4

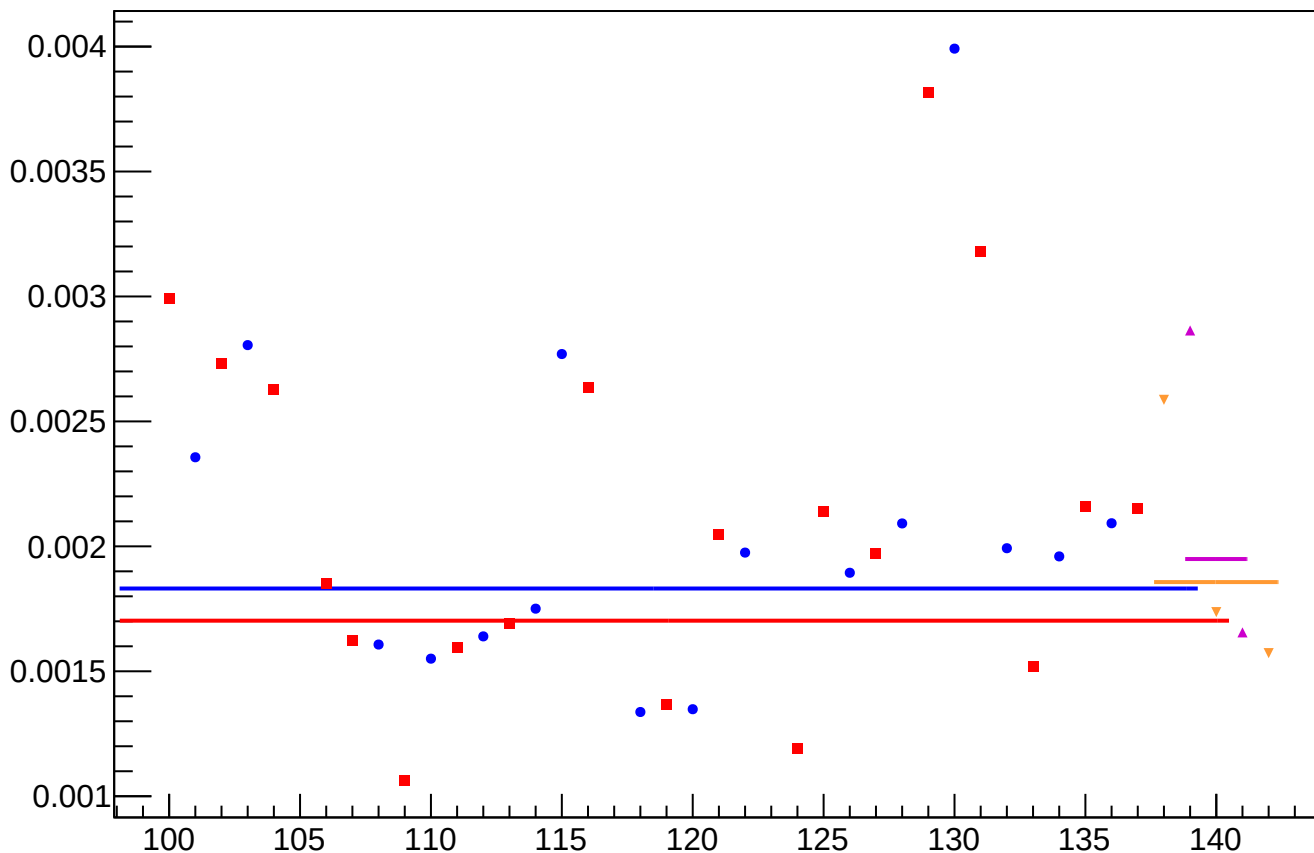
Right: -0.000+/-0.000 χ^2/NDF : 41.4/34

In: 0.000+/-0.000 χ^2/NDF : 19.3/17

Out: -0.000+/-0.000 χ^2/NDF : 22.5/21

All: -0.000+/-0.000 χ^2/NDF : 47.3/39

asym_sam8_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 900406.1/15

Left Out: 0.002+/-0.000 χ^2/NDF :158968.1/2

Right Out: 0.002+/-0.000 χ^2/NDF : 1478057.9/18

Left In: 0.002+/-0.000 χ^2/NDF :227870.9/1

Left: 0.002+/-0.000 χ^2/NDF : 390979.0/4

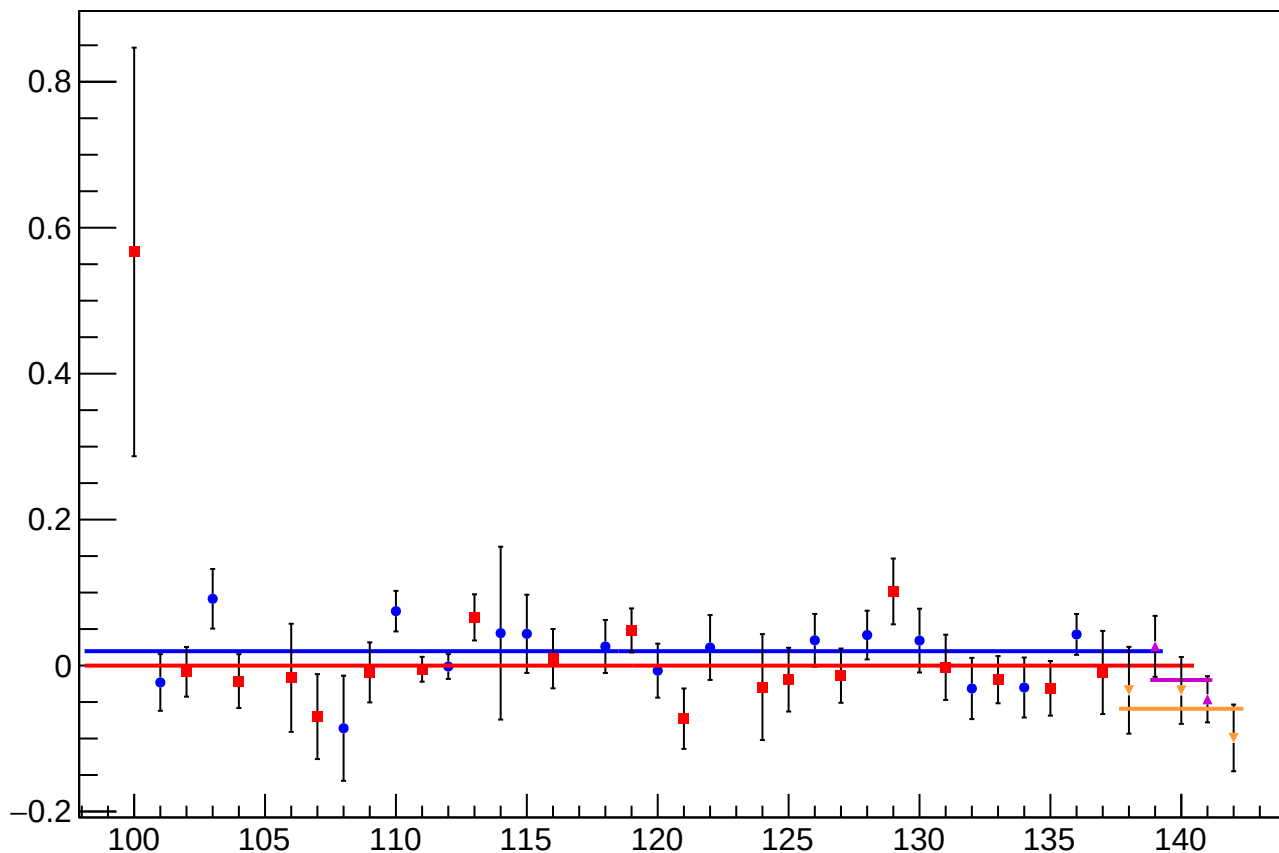
Right: 0.002+/-0.000 χ^2/NDF : 2413966.0/34

In: 0.002+/-0.000 χ^2/NDF :1138028.3/17

Out: 0.002+/-0.000 χ^2/NDF :1658822.9/21

All: 0.002+/-0.000 χ^2/NDF : 2833927.9/39

asym_sam8_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.020 ± 0.009 $\chi^2/\text{NDF}: 17.0/15$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 1.2/2$

Right Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 22.8/18$

Left In: -0.020 ± 0.025 $\chi^2/\text{NDF}: 1.9/1$

Left: -0.037 ± 0.019 $\chi^2/\text{NDF}: 4.2/4$

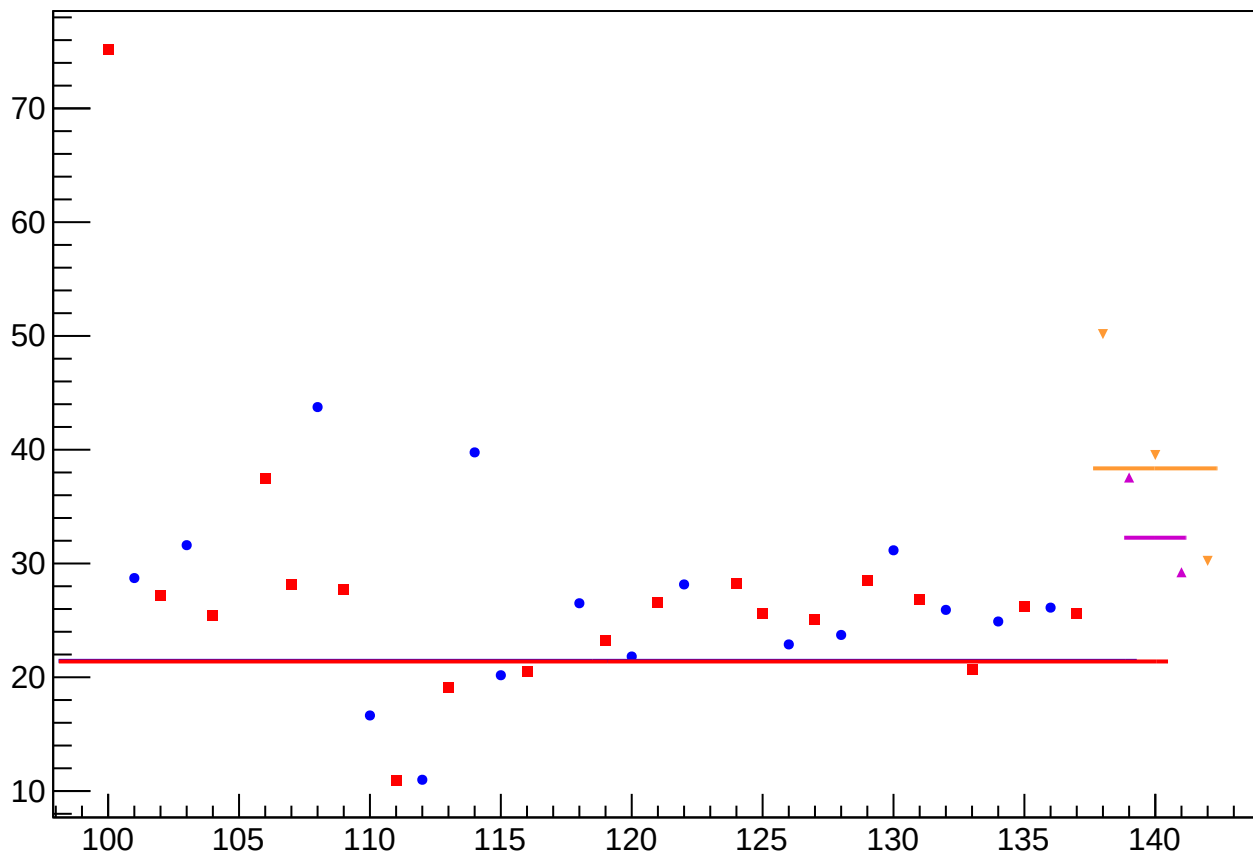
Right: 0.010 ± 0.006 $\chi^2/\text{NDF}: 42.5/34$

In: 0.016 ± 0.008 $\chi^2/\text{NDF}: 21.1/17$

Out: -0.005 ± 0.008 $\chi^2/\text{NDF}: 28.1/21$

All: 0.005 ± 0.006 $\chi^2/\text{NDF}: 52.3/39$

asym_sam8_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.443+/-0.006 χ^2/NDF : 1540859.8/15

Left Out: 38.360+/-0.020 χ^2/NDF : 143347.3/2

Right Out: 21.389+/-0.006 χ^2/NDF : 1312055.7/18

Left In: 32.266+/-0.018 χ^2/NDF : 50544.6/1

Left: 34.950+/-0.013 χ^2/NDF : 245359.8/4

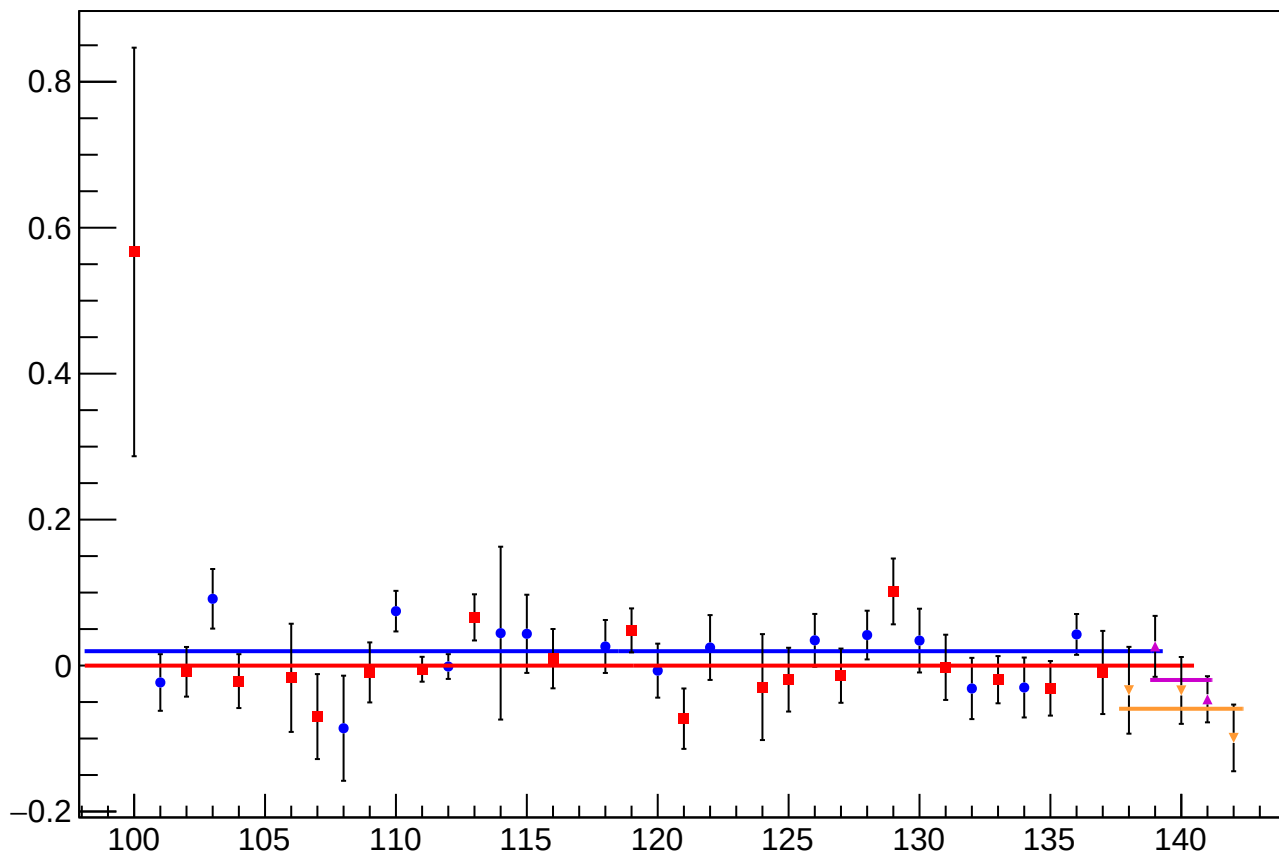
Right: 21.415+/-0.004 χ^2/NDF : 2852955.1/34

In: 22.591+/-0.006 χ^2/NDF : 1920898.9/17

Out: 22.784+/-0.006 χ^2/NDF : 2109947.6/21

All: 22.688+/-0.004 χ^2/NDF : 4031403.0/39

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.020 ± 0.009 $\chi^2/\text{NDF}: 17.0/15$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 1.2/2$

Right Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 22.8/18$

Left In: -0.020 ± 0.025 $\chi^2/\text{NDF}: 1.9/1$

Left: -0.037 ± 0.019 $\chi^2/\text{NDF}: 4.2/4$

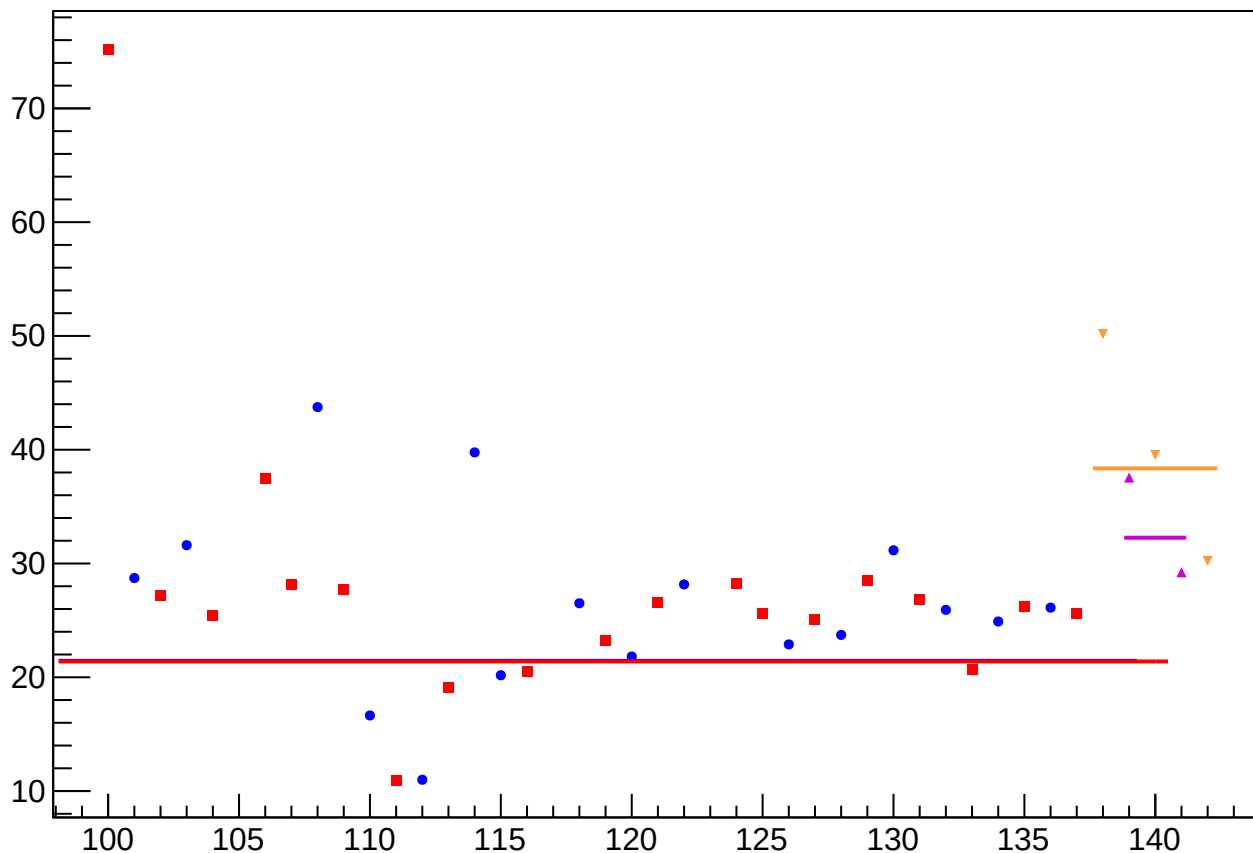
Right: 0.010 ± 0.006 $\chi^2/\text{NDF}: 42.5/34$

In: 0.016 ± 0.008 $\chi^2/\text{NDF}: 21.1/17$

Out: -0.005 ± 0.008 $\chi^2/\text{NDF}: 28.1/21$

All: 0.005 ± 0.006 $\chi^2/\text{NDF}: 52.3/39$

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.443+/-0.006 χ^2/NDF : 1540859.8/15

Left Out: 38.360+/-0.020 χ^2/NDF : 143347.3/2

Right Out: 21.389+/-0.006 χ^2/NDF : 1312055.7/18

Left In: 32.266+/-0.018 χ^2/NDF : 50544.6/1

Left: 34.950+/-0.013 χ^2/NDF : 245359.8/4

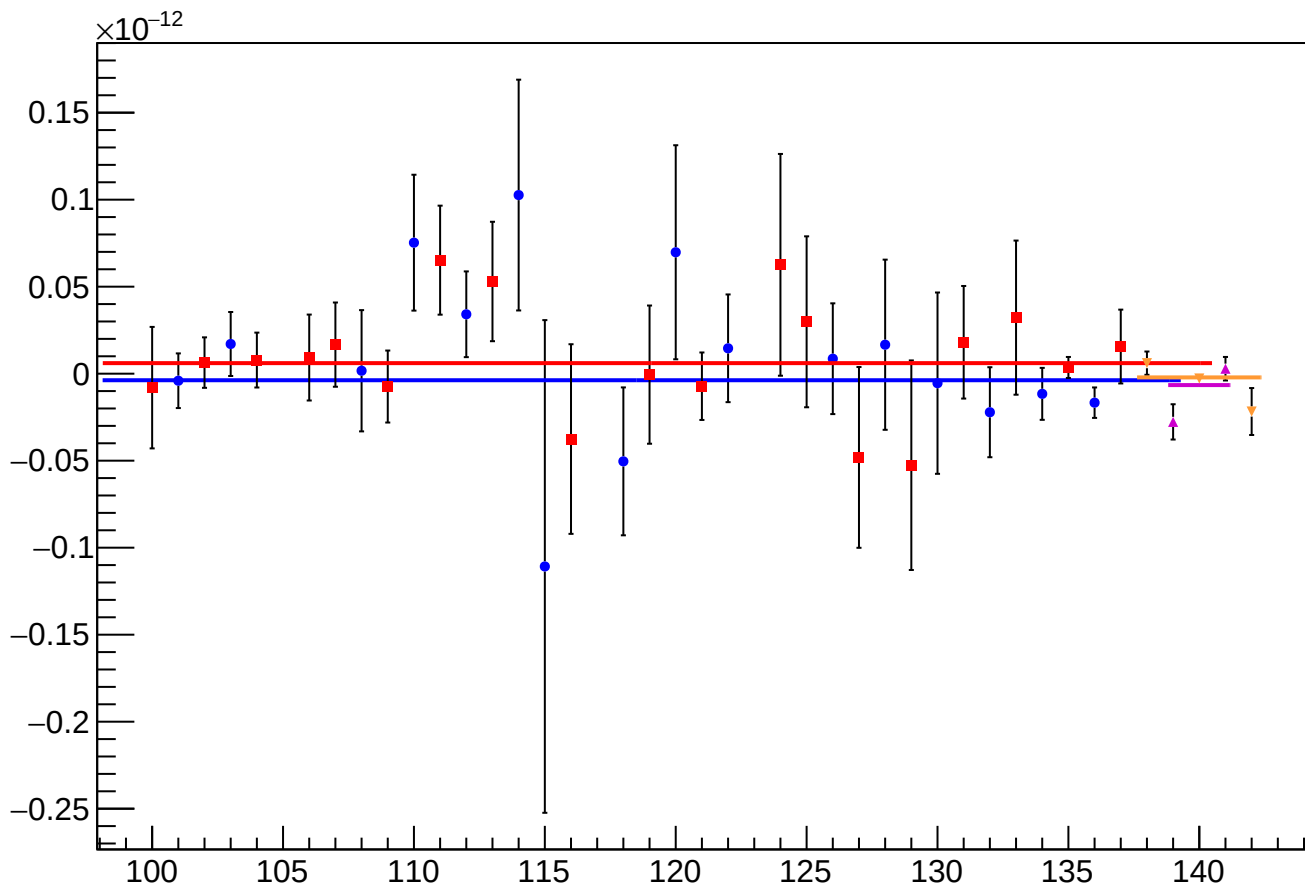
Right: 21.415+/-0.004 χ^2/NDF : 2852955.1/34

In: 22.591+/-0.006 χ^2/NDF : 1920898.9/17

Out: 22.784+/-0.006 χ^2/NDF : 2109947.6/21

All: 22.688+/-0.004 χ^2/NDF : 4031403.0/39

asym_sam8_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 17.2/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 11.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 6.3/1

Left: -0.000+/-0.000 χ^2/NDF : 10.5/4

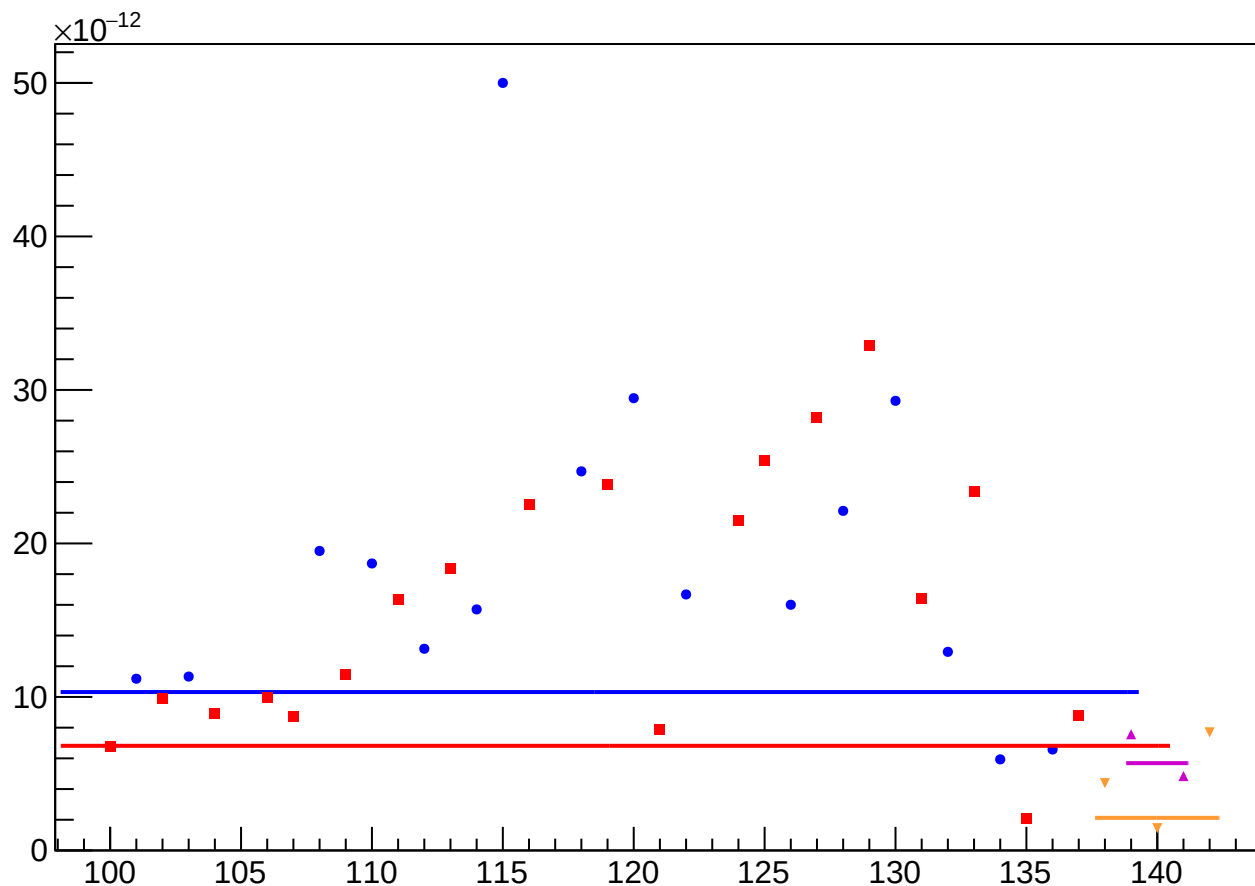
Right: 0.000+/-0.000 χ^2/NDF : 30.5/34

In: -0.000+/-0.000 χ^2/NDF : 23.6/17

Out: 0.000+/-0.000 χ^2/NDF : 17.6/21

All: -0.000+/-0.000 χ^2/NDF : 42.5/39

asym_sam8_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1951308.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 678357.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4021812.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 99989.8/1

Left: 0.000+/-0.000 χ^2/NDF : 1439709.8/4

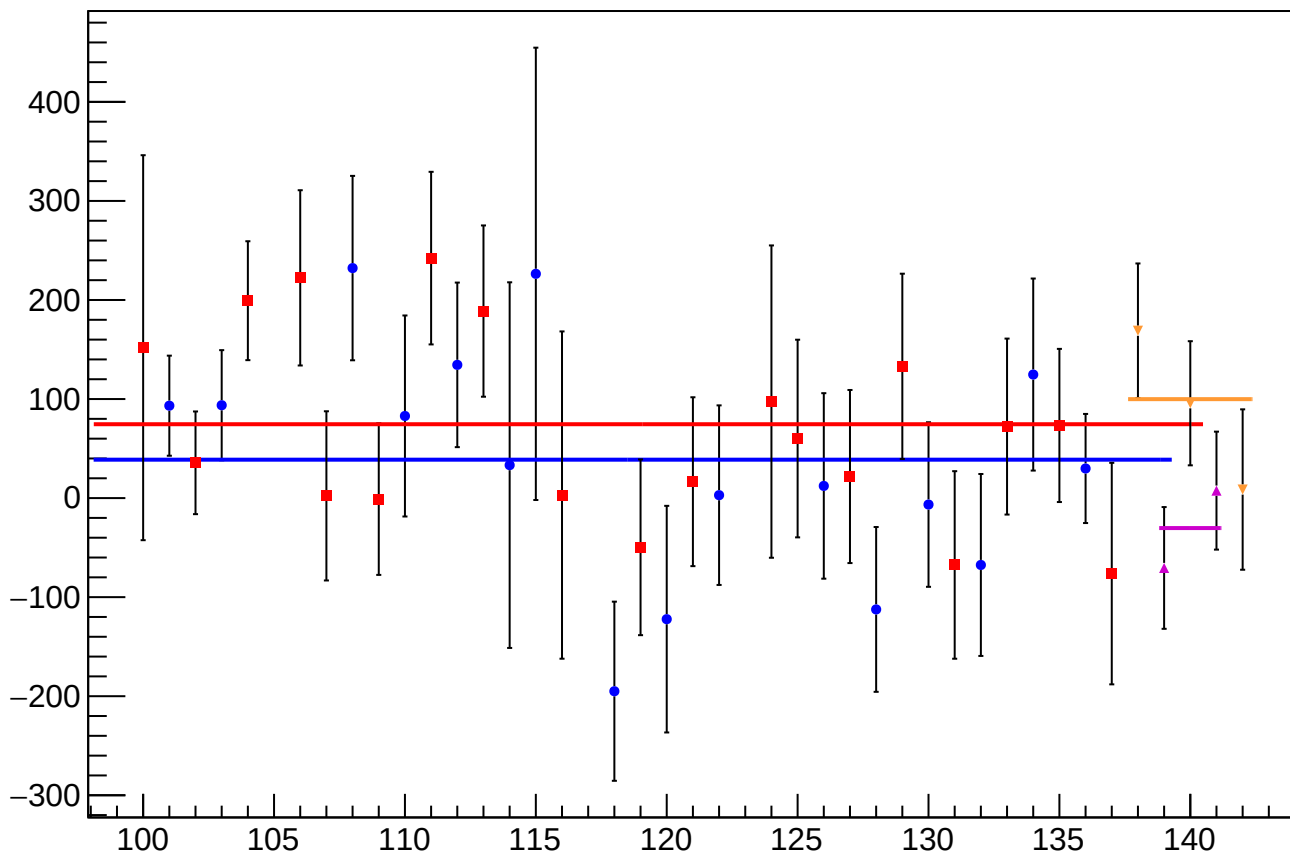
Right: 0.000+/-0.000 χ^2/NDF : 6473556.7/34

In: 0.000+/-0.000 χ^2/NDF : 2745175.9/17

Out: 0.000+/-0.000 χ^2/NDF : 6425064.8/21

All: 0.000+/-0.000 χ^2/NDF : 11328787.7/39

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 38.782 $\pm$ 20.413 χ^2 /NDF: 23.3/15

Left Out: 99.893 $\pm$ 40.029 χ^2 /NDF:2.3/2

Right Out: 74.578 $\pm$ 19.802 χ^2 /NDF: 22.5/18

Left In: -30.258 $\pm$ 42.769 χ^2 /NDF:0.8/1

Left: 39.120 $\pm$ 29.225 χ^2 /NDF: 8.1/4

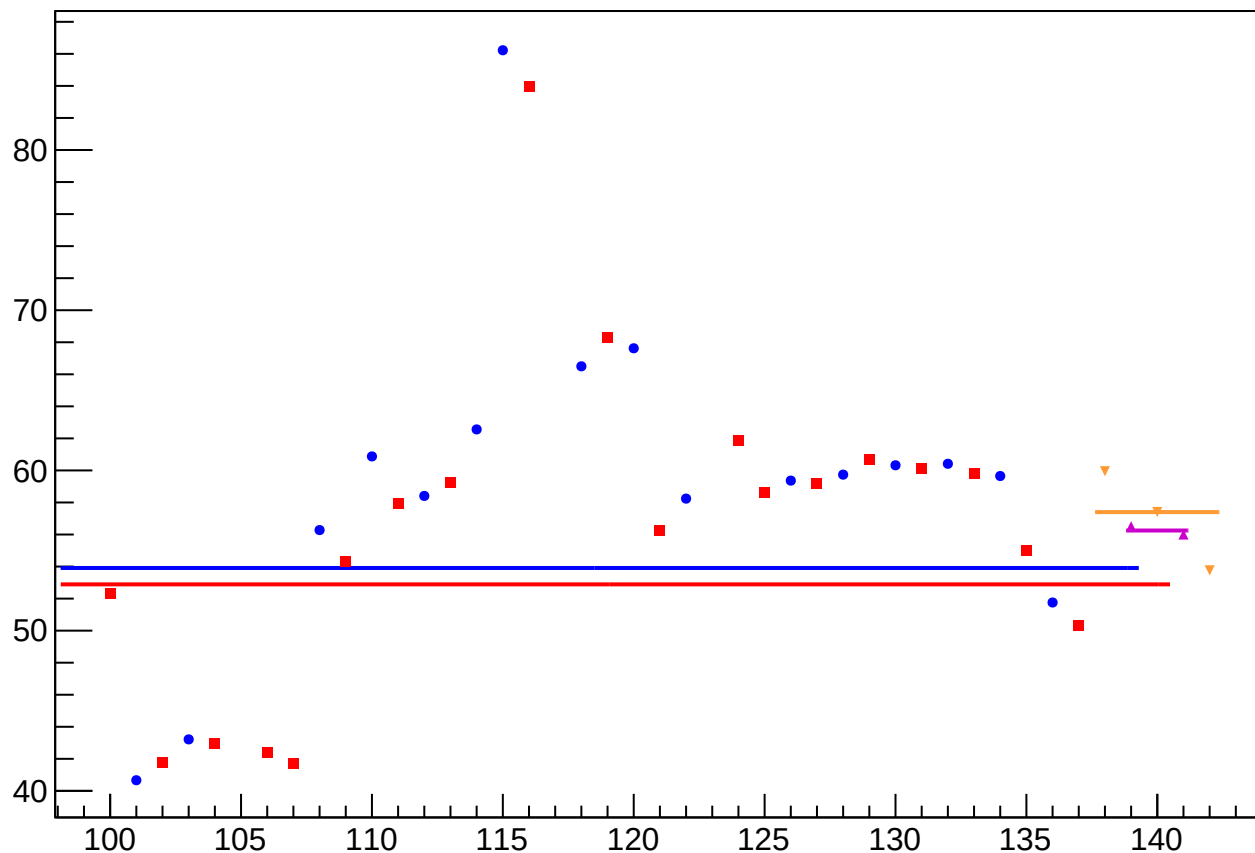
Right: 57.224 $\pm$ 14.213 χ^2 /NDF: 47.3/34

In: 25.973 $\pm$ 18.422 χ^2 /NDF:26.3/17

Out: 79.555 $\pm$ 17.749 χ^2 /NDF:25.1/21

All: 53.761 $\pm$ 12.782 χ^2 /NDF: 55.7/39

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 53.912 $\pm$ 0.014 χ^2 /NDF: 393261.4/15

Left Out: 57.400 $\pm$ 0.028 χ^2 /NDF: 6855.7/2

Right Out: 52.889 $\pm$ 0.014 χ^2 /NDF: 425226.7/18

Left In: 56.250 $\pm$ 0.030 χ^2 /NDF: 72.6/1

Left: 56.863 $\pm$ 0.021 χ^2 /NDF: 7699.2/4

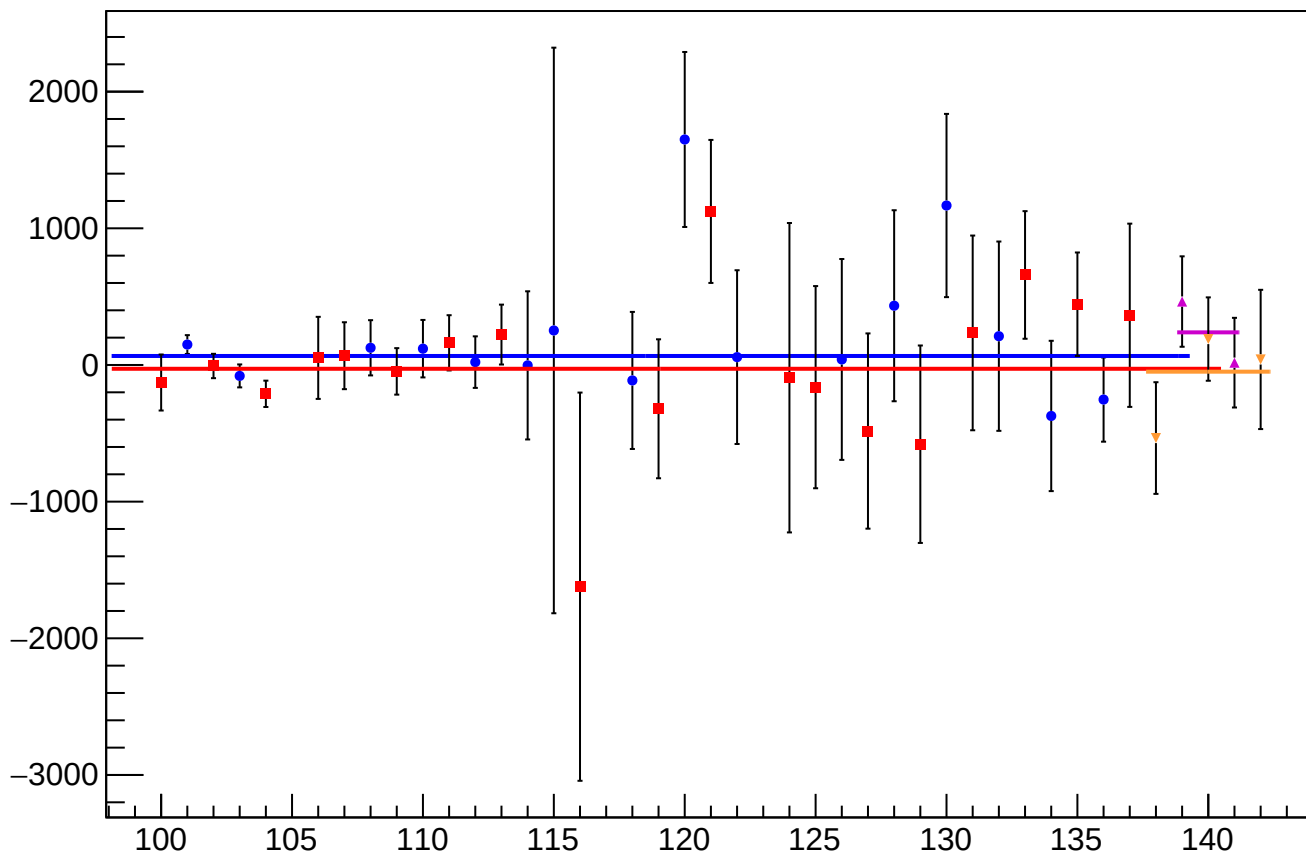
Right: 53.385 $\pm$ 0.010 χ^2 /NDF: 821077.5/34

In: 54.346 $\pm$ 0.013 χ^2 /NDF: 398202.1/17

Out: 53.776 $\pm$ 0.013 χ^2 /NDF: 452492.0/21

All: 54.050 $\pm$ 0.009 χ^2 /NDF: 851687.6/39

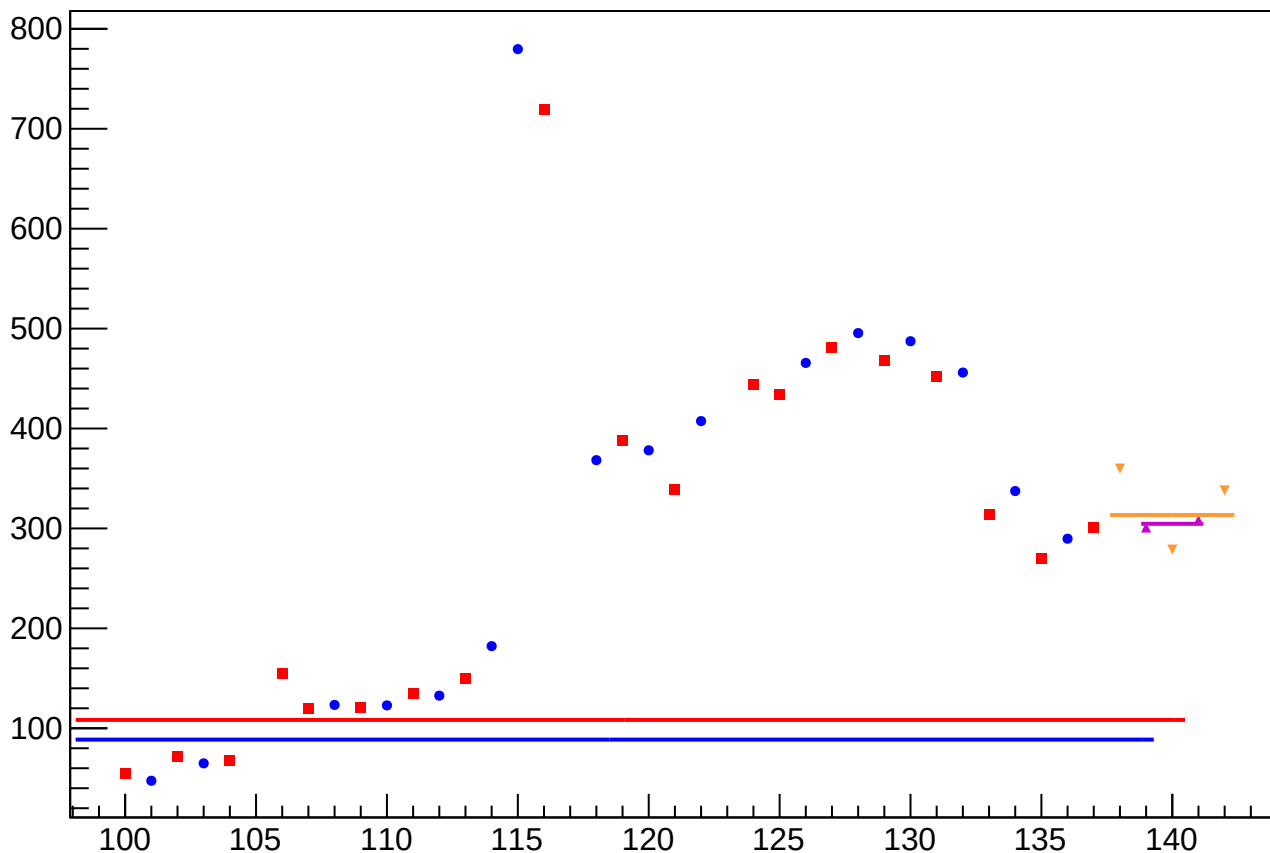
asym_sam_15_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: 65.853+/-46.478 χ^2/NDF : 15.7/15
 Left Out: -49.001+/-220.372 χ^2/NDF : 2.1/2
 Right Out: -27.850+/-50.291 χ^2/NDF : 18.0/18
 Left In: 238.645+/-232.948 χ^2/NDF : 0.9/1

Left: 86.848+/-160.088 χ^2/NDF : 3.8/4
 Right: 22.688+/-34.134 χ^2/NDF : 35.6/34
 In: 72.468+/-45.580 χ^2/NDF : 17.2/17
 Out: -28.897+/-49.031 χ^2/NDF : 20.1/21
 All: 25.478+/-33.383 χ^2/NDF : 39.5/39

asym_sam_15_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 88.658+/-0.033 χ^2/NDF : 6648055.6/15

Left Out: 313.467+/-0.156 χ^2/NDF : 56276.5/2

Right Out: 108.385+/-0.036 χ^2/NDF : 5362841.6/18

Left In: 304.635+/-0.165 χ^2/NDF : 498.3/1

Left: 309.296+/-0.113 χ^2/NDF : 58291.9/4

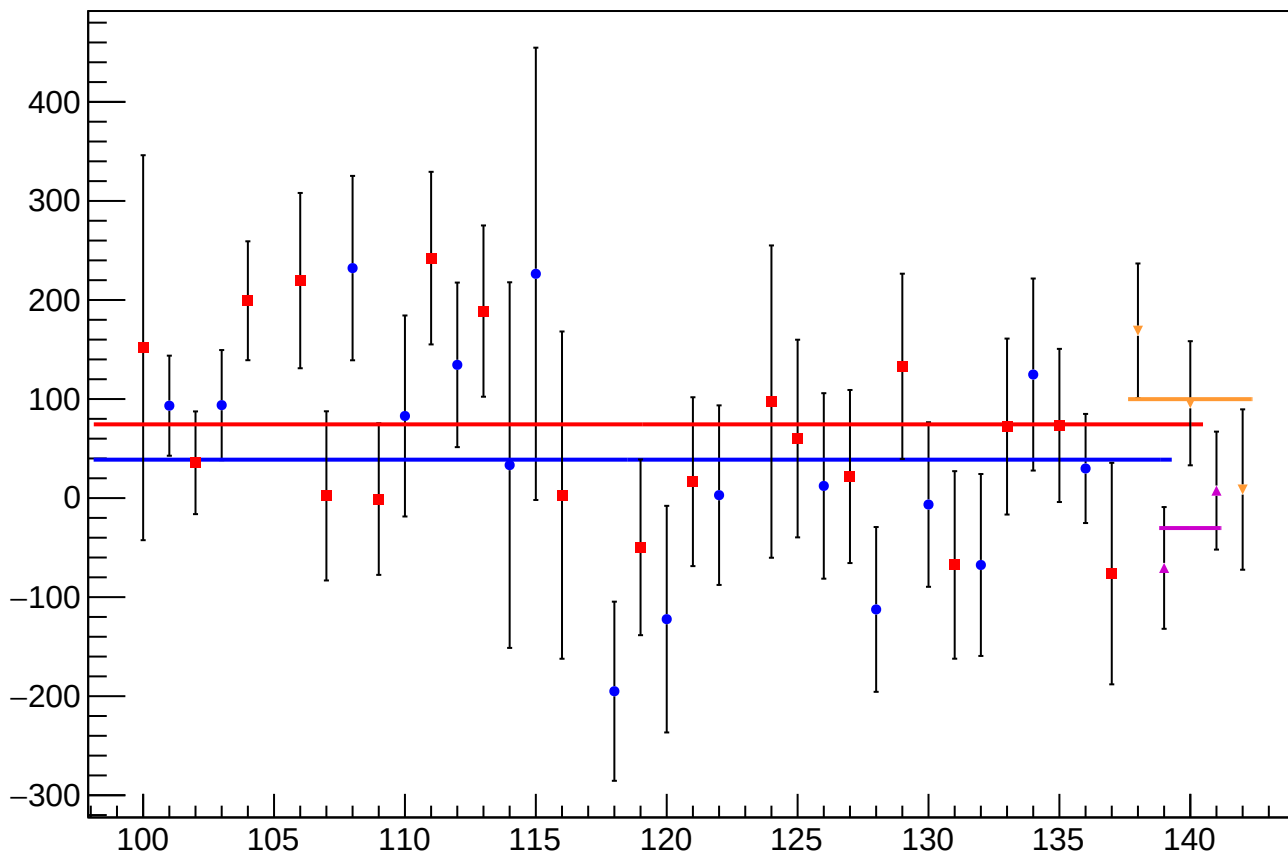
Right: 97.745+/-0.024 χ^2/NDF : 12176874.0/34

In: 96.927+/-0.032 χ^2/NDF : 8301949.4/17

Out: 118.537+/-0.035 χ^2/NDF : 7065478.9/21

All: 106.945+/-0.024 χ^2/NDF : 15575847.6/39

cor_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 38.794 $\pm$ 20.413 χ^2 /NDF: 23.3/15

Left Out: 99.894 $\pm$ 40.029 χ^2 /NDF:2.3/2

Right Out: 74.442 $\pm$ 19.803 χ^2 /NDF: 22.3/18

Left In: -30.251 $\pm$ 42.769 χ^2 /NDF:0.8/1

Left: 39.123 $\pm$ 29.225 χ^2 /NDF: 8.1/4

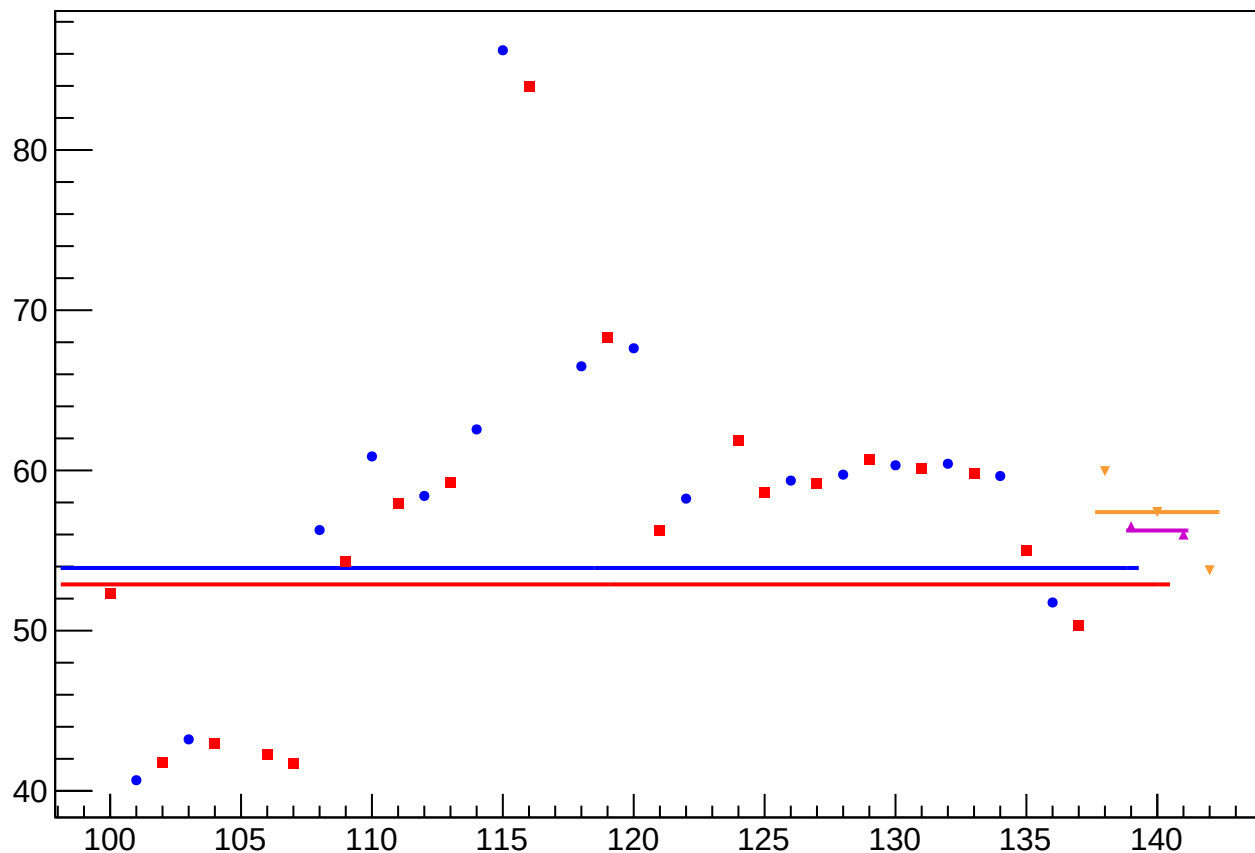
Right: 57.159 $\pm$ 14.214 χ^2 /NDF: 47.2/34

In: 25.983 $\pm$ 18.422 χ^2 /NDF:26.3/17

Out: 79.447 $\pm$ 17.750 χ^2 /NDF:25.0/21

All: 53.709 $\pm$ 12.782 χ^2 /NDF: 55.6/39

cor_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 53.912 $\pm$ 0.014 χ^2 /NDF: 393260.8/15

Left Out: 57.400 $\pm$ 0.028 χ^2 /NDF: 6855.7/2

Right Out: 52.887 $\pm$ 0.014 χ^2 /NDF: 425534.3/18

Left In: 56.250 $\pm$ 0.030 χ^2 /NDF: 72.6/1

Left: 56.863 $\pm$ 0.021 χ^2 /NDF: 7699.2/4

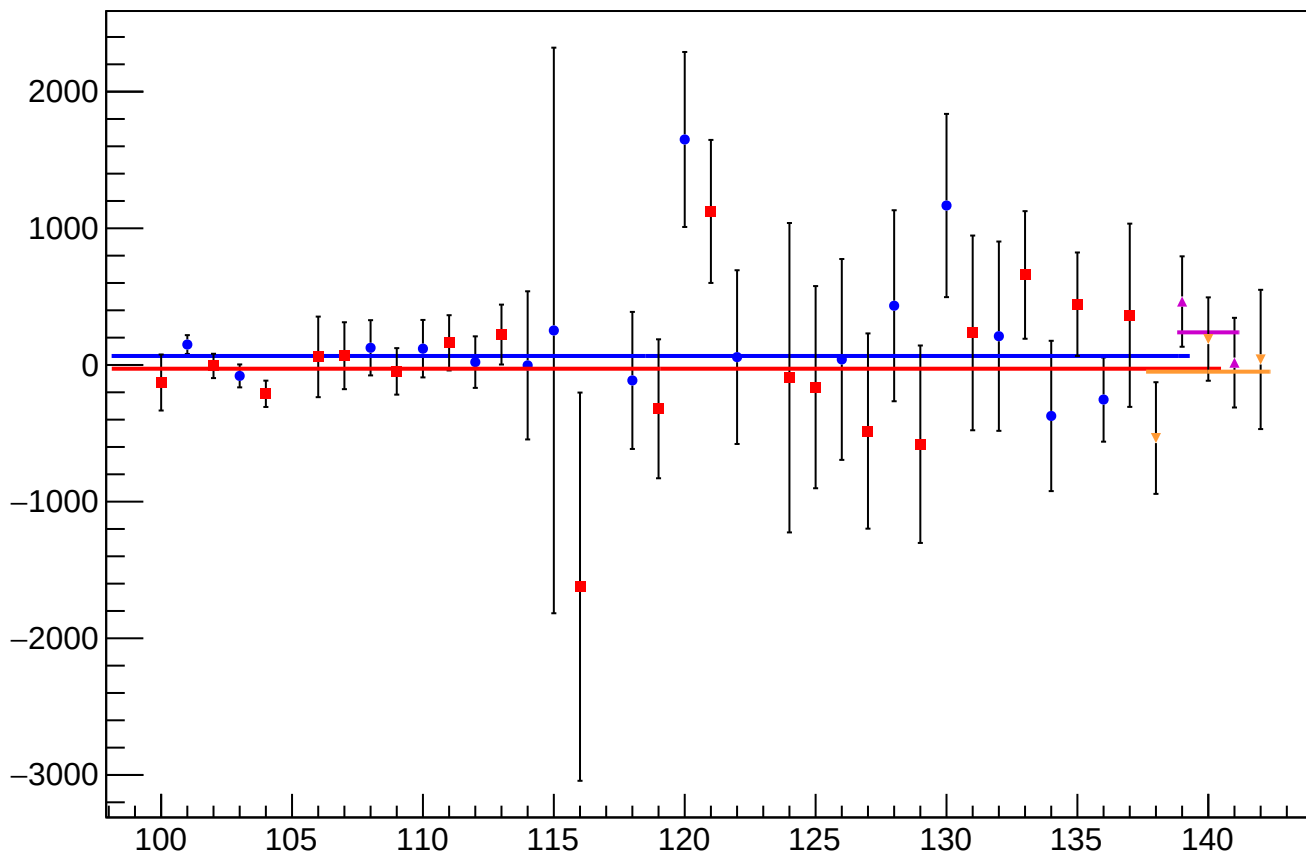
Right: 53.384 $\pm$ 0.010 χ^2 /NDF: 821395.7/34

In: 54.346 $\pm$ 0.013 χ^2 /NDF: 398201.5/17

Out: 53.774 $\pm$ 0.013 χ^2 /NDF: 452819.3/21

All: 54.049 $\pm$ 0.009 χ^2 /NDF: 852020.2/39

asym_sam_15_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: 65.857 ± 46.477 $\chi^2/\text{NDF}: 15.7/15$

Left Out: -48.997 ± 220.372 $\chi^2/\text{NDF}: 2.1/2$

Right Out: -27.406 ± 50.249 $\chi^2/\text{NDF}: 18.0/18$

Left In: 238.644 ± 232.948 $\chi^2/\text{NDF}: 0.9/1$

Left: 86.850 ± 160.088 $\chi^2/\text{NDF}: 3.8/4$

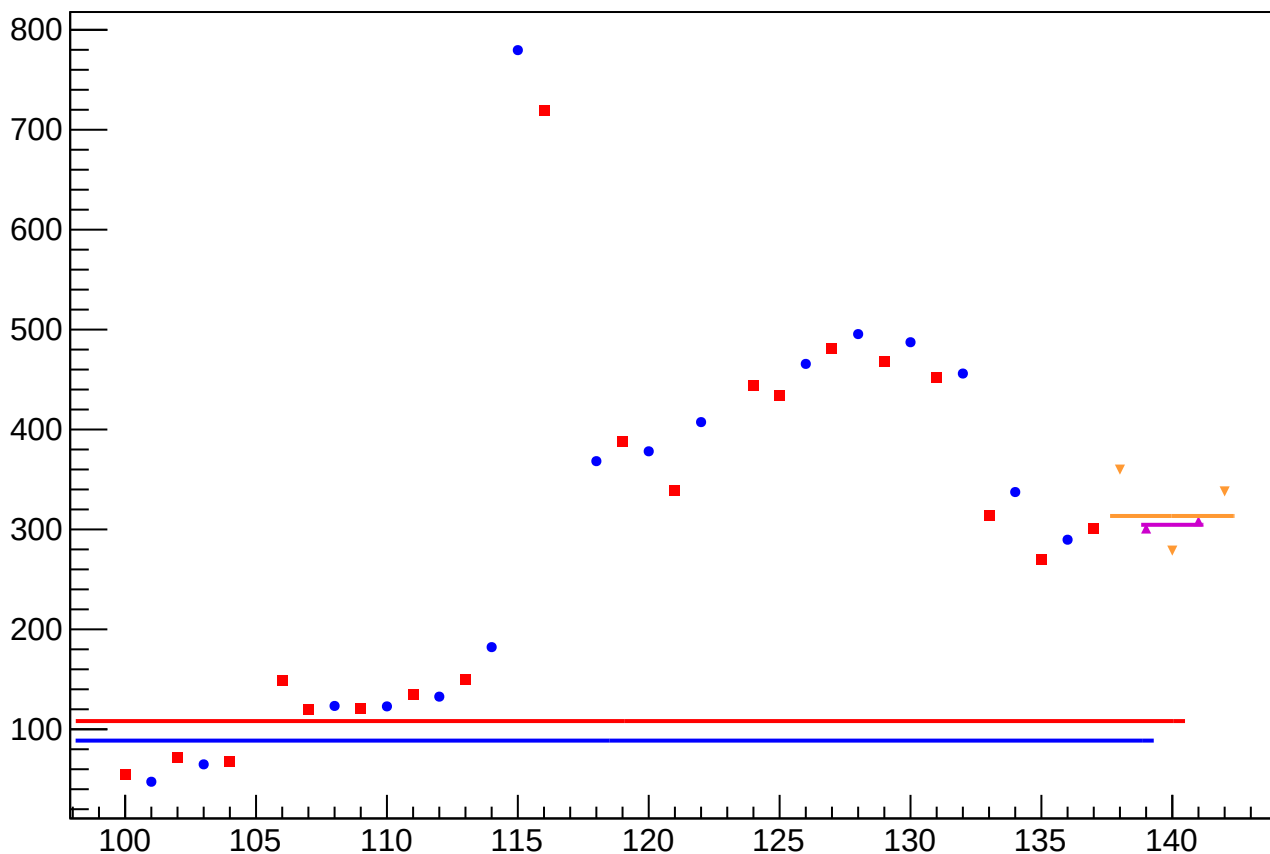
Right: 22.856 ± 34.120 $\chi^2/\text{NDF}: 35.6/34$

In: 72.472 ± 45.579 $\chi^2/\text{NDF}: 17.2/17$

Out: -28.473 ± 48.991 $\chi^2/\text{NDF}: 20.1/21$

All: 25.637 ± 33.370 $\chi^2/\text{NDF}: 39.5/39$

asym_sam_15_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 88.655+/-0.033 χ^2/NDF : 6648135.5/15

Left Out: 313.467+/-0.156 χ^2/NDF : 56276.6/2

Right Out: 108.207+/-0.036 χ^2/NDF : 5354864.8/18

Left In: 304.636+/-0.165 χ^2/NDF : 498.4/1

Left: 309.296+/-0.113 χ^2/NDF : 58292.1/4

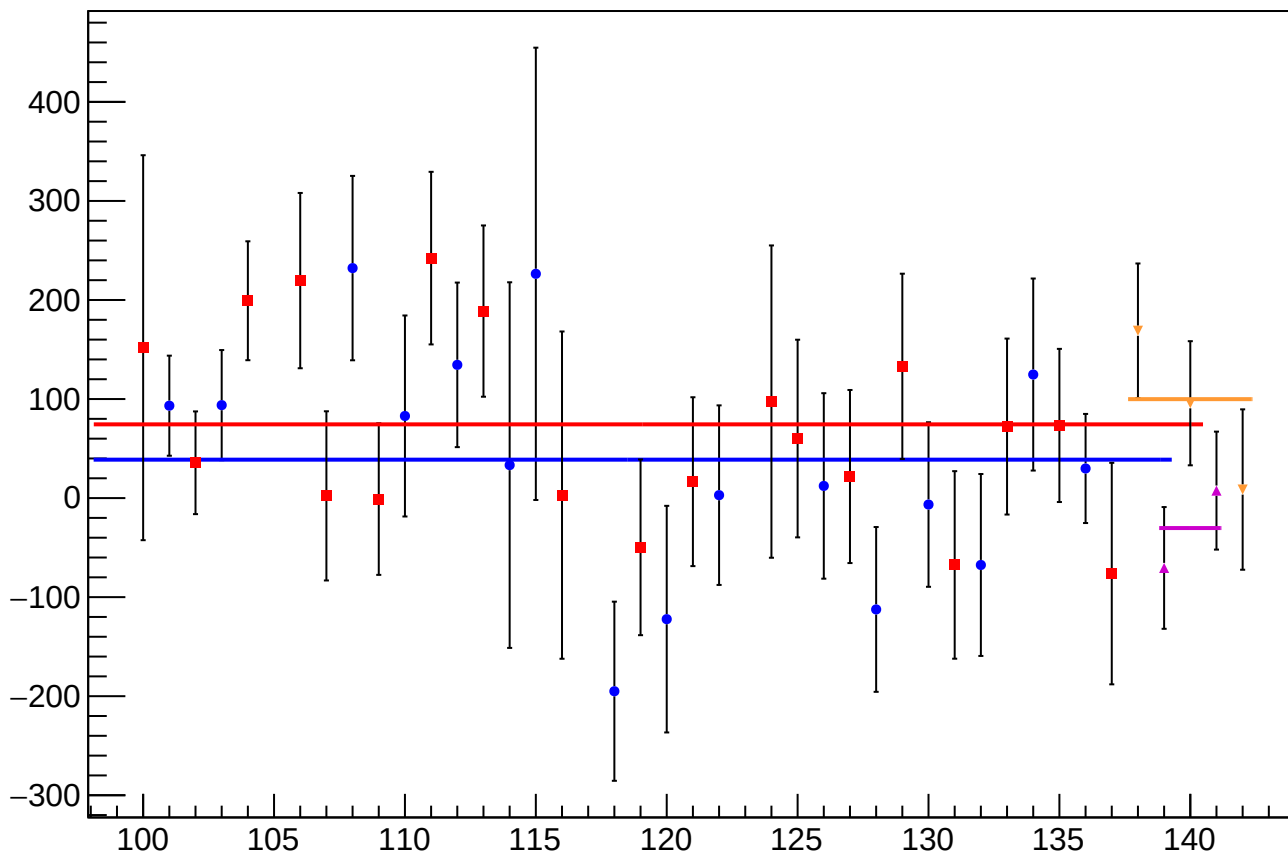
Right: 97.670+/-0.024 χ^2/NDF : 12166180.8/34

In: 96.924+/-0.032 χ^2/NDF : 8302071.1/17

Out: 118.351+/-0.035 χ^2/NDF : 7060509.4/21

All: 106.865+/-0.024 χ^2/NDF : 15567659.8/39

eigen_cor_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 38.794 $\pm$ 20.413 χ^2 /NDF: 23.3/15

Left Out: 99.894 $\pm$ 40.029 χ^2 /NDF:2.3/2

Right Out: 74.442 $\pm$ 19.803 χ^2 /NDF: 22.3/18

Left In: -30.251 $\pm$ 42.769 χ^2 /NDF:0.8/1

Left: 39.123 $\pm$ 29.225 χ^2 /NDF: 8.1/4

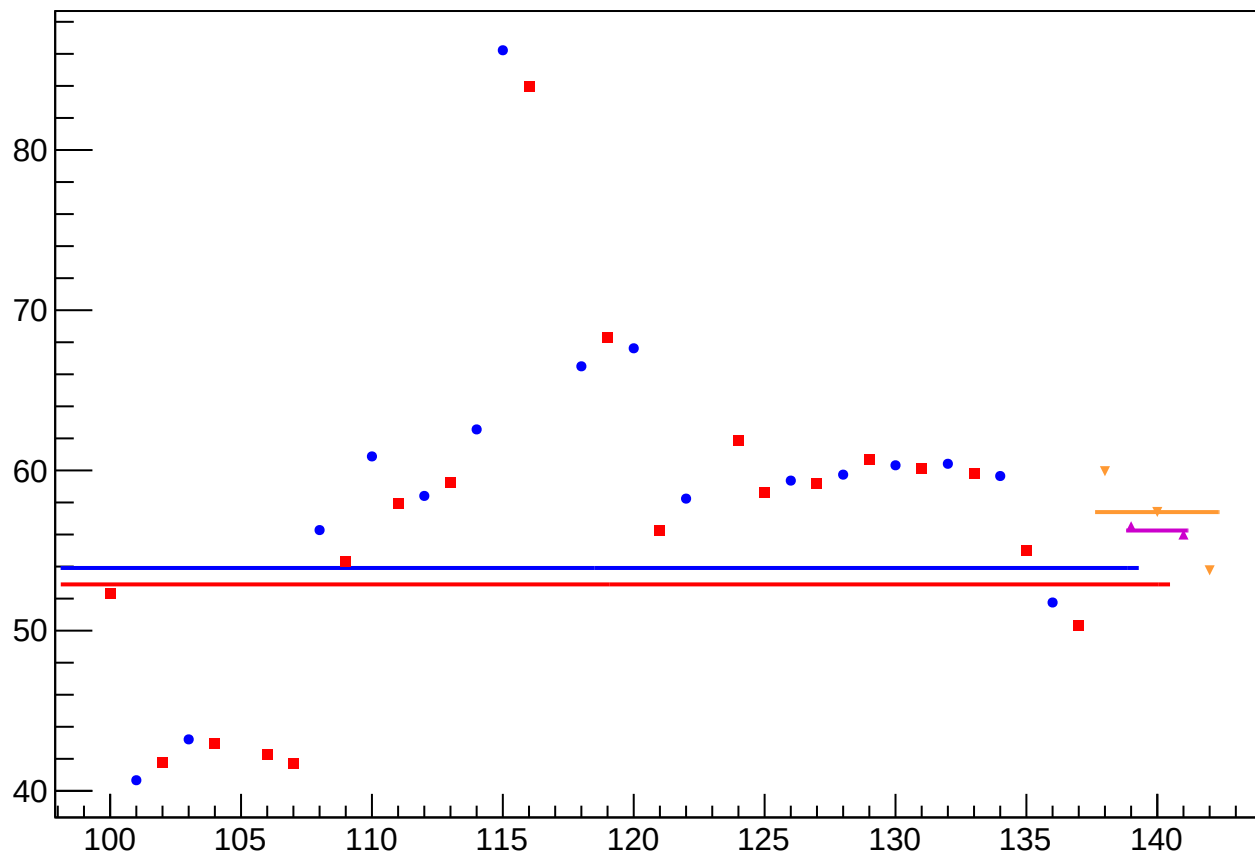
Right: 57.159 $\pm$ 14.214 χ^2 /NDF: 47.2/34

In: 25.983 $\pm$ 18.422 χ^2 /NDF:26.3/17

Out: 79.447 $\pm$ 17.750 χ^2 /NDF:25.0/21

All: 53.709 $\pm$ 12.782 χ^2 /NDF: 55.6/39

eigen_cor_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 53.912 $\pm$ 0.014 χ^2 /NDF: 393260.8/15

Left Out: 57.400 $\pm$ 0.028 χ^2 /NDF: 6855.7/2

Right Out: 52.887 $\pm$ 0.014 χ^2 /NDF: 425534.3/18

Left In: 56.250 $\pm$ 0.030 χ^2 /NDF: 72.6/1

Left: 56.863 $\pm$ 0.021 χ^2 /NDF: 7699.2/4

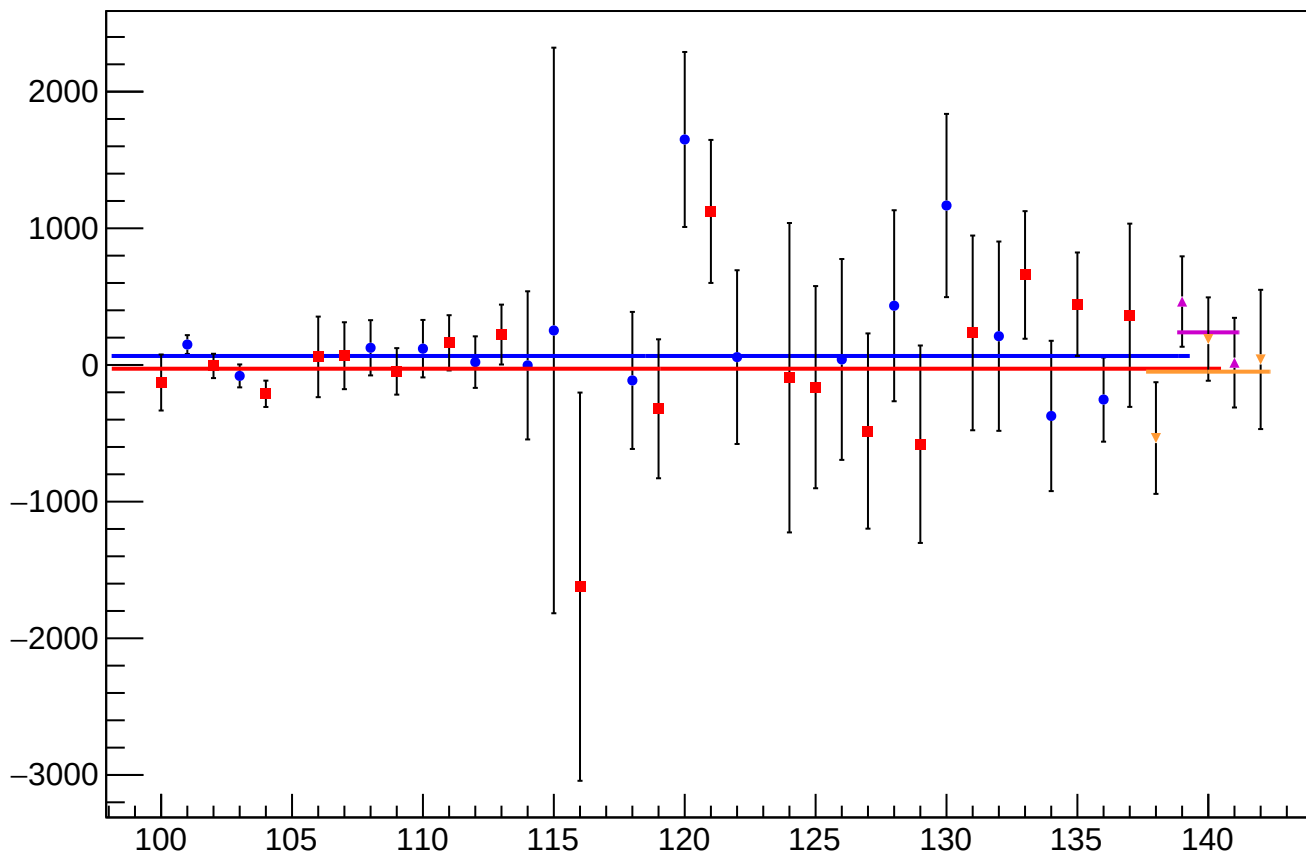
Right: 53.384 $\pm$ 0.010 χ^2 /NDF: 821395.7/34

In: 54.346 $\pm$ 0.013 χ^2 /NDF: 398201.5/17

Out: 53.774 $\pm$ 0.013 χ^2 /NDF: 452819.3/21

All: 54.049 $\pm$ 0.009 χ^2 /NDF: 852020.2/39

asym_sam_15_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 65.857+/-46.477 χ^2/NDF : 15.7/15

Left Out: -48.997+/-220.372 χ^2/NDF : 2.1/2

Right Out: -27.406+/-50.249 χ^2/NDF : 18.0/18

Left In: 238.644+/-232.948 χ^2/NDF : 0.9/1

Left: 86.850+/-160.088 χ^2/NDF : 3.8/4

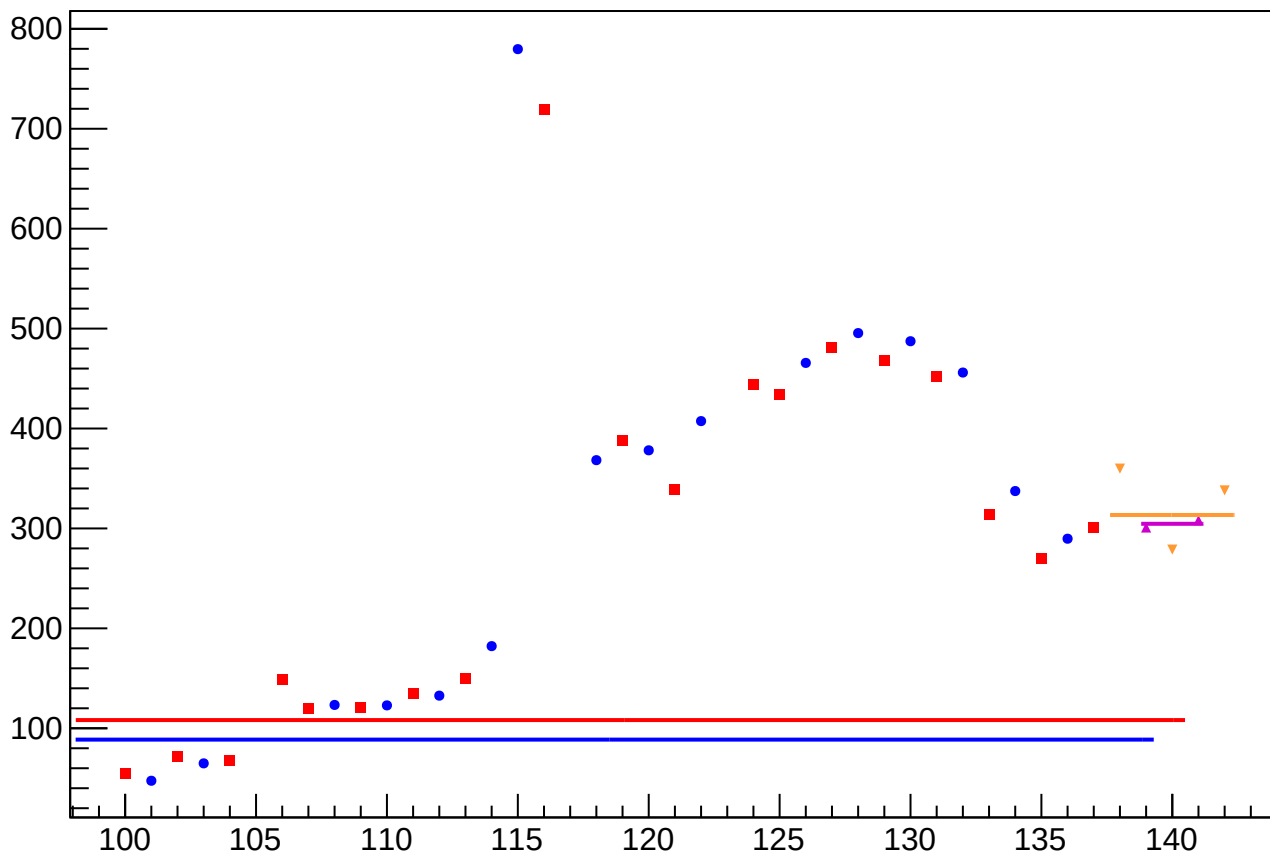
Right: 22.856+/-34.120 χ^2/NDF : 35.6/34

In: 72.472+/-45.579 χ^2/NDF : 17.2/17

Out: -28.473+/-48.991 χ^2/NDF : 20.1/21

All: 25.637+/-33.370 χ^2/NDF : 39.5/39

asym_sam_15_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 88.655+/-0.033 χ^2/NDF : 6648135.5/15

Left Out: 313.467+/-0.156 χ^2/NDF : 56276.6/2

Right Out: 108.207+/-0.036 χ^2/NDF : 5354864.8/18

Left In: 304.636+/-0.165 χ^2/NDF : 498.4/1

Left: 309.296+/-0.113 χ^2/NDF : 58292.1/4

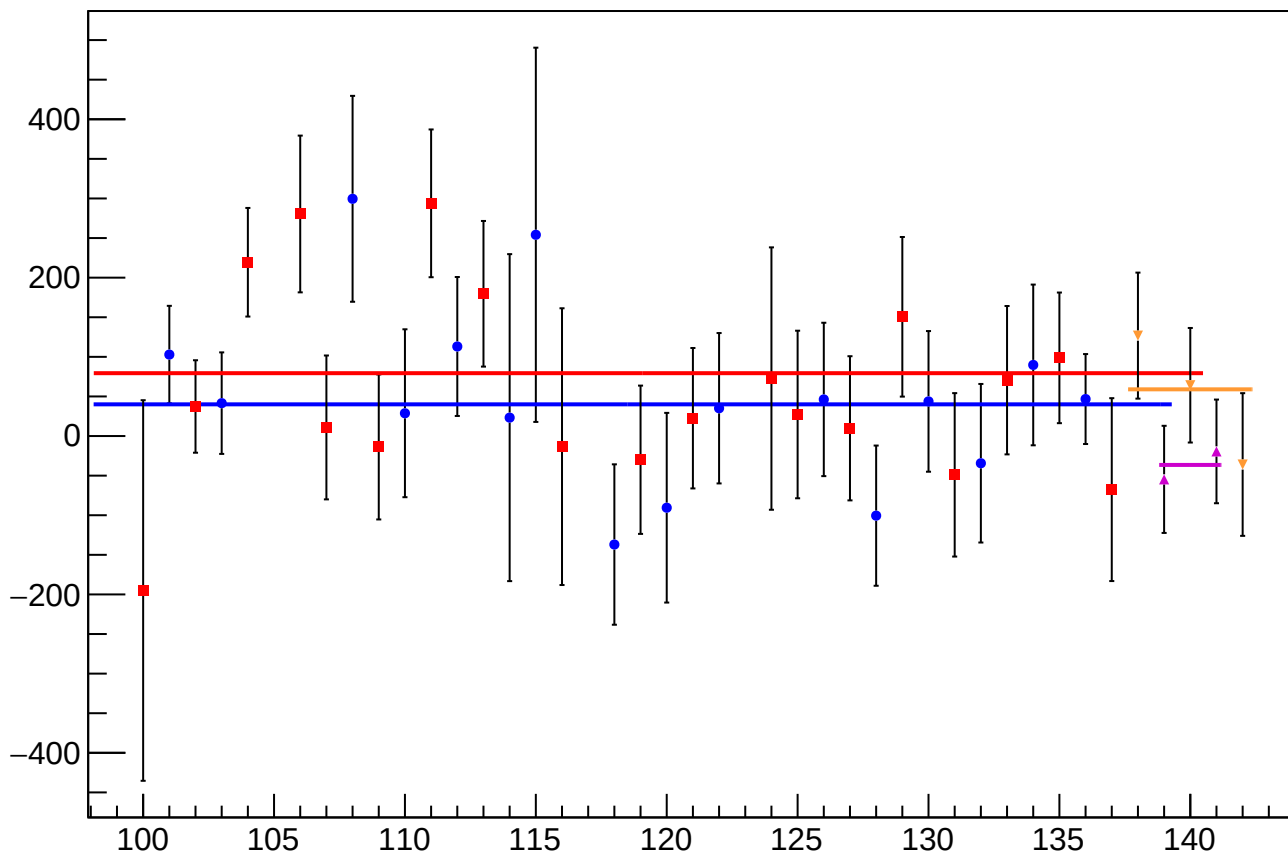
Right: 97.670+/-0.024 χ^2/NDF : 12166180.8/34

In: 96.924+/-0.032 χ^2/NDF : 8302071.1/17

Out: 118.351+/-0.035 χ^2/NDF : 7060509.4/21

All: 106.865+/-0.024 χ^2/NDF : 15567659.8/39

dit_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 40.030 $\pm$ 22.515 χ^2 /NDF: 14.1/15

Left Out: 58.972 $\pm$ 46.014 χ^2 /NDF:1.8/2

Right Out: 79.378 $\pm$ 21.577 χ^2 /NDF: 24.8/18

Left In: -36.479 $\pm$ 47.039 χ^2 /NDF:0.1/1

Left: 12.298 $\pm$ 32.893 χ^2 /NDF: 4.1/4

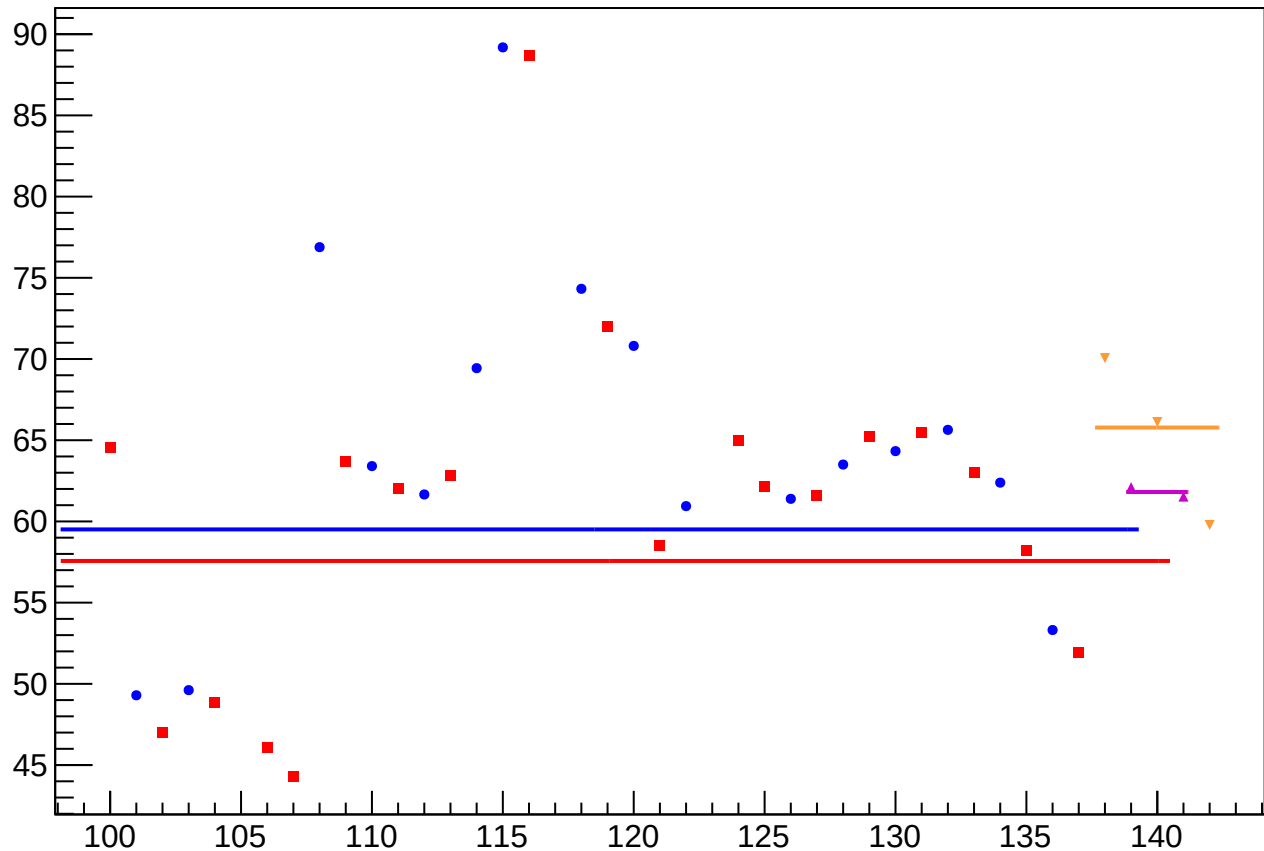
Right: 60.541 $\pm$ 15.578 χ^2 /NDF: 40.5/34

In: 25.769 $\pm$ 20.308 χ^2 /NDF:16.4/17

Out: 75.700 $\pm$ 19.536 χ^2 /NDF:26.8/21

All: 51.702 $\pm$ 14.079 χ^2 /NDF: 46.4/39

dit_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.509 $\pm$ 0.016 χ^2 /NDF: 283192.7/15

Left Out: 65.782 $\pm$ 0.033 χ^2 /NDF: 14693.1/2

Right Out: 57.567 $\pm$ 0.015 χ^2 /NDF: 347377.8/18

Left In: 61.812 $\pm$ 0.033 χ^2 /NDF: 75.7/1

Left: 63.840 $\pm$ 0.023 χ^2 /NDF: 22049.2/4

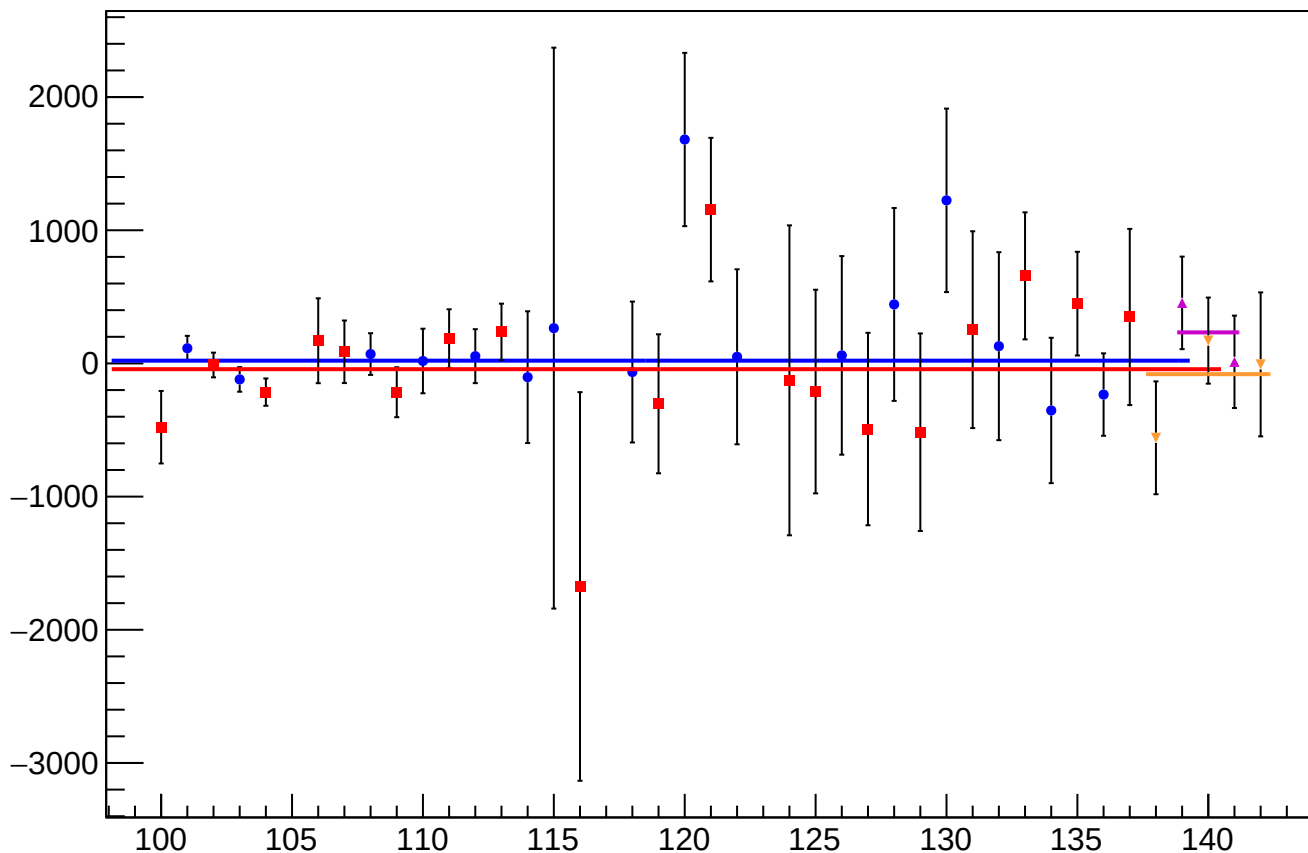
Right: 58.497 $\pm$ 0.011 χ^2 /NDF: 638326.1/34

In: 59.938 $\pm$ 0.014 χ^2 /NDF: 287168.2/17

Out: 59.048 $\pm$ 0.014 χ^2 /NDF: 414326.5/21

All: 59.476 $\pm$ 0.010 χ^2 /NDF: 703491.4/39

asym_sam_15_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: 20.840+/-53.585 χ^2/NDF : 14.6/15

Left Out: -80.532+/-232.110 χ^2/NDF :1.9/2

Right Out: -43.262+/-53.210 χ^2/NDF : 21.5/18

Left In: 233.051+/-245.503 χ^2/NDF :0.8/1

Left: 67.473+/-168.662 χ^2/NDF : 3.6/4

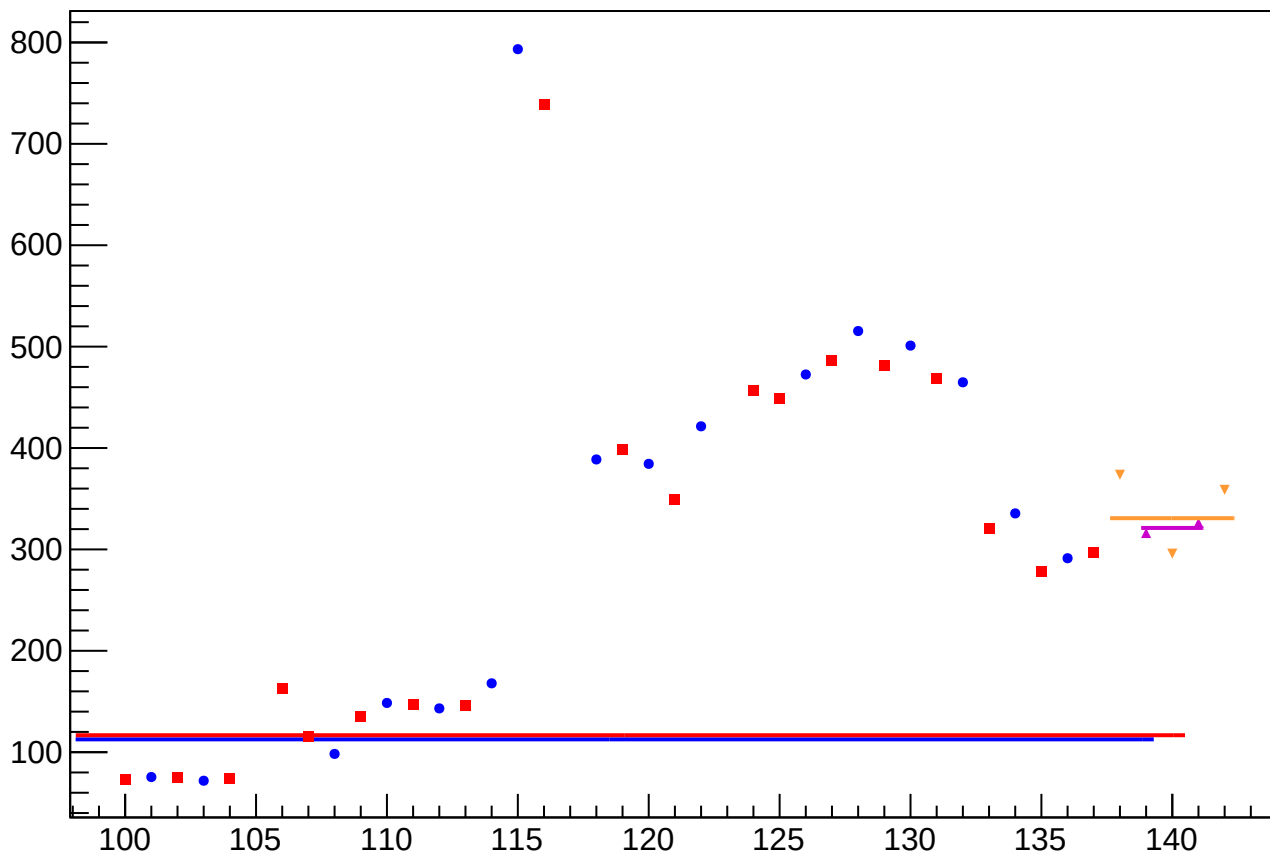
Right: -11.436+/-37.757 χ^2/NDF : 36.9/34

In: 30.490+/-52.353 χ^2/NDF :16.1/17

Out: -45.123+/-51.865 χ^2/NDF :23.4/21

All: -7.670+/-36.845 χ^2/NDF : 40.6/39

asym_sam_15_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 112.668+/-0.038 χ^2/NDF : 5599655.1/15

Left Out: 330.780+/-0.164 χ^2/NDF : 49218.4/2

Right Out: 116.733+/-0.038 χ^2/NDF : 5141387.7/18

Left In: 321.172+/-0.174 χ^2/NDF : 821.7/1

Left: 326.245+/-0.119 χ^2/NDF : 51657.4/4

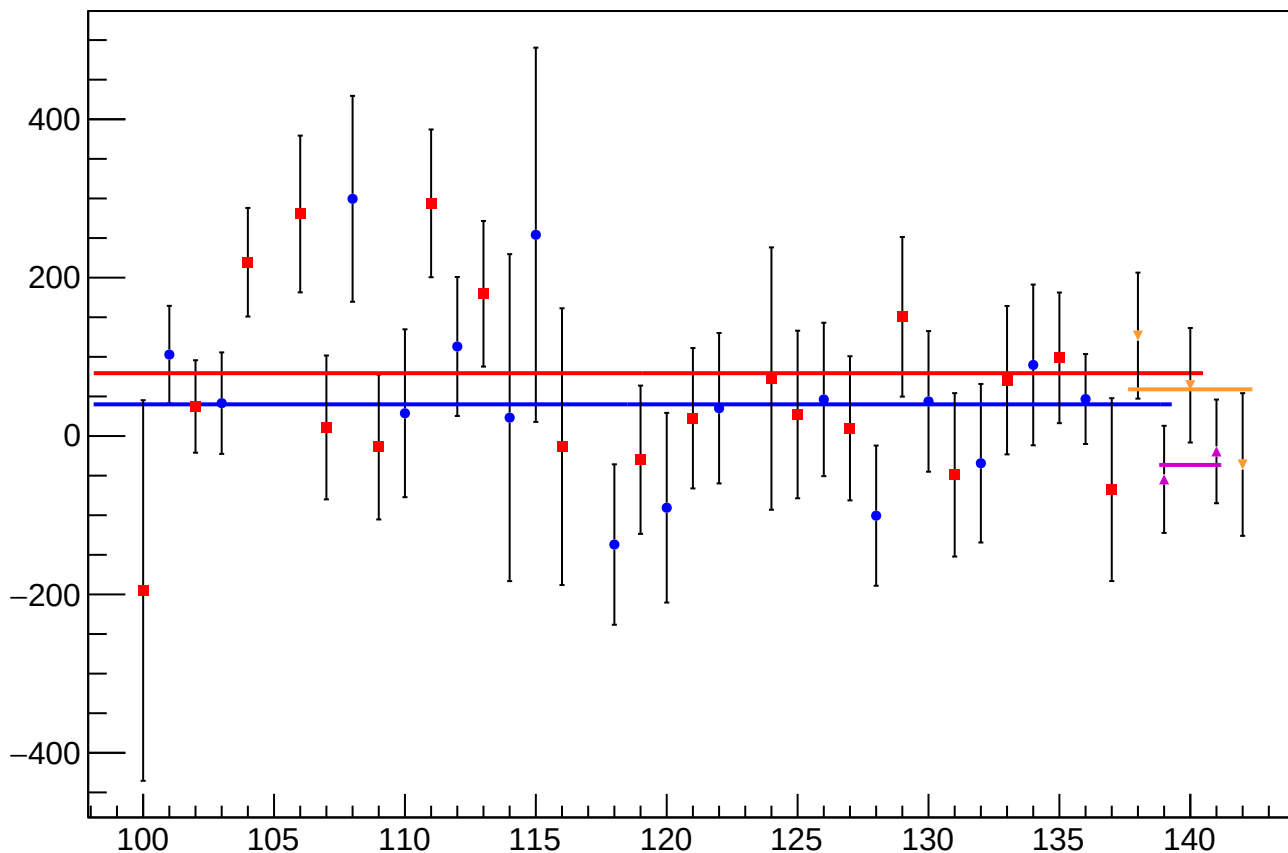
Right: 114.715+/-0.027 χ^2/NDF : 10746836.7/34

In: 122.150+/-0.037 χ^2/NDF : 6977477.3/17

Out: 127.420+/-0.037 χ^2/NDF : 6806519.0/21

All: 124.809+/-0.026 χ^2/NDF : 13794225.8/39

eigen_dit_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 40.030 $\pm$ 22.515 χ^2 /NDF: 14.1/15

Left Out: 58.971 $\pm$ 46.014 χ^2 /NDF:1.8/2

Right Out: 79.378 $\pm$ 21.577 χ^2 /NDF: 24.8/18

Left In: -36.478 $\pm$ 47.039 χ^2 /NDF:0.1/1

Left: 12.298 $\pm$ 32.893 χ^2 /NDF: 4.1/4

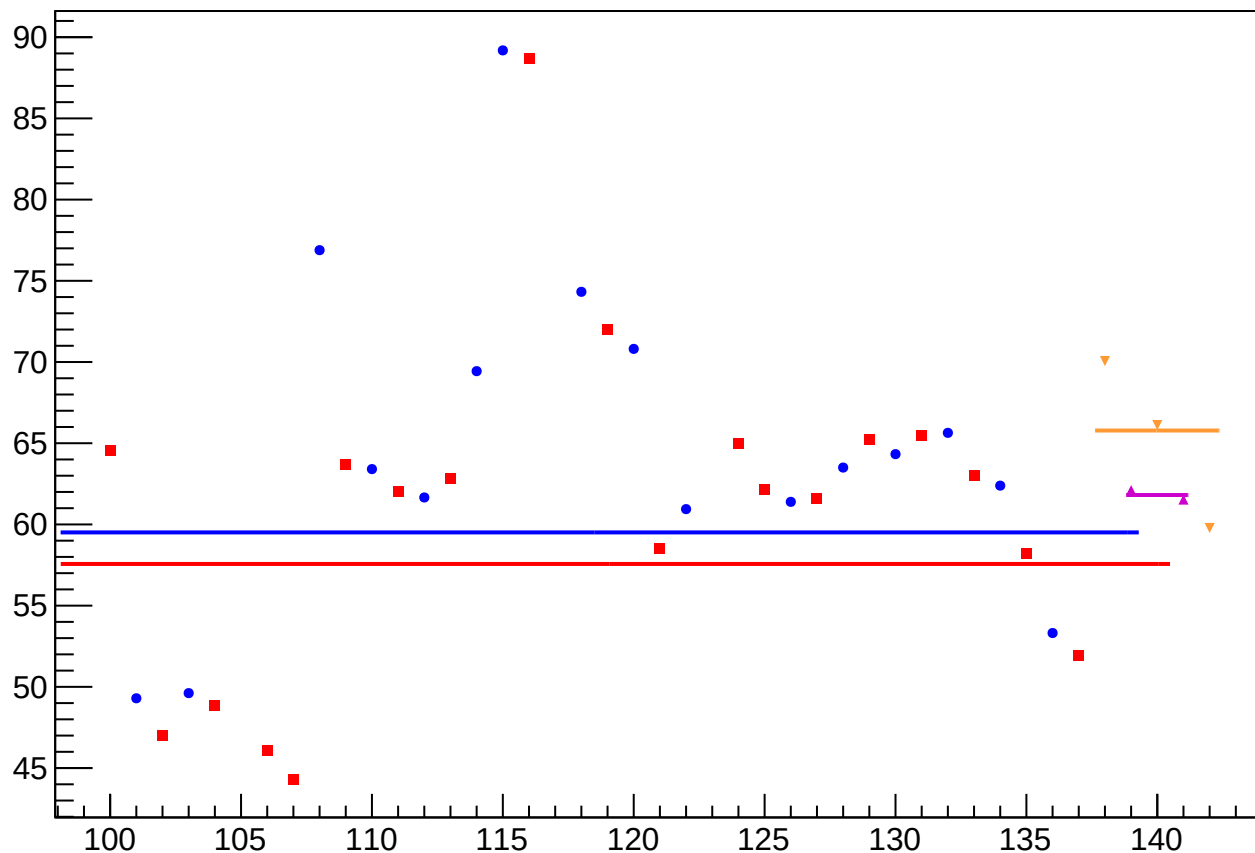
Right: 60.540 $\pm$ 15.578 χ^2 /NDF: 40.5/34

In: 25.770 $\pm$ 20.308 χ^2 /NDF:16.4/17

Out: 75.700 $\pm$ 19.536 χ^2 /NDF:26.8/21

All: 51.702 $\pm$ 14.079 χ^2 /NDF: 46.4/39

eigen_dit_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.509 $\pm$ 0.016 χ^2 /NDF: 283190.4/15

Left Out: 65.782 $\pm$ 0.033 χ^2 /NDF: 14693.2/2

Right Out: 57.567 $\pm$ 0.015 χ^2 /NDF: 347374.2/18

Left In: 61.812 $\pm$ 0.033 χ^2 /NDF: 75.7/1

Left: 63.841 $\pm$ 0.023 χ^2 /NDF: 22049.2/4

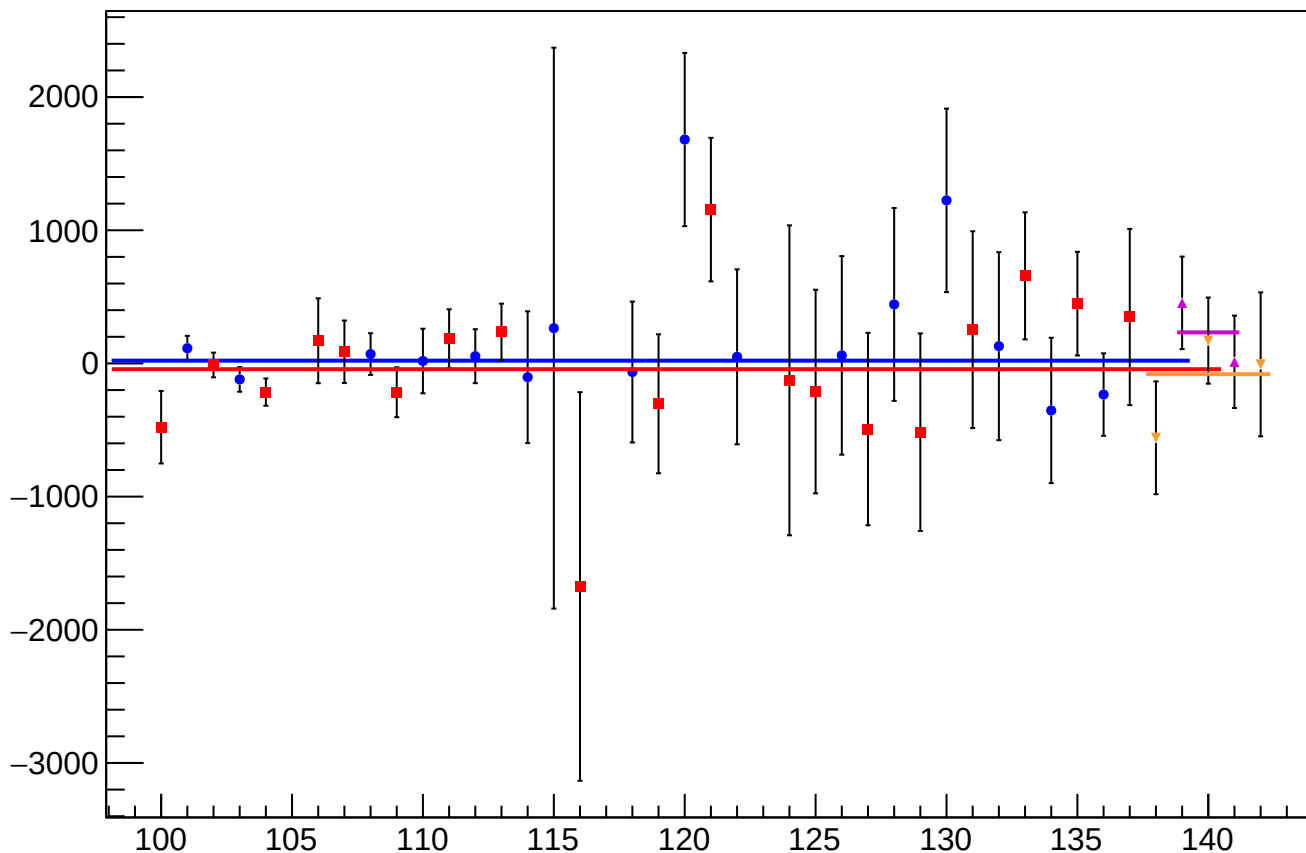
Right: 58.496 $\pm$ 0.011 χ^2 /NDF: 638320.1/34

In: 59.938 $\pm$ 0.014 χ^2 /NDF: 287167.7/17

Out: 59.048 $\pm$ 0.014 χ^2 /NDF: 414329.3/21

All: 59.476 $\pm$ 0.010 χ^2 /NDF: 703493.8/39

asym_sam_15_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 20.840+/-53.585 χ^2/NDF : 14.6/15

Left Out: -80.532+/-232.111 χ^2/NDF : 1.9/2

Right Out: -43.262+/-53.210 χ^2/NDF : 21.5/18

Left In: 233.052+/-245.504 χ^2/NDF : 0.8/1

Left: 67.473+/-168.663 χ^2/NDF : 3.6/4

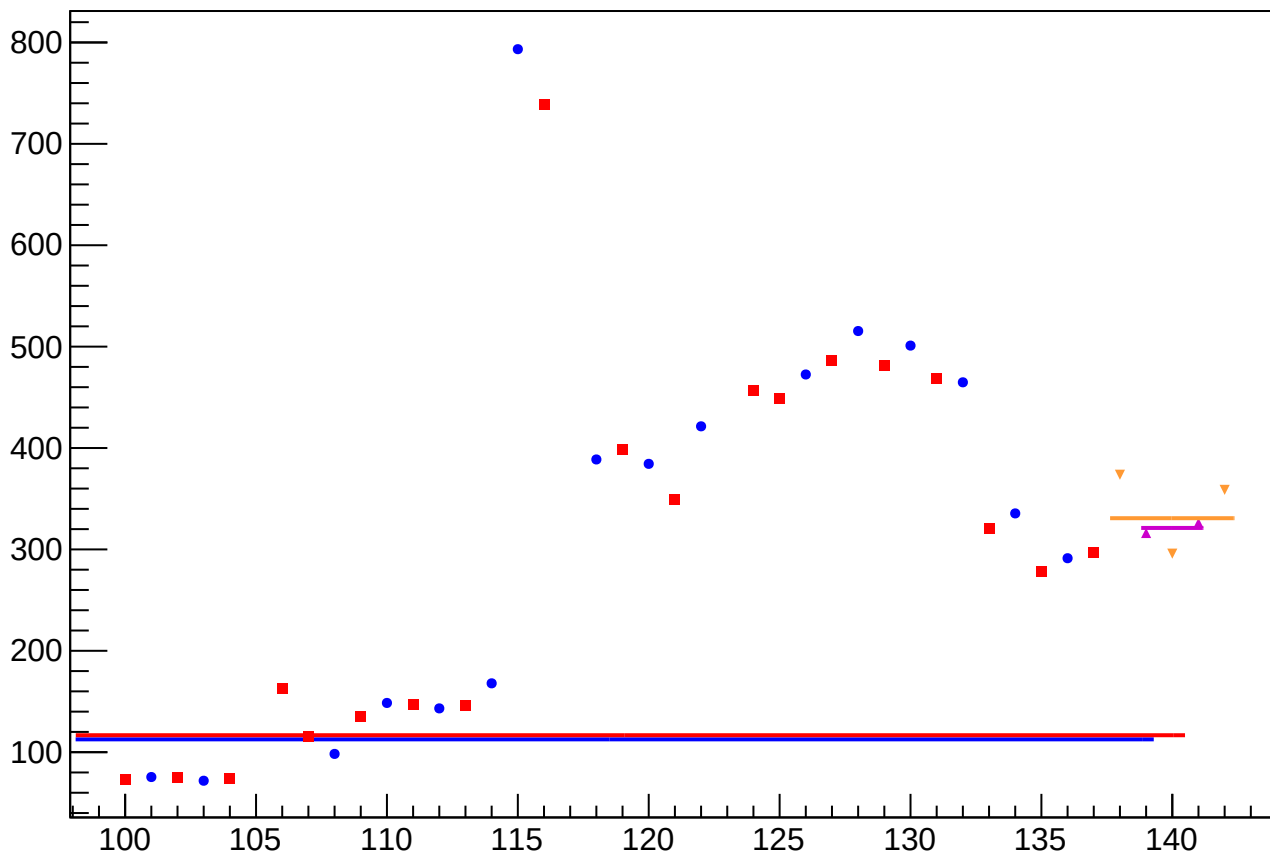
Right: -11.436+/-37.757 χ^2/NDF : 36.9/34

In: 30.490+/-52.353 χ^2/NDF : 16.1/17

Out: -45.123+/-51.865 χ^2/NDF : 23.4/21

All: -7.670+/-36.845 χ^2/NDF : 40.6/39

asym_sam_15_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 112.668 $\pm$ 0.038 χ^2/NDF : 5599653.6/15

Left Out: 330.781 $\pm$ 0.164 χ^2/NDF : 49218.4/2

Right Out: 116.732 $\pm$ 0.038 χ^2/NDF : 5141390.3/18

Left In: 321.174 $\pm$ 0.174 χ^2/NDF : 821.8/1

Left: 326.247 $\pm$ 0.119 χ^2/NDF : 51657.6/4

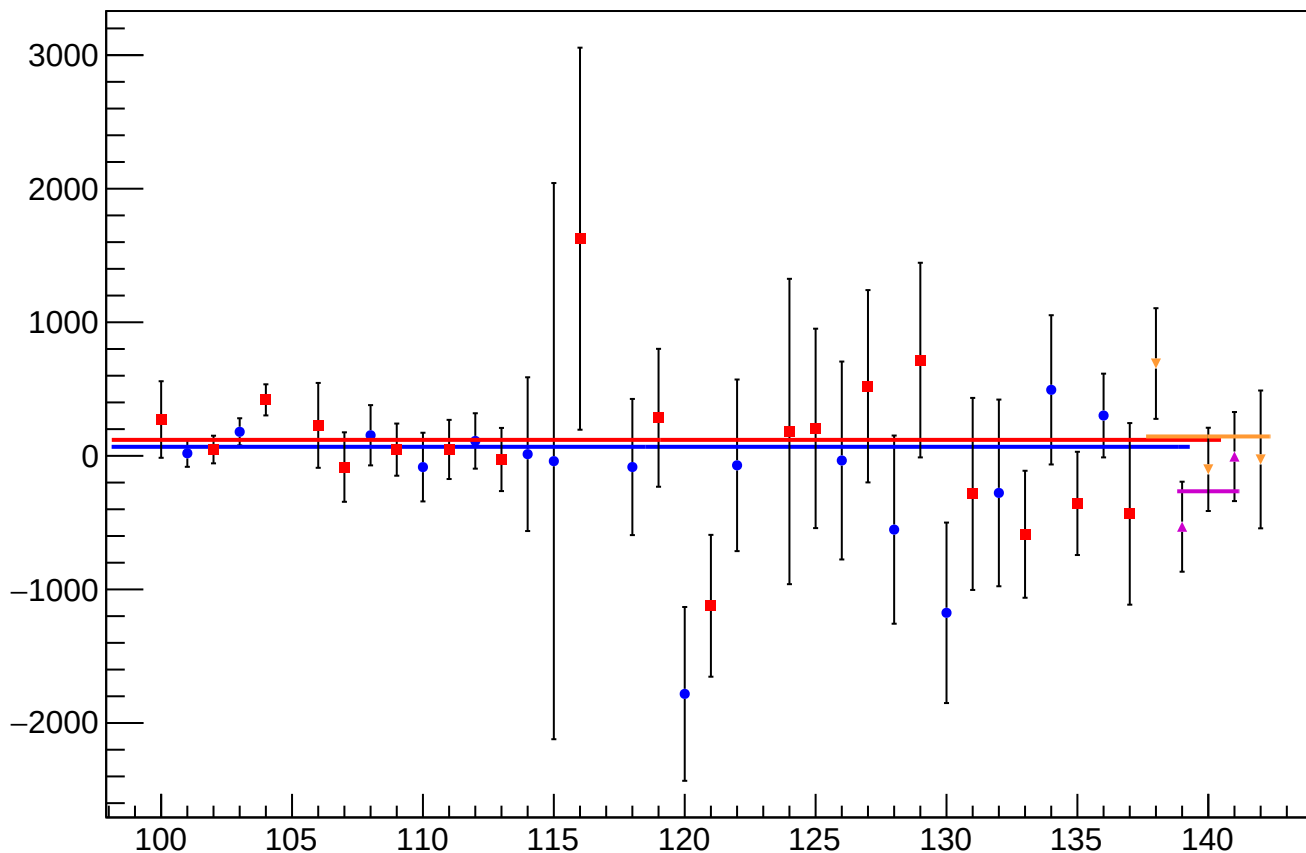
Right: 114.714 $\pm$ 0.027 χ^2/NDF : 10746837.6/34

In: 122.149 $\pm$ 0.037 χ^2/NDF : 6977485.4/17

Out: 127.420 $\pm$ 0.037 χ^2/NDF : 6806536.8/21

All: 124.809 $\pm$ 0.026 χ^2/NDF : 13794251.0/39

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 67.621+/-59.169 χ^2/NDF : 15.8/15

Left Out: 145.123+/-224.287 χ^2/NDF : 2.5/2

Right Out: 119.635+/-57.941 χ^2/NDF : 21.1/18

Left In: -265.202+/-237.009 χ^2/NDF : 1.2/1

Left: -48.732+/-162.907 χ^2/NDF : 5.3/4

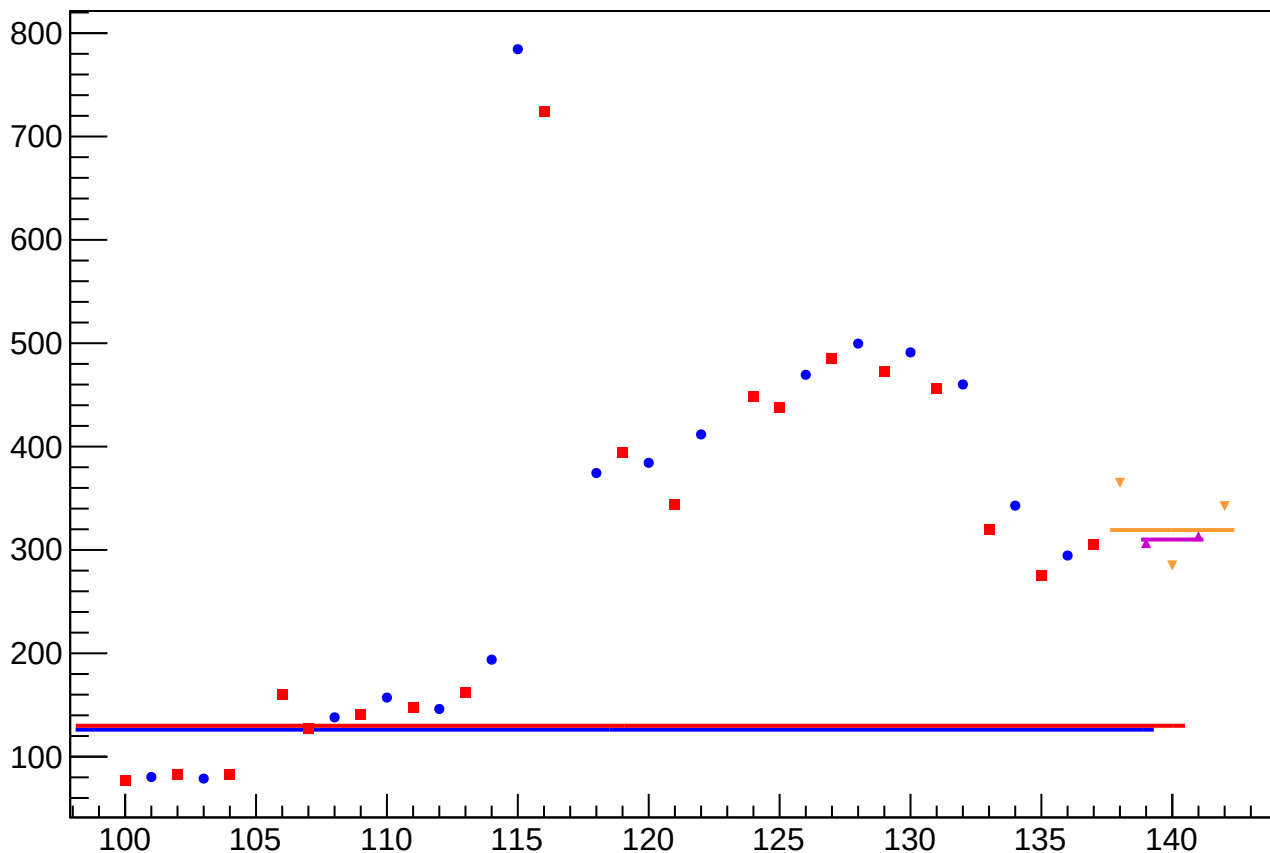
Right: 94.173+/-41.398 χ^2/NDF : 37.3/34

In: 48.095+/-57.407 χ^2/NDF : 18.9/17

Out: 121.230+/-56.100 χ^2/NDF : 23.6/21

All: 85.505+/-40.123 χ^2/NDF : 43.3/39

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 126.154+/-0.042 χ^2/NDF : 5220128.2/15

Left Out: 319.241+/-0.159 χ^2/NDF : 52520.8/2

Right Out: 129.914+/-0.041 χ^2/NDF : 4647677.8/18

Left In: 310.070+/-0.168 χ^2/NDF : 396.7/1

Left: 314.908+/-0.115 χ^2/NDF : 54497.4/4

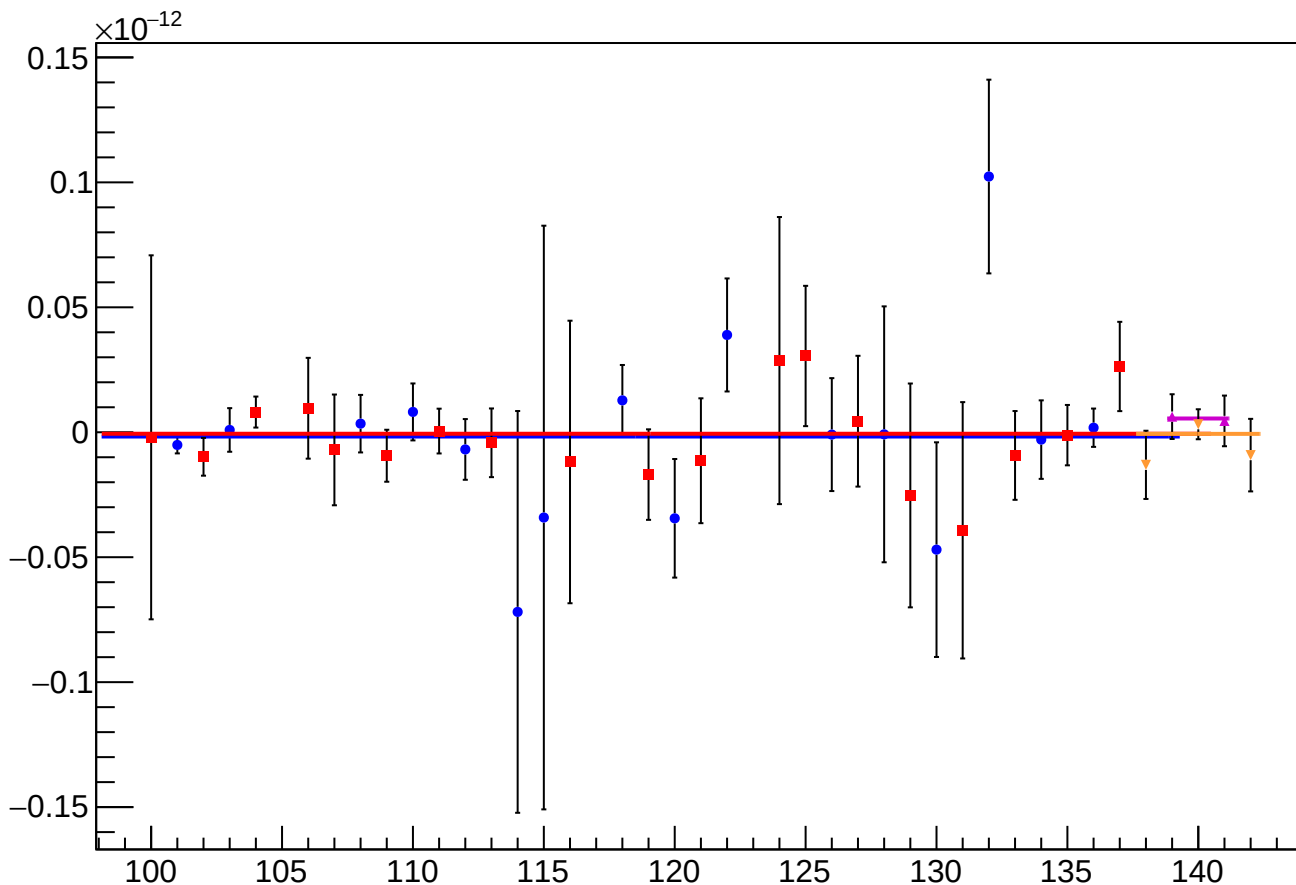
Right: 128.074+/-0.029 χ^2/NDF : 9871930.1/34

In: 136.944+/-0.041 χ^2/NDF : 6354179.4/17

Out: 141.759+/-0.040 χ^2/NDF : 6036134.6/21

All: 139.407+/-0.028 χ^2/NDF : 12397511.6/39

asym_sam_15_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 17.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.6/2

Right Out: -0.000+/-0.000 χ^2/NDF : 10.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 2.1/4

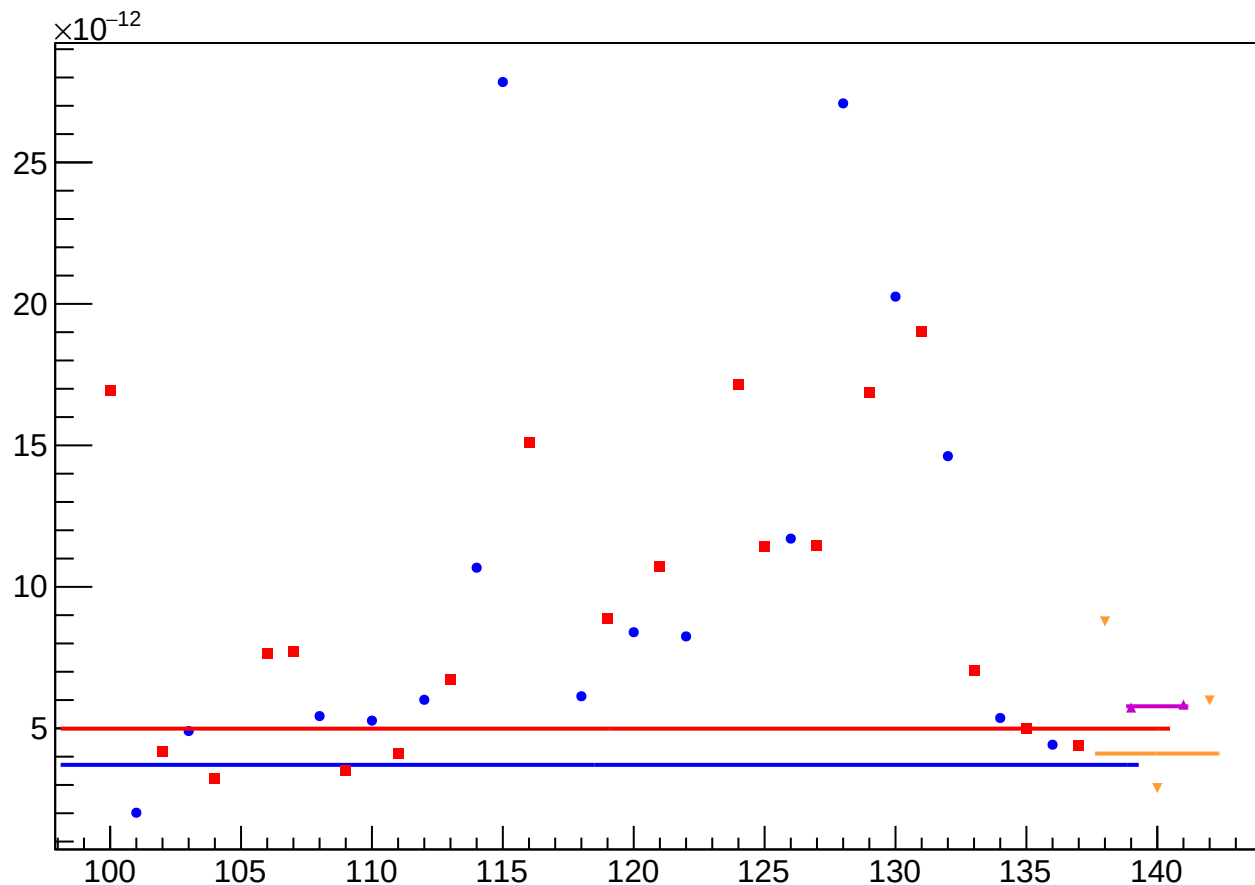
Right: -0.000+/-0.000 χ^2/NDF : 28.4/34

In: -0.000+/-0.000 χ^2/NDF : 18.8/17

Out: -0.000+/-0.000 χ^2/NDF : 12.1/21

All: -0.000+/-0.000 χ^2/NDF : 30.9/39

asym_sam_15_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2172466.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 350390.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1295374.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 114.0/1

Left: 0.000+/-0.000 χ^2/NDF : 428603.8/4

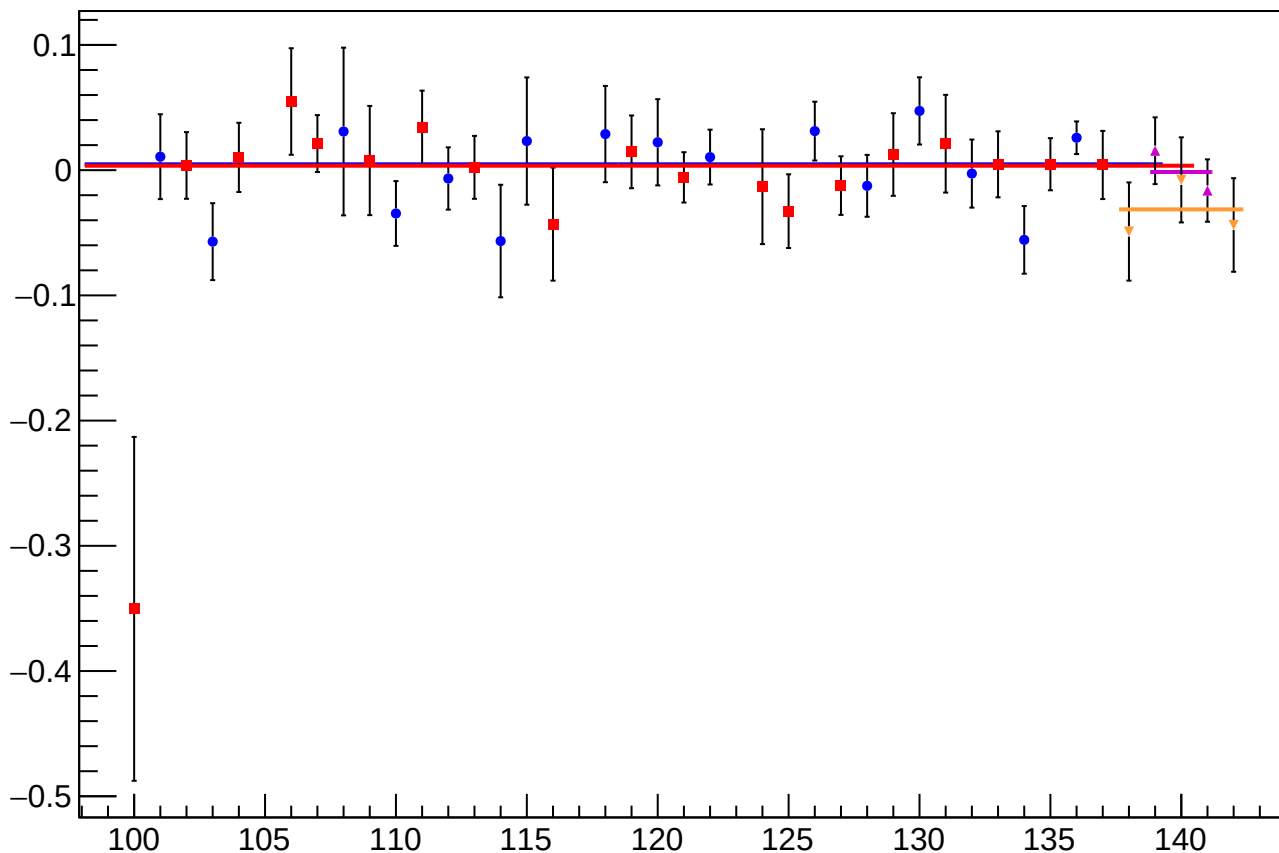
Right: 0.000+/-0.000 χ^2/NDF : 3664320.8/34

In: 0.000+/-0.000 χ^2/NDF : 2339234.2/17

Out: 0.000+/-0.000 χ^2/NDF : 1688021.5/21

All: 0.000+/-0.000 χ^2/NDF : 4119827.0/39

asym_sam_15_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.007 χ^2 /NDF: 21.5/15

Left Out: -0.031 $\pm$ 0.021 χ^2 /NDF:0.8/2

Right Out: 0.004 $\pm$ 0.007 χ^2 /NDF: 13.6/18

Left In: -0.001 $\pm$ 0.018 χ^2 /NDF:0.8/1

Left: -0.014 $\pm$ 0.014 χ^2 /NDF: 2.7/4

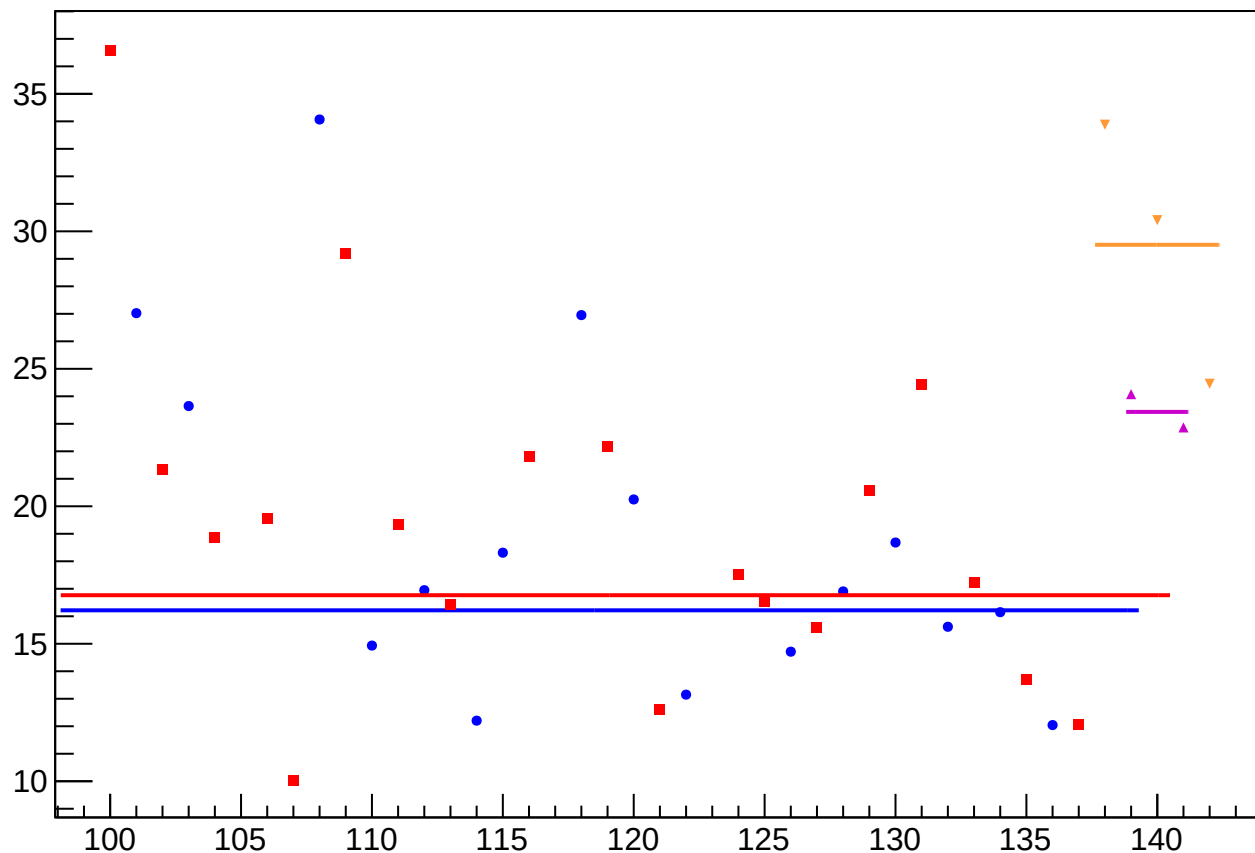
Right: 0.004 $\pm$ 0.005 χ^2 /NDF: 35.1/34

In: 0.004 $\pm$ 0.006 χ^2 /NDF:22.3/17

Out: 0.000 $\pm$ 0.006 χ^2 /NDF:16.9/21

All: 0.002 $\pm$ 0.004 χ^2 /NDF: 39.4/39

asym_sam_15_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 16.217+/-0.005 χ^2/NDF : 943864.9/15

Left Out: 29.510+/-0.015 χ^2/NDF : 62770.0/2

Right Out: 16.766+/-0.005 χ^2/NDF : 866715.7/18

Left In: 23.433+/-0.013 χ^2/NDF : 2199.4/1

Left: 26.016+/-0.010 χ^2/NDF : 159784.3/4

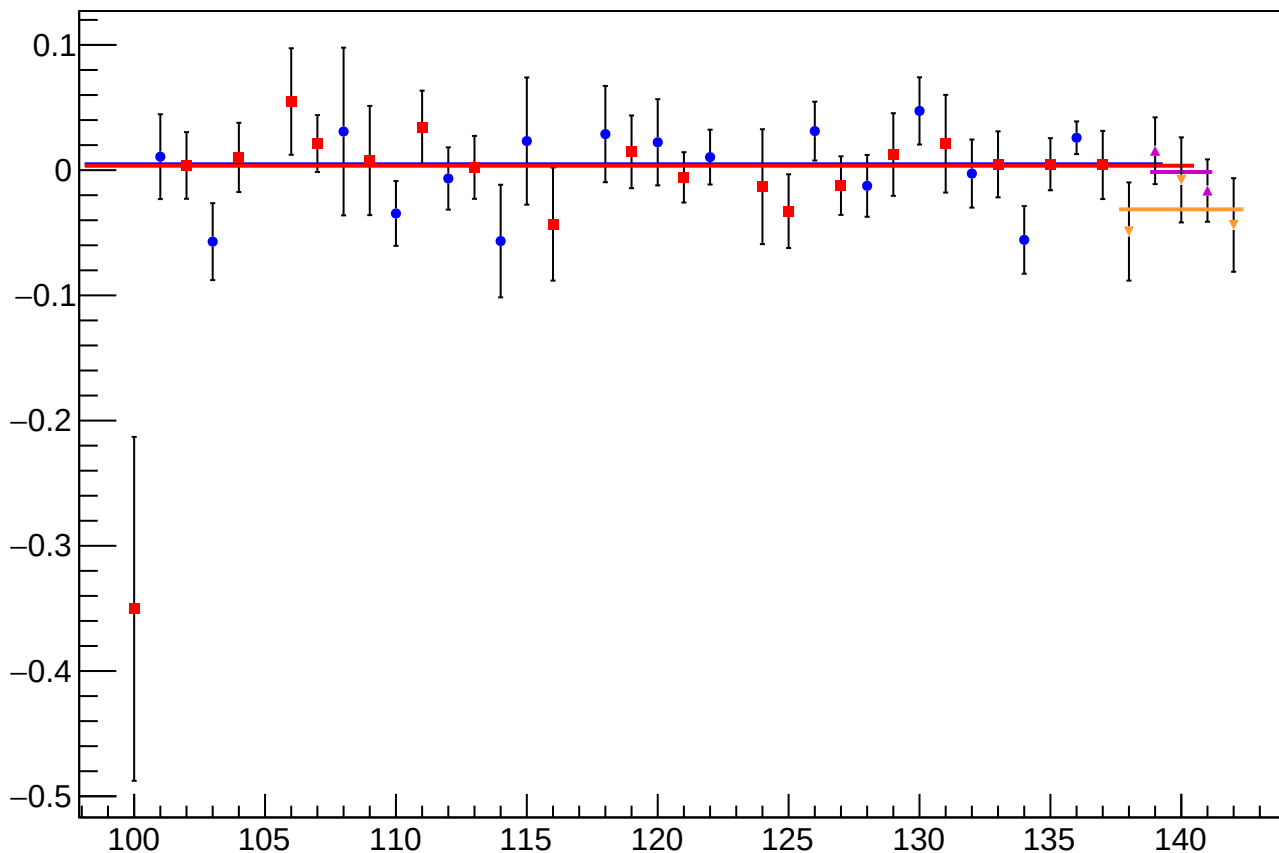
Right: 16.489+/-0.003 χ^2/NDF : 1817524.0/34

In: 17.047+/-0.004 χ^2/NDF : 1224258.0/17

Out: 17.904+/-0.004 χ^2/NDF : 1589918.2/21

All: 17.465+/-0.003 χ^2/NDF : 2832958.7/39

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.007 χ^2 /NDF: 21.5/15

Left Out: -0.031 $\pm$ 0.021 χ^2 /NDF:0.8/2

Right Out: 0.004 $\pm$ 0.007 χ^2 /NDF: 13.6/18

Left In: -0.001 $\pm$ 0.018 χ^2 /NDF:0.8/1

Left: -0.014 $\pm$ 0.014 χ^2 /NDF: 2.7/4

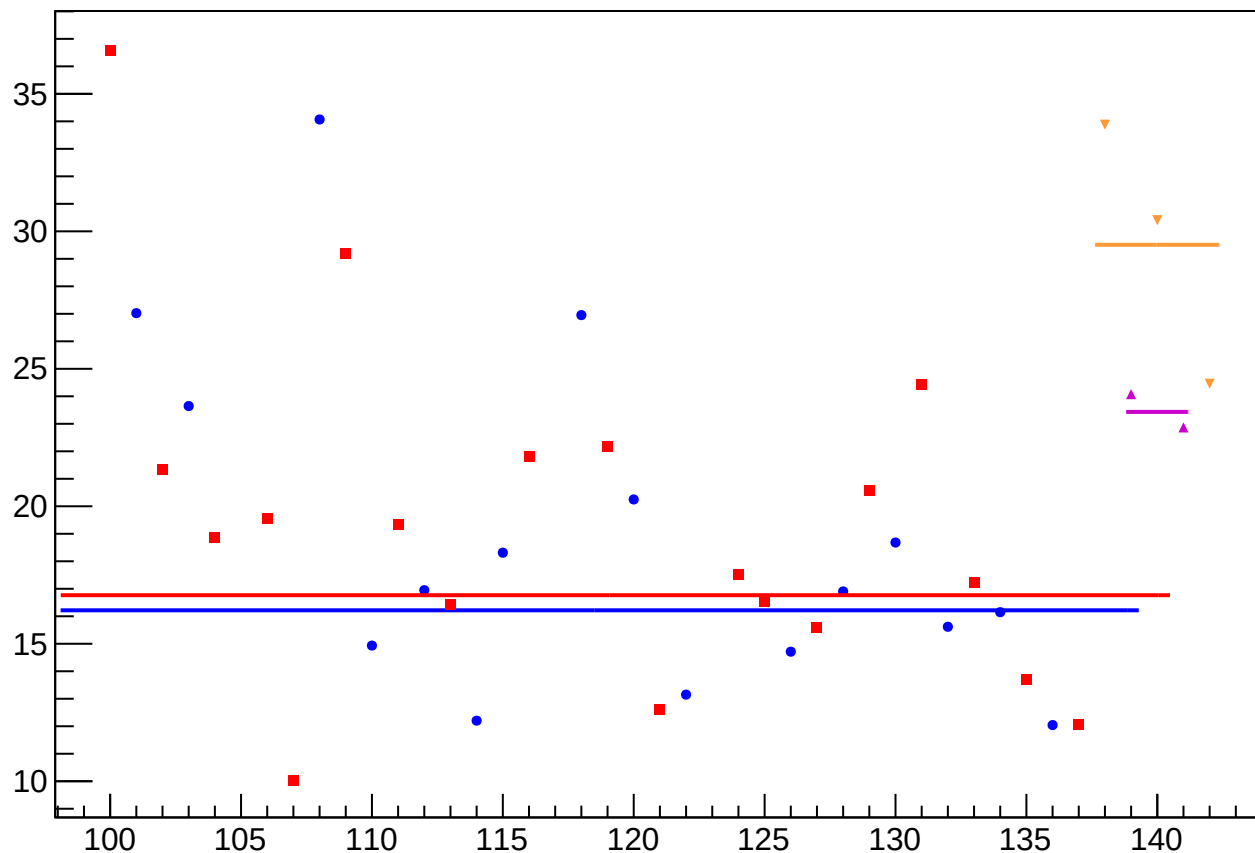
Right: 0.004 $\pm$ 0.005 χ^2 /NDF: 35.1/34

In: 0.004 $\pm$ 0.006 χ^2 /NDF:22.3/17

Out: 0.000 $\pm$ 0.006 χ^2 /NDF:16.9/21

All: 0.002 $\pm$ 0.004 χ^2 /NDF: 39.4/39

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 16.217+/-0.005 χ^2/NDF : 943864.9/15

Left Out: 29.510+/-0.015 χ^2/NDF : 62770.0/2

Right Out: 16.766+/-0.005 χ^2/NDF : 866715.7/18

Left In: 23.433+/-0.013 χ^2/NDF : 2199.4/1

Left: 26.016+/-0.010 χ^2/NDF : 159784.3/4

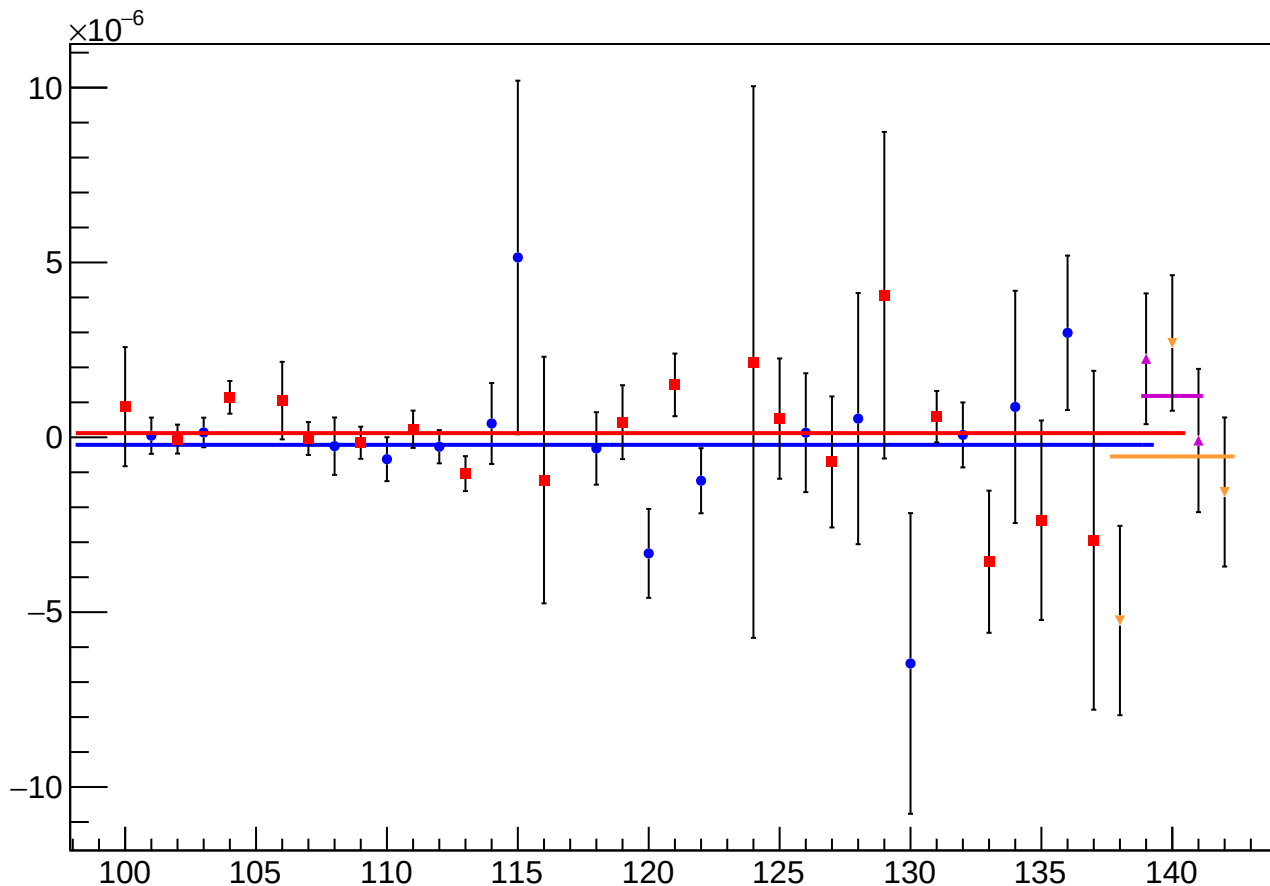
Right: 16.489+/-0.003 χ^2/NDF : 1817524.0/34

In: 17.047+/-0.004 χ^2/NDF : 1224258.0/17

Out: 17.904+/-0.004 χ^2/NDF : 1589918.2/21

All: 17.465+/-0.003 χ^2/NDF : 2832958.7/39

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 14.5/15

Left Out: -0.000+/-0.000 χ^2/NDF : 6.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 20.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.7/1

Left: 0.000+/-0.000 χ^2/NDF : 7.6/4

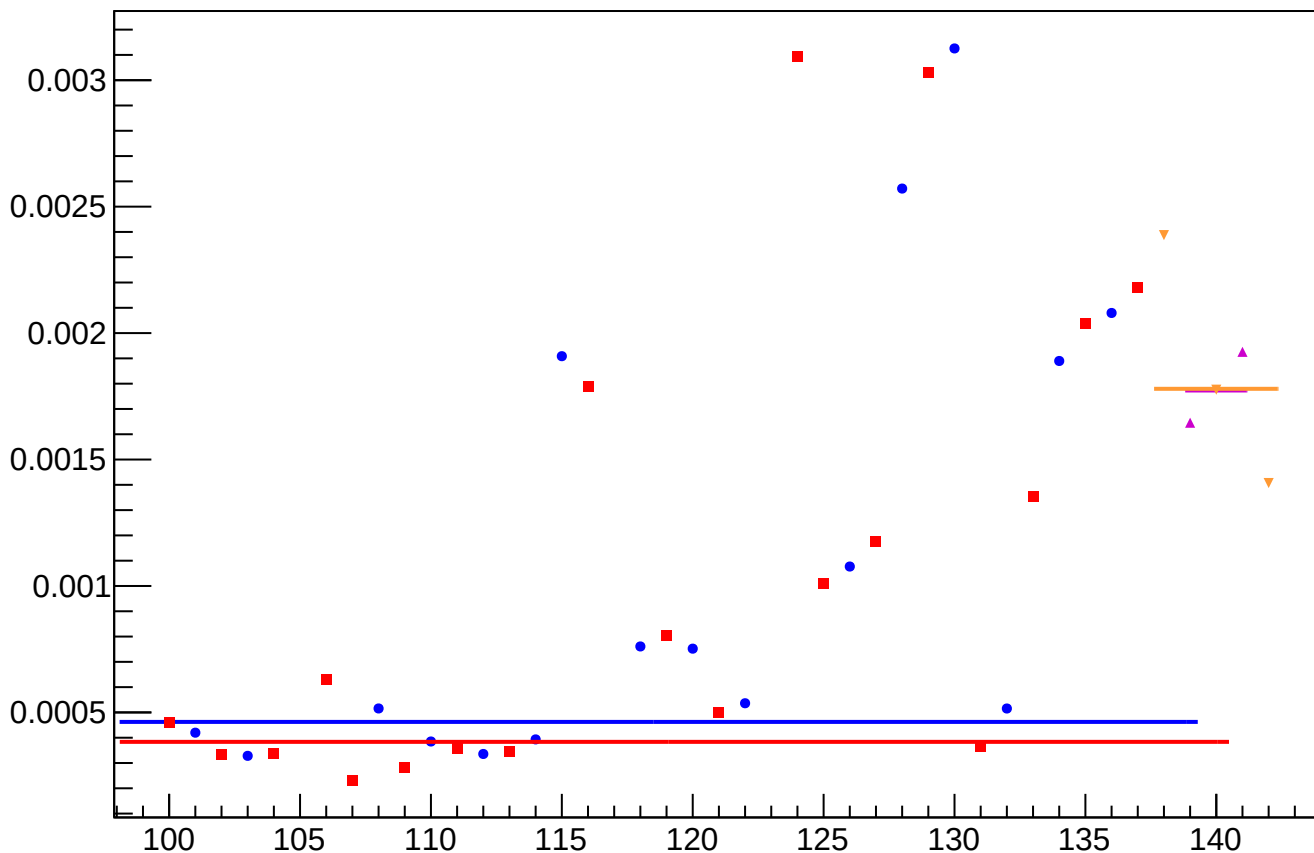
Right: -0.000+/-0.000 χ^2/NDF : 36.2/34

In: -0.000+/-0.000 χ^2/NDF : 16.2/17

Out: 0.000+/-0.000 χ^2/NDF : 26.5/21

All: -0.000+/-0.000 χ^2/NDF : 43.9/39

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 4015939.2/15

Left Out: 0.002+/-0.000

χ^2/NDF :161893.9/2

Right Out: 0.000+/-0.000

χ^2/NDF : 4058129.5/18

Left In: 0.002+/-0.000

χ^2/NDF :20430.3/1

Left: 0.002+/-0.000

χ^2/NDF : 182349.2/4

Right: 0.000+/-0.000

χ^2/NDF : 8244700.4/34

In: 0.000+/-0.000

χ^2/NDF :5797540.0/17

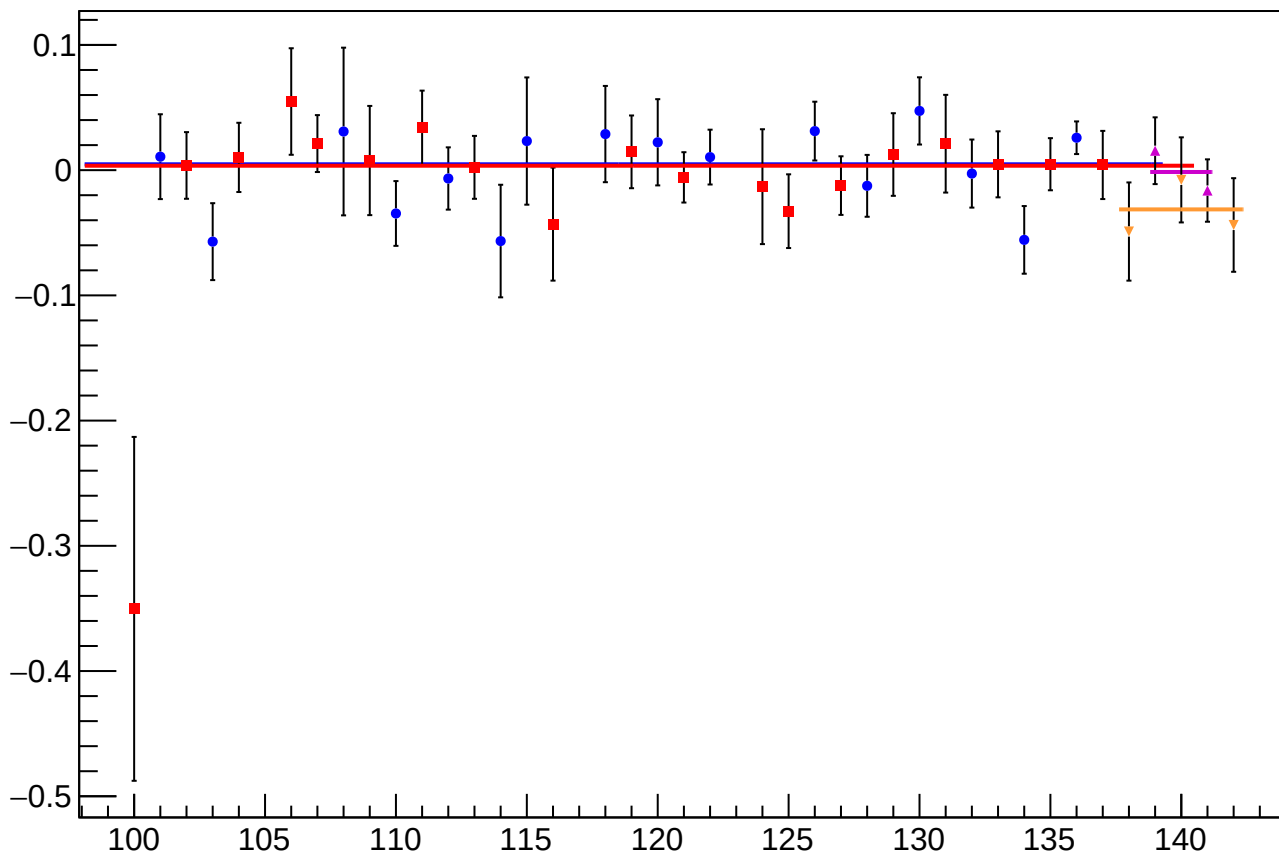
Out: 0.000+/-0.000

χ^2/NDF :6603211.3/21

All: 0.000+/-0.000

χ^2/NDF : 12590841.7/39

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.007 χ^2 /NDF: 21.5/15

Left Out: -0.031 $\pm$ 0.021 χ^2 /NDF:0.8/2

Right Out: 0.004 $\pm$ 0.007 χ^2 /NDF: 13.6/18

Left In: -0.001 $\pm$ 0.018 χ^2 /NDF:0.8/1

Left: -0.014 $\pm$ 0.014 χ^2 /NDF: 2.7/4

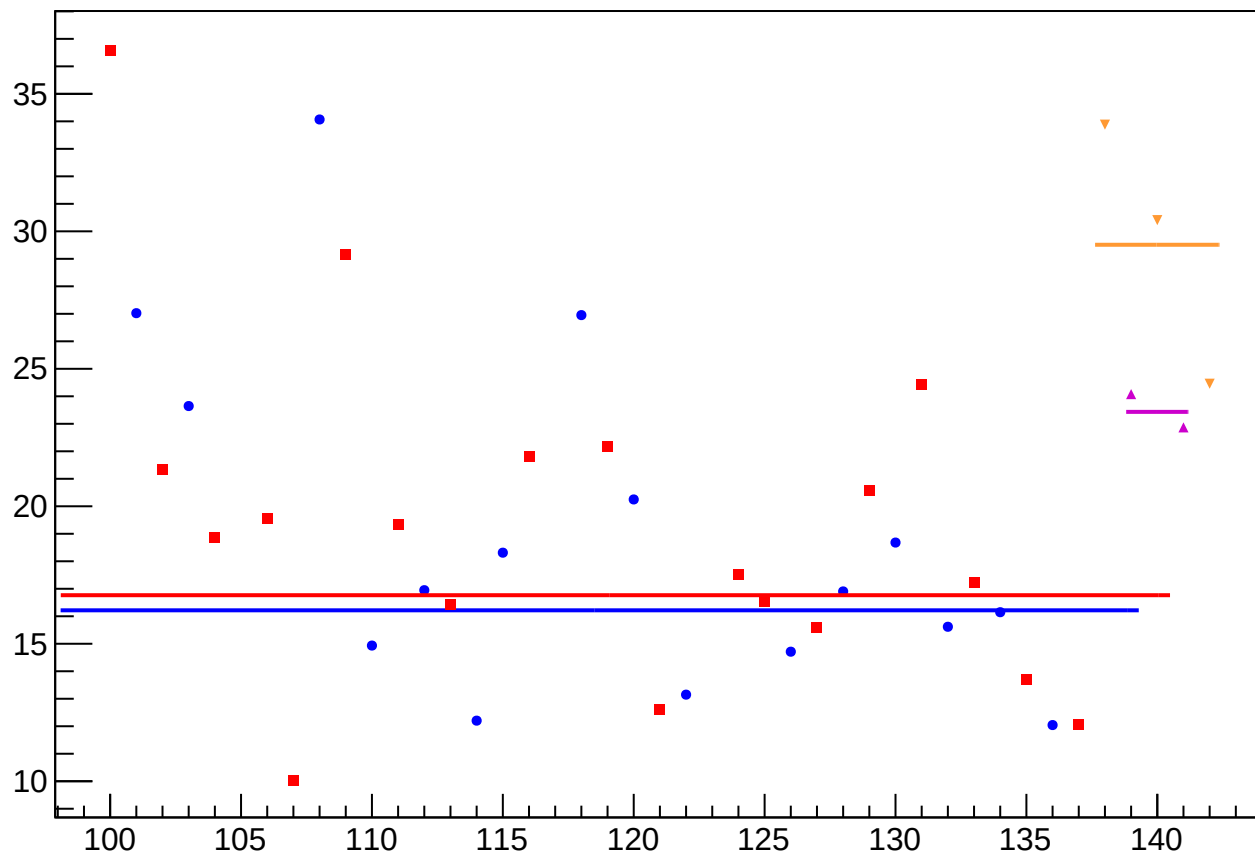
Right: 0.004 $\pm$ 0.005 χ^2 /NDF: 35.1/34

In: 0.004 $\pm$ 0.006 χ^2 /NDF:22.3/17

Out: 0.000 $\pm$ 0.006 χ^2 /NDF:16.9/21

All: 0.002 $\pm$ 0.004 χ^2 /NDF: 39.4/39

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 16.216+/-0.005 χ^2/NDF : 943830.6/15

Left Out: 29.511+/-0.015 χ^2/NDF : 62769.4/2

Right Out: 16.766+/-0.005 χ^2/NDF : 866705.3/18

Left In: 23.434+/-0.013 χ^2/NDF : 2198.8/1

Left: 26.017+/-0.010 χ^2/NDF : 159774.4/4

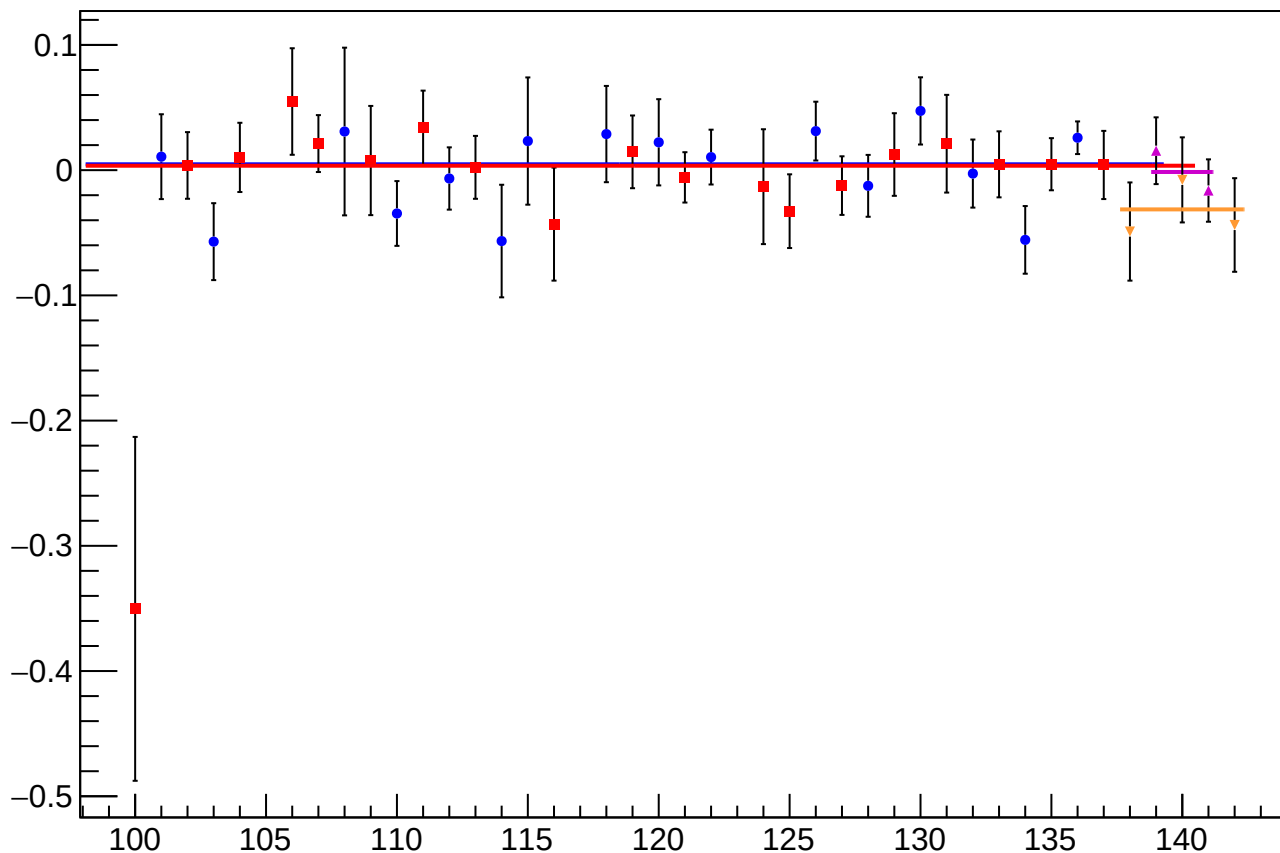
Right: 16.489+/-0.003 χ^2/NDF : 1817478.6/34

In: 17.047+/-0.004 χ^2/NDF : 1224299.3/17

Out: 17.904+/-0.004 χ^2/NDF : 1589999.8/21

All: 17.465+/-0.003 χ^2/NDF : 2833078.4/39

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.007 χ^2 /NDF: 21.5/15

Left Out: -0.031 $\pm$ 0.021 χ^2 /NDF:0.8/2

Right Out: 0.004 $\pm$ 0.007 χ^2 /NDF: 13.6/18

Left In: -0.001 $\pm$ 0.018 χ^2 /NDF:0.8/1

Left: -0.014 $\pm$ 0.014 χ^2 /NDF: 2.7/4

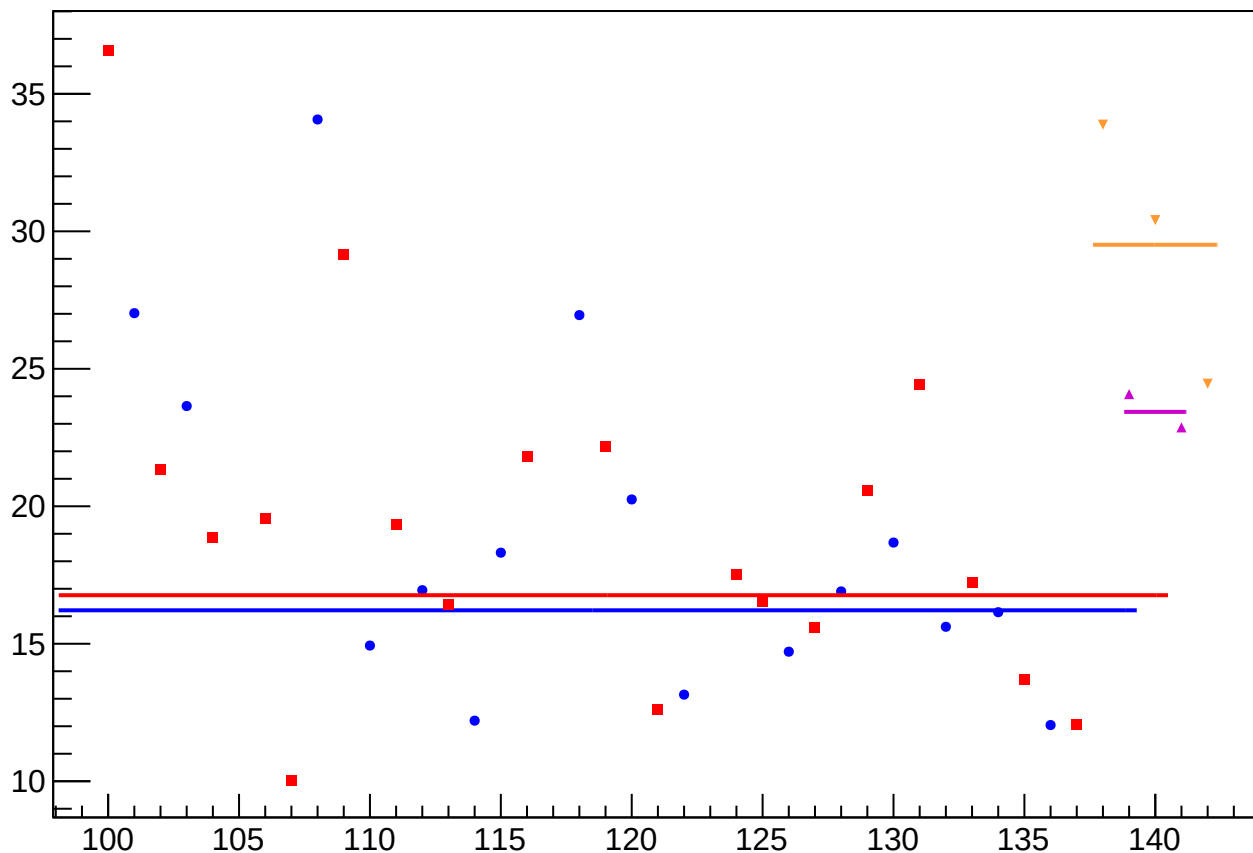
Right: 0.004 $\pm$ 0.005 χ^2 /NDF: 35.1/34

In: 0.004 $\pm$ 0.006 χ^2 /NDF:22.3/17

Out: 0.000 $\pm$ 0.006 χ^2 /NDF:16.9/21

All: 0.002 $\pm$ 0.004 χ^2 /NDF: 39.4/39

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 16.216+/-0.005 χ^2/NDF : 943830.6/15

Left Out: 29.511+/-0.015 χ^2/NDF : 62769.4/2

Right Out: 16.766+/-0.005 χ^2/NDF : 866705.3/18

Left In: 23.434+/-0.013 χ^2/NDF : 2198.8/1

Left: 26.017+/-0.010 χ^2/NDF : 159774.4/4

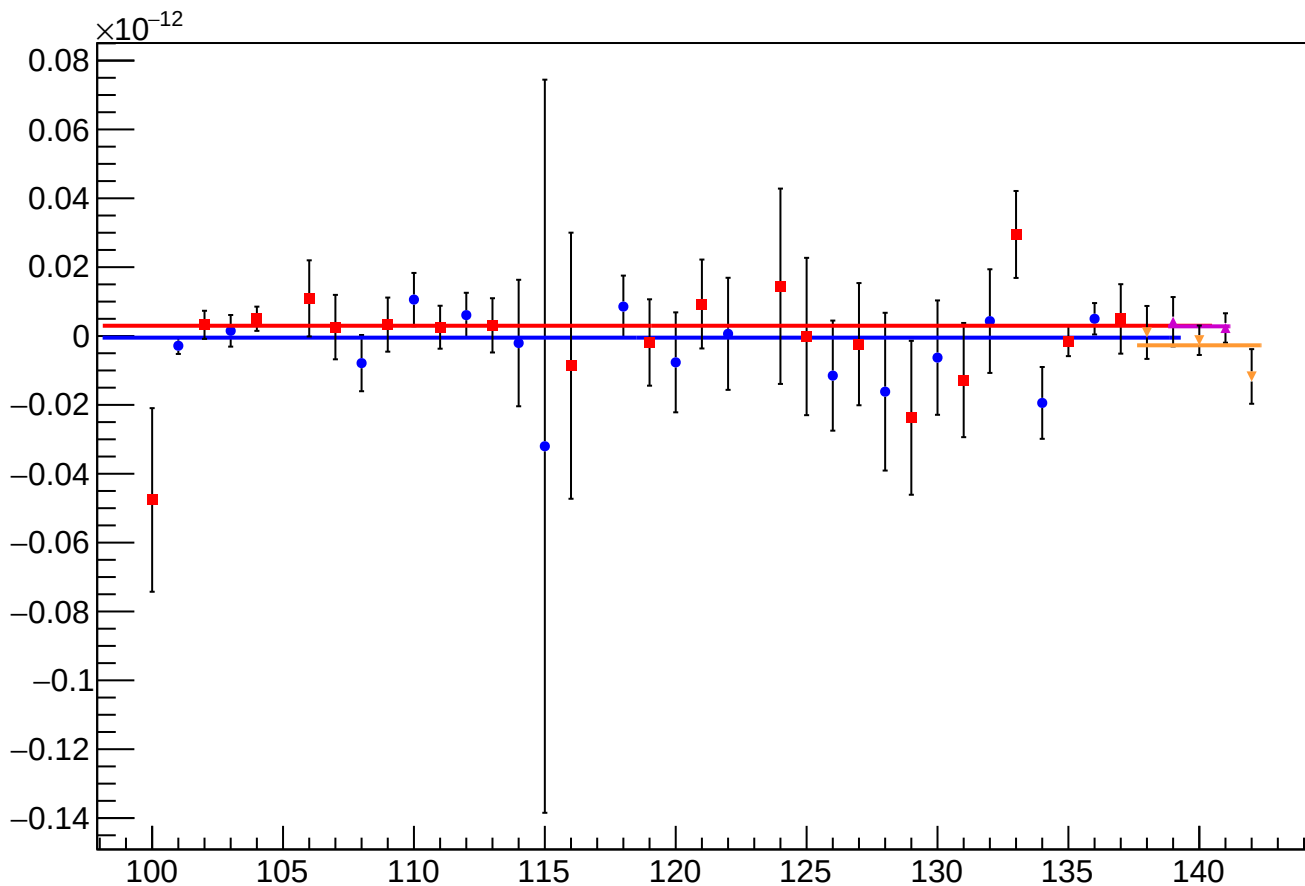
Right: 16.489+/-0.003 χ^2/NDF : 1817478.6/34

In: 17.047+/-0.004 χ^2/NDF : 1224299.3/17

Out: 17.904+/-0.004 χ^2/NDF : 1589999.8/21

All: 17.465+/-0.003 χ^2/NDF : 2833078.4/39

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 12.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 13.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 2.9/4

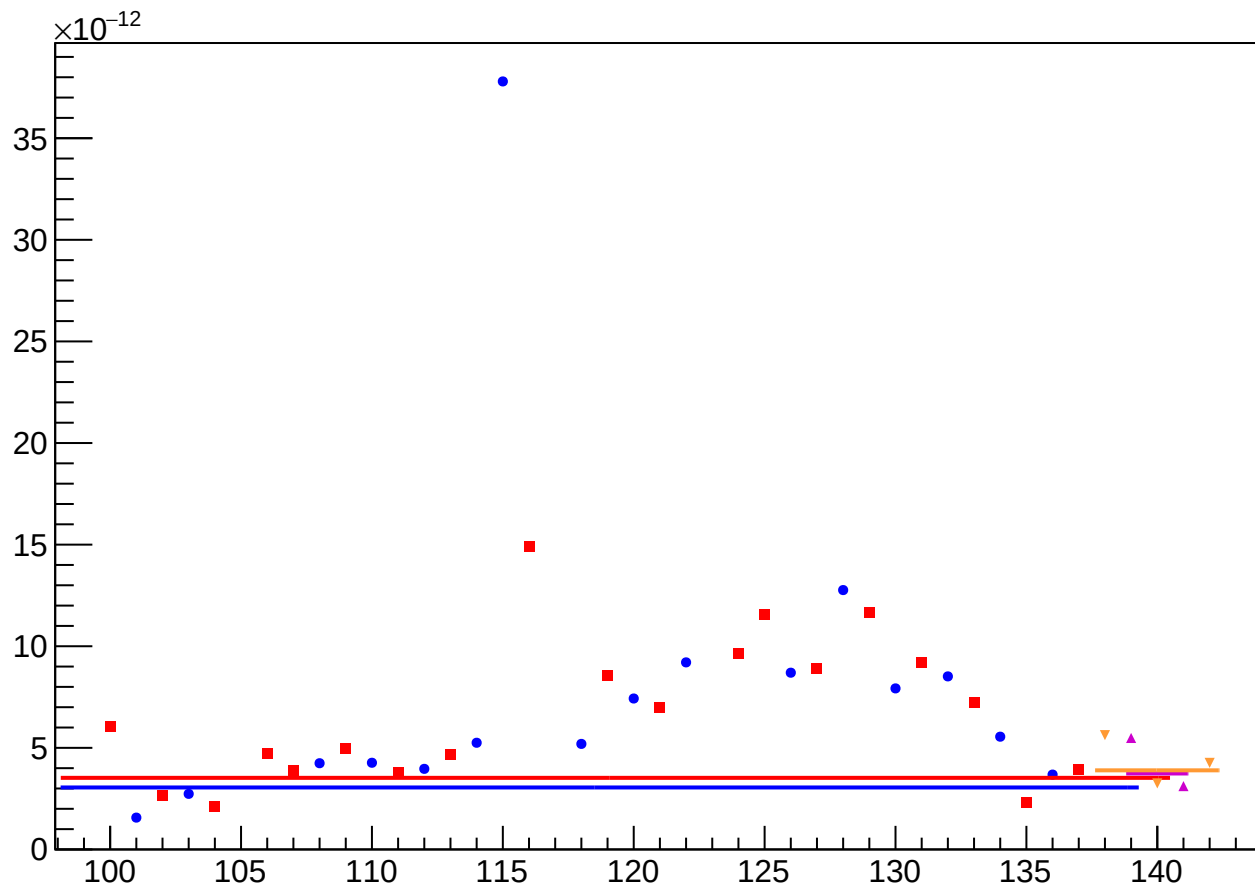
Right: 0.000+/-0.000 χ^2/NDF : 27.4/34

In: 0.000+/-0.000 χ^2/NDF : 13.0/17

Out: 0.000+/-0.000 χ^2/NDF : 16.9/21

All: 0.000+/-0.000 χ^2/NDF : 30.5/39

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2937232.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :150976.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2559080.1/18

Left In: 0.000+/-0.000 χ^2/NDF :161273.9/1

Left: 0.000+/-0.000 χ^2/NDF : 314176.9/4

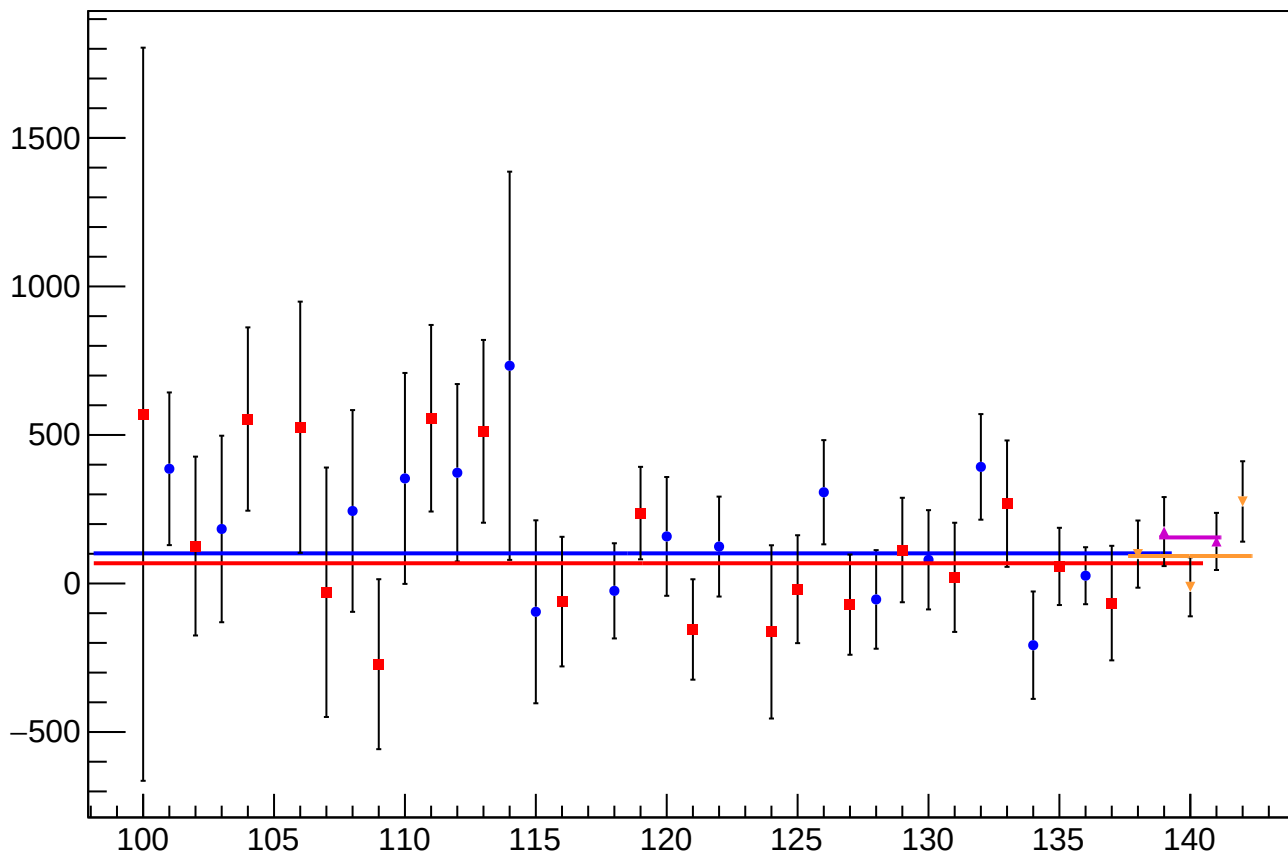
Right: 0.000+/-0.000 χ^2/NDF : 5572682.8/34

In: 0.000+/-0.000 χ^2/NDF :3157139.9/17

Out: 0.000+/-0.000 χ^2/NDF :2728711.7/21

All: 0.000+/-0.000 χ^2/NDF : 5967775.3/39

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 101.460 $\pm$ 47.631 χ^2 /NDF: 13.4/15

Left Out: 92.525 $\pm$ 65.344 χ^2 /NDF: 2.9/2

Right Out: 68.108 $\pm$ 49.327 χ^2 /NDF: 16.1/18

Left In: 155.069 $\pm$ 74.081 χ^2 /NDF: 0.0/1

Left: 119.893 $\pm$ 49.005 χ^2 /NDF: 3.4/4

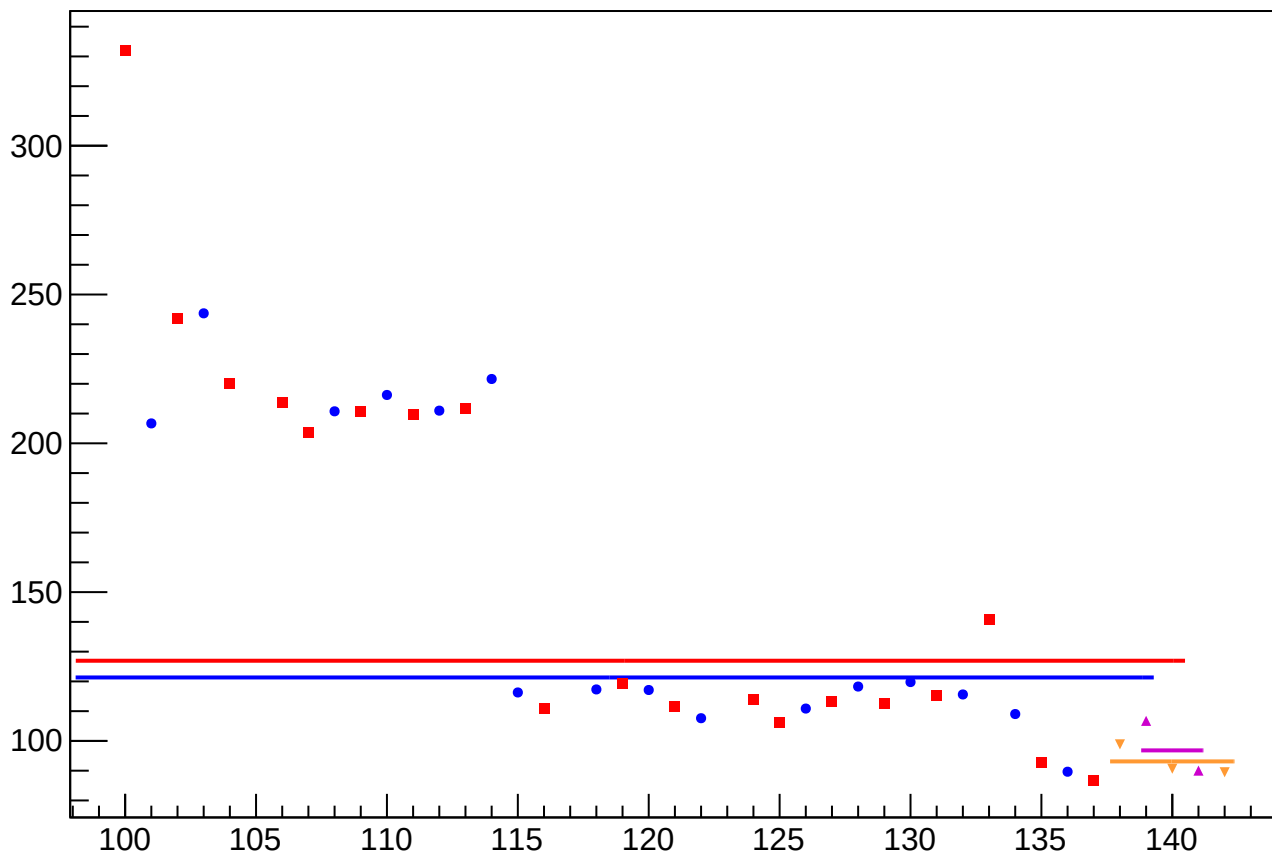
Right: 85.367 $\pm$ 34.264 χ^2 /NDF: 29.7/34

In: 117.139 $\pm$ 40.064 χ^2 /NDF: 13.8/17

Out: 76.971 $\pm$ 39.369 χ^2 /NDF: 19.2/21

All: 96.704 $\pm$ 28.081 χ^2 /NDF: 33.4/39

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 121.325 $\pm$ 0.034 χ^2 /NDF: 1286651.5/15

Left Out: 93.116 $\pm$ 0.046 χ^2 /NDF:7802.6/2

Right Out: 126.945 $\pm$ 0.035 χ^2 /NDF: 1471592.1/18

Left In: 96.820 $\pm$ 0.052 χ^2 /NDF:24583.8/1

Left: 94.737 $\pm$ 0.035 χ^2 /NDF: 35199.4/4

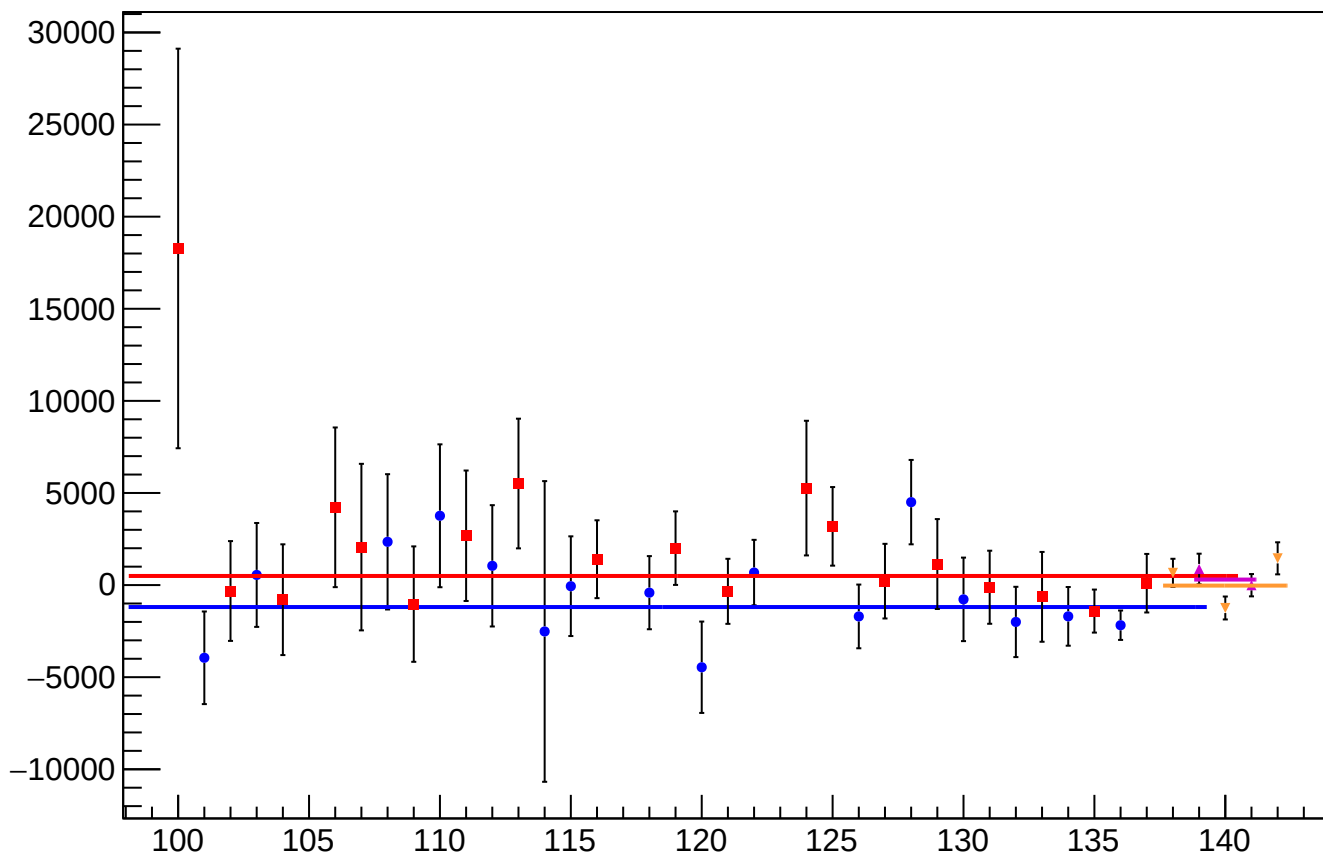
Right: 124.037 $\pm$ 0.024 χ^2 /NDF: 2771675.2/34

In: 114.158 $\pm$ 0.028 χ^2 /NDF:1466072.1/17

Out: 114.665 $\pm$ 0.028 χ^2 /NDF:1820856.0/21

All: 114.416 $\pm$ 0.020 χ^2 /NDF: 3287090.8/39

asym_sam_26_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1192.168 $\pm$ 478.908 χ^2 /NDF: 15.9/15

Left Out: -28.725 $\pm$ 422.157 χ^2 /NDF: 7.5/2

Right Out: 494.627 $\pm$ 521.756 χ^2 /NDF: 13.9/18

Left In: 298.916 $\pm$ 489.282 χ^2 /NDF: 0.7/1

Left: 111.096 $\pm$ 319.629 χ^2 /NDF: 8.5/4

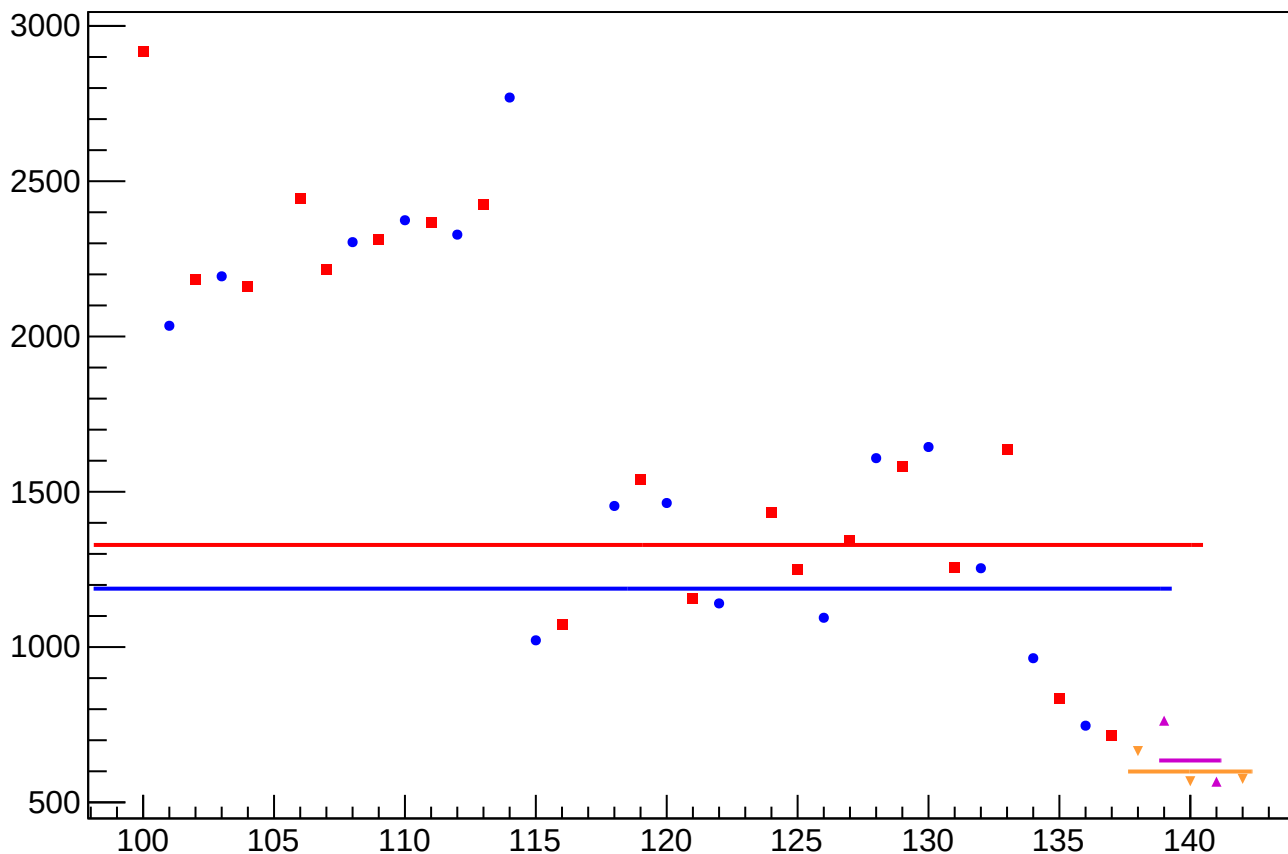
Right: -420.866 $\pm$ 352.816 χ^2 /NDF: 35.5/34

In: -462.600 $\pm$ 342.248 χ^2 /NDF: 21.4/17

Out: 178.337 $\pm$ 328.186 χ^2 /NDF: 22.0/21

All: -128.695 $\pm$ 236.878 χ^2 /NDF: 45.2/39

asym_sam_26_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1188.069+/-0.339 χ^2/NDF : 2044635.7/15

Left Out: 599.282+/-0.299 χ^2/NDF : 21377.1/2

Right Out: 1328.816+/-0.369 χ^2/NDF : 1957758.3/18

Left In: 634.812+/-0.346 χ^2/NDF : 73043.4/1

Left: 614.444+/-0.226 χ^2/NDF : 100466.2/4

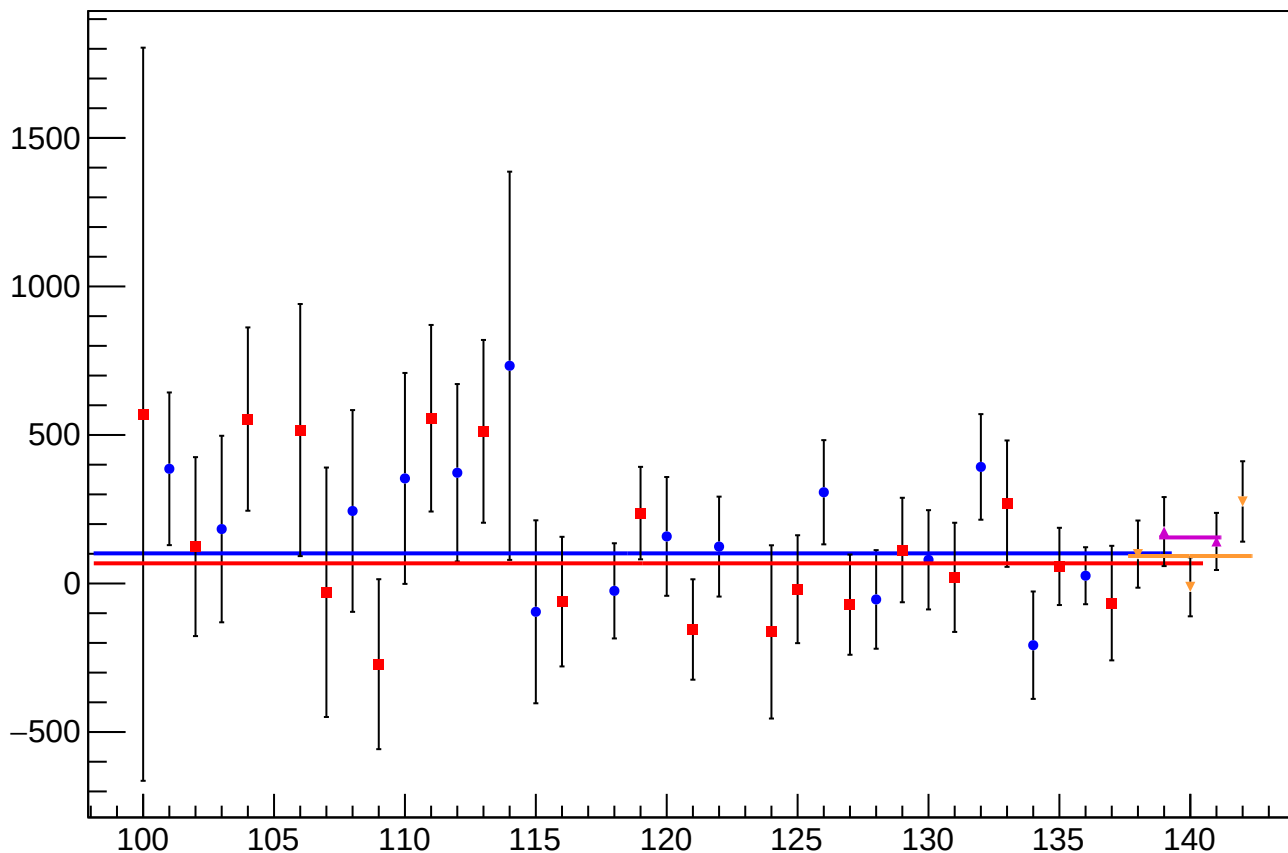
Right: 1252.427+/-0.249 χ^2/NDF : 4081382.8/34

In: 917.368+/-0.242 χ^2/NDF : 3423681.6/17

Out: 887.919+/-0.232 χ^2/NDF : 4342219.9/21

All: 902.026+/-0.167 χ^2/NDF : 7773615.9/39

cor_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 101.446 $\pm$ 47.631 χ^2 /NDF: 13.3/15

Left Out: 92.533 $\pm$ 65.344 χ^2 /NDF: 2.9/2

Right Out: 67.881 $\pm$ 49.331 χ^2 /NDF: 16.1/18

Left In: 155.079 $\pm$ 74.081 χ^2 /NDF: 0.0/1

Left: 119.902 $\pm$ 49.005 χ^2 /NDF: 3.4/4

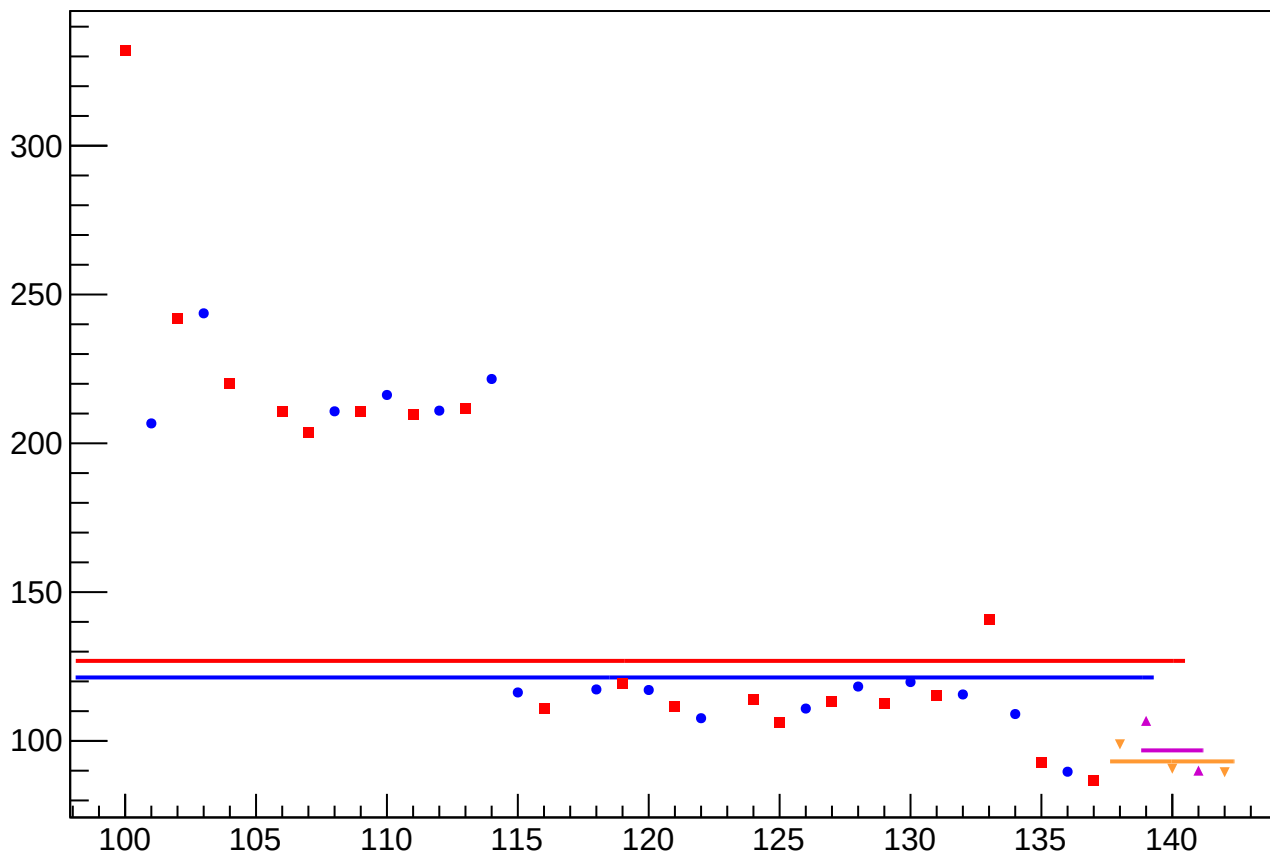
Right: 85.252 $\pm$ 34.265 χ^2 /NDF: 29.7/34

In: 117.133 $\pm$ 40.064 χ^2 /NDF: 13.8/17

Out: 76.831 $\pm$ 39.371 χ^2 /NDF: 19.1/21

All: 96.630 $\pm$ 28.081 χ^2 /NDF: 33.4/39

cor_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 121.325 $\pm$ 0.034 χ^2 /NDF: 1286654.0/15

Left Out: 93.116 $\pm$ 0.046 χ^2 /NDF:7802.6/2

Right Out: 126.895 $\pm$ 0.035 χ^2 /NDF: 1465478.6/18

Left In: 96.820 $\pm$ 0.052 χ^2 /NDF:24583.8/1

Left: 94.737 $\pm$ 0.035 χ^2 /NDF: 35199.4/4

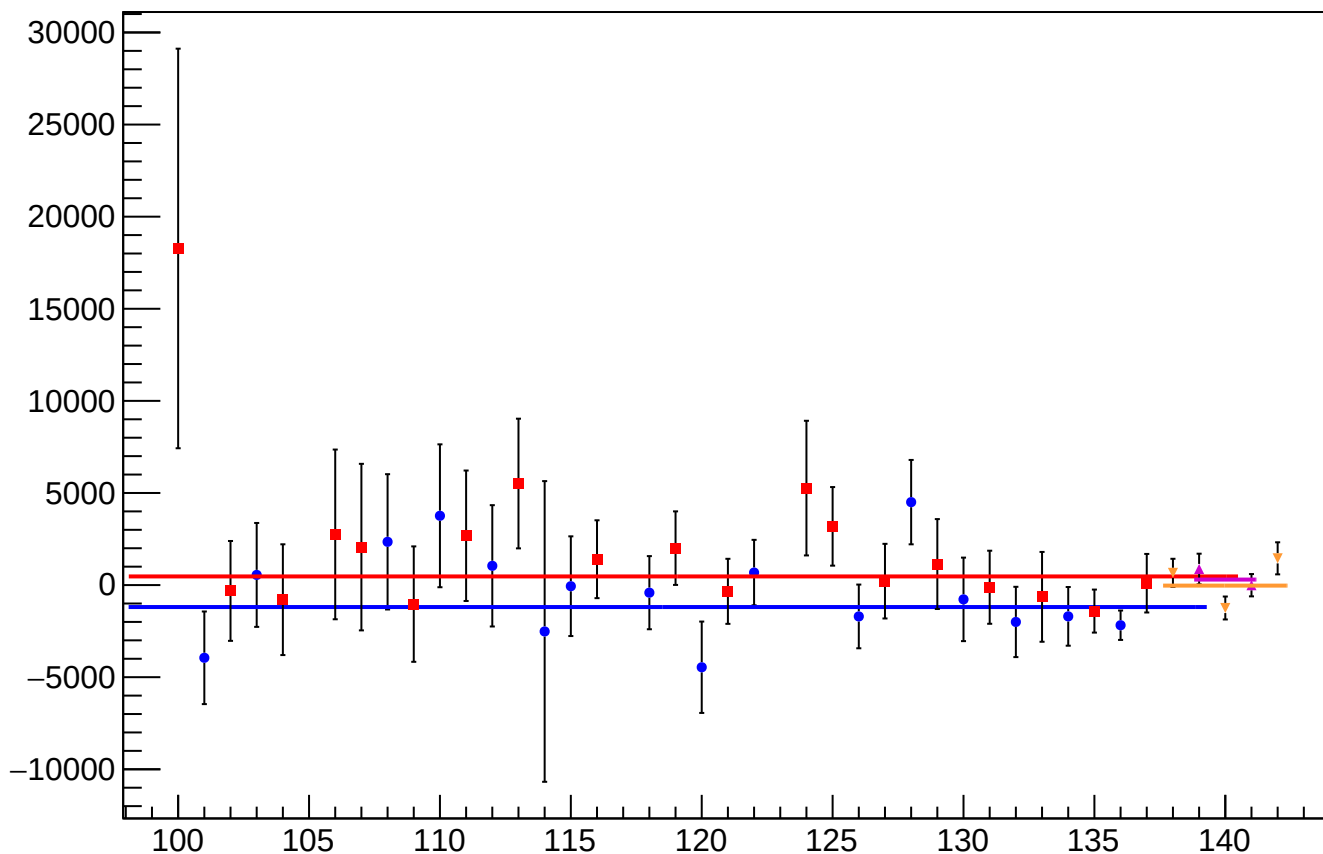
Right: 124.013 $\pm$ 0.024 χ^2 /NDF: 2765325.4/34

In: 114.158 $\pm$ 0.028 χ^2 /NDF:1466074.5/17

Out: 114.632 $\pm$ 0.028 χ^2 /NDF:1813718.3/21

All: 114.399 $\pm$ 0.020 χ^2 /NDF: 3279935.1/39

asym_sam_26_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1192.145 $\pm$ 478.909 χ^2 /NDF: 15.9/15

Left Out: -28.711 $\pm$ 422.157 χ^2 /NDF: 7.5/2

Right Out: 469.736 $\pm$ 522.203 χ^2 /NDF: 13.4/18

Left In: 298.930 $\pm$ 489.282 χ^2 /NDF: 0.7/1

Left: 111.110 $\pm$ 319.629 χ^2 /NDF: 8.5/4

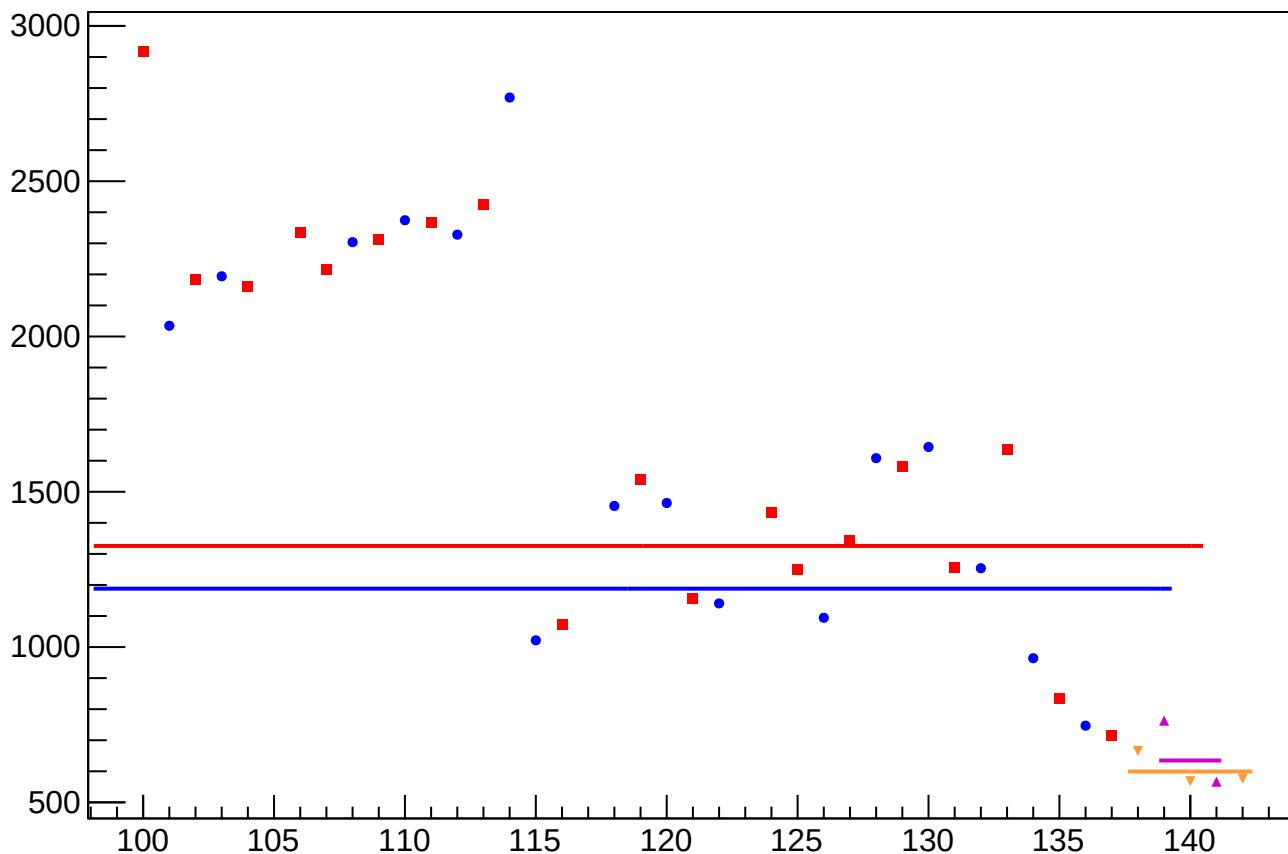
Right: -432.941 $\pm$ 352.955 χ^2 /NDF: 34.8/34

In: -462.581 $\pm$ 342.248 χ^2 /NDF: 21.4/17

Out: 168.293 $\pm$ 328.297 χ^2 /NDF: 21.4/21

All: -134.024 $\pm$ 236.920 χ^2 /NDF: 44.6/39

asym_sam_26_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1188.069+/-0.339 χ^2/NDF : 2044666.3/15

Left Out: 599.282+/-0.299 χ^2/NDF : 21377.3/2

Right Out: 1325.564+/-0.369 χ^2/NDF : 1920986.7/18

Left In: 634.812+/-0.346 χ^2/NDF : 73042.9/1

Left: 614.444+/-0.226 χ^2/NDF : 100466.1/4

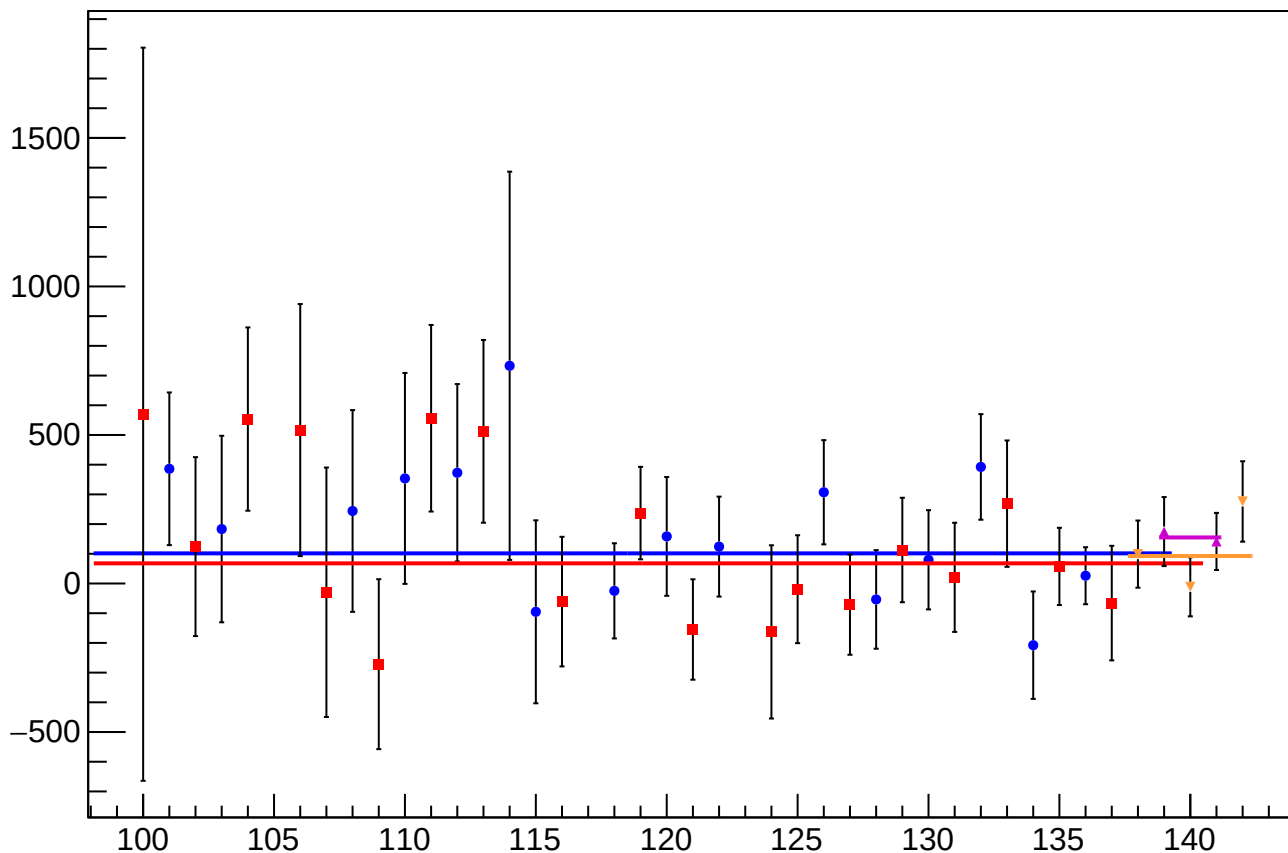
Right: 1250.882+/-0.250 χ^2/NDF : 4040963.9/34

In: 917.368+/-0.242 χ^2/NDF : 3423706.5/17

Out: 886.334+/-0.232 χ^2/NDF : 4282003.7/21

All: 901.205+/-0.168 χ^2/NDF : 7714274.4/39

eigen_cor_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 101.446 $\pm$ 47.631 χ^2 /NDF: 13.3/15

Left Out: 92.533 $\pm$ 65.344 χ^2 /NDF: 2.9/2

Right Out: 67.881 $\pm$ 49.331 χ^2 /NDF: 16.1/18

Left In: 155.079 $\pm$ 74.081 χ^2 /NDF: 0.0/1

Left: 119.902 $\pm$ 49.005 χ^2 /NDF: 3.4/4

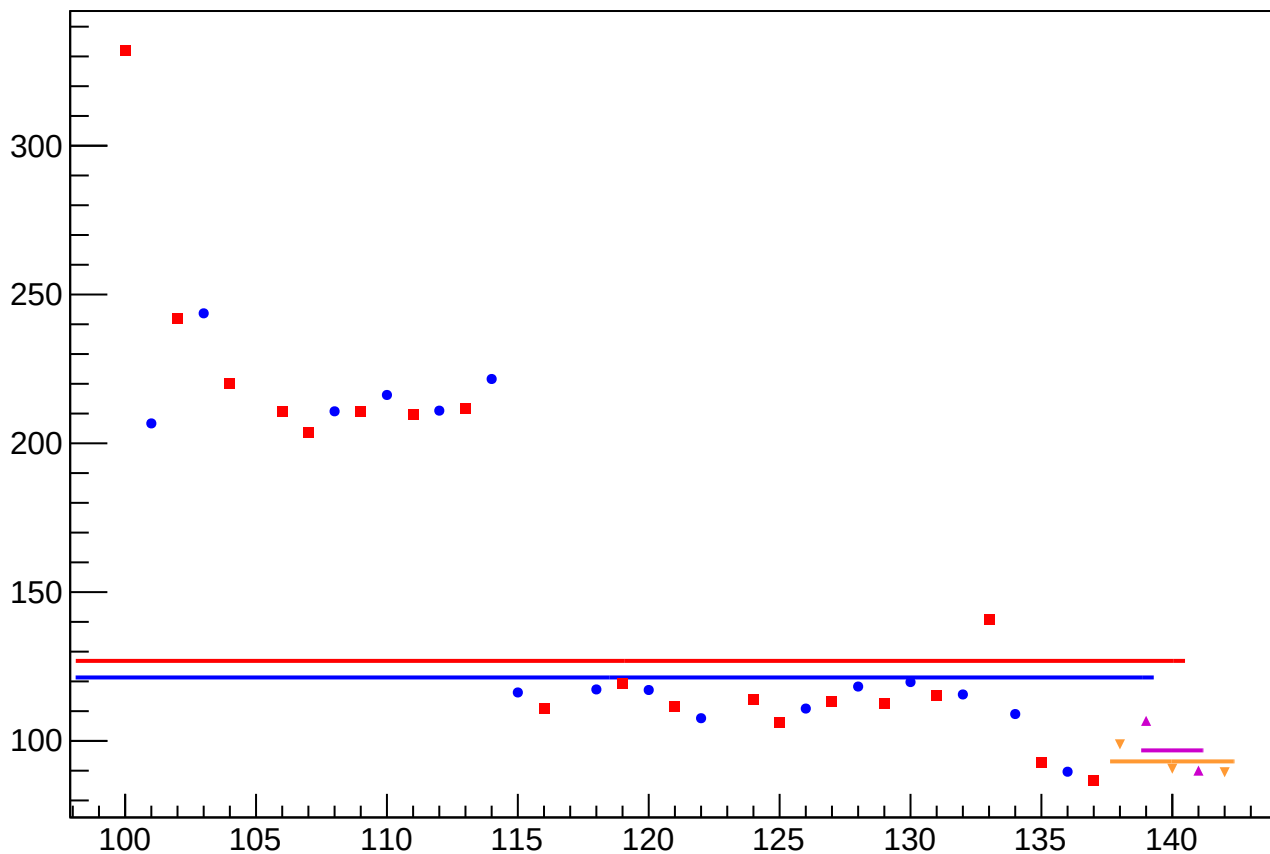
Right: 85.252 $\pm$ 34.265 χ^2 /NDF: 29.7/34

In: 117.133 $\pm$ 40.064 χ^2 /NDF: 13.8/17

Out: 76.831 $\pm$ 39.371 χ^2 /NDF: 19.1/21

All: 96.630 $\pm$ 28.081 χ^2 /NDF: 33.4/39

eigen_cor_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 121.325+/-0.034 χ^2/NDF : 1286654.0/15

Left Out: 93.116+/-0.046 χ^2/NDF : 7802.6/2

Right Out: 126.895+/-0.035 χ^2/NDF : 1465478.6/18

Left In: 96.820+/-0.052 χ^2/NDF : 24583.8/1

Left: 94.737+/-0.035 χ^2/NDF : 35199.4/4

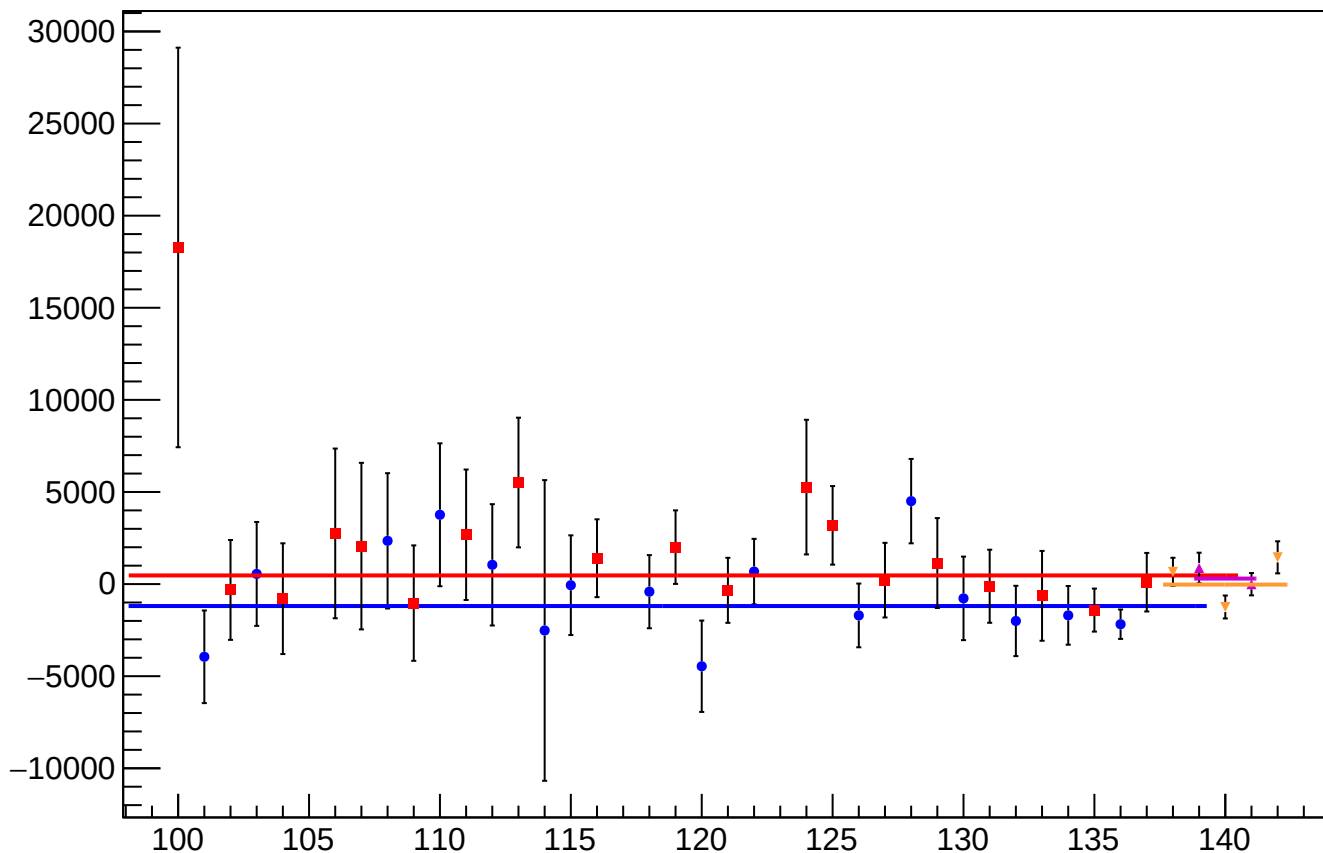
Right: 124.013+/-0.024 χ^2/NDF : 2765325.4/34

In: 114.158+/-0.028 χ^2/NDF : 1466074.5/17

Out: 114.632+/-0.028 χ^2/NDF : 1813718.3/21

All: 114.399+/-0.020 χ^2/NDF : 3279935.1/39

asym_sam_26_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1192.145 $\pm$ 478.909 χ^2 /NDF: 15.9/15

Left Out: -28.711 $\pm$ 422.157 χ^2 /NDF: 7.5/2

Right Out: 469.736 $\pm$ 522.203 χ^2 /NDF: 13.4/18

Left In: 298.930 $\pm$ 489.282 χ^2 /NDF: 0.7/1

Left: 111.110 $\pm$ 319.629 χ^2 /NDF: 8.5/4

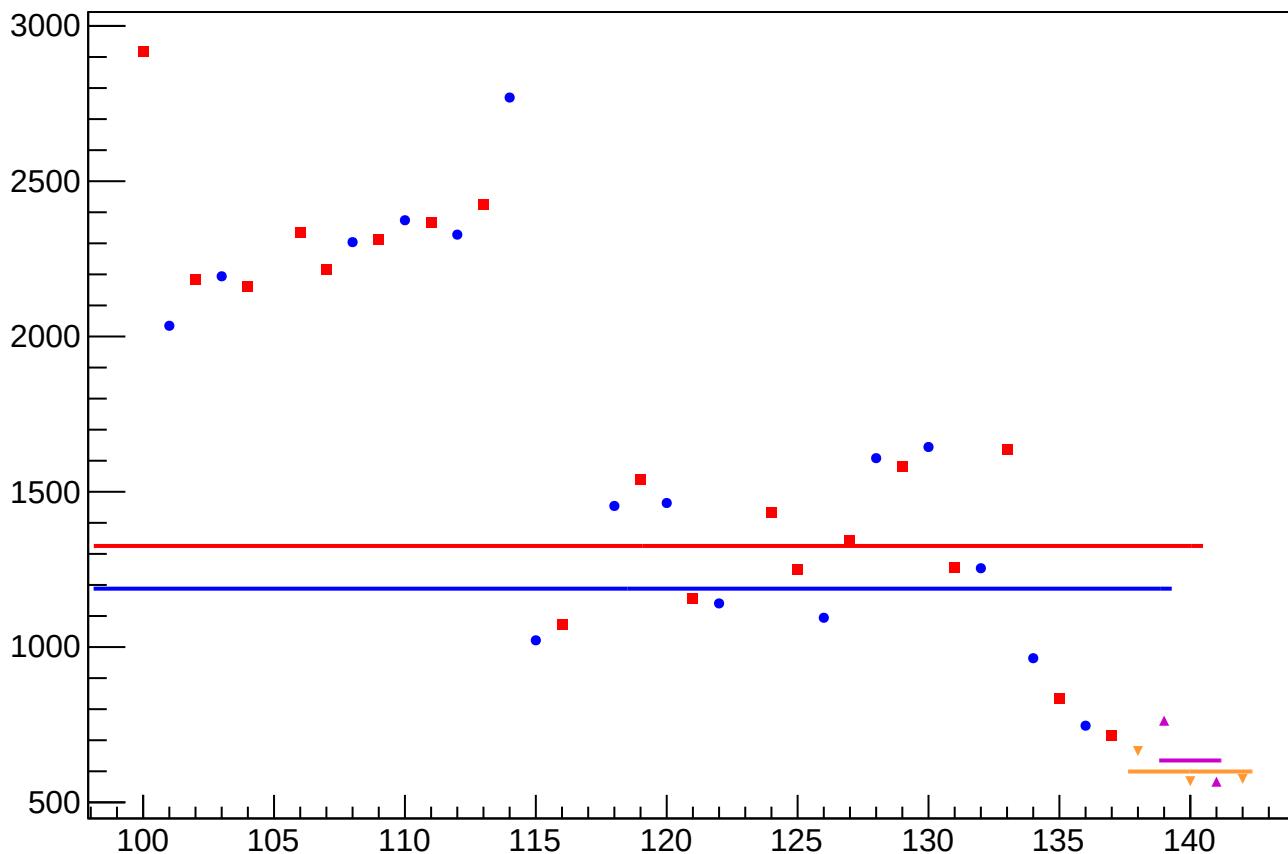
Right: -432.941 $\pm$ 352.955 χ^2 /NDF: 34.8/34

In: -462.581 $\pm$ 342.248 χ^2 /NDF: 21.4/17

Out: 168.293 $\pm$ 328.297 χ^2 /NDF: 21.4/21

All: -134.024 $\pm$ 236.920 χ^2 /NDF: 44.6/39

asym_sam_26_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1188.069+/-0.339 χ^2/NDF : 2044666.3/15

Left Out: 599.282+/-0.299 χ^2/NDF : 21377.3/2

Right Out: 1325.564+/-0.369 χ^2/NDF : 1920986.7/18

Left In: 634.812+/-0.346 χ^2/NDF : 73042.9/1

Left: 614.444+/-0.226 χ^2/NDF : 100466.1/4

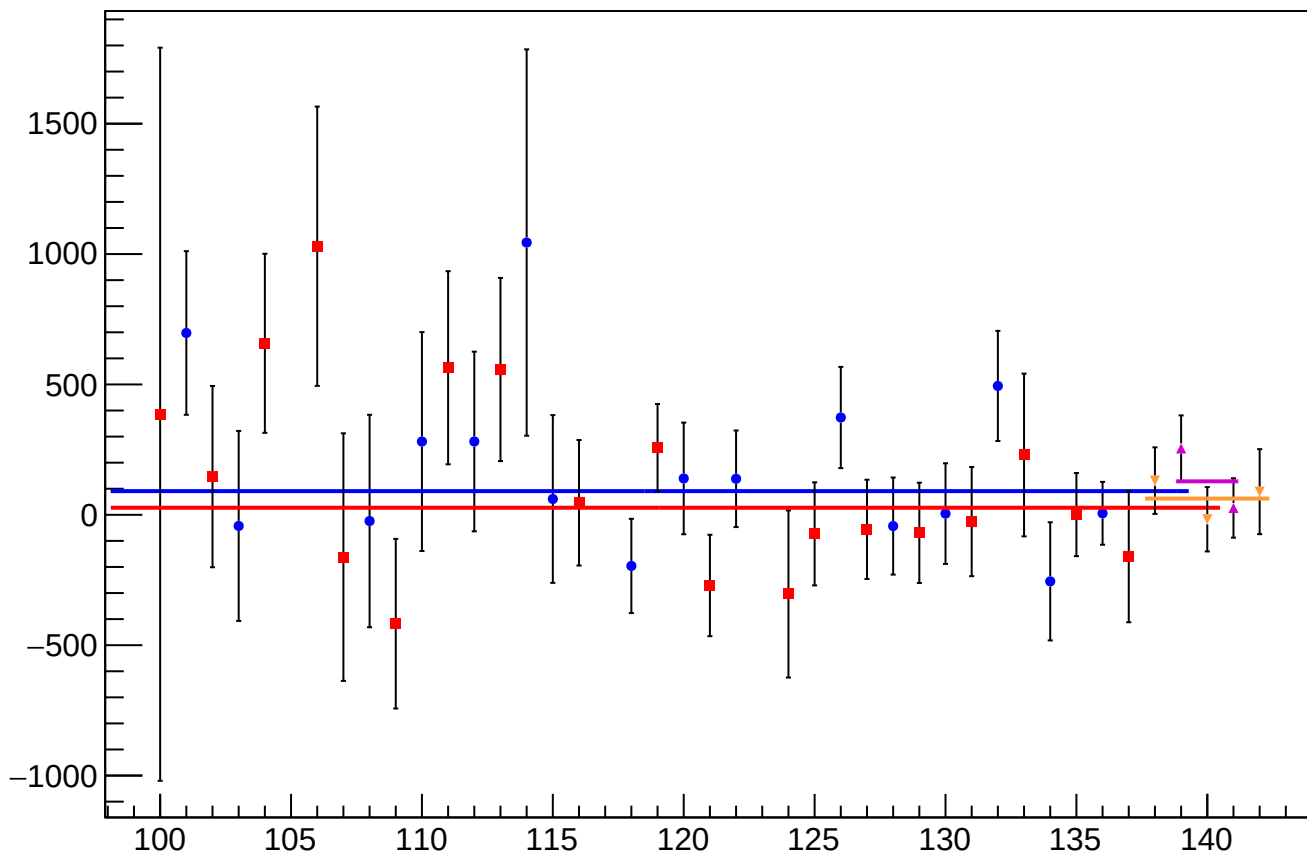
Right: 1250.882+/-0.250 χ^2/NDF : 4040963.9/34

In: 917.368+/-0.242 χ^2/NDF : 3423706.5/17

Out: 886.334+/-0.232 χ^2/NDF : 4282003.7/21

All: 901.205+/-0.168 χ^2/NDF : 7714274.4/39

dit_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 90.908 $\pm$ 55.565 χ^2 /NDF: 18.1/15

Left Out: 62.395 $\pm$ 77.919 χ^2 /NDF:0.7/2

Right Out: 27.170 $\pm$ 57.015 χ^2 /NDF: 20.6/18

Left In: 128.445 $\pm$ 84.681 χ^2 /NDF:1.8/1

Left: 92.678 $\pm$ 57.339 χ^2 /NDF: 2.9/4

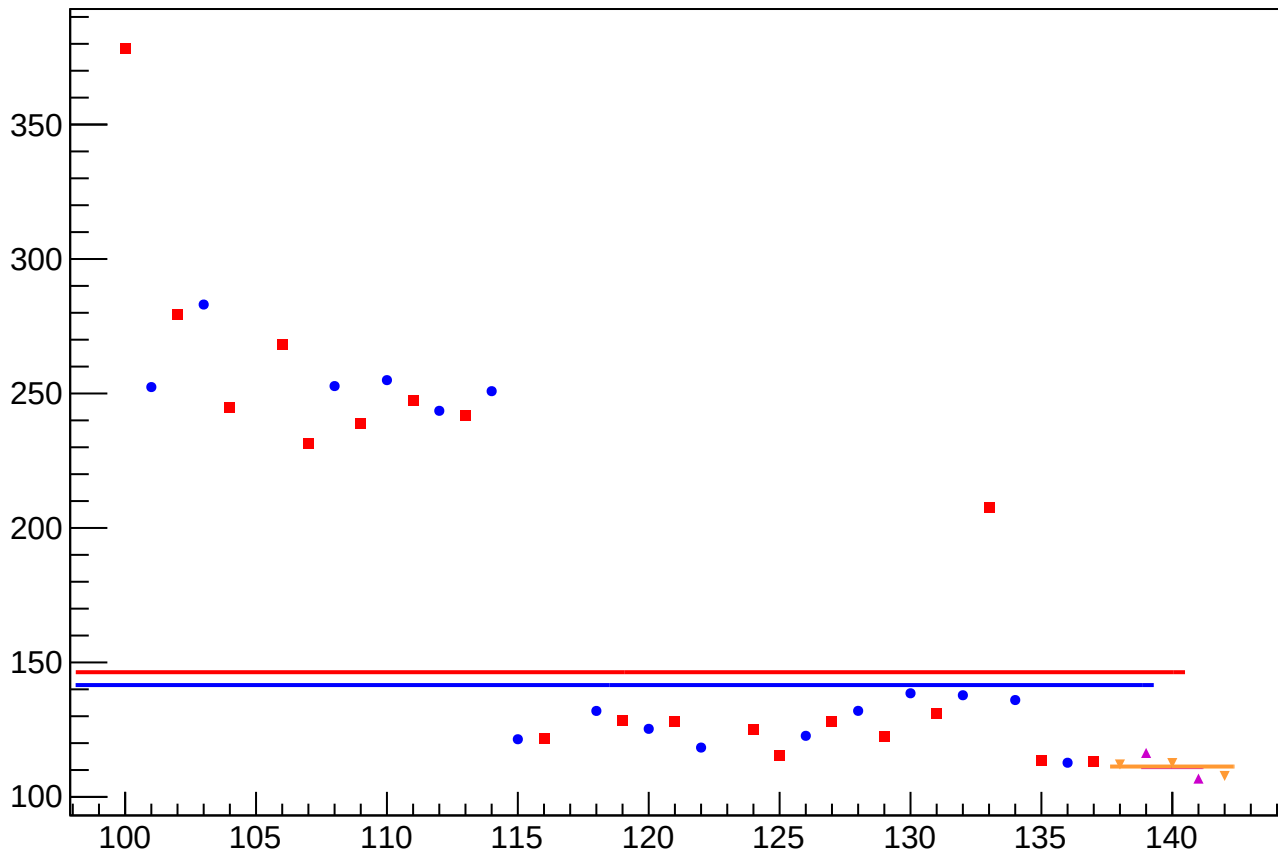
Right: 59.860 $\pm$ 39.793 χ^2 /NDF: 39.3/34

In: 102.205 $\pm$ 46.456 χ^2 /NDF:20.0/17

Out: 39.453 $\pm$ 46.013 χ^2 /NDF:21.4/21

All: 70.528 $\pm$ 32.692 χ^2 /NDF: 42.3/39

dit_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 141.586 $\pm$ 0.039 χ^2 /NDF: 1262366.8/15

Left Out: 111.292 $\pm$ 0.055 χ^2 /NDF:1213.1/2

Right Out: 146.368 $\pm$ 0.040 χ^2 /NDF: 1513656.0/18

Left In: 111.084 $\pm$ 0.060 χ^2 /NDF:6273.3/1

Left: 111.196 $\pm$ 0.041 χ^2 /NDF: 7493.0/4

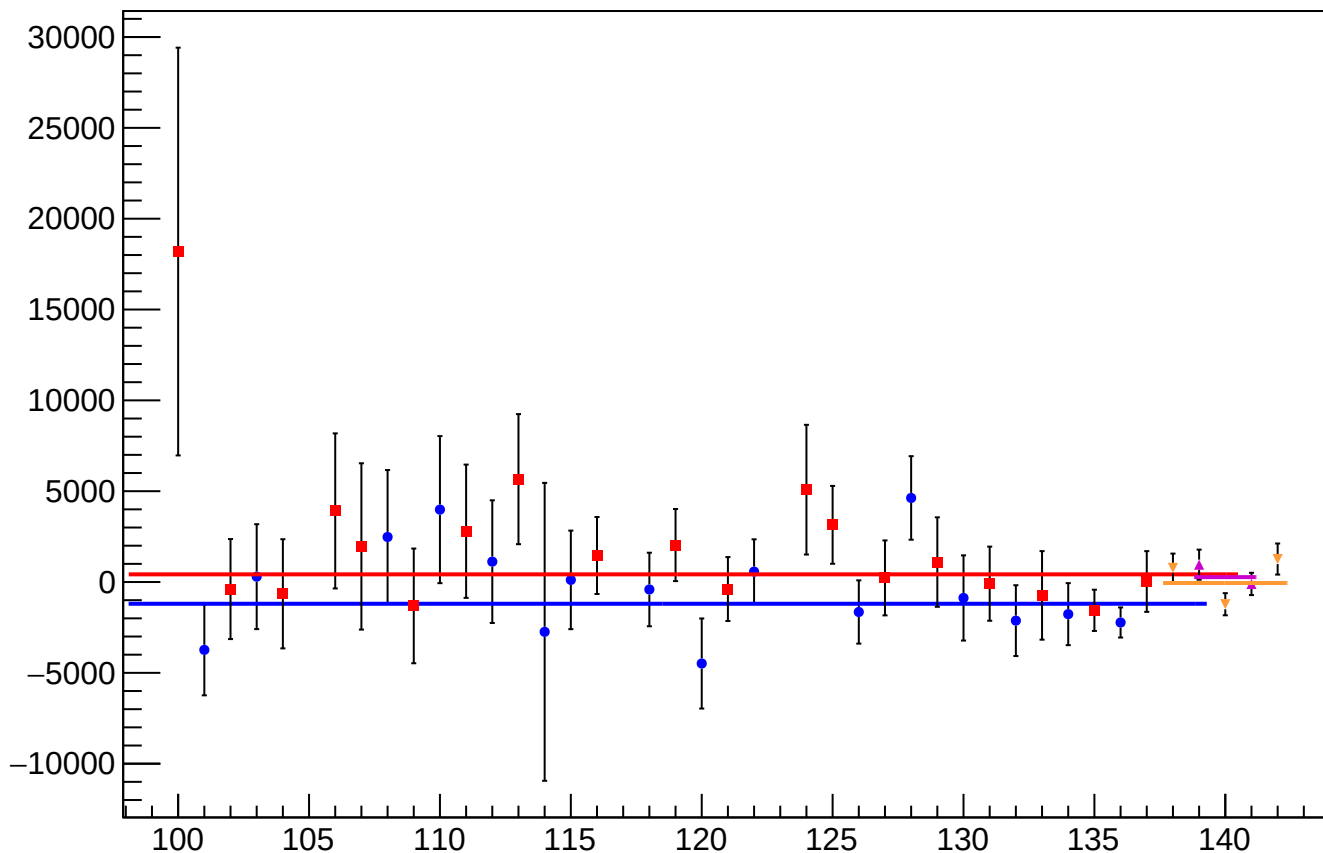
Right: 143.916 $\pm$ 0.028 χ^2 /NDF: 2783239.3/34

In: 132.406 $\pm$ 0.033 χ^2 /NDF:1450035.7/17

Out: 134.137 $\pm$ 0.033 χ^2 /NDF:1778841.2/21

All: 133.280 $\pm$ 0.023 χ^2 /NDF: 3230278.2/39

asym_sam_26_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1196.663 $\pm$ 491.384 χ^2 /NDF: 16.0/15

Left Out: -53.666 $\pm$ 419.552 χ^2 /NDF: 7.2/2

Right Out: 422.161 $\pm$ 523.834 χ^2 /NDF: 14.3/18

Left In: 269.417 $\pm$ 492.754 χ^2 /NDF: 1.1/1

Left: 82.118 $\pm$ 319.446 χ^2 /NDF: 8.5/4

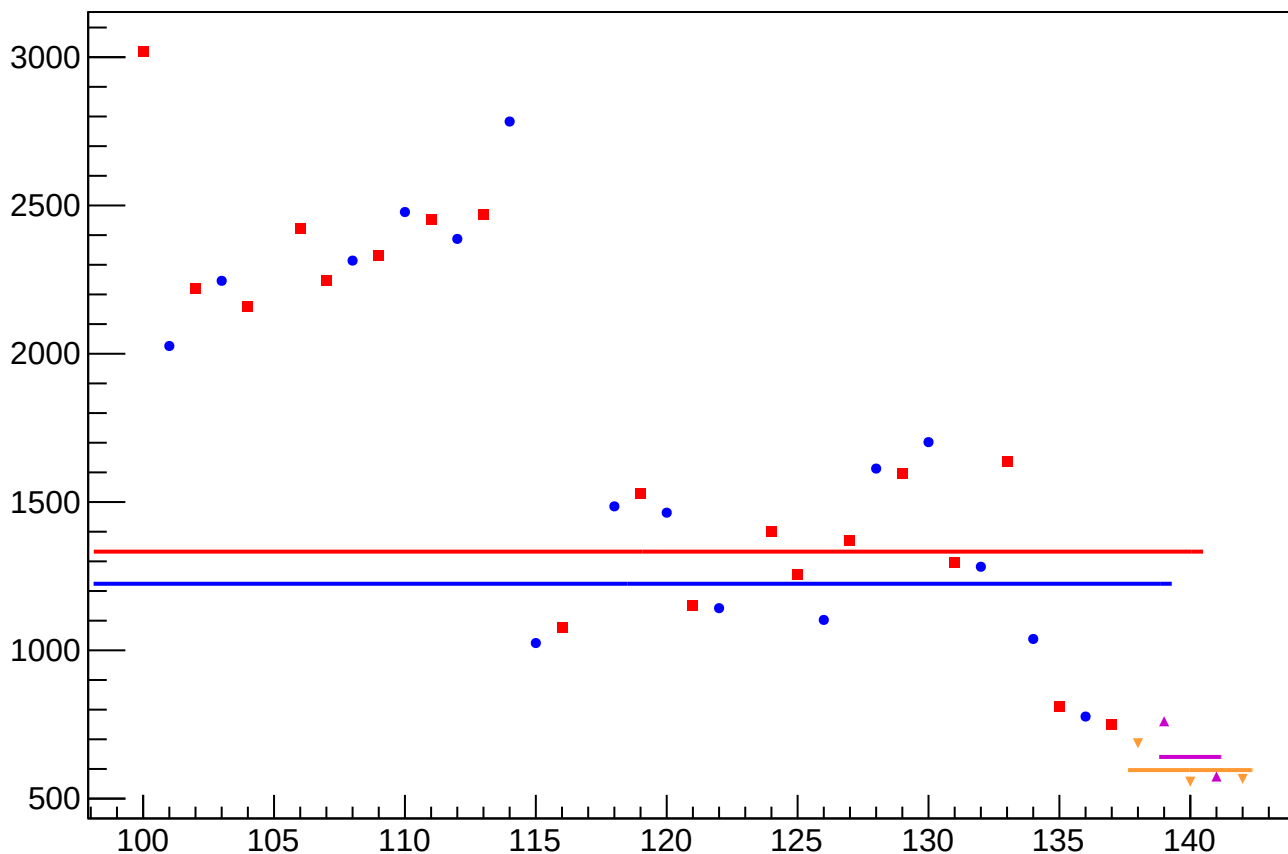
Right: -438.942 $\pm$ 358.384 χ^2 /NDF: 35.3/34

In: -465.665 $\pm$ 347.944 χ^2 /NDF: 21.5/17

Out: 132.285 $\pm$ 327.467 χ^2 /NDF: 22.0/21

All: -148.578 $\pm$ 238.465 χ^2 /NDF: 45.0/39

asym_sam_26_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1224.470+/-0.347 χ^2/NDF : 1959362.3/15

Left Out: 596.234+/-0.297 χ^2/NDF : 37083.3/2

Right Out: 1332.785+/-0.370 χ^2/NDF : 1994811.5/18

Left In: 640.555+/-0.348 χ^2/NDF : 65340.8/1

Left: 614.861+/-0.226 χ^2/NDF : 111804.3/4

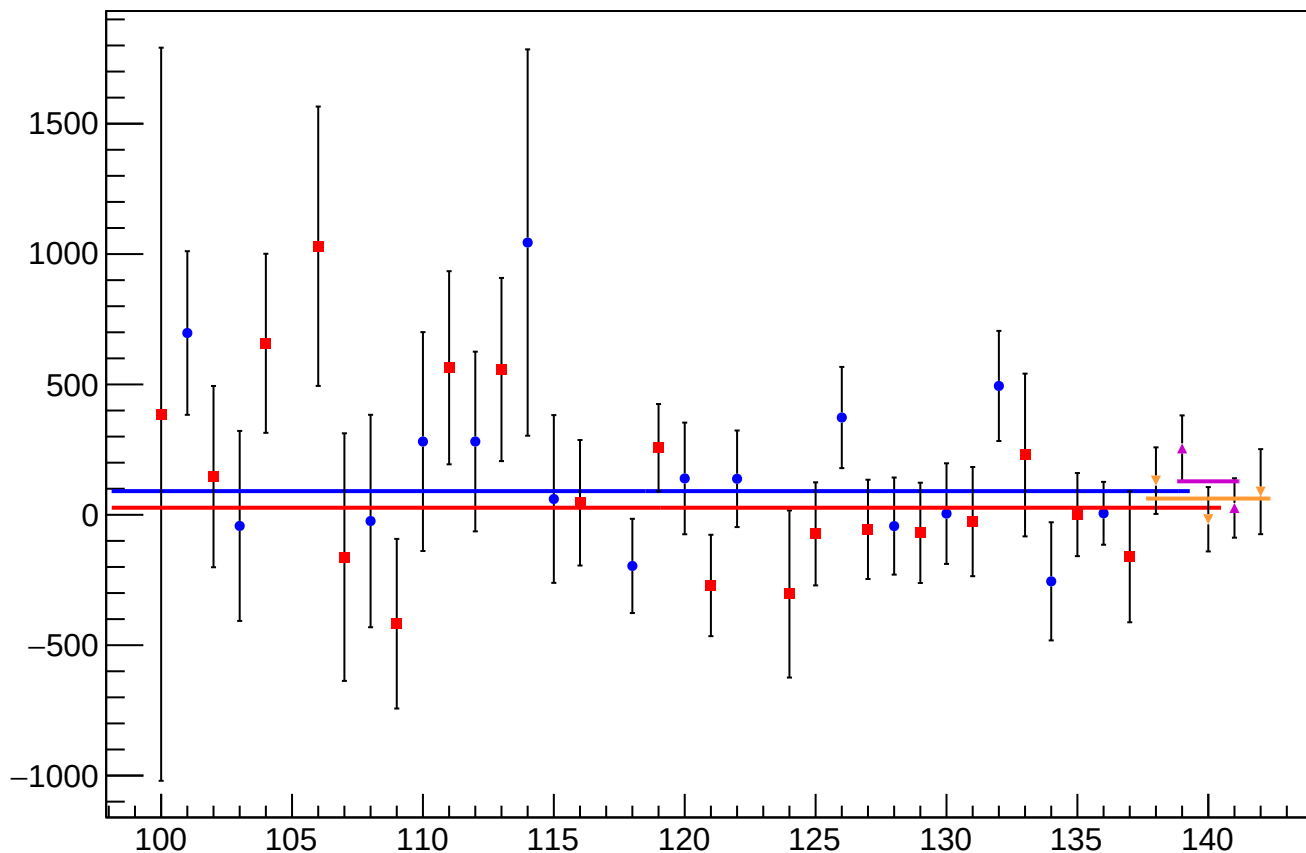
Right: 1275.169+/-0.253 χ^2/NDF : 3999659.2/34

In: 933.326+/-0.246 χ^2/NDF : 3432844.2/17

Out: 884.074+/-0.232 χ^2/NDF : 4440757.5/21

All: 907.208+/-0.169 χ^2/NDF : 7894852.3/39

eigen_dit_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 90.910 $\pm$ 55.564 χ^2 /NDF: 18.1/15

Left Out: 62.392 $\pm$ 77.919 χ^2 /NDF:0.7/2

Right Out: 27.170 $\pm$ 57.015 χ^2 /NDF: 20.6/18

Left In: 128.444 $\pm$ 84.681 χ^2 /NDF:1.8/1

Left: 92.676 $\pm$ 57.339 χ^2 /NDF: 2.9/4

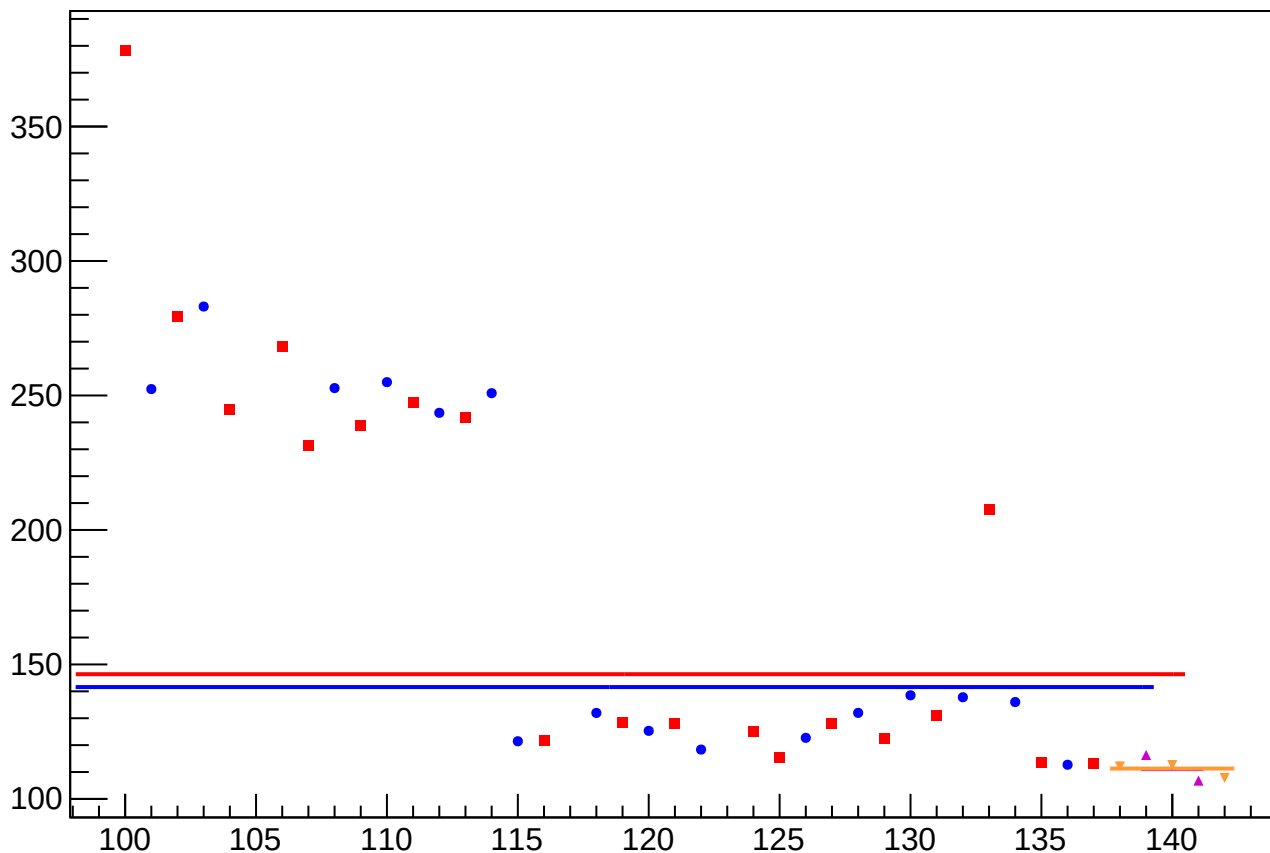
Right: 59.862 $\pm$ 39.793 χ^2 /NDF: 39.3/34

In: 102.207 $\pm$ 46.456 χ^2 /NDF:20.0/17

Out: 39.453 $\pm$ 46.013 χ^2 /NDF:21.4/21

All: 70.529 $\pm$ 32.692 χ^2 /NDF: 42.3/39

eigen_dit_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 141.586 $\pm$ 0.039 χ^2/NDF : 1262350.2/15

Left Out: 111.292 $\pm$ 0.055 χ^2/NDF :1213.3/2

Right Out: 146.368 $\pm$ 0.040 χ^2/NDF : 1513641.5/18

Left In: 111.084 $\pm$ 0.060 χ^2/NDF :6272.8/1

Left: 111.197 $\pm$ 0.041 χ^2/NDF : 7492.6/4

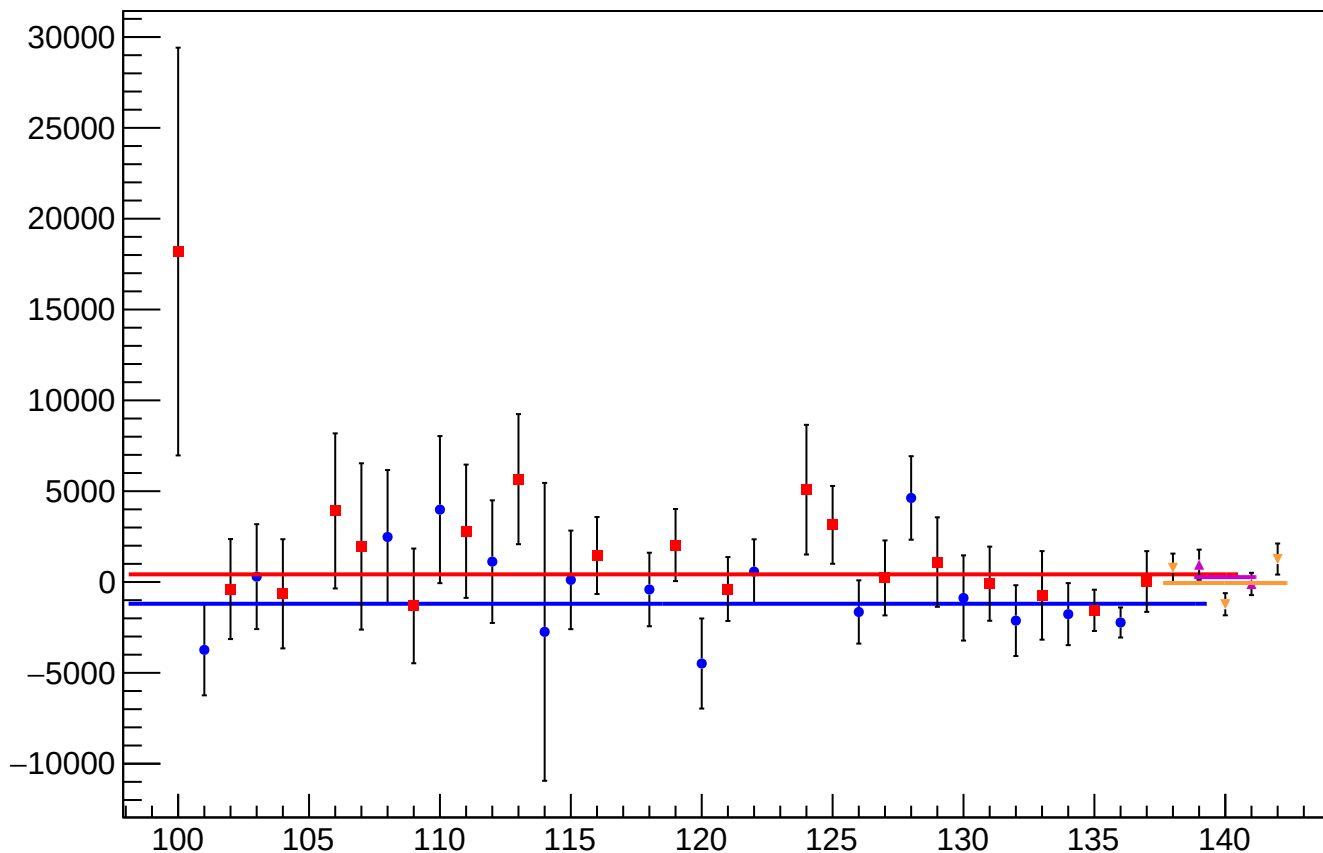
Right: 143.915 $\pm$ 0.028 χ^2/NDF : 2783209.2/34

In: 132.406 $\pm$ 0.033 χ^2/NDF :1450004.2/17

Out: 134.136 $\pm$ 0.033 χ^2/NDF :1778823.0/21

All: 133.279 $\pm$ 0.023 χ^2/NDF : 3230228.5/39

asym_sam_26_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1196.659 $\pm$ 491.383 χ^2 /NDF: 16.0/15

Left Out: -53.666 $\pm$ 419.552 χ^2 /NDF: 7.2/2

Right Out: 422.163 $\pm$ 523.833 χ^2 /NDF: 14.3/18

Left In: 269.419 $\pm$ 492.754 χ^2 /NDF: 1.1/1

Left: 82.119 $\pm$ 319.446 χ^2 /NDF: 8.5/4

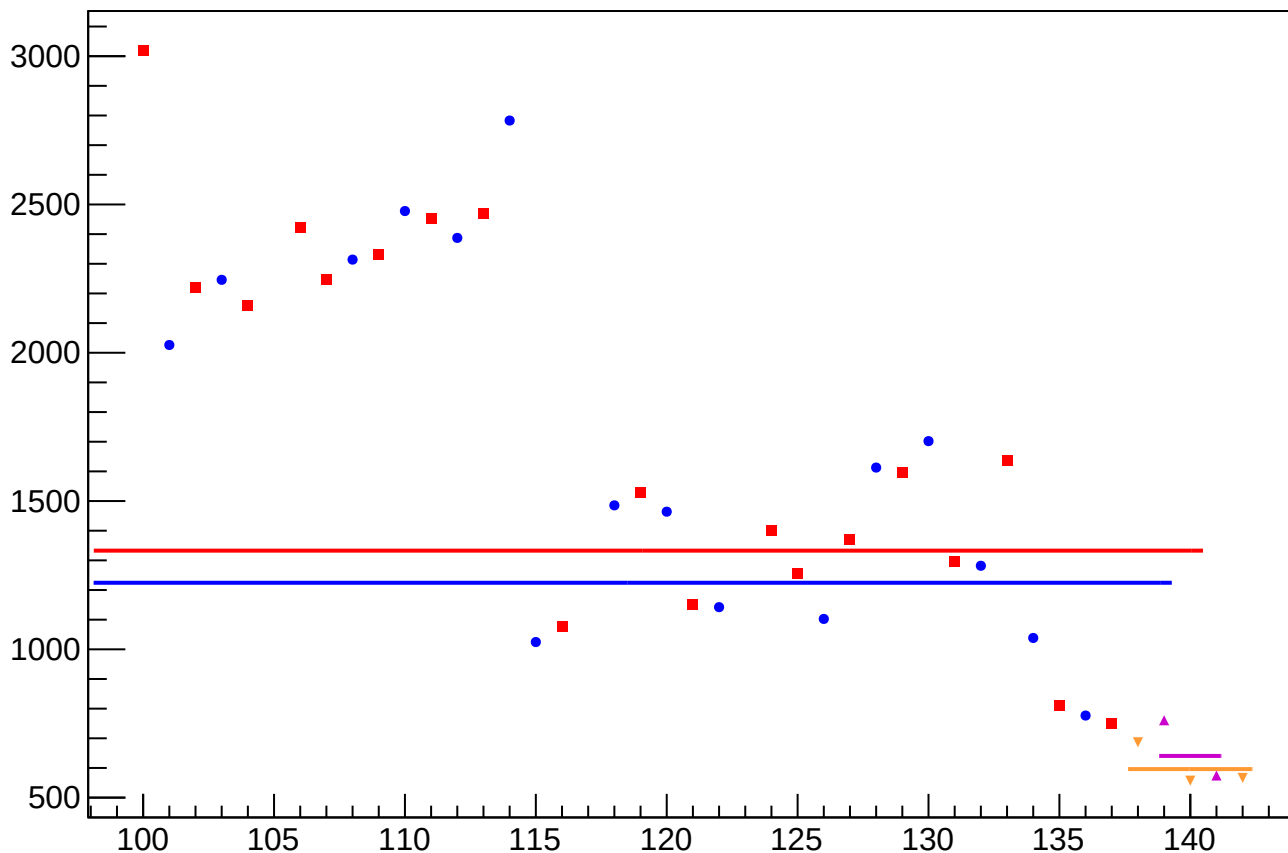
Right: -438.939 $\pm$ 358.384 χ^2 /NDF: 35.3/34

In: -465.662 $\pm$ 347.944 χ^2 /NDF: 21.5/17

Out: 132.286 $\pm$ 327.467 χ^2 /NDF: 22.0/21

All: -148.576 $\pm$ 238.465 χ^2 /NDF: 45.0/39

asym_sam_26_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1224.470+/-0.347 χ^2/NDF : 1959341.1/15

Left Out: 596.234+/-0.297 χ^2/NDF : 37080.4/2

Right Out: 1332.784+/-0.370 χ^2/NDF : 1994794.3/18

Left In: 640.555+/-0.348 χ^2/NDF : 65337.2/1

Left: 614.861+/-0.226 χ^2/NDF : 111797.6/4

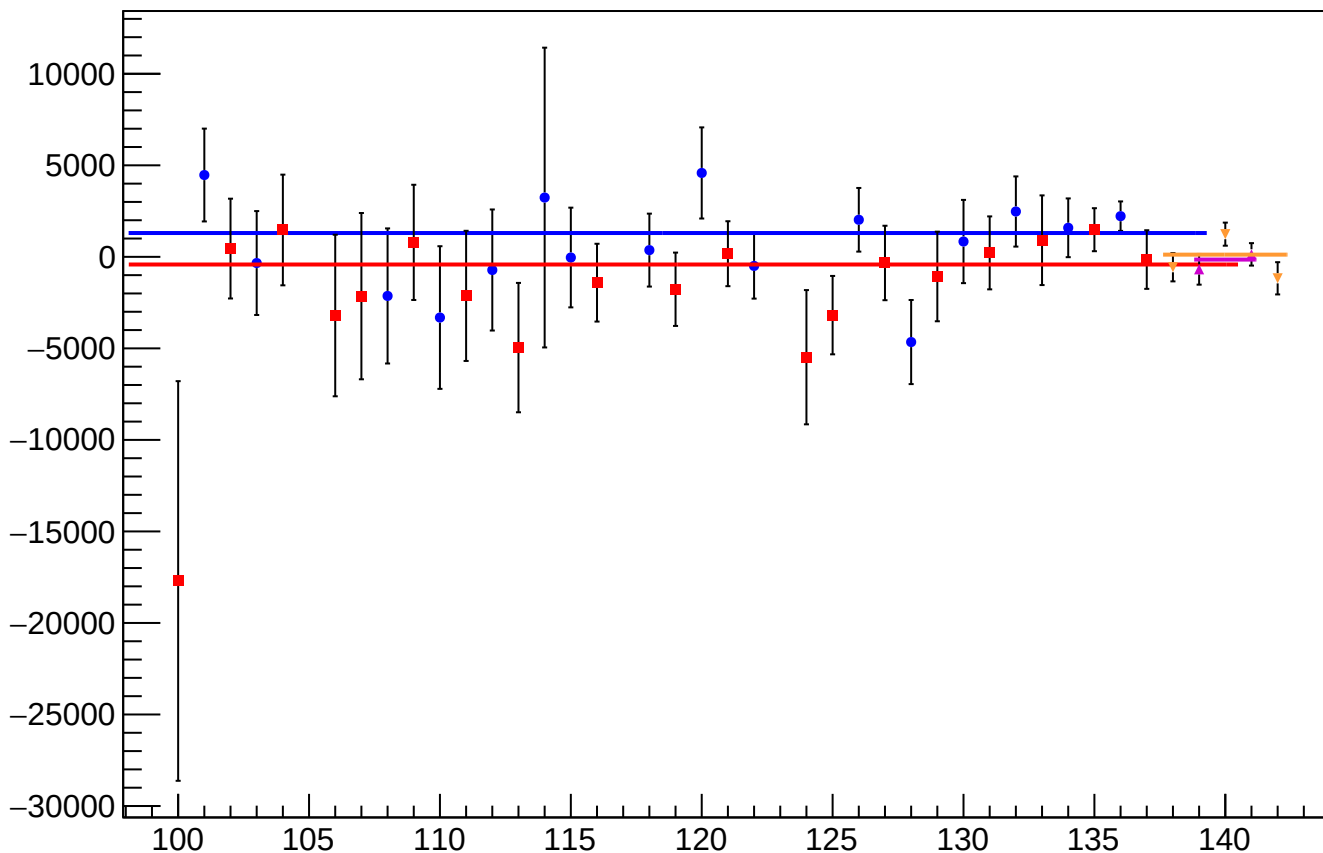
Right: 1275.168+/-0.253 χ^2/NDF : 3999620.7/34

In: 933.326+/-0.246 χ^2/NDF : 3432819.9/17

Out: 884.074+/-0.232 χ^2/NDF : 4440732.9/21

All: 907.208+/-0.169 χ^2/NDF : 7894802.9/39

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1301.623+/-481.959 χ^2/NDF : 16.5/15

Left Out: 120.632+/-427.261 χ^2/NDF : 6.1/2

Right Out: -418.283+/-524.515 χ^2/NDF : 13.0/18

Left In: -149.066+/-494.983 χ^2/NDF : 0.6/1

Left: 5.481+/-323.434 χ^2/NDF : 6.9/4

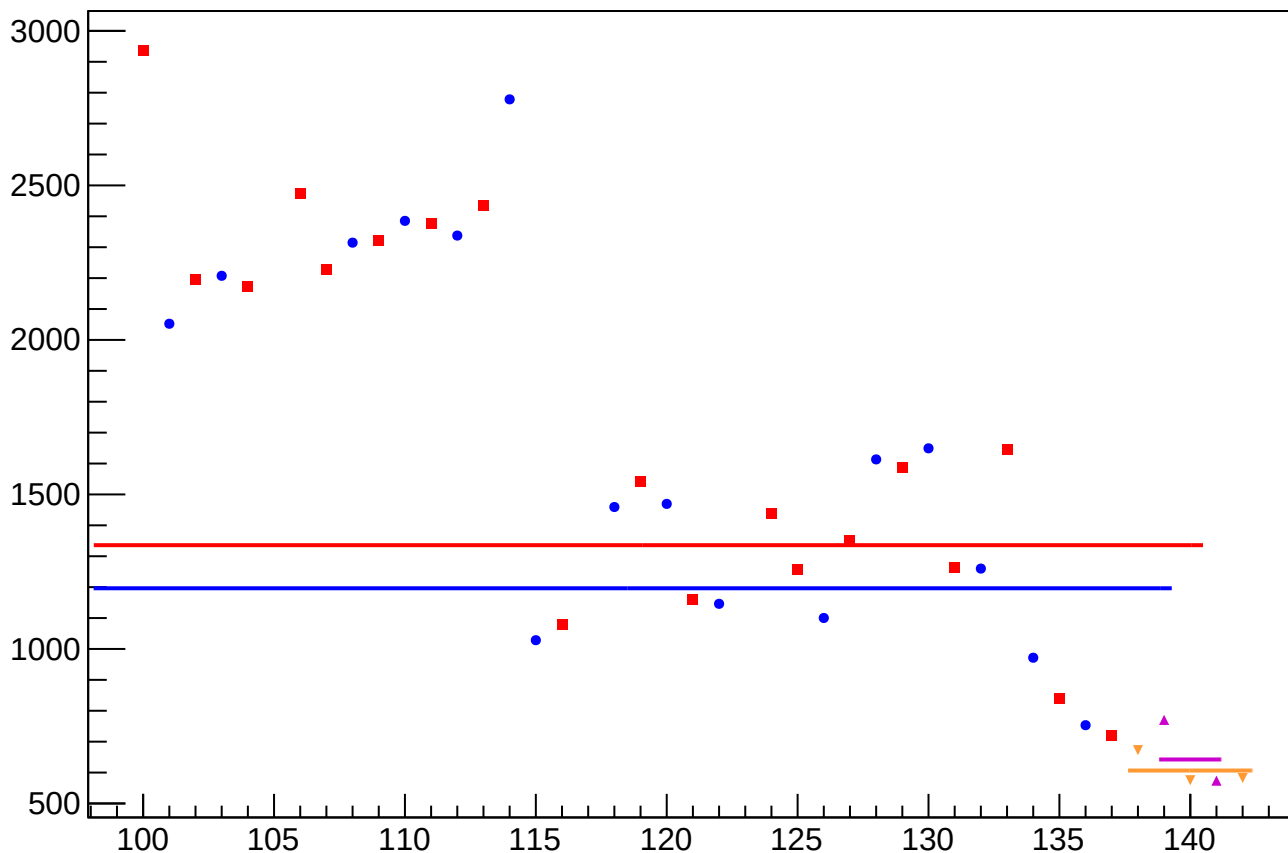
Right: 514.263+/-354.889 χ^2/NDF : 35.3/34

In: 595.616+/-345.309 χ^2/NDF : 21.5/17

Out: -94.327+/-331.265 χ^2/NDF : 19.8/21

All: 236.329+/-239.051 χ^2/NDF : 43.3/39

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1196.353+/-0.341 χ^2/NDF : 2031710.2/15

Left Out: 606.601+/-0.302 χ^2/NDF : 20998.3/2

Right Out: 1335.809+/-0.371 χ^2/NDF : 1951472.1/18

Left In: 642.354+/-0.350 χ^2/NDF : 71693.8/1

Left: 621.866+/-0.229 χ^2/NDF : 98671.4/4

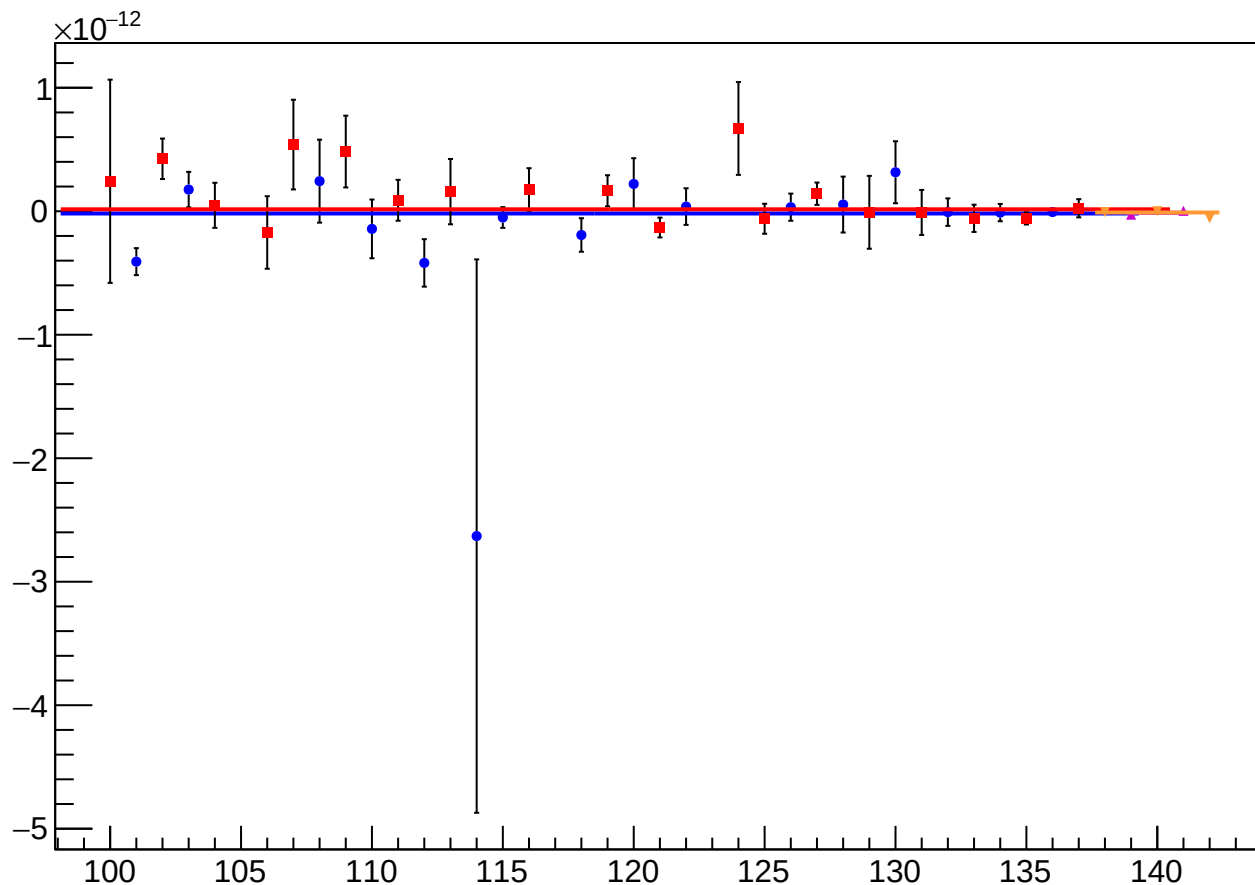
Right: 1260.195+/-0.251 χ^2/NDF : 4059839.9/34

In: 926.738+/-0.244 χ^2/NDF : 3389470.3/17

Out: 897.463+/-0.234 χ^2/NDF : 4296178.8/21

All: 911.493+/-0.169 χ^2/NDF : 7693134.5/39

asym_sam_26_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 26.8/15

Left Out: -0.000+/-0.000 χ^2 /NDF:2.0/2

Right Out: 0.000+/-0.000 χ^2 /NDF: 25.6/18

Left In: -0.000+/-0.000 χ^2 /NDF:0.7/1

Left: -0.000+/-0.000 χ^2 /NDF: 2.7/4

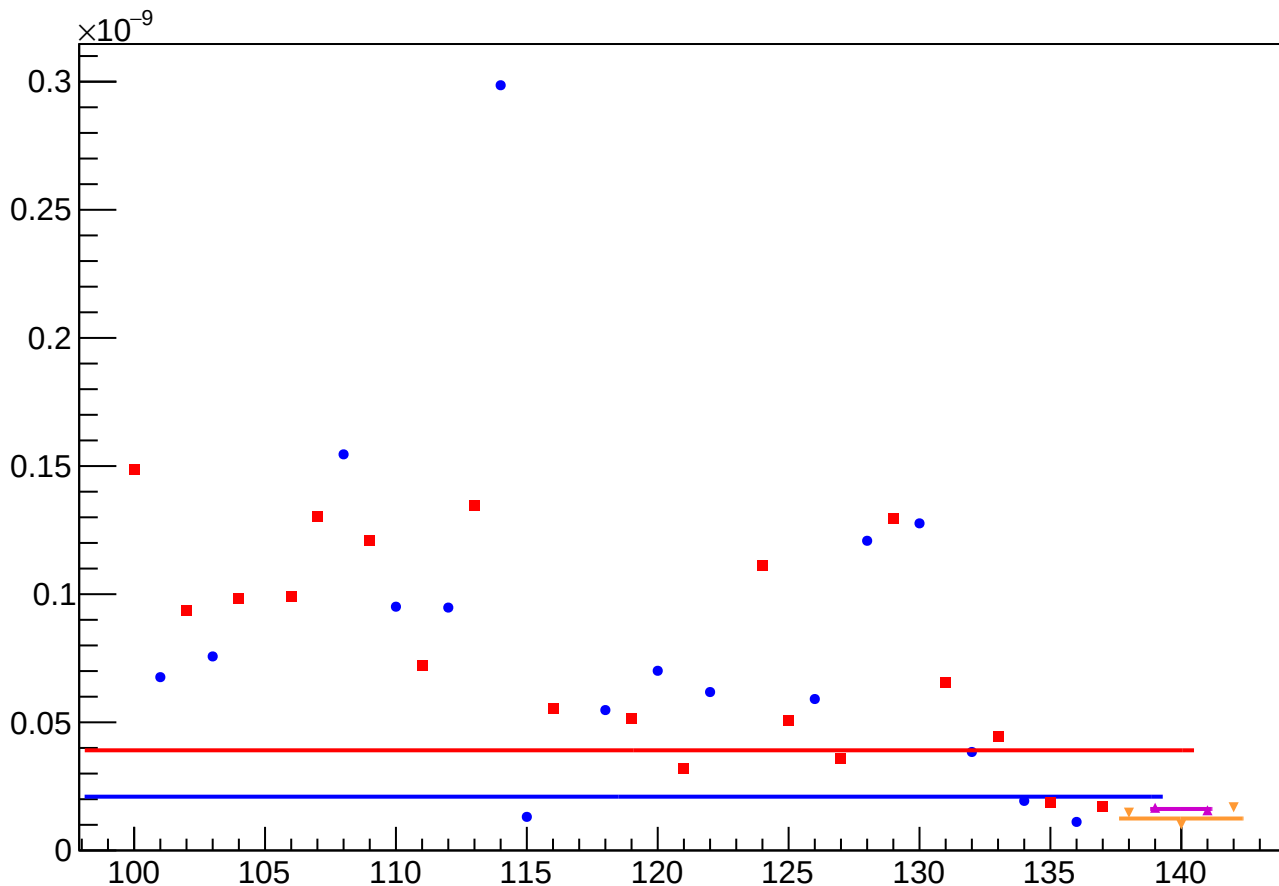
Right: -0.000+/-0.000 χ^2 /NDF: 53.5/34

In: -0.000+/-0.000 χ^2 /NDF:27.5/17

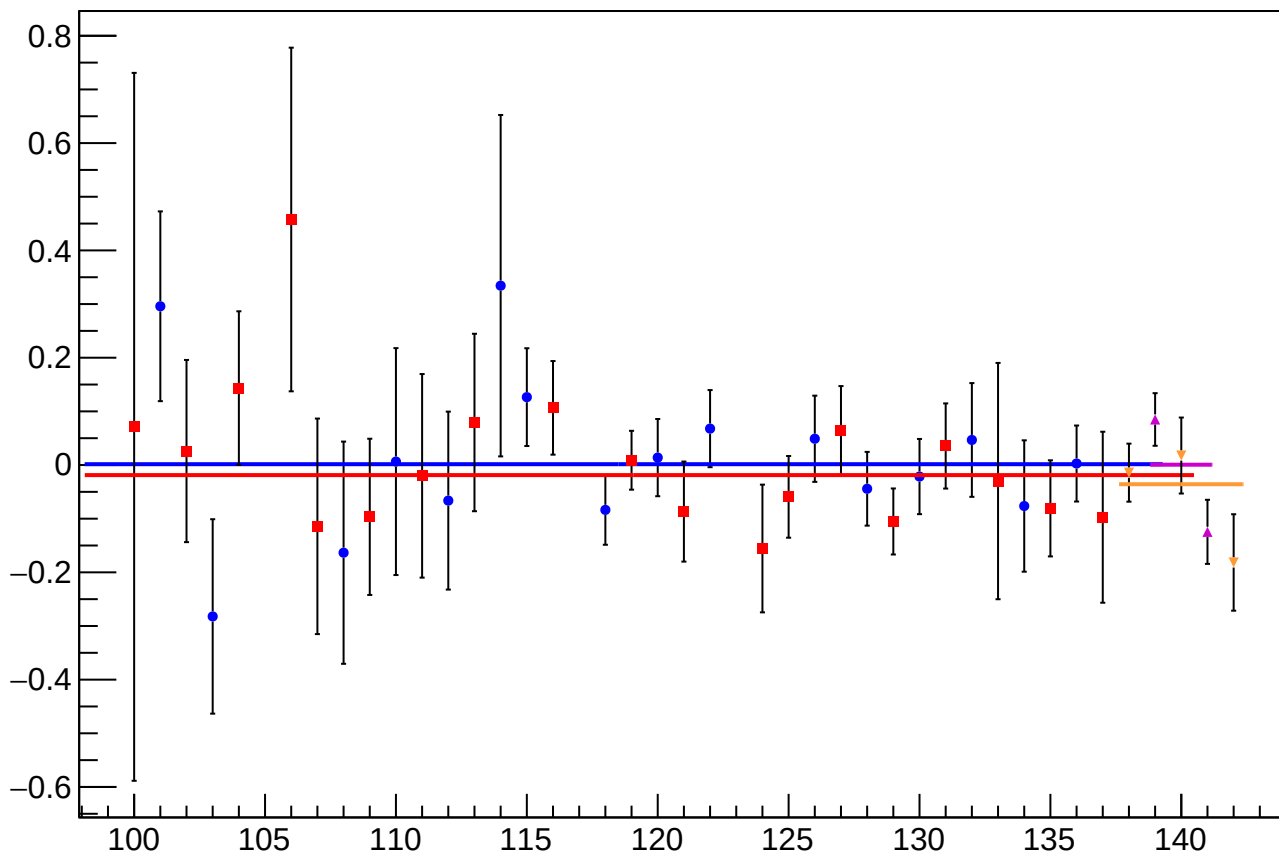
Out: -0.000+/-0.000 χ^2 /NDF:28.4/21

All: -0.000+/-0.000 χ^2 /NDF: 56.2/39

asym_sam_26_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



asym_sam_26_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.023 χ^2 /NDF: 13.1/15

Left Out: -0.036 $\pm$ 0.039 χ^2 /NDF:3.4/2

Right Out: -0.019 $\pm$ 0.024 χ^2 /NDF: 13.1/18

Left In: 0.001 $\pm$ 0.038 χ^2 /NDF:7.3/1

Left: -0.017 $\pm$ 0.027 χ^2 /NDF: 11.2/4

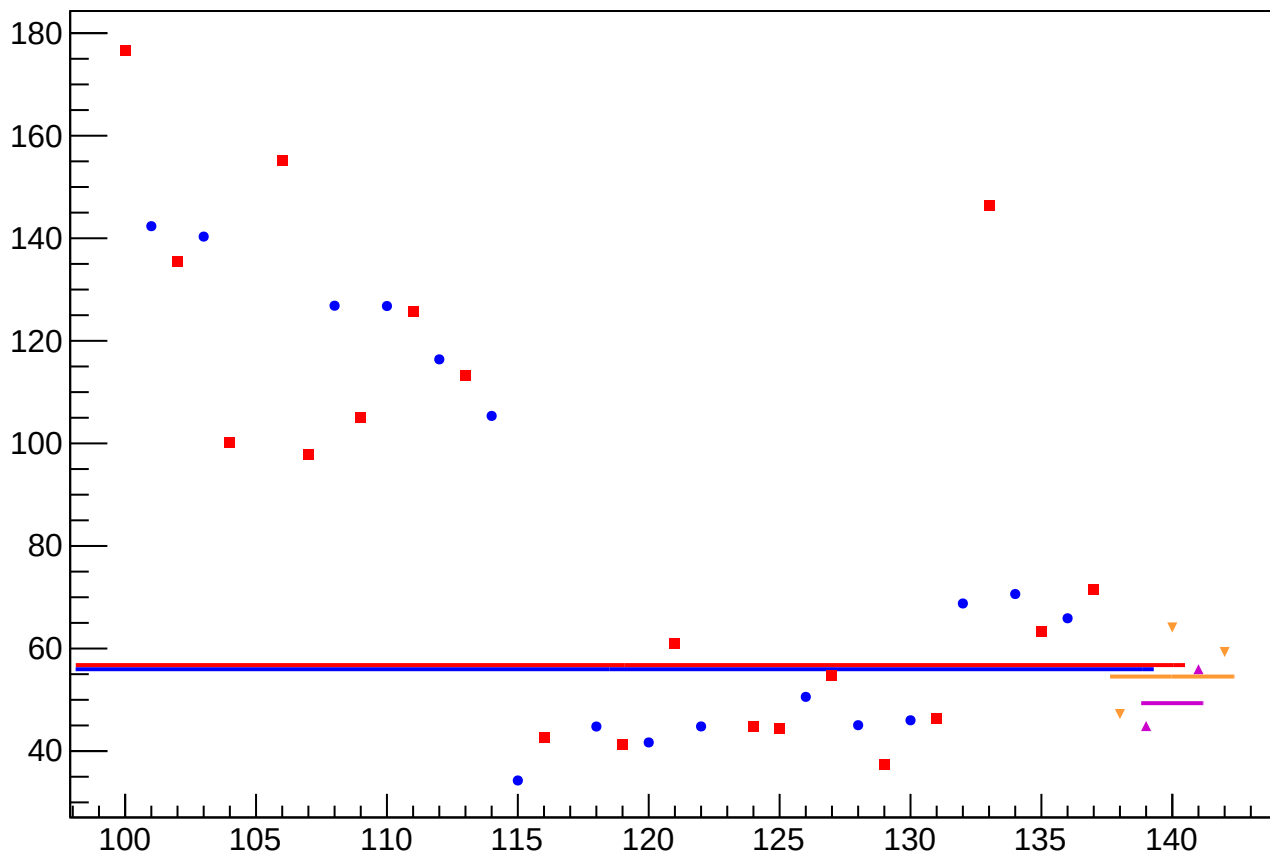
Right: -0.009 $\pm$ 0.017 χ^2 /NDF: 26.6/34

In: 0.001 $\pm$ 0.020 χ^2 /NDF:20.4/17

Out: -0.023 $\pm$ 0.020 χ^2 /NDF:16.6/21

All: -0.011 $\pm$ 0.014 χ^2 /NDF: 37.8/39

asym_sam_26_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 55.968+/-0.017 χ^2/NDF : 2179829.3/15

Left Out: 54.537+/-0.027 χ^2/NDF : 78750.1/2

Right Out: 56.770+/-0.017 χ^2/NDF : 2553223.5/18

Left In: 49.348+/-0.027 χ^2/NDF : 41051.7/1

Left: 51.884+/-0.019 χ^2/NDF : 138124.7/4

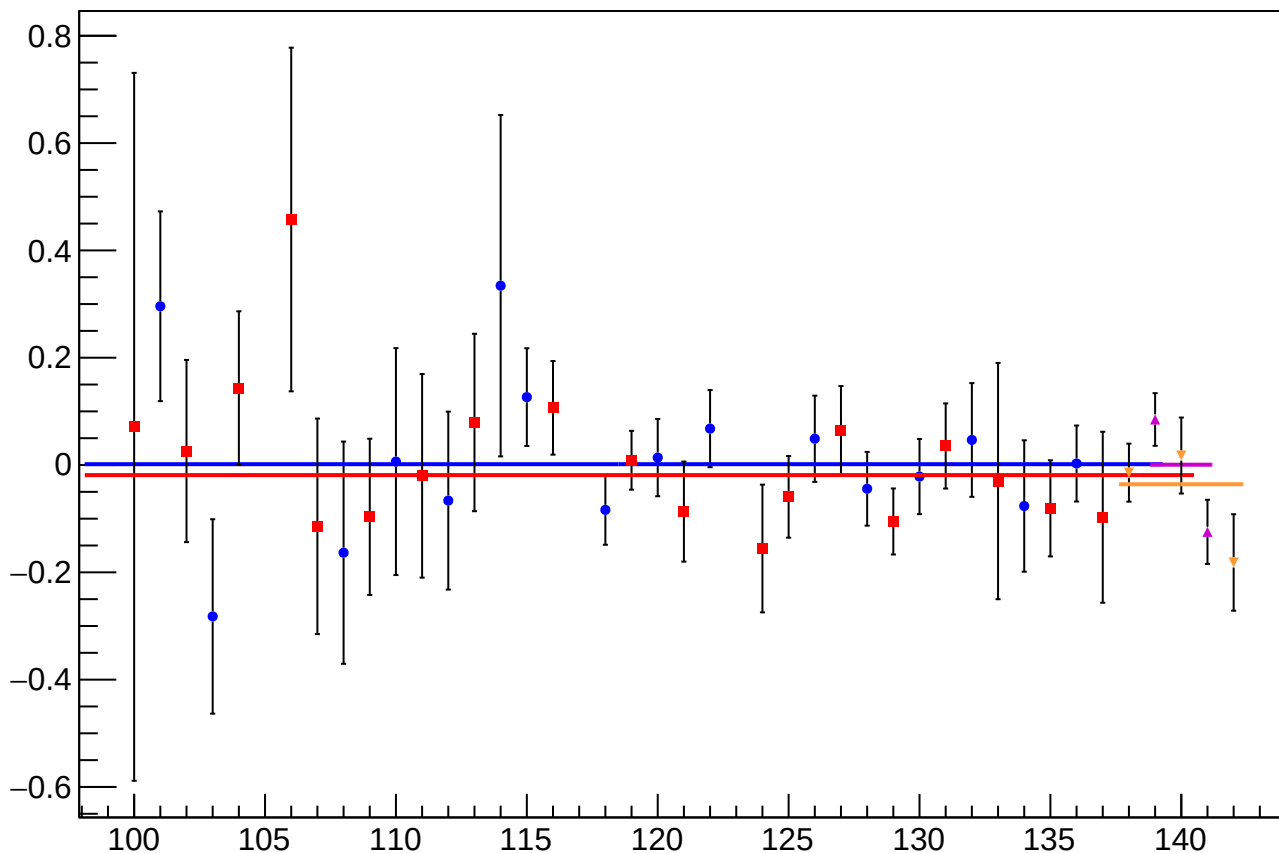
Right: 56.368+/-0.012 χ^2/NDF : 4734221.0/34

In: 54.139+/-0.014 χ^2/NDF : 2265048.8/17

Out: 56.170+/-0.014 χ^2/NDF : 2636823.0/21

All: 55.145+/-0.010 χ^2/NDF : 4912167.6/39

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 ± 0.023 $\chi^2/\text{NDF}: 13.1/15$

Left Out: -0.036 ± 0.039 $\chi^2/\text{NDF}: 3.4/2$

Right Out: -0.019 ± 0.024 $\chi^2/\text{NDF}: 13.1/18$

Left In: 0.001 ± 0.038 $\chi^2/\text{NDF}: 7.3/1$

Left: -0.017 ± 0.027 $\chi^2/\text{NDF}: 11.2/4$

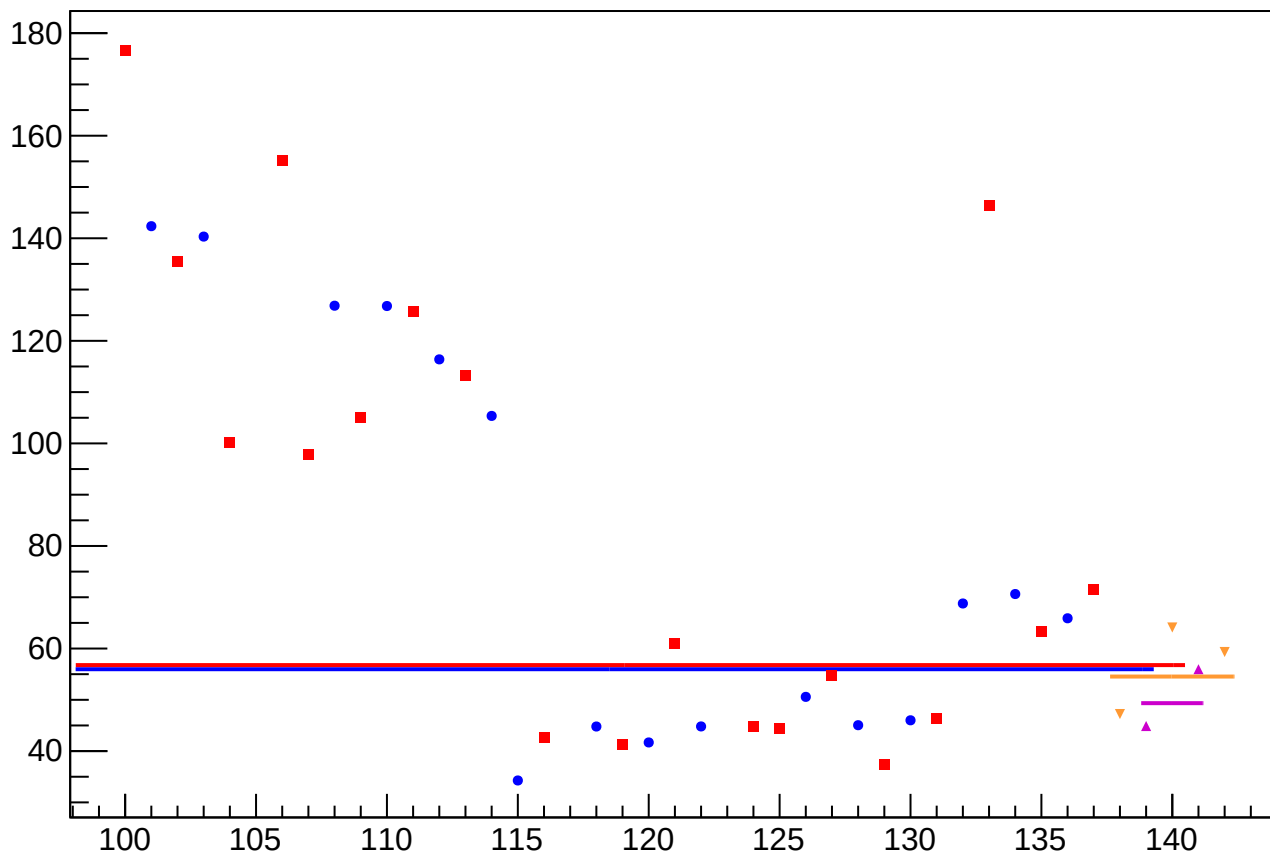
Right: -0.009 ± 0.017 $\chi^2/\text{NDF}: 26.6/34$

In: 0.001 ± 0.020 $\chi^2/\text{NDF}: 20.4/17$

Out: -0.023 ± 0.020 $\chi^2/\text{NDF}: 16.6/21$

All: -0.011 ± 0.014 $\chi^2/\text{NDF}: 37.8/39$

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 55.968+/-0.017 χ^2/NDF : 2179829.3/15

Left Out: 54.537+/-0.027 χ^2/NDF : 78750.1/2

Right Out: 56.770+/-0.017 χ^2/NDF : 2553223.5/18

Left In: 49.348+/-0.027 χ^2/NDF : 41051.7/1

Left: 51.884+/-0.019 χ^2/NDF : 138124.7/4

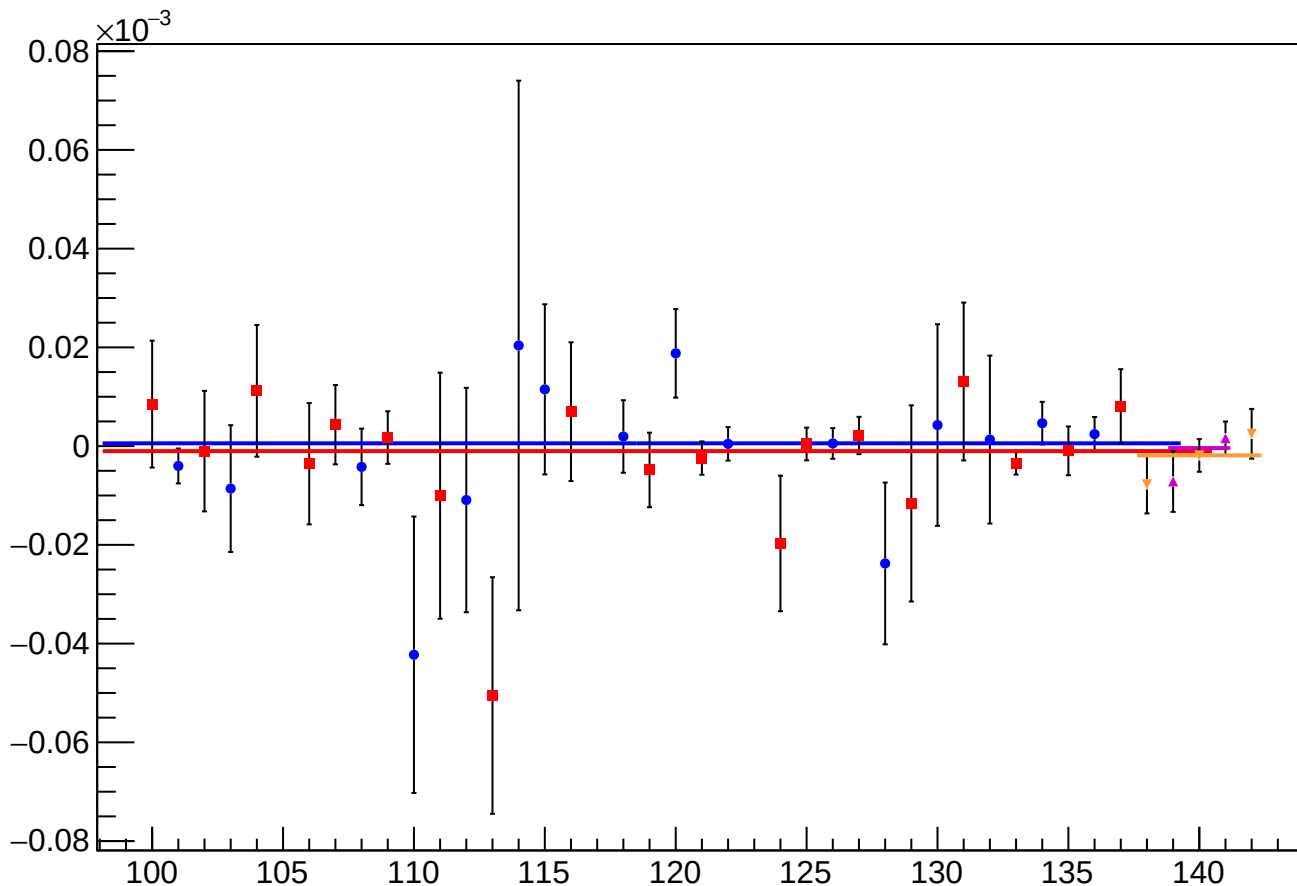
Right: 56.368+/-0.012 χ^2/NDF : 4734221.0/34

In: 54.139+/-0.014 χ^2/NDF : 2265048.8/17

Out: 56.170+/-0.014 χ^2/NDF : 2636823.0/21

All: 55.145+/-0.010 χ^2/NDF : 4912167.6/39

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 13.3/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 1.7/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 13.8/18

Left In: -0.000 ± 0.000 χ^2/NDF : 1.5/1

Left: -0.000 ± 0.000 χ^2/NDF : 3.4/4

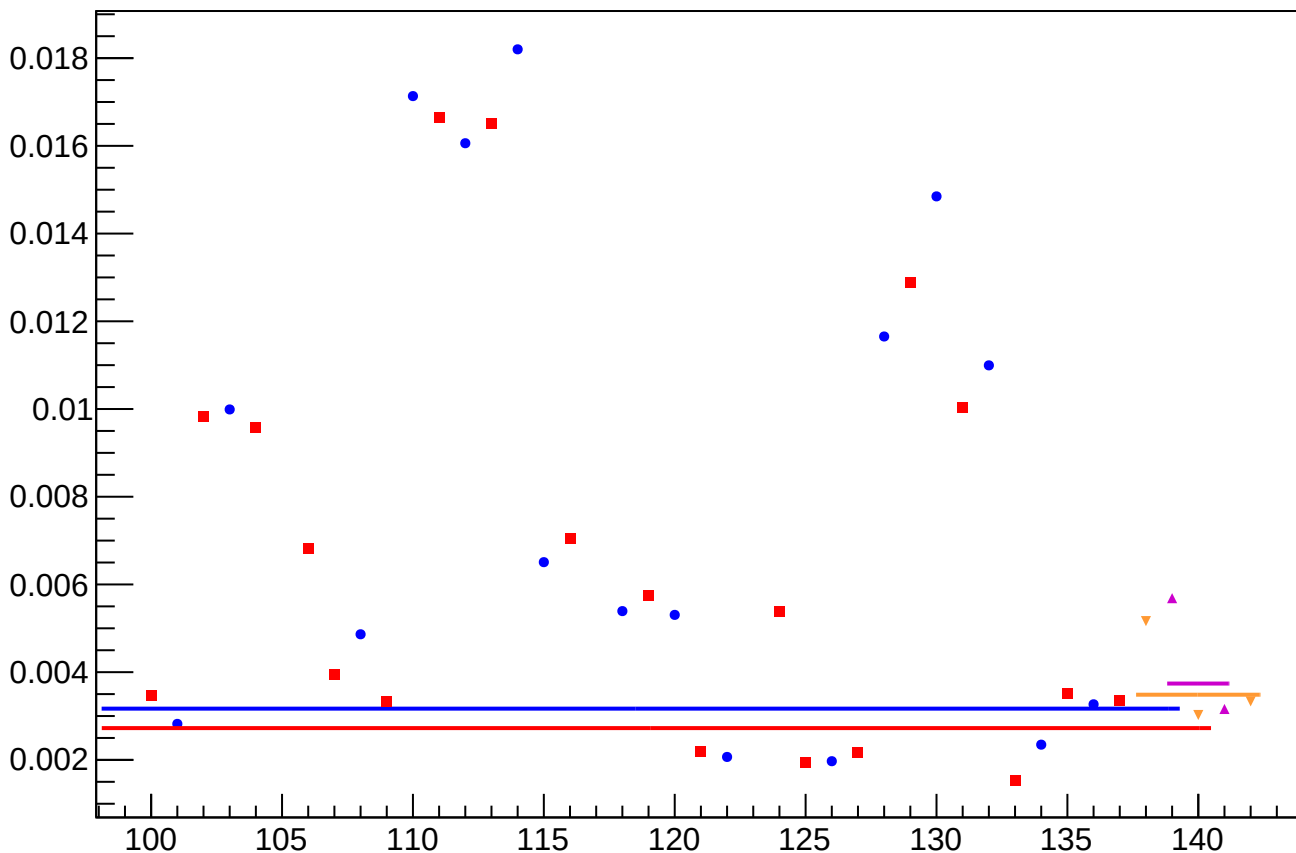
Right: -0.000 ± 0.000 χ^2/NDF : 27.8/34

In: 0.000 ± 0.000 χ^2/NDF : 14.9/17

Out: -0.000 ± 0.000 χ^2/NDF : 15.6/21

All: -0.000 ± 0.000 χ^2/NDF : 31.4/39

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4545616.6/15

Left Out: 0.003+/-0.000 χ^2/NDF :203144.9/2

Right Out: 0.003+/-0.000 χ^2/NDF : 5153213.6/18

Left In: 0.004+/-0.000 χ^2/NDF :257261.9/1

Left: 0.004+/-0.000 χ^2/NDF : 469008.9/4

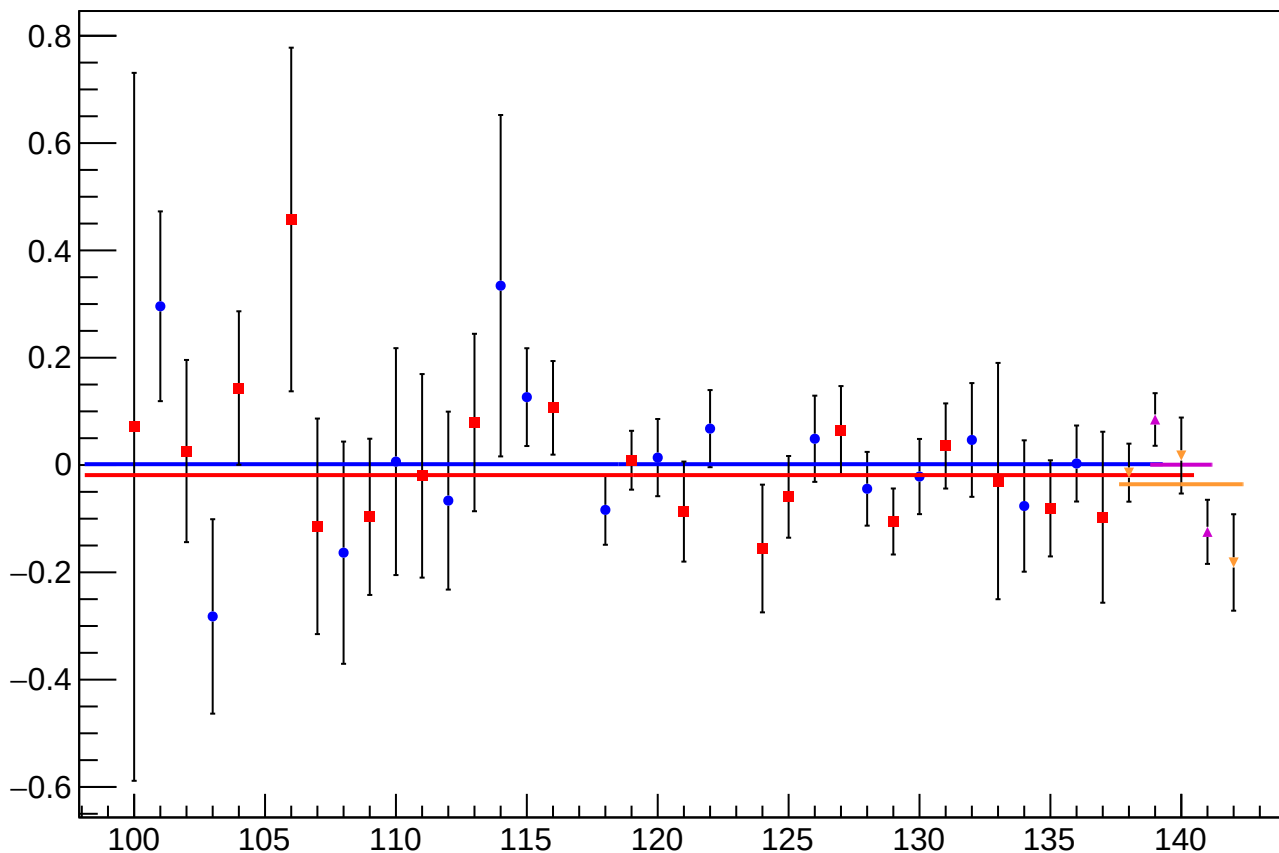
Right: 0.003+/-0.000 χ^2/NDF : 9804761.7/34

In: 0.003+/-0.000 χ^2/NDF :4863103.8/17

Out: 0.003+/-0.000 χ^2/NDF :5503422.1/21

All: 0.003+/-0.000 χ^2/NDF : 10472435.5/39

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.023 χ^2 /NDF: 13.1/15

Left Out: -0.036 $\pm$ 0.039 χ^2 /NDF:3.4/2

Right Out: -0.019 $\pm$ 0.024 χ^2 /NDF: 13.1/18

Left In: 0.001 $\pm$ 0.038 χ^2 /NDF:7.3/1

Left: -0.017 $\pm$ 0.027 χ^2 /NDF: 11.2/4

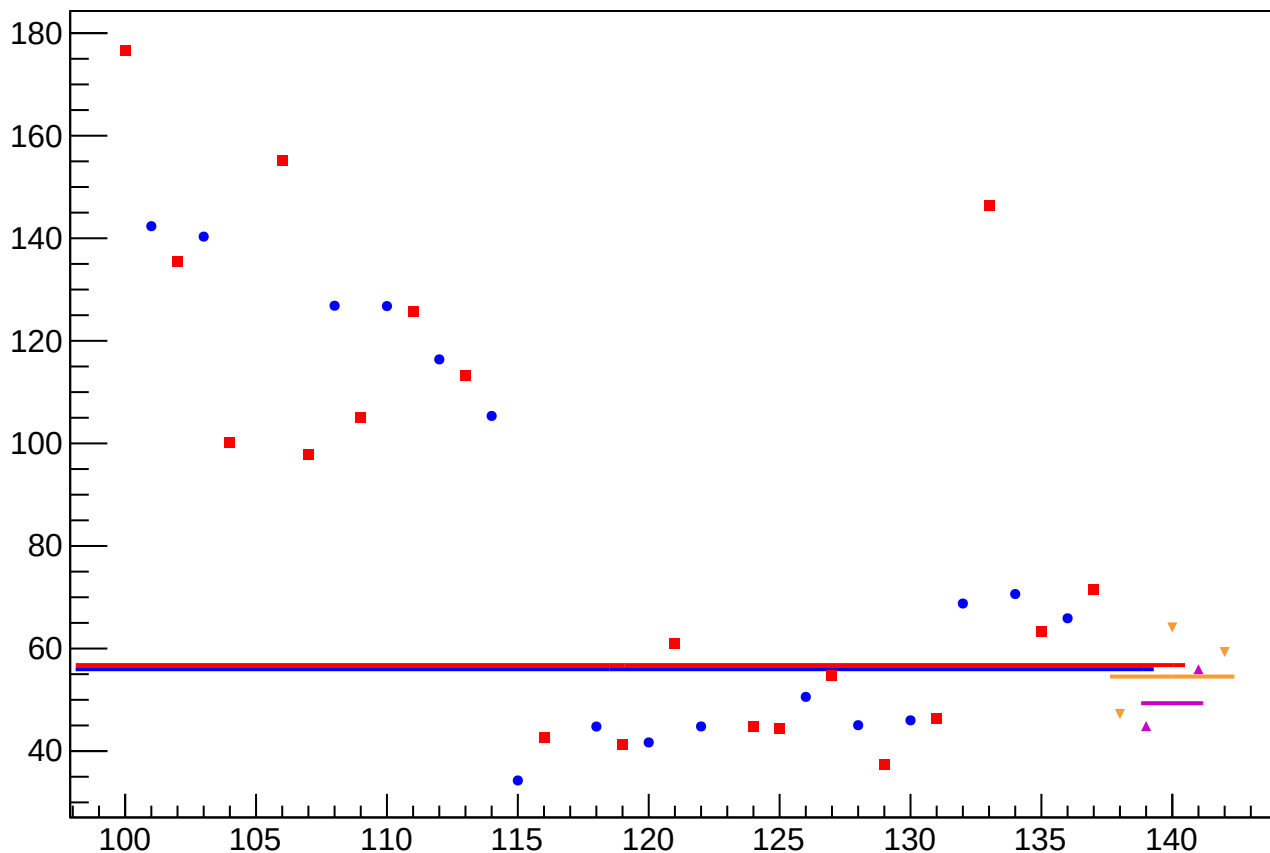
Right: -0.009 $\pm$ 0.017 χ^2 /NDF: 26.6/34

In: 0.001 $\pm$ 0.020 χ^2 /NDF:20.4/17

Out: -0.023 $\pm$ 0.020 χ^2 /NDF:16.6/21

All: -0.011 $\pm$ 0.014 χ^2 /NDF: 37.8/39

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 55.968 $\pm$ 0.017 χ^2 /NDF: 2179757.6/15

Left Out: 54.537 $\pm$ 0.027 χ^2 /NDF: 78758.2/2

Right Out: 56.770 $\pm$ 0.017 χ^2 /NDF: 2553168.3/18

Left In: 49.349 $\pm$ 0.027 χ^2 /NDF: 41056.9/1

Left: 51.884 $\pm$ 0.019 χ^2 /NDF: 138132.8/4

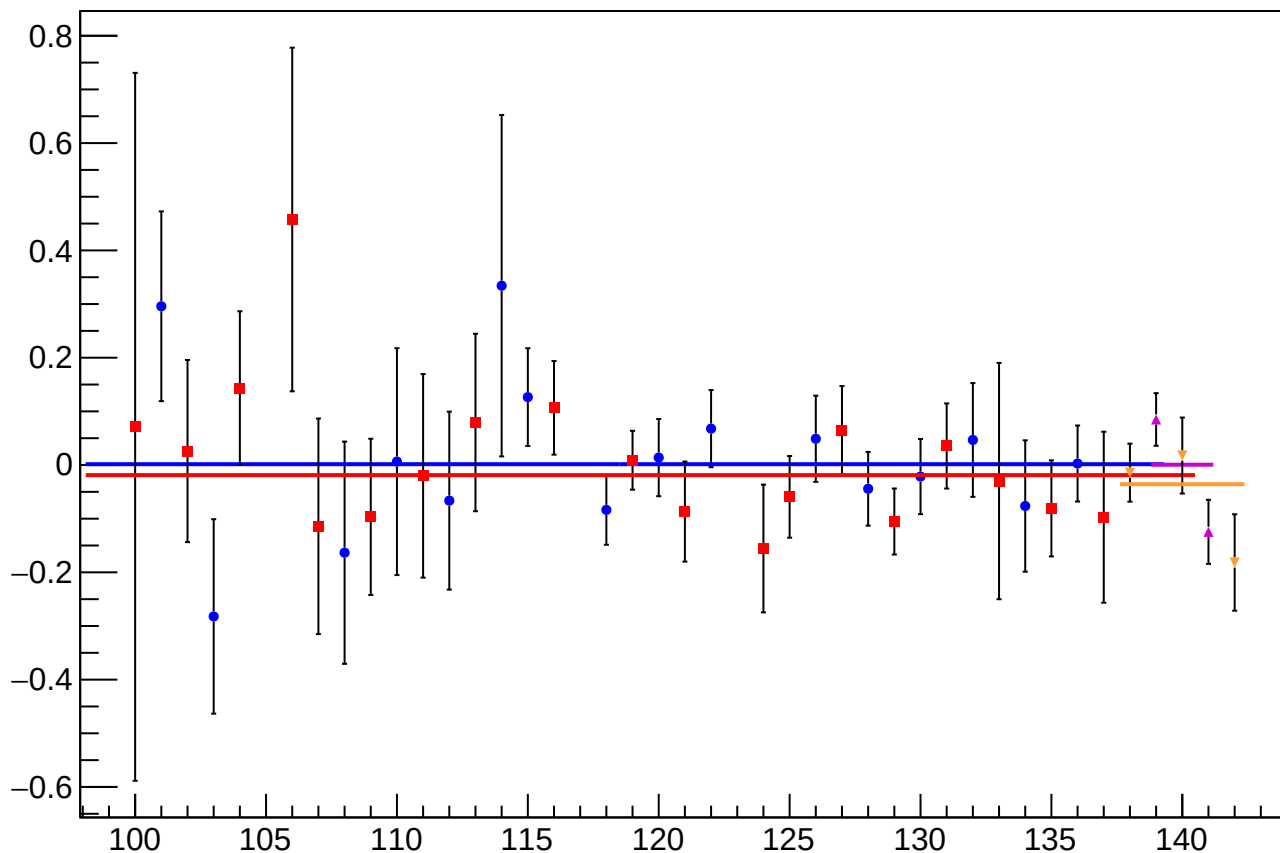
Right: 56.367 $\pm$ 0.012 χ^2 /NDF: 4734093.5/34

In: 54.139 $\pm$ 0.014 χ^2 /NDF: 2264969.7/17

Out: 56.169 $\pm$ 0.014 χ^2 /NDF: 2636774.3/21

All: 55.145 $\pm$ 0.010 χ^2 /NDF: 4912035.5/39

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 ± 0.023 $\chi^2/\text{NDF}: 13.1/15$

Left Out: -0.036 ± 0.039 $\chi^2/\text{NDF}: 3.4/2$

Right Out: -0.019 ± 0.024 $\chi^2/\text{NDF}: 13.1/18$

Left In: 0.001 ± 0.038 $\chi^2/\text{NDF}: 7.3/1$

Left: -0.017 ± 0.027 $\chi^2/\text{NDF}: 11.2/4$

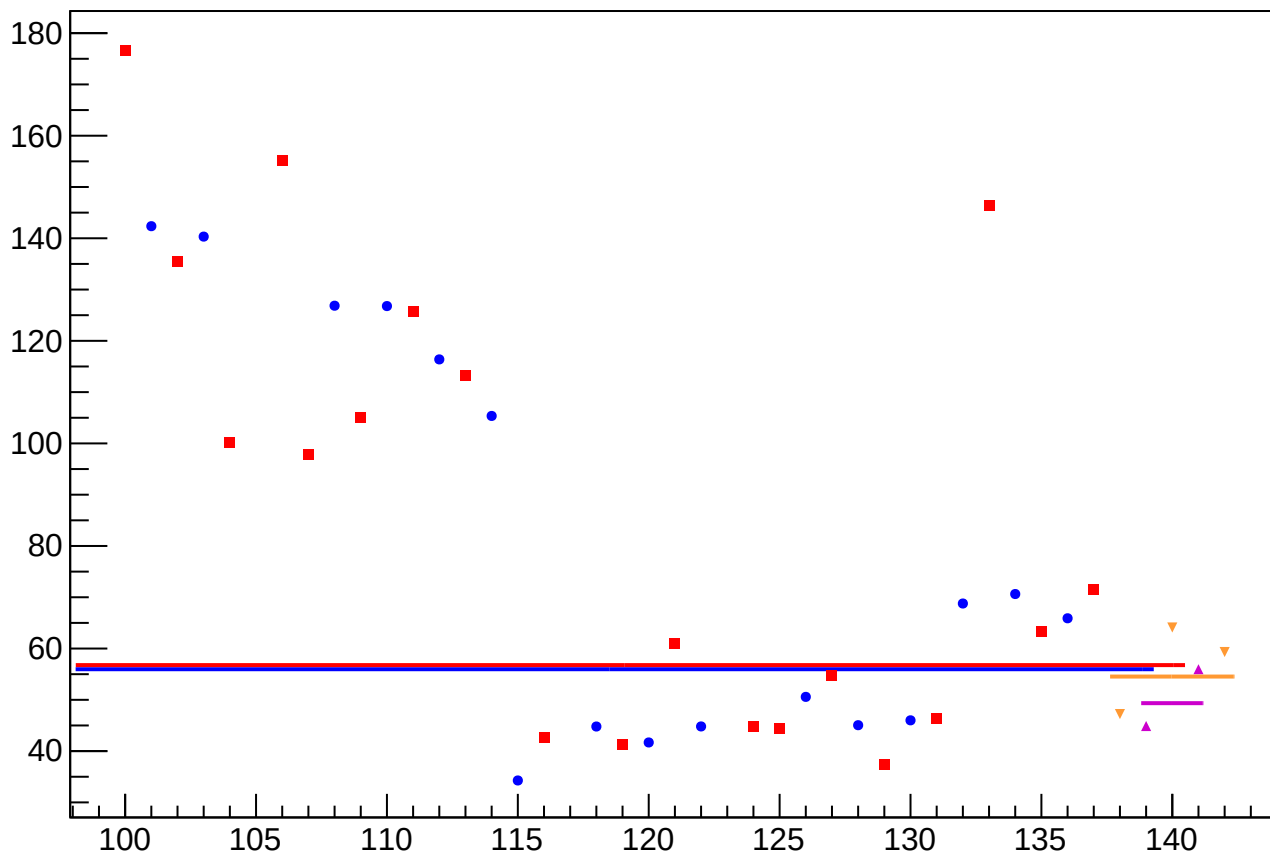
Right: -0.009 ± 0.017 $\chi^2/\text{NDF}: 26.6/34$

In: 0.001 ± 0.020 $\chi^2/\text{NDF}: 20.4/17$

Out: -0.023 ± 0.020 $\chi^2/\text{NDF}: 16.6/21$

All: -0.011 ± 0.014 $\chi^2/\text{NDF}: 37.8/39$

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 55.968+/-0.017 χ^2/NDF : 2179757.6/15

Left Out: 54.537+/-0.027 χ^2/NDF : 78758.2/2

Right Out: 56.770+/-0.017 χ^2/NDF : 2553168.3/18

Left In: 49.349+/-0.027 χ^2/NDF : 41056.9/1

Left: 51.884+/-0.019 χ^2/NDF : 138132.8/4

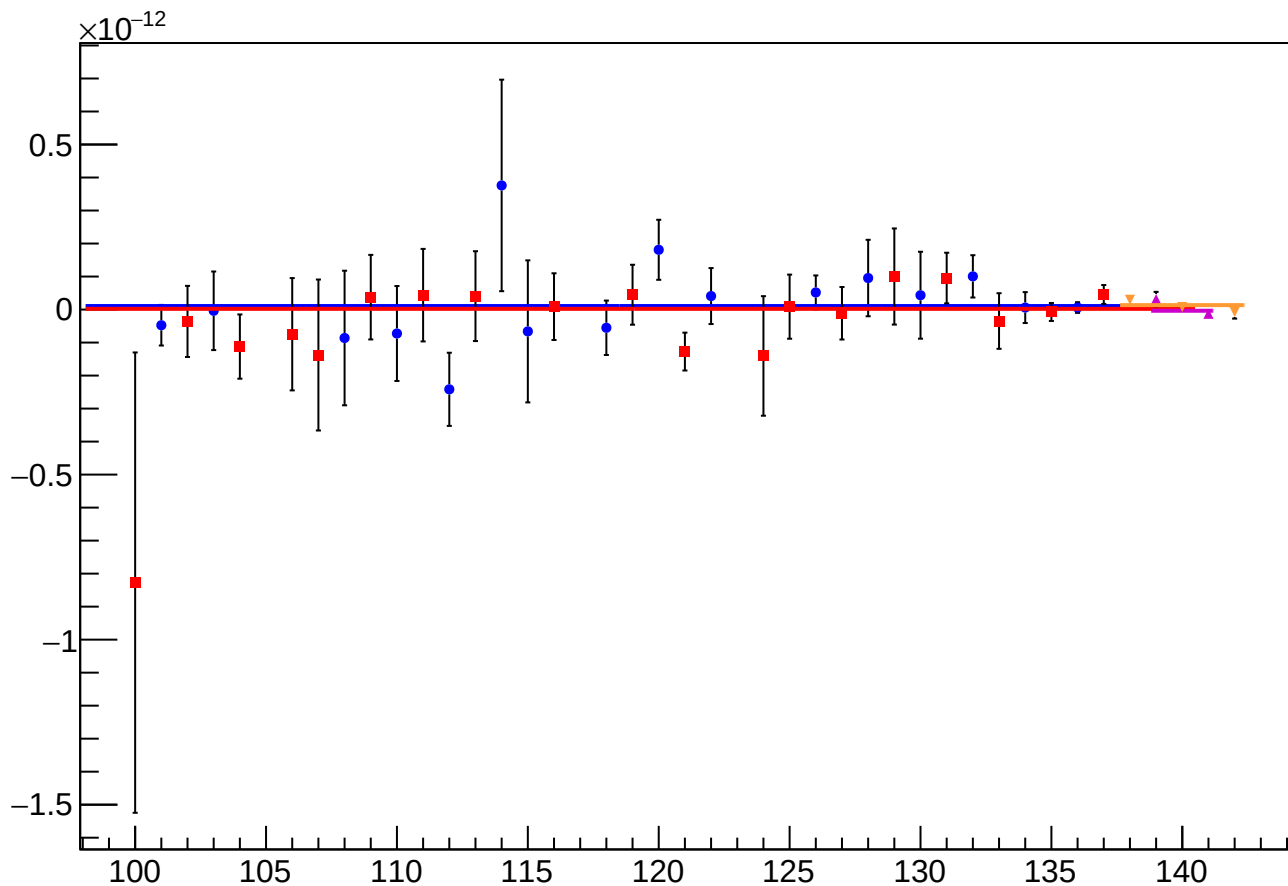
Right: 56.367+/-0.012 χ^2/NDF : 4734093.5/34

In: 54.139+/-0.014 χ^2/NDF : 2264969.7/17

Out: 56.169+/-0.014 χ^2/NDF : 2636774.3/21

All: 55.145+/-0.010 χ^2/NDF : 4912035.5/39

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 14.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 3.3/1

Left: 0.000+/-0.000 χ^2/NDF : 7.8/4

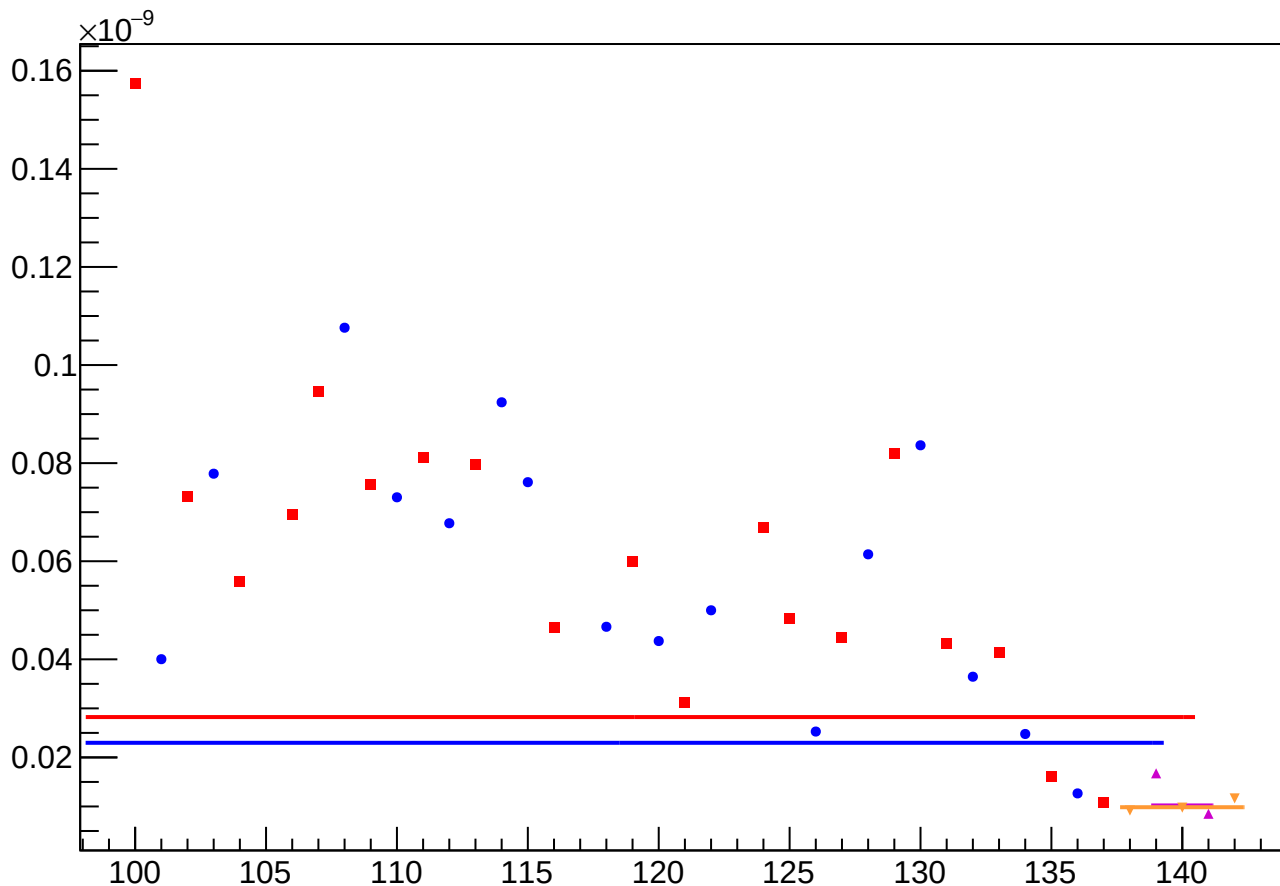
Right: 0.000+/-0.000 χ^2/NDF : 30.1/34

In: 0.000+/-0.000 χ^2/NDF : 19.7/17

Out: 0.000+/-0.000 χ^2/NDF : 17.5/21

All: 0.000+/-0.000 χ^2/NDF : 37.9/39

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3731982.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :21548.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3820523.4/18

Left In: 0.000+/-0.000 χ^2/NDF :224968.6/1

Left: 0.000+/-0.000 χ^2/NDF : 248116.5/4

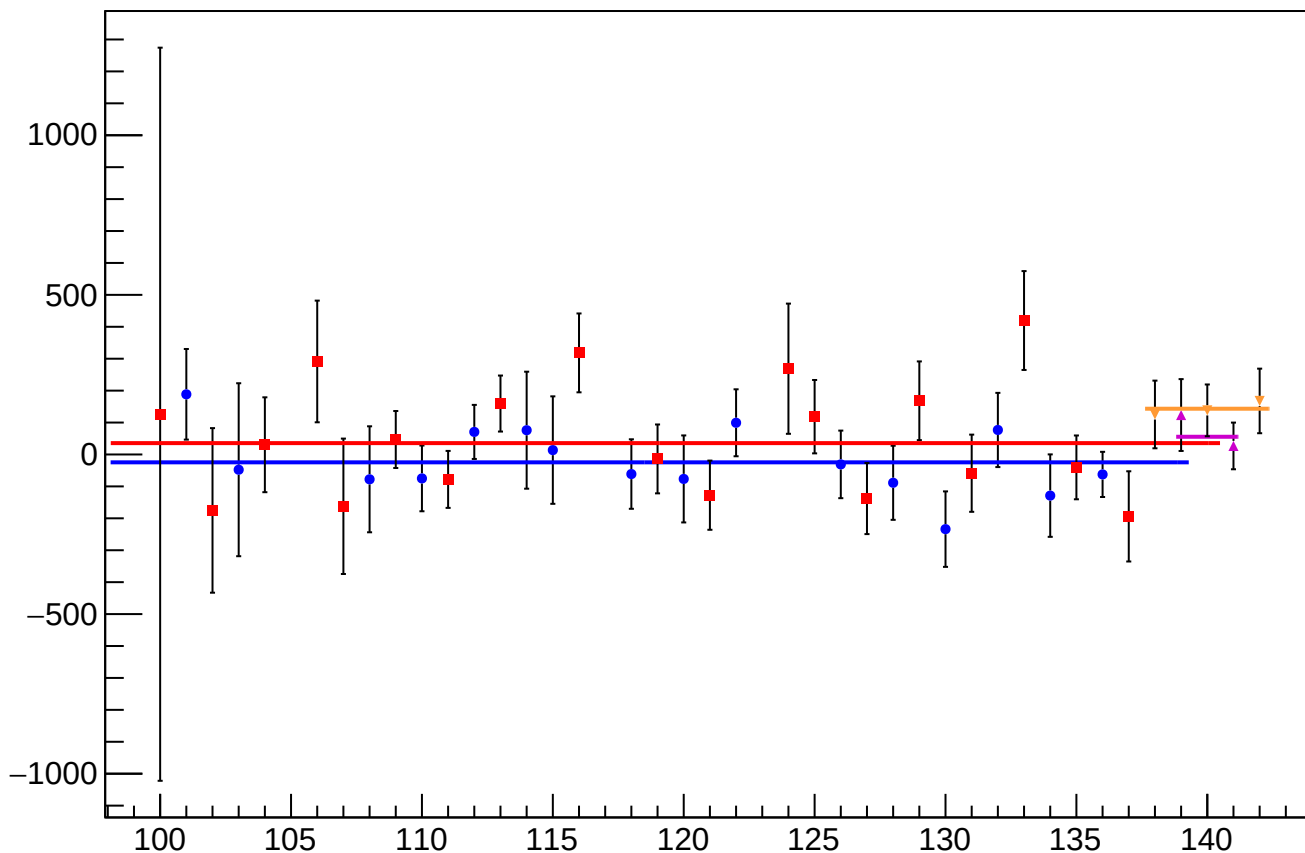
Right: 0.000+/-0.000 χ^2/NDF : 7687404.1/34

In: 0.000+/-0.000 χ^2/NDF :5179875.3/17

Out: 0.000+/-0.000 χ^2/NDF :6051871.5/21

All: 0.000+/-0.000 χ^2/NDF : 11255158.9/39

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -24.632 ± 28.913 $\chi^2/\text{NDF}: 11.0/15$

Left Out: 143.323 ± 54.329 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 35.582 ± 28.454 $\chi^2/\text{NDF}: 30.1/18$

Left In: 55.483 ± 61.307 $\chi^2/\text{NDF}: 0.5/1$

Left: 104.685 ± 40.660 $\chi^2/\text{NDF}: 1.8/4$

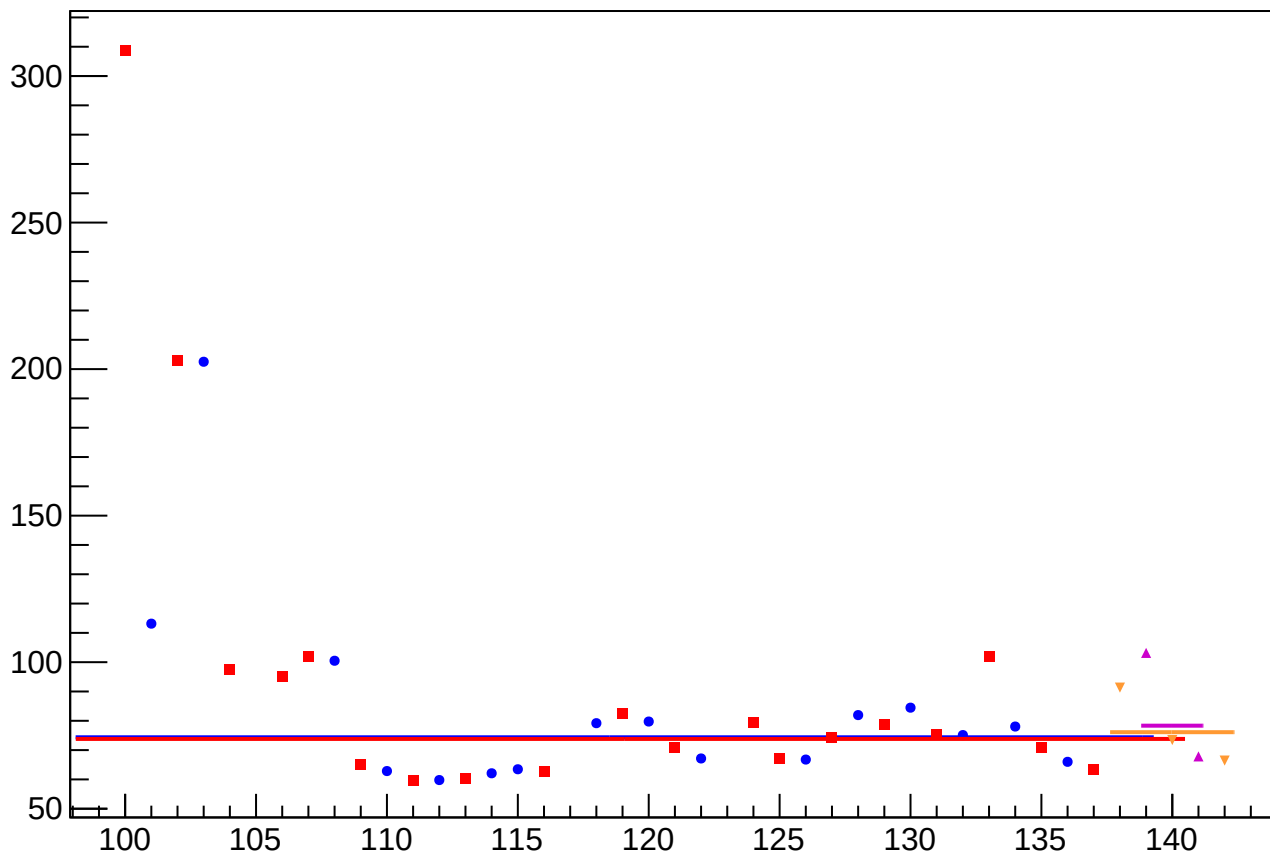
Right: 5.956 ± 20.280 $\chi^2/\text{NDF}: 43.3/34$

In: -10.055 ± 26.150 $\chi^2/\text{NDF}: 12.9/17$

Out: 58.774 ± 25.206 $\chi^2/\text{NDF}: 33.3/21$

All: 25.624 ± 18.148 $\chi^2/\text{NDF}: 49.8/39$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 74.369+/-0.020 χ^2 /NDF: 827583.1/15

Left Out: 76.115+/-0.038 χ^2 /NDF: 61726.1/2

Right Out: 73.815+/-0.020 χ^2 /NDF: 931949.0/18

Left In: 78.336+/-0.043 χ^2 /NDF: 138533.9/1

Left: 77.092+/-0.029 χ^2 /NDF: 201730.0/4

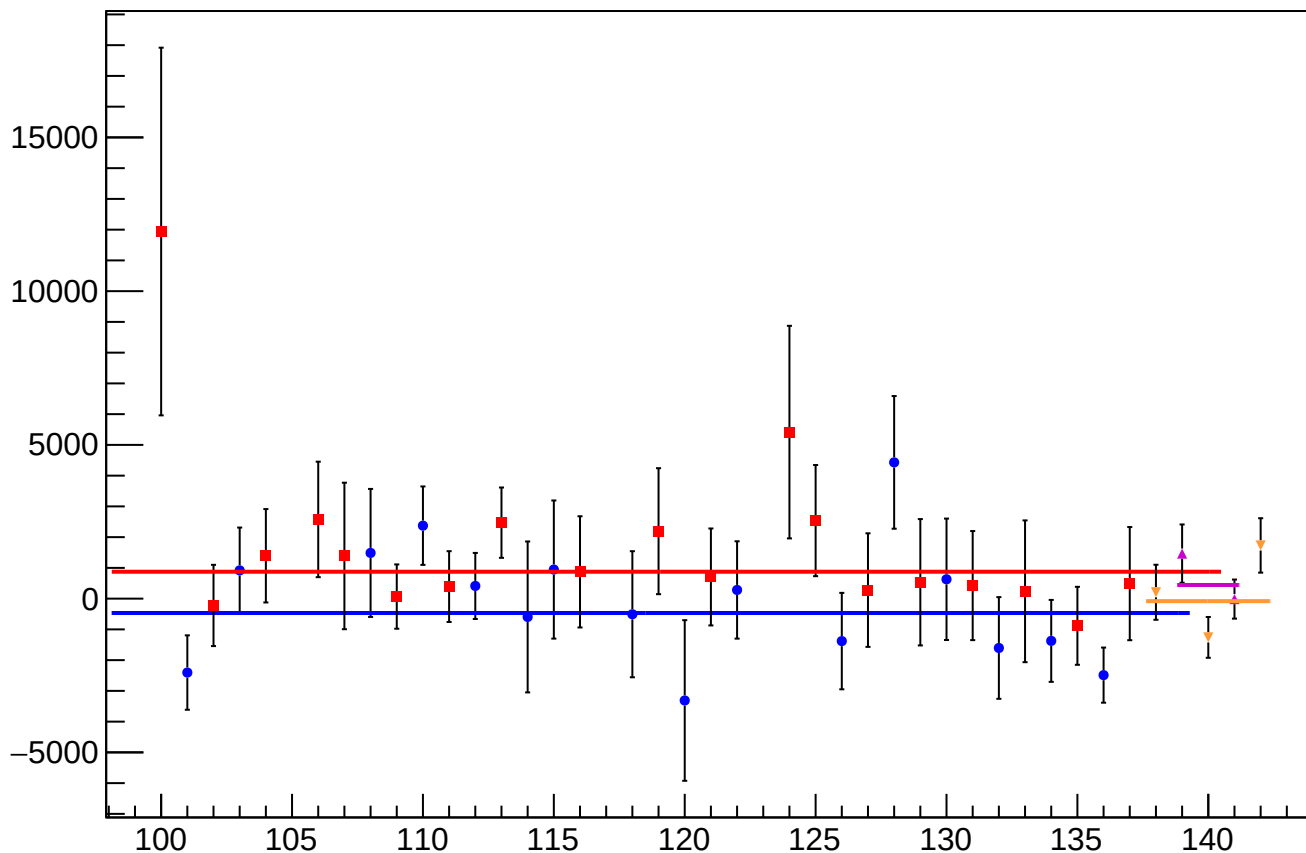
Right: 74.088+/-0.014 χ^2 /NDF: 1759905.2/34

In: 75.091+/-0.018 χ^2 /NDF: 972968.3/17

Out: 74.310+/-0.018 χ^2 /NDF: 996489.1/21

All: 74.686+/-0.013 χ^2 /NDF: 1970381.4/39

asym_sam_37_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -466.524+/-375.030 χ^2/NDF : 23.7/15

Left Out: -81.738+/-456.661 χ^2/NDF : 7.4/2

Right Out: 875.351+/-372.239 χ^2/NDF : 13.1/18

Left In: 444.049+/-527.854 χ^2/NDF : 1.7/1

Left: 143.332+/-345.357 χ^2/NDF : 9.7/4

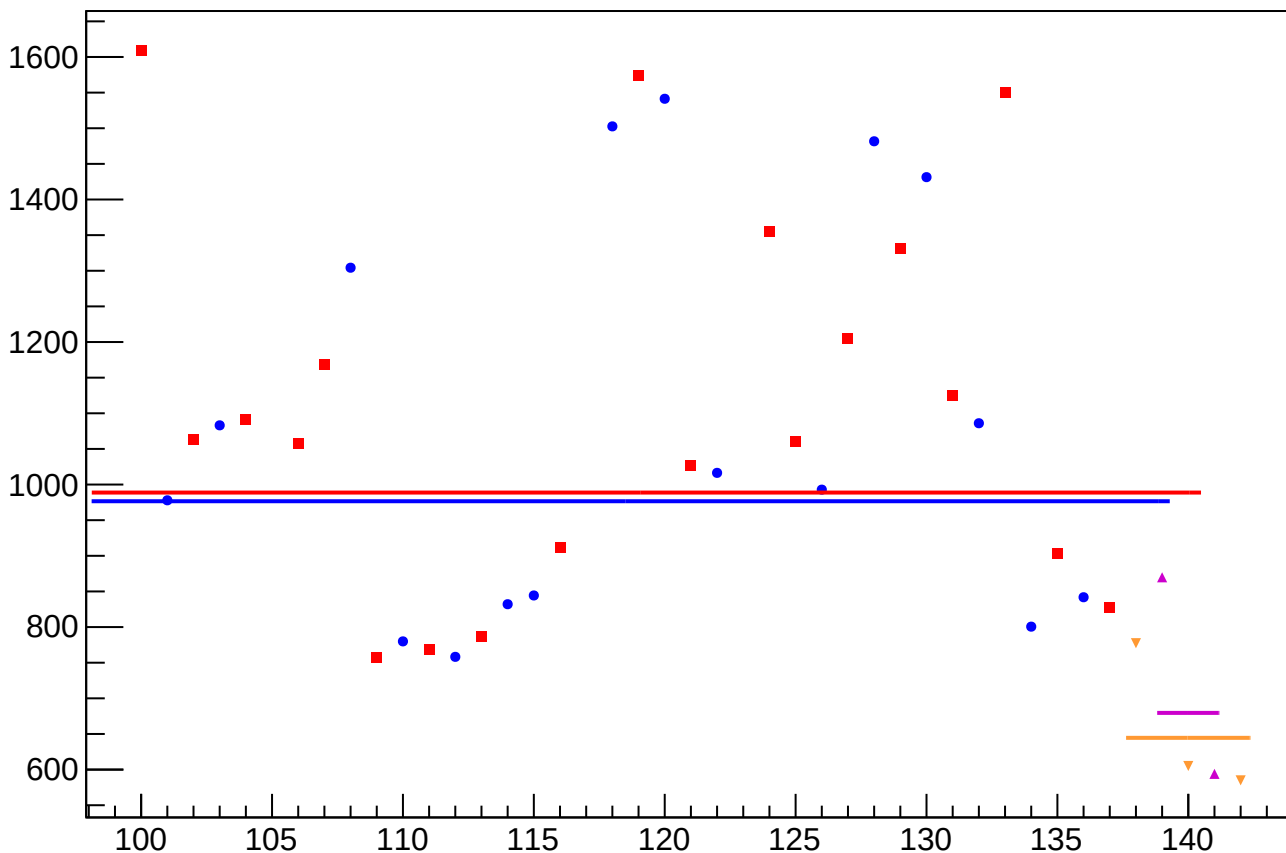
Right: 209.426+/-264.194 χ^2/NDF : 43.2/34

In: -161.070+/-305.724 χ^2/NDF : 27.4/17

Out: 493.284+/-288.528 χ^2/NDF : 23.1/21

All: 185.026+/-209.836 χ^2/NDF : 52.9/39

asym_sam_37_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 976.583 $\pm$ 0.265 χ^2 /NDF: 736605.1/15

Left Out: 644.562 $\pm$ 0.323 χ^2 /NDF: 60203.9/2

Right Out: 988.763 $\pm$ 0.263 χ^2 /NDF: 715703.4/18

Left In: 679.566 $\pm$ 0.373 χ^2 /NDF: 116839.3/1

Left: 659.546 $\pm$ 0.244 χ^2 /NDF: 182073.4/4

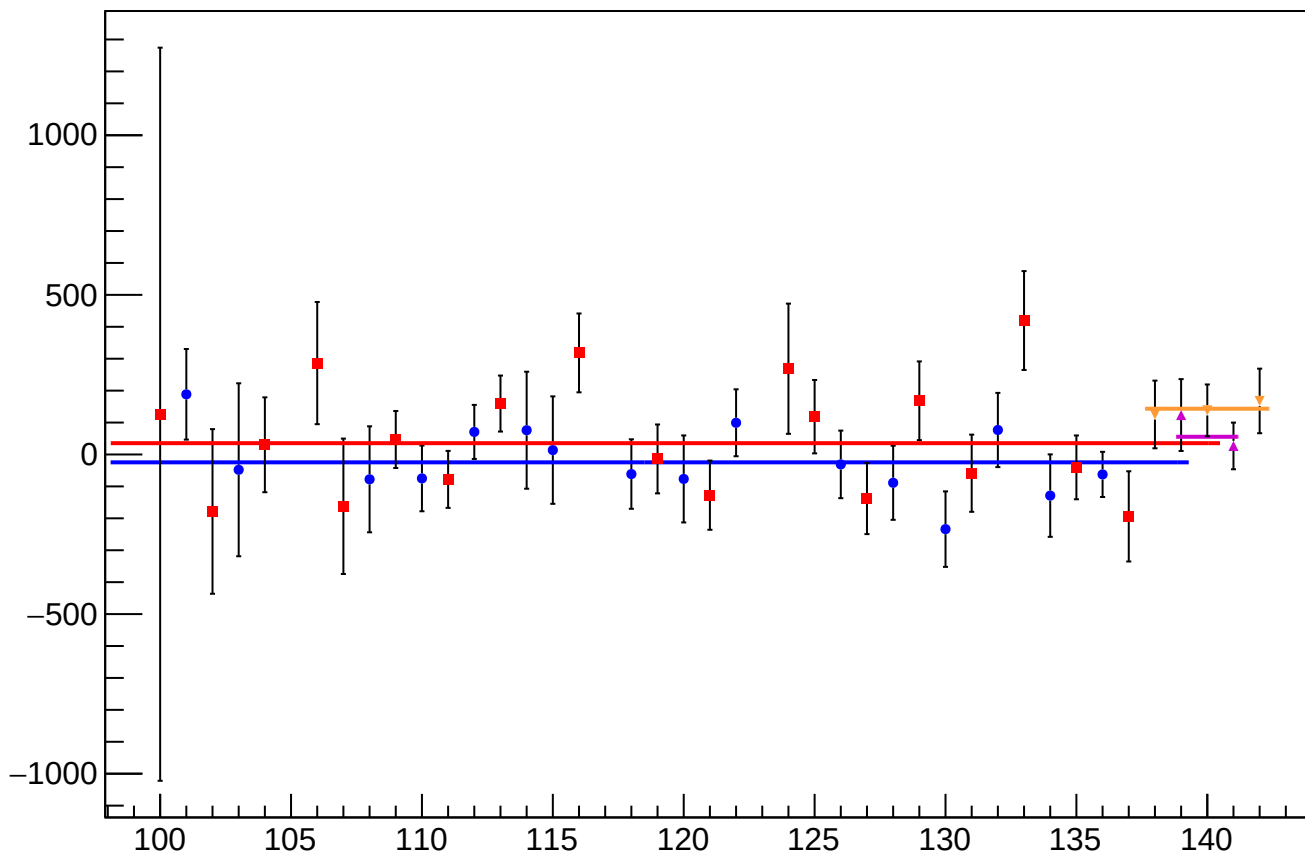
Right: 982.718 $\pm$ 0.187 χ^2 /NDF: 1453371.3/34

In: 876.948 $\pm$ 0.216 χ^2 /NDF: 1274258.7/17

Out: 851.359 $\pm$ 0.204 χ^2 /NDF: 1458558.0/21

All: 863.414 $\pm$ 0.148 χ^2 /NDF: 2740227.1/39

cor_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -24.640 ± 28.913 $\chi^2/\text{NDF}: 11.0/15$

Left Out: 143.330 ± 54.329 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 35.383 ± 28.457 $\chi^2/\text{NDF}: 30.0/18$

Left In: 55.483 ± 61.307 $\chi^2/\text{NDF}: 0.5/1$

Left: 104.688 ± 40.660 $\chi^2/\text{NDF}: 1.8/4$

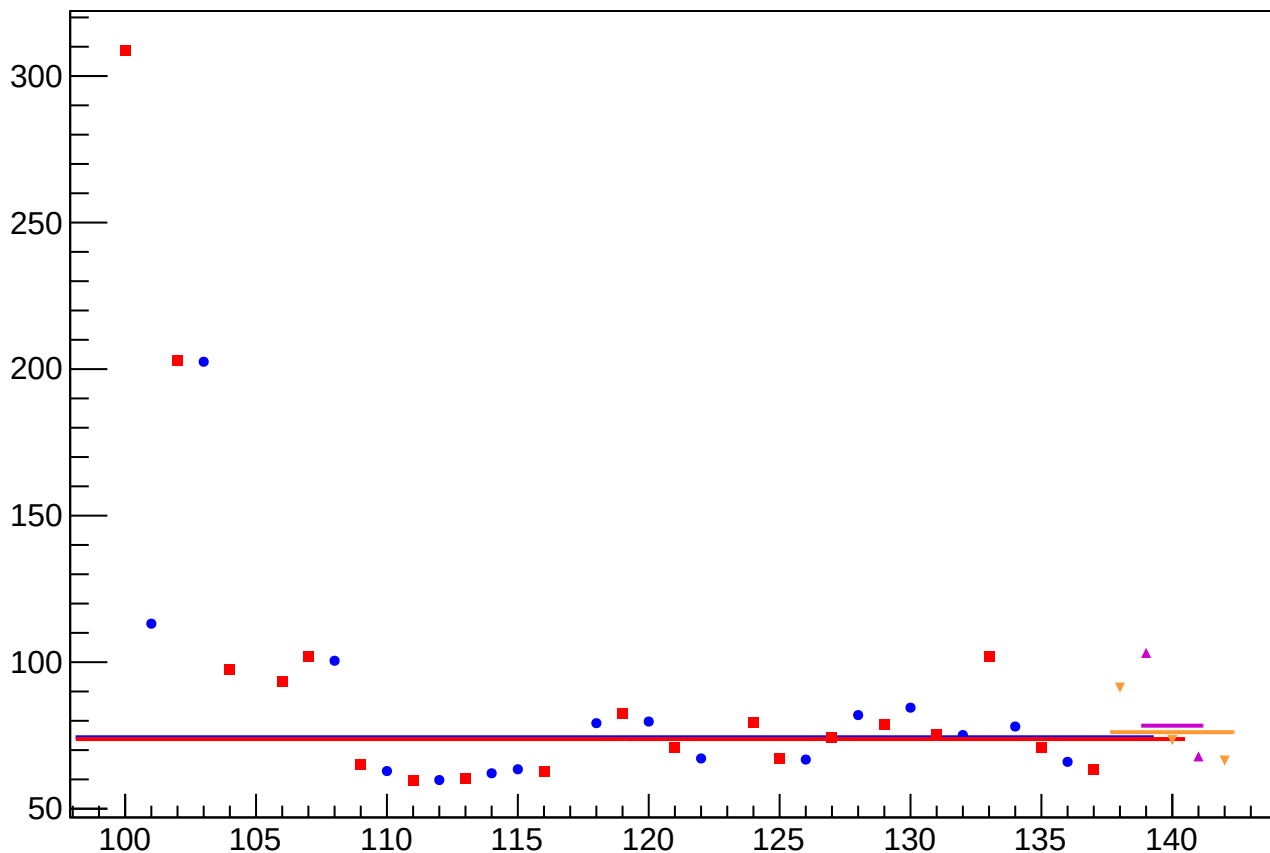
Right: 5.848 ± 20.281 $\chi^2/\text{NDF}: 43.2/34$

In: -10.062 ± 26.150 $\chi^2/\text{NDF}: 12.9/17$

Out: 58.623 ± 25.208 $\chi^2/\text{NDF}: 33.2/21$

All: 25.540 ± 18.149 $\chi^2/\text{NDF}: 49.7/39$

cor_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 74.369+/-0.020 χ^2/NDF : 827585.2/15

Left Out: 76.115+/-0.038 χ^2/NDF : 61726.1/2

Right Out: 73.773+/-0.020 χ^2/NDF : 928163.8/18

Left In: 78.336+/-0.043 χ^2/NDF : 138533.9/1

Left: 77.092+/-0.029 χ^2/NDF : 201730.0/4

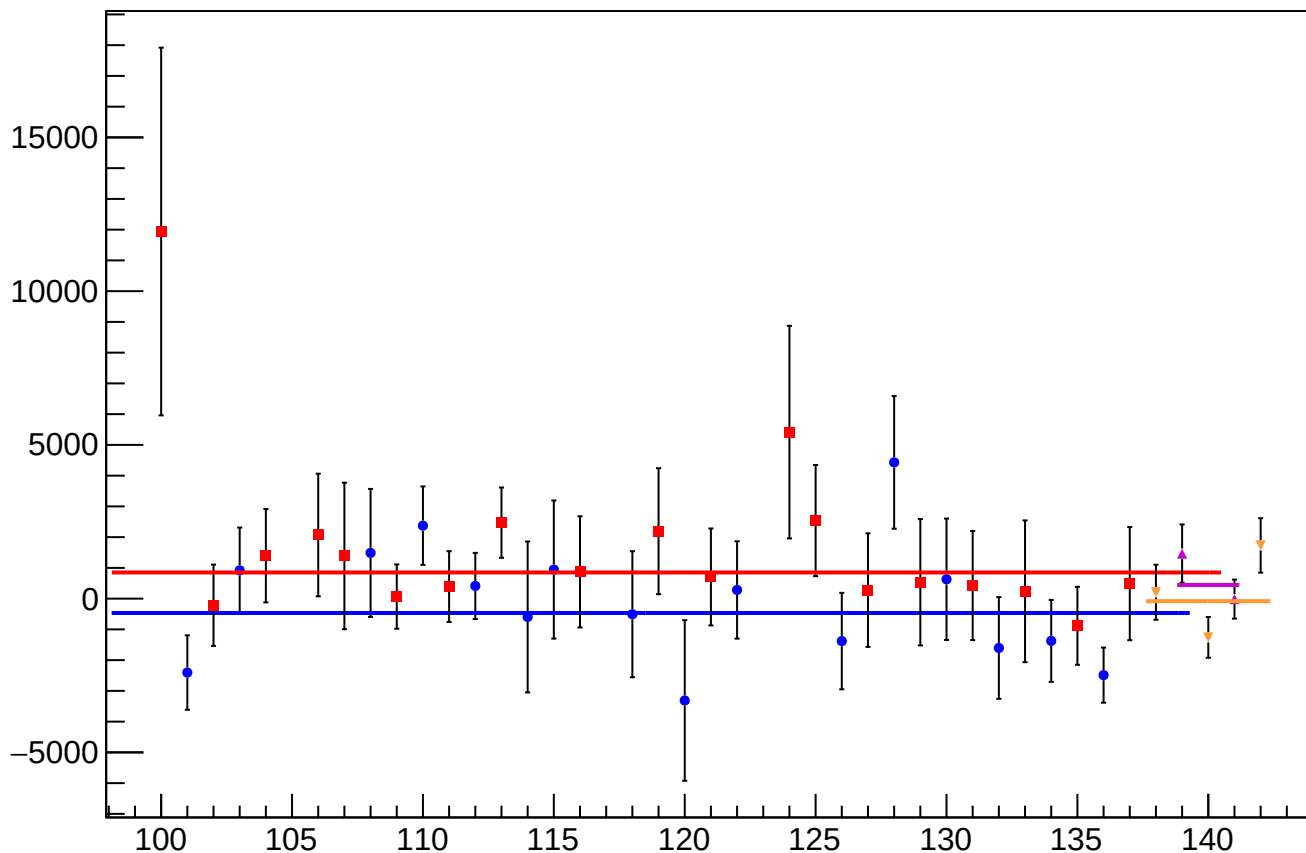
Right: 74.066+/-0.014 χ^2/NDF : 1756180.6/34

In: 75.091+/-0.018 χ^2/NDF : 972970.4/17

Out: 74.277+/-0.018 χ^2/NDF : 992807.2/21

All: 74.669+/-0.013 χ^2/NDF : 1966780.7/39

asym_sam_37_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -466.511+/-375.033 χ^2/NDF : 23.7/15

Left Out: -81.722+/-456.661 χ^2/NDF : 7.4/2

Right Out: 850.757+/-373.092 χ^2/NDF : 12.6/18

Left In: 444.051+/-527.855 χ^2/NDF : 1.7/1

Left: 143.342+/-345.357 χ^2/NDF : 9.7/4

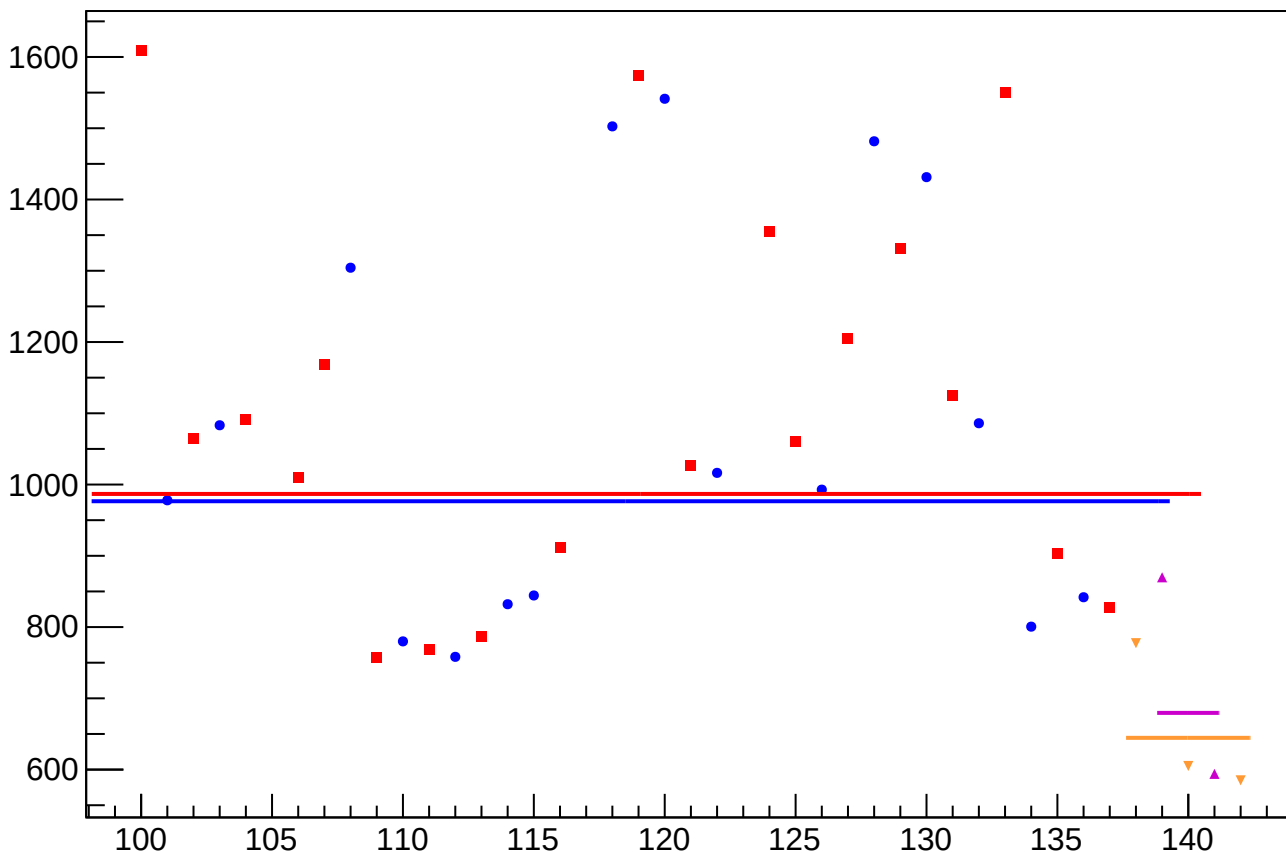
Right: 195.541+/-264.500 χ^2/NDF : 42.5/34

In: -161.058+/-305.726 χ^2/NDF : 27.4/17

Out: 477.489+/-288.925 χ^2/NDF : 22.5/21

All: 176.243+/-209.989 χ^2/NDF : 52.2/39

asym_sam_37_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 976.589+/-0.265 χ^2/NDF : 736628.5/15

Left Out: 644.561+/-0.323 χ^2/NDF : 60203.9/2

Right Out: 986.823+/-0.264 χ^2/NDF : 713316.0/18

Left In: 679.567+/-0.373 χ^2/NDF : 116837.9/1

Left: 659.546+/-0.244 χ^2/NDF : 182072.5/4

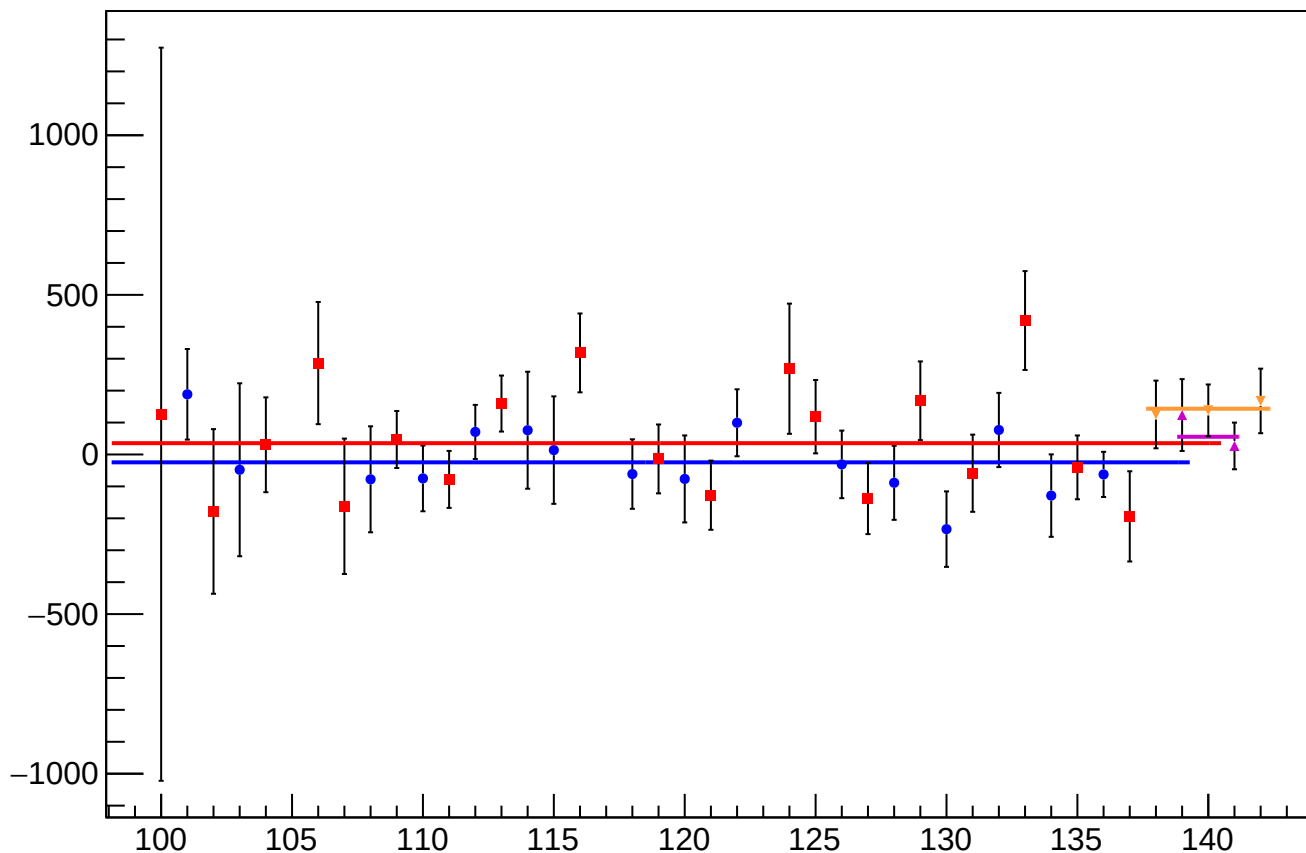
Right: 981.733+/-0.187 χ^2/NDF : 1450693.2/34

In: 876.951+/-0.216 χ^2/NDF : 1274291.8/17

Out: 849.817+/-0.204 χ^2/NDF : 1447267.2/21

All: 862.618+/-0.148 χ^2/NDF : 2729881.0/39

eigen_cor_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -24.640 ± 28.913 $\chi^2/\text{NDF}: 11.0/15$

Left Out: 143.330 ± 54.329 $\chi^2/\text{NDF}: 0.1/2$

Right Out: 35.383 ± 28.457 $\chi^2/\text{NDF}: 30.0/18$

Left In: 55.483 ± 61.307 $\chi^2/\text{NDF}: 0.5/1$

Left: 104.688 ± 40.660 $\chi^2/\text{NDF}: 1.8/4$

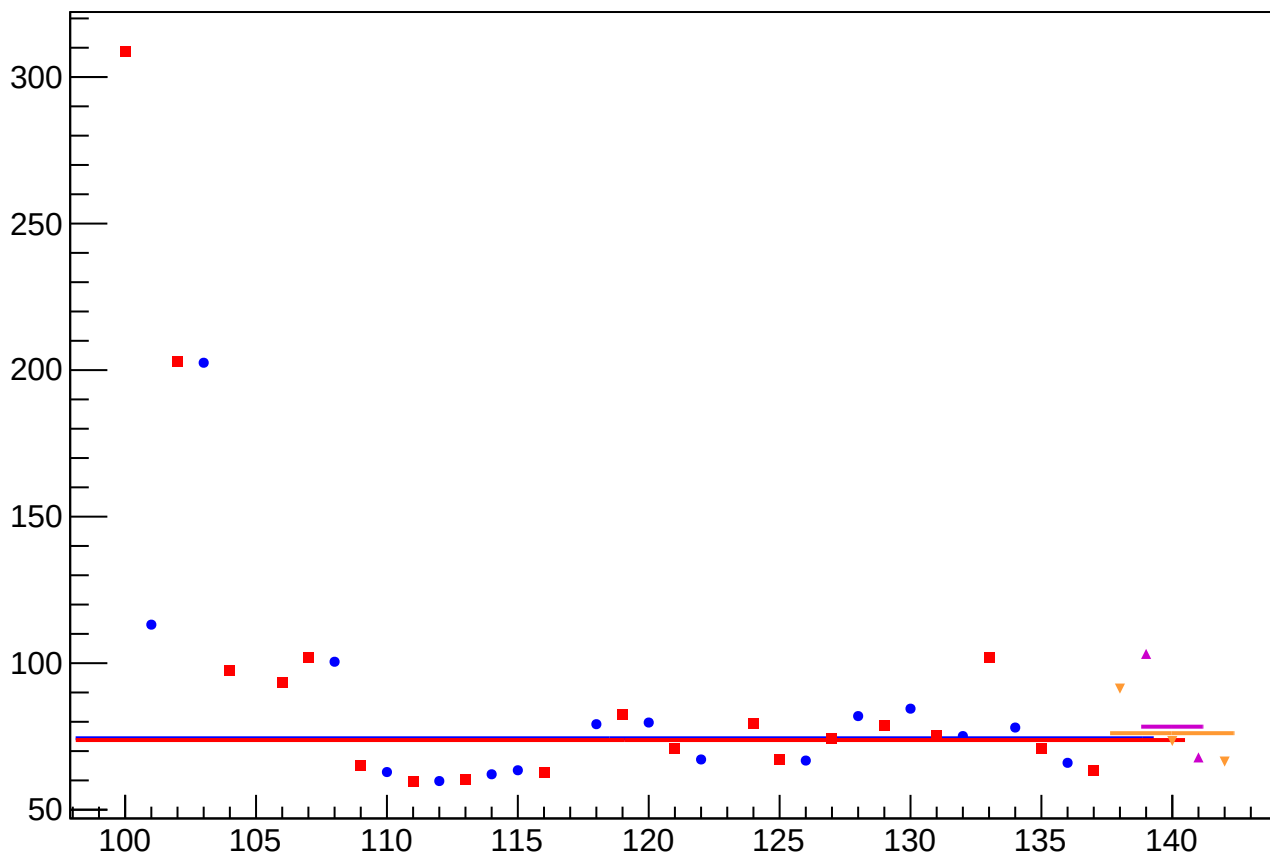
Right: 5.848 ± 20.281 $\chi^2/\text{NDF}: 43.2/34$

In: -10.062 ± 26.150 $\chi^2/\text{NDF}: 12.9/17$

Out: 58.623 ± 25.208 $\chi^2/\text{NDF}: 33.2/21$

All: 25.540 ± 18.149 $\chi^2/\text{NDF}: 49.7/39$

eigen_cor_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 74.369 $\pm$ 0.020 χ^2 /NDF: 827585.2/15

Left Out: 76.115 $\pm$ 0.038 χ^2 /NDF: 61726.1/2

Right Out: 73.773 $\pm$ 0.020 χ^2 /NDF: 928163.8/18

Left In: 78.336 $\pm$ 0.043 χ^2 /NDF: 138533.9/1

Left: 77.092 $\pm$ 0.029 χ^2 /NDF: 201730.0/4

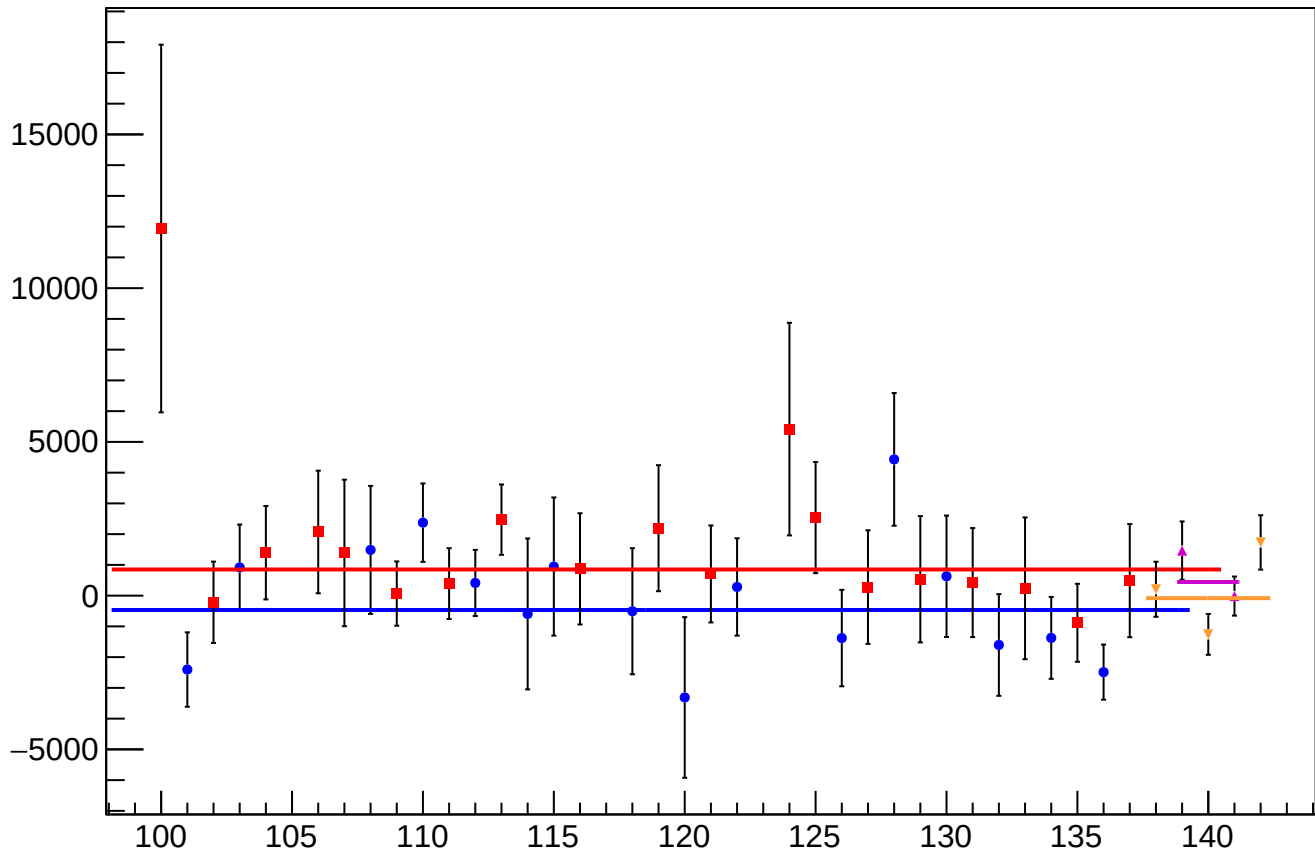
Right: 74.066 $\pm$ 0.014 χ^2 /NDF: 1756180.6/34

In: 75.091 $\pm$ 0.018 χ^2 /NDF: 972970.4/17

Out: 74.277 $\pm$ 0.018 χ^2 /NDF: 992807.2/21

All: 74.669 $\pm$ 0.013 χ^2 /NDF: 1966780.7/39

asym_sam_37_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -466.511 $\pm$ 375.033 χ^2 /NDF: 23.7/15

Left Out: -81.722 $\pm$ 456.661 χ^2 /NDF: 7.4/2

Right Out: 850.757 $\pm$ 373.092 χ^2 /NDF: 12.6/18

Left In: 444.051 $\pm$ 527.855 χ^2 /NDF: 1.7/1

Left: 143.342 $\pm$ 345.357 χ^2 /NDF: 9.7/4

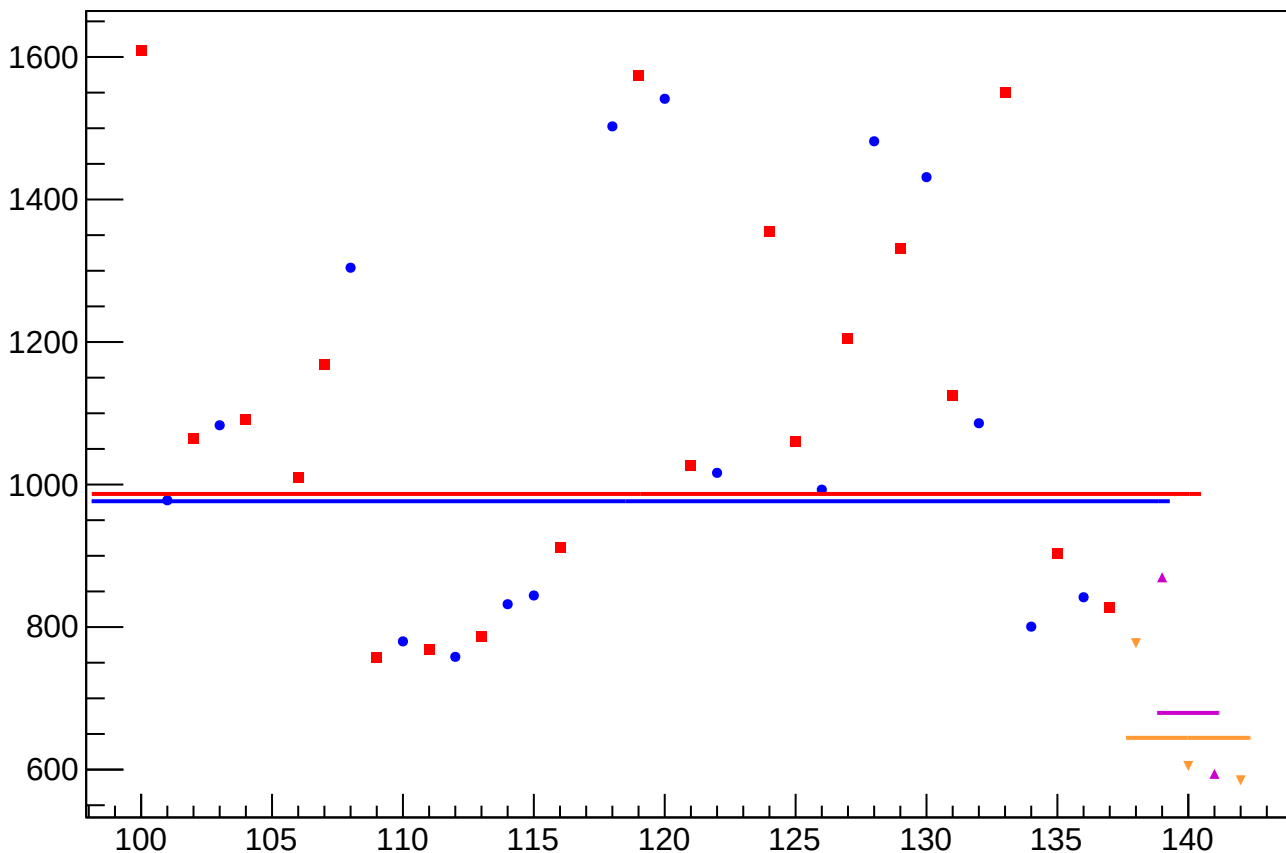
Right: 195.541 $\pm$ 264.500 χ^2 /NDF: 42.5/34

In: -161.058 $\pm$ 305.726 χ^2 /NDF: 27.4/17

Out: 477.489 $\pm$ 288.925 χ^2 /NDF: 22.5/21

All: 176.243 $\pm$ 209.989 χ^2 /NDF: 52.2/39

asym_sam_37_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 976.589+/-0.265 χ^2/NDF : 736628.5/15

Left Out: 644.561+/-0.323 χ^2/NDF : 60203.9/2

Right Out: 986.823+/-0.264 χ^2/NDF : 713316.0/18

Left In: 679.567+/-0.373 χ^2/NDF : 116837.9/1

Left: 659.546+/-0.244 χ^2/NDF : 182072.5/4

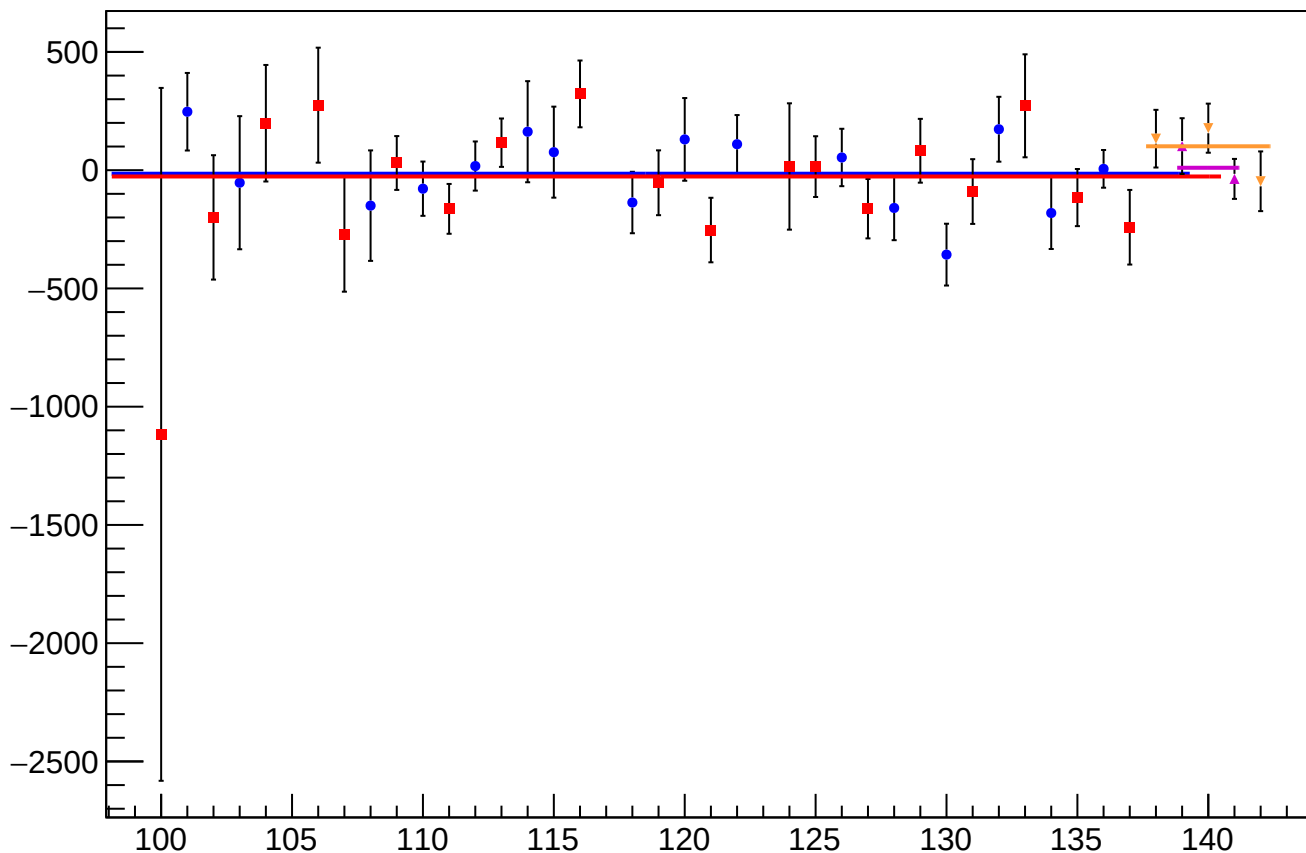
Right: 981.733+/-0.187 χ^2/NDF : 1450693.2/34

In: 876.951+/-0.216 χ^2/NDF : 1274291.8/17

Out: 849.817+/-0.204 χ^2/NDF : 1447267.2/21

All: 862.618+/-0.148 χ^2/NDF : 2729881.0/39

dit_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -14.953 ± 33.761 χ^2/NDF : 18.3/15

Left Out: 101.015 ± 66.988 χ^2/NDF : 2.0/2

Right Out: -26.654 ± 34.073 χ^2/NDF : 23.6/18

Left In: 10.233 ± 68.697 χ^2/NDF : 0.9/1

Left: 56.767 ± 47.961 χ^2/NDF : 3.8/4

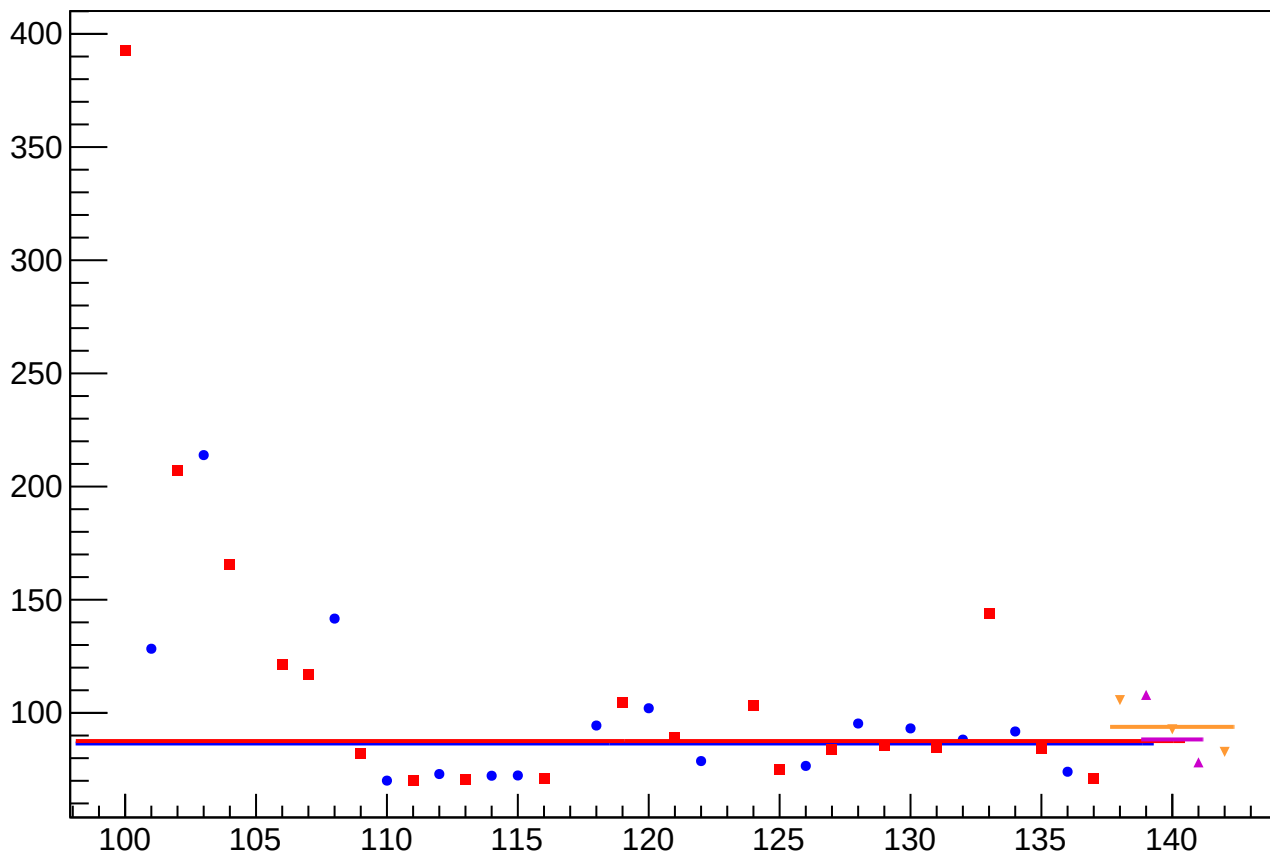
Right: -20.750 ± 23.982 χ^2/NDF : 41.9/34

In: -10.054 ± 30.300 χ^2/NDF : 19.3/17

Out: -0.414 ± 30.370 χ^2/NDF : 28.5/21

All: -5.245 ± 21.450 χ^2/NDF : 47.8/39

dit_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 86.489 $\pm$ 0.024 χ^2 /NDF: 856257.9/15

Left Out: 93.829 $\pm$ 0.047 χ^2 /NDF: 34333.2/2

Right Out: 87.555 $\pm$ 0.024 χ^2 /NDF: 1129794.0/18

Left In: 88.269 $\pm$ 0.049 χ^2 /NDF: 84356.3/1

Left: 91.119 $\pm$ 0.034 χ^2 /NDF: 125405.8/4

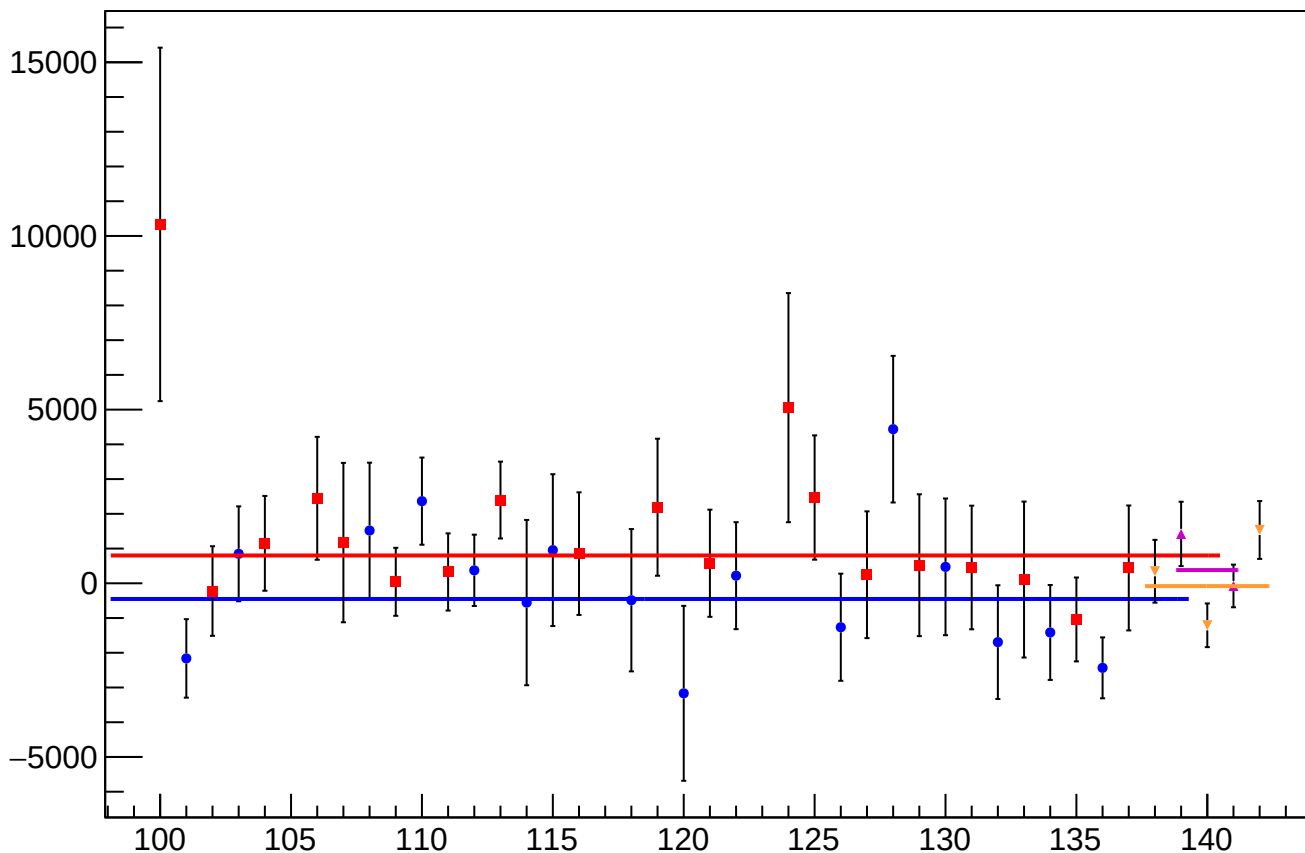
Right: 87.017 $\pm$ 0.017 χ^2 /NDF: 1987038.9/34

In: 86.835 $\pm$ 0.021 χ^2 /NDF: 941695.9/17

Out: 88.844 $\pm$ 0.021 χ^2 /NDF: 1178068.5/21

All: 87.837 $\pm$ 0.015 χ^2 /NDF: 2124150.5/39

asym_sam_37_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -451.380+/-365.605 χ^2/NDF : 23.7/15

Left Out: -81.089+/-438.697 χ^2/NDF : 7.2/2

Right Out: 801.206+/-357.866 χ^2/NDF : 13.6/18

Left In: 380.719+/-511.853 χ^2/NDF : 1.8/1

Left: 114.483+/-333.095 χ^2/NDF : 9.5/4

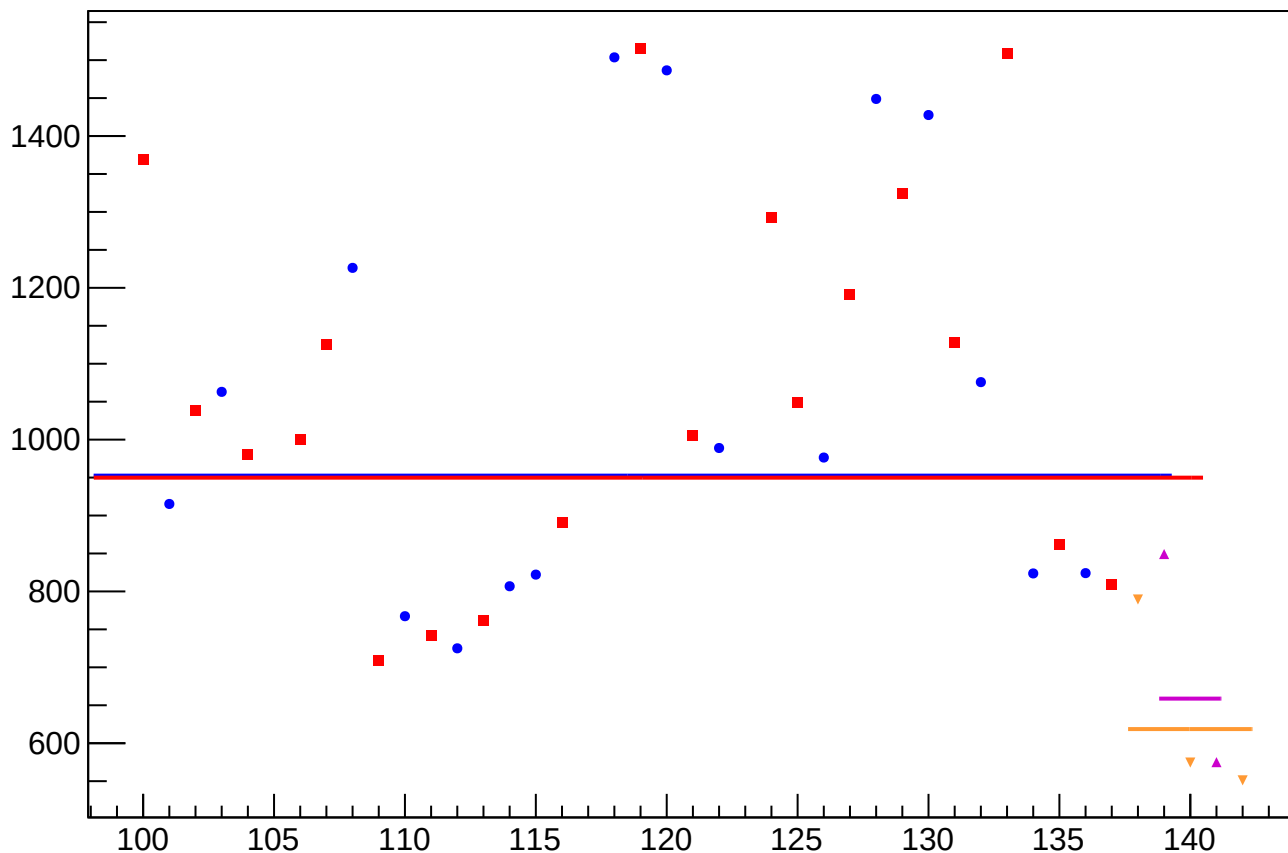
Right: 188.311+/-255.742 χ^2/NDF : 43.3/34

In: -170.269+/-297.506 χ^2/NDF : 27.3/17

Out: 448.677+/-277.304 χ^2/NDF : 23.3/21

All: 160.931+/-202.850 χ^2/NDF : 52.9/39

asym_sam_37_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 952.551+/-0.259 χ^2/NDF : 746346.9/15

Left Out: 618.640+/-0.310 χ^2/NDF : 94372.5/2

Right Out: 949.891+/-0.253 χ^2/NDF : 751675.2/18

Left In: 658.772+/-0.362 χ^2/NDF : 121721.4/1

Left: 635.635+/-0.236 χ^2/NDF : 223181.8/4

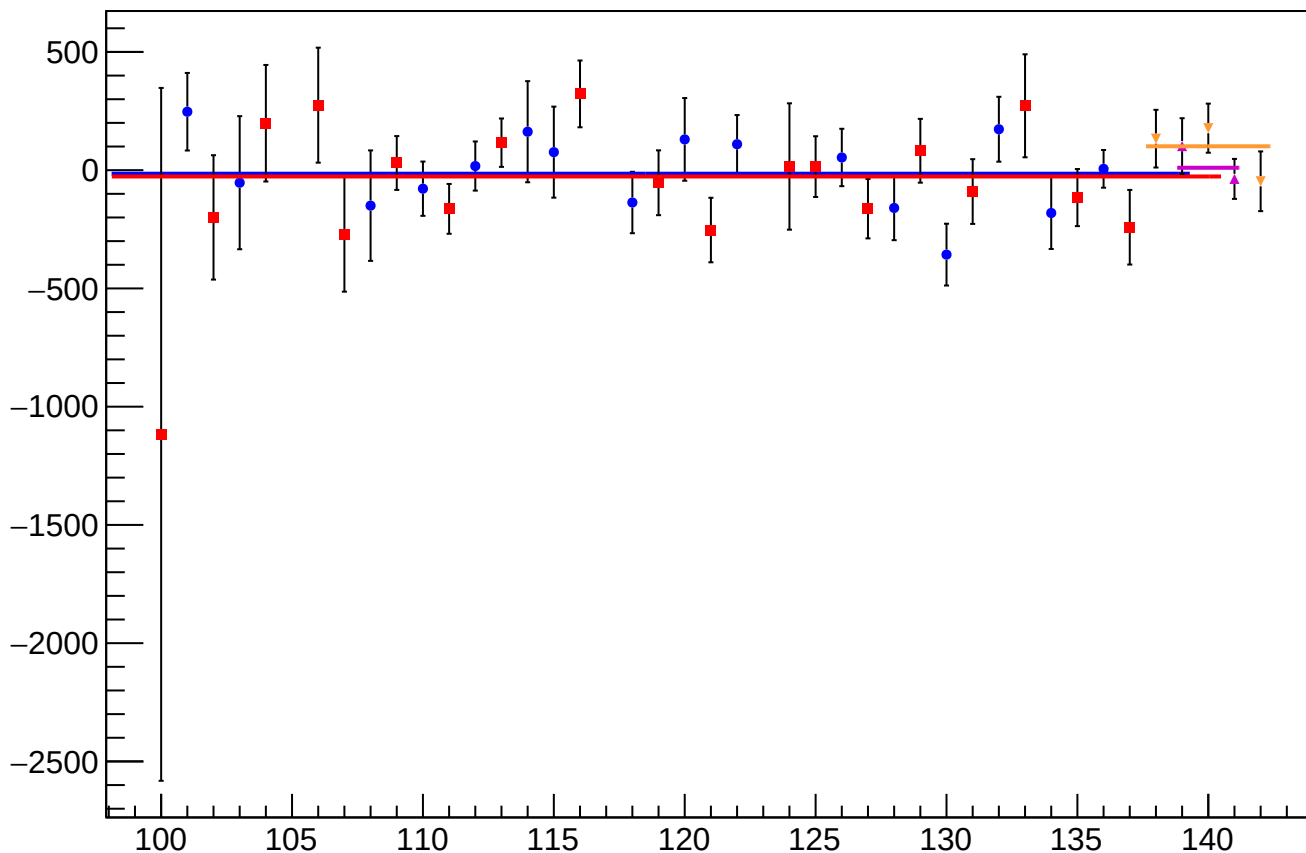
Right: 951.193+/-0.181 χ^2/NDF : 1498076.1/34

In: 853.302+/-0.210 χ^2/NDF : 1304332.6/17

Out: 817.537+/-0.196 χ^2/NDF : 1530725.6/21

All: 834.164+/-0.143 χ^2/NDF : 2850525.2/39

eigen_dit_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -14.954 ± 33.761 χ^2/NDF : 18.3/15

Left Out: 101.014 ± 66.989 χ^2/NDF : 2.0/2

Right Out: -26.658 ± 34.073 χ^2/NDF : 23.6/18

Left In: 10.235 ± 68.697 χ^2/NDF : 0.9/1

Left: 56.767 ± 47.961 χ^2/NDF : 3.8/4

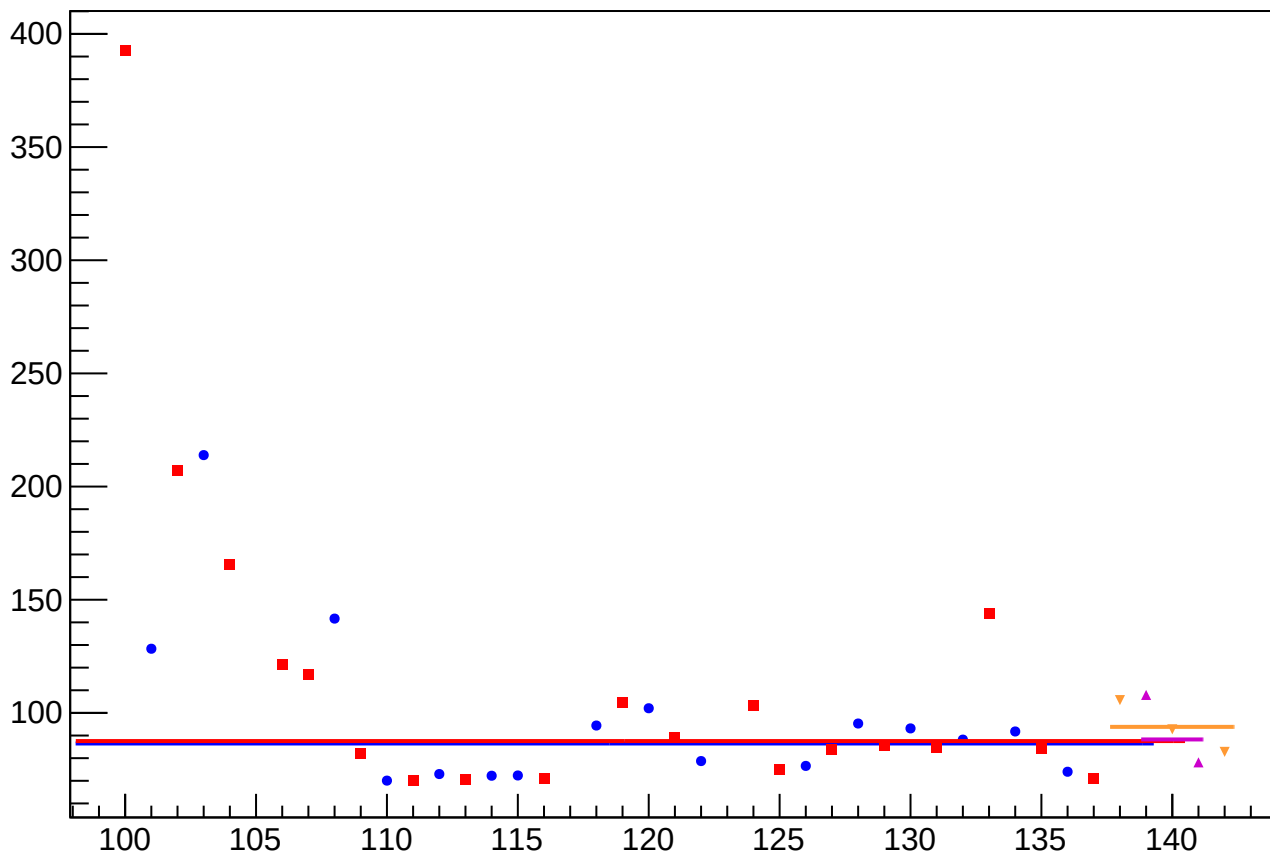
Right: -20.752 ± 23.982 χ^2/NDF : 41.9/34

In: -10.054 ± 30.300 χ^2/NDF : 19.3/17

Out: -0.416 ± 30.370 χ^2/NDF : 28.5/21

All: -5.246 ± 21.450 χ^2/NDF : 47.8/39

eigen_dit_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 86.489 $\pm$ 0.024 χ^2 /NDF: 856249.6/15

Left Out: 93.830 $\pm$ 0.047 χ^2 /NDF: 34333.3/2

Right Out: 87.555 $\pm$ 0.024 χ^2 /NDF: 1129791.7/18

Left In: 88.269 $\pm$ 0.049 χ^2 /NDF: 84354.7/1

Left: 91.119 $\pm$ 0.034 χ^2 /NDF: 125404.1/4

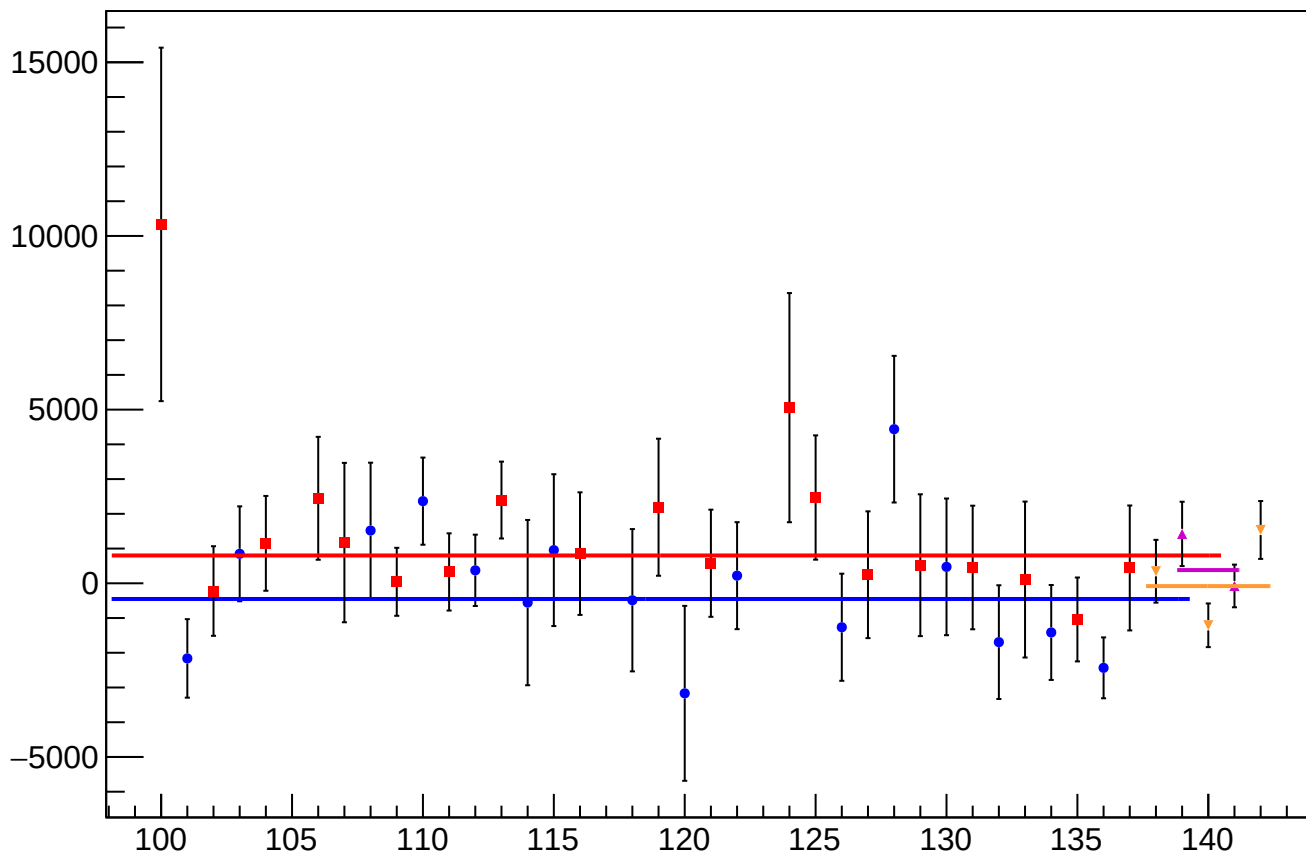
Right: 87.017 $\pm$ 0.017 χ^2 /NDF: 1987028.5/34

In: 86.836 $\pm$ 0.021 χ^2 /NDF: 941685.6/17

Out: 88.845 $\pm$ 0.021 χ^2 /NDF: 1178064.9/21

All: 87.838 $\pm$ 0.015 χ^2 /NDF: 2124136.9/39

asym_sam_37_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -451.378+/-365.605 χ^2/NDF : 23.7/15

Left Out: -81.092+/-438.697 χ^2/NDF : 7.2/2

Right Out: 801.205+/-357.865 χ^2/NDF : 13.6/18

Left In: 380.720+/-511.852 χ^2/NDF : 1.8/1

Left: 114.482+/-333.095 χ^2/NDF : 9.5/4

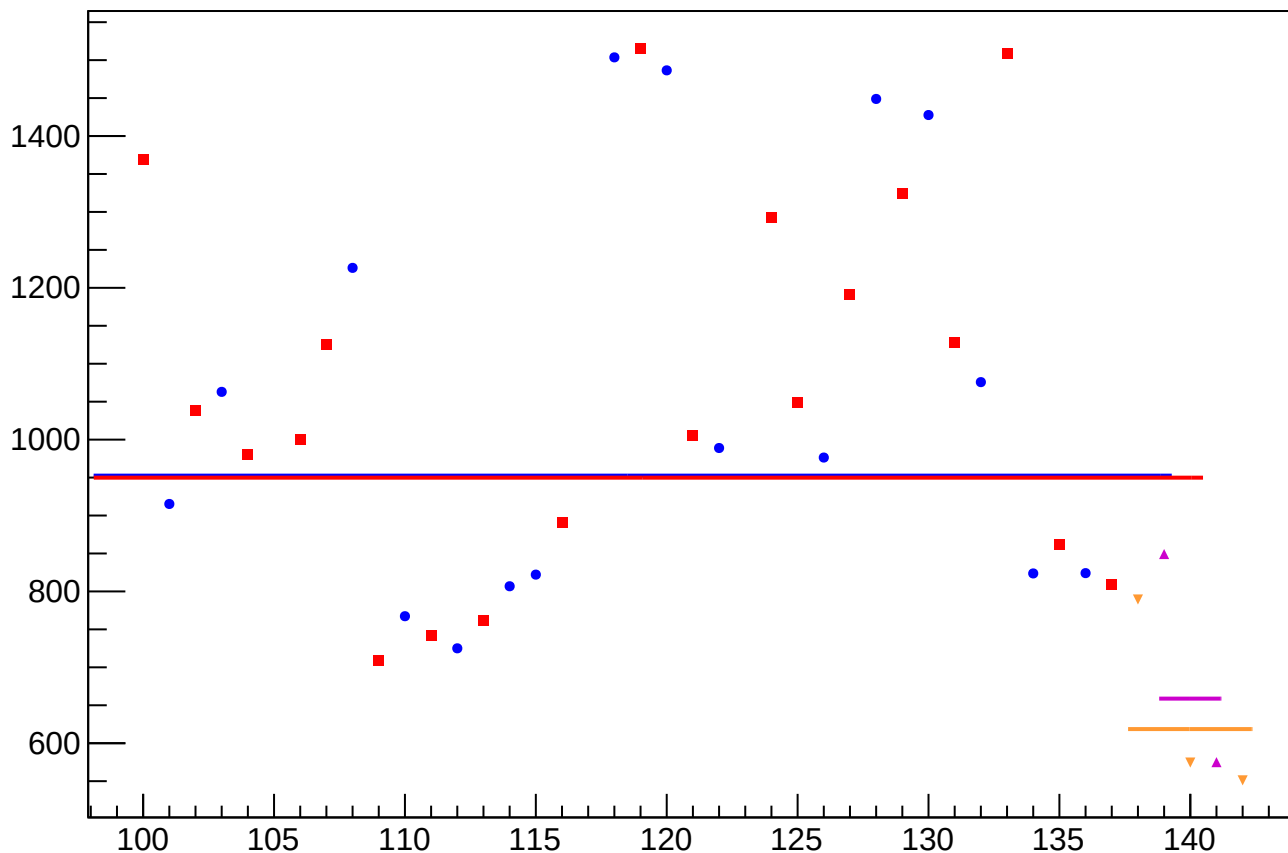
Right: 188.312+/-255.741 χ^2/NDF : 43.3/34

In: -170.268+/-297.506 χ^2/NDF : 27.3/17

Out: 448.676+/-277.303 χ^2/NDF : 23.3/21

All: 160.931+/-202.849 χ^2/NDF : 52.9/39

asym_sam_37_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 952.549+/-0.259 χ^2/NDF : 746349.8/15

Left Out: 618.640+/-0.310 χ^2/NDF : 94373.2/2

Right Out: 949.890+/-0.253 χ^2/NDF : 751674.5/18

Left In: 658.771+/-0.362 χ^2/NDF : 121722.2/1

Left: 635.635+/-0.236 χ^2/NDF : 223183.3/4

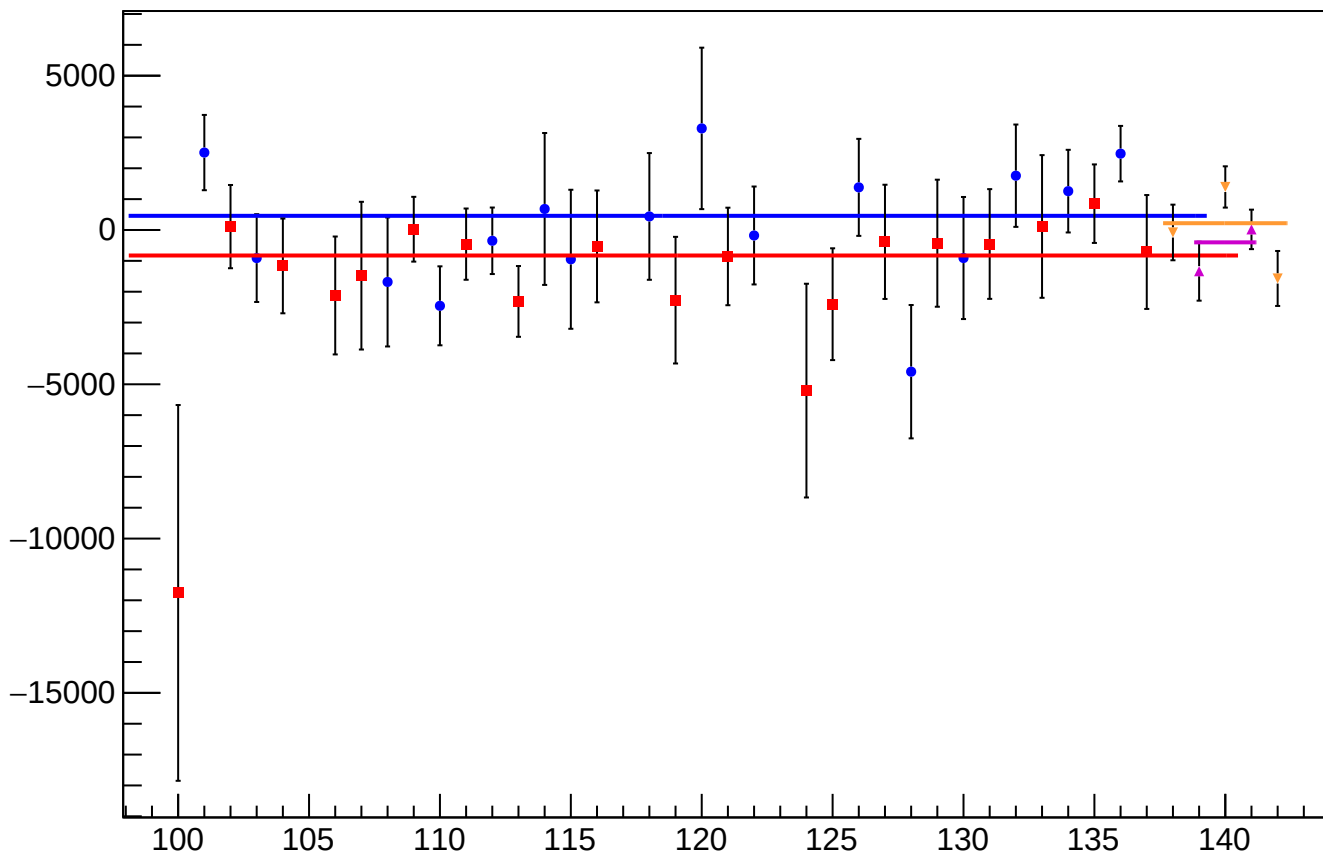
Right: 951.191+/-0.181 χ^2/NDF : 1498078.4/34

In: 853.301+/-0.210 χ^2/NDF : 1304332.8/17

Out: 817.536+/-0.196 χ^2/NDF : 1530719.4/21

All: 834.163+/-0.143 χ^2/NDF : 2850518.8/39

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 459.137 $\pm$ 376.873 χ^2 /NDF: 24.6/15

Left Out: 220.085 $\pm$ 459.967 χ^2 /NDF: 7.2/2

Right Out: -826.531 $\pm$ 374.244 χ^2 /NDF: 11.7/18

Left In: -400.506 $\pm$ 531.475 χ^2 /NDF: 1.4/1

Left: -45.682 $\pm$ 347.801 χ^2 /NDF: 9.4/4

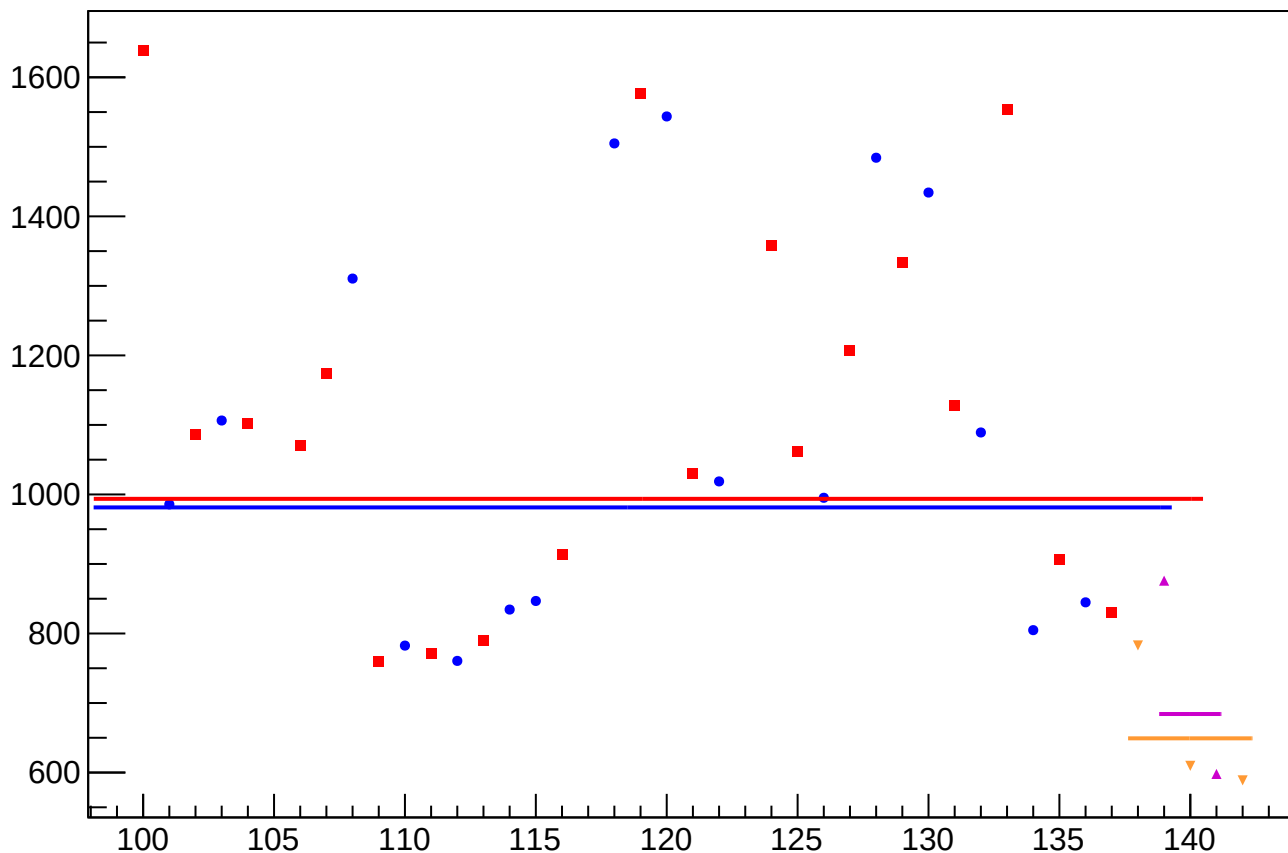
Right: -188.198 $\pm$ 265.555 χ^2 /NDF: 42.1/34

In: 171.508 $\pm$ 307.425 χ^2 /NDF: 27.7/17

Out: -409.649 $\pm$ 290.295 χ^2 /NDF: 22.0/21

All: -135.713 $\pm$ 211.066 χ^2 /NDF: 51.6/39

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 981.349+/-0.266 χ^2/NDF : 737627.4/15

Left Out: 649.189+/-0.325 χ^2/NDF : 60156.9/2

Right Out: 993.684+/-0.265 χ^2/NDF : 719799.0/18

Left In: 684.186+/-0.376 χ^2/NDF : 117040.7/1

Left: 664.176+/-0.246 χ^2/NDF : 182155.9/4

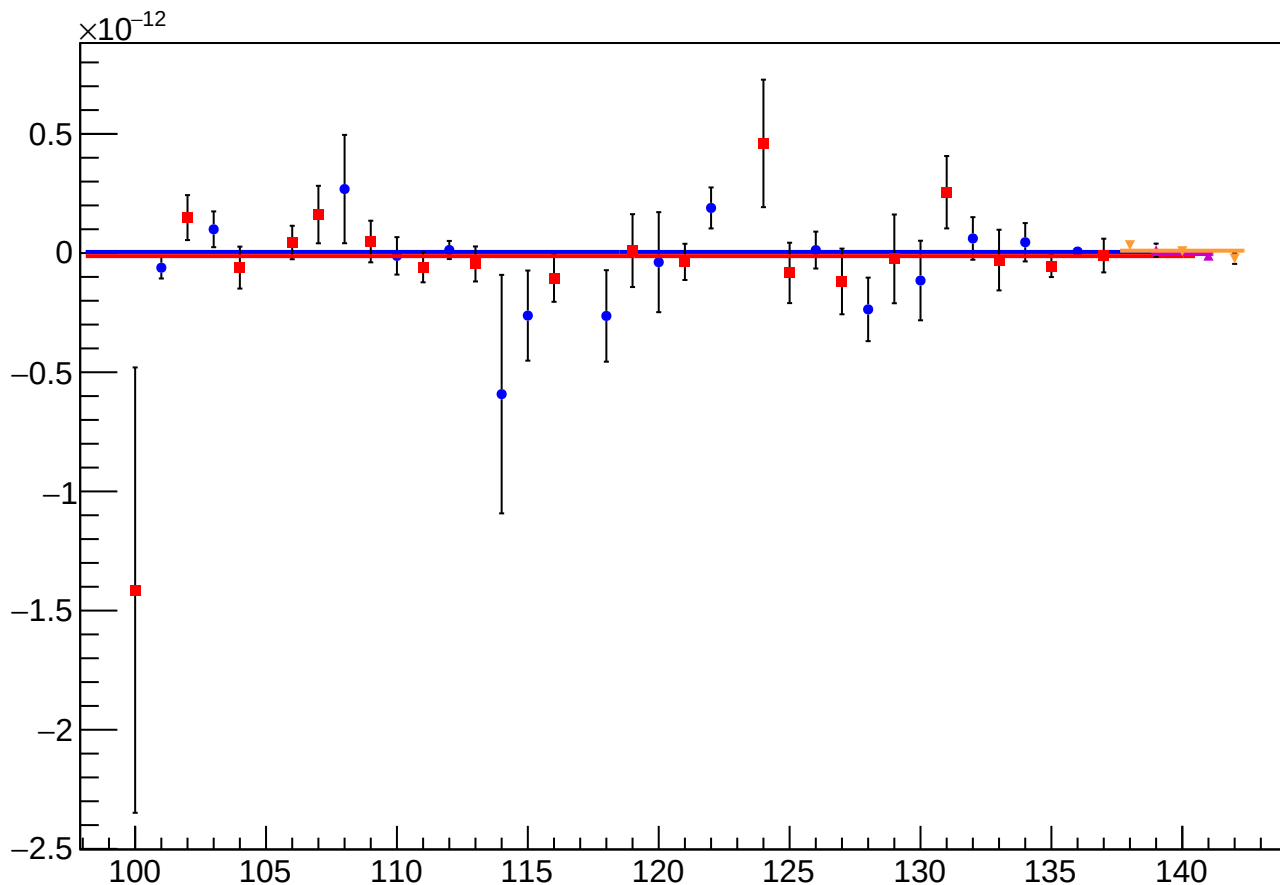
Right: 987.560+/-0.188 χ^2/NDF : 1458505.1/34

In: 881.921+/-0.217 χ^2/NDF : 1270715.7/17

Out: 856.467+/-0.205 χ^2/NDF : 1454969.3/21

All: 868.465+/-0.149 χ^2/NDF : 2732933.0/39

asym_sam_37_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3.8/2

Right Out: -0.000+/-0.000 χ^2/NDF : 18.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.5/1

Left: 0.000+/-0.000 χ^2/NDF : 4.9/4

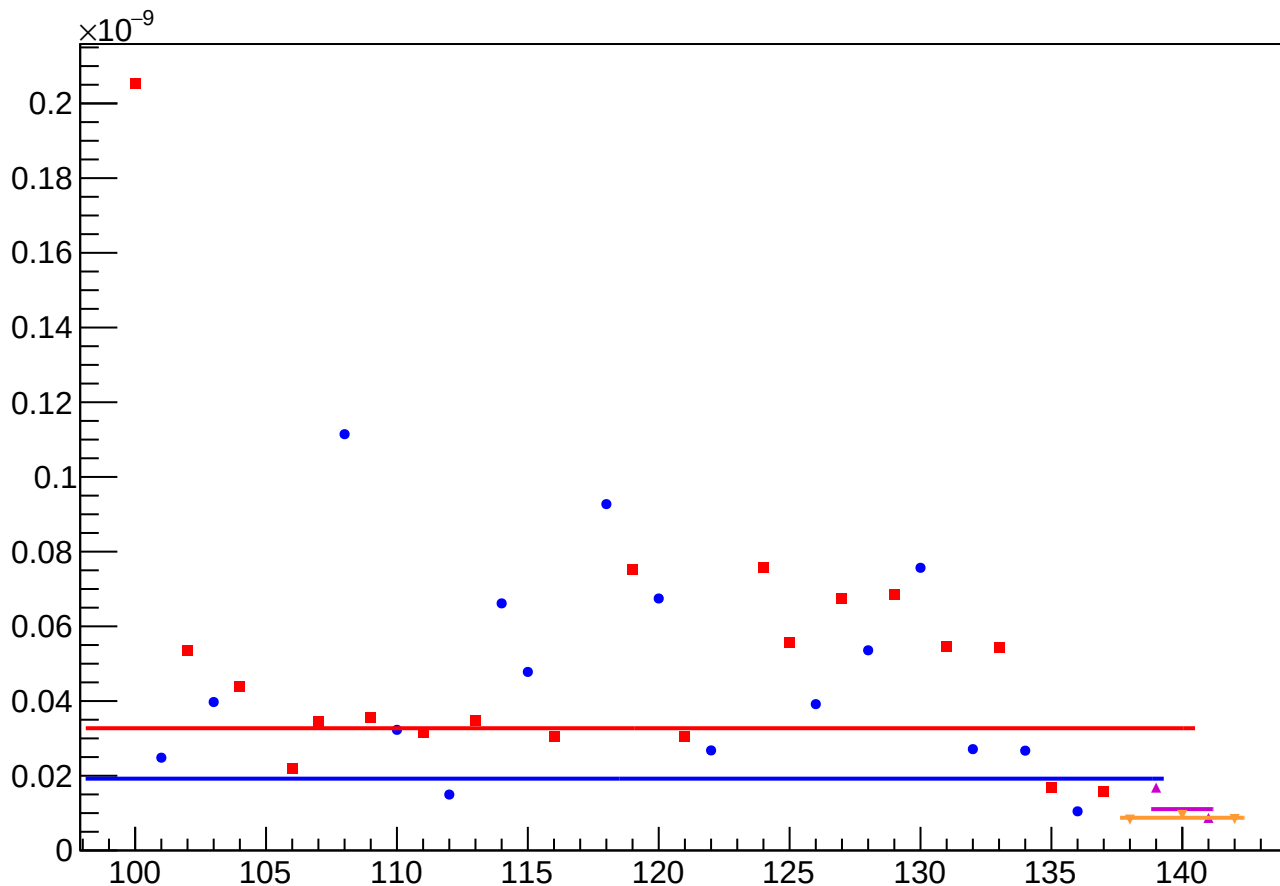
Right: -0.000+/-0.000 χ^2/NDF : 38.6/34

In: 0.000+/-0.000 χ^2/NDF : 20.3/17

Out: 0.000+/-0.000 χ^2/NDF : 23.2/21

All: 0.000+/-0.000 χ^2/NDF : 43.6/39

asym_sam_37_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1977908.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 5463.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1181327.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 122096.5/1

Left: 0.000+/-0.000 χ^2/NDF : 158859.3/4

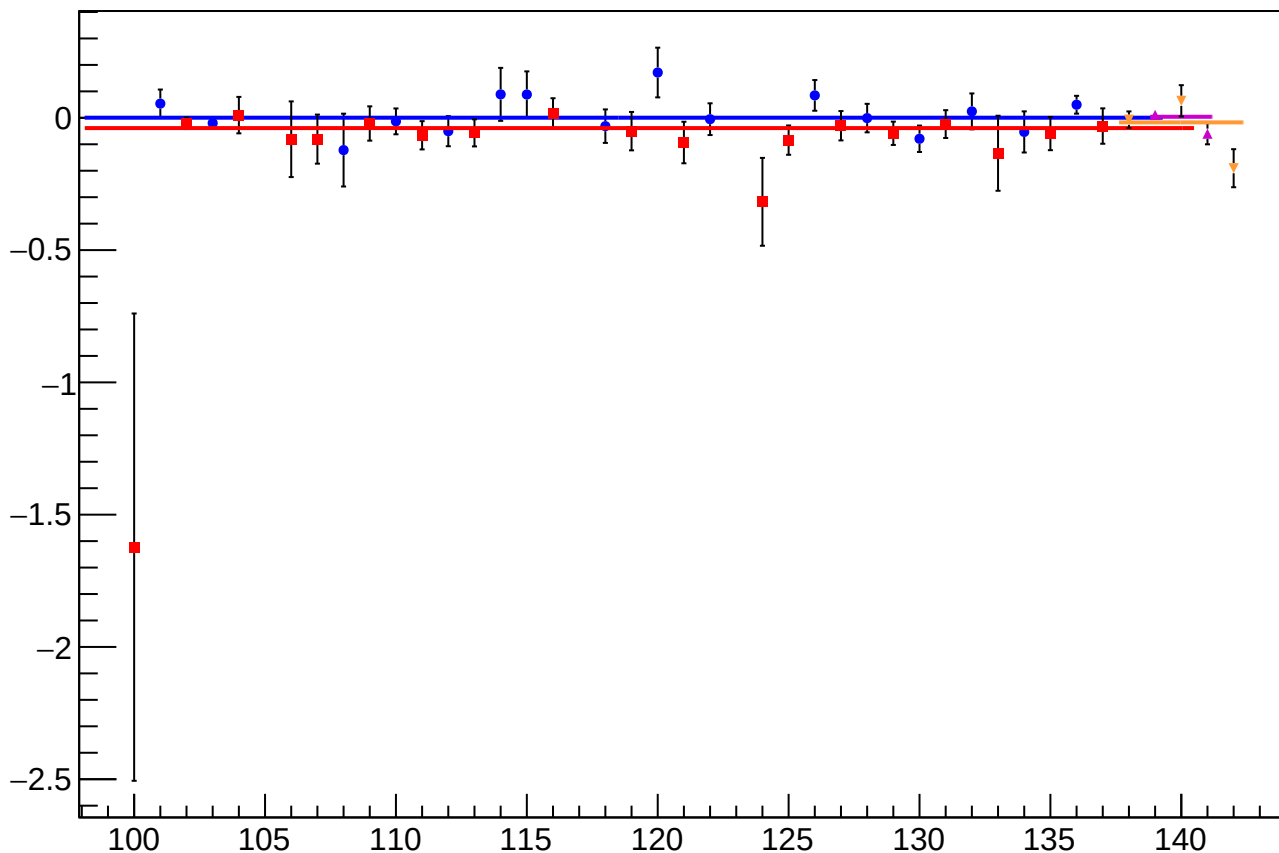
Right: 0.000+/-0.000 χ^2/NDF : 3729954.2/34

In: 0.000+/-0.000 χ^2/NDF : 2408701.9/17

Out: 0.000+/-0.000 χ^2/NDF : 3265793.4/21

All: 0.000+/-0.000 χ^2/NDF : 5688780.4/39

asym_sam_37_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.012 $\chi^2/\text{NDF}: 16.5/15$

Left Out: -0.017 ± 0.026 $\chi^2/\text{NDF}: 7.8/2$

Right Out: -0.039 ± 0.013 $\chi^2/\text{NDF}: 11.1/18$

Left In: 0.004 ± 0.013 $\chi^2/\text{NDF}: 2.8/1$

Left: -0.000 ± 0.011 $\chi^2/\text{NDF}: 11.2/4$

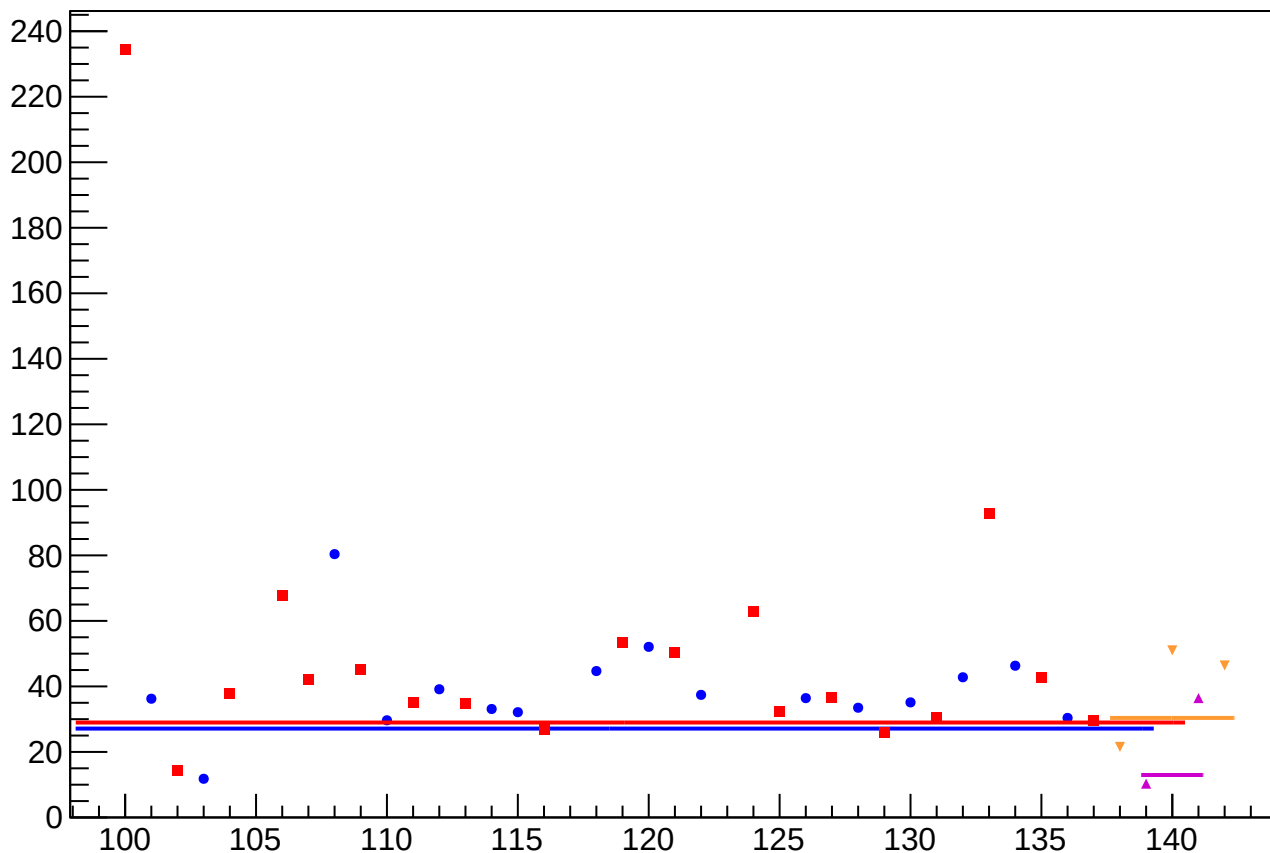
Right: -0.018 ± 0.009 $\chi^2/\text{NDF}: 32.6/34$

In: 0.002 ± 0.009 $\chi^2/\text{NDF}: 19.4/17$

Out: -0.035 ± 0.011 $\chi^2/\text{NDF}: 19.4/21$

All: -0.012 ± 0.007 $\chi^2/\text{NDF}: 45.4/39$

asym_sam_37_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.128+/-0.009 χ^2/NDF : 2415316.1/15

Left Out: 30.383+/-0.018 χ^2/NDF : 500728.8/2

Right Out: 28.979+/-0.009 χ^2/NDF : 2456254.0/18

Left In: 12.961+/-0.009 χ^2/NDF : 763978.4/1

Left: 16.359+/-0.008 χ^2/NDF : 1994804.9/4

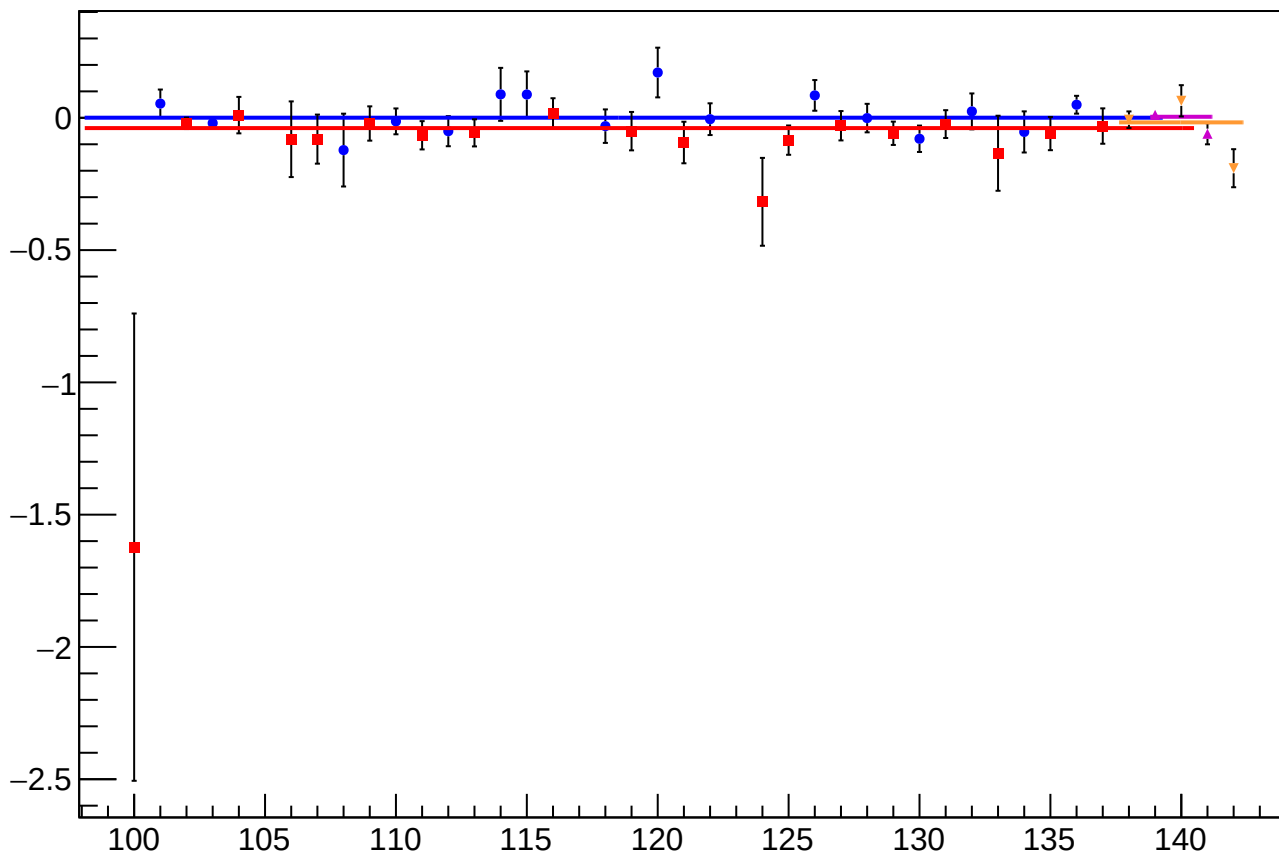
Right: 28.008+/-0.006 χ^2/NDF : 4894073.5/34

In: 20.445+/-0.006 χ^2/NDF : 4487081.7/17

Out: 29.249+/-0.008 χ^2/NDF : 2961741.0/21

All: 23.724+/-0.005 χ^2/NDF : 8203556.0/39

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.012 $\chi^2/\text{NDF}: 16.5/15$

Left Out: -0.017 ± 0.026 $\chi^2/\text{NDF}: 7.8/2$

Right Out: -0.039 ± 0.013 $\chi^2/\text{NDF}: 11.1/18$

Left In: 0.004 ± 0.013 $\chi^2/\text{NDF}: 2.8/1$

Left: -0.000 ± 0.011 $\chi^2/\text{NDF}: 11.2/4$

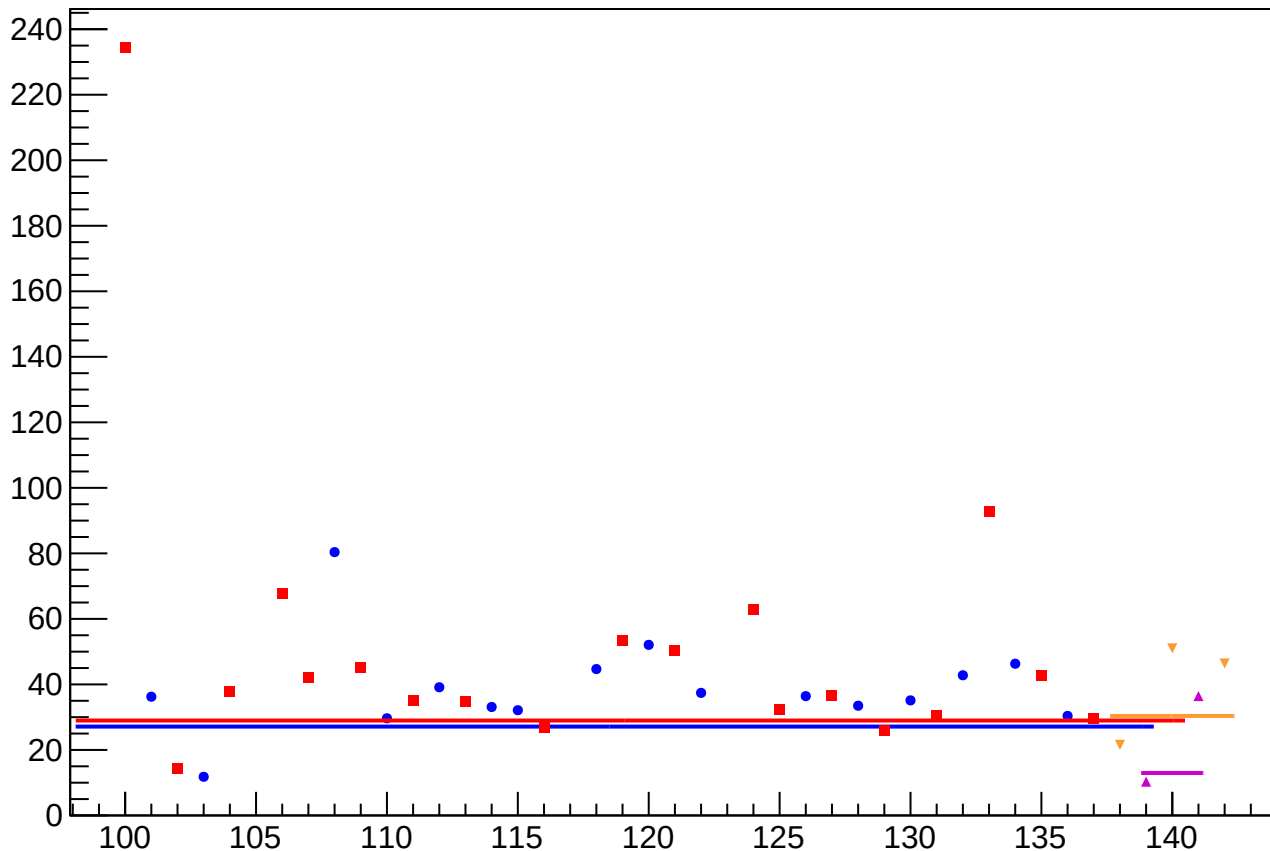
Right: -0.018 ± 0.009 $\chi^2/\text{NDF}: 32.6/34$

In: 0.002 ± 0.009 $\chi^2/\text{NDF}: 19.4/17$

Out: -0.035 ± 0.011 $\chi^2/\text{NDF}: 19.4/21$

All: -0.012 ± 0.007 $\chi^2/\text{NDF}: 45.4/39$

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.128+/-0.009 χ^2/NDF : 2415316.1/15

Left Out: 30.383+/-0.018 χ^2/NDF : 500728.8/2

Right Out: 28.979+/-0.009 χ^2/NDF : 2456254.0/18

Left In: 12.961+/-0.009 χ^2/NDF : 763978.4/1

Left: 16.359+/-0.008 χ^2/NDF : 1994804.9/4

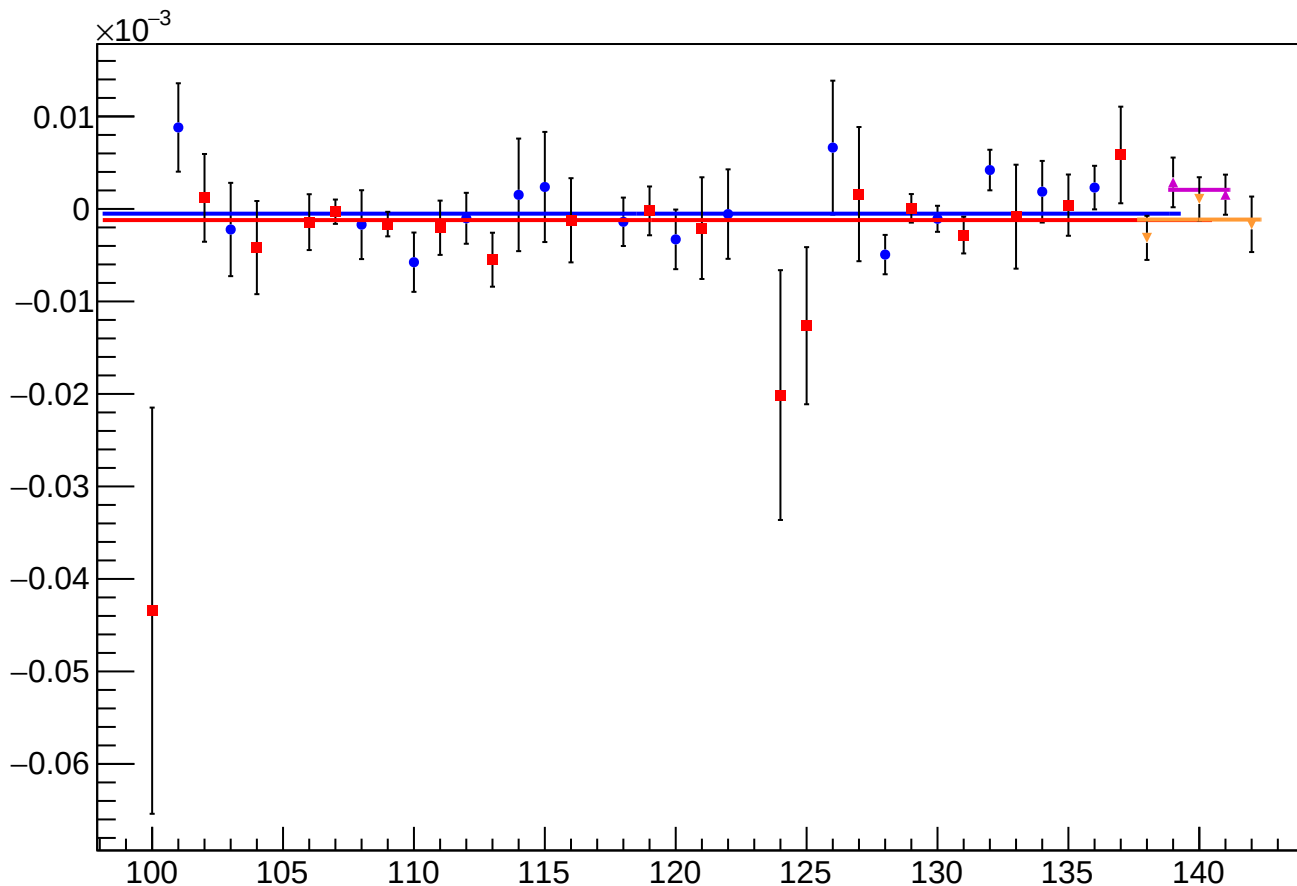
Right: 28.008+/-0.006 χ^2/NDF : 4894073.5/34

In: 20.445+/-0.006 χ^2/NDF : 4487081.7/17

Out: 29.249+/-0.008 χ^2/NDF : 2961741.0/21

All: 23.724+/-0.005 χ^2/NDF : 8203556.0/39

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 20.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.6/2

Right Out: -0.000+/-0.000 χ^2/NDF : 14.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.1/1

Left: 0.000+/-0.000 χ^2/NDF : 3.8/4

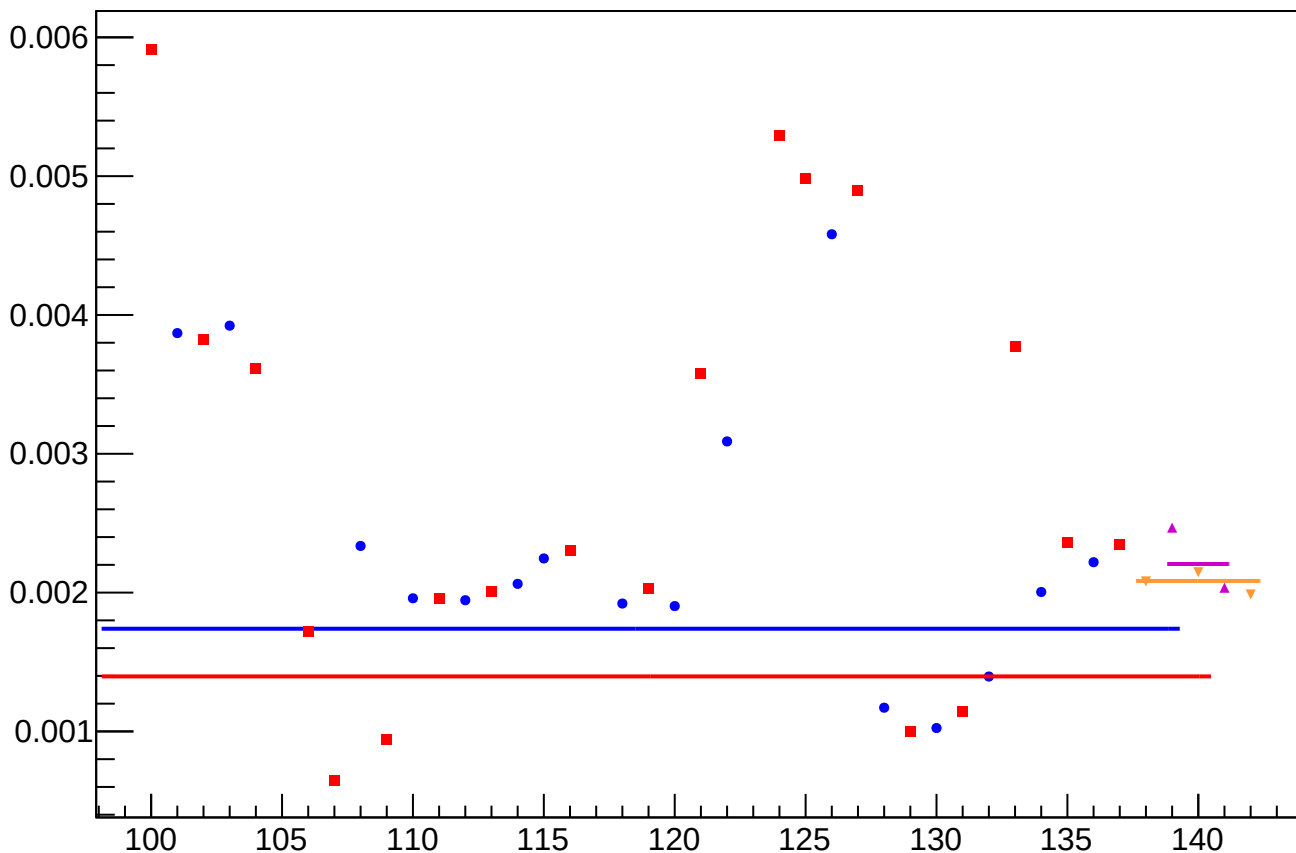
Right: -0.000+/-0.000 χ^2/NDF : 35.1/34

In: -0.000+/-0.000 χ^2/NDF : 22.1/17

Out: -0.000+/-0.000 χ^2/NDF : 16.2/21

All: -0.000+/-0.000 χ^2/NDF : 39.9/39

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2146798.7/15

Left Out: 0.002+/-0.000 χ^2/NDF :3525.1/2

Right Out: 0.001+/-0.000 χ^2/NDF : 4323193.2/18

Left In: 0.002+/-0.000 χ^2/NDF :31460.8/1

Left: 0.002+/-0.000 χ^2/NDF : 40983.4/4

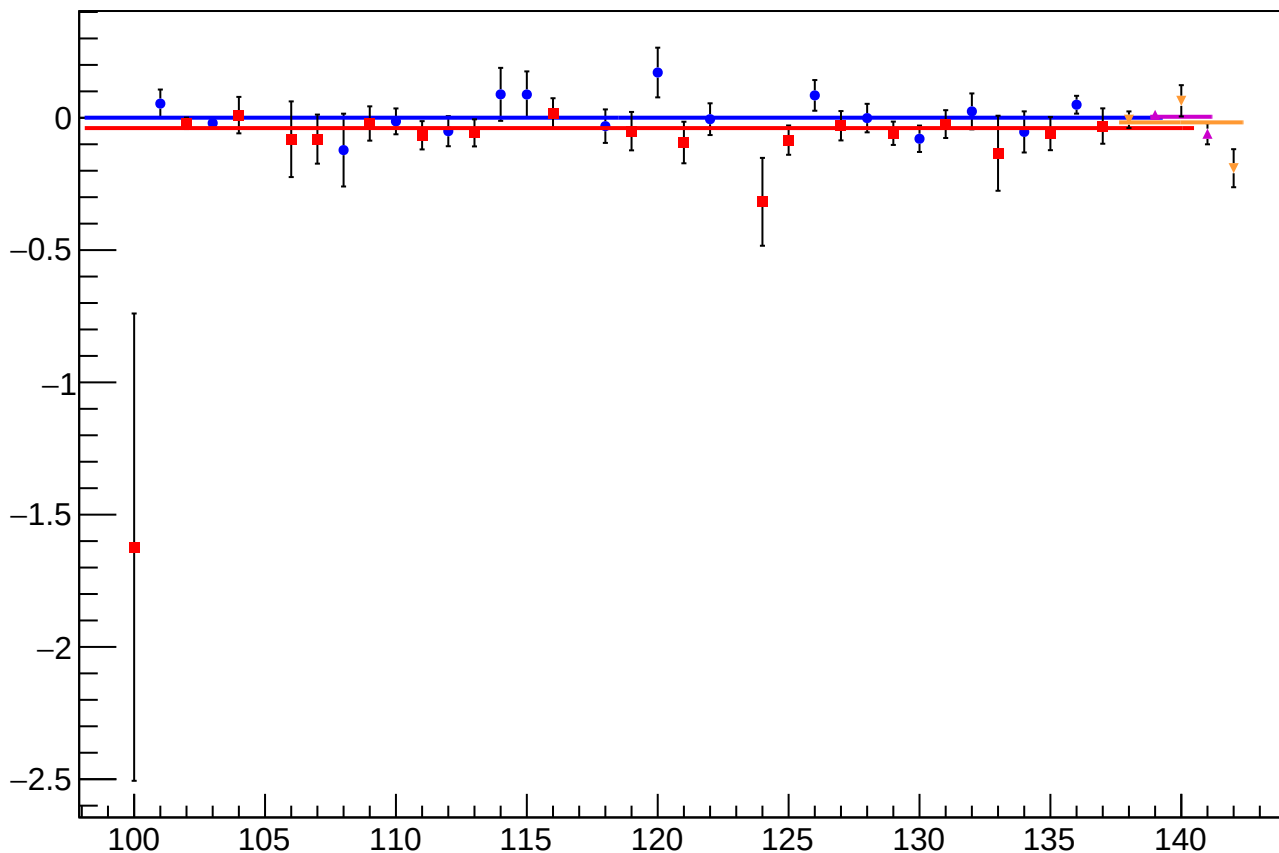
Right: 0.002+/-0.000 χ^2/NDF : 6735676.7/34

In: 0.002+/-0.000 χ^2/NDF :2307776.7/17

Out: 0.001+/-0.000 χ^2/NDF :4703939.5/21

All: 0.002+/-0.000 χ^2/NDF : 7270203.3/39

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.012 χ^2 /NDF: 16.5/15

Left Out: -0.017 $\pm$ 0.026 χ^2 /NDF: 7.8/2

Right Out: -0.039 $\pm$ 0.013 χ^2 /NDF: 11.1/18

Left In: 0.004 $\pm$ 0.013 χ^2 /NDF: 2.8/1

Left: -0.000 $\pm$ 0.011 χ^2 /NDF: 11.2/4

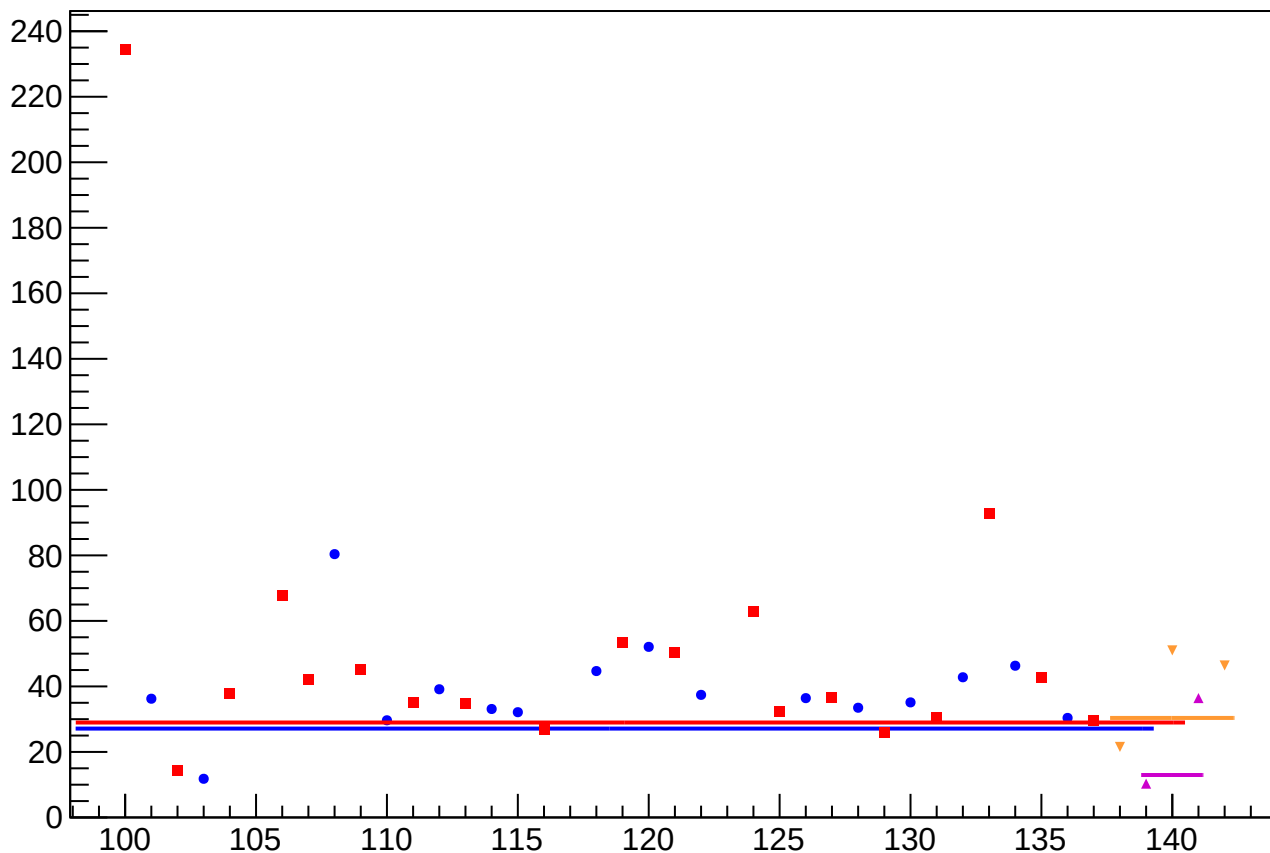
Right: -0.018 $\pm$ 0.009 χ^2 /NDF: 32.6/34

In: 0.002 $\pm$ 0.009 χ^2 /NDF: 19.4/17

Out: -0.035 $\pm$ 0.011 χ^2 /NDF: 19.4/21

All: -0.012 $\pm$ 0.007 χ^2 /NDF: 45.4/39

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.127+/-0.009 χ^2/NDF : 2415651.3/15

Left Out: 30.380+/-0.018 χ^2/NDF : 500897.1/2

Right Out: 28.982+/-0.009 χ^2/NDF : 2455659.1/18

Left In: 12.960+/-0.009 χ^2/NDF : 764071.4/1

Left: 16.357+/-0.008 χ^2/NDF : 1994998.2/4

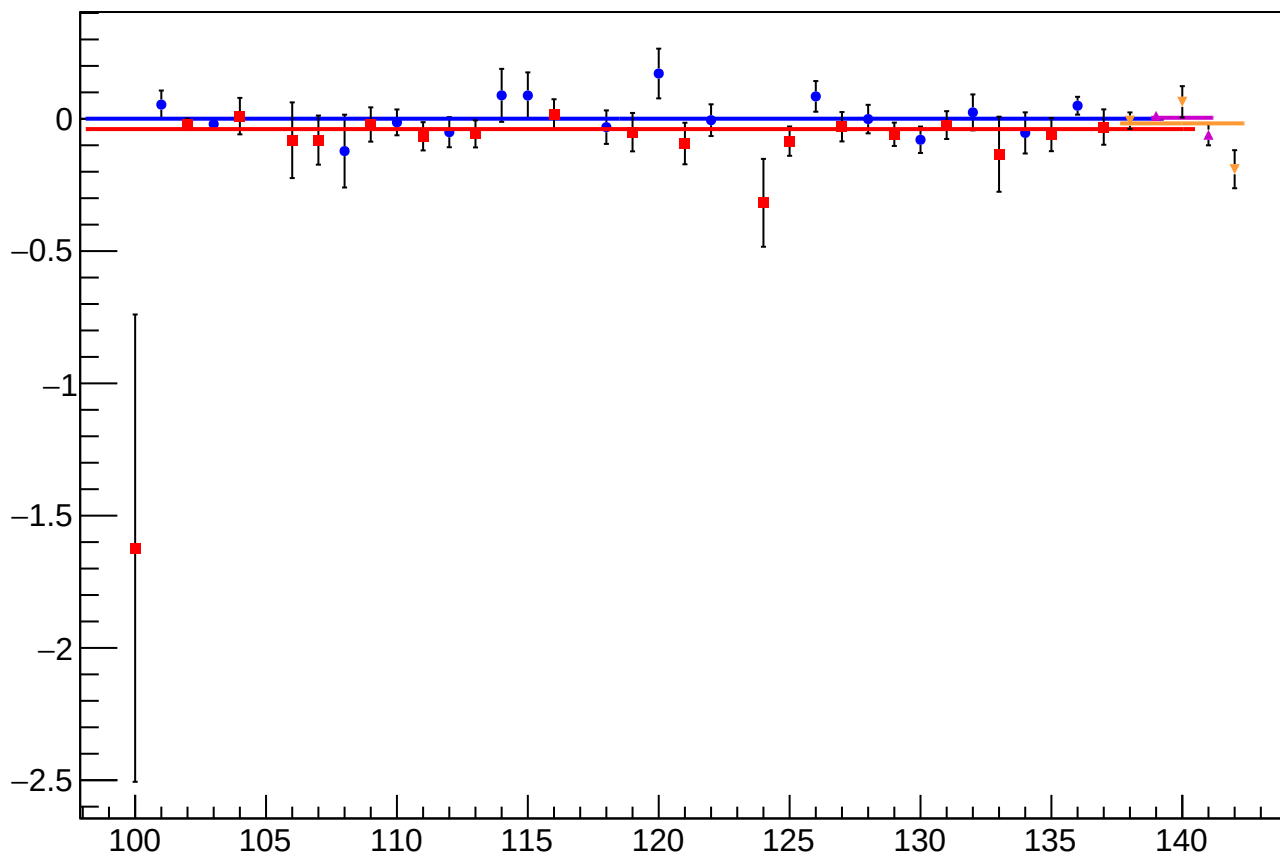
Right: 28.009+/-0.006 χ^2/NDF : 4893896.0/34

In: 20.443+/-0.006 χ^2/NDF : 4487778.5/17

Out: 29.251+/-0.008 χ^2/NDF : 2961272.1/21

All: 23.723+/-0.005 χ^2/NDF : 8204328.5/39

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.012 $\chi^2/\text{NDF}: 16.5/15$

Left Out: -0.017 ± 0.026 $\chi^2/\text{NDF}: 7.8/2$

Right Out: -0.039 ± 0.013 $\chi^2/\text{NDF}: 11.1/18$

Left In: 0.004 ± 0.013 $\chi^2/\text{NDF}: 2.8/1$

Left: -0.000 ± 0.011 $\chi^2/\text{NDF}: 11.2/4$

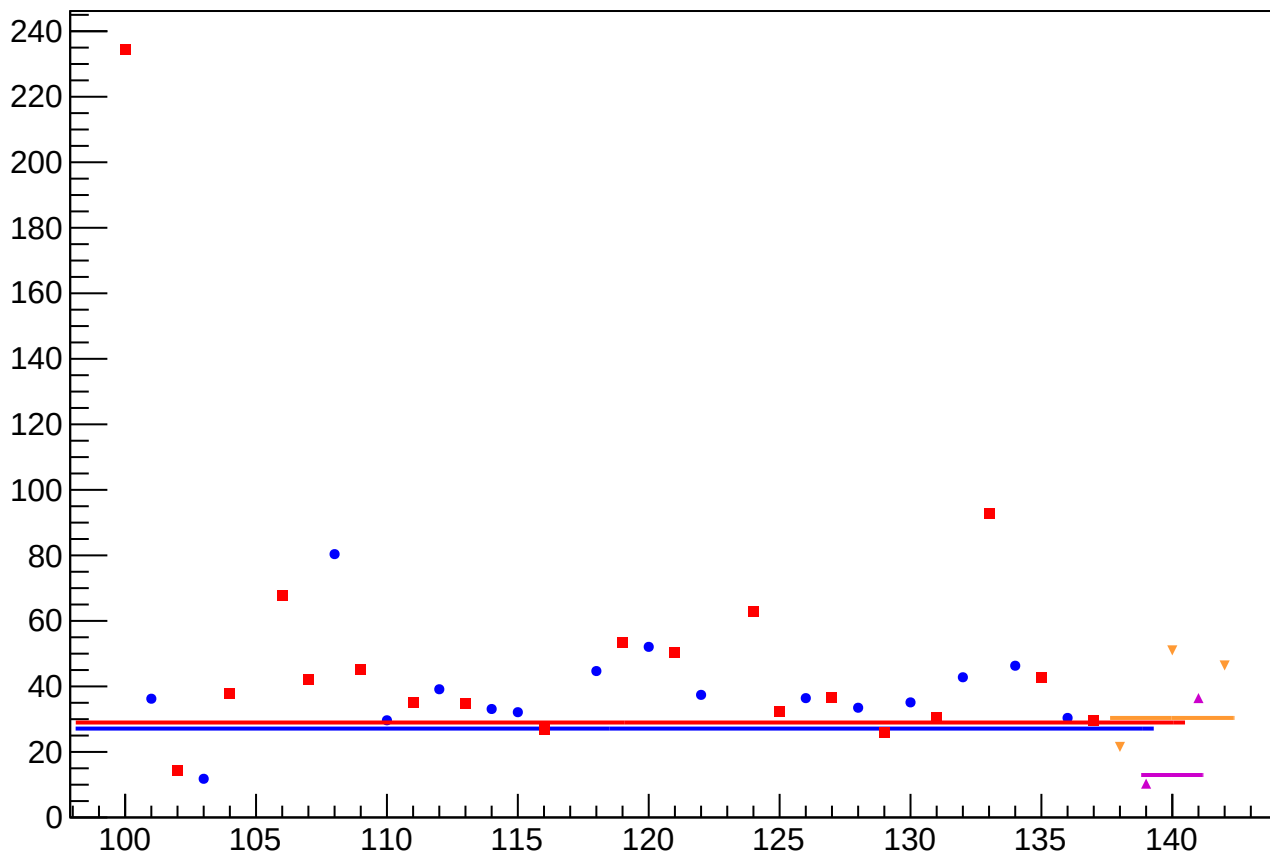
Right: -0.018 ± 0.009 $\chi^2/\text{NDF}: 32.6/34$

In: 0.002 ± 0.009 $\chi^2/\text{NDF}: 19.4/17$

Out: -0.035 ± 0.011 $\chi^2/\text{NDF}: 19.4/21$

All: -0.012 ± 0.007 $\chi^2/\text{NDF}: 45.4/39$

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.127+/-0.009 χ^2/NDF : 2415651.3/15

Left Out: 30.380+/-0.018 χ^2/NDF : 500897.1/2

Right Out: 28.982+/-0.009 χ^2/NDF : 2455659.1/18

Left In: 12.960+/-0.009 χ^2/NDF : 764071.4/1

Left: 16.357+/-0.008 χ^2/NDF : 1994998.2/4

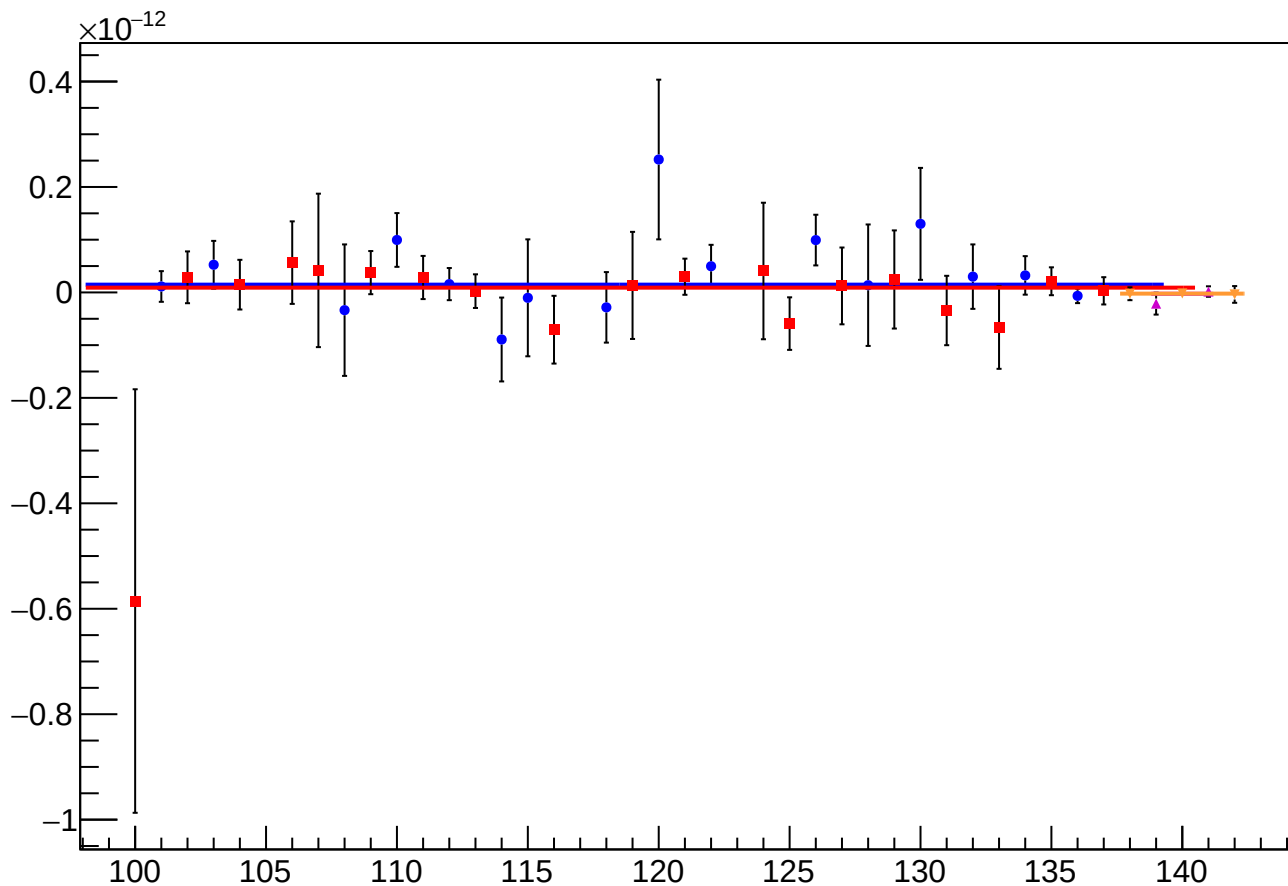
Right: 28.009+/-0.006 χ^2/NDF : 4893896.0/34

In: 20.443+/-0.006 χ^2/NDF : 4487778.5/17

Out: 29.251+/-0.008 χ^2/NDF : 2961272.1/21

All: 23.723+/-0.005 χ^2/NDF : 8204328.5/39

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 15.9/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:0.0/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 9.0/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:1.0/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 1.0/4

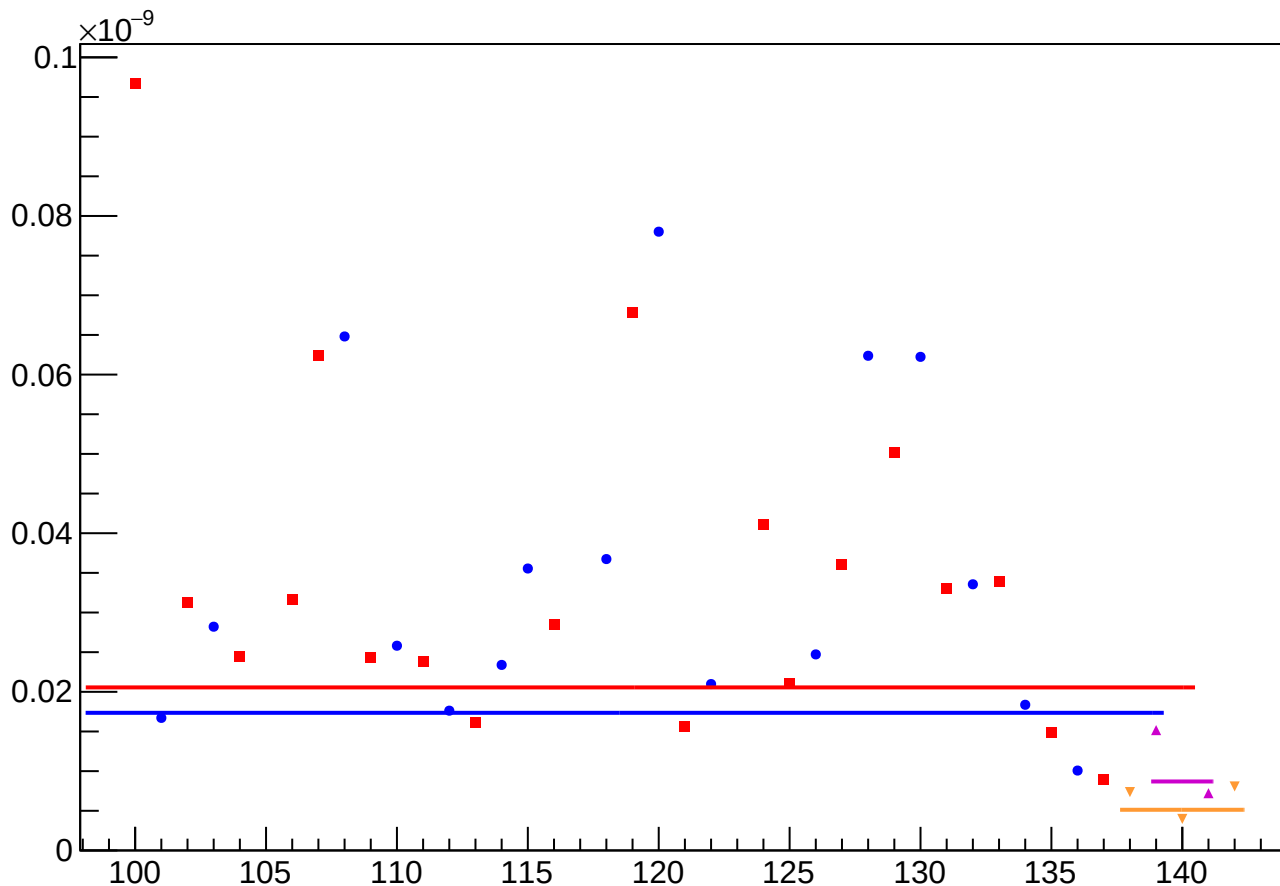
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 25.1/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:18.7/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:9.9/21

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 29.1/39

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2442014.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :197637.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1925673.6/18

Left In: 0.000+/-0.000 χ^2/NDF :237945.8/1

Left: 0.000+/-0.000 χ^2/NDF : 667453.8/4

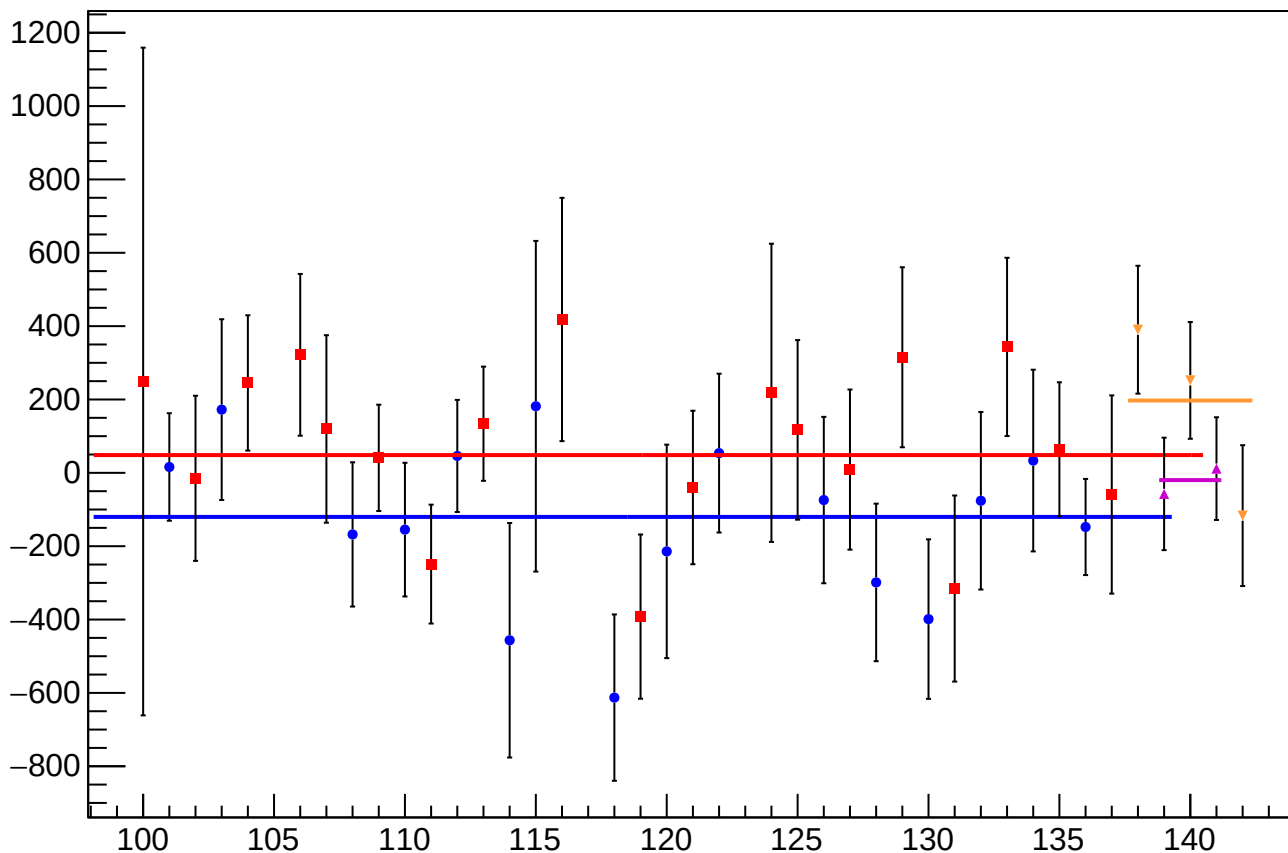
Right: 0.000+/-0.000 χ^2/NDF : 4467051.7/34

In: 0.000+/-0.000 χ^2/NDF :3563273.1/17

Out: 0.000+/-0.000 χ^2/NDF :5369808.8/21

All: 0.000+/-0.000 χ^2/NDF : 9568041.6/39

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -120.159 $\pm$ 51.103 χ^2 /NDF: 13.4/15

Left Out: 197.265 $\pm$ 100.248 χ^2 /NDF: 4.0/2

Right Out: 48.449 $\pm$ 49.910 χ^2 /NDF: 17.0/18

Left In: -19.801 $\pm$ 103.383 χ^2 /NDF: 0.1/1

Left: 92.072 $\pm$ 71.969 χ^2 /NDF: 6.4/4

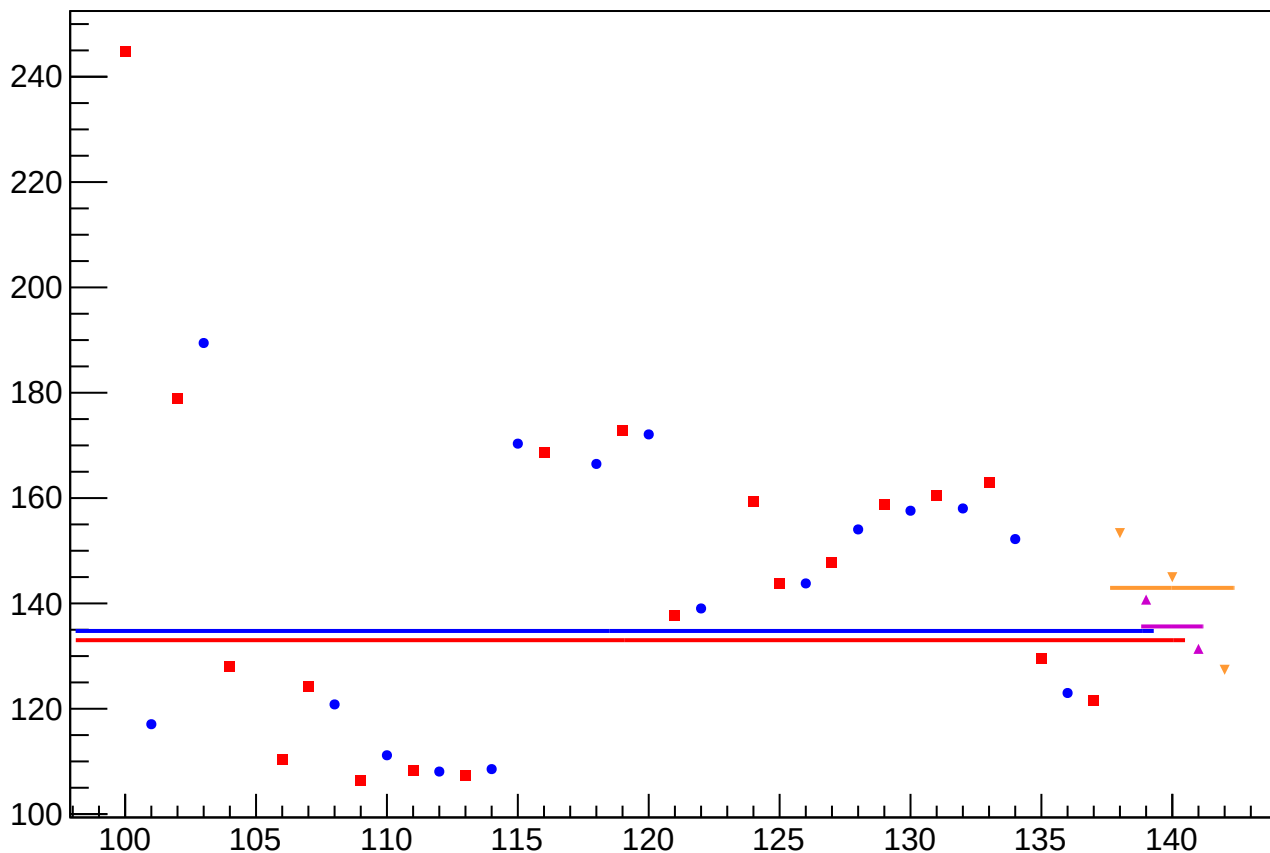
Right: -33.863 $\pm$ 35.706 χ^2 /NDF: 36.0/34

In: -100.452 $\pm$ 45.812 χ^2 /NDF: 14.3/17

Out: 78.008 $\pm$ 44.679 χ^2 /NDF: 22.8/21

All: -8.988 $\pm$ 31.986 χ^2 /NDF: 44.8/39

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 134.771 $\pm$ 0.036 χ^2/NDF : 416778.7/15

Left Out: 142.952 $\pm$ 0.071 χ^2/NDF : 20561.0/2

Right Out: 133.019 $\pm$ 0.035 χ^2/NDF : 495717.0/18

Left In: 135.628 $\pm$ 0.073 χ^2/NDF : 4053.0/1

Left: 139.403 $\pm$ 0.051 χ^2/NDF : 29787.0/4

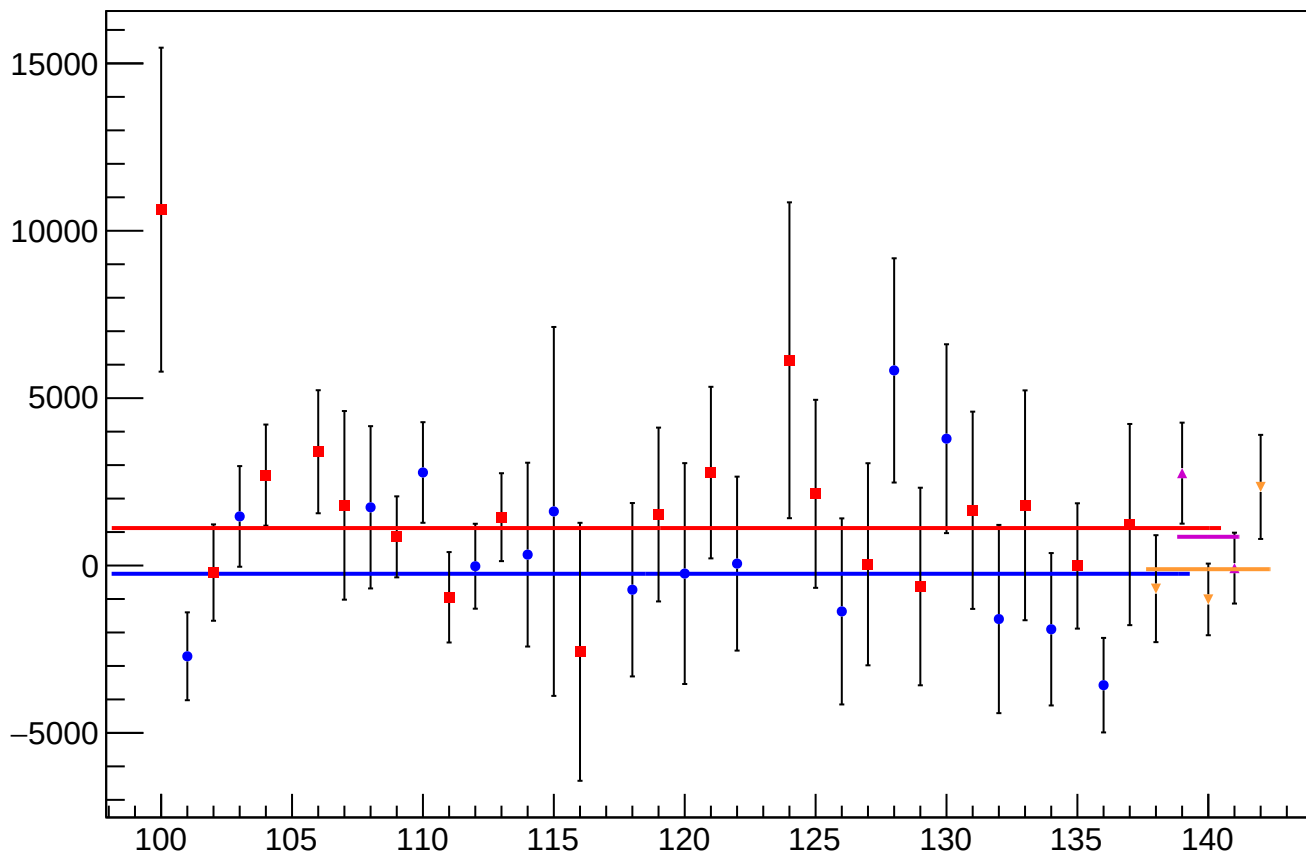
Right: 133.875 $\pm$ 0.025 χ^2/NDF : 913698.6/34

In: 134.940 $\pm$ 0.032 χ^2/NDF : 420942.3/17

Out: 134.992 $\pm$ 0.032 χ^2/NDF : 532012.9/21

All: 134.967 $\pm$ 0.023 χ^2/NDF : 952956.6/39

asym_sam_48_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -246.357 ± 501.413 χ^2/NDF : 21.6/15

Left Out: -109.253 ± 771.771 χ^2/NDF : 3.3/2

Right Out: 1119.420 ± 468.400 χ^2/NDF : 13.4/18

Left In: 858.638 ± 866.658 χ^2/NDF : 2.4/1

Left: 318.826 ± 576.364 χ^2/NDF : 6.4/4

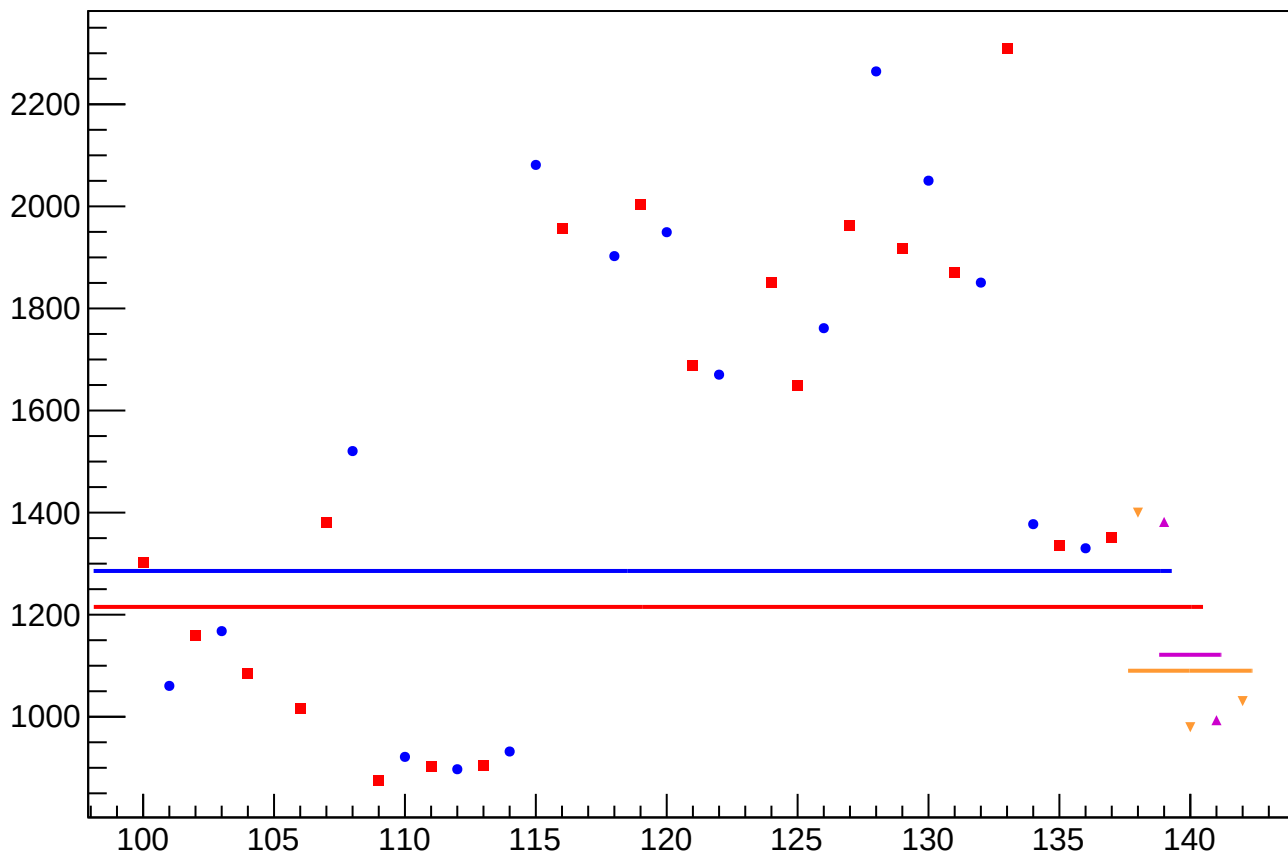
Right: 482.970 ± 342.285 χ^2/NDF : 39.0/34

In: 30.759 ± 434.009 χ^2/NDF : 25.2/17

Out: 788.673 ± 400.423 χ^2/NDF : 18.6/21

All: 440.173 ± 294.300 χ^2/NDF : 45.4/39

asym_sam_48_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1285.668 $\pm$ 0.355 χ^2/NDF : 1170437.4/15

Left Out: 1090.211 $\pm$ 0.546 χ^2/NDF : 99490.0/2

Right Out: 1215.237 $\pm$ 0.331 χ^2/NDF : 1386290.4/18

Left In: 1121.452 $\pm$ 0.613 χ^2/NDF : 88815.1/1

Left: 1104.028 $\pm$ 0.408 χ^2/NDF : 189754.5/4

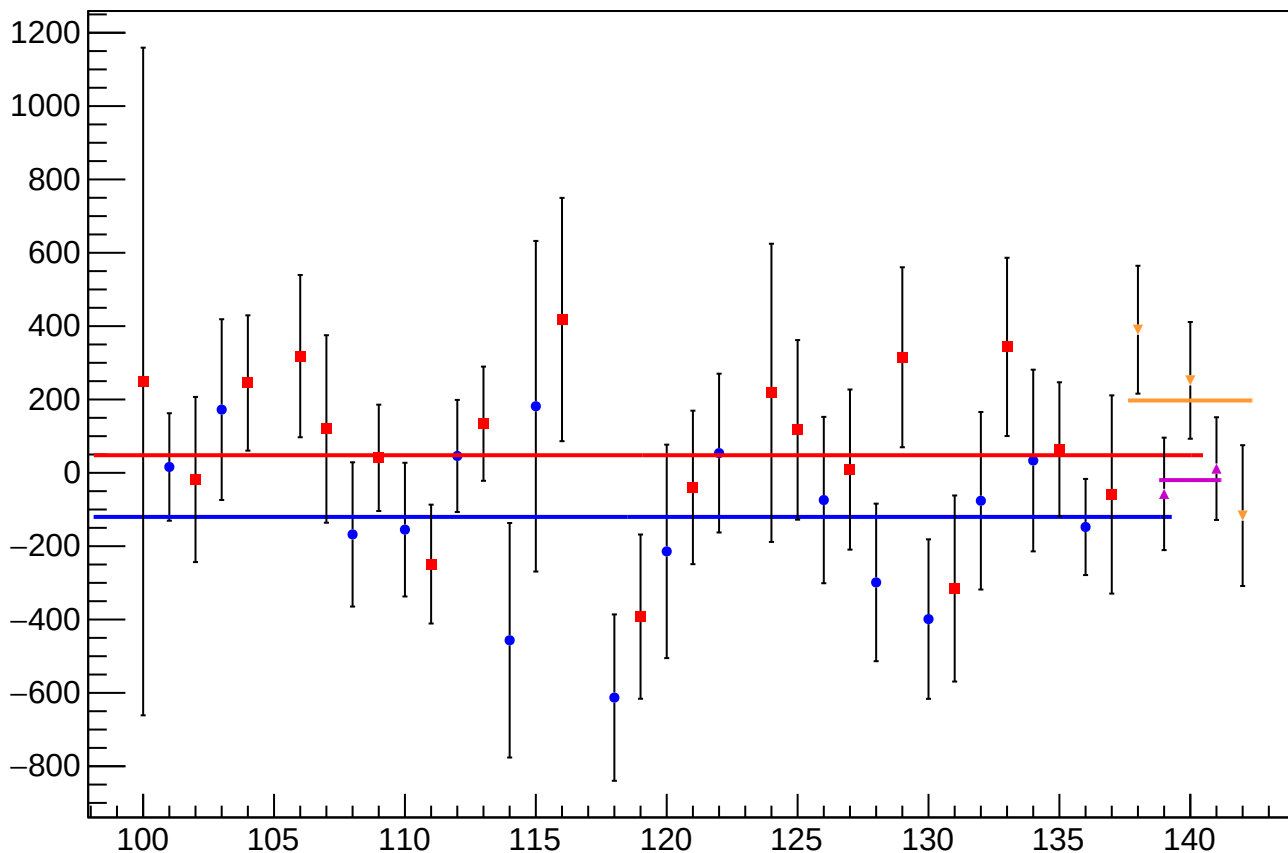
Right: 1248.058 $\pm$ 0.242 χ^2/NDF : 2577799.9/34

In: 1244.485 $\pm$ 0.307 χ^2/NDF : 1313051.3/17

Out: 1181.581 $\pm$ 0.283 χ^2/NDF : 1524138.3/21

All: 1210.505 $\pm$ 0.208 χ^2/NDF : 2859884.4/39

cor_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -120.169 $\pm$ 51.103 χ^2 /NDF: 13.4/15

Left Out: 197.279 $\pm$ 100.248 χ^2 /NDF: 4.0/2

Right Out: 48.013 $\pm$ 49.919 χ^2 /NDF: 17.0/18

Left In: -19.792 $\pm$ 103.383 χ^2 /NDF: 0.1/1

Left: 92.084 $\pm$ 71.969 χ^2 /NDF: 6.4/4

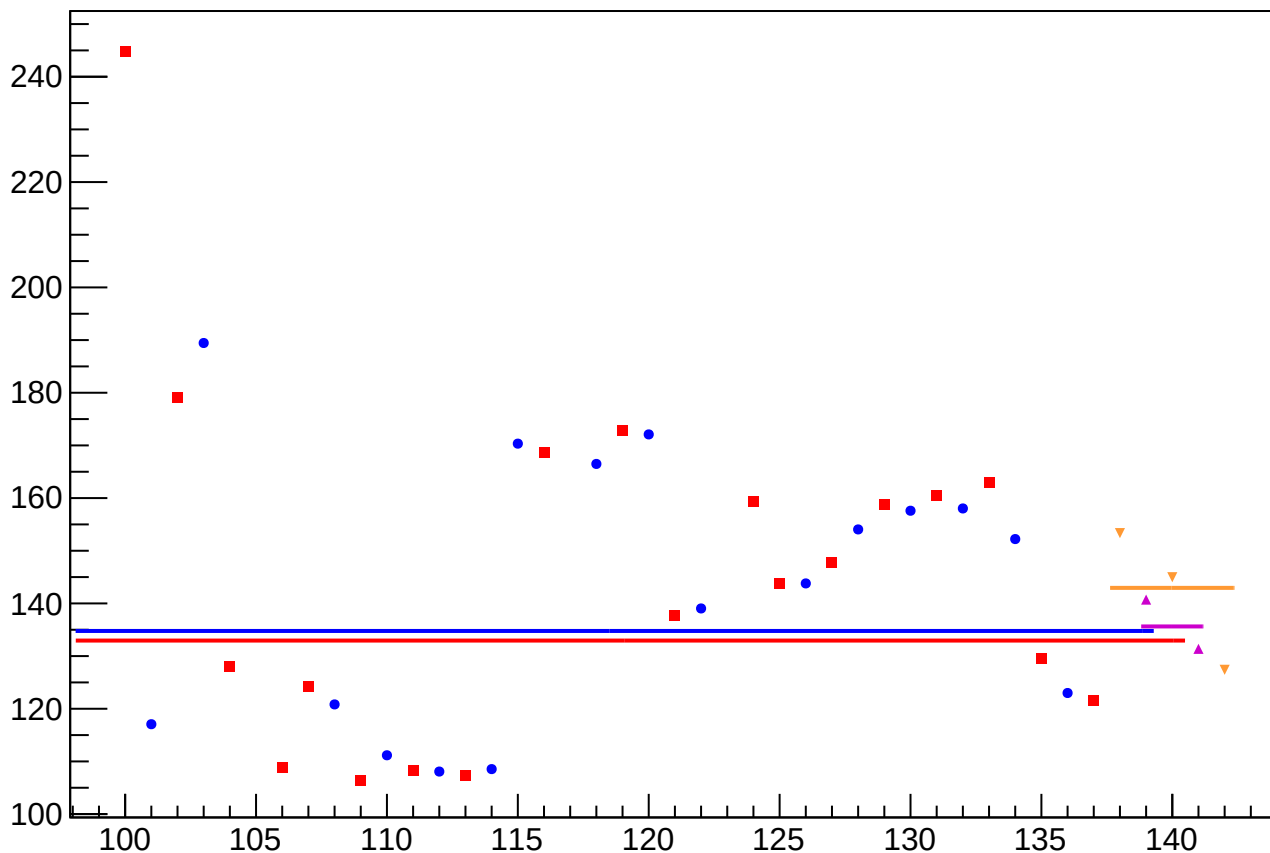
Right: -34.107 $\pm$ 35.709 χ^2 /NDF: 35.9/34

In: -100.459 $\pm$ 45.812 χ^2 /NDF: 14.3/17

Out: 77.670 $\pm$ 44.685 χ^2 /NDF: 22.8/21

All: -9.177 $\pm$ 31.988 χ^2 /NDF: 44.8/39

cor_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 134.771 $\pm$ 0.036 χ^2 /NDF: 416781.8/15

Left Out: 142.952 $\pm$ 0.071 χ^2 /NDF:20561.0/2

Right Out: 132.947 $\pm$ 0.035 χ^2 /NDF: 498850.6/18

Left In: 135.629 $\pm$ 0.073 χ^2 /NDF:4053.0/1

Left: 139.403 $\pm$ 0.051 χ^2 /NDF: 29787.0/4

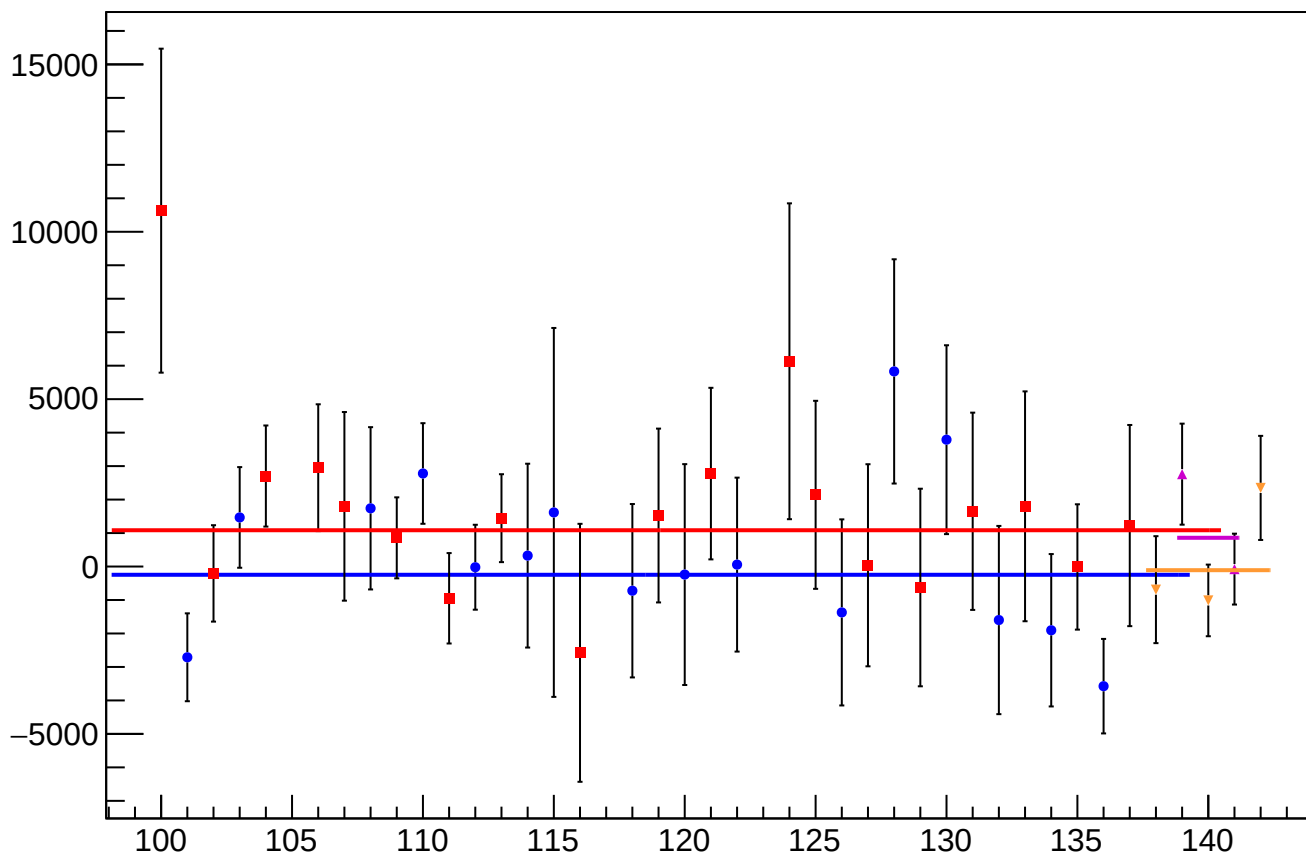
Right: 133.838 $\pm$ 0.025 χ^2 /NDF: 916936.5/34

In: 134.940 $\pm$ 0.032 χ^2 /NDF:420945.3/17

Out: 134.935 $\pm$ 0.032 χ^2 /NDF:535375.5/21

All: 134.937 $\pm$ 0.023 χ^2 /NDF: 956320.8/39

asym_sam_48_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -246.428+/-501.418 χ^2/NDF : 21.6/15

Left Out: -109.238+/-771.770 χ^2/NDF : 3.3/2

Right Out: 1084.094+/-469.323 χ^2/NDF : 12.8/18

Left In: 858.673+/-866.659 χ^2/NDF : 2.4/1

Left: 318.849+/-576.364 χ^2/NDF : 6.4/4

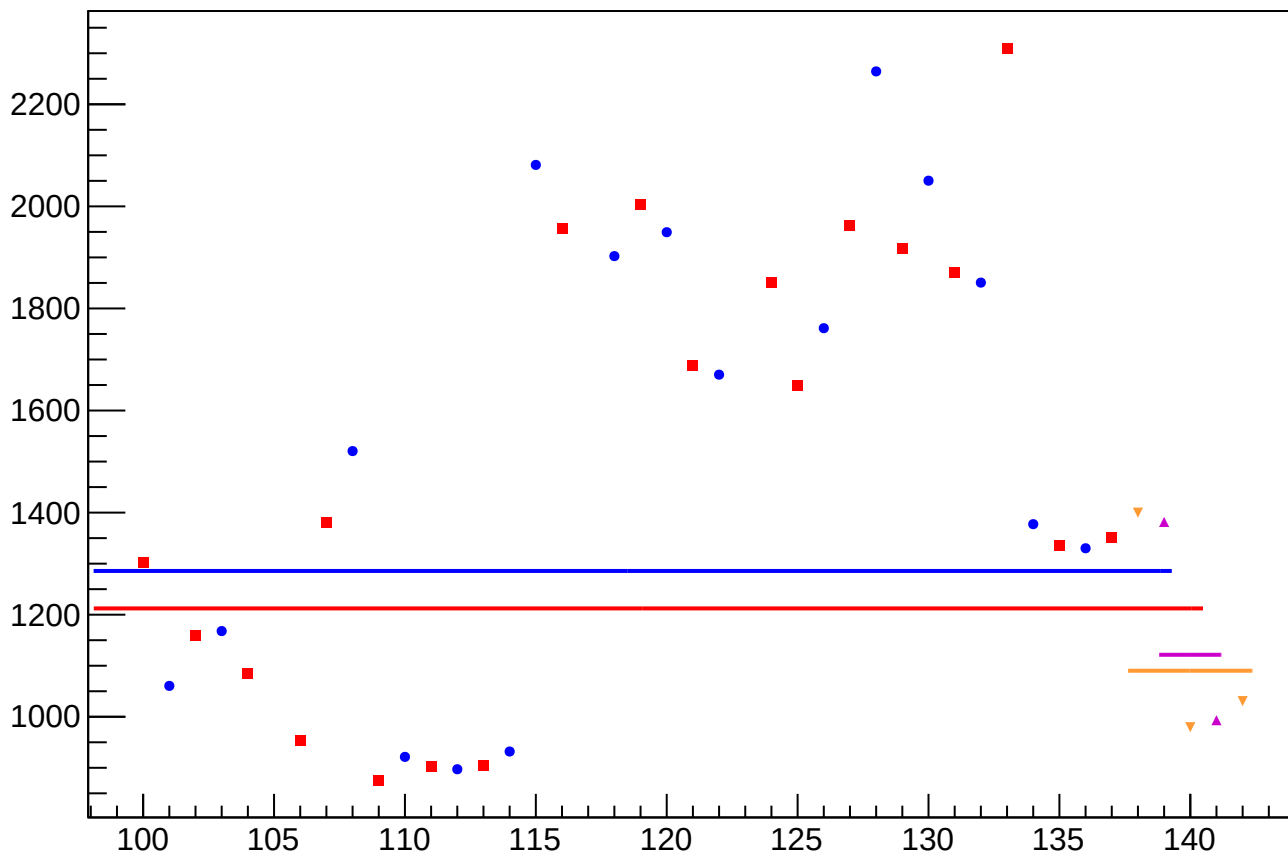
Right: 462.775+/-342.647 χ^2/NDF : 38.1/34

In: 30.719+/-434.012 χ^2/NDF : 25.2/17

Out: 761.934+/-400.999 χ^2/NDF : 17.9/21

All: 425.191+/-294.530 χ^2/NDF : 44.6/39

asym_sam_48_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1285.682 $\pm$ 0.355 χ^2 /NDF: 1170412.5/15

Left Out: 1090.210 $\pm$ 0.546 χ^2 /NDF:99490.0/2

Right Out: 1212.276 $\pm$ 0.332 χ^2 /NDF: 1400635.5/18

Left In: 1121.453 $\pm$ 0.613 χ^2 /NDF:88813.8/1

Left: 1104.028 $\pm$ 0.408 χ^2 /NDF: 189753.4/4

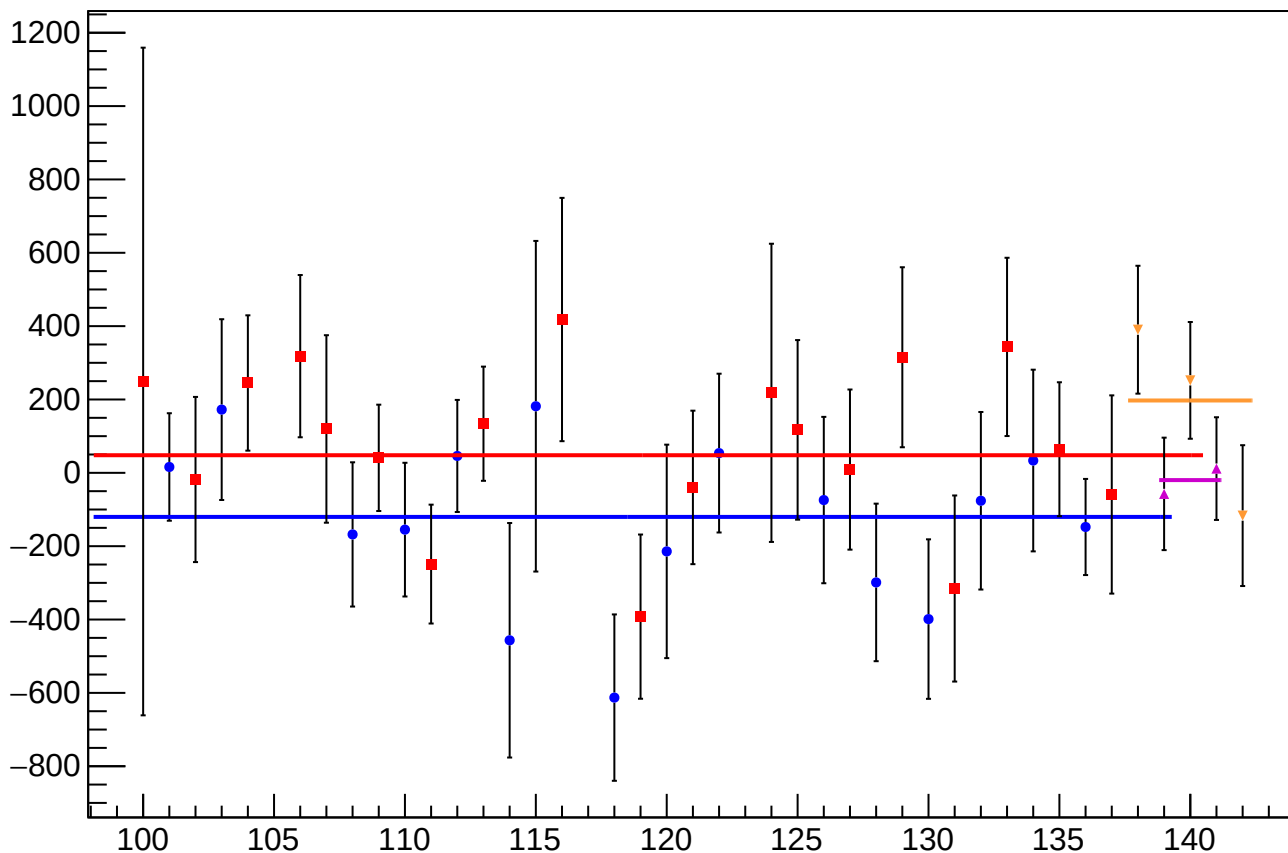
Right: 1246.554 $\pm$ 0.242 χ^2 /NDF: 2593895.7/34

In: 1244.495 $\pm$ 0.307 χ^2 /NDF:1313032.9/17

Out: 1179.322 $\pm$ 0.284 χ^2 /NDF:1536649.7/21

All: 1209.336 $\pm$ 0.208 χ^2 /NDF: 2874012.1/39

eigen_cor_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -120.169+/-51.103 χ^2/NDF : 13.4/15

Left Out: 197.279+/-100.248 χ^2/NDF : 4.0/2

Right Out: 48.013+/-49.919 χ^2/NDF : 17.0/18

Left In: -19.792+/-103.383 χ^2/NDF : 0.1/1

Left: 92.084+/-71.969 χ^2/NDF : 6.4/4

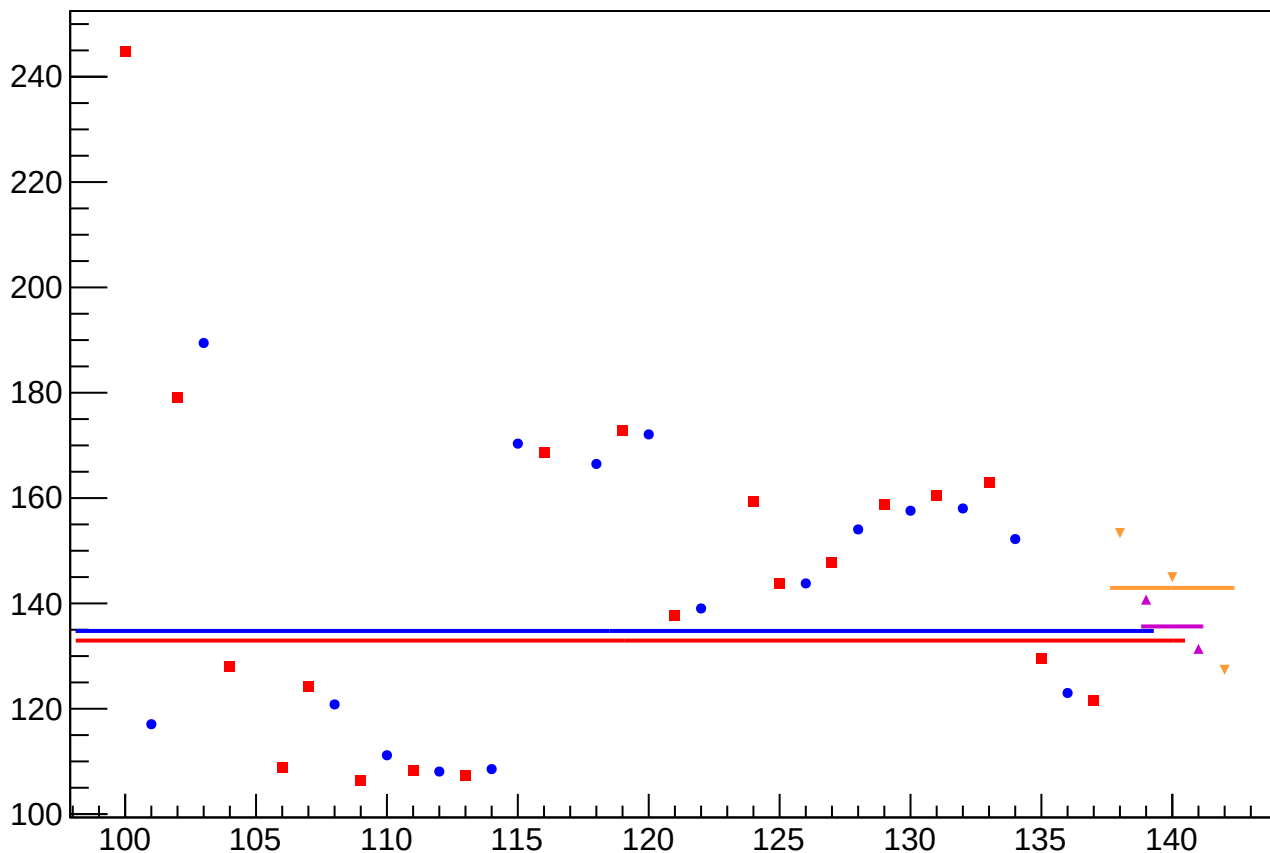
Right: -34.107+/-35.709 χ^2/NDF : 35.9/34

In: -100.459+/-45.812 χ^2/NDF : 14.3/17

Out: 77.670+/-44.685 χ^2/NDF : 22.8/21

All: -9.177+/-31.988 χ^2/NDF : 44.8/39

eigen_cor_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 134.771 $\pm$ 0.036 χ^2 /NDF: 416781.8/15

Left Out: 142.952 $\pm$ 0.071 χ^2 /NDF:20561.0/2

Right Out: 132.947 $\pm$ 0.035 χ^2 /NDF: 498850.6/18

Left In: 135.629 $\pm$ 0.073 χ^2 /NDF:4053.0/1

Left: 139.403 $\pm$ 0.051 χ^2 /NDF: 29787.0/4

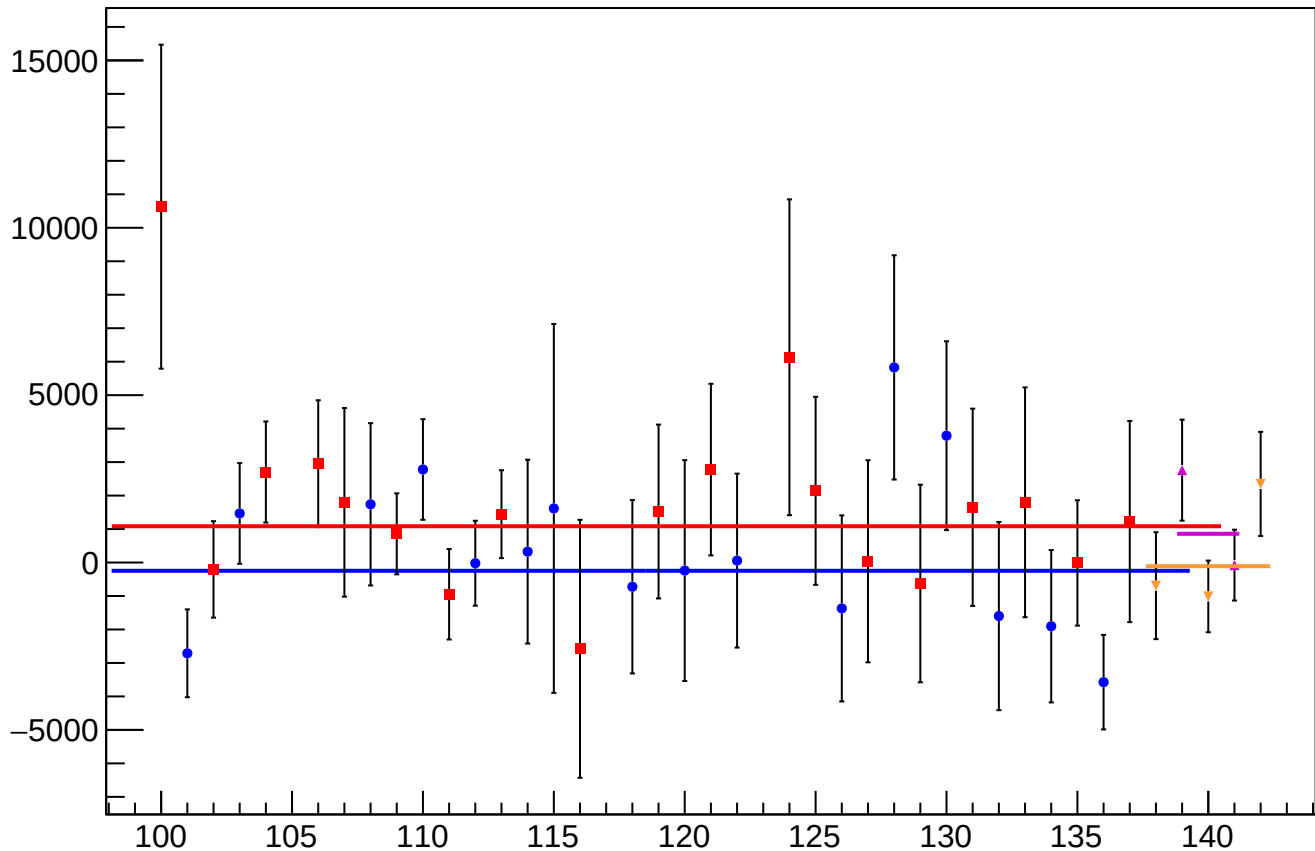
Right: 133.838 $\pm$ 0.025 χ^2 /NDF: 916936.5/34

In: 134.940 $\pm$ 0.032 χ^2 /NDF:420945.3/17

Out: 134.935 $\pm$ 0.032 χ^2 /NDF:535375.5/21

All: 134.937 $\pm$ 0.023 χ^2 /NDF: 956320.8/39

asym_sam_48_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -246.428+/-501.418 χ^2/NDF : 21.6/15

Left Out: -109.238+/-771.770 χ^2/NDF : 3.3/2

Right Out: 1084.094+/-469.323 χ^2/NDF : 12.8/18

Left In: 858.673+/-866.659 χ^2/NDF : 2.4/1

Left: 318.849+/-576.364 χ^2/NDF : 6.4/4

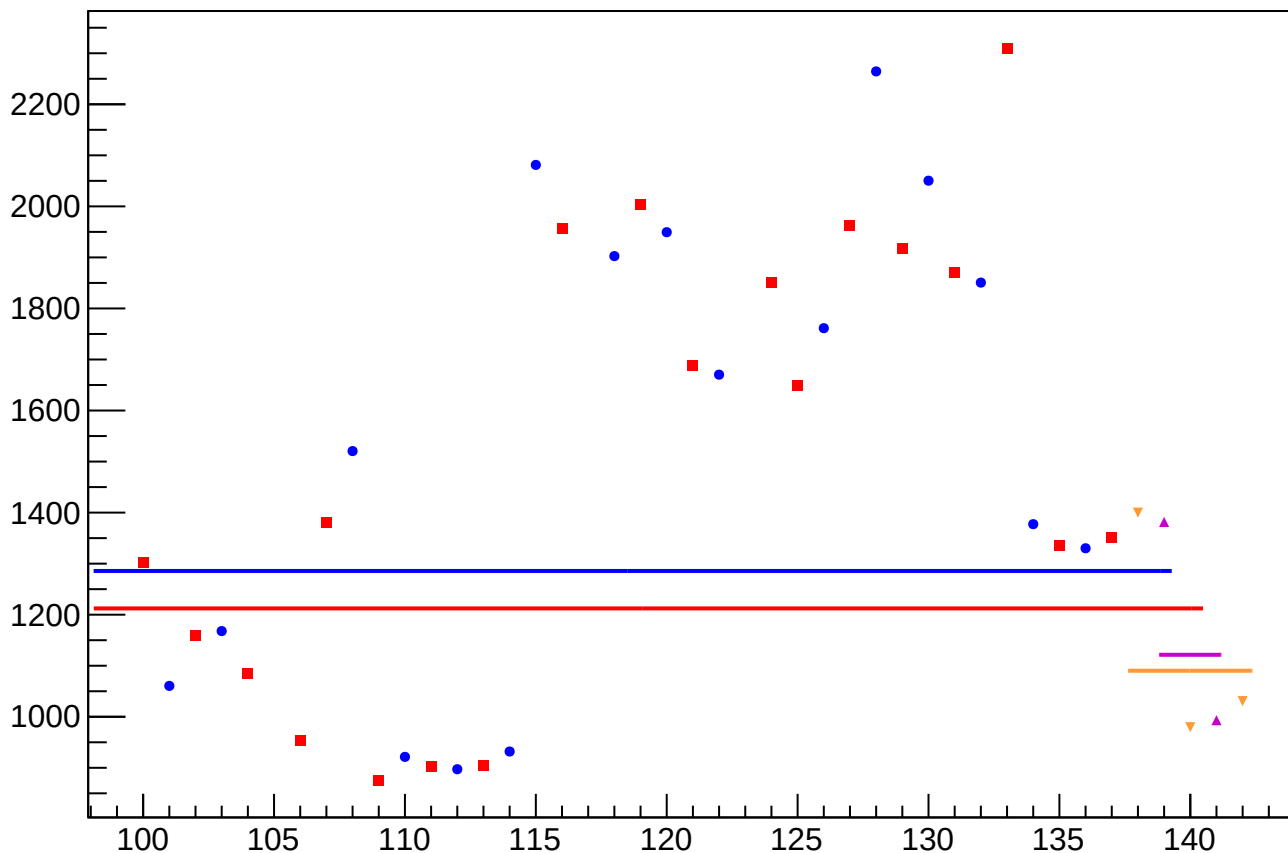
Right: 462.775+/-342.647 χ^2/NDF : 38.1/34

In: 30.719+/-434.012 χ^2/NDF : 25.2/17

Out: 761.934+/-400.999 χ^2/NDF : 17.9/21

All: 425.191+/-294.530 χ^2/NDF : 44.6/39

asym_sam_48_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1285.682+/-0.355

χ^2/NDF : 1170412.5/15

Left Out: 1090.210+/-0.546

χ^2/NDF : 99490.0/2

Right Out: 1212.276+/-0.332

χ^2/NDF : 1400635.5/18

Left In: 1121.453+/-0.613

χ^2/NDF : 88813.8/1

Left: 1104.028+/-0.408

χ^2/NDF : 189753.4/4

Right: 1246.554+/-0.242

χ^2/NDF : 2593895.7/34

In: 1244.495+/-0.307

χ^2/NDF : 1313032.9/17

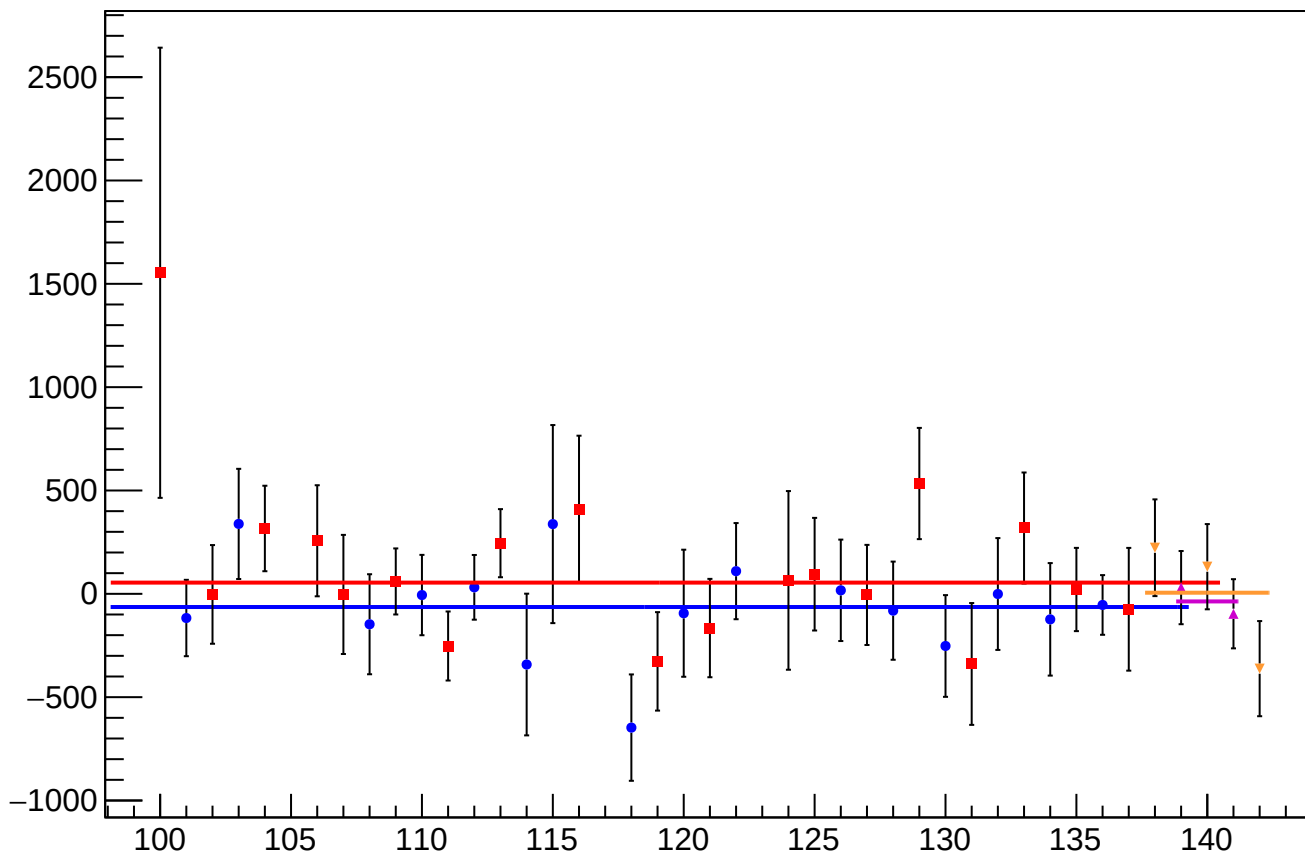
Out: 1179.322+/-0.284

χ^2/NDF : 1536649.7/21

All: 1209.336+/-0.208

χ^2/NDF : 2874012.1/39

dit_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -63.781 ± 56.734 χ^2/NDF : 10.8/15

Left Out: 5.431 ± 128.403 χ^2/NDF : 3.8/2

Right Out: 54.305 ± 54.743 χ^2/NDF : 19.5/18

Left In: -36.763 ± 121.612 χ^2/NDF : 0.3/1

Left: -16.812 ± 88.296 χ^2/NDF : 4.1/4

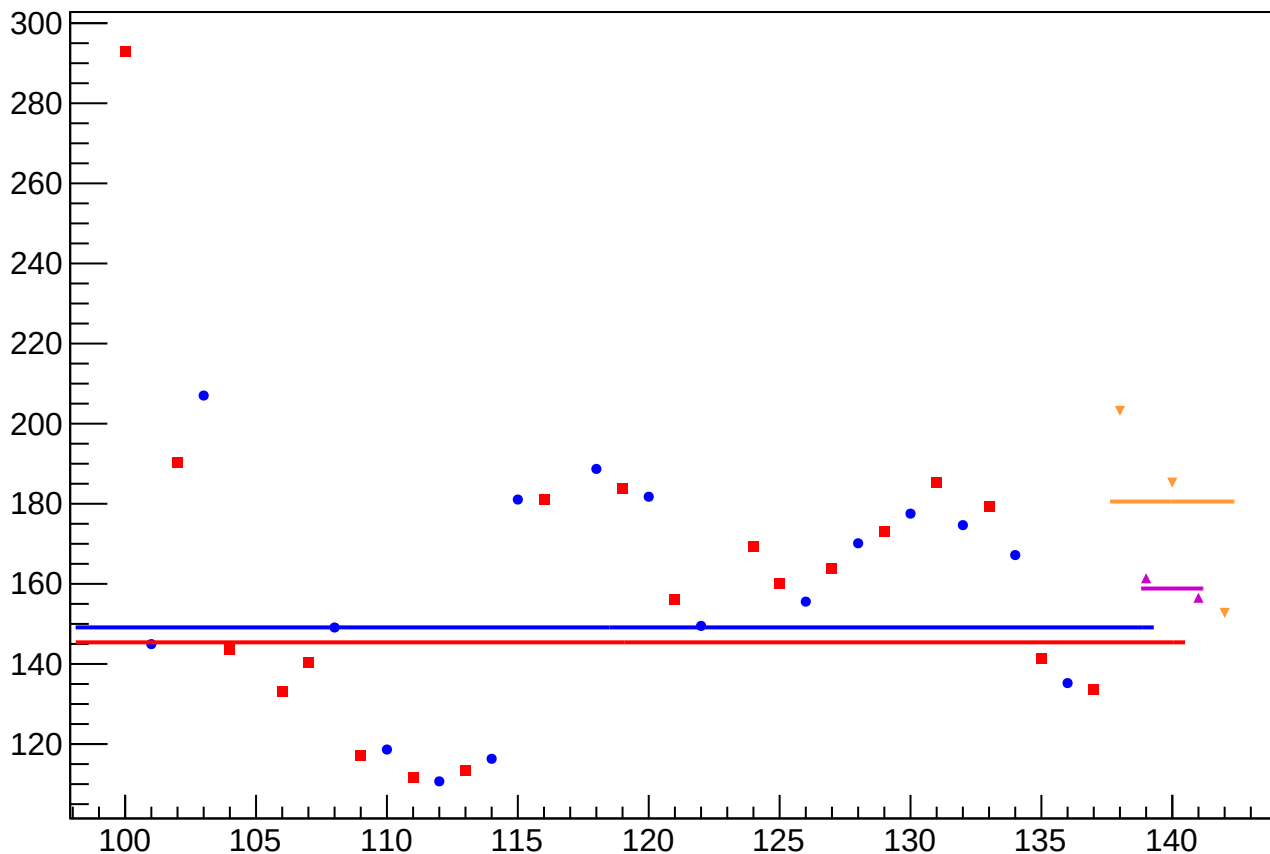
Right: -2.630 ± 39.394 χ^2/NDF : 32.6/34

In: -58.952 ± 51.414 χ^2/NDF : 11.1/17

Out: 46.788 ± 50.357 χ^2/NDF : 23.4/21

All: -4.984 ± 35.976 χ^2/NDF : 36.7/39

dit_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 149.130 $\pm$ 0.040 χ^2 /NDF: 451003.6/15

Left Out: 180.551 $\pm$ 0.091 χ^2 /NDF: 48915.6/2

Right Out: 145.399 $\pm$ 0.039 χ^2 /NDF: 525820.0/18

Left In: 158.836 $\pm$ 0.086 χ^2 /NDF: 797.9/1

Left: 169.104 $\pm$ 0.062 χ^2 /NDF: 79867.3/4

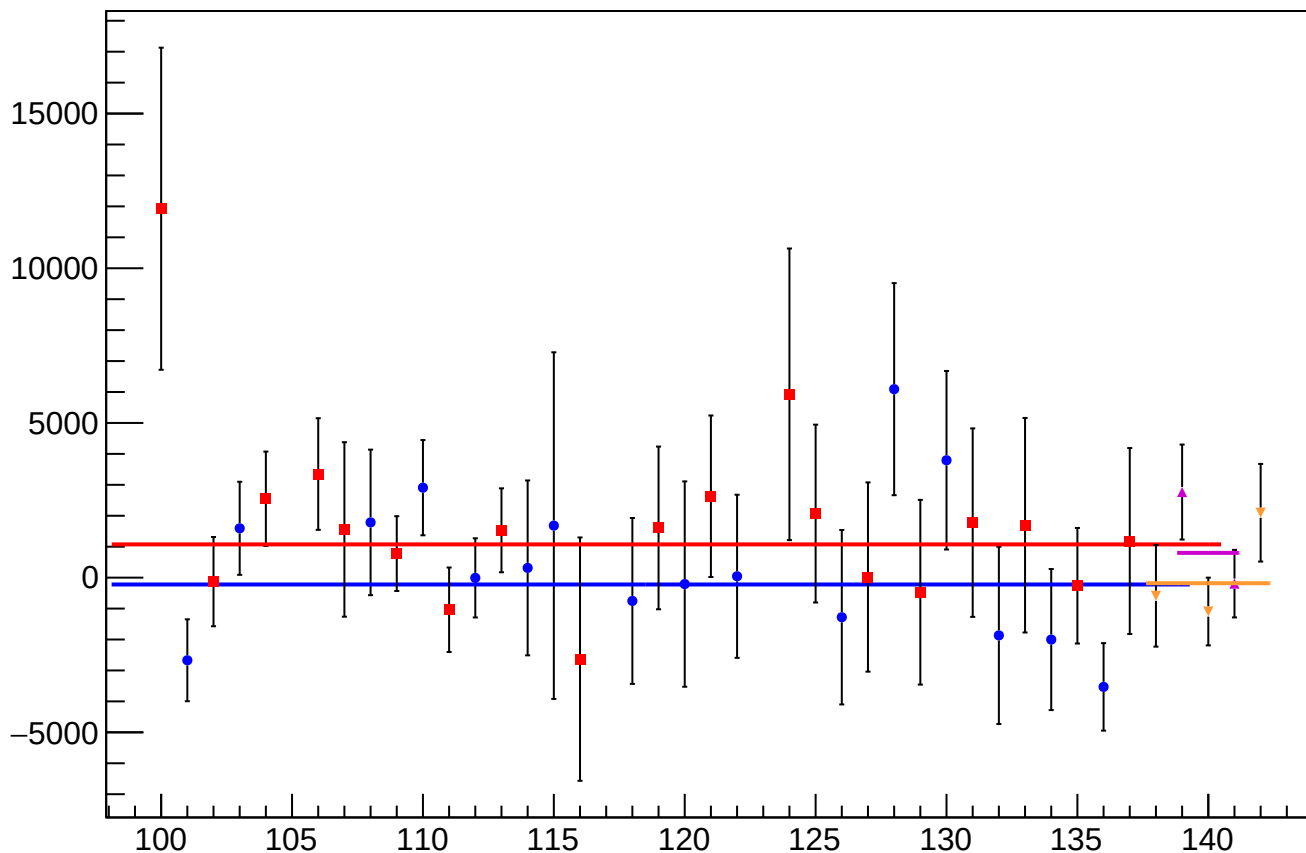
Right: 147.198 $\pm$ 0.028 χ^2 /NDF: 981303.1/34

In: 150.865 $\pm$ 0.036 χ^2 /NDF: 462263.2/17

Out: 150.806 $\pm$ 0.036 χ^2 /NDF: 701574.5/21

All: 150.835 $\pm$ 0.025 χ^2 /NDF: 1163839.1/39

asym_sam_48_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -221.240+/-506.202 χ^2/NDF : 21.9/15

Left Out: -180.196+/-789.067 χ^2/NDF : 2.8/2

Right Out: 1074.433+/-472.816 χ^2/NDF : 13.6/18

Left In: 800.229+/-889.832 χ^2/NDF : 2.5/1

Left: 251.385+/-590.380 χ^2/NDF : 6.0/4

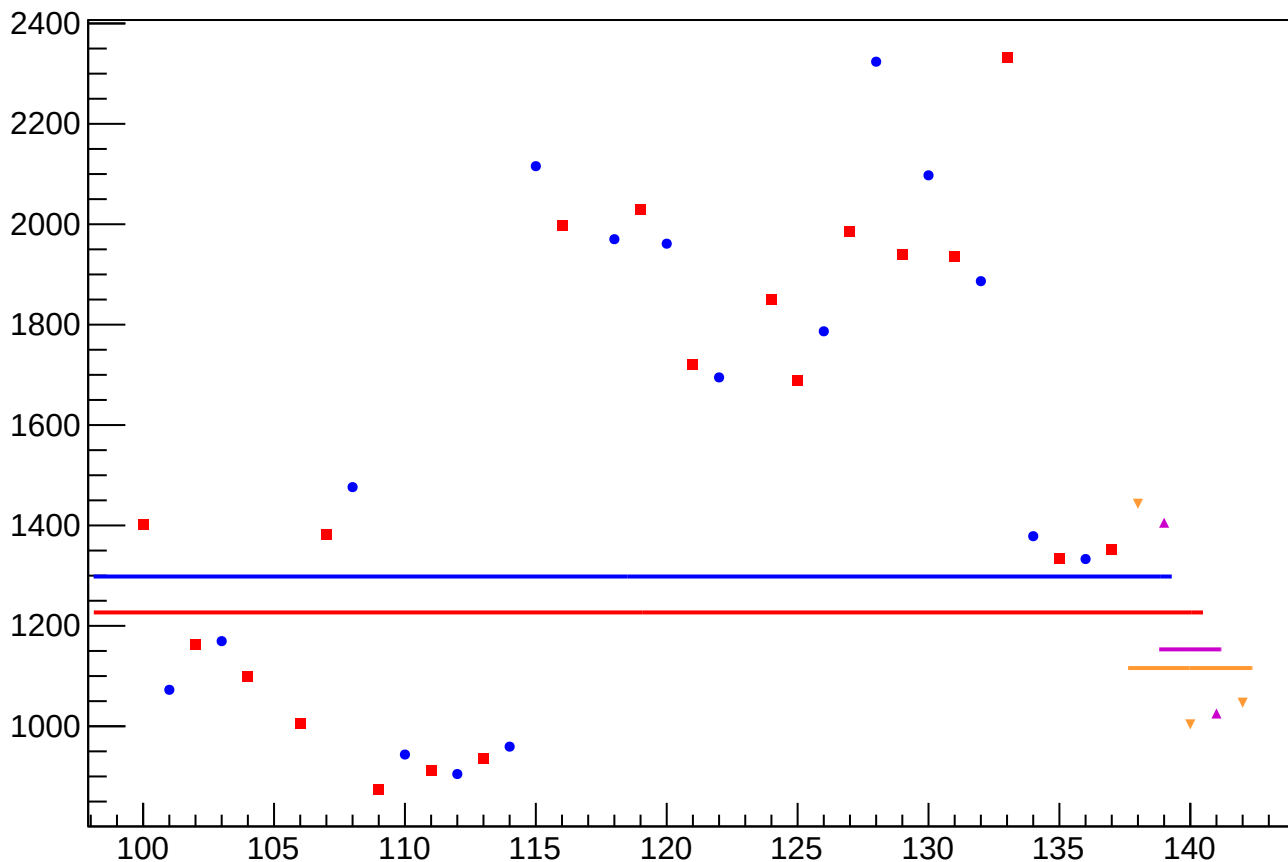
Right: 470.729+/-345.532 χ^2/NDF : 39.0/34

In: 28.503+/-439.989 χ^2/NDF : 25.3/17

Out: 742.969+/-405.578 χ^2/NDF : 18.3/21

All: 414.764+/-298.211 χ^2/NDF : 45.1/39

asym_sam_48_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1298.293+/-0.358 χ^2/NDF : 1182123.0/15

Left Out: 1115.965+/-0.558 χ^2/NDF :104232.2/2

Right Out: 1226.729+/-0.334 χ^2/NDF : 1404521.7/18

Left In: 1153.128+/-0.629 χ^2/NDF :81390.0/1

Left: 1132.324+/-0.417 χ^2/NDF : 187575.0/4

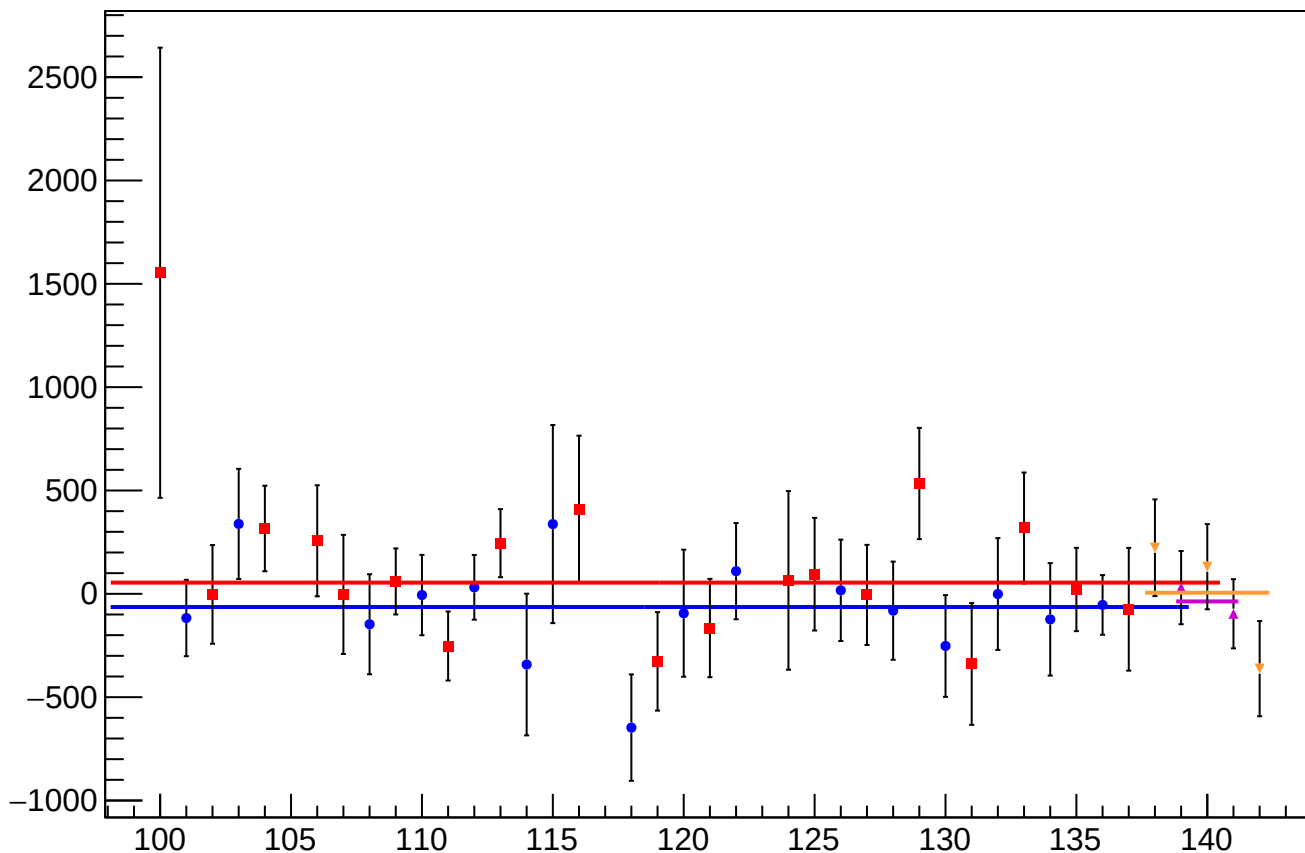
Right: 1260.073+/-0.244 χ^2/NDF : 2607993.3/34

In: 1262.801+/-0.311 χ^2/NDF :1303727.1/17

Out: 1197.466+/-0.287 χ^2/NDF :1537751.3/21

All: 1227.479+/-0.211 χ^2/NDF : 2865320.3/39

eigen_dit_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -63.778 ± 56.734 χ^2/NDF : 10.8/15

Left Out: 5.433 ± 128.403 χ^2/NDF : 3.8/2

Right Out: 54.304 ± 54.743 χ^2/NDF : 19.5/18

Left In: -36.765 ± 121.612 χ^2/NDF : 0.3/1

Left: -16.811 ± 88.296 χ^2/NDF : 4.1/4

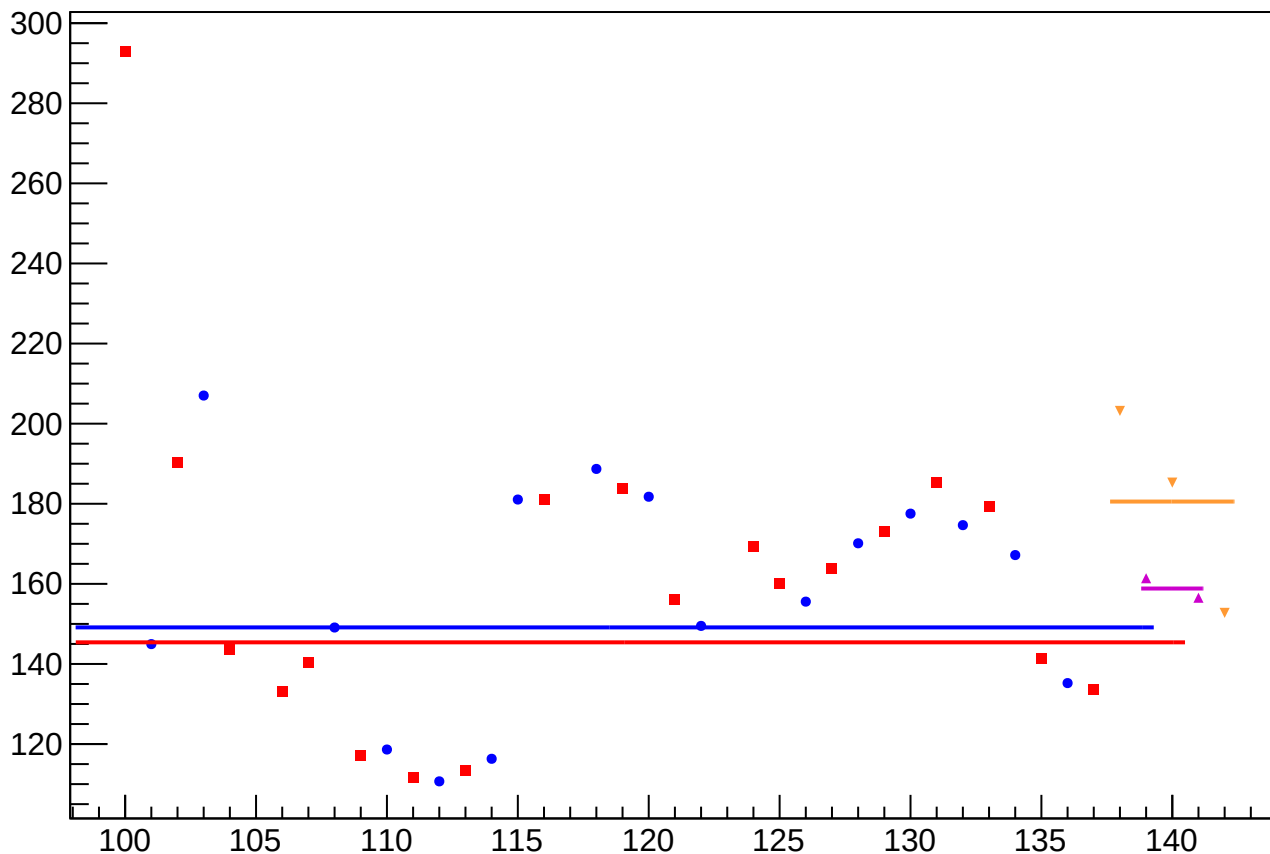
Right: -2.629 ± 39.394 χ^2/NDF : 32.6/34

In: -58.950 ± 51.414 χ^2/NDF : 11.1/17

Out: 46.788 ± 50.357 χ^2/NDF : 23.4/21

All: -4.983 ± 35.976 χ^2/NDF : 36.7/39

eigen_dit_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 149.130 ± 0.040 χ^2/NDF : 451005.1/15

Left Out: 180.551 ± 0.091 χ^2/NDF : 48913.6/2

Right Out: 145.399 ± 0.039 χ^2/NDF : 525822.2/18

Left In: 158.836 ± 0.086 χ^2/NDF : 797.7/1

Left: 169.104 ± 0.062 χ^2/NDF : 79865.8/4

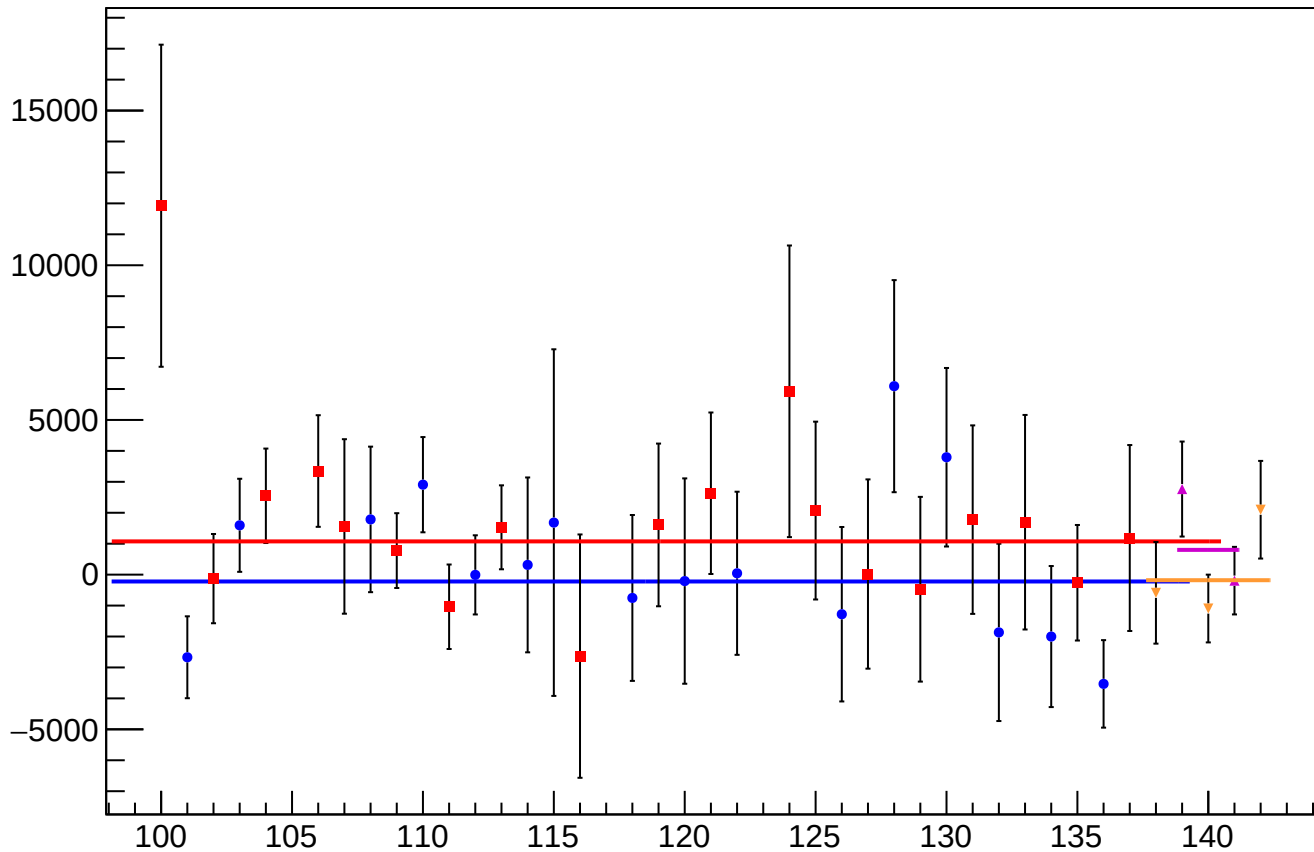
Right: 147.198 ± 0.028 χ^2/NDF : 981307.0/34

In: 150.865 ± 0.036 χ^2/NDF : 462264.4/17

Out: 150.806 ± 0.036 χ^2/NDF : 701576.5/21

All: 150.835 ± 0.025 χ^2/NDF : 1163842.2/39

asym_sam_48_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -221.239+/-506.201 χ^2/NDF : 21.9/15

Left Out: -180.199+/-789.066 χ^2/NDF : 2.8/2

Right Out: 1074.432+/-472.816 χ^2/NDF : 13.6/18

Left In: 800.229+/-889.830 χ^2/NDF : 2.5/1

Left: 251.383+/-590.379 χ^2/NDF : 6.0/4

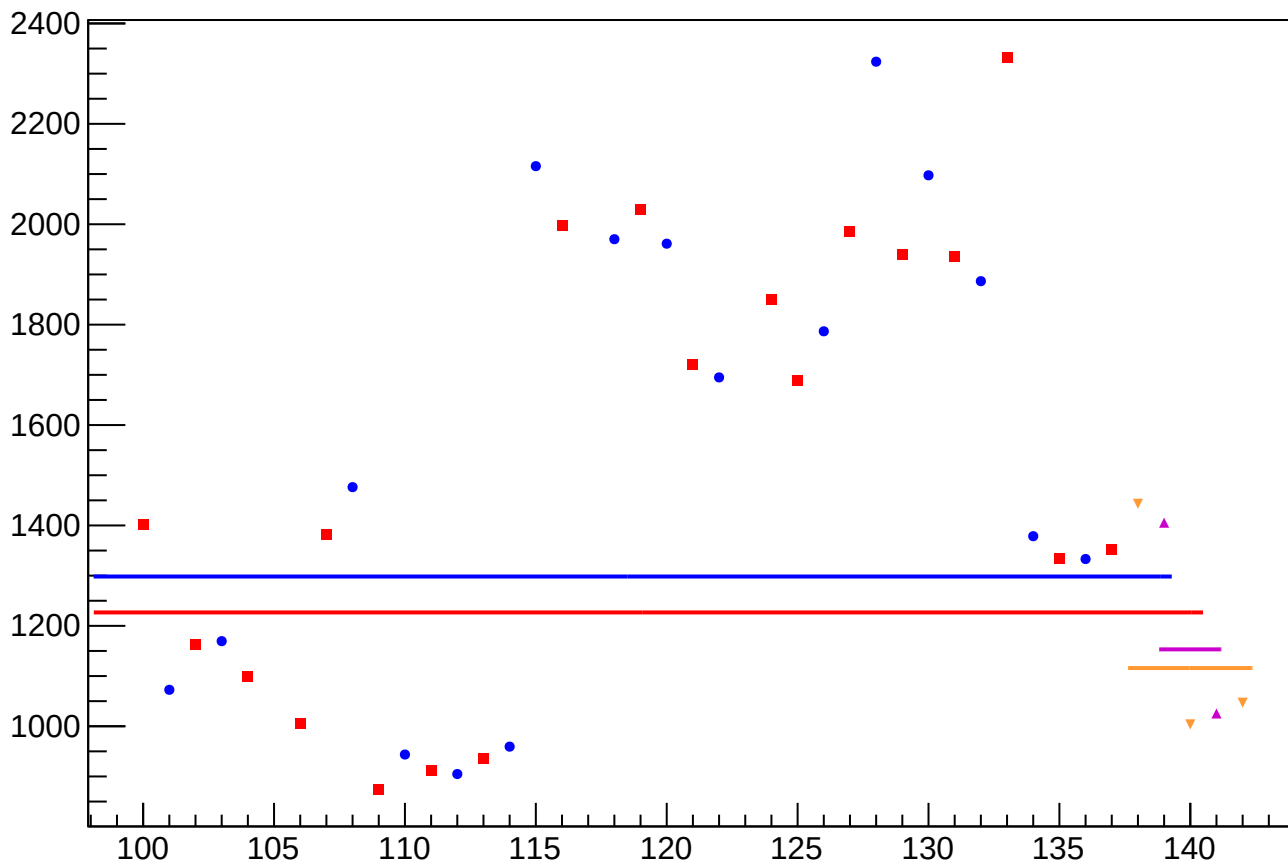
Right: 470.728+/-345.531 χ^2/NDF : 39.0/34

In: 28.505+/-439.989 χ^2/NDF : 25.3/17

Out: 742.967+/-405.578 χ^2/NDF : 18.3/21

All: 414.764+/-298.211 χ^2/NDF : 45.1/39

asym_sam_48_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1298.292+/-0.358 χ^2/NDF : 1182127.2/15

Left Out: 1115.963+/-0.558 χ^2/NDF : 104231.5/2

Right Out: 1226.727+/-0.334 χ^2/NDF : 1404524.7/18

Left In: 1153.125+/-0.629 χ^2/NDF : 81390.7/1

Left: 1132.322+/-0.417 χ^2/NDF : 187575.0/4

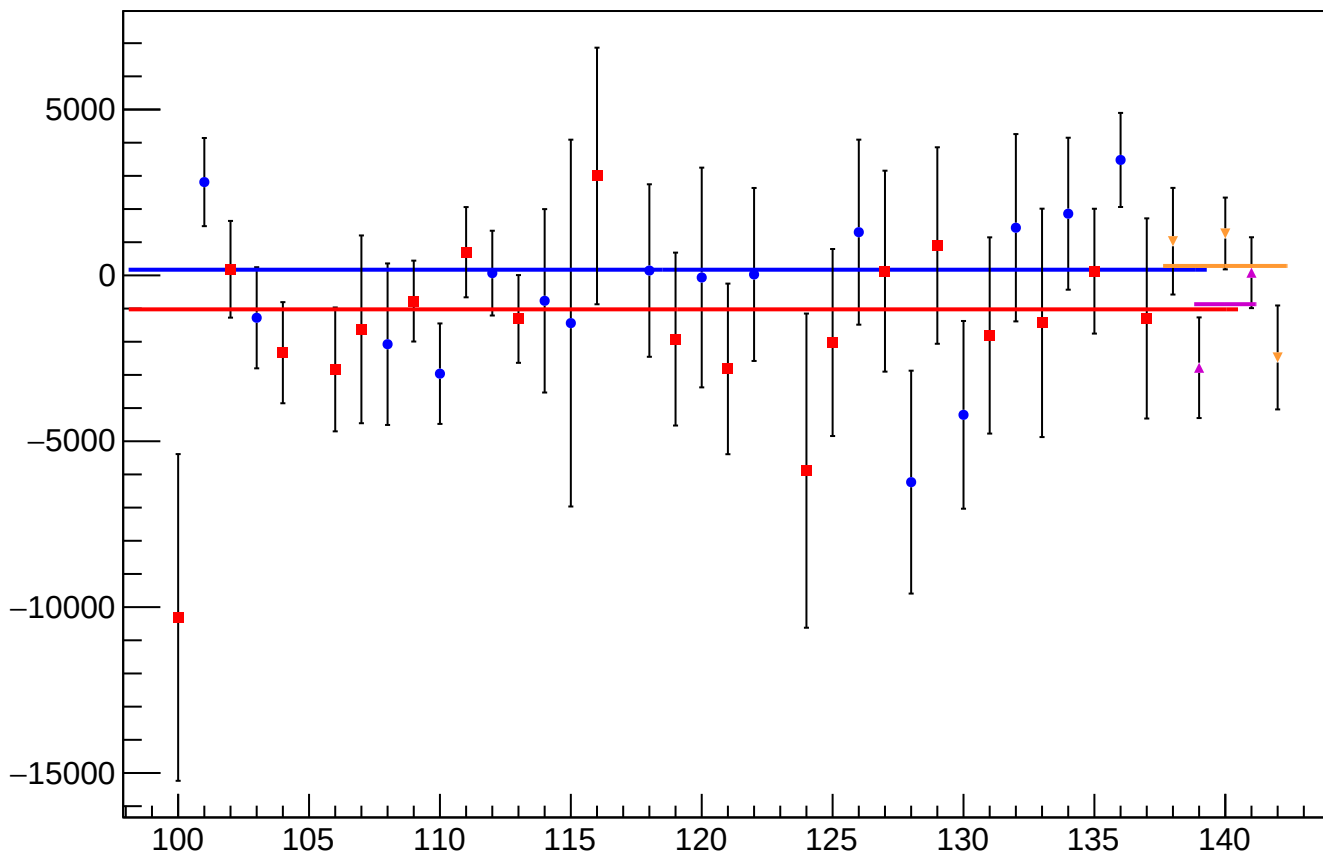
Right: 1260.072+/-0.244 χ^2/NDF : 2608000.5/34

In: 1262.799+/-0.311 χ^2/NDF : 1303732.8/17

Out: 1197.464+/-0.287 χ^2/NDF : 1537754.0/21

All: 1227.477+/-0.211 χ^2/NDF : 2865328.5/39

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 171.056+/-505.136 χ^2/NDF : 22.6/15

Left Out: 284.851+/-778.943 χ^2/NDF : 4.1/2

Right Out: -1023.699+/-472.008 χ^2/NDF : 11.6/18

Left In: -868.074+/-873.341 χ^2/NDF : 2.4/1

Left: -225.958+/-581.316 χ^2/NDF : 7.5/4

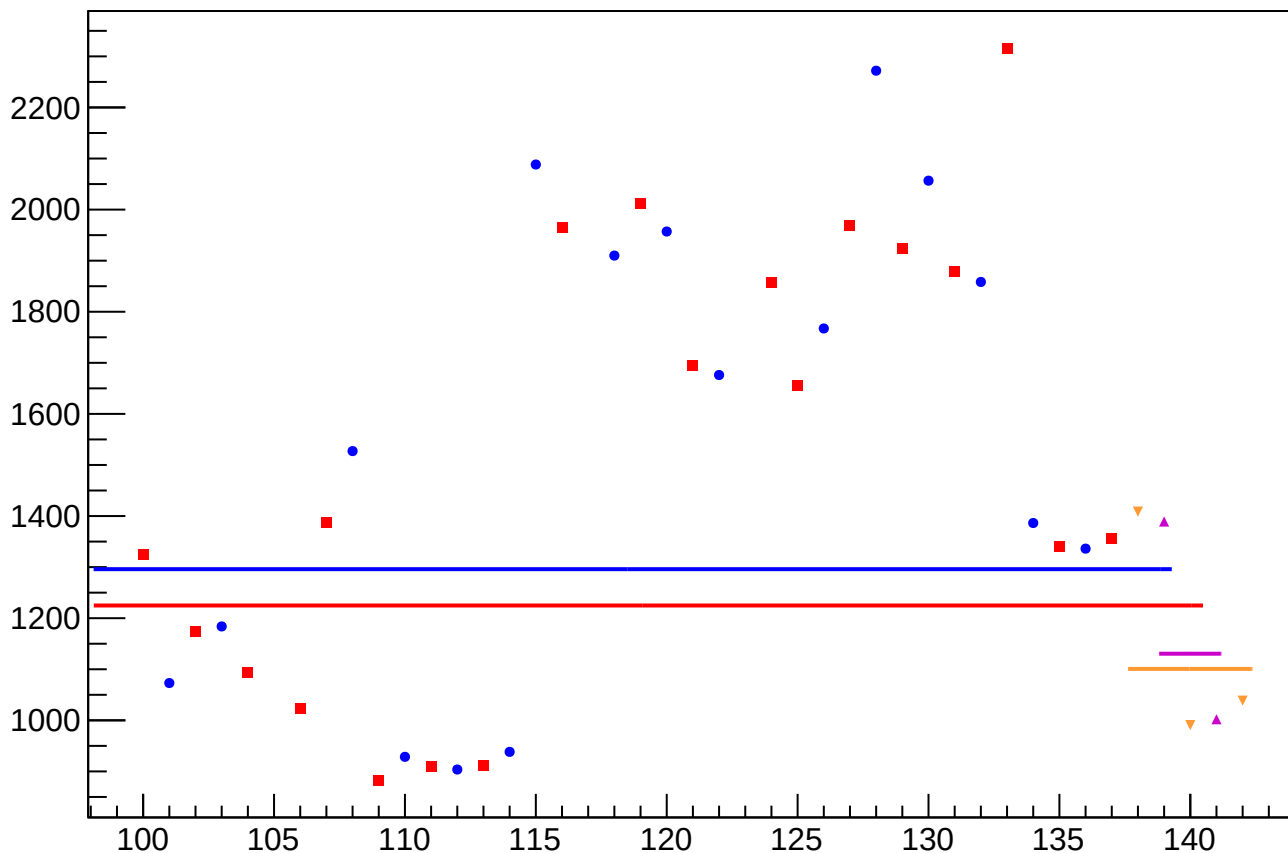
Right: -466.780+/-344.877 χ^2/NDF : 37.1/34

In: -89.432+/-437.263 χ^2/NDF : 26.0/17

Out: -672.259+/-403.679 χ^2/NDF : 17.8/21

All: -404.085+/-296.607 χ^2/NDF : 44.7/39

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1295.987+/-0.357 χ^2/NDF : 1154185.9/15

Left Out: 1100.708+/-0.551 χ^2/NDF : 97216.9/2

Right Out: 1224.872+/-0.334 χ^2/NDF : 1371285.2/18

Left In: 1130.461+/-0.618 χ^2/NDF : 87062.8/1

Left: 1113.890+/-0.411 χ^2/NDF : 185572.5/4

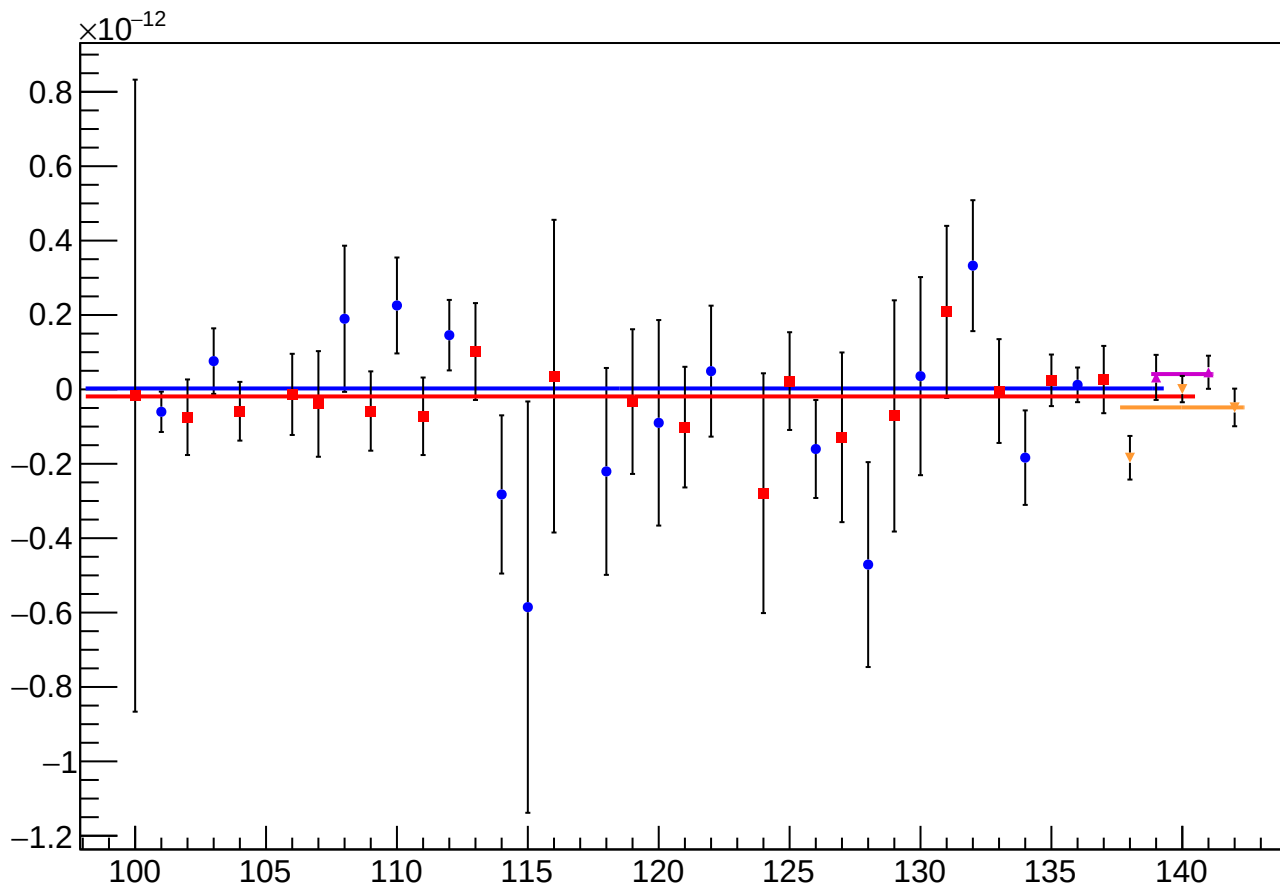
Right: 1258.021+/-0.244 χ^2/NDF : 2546633.6/34

In: 1254.493+/-0.309 χ^2/NDF : 1295083.7/17

Out: 1191.525+/-0.285 χ^2/NDF : 1505670.9/21

All: 1220.498+/-0.210 χ^2/NDF : 2823145.7/39

asym_sam_48_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22.2/15

Left Out: -0.000+/-0.000 χ^2/NDF : 7.3/2

Right Out: -0.000+/-0.000 χ^2/NDF : 4.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 11.4/4

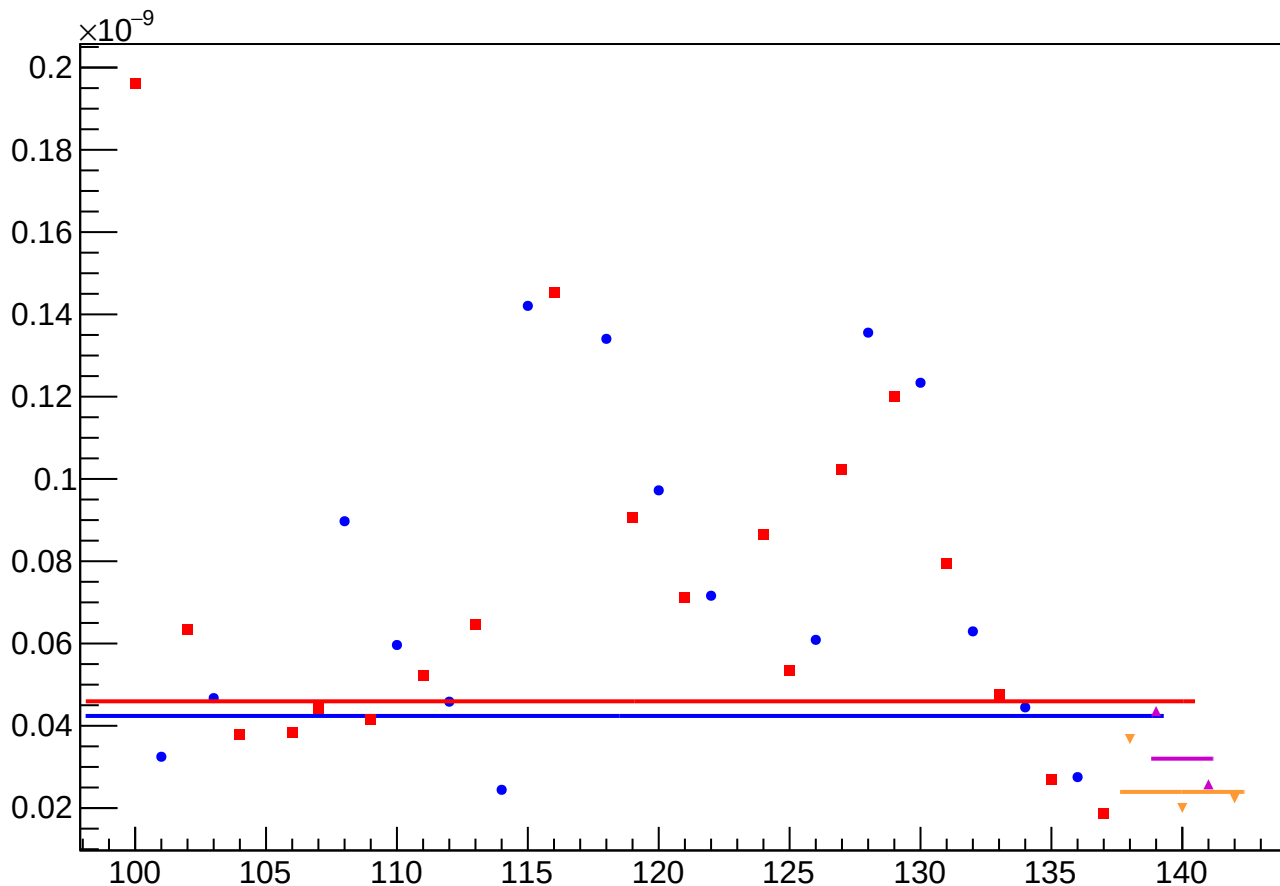
Right: -0.000+/-0.000 χ^2/NDF : 27.2/34

In: 0.000+/-0.000 χ^2/NDF : 23.0/17

Out: -0.000+/-0.000 χ^2/NDF : 12.6/21

All: -0.000+/-0.000 χ^2/NDF : 38.7/39

asym_sam_48_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1341259.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :122204.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1118551.4/18

Left In: 0.000+/-0.000 χ^2/NDF :112111.3/1

Left: 0.000+/-0.000 χ^2/NDF : 300836.5/4

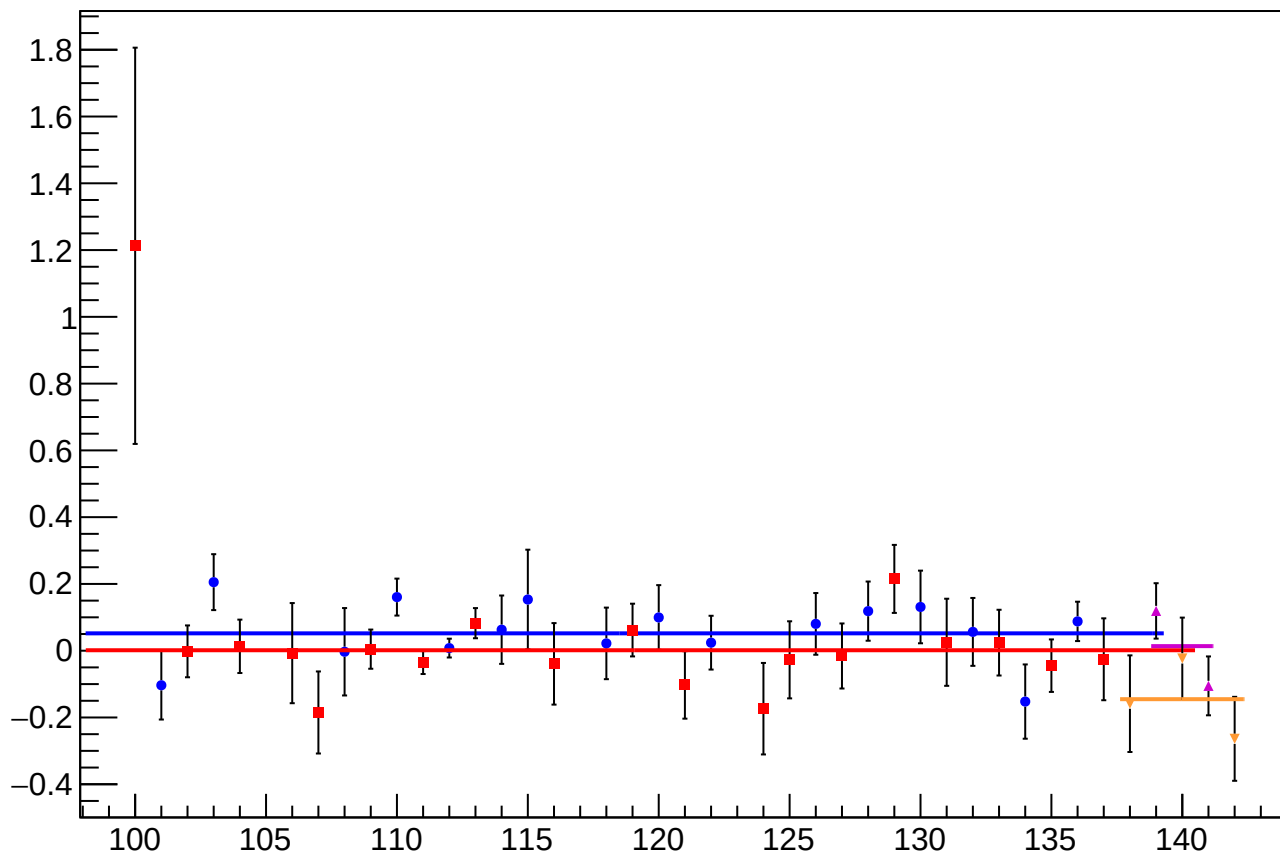
Right: 0.000+/-0.000 χ^2/NDF : 2476096.3/34

In: 0.000+/-0.000 χ^2/NDF :1560861.5/17

Out: 0.000+/-0.000 χ^2/NDF :1883403.8/21

All: 0.000+/-0.000 χ^2/NDF : 3501542.4/39

asym_sam_48_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.018 χ^2 /NDF: 18.0/15

Left Out: -0.145 $\pm$ 0.075 χ^2 /NDF:1.9/2

Right Out: 0.001 $\pm$ 0.018 χ^2 /NDF: 19.2/18

Left In: 0.014 $\pm$ 0.060 χ^2 /NDF:3.4/1

Left: -0.049 $\pm$ 0.047 χ^2 /NDF: 8.1/4

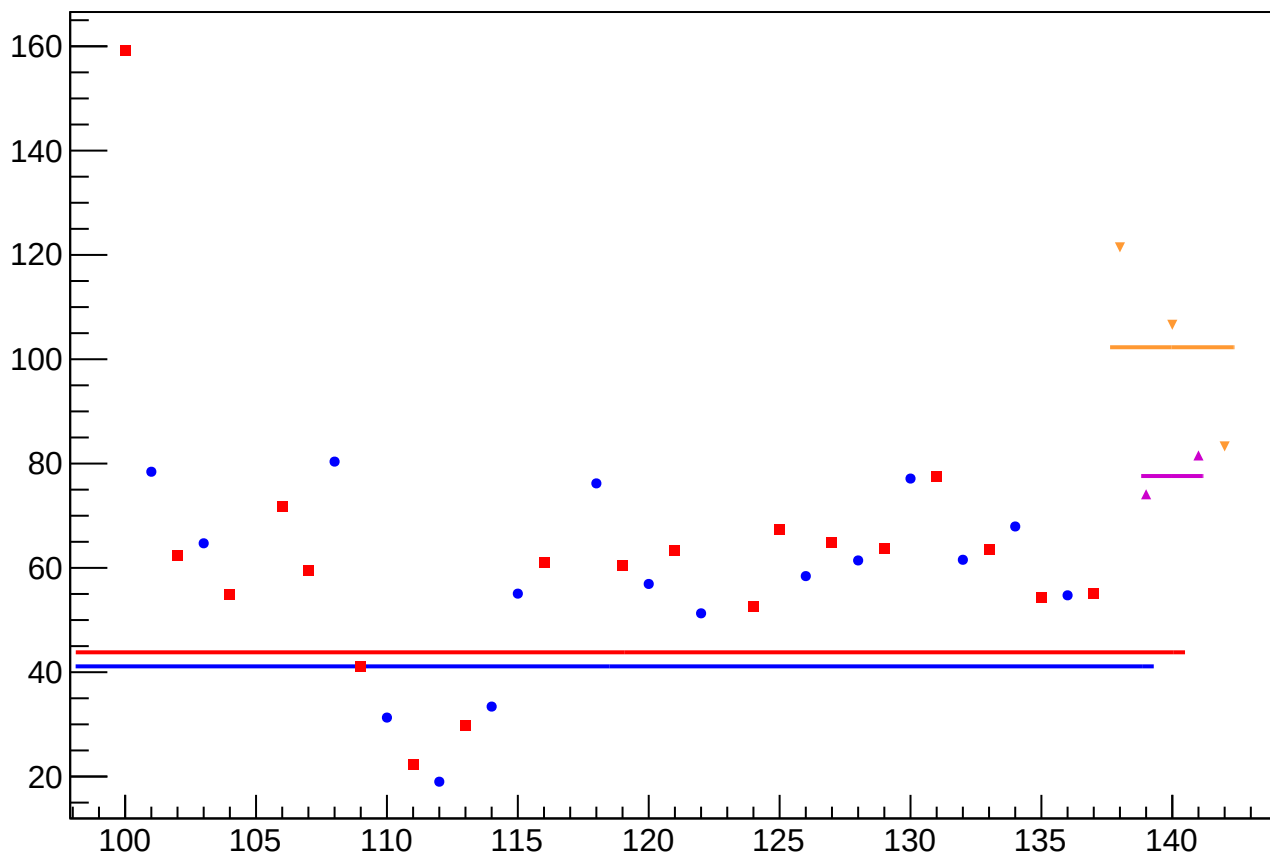
Right: 0.027 $\pm$ 0.013 χ^2 /NDF: 41.2/34

In: 0.049 $\pm$ 0.017 χ^2 /NDF:21.8/17

Out: -0.007 $\pm$ 0.017 χ^2 /NDF:24.8/21

All: 0.022 $\pm$ 0.012 χ^2 /NDF: 51.7/39

asym_sam_48_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.120+/-0.013 χ^2/NDF : 2925302.3/15

Left Out: 102.300+/-0.053 χ^2/NDF : 83217.2/2

Right Out: 43.813+/-0.013 χ^2/NDF : 2048452.0/18

Left In: 77.610+/-0.043 χ^2/NDF : 7555.7/1

Left: 87.331+/-0.033 χ^2/NDF : 222214.1/4

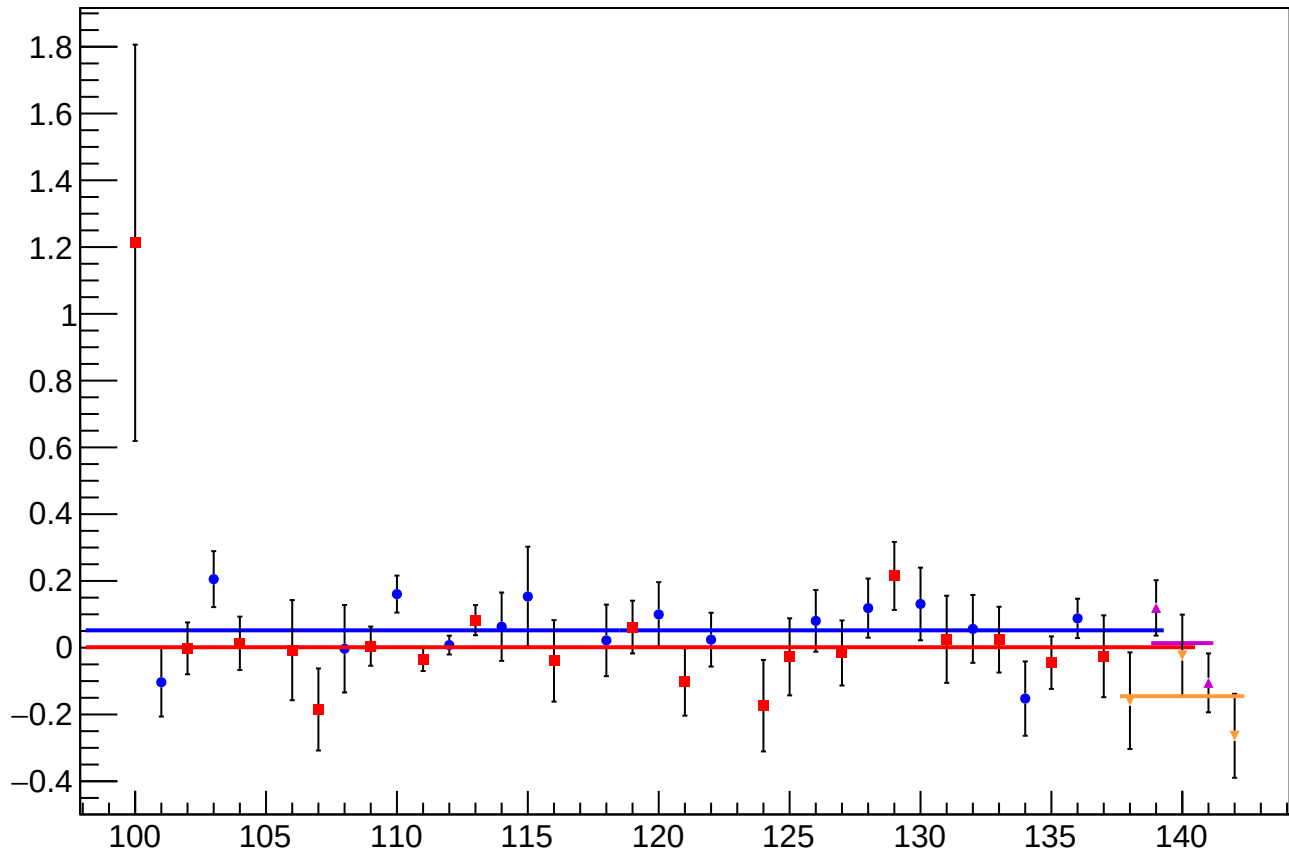
Right: 42.455+/-0.009 χ^2/NDF : 4996519.9/34

In: 44.025+/-0.012 χ^2/NDF : 3604024.3/17

Out: 46.976+/-0.012 χ^2/NDF : 3282510.4/21

All: 45.467+/-0.009 χ^2/NDF : 6915813.2/39

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.018 χ^2 /NDF: 18.0/15

Left Out: -0.145 $\pm$ 0.075 χ^2 /NDF:1.9/2

Right Out: 0.001 $\pm$ 0.018 χ^2 /NDF: 19.2/18

Left In: 0.014 $\pm$ 0.060 χ^2 /NDF:3.4/1

Left: -0.049 $\pm$ 0.047 χ^2 /NDF: 8.1/4

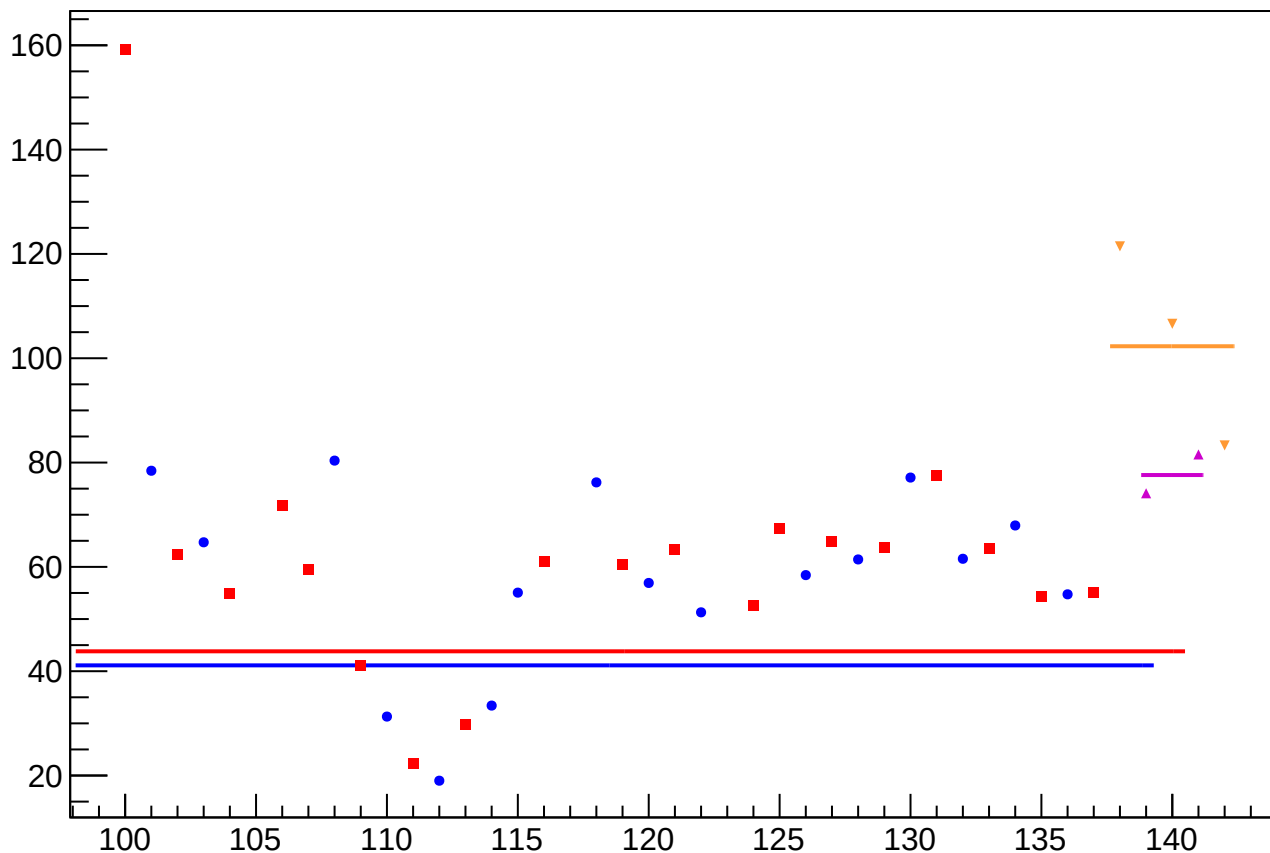
Right: 0.027 $\pm$ 0.013 χ^2 /NDF: 41.2/34

In: 0.049 $\pm$ 0.017 χ^2 /NDF:21.8/17

Out: -0.007 $\pm$ 0.017 χ^2 /NDF:24.8/21

All: 0.022 $\pm$ 0.012 χ^2 /NDF: 51.7/39

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.120+/-0.013 χ^2/NDF : 2925302.3/15

Left Out: 102.300+/-0.053 χ^2/NDF : 83217.2/2

Right Out: 43.813+/-0.013 χ^2/NDF : 2048452.0/18

Left In: 77.610+/-0.043 χ^2/NDF : 7555.7/1

Left: 87.331+/-0.033 χ^2/NDF : 222214.1/4

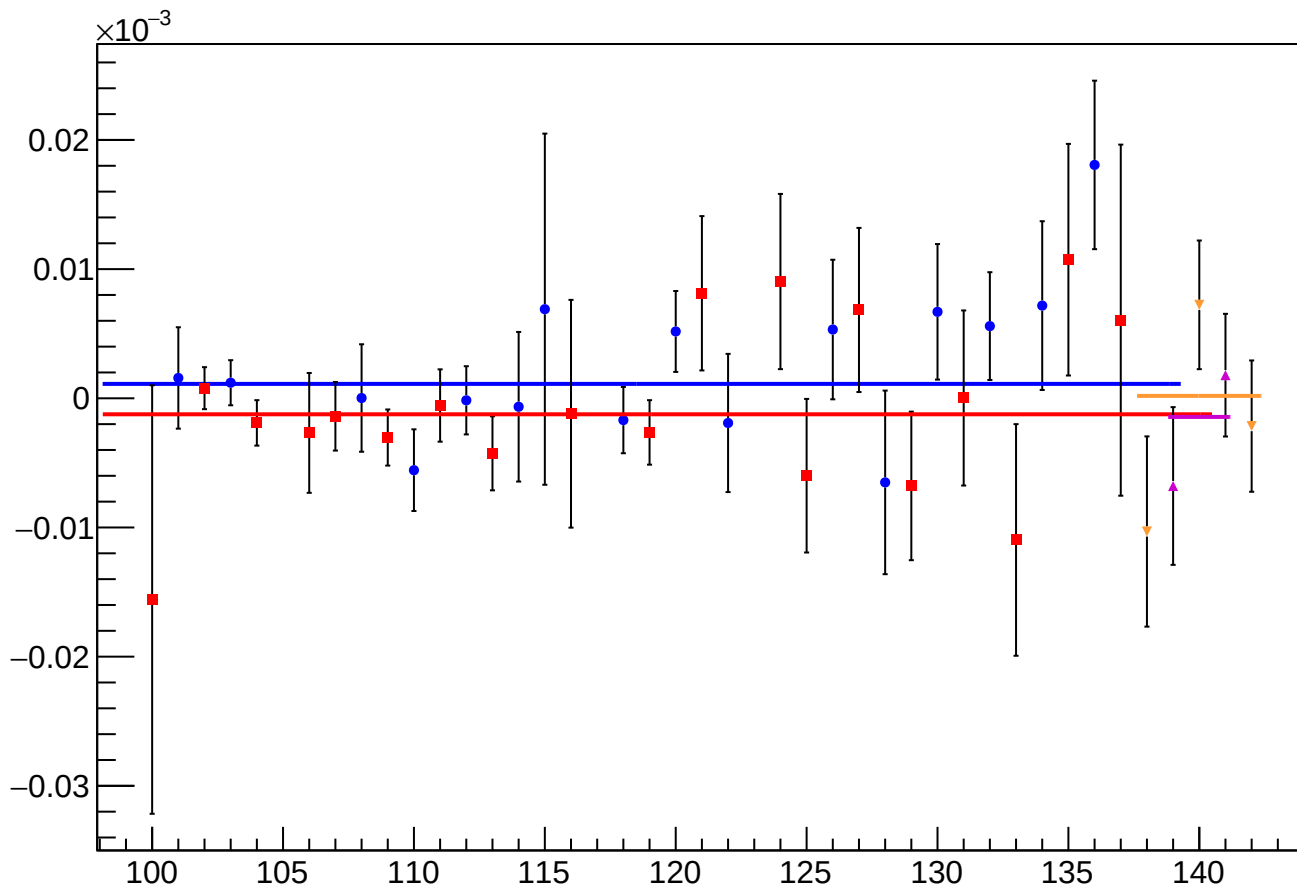
Right: 42.455+/-0.009 χ^2/NDF : 4996519.9/34

In: 44.025+/-0.012 χ^2/NDF : 3604024.3/17

Out: 46.976+/-0.012 χ^2/NDF : 3282510.4/21

All: 45.467+/-0.009 χ^2/NDF : 6915813.2/39

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 19.9/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 4.2/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.9/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF: 1.2/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 5.6/4

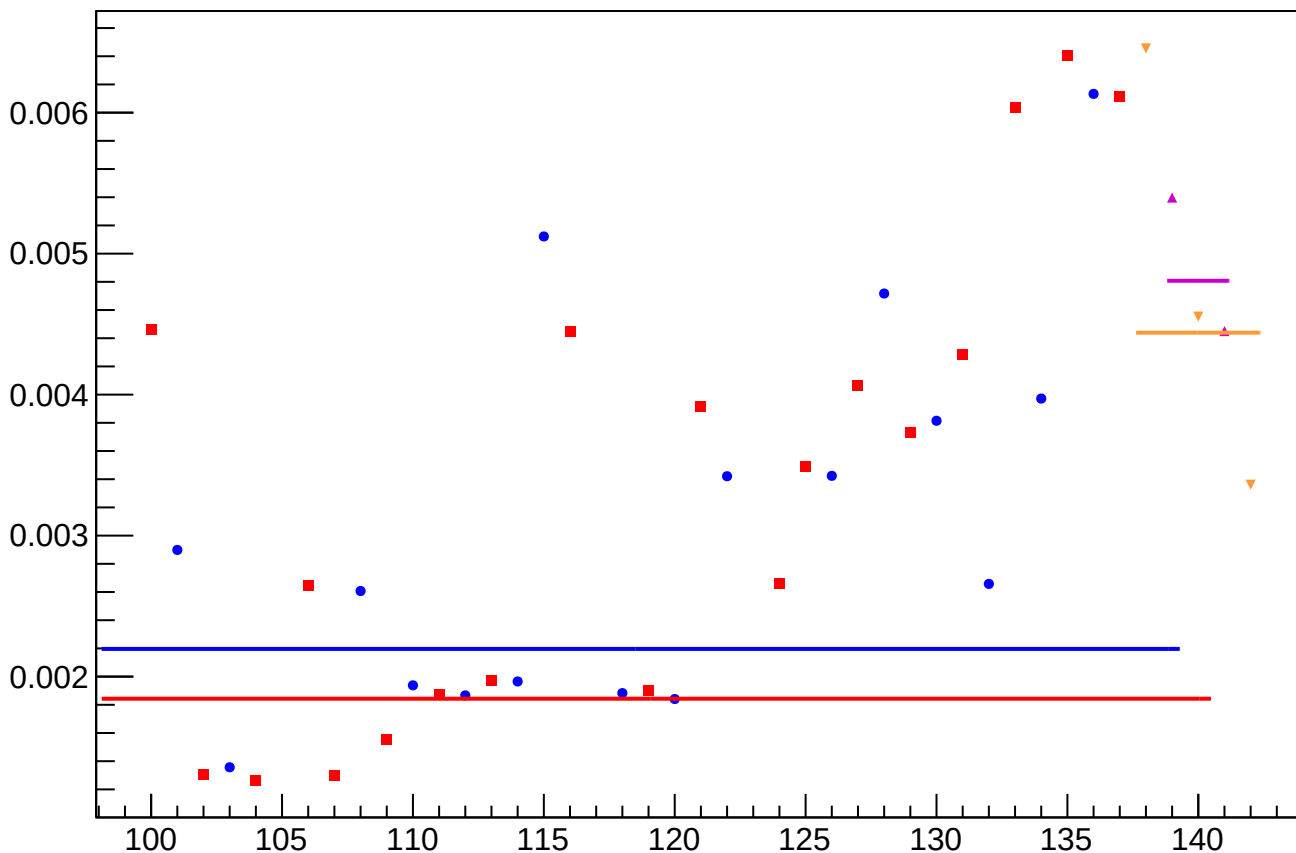
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 39.8/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF: 21.6/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 20.4/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 45.4/39

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2292909.6/15

Left Out: 0.004+/-0.000 χ^2/NDF :241030.4/2

Right Out: 0.002+/-0.000 χ^2/NDF : 3137598.0/18

Left In: 0.005+/-0.000 χ^2/NDF :29983.6/1

Left: 0.005+/-0.000 χ^2/NDF : 282156.5/4

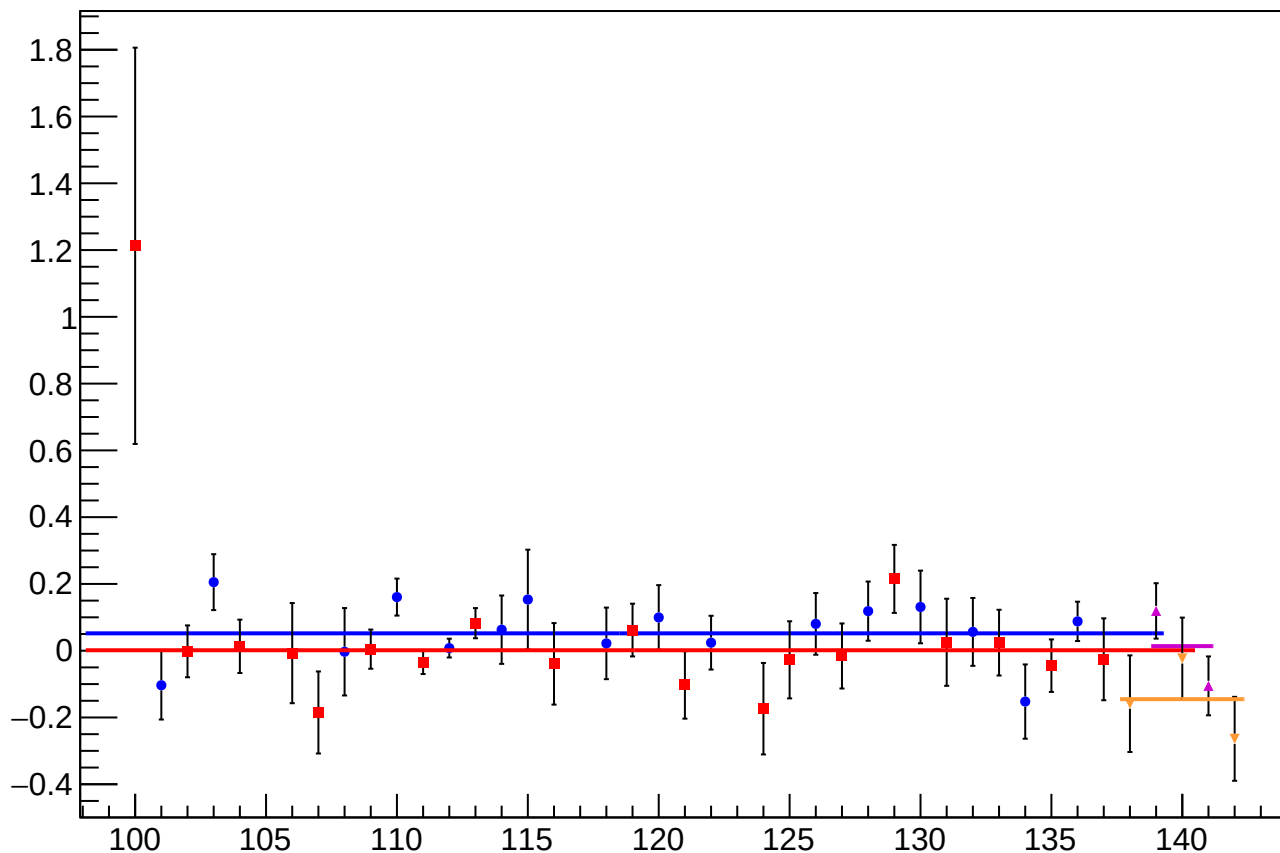
Right: 0.002+/-0.000 χ^2/NDF : 5607793.8/34

In: 0.002+/-0.000 χ^2/NDF :3239726.1/17

Out: 0.002+/-0.000 χ^2/NDF :4622075.2/21

All: 0.002+/-0.000 χ^2/NDF : 8054653.1/39

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.018 χ^2 /NDF: 18.0/15

Left Out: -0.145 $\pm$ 0.075 χ^2 /NDF:1.9/2

Right Out: 0.001 $\pm$ 0.018 χ^2 /NDF: 19.2/18

Left In: 0.014 $\pm$ 0.060 χ^2 /NDF:3.4/1

Left: -0.049 $\pm$ 0.047 χ^2 /NDF: 8.1/4

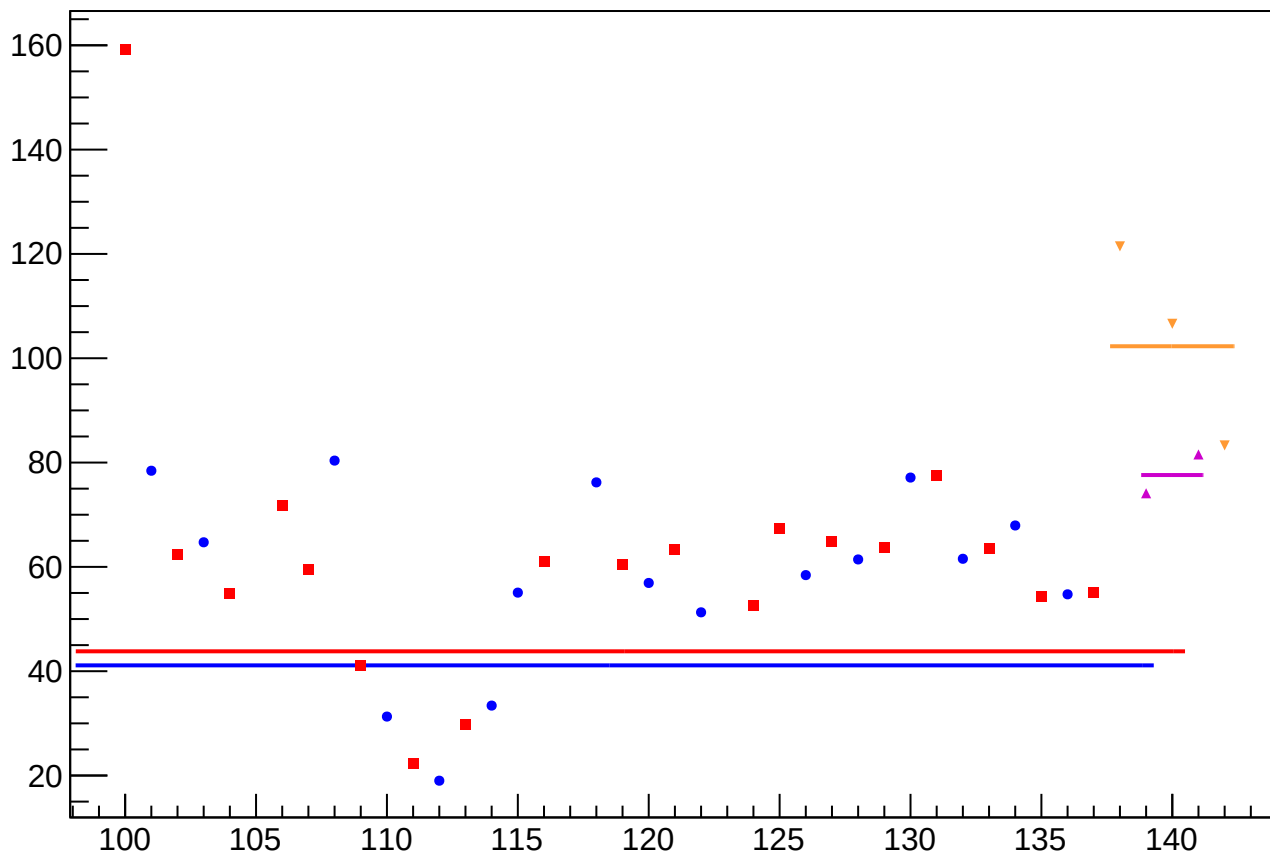
Right: 0.027 $\pm$ 0.013 χ^2 /NDF: 41.2/34

In: 0.049 $\pm$ 0.017 χ^2 /NDF:21.8/17

Out: -0.007 $\pm$ 0.017 χ^2 /NDF:24.8/21

All: 0.022 $\pm$ 0.012 χ^2 /NDF: 51.7/39

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.119+/-0.013 χ^2/NDF : 2925464.8/15

Left Out: 102.300+/-0.053 χ^2/NDF : 83208.8/2

Right Out: 43.813+/-0.013 χ^2/NDF : 2048627.9/18

Left In: 77.610+/-0.043 χ^2/NDF : 7558.9/1

Left: 87.331+/-0.033 χ^2/NDF : 222215.5/4

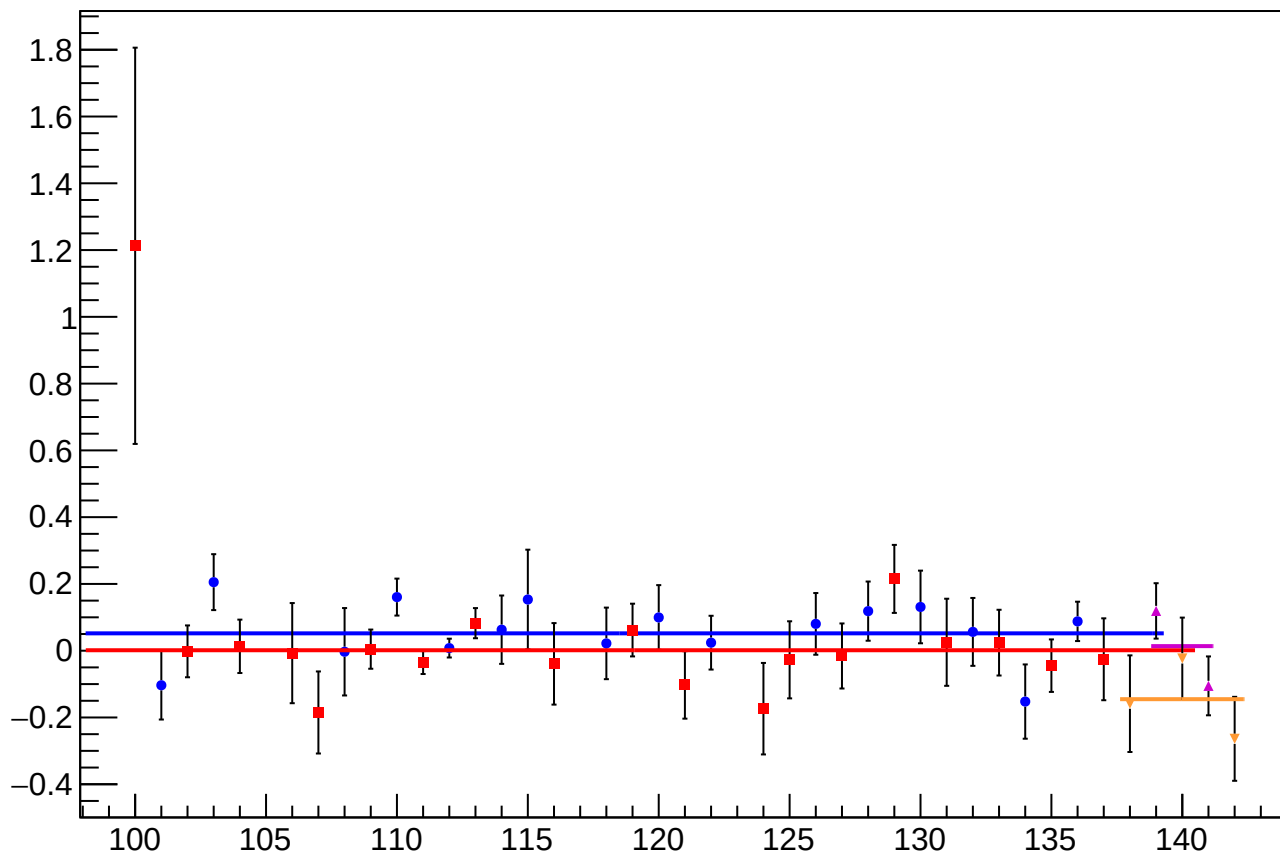
Right: 42.454+/-0.009 χ^2/NDF : 4996859.3/34

In: 44.024+/-0.012 χ^2/NDF : 3604219.8/17

Out: 46.975+/-0.012 χ^2/NDF : 3282723.5/21

All: 45.466+/-0.009 χ^2/NDF : 6916222.8/39

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.018 χ^2 /NDF: 18.0/15

Left Out: -0.145 $\pm$ 0.075 χ^2 /NDF:1.9/2

Right Out: 0.001 $\pm$ 0.018 χ^2 /NDF: 19.2/18

Left In: 0.014 $\pm$ 0.060 χ^2 /NDF:3.4/1

Left: -0.049 $\pm$ 0.047 χ^2 /NDF: 8.1/4

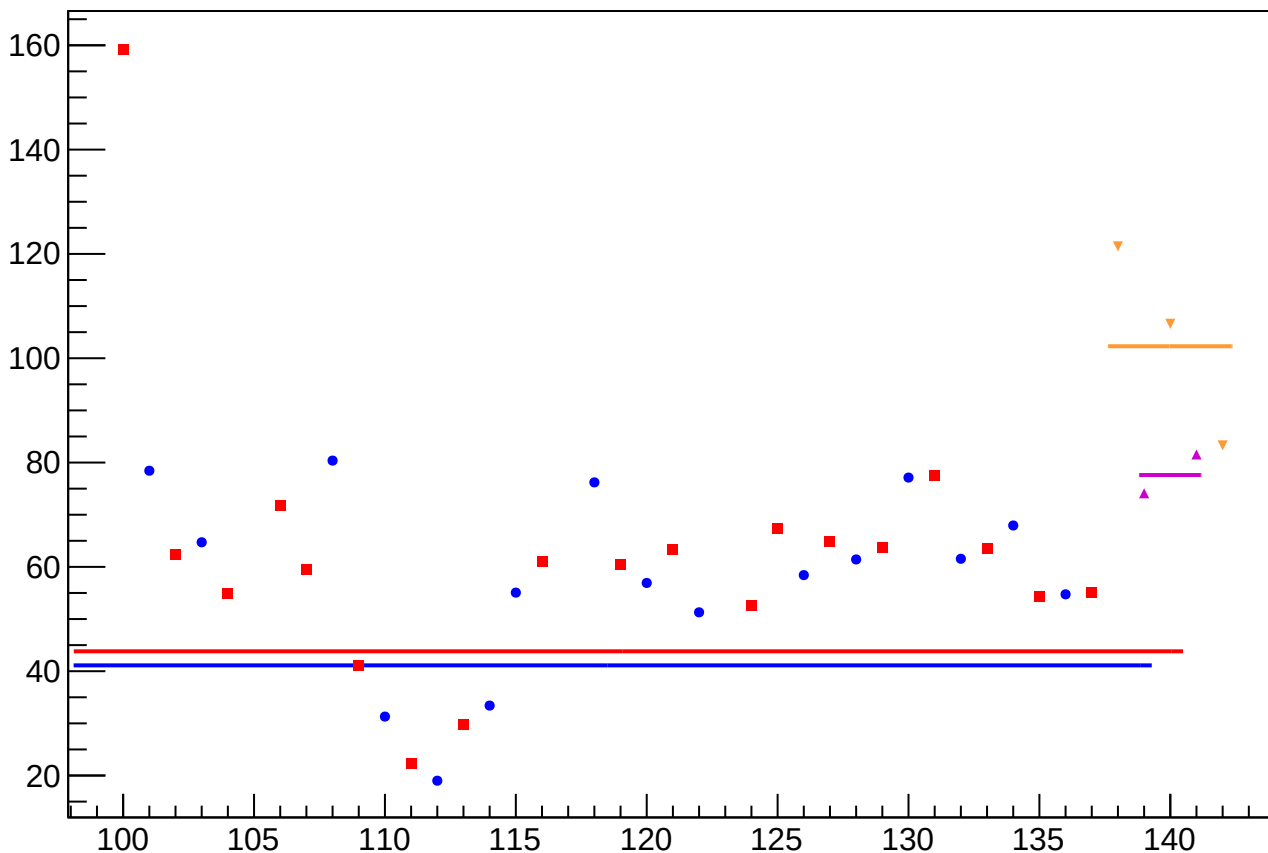
Right: 0.027 $\pm$ 0.013 χ^2 /NDF: 41.2/34

In: 0.049 $\pm$ 0.017 χ^2 /NDF:21.8/17

Out: -0.007 $\pm$ 0.017 χ^2 /NDF:24.8/21

All: 0.022 $\pm$ 0.012 χ^2 /NDF: 51.7/39

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.119+/-0.013 χ^2/NDF : 2925464.8/15

Left Out: 102.300+/-0.053 χ^2/NDF : 83208.8/2

Right Out: 43.813+/-0.013 χ^2/NDF : 2048627.9/18

Left In: 77.610+/-0.043 χ^2/NDF : 7558.9/1

Left: 87.331+/-0.033 χ^2/NDF : 222215.5/4

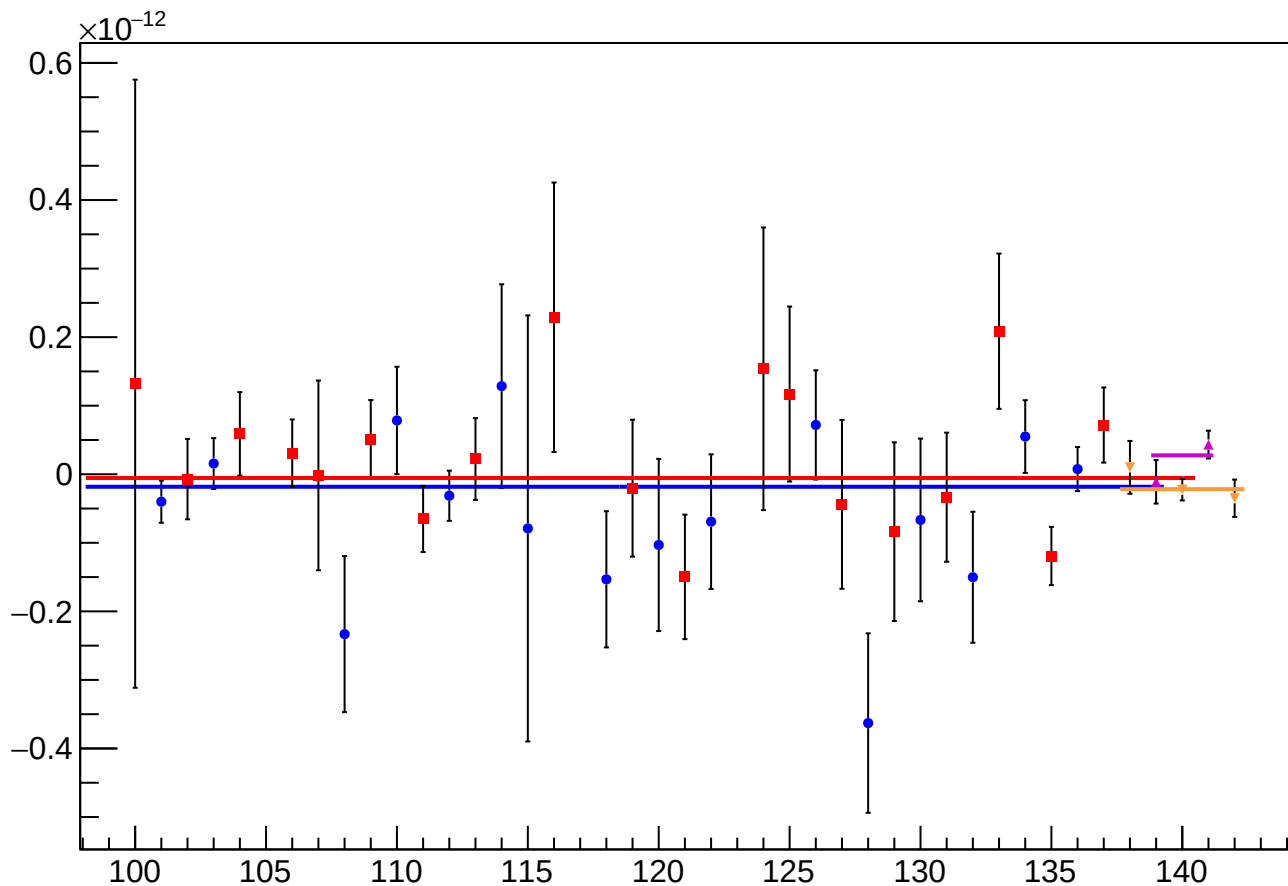
Right: 42.454+/-0.009 χ^2/NDF : 4996859.3/34

In: 44.024+/-0.012 χ^2/NDF : 3604219.8/17

Out: 46.975+/-0.012 χ^2/NDF : 3282723.5/21

All: 45.466+/-0.009 χ^2/NDF : 6916222.8/39

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 23.0/15

Left Out: -0.000+/-0.000 χ^2 /NDF:0.9/2

Right Out: -0.000+/-0.000 χ^2 /NDF: 23.3/18

Left In: 0.000+/-0.000 χ^2 /NDF:2.1/1

Left: -0.000+/-0.000 χ^2 /NDF: 8.3/4

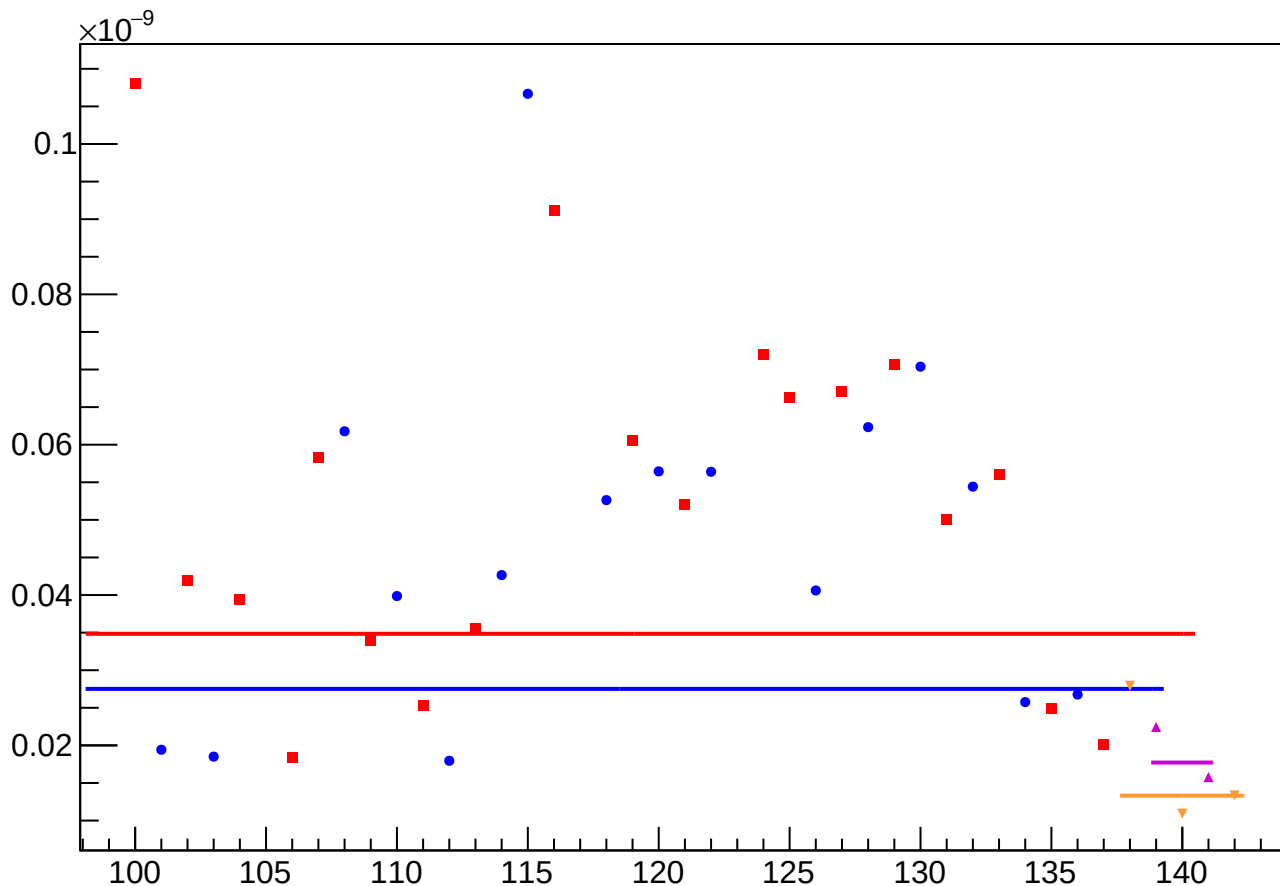
Right: -0.000+/-0.000 χ^2 /NDF: 46.6/34

In: 0.000+/-0.000 χ^2 /NDF:29.3/17

Out: -0.000+/-0.000 χ^2 /NDF:24.8/21

All: -0.000+/-0.000 χ^2 /NDF: 55.3/39

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1799776.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 335408.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1676246.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 62883.6/1

Left: 0.000+/-0.000 χ^2/NDF : 483535.4/4

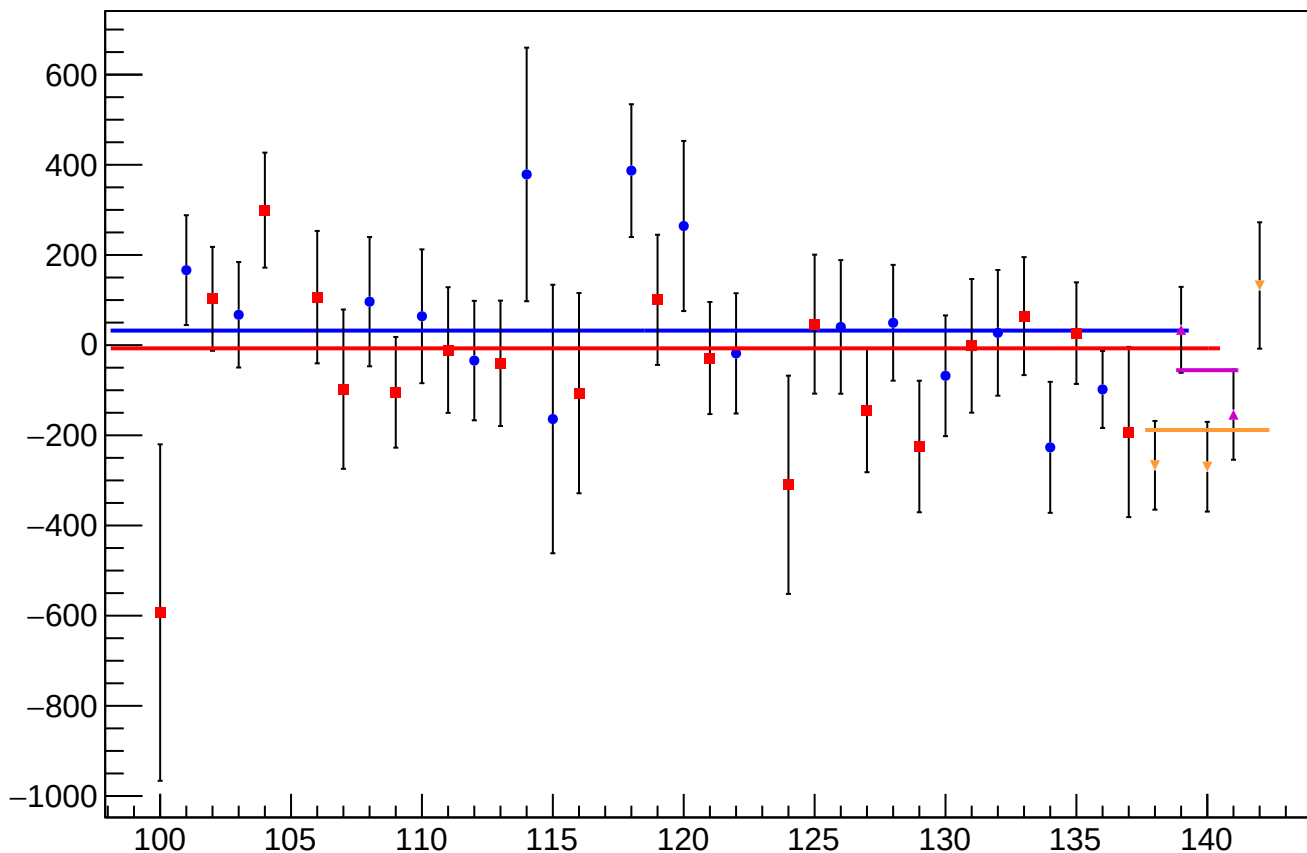
Right: 0.000+/-0.000 χ^2/NDF : 3696738.0/34

In: 0.000+/-0.000 χ^2/NDF : 2247864.1/17

Out: 0.000+/-0.000 χ^2/NDF : 4111644.5/21

All: 0.000+/-0.000 χ^2/NDF : 6401864.5/39

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 32.297+/-34.429 χ^2/NDF : 17.3/15

Left Out: -188.205+/-62.592 χ^2/NDF : 6.5/2

Right Out: -7.070+/-33.420 χ^2/NDF : 17.8/18

Left In: -55.523+/-68.969 χ^2/NDF : 1.9/1

Left: -128.281+/-46.350 χ^2/NDF : 10.4/4

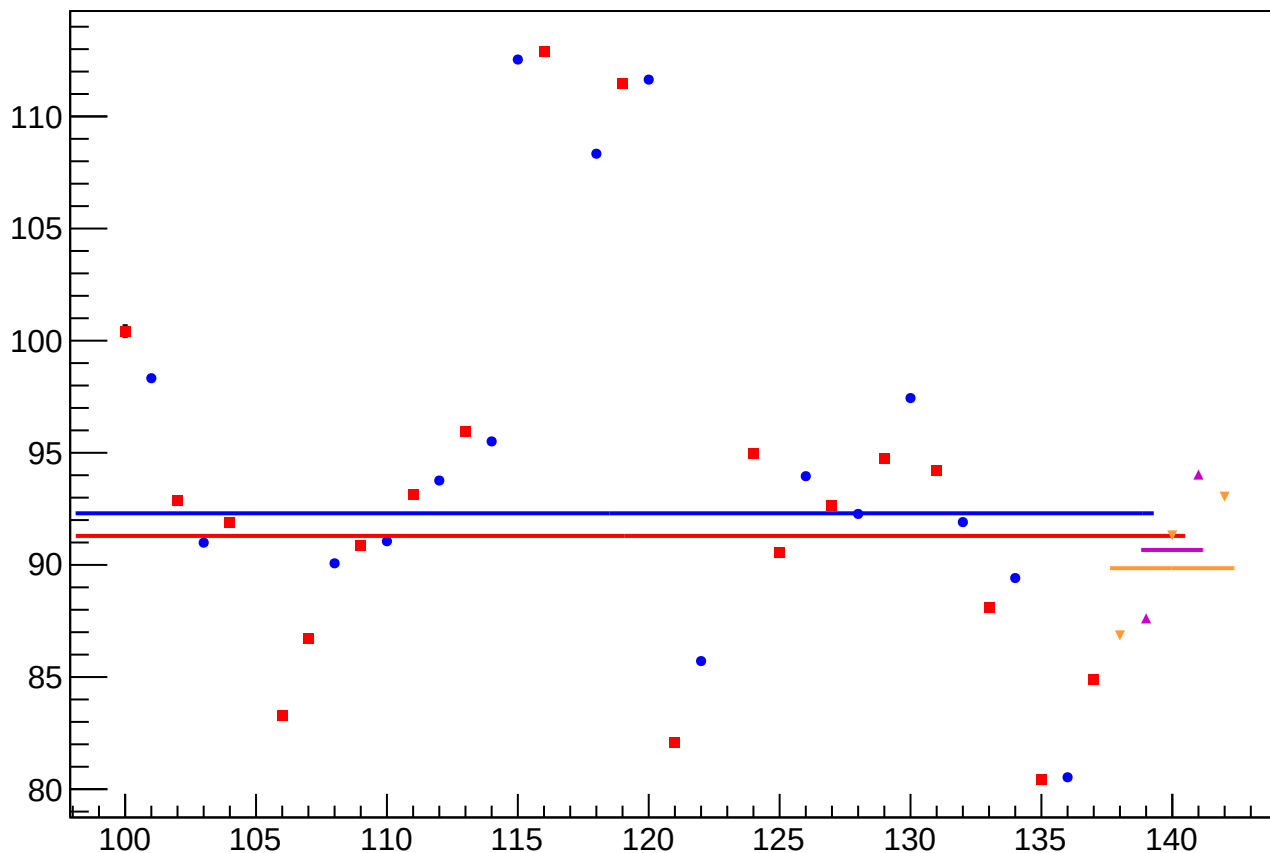
Right: 12.028+/-23.980 χ^2/NDF : 35.7/34

In: 14.779+/-30.804 χ^2/NDF : 20.5/17

Out: -47.253+/-29.481 χ^2/NDF : 30.8/21

All: -17.598+/-21.298 χ^2/NDF : 53.4/39

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 92.302 $\pm$ 0.024 χ^2 /NDF: 107066.1/15

Left Out: 89.855 $\pm$ 0.044 χ^2 /NDF:3323.4/2

Right Out: 91.294 $\pm$ 0.024 χ^2 /NDF: 105096.6/18

Left In: 90.667 $\pm$ 0.049 χ^2 /NDF:4313.4/1

Left: 90.221 $\pm$ 0.033 χ^2 /NDF: 7788.8/4

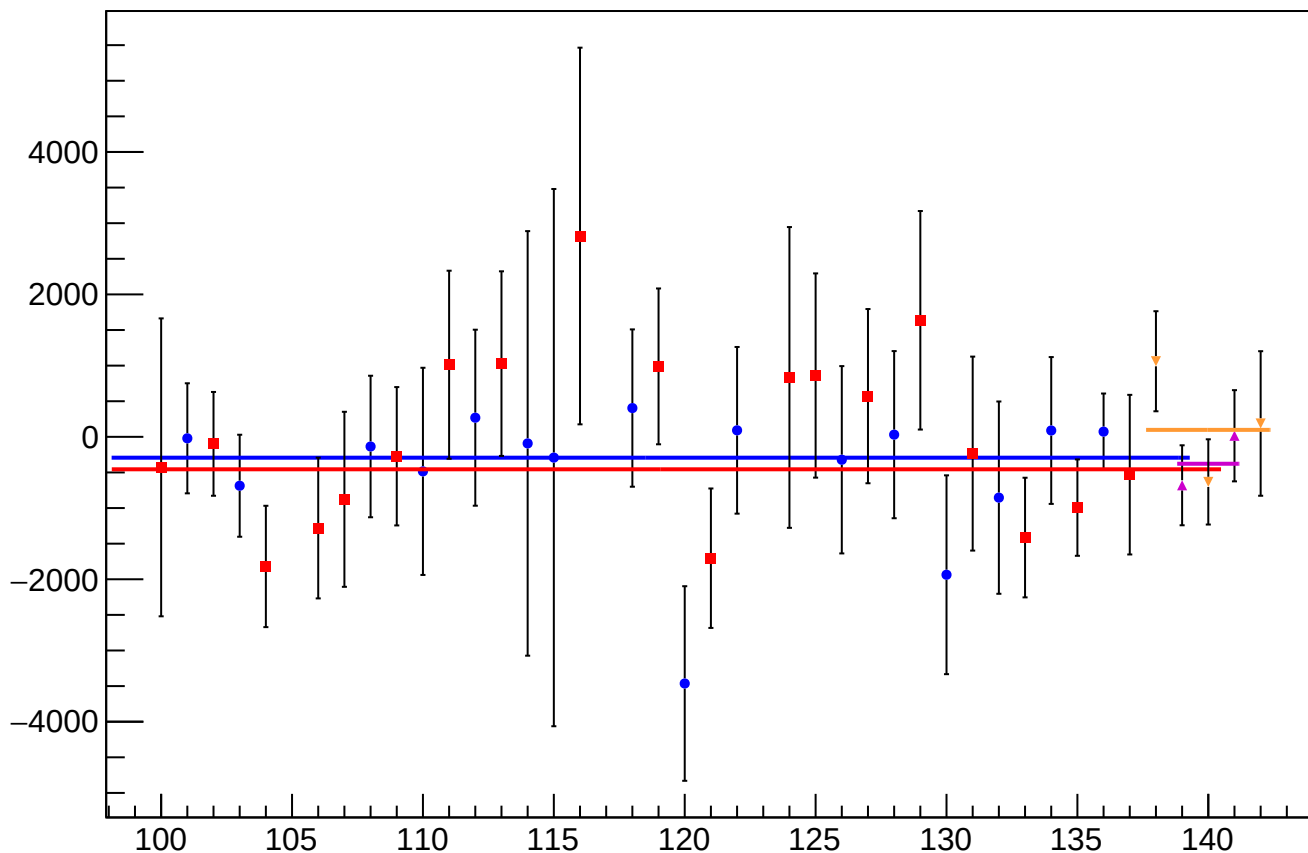
Right: 91.783 $\pm$ 0.017 χ^2 /NDF: 213046.7/34

In: 91.976 $\pm$ 0.022 χ^2 /NDF:112280.1/17

Out: 90.974 $\pm$ 0.021 χ^2 /NDF:109242.6/21

All: 91.453 $\pm$ 0.015 χ^2 /NDF: 222626.4/39

asym_sam_15_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -292.756 ± 259.692 χ^2/NDF : 8.8/15

Left Out: 97.759 ± 415.628 χ^2/NDF : 3.4/2

Right Out: -455.830 ± 248.717 χ^2/NDF : 16.9/18

Left In: -377.944 ± 422.177 χ^2/NDF : 0.7/1

Left: -136.374 ± 296.182 χ^2/NDF : 4.7/4

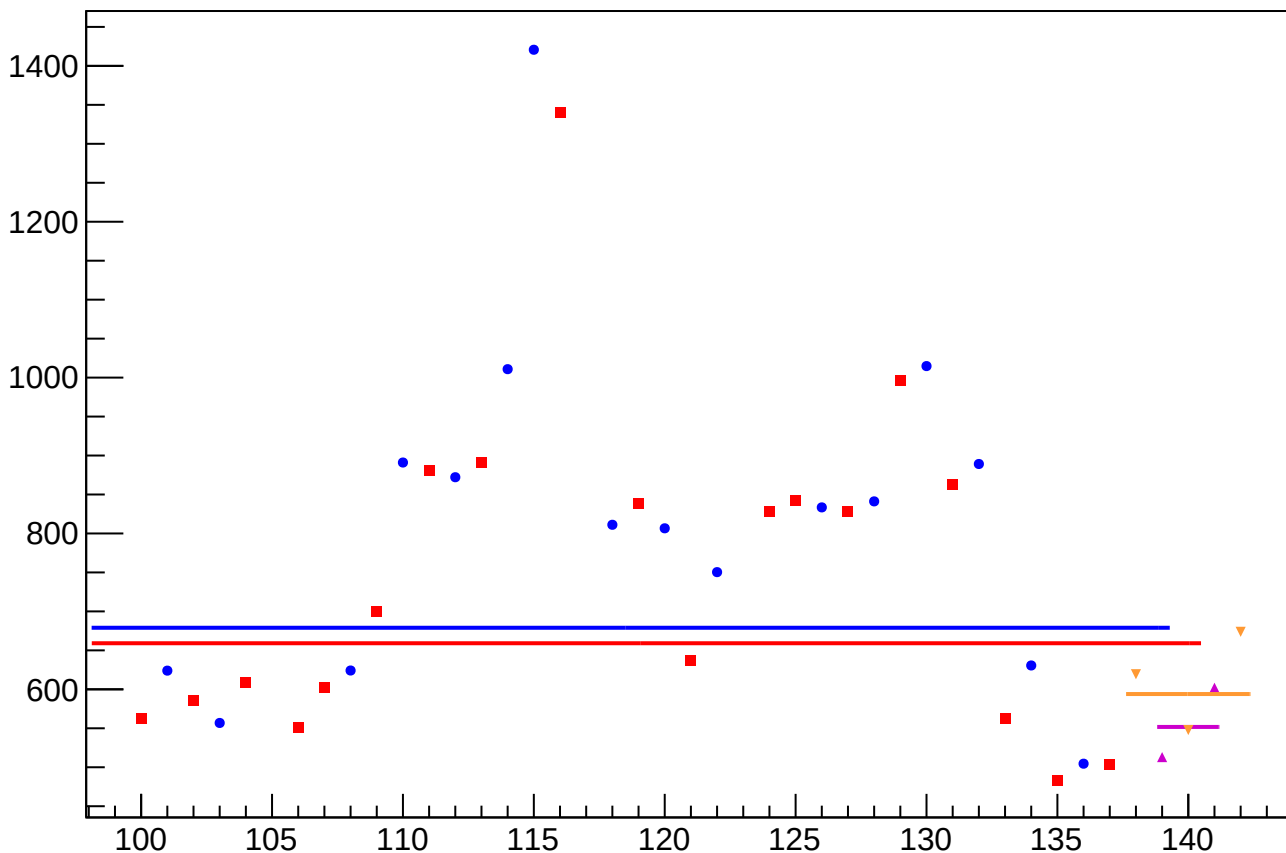
Right: -377.812 ± 179.624 χ^2/NDF : 25.9/34

In: -316.141 ± 221.195 χ^2/NDF : 9.5/17

Out: -309.862 ± 213.422 χ^2/NDF : 21.5/21

All: -312.889 ± 153.587 χ^2/NDF : 31.0/39

asym_sam_15_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 679.003+/-0.184 χ^2/NDF : 767983.3/15

Left Out: 593.957+/-0.294 χ^2/NDF : 26906.9/2

Right Out: 659.133+/-0.176 χ^2/NDF : 795877.7/18

Left In: 551.739+/-0.299 χ^2/NDF : 21856.8/1

Left: 573.178+/-0.209 χ^2/NDF : 58920.5/4

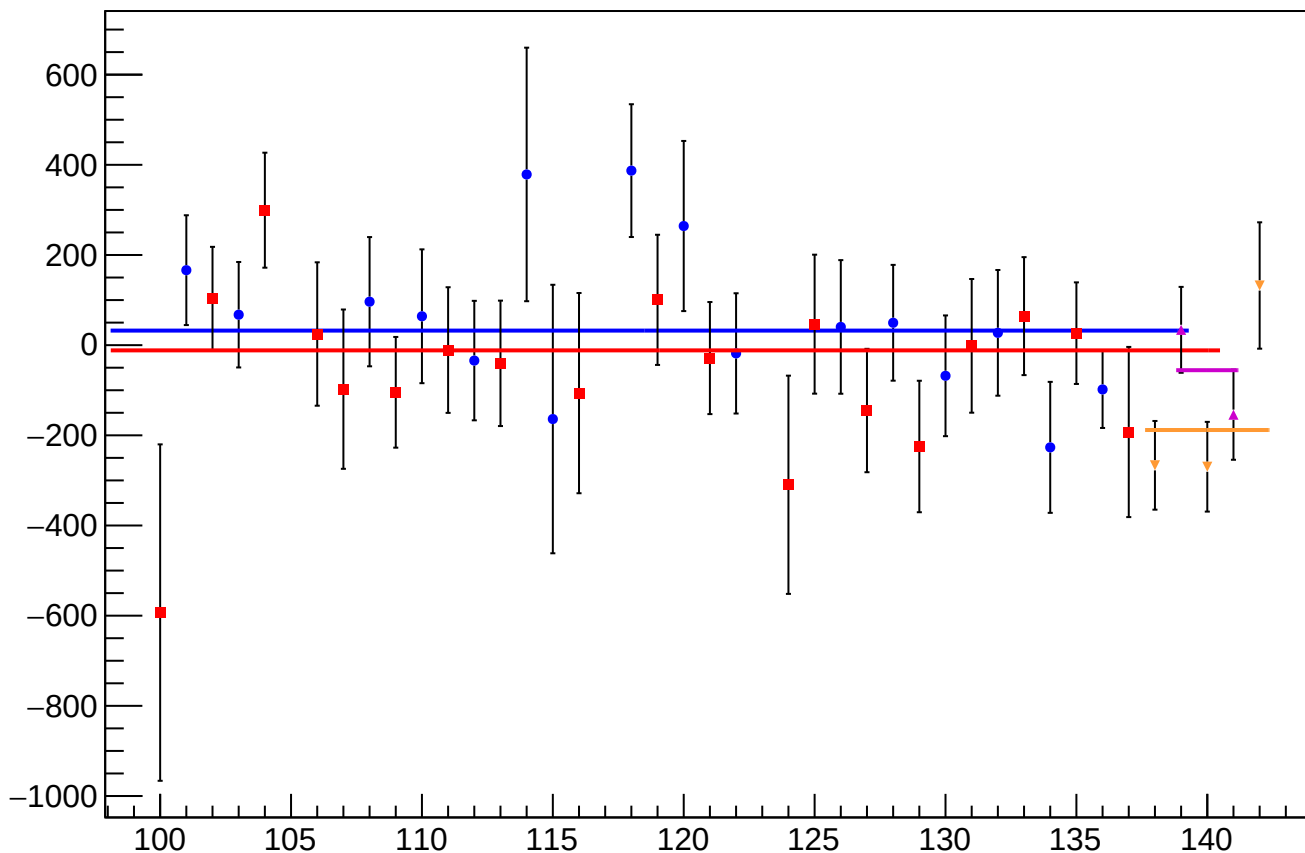
Right: 668.639+/-0.127 χ^2/NDF : 1569967.8/34

In: 644.068+/-0.156 χ^2/NDF : 921691.8/17

Out: 641.948+/-0.151 χ^2/NDF : 858997.5/21

All: 642.970+/-0.109 χ^2/NDF : 1780784.4/39

cor_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 32.312 $\pm$ 34.429 χ^2 /NDF: 17.3/15

Left Out: -188.201 $\pm$ 62.592 χ^2 /NDF:6.5/2

Right Out: -11.576 $\pm$ 33.548 χ^2 /NDF: 17.2/18

Left In: -55.526 $\pm$ 68.969 χ^2 /NDF:1.9/1

Left: -128.280 $\pm$ 46.350 χ^2 /NDF: 10.4/4

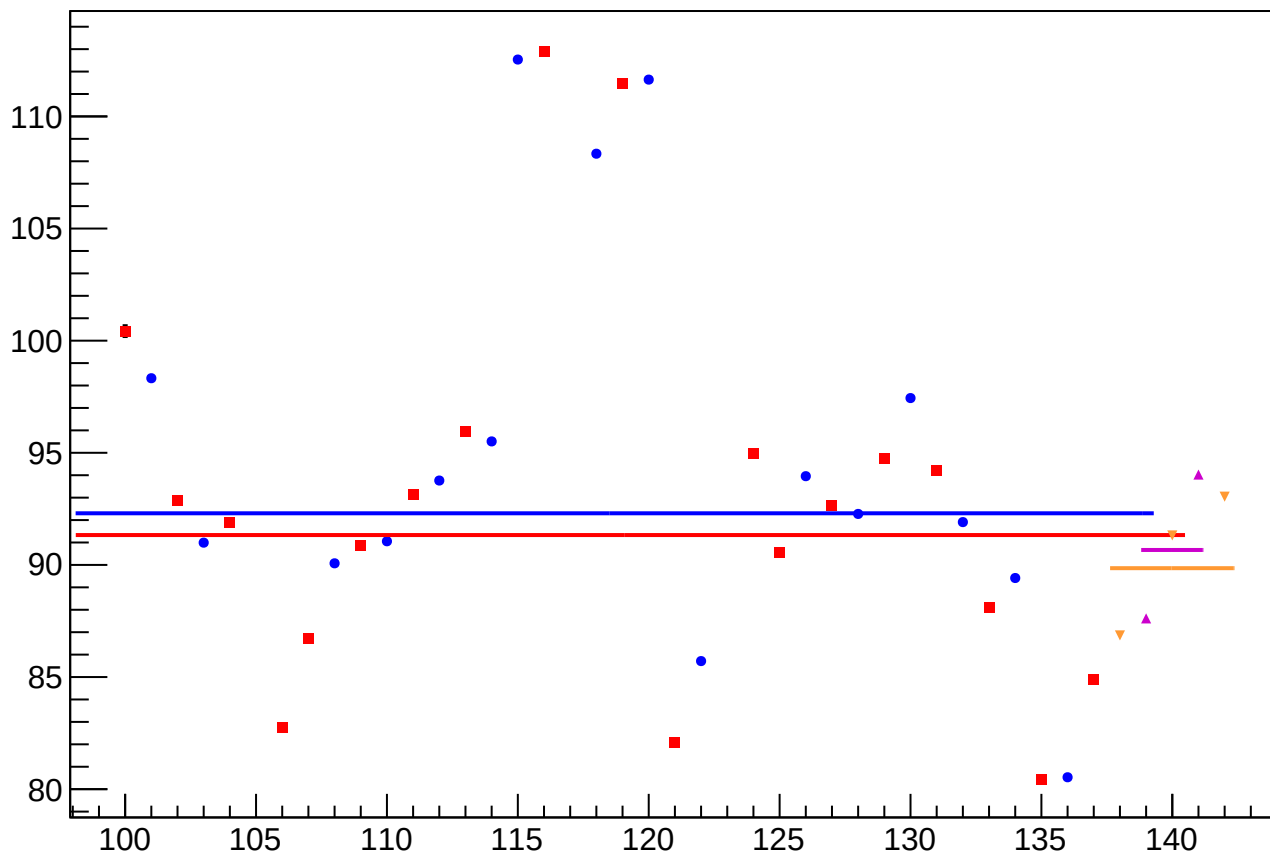
Right: 9.800 $\pm$ 24.028 χ^2 /NDF: 35.3/34

In: 14.790 $\pm$ 30.804 χ^2 /NDF:20.5/17

Out: -50.993 $\pm$ 29.569 χ^2 /NDF:29.9/21

All: -19.447 $\pm$ 21.332 χ^2 /NDF: 52.7/39

cor_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 92.302 $\pm$ 0.024 χ^2 /NDF: 107066.1/15

Left Out: 89.855 $\pm$ 0.044 χ^2 /NDF:3323.4/2

Right Out: 91.332 $\pm$ 0.024 χ^2 /NDF: 104918.3/18

Left In: 90.667 $\pm$ 0.049 χ^2 /NDF:4313.4/1

Left: 90.221 $\pm$ 0.033 χ^2 /NDF: 7788.8/4

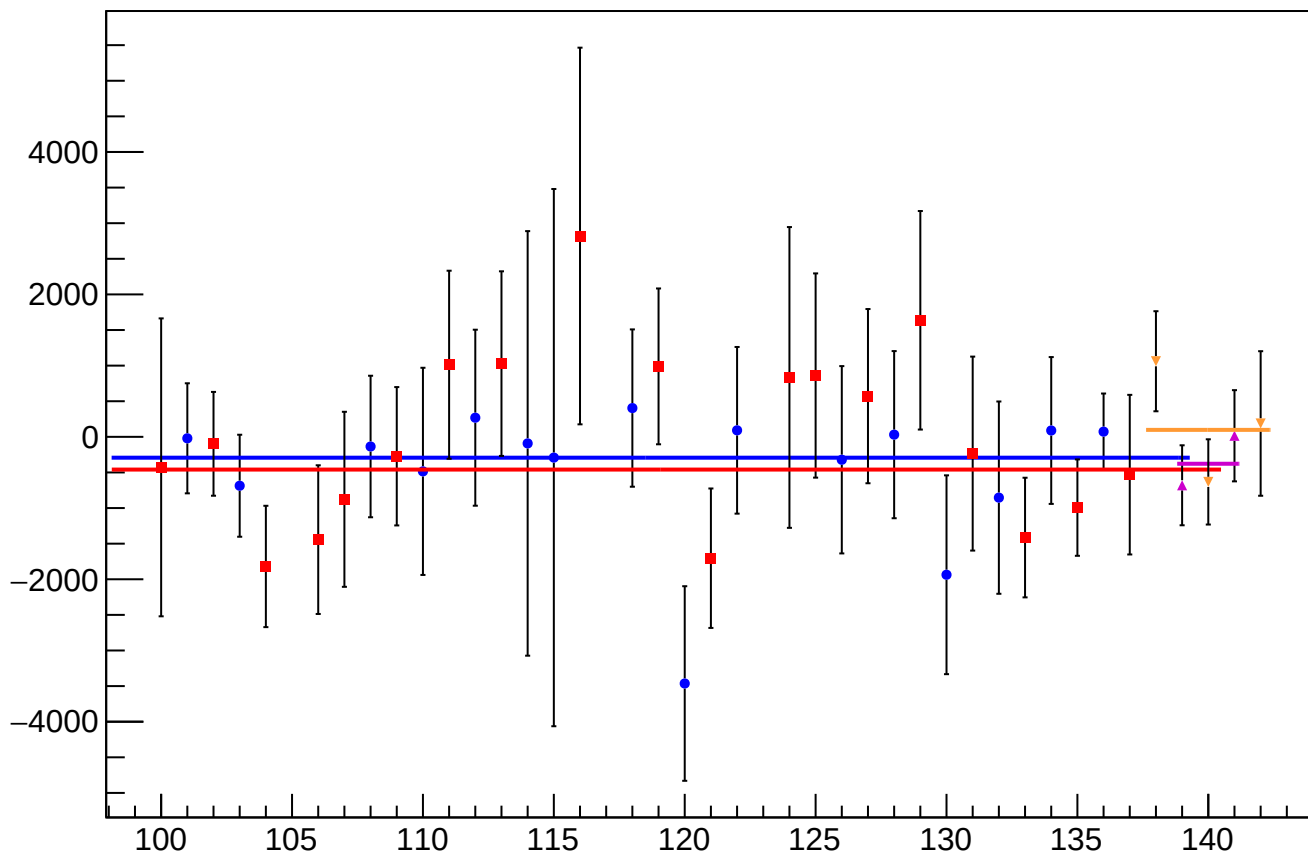
Right: 91.805 $\pm$ 0.017 χ^2 /NDF: 212799.4/34

In: 91.976 $\pm$ 0.022 χ^2 /NDF:112280.1/17

Out: 91.002 $\pm$ 0.021 χ^2 /NDF:109107.2/21

All: 91.469 $\pm$ 0.015 χ^2 /NDF: 222427.5/39

asym_sam_15_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -292.753 ± 259.692 χ^2/NDF : 8.8/15

Left Out: 97.759 ± 415.628 χ^2/NDF : 3.4/2

Right Out: -459.595 ± 249.543 χ^2/NDF : 17.1/18

Left In: -377.941 ± 422.177 χ^2/NDF : 0.7/1

Left: -136.373 ± 296.182 χ^2/NDF : 4.7/4

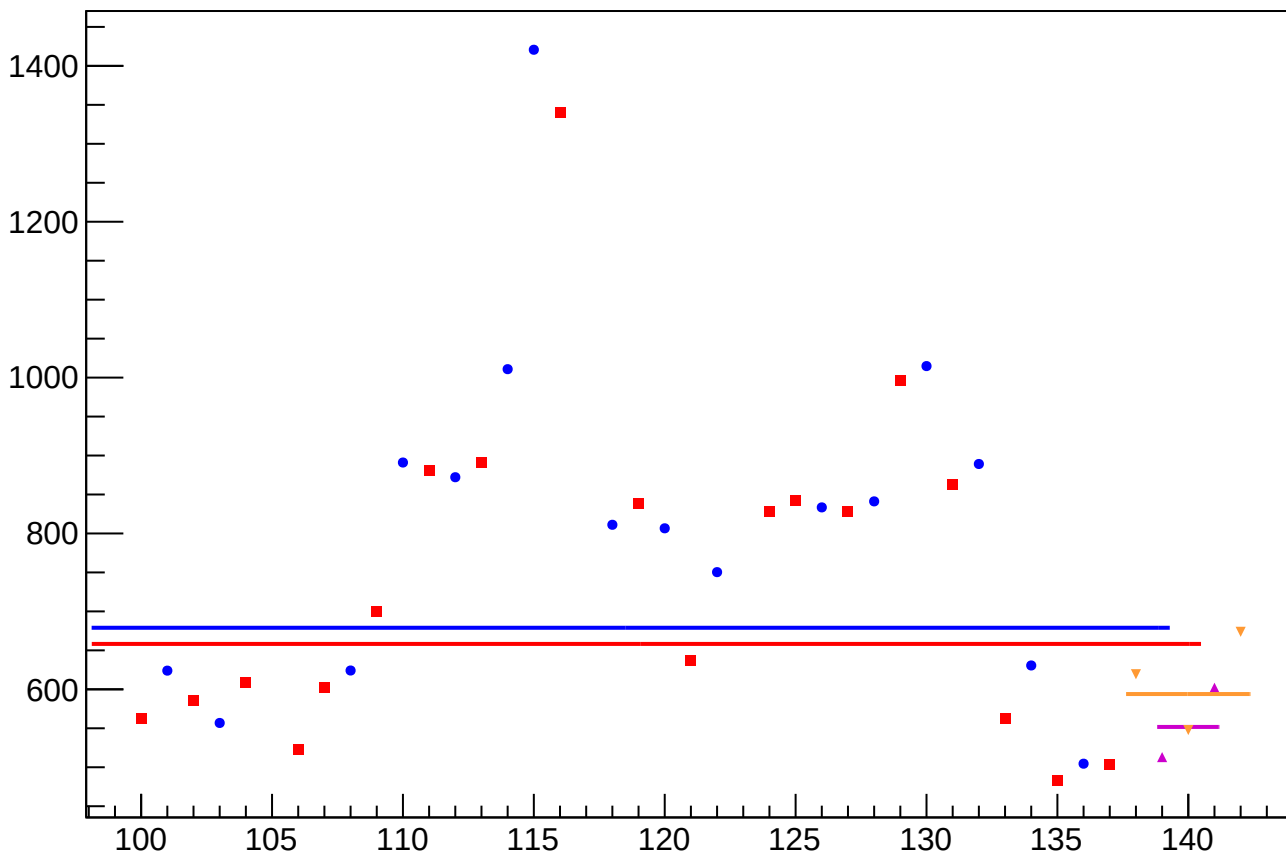
Right: -379.498 ± 179.935 χ^2/NDF : 26.1/34

In: -316.138 ± 221.194 χ^2/NDF : 9.5/17

Out: -311.916 ± 213.944 χ^2/NDF : 21.8/21

All: -313.957 ± 153.780 χ^2/NDF : 31.3/39

asym_sam_15_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 679.003+/-0.184 χ^2/NDF : 767985.6/15

Left Out: 593.957+/-0.294 χ^2/NDF : 26906.8/2

Right Out: 658.262+/-0.176 χ^2/NDF : 805898.2/18

Left In: 551.739+/-0.299 χ^2/NDF : 21856.7/1

Left: 573.178+/-0.209 χ^2/NDF : 58920.2/4

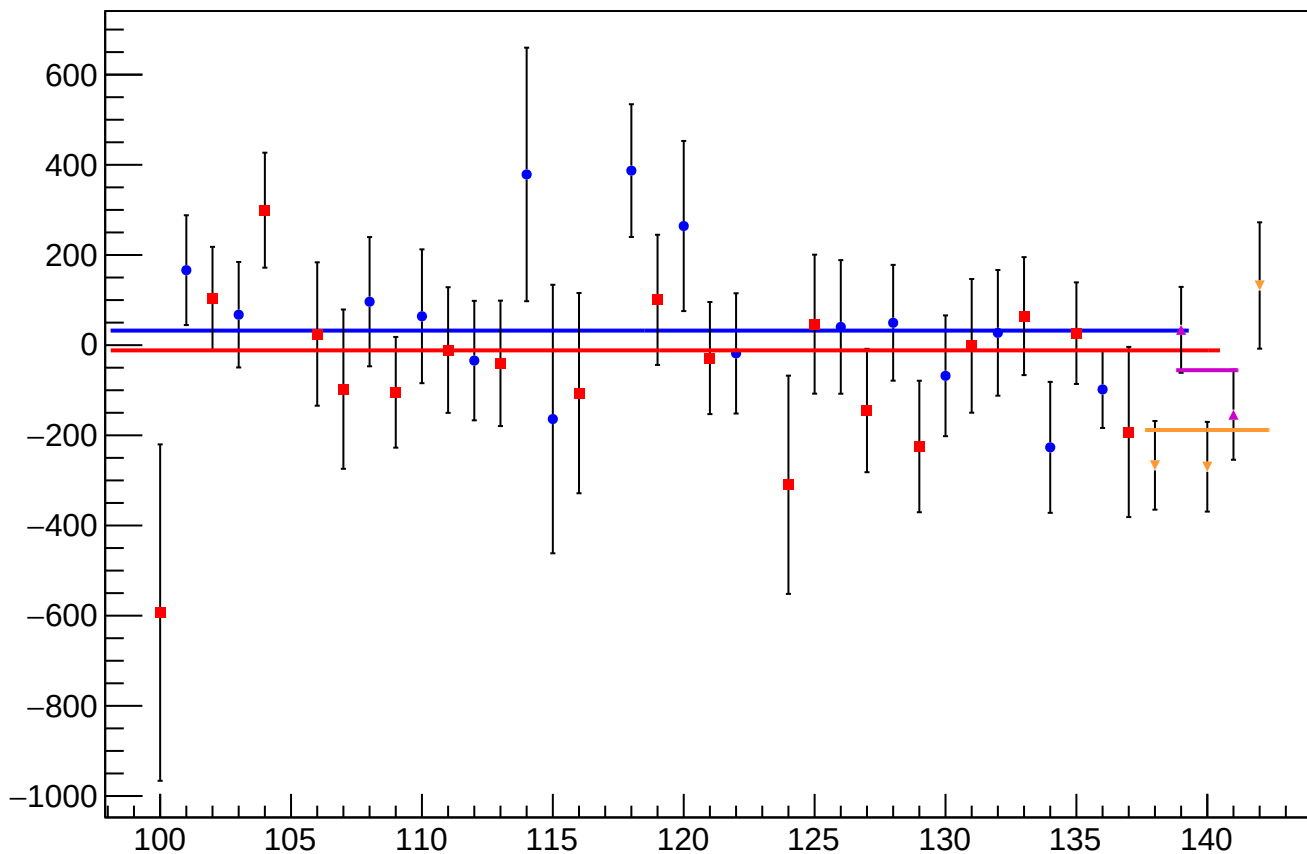
Right: 668.219+/-0.127 χ^2/NDF : 1580516.6/34

In: 644.067+/-0.156 χ^2/NDF : 921693.3/17

Out: 641.223+/-0.151 χ^2/NDF : 867994.4/21

All: 642.598+/-0.109 χ^2/NDF : 1789858.6/39

eigen_cor_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 32.312 $\pm$ 34.429 χ^2 /NDF: 17.3/15

Left Out: -188.201 $\pm$ 62.592 χ^2 /NDF:6.5/2

Right Out: -11.576 $\pm$ 33.548 χ^2 /NDF: 17.2/18

Left In: -55.526 $\pm$ 68.969 χ^2 /NDF:1.9/1

Left: -128.280 $\pm$ 46.350 χ^2 /NDF: 10.4/4

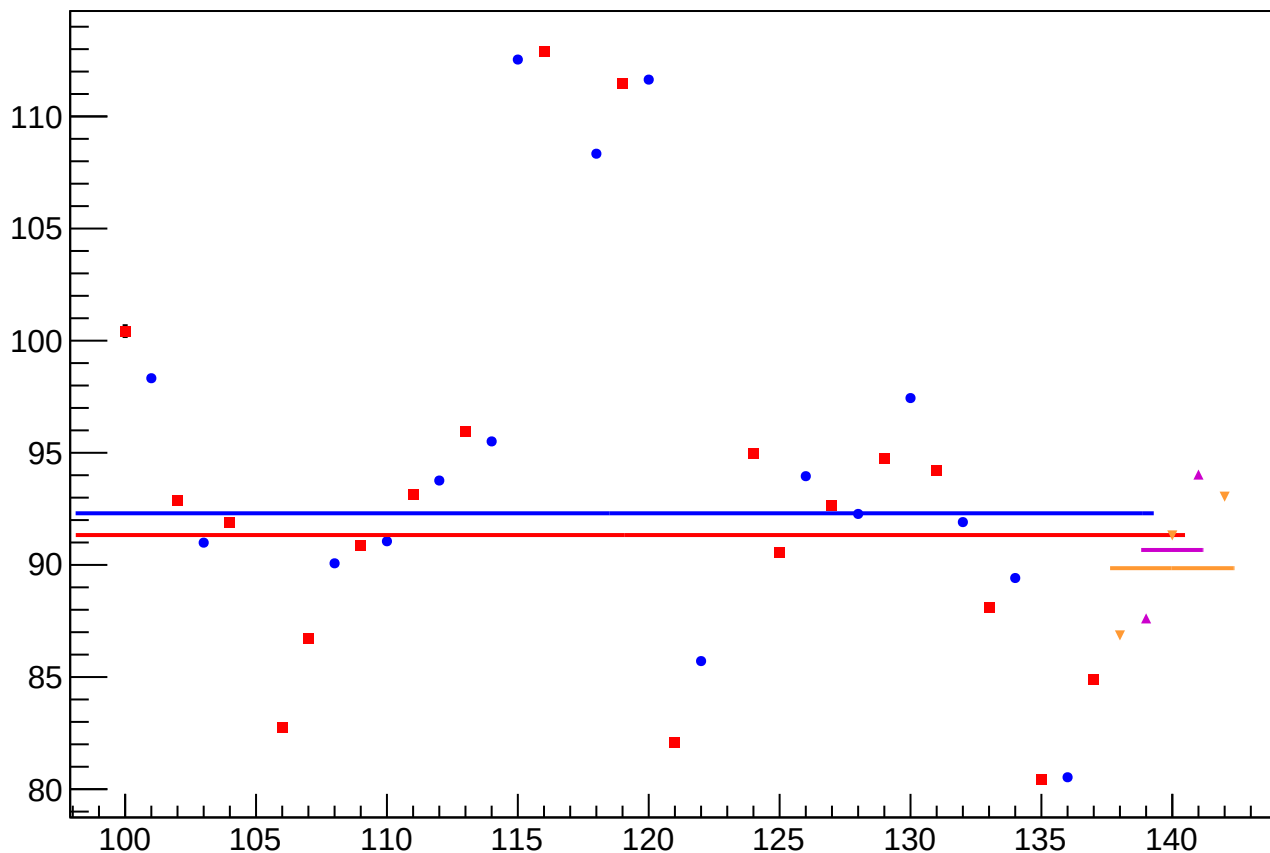
Right: 9.800 $\pm$ 24.028 χ^2 /NDF: 35.3/34

In: 14.790 $\pm$ 30.804 χ^2 /NDF:20.5/17

Out: -50.993 $\pm$ 29.569 χ^2 /NDF:29.9/21

All: -19.447 $\pm$ 21.332 χ^2 /NDF: 52.7/39

eigen_cor_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 92.302+/-0.024 χ^2/NDF : 107066.1/15

Left Out: 89.855+/-0.044 χ^2/NDF : 3323.4/2

Right Out: 91.332+/-0.024 χ^2/NDF : 104918.3/18

Left In: 90.667+/-0.049 χ^2/NDF : 4313.4/1

Left: 90.221+/-0.033 χ^2/NDF : 7788.8/4

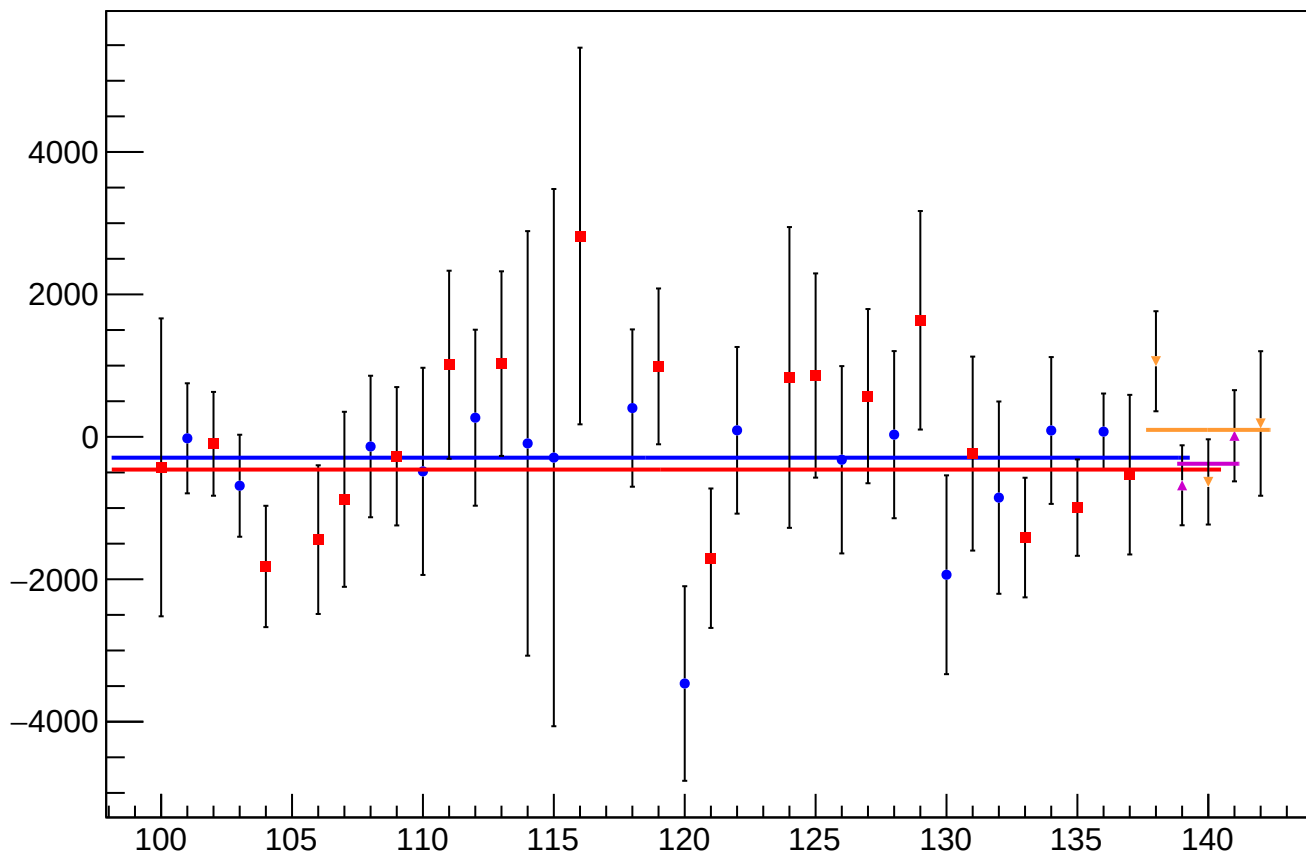
Right: 91.805+/-0.017 χ^2/NDF : 212799.4/34

In: 91.976+/-0.022 χ^2/NDF : 112280.1/17

Out: 91.002+/-0.021 χ^2/NDF : 109107.2/21

All: 91.469+/-0.015 χ^2/NDF : 222427.5/39

asym_sam_15_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -292.753 ± 259.692 χ^2/NDF : 8.8/15

Left Out: 97.759 ± 415.628 χ^2/NDF : 3.4/2

Right Out: -459.595 ± 249.543 χ^2/NDF : 17.1/18

Left In: -377.941 ± 422.177 χ^2/NDF : 0.7/1

Left: -136.373 ± 296.182 χ^2/NDF : 4.7/4

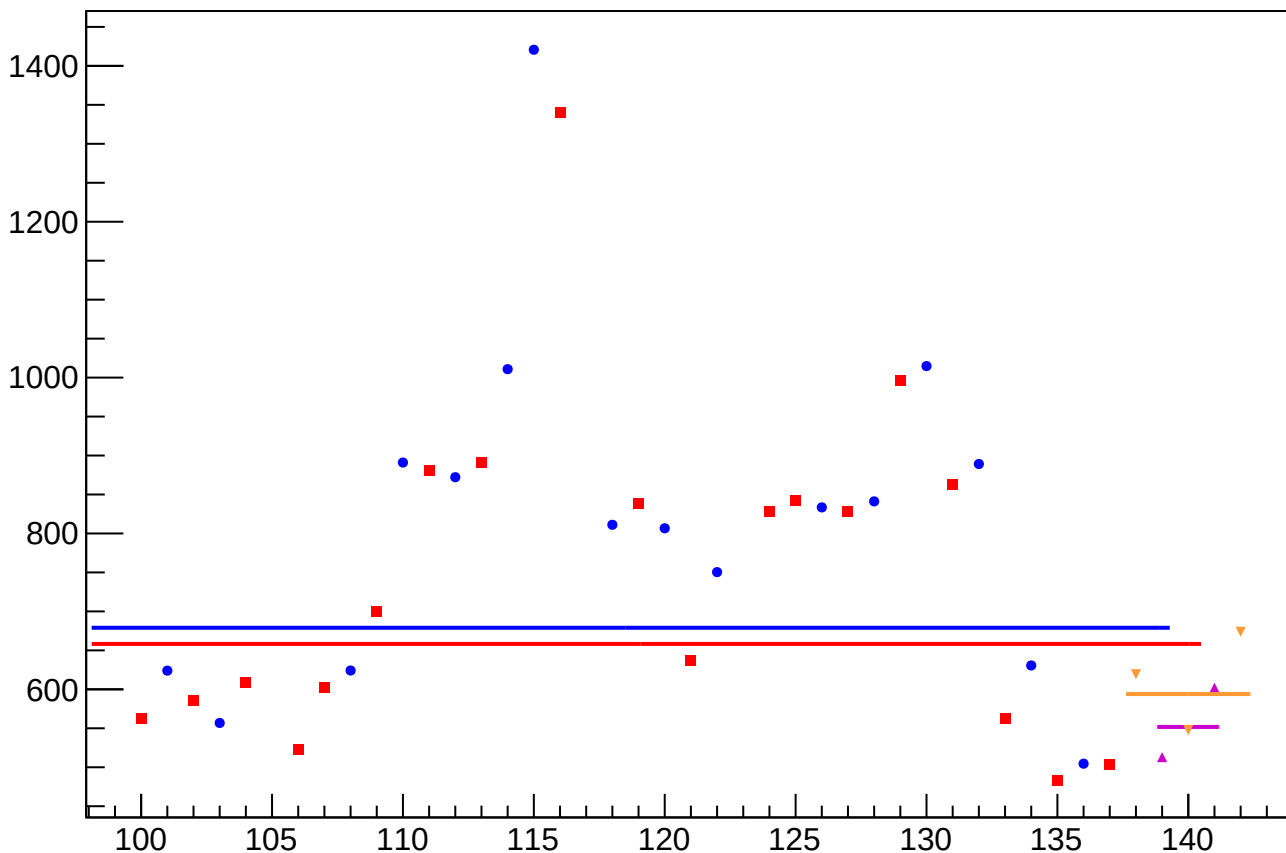
Right: -379.498 ± 179.935 χ^2/NDF : 26.1/34

In: -316.138 ± 221.194 χ^2/NDF : 9.5/17

Out: -311.916 ± 213.944 χ^2/NDF : 21.8/21

All: -313.957 ± 153.780 χ^2/NDF : 31.3/39

asym_sam_15_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 679.003+/-0.184 χ^2/NDF : 767985.6/15

Left Out: 593.957+/-0.294 χ^2/NDF : 26906.8/2

Right Out: 658.262+/-0.176 χ^2/NDF : 805898.2/18

Left In: 551.739+/-0.299 χ^2/NDF : 21856.7/1

Left: 573.178+/-0.209 χ^2/NDF : 58920.2/4

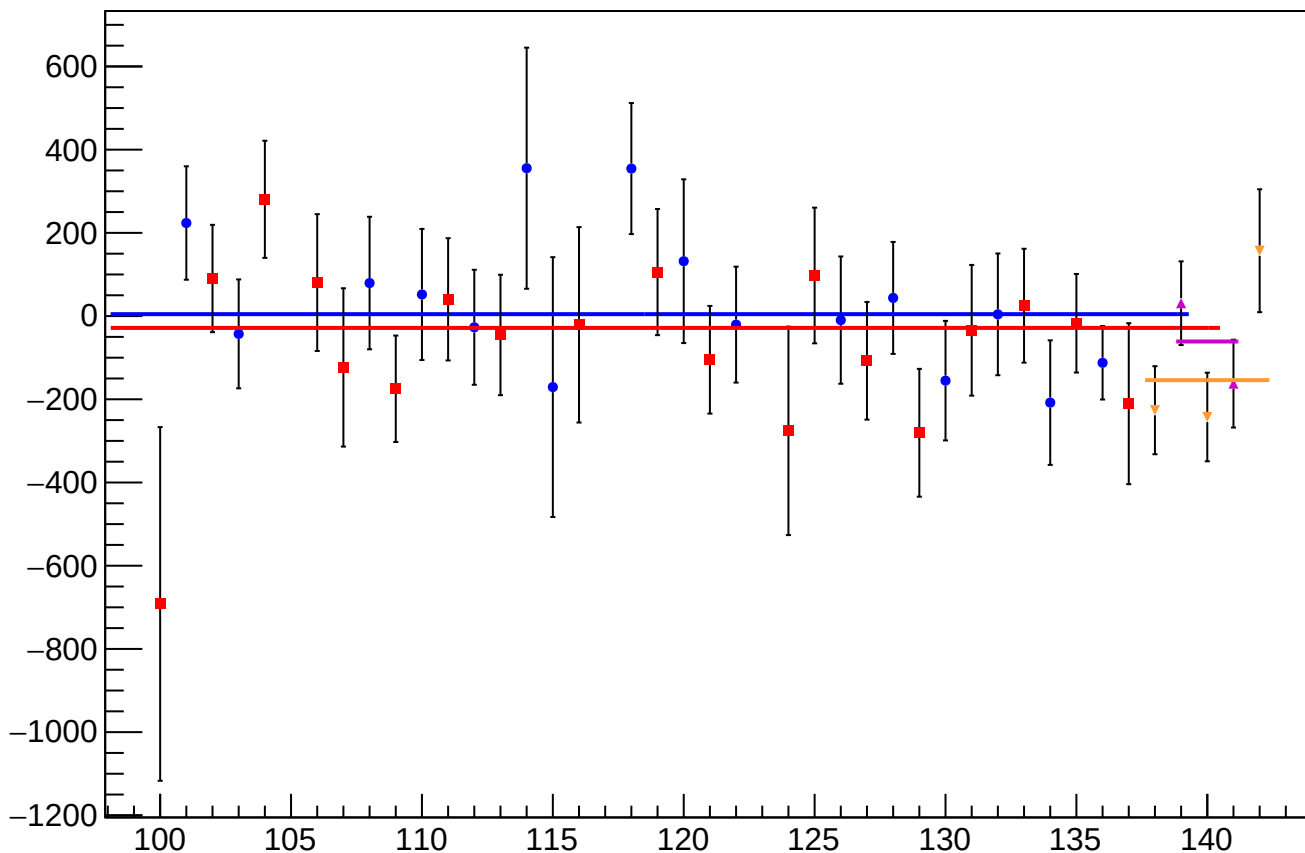
Right: 668.219+/-0.127 χ^2/NDF : 1580516.6/34

In: 644.067+/-0.156 χ^2/NDF : 921693.3/17

Out: 641.223+/-0.151 χ^2/NDF : 867994.4/21

All: 642.598+/-0.109 χ^2/NDF : 1789858.6/39

dit_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 4.619 ± 36.509 $\chi^2/\text{NDF}: 15.3/15$

Left Out: -154.021 ± 66.920 $\chi^2/\text{NDF}: 5.6/2$

Right Out: -28.407 ± 35.465 $\chi^2/\text{NDF}: 17.1/18$

Left In: -61.067 ± 72.818 $\chi^2/\text{NDF}: 1.8/1$

Left: -111.460 ± 49.273 $\chi^2/\text{NDF}: 8.2/4$

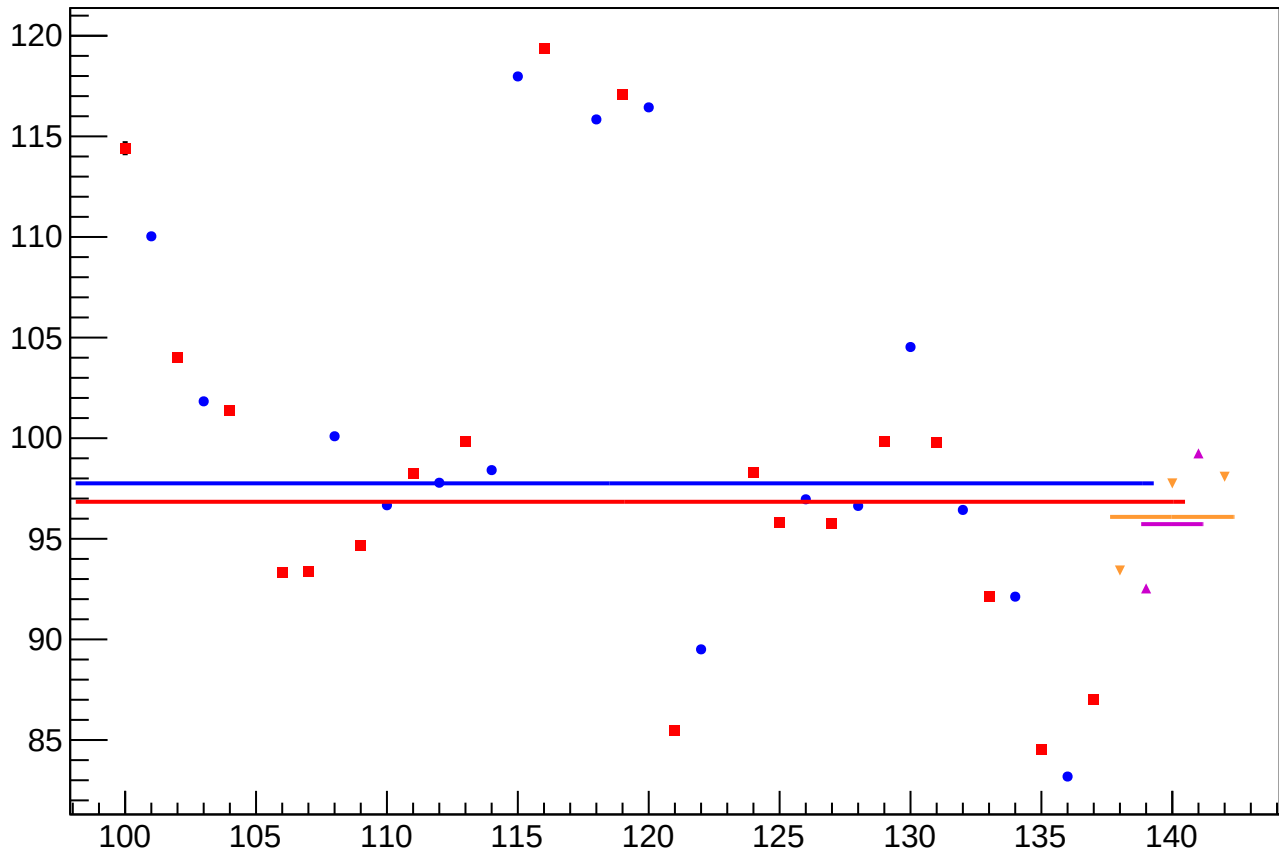
Right: -12.373 ± 25.439 $\chi^2/\text{NDF}: 32.9/34$

In: -8.576 ± 32.637 $\chi^2/\text{NDF}: 17.8/17$

Out: -55.951 ± 31.336 $\chi^2/\text{NDF}: 25.4/21$

All: -33.226 ± 22.604 $\chi^2/\text{NDF}: 44.3/39$

dit_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 97.756 $\pm$ 0.026 χ^2 /NDF: 140654.4/15

Left Out: 96.089 $\pm$ 0.047 χ^2 /NDF: 2121.7/2

Right Out: 96.840 $\pm$ 0.025 χ^2 /NDF: 115170.9/18

Left In: 95.729 $\pm$ 0.051 χ^2 /NDF: 4236.5/1

Left: 95.924 $\pm$ 0.035 χ^2 /NDF: 6384.6/4

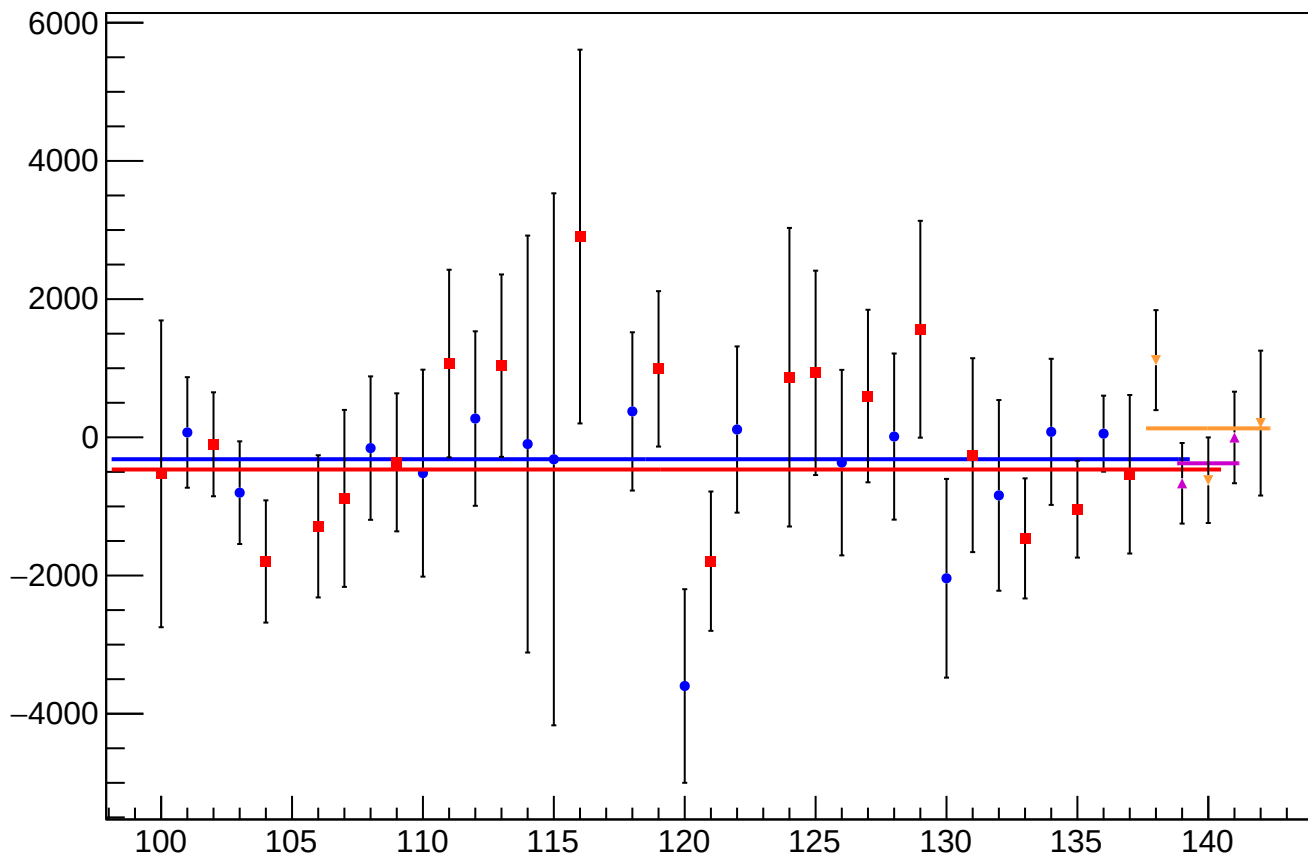
Right: 97.285 $\pm$ 0.018 χ^2 /NDF: 256473.4/34

In: 97.349 $\pm$ 0.023 χ^2 /NDF: 146129.0/17

Out: 96.675 $\pm$ 0.022 χ^2 /NDF: 117489.1/21

All: 96.998 $\pm$ 0.016 χ^2 /NDF: 264061.6/39

asym_sam_15_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -316.572 $\pm$ 267.515 χ^2 /NDF: 9.2/15

Left Out: 129.639 $\pm$ 429.258 χ^2 /NDF:3.3/2

Right Out: -465.576 $\pm$ 256.646 χ^2 /NDF: 16.5/18

Left In: -375.742 $\pm$ 437.774 χ^2 /NDF:0.6/1

Left: -118.089 $\pm$ 306.498 χ^2 /NDF: 4.6/4

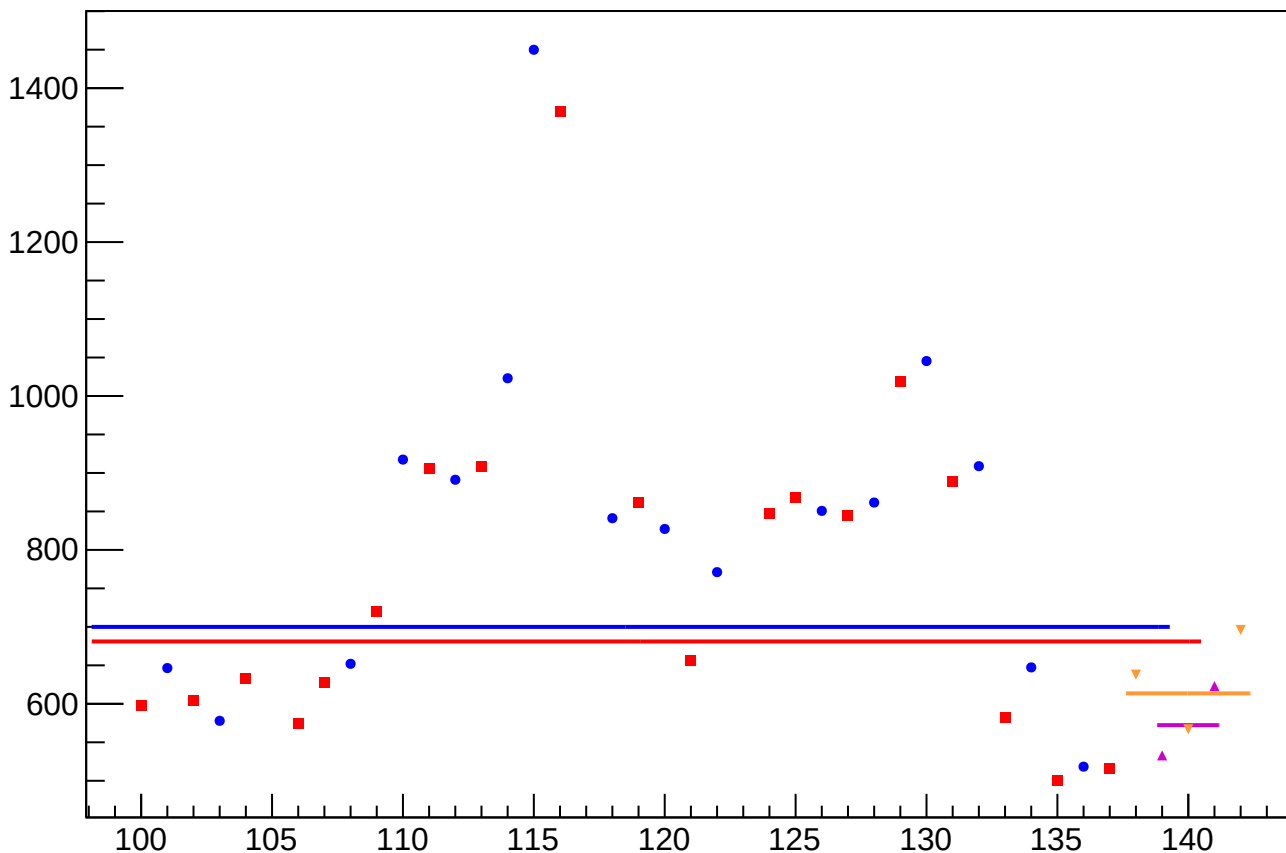
Right: -394.162 $\pm$ 185.199 χ^2 /NDF: 25.8/34

In: -332.660 $\pm$ 228.269 χ^2 /NDF:9.7/17

Out: -308.837 $\pm$ 220.278 χ^2 /NDF:21.2/21

All: -320.324 $\pm$ 158.510 χ^2 /NDF: 31.0/39

asym_sam_15_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 699.973 ± 0.189 $\chi^2/\text{NDF}: 753665.4/15$

Left Out: 613.548 ± 0.304 $\chi^2/\text{NDF}: 25963.4/2$

Right Out: 681.016 ± 0.181 $\chi^2/\text{NDF}: 769397.2/18$

Left In: 572.296 ± 0.310 $\chi^2/\text{NDF}: 20780.0/1$

Left: 593.327 ± 0.217 $\chi^2/\text{NDF}: 55797.6/4$

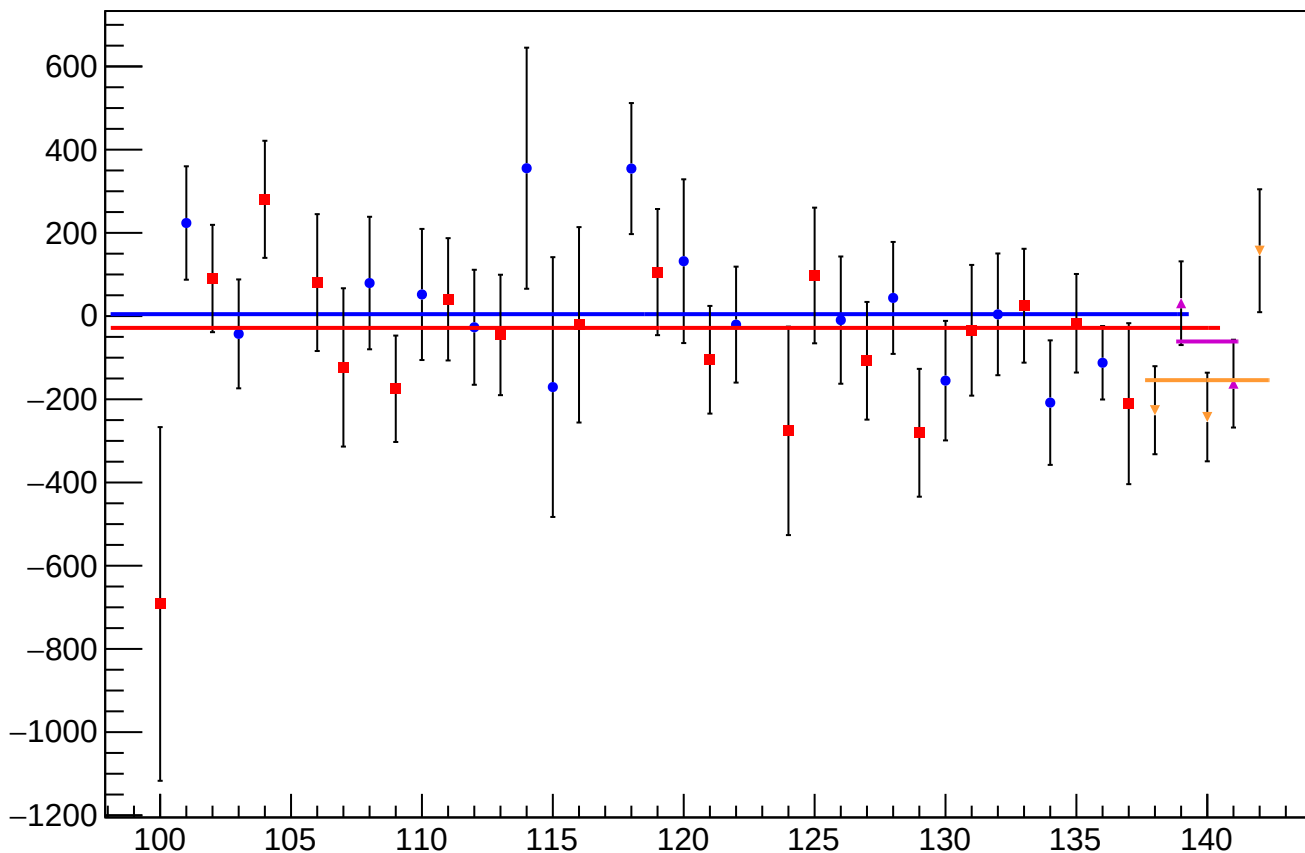
Right: 690.102 ± 0.131 $\chi^2/\text{NDF}: 1528292.0/34$

In: 665.259 ± 0.161 $\chi^2/\text{NDF}: 898311.2/17$

Out: 663.250 ± 0.156 $\chi^2/\text{NDF}: 831757.2/21$

All: 664.219 ± 0.112 $\chi^2/\text{NDF}: 1730148.6/39$

eigen_dit_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 4.620 ± 36.509 $\chi^2/\text{NDF}: 15.3/15$

Left Out: -154.021 ± 66.921 $\chi^2/\text{NDF}: 5.6/2$

Right Out: -28.407 ± 35.465 $\chi^2/\text{NDF}: 17.1/18$

Left In: -61.067 ± 72.818 $\chi^2/\text{NDF}: 1.8/1$

Left: -111.460 ± 49.273 $\chi^2/\text{NDF}: 8.2/4$

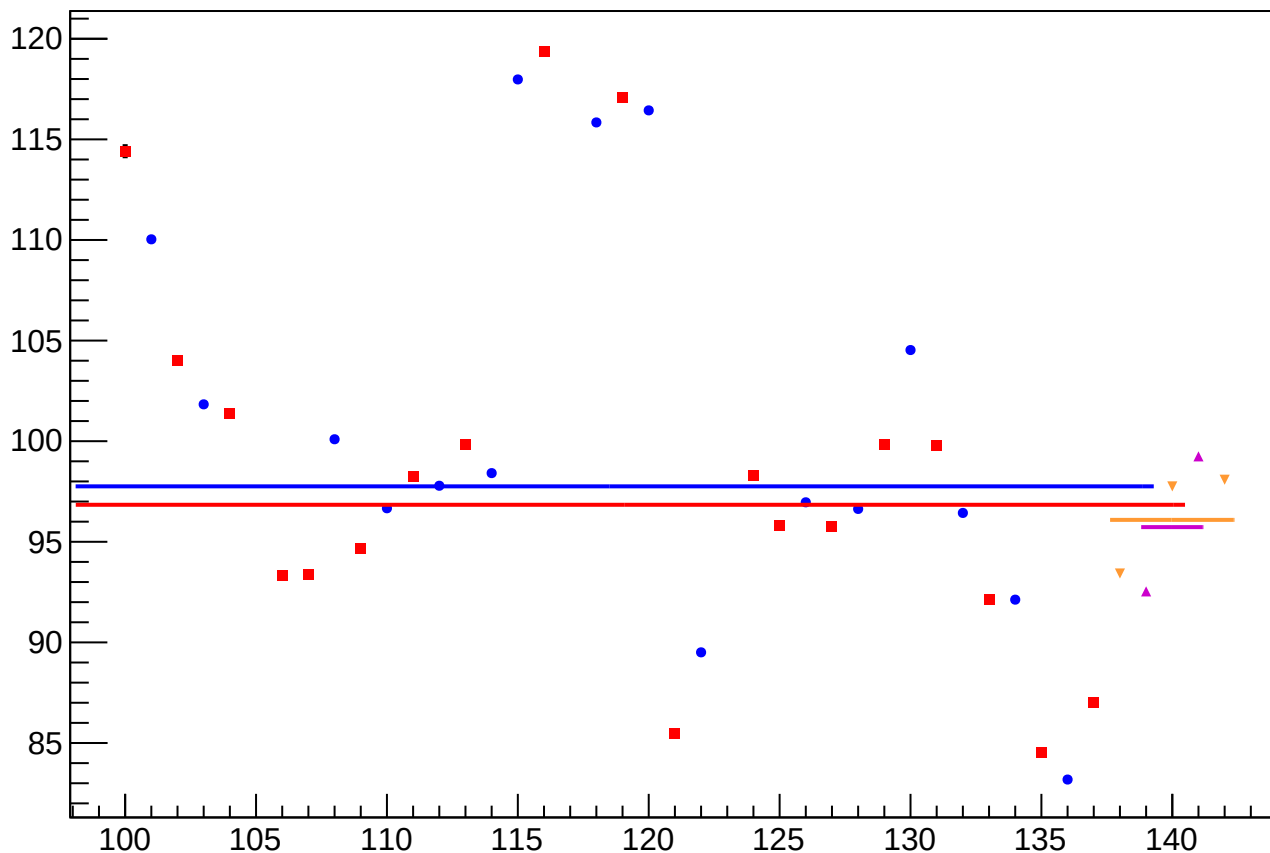
Right: -12.373 ± 25.438 $\chi^2/\text{NDF}: 32.9/34$

In: -8.575 ± 32.637 $\chi^2/\text{NDF}: 17.8/17$

Out: -55.950 ± 31.336 $\chi^2/\text{NDF}: 25.4/21$

All: -33.225 ± 22.604 $\chi^2/\text{NDF}: 44.3/39$

eigen_dit_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 97.756 $\pm$ 0.026 χ^2 /NDF: 140654.8/15

Left Out: 96.089 $\pm$ 0.047 χ^2 /NDF: 2121.4/2

Right Out: 96.839 $\pm$ 0.025 χ^2 /NDF: 115173.1/18

Left In: 95.730 $\pm$ 0.051 χ^2 /NDF: 4236.5/1

Left: 95.925 $\pm$ 0.035 χ^2 /NDF: 6384.4/4

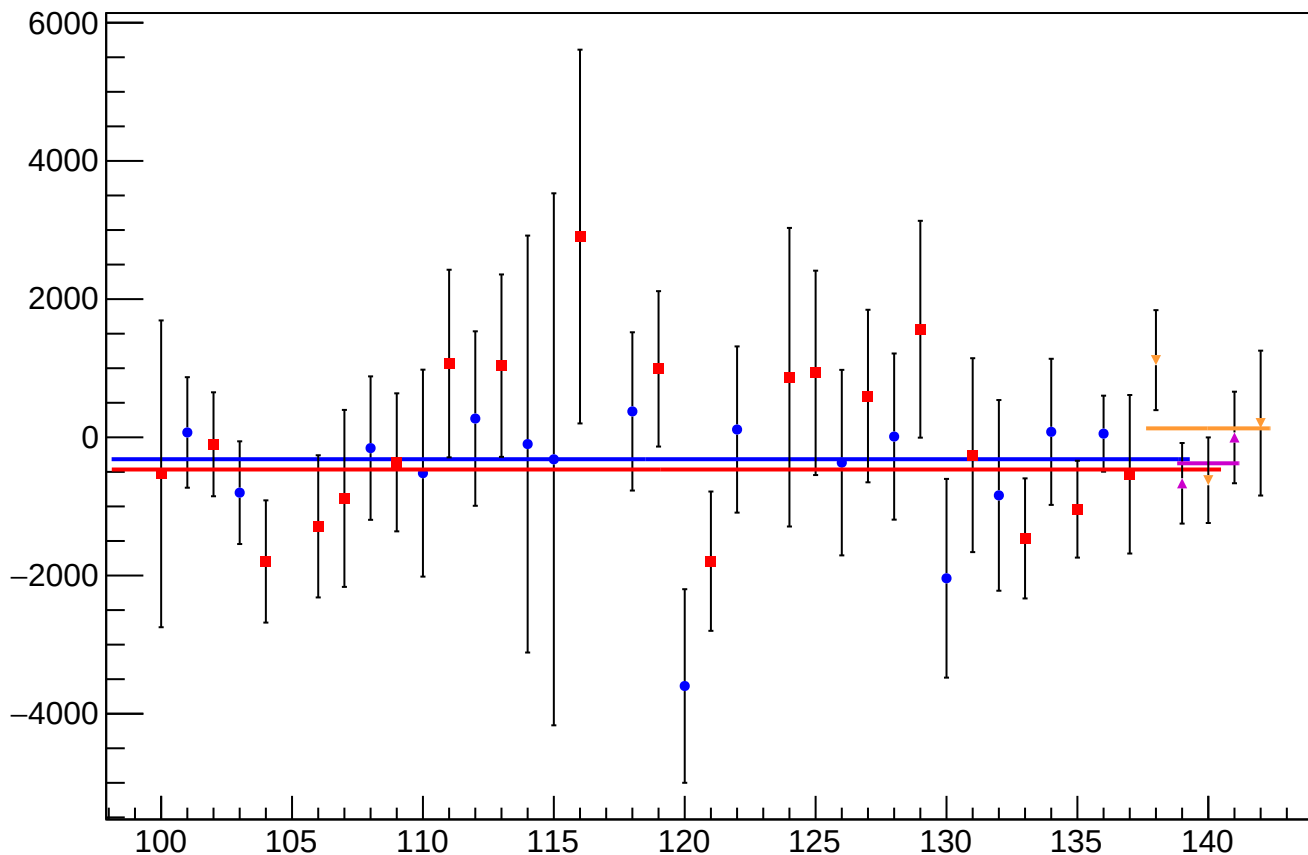
Right: 97.284 $\pm$ 0.018 χ^2 /NDF: 256476.1/34

In: 97.349 $\pm$ 0.023 χ^2 /NDF: 146128.7/17

Out: 96.675 $\pm$ 0.022 χ^2 /NDF: 117490.7/21

All: 96.998 $\pm$ 0.016 χ^2 /NDF: 264063.0/39

asym_sam_15_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -316.570+/-267.515 χ^2/NDF : 9.2/15

Left Out: 129.639+/-429.260 χ^2/NDF : 3.3/2

Right Out: -465.576+/-256.645 χ^2/NDF : 16.5/18

Left In: -375.744+/-437.775 χ^2/NDF : 0.6/1

Left: -118.090+/-306.499 χ^2/NDF : 4.6/4

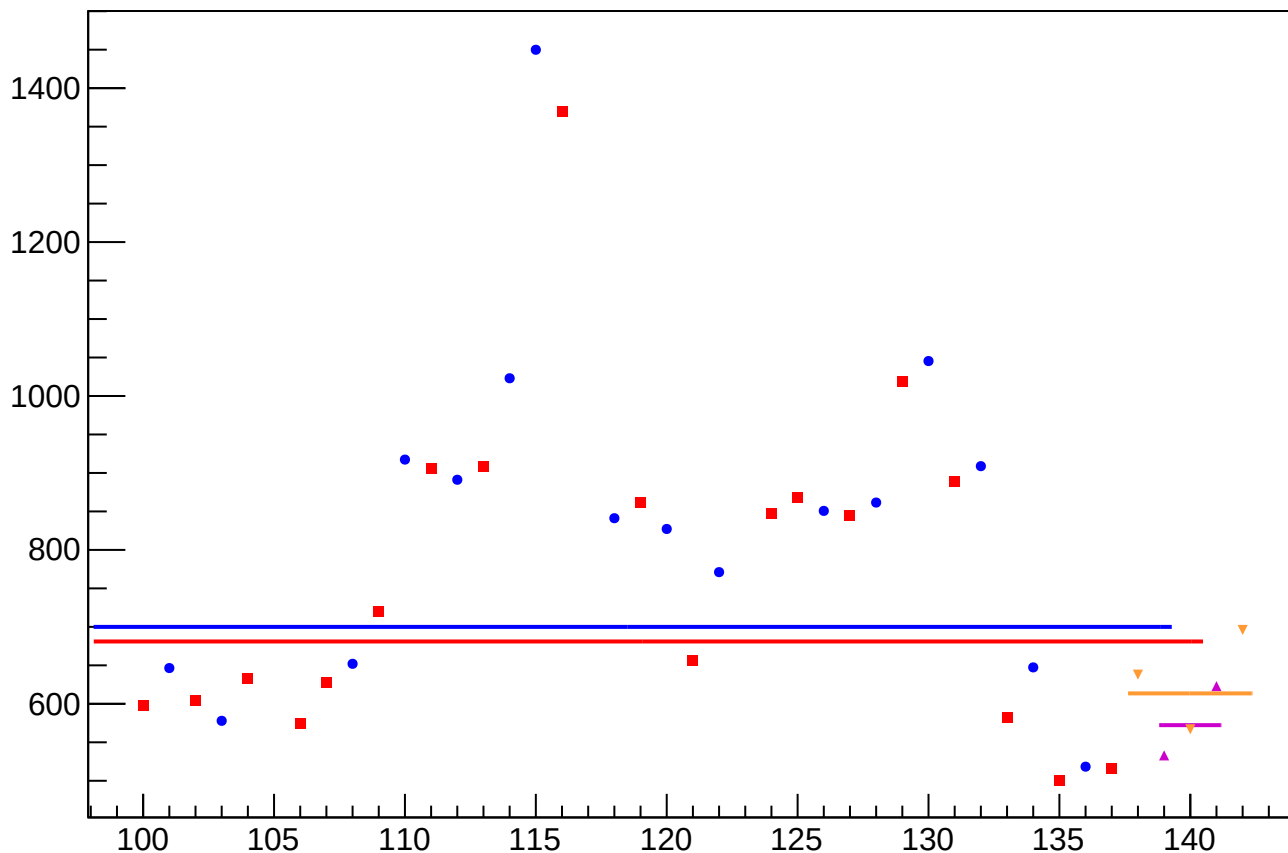
Right: -394.162+/-185.199 χ^2/NDF : 25.8/34

In: -332.659+/-228.269 χ^2/NDF : 9.7/17

Out: -308.838+/-220.277 χ^2/NDF : 21.2/21

All: -320.324+/-158.509 χ^2/NDF : 31.0/39

asym_sam_15_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 699.971+/-0.189 χ^2/NDF : 753668.1/15

Left Out: 613.550+/-0.304 χ^2/NDF : 25963.1/2

Right Out: 681.015+/-0.181 χ^2/NDF : 769400.5/18

Left In: 572.297+/-0.310 χ^2/NDF : 20780.4/1

Left: 593.329+/-0.217 χ^2/NDF : 55797.8/4

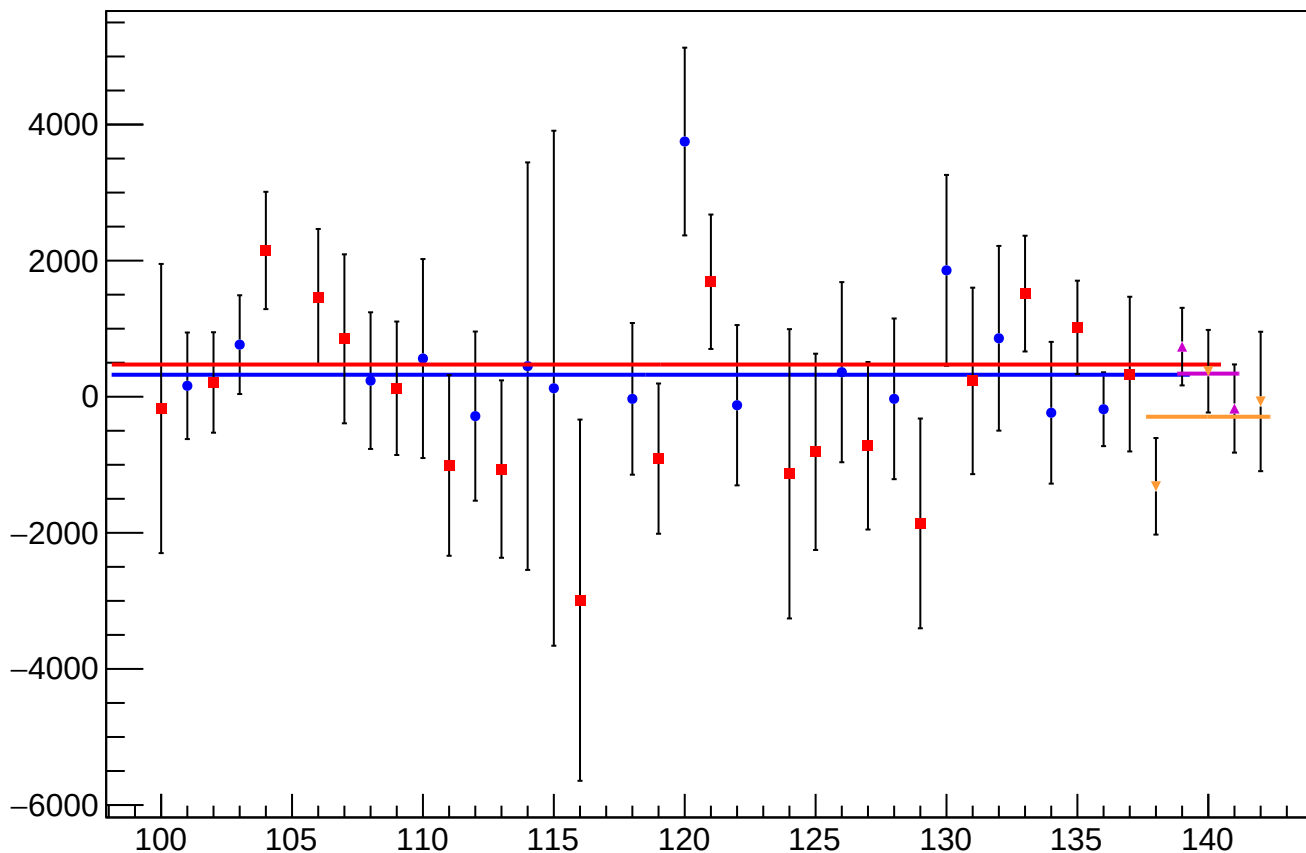
Right: 690.100+/-0.131 χ^2/NDF : 1528298.1/34

In: 665.258+/-0.161 χ^2/NDF : 898309.0/17

Out: 663.249+/-0.156 χ^2/NDF : 831756.5/21

All: 664.218+/-0.112 χ^2/NDF : 1730145.8/39

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 323.198 $\pm$ 262.332 χ^2 /NDF: 9.7/15

Left Out: -294.027 $\pm$ 420.562 χ^2 /NDF:3.3/2

Right Out: 473.233 $\pm$ 251.330 χ^2 /NDF: 19.4/18

Left In: 339.835 $\pm$ 427.983 χ^2 /NDF:1.1/1

Left: 17.361 $\pm$ 299.972 χ^2 /NDF: 5.6/4

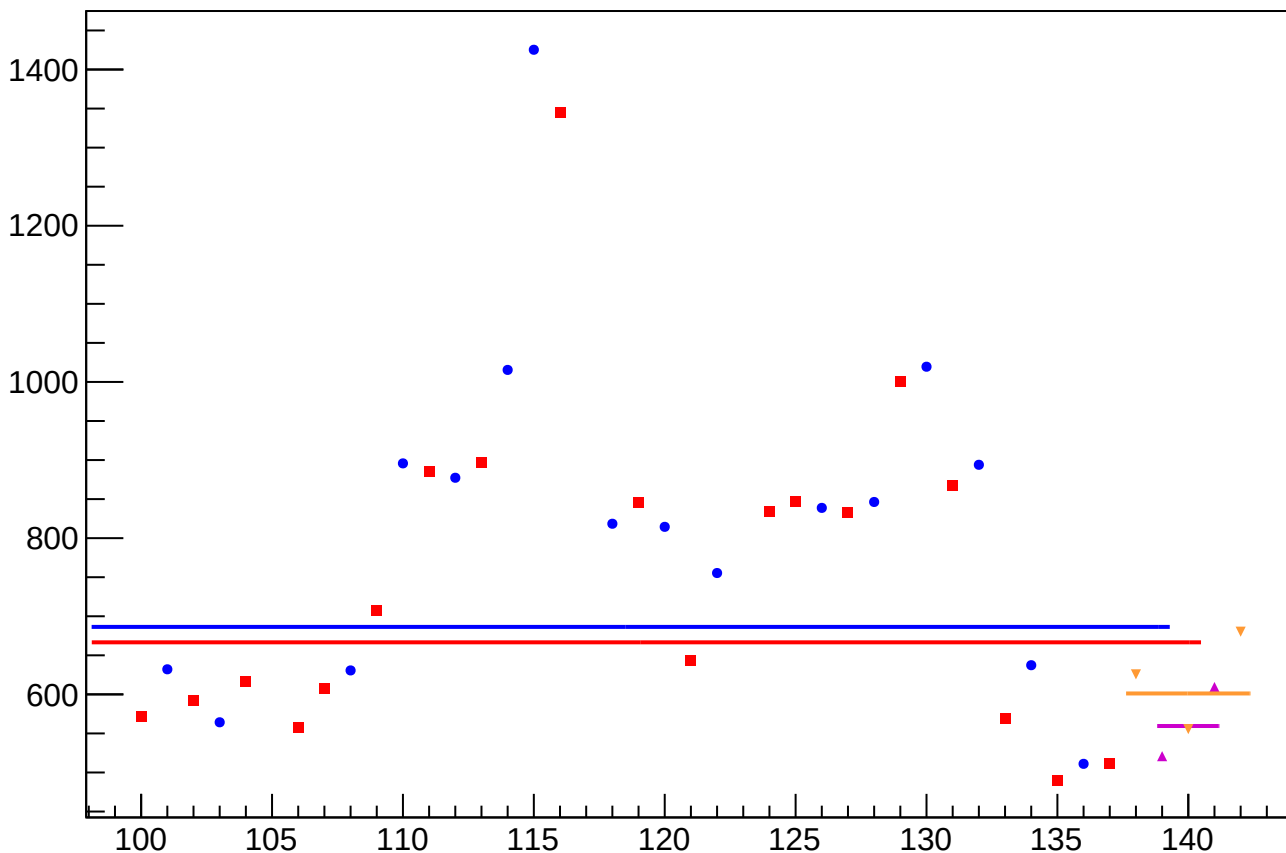
Right: 401.428 $\pm$ 181.482 χ^2 /NDF: 29.3/34

In: 327.742 $\pm$ 223.660 χ^2 /NDF:10.8/17

Out: 271.327 $\pm$ 215.741 χ^2 /NDF:25.2/21

All: 298.518 $\pm$ 155.276 χ^2 /NDF: 36.1/39

asym_sam_15_dd_rms vs Slug, Sign Corrected



Left: 580.698 +/- 0.212 χ^2/NDF : 56312.0/4

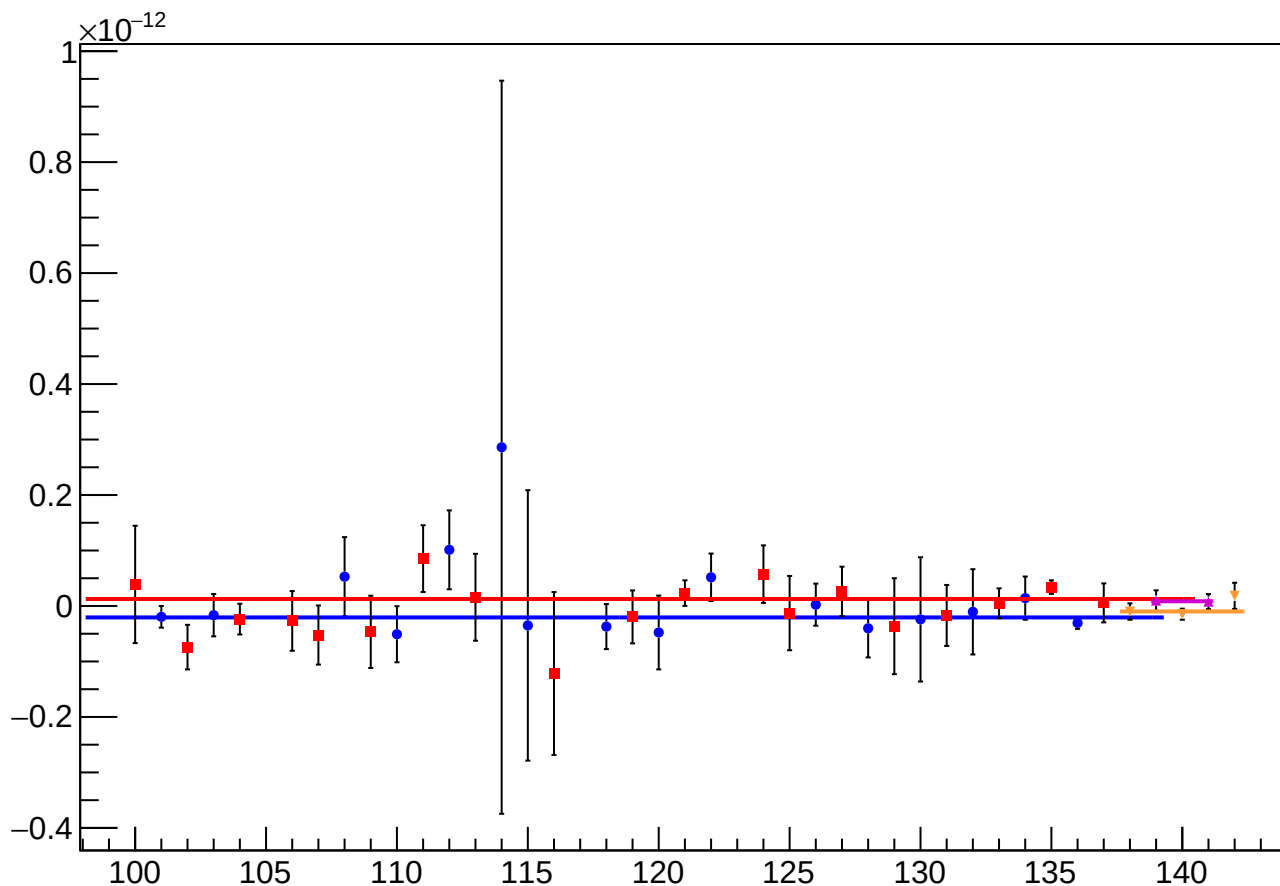
Right: 676.091 +/- 0.128 χ^2/NDF : 1532404.9/34

In: 651.740 +/- 0.158 χ^2/NDF : 898317.1/17

Out: 649.406 +/- 0.153 χ^2/NDF : 838351.2/21

All: 650.531 +/- 0.110 χ^2/NDF : 1736781.1/39

asym_sam_15_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 10.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 17.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 3.6/4

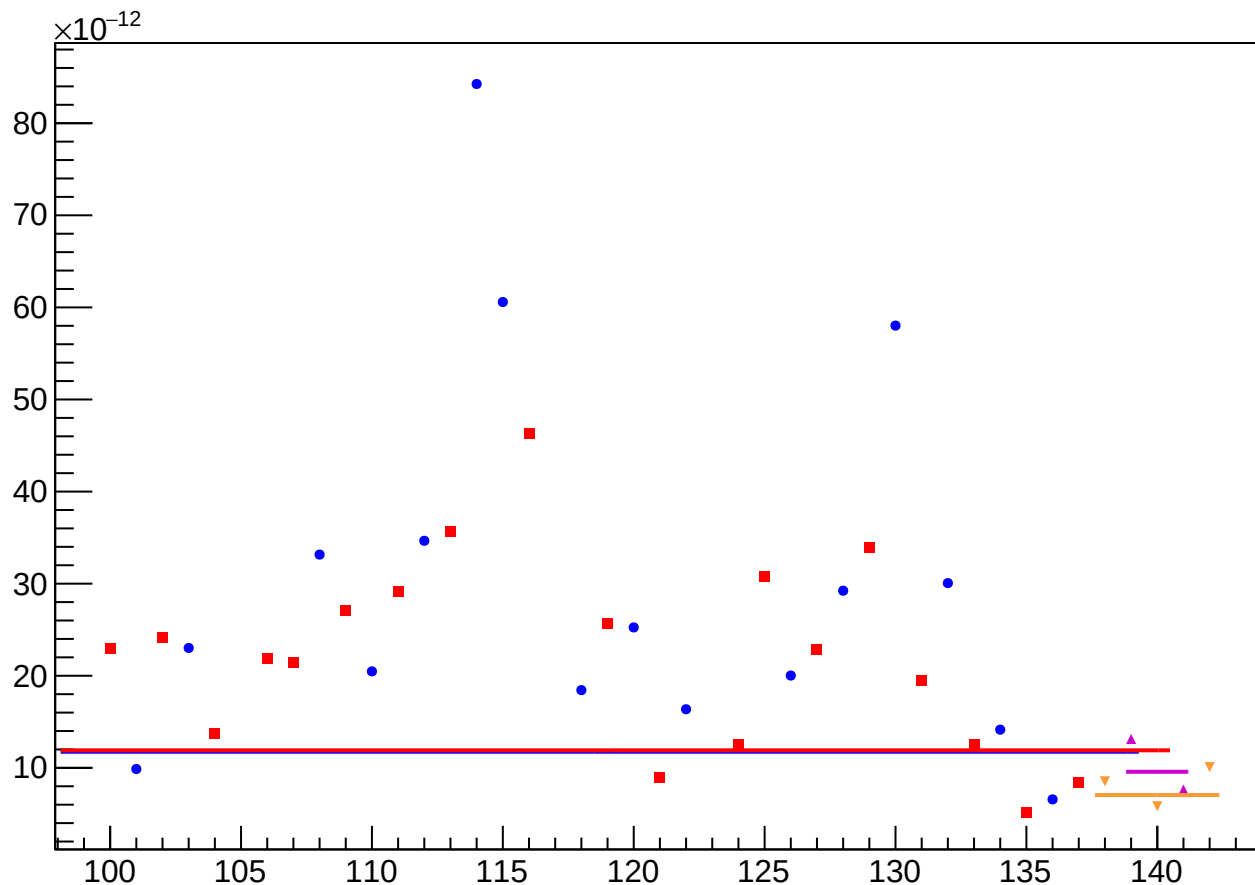
Right: -0.000+/-0.000 χ^2/NDF : 36.0/34

In: -0.000+/-0.000 χ^2/NDF : 14.7/17

Out: 0.000+/-0.000 χ^2/NDF : 22.8/21

All: -0.000+/-0.000 χ^2/NDF : 39.6/39

asym_sam_15_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2161176.0/15

Left Out: 0.000+/-0.000 χ^2/NDF :83435.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2202451.9/18

Left In: 0.000+/-0.000 χ^2/NDF :115946.9/1

Left: 0.000+/-0.000 χ^2/NDF : 270536.5/4

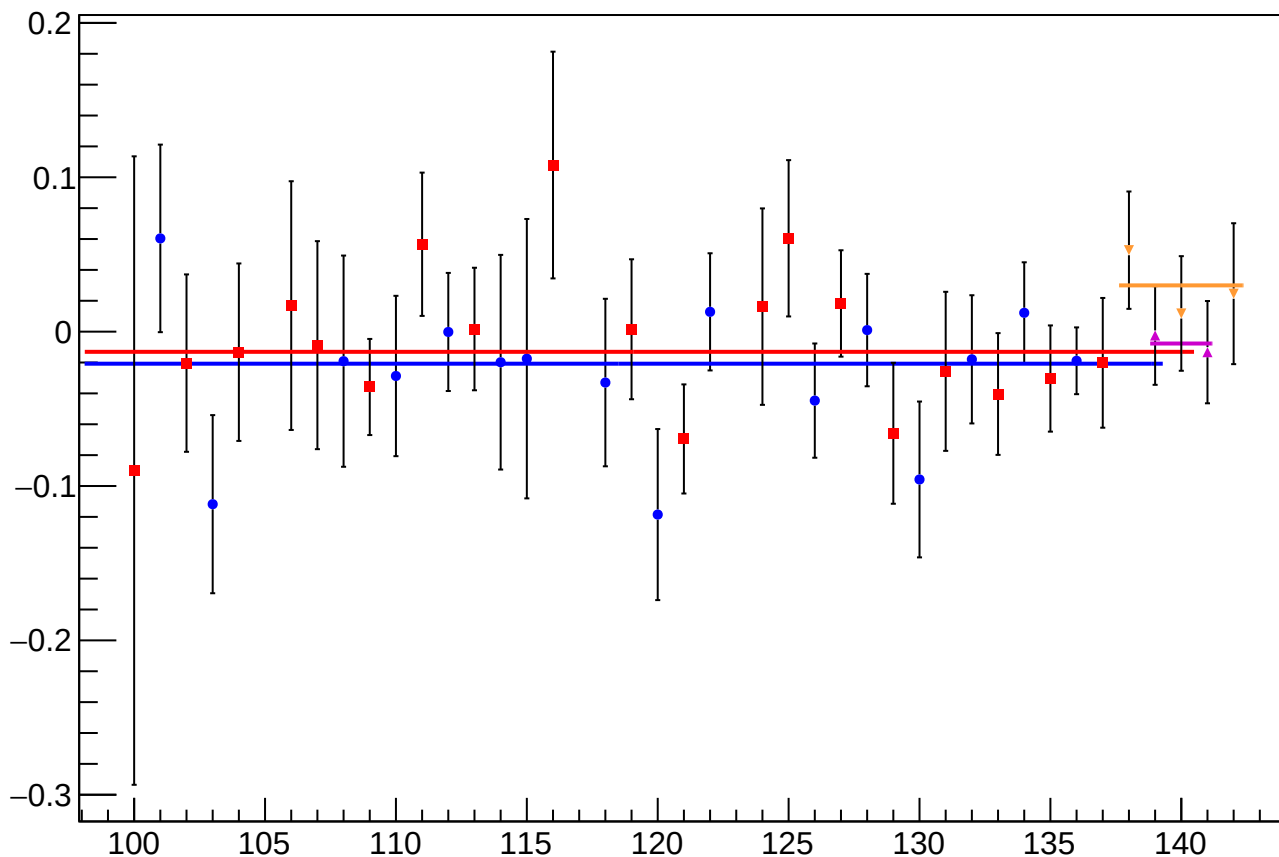
Right: 0.000+/-0.000 χ^2/NDF : 4364012.6/34

In: 0.000+/-0.000 χ^2/NDF :2329700.1/17

Out: 0.000+/-0.000 χ^2/NDF :2671508.8/21

All: 0.000+/-0.000 χ^2/NDF : 5069038.1/39

asym_sam_15_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.011 χ^2/NDF : 12.5/15

Left Out: 0.030 ± 0.023 χ^2/NDF : 0.6/2

Right Out: -0.013 ± 0.011 χ^2/NDF : 13.9/18

Left In: -0.008 ± 0.023 χ^2/NDF : 0.1/1

Left: 0.011 ± 0.016 χ^2/NDF : 2.0/4

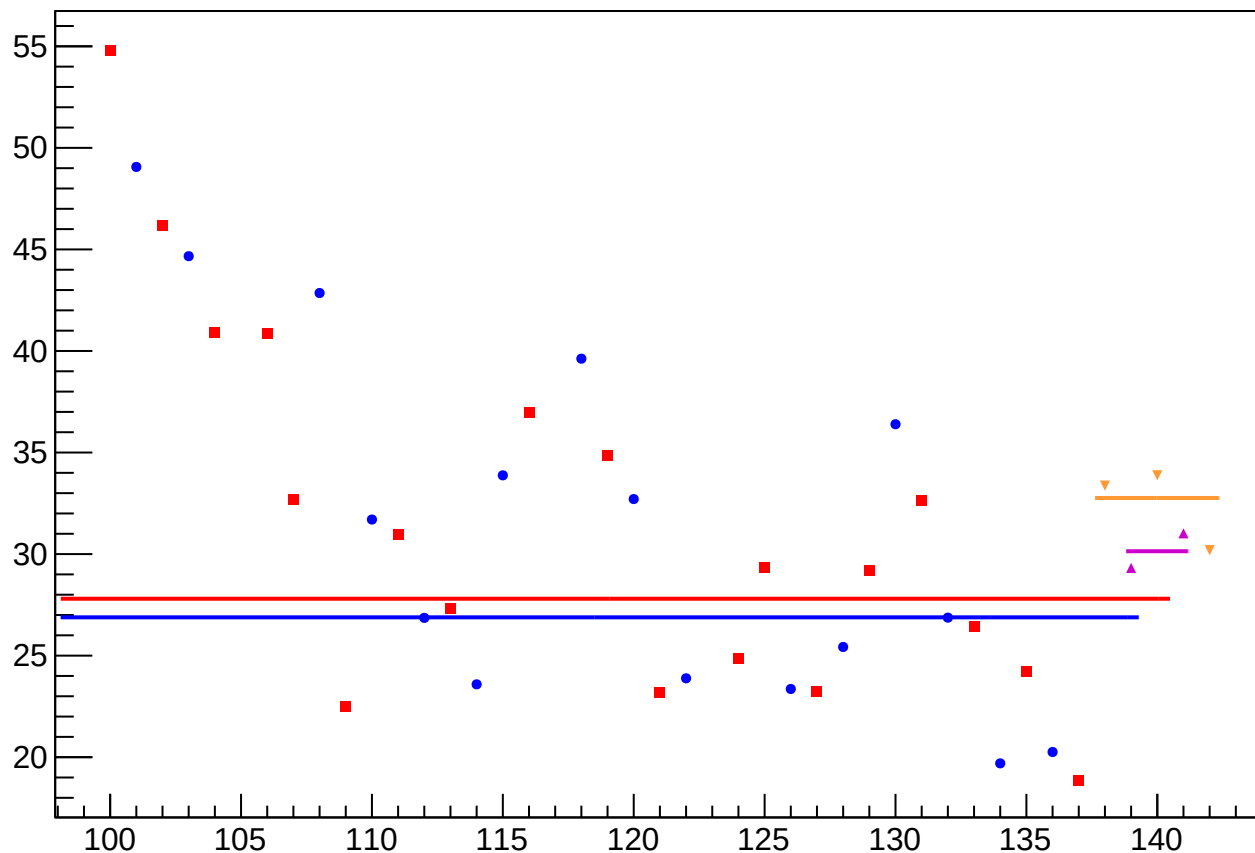
Right: -0.017 ± 0.007 χ^2/NDF : 26.7/34

In: -0.019 ± 0.010 χ^2/NDF : 12.9/17

Out: -0.006 ± 0.010 χ^2/NDF : 17.4/21

All: -0.012 ± 0.007 χ^2/NDF : 31.2/39

asym_sam_15_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 26.886 $\pm$ 0.007 χ^2 /NDF: 1120557.7/15

Left Out: 32.762 $\pm$ 0.016 χ^2 /NDF: 8663.9/2

Right Out: 27.802 $\pm$ 0.007 χ^2 /NDF: 763106.1/18

Left In: 30.140 $\pm$ 0.016 χ^2 /NDF: 2739.6/1

Left: 31.454 $\pm$ 0.011 χ^2 /NDF: 24428.4/4

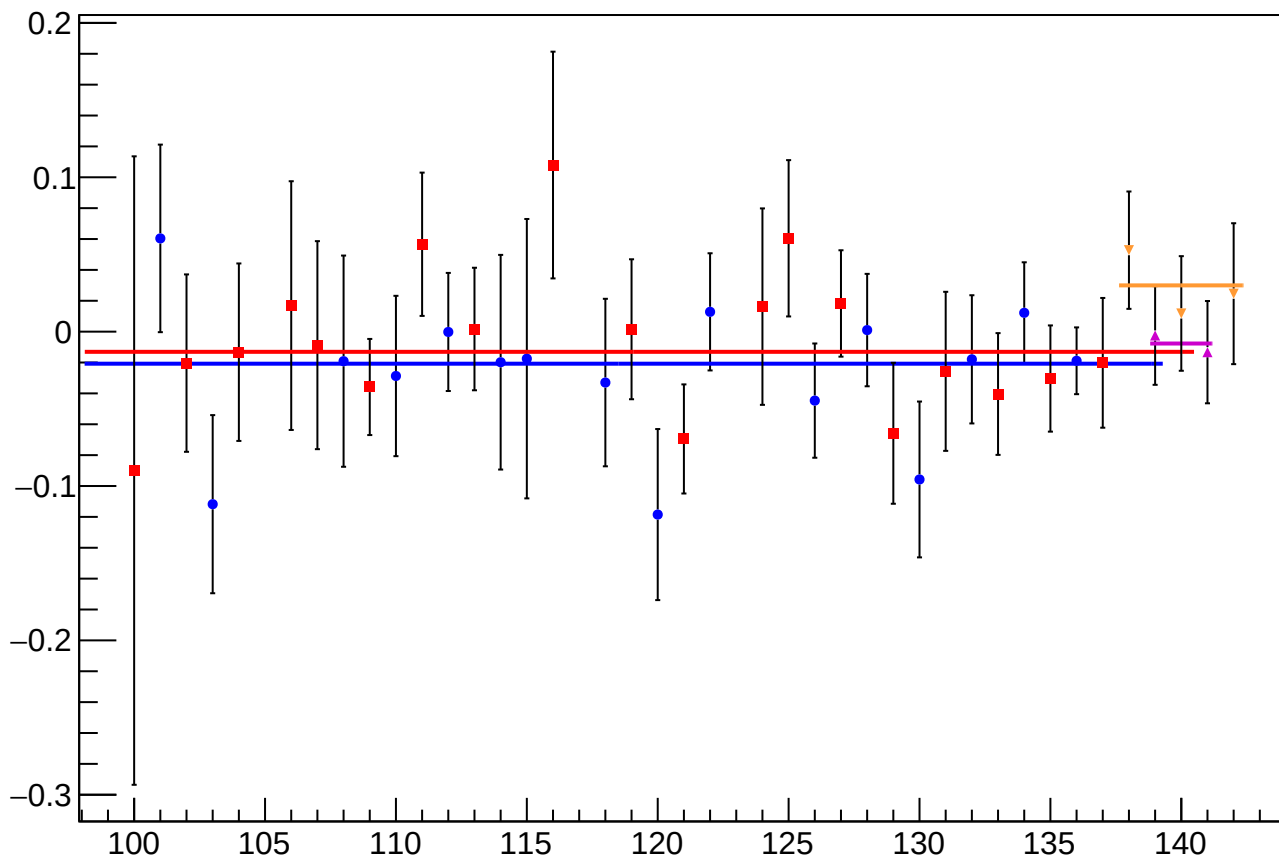
Right: 27.342 $\pm$ 0.005 χ^2 /NDF: 1891228.7/34

In: 27.448 $\pm$ 0.007 χ^2 /NDF: 1156405.0/17

Out: 28.666 $\pm$ 0.007 χ^2 /NDF: 848906.6/21

All: 28.055 $\pm$ 0.005 χ^2 /NDF: 2021506.0/39

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.011 χ^2/NDF : 12.5/15

Left Out: 0.030 ± 0.023 χ^2/NDF : 0.6/2

Right Out: -0.013 ± 0.011 χ^2/NDF : 13.9/18

Left In: -0.008 ± 0.023 χ^2/NDF : 0.1/1

Left: 0.011 ± 0.016 χ^2/NDF : 2.0/4

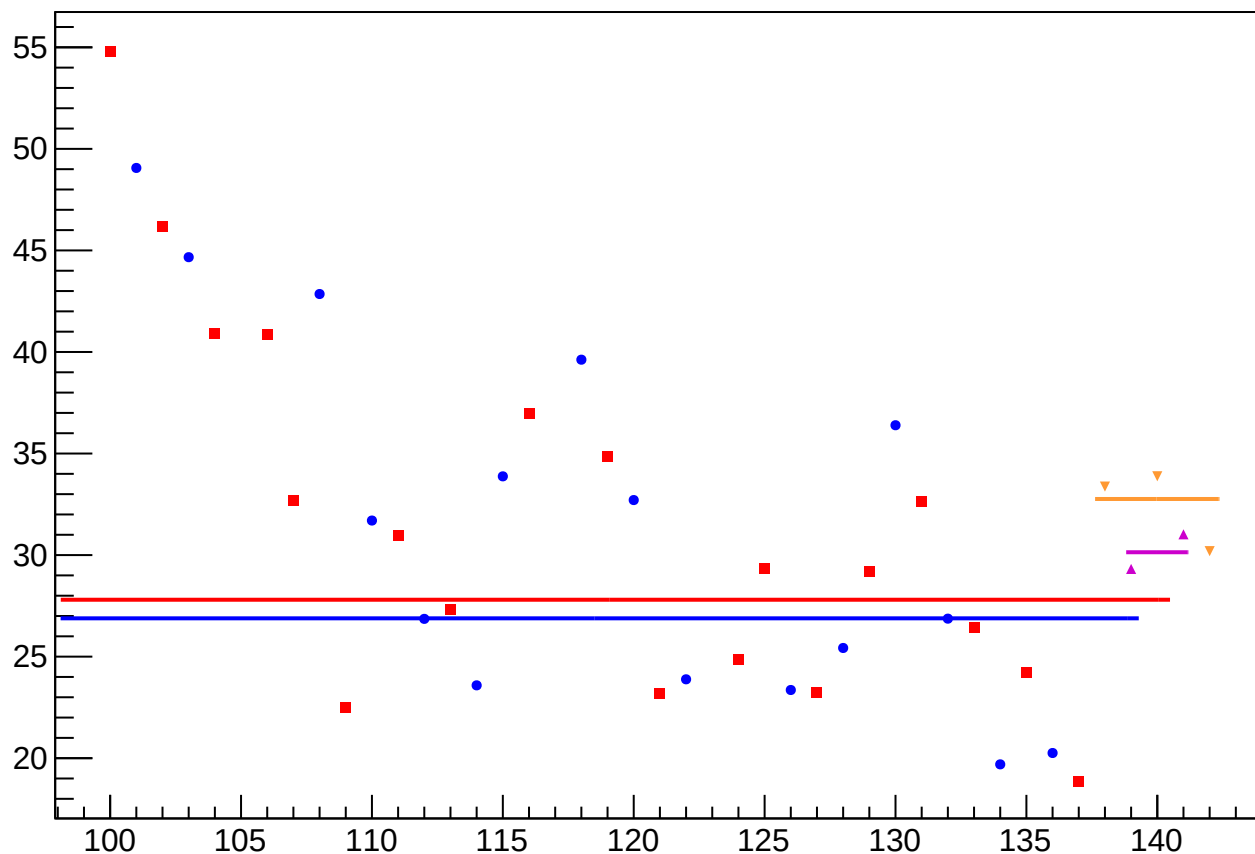
Right: -0.017 ± 0.007 χ^2/NDF : 26.7/34

In: -0.019 ± 0.010 χ^2/NDF : 12.9/17

Out: -0.006 ± 0.010 χ^2/NDF : 17.4/21

All: -0.012 ± 0.007 χ^2/NDF : 31.2/39

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 26.886 $\pm$ 0.007 χ^2/NDF : 1120557.7/15

Left Out: 32.762 $\pm$ 0.016 χ^2/NDF : 8663.9/2

Right Out: 27.802 $\pm$ 0.007 χ^2/NDF : 763106.1/18

Left In: 30.140 $\pm$ 0.016 χ^2/NDF : 2739.6/1

Left: 31.454 $\pm$ 0.011 χ^2/NDF : 24428.4/4

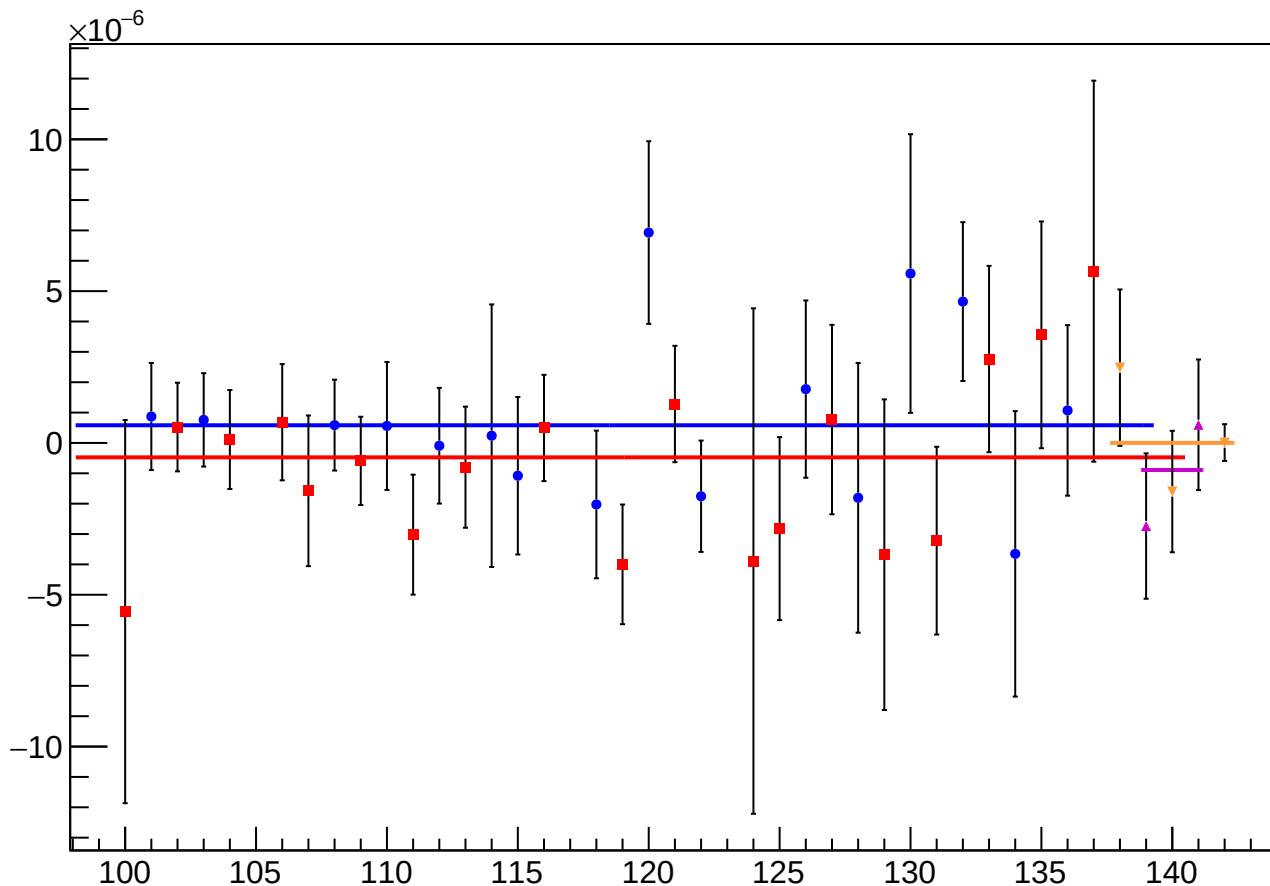
Right: 27.342 $\pm$ 0.005 χ^2/NDF : 1891228.7/34

In: 27.448 $\pm$ 0.007 χ^2/NDF : 1156405.0/17

Out: 28.666 $\pm$ 0.007 χ^2/NDF : 848906.6/21

All: 28.055 $\pm$ 0.005 χ^2/NDF : 2021506.0/39

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 12.7/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 1.6/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 13.2/18

Left In: -0.000 ± 0.000 χ^2/NDF : 1.1/1

Left: -0.000 ± 0.000 χ^2/NDF : 2.9/4

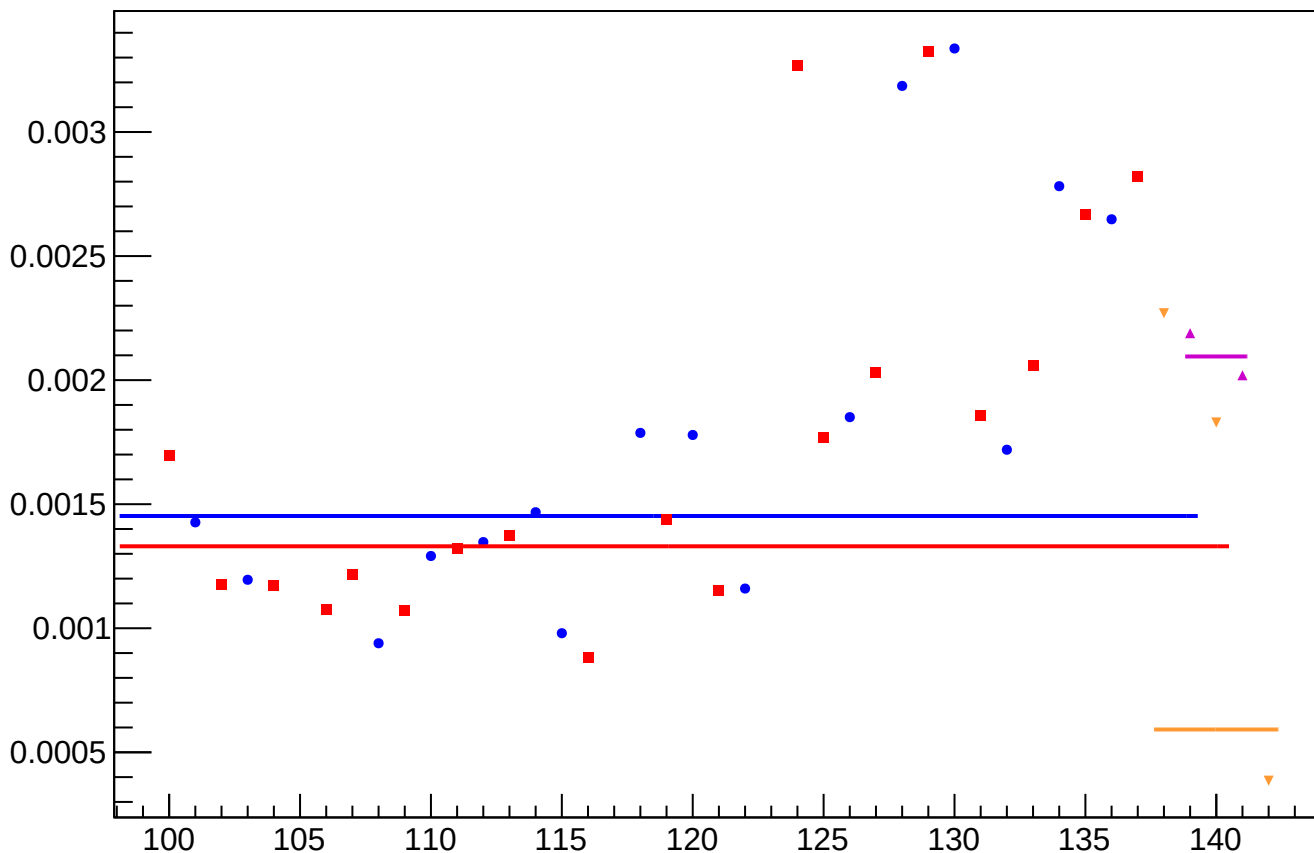
Right: -0.000 ± 0.000 χ^2/NDF : 27.8/34

In: 0.000 ± 0.000 χ^2/NDF : 14.5/17

Out: -0.000 ± 0.000 χ^2/NDF : 15.2/21

All: -0.000 ± 0.000 χ^2/NDF : 30.7/39

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 1710487.9/15

Left Out: 0.001+/-0.000

χ^2/NDF :1847089.8/2

Right Out: 0.001+/-0.000

χ^2/NDF : 1402821.5/18

Left In: 0.002+/-0.000

χ^2/NDF :5555.3/1

Left: 0.001+/-0.000

χ^2/NDF : 3422790.6/4

Right: 0.001+/-0.000

χ^2/NDF : 3162860.5/34

In: 0.002+/-0.000

χ^2/NDF :2001909.6/17

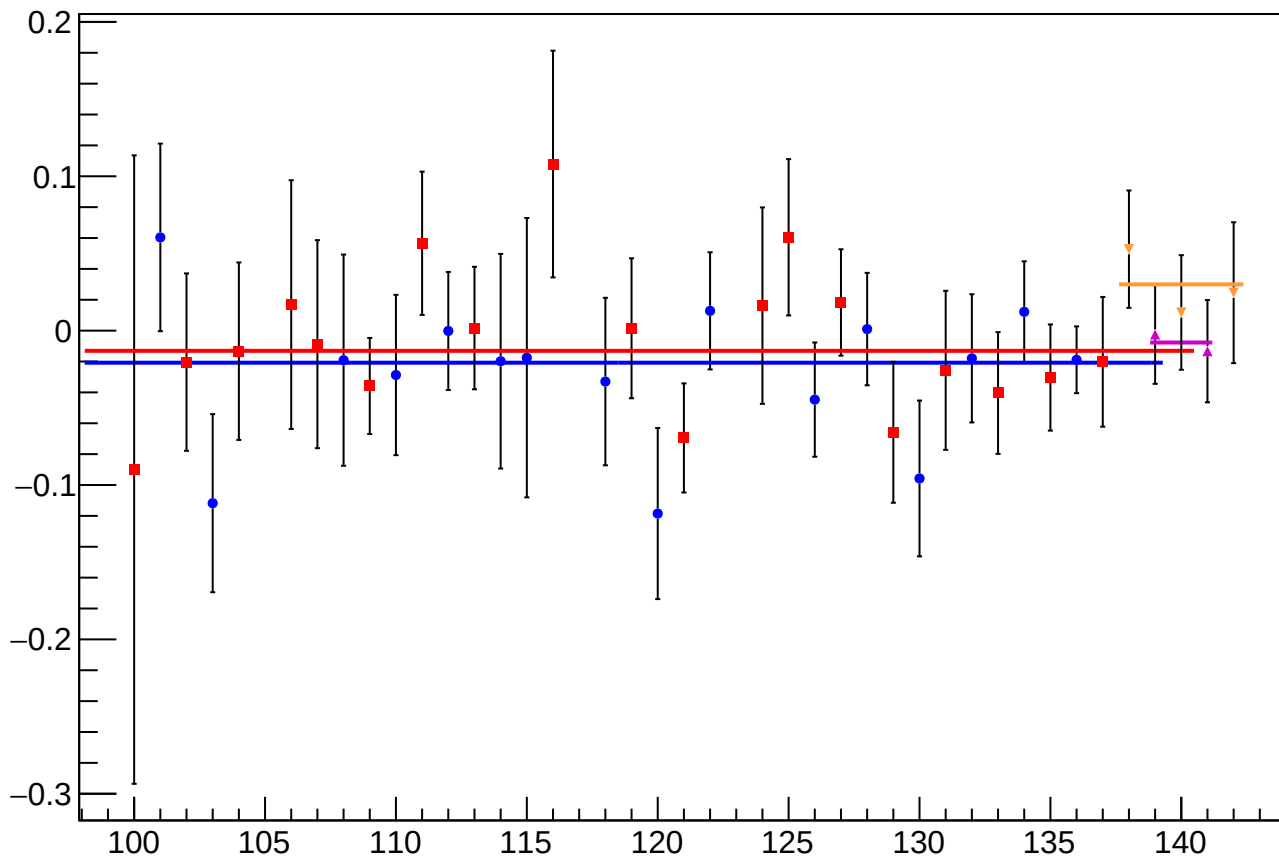
Out: 0.001+/-0.000

χ^2/NDF :5101475.6/21

All: 0.001+/-0.000

χ^2/NDF : 8395176.3/39

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.011 χ^2/NDF : 12.5/15

Left Out: 0.030 ± 0.023 χ^2/NDF : 0.6/2

Right Out: -0.013 ± 0.011 χ^2/NDF : 13.9/18

Left In: -0.008 ± 0.023 χ^2/NDF : 0.1/1

Left: 0.011 ± 0.016 χ^2/NDF : 2.0/4

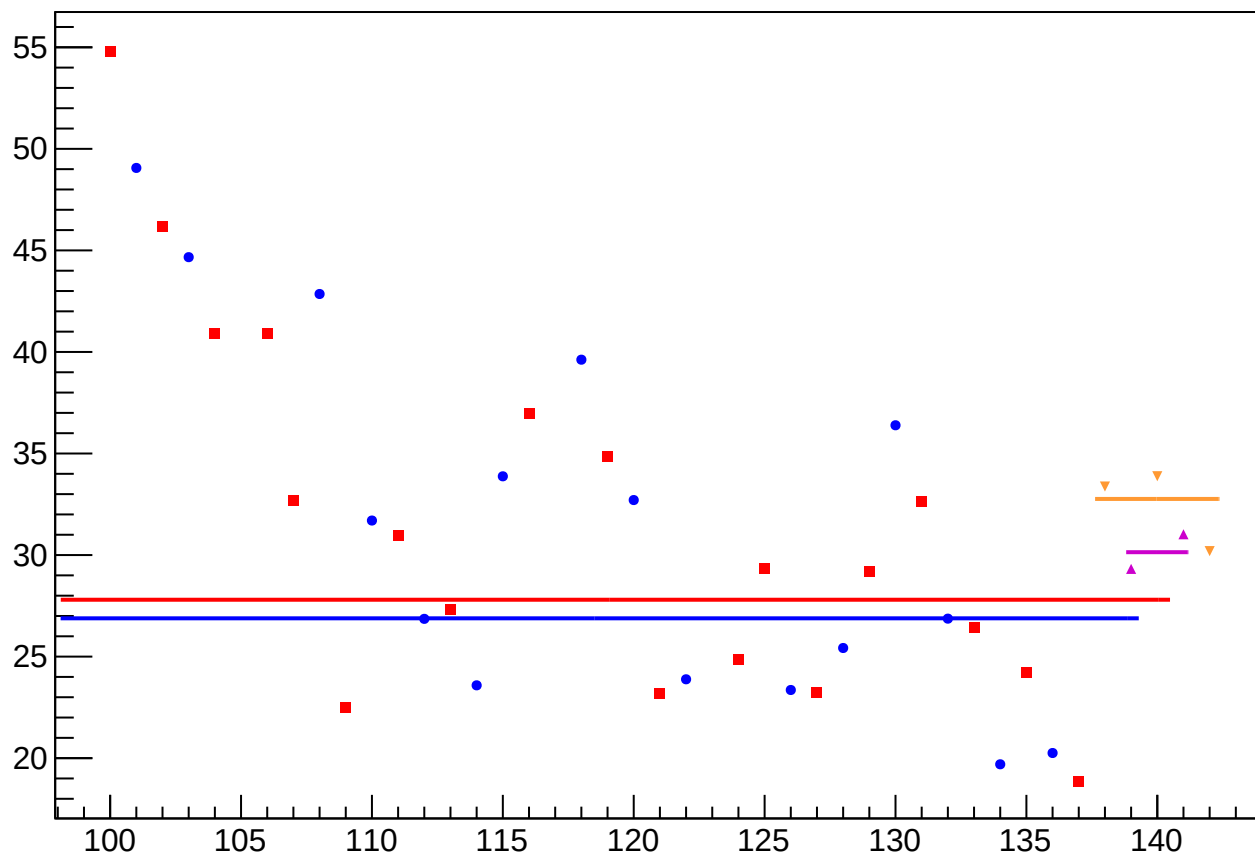
Right: -0.017 ± 0.007 χ^2/NDF : 26.7/34

In: -0.019 ± 0.010 χ^2/NDF : 12.9/17

Out: -0.006 ± 0.010 χ^2/NDF : 17.4/21

All: -0.012 ± 0.007 χ^2/NDF : 31.2/39

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 26.885 $\pm$ 0.007 χ^2/NDF : 1120567.7/15

Left Out: 32.763 $\pm$ 0.016 χ^2/NDF : 8668.0/2

Right Out: 27.800 $\pm$ 0.007 χ^2/NDF : 763213.5/18

Left In: 30.141 $\pm$ 0.016 χ^2/NDF : 2740.0/1

Left: 31.455 $\pm$ 0.011 χ^2/NDF : 24429.9/4

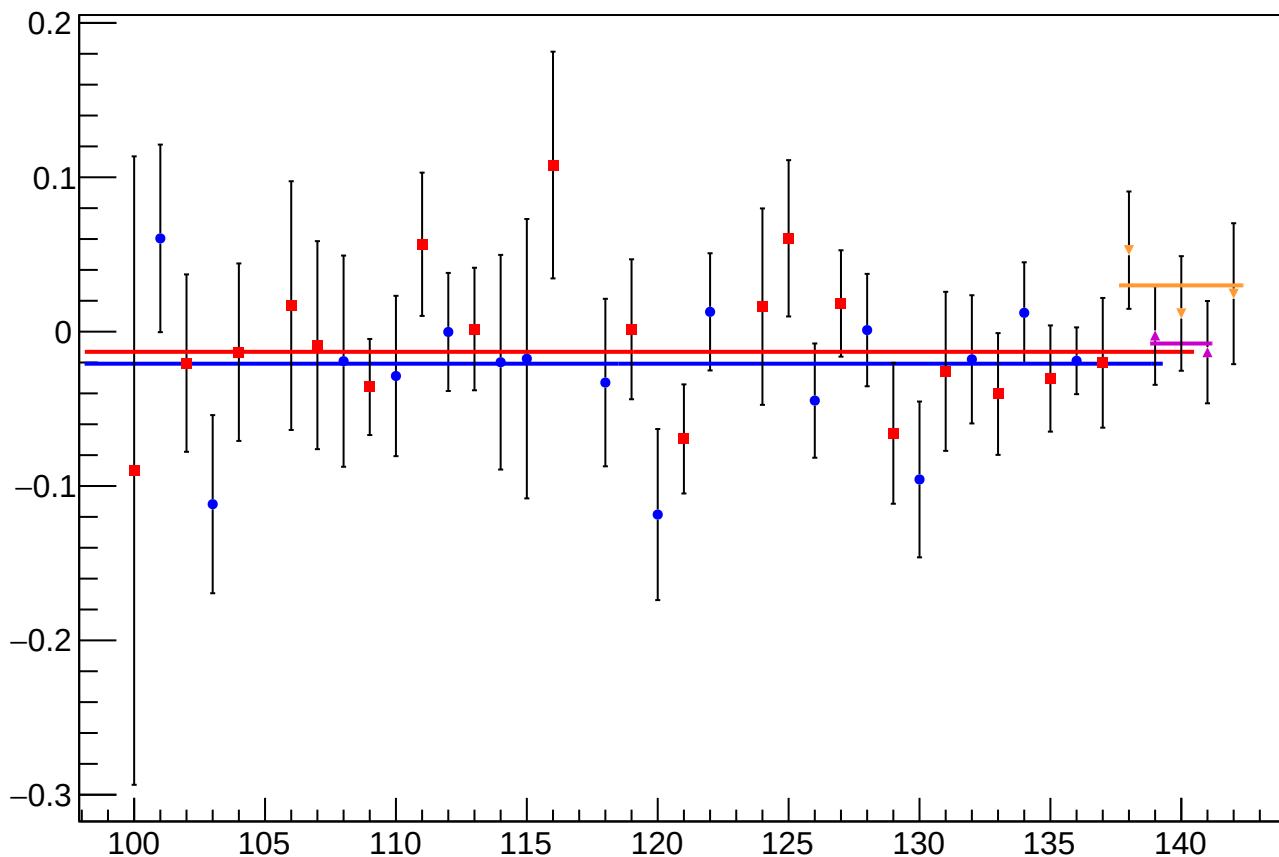
Right: 27.341 $\pm$ 0.005 χ^2/NDF : 1891338.8/34

In: 27.447 $\pm$ 0.007 χ^2/NDF : 1156454.5/17

Out: 28.665 $\pm$ 0.007 χ^2/NDF : 849086.4/21

All: 28.055 $\pm$ 0.005 χ^2/NDF : 2021723.7/39

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.011 χ^2/NDF : 12.5/15

Left Out: 0.030 ± 0.023 χ^2/NDF : 0.6/2

Right Out: -0.013 ± 0.011 χ^2/NDF : 13.9/18

Left In: -0.008 ± 0.023 χ^2/NDF : 0.1/1

Left: 0.011 ± 0.016 χ^2/NDF : 2.0/4

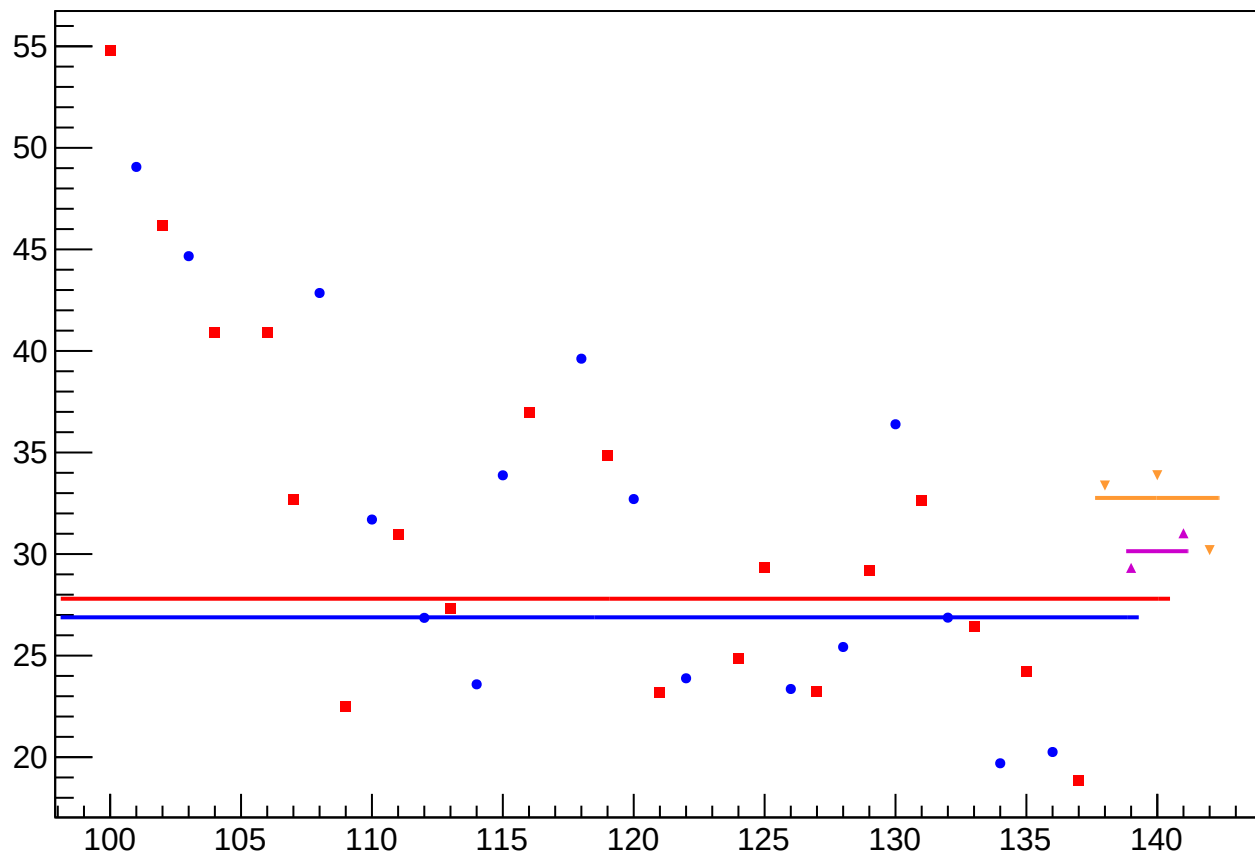
Right: -0.017 ± 0.007 χ^2/NDF : 26.7/34

In: -0.019 ± 0.010 χ^2/NDF : 12.9/17

Out: -0.006 ± 0.010 χ^2/NDF : 17.4/21

All: -0.012 ± 0.007 χ^2/NDF : 31.2/39

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 26.885 $\pm$ 0.007 χ^2 /NDF: 1120567.7/15

Left Out: 32.763 $\pm$ 0.016 χ^2 /NDF:8668.0/2

Right Out: 27.800 $\pm$ 0.007 χ^2 /NDF: 763213.5/18

Left In: 30.141 $\pm$ 0.016 χ^2 /NDF:2740.0/1

Left: 31.455 $\pm$ 0.011 χ^2 /NDF: 24429.9/4

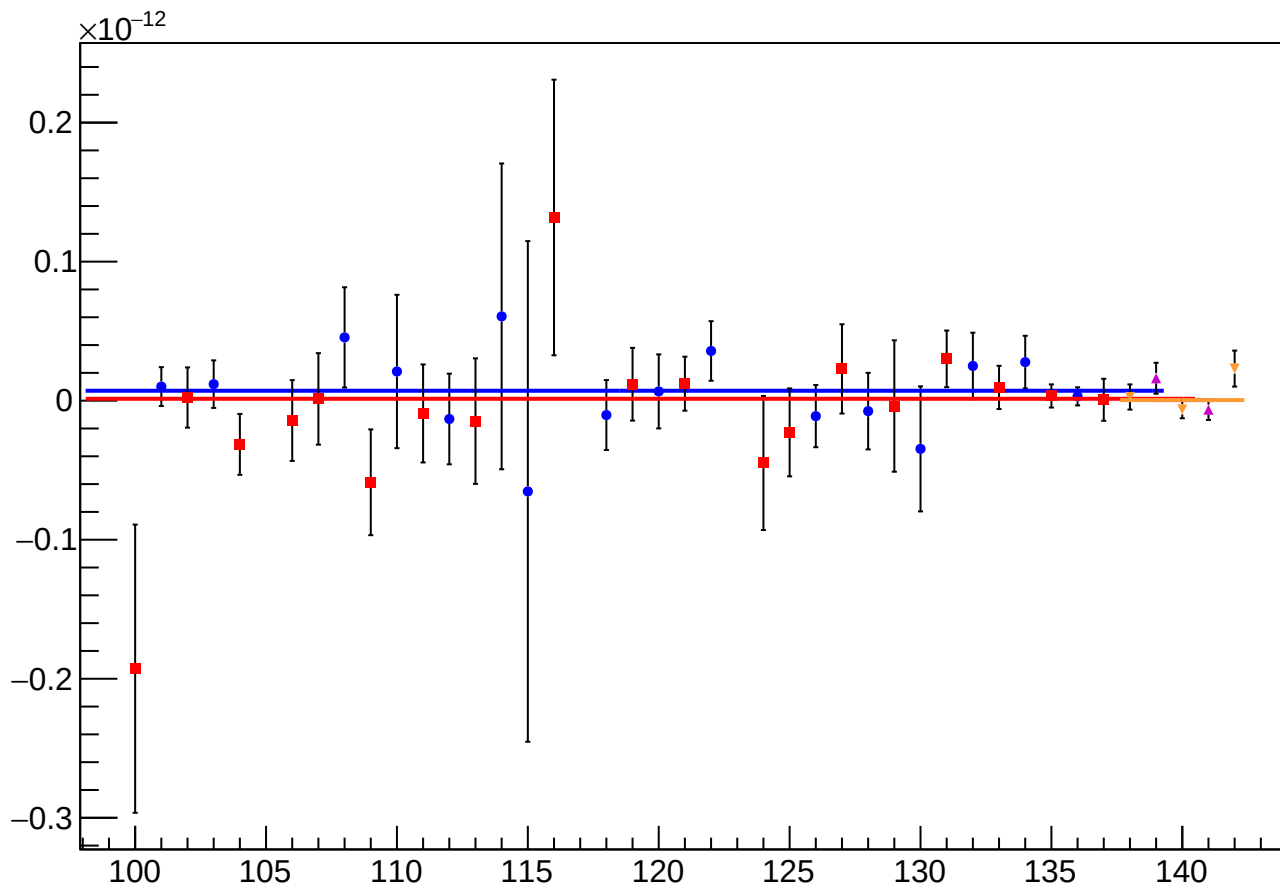
Right: 27.341 $\pm$ 0.005 χ^2 /NDF: 1891338.8/34

In: 27.447 $\pm$ 0.007 χ^2 /NDF:1156454.5/17

Out: 28.665 $\pm$ 0.007 χ^2 /NDF:849086.4/21

All: 28.055 $\pm$ 0.005 χ^2 /NDF: 2021723.7/39

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 4.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 15.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 2.9/1

Left: 0.000+/-0.000 χ^2/NDF : 7.1/4

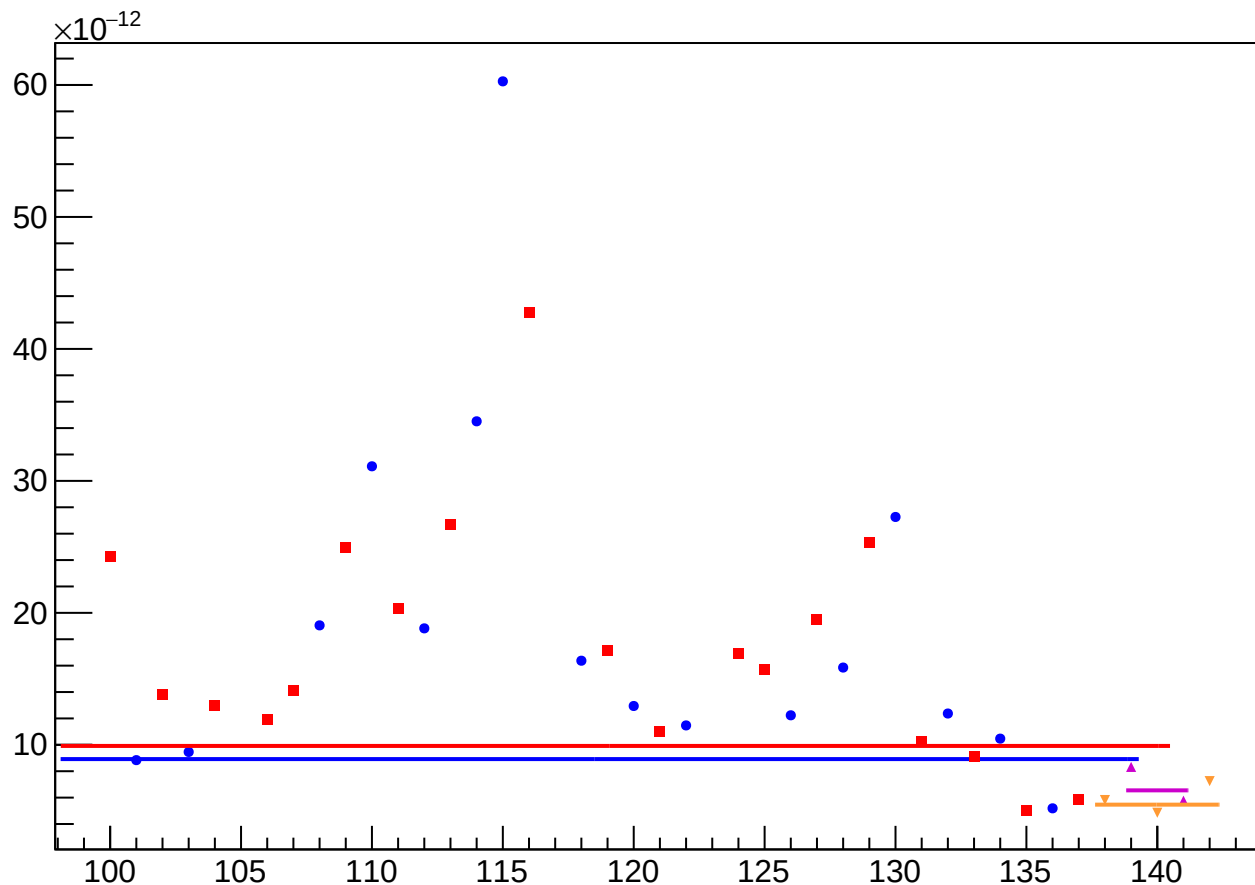
Right: 0.000+/-0.000 χ^2/NDF : 24.3/34

In: 0.000+/-0.000 χ^2/NDF : 11.9/17

Out: 0.000+/-0.000 χ^2/NDF : 19.5/21

All: 0.000+/-0.000 χ^2/NDF : 32.0/39

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2402804.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 59177.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2669812.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 73333.9/1

Left: 0.000+/-0.000 χ^2/NDF : 170703.6/4

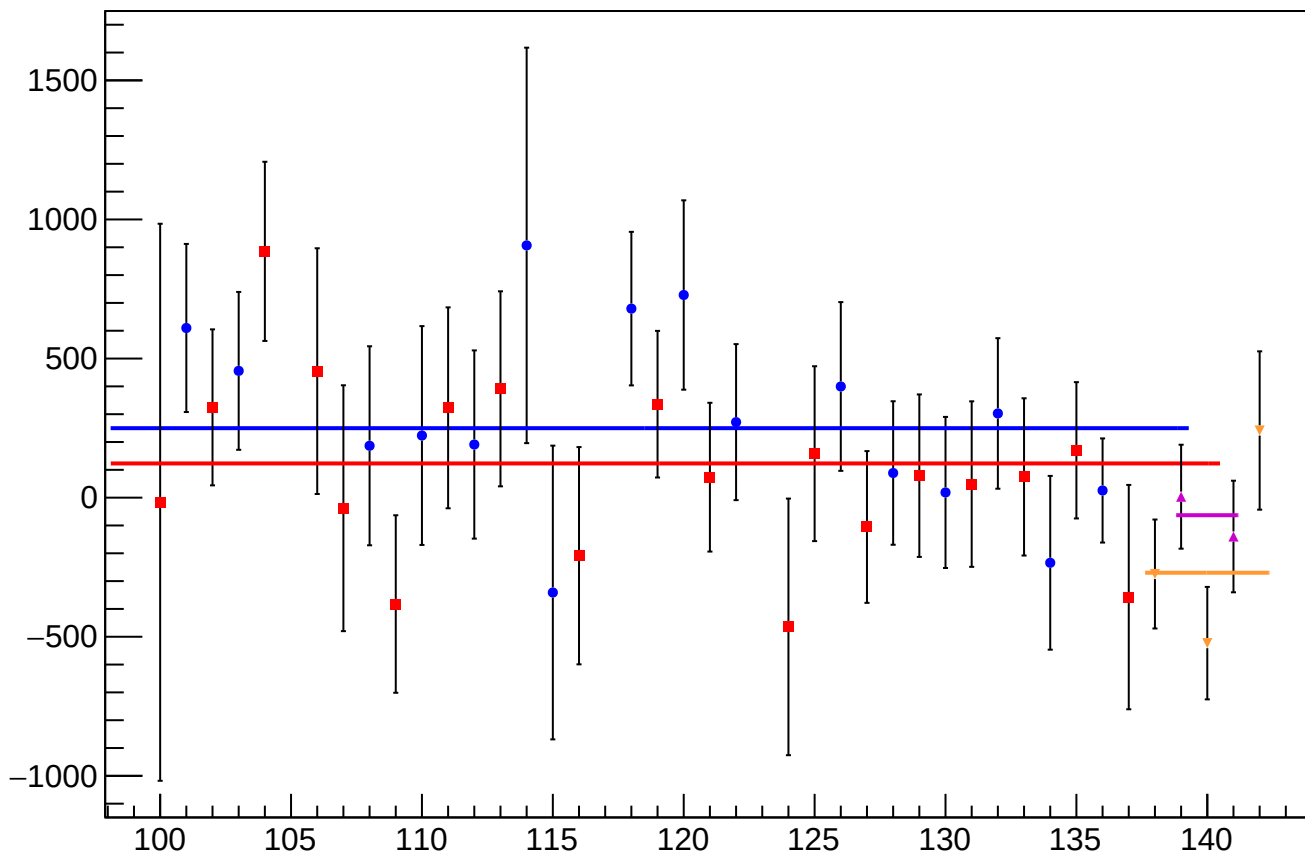
Right: 0.000+/-0.000 χ^2/NDF : 5116378.6/34

In: 0.000+/-0.000 χ^2/NDF : 2666871.9/17

Out: 0.000+/-0.000 χ^2/NDF : 3553383.3/21

All: 0.000+/-0.000 χ^2/NDF : 6234613.7/39

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 249.761 $\pm$ 74.877 χ^2 /NDF: 13.8/15

Left Out: -269.888 $\pm$ 126.095 χ^2 /NDF: 4.8/2

Right Out: 122.993 $\pm$ 74.370 χ^2 /NDF: 15.6/18

Left In: -63.069 $\pm$ 136.725 χ^2 /NDF: 0.3/1

Left: -174.830 $\pm$ 92.693 χ^2 /NDF: 6.3/4

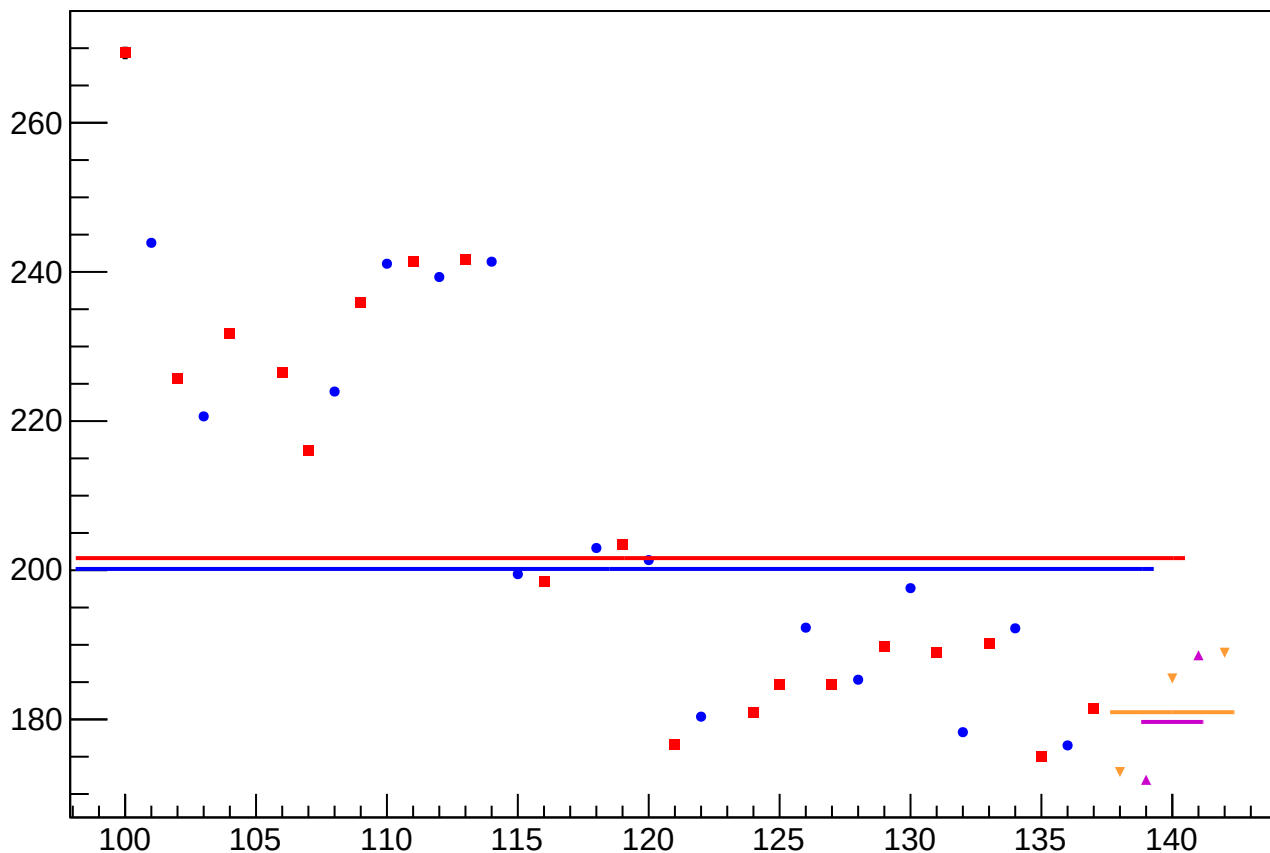
Right: 185.946 $\pm$ 52.766 χ^2 /NDF: 30.8/34

In: 177.585 $\pm$ 65.674 χ^2 /NDF: 18.1/17

Out: 21.598 $\pm$ 64.058 χ^2 /NDF: 27.6/21

All: 97.650 $\pm$ 45.857 χ^2 /NDF: 48.5/39

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 200.177 $\pm$ 0.053 χ^2 /NDF: 181001.3/15

Left Out: 180.968 $\pm$ 0.089 χ^2 /NDF: 5928.3/2

Right Out: 201.627 $\pm$ 0.053 χ^2 /NDF: 197245.7/18

Left In: 179.662 $\pm$ 0.097 χ^2 /NDF: 7424.8/1

Left: 180.367 $\pm$ 0.066 χ^2 /NDF: 13451.8/4

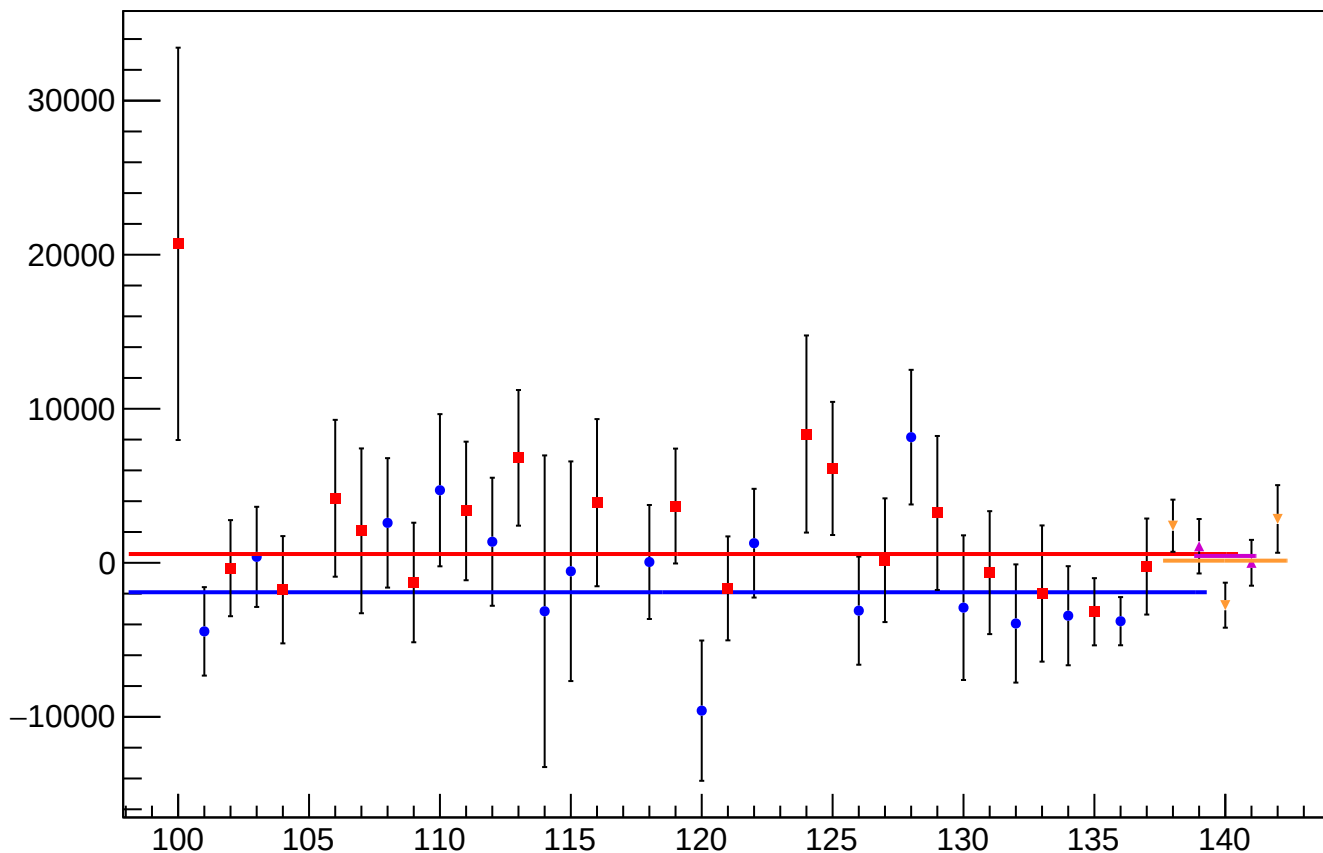
Right: 200.907 $\pm$ 0.037 χ^2 /NDF: 378624.7/34

In: 195.444 $\pm$ 0.046 χ^2 /NDF: 223065.7/17

Out: 196.295 $\pm$ 0.045 χ^2 /NDF: 243004.5/21

All: 195.880 $\pm$ 0.032 χ^2 /NDF: 466242.6/39

asym_sam_26_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -1910.348 $\pm$ 859.088 χ^2 /NDF: 16.3/15

Left Out: 140.412 $\pm$ 987.371 χ^2 /NDF: 7.2/2

Right Out: 570.946 $\pm$ 900.451 χ^2 /NDF: 14.6/18

Left In: 446.862 $\pm$ 1137.847 χ^2 /NDF: 0.2/1

Left: 272.047 $\pm$ 745.744 χ^2 /NDF: 7.5/4

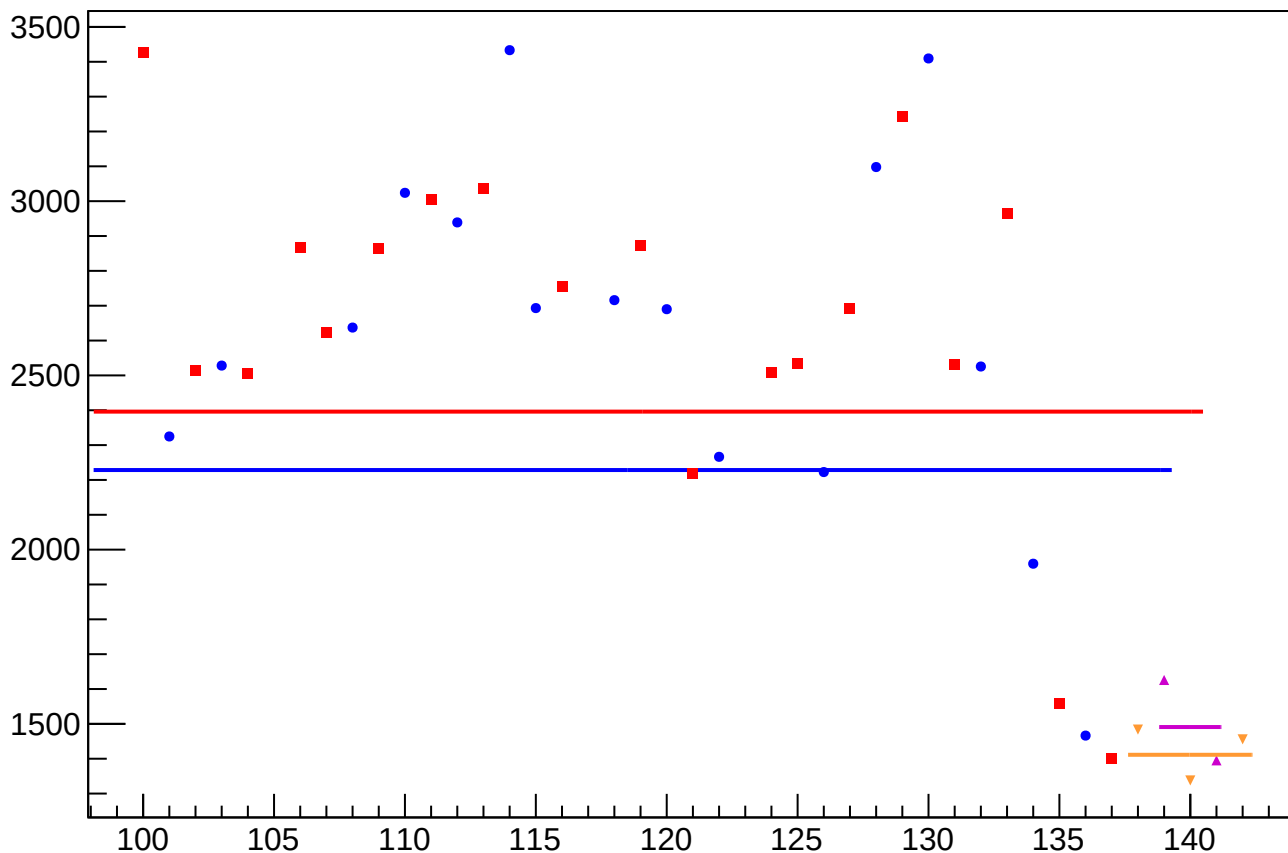
Right: -728.000 $\pm$ 621.575 χ^2 /NDF: 34.9/34

In: -1054.505 $\pm$ 685.617 χ^2 /NDF: 19.2/17

Out: 375.460 $\pm$ 665.326 χ^2 /NDF: 22.0/21

All: -318.050 $\pm$ 477.469 χ^2 /NDF: 43.4/39

asym_sam_26_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 2228.431+/-0.607 χ^2/NDF : 947654.8/15

Left Out: 1411.276+/-0.698 χ^2/NDF : 9552.9/2

Right Out: 2396.080+/-0.637 χ^2/NDF : 799442.5/18

Left In: 1490.924+/-0.805 χ^2/NDF : 19945.9/1

Left: 1445.488+/-0.527 χ^2/NDF : 35089.0/4

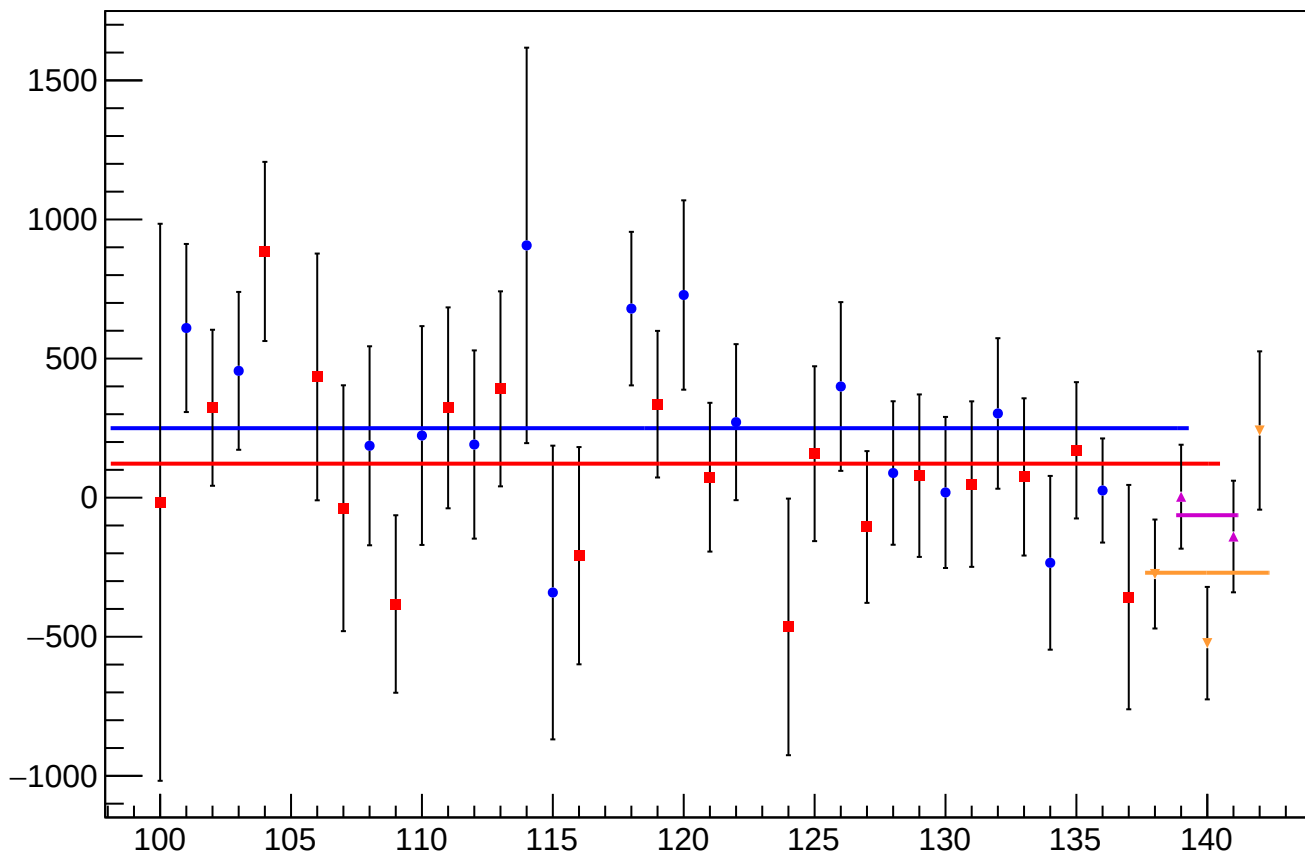
Right: 2308.317+/-0.440 χ^2/NDF : 1783390.1/34

In: 1960.661+/-0.485 χ^2/NDF : 1502760.9/17

Out: 1948.924+/-0.470 χ^2/NDF : 1895215.0/21

All: 1954.616+/-0.338 χ^2/NDF : 3398277.7/39

cor_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 249.764 $\pm$ 74.877 χ^2 /NDF: 13.8/15

Left Out: -269.875 $\pm$ 126.095 χ^2 /NDF: 4.8/2

Right Out: 122.210 $\pm$ 74.380 χ^2 /NDF: 15.5/18

Left In: -63.056 $\pm$ 136.725 χ^2 /NDF: 0.3/1

Left: -174.817 $\pm$ 92.693 χ^2 /NDF: 6.3/4

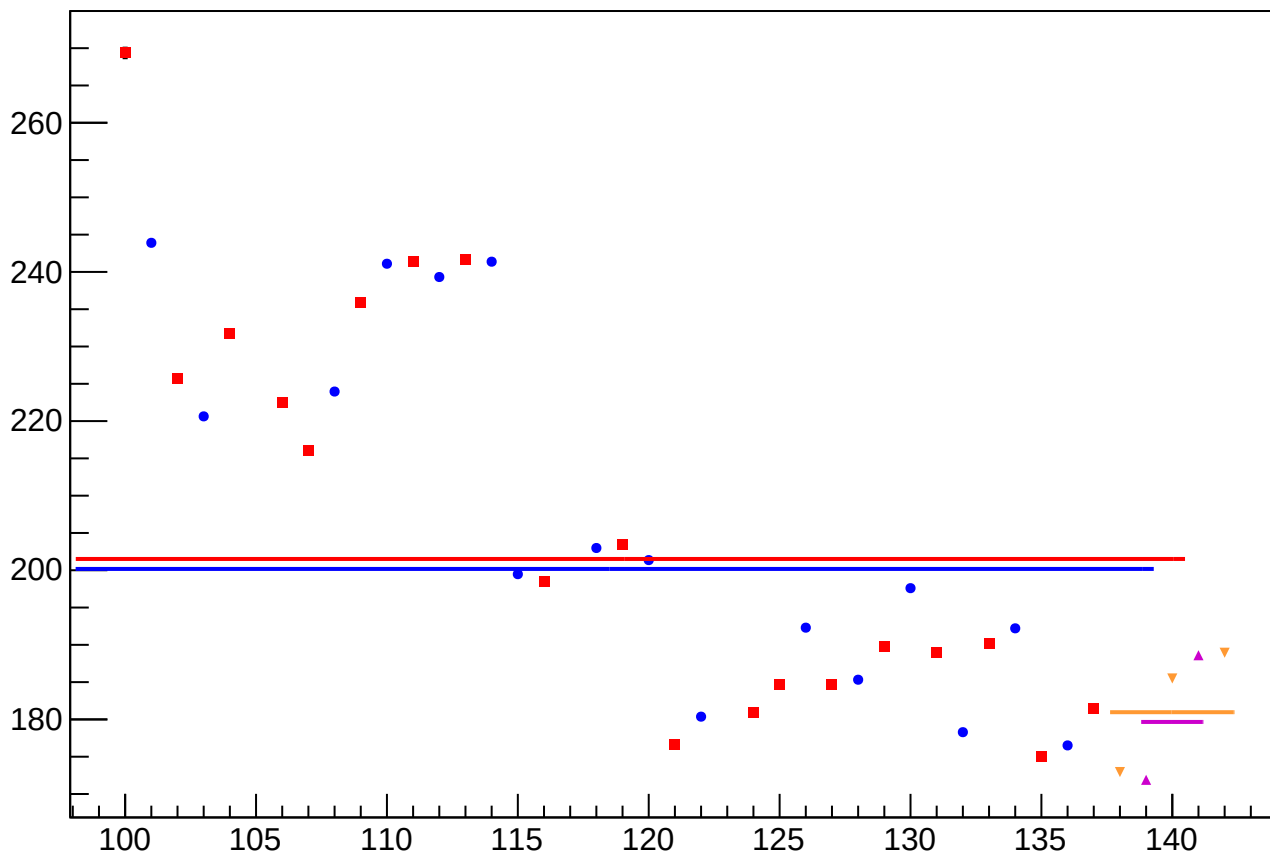
Right: 185.562 $\pm$ 52.770 χ^2 /NDF: 30.7/34

In: 177.590 $\pm$ 65.674 χ^2 /NDF: 18.1/17

Out: 21.000 $\pm$ 64.065 χ^2 /NDF: 27.4/21

All: 97.354 $\pm$ 45.859 χ^2 /NDF: 48.4/39

cor_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 200.177 $\pm$ 0.053 χ^2 /NDF: 181001.6/15

Left Out: 180.968 $\pm$ 0.089 χ^2 /NDF: 5928.3/2

Right Out: 201.514 $\pm$ 0.053 χ^2 /NDF: 195431.2/18

Left In: 179.662 $\pm$ 0.097 χ^2 /NDF: 7424.9/1

Left: 180.367 $\pm$ 0.066 χ^2 /NDF: 13451.8/4

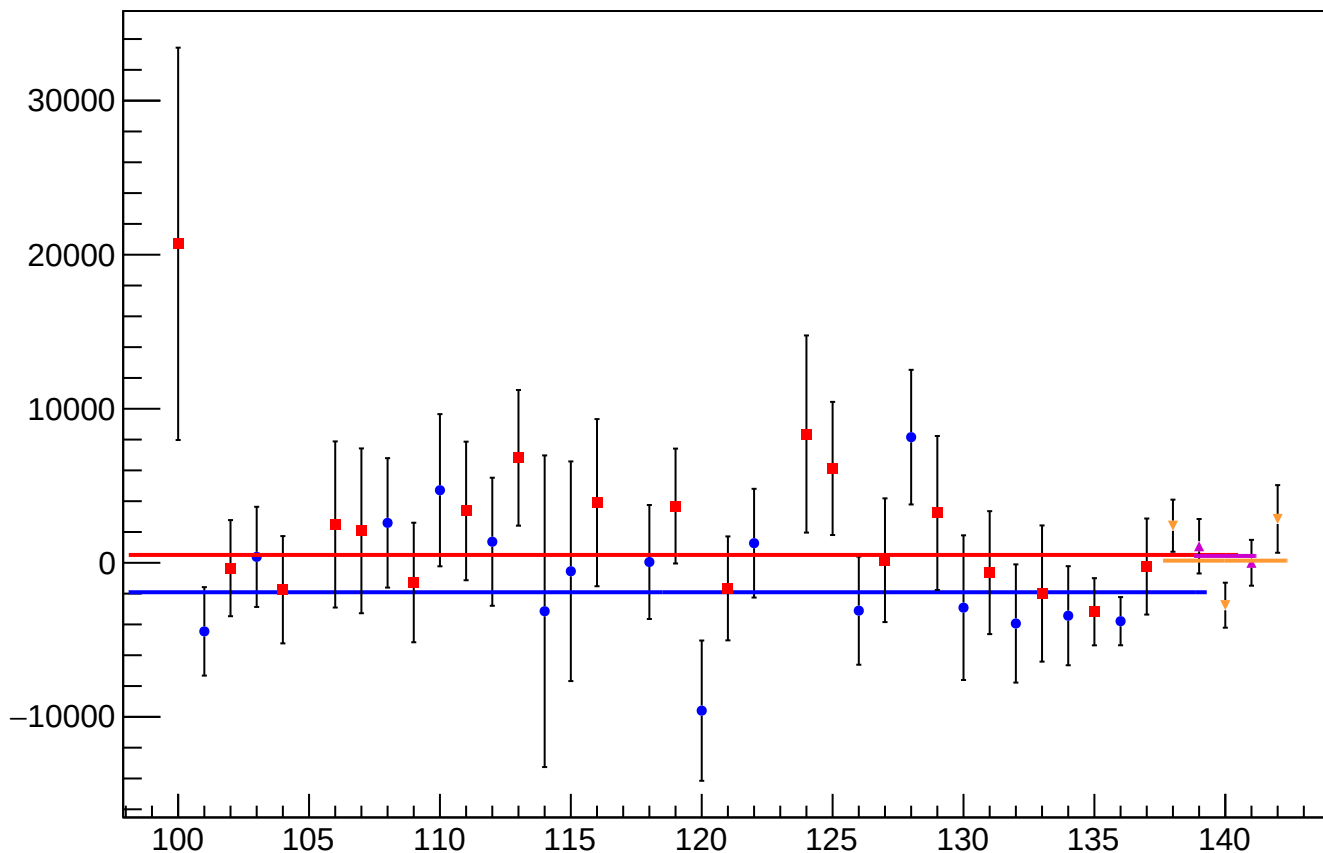
Right: 200.850 $\pm$ 0.037 χ^2 /NDF: 376754.0/34

In: 195.444 $\pm$ 0.046 χ^2 /NDF: 223066.1/17

Out: 196.211 $\pm$ 0.045 χ^2 /NDF: 240753.5/21

All: 195.837 $\pm$ 0.032 χ^2 /NDF: 463959.4/39

asym_sam_26_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -1910.310 $\pm$ 859.089 χ^2 /NDF: 16.3/15

Left Out: 140.400 $\pm$ 987.371 χ^2 /NDF:7.2/2

Right Out: 511.276 $\pm$ 902.014 χ^2 /NDF: 14.2/18

Left In: 446.907 $\pm$ 1137.847 χ^2 /NDF:0.2/1

Left: 272.059 $\pm$ 745.744 χ^2 /NDF: 7.5/4

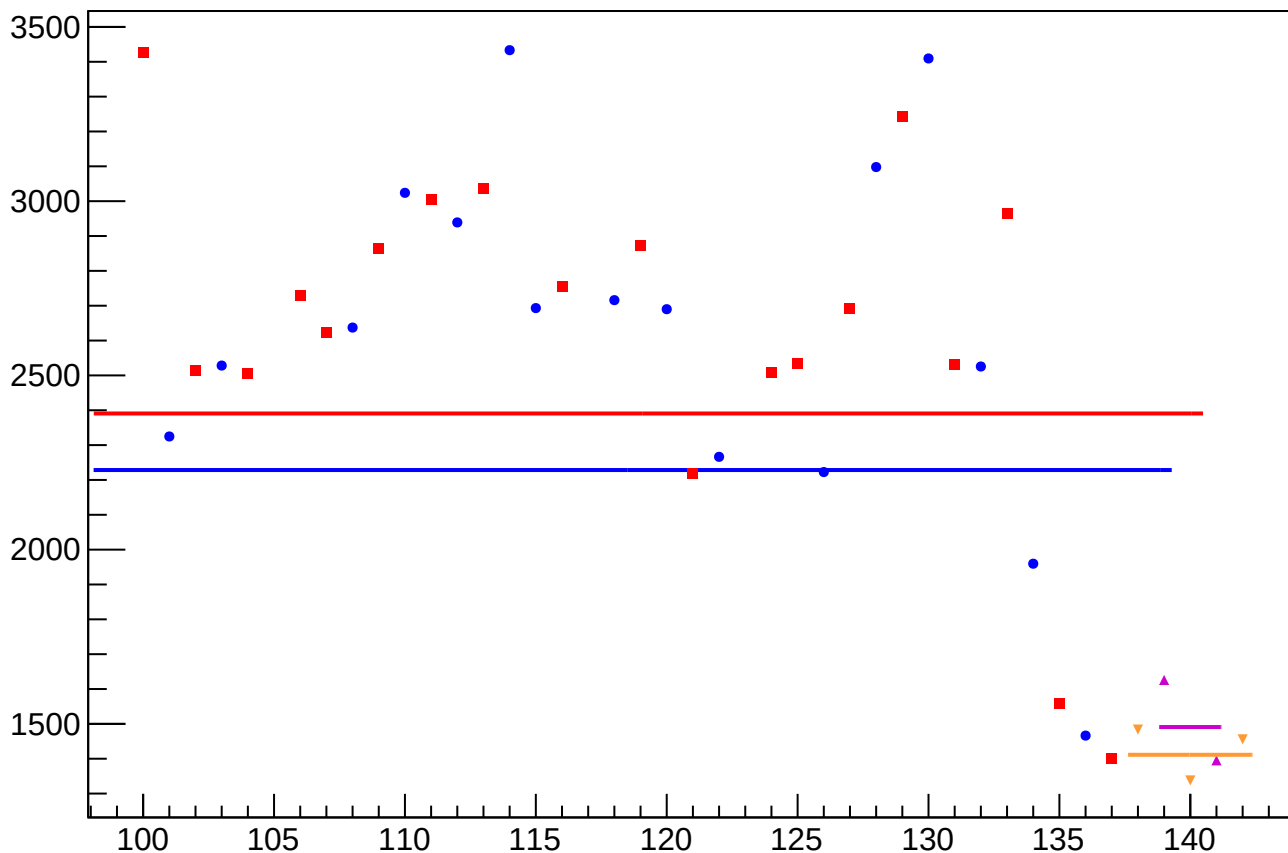
Right: -758.506 $\pm$ 622.089 χ^2 /NDF: 34.3/34

In: -1054.463 $\pm$ 685.618 χ^2 /NDF:19.2/17

Out: 342.559 $\pm$ 665.956 χ^2 /NDF:21.6/21

All: -335.633 $\pm$ 477.702 χ^2 /NDF: 42.9/39

asym_sam_26_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 2228.435+/-0.607 χ^2/NDF : 947659.2/15

Left Out: 1411.276+/-0.698 χ^2/NDF : 9553.2/2

Right Out: 2390.731+/-0.638 χ^2/NDF : 790004.4/18

Left In: 1490.924+/-0.805 χ^2/NDF : 19945.9/1

Left: 1445.489+/-0.527 χ^2/NDF : 35089.5/4

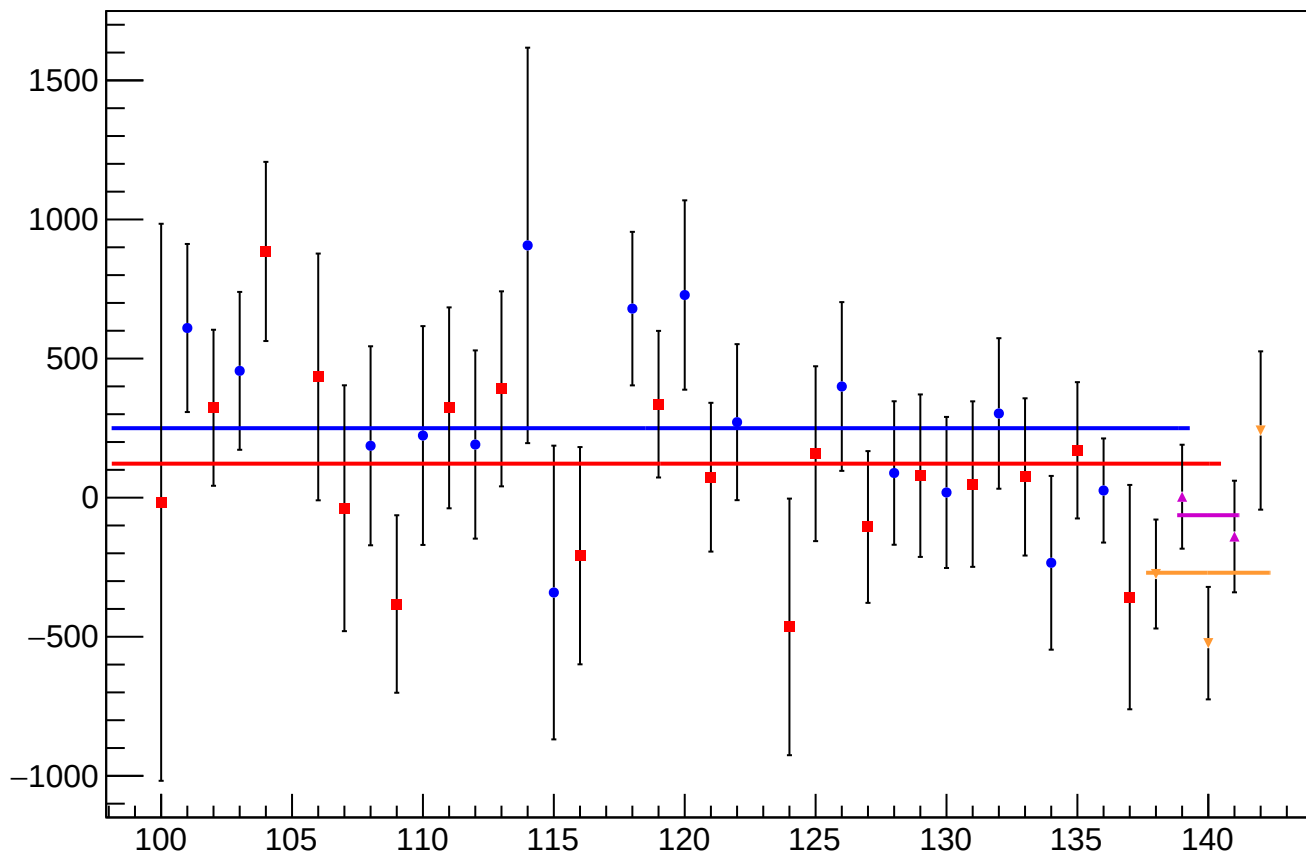
Right: 2305.630+/-0.440 χ^2/NDF : 1771614.3/34

In: 1960.663+/-0.485 χ^2/NDF : 1502769.2/17

Out: 1945.162+/-0.471 χ^2/NDF : 1872318.1/21

All: 1952.687+/-0.338 χ^2/NDF : 3375613.4/39

eigen_cor_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 249.764 $\pm$ 74.877 χ^2 /NDF: 13.8/15

Left Out: -269.875 $\pm$ 126.095 χ^2 /NDF: 4.8/2

Right Out: 122.210 $\pm$ 74.380 χ^2 /NDF: 15.5/18

Left In: -63.056 $\pm$ 136.725 χ^2 /NDF: 0.3/1

Left: -174.817 $\pm$ 92.693 χ^2 /NDF: 6.3/4

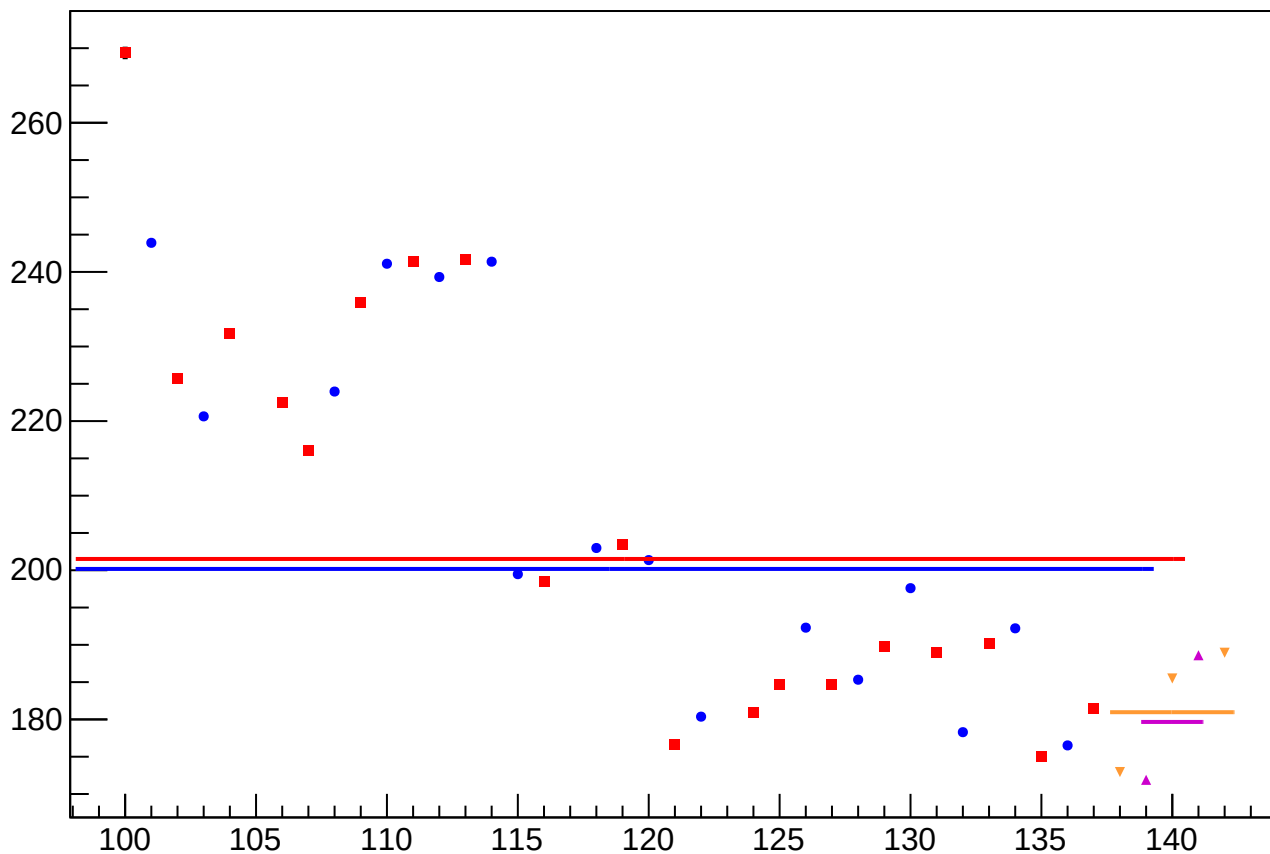
Right: 185.562 $\pm$ 52.770 χ^2 /NDF: 30.7/34

In: 177.590 $\pm$ 65.674 χ^2 /NDF: 18.1/17

Out: 21.000 $\pm$ 64.065 χ^2 /NDF: 27.4/21

All: 97.354 $\pm$ 45.859 χ^2 /NDF: 48.4/39

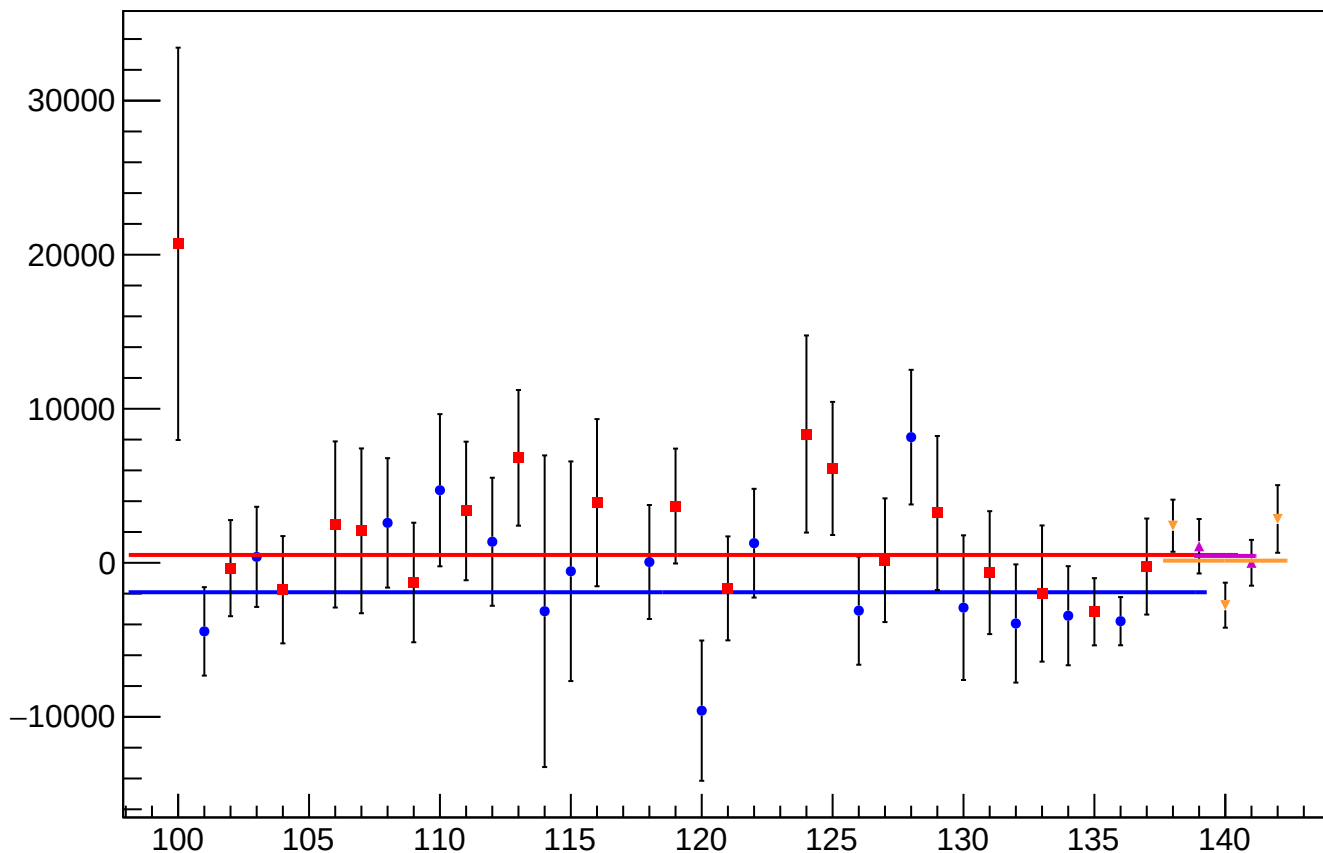
eigen_cor_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 200.177+/-0.053 χ^2/NDF : 181001.6/15
 Left Out: 180.968+/-0.089 χ^2/NDF : 5928.3/2
 Right Out: 201.514+/-0.053 χ^2/NDF : 195431.2/18
 Left In: 179.662+/-0.097 χ^2/NDF : 7424.9/1

Left: 180.367+/-0.066 χ^2/NDF : 13451.8/4
 Right: 200.850+/-0.037 χ^2/NDF : 376754.0/34
 In: 195.444+/-0.046 χ^2/NDF : 223066.1/17
 Out: 196.211+/-0.045 χ^2/NDF : 240753.5/21
 All: 195.837+/-0.032 χ^2/NDF : 463959.4/39

asym_sam_26_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1910.310 ± 859.089 χ^2/NDF : 16.3/15

Left Out: 140.400 ± 987.371 χ^2/NDF : 7.2/2

Right Out: 511.276 ± 902.014 χ^2/NDF : 14.2/18

Left In: 446.907 ± 1137.847 χ^2/NDF : 0.2/1

Left: 272.059 ± 745.744 χ^2/NDF : 7.5/4

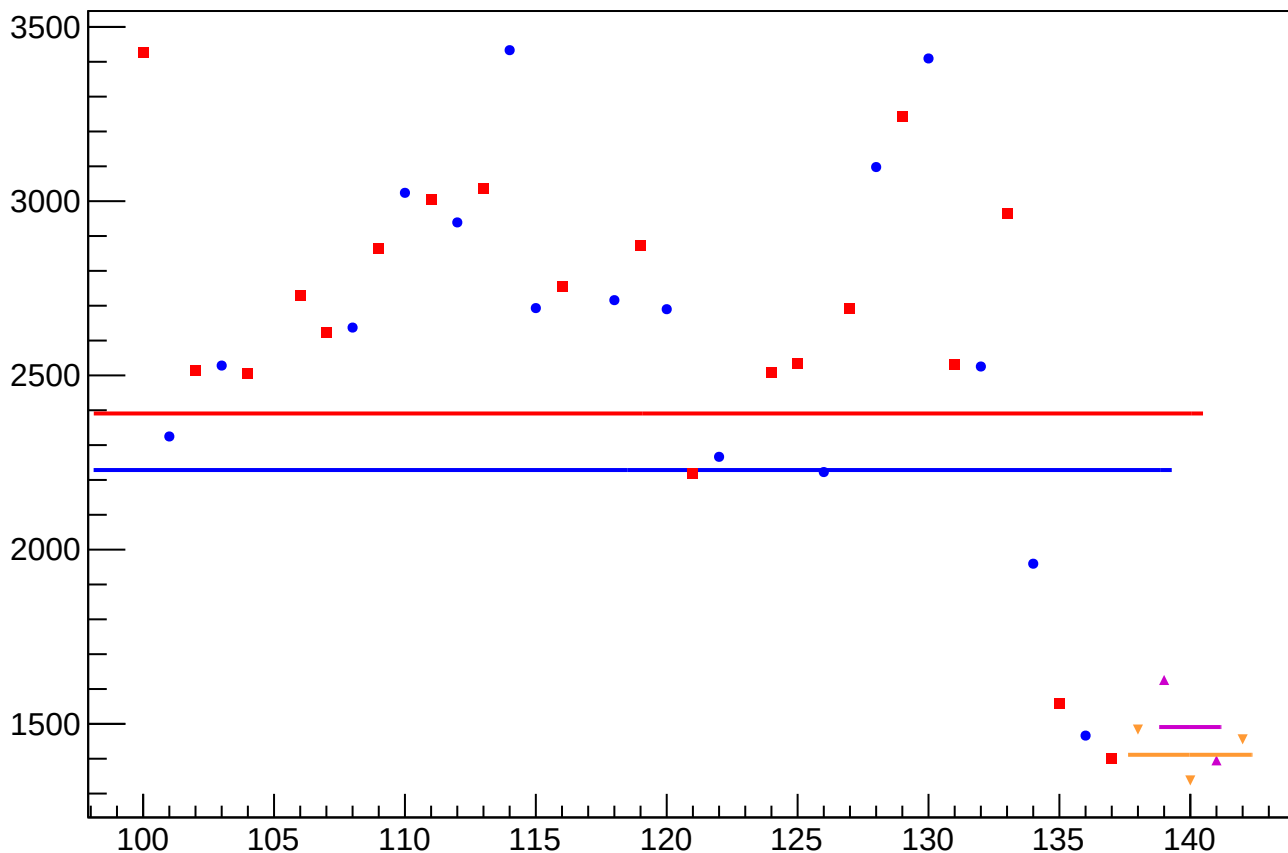
Right: -758.506 ± 622.089 χ^2/NDF : 34.3/34

In: -1054.463 ± 685.618 χ^2/NDF : 19.2/17

Out: 342.559 ± 665.956 χ^2/NDF : 21.6/21

All: -335.633 ± 477.702 χ^2/NDF : 42.9/39

asym_sam_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2228.435 $\pm$ 0.607 χ^2 /NDF: 947659.2/15

Left Out: 1411.276 $\pm$ 0.698 χ^2 /NDF: 9553.2/2

Right Out: 2390.731 $\pm$ 0.638 χ^2 /NDF: 790004.4/18

Left In: 1490.924 $\pm$ 0.805 χ^2 /NDF: 19945.9/1

Left: 1445.489 $\pm$ 0.527 χ^2 /NDF: 35089.5/4

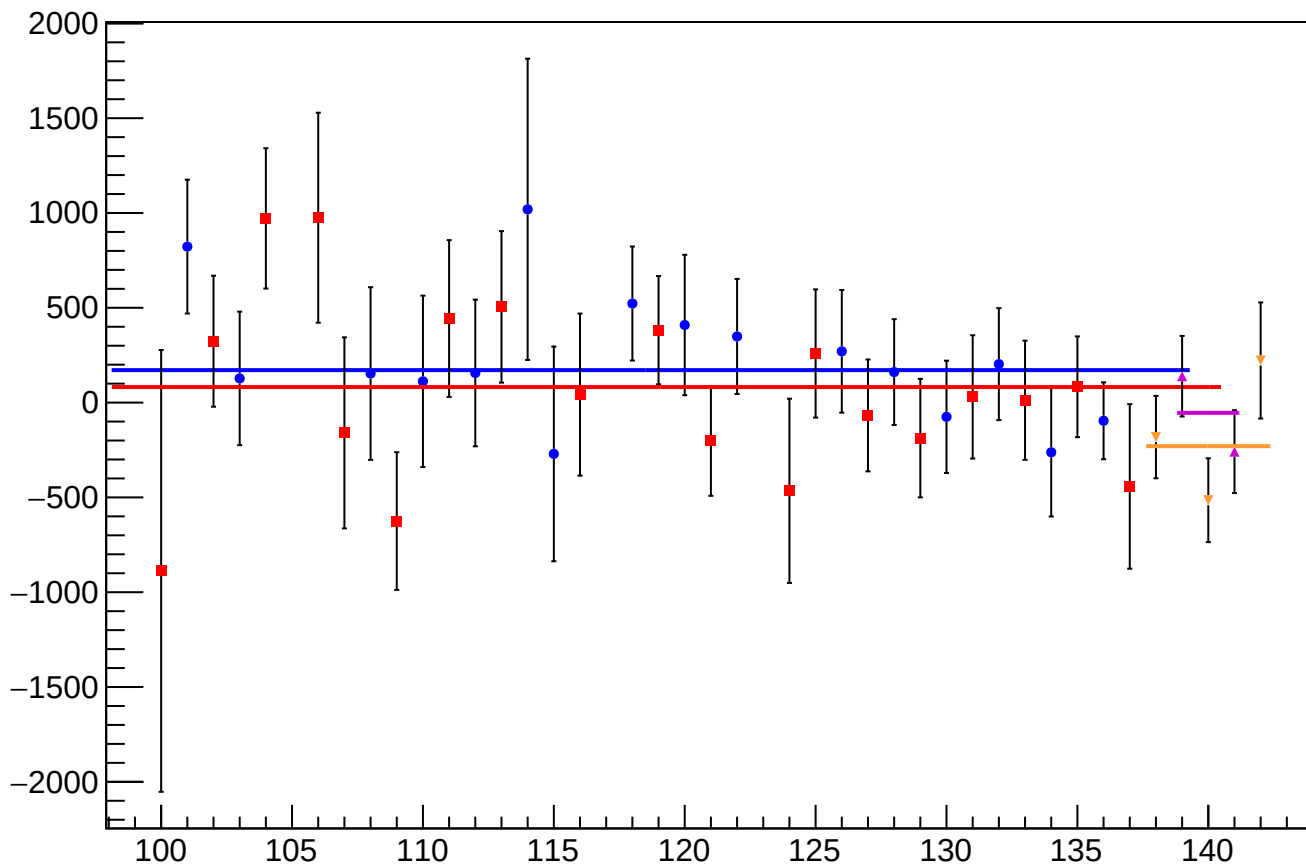
Right: 2305.630 $\pm$ 0.440 χ^2 /NDF: 1771614.3/34

In: 1960.663 $\pm$ 0.485 χ^2 /NDF: 1502769.2/17

Out: 1945.162 $\pm$ 0.471 χ^2 /NDF: 1872318.1/21

All: 1952.687 $\pm$ 0.338 χ^2 /NDF: 3375613.4/39

dit_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 171.258 $\pm$ 83.116 χ^2 /NDF: 11.5/15

Left Out: -229.623 $\pm$ 138.255 χ^2 /NDF:3.9/2

Right Out: 82.152 $\pm$ 82.545 χ^2 /NDF: 21.6/18

Left In: -54.146 $\pm$ 152.316 χ^2 /NDF:1.7/1

Left: -150.356 $\pm$ 102.372 χ^2 /NDF: 6.3/4

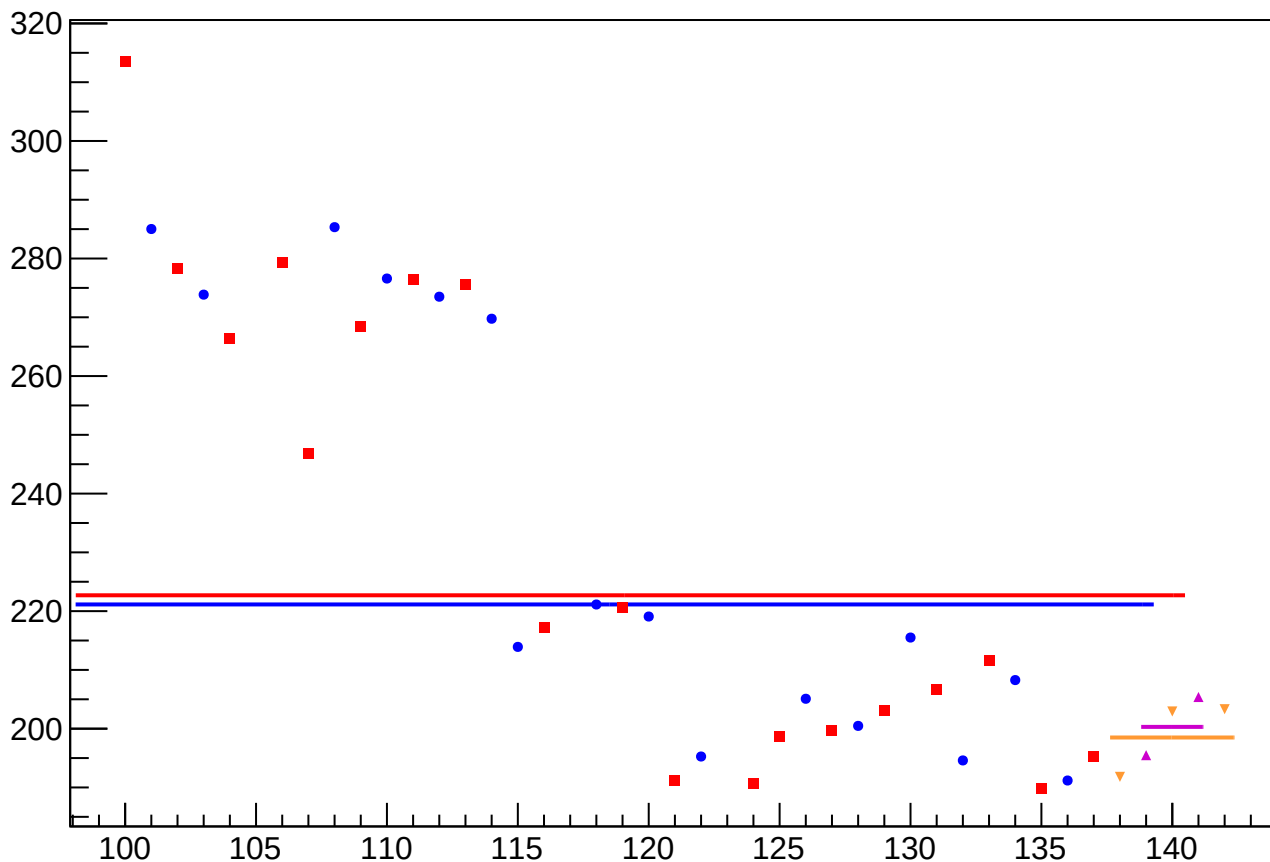
Right: 126.398 $\pm$ 58.569 χ^2 /NDF: 33.7/34

In: 119.541 $\pm$ 72.960 χ^2 /NDF:14.9/17

Out: 0.220 $\pm$ 70.874 χ^2 /NDF:29.2/21

All: 58.150 $\pm$ 50.837 χ^2 /NDF: 45.5/39

dit_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 221.139 ± 0.059 χ^2/NDF : 318702.0/15

Left Out: 198.499 ± 0.098 χ^2/NDF : 3198.2/2

Right Out: 222.697 ± 0.058 χ^2/NDF : 327032.3/18

Left In: 200.306 ± 0.108 χ^2/NDF : 2110.1/1

Left: 199.315 ± 0.072 χ^2/NDF : 5462.4/4

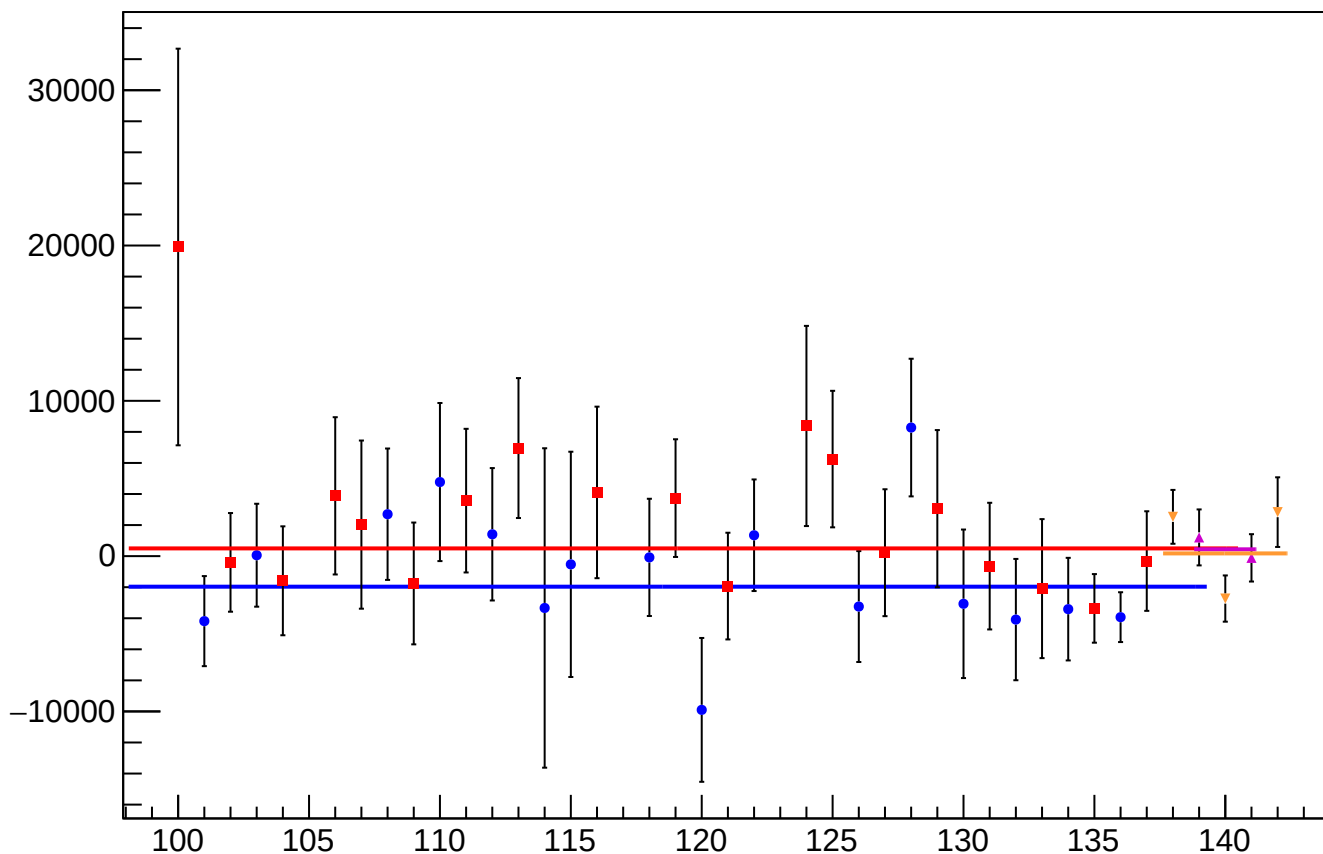
Right: 221.924 ± 0.041 χ^2/NDF : 646088.3/34

In: 216.359 ± 0.052 χ^2/NDF : 349643.6/17

Out: 216.338 ± 0.050 χ^2/NDF : 375397.1/21

All: 216.348 ± 0.036 χ^2/NDF : 725040.7/39

asym_sam_26_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -1967.414 ± 876.610 $\chi^2/\text{NDF}: 16.2/15$

Left Out: 174.999 ± 1008.729 $\chi^2/\text{NDF}: 7.1/2$

Right Out: 497.281 ± 914.759 $\chi^2/\text{NDF}: 14.8/18$

Left In: 437.966 ± 1163.882 $\chi^2/\text{NDF}: 0.3/1$

Left: 287.799 ± 762.276 $\chi^2/\text{NDF}: 7.4/4$

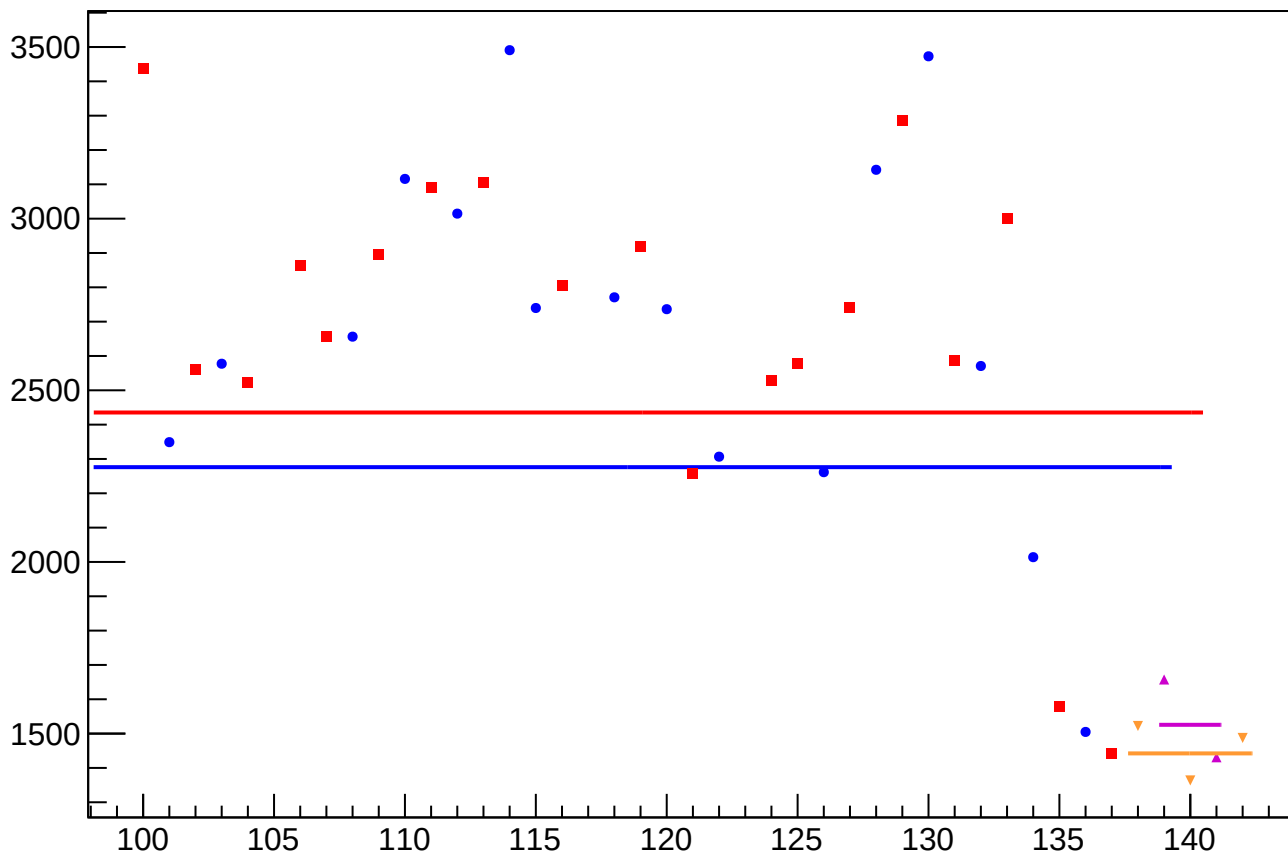
Right: -787.531 ± 632.914 $\chi^2/\text{NDF}: 34.7/34$

In: -1096.786 ± 700.218 $\chi^2/\text{NDF}: 19.2/17$

Out: 351.847 ± 677.624 $\chi^2/\text{NDF}: 21.9/21$

All: -348.721 ± 486.945 $\chi^2/\text{NDF}: 43.3/39$

asym_sam_26_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2276.134 $\pm$ 0.620 χ^2 /NDF: 926982.8/15

Left Out: 1442.309 $\pm$ 0.713 χ^2 /NDF: 10652.0/2

Right Out: 2435.354 $\pm$ 0.647 χ^2 /NDF: 791515.5/18

Left In: 1525.594 $\pm$ 0.823 χ^2 /NDF: 18429.3/1

Left: 1478.034 $\pm$ 0.539 χ^2 /NDF: 34929.4/4

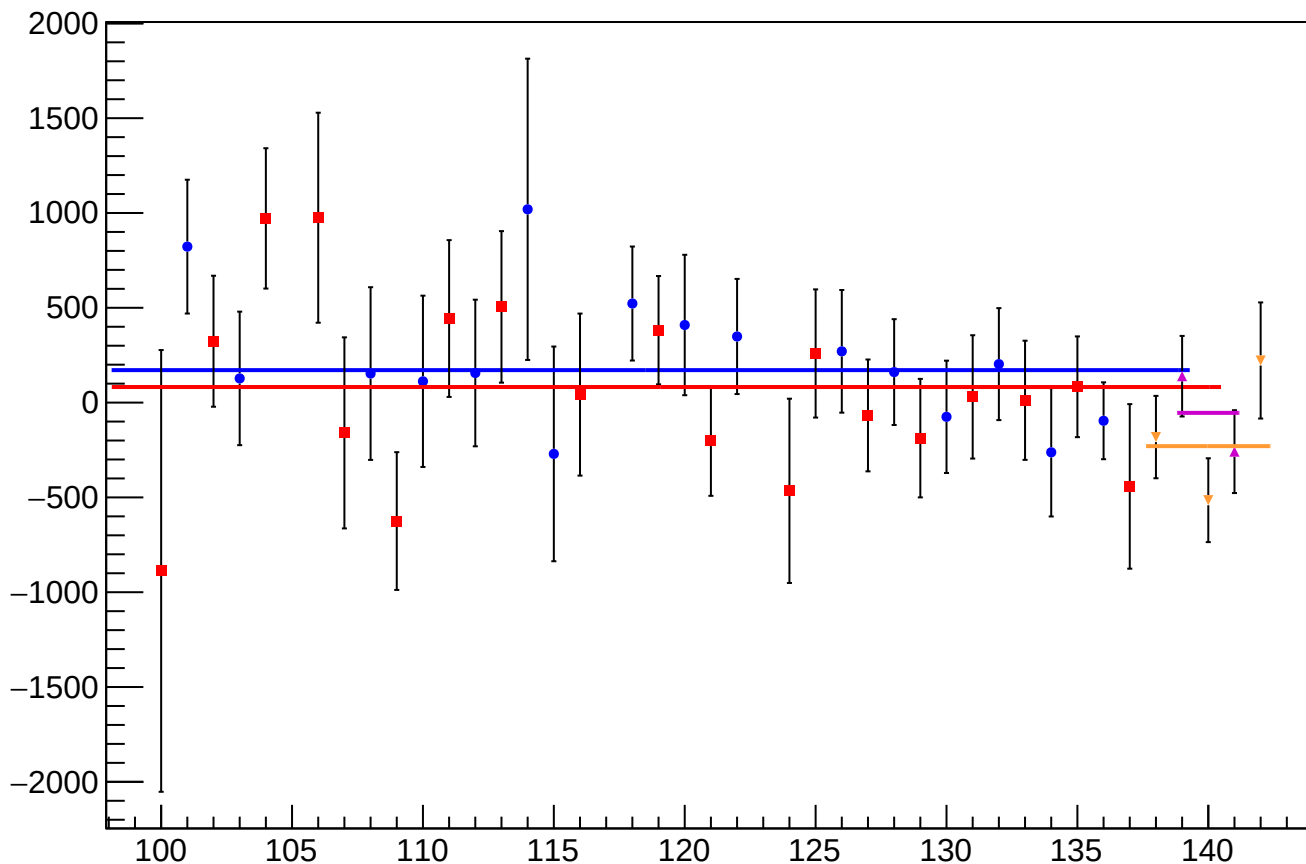
Right: 2352.355 $\pm$ 0.448 χ^2 /NDF: 1750083.9/34

In: 2004.476 $\pm$ 0.495 χ^2 /NDF: 1476070.4/17

Out: 1987.231 $\pm$ 0.479 χ^2 /NDF: 1865780.5/21

All: 1995.571 $\pm$ 0.344 χ^2 /NDF: 3342477.4/39

eigen_dit_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 171.260 $\pm$ 83.115 χ^2 /NDF: 11.5/15

Left Out: -229.627 $\pm$ 138.255 χ^2 /NDF:3.9/2

Right Out: 82.150 $\pm$ 82.545 χ^2 /NDF: 21.6/18

Left In: -54.146 $\pm$ 152.316 χ^2 /NDF:1.7/1

Left: -150.359 $\pm$ 102.372 χ^2 /NDF: 6.3/4

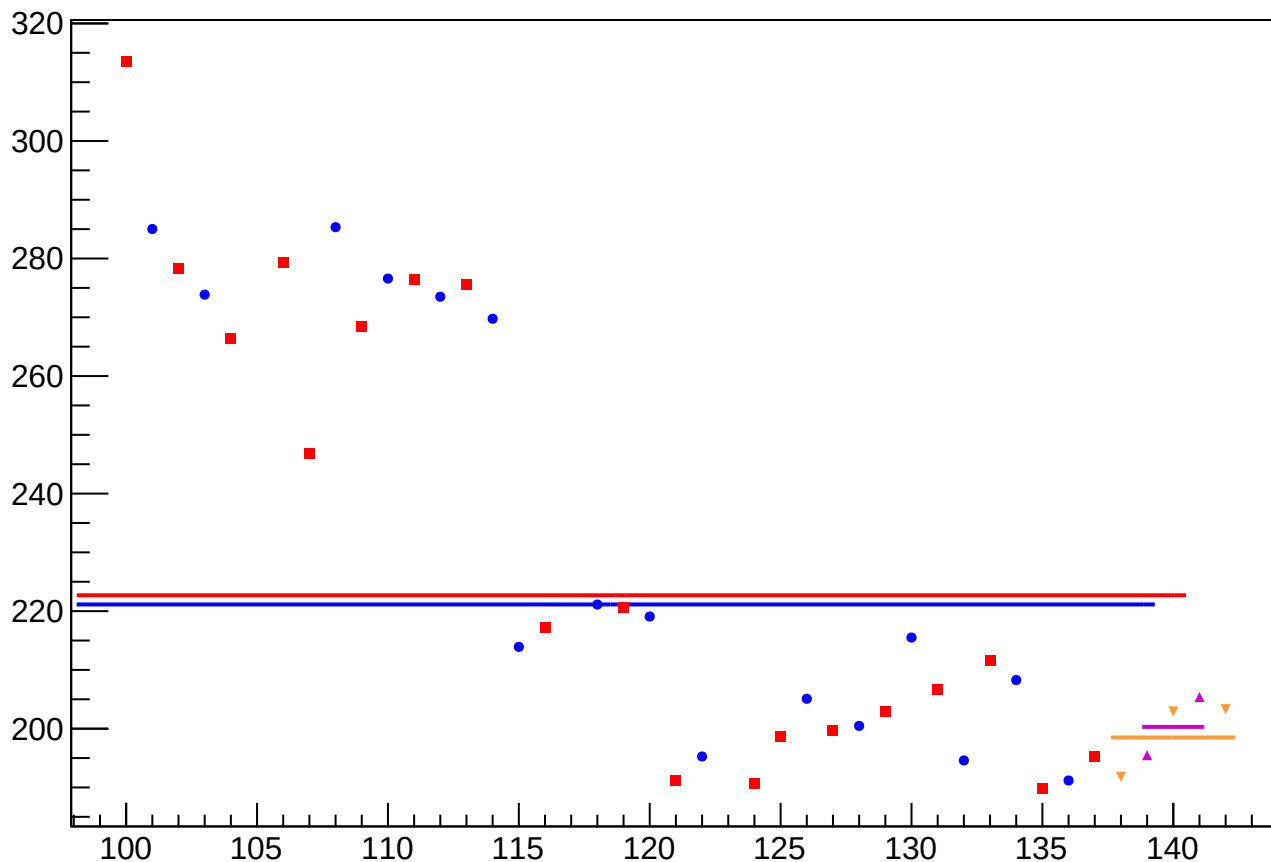
Right: 126.398 $\pm$ 58.569 χ^2 /NDF: 33.7/34

In: 119.542 $\pm$ 72.960 χ^2 /NDF:14.9/17

Out: 0.218 $\pm$ 70.874 χ^2 /NDF:29.2/21

All: 58.150 $\pm$ 50.837 χ^2 /NDF: 45.5/39

eigen_dit_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 221.138+/-0.059 χ^2/NDF : 318696.9/15

Left Out: 198.499+/-0.098 χ^2/NDF :3198.4/2

Right Out: 222.696+/-0.058 χ^2/NDF : 327025.2/18

Left In: 200.305+/-0.108 χ^2/NDF :2110.3/1

Left: 199.315+/-0.072 χ^2/NDF : 5462.8/4

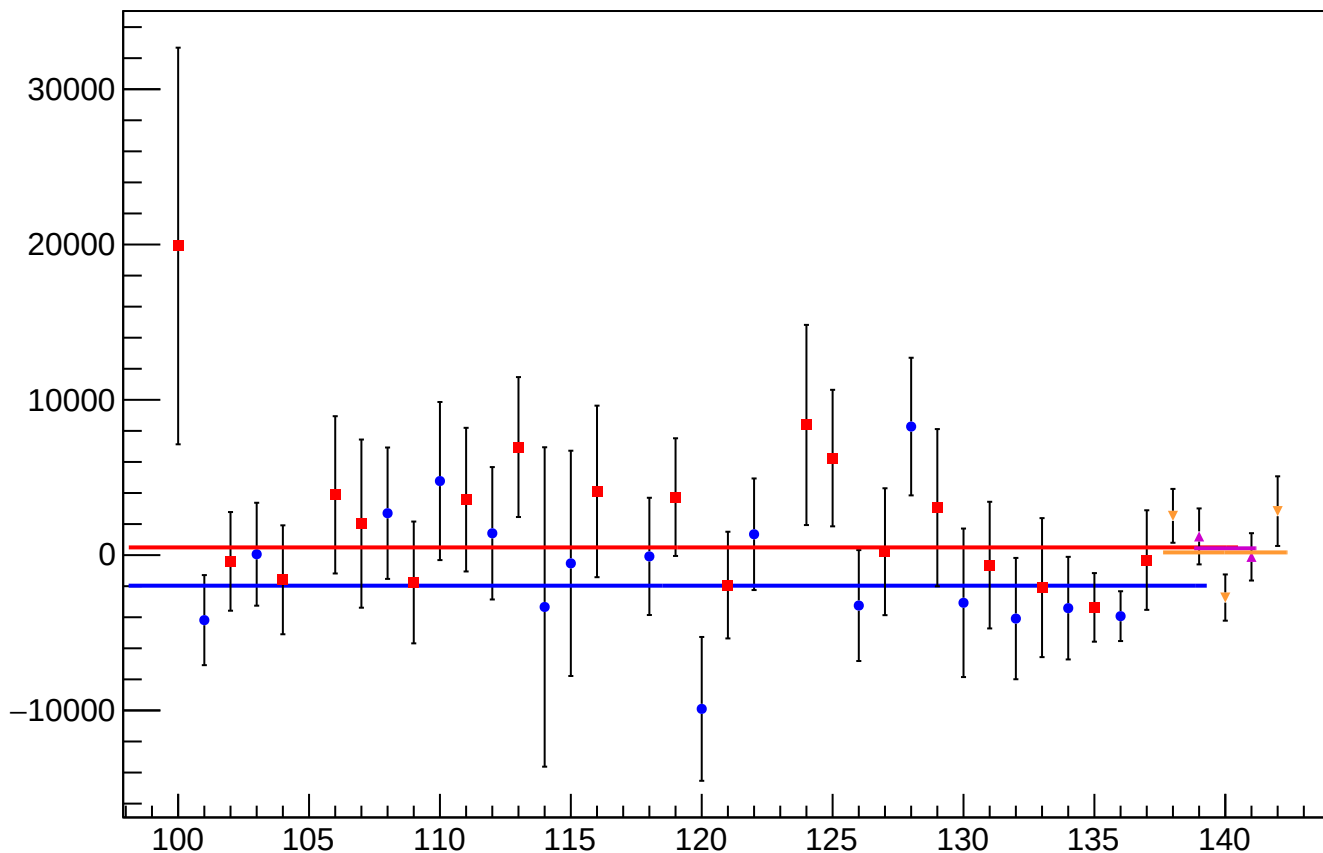
Right: 221.923+/-0.041 χ^2/NDF : 646076.2/34

In: 216.358+/-0.052 χ^2/NDF :349636.5/17

Out: 216.338+/-0.050 χ^2/NDF :375387.7/21

All: 216.347+/-0.036 χ^2/NDF : 725024.3/39

asym_sam_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1967.409 $\pm$ 876.608 χ^2 /NDF: 16.2/15

Left Out: 174.996 $\pm$ 1008.729 χ^2 /NDF: 7.1/2

Right Out: 497.282 $\pm$ 914.757 χ^2 /NDF: 14.8/18

Left In: 437.967 $\pm$ 1163.881 χ^2 /NDF: 0.3/1

Left: 287.797 $\pm$ 762.275 χ^2 /NDF: 7.4/4

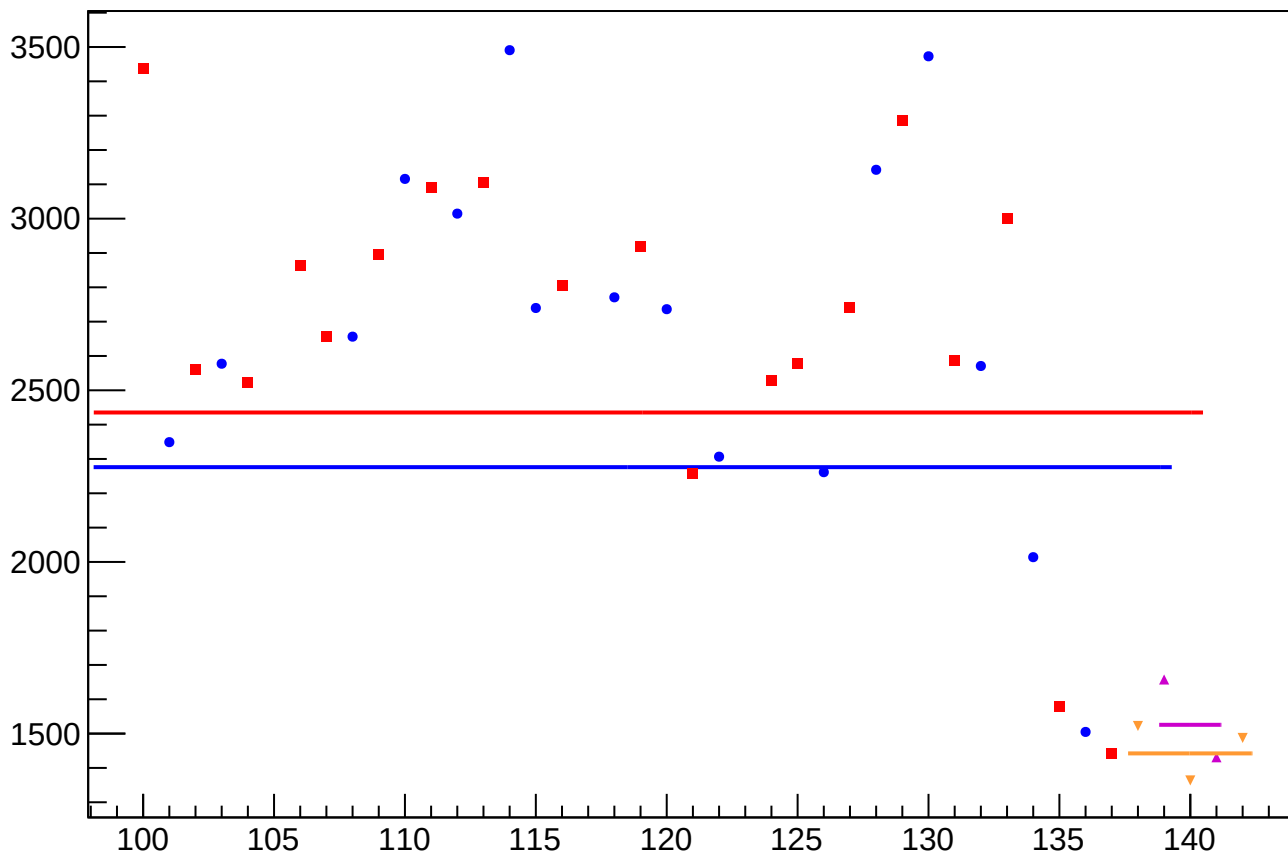
Right: -787.528 $\pm$ 632.913 χ^2 /NDF: 34.7/34

In: -1096.783 $\pm$ 700.217 χ^2 /NDF: 19.2/17

Out: 351.847 $\pm$ 677.624 χ^2 /NDF: 21.9/21

All: -348.720 $\pm$ 486.944 χ^2 /NDF: 43.3/39

asym_sam_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2276.132 $\pm$ 0.620 χ^2 /NDF: 926973.2/15

Left Out: 1442.309 $\pm$ 0.713 χ^2 /NDF: 10651.9/2

Right Out: 2435.351 $\pm$ 0.647 χ^2 /NDF: 791509.5/18

Left In: 1525.592 $\pm$ 0.823 χ^2 /NDF: 18428.8/1

Left: 1478.033 $\pm$ 0.539 χ^2 /NDF: 34928.6/4

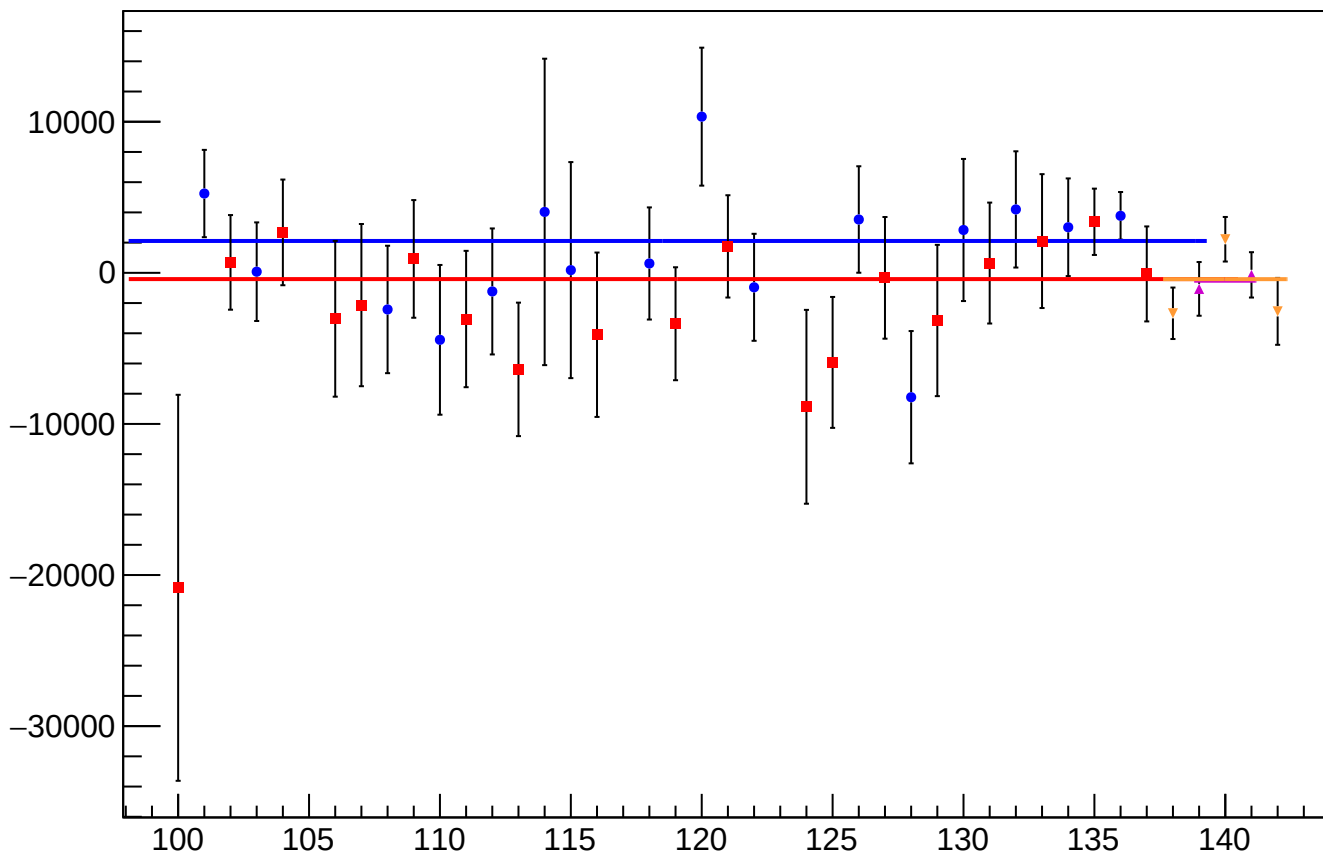
Right: 2352.352 $\pm$ 0.448 χ^2 /NDF: 1750068.0/34

In: 2004.474 $\pm$ 0.495 χ^2 /NDF: 1476059.6/17

Out: 1987.229 $\pm$ 0.479 χ^2 /NDF: 1865769.6/21

All: 1995.569 $\pm$ 0.344 χ^2 /NDF: 3342455.7/39

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2109.537 $\pm$ 863.291 χ^2 /NDF: 16.6/15

Left Out: -418.147 $\pm$ 995.822 χ^2 /NDF:5.9/2

Right Out: -414.095 $\pm$ 904.414 χ^2 /NDF: 14.7/18

Left In: -520.206 $\pm$ 1146.641 χ^2 /NDF:0.2/1

Left: -462.027 $\pm$ 751.861 χ^2 /NDF: 6.1/4

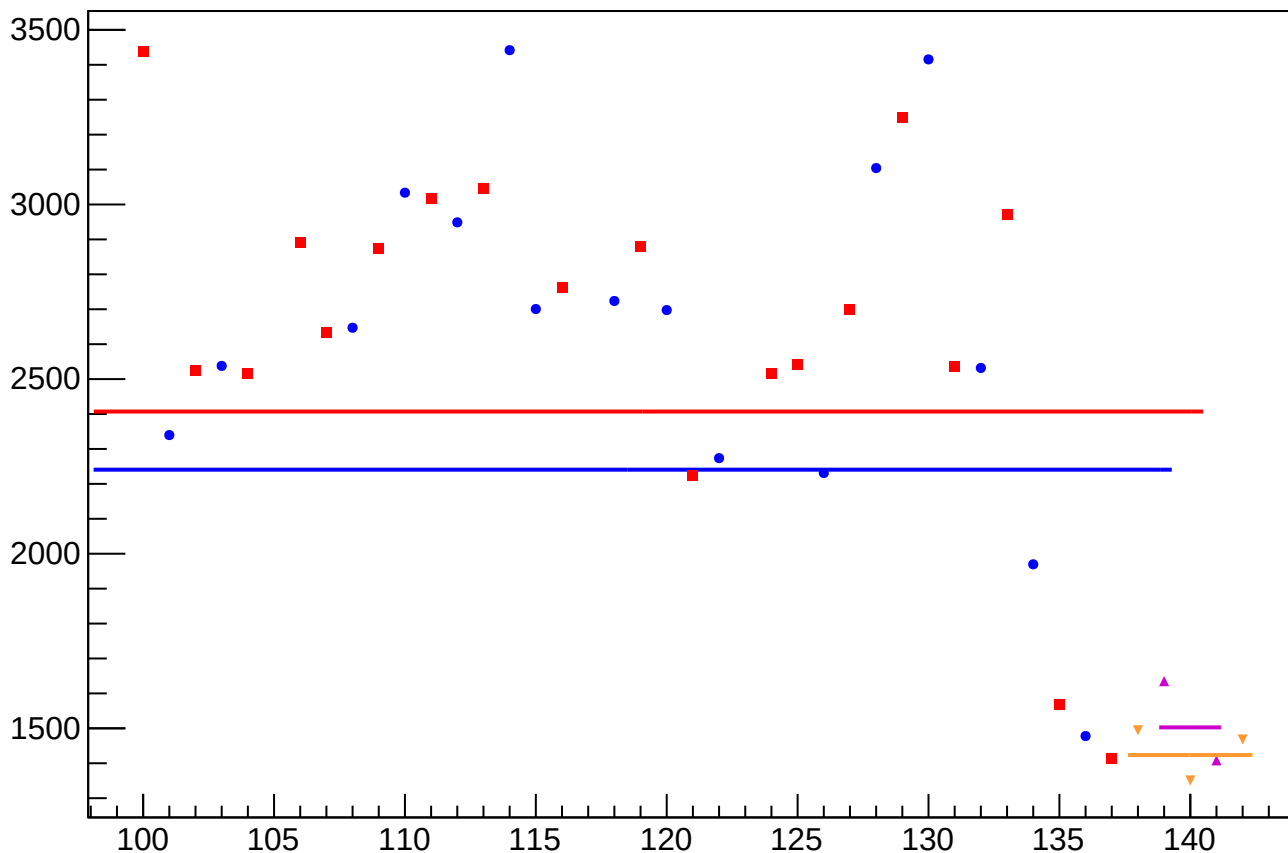
Right: 906.398 $\pm$ 624.471 χ^2 /NDF: 35.4/34

In: 1158.169 $\pm$ 689.676 χ^2 /NDF:20.1/17

Out: -415.926 $\pm$ 669.506 χ^2 /NDF:20.5/21

All: 347.767 $\pm$ 480.385 χ^2 /NDF: 43.4/39

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2240.626+/-0.610 χ^2/NDF : 933590.8/15

Left Out: 1423.597+/-0.704 χ^2/NDF : 9127.0/2

Right Out: 2407.124+/-0.640 χ^2/NDF : 788976.1/18

Left In: 1502.719+/-0.811 χ^2/NDF : 19000.6/1

Left: 1457.615+/-0.532 χ^2/NDF : 33556.1/4

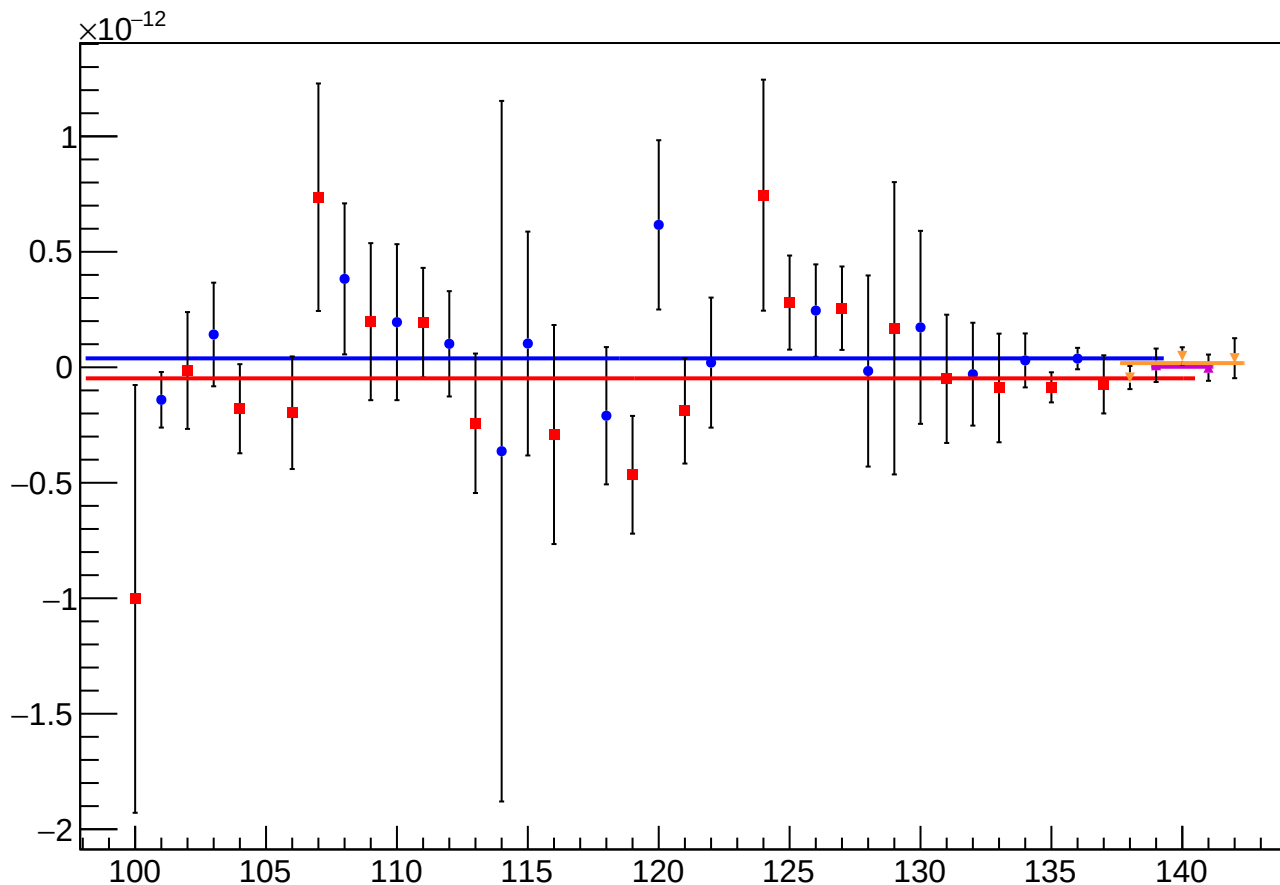
Right: 2320.004+/-0.442 χ^2/NDF : 1758033.9/34

In: 1973.672+/-0.488 χ^2/NDF : 1481225.1/17

Out: 1962.562+/-0.473 χ^2/NDF : 1867192.6/21

All: 1967.952+/-0.340 χ^2/NDF : 3348684.8/39

asym_sam_26_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 8.4/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:2.3/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 18.2/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/1

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 2.4/4

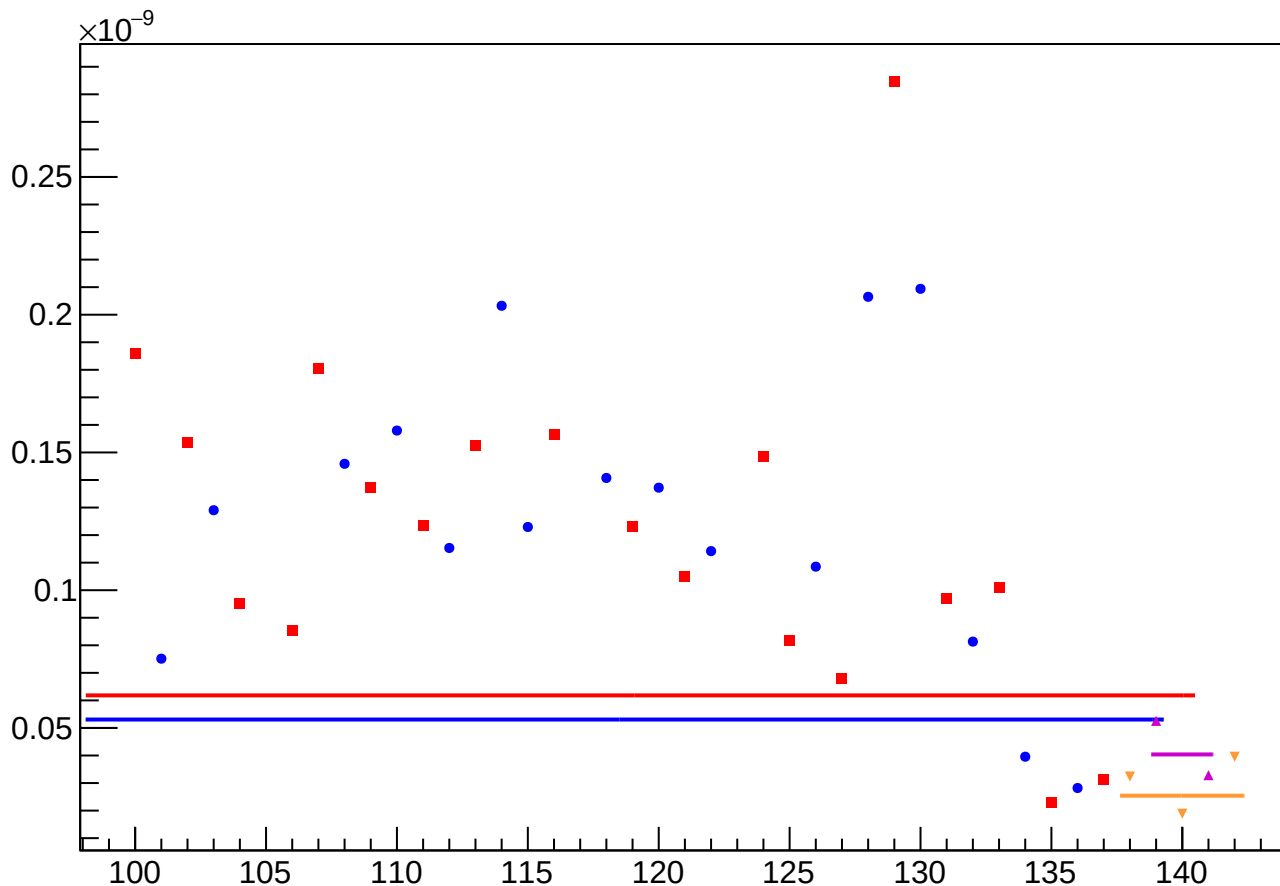
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 29.0/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:8.8/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:22.2/21

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 31.5/39

asym_sam_26_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 2576481.9/15

Left Out: 0.000+/-0.000

χ^2/NDF :153039.5/2

Right Out: 0.000+/-0.000

χ^2/NDF : 2416437.9/18

Left In: 0.000+/-0.000

χ^2/NDF :91801.2/1

Left: 0.000+/-0.000

χ^2/NDF : 404977.6/4

Right: 0.000+/-0.000

χ^2/NDF : 5040906.1/34

In: 0.000+/-0.000

χ^2/NDF :2765059.9/17

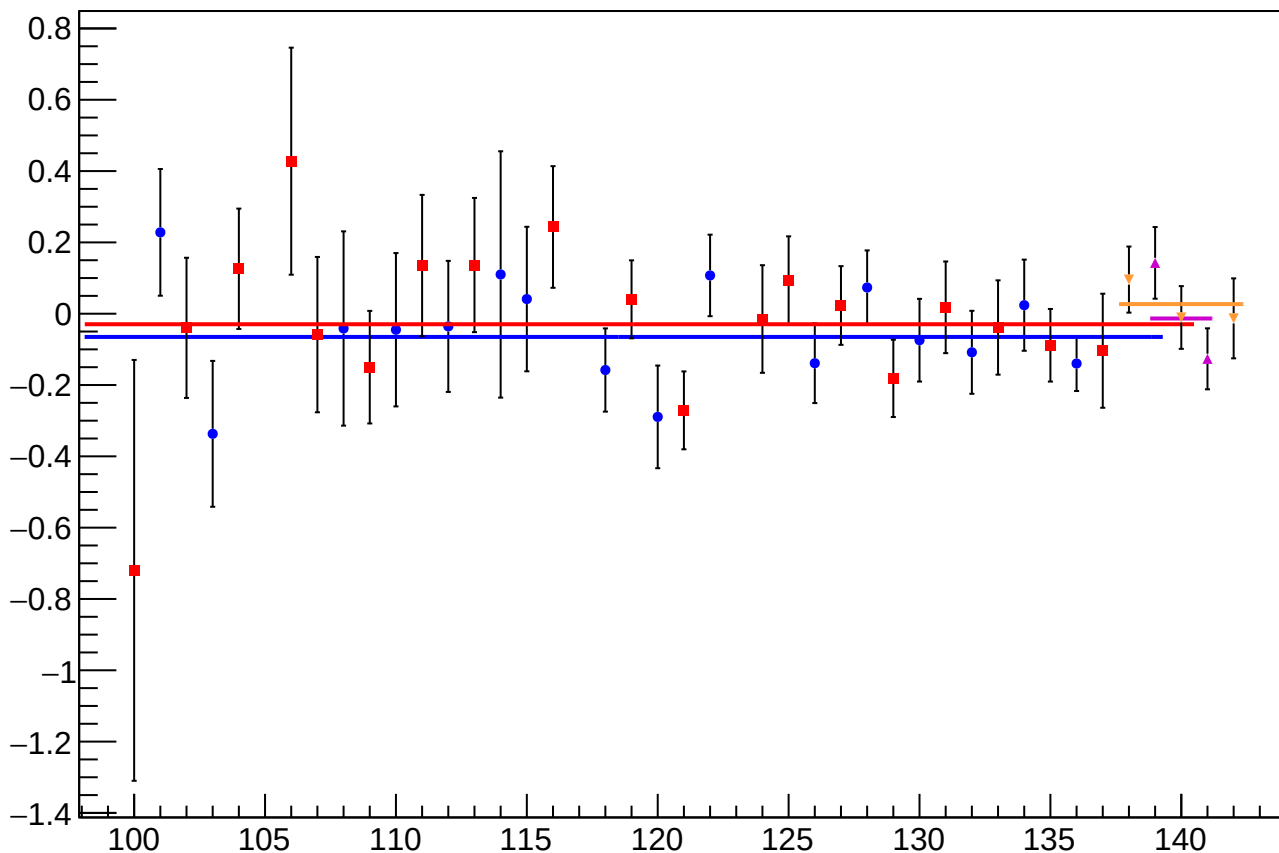
Out: 0.000+/-0.000

χ^2/NDF :3558131.4/21

All: 0.000+/-0.000

χ^2/NDF : 6525014.3/39

asym_sam_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.065 ± 0.033 χ^2/NDF : 14.2/15

Left Out: 0.027 ± 0.055 χ^2/NDF : 0.9/2

Right Out: -0.030 ± 0.033 χ^2/NDF : 18.1/18

Left In: -0.013 ± 0.065 χ^2/NDF : 4.2/1

Left: 0.010 ± 0.042 χ^2/NDF : 5.2/4

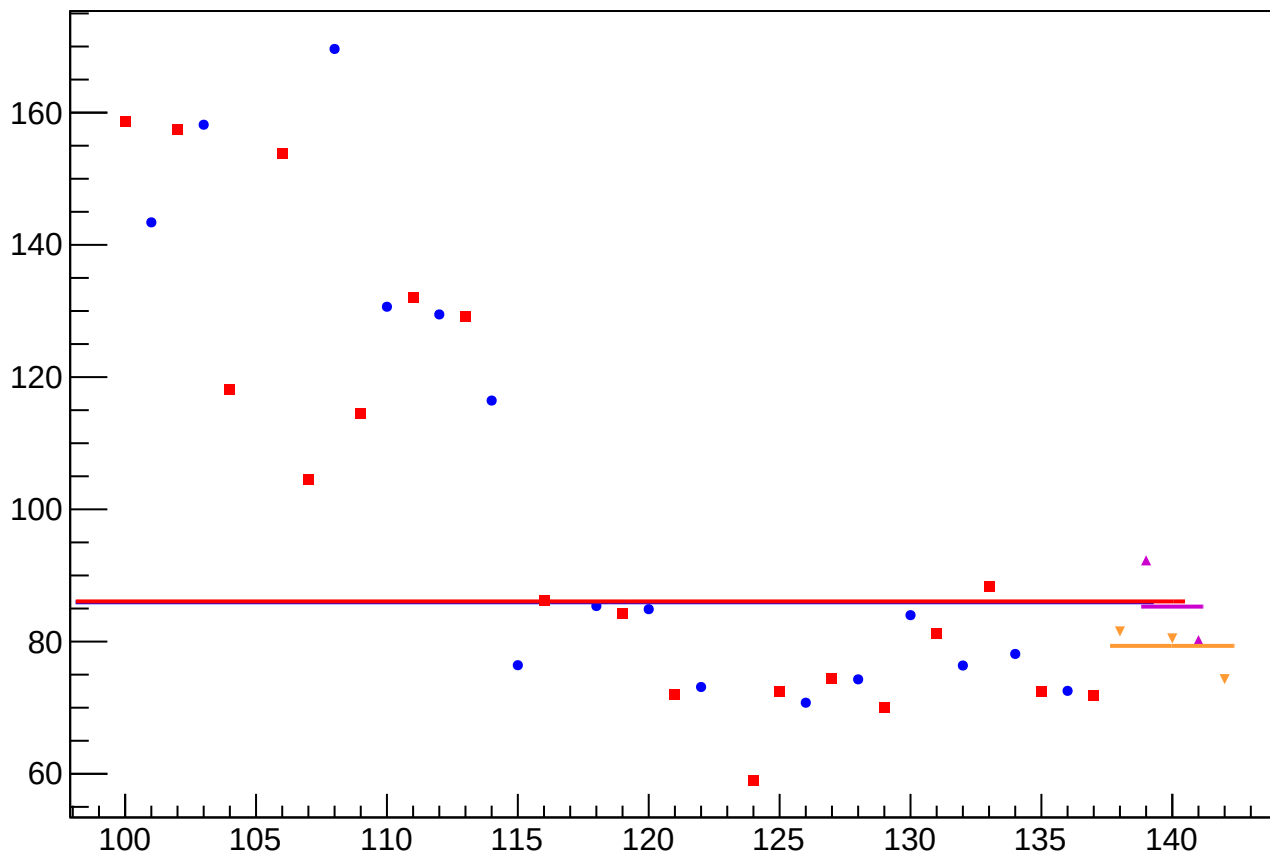
Right: -0.047 ± 0.023 χ^2/NDF : 32.8/34

In: -0.054 ± 0.030 χ^2/NDF : 18.8/17

Out: -0.015 ± 0.028 χ^2/NDF : 19.7/21

All: -0.034 ± 0.020 χ^2/NDF : 39.5/39

asym_sam_26_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 85.946 $\pm$ 0.024 χ^2 /NDF: 1035004.5/15

Left Out: 79.351 $\pm$ 0.039 χ^2 /NDF:5472.0/2

Right Out: 86.073 $\pm$ 0.023 χ^2 /NDF: 991371.4/18

Left In: 85.290 $\pm$ 0.046 χ^2 /NDF:16726.1/1

Left: 81.847 $\pm$ 0.030 χ^2 /NDF: 31835.9/4

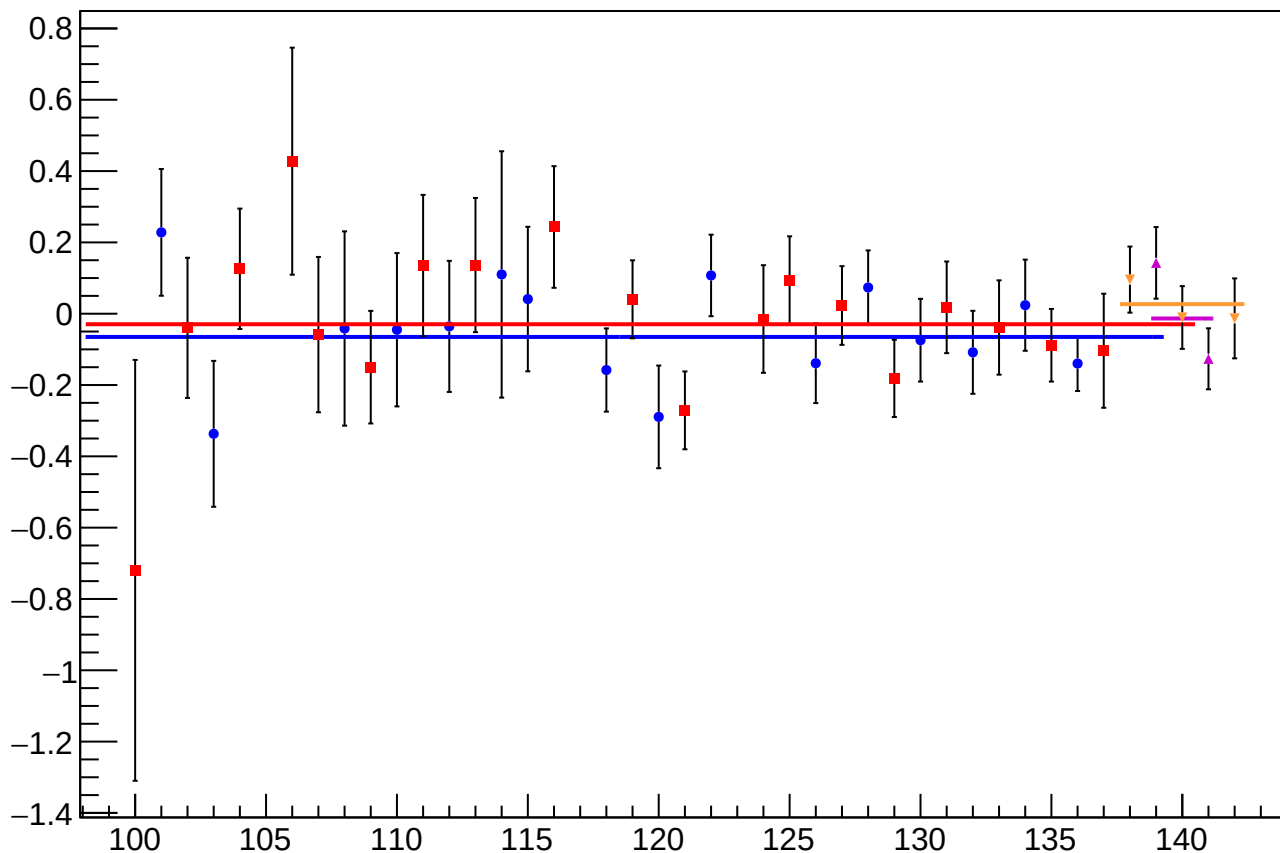
Right: 86.010 $\pm$ 0.017 χ^2 /NDF: 2026390.6/34

In: 85.810 $\pm$ 0.021 χ^2 /NDF:1051891.3/17

Out: 84.318 $\pm$ 0.020 χ^2 /NDF:1018552.2/21

All: 85.030 $\pm$ 0.014 χ^2 /NDF: 2073087.8/39

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.065 ± 0.033 χ^2/NDF : 14.2/15

Left Out: 0.027 ± 0.055 χ^2/NDF : 0.9/2

Right Out: -0.030 ± 0.033 χ^2/NDF : 18.1/18

Left In: -0.013 ± 0.065 χ^2/NDF : 4.2/1

Left: 0.010 ± 0.042 χ^2/NDF : 5.2/4

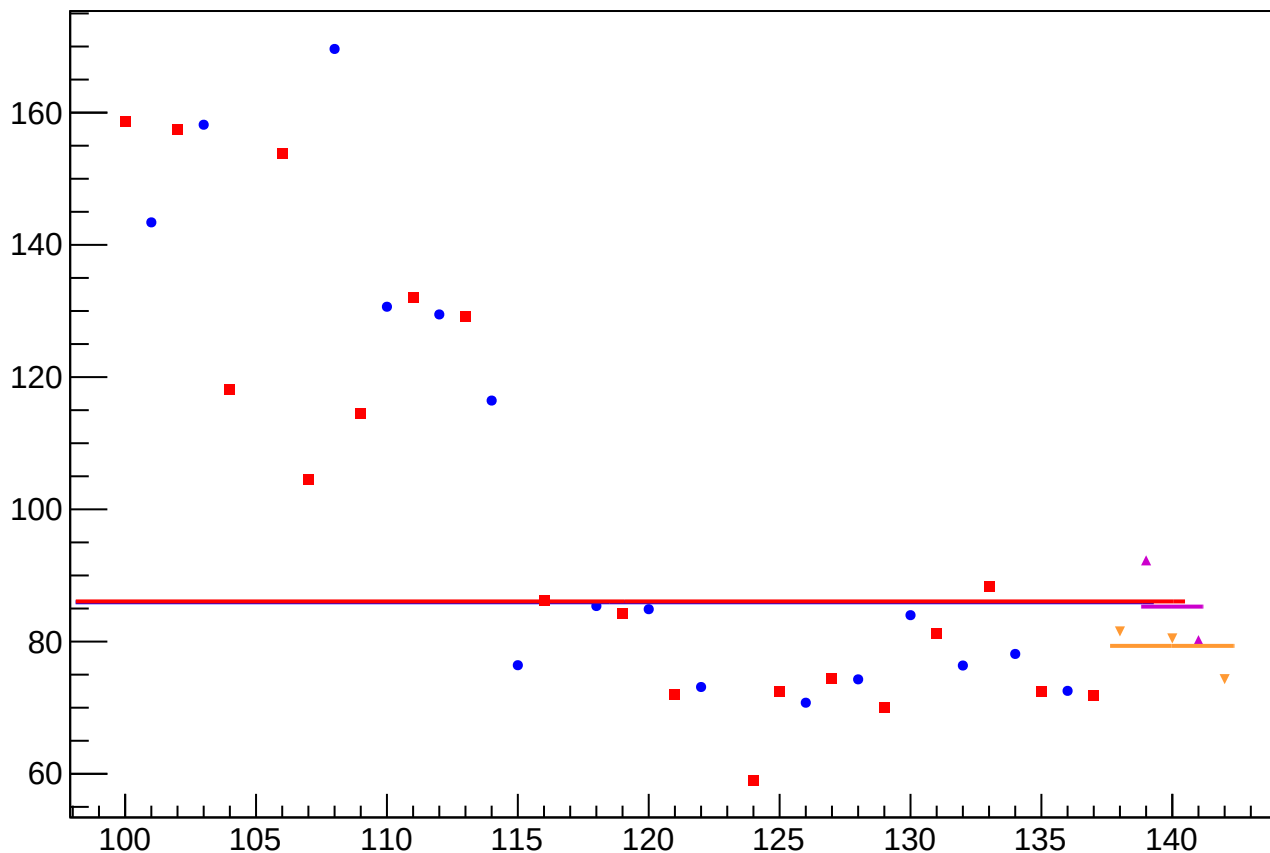
Right: -0.047 ± 0.023 χ^2/NDF : 32.8/34

In: -0.054 ± 0.030 χ^2/NDF : 18.8/17

Out: -0.015 ± 0.028 χ^2/NDF : 19.7/21

All: -0.034 ± 0.020 χ^2/NDF : 39.5/39

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 85.946 $\pm$ 0.024 χ^2 /NDF: 1035004.5/15

Left Out: 79.351 $\pm$ 0.039 χ^2 /NDF:5472.0/2

Right Out: 86.073 $\pm$ 0.023 χ^2 /NDF: 991371.4/18

Left In: 85.290 $\pm$ 0.046 χ^2 /NDF:16726.1/1

Left: 81.847 $\pm$ 0.030 χ^2 /NDF: 31835.9/4

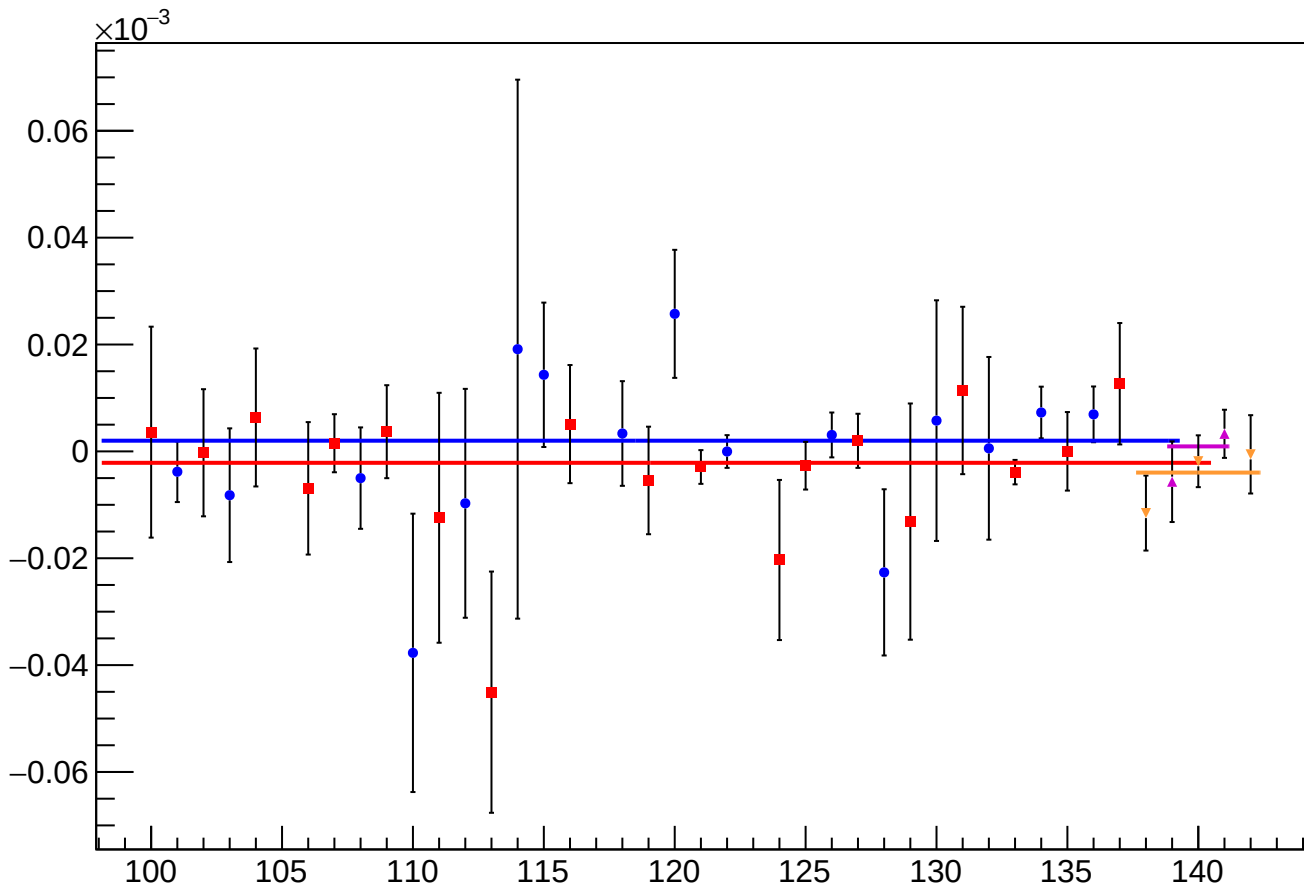
Right: 86.010 $\pm$ 0.017 χ^2 /NDF: 2026390.6/34

In: 85.810 $\pm$ 0.021 χ^2 /NDF:1051891.3/17

Out: 84.318 $\pm$ 0.020 χ^2 /NDF:1018552.2/21

All: 85.030 $\pm$ 0.014 χ^2 /NDF: 2073087.8/39

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.9/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:1.6/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 11.5/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:1.0/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 3.5/4

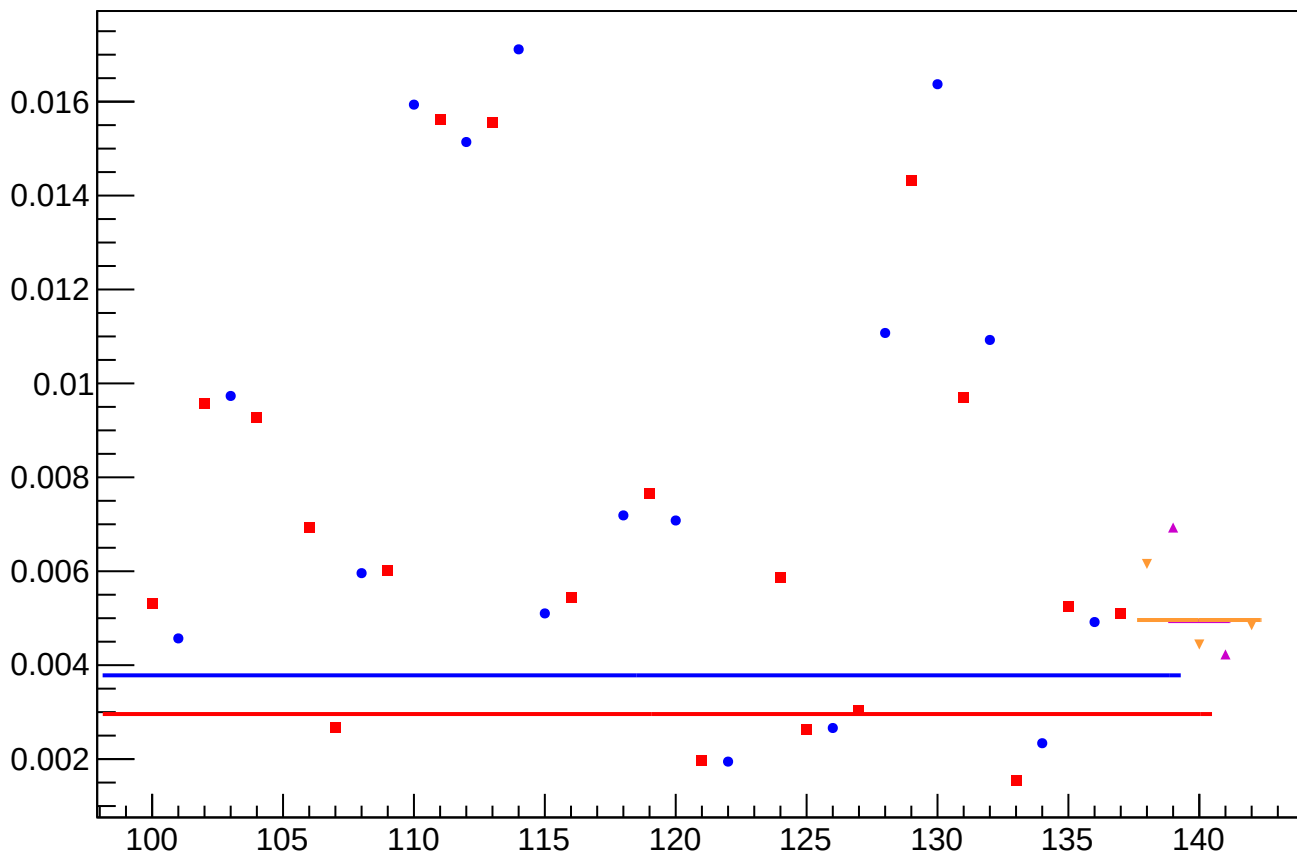
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 29.8/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:16.0/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:13.3/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 33.5/39

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000

χ^2/NDF : 4694299.9/15

Left Out: 0.005+/-0.000

χ^2/NDF :81410.3/2

Right Out: 0.003+/-0.000

χ^2/NDF : 5548113.4/18

Left In: 0.005+/-0.000

χ^2/NDF :189045.8/1

Left: 0.005+/-0.000

χ^2/NDF : 270494.5/4

Right: 0.003+/-0.000

χ^2/NDF : 10513157.6/34

In: 0.004+/-0.000

χ^2/NDF :5031549.7/17

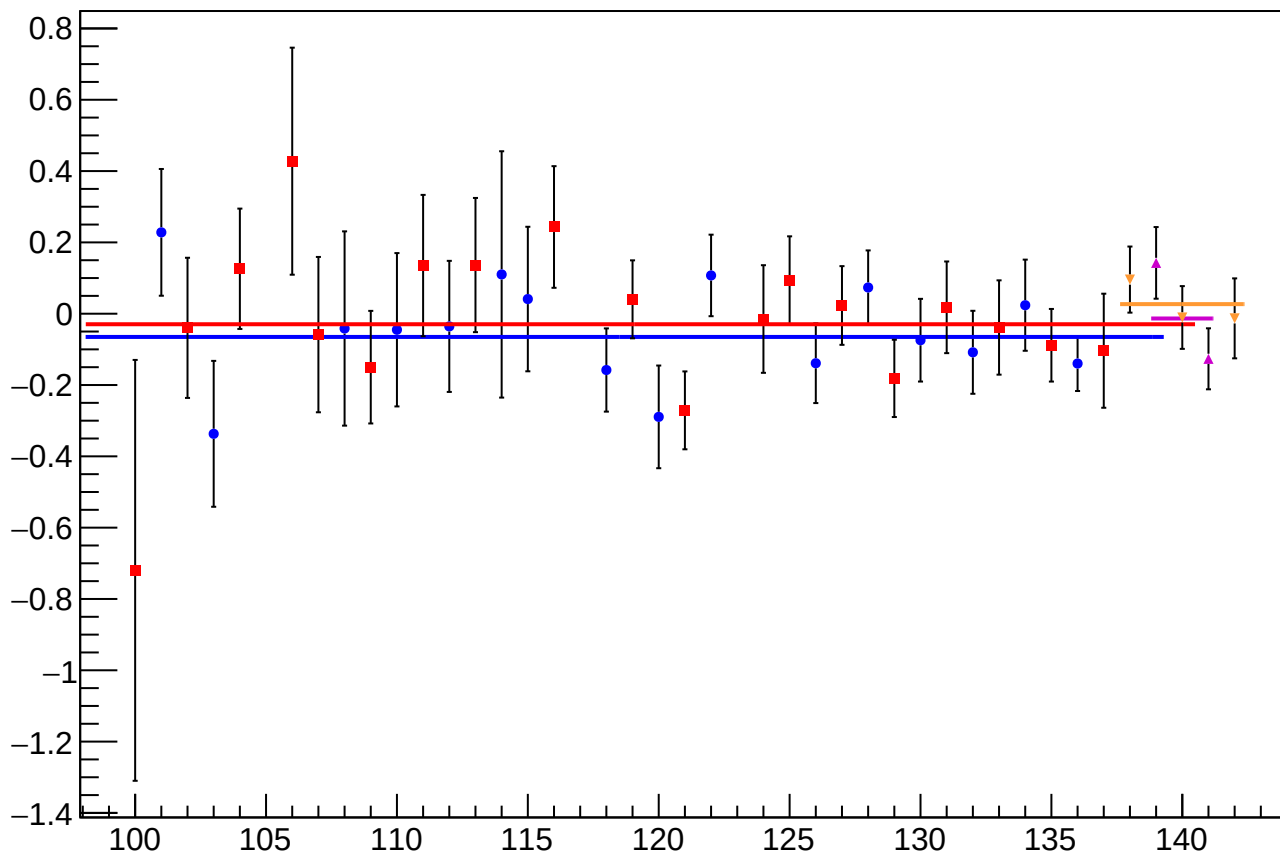
Out: 0.003+/-0.000

χ^2/NDF :6192217.1/21

All: 0.004+/-0.000

χ^2/NDF : 11485255.4/39

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.065 ± 0.033 χ^2/NDF : 14.2/15

Left Out: 0.027 ± 0.055 χ^2/NDF : 0.9/2

Right Out: -0.030 ± 0.033 χ^2/NDF : 18.1/18

Left In: -0.013 ± 0.065 χ^2/NDF : 4.2/1

Left: 0.010 ± 0.042 χ^2/NDF : 5.2/4

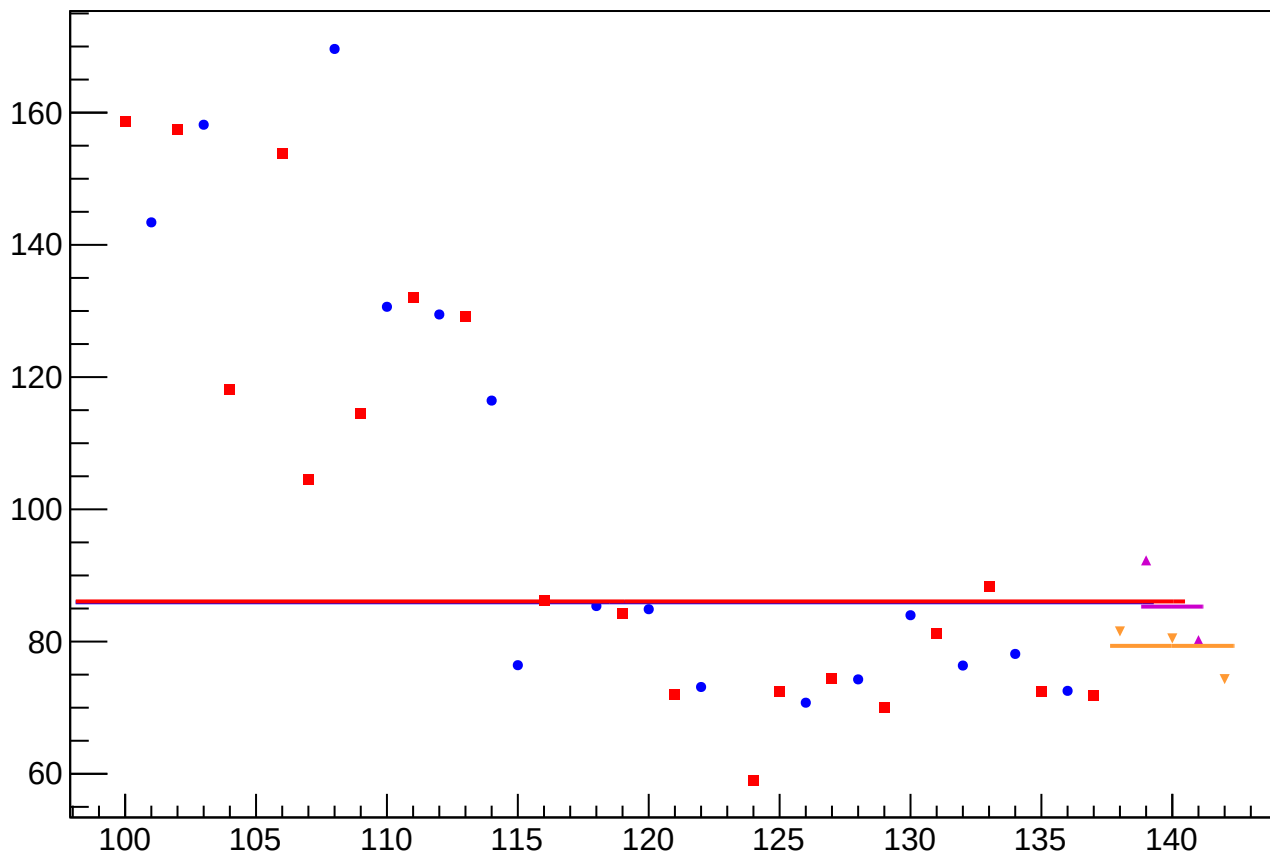
Right: -0.047 ± 0.023 χ^2/NDF : 32.8/34

In: -0.054 ± 0.030 χ^2/NDF : 18.8/17

Out: -0.015 ± 0.028 χ^2/NDF : 19.7/21

All: -0.034 ± 0.020 χ^2/NDF : 39.5/39

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 85.943+/-0.024 χ^2/NDF : 1034986.7/15

Left Out: 79.350+/-0.039 χ^2/NDF : 5469.9/2

Right Out: 86.070+/-0.023 χ^2/NDF : 991365.2/18

Left In: 85.289+/-0.046 χ^2/NDF : 16724.0/1

Left: 81.846+/-0.030 χ^2/NDF : 31830.9/4

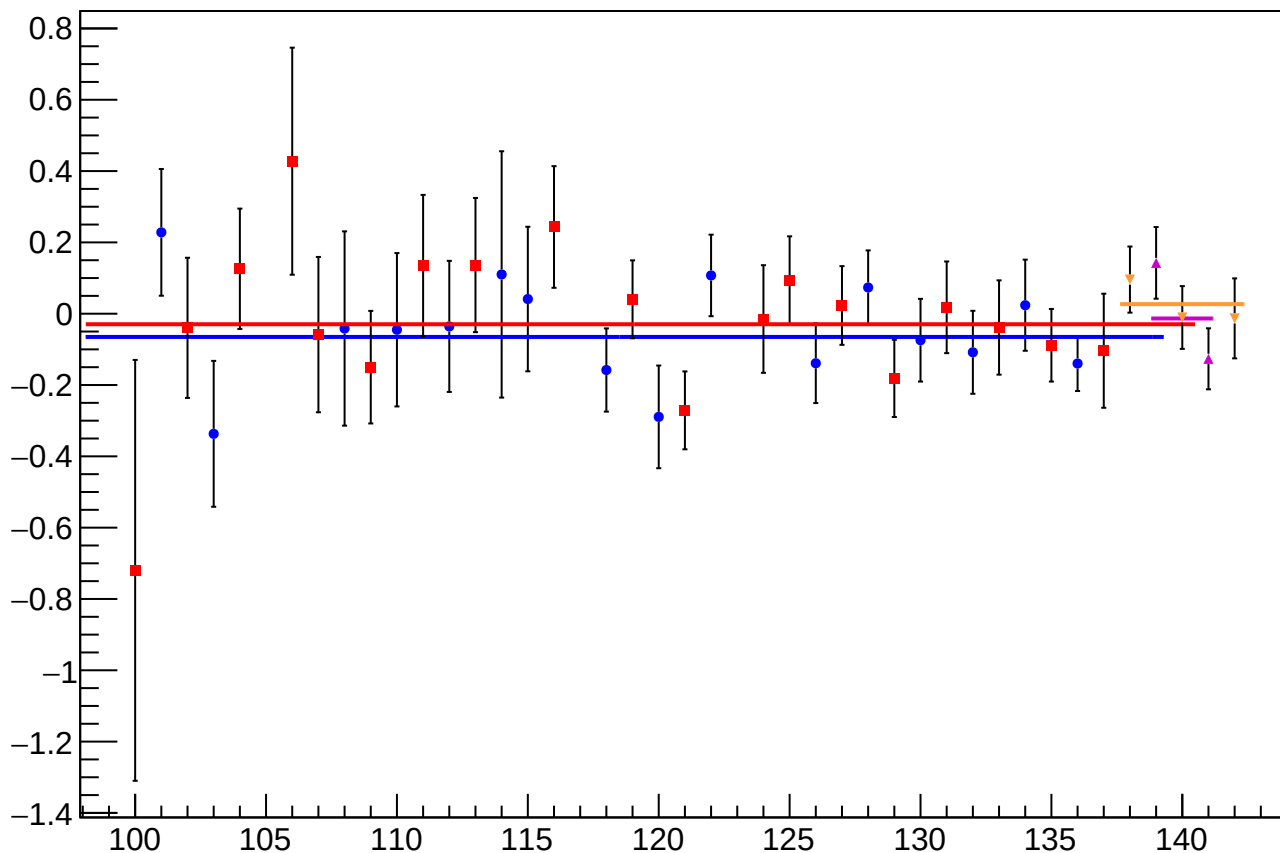
Right: 86.007+/-0.017 χ^2/NDF : 2026366.7/34

In: 85.807+/-0.021 χ^2/NDF : 1051870.4/17

Out: 84.317+/-0.020 χ^2/NDF : 1018532.8/21

All: 85.028+/-0.014 χ^2/NDF : 2073046.0/39

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.065 ± 0.033 χ^2/NDF : 14.2/15

Left Out: 0.027 ± 0.055 χ^2/NDF : 0.9/2

Right Out: -0.030 ± 0.033 χ^2/NDF : 18.1/18

Left In: -0.013 ± 0.065 χ^2/NDF : 4.2/1

Left: 0.010 ± 0.042 χ^2/NDF : 5.2/4

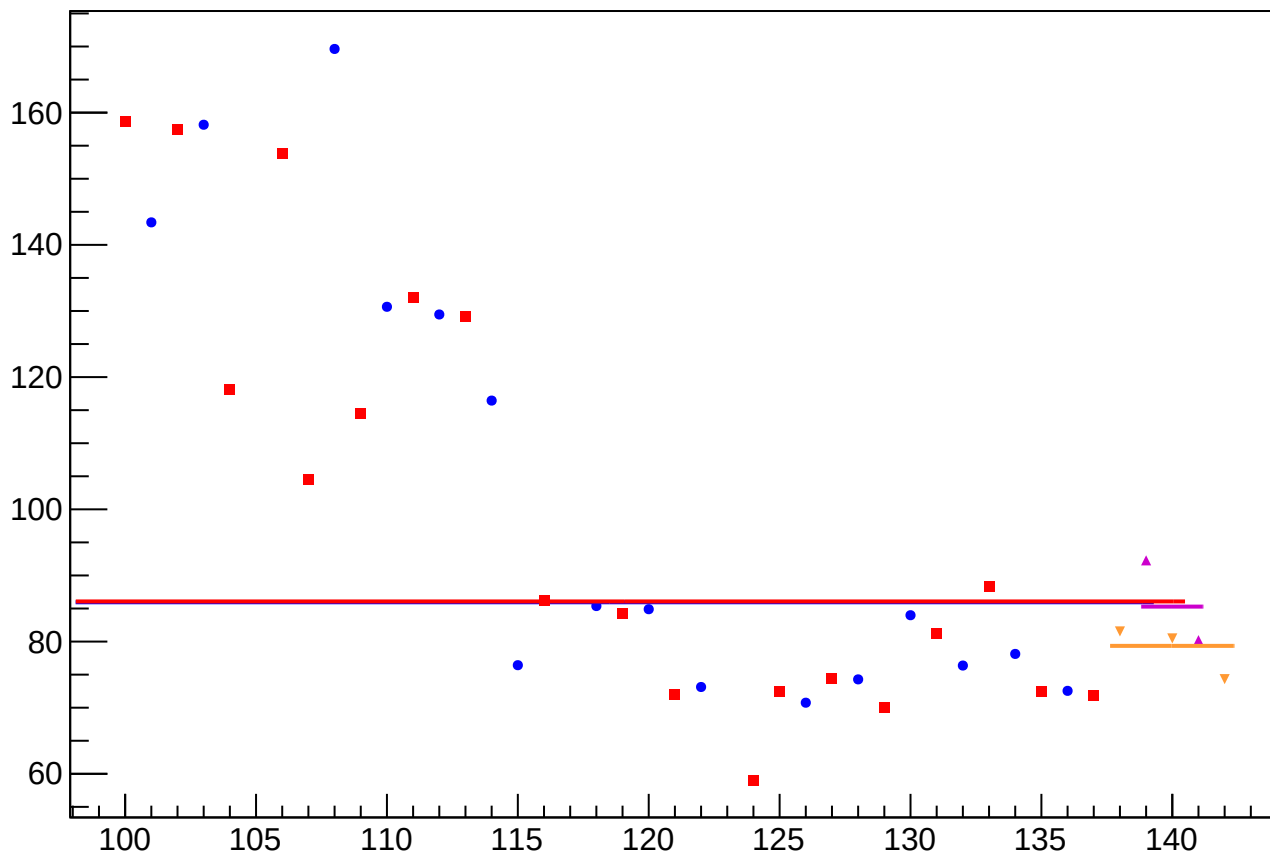
Right: -0.047 ± 0.023 χ^2/NDF : 32.8/34

In: -0.054 ± 0.030 χ^2/NDF : 18.8/17

Out: -0.015 ± 0.028 χ^2/NDF : 19.7/21

All: -0.034 ± 0.020 χ^2/NDF : 39.5/39

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 85.943 $\pm$ 0.024 χ^2 /NDF: 1034986.7/15

Left Out: 79.350 $\pm$ 0.039 χ^2 /NDF:5469.9/2

Right Out: 86.070 $\pm$ 0.023 χ^2 /NDF: 991365.2/18

Left In: 85.289 $\pm$ 0.046 χ^2 /NDF:16724.0/1

Left: 81.846 $\pm$ 0.030 χ^2 /NDF: 31830.9/4

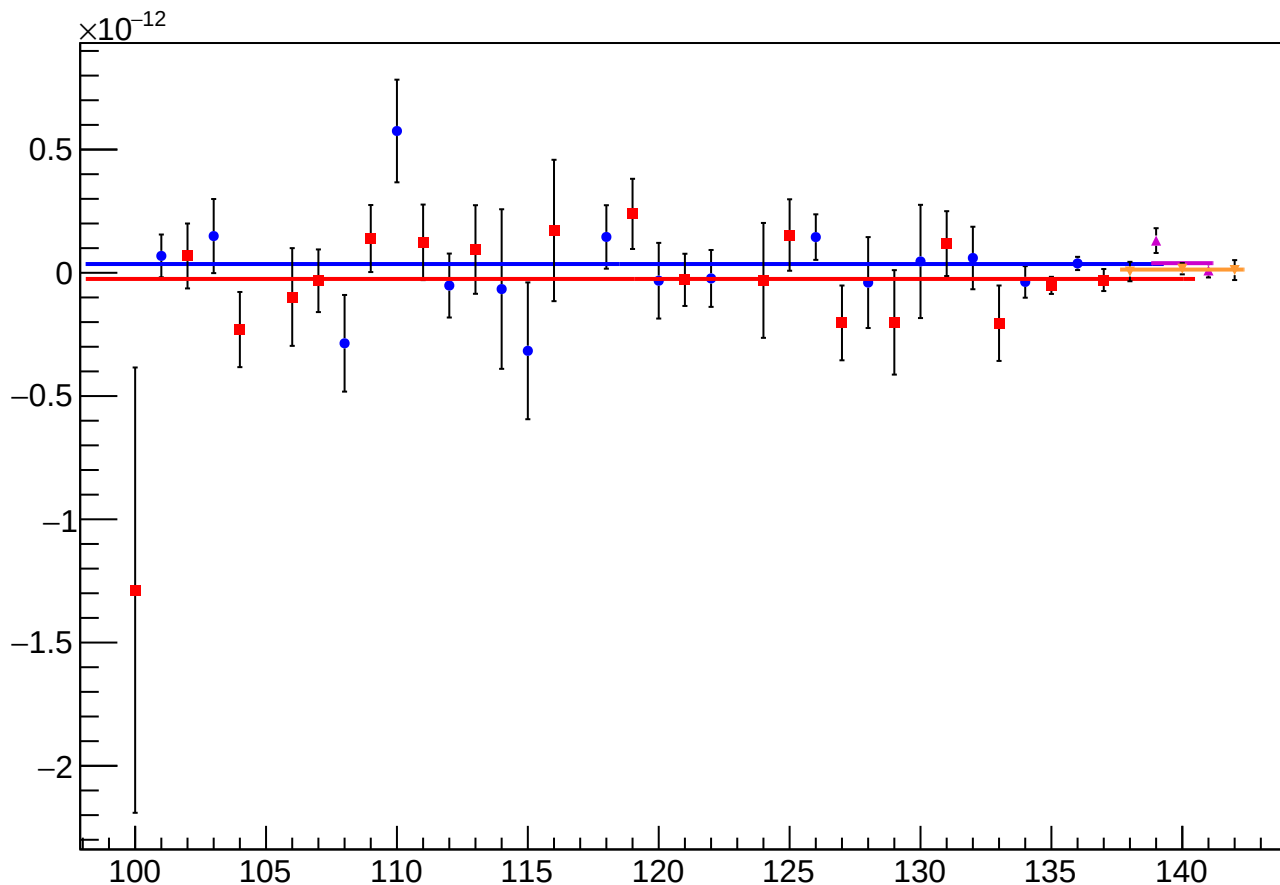
Right: 86.007 $\pm$ 0.017 χ^2 /NDF: 2026366.7/34

In: 85.807 $\pm$ 0.021 χ^2 /NDF:1051870.4/17

Out: 84.317 $\pm$ 0.020 χ^2 /NDF:1018532.8/21

All: 85.028 $\pm$ 0.014 χ^2 /NDF: 2073046.0/39

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 16.4/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.1/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 17.9/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:4.4/1

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 5.2/4

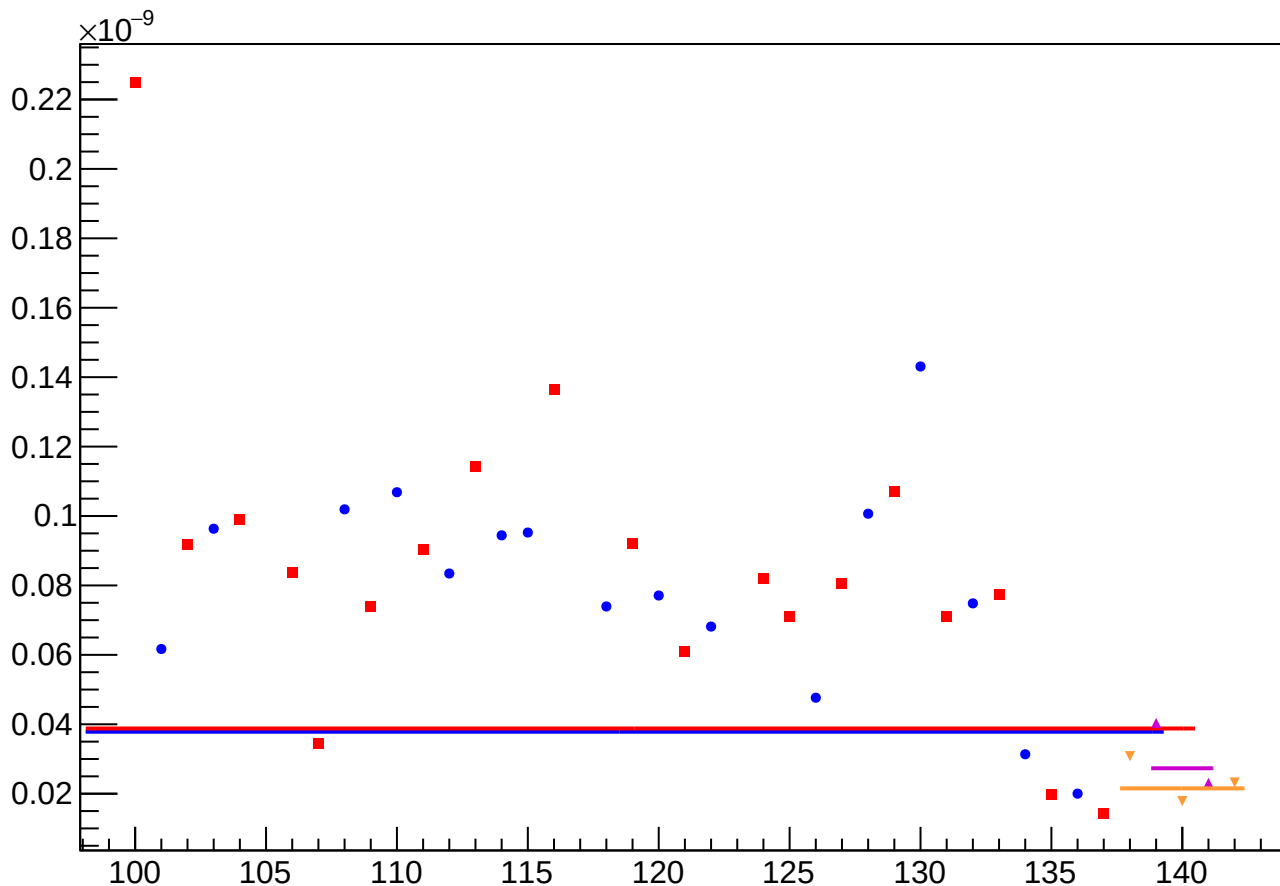
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 38.2/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:20.8/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:19.7/21

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 43.9/39

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3456922.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :166469.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4121603.1/18

Left In: 0.000+/-0.000 χ^2/NDF :178533.4/1

Left: 0.000+/-0.000 χ^2/NDF : 417249.7/4

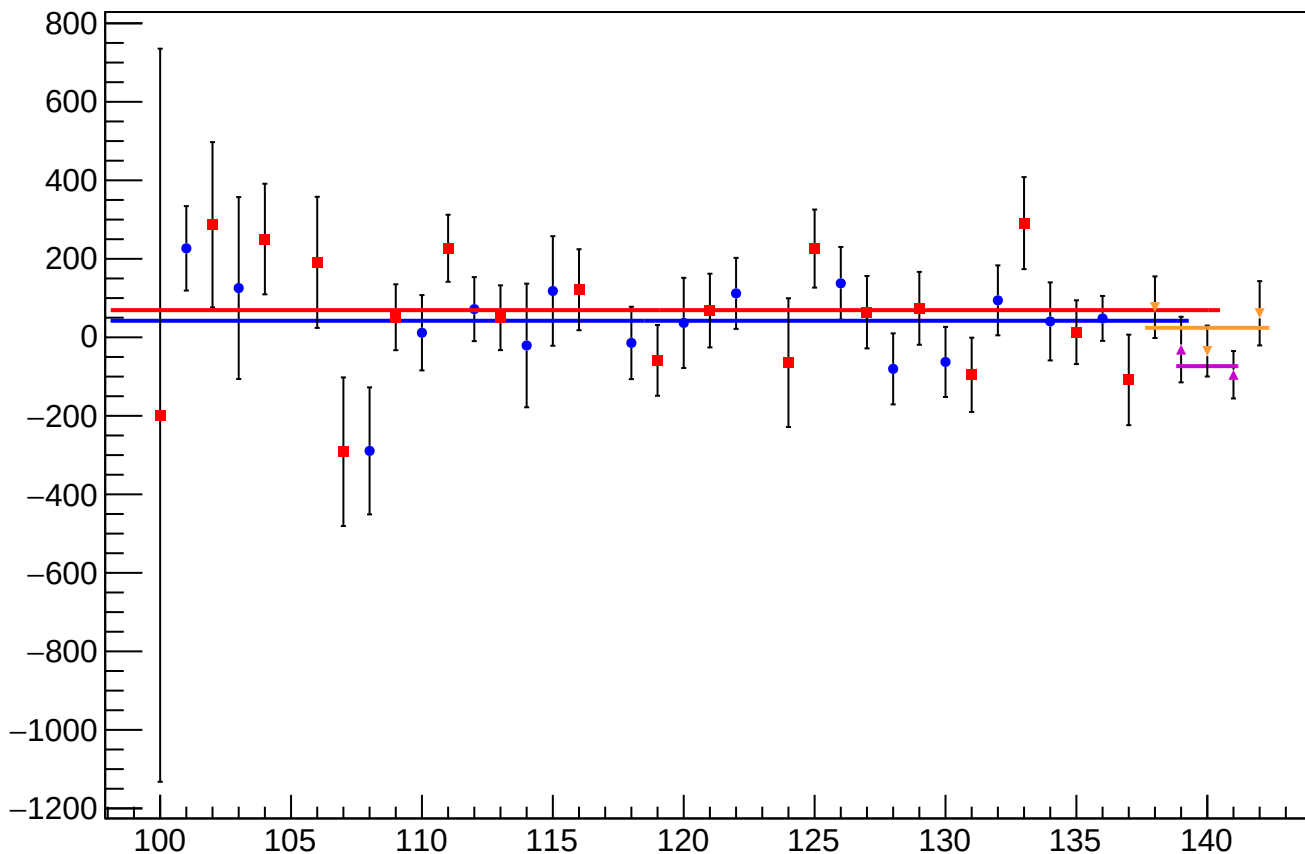
Right: 0.000+/-0.000 χ^2/NDF : 7580417.6/34

In: 0.000+/-0.000 χ^2/NDF :3848450.3/17

Out: 0.000+/-0.000 χ^2/NDF :5026587.0/21

All: 0.000+/-0.000 χ^2/NDF : 9001180.6/39

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 42.220 $\pm$ 24.207 χ^2 /NDF: 13.6/15

Left Out: 24.241 $\pm$ 42.676 χ^2 /NDF:1.5/2

Right Out: 69.249 $\pm$ 24.418 χ^2 /NDF: 25.4/18

Left In: -73.343 $\pm$ 48.919 χ^2 /NDF:0.4/1

Left: -17.930 $\pm$ 32.159 χ^2 /NDF: 4.1/4

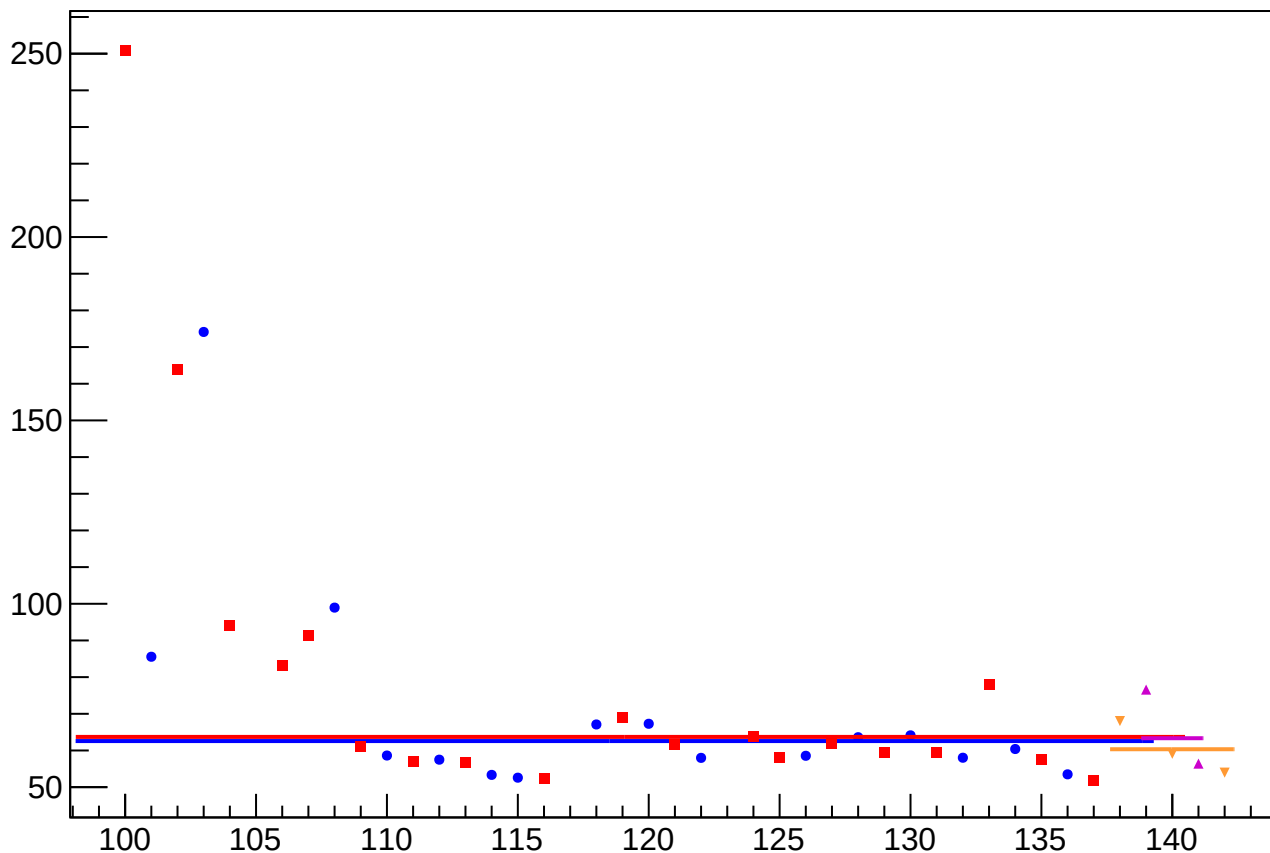
Right: 55.617 $\pm$ 17.191 χ^2 /NDF: 39.5/34

In: 19.489 $\pm$ 21.696 χ^2 /NDF:18.4/17

Out: 58.148 $\pm$ 21.194 χ^2 /NDF:27.7/21

All: 39.271 $\pm$ 15.161 χ^2 /NDF: 47.7/39

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 62.566 $\pm$ 0.017 χ^2 /NDF: 758603.5/15

Left Out: 60.338 $\pm$ 0.030 χ^2 /NDF:32044.7/2

Right Out: 63.699 $\pm$ 0.017 χ^2 /NDF: 834180.2/18

Left In: 63.342 $\pm$ 0.035 χ^2 /NDF:76729.8/1

Left: 61.637 $\pm$ 0.023 χ^2 /NDF: 113057.5/4

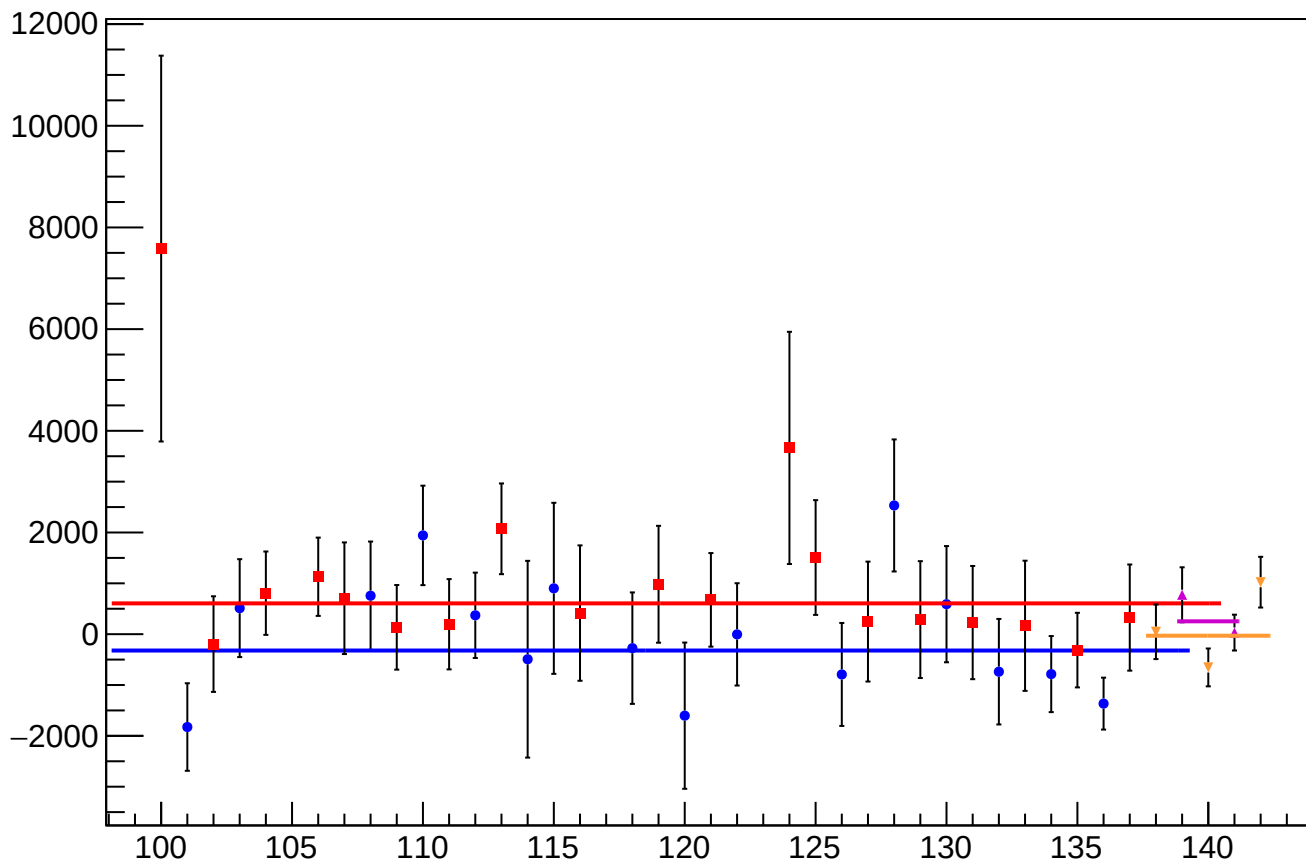
Right: 63.127 $\pm$ 0.012 χ^2 /NDF: 1594958.1/34

In: 62.718 $\pm$ 0.015 χ^2 /NDF:835738.5/17

Out: 62.870 $\pm$ 0.015 χ^2 /NDF:875570.2/21

All: 62.796 $\pm$ 0.011 χ^2 /NDF: 1711358.9/39

asym_sam_37_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -321.663 $\pm$ 238.482 χ^2 /NDF: 22.7/15

Left Out: -30.311 $\pm$ 260.811 χ^2 /NDF: 7.3/2

Right Out: 605.859 $\pm$ 233.643 χ^2 /NDF: 12.5/18

Left In: 252.902 $\pm$ 295.314 χ^2 /NDF: 1.3/1

Left: 93.791 $\pm$ 195.487 χ^2 /NDF: 9.1/4

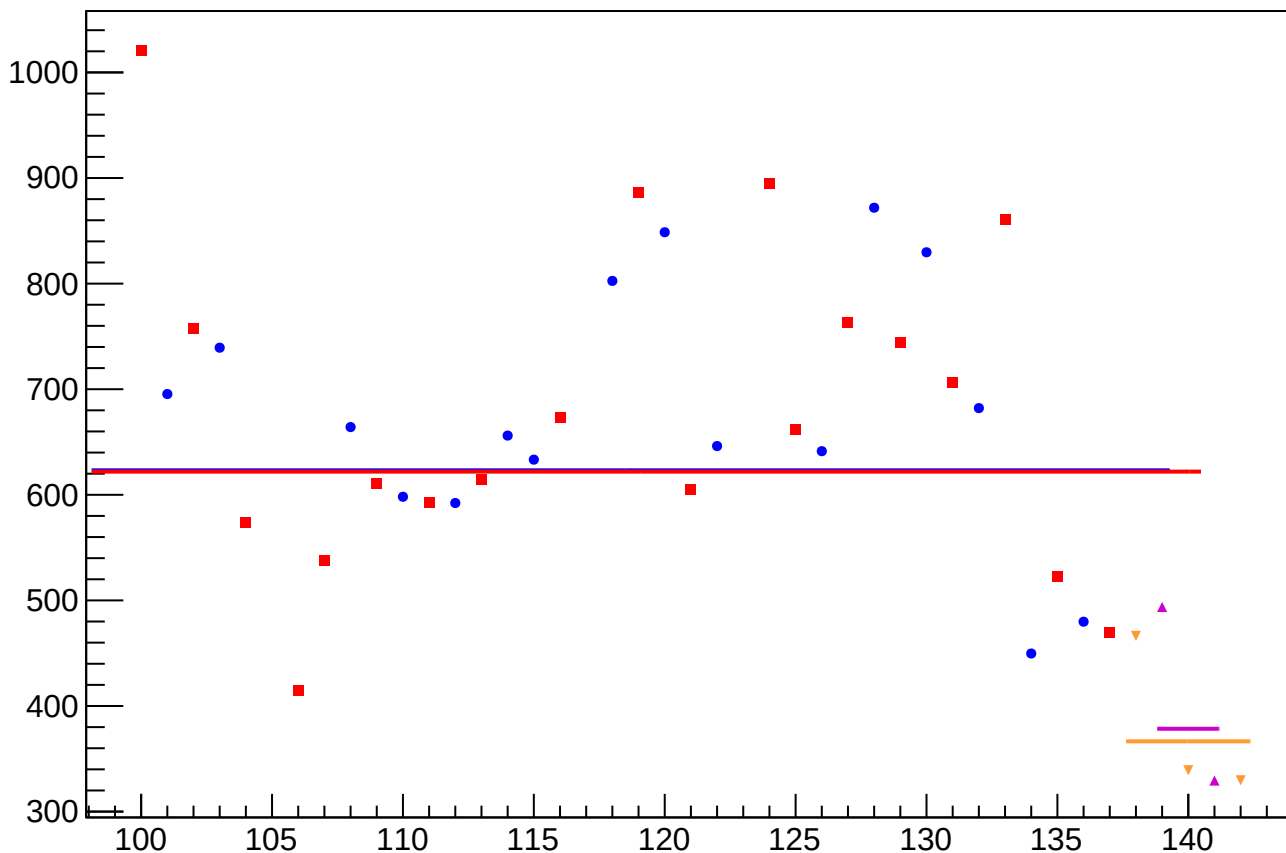
Right: 151.604 $\pm$ 166.895 χ^2 /NDF: 42.9/34

In: -94.867 $\pm$ 185.538 χ^2 /NDF: 26.3/17

Out: 322.623 $\pm$ 174.025 χ^2 /NDF: 23.1/21

All: 127.231 $\pm$ 126.929 χ^2 /NDF: 52.1/39

asym_sam_37_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 623.181+/-0.169 χ^2/NDF : 565524.7/15

Left Out: 366.526+/-0.184 χ^2/NDF : 90924.5/2

Right Out: 621.975+/-0.165 χ^2/NDF : 582591.9/18

Left In: 378.441+/-0.209 χ^2/NDF : 129658.8/1

Left: 371.747+/-0.138 χ^2/NDF : 222412.5/4

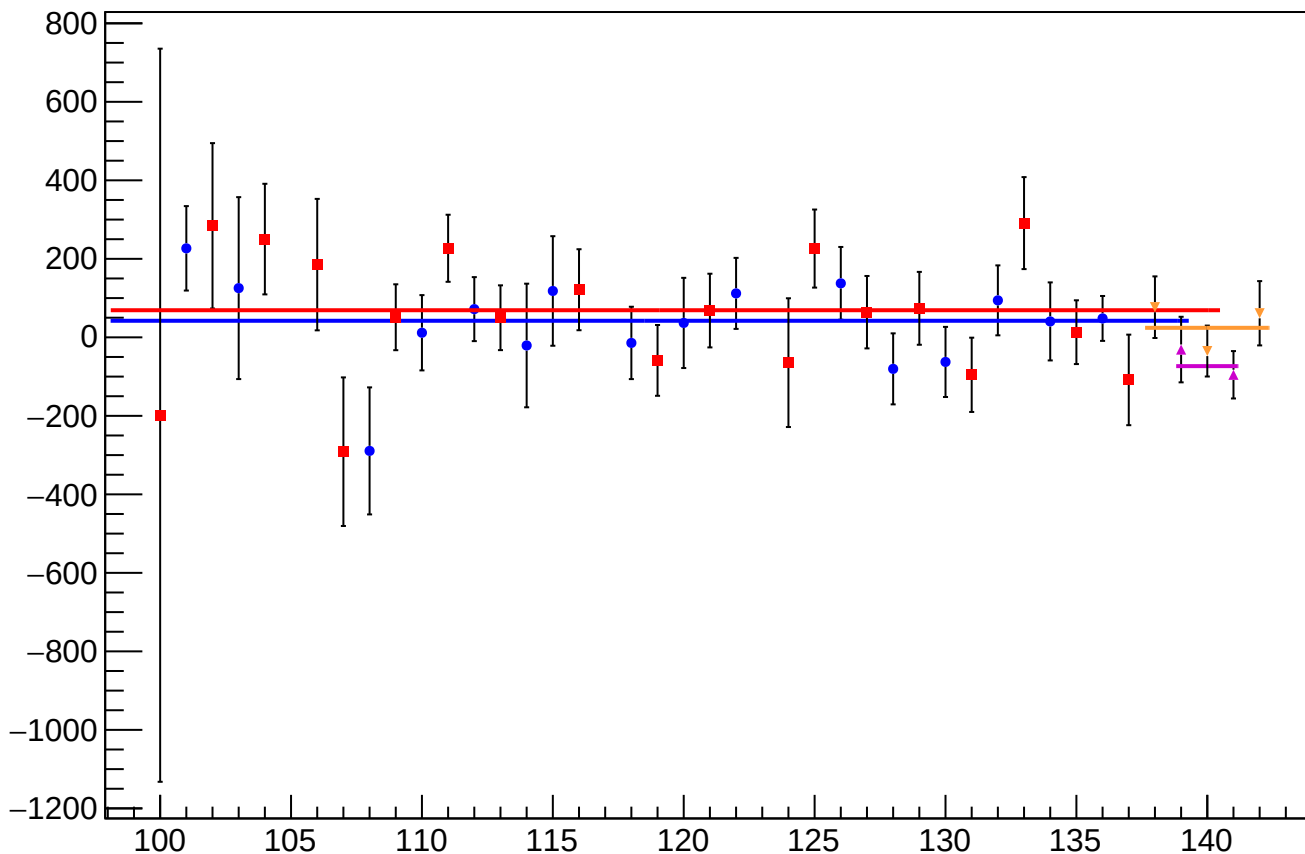
Right: 622.565+/-0.118 χ^2/NDF : 1148142.8/34

In: 526.576+/-0.131 χ^2/NDF : 1526607.7/17

Out: 508.243+/-0.123 χ^2/NDF : 1737924.5/21

All: 516.823+/-0.090 χ^2/NDF : 3274919.5/39

cor_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 42.213 $\pm$ 24.207 χ^2 /NDF: 13.6/15

Left Out: 24.253 $\pm$ 42.676 χ^2 /NDF:1.5/2

Right Out: 69.068 $\pm$ 24.420 χ^2 /NDF: 25.3/18

Left In: -73.344 $\pm$ 48.919 χ^2 /NDF:0.4/1

Left: -17.924 $\pm$ 32.159 χ^2 /NDF: 4.1/4

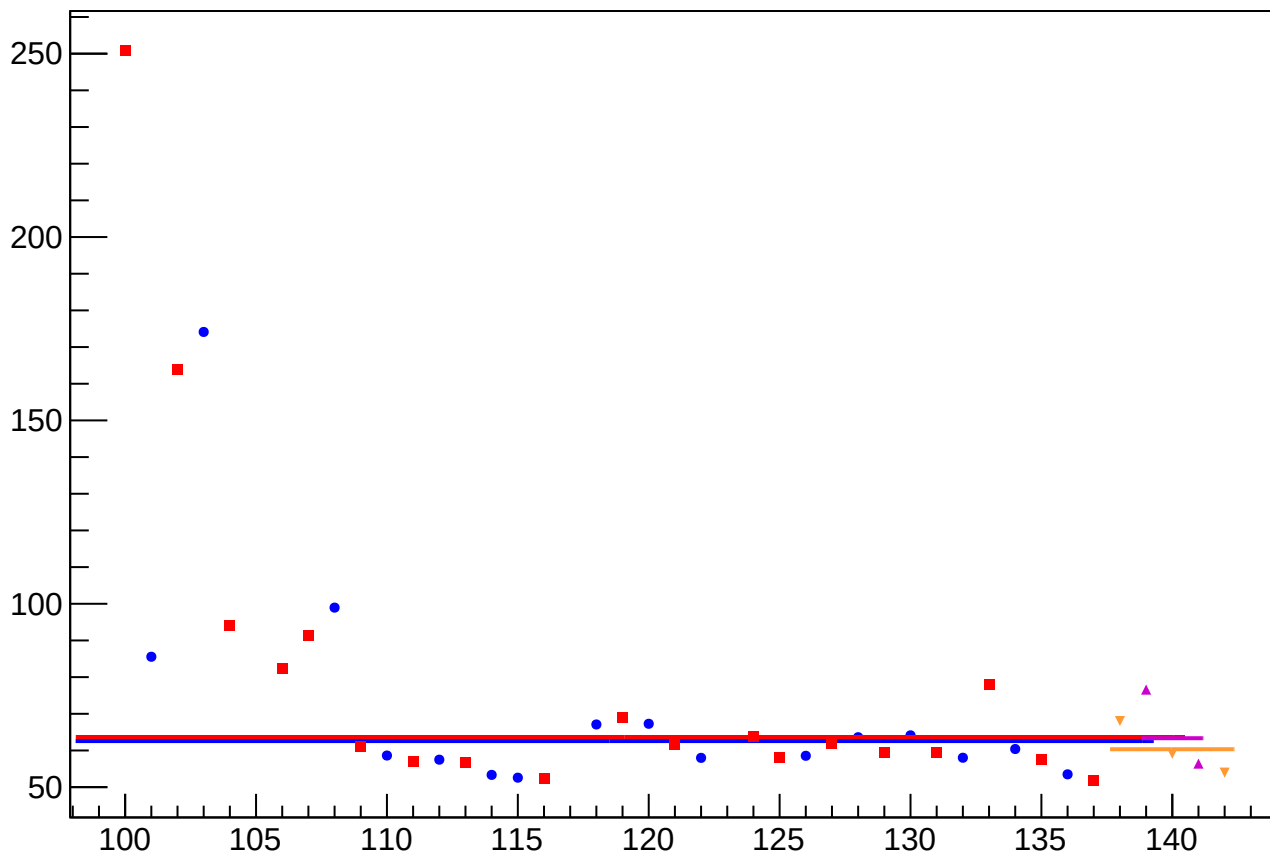
Right: 55.523 $\pm$ 17.192 χ^2 /NDF: 39.4/34

In: 19.484 $\pm$ 21.696 χ^2 /NDF:18.4/17

Out: 58.014 $\pm$ 21.195 χ^2 /NDF:27.6/21

All: 39.199 $\pm$ 15.161 χ^2 /NDF: 47.6/39

cor_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 62.566 $\pm$ 0.017 χ^2 /NDF: 758605.6/15

Left Out: 60.338 $\pm$ 0.030 χ^2 /NDF: 32044.7/2

Right Out: 63.675 $\pm$ 0.017 χ^2 /NDF: 831432.5/18

Left In: 63.342 $\pm$ 0.035 χ^2 /NDF: 76729.8/1

Left: 61.637 $\pm$ 0.023 χ^2 /NDF: 113057.5/4

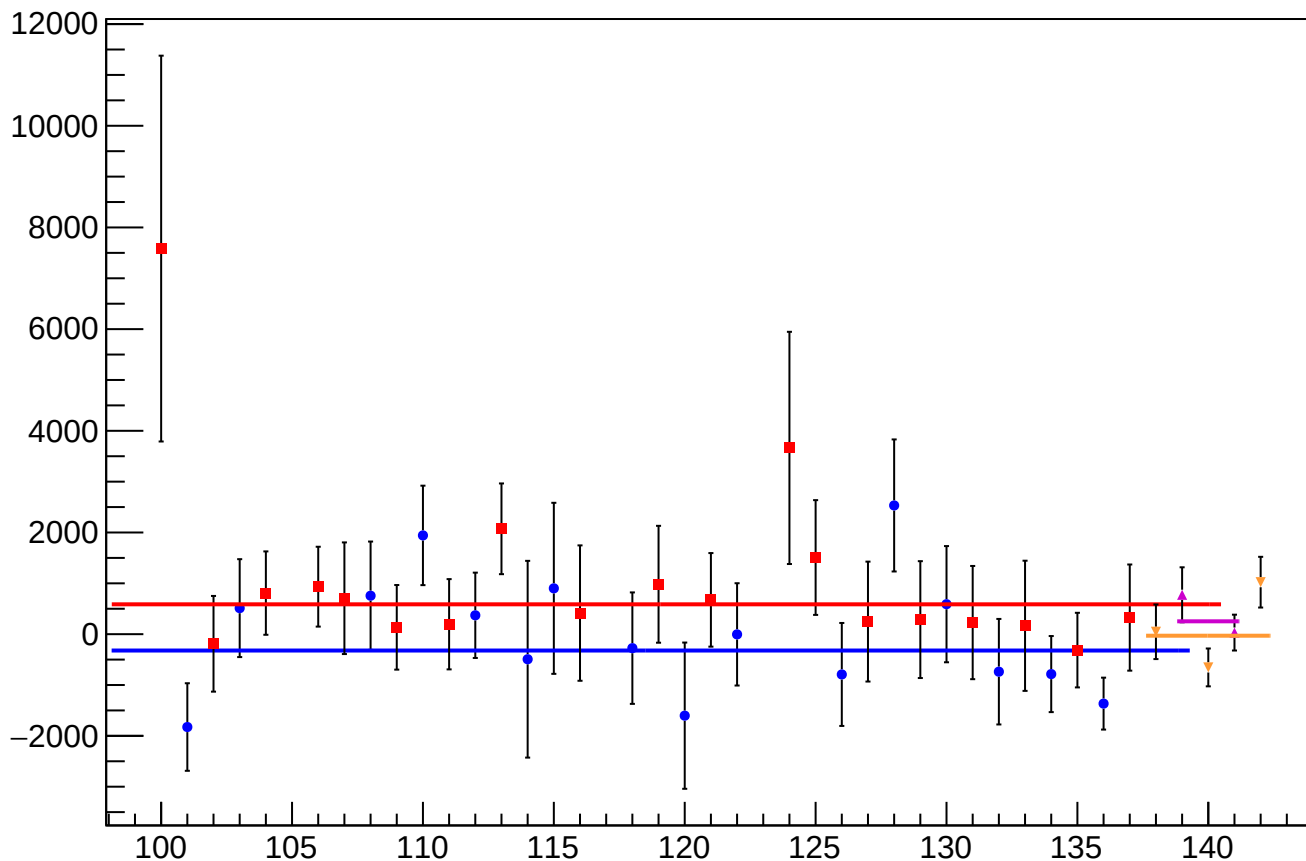
Right: 63.115 $\pm$ 0.012 χ^2 /NDF: 1592120.8/34

In: 62.718 $\pm$ 0.015 χ^2 /NDF: 835740.7/17

Out: 62.852 $\pm$ 0.015 χ^2 /NDF: 872688.4/21

All: 62.787 $\pm$ 0.011 χ^2 /NDF: 1708468.0/39

asym_sam_37_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -321.660 $\pm$ 238.484 χ^2 /NDF: 22.7/15

Left Out: -30.296 $\pm$ 260.810 χ^2 /NDF:7.3/2

Right Out: 587.224 $\pm$ 234.080 χ^2 /NDF: 12.2/18

Left In: 252.908 $\pm$ 295.315 χ^2 /NDF:1.3/1

Left: 93.802 $\pm$ 195.487 χ^2 /NDF: 9.1/4

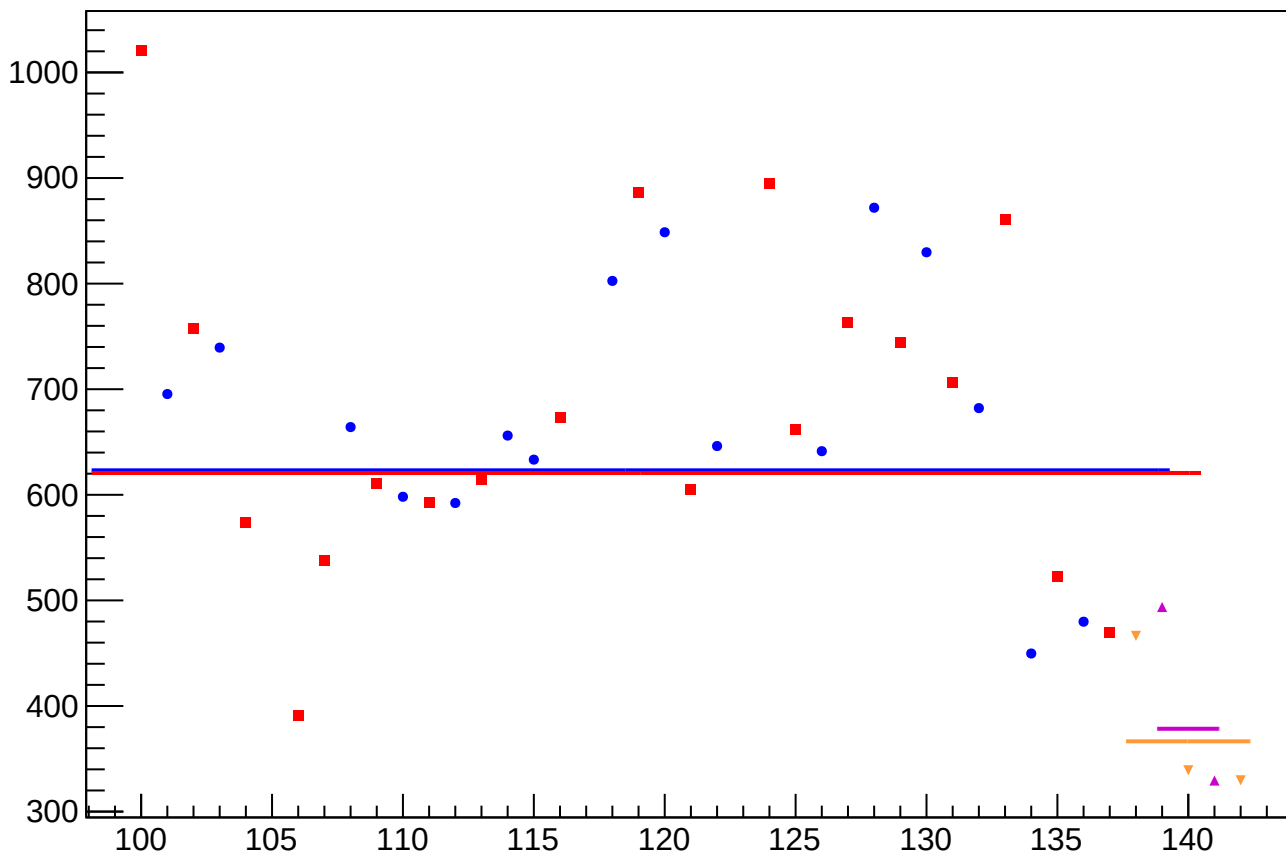
Right: 141.251 $\pm$ 167.055 χ^2 /NDF: 42.3/34

In: -94.862 $\pm$ 185.539 χ^2 /NDF:26.3/17

Out: 311.721 $\pm$ 174.206 χ^2 /NDF:22.6/21

All: 121.225 $\pm$ 127.000 χ^2 /NDF: 51.4/39

asym_sam_37_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 623.184+/-0.169 χ^2/NDF : 565557.0/15

Left Out: 366.525+/-0.184 χ^2/NDF : 90925.7/2

Right Out: 620.673+/-0.166 χ^2/NDF : 610523.8/18

Left In: 378.442+/-0.209 χ^2/NDF : 129656.7/1

Left: 371.747+/-0.138 χ^2/NDF : 222411.9/4

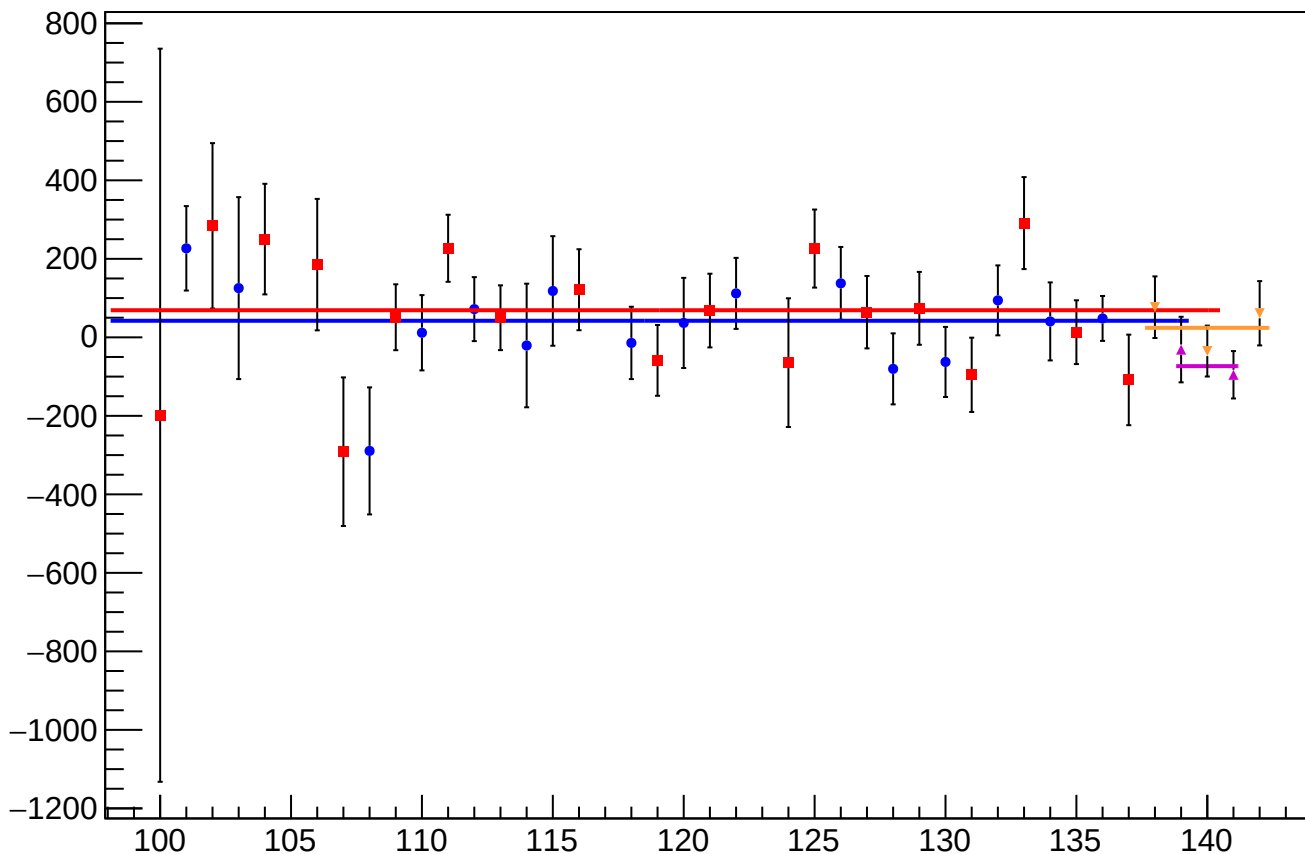
Right: 621.905+/-0.118 χ^2/NDF : 1176193.8/34

In: 526.577+/-0.131 χ^2/NDF : 1526649.3/17

Out: 507.286+/-0.123 χ^2/NDF : 1753286.3/21

All: 516.325+/-0.090 χ^2/NDF : 3291426.2/39

eigen_cor_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 42.213 $\pm$ 24.207 χ^2 /NDF: 13.6/15

Left Out: 24.253 $\pm$ 42.676 χ^2 /NDF:1.5/2

Right Out: 69.068 $\pm$ 24.420 χ^2 /NDF: 25.3/18

Left In: -73.344 $\pm$ 48.919 χ^2 /NDF:0.4/1

Left: -17.924 $\pm$ 32.159 χ^2 /NDF: 4.1/4

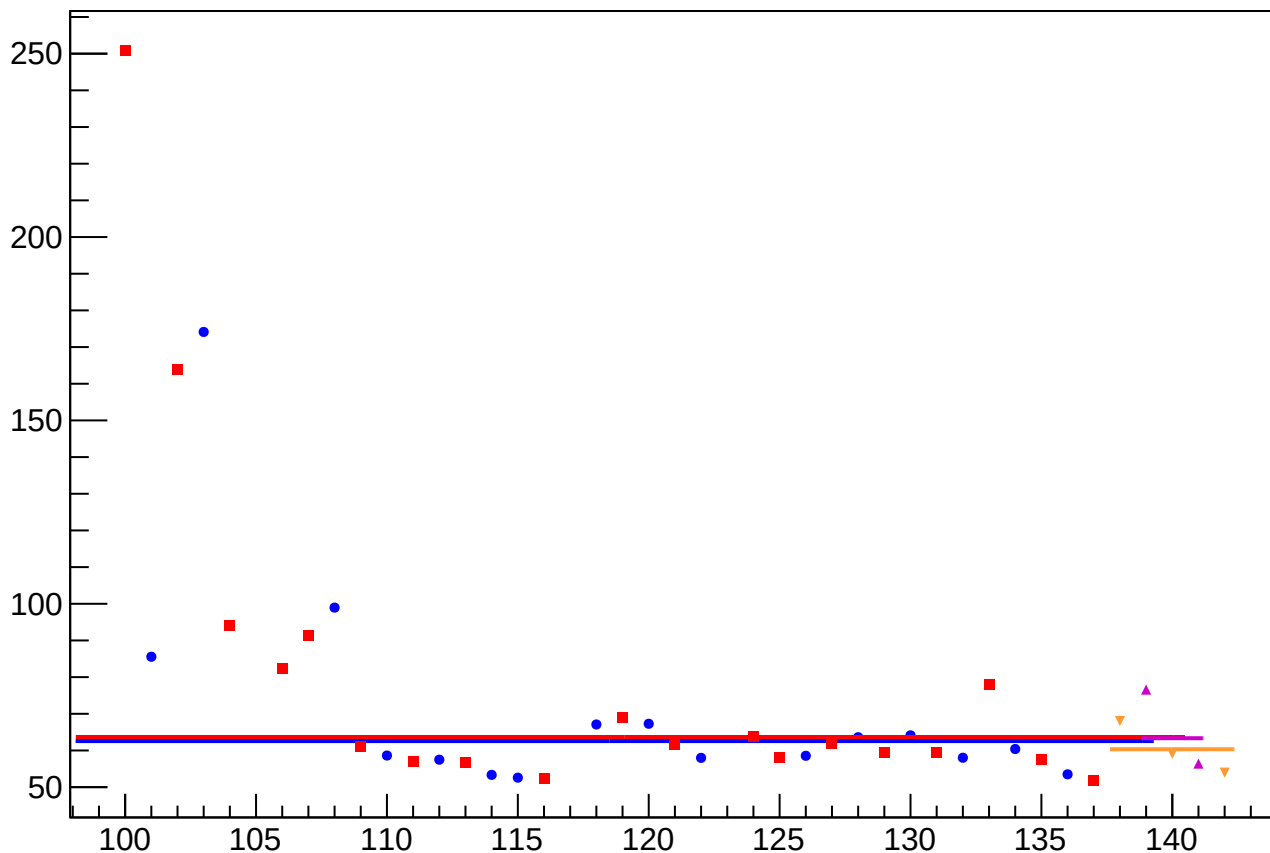
Right: 55.523 $\pm$ 17.192 χ^2 /NDF: 39.4/34

In: 19.484 $\pm$ 21.696 χ^2 /NDF:18.4/17

Out: 58.014 $\pm$ 21.195 χ^2 /NDF:27.6/21

All: 39.199 $\pm$ 15.161 χ^2 /NDF: 47.6/39

eigen_cor_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 62.566 $\pm$ 0.017 χ^2 /NDF: 758605.6/15

Left Out: 60.338 $\pm$ 0.030 χ^2 /NDF: 32044.7/2

Right Out: 63.675 $\pm$ 0.017 χ^2 /NDF: 831432.5/18

Left In: 63.342 $\pm$ 0.035 χ^2 /NDF: 76729.8/1

Left: 61.637 $\pm$ 0.023 χ^2 /NDF: 113057.5/4

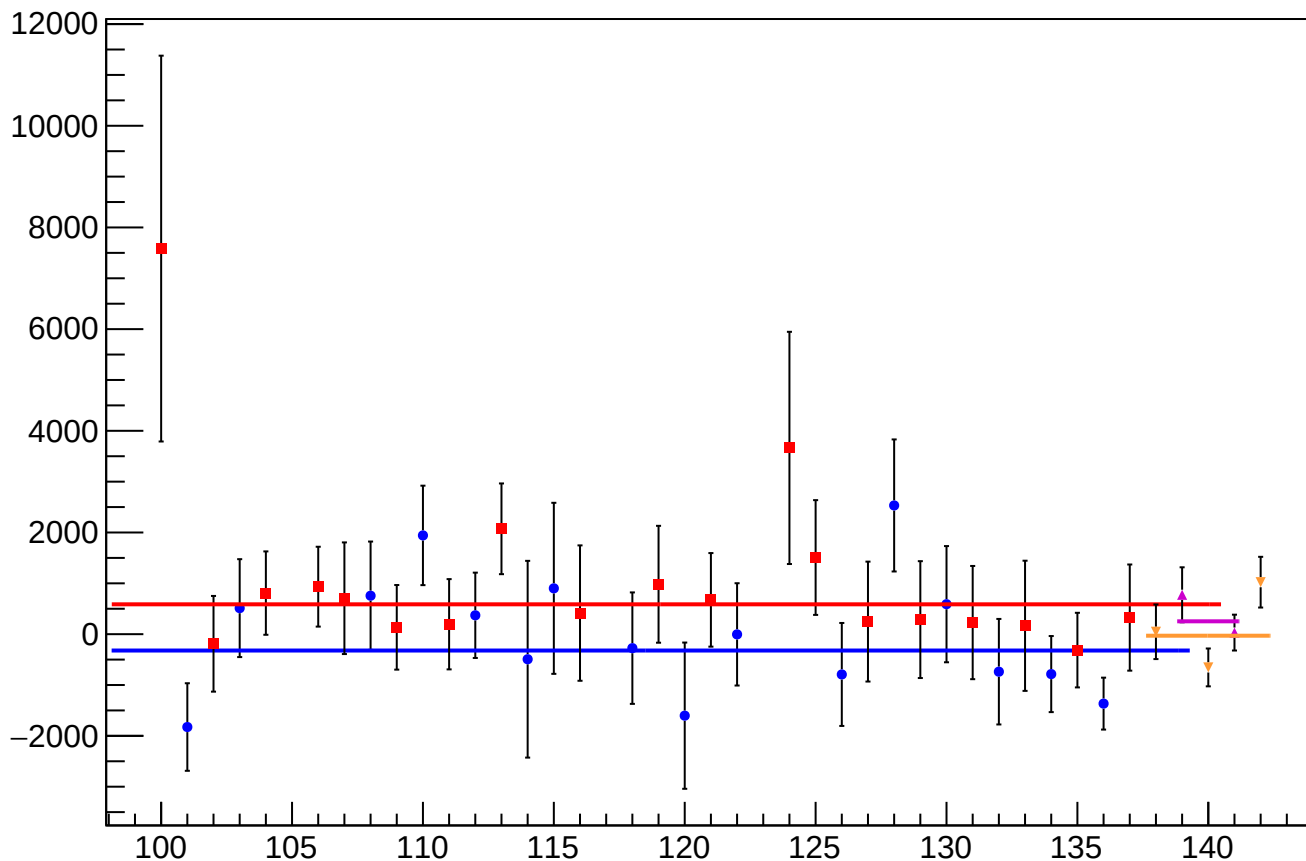
Right: 63.115 $\pm$ 0.012 χ^2 /NDF: 1592120.8/34

In: 62.718 $\pm$ 0.015 χ^2 /NDF: 835740.7/17

Out: 62.852 $\pm$ 0.015 χ^2 /NDF: 872688.4/21

All: 62.787 $\pm$ 0.011 χ^2 /NDF: 1708468.0/39

asym_sam_37_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -321.660 ± 238.484 $\chi^2/\text{NDF}: 22.7/15$

Left Out: -30.296 ± 260.810 $\chi^2/\text{NDF}: 7.3/2$

Right Out: 587.224 ± 234.080 $\chi^2/\text{NDF}: 12.2/18$

Left In: 252.908 ± 295.315 $\chi^2/\text{NDF}: 1.3/1$

Left: 93.802 ± 195.487 $\chi^2/\text{NDF}: 9.1/4$

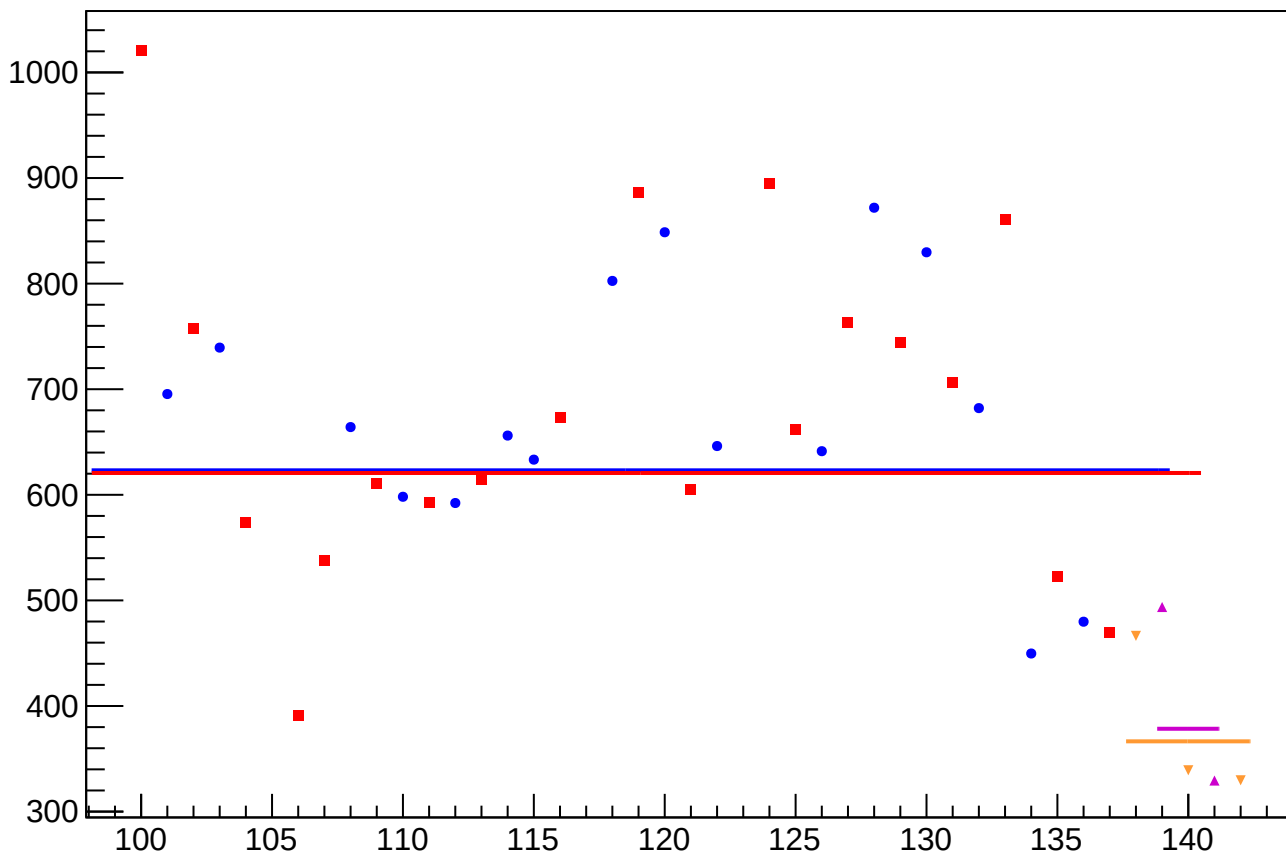
Right: 141.251 ± 167.055 $\chi^2/\text{NDF}: 42.3/34$

In: -94.862 ± 185.539 $\chi^2/\text{NDF}: 26.3/17$

Out: 311.721 ± 174.206 $\chi^2/\text{NDF}: 22.6/21$

All: 121.225 ± 127.000 $\chi^2/\text{NDF}: 51.4/39$

asym_sam_37_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 623.184+/-0.169 χ^2/NDF : 565557.0/15

Left Out: 366.525+/-0.184 χ^2/NDF : 90925.7/2

Right Out: 620.673+/-0.166 χ^2/NDF : 610523.8/18

Left In: 378.442+/-0.209 χ^2/NDF : 129656.7/1

Left: 371.747+/-0.138 χ^2/NDF : 222411.9/4

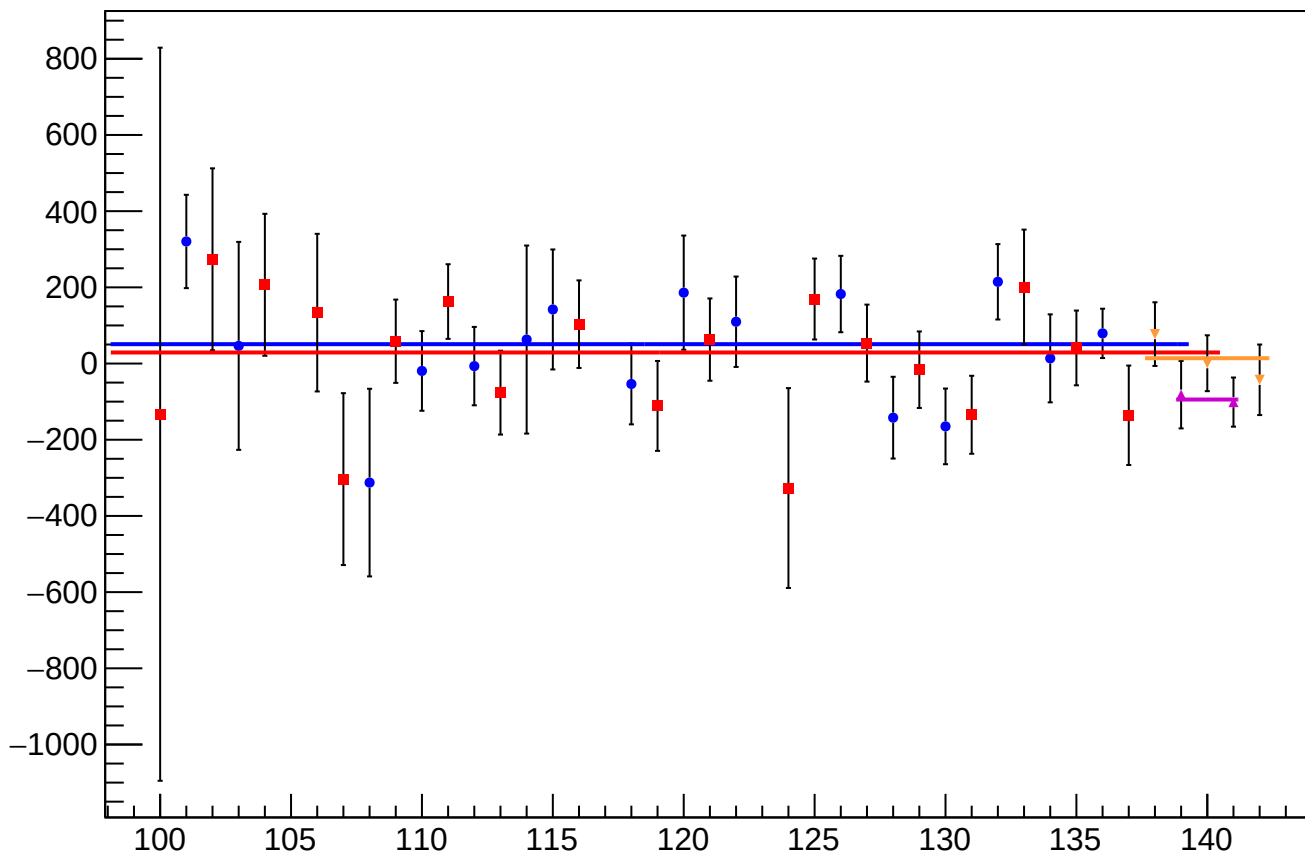
Right: 621.905+/-0.118 χ^2/NDF : 1176193.8/34

In: 526.577+/-0.131 χ^2/NDF : 1526649.3/17

Out: 507.286+/-0.123 χ^2/NDF : 1753286.3/21

All: 516.325+/-0.090 χ^2/NDF : 3291426.2/39

dit_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 50.840 $\pm$ 28.316 χ^2 /NDF: 22.9/15

Left Out: 14.009 $\pm$ 47.355 χ^2 /NDF:1.0/2

Right Out: 29.040 $\pm$ 28.910 χ^2 /NDF: 18.5/18

Left In: -94.453 $\pm$ 52.130 χ^2 /NDF:0.0/1

Left: -35.028 $\pm$ 35.052 χ^2 /NDF: 3.4/4

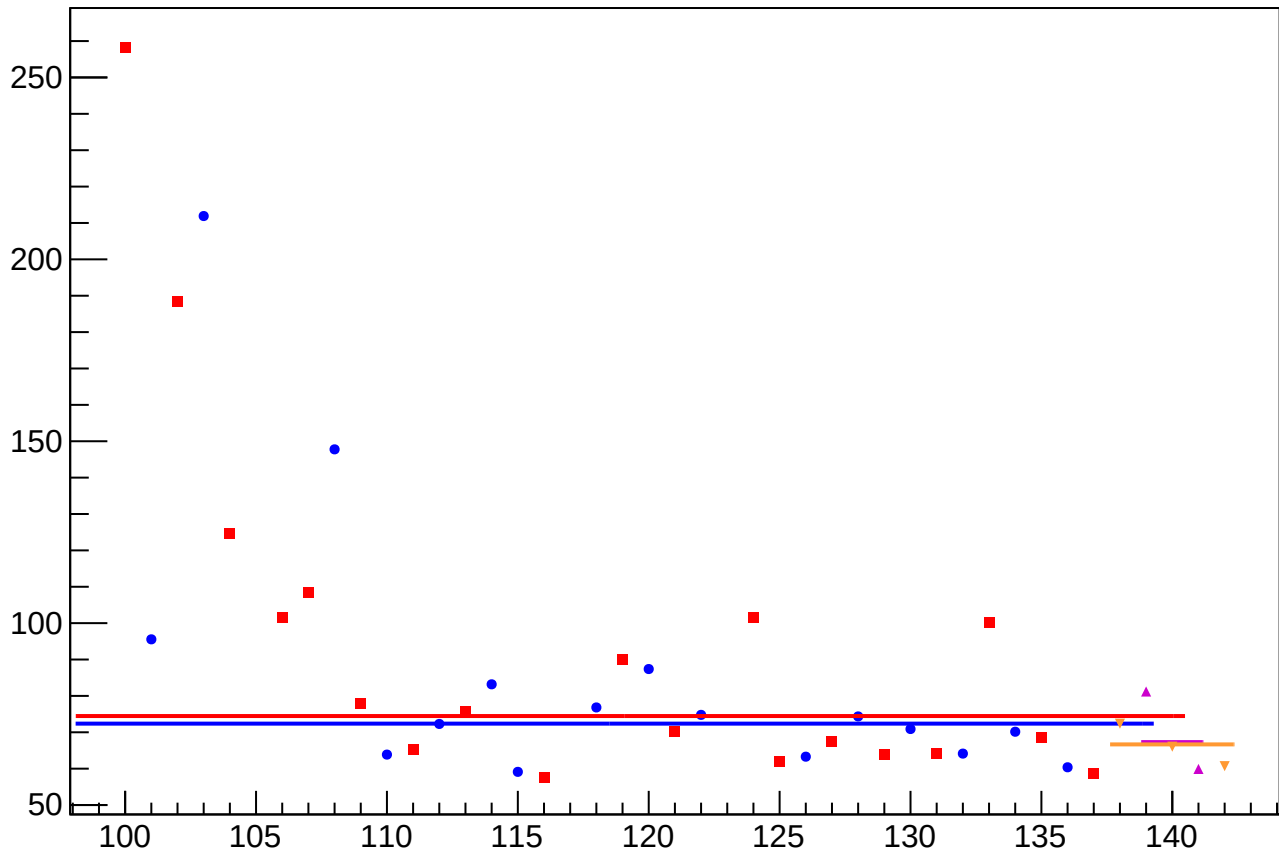
Right: 40.166 $\pm$ 20.229 χ^2 /NDF: 41.7/34

In: 17.738 $\pm$ 24.882 χ^2 /NDF:28.9/17

Out: 24.959 $\pm$ 24.675 χ^2 /NDF:19.6/21

All: 21.378 $\pm$ 17.521 χ^2 /NDF: 48.5/39

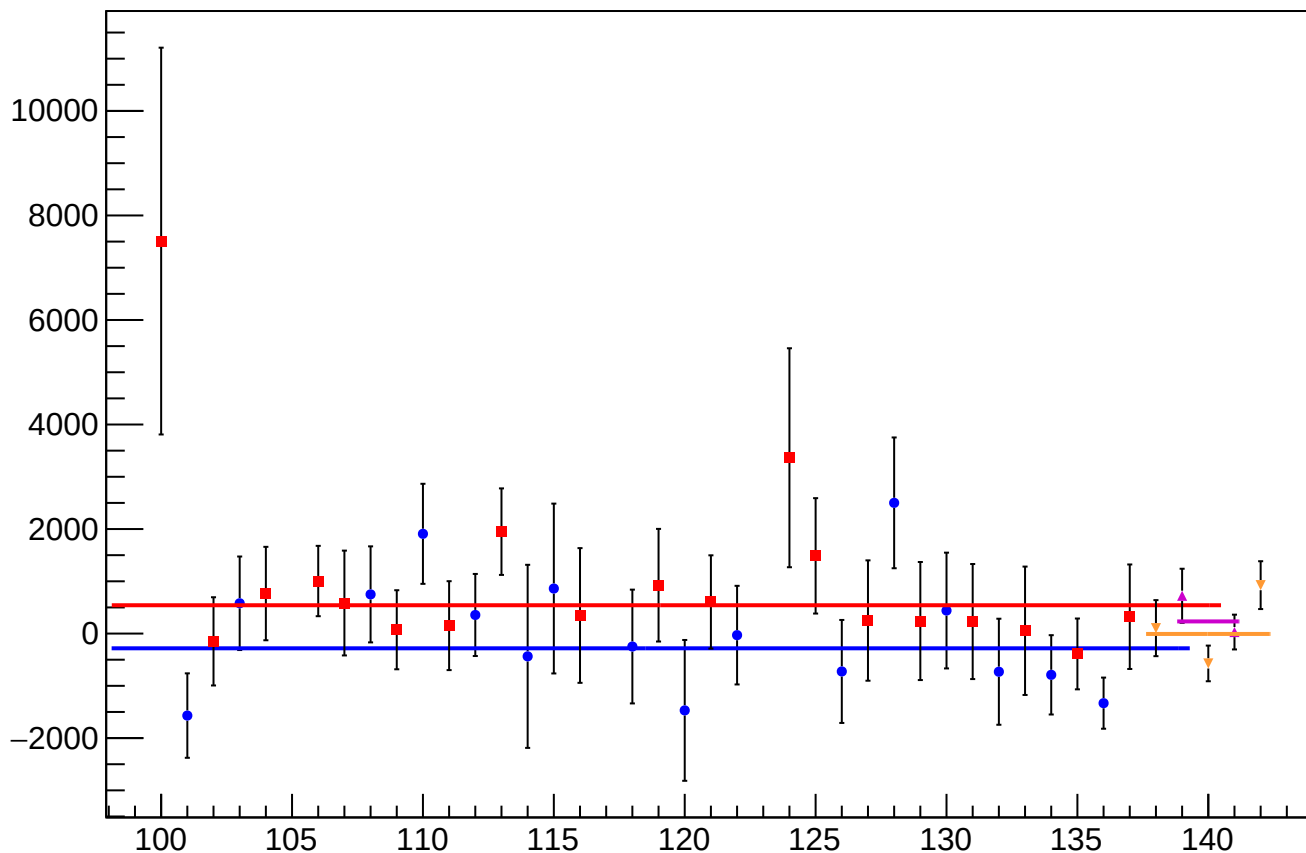
dit_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 72.378 $\pm$ 0.020 χ^2 /NDF: 938175.3/15
 Left Out: 66.669 $\pm$ 0.033 χ^2 /NDF:17786.5/2
 Right Out: 74.463 $\pm$ 0.020 χ^2 /NDF: 1052296.6/18
 Left In: 67.301 $\pm$ 0.037 χ^2 /NDF:75470.2/1

Left: 66.955 $\pm$ 0.025 χ^2 /NDF: 93417.4/4
 Right: 73.399 $\pm$ 0.014 χ^2 /NDF: 1995784.4/34
 In: 71.221 $\pm$ 0.018 χ^2 /NDF:1028294.2/17
 Out: 72.347 $\pm$ 0.017 χ^2 /NDF:1109550.8/21
 All: 71.789 $\pm$ 0.012 χ^2 /NDF: 2139910.8/39

asym_sam_37_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -282.039+/-227.789 χ^2/NDF : 22.8/15

Left Out: -7.305+/-243.650 χ^2/NDF : 6.9/2

Right Out: 542.028+/-220.904 χ^2/NDF : 13.3/18

Left In: 232.377+/-279.831 χ^2/NDF : 1.3/1

Left: 96.049+/-183.756 χ^2/NDF : 8.6/4

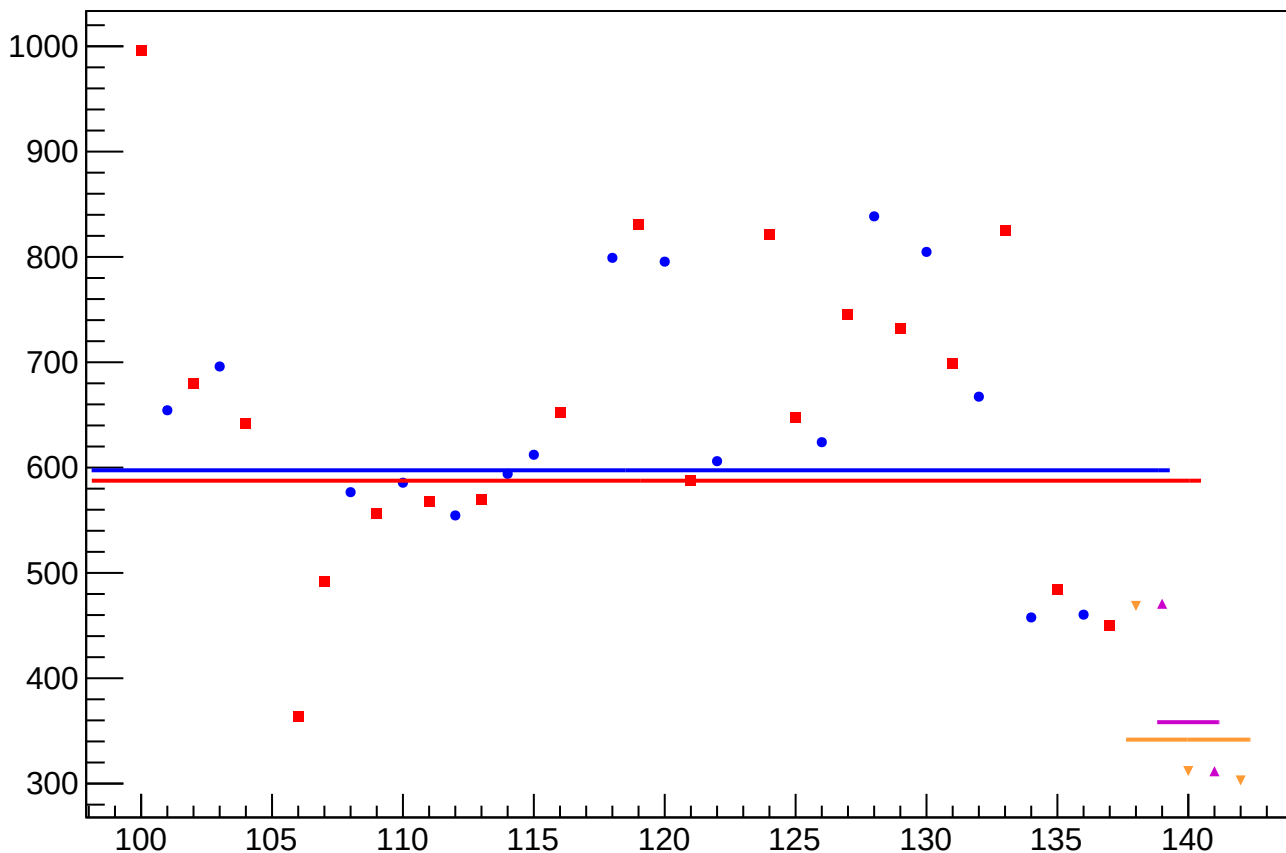
Right: 142.636+/-158.581 χ^2/NDF : 42.8/34

In: -77.021+/-176.659 χ^2/NDF : 26.1/17

Out: 294.194+/-163.655 χ^2/NDF : 23.0/21

All: 122.750+/-120.056 χ^2/NDF : 51.5/39

asym_sam_37_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 597.438+/-0.161 χ^2/NDF : 533791.9/15

Left Out: 341.727+/-0.172 χ^2/NDF : 141822.0/2

Right Out: 587.565+/-0.156 χ^2/NDF : 689035.8/18

Left In: 358.287+/-0.198 χ^2/NDF : 133794.6/1

Left: 348.868+/-0.130 χ^2/NDF : 279600.1/4

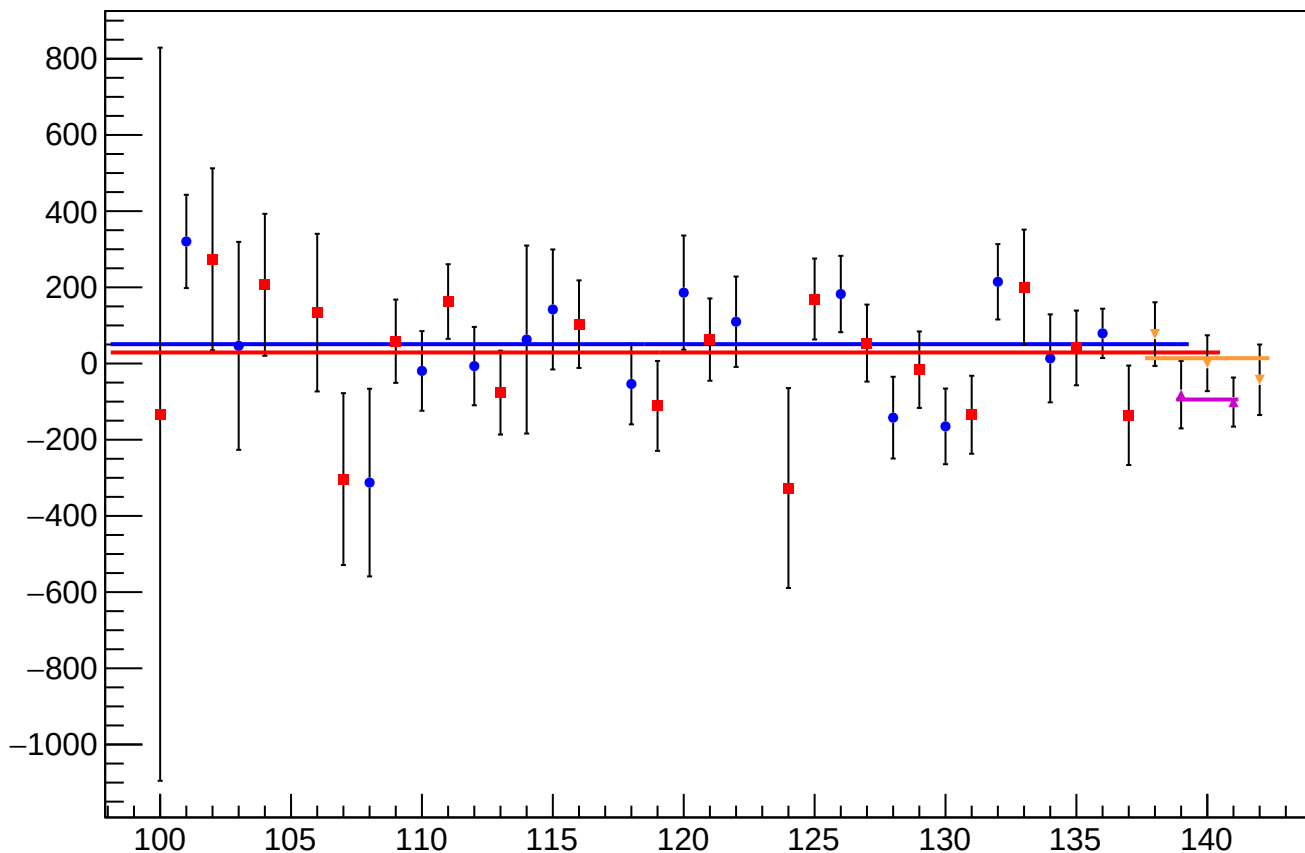
Right: 592.350+/-0.112 χ^2/NDF : 1224764.0/34

In: 502.126+/-0.125 χ^2/NDF : 1546178.5/17

Out: 476.654+/-0.116 χ^2/NDF : 1948353.7/21

All: 488.418+/-0.085 χ^2/NDF : 3516907.7/39

eigen_dit_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 50.840 $\pm$ 28.316 χ^2 /NDF: 22.9/15

Left Out: 14.010 $\pm$ 47.355 χ^2 /NDF:1.0/2

Right Out: 29.038 $\pm$ 28.910 χ^2 /NDF: 18.5/18

Left In: -94.453 $\pm$ 52.130 χ^2 /NDF:0.0/1

Left: -35.027 $\pm$ 35.052 χ^2 /NDF: 3.4/4

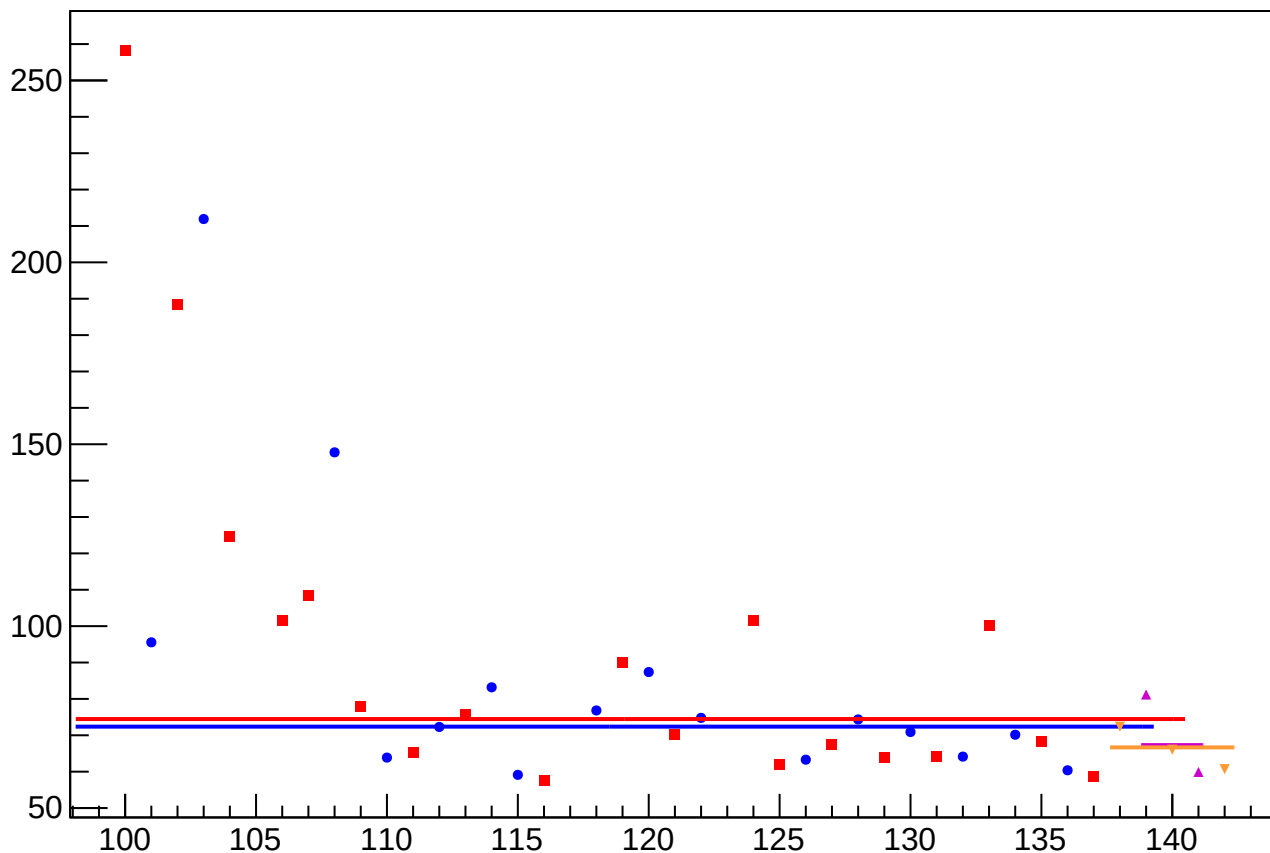
Right: 40.165 $\pm$ 20.229 χ^2 /NDF: 41.7/34

In: 17.738 $\pm$ 24.882 χ^2 /NDF:28.9/17

Out: 24.958 $\pm$ 24.675 χ^2 /NDF:19.6/21

All: 21.378 $\pm$ 17.521 χ^2 /NDF: 48.5/39

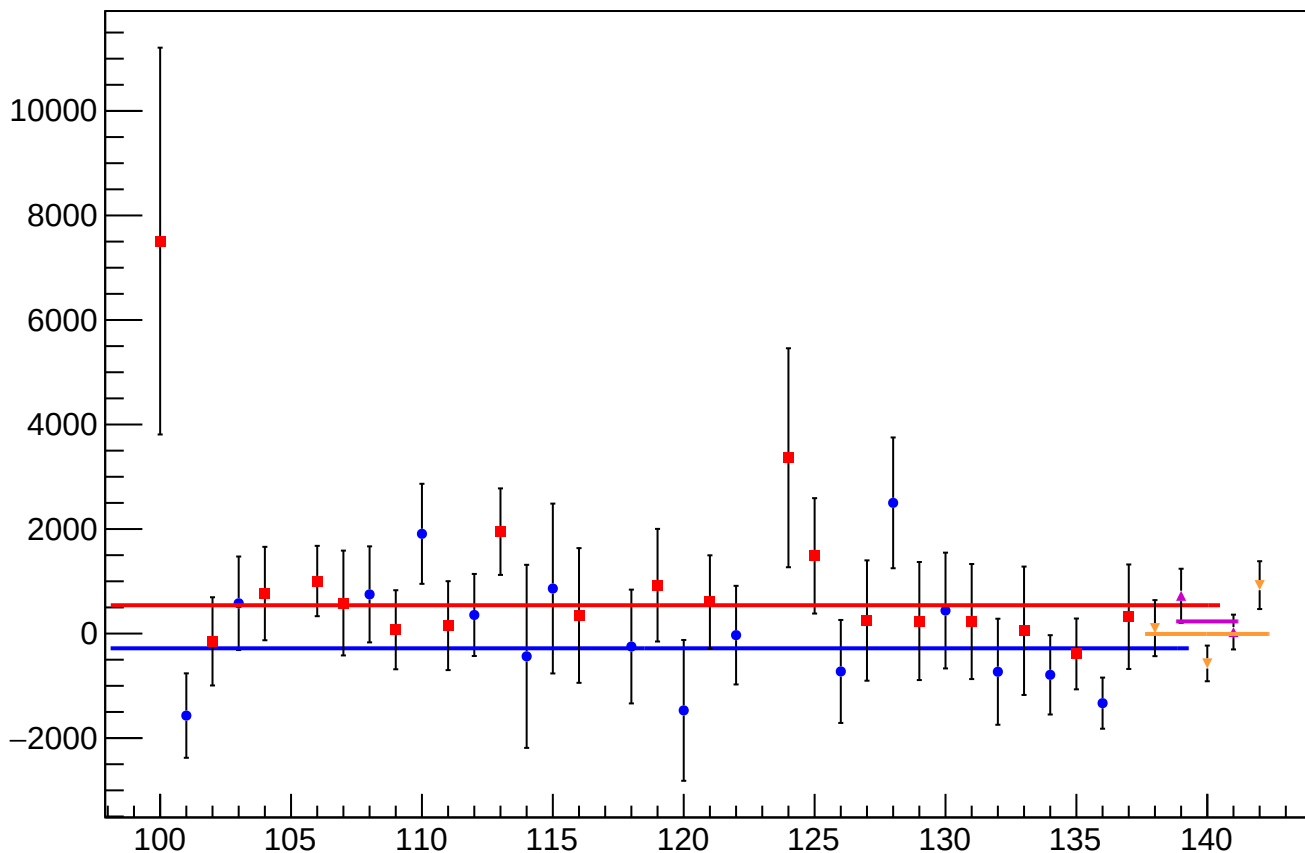
eigen_dit_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 72.378 $\pm$ 0.020 χ^2 /NDF: 938180.0/15
 Left Out: 66.669 $\pm$ 0.033 χ^2 /NDF:17788.1/2
 Right Out: 74.463 $\pm$ 0.020 χ^2 /NDF: 1052290.0/18
 Left In: 67.301 $\pm$ 0.037 χ^2 /NDF:75467.9/1

Left: 66.955 $\pm$ 0.025 χ^2 /NDF: 93416.8/4
 Right: 73.399 $\pm$ 0.014 χ^2 /NDF: 1995782.9/34
 In: 71.221 $\pm$ 0.018 χ^2 /NDF:1028295.7/17
 Out: 72.347 $\pm$ 0.017 χ^2 /NDF:1109545.8/21
 All: 71.789 $\pm$ 0.012 χ^2 /NDF: 2139907.4/39

asym_sam_37_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -282.038 ± 227.789 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -7.306 ± 243.650 $\chi^2/\text{NDF}: 6.9/2$

Right Out: 542.028 ± 220.904 $\chi^2/\text{NDF}: 13.3/18$

Left In: 232.376 ± 279.831 $\chi^2/\text{NDF}: 1.3/1$

Left: 96.048 ± 183.756 $\chi^2/\text{NDF}: 8.6/4$

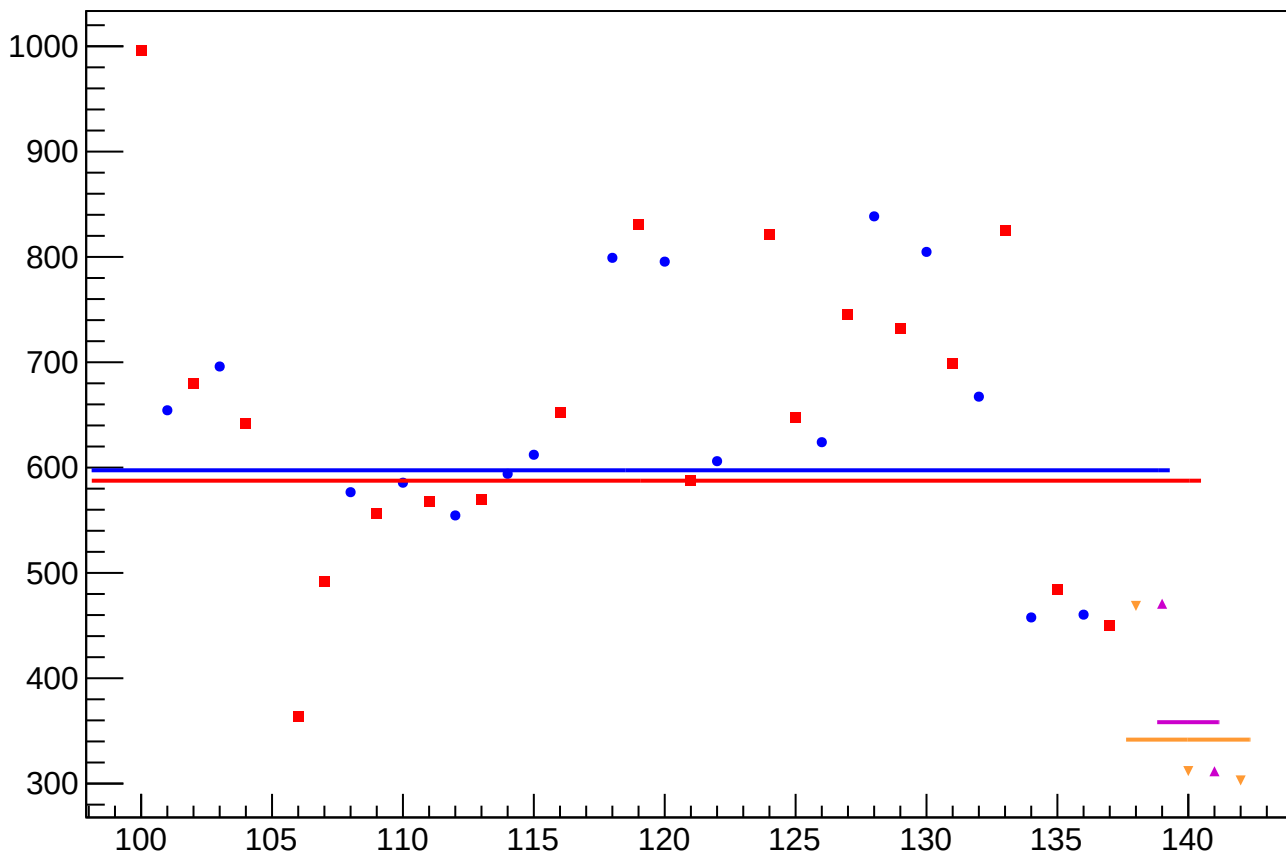
Right: 142.637 ± 158.581 $\chi^2/\text{NDF}: 42.8/34$

In: -77.021 ± 176.659 $\chi^2/\text{NDF}: 26.1/17$

Out: 294.194 ± 163.655 $\chi^2/\text{NDF}: 23.0/21$

All: 122.750 ± 120.056 $\chi^2/\text{NDF}: 51.5/39$

asym_sam_37_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 597.439+/-0.161 χ^2/NDF : 533790.1/15

Left Out: 341.728+/-0.172 χ^2/NDF : 141823.7/2

Right Out: 587.565+/-0.156 χ^2/NDF : 689033.6/18

Left In: 358.286+/-0.198 χ^2/NDF : 133796.7/1

Left: 348.868+/-0.130 χ^2/NDF : 279603.8/4

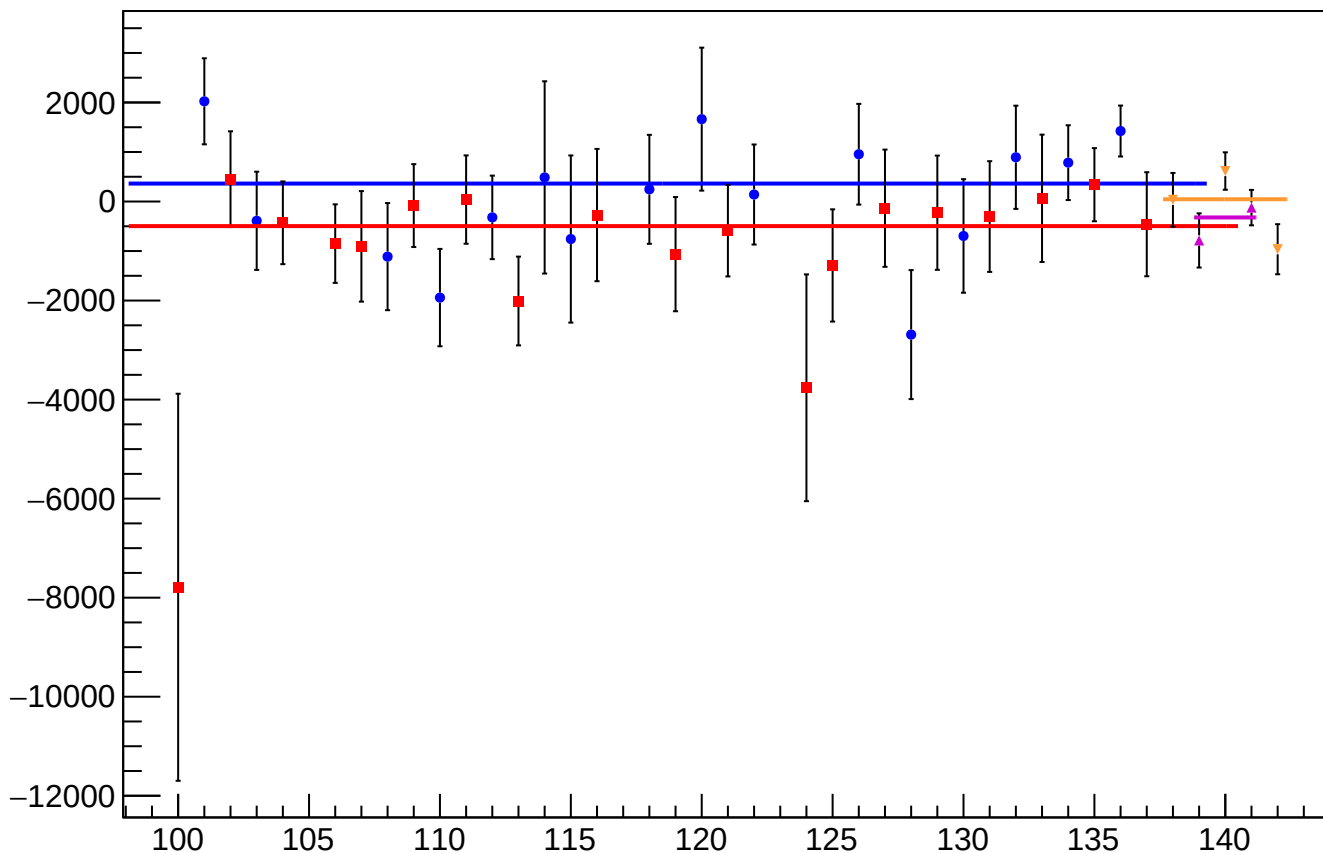
Right: 592.350+/-0.112 χ^2/NDF : 1224760.1/34

In: 502.125+/-0.125 χ^2/NDF : 1546183.2/17

Out: 476.654+/-0.116 χ^2/NDF : 1948347.5/21

All: 488.418+/-0.085 χ^2/NDF : 3516905.8/39

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 362.384 $\pm$ 240.303 χ^2 /NDF: 25.1/15

Left Out: 45.736 $\pm$ 264.393 χ^2 /NDF:6.3/2

Right Out: -496.639 $\pm$ 236.029 χ^2 /NDF: 12.7/18

Left In: -321.617 $\pm$ 299.422 χ^2 /NDF:1.0/1

Left: -115.205 $\pm$ 198.187 χ^2 /NDF: 8.1/4

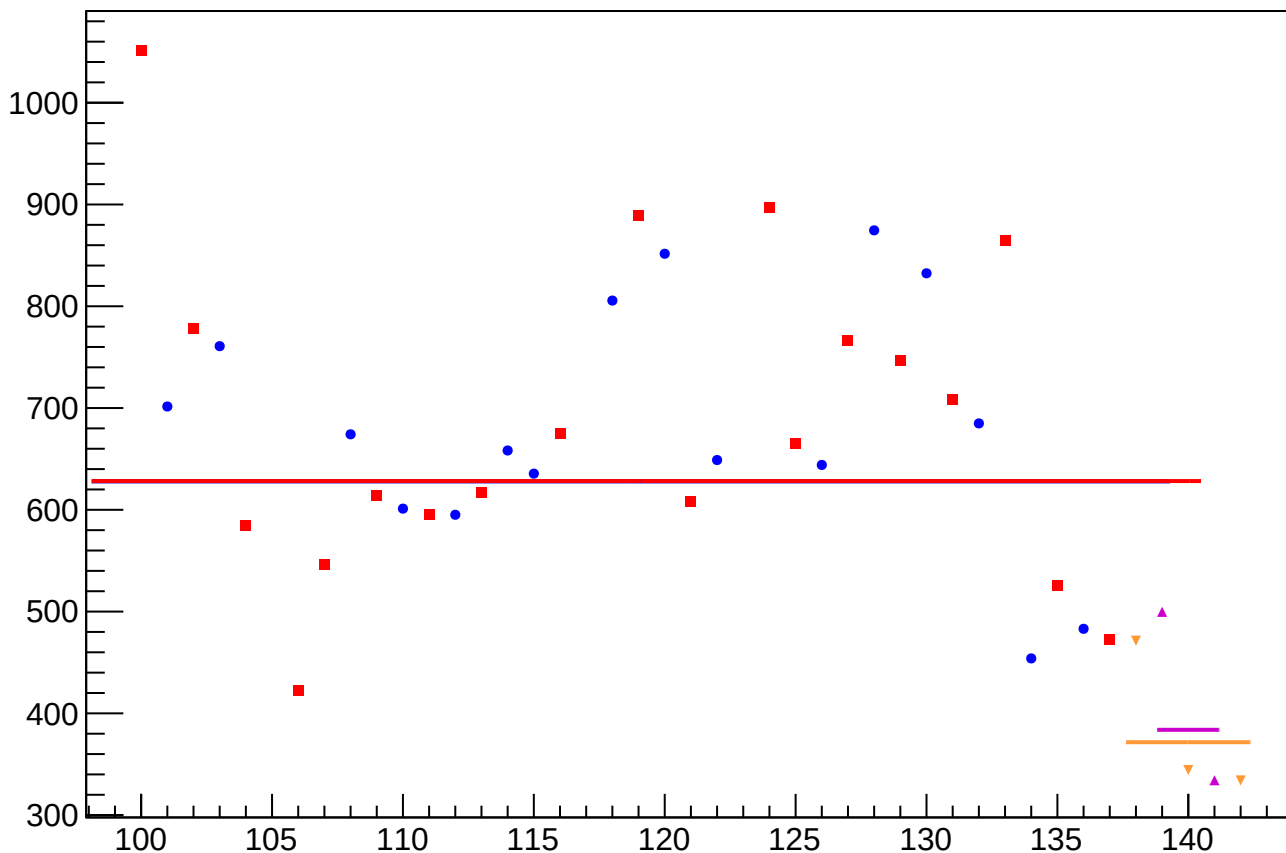
Right: -74.835 $\pm$ 168.388 χ^2 /NDF: 44.3/34

In: 94.417 $\pm$ 187.411 χ^2 /NDF:29.3/17

Out: -256.095 $\pm$ 176.075 χ^2 /NDF:21.3/21

All: -91.760 $\pm$ 128.324 χ^2 /NDF: 52.4/39

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 627.896+/-0.170 χ^2/NDF : 566795.7/15

Left Out: 371.651+/-0.187 χ^2/NDF : 89004.2/2

Right Out: 628.250+/-0.167 χ^2/NDF : 570979.3/18

Left In: 383.829+/-0.212 χ^2/NDF : 128185.2/1

Left: 376.986+/-0.140 χ^2/NDF : 219048.5/4

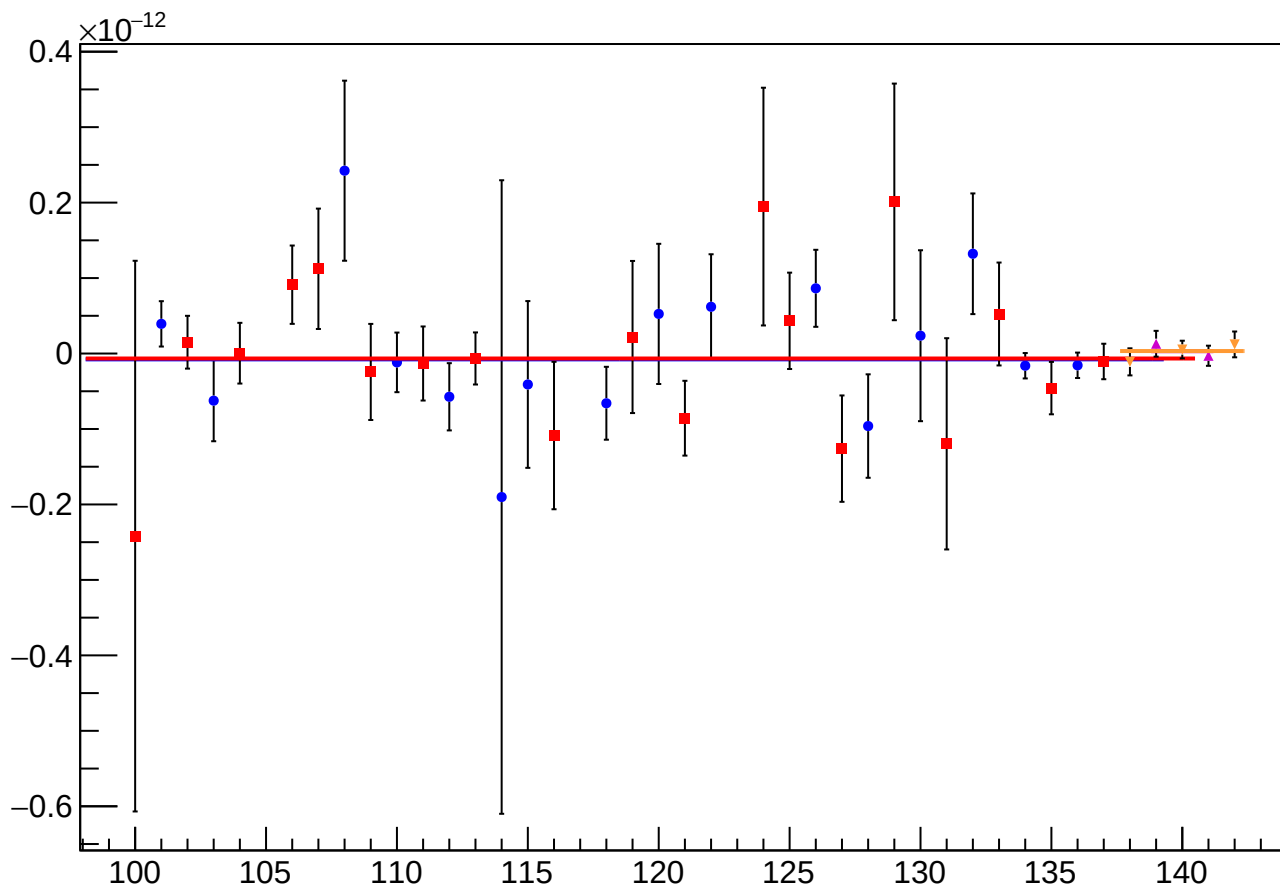
Right: 628.076+/-0.119 χ^2/NDF : 1137777.3/34

In: 532.279+/-0.133 χ^2/NDF : 1503244.1/17

Out: 514.448+/-0.125 χ^2/NDF : 1708331.2/21

All: 522.808+/-0.091 χ^2/NDF : 3221192.3/39

asym_sam_37_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 21.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 20.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.5/1

Left: 0.000+/-0.000 χ^2/NDF : 1.5/4

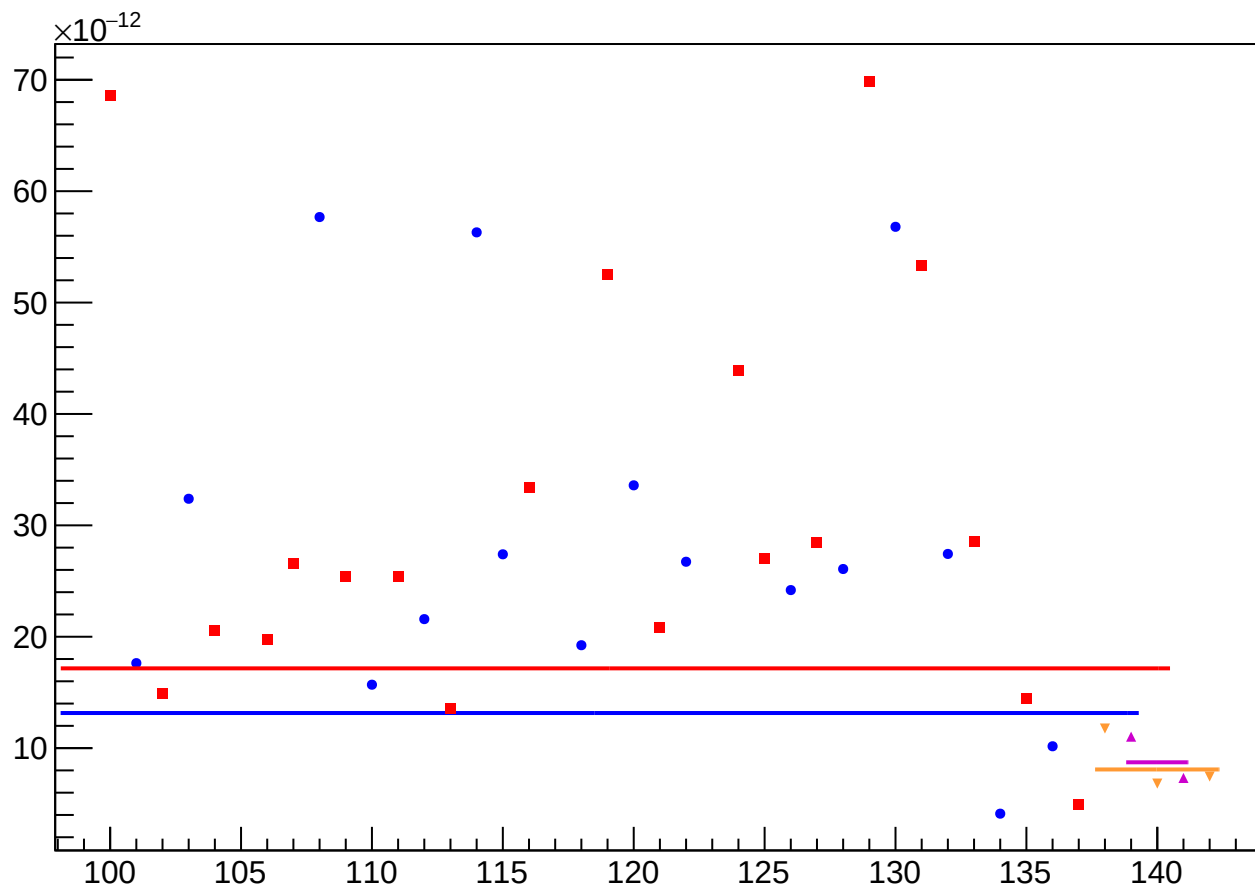
Right: -0.000+/-0.000 χ^2/NDF : 41.0/34

In: -0.000+/-0.000 χ^2/NDF : 22.1/17

Out: -0.000+/-0.000 χ^2/NDF : 21.4/21

All: -0.000+/-0.000 χ^2/NDF : 43.6/39

asym_sam_37_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2082875.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 110036.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1646197.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 58456.2/1

Left: 0.000+/-0.000 χ^2/NDF : 173009.8/4

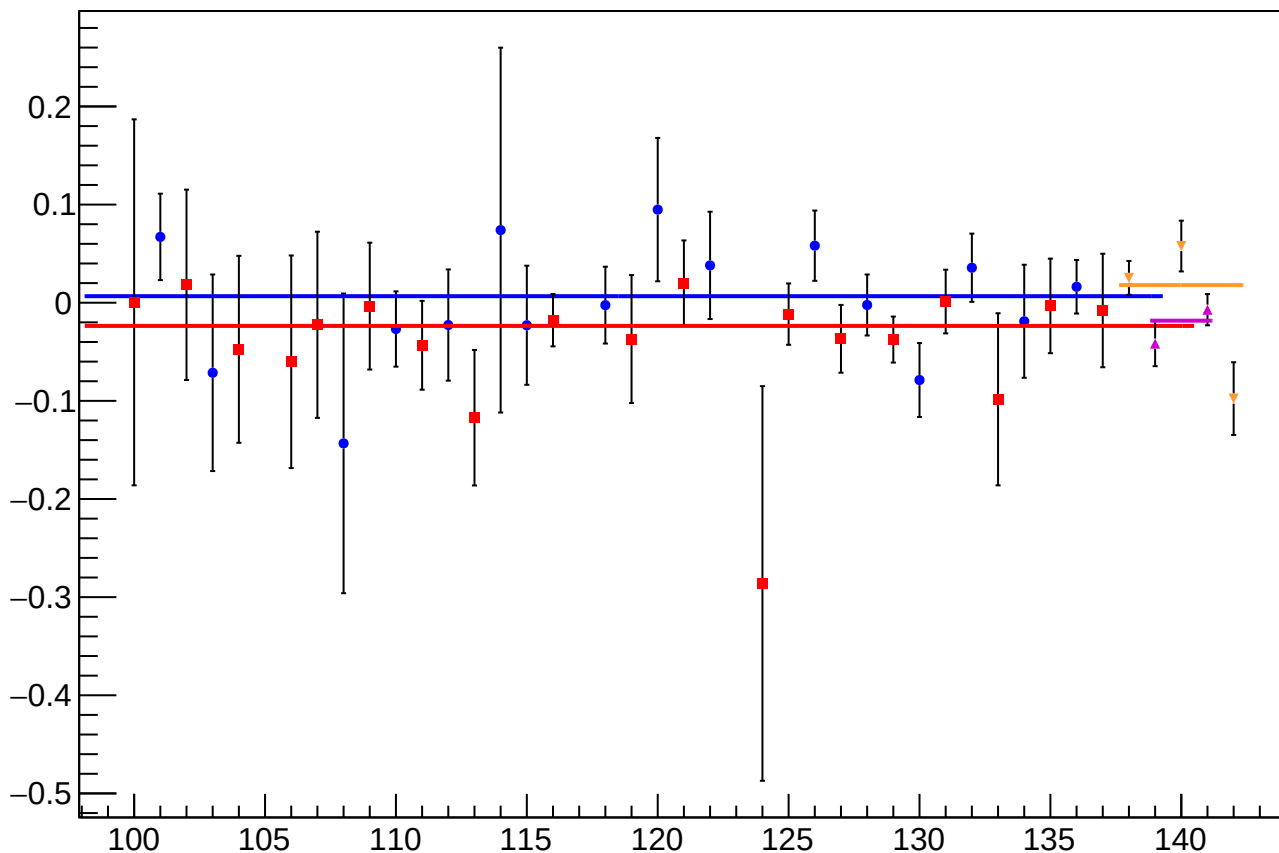
Right: 0.000+/-0.000 χ^2/NDF : 3874616.1/34

In: 0.000+/-0.000 χ^2/NDF : 2338614.9/17

Out: 0.000+/-0.000 χ^2/NDF : 2557891.4/21

All: 0.000+/-0.000 χ^2/NDF : 4896672.4/39

asym_sam_37_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.007 ± 0.011 $\chi^2/\text{NDF}: 15.0/15$

Left Out: 0.018 ± 0.013 $\chi^2/\text{NDF}: 12.3/2$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.018 ± 0.013 $\chi^2/\text{NDF}: 1.5/1$

Left: -0.001 ± 0.009 $\chi^2/\text{NDF}: 17.6/4$

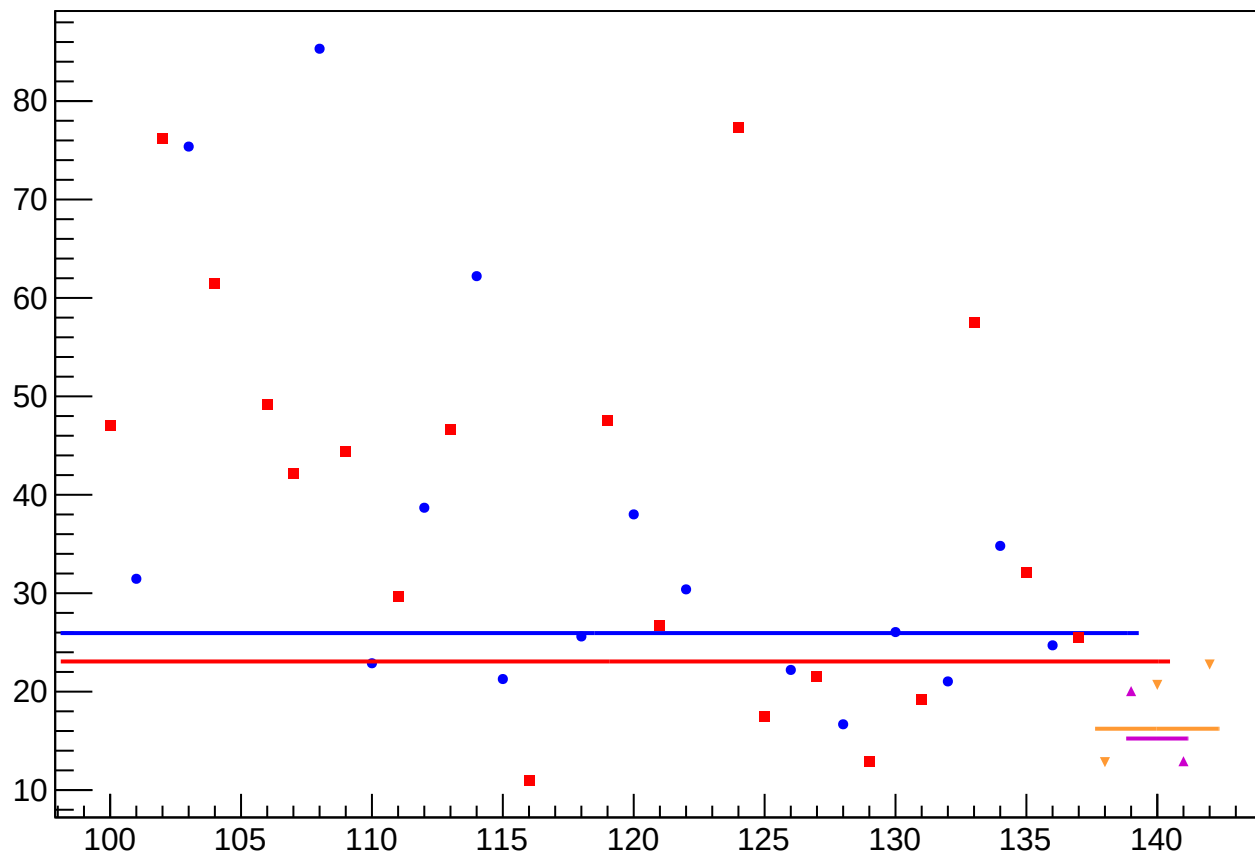
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.004 ± 0.008 $\chi^2/\text{NDF}: 18.6/17$

Out: -0.008 ± 0.008 $\chi^2/\text{NDF}: 25.8/21$

All: -0.006 ± 0.006 $\chi^2/\text{NDF}: 44.5/39$

asym_sam_37_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.949 $\pm$ 0.008 χ^2 /NDF: 1381638.3/15

Left Out: 16.232 $\pm$ 0.009 χ^2 /NDF:198840.8/2

Right Out: 23.065 $\pm$ 0.007 χ^2 /NDF: 3360857.8/18

Left In: 15.236 $\pm$ 0.009 χ^2 /NDF:129755.0/1

Left: 15.723 $\pm$ 0.007 χ^2 /NDF: 334257.1/4

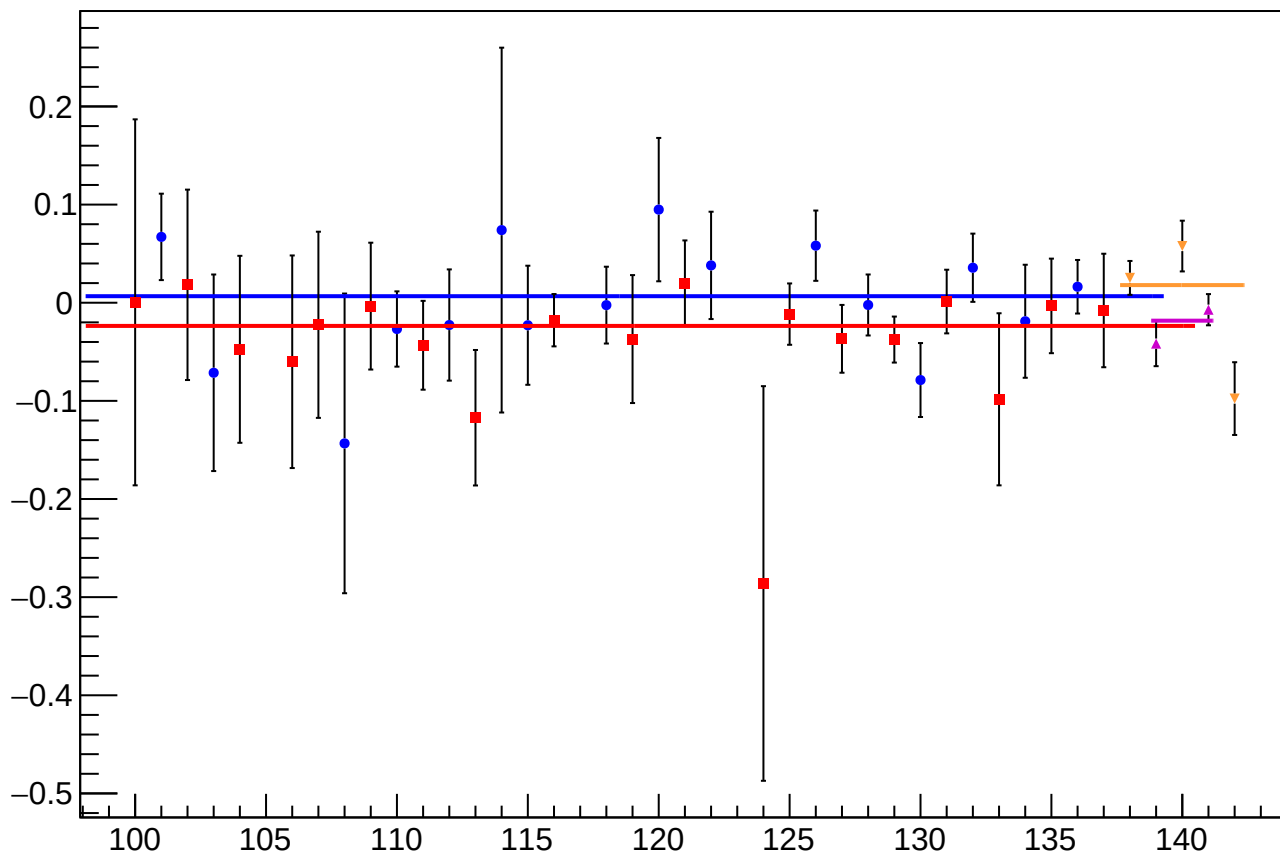
Right: 24.427 $\pm$ 0.005 χ^2 /NDF: 4813744.3/34

In: 21.465 $\pm$ 0.006 χ^2 /NDF:2291169.8/17

Out: 20.461 $\pm$ 0.006 χ^2 /NDF:3882404.1/21

All: 20.951 $\pm$ 0.004 χ^2 /NDF: 6187997.4/39

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.007 ± 0.011 $\chi^2/\text{NDF}: 15.0/15$

Left Out: 0.018 ± 0.013 $\chi^2/\text{NDF}: 12.3/2$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.018 ± 0.013 $\chi^2/\text{NDF}: 1.5/1$

Left: -0.001 ± 0.009 $\chi^2/\text{NDF}: 17.6/4$

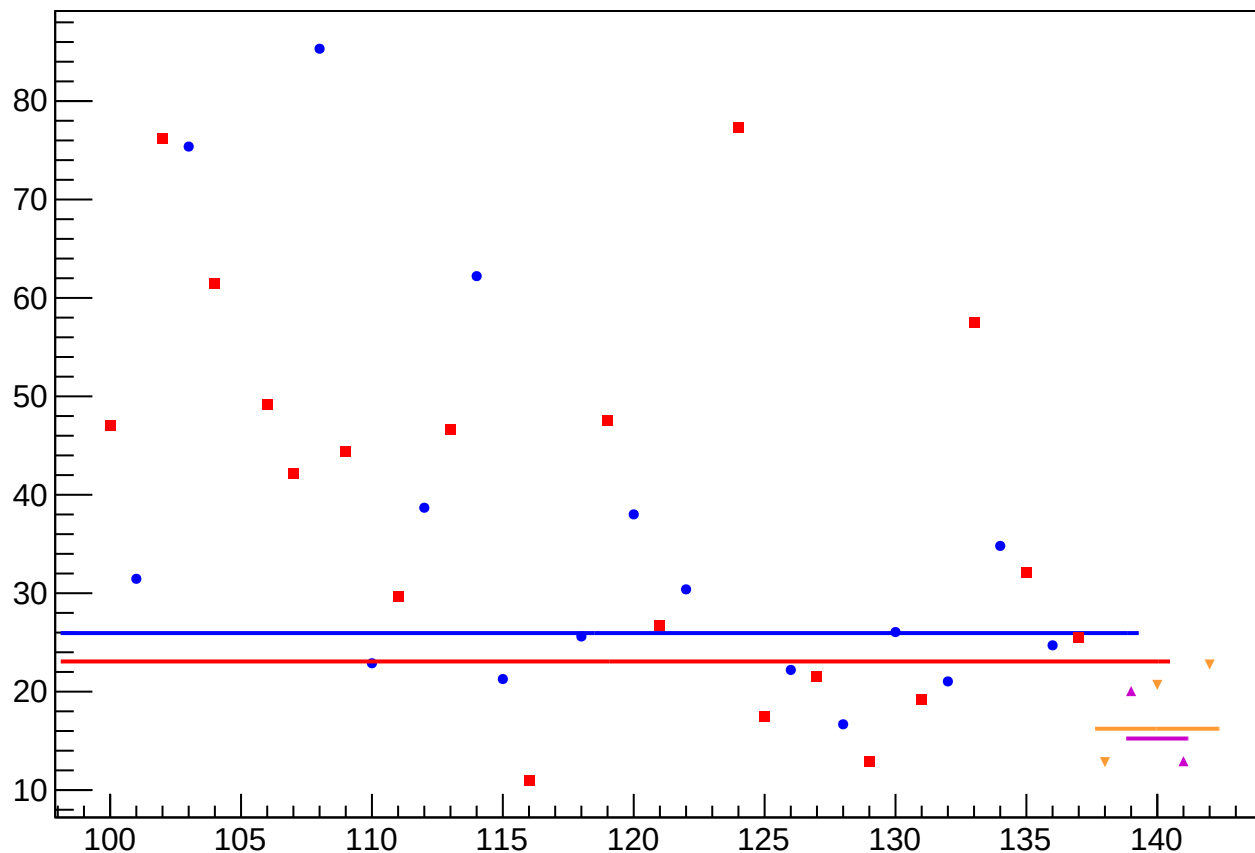
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.004 ± 0.008 $\chi^2/\text{NDF}: 18.6/17$

Out: -0.008 ± 0.008 $\chi^2/\text{NDF}: 25.8/21$

All: -0.006 ± 0.006 $\chi^2/\text{NDF}: 44.5/39$

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.949 $\pm$ 0.008 χ^2 /NDF: 1381638.3/15

Left Out: 16.232 $\pm$ 0.009 χ^2 /NDF:198840.8/2

Right Out: 23.065 $\pm$ 0.007 χ^2 /NDF: 3360857.8/18

Left In: 15.236 $\pm$ 0.009 χ^2 /NDF:129755.0/1

Left: 15.723 $\pm$ 0.007 χ^2 /NDF: 334257.1/4

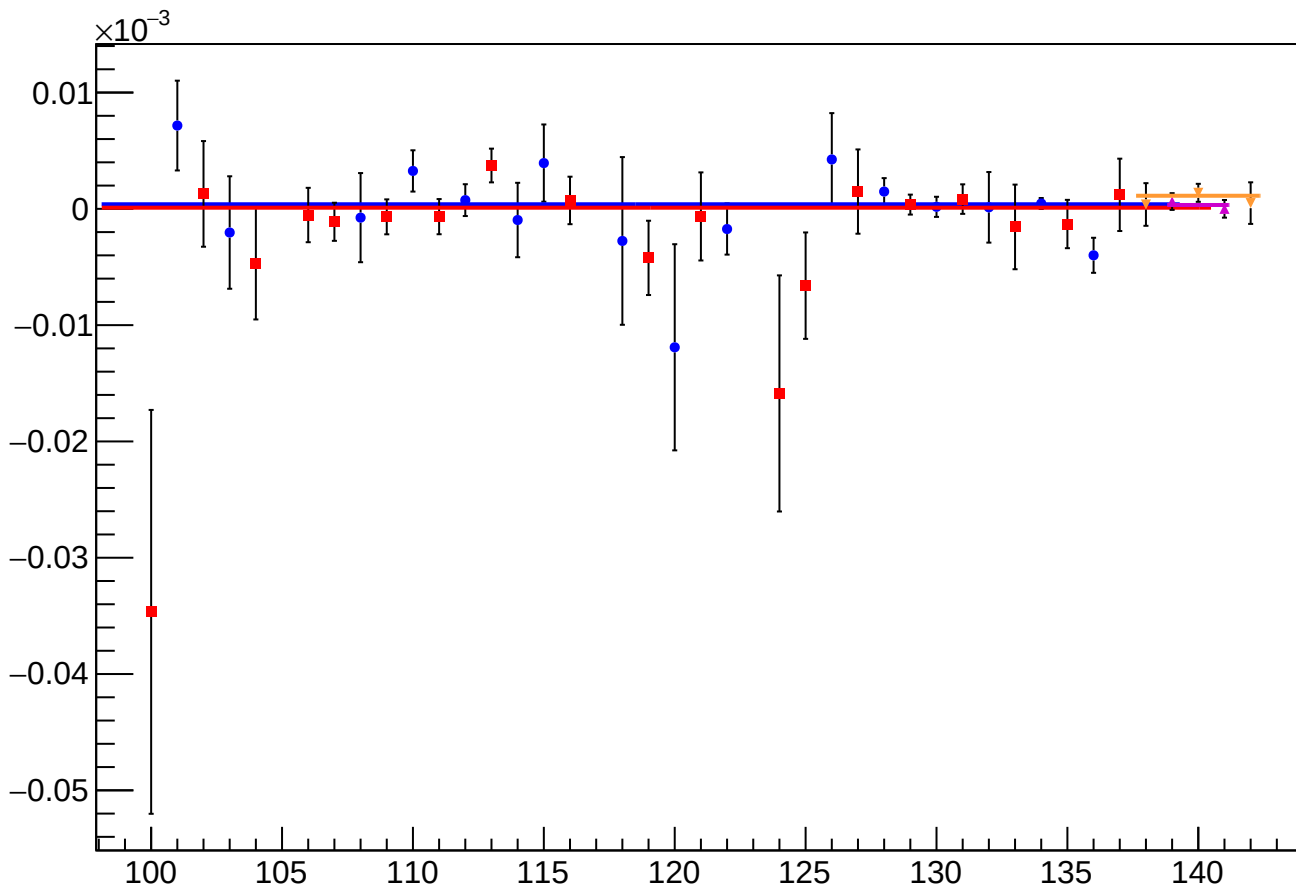
Right: 24.427 $\pm$ 0.005 χ^2 /NDF: 4813744.3/34

In: 21.465 $\pm$ 0.006 χ^2 /NDF:2291169.8/17

Out: 20.461 $\pm$ 0.006 χ^2 /NDF:3882404.1/21

All: 20.951 $\pm$ 0.004 χ^2 /NDF: 6187997.4/39

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 20.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.4/1

Left: 0.000+/-0.000 χ^2/NDF : 1.6/4

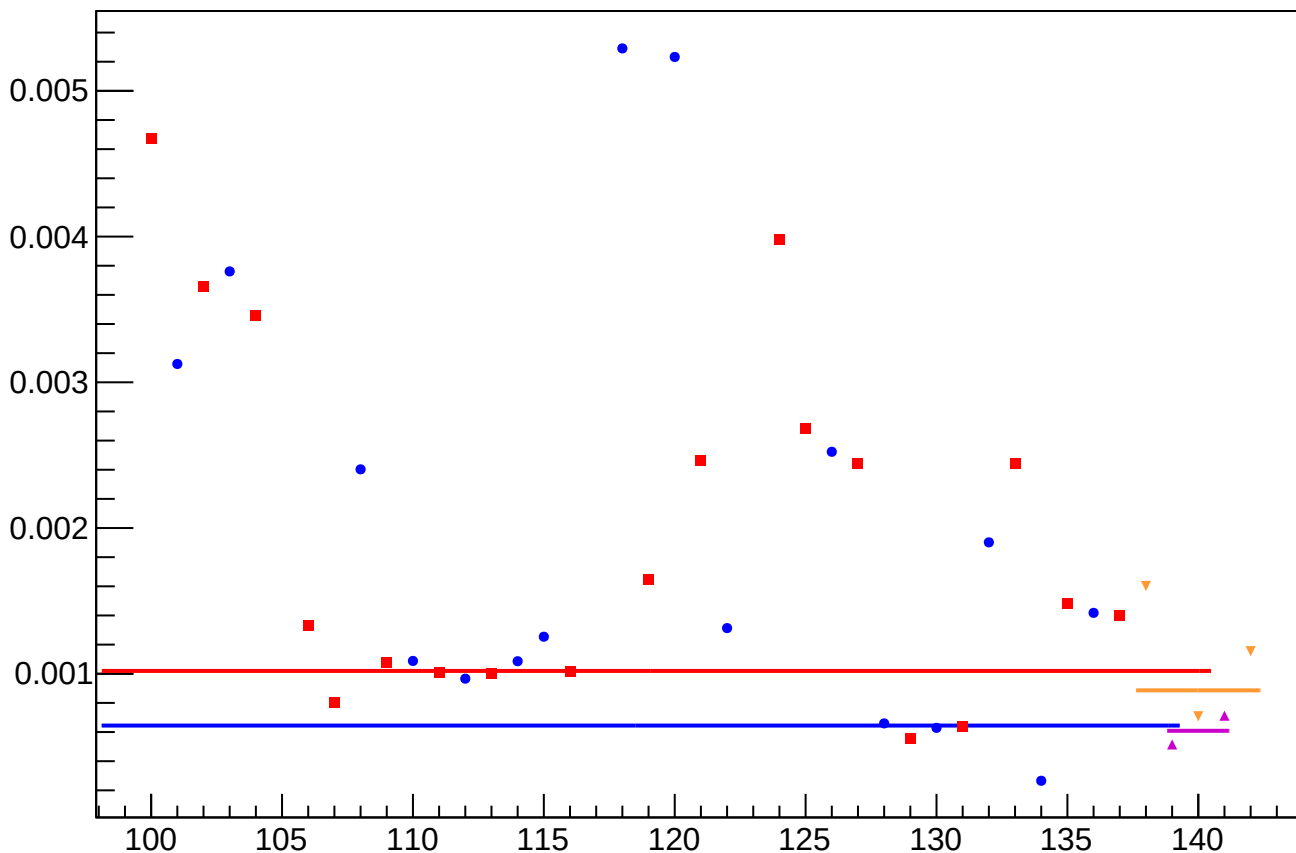
Right: 0.000+/-0.000 χ^2/NDF : 41.6/34

In: 0.000+/-0.000 χ^2/NDF : 21.2/17

Out: 0.000+/-0.000 χ^2/NDF : 22.5/21

All: 0.000+/-0.000 χ^2/NDF : 43.7/39

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 6575652.3/15

Left Out: 0.001+/-0.000 χ^2/NDF :455902.8/2

Right Out: 0.001+/-0.000 χ^2/NDF : 3662501.2/18

Left In: 0.001+/-0.000 χ^2/NDF :71067.3/1

Left: 0.001+/-0.000 χ^2/NDF : 743602.5/4

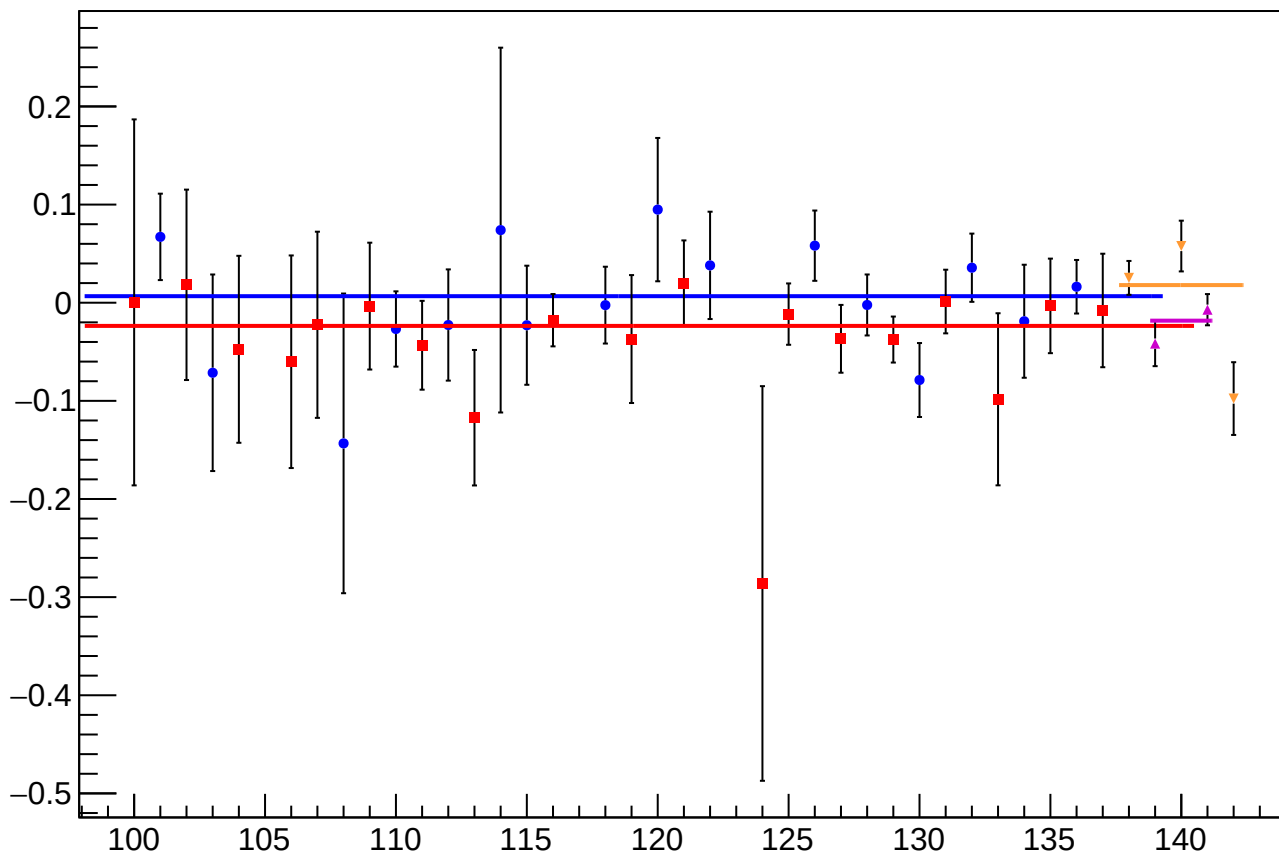
Right: 0.001+/-0.000 χ^2/NDF : 11121544.1/34

In: 0.001+/-0.000 χ^2/NDF :6653371.3/17

Out: 0.001+/-0.000 χ^2/NDF :4173857.9/21

All: 0.001+/-0.000 χ^2/NDF : 11900762.9/39

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.007 ± 0.011 $\chi^2/\text{NDF}: 15.0/15$

Left Out: 0.018 ± 0.013 $\chi^2/\text{NDF}: 12.3/2$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.018 ± 0.013 $\chi^2/\text{NDF}: 1.5/1$

Left: -0.001 ± 0.009 $\chi^2/\text{NDF}: 17.6/4$

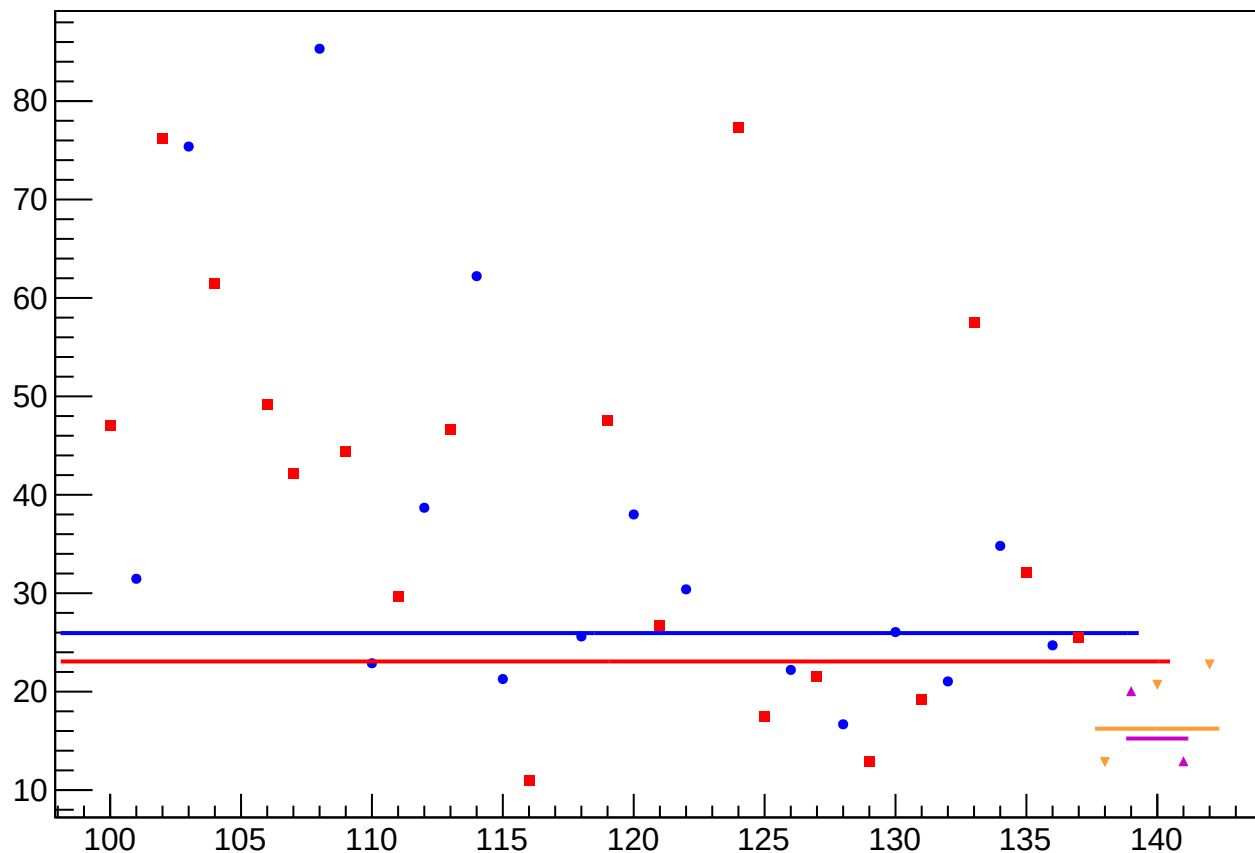
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.004 ± 0.008 $\chi^2/\text{NDF}: 18.6/17$

Out: -0.008 ± 0.008 $\chi^2/\text{NDF}: 25.8/21$

All: -0.006 ± 0.006 $\chi^2/\text{NDF}: 44.5/39$

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.950 $\pm$ 0.008 χ^2/NDF : 1381591.4/15

Left Out: 16.233 $\pm$ 0.009 χ^2/NDF :198814.1/2

Right Out: 23.066 $\pm$ 0.007 χ^2/NDF : 3360688.5/18

Left In: 15.237 $\pm$ 0.009 χ^2/NDF :129722.8/1

Left: 15.723 $\pm$ 0.007 χ^2/NDF : 334202.4/4

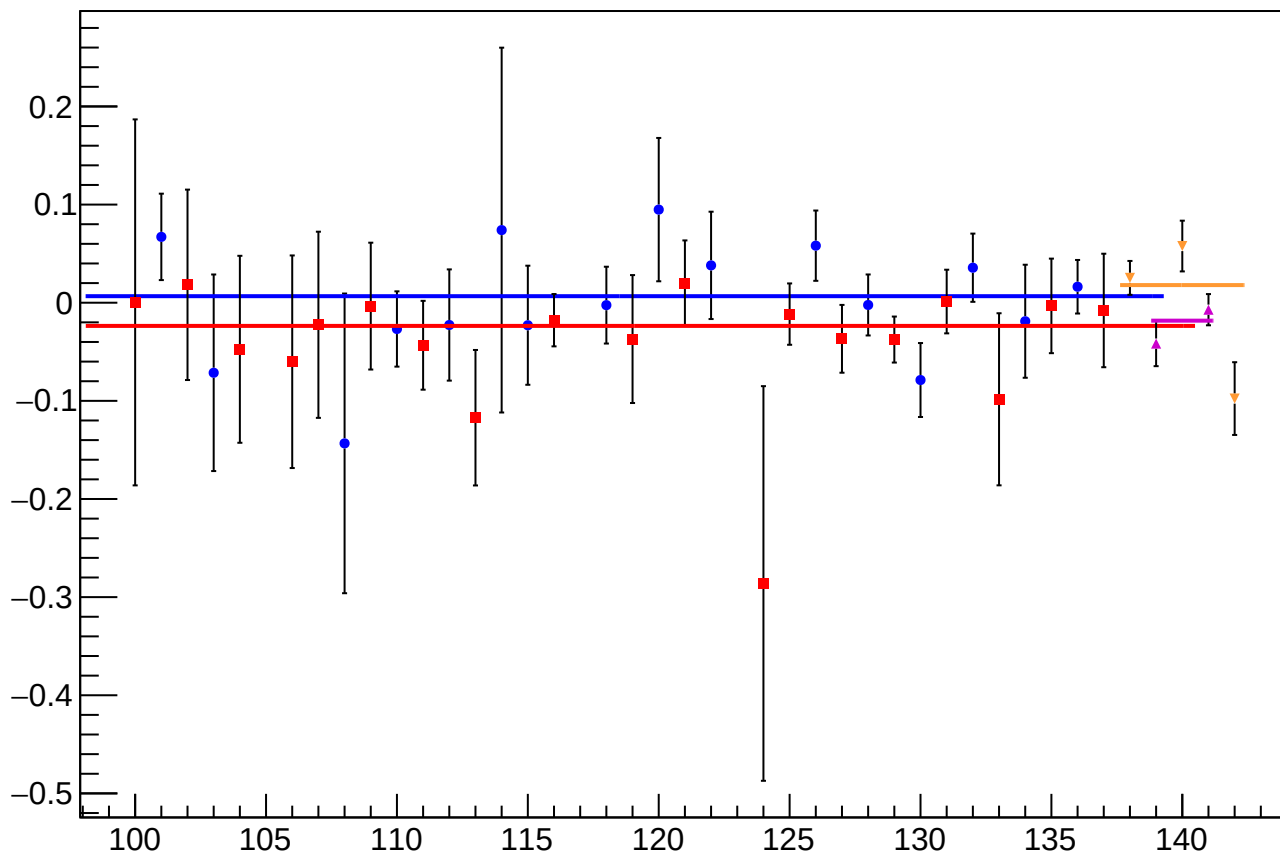
Right: 24.428 $\pm$ 0.005 χ^2/NDF : 4813518.6/34

In: 21.466 $\pm$ 0.006 χ^2/NDF :2291085.5/17

Out: 20.461 $\pm$ 0.006 χ^2/NDF :3882181.3/21

All: 20.951 $\pm$ 0.004 χ^2/NDF : 6187682.4/39

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.007 ± 0.011 $\chi^2/\text{NDF}: 15.0/15$

Left Out: 0.018 ± 0.013 $\chi^2/\text{NDF}: 12.3/2$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.018 ± 0.013 $\chi^2/\text{NDF}: 1.5/1$

Left: -0.001 ± 0.009 $\chi^2/\text{NDF}: 17.6/4$

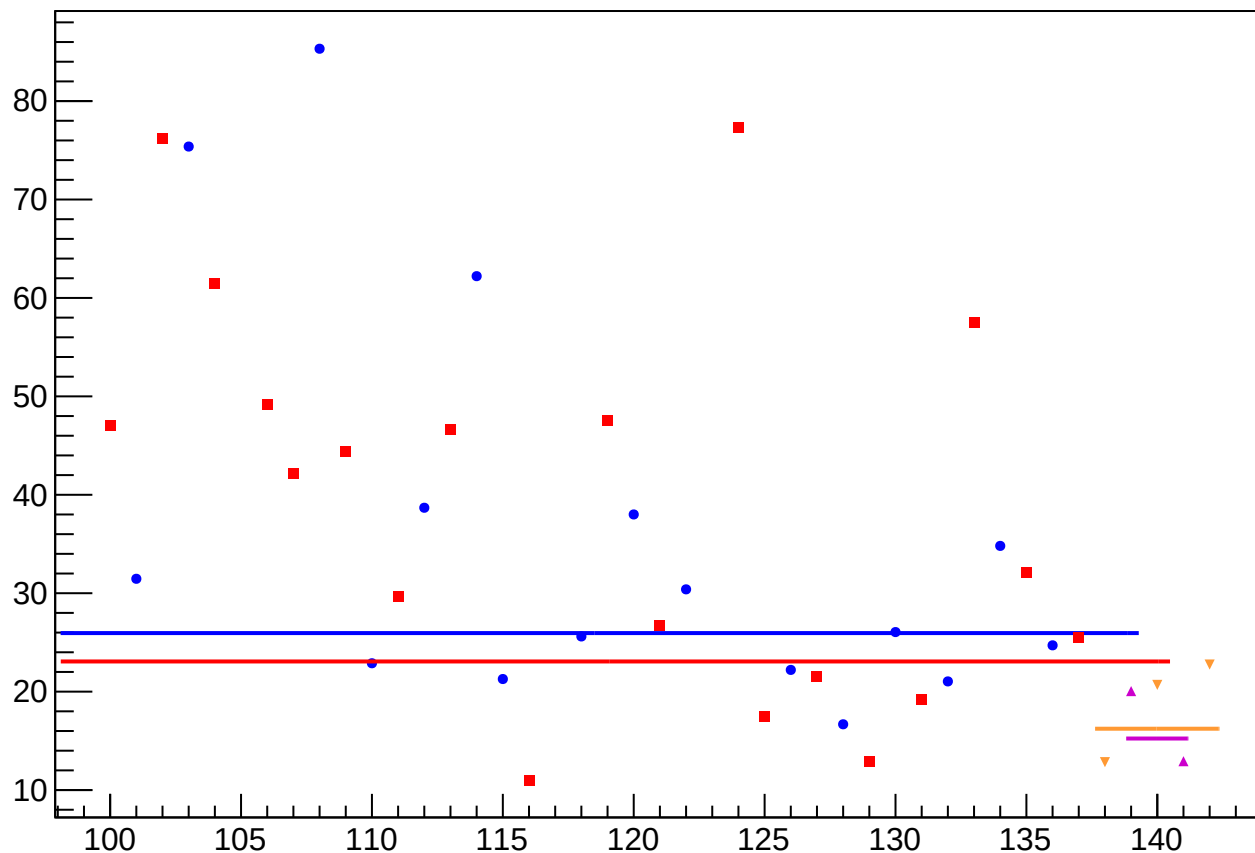
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.004 ± 0.008 $\chi^2/\text{NDF}: 18.6/17$

Out: -0.008 ± 0.008 $\chi^2/\text{NDF}: 25.8/21$

All: -0.006 ± 0.006 $\chi^2/\text{NDF}: 44.5/39$

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.950 $\pm$ 0.008 χ^2 /NDF: 1381591.4/15

Left Out: 16.233 $\pm$ 0.009 χ^2 /NDF:198814.1/2

Right Out: 23.066 $\pm$ 0.007 χ^2 /NDF: 3360688.5/18

Left In: 15.237 $\pm$ 0.009 χ^2 /NDF:129722.8/1

Left: 15.723 $\pm$ 0.007 χ^2 /NDF: 334202.4/4

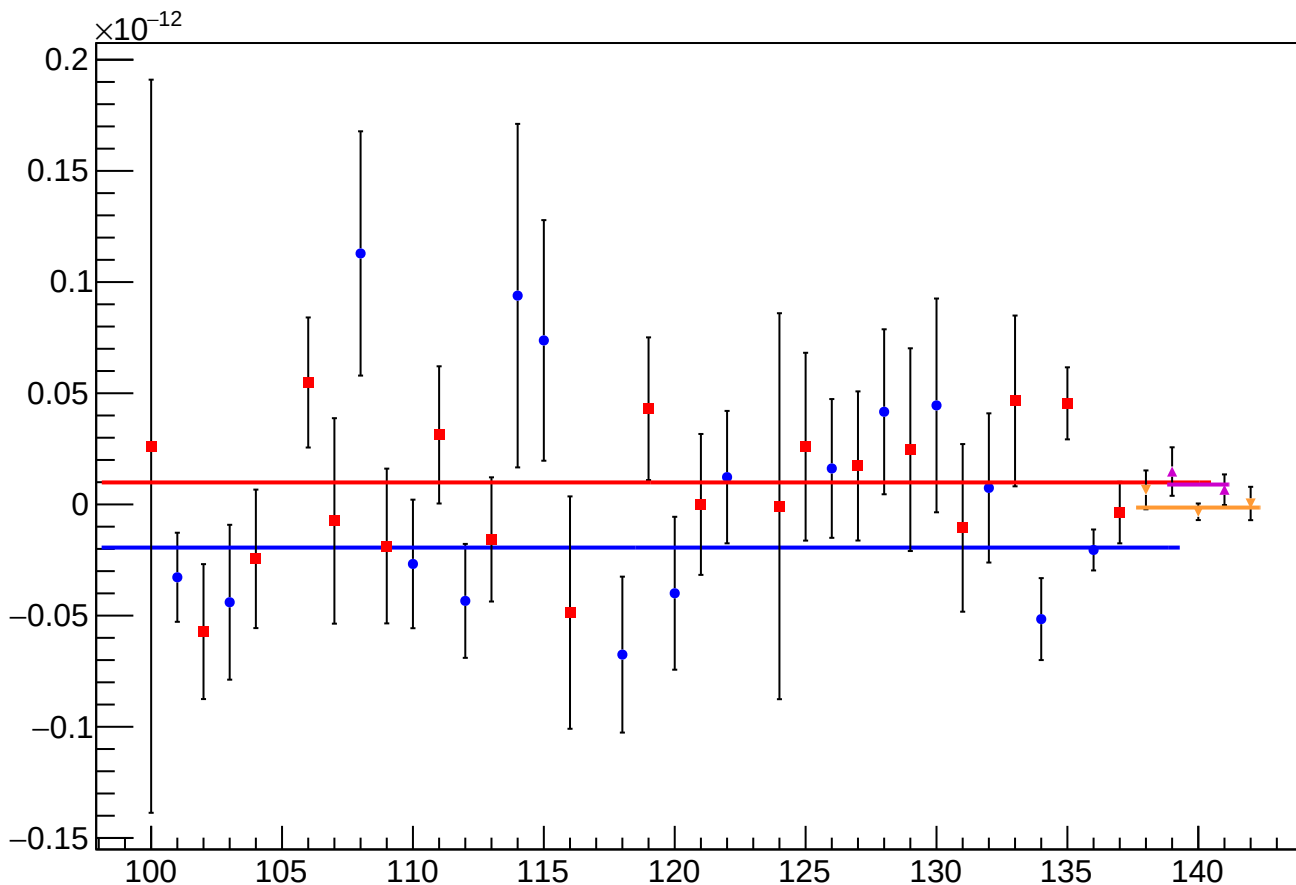
Right: 24.428 $\pm$ 0.005 χ^2 /NDF: 4813518.6/34

In: 21.466 $\pm$ 0.006 χ^2 /NDF:2291085.5/17

Out: 20.461 $\pm$ 0.006 χ^2 /NDF:3882181.3/21

All: 20.951 $\pm$ 0.004 χ^2 /NDF: 6187682.4/39

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 25.7/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 20.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.4/1

Left: 0.000+/-0.000 χ^2/NDF : 4.0/4

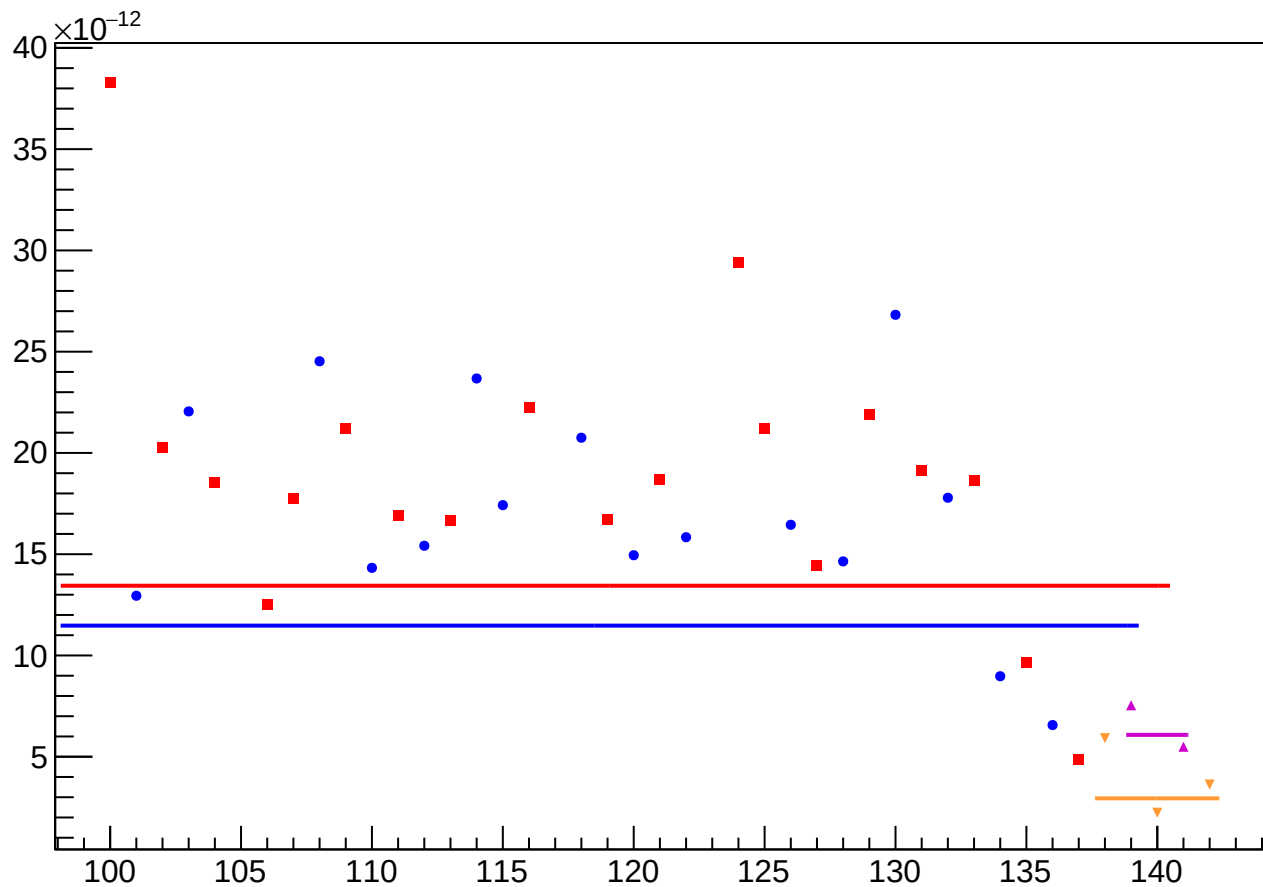
Right: -0.000+/-0.000 χ^2/NDF : 56.4/34

In: -0.000+/-0.000 χ^2/NDF : 37.5/17

Out: 0.000+/-0.000 χ^2/NDF : 23.8/21

All: -0.000+/-0.000 χ^2/NDF : 62.4/39

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1598593.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 320382.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1672848.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 50281.8/1

Left: 0.000+/-0.000 χ^2/NDF : 819999.5/4

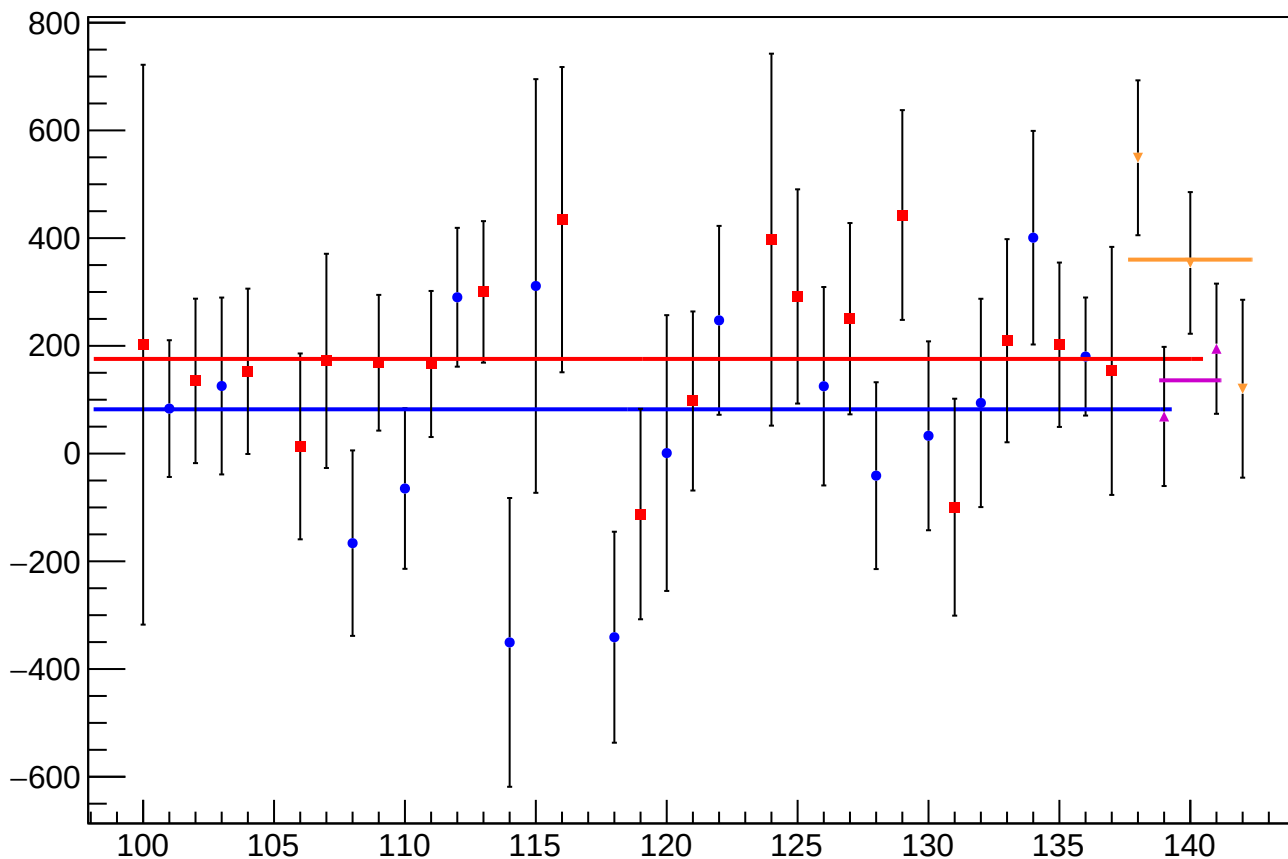
Right: 0.000+/-0.000 χ^2/NDF : 3365640.7/34

In: 0.000+/-0.000 χ^2/NDF : 2475973.6/17

Out: 0.000+/-0.000 χ^2/NDF : 5952179.8/21

All: 0.000+/-0.000 χ^2/NDF : 9618560.9/39

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 82.196+/-42.133 χ^2/NDF : 18.4/15

Left Out: 360.097+/-83.661 χ^2/NDF : 3.8/2

Right Out: 175.732+/-40.673 χ^2/NDF : 9.9/18

Left In: 135.996+/-88.249 χ^2/NDF : 0.5/1

Left: 254.023+/-60.715 χ^2/NDF : 7.7/4

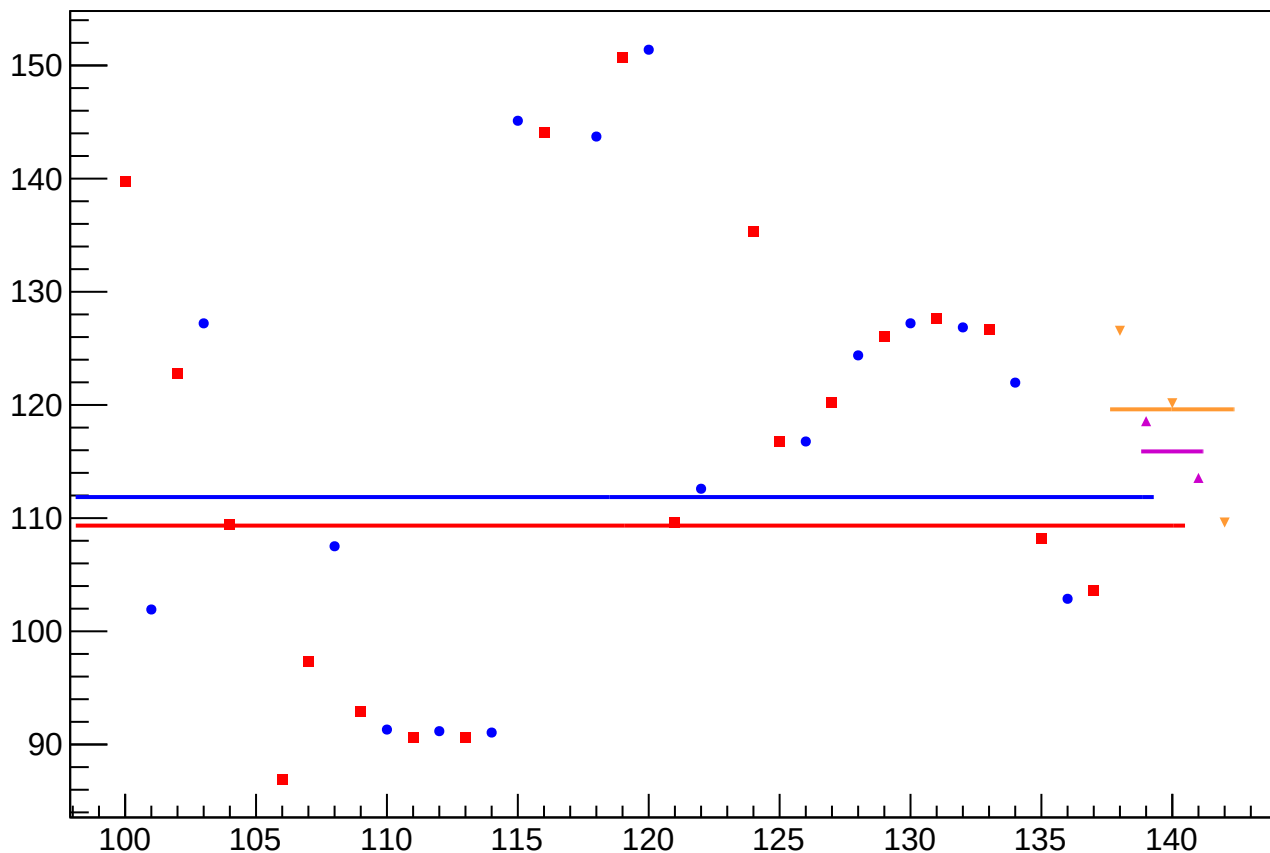
Right: 130.613+/-29.263 χ^2/NDF : 30.8/34

In: 92.183+/-38.022 χ^2/NDF : 19.2/17

Out: 210.977+/-36.579 χ^2/NDF : 17.6/21

All: 153.877+/-26.361 χ^2/NDF : 41.9/39

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 111.862 $\pm$ 0.030 χ^2 /NDF: 306023.8/15

Left Out: 119.614 $\pm$ 0.059 χ^2 /NDF:12029.5/2

Right Out: 109.340 $\pm$ 0.029 χ^2 /NDF: 367219.9/18

Left In: 115.895 $\pm$ 0.062 χ^2 /NDF:1606.7/1

Left: 117.853 $\pm$ 0.043 χ^2 /NDF: 15506.6/4

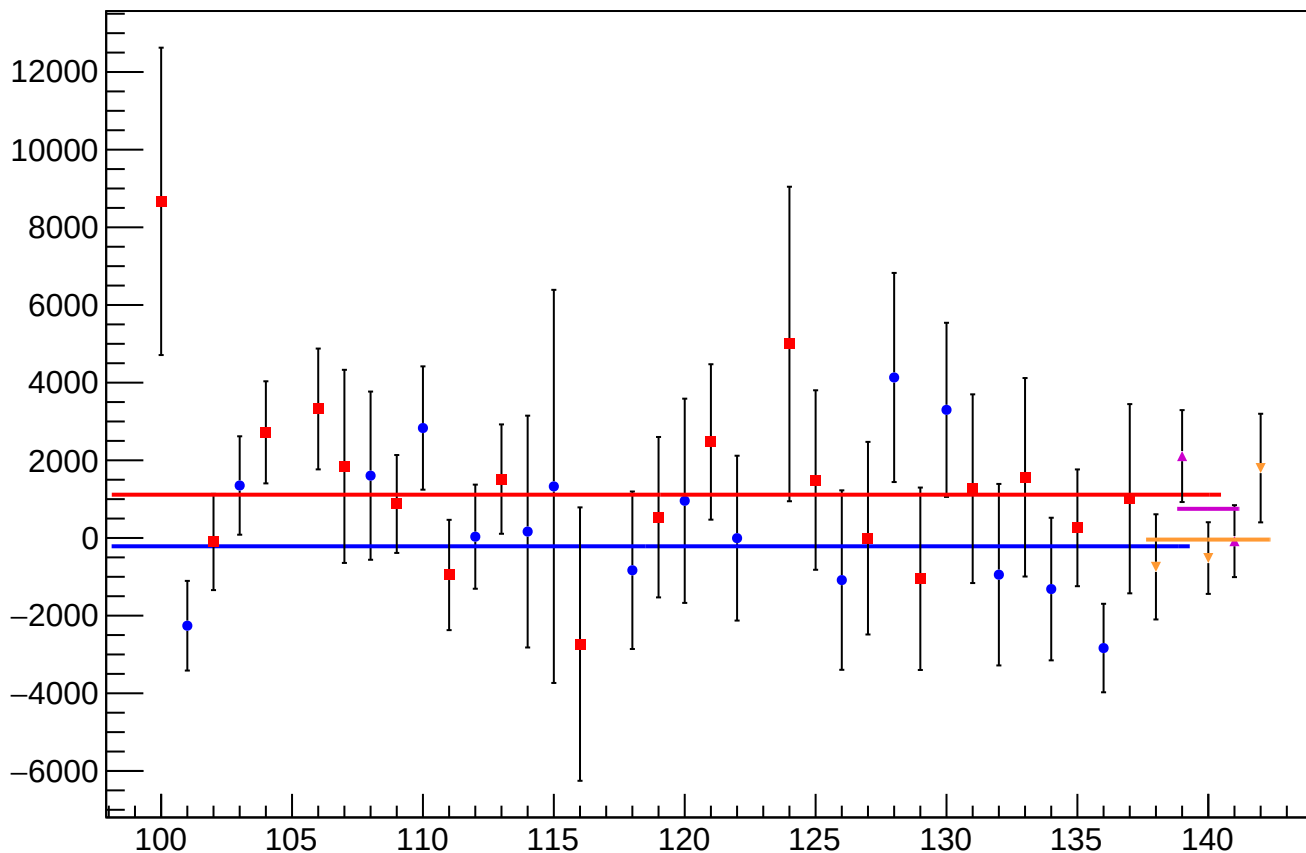
Right: 110.557 $\pm$ 0.021 χ^2 /NDF: 676952.3/34

In: 112.611 $\pm$ 0.027 χ^2 /NDF:311031.7/17

Out: 111.304 $\pm$ 0.026 χ^2 /NDF:403641.8/21

All: 111.932 $\pm$ 0.019 χ^2 /NDF: 715899.8/39

asym_sam_48_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -214.187+/-443.962 χ^2/NDF : 20.4/15

Left Out: -41.556+/-669.527 χ^2/NDF : 2.3/2

Right Out: 1114.700+/-423.039 χ^2/NDF : 14.5/18

Left In: 750.548+/-729.501 χ^2/NDF : 2.1/1

Left: 320.602+/-493.269 χ^2/NDF : 5.0/4

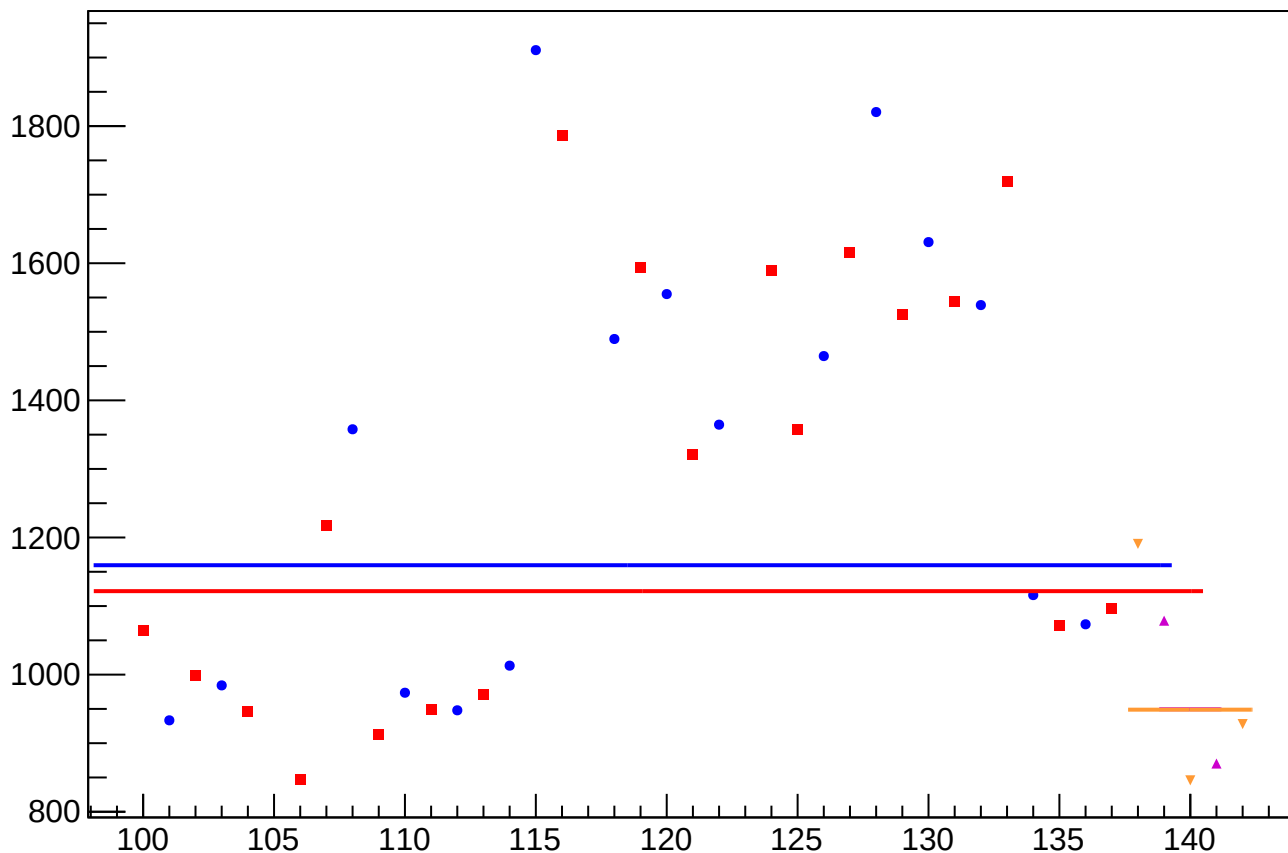
Right: 482.307+/-306.263 χ^2/NDF : 39.7/34

In: 46.554+/-379.251 χ^2/NDF : 23.8/17

Out: 784.795+/-357.631 χ^2/NDF : 18.9/21

All: 437.315+/-260.191 χ^2/NDF : 44.8/39

asym_sam_48_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1159.567+/-0.314 χ^2/NDF : 683693.3/15

Left Out: 948.894+/-0.473 χ^2/NDF : 89141.9/2

Right Out: 1121.752+/-0.299 χ^2/NDF : 782273.3/18

Left In: 949.483+/-0.516 χ^2/NDF : 38432.3/1

Left: 949.163+/-0.349 χ^2/NDF : 127575.0/4

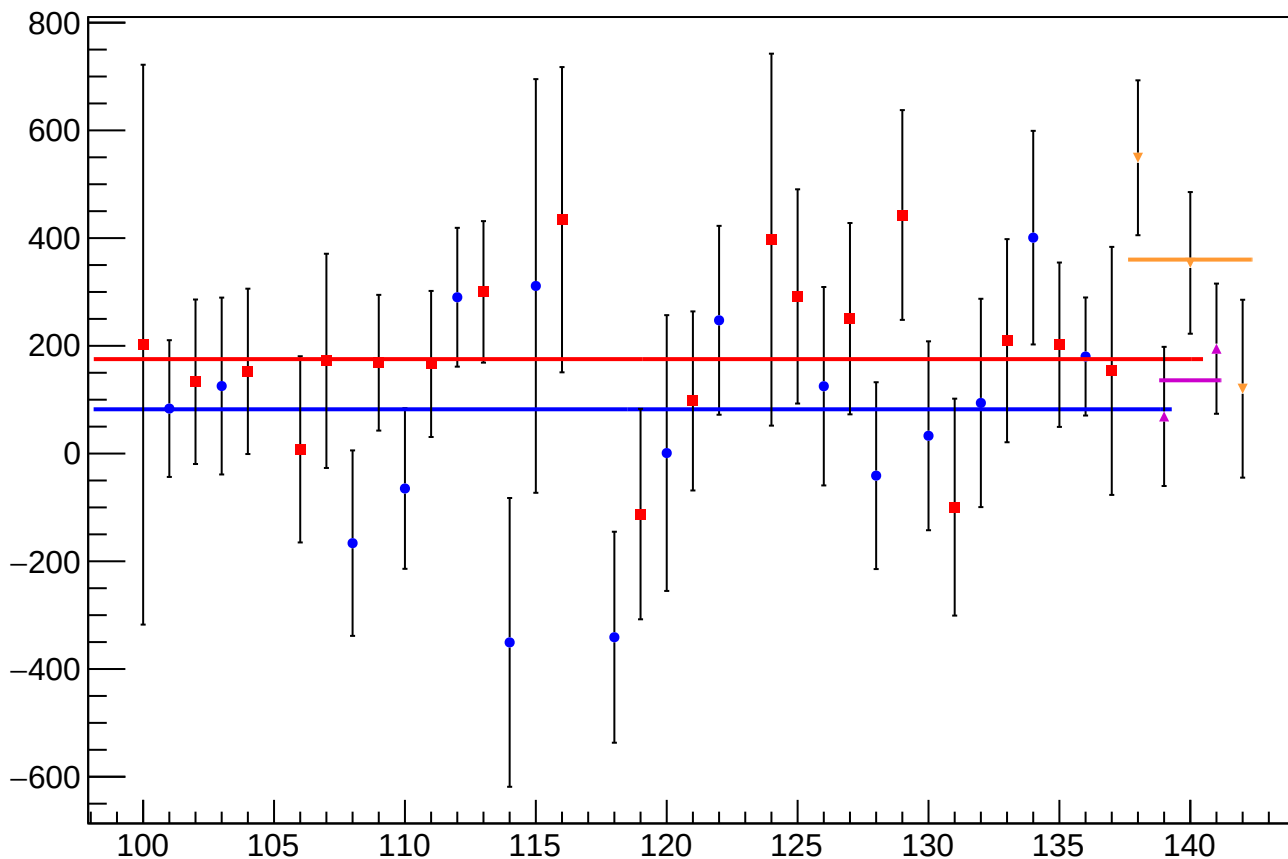
Right: 1139.747+/-0.217 χ^2/NDF : 1473571.5/34

In: 1102.787+/-0.268 χ^2/NDF : 843164.8/17

Out: 1072.432+/-0.253 χ^2/NDF : 966690.4/21

All: 1086.720+/-0.184 χ^2/NDF : 1816637.2/39

cor_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 82.185 $\pm$ 42.133 χ^2 /NDF: 18.4/15

Left Out: 360.106 $\pm$ 83.661 χ^2 /NDF:3.8/2

Right Out: 175.338 $\pm$ 40.678 χ^2 /NDF: 9.9/18

Left In: 136.008 $\pm$ 88.249 χ^2 /NDF:0.5/1

Left: 254.033 $\pm$ 60.715 χ^2 /NDF: 7.7/4

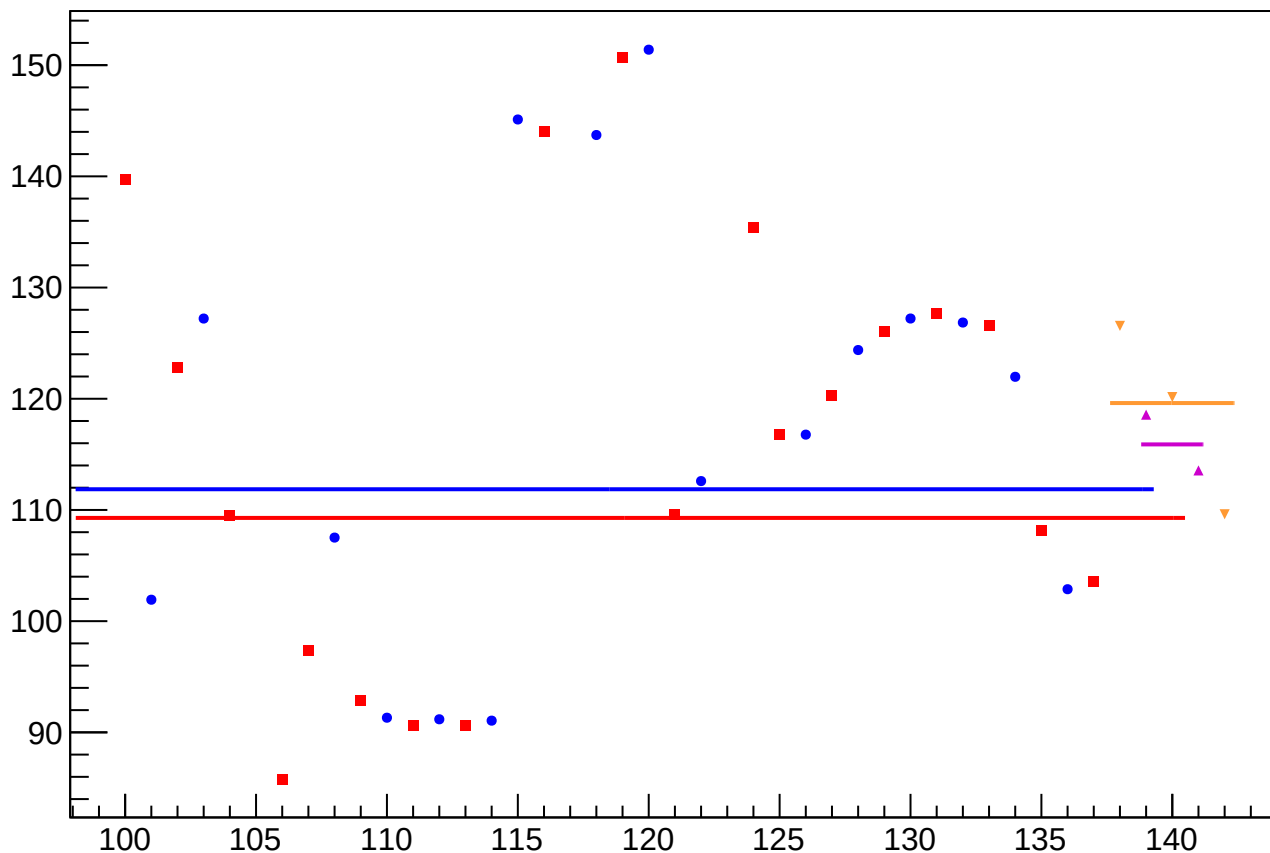
Right: 130.398 $\pm$ 29.265 χ^2 /NDF: 30.8/34

In: 92.176 $\pm$ 38.022 χ^2 /NDF:19.2/17

Out: 210.668 $\pm$ 36.583 χ^2 /NDF:17.7/21

All: 153.706 $\pm$ 26.362 χ^2 /NDF: 41.9/39

cor_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 111.862 $\pm$ 0.030 χ^2 /NDF: 306025.0/15

Left Out: 119.614 $\pm$ 0.059 χ^2 /NDF:12029.5/2

Right Out: 109.284 $\pm$ 0.029 χ^2 /NDF: 370711.7/18

Left In: 115.895 $\pm$ 0.062 χ^2 /NDF:1606.7/1

Left: 117.853 $\pm$ 0.043 χ^2 /NDF: 15506.6/4

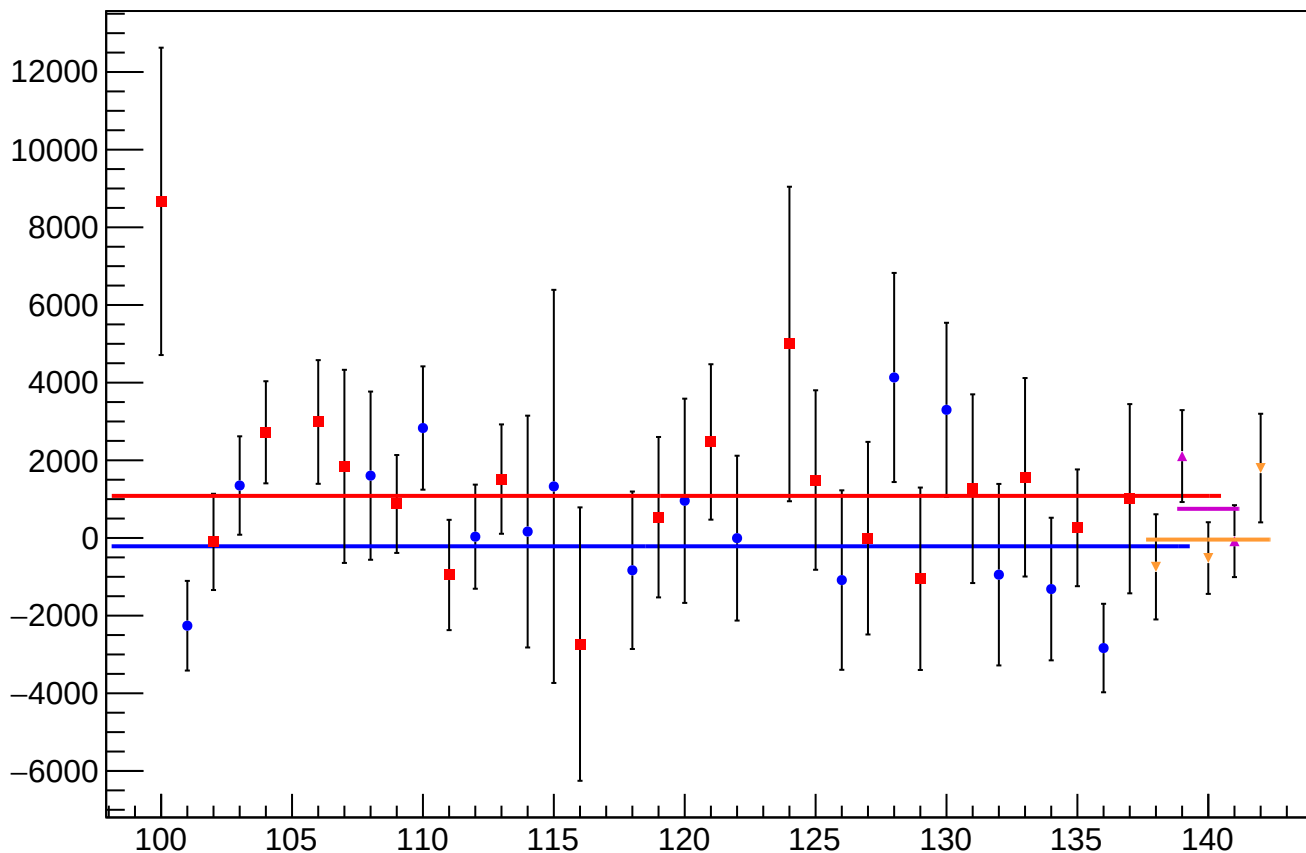
Right: 110.528 $\pm$ 0.021 χ^2 /NDF: 680611.7/34

In: 112.611 $\pm$ 0.027 χ^2 /NDF:311032.8/17

Out: 111.259 $\pm$ 0.026 χ^2 /NDF:407399.5/21

All: 111.909 $\pm$ 0.019 χ^2 /NDF: 719744.4/39

asym_sam_48_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -214.278+/-443.965 χ^2/NDF : 20.4/15

Left Out: -41.545+/-669.526 χ^2/NDF : 2.3/2

Right Out: 1083.943+/-423.774 χ^2/NDF : 13.9/18

Left In: 750.574+/-729.501 χ^2/NDF : 2.1/1

Left: 320.620+/-493.269 χ^2/NDF : 5.0/4

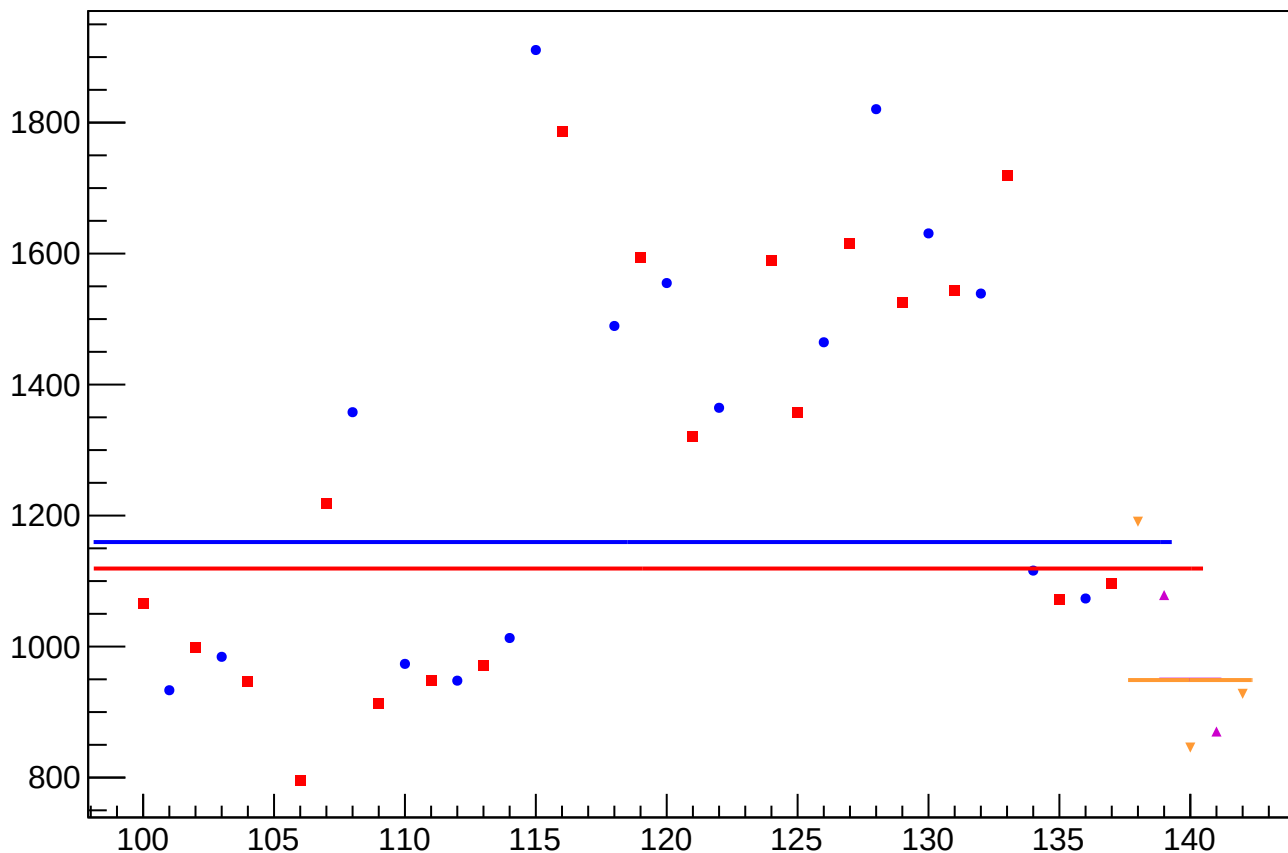
Right: 465.023+/-306.543 χ^2/NDF : 38.8/34

In: 46.497+/-379.253 χ^2/NDF : 23.8/17

Out: 762.018+/-358.075 χ^2/NDF : 18.2/21

All: 424.792+/-260.362 χ^2/NDF : 43.9/39

asym_sam_48_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1159.576+/-0.314 χ^2/NDF : 683662.2/15

Left Out: 948.893+/-0.473 χ^2/NDF : 89142.1/2

Right Out: 1119.156+/-0.300 χ^2/NDF : 803154.6/18

Left In: 949.483+/-0.516 χ^2/NDF : 38431.6/1

Left: 949.163+/-0.349 χ^2/NDF : 127574.4/4

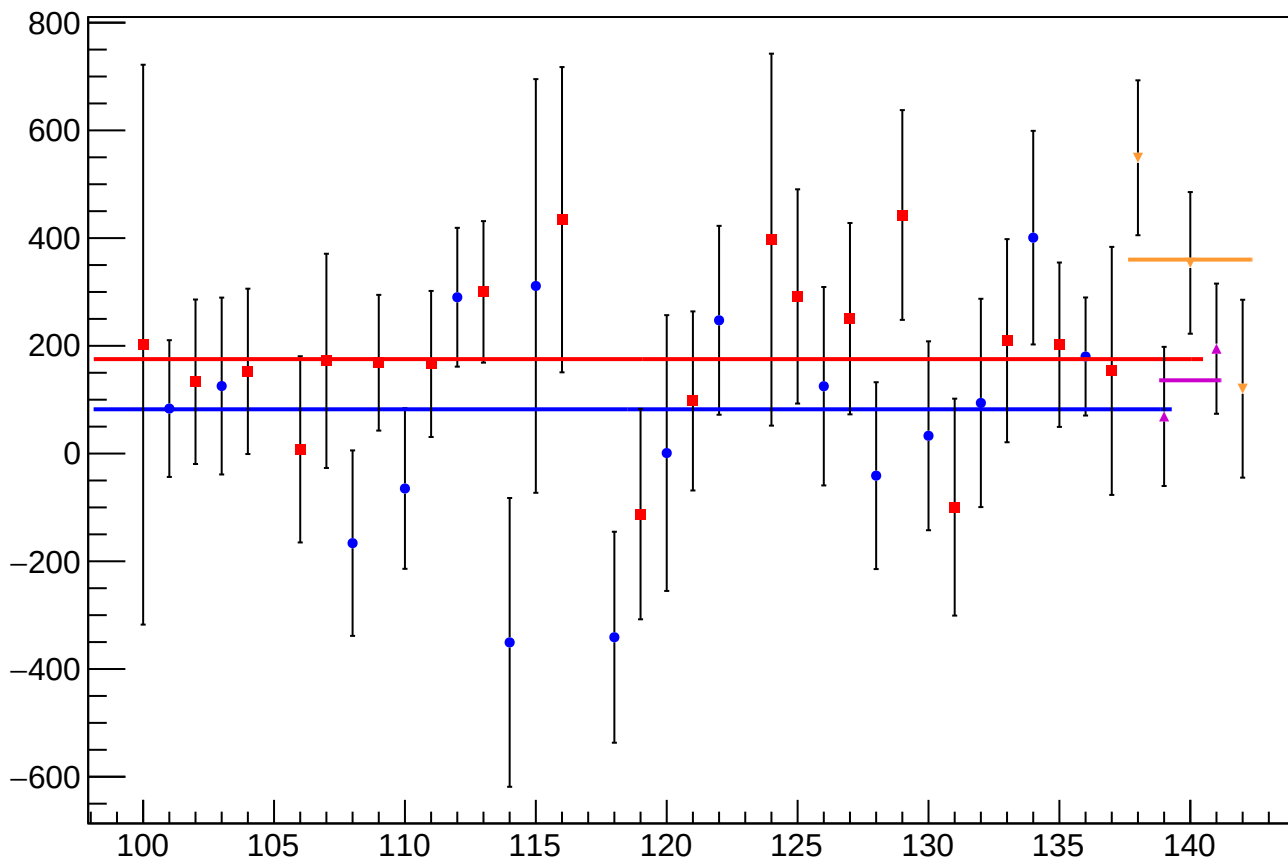
Right: 1138.426+/-0.217 χ^2/NDF : 1495491.5/34

In: 1102.793+/-0.268 χ^2/NDF : 843143.4/17

Out: 1070.455+/-0.253 χ^2/NDF : 984641.1/21

All: 1085.696+/-0.184 χ^2/NDF : 1835472.5/39

eigen_cor_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 82.185+/-42.133 χ^2/NDF : 18.4/15

Left Out: 360.106+/-83.661 χ^2/NDF : 3.8/2

Right Out: 175.338+/-40.678 χ^2/NDF : 9.9/18

Left In: 136.008+/-88.249 χ^2/NDF : 0.5/1

Left: 254.033+/-60.715 χ^2/NDF : 7.7/4

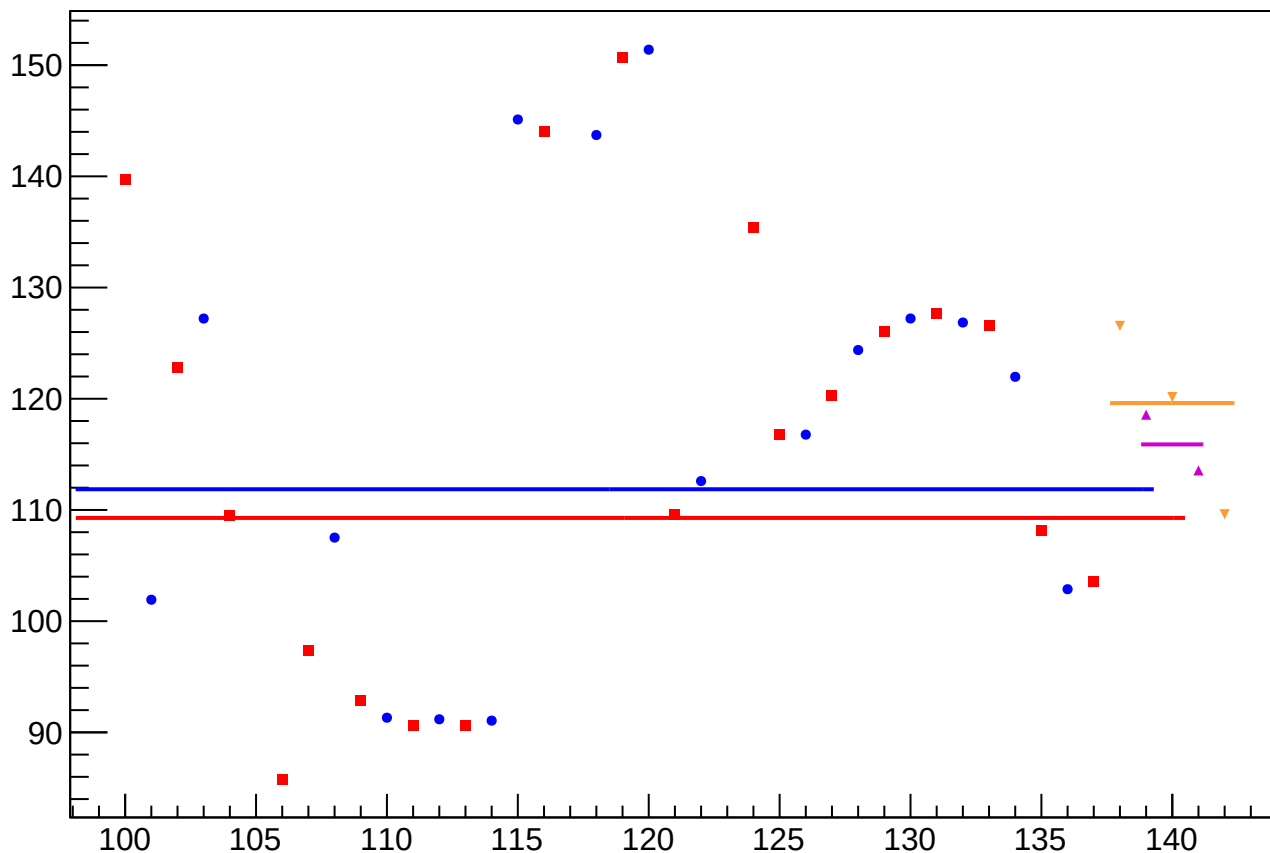
Right: 130.398+/-29.265 χ^2/NDF : 30.8/34

In: 92.176+/-38.022 χ^2/NDF : 19.2/17

Out: 210.668+/-36.583 χ^2/NDF : 17.7/21

All: 153.706+/-26.362 χ^2/NDF : 41.9/39

eigen_cor_asym_sam_48_dd_rms vs Slug, Sign Corrected



Left: 117.853 +/- 0.043 χ^2/NDF : 15506.6/4

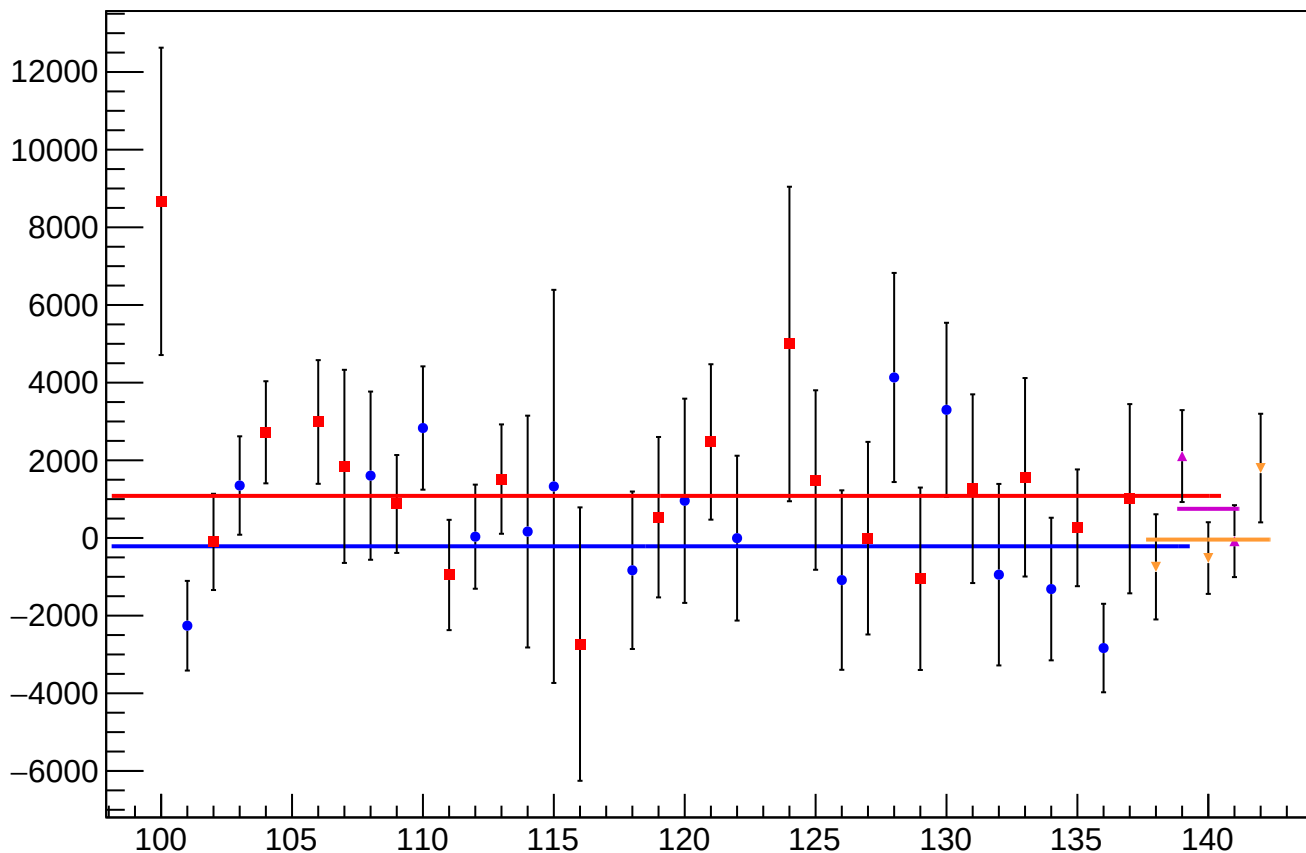
Right: 110.528 +/- 0.021 χ^2/NDF : 680611.7/34

In: 112.611 +/- 0.027 χ^2/NDF : 311032.8/17

Out: 111.259 +/- 0.026 χ^2/NDF : 407399.5/21

All: 111.909 +/- 0.019 χ^2/NDF : 719744.4/39

asym_sam_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -214.278+/-443.965 χ^2/NDF : 20.4/15

Left Out: -41.545+/-669.526 χ^2/NDF : 2.3/2

Right Out: 1083.943+/-423.774 χ^2/NDF : 13.9/18

Left In: 750.574+/-729.501 χ^2/NDF : 2.1/1

Left: 320.620+/-493.269 χ^2/NDF : 5.0/4

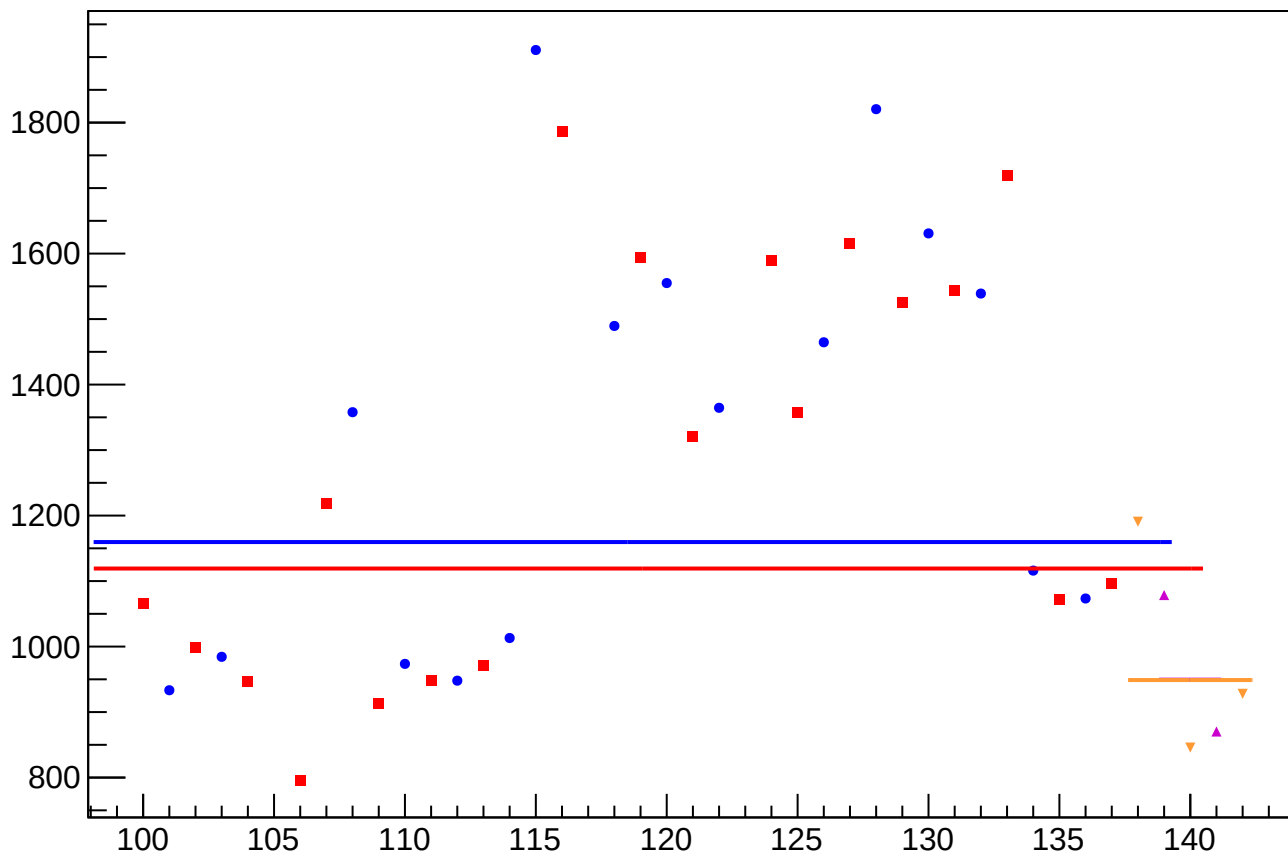
Right: 465.023+/-306.543 χ^2/NDF : 38.8/34

In: 46.497+/-379.253 χ^2/NDF : 23.8/17

Out: 762.018+/-358.075 χ^2/NDF : 18.2/21

All: 424.792+/-260.362 χ^2/NDF : 43.9/39

asym_sam_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1159.576+/-0.314 χ^2/NDF : 683662.2/15

Left Out: 948.893+/-0.473 χ^2/NDF : 89142.1/2

Right Out: 1119.156+/-0.300 χ^2/NDF : 803154.6/18

Left In: 949.483+/-0.516 χ^2/NDF : 38431.6/1

Left: 949.163+/-0.349 χ^2/NDF : 127574.4/4

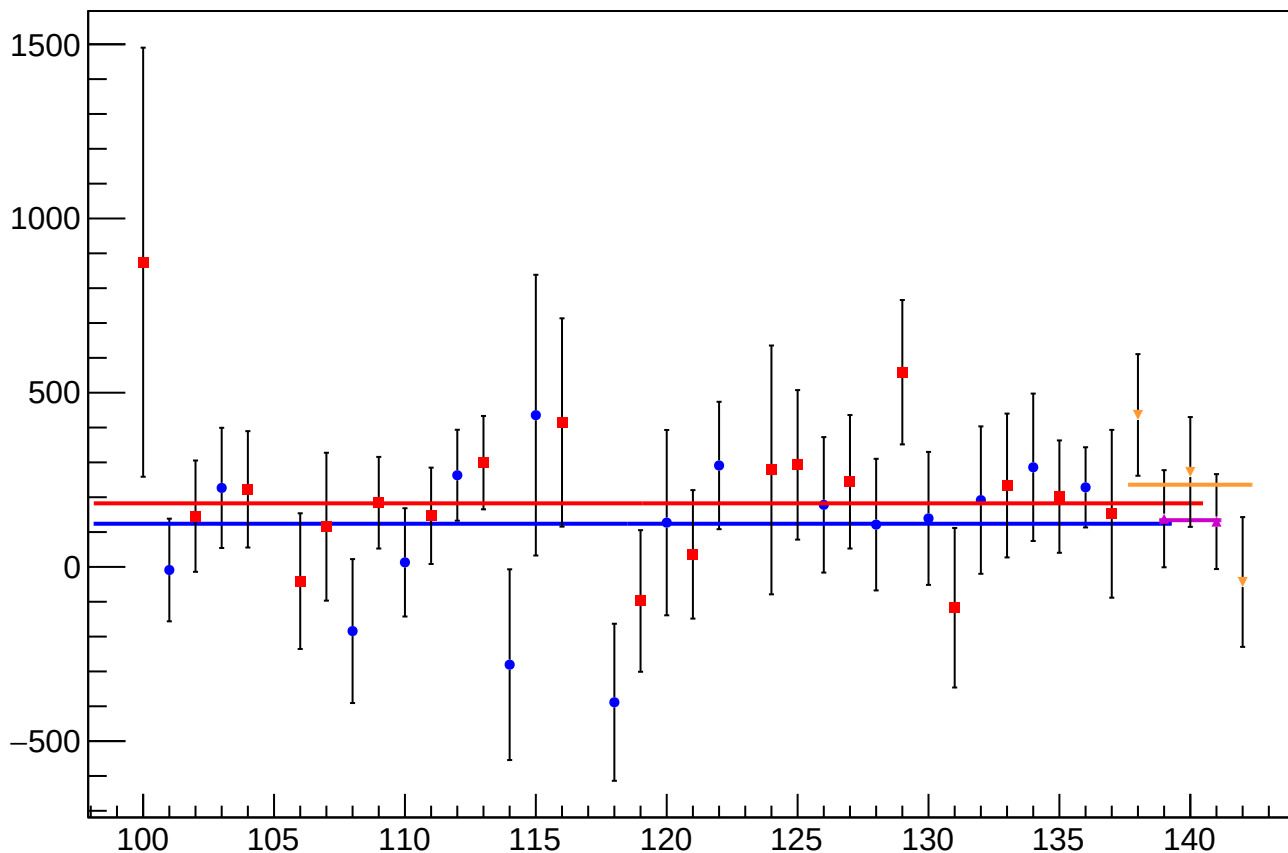
Right: 1138.426+/-0.217 χ^2/NDF : 1495491.5/34

In: 1102.793+/-0.268 χ^2/NDF : 843143.4/17

Out: 1070.455+/-0.253 χ^2/NDF : 984641.1/21

All: 1085.696+/-0.184 χ^2/NDF : 1835472.5/39

dit_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 123.892 $\pm$ 45.238 χ^2 /NDF: 15.4/15

Left Out: 235.889 $\pm$ 99.040 χ^2 /NDF:3.6/2

Right Out: 182.467 $\pm$ 43.224 χ^2 /NDF: 12.3/18

Left In: 134.094 $\pm$ 97.422 χ^2 /NDF:0.0/1

Left: 184.153 $\pm$ 69.453 χ^2 /NDF: 4.2/4

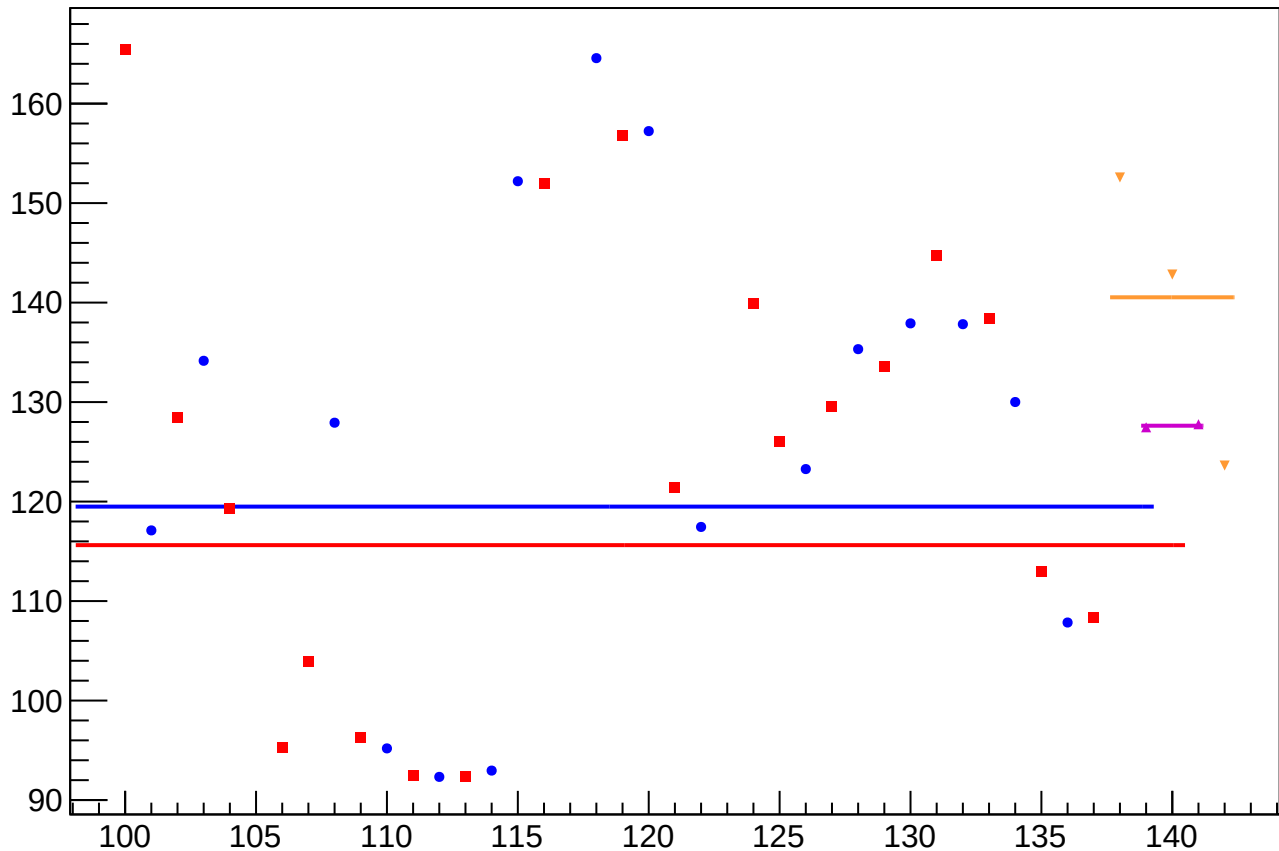
Right: 154.513 $\pm$ 31.252 χ^2 /NDF: 28.6/34

In: 125.702 $\pm$ 41.030 χ^2 /NDF:15.4/17

Out: 191.015 $\pm$ 39.616 χ^2 /NDF:16.2/21

All: 159.503 $\pm$ 28.500 χ^2 /NDF: 32.9/39

dit_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 119.495 $\pm$ 0.032 χ^2 /NDF: 380250.8/15

Left Out: 140.532 $\pm$ 0.070 χ^2 /NDF: 26436.4/2

Right Out: 115.622 $\pm$ 0.031 χ^2 /NDF: 426961.7/18

Left In: 127.626 $\pm$ 0.069 χ^2 /NDF: 4.9/1

Left: 133.973 $\pm$ 0.049 χ^2 /NDF: 43703.0/4

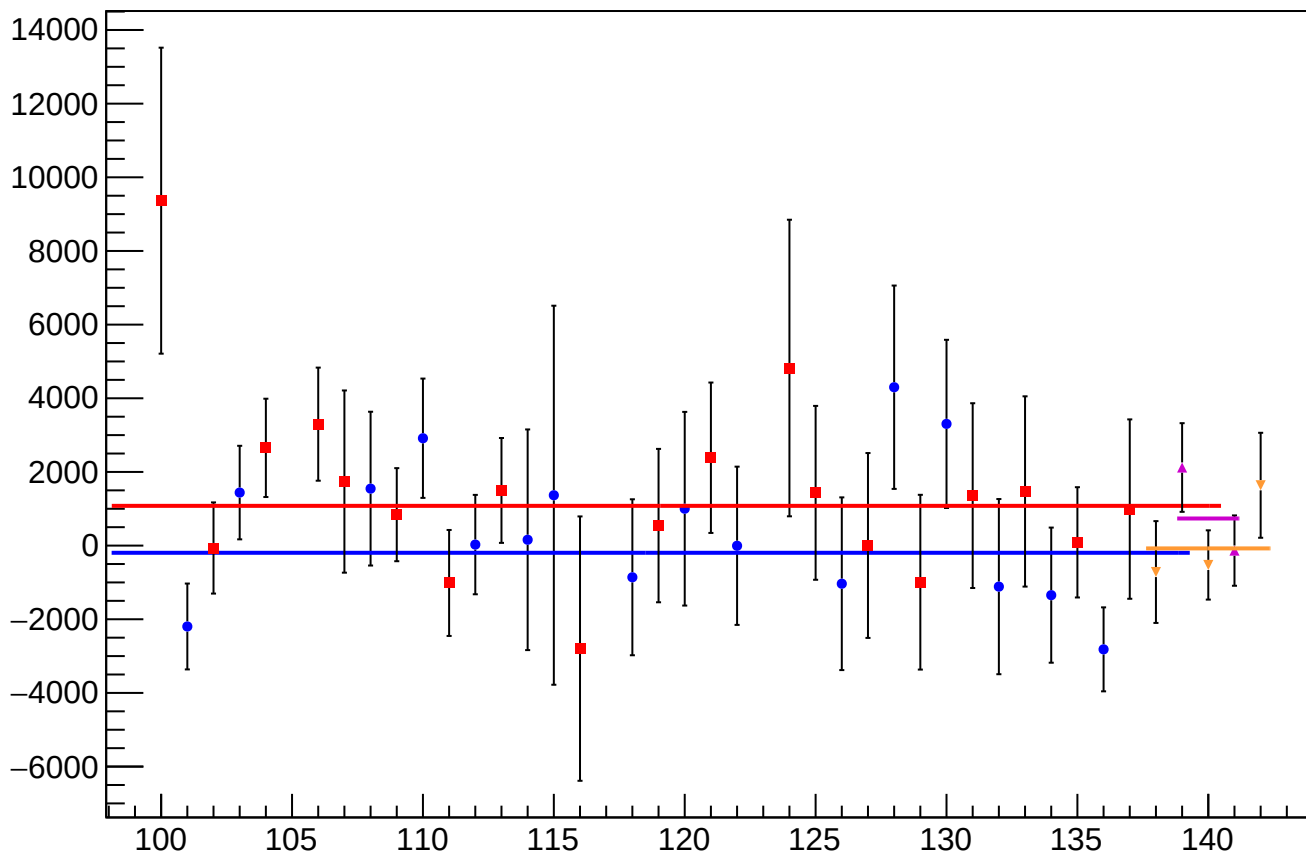
Right: 117.470 $\pm$ 0.022 χ^2 /NDF: 814875.1/34

In: 120.937 $\pm$ 0.029 χ^2 /NDF: 391716.5/17

Out: 119.607 $\pm$ 0.028 χ^2 /NDF: 559676.1/21

All: 120.249 $\pm$ 0.020 χ^2 /NDF: 952479.5/39

asym_sam_48_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -195.086+/-447.334 χ^2/NDF : 20.4/15

Left Out: -76.173+/-682.616 χ^2/NDF : 1.9/2

Right Out: 1079.393+/-425.950 χ^2/NDF : 14.6/18

Left In: 735.814+/-748.081 χ^2/NDF : 2.2/1

Left: 292.743+/-504.241 χ^2/NDF : 4.7/4

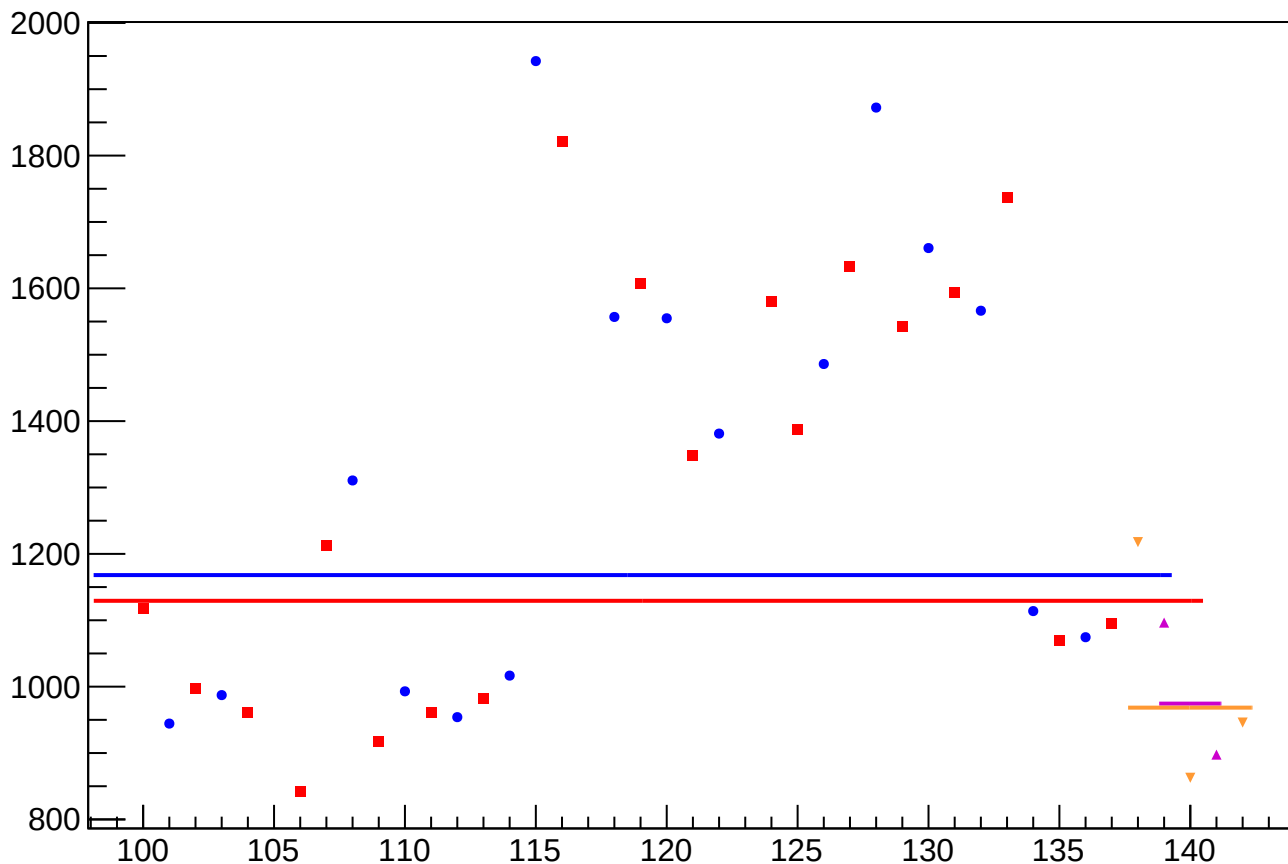
Right: 473.342+/-308.475 χ^2/NDF : 39.2/34

In: 50.106+/-383.928 χ^2/NDF : 23.7/17

Out: 755.545+/-361.368 χ^2/NDF : 18.5/21

All: 424.160+/-263.140 χ^2/NDF : 44.0/39

asym_sam_48_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1168.063+/-0.316 χ^2/NDF : 709363.8/15

Left Out: 968.391+/-0.483 χ^2/NDF : 90796.9/2

Right Out: 1129.316+/-0.301 χ^2/NDF : 807222.5/18

Left In: 974.437+/-0.529 χ^2/NDF : 33503.2/1

Left: 971.138+/-0.357 χ^2/NDF : 124371.4/4

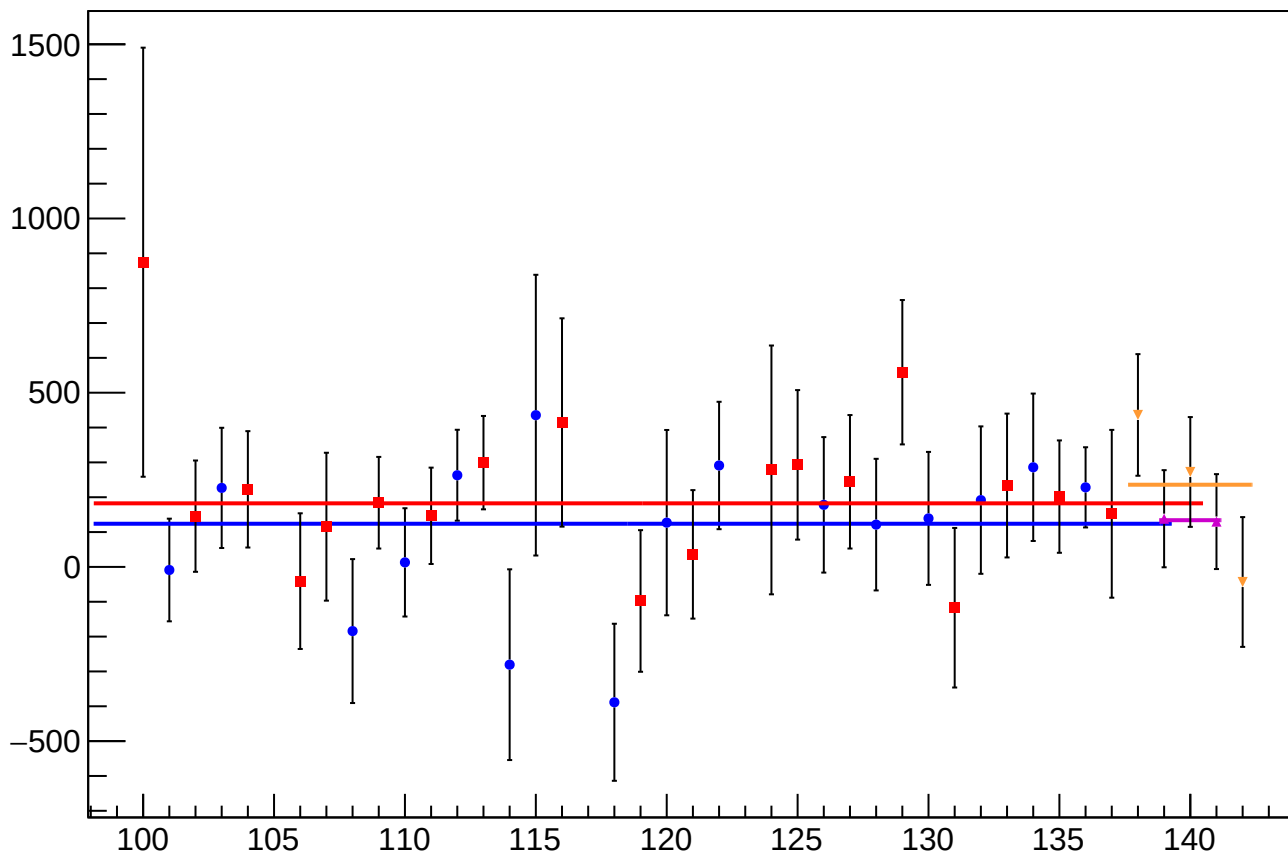
Right: 1147.741+/-0.218 χ^2/NDF : 1524455.8/34

In: 1117.063+/-0.271 χ^2/NDF : 841561.5/17

Out: 1084.217+/-0.256 χ^2/NDF : 978022.7/21

All: 1099.647+/-0.186 χ^2/NDF : 1827346.3/39

eigen_dit_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 123.895 $\pm$ 45.238 χ^2 /NDF: 15.4/15

Left Out: 235.892 $\pm$ 99.040 χ^2 /NDF:3.6/2

Right Out: 182.468 $\pm$ 43.224 χ^2 /NDF: 12.3/18

Left In: 134.093 $\pm$ 97.421 χ^2 /NDF:0.0/1

Left: 184.153 $\pm$ 69.453 χ^2 /NDF: 4.2/4

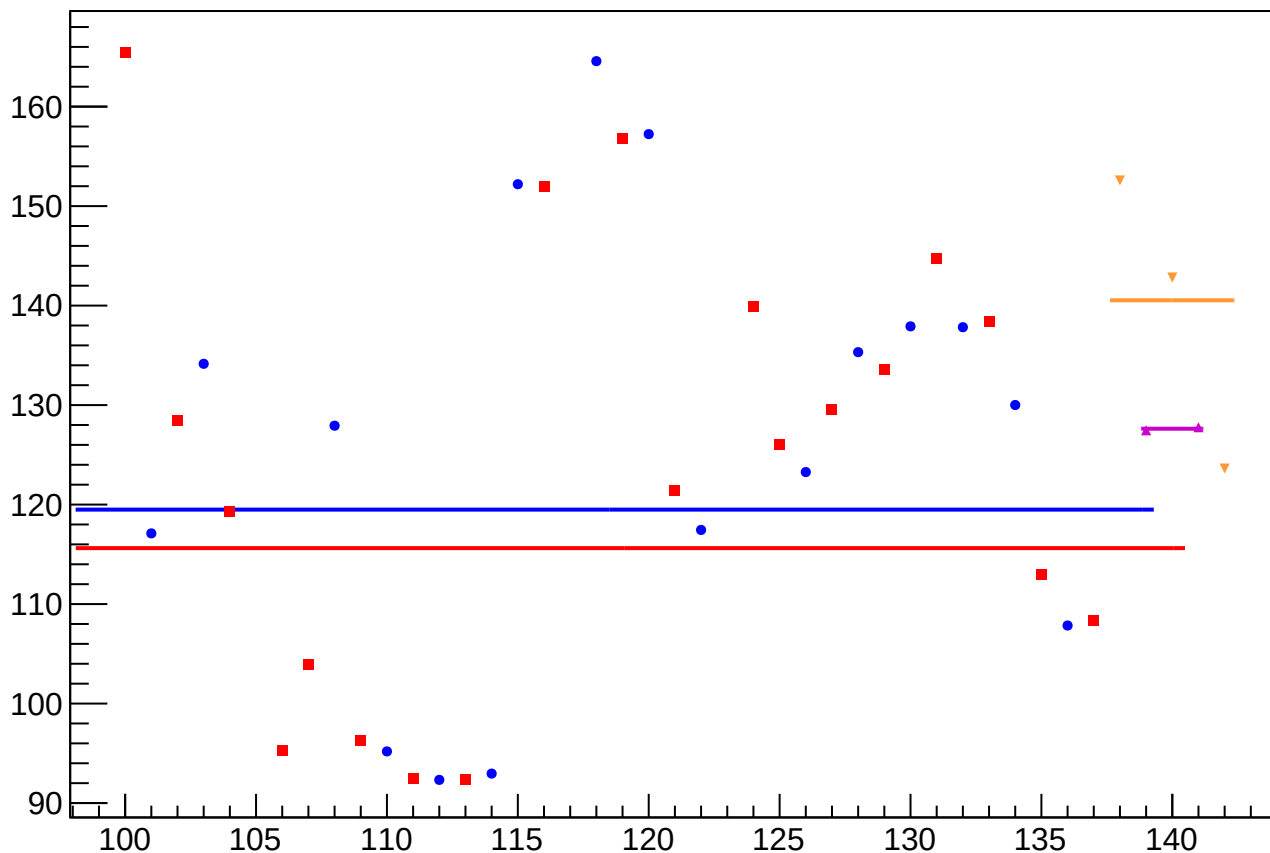
Right: 154.514 $\pm$ 31.252 χ^2 /NDF: 28.6/34

In: 125.704 $\pm$ 41.030 χ^2 /NDF:15.4/17

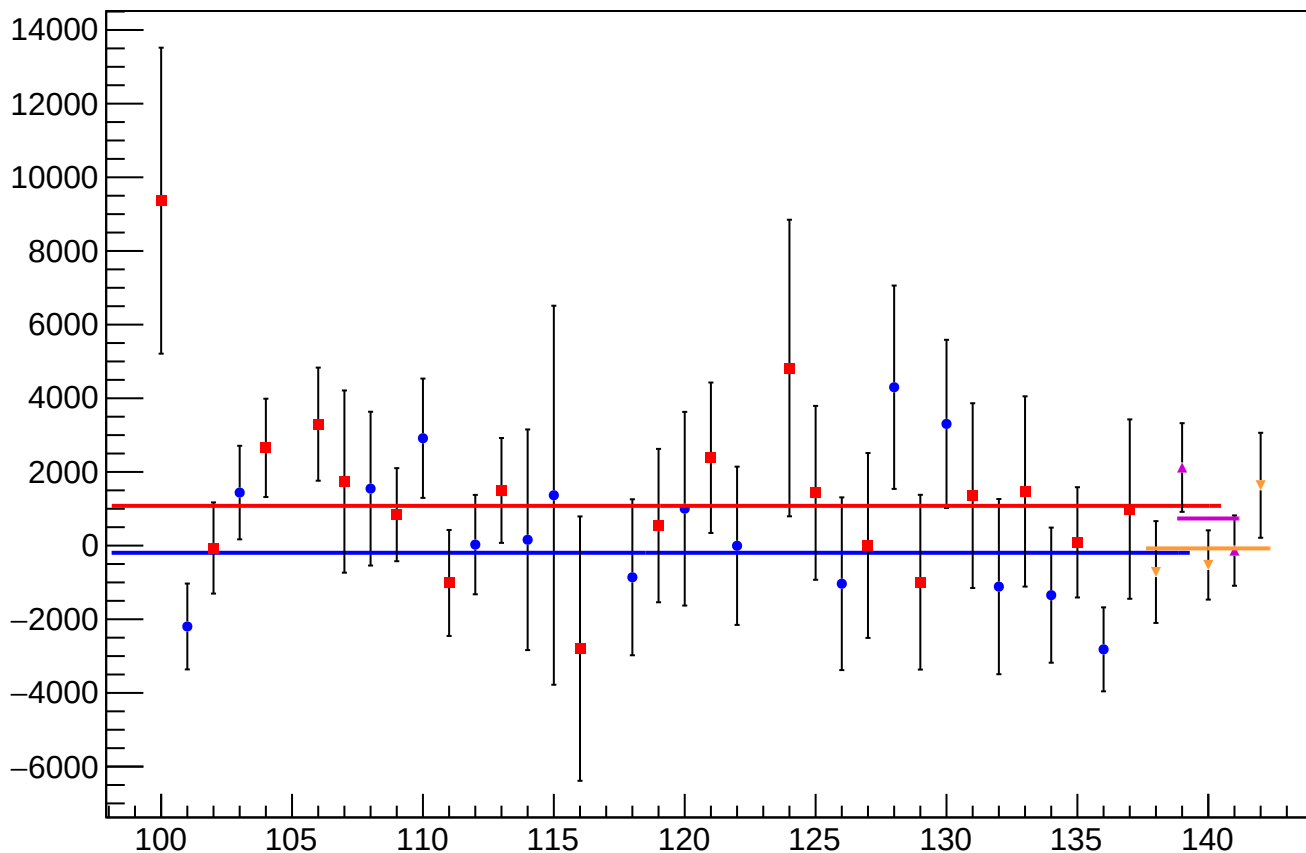
Out: 191.015 $\pm$ 39.616 χ^2 /NDF:16.2/21

All: 159.505 $\pm$ 28.500 χ^2 /NDF: 32.9/39

eigen_dit_asym_sam_48_dd_rms vs Slug, Sign Corrected



asym_sam_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -195.085+/-447.334 χ^2/NDF : 20.4/15

Left Out: -76.174+/-682.615 χ^2/NDF : 1.9/2

Right Out: 1079.393+/-425.950 χ^2/NDF : 14.6/18

Left In: 735.814+/-748.080 χ^2/NDF : 2.2/1

Left: 292.743+/-504.240 χ^2/NDF : 4.7/4

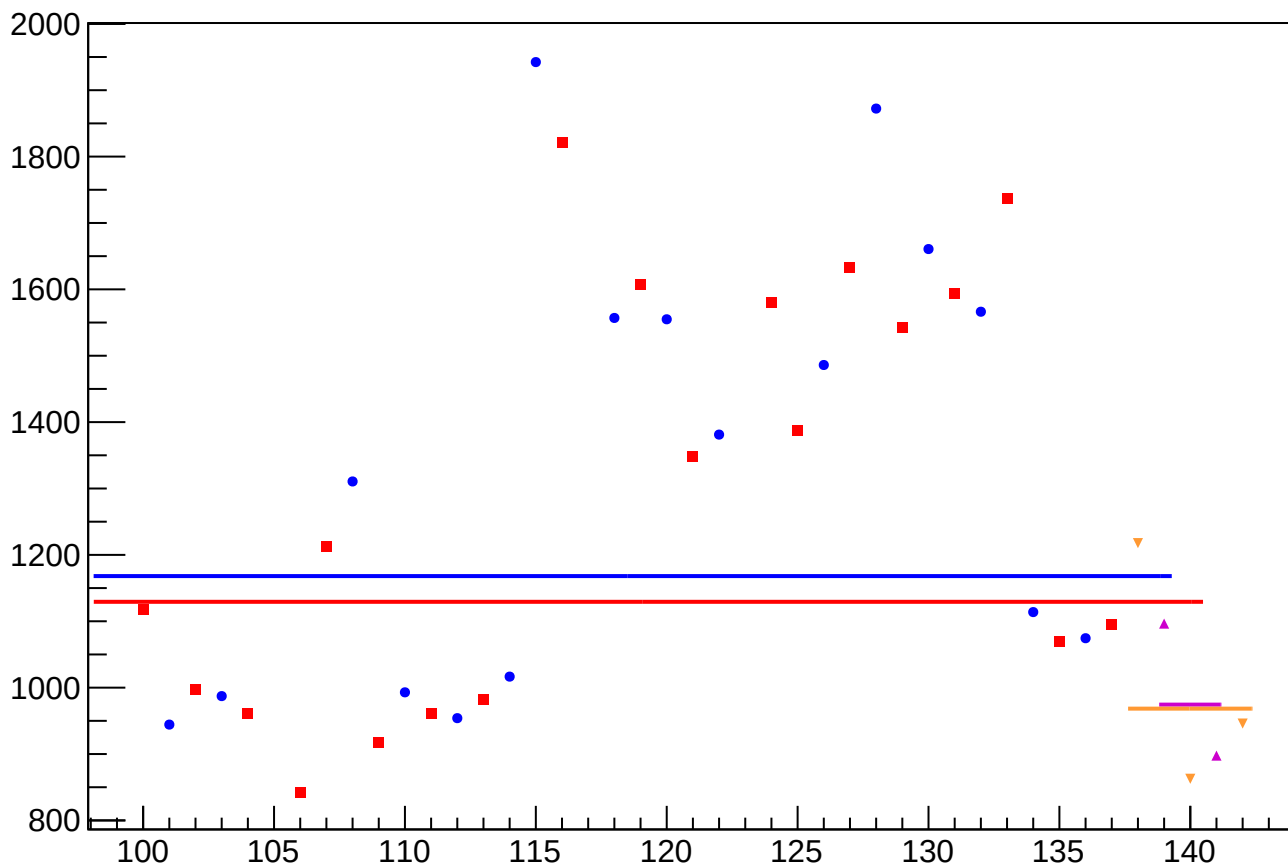
Right: 473.342+/-308.475 χ^2/NDF : 39.2/34

In: 50.106+/-383.928 χ^2/NDF : 23.7/17

Out: 755.544+/-361.368 χ^2/NDF : 18.5/21

All: 424.159+/-263.140 χ^2/NDF : 44.0/39

asym_sam_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1168.063+/-0.316 χ^2/NDF : 709365.6/15

Left Out: 968.390+/-0.483 χ^2/NDF : 90796.9/2

Right Out: 1129.316+/-0.301 χ^2/NDF : 807224.0/18

Left In: 974.436+/-0.529 χ^2/NDF : 33503.9/1

Left: 971.137+/-0.357 χ^2/NDF : 124372.1/4

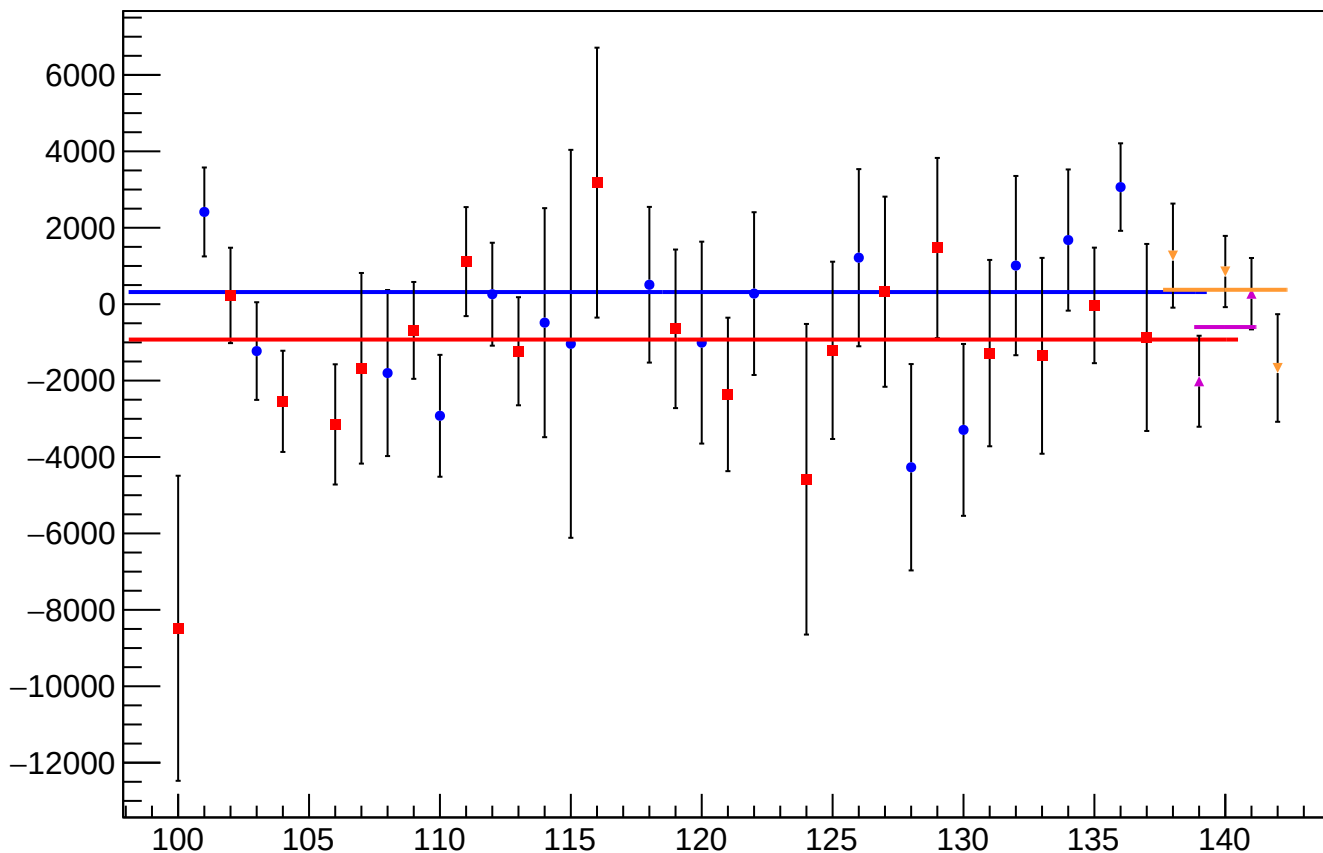
Right: 1147.741+/-0.218 χ^2/NDF : 1524459.2/34

In: 1117.063+/-0.271 χ^2/NDF : 841565.5/17

Out: 1084.216+/-0.256 χ^2/NDF : 978025.1/21

All: 1099.646+/-0.186 χ^2/NDF : 1827352.7/39

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 317.365+/-446.341 χ^2/NDF : 22.2/15

Left Out: 376.570+/-675.182 χ^2/NDF : 2.8/2

Right Out: -926.036+/-425.405 χ^2/NDF : 14.5/18

Left In: -598.439+/-735.093 χ^2/NDF : 2.3/1

Left: -69.589+/-497.259 χ^2/NDF : 6.1/4

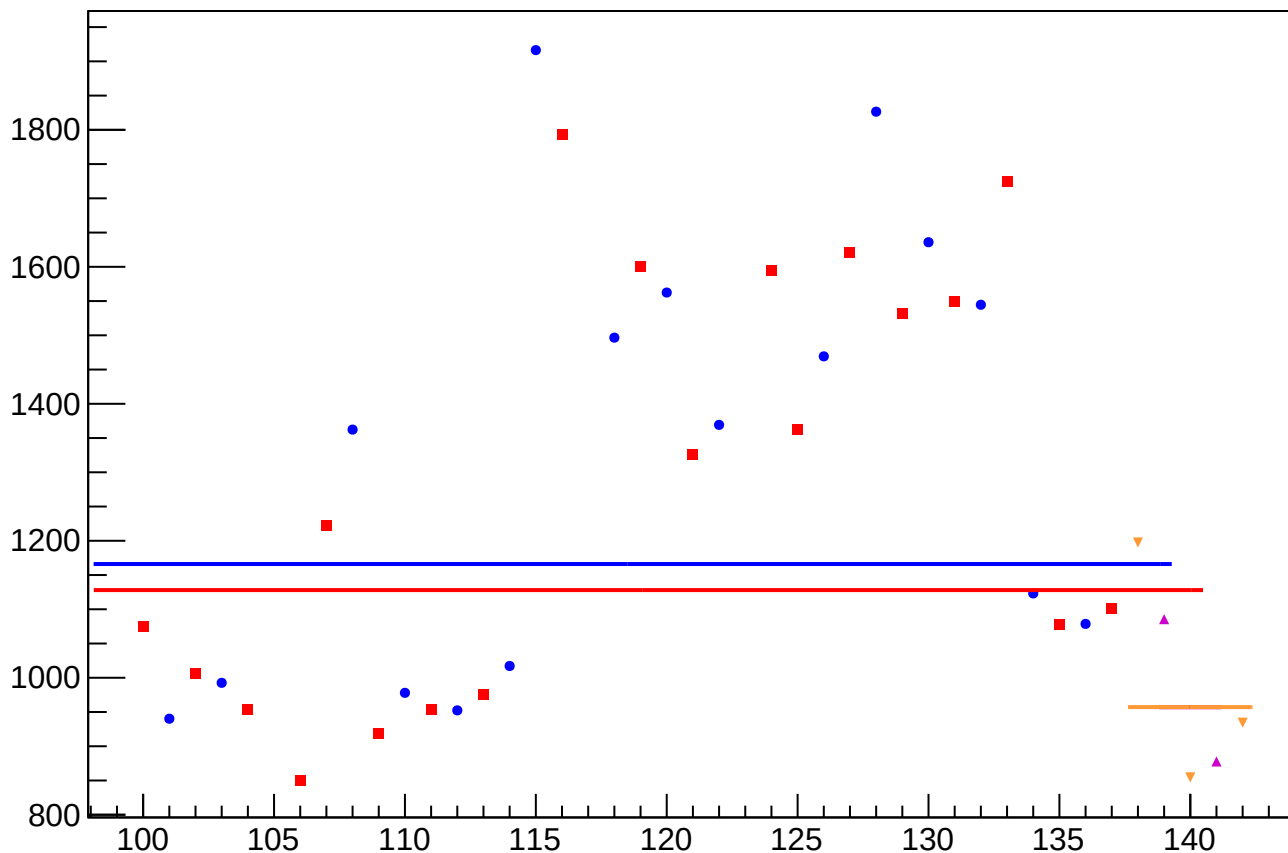
Right: -334.180+/-307.942 χ^2/NDF : 40.8/34

In: 70.676+/-381.519 χ^2/NDF : 25.6/17

Out: -555.878+/-359.922 χ^2/NDF : 20.0/21

All: -260.836+/-261.805 χ^2/NDF : 47.0/39

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1166.056 $\pm$ 0.316 χ^2 /NDF: 677063.1/15

Left Out: 957.176 $\pm$ 0.477 χ^2 /NDF: 87014.4/2

Right Out: 1128.006 $\pm$ 0.301 χ^2 /NDF: 775766.7/18

Left In: 956.953 $\pm$ 0.520 χ^2 /NDF: 37682.9/1

Left: 957.074 $\pm$ 0.352 χ^2 /NDF: 124697.4/4

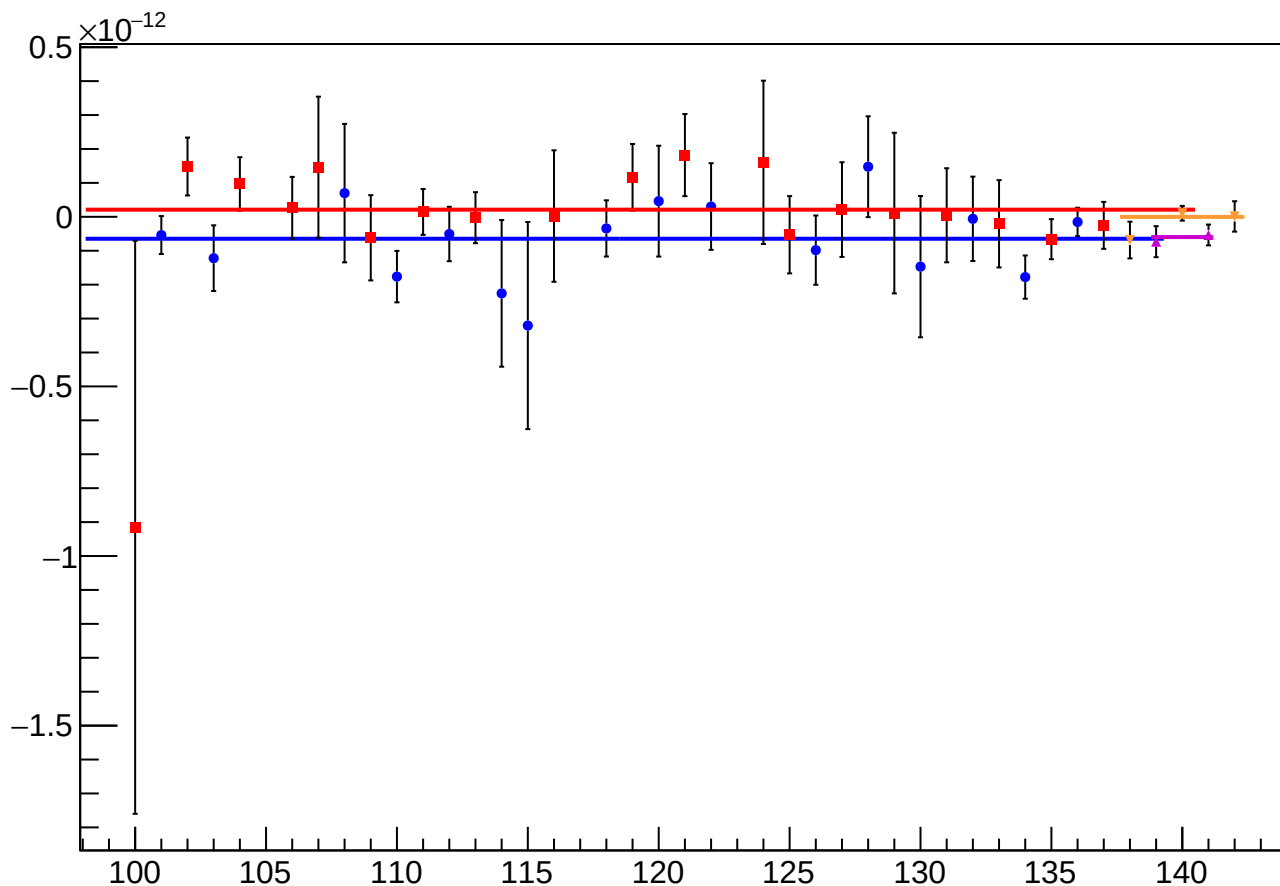
Right: 1146.118 $\pm$ 0.218 χ^2 /NDF: 1460446.1/34

In: 1109.731 $\pm$ 0.270 χ^2 /NDF: 832986.0/17

Out: 1079.462 $\pm$ 0.255 χ^2 /NDF: 954430.4/21

All: 1093.715 $\pm$ 0.185 χ^2 /NDF: 1794077.2/39

asym_sam_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 12.5/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:1.8/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 11.5/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:0.1/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 5.5/4

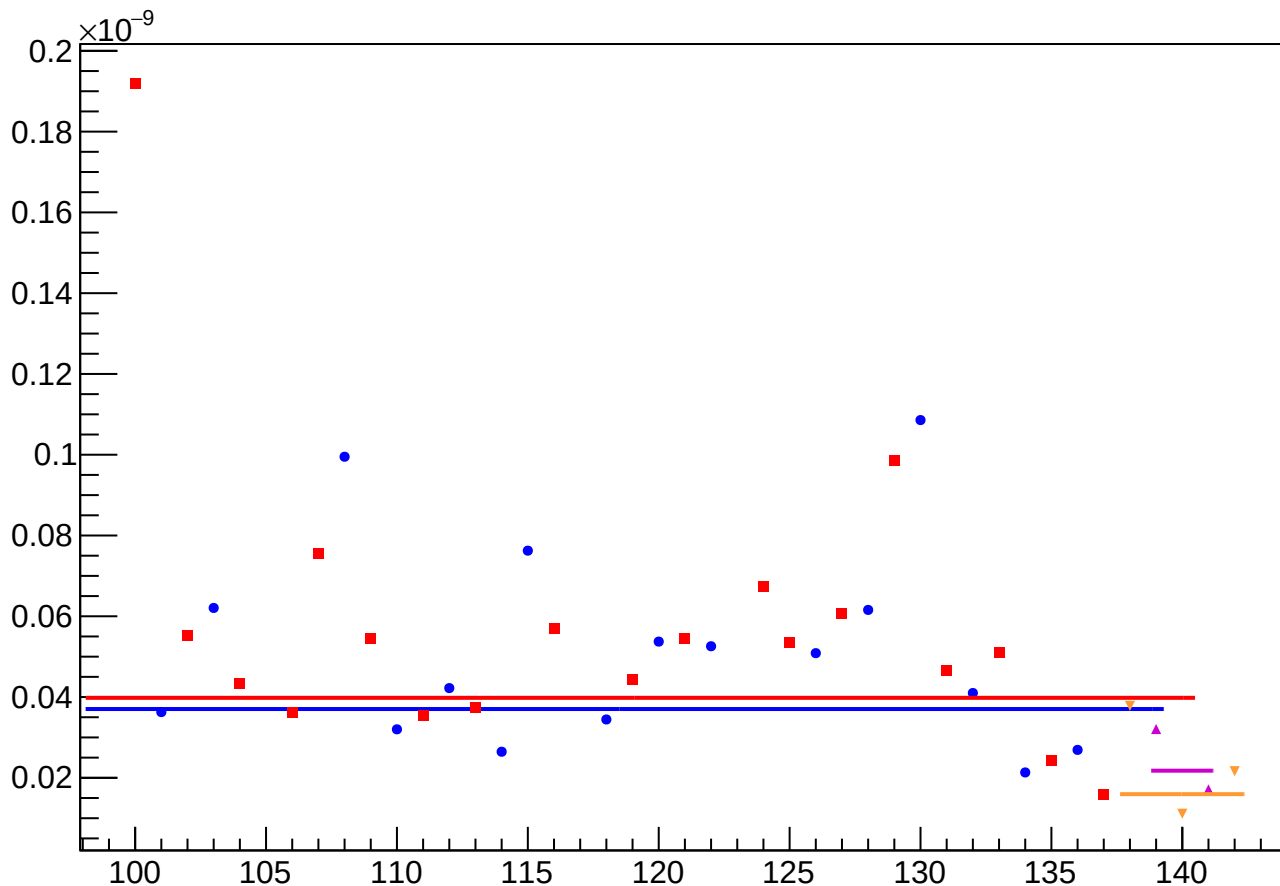
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 31.3/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:12.6/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:13.9/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 36.8/39

asym_sam_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 995390.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 458014.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 903728.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 146898.7/1

Left: 0.000+/-0.000 χ^2/NDF : 673355.5/4

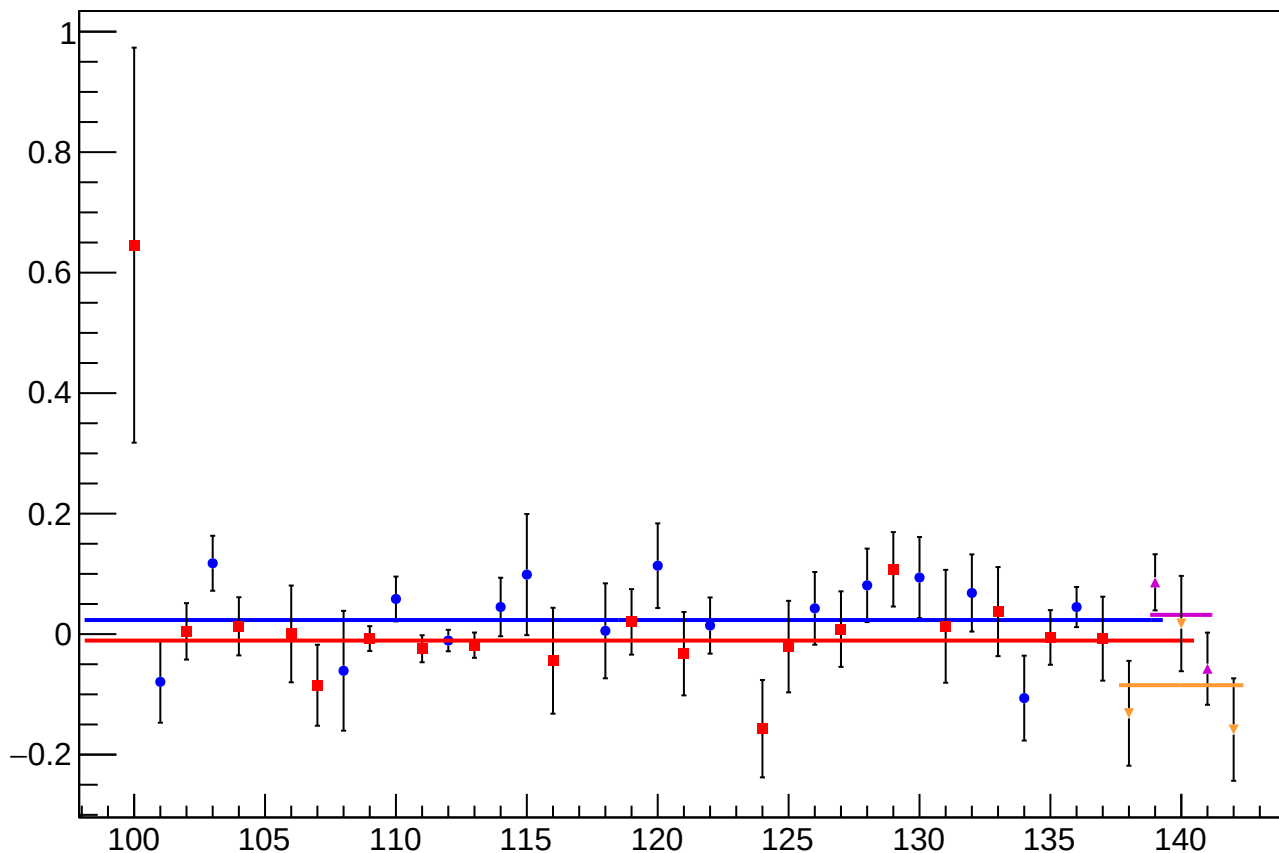
Right: 0.000+/-0.000 χ^2/NDF : 1914342.0/34

In: 0.000+/-0.000 χ^2/NDF : 1555789.4/17

Out: 0.000+/-0.000 χ^2/NDF : 2667031.3/21

All: 0.000+/-0.000 χ^2/NDF : 4343138.9/39

asym_sam_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.023 ± 0.011 $\chi^2/\text{NDF}: 20.7/15$

Left Out: -0.085 ± 0.048 $\chi^2/\text{NDF}: 2.7/2$

Right Out: -0.011 ± 0.010 $\chi^2/\text{NDF}: 14.2/18$

Left In: 0.032 ± 0.037 $\chi^2/\text{NDF}: 3.6/1$

Left: -0.011 ± 0.029 $\chi^2/\text{NDF}: 10.0/4$

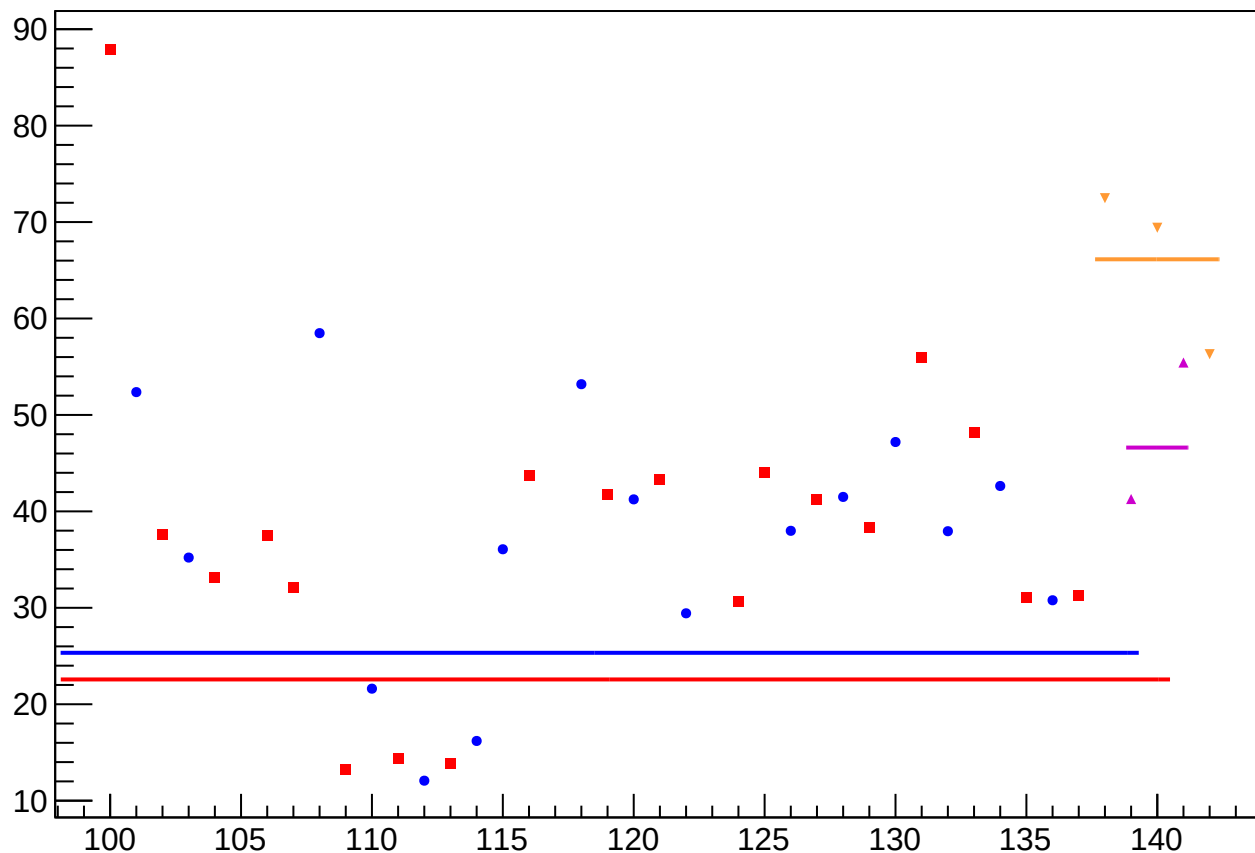
Right: 0.004 ± 0.007 $\chi^2/\text{NDF}: 40.3/34$

In: 0.024 ± 0.011 $\chi^2/\text{NDF}: 24.4/17$

Out: -0.014 ± 0.010 $\chi^2/\text{NDF}: 19.2/21$

All: 0.003 ± 0.007 $\chi^2/\text{NDF}: 50.5/39$

asym_sam_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.334+/-0.008 χ^2/NDF : 2925132.2/15

Left Out: 66.138+/-0.034 χ^2/NDF : 40795.8/2

Right Out: 22.571+/-0.007 χ^2/NDF : 3139937.1/18

Left In: 46.615+/-0.026 χ^2/NDF : 69603.5/1

Left: 53.791+/-0.021 χ^2/NDF : 317758.3/4

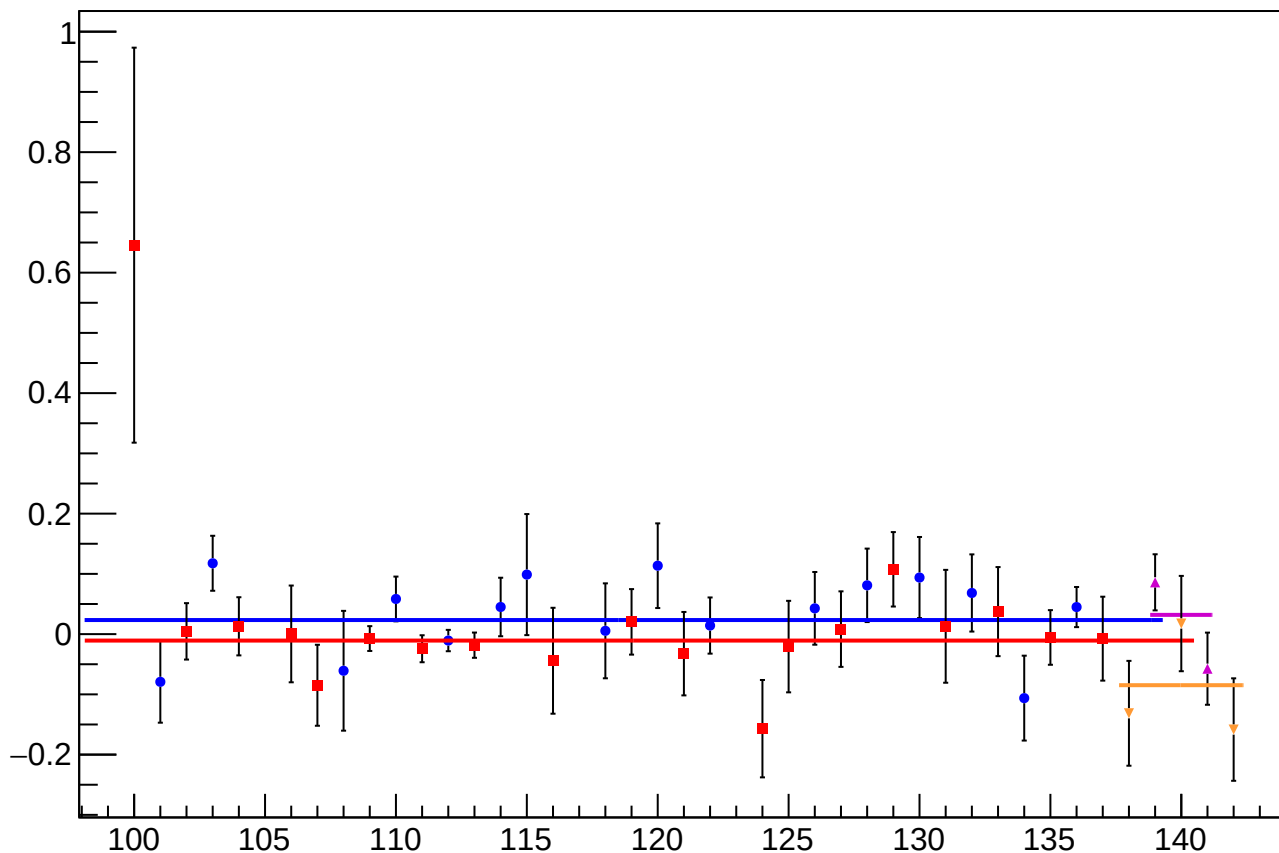
Right: 23.786+/-0.005 χ^2/NDF : 6134886.6/34

In: 27.103+/-0.007 χ^2/NDF : 3609263.2/17

Out: 24.300+/-0.007 χ^2/NDF : 4748650.5/21

All: 25.564+/-0.005 χ^2/NDF : 8434687.2/39

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.023 ± 0.011 $\chi^2/\text{NDF}: 20.7/15$

Left Out: -0.085 ± 0.048 $\chi^2/\text{NDF}: 2.7/2$

Right Out: -0.011 ± 0.010 $\chi^2/\text{NDF}: 14.2/18$

Left In: 0.032 ± 0.037 $\chi^2/\text{NDF}: 3.6/1$

Left: -0.011 ± 0.029 $\chi^2/\text{NDF}: 10.0/4$

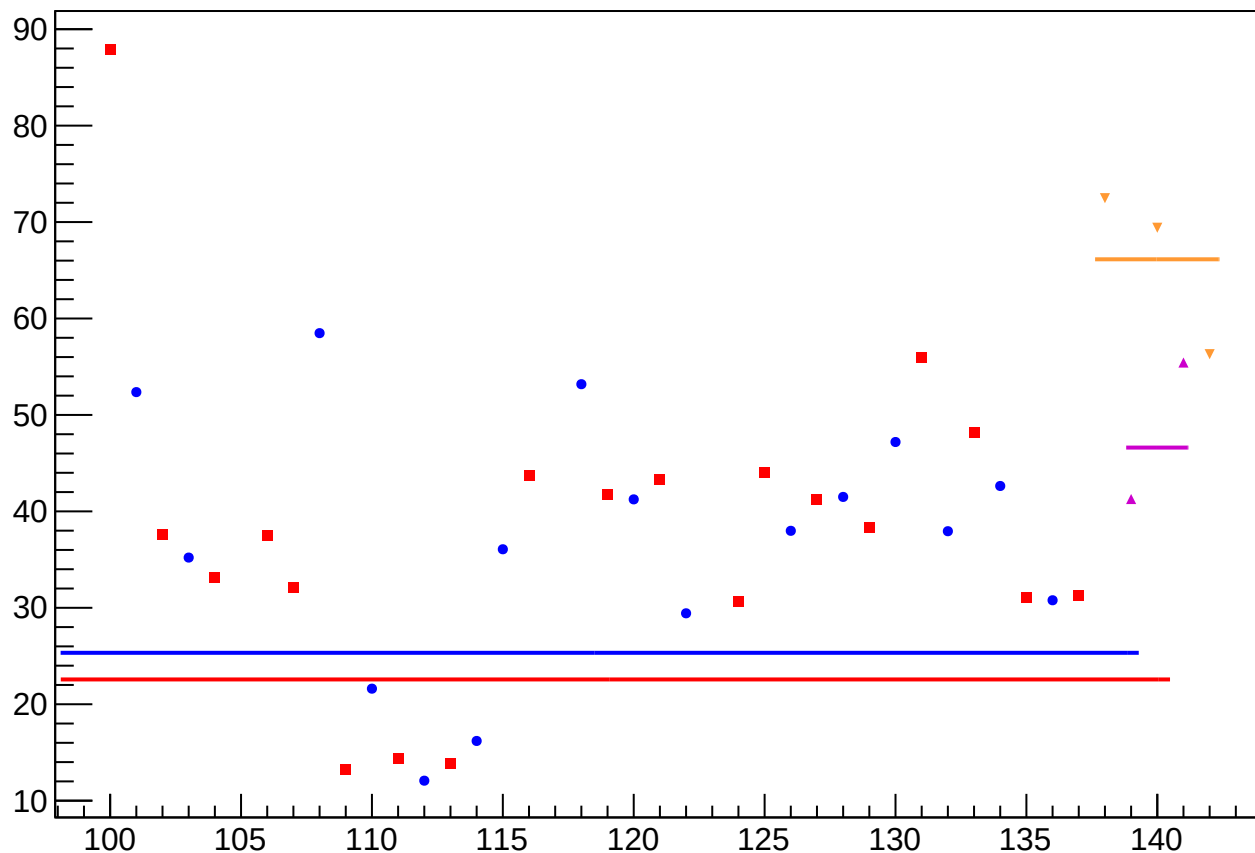
Right: 0.004 ± 0.007 $\chi^2/\text{NDF}: 40.3/34$

In: 0.024 ± 0.011 $\chi^2/\text{NDF}: 24.4/17$

Out: -0.014 ± 0.010 $\chi^2/\text{NDF}: 19.2/21$

All: 0.003 ± 0.007 $\chi^2/\text{NDF}: 50.5/39$

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.334 $\pm$ 0.008 χ^2/NDF : 2925132.2/15

Left Out: 66.138 $\pm$ 0.034 χ^2/NDF : 40795.8/2

Right Out: 22.571 $\pm$ 0.007 χ^2/NDF : 3139937.1/18

Left In: 46.615 $\pm$ 0.026 χ^2/NDF : 69603.5/1

Left: 53.791 $\pm$ 0.021 χ^2/NDF : 317758.3/4

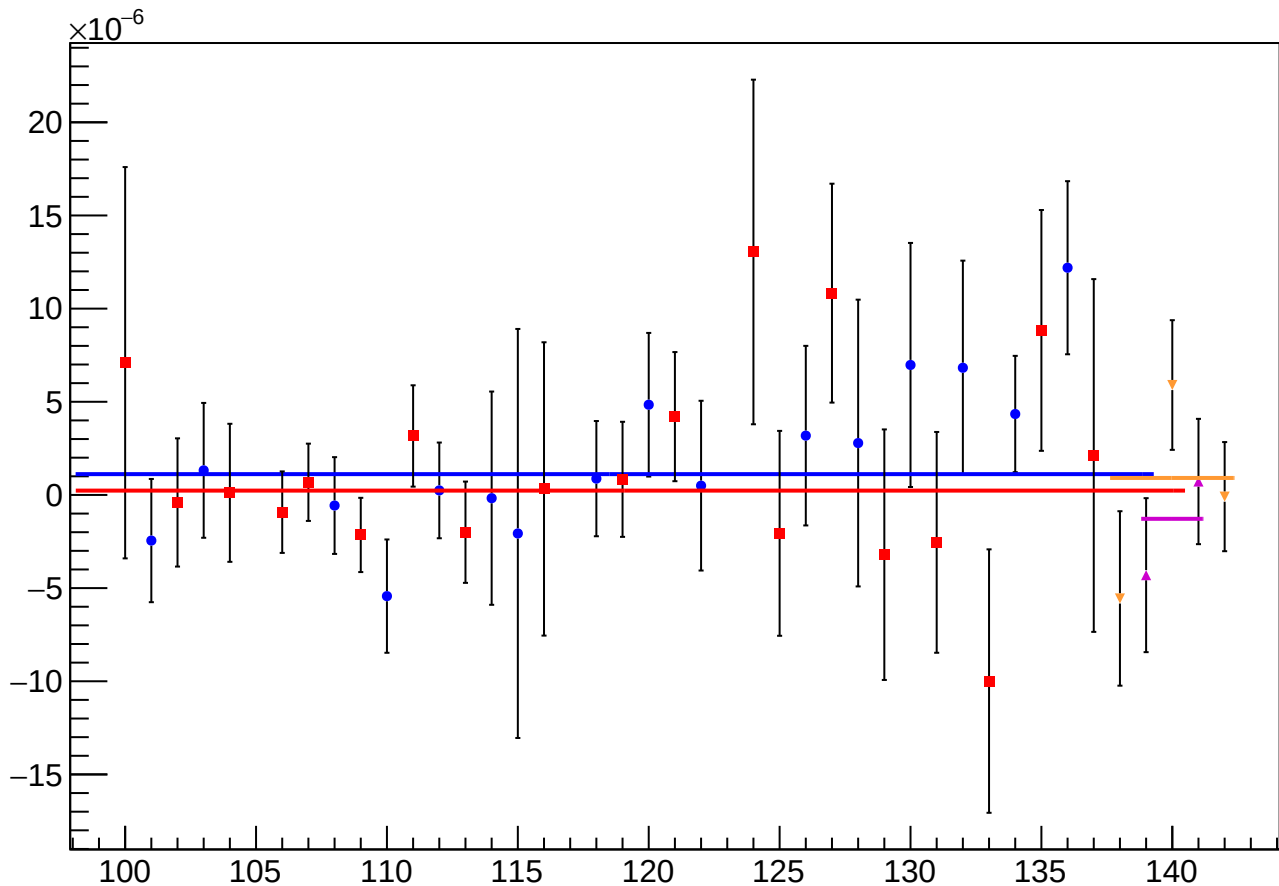
Right: 23.786 $\pm$ 0.005 χ^2/NDF : 6134886.6/34

In: 27.103 $\pm$ 0.007 χ^2/NDF : 3609263.2/17

Out: 24.300 $\pm$ 0.007 χ^2/NDF : 4748650.5/21

All: 25.564 $\pm$ 0.005 χ^2/NDF : 8434687.2/39

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 4.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 15.1/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.9/1

Left: 0.000+/-0.000 χ^2/NDF : 5.4/4

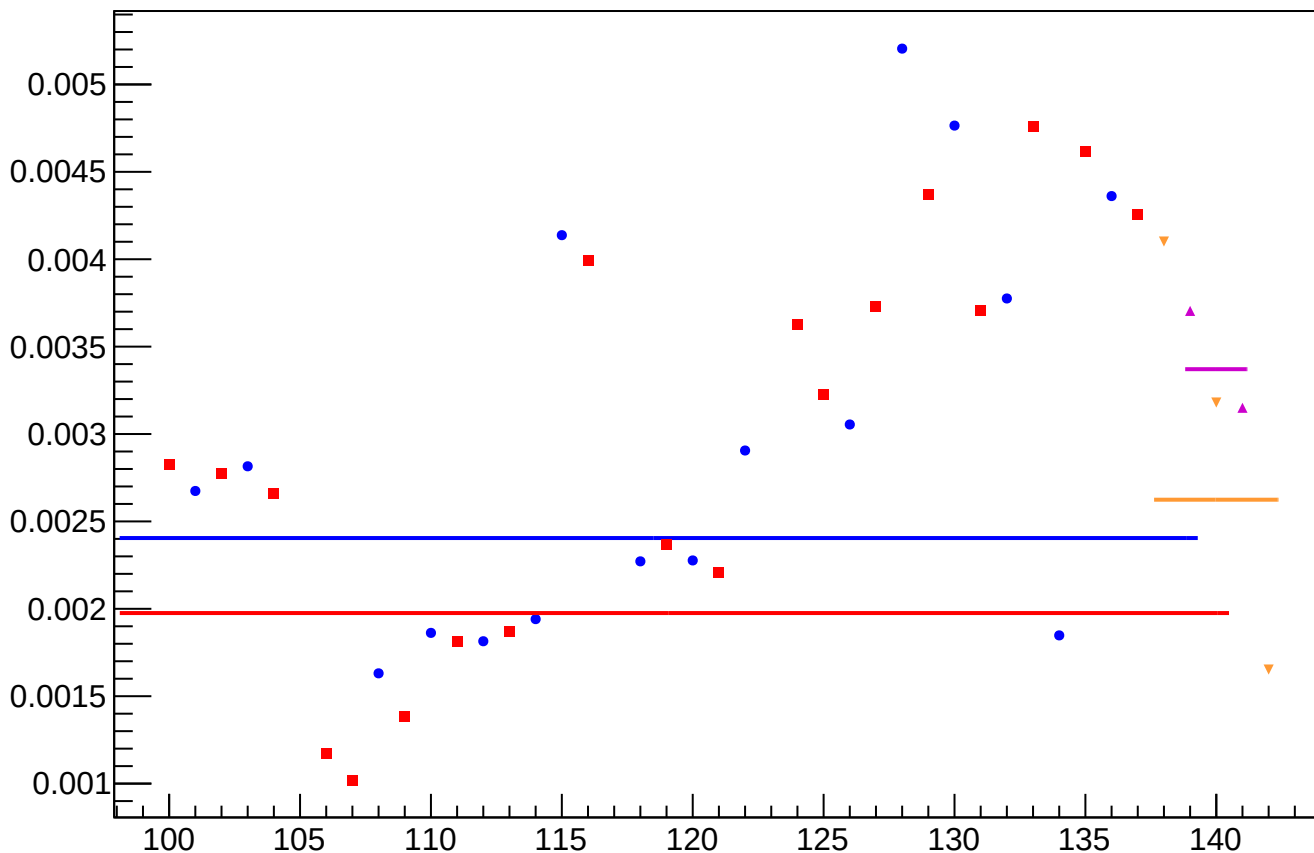
Right: 0.000+/-0.000 χ^2/NDF : 31.8/34

In: 0.000+/-0.000 χ^2/NDF : 17.8/17

Out: 0.000+/-0.000 χ^2/NDF : 19.3/21

All: 0.000+/-0.000 χ^2/NDF : 37.3/39

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000

χ^2/NDF : 1571983.6/15

Left Out: 0.003+/-0.000

χ^2/NDF : 470313.8/2

Right Out: 0.002+/-0.000

χ^2/NDF : 2775363.3/18

Left In: 0.003+/-0.000

χ^2/NDF : 21644.2/1

Left: 0.003+/-0.000

χ^2/NDF : 594386.4/4

Right: 0.002+/-0.000

χ^2/NDF : 4581712.7/34

In: 0.003+/-0.000

χ^2/NDF : 1835578.1/17

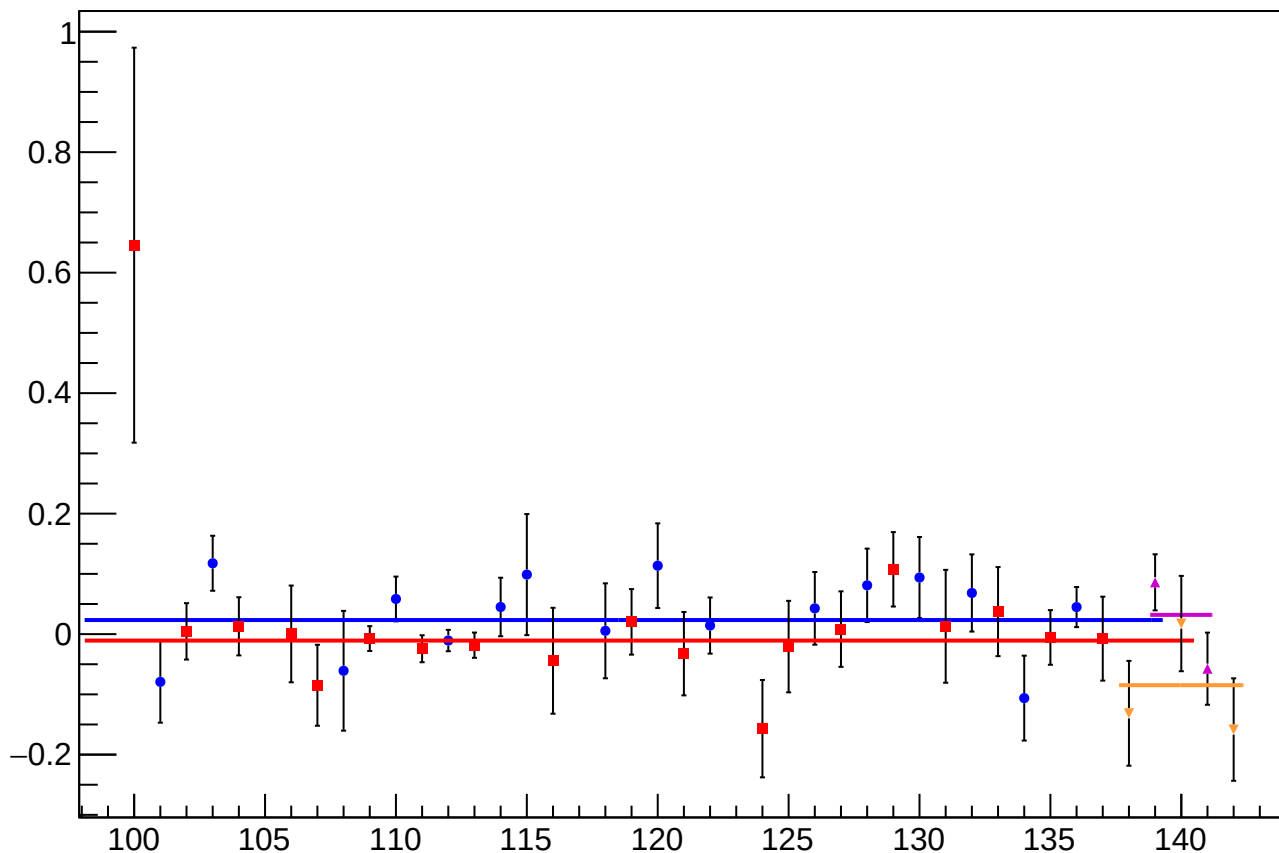
Out: 0.002+/-0.000

χ^2/NDF : 3422930.0/21

All: 0.002+/-0.000

χ^2/NDF : 5557659.0/39

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.023 ± 0.011 $\chi^2/\text{NDF}: 20.7/15$

Left Out: -0.085 ± 0.048 $\chi^2/\text{NDF}: 2.7/2$

Right Out: -0.011 ± 0.010 $\chi^2/\text{NDF}: 14.2/18$

Left In: 0.032 ± 0.037 $\chi^2/\text{NDF}: 3.6/1$

Left: -0.011 ± 0.029 $\chi^2/\text{NDF}: 10.0/4$

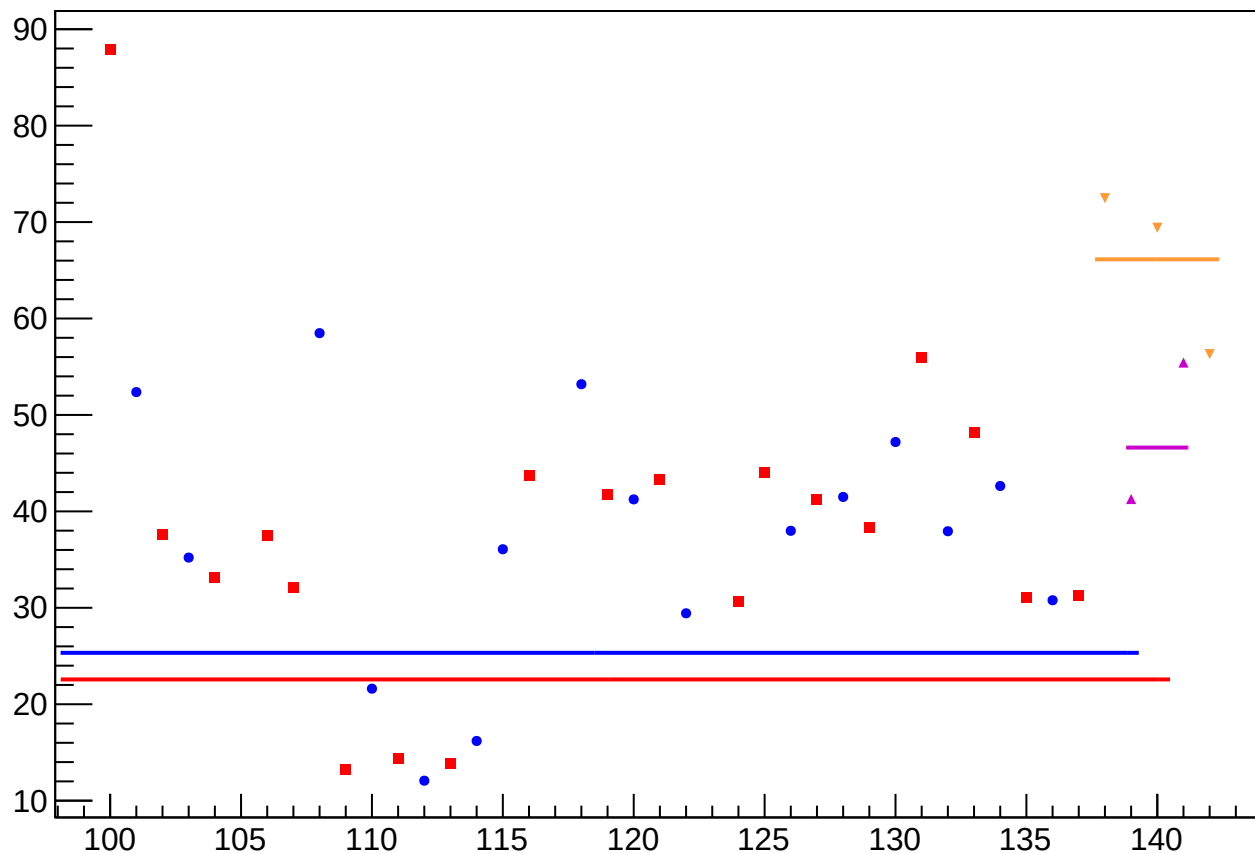
Right: 0.004 ± 0.007 $\chi^2/\text{NDF}: 40.3/34$

In: 0.024 ± 0.011 $\chi^2/\text{NDF}: 24.4/17$

Out: -0.014 ± 0.010 $\chi^2/\text{NDF}: 19.2/21$

All: 0.003 ± 0.007 $\chi^2/\text{NDF}: 50.5/39$

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.332+/-0.008 χ^2/NDF : 2925549.0/15

Left Out: 66.139+/-0.034 χ^2/NDF : 40790.1/2

Right Out: 22.571+/-0.007 χ^2/NDF : 3140082.3/18

Left In: 46.614+/-0.026 χ^2/NDF : 69615.1/1

Left: 53.791+/-0.021 χ^2/NDF : 317777.7/4

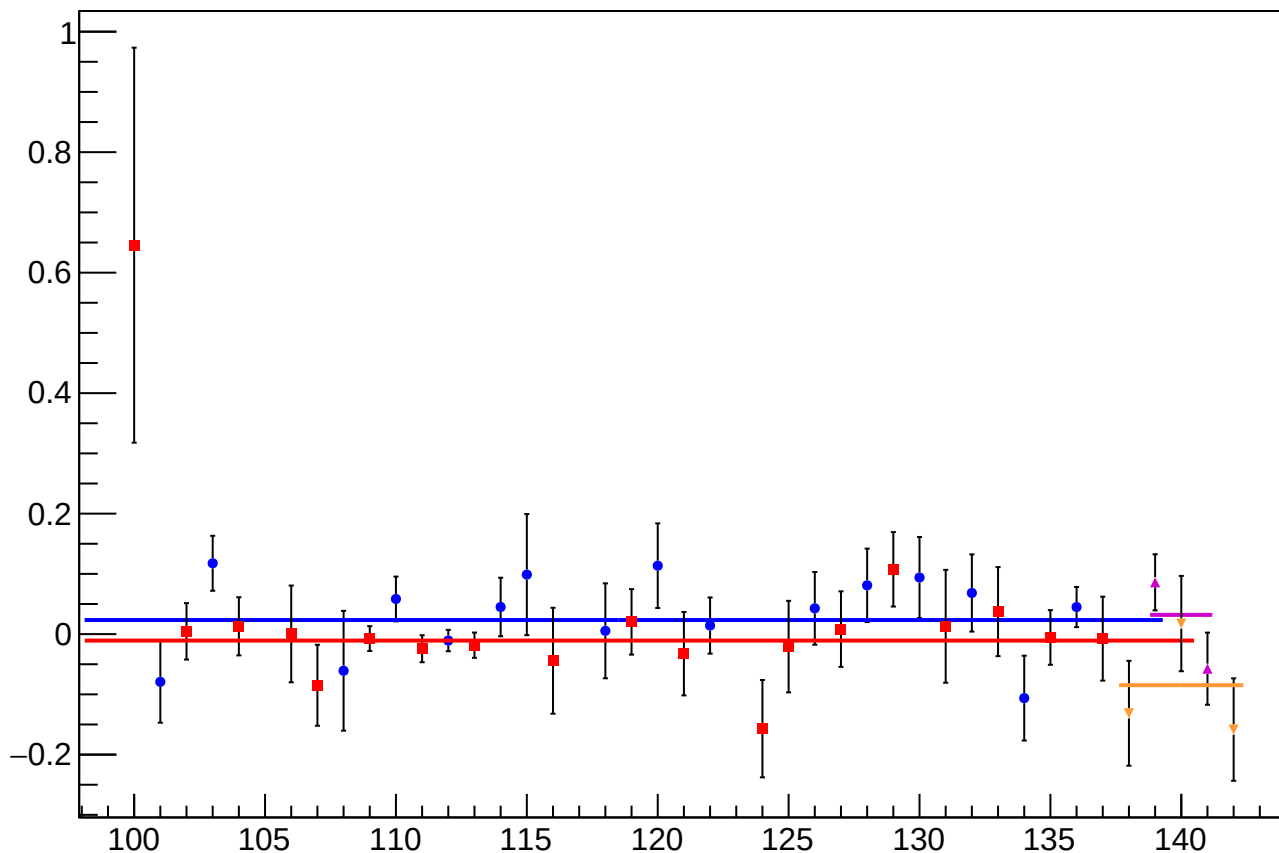
Right: 23.785+/-0.005 χ^2/NDF : 6135400.4/34

In: 27.101+/-0.007 χ^2/NDF : 3609759.7/17

Out: 24.300+/-0.007 χ^2/NDF : 4748822.5/21

All: 25.563+/-0.005 χ^2/NDF : 8435304.5/39

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.023 ± 0.011 $\chi^2/\text{NDF}: 20.7/15$

Left Out: -0.085 ± 0.048 $\chi^2/\text{NDF}: 2.7/2$

Right Out: -0.011 ± 0.010 $\chi^2/\text{NDF}: 14.2/18$

Left In: 0.032 ± 0.037 $\chi^2/\text{NDF}: 3.6/1$

Left: -0.011 ± 0.029 $\chi^2/\text{NDF}: 10.0/4$

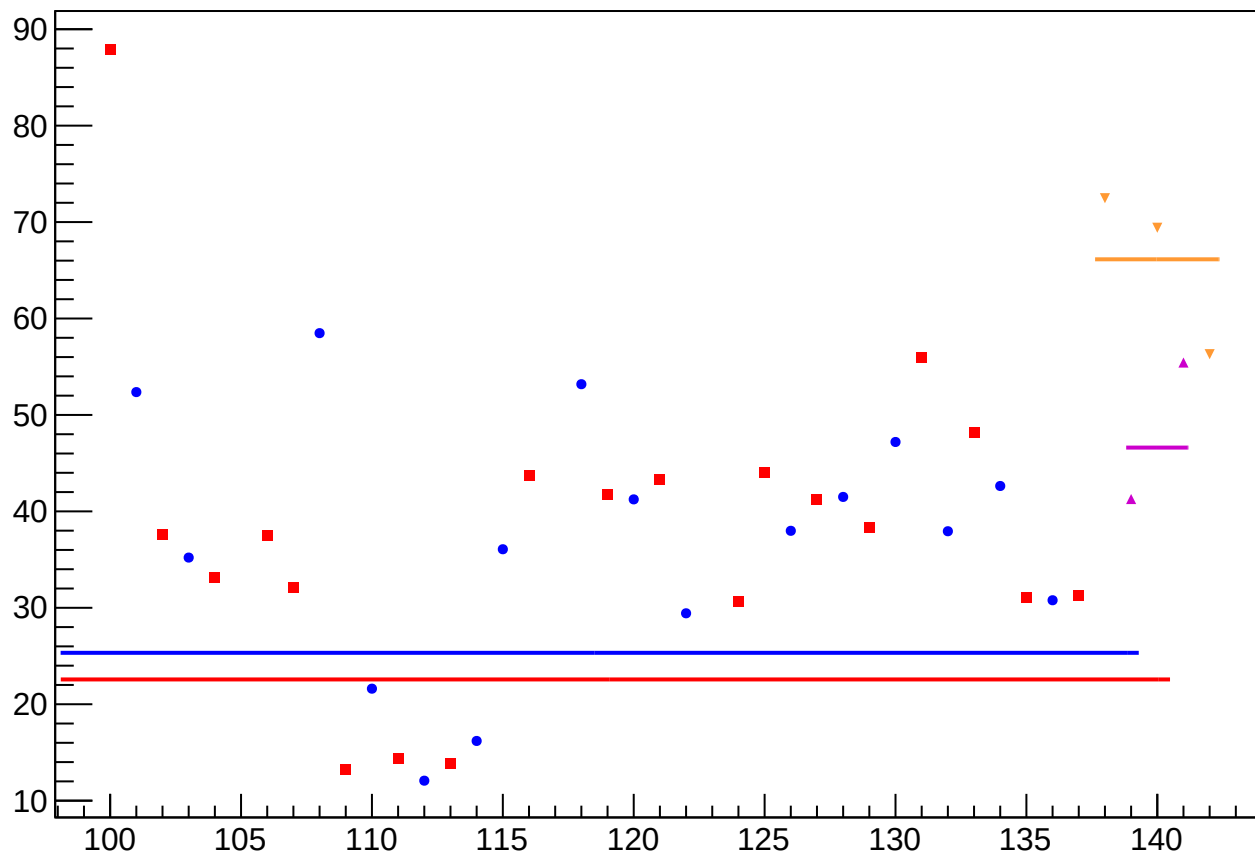
Right: 0.004 ± 0.007 $\chi^2/\text{NDF}: 40.3/34$

In: 0.024 ± 0.011 $\chi^2/\text{NDF}: 24.4/17$

Out: -0.014 ± 0.010 $\chi^2/\text{NDF}: 19.2/21$

All: 0.003 ± 0.007 $\chi^2/\text{NDF}: 50.5/39$

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.332+/-0.008 χ^2/NDF : 2925549.0/15

Left Out: 66.139+/-0.034 χ^2/NDF : 40790.1/2

Right Out: 22.571+/-0.007 χ^2/NDF : 3140082.3/18

Left In: 46.614+/-0.026 χ^2/NDF : 69615.1/1

Left: 53.791+/-0.021 χ^2/NDF : 317777.7/4

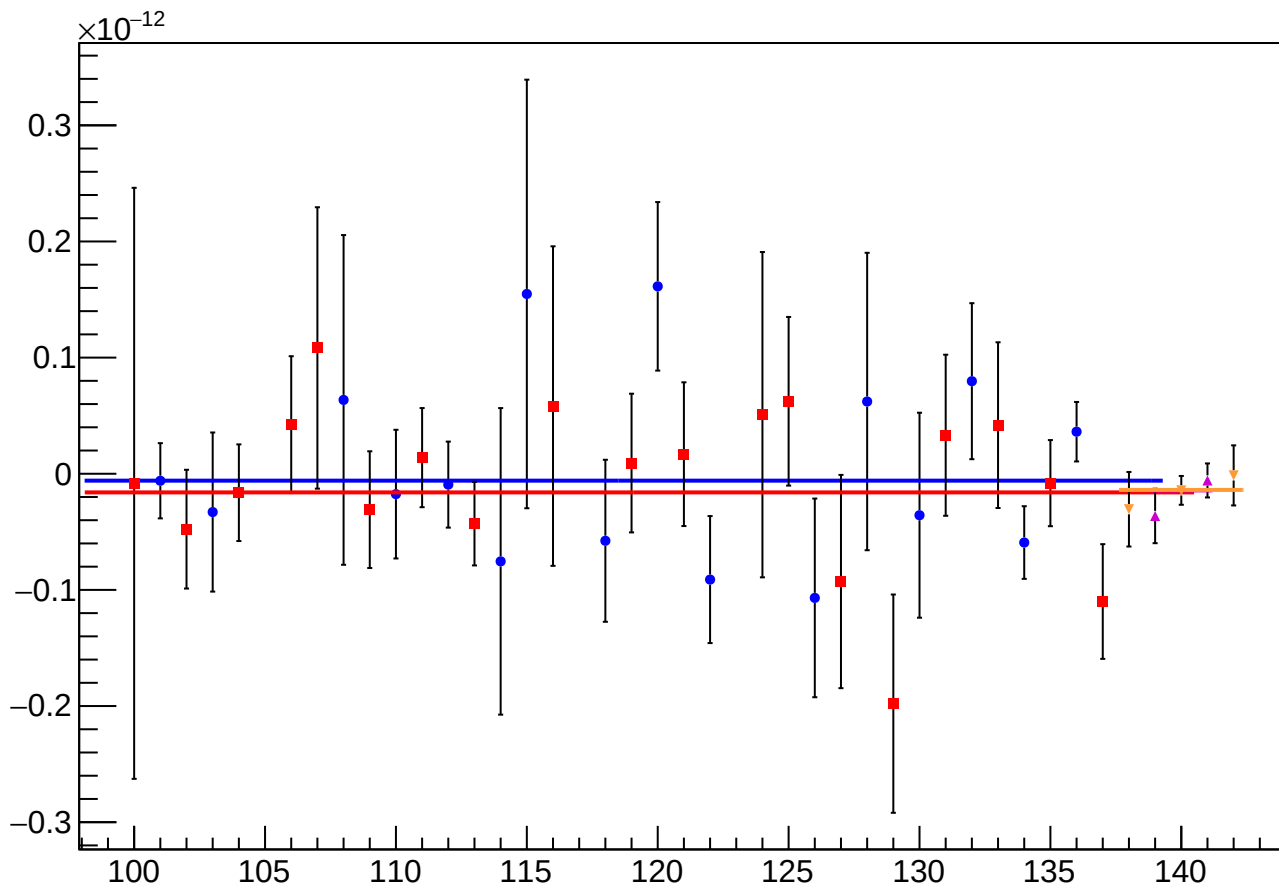
Right: 23.785+/-0.005 χ^2/NDF : 6135400.4/34

In: 27.101+/-0.007 χ^2/NDF : 3609759.7/17

Out: 24.300+/-0.007 χ^2/NDF : 4748822.5/21

All: 25.563+/-0.005 χ^2/NDF : 8435304.5/39

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 18.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.5/2

Right Out: -0.000+/-0.000 χ^2/NDF : 15.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 1.2/1

Left: -0.000+/-0.000 χ^2/NDF : 1.7/4

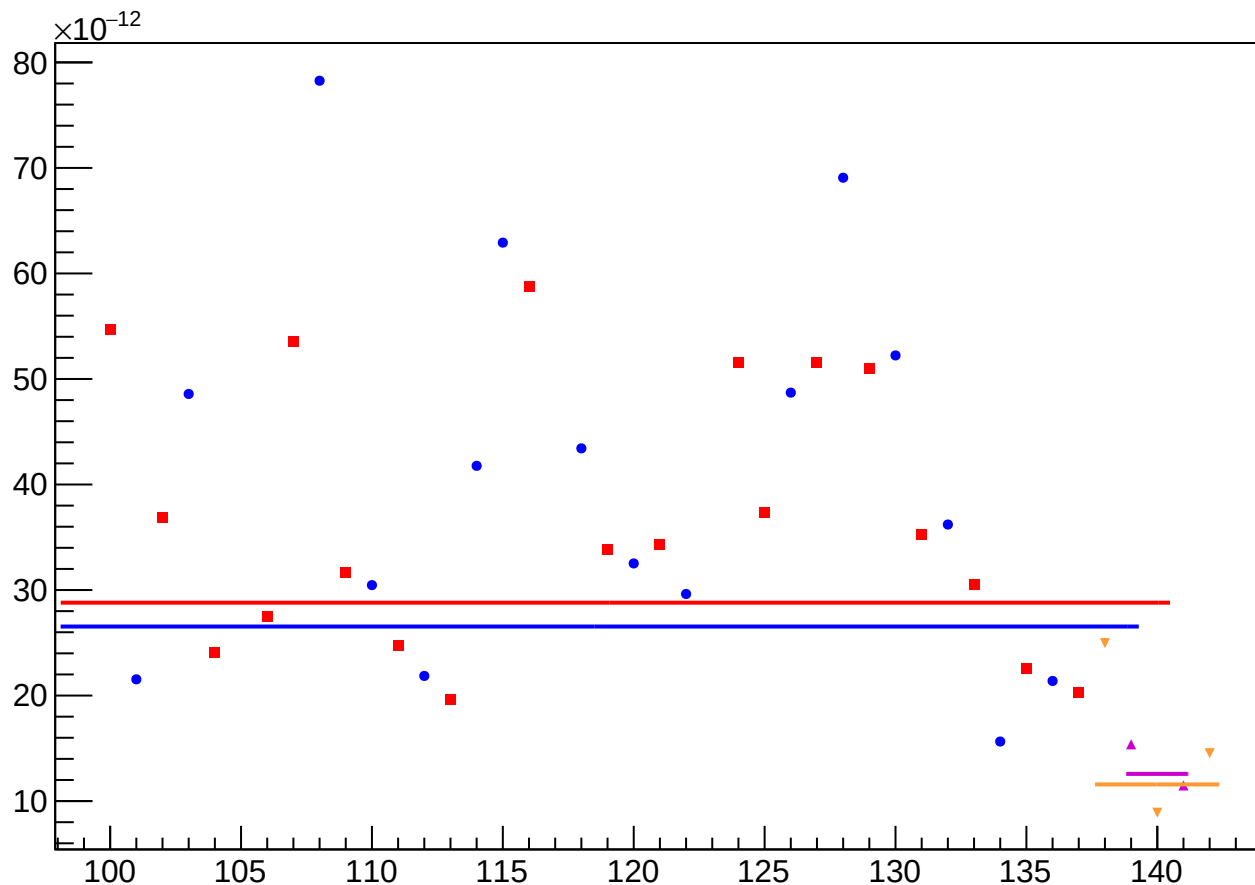
Right: -0.000+/-0.000 χ^2/NDF : 34.1/34

In: -0.000+/-0.000 χ^2/NDF : 20.3/17

Out: -0.000+/-0.000 χ^2/NDF : 15.5/21

All: -0.000+/-0.000 χ^2/NDF : 35.9/39

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1693643.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 467525.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 910681.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 39727.3/1

Left: 0.000+/-0.000 χ^2/NDF : 514719.7/4

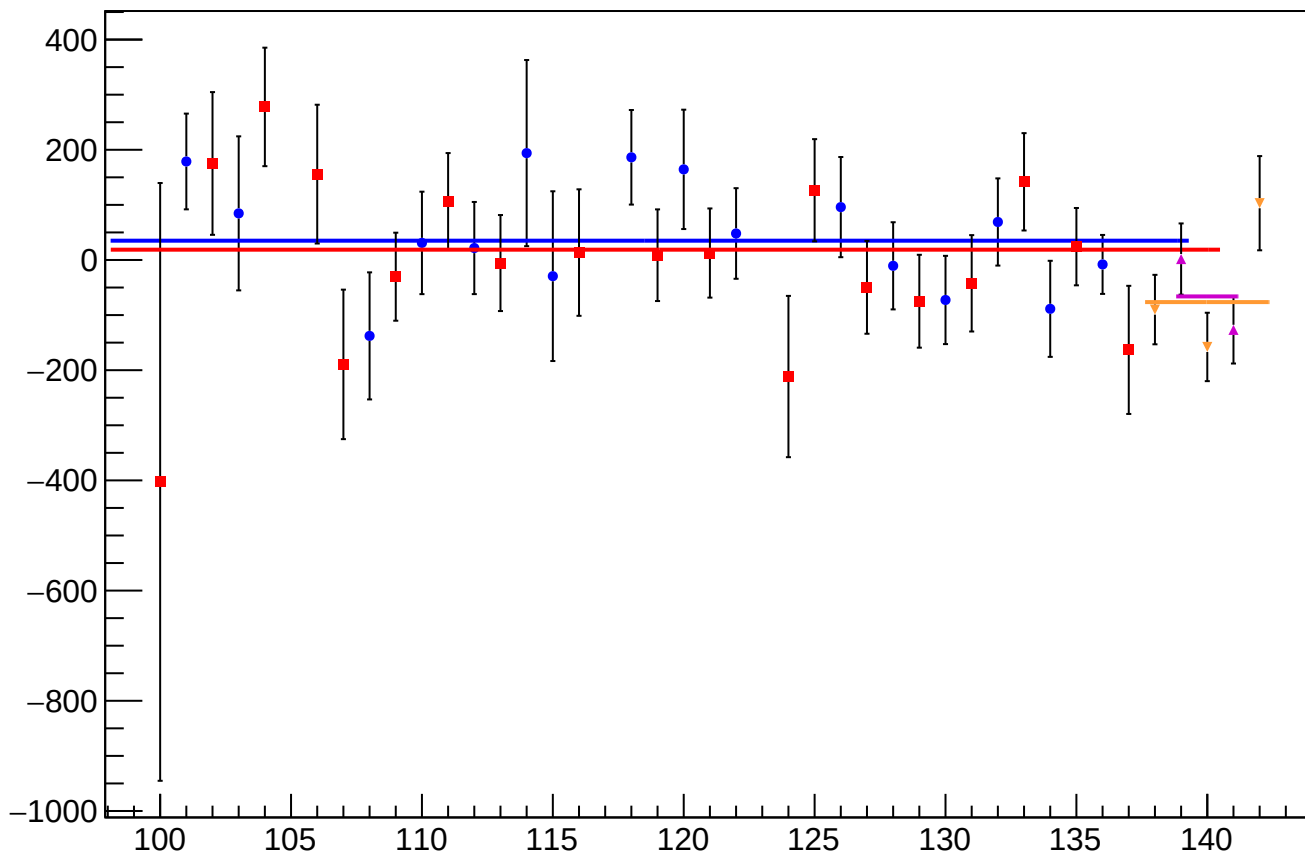
Right: 0.000+/-0.000 χ^2/NDF : 2634482.2/34

In: 0.000+/-0.000 χ^2/NDF : 2967402.6/17

Out: 0.000+/-0.000 χ^2/NDF : 3435677.0/21

All: 0.000+/-0.000 χ^2/NDF : 6421081.0/39

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 35.018 $\pm$ 22.134 χ^2 /NDF: 16.2/15

Left Out: -76.416 $\pm$ 39.281 χ^2 /NDF:6.2/2

Right Out: 18.690 $\pm$ 22.137 χ^2 /NDF: 23.5/18

Left In: -66.121 $\pm$ 44.405 χ^2 /NDF:2.1/1

Left: -71.896 $\pm$ 29.421 χ^2 /NDF: 8.3/4

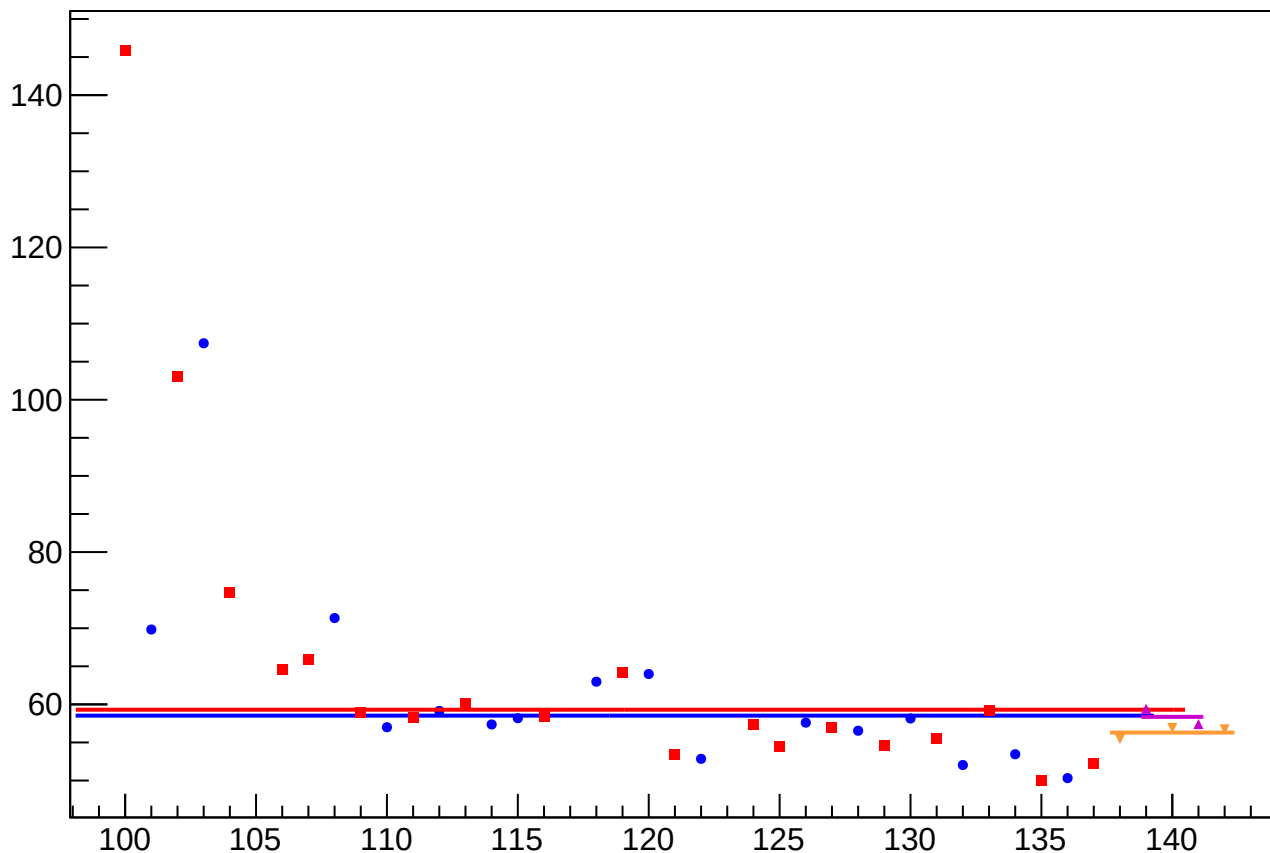
Right: 26.855 $\pm$ 15.652 χ^2 /NDF: 40.0/34

In: 14.890 $\pm$ 19.810 χ^2 /NDF:22.4/17

Out: -4.234 $\pm$ 19.285 χ^2 /NDF:34.1/21

All: 5.071 $\pm$ 13.818 χ^2 /NDF: 57.0/39

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 58.522 $\pm$ 0.016 χ^2 /NDF: 392742.4/15

Left Out: 56.299 $\pm$ 0.028 χ^2 /NDF: 597.8/2

Right Out: 59.301 $\pm$ 0.016 χ^2 /NDF: 406611.5/18

Left In: 58.363 $\pm$ 0.031 χ^2 /NDF: 1021.6/1

Left: 57.205 $\pm$ 0.021 χ^2 /NDF: 4043.9/4

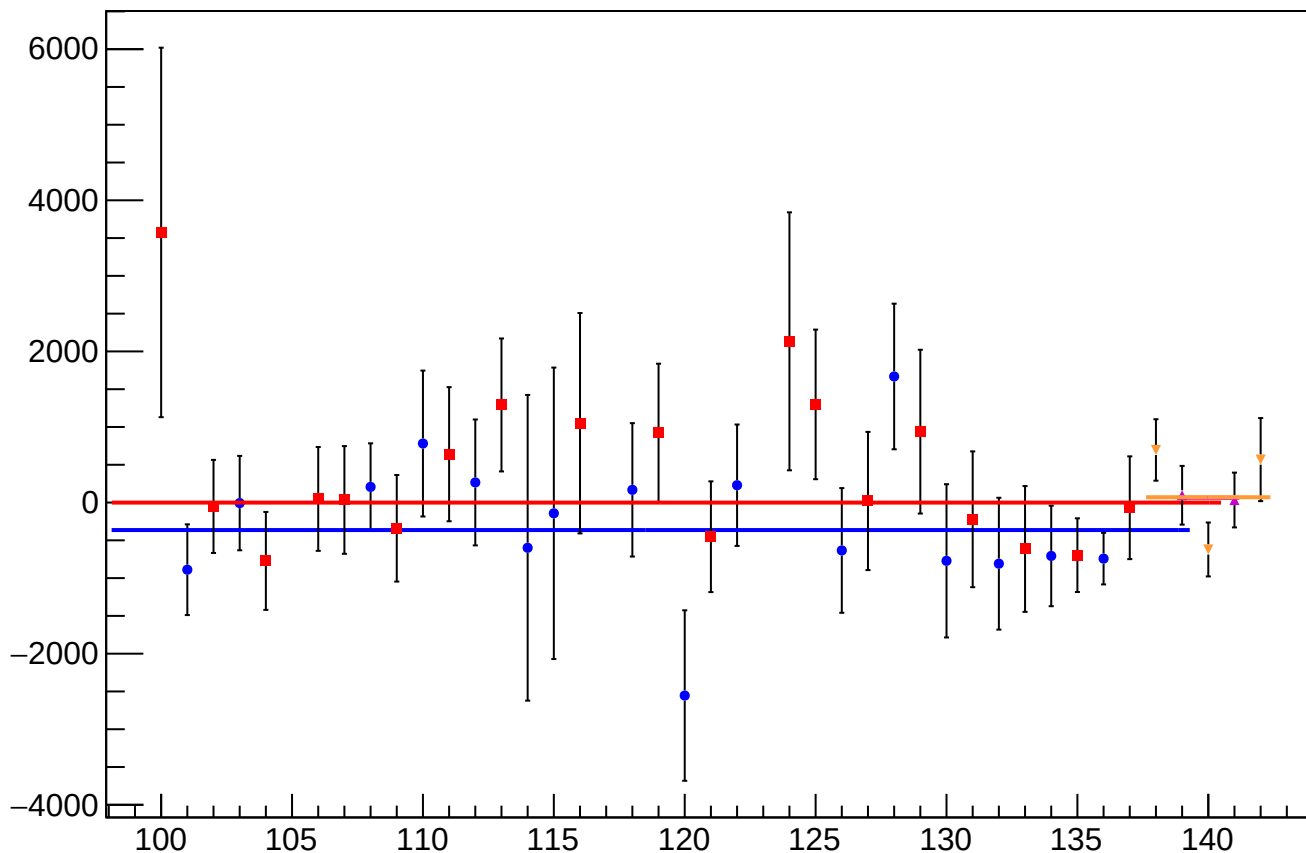
Right: 58.911 $\pm$ 0.011 χ^2 /NDF: 800594.3/34

In: 58.490 $\pm$ 0.014 χ^2 /NDF: 393784.4/17

Out: 58.578 $\pm$ 0.014 χ^2 /NDF: 416077.2/21

All: 58.535 $\pm$ 0.010 χ^2 /NDF: 809881.6/39

asym_sam_13_57_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -364.076 ± 180.601 $\chi^2/\text{NDF}: 15.2/15$

Left Out: 70.379 ± 241.065 $\chi^2/\text{NDF}: 6.9/2$

Right Out: -0.570 ± 183.085 $\chi^2/\text{NDF}: 15.1/18$

Left In: 62.780 ± 265.079 $\chi^2/\text{NDF}: 0.0/1$

Left: 66.939 ± 178.345 $\chi^2/\text{NDF}: 7.0/4$

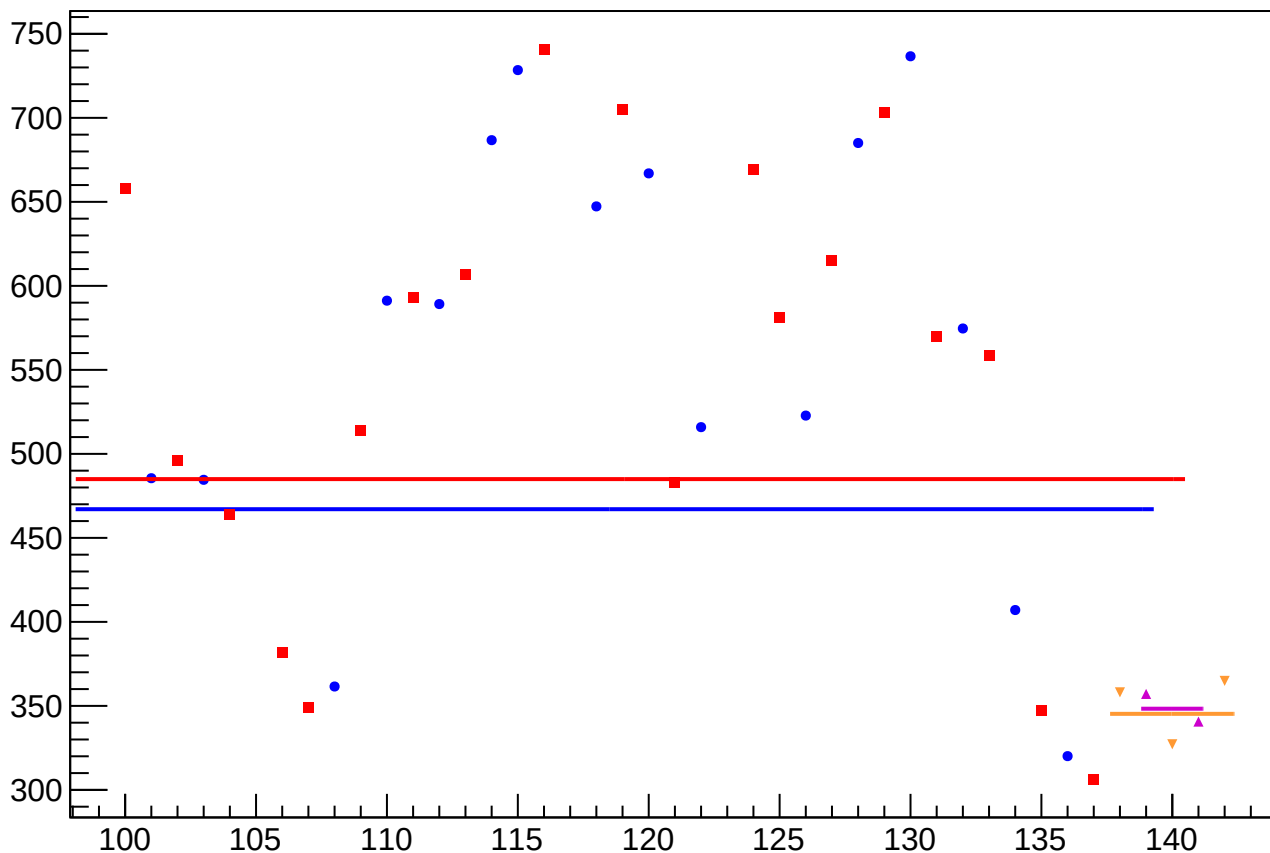
Right: -184.806 ± 128.573 $\chi^2/\text{NDF}: 32.3/34$

In: -228.752 ± 149.253 $\chi^2/\text{NDF}: 17.0/17$

Out: 25.384 ± 145.802 $\chi^2/\text{NDF}: 22.1/21$

All: -98.712 ± 104.296 $\chi^2/\text{NDF}: 40.6/39$

asym_sam_13_57_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 467.068 $\pm$ 0.128 χ^2 /NDF: 1030279.0/15

Left Out: 345.266 $\pm$ 0.170 χ^2 /NDF:9679.1/2

Right Out: 484.982 $\pm$ 0.129 χ^2 /NDF: 874102.2/18

Left In: 348.322 $\pm$ 0.187 χ^2 /NDF:1921.1/1

Left: 346.649 $\pm$ 0.126 χ^2 /NDF: 11745.6/4

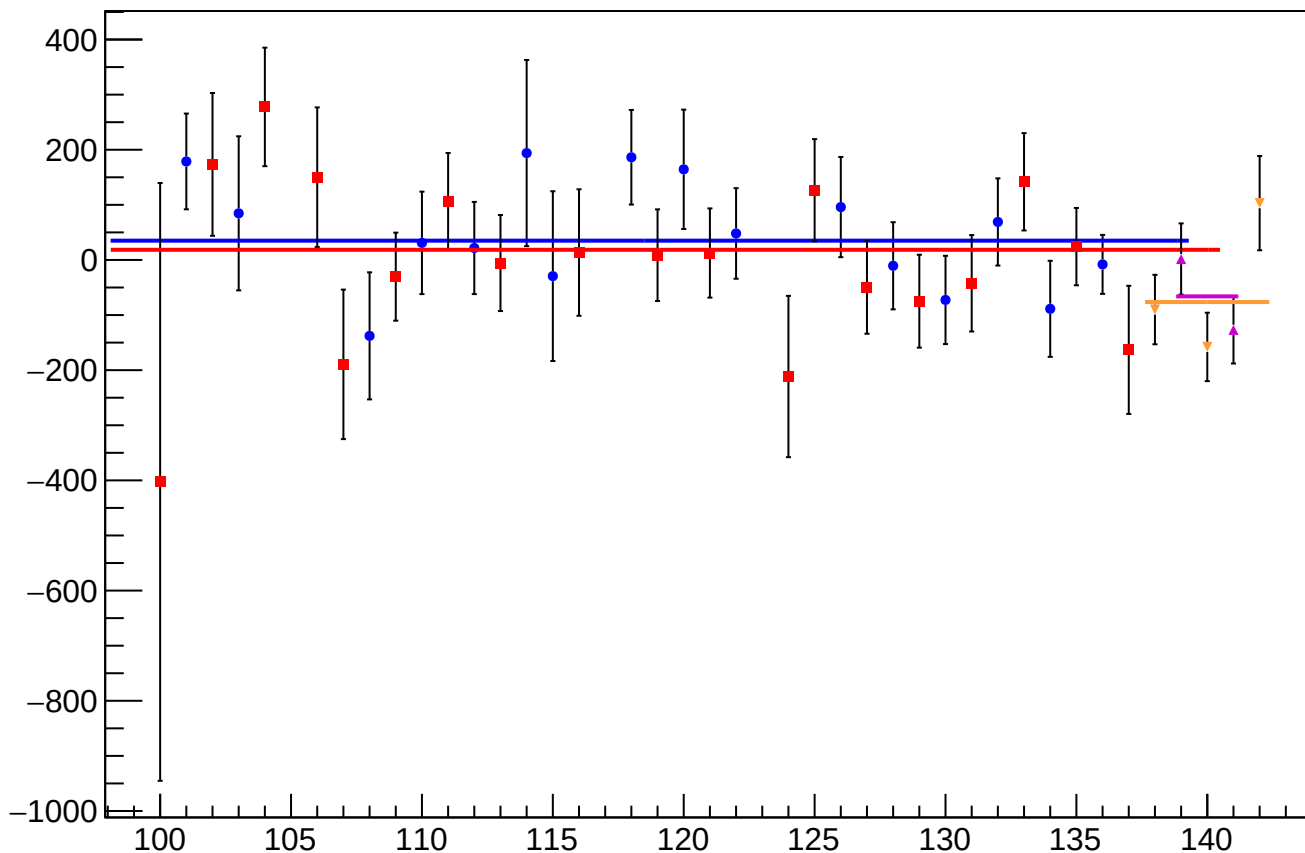
Right: 475.902 $\pm$ 0.091 χ^2 /NDF: 1914085.4/34

In: 429.423 $\pm$ 0.106 χ^2 /NDF:1306308.8/17

Out: 433.872 $\pm$ 0.103 χ^2 /NDF:1309840.9/21

All: 431.699 $\pm$ 0.074 χ^2 /NDF: 2617059.2/39

cor_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 35.017 $\pm$ 22.134 χ^2 /NDF: 16.2/15

Left Out: -76.409 $\pm$ 39.281 χ^2 /NDF:6.2/2

Right Out: 18.417 $\pm$ 22.141 χ^2 /NDF: 23.4/18

Left In: -66.123 $\pm$ 44.405 χ^2 /NDF:2.1/1

Left: -71.894 $\pm$ 29.421 χ^2 /NDF: 8.3/4

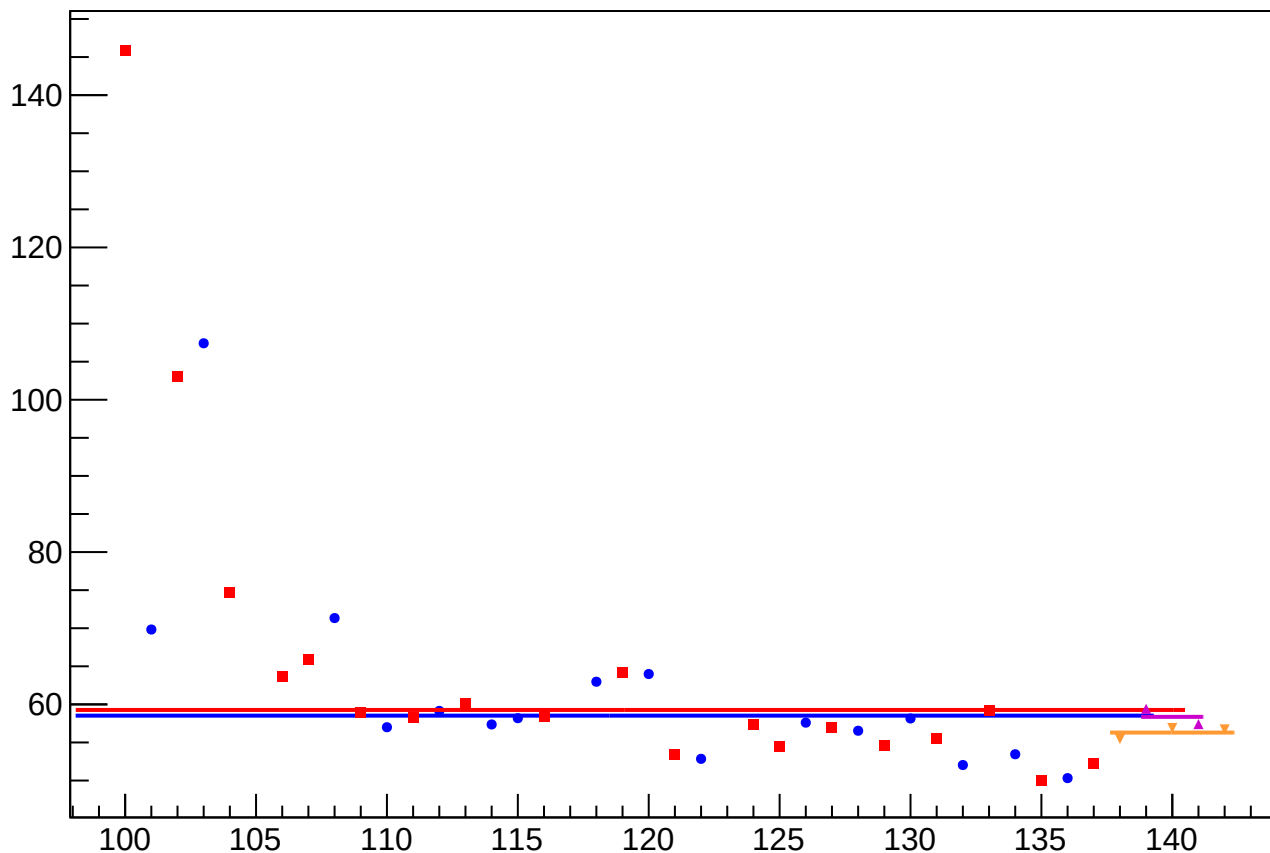
Right: 26.719 $\pm$ 15.654 χ^2 /NDF: 39.8/34

In: 14.888 $\pm$ 19.810 χ^2 /NDF:22.4/17

Out: -4.447 $\pm$ 19.288 χ^2 /NDF:34.0/21

All: 4.963 $\pm$ 13.819 χ^2 /NDF: 56.9/39

cor_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 58.522 $\pm$ 0.016 χ^2 /NDF: 392744.5/15

Left Out: 56.299 $\pm$ 0.028 χ^2 /NDF: 597.8/2

Right Out: 59.269 $\pm$ 0.016 χ^2 /NDF: 405616.3/18

Left In: 58.363 $\pm$ 0.031 χ^2 /NDF: 1021.6/1

Left: 57.205 $\pm$ 0.021 χ^2 /NDF: 4043.9/4

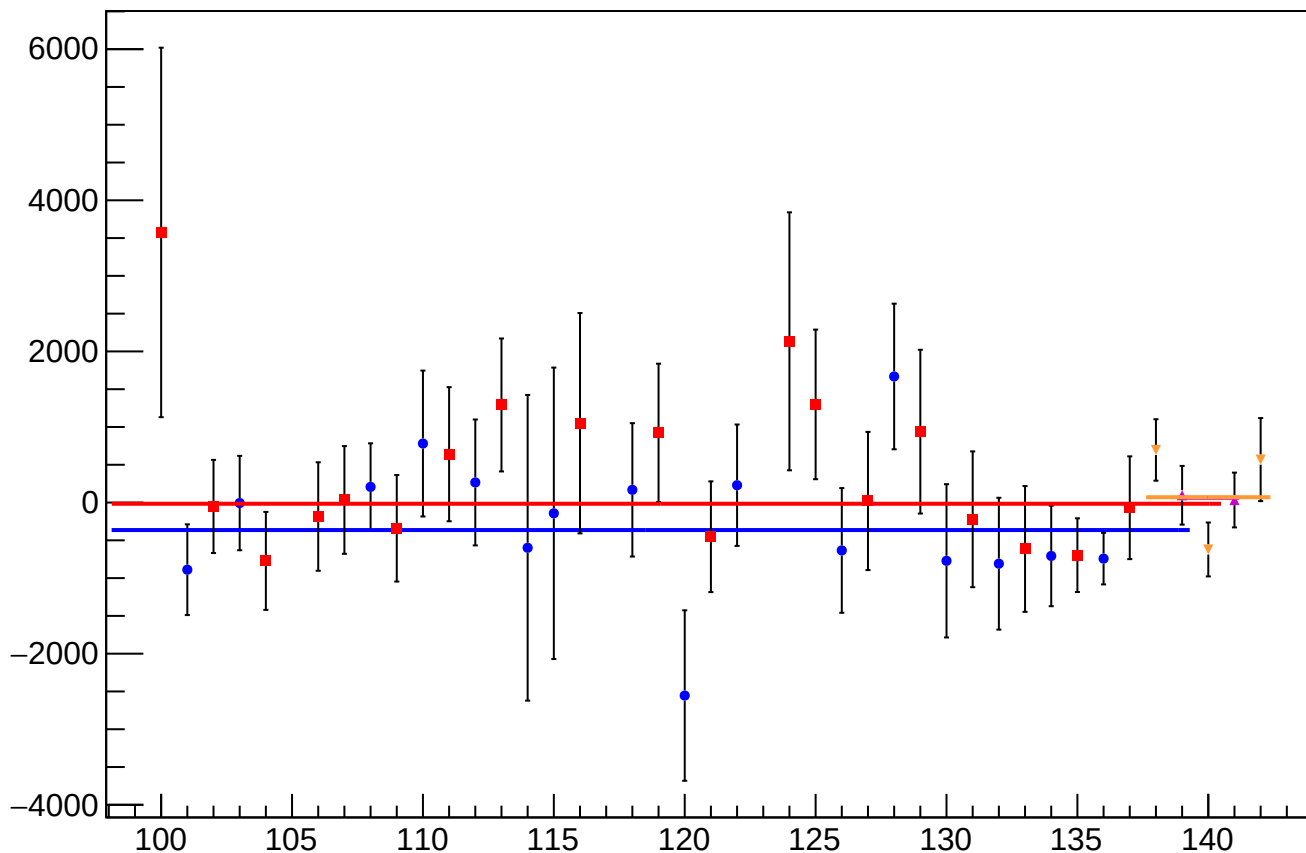
Right: 58.895 $\pm$ 0.011 χ^2 /NDF: 799501.8/34

In: 58.490 $\pm$ 0.014 χ^2 /NDF: 393786.5/17

Out: 58.553 $\pm$ 0.014 χ^2 /NDF: 414894.2/21

All: 58.522 $\pm$ 0.010 χ^2 /NDF: 808691.2/39

asym_sam_13_57_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -364.040 $\pm$ 180.602 χ^2 /NDF: 15.2/15

Left Out: 70.375 $\pm$ 241.065 χ^2 /NDF:6.9/2

Right Out: -16.087 $\pm$ 183.650 χ^2 /NDF: 15.1/18

Left In: 62.786 $\pm$ 265.079 χ^2 /NDF:0.0/1

Left: 66.939 $\pm$ 178.345 χ^2 /NDF: 7.0/4

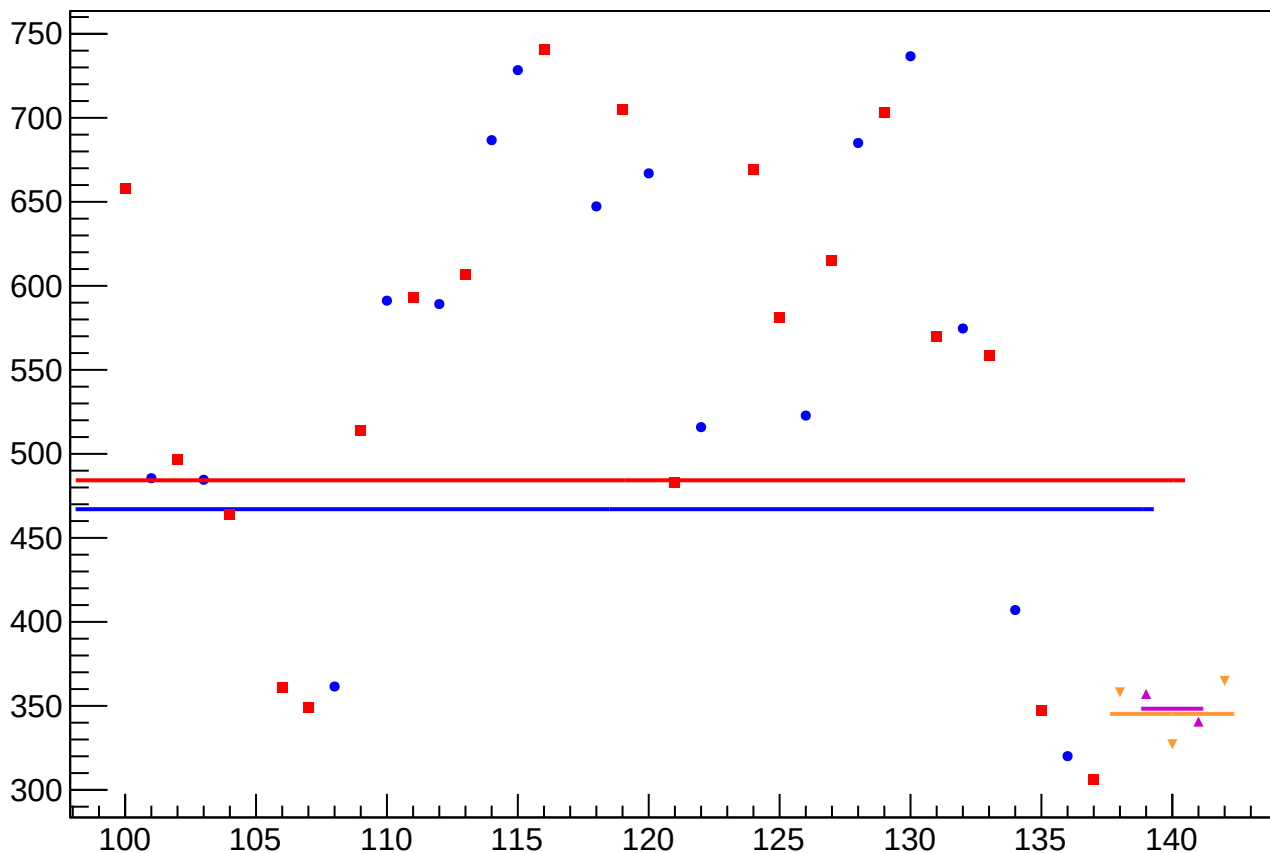
Right: -192.975 $\pm$ 128.769 χ^2 /NDF: 32.2/34

In: -228.724 $\pm$ 149.253 χ^2 /NDF:17.0/17

Out: 15.666 $\pm$ 146.087 χ^2 /NDF:22.2/21

All: -103.909 $\pm$ 104.400 χ^2 /NDF: 40.5/39

asym_sam_13_57_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 467.071+/-0.128 χ^2/NDF : 1030281.3/15

Left Out: 345.266+/-0.170 χ^2/NDF : 9679.4/2

Right Out: 484.274+/-0.130 χ^2/NDF : 888797.2/18

Left In: 348.322+/-0.187 χ^2/NDF : 1921.1/1

Left: 346.649+/-0.126 χ^2/NDF : 11746.0/4

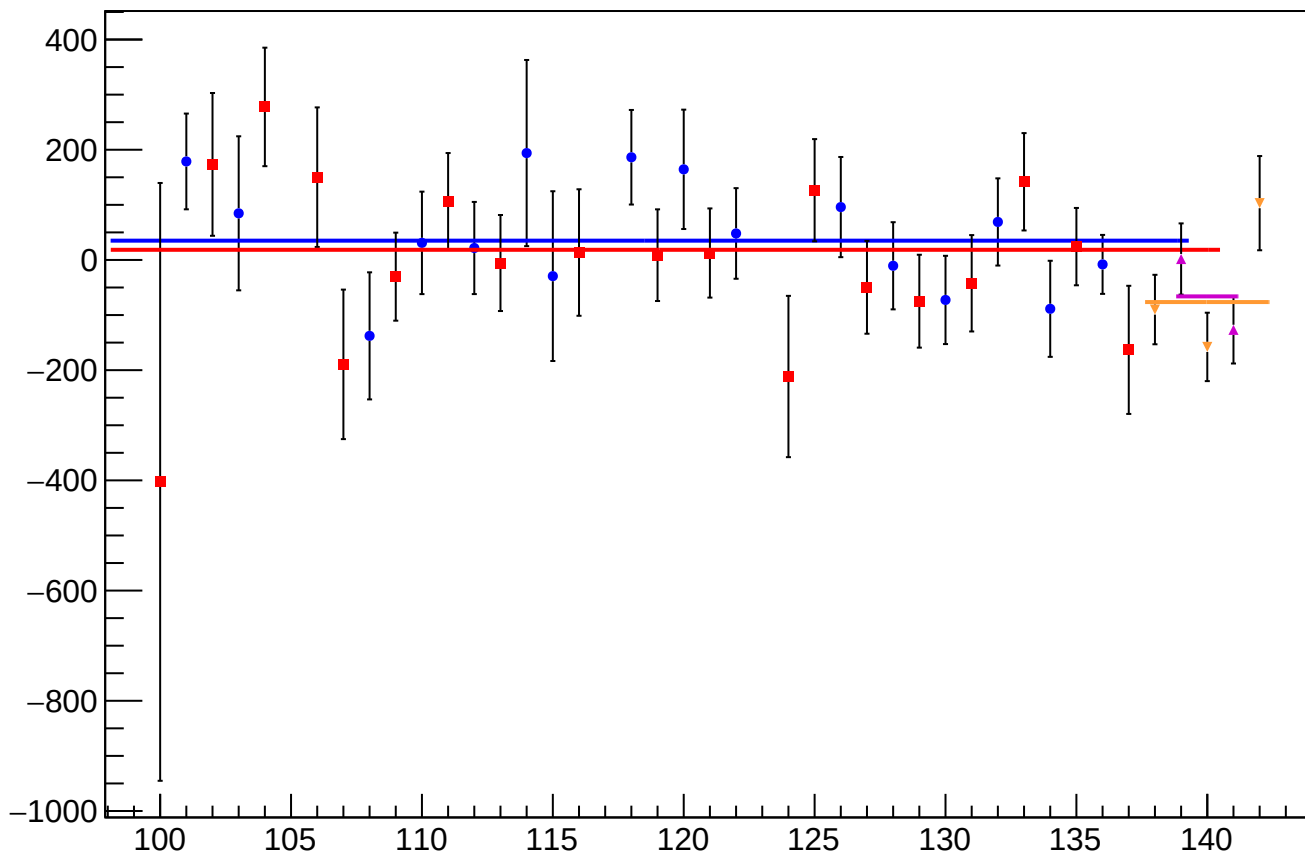
Right: 475.528+/-0.091 χ^2/NDF : 1928000.1/34

In: 429.424+/-0.106 χ^2/NDF : 1306322.6/17

Out: 433.224+/-0.103 χ^2/NDF : 1319278.0/21

All: 431.365+/-0.074 χ^2/NDF : 2626262.8/39

eigen_cor_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 35.017 $\pm$ 22.134 χ^2 /NDF: 16.2/15

Left Out: -76.409 $\pm$ 39.281 χ^2 /NDF:6.2/2

Right Out: 18.417 $\pm$ 22.141 χ^2 /NDF: 23.4/18

Left In: -66.123 $\pm$ 44.405 χ^2 /NDF:2.1/1

Left: -71.894 $\pm$ 29.421 χ^2 /NDF: 8.3/4

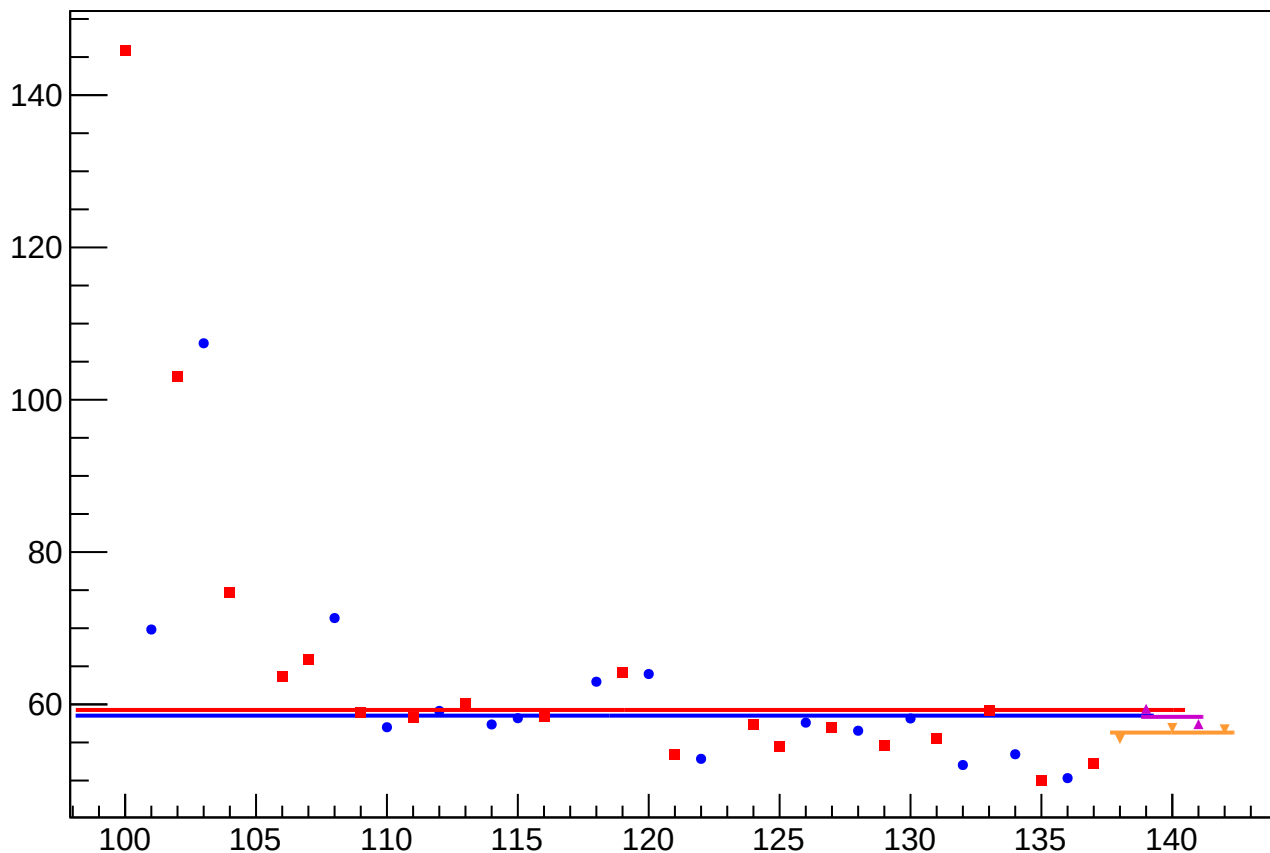
Right: 26.719 $\pm$ 15.654 χ^2 /NDF: 39.8/34

In: 14.888 $\pm$ 19.810 χ^2 /NDF:22.4/17

Out: -4.447 $\pm$ 19.288 χ^2 /NDF:34.0/21

All: 4.963 $\pm$ 13.819 χ^2 /NDF: 56.9/39

eigen_cor_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 58.522 $\pm$ 0.016 χ^2 /NDF: 392744.5/15

Left Out: 56.299 $\pm$ 0.028 χ^2 /NDF: 597.8/2

Right Out: 59.269 $\pm$ 0.016 χ^2 /NDF: 405616.3/18

Left In: 58.363 $\pm$ 0.031 χ^2 /NDF: 1021.6/1

Left: 57.205 $\pm$ 0.021 χ^2 /NDF: 4043.9/4

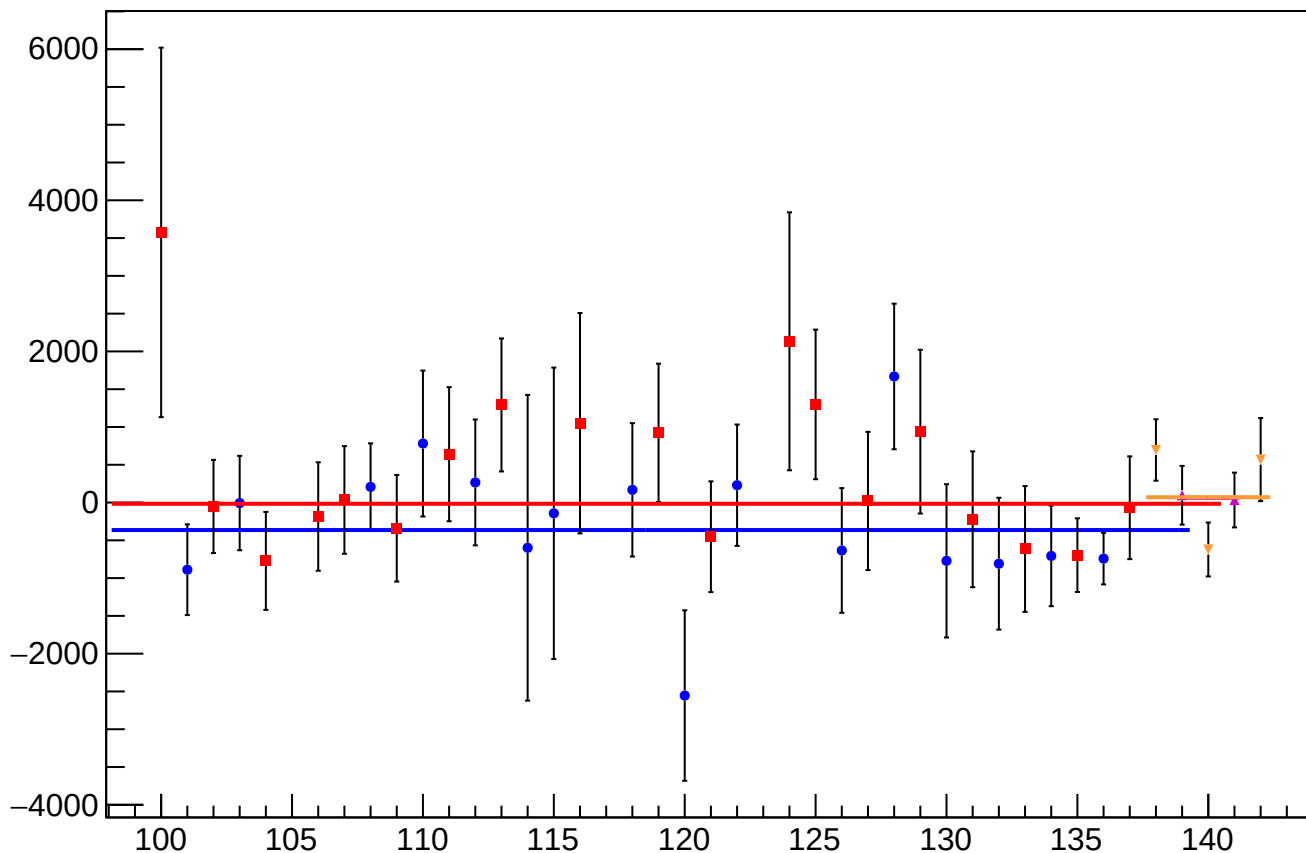
Right: 58.895 $\pm$ 0.011 χ^2 /NDF: 799501.8/34

In: 58.490 $\pm$ 0.014 χ^2 /NDF: 393786.5/17

Out: 58.553 $\pm$ 0.014 χ^2 /NDF: 414894.2/21

All: 58.522 $\pm$ 0.010 χ^2 /NDF: 808691.2/39

asym_sam_13_57_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -364.040 $\pm$ 180.602 χ^2 /NDF: 15.2/15

Left Out: 70.375 $\pm$ 241.065 χ^2 /NDF:6.9/2

Right Out: -16.087 $\pm$ 183.650 χ^2 /NDF: 15.1/18

Left In: 62.786 $\pm$ 265.079 χ^2 /NDF:0.0/1

Left: 66.939 $\pm$ 178.345 χ^2 /NDF: 7.0/4

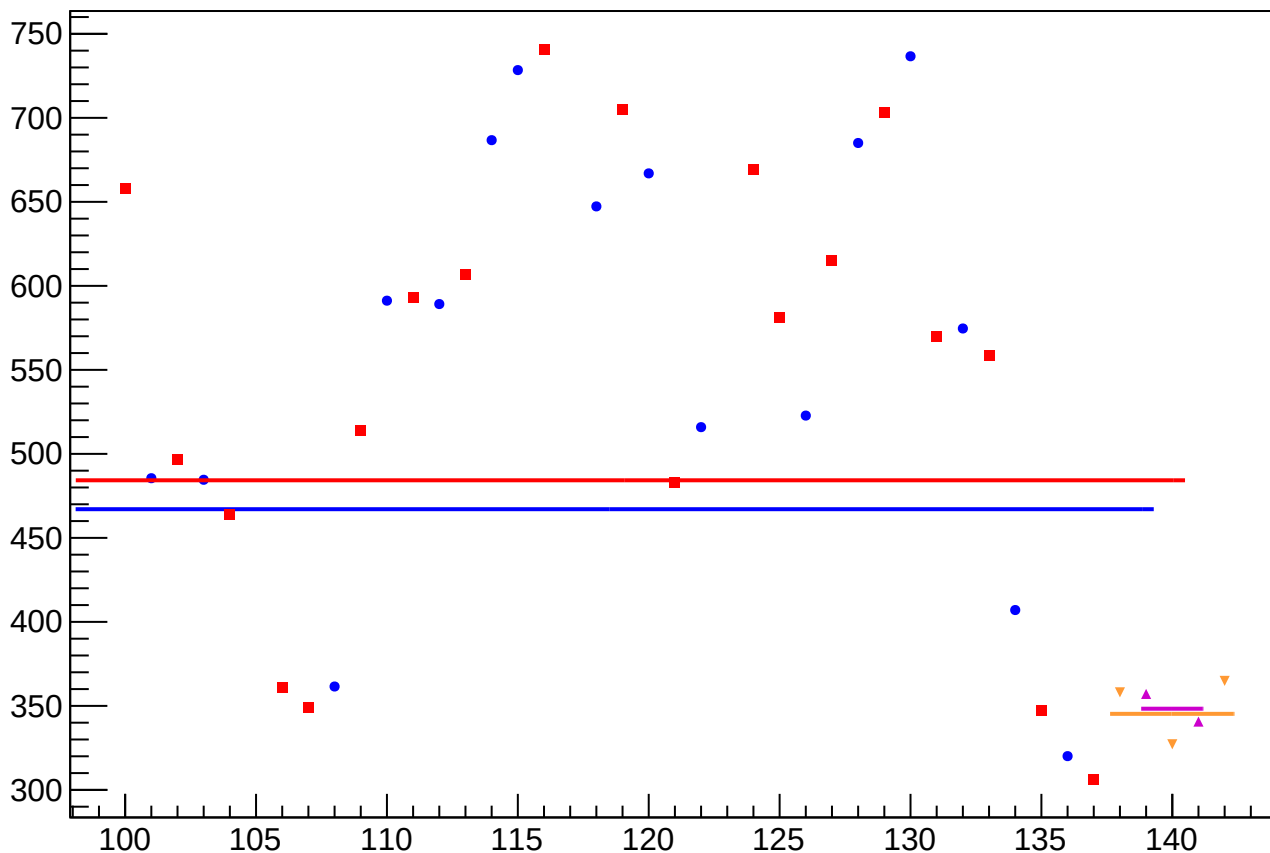
Right: -192.975 $\pm$ 128.769 χ^2 /NDF: 32.2/34

In: -228.724 $\pm$ 149.253 χ^2 /NDF:17.0/17

Out: 15.666 $\pm$ 146.087 χ^2 /NDF:22.2/21

All: -103.909 $\pm$ 104.400 χ^2 /NDF: 40.5/39

asym_sam_13_57_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 467.071 $\pm$ 0.128 χ^2 /NDF: 1030281.3/15

Left Out: 345.266 $\pm$ 0.170 χ^2 /NDF: 9679.4/2

Right Out: 484.274 $\pm$ 0.130 χ^2 /NDF: 888797.2/18

Left In: 348.322 $\pm$ 0.187 χ^2 /NDF: 1921.1/1

Left: 346.649 $\pm$ 0.126 χ^2 /NDF: 11746.0/4

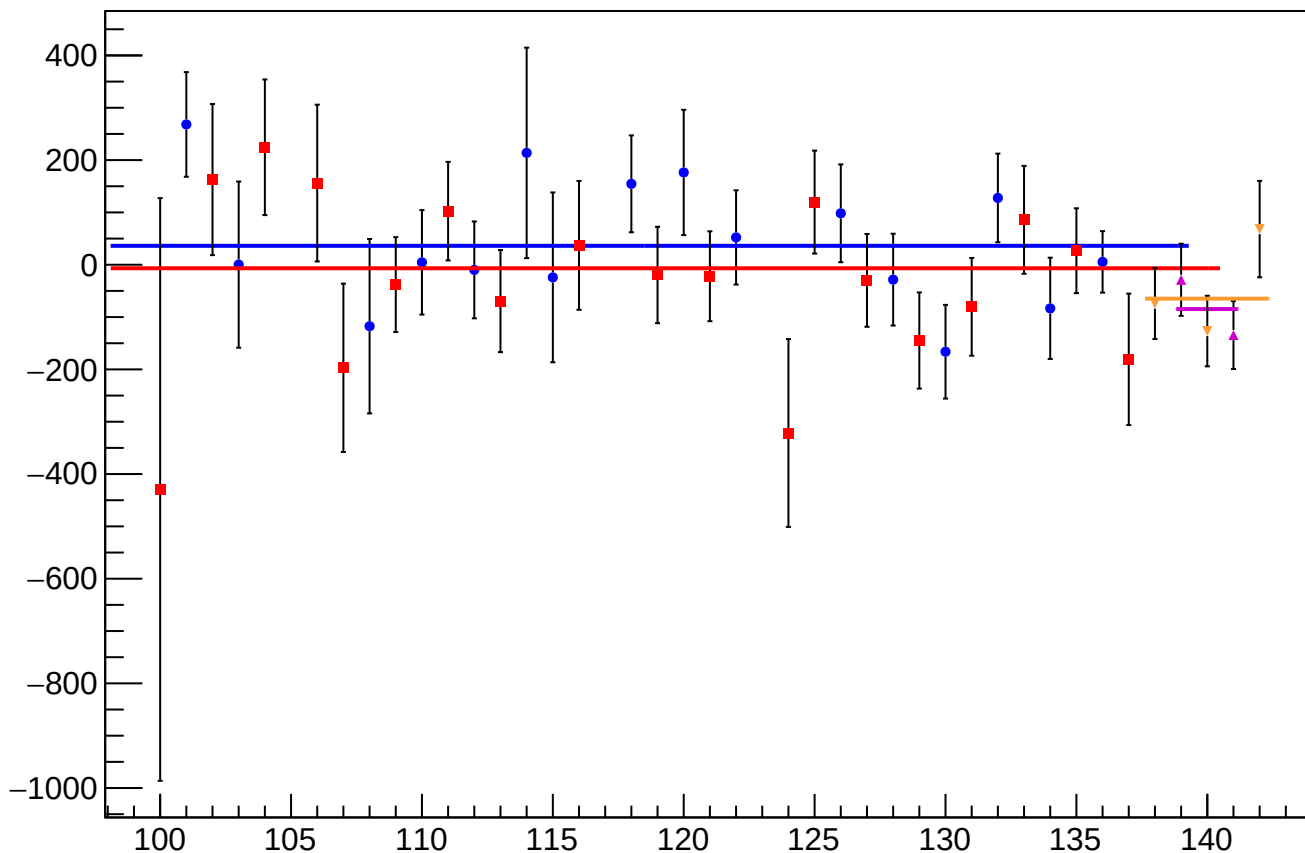
Right: 475.528 $\pm$ 0.091 χ^2 /NDF: 1928000.1/34

In: 429.424 $\pm$ 0.106 χ^2 /NDF: 1306322.6/17

Out: 433.224 $\pm$ 0.103 χ^2 /NDF: 1319278.0/21

All: 431.365 $\pm$ 0.074 χ^2 /NDF: 2626262.8/39

dit_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 36.157 ± 24.471 $\chi^2/\text{NDF}: 19.6/15$

Left Out: -64.835 ± 42.406 $\chi^2/\text{NDF}: 2.9/2$

Right Out: -6.734 ± 24.565 $\chi^2/\text{NDF}: 20.3/18$

Left In: -84.713 ± 47.244 $\chi^2/\text{NDF}: 1.2/1$

Left: -73.704 ± 31.558 $\chi^2/\text{NDF}: 4.3/4$

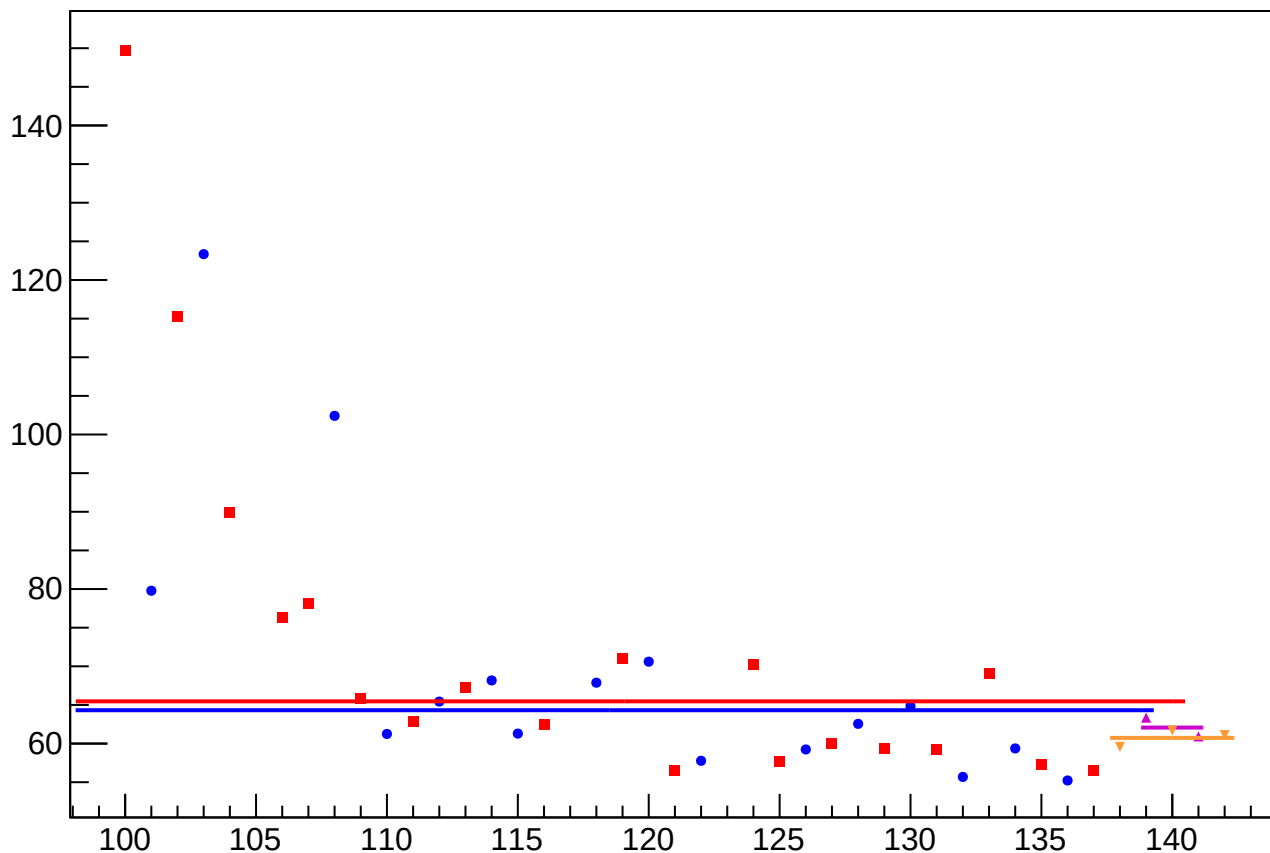
Right: 14.793 ± 17.337 $\chi^2/\text{NDF}: 41.5/34$

In: 10.588 ± 21.729 $\chi^2/\text{NDF}: 26.1/17$

Out: -21.332 ± 21.256 $\chi^2/\text{NDF}: 24.7/21$

All: -5.724 ± 15.195 $\chi^2/\text{NDF}: 51.9/39$

dit_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.316+/-0.017 χ^2/NDF : 532065.0/15

Left Out: 60.736+/-0.030 χ^2/NDF : 1033.5/2

Right Out: 65.466+/-0.017 χ^2/NDF : 482361.0/18

Left In: 62.071+/-0.033 χ^2/NDF : 1315.9/1

Left: 61.332+/-0.022 χ^2/NDF : 3233.3/4

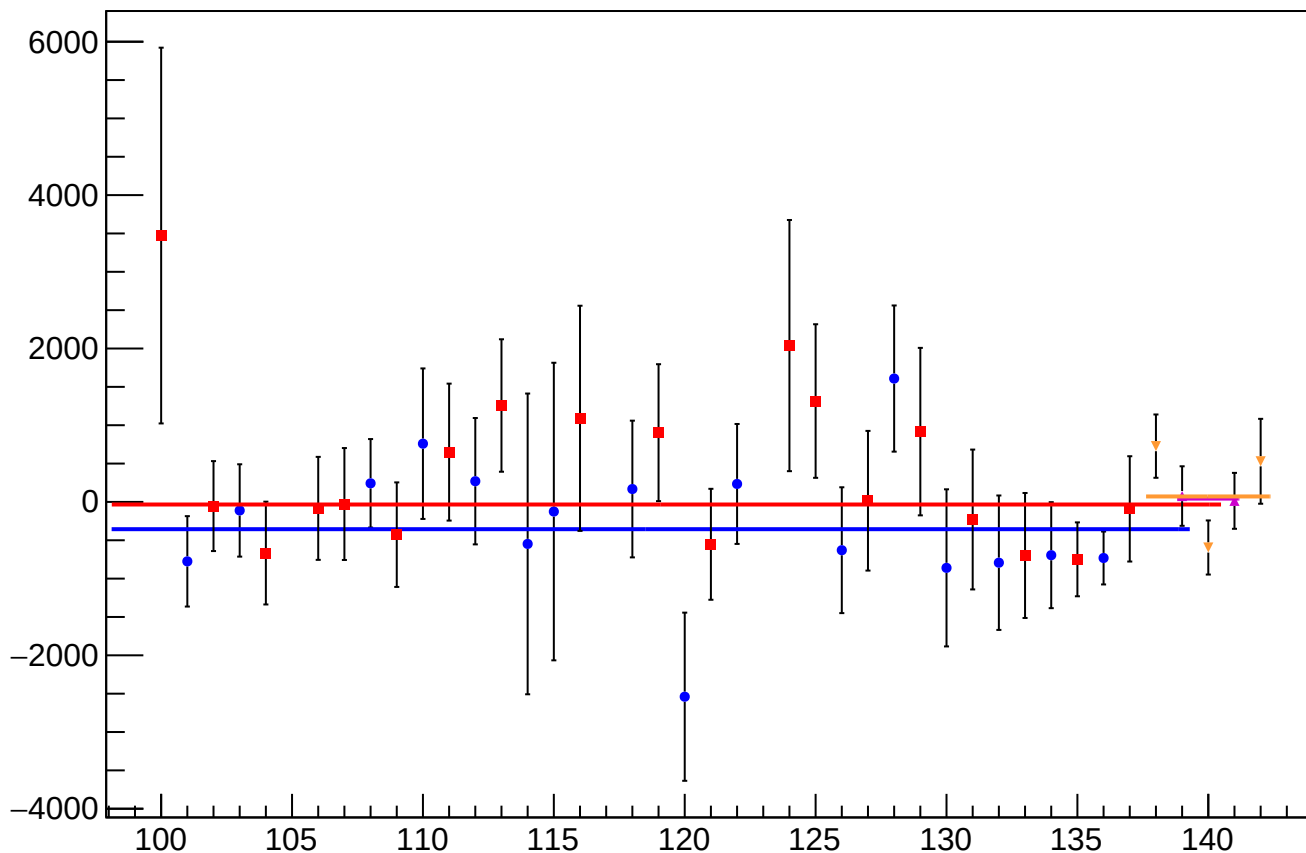
Right: 64.889+/-0.012 χ^2/NDF : 1016625.1/34

In: 63.841+/-0.015 χ^2/NDF : 536942.8/17

Out: 64.278+/-0.015 χ^2/NDF : 502023.4/21

All: 64.064+/-0.011 χ^2/NDF : 1039378.4/39

asym_sam_13_57_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.529 ± 180.335 χ^2/NDF : 14.8/15

Left Out: 71.195 ± 241.303 χ^2/NDF : 6.8/2

Right Out: -33.786 ± 181.561 χ^2/NDF : 15.4/18

Left In: 43.298 ± 265.733 χ^2/NDF : 0.0/1

Left: 58.587 ± 178.641 χ^2/NDF : 6.8/4

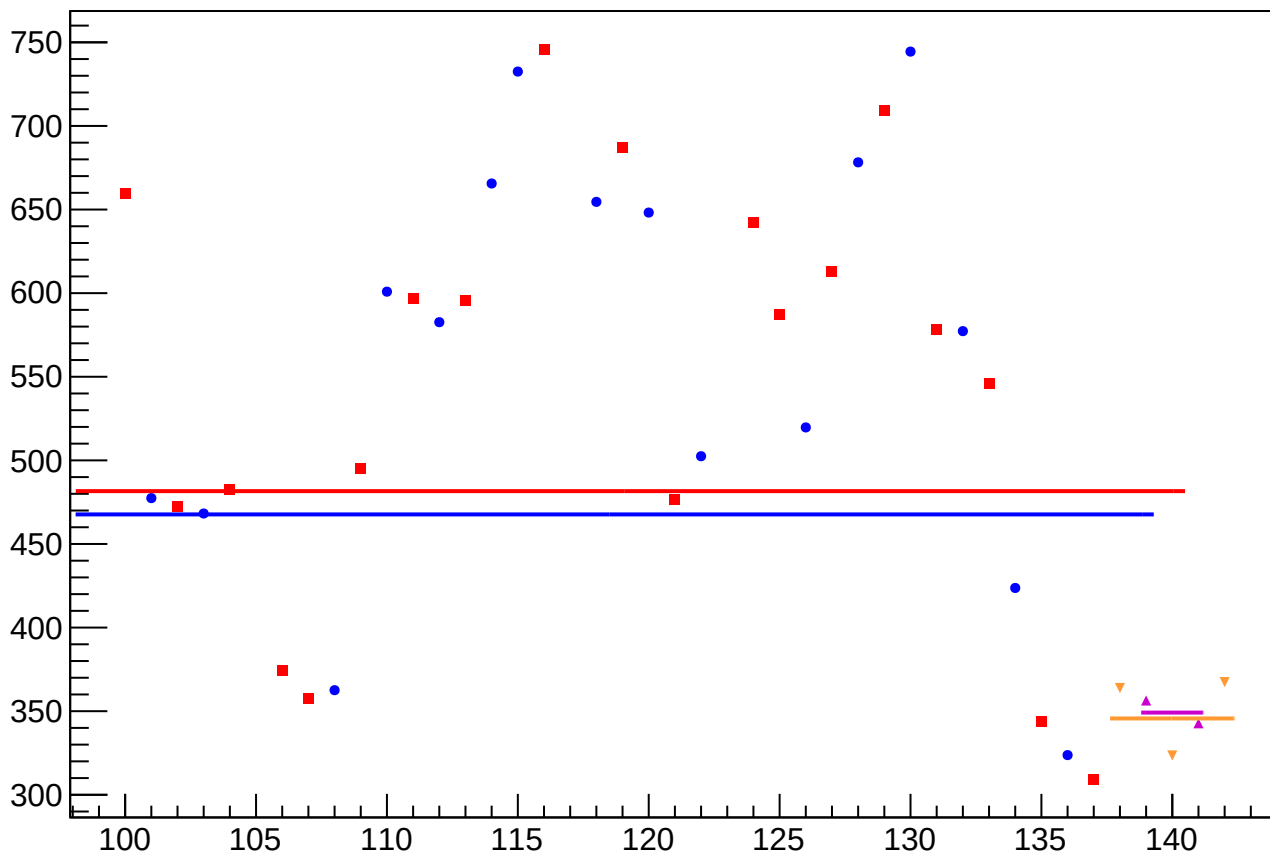
Right: -195.748 ± 127.947 χ^2/NDF : 31.8/34

In: -229.770 ± 149.218 χ^2/NDF : 16.4/17

Out: 4.163 ± 145.080 χ^2/NDF : 22.3/21

All: -109.515 ± 104.019 χ^2/NDF : 39.9/39

asym_sam_13_57_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 467.674 $\pm$ 0.128 χ^2 /NDF: 985943.7/15

Left Out: 345.658 $\pm$ 0.171 χ^2 /NDF:14857.9/2

Right Out: 481.599 $\pm$ 0.128 χ^2 /NDF: 854281.1/18

Left In: 349.159 $\pm$ 0.188 χ^2 /NDF:1311.5/1

Left: 347.241 $\pm$ 0.126 χ^2 /NDF: 16359.6/4

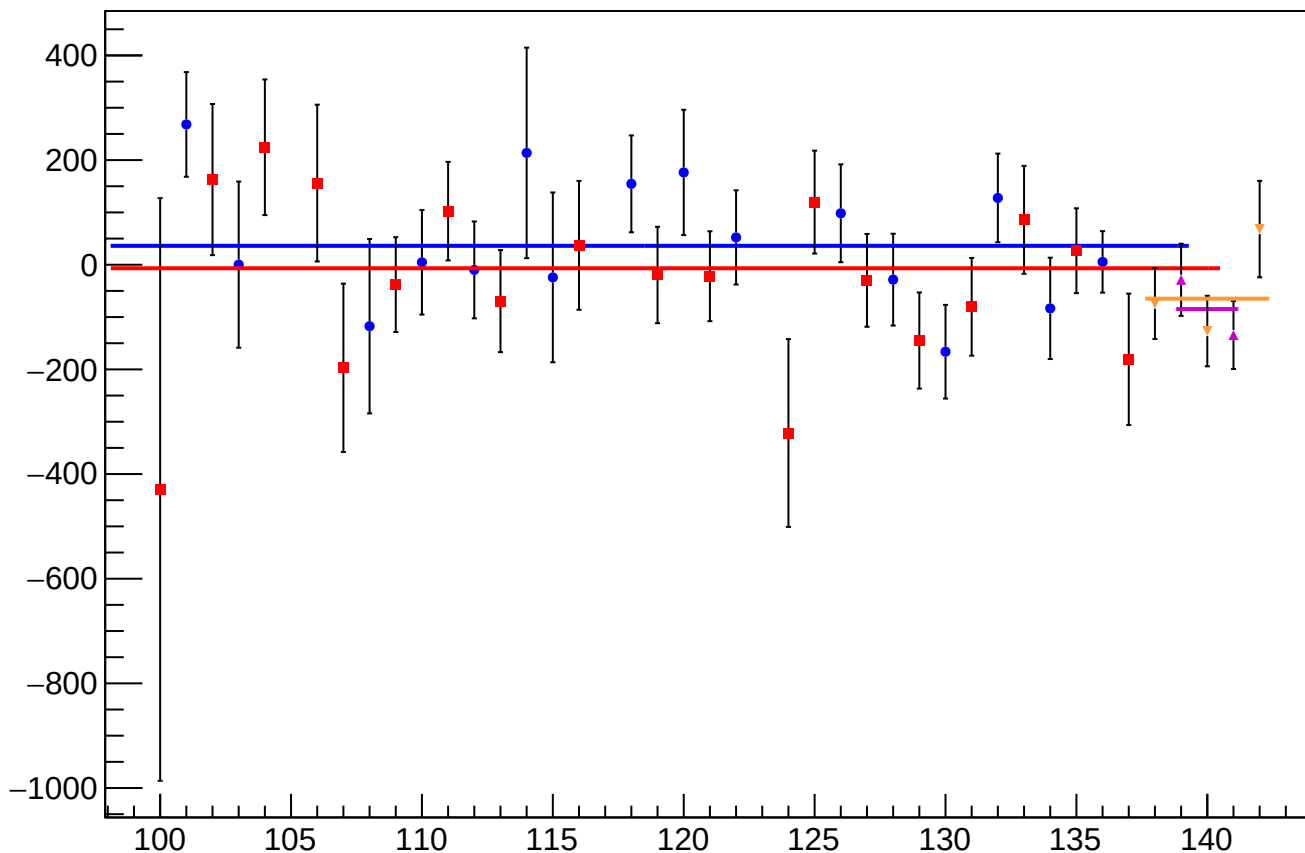
Right: 474.590 $\pm$ 0.090 χ^2 /NDF: 1846147.0/34

In: 430.304 $\pm$ 0.106 χ^2 /NDF:1259634.7/17

Out: 432.459 $\pm$ 0.103 χ^2 /NDF:1274438.4/21

All: 431.412 $\pm$ 0.074 χ^2 /NDF: 2534287.5/39

eigen_dit_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 36.157 ± 24.471 χ^2/NDF : 19.6/15

Left Out: -64.834 ± 42.406 χ^2/NDF : 2.9/2

Right Out: -6.735 ± 24.565 χ^2/NDF : 20.3/18

Left In: -84.712 ± 47.244 χ^2/NDF : 1.2/1

Left: -73.703 ± 31.558 χ^2/NDF : 4.3/4

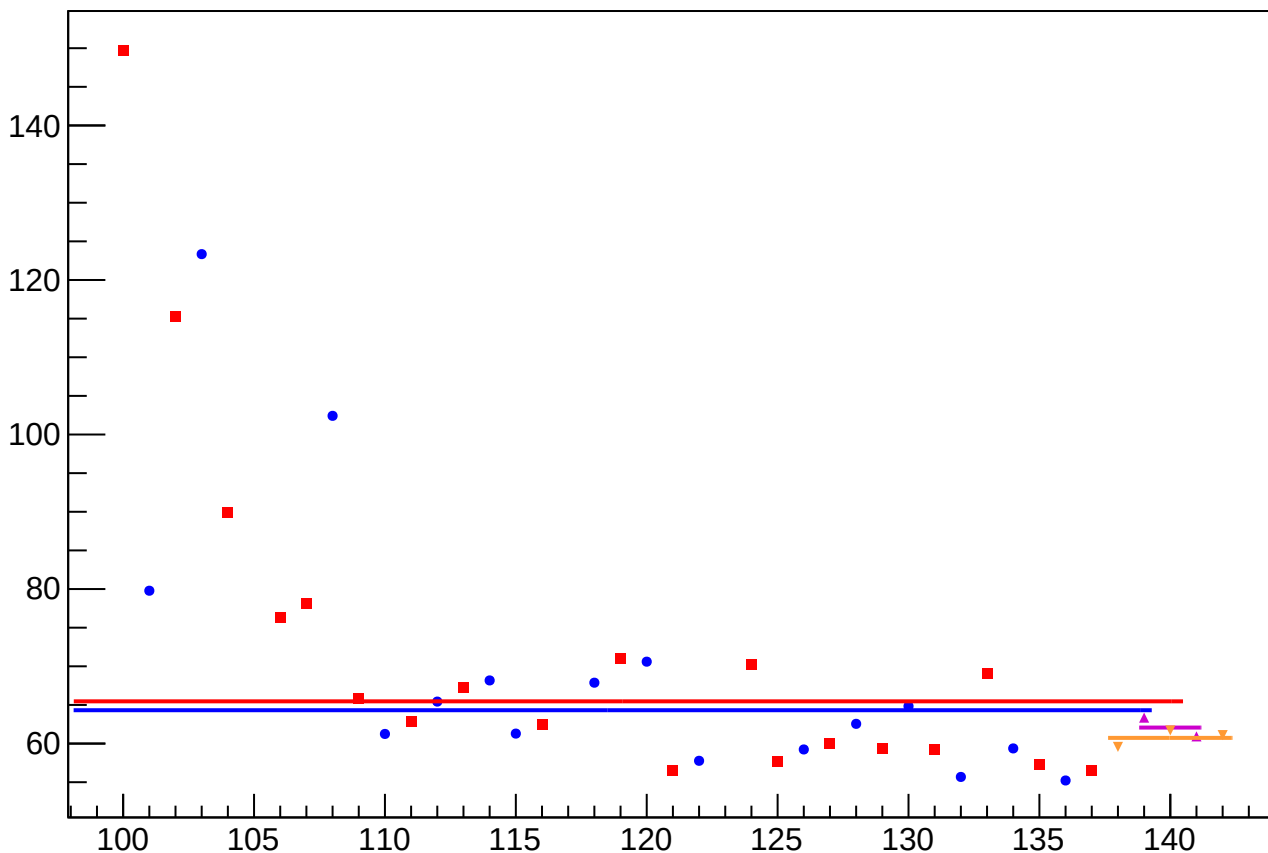
Right: 14.793 ± 17.337 χ^2/NDF : 41.5/34

In: 10.588 ± 21.729 χ^2/NDF : 26.1/17

Out: -21.332 ± 21.256 χ^2/NDF : 24.7/21

All: -5.723 ± 15.195 χ^2/NDF : 51.9/39

eigen_dit_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.316+/-0.017 χ^2/NDF : 532073.4/15

Left Out: 60.736+/-0.030 χ^2/NDF : 1033.4/2

Right Out: 65.466+/-0.017 χ^2/NDF : 482367.1/18

Left In: 62.071+/-0.033 χ^2/NDF : 1315.7/1

Left: 61.332+/-0.022 χ^2/NDF : 3233.1/4

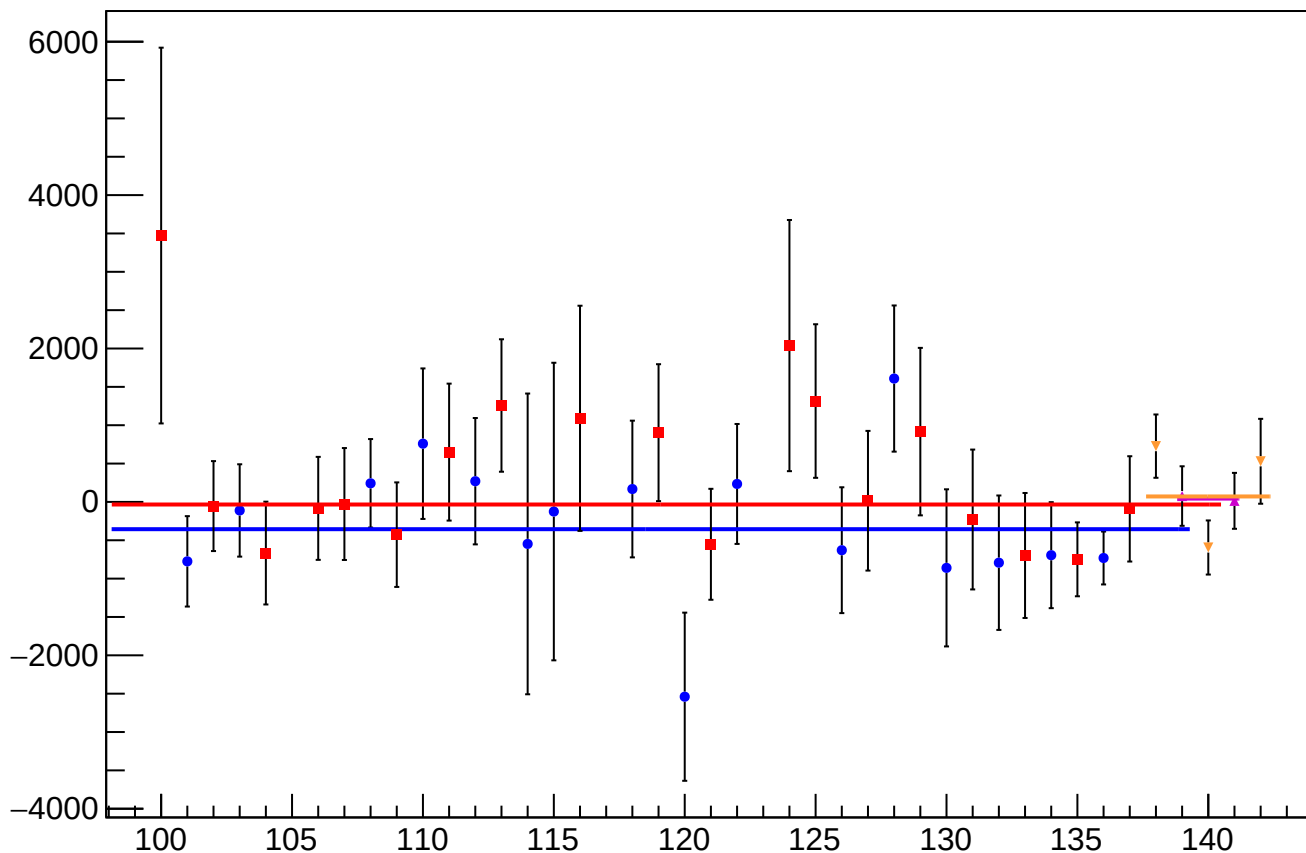
Right: 64.889+/-0.012 χ^2/NDF : 1016639.7/34

In: 63.841+/-0.015 χ^2/NDF : 536950.4/17

Out: 64.278+/-0.015 χ^2/NDF : 502027.9/21

All: 64.064+/-0.011 χ^2/NDF : 1039390.5/39

asym_sam_13_57_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.529+/-180.334 χ^2/NDF : 14.8/15

Left Out: 71.194+/-241.304 χ^2/NDF : 6.8/2

Right Out: -33.787+/-181.560 χ^2/NDF : 15.4/18

Left In: 43.298+/-265.733 χ^2/NDF : 0.0/1

Left: 58.587+/-178.641 χ^2/NDF : 6.8/4

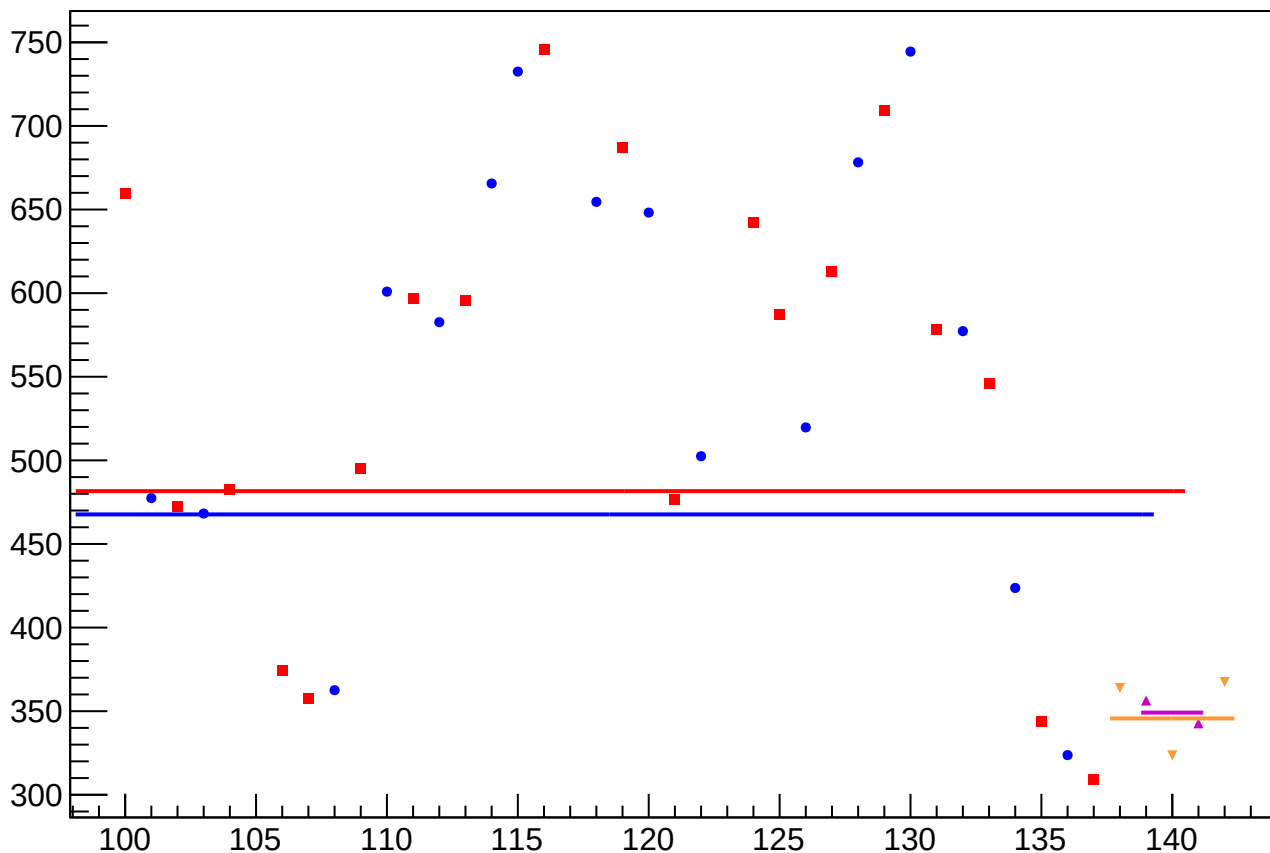
Right: -195.748+/-127.947 χ^2/NDF : 31.8/34

In: -229.770+/-149.218 χ^2/NDF : 16.4/17

Out: 4.162+/-145.080 χ^2/NDF : 22.3/21

All: -109.515+/-104.019 χ^2/NDF : 39.9/39

asym_sam_13_57_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 467.674 $\pm$ 0.128 χ^2 /NDF: 985945.4/15

Left Out: 345.659 $\pm$ 0.171 χ^2 /NDF:14858.3/2

Right Out: 481.599 $\pm$ 0.128 χ^2 /NDF: 854281.0/18

Left In: 349.160 $\pm$ 0.188 χ^2 /NDF:1311.6/1

Left: 347.241 $\pm$ 0.126 χ^2 /NDF: 16360.1/4

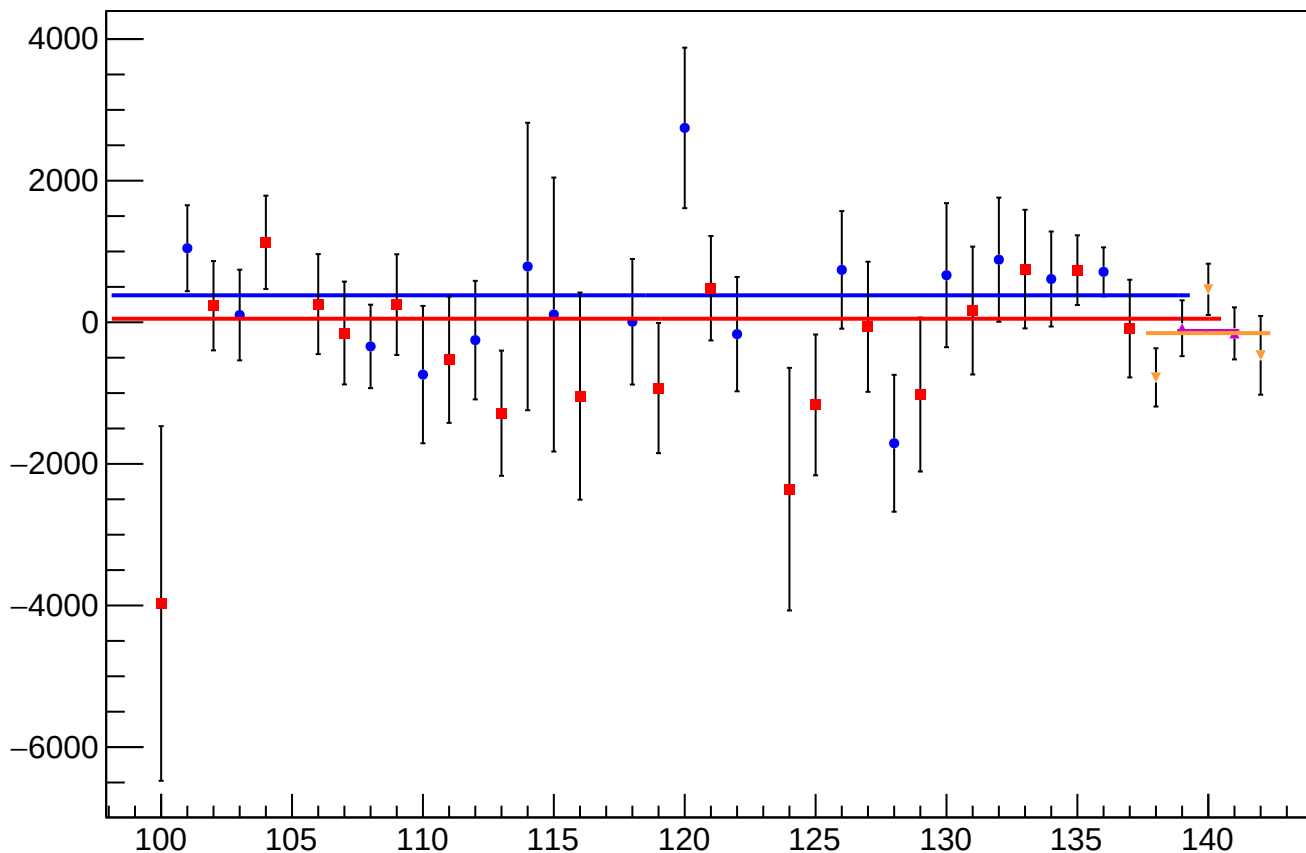
Right: 474.589 $\pm$ 0.090 χ^2 /NDF: 1846148.4/34

In: 430.304 $\pm$ 0.106 χ^2 /NDF:1259630.3/17

Out: 432.459 $\pm$ 0.103 χ^2 /NDF:1274429.5/21

All: 431.412 $\pm$ 0.074 χ^2 /NDF: 2534274.2/39

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 381.086 $\pm$ 182.655 χ^2 /NDF: 16.1/15

Left Out: -152.693 $\pm$ 244.324 χ^2 /NDF: 5.5/2

Right Out: 50.392 $\pm$ 185.262 χ^2 /NDF: 17.5/18

Left In: -122.918 $\pm$ 268.802 χ^2 /NDF: 0.0/1

Left: -139.223 $\pm$ 180.799 χ^2 /NDF: 5.6/4

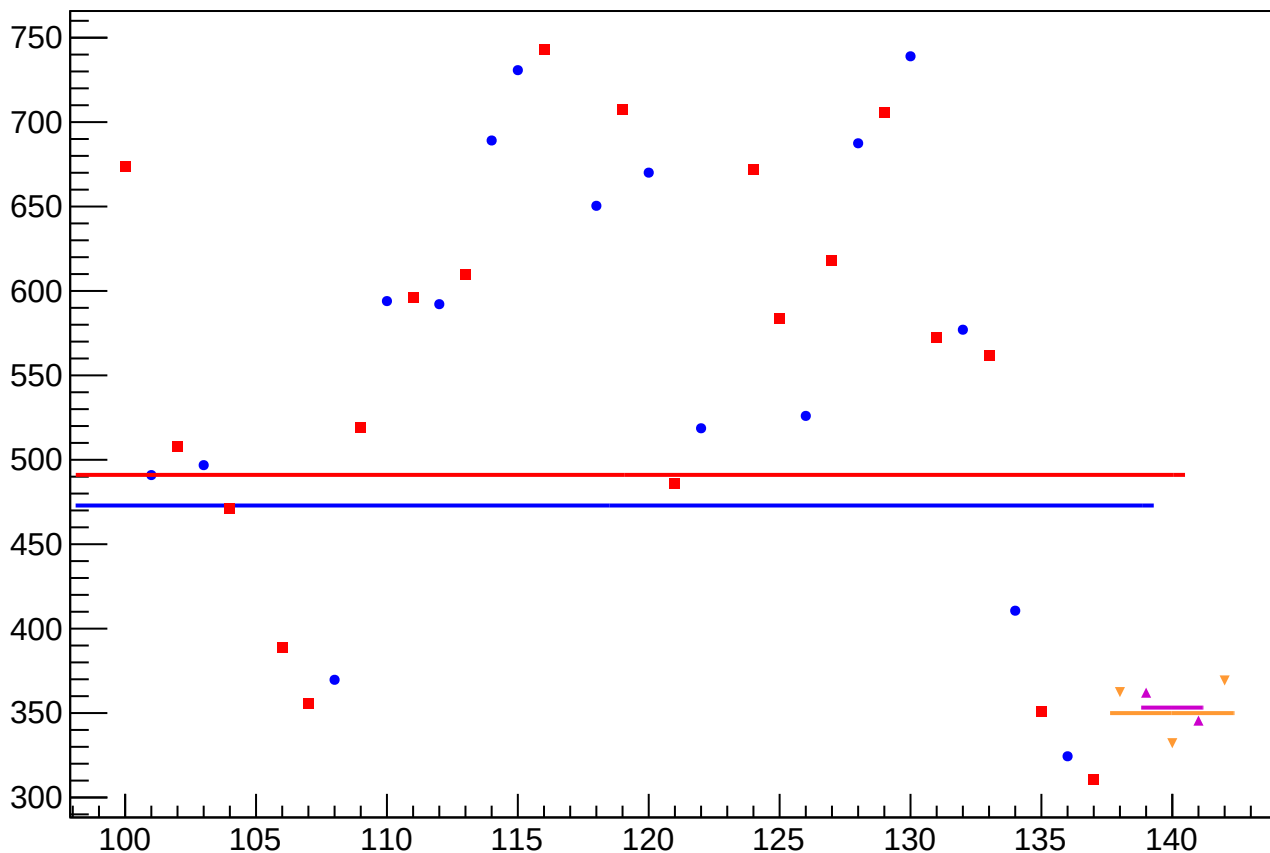
Right: 218.082 $\pm$ 130.069 χ^2 /NDF: 35.2/34

In: 221.879 $\pm$ 151.077 χ^2 /NDF: 18.6/17

Out: -23.747 $\pm$ 147.622 χ^2 /NDF: 23.5/21

All: 96.226 $\pm$ 105.585 χ^2 /NDF: 43.4/39

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 472.924 +/- 0.129 χ^2/NDF : 1000274.3/15

Left Out: 349.971 +/- 0.173 χ^2/NDF : 9084.1/2

Right Out: 491.063 +/- 0.131 χ^2/NDF : 847493.6/18

Left In: 353.227 +/- 0.190 χ^2/NDF : 1885.3/1

Left: 351.444 +/- 0.128 χ^2/NDF : 11130.0/4

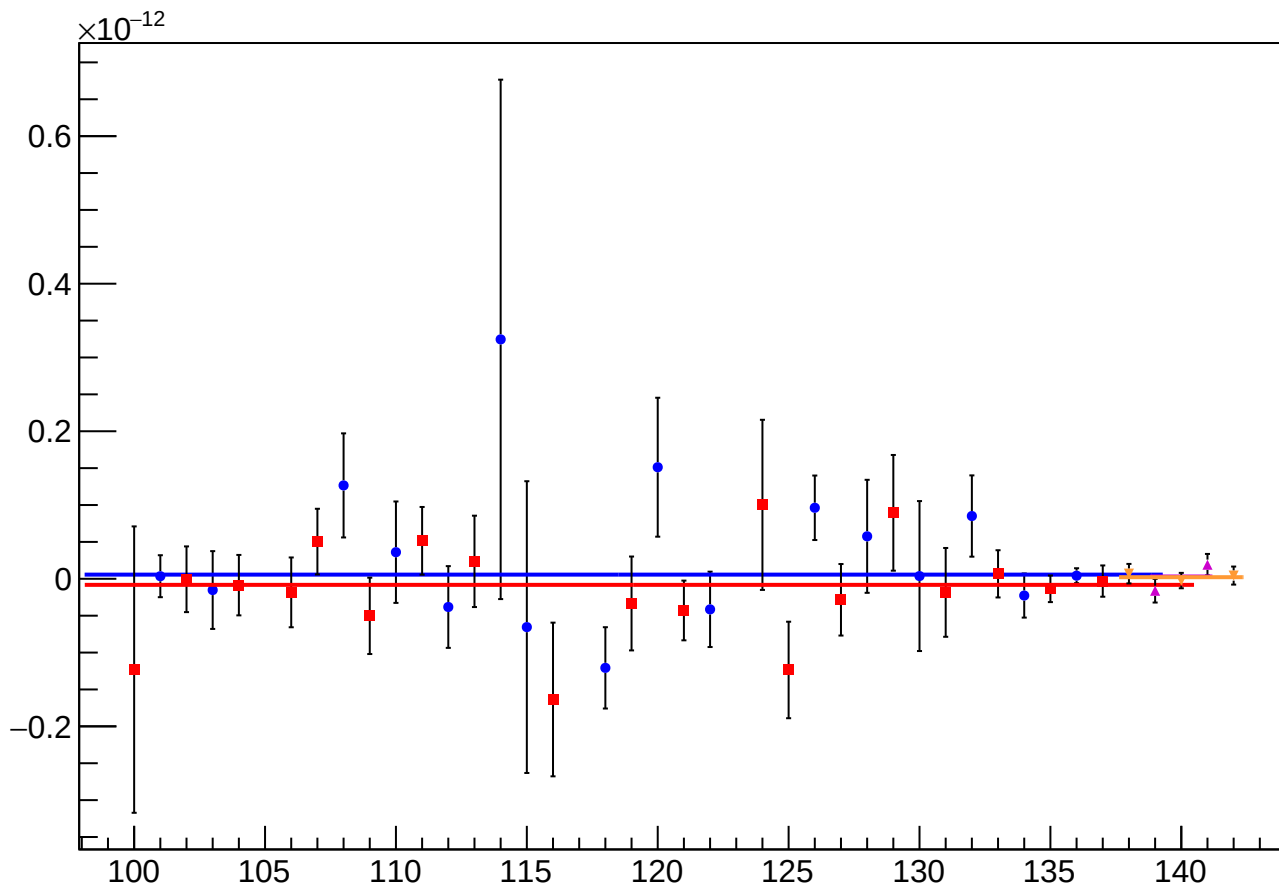
Right: 481.865 +/- 0.092 χ^2/NDF : 1857489.5/34

In: 435.114 +/- 0.107 χ^2/NDF : 1273467.3/17

Out: 439.556 +/- 0.104 χ^2/NDF : 1280052.8/21

All: 437.386 +/- 0.075 χ^2/NDF : 2554404.4/39

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 21.1/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.4/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 14.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 2.7/1

Left: 0.000 ± 0.000 χ^2/NDF : 3.0/4

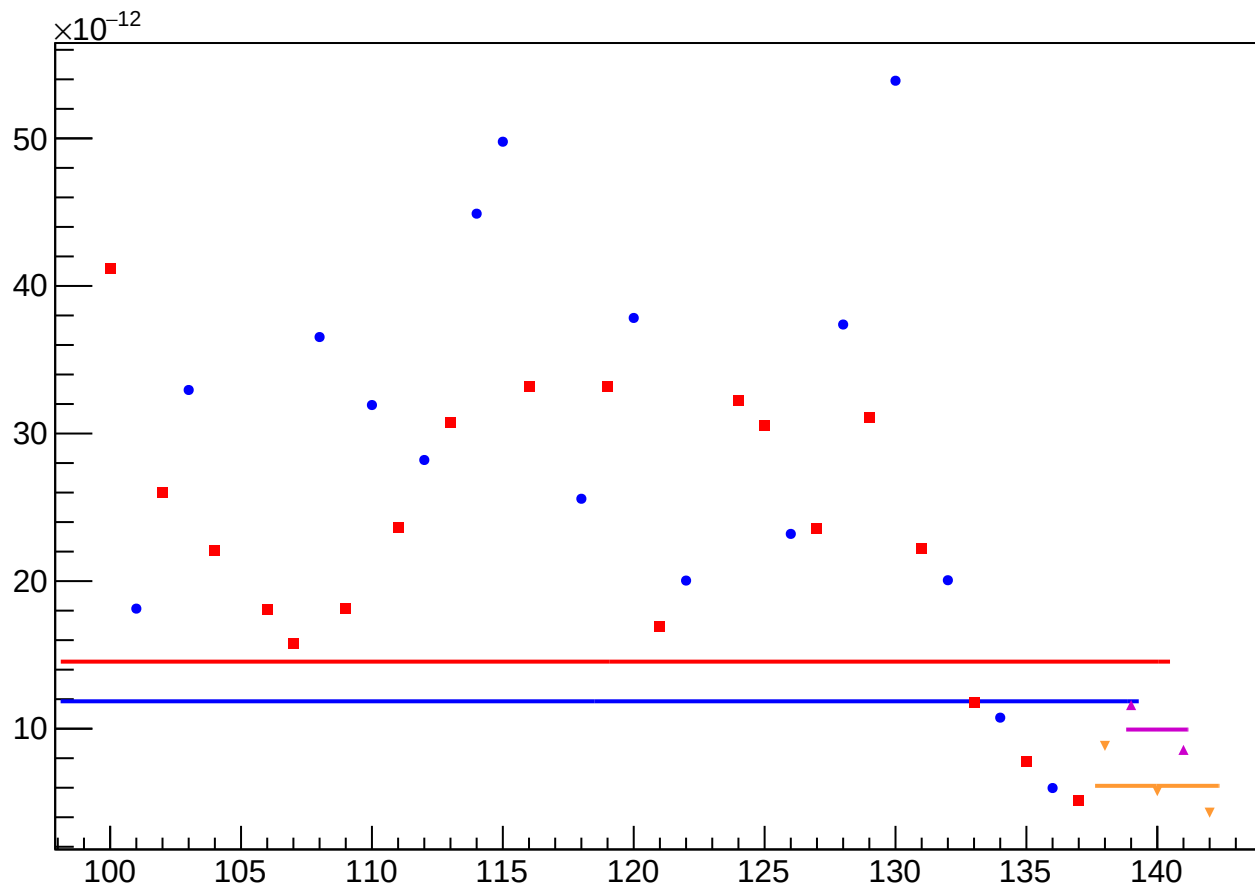
Right: -0.000 ± 0.000 χ^2/NDF : 36.4/34

In: 0.000 ± 0.000 χ^2/NDF : 23.8/17

Out: -0.000 ± 0.000 χ^2/NDF : 15.2/21

All: 0.000 ± 0.000 χ^2/NDF : 39.5/39

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2848478.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :130623.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1769864.5/18

Left In: 0.000+/-0.000 χ^2/NDF :39309.2/1

Left: 0.000+/-0.000 χ^2/NDF : 348856.5/4

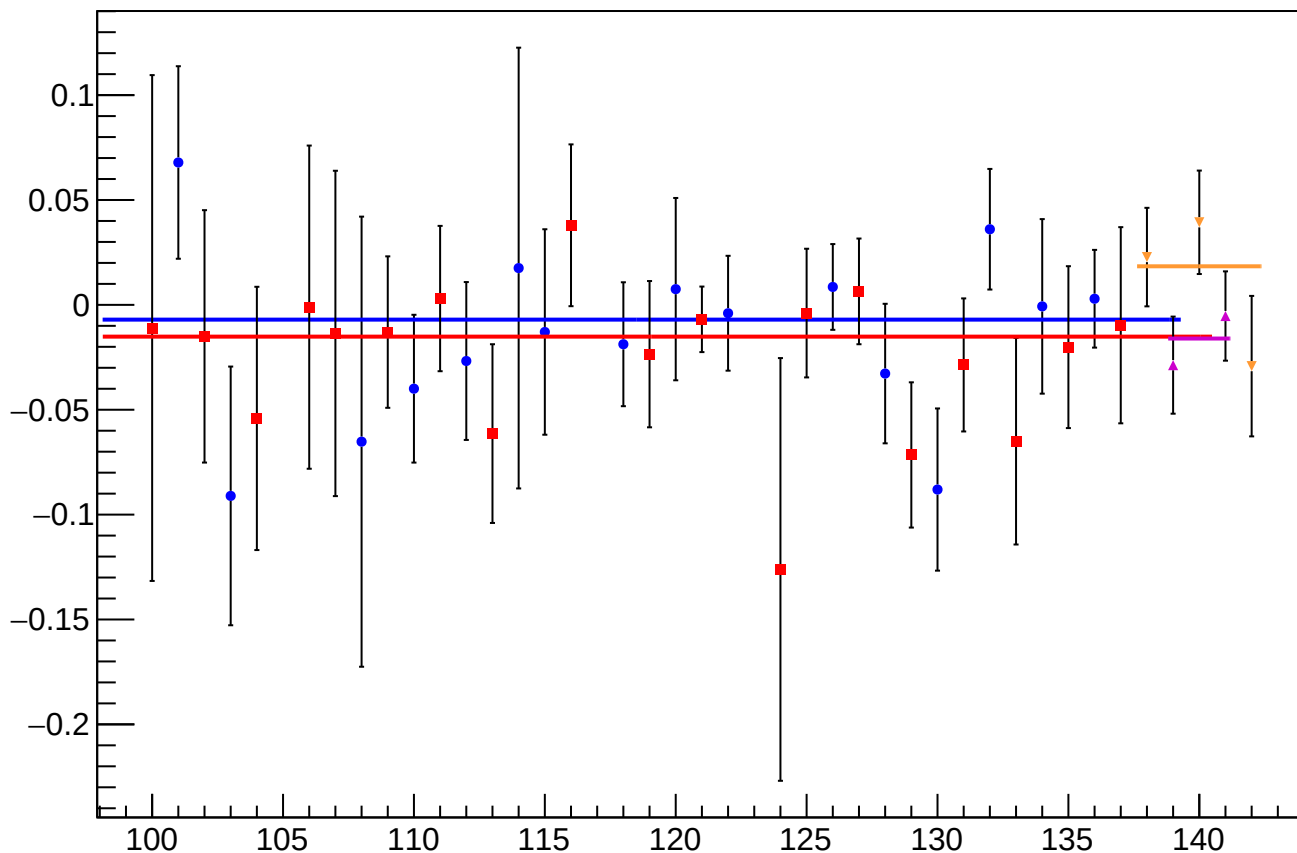
Right: 0.000+/-0.000 χ^2/NDF : 4713356.4/34

In: 0.000+/-0.000 χ^2/NDF :2928081.0/17

Out: 0.000+/-0.000 χ^2/NDF :2968495.6/21

All: 0.000+/-0.000 χ^2/NDF : 6018884.4/39

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.009 χ^2/NDF : 14.3/15

Left Out: 0.018 ± 0.015 χ^2/NDF : 2.8/2

Right Out: -0.015 ± 0.008 χ^2/NDF : 10.1/18

Left In: -0.016 ± 0.016 χ^2/NDF : 0.6/1

Left: 0.002 ± 0.011 χ^2/NDF : 5.8/4

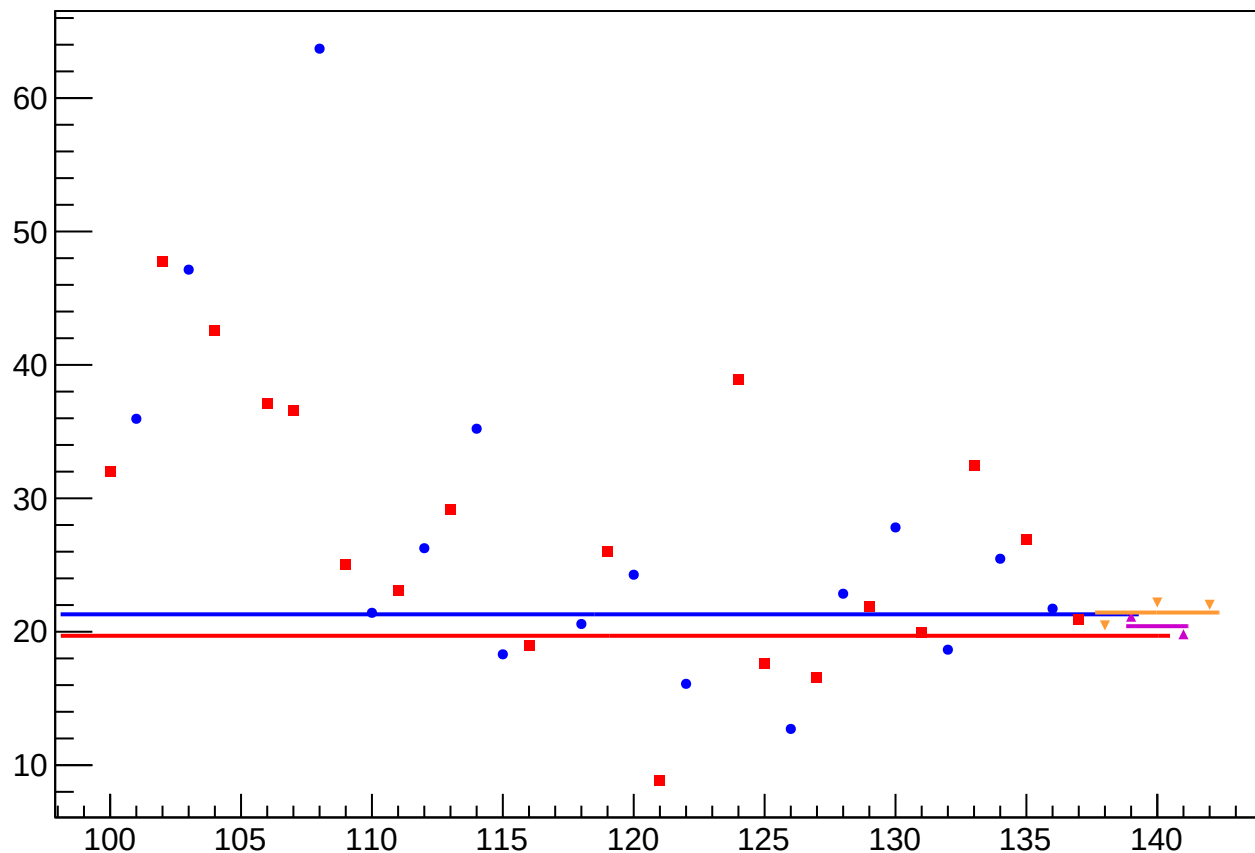
Right: -0.011 ± 0.006 χ^2/NDF : 24.9/34

In: -0.009 ± 0.008 χ^2/NDF : 15.1/17

Out: -0.008 ± 0.007 χ^2/NDF : 16.6/21

All: -0.008 ± 0.005 χ^2/NDF : 31.8/39

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.305+/-0.006 χ^2/NDF : 1479398.3/15

Left Out: 21.440+/-0.011 χ^2/NDF : 5829.0/2

Right Out: 19.697+/-0.006 χ^2/NDF : 2438979.3/18

Left In: 20.416+/-0.011 χ^2/NDF : 3512.6/1

Left: 20.945+/-0.008 χ^2/NDF : 13747.0/4

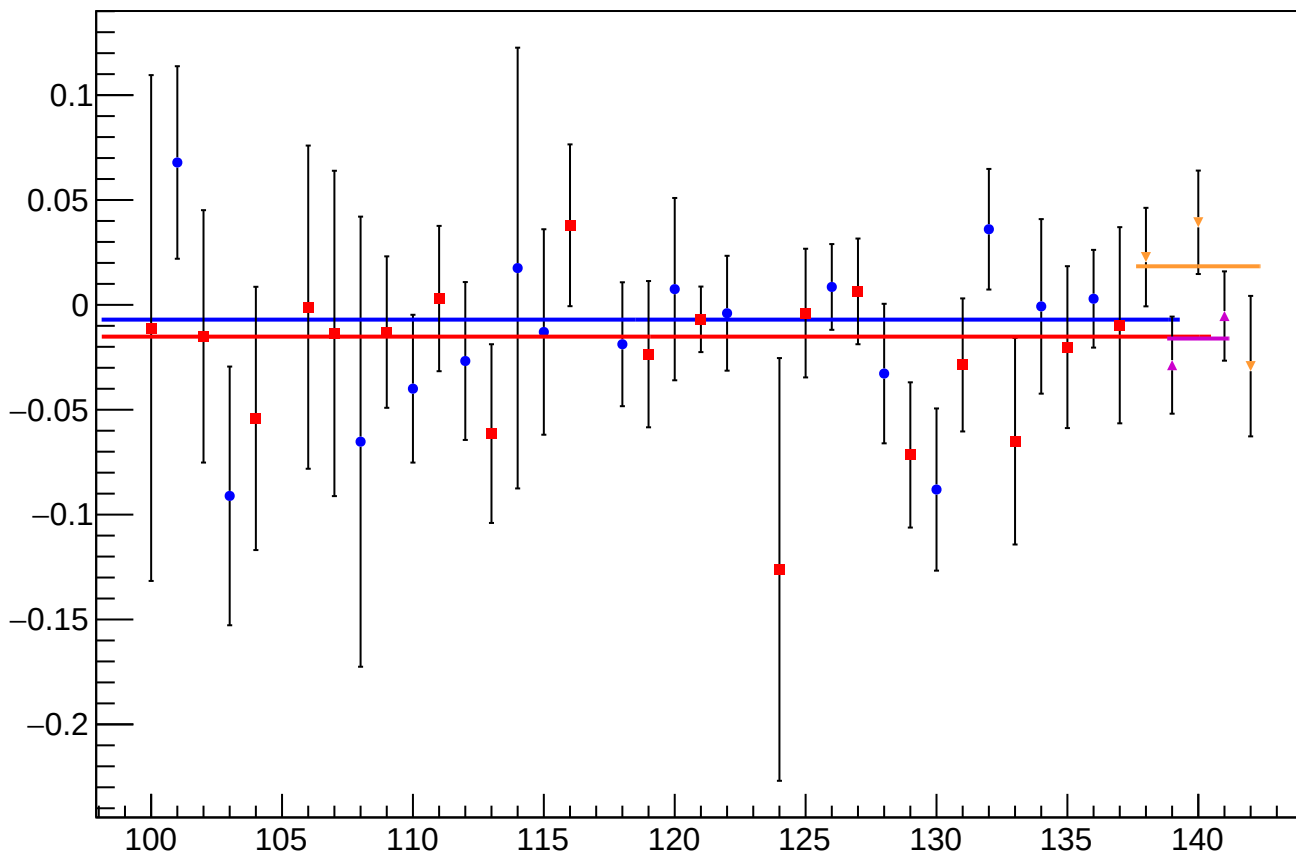
Right: 20.463+/-0.004 χ^2/NDF : 3954812.2/34

In: 21.099+/-0.005 χ^2/NDF : 1487853.3/17

Out: 20.093+/-0.005 χ^2/NDF : 2465218.6/21

All: 20.574+/-0.004 χ^2/NDF : 3971567.7/39

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.009 χ^2/NDF : 14.3/15

Left Out: 0.018 ± 0.015 χ^2/NDF : 2.8/2

Right Out: -0.015 ± 0.008 χ^2/NDF : 10.1/18

Left In: -0.016 ± 0.016 χ^2/NDF : 0.6/1

Left: 0.002 ± 0.011 χ^2/NDF : 5.8/4

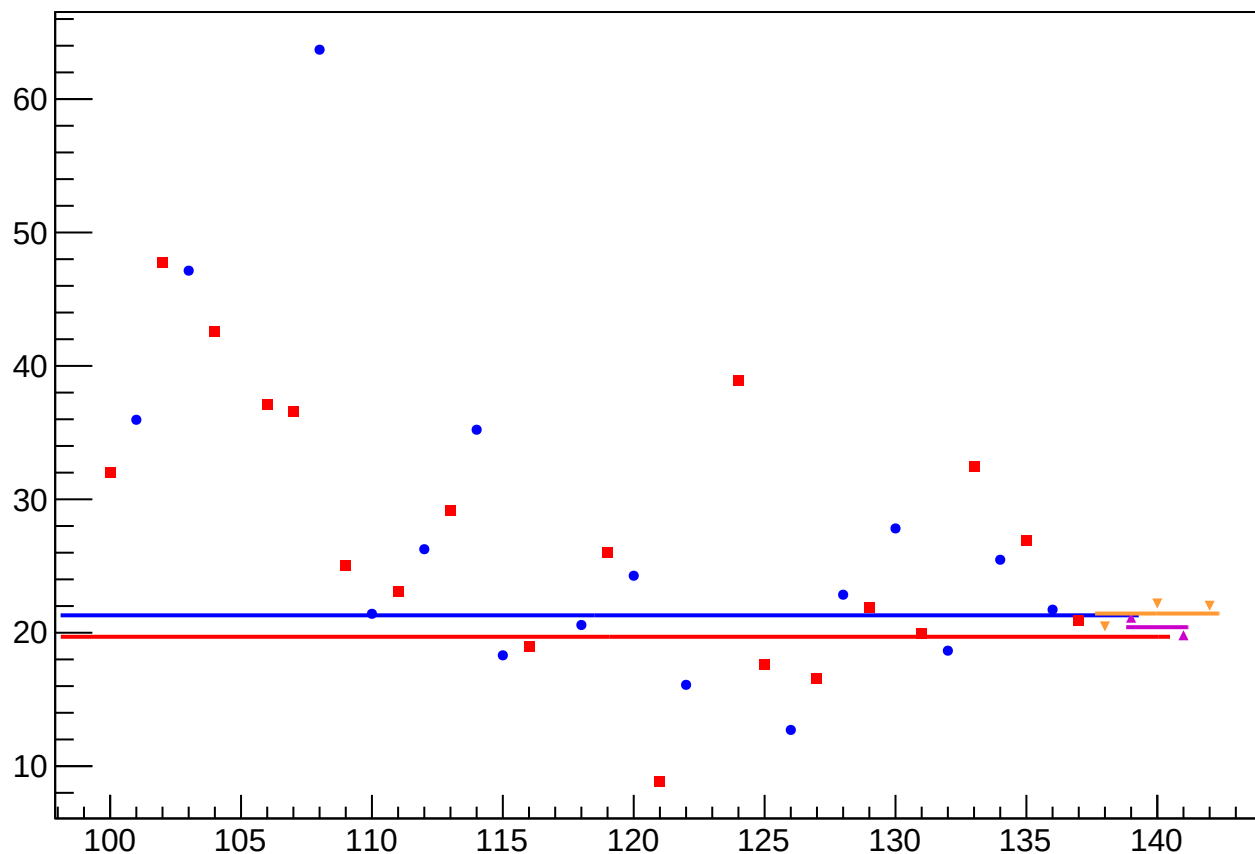
Right: -0.011 ± 0.006 χ^2/NDF : 24.9/34

In: -0.009 ± 0.008 χ^2/NDF : 15.1/17

Out: -0.008 ± 0.007 χ^2/NDF : 16.6/21

All: -0.008 ± 0.005 χ^2/NDF : 31.8/39

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.305+/-0.006 χ^2/NDF : 1479398.3/15

Left Out: 21.440+/-0.011 χ^2/NDF : 5829.0/2

Right Out: 19.697+/-0.006 χ^2/NDF : 2438979.3/18

Left In: 20.416+/-0.011 χ^2/NDF : 3512.6/1

Left: 20.945+/-0.008 χ^2/NDF : 13747.0/4

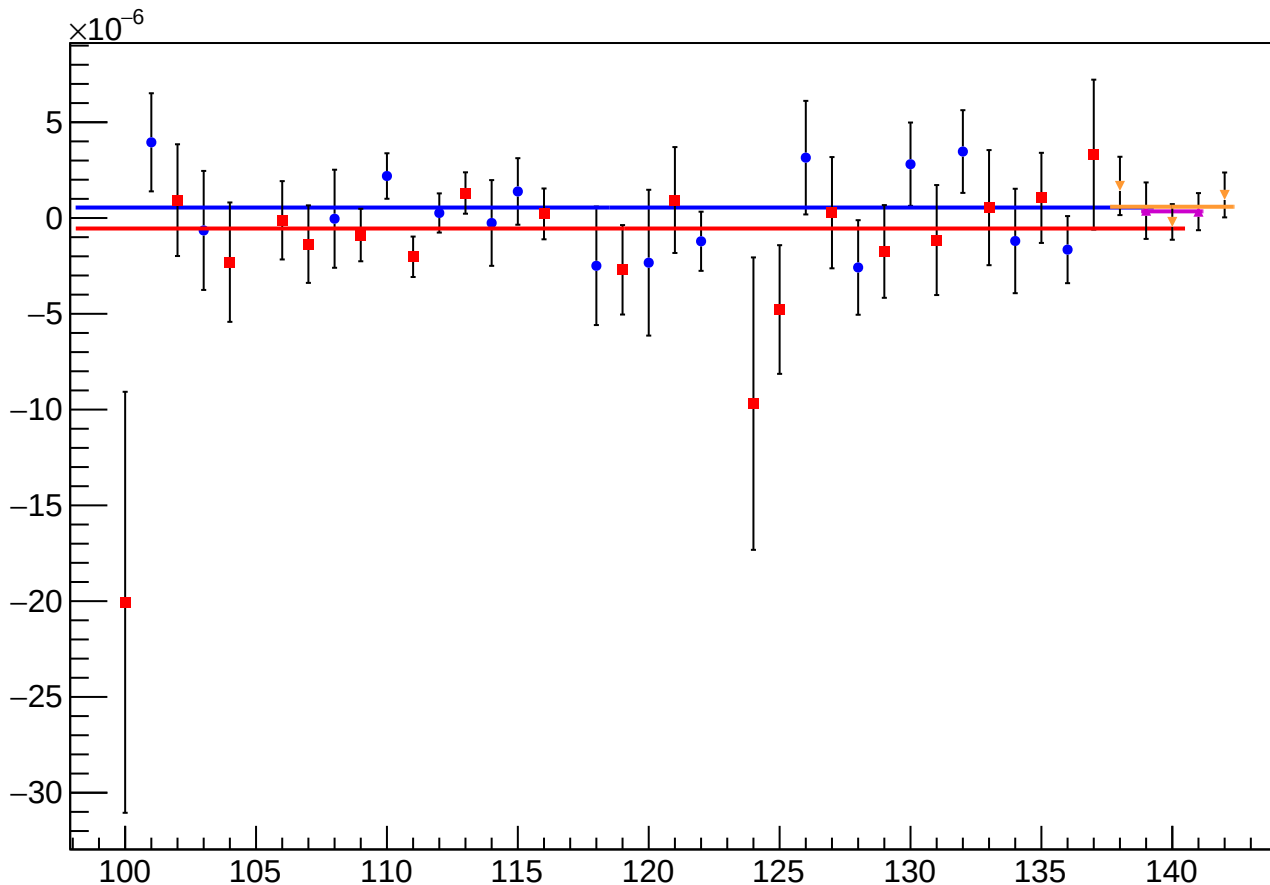
Right: 20.463+/-0.004 χ^2/NDF : 3954812.2/34

In: 21.099+/-0.005 χ^2/NDF : 1487853.3/17

Out: 20.093+/-0.005 χ^2/NDF : 2465218.6/21

All: 20.574+/-0.004 χ^2/NDF : 3971567.7/39

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.4/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:1.5/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.3/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/1

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 1.6/4

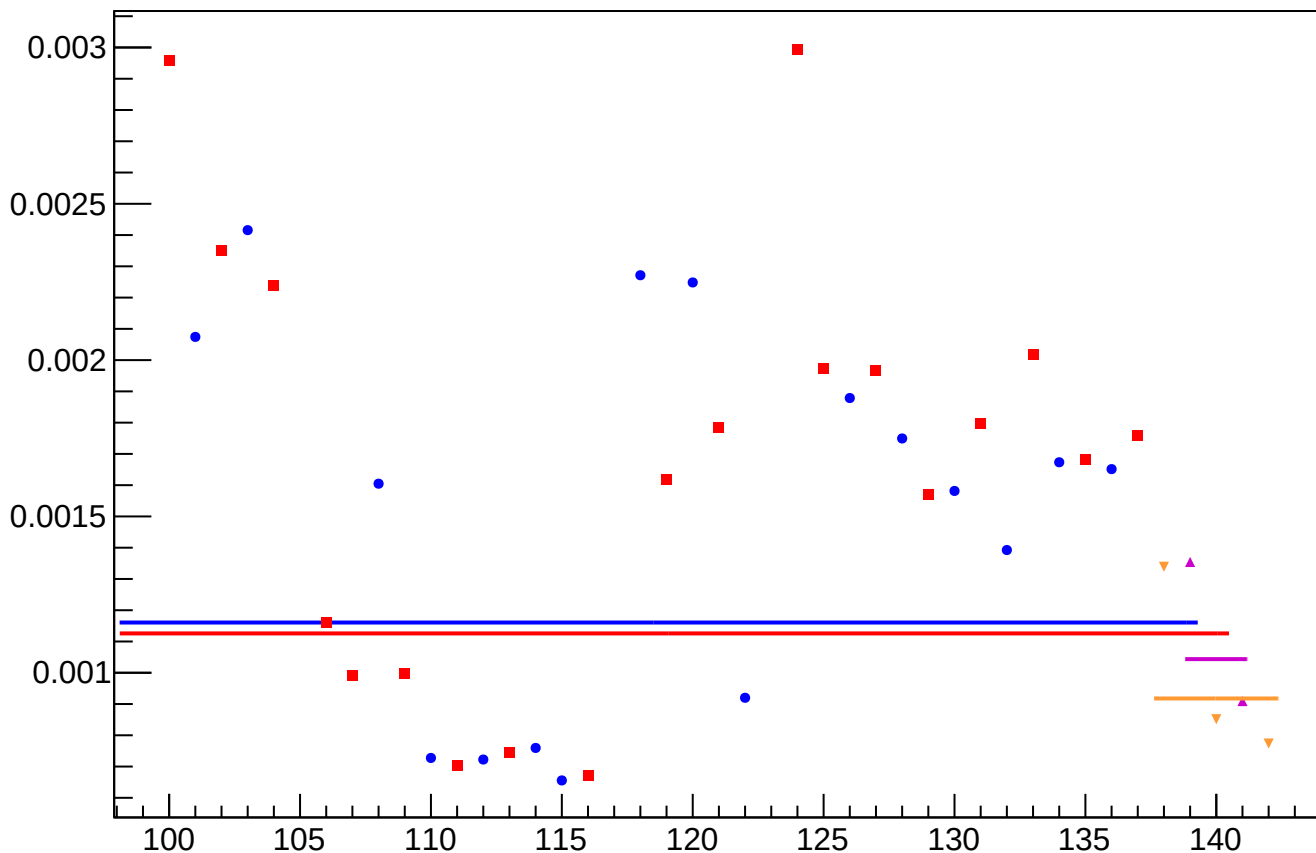
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 32.5/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:14.5/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:18.9/21

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 34.8/39

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 2534643.9/15

Left Out: 0.001+/-0.000 χ^2/NDF :193611.2/2

Right Out: 0.001+/-0.000 χ^2/NDF : 2623987.9/18

Left In: 0.001+/-0.000 χ^2/NDF :127300.6/1

Left: 0.001+/-0.000 χ^2/NDF : 350057.0/4

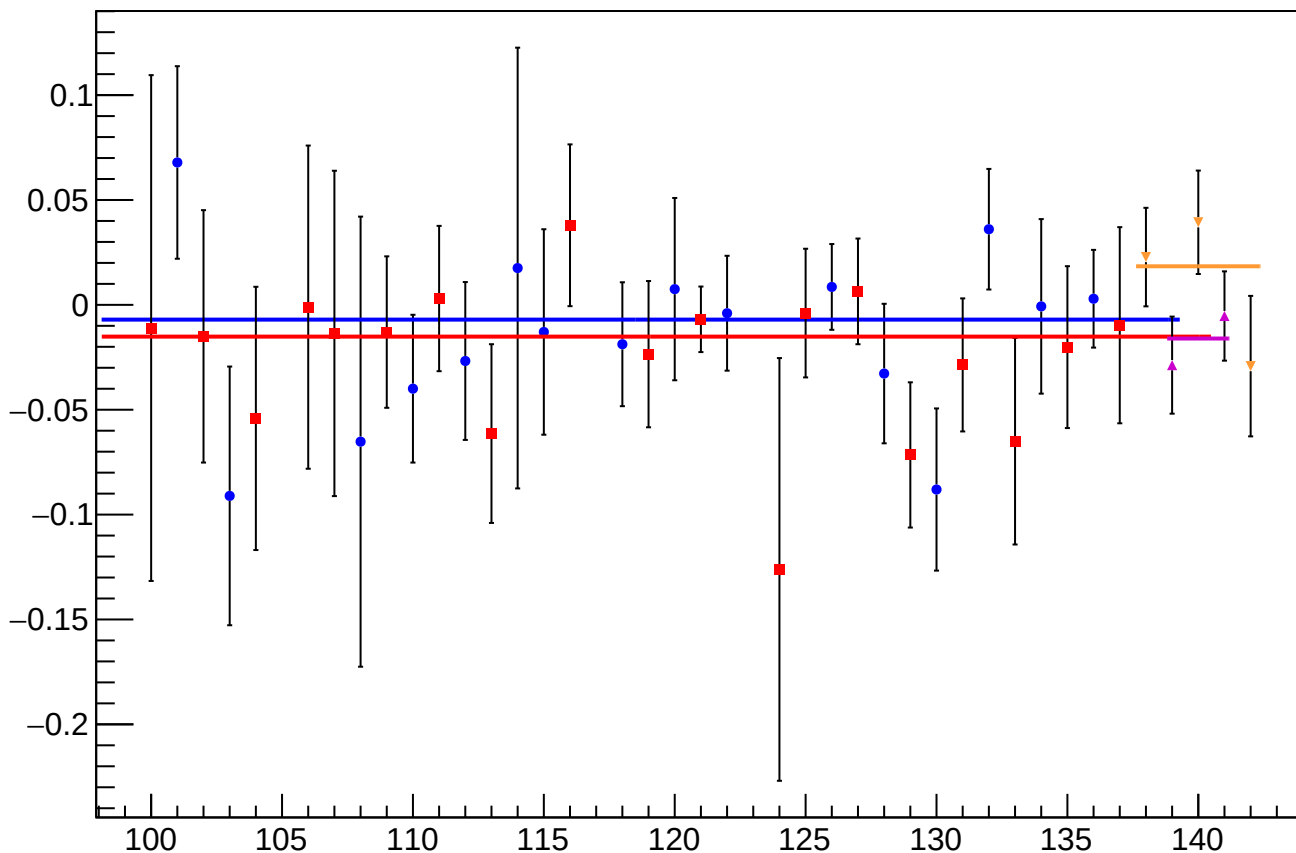
Right: 0.001+/-0.000 χ^2/NDF : 5164155.8/34

In: 0.001+/-0.000 χ^2/NDF :2692928.3/17

Out: 0.001+/-0.000 χ^2/NDF :2952476.4/21

All: 0.001+/-0.000 χ^2/NDF : 5679328.4/39

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.009 χ^2/NDF : 14.3/15

Left Out: 0.018 ± 0.015 χ^2/NDF : 2.8/2

Right Out: -0.015 ± 0.008 χ^2/NDF : 10.1/18

Left In: -0.016 ± 0.016 χ^2/NDF : 0.6/1

Left: 0.002 ± 0.011 χ^2/NDF : 5.8/4

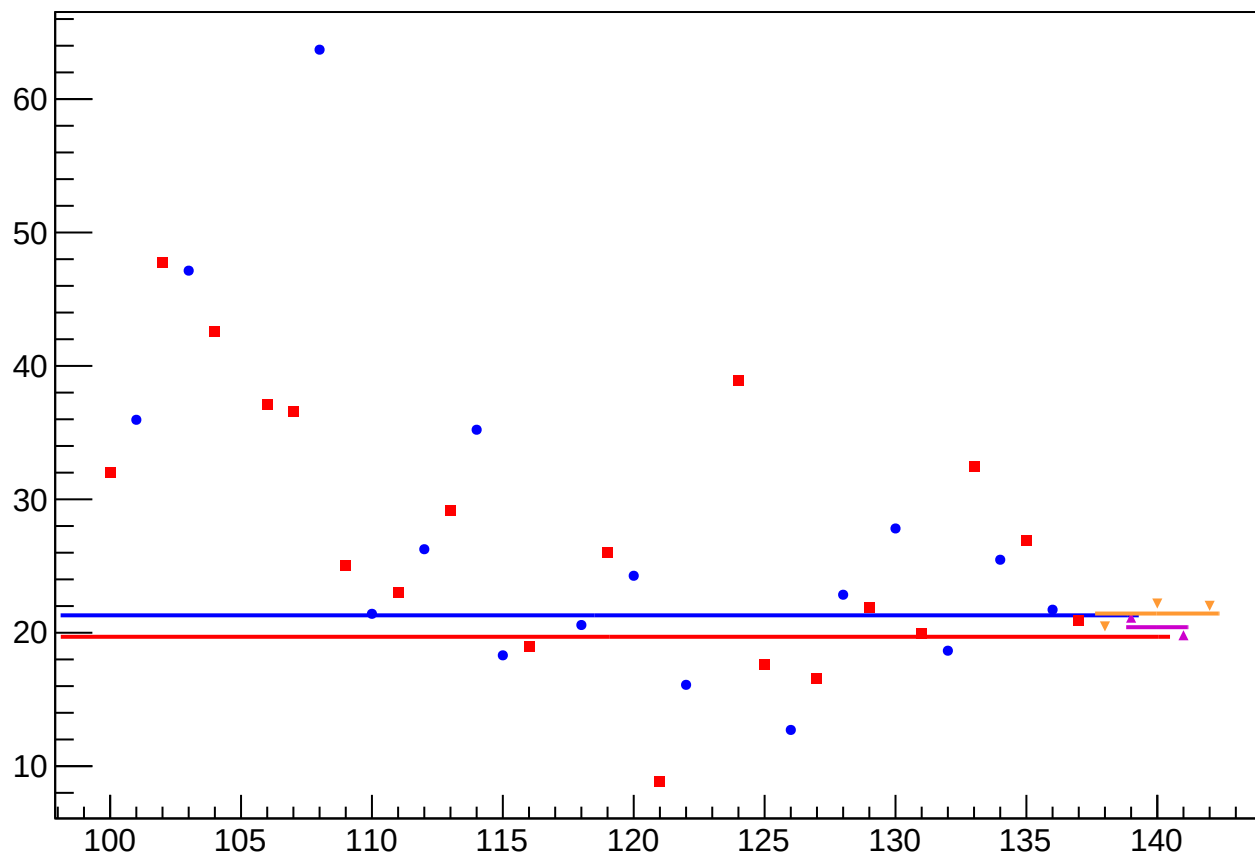
Right: -0.011 ± 0.006 χ^2/NDF : 24.9/34

In: -0.009 ± 0.008 χ^2/NDF : 15.1/17

Out: -0.008 ± 0.007 χ^2/NDF : 16.6/21

All: -0.008 ± 0.005 χ^2/NDF : 31.8/39

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.306+/-0.006 χ^2/NDF : 1479231.5/15

Left Out: 21.440+/-0.011 χ^2/NDF : 5827.6/2

Right Out: 19.698+/-0.006 χ^2/NDF : 2438612.4/18

Left In: 20.417+/-0.011 χ^2/NDF : 3510.5/1

Left: 20.945+/-0.008 χ^2/NDF : 13742.8/4

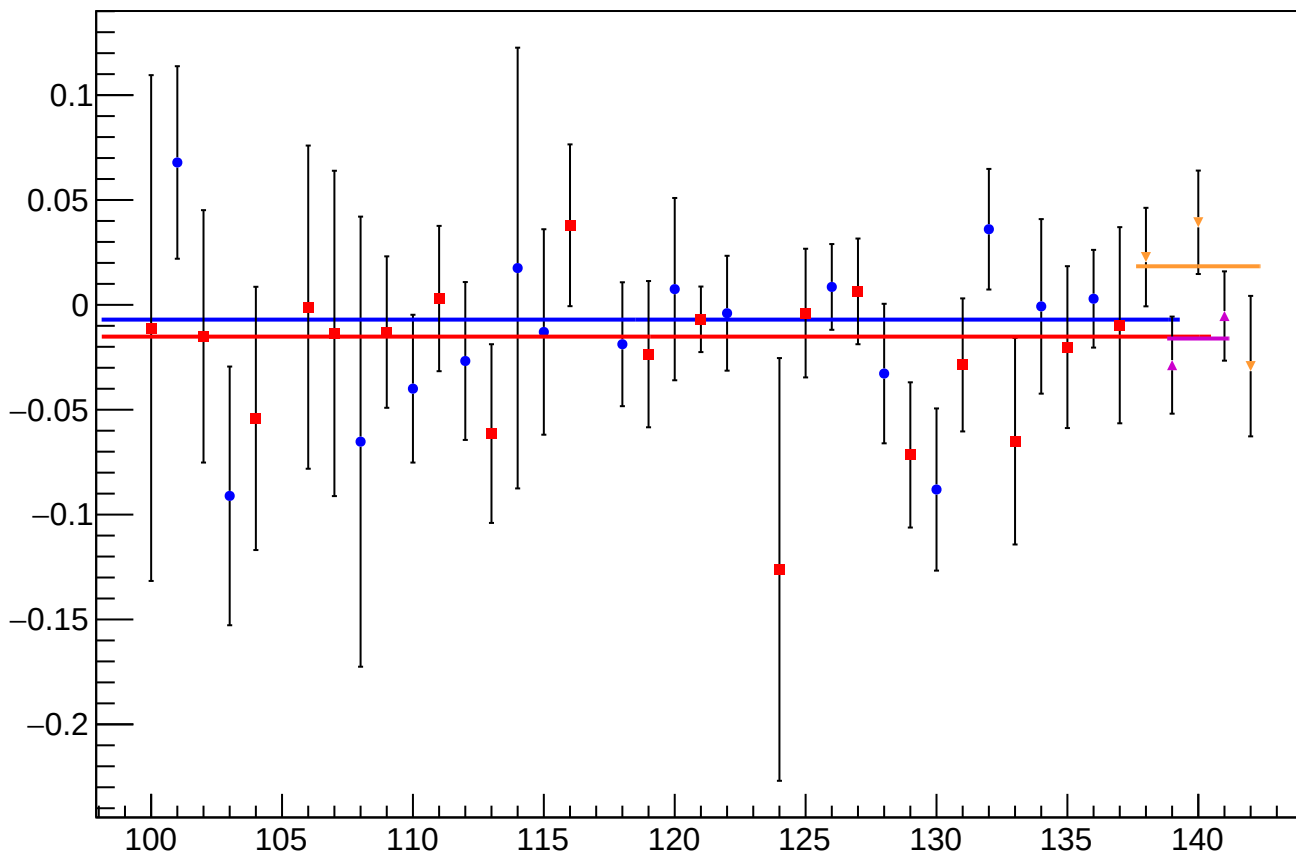
Right: 20.464+/-0.004 χ^2/NDF : 3954261.4/34

In: 21.099+/-0.005 χ^2/NDF : 1487683.0/17

Out: 20.094+/-0.005 χ^2/NDF : 2464842.6/21

All: 20.574+/-0.004 χ^2/NDF : 3971011.3/39

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.009 χ^2/NDF : 14.3/15

Left Out: 0.018 ± 0.015 χ^2/NDF : 2.8/2

Right Out: -0.015 ± 0.008 χ^2/NDF : 10.1/18

Left In: -0.016 ± 0.016 χ^2/NDF : 0.6/1

Left: 0.002 ± 0.011 χ^2/NDF : 5.8/4

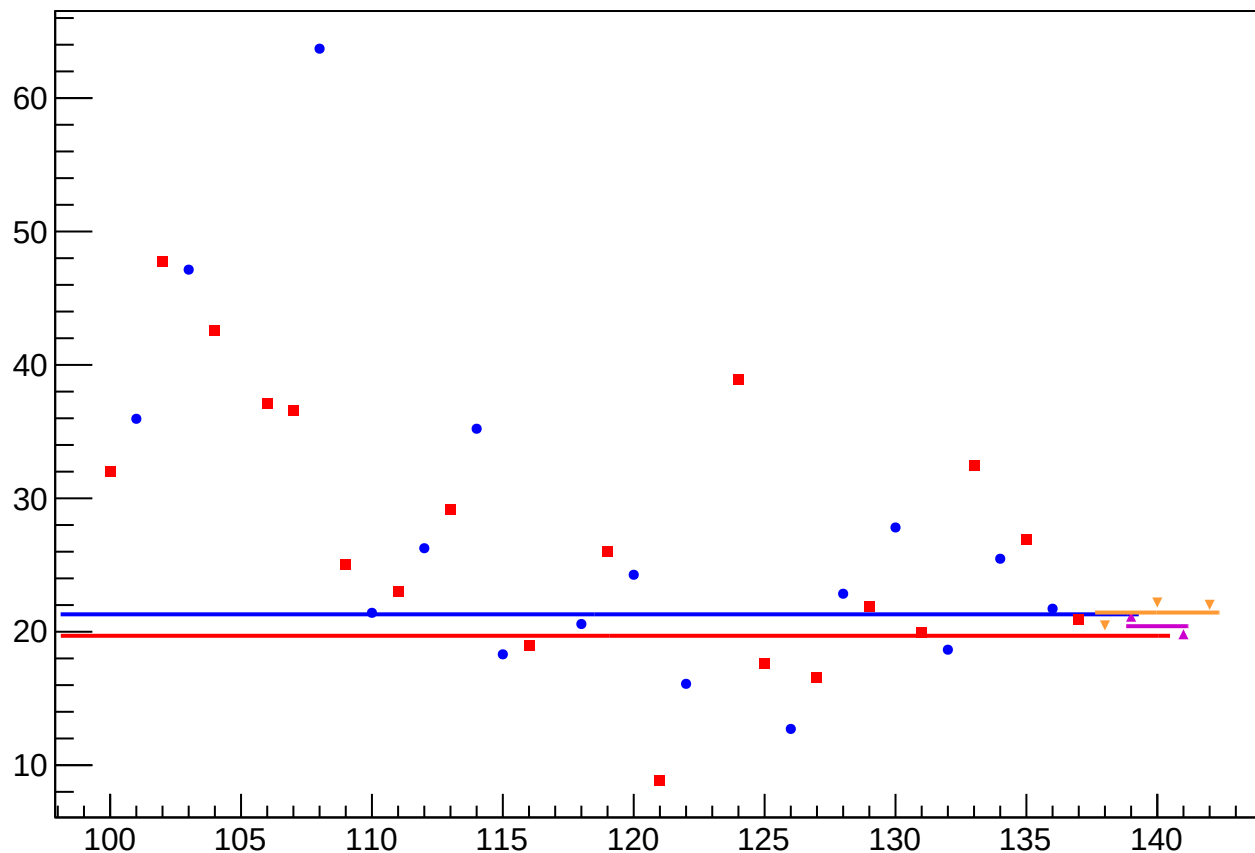
Right: -0.011 ± 0.006 χ^2/NDF : 24.9/34

In: -0.009 ± 0.008 χ^2/NDF : 15.1/17

Out: -0.008 ± 0.007 χ^2/NDF : 16.6/21

All: -0.008 ± 0.005 χ^2/NDF : 31.8/39

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.306+/-0.006 χ^2/NDF : 1479231.5/15

Left Out: 21.440+/-0.011 χ^2/NDF : 5827.6/2

Right Out: 19.698+/-0.006 χ^2/NDF : 2438612.4/18

Left In: 20.417+/-0.011 χ^2/NDF : 3510.5/1

Left: 20.945+/-0.008 χ^2/NDF : 13742.8/4

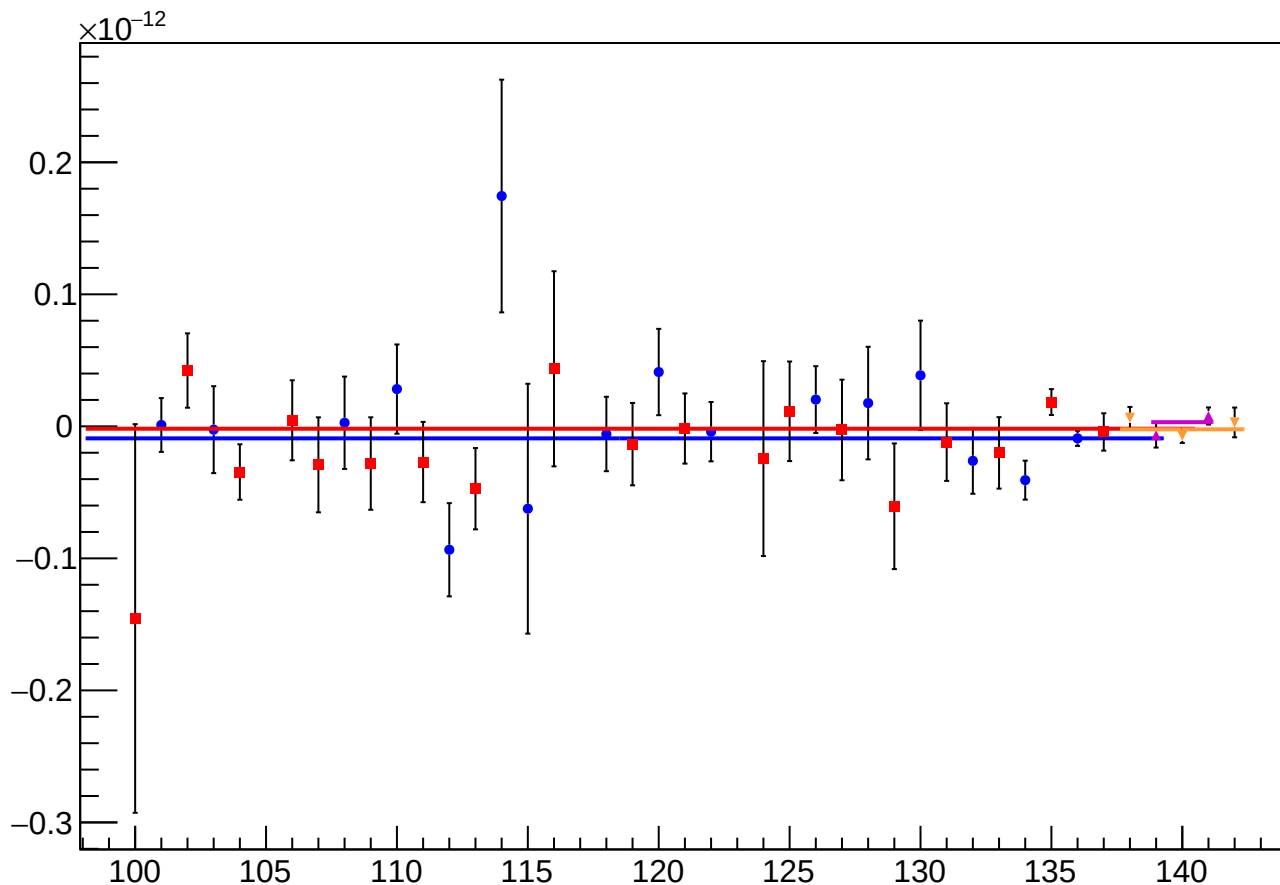
Right: 20.464+/-0.004 χ^2/NDF : 3954261.4/34

In: 21.099+/-0.005 χ^2/NDF : 1487683.0/17

Out: 20.094+/-0.005 χ^2/NDF : 2464842.6/21

All: 20.574+/-0.004 χ^2/NDF : 3971011.3/39

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 22.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 2.2/2

Right Out: -0.000+/-0.000 χ^2/NDF : 17.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 1.6/1

Left: -0.000+/-0.000 χ^2/NDF : 4.4/4

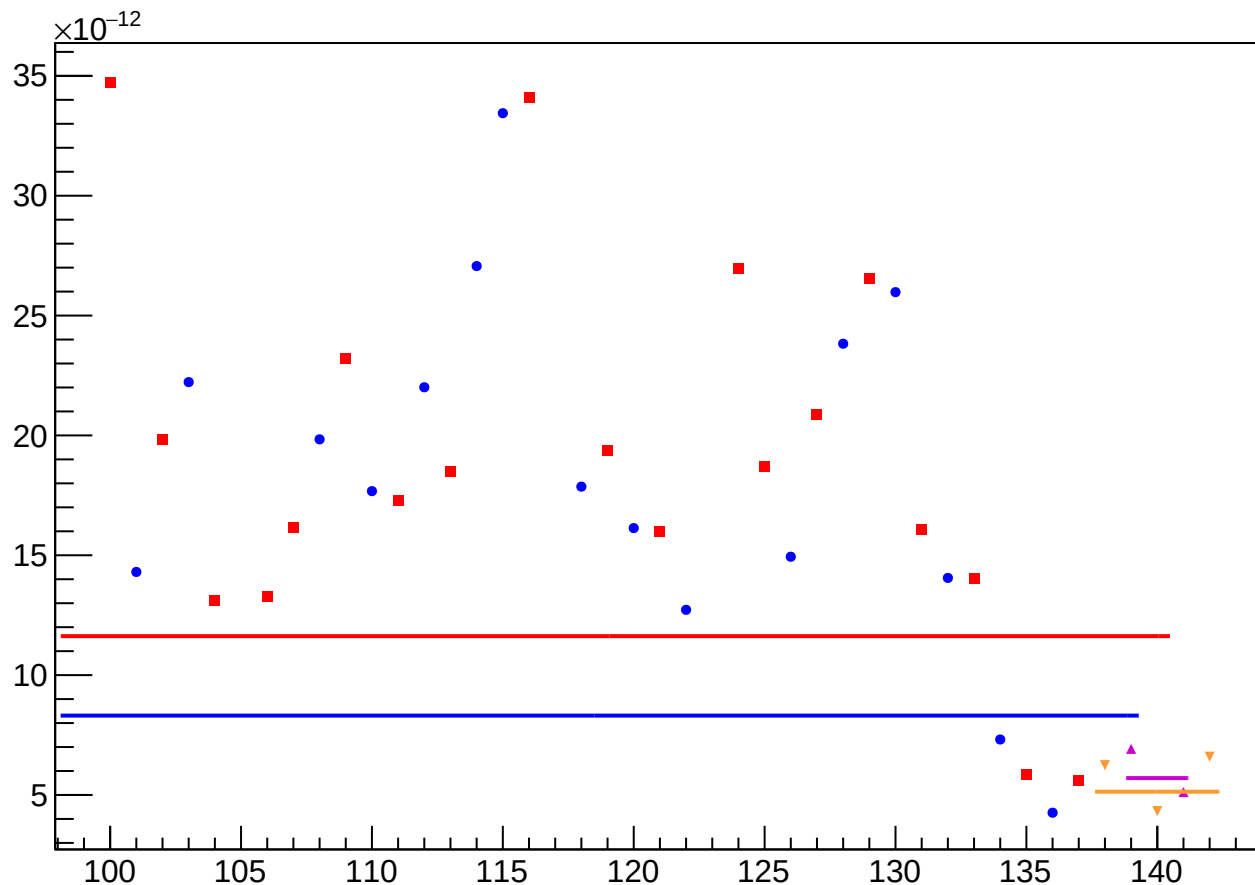
Right: -0.000+/-0.000 χ^2/NDF : 40.6/34

In: -0.000+/-0.000 χ^2/NDF : 27.3/17

Out: -0.000+/-0.000 χ^2/NDF : 19.2/21

All: -0.000+/-0.000 χ^2/NDF : 46.6/39

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3731754.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 114694.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2610908.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 49774.1/1

Left: 0.000+/-0.000 χ^2/NDF : 178496.6/4

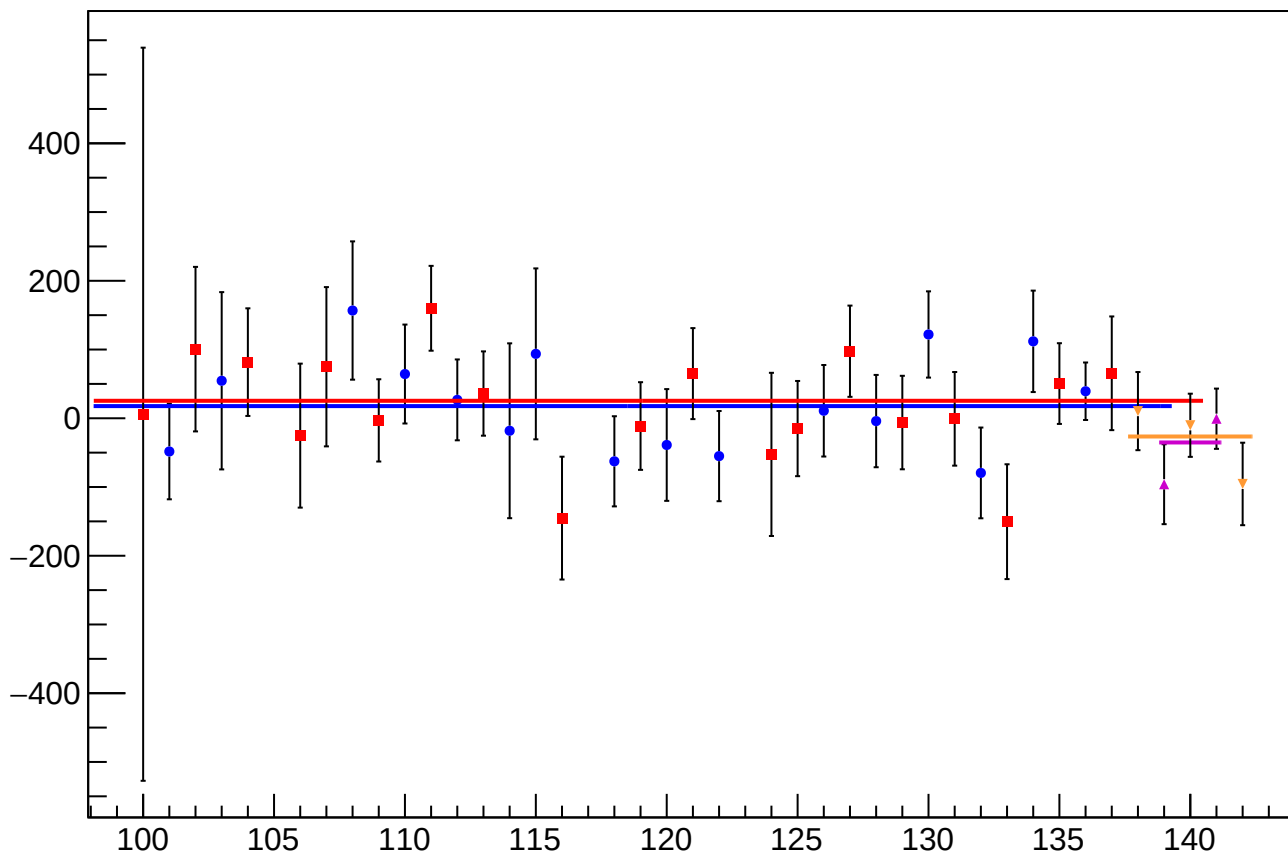
Right: 0.000+/-0.000 χ^2/NDF : 6760845.1/34

In: 0.000+/-0.000 χ^2/NDF : 4060732.1/17

Out: 0.000+/-0.000 χ^2/NDF : 4414359.6/21

All: 0.000+/-0.000 χ^2/NDF : 8478218.2/39

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 17.701+/-17.470 χ^2/NDF : 13.9/15

Left Out: -26.522+/-30.703 χ^2/NDF : 1.9/2

Right Out: 25.440+/-17.337 χ^2/NDF : 17.8/18

Left In: -35.200+/-34.993 χ^2/NDF : 1.7/1

Left: -30.297+/-23.079 χ^2/NDF : 3.6/4

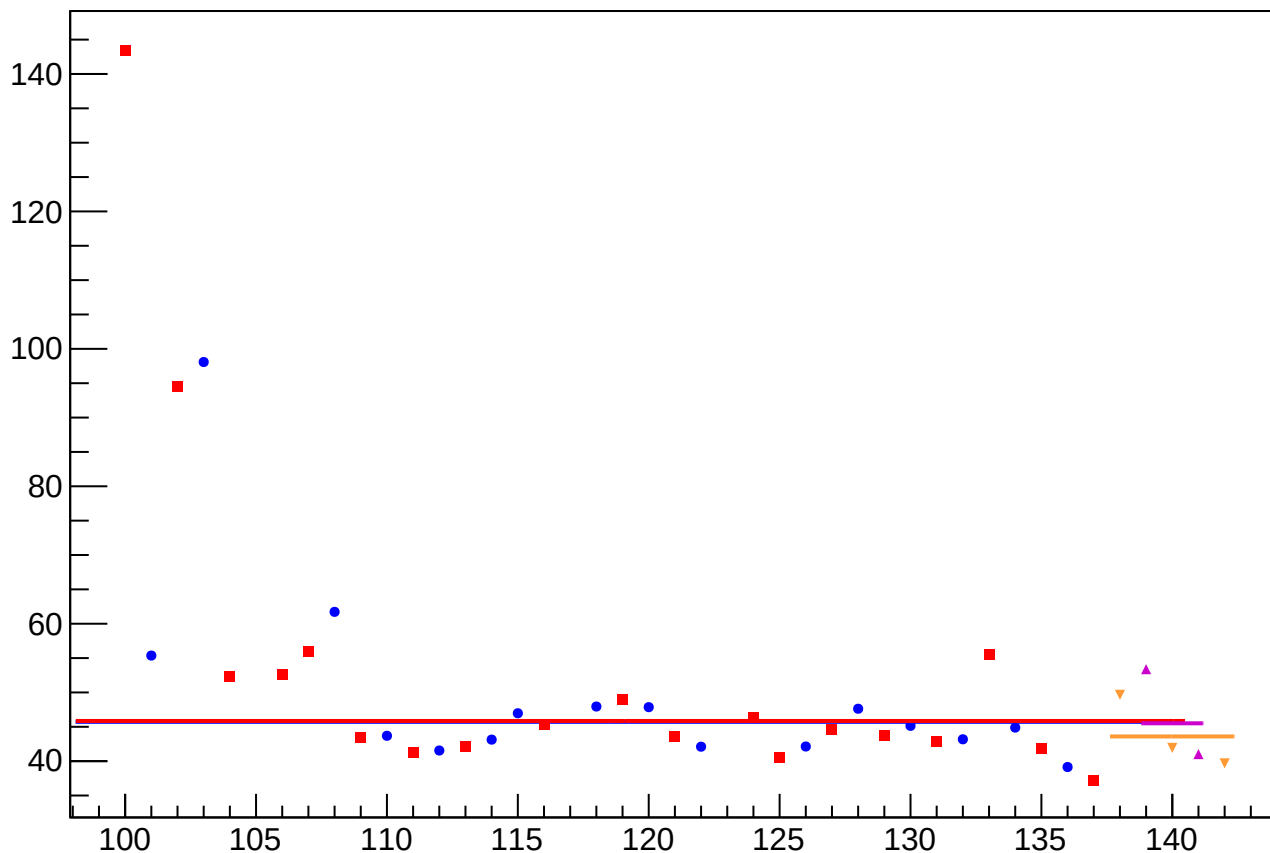
Right: 21.600+/-12.306 χ^2/NDF : 31.9/34

In: 7.146+/-15.630 χ^2/NDF : 17.5/17

Out: 12.878+/-15.096 χ^2/NDF : 21.9/21

All: 10.112+/-10.859 χ^2/NDF : 39.4/39

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 45.727 $\pm$ 0.012 χ^2 /NDF: 501460.7/15

Left Out: 43.596 $\pm$ 0.022 χ^2 /NDF: 33833.4/2

Right Out: 45.849 $\pm$ 0.012 χ^2 /NDF: 540156.7/18

Left In: 45.508 $\pm$ 0.025 χ^2 /NDF: 57630.5/1

Left: 44.428 $\pm$ 0.016 χ^2 /NDF: 94840.1/4

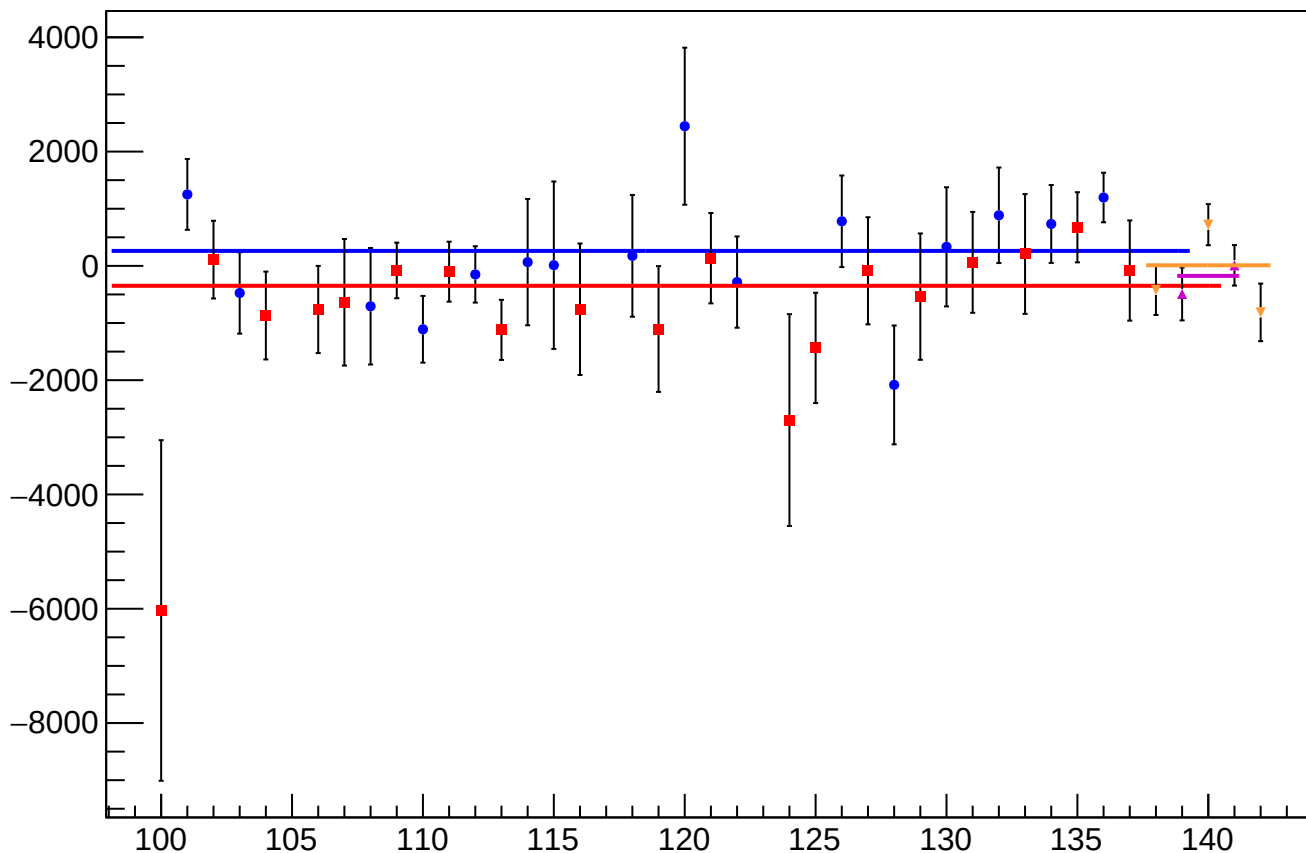
Right: 45.788 $\pm$ 0.009 χ^2 /NDF: 1041667.0/34

In: 45.683 $\pm$ 0.011 χ^2 /NDF: 559153.5/17

Out: 45.304 $\pm$ 0.011 χ^2 /NDF: 582159.7/21

All: 45.487 $\pm$ 0.008 χ^2 /NDF: 1141920.7/39

asym_sam_15_37_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 261.943 $\pm$ 185.211 χ^2 /NDF: 25.0/15

Left Out: 10.032 $\pm$ 243.524 χ^2 /NDF: 7.5/2

Right Out: -348.685 $\pm$ 180.682 χ^2 /NDF: 14.9/18

Left In: -174.866 $\pm$ 281.460 χ^2 /NDF: 0.7/1

Left: -69.125 $\pm$ 184.160 χ^2 /NDF: 8.5/4

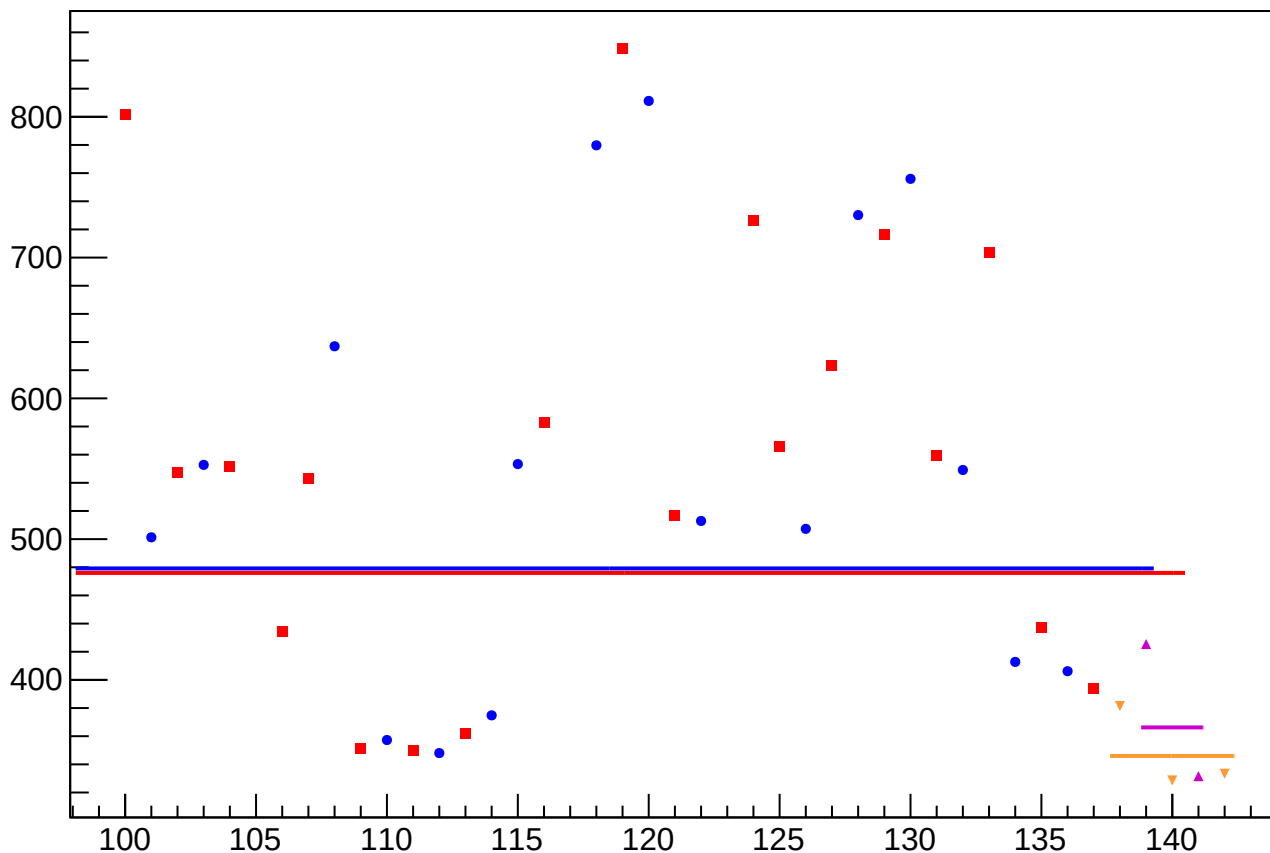
Right: -50.928 $\pm$ 129.333 χ^2 /NDF: 45.5/34

In: 129.953 $\pm$ 154.718 χ^2 /NDF: 27.4/17

Out: -221.326 $\pm$ 145.104 χ^2 /NDF: 23.9/21

All: -56.939 $\pm$ 105.840 χ^2 /NDF: 54.0/39

asym_sam_15_37_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 479.178+/-0.131 χ^2/NDF : 952693.7/15

Left Out: 345.983+/-0.172 χ^2/NDF : 18991.5/2

Right Out: 475.992+/-0.128 χ^2/NDF : 1006487.7/18

Left In: 366.239+/-0.199 χ^2/NDF : 51790.7/1

Left: 354.655+/-0.130 χ^2/NDF : 76706.0/4

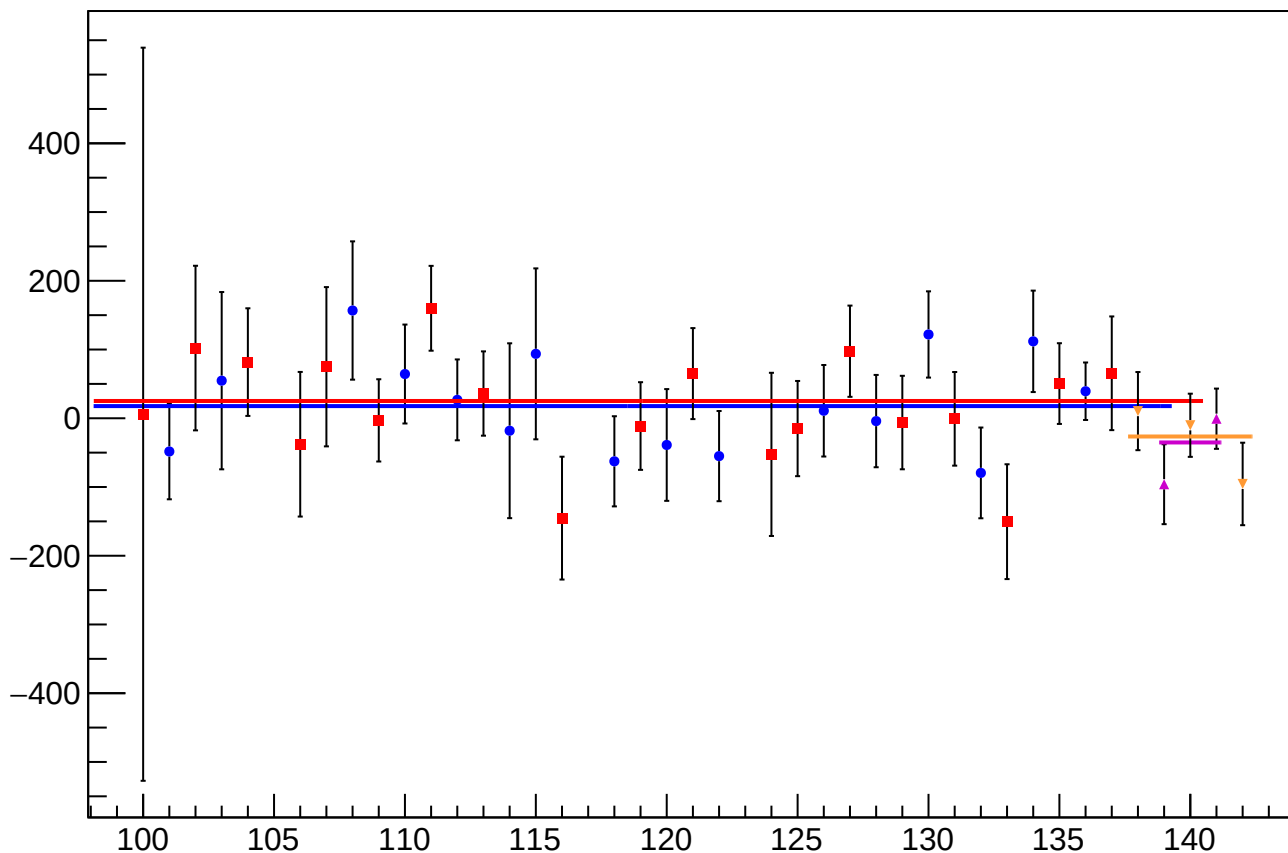
Right: 477.545+/-0.091 χ^2/NDF : 1959484.6/34

In: 445.051+/-0.109 χ^2/NDF : 1229200.5/17

Out: 429.833+/-0.103 χ^2/NDF : 1393121.0/21

All: 436.955+/-0.075 χ^2/NDF : 2632615.4/39

cor_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 17.706+/-17.470 χ^2/NDF : 13.9/15

Left Out: -26.524+/-30.703 χ^2/NDF : 1.9/2

Right Out: 25.145+/-17.339 χ^2/NDF : 18.0/18

Left In: -35.196+/-34.993 χ^2/NDF : 1.7/1

Left: -30.296+/-23.079 χ^2/NDF : 3.6/4

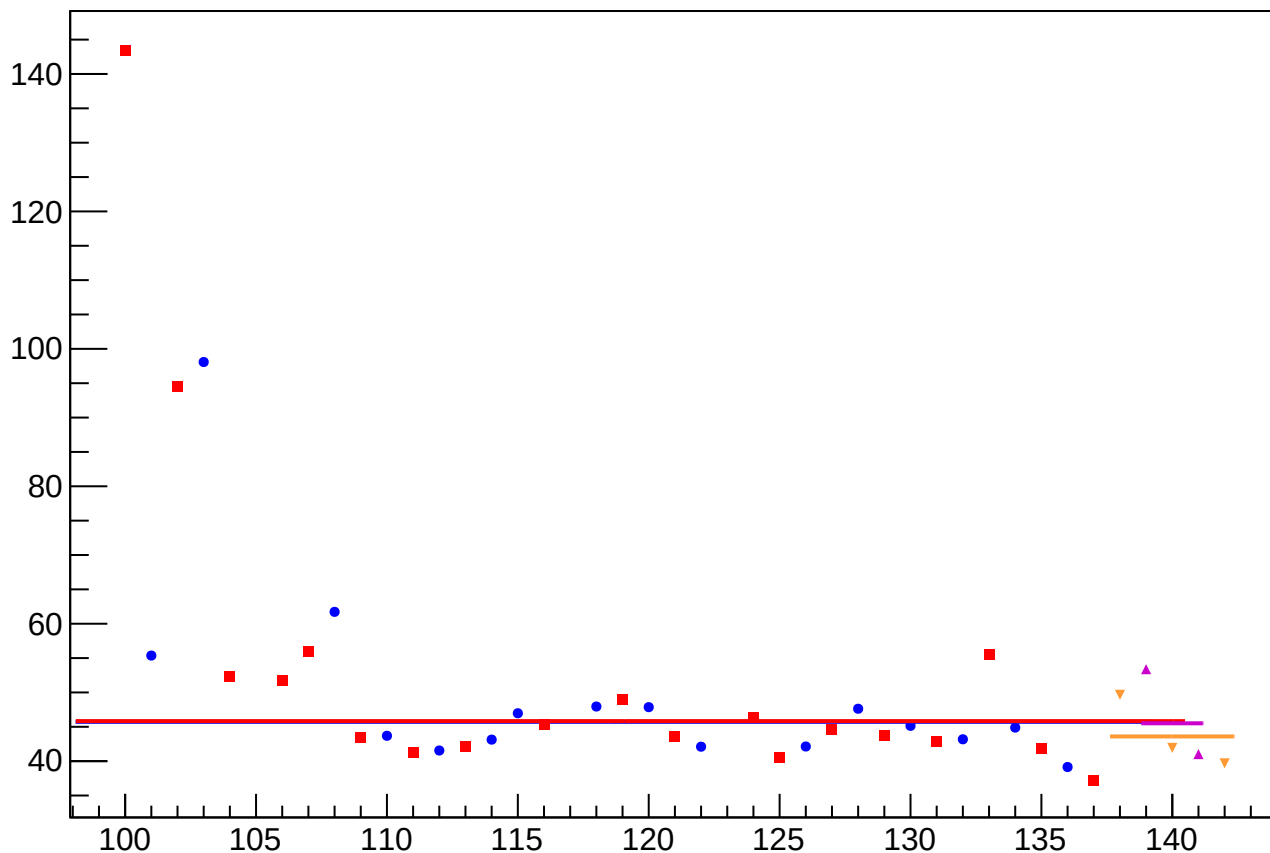
Right: 21.453+/-12.307 χ^2/NDF : 32.0/34

In: 7.151+/-15.630 χ^2/NDF : 17.5/17

Out: 12.651+/-15.098 χ^2/NDF : 22.0/21

All: 9.996+/-10.859 χ^2/NDF : 39.6/39

cor_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 45.727 $\pm$ 0.012 χ^2 /NDF: 501463.8/15

Left Out: 43.596 $\pm$ 0.022 χ^2 /NDF:33833.4/2

Right Out: 45.825 $\pm$ 0.012 χ^2 /NDF: 538470.5/18

Left In: 45.508 $\pm$ 0.025 χ^2 /NDF:57630.5/1

Left: 44.428 $\pm$ 0.016 χ^2 /NDF: 94840.1/4

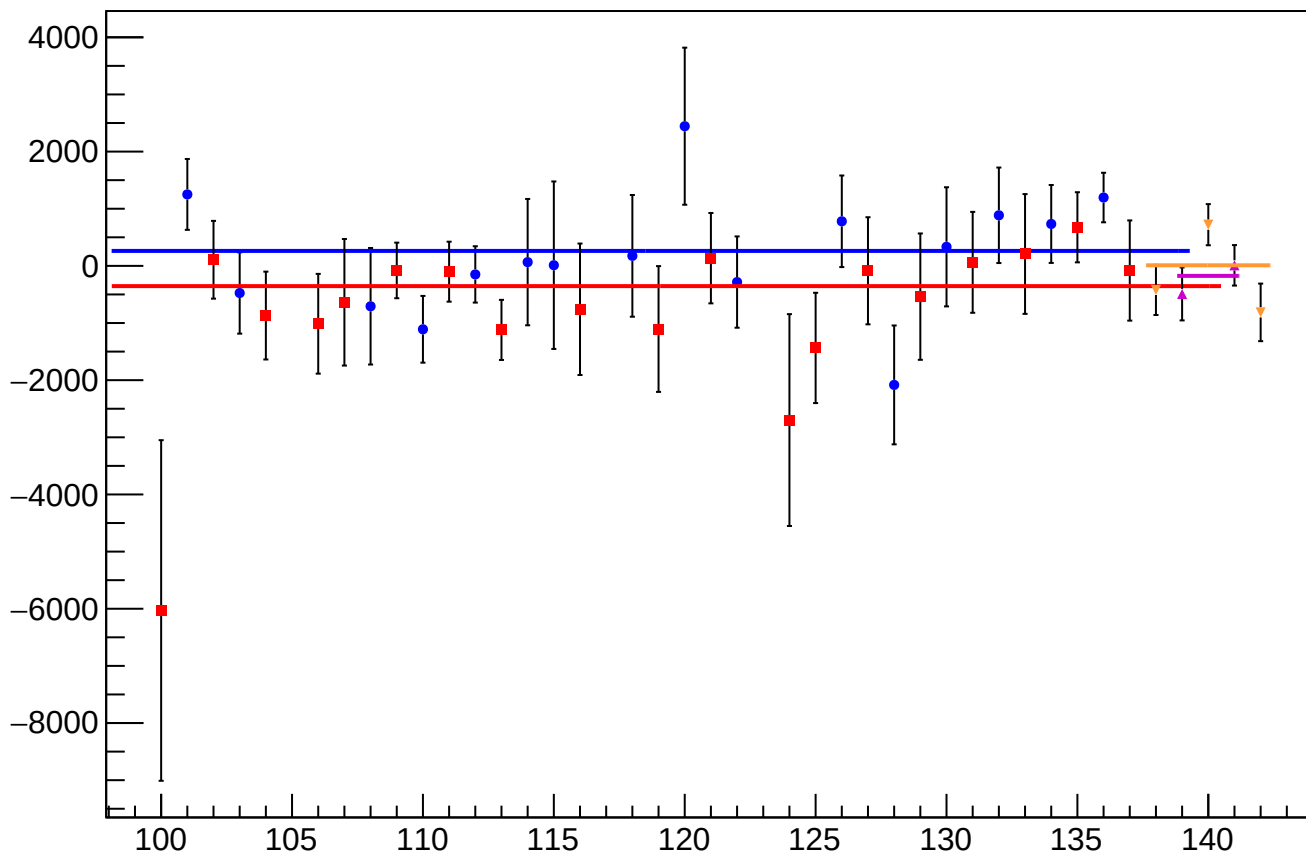
Right: 45.776 $\pm$ 0.009 χ^2 /NDF: 1039966.5/34

In: 45.683 $\pm$ 0.011 χ^2 /NDF:559156.6/17

Out: 45.286 $\pm$ 0.011 χ^2 /NDF:580300.9/21

All: 45.478 $\pm$ 0.008 χ^2 /NDF: 1140124.6/39

asym_sam_15_37_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 261.947 $\pm$ 185.212 χ^2 /NDF: 25.0/15

Left Out: 10.030 $\pm$ 243.524 χ^2 /NDF:7.5/2

Right Out: -354.204 $\pm$ 181.903 χ^2 /NDF: 15.2/18

Left In: -174.864 $\pm$ 281.461 χ^2 /NDF:0.7/1

Left: -69.125 $\pm$ 184.161 χ^2 /NDF: 8.5/4

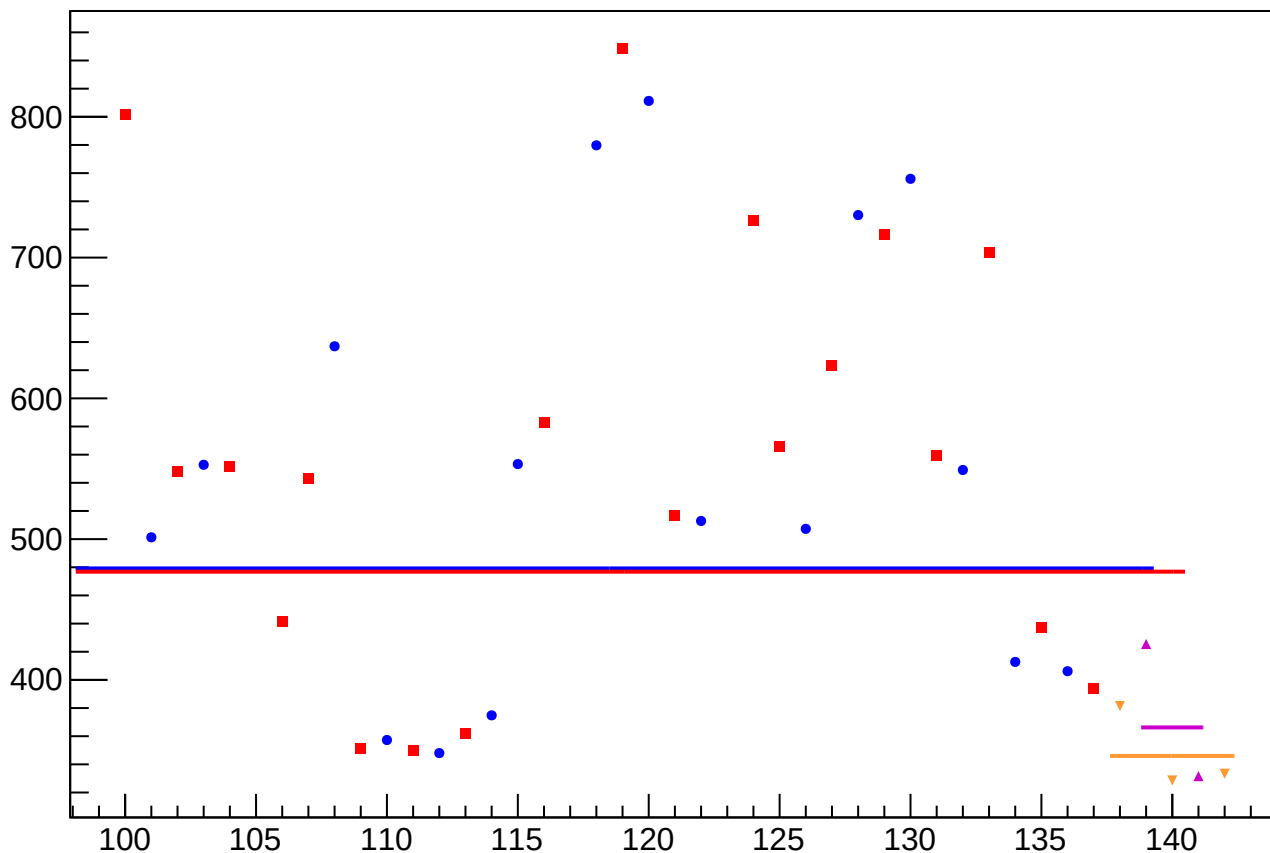
Right: -51.682 $\pm$ 129.779 χ^2 /NDF: 45.8/34

In: 129.956 $\pm$ 154.719 χ^2 /NDF:27.4/17

Out: -223.761 $\pm$ 145.734 χ^2 /NDF:24.2/21

All: -57.470 $\pm$ 106.084 χ^2 /NDF: 54.3/39

asym_sam_15_37_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 479.180+/-0.131 χ^2/NDF : 952722.6/15

Left Out: 345.983+/-0.172 χ^2/NDF : 18991.9/2

Right Out: 476.893+/-0.129 χ^2/NDF : 1003767.4/18

Left In: 366.239+/-0.199 χ^2/NDF : 51789.7/1

Left: 354.655+/-0.130 χ^2/NDF : 76706.1/4

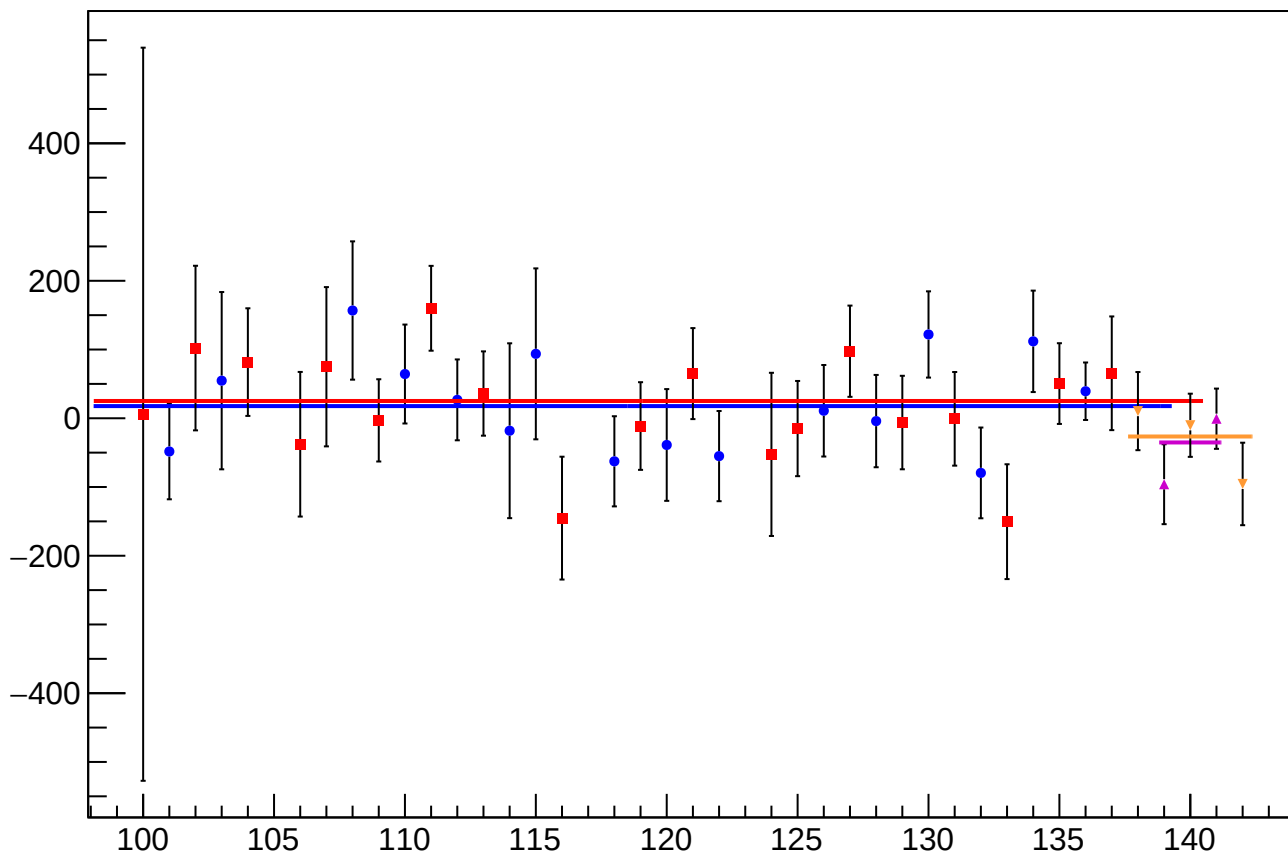
Right: 478.016+/-0.092 χ^2/NDF : 1956645.2/34

In: 445.053+/-0.109 χ^2/NDF : 1229233.1/17

Out: 430.010+/-0.103 χ^2/NDF : 1393730.4/21

All: 437.082+/-0.075 χ^2/NDF : 2632981.3/39

eigen_cor_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 17.706+/-17.470 χ^2/NDF : 13.9/15

Left Out: -26.524+/-30.703 χ^2/NDF : 1.9/2

Right Out: 25.145+/-17.339 χ^2/NDF : 18.0/18

Left In: -35.196+/-34.993 χ^2/NDF : 1.7/1

Left: -30.296+/-23.079 χ^2/NDF : 3.6/4

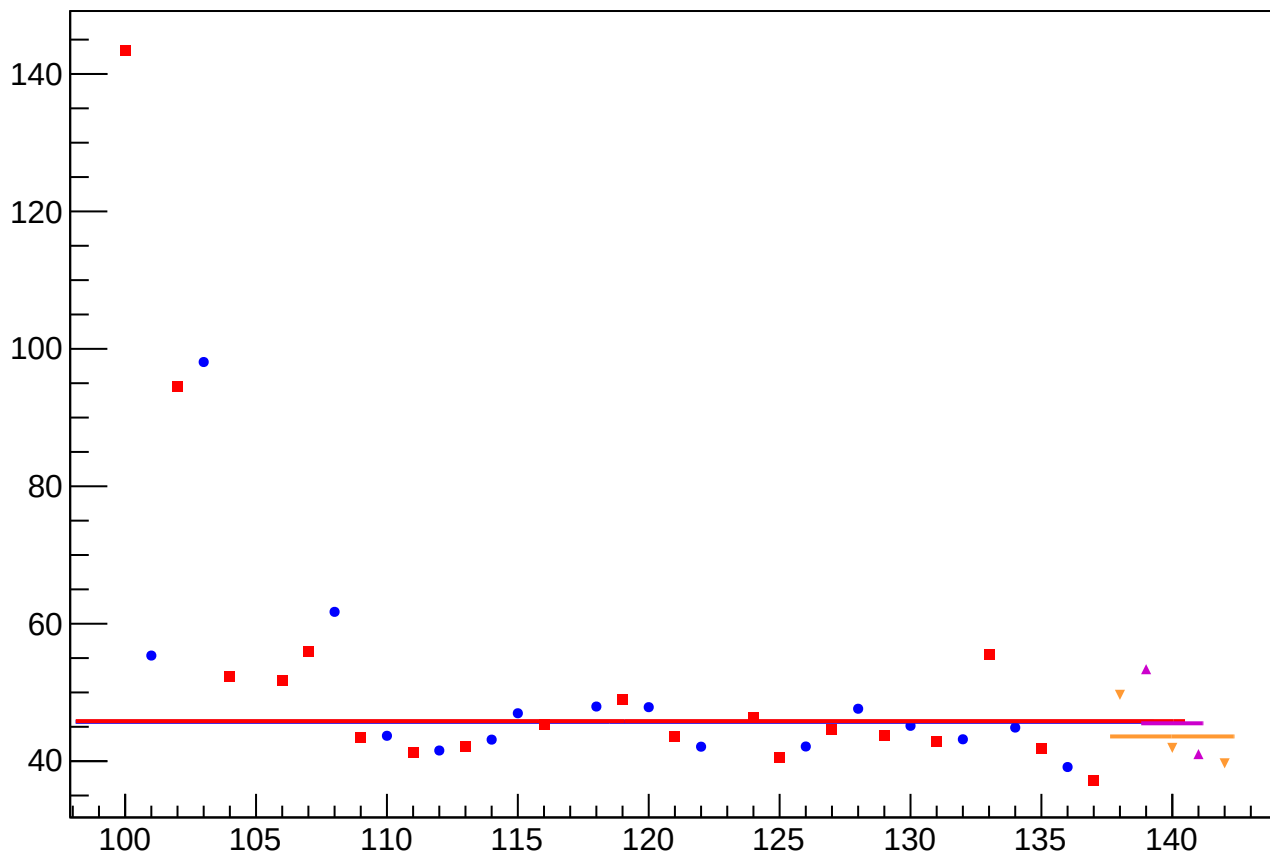
Right: 21.453+/-12.307 χ^2/NDF : 32.0/34

In: 7.151+/-15.630 χ^2/NDF : 17.5/17

Out: 12.651+/-15.098 χ^2/NDF : 22.0/21

All: 9.996+/-10.859 χ^2/NDF : 39.6/39

eigen_cor_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 45.727+/-0.012 χ^2/NDF : 501463.8/15

Left Out: 43.596+/-0.022 χ^2/NDF : 33833.4/2

Right Out: 45.825+/-0.012 χ^2/NDF : 538470.5/18

Left In: 45.508+/-0.025 χ^2/NDF : 57630.5/1

Left: 44.428+/-0.016 χ^2/NDF : 94840.1/4

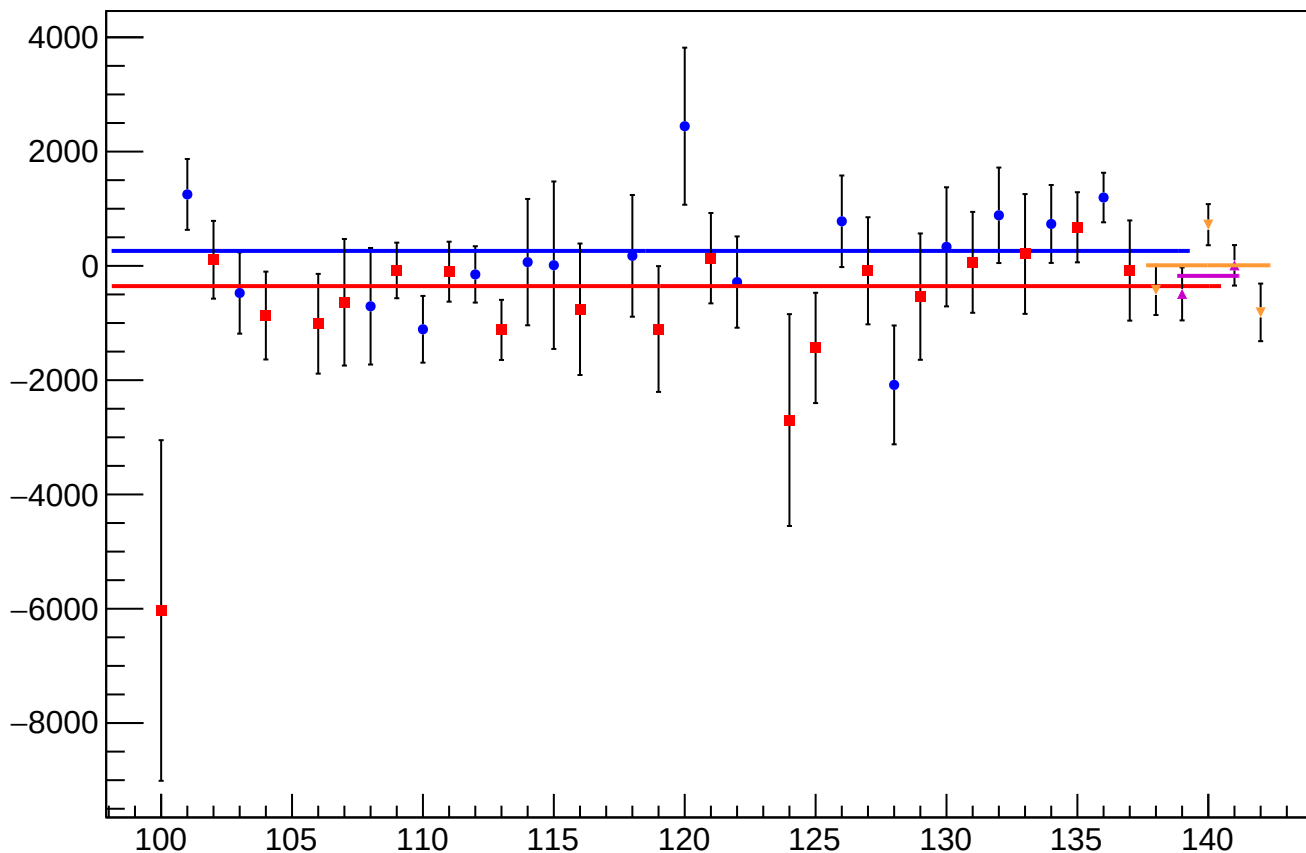
Right: 45.776+/-0.009 χ^2/NDF : 1039966.5/34

In: 45.683+/-0.011 χ^2/NDF : 559156.6/17

Out: 45.286+/-0.011 χ^2/NDF : 580300.9/21

All: 45.478+/-0.008 χ^2/NDF : 1140124.6/39

asym_sam_15_37_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 261.947 ± 185.212 $\chi^2/\text{NDF}: 25.0/15$

Left Out: 10.030 ± 243.524 $\chi^2/\text{NDF}: 7.5/2$

Right Out: -354.204 ± 181.903 $\chi^2/\text{NDF}: 15.2/18$

Left In: -174.864 ± 281.461 $\chi^2/\text{NDF}: 0.7/1$

Left: -69.125 ± 184.161 $\chi^2/\text{NDF}: 8.5/4$

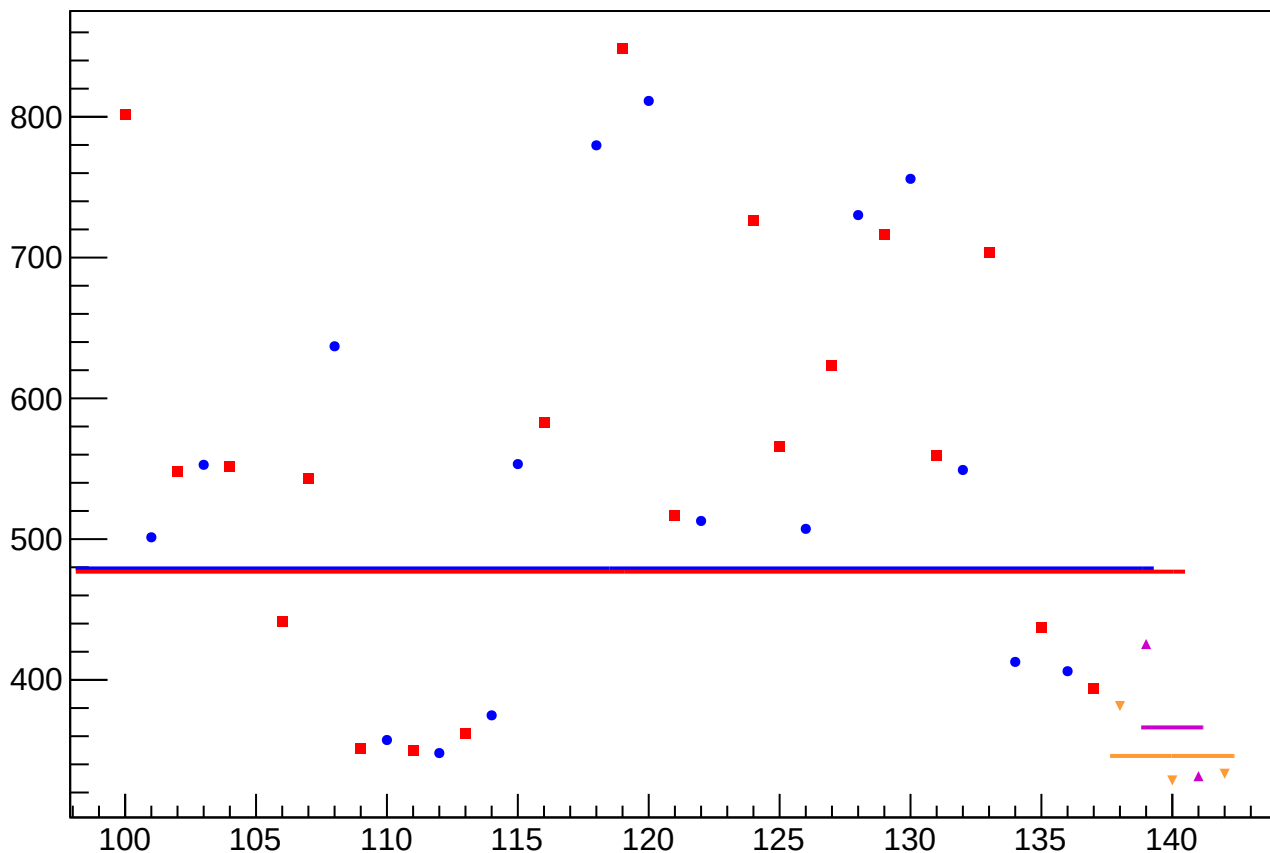
Right: -51.682 ± 129.779 $\chi^2/\text{NDF}: 45.8/34$

In: 129.956 ± 154.719 $\chi^2/\text{NDF}: 27.4/17$

Out: -223.761 ± 145.734 $\chi^2/\text{NDF}: 24.2/21$

All: -57.470 ± 106.084 $\chi^2/\text{NDF}: 54.3/39$

asym_sam_15_37_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 479.180+/-0.131 χ^2/NDF : 952722.6/15

Left Out: 345.983+/-0.172 χ^2/NDF : 18991.9/2

Right Out: 476.893+/-0.129 χ^2/NDF : 1003767.4/18

Left In: 366.239+/-0.199 χ^2/NDF : 51789.7/1

Left: 354.655+/-0.130 χ^2/NDF : 76706.1/4

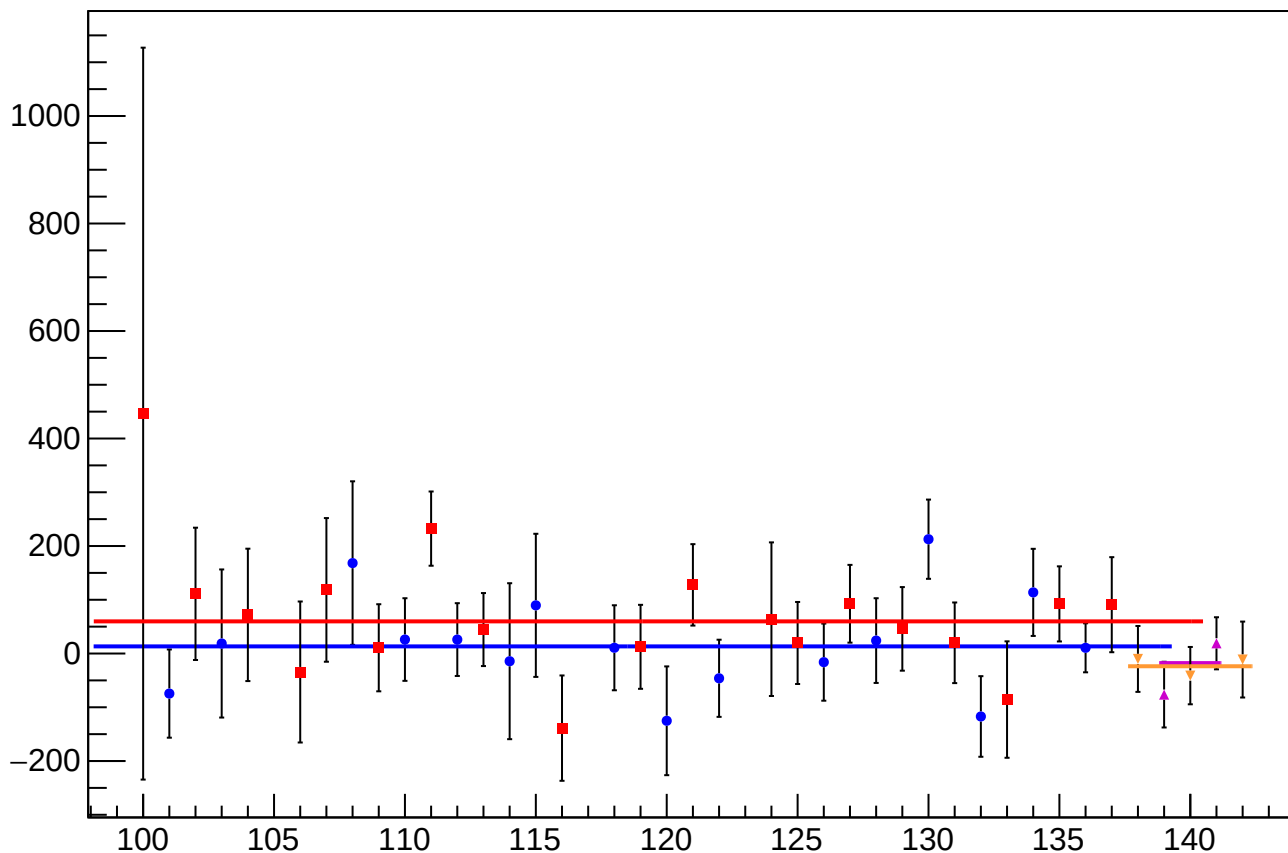
Right: 478.016+/-0.092 χ^2/NDF : 1956645.2/34

In: 445.053+/-0.109 χ^2/NDF : 1229233.1/17

Out: 430.010+/-0.103 χ^2/NDF : 1393730.4/21

All: 437.082+/-0.075 χ^2/NDF : 2632981.3/39

dit_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 13.266 ± 19.849 χ^2/NDF : 17.2/15

Left Out: -23.688 ± 34.960 χ^2/NDF : 0.2/2

Right Out: 59.810 ± 20.234 χ^2/NDF : 16.1/18

Left In: -17.818 ± 37.971 χ^2/NDF : 1.5/1

Left: -20.995 ± 25.719 χ^2/NDF : 1.7/4

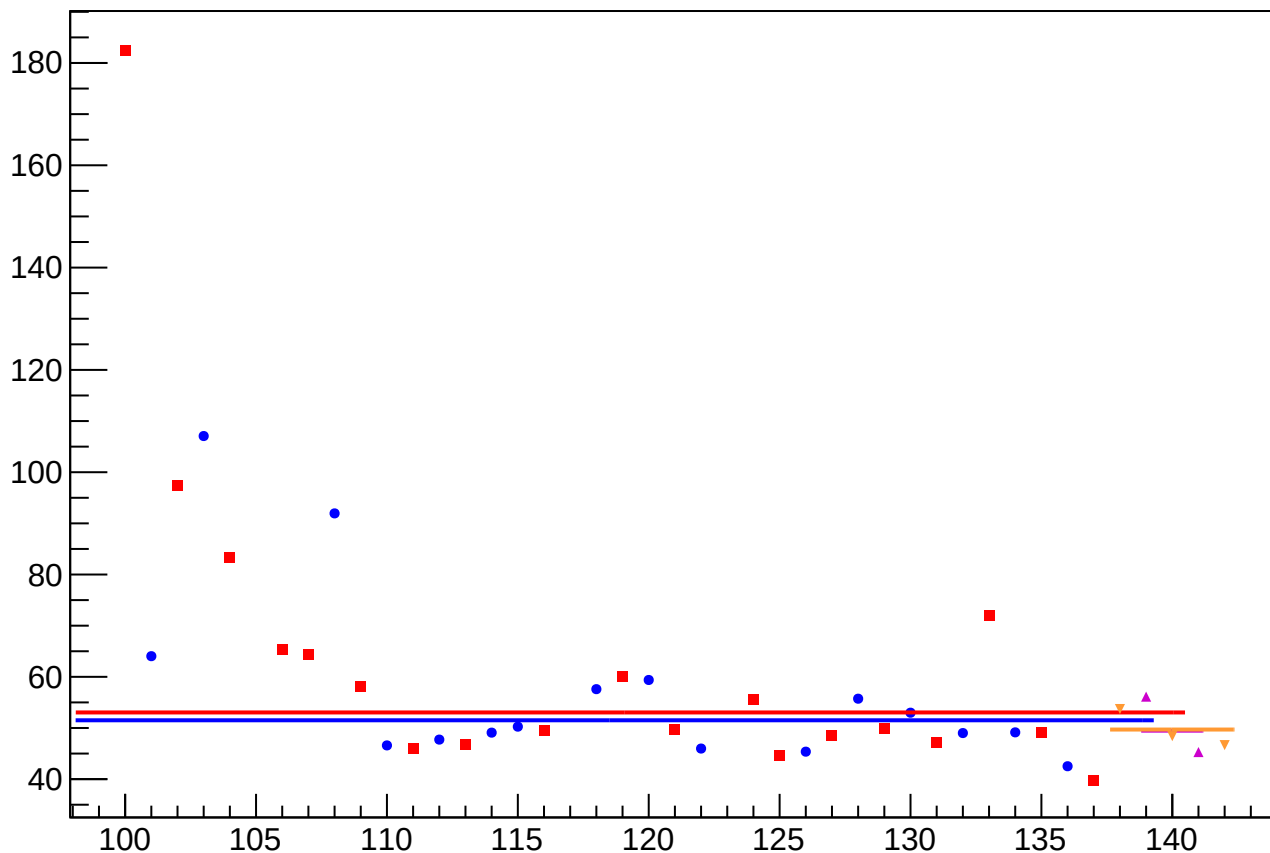
Right: 36.091 ± 14.170 χ^2/NDF : 36.0/34

In: 6.595 ± 17.591 χ^2/NDF : 19.3/17

Out: 38.858 ± 17.512 χ^2/NDF : 20.6/21

All: 22.799 ± 12.411 χ^2/NDF : 41.5/39

dit_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 51.506 $\pm$ 0.014 χ^2 /NDF: 667059.0/15

Left Out: 49.696 $\pm$ 0.025 χ^2 /NDF: 13454.8/2

Right Out: 53.037 $\pm$ 0.014 χ^2 /NDF: 712908.4/18

Left In: 49.476 $\pm$ 0.027 χ^2 /NDF: 38585.6/1

Left: 49.595 $\pm$ 0.018 χ^2 /NDF: 52076.6/4

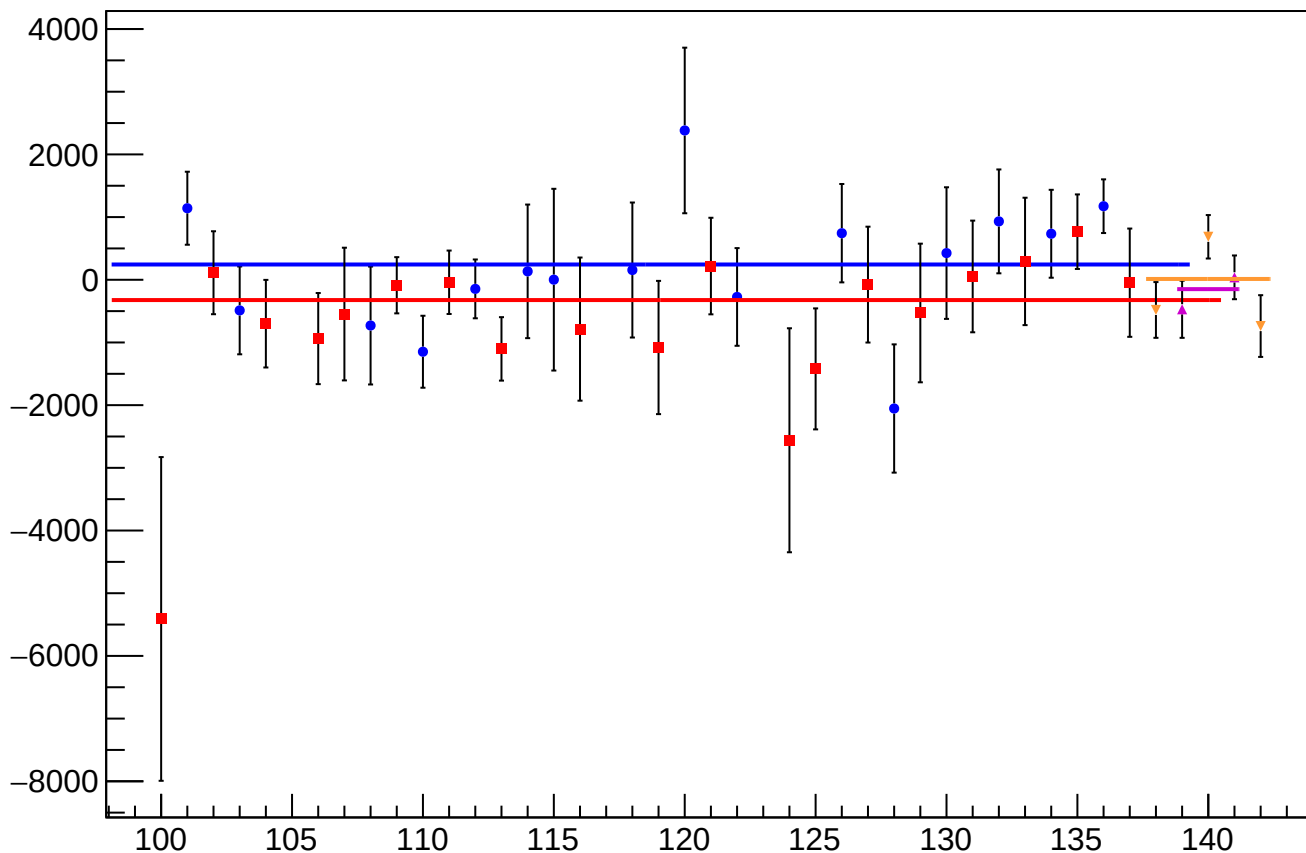
Right: 52.257 $\pm$ 0.010 χ^2 /NDF: 1385808.8/34

In: 51.070 $\pm$ 0.012 χ^2 /NDF: 710131.6/17

Out: 52.199 $\pm$ 0.012 χ^2 /NDF: 740050.9/21

All: 51.637 $\pm$ 0.009 χ^2 /NDF: 1454319.3/39

asym_sam_15_37_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 243.828 $\pm$ 180.872 χ^2 /NDF: 25.6/15

Left Out: 13.063 $\pm$ 238.985 χ^2 /NDF: 7.3/2

Right Out: -323.628 $\pm$ 173.632 χ^2 /NDF: 16.5/18

Left In: -149.228 $\pm$ 277.013 χ^2 /NDF: 0.8/1

Left: -56.187 $\pm$ 180.951 χ^2 /NDF: 8.3/4

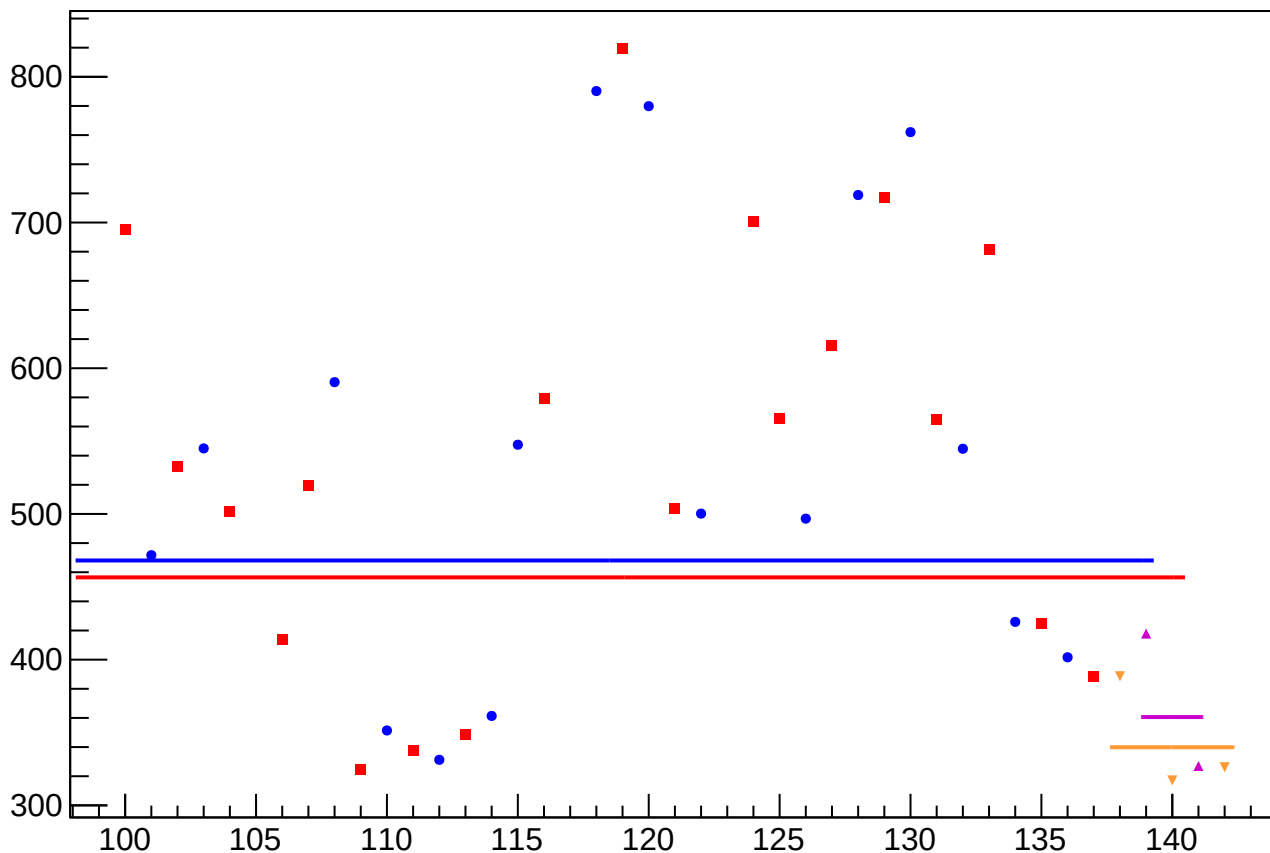
Right: -51.485 $\pm$ 125.258 χ^2 /NDF: 47.2/34

In: 126.344 $\pm$ 151.447 χ^2 /NDF: 27.8/17

Out: -207.305 $\pm$ 140.471 χ^2 /NDF: 25.1/21

All: -53.008 $\pm$ 102.990 χ^2 /NDF: 55.5/39

asym_sam_15_37_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 468.066 $\pm$ 0.128 χ^2 /NDF: 982915.0/15

Left Out: 339.895 $\pm$ 0.169 χ^2 /NDF: 34206.6/2

Right Out: 456.468 $\pm$ 0.123 χ^2 /NDF: 1082568.2/18

Left In: 360.616 $\pm$ 0.196 χ^2 /NDF: 50123.2/1

Left: 348.736 $\pm$ 0.128 χ^2 /NDF: 90745.2/4

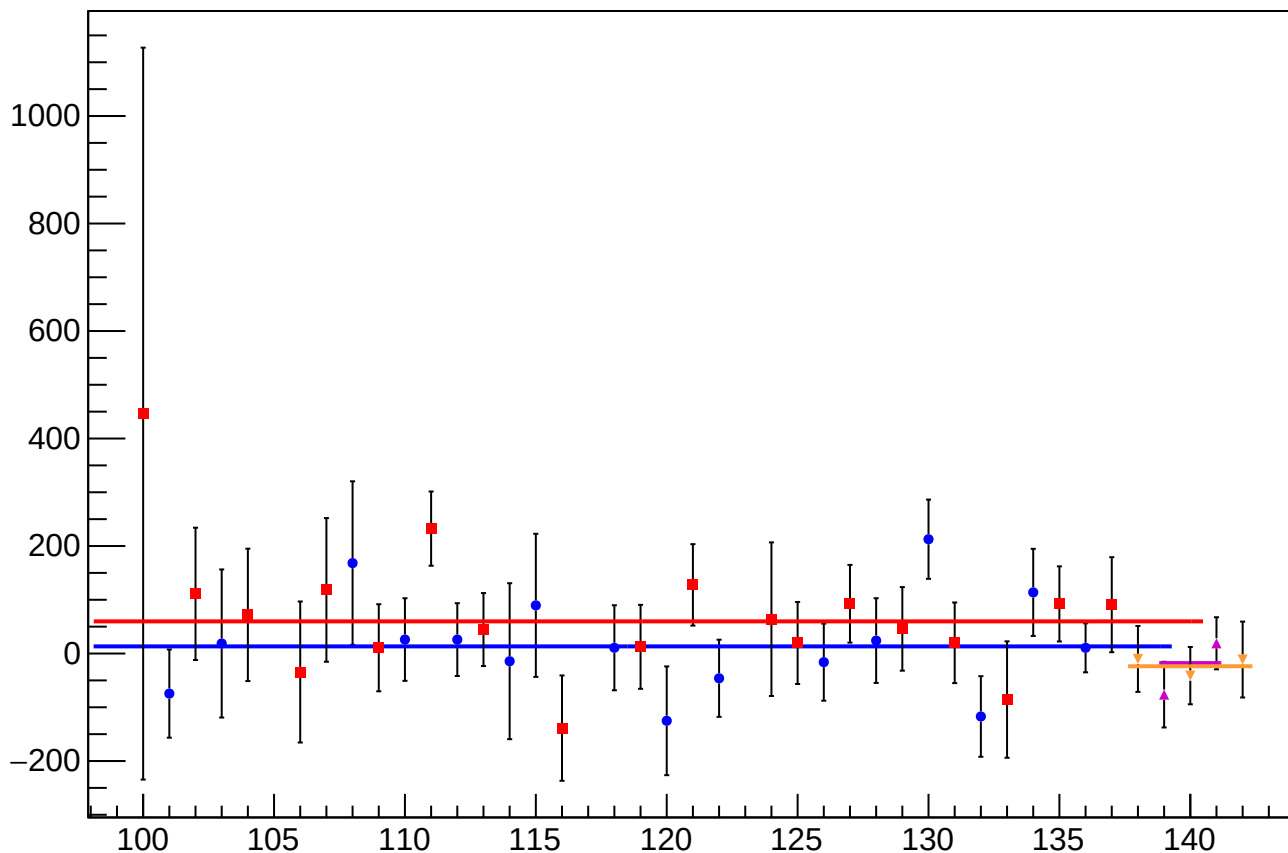
Right: 462.030 $\pm$ 0.089 χ^2 /NDF: 2069762.6/34

In: 435.949 $\pm$ 0.107 χ^2 /NDF: 1244011.0/17

Out: 416.193 $\pm$ 0.099 χ^2 /NDF: 1428235.6/21

All: 425.329 $\pm$ 0.073 χ^2 /NDF: 2690540.5/39

eigen_dit_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 13.266 ± 19.849 $\chi^2/\text{NDF}: 17.2/15$

Left Out: -23.688 ± 34.960 $\chi^2/\text{NDF}: 0.2/2$

Right Out: 59.811 ± 20.234 $\chi^2/\text{NDF}: 16.1/18$

Left In: -17.819 ± 37.971 $\chi^2/\text{NDF}: 1.5/1$

Left: -20.995 ± 25.719 $\chi^2/\text{NDF}: 1.7/4$

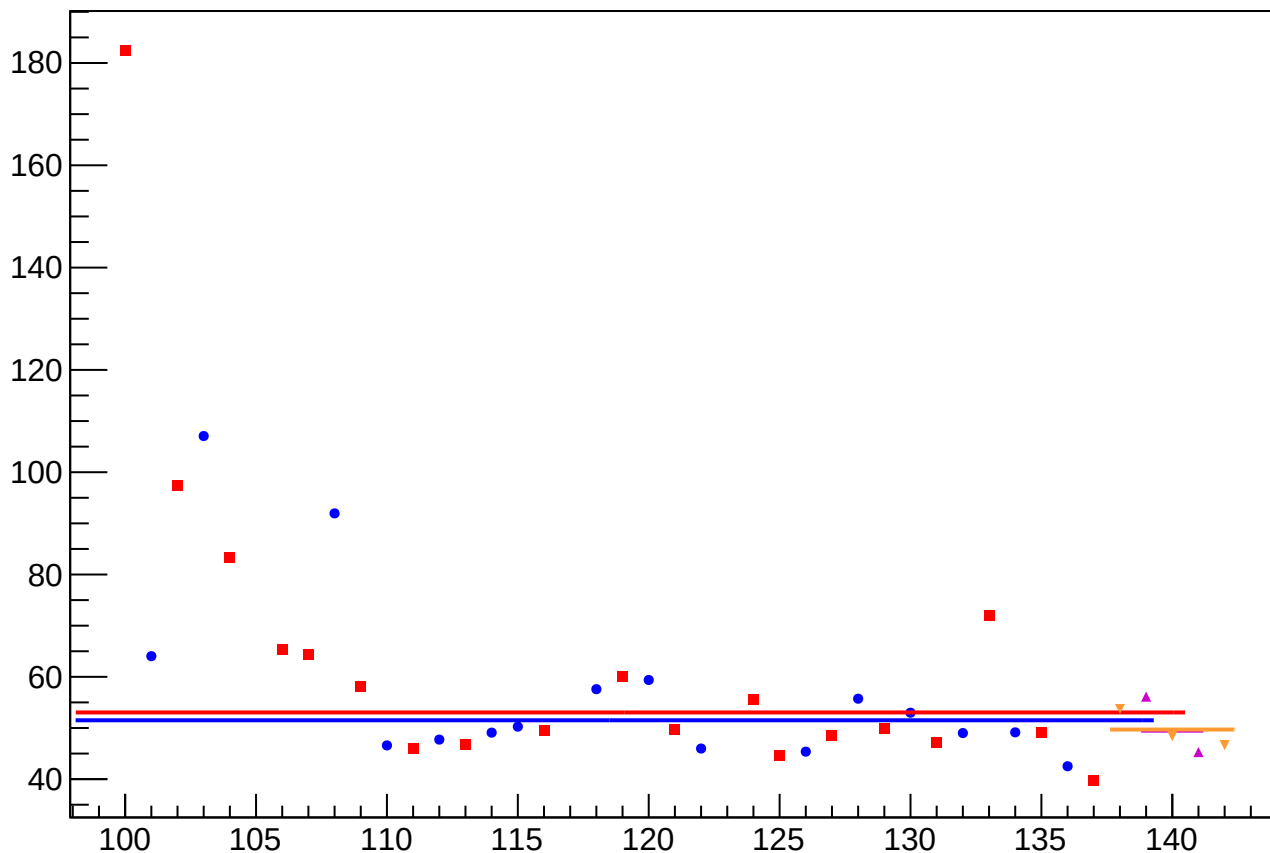
Right: 36.092 ± 14.170 $\chi^2/\text{NDF}: 36.0/34$

In: 6.595 ± 17.591 $\chi^2/\text{NDF}: 19.3/17$

Out: 38.859 ± 17.512 $\chi^2/\text{NDF}: 20.6/21$

All: 22.799 ± 12.411 $\chi^2/\text{NDF}: 41.5/39$

eigen_dit_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 51.506 $\pm$ 0.014 χ^2 /NDF: 667064.6/15

Left Out: 49.696 $\pm$ 0.025 χ^2 /NDF: 13455.4/2

Right Out: 53.037 $\pm$ 0.014 χ^2 /NDF: 712918.4/18

Left In: 49.476 $\pm$ 0.027 χ^2 /NDF: 38584.7/1

Left: 49.595 $\pm$ 0.018 χ^2 /NDF: 52076.4/4

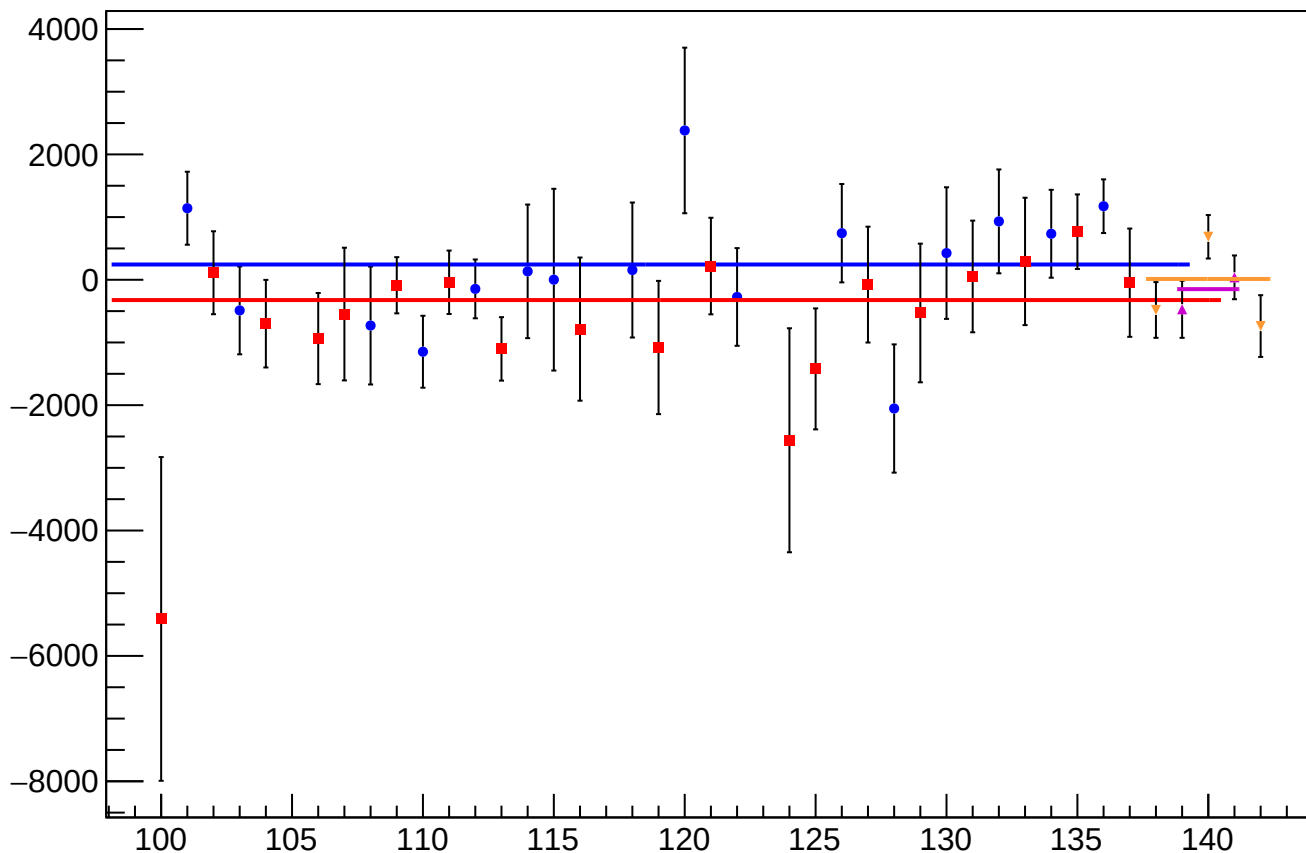
Right: 52.257 $\pm$ 0.010 χ^2 /NDF: 1385824.6/34

In: 51.070 $\pm$ 0.012 χ^2 /NDF: 710135.9/17

Out: 52.199 $\pm$ 0.012 χ^2 /NDF: 740061.3/21

All: 51.637 $\pm$ 0.009 χ^2 /NDF: 1454334.1/39

asym_sam_15_37_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 243.826 $\pm$ 180.872 χ^2 /NDF: 25.6/15

Left Out: 13.064 $\pm$ 238.985 χ^2 /NDF: 7.3/2

Right Out: -323.628 $\pm$ 173.631 χ^2 /NDF: 16.5/18

Left In: -149.228 $\pm$ 277.013 χ^2 /NDF: 0.8/1

Left: -56.187 $\pm$ 180.951 χ^2 /NDF: 8.3/4

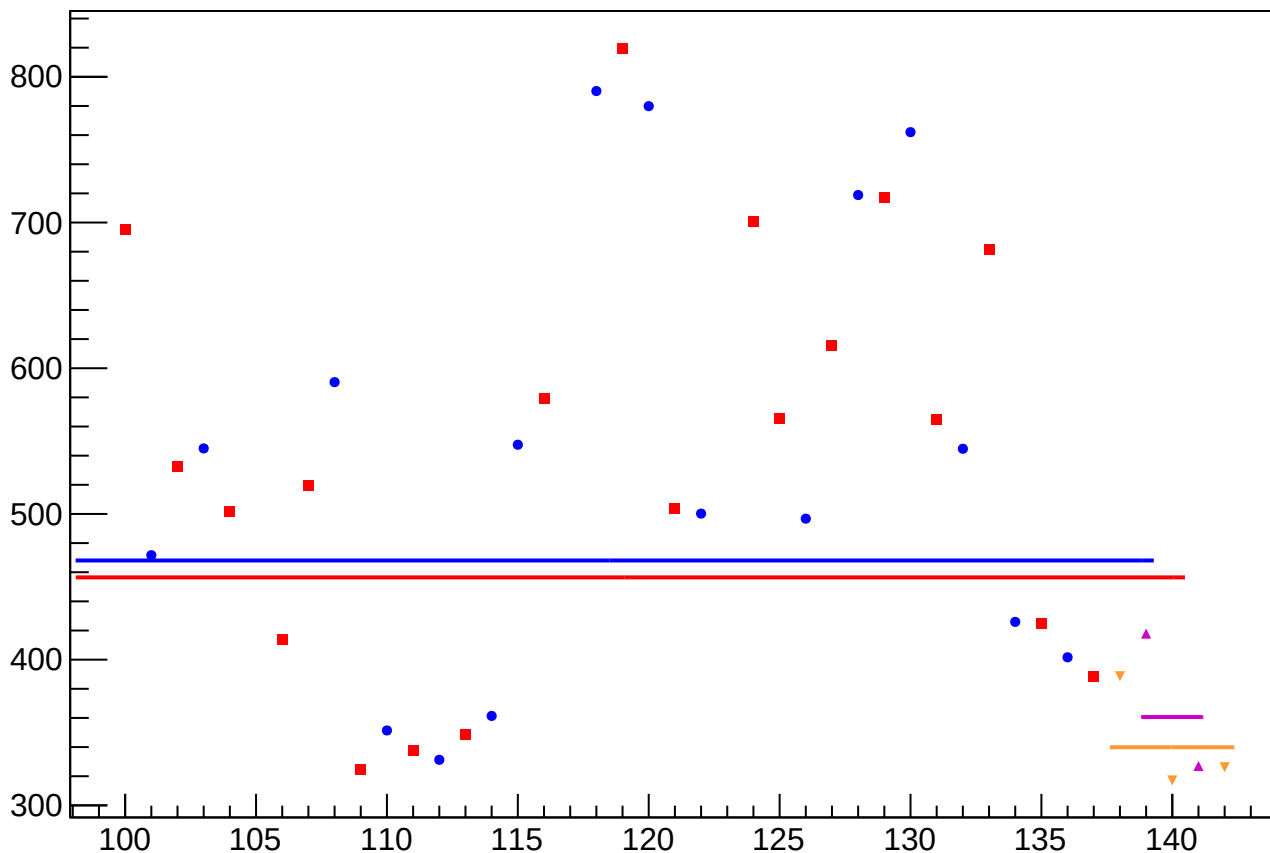
Right: -51.485 $\pm$ 125.257 χ^2 /NDF: 47.2/34

In: 126.343 $\pm$ 151.447 χ^2 /NDF: 27.8/17

Out: -207.305 $\pm$ 140.471 χ^2 /NDF: 25.1/21

All: -53.008 $\pm$ 102.990 χ^2 /NDF: 55.5/39

asym_sam_15_37_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 468.065 $\pm$ 0.128 χ^2 /NDF: 982915.8/15

Left Out: 339.895 $\pm$ 0.169 χ^2 /NDF: 34207.1/2

Right Out: 456.467 $\pm$ 0.123 χ^2 /NDF: 1082565.2/18

Left In: 360.616 $\pm$ 0.196 χ^2 /NDF: 50123.2/1

Left: 348.737 $\pm$ 0.128 χ^2 /NDF: 90745.6/4

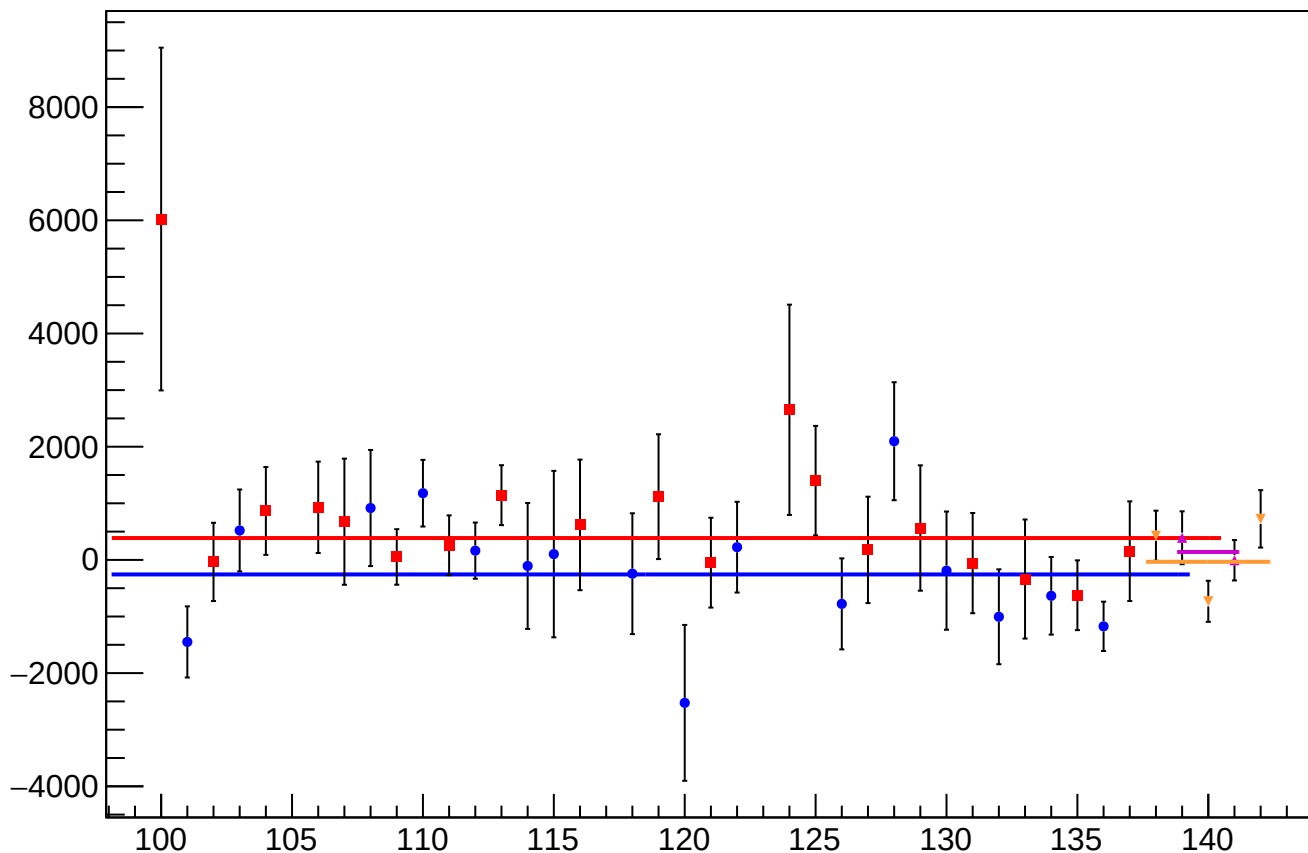
Right: 462.029 $\pm$ 0.089 χ^2 /NDF: 2069760.5/34

In: 435.949 $\pm$ 0.107 χ^2 /NDF: 1244006.4/17

Out: 416.193 $\pm$ 0.099 χ^2 /NDF: 1428225.6/21

All: 425.329 $\pm$ 0.073 χ^2 /NDF: 2690525.8/39

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -256.748+/-186.462 χ^2/NDF : 26.9/15

Left Out: -33.317+/-245.482 χ^2/NDF : 7.0/2

Right Out: 386.449+/-182.363 χ^2/NDF : 14.2/18

Left In: 140.289+/-283.646 χ^2/NDF : 0.5/1

Left: 41.029+/-185.620 χ^2/NDF : 7.7/4

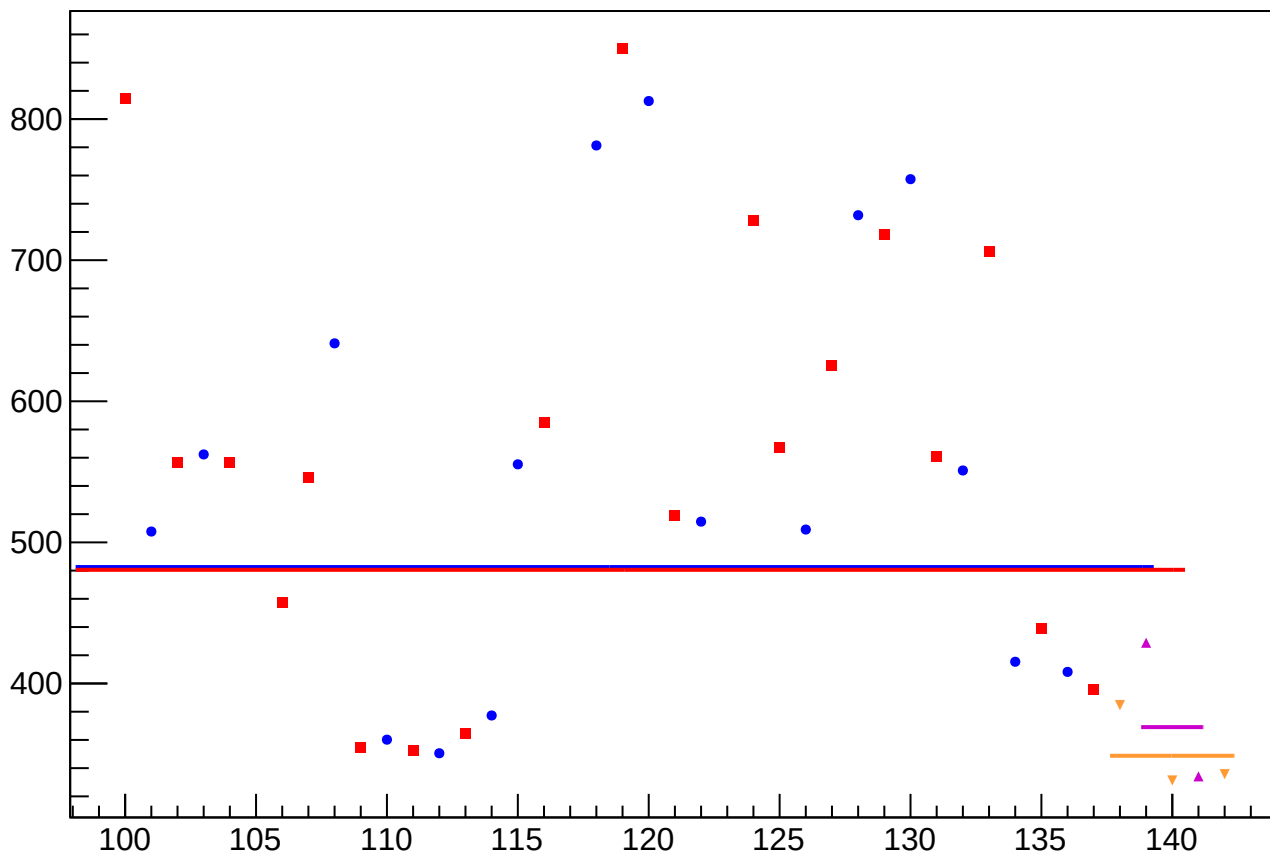
Right: 71.997+/-130.375 χ^2/NDF : 47.2/34

In: -136.945+/-155.811 χ^2/NDF : 28.8/17

Out: 237.174+/-146.389 χ^2/NDF : 23.1/21

All: 61.767+/-106.688 χ^2/NDF : 55.0/39

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 482.512+/-0.132 χ^2/NDF : 946526.1/15

Left Out: 348.772+/-0.174 χ^2/NDF : 19147.8/2

Right Out: 480.559+/-0.129 χ^2/NDF : 993796.3/18

Left In: 369.086+/-0.201 χ^2/NDF : 51888.9/1

Left: 357.472+/-0.131 χ^2/NDF : 76902.0/4

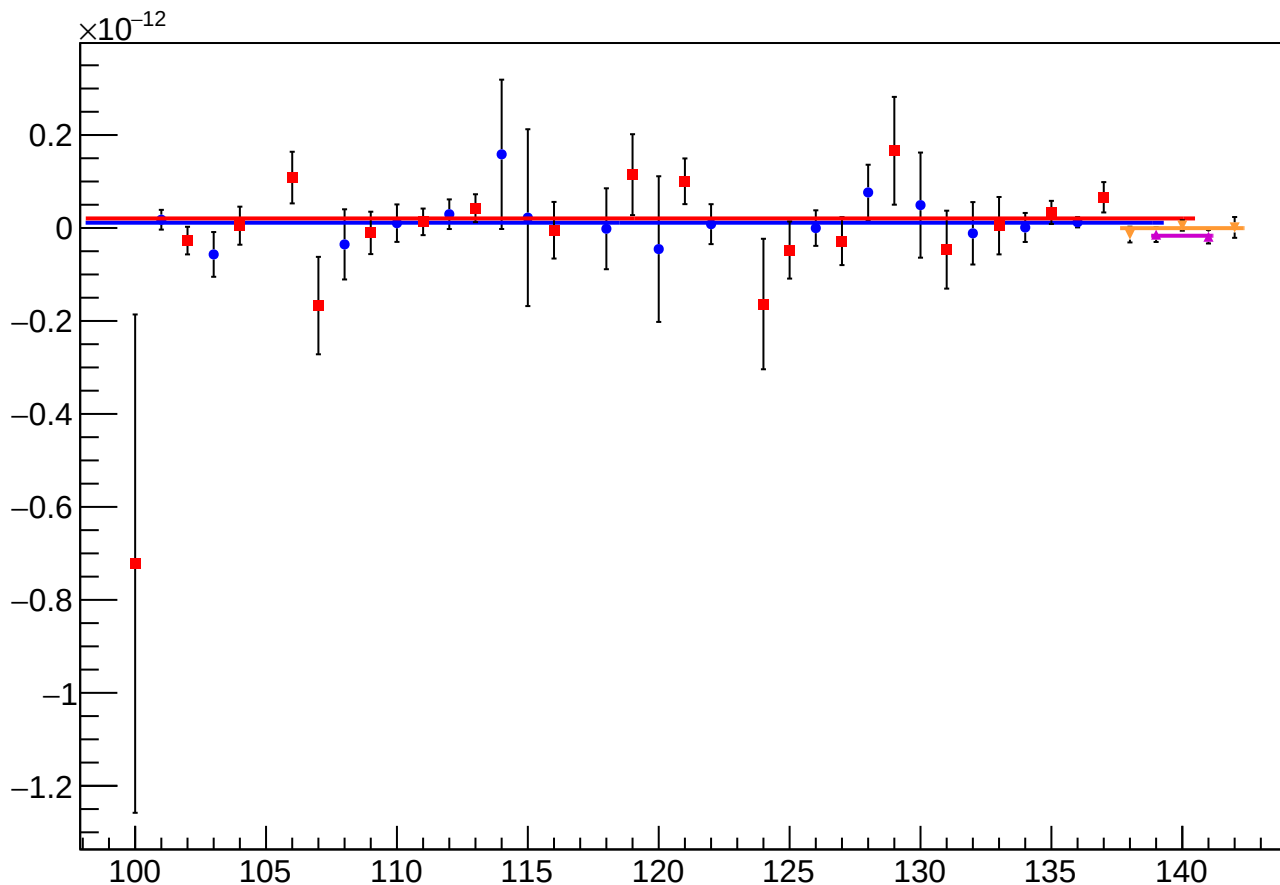
Right: 481.514+/-0.092 χ^2/NDF : 1940434.6/34

In: 448.287+/-0.110 χ^2/NDF : 1221727.8/17

Out: 433.694+/-0.104 χ^2/NDF : 1384378.6/21

All: 440.536+/-0.075 χ^2/NDF : 2615424.6/39

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 23.7/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 2.4/4

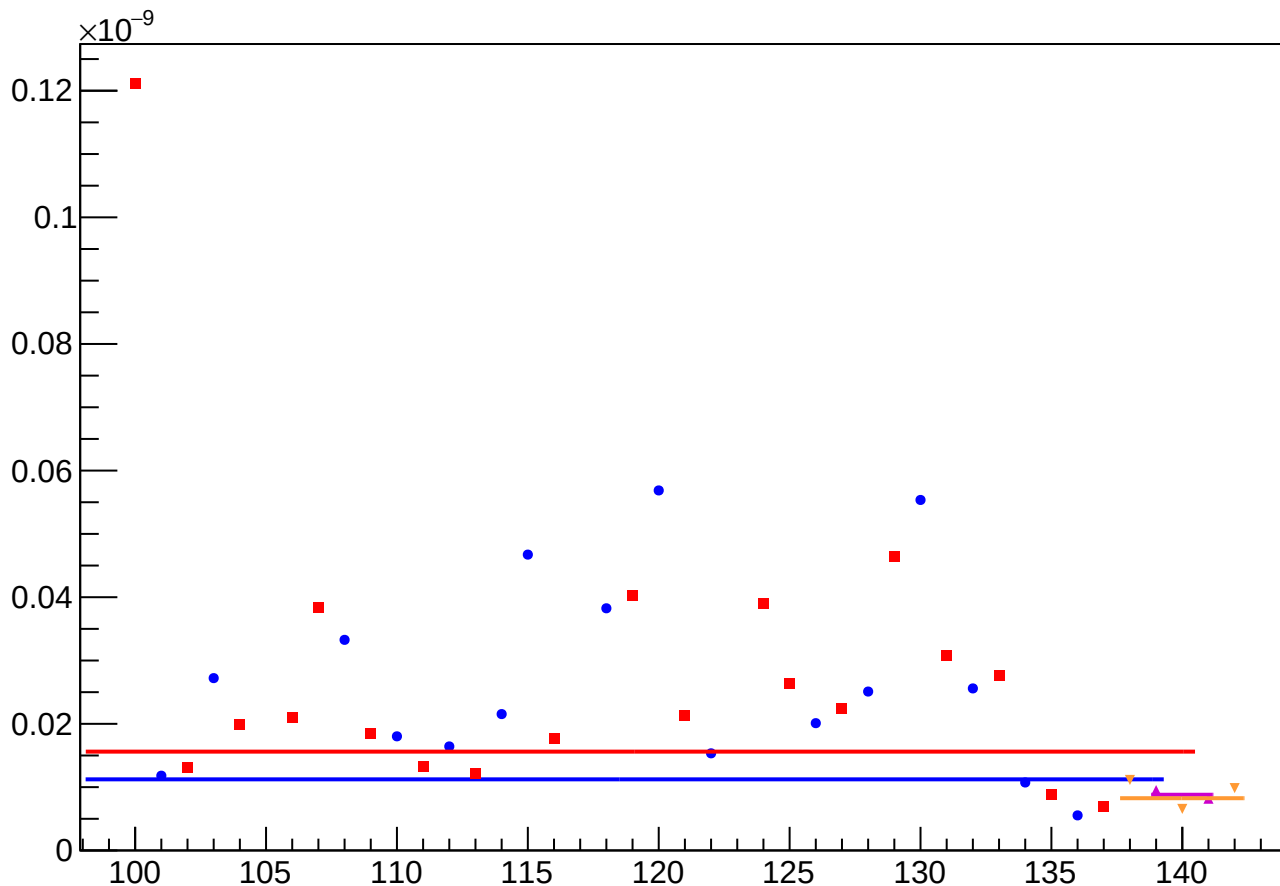
Right: 0.000+/-0.000 χ^2/NDF : 29.7/34

In: 0.000+/-0.000 χ^2/NDF : 9.9/17

Out: 0.000+/-0.000 χ^2/NDF : 27.1/21

All: 0.000+/-0.000 χ^2/NDF : 37.5/39

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2103068.7/15

Left Out: 0.000+/-0.000 χ^2/NDF :113136.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1184320.2/18

Left In: 0.000+/-0.000 χ^2/NDF :7942.0/1

Left: 0.000+/-0.000 χ^2/NDF : 124206.0/4

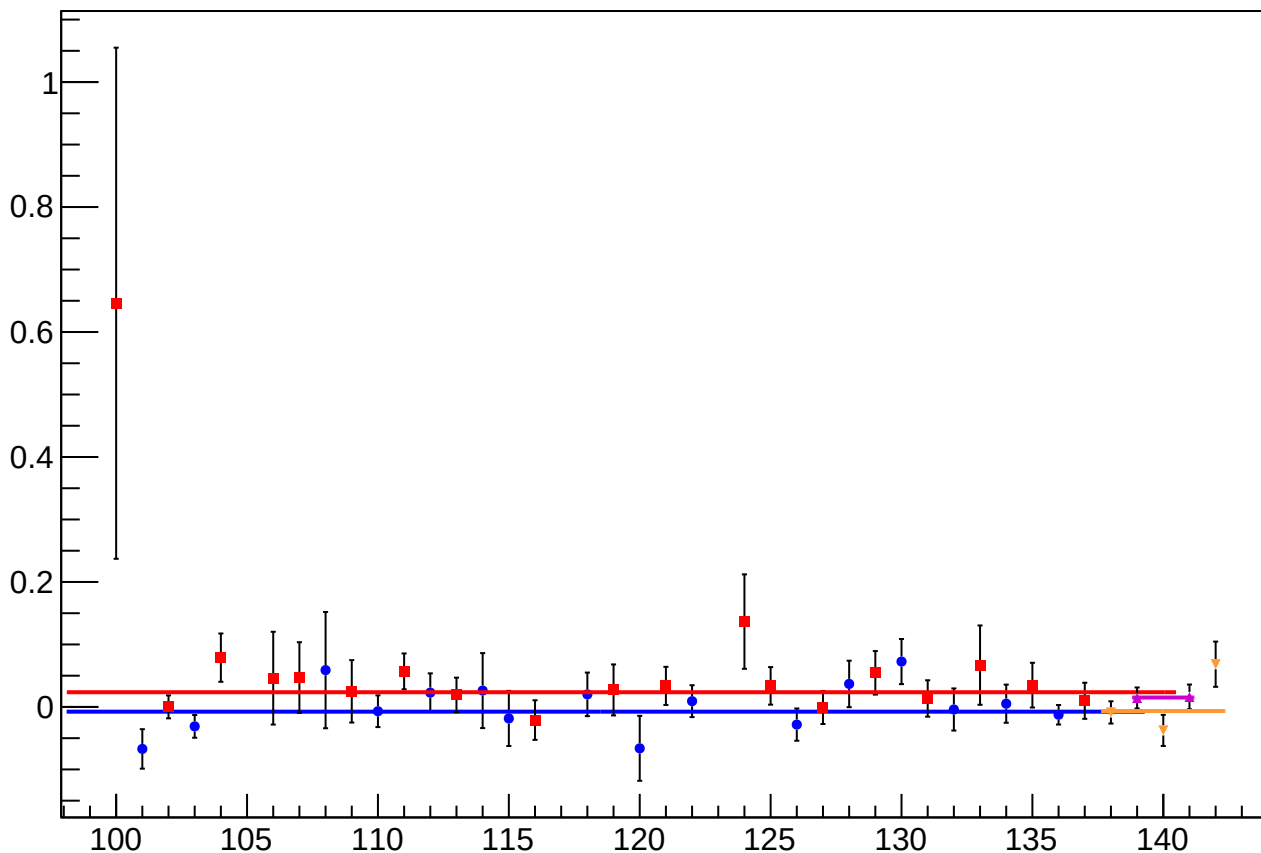
Right: 0.000+/-0.000 χ^2/NDF : 3514192.9/34

In: 0.000+/-0.000 χ^2/NDF :2177243.7/17

Out: 0.000+/-0.000 χ^2/NDF :1898427.4/21

All: 0.000+/-0.000 χ^2/NDF : 4097008.2/39

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.007 $\chi^2/\text{NDF}: 16.7/15$

Left Out: -0.007 ± 0.013 $\chi^2/\text{NDF}: 5.8/2$

Right Out: 0.024 ± 0.008 $\chi^2/\text{NDF}: 14.6/18$

Left In: 0.015 ± 0.013 $\chi^2/\text{NDF}: 0.0/1$

Left: 0.005 ± 0.009 $\chi^2/\text{NDF}: 7.2/4$

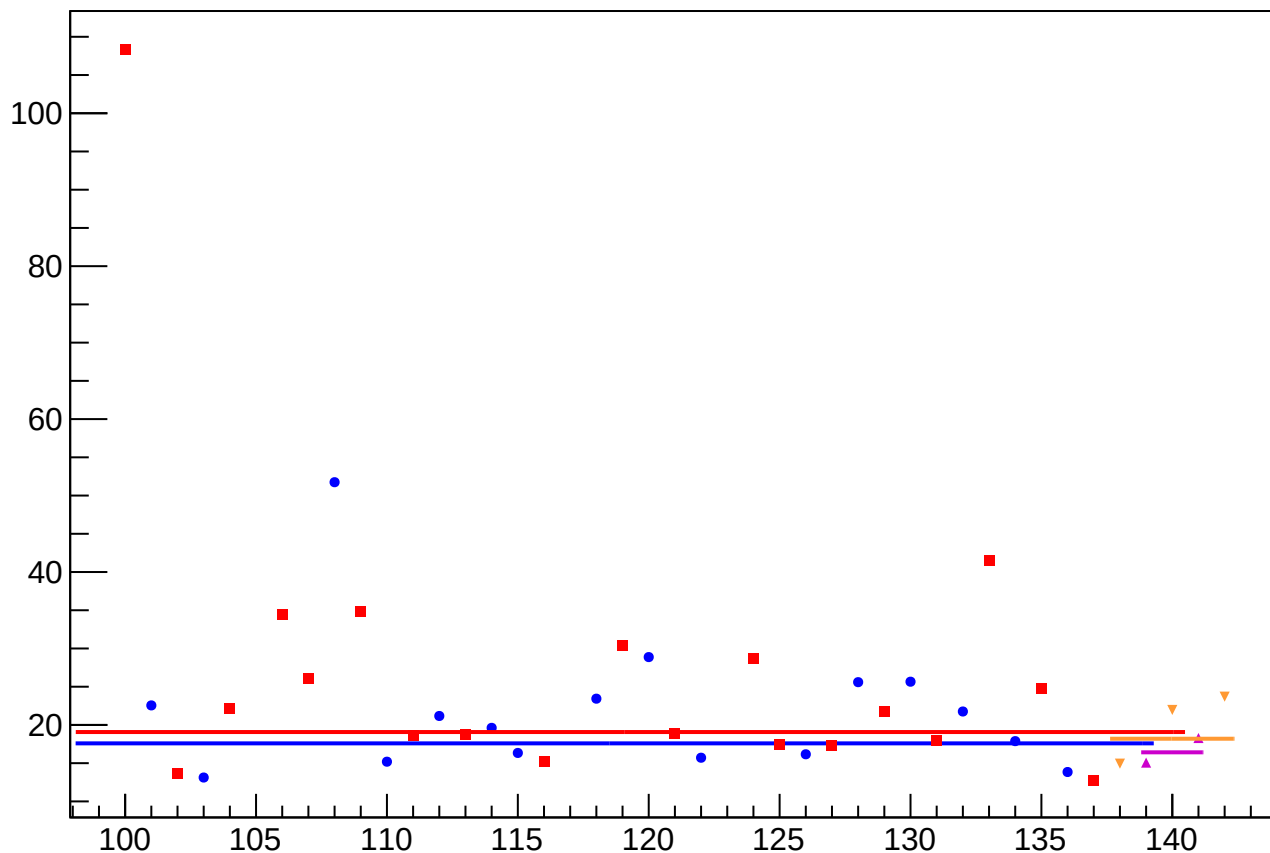
Right: 0.007 ± 0.005 $\chi^2/\text{NDF}: 40.0/34$

In: -0.002 ± 0.006 $\chi^2/\text{NDF}: 19.1/17$

Out: 0.016 ± 0.007 $\chi^2/\text{NDF}: 24.2/21$

All: 0.006 ± 0.005 $\chi^2/\text{NDF}: 47.3/39$

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 17.591+/-0.005 χ^2/NDF : 993249.5/15

Left Out: 18.197+/-0.010 χ^2/NDF :158769.1/2

Right Out: 19.072+/-0.005 χ^2/NDF : 1247983.1/18

Left In: 16.419+/-0.009 χ^2/NDF :30695.9/1

Left: 17.265+/-0.007 χ^2/NDF : 207790.2/4

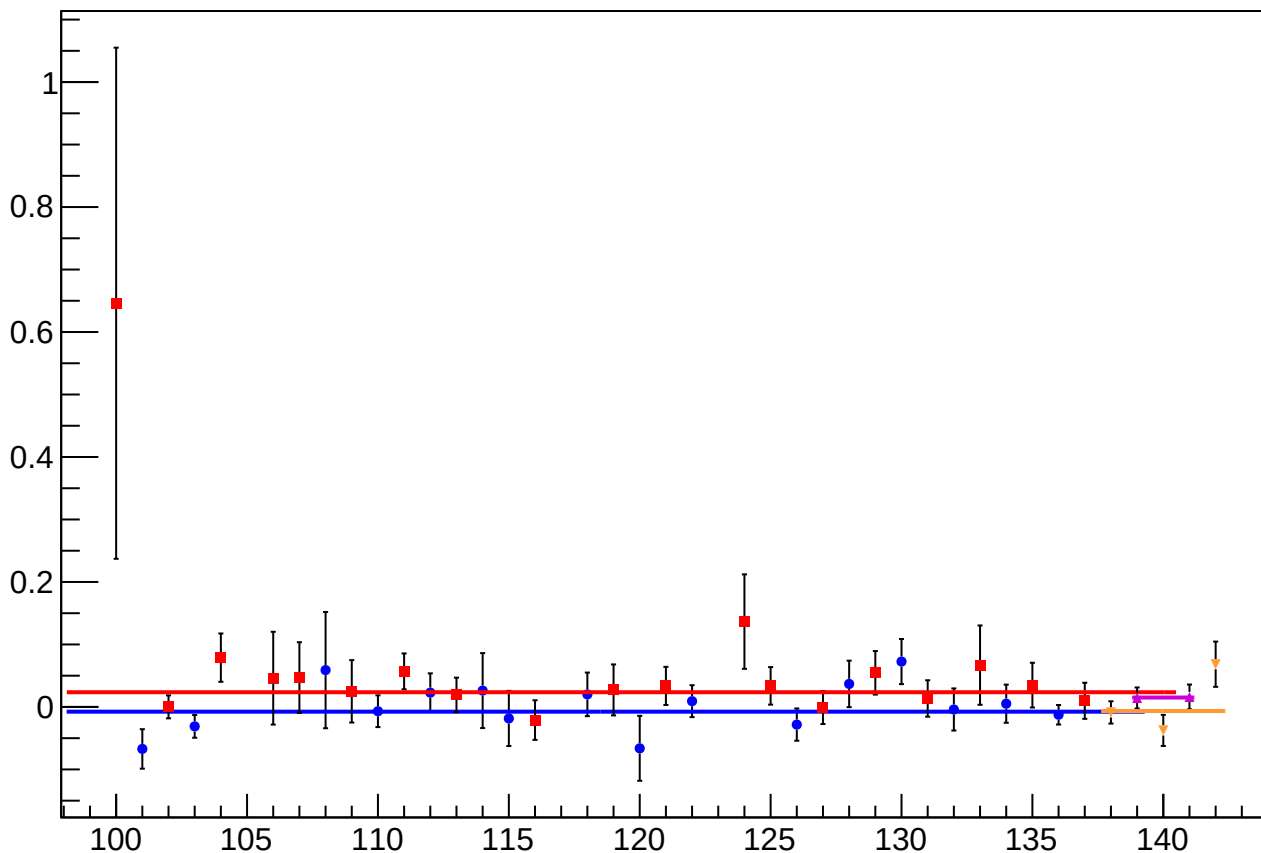
Right: 18.278+/-0.004 χ^2/NDF : 2280449.7/34

In: 17.310+/-0.004 χ^2/NDF :1036672.2/17

Out: 18.854+/-0.005 χ^2/NDF :1413099.4/21

All: 18.031+/-0.003 χ^2/NDF : 2506266.9/39

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.007 $\chi^2/\text{NDF}: 16.7/15$

Left Out: -0.007 ± 0.013 $\chi^2/\text{NDF}: 5.8/2$

Right Out: 0.024 ± 0.008 $\chi^2/\text{NDF}: 14.6/18$

Left In: 0.015 ± 0.013 $\chi^2/\text{NDF}: 0.0/1$

Left: 0.005 ± 0.009 $\chi^2/\text{NDF}: 7.2/4$

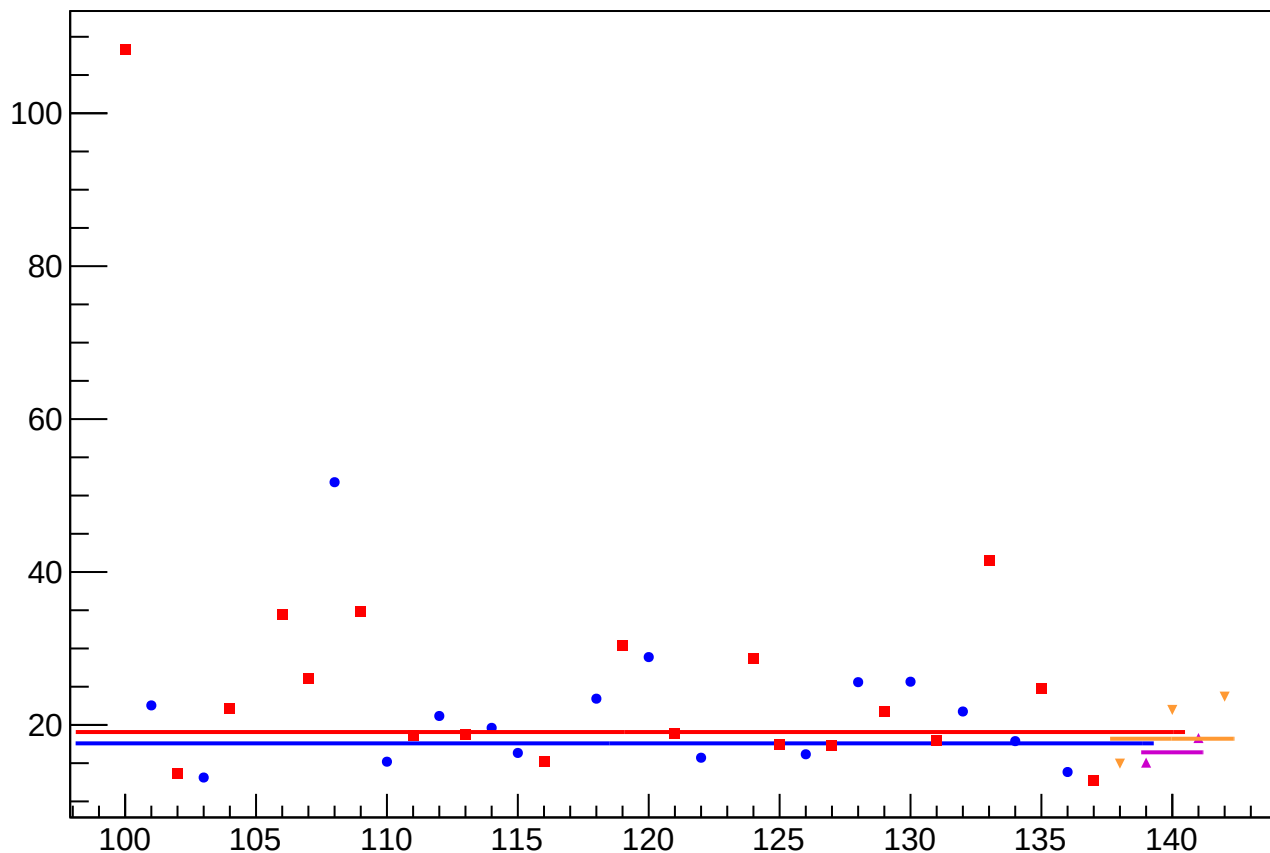
Right: 0.007 ± 0.005 $\chi^2/\text{NDF}: 40.0/34$

In: -0.002 ± 0.006 $\chi^2/\text{NDF}: 19.1/17$

Out: 0.016 ± 0.007 $\chi^2/\text{NDF}: 24.2/21$

All: 0.006 ± 0.005 $\chi^2/\text{NDF}: 47.3/39$

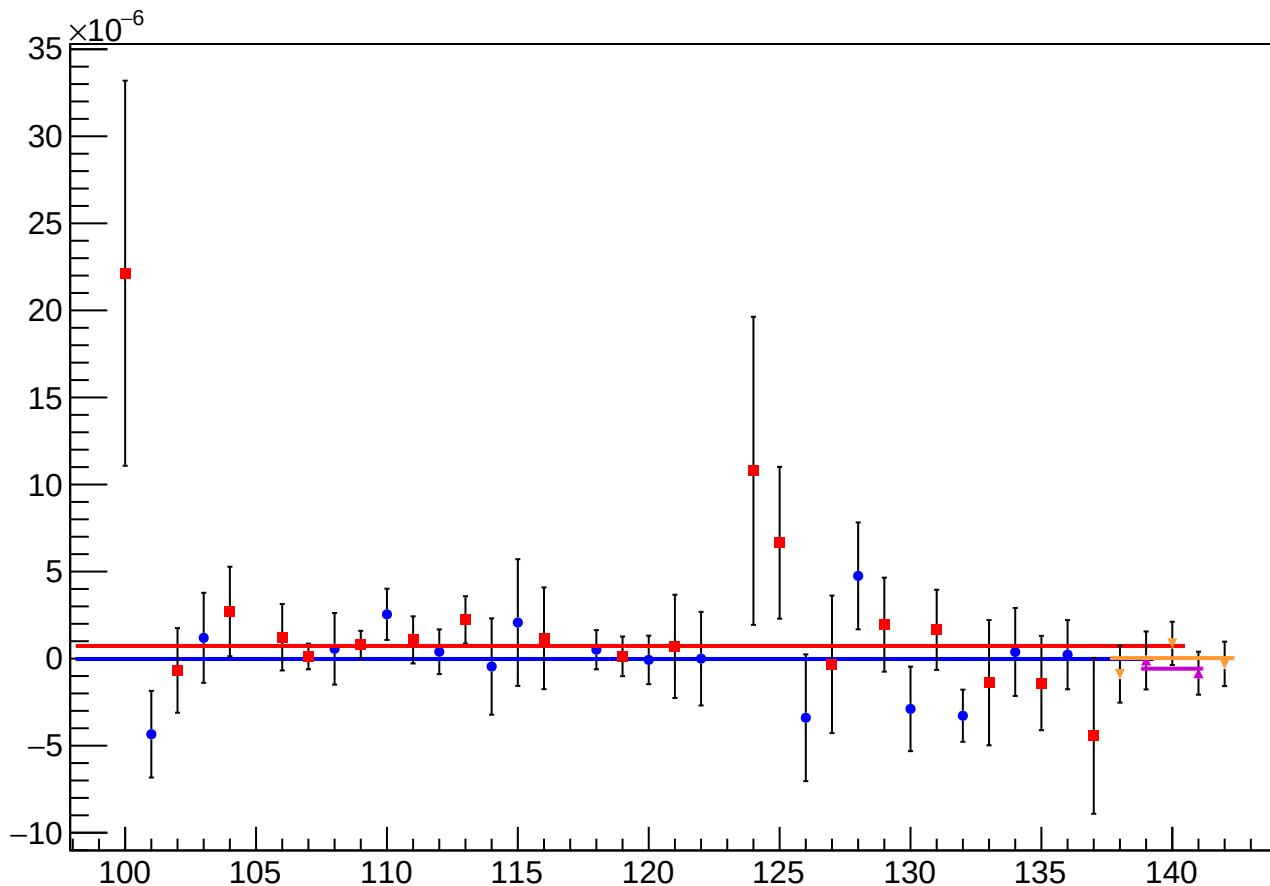
asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 17.591+/-0.005 χ^2/NDF : 993249.5/15
 Left Out: 18.197+/-0.010 χ^2/NDF : 158769.1/2
 Right Out: 19.072+/-0.005 χ^2/NDF : 1247983.1/18
 Left In: 16.419+/-0.009 χ^2/NDF : 30695.9/1

Left: 17.265+/-0.007 χ^2/NDF : 207790.2/4
 Right: 18.278+/-0.004 χ^2/NDF : 2280449.7/34
 In: 17.310+/-0.004 χ^2/NDF : 1036672.2/17
 Out: 18.854+/-0.005 χ^2/NDF : 1413099.4/21
 All: 18.031+/-0.003 χ^2/NDF : 2506266.9/39

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 12.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.1/1

Left: -0.000+/-0.000 χ^2/NDF : 1.2/4

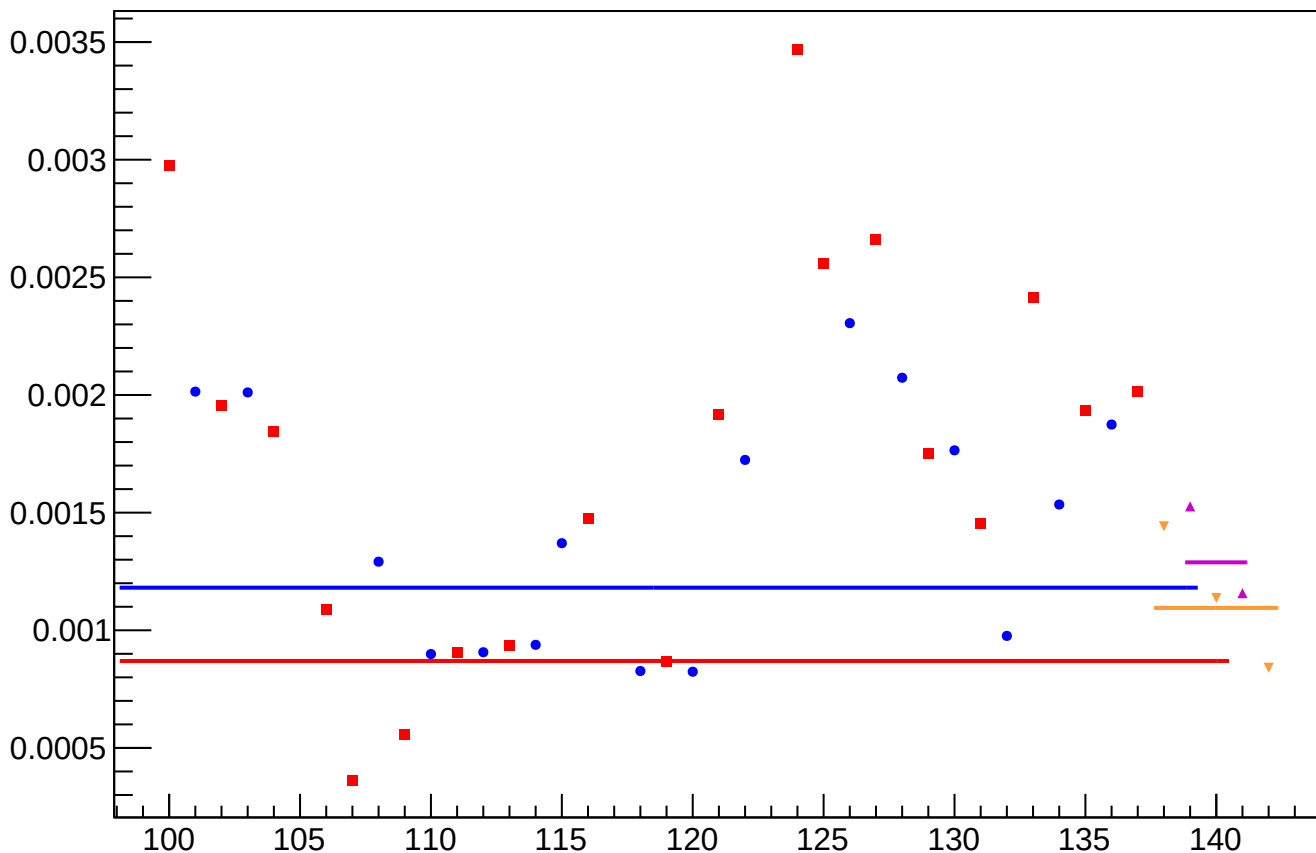
Right: 0.000+/-0.000 χ^2/NDF : 30.9/34

In: -0.000+/-0.000 χ^2/NDF : 16.9/17

Out: 0.000+/-0.000 χ^2/NDF : 14.4/21

All: 0.000+/-0.000 χ^2/NDF : 32.9/39

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 1828304.9/15

Left Out: 0.001+/-0.000

χ^2/NDF : 171053.4/2

Right Out: 0.001+/-0.000

χ^2/NDF : 4435351.6/18

Left In: 0.001+/-0.000

χ^2/NDF : 63420.5/1

Left: 0.001+/-0.000

χ^2/NDF : 281455.9/4

Right: 0.001+/-0.000

χ^2/NDF : 6790405.1/34

In: 0.001+/-0.000

χ^2/NDF : 1910904.4/17

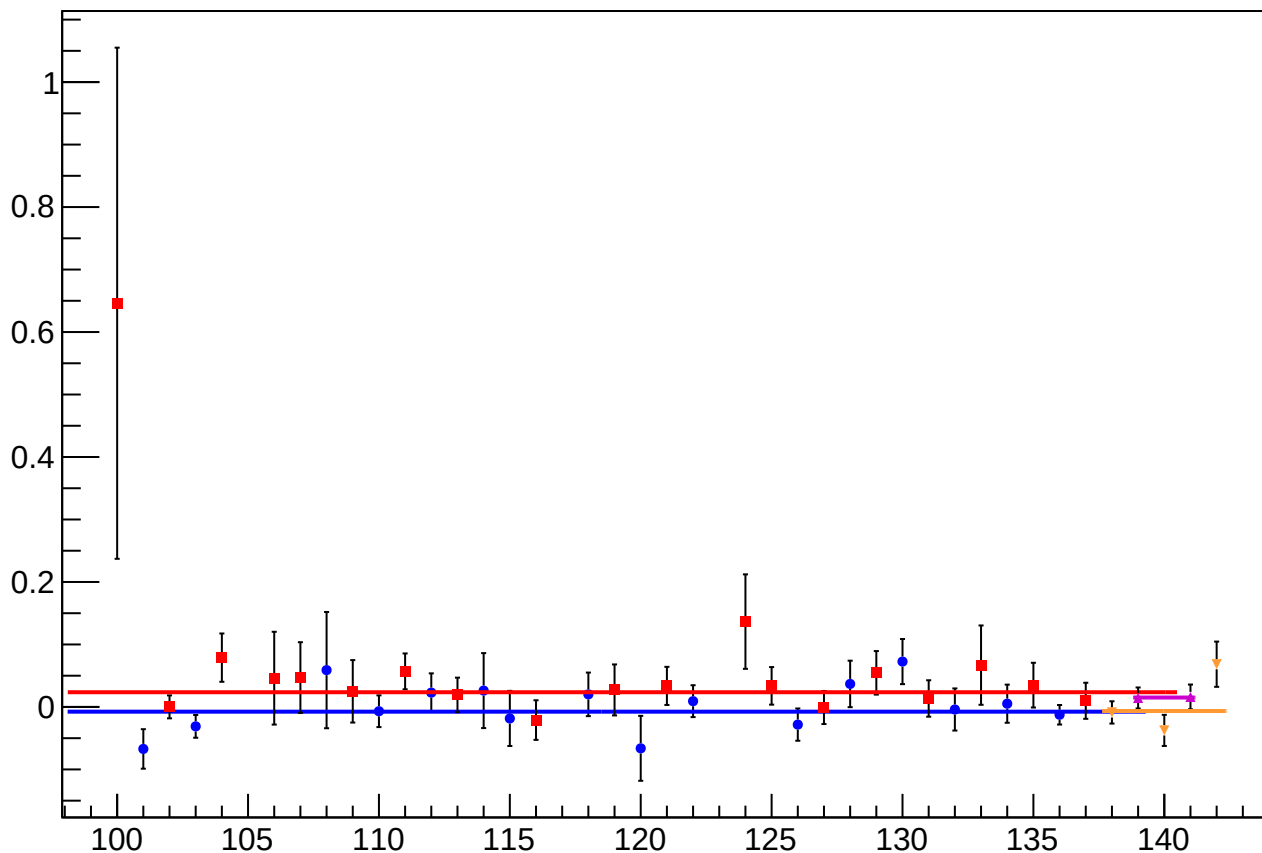
Out: 0.001+/-0.000

χ^2/NDF : 4740757.7/21

All: 0.001+/-0.000

χ^2/NDF : 7206700.9/39

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.007 $\chi^2/\text{NDF}: 16.7/15$

Left Out: -0.007 ± 0.013 $\chi^2/\text{NDF}: 5.8/2$

Right Out: 0.024 ± 0.008 $\chi^2/\text{NDF}: 14.6/18$

Left In: 0.015 ± 0.013 $\chi^2/\text{NDF}: 0.0/1$

Left: 0.005 ± 0.009 $\chi^2/\text{NDF}: 7.2/4$

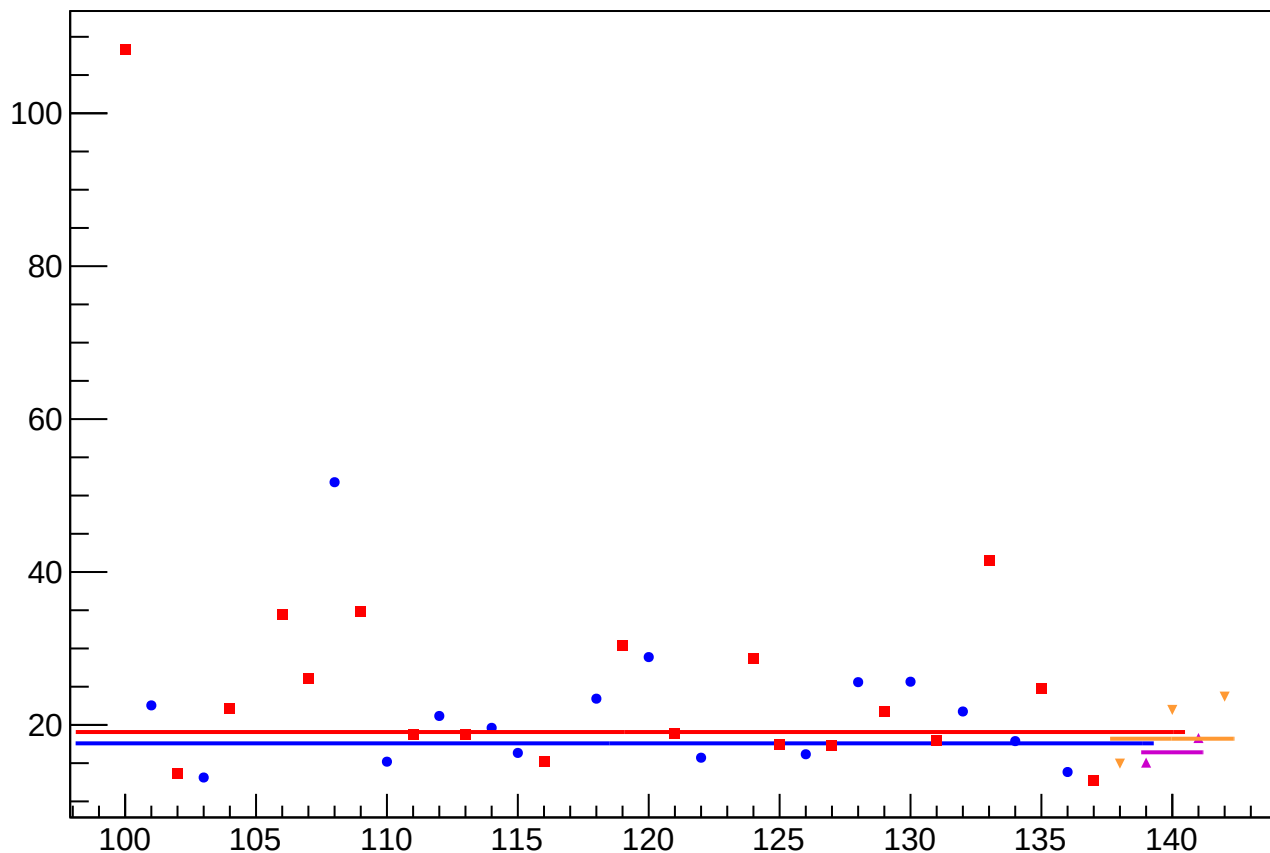
Right: 0.007 ± 0.005 $\chi^2/\text{NDF}: 40.0/34$

In: -0.002 ± 0.006 $\chi^2/\text{NDF}: 19.1/17$

Out: 0.016 ± 0.007 $\chi^2/\text{NDF}: 24.2/21$

All: 0.006 ± 0.005 $\chi^2/\text{NDF}: 47.3/39$

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 17.591 $\pm$ 0.005 χ^2/NDF : 993288.6/15

Left Out: 18.198 $\pm$ 0.010 χ^2/NDF :158767.5/2

Right Out: 19.072 $\pm$ 0.005 χ^2/NDF : 1247904.7/18

Left In: 16.419 $\pm$ 0.009 χ^2/NDF :30695.7/1

Left: 17.265 $\pm$ 0.007 χ^2/NDF : 207784.2/4

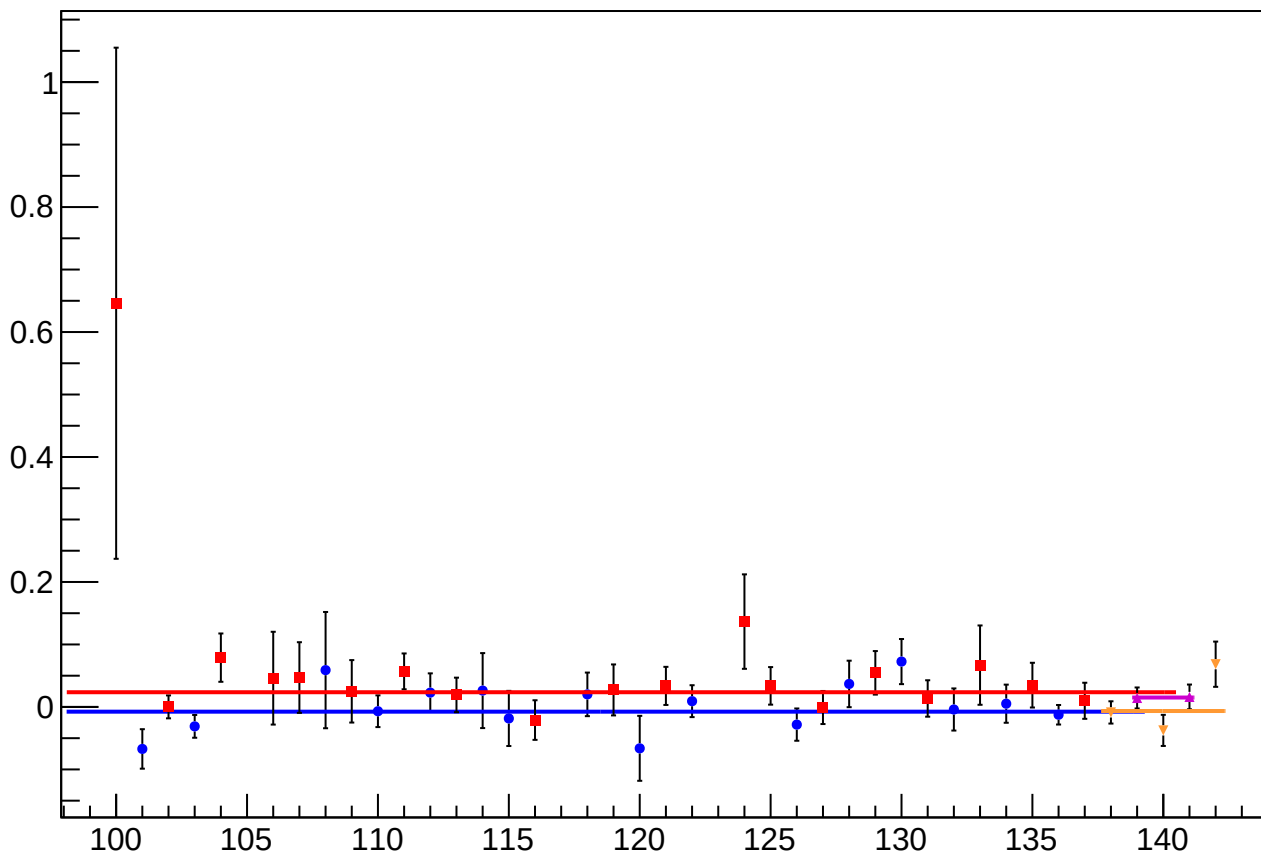
Right: 18.278 $\pm$ 0.004 χ^2/NDF : 2280425.3/34

In: 17.310 $\pm$ 0.004 χ^2/NDF :1036705.3/17

Out: 18.855 $\pm$ 0.005 χ^2/NDF :1413022.9/21

All: 18.031 $\pm$ 0.003 χ^2/NDF : 2506234.7/39

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 $\pm$ 0.007 χ^2 /NDF: 16.7/15

Left Out: -0.007 $\pm$ 0.013 χ^2 /NDF: 5.8/2

Right Out: 0.024 $\pm$ 0.008 χ^2 /NDF: 14.6/18

Left In: 0.015 $\pm$ 0.013 χ^2 /NDF: 0.0/1

Left: 0.005 $\pm$ 0.009 χ^2 /NDF: 7.2/4

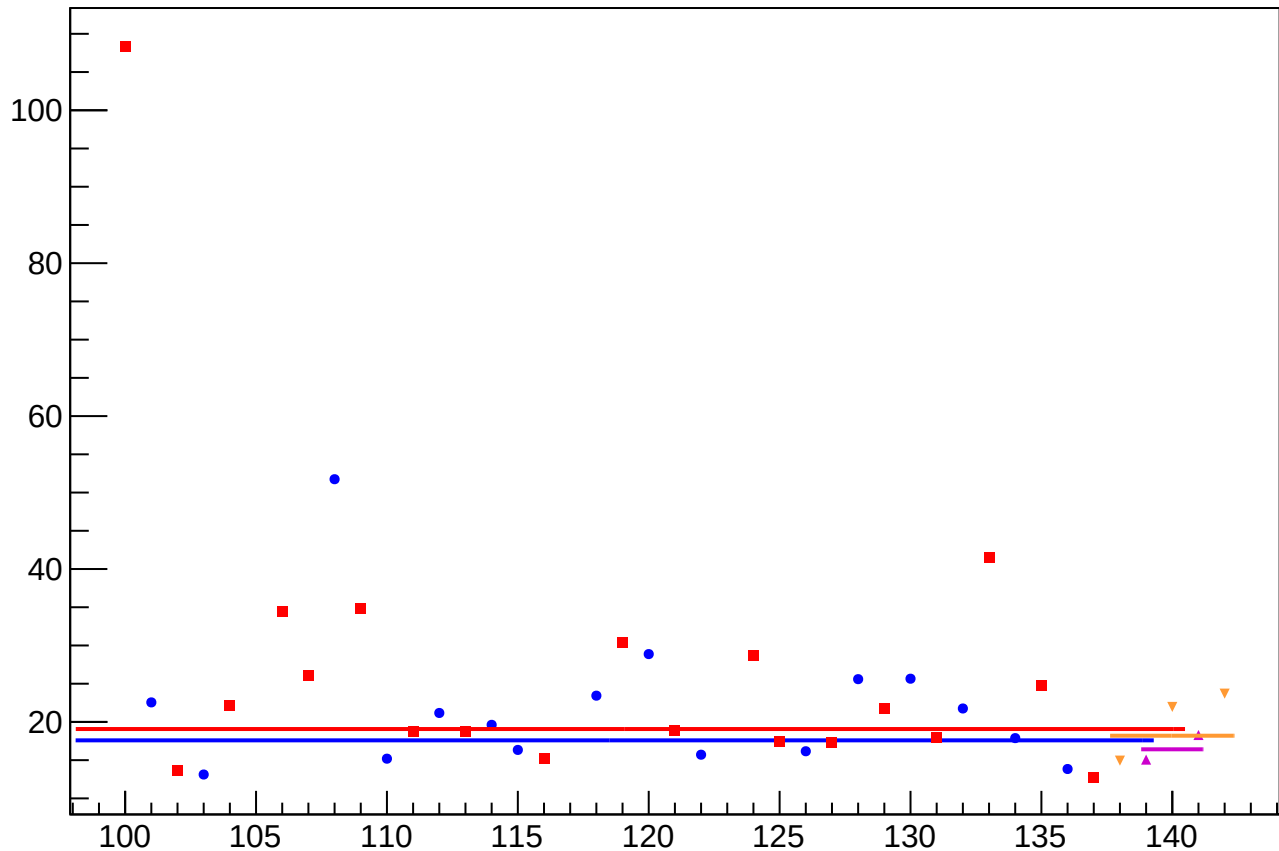
Right: 0.007 $\pm$ 0.005 χ^2 /NDF: 40.0/34

In: -0.002 $\pm$ 0.006 χ^2 /NDF: 19.1/17

Out: 0.016 $\pm$ 0.007 χ^2 /NDF: 24.2/21

All: 0.006 $\pm$ 0.005 χ^2 /NDF: 47.3/39

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 17.591+/-0.005 χ^2/NDF : 993288.6/15

Left Out: 18.198+/-0.010 χ^2/NDF : 158767.5/2

Right Out: 19.072+/-0.005 χ^2/NDF : 1247904.7/18

Left In: 16.419+/-0.009 χ^2/NDF : 30695.7/1

Left: 17.265+/-0.007 χ^2/NDF : 207784.2/4

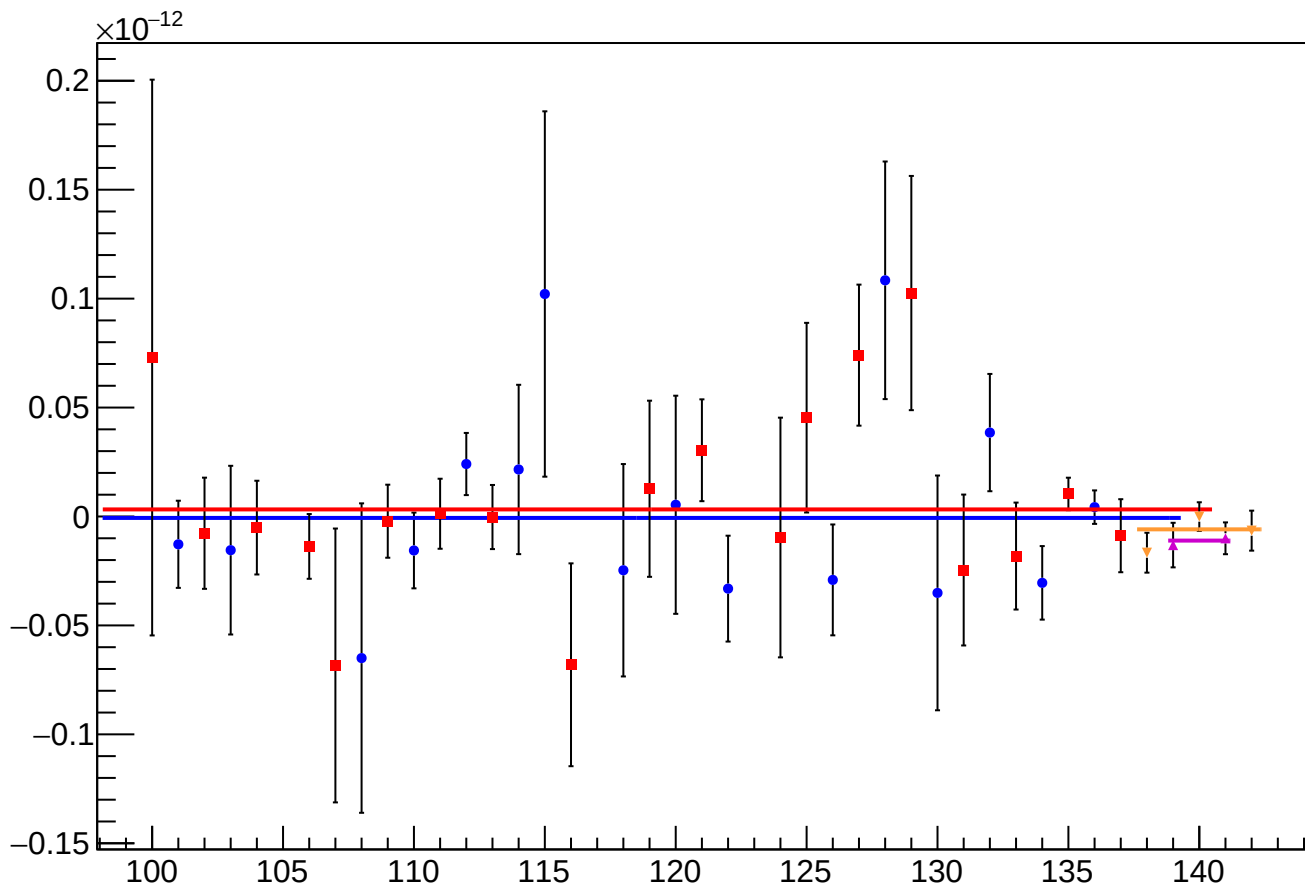
Right: 18.278+/-0.004 χ^2/NDF : 2280425.3/34

In: 17.310+/-0.004 χ^2/NDF : 1036705.3/17

Out: 18.855+/-0.005 χ^2/NDF : 1413022.9/21

All: 18.031+/-0.003 χ^2/NDF : 2506234.7/39

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 20.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 2.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 19.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.1/1

Left: -0.000+/-0.000 χ^2/NDF : 2.7/4

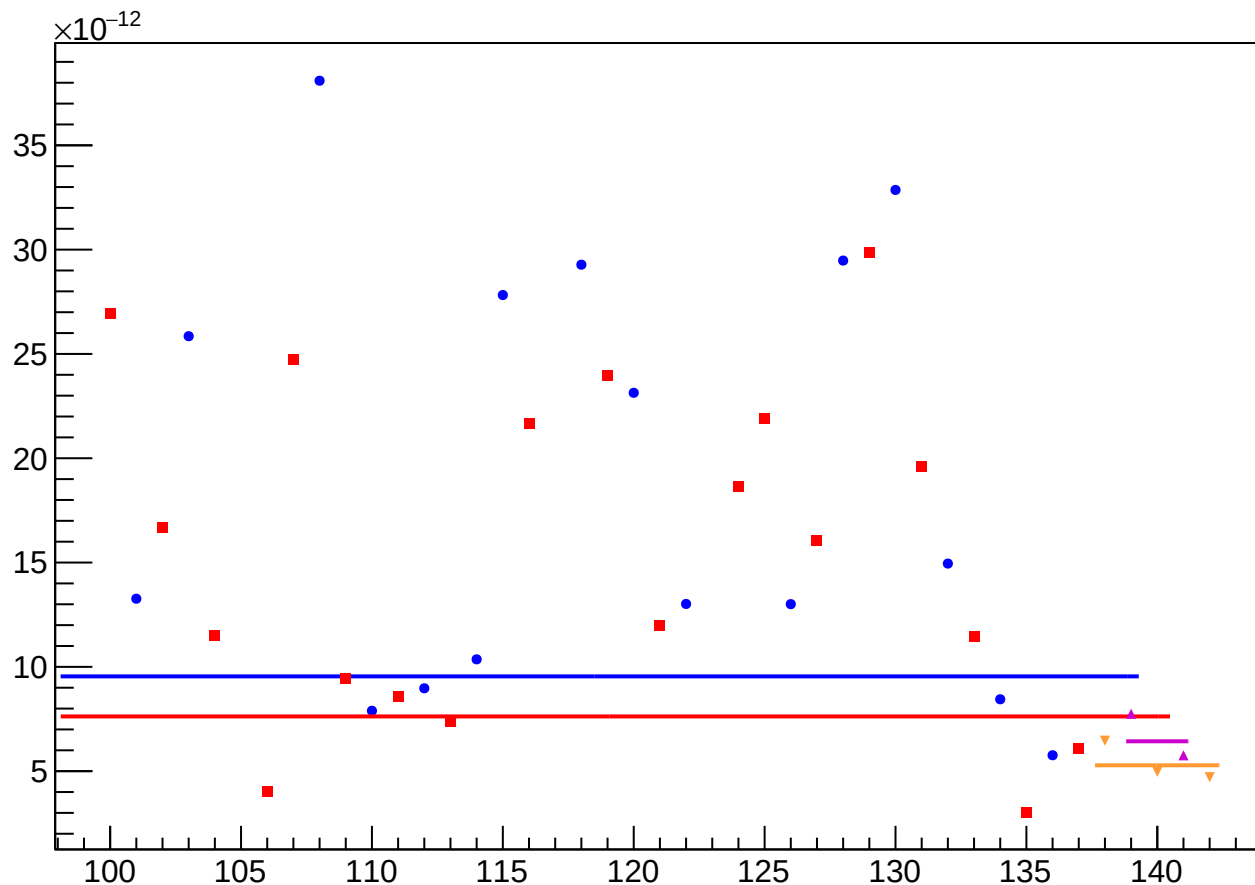
Right: 0.000+/-0.000 χ^2/NDF : 39.8/34

In: -0.000+/-0.000 χ^2/NDF : 22.1/17

Out: -0.000+/-0.000 χ^2/NDF : 23.4/21

All: -0.000+/-0.000 χ^2/NDF : 46.1/39

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2632531.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 45439.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3086000.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 50191.3/1

Left: 0.000+/-0.000 χ^2/NDF : 142294.5/4

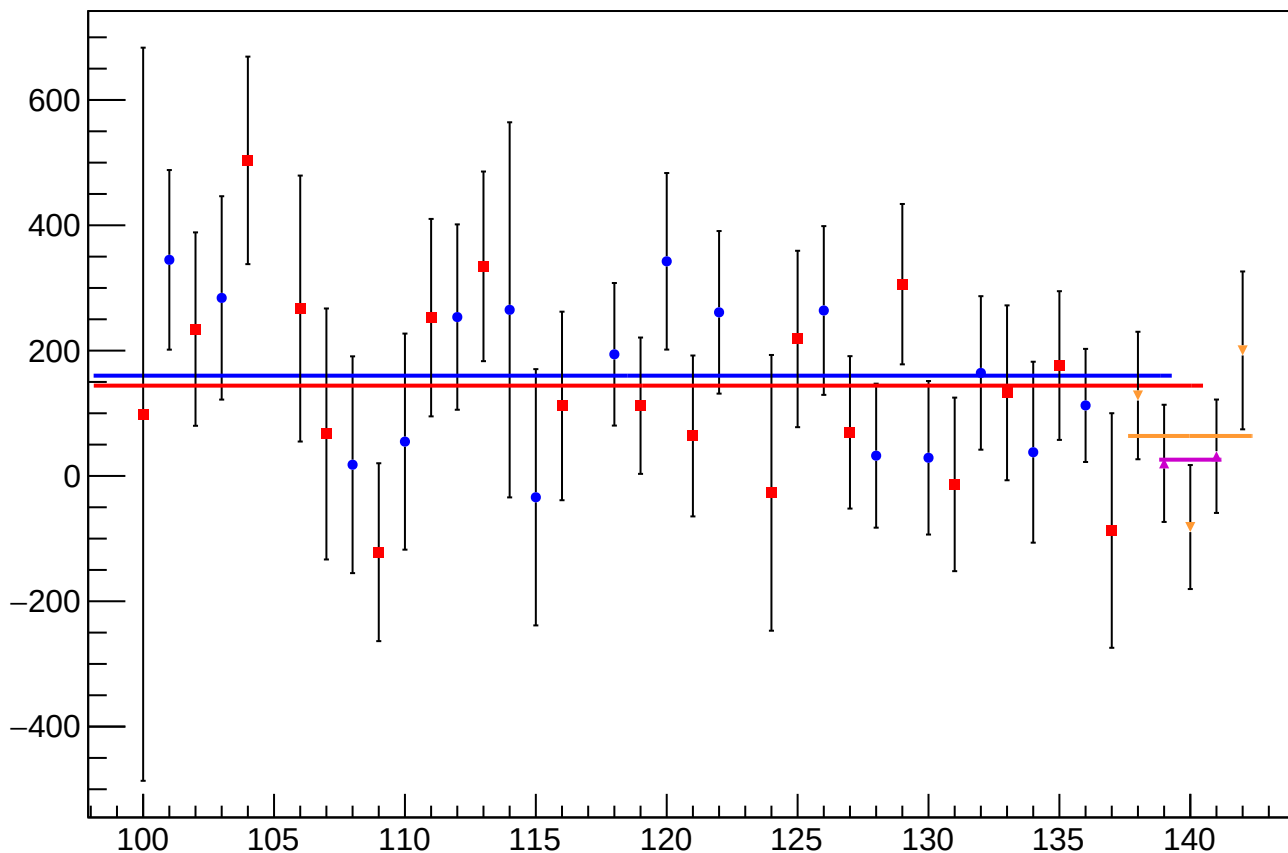
Right: 0.000+/-0.000 χ^2/NDF : 5879584.6/34

In: 0.000+/-0.000 χ^2/NDF : 3000376.8/17

Out: 0.000+/-0.000 χ^2/NDF : 3395986.1/21

All: 0.000+/-0.000 χ^2/NDF : 6638314.4/39

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 160.024 $\pm$ 34.170 χ^2 /NDF: 11.1/15

Left Out: 63.800 $\pm$ 61.806 χ^2 /NDF:3.7/2

Right Out: 144.117 $\pm$ 34.213 χ^2 /NDF: 17.4/18

Left In: 25.965 $\pm$ 65.026 χ^2 /NDF:0.0/1

Left: 45.842 $\pm$ 44.798 χ^2 /NDF: 3.9/4

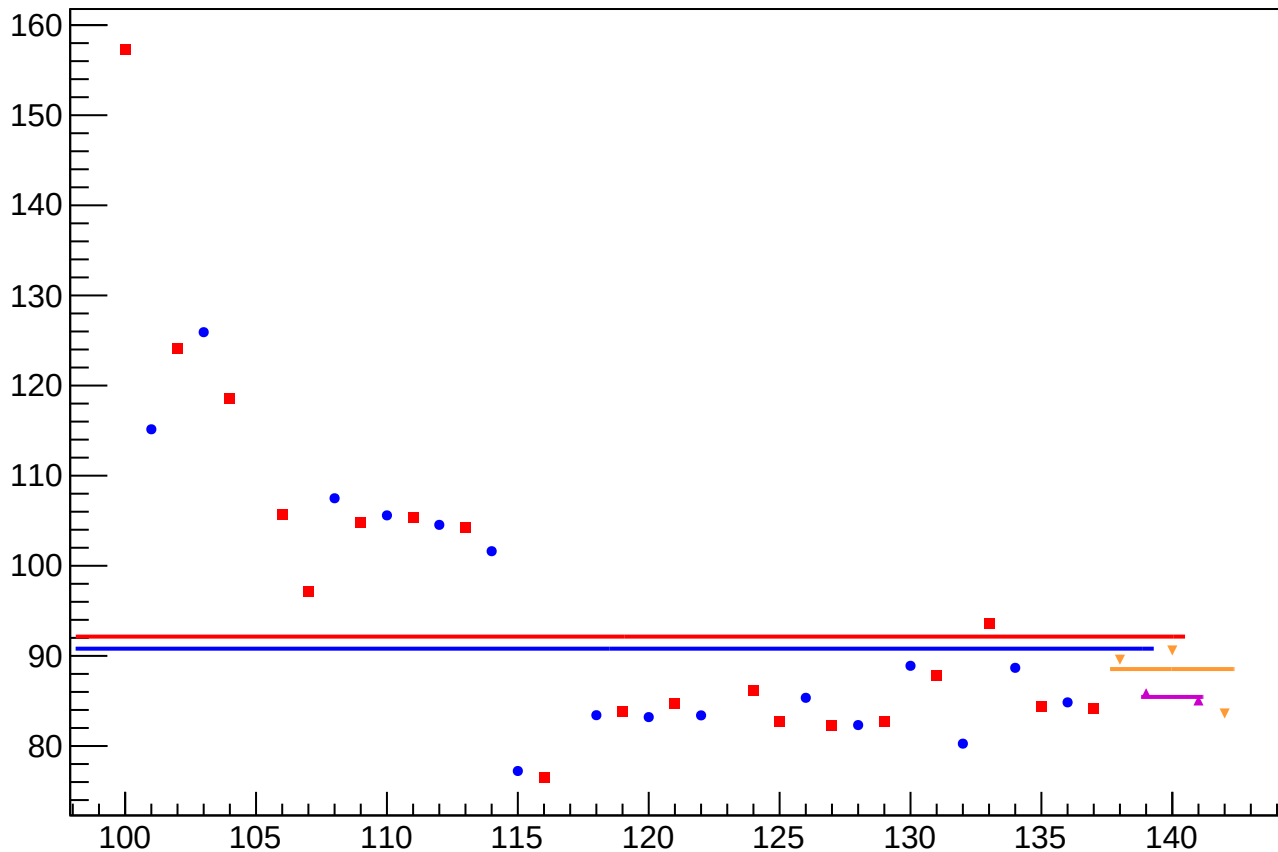
Right: 152.081 $\pm$ 24.177 χ^2 /NDF: 28.6/34

In: 131.016 $\pm$ 30.248 χ^2 /NDF:14.4/17

Out: 125.278 $\pm$ 29.933 χ^2 /NDF:22.4/21

All: 128.117 $\pm$ 21.276 χ^2 /NDF: 36.8/39

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 90.802 $\pm$ 0.024 χ^2 /NDF: 272755.2/15

Left Out: 88.539 $\pm$ 0.044 χ^2 /NDF: 4140.6/2

Right Out: 92.141 $\pm$ 0.024 χ^2 /NDF: 302032.4/18

Left In: 85.446 $\pm$ 0.046 χ^2 /NDF: 76.0/1

Left: 87.071 $\pm$ 0.032 χ^2 /NDF: 6595.1/4

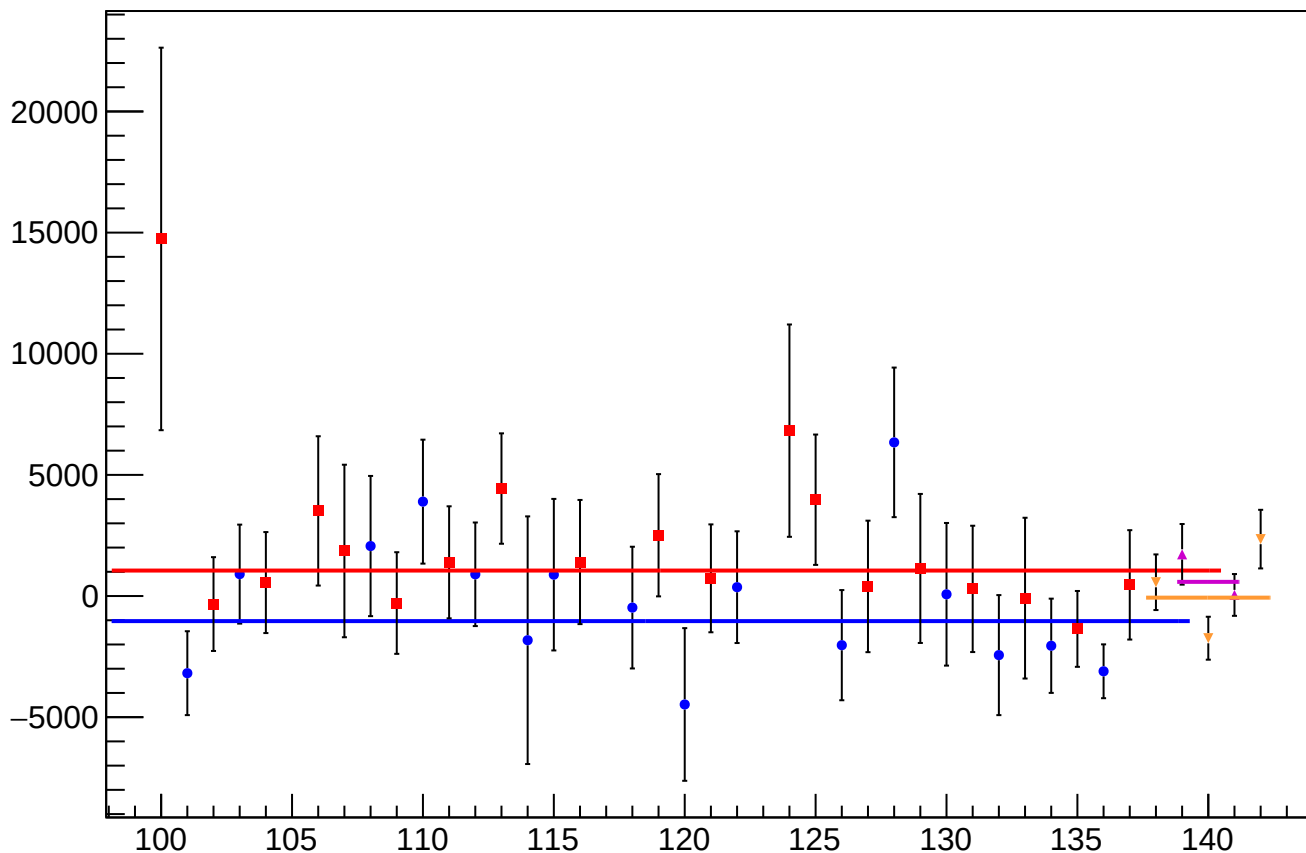
Right: 91.471 $\pm$ 0.017 χ^2 /NDF: 576322.1/34

In: 89.643 $\pm$ 0.021 χ^2 /NDF: 283465.1/17

Out: 91.296 $\pm$ 0.021 χ^2 /NDF: 311372.3/21

All: 90.478 $\pm$ 0.015 χ^2 /NDF: 597857.1/39

asym_sam_24_68_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -1035.032 $\pm$ 550.207 χ^2 /NDF: 20.2/15

Left Out: -66.718 $\pm$ 606.825 χ^2 /NDF: 7.9/2

Right Out: 1051.517 $\pm$ 568.935 χ^2 /NDF: 12.9/18

Left In: 585.051 $\pm$ 710.093 χ^2 /NDF: 1.2/1

Left: 208.369 $\pm$ 461.322 χ^2 /NDF: 9.6/4

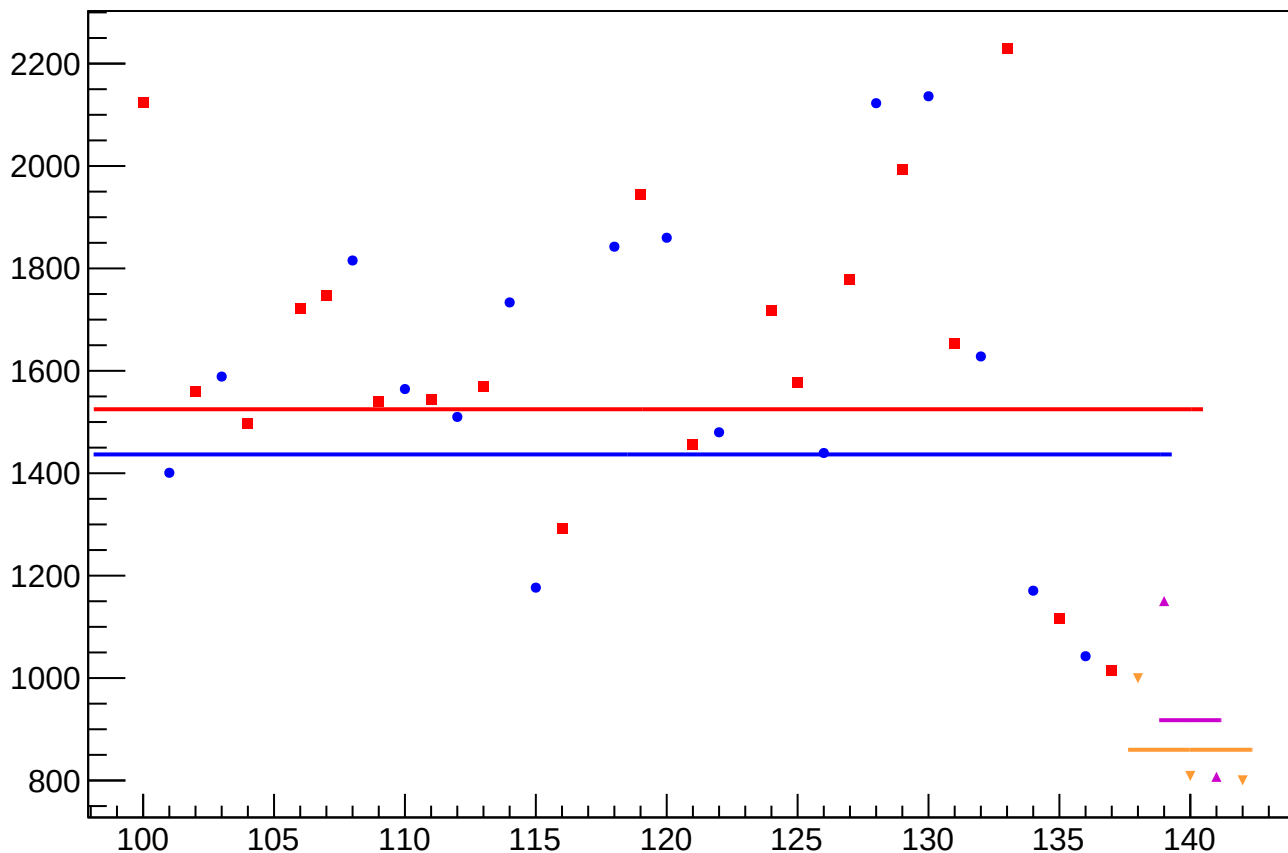
Right: -26.665 $\pm$ 395.510 χ^2 /NDF: 40.1/34

In: -427.265 $\pm$ 434.926 χ^2 /NDF: 24.7/17

Out: 528.398 $\pm$ 415.047 χ^2 /NDF: 22.6/21

All: 72.906 $\pm$ 300.264 χ^2 /NDF: 49.8/39

asym_sam_24_68_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1436.734+/-0.389 χ^2/NDF : 675672.3/15

Left Out: 859.963+/-0.429 χ^2/NDF : 41159.9/2

Right Out: 1524.955+/-0.402 χ^2/NDF : 504563.9/18

Left In: 917.725+/-0.502 χ^2/NDF : 102040.1/1

Left: 884.342+/-0.326 χ^2/NDF : 150848.3/4

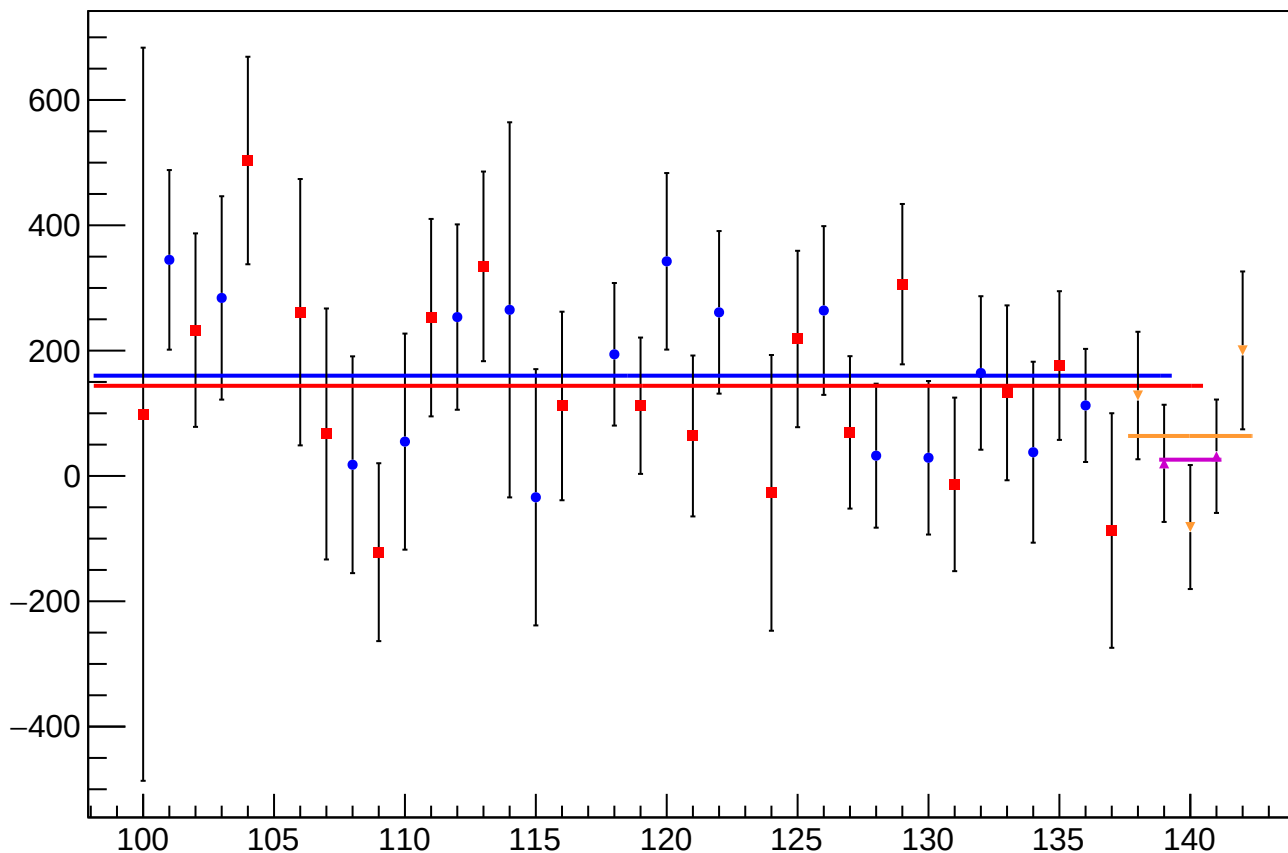
Right: 1479.369+/-0.280 χ^2/NDF : 1205085.6/34

In: 1242.030+/-0.308 χ^2/NDF : 1445330.2/17

Out: 1213.867+/-0.293 χ^2/NDF : 1823943.6/21

All: 1227.290+/-0.212 χ^2/NDF : 3273662.9/39

cor_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 160.020 $\pm$ 34.170 χ^2 /NDF: 11.1/15

Left Out: 63.810 $\pm$ 61.806 χ^2 /NDF:3.7/2

Right Out: 143.862 $\pm$ 34.216 χ^2 /NDF: 17.3/18

Left In: 25.978 $\pm$ 65.026 χ^2 /NDF:0.0/1

Left: 45.853 $\pm$ 44.798 χ^2 /NDF: 3.9/4

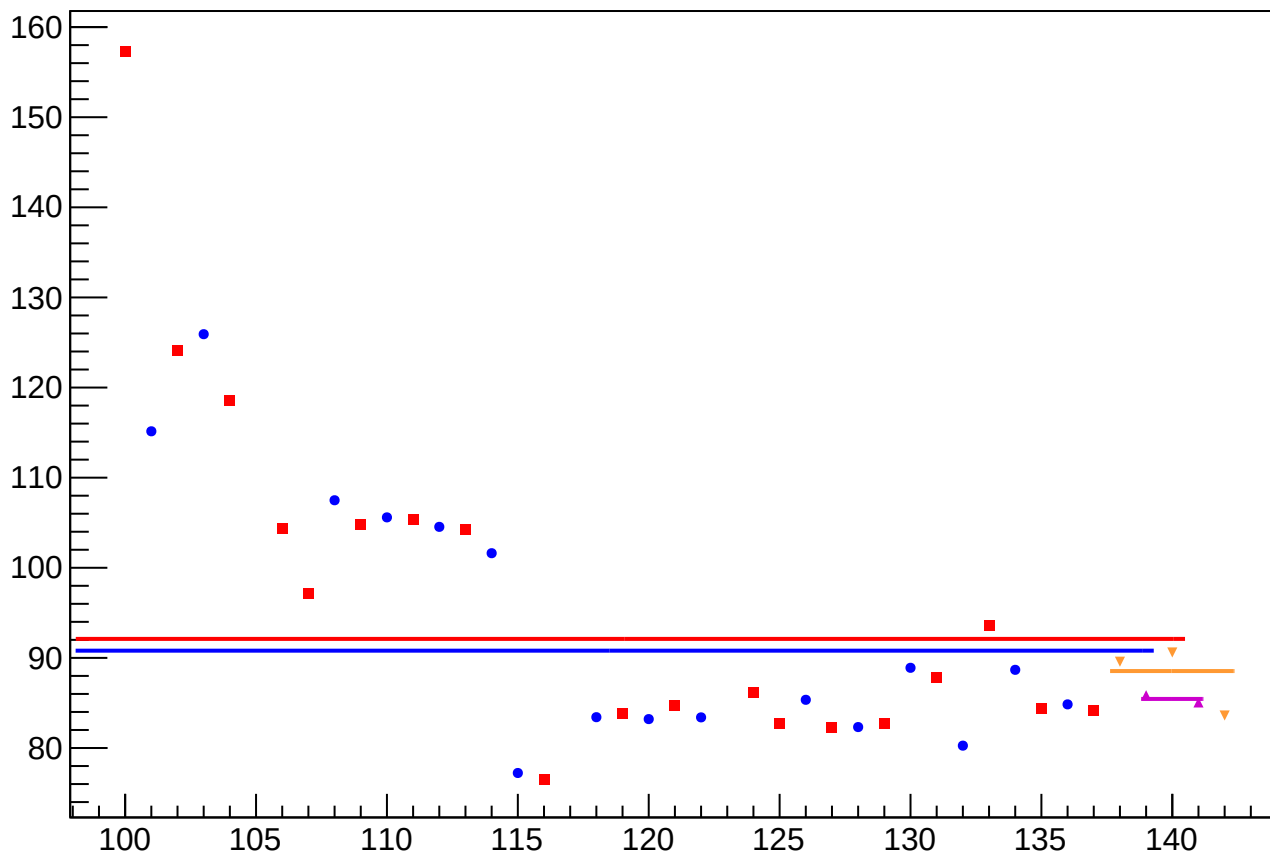
Right: 151.952 $\pm$ 24.178 χ^2 /NDF: 28.5/34

In: 131.016 $\pm$ 30.248 χ^2 /NDF:14.4/17

Out: 125.083 $\pm$ 29.935 χ^2 /NDF:22.4/21

All: 128.019 $\pm$ 21.277 χ^2 /NDF: 36.8/39

cor_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 90.802 $\pm$ 0.024 χ^2/NDF : 272757.0/15

Left Out: 88.539 $\pm$ 0.044 χ^2/NDF : 4140.6/2

Right Out: 92.108 $\pm$ 0.024 χ^2/NDF : 300768.0/18

Left In: 85.446 $\pm$ 0.046 χ^2/NDF : 76.0/1

Left: 87.071 $\pm$ 0.032 χ^2/NDF : 6595.1/4

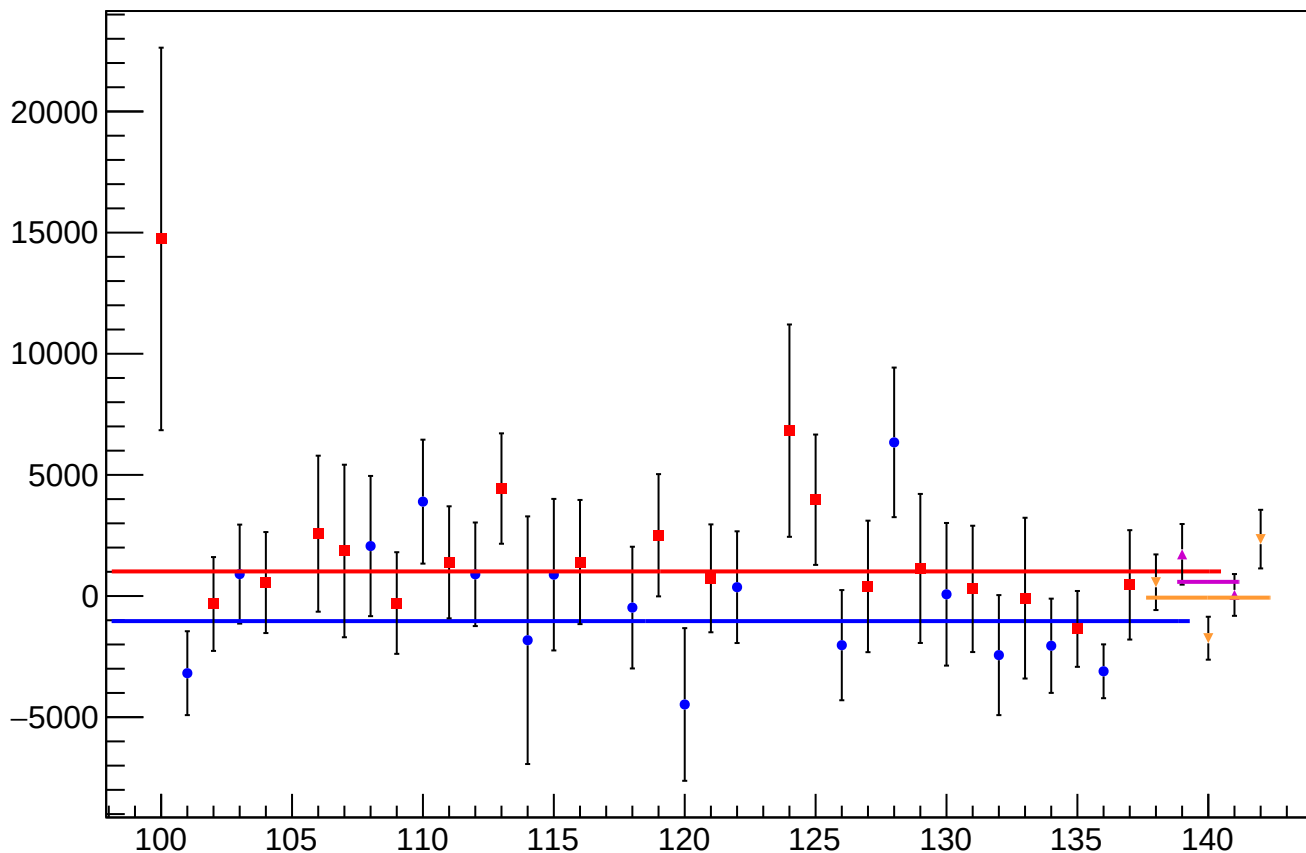
Right: 91.454 $\pm$ 0.017 χ^2/NDF : 574984.5/34

In: 89.643 $\pm$ 0.021 χ^2/NDF : 283467.0/17

Out: 91.271 $\pm$ 0.021 χ^2/NDF : 310012.7/21

All: 90.465 $\pm$ 0.015 χ^2/NDF : 596407.1/39

asym_sam_24_68_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -1035.009+/-550.208 χ^2/NDF : 20.2/15

Left Out: -66.693+/-606.825 χ^2/NDF : 7.9/2

Right Out: 1015.387+/-569.773 χ^2/NDF : 12.5/18

Left In: 585.073+/-710.093 χ^2/NDF : 1.2/1

Left: 208.392+/-461.321 χ^2/NDF : 9.6/4

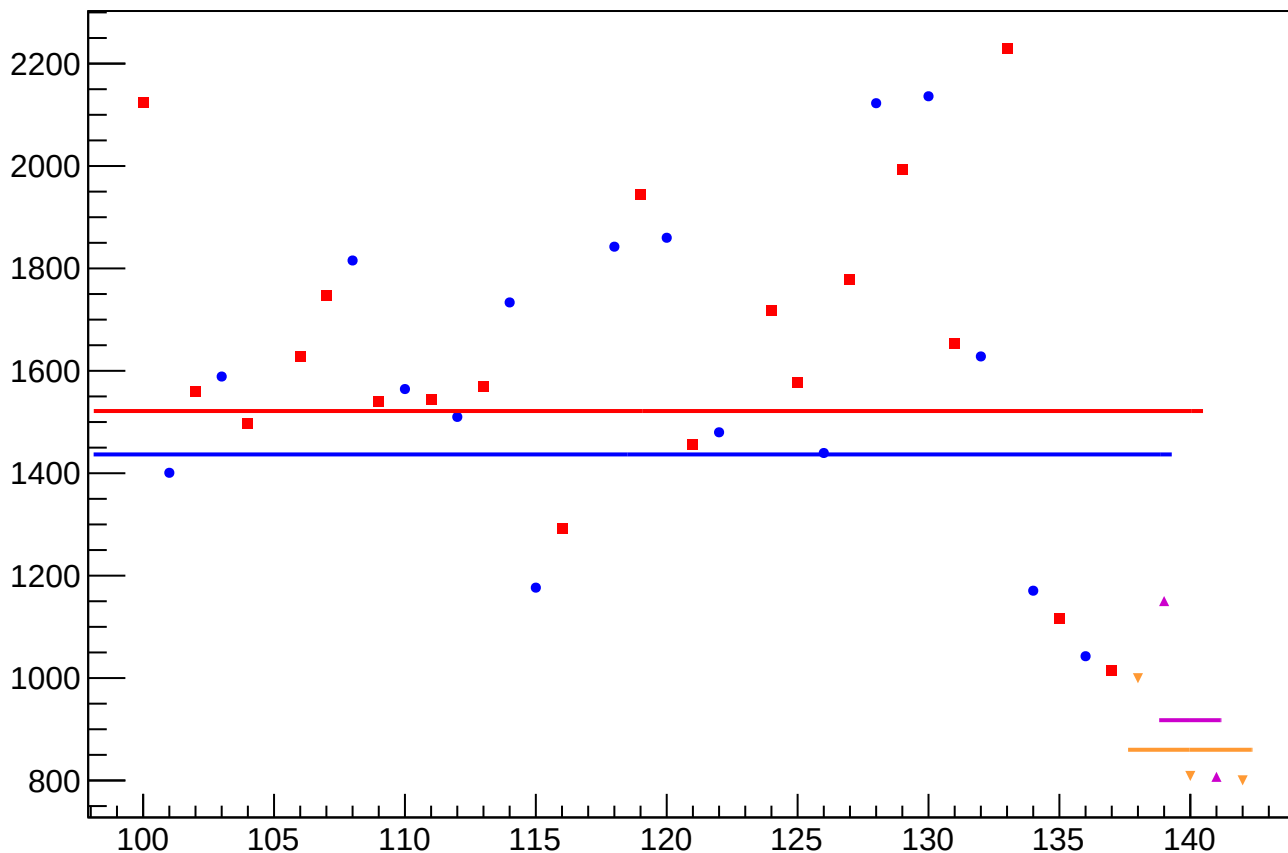
Right: -45.617+/-395.792 χ^2/NDF : 39.4/34

In: -427.240+/-434.927 χ^2/NDF : 24.7/17

Out: 508.388+/-415.372 χ^2/NDF : 22.0/21

All: 62.080+/-300.387 χ^2/NDF : 49.2/39

asym_sam_24_68_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1436.738 $\pm$ 0.389 χ^2 /NDF: 675680.8/15

Left Out: 859.962 $\pm$ 0.429 χ^2 /NDF: 41160.4/2

Right Out: 1521.496 $\pm$ 0.403 χ^2 /NDF: 498363.4/18

Left In: 917.725 $\pm$ 0.502 χ^2 /NDF: 102039.6/1

Left: 884.342 $\pm$ 0.326 χ^2 /NDF: 150848.6/4

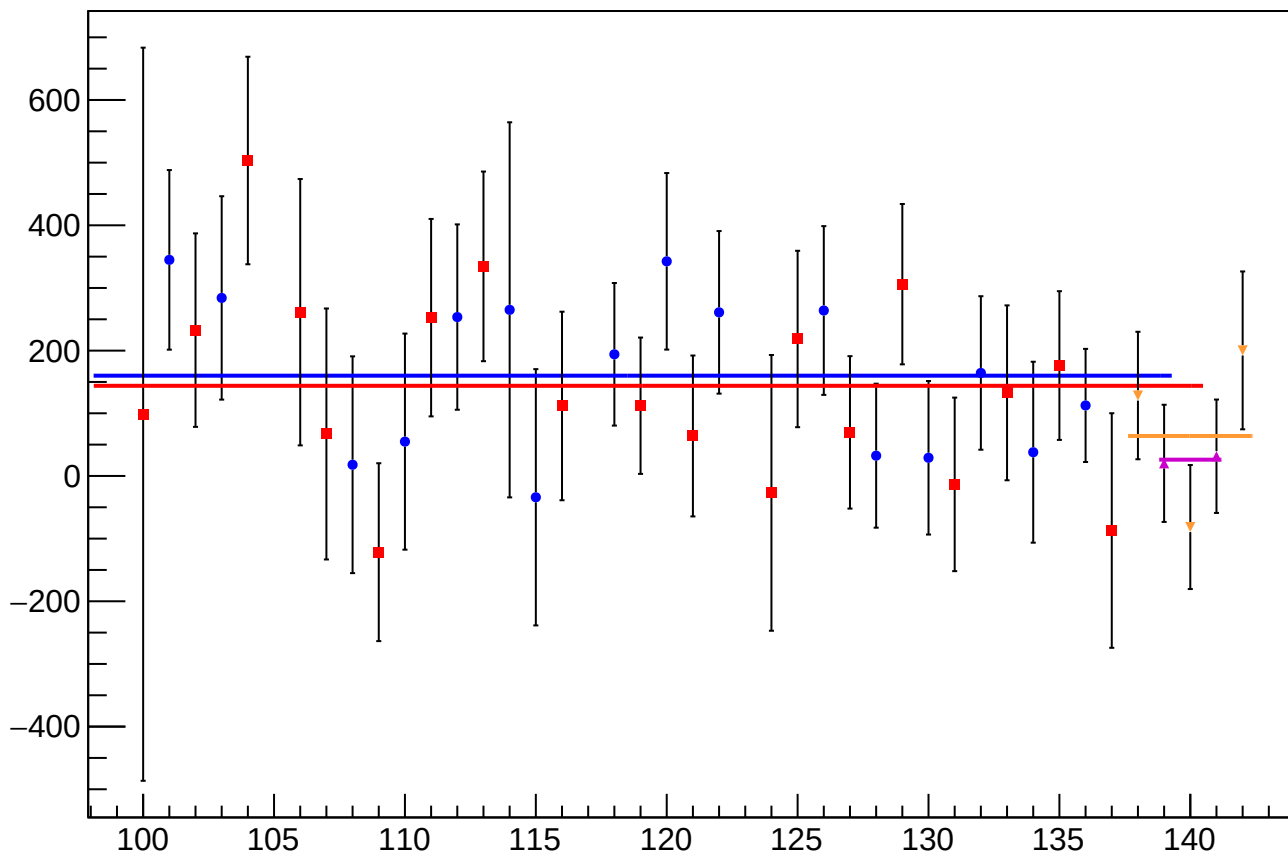
Right: 1477.637 $\pm$ 0.280 χ^2 /NDF: 1196946.2/34

In: 1242.032 $\pm$ 0.308 χ^2 /NDF: 1445345.1/17

Out: 1211.541 $\pm$ 0.294 χ^2 /NDF: 1802740.7/21

All: 1226.085 $\pm$ 0.212 χ^2 /NDF: 3253226.5/39

eigen_cor_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 160.020 $\pm$ 34.170 χ^2 /NDF: 11.1/15

Left Out: 63.810 $\pm$ 61.806 χ^2 /NDF:3.7/2

Right Out: 143.862 $\pm$ 34.216 χ^2 /NDF: 17.3/18

Left In: 25.978 $\pm$ 65.026 χ^2 /NDF:0.0/1

Left: 45.853 $\pm$ 44.798 χ^2 /NDF: 3.9/4

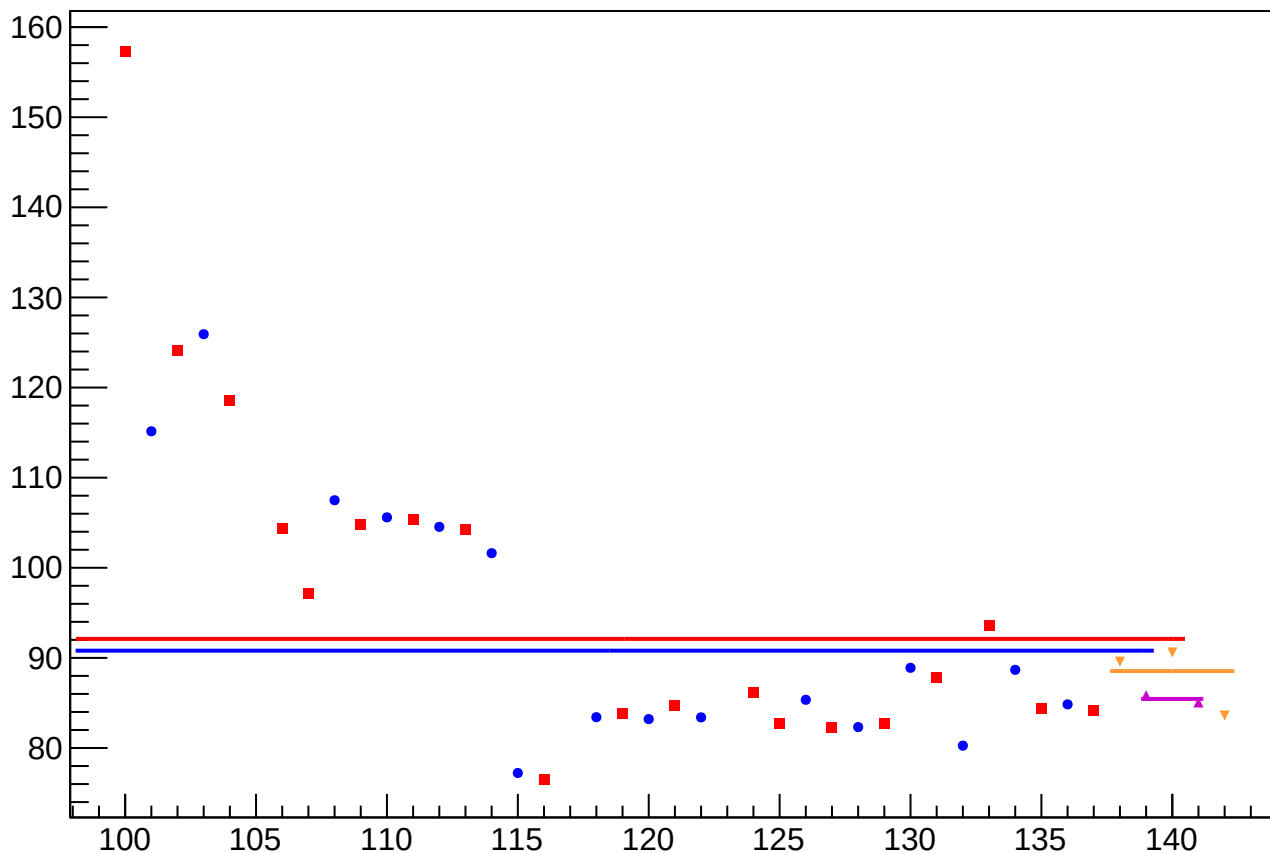
Right: 151.952 $\pm$ 24.178 χ^2 /NDF: 28.5/34

In: 131.016 $\pm$ 30.248 χ^2 /NDF:14.4/17

Out: 125.083 $\pm$ 29.935 χ^2 /NDF:22.4/21

All: 128.019 $\pm$ 21.277 χ^2 /NDF: 36.8/39

eigen_cor_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 90.802 $\pm$ 0.024 χ^2 /NDF: 272757.0/15

Left Out: 88.539 $\pm$ 0.044 χ^2 /NDF: 4140.6/2

Right Out: 92.108 $\pm$ 0.024 χ^2 /NDF: 300768.0/18

Left In: 85.446 $\pm$ 0.046 χ^2 /NDF: 76.0/1

Left: 87.071 $\pm$ 0.032 χ^2 /NDF: 6595.1/4

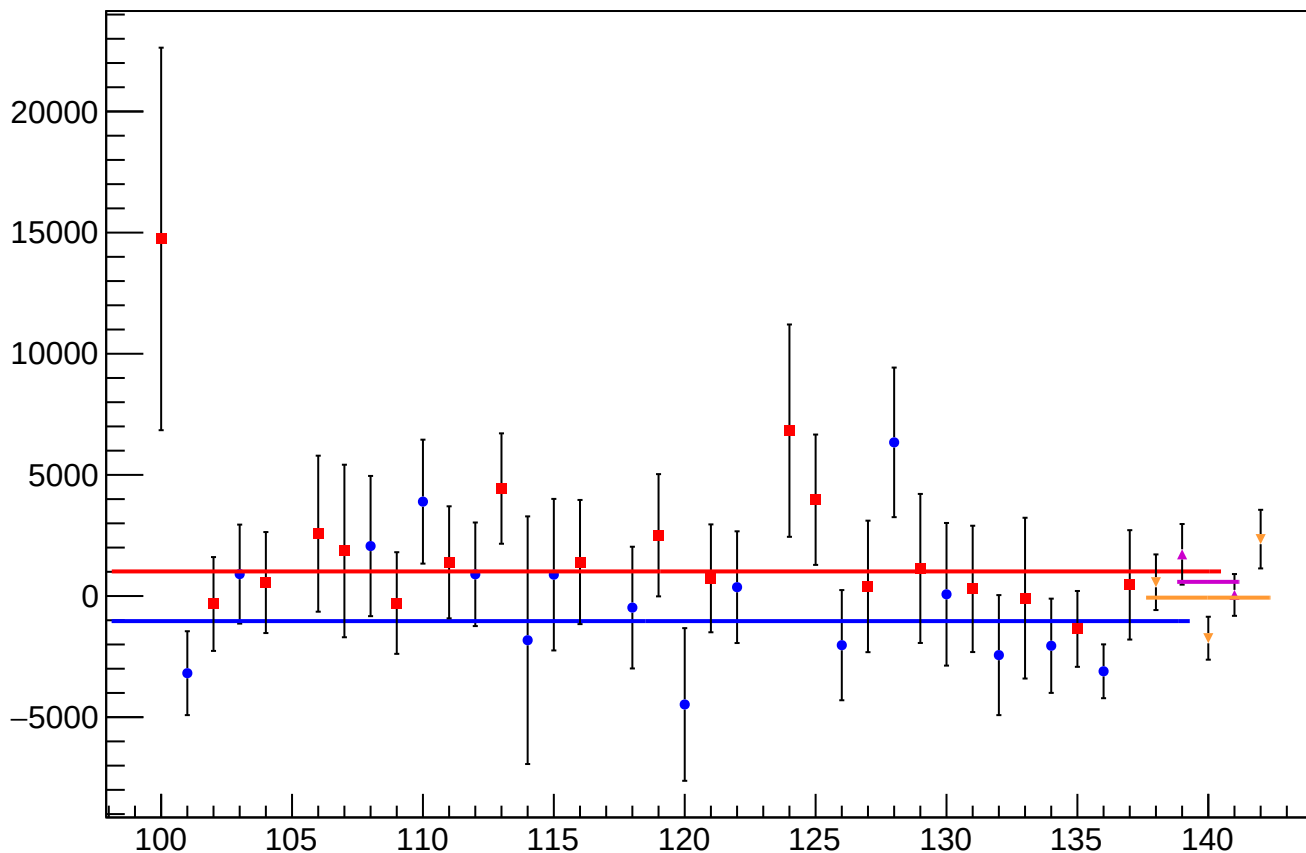
Right: 91.454 $\pm$ 0.017 χ^2 /NDF: 574984.5/34

In: 89.643 $\pm$ 0.021 χ^2 /NDF: 283467.0/17

Out: 91.271 $\pm$ 0.021 χ^2 /NDF: 310012.7/21

All: 90.465 $\pm$ 0.015 χ^2 /NDF: 596407.1/39

asym_sam_24_68_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1035.009 $\pm$ 550.208 χ^2 /NDF: 20.2/15

Left Out: -66.693 $\pm$ 606.825 χ^2 /NDF: 7.9/2

Right Out: 1015.387 $\pm$ 569.773 χ^2 /NDF: 12.5/18

Left In: 585.073 $\pm$ 710.093 χ^2 /NDF: 1.2/1

Left: 208.392 $\pm$ 461.321 χ^2 /NDF: 9.6/4

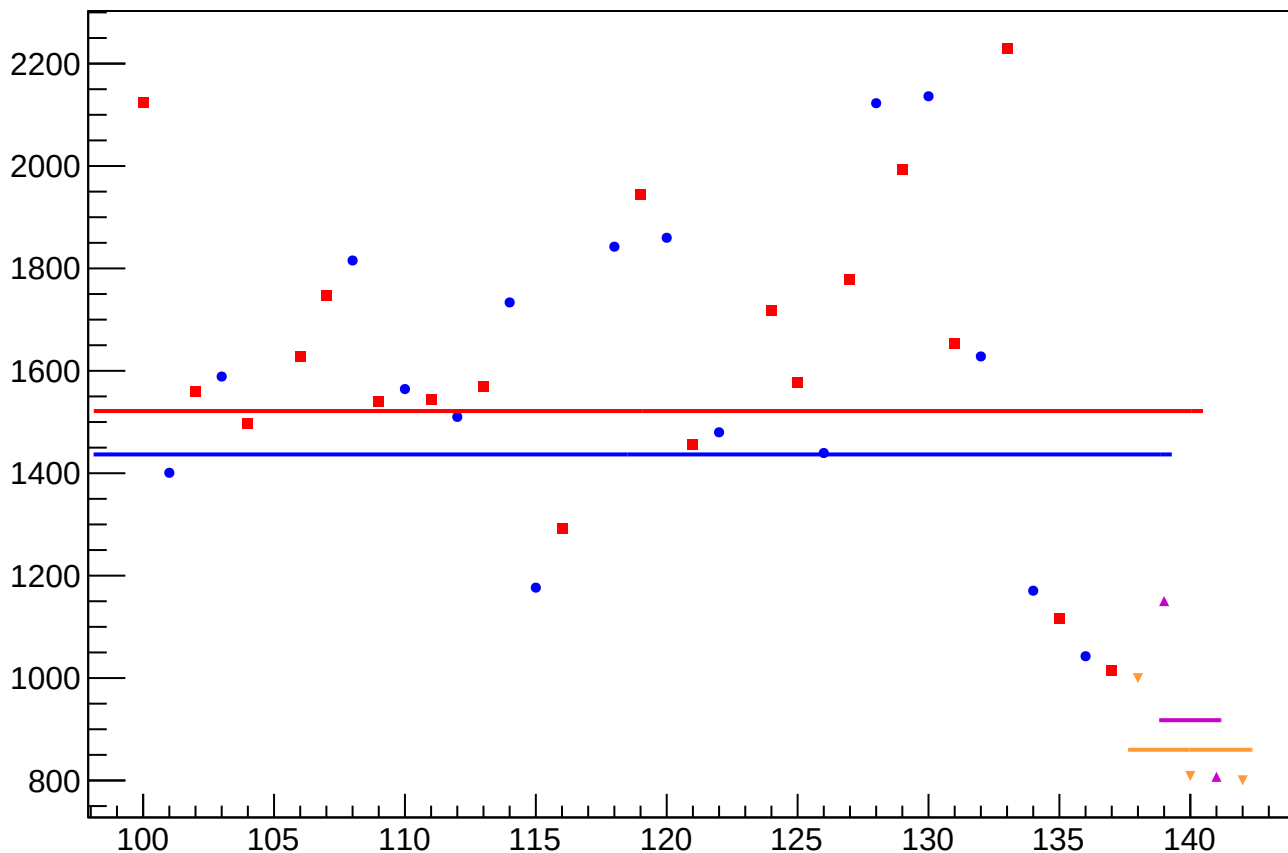
Right: -45.617 $\pm$ 395.792 χ^2 /NDF: 39.4/34

In: -427.240 $\pm$ 434.927 χ^2 /NDF: 24.7/17

Out: 508.388 $\pm$ 415.372 χ^2 /NDF: 22.0/21

All: 62.080 $\pm$ 300.387 χ^2 /NDF: 49.2/39

asym_sam_24_68_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1436.738 $\pm$ 0.389 χ^2 /NDF: 675680.8/15

Left Out: 859.962 $\pm$ 0.429 χ^2 /NDF: 41160.4/2

Right Out: 1521.496 $\pm$ 0.403 χ^2 /NDF: 498363.4/18

Left In: 917.725 $\pm$ 0.502 χ^2 /NDF: 102039.6/1

Left: 884.342 $\pm$ 0.326 χ^2 /NDF: 150848.6/4

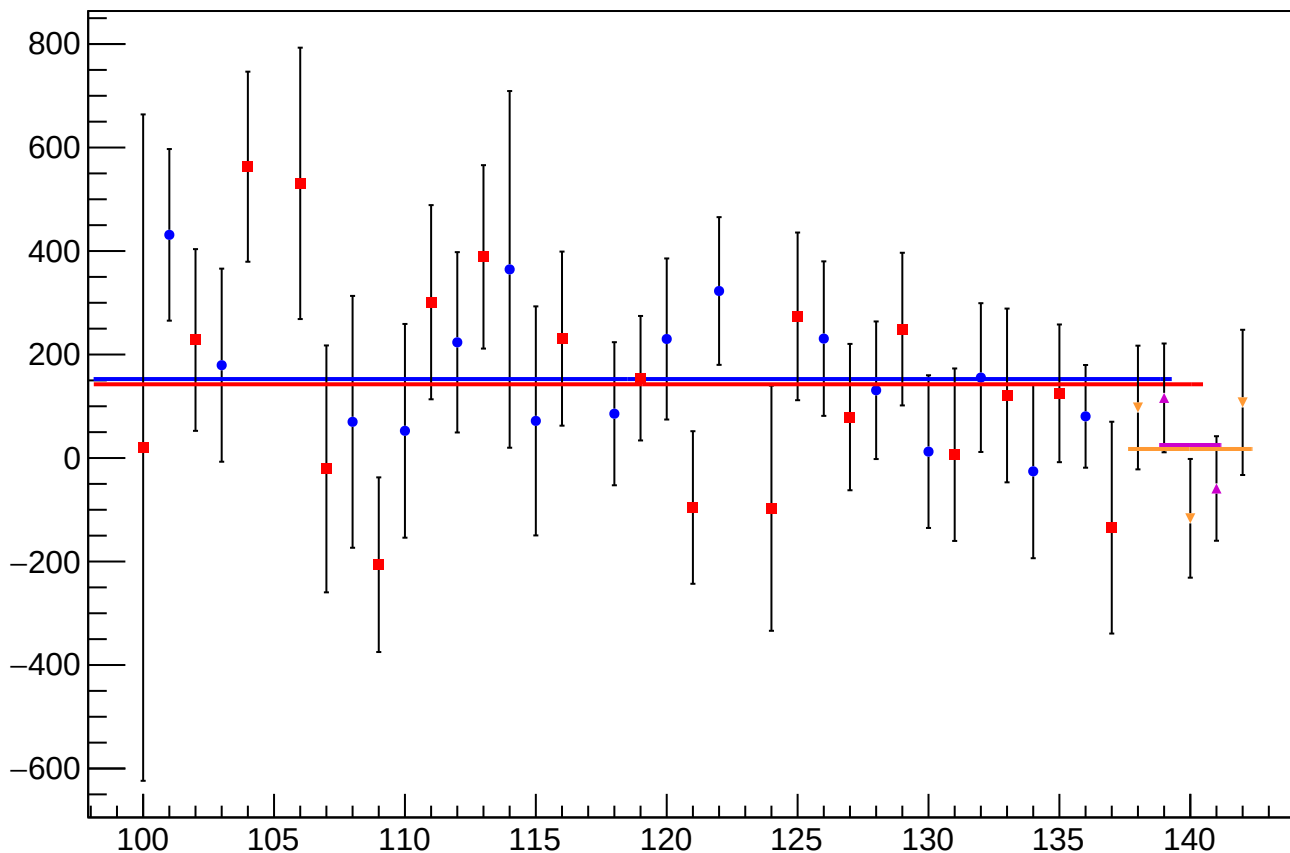
Right: 1477.637 $\pm$ 0.280 χ^2 /NDF: 1196946.2/34

In: 1242.032 $\pm$ 0.308 χ^2 /NDF: 1445345.1/17

Out: 1211.541 $\pm$ 0.294 χ^2 /NDF: 1802740.7/21

All: 1226.085 $\pm$ 0.212 χ^2 /NDF: 3253226.5/39

dit_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 152.626 $\pm$ 39.446 χ^2 /NDF: 8.6/15

Left Out: 17.470 $\pm$ 71.289 χ^2 /NDF:2.2/2

Right Out: 142.496 $\pm$ 39.340 χ^2 /NDF: 22.9/18

Left In: 25.168 $\pm$ 72.837 χ^2 /NDF:1.4/1

Left: 21.237 $\pm$ 50.947 χ^2 /NDF: 3.7/4

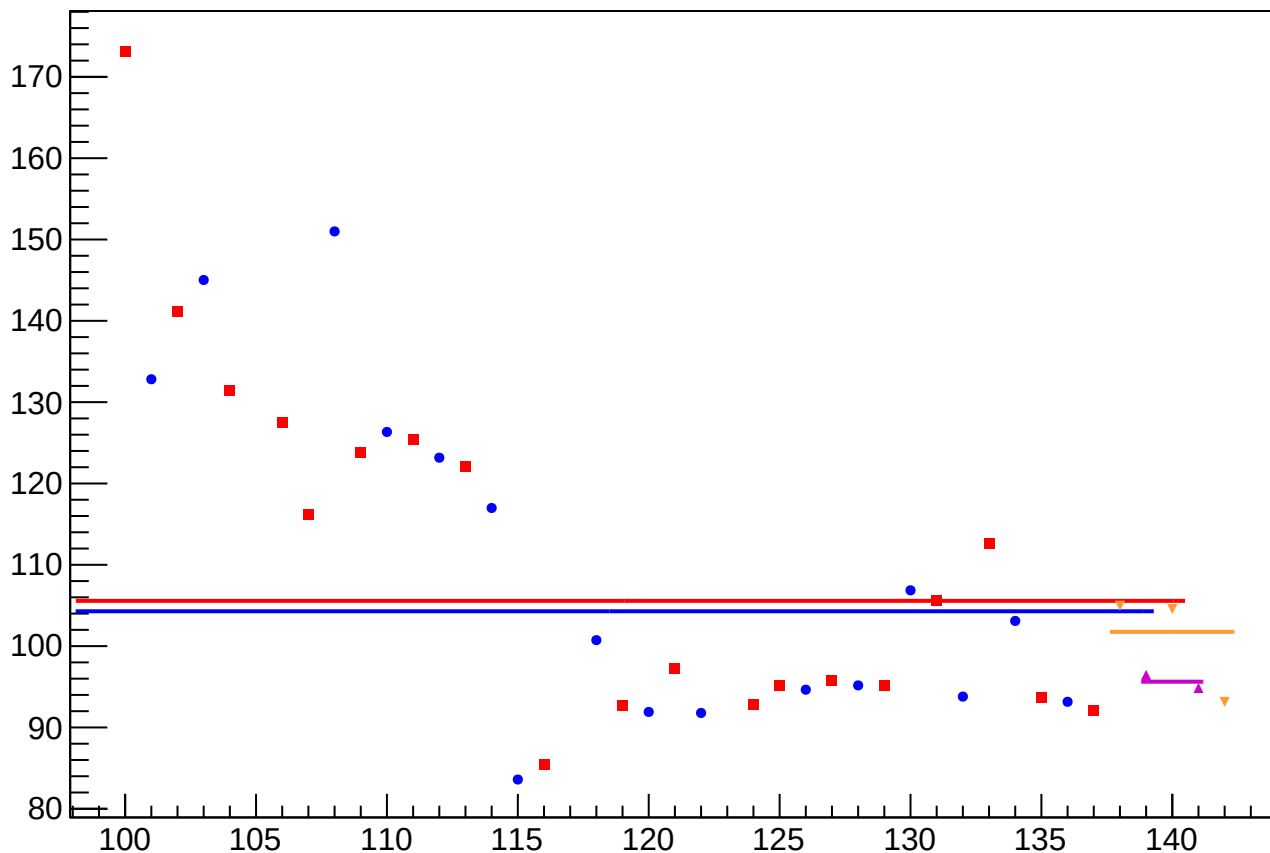
Right: 147.548 $\pm$ 27.855 χ^2 /NDF: 31.6/34

In: 123.721 $\pm$ 34.686 χ^2 /NDF:12.4/17

Out: 113.310 $\pm$ 34.444 χ^2 /NDF:27.5/21

All: 118.479 $\pm$ 24.441 χ^2 /NDF: 40.0/39

dit_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 104.286 $\pm$ 0.028 χ^2 /NDF: 378310.9/15

Left Out: 101.755 $\pm$ 0.050 χ^2 /NDF:10184.9/2

Right Out: 105.568 $\pm$ 0.028 χ^2 /NDF: 344605.9/18

Left In: 95.628 $\pm$ 0.052 χ^2 /NDF:242.8/1

Left: 98.757 $\pm$ 0.036 χ^2 /NDF: 17656.0/4

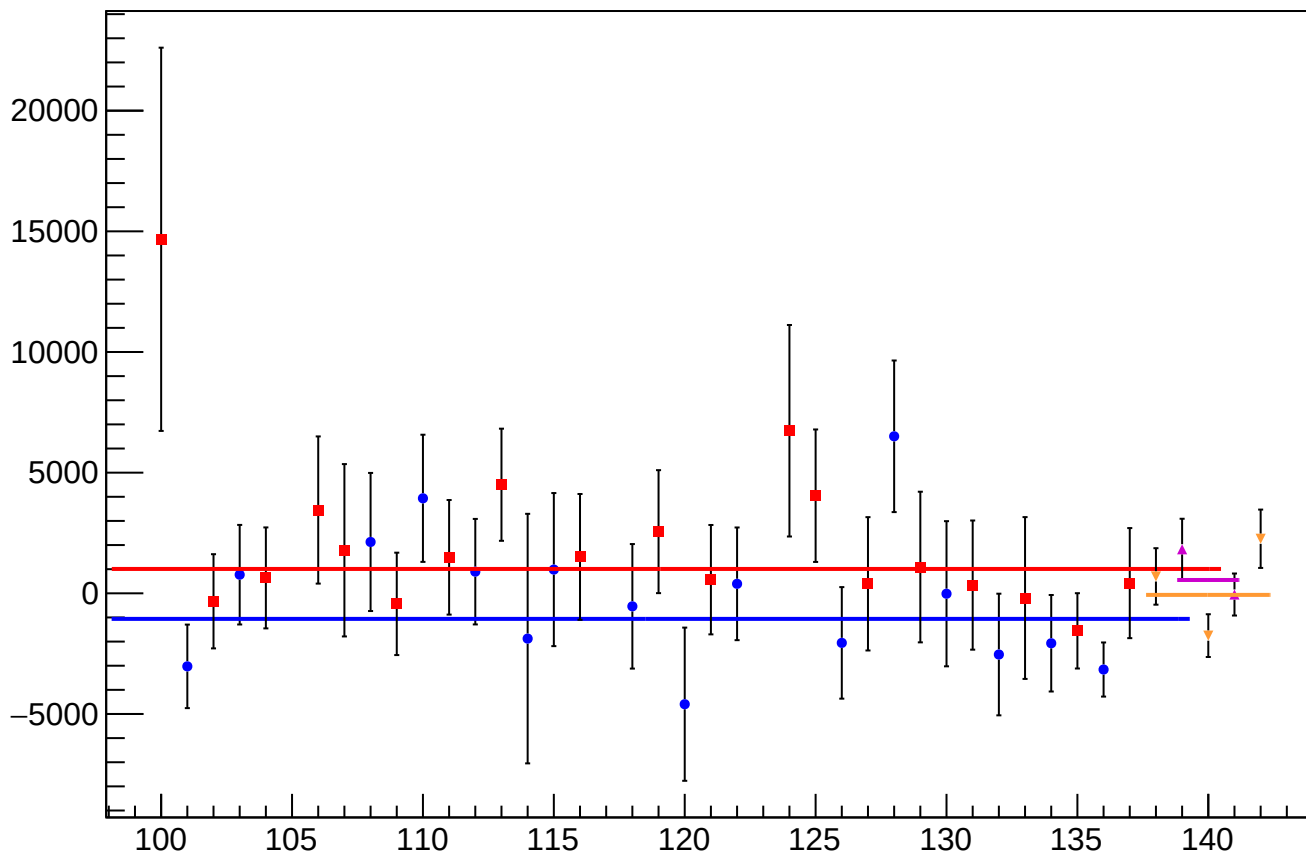
Right: 104.929 $\pm$ 0.020 χ^2 /NDF: 723975.9/34

In: 102.323 $\pm$ 0.025 χ^2 /NDF:400404.6/17

Out: 104.678 $\pm$ 0.024 χ^2 /NDF:359176.6/21

All: 103.509 $\pm$ 0.017 χ^2 /NDF: 764224.8/39

asym_sam_24_68_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -1059.357 $\pm$ 557.645 χ^2 /NDF: 20.0/15

Left Out: -65.050 $\pm$ 609.849 χ^2 /NDF: 7.8/2

Right Out: 1009.907 $\pm$ 575.100 χ^2 /NDF: 13.3/18

Left In: 552.605 $\pm$ 717.172 χ^2 /NDF: 1.5/1

Left: 194.149 $\pm$ 464.587 χ^2 /NDF: 9.7/4

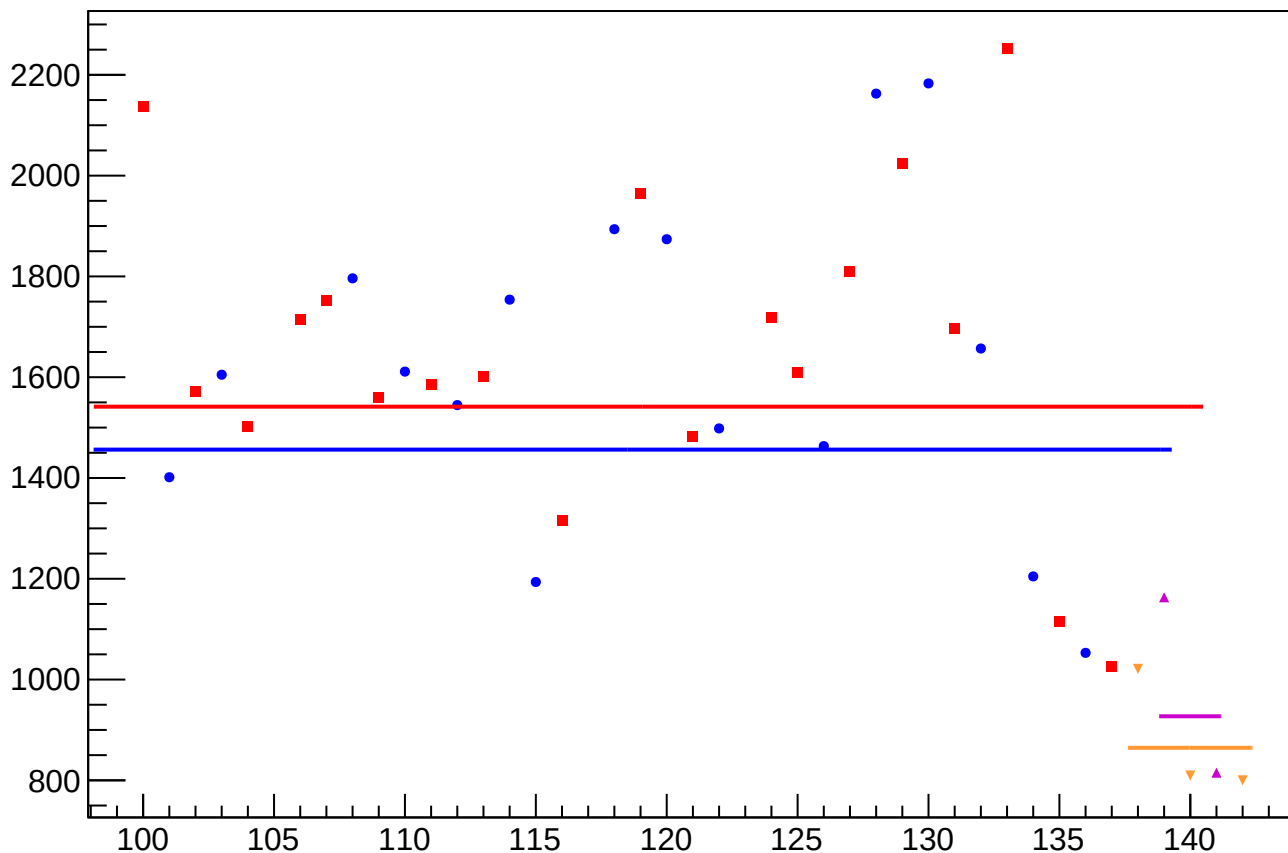
Right: -56.604 $\pm$ 400.343 χ^2 /NDF: 40.0/34

In: -451.983 $\pm$ 440.225 χ^2 /NDF: 24.7/17

Out: 503.925 $\pm$ 418.403 χ^2 /NDF: 22.7/21

All: 50.250 $\pm$ 303.277 χ^2 /NDF: 49.9/39

asym_sam_24_68_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1456.303+/-0.394 χ^2/NDF : 684806.5/15

Left Out: 864.596+/-0.431 χ^2/NDF : 49248.9/2

Right Out: 1541.522+/-0.407 χ^2/NDF : 519336.6/18

Left In: 927.095+/-0.507 χ^2/NDF : 102727.5/1

Left: 890.823+/-0.329 χ^2/NDF : 160791.5/4

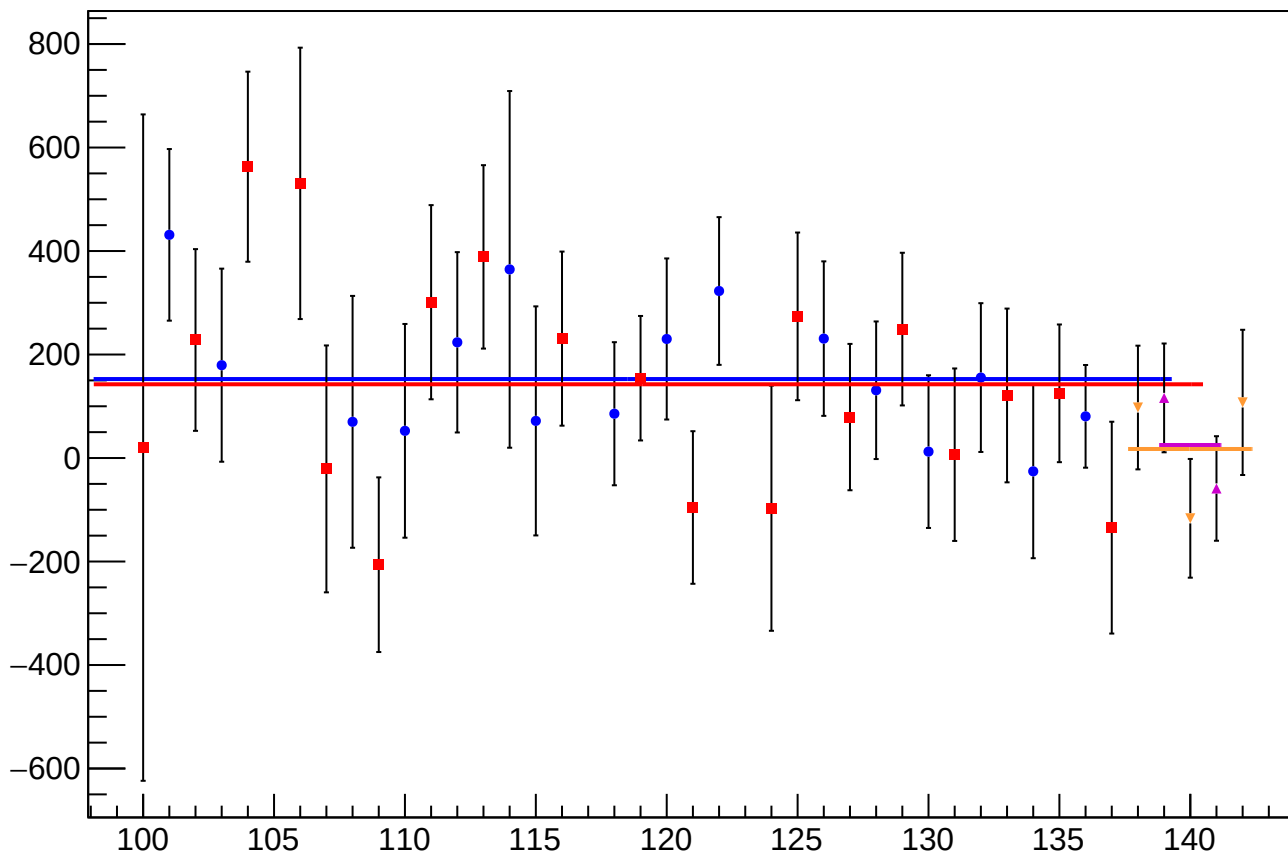
Right: 1497.600+/-0.283 χ^2/NDF : 1226777.5/34

In: 1256.902+/-0.311 χ^2/NDF : 1466219.8/17

Out: 1222.893+/-0.296 χ^2/NDF : 1872865.4/21

All: 1239.034+/-0.214 χ^2/NDF : 3345356.5/39

eigen_dit_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 152.628 $\pm$ 39.446 χ^2 /NDF: 8.6/15

Left Out: 17.469 $\pm$ 71.289 χ^2 /NDF:2.2/2

Right Out: 142.494 $\pm$ 39.340 χ^2 /NDF: 22.9/18

Left In: 25.168 $\pm$ 72.836 χ^2 /NDF:1.4/1

Left: 21.236 $\pm$ 50.947 χ^2 /NDF: 3.7/4

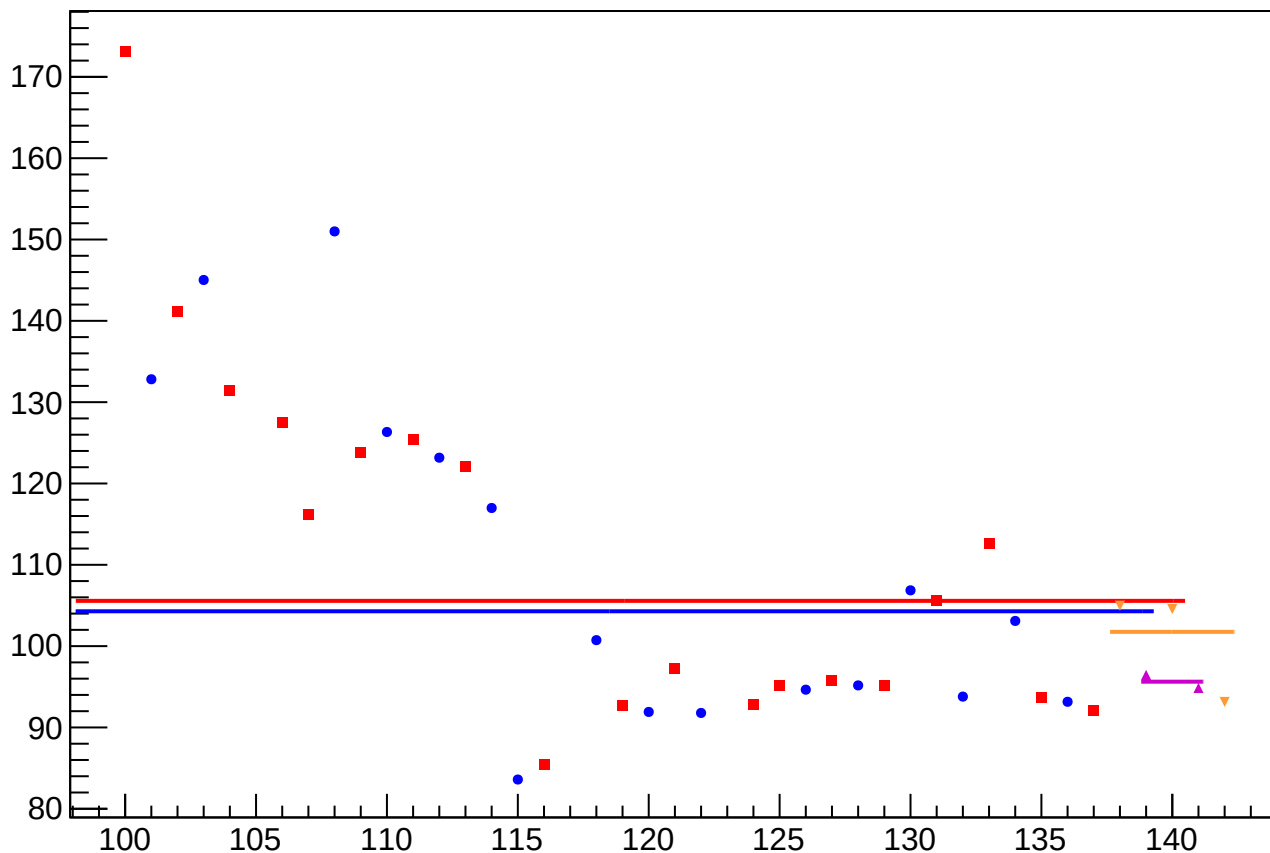
Right: 147.548 $\pm$ 27.855 χ^2 /NDF: 31.6/34

In: 123.722 $\pm$ 34.686 χ^2 /NDF:12.4/17

Out: 113.308 $\pm$ 34.444 χ^2 /NDF:27.5/21

All: 118.479 $\pm$ 24.441 χ^2 /NDF: 40.0/39

eigen_dit_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 104.285 $\pm$ 0.028 χ^2 /NDF: 378313.2/15

Left Out: 101.755 $\pm$ 0.050 χ^2 /NDF:10184.3/2

Right Out: 105.567 $\pm$ 0.028 χ^2 /NDF: 344605.1/18

Left In: 95.628 $\pm$ 0.052 χ^2 /NDF:242.7/1

Left: 98.757 $\pm$ 0.036 χ^2 /NDF: 17655.5/4

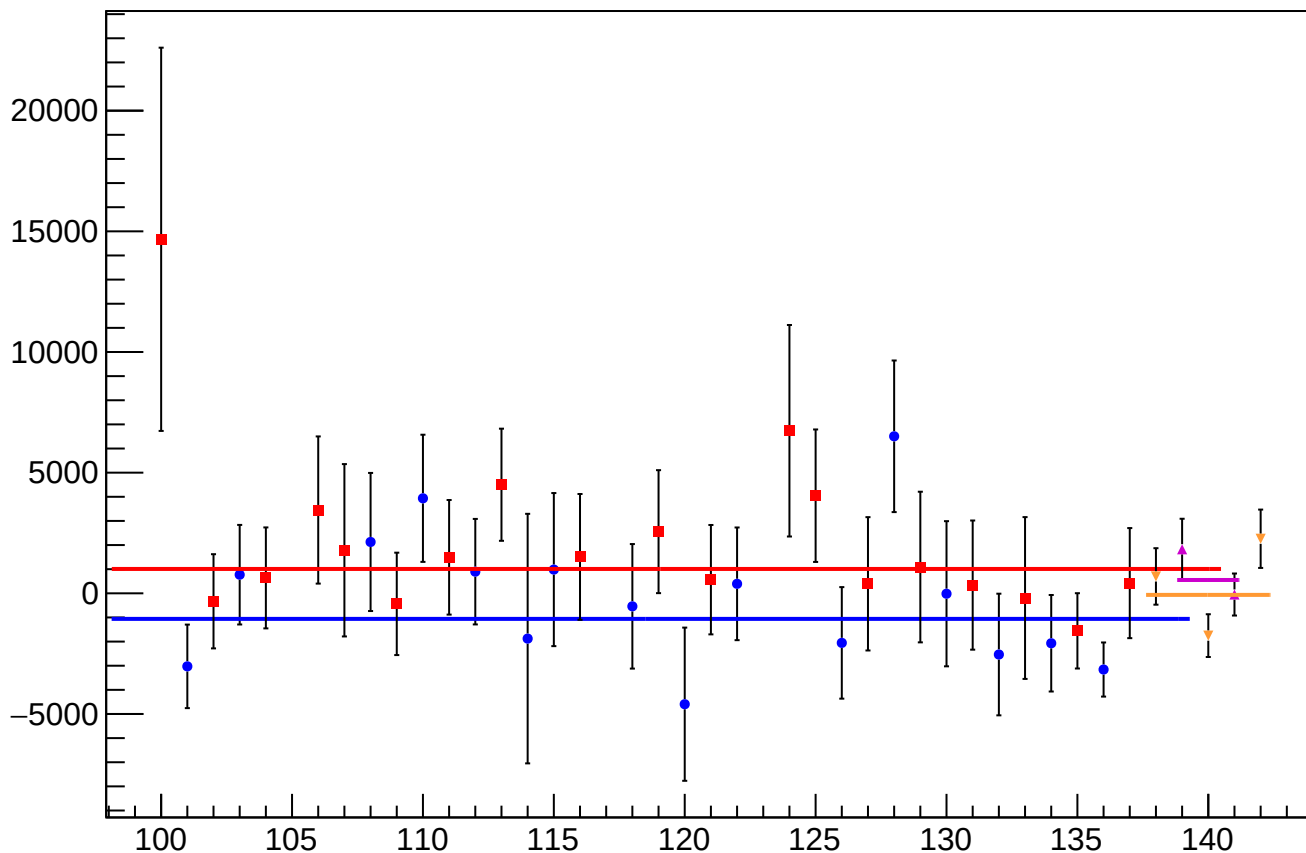
Right: 104.928 $\pm$ 0.020 χ^2 /NDF: 723977.9/34

In: 102.322 $\pm$ 0.025 χ^2 /NDF:400402.8/17

Out: 104.677 $\pm$ 0.024 χ^2 /NDF:359173.9/21

All: 103.508 $\pm$ 0.017 χ^2 /NDF: 764221.2/39

asym_sam_24_68_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1059.353 $\pm$ 557.644 χ^2 /NDF: 20.0/15

Left Out: -65.053 $\pm$ 609.849 χ^2 /NDF:7.8/2

Right Out: 1009.907 $\pm$ 575.099 χ^2 /NDF: 13.3/18

Left In: 552.606 $\pm$ 717.171 χ^2 /NDF:1.5/1

Left: 194.148 $\pm$ 464.587 χ^2 /NDF: 9.7/4

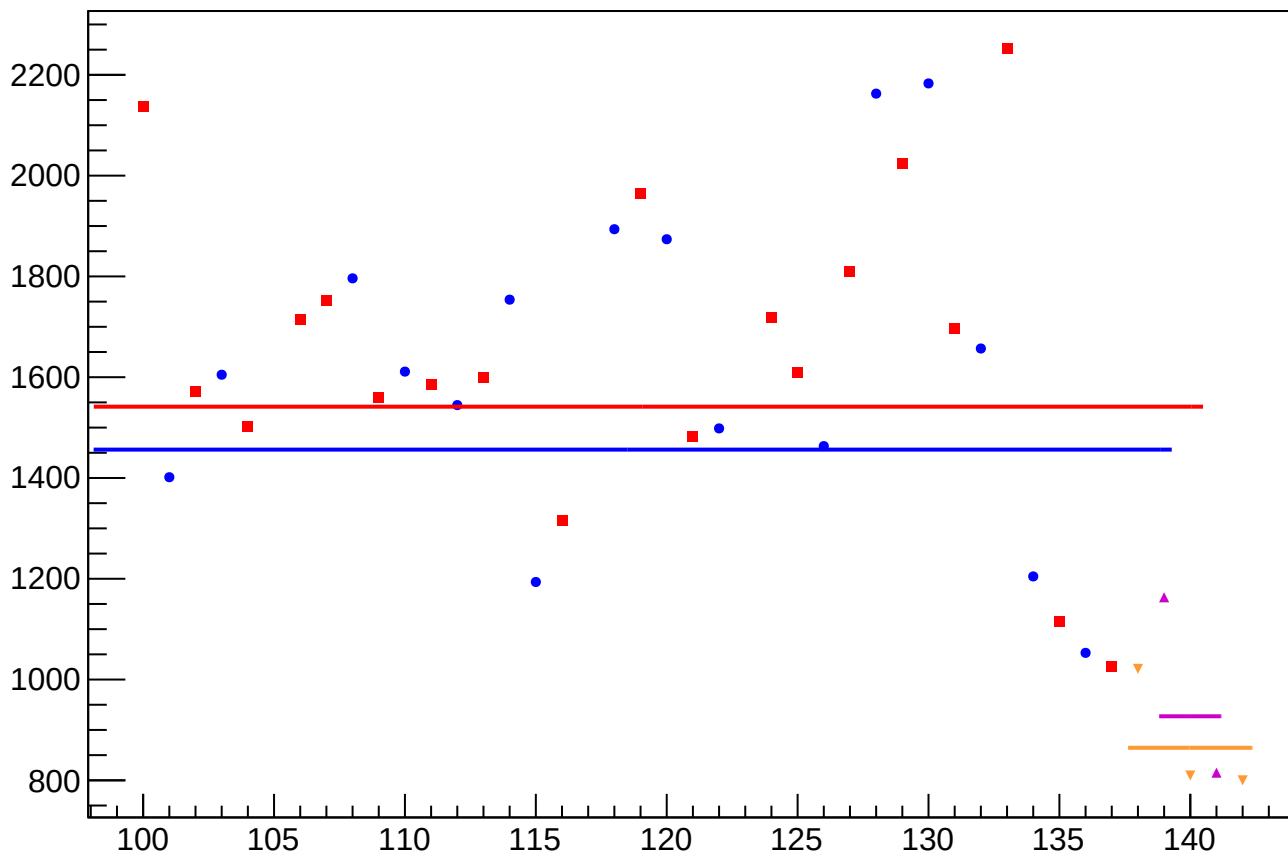
Right: -56.602 $\pm$ 400.342 χ^2 /NDF: 40.0/34

In: -451.980 $\pm$ 440.224 χ^2 /NDF:24.7/17

Out: 503.924 $\pm$ 418.402 χ^2 /NDF:22.7/21

All: 50.250 $\pm$ 303.276 χ^2 /NDF: 49.9/39

asym_sam_24_68_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1456.301 $\pm$ 0.394 χ^2 /NDF: 684803.6/15

Left Out: 864.595 $\pm$ 0.431 χ^2 /NDF:49247.4/2

Right Out: 1541.520 $\pm$ 0.407 χ^2 /NDF: 519336.6/18

Left In: 927.094 $\pm$ 0.507 χ^2 /NDF:102726.9/1

Left: 890.822 $\pm$ 0.329 χ^2 /NDF: 160789.2/4

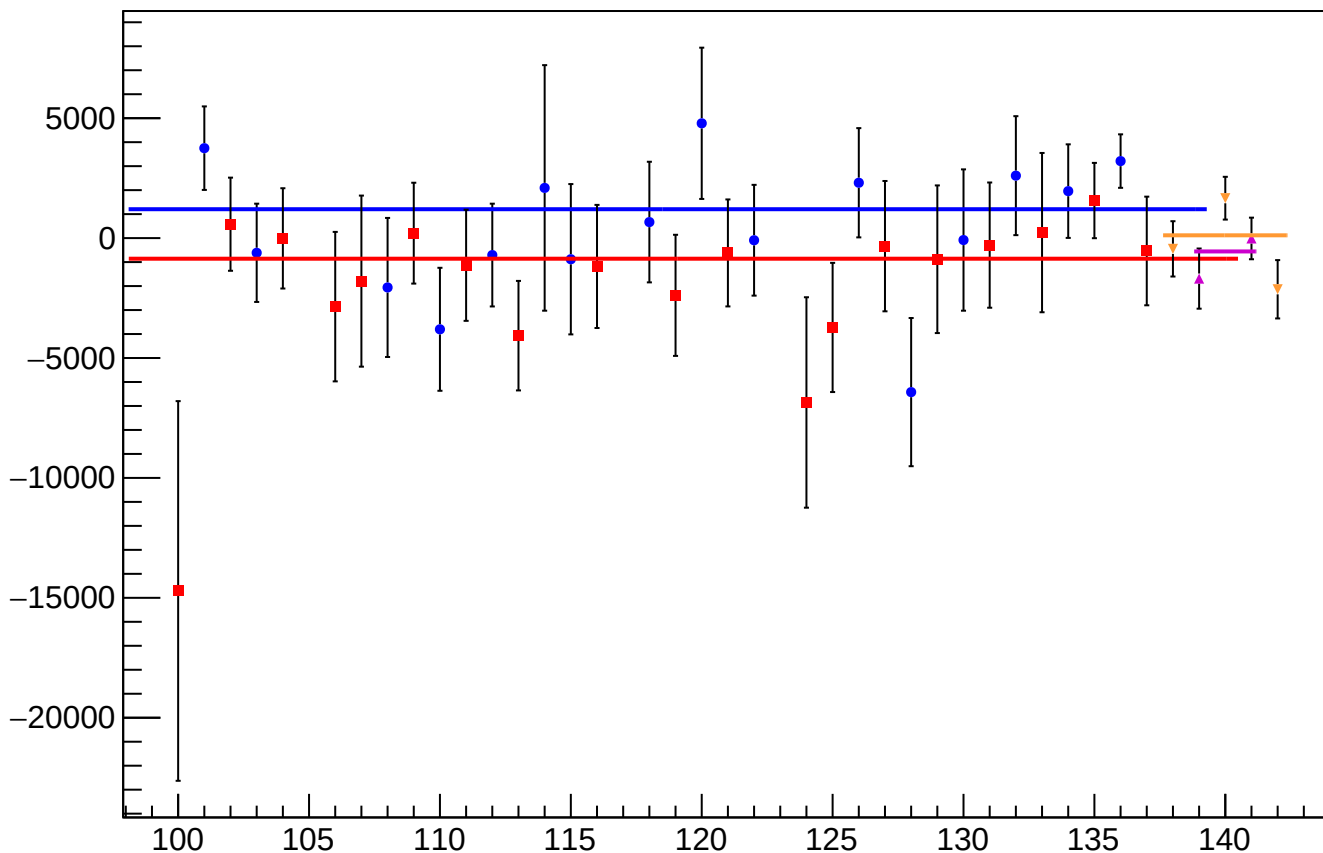
Right: 1497.597 $\pm$ 0.283 χ^2 /NDF: 1226774.5/34

In: 1256.900 $\pm$ 0.311 χ^2 /NDF:1466216.2/17

Out: 1222.891 $\pm$ 0.296 χ^2 /NDF:1872860.0/21

All: 1239.032 $\pm$ 0.214 χ^2 /NDF: 3345347.3/39

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1204.691 $\pm$ 551.729 χ^2 /NDF: 21.1/15

Left Out: 116.389 $\pm$ 610.226 χ^2 /NDF:6.7/2

Right Out: -859.290 $\pm$ 570.391 χ^2 /NDF: 12.5/18

Left In: -556.120 $\pm$ 713.478 χ^2 /NDF:1.2/1

Left: -167.725 $\pm$ 463.744 χ^2 /NDF: 8.4/4

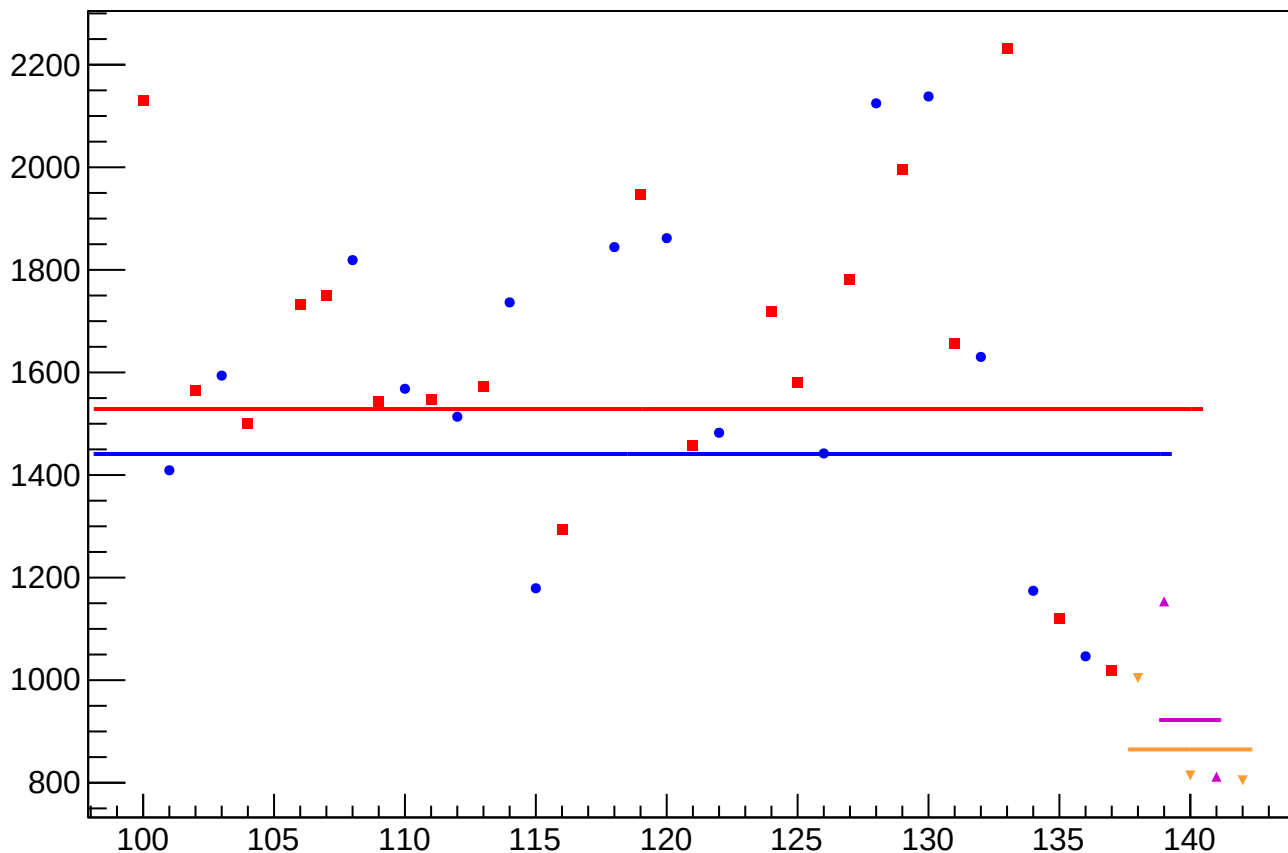
Right: 207.019 $\pm$ 396.565 χ^2 /NDF: 40.4/34

In: 545.776 $\pm$ 436.455 χ^2 /NDF:26.2/17

Out: -404.333 $\pm$ 416.699 χ^2 /NDF:20.5/21

All: 48.732 $\pm$ 301.393 χ^2 /NDF: 49.2/39

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1441.025+/-0.390 χ^2/NDF : 670674.6/15

Left Out: 864.957+/-0.431 χ^2/NDF : 40517.0/2

Right Out: 1528.652+/-0.403 χ^2/NDF : 501717.6/18

Left In: 922.367+/-0.505 χ^2/NDF : 100451.5/1

Left: 889.211+/-0.328 χ^2/NDF : 148447.2/4

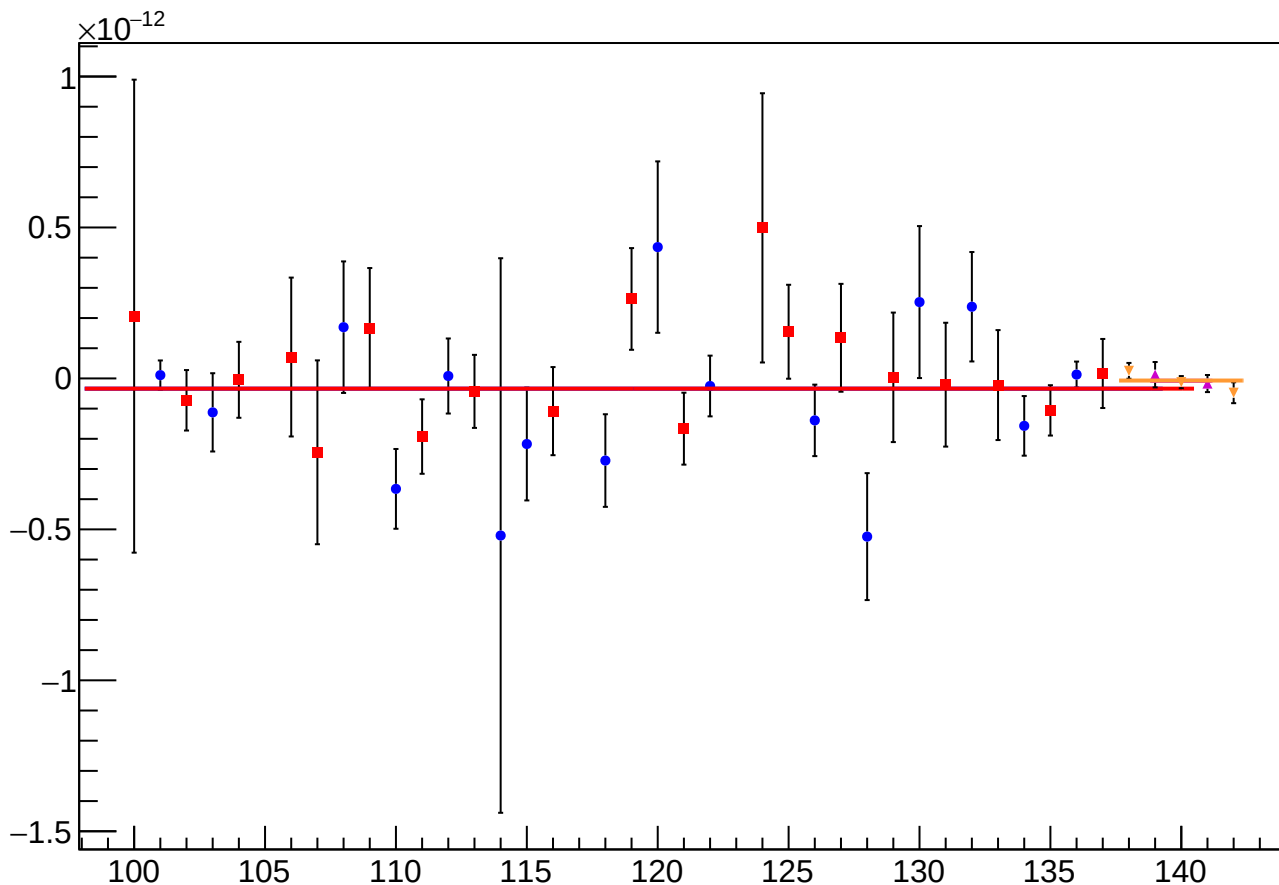
Right: 1483.381+/-0.280 χ^2/NDF : 1196778.1/34

In: 1246.937+/-0.309 χ^2/NDF : 1432514.8/17

Out: 1219.172+/-0.295 χ^2/NDF : 1804889.7/21

All: 1232.412+/-0.213 χ^2/NDF : 3241638.7/39

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 27.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 2.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 13.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.3/1

Left: -0.000+/-0.000 χ^2/NDF : 3.3/4

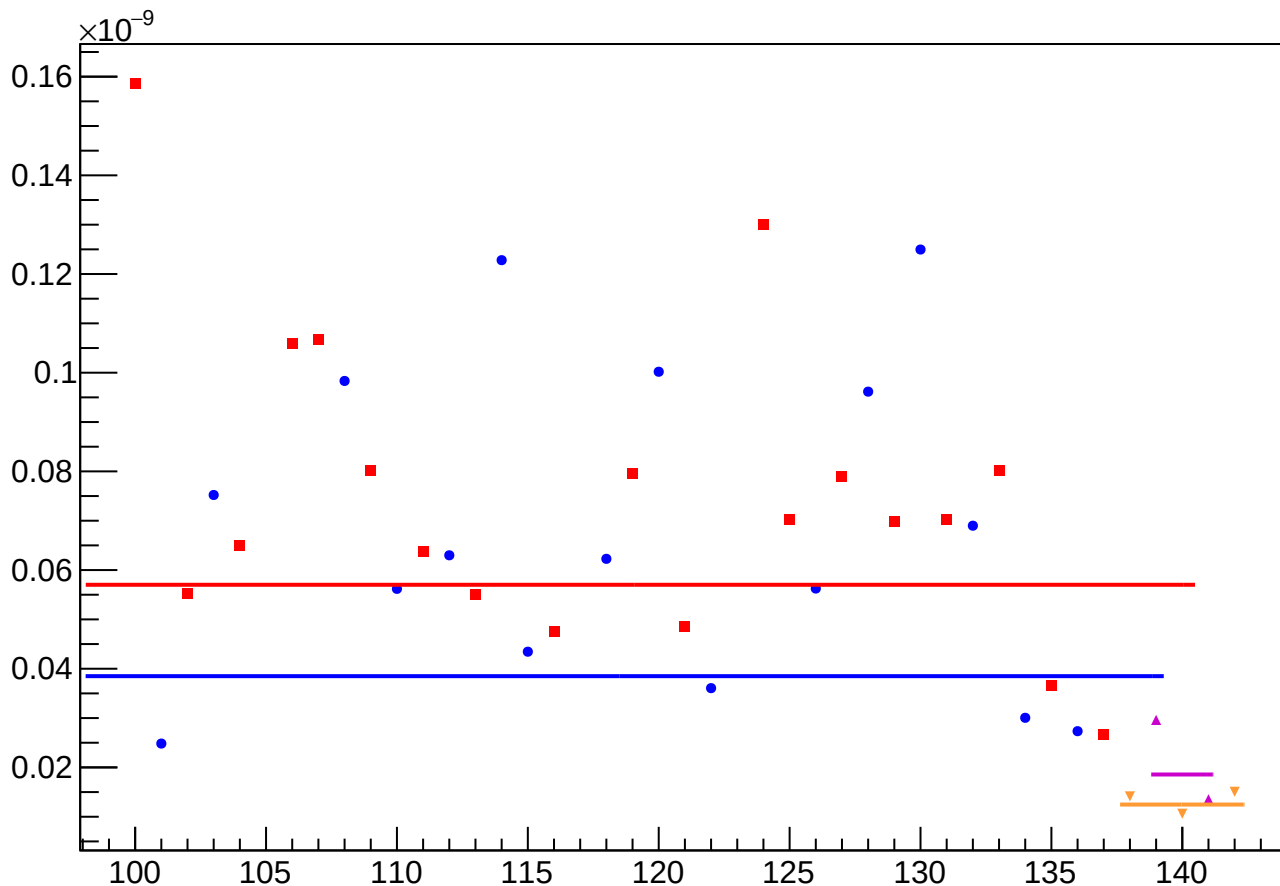
Right: -0.000+/-0.000 χ^2/NDF : 40.4/34

In: -0.000+/-0.000 χ^2/NDF : 28.3/17

Out: -0.000+/-0.000 χ^2/NDF : 16.5/21

All: -0.000+/-0.000 χ^2/NDF : 44.9/39

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1382311.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 36218.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 660994.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 201382.9/1

Left: 0.000+/-0.000 χ^2/NDF : 335080.1/4

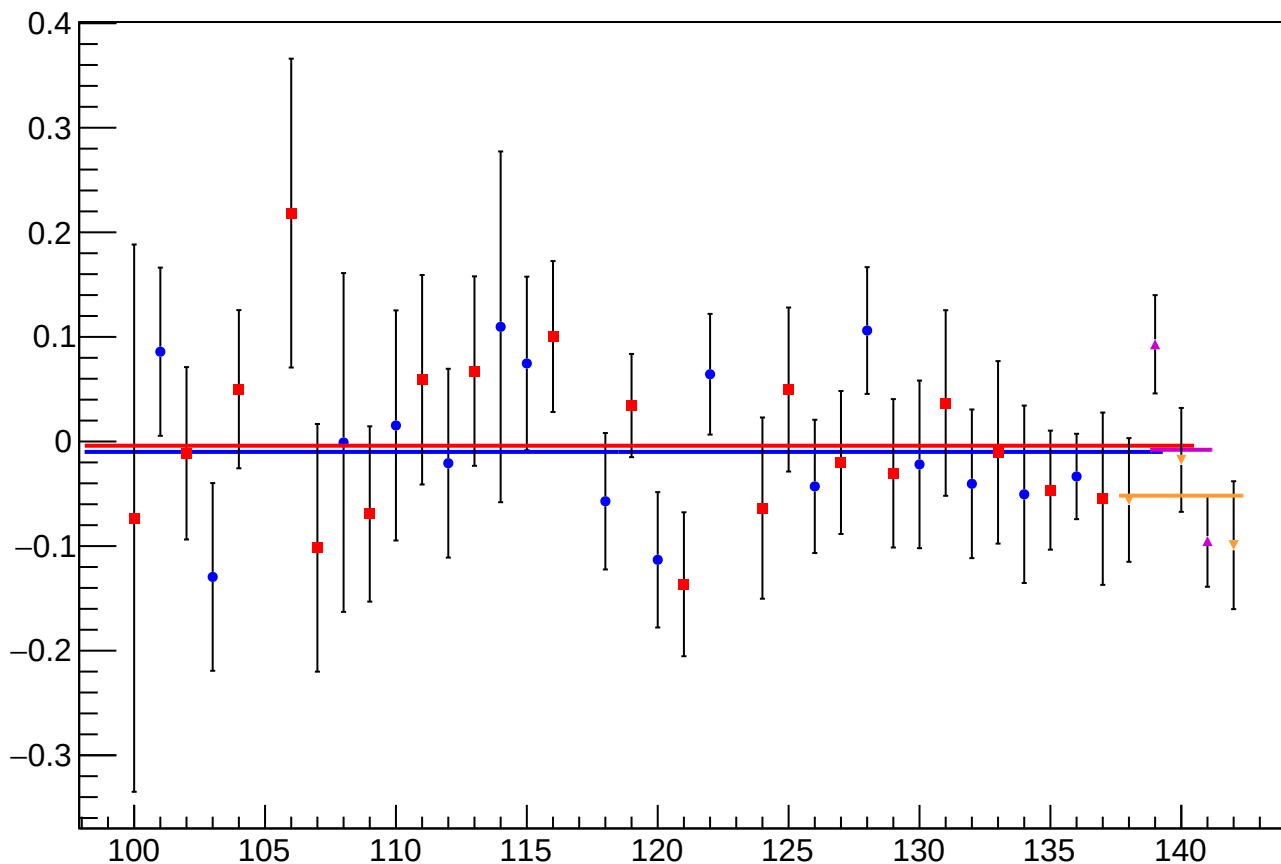
Right: 0.000+/-0.000 χ^2/NDF : 2430892.0/34

In: 0.000+/-0.000 χ^2/NDF : 2257964.3/17

Out: 0.000+/-0.000 χ^2/NDF : 3630738.3/21

All: 0.000+/-0.000 χ^2/NDF : 6194002.8/39

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.018 χ^2/NDF : 14.2/15

Left Out: -0.052 ± 0.032 χ^2/NDF : 1.1/2

Right Out: -0.004 ± 0.018 χ^2/NDF : 13.9/18

Left In: -0.008 ± 0.032 χ^2/NDF : 8.6/1

Left: -0.030 ± 0.023 χ^2/NDF : 10.6/4

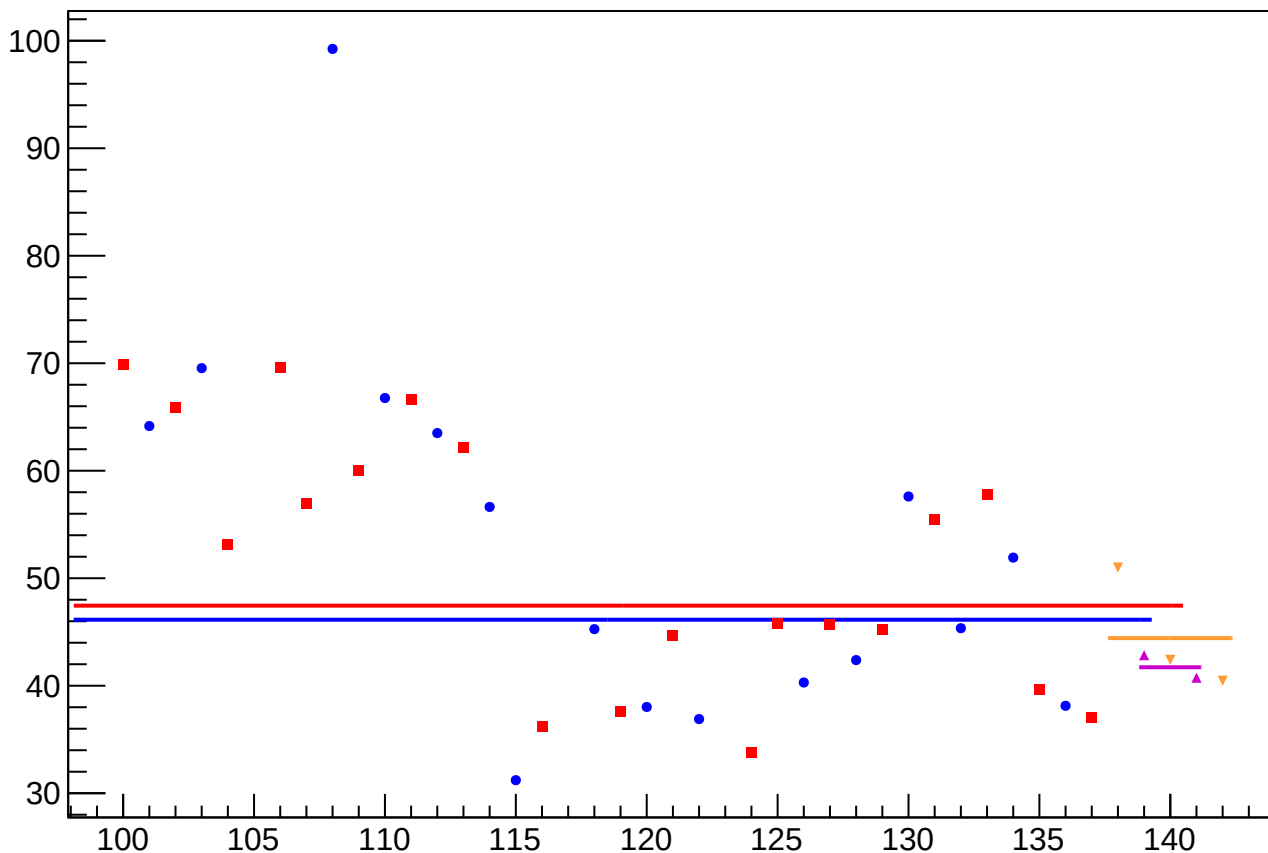
Right: -0.007 ± 0.013 χ^2/NDF : 28.1/34

In: -0.009 ± 0.016 χ^2/NDF : 22.8/17

Out: -0.015 ± 0.016 χ^2/NDF : 16.6/21

All: -0.012 ± 0.011 χ^2/NDF : 39.5/39

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 46.141 $\pm$ 0.013 χ^2 /NDF: 903280.2/15

Left Out: 44.429 $\pm$ 0.023 χ^2 /NDF: 36393.3/2

Right Out: 47.450 $\pm$ 0.013 χ^2 /NDF: 654693.6/18

Left In: 41.718 $\pm$ 0.023 χ^2 /NDF: 2124.6/1

Left: 43.061 $\pm$ 0.016 χ^2 /NDF: 45626.2/4

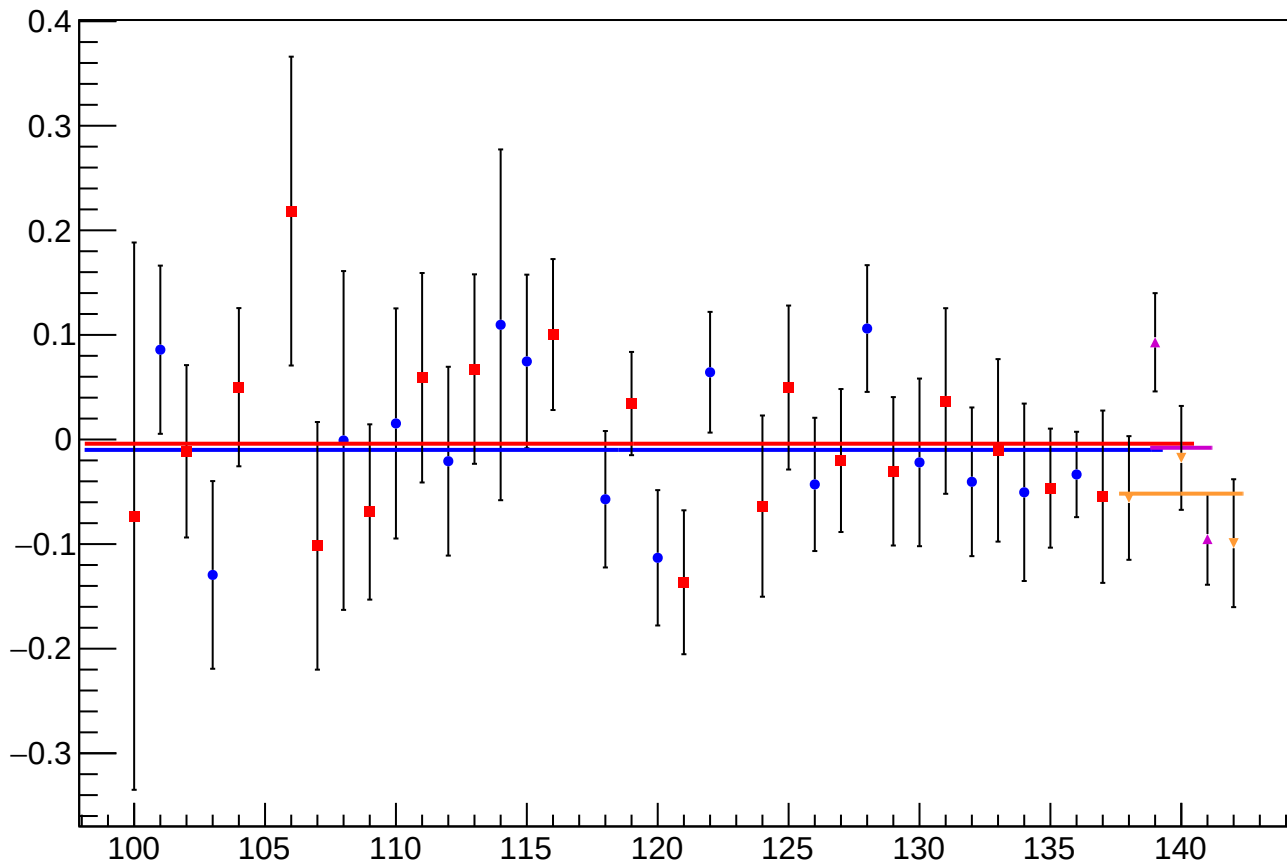
Right: 46.792 $\pm$ 0.009 χ^2 /NDF: 1563231.6/34

In: 45.079 $\pm$ 0.011 χ^2 /NDF: 934435.4/17

Out: 46.728 $\pm$ 0.011 χ^2 /NDF: 704407.2/21

All: 45.898 $\pm$ 0.008 χ^2 /NDF: 1649826.4/39

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.018 χ^2/NDF : 14.2/15

Left Out: -0.052 ± 0.032 χ^2/NDF : 1.1/2

Right Out: -0.004 ± 0.018 χ^2/NDF : 13.9/18

Left In: -0.008 ± 0.032 χ^2/NDF : 8.6/1

Left: -0.030 ± 0.023 χ^2/NDF : 10.6/4

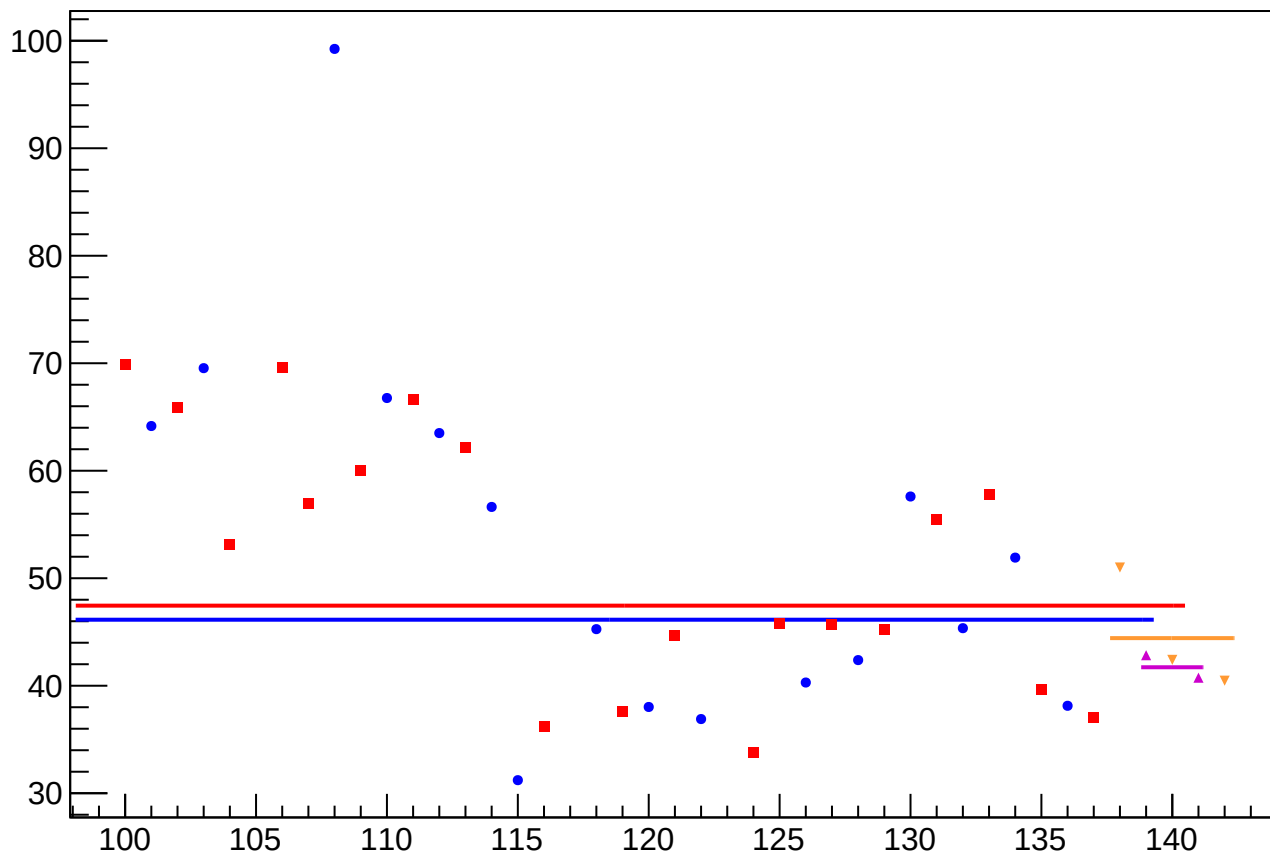
Right: -0.007 ± 0.013 χ^2/NDF : 28.1/34

In: -0.009 ± 0.016 χ^2/NDF : 22.8/17

Out: -0.015 ± 0.016 χ^2/NDF : 16.6/21

All: -0.012 ± 0.011 χ^2/NDF : 39.5/39

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 46.141 $\pm$ 0.013 χ^2/NDF : 903280.2/15

Left Out: 44.429 $\pm$ 0.023 χ^2/NDF : 36393.3/2

Right Out: 47.450 $\pm$ 0.013 χ^2/NDF : 654693.6/18

Left In: 41.718 $\pm$ 0.023 χ^2/NDF : 2124.6/1

Left: 43.061 $\pm$ 0.016 χ^2/NDF : 45626.2/4

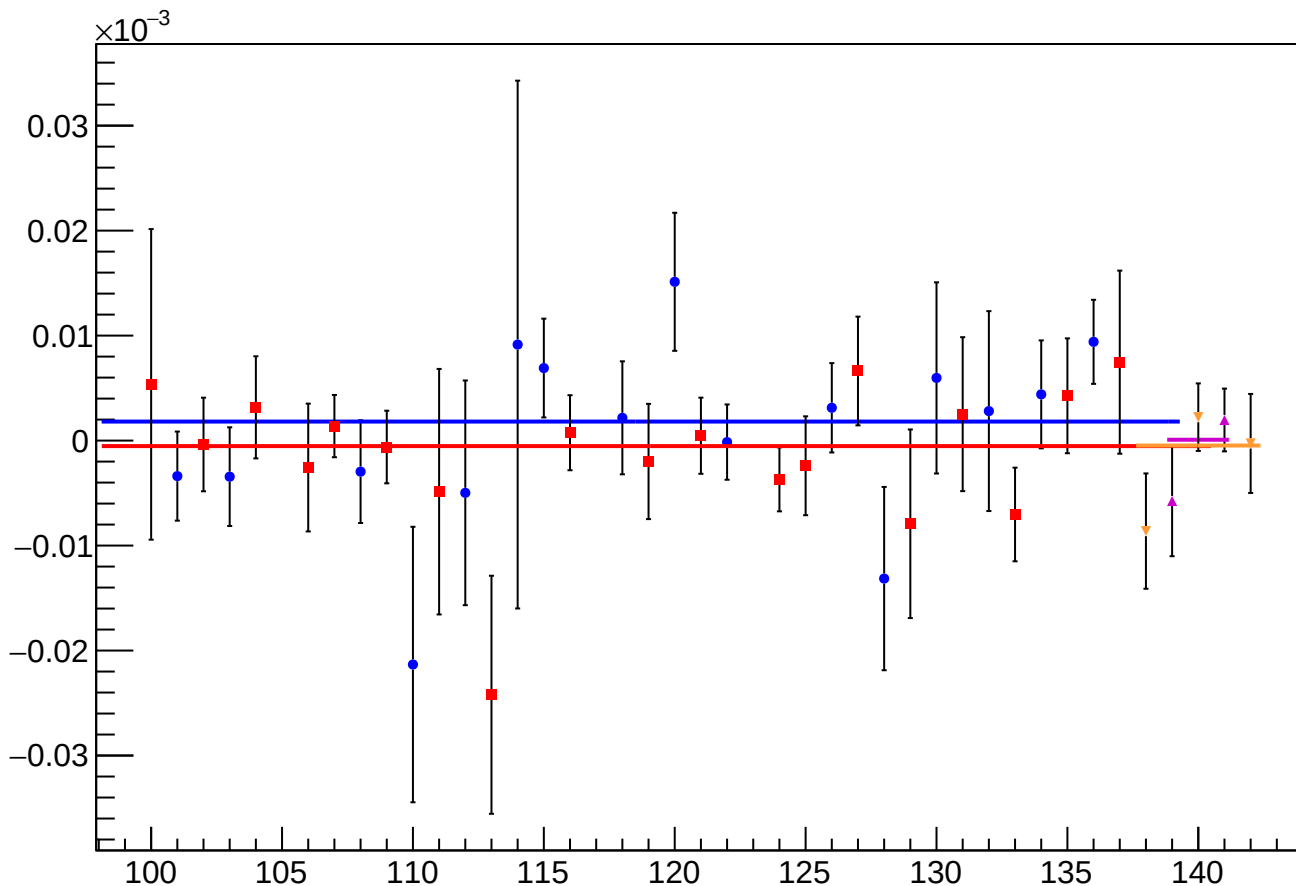
Right: 46.792 $\pm$ 0.009 χ^2/NDF : 1563231.6/34

In: 45.079 $\pm$ 0.011 χ^2/NDF : 934435.4/17

Out: 46.728 $\pm$ 0.011 χ^2/NDF : 704407.2/21

All: 45.898 $\pm$ 0.008 χ^2/NDF : 1649826.4/39

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 20.0/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 2.9/2$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 13.8/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 1.6/1$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 4.6/4$

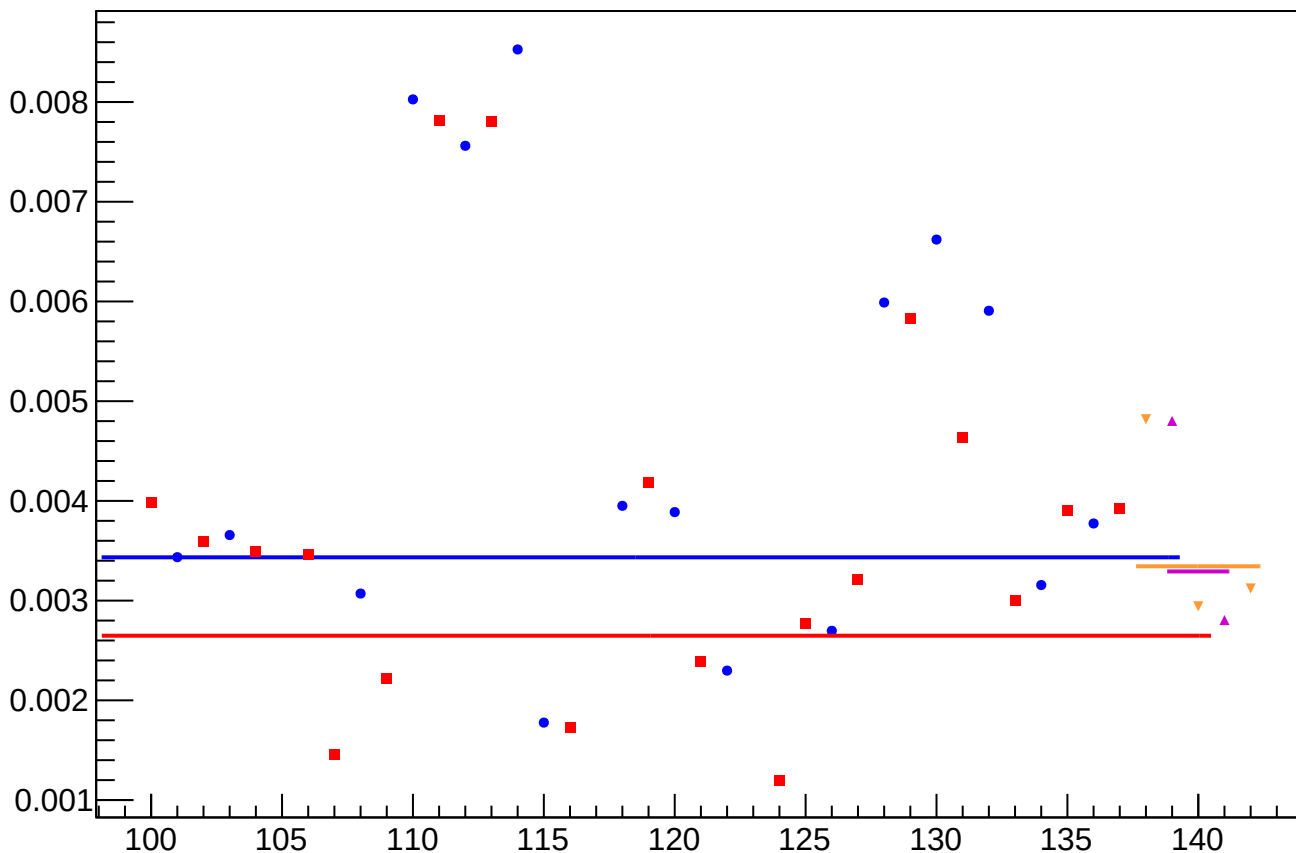
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 35.5/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 21.9/17$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 16.7/21$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 40.2/39$

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1748561.6/15

Left Out: 0.003+/-0.000 χ^2/NDF :179791.8/2

Right Out: 0.003+/-0.000 χ^2/NDF : 2696872.6/18

Left In: 0.003+/-0.000 χ^2/NDF :217959.7/1

Left: 0.003+/-0.000 χ^2/NDF : 398184.7/4

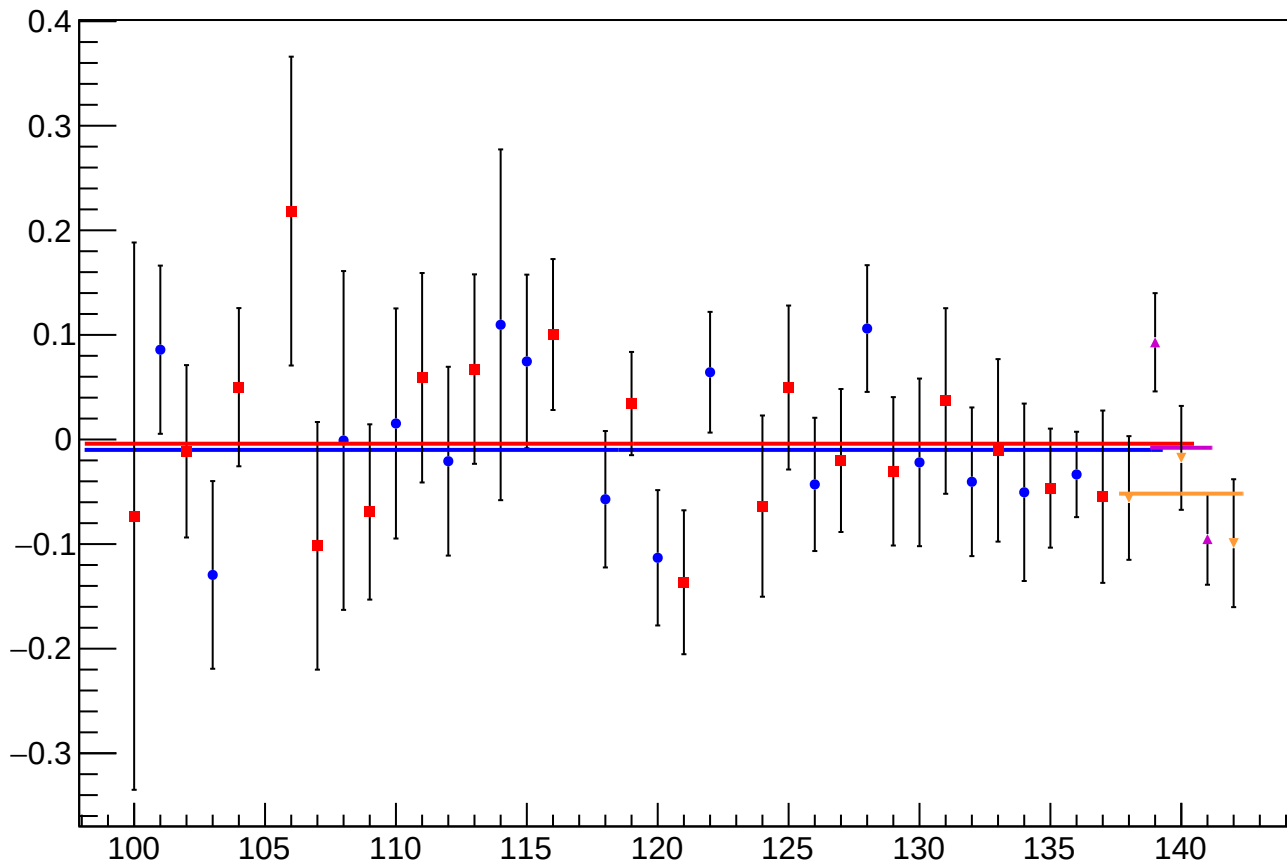
Right: 0.003+/-0.000 χ^2/NDF : 4848064.7/34

In: 0.003+/-0.000 χ^2/NDF :1971178.4/17

Out: 0.003+/-0.000 χ^2/NDF :3017076.6/21

All: 0.003+/-0.000 χ^2/NDF : 5317238.8/39

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 14.2/15$

Left Out: -0.052 ± 0.032 $\chi^2/\text{NDF}: 1.1/2$

Right Out: -0.004 ± 0.018 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.008 ± 0.032 $\chi^2/\text{NDF}: 8.6/1$

Left: -0.030 ± 0.023 $\chi^2/\text{NDF}: 10.6/4$

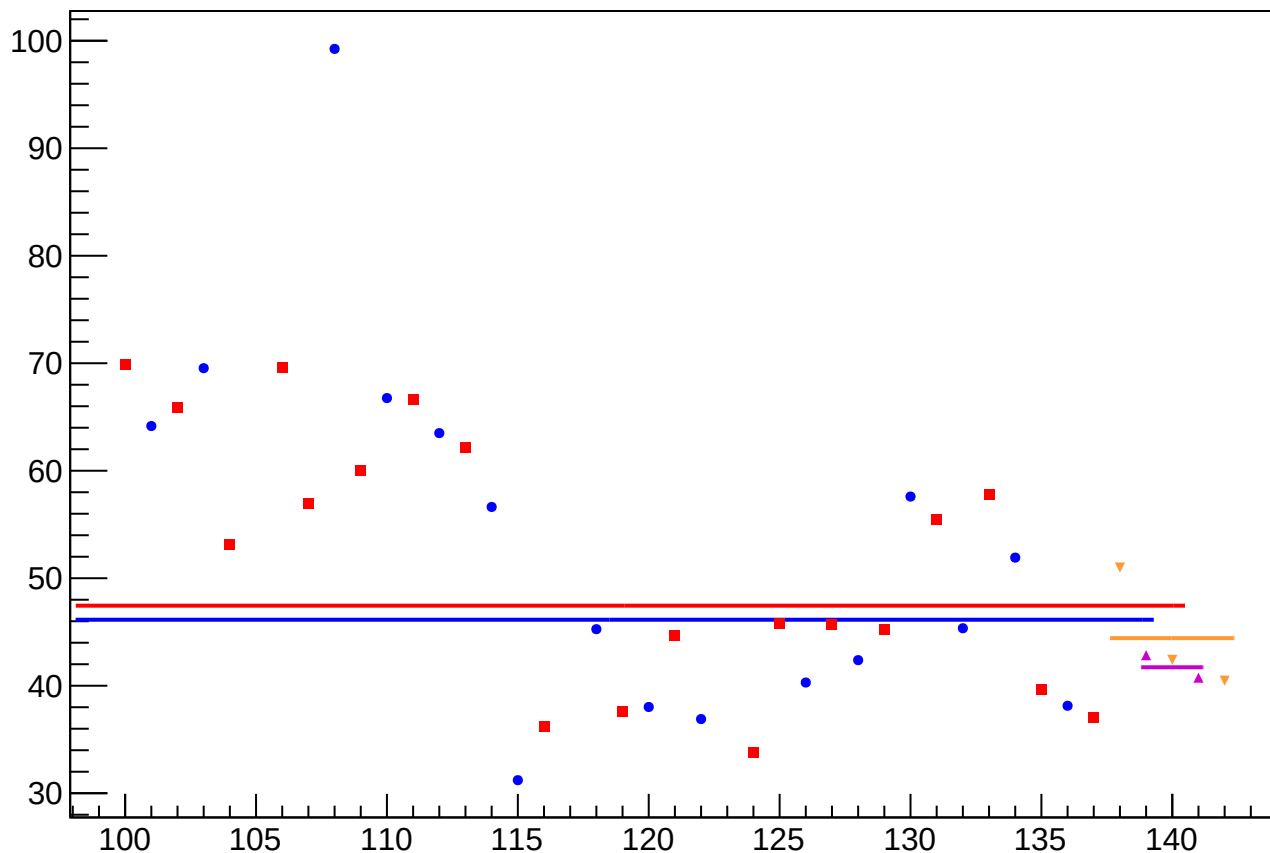
Right: -0.007 ± 0.013 $\chi^2/\text{NDF}: 28.1/34$

In: -0.009 ± 0.016 $\chi^2/\text{NDF}: 22.8/17$

Out: -0.015 ± 0.016 $\chi^2/\text{NDF}: 16.6/21$

All: -0.012 ± 0.011 $\chi^2/\text{NDF}: 39.5/39$

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 46.140 $\pm$ 0.013 χ^2 /NDF: 903251.1/15

Left Out: 44.429 $\pm$ 0.023 χ^2 /NDF: 36382.5/2

Right Out: 47.448 $\pm$ 0.013 χ^2 /NDF: 654687.8/18

Left In: 41.718 $\pm$ 0.023 χ^2 /NDF: 2122.4/1

Left: 43.061 $\pm$ 0.016 χ^2 /NDF: 45615.1/4

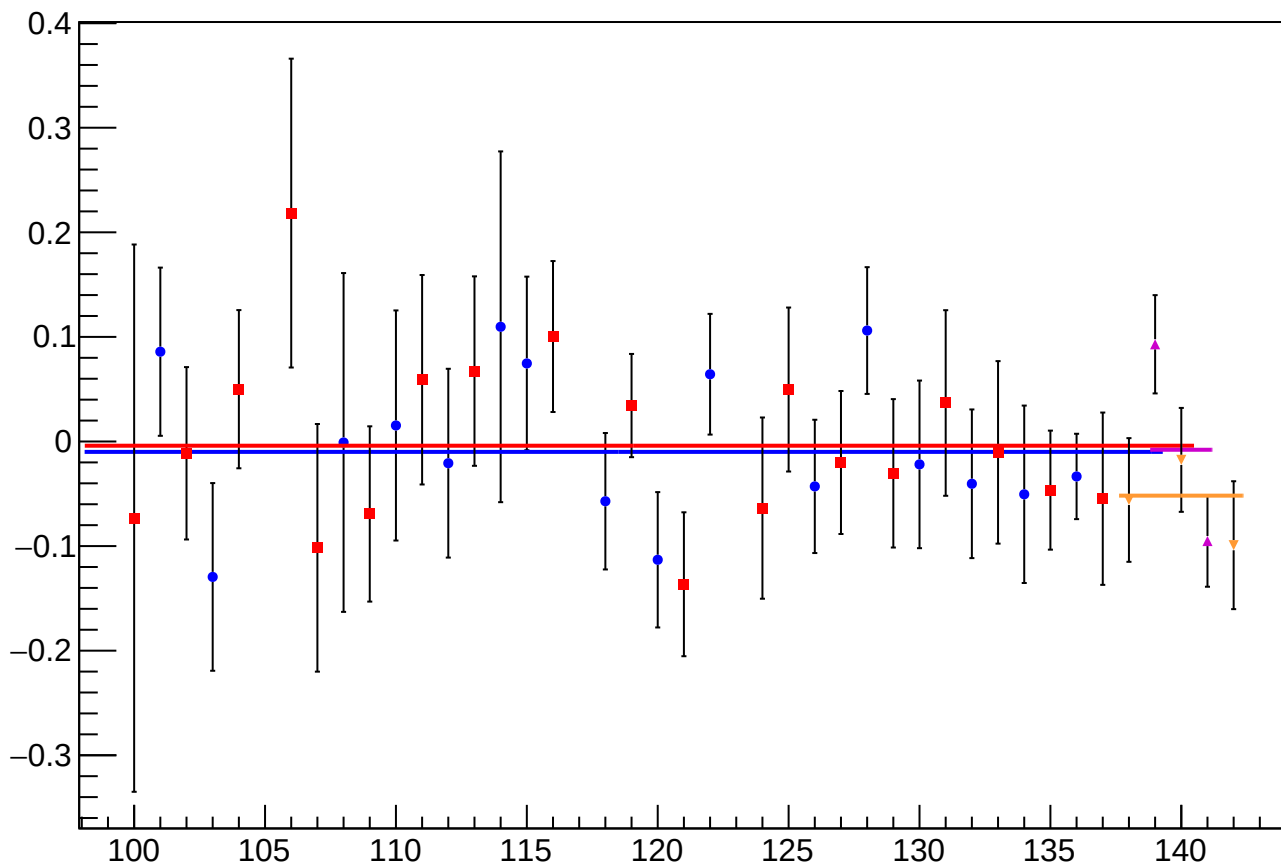
Right: 46.790 $\pm$ 0.009 χ^2 /NDF: 1563199.9/34

In: 45.078 $\pm$ 0.011 χ^2 /NDF: 934388.0/17

Out: 46.727 $\pm$ 0.011 χ^2 /NDF: 704379.6/21

All: 45.897 $\pm$ 0.008 χ^2 /NDF: 1649756.5/39

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 14.2/15$

Left Out: -0.052 ± 0.032 $\chi^2/\text{NDF}: 1.1/2$

Right Out: -0.004 ± 0.018 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.008 ± 0.032 $\chi^2/\text{NDF}: 8.6/1$

Left: -0.030 ± 0.023 $\chi^2/\text{NDF}: 10.6/4$

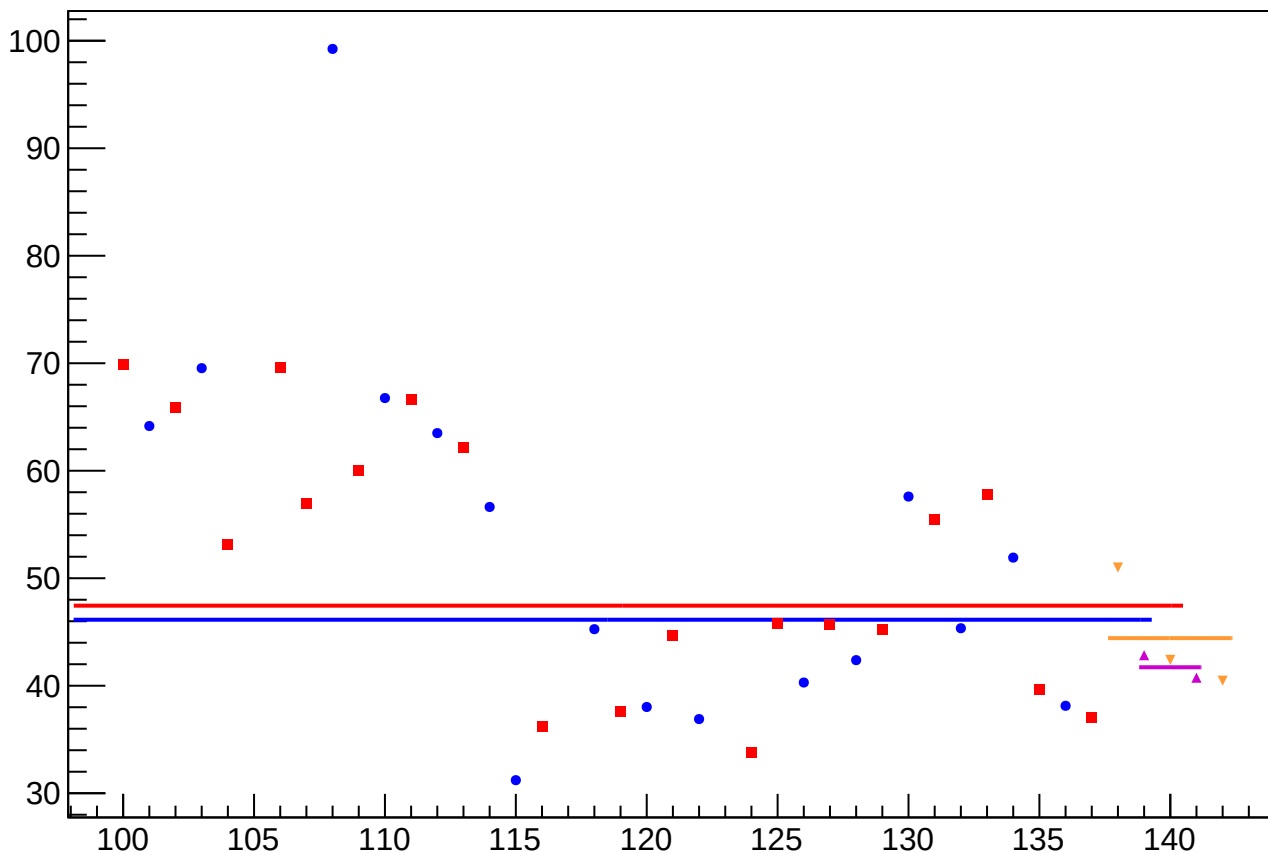
Right: -0.007 ± 0.013 $\chi^2/\text{NDF}: 28.1/34$

In: -0.009 ± 0.016 $\chi^2/\text{NDF}: 22.8/17$

Out: -0.015 ± 0.016 $\chi^2/\text{NDF}: 16.6/21$

All: -0.012 ± 0.011 $\chi^2/\text{NDF}: 39.5/39$

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 46.140 $\pm$ 0.013 χ^2 /NDF: 903251.1/15

Left Out: 44.429 $\pm$ 0.023 χ^2 /NDF: 36382.5/2

Right Out: 47.448 $\pm$ 0.013 χ^2 /NDF: 654687.8/18

Left In: 41.718 $\pm$ 0.023 χ^2 /NDF: 2122.4/1

Left: 43.061 $\pm$ 0.016 χ^2 /NDF: 45615.1/4

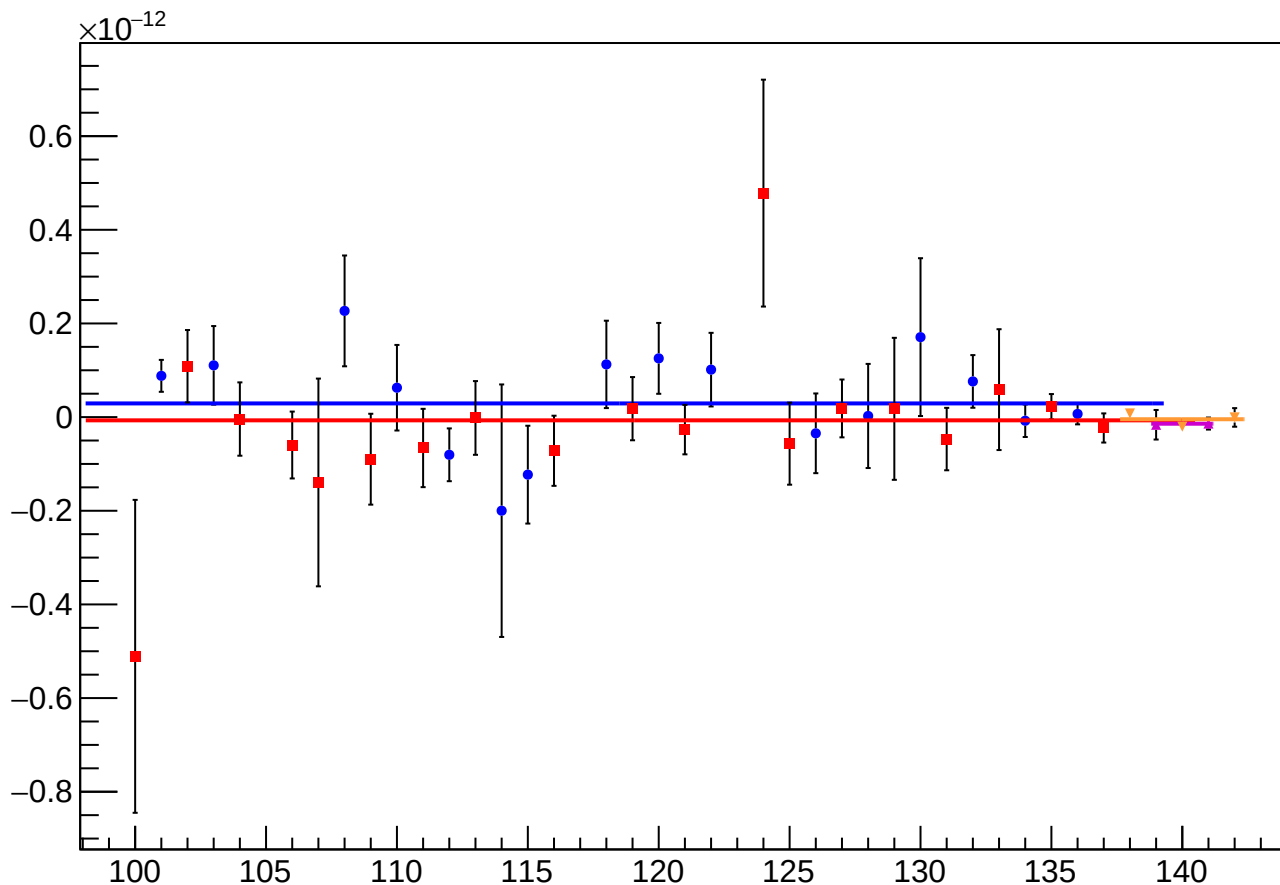
Right: 46.790 $\pm$ 0.009 χ^2 /NDF: 1563199.9/34

In: 45.078 $\pm$ 0.011 χ^2 /NDF: 934388.0/17

Out: 46.727 $\pm$ 0.011 χ^2 /NDF: 704379.6/21

All: 45.897 $\pm$ 0.008 χ^2 /NDF: 1649756.5/39

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 3.9/2

Right Out: -0.000+/-0.000 χ^2/NDF : 14.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 4.4/4

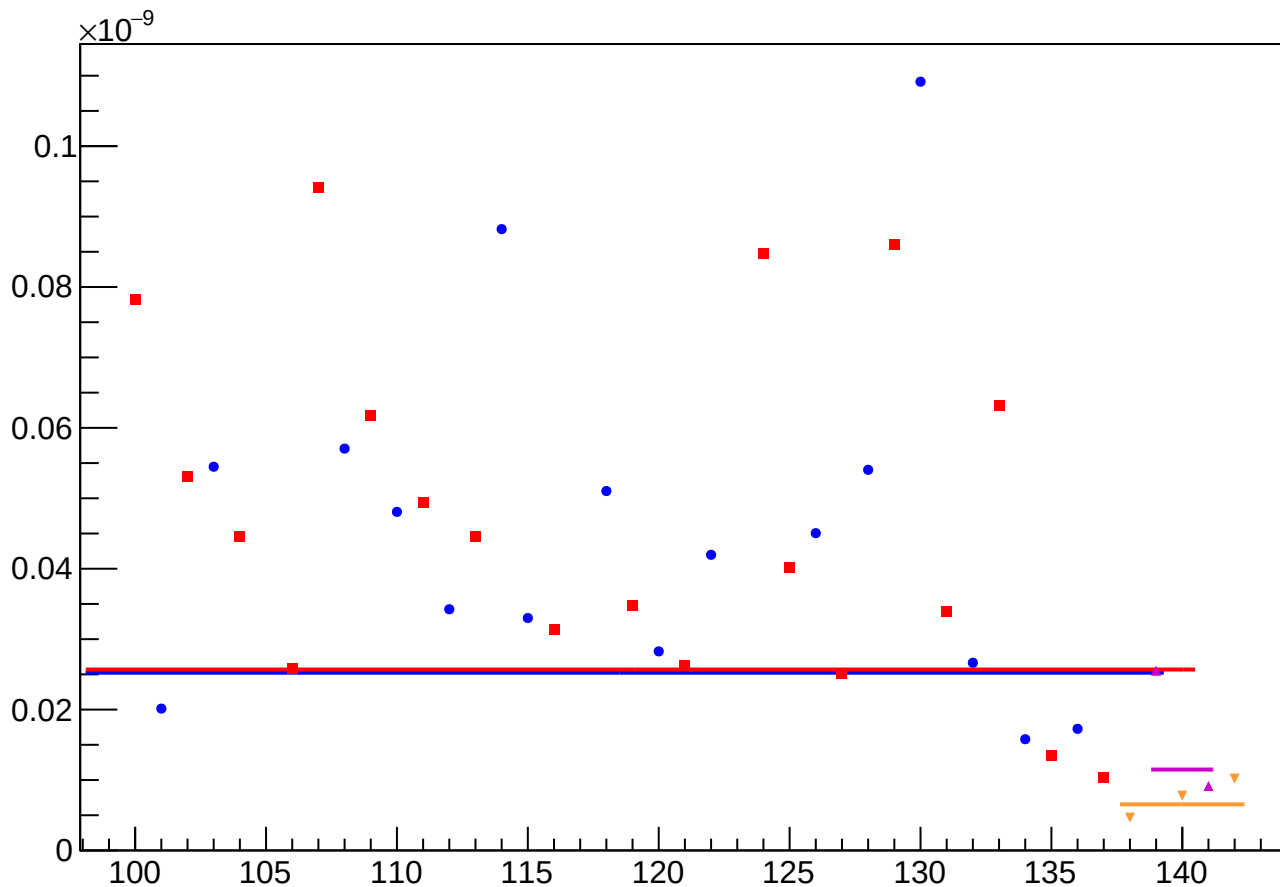
Right: 0.000+/-0.000 χ^2/NDF : 38.5/34

In: 0.000+/-0.000 χ^2/NDF : 26.7/17

Out: -0.000+/-0.000 χ^2/NDF : 18.2/21

All: -0.000+/-0.000 χ^2/NDF : 45.7/39

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2117960.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :170680.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2790840.2/18

Left In: 0.000+/-0.000 χ^2/NDF :461482.5/1

Left: 0.000+/-0.000 χ^2/NDF : 892754.6/4

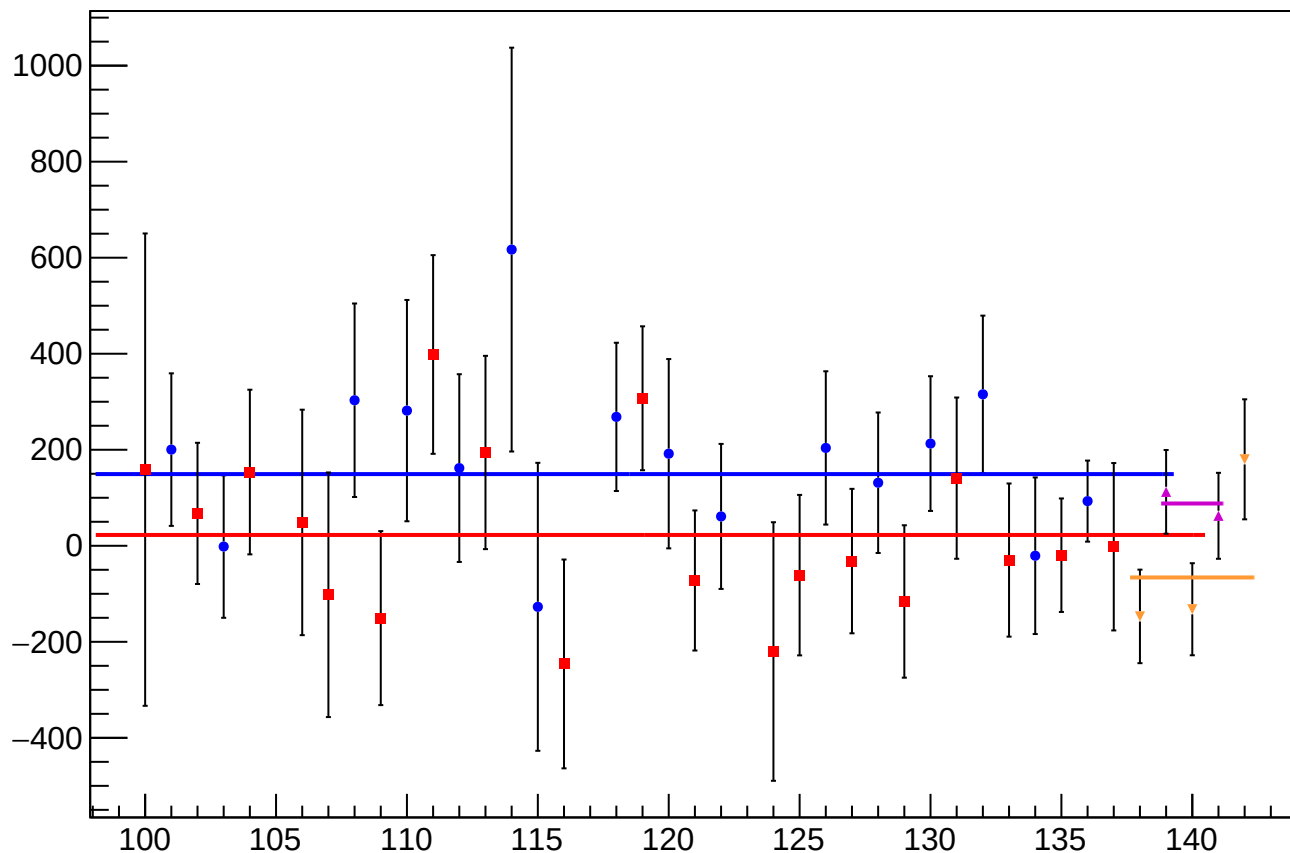
Right: 0.000+/-0.000 χ^2/NDF : 4909837.4/34

In: 0.000+/-0.000 χ^2/NDF :3746018.2/17

Out: 0.000+/-0.000 χ^2/NDF :5881155.6/21

All: 0.000+/-0.000 χ^2/NDF : 10587262.7/39

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 149.303 $\pm$ 39.687 χ^2 /NDF: 8.0/15

Left Out: -65.973 $\pm$ 59.952 χ^2 /NDF:5.0/2

Right Out: 22.549 $\pm$ 40.100 χ^2 /NDF: 14.2/18

Left In: 88.060 $\pm$ 62.441 χ^2 /NDF:0.2/1

Left: 7.913 $\pm$ 43.246 χ^2 /NDF: 8.4/4

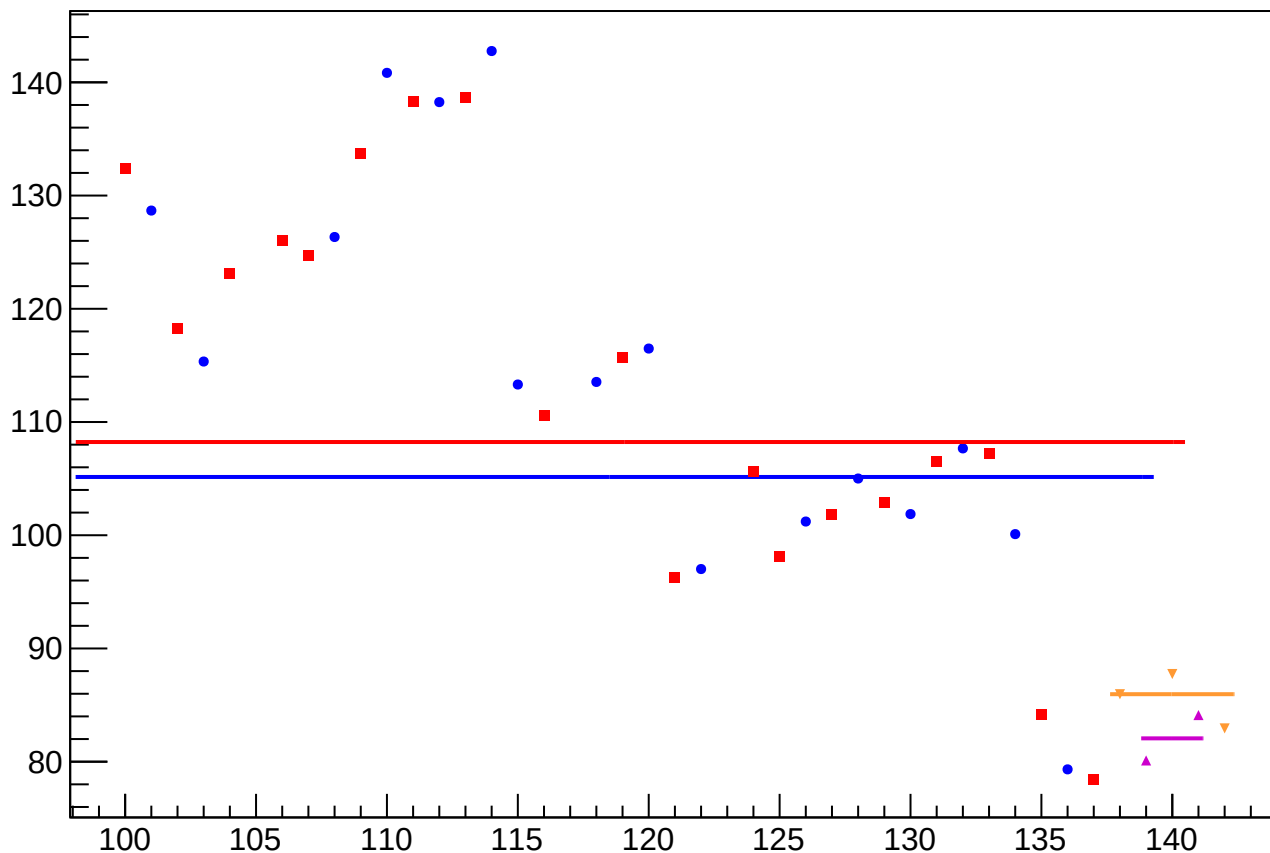
Right: 86.583 $\pm$ 28.208 χ^2 /NDF: 27.3/34

In: 131.681 $\pm$ 33.494 χ^2 /NDF:8.9/17

Out: -4.814 $\pm$ 33.332 χ^2 /NDF:20.8/21

All: 63.102 $\pm$ 23.626 χ^2 /NDF: 38.0/39

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 105.146 $\pm$ 0.028 χ^2 /NDF: 408406.3/15

Left Out: 85.962 $\pm$ 0.042 χ^2 /NDF:1858.8/2

Right Out: 108.233 $\pm$ 0.028 χ^2 /NDF: 349936.1/18

Left In: 82.061 $\pm$ 0.044 χ^2 /NDF:2058.5/1

Left: 84.091 $\pm$ 0.031 χ^2 /NDF: 7979.8/4

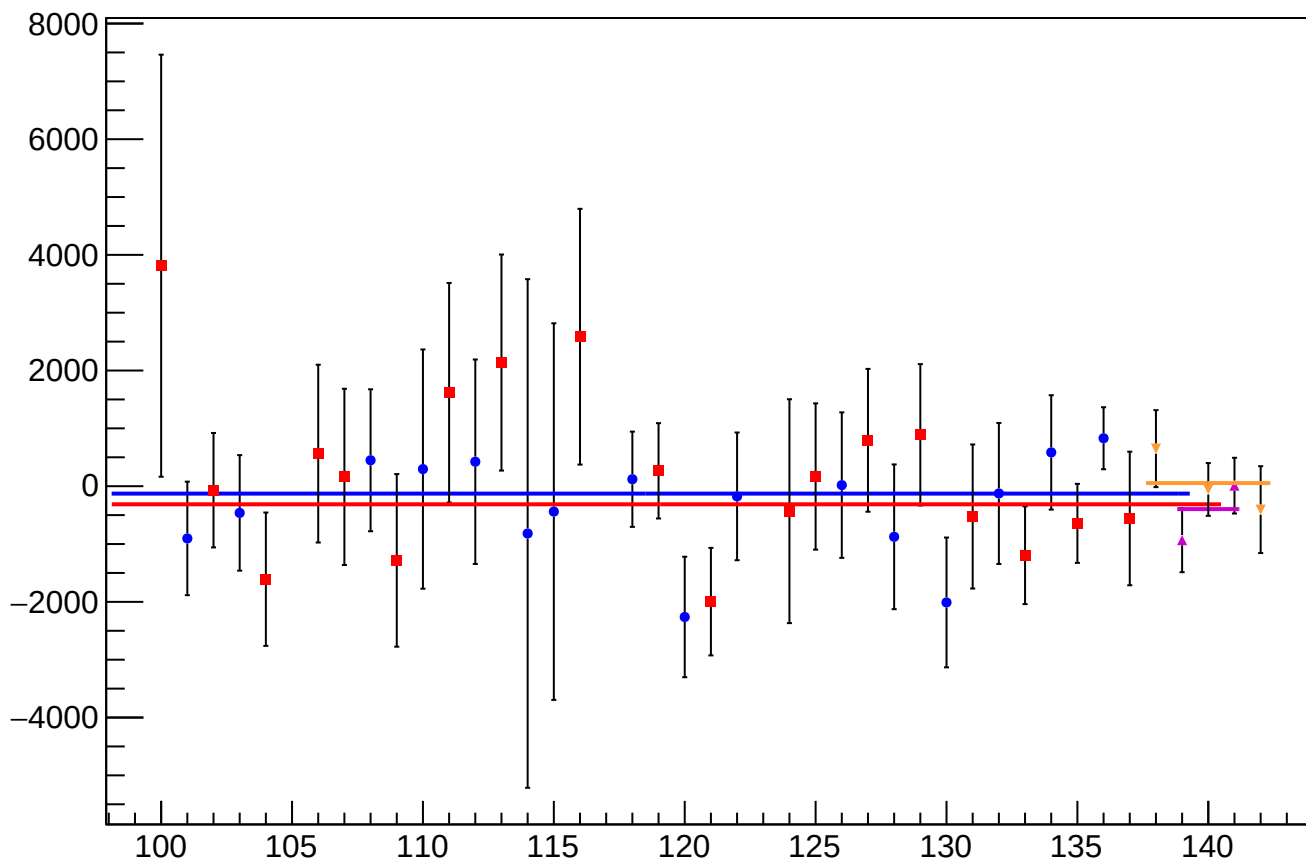
Right: 106.674 $\pm$ 0.020 χ^2 /NDF: 764328.3/34

In: 98.504 $\pm$ 0.024 χ^2 /NDF:605188.2/17

Out: 101.349 $\pm$ 0.024 χ^2 /NDF:542477.2/21

All: 99.933 $\pm$ 0.017 χ^2 /NDF: 1154916.6/39

asym_sam_26_48_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -128.056 $\pm$ 268.611 χ^2 /NDF: 12.3/15

Left Out: 54.032 $\pm$ 336.389 χ^2 /NDF:1.2/2

Right Out: -313.031 $\pm$ 270.131 χ^2 /NDF: 15.0/18

Left In: -395.803 $\pm$ 363.642 χ^2 /NDF:1.6/1

Left: -153.399 $\pm$ 246.936 χ^2 /NDF: 3.7/4

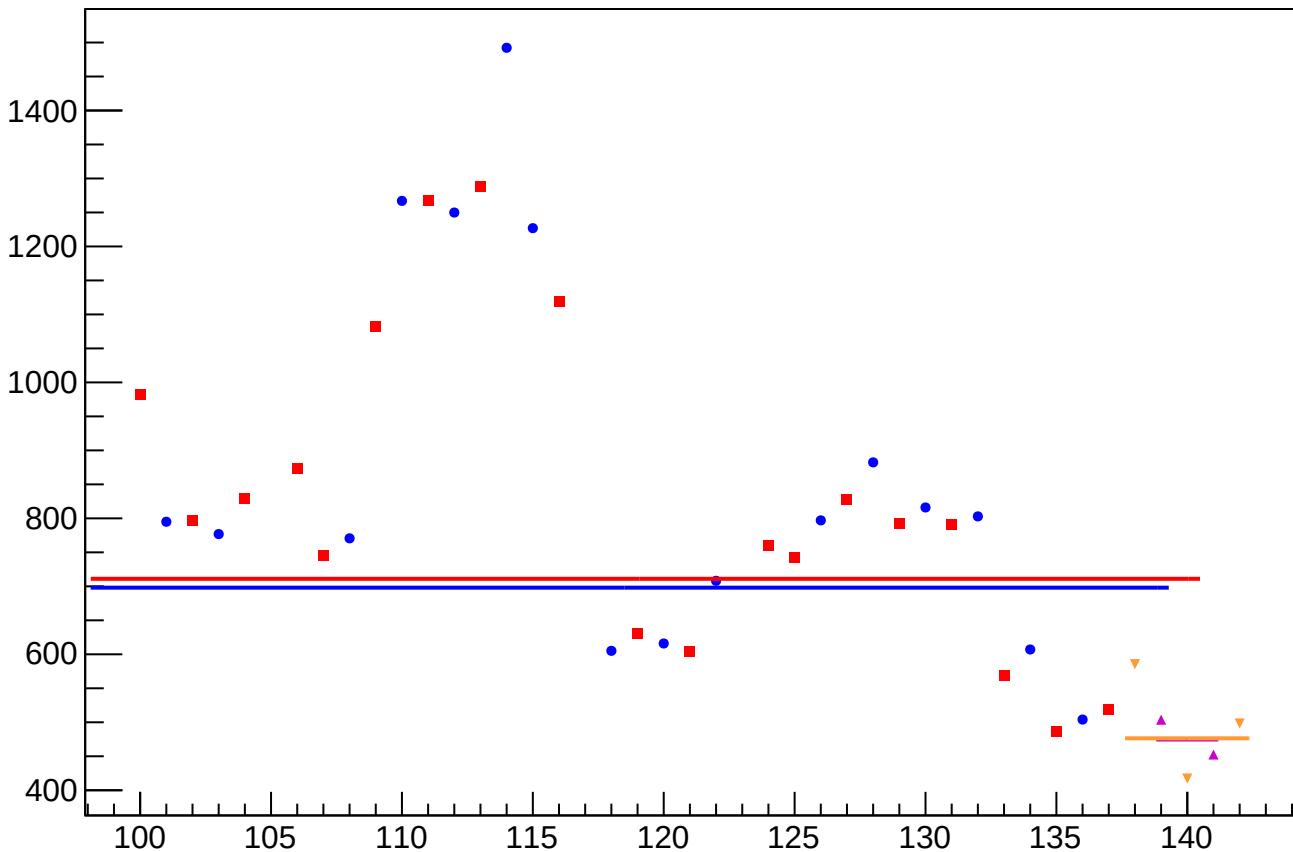
Right: -220.022 $\pm$ 190.472 χ^2 /NDF: 27.5/34

In: -222.575 $\pm$ 216.058 χ^2 /NDF:14.3/17

Out: -169.126 $\pm$ 210.625 χ^2 /NDF:17.0/21

All: -195.170 $\pm$ 150.819 χ^2 /NDF: 31.3/39

asym_sam_26_48_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 698.055+/-0.190 χ^2/NDF : 912851.5/15

Left Out: 476.429+/-0.238 χ^2/NDF : 89144.0/2

Right Out: 711.088+/-0.191 χ^2/NDF : 1035118.4/18

Left In: 474.623+/-0.257 χ^2/NDF : 9742.9/1

Left: 475.597+/-0.175 χ^2/NDF : 98913.5/4

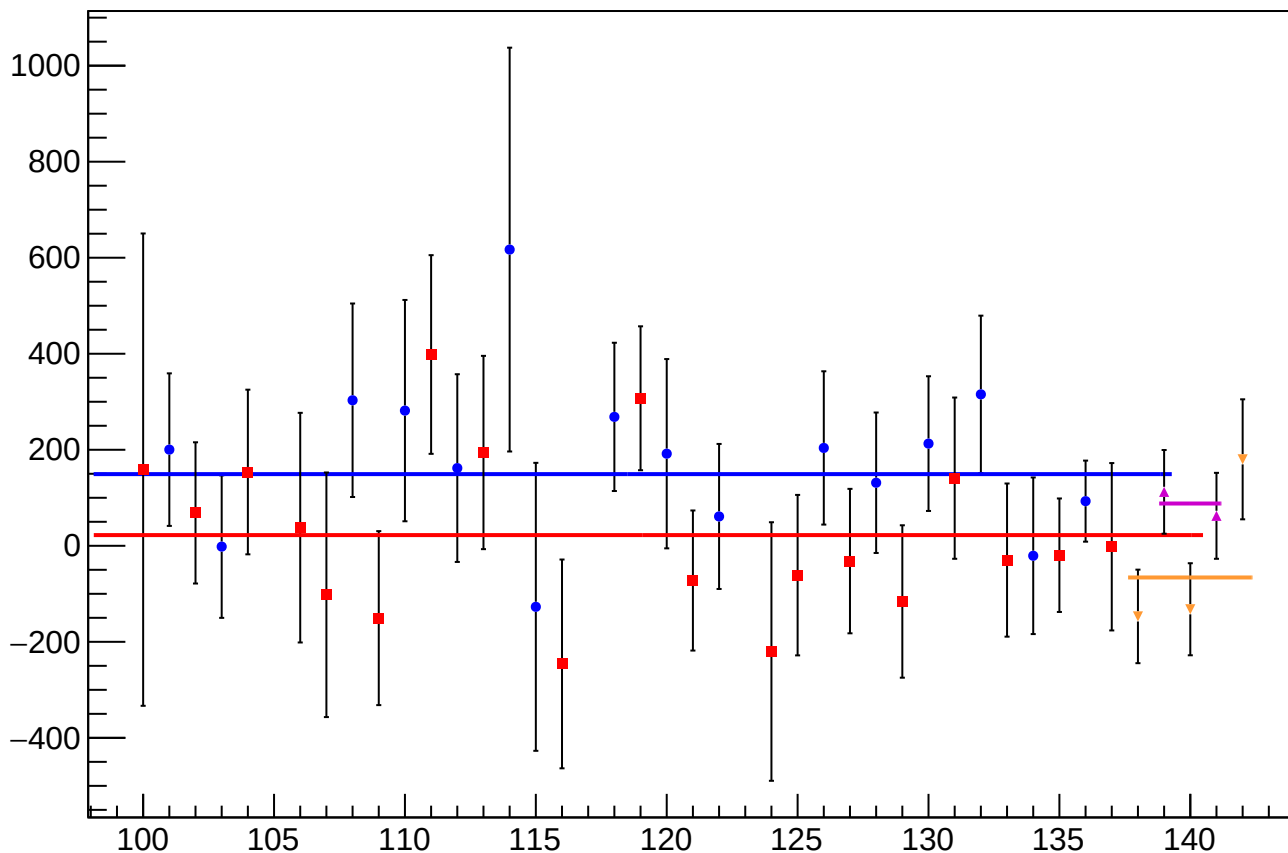
Right: 704.534+/-0.135 χ^2/NDF : 1950310.9/34

In: 619.180+/-0.153 χ^2/NDF : 1411094.1/17

Out: 619.091+/-0.149 χ^2/NDF : 1715946.6/21

All: 619.134+/-0.107 χ^2/NDF : 3127040.8/39

cor_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 149.294 $\pm$ 39.687 χ^2 /NDF: 8.0/15

Left Out: -65.974 $\pm$ 59.952 χ^2 /NDF:5.0/2

Right Out: 22.297 $\pm$ 40.123 χ^2 /NDF: 14.2/18

Left In: 88.063 $\pm$ 62.441 χ^2 /NDF:0.2/1

Left: 7.914 $\pm$ 43.246 χ^2 /NDF: 8.4/4

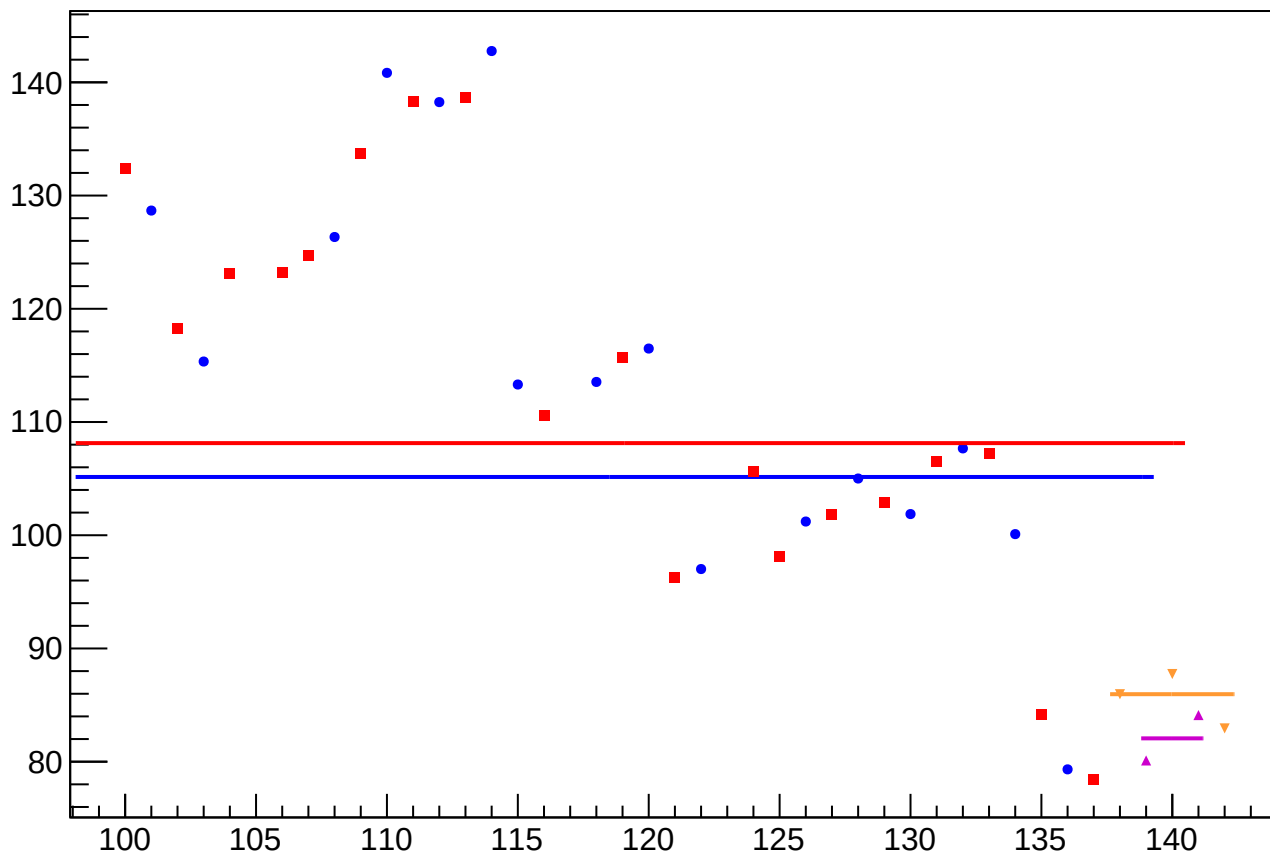
Right: 86.488 $\pm$ 28.216 χ^2 /NDF: 27.3/34

In: 131.675 $\pm$ 33.494 χ^2 /NDF:8.9/17

Out: -5.009 $\pm$ 33.344 χ^2 /NDF:20.8/21

All: 63.027 $\pm$ 23.631 χ^2 /NDF: 38.0/39

cor_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 105.146 $\pm$ 0.028 χ^2/NDF : 408406.5/15

Left Out: 85.962 $\pm$ 0.042 χ^2/NDF :1858.8/2

Right Out: 108.136 $\pm$ 0.028 χ^2/NDF : 346321.9/18

Left In: 82.061 $\pm$ 0.044 χ^2/NDF :2058.5/1

Left: 84.091 $\pm$ 0.031 χ^2/NDF : 7979.8/4

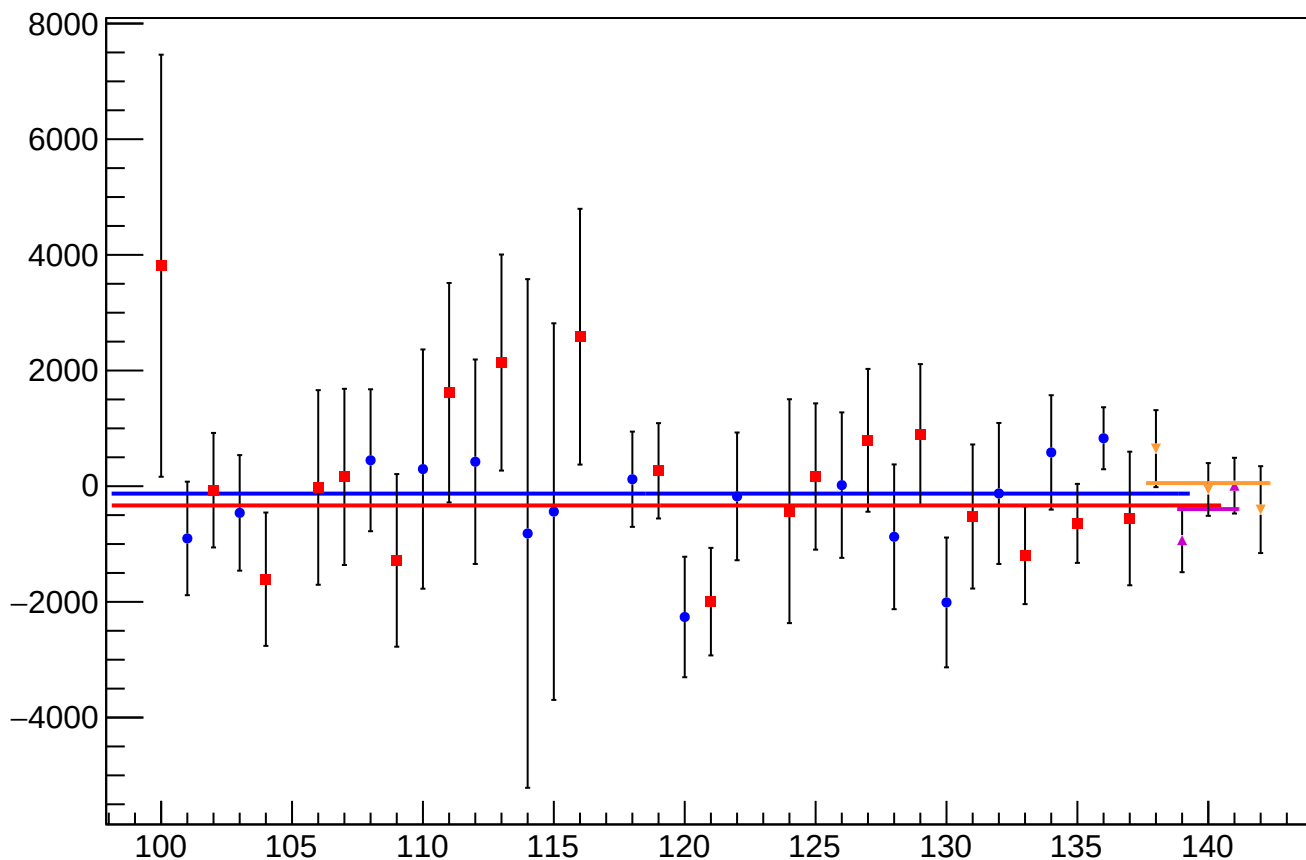
Right: 106.625 $\pm$ 0.020 χ^2/NDF : 760343.1/34

In: 98.504 $\pm$ 0.024 χ^2/NDF :605188.4/17

Out: 101.277 $\pm$ 0.024 χ^2/NDF :537151.6/21

All: 99.897 $\pm$ 0.017 χ^2/NDF : 1149227.2/39

asym_sam_26_48_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -128.047 $\pm$ 268.611 χ^2 /NDF: 12.3/15

Left Out: 54.028 $\pm$ 336.388 χ^2 /NDF:1.2/2

Right Out: -332.665 $\pm$ 270.835 χ^2 /NDF: 14.7/18

Left In: -395.806 $\pm$ 363.642 χ^2 /NDF:1.6/1

Left: -153.403 $\pm$ 246.936 χ^2 /NDF: 3.7/4

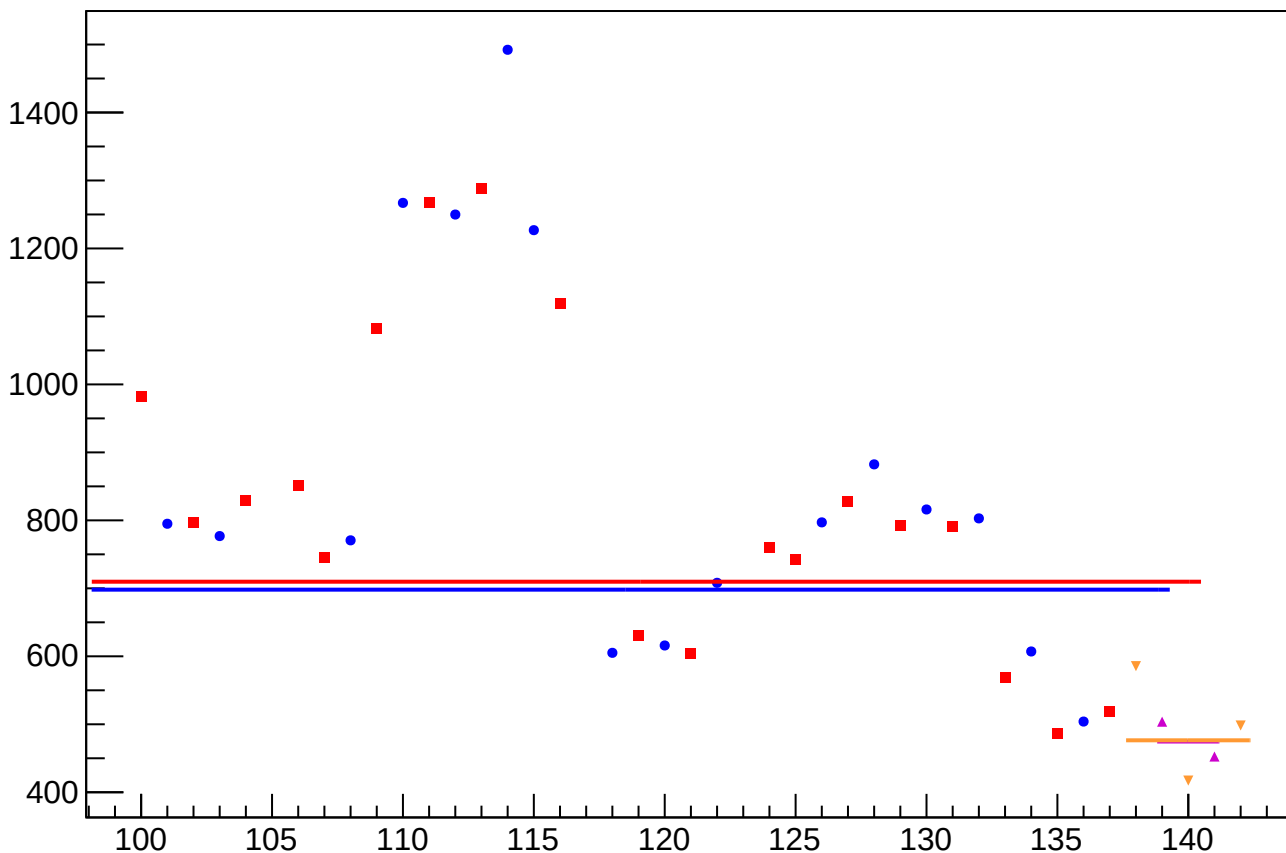
Right: -229.512 $\pm$ 190.718 χ^2 /NDF: 27.3/34

In: -222.570 $\pm$ 216.058 χ^2 /NDF:14.3/17

Out: -180.583 $\pm$ 210.958 χ^2 /NDF:16.7/21

All: -201.075 $\pm$ 150.941 χ^2 /NDF: 31.1/39

asym_sam_26_48_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 698.055+/-0.190 χ^2/NDF : 912861.2/15

Left Out: 476.429+/-0.238 χ^2/NDF : 89143.7/2

Right Out: 709.748+/-0.192 χ^2/NDF : 1027114.2/18

Left In: 474.624+/-0.257 χ^2/NDF : 9742.6/1

Left: 475.597+/-0.175 χ^2/NDF : 98912.9/4

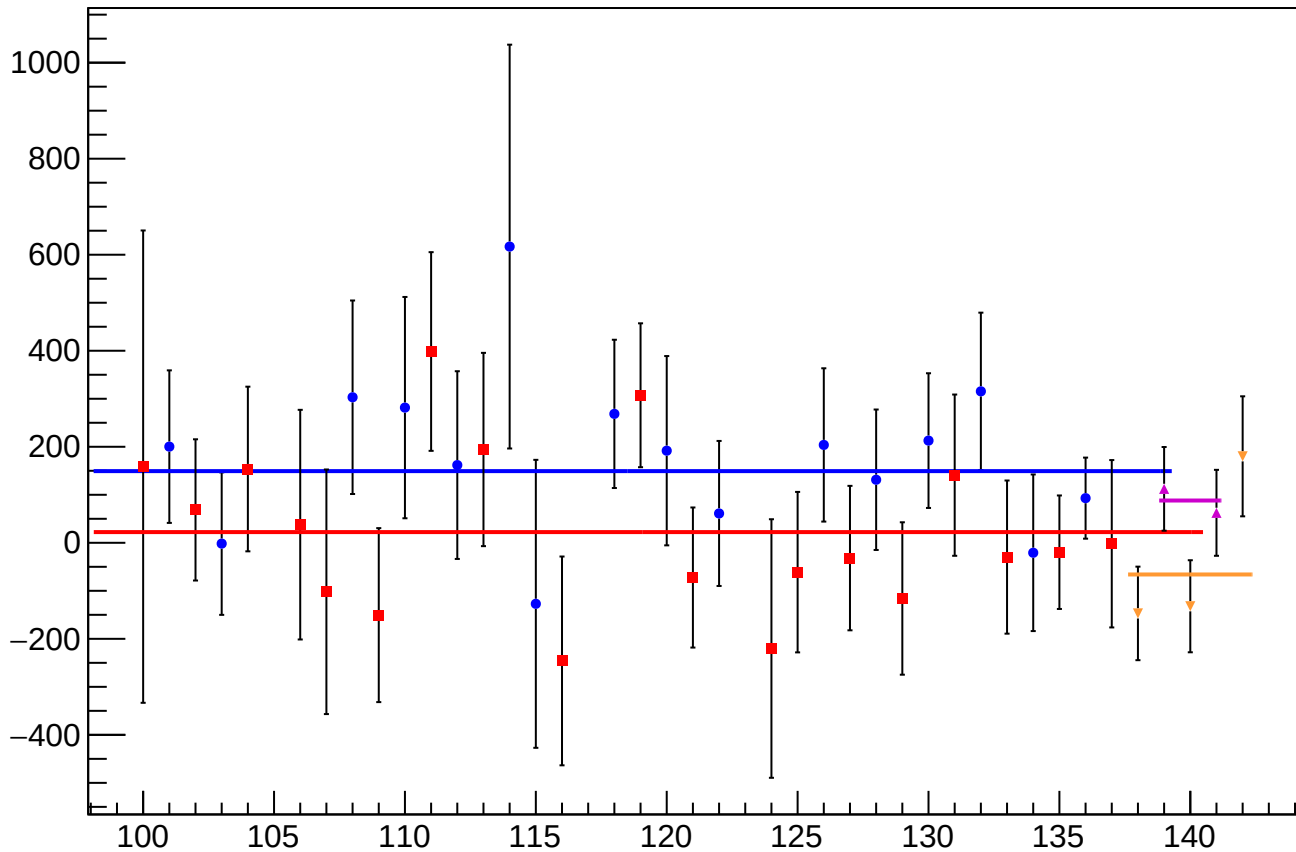
Right: 703.854+/-0.135 χ^2/NDF : 1941854.8/34

In: 619.180+/-0.153 χ^2/NDF : 1411104.5/17

Out: 617.987+/-0.149 χ^2/NDF : 1700013.0/21

All: 618.569+/-0.107 χ^2/NDF : 3111148.7/39

eigen_cor_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 149.294 $\pm$ 39.687 χ^2 /NDF: 8.0/15

Left Out: -65.974 $\pm$ 59.952 χ^2 /NDF:5.0/2

Right Out: 22.297 $\pm$ 40.123 χ^2 /NDF: 14.2/18

Left In: 88.063 $\pm$ 62.441 χ^2 /NDF:0.2/1

Left: 7.914 $\pm$ 43.246 χ^2 /NDF: 8.4/4

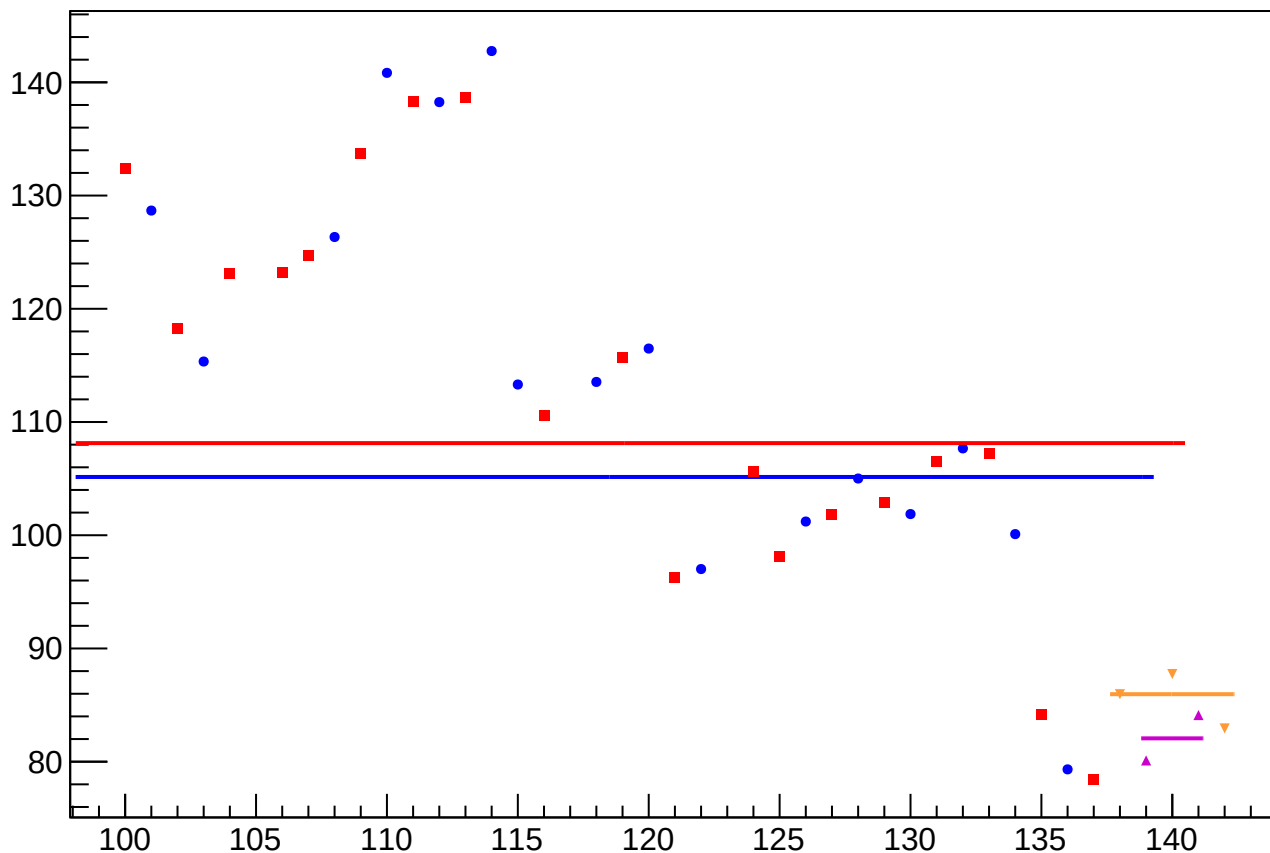
Right: 86.488 $\pm$ 28.216 χ^2 /NDF: 27.3/34

In: 131.675 $\pm$ 33.494 χ^2 /NDF:8.9/17

Out: -5.009 $\pm$ 33.344 χ^2 /NDF:20.8/21

All: 63.027 $\pm$ 23.631 χ^2 /NDF: 38.0/39

eigen_cor_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 105.146 $\pm$ 0.028 χ^2 /NDF: 408406.5/15

Left Out: 85.962 $\pm$ 0.042 χ^2 /NDF:1858.8/2

Right Out: 108.136 $\pm$ 0.028 χ^2 /NDF: 346321.9/18

Left In: 82.061 $\pm$ 0.044 χ^2 /NDF:2058.5/1

Left: 84.091 $\pm$ 0.031 χ^2 /NDF: 7979.8/4

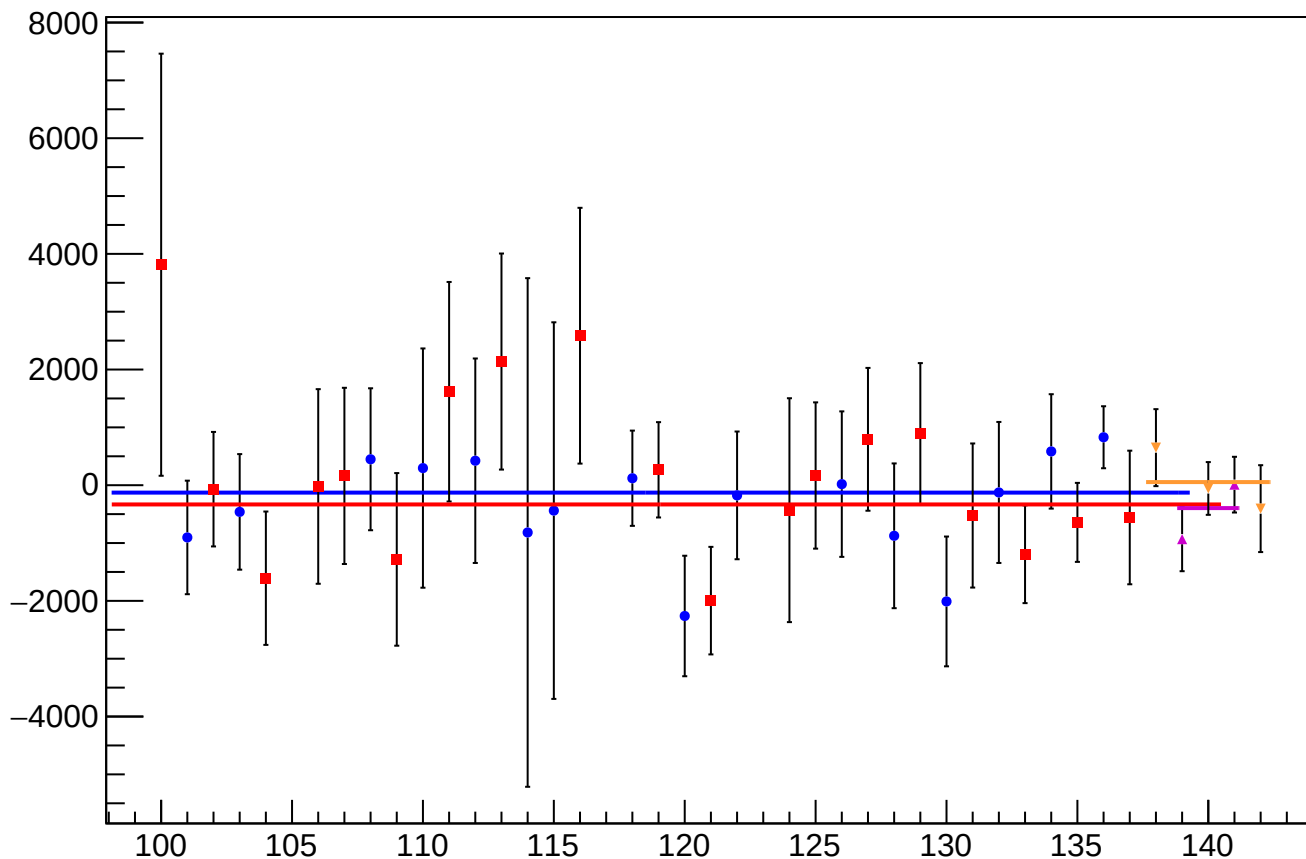
Right: 106.625 $\pm$ 0.020 χ^2 /NDF: 760343.1/34

In: 98.504 $\pm$ 0.024 χ^2 /NDF:605188.4/17

Out: 101.277 $\pm$ 0.024 χ^2 /NDF:537151.6/21

All: 99.897 $\pm$ 0.017 χ^2 /NDF: 1149227.2/39

asym_sam_26_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -128.047 ± 268.611 χ^2/NDF : 12.3/15

Left Out: 54.028 ± 336.388 χ^2/NDF : 1.2/2

Right Out: -332.665 ± 270.835 χ^2/NDF : 14.7/18

Left In: -395.806 ± 363.642 χ^2/NDF : 1.6/1

Left: -153.403 ± 246.936 χ^2/NDF : 3.7/4

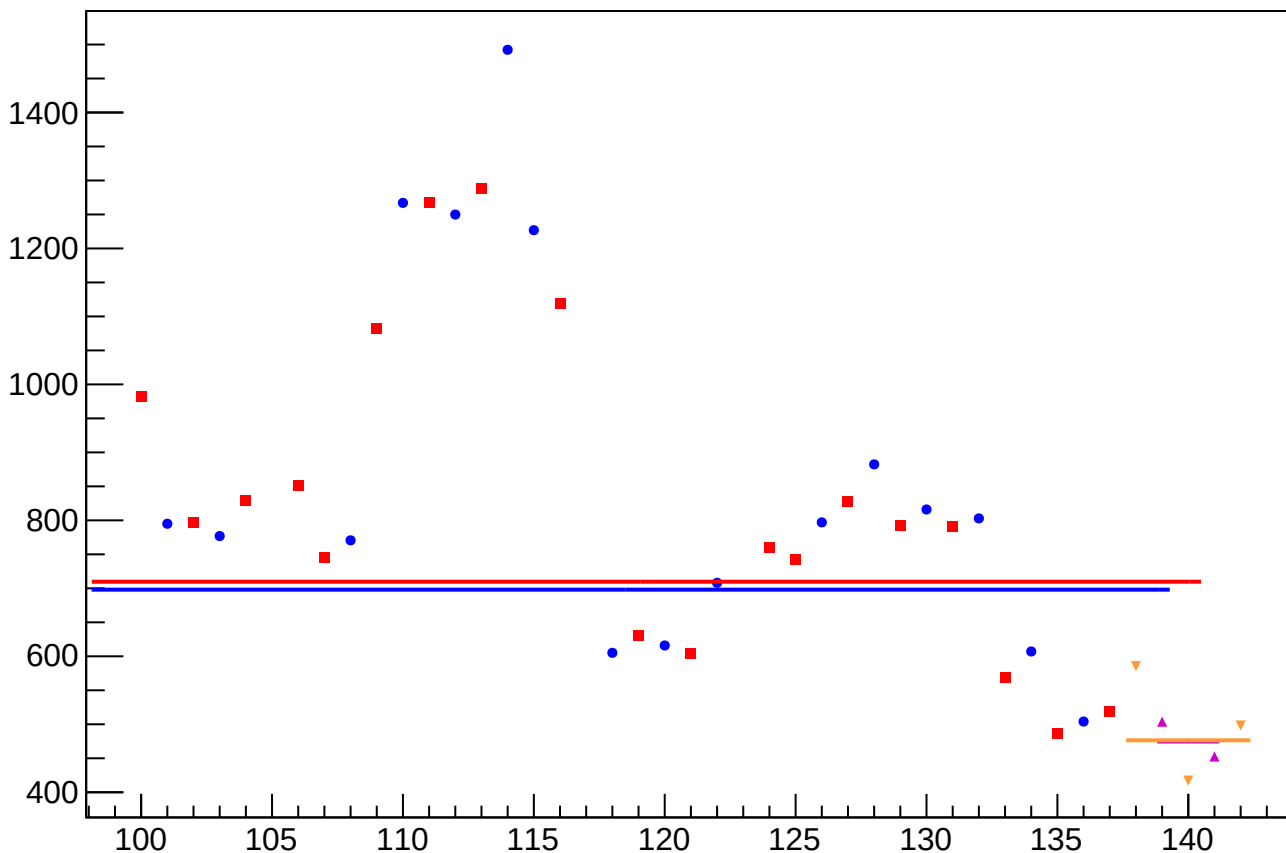
Right: -229.512 ± 190.718 χ^2/NDF : 27.3/34

In: -222.570 ± 216.058 χ^2/NDF : 14.3/17

Out: -180.583 ± 210.958 χ^2/NDF : 16.7/21

All: -201.075 ± 150.941 χ^2/NDF : 31.1/39

asym_sam_26_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 698.055+/-0.190 χ^2/NDF : 912861.2/15

Left Out: 476.429+/-0.238 χ^2/NDF : 89143.7/2

Right Out: 709.748+/-0.192 χ^2/NDF : 1027114.2/18

Left In: 474.624+/-0.257 χ^2/NDF : 9742.6/1

Left: 475.597+/-0.175 χ^2/NDF : 98912.9/4

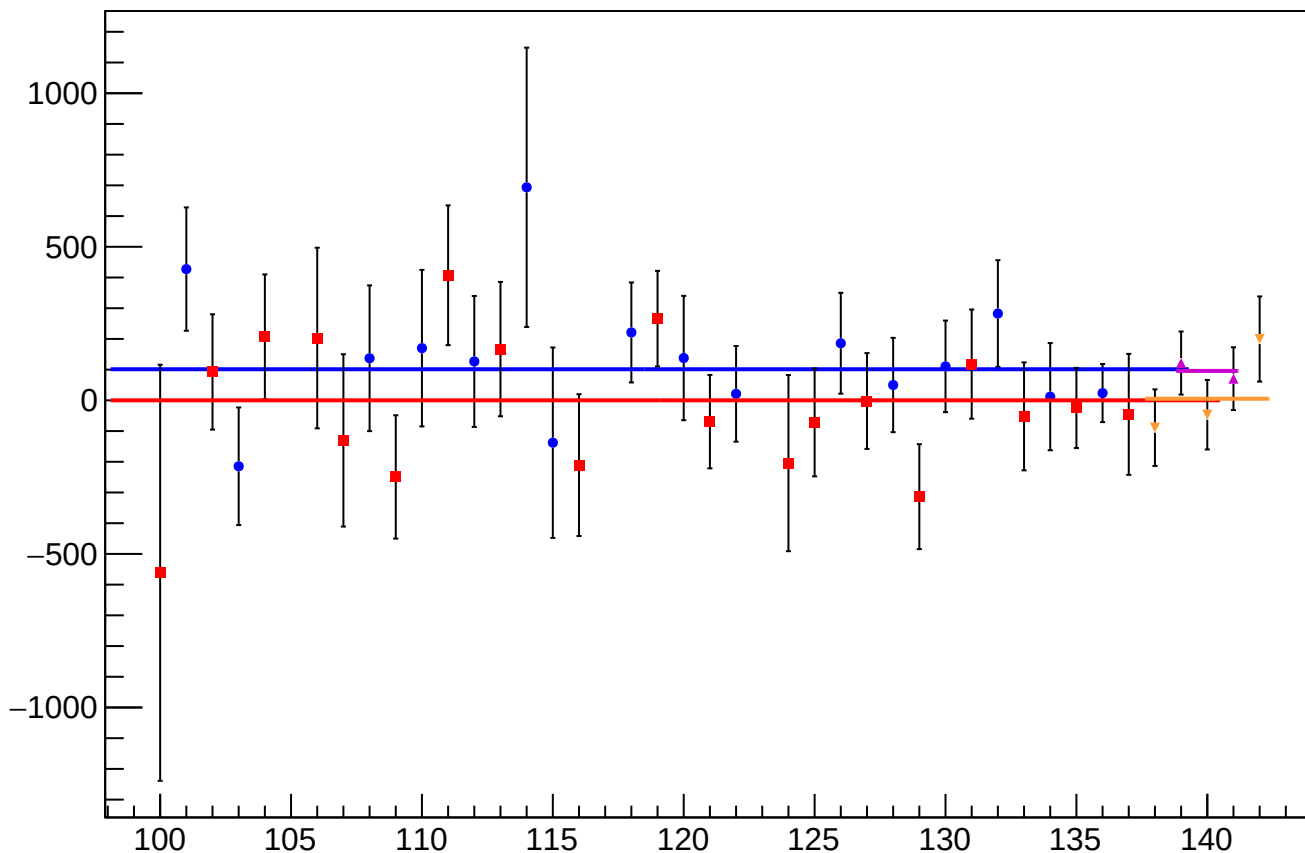
Right: 703.854+/-0.135 χ^2/NDF : 1941854.8/34

In: 619.180+/-0.153 χ^2/NDF : 1411104.5/17

Out: 617.987+/-0.149 χ^2/NDF : 1700013.0/21

All: 618.569+/-0.107 χ^2/NDF : 3111148.7/39

dit_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 101.281 $\pm$ 43.510 χ^2 /NDF: 11.0/15

Left Out: 5.225 $\pm$ 71.709 χ^2 /NDF:2.7/2

Right Out: 0.125 $\pm$ 44.035 χ^2 /NDF: 16.6/18

Left In: 95.898 $\pm$ 72.449 χ^2 /NDF:0.1/1

Left: 50.096 $\pm$ 50.965 χ^2 /NDF: 3.7/4

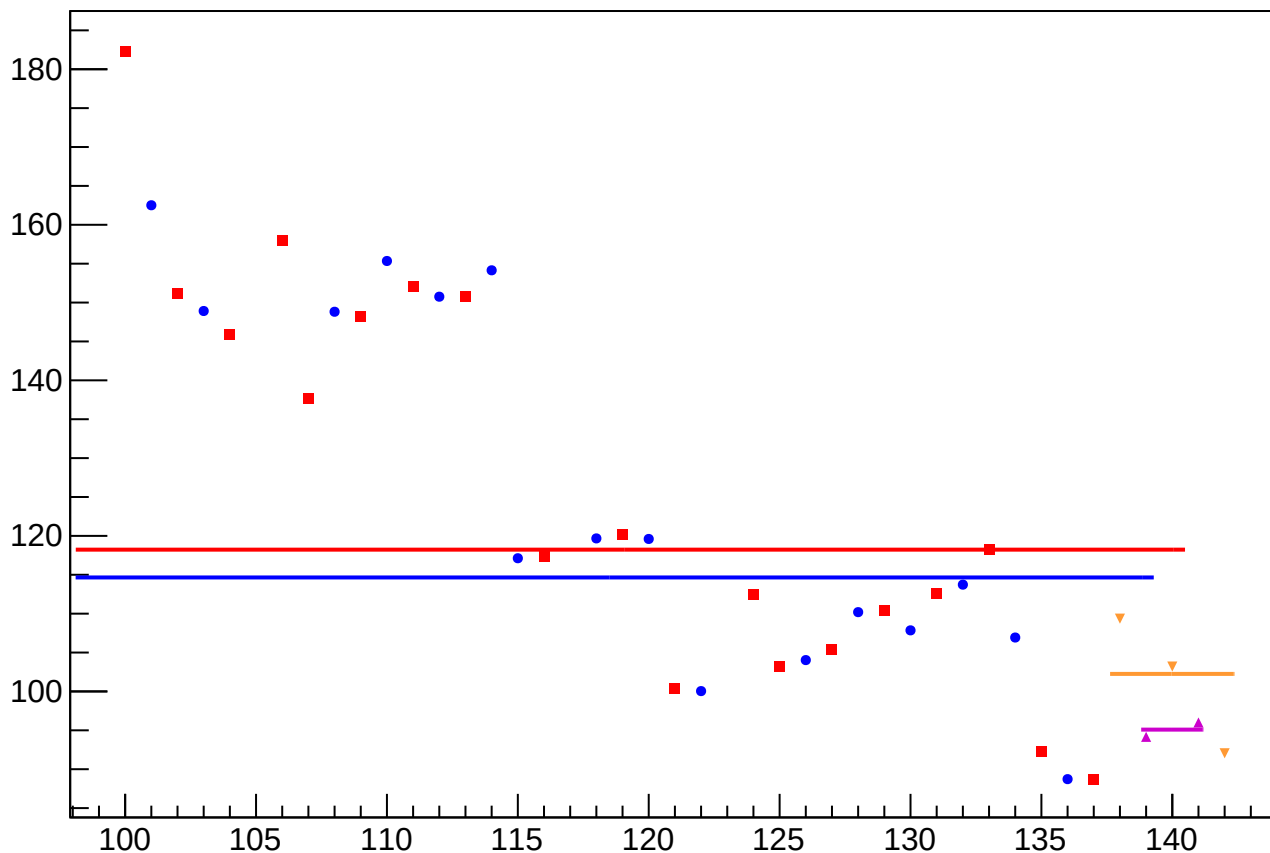
Right: 51.310 $\pm$ 30.950 χ^2 /NDF: 30.3/34

In: 99.854 $\pm$ 37.300 χ^2 /NDF:11.1/17

Out: 1.522 $\pm$ 37.524 χ^2 /NDF:19.4/21

All: 50.983 $\pm$ 26.454 χ^2 /NDF: 33.9/39

dit_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 114.655 $\pm$ 0.031 χ^2/NDF : 531976.2/15

Left Out: 102.253 $\pm$ 0.051 χ^2/NDF : 17471.1/2

Right Out: 118.230 $\pm$ 0.031 χ^2/NDF : 483407.4/18

Left In: 95.090 $\pm$ 0.051 χ^2/NDF : 323.8/1

Left: 98.708 $\pm$ 0.036 χ^2/NDF : 27672.6/4

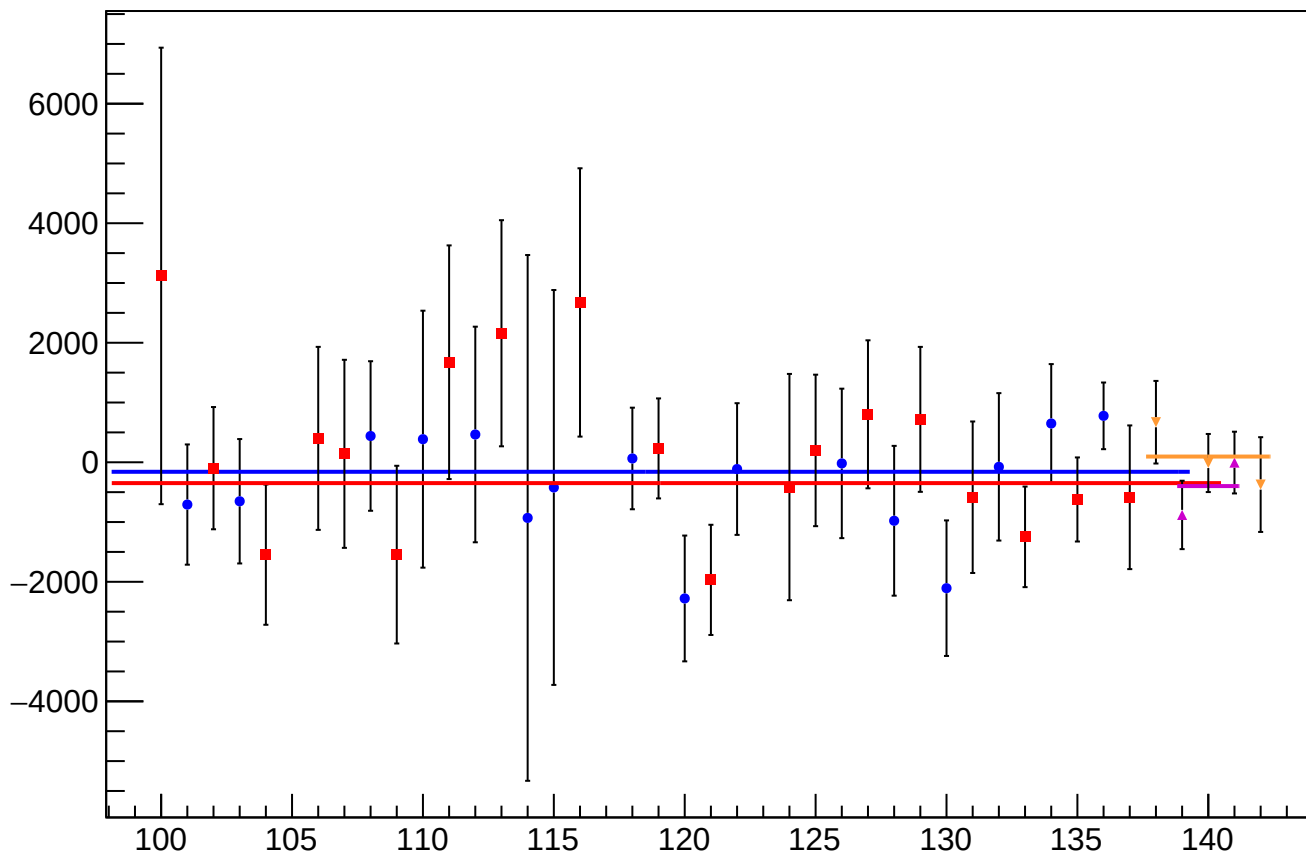
Right: 116.421 $\pm$ 0.022 χ^2/NDF : 1022057.2/34

In: 109.469 $\pm$ 0.026 χ^2/NDF : 639493.8/17

Out: 113.855 $\pm$ 0.027 χ^2/NDF : 572975.5/21

All: 111.649 $\pm$ 0.019 χ^2/NDF : 1226218.3/39

asym_sam_26_48_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -159.110 $\pm$ 274.558 χ^2 /NDF: 12.0/15

Left Out: 95.817 $\pm$ 355.389 χ^2 /NDF:1.1/2

Right Out: -348.528 $\pm$ 273.595 χ^2 /NDF: 14.3/18

Left In: -398.222 $\pm$ 383.436 χ^2 /NDF:1.3/1

Left: -132.475 $\pm$ 260.650 χ^2 /NDF: 3.3/4

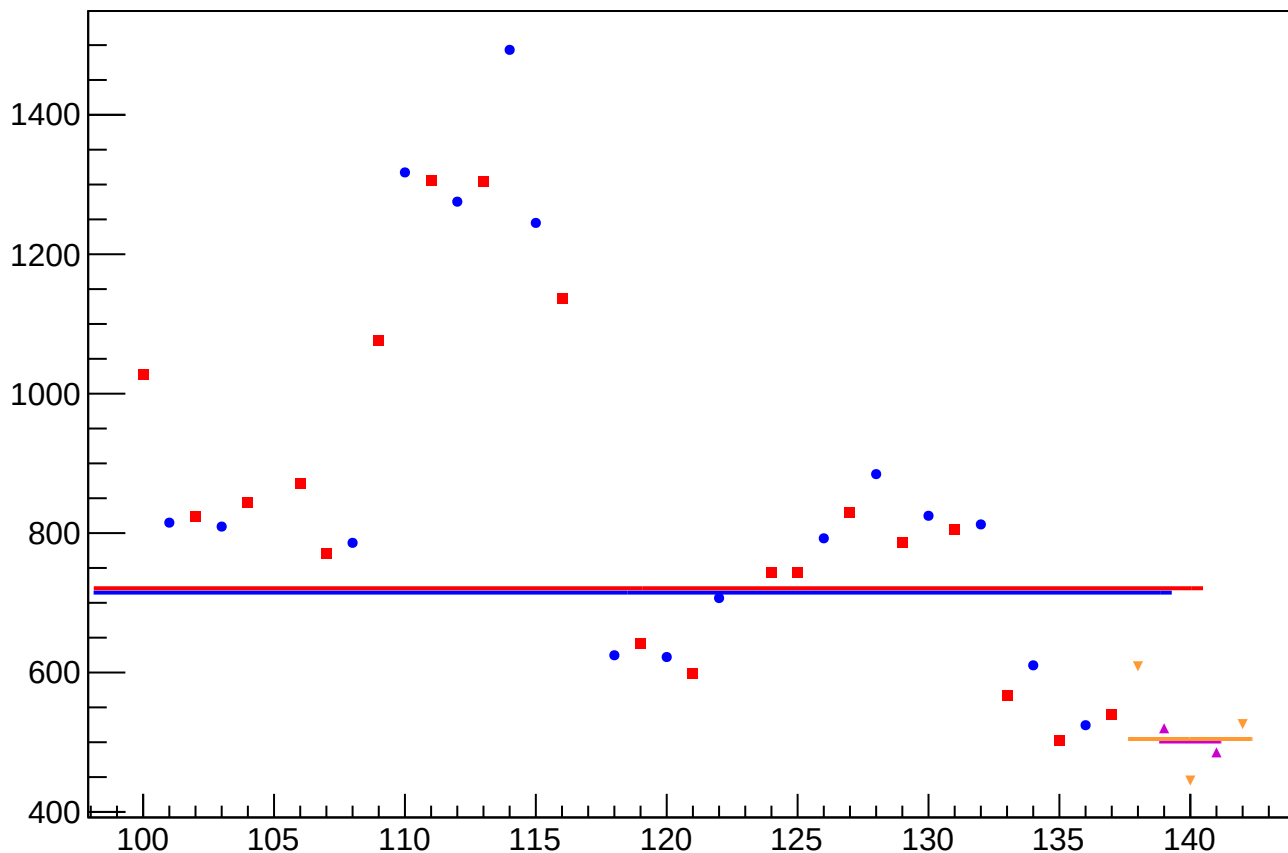
Right: -254.152 $\pm$ 193.800 χ^2 /NDF: 26.5/34

In: -240.155 $\pm$ 223.231 χ^2 /NDF:13.5/17

Out: -183.178 $\pm$ 216.794 χ^2 /NDF:16.4/21

All: -210.833 $\pm$ 155.522 χ^2 /NDF: 29.9/39

asym_sam_26_48_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 714.666 $\pm$ 0.194 χ^2 /NDF: 876217.1/15

Left Out: 504.654 $\pm$ 0.251 χ^2 /NDF: 77055.2/2

Right Out: 720.885 $\pm$ 0.193 χ^2 /NDF: 1018435.1/18

Left In: 501.012 $\pm$ 0.271 χ^2 /NDF: 4012.4/1

Left: 502.971 $\pm$ 0.184 χ^2 /NDF: 81164.6/4

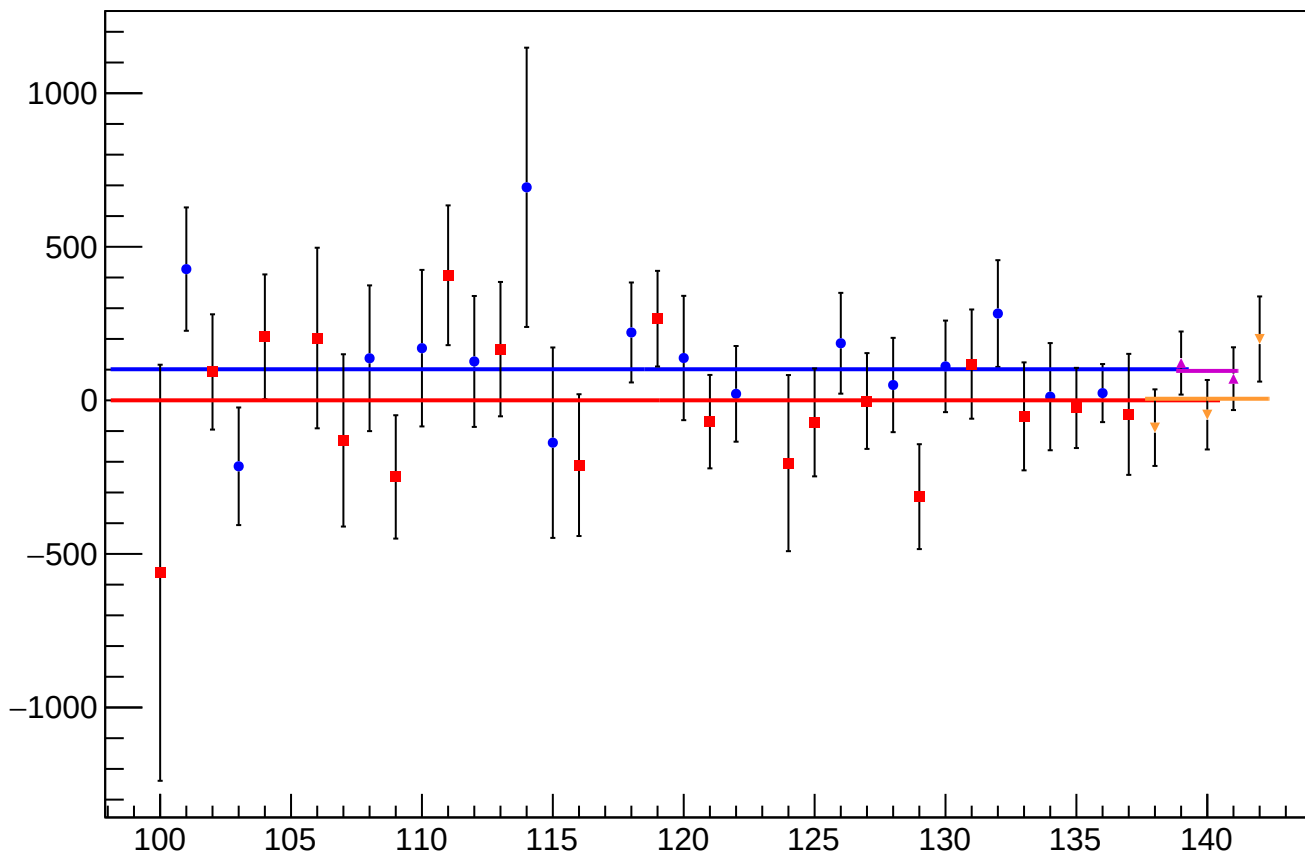
Right: 717.786 $\pm$ 0.137 χ^2 /NDF: 1895167.0/34

In: 642.250 $\pm$ 0.158 χ^2 /NDF: 1290724.6/17

Out: 640.421 $\pm$ 0.153 χ^2 /NDF: 1560361.4/21

All: 641.309 $\pm$ 0.110 χ^2 /NDF: 2851155.2/39

eigen_dit_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 101.278 $\pm$ 43.510 χ^2 /NDF: 11.0/15

Left Out: 5.224 $\pm$ 71.709 χ^2 /NDF:2.7/2

Right Out: 0.125 $\pm$ 44.035 χ^2 /NDF: 16.6/18

Left In: 95.899 $\pm$ 72.449 χ^2 /NDF:0.1/1

Left: 50.095 $\pm$ 50.965 χ^2 /NDF: 3.7/4

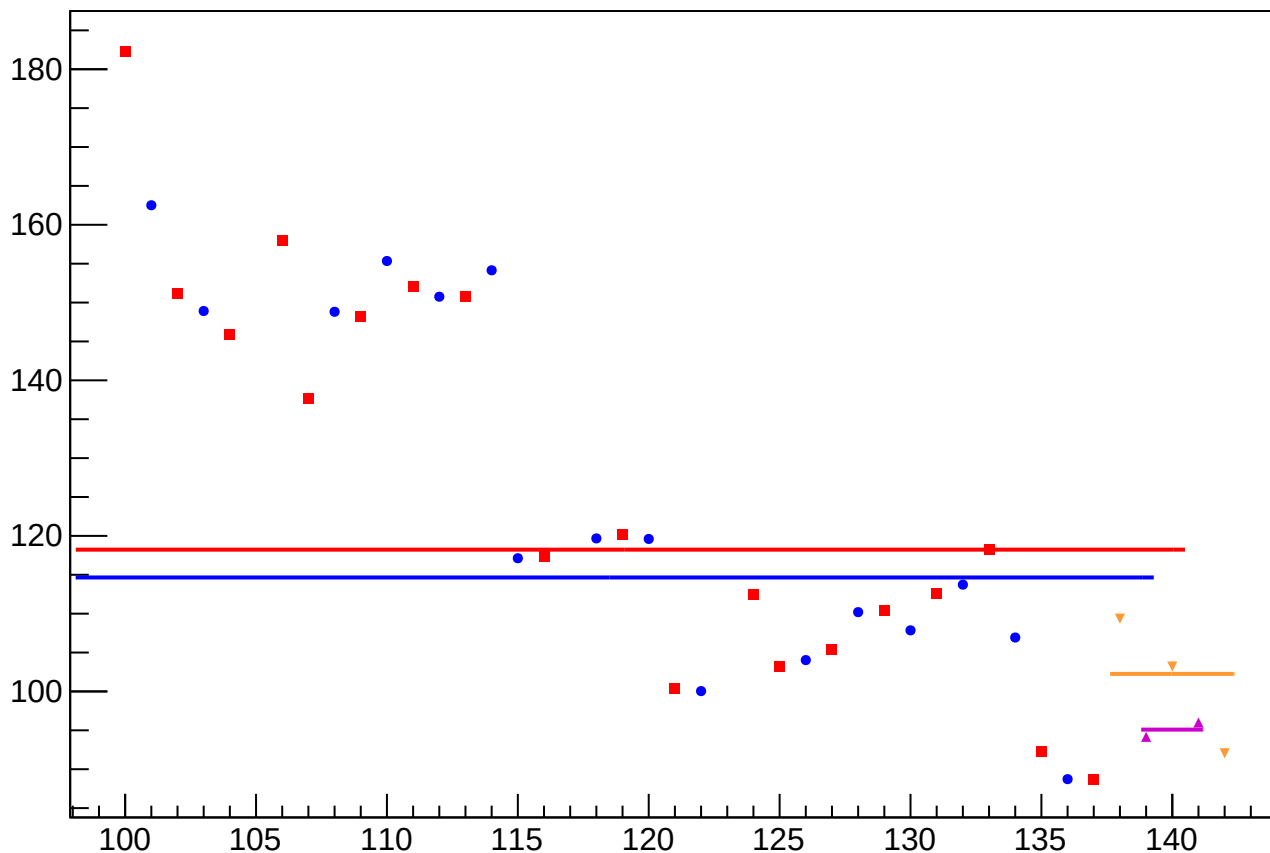
Right: 51.308 $\pm$ 30.950 χ^2 /NDF: 30.3/34

In: 99.852 $\pm$ 37.300 χ^2 /NDF:11.1/17

Out: 1.521 $\pm$ 37.524 χ^2 /NDF:19.4/21

All: 50.982 $\pm$ 26.454 χ^2 /NDF: 33.9/39

eigen_dit_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 114.655 $\pm$ 0.031 χ^2/NDF : 531962.9/15

Left Out: 102.254 $\pm$ 0.051 χ^2/NDF : 17470.6/2

Right Out: 118.230 $\pm$ 0.031 χ^2/NDF : 483401.1/18

Left In: 95.090 $\pm$ 0.051 χ^2/NDF : 323.9/1

Left: 98.708 $\pm$ 0.036 χ^2/NDF : 27672.3/4

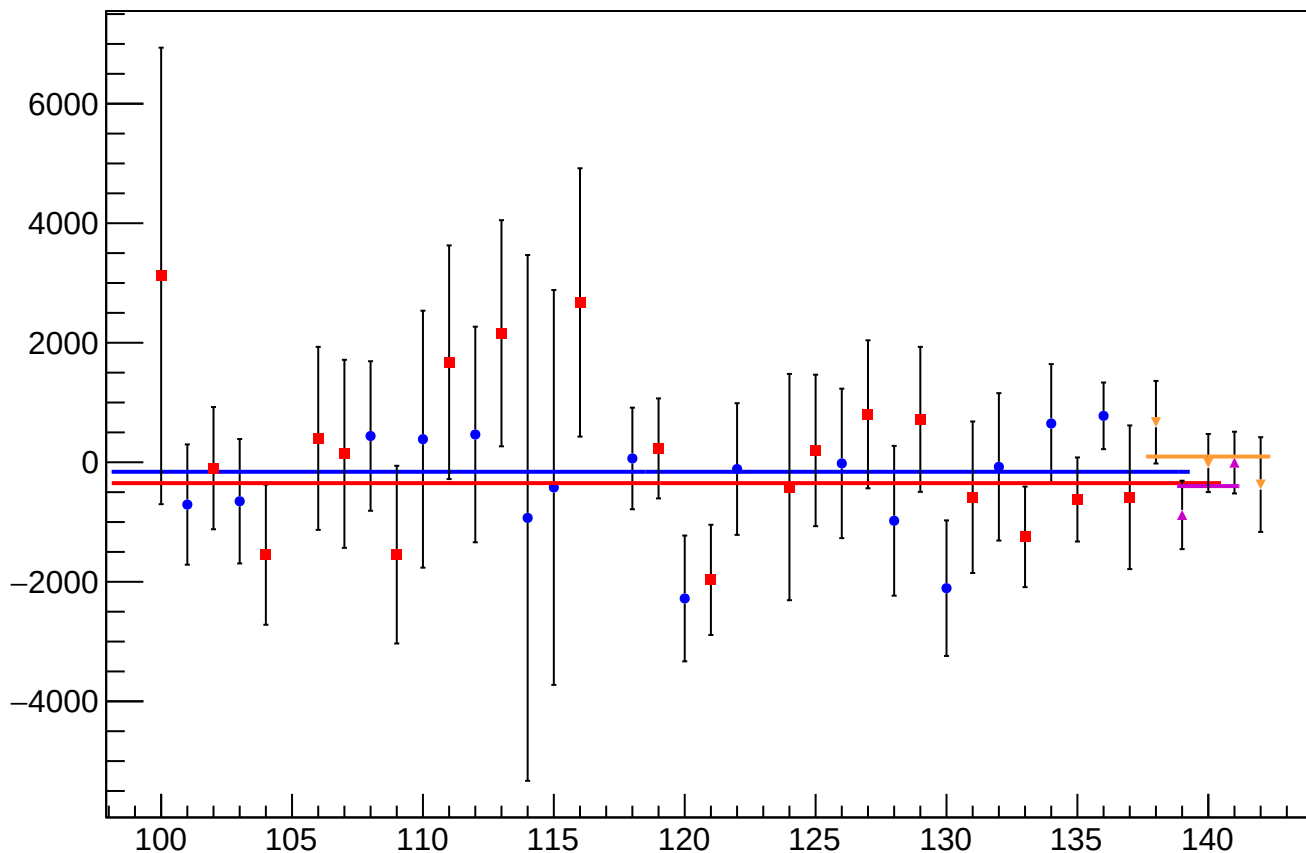
Right: 116.421 $\pm$ 0.022 χ^2/NDF : 1022036.9/34

In: 109.469 $\pm$ 0.026 χ^2/NDF : 639480.7/17

Out: 113.855 $\pm$ 0.027 χ^2/NDF : 572967.2/21

All: 111.649 $\pm$ 0.019 χ^2/NDF : 1226196.2/39

asym_sam_26_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -159.112 ± 274.558 χ^2/NDF : 12.0/15

Left Out: 95.816 ± 355.389 χ^2/NDF : 1.1/2

Right Out: -348.528 ± 273.595 χ^2/NDF : 14.3/18

Left In: -398.222 ± 383.437 χ^2/NDF : 1.3/1

Left: -132.476 ± 260.650 χ^2/NDF : 3.3/4

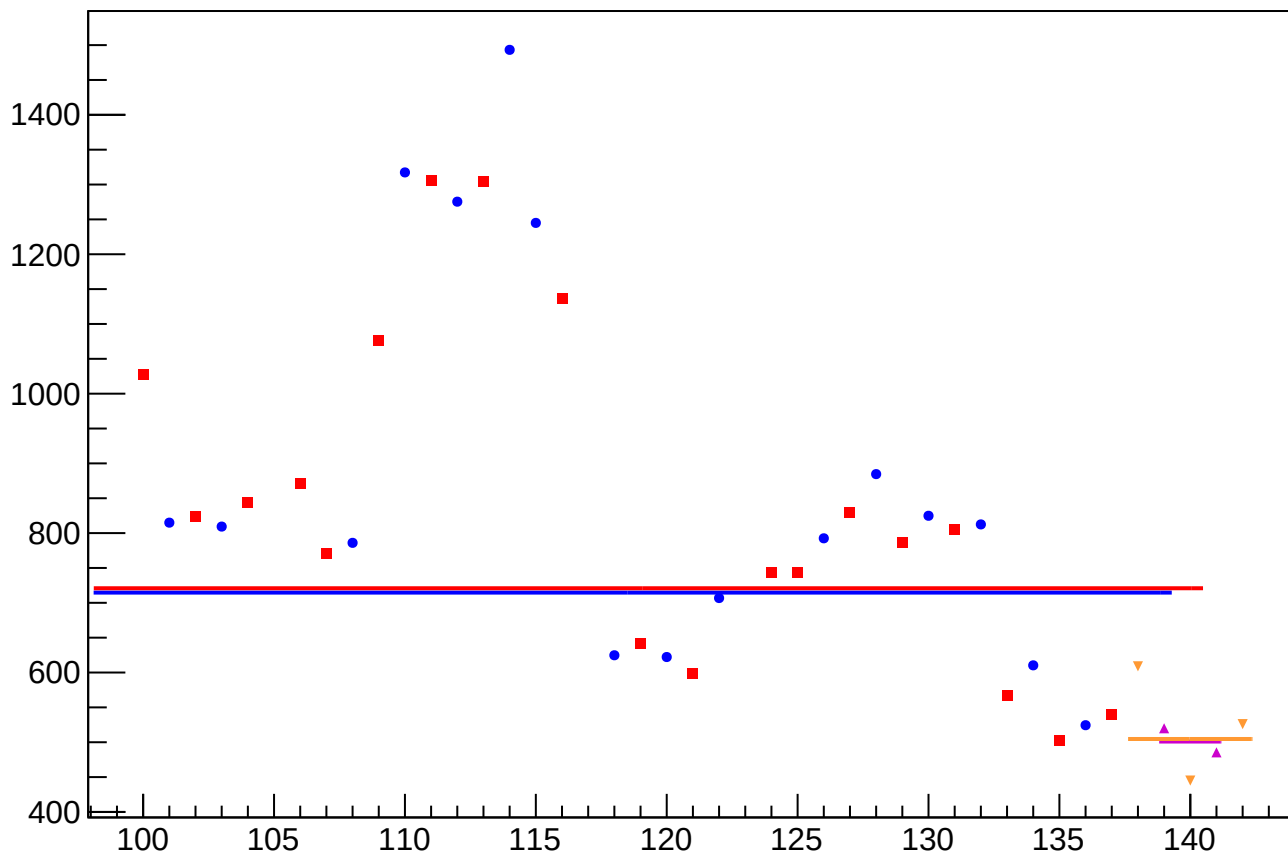
Right: -254.153 ± 193.800 χ^2/NDF : 26.5/34

In: -240.156 ± 223.231 χ^2/NDF : 13.5/17

Out: -183.179 ± 216.794 χ^2/NDF : 16.4/21

All: -210.834 ± 155.522 χ^2/NDF : 29.9/39

asym_sam_26_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 714.666 $\pm$ 0.194 χ^2 /NDF: 876211.4/15

Left Out: 504.654 $\pm$ 0.251 χ^2 /NDF: 77055.0/2

Right Out: 720.884 $\pm$ 0.193 χ^2 /NDF: 1018428.9/18

Left In: 501.013 $\pm$ 0.271 χ^2 /NDF: 4012.4/1

Left: 502.972 $\pm$ 0.184 χ^2 /NDF: 81164.5/4

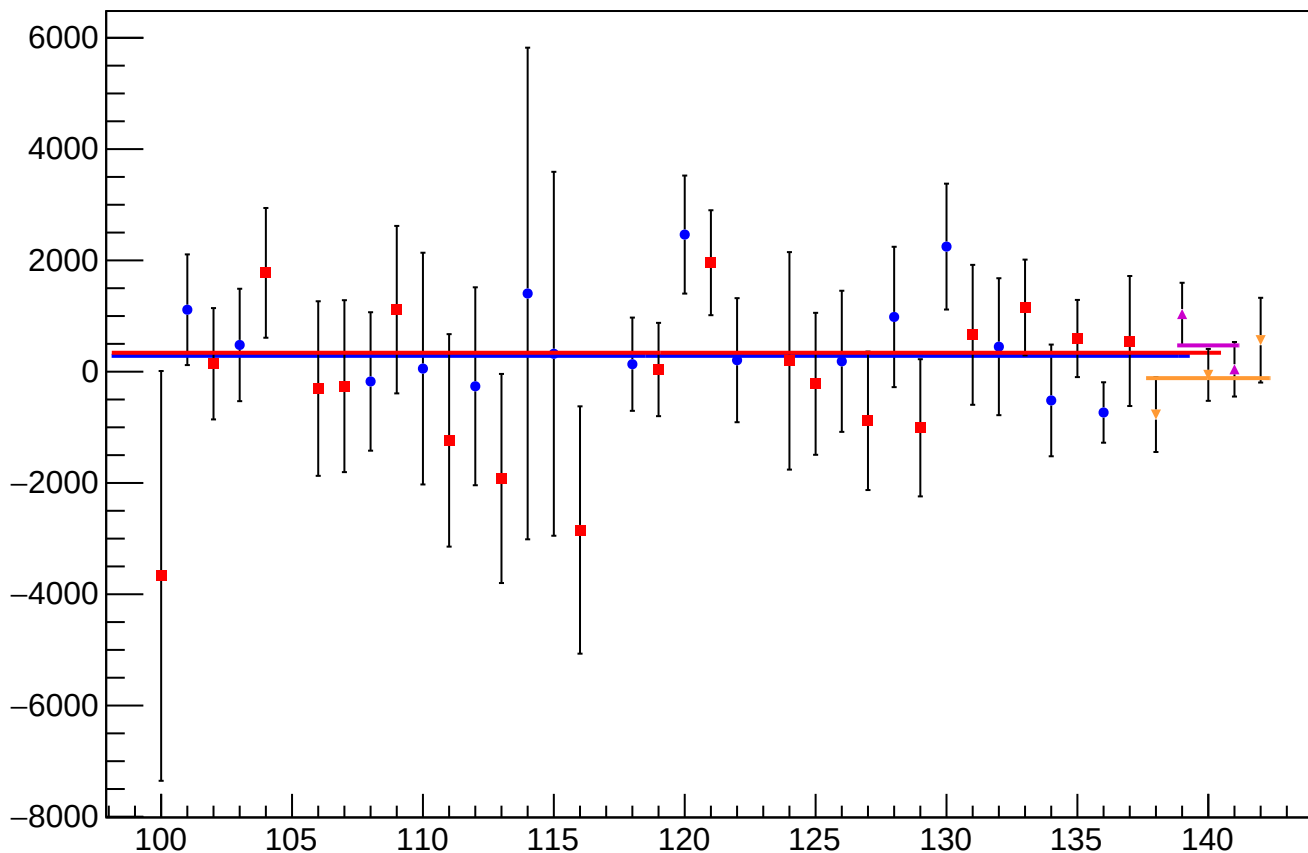
Right: 717.786 $\pm$ 0.137 χ^2 /NDF: 1895155.0/34

In: 642.251 $\pm$ 0.158 χ^2 /NDF: 1290716.3/17

Out: 640.421 $\pm$ 0.153 χ^2 /NDF: 1560351.8/21

All: 641.309 $\pm$ 0.110 χ^2 /NDF: 2851137.3/39

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 284.780 $\pm$ 271.944 χ^2 /NDF: 12.8/15

Left Out: -116.011 $\pm$ 342.401 χ^2 /NDF: 1.8/2

Right Out: 340.018 $\pm$ 273.601 χ^2 /NDF: 14.1/18

Left In: 472.237 $\pm$ 369.284 χ^2 /NDF: 1.8/1

Left: 155.925 $\pm$ 251.081 χ^2 /NDF: 4.9/4

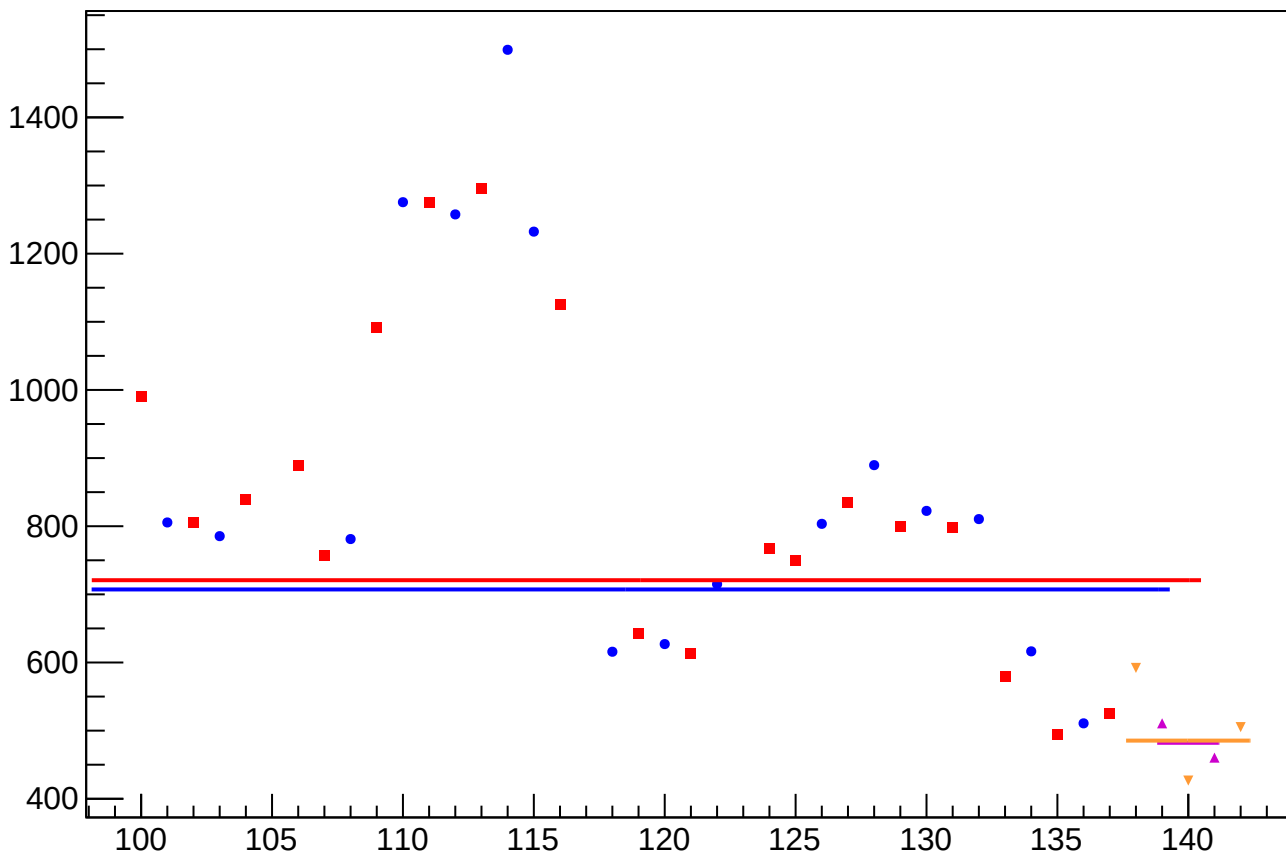
Right: 312.231 $\pm$ 192.877 χ^2 /NDF: 26.9/34

In: 350.693 $\pm$ 218.975 χ^2 /NDF: 14.7/17

Out: 162.309 $\pm$ 213.744 χ^2 /NDF: 16.9/21

All: 254.224 $\pm$ 152.956 χ^2 /NDF: 32.0/39

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 707.209 $\pm$ 0.192 χ^2 /NDF: 896689.9/15

Left Out: 485.374 $\pm$ 0.242 χ^2 /NDF: 83239.6/2

Right Out: 720.778 $\pm$ 0.193 χ^2 /NDF: 1015277.9/18

Left In: 482.168 $\pm$ 0.261 χ^2 /NDF: 9113.8/1

Left: 483.892 $\pm$ 0.178 χ^2 /NDF: 92434.4/4

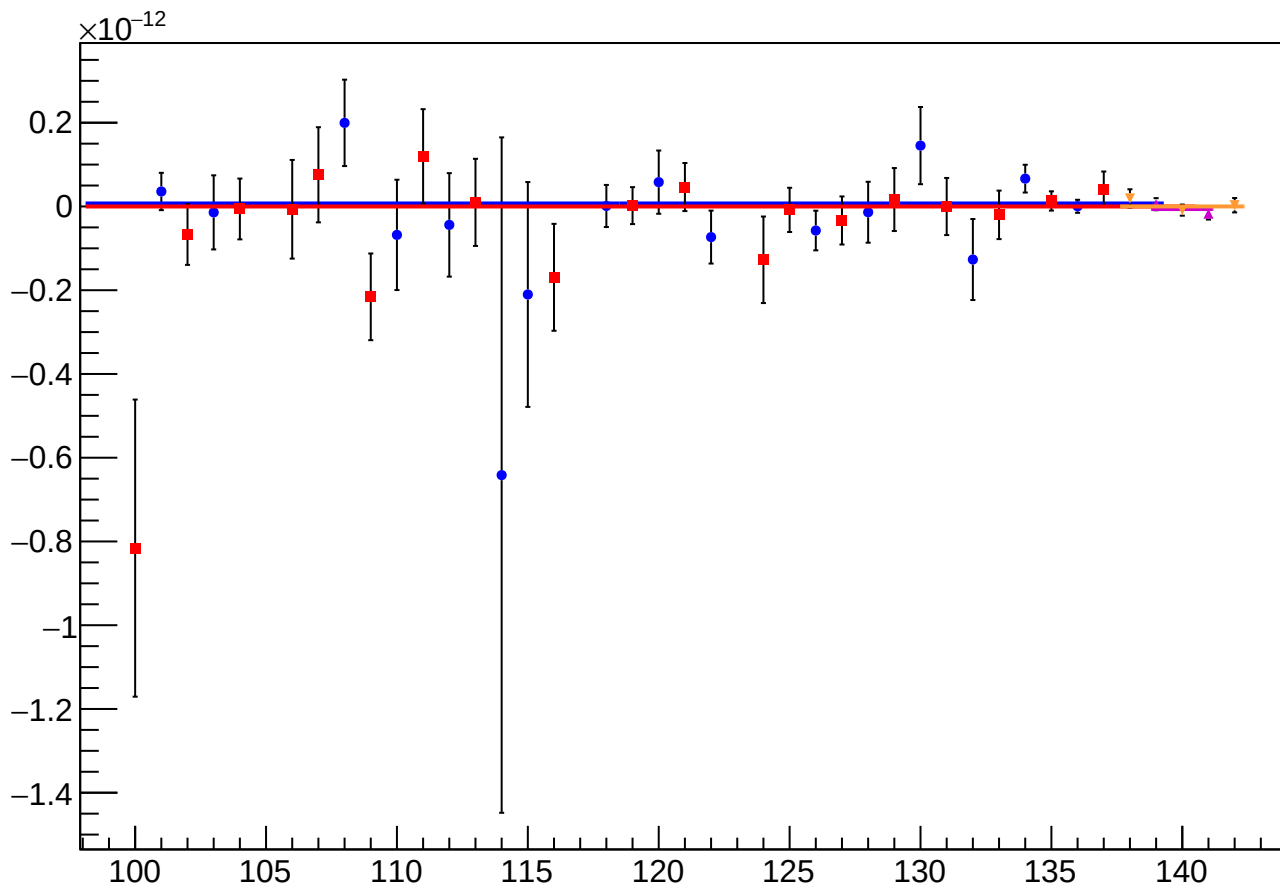
Right: 713.952 $\pm$ 0.136 χ^2 /NDF: 1914442.0/34

In: 628.081 $\pm$ 0.155 χ^2 /NDF: 1387380.6/17

Out: 629.044 $\pm$ 0.151 χ^2 /NDF: 1675465.0/21

All: 628.574 $\pm$ 0.108 χ^2 /NDF: 3062865.4/39

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 17.3/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:1.2/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 17.8/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:1.3/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 2.7/4

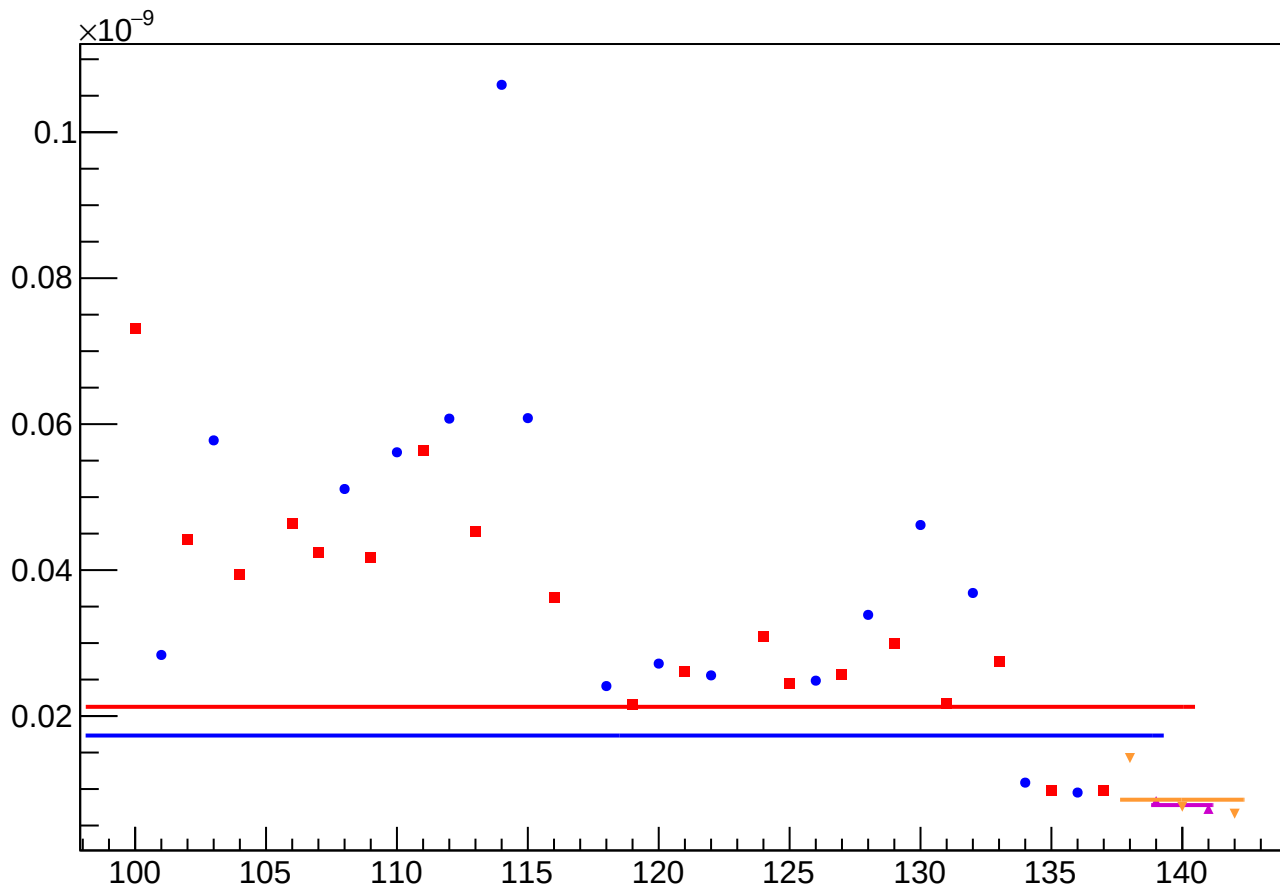
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 35.3/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:19.4/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:19.0/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 38.4/39

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2368825.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 171731.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1671050.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 5613.2/1

Left: 0.000+/-0.000 χ^2/NDF : 182993.7/4

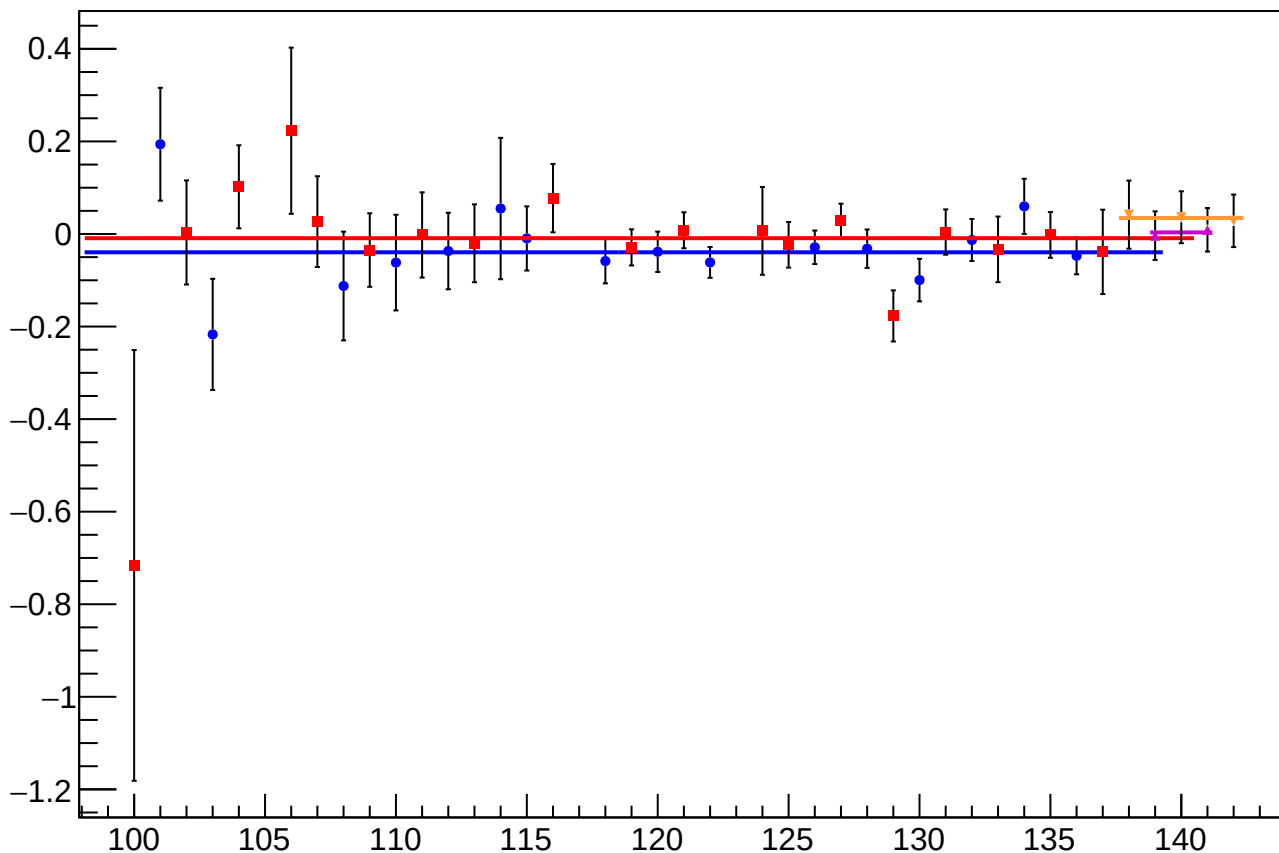
Right: 0.000+/-0.000 χ^2/NDF : 4139315.0/34

In: 0.000+/-0.000 χ^2/NDF : 3152127.4/17

Out: 0.000+/-0.000 χ^2/NDF : 3046401.4/21

All: 0.000+/-0.000 χ^2/NDF : 6210115.5/39

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.013 χ^2/NDF : 12.4/15

Left Out: 0.034 ± 0.035 χ^2/NDF : 0.0/2

Right Out: -0.009 ± 0.014 χ^2/NDF : 18.3/18

Left In: 0.003 ± 0.035 χ^2/NDF : 0.0/1

Left: 0.019 ± 0.025 χ^2/NDF : 0.4/4

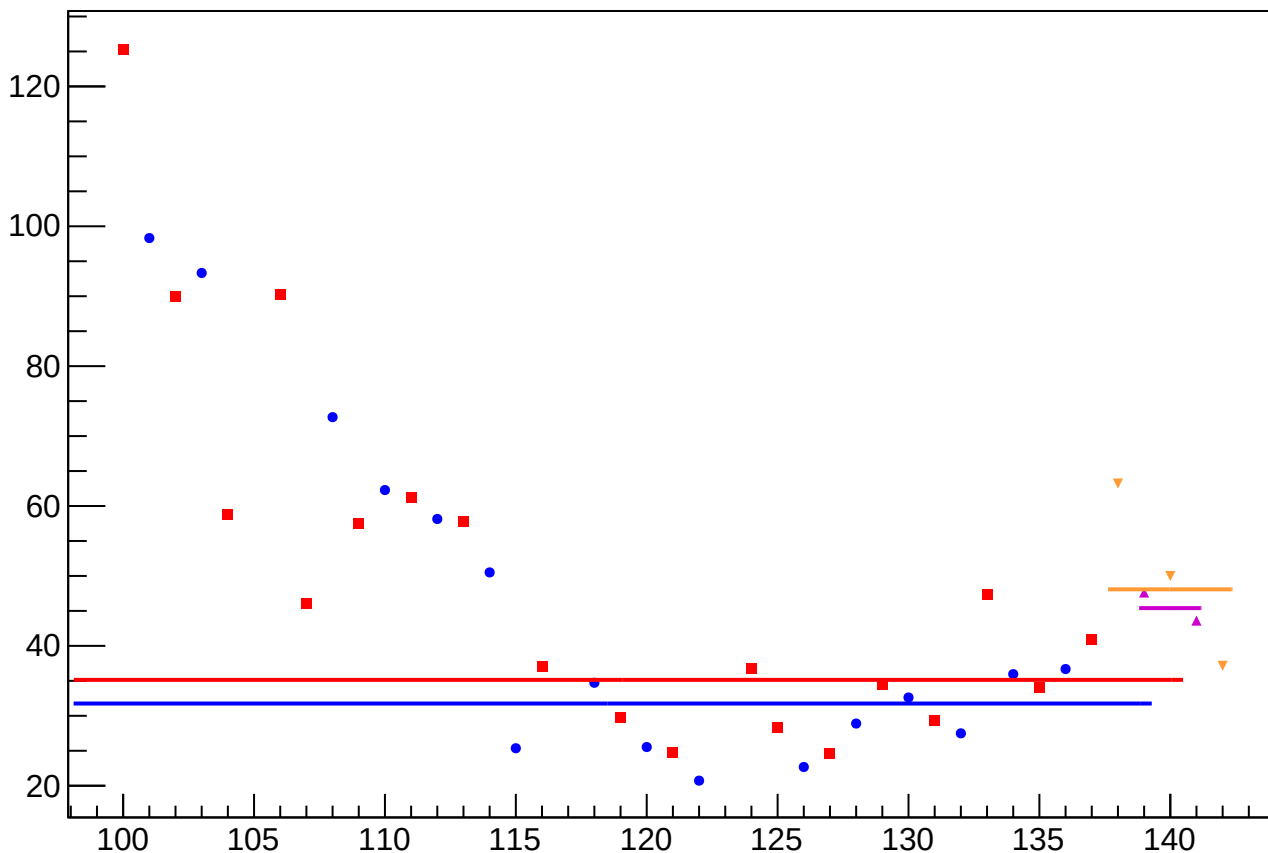
Right: -0.025 ± 0.010 χ^2/NDF : 33.2/34

In: -0.034 ± 0.012 χ^2/NDF : 13.8/17

Out: -0.003 ± 0.013 χ^2/NDF : 19.6/21

All: -0.020 ± 0.009 χ^2/NDF : 36.4/39

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 31.755+/-0.009 χ^2/NDF : 2252399.3/15

Left Out: 48.084+/-0.025 χ^2/NDF : 161127.0/2

Right Out: 35.140+/-0.010 χ^2/NDF : 1844676.3/18

Left In: 45.399+/-0.025 χ^2/NDF : 6480.4/1

Left: 46.740+/-0.018 χ^2/NDF : 173479.4/4

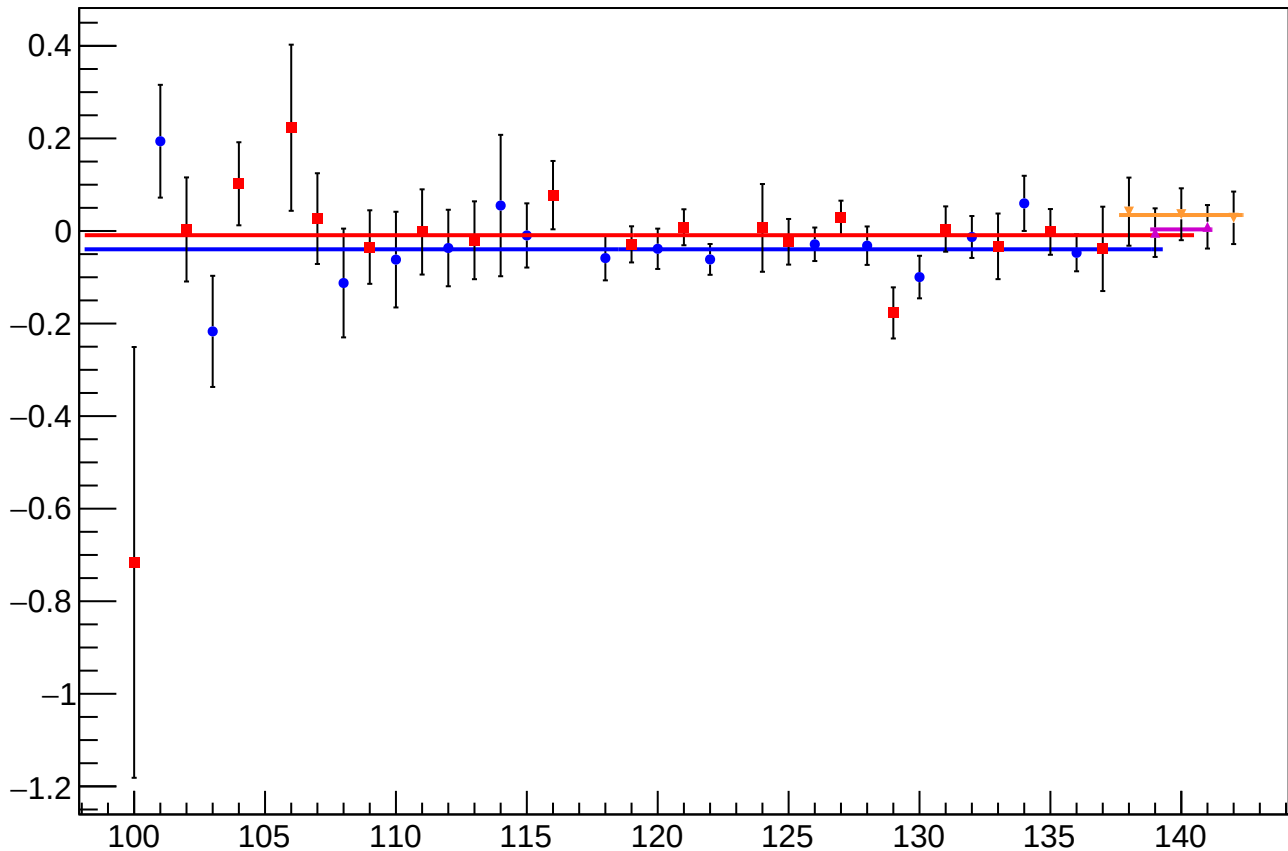
Right: 33.323+/-0.007 χ^2/NDF : 4158326.5/34

In: 33.444+/-0.009 χ^2/NDF : 2524832.6/17

Out: 36.957+/-0.009 χ^2/NDF : 2240273.6/21

All: 35.088+/-0.006 χ^2/NDF : 4841226.4/39

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.013 χ^2/NDF : 12.4/15

Left Out: 0.034 ± 0.035 χ^2/NDF : 0.0/2

Right Out: -0.009 ± 0.014 χ^2/NDF : 18.3/18

Left In: 0.003 ± 0.035 χ^2/NDF : 0.0/1

Left: 0.019 ± 0.025 χ^2/NDF : 0.4/4

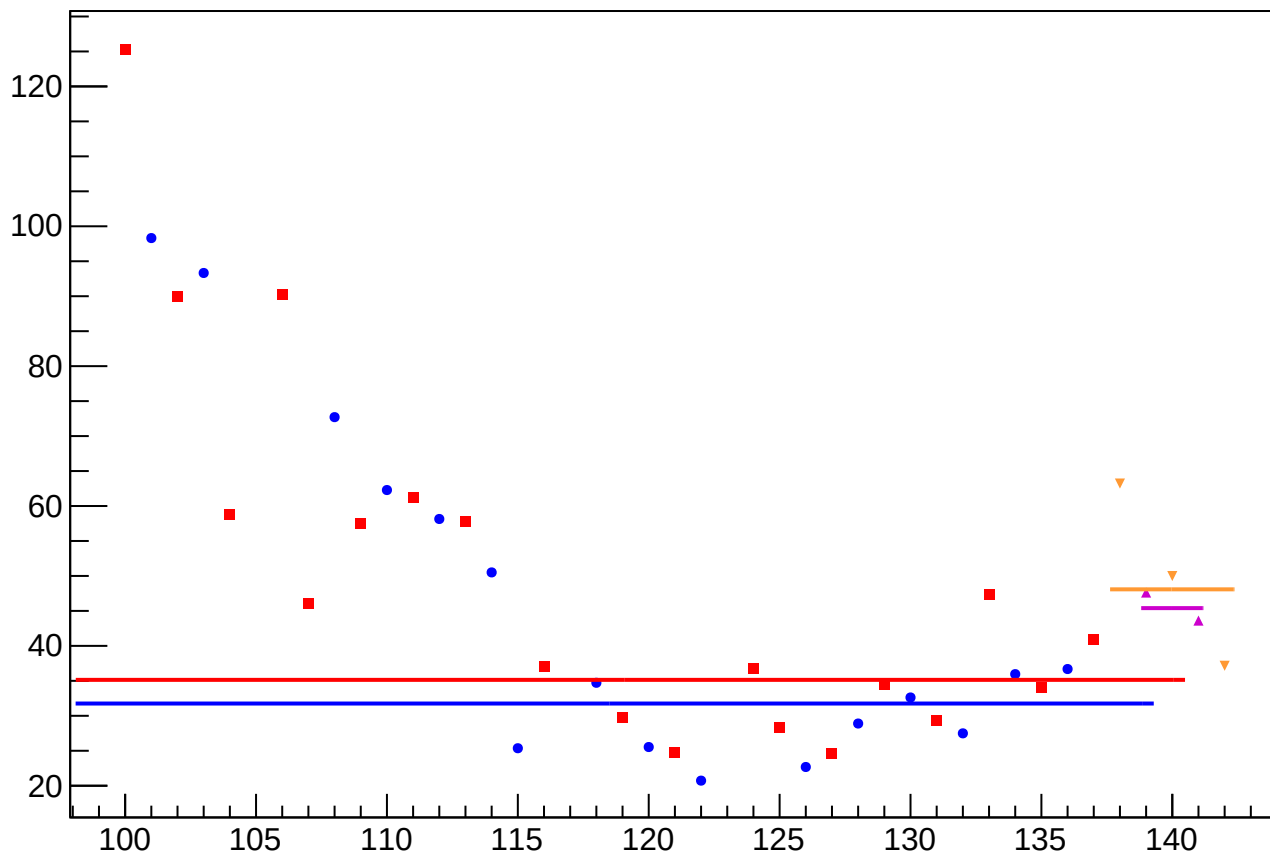
Right: -0.025 ± 0.010 χ^2/NDF : 33.2/34

In: -0.034 ± 0.012 χ^2/NDF : 13.8/17

Out: -0.003 ± 0.013 χ^2/NDF : 19.6/21

All: -0.020 ± 0.009 χ^2/NDF : 36.4/39

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 31.755+/-0.009 χ^2/NDF : 2252399.3/15

Left Out: 48.084+/-0.025 χ^2/NDF : 161127.0/2

Right Out: 35.140+/-0.010 χ^2/NDF : 1844676.3/18

Left In: 45.399+/-0.025 χ^2/NDF : 6480.4/1

Left: 46.740+/-0.018 χ^2/NDF : 173479.4/4

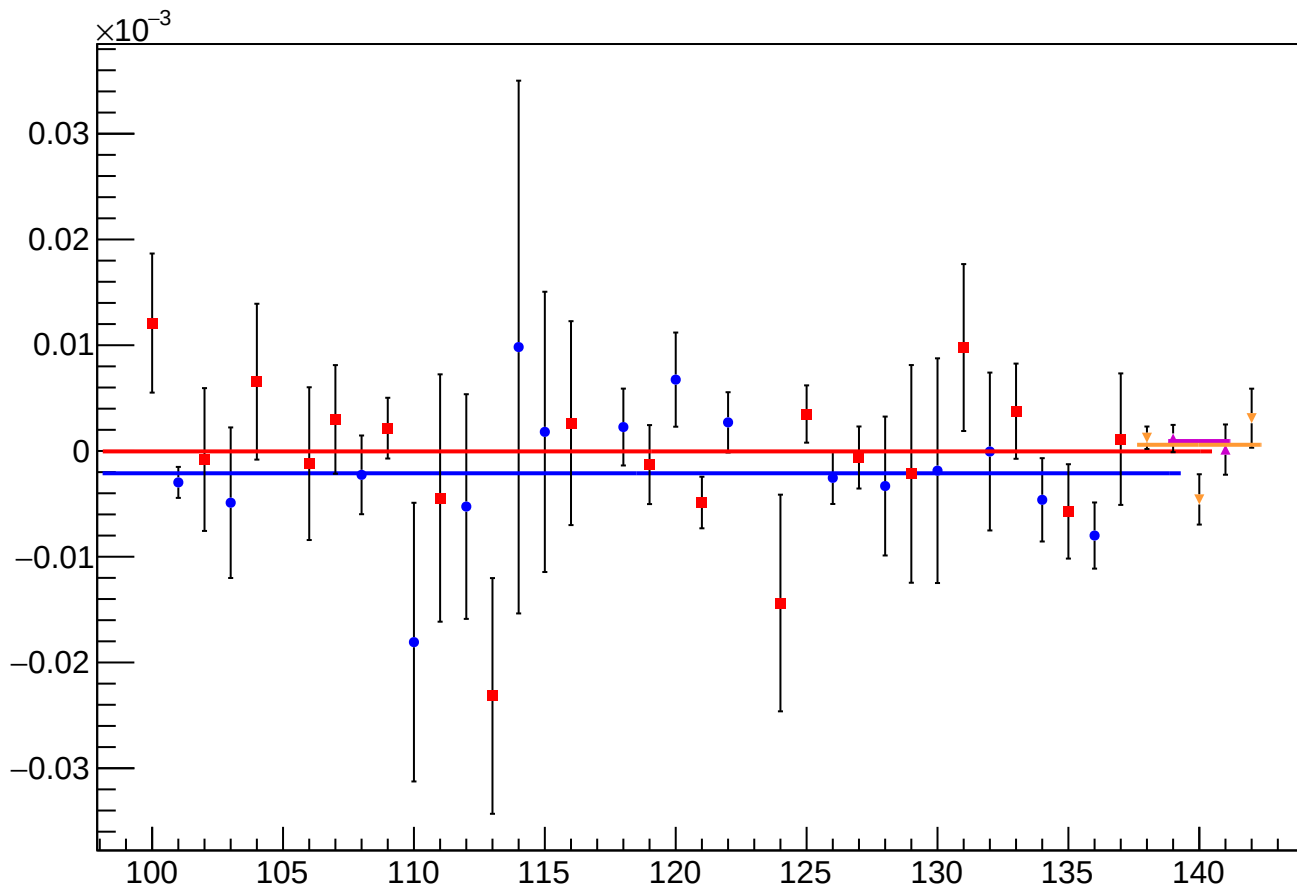
Right: 33.323+/-0.007 χ^2/NDF : 4158326.5/34

In: 33.444+/-0.009 χ^2/NDF : 2524832.6/17

Out: 36.957+/-0.009 χ^2/NDF : 2240273.6/21

All: 35.088+/-0.006 χ^2/NDF : 4841226.4/39

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 14.7/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 5.9/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 21.4/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.2/1

Left: 0.000 ± 0.000 χ^2/NDF : 6.1/4

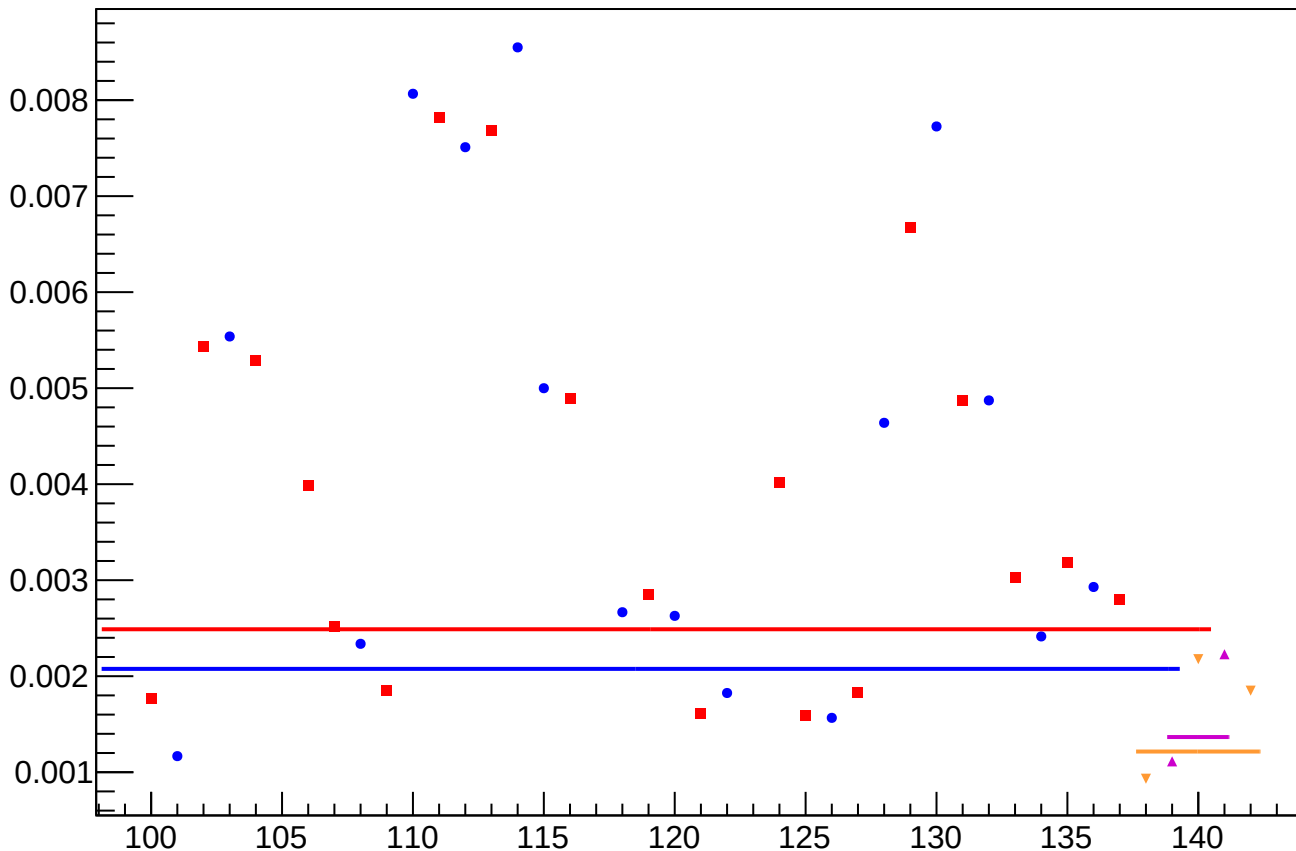
Right: -0.000 ± 0.000 χ^2/NDF : 38.4/34

In: -0.000 ± 0.000 χ^2/NDF : 19.3/17

Out: 0.000 ± 0.000 χ^2/NDF : 27.5/21

All: -0.000 ± 0.000 χ^2/NDF : 48.3/39

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3916668.9/15

Left Out: 0.001+/-0.000 χ^2/NDF : 572457.2/2

Right Out: 0.002+/-0.000 χ^2/NDF : 3092230.7/18

Left In: 0.001+/-0.000 χ^2/NDF : 340688.5/1

Left: 0.001+/-0.000 χ^2/NDF : 934635.7/4

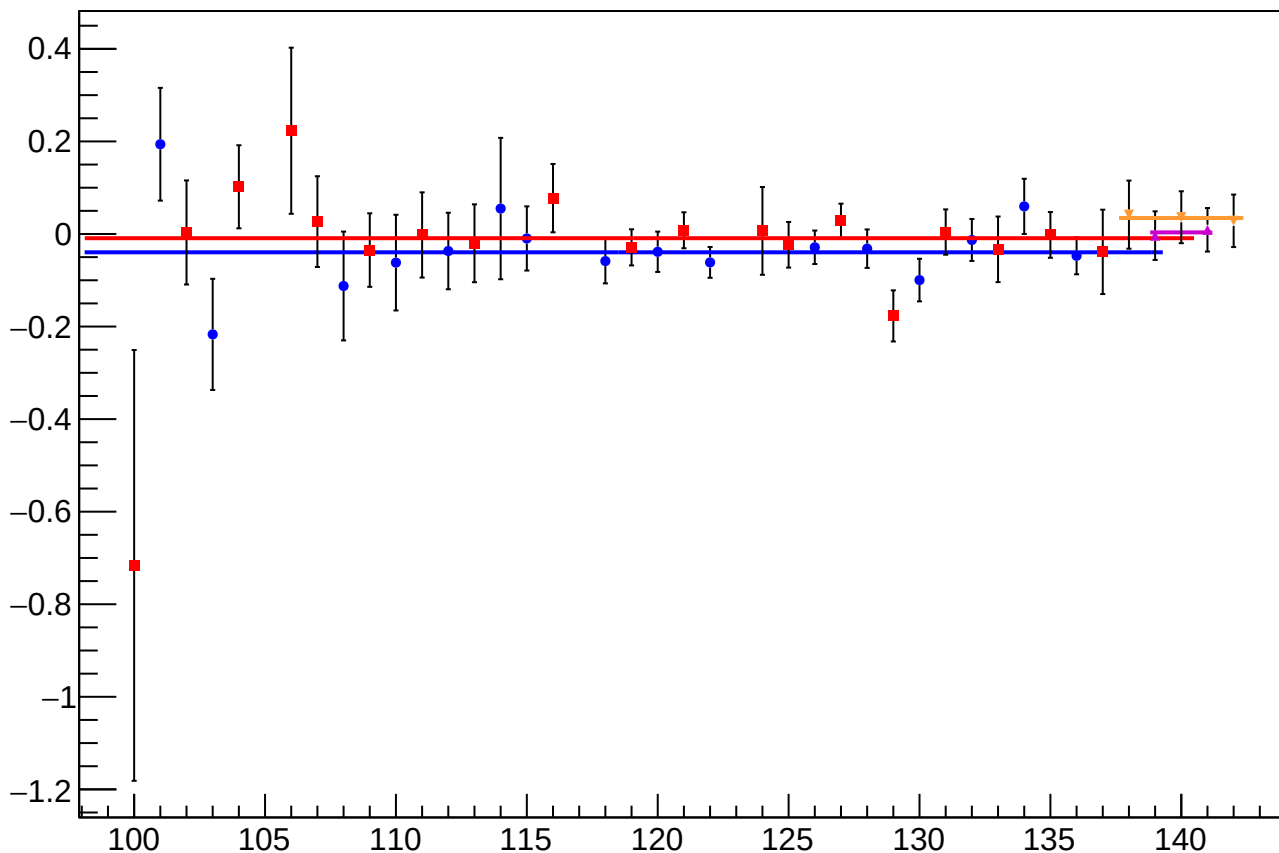
Right: 0.002+/-0.000 χ^2/NDF : 7186793.8/34

In: 0.002+/-0.000 χ^2/NDF : 4735330.3/17

Out: 0.002+/-0.000 χ^2/NDF : 5349874.1/21

All: 0.002+/-0.000 χ^2/NDF : 10086782.1/39

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.013 $\chi^2/\text{NDF}: 12.4/15$

Left Out: 0.034 ± 0.035 $\chi^2/\text{NDF}: 0.0/2$

Right Out: -0.009 ± 0.014 $\chi^2/\text{NDF}: 18.3/18$

Left In: 0.003 ± 0.035 $\chi^2/\text{NDF}: 0.0/1$

Left: 0.019 ± 0.025 $\chi^2/\text{NDF}: 0.4/4$

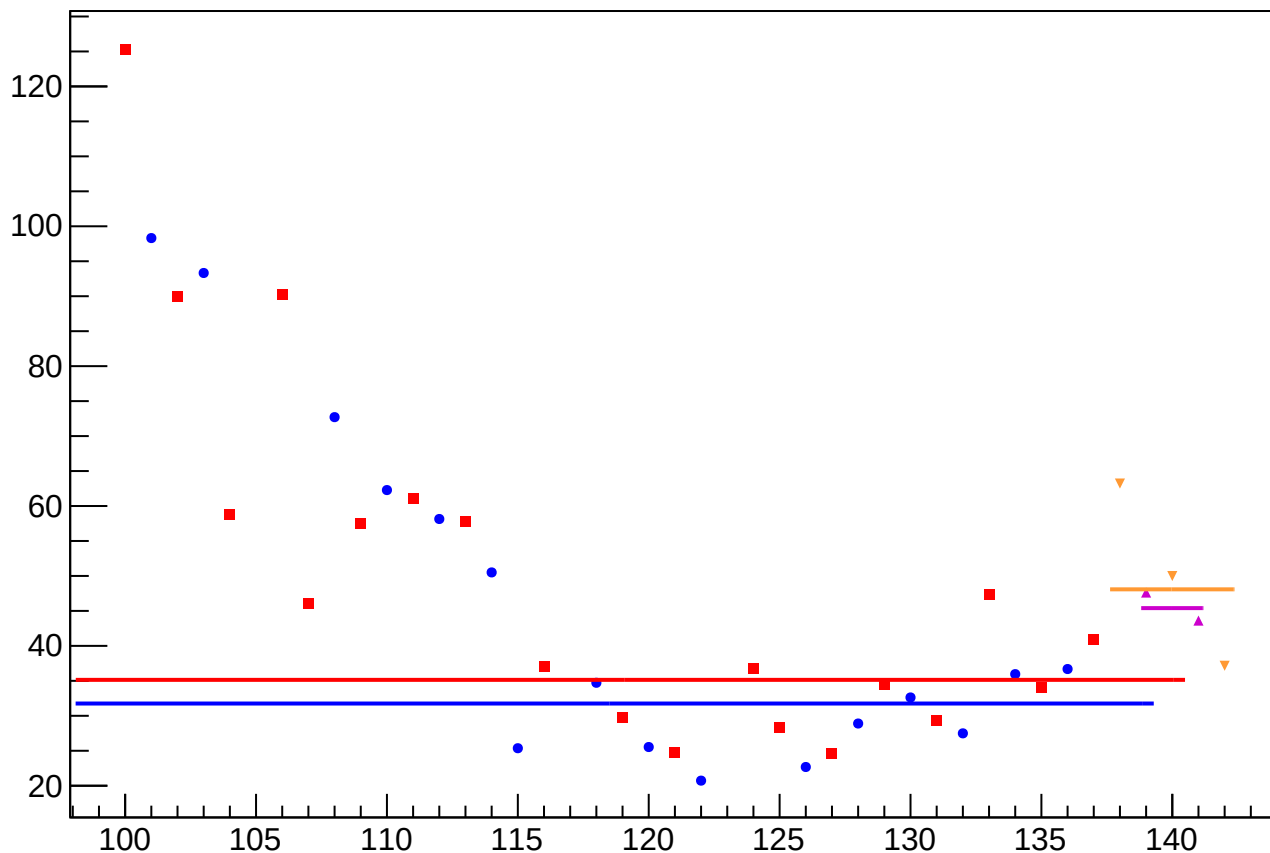
Right: -0.025 ± 0.010 $\chi^2/\text{NDF}: 33.2/34$

In: -0.034 ± 0.012 $\chi^2/\text{NDF}: 13.8/17$

Out: -0.003 ± 0.013 $\chi^2/\text{NDF}: 19.6/21$

All: -0.020 ± 0.009 $\chi^2/\text{NDF}: 36.4/39$

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 31.756+/-0.009 χ^2/NDF : 2252373.4/15

Left Out: 48.084+/-0.025 χ^2/NDF : 161118.8/2

Right Out: 35.140+/-0.010 χ^2/NDF : 1844572.3/18

Left In: 45.399+/-0.025 χ^2/NDF : 6478.5/1

Left: 46.741+/-0.018 χ^2/NDF : 173469.5/4

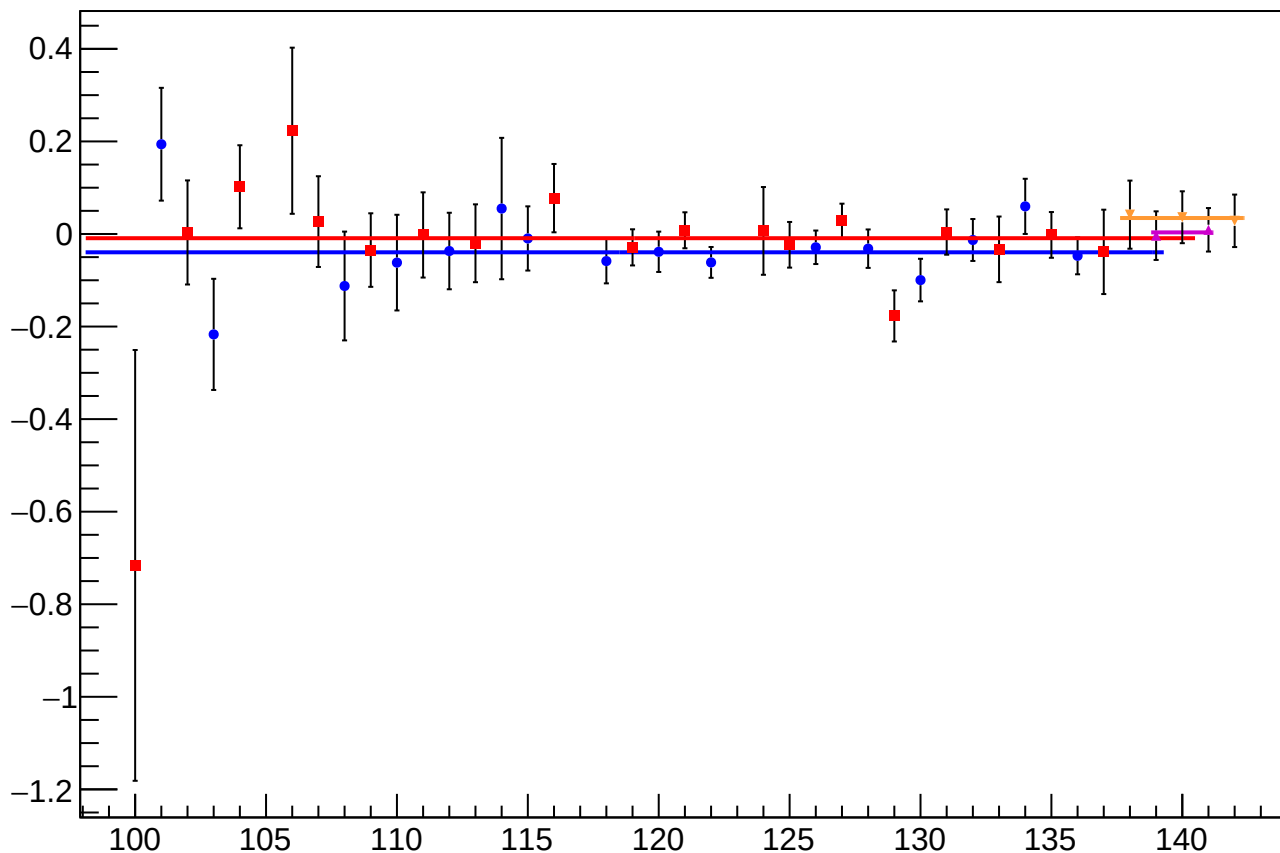
Right: 33.324+/-0.007 χ^2/NDF : 4158199.3/34

In: 33.444+/-0.009 χ^2/NDF : 2524799.9/17

Out: 36.958+/-0.009 χ^2/NDF : 2240155.3/21

All: 35.089+/-0.006 χ^2/NDF : 4841078.4/39

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.013 χ^2/NDF : 12.4/15

Left Out: 0.034 ± 0.035 χ^2/NDF : 0.0/2

Right Out: -0.009 ± 0.014 χ^2/NDF : 18.3/18

Left In: 0.003 ± 0.035 χ^2/NDF : 0.0/1

Left: 0.019 ± 0.025 χ^2/NDF : 0.4/4

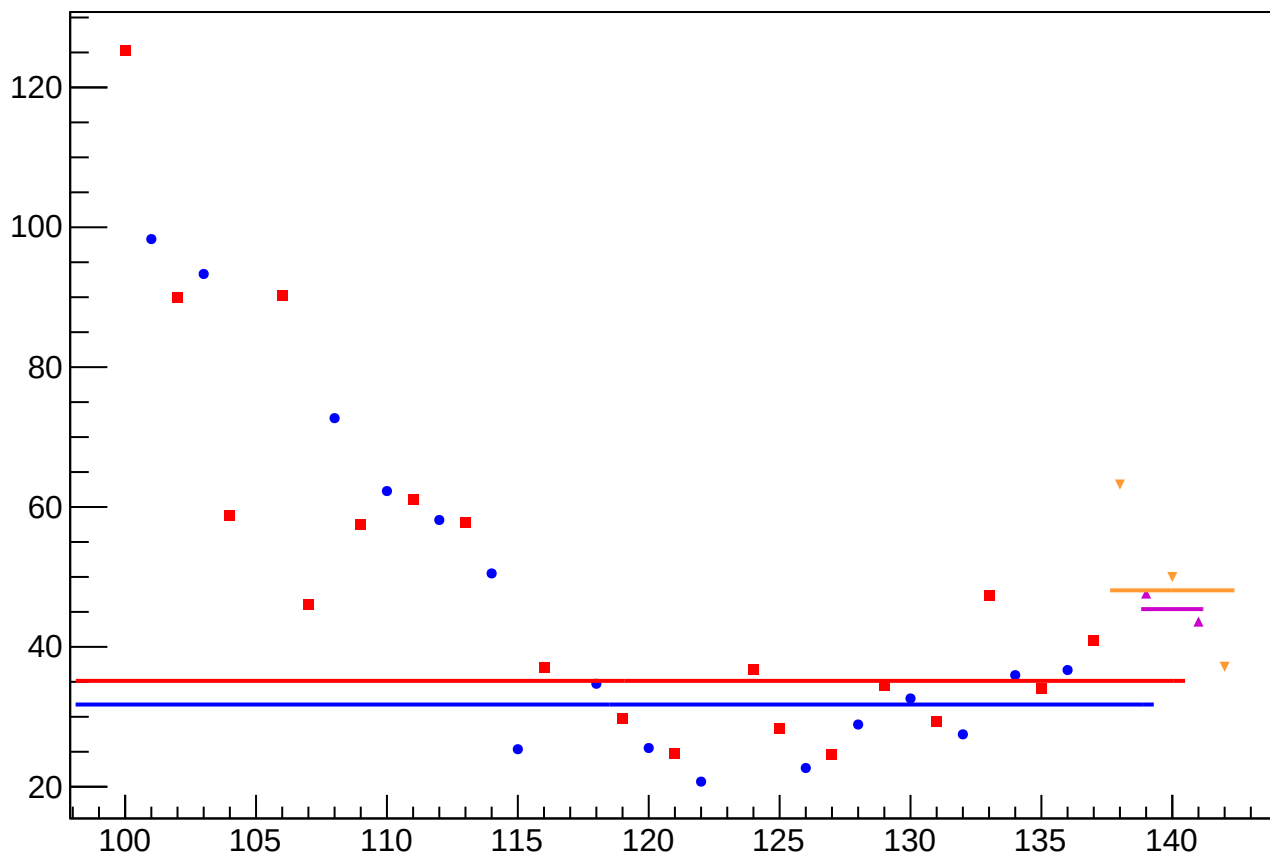
Right: -0.025 ± 0.010 χ^2/NDF : 33.2/34

In: -0.034 ± 0.012 χ^2/NDF : 13.8/17

Out: -0.003 ± 0.013 χ^2/NDF : 19.6/21

All: -0.020 ± 0.009 χ^2/NDF : 36.4/39

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 31.756 $\pm$ 0.009 χ^2/NDF : 2252373.4/15

Left Out: 48.084 $\pm$ 0.025 χ^2/NDF : 161118.8/2

Right Out: 35.140 $\pm$ 0.010 χ^2/NDF : 1844572.3/18

Left In: 45.399 $\pm$ 0.025 χ^2/NDF : 6478.5/1

Left: 46.741 $\pm$ 0.018 χ^2/NDF : 173469.5/4

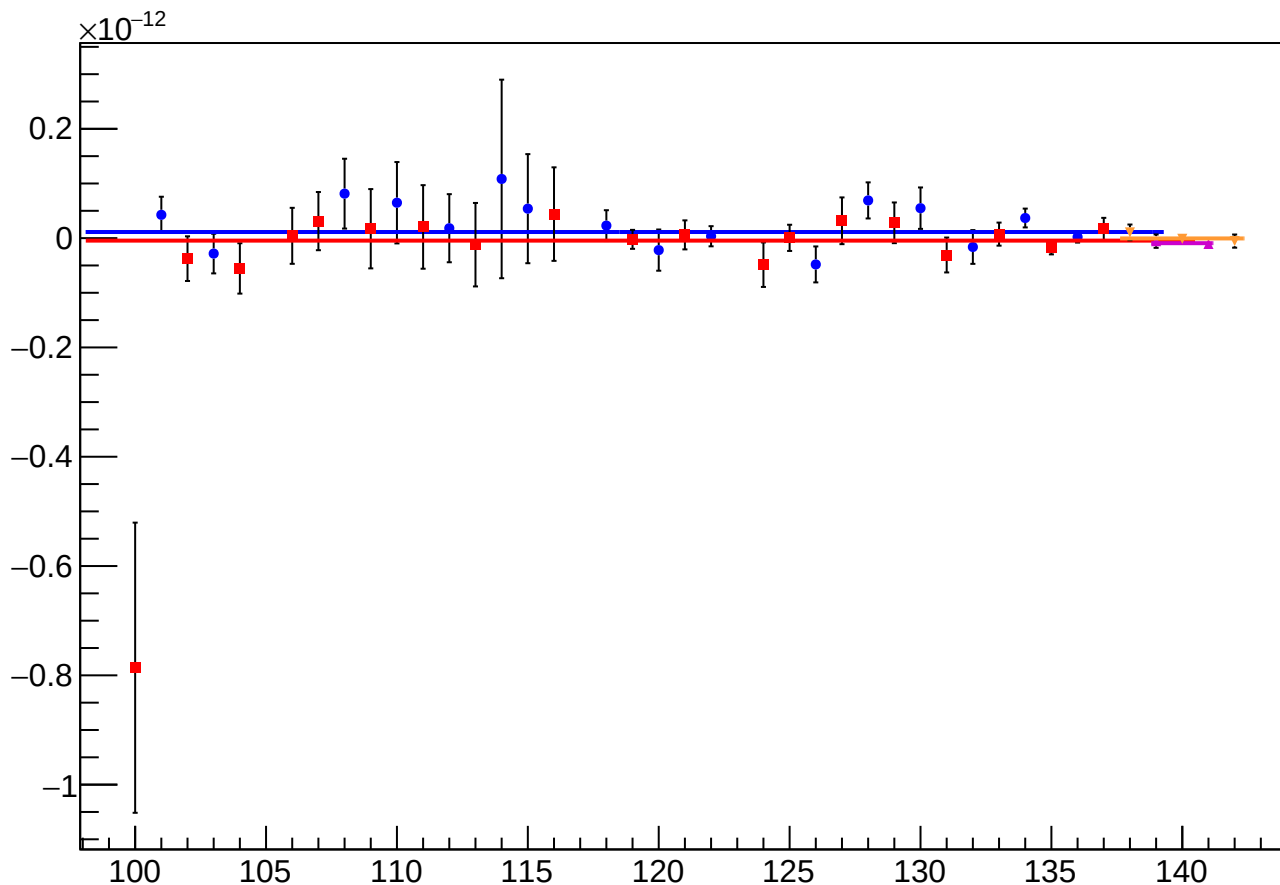
Right: 33.324 $\pm$ 0.007 χ^2/NDF : 4158199.3/34

In: 33.444 $\pm$ 0.009 χ^2/NDF : 2524799.9/17

Out: 36.958 $\pm$ 0.009 χ^2/NDF : 2240155.3/21

All: 35.089 $\pm$ 0.006 χ^2/NDF : 4841078.4/39

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.8/2

Right Out: -0.000+/-0.000 χ^2/NDF : 17.5/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.1/1

Left: -0.000+/-0.000 χ^2/NDF : 2.1/4

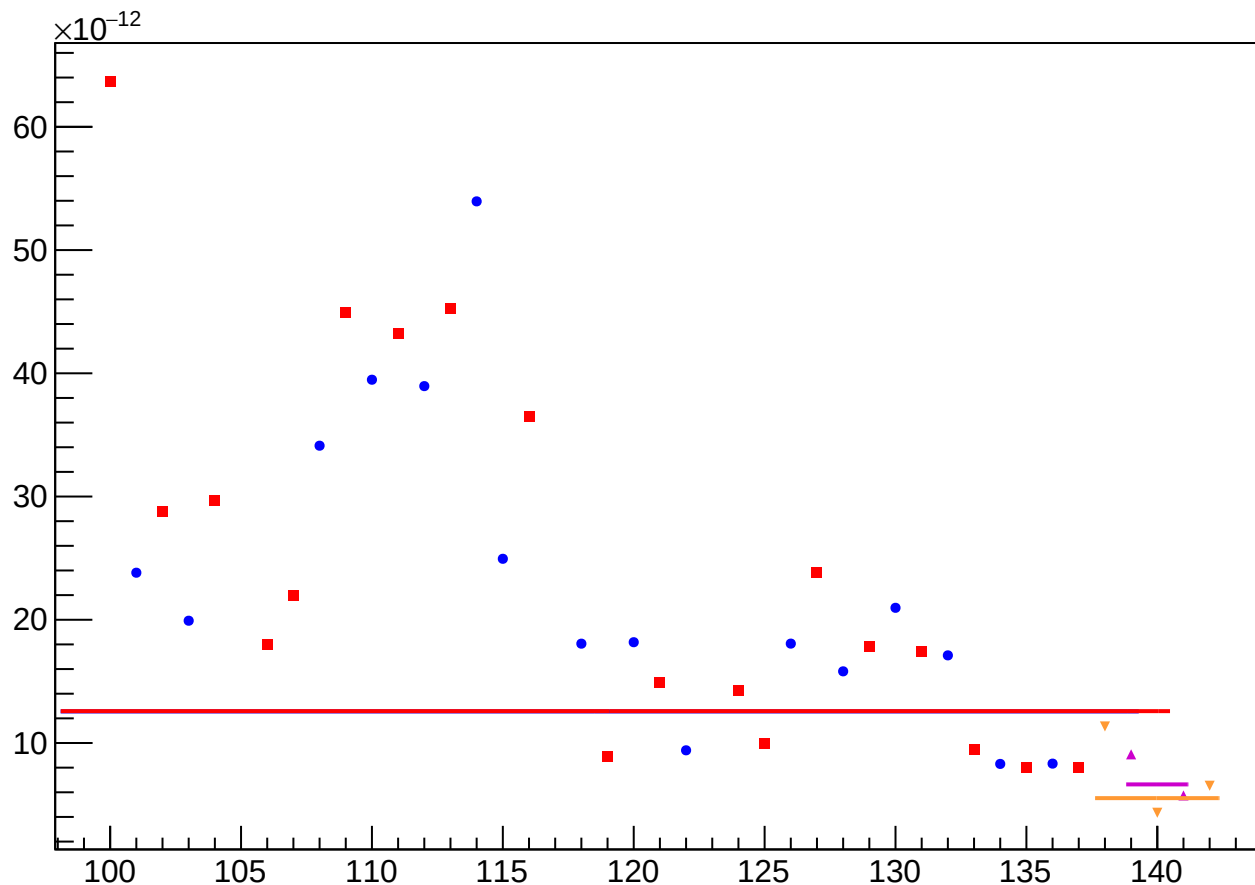
Right: 0.000+/-0.000 χ^2/NDF : 37.3/34

In: 0.000+/-0.000 χ^2/NDF : 22.1/17

Out: -0.000+/-0.000 χ^2/NDF : 18.5/21

All: -0.000+/-0.000 χ^2/NDF : 40.8/39

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2164553.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 422398.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2747891.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 108788.8/1

Left: 0.000+/-0.000 χ^2/NDF : 569715.7/4

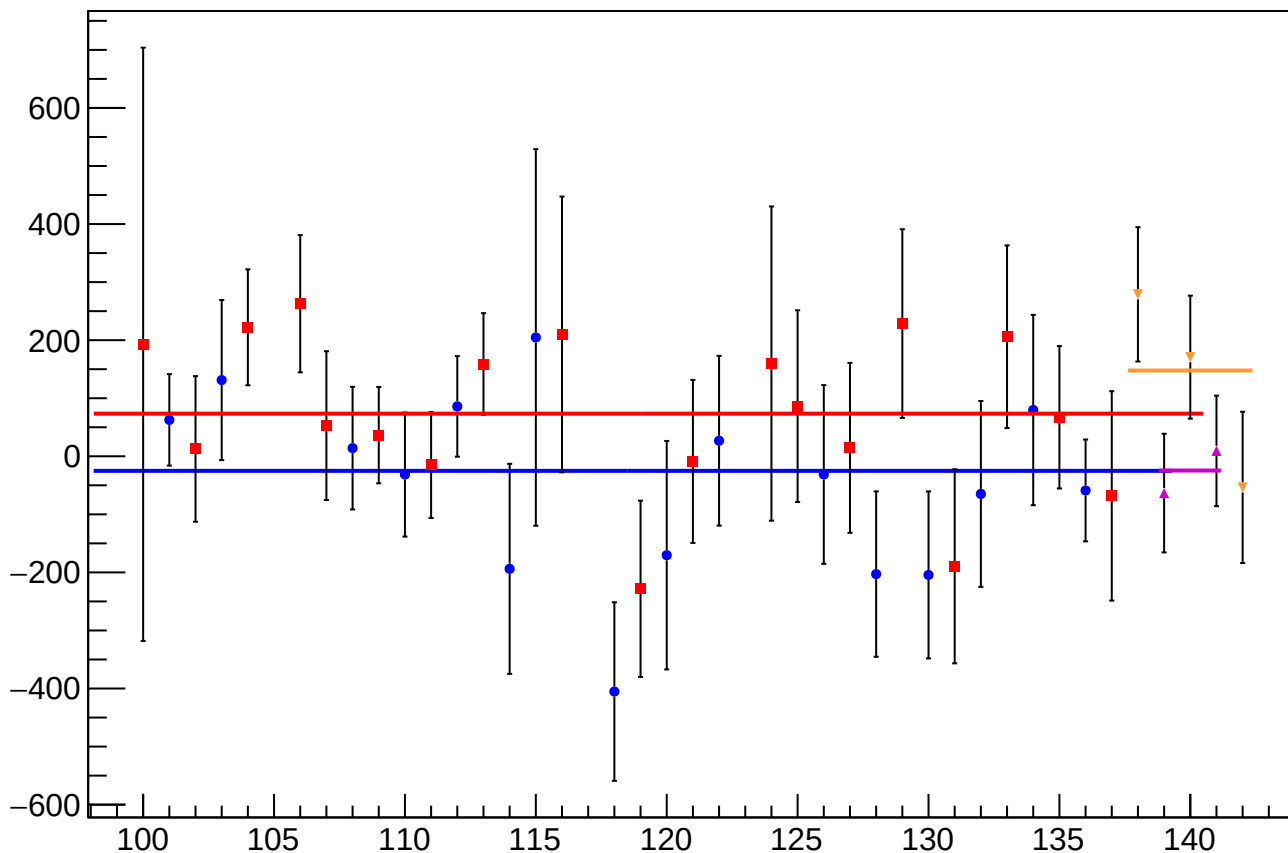
Right: 0.000+/-0.000 χ^2/NDF : 4912459.0/34

In: 0.000+/-0.000 χ^2/NDF : 3131108.1/17

Out: 0.000+/-0.000 χ^2/NDF : 4625752.4/21

All: 0.000+/-0.000 χ^2/NDF : 7885300.9/39

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -25.072 ± 31.230 χ^2/NDF : 16.2/15

Left Out: 147.755 ± 66.999 χ^2/NDF : 3.7/2

Right Out: 73.458 ± 29.935 χ^2/NDF : 16.8/18

Left In: -24.497 ± 69.657 χ^2/NDF : 0.3/1

Left: 64.977 ± 48.288 χ^2/NDF : 7.2/4

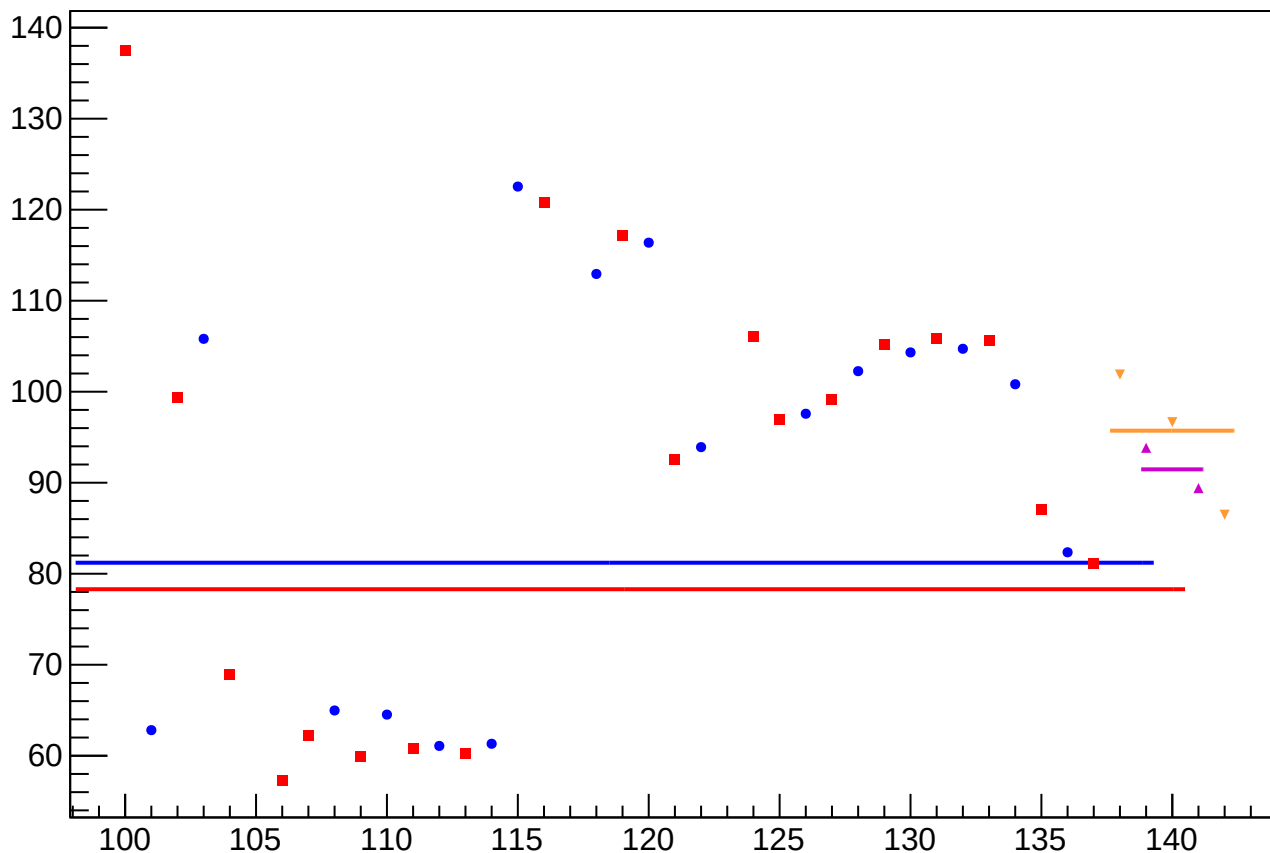
Right: 26.278 ± 21.610 χ^2/NDF : 38.2/34

In: -24.976 ± 28.497 χ^2/NDF : 16.5/17

Out: 85.821 ± 27.331 χ^2/NDF : 21.5/21

All: 32.735 ± 19.725 χ^2/NDF : 45.9/39

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 81.210 $\pm$ 0.022 χ^2 /NDF: 787676.9/15

Left Out: 95.720 $\pm$ 0.047 χ^2 /NDF:15885.4/2

Right Out: 78.298 $\pm$ 0.021 χ^2 /NDF: 934673.9/18

Left In: 91.467 $\pm$ 0.049 χ^2 /NDF:2013.3/1

Left: 93.677 $\pm$ 0.034 χ^2 /NDF: 21771.3/4

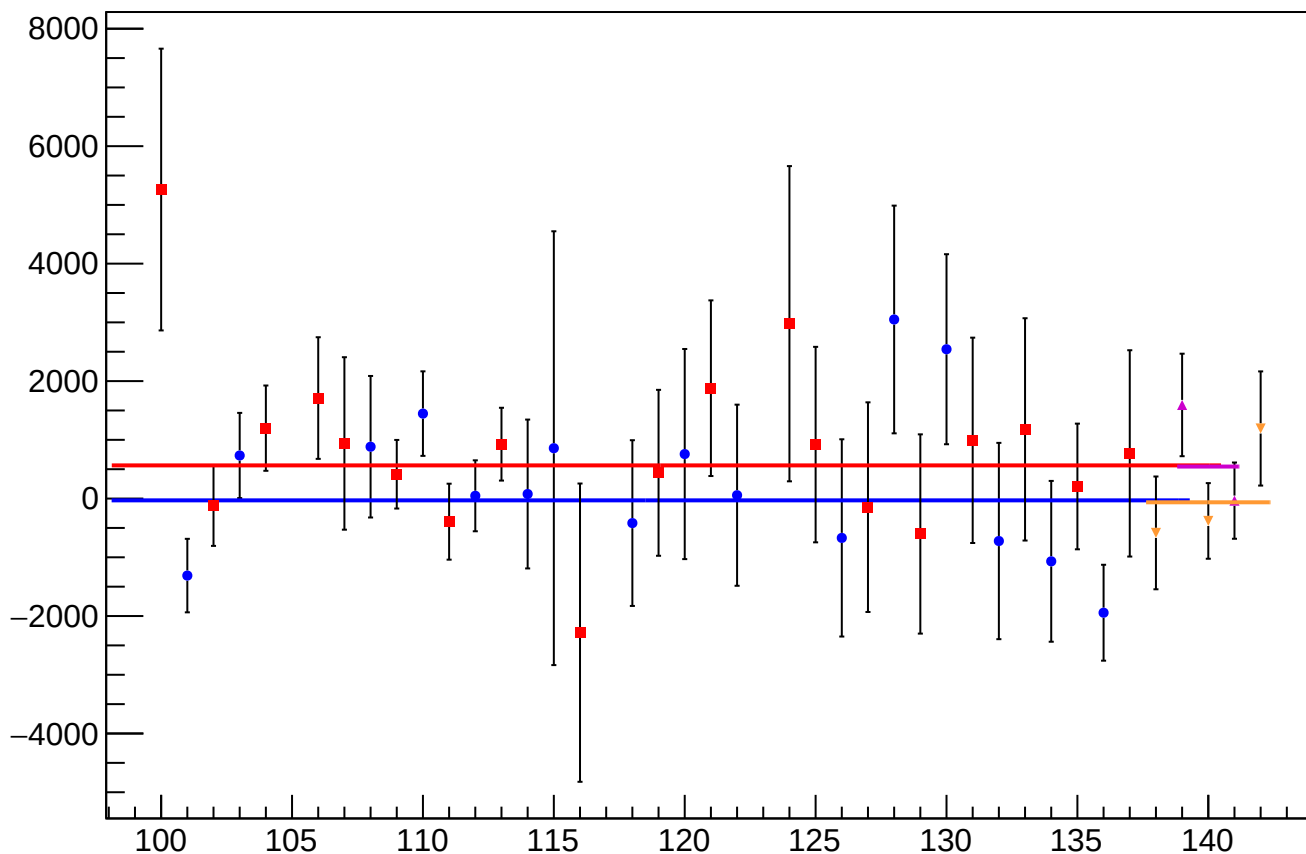
Right: 79.692 $\pm$ 0.015 χ^2 /NDF: 1731411.2/34

In: 82.926 $\pm$ 0.020 χ^2 /NDF:825804.0/17

Out: 81.197 $\pm$ 0.019 χ^2 /NDF:1063295.1/21

All: 82.026 $\pm$ 0.014 χ^2 /NDF: 1892935.3/39

asym_sam_1548_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -30.407 ± 256.999 $\chi^2/\text{NDF}: 21.9/15$

Left Out: -63.520 ± 468.523 $\chi^2/\text{NDF}: 2.2/2$

Right Out: 564.890 ± 238.492 $\chi^2/\text{NDF}: 13.3/18$

Left In: 545.092 ± 520.818 $\chi^2/\text{NDF}: 2.2/1$

Left: 208.705 ± 348.321 $\chi^2/\text{NDF}: 5.2/4$

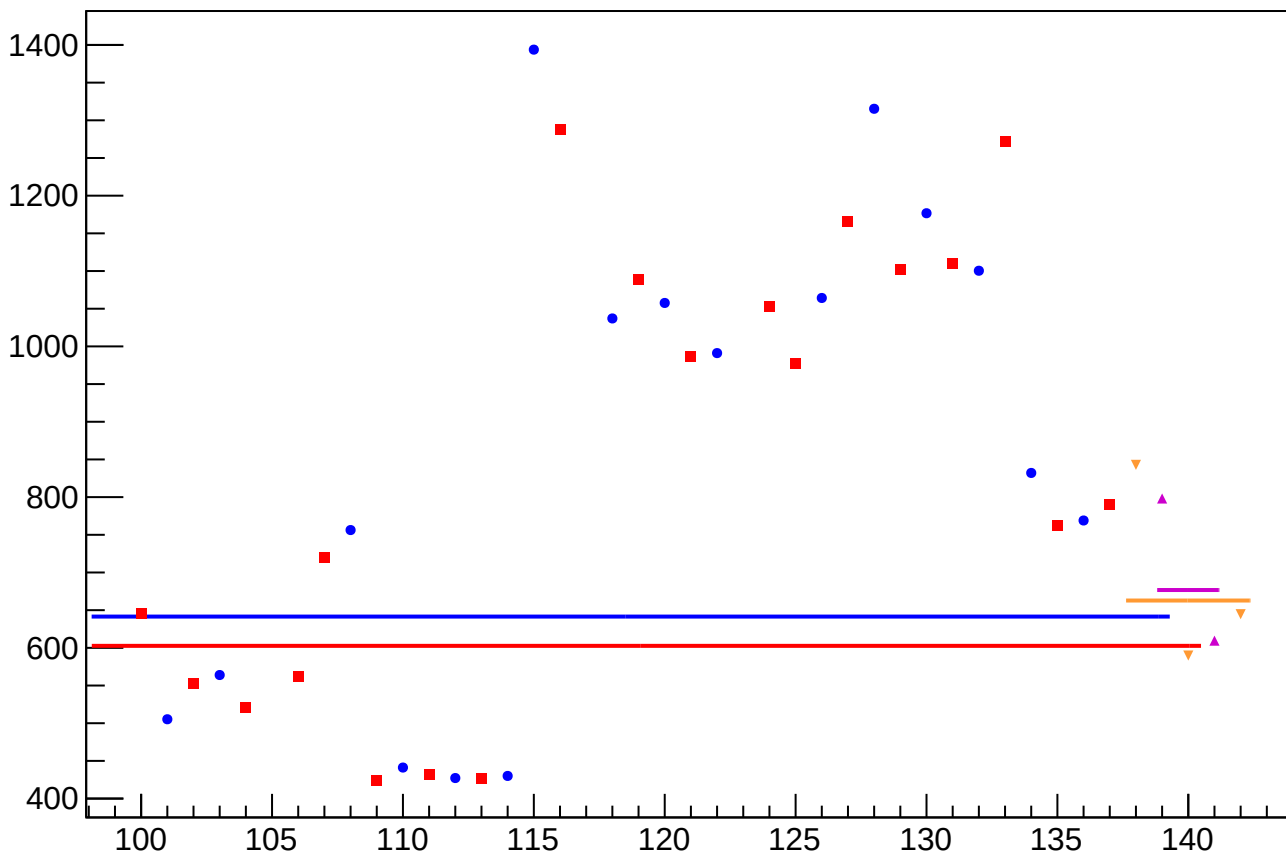
Right: 289.446 ± 174.816 $\chi^2/\text{NDF}: 38.1/34$

In: 82.285 ± 230.467 $\chi^2/\text{NDF}: 25.1/17$

Out: 435.570 ± 212.541 $\chi^2/\text{NDF}: 16.9/21$

All: 273.200 ± 156.243 $\chi^2/\text{NDF}: 43.3/39$

asym_sam_1548_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 641.499+/-0.182 χ^2/NDF : 1874990.8/15

Left Out: 662.798+/-0.331 χ^2/NDF : 96723.5/2

Right Out: 602.654+/-0.169 χ^2/NDF : 2070307.7/18

Left In: 676.735+/-0.368 χ^2/NDF : 60167.3/1

Left: 669.032+/-0.246 χ^2/NDF : 157682.4/4

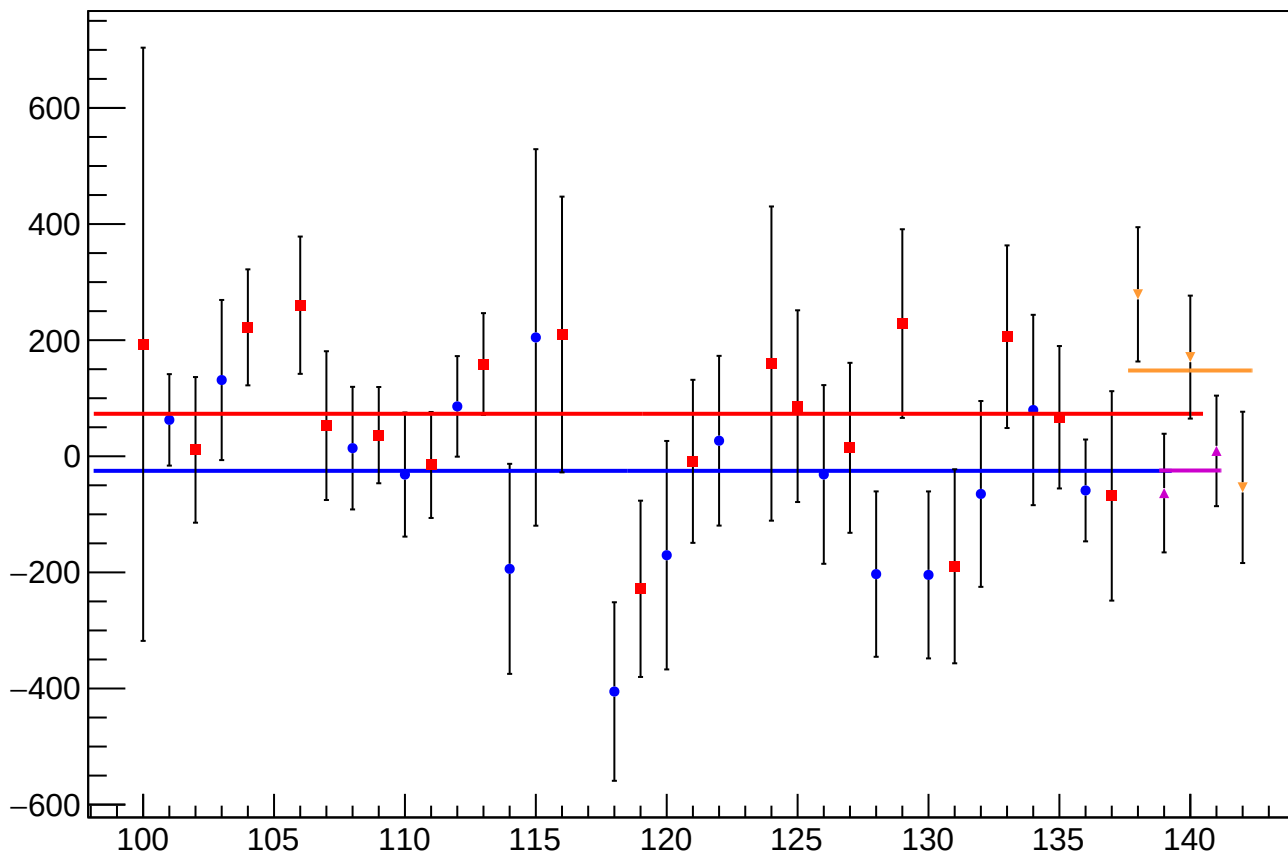
Right: 620.627+/-0.124 χ^2/NDF : 3969848.5/34

In: 648.398+/-0.163 χ^2/NDF : 1942520.1/17

Out: 615.031+/-0.150 χ^2/NDF : 2193206.9/21

All: 630.366+/-0.110 χ^2/NDF : 4158382.7/39

cor_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -25.075 ± 31.230 χ^2/NDF : 16.2/15

Left Out: 147.762 ± 66.999 χ^2/NDF : 3.7/2

Right Out: 73.193 ± 29.937 χ^2/NDF : 16.7/18

Left In: -24.489 ± 69.657 χ^2/NDF : 0.3/1

Left: 64.985 ± 48.288 χ^2/NDF : 7.2/4

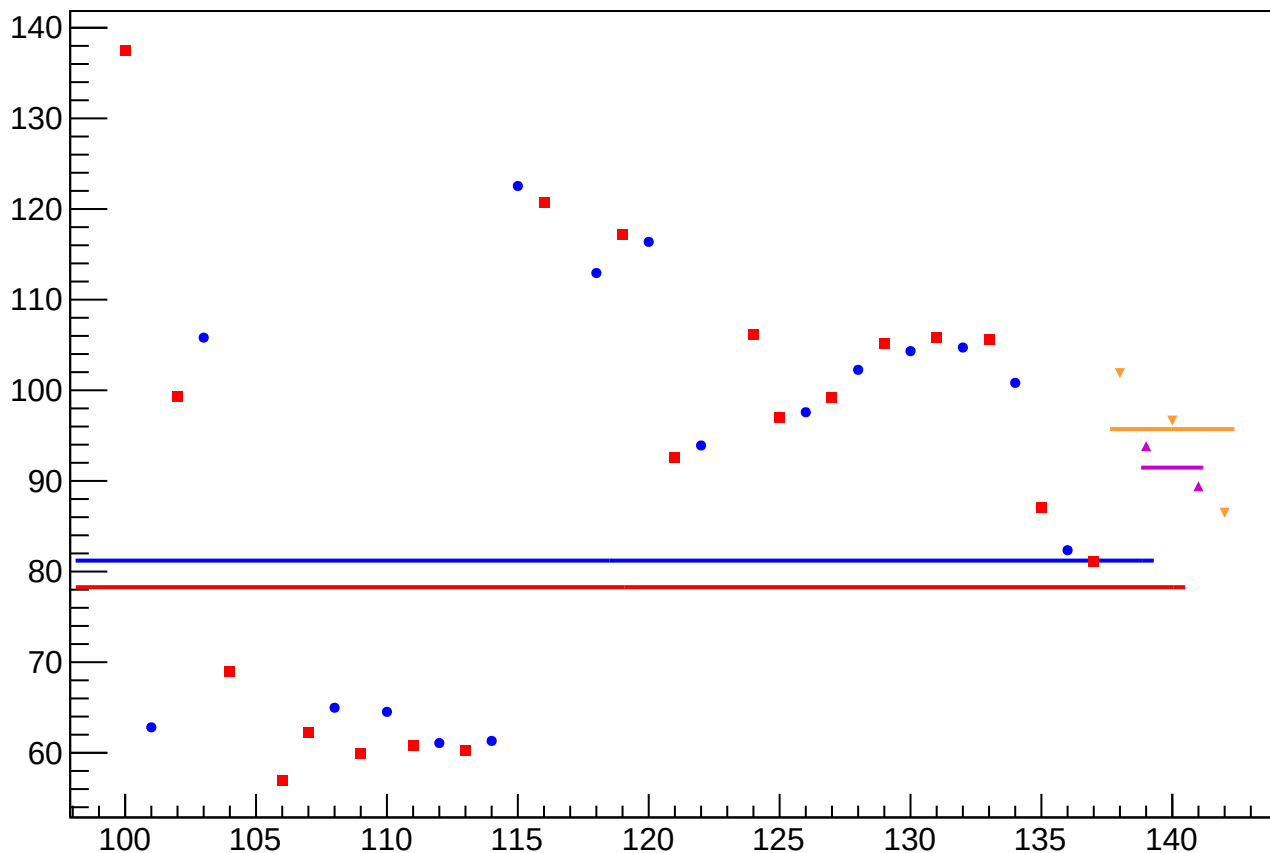
Right: 26.135 ± 21.611 χ^2/NDF : 38.1/34

In: -24.977 ± 28.497 χ^2/NDF : 16.5/17

Out: 85.603 ± 27.332 χ^2/NDF : 21.5/21

All: 32.618 ± 19.726 χ^2/NDF : 45.8/39

cor_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 81.210 $\pm$ 0.022 χ^2 /NDF: 787679.3/15

Left Out: 95.720 $\pm$ 0.047 χ^2 /NDF:15885.4/2

Right Out: 78.279 $\pm$ 0.021 χ^2 /NDF: 936812.2/18

Left In: 91.467 $\pm$ 0.049 χ^2 /NDF:2013.3/1

Left: 93.677 $\pm$ 0.034 χ^2 /NDF: 21771.3/4

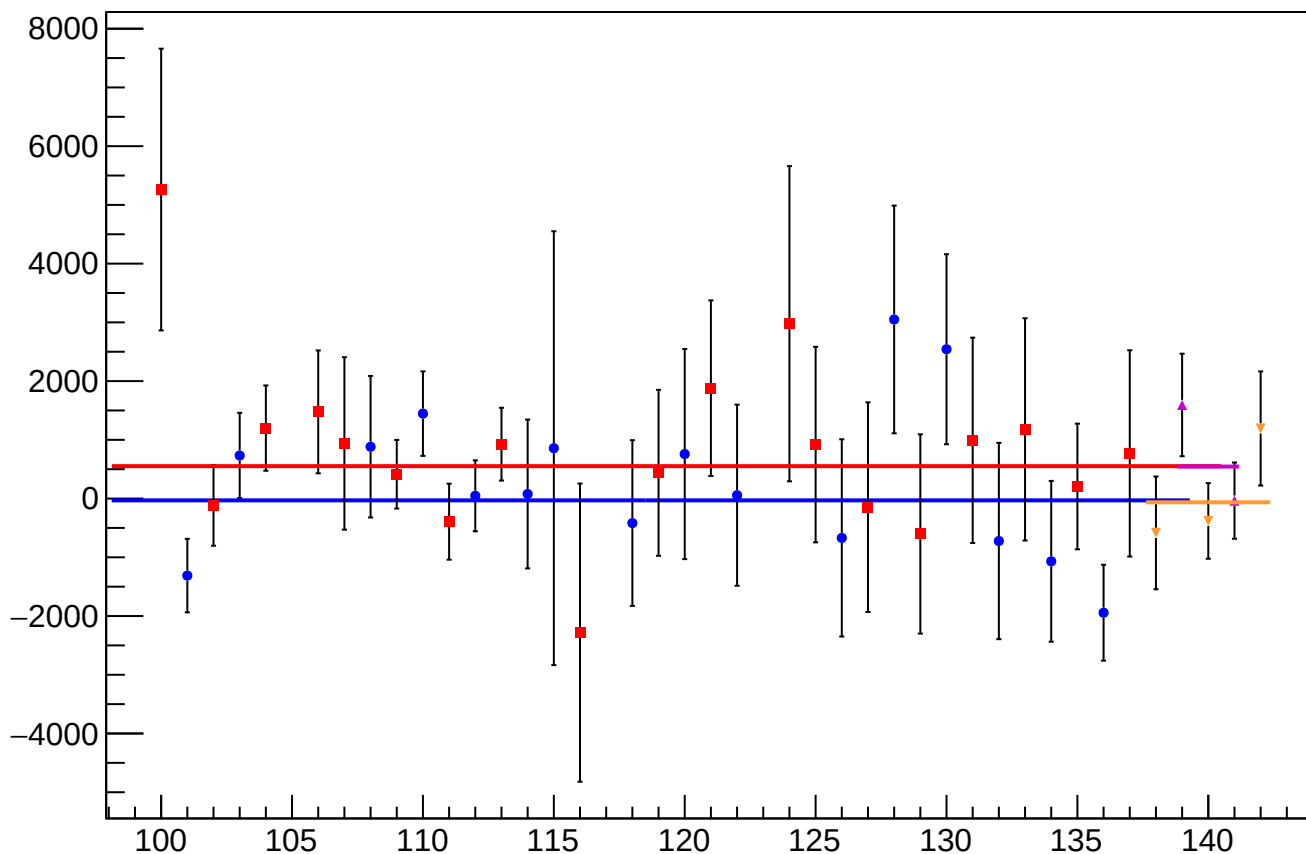
Right: 79.683 $\pm$ 0.015 χ^2 /NDF: 1733667.8/34

In: 82.926 $\pm$ 0.020 χ^2 /NDF:825806.2/17

Out: 81.182 $\pm$ 0.019 χ^2 /NDF:1065672.5/21

All: 82.018 $\pm$ 0.014 χ^2 /NDF: 1895382.8/39

asym_sam_1548_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -30.434 ± 257.002 $\chi^2/\text{NDF}: 21.9/15$

Left Out: -63.513 ± 468.523 $\chi^2/\text{NDF}: 2.2/2$

Right Out: 551.948 ± 238.640 $\chi^2/\text{NDF}: 12.8/18$

Left In: 545.114 ± 520.818 $\chi^2/\text{NDF}: 2.2/1$

Left: 208.719 ± 348.321 $\chi^2/\text{NDF}: 5.2/4$

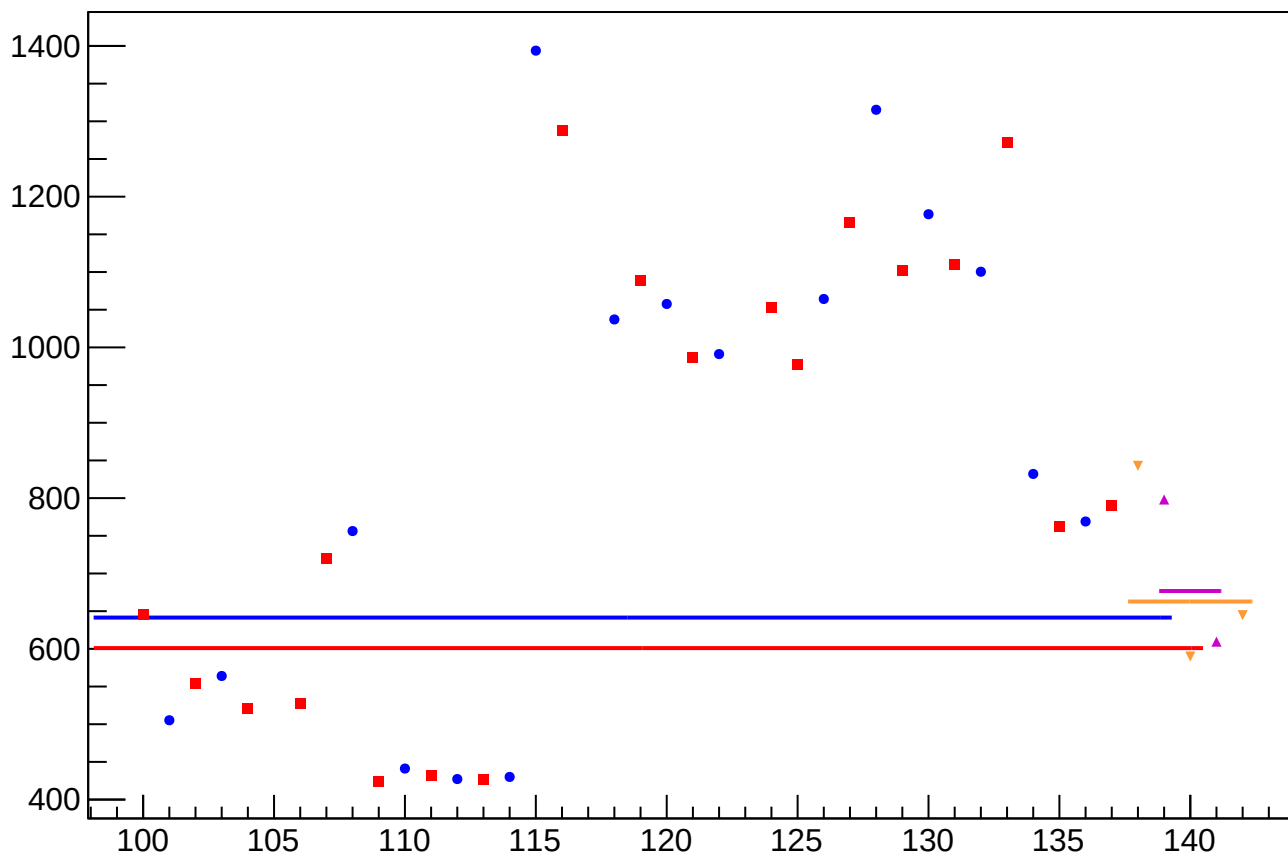
Right: 282.303 ± 174.876 $\chi^2/\text{NDF}: 37.4/34$

In: 82.270 ± 230.470 $\chi^2/\text{NDF}: 25.1/17$

Out: 425.168 ± 212.645 $\chi^2/\text{NDF}: 16.4/21$

All: 267.490 ± 156.285 $\chi^2/\text{NDF}: 42.7/39$

asym_sam_1548_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 641.507+/-0.182 χ^2/NDF : 1874950.0/15

Left Out: 662.798+/-0.331 χ^2/NDF : 96723.7/2

Right Out: 600.975+/-0.169 χ^2/NDF : 2077232.5/18

Left In: 676.735+/-0.368 χ^2/NDF : 60166.1/1

Left: 669.032+/-0.246 χ^2/NDF : 157681.5/4

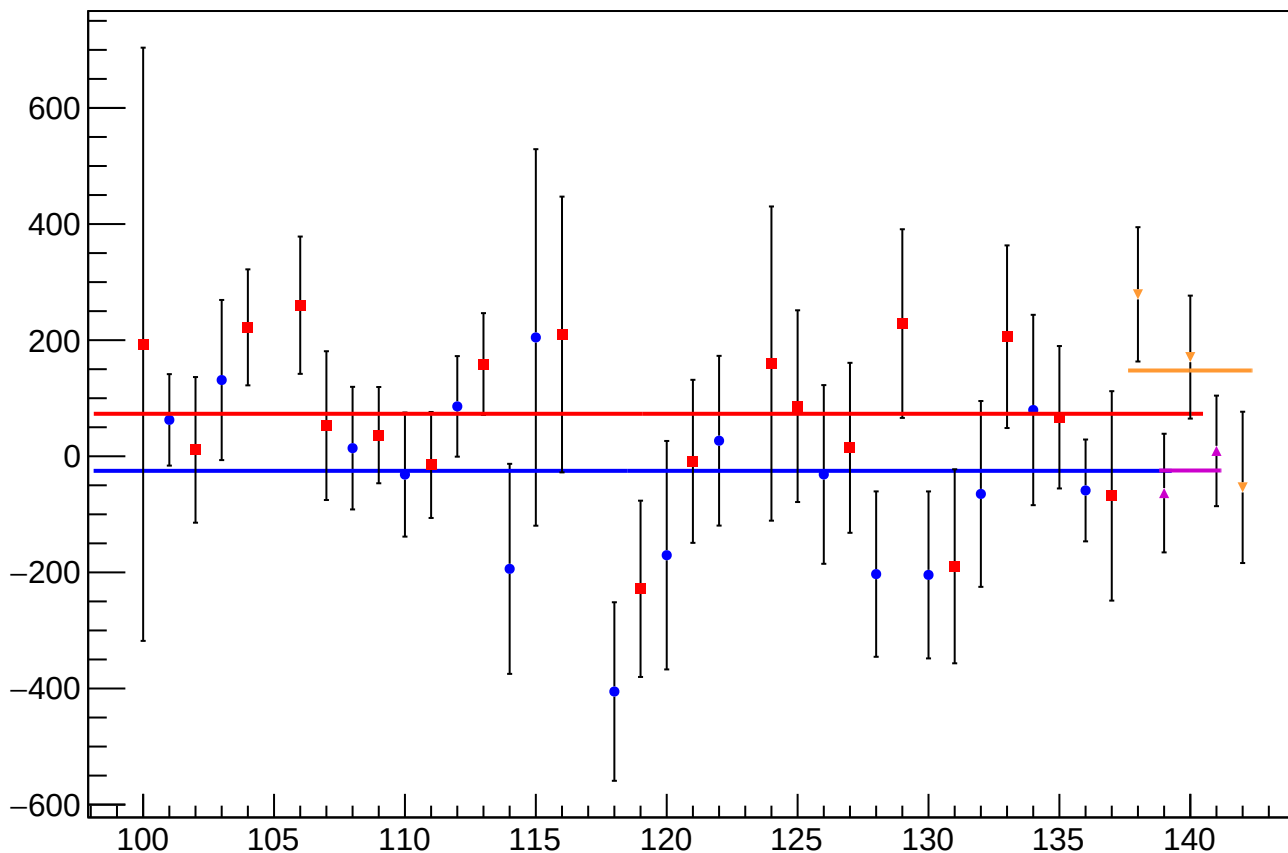
Right: 619.742+/-0.124 χ^2/NDF : 3978895.7/34

In: 648.406+/-0.163 χ^2/NDF : 1942474.6/17

Out: 613.710+/-0.150 χ^2/NDF : 2201605.4/21

All: 629.665+/-0.111 χ^2/NDF : 4168563.4/39

eigen_cor_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -25.075 ± 31.230 χ^2/NDF : 16.2/15

Left Out: 147.762 ± 66.999 χ^2/NDF : 3.7/2

Right Out: 73.193 ± 29.937 χ^2/NDF : 16.7/18

Left In: -24.489 ± 69.657 χ^2/NDF : 0.3/1

Left: 64.985 ± 48.288 χ^2/NDF : 7.2/4

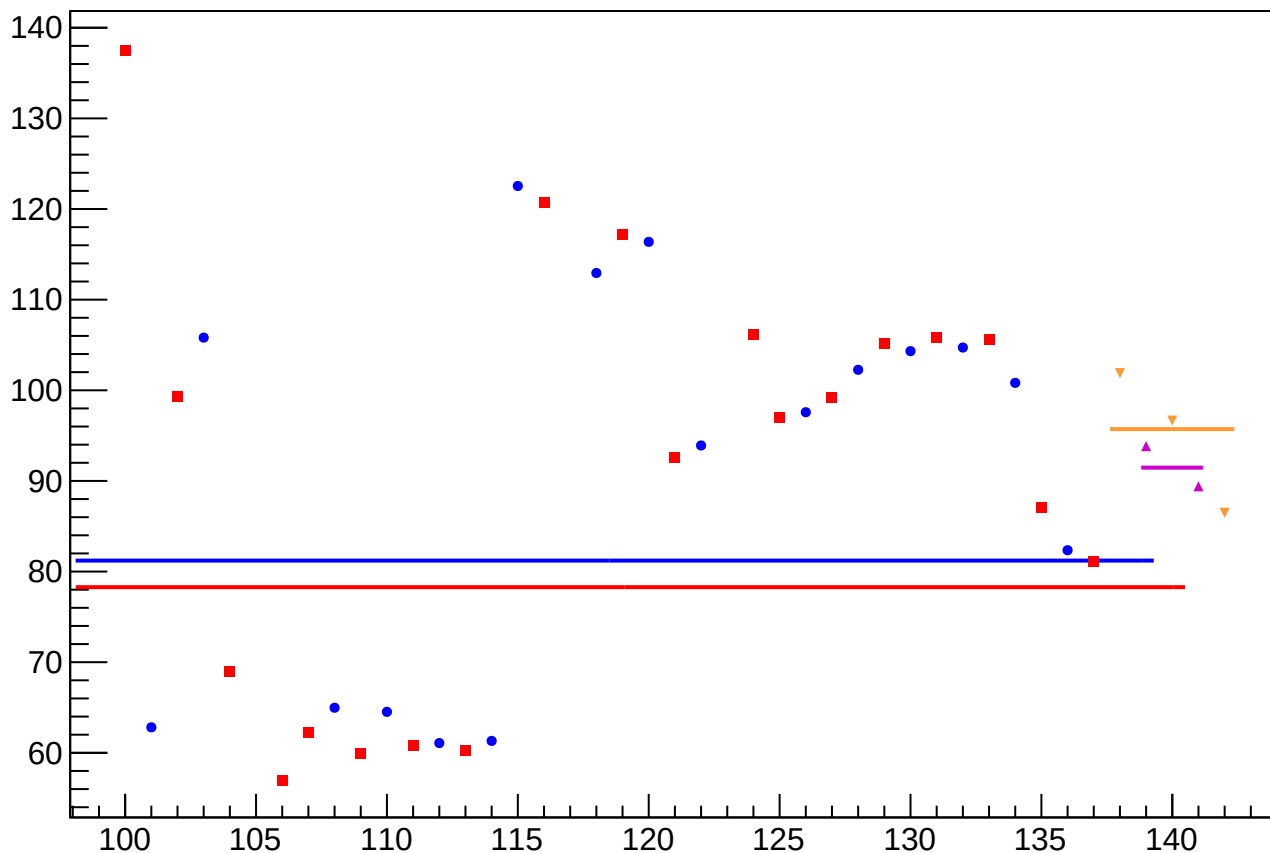
Right: 26.135 ± 21.611 χ^2/NDF : 38.1/34

In: -24.977 ± 28.497 χ^2/NDF : 16.5/17

Out: 85.603 ± 27.332 χ^2/NDF : 21.5/21

All: 32.618 ± 19.726 χ^2/NDF : 45.8/39

eigen_cor_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 81.210 $\pm$ 0.022 χ^2 /NDF: 787679.3/15

Left Out: 95.720 $\pm$ 0.047 χ^2 /NDF:15885.4/2

Right Out: 78.279 $\pm$ 0.021 χ^2 /NDF: 936812.2/18

Left In: 91.467 $\pm$ 0.049 χ^2 /NDF:2013.3/1

Left: 93.677 $\pm$ 0.034 χ^2 /NDF: 21771.3/4

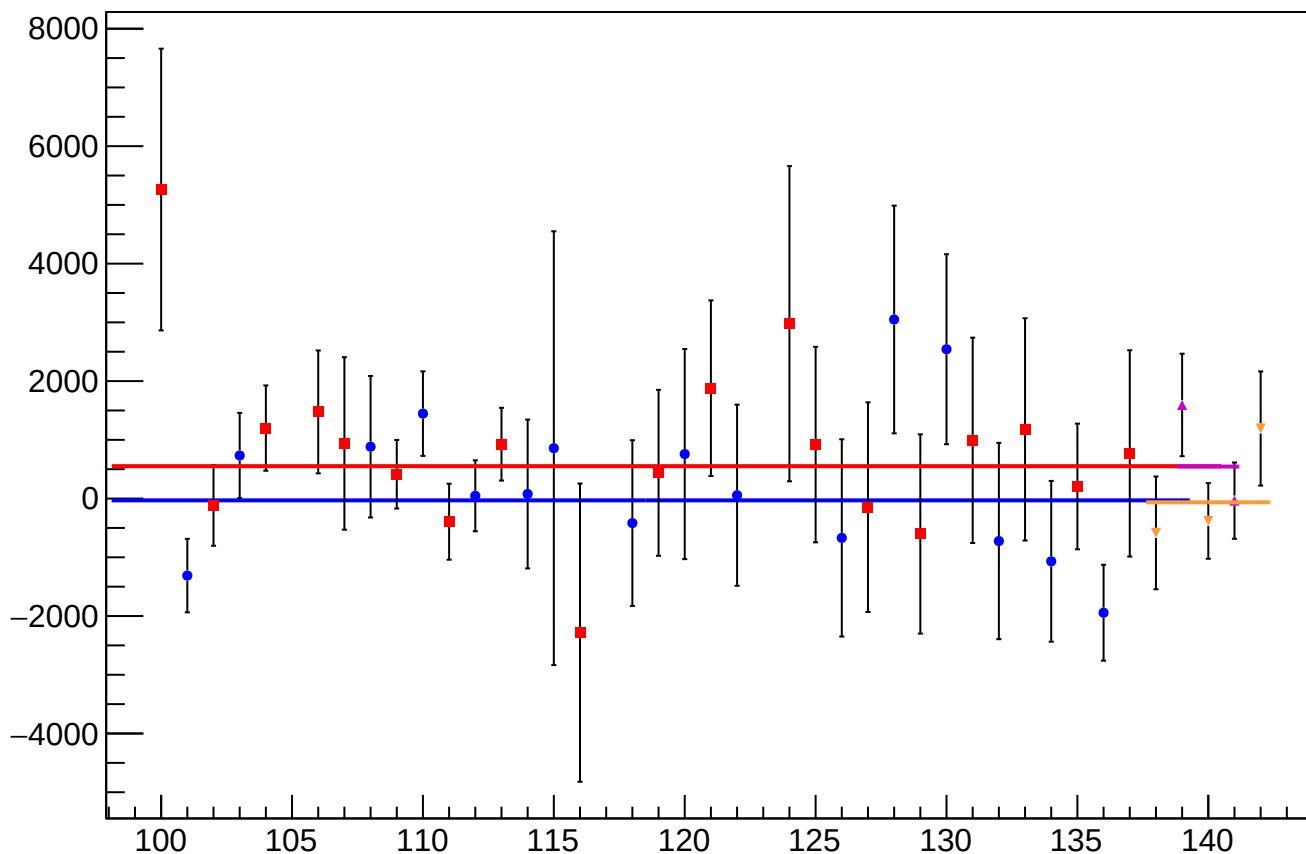
Right: 79.683 $\pm$ 0.015 χ^2 /NDF: 1733667.8/34

In: 82.926 $\pm$ 0.020 χ^2 /NDF:825806.2/17

Out: 81.182 $\pm$ 0.019 χ^2 /NDF:1065672.5/21

All: 82.018 $\pm$ 0.014 χ^2 /NDF: 1895382.8/39

asym_sam_1548_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -30.434 ± 257.002 $\chi^2/\text{NDF}: 21.9/15$

Left Out: -63.513 ± 468.523 $\chi^2/\text{NDF}: 2.2/2$

Right Out: 551.948 ± 238.640 $\chi^2/\text{NDF}: 12.8/18$

Left In: 545.114 ± 520.818 $\chi^2/\text{NDF}: 2.2/1$

Left: 208.719 ± 348.321 $\chi^2/\text{NDF}: 5.2/4$

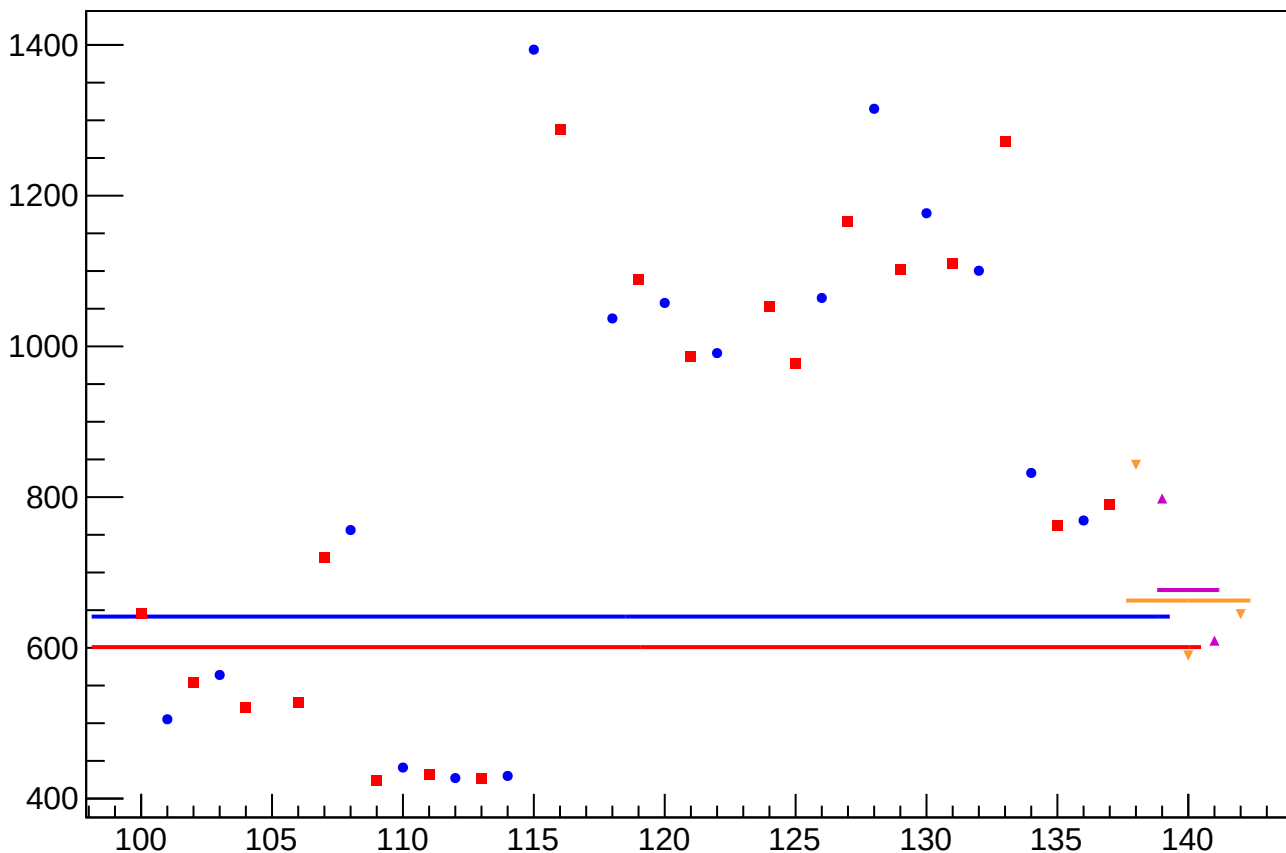
Right: 282.303 ± 174.876 $\chi^2/\text{NDF}: 37.4/34$

In: 82.270 ± 230.470 $\chi^2/\text{NDF}: 25.1/17$

Out: 425.168 ± 212.645 $\chi^2/\text{NDF}: 16.4/21$

All: 267.490 ± 156.285 $\chi^2/\text{NDF}: 42.7/39$

asym_sam_1548_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 641.507+/-0.182 χ^2/NDF : 1874950.0/15

Left Out: 662.798+/-0.331 χ^2/NDF : 96723.7/2

Right Out: 600.975+/-0.169 χ^2/NDF : 2077232.5/18

Left In: 676.735+/-0.368 χ^2/NDF : 60166.1/1

Left: 669.032+/-0.246 χ^2/NDF : 157681.5/4

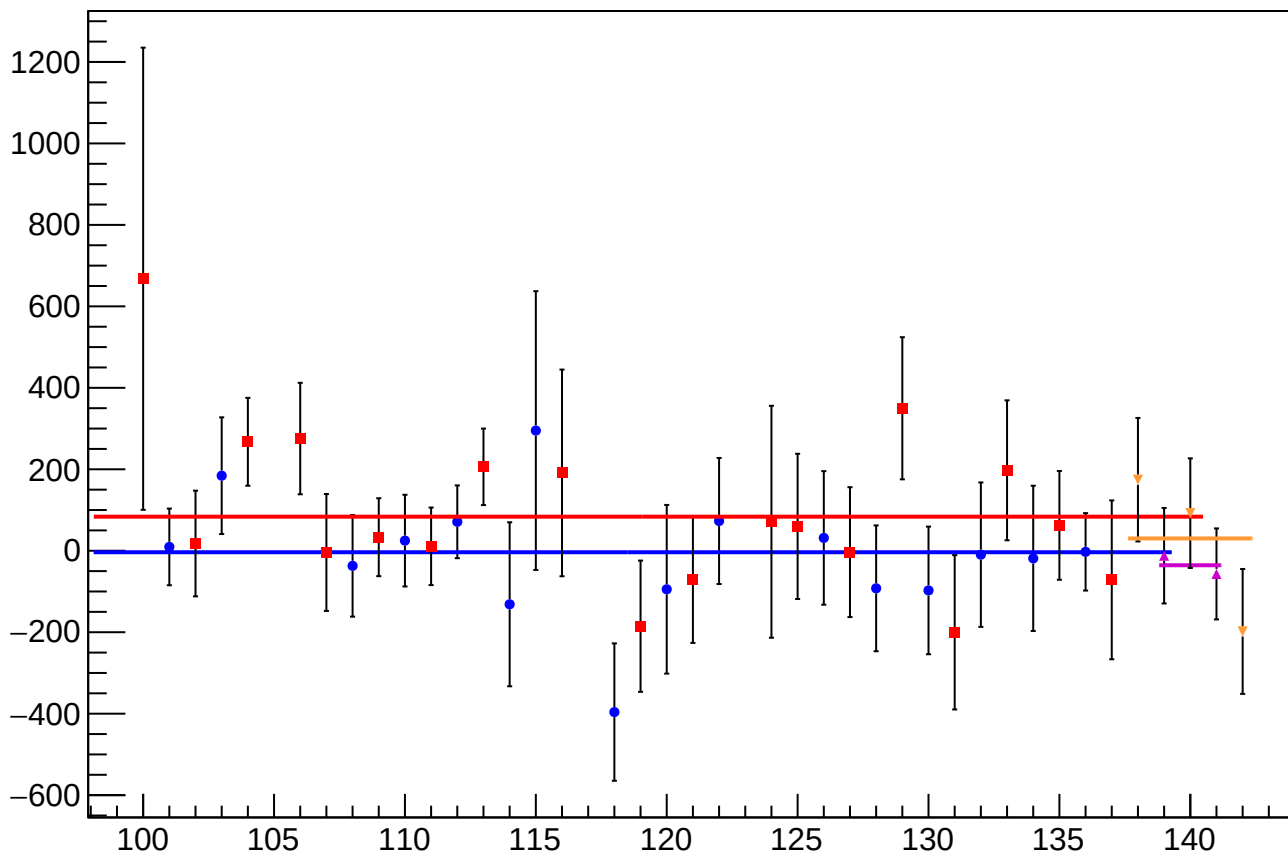
Right: 619.742+/-0.124 χ^2/NDF : 3978895.7/34

In: 648.406+/-0.163 χ^2/NDF : 1942474.6/17

Out: 613.710+/-0.150 χ^2/NDF : 2201605.4/21

All: 629.665+/-0.111 χ^2/NDF : 4168563.4/39

dit_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -3.635 ± 34.152 $\chi^2/\text{NDF}: 10.3/15$

Left Out: 30.232 ± 84.121 $\chi^2/\text{NDF}: 3.3/2$

Right Out: 83.676 ± 32.633 $\chi^2/\text{NDF}: 19.1/18$

Left In: -35.594 ± 80.873 $\chi^2/\text{NDF}: 0.1/1$

Left: -3.977 ± 58.300 $\chi^2/\text{NDF}: 3.7/4$

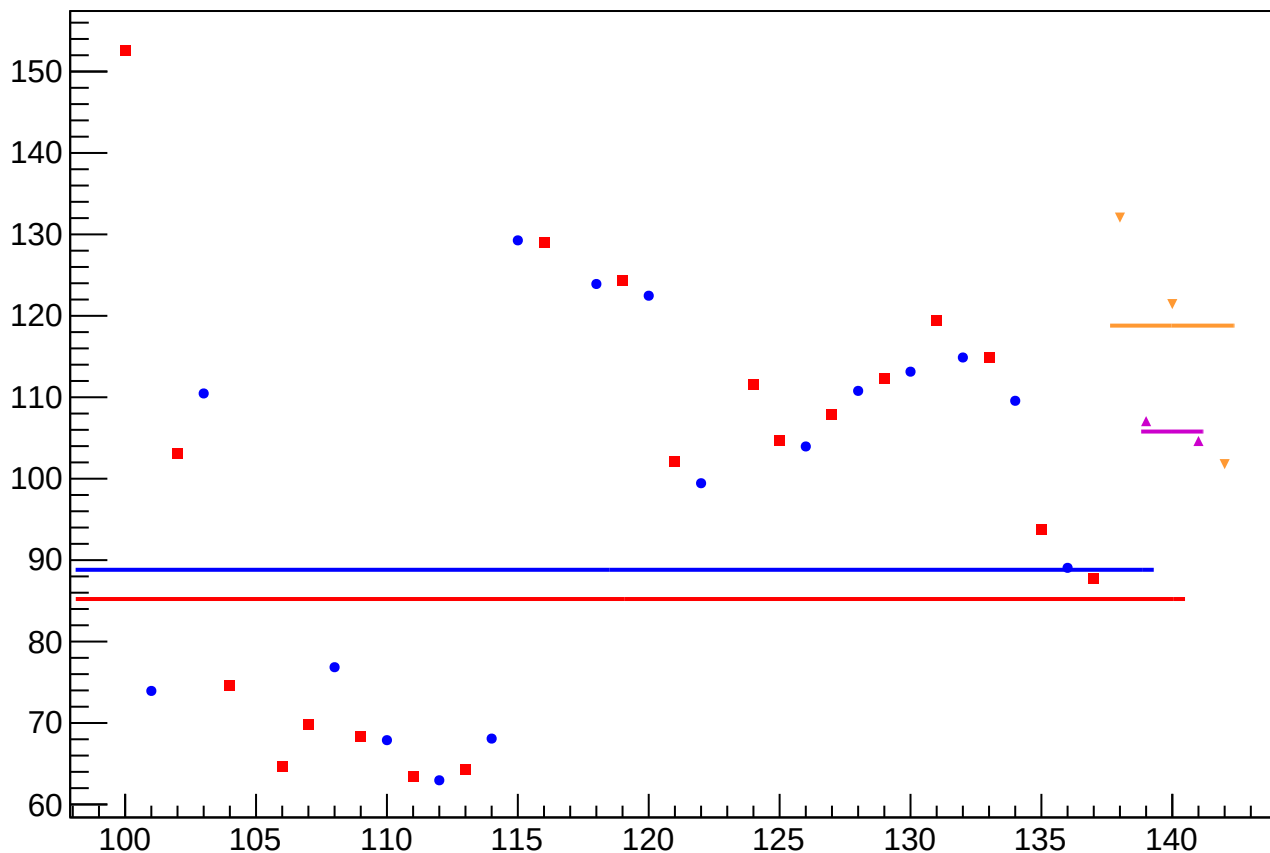
Right: 42.007 ± 23.594 $\chi^2/\text{NDF}: 32.8/34$

In: -8.472 ± 31.462 $\chi^2/\text{NDF}: 10.5/17$

Out: 76.686 ± 30.424 $\chi^2/\text{NDF}: 22.7/21$

All: 35.535 ± 21.871 $\chi^2/\text{NDF}: 37.1/39$

dit_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 88.813 $\pm$ 0.024 χ^2 /NDF: 724609.8/15

Left Out: 118.798 $\pm$ 0.059 χ^2 /NDF: 40699.4/2

Right Out: 85.225 $\pm$ 0.023 χ^2 /NDF: 884071.4/18

Left In: 105.790 $\pm$ 0.057 χ^2 /NDF: 453.2/1

Left: 112.038 $\pm$ 0.041 χ^2 /NDF: 66005.4/4

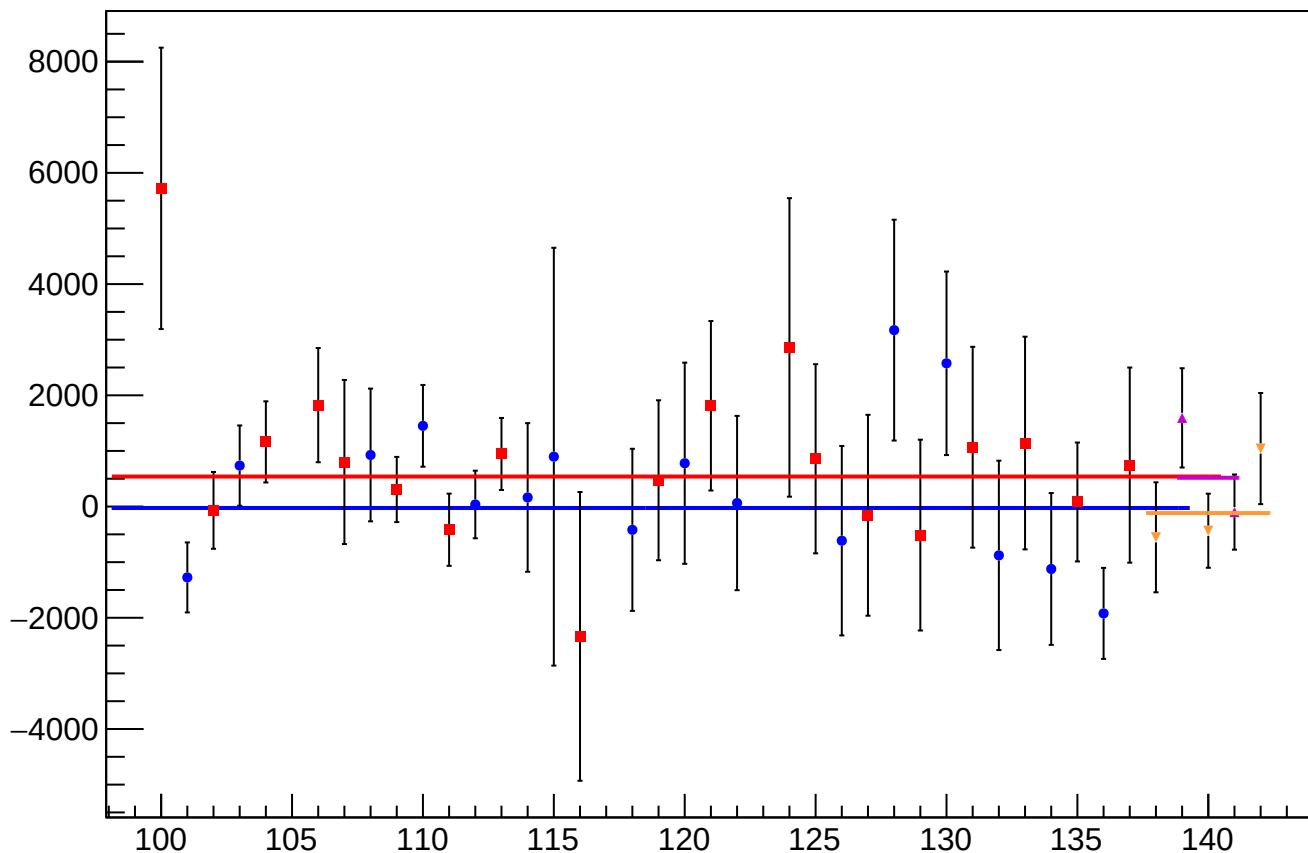
Right: 86.937 $\pm$ 0.017 χ^2 /NDF: 1620225.0/34

In: 91.383 $\pm$ 0.022 χ^2 /NDF: 799854.6/17

Out: 89.616 $\pm$ 0.022 χ^2 /NDF: 1201670.7/21

All: 90.470 $\pm$ 0.015 χ^2 /NDF: 2004783.9/39

asym_sam_1548_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -25.770 ± 259.401 χ^2/NDF : 21.6/15

Left Out: -117.469 ± 483.412 χ^2/NDF : 1.8/2

Right Out: 539.635 ± 241.238 χ^2/NDF : 13.6/18

Left In: 517.420 ± 538.679 χ^2/NDF : 2.3/1

Left: 165.746 ± 359.782 χ^2/NDF : 4.8/4

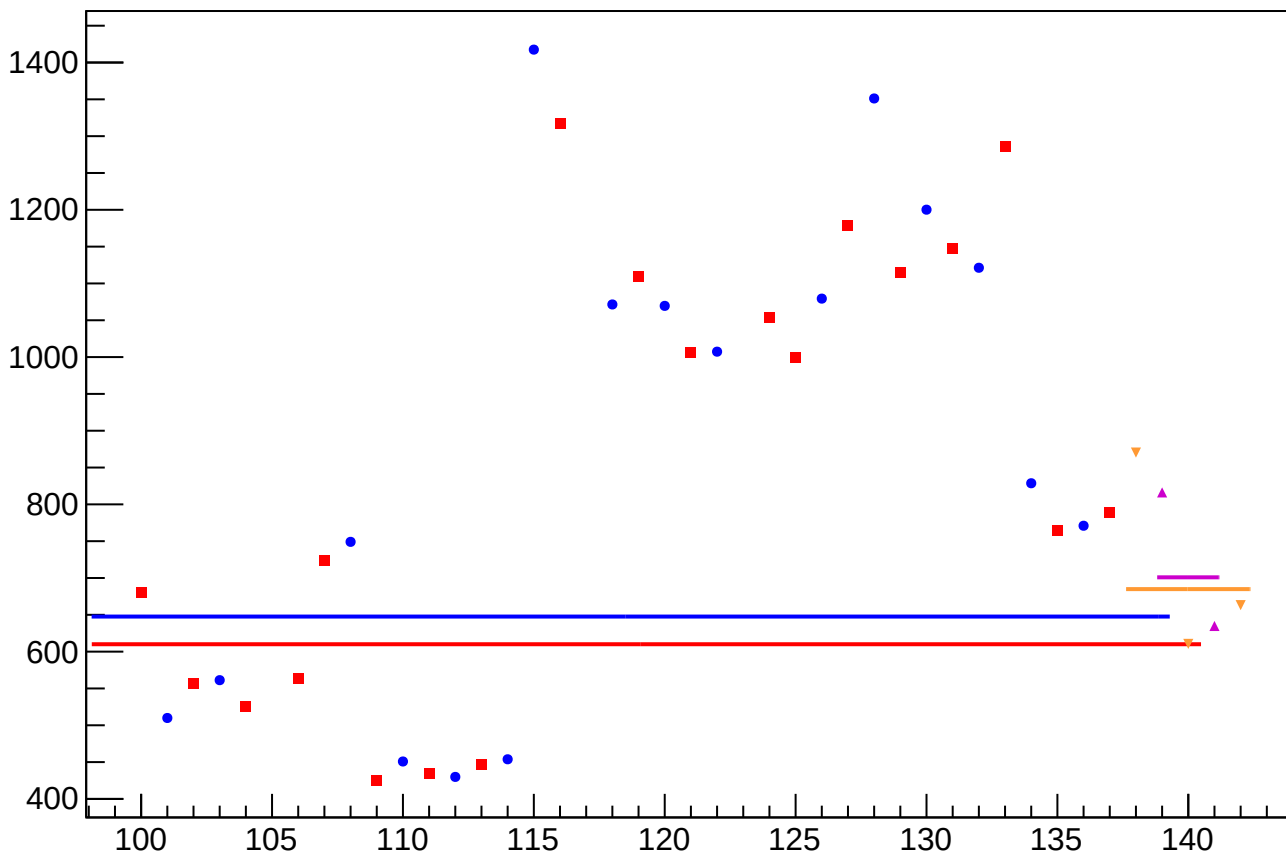
Right: 277.418 ± 176.654 χ^2/NDF : 37.7/34

In: 76.480 ± 233.715 χ^2/NDF : 24.7/17

Out: 408.621 ± 215.854 χ^2/NDF : 16.9/21

All: 255.726 ± 158.570 χ^2/NDF : 42.6/39

asym_sam_1548_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 647.641 $\pm$ 0.183 χ^2 /NDF: 1887815.9/15

Left Out: 684.912 $\pm$ 0.342 χ^2 /NDF:96218.6/2

Right Out: 610.061 $\pm$ 0.171 χ^2 /NDF: 2074248.2/18

Left In: 700.913 $\pm$ 0.381 χ^2 /NDF:52503.9/1

Left: 692.050 $\pm$ 0.254 χ^2 /NDF: 149699.8/4

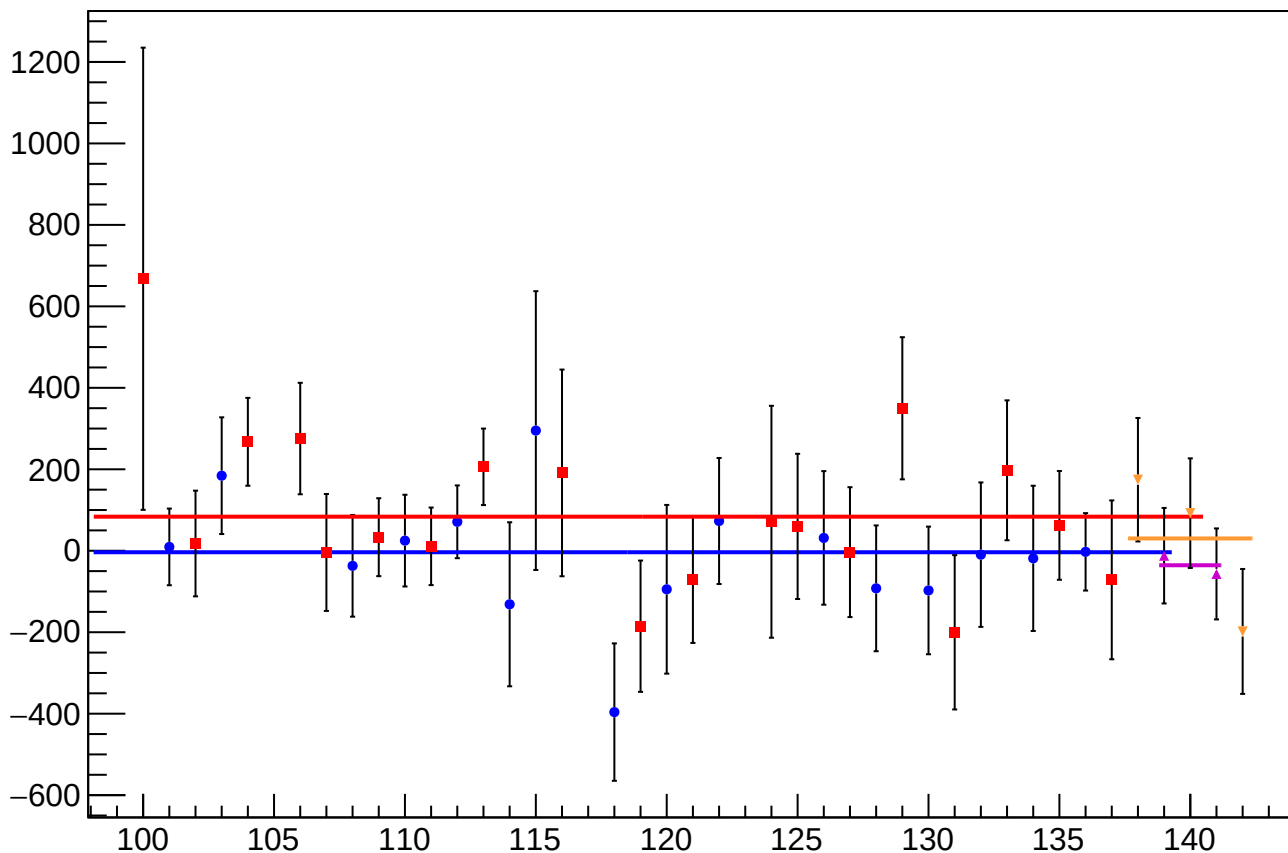
Right: 627.489 $\pm$ 0.125 χ^2 /NDF: 3984572.9/34

In: 657.669 $\pm$ 0.165 χ^2 /NDF:1956197.8/17

Out: 624.985 $\pm$ 0.153 χ^2 /NDF:2208857.0/21

All: 640.030 $\pm$ 0.112 χ^2 /NDF: 4186163.1/39

eigen_dit_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -3.633 ± 34.152 $\chi^2/\text{NDF}: 10.3/15$

Left Out: 30.233 ± 84.121 $\chi^2/\text{NDF}: 3.3/2$

Right Out: 83.676 ± 32.633 $\chi^2/\text{NDF}: 19.1/18$

Left In: -35.594 ± 80.873 $\chi^2/\text{NDF}: 0.1/1$

Left: -3.976 ± 58.300 $\chi^2/\text{NDF}: 3.7/4$

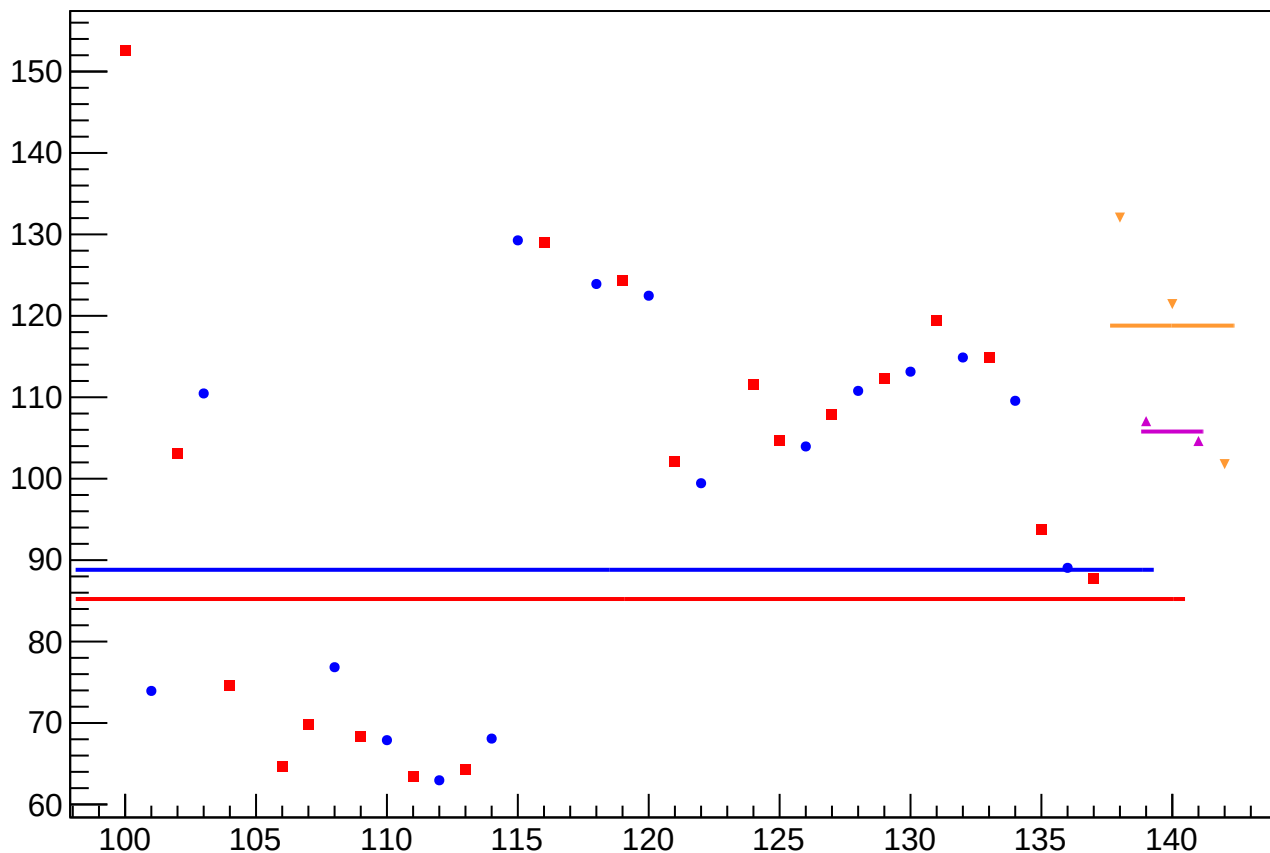
Right: 42.007 ± 23.594 $\chi^2/\text{NDF}: 32.8/34$

In: -8.470 ± 31.462 $\chi^2/\text{NDF}: 10.5/17$

Out: 76.686 ± 30.424 $\chi^2/\text{NDF}: 22.7/21$

All: 35.536 ± 21.871 $\chi^2/\text{NDF}: 37.1/39$

eigen_dit_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 88.813+/-0.024 χ^2/NDF : 724609.7/15

Left Out: 118.798+/-0.059 χ^2/NDF : 40698.2/2

Right Out: 85.225+/-0.023 χ^2/NDF : 884073.3/18

Left In: 105.790+/-0.057 χ^2/NDF : 453.1/1

Left: 112.038+/-0.041 χ^2/NDF : 66004.5/4

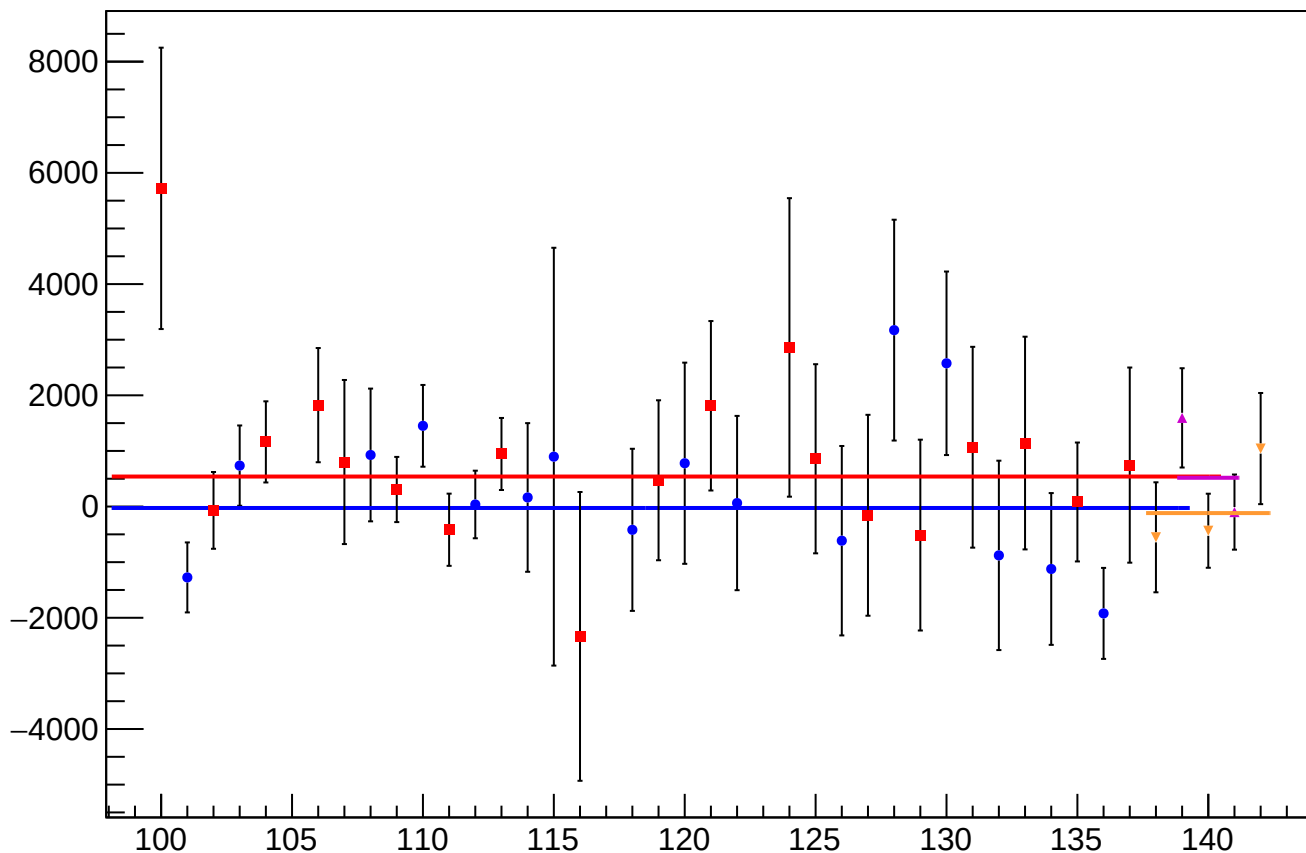
Right: 86.937+/-0.017 χ^2/NDF : 1620226.9/34

In: 91.383+/-0.022 χ^2/NDF : 799856.0/17

Out: 89.616+/-0.022 χ^2/NDF : 1201676.1/21

All: 90.470+/-0.015 χ^2/NDF : 2004790.7/39

asym_sam_1548_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -25.770 ± 259.401 χ^2/NDF : 21.6/15

Left Out: -117.470 ± 483.412 χ^2/NDF : 1.8/2

Right Out: 539.635 ± 241.238 χ^2/NDF : 13.6/18

Left In: 517.421 ± 538.678 χ^2/NDF : 2.3/1

Left: 165.745 ± 359.781 χ^2/NDF : 4.8/4

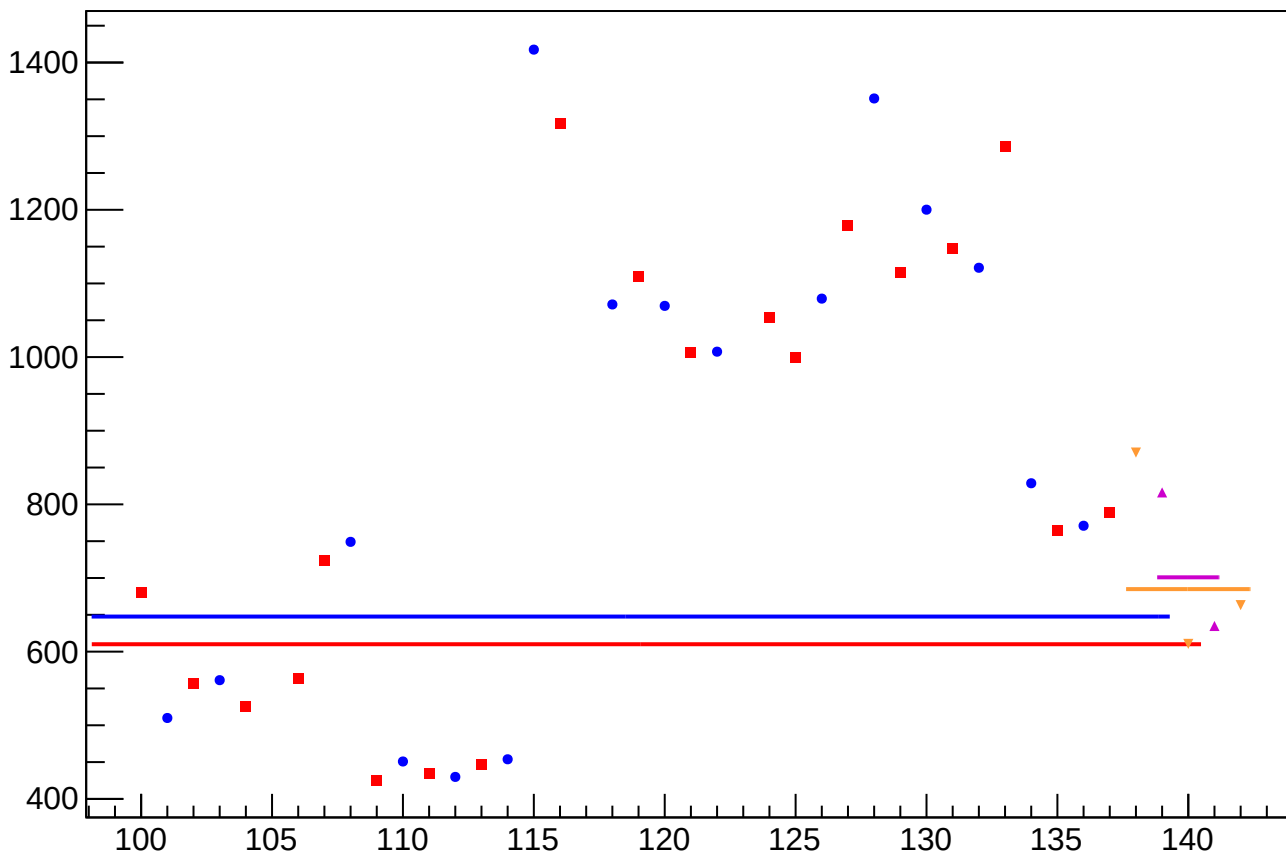
Right: 277.418 ± 176.653 χ^2/NDF : 37.7/34

In: 76.480 ± 233.714 χ^2/NDF : 24.7/17

Out: 408.621 ± 215.853 χ^2/NDF : 16.9/21

All: 255.725 ± 158.570 χ^2/NDF : 42.6/39

asym_sam_1548_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 647.640 +/- 0.183 χ^2/NDF : 1887820.6/15

Left Out: 684.912 +/- 0.342 χ^2/NDF : 96218.4/2

Right Out: 610.060 +/- 0.171 χ^2/NDF : 2074251.1/18

Left In: 700.912 +/- 0.381 χ^2/NDF : 52504.1/1

Left: 692.049 +/- 0.254 χ^2/NDF : 149699.8/4

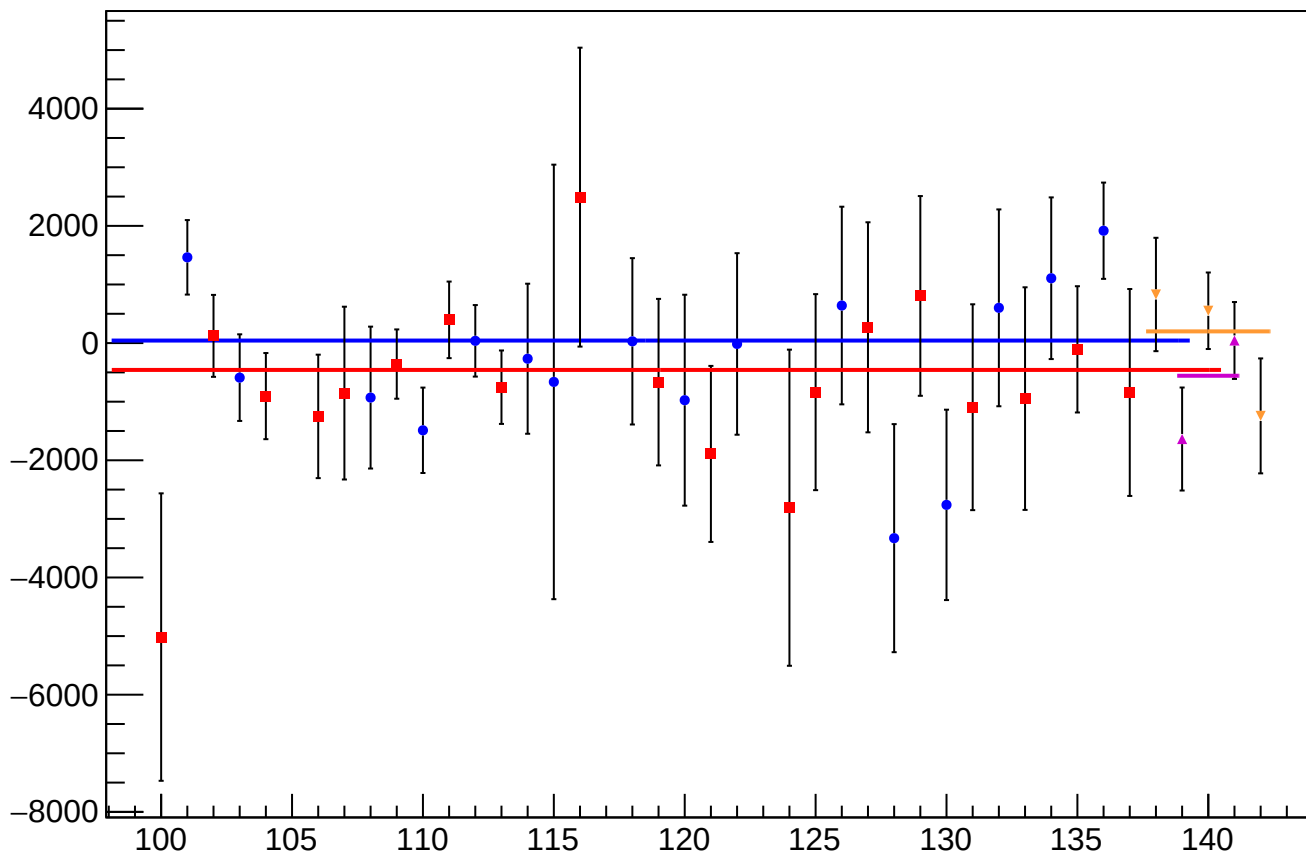
Right: 627.488 +/- 0.125 χ^2/NDF : 3984580.5/34

In: 657.668 +/- 0.165 χ^2/NDF : 1956202.9/17

Out: 624.984 +/- 0.153 χ^2/NDF : 2208860.1/21

All: 640.029 +/- 0.112 χ^2/NDF : 4186171.3/39

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 43.152+/-259.796 χ^2/NDF : 23.2/15

Left Out: 199.595+/-473.778 χ^2/NDF : 2.9/2

Right Out: -458.111+/-241.118 χ^2/NDF : 11.3/18

Left In: -557.490+/-525.774 χ^2/NDF : 2.4/1

Left: -139.670+/-351.963 χ^2/NDF : 6.4/4

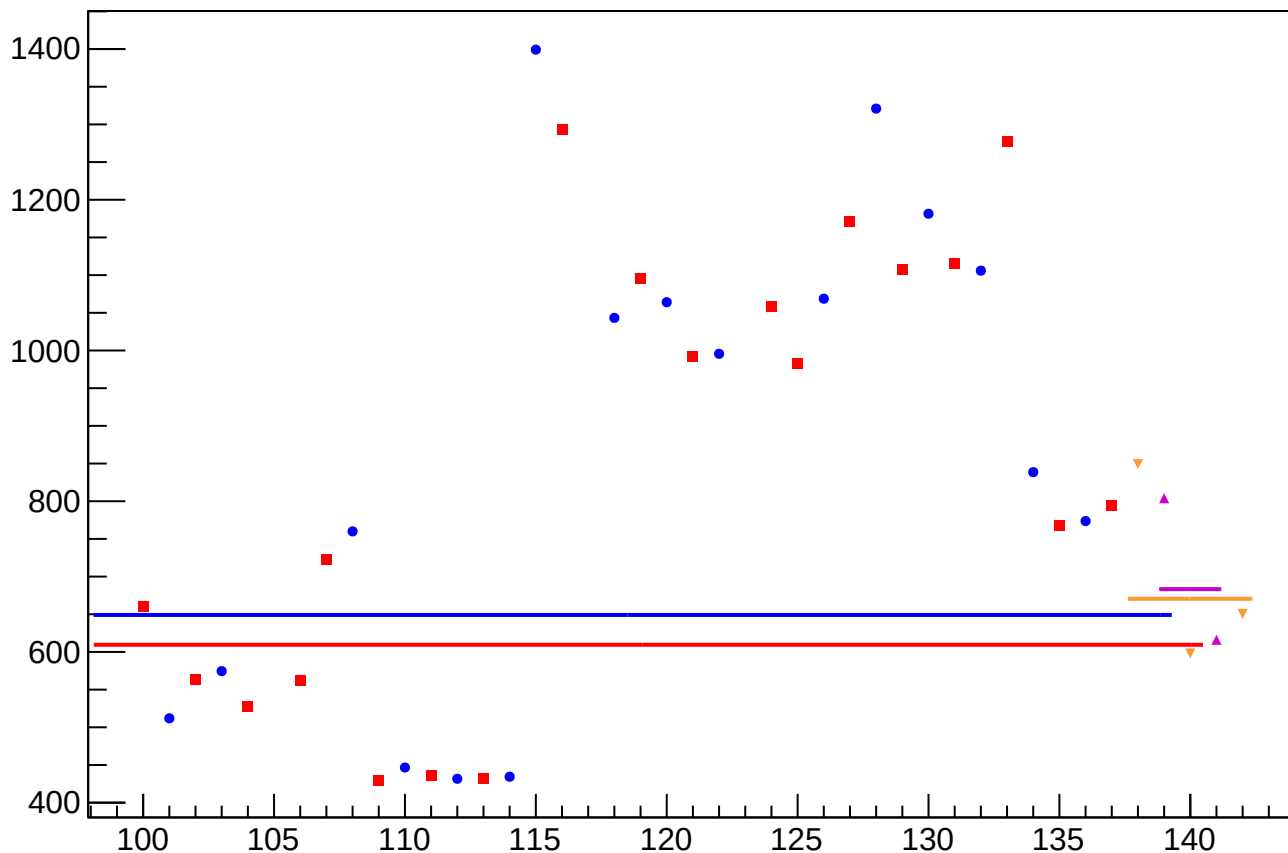
Right: -226.145+/-176.731 χ^2/NDF : 36.5/34

In: -74.719+/-232.914 χ^2/NDF : 26.6/17

Out: -322.806+/-214.889 χ^2/NDF : 15.7/21

All: -208.732+/-157.938 χ^2/NDF : 42.9/39

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 649.091+/-0.184 χ^2/NDF : 1845815.6/15

Left Out: 670.510+/-0.335 χ^2/NDF : 93778.0/2

Right Out: 609.516+/-0.170 χ^2/NDF : 2043591.1/18

Left In: 683.385+/-0.372 χ^2/NDF : 58636.1/1

Left: 676.279+/-0.249 χ^2/NDF : 153076.1/4

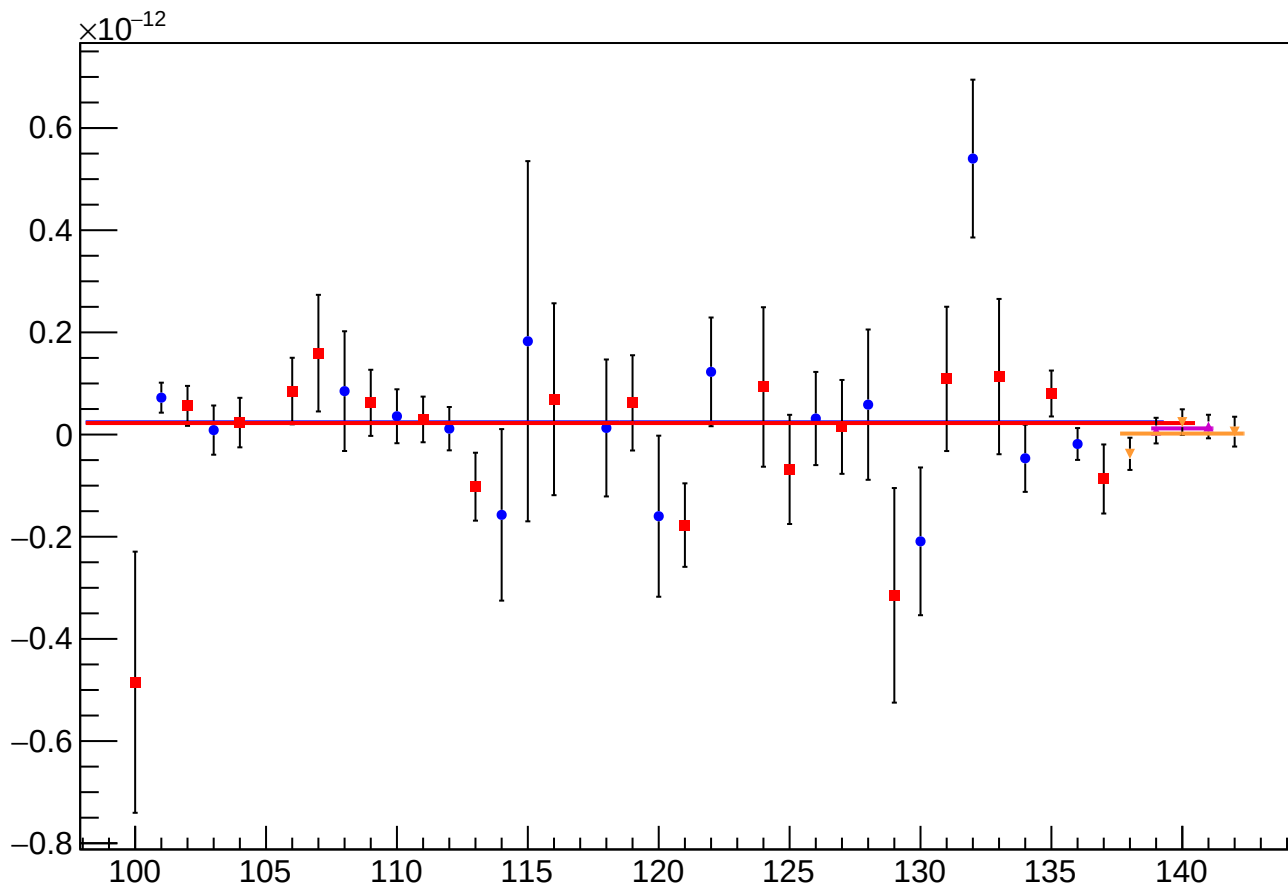
Right: 627.830+/-0.125 χ^2/NDF : 3914338.8/34

In: 655.821+/-0.165 χ^2/NDF : 1911290.9/17

Out: 622.064+/-0.152 χ^2/NDF : 2163697.1/21

All: 637.586+/-0.112 χ^2/NDF : 4097681.5/39

asym_sam_1548_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 25.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.1/1

Left: 0.000+/-0.000 χ^2/NDF : 2.6/4

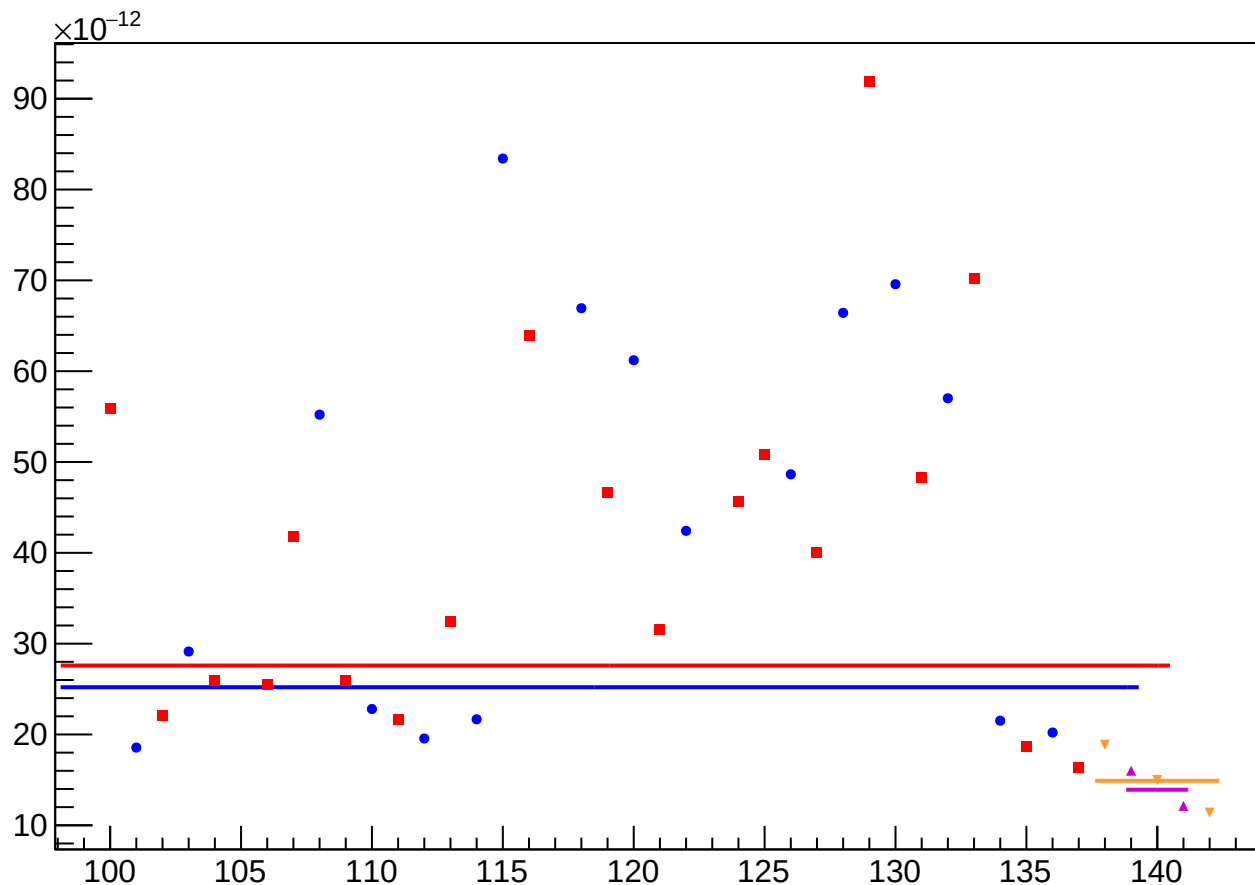
Right: 0.000+/-0.000 χ^2/NDF : 49.3/34

In: 0.000+/-0.000 χ^2/NDF : 24.0/17

Out: 0.000+/-0.000 χ^2/NDF : 28.9/21

All: 0.000+/-0.000 χ^2/NDF : 53.0/39

asym_sam_1548_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1312245.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 60475.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 988490.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 25841.3/1

Left: 0.000+/-0.000 χ^2/NDF : 89832.3/4

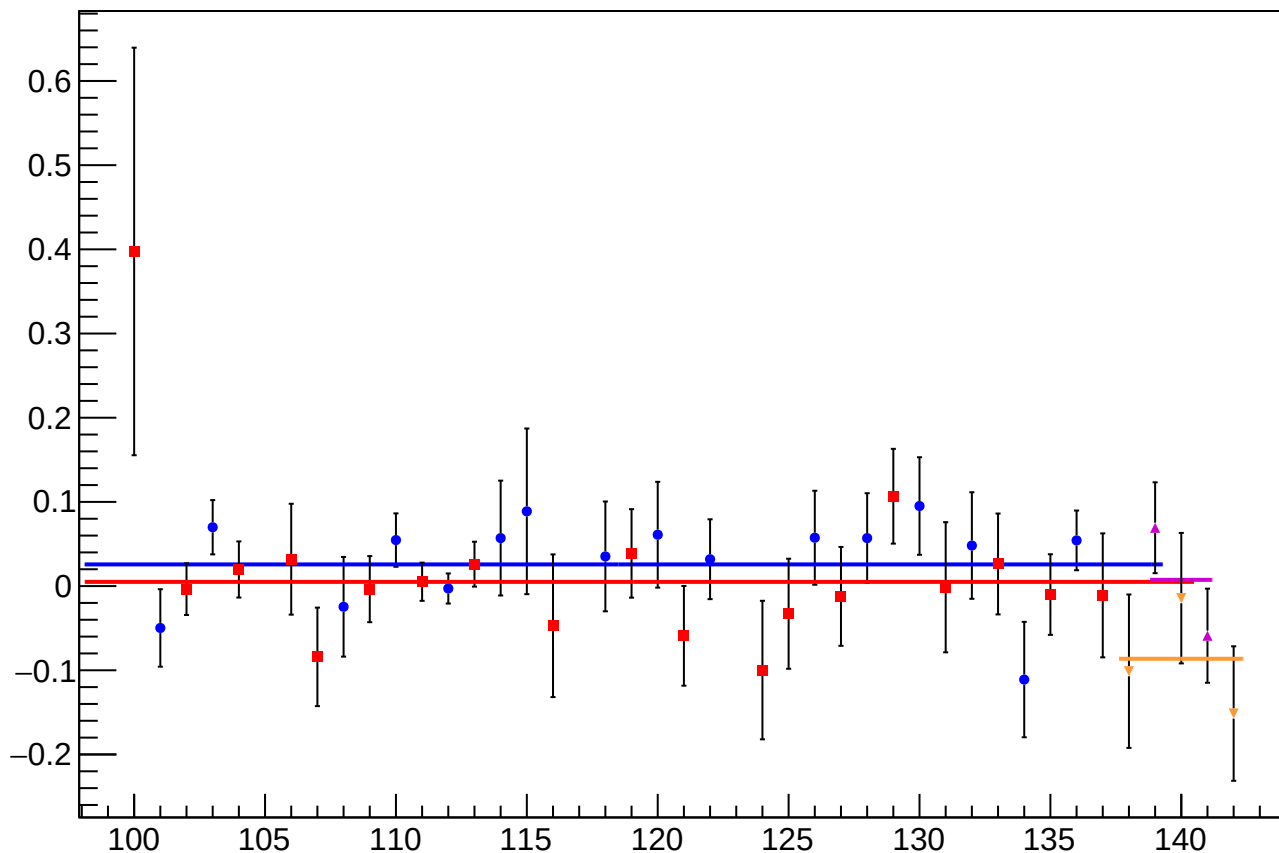
Right: 0.000+/-0.000 χ^2/NDF : 2323625.0/34

In: 0.000+/-0.000 χ^2/NDF : 1828678.0/17

Out: 0.000+/-0.000 χ^2/NDF : 1653405.1/21

All: 0.000+/-0.000 χ^2/NDF : 3490588.6/39

asym_sam_1548_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.010 χ^2 /NDF: 16.5/15

Left Out: -0.086 $\pm$ 0.047 χ^2 /NDF:1.6/2

Right Out: 0.005 $\pm$ 0.010 χ^2 /NDF: 13.6/18

Left In: 0.007 $\pm$ 0.039 χ^2 /NDF:2.7/1

Left: -0.030 $\pm$ 0.030 χ^2 /NDF: 6.6/4

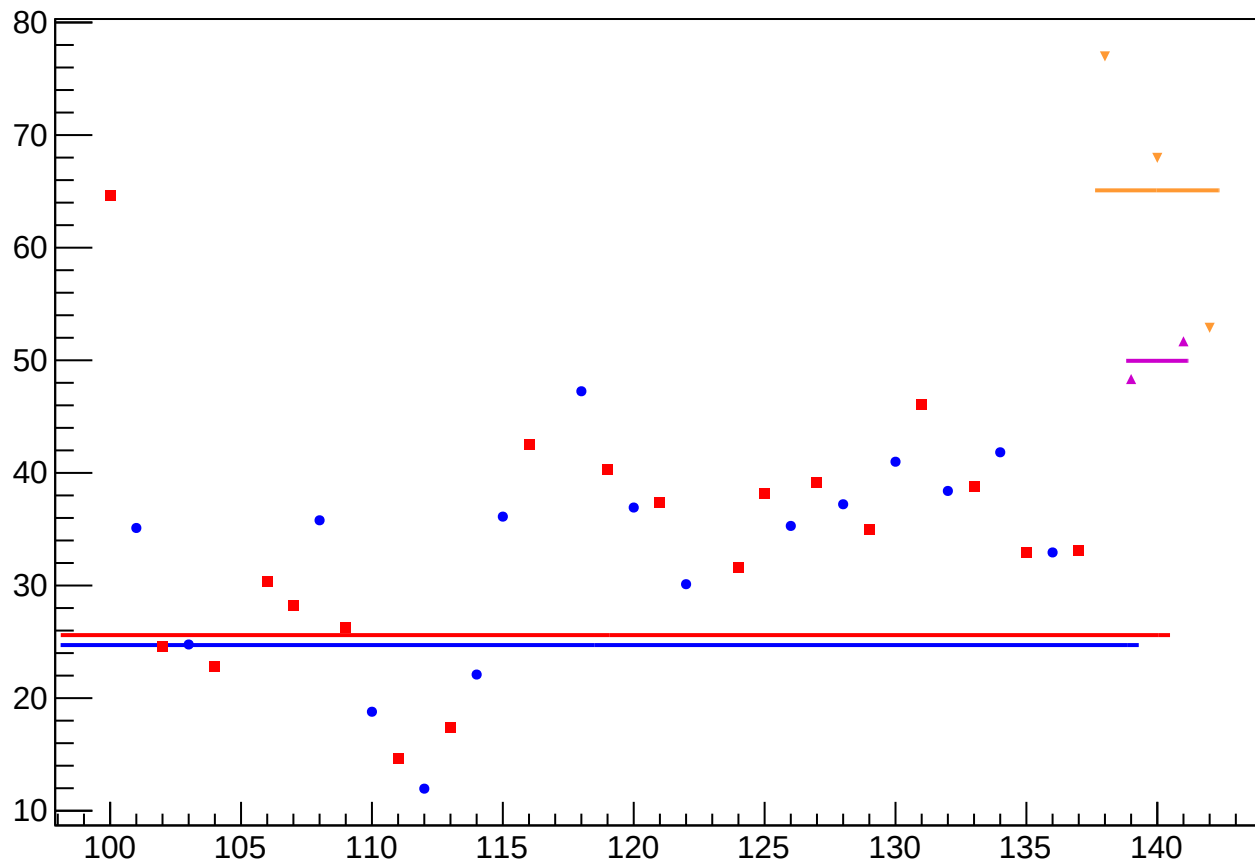
Right: 0.015 $\pm$ 0.007 χ^2 /NDF: 32.1/34

In: 0.025 $\pm$ 0.010 χ^2 /NDF:19.4/17

Out: 0.001 $\pm$ 0.010 χ^2 /NDF:18.7/21

All: 0.013 $\pm$ 0.007 χ^2 /NDF: 40.9/39

asym_sam_1548_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.712 $\pm$ 0.007 χ^2 /NDF: 2295174.7/15

Left Out: 65.091 $\pm$ 0.034 χ^2 /NDF: 83537.5/2

Right Out: 25.597 $\pm$ 0.007 χ^2 /NDF: 1605235.8/18

Left In: 49.954 $\pm$ 0.027 χ^2 /NDF: 3719.8/1

Left: 56.019 $\pm$ 0.021 χ^2 /NDF: 209081.5/4

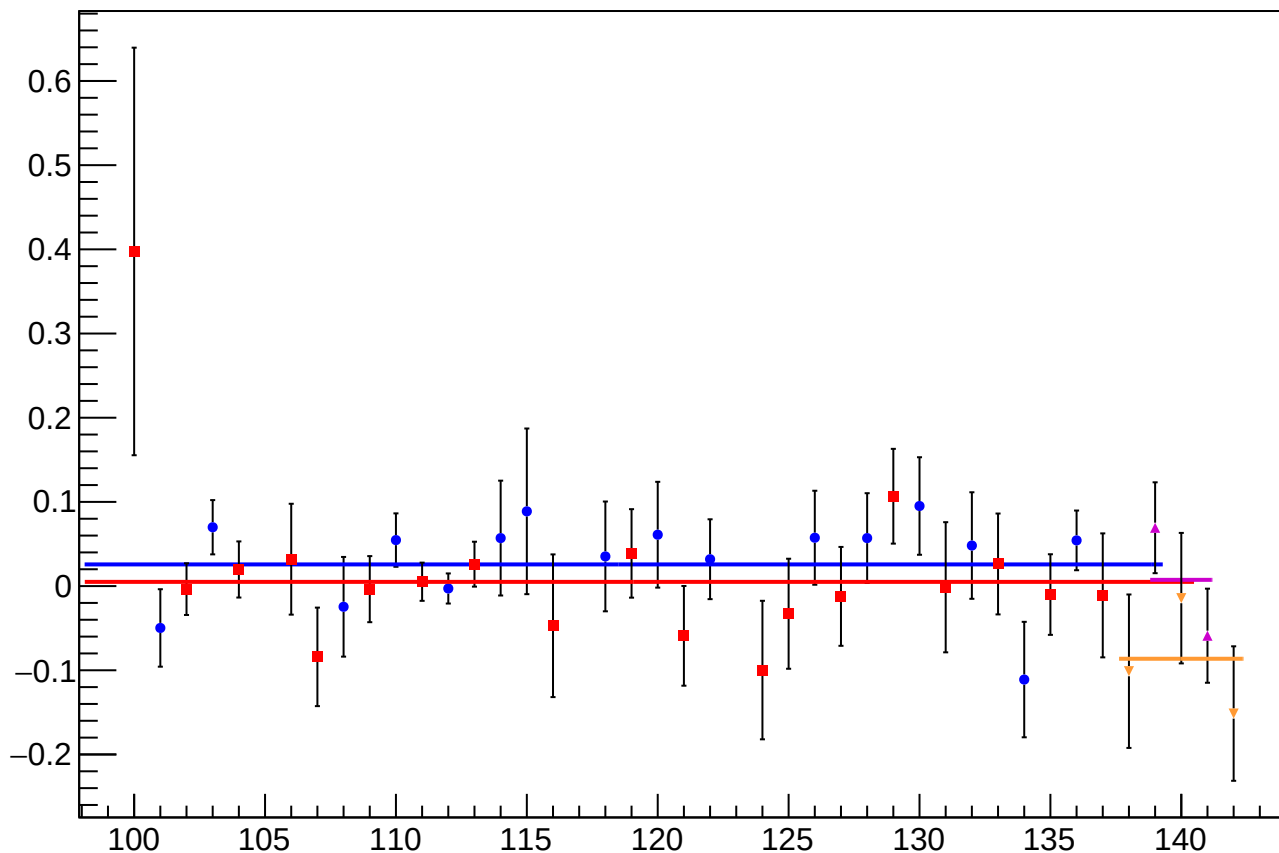
Right: 25.155 $\pm$ 0.005 χ^2 /NDF: 3907717.2/34

In: 26.389 $\pm$ 0.007 χ^2 /NDF: 3088141.7/17

Out: 27.388 $\pm$ 0.007 χ^2 /NDF: 3009828.5/21

All: 26.883 $\pm$ 0.005 χ^2 /NDF: 6107833.0/39

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.010 χ^2 /NDF: 16.5/15

Left Out: -0.086 $\pm$ 0.047 χ^2 /NDF:1.6/2

Right Out: 0.005 $\pm$ 0.010 χ^2 /NDF: 13.6/18

Left In: 0.007 $\pm$ 0.039 χ^2 /NDF:2.7/1

Left: -0.030 $\pm$ 0.030 χ^2 /NDF: 6.6/4

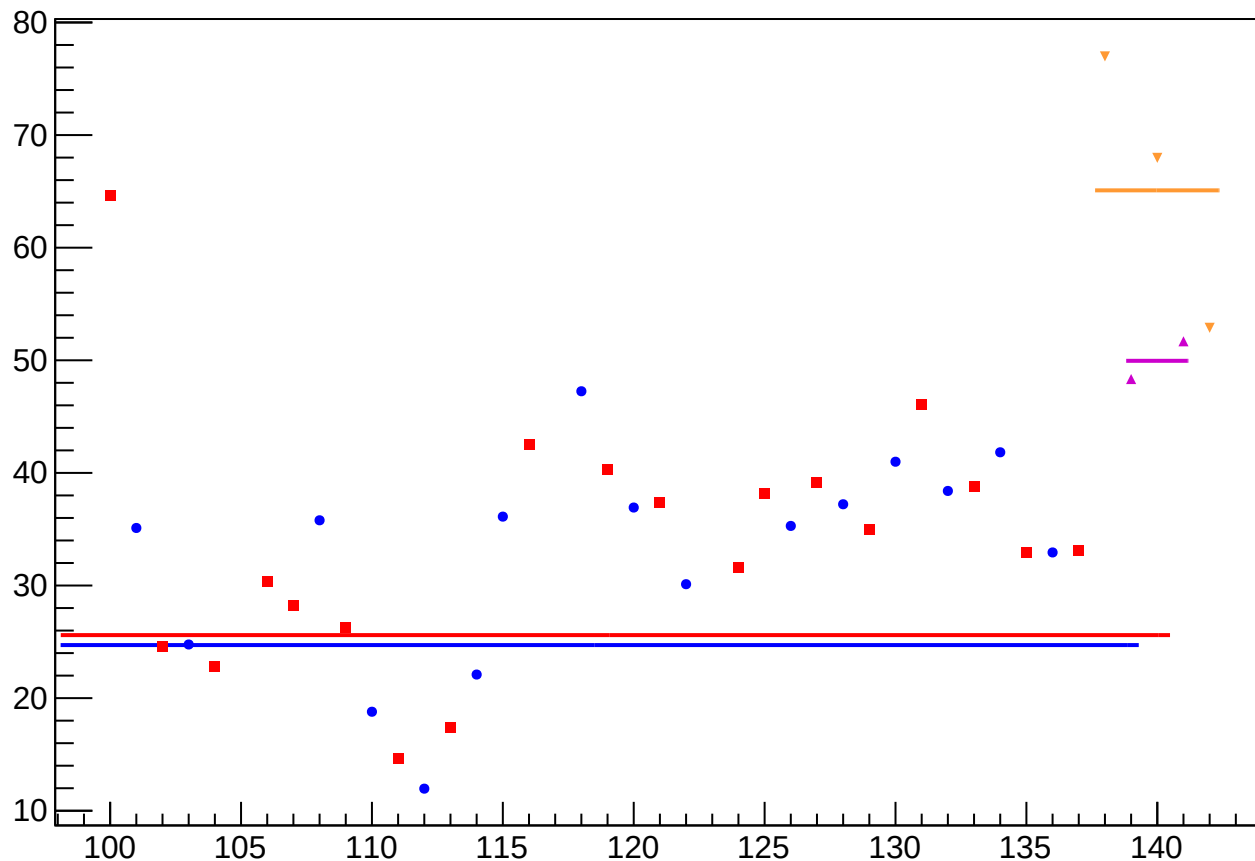
Right: 0.015 $\pm$ 0.007 χ^2 /NDF: 32.1/34

In: 0.025 $\pm$ 0.010 χ^2 /NDF:19.4/17

Out: 0.001 $\pm$ 0.010 χ^2 /NDF:18.7/21

All: 0.013 $\pm$ 0.007 χ^2 /NDF: 40.9/39

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.712 $\pm$ 0.007 χ^2 /NDF: 2295174.7/15

Left Out: 65.091 $\pm$ 0.034 χ^2 /NDF:83537.5/2

Right Out: 25.597 $\pm$ 0.007 χ^2 /NDF: 1605235.8/18

Left In: 49.954 $\pm$ 0.027 χ^2 /NDF:3719.8/1

Left: 56.019 $\pm$ 0.021 χ^2 /NDF: 209081.5/4

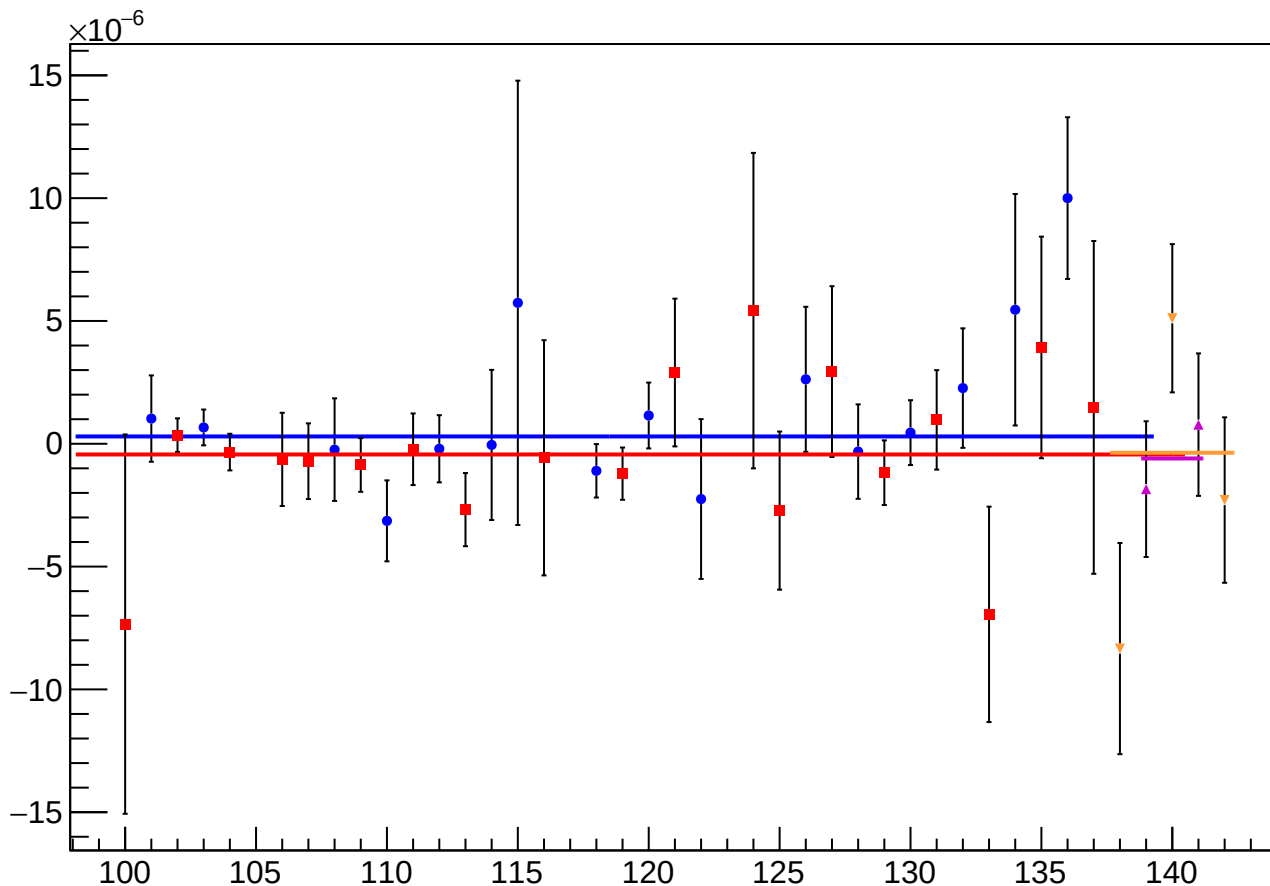
Right: 25.155 $\pm$ 0.005 χ^2 /NDF: 3907717.2/34

In: 26.389 $\pm$ 0.007 χ^2 /NDF:3088141.7/17

Out: 27.388 $\pm$ 0.007 χ^2 /NDF:3009828.5/21

All: 26.883 $\pm$ 0.005 χ^2 /NDF: 6107833.0/39

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 19.3/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 7.1/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 12.7/18

Left In: -0.000 ± 0.000 χ^2/NDF : 0.4/1

Left: -0.000 ± 0.000 χ^2/NDF : 7.5/4

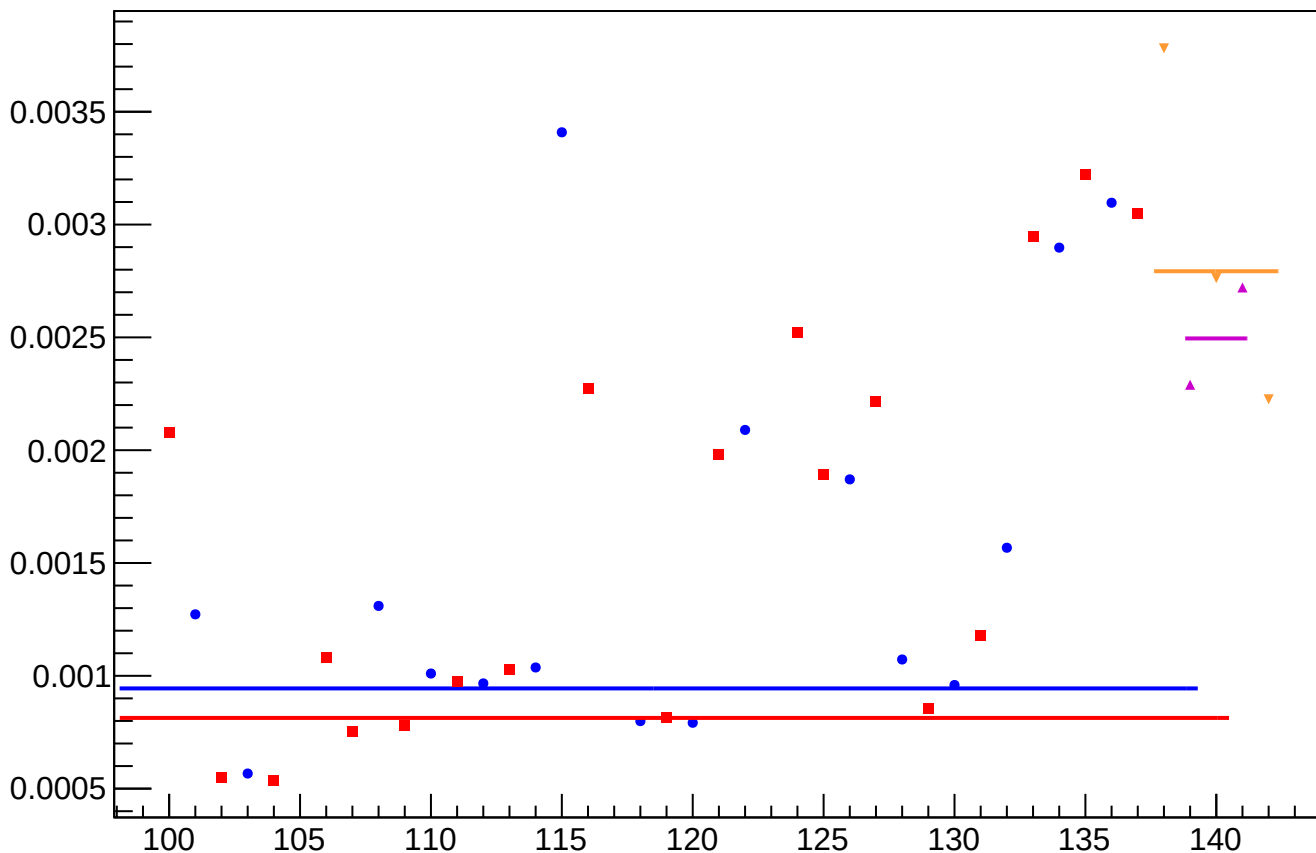
Right: -0.000 ± 0.000 χ^2/NDF : 33.9/34

In: 0.000 ± 0.000 χ^2/NDF : 19.9/17

Out: -0.000 ± 0.000 χ^2/NDF : 19.8/21

All: -0.000 ± 0.000 χ^2/NDF : 41.5/39

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 2665853.3/15

Left Out: 0.003+/-0.000

χ^2/NDF :162651.4/2

Right Out: 0.001+/-0.000

χ^2/NDF : 3244147.3/18

Left In: 0.002+/-0.000

χ^2/NDF :23174.0/1

Left: 0.003+/-0.000

χ^2/NDF : 208094.3/4

Right: 0.001+/-0.000

χ^2/NDF : 6033376.9/34

In: 0.001+/-0.000

χ^2/NDF :3844849.7/17

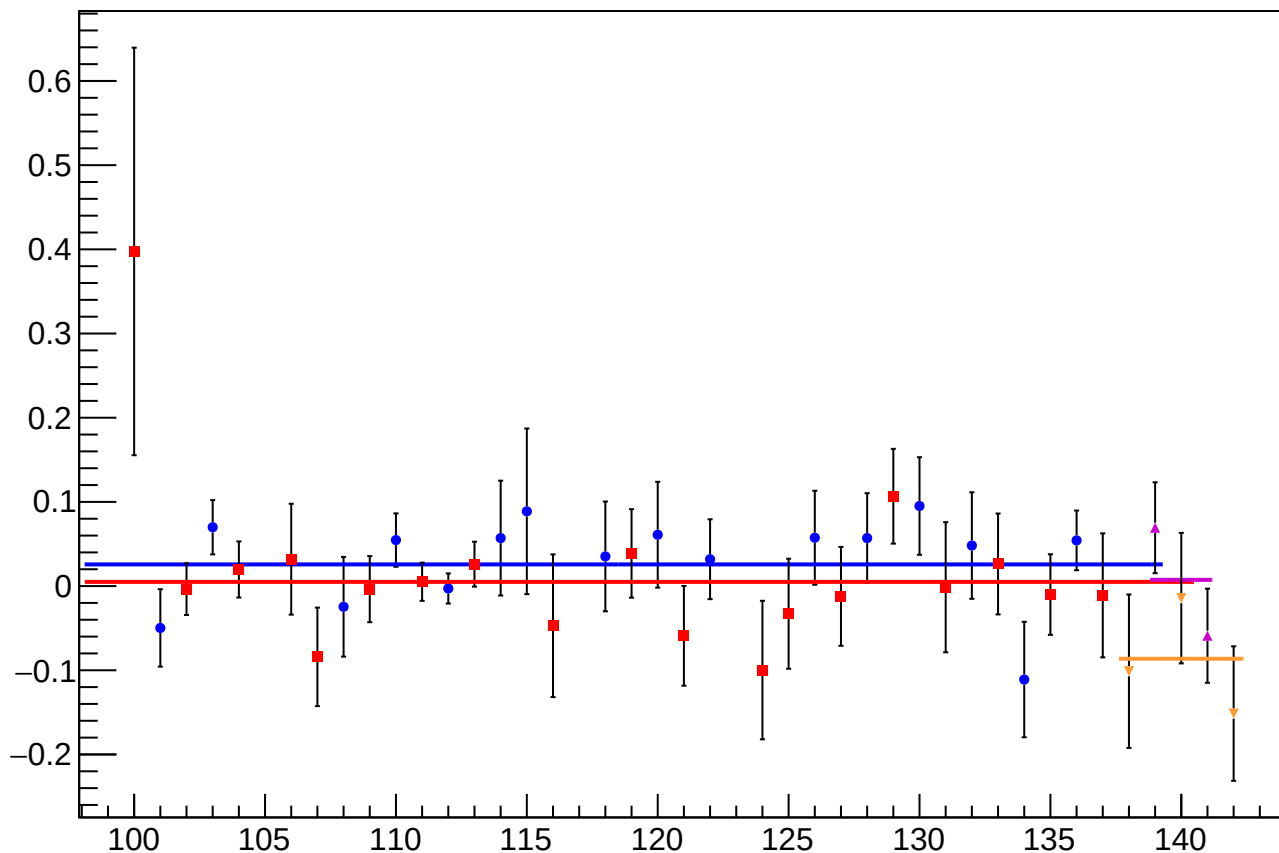
Out: 0.001+/-0.000

χ^2/NDF :5326597.7/21

All: 0.001+/-0.000

χ^2/NDF : 9306212.8/39

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.010 χ^2 /NDF: 16.5/15

Left Out: -0.086 $\pm$ 0.047 χ^2 /NDF:1.6/2

Right Out: 0.005 $\pm$ 0.010 χ^2 /NDF: 13.6/18

Left In: 0.007 $\pm$ 0.039 χ^2 /NDF:2.7/1

Left: -0.030 $\pm$ 0.030 χ^2 /NDF: 6.6/4

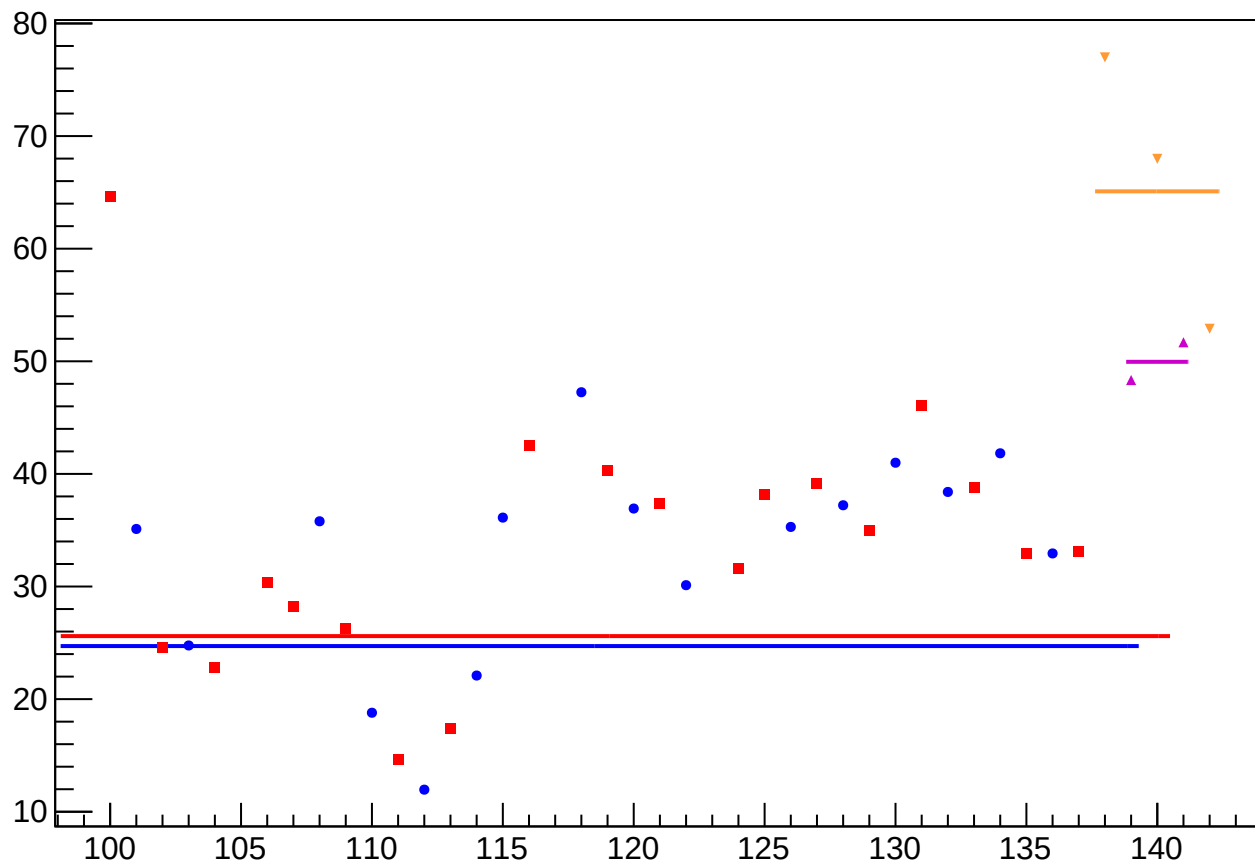
Right: 0.015 $\pm$ 0.007 χ^2 /NDF: 32.1/34

In: 0.025 $\pm$ 0.010 χ^2 /NDF:19.4/17

Out: 0.001 $\pm$ 0.010 χ^2 /NDF:18.7/21

All: 0.013 $\pm$ 0.007 χ^2 /NDF: 40.9/39

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.712 $\pm$ 0.007 χ^2/NDF : 2295351.2/15

Left Out: 65.091 $\pm$ 0.034 χ^2/NDF : 83531.0/2

Right Out: 25.597 $\pm$ 0.007 χ^2/NDF : 1605387.3/18

Left In: 49.954 $\pm$ 0.027 χ^2/NDF : 3721.2/1

Left: 56.020 $\pm$ 0.021 χ^2/NDF : 209078.4/4

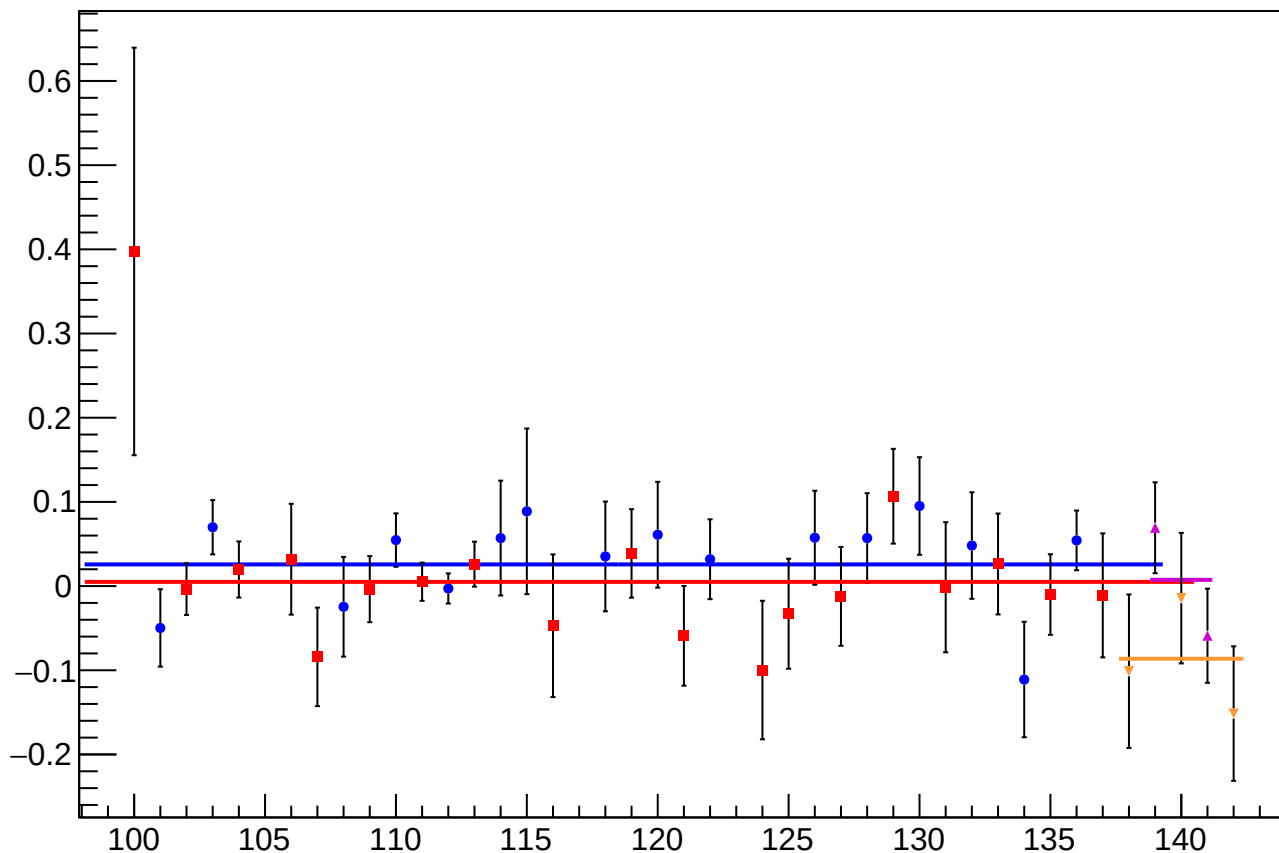
Right: 25.155 $\pm$ 0.005 χ^2/NDF : 3908047.8/34

In: 26.389 $\pm$ 0.007 χ^2/NDF : 3088370.5/17

Out: 27.388 $\pm$ 0.007 χ^2/NDF : 3010024.2/21

All: 26.883 $\pm$ 0.005 χ^2/NDF : 6108260.4/39

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.010 χ^2 /NDF: 16.5/15

Left Out: -0.086 $\pm$ 0.047 χ^2 /NDF:1.6/2

Right Out: 0.005 $\pm$ 0.010 χ^2 /NDF: 13.6/18

Left In: 0.007 $\pm$ 0.039 χ^2 /NDF:2.7/1

Left: -0.030 $\pm$ 0.030 χ^2 /NDF: 6.6/4

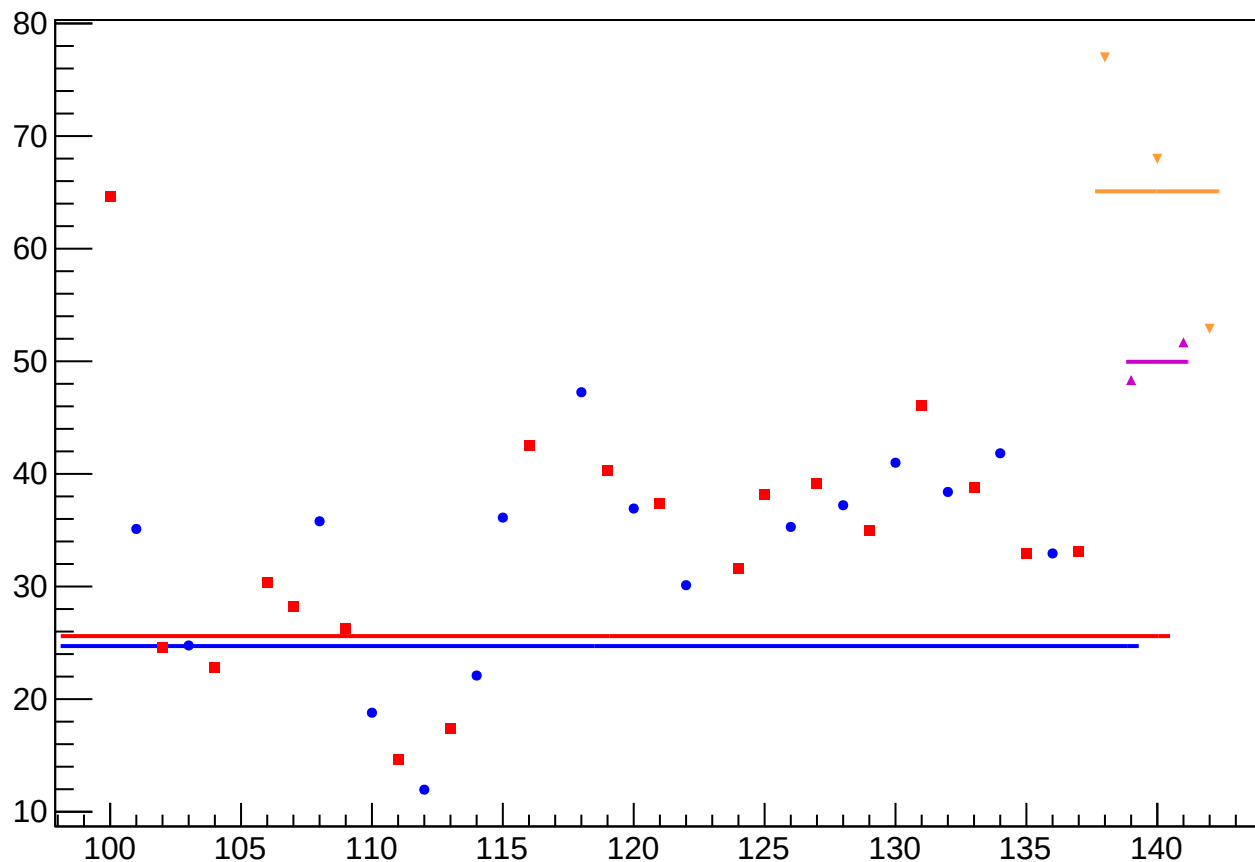
Right: 0.015 $\pm$ 0.007 χ^2 /NDF: 32.1/34

In: 0.025 $\pm$ 0.010 χ^2 /NDF:19.4/17

Out: 0.001 $\pm$ 0.010 χ^2 /NDF:18.7/21

All: 0.013 $\pm$ 0.007 χ^2 /NDF: 40.9/39

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.712 $\pm$ 0.007 χ^2/NDF : 2295351.2/15

Left Out: 65.091 $\pm$ 0.034 χ^2/NDF : 83531.0/2

Right Out: 25.597 $\pm$ 0.007 χ^2/NDF : 1605387.3/18

Left In: 49.954 $\pm$ 0.027 χ^2/NDF : 3721.2/1

Left: 56.020 $\pm$ 0.021 χ^2/NDF : 209078.4/4

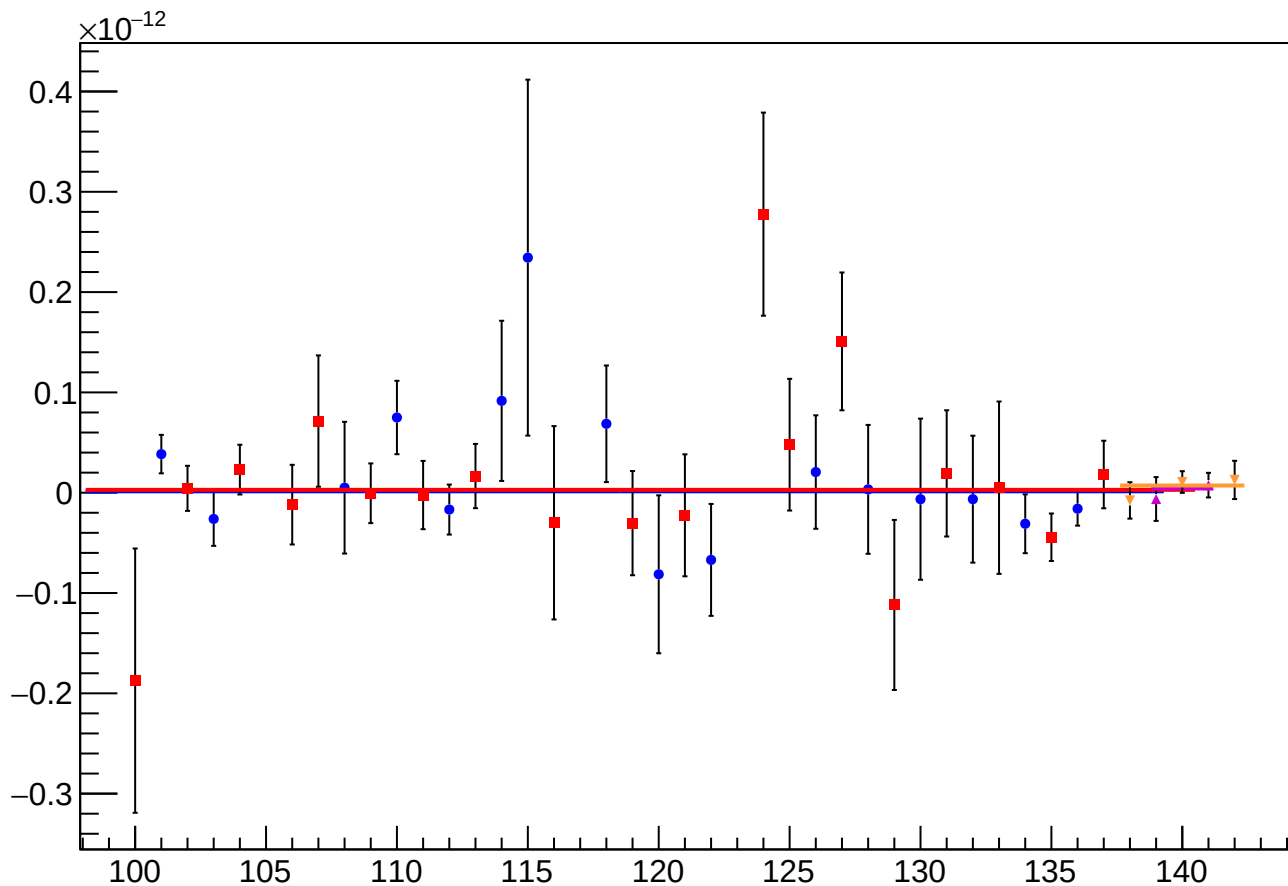
Right: 25.155 $\pm$ 0.005 χ^2/NDF : 3908047.8/34

In: 26.389 $\pm$ 0.007 χ^2/NDF : 3088370.5/17

Out: 27.388 $\pm$ 0.007 χ^2/NDF : 3010024.2/21

All: 26.883 $\pm$ 0.005 χ^2/NDF : 6108260.4/39

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 23.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.3/1

Left: 0.000+/-0.000 χ^2/NDF : 1.2/4

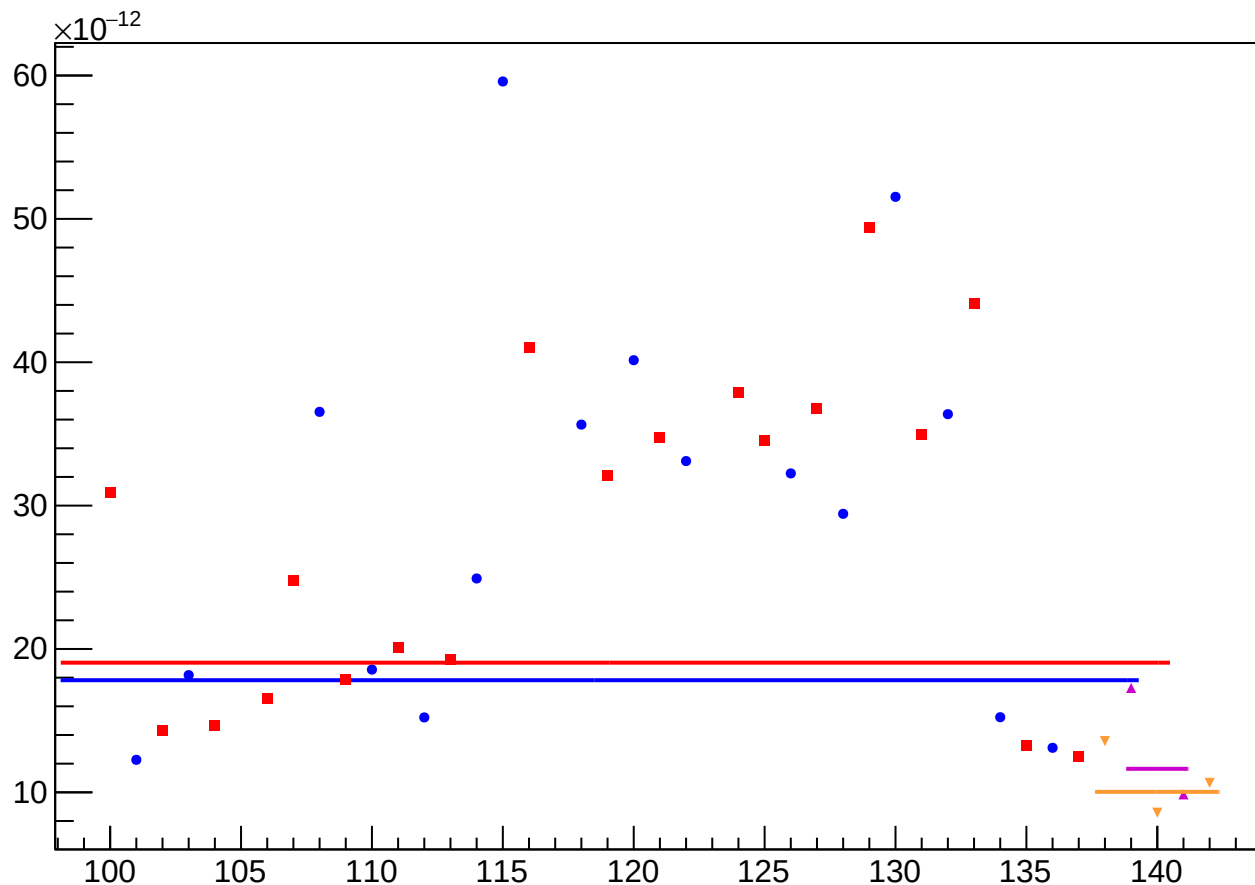
Right: 0.000+/-0.000 χ^2/NDF : 42.2/34

In: 0.000+/-0.000 χ^2/NDF : 19.1/17

Out: 0.000+/-0.000 χ^2/NDF : 24.5/21

All: 0.000+/-0.000 χ^2/NDF : 43.6/39

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1869965.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 114307.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1620721.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 175672.5/1

Left: 0.000+/-0.000 χ^2/NDF : 318023.4/4

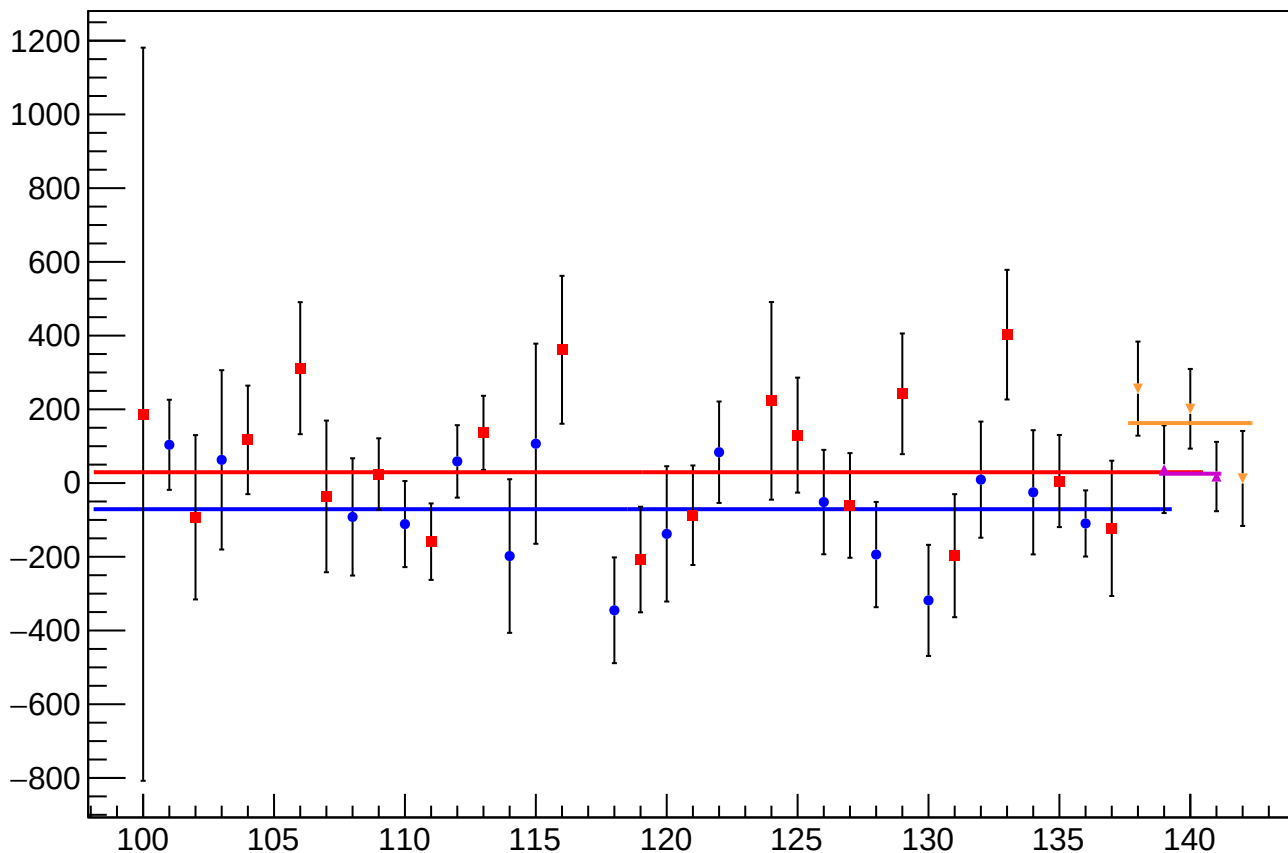
Right: 0.000+/-0.000 χ^2/NDF : 3509564.6/34

In: 0.000+/-0.000 χ^2/NDF : 2448054.7/17

Out: 0.000+/-0.000 χ^2/NDF : 2795706.8/21

All: 0.000+/-0.000 χ^2/NDF : 5280513.6/39

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -70.892 ± 35.122 $\chi^2/\text{NDF}: 14.1/15$

Left Out: 162.724 ± 69.473 $\chi^2/\text{NDF}: 2.0/2$

Right Out: 29.410 ± 34.243 $\chi^2/\text{NDF}: 24.0/18$

Left In: 25.362 ± 73.797 $\chi^2/\text{NDF}: 0.0/1$

Left: 98.185 ± 50.584 $\chi^2/\text{NDF}: 3.9/4$

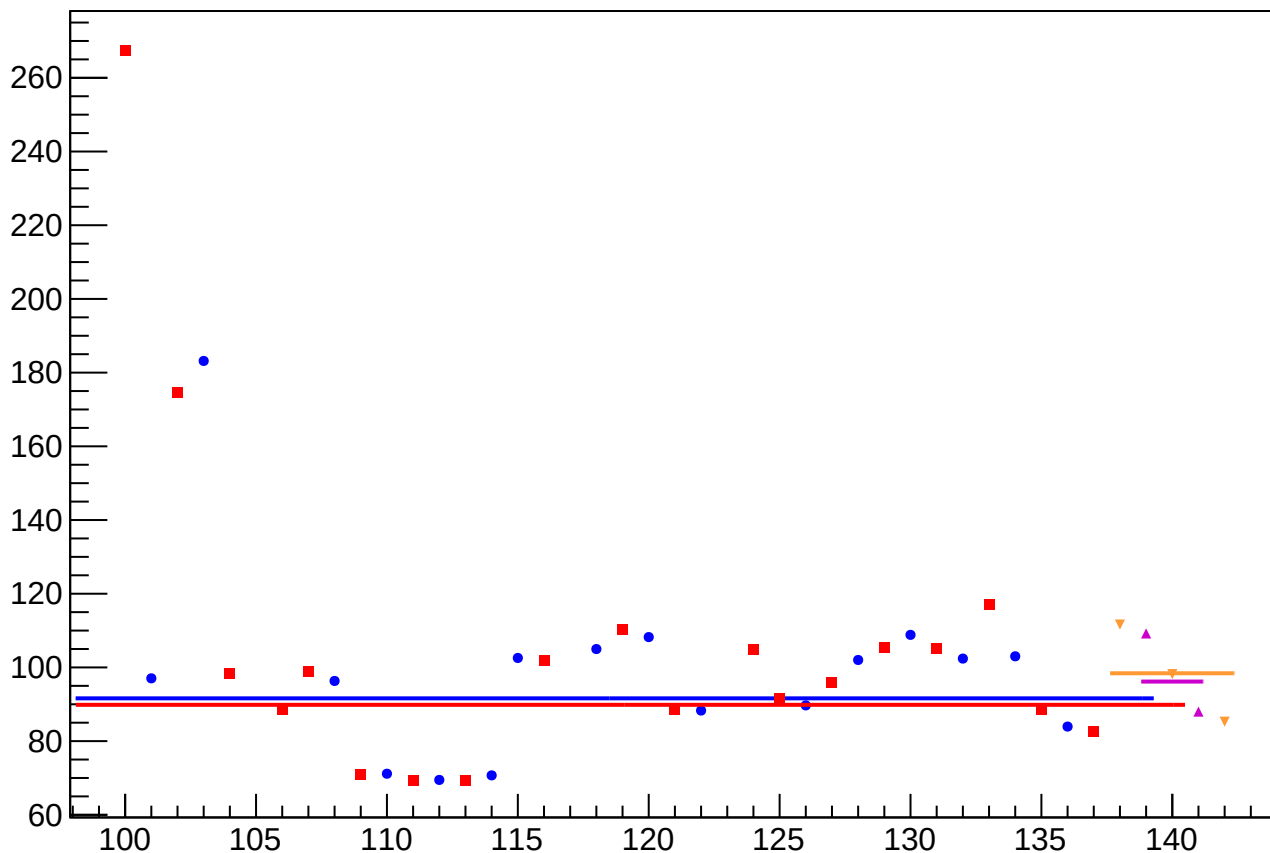
Right: -19.470 ± 24.518 $\chi^2/\text{NDF}: 42.3/34$

In: -53.116 ± 31.714 $\chi^2/\text{NDF}: 15.5/17$

Out: 55.468 ± 30.715 $\chi^2/\text{NDF}: 29.0/21$

All: 2.913 ± 22.063 $\chi^2/\text{NDF}: 50.5/39$

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 91.608 $\pm$ 0.025 χ^2 /NDF: 580672.8/15

Left Out: 98.416 $\pm$ 0.049 χ^2 /NDF: 42263.6/2

Right Out: 89.854 $\pm$ 0.024 χ^2 /NDF: 746289.1/18

Left In: 96.161 $\pm$ 0.052 χ^2 /NDF: 39079.9/1

Left: 97.356 $\pm$ 0.036 χ^2 /NDF: 82333.8/4

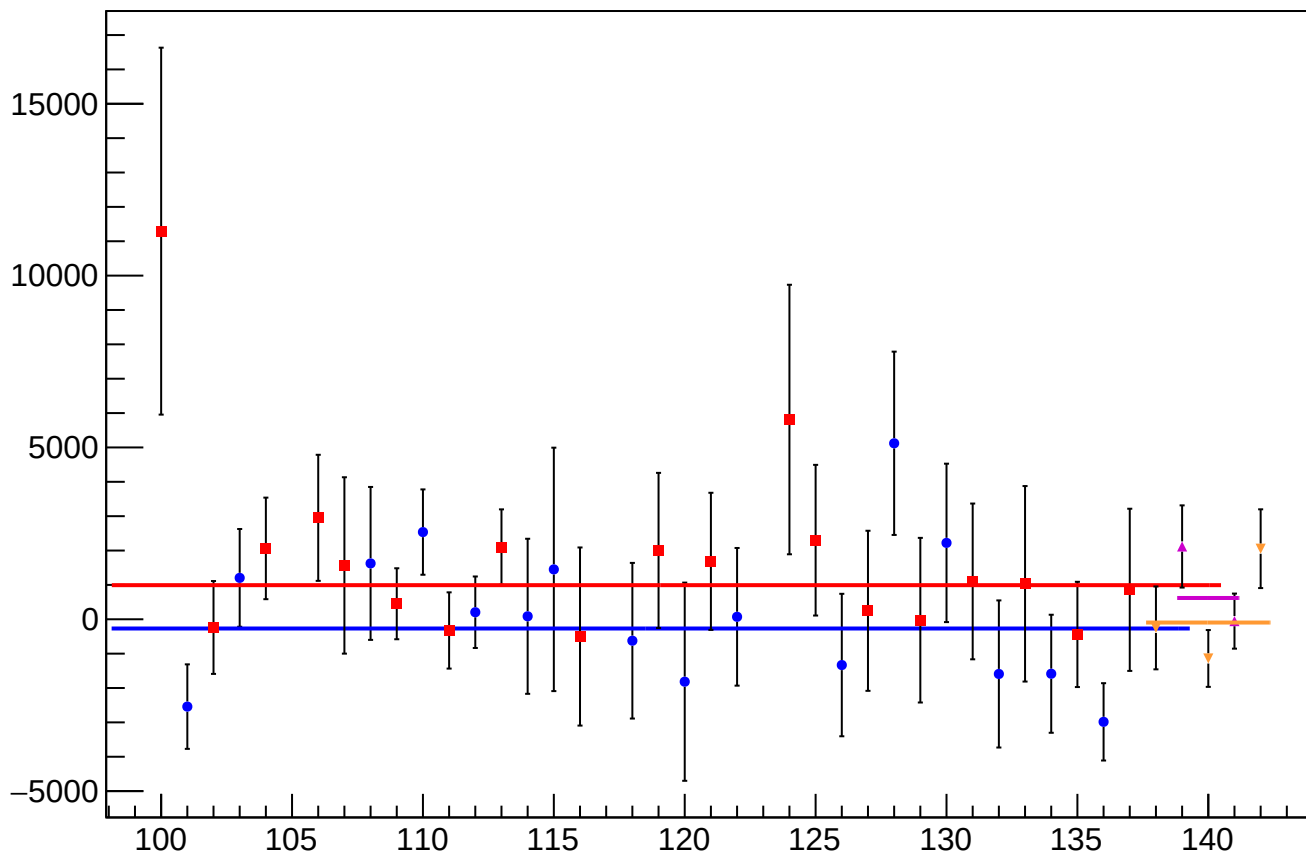
Right: 90.709 $\pm$ 0.017 χ^2 /NDF: 1329517.7/34

In: 92.449 $\pm$ 0.022 χ^2 /NDF: 625958.9/17

Out: 91.528 $\pm$ 0.022 χ^2 /NDF: 812990.1/21

All: 91.974 $\pm$ 0.016 χ^2 /NDF: 1439819.1/39

asym_sam_3748_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -268.485 ± 419.578 $\chi^2/\text{NDF}: 23.4/15$

Left Out: -94.921 ± 585.972 $\chi^2/\text{NDF}: 5.1/2$

Right Out: 992.670 ± 400.824 $\chi^2/\text{NDF}: 12.7/18$

Left In: 619.569 ± 665.720 $\chi^2/\text{NDF}: 2.3/1$

Left: 216.986 ± 439.852 $\chi^2/\text{NDF}: 8.1/4$

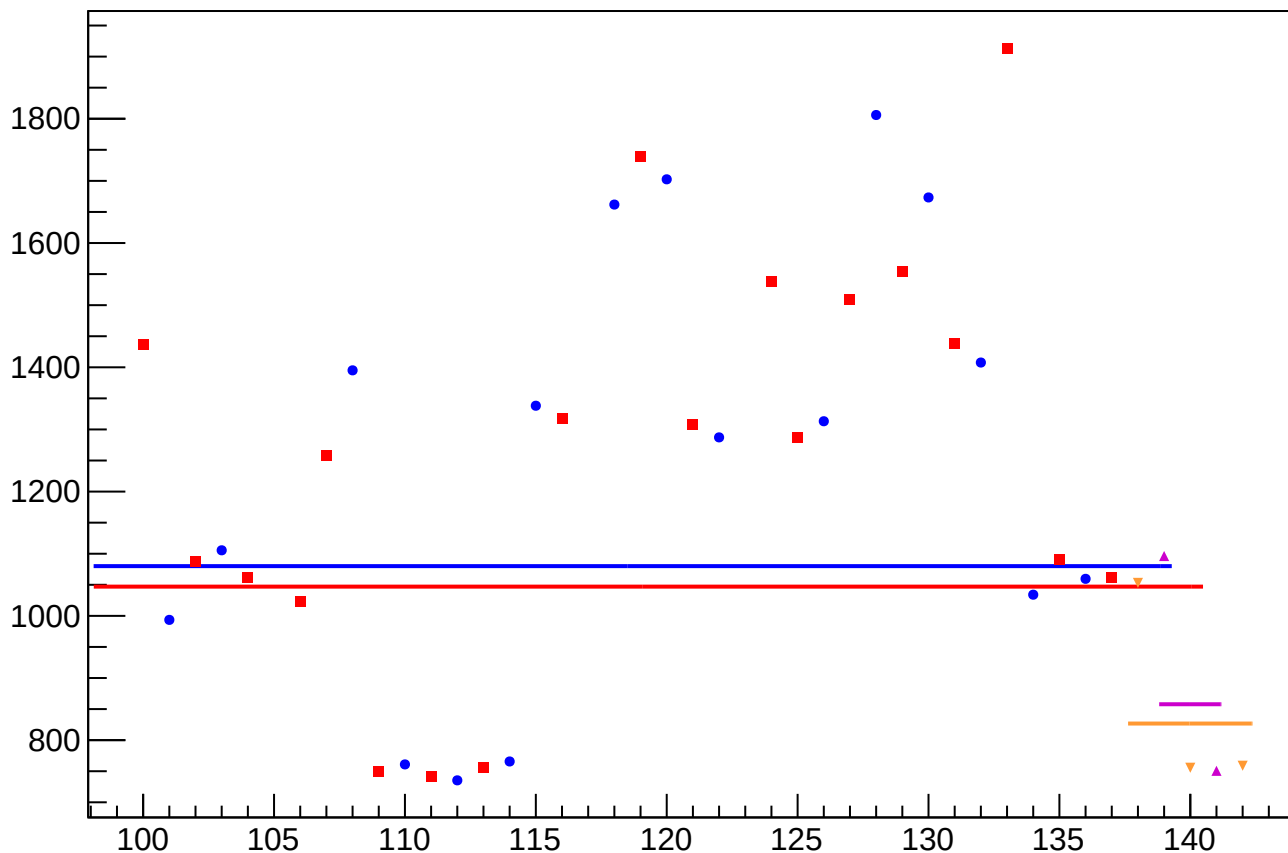
Right: 390.906 ± 289.829 $\chi^2/\text{NDF}: 40.8/34$

In: -16.013 ± 354.959 $\chi^2/\text{NDF}: 27.0/17$

Out: 645.995 ± 330.831 $\chi^2/\text{NDF}: 20.1/21$

All: 338.254 ± 242.013 $\chi^2/\text{NDF}: 49.0/39$

asym_sam_3748_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1080.045 $\pm$ 0.297 χ^2/NDF : 1053468.5/15

Left Out: 826.725 $\pm$ 0.414 χ^2/NDF : 92328.2/2

Right Out: 1047.068 $\pm$ 0.283 χ^2/NDF : 1198646.2/18

Left In: 857.782 $\pm$ 0.471 χ^2/NDF : 115301.2/1

Left: 840.282 $\pm$ 0.311 χ^2/NDF : 210082.1/4

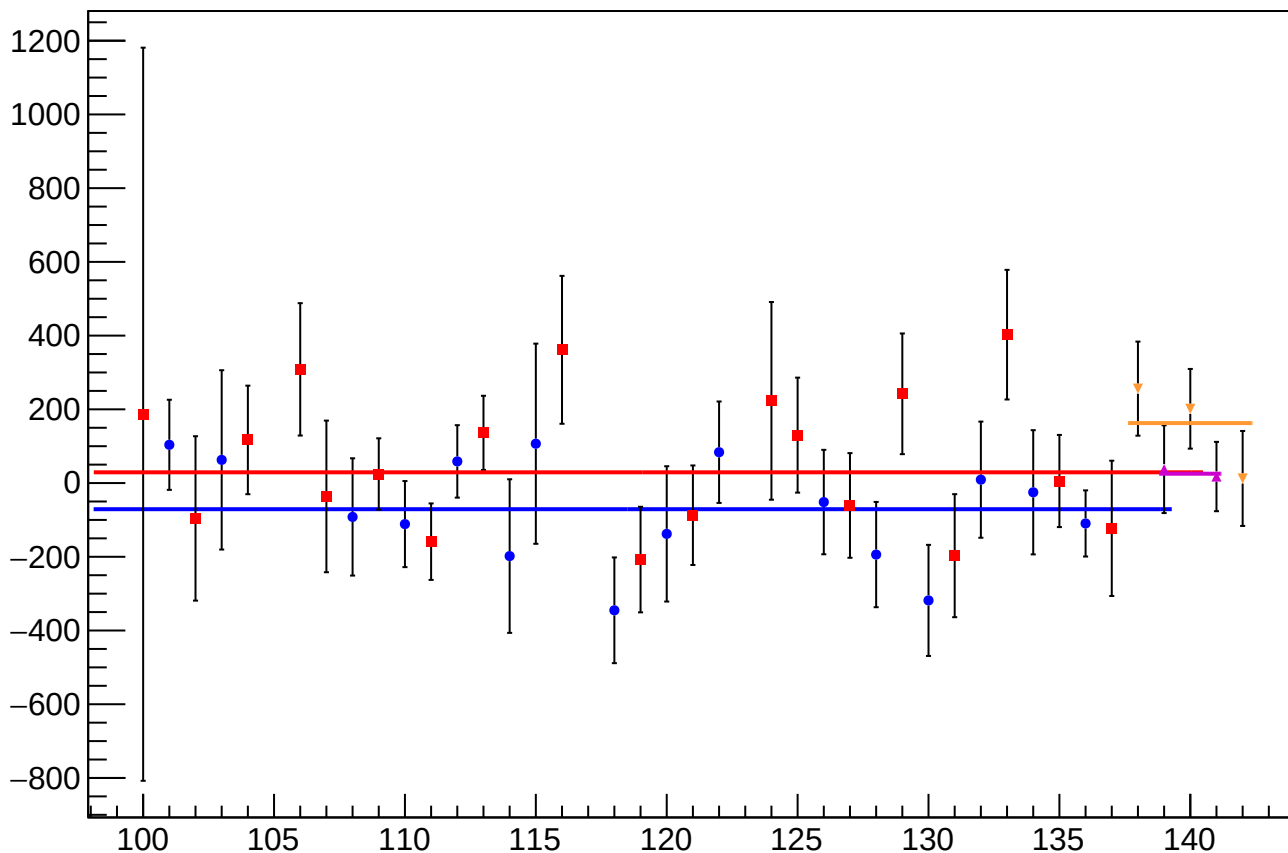
Right: 1062.803 $\pm$ 0.205 χ^2/NDF : 2258574.4/34

In: 1016.856 $\pm$ 0.251 χ^2/NDF : 1328326.2/17

Out: 976.832 $\pm$ 0.234 χ^2/NDF : 1483628.4/21

All: 995.438 $\pm$ 0.171 χ^2/NDF : 2825562.1/39

cor_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -70.903 ± 35.122 $\chi^2/\text{NDF}: 14.1/15$

Left Out: 162.736 ± 69.473 $\chi^2/\text{NDF}: 2.0/2$

Right Out: 29.159 ± 34.247 $\chi^2/\text{NDF}: 24.0/18$

Left In: 25.367 ± 73.797 $\chi^2/\text{NDF}: 0.0/1$

Left: 98.195 ± 50.584 $\chi^2/\text{NDF}: 3.9/4$

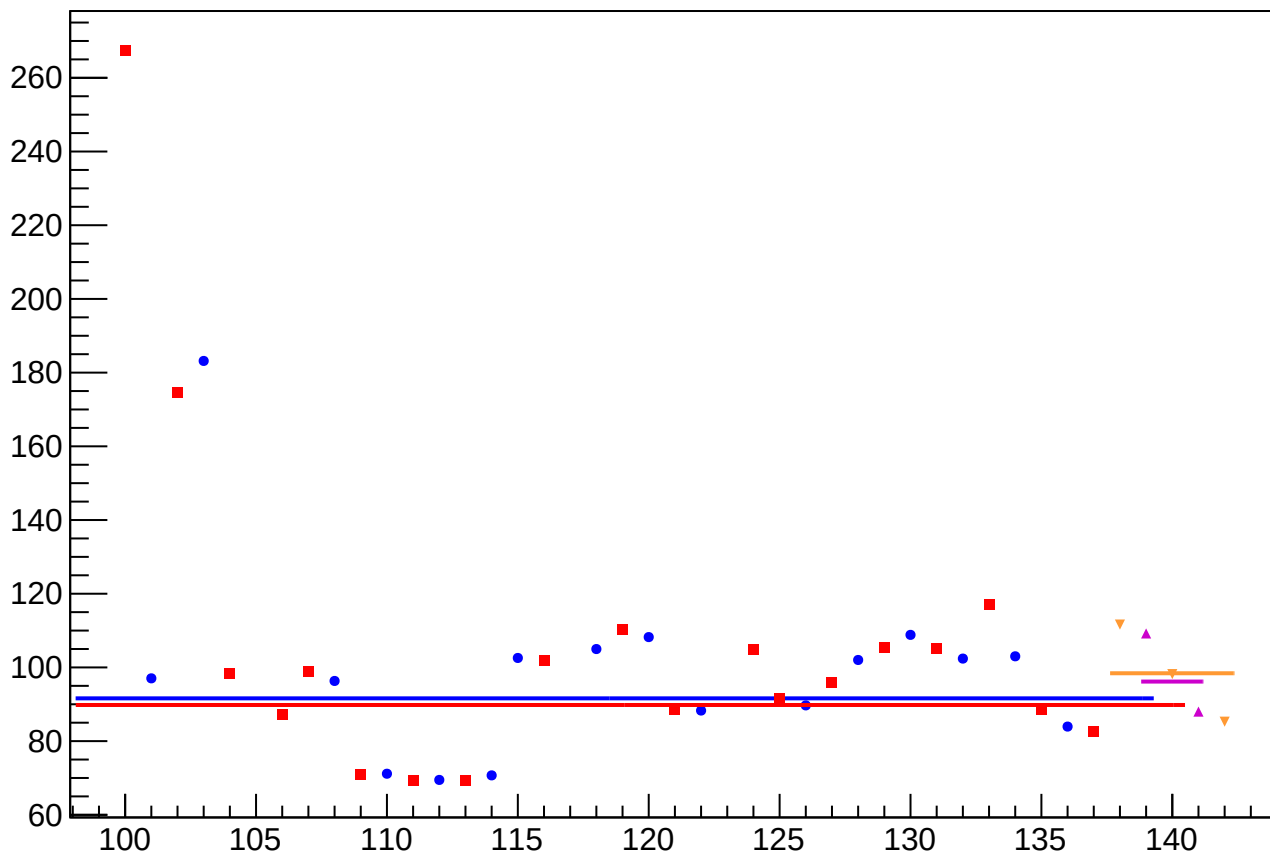
Right: -19.610 ± 24.520 $\chi^2/\text{NDF}: 42.2/34$

In: -53.124 ± 31.714 $\chi^2/\text{NDF}: 15.5/17$

Out: 55.274 ± 30.718 $\chi^2/\text{NDF}: 29.0/21$

All: 2.803 ± 22.064 $\chi^2/\text{NDF}: 50.4/39$

cor_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 91.608 $\pm$ 0.025 χ^2 /NDF: 580675.9/15

Left Out: 98.416 $\pm$ 0.049 χ^2 /NDF: 42263.6/2

Right Out: 89.807 $\pm$ 0.024 χ^2 /NDF: 746833.4/18

Left In: 96.161 $\pm$ 0.052 χ^2 /NDF: 39079.9/1

Left: 97.356 $\pm$ 0.036 χ^2 /NDF: 82333.8/4

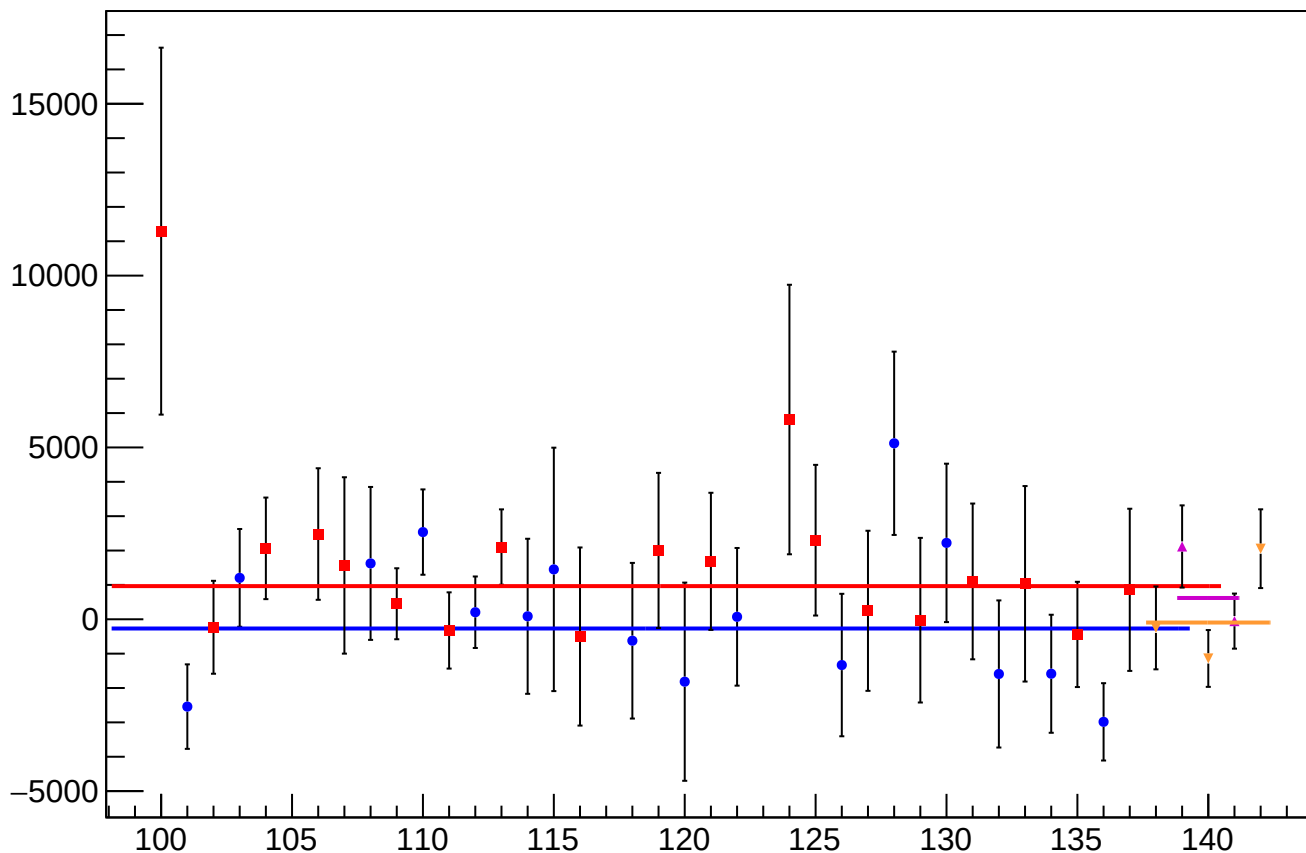
Right: 90.685 $\pm$ 0.017 χ^2 /NDF: 1330205.1/34

In: 92.449 $\pm$ 0.022 χ^2 /NDF: 625962.0/17

Out: 91.490 $\pm$ 0.022 χ^2 /NDF: 813804.9/21

All: 91.954 $\pm$ 0.016 χ^2 /NDF: 1440709.9/39

asym_sam_3748_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -268.506+/-419.581 χ^2/NDF : 23.4/15

Left Out: -94.906+/-585.972 χ^2/NDF : 5.1/2

Right Out: 964.986+/-401.633 χ^2/NDF : 12.1/18

Left In: 619.590+/-665.721 χ^2/NDF : 2.3/1

Left: 217.004+/-439.852 χ^2/NDF : 8.1/4

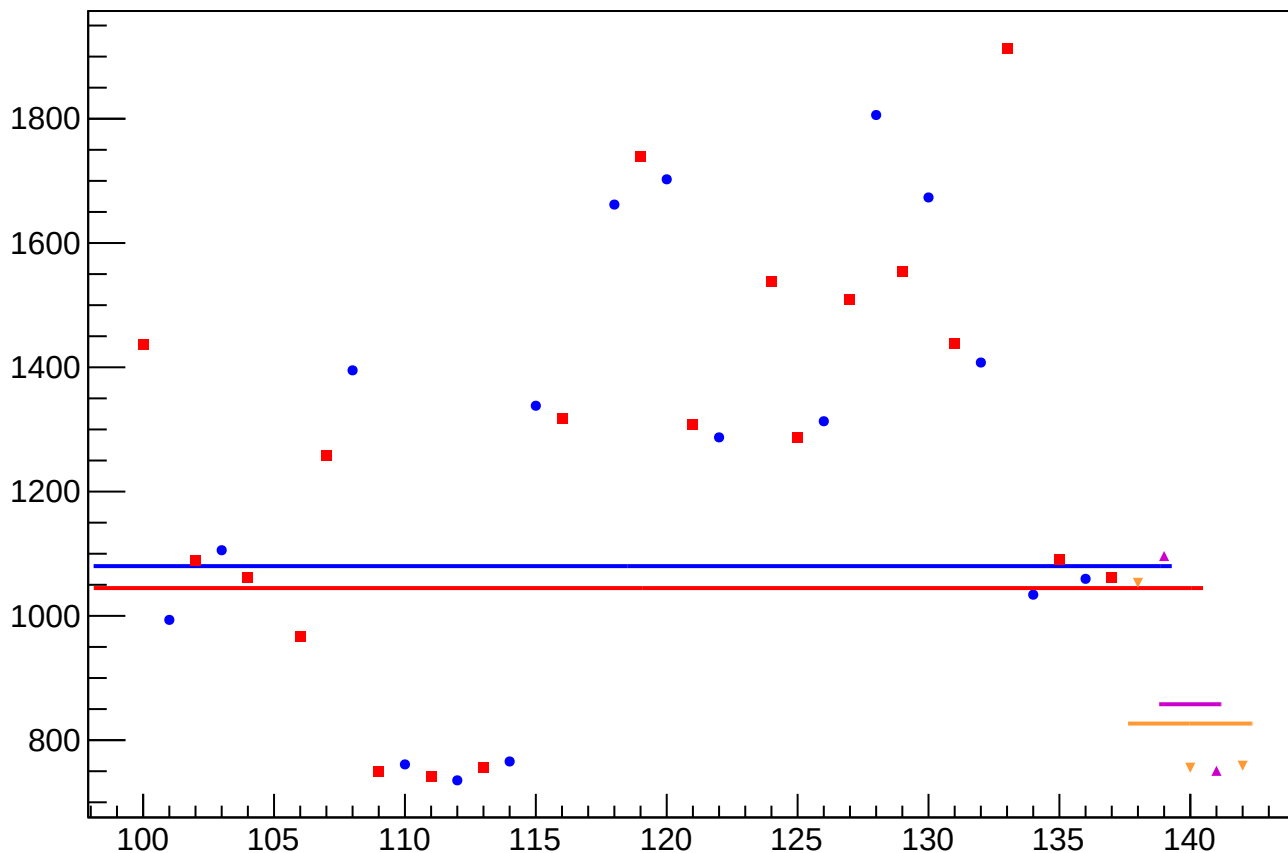
Right: 375.186+/-290.135 χ^2/NDF : 40.1/34

In: -16.019+/-354.961 χ^2/NDF : 27.0/17

Out: 626.212+/-331.285 χ^2/NDF : 19.5/21

All: 327.228+/-242.192 χ^2/NDF : 48.2/39

asym_sam_3748_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1080.054 $\pm$ 0.297 χ^2/NDF : 1053475.0/15

Left Out: 826.724 $\pm$ 0.414 χ^2/NDF : 92328.2/2

Right Out: 1044.717 $\pm$ 0.284 χ^2/NDF : 1201825.8/18

Left In: 857.783 $\pm$ 0.471 χ^2/NDF : 115299.9/1

Left: 840.282 $\pm$ 0.311 χ^2/NDF : 210081.0/4

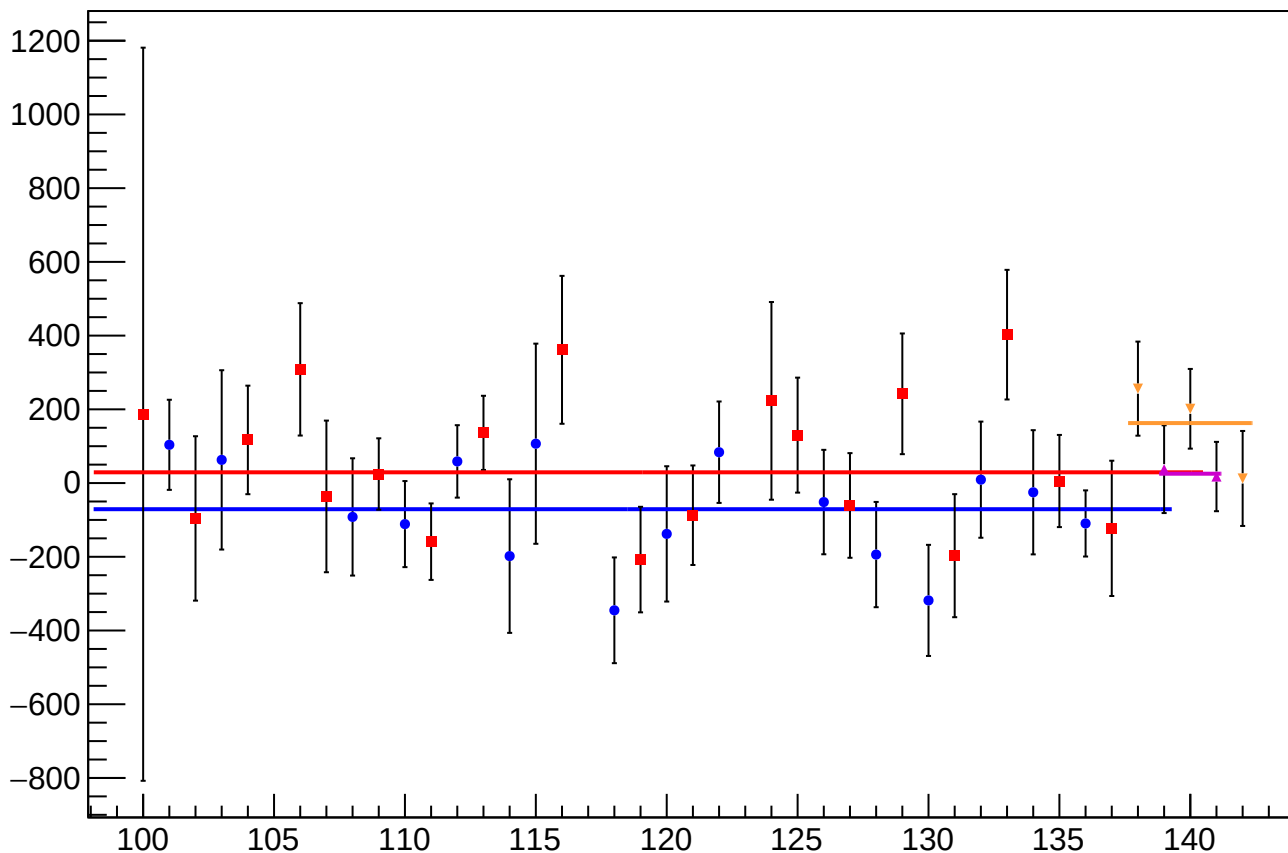
Right: 1061.613 $\pm$ 0.205 χ^2/NDF : 2262703.7/34

In: 1016.862 $\pm$ 0.251 χ^2/NDF : 1328341.3/17

Out: 975.039 $\pm$ 0.234 χ^2/NDF : 1482478.2/21

All: 994.509 $\pm$ 0.171 χ^2/NDF : 2825658.6/39

eigen_cor_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -70.903 $\pm$ 35.122 χ^2 /NDF: 14.1/15

Left Out: 162.736 $\pm$ 69.473 χ^2 /NDF:2.0/2

Right Out: 29.159 $\pm$ 34.247 χ^2 /NDF: 24.0/18

Left In: 25.367 $\pm$ 73.797 χ^2 /NDF:0.0/1

Left: 98.195 $\pm$ 50.584 χ^2 /NDF: 3.9/4

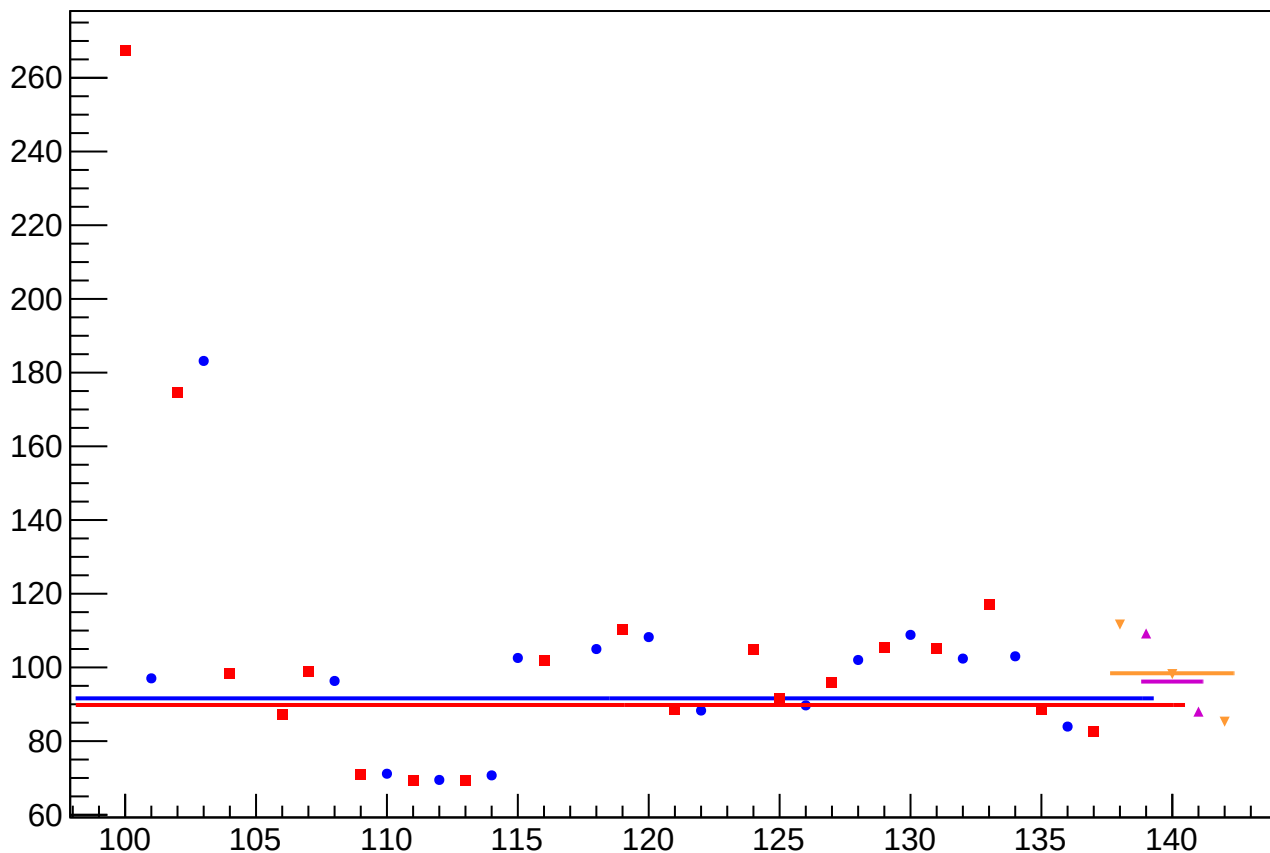
Right: -19.610 $\pm$ 24.520 χ^2 /NDF: 42.2/34

In: -53.124 $\pm$ 31.714 χ^2 /NDF:15.5/17

Out: 55.274 $\pm$ 30.718 χ^2 /NDF:29.0/21

All: 2.803 $\pm$ 22.064 χ^2 /NDF: 50.4/39

eigen_cor_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 91.608 $\pm$ 0.025 χ^2 /NDF: 580675.9/15

Left Out: 98.416 $\pm$ 0.049 χ^2 /NDF: 42263.6/2

Right Out: 89.807 $\pm$ 0.024 χ^2 /NDF: 746833.4/18

Left In: 96.161 $\pm$ 0.052 χ^2 /NDF: 39079.9/1

Left: 97.356 $\pm$ 0.036 χ^2 /NDF: 82333.8/4

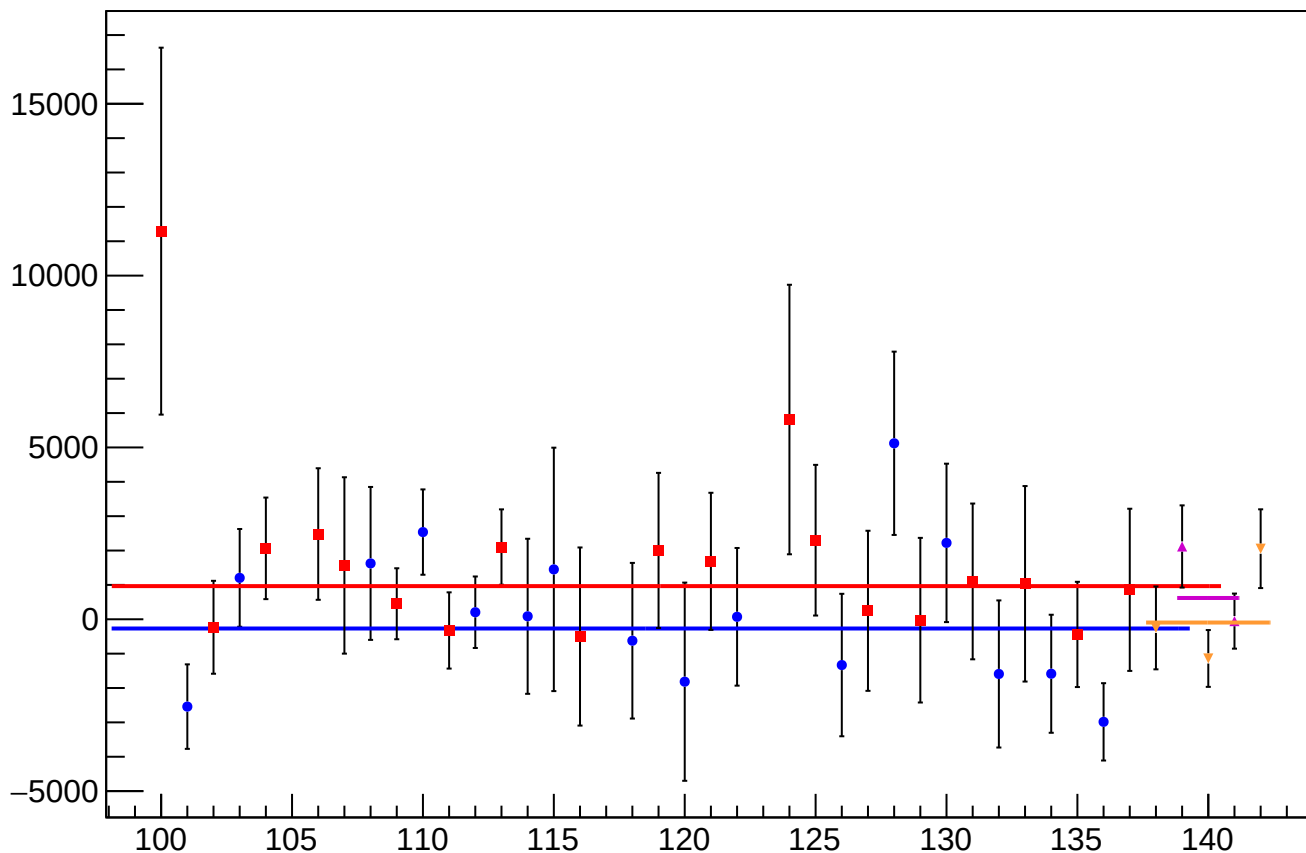
Right: 90.685 $\pm$ 0.017 χ^2 /NDF: 1330205.1/34

In: 92.449 $\pm$ 0.022 χ^2 /NDF: 625962.0/17

Out: 91.490 $\pm$ 0.022 χ^2 /NDF: 813804.9/21

All: 91.954 $\pm$ 0.016 χ^2 /NDF: 1440709.9/39

asym_sam_3748_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -268.506 ± 419.581 $\chi^2/\text{NDF}: 23.4/15$

Left Out: -94.906 ± 585.972 $\chi^2/\text{NDF}: 5.1/2$

Right Out: 964.986 ± 401.633 $\chi^2/\text{NDF}: 12.1/18$

Left In: 619.590 ± 665.721 $\chi^2/\text{NDF}: 2.3/1$

Left: 217.004 ± 439.852 $\chi^2/\text{NDF}: 8.1/4$

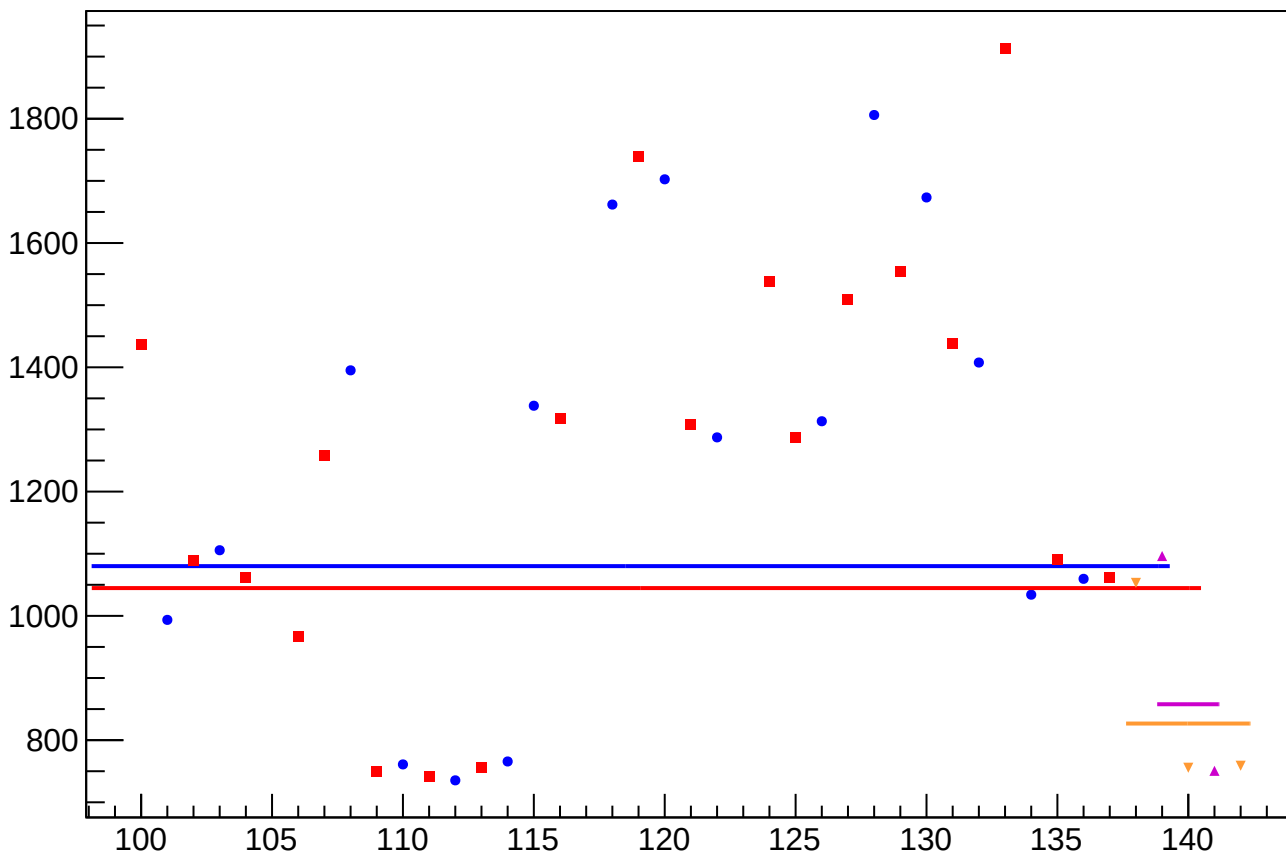
Right: 375.186 ± 290.135 $\chi^2/\text{NDF}: 40.1/34$

In: -16.019 ± 354.961 $\chi^2/\text{NDF}: 27.0/17$

Out: 626.212 ± 331.285 $\chi^2/\text{NDF}: 19.5/21$

All: 327.228 ± 242.192 $\chi^2/\text{NDF}: 48.2/39$

asym_sam_3748_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1080.054+/-0.297 χ^2/NDF : 1053475.0/15

Left Out: 826.724+/-0.414 χ^2/NDF : 92328.2/2

Right Out: 1044.717+/-0.284 χ^2/NDF : 1201825.8/18

Left In: 857.783+/-0.471 χ^2/NDF : 115299.9/1

Left: 840.282+/-0.311 χ^2/NDF : 210081.0/4

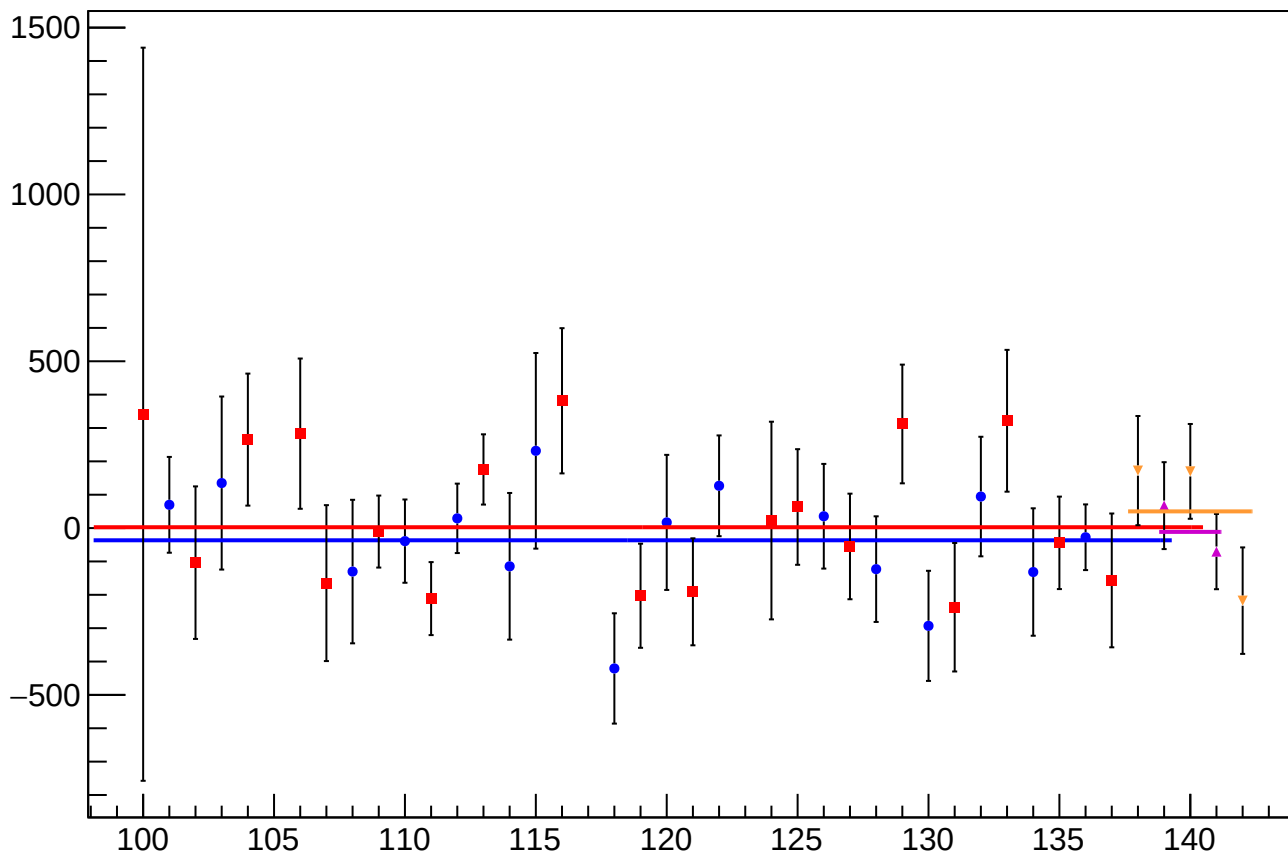
Right: 1061.613+/-0.205 χ^2/NDF : 2262703.7/34

In: 1016.862+/-0.251 χ^2/NDF : 1328341.3/17

Out: 975.039+/-0.234 χ^2/NDF : 1482478.2/21

All: 994.509+/-0.171 χ^2/NDF : 2825658.6/39

dit_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -36.590 ± 38.991 $\chi^2/\text{NDF}: 12.9/15$

Left Out: 50.045 ± 89.038 $\chi^2/\text{NDF}: 4.1/2$

Right Out: 2.568 ± 38.165 $\chi^2/\text{NDF}: 24.7/18$

Left In: -11.419 ± 85.261 $\chi^2/\text{NDF}: 0.6/1$

Left: 17.982 ± 61.580 $\chi^2/\text{NDF}: 5.0/4$

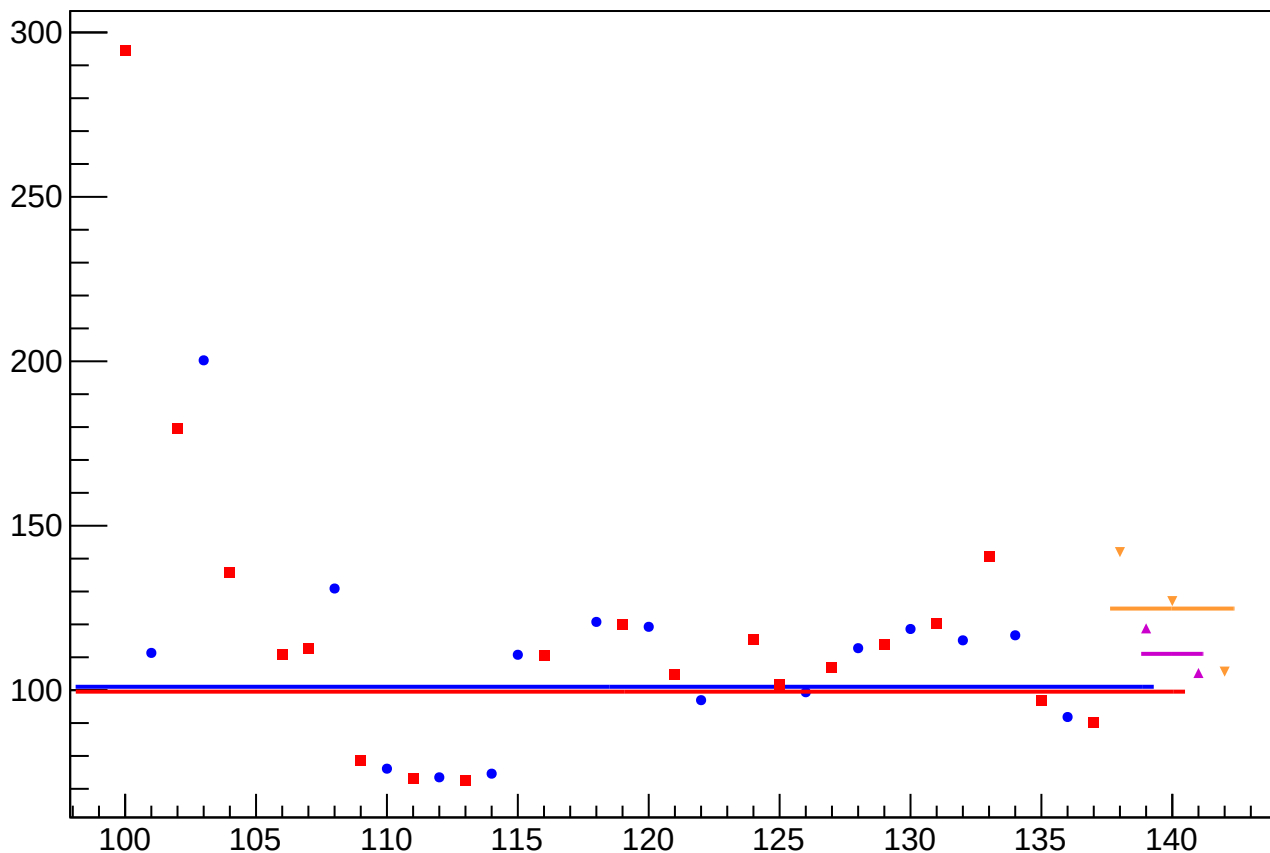
Right: -16.592 ± 27.274 $\chi^2/\text{NDF}: 38.1/34$

In: -32.237 ± 35.459 $\chi^2/\text{NDF}: 13.6/17$

Out: 9.937 ± 35.078 $\chi^2/\text{NDF}: 29.1/21$

All: -10.922 ± 24.937 $\chi^2/\text{NDF}: 43.4/39$

dit_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 101.031 $\pm$ 0.028 χ^2 /NDF: 716095.9/15

Left Out: 124.811 $\pm$ 0.063 χ^2 /NDF: 51387.3/2

Right Out: 99.547 $\pm$ 0.027 χ^2 /NDF: 880497.8/18

Left In: 111.043 $\pm$ 0.060 χ^2 /NDF: 12410.2/1

Left: 117.628 $\pm$ 0.044 χ^2 /NDF: 88744.5/4

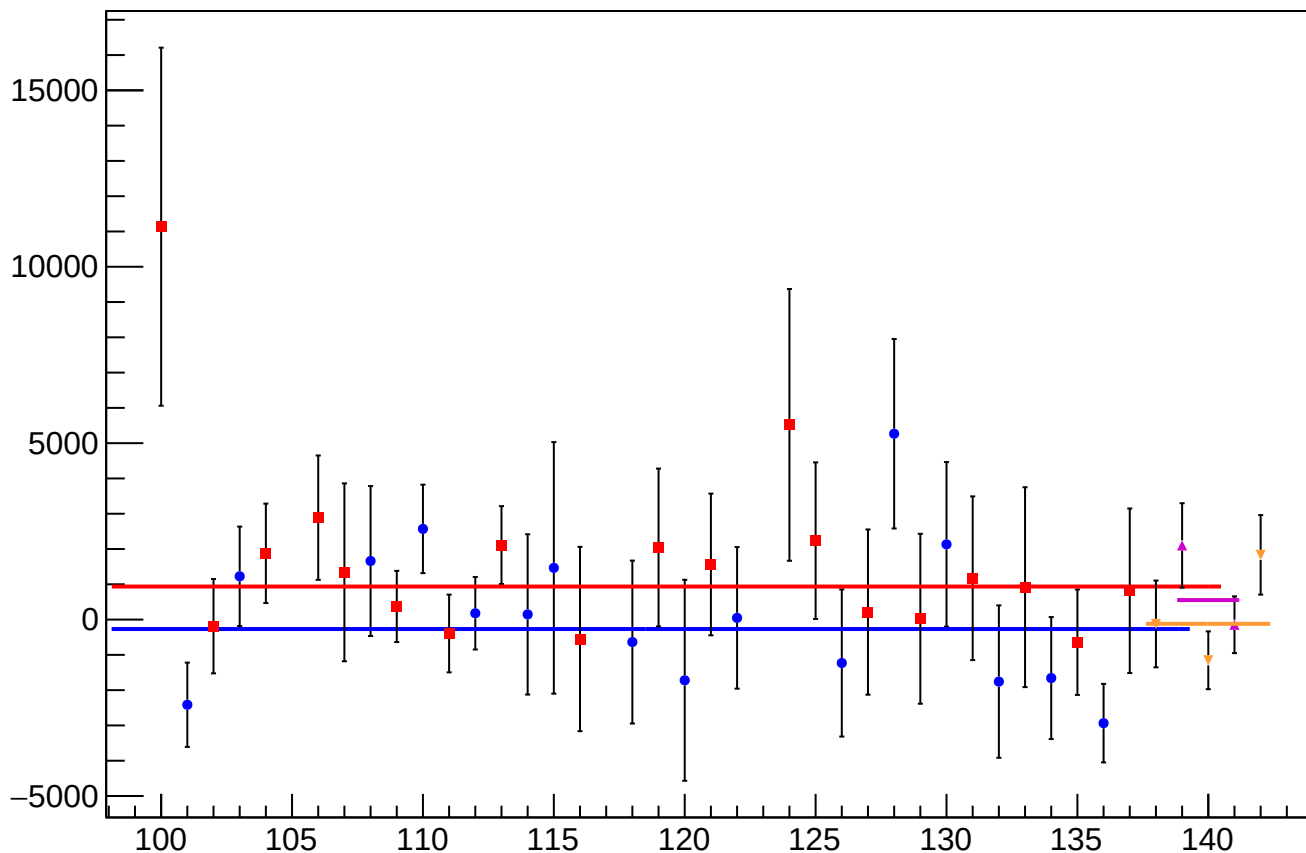
Right: 100.273 $\pm$ 0.019 χ^2 /NDF: 1598073.3/34

In: 102.763 $\pm$ 0.025 χ^2 /NDF: 751312.1/17

Out: 103.468 $\pm$ 0.025 χ^2 /NDF: 1067910.5/21

All: 103.119 $\pm$ 0.018 χ^2 /NDF: 1819622.7/39

asym_sam_3748_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -267.886+/-417.061 χ^2/NDF : 23.5/15

Left Out: -120.610+/-583.505 χ^2/NDF : 4.6/2

Right Out: 936.734+/-396.234 χ^2/NDF : 13.1/18

Left In: 553.137+/-667.413 χ^2/NDF : 2.4/1

Left: 171.273+/-439.289 χ^2/NDF : 7.6/4

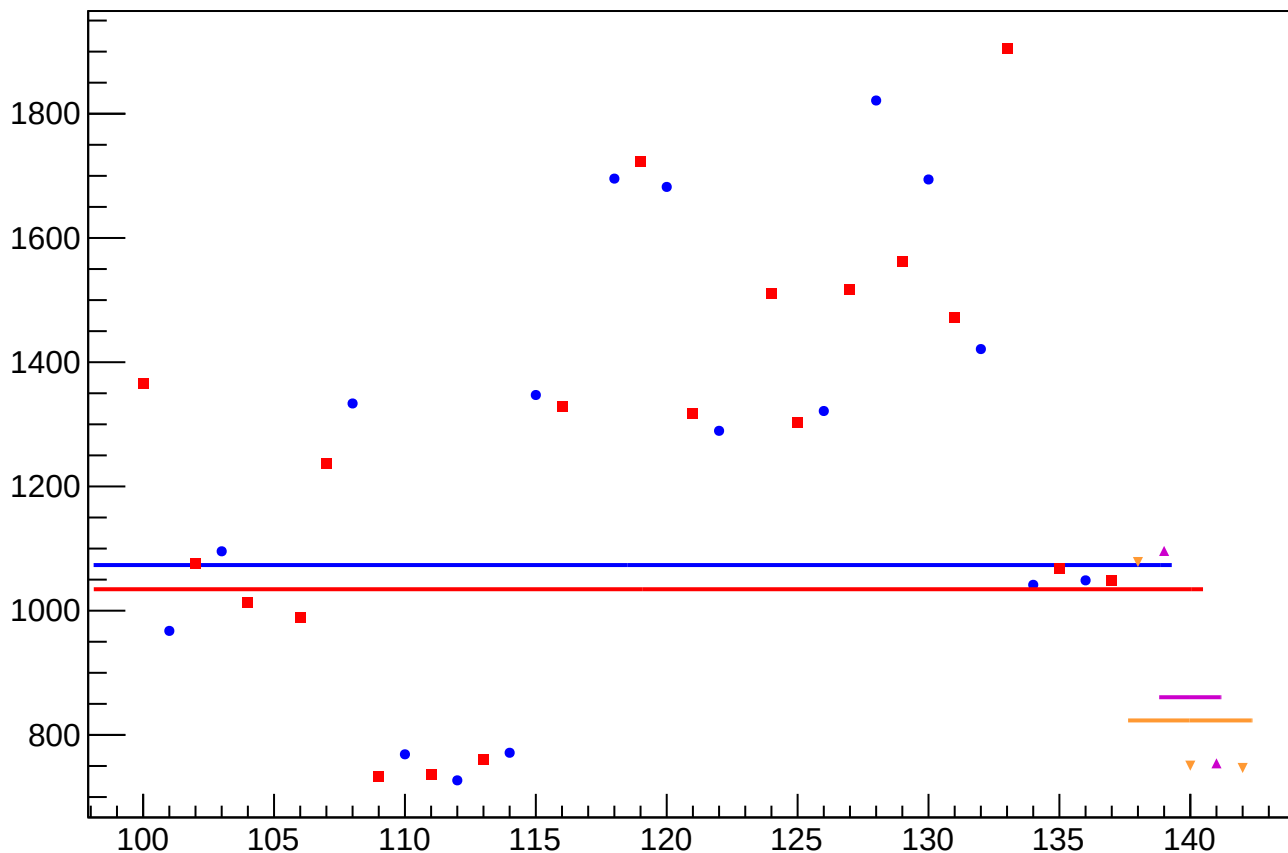
Right: 365.251+/-287.261 χ^2/NDF : 41.0/34

In: -37.318+/-353.684 χ^2/NDF : 27.0/17

Out: 603.042+/-327.800 χ^2/NDF : 20.0/21

All: 307.149+/-240.420 χ^2/NDF : 48.7/39

asym_sam_3748_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1073.456+/-0.295 χ^2/NDF : 1077055.9/15

Left Out: 823.316+/-0.413 χ^2/NDF : 110987.8/2

Right Out: 1034.535+/-0.280 χ^2/NDF : 1229344.1/18

Left In: 860.680+/-0.472 χ^2/NDF : 112496.5/1

Left: 839.503+/-0.311 χ^2/NDF : 227037.0/4

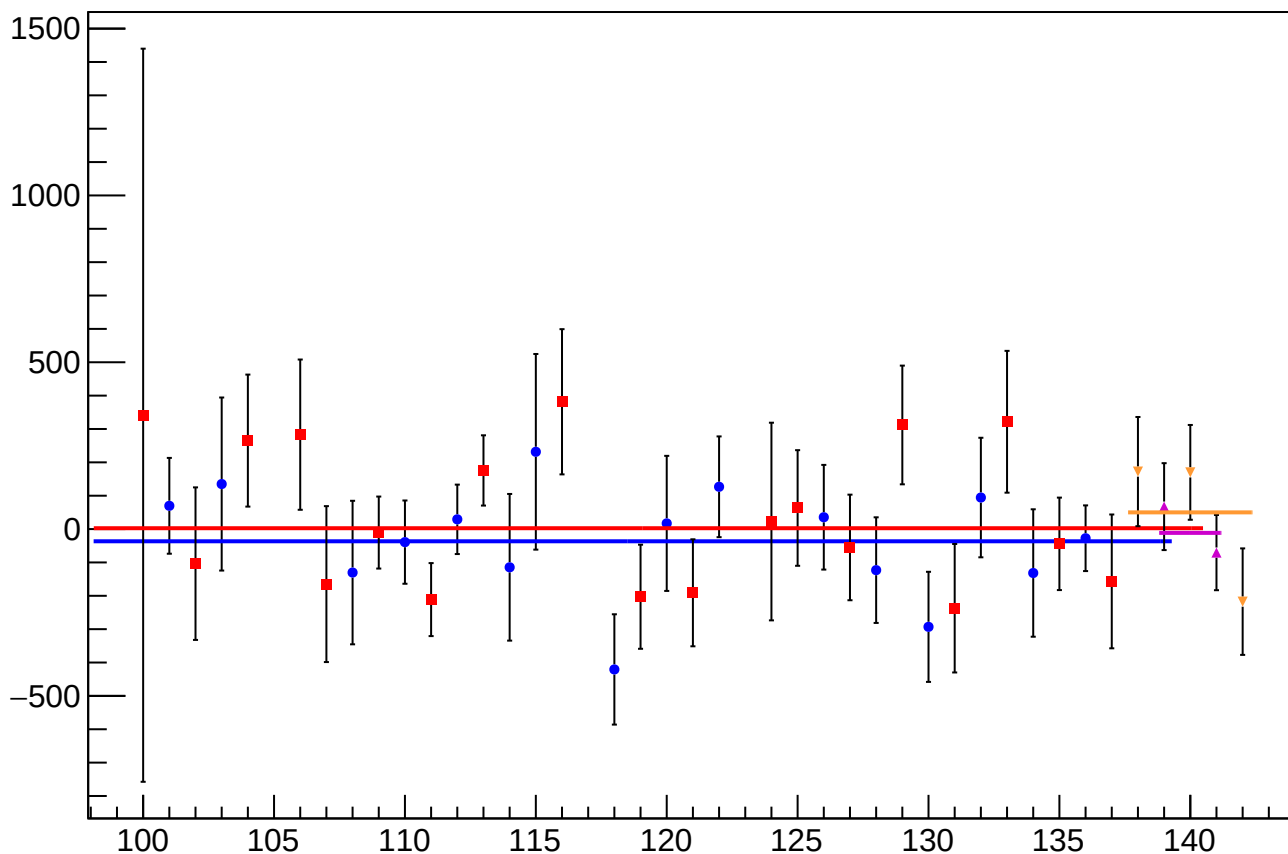
Right: 1052.999+/-0.203 χ^2/NDF : 2315554.6/34

In: 1013.702+/-0.250 χ^2/NDF : 1335742.4/17

Out: 967.875+/-0.232 χ^2/NDF : 1519690.2/21

All: 989.051+/-0.170 χ^2/NDF : 2873494.1/39

eigen_dit_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -36.589 ± 38.991 $\chi^2/\text{NDF}: 12.9/15$

Left Out: 50.046 ± 89.038 $\chi^2/\text{NDF}: 4.1/2$

Right Out: 2.566 ± 38.165 $\chi^2/\text{NDF}: 24.7/18$

Left In: -11.418 ± 85.261 $\chi^2/\text{NDF}: 0.6/1$

Left: 17.982 ± 61.581 $\chi^2/\text{NDF}: 5.0/4$

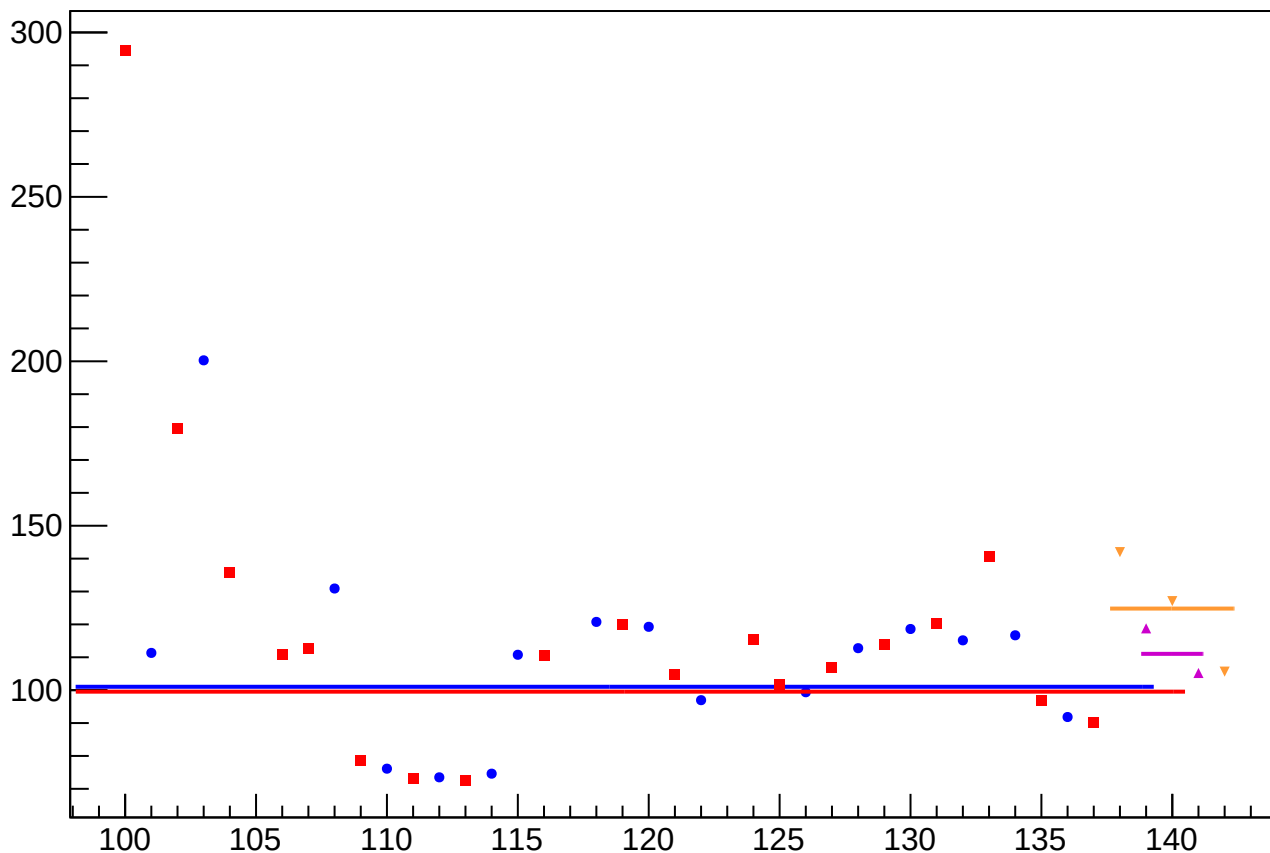
Right: -16.593 ± 27.274 $\chi^2/\text{NDF}: 38.1/34$

In: -32.236 ± 35.459 $\chi^2/\text{NDF}: 13.6/17$

Out: 9.935 ± 35.078 $\chi^2/\text{NDF}: 29.1/21$

All: -10.923 ± 24.938 $\chi^2/\text{NDF}: 43.4/39$

eigen_dit_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 101.031+/-0.028 χ^2/NDF : 716094.5/15

Left Out: 124.811+/-0.063 χ^2/NDF : 51385.9/2

Right Out: 99.547+/-0.027 χ^2/NDF : 880499.8/18

Left In: 111.043+/-0.060 χ^2/NDF : 12409.3/1

Left: 117.629+/-0.044 χ^2/NDF : 88742.1/4

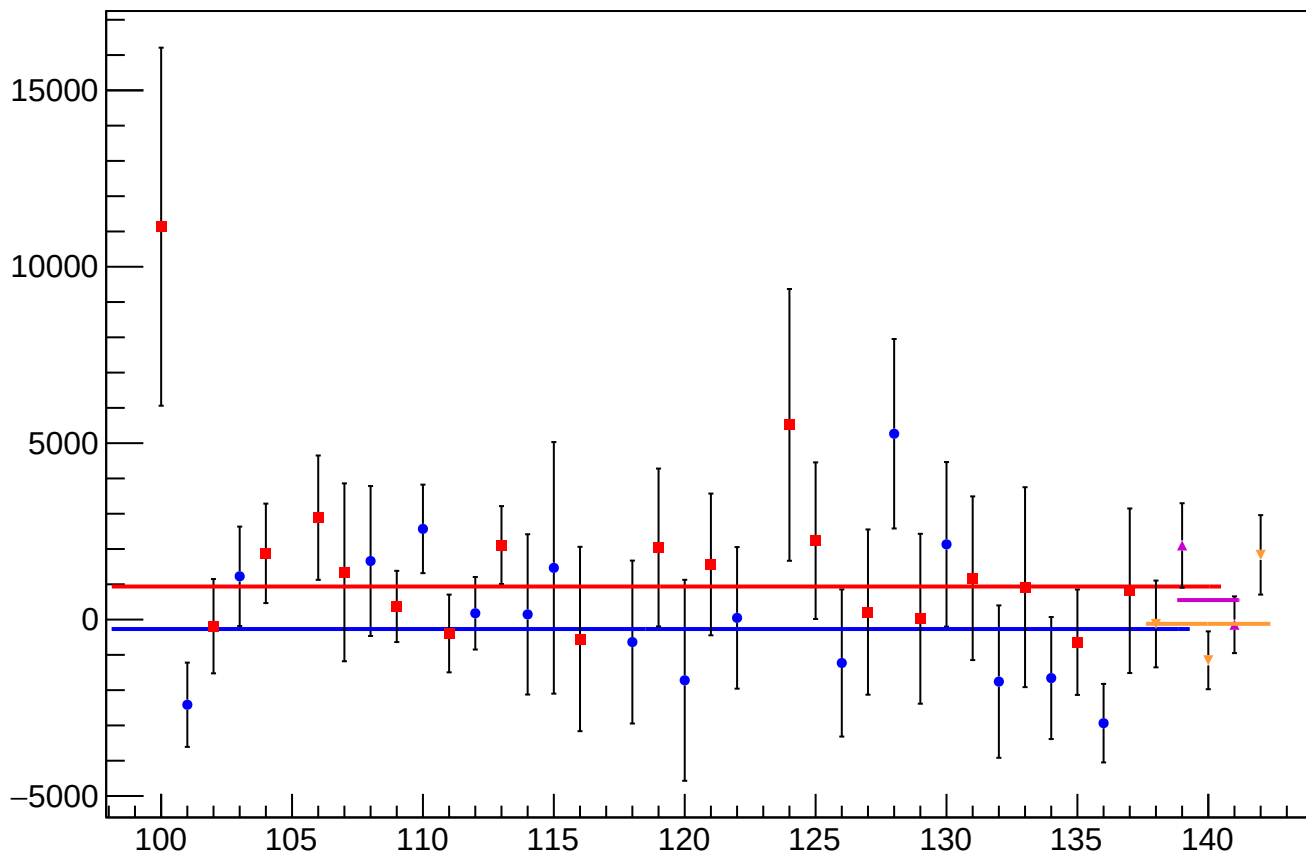
Right: 100.273+/-0.019 χ^2/NDF : 1598074.0/34

In: 102.763+/-0.025 χ^2/NDF : 751310.2/17

Out: 103.468+/-0.025 χ^2/NDF : 1067912.1/21

All: 103.119+/-0.018 χ^2/NDF : 1819622.4/39

asym_sam_3748_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -267.885+/-417.061 χ^2/NDF : 23.5/15

Left Out: -120.613+/-583.504 χ^2/NDF : 4.6/2

Right Out: 936.732+/-396.234 χ^2/NDF : 13.1/18

Left In: 553.137+/-667.411 χ^2/NDF : 2.4/1

Left: 171.271+/-439.288 χ^2/NDF : 7.6/4

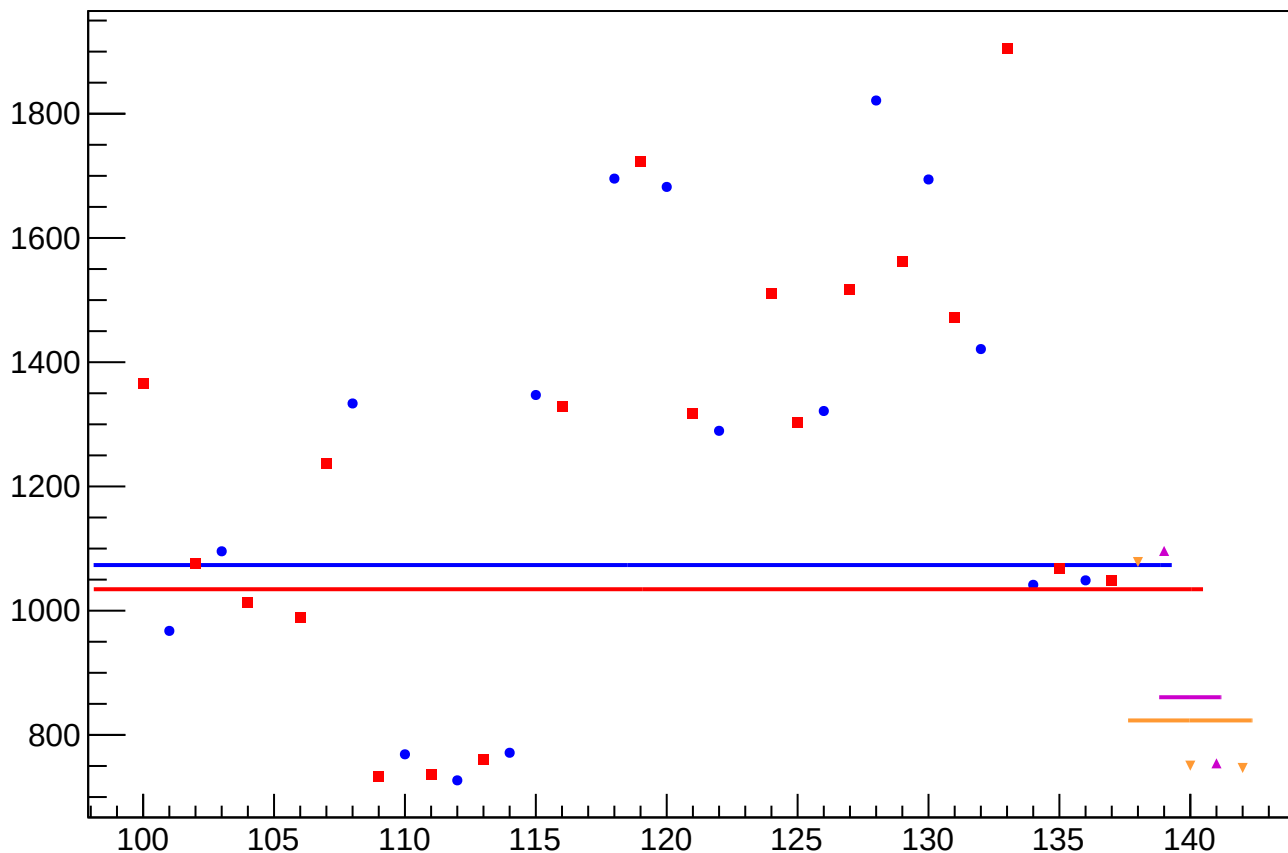
Right: 365.251+/-287.260 χ^2/NDF : 41.0/34

In: -37.317+/-353.684 χ^2/NDF : 27.0/17

Out: 603.040+/-327.800 χ^2/NDF : 20.0/21

All: 307.148+/-240.420 χ^2/NDF : 48.7/39

asym_sam_3748_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1073.454+/-0.295 χ^2/NDF : 1077061.8/15

Left Out: 823.315+/-0.413 χ^2/NDF : 110987.4/2

Right Out: 1034.533+/-0.280 χ^2/NDF : 1229346.7/18

Left In: 860.678+/-0.472 χ^2/NDF : 112497.4/1

Left: 839.501+/-0.311 χ^2/NDF : 227037.3/4

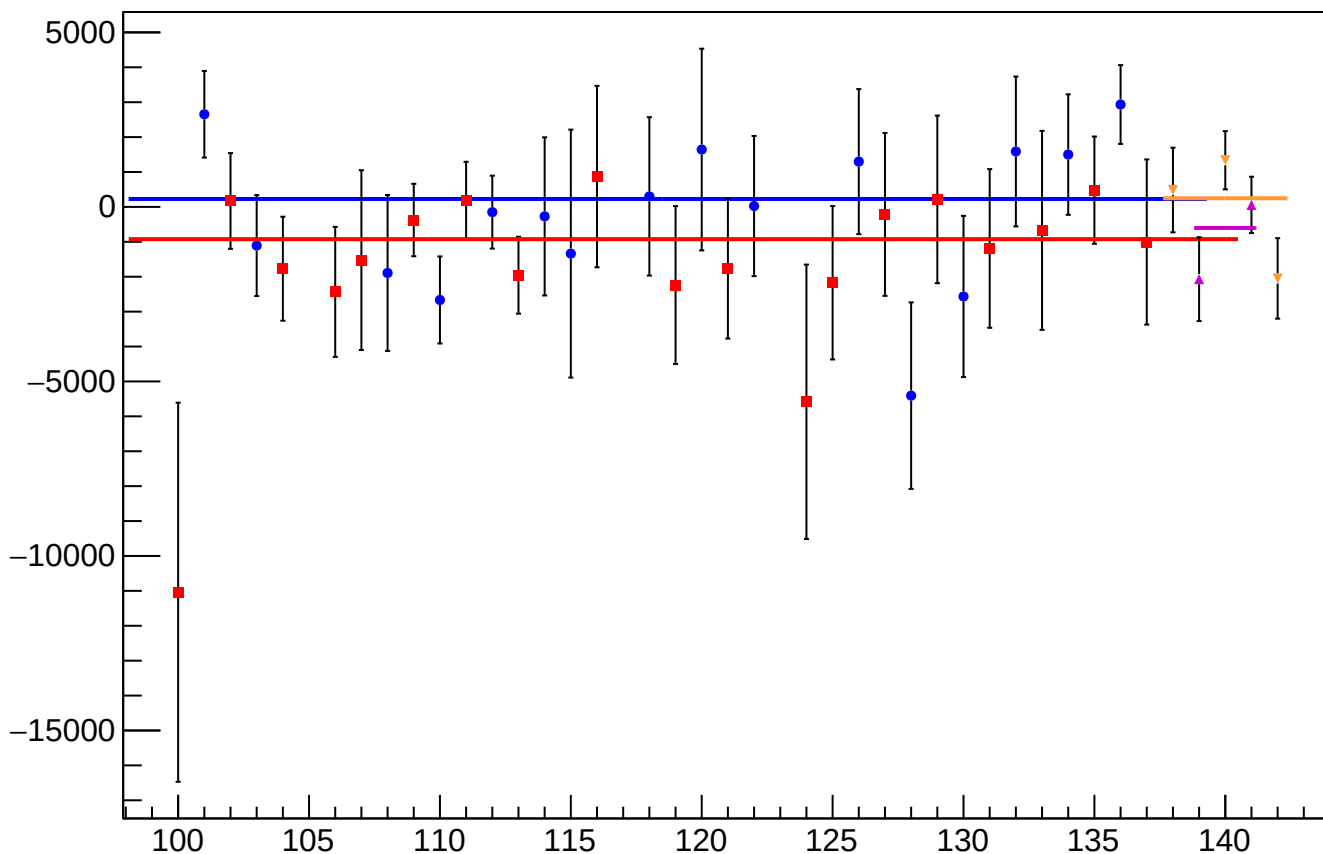
Right: 1052.997+/-0.203 χ^2/NDF : 2315562.9/34

In: 1013.700+/-0.250 χ^2/NDF : 1335749.2/17

Out: 967.874+/-0.232 χ^2/NDF : 1519691.7/21

All: 989.049+/-0.170 χ^2/NDF : 2873502.1/39

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 227.502 $\pm$ 421.838 χ^2 /NDF: 24.4/15

Left Out: 247.632 $\pm$ 590.362 χ^2 /NDF:5.7/2

Right Out: -923.649 $\pm$ 403.102 χ^2 /NDF: 11.2/18

Left In: -603.156 $\pm$ 669.974 χ^2 /NDF:2.2/1

Left: -124.234 $\pm$ 442.935 χ^2 /NDF: 8.8/4

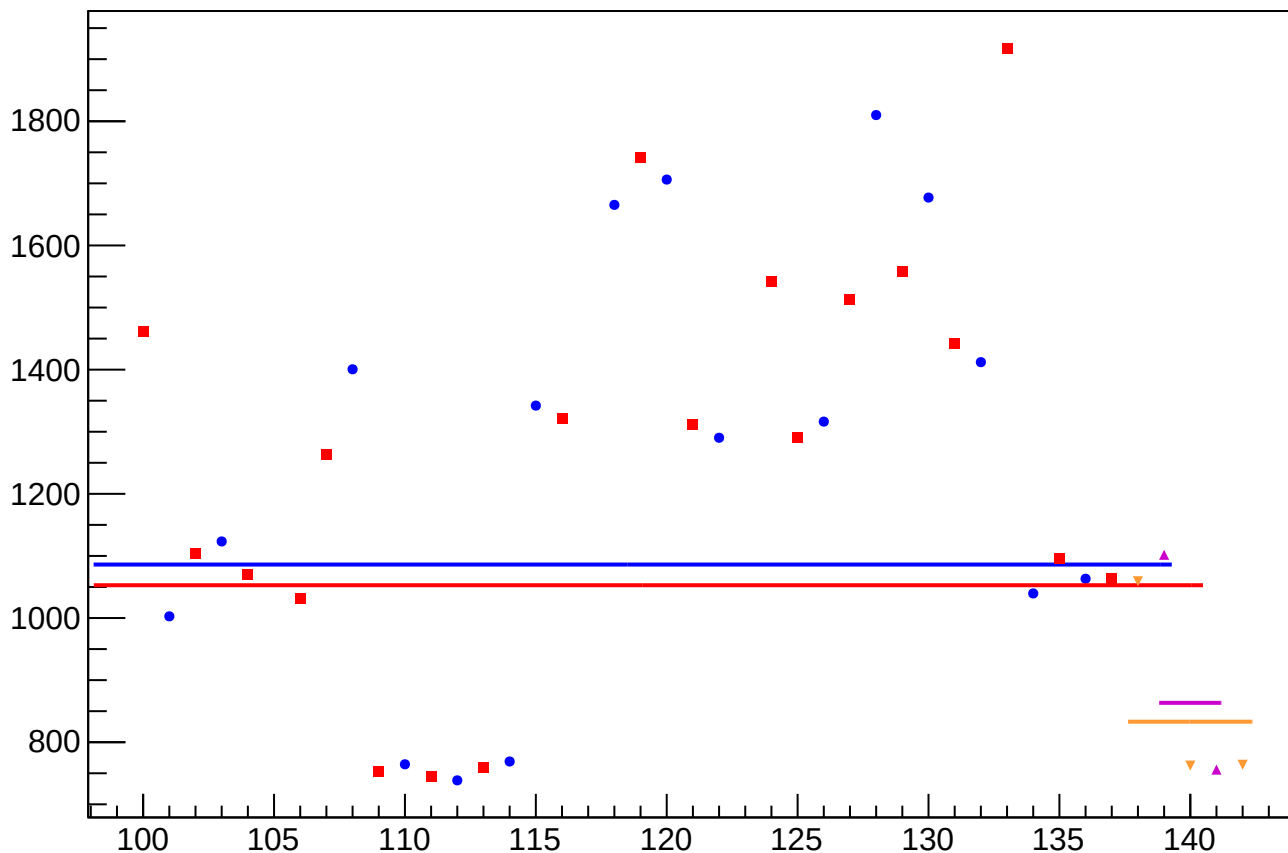
Right: -374.204 $\pm$ 291.435 χ^2 /NDF: 39.5/34

In: -8.315 $\pm$ 356.972 χ^2 /NDF:27.7/17

Out: -551.211 $\pm$ 332.901 χ^2 /NDF:19.6/21

All: -298.683 $\pm$ 243.462 χ^2 /NDF: 48.5/39

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 1086.137+/-0.298 χ^2/NDF : 1047479.6/15

Left Out: 833.051+/-0.417 χ^2/NDF : 91180.1/2

Right Out: 1052.831+/-0.285 χ^2/NDF : 1194420.8/18

Left In: 863.425+/-0.474 χ^2/NDF : 114203.6/1

Left: 846.327+/-0.313 χ^2/NDF : 207697.8/4

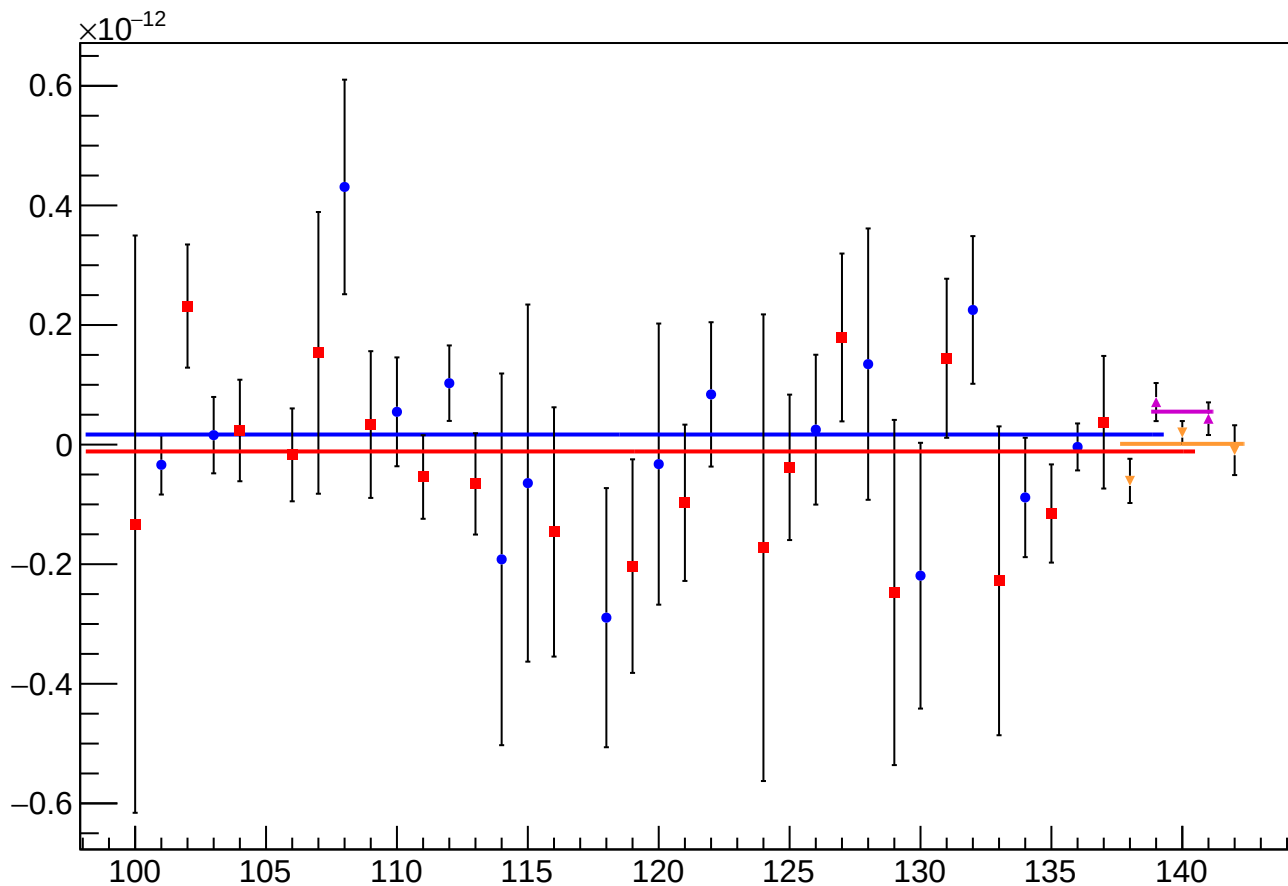
Right: 1068.728+/-0.206 χ^2/NDF : 2248417.5/34

In: 1022.911+/-0.252 χ^2/NDF : 1319946.3/17

Out: 982.946+/-0.235 χ^2/NDF : 1474647.0/21

All: 1001.536+/-0.172 χ^2/NDF : 2808000.8/39

asym_sam_3748_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3.8/2

Right Out: -0.000+/-0.000 χ^2/NDF : 15.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.4/1

Left: 0.000+/-0.000 χ^2/NDF : 8.6/4

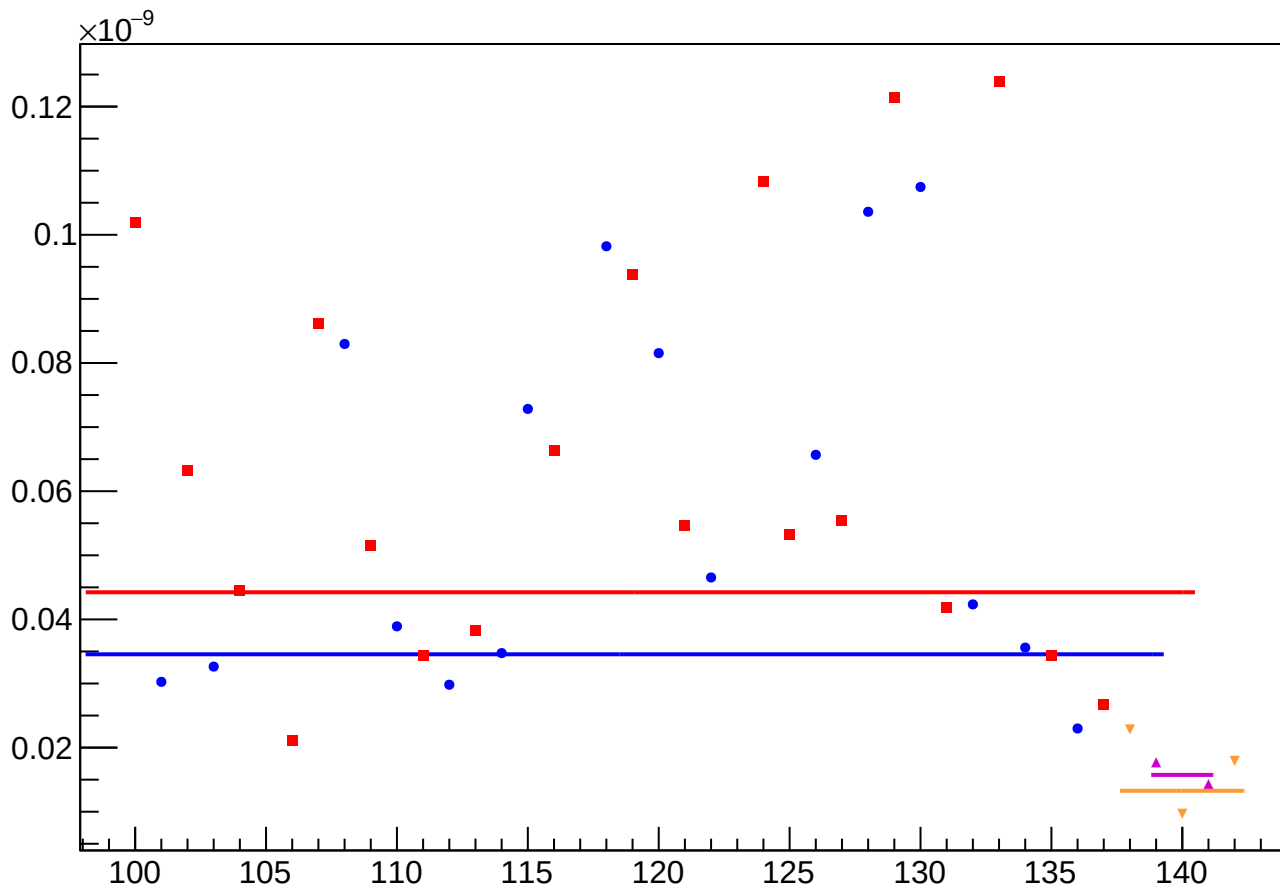
Right: 0.000+/-0.000 χ^2/NDF : 33.4/34

In: 0.000+/-0.000 χ^2/NDF : 19.0/17

Out: -0.000+/-0.000 χ^2/NDF : 19.8/21

All: 0.000+/-0.000 χ^2/NDF : 42.5/39

asym_sam_3748_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1188815.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 228489.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1073061.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 13115.9/1

Left: 0.000+/-0.000 χ^2/NDF : 259747.9/4

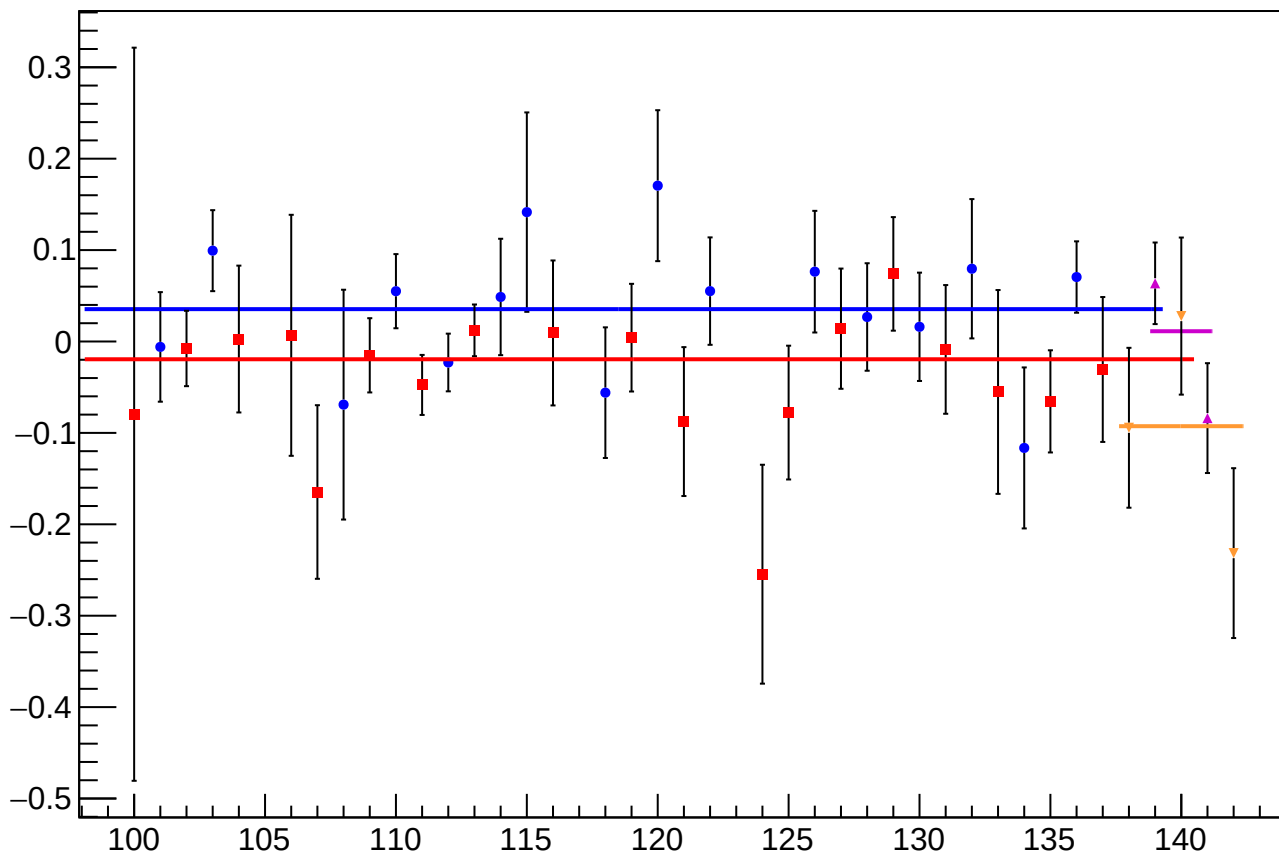
Right: 0.000+/-0.000 χ^2/NDF : 2418011.3/34

In: 0.000+/-0.000 χ^2/NDF : 1983580.0/17

Out: 0.000+/-0.000 χ^2/NDF : 3274778.3/21

All: 0.000+/-0.000 χ^2/NDF : 5317073.6/39

asym_sam_3748_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 $\pm$ 0.014 χ^2 /NDF: 16.9/15

Left Out: -0.093 $\pm$ 0.051 χ^2 /NDF:4.2/2

Right Out: -0.019 $\pm$ 0.013 χ^2 /NDF: 13.4/18

Left In: 0.011 $\pm$ 0.036 χ^2 /NDF:3.9/1

Left: -0.023 $\pm$ 0.029 χ^2 /NDF: 10.8/4

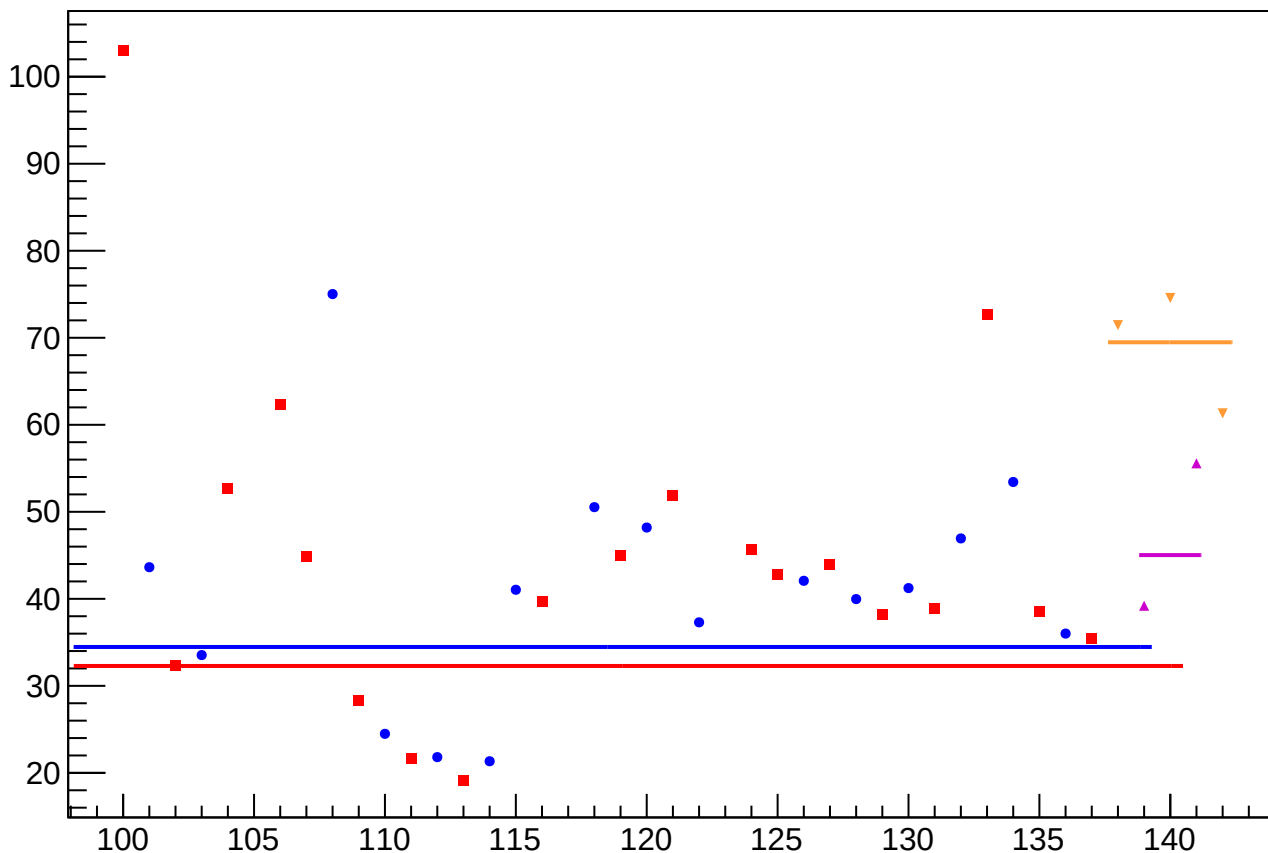
Right: 0.006 $\pm$ 0.010 χ^2 /NDF: 38.6/34

In: 0.032 $\pm$ 0.013 χ^2 /NDF:21.2/17

Out: -0.024 $\pm$ 0.013 χ^2 /NDF:19.5/21

All: 0.004 $\pm$ 0.009 χ^2 /NDF: 50.3/39

asym_sam_3748_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.468 $\pm$ 0.010 χ^2 /NDF: 1171203.3/15

Left Out: 69.483 $\pm$ 0.036 χ^2 /NDF: 23494.3/2

Right Out: 32.285 $\pm$ 0.009 χ^2 /NDF: 1672637.0/18

Left In: 45.026 $\pm$ 0.025 χ^2 /NDF: 95642.1/1

Left: 53.072 $\pm$ 0.021 χ^2 /NDF: 425762.9/4

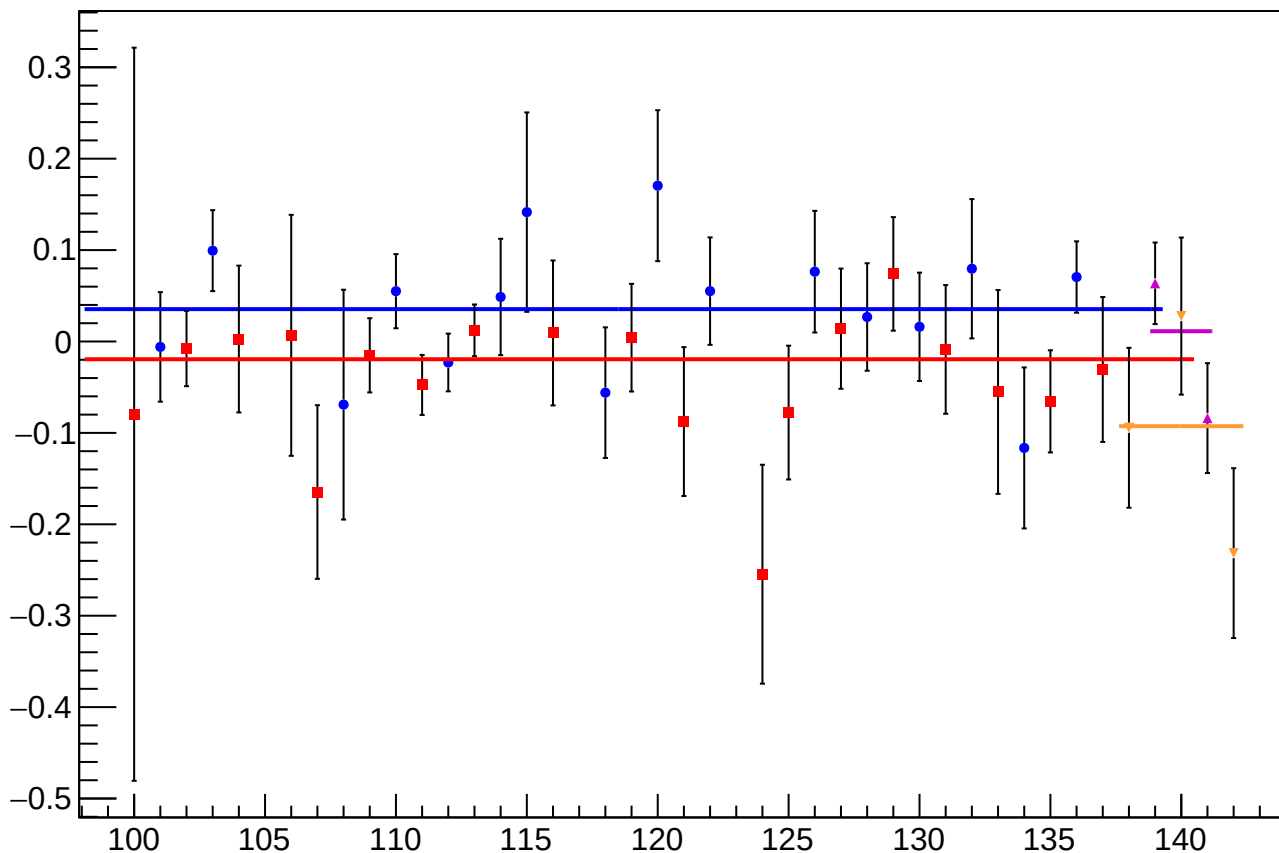
Right: 33.314 $\pm$ 0.007 χ^2 /NDF: 2869944.8/34

In: 35.848 $\pm$ 0.009 χ^2 /NDF: 1417850.4/17

Out: 34.581 $\pm$ 0.009 χ^2 /NDF: 2687989.3/21

All: 35.203 $\pm$ 0.006 χ^2 /NDF: 4115591.0/39

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.014 $\chi^2/\text{NDF}: 16.9/15$

Left Out: -0.093 ± 0.051 $\chi^2/\text{NDF}: 4.2/2$

Right Out: -0.019 ± 0.013 $\chi^2/\text{NDF}: 13.4/18$

Left In: 0.011 ± 0.036 $\chi^2/\text{NDF}: 3.9/1$

Left: -0.023 ± 0.029 $\chi^2/\text{NDF}: 10.8/4$

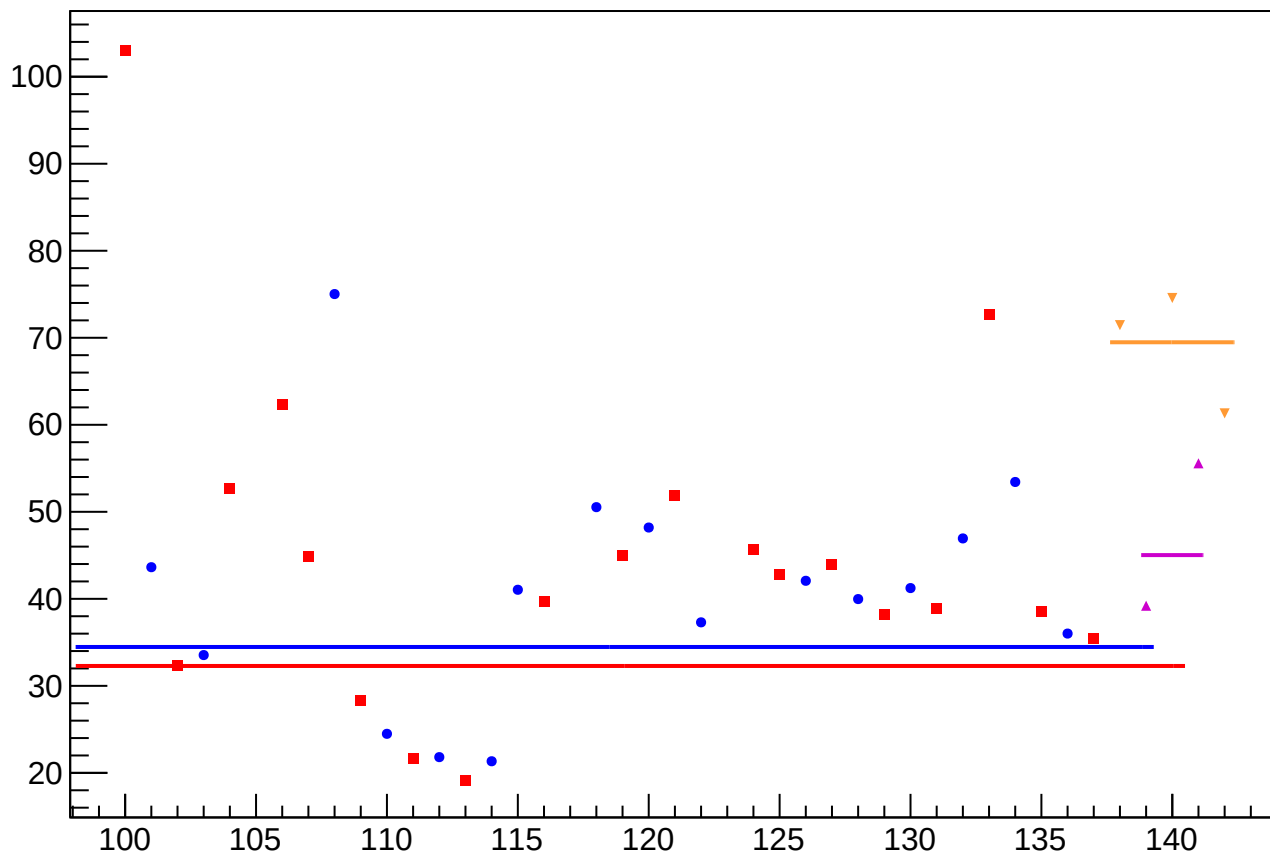
Right: 0.006 ± 0.010 $\chi^2/\text{NDF}: 38.6/34$

In: 0.032 ± 0.013 $\chi^2/\text{NDF}: 21.2/17$

Out: -0.024 ± 0.013 $\chi^2/\text{NDF}: 19.5/21$

All: 0.004 ± 0.009 $\chi^2/\text{NDF}: 50.3/39$

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.468 $\pm$ 0.010 χ^2/NDF : 1171203.3/15

Left Out: 69.483 $\pm$ 0.036 χ^2/NDF : 23494.3/2

Right Out: 32.285 $\pm$ 0.009 χ^2/NDF : 1672637.0/18

Left In: 45.026 $\pm$ 0.025 χ^2/NDF : 95642.1/1

Left: 53.072 $\pm$ 0.021 χ^2/NDF : 425762.9/4

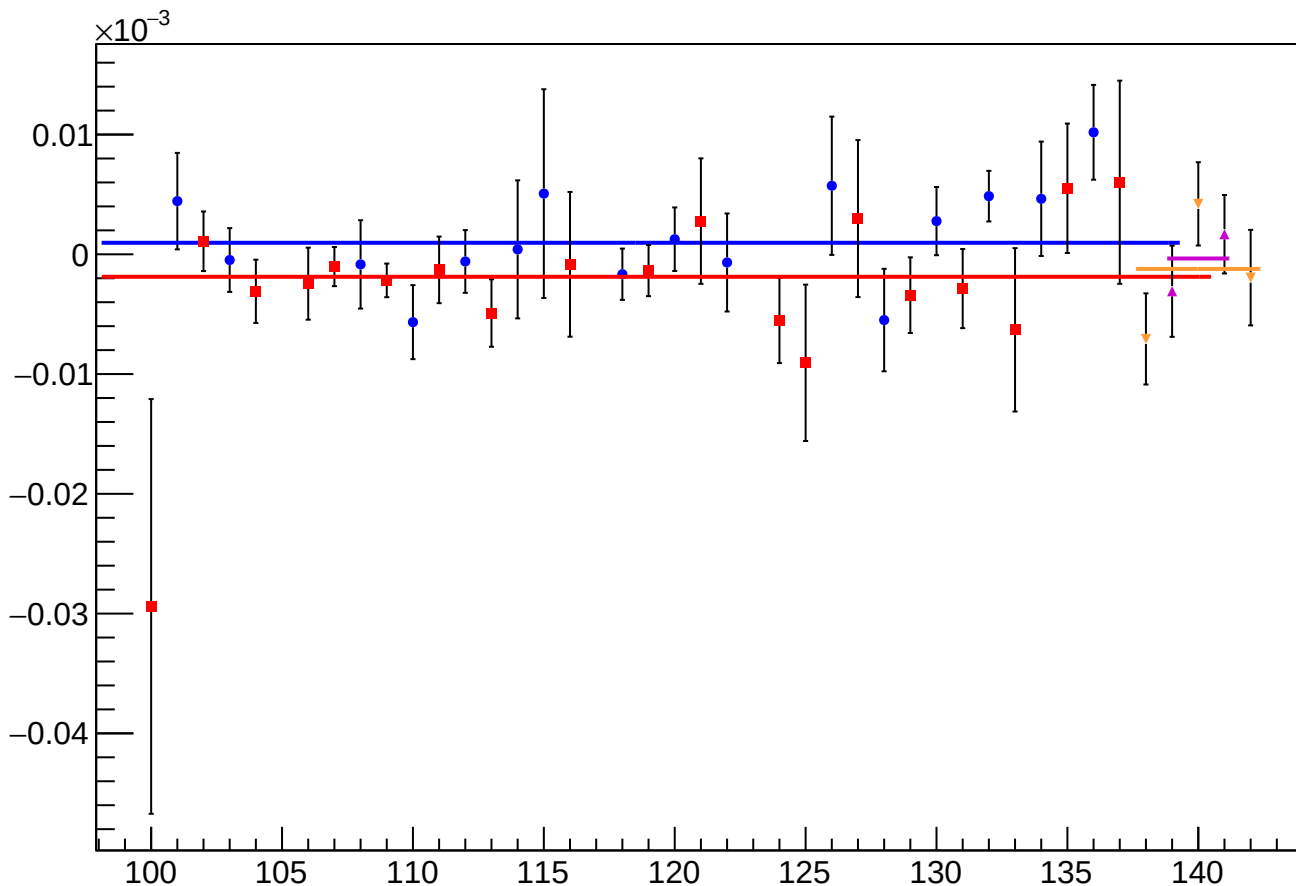
Right: 33.314 $\pm$ 0.007 χ^2/NDF : 2869944.8/34

In: 35.848 $\pm$ 0.009 χ^2/NDF : 1417850.4/17

Out: 34.581 $\pm$ 0.009 χ^2/NDF : 2687989.3/21

All: 35.203 $\pm$ 0.006 χ^2/NDF : 4115591.0/39

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 20.9/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:4.8/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 12.9/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:0.9/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 5.8/4

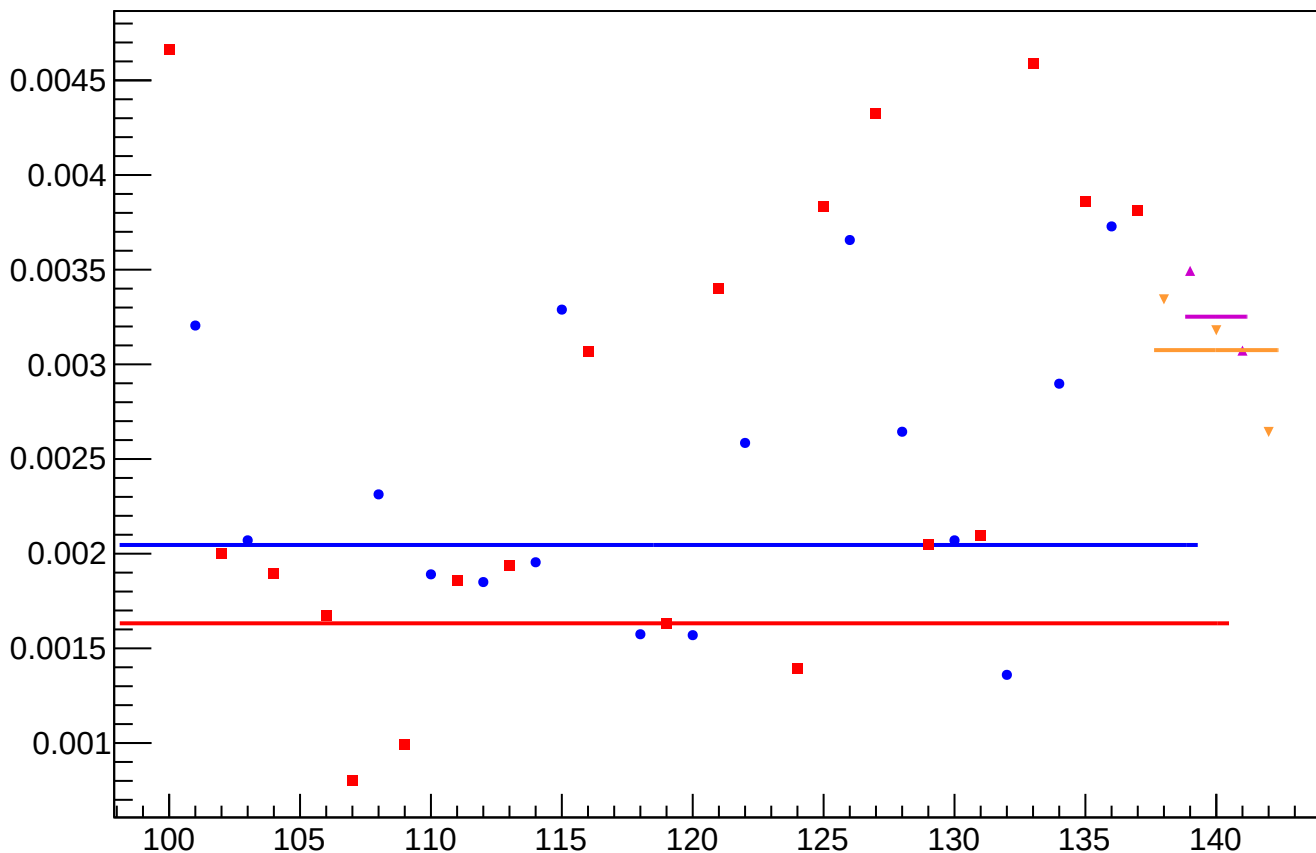
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 41.1/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:22.1/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:17.8/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 46.9/39

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 1260485.9/15

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:35233.8/2

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 2928991.9/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:14060.4/1

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 55050.4/4

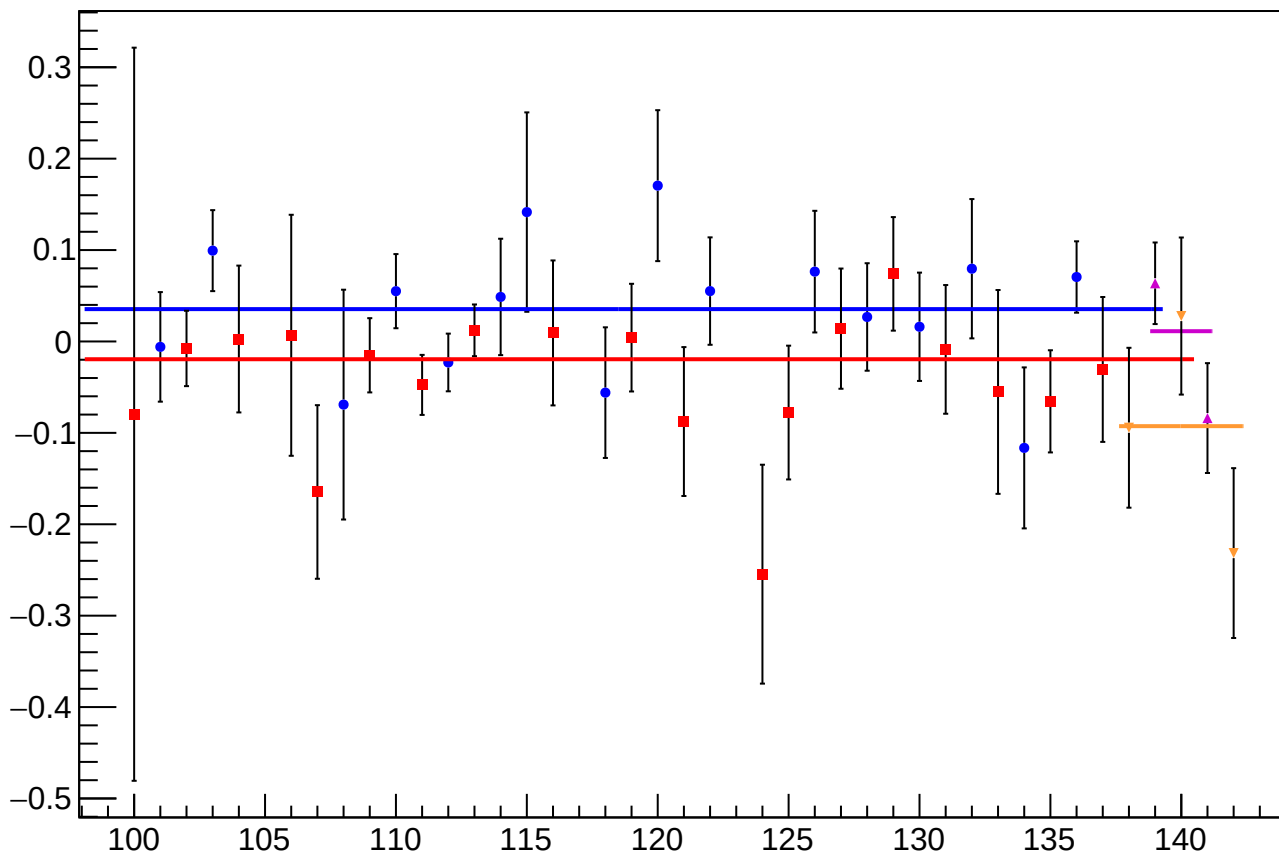
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 4499888.8/34

In: 0.002 $\pm$ 0.000 χ^2 /NDF:1700787.5/17

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:3779365.3/21

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 5803731.2/39

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.014 $\chi^2/\text{NDF}: 16.9/15$

Left Out: -0.093 ± 0.051 $\chi^2/\text{NDF}: 4.2/2$

Right Out: -0.019 ± 0.013 $\chi^2/\text{NDF}: 13.4/18$

Left In: 0.011 ± 0.036 $\chi^2/\text{NDF}: 3.9/1$

Left: -0.023 ± 0.029 $\chi^2/\text{NDF}: 10.8/4$

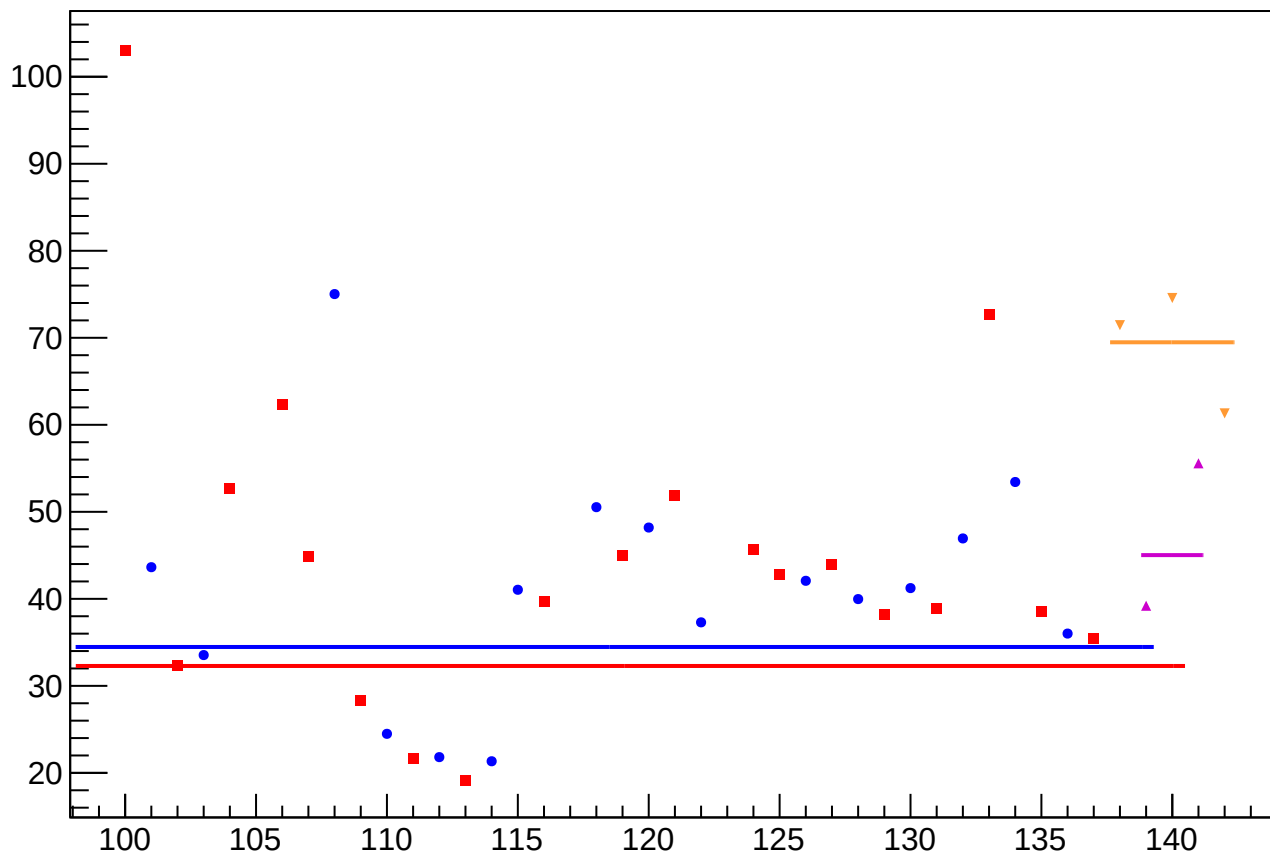
Right: 0.006 ± 0.010 $\chi^2/\text{NDF}: 38.6/34$

In: 0.032 ± 0.013 $\chi^2/\text{NDF}: 21.2/17$

Out: -0.024 ± 0.013 $\chi^2/\text{NDF}: 19.5/21$

All: 0.004 ± 0.009 $\chi^2/\text{NDF}: 50.3/39$

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.469+/-0.010 χ^2/NDF : 1171158.4/15

Left Out: 69.484+/-0.036 χ^2/NDF : 23494.5/2

Right Out: 32.285+/-0.009 χ^2/NDF : 1672606.5/18

Left In: 45.026+/-0.025 χ^2/NDF : 95652.8/1

Left: 53.072+/-0.021 χ^2/NDF : 425778.5/4

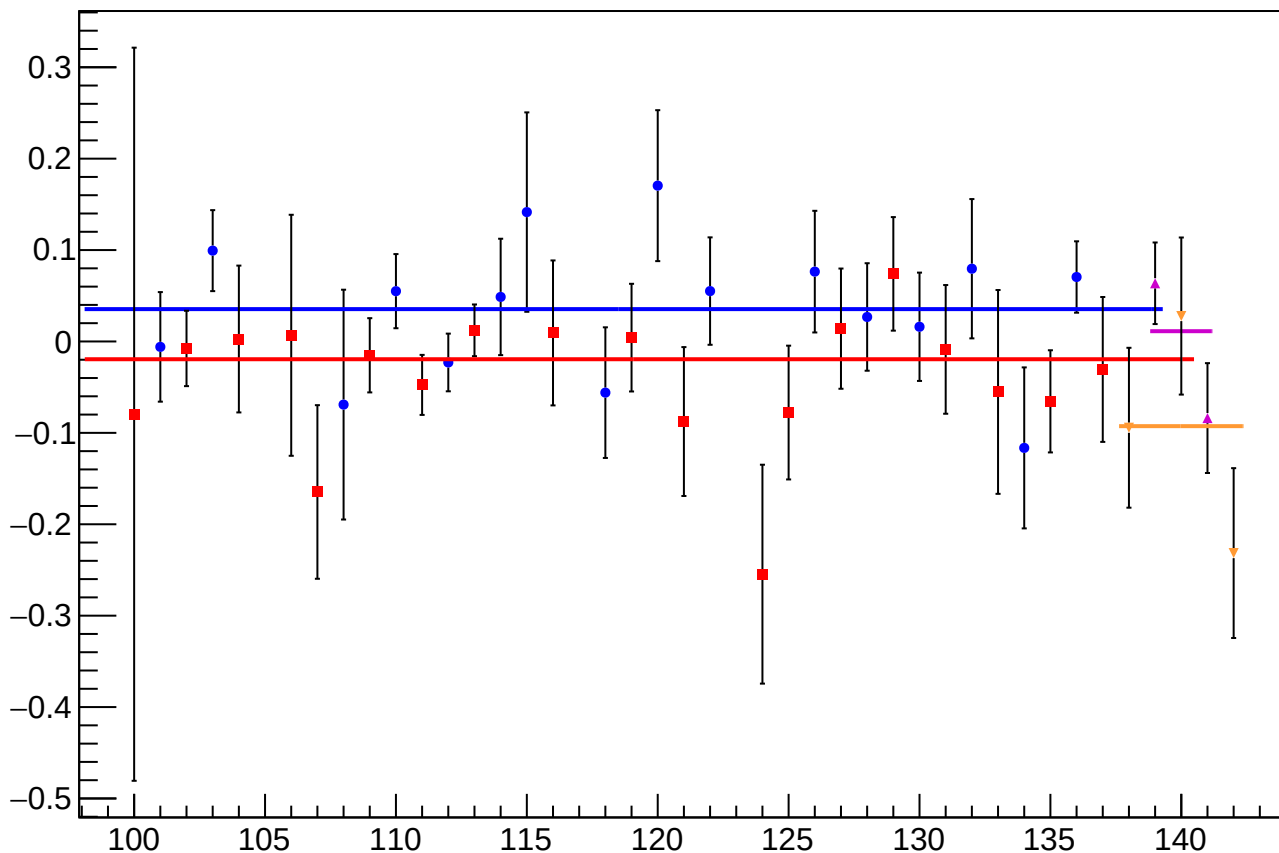
Right: 33.315+/-0.007 χ^2/NDF : 2869868.2/34

In: 35.848+/-0.009 χ^2/NDF : 1417806.5/17

Out: 34.581+/-0.009 χ^2/NDF : 2687946.5/21

All: 35.203+/-0.006 χ^2/NDF : 4115502.9/39

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 $\pm$ 0.014 χ^2 /NDF: 16.9/15

Left Out: -0.093 $\pm$ 0.051 χ^2 /NDF:4.2/2

Right Out: -0.019 $\pm$ 0.013 χ^2 /NDF: 13.4/18

Left In: 0.011 $\pm$ 0.036 χ^2 /NDF:3.9/1

Left: -0.023 $\pm$ 0.029 χ^2 /NDF: 10.8/4

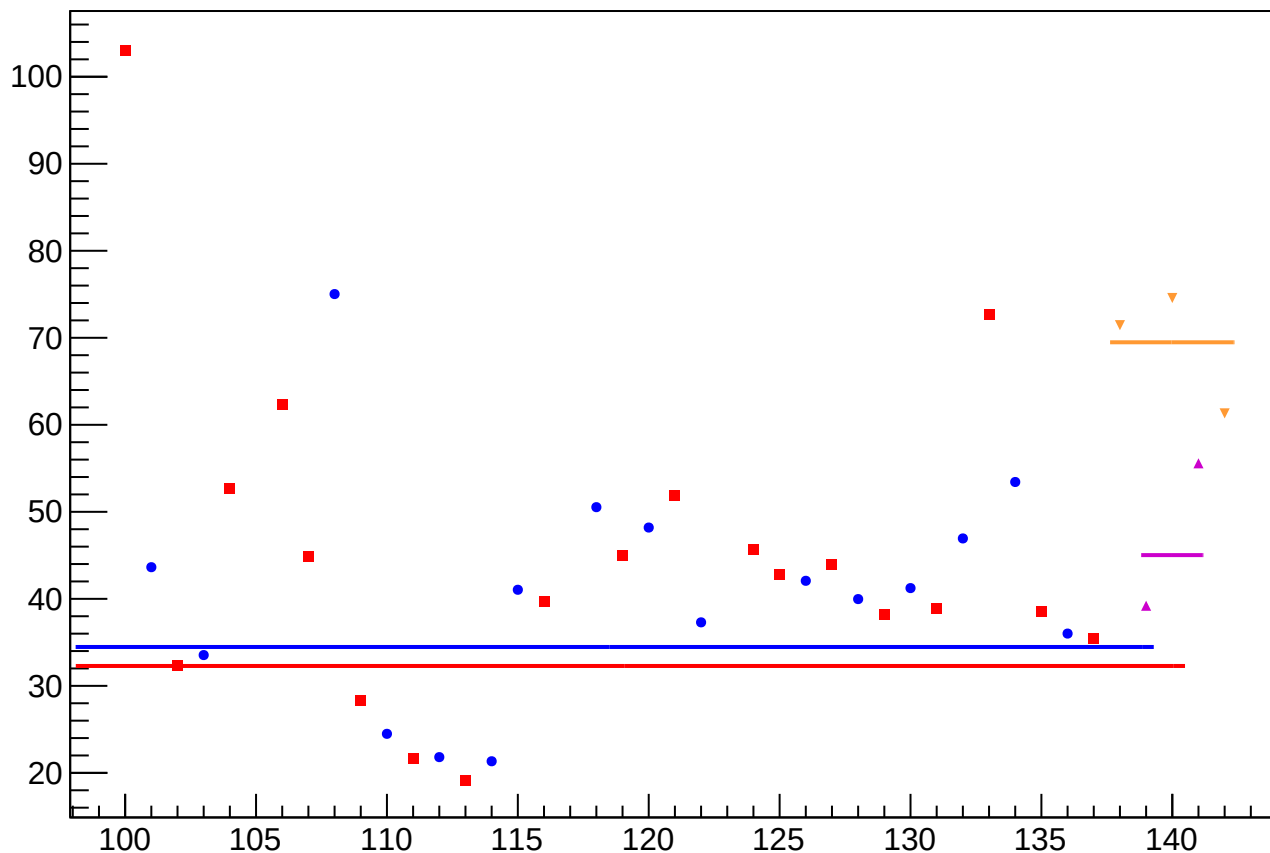
Right: 0.006 $\pm$ 0.010 χ^2 /NDF: 38.6/34

In: 0.032 $\pm$ 0.013 χ^2 /NDF:21.2/17

Out: -0.024 $\pm$ 0.013 χ^2 /NDF:19.5/21

All: 0.004 $\pm$ 0.009 χ^2 /NDF: 50.3/39

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.469+/-0.010 χ^2/NDF : 1171158.4/15

Left Out: 69.484+/-0.036 χ^2/NDF : 23494.5/2

Right Out: 32.285+/-0.009 χ^2/NDF : 1672606.5/18

Left In: 45.026+/-0.025 χ^2/NDF : 95652.8/1

Left: 53.072+/-0.021 χ^2/NDF : 425778.5/4

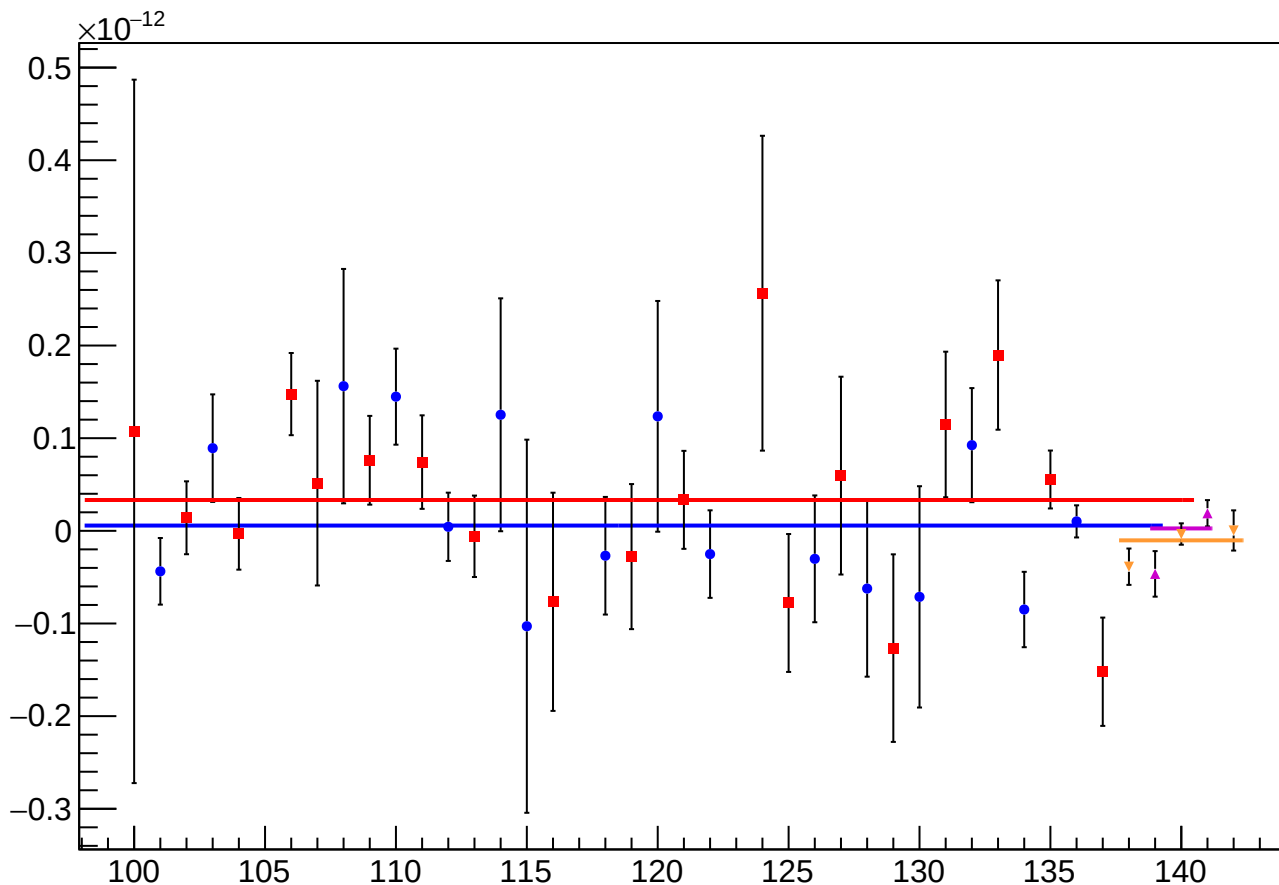
Right: 33.315+/-0.007 χ^2/NDF : 2869868.2/34

In: 35.848+/-0.009 χ^2/NDF : 1417806.5/17

Out: 34.581+/-0.009 χ^2/NDF : 2687946.5/21

All: 35.203+/-0.006 χ^2/NDF : 4115502.9/39

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 2.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 33.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 5.3/1

Left: -0.000+/-0.000 χ^2/NDF : 8.7/4

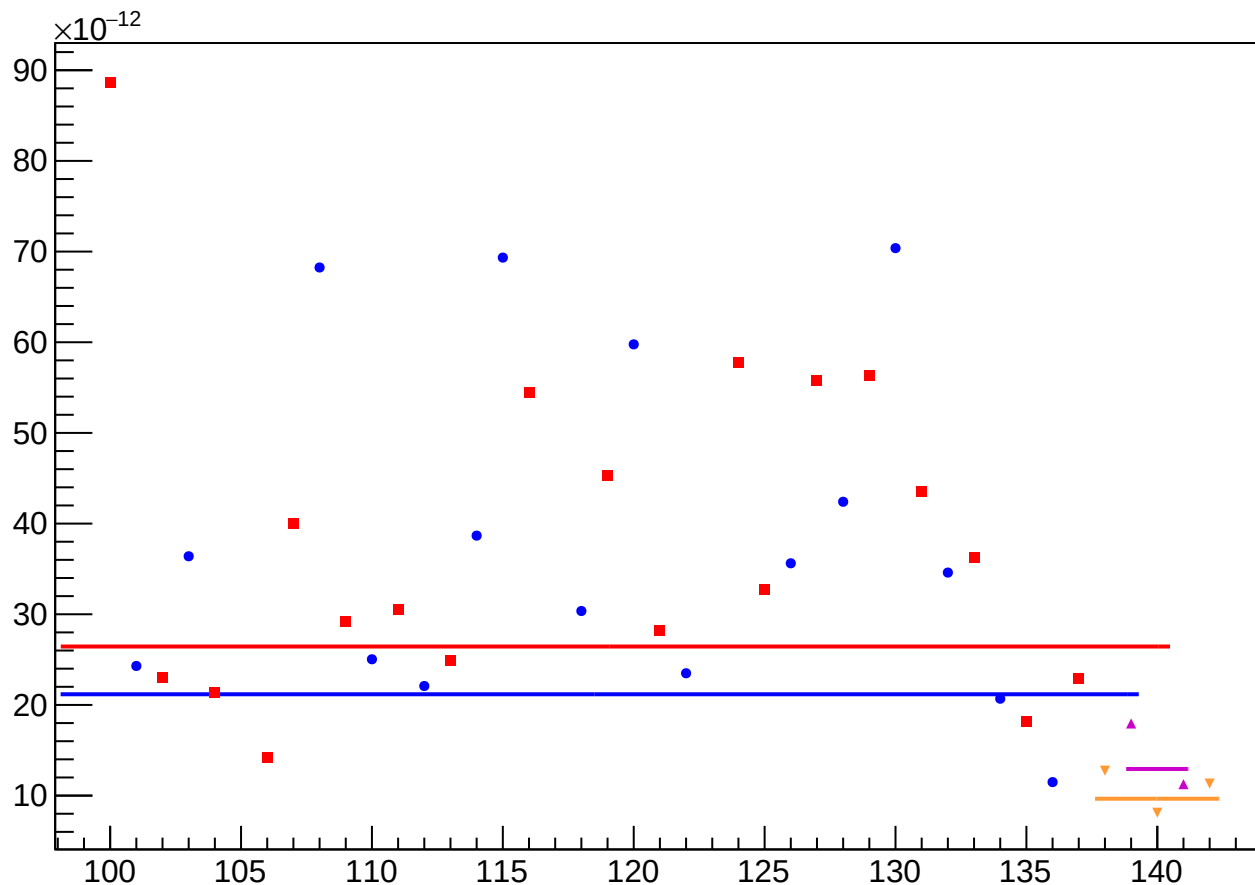
Right: 0.000+/-0.000 χ^2/NDF : 59.6/34

In: 0.000+/-0.000 χ^2/NDF : 28.9/17

Out: 0.000+/-0.000 χ^2/NDF : 43.7/21

All: 0.000+/-0.000 χ^2/NDF : 72.6/39

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2081289.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 97353.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1217987.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 111159.6/1

Left: 0.000+/-0.000 χ^2/NDF : 300915.6/4

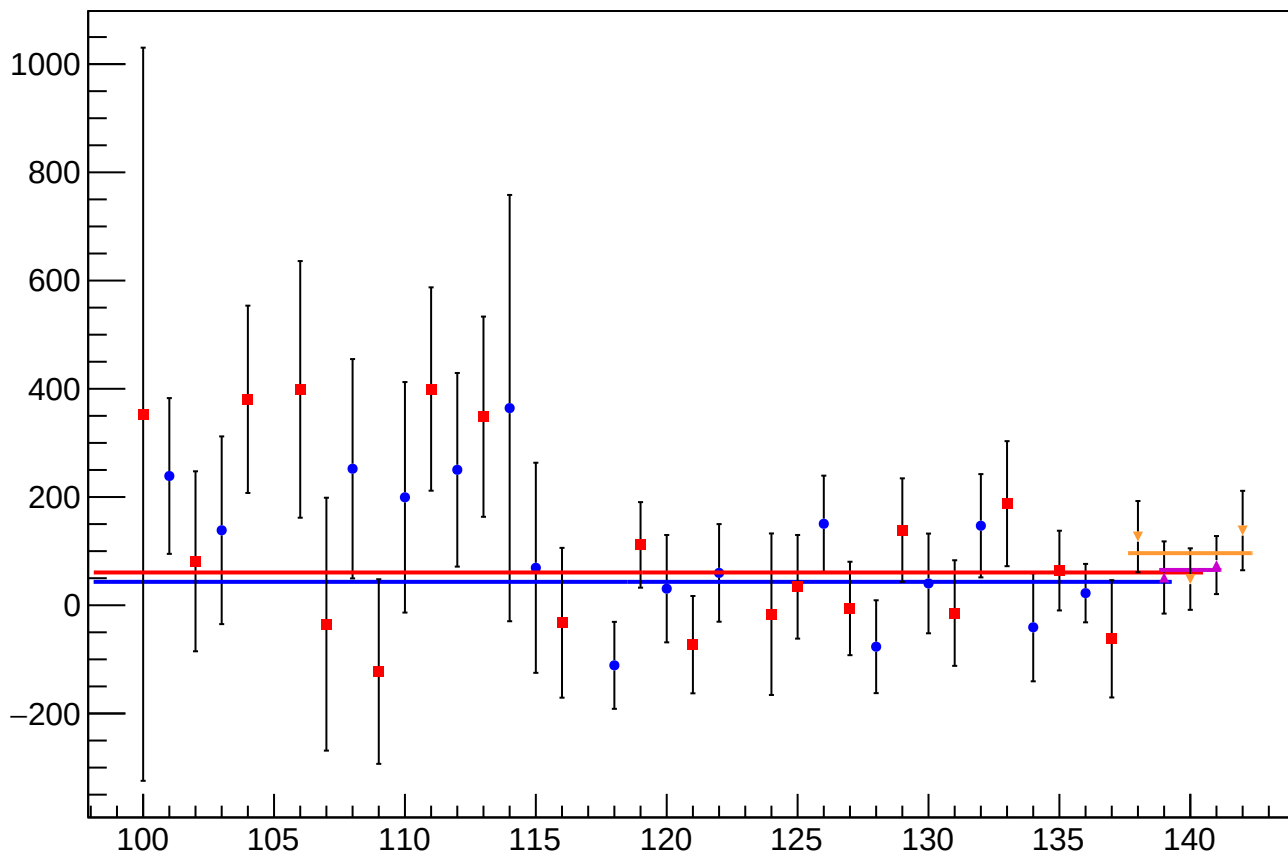
Right: 0.000+/-0.000 χ^2/NDF : 3483999.9/34

In: 0.000+/-0.000 χ^2/NDF : 2674966.2/17

Out: 0.000+/-0.000 χ^2/NDF : 3553665.7/21

All: 0.000+/-0.000 χ^2/NDF : 6309718.8/39

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 43.247 $\pm$ 25.781 χ^2 /NDF: 15.0/15

Left Out: 96.278 $\pm$ 37.107 χ^2 /NDF:1.2/2

Right Out: 60.582 $\pm$ 26.894 χ^2 /NDF: 20.4/18

Left In: 65.247 $\pm$ 41.803 χ^2 /NDF:0.1/1

Left: 82.602 $\pm$ 27.751 χ^2 /NDF: 1.6/4

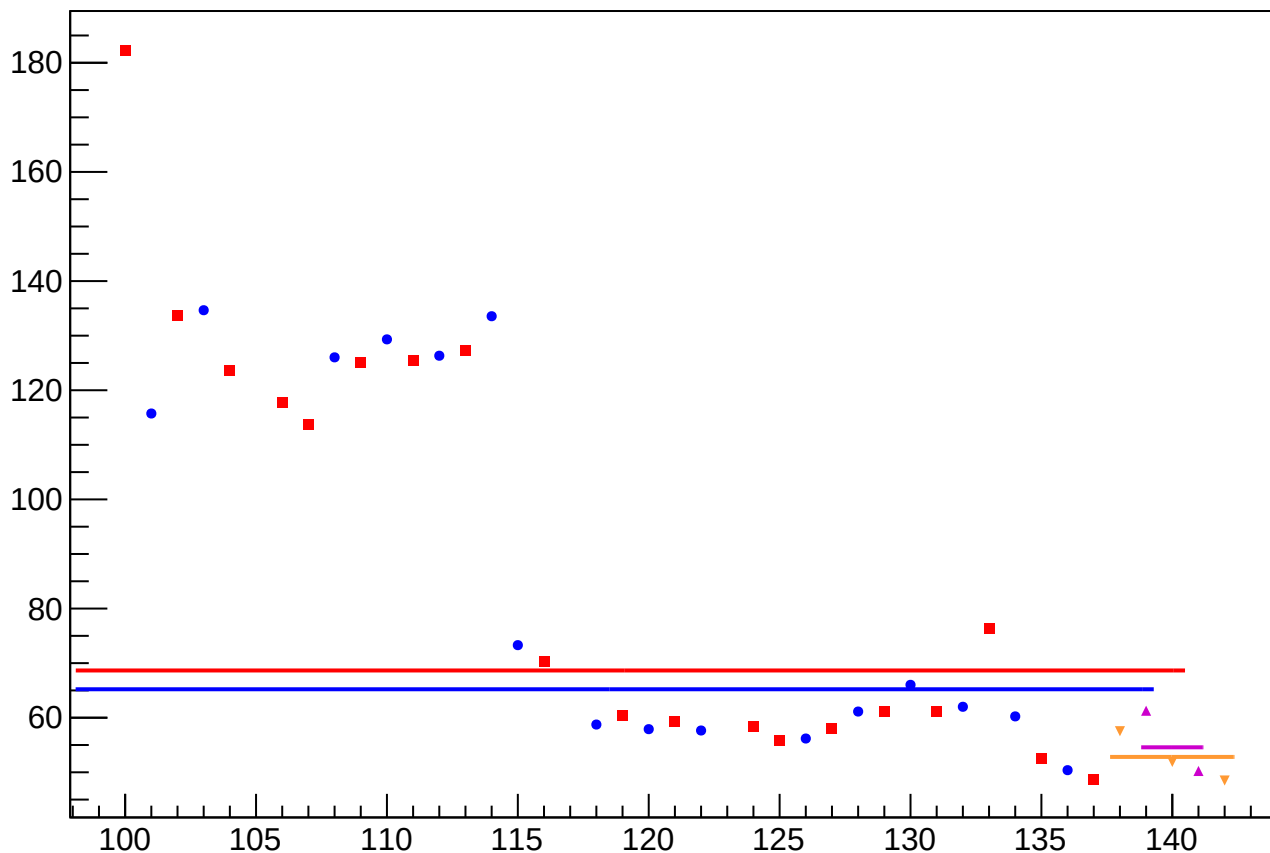
Right: 51.548 $\pm$ 18.611 χ^2 /NDF: 35.6/34

In: 49.309 $\pm$ 21.943 χ^2 /NDF:15.2/17

Out: 72.875 $\pm$ 21.776 χ^2 /NDF:22.3/21

All: 61.182 $\pm$ 15.457 χ^2 /NDF: 38.1/39

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 65.212 $\pm$ 0.018 χ^2 /NDF: 1446504.6/15

Left Out: 52.817 $\pm$ 0.026 χ^2 /NDF: 17715.1/2

Right Out: 68.656 $\pm$ 0.019 χ^2 /NDF: 1640900.1/18

Left In: 54.578 $\pm$ 0.030 χ^2 /NDF: 33257.7/1

Left: 53.593 $\pm$ 0.020 χ^2 /NDF: 52959.3/4

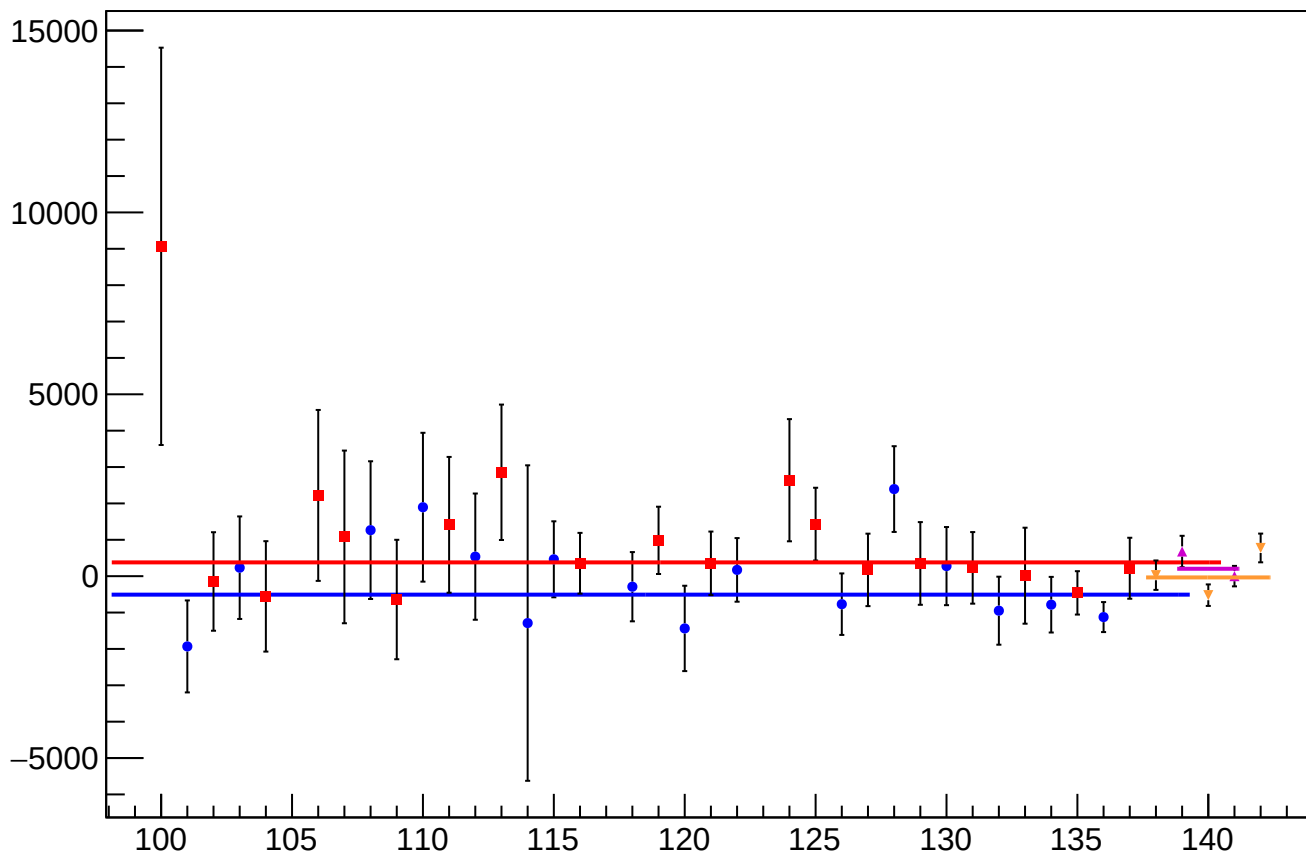
Right: 66.862 $\pm$ 0.013 χ^2 /NDF: 3104495.7/34

In: 62.282 $\pm$ 0.016 χ^2 /NDF: 1573527.3/17

Out: 63.201 $\pm$ 0.015 χ^2 /NDF: 1897537.9/21

All: 62.745 $\pm$ 0.011 χ^2 /NDF: 3472832.7/39

asym_sam_1526_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -507.928 $\pm$ 236.945 χ^2 /NDF: 15.6/15

Left Out: -34.526 $\pm$ 204.356 χ^2 /NDF:6.9/2

Right Out: 378.892 $\pm$ 256.407 χ^2 /NDF: 11.7/18

Left In: 203.481 $\pm$ 235.488 χ^2 /NDF:1.7/1

Left: 67.716 $\pm$ 154.343 χ^2 /NDF: 9.3/4

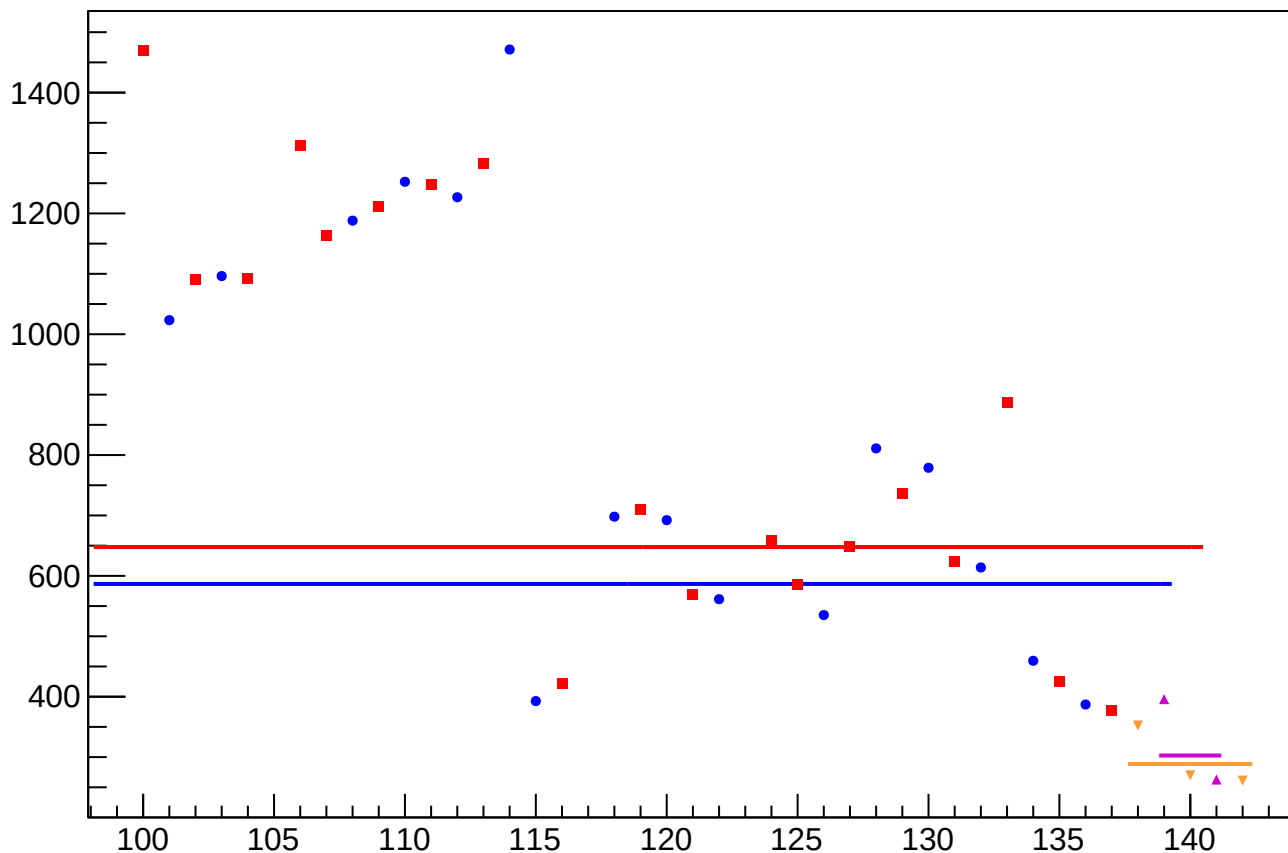
Right: -99.449 $\pm$ 174.019 χ^2 /NDF: 33.8/34

In: -150.029 $\pm$ 167.028 χ^2 /NDF:21.9/17

Out: 126.068 $\pm$ 159.809 χ^2 /NDF:20.3/21

All: -5.885 $\pm$ 115.470 χ^2 /NDF: 43.6/39

asym_sam_1526_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 586.645 $\pm$ 0.168 χ^2 /NDF: 2053133.2/15

Left Out: 288.482 $\pm$ 0.145 χ^2 /NDF: 67233.4/2

Right Out: 647.736 $\pm$ 0.181 χ^2 /NDF: 2105638.0/18

Left In: 302.662 $\pm$ 0.167 χ^2 /NDF: 133675.7/1

Left: 294.573 $\pm$ 0.109 χ^2 /NDF: 205045.5/4

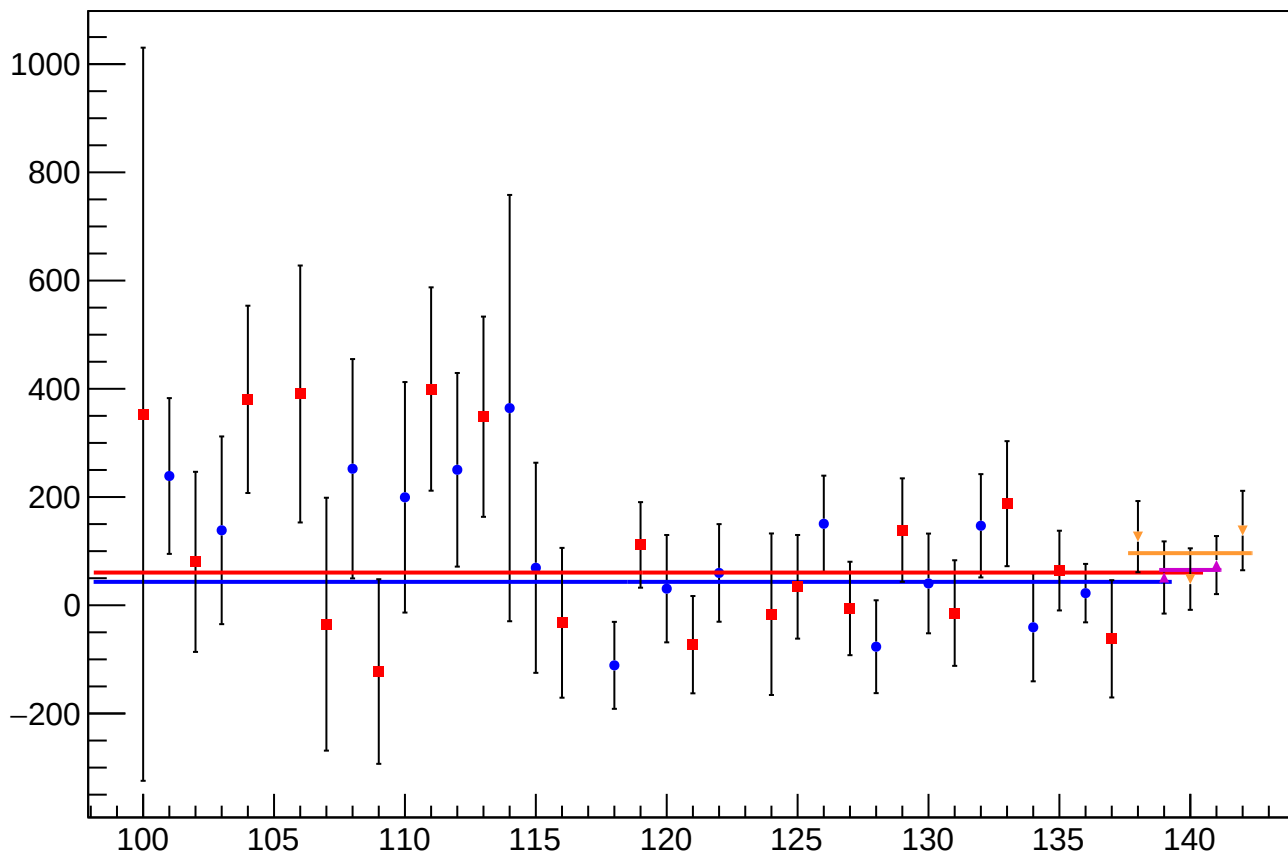
Right: 614.784 $\pm$ 0.123 χ^2 /NDF: 4220010.2/34

In: 443.778 $\pm$ 0.118 χ^2 /NDF: 3632124.1/17

Out: 428.036 $\pm$ 0.113 χ^2 /NDF: 4573918.8/21

All: 435.560 $\pm$ 0.082 χ^2 /NDF: 8215316.7/39

cor_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 43.239 $\pm$ 25.781 χ^2 /NDF: 15.0/15

Left Out: 96.283 $\pm$ 37.107 χ^2 /NDF:1.2/2

Right Out: 60.432 $\pm$ 26.895 χ^2 /NDF: 20.3/18

Left In: 65.256 $\pm$ 41.803 χ^2 /NDF:0.1/1

Left: 82.609 $\pm$ 27.751 χ^2 /NDF: 1.6/4

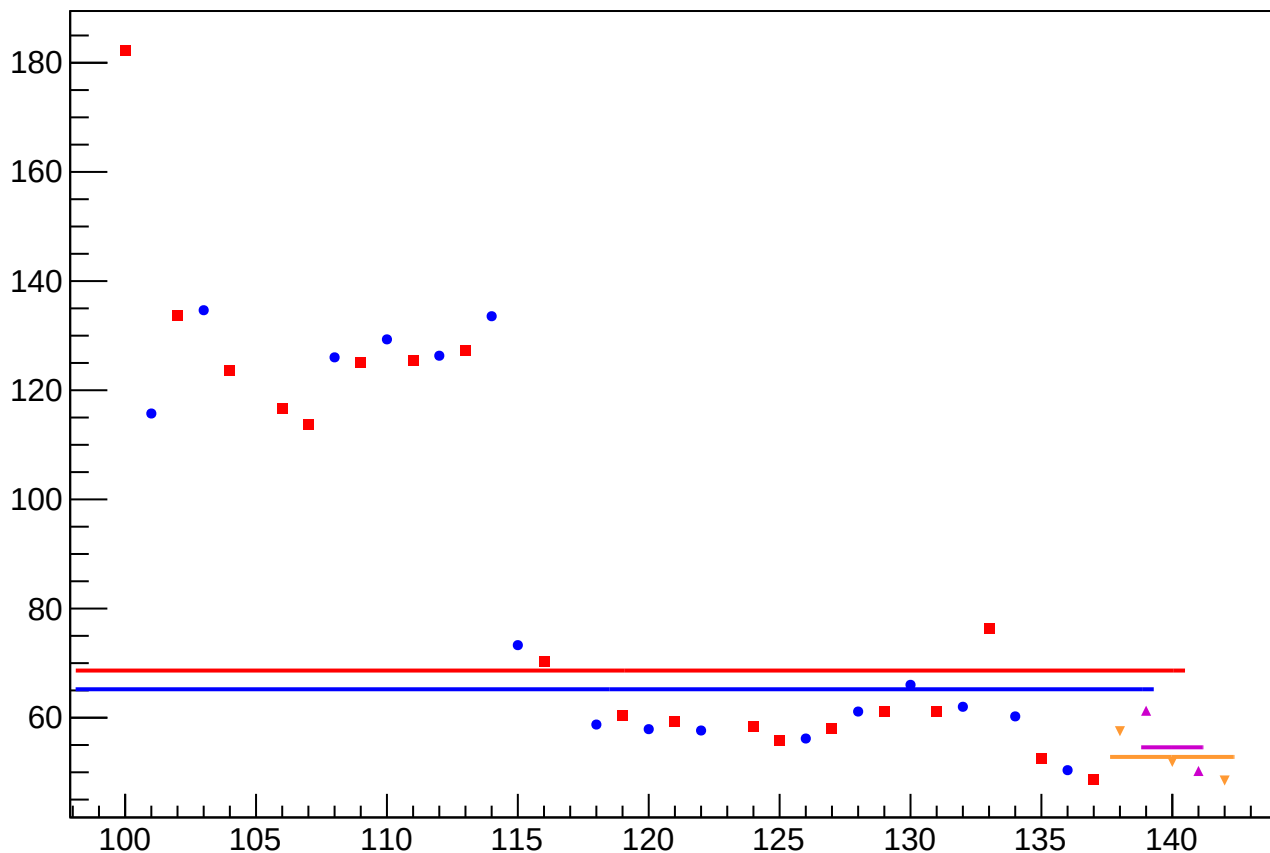
Right: 51.472 $\pm$ 18.611 χ^2 /NDF: 35.5/34

In: 49.306 $\pm$ 21.943 χ^2 /NDF:15.2/17

Out: 72.779 $\pm$ 21.777 χ^2 /NDF:22.2/21

All: 61.132 $\pm$ 15.457 χ^2 /NDF: 38.0/39

cor_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 65.212 $\pm$ 0.018 χ^2 /NDF: 1446506.9/15

Left Out: 52.817 $\pm$ 0.026 χ^2 /NDF: 17715.1/2

Right Out: 68.642 $\pm$ 0.019 χ^2 /NDF: 1637558.1/18

Left In: 54.578 $\pm$ 0.030 χ^2 /NDF: 33257.7/1

Left: 53.593 $\pm$ 0.020 χ^2 /NDF: 52959.3/4

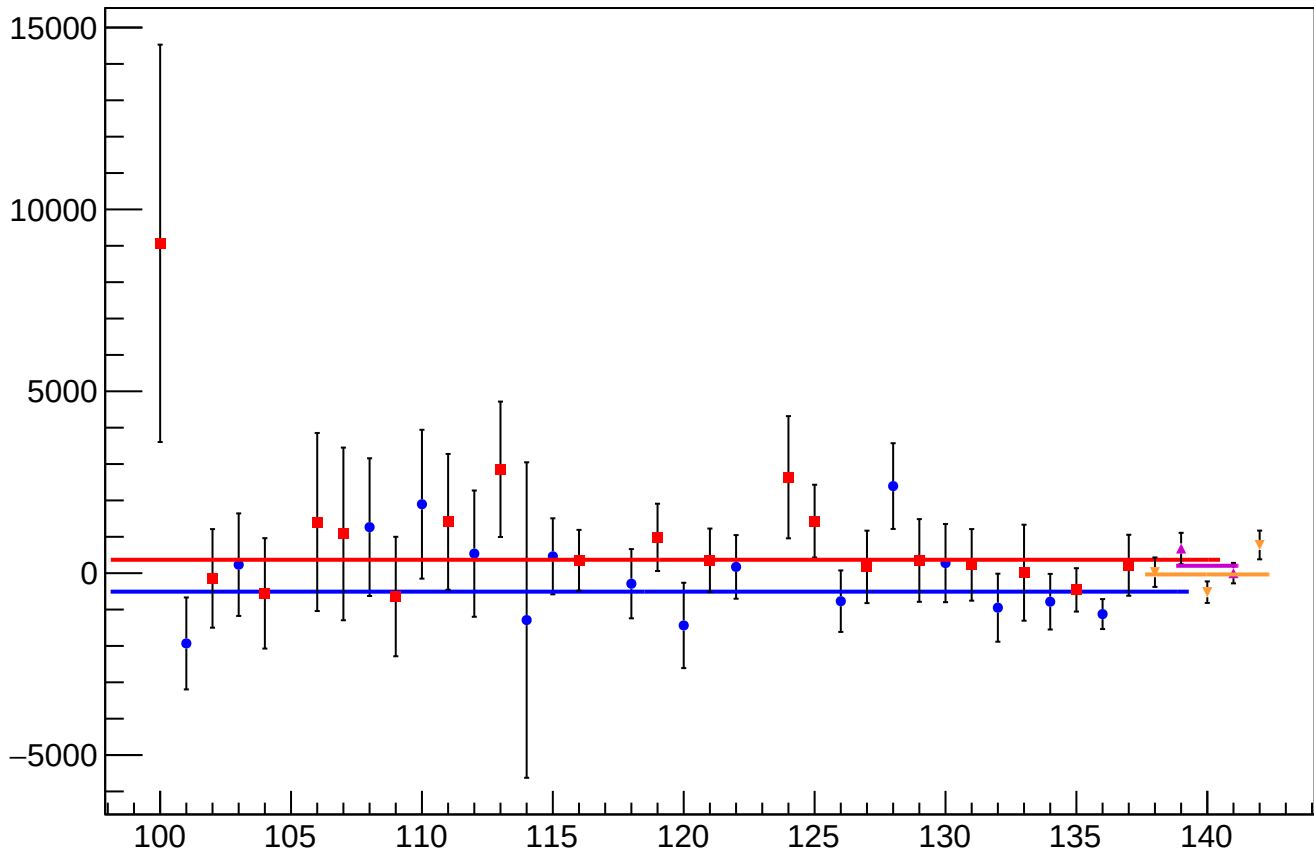
Right: 66.855 $\pm$ 0.013 χ^2 /NDF: 3101012.7/34

In: 62.282 $\pm$ 0.016 χ^2 /NDF: 1573529.6/17

Out: 63.192 $\pm$ 0.015 χ^2 /NDF: 1893756.3/21

All: 62.740 $\pm$ 0.011 χ^2 /NDF: 3469016.4/39

asym_sam_1526_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -507.911 ± 236.945 χ^2/NDF : 15.6/15

Left Out: -34.511 ± 204.355 χ^2/NDF : 6.9/2

Right Out: 368.334 ± 256.534 χ^2/NDF : 11.3/18

Left In: 203.489 ± 235.488 χ^2/NDF : 1.7/1

Left: 67.727 ± 154.343 χ^2/NDF : 9.3/4

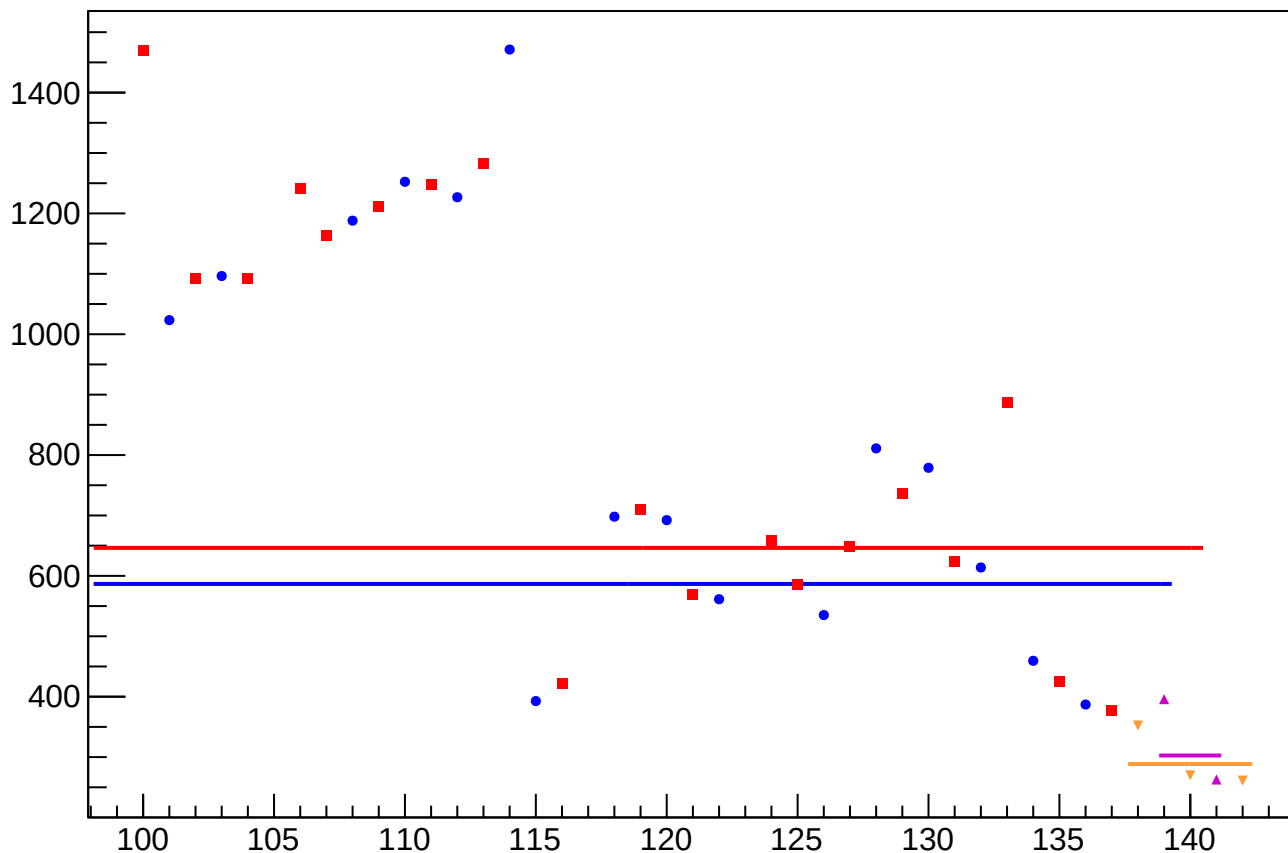
Right: -104.517 ± 174.059 χ^2/NDF : 33.2/34

In: -150.017 ± 167.028 χ^2/NDF : 21.9/17

Out: 121.881 ± 159.839 χ^2/NDF : 19.7/21

All: -8.091 ± 115.481 χ^2/NDF : 43.0/39

asym_sam_1526_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 586.645 $\pm$ 0.168 χ^2 /NDF: 2053169.7/15

Left Out: 288.482 $\pm$ 0.145 χ^2 /NDF: 67233.8/2

Right Out: 646.328 $\pm$ 0.181 χ^2 /NDF: 2063185.3/18

Left In: 302.662 $\pm$ 0.167 χ^2 /NDF: 133674.8/1

Left: 294.573 $\pm$ 0.109 χ^2 /NDF: 205045.4/4

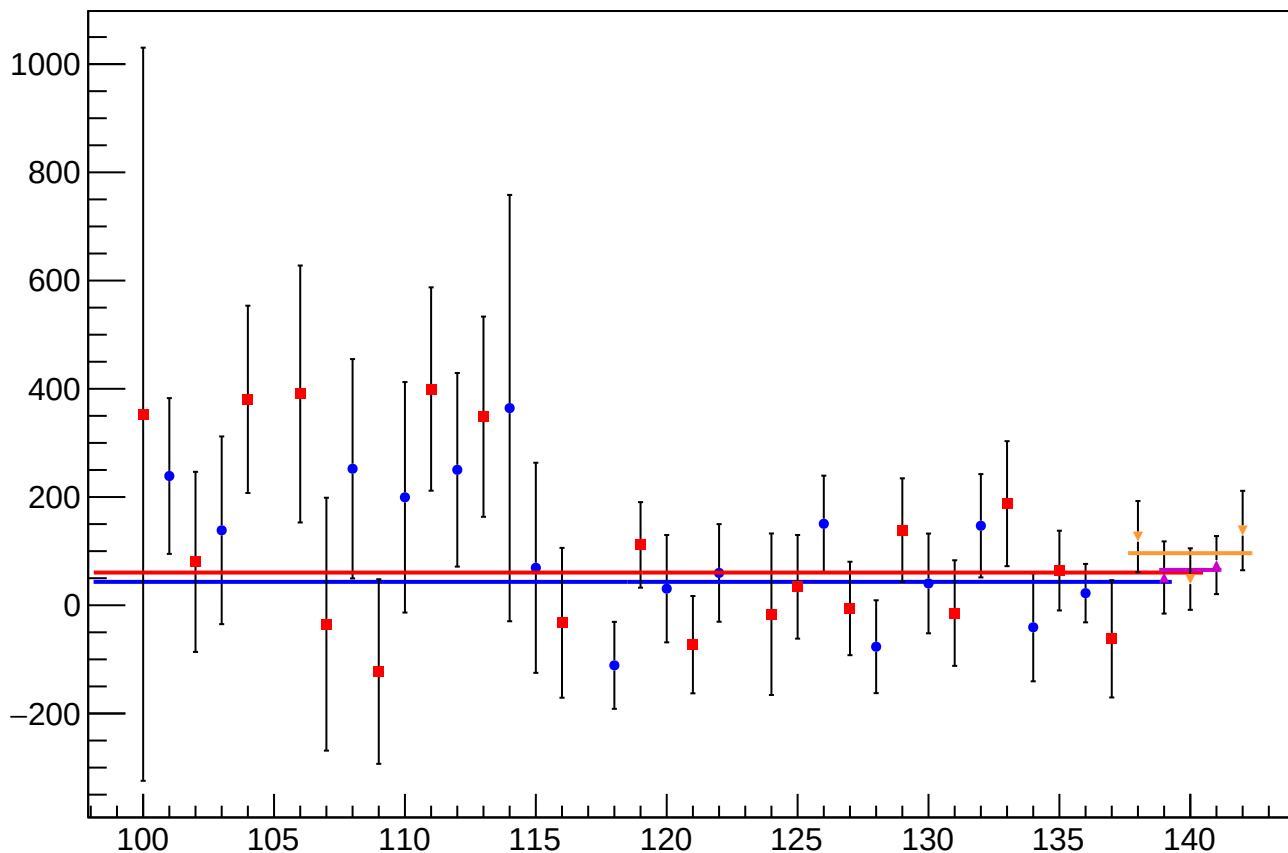
Right: 614.121 $\pm$ 0.123 χ^2 /NDF: 4174772.7/34

In: 443.777 $\pm$ 0.118 χ^2 /NDF: 3632152.4/17

Out: 427.405 $\pm$ 0.113 χ^2 /NDF: 4511248.7/21

All: 435.231 $\pm$ 0.082 χ^2 /NDF: 8153432.0/39

eigen_cor_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 43.239 $\pm$ 25.781 χ^2 /NDF: 15.0/15

Left Out: 96.283 $\pm$ 37.107 χ^2 /NDF:1.2/2

Right Out: 60.432 $\pm$ 26.895 χ^2 /NDF: 20.3/18

Left In: 65.256 $\pm$ 41.803 χ^2 /NDF:0.1/1

Left: 82.609 $\pm$ 27.751 χ^2 /NDF: 1.6/4

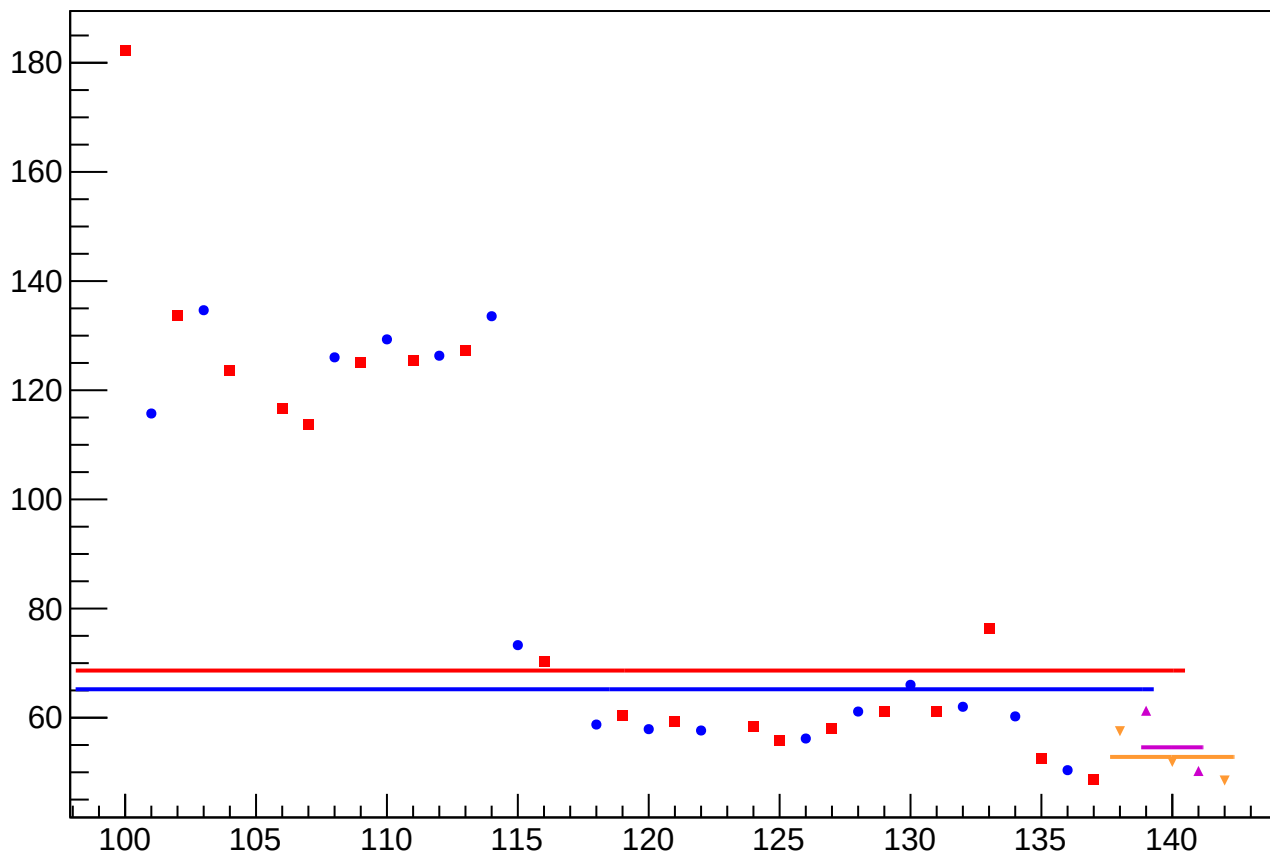
Right: 51.472 $\pm$ 18.611 χ^2 /NDF: 35.5/34

In: 49.306 $\pm$ 21.943 χ^2 /NDF:15.2/17

Out: 72.779 $\pm$ 21.777 χ^2 /NDF:22.2/21

All: 61.132 $\pm$ 15.457 χ^2 /NDF: 38.0/39

eigen_cor_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 65.212 $\pm$ 0.018 χ^2 /NDF: 1446506.9/15

Left Out: 52.817 $\pm$ 0.026 χ^2 /NDF: 17715.1/2

Right Out: 68.642 $\pm$ 0.019 χ^2 /NDF: 1637558.1/18

Left In: 54.578 $\pm$ 0.030 χ^2 /NDF: 33257.7/1

Left: 53.593 $\pm$ 0.020 χ^2 /NDF: 52959.3/4

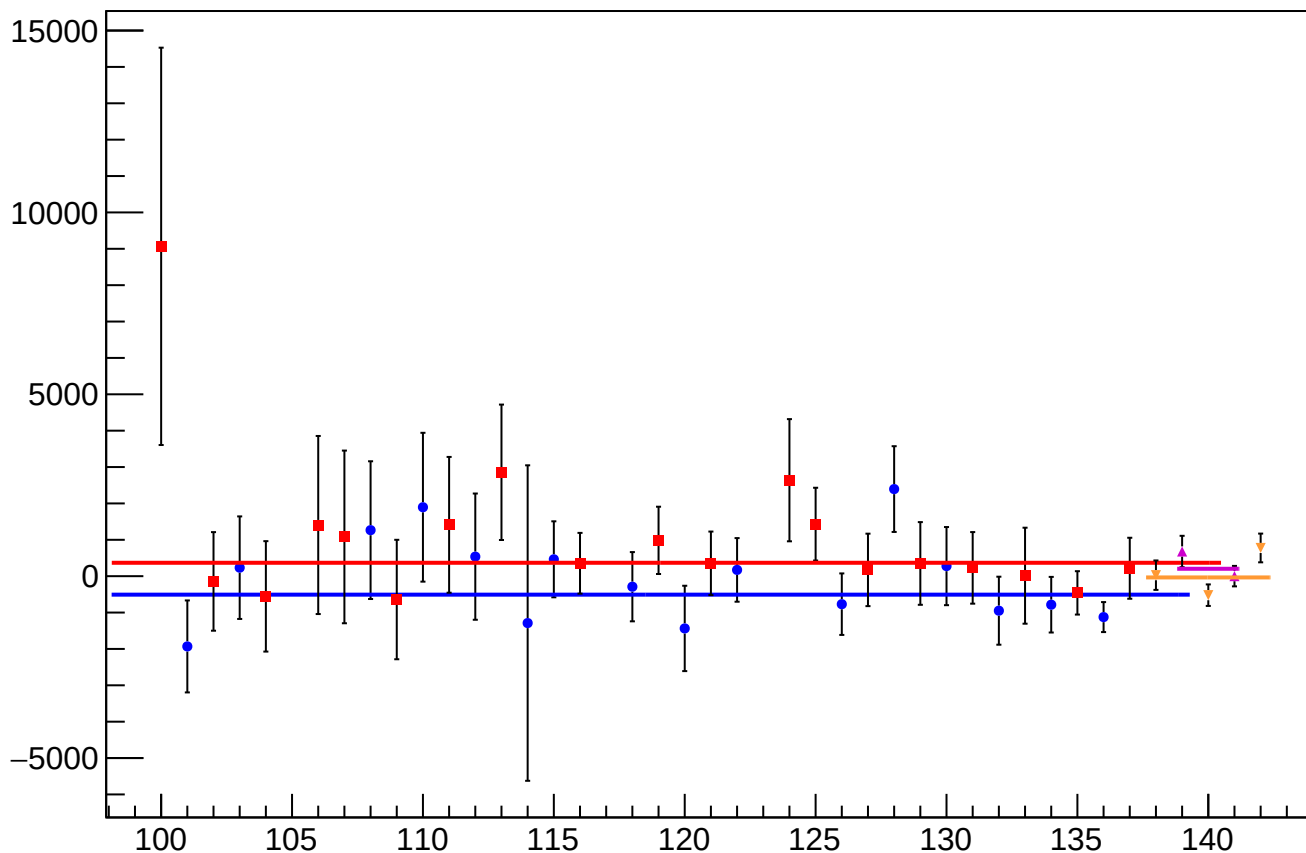
Right: 66.855 $\pm$ 0.013 χ^2 /NDF: 3101012.7/34

In: 62.282 $\pm$ 0.016 χ^2 /NDF: 1573529.6/17

Out: 63.192 $\pm$ 0.015 χ^2 /NDF: 1893756.3/21

All: 62.740 $\pm$ 0.011 χ^2 /NDF: 3469016.4/39

asym_sam_1526_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -507.911 $\pm$ 236.945 χ^2 /NDF: 15.6/15

Left Out: -34.511 $\pm$ 204.355 χ^2 /NDF:6.9/2

Right Out: 368.334 $\pm$ 256.534 χ^2 /NDF: 11.3/18

Left In: 203.489 $\pm$ 235.488 χ^2 /NDF:1.7/1

Left: 67.727 $\pm$ 154.343 χ^2 /NDF: 9.3/4

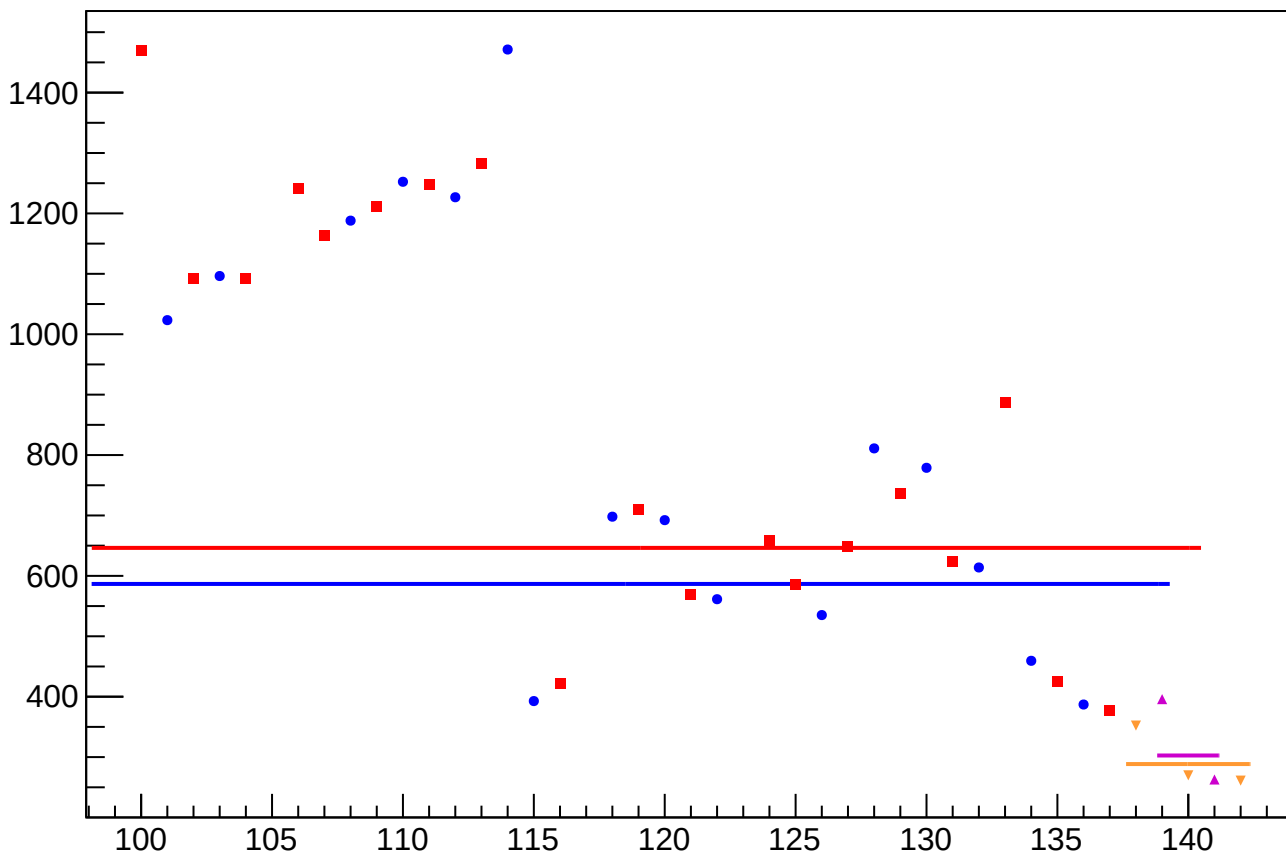
Right: -104.517 $\pm$ 174.059 χ^2 /NDF: 33.2/34

In: -150.017 $\pm$ 167.028 χ^2 /NDF:21.9/17

Out: 121.881 $\pm$ 159.839 χ^2 /NDF:19.7/21

All: -8.091 $\pm$ 115.481 χ^2 /NDF: 43.0/39

asym_sam_1526_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 586.645 $\pm$ 0.168 χ^2 /NDF: 2053169.7/15

Left Out: 288.482 $\pm$ 0.145 χ^2 /NDF: 67233.8/2

Right Out: 646.328 $\pm$ 0.181 χ^2 /NDF: 2063185.3/18

Left In: 302.662 $\pm$ 0.167 χ^2 /NDF: 133674.8/1

Left: 294.573 $\pm$ 0.109 χ^2 /NDF: 205045.4/4

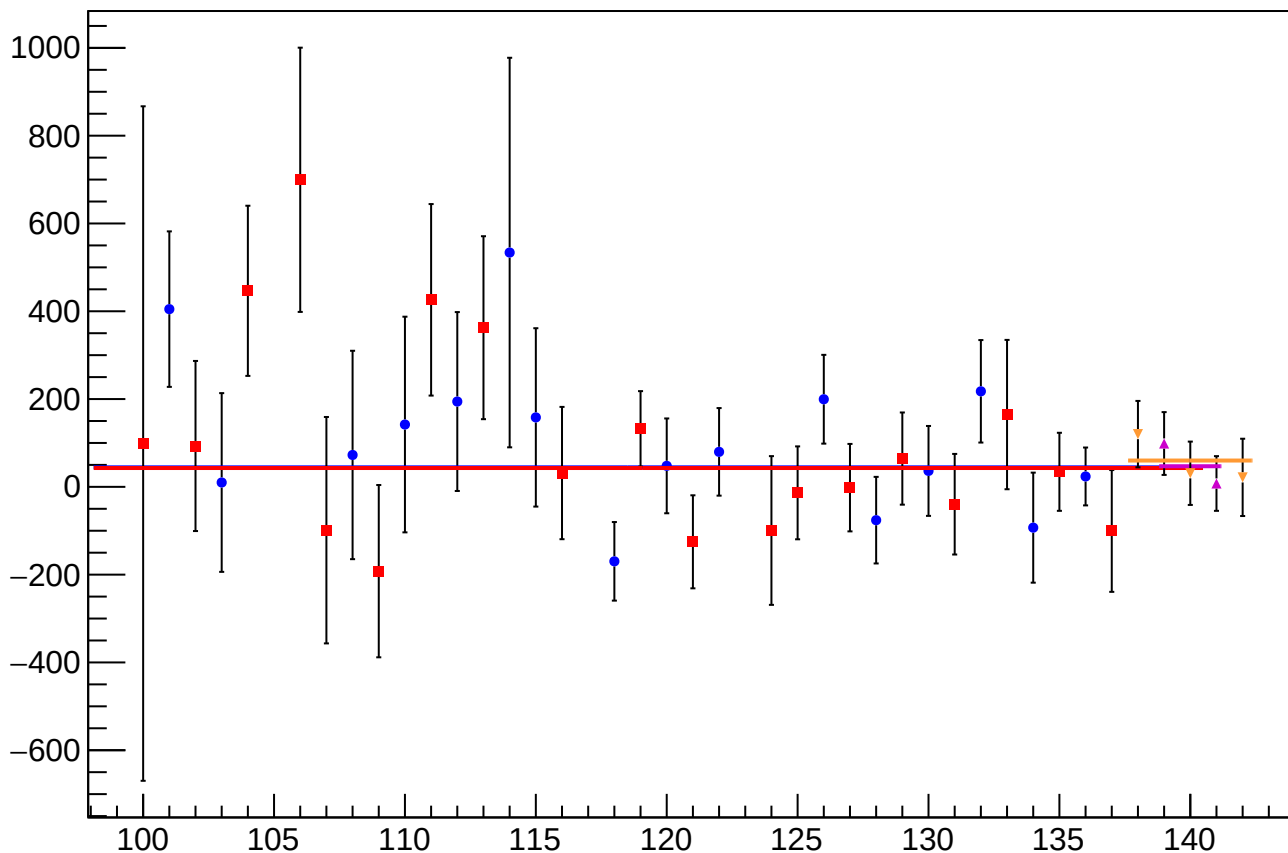
Right: 614.121 $\pm$ 0.123 χ^2 /NDF: 4174772.7/34

In: 443.777 $\pm$ 0.118 χ^2 /NDF: 3632152.4/17

Out: 427.405 $\pm$ 0.113 χ^2 /NDF: 4511248.7/21

All: 435.231 $\pm$ 0.082 χ^2 /NDF: 8153432.0/39

dit_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 44.387 $\pm$ 29.909 χ^2 /NDF: 19.6/15

Left Out: 59.948 $\pm$ 44.900 χ^2 /NDF:1.0/2

Right Out: 42.901 $\pm$ 31.248 χ^2 /NDF: 23.3/18

Left In: 46.943 $\pm$ 46.978 χ^2 /NDF:0.9/1

Left: 53.739 $\pm$ 32.459 χ^2 /NDF: 1.9/4

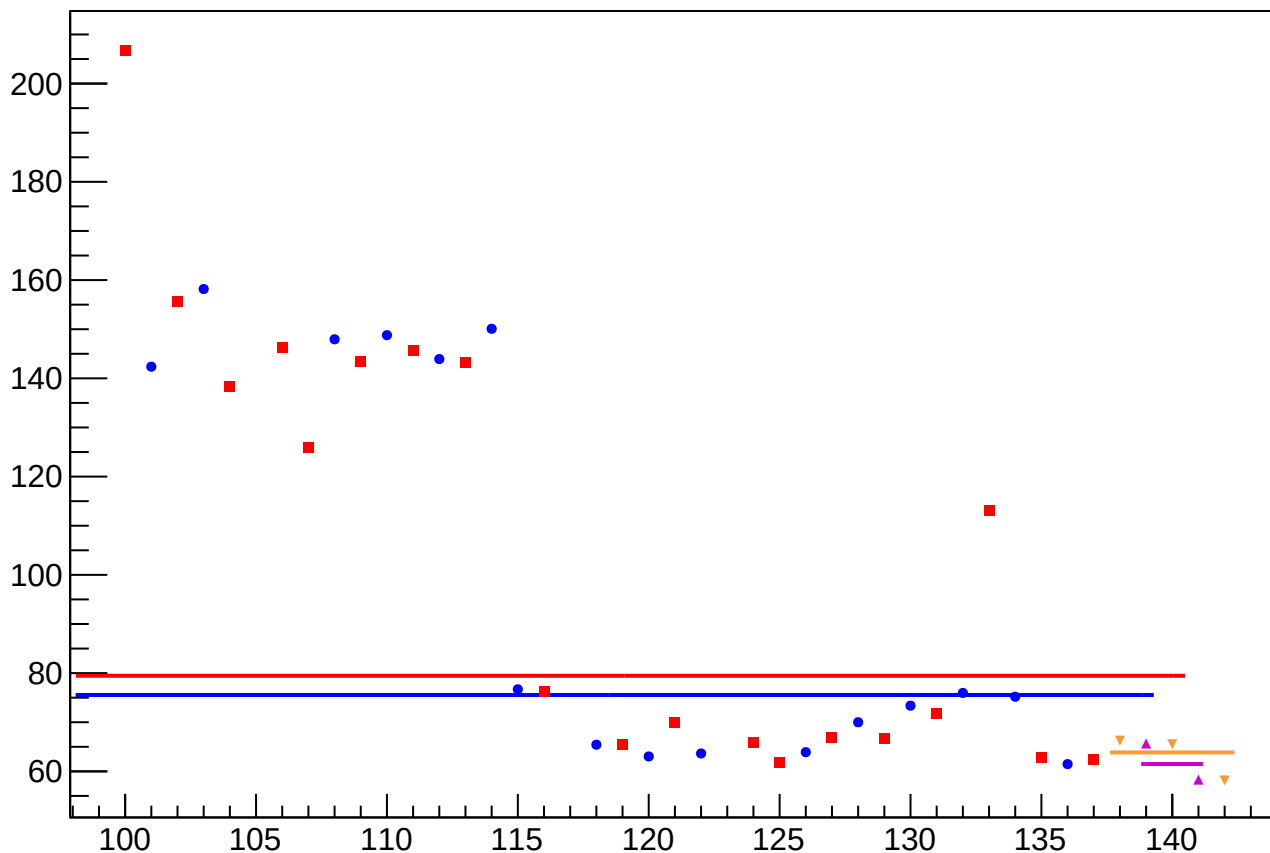
Right: 43.677 $\pm$ 21.607 χ^2 /NDF: 42.9/34

In: 45.124 $\pm$ 25.229 χ^2 /NDF:20.5/17

Out: 48.463 $\pm$ 25.648 χ^2 /NDF:24.4/21

All: 46.766 $\pm$ 17.986 χ^2 /NDF: 44.9/39

dit_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 75.544+/-0.021 χ^2/NDF : 1465550.9/15

Left Out: 63.855+/-0.032 χ^2/NDF : 11474.3/2

Right Out: 79.465+/-0.022 χ^2/NDF : 1683634.3/18

Left In: 61.493+/-0.033 χ^2/NDF : 12009.7/1

Left: 62.727+/-0.023 χ^2/NDF : 26124.5/4

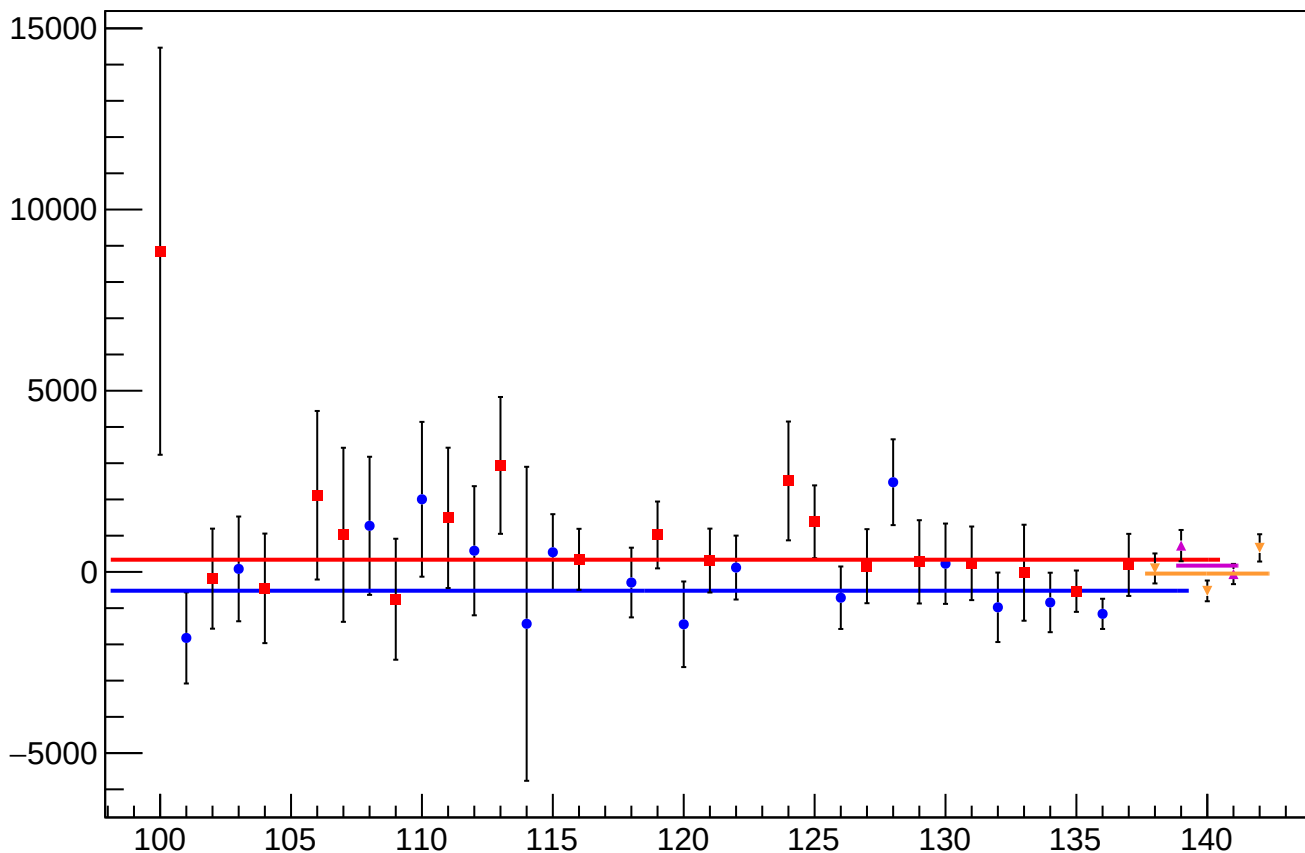
Right: 77.419+/-0.015 χ^2/NDF : 3165620.3/34

In: 71.492+/-0.018 χ^2/NDF : 1604874.9/17

Out: 74.372+/-0.018 χ^2/NDF : 1857984.4/21

All: 72.908+/-0.013 χ^2/NDF : 3475673.3/39

asym_sam_1526_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -519.250+/-241.317 χ^2/NDF : 15.8/15

Left Out: -46.141+/-199.629 χ^2/NDF : 6.4/2

Right Out: 336.731+/-256.618 χ^2/NDF : 11.9/18

Left In: 173.451+/-234.242 χ^2/NDF : 2.3/1

Left: 46.248+/-151.938 χ^2/NDF : 9.3/4

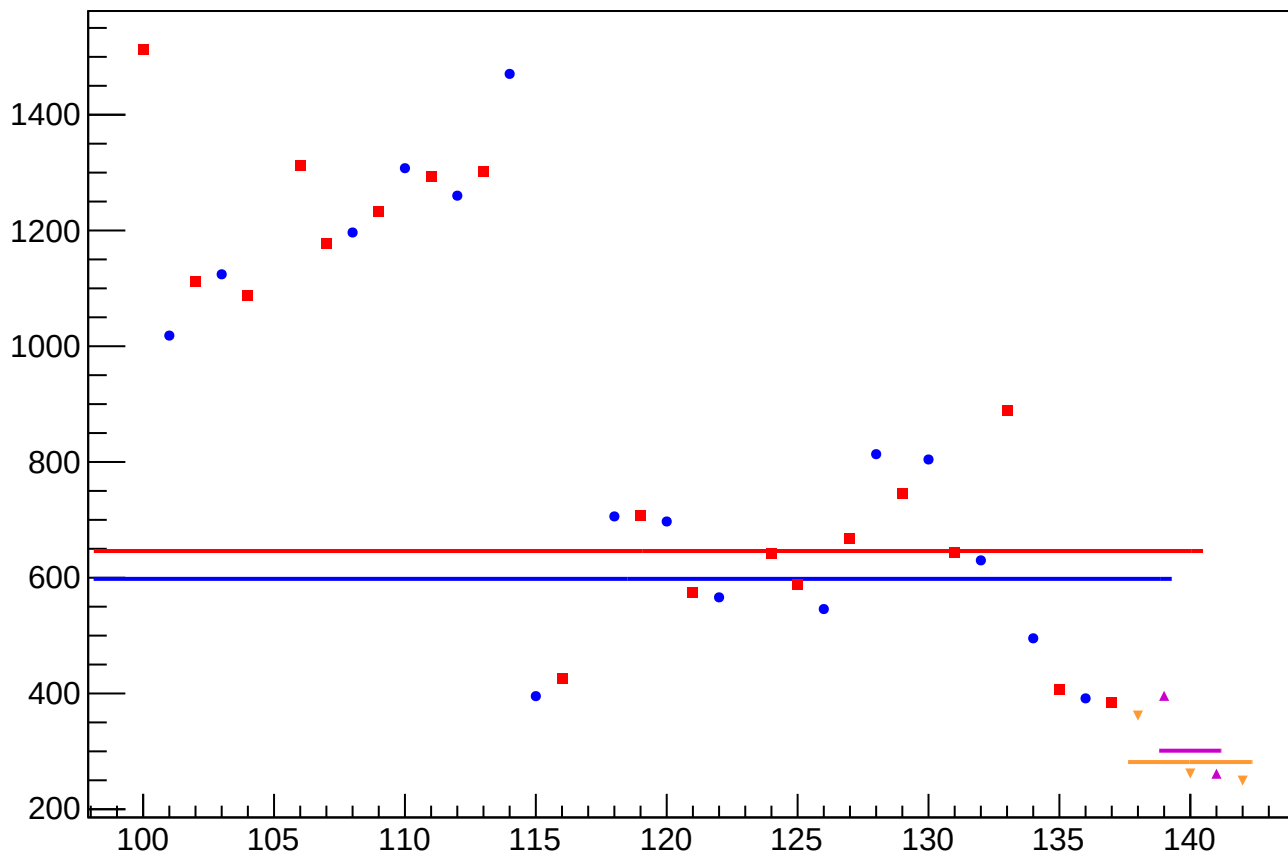
Right: -117.538+/-175.797 χ^2/NDF : 33.6/34

In: -162.596+/-168.079 χ^2/NDF : 22.4/17

Out: 98.206+/-157.567 χ^2/NDF : 19.8/21

All: -23.784+/-114.953 χ^2/NDF : 43.4/39

asym_sam_1526_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 598.044+/-0.171 χ^2/NDF : 2047825.1/15

Left Out: 281.525+/-0.141 χ^2/NDF :99394.5/2

Right Out: 646.190+/-0.181 χ^2/NDF : 2205437.4/18

Left In: 301.148+/-0.166 χ^2/NDF :137337.1/1

Left: 289.781+/-0.107 χ^2/NDF : 244861.9/4

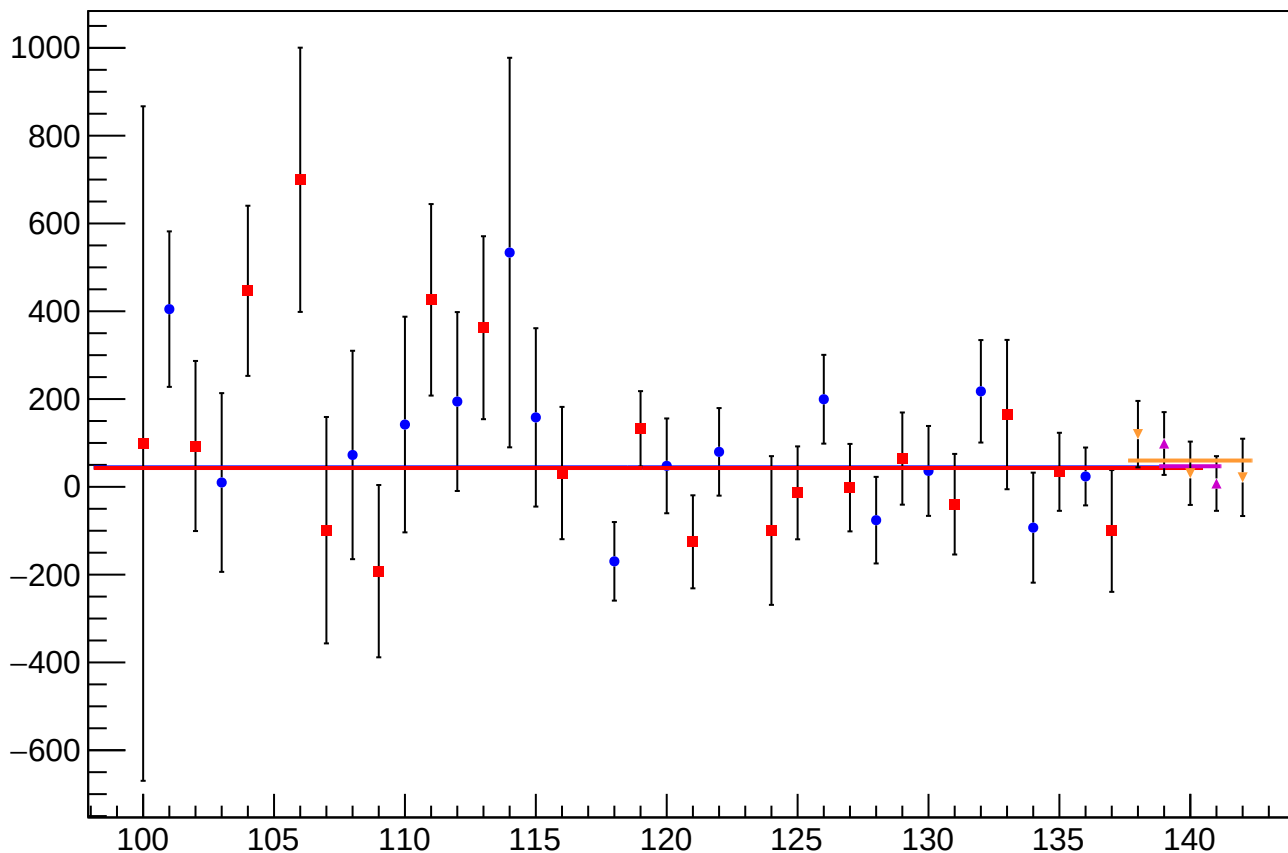
Right: 620.639+/-0.124 χ^2/NDF : 4290624.3/34

In: 445.180+/-0.119 χ^2/NDF :3743876.7/17

Out: 419.008+/-0.111 χ^2/NDF :4820917.5/21

All: 431.250+/-0.081 χ^2/NDF : 8590604.3/39

eigen_dit_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 44.389 $\pm$ 29.908 χ^2 /NDF: 19.6/15

Left Out: 59.946 $\pm$ 44.900 χ^2 /NDF:1.0/2

Right Out: 42.900 $\pm$ 31.248 χ^2 /NDF: 23.3/18

Left In: 46.943 $\pm$ 46.978 χ^2 /NDF:0.9/1

Left: 53.738 $\pm$ 32.459 χ^2 /NDF: 1.9/4

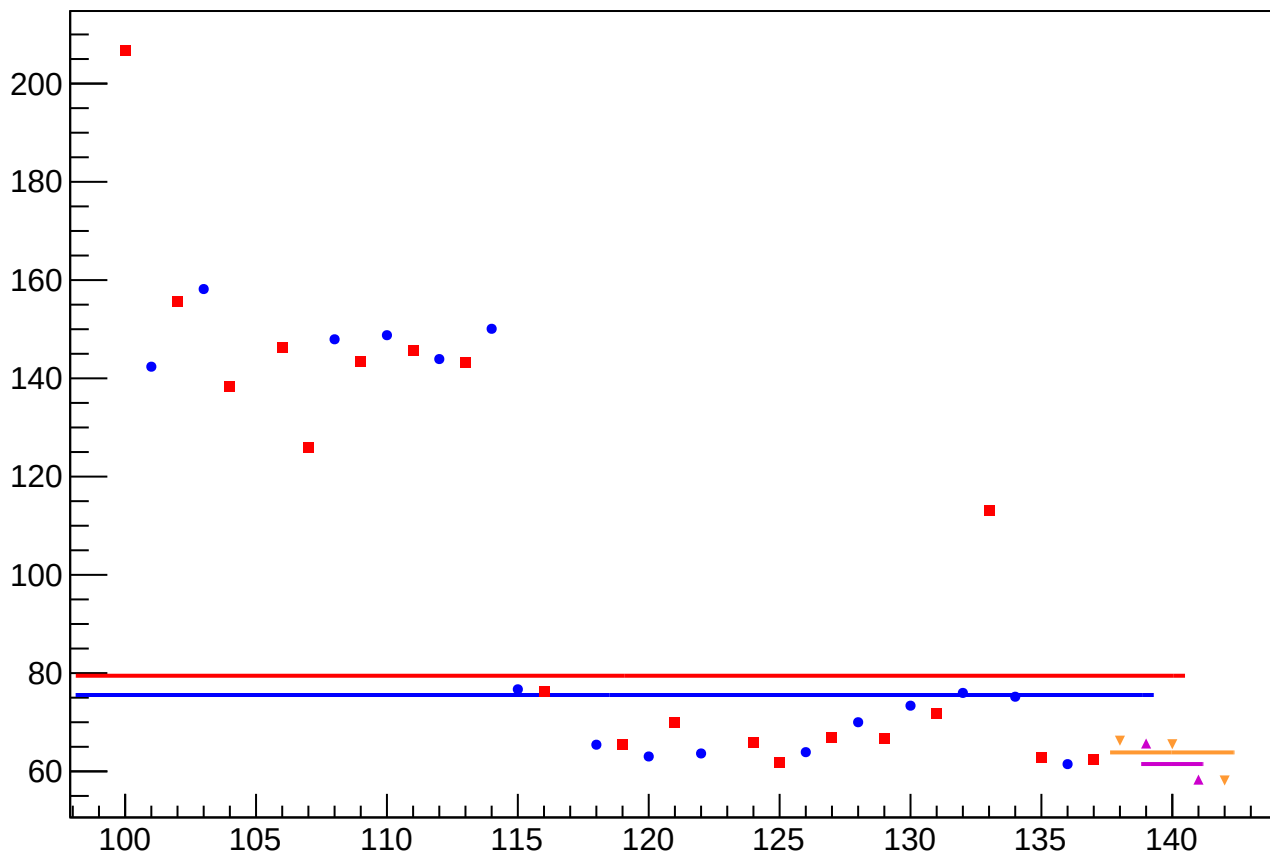
Right: 43.677 $\pm$ 21.607 χ^2 /NDF: 42.9/34

In: 45.125 $\pm$ 25.229 χ^2 /NDF:20.5/17

Out: 48.462 $\pm$ 25.648 χ^2 /NDF:24.4/21

All: 46.766 $\pm$ 17.986 χ^2 /NDF: 44.9/39

eigen_dit_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 75.544+/-0.021 χ^2/NDF : 1465535.8/15

Left Out: 63.855+/-0.032 χ^2/NDF :11474.4/2

Right Out: 79.465+/-0.022 χ^2/NDF : 1683627.3/18

Left In: 61.494+/-0.033 χ^2/NDF :12009.8/1

Left: 62.727+/-0.023 χ^2/NDF : 26124.3/4

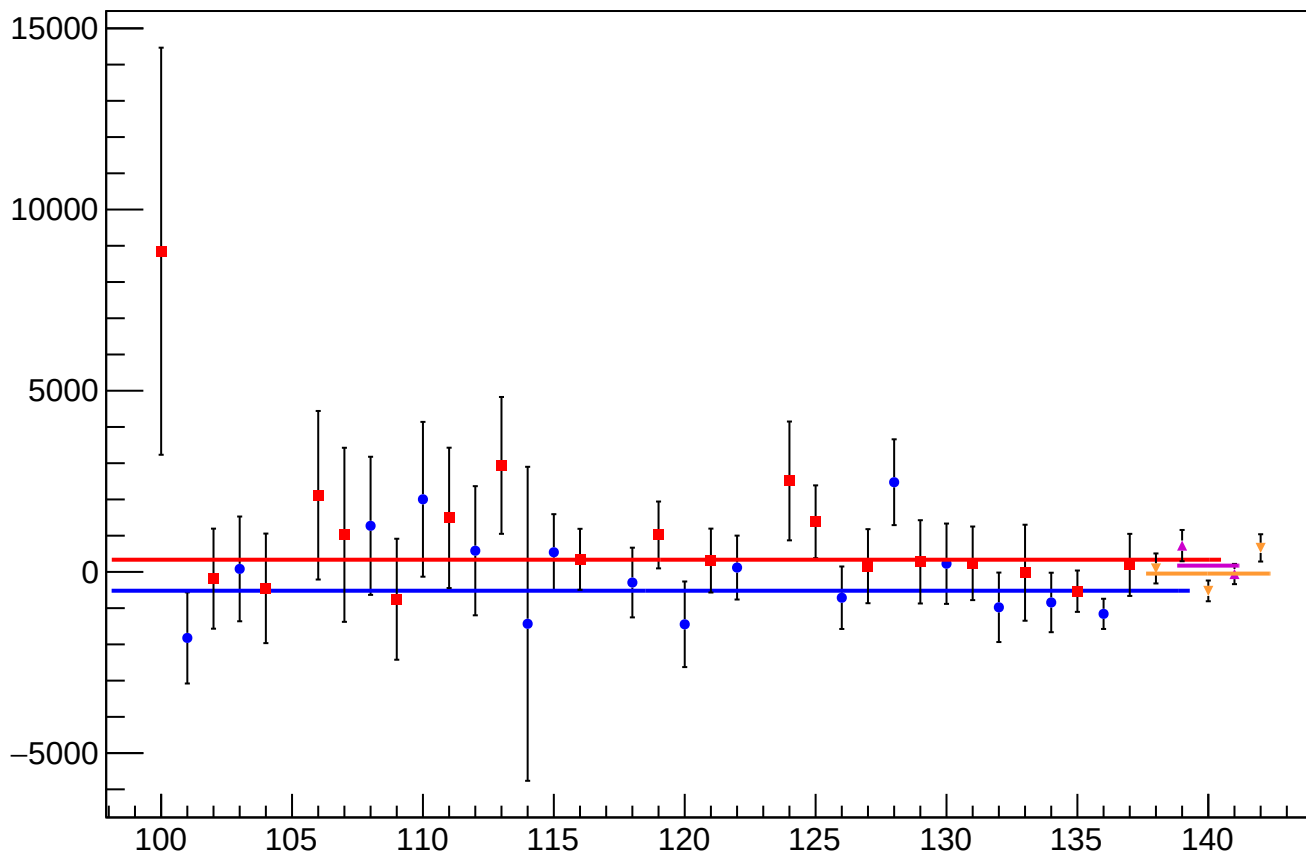
Right: 77.419+/-0.015 χ^2/NDF : 3165598.5/34

In: 71.492+/-0.018 χ^2/NDF :1604851.3/17

Out: 74.371+/-0.018 χ^2/NDF :1857973.0/21

All: 72.908+/-0.013 χ^2/NDF : 3475637.9/39

asym_sam_1526_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -519.247 $\pm$ 241.316 χ^2 /NDF: 15.8/15

Left Out: -46.143 $\pm$ 199.629 χ^2 /NDF:6.4/2

Right Out: 336.731 $\pm$ 256.617 χ^2 /NDF: 11.9/18

Left In: 173.453 $\pm$ 234.241 χ^2 /NDF:2.3/1

Left: 46.247 $\pm$ 151.937 χ^2 /NDF: 9.3/4

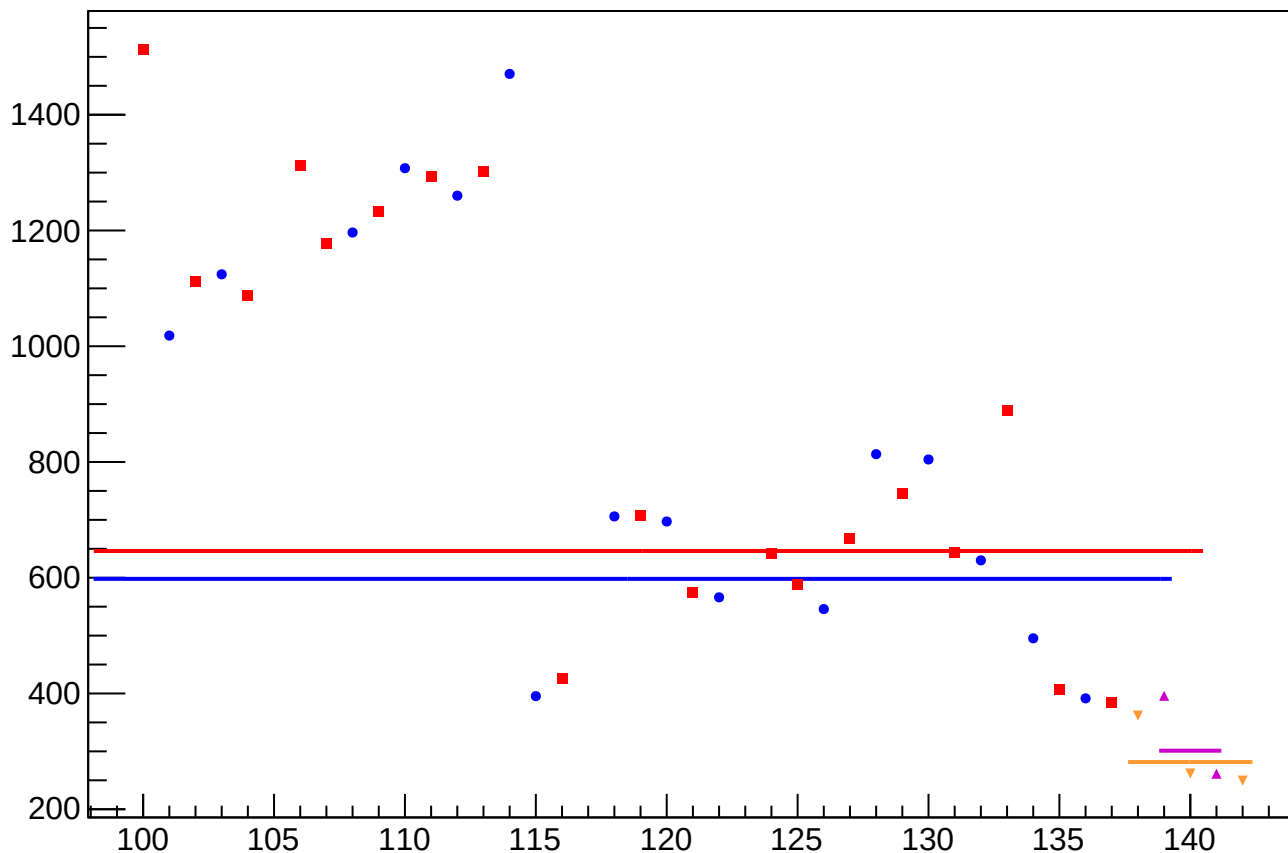
Right: -117.537 $\pm$ 175.797 χ^2 /NDF: 33.6/34

In: -162.594 $\pm$ 168.079 χ^2 /NDF:22.4/17

Out: 98.205 $\pm$ 157.566 χ^2 /NDF:19.8/21

All: -23.784 $\pm$ 114.953 χ^2 /NDF: 43.4/39

asym_sam_1526_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 598.044 $\pm$ 0.171 χ^2 /NDF: 2047806.5/15

Left Out: 281.525 $\pm$ 0.141 χ^2 /NDF: 99390.9/2

Right Out: 646.190 $\pm$ 0.181 χ^2 /NDF: 2205421.4/18

Left In: 301.147 $\pm$ 0.166 χ^2 /NDF: 137334.0/1

Left: 289.780 $\pm$ 0.107 χ^2 /NDF: 244854.9/4

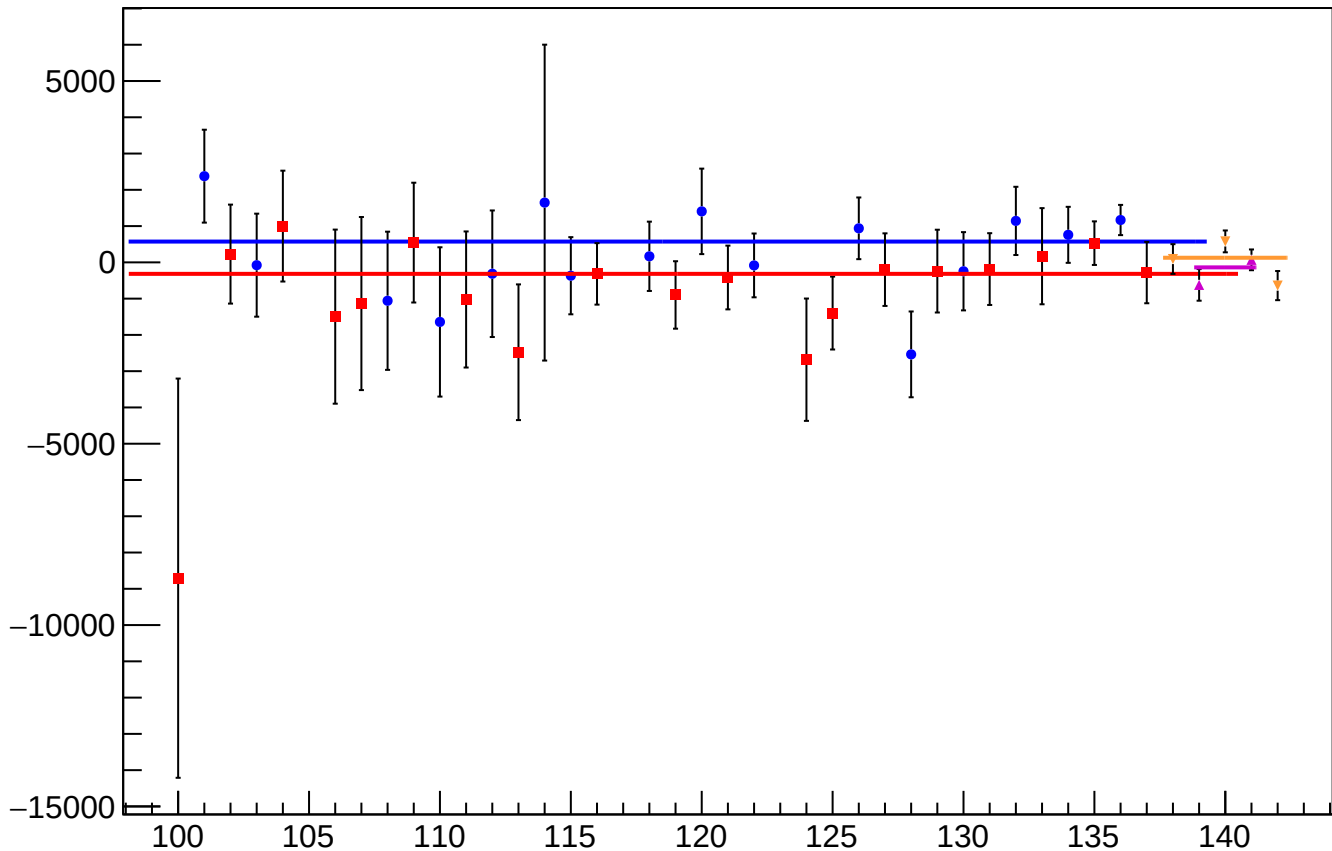
Right: 620.638 $\pm$ 0.124 χ^2 /NDF: 4290589.9/34

In: 445.179 $\pm$ 0.119 χ^2 /NDF: 3743861.0/17

Out: 419.008 $\pm$ 0.111 χ^2 /NDF: 4820897.3/21

All: 431.250 $\pm$ 0.081 χ^2 /NDF: 8590567.4/39

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 573.374 $\pm$ 238.921 χ^2 /NDF: 16.6/15

Left Out: 127.095 $\pm$ 207.810 χ^2 /NDF:5.9/2

Right Out: -316.830 $\pm$ 258.239 χ^2 /NDF: 11.0/18

Left In: -138.389 $\pm$ 239.340 χ^2 /NDF:1.8/1

Left: 12.981 $\pm$ 156.916 χ^2 /NDF: 8.4/4

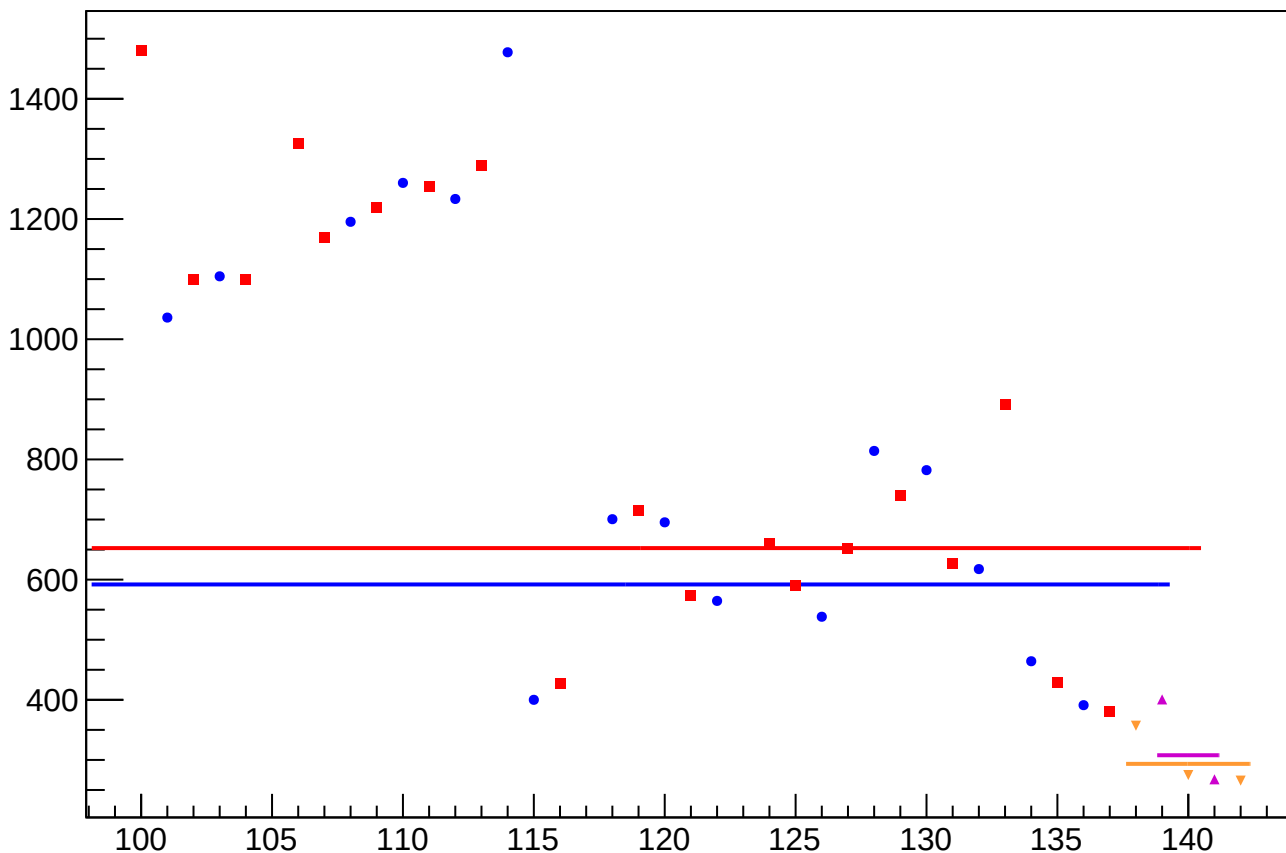
Right: 162.809 $\pm$ 175.375 χ^2 /NDF: 34.0/34

In: 218.115 $\pm$ 169.091 χ^2 /NDF:22.7/17

Out: -47.388 $\pm$ 161.899 χ^2 /NDF:18.7/21

All: 79.597 $\pm$ 116.940 χ^2 /NDF: 42.7/39

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 591.974+/-0.169 χ^2/NDF : 2035700.6/15

Left Out: 293.461+/-0.147 χ^2/NDF : 65239.0/2

Right Out: 652.459+/-0.183 χ^2/NDF : 2089983.3/18

Left In: 307.808+/-0.169 χ^2/NDF : 129881.2/1

Left: 299.628+/-0.111 χ^2/NDF : 199217.7/4

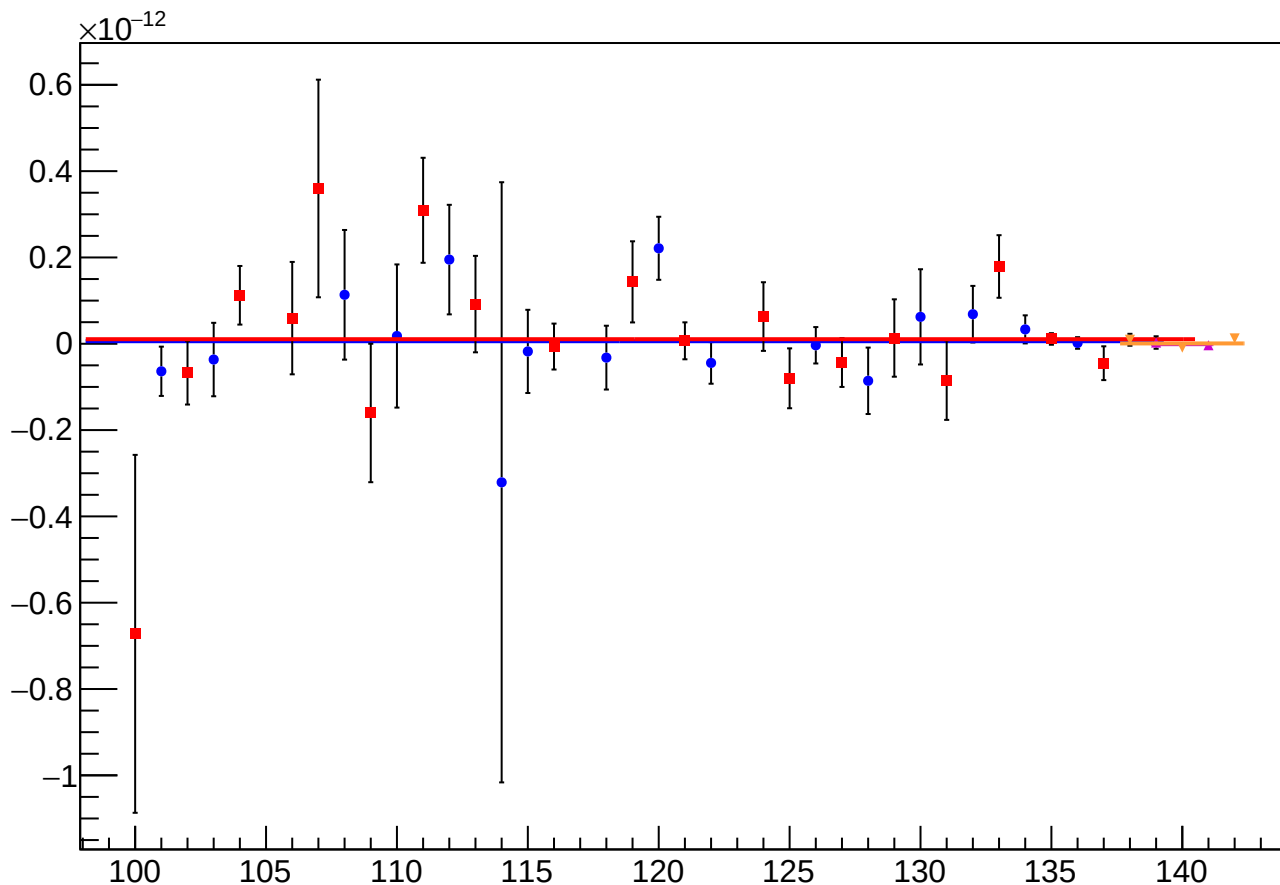
Right: 619.870+/-0.124 χ^2/NDF : 4184800.0/34

In: 450.140+/-0.120 χ^2/NDF : 3577707.5/17

Out: 434.564+/-0.114 χ^2/NDF : 4501212.1/21

All: 442.014+/-0.083 χ^2/NDF : 8087773.1/39

asym_sam_1526_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3.0/2

Right Out: 0.000+/-0.000 χ^2/NDF : 29.5/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.1/1

Left: 0.000+/-0.000 χ^2/NDF : 3.2/4

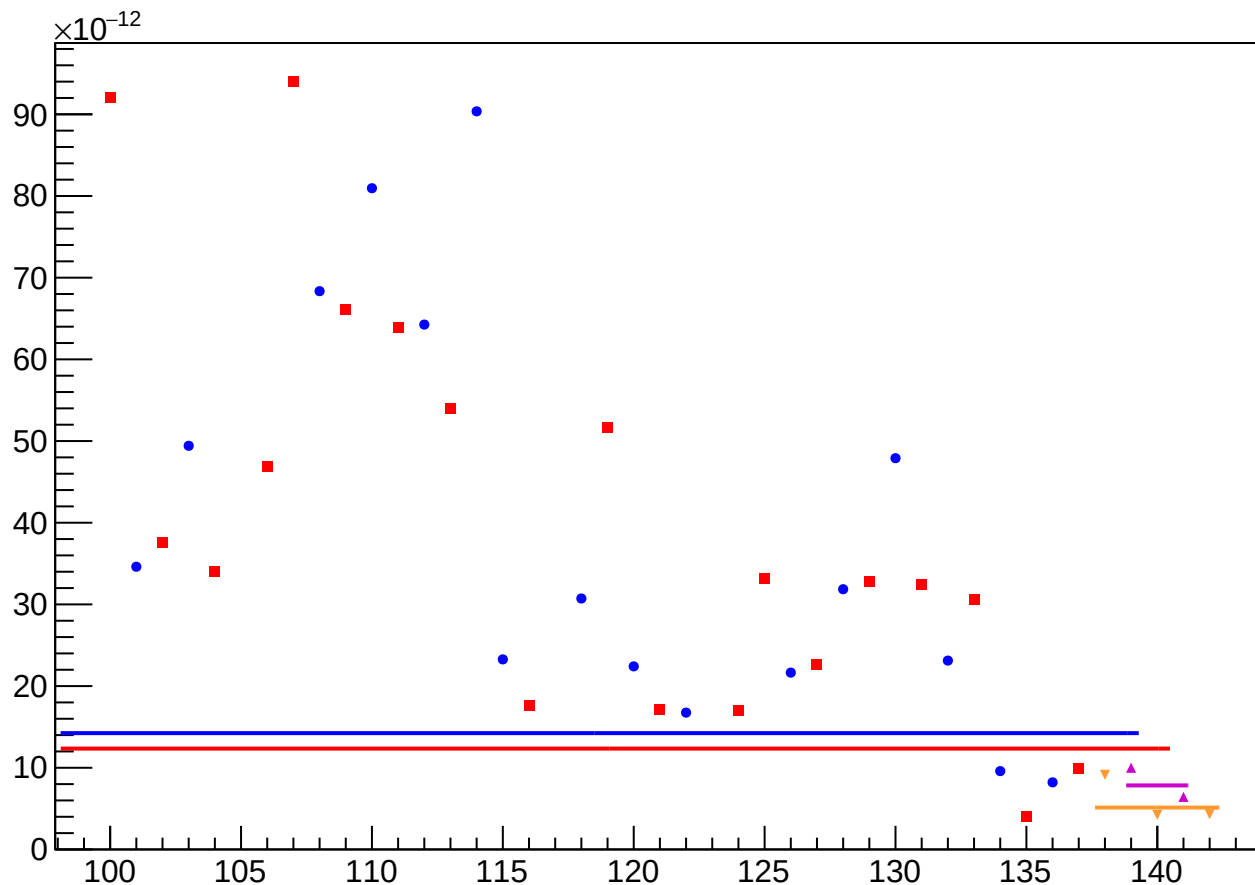
Right: 0.000+/-0.000 χ^2/NDF : 47.8/34

In: 0.000+/-0.000 χ^2/NDF : 18.6/17

Out: 0.000+/-0.000 χ^2/NDF : 33.1/21

All: 0.000+/-0.000 χ^2/NDF : 51.8/39

asym_sam_1526_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2493527.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :204718.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3472954.4/18

Left In: 0.000+/-0.000 χ^2/NDF :73509.5/1

Left: 0.000+/-0.000 χ^2/NDF : 404135.9/4

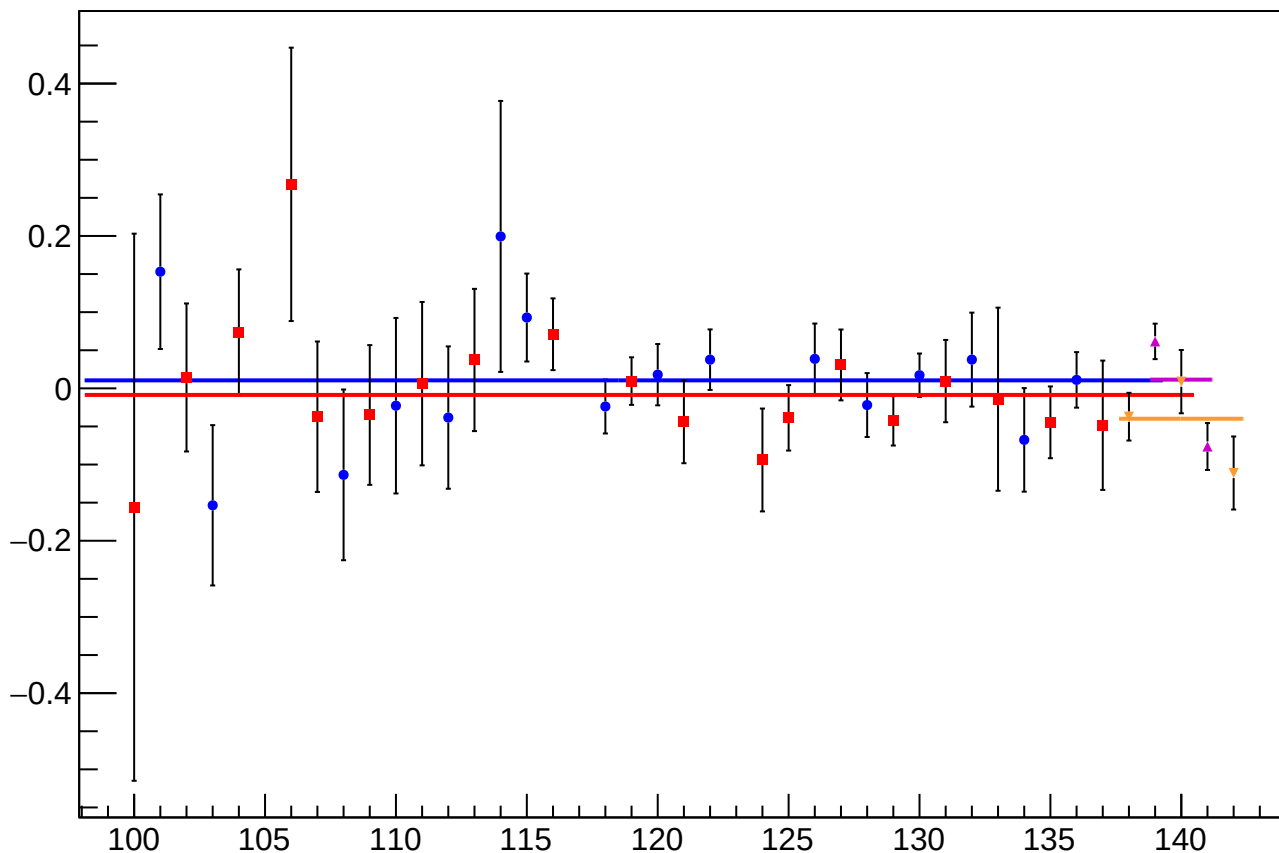
Right: 0.000+/-0.000 χ^2/NDF : 5998748.7/34

In: 0.000+/-0.000 χ^2/NDF :2990688.3/17

Out: 0.000+/-0.000 χ^2/NDF :4395960.4/21

All: 0.000+/-0.000 χ^2/NDF : 7771599.1/39

asym_sam_1526_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.013 χ^2 /NDF: 13.1/15

Left Out: -0.040 $\pm$ 0.022 χ^2 /NDF:3.6/2

Right Out: -0.009 $\pm$ 0.013 χ^2 /NDF: 12.4/18

Left In: 0.011 $\pm$ 0.019 χ^2 /NDF:12.8/1

Left: -0.010 $\pm$ 0.014 χ^2 /NDF: 19.5/4

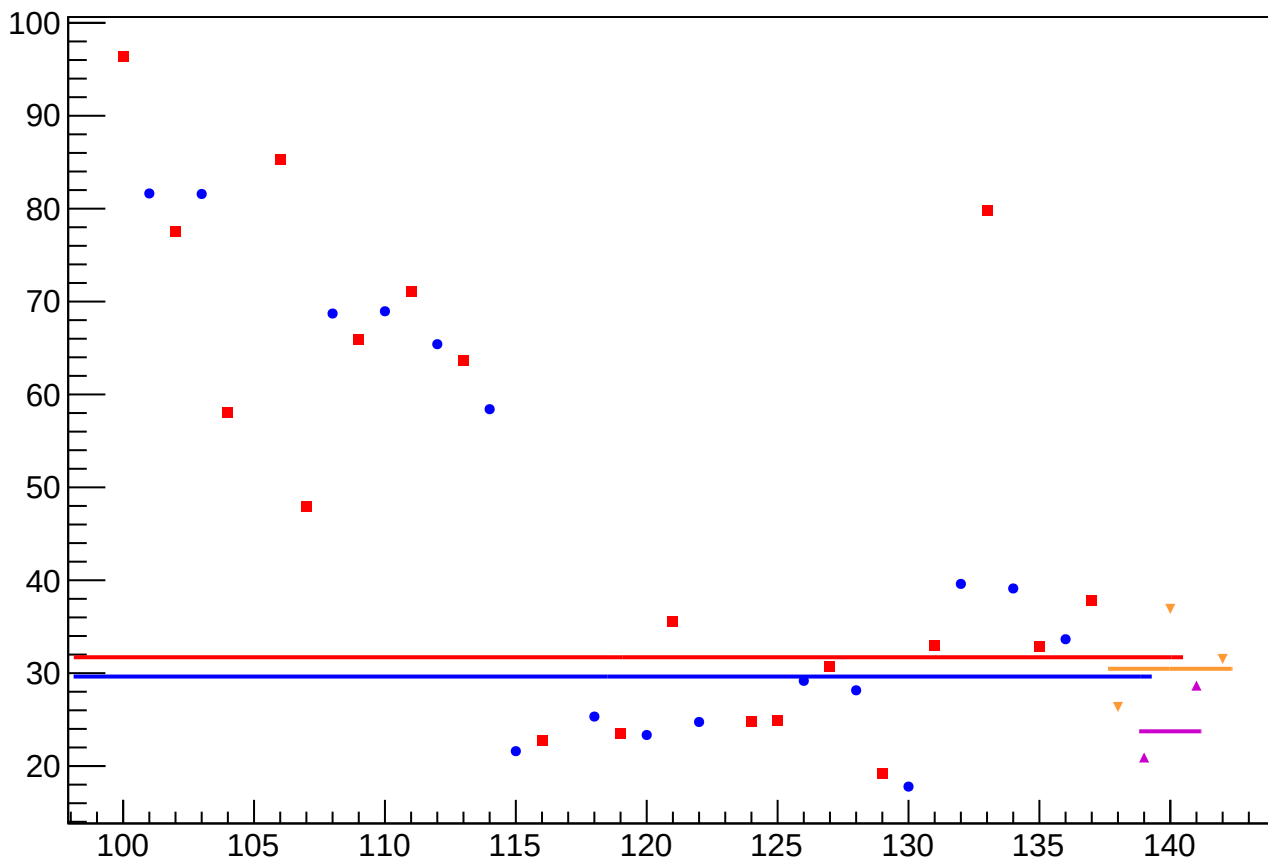
Right: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/34

In: 0.011 $\pm$ 0.010 χ^2 /NDF:25.9/17

Out: -0.017 $\pm$ 0.011 χ^2 /NDF:17.5/21

All: -0.002 $\pm$ 0.008 χ^2 /NDF: 46.6/39

asym_sam_1526_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.635+/-0.009 χ^2/NDF : 2448468.0/15

Left Out: 30.471+/-0.016 χ^2/NDF : 83683.1/2

Right Out: 31.712+/-0.009 χ^2/NDF : 2651470.3/18

Left In: 23.740+/-0.013 χ^2/NDF : 80363.9/1

Left: 26.515+/-0.010 χ^2/NDF : 272444.1/4

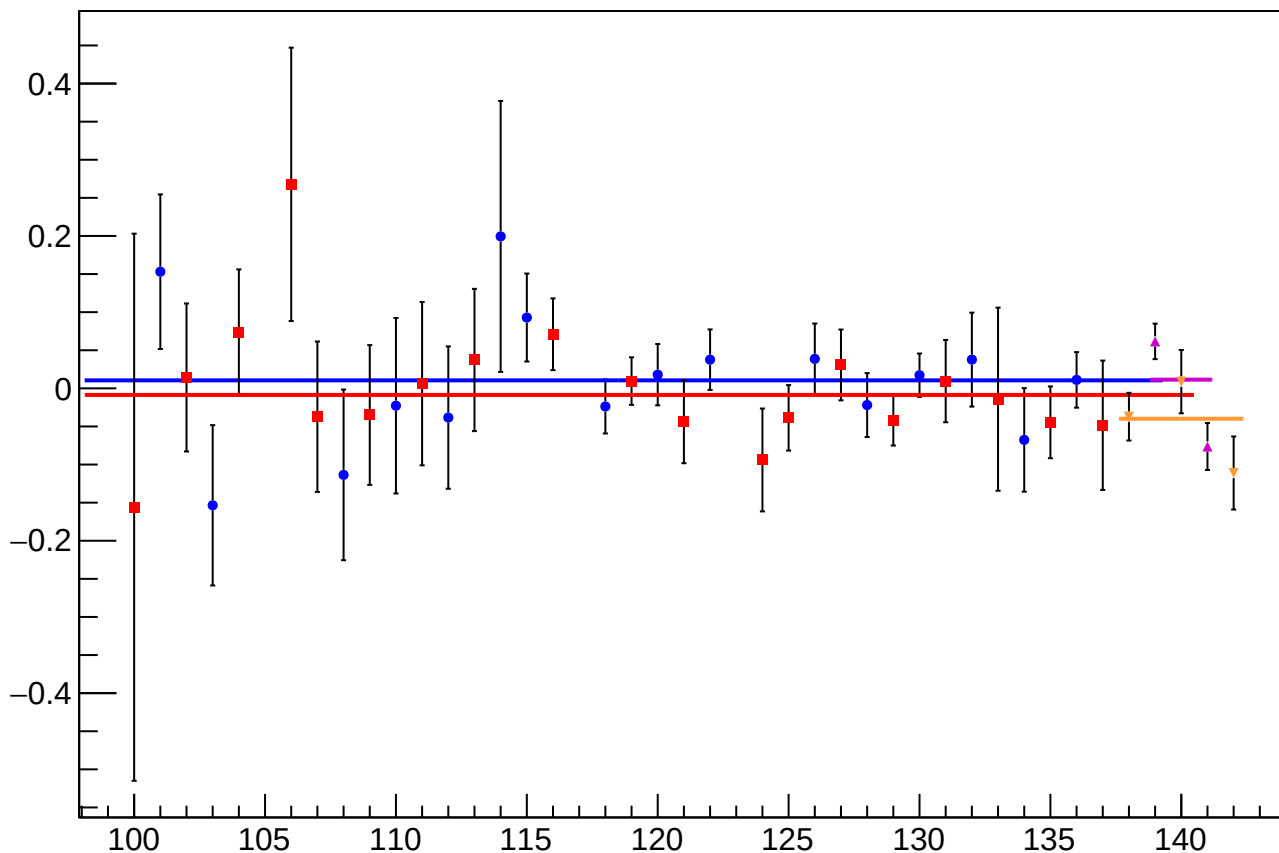
Right: 30.618+/-0.006 χ^2/NDF : 5125863.2/34

In: 27.784+/-0.007 χ^2/NDF : 2667157.5/17

Out: 31.386+/-0.008 χ^2/NDF : 2739773.6/21

All: 29.426+/-0.005 χ^2/NDF : 5516195.9/39

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.013 χ^2 /NDF: 13.1/15

Left Out: -0.040 $\pm$ 0.022 χ^2 /NDF:3.6/2

Right Out: -0.009 $\pm$ 0.013 χ^2 /NDF: 12.4/18

Left In: 0.011 $\pm$ 0.019 χ^2 /NDF:12.8/1

Left: -0.010 $\pm$ 0.014 χ^2 /NDF: 19.5/4

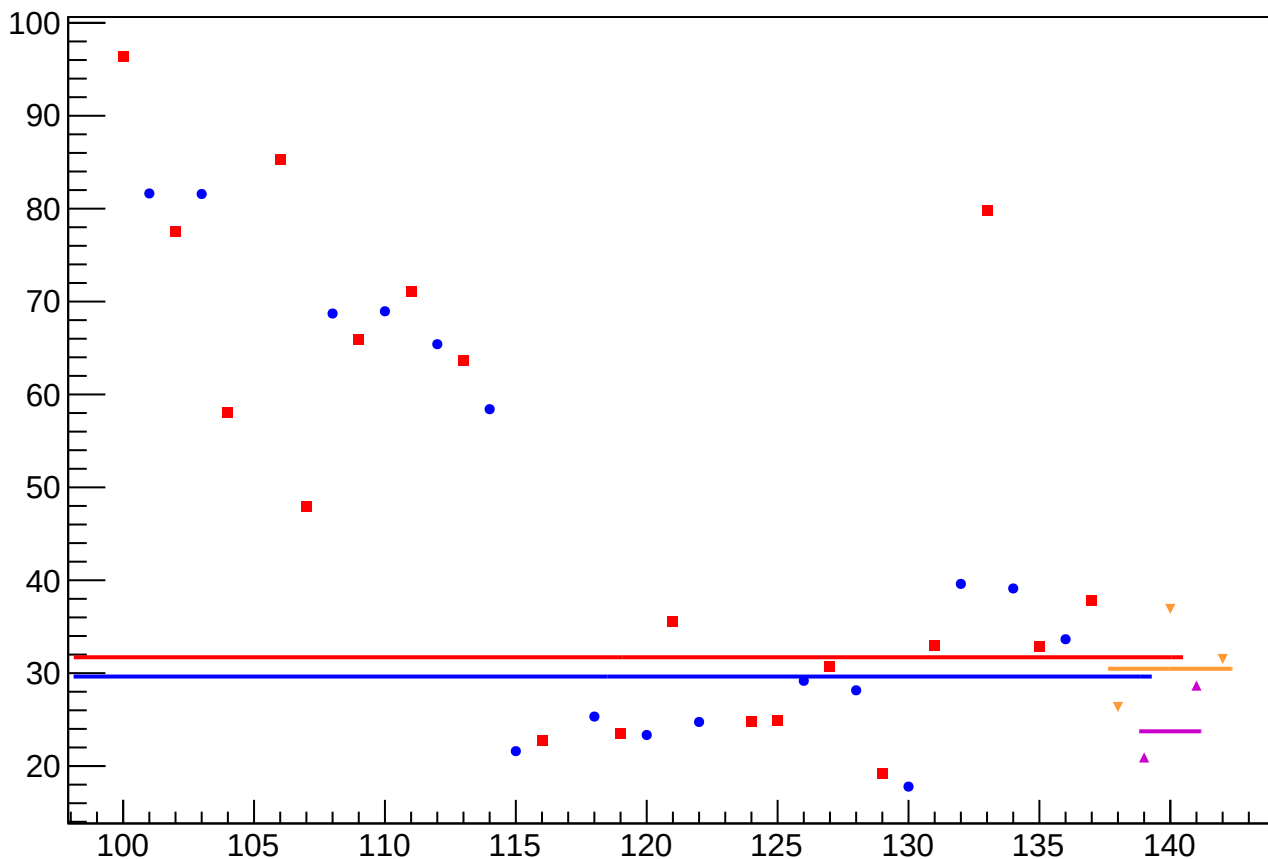
Right: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/34

In: 0.011 $\pm$ 0.010 χ^2 /NDF:25.9/17

Out: -0.017 $\pm$ 0.011 χ^2 /NDF:17.5/21

All: -0.002 $\pm$ 0.008 χ^2 /NDF: 46.6/39

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.635 $\pm$ 0.009 χ^2 /NDF: 2448468.0/15

Left Out: 30.471 $\pm$ 0.016 χ^2 /NDF:83683.1/2

Right Out: 31.712 $\pm$ 0.009 χ^2 /NDF: 2651470.3/18

Left In: 23.740 $\pm$ 0.013 χ^2 /NDF:80363.9/1

Left: 26.515 $\pm$ 0.010 χ^2 /NDF: 272444.1/4

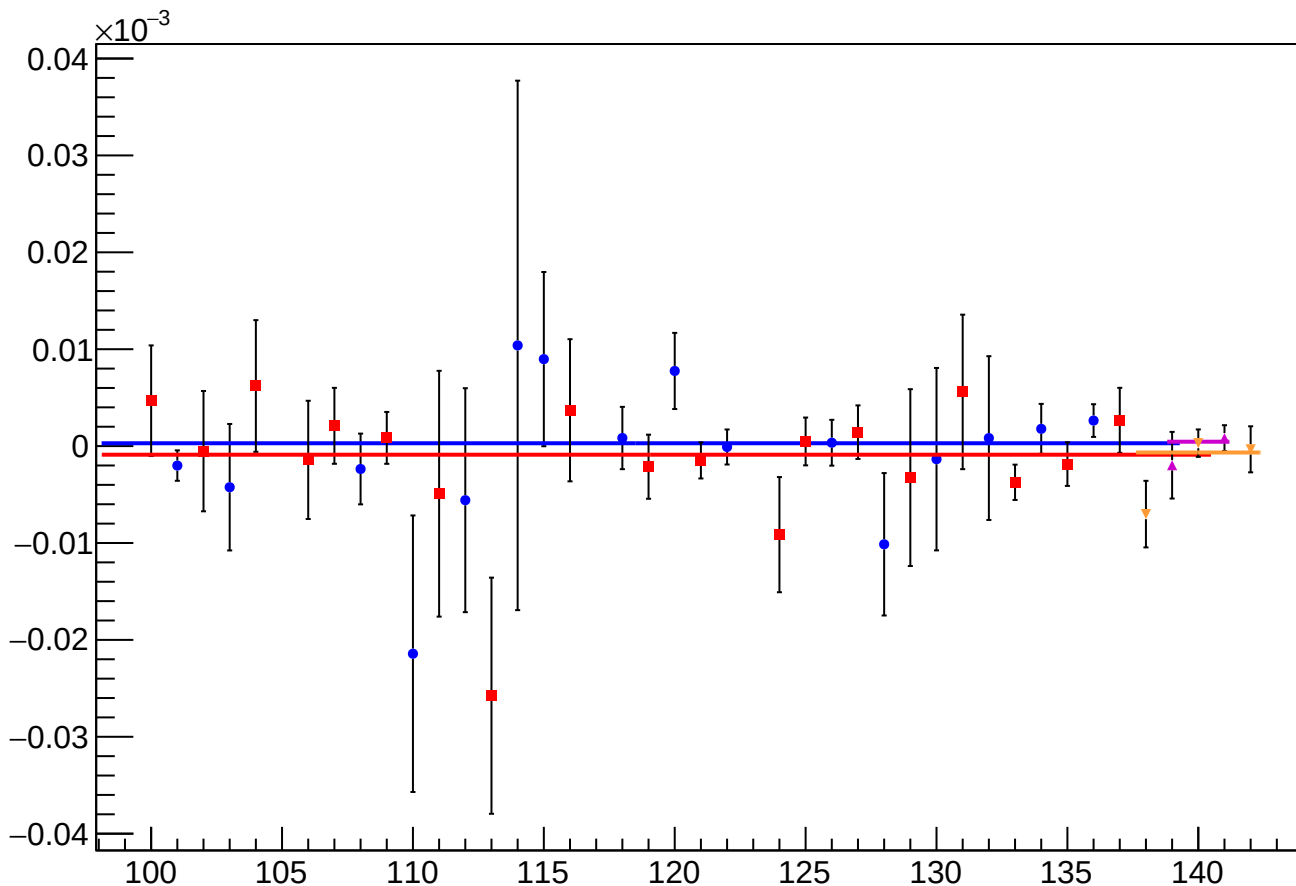
Right: 30.618 $\pm$ 0.006 χ^2 /NDF: 5125863.2/34

In: 27.784 $\pm$ 0.007 χ^2 /NDF:2667157.5/17

Out: 31.386 $\pm$ 0.008 χ^2 /NDF:2739773.6/21

All: 29.426 $\pm$ 0.005 χ^2 /NDF: 5516195.9/39

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.8/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:3.9/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.4/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.6/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 4.9/4

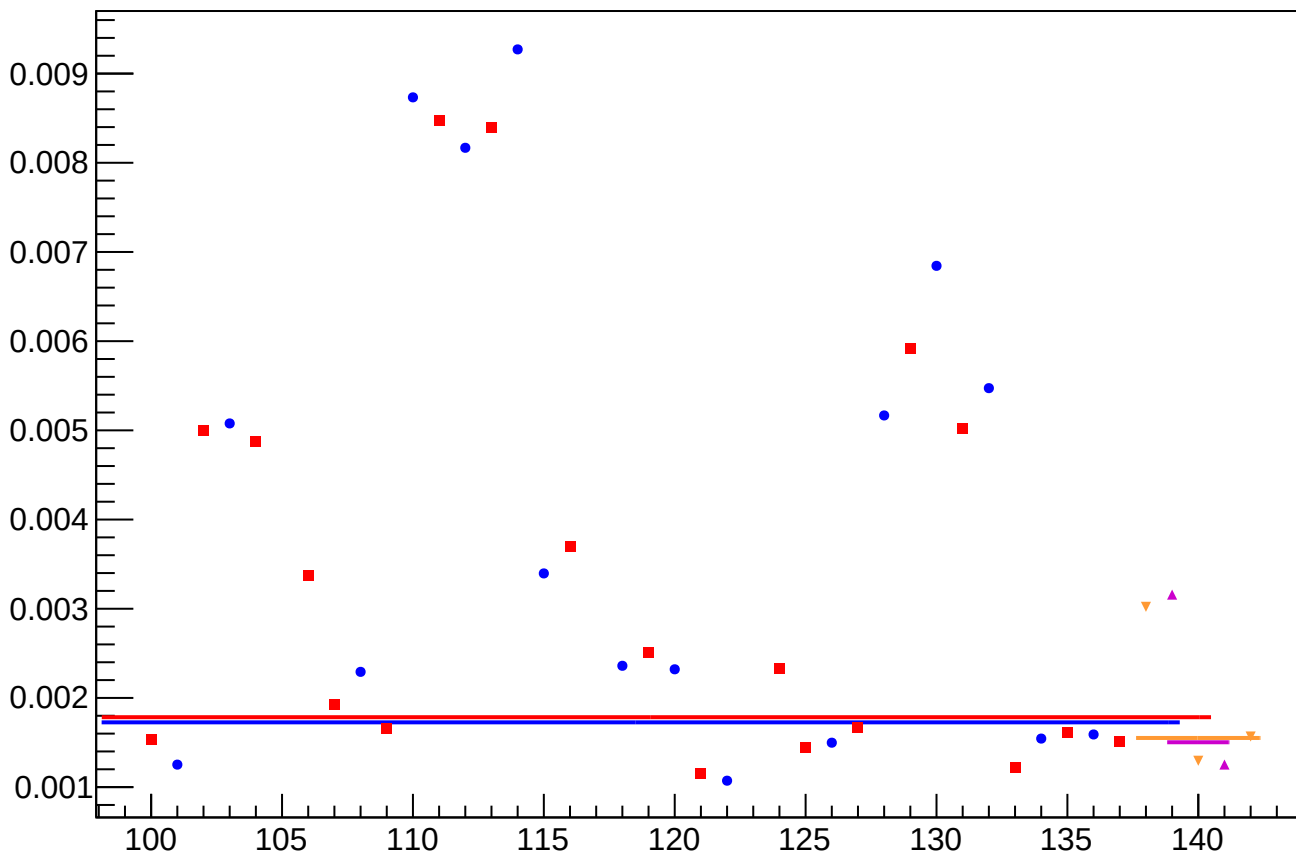
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 31.3/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:15.4/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:19.3/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 36.3/39

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3932244.6/15

Left Out: 0.002+/-0.000 χ^2/NDF :431541.6/2

Right Out: 0.002+/-0.000 χ^2/NDF : 3718778.6/18

Left In: 0.002+/-0.000 χ^2/NDF :533502.2/1

Left: 0.002+/-0.000 χ^2/NDF : 966660.3/4

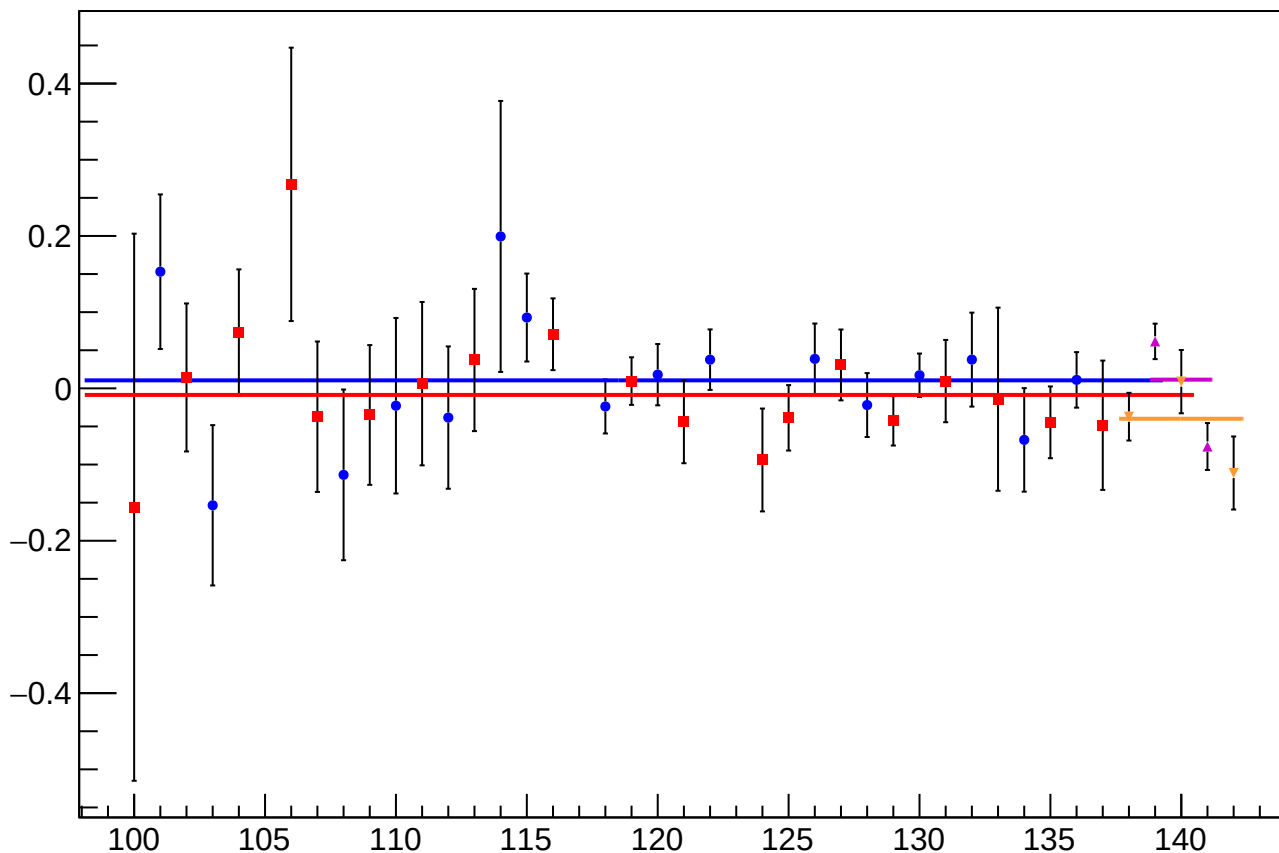
Right: 0.002+/-0.000 χ^2/NDF : 7656643.6/34

In: 0.002+/-0.000 χ^2/NDF :4512503.8/17

Out: 0.002+/-0.000 χ^2/NDF :4206838.6/21

All: 0.002+/-0.000 χ^2/NDF : 8724259.1/39

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.013 χ^2 /NDF: 13.1/15

Left Out: -0.040 $\pm$ 0.022 χ^2 /NDF:3.6/2

Right Out: -0.009 $\pm$ 0.013 χ^2 /NDF: 12.4/18

Left In: 0.011 $\pm$ 0.019 χ^2 /NDF:12.8/1

Left: -0.010 $\pm$ 0.014 χ^2 /NDF: 19.5/4

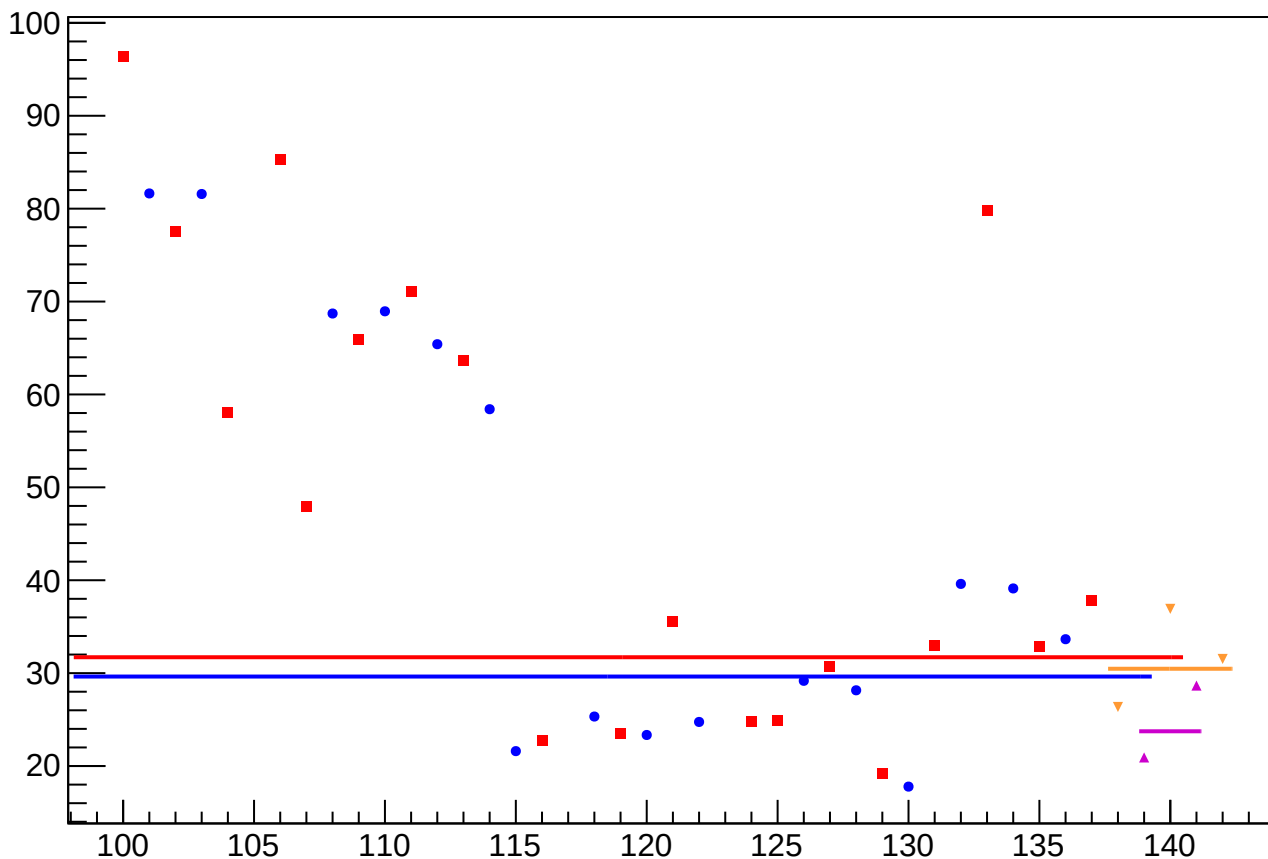
Right: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/34

In: 0.011 $\pm$ 0.010 χ^2 /NDF:25.9/17

Out: -0.017 $\pm$ 0.011 χ^2 /NDF:17.5/21

All: -0.002 $\pm$ 0.008 χ^2 /NDF: 46.6/39

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.633 $\pm$ 0.009 χ^2/NDF : 2448670.6/15

Left Out: 30.471 $\pm$ 0.016 χ^2/NDF : 83689.0/2

Right Out: 31.711 $\pm$ 0.009 χ^2/NDF : 2651638.6/18

Left In: 23.740 $\pm$ 0.013 χ^2/NDF : 80361.9/1

Left: 26.516 $\pm$ 0.010 χ^2/NDF : 272435.4/4

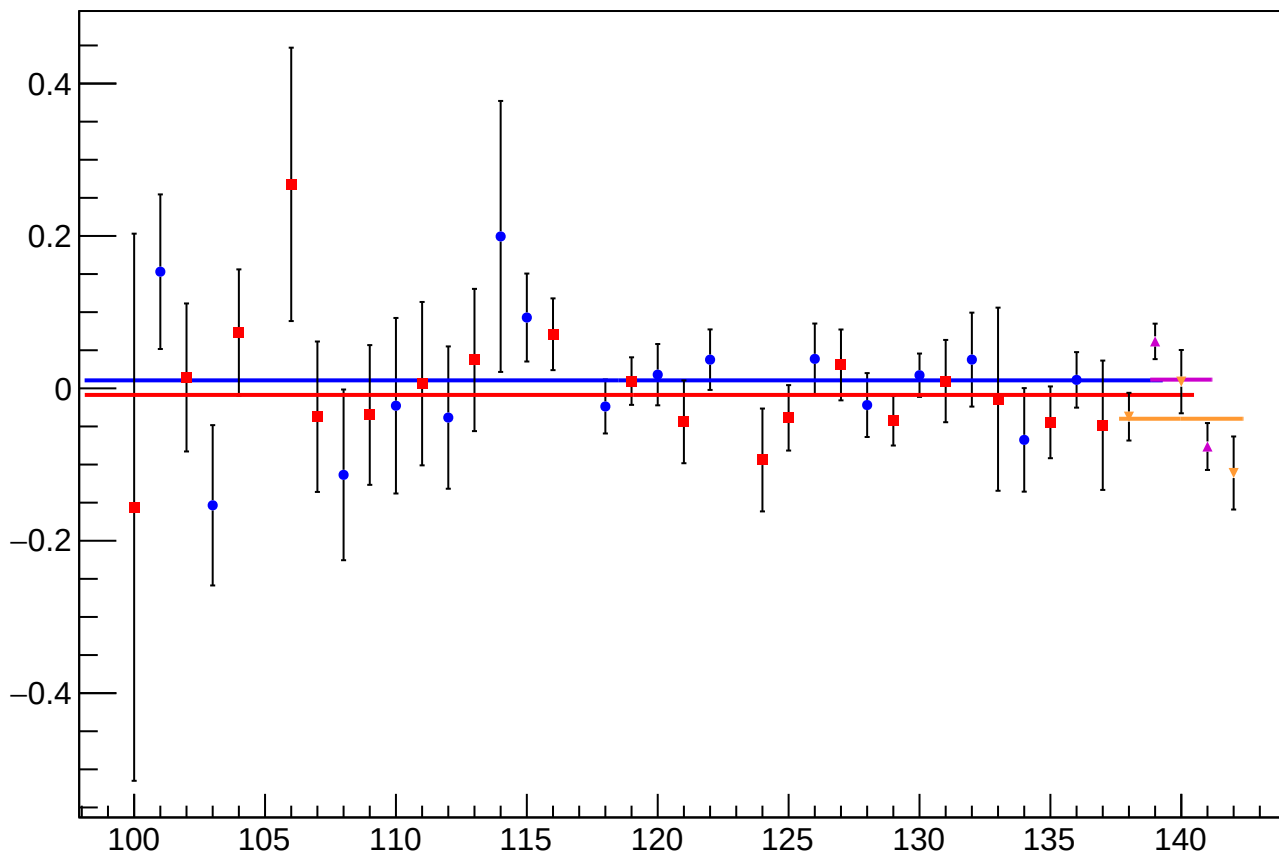
Right: 30.617 $\pm$ 0.006 χ^2/NDF : 5126235.3/34

In: 27.784 $\pm$ 0.007 χ^2/NDF : 2667281.9/17

Out: 31.385 $\pm$ 0.008 χ^2/NDF : 2739938.2/21

All: 29.425 $\pm$ 0.005 χ^2/NDF : 5516471.0/39

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.013 χ^2 /NDF: 13.1/15

Left Out: -0.040 $\pm$ 0.022 χ^2 /NDF:3.6/2

Right Out: -0.009 $\pm$ 0.013 χ^2 /NDF: 12.4/18

Left In: 0.011 $\pm$ 0.019 χ^2 /NDF:12.8/1

Left: -0.010 $\pm$ 0.014 χ^2 /NDF: 19.5/4

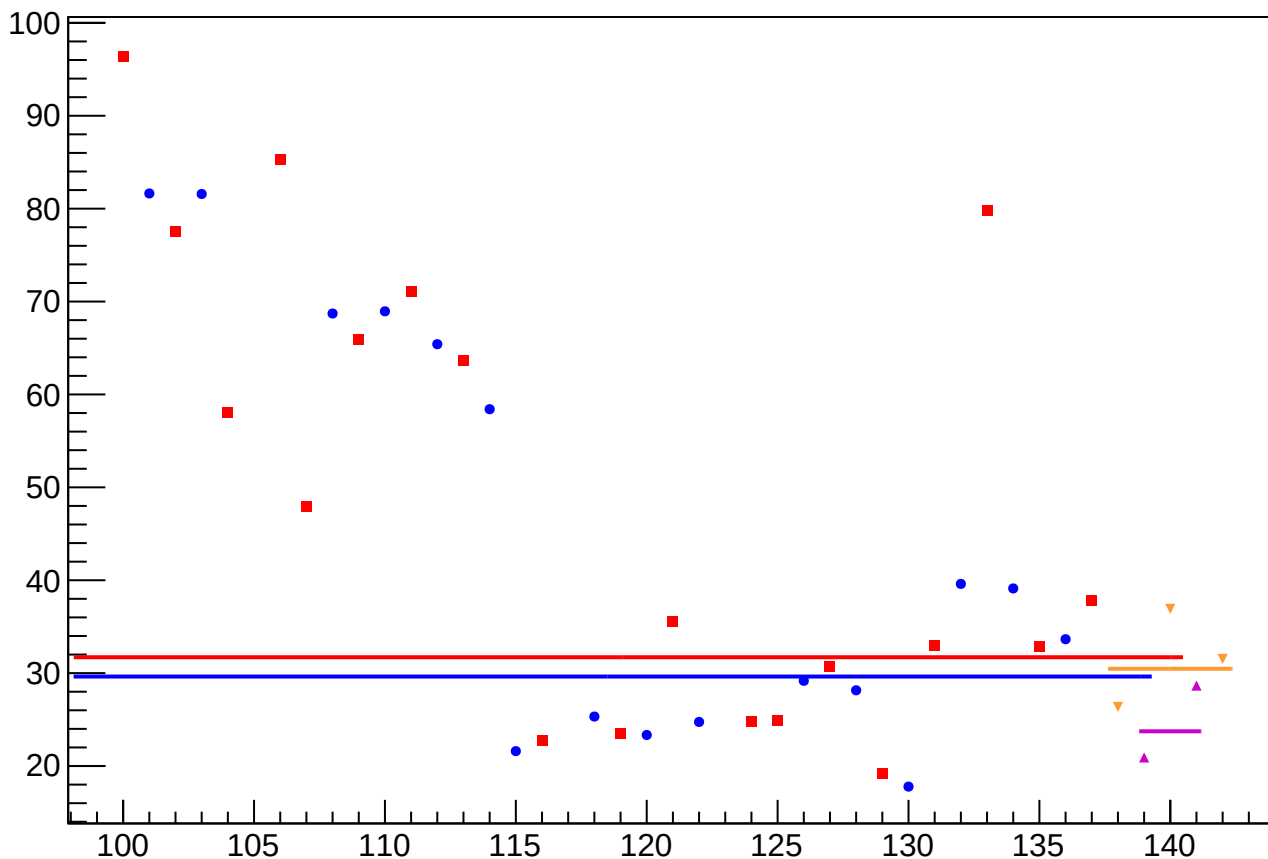
Right: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/34

In: 0.011 $\pm$ 0.010 χ^2 /NDF:25.9/17

Out: -0.017 $\pm$ 0.011 χ^2 /NDF:17.5/21

All: -0.002 $\pm$ 0.008 χ^2 /NDF: 46.6/39

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.633 $\pm$ 0.009 χ^2/NDF : 2448670.6/15

Left Out: 30.471 $\pm$ 0.016 χ^2/NDF : 83689.0/2

Right Out: 31.711 $\pm$ 0.009 χ^2/NDF : 2651638.6/18

Left In: 23.740 $\pm$ 0.013 χ^2/NDF : 80361.9/1

Left: 26.516 $\pm$ 0.010 χ^2/NDF : 272435.4/4

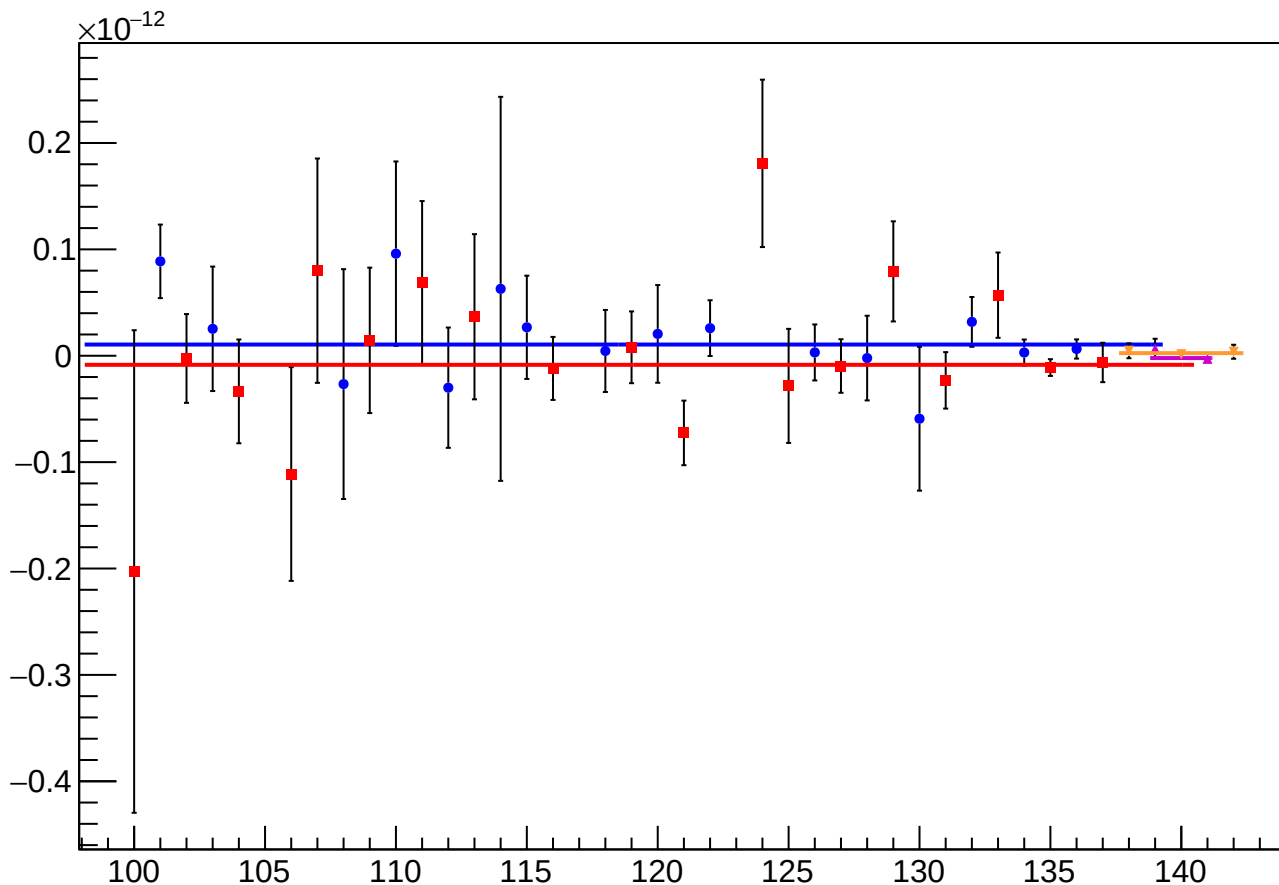
Right: 30.617 $\pm$ 0.006 χ^2/NDF : 5126235.3/34

In: 27.784 $\pm$ 0.007 χ^2/NDF : 2667281.9/17

Out: 31.385 $\pm$ 0.008 χ^2/NDF : 2739938.2/21

All: 29.425 $\pm$ 0.005 χ^2/NDF : 5516471.0/39

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 10.1/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.2/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 21.4/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF: 0.9/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 2.5/4

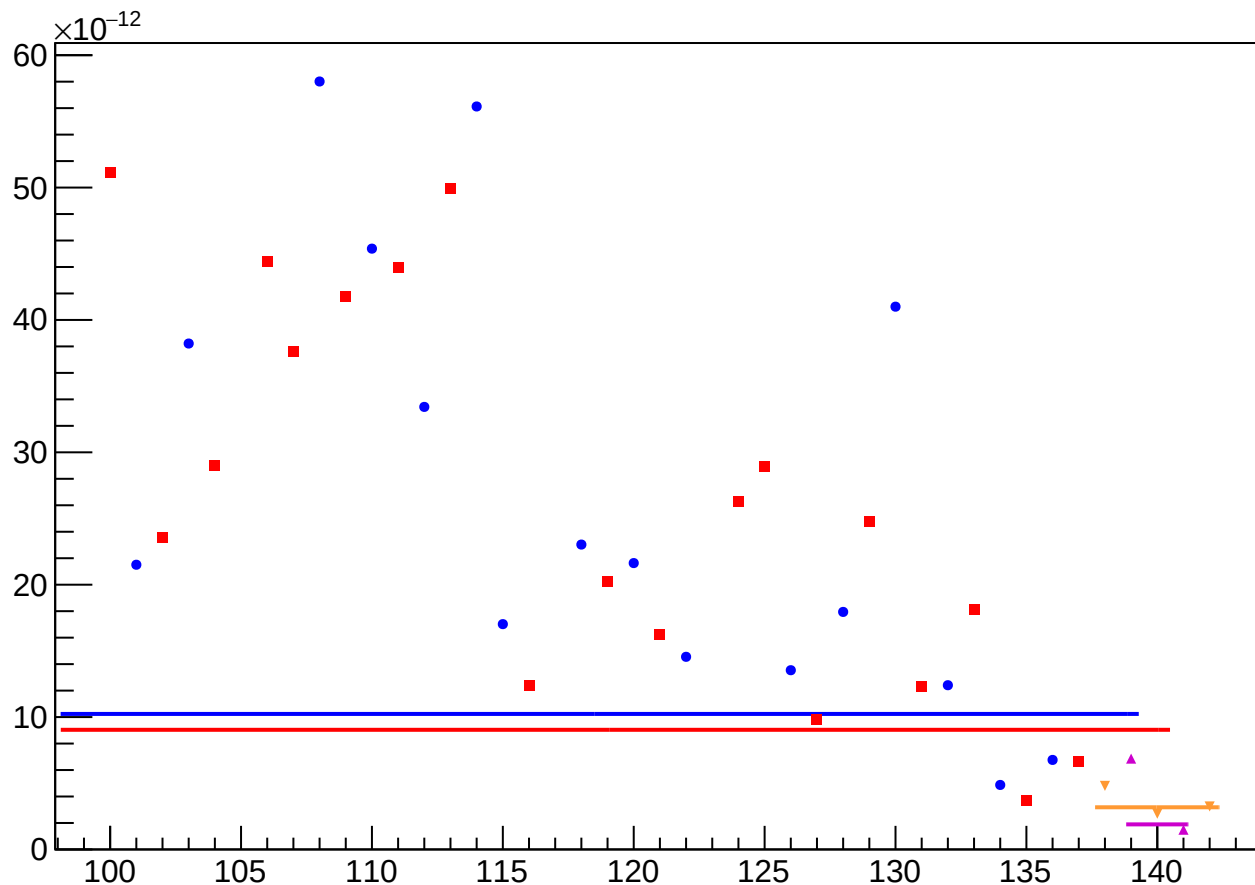
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 36.6/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF: 14.8/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 24.4/21

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 39.2/39

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3511693.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :140179.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4514368.5/18

Left In: 0.000+/-0.000 χ^2/NDF :595359.1/1

Left: 0.000+/-0.000 χ^2/NDF : 950960.0/4

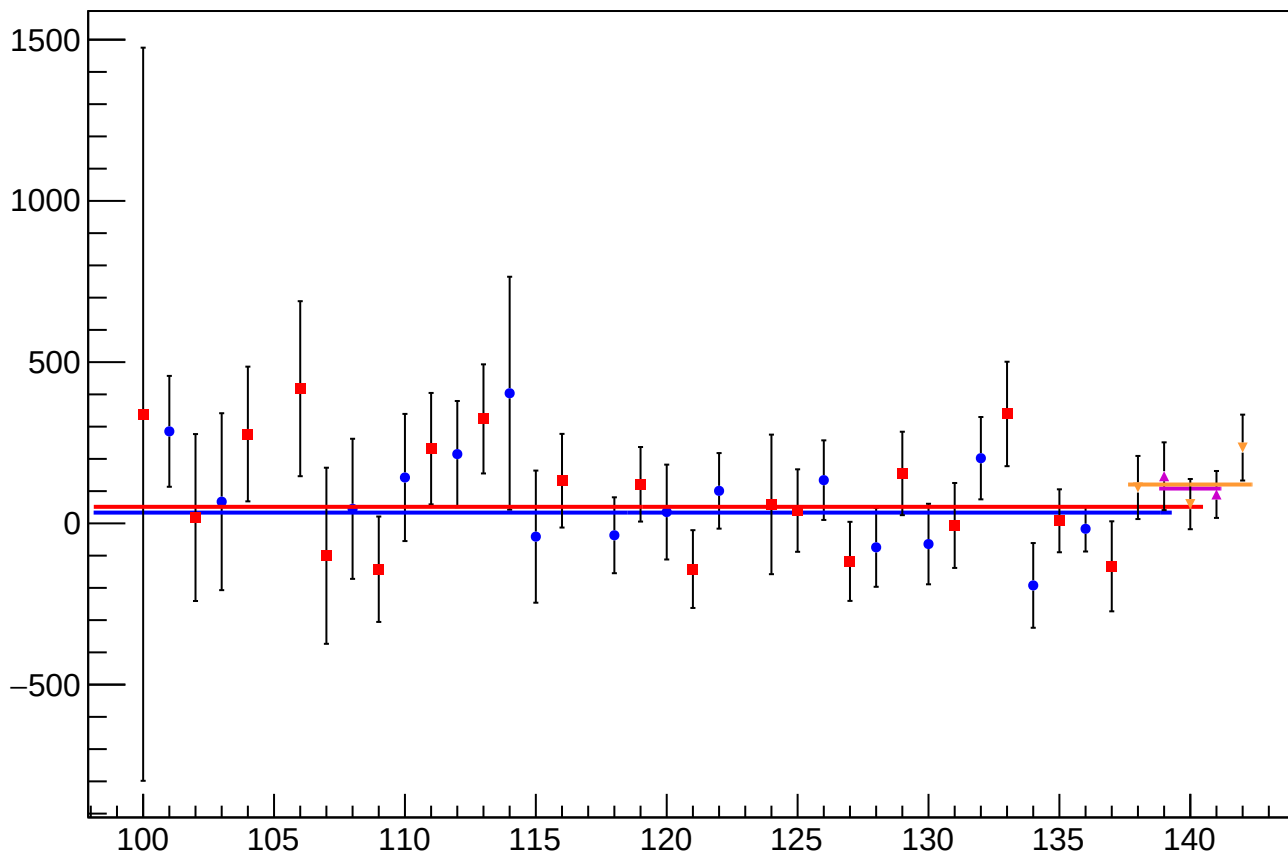
Right: 0.000+/-0.000 χ^2/NDF : 8066534.1/34

In: 0.000+/-0.000 χ^2/NDF :7367899.3/17

Out: 0.000+/-0.000 χ^2/NDF :6218186.9/21

All: 0.000+/-0.000 χ^2/NDF : 13792365.1/39

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 33.431+/-33.881 χ^2/NDF : 12.8/15

Left Out: 120.517+/-52.333 χ^2/NDF : 1.9/2

Right Out: 51.335+/-34.851 χ^2/NDF : 19.6/18

Left In: 108.038+/-59.822 χ^2/NDF : 0.2/1

Left: 115.107+/-39.388 χ^2/NDF : 2.1/4

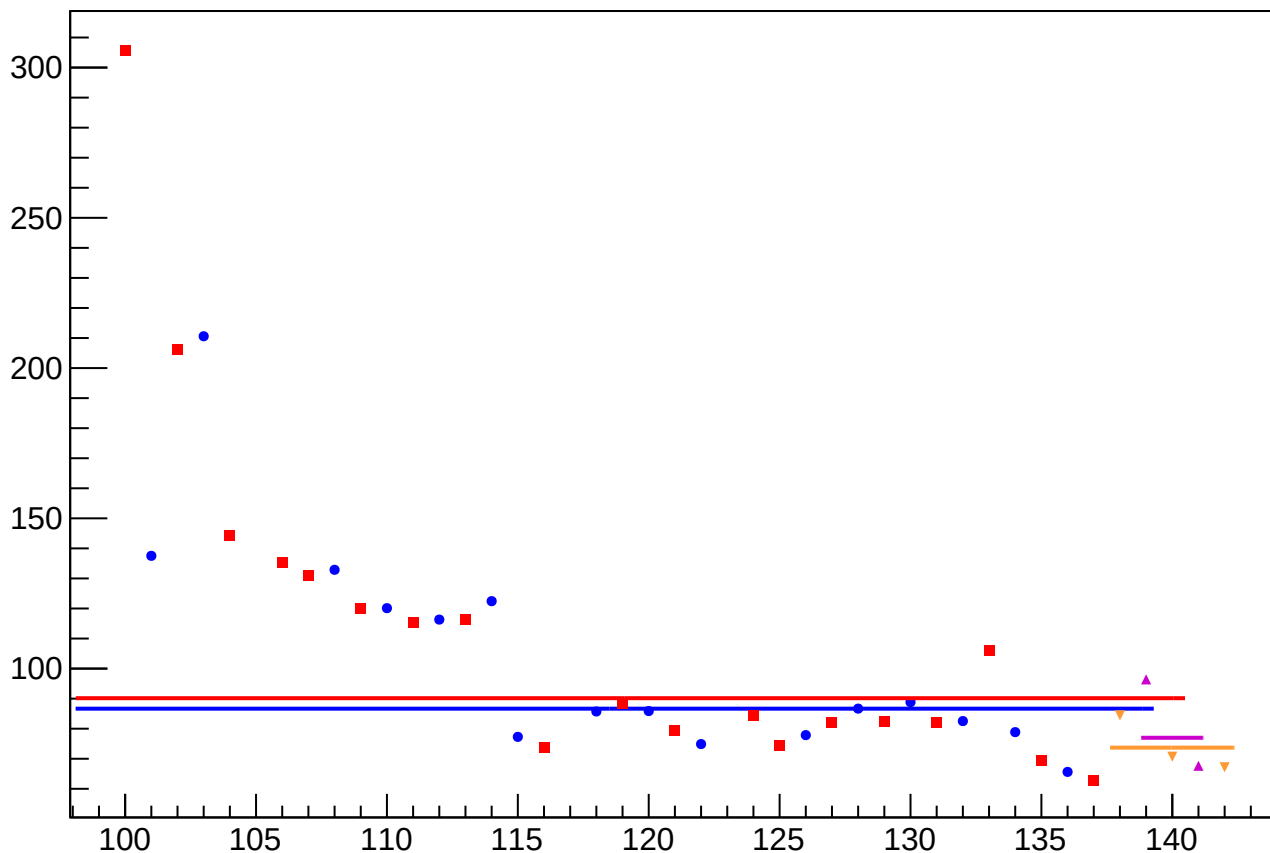
Right: 42.130+/-24.293 χ^2/NDF : 32.5/34

In: 51.550+/-29.481 χ^2/NDF : 14.2/17

Out: 72.590+/-29.007 χ^2/NDF : 22.6/21

All: 62.240+/-20.677 χ^2/NDF : 37.1/39

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 86.666+/-0.024 χ^2/NDF : 1038813.4/15

Left Out: 73.697+/-0.037 χ^2/NDF : 35305.7/2

Right Out: 90.153+/-0.025 χ^2/NDF : 1149976.9/18

Left In: 76.979+/-0.042 χ^2/NDF : 101183.8/1

Left: 75.120+/-0.028 χ^2/NDF : 139900.2/4

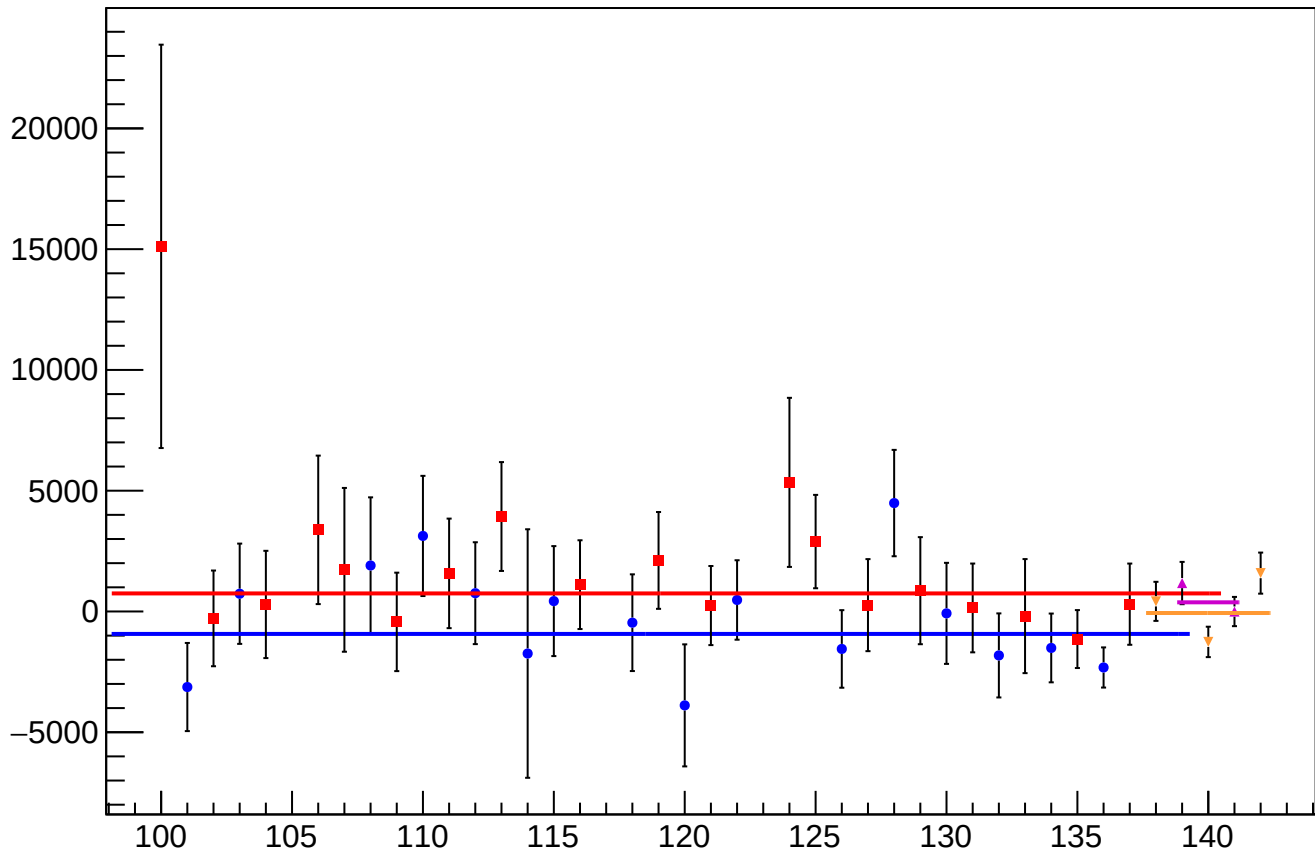
Right: 88.360+/-0.017 χ^2/NDF : 2199082.5/34

In: 84.313+/-0.021 χ^2/NDF : 1179706.3/17

Out: 85.097+/-0.021 χ^2/NDF : 1322285.6/21

All: 84.712+/-0.015 χ^2/NDF : 2502709.8/39

asym_sam_3726_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -929.821 ± 440.893 $\chi^2/\text{NDF}: 18.5/15$

Left Out: -63.416 ± 428.966 $\chi^2/\text{NDF}: 7.7/2$

Right Out: 747.199 ± 467.902 $\chi^2/\text{NDF}: 13.0/18$

Left In: 378.673 ± 498.034 $\chi^2/\text{NDF}: 1.2/1$

Left: 124.872 ± 325.024 $\chi^2/\text{NDF}: 9.4/4$

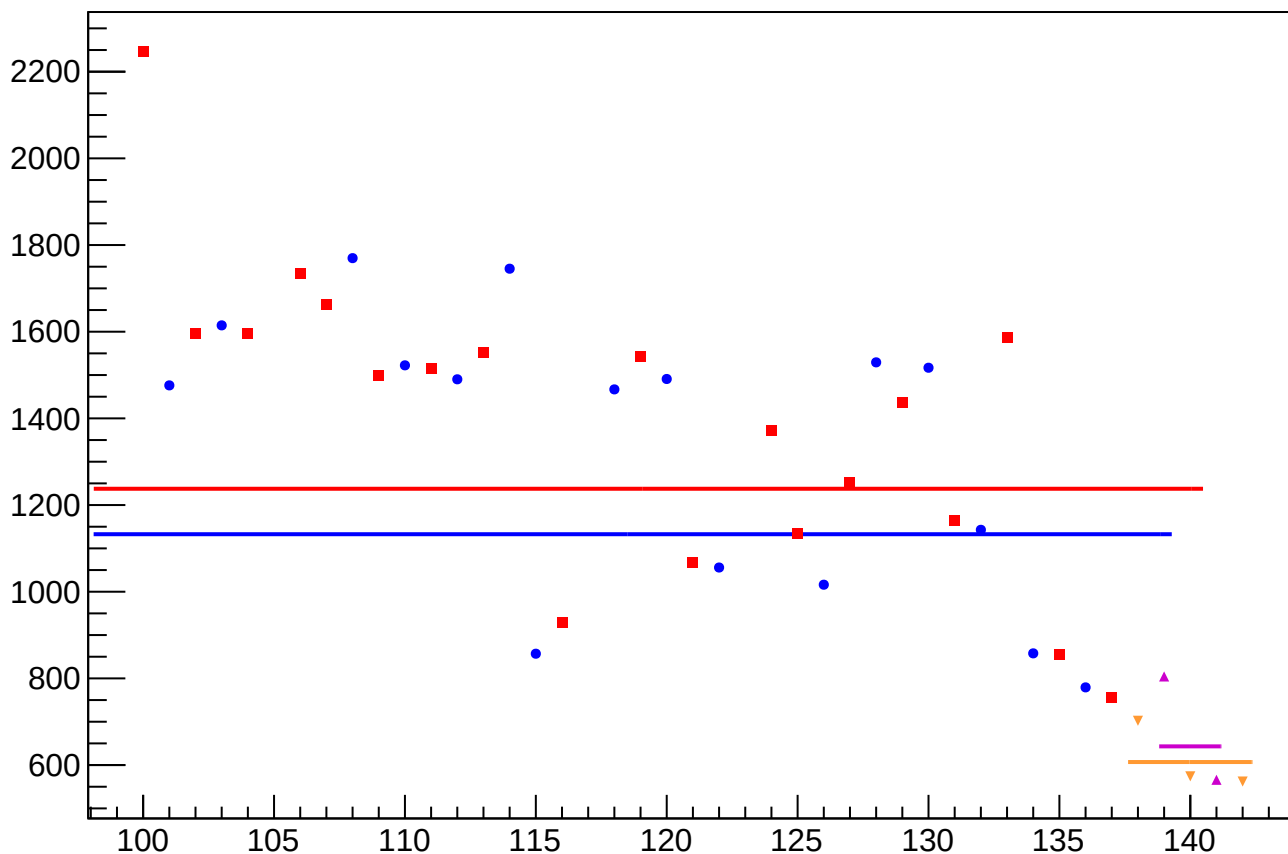
Right: -141.108 ± 320.882 $\chi^2/\text{NDF}: 38.3/34$

In: -354.912 ± 330.120 $\chi^2/\text{NDF}: 23.6/17$

Out: 306.766 ± 316.195 $\chi^2/\text{NDF}: 22.4/21$

All: -9.824 ± 228.348 $\chi^2/\text{NDF}: 48.1/39$

asym_sam_3726_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1132.688 $\pm$ 0.312 χ^2 /NDF: 1124151.1/15

Left Out: 606.999 $\pm$ 0.303 χ^2 /NDF: 38832.2/2

Right Out: 1237.591 $\pm$ 0.331 χ^2 /NDF: 895314.3/18

Left In: 643.133 $\pm$ 0.352 χ^2 /NDF: 100315.2/1

Left: 622.388 $\pm$ 0.230 χ^2 /NDF: 145191.4/4

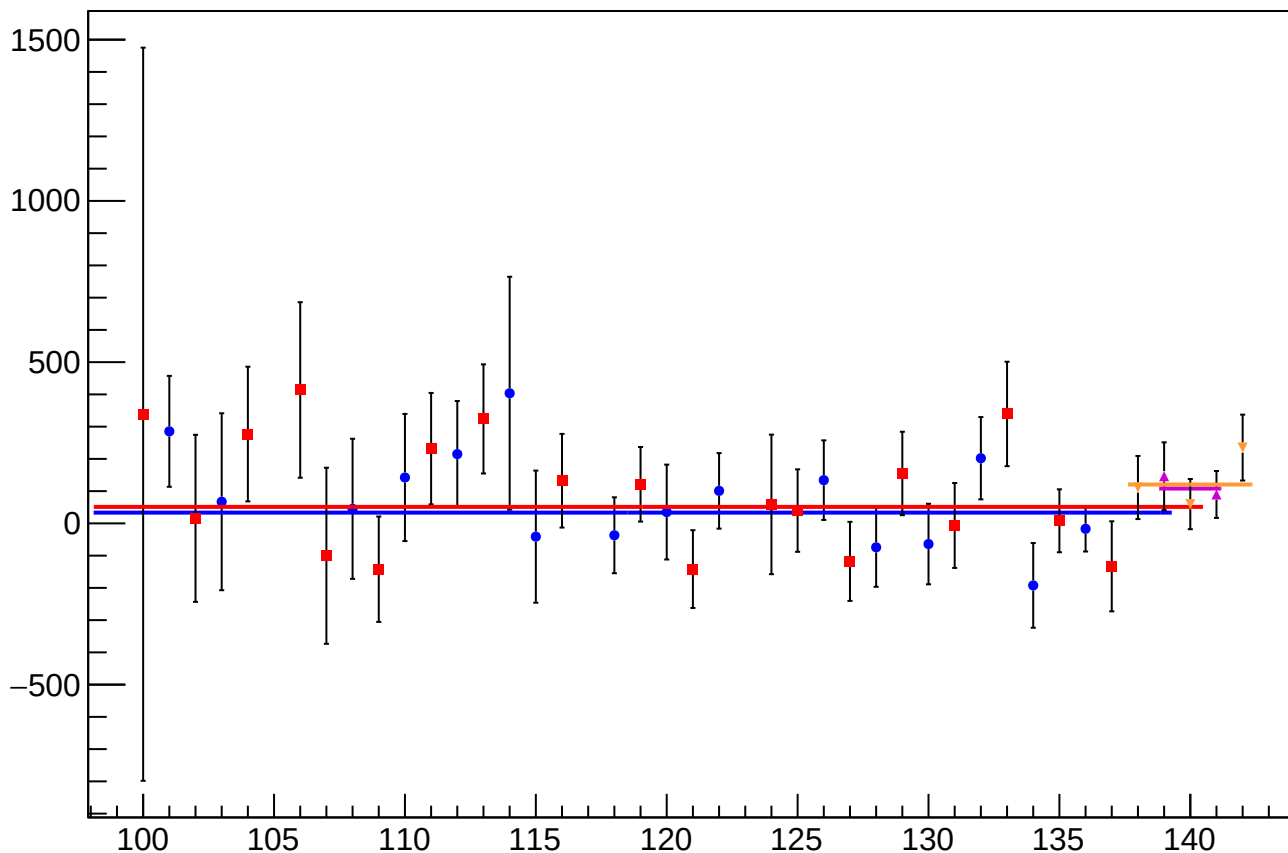
Right: 1182.025 $\pm$ 0.227 χ^2 /NDF: 2072715.6/34

In: 917.593 $\pm$ 0.233 χ^2 /NDF: 2307881.1/17

Out: 894.970 $\pm$ 0.224 χ^2 /NDF: 2907849.7/21

All: 905.795 $\pm$ 0.161 χ^2 /NDF: 5220629.4/39

cor_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 33.422 $\pm$ 33.881 χ^2 /NDF: 12.8/15

Left Out: 120.526 $\pm$ 52.333 χ^2 /NDF:1.9/2

Right Out: 51.188 $\pm$ 34.853 χ^2 /NDF: 19.5/18

Left In: 108.042 $\pm$ 59.822 χ^2 /NDF:0.2/1

Left: 115.113 $\pm$ 39.388 χ^2 /NDF: 2.1/4

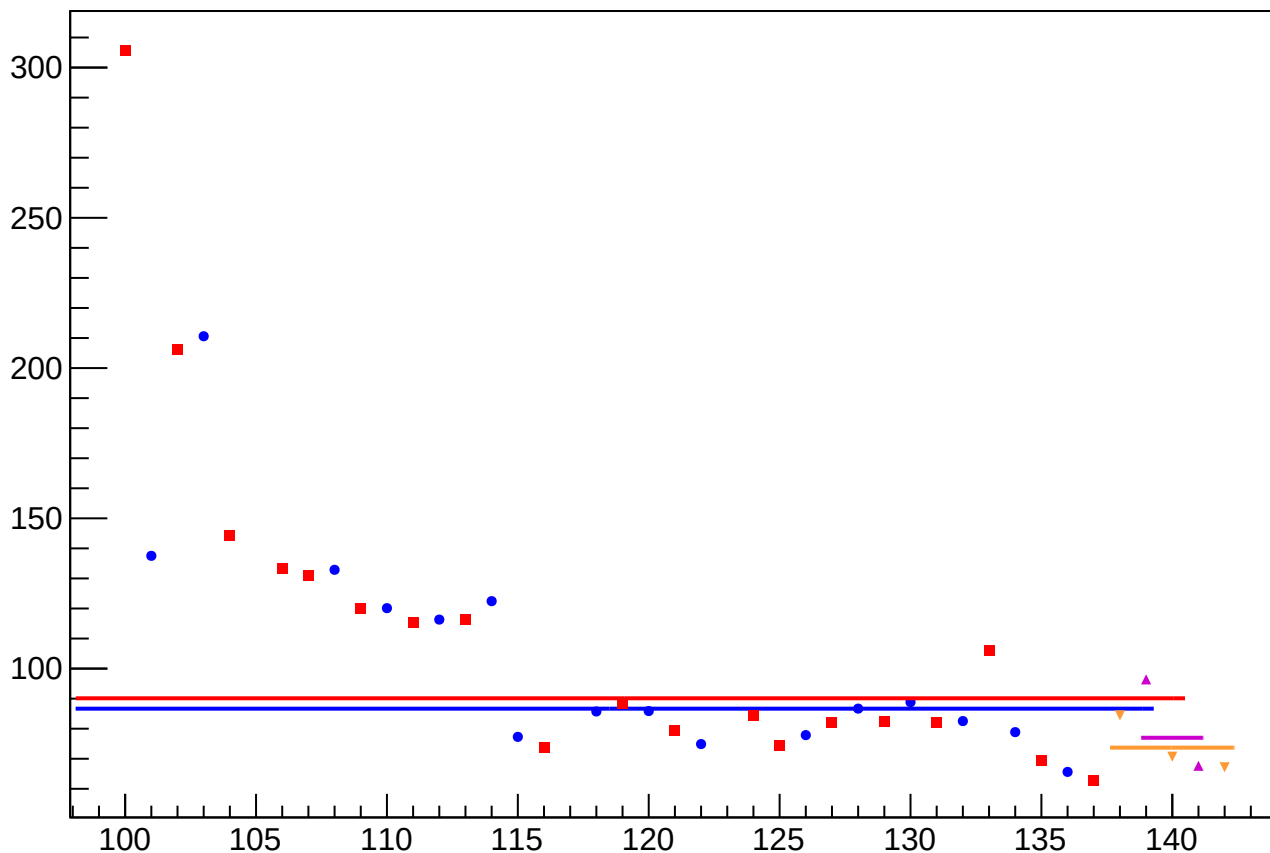
Right: 42.054 $\pm$ 24.294 χ^2 /NDF: 32.5/34

In: 51.545 $\pm$ 29.481 χ^2 /NDF:14.2/17

Out: 72.492 $\pm$ 29.009 χ^2 /NDF:22.6/21

All: 62.187 $\pm$ 20.677 χ^2 /NDF: 37.0/39

cor_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 86.666 $\pm$ 0.024 χ^2 /NDF: 1038816.2/15

Left Out: 73.697 $\pm$ 0.037 χ^2 /NDF: 35305.7/2

Right Out: 90.116 $\pm$ 0.025 χ^2 /NDF: 1145283.2/18

Left In: 76.979 $\pm$ 0.042 χ^2 /NDF: 101183.8/1

Left: 75.120 $\pm$ 0.028 χ^2 /NDF: 139900.2/4

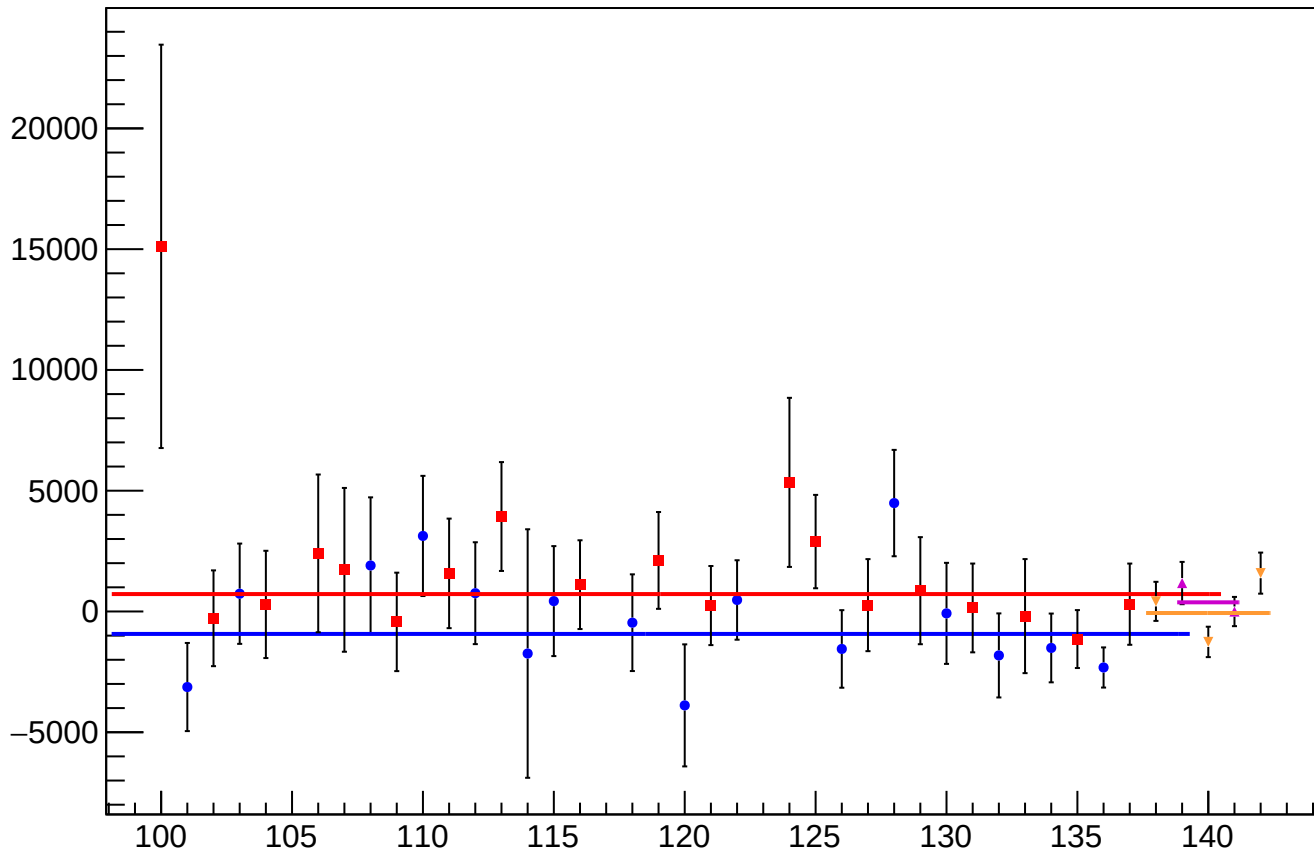
Right: 88.342 $\pm$ 0.017 χ^2 /NDF: 2194173.3/34

In: 84.313 $\pm$ 0.021 χ^2 /NDF: 1179709.1/17

Out: 85.071 $\pm$ 0.021 χ^2 /NDF: 1316970.1/21

All: 84.698 $\pm$ 0.015 χ^2 /NDF: 2497350.0/39

asym_sam_3726_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -929.788+/-440.894 χ^2/NDF : 18.5/15

Left Out: -63.398+/-428.966 χ^2/NDF : 7.7/2

Right Out: 720.600+/-468.540 χ^2/NDF : 12.5/18

Left In: 378.677+/-498.034 χ^2/NDF : 1.2/1

Left: 124.884+/-325.024 χ^2/NDF : 9.4/4

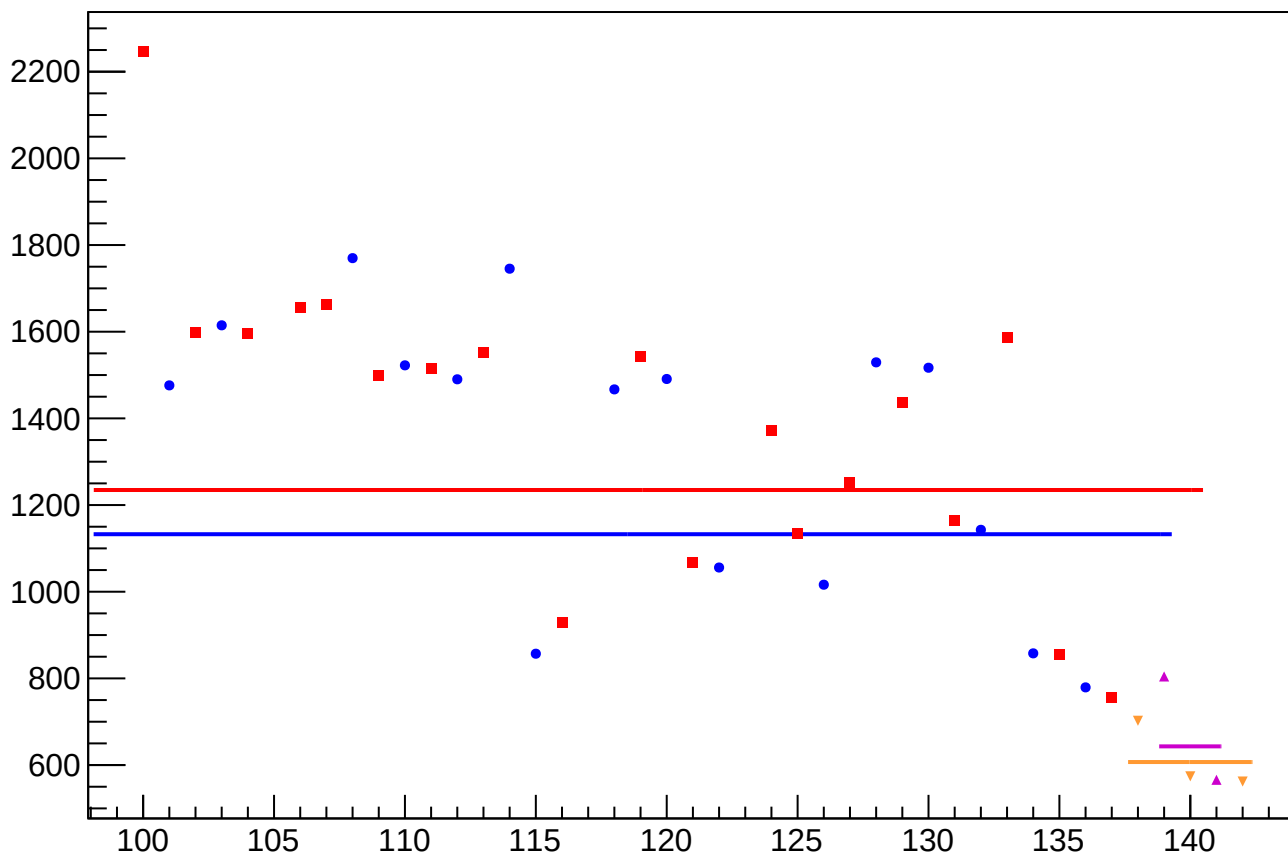
Right: -154.717+/-321.088 χ^2/NDF : 37.6/34

In: -354.890+/-330.121 χ^2/NDF : 23.6/17

Out: 294.099+/-316.392 χ^2/NDF : 21.8/21

All: -16.620+/-228.422 χ^2/NDF : 47.4/39

asym_sam_3726_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1132.689+/-0.312 χ^2/NDF : 1124187.2/15

Left Out: 606.998+/-0.303 χ^2/NDF : 38832.3/2

Right Out: 1234.709+/-0.331 χ^2/NDF : 876272.4/18

Left In: 643.133+/-0.352 χ^2/NDF : 100314.2/1

Left: 622.388+/-0.230 χ^2/NDF : 145191.0/4

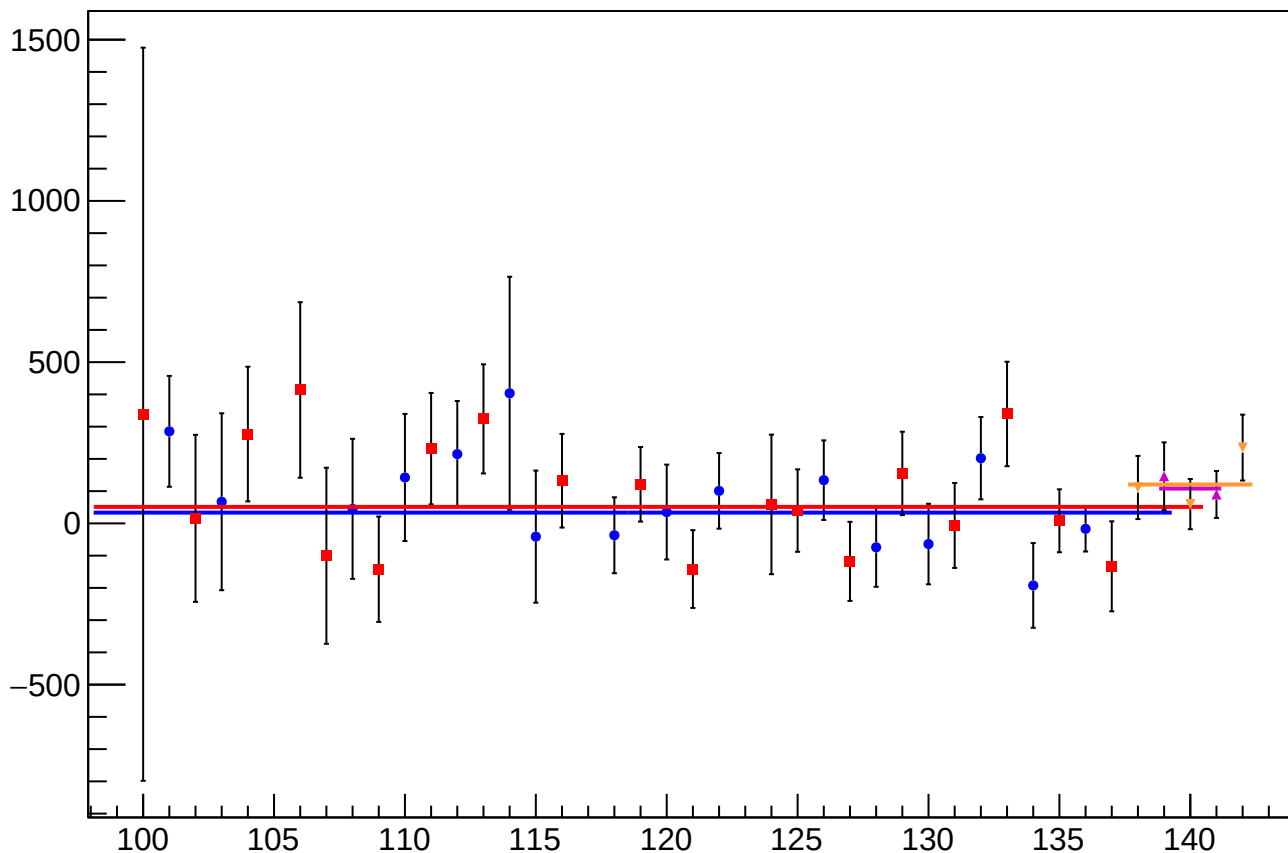
Right: 1180.601+/-0.227 χ^2/NDF : 2050749.6/34

In: 917.594+/-0.233 χ^2/NDF : 2307915.2/17

Out: 893.229+/-0.224 χ^2/NDF : 2867918.3/21

All: 904.895+/-0.162 χ^2/NDF : 5181512.0/39

eigen_cor_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 33.422 $\pm$ 33.881 χ^2 /NDF: 12.8/15

Left Out: 120.526 $\pm$ 52.333 χ^2 /NDF:1.9/2

Right Out: 51.188 $\pm$ 34.853 χ^2 /NDF: 19.5/18

Left In: 108.042 $\pm$ 59.822 χ^2 /NDF:0.2/1

Left: 115.113 $\pm$ 39.388 χ^2 /NDF: 2.1/4

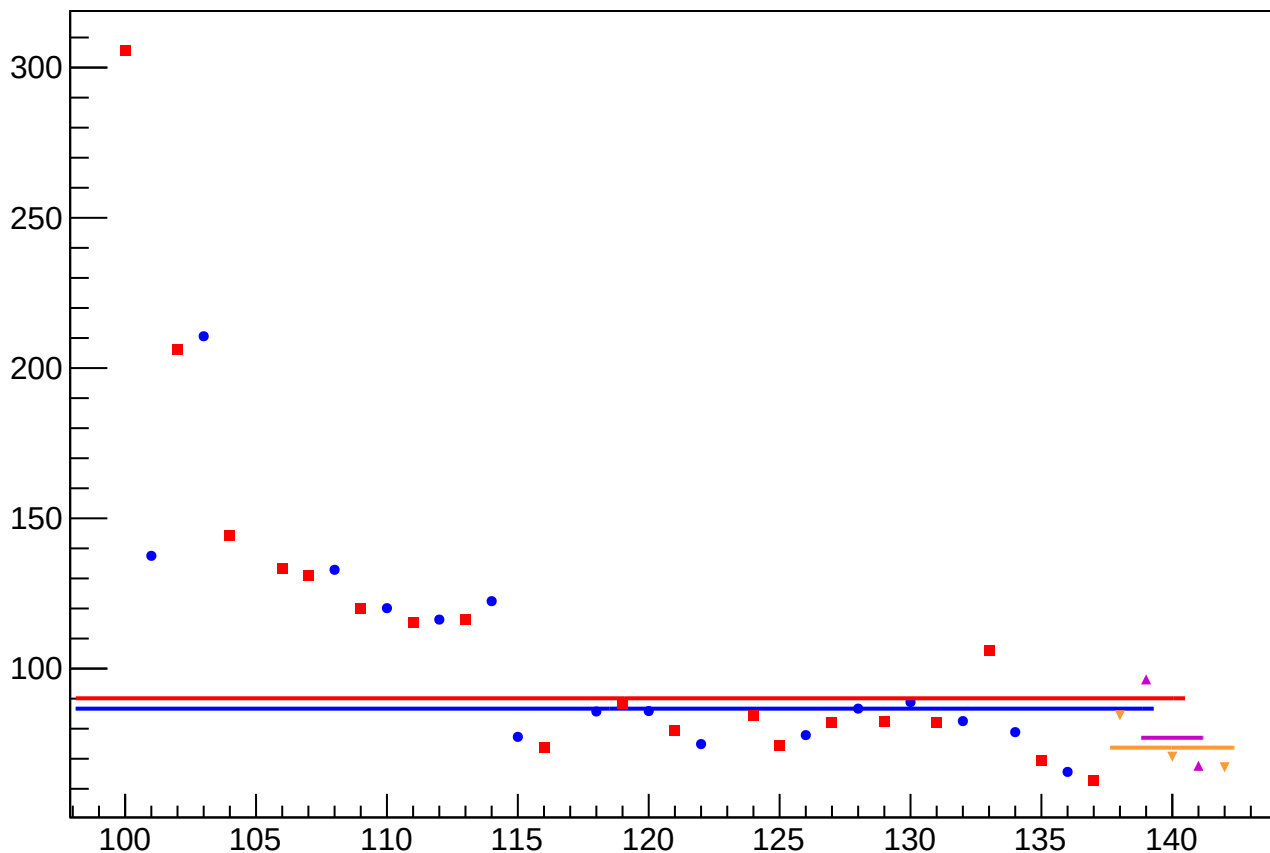
Right: 42.054 $\pm$ 24.294 χ^2 /NDF: 32.5/34

In: 51.545 $\pm$ 29.481 χ^2 /NDF:14.2/17

Out: 72.492 $\pm$ 29.009 χ^2 /NDF:22.6/21

All: 62.187 $\pm$ 20.677 χ^2 /NDF: 37.0/39

eigen_cor_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 86.666 $\pm$ 0.024 χ^2 /NDF: 1038816.2/15

Left Out: 73.697 $\pm$ 0.037 χ^2 /NDF:35305.7/2

Right Out: 90.116 $\pm$ 0.025 χ^2 /NDF: 1145283.2/18

Left In: 76.979 $\pm$ 0.042 χ^2 /NDF:101183.8/1

Left: 75.120 $\pm$ 0.028 χ^2 /NDF: 139900.2/4

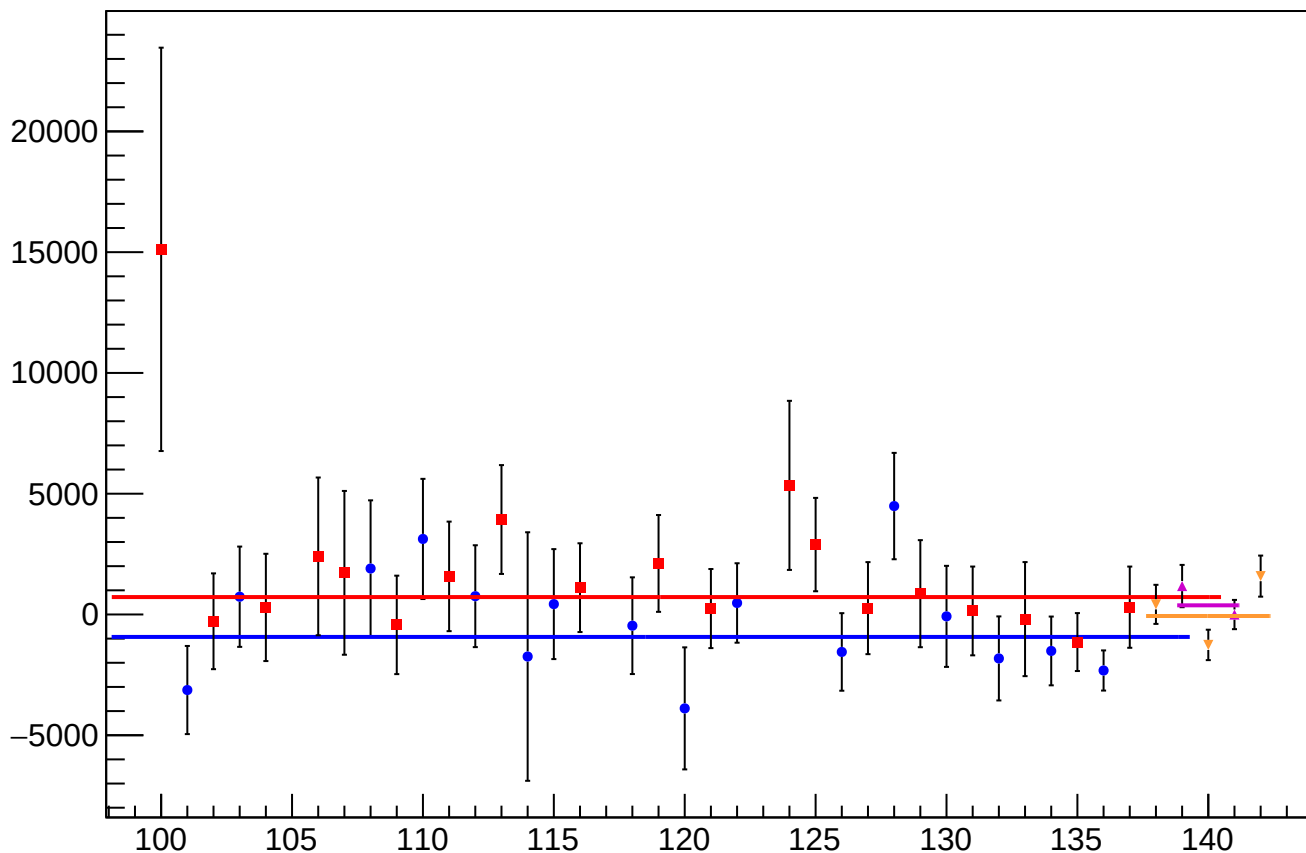
Right: 88.342 $\pm$ 0.017 χ^2 /NDF: 2194173.3/34

In: 84.313 $\pm$ 0.021 χ^2 /NDF:1179709.1/17

Out: 85.071 $\pm$ 0.021 χ^2 /NDF:1316970.1/21

All: 84.698 $\pm$ 0.015 χ^2 /NDF: 2497350.0/39

asym_sam_3726_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -929.788+/-440.894 χ^2/NDF : 18.5/15

Left Out: -63.398+/-428.966 χ^2/NDF : 7.7/2

Right Out: 720.600+/-468.540 χ^2/NDF : 12.5/18

Left In: 378.677+/-498.034 χ^2/NDF : 1.2/1

Left: 124.884+/-325.024 χ^2/NDF : 9.4/4

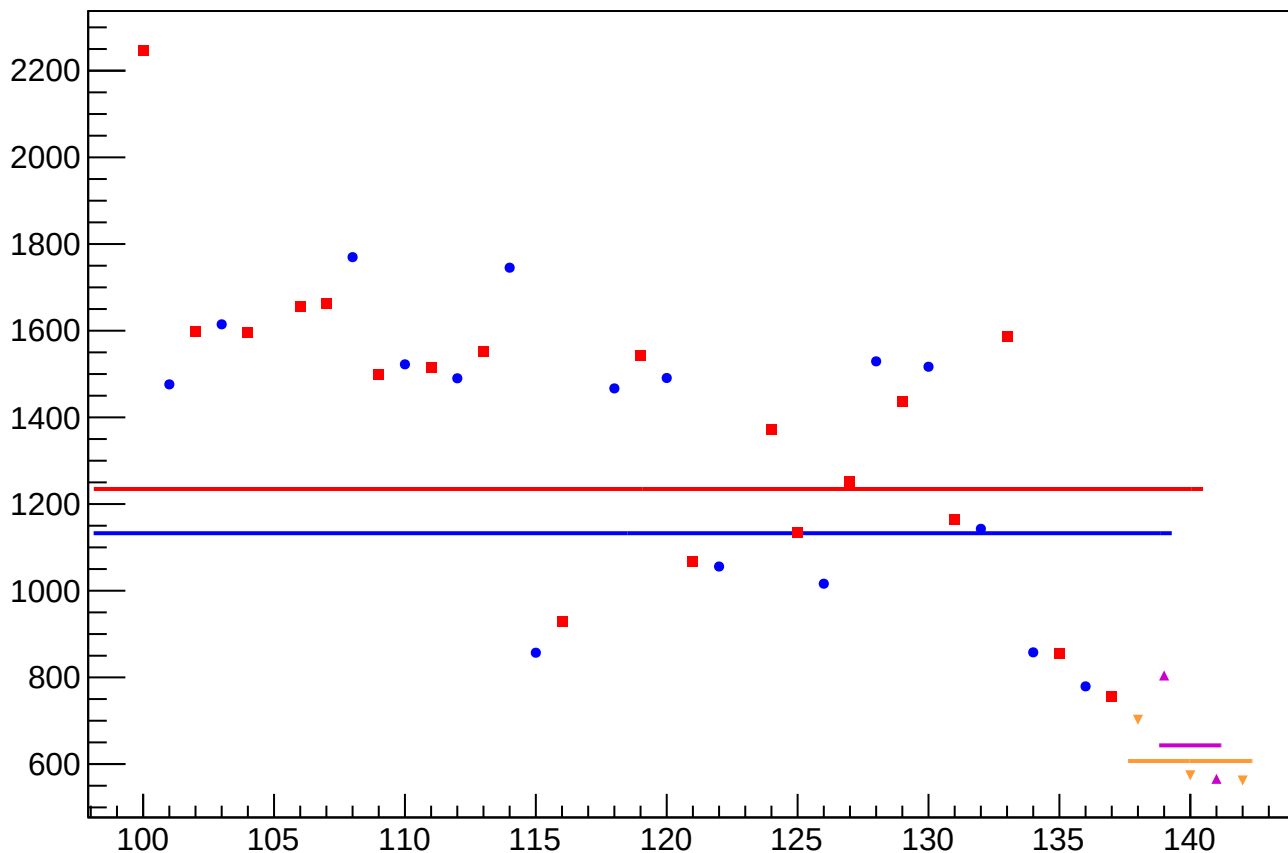
Right: -154.717+/-321.088 χ^2/NDF : 37.6/34

In: -354.890+/-330.121 χ^2/NDF : 23.6/17

Out: 294.099+/-316.392 χ^2/NDF : 21.8/21

All: -16.620+/-228.422 χ^2/NDF : 47.4/39

asym_sam_3726_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1132.689 $\pm$ 0.312 χ^2/NDF : 1124187.2/15

Left Out: 606.998 $\pm$ 0.303 χ^2/NDF : 38832.3/2

Right Out: 1234.709 $\pm$ 0.331 χ^2/NDF : 876272.4/18

Left In: 643.133 $\pm$ 0.352 χ^2/NDF : 100314.2/1

Left: 622.388 $\pm$ 0.230 χ^2/NDF : 145191.0/4

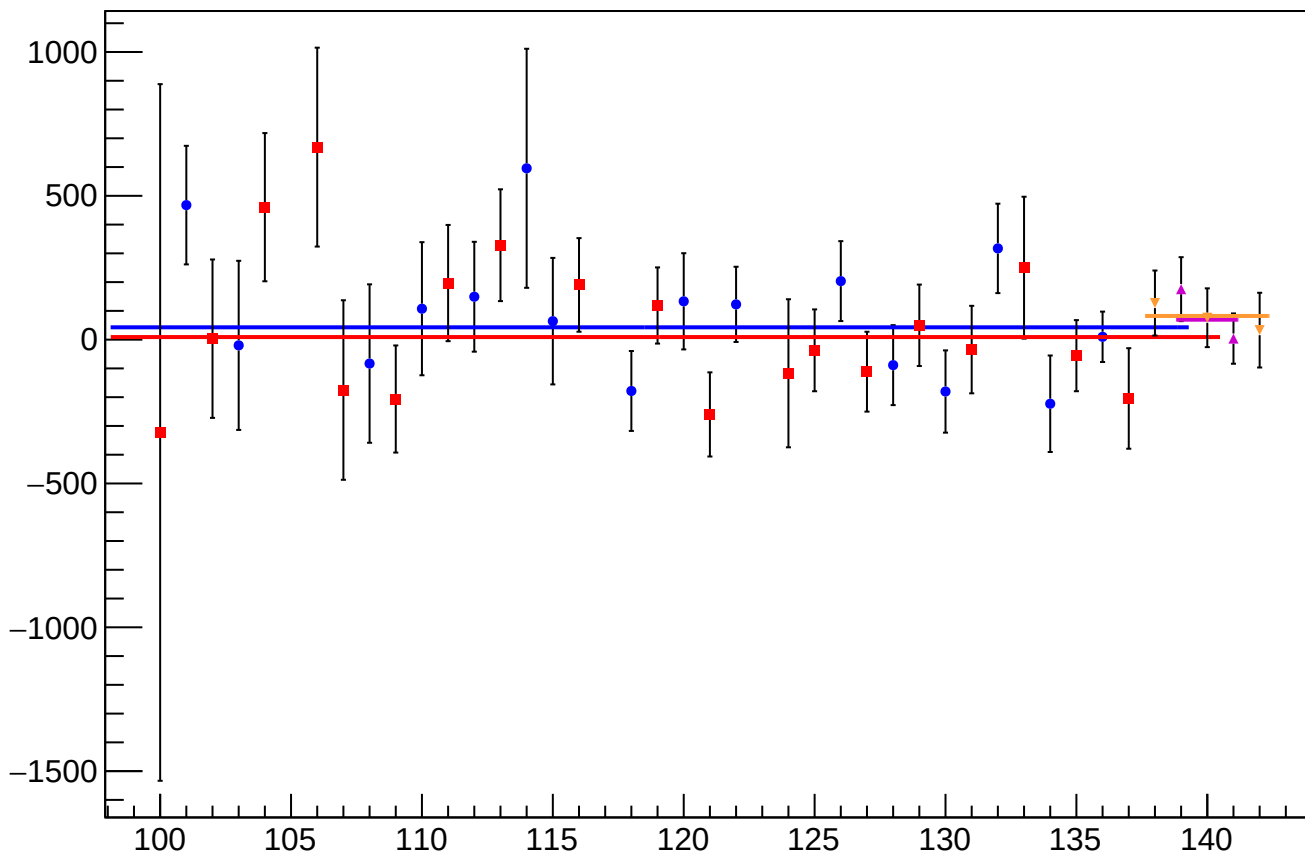
Right: 1180.601 $\pm$ 0.227 χ^2/NDF : 2050749.6/34

In: 917.594 $\pm$ 0.233 χ^2/NDF : 2307915.2/17

Out: 893.229 $\pm$ 0.224 χ^2/NDF : 2867918.3/21

All: 904.895 $\pm$ 0.162 χ^2/NDF : 5181512.0/39

dit_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 42.914 $\pm$ 39.948 χ^2 /NDF: 20.3/15

Left Out: 82.400 $\pm$ 65.471 χ^2 /NDF:0.3/2

Right Out: 8.989 $\pm$ 41.060 χ^2 /NDF: 21.3/18

Left In: 69.390 $\pm$ 68.733 χ^2 /NDF:1.5/1

Left: 76.211 $\pm$ 47.406 χ^2 /NDF: 1.8/4

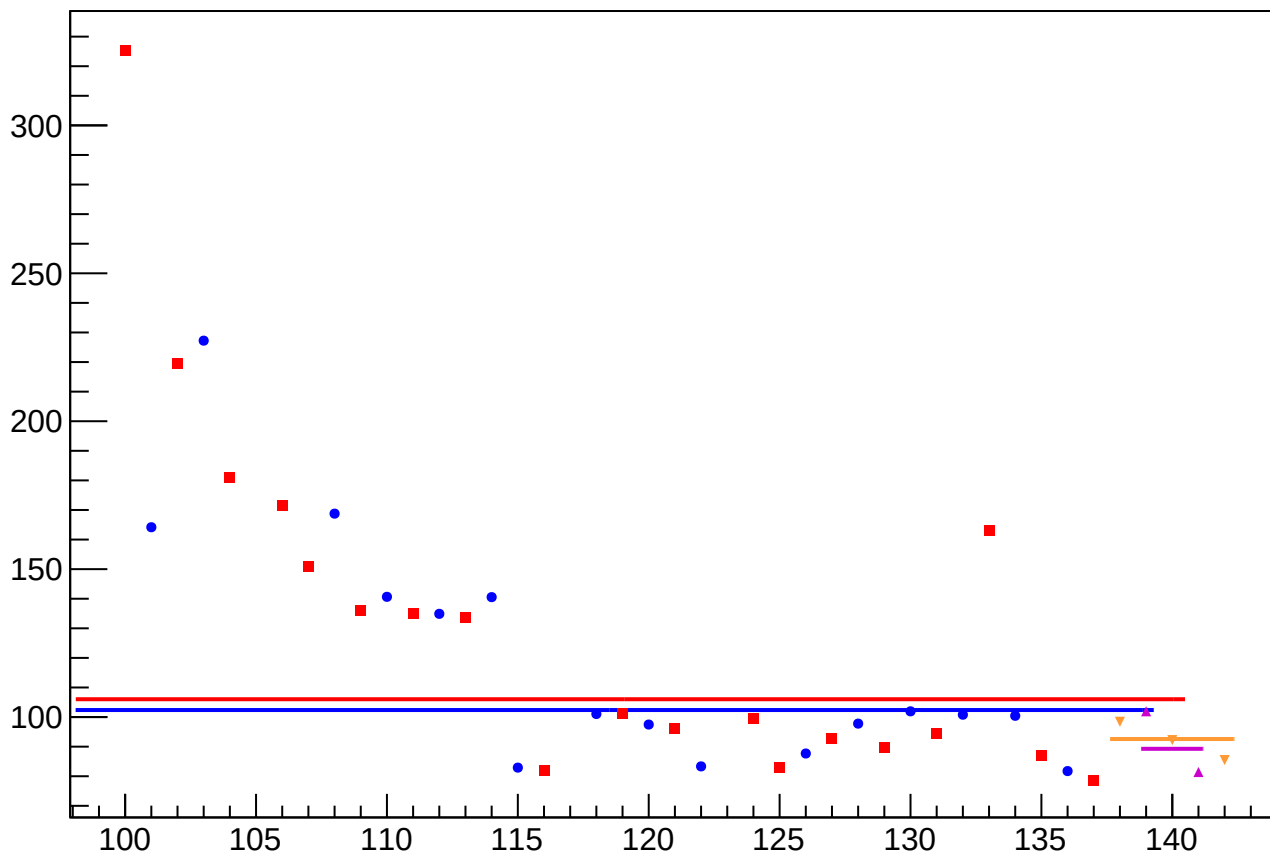
Right: 26.417 $\pm$ 28.632 χ^2 /NDF: 42.0/34

In: 49.600 $\pm$ 34.538 χ^2 /NDF:21.9/17

Out: 29.711 $\pm$ 34.785 χ^2 /NDF:22.5/21

All: 39.726 $\pm$ 24.509 χ^2 /NDF: 44.6/39

dit_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 102.378 $\pm$ 0.028 χ^2 /NDF: 982311.5/15

Left Out: 92.577 $\pm$ 0.046 χ^2 /NDF: 11351.0/2

Right Out: 106.032 $\pm$ 0.029 χ^2 /NDF: 1191294.0/18

Left In: 89.271 $\pm$ 0.049 χ^2 /NDF: 42155.3/1

Left: 91.004 $\pm$ 0.034 χ^2 /NDF: 55931.6/4

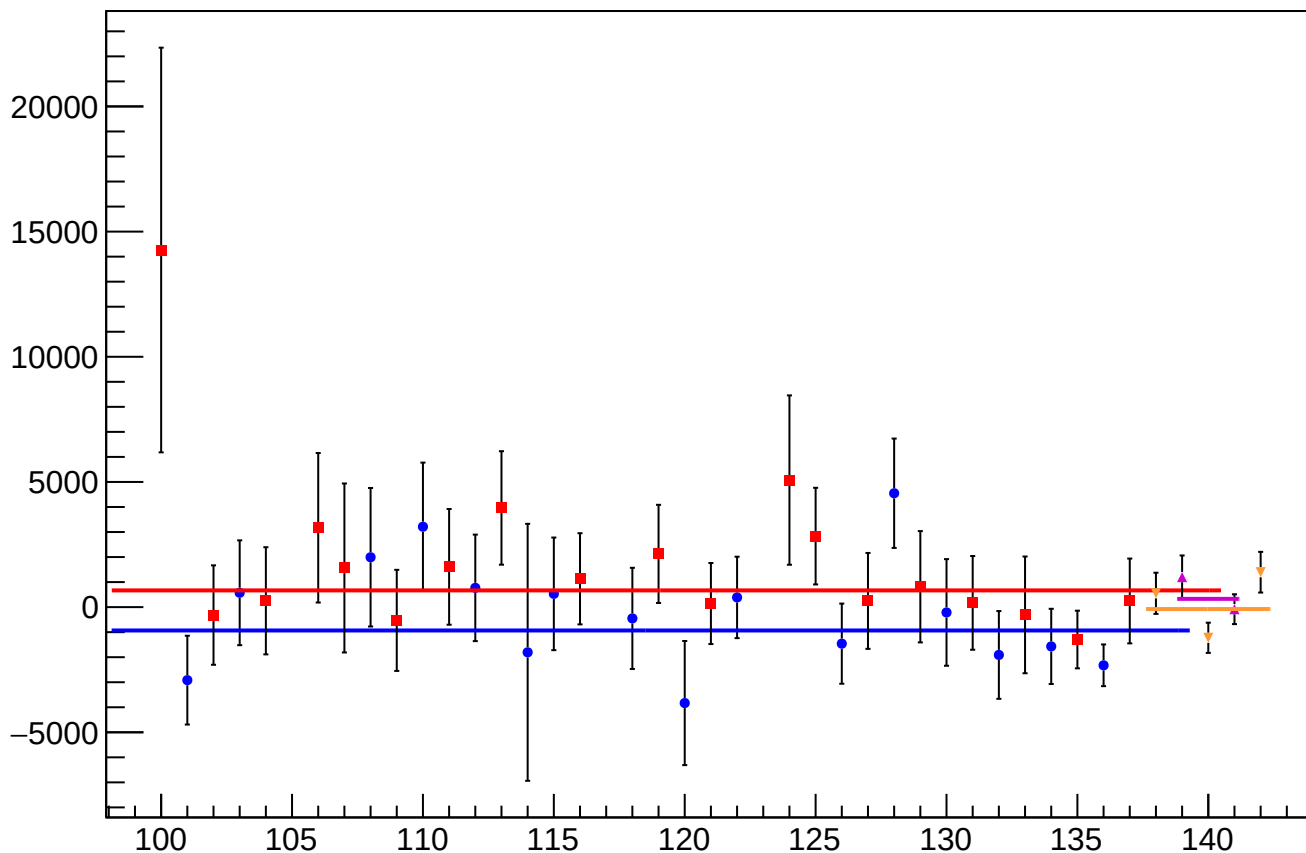
Right: 104.155 $\pm$ 0.020 χ^2 /NDF: 2181742.7/34

In: 99.069 $\pm$ 0.024 χ^2 /NDF: 1078831.7/17

Out: 102.234 $\pm$ 0.025 χ^2 /NDF: 1263275.2/21

All: 100.640 $\pm$ 0.017 χ^2 /NDF: 2350446.2/39

asym_sam_3726_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -932.381+/-442.724 χ^2/NDF : 18.5/15

Left Out: -76.836+/-417.412 χ^2/NDF : 7.5/2

Right Out: 668.521+/-463.213 χ^2/NDF : 13.5/18

Left In: 329.991+/-490.452 χ^2/NDF : 1.5/1

Left: 94.058+/-317.874 χ^2/NDF : 9.4/4

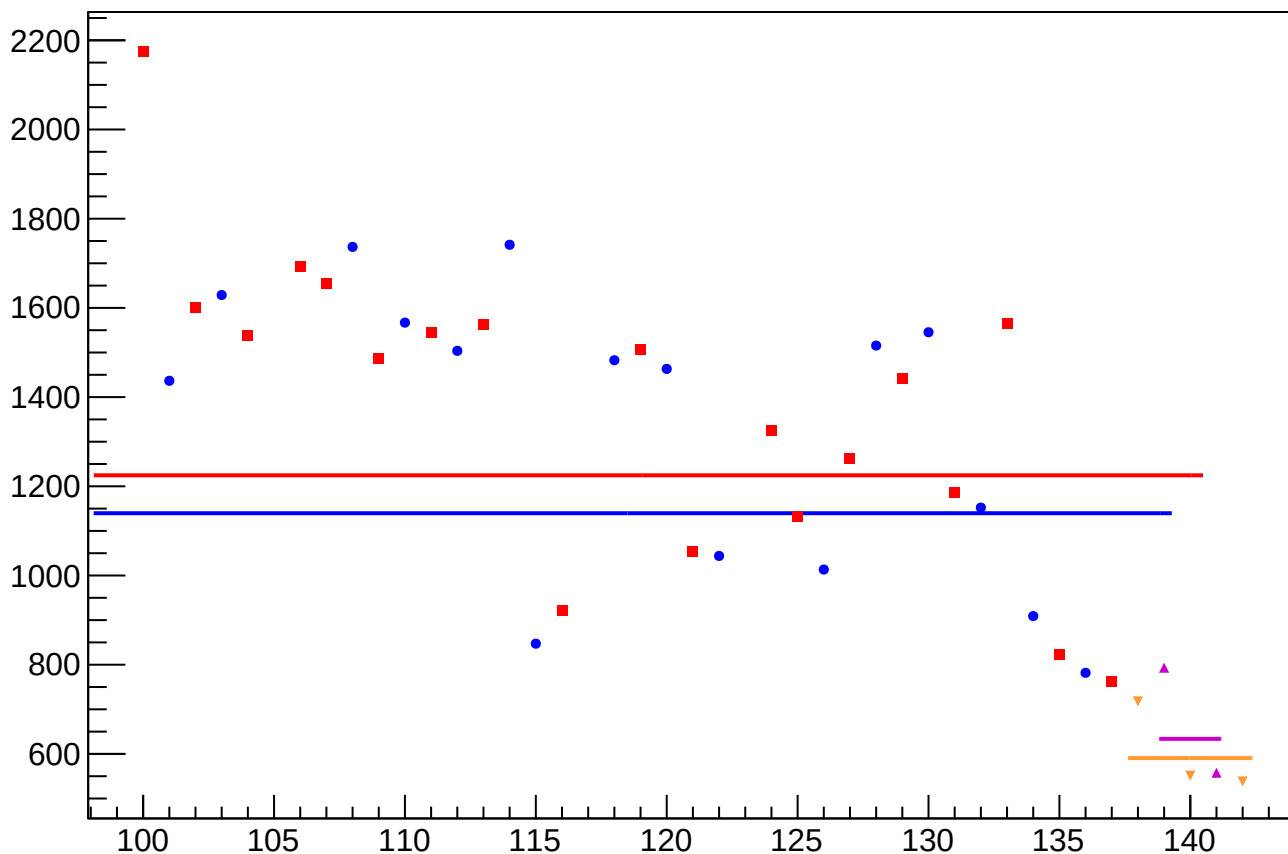
Right: -168.117+/-320.052 χ^2/NDF : 38.2/34

In: -365.591+/-328.635 χ^2/NDF : 23.6/17

Out: 257.181+/-310.086 χ^2/NDF : 22.4/21

All: -36.134+/-225.537 χ^2/NDF : 47.9/39

asym_sam_3726_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1139.658+/-0.313 χ^2/NDF : 1093410.3/15

Left Out: 590.673+/-0.295 χ^2/NDF : 64626.4/2

Right Out: 1224.637+/-0.328 χ^2/NDF : 922388.4/18

Left In: 633.724+/-0.347 χ^2/NDF : 100693.4/1

Left: 608.757+/-0.225 χ^2/NDF : 174256.6/4

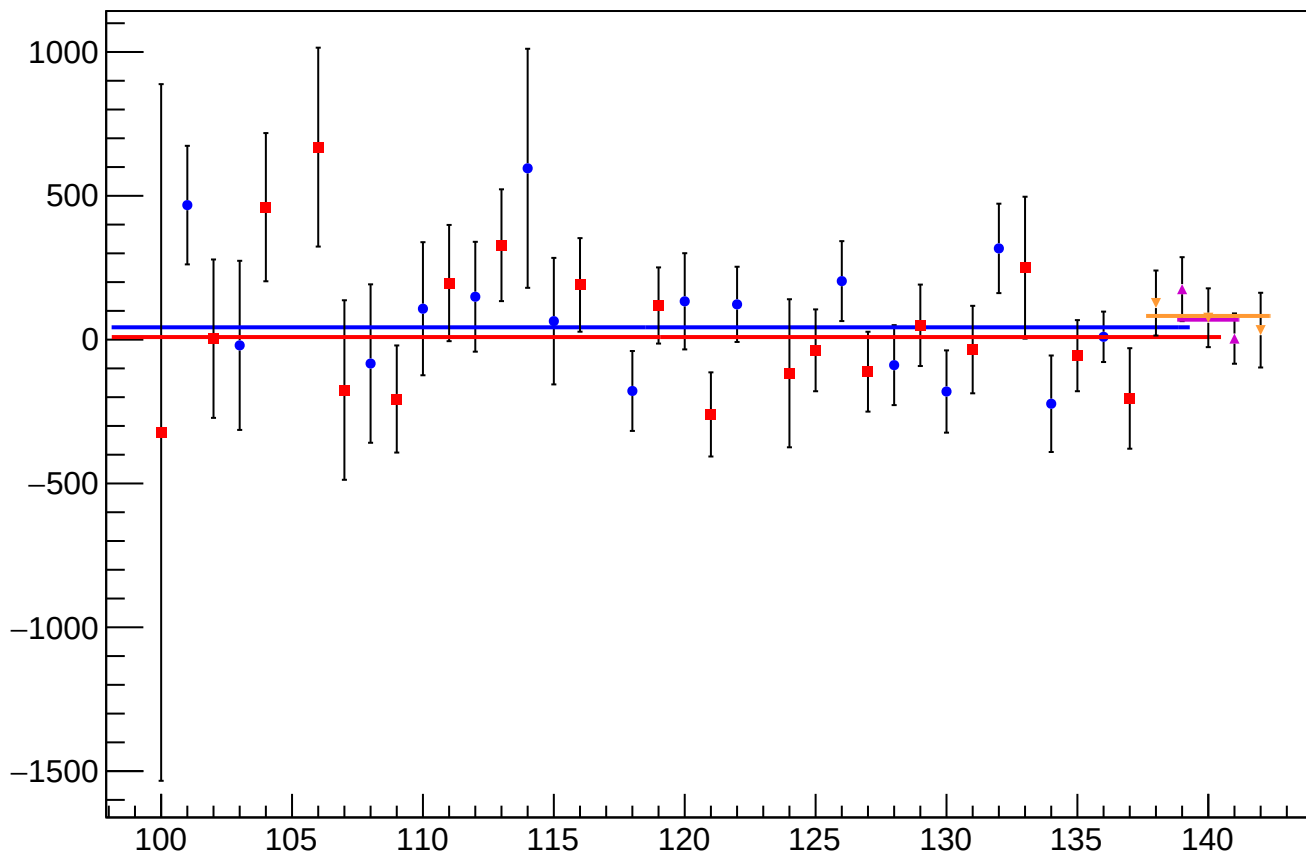
Right: 1180.226+/-0.226 χ^2/NDF : 2050976.5/34

In: 912.500+/-0.232 χ^2/NDF : 2366796.9/17

Out: 874.771+/-0.219 χ^2/NDF : 3054463.4/21

All: 892.541+/-0.159 χ^2/NDF : 5435204.7/39

eigen_dit_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 42.914 $\pm$ 39.948 χ^2 /NDF: 20.3/15

Left Out: 82.398 $\pm$ 65.471 χ^2 /NDF:0.3/2

Right Out: 8.986 $\pm$ 41.060 χ^2 /NDF: 21.3/18

Left In: 69.391 $\pm$ 68.733 χ^2 /NDF:1.5/1

Left: 76.211 $\pm$ 47.406 χ^2 /NDF: 1.8/4

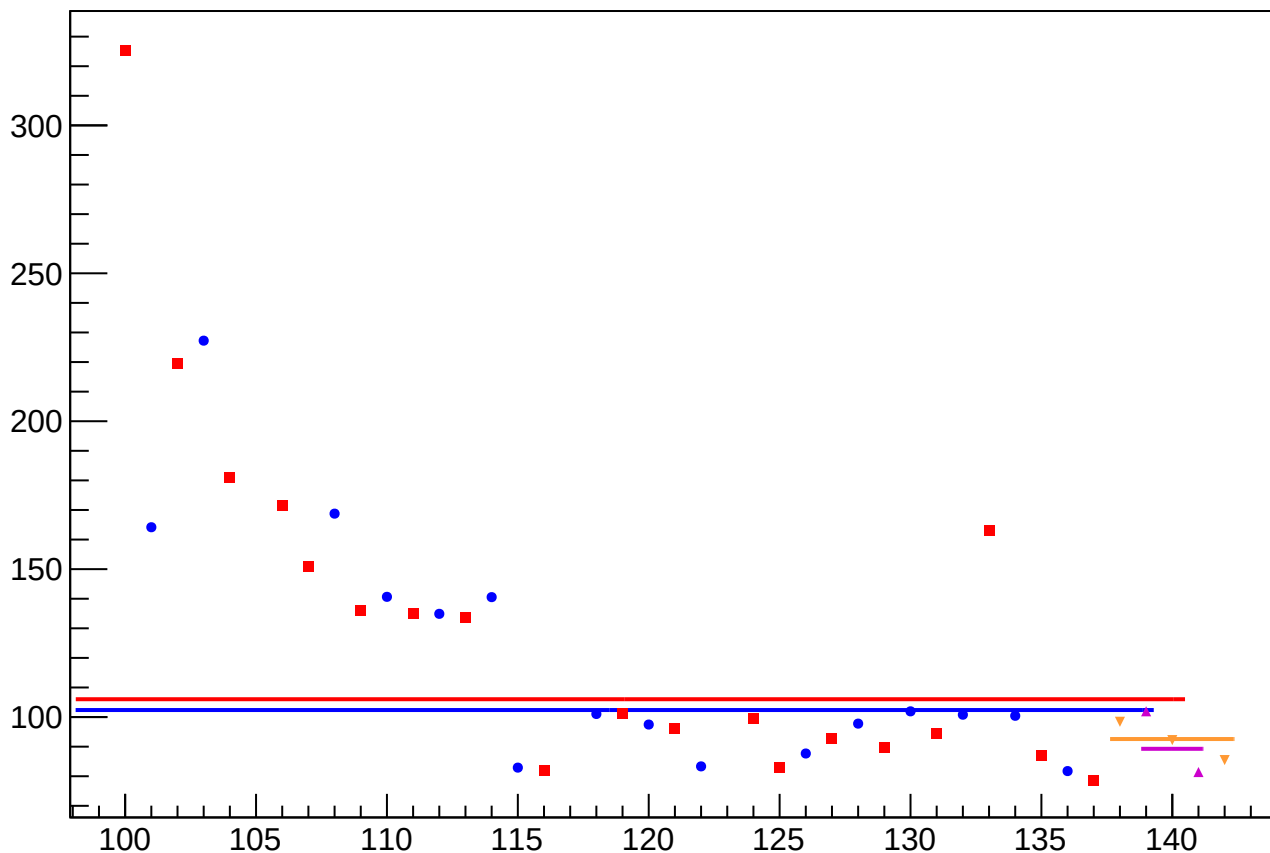
Right: 26.416 $\pm$ 28.632 χ^2 /NDF: 42.0/34

In: 49.600 $\pm$ 34.538 χ^2 /NDF:21.9/17

Out: 29.709 $\pm$ 34.785 χ^2 /NDF:22.5/21

All: 39.725 $\pm$ 24.509 χ^2 /NDF: 44.6/39

eigen_dit_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 102.378+/-0.028 χ^2/NDF : 982307.0/15

Left Out: 92.577+/-0.046 χ^2/NDF : 11350.9/2

Right Out: 106.032+/-0.029 χ^2/NDF : 1191296.9/18

Left In: 89.272+/-0.049 χ^2/NDF : 42154.7/1

Left: 91.005+/-0.034 χ^2/NDF : 55930.3/4

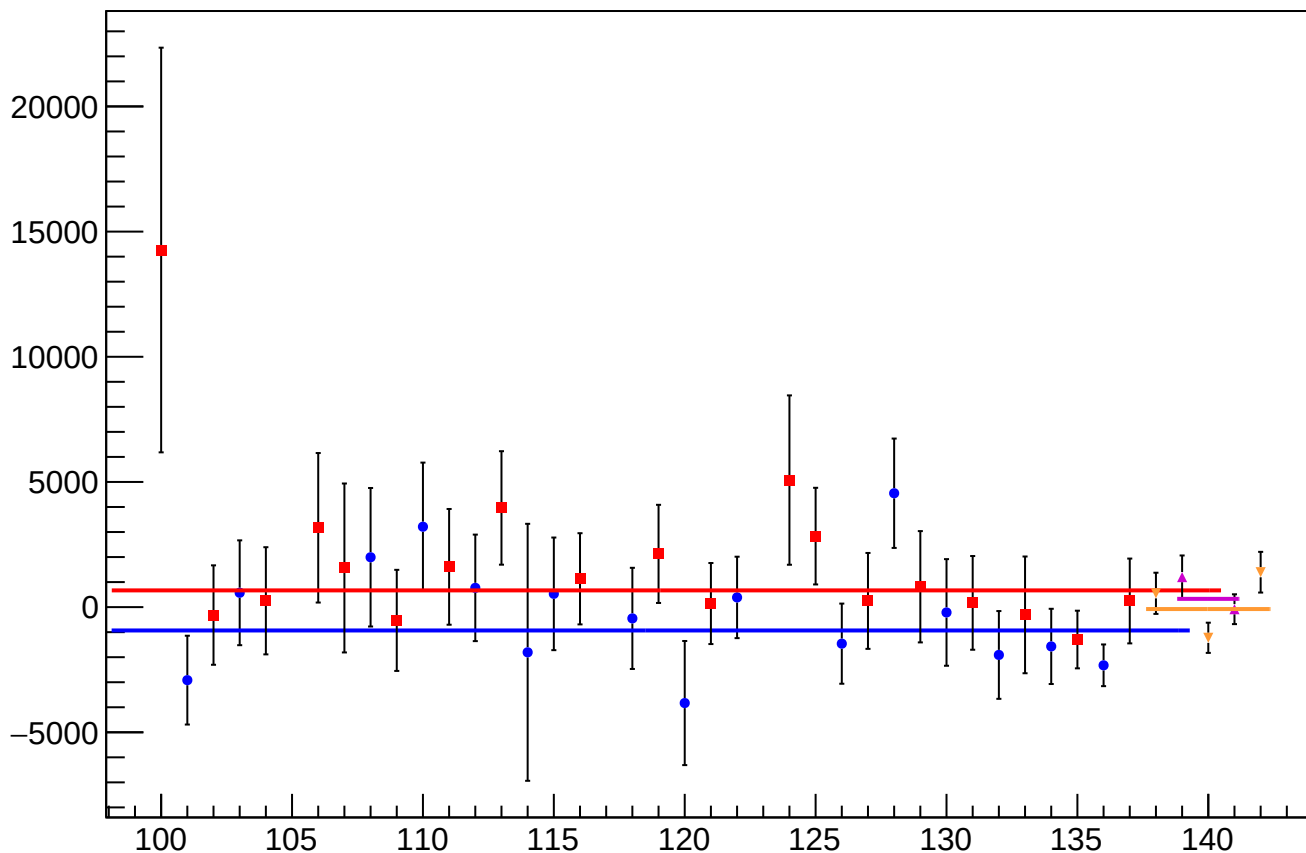
Right: 104.155+/-0.020 χ^2/NDF : 2181741.7/34

In: 99.069+/-0.024 χ^2/NDF : 1078822.1/17

Out: 102.234+/-0.025 χ^2/NDF : 1263277.7/21

All: 100.640+/-0.017 χ^2/NDF : 2350439.1/39

asym_sam_3726_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -932.377 ± 442.724 $\chi^2/\text{NDF}: 18.5/15$

Left Out: -76.838 ± 417.412 $\chi^2/\text{NDF}: 7.5/2$

Right Out: 668.522 ± 463.212 $\chi^2/\text{NDF}: 13.5/18$

Left In: 329.993 ± 490.452 $\chi^2/\text{NDF}: 1.5/1$

Left: 94.057 ± 317.874 $\chi^2/\text{NDF}: 9.4/4$

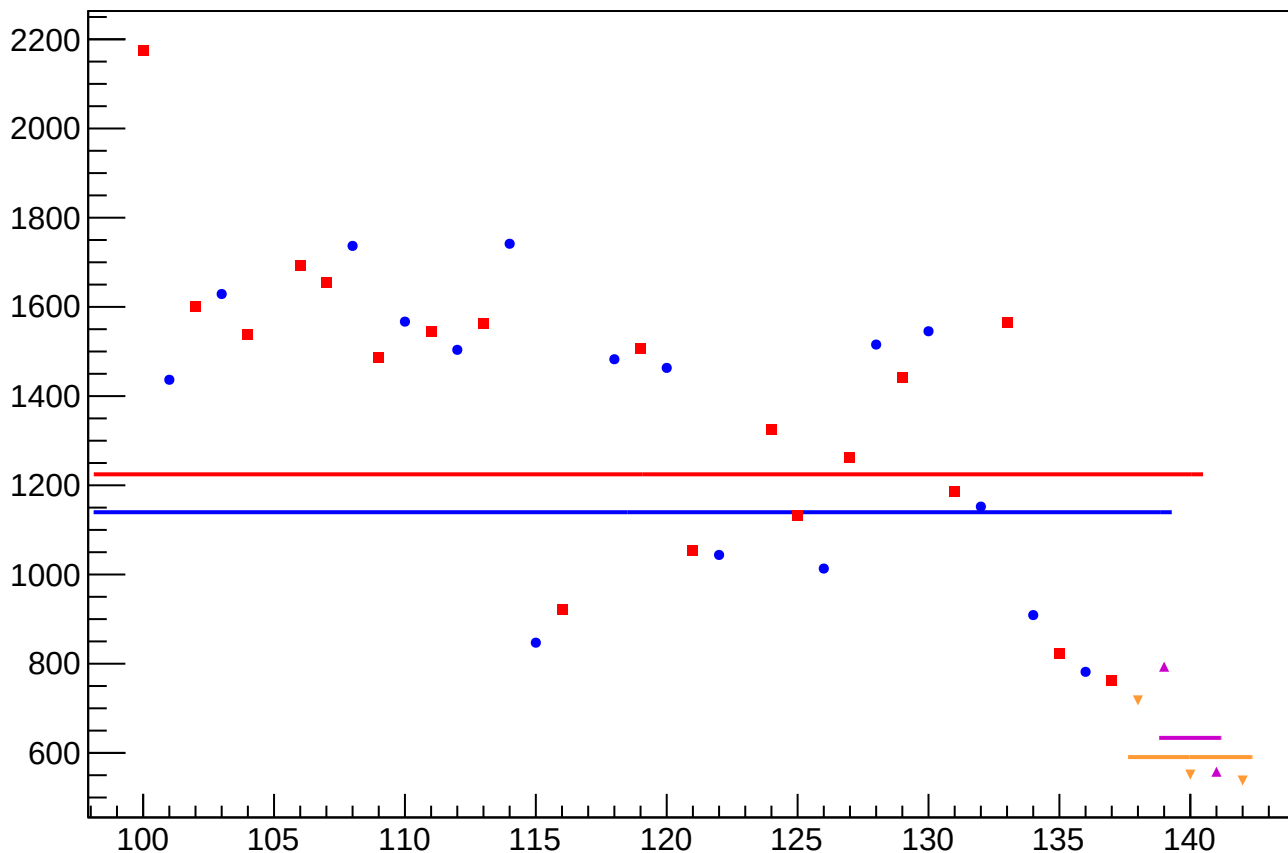
Right: -168.114 ± 320.051 $\chi^2/\text{NDF}: 38.2/34$

In: -365.589 ± 328.635 $\chi^2/\text{NDF}: 23.6/17$

Out: 257.181 ± 310.086 $\chi^2/\text{NDF}: 22.4/21$

All: -36.133 ± 225.536 $\chi^2/\text{NDF}: 47.9/39$

asym_sam_3726_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1139.656 $\pm$ 0.313 χ^2 /NDF: 1093397.5/15

Left Out: 590.673 $\pm$ 0.295 χ^2 /NDF: 64624.9/2

Right Out: 1224.635 $\pm$ 0.328 χ^2 /NDF: 922378.0/18

Left In: 633.724 $\pm$ 0.347 χ^2 /NDF: 100691.8/1

Left: 608.757 $\pm$ 0.225 χ^2 /NDF: 174253.4/4

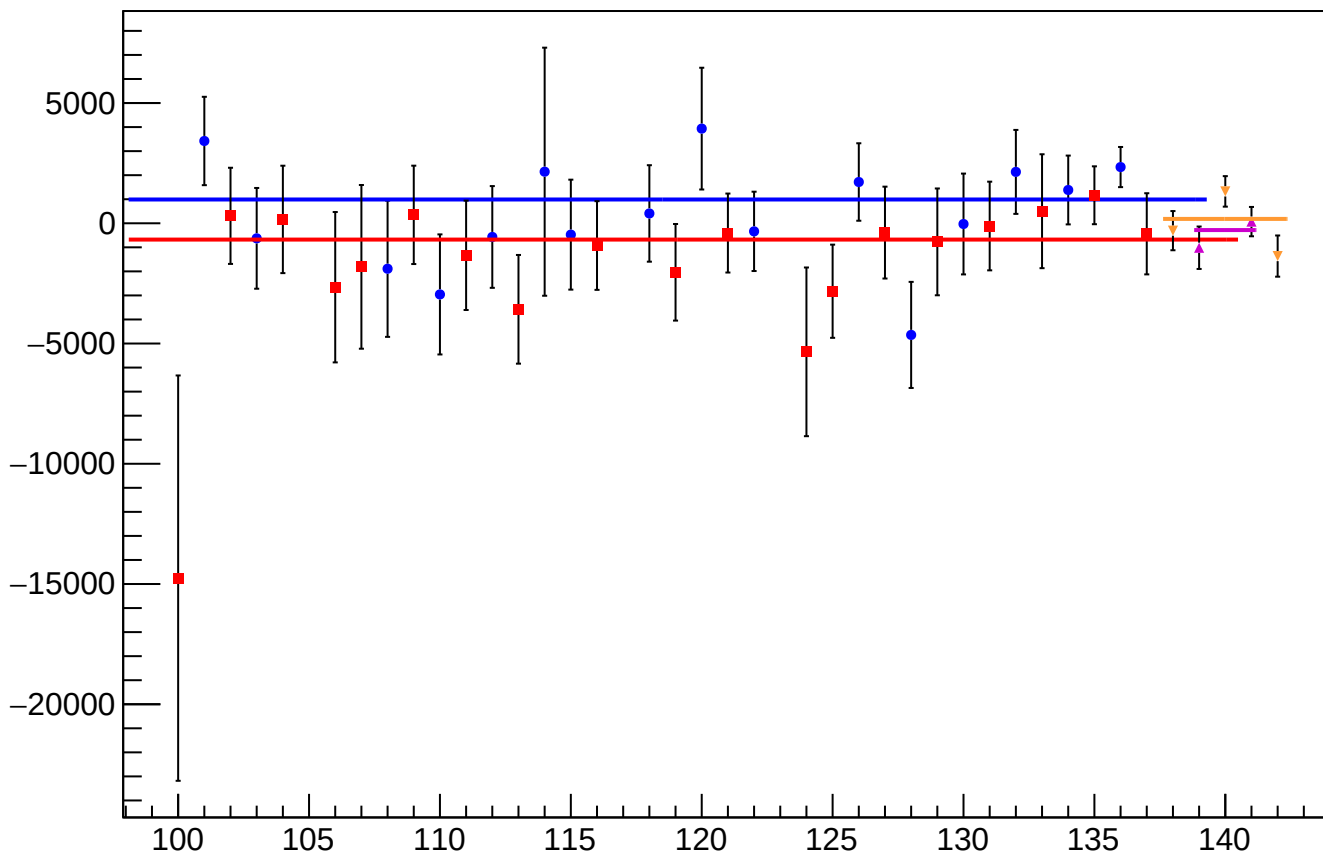
Right: 1180.225 $\pm$ 0.226 χ^2 /NDF: 2050952.9/34

In: 912.499 $\pm$ 0.232 χ^2 /NDF: 2366780.9/17

Out: 874.771 $\pm$ 0.219 χ^2 /NDF: 3054443.0/21

All: 892.540 $\pm$ 0.159 χ^2 /NDF: 5435168.0/39

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 989.322 $\pm$ 442.634 χ^2 /NDF: 19.0/15

Left Out: 181.770 $\pm$ 432.200 χ^2 /NDF:6.9/2

Right Out: -677.628 $\pm$ 469.652 χ^2 /NDF: 11.9/18

Left In: -282.033 $\pm$ 501.670 χ^2 /NDF:1.0/1

Left: -15.819 $\pm$ 327.441 χ^2 /NDF: 8.4/4

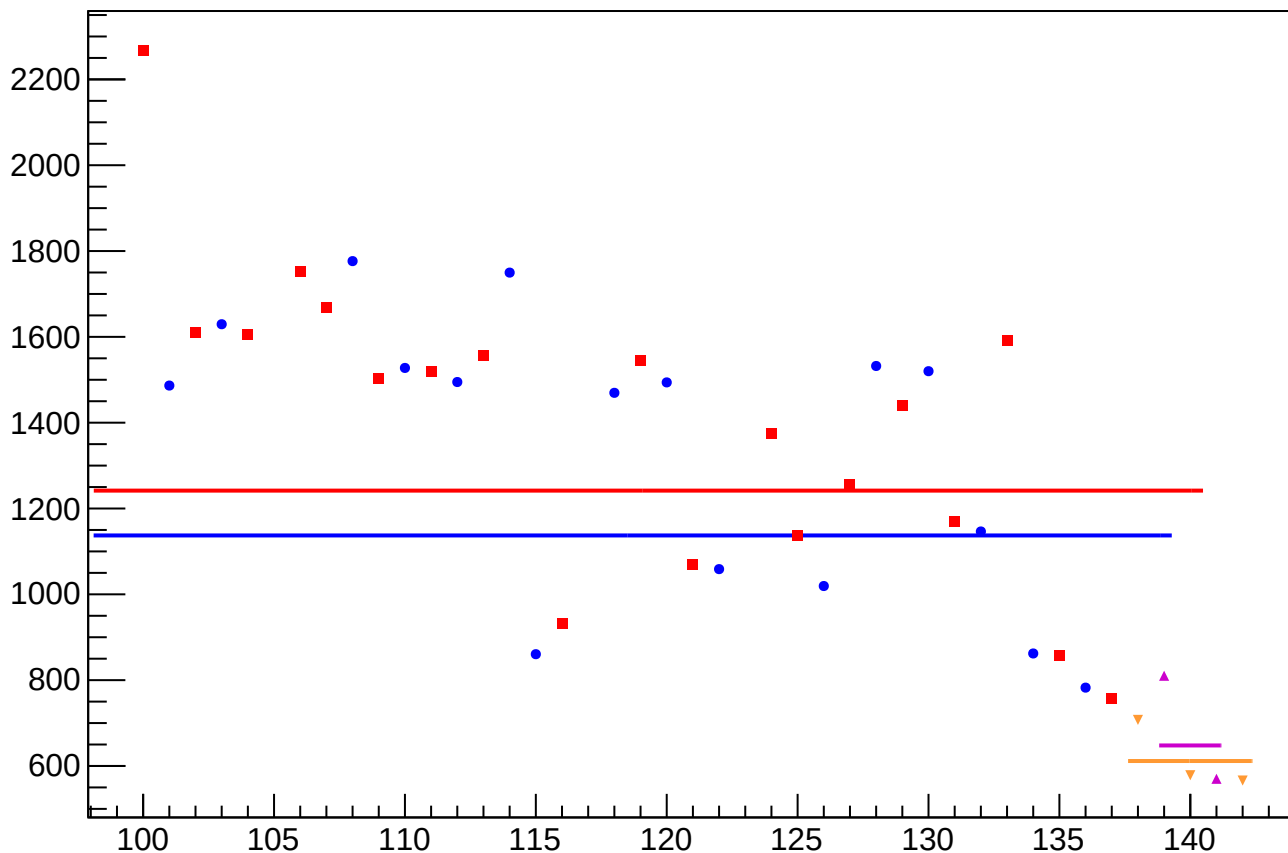
Right: 205.171 $\pm$ 322.118 χ^2 /NDF: 37.6/34

In: 432.818 $\pm$ 331.909 χ^2 /NDF:23.7/17

Out: -212.301 $\pm$ 318.029 χ^2 /NDF:20.6/21

All: 96.487 $\pm$ 229.631 χ^2 /NDF: 46.2/39

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1137.220+/-0.313 χ^2/NDF : 1123685.6/15

Left Out: 611.545+/-0.306 χ^2/NDF : 38769.9/2

Right Out: 1241.709+/-0.332 χ^2/NDF : 899417.9/18

Left In: 647.816+/-0.355 χ^2/NDF : 100265.5/1

Left: 626.997+/-0.232 χ^2/NDF : 145036.3/4

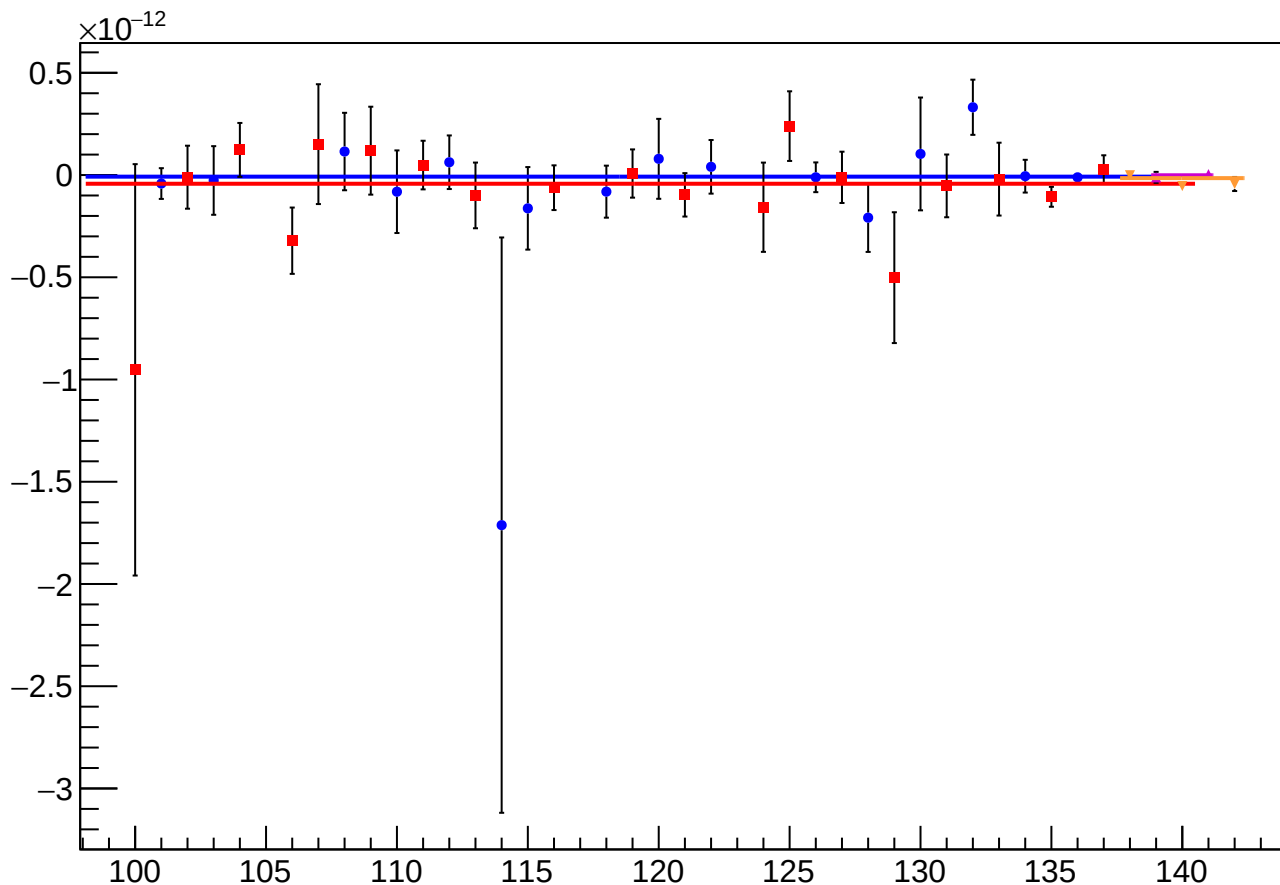
Right: 1186.373+/-0.228 χ^2/NDF : 2075531.5/34

In: 922.995+/-0.235 χ^2/NDF : 2294178.9/17

Out: 900.502+/-0.225 χ^2/NDF : 2887805.9/21

All: 911.269+/-0.162 χ^2/NDF : 5186773.4/39

asym_sam_3726_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 11.7/15

Left Out: -0.000+/-0.000 χ^2/NDF : 7.5/2

Right Out: -0.000+/-0.000 χ^2/NDF : 15.5/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.2/1

Left: -0.000+/-0.000 χ^2/NDF : 8.3/4

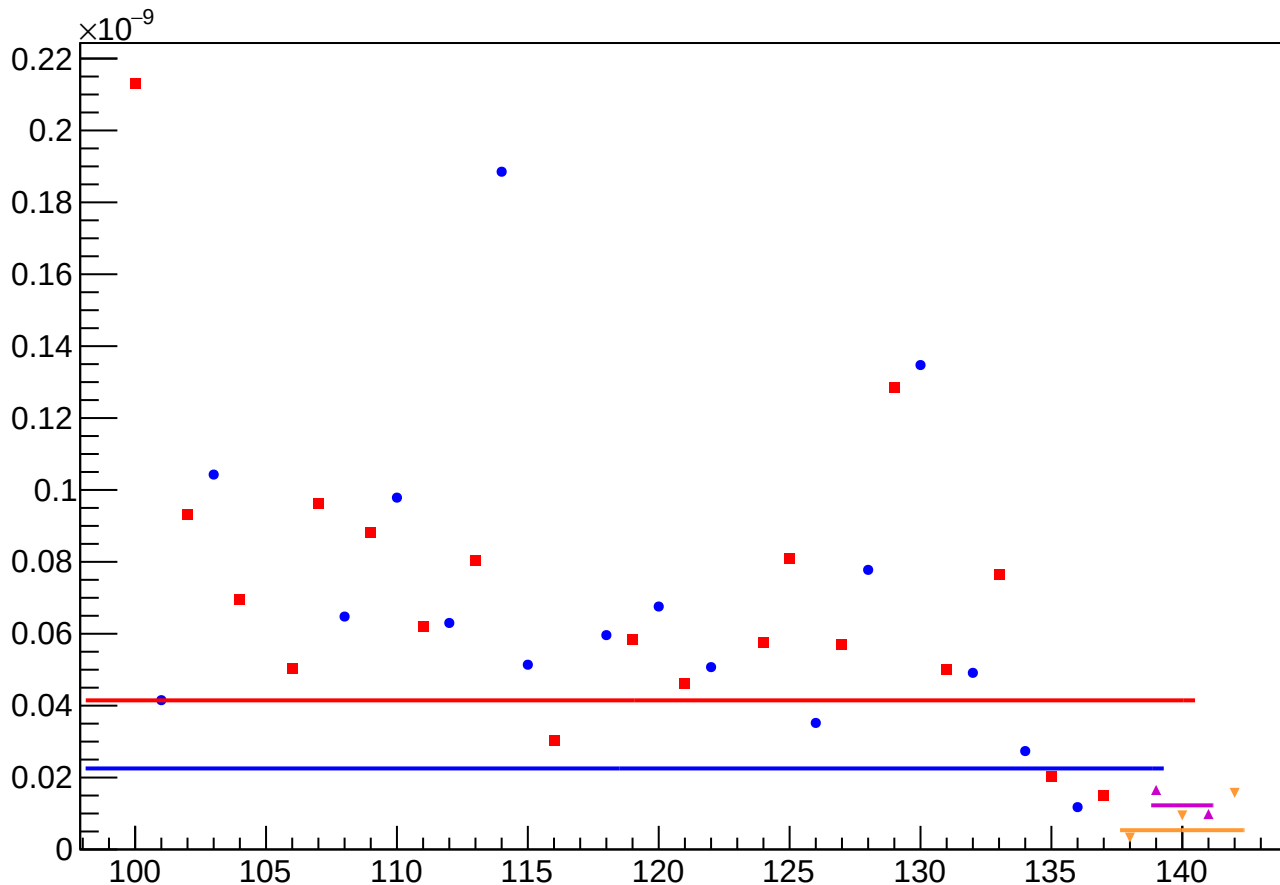
Right: -0.000+/-0.000 χ^2/NDF : 28.4/34

In: -0.000+/-0.000 χ^2/NDF : 12.0/17

Out: -0.000+/-0.000 χ^2/NDF : 24.0/21

All: -0.000+/-0.000 χ^2/NDF : 36.9/39

asym_sam_3726_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2852766.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 376779.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1847735.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 79975.2/1

Left: 0.000+/-0.000 χ^2/NDF : 747919.3/4

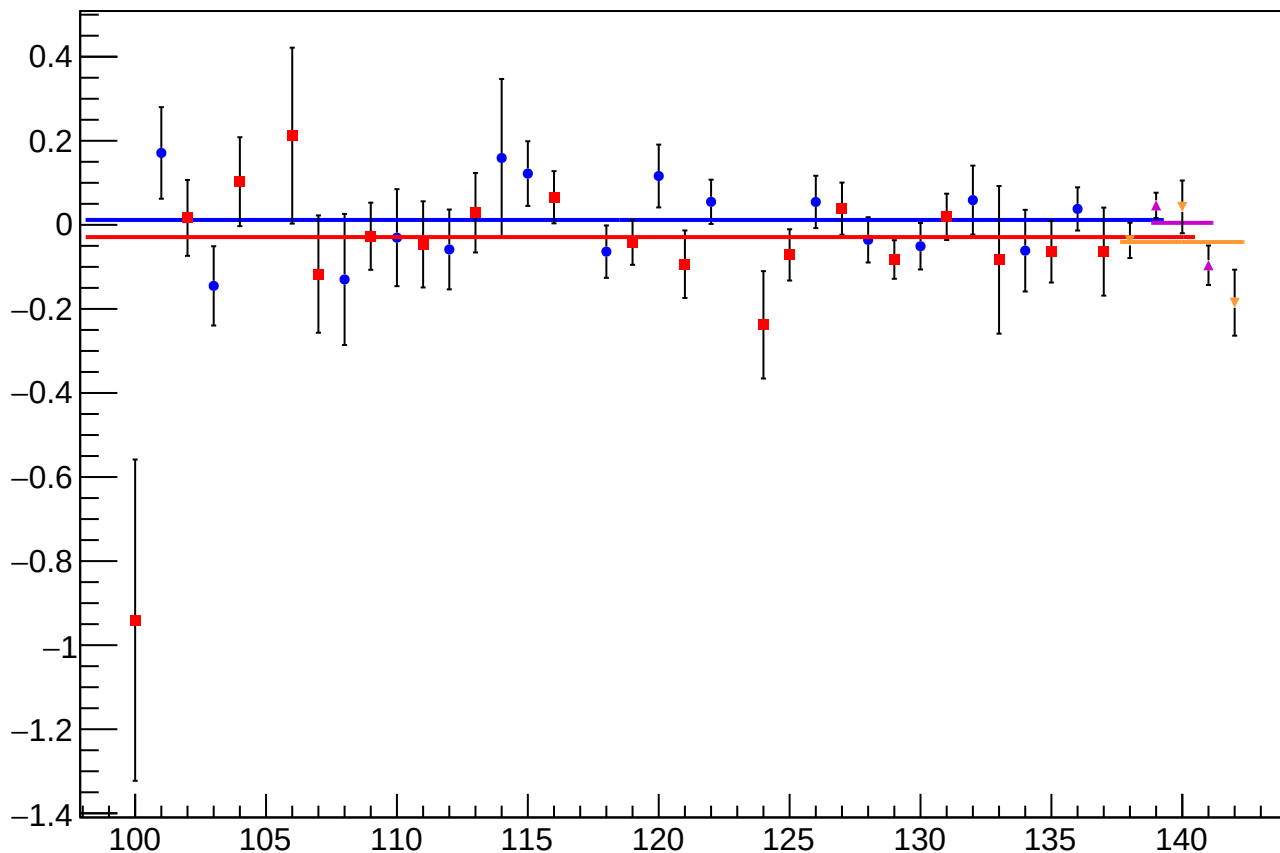
Right: 0.000+/-0.000 χ^2/NDF : 5394567.7/34

In: 0.000+/-0.000 χ^2/NDF : 3309035.3/17

Out: 0.000+/-0.000 χ^2/NDF : 5475835.3/21

All: 0.000+/-0.000 χ^2/NDF : 9502580.9/39

asym_sam_3726_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 ± 0.018 $\chi^2/\text{NDF}: 16.9/15$

Left Out: -0.041 ± 0.032 $\chi^2/\text{NDF}: 5.2/2$

Right Out: -0.029 ± 0.018 $\chi^2/\text{NDF}: 19.5/18$

Left In: 0.005 ± 0.025 $\chi^2/\text{NDF}: 6.5/1$

Left: -0.013 ± 0.020 $\chi^2/\text{NDF}: 13.0/4$

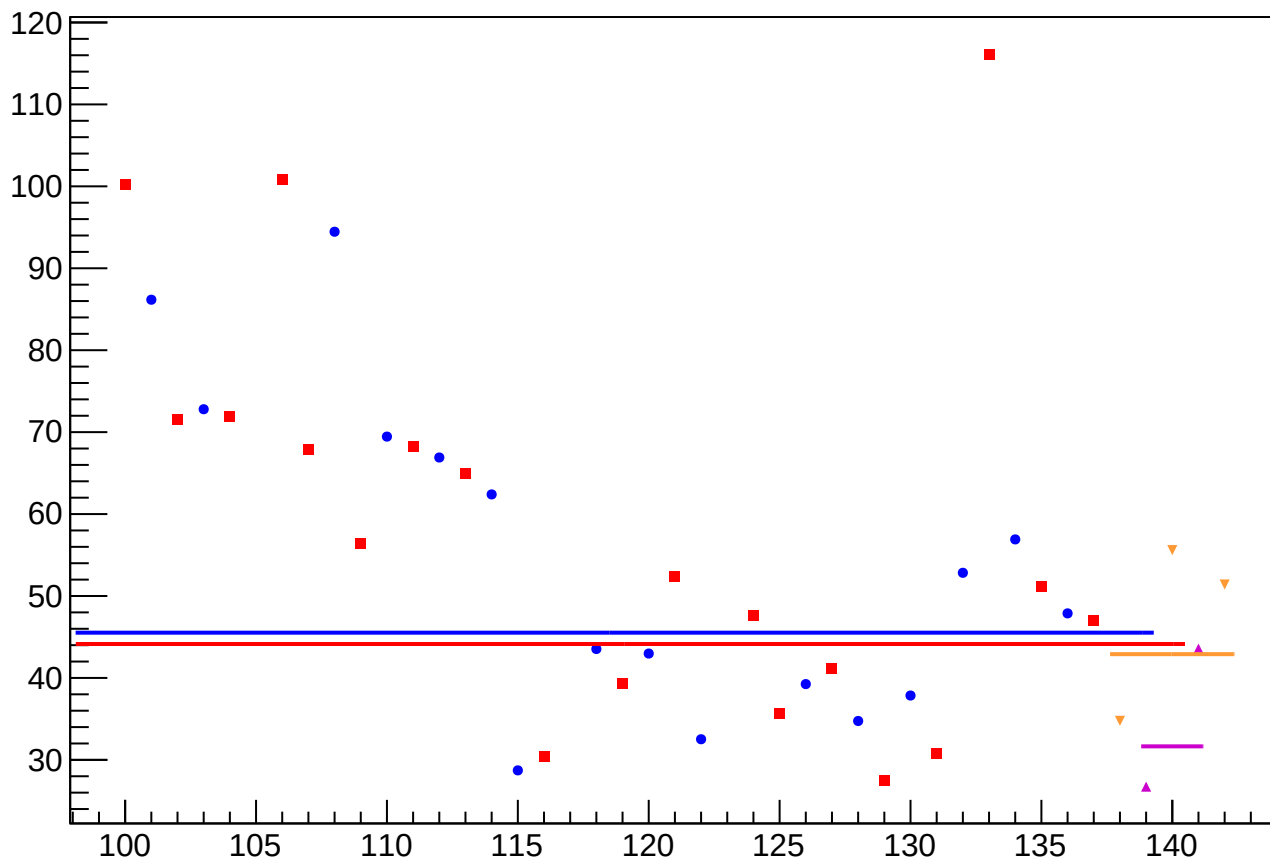
Right: -0.009 ± 0.013 $\chi^2/\text{NDF}: 38.9/34$

In: 0.009 ± 0.015 $\chi^2/\text{NDF}: 23.4/17$

Out: -0.032 ± 0.016 $\chi^2/\text{NDF}: 24.8/21$

All: -0.010 ± 0.011 $\chi^2/\text{NDF}: 51.9/39$

asym_sam_3726_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 45.525+/-0.013 χ^2/NDF : 1253967.4/15

Left Out: 42.902+/-0.023 χ^2/NDF : 180435.9/2

Right Out: 44.141+/-0.013 χ^2/NDF : 1743430.9/18

Left In: 31.649+/-0.018 χ^2/NDF : 182608.8/1

Left: 36.003+/-0.014 χ^2/NDF : 515623.9/4

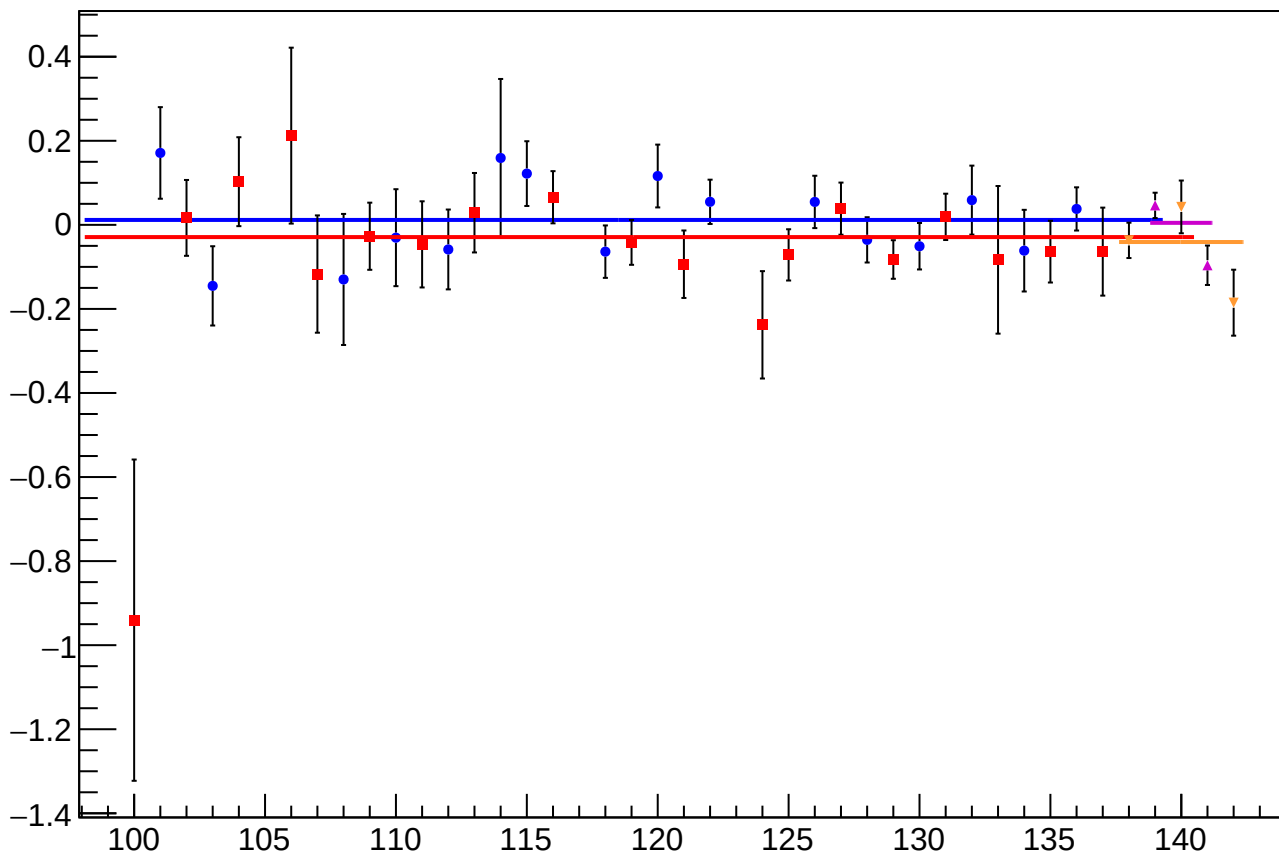
Right: 44.816+/-0.009 χ^2/NDF : 3003242.5/34

In: 40.763+/-0.010 χ^2/NDF : 1830421.3/17

Out: 43.845+/-0.011 χ^2/NDF : 1926163.5/21

All: 42.227+/-0.008 χ^2/NDF : 3797550.0/39

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.018 χ^2 /NDF: 16.9/15

Left Out: -0.041 $\pm$ 0.032 χ^2 /NDF: 5.2/2

Right Out: -0.029 $\pm$ 0.018 χ^2 /NDF: 19.5/18

Left In: 0.005 $\pm$ 0.025 χ^2 /NDF: 6.5/1

Left: -0.013 $\pm$ 0.020 χ^2 /NDF: 13.0/4

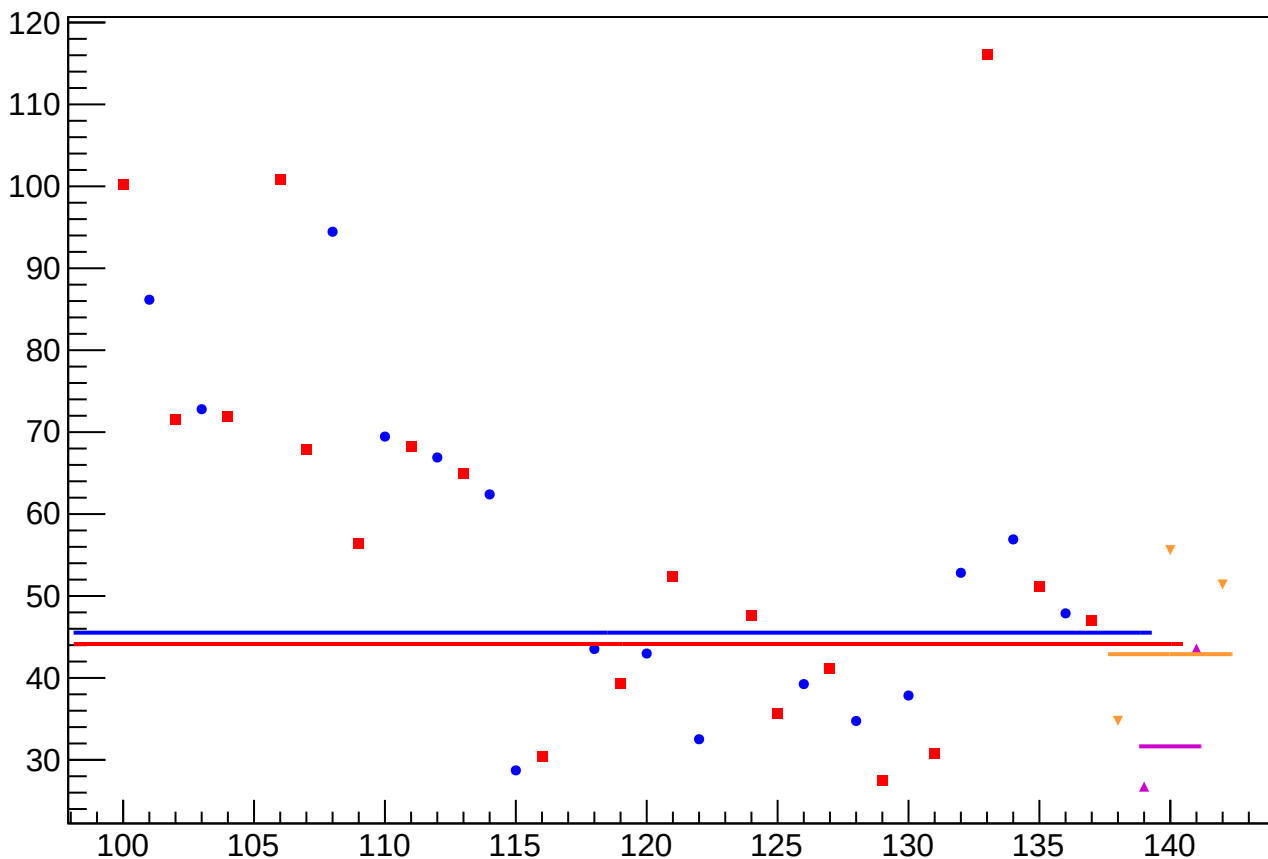
Right: -0.009 $\pm$ 0.013 χ^2 /NDF: 38.9/34

In: 0.009 $\pm$ 0.015 χ^2 /NDF: 23.4/17

Out: -0.032 $\pm$ 0.016 χ^2 /NDF: 24.8/21

All: -0.010 $\pm$ 0.011 χ^2 /NDF: 51.9/39

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 45.525+/-0.013 χ^2/NDF : 1253967.4/15

Left Out: 42.902+/-0.023 χ^2/NDF :180435.9/2

Right Out: 44.141+/-0.013 χ^2/NDF : 1743430.9/18

Left In: 31.649+/-0.018 χ^2/NDF :182608.8/1

Left: 36.003+/-0.014 χ^2/NDF : 515623.9/4

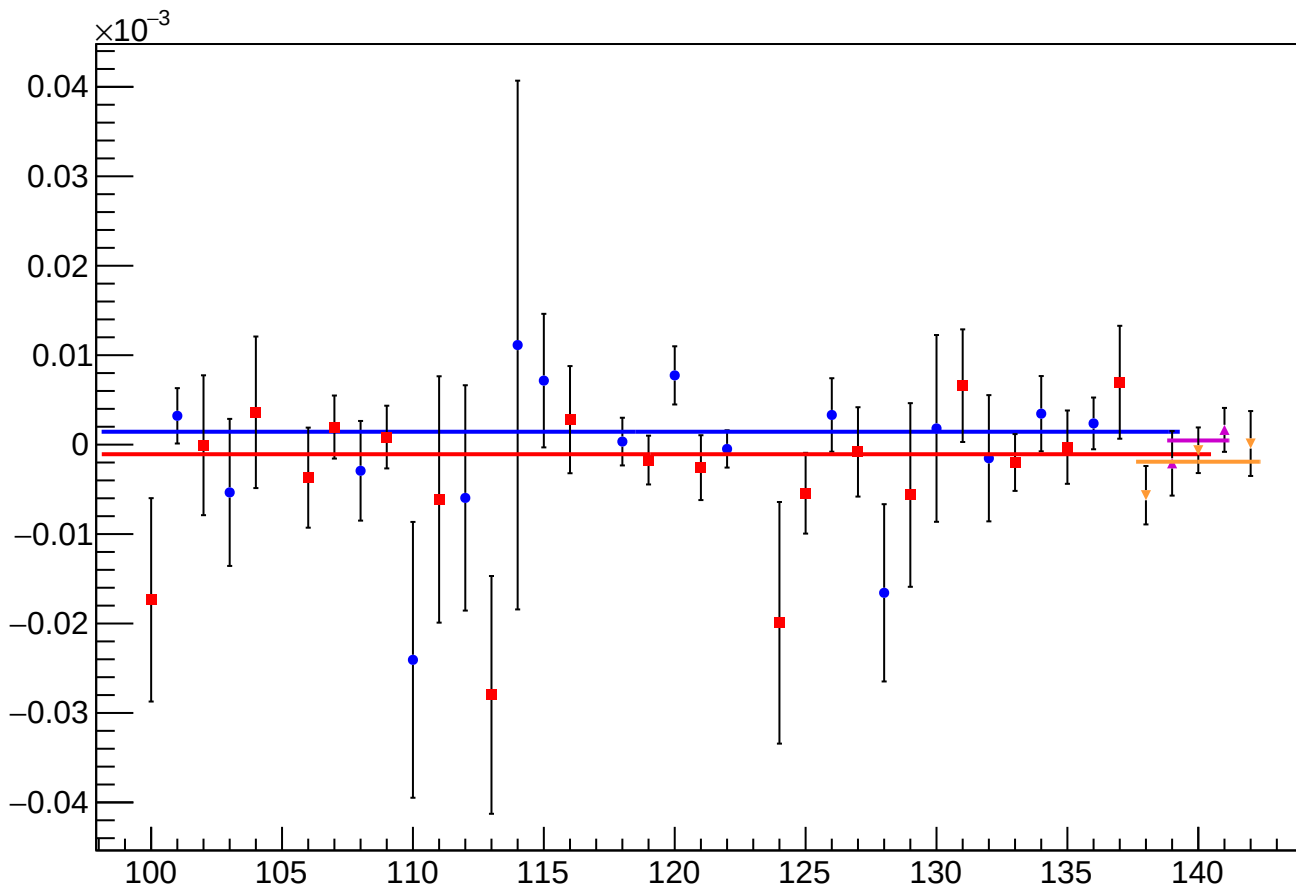
Right: 44.816+/-0.009 χ^2/NDF : 3003242.5/34

In: 40.763+/-0.010 χ^2/NDF :1830421.3/17

Out: 43.845+/-0.011 χ^2/NDF :1926163.5/21

All: 42.227+/-0.008 χ^2/NDF : 3797550.0/39

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.2/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:1.9/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 14.8/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.7/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 3.4/4

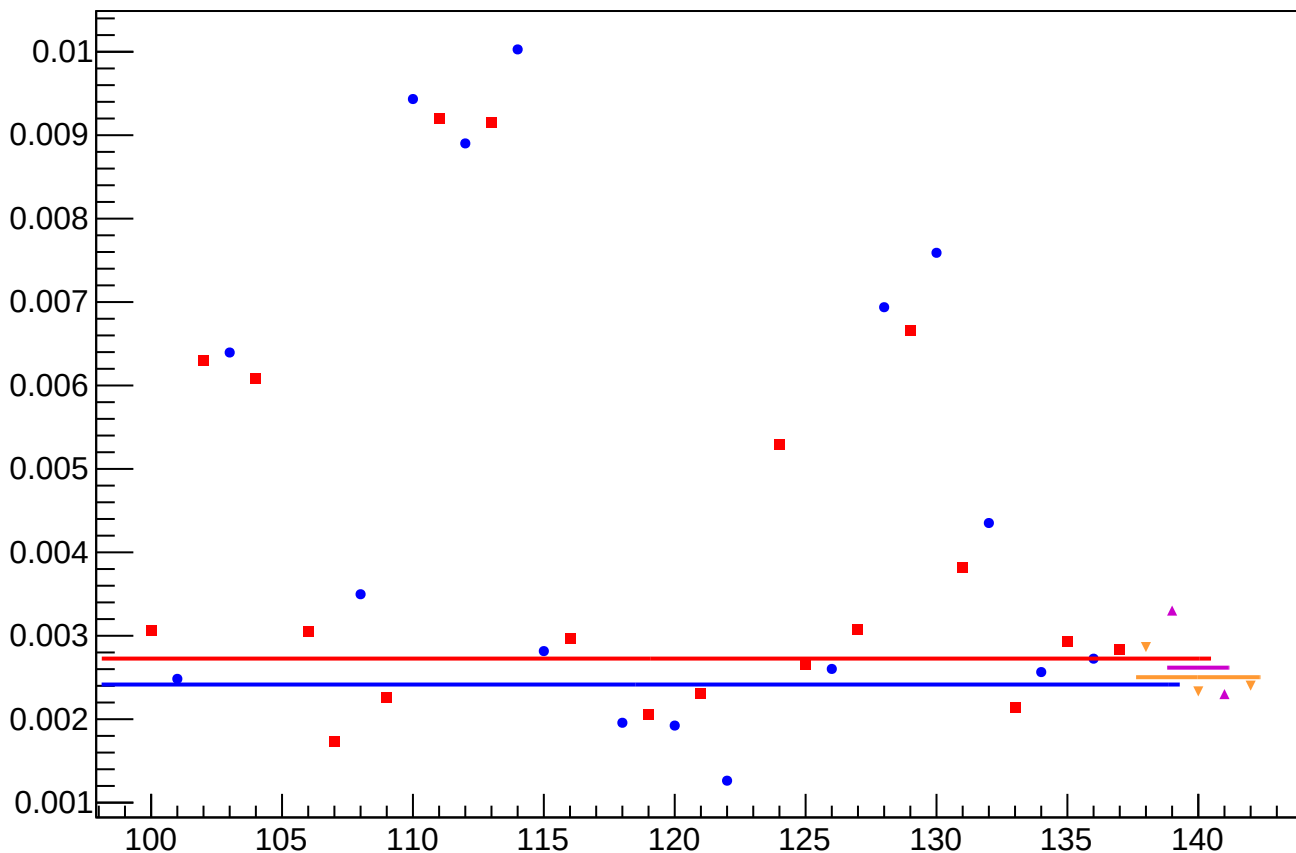
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 31.7/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:15.1/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:16.9/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 35.7/39

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000

χ^2/NDF : 3432108.8/15

Left Out: 0.003+/-0.000

χ^2/NDF :34958.0/2

Right Out: 0.003+/-0.000

χ^2/NDF : 2505080.1/18

Left In: 0.003+/-0.000

χ^2/NDF :105240.3/1

Left: 0.003+/-0.000

χ^2/NDF : 143821.6/4

Right: 0.003+/-0.000

χ^2/NDF : 6019731.5/34

In: 0.002+/-0.000

χ^2/NDF :3553062.9/17

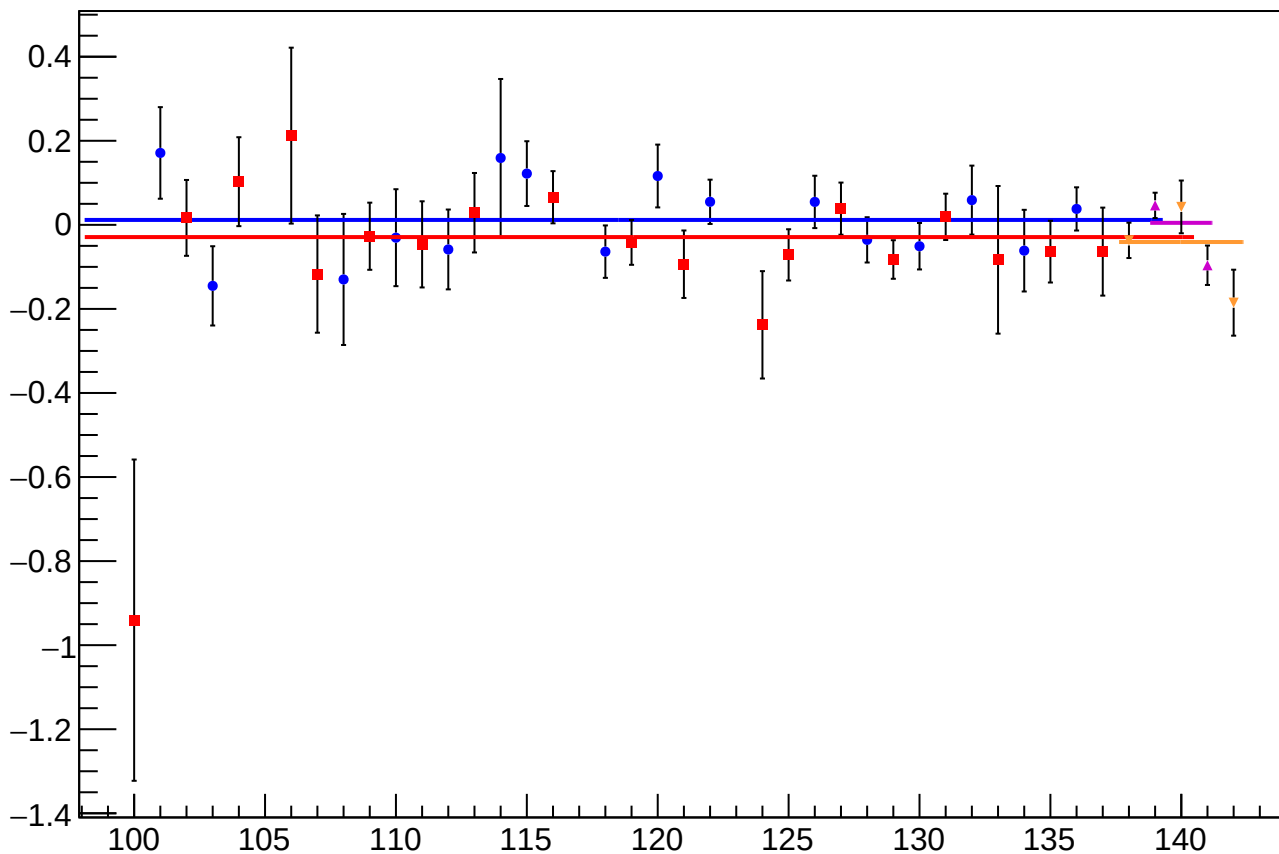
Out: 0.003+/-0.000

χ^2/NDF :2562924.5/21

All: 0.003+/-0.000

χ^2/NDF : 6163595.9/39

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.018 χ^2 /NDF: 16.9/15

Left Out: -0.041 $\pm$ 0.032 χ^2 /NDF: 5.2/2

Right Out: -0.029 $\pm$ 0.018 χ^2 /NDF: 19.5/18

Left In: 0.005 $\pm$ 0.025 χ^2 /NDF: 6.5/1

Left: -0.013 $\pm$ 0.020 χ^2 /NDF: 13.0/4

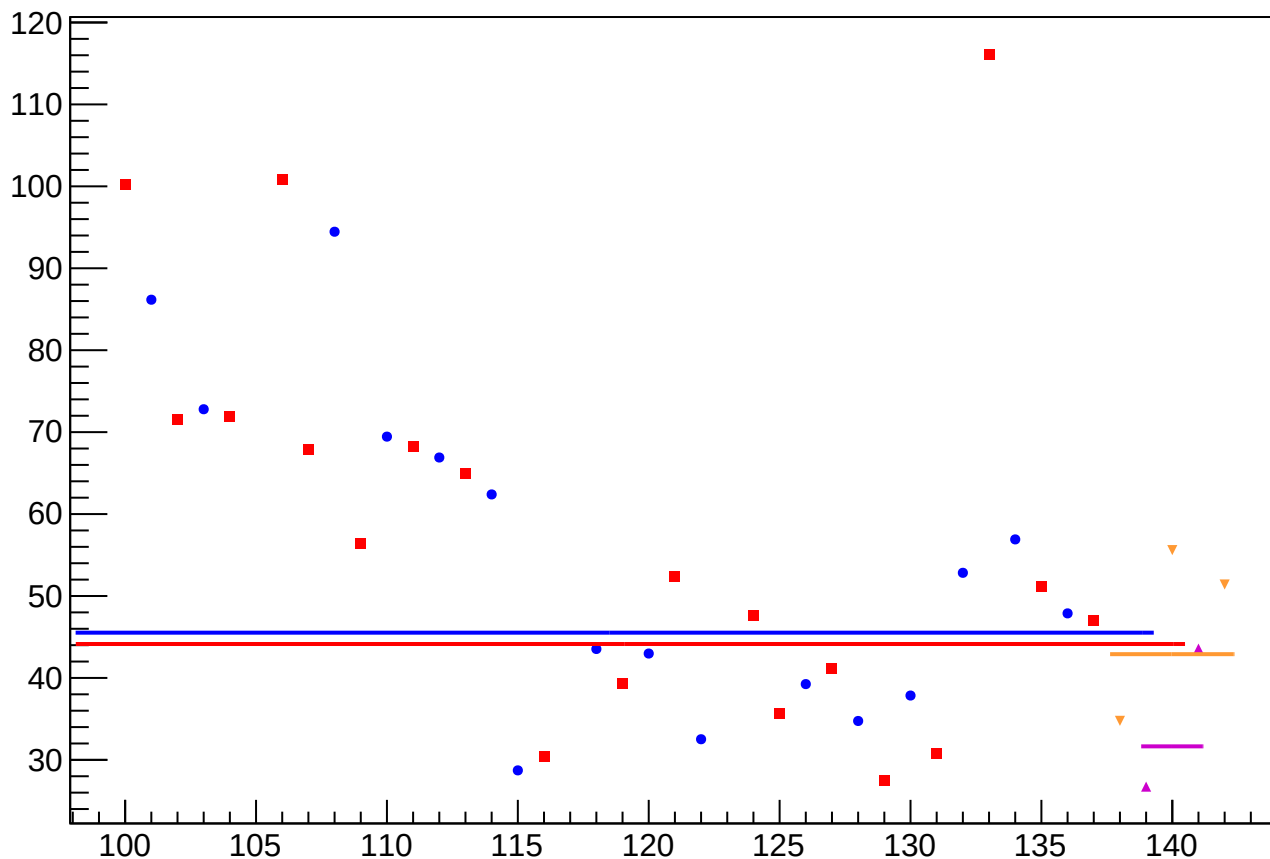
Right: -0.009 $\pm$ 0.013 χ^2 /NDF: 38.9/34

In: 0.009 $\pm$ 0.015 χ^2 /NDF: 23.4/17

Out: -0.032 $\pm$ 0.016 χ^2 /NDF: 24.8/21

All: -0.010 $\pm$ 0.011 χ^2 /NDF: 51.9/39

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 45.525+/-0.013 χ^2/NDF : 1253922.0/15

Left Out: 42.901+/-0.023 χ^2/NDF : 180444.8/2

Right Out: 44.141+/-0.013 χ^2/NDF : 1743351.0/18

Left In: 31.649+/-0.018 χ^2/NDF : 182617.4/1

Left: 36.003+/-0.014 χ^2/NDF : 515633.6/4

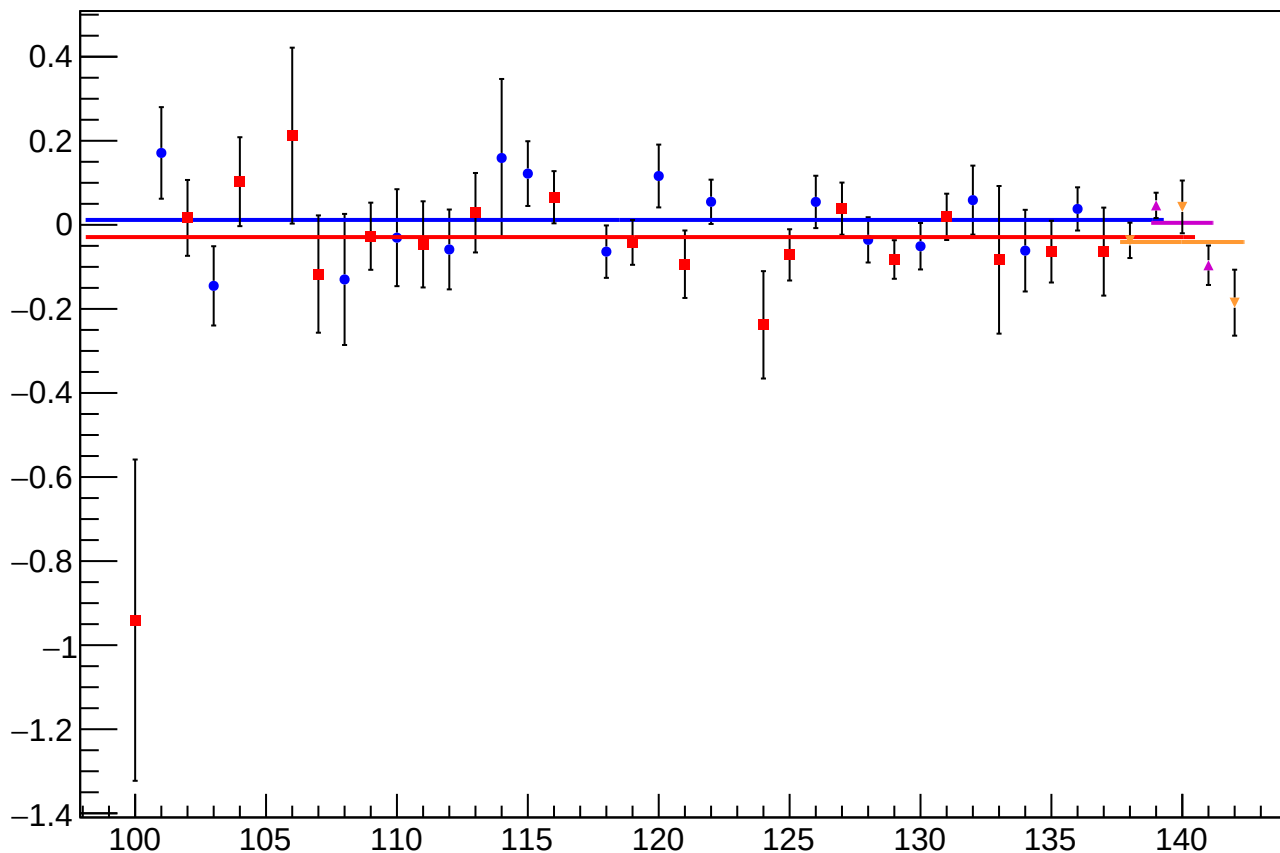
Right: 44.816+/-0.009 χ^2/NDF : 3003114.2/34

In: 40.763+/-0.010 χ^2/NDF : 1830376.9/17

Out: 43.845+/-0.011 χ^2/NDF : 1926094.6/21

All: 42.228+/-0.008 χ^2/NDF : 3797440.3/39

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.018 χ^2 /NDF: 16.9/15

Left Out: -0.041 $\pm$ 0.032 χ^2 /NDF: 5.2/2

Right Out: -0.029 $\pm$ 0.018 χ^2 /NDF: 19.5/18

Left In: 0.005 $\pm$ 0.025 χ^2 /NDF: 6.5/1

Left: -0.013 $\pm$ 0.020 χ^2 /NDF: 13.0/4

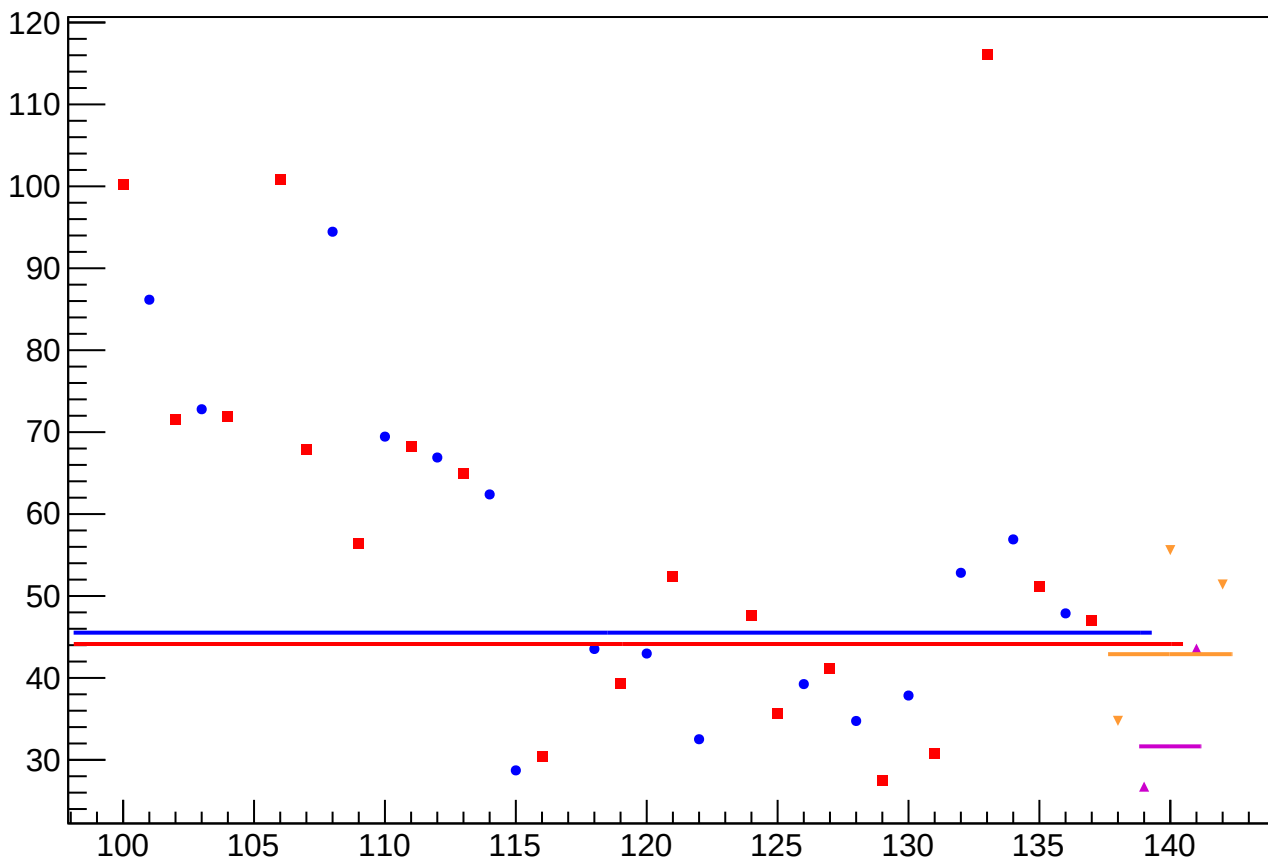
Right: -0.009 $\pm$ 0.013 χ^2 /NDF: 38.9/34

In: 0.009 $\pm$ 0.015 χ^2 /NDF: 23.4/17

Out: -0.032 $\pm$ 0.016 χ^2 /NDF: 24.8/21

All: -0.010 $\pm$ 0.011 χ^2 /NDF: 51.9/39

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 45.525+/-0.013 χ^2/NDF : 1253922.0/15

Left Out: 42.901+/-0.023 χ^2/NDF : 180444.8/2

Right Out: 44.141+/-0.013 χ^2/NDF : 1743351.0/18

Left In: 31.649+/-0.018 χ^2/NDF : 182617.4/1

Left: 36.003+/-0.014 χ^2/NDF : 515633.6/4

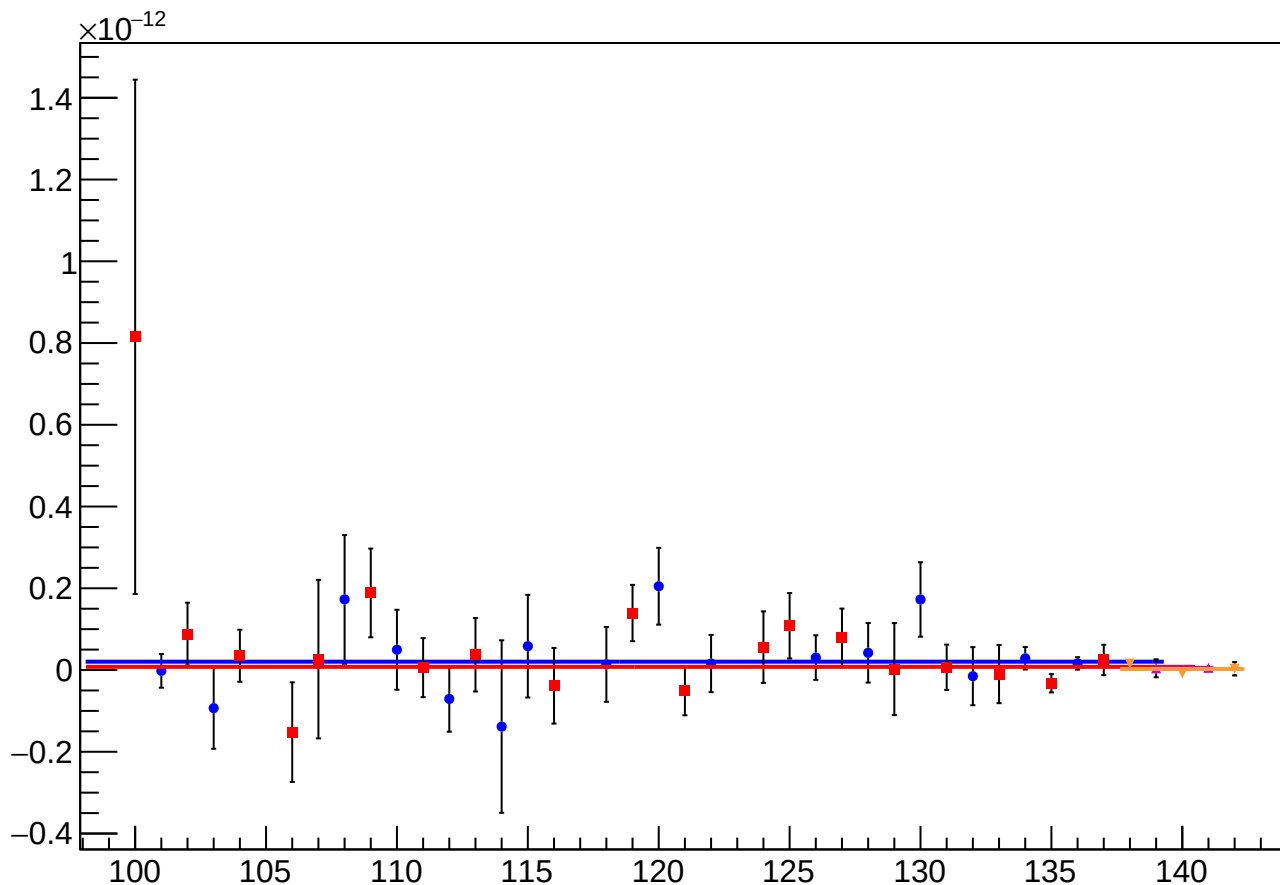
Right: 44.816+/-0.009 χ^2/NDF : 3003114.2/34

In: 40.763+/-0.010 χ^2/NDF : 1830376.9/17

Out: 43.845+/-0.011 χ^2/NDF : 1926094.6/21

All: 42.228+/-0.008 χ^2/NDF : 3797440.3/39

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 2.2/4

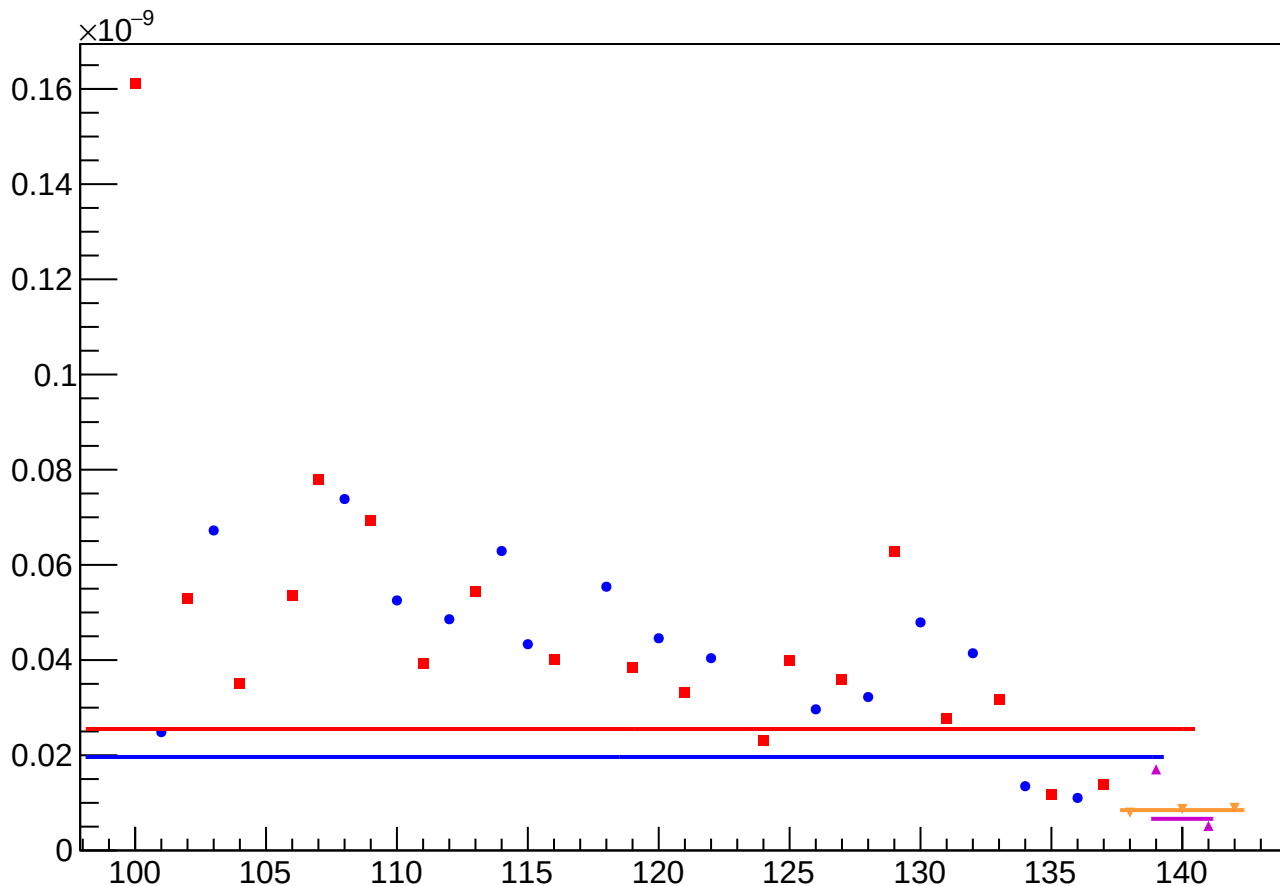
Right: 0.000+/-0.000 χ^2/NDF : 31.1/34

In: 0.000+/-0.000 χ^2/NDF : 13.0/17

Out: 0.000+/-0.000 χ^2/NDF : 21.0/21

All: 0.000+/-0.000 χ^2/NDF : 34.5/39

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3241093.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 6509.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2703953.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 510571.5/1

Left: 0.000+/-0.000 χ^2/NDF : 575597.7/4

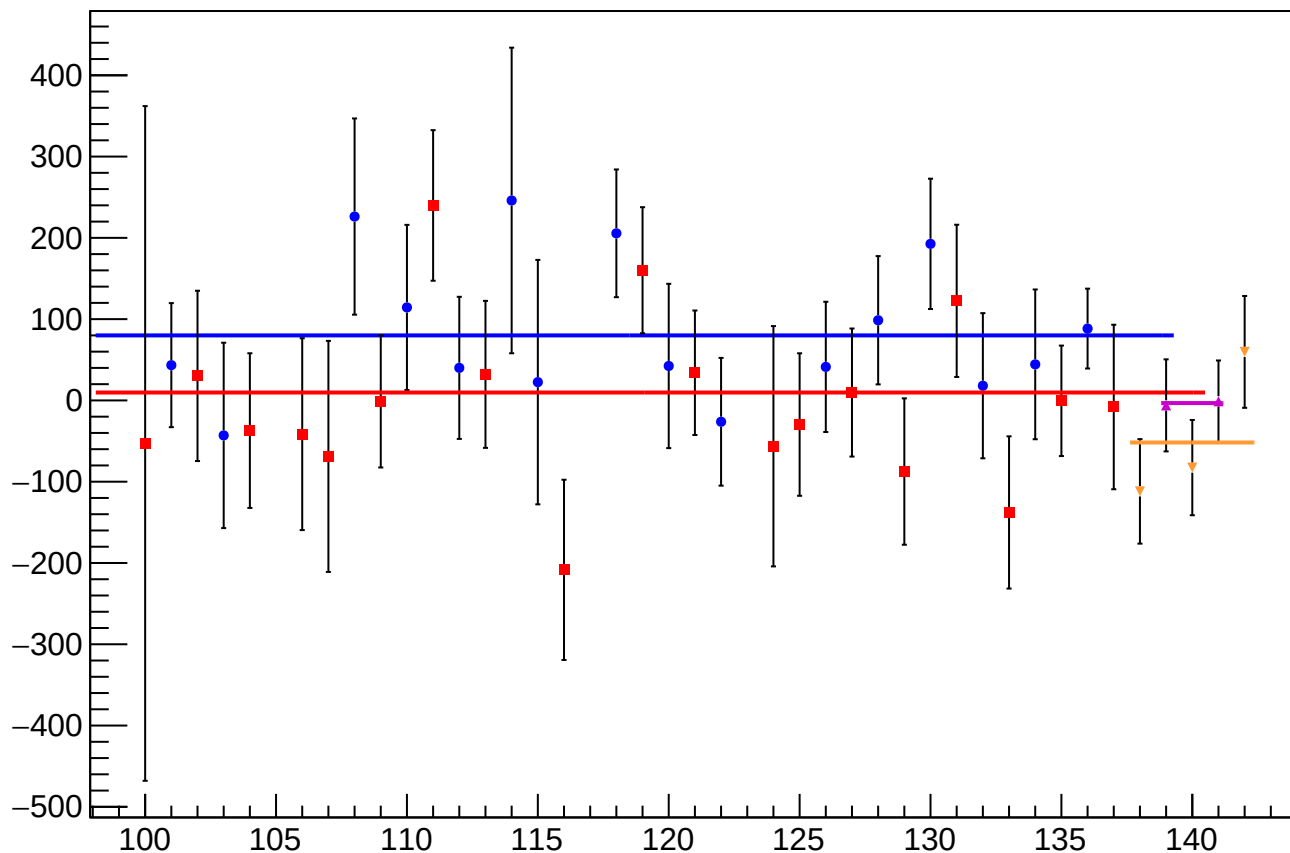
Right: 0.000+/-0.000 χ^2/NDF : 6166556.0/34

In: 0.000+/-0.000 χ^2/NDF : 5575088.0/17

Out: 0.000+/-0.000 χ^2/NDF : 5108470.5/21

All: 0.000+/-0.000 χ^2/NDF : 10734171.4/39

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 79.993 $\pm$ 21.474 χ^2 /NDF: 11.6/15

Left Out: -51.759 $\pm$ 36.656 χ^2 /NDF:3.8/2

Right Out: 9.730 $\pm$ 21.617 χ^2 /NDF: 20.3/18

Left In: -3.255 $\pm$ 37.553 χ^2 /NDF:0.0/1

Left: -28.093 $\pm$ 26.231 χ^2 /NDF: 4.6/4

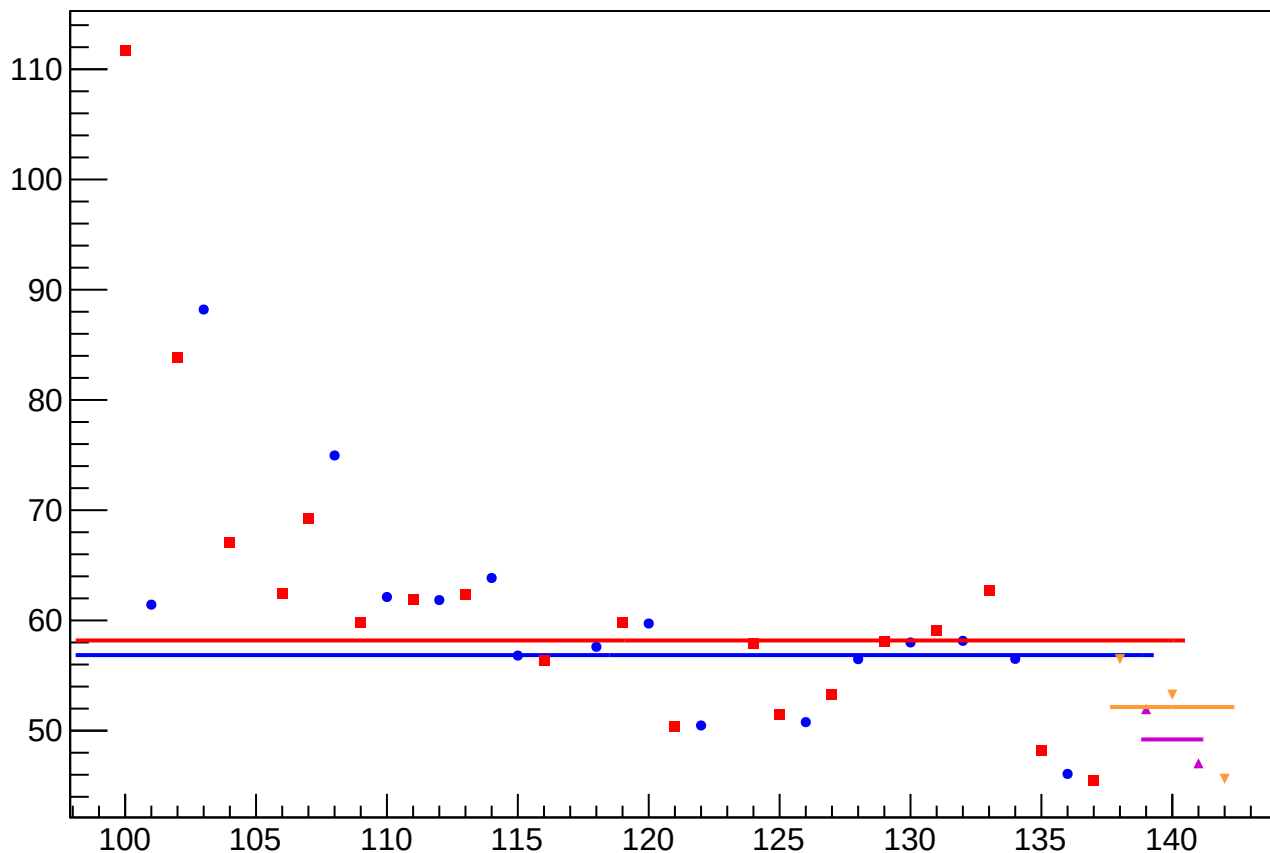
Right: 45.094 $\pm$ 15.235 χ^2 /NDF: 37.2/34

In: 59.479 $\pm$ 18.642 χ^2 /NDF:15.3/17

Out: -6.137 $\pm$ 18.620 χ^2 /NDF:26.2/21

All: 26.634 $\pm$ 13.174 χ^2 /NDF: 47.7/39

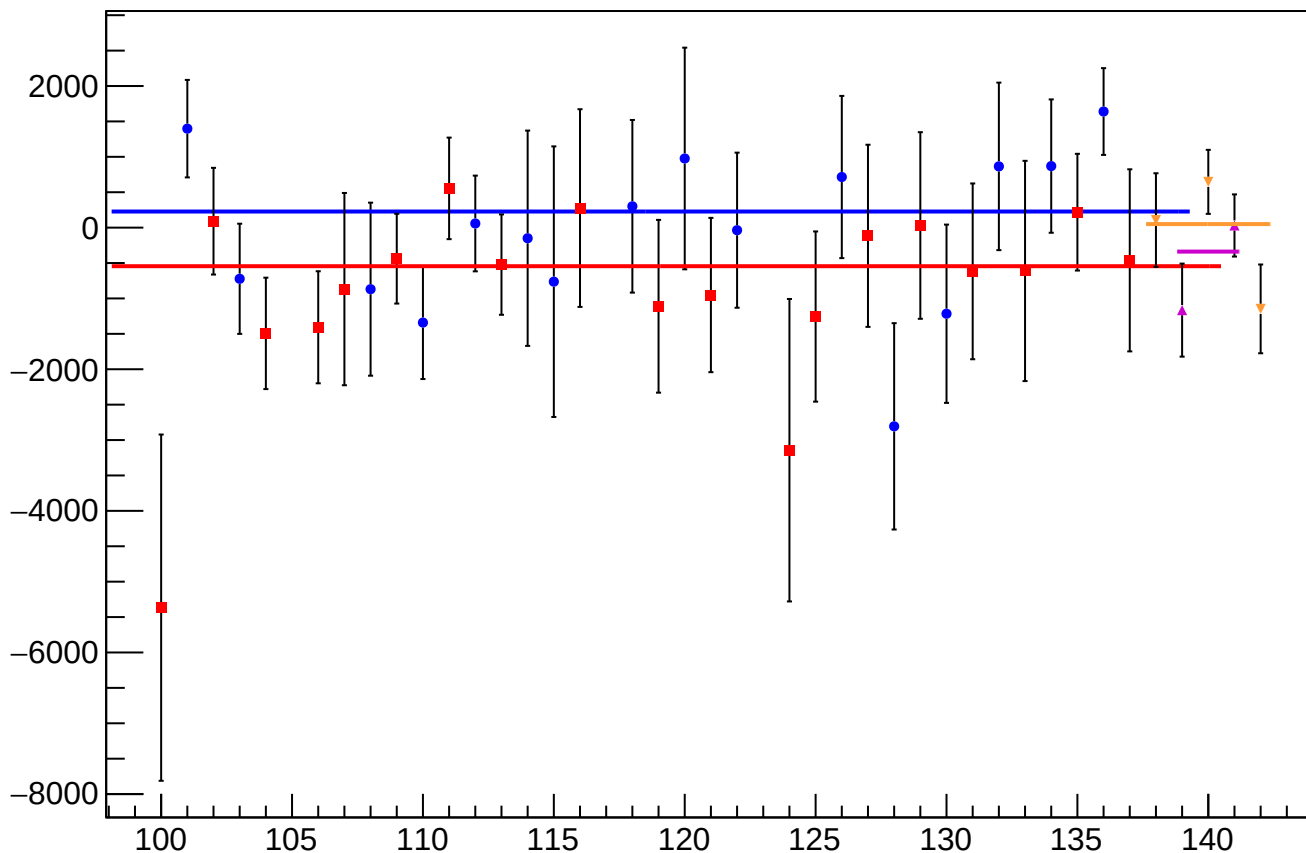
reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 56.854+/-0.015 χ^2/NDF : 341601.2/15
 Left Out: 52.145+/-0.026 χ^2/NDF : 27746.1/2
 Right Out: 58.181+/-0.015 χ^2/NDF : 314660.6/18
 Left In: 49.203+/-0.027 χ^2/NDF : 8436.6/1

Left: 50.710+/-0.019 χ^2/NDF : 42470.5/4
 Right: 57.513+/-0.011 χ^2/NDF : 660056.1/34
 In: 54.969+/-0.013 χ^2/NDF : 412604.1/17
 Out: 56.624+/-0.013 χ^2/NDF : 382644.2/21
 All: 55.797+/-0.009 χ^2/NDF : 803139.6/39

asym_sam_15_48_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 227.508 ± 241.225 χ^2/NDF : 21.6/15

Left Out: 50.180 ± 320.670 χ^2/NDF : 5.4/2

Right Out: -544.769 ± 227.243 χ^2/NDF : 13.4/18

Left In: -338.471 ± 364.991 χ^2/NDF : 2.3/1

Left: -119.128 ± 240.902 χ^2/NDF : 8.3/4

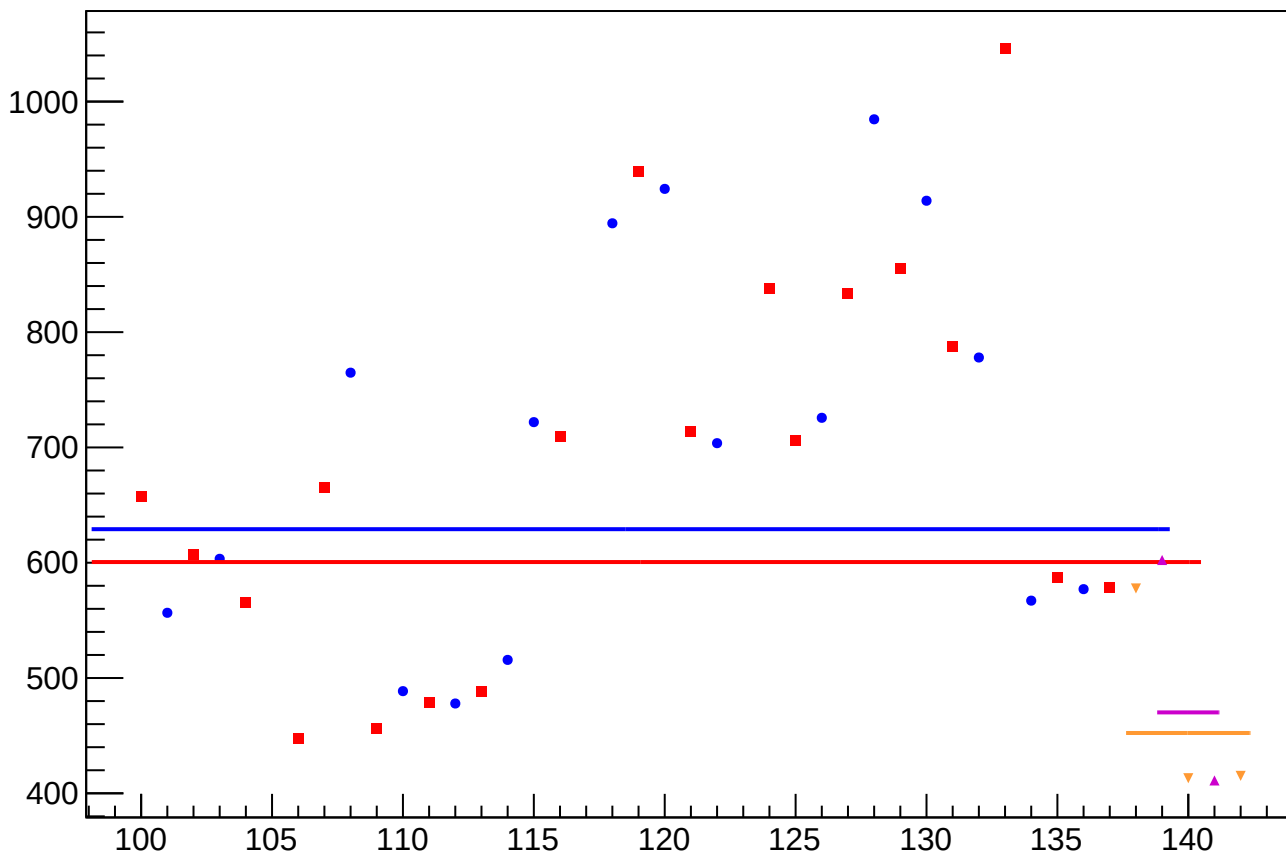
Right: -181.660 ± 165.407 χ^2/NDF : 40.4/34

In: 55.446 ± 201.245 χ^2/NDF : 25.6/17

Out: -345.876 ± 185.408 χ^2/NDF : 21.1/21

All: -161.625 ± 136.359 χ^2/NDF : 48.8/39

asym_sam_15_48_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 629.096+/-0.171 χ^2/NDF : 692724.2/15

Left Out: 452.320+/-0.227 χ^2/NDF : 93984.5/2

Right Out: 600.593+/-0.161 χ^2/NDF : 874614.2/18

Left In: 470.178+/-0.258 χ^2/NDF : 117128.4/1

Left: 460.099+/-0.170 χ^2/NDF : 213815.0/4

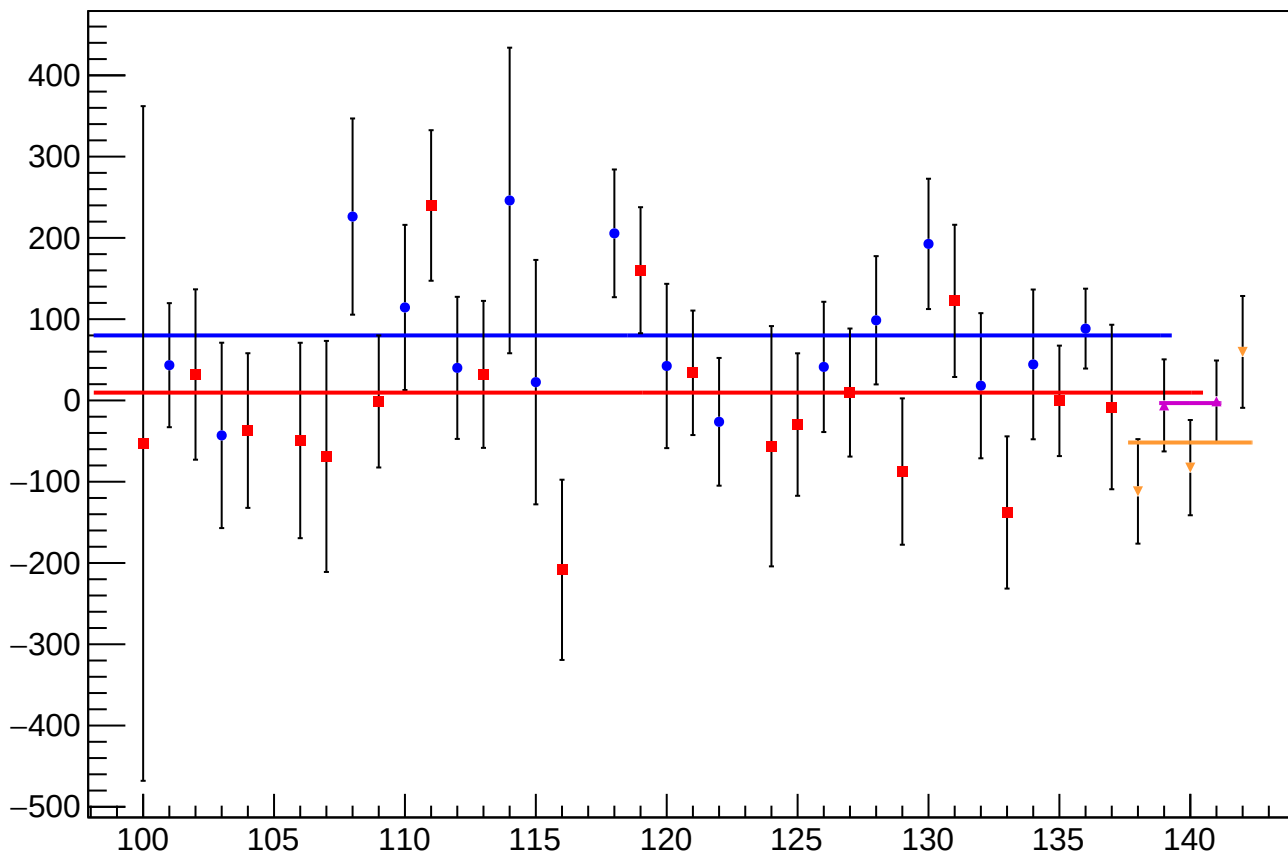
Right: 613.994+/-0.117 χ^2/NDF : 1582132.3/34

In: 580.784+/-0.142 χ^2/NDF : 1073737.8/17

Out: 551.025+/-0.131 χ^2/NDF : 1253252.9/21

All: 564.687+/-0.096 χ^2/NDF : 2350645.4/39

cor_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 79.998 $\pm$ 21.474 χ^2 /NDF: 11.6/15

Left Out: -51.765 $\pm$ 36.656 χ^2 /NDF:3.8/2

Right Out: 9.619 $\pm$ 21.631 χ^2 /NDF: 20.4/18

Left In: -3.256 $\pm$ 37.553 χ^2 /NDF:0.0/1

Left: -28.097 $\pm$ 26.231 χ^2 /NDF: 4.6/4

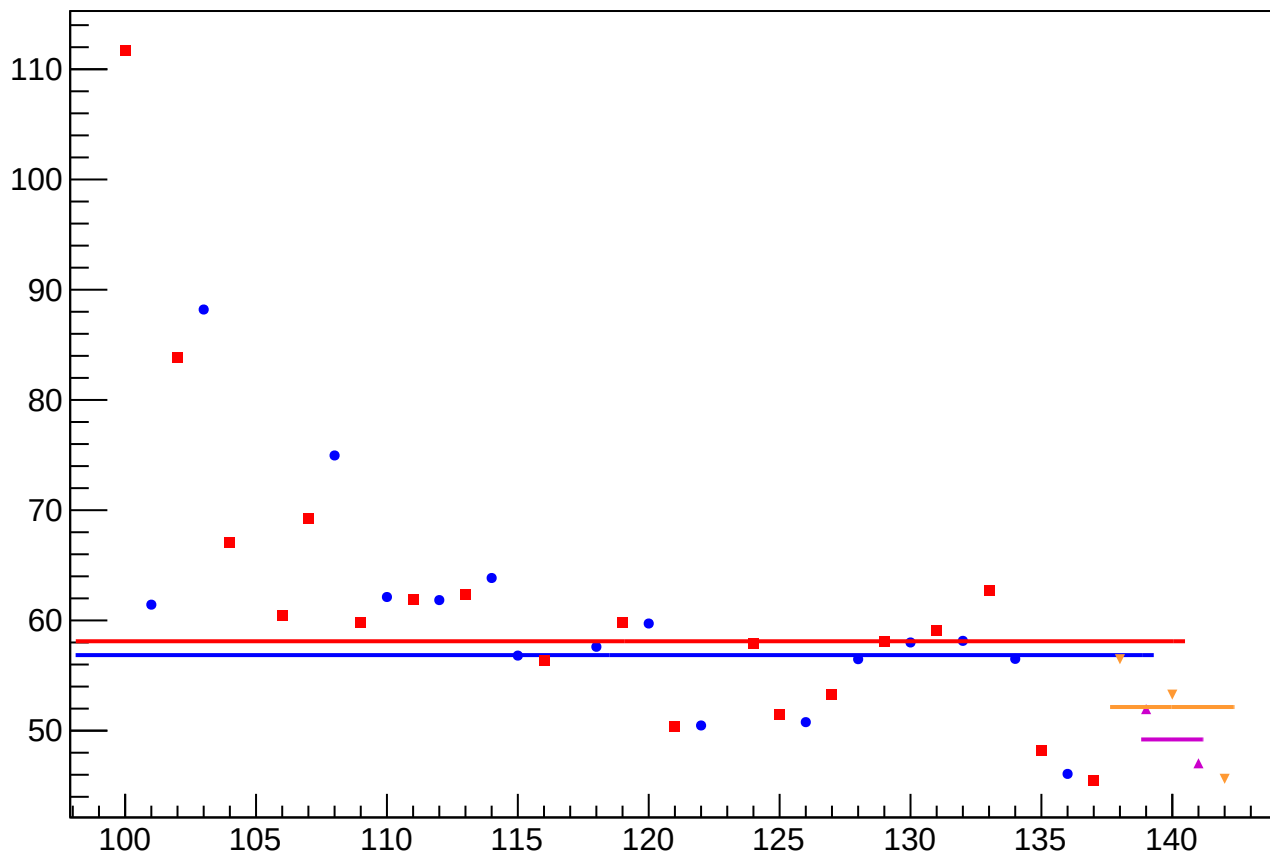
Right: 45.064 $\pm$ 15.240 χ^2 /NDF: 37.3/34

In: 59.482 $\pm$ 18.642 χ^2 /NDF:15.3/17

Out: -6.236 $\pm$ 18.629 χ^2 /NDF:26.3/21

All: 26.601 $\pm$ 13.177 χ^2 /NDF: 47.7/39

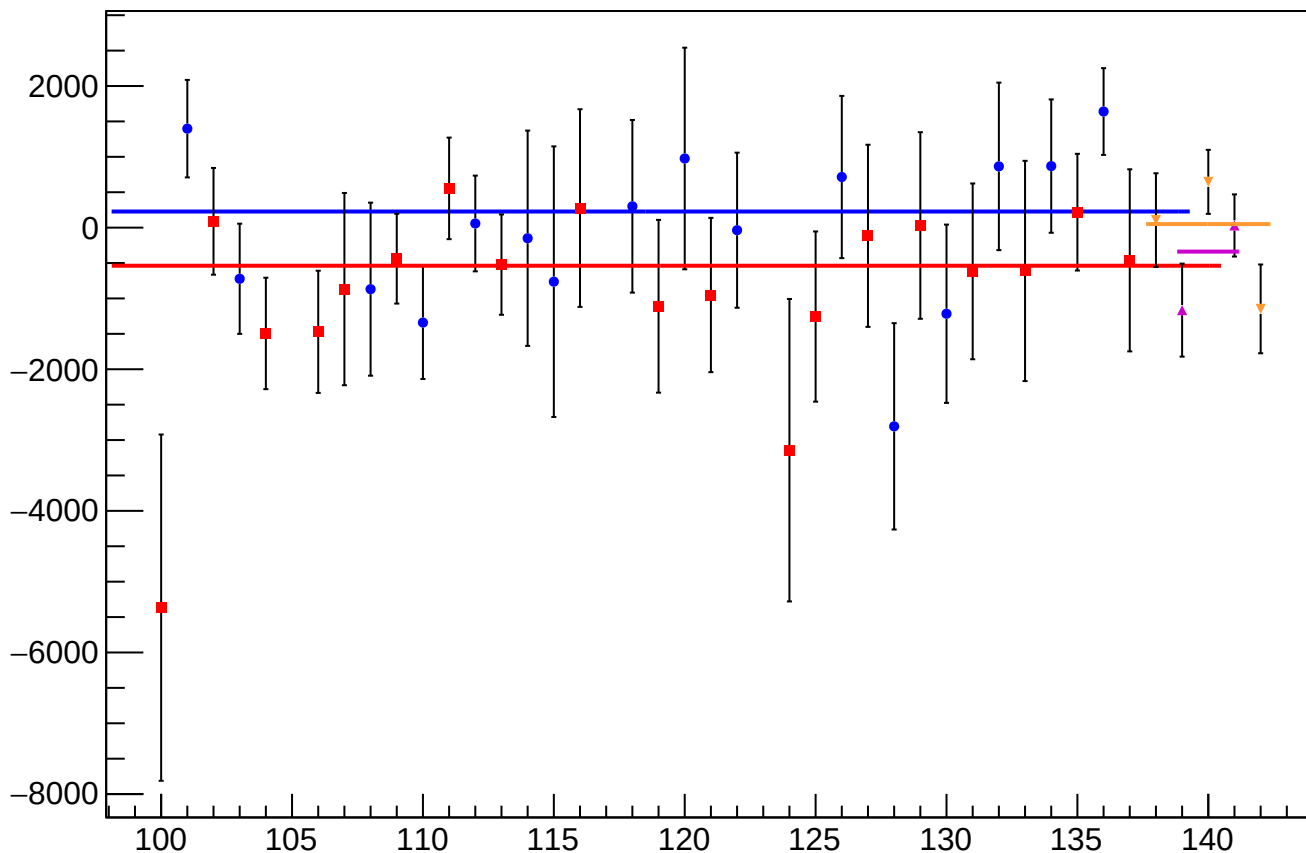
cor_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 56.854 $\pm$ 0.015 χ^2/NDF : 341605.0/15
 Left Out: 52.145 $\pm$ 0.026 χ^2/NDF : 27746.1/2
 Right Out: 58.111 $\pm$ 0.015 χ^2/NDF : 312938.5/18
 Left In: 49.203 $\pm$ 0.027 χ^2/NDF : 8436.6/1

Left: 50.710 $\pm$ 0.019 χ^2/NDF : 42470.5/4
 Right: 57.478 $\pm$ 0.011 χ^2/NDF : 657942.0/34
 In: 54.969 $\pm$ 0.013 χ^2/NDF : 412607.9/17
 Out: 56.570 $\pm$ 0.013 χ^2/NDF : 379972.0/21
 All: 55.770 $\pm$ 0.009 χ^2/NDF : 799962.1/39

asym_sam_15_48_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 227.547 ± 241.227 $\chi^2/\text{NDF}: 21.6/15$

Left Out: 50.172 ± 320.670 $\chi^2/\text{NDF}: 5.4/2$

Right Out: -538.117 ± 228.754 $\chi^2/\text{NDF}: 13.3/18$

Left In: -338.480 ± 364.992 $\chi^2/\text{NDF}: 2.3/1$

Left: -119.135 ± 240.902 $\chi^2/\text{NDF}: 8.3/4$

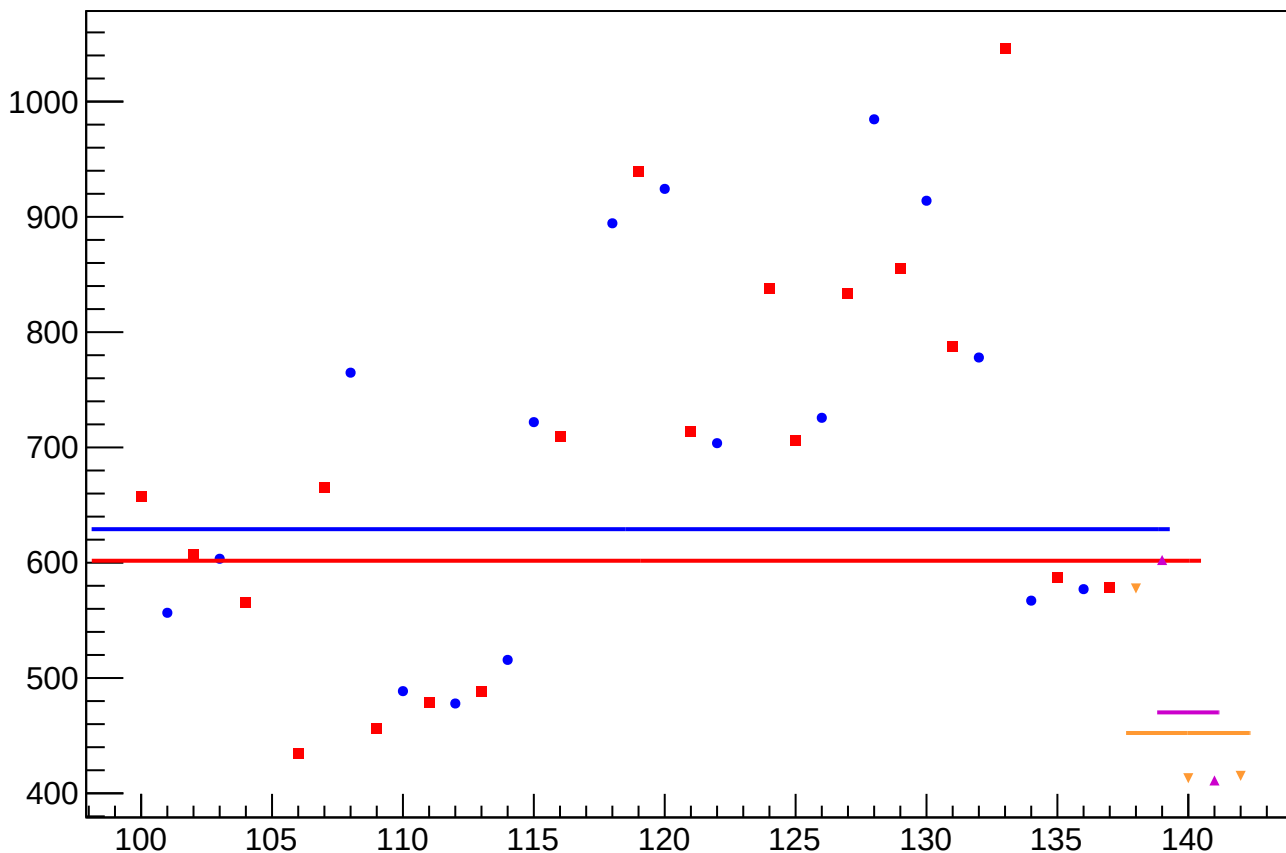
Right: -175.590 ± 165.988 $\chi^2/\text{NDF}: 40.3/34$

In: 55.469 ± 201.246 $\chi^2/\text{NDF}: 25.6/17$

Out: -339.710 ± 186.226 $\chi^2/\text{NDF}: 21.0/21$

All: -157.416 ± 136.684 $\chi^2/\text{NDF}: 48.6/39$

asym_sam_15_48_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 629.101 $\pm$ 0.171 χ^2 /NDF: 692716.0/15

Left Out: 452.319 $\pm$ 0.227 χ^2 /NDF: 93984.3/2

Right Out: 601.721 $\pm$ 0.162 χ^2 /NDF: 874042.1/18

Left In: 470.178 $\pm$ 0.258 χ^2 /NDF: 117127.1/1

Left: 460.099 $\pm$ 0.170 χ^2 /NDF: 213813.8/4

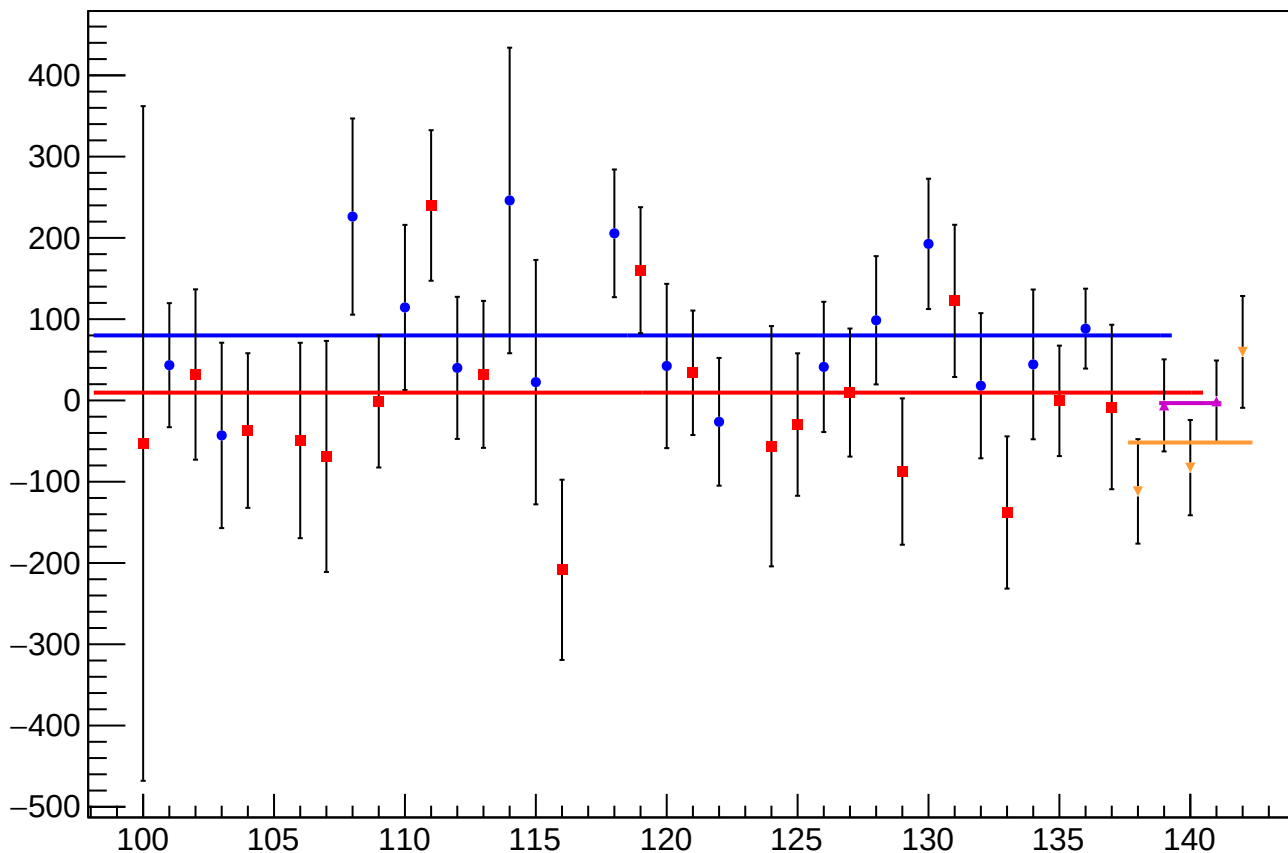
Right: 614.684 $\pm$ 0.117 χ^2 /NDF: 1580324.3/34

In: 580.787 $\pm$ 0.142 χ^2 /NDF: 1073740.9/17

Out: 551.333 $\pm$ 0.132 χ^2 /NDF: 1255744.2/21

All: 564.920 $\pm$ 0.097 χ^2 /NDF: 2352562.8/39

eigen_cor_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 79.998 $\pm$ 21.474 χ^2 /NDF: 11.6/15

Left Out: -51.765 $\pm$ 36.656 χ^2 /NDF:3.8/2

Right Out: 9.619 $\pm$ 21.631 χ^2 /NDF: 20.4/18

Left In: -3.256 $\pm$ 37.553 χ^2 /NDF:0.0/1

Left: -28.097 $\pm$ 26.231 χ^2 /NDF: 4.6/4

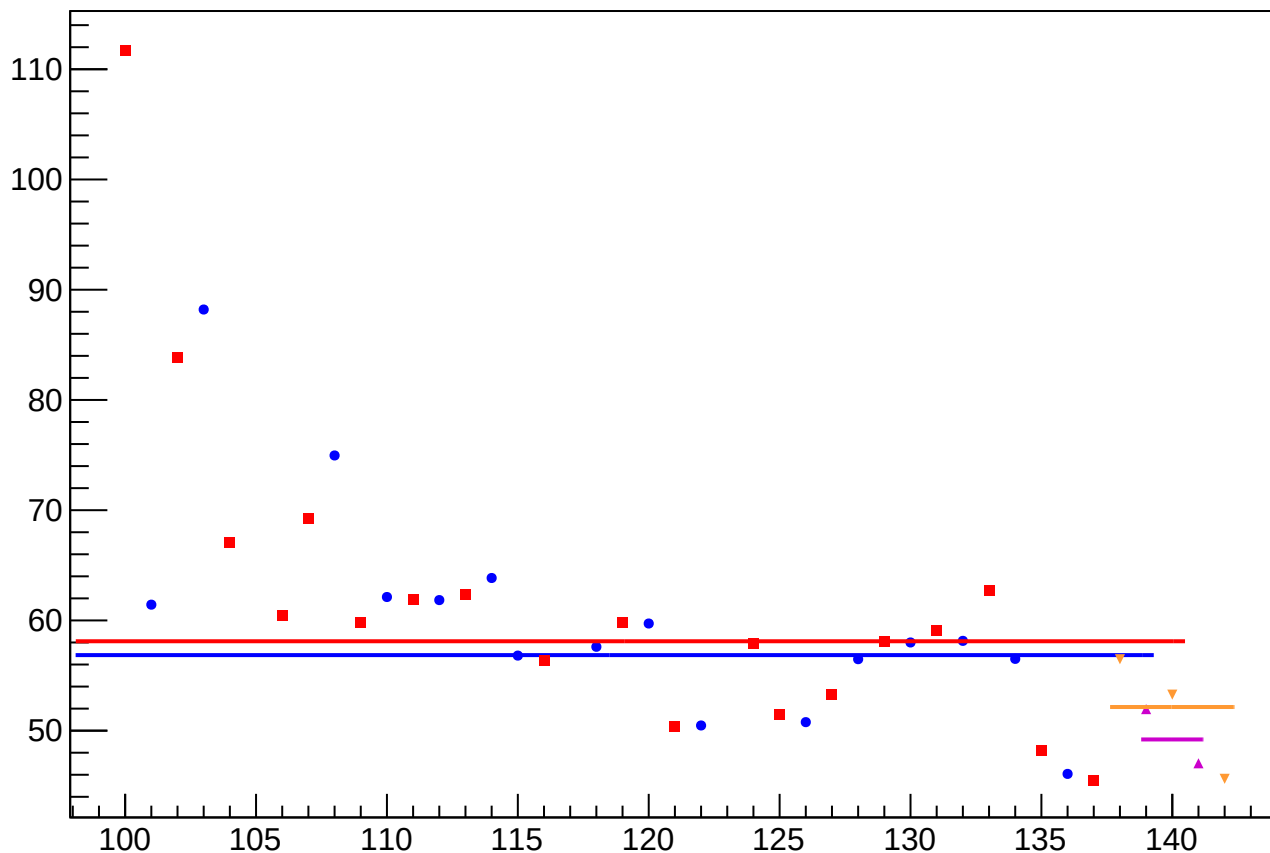
Right: 45.064 $\pm$ 15.240 χ^2 /NDF: 37.3/34

In: 59.482 $\pm$ 18.642 χ^2 /NDF:15.3/17

Out: -6.236 $\pm$ 18.629 χ^2 /NDF:26.3/21

All: 26.601 $\pm$ 13.177 χ^2 /NDF: 47.7/39

eigen_cor_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 56.854+/-0.015 χ^2/NDF : 341605.0/15

Left Out: 52.145+/-0.026 χ^2/NDF : 27746.1/2

Right Out: 58.111+/-0.015 χ^2/NDF : 312938.5/18

Left In: 49.203+/-0.027 χ^2/NDF : 8436.6/1

Left: 50.710+/-0.019 χ^2/NDF : 42470.5/4

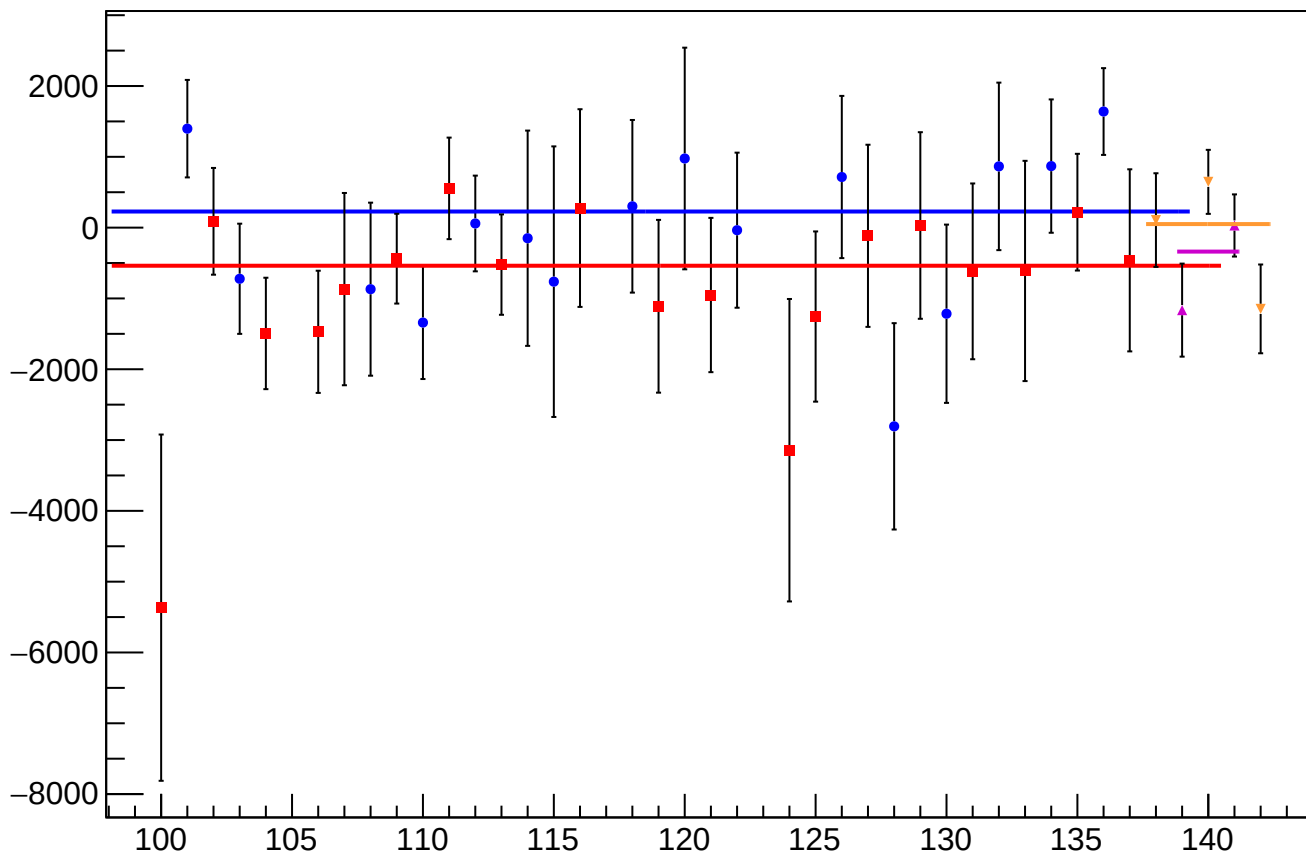
Right: 57.478+/-0.011 χ^2/NDF : 657942.0/34

In: 54.969+/-0.013 χ^2/NDF : 412607.9/17

Out: 56.570+/-0.013 χ^2/NDF : 379972.0/21

All: 55.770+/-0.009 χ^2/NDF : 799962.1/39

asym_sam_15_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 227.547 ± 241.227 χ^2/NDF : 21.6/15

Left Out: 50.172 ± 320.670 χ^2/NDF : 5.4/2

Right Out: -538.117 ± 228.754 χ^2/NDF : 13.3/18

Left In: -338.480 ± 364.992 χ^2/NDF : 2.3/1

Left: -119.135 ± 240.902 χ^2/NDF : 8.3/4

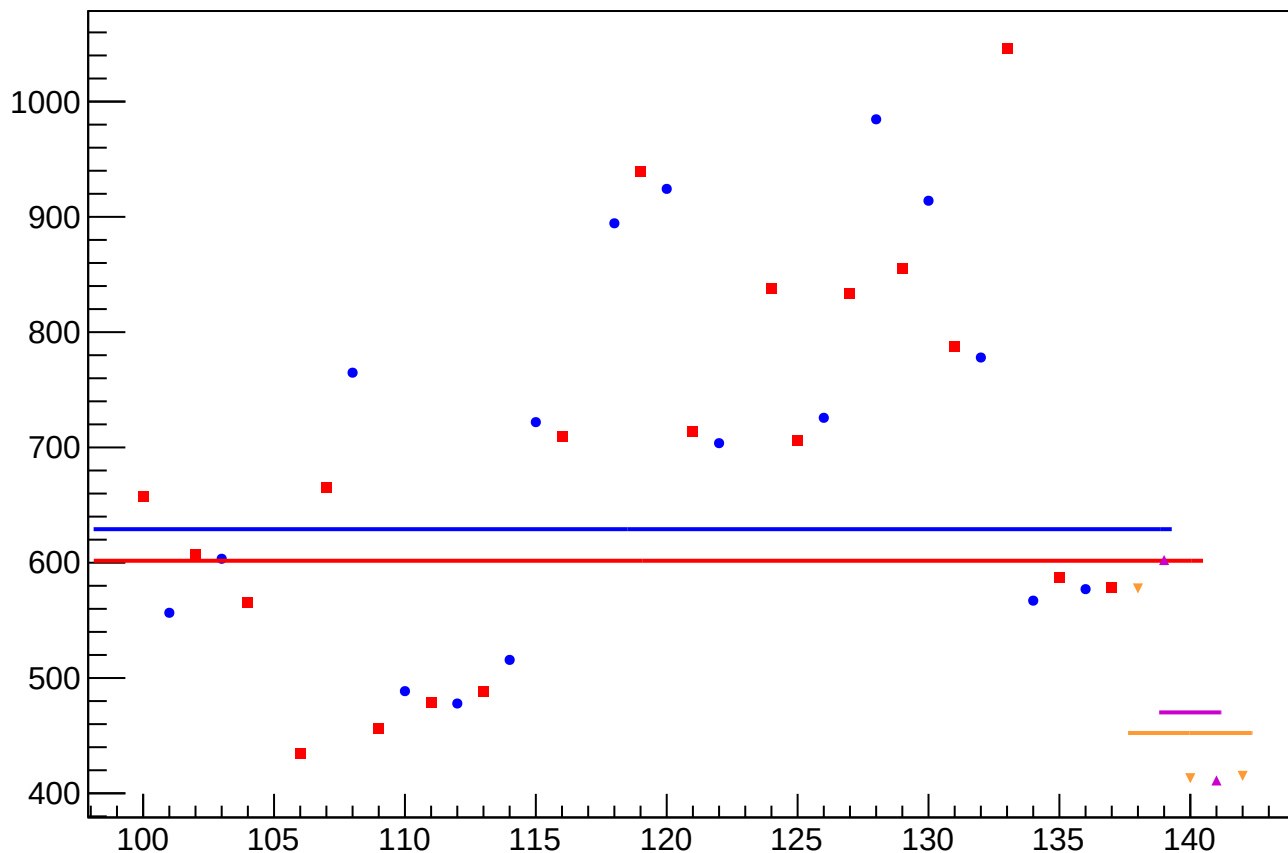
Right: -175.590 ± 165.988 χ^2/NDF : 40.3/34

In: 55.469 ± 201.246 χ^2/NDF : 25.6/17

Out: -339.710 ± 186.226 χ^2/NDF : 21.0/21

All: -157.416 ± 136.684 χ^2/NDF : 48.6/39

asym_sam_15_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 629.101 $\pm$ 0.171 χ^2 /NDF: 692716.0/15

Left Out: 452.319 $\pm$ 0.227 χ^2 /NDF:93984.3/2

Right Out: 601.721 $\pm$ 0.162 χ^2 /NDF: 874042.1/18

Left In: 470.178 $\pm$ 0.258 χ^2 /NDF:117127.1/1

Left: 460.099 $\pm$ 0.170 χ^2 /NDF: 213813.8/4

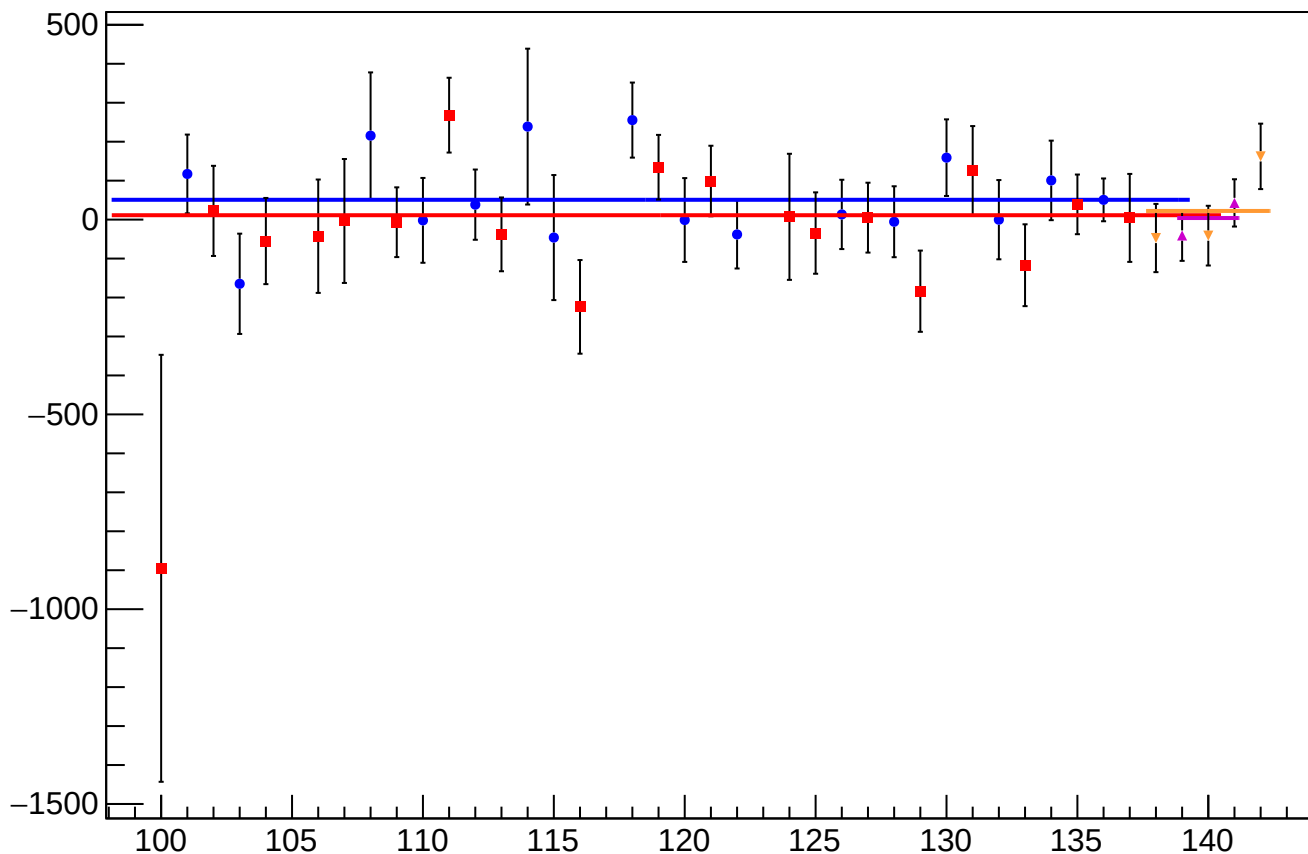
Right: 614.684 $\pm$ 0.117 χ^2 /NDF: 1580324.3/34

In: 580.787 $\pm$ 0.142 χ^2 /NDF:1073740.9/17

Out: 551.333 $\pm$ 0.132 χ^2 /NDF:1255744.2/21

All: 564.920 $\pm$ 0.097 χ^2 /NDF: 2352562.8/39

dit_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 50.861 $\pm$ 24.492 χ^2 /NDF: 13.8/15

Left Out: 22.213 $\pm$ 47.547 χ^2 /NDF:4.1/2

Right Out: 11.261 $\pm$ 24.324 χ^2 /NDF: 24.0/18

Left In: 4.043 $\pm$ 44.410 χ^2 /NDF:0.9/1

Left: 12.509 $\pm$ 32.455 χ^2 /NDF: 5.1/4

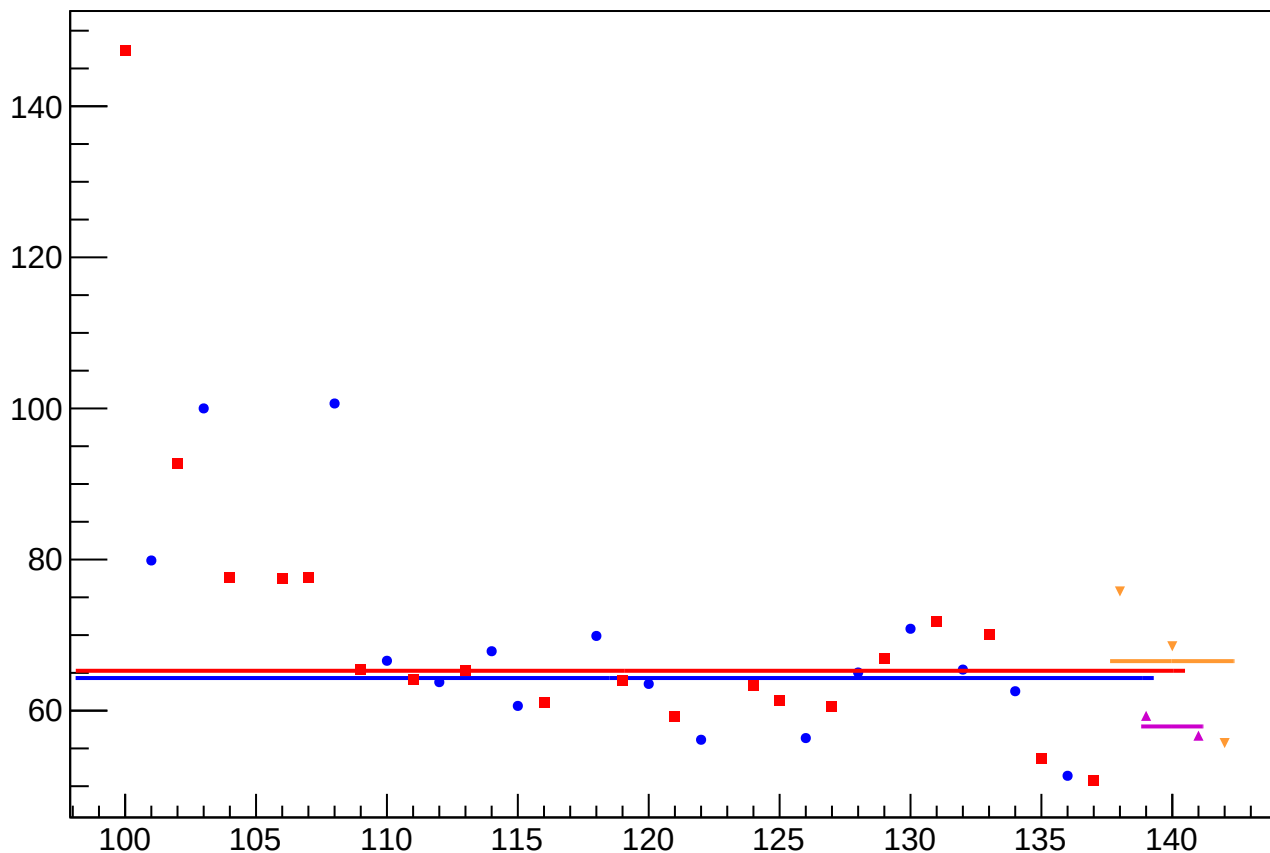
Right: 30.925 $\pm$ 17.259 χ^2 /NDF: 39.1/34

In: 39.942 $\pm$ 21.447 χ^2 /NDF:15.5/17

Out: 13.533 $\pm$ 21.655 χ^2 /NDF:28.2/21

All: 26.865 $\pm$ 15.238 χ^2 /NDF: 44.4/39

dit_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.317 $\pm$ 0.017 χ^2 /NDF: 464952.4/15

Left Out: 66.555 $\pm$ 0.034 χ^2 /NDF: 56830.1/2

Right Out: 65.277 $\pm$ 0.017 χ^2 /NDF: 319136.6/18

Left In: 57.909 $\pm$ 0.031 χ^2 /NDF: 1738.1/1

Left: 61.937 $\pm$ 0.023 χ^2 /NDF: 93886.6/4

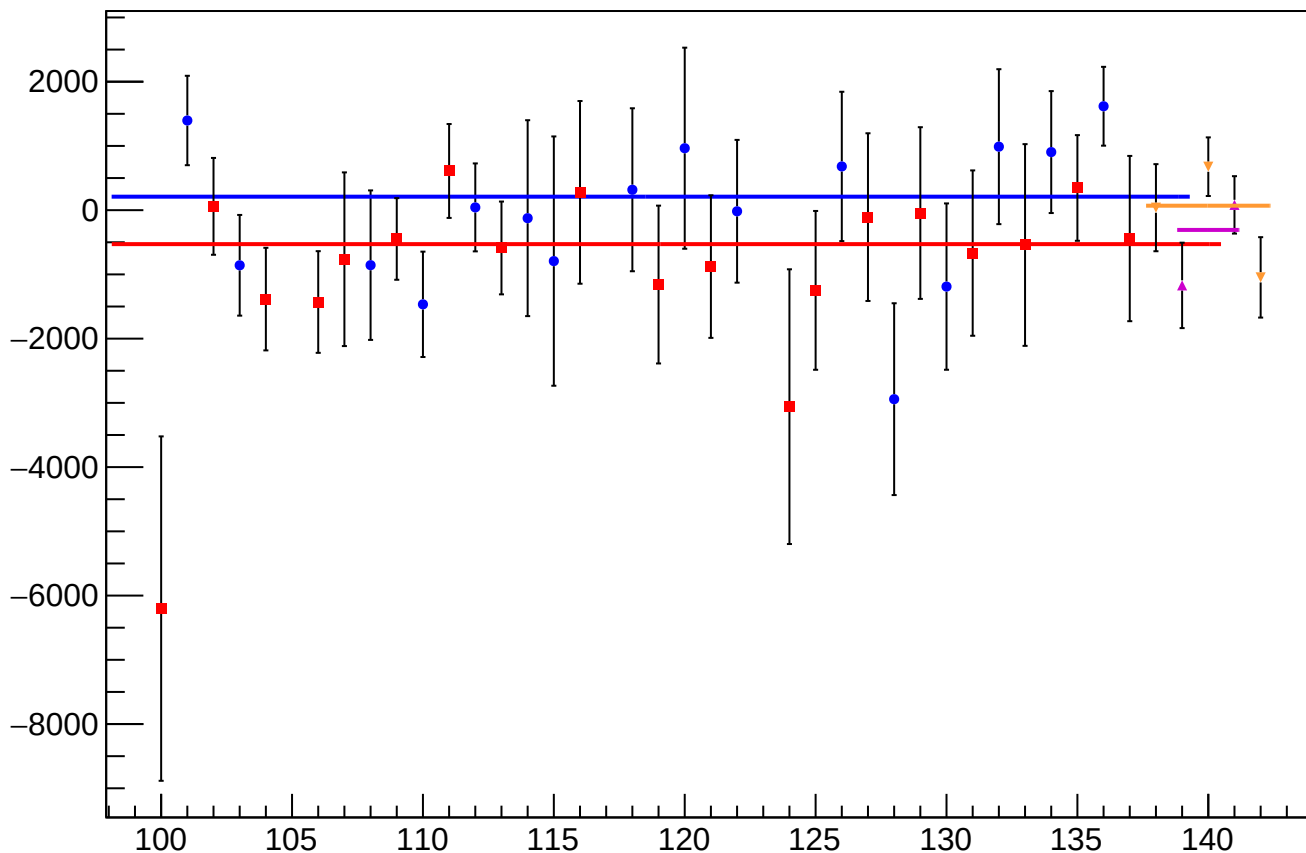
Right: 64.800 $\pm$ 0.012 χ^2 /NDF: 785637.7/34

In: 62.822 $\pm$ 0.015 χ^2 /NDF: 498618.2/17

Out: 65.542 $\pm$ 0.015 χ^2 /NDF: 377110.9/21

All: 64.169 $\pm$ 0.011 χ^2 /NDF: 891657.9/39

asym_sam_15_48_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 210.018 $\pm$ 243.798 χ^2 /NDF: 22.4/15

Left Out: 69.580 $\pm$ 323.912 χ^2 /NDF:5.0/2

Right Out: -528.675 $\pm$ 229.679 χ^2 /NDF: 13.8/18

Left In: -307.543 $\pm$ 370.859 χ^2 /NDF:2.4/1

Left: -93.615 $\pm$ 243.961 χ^2 /NDF: 8.0/4

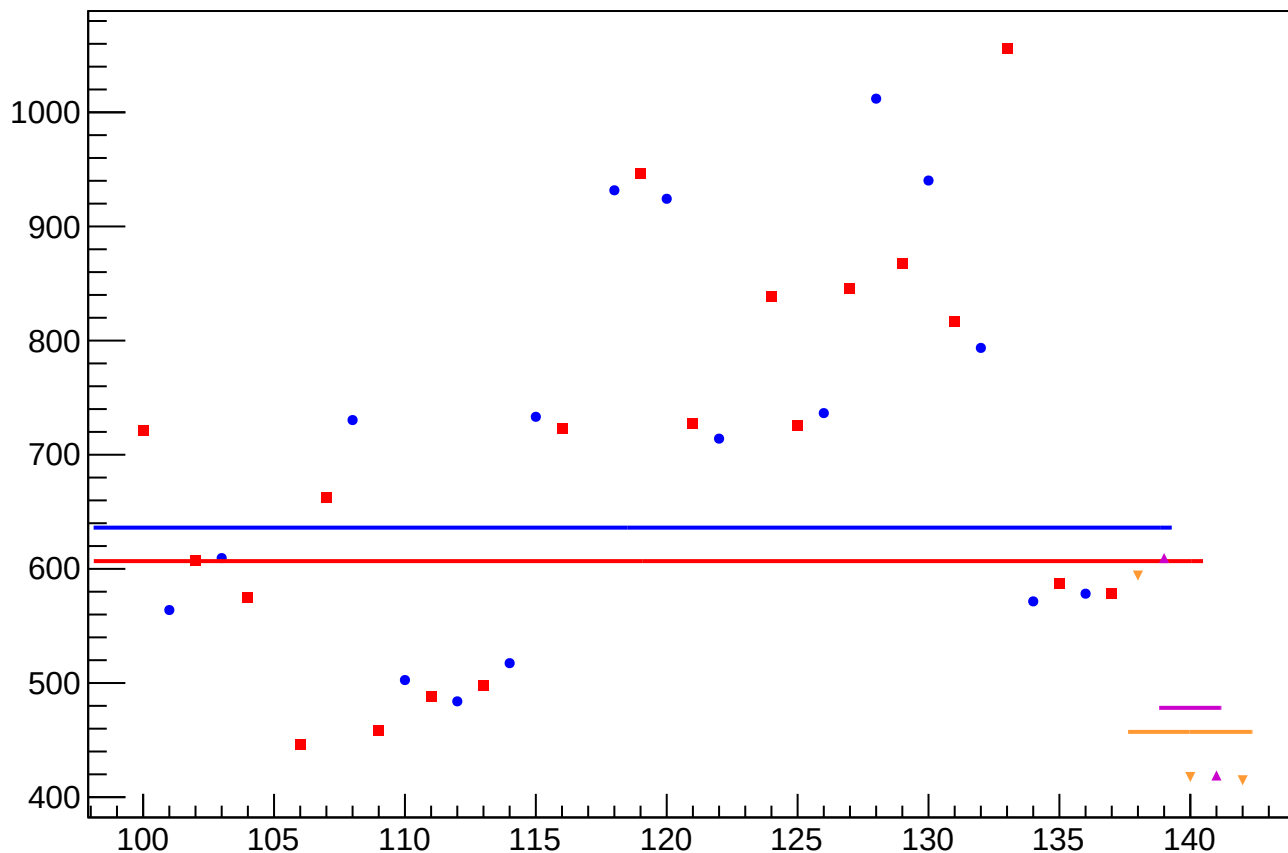
Right: -181.337 $\pm$ 167.176 χ^2 /NDF: 41.1/34

In: 53.842 $\pm$ 203.720 χ^2 /NDF:26.2/17

Out: -328.516 $\pm$ 187.358 χ^2 /NDF:21.0/21

All: -153.307 $\pm$ 137.904 χ^2 /NDF: 49.2/39

asym_sam_15_48_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 636.144 $\pm$ 0.172 χ^2 /NDF: 705237.7/15

Left Out: 457.183 $\pm$ 0.229 χ^2 /NDF:105795.7/2

Right Out: 606.803 $\pm$ 0.162 χ^2 /NDF: 893878.7/18

Left In: 478.260 $\pm$ 0.262 χ^2 /NDF:113088.7/1

Left: 466.304 $\pm$ 0.173 χ^2 /NDF: 222548.7/4

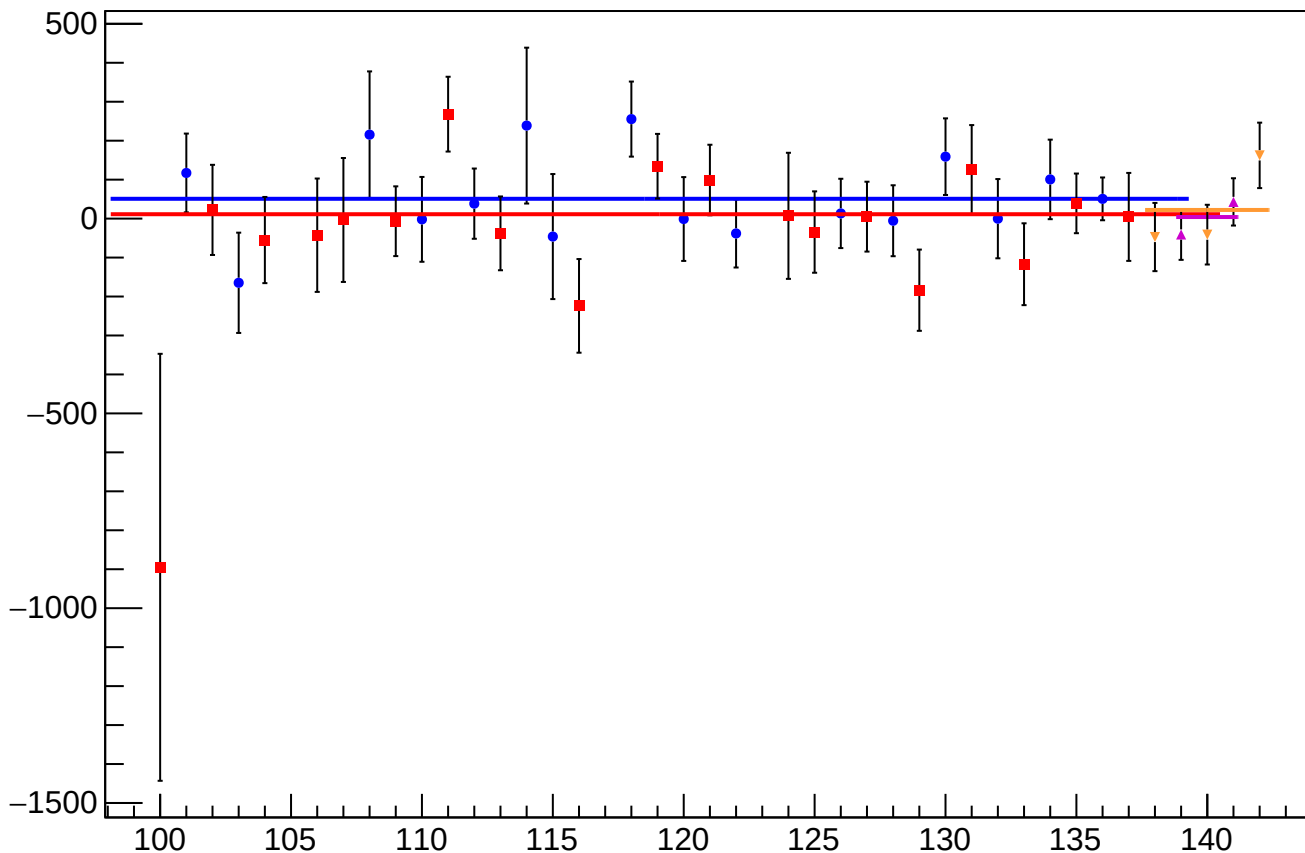
Right: 620.599 $\pm$ 0.118 χ^2 /NDF: 1614464.0/34

In: 588.502 $\pm$ 0.144 χ^2 /NDF:1071431.1/17

Out: 556.744 $\pm$ 0.132 χ^2 /NDF:1283632.4/21

All: 571.297 $\pm$ 0.098 χ^2 /NDF: 2381395.0/39

eigen_dit_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 50.859 $\pm$ 24.492 χ^2 /NDF: 13.8/15

Left Out: 22.211 $\pm$ 47.547 χ^2 /NDF:4.1/2

Right Out: 11.261 $\pm$ 24.324 χ^2 /NDF: 24.0/18

Left In: 4.044 $\pm$ 44.410 χ^2 /NDF:0.9/1

Left: 12.509 $\pm$ 32.455 χ^2 /NDF: 5.1/4

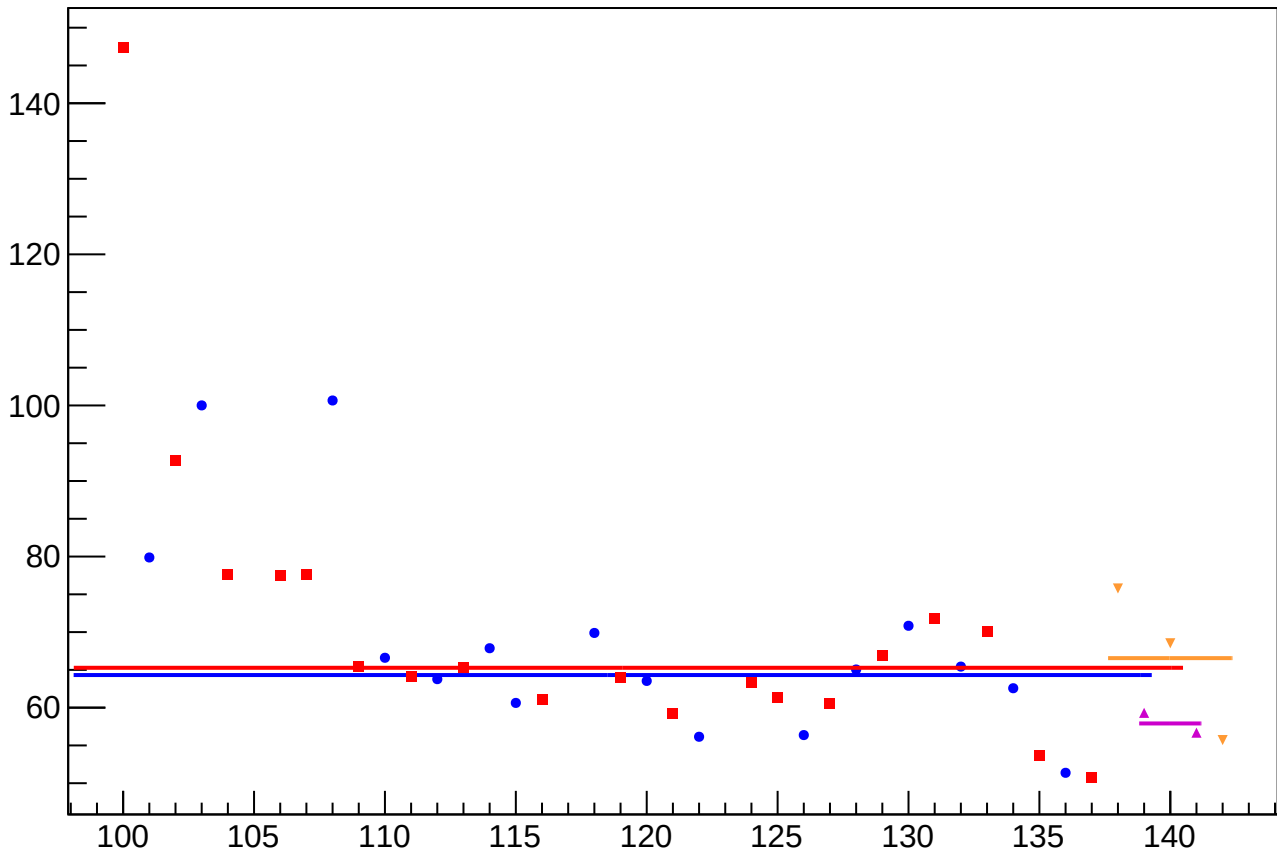
Right: 30.924 $\pm$ 17.259 χ^2 /NDF: 39.1/34

In: 39.941 $\pm$ 21.447 χ^2 /NDF:15.5/17

Out: 13.532 $\pm$ 21.655 χ^2 /NDF:28.2/21

All: 26.864 $\pm$ 15.238 χ^2 /NDF: 44.4/39

eigen_dit_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.317 $\pm$ 0.017 χ^2 /NDF: 464950.5/15

Left Out: 66.555 $\pm$ 0.034 χ^2 /NDF: 56827.3/2

Right Out: 65.277 $\pm$ 0.017 χ^2 /NDF: 319140.2/18

Left In: 57.909 $\pm$ 0.031 χ^2 /NDF: 1737.6/1

Left: 61.937 $\pm$ 0.023 χ^2 /NDF: 93884.4/4

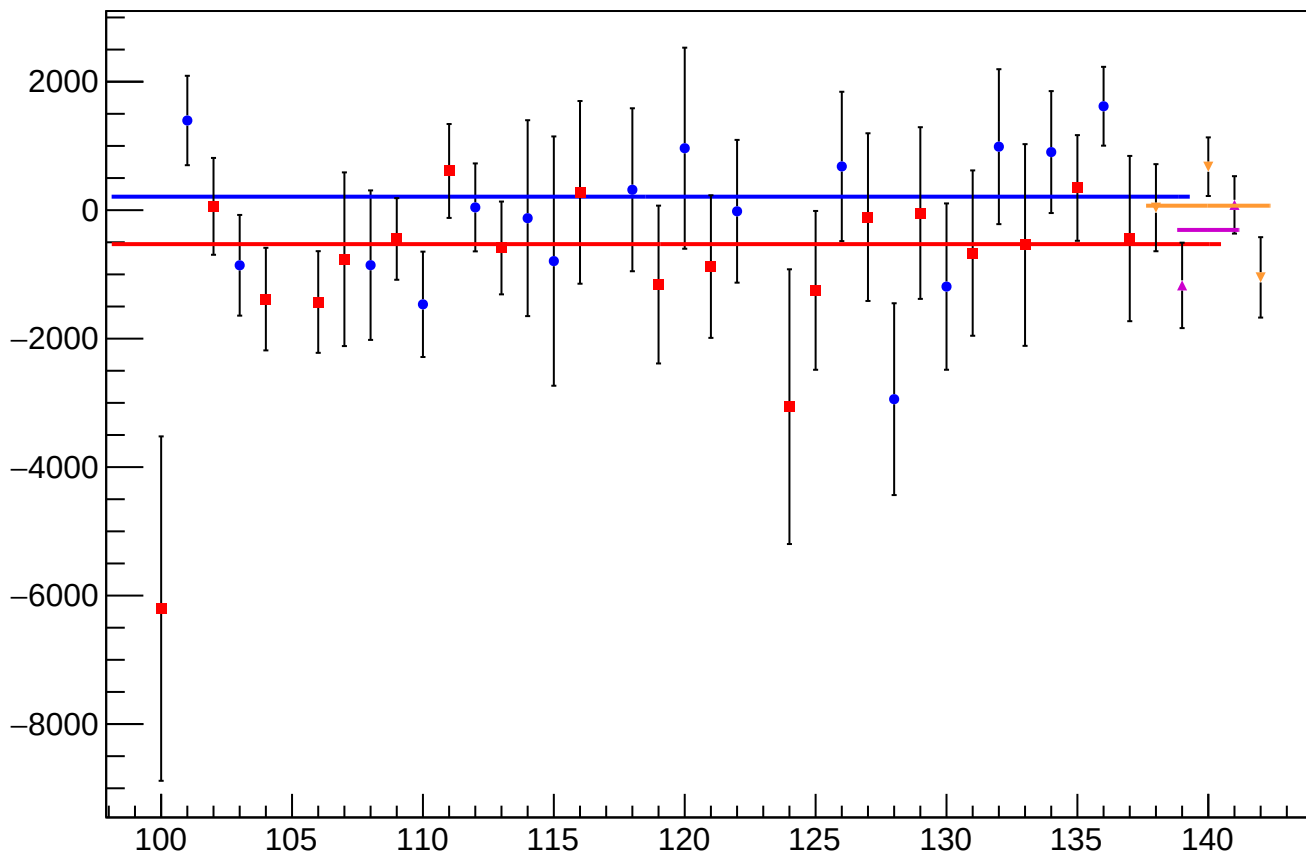
Right: 64.800 $\pm$ 0.012 χ^2 /NDF: 785639.3/34

In: 62.822 $\pm$ 0.015 χ^2 /NDF: 498617.5/17

Out: 65.542 $\pm$ 0.015 χ^2 /NDF: 377111.7/21

All: 64.169 $\pm$ 0.011 χ^2 /NDF: 891658.0/39

asym_sam_15_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 210.017 ± 243.798 $\chi^2/\text{NDF}: 22.4/15$

Left Out: 69.583 ± 323.911 $\chi^2/\text{NDF}: 5.0/2$

Right Out: -528.674 ± 229.678 $\chi^2/\text{NDF}: 13.8/18$

Left In: -307.543 ± 370.857 $\chi^2/\text{NDF}: 2.4/1$

Left: -93.613 ± 243.960 $\chi^2/\text{NDF}: 8.0/4$

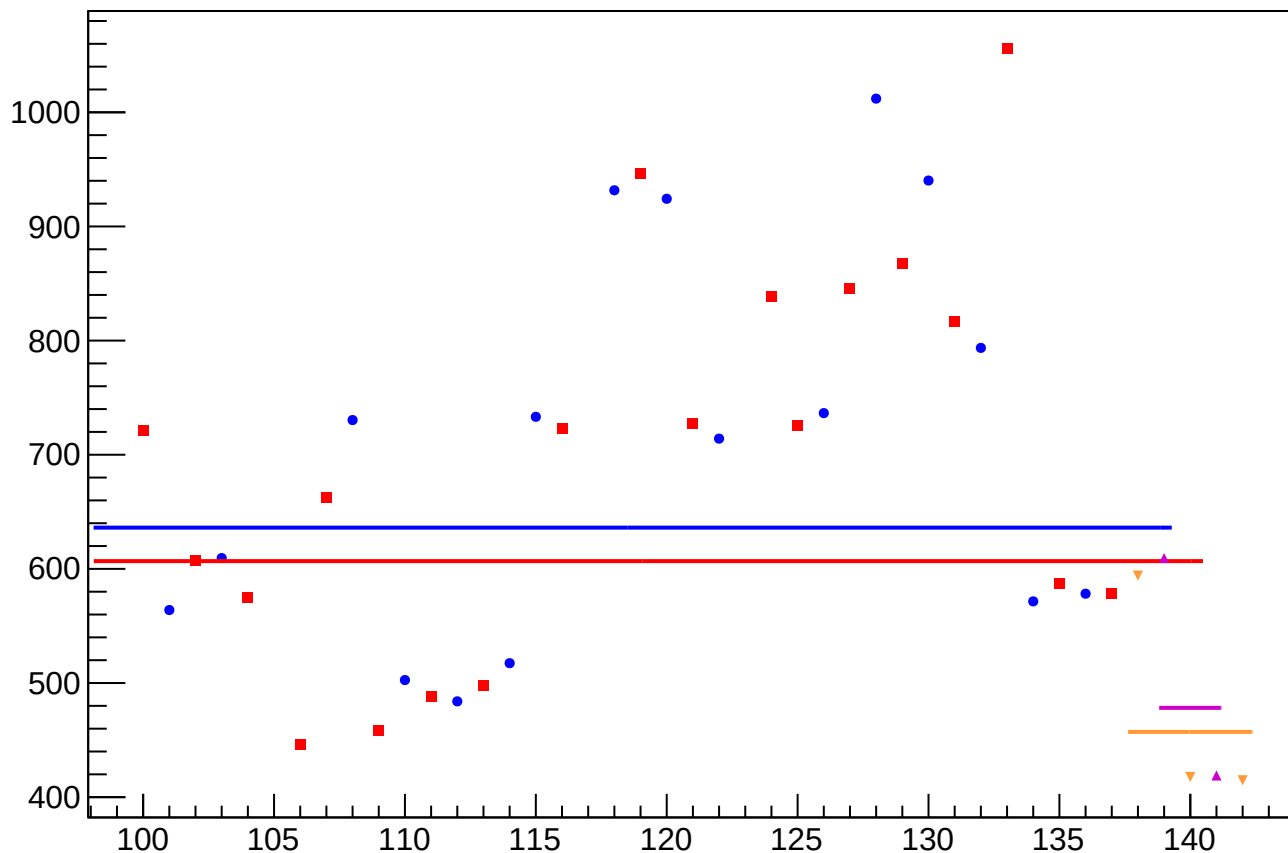
Right: -181.337 ± 167.176 $\chi^2/\text{NDF}: 41.1/34$

In: 53.841 ± 203.720 $\chi^2/\text{NDF}: 26.2/17$

Out: -328.514 ± 187.357 $\chi^2/\text{NDF}: 21.0/21$

All: -153.306 ± 137.904 $\chi^2/\text{NDF}: 49.2/39$

asym_sam_15_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 636.144+/-0.172 χ^2/NDF : 705241.1/15

Left Out: 457.182+/-0.229 χ^2/NDF : 105794.2/2

Right Out: 606.802+/-0.162 χ^2/NDF : 893880.8/18

Left In: 478.258+/-0.262 χ^2/NDF : 113089.7/1

Left: 466.303+/-0.173 χ^2/NDF : 222548.1/4

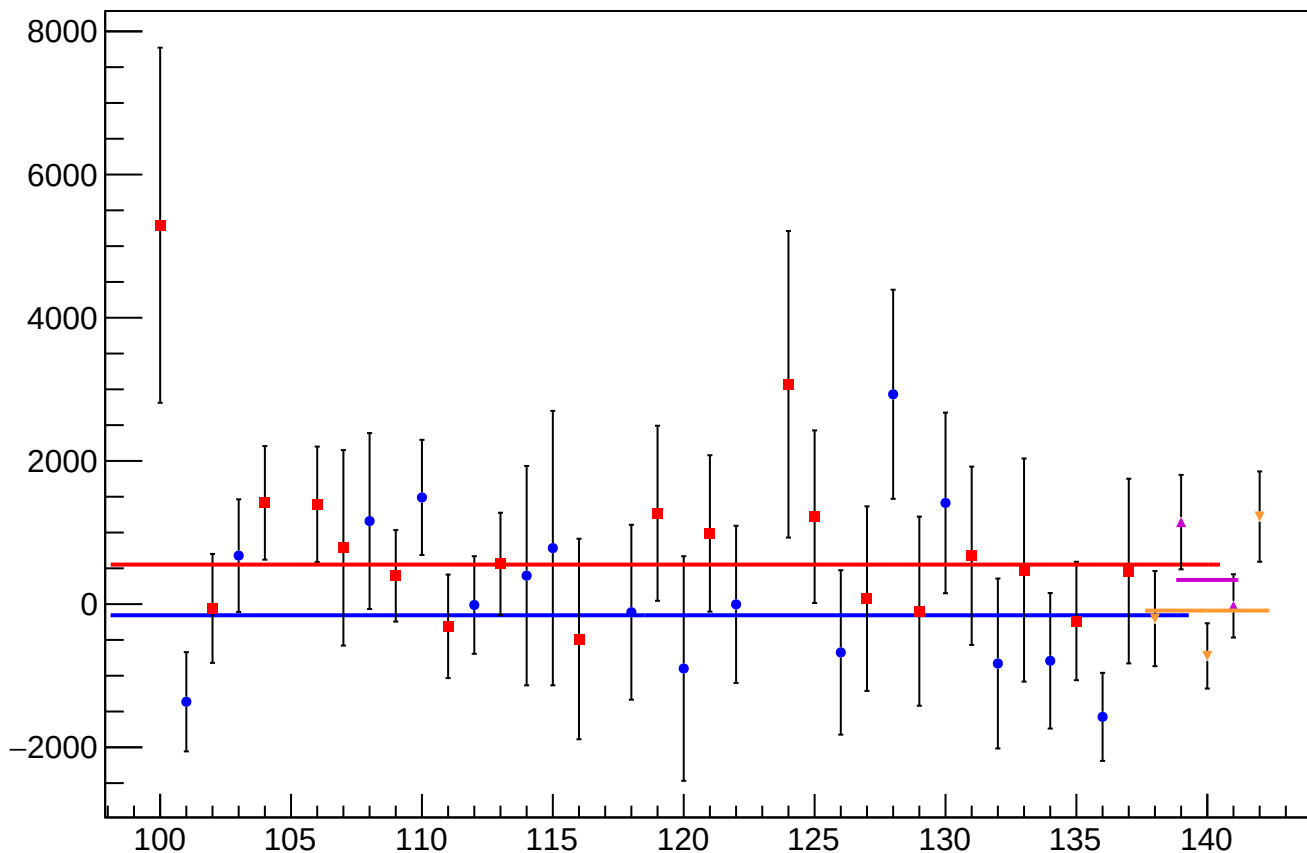
Right: 620.599+/-0.118 χ^2/NDF : 1614469.5/34

In: 588.501+/-0.144 χ^2/NDF : 1071440.0/17

Out: 556.743+/-0.132 χ^2/NDF : 1283636.1/21

All: 571.296+/-0.098 χ^2/NDF : 2381407.3/39

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -155.651 $\pm$ 242.595 χ^2 /NDF: 22.5/15

Left Out: -90.054 $\pm$ 322.986 χ^2 /NDF:6.3/2

Right Out: 552.176 $\pm$ 228.890 χ^2 /NDF: 12.1/18

Left In: 338.083 $\pm$ 367.114 χ^2 /NDF:2.2/1

Left: 96.749 $\pm$ 242.495 χ^2 /NDF: 9.2/4

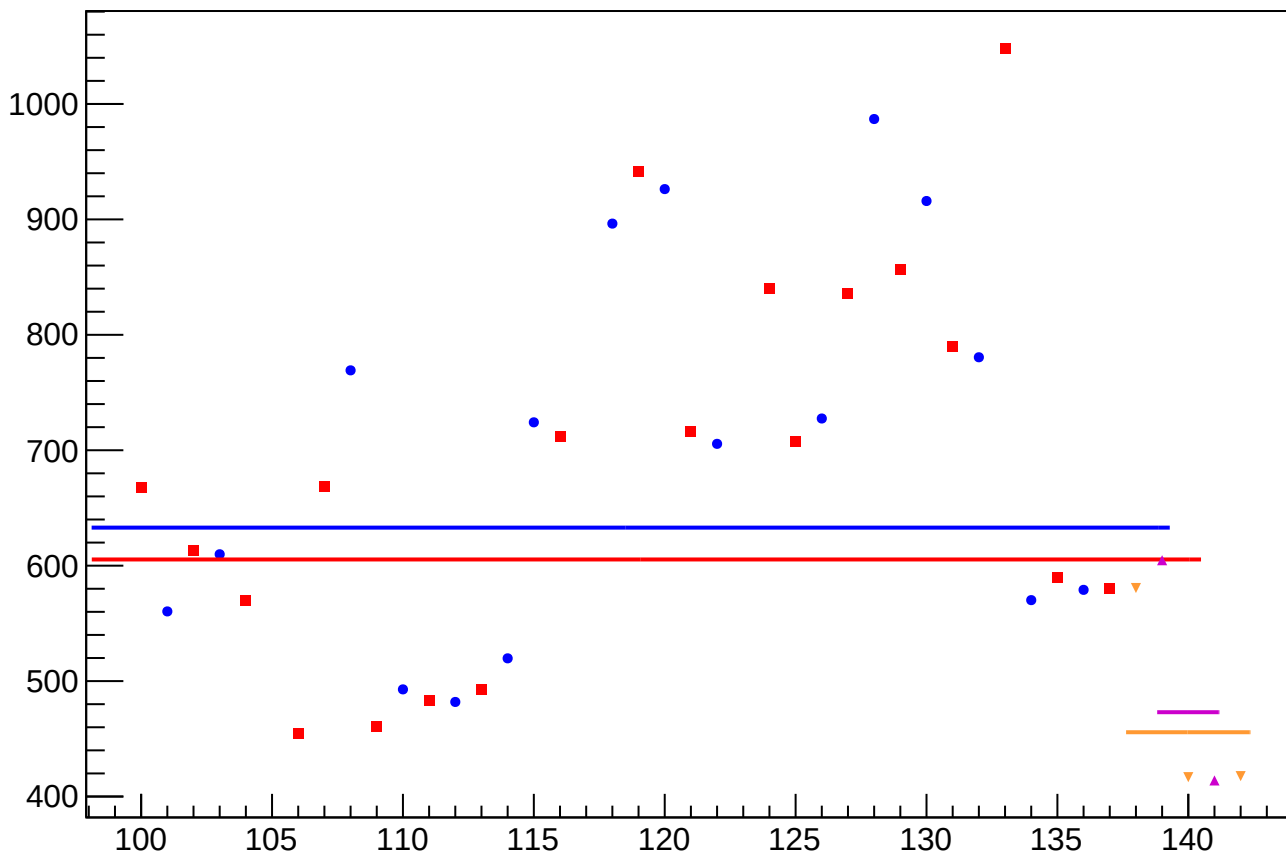
Right: 218.820 $\pm$ 166.484 χ^2 /NDF: 39.1/34

In: -5.580 $\pm$ 202.396 χ^2 /NDF:25.9/17

Out: 337.470 $\pm$ 186.750 χ^2 /NDF:21.1/21

All: 179.715 $\pm$ 137.251 χ^2 /NDF: 48.5/39

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 632.966 $\pm$ 0.172 χ^2 /NDF: 681138.4/15

Left Out: 455.700 $\pm$ 0.228 χ^2 /NDF: 92539.9/2

Right Out: 605.373 $\pm$ 0.162 χ^2 /NDF: 853994.0/18

Left In: 473.050 $\pm$ 0.260 χ^2 /NDF: 115514.1/1

Left: 463.270 $\pm$ 0.171 χ^2 /NDF: 210572.3/4

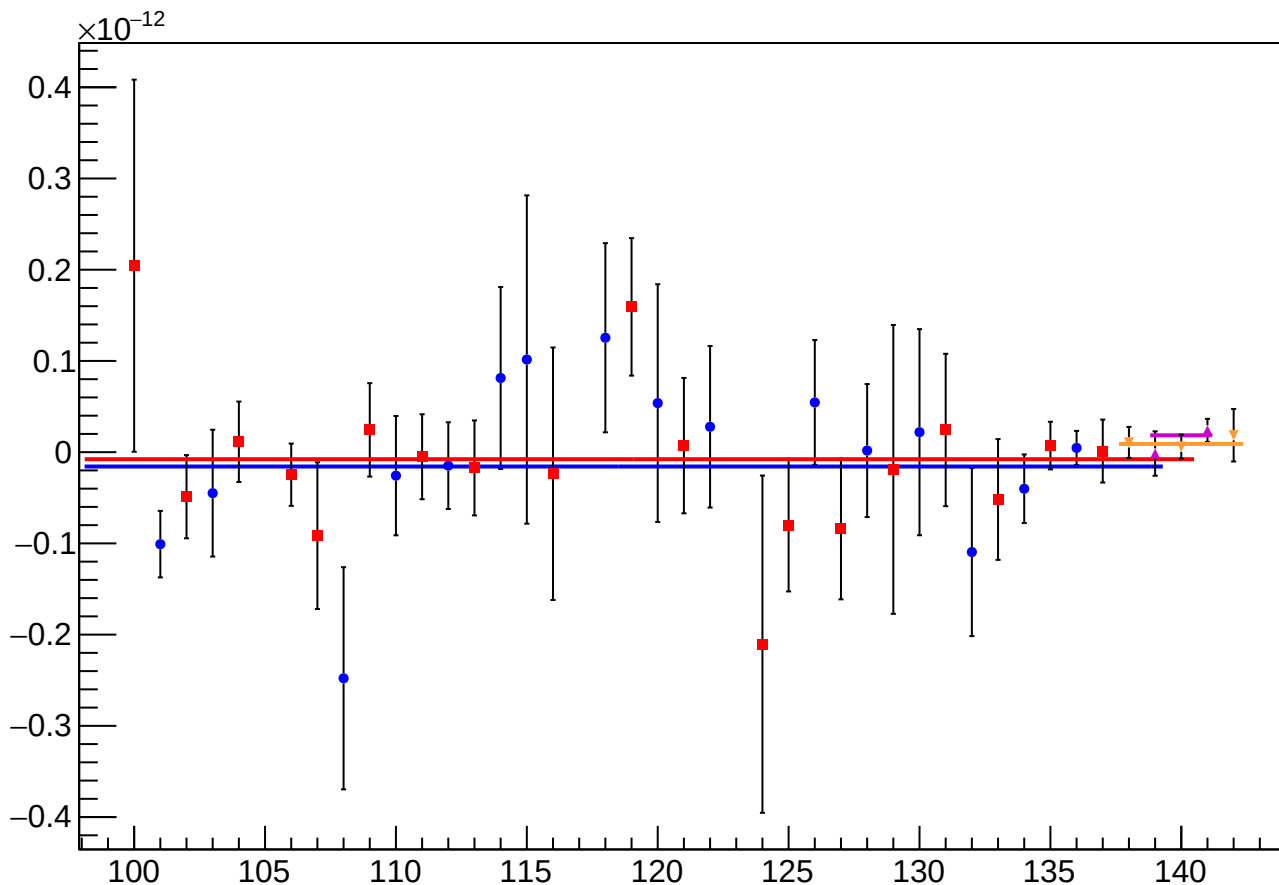
Right: 618.368 $\pm$ 0.118 χ^2 /NDF: 1548821.0/34

In: 584.360 $\pm$ 0.143 χ^2 /NDF: 1060803.0/17

Out: 555.335 $\pm$ 0.132 χ^2 /NDF: 1232438.0/21

All: 568.683 $\pm$ 0.097 χ^2 /NDF: 2315456.8/39

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 16.9/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.2/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 13.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.9/1

Left: 0.000 ± 0.000 χ^2/NDF : 1.4/4

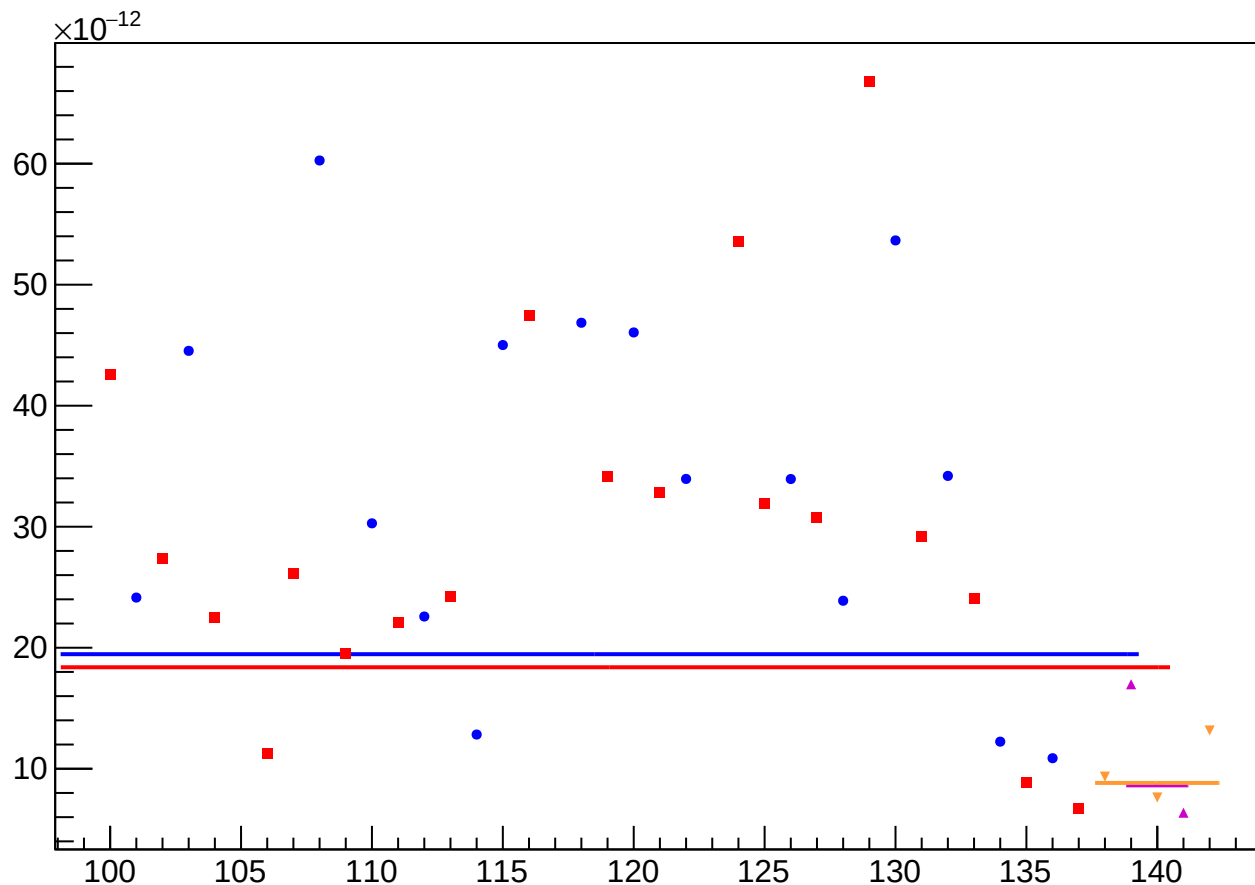
Right: -0.000 ± 0.000 χ^2/NDF : 30.1/34

In: 0.000 ± 0.000 χ^2/NDF : 21.9/17

Out: 0.000 ± 0.000 χ^2/NDF : 14.3/21

All: 0.000 ± 0.000 χ^2/NDF : 36.2/39

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1735565.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 64256.3/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1444777.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 299386.1/1

Left: 0.000+/-0.000 χ^2/NDF : 364011.1/4

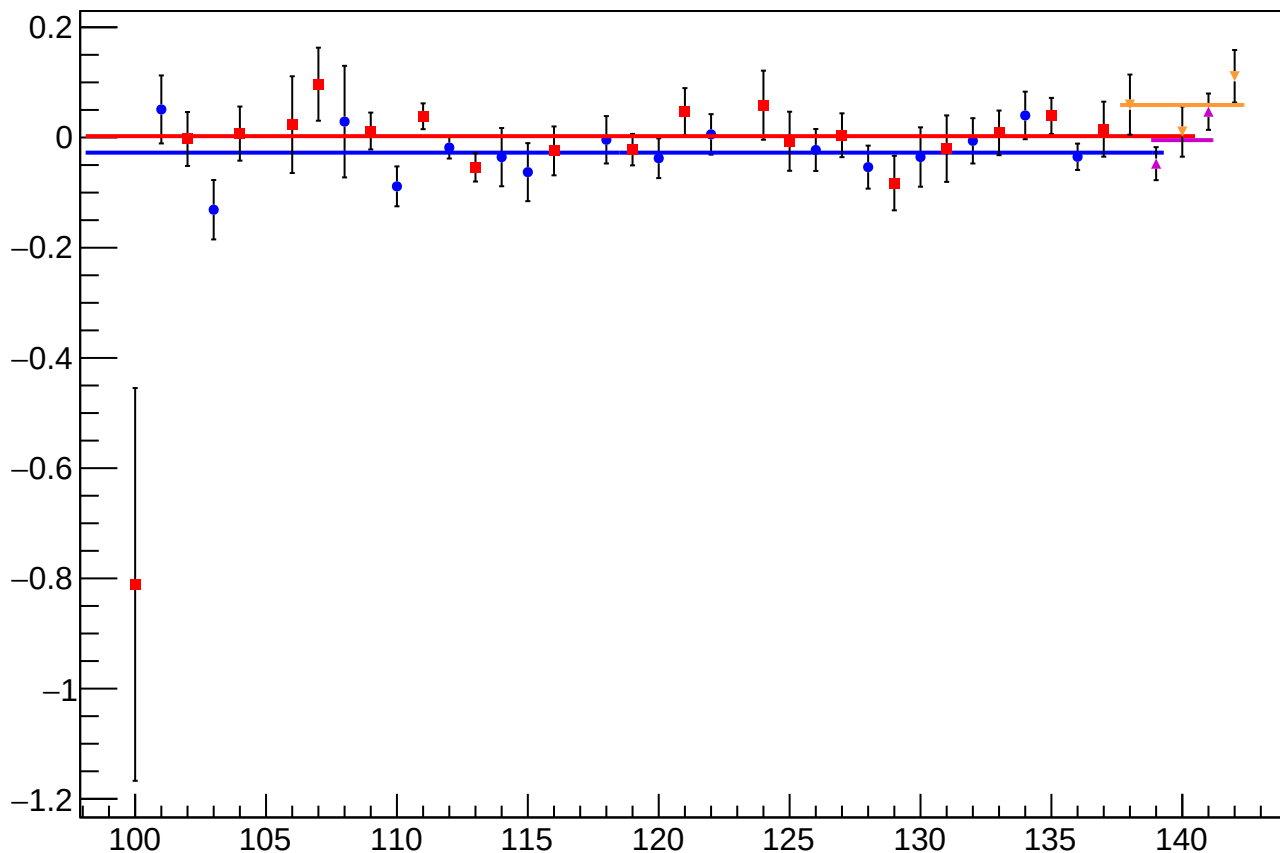
Right: 0.000+/-0.000 χ^2/NDF : 3187950.4/34

In: 0.000+/-0.000 χ^2/NDF : 2859483.5/17

Out: 0.000+/-0.000 χ^2/NDF : 2261226.2/21

All: 0.000+/-0.000 χ^2/NDF : 5132078.8/39

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.027 ± 0.009 χ^2/NDF : 13.7/15

Left Out: 0.059 ± 0.028 χ^2/NDF : 2.3/2

Right Out: 0.002 ± 0.009 χ^2/NDF : 22.1/18

Left In: -0.005 ± 0.022 χ^2/NDF : 4.5/1

Left: 0.020 ± 0.017 χ^2/NDF : 10.0/4

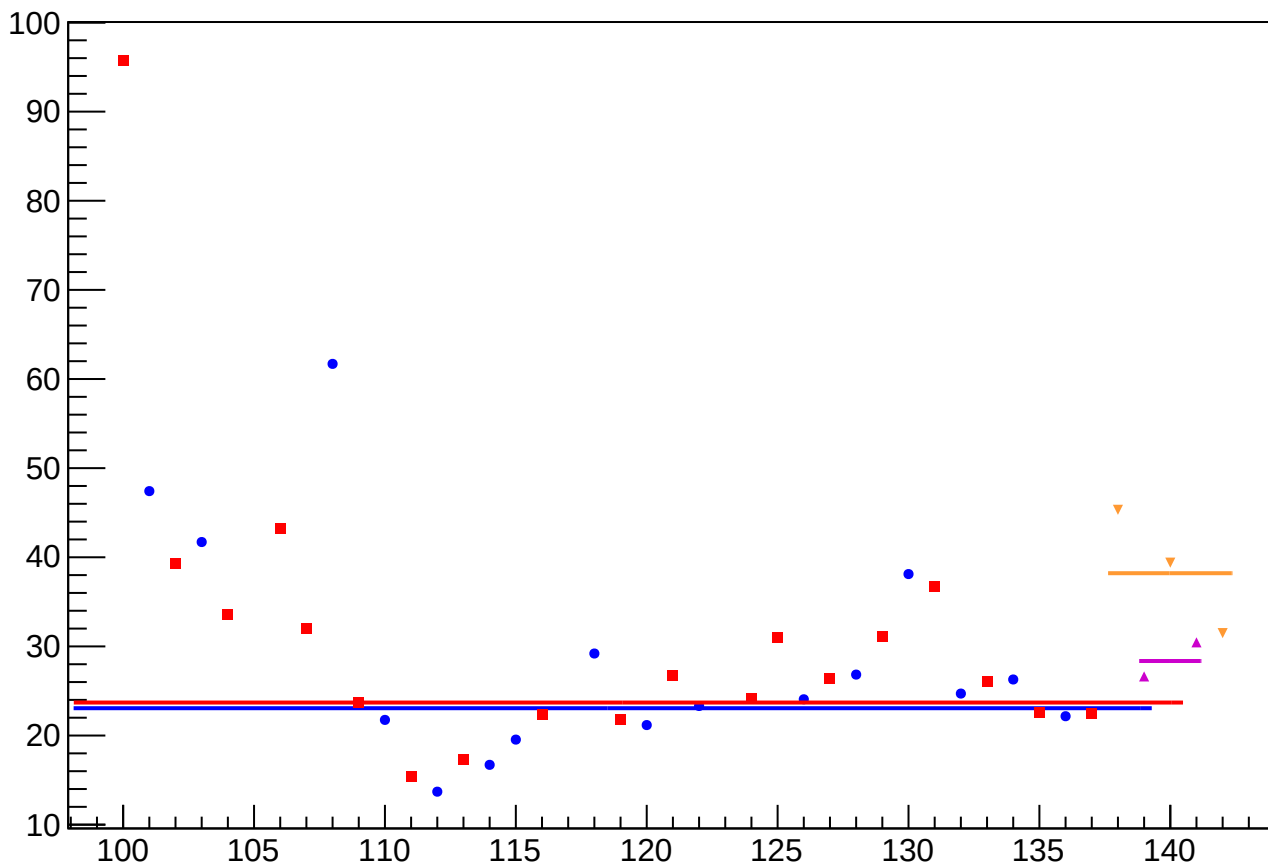
Right: -0.012 ± 0.007 χ^2/NDF : 40.9/34

In: -0.024 ± 0.009 χ^2/NDF : 19.0/17

Out: 0.008 ± 0.009 χ^2/NDF : 28.0/21

All: -0.008 ± 0.006 χ^2/NDF : 53.8/39

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.066 $\pm$ 0.007 χ^2/NDF : 1564478.6/15

Left Out: 38.212 $\pm$ 0.020 χ^2/NDF : 75253.8/2

Right Out: 23.702 $\pm$ 0.007 χ^2/NDF : 1088494.2/18

Left In: 28.362 $\pm$ 0.016 χ^2/NDF : 14757.4/1

Left: 32.124 $\pm$ 0.012 χ^2/NDF : 240912.1/4

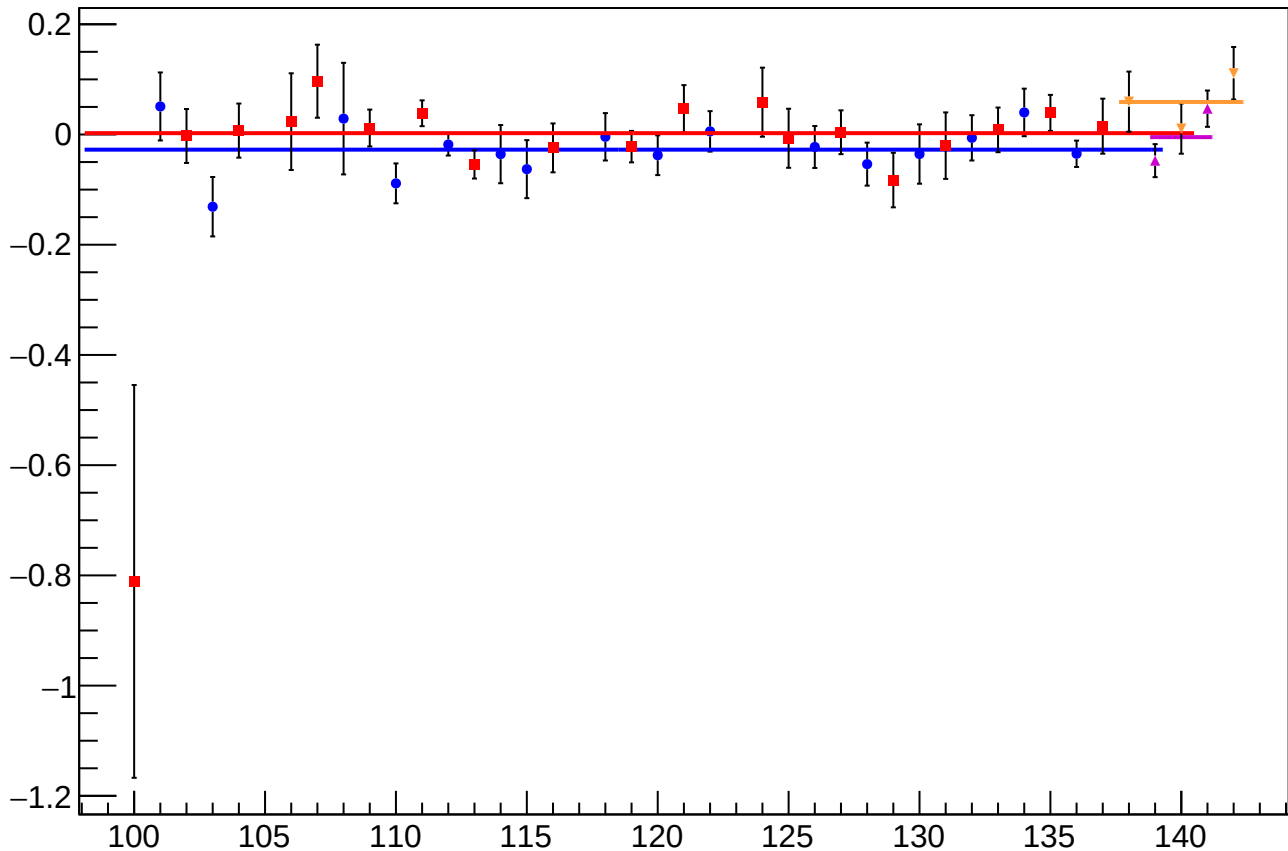
Right: 23.387 $\pm$ 0.005 χ^2/NDF : 2657617.1/34

In: 23.872 $\pm$ 0.006 χ^2/NDF : 1676088.3/17

Out: 25.124 $\pm$ 0.006 χ^2/NDF : 1641649.2/21

All: 24.486 $\pm$ 0.004 χ^2/NDF : 3338259.3/39

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.027 ± 0.009 χ^2/NDF : 13.7/15

Left Out: 0.059 ± 0.028 χ^2/NDF : 2.3/2

Right Out: 0.002 ± 0.009 χ^2/NDF : 22.1/18

Left In: -0.005 ± 0.022 χ^2/NDF : 4.5/1

Left: 0.020 ± 0.017 χ^2/NDF : 10.0/4

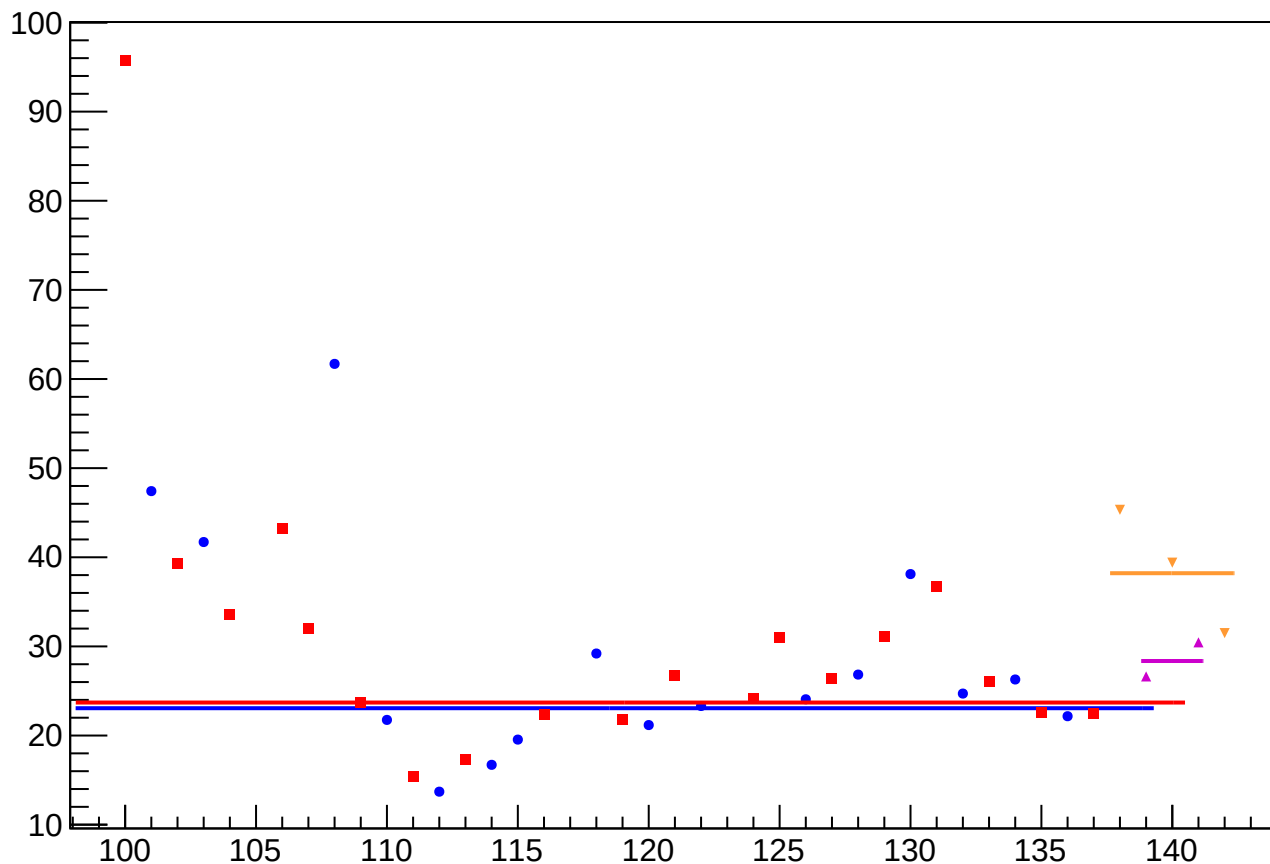
Right: -0.012 ± 0.007 χ^2/NDF : 40.9/34

In: -0.024 ± 0.009 χ^2/NDF : 19.0/17

Out: 0.008 ± 0.009 χ^2/NDF : 28.0/21

All: -0.008 ± 0.006 χ^2/NDF : 53.8/39

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.066 $\pm$ 0.007 χ^2 /NDF: 1564478.6/15

Left Out: 38.212 $\pm$ 0.020 χ^2 /NDF: 75253.8/2

Right Out: 23.702 $\pm$ 0.007 χ^2 /NDF: 1088494.2/18

Left In: 28.362 $\pm$ 0.016 χ^2 /NDF: 14757.4/1

Left: 32.124 $\pm$ 0.012 χ^2 /NDF: 240912.1/4

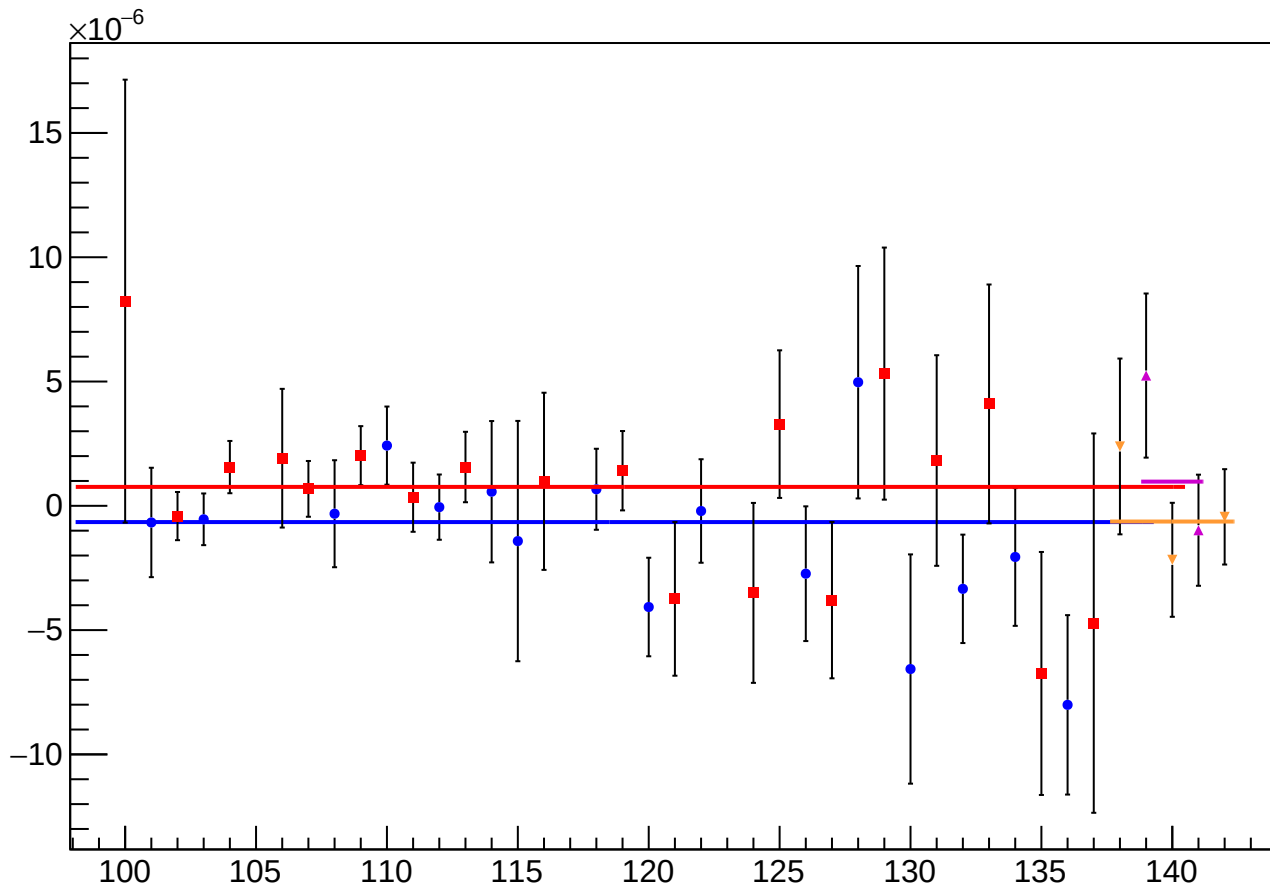
Right: 23.387 $\pm$ 0.005 χ^2 /NDF: 2657617.1/34

In: 23.872 $\pm$ 0.006 χ^2 /NDF: 1676088.3/17

Out: 25.124 $\pm$ 0.006 χ^2 /NDF: 1641649.2/21

All: 24.486 $\pm$ 0.004 χ^2 /NDF: 3338259.3/39

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 17.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 15.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 2.4/1

Left: -0.000+/-0.000 χ^2/NDF : 4.1/4

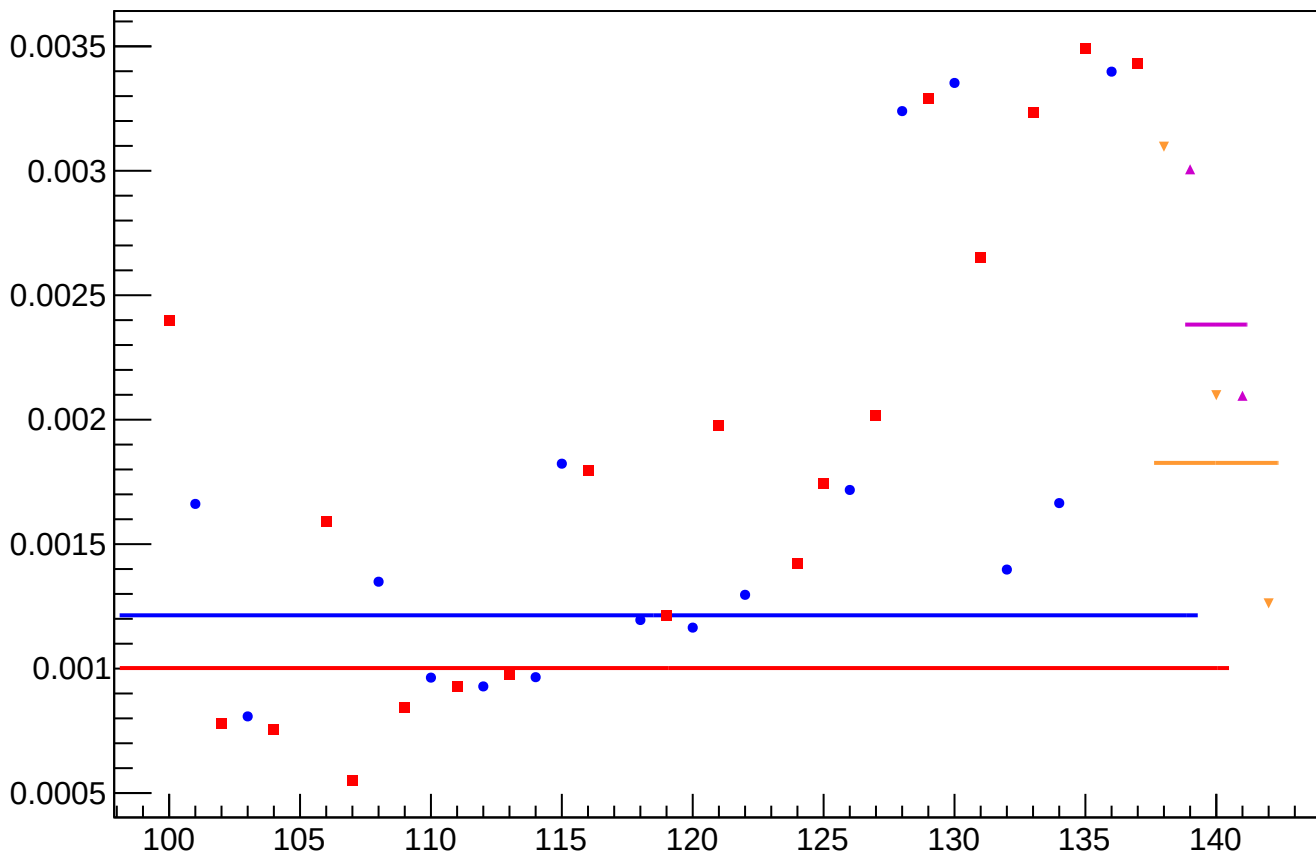
Right: 0.000+/-0.000 χ^2/NDF : 37.5/34

In: -0.000+/-0.000 χ^2/NDF : 20.7/17

Out: 0.000+/-0.000 χ^2/NDF : 17.3/21

All: 0.000+/-0.000 χ^2/NDF : 41.6/39

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 2267402.2/15

Left Out: 0.002+/-0.000 χ^2/NDF : 459381.4/2

Right Out: 0.001+/-0.000 χ^2/NDF : 3277225.7/18

Left In: 0.002+/-0.000 χ^2/NDF : 104158.2/1

Left: 0.002+/-0.000 χ^2/NDF : 680703.2/4

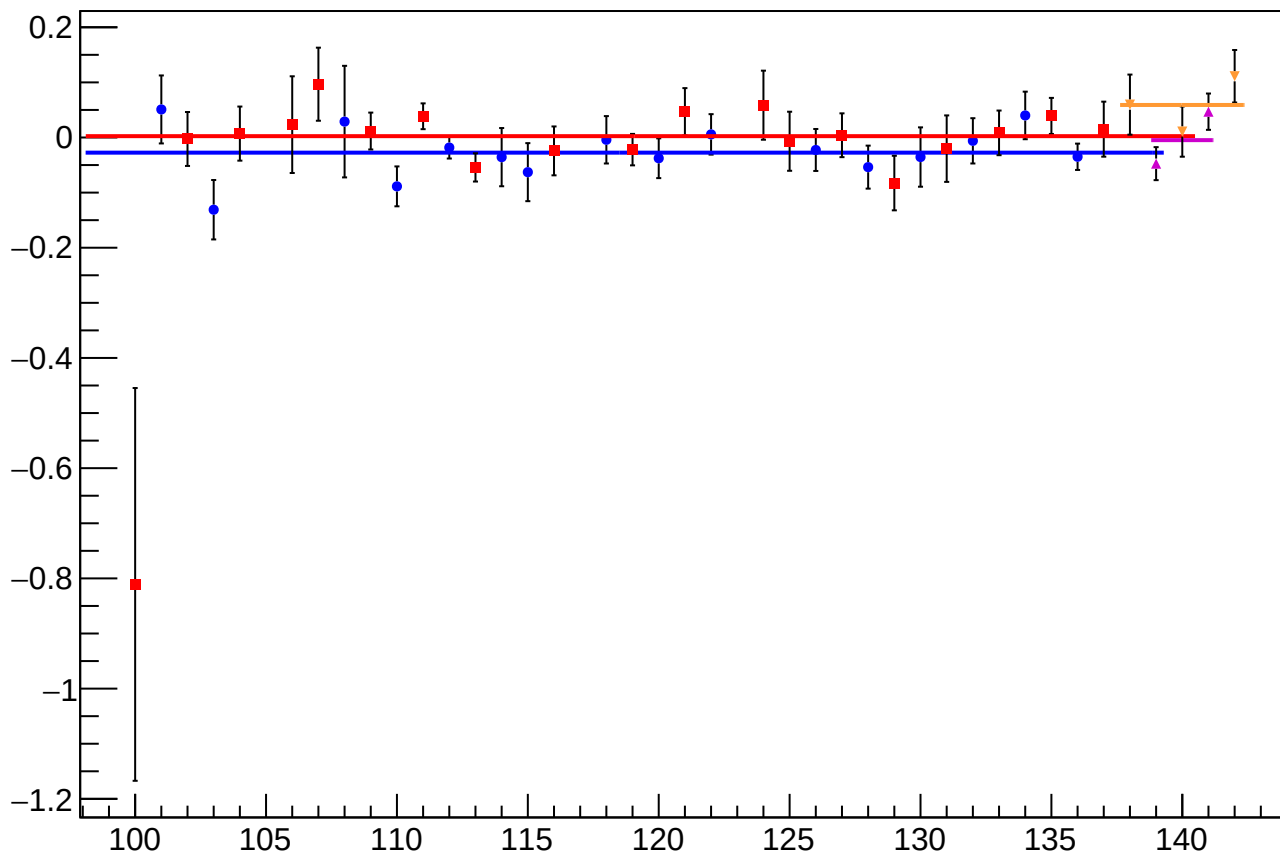
Right: 0.001+/-0.000 χ^2/NDF : 5755876.1/34

In: 0.001+/-0.000 χ^2/NDF : 3114001.9/17

Out: 0.001+/-0.000 χ^2/NDF : 4408911.4/21

All: 0.001+/-0.000 χ^2/NDF : 7768288.5/39

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.027 ± 0.009 χ^2/NDF : 13.7/15

Left Out: 0.059 ± 0.028 χ^2/NDF : 2.3/2

Right Out: 0.002 ± 0.009 χ^2/NDF : 22.1/18

Left In: -0.005 ± 0.022 χ^2/NDF : 4.5/1

Left: 0.020 ± 0.017 χ^2/NDF : 10.0/4

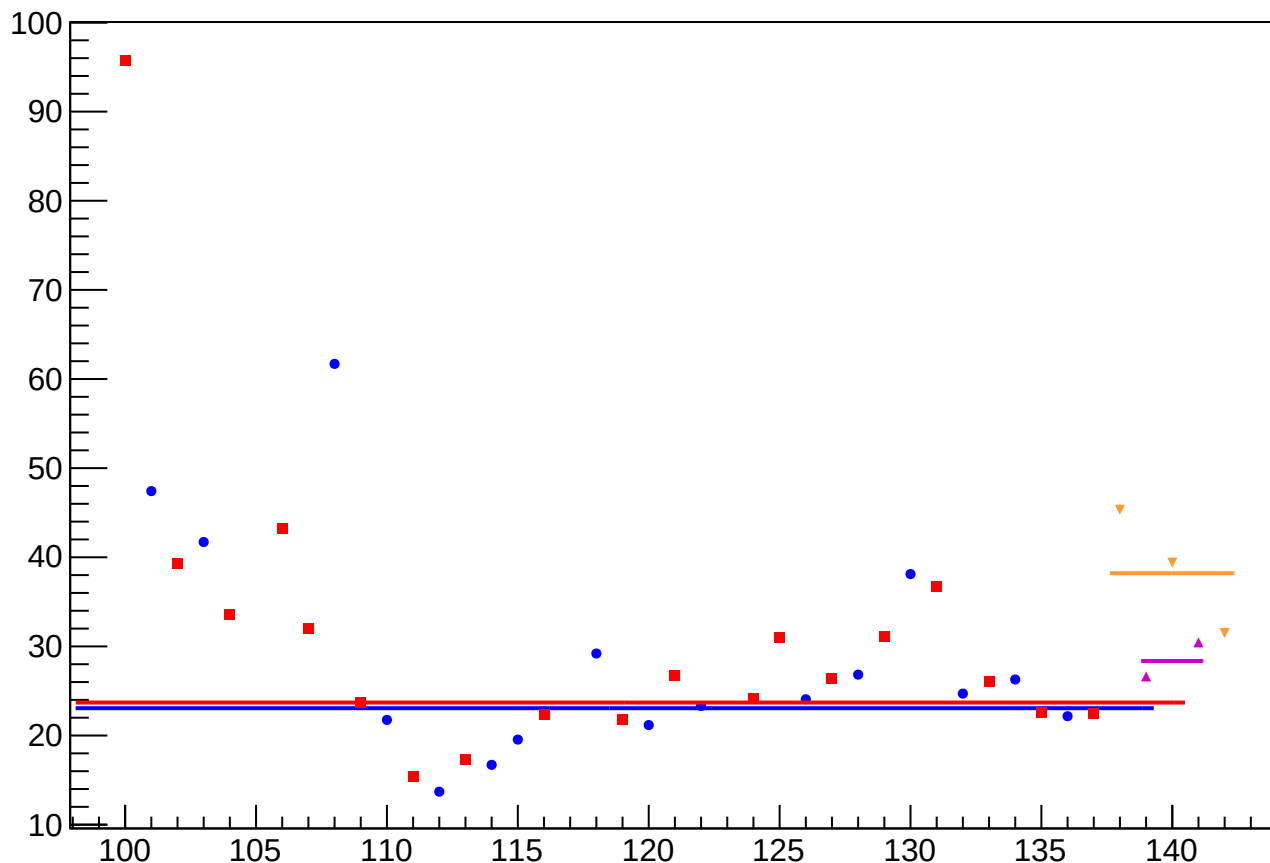
Right: -0.012 ± 0.007 χ^2/NDF : 40.9/34

In: -0.024 ± 0.009 χ^2/NDF : 19.0/17

Out: 0.008 ± 0.009 χ^2/NDF : 28.0/21

All: -0.008 ± 0.006 χ^2/NDF : 53.8/39

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.065 $\pm$ 0.007 χ^2 /NDF: 1564493.0/15

Left Out: 38.212 $\pm$ 0.020 χ^2 /NDF: 75242.9/2

Right Out: 23.702 $\pm$ 0.007 χ^2 /NDF: 1088531.8/18

Left In: 28.362 $\pm$ 0.016 χ^2 /NDF: 14765.0/1

Left: 32.124 $\pm$ 0.012 χ^2 /NDF: 240924.3/4

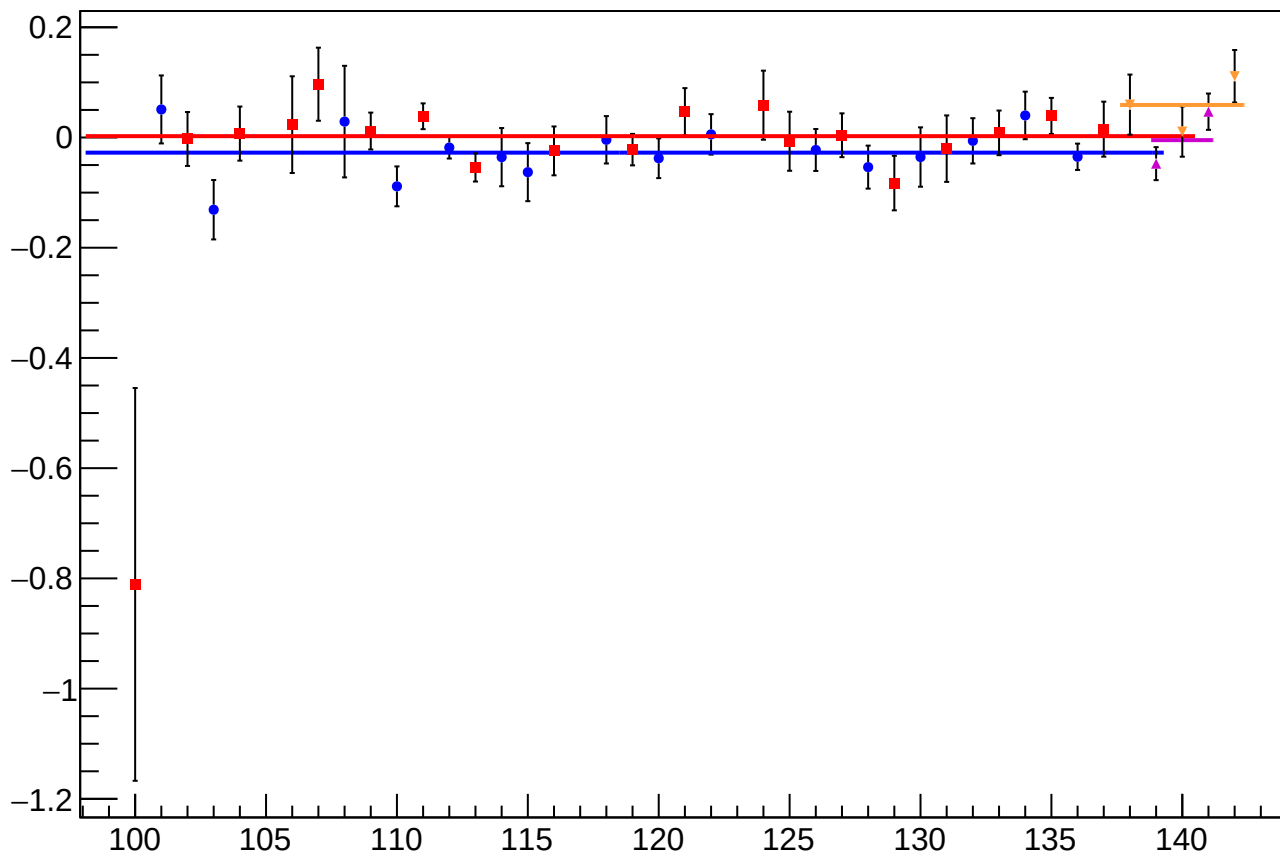
Right: 23.387 $\pm$ 0.005 χ^2 /NDF: 2657668.5/34

In: 23.872 $\pm$ 0.006 χ^2 /NDF: 1676100.5/17

Out: 25.124 $\pm$ 0.006 χ^2 /NDF: 1641686.4/21

All: 24.485 $\pm$ 0.004 χ^2 /NDF: 3338309.0/39

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.027 ± 0.009 χ^2/NDF : 13.7/15

Left Out: 0.059 ± 0.028 χ^2/NDF : 2.3/2

Right Out: 0.002 ± 0.009 χ^2/NDF : 22.1/18

Left In: -0.005 ± 0.022 χ^2/NDF : 4.5/1

Left: 0.020 ± 0.017 χ^2/NDF : 10.0/4

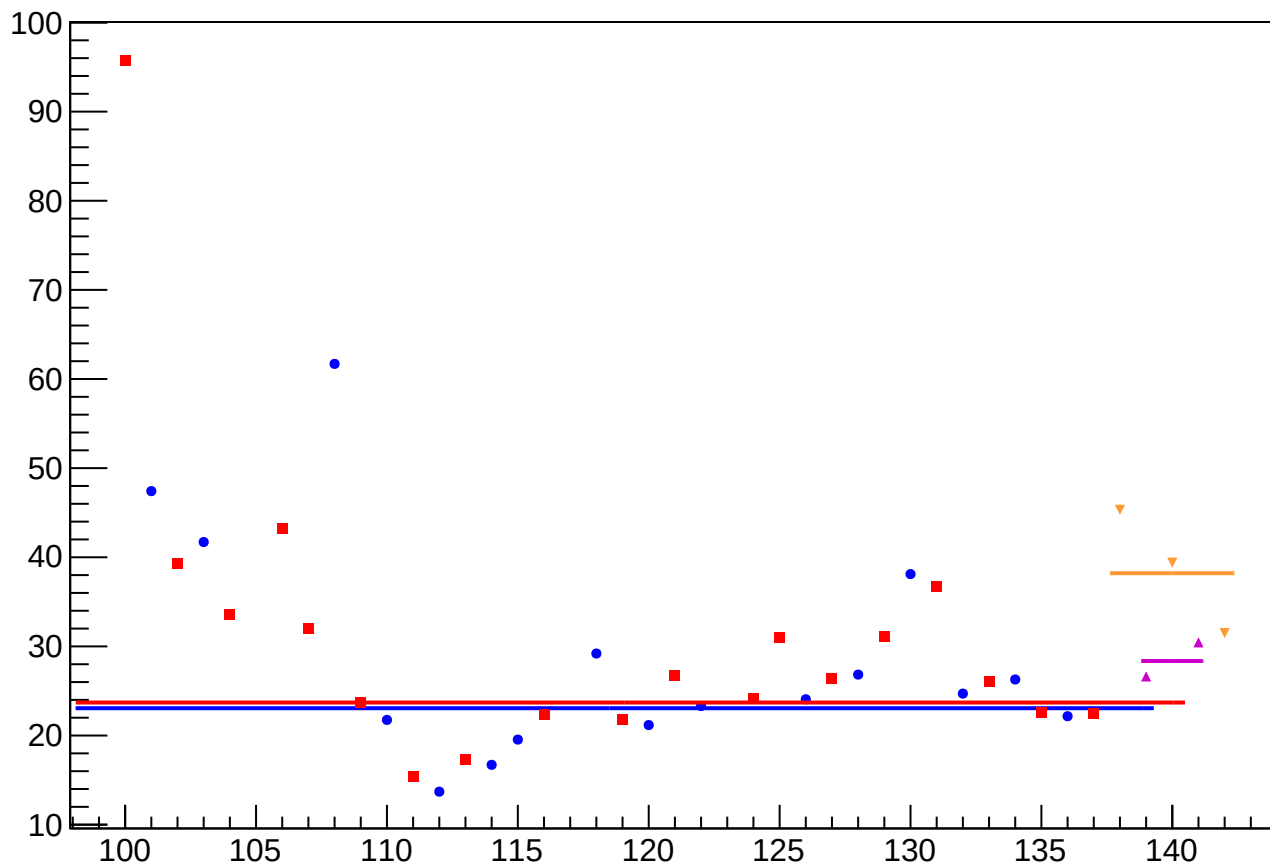
Right: -0.012 ± 0.007 χ^2/NDF : 40.9/34

In: -0.024 ± 0.009 χ^2/NDF : 19.0/17

Out: 0.008 ± 0.009 χ^2/NDF : 28.0/21

All: -0.008 ± 0.006 χ^2/NDF : 53.8/39

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.065 $\pm$ 0.007 χ^2 /NDF: 1564493.0/15

Left Out: 38.212 $\pm$ 0.020 χ^2 /NDF: 75242.9/2

Right Out: 23.702 $\pm$ 0.007 χ^2 /NDF: 1088531.8/18

Left In: 28.362 $\pm$ 0.016 χ^2 /NDF: 14765.0/1

Left: 32.124 $\pm$ 0.012 χ^2 /NDF: 240924.3/4

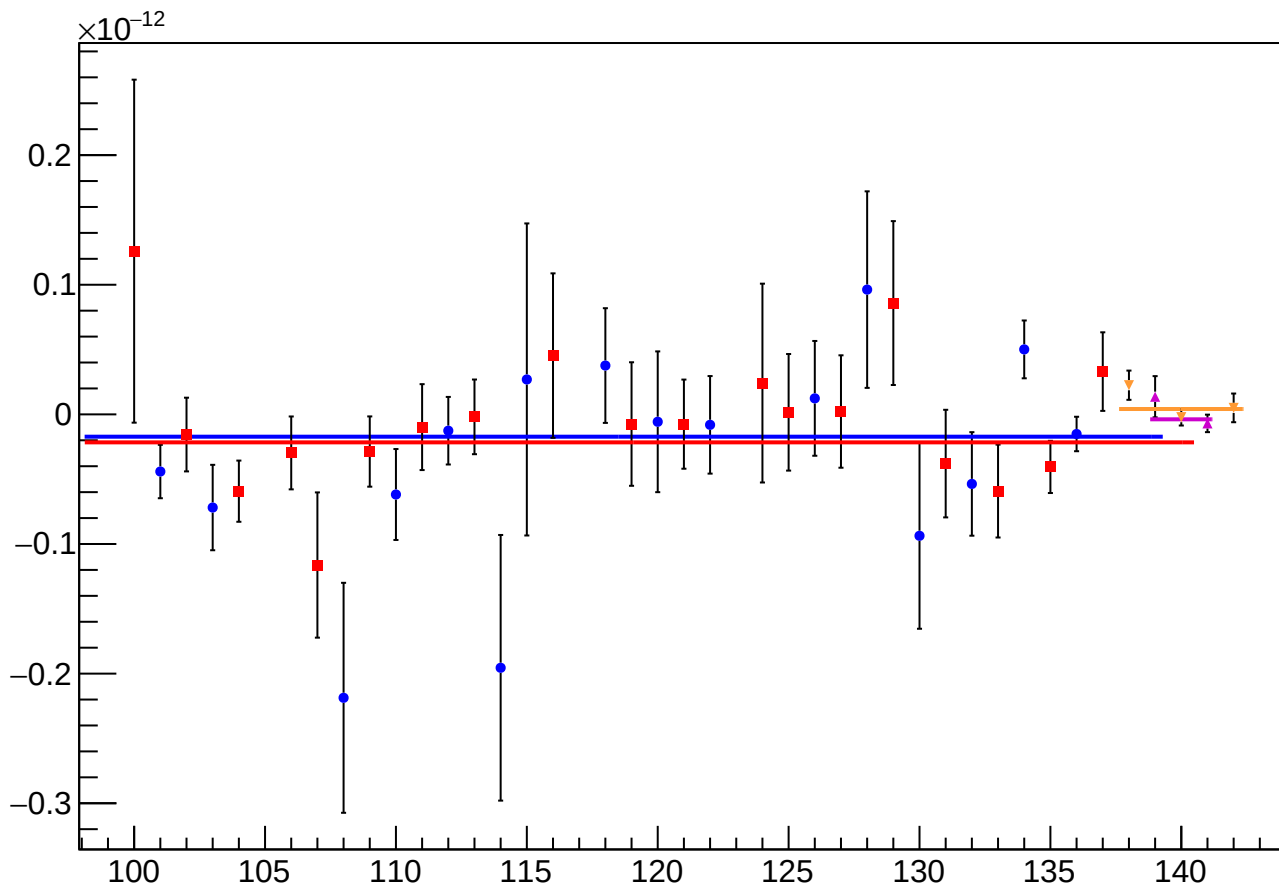
Right: 23.387 $\pm$ 0.005 χ^2 /NDF: 2657668.5/34

In: 23.872 $\pm$ 0.006 χ^2 /NDF: 1676100.5/17

Out: 25.124 $\pm$ 0.006 χ^2 /NDF: 1641686.4/21

All: 24.485 $\pm$ 0.004 χ^2 /NDF: 3338309.0/39

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 29.9/15

Left Out: 0.000+/-0.000 χ^2 /NDF:3.6/2

Right Out: -0.000+/-0.000 χ^2 /NDF: 18.0/18

Left In: -0.000+/-0.000 χ^2 /NDF:1.4/1

Left: 0.000+/-0.000 χ^2 /NDF: 6.0/4

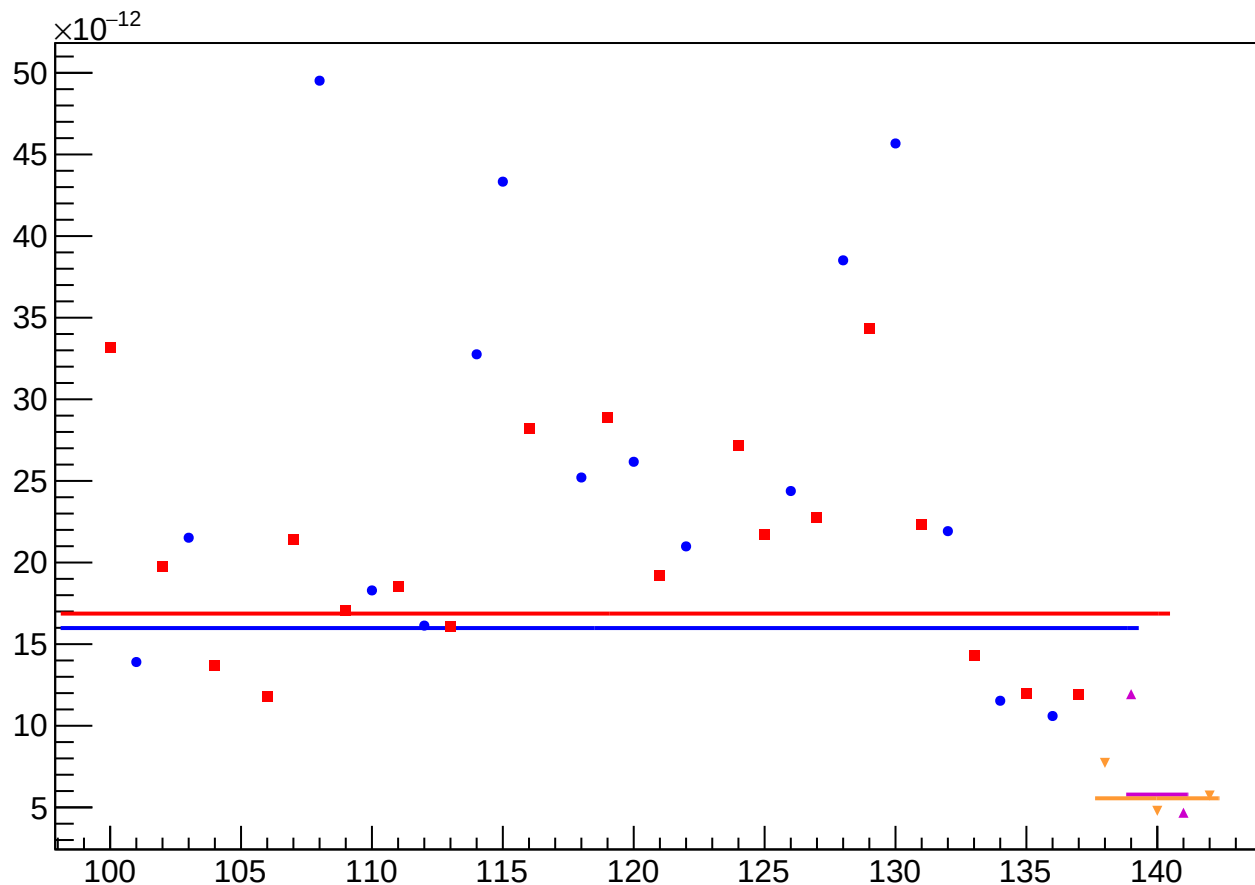
Right: -0.000+/-0.000 χ^2 /NDF: 48.0/34

In: -0.000+/-0.000 χ^2 /NDF:33.1/17

Out: -0.000+/-0.000 χ^2 /NDF:29.2/21

All: -0.000+/-0.000 χ^2 /NDF: 63.1/39

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1764617.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 102770.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 835680.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 354073.9/1

Left: 0.000+/-0.000 χ^2/NDF : 458472.8/4

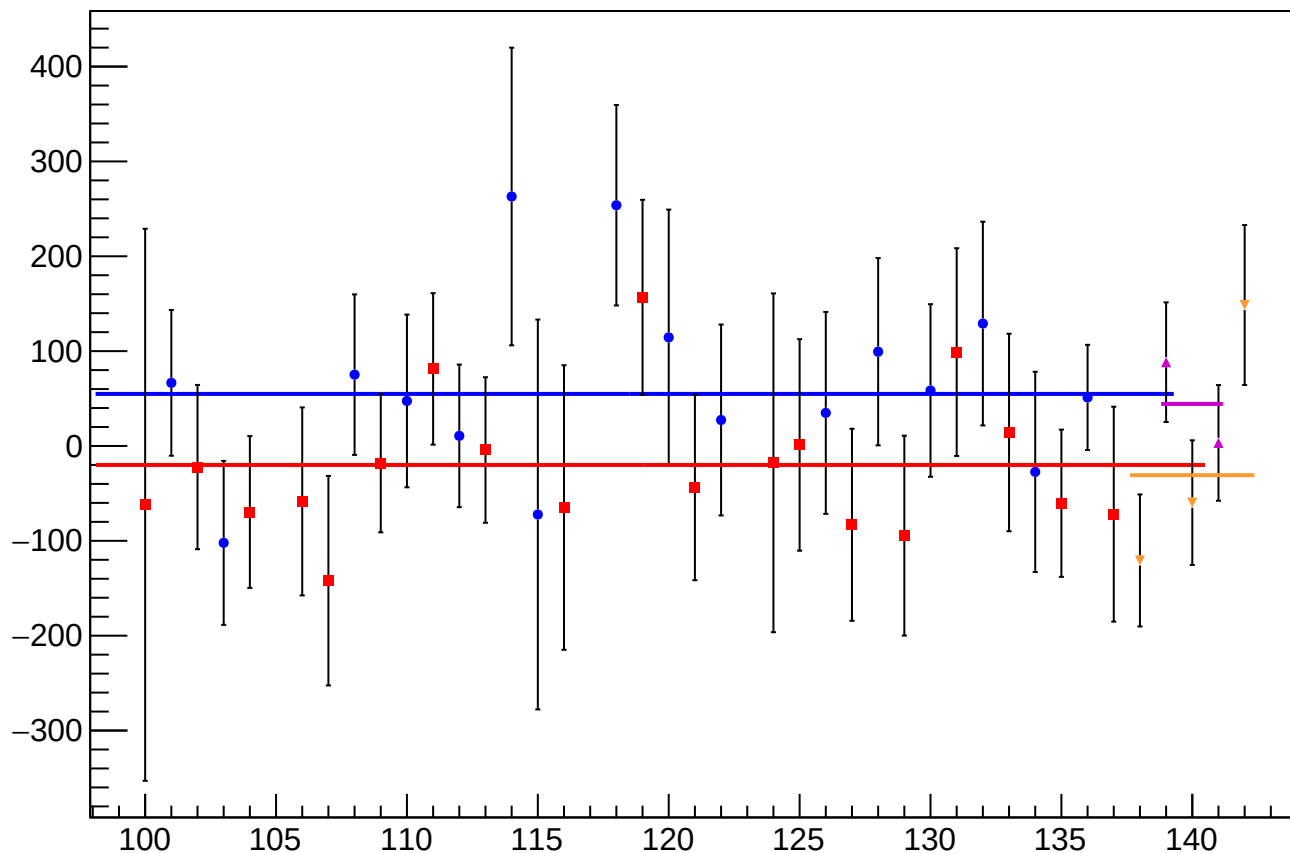
Right: 0.000+/-0.000 χ^2/NDF : 2613122.2/34

In: 0.000+/-0.000 χ^2/NDF : 4223591.0/17

Out: 0.000+/-0.000 χ^2/NDF : 3874297.3/21

All: 0.000+/-0.000 χ^2/NDF : 8143827.4/39

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 54.883 $\pm$ 23.179 χ^2 /NDF: 11.0/15

Left Out: -30.781 $\pm$ 41.560 χ^2 /NDF:6.4/2

Right Out: -20.020 $\pm$ 22.571 χ^2 /NDF: 9.2/18

Left In: 44.365 $\pm$ 43.841 χ^2 /NDF:0.9/1

Left: 4.787 $\pm$ 30.162 χ^2 /NDF: 8.9/4

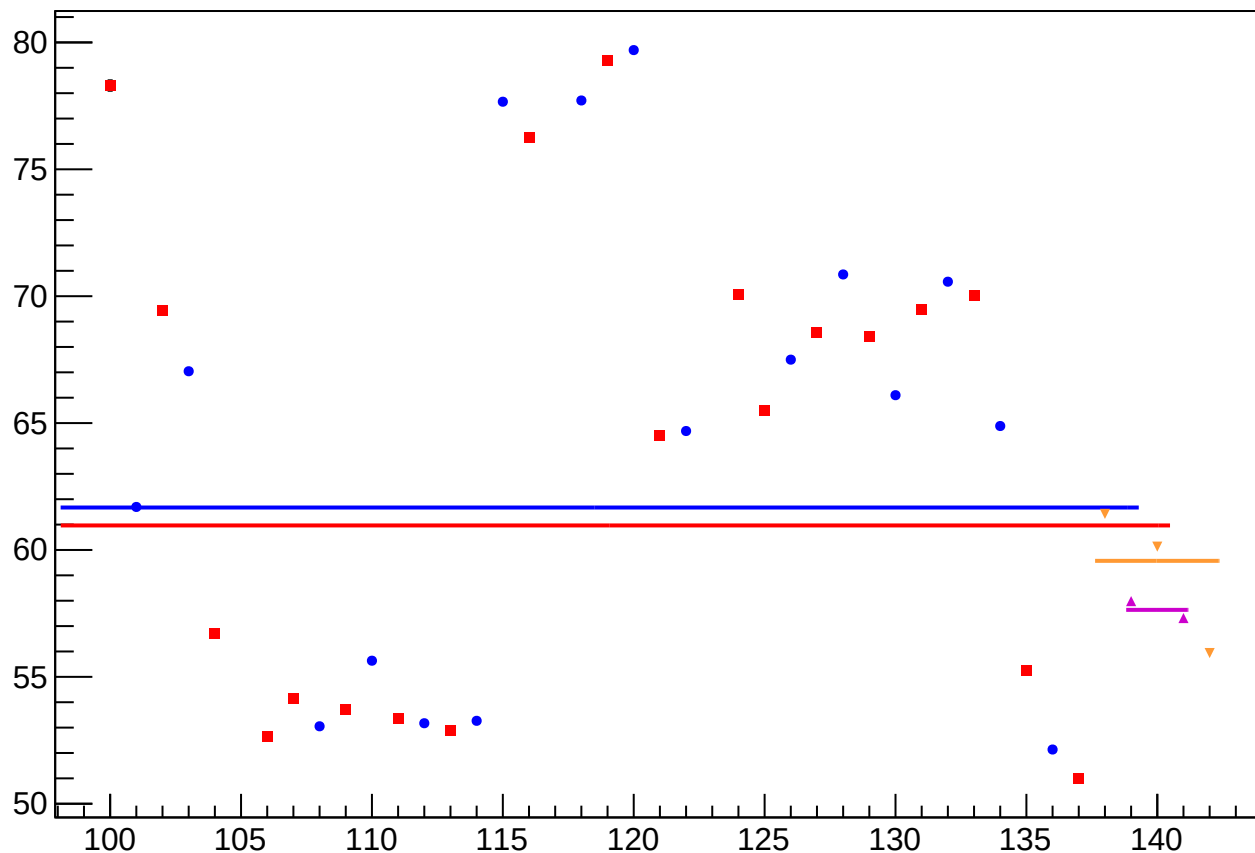
Right: 16.437 $\pm$ 16.171 χ^2 /NDF: 25.6/34

In: 52.585 $\pm$ 20.491 χ^2 /NDF:12.0/17

Out: -22.471 $\pm$ 19.835 χ^2 /NDF:15.7/21

All: 13.836 $\pm$ 14.252 χ^2 /NDF: 34.6/39

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.673 $\pm$ 0.016 χ^2 /NDF: 267108.1/15

Left Out: 59.572 $\pm$ 0.029 χ^2 /NDF: 5274.8/2

Right Out: 60.967 $\pm$ 0.016 χ^2 /NDF: 284183.4/18

Left In: 57.640 $\pm$ 0.031 χ^2 /NDF: 115.7/1

Left: 58.657 $\pm$ 0.021 χ^2 /NDF: 7435.9/4

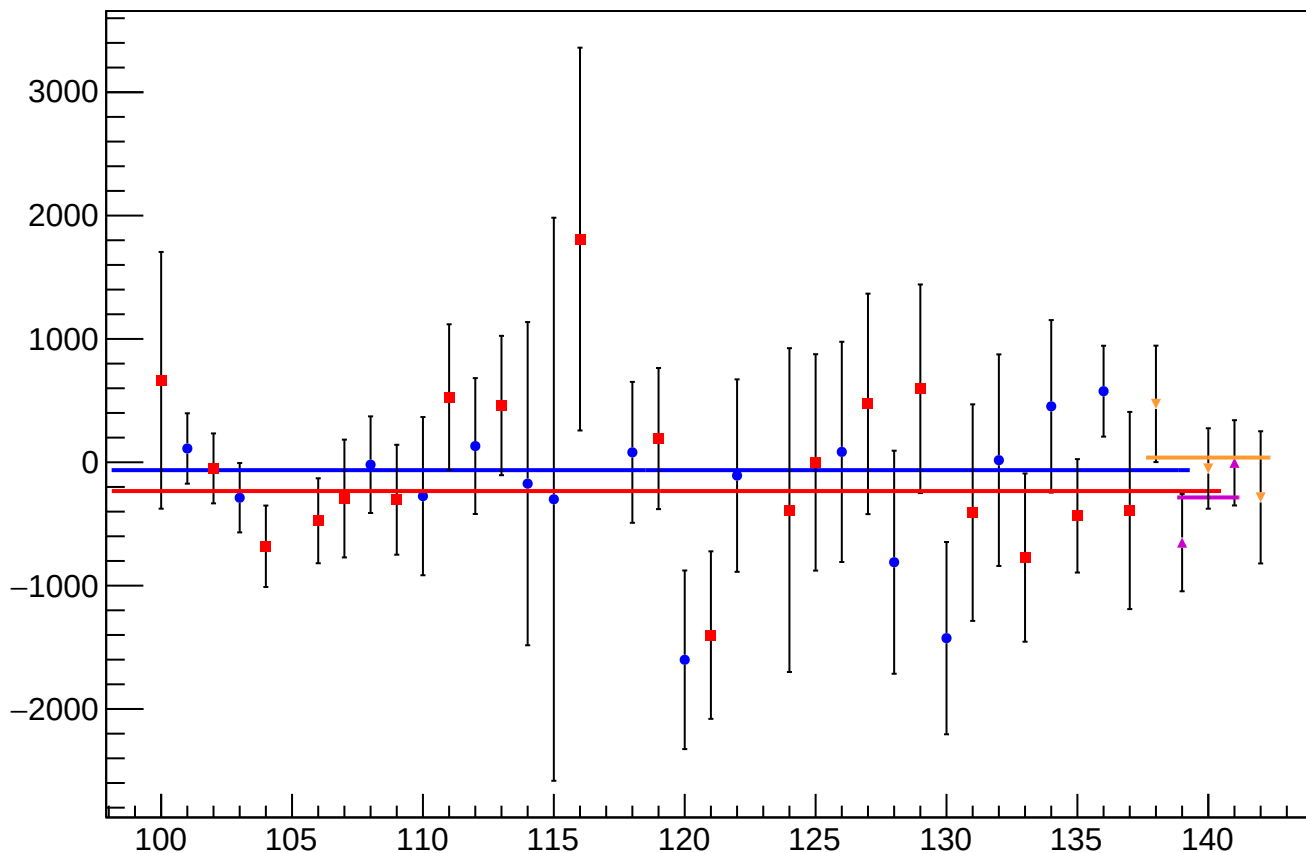
Right: 61.310 $\pm$ 0.011 χ^2 /NDF: 552244.9/34

In: 60.792 $\pm$ 0.014 χ^2 /NDF: 280453.1/17

Out: 60.649 $\pm$ 0.014 χ^2 /NDF: 291198.1/21

All: 60.718 $\pm$ 0.010 χ^2 /NDF: 571701.5/39

asym_sam_37_48_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -63.834 ± 129.674 χ^2/NDF : 13.2/15

Left Out: 38.197 ± 239.917 χ^2/NDF : 1.3/2

Right Out: -233.206 ± 122.791 χ^2/NDF : 14.5/18

Left In: -285.061 ± 260.051 χ^2/NDF : 1.5/1

Left: -110.436 ± 176.336 χ^2/NDF : 3.6/4

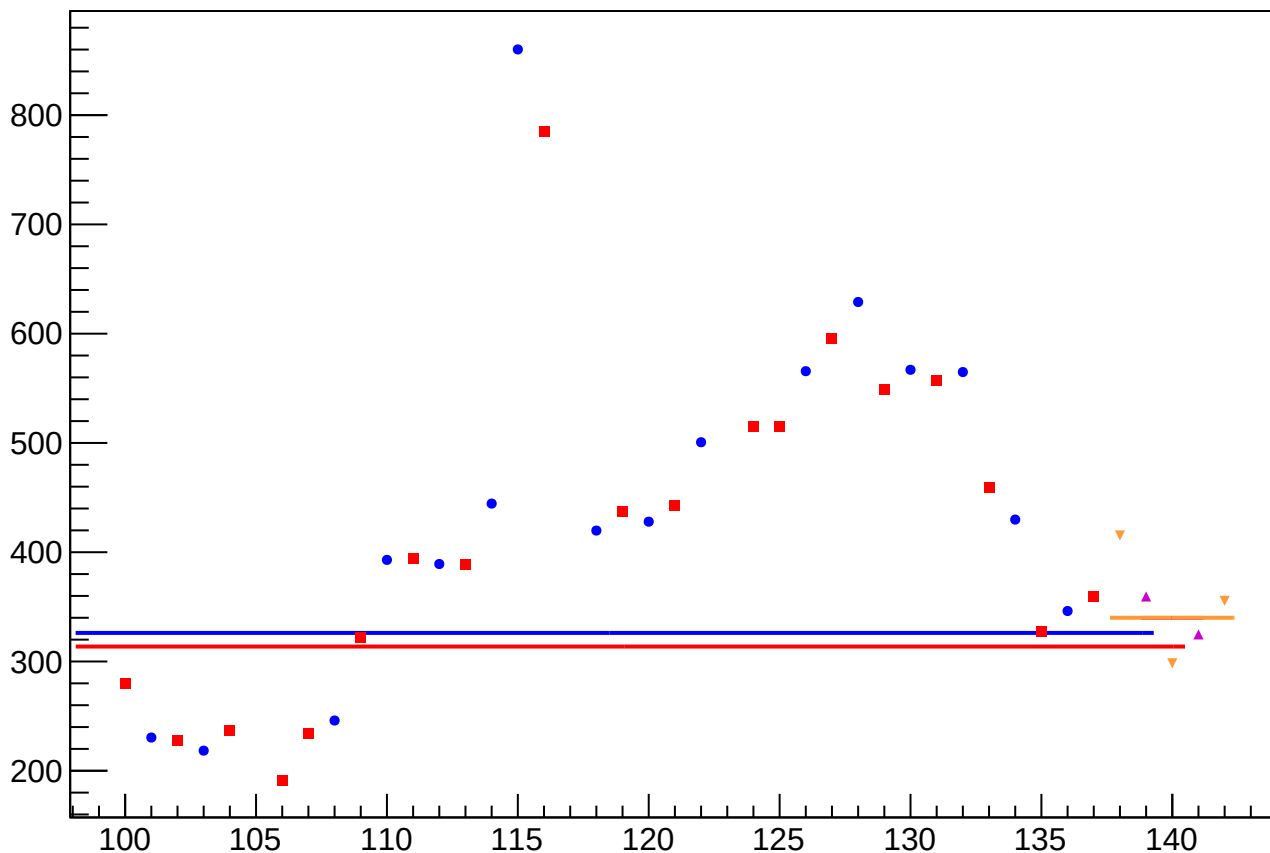
Right: -153.135 ± 89.161 χ^2/NDF : 28.6/34

In: -107.889 ± 116.047 χ^2/NDF : 15.3/17

Out: -176.870 ± 109.307 χ^2/NDF : 16.8/21

All: -144.441 ± 79.568 χ^2/NDF : 32.3/39

asym_sam_37_48_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 326.147+/-0.092 χ^2/NDF : 1733995.5/15

Left Out: 340.018+/-0.170 χ^2/NDF :85285.2/2

Right Out: 313.672+/-0.087 χ^2/NDF : 1787347.3/18

Left In: 339.855+/-0.184 χ^2/NDF :8752.9/1

Left: 339.943+/-0.125 χ^2/NDF : 94038.6/4

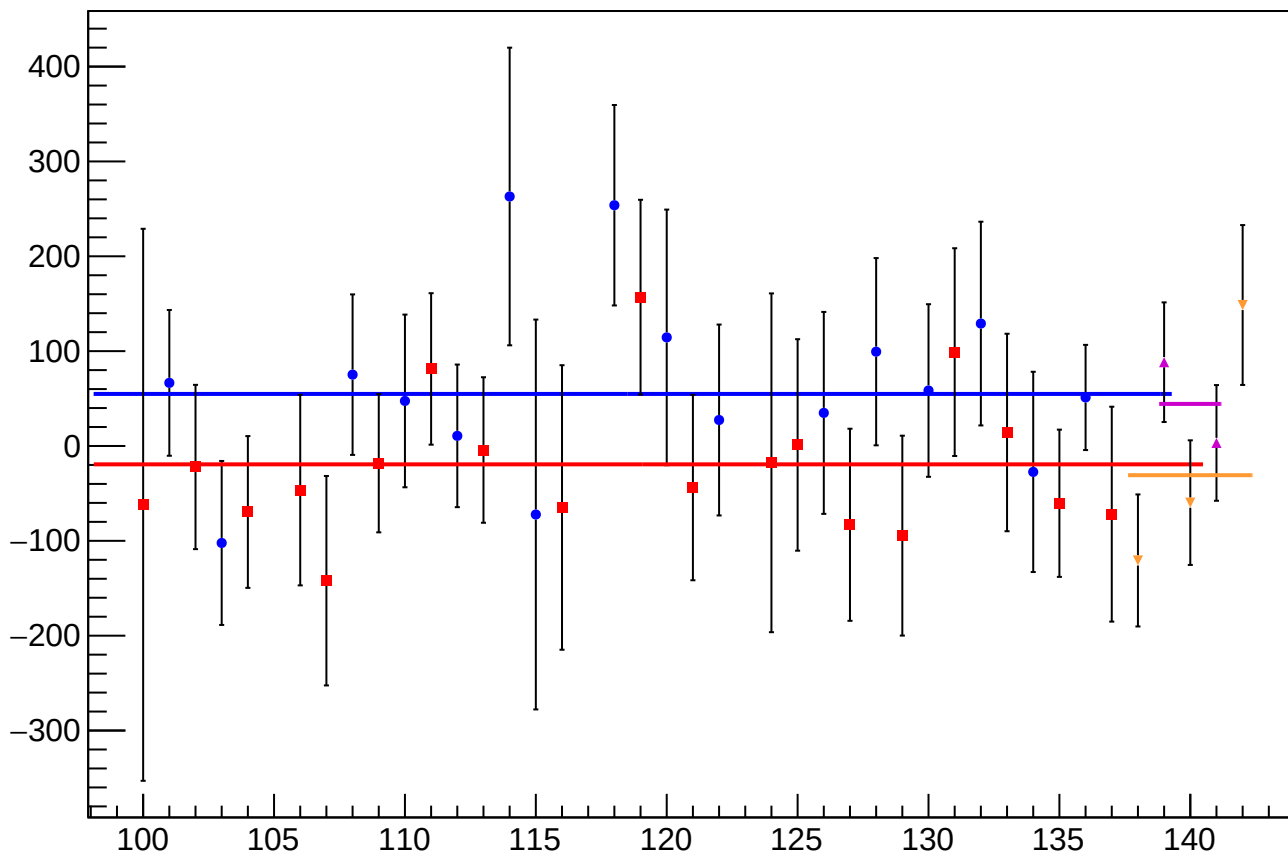
Right: 319.570+/-0.063 χ^2/NDF : 3531102.5/34

In: 328.877+/-0.082 χ^2/NDF :1747198.7/17

Out: 319.141+/-0.077 χ^2/NDF :1891744.5/21

All: 323.718+/-0.056 χ^2/NDF : 3646403.0/39

cor_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 54.877+/-23.179 χ^2/NDF : 11.0/15

Left Out: -30.784+/-41.560 χ^2/NDF : 6.4/2

Right Out: -19.352+/-22.588 χ^2/NDF : 9.2/18

Left In: 44.360+/-43.841 χ^2/NDF : 0.9/1

Left: 4.783+/-30.162 χ^2/NDF : 8.9/4

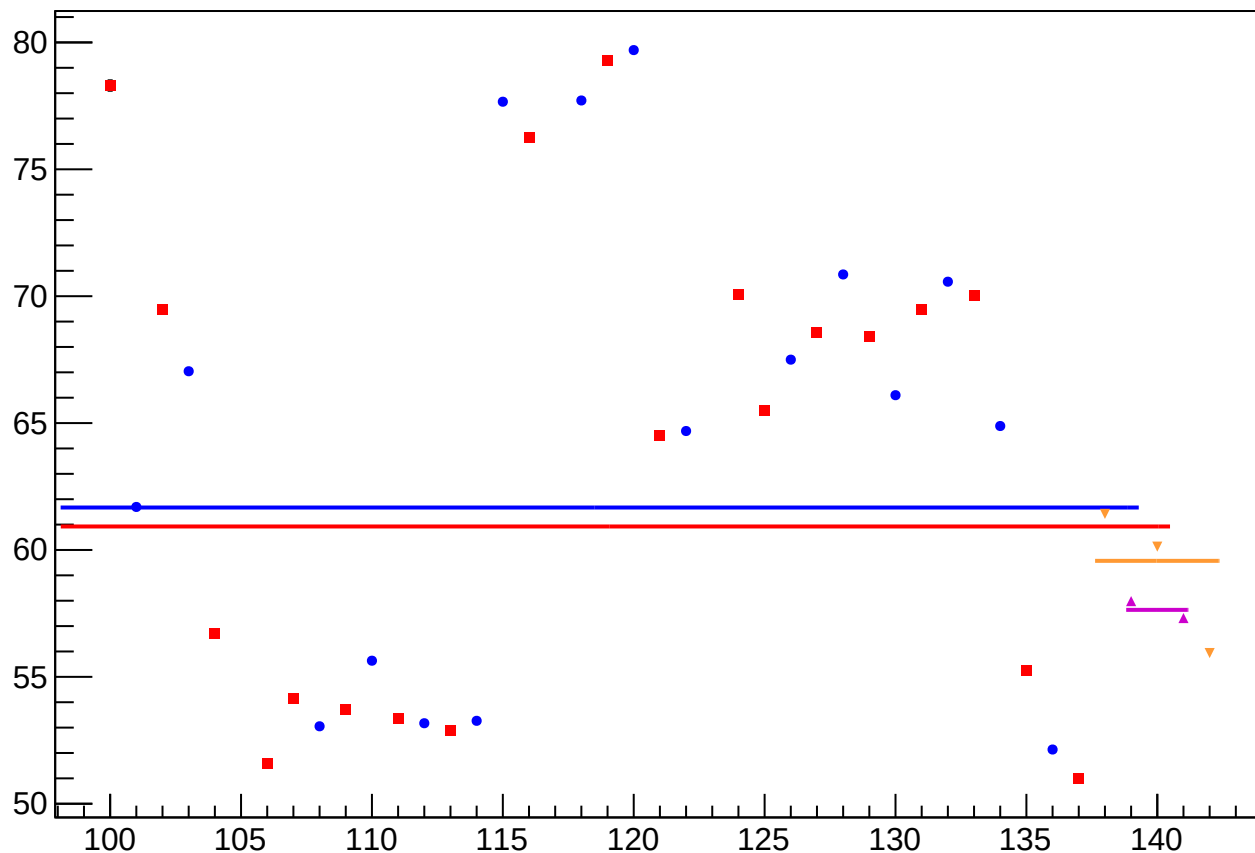
Right: 16.804+/-16.177 χ^2/NDF : 25.4/34

In: 52.579+/-20.491 χ^2/NDF : 12.0/17

Out: -21.959+/-19.846 χ^2/NDF : 15.6/21

All: 14.118+/-14.256 χ^2/NDF : 34.4/39

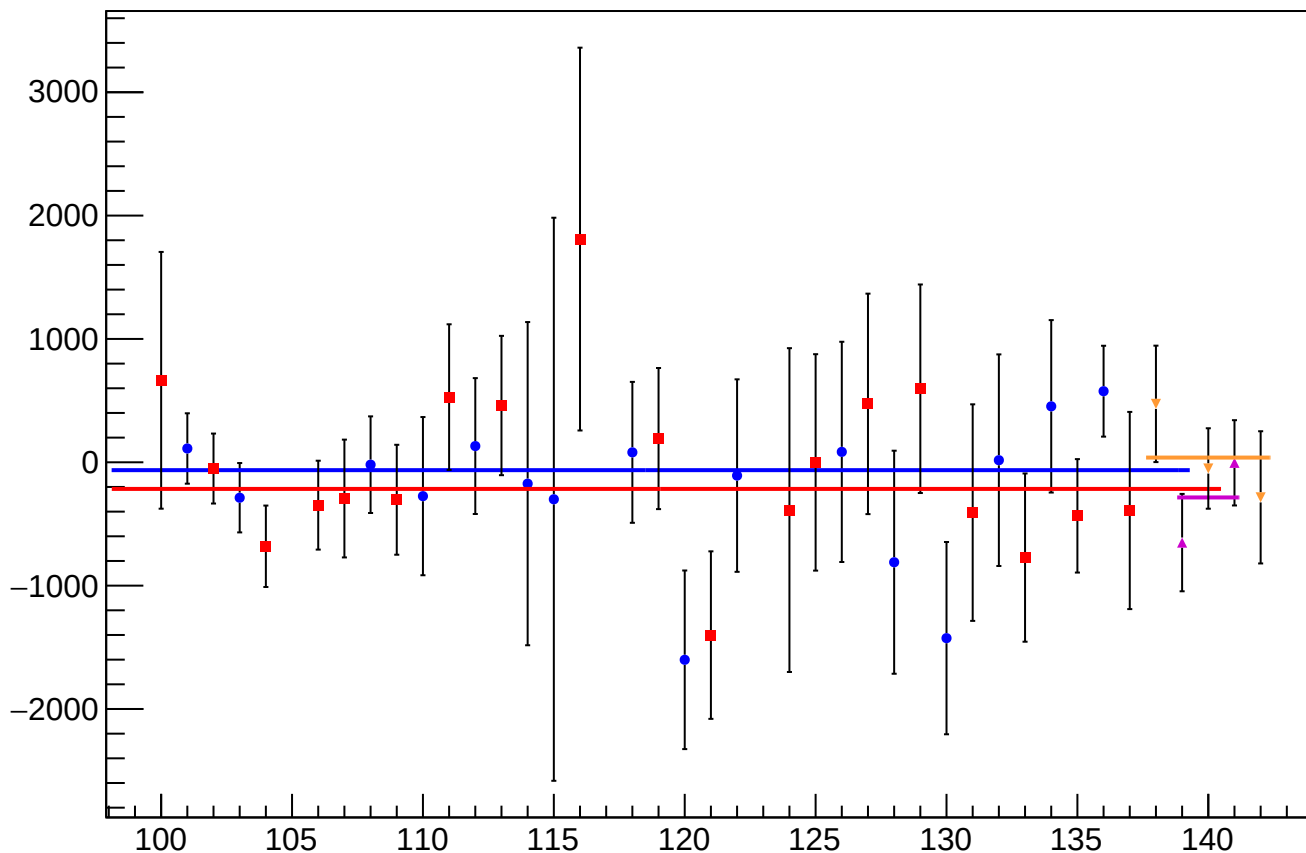
cor_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.673 $\pm$ 0.016 χ^2/NDF : 267108.3/15
 Left Out: 59.572 $\pm$ 0.029 χ^2/NDF : 5274.8/2
 Right Out: 60.926 $\pm$ 0.016 χ^2/NDF : 287579.6/18
 Left In: 57.640 $\pm$ 0.031 χ^2/NDF : 115.7/1

Left: 58.657 $\pm$ 0.021 χ^2/NDF : 7435.9/4
 Right: 61.290 $\pm$ 0.011 χ^2/NDF : 555754.0/34
 In: 60.792 $\pm$ 0.014 χ^2/NDF : 280453.3/17
 Out: 60.617 $\pm$ 0.014 χ^2/NDF : 294493.5/21
 All: 60.702 $\pm$ 0.010 χ^2/NDF : 575022.0/39

asym_sam_37_48_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -63.820 ± 129.675 χ^2/NDF : 13.2/15

Left Out: 38.192 ± 239.917 χ^2/NDF : 1.3/2

Right Out: -215.911 ± 123.491 χ^2/NDF : 14.1/18

Left In: -285.063 ± 260.051 χ^2/NDF : 1.5/1

Left: -110.439 ± 176.336 χ^2/NDF : 3.6/4

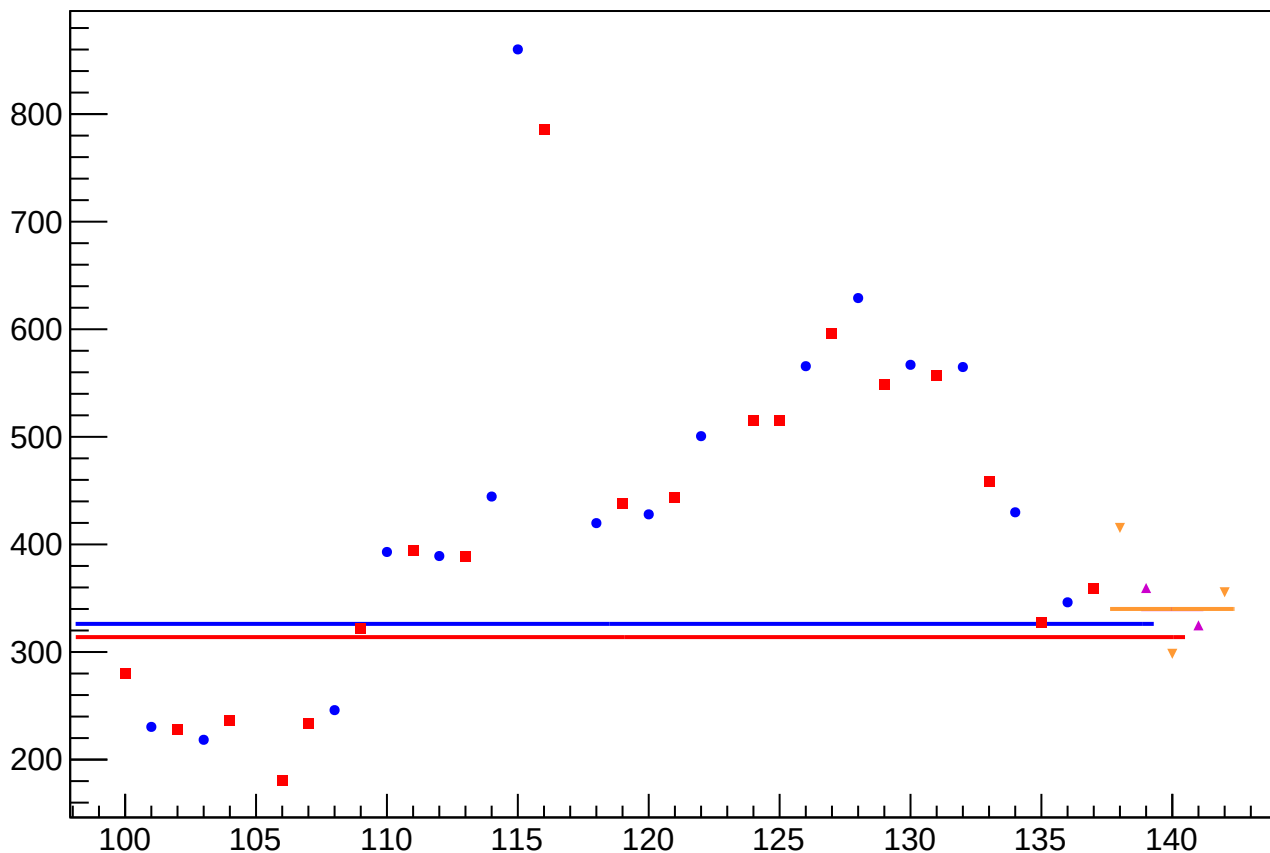
Right: -143.578 ± 89.428 χ^2/NDF : 28.0/34

In: -107.878 ± 116.047 χ^2/NDF : 15.3/17

Out: -162.689 ± 109.800 χ^2/NDF : 16.3/21

All: -136.799 ± 79.757 χ^2/NDF : 31.7/39

asym_sam_37_48_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 326.150+/-0.092 χ^2/NDF : 1733934.7/15

Left Out: 340.018+/-0.170 χ^2/NDF : 85285.4/2

Right Out: 313.861+/-0.087 χ^2/NDF : 1805779.4/18

Left In: 339.855+/-0.184 χ^2/NDF : 8752.5/1

Left: 339.943+/-0.125 χ^2/NDF : 94038.3/4

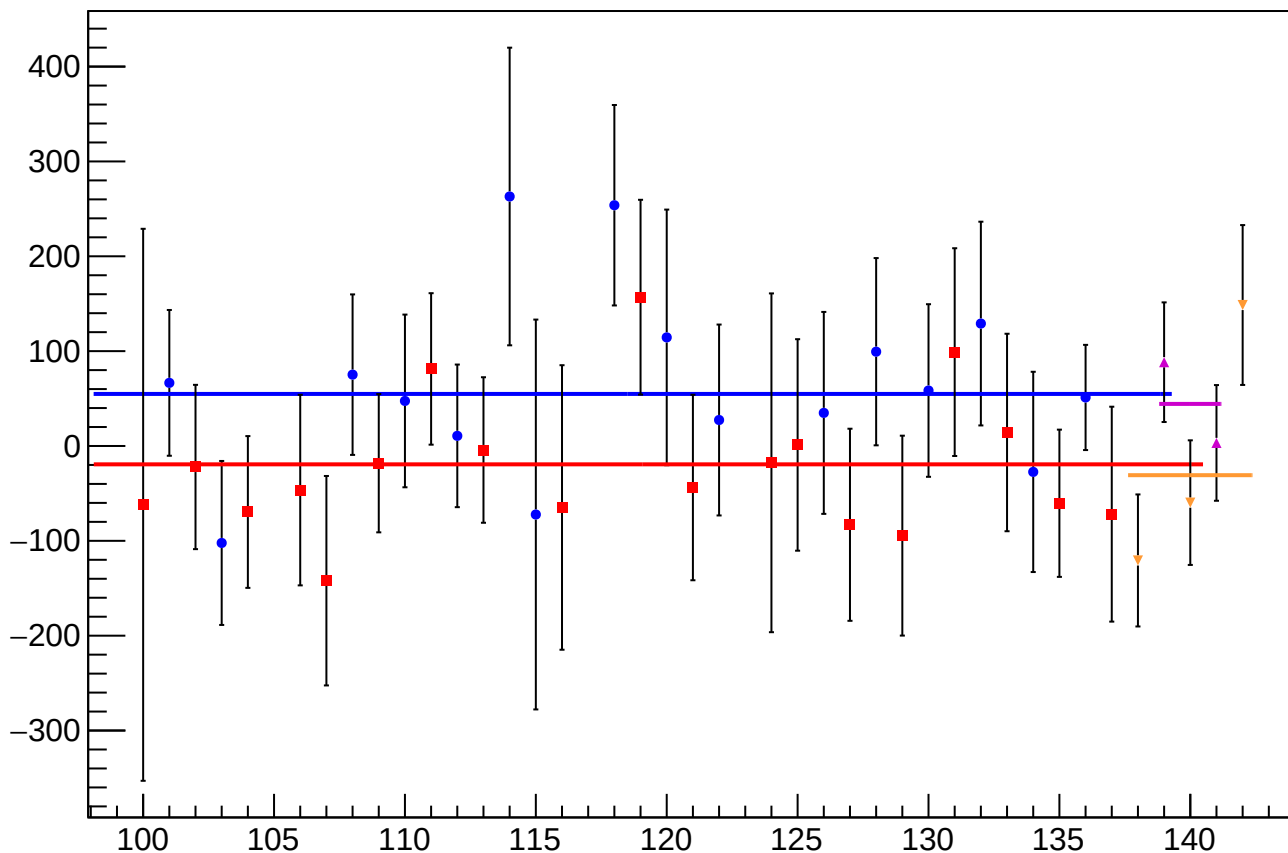
Right: 319.706+/-0.063 χ^2/NDF : 3549134.1/34

In: 328.879+/-0.082 χ^2/NDF : 1747135.6/17

Out: 319.339+/-0.078 χ^2/NDF : 1909858.9/21

All: 323.846+/-0.056 χ^2/NDF : 3664126.2/39

eigen_cor_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 54.877 $\pm$ 23.179 χ^2 /NDF: 11.0/15

Left Out: -30.784 $\pm$ 41.560 χ^2 /NDF:6.4/2

Right Out: -19.352 $\pm$ 22.588 χ^2 /NDF: 9.2/18

Left In: 44.360 $\pm$ 43.841 χ^2 /NDF:0.9/1

Left: 4.783 $\pm$ 30.162 χ^2 /NDF: 8.9/4

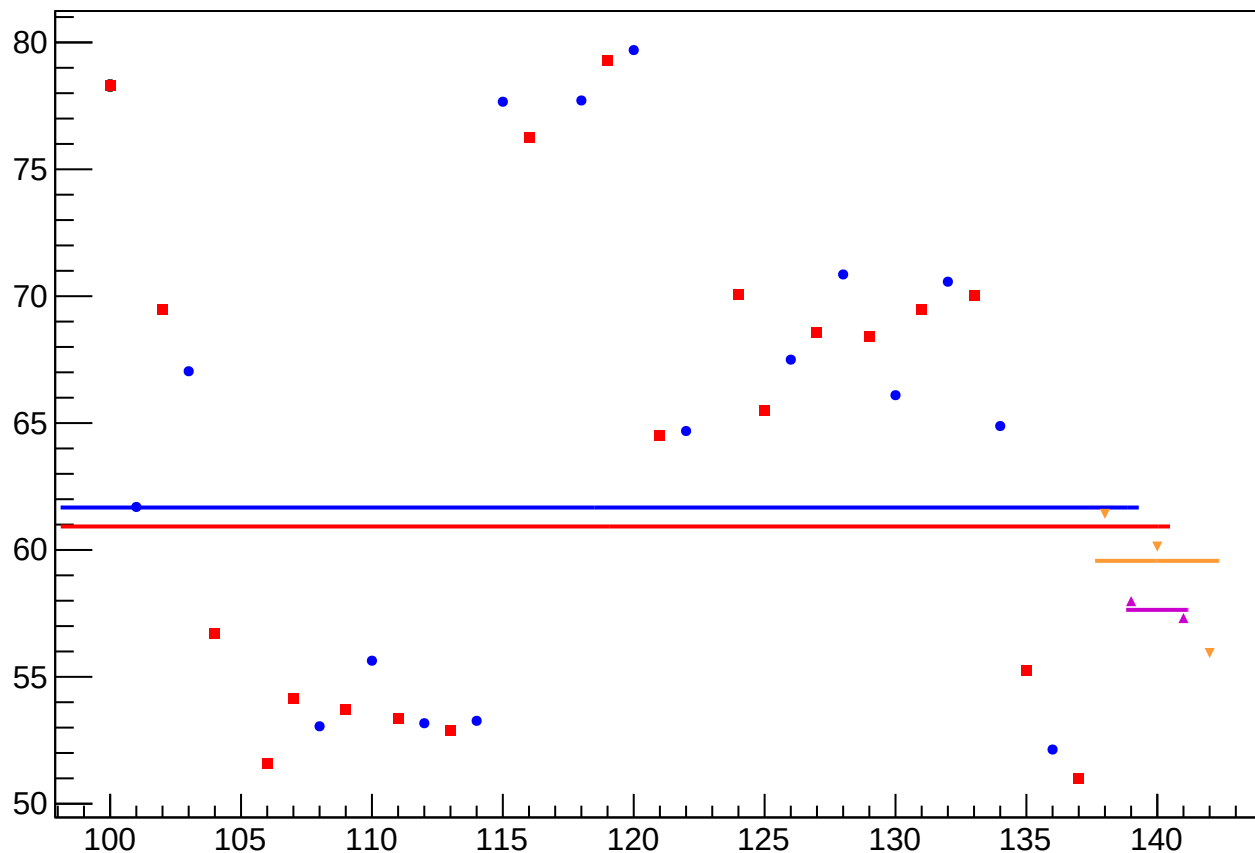
Right: 16.804 $\pm$ 16.177 χ^2 /NDF: 25.4/34

In: 52.579 $\pm$ 20.491 χ^2 /NDF:12.0/17

Out: -21.959 $\pm$ 19.846 χ^2 /NDF:15.6/21

All: 14.118 $\pm$ 14.256 χ^2 /NDF: 34.4/39

eigen_cor_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.673+/-0.016 χ^2/NDF : 267108.3/15

Left Out: 59.572+/-0.029 χ^2/NDF : 5274.8/2

Right Out: 60.926+/-0.016 χ^2/NDF : 287579.6/18

Left In: 57.640+/-0.031 χ^2/NDF : 115.7/1

Left: 58.657+/-0.021 χ^2/NDF : 7435.9/4

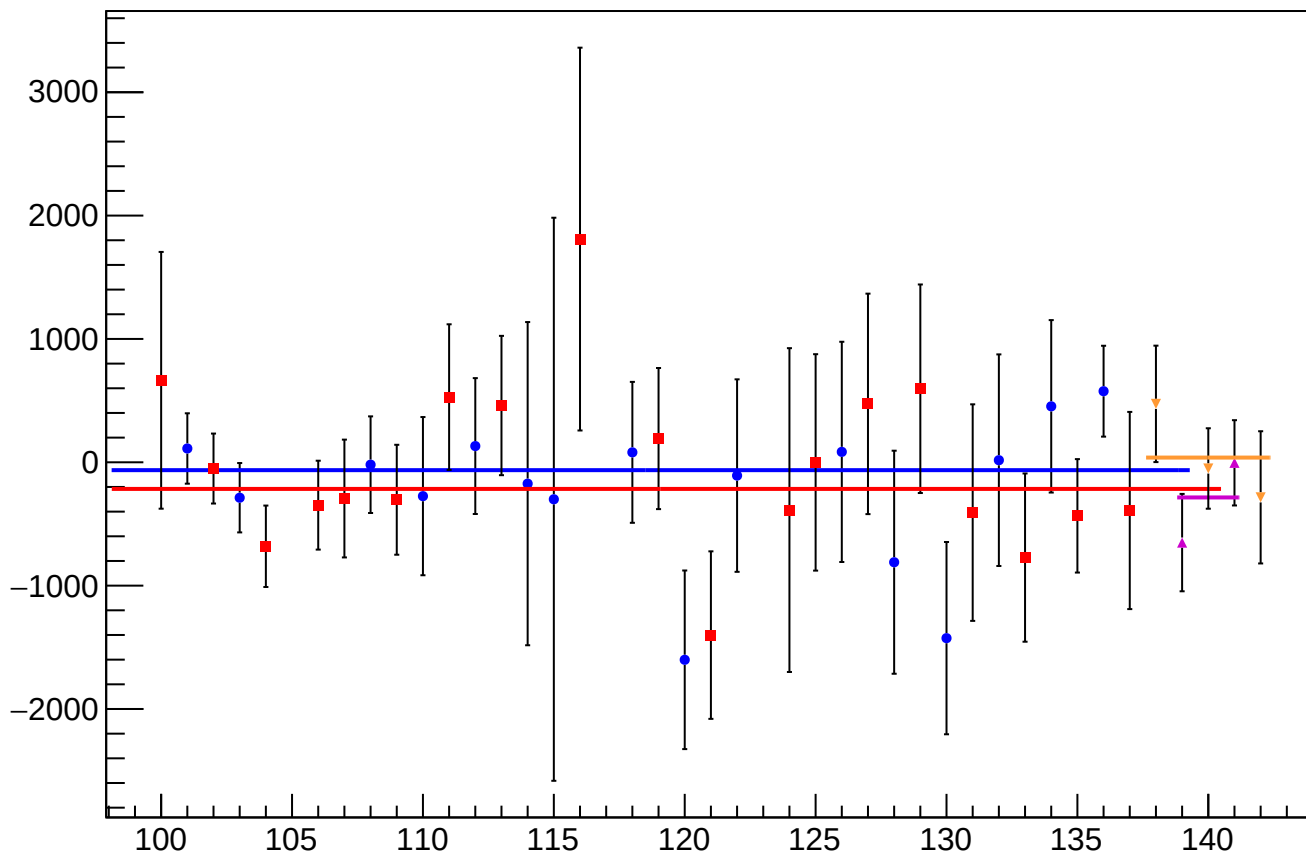
Right: 61.290+/-0.011 χ^2/NDF : 555754.0/34

In: 60.792+/-0.014 χ^2/NDF : 280453.3/17

Out: 60.617+/-0.014 χ^2/NDF : 294493.5/21

All: 60.702+/-0.010 χ^2/NDF : 575022.0/39

asym_sam_37_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -63.820 ± 129.675 χ^2/NDF : 13.2/15

Left Out: 38.192 ± 239.917 χ^2/NDF : 1.3/2

Right Out: -215.911 ± 123.491 χ^2/NDF : 14.1/18

Left In: -285.063 ± 260.051 χ^2/NDF : 1.5/1

Left: -110.439 ± 176.336 χ^2/NDF : 3.6/4

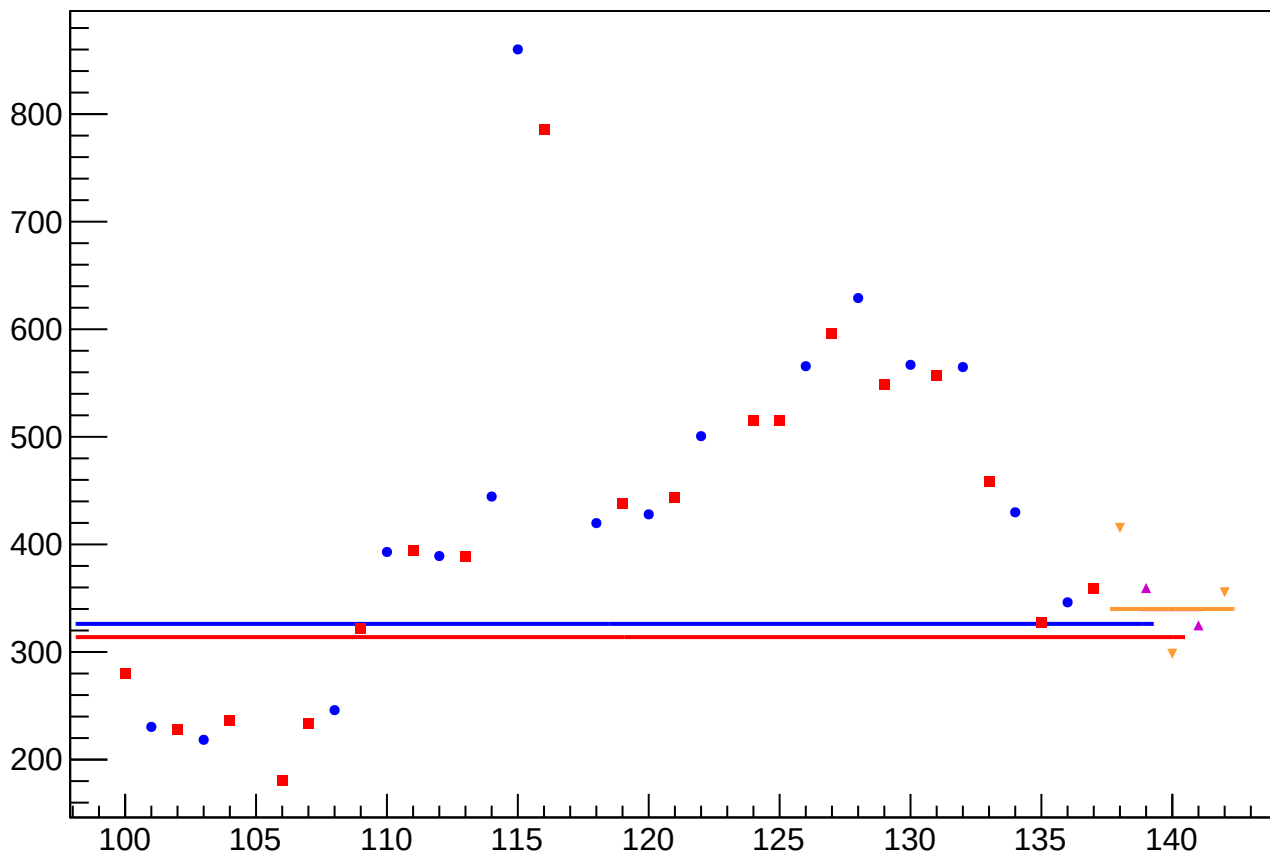
Right: -143.578 ± 89.428 χ^2/NDF : 28.0/34

In: -107.878 ± 116.047 χ^2/NDF : 15.3/17

Out: -162.689 ± 109.800 χ^2/NDF : 16.3/21

All: -136.799 ± 79.757 χ^2/NDF : 31.7/39

asym_sam_37_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 326.150+/-0.092 χ^2/NDF : 1733934.7/15

Left Out: 340.018+/-0.170 χ^2/NDF : 85285.4/2

Right Out: 313.861+/-0.087 χ^2/NDF : 1805779.4/18

Left In: 339.855+/-0.184 χ^2/NDF : 8752.5/1

Left: 339.943+/-0.125 χ^2/NDF : 94038.3/4

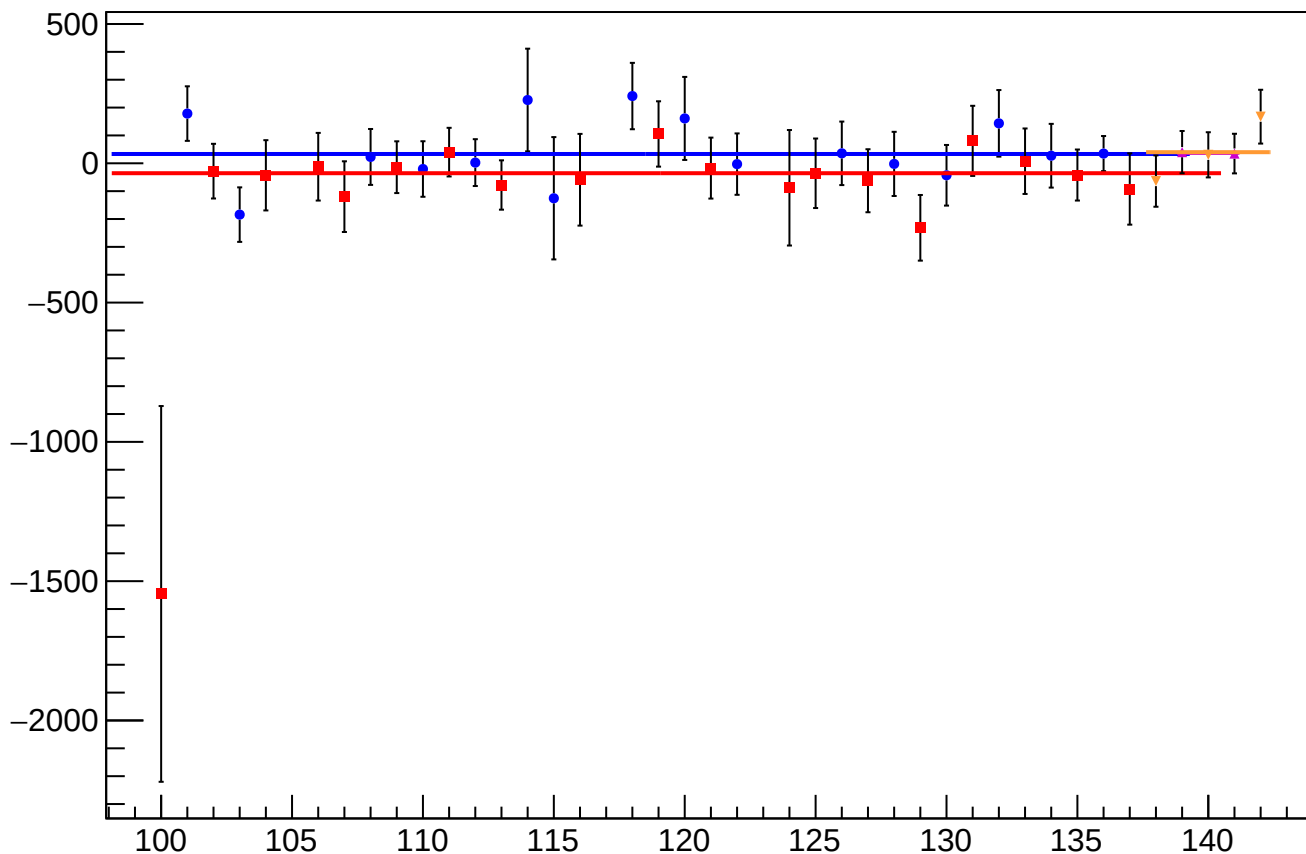
Right: 319.706+/-0.063 χ^2/NDF : 3549134.1/34

In: 328.879+/-0.082 χ^2/NDF : 1747135.6/17

Out: 319.339+/-0.078 χ^2/NDF : 1909858.9/21

All: 323.846+/-0.056 χ^2/NDF : 3664126.2/39

dit_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 33.399 $\pm$ 26.415 χ^2 /NDF: 14.5/15

Left Out: 39.901 $\pm$ 51.492 χ^2 /NDF:3.0/2

Right Out: -35.576 $\pm$ 26.536 χ^2 /NDF: 12.1/18

Left In: 37.332 $\pm$ 51.869 χ^2 /NDF:0.0/1

Left: 38.626 $\pm$ 36.543 χ^2 /NDF: 3.0/4

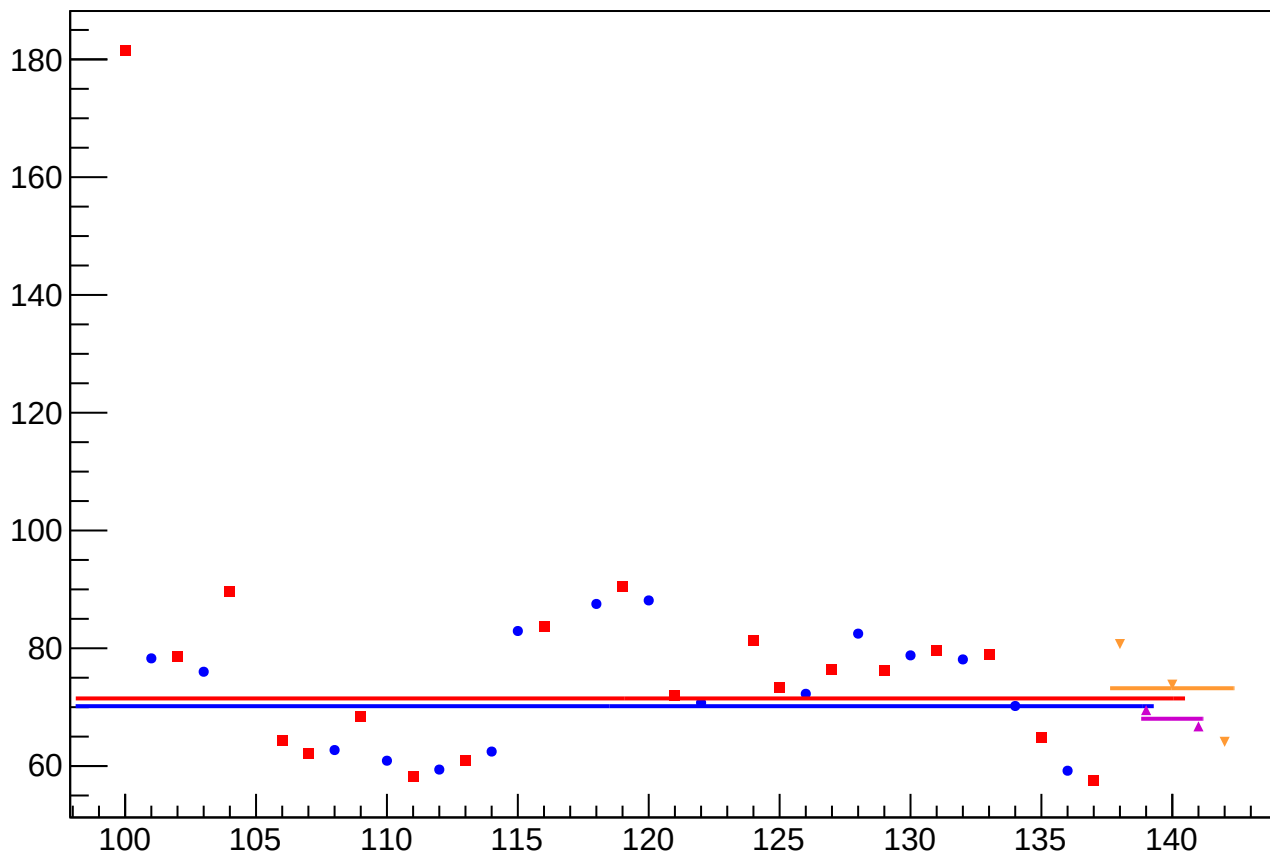
Right: -0.931 $\pm$ 18.721 χ^2 /NDF: 30.0/34

In: 34.208 $\pm$ 23.538 χ^2 /NDF:14.5/17

Out: -19.737 $\pm$ 23.588 χ^2 /NDF:16.8/21

All: 7.293 $\pm$ 16.662 χ^2 /NDF: 34.0/39

dit_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 70.167 $\pm$ 0.019 χ^2 /NDF: 269249.9/15

Left Out: 73.214 $\pm$ 0.036 χ^2 /NDF: 31126.5/2

Right Out: 71.483 $\pm$ 0.019 χ^2 /NDF: 325715.0/18

Left In: 68.034 $\pm$ 0.037 χ^2 /NDF: 1412.5/1

Left: 70.643 $\pm$ 0.026 χ^2 /NDF: 42586.4/4

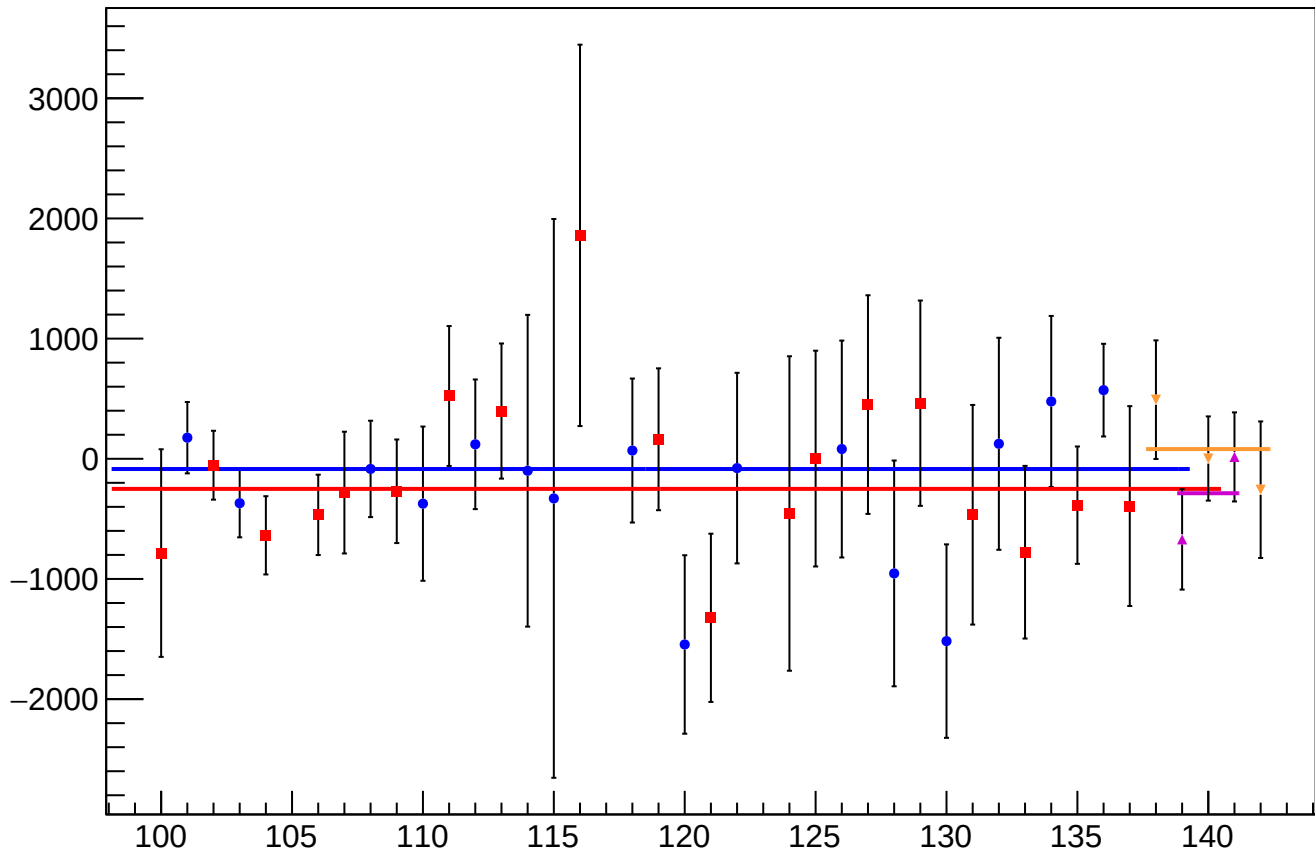
Right: 70.822 $\pm$ 0.013 χ^2 /NDF: 597434.8/34

In: 69.728 $\pm$ 0.017 χ^2 /NDF: 273349.1/17

Out: 71.846 $\pm$ 0.017 χ^2 /NDF: 358627.7/21

All: 70.785 $\pm$ 0.012 χ^2 /NDF: 640059.3/39

asym_sam_37_48_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -85.184 ± 132.877 χ^2/NDF : 13.7/15

Left Out: 80.775 ± 255.293 χ^2/NDF : 1.1/2

Right Out: -250.440 ± 123.302 χ^2/NDF : 12.5/18

Left In: -286.666 ± 277.302 χ^2/NDF : 1.5/1

Left: -87.787 ± 187.819 χ^2/NDF : 3.6/4

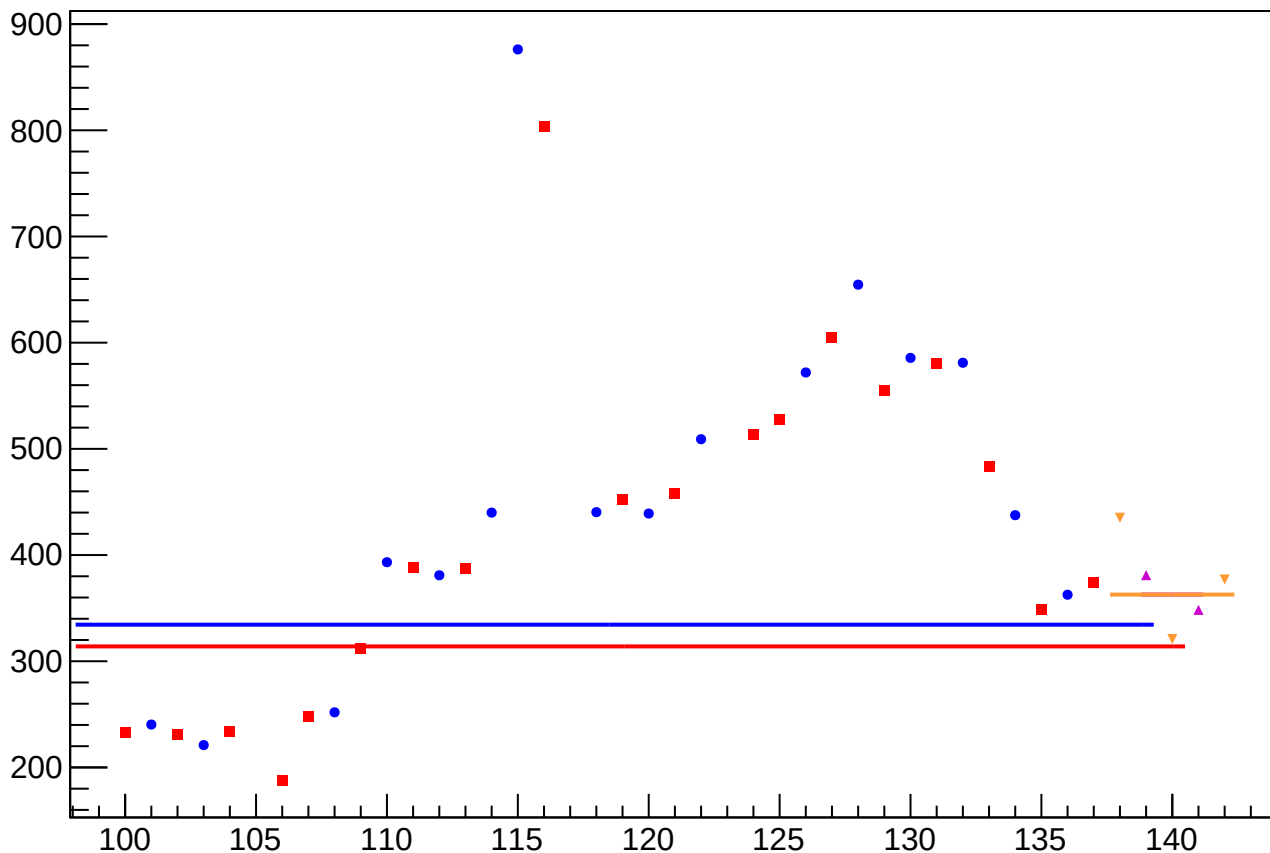
Right: -173.980 ± 90.383 χ^2/NDF : 27.0/34

In: -122.808 ± 119.830 χ^2/NDF : 15.6/17

Out: -187.791 ± 111.030 χ^2/NDF : 14.9/21

All: -157.773 ± 81.444 χ^2/NDF : 30.7/39

asym_sam_37_48_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 334.431+/-0.094 χ^2/NDF : 1730610.2/15

Left Out: 362.752+/-0.181 χ^2/NDF : 72753.6/2

Right Out: 313.971+/-0.087 χ^2/NDF : 1904605.9/18

Left In: 362.796+/-0.196 χ^2/NDF : 6850.0/1

Left: 362.772+/-0.133 χ^2/NDF : 79603.7/4

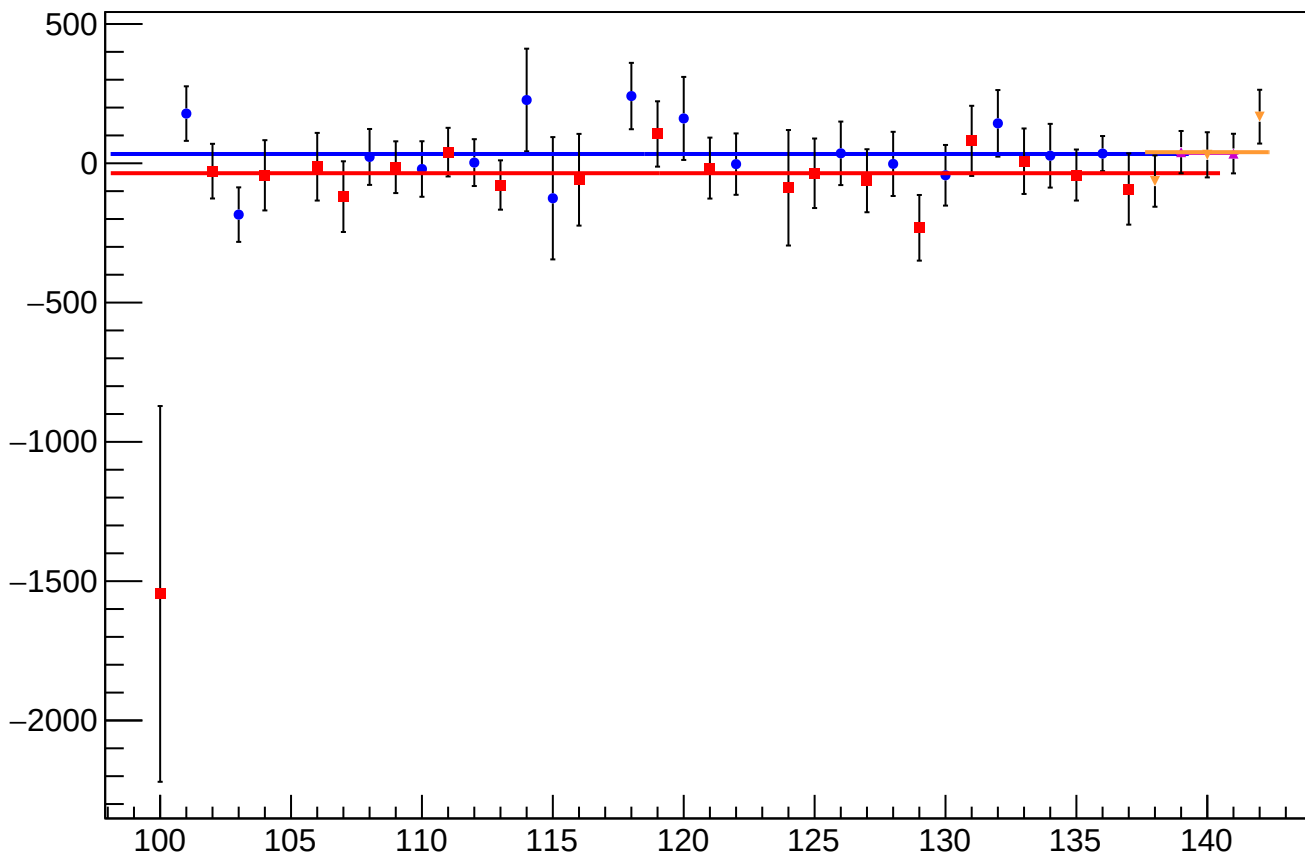
Right: 323.437+/-0.064 χ^2/NDF : 3660694.2/34

In: 339.728+/-0.085 χ^2/NDF : 1754478.9/17

Out: 323.198+/-0.079 χ^2/NDF : 2036570.4/21

All: 330.834+/-0.058 χ^2/NDF : 3811525.9/39

eigen_dit_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 33.397 $\pm$ 26.415 χ^2 /NDF: 14.5/15

Left Out: 39.900 $\pm$ 51.492 χ^2 /NDF:3.0/2

Right Out: -35.577 $\pm$ 26.536 χ^2 /NDF: 12.1/18

Left In: 37.334 $\pm$ 51.869 χ^2 /NDF:0.0/1

Left: 38.626 $\pm$ 36.543 χ^2 /NDF: 3.0/4

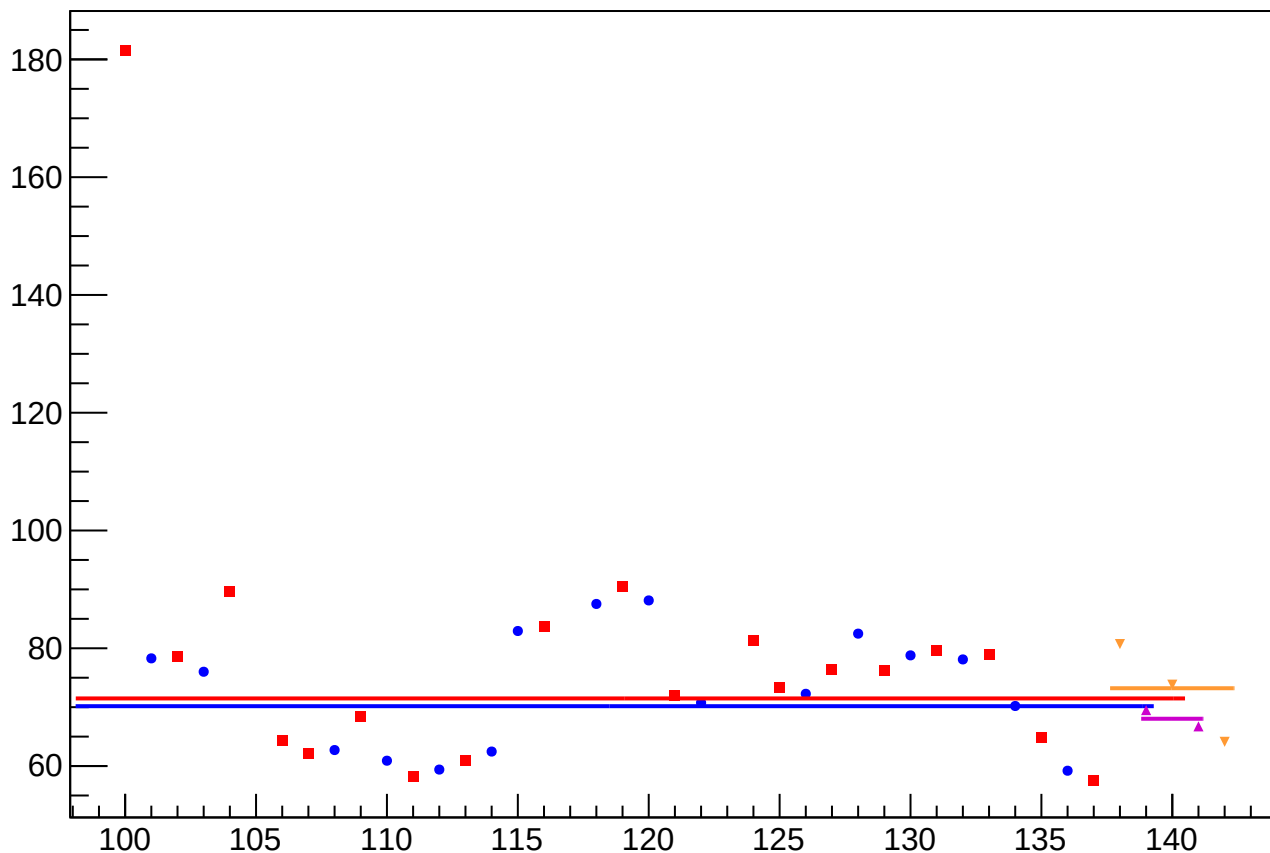
Right: -0.932 $\pm$ 18.721 χ^2 /NDF: 30.0/34

In: 34.208 $\pm$ 23.538 χ^2 /NDF:14.5/17

Out: -19.738 $\pm$ 23.588 χ^2 /NDF:16.8/21

All: 7.292 $\pm$ 16.662 χ^2 /NDF: 34.0/39

eigen_dit_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 70.167 ± 0.019 χ^2/NDF : 269253.0/15

Left Out: 73.214 ± 0.036 χ^2/NDF : 31124.6/2

Right Out: 71.483 ± 0.019 χ^2/NDF : 325721.5/18

Left In: 68.034 ± 0.037 χ^2/NDF : 1412.4/1

Left: 70.643 ± 0.026 χ^2/NDF : 42585.1/4

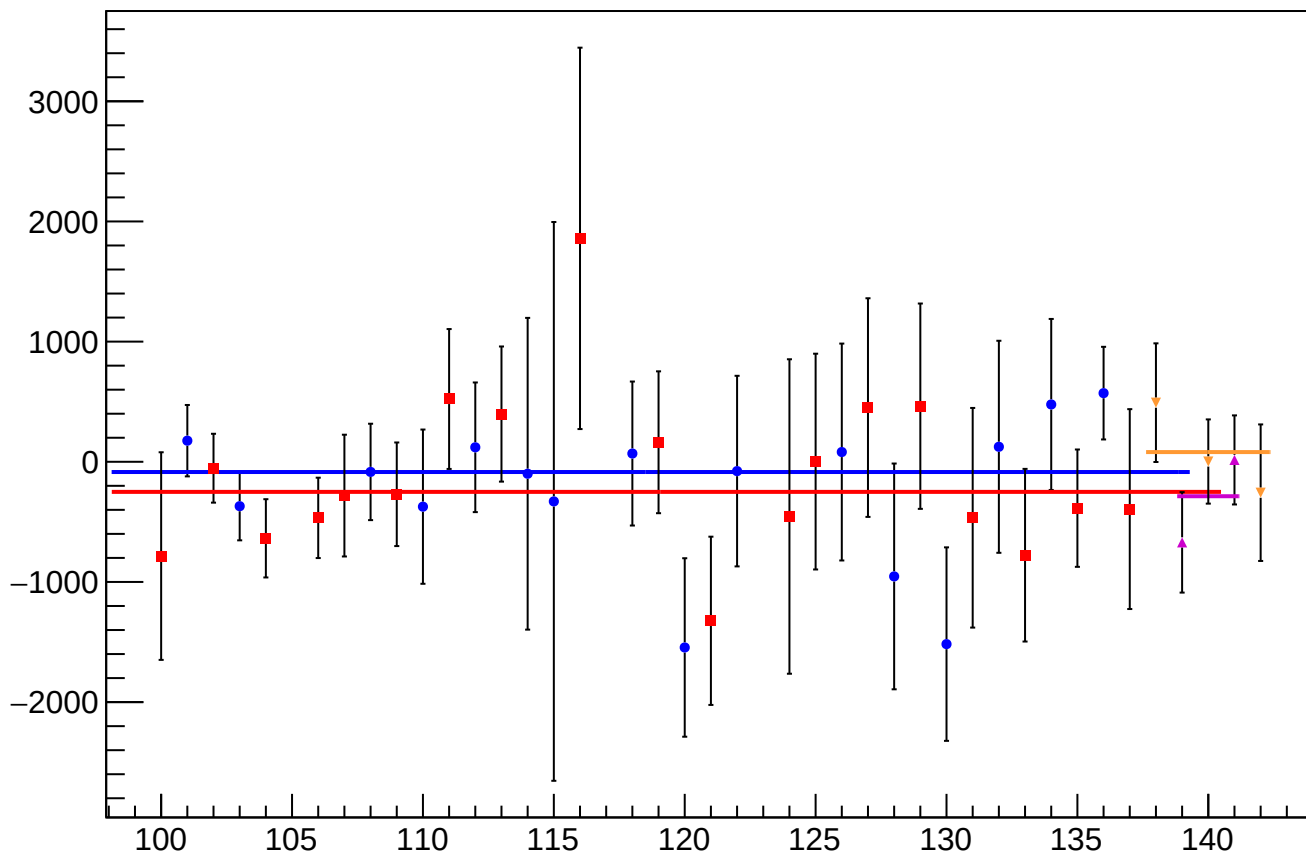
Right: 70.822 ± 0.013 χ^2/NDF : 597444.3/34

In: 69.728 ± 0.017 χ^2/NDF : 273353.2/17

Out: 71.846 ± 0.017 χ^2/NDF : 358631.8/21

All: 70.785 ± 0.012 χ^2/NDF : 640067.6/39

asym_sam_37_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -85.185 ± 132.877 χ^2/NDF : 13.7/15

Left Out: 80.776 ± 255.292 χ^2/NDF : 1.1/2

Right Out: -250.440 ± 123.302 χ^2/NDF : 12.5/18

Left In: -286.665 ± 277.302 χ^2/NDF : 1.5/1

Left: -87.786 ± 187.819 χ^2/NDF : 3.6/4

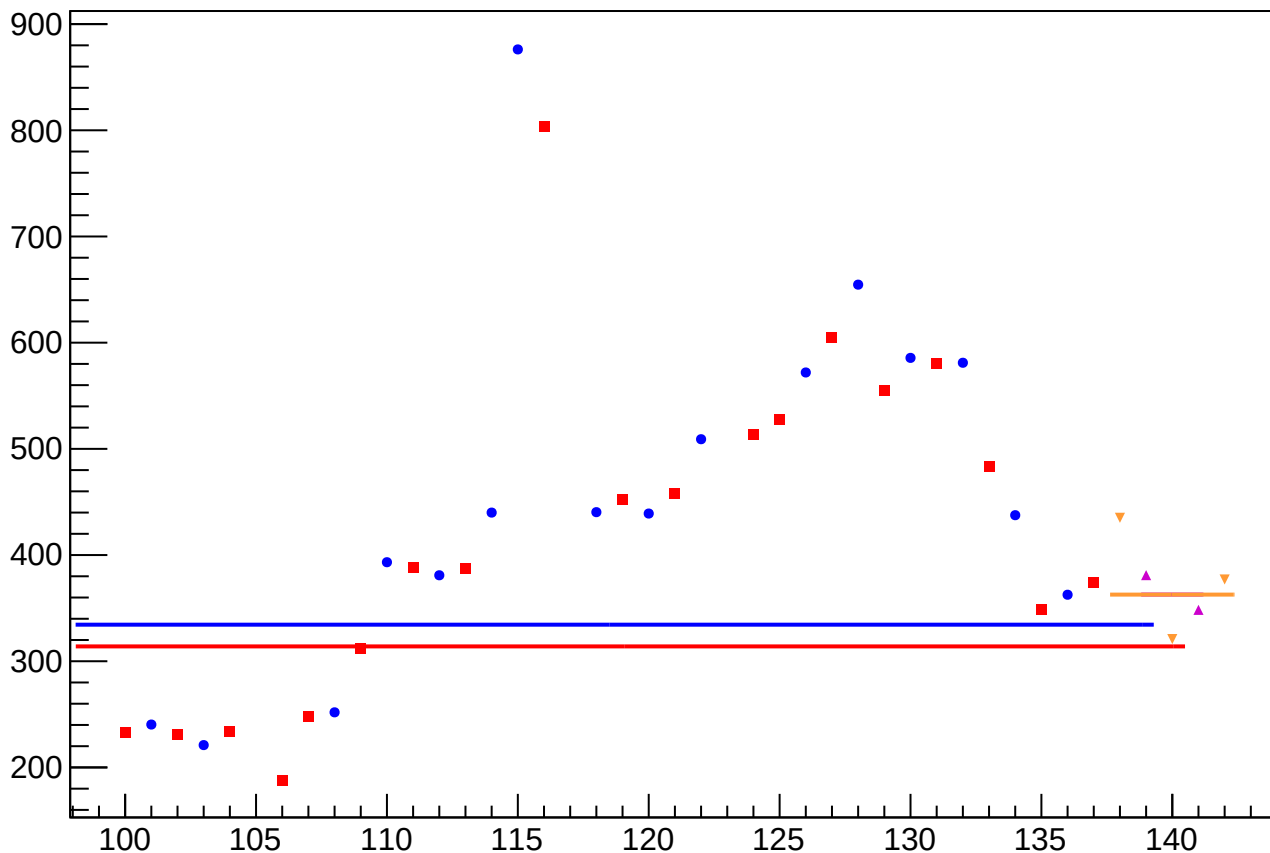
Right: -173.981 ± 90.383 χ^2/NDF : 27.0/34

In: -122.809 ± 119.830 χ^2/NDF : 15.6/17

Out: -187.791 ± 111.030 χ^2/NDF : 14.9/21

All: -157.773 ± 81.443 χ^2/NDF : 30.7/39

asym_sam_37_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 334.431+/-0.094 χ^2/NDF : 1730609.3/15

Left Out: 362.752+/-0.181 χ^2/NDF : 72753.5/2

Right Out: 313.971+/-0.087 χ^2/NDF : 1904604.3/18

Left In: 362.796+/-0.196 χ^2/NDF : 6850.2/1

Left: 362.772+/-0.133 χ^2/NDF : 79603.7/4

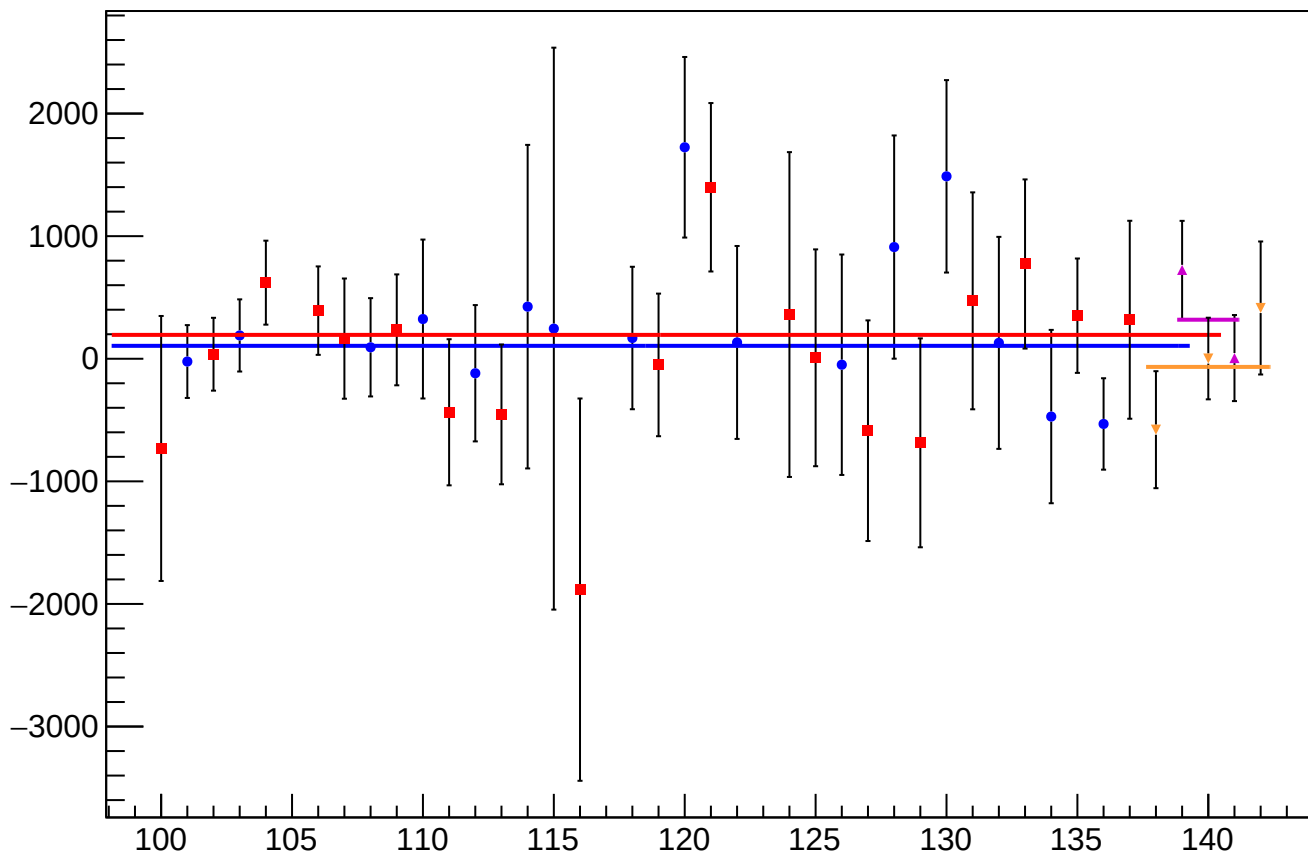
Right: 323.437+/-0.064 χ^2/NDF : 3660692.3/34

In: 339.728+/-0.085 χ^2/NDF : 1754477.4/17

Out: 323.198+/-0.079 χ^2/NDF : 2036567.6/21

All: 330.834+/-0.058 χ^2/NDF : 3811522.0/39

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 105.390 $\pm$ 133.046 χ^2 /NDF: 13.0/15

Left Out: -66.475 $\pm$ 243.900 χ^2 /NDF:2.0/2

Right Out: 194.712 $\pm$ 126.198 χ^2 /NDF: 13.1/18

Left In: 318.440 $\pm$ 263.879 χ^2 /NDF:1.8/1

Left: 110.861 $\pm$ 179.111 χ^2 /NDF: 5.0/4

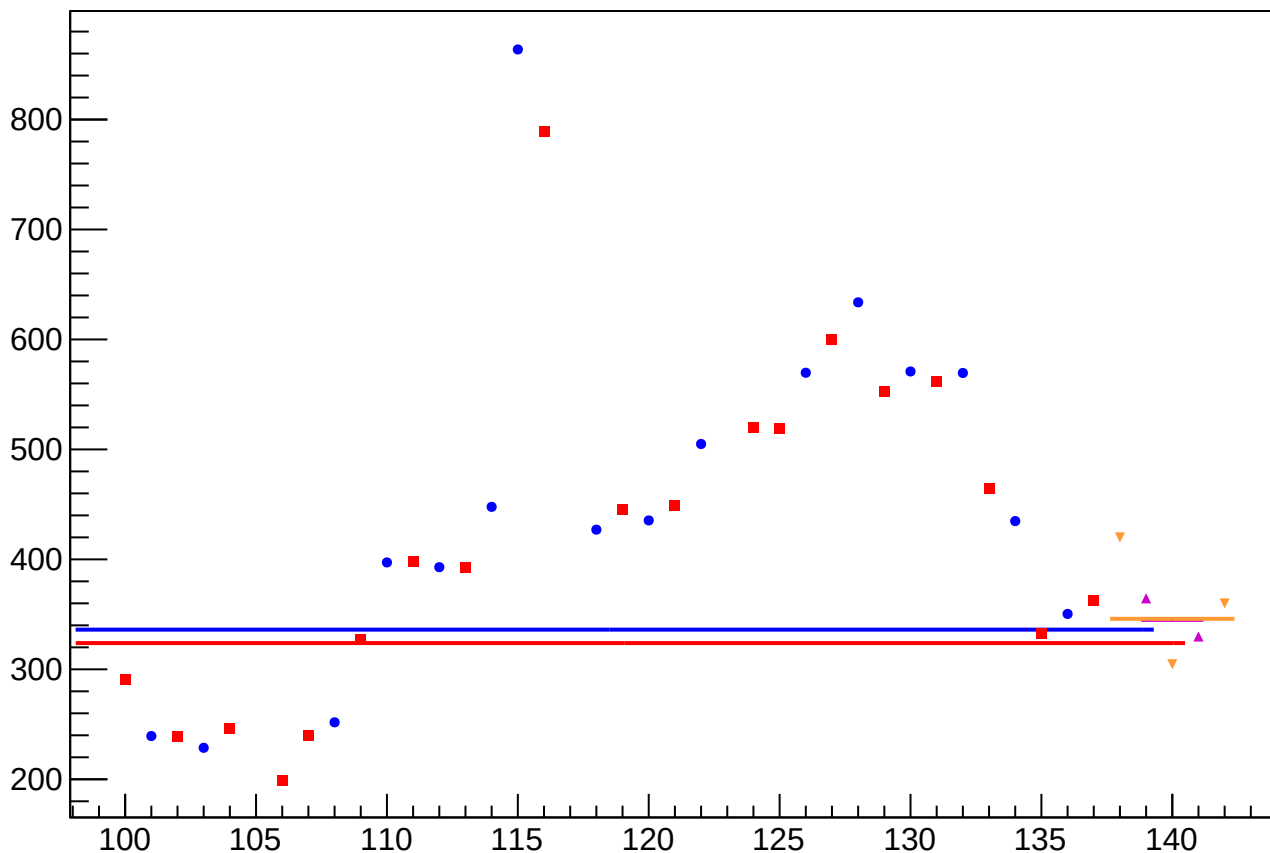
Right: 152.409 $\pm$ 91.561 χ^2 /NDF: 26.3/34

In: 148.572 $\pm$ 118.800 χ^2 /NDF:15.3/17

Out: 139.554 $\pm$ 112.084 χ^2 /NDF:16.0/21

All: 143.801 $\pm$ 81.526 χ^2 /NDF: 31.3/39

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 336.092 $\pm$ 0.094 χ^2 /NDF: 1618997.2/15

Left Out: 345.926 $\pm$ 0.172 χ^2 /NDF:80290.8/2

Right Out: 323.885 $\pm$ 0.089 χ^2 /NDF: 1665420.8/18

Left In: 344.960 $\pm$ 0.187 χ^2 /NDF:8493.8/1

Left: 345.481 $\pm$ 0.127 χ^2 /NDF: 88799.0/4

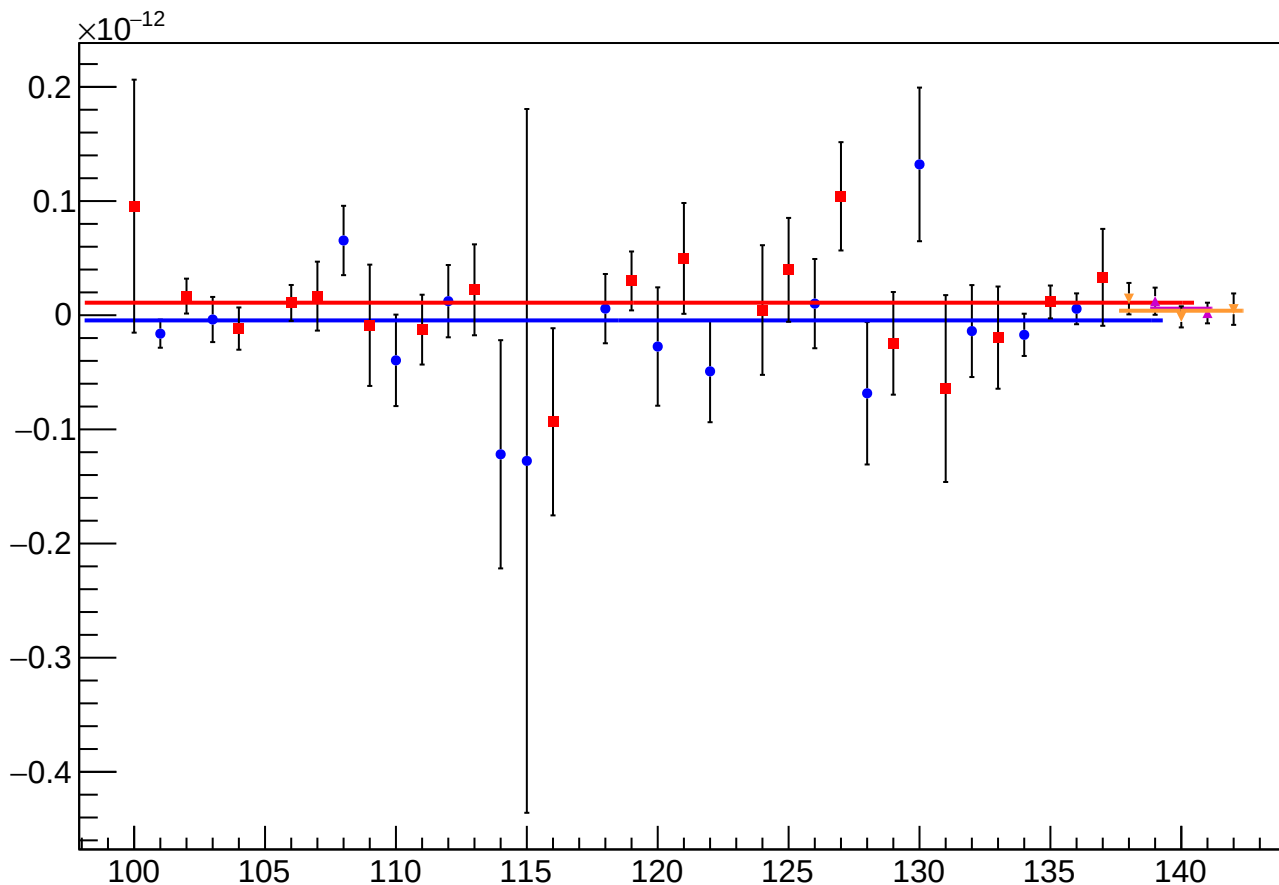
Right: 329.666 $\pm$ 0.065 χ^2 /NDF: 3293280.0/34

In: 337.889 $\pm$ 0.084 χ^2 /NDF:1629292.0/17

Out: 328.540 $\pm$ 0.079 χ^2 /NDF:1758594.5/21

All: 332.943 $\pm$ 0.058 χ^2 /NDF: 3394440.4/39

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 16.5/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.9/2

Right Out: 0.000 ± 0.000 χ^2/NDF : 12.4/18

Left In: 0.000 ± 0.000 χ^2/NDF : 0.5/1

Left: 0.000 ± 0.000 χ^2/NDF : 1.4/4

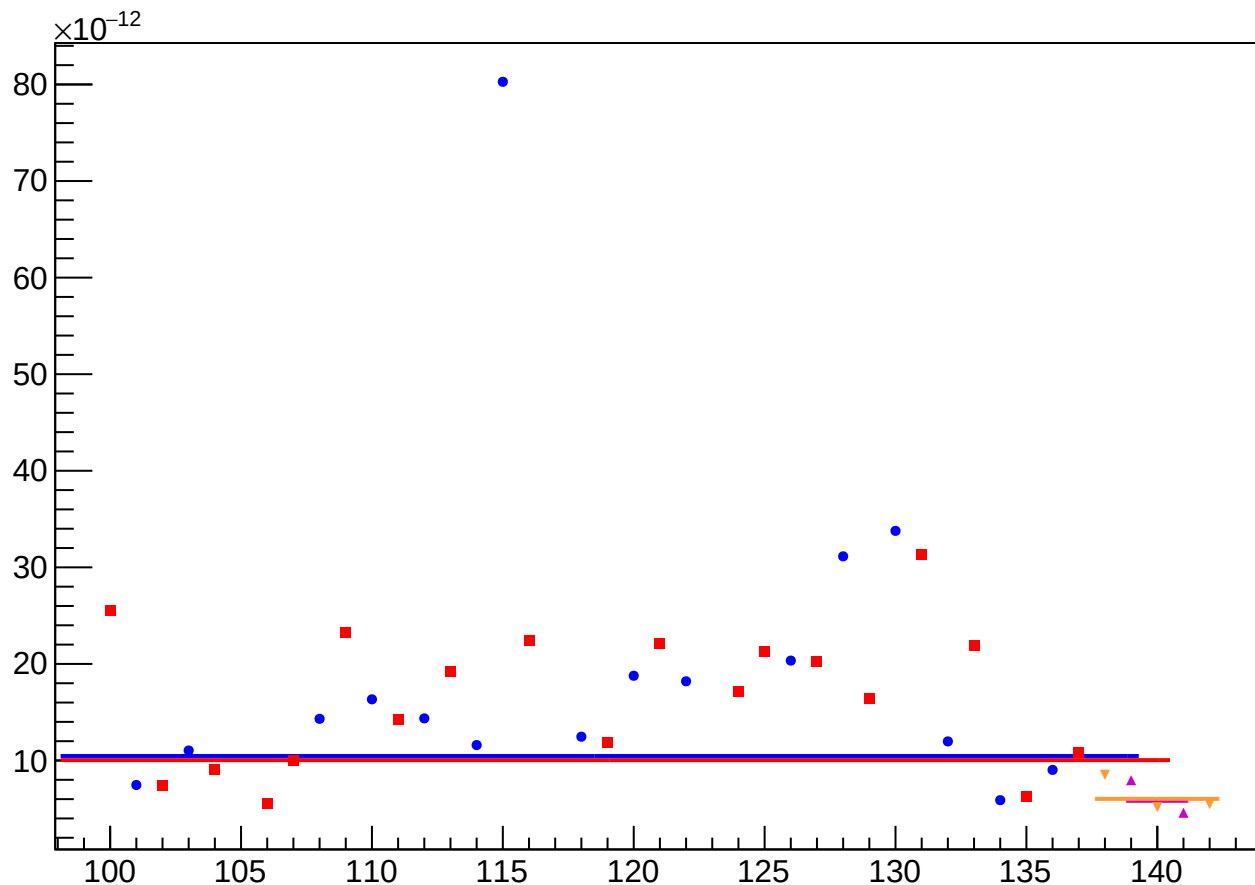
Right: 0.000 ± 0.000 χ^2/NDF : 31.8/34

In: 0.000 ± 0.000 χ^2/NDF : 18.1/17

Out: 0.000 ± 0.000 χ^2/NDF : 13.9/21

All: 0.000 ± 0.000 χ^2/NDF : 33.3/39

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1183833.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 85983.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1415778.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 101646.5/1

Left: 0.000+/-0.000 χ^2/NDF : 188501.1/4

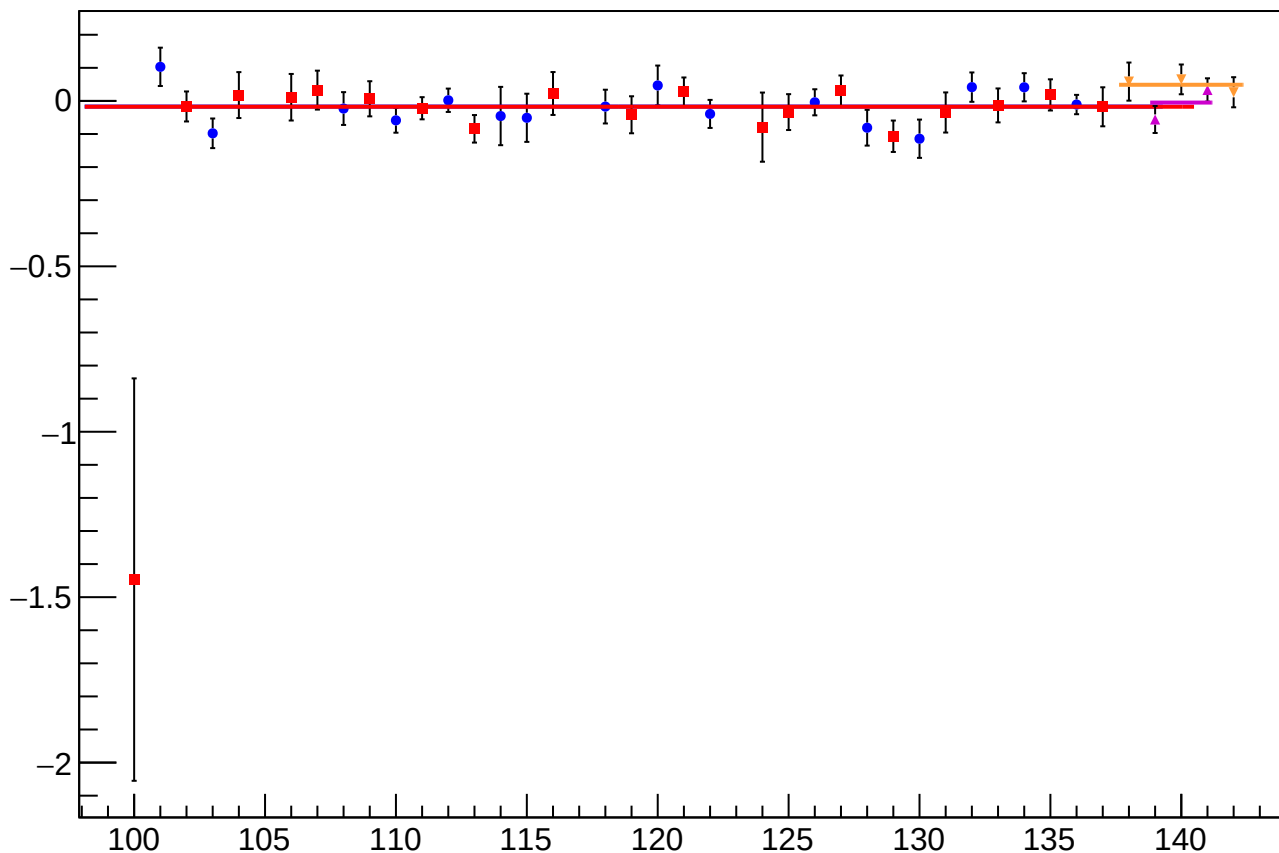
Right: 0.000+/-0.000 χ^2/NDF : 2604050.5/34

In: 0.000+/-0.000 χ^2/NDF : 1746798.7/17

Out: 0.000+/-0.000 χ^2/NDF : 1874715.8/21

All: 0.000+/-0.000 χ^2/NDF : 3624975.9/39

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.017 ± 0.011 χ^2/NDF : 18.8/15

Left Out: 0.049 ± 0.028 χ^2/NDF : 0.4/2

Right Out: -0.018 ± 0.012 χ^2/NDF : 16.8/18

Left In: -0.005 ± 0.027 χ^2/NDF : 2.7/1

Left: 0.021 ± 0.019 χ^2/NDF : 5.1/4

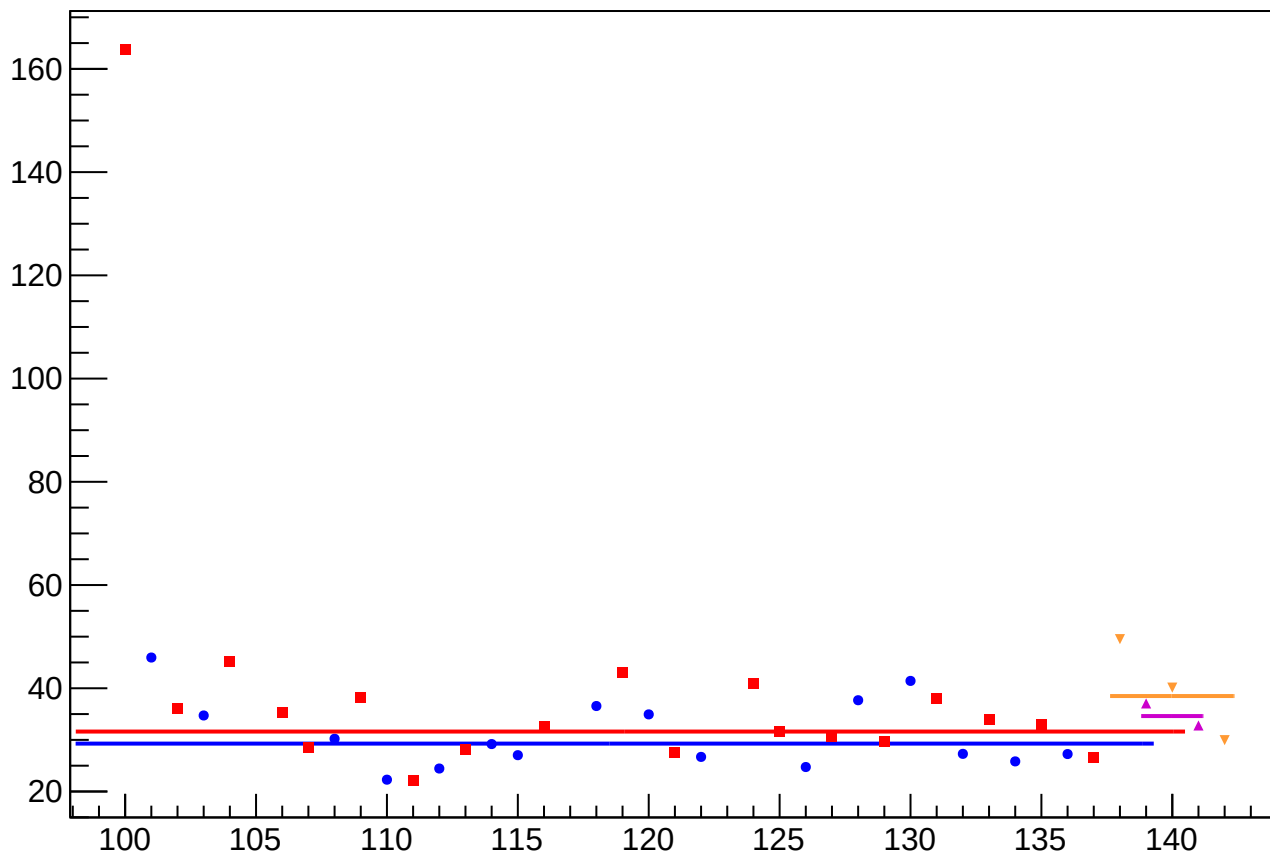
Right: -0.017 ± 0.008 χ^2/NDF : 35.7/34

In: -0.015 ± 0.010 χ^2/NDF : 21.7/17

Out: -0.007 ± 0.011 χ^2/NDF : 22.0/21

All: -0.011 ± 0.008 χ^2/NDF : 44.0/39

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.278+/-0.008 χ^2/NDF : 560654.9/15

Left Out: 38.494+/-0.020 χ^2/NDF :146441.7/2

Right Out: 31.613+/-0.009 χ^2/NDF : 572190.6/18

Left In: 34.616+/-0.019 χ^2/NDF :12514.6/1

Left: 36.465+/-0.014 χ^2/NDF : 179072.1/4

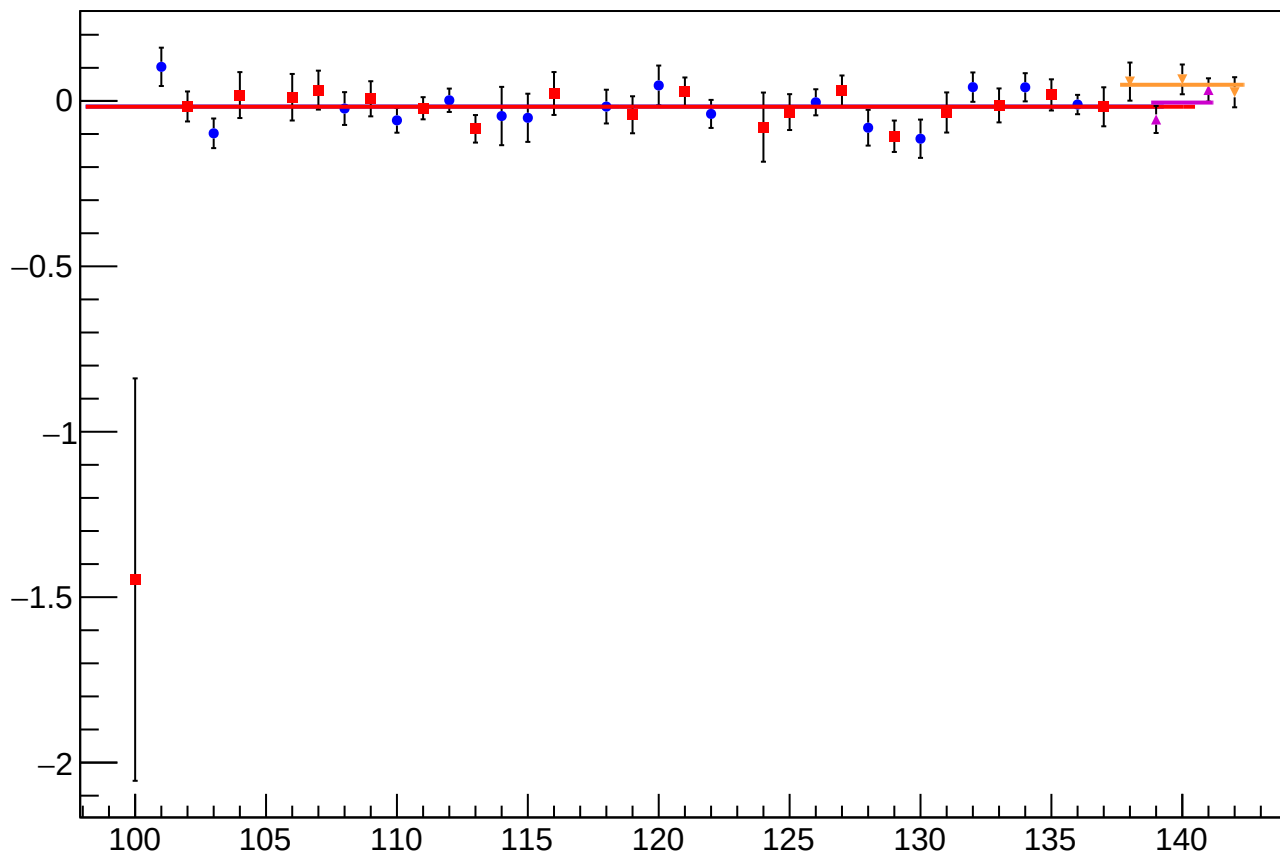
Right: 30.371+/-0.006 χ^2/NDF : 1172478.3/34

In: 30.095+/-0.007 χ^2/NDF :640858.1/17

Out: 32.698+/-0.008 χ^2/NDF :820575.8/21

All: 31.316+/-0.005 χ^2/NDF : 1519770.1/39

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.017 ± 0.011 χ^2/NDF : 18.8/15

Left Out: 0.049 ± 0.028 χ^2/NDF : 0.4/2

Right Out: -0.018 ± 0.012 χ^2/NDF : 16.8/18

Left In: -0.005 ± 0.027 χ^2/NDF : 2.7/1

Left: 0.021 ± 0.019 χ^2/NDF : 5.1/4

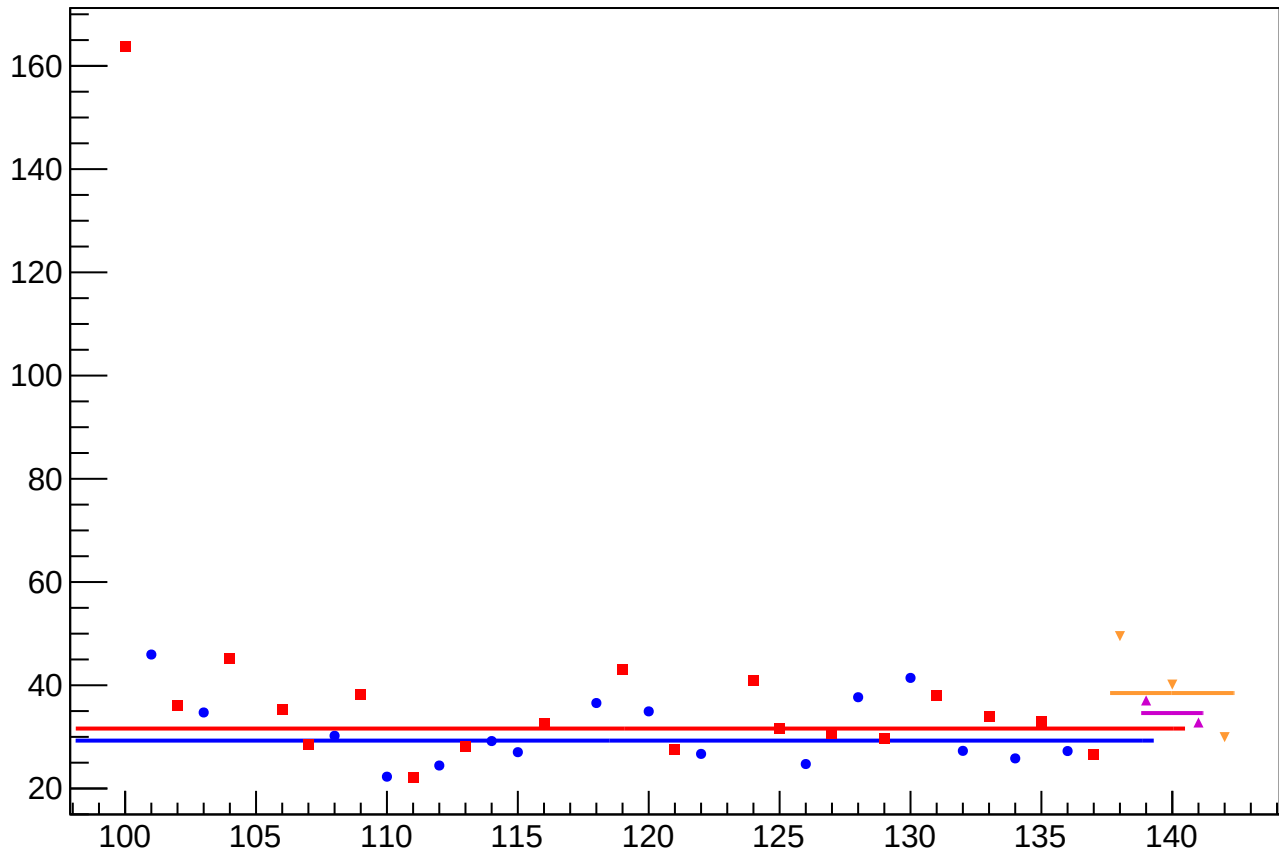
Right: -0.017 ± 0.008 χ^2/NDF : 35.7/34

In: -0.015 ± 0.010 χ^2/NDF : 21.7/17

Out: -0.007 ± 0.011 χ^2/NDF : 22.0/21

All: -0.011 ± 0.008 χ^2/NDF : 44.0/39

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.278+/-0.008 χ^2/NDF : 560654.9/15

Left Out: 38.494+/-0.020 χ^2/NDF : 146441.7/2

Right Out: 31.613+/-0.009 χ^2/NDF : 572190.6/18

Left In: 34.616+/-0.019 χ^2/NDF : 12514.6/1

Left: 36.465+/-0.014 χ^2/NDF : 179072.1/4

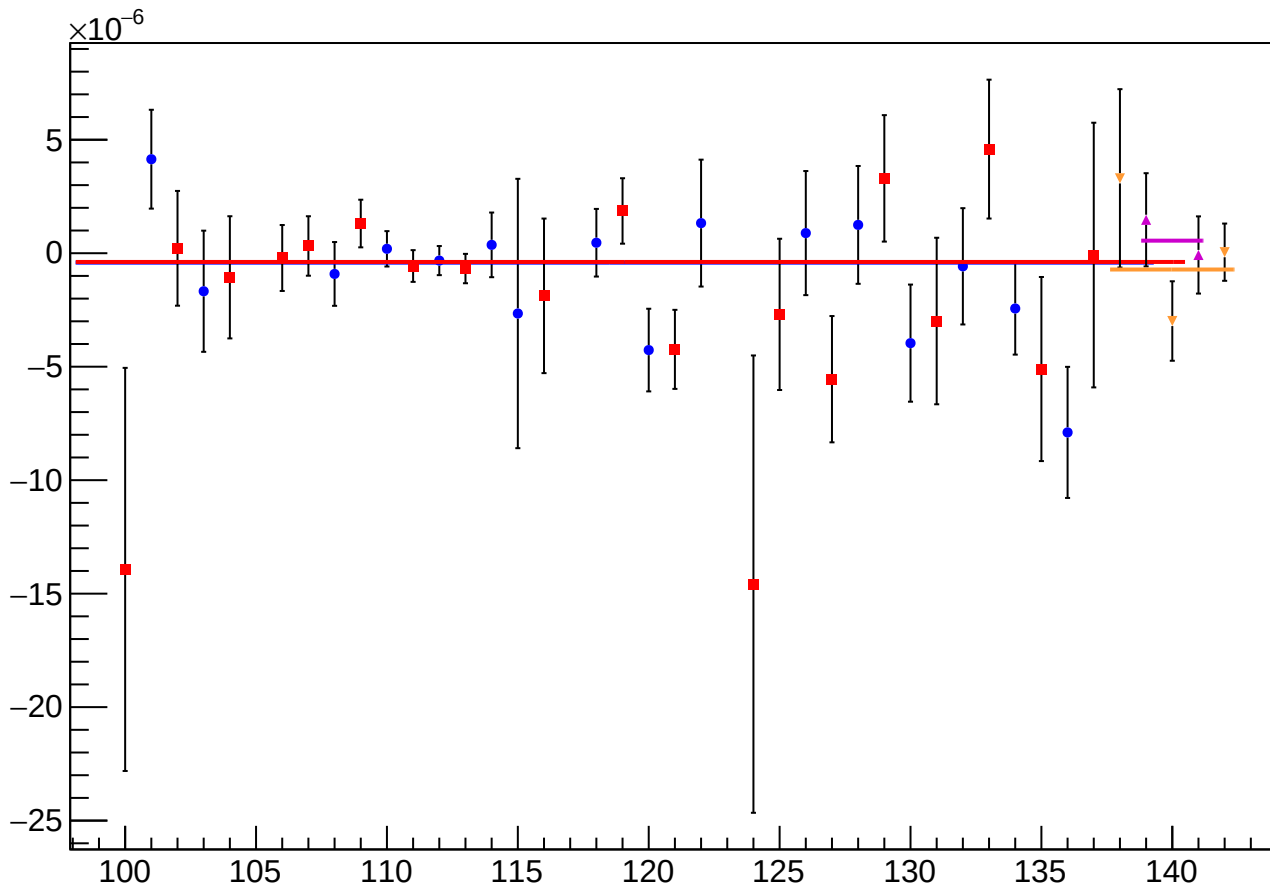
Right: 30.371+/-0.006 χ^2/NDF : 1172478.3/34

In: 30.095+/-0.007 χ^2/NDF : 640858.1/17

Out: 32.698+/-0.008 χ^2/NDF : 820575.8/21

All: 31.316+/-0.005 χ^2/NDF : 1519770.1/39

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 21.2/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 3.1/2$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 25.3/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.3/1$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 4.0/4$

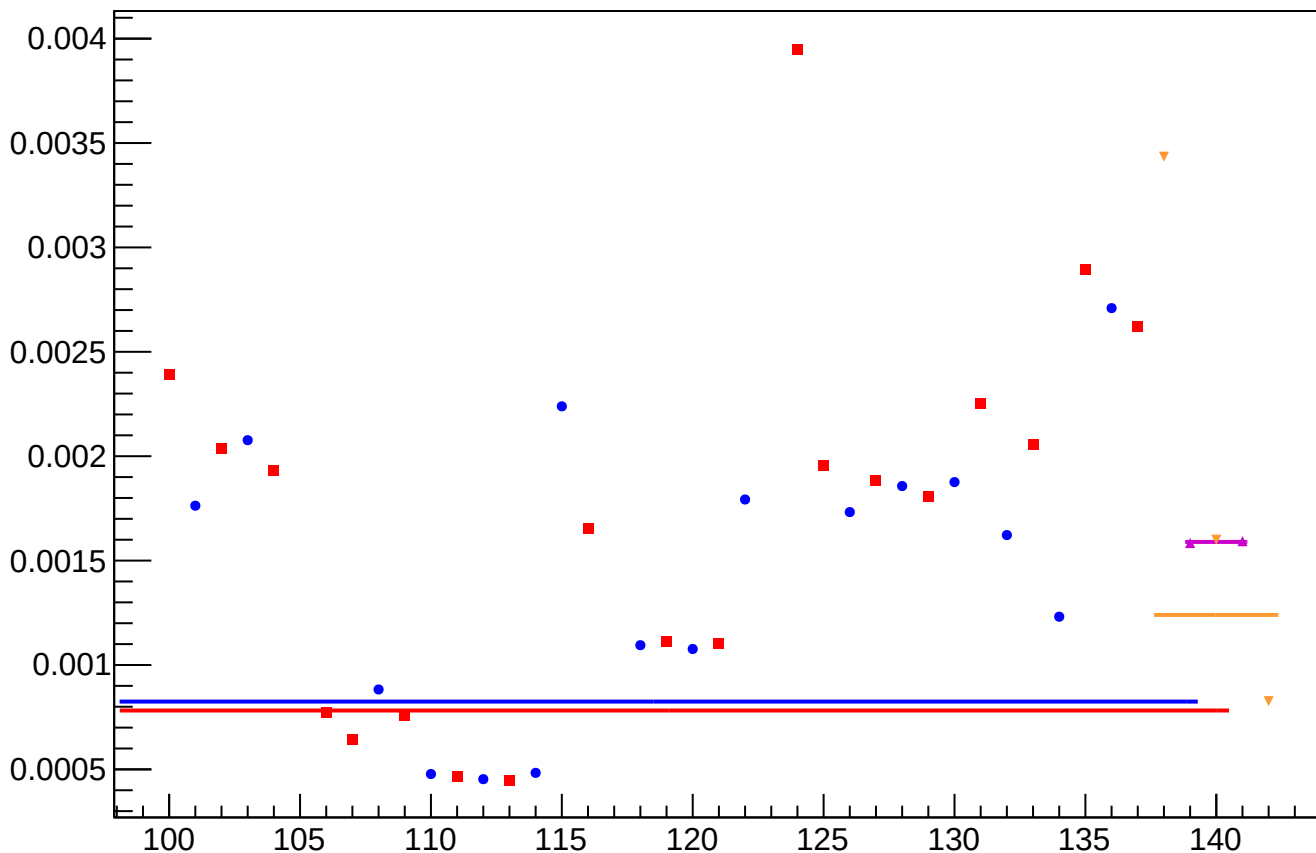
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 46.5/34$

In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 22.1/17$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 28.5/21$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 50.6/39$

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 4448725.9/15

Left Out: 0.001+/-0.000

χ^2/NDF :922995.4/2

Right Out: 0.001+/-0.000

χ^2/NDF : 4638419.3/18

Left In: 0.002+/-0.000

χ^2/NDF :21.7/1

Left: 0.001+/-0.000

χ^2/NDF : 1013712.8/4

Right: 0.001+/-0.000

χ^2/NDF : 9101271.0/34

In: 0.001+/-0.000

χ^2/NDF :5079905.4/17

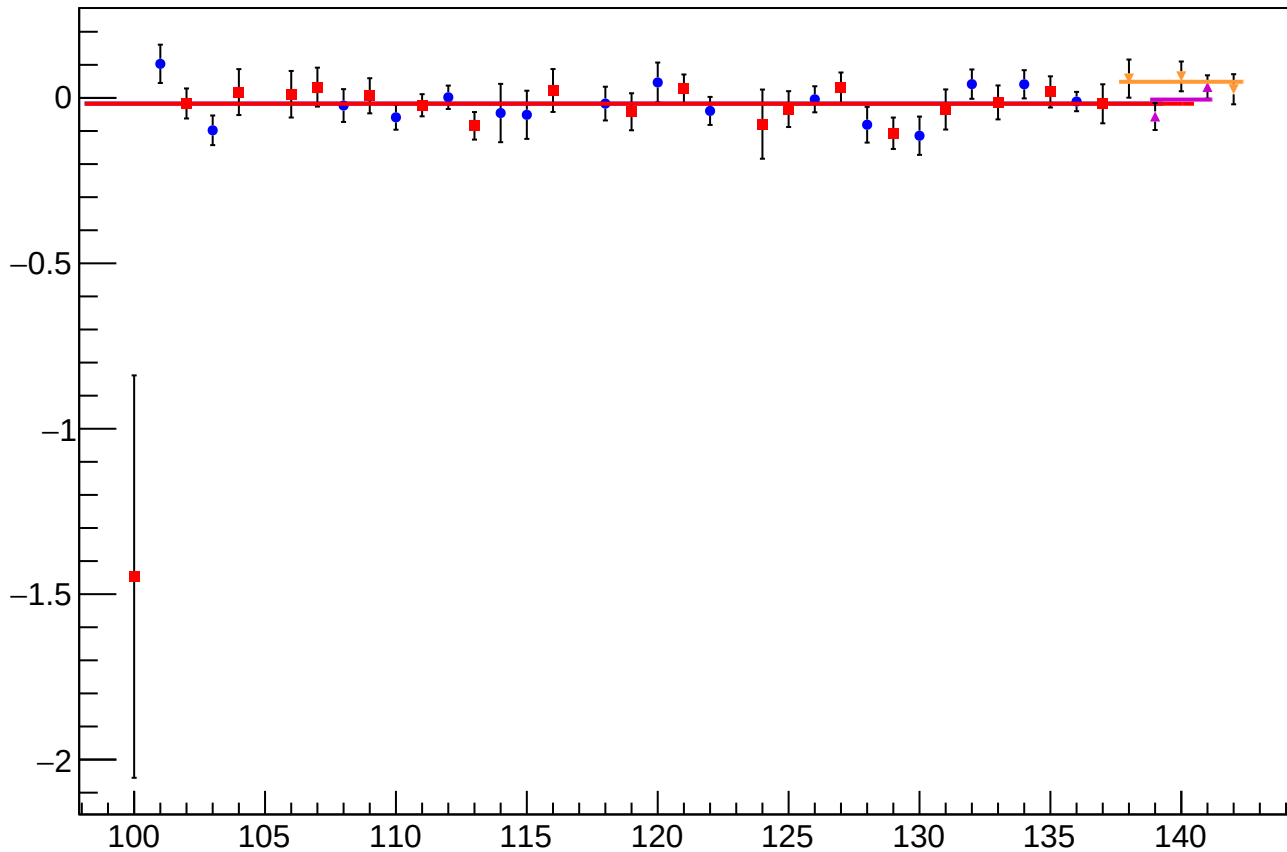
Out: 0.001+/-0.000

χ^2/NDF :5941734.3/21

All: 0.001+/-0.000

χ^2/NDF : 11042015.1/39

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.017 ± 0.011 χ^2/NDF : 18.8/15

Left Out: 0.049 ± 0.028 χ^2/NDF : 0.4/2

Right Out: -0.018 ± 0.012 χ^2/NDF : 16.8/18

Left In: -0.005 ± 0.027 χ^2/NDF : 2.7/1

Left: 0.021 ± 0.019 χ^2/NDF : 5.1/4

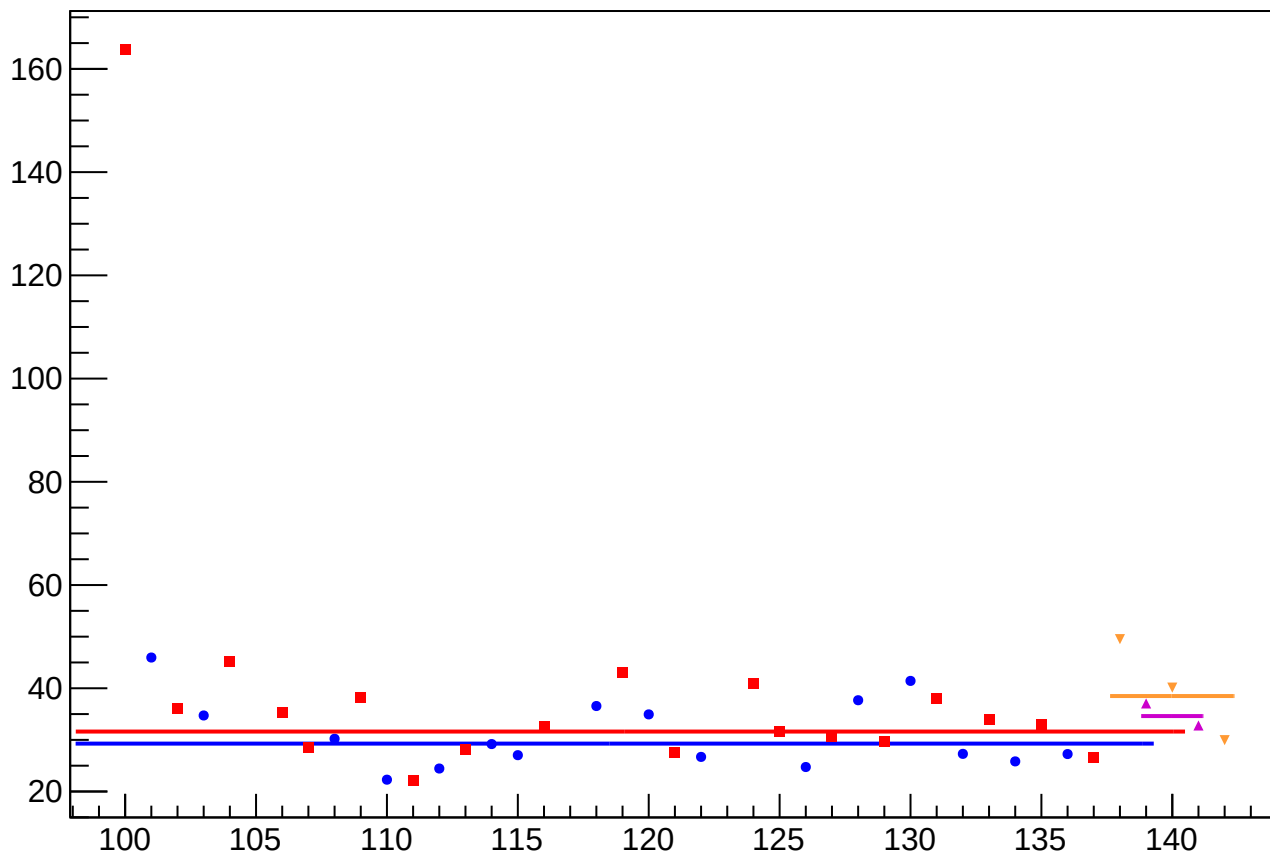
Right: -0.017 ± 0.008 χ^2/NDF : 35.7/34

In: -0.015 ± 0.010 χ^2/NDF : 21.7/17

Out: -0.007 ± 0.011 χ^2/NDF : 22.0/21

All: -0.011 ± 0.008 χ^2/NDF : 44.0/39

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.278+/-0.008 χ^2/NDF : 560654.1/15

Left Out: 38.493+/-0.020 χ^2/NDF :146425.3/2

Right Out: 31.614+/-0.009 χ^2/NDF : 572187.4/18

Left In: 34.615+/-0.019 χ^2/NDF :12515.0/1

Left: 36.464+/-0.014 χ^2/NDF : 179062.2/4

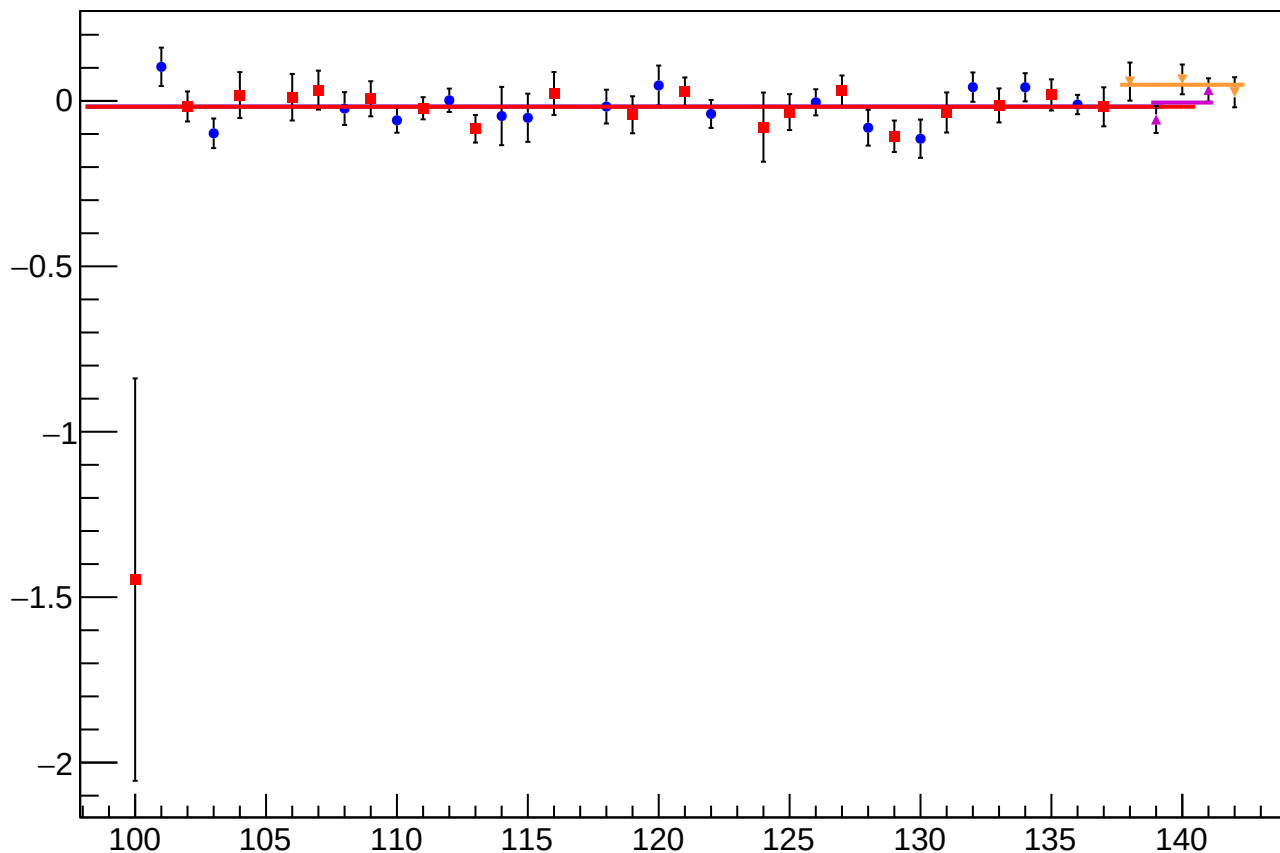
Right: 30.371+/-0.006 χ^2/NDF : 1172478.0/34

In: 30.095+/-0.007 χ^2/NDF :640837.8/17

Out: 32.698+/-0.008 χ^2/NDF :820543.4/21

All: 31.316+/-0.005 χ^2/NDF : 1519724.8/39

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.017 ± 0.011 χ^2/NDF : 18.8/15

Left Out: 0.049 ± 0.028 χ^2/NDF : 0.4/2

Right Out: -0.018 ± 0.012 χ^2/NDF : 16.8/18

Left In: -0.005 ± 0.027 χ^2/NDF : 2.7/1

Left: 0.021 ± 0.019 χ^2/NDF : 5.1/4

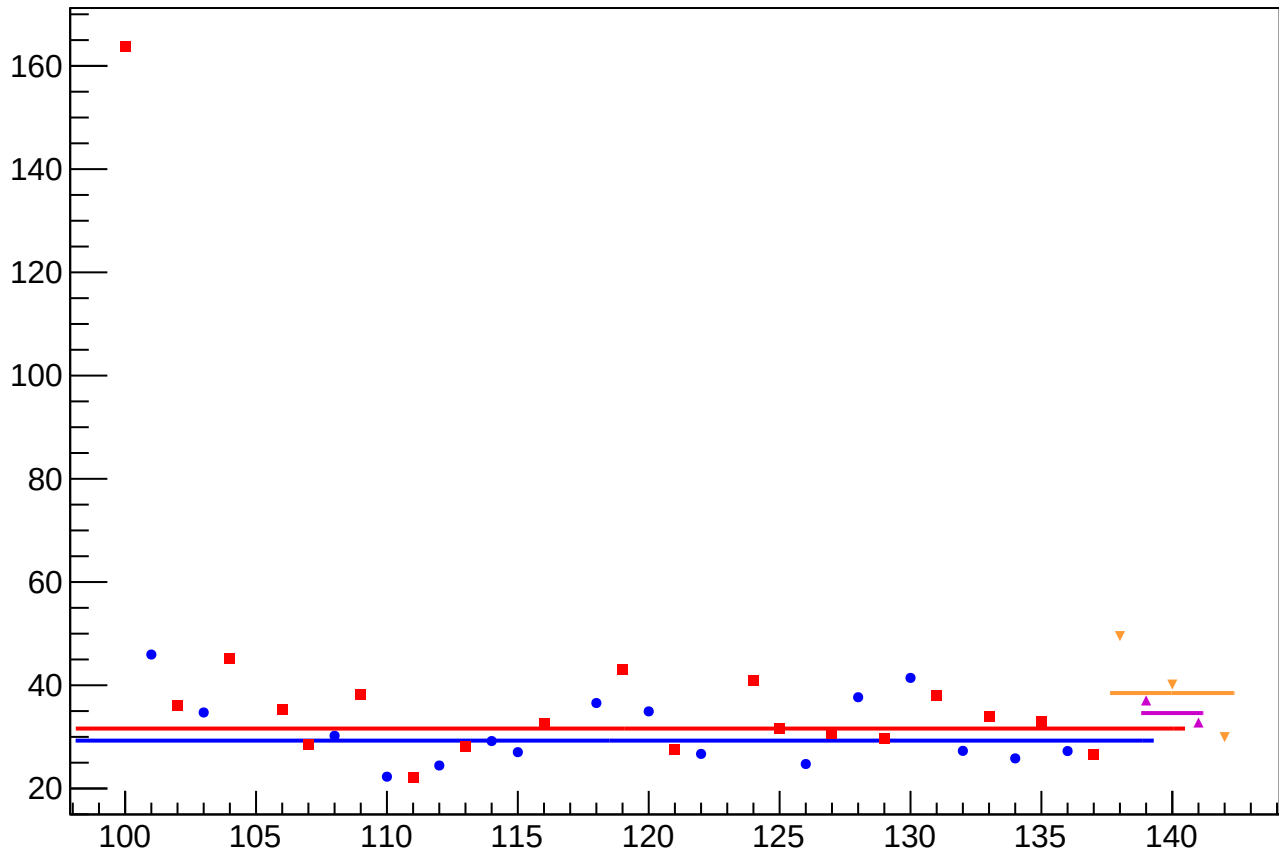
Right: -0.017 ± 0.008 χ^2/NDF : 35.7/34

In: -0.015 ± 0.010 χ^2/NDF : 21.7/17

Out: -0.007 ± 0.011 χ^2/NDF : 22.0/21

All: -0.011 ± 0.008 χ^2/NDF : 44.0/39

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.278+/-0.008 χ^2/NDF : 560654.1/15

Left Out: 38.493+/-0.020 χ^2/NDF : 146425.3/2

Right Out: 31.614+/-0.009 χ^2/NDF : 572187.4/18

Left In: 34.615+/-0.019 χ^2/NDF : 12515.0/1

Left: 36.464+/-0.014 χ^2/NDF : 179062.2/4

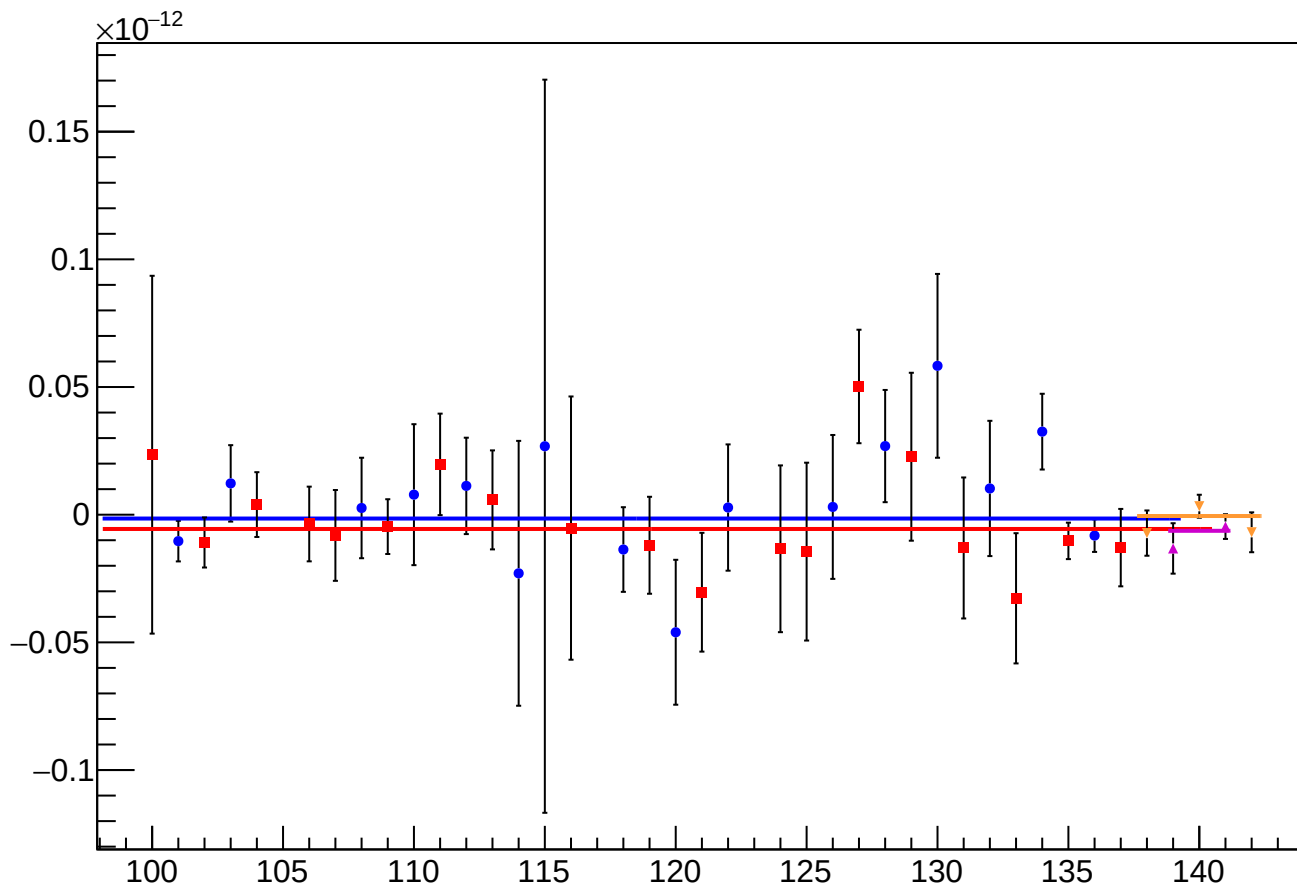
Right: 30.371+/-0.006 χ^2/NDF : 1172478.0/34

In: 30.095+/-0.007 χ^2/NDF : 640837.8/17

Out: 32.698+/-0.008 χ^2/NDF : 820543.4/21

All: 31.316+/-0.005 χ^2/NDF : 1519724.8/39

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 2.0/2

Right Out: -0.000+/-0.000 χ^2/NDF : 13.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.6/1

Left: -0.000+/-0.000 χ^2/NDF : 3.6/4

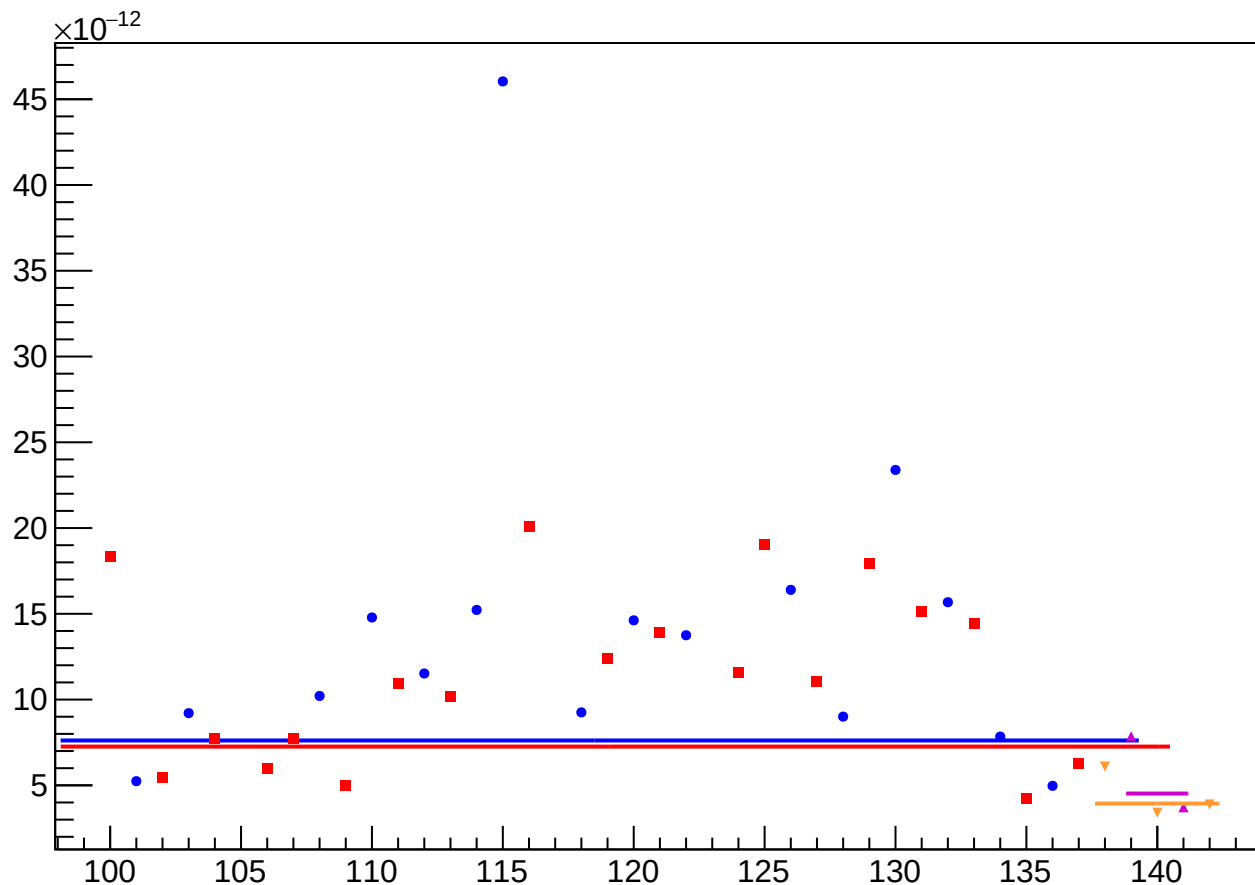
Right: -0.000+/-0.000 χ^2/NDF : 30.9/34

In: -0.000+/-0.000 χ^2/NDF : 18.2/17

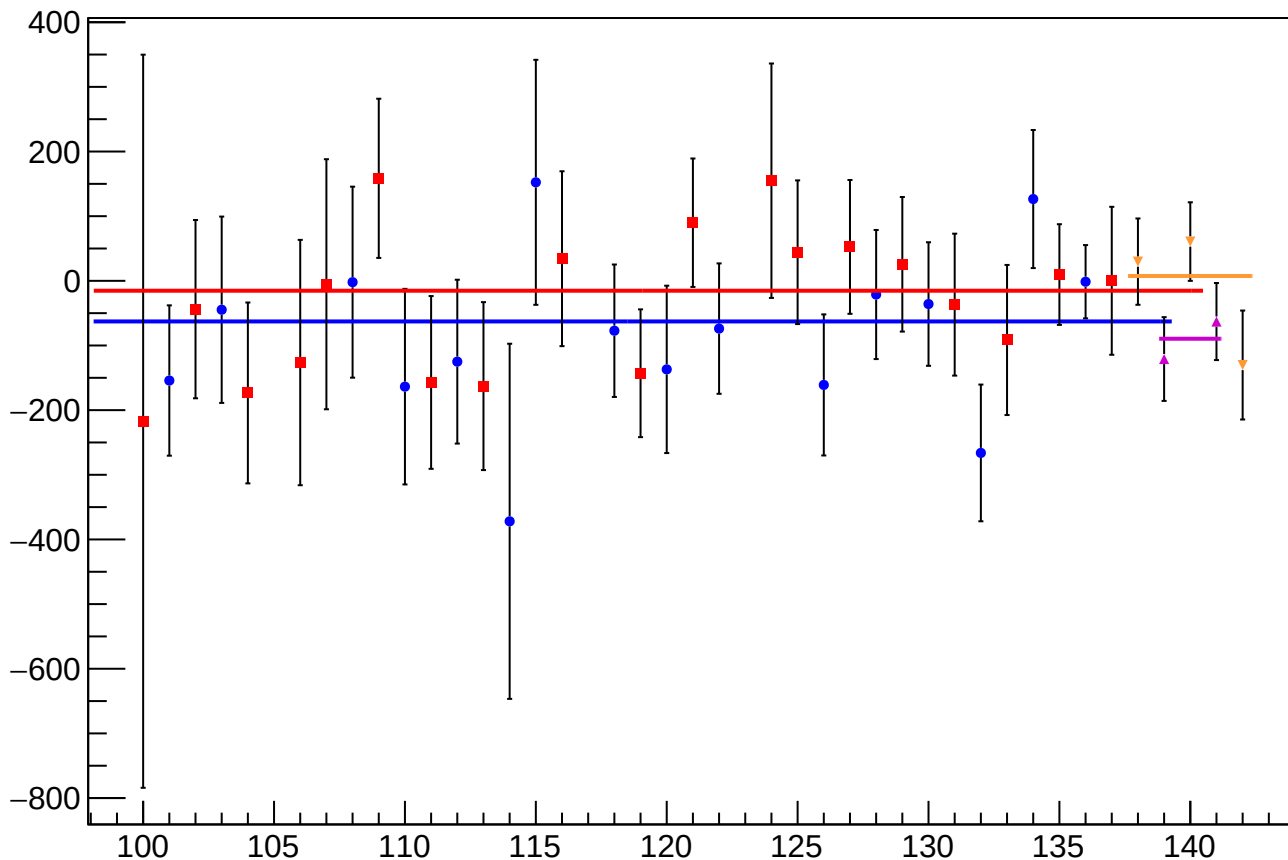
Out: -0.000+/-0.000 χ^2/NDF : 16.3/21

All: -0.000+/-0.000 χ^2/NDF : 34.5/39

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -62.798 $\pm$ 27.213 χ^2 /NDF: 13.5/15

Left Out: 7.492 $\pm$ 39.649 χ^2 /NDF:3.6/2

Right Out: -15.288 $\pm$ 27.770 χ^2 /NDF: 11.5/18

Left In: -89.554 $\pm$ 43.852 χ^2 /NDF:0.4/1

Left: -36.159 $\pm$ 29.410 χ^2 /NDF: 6.7/4

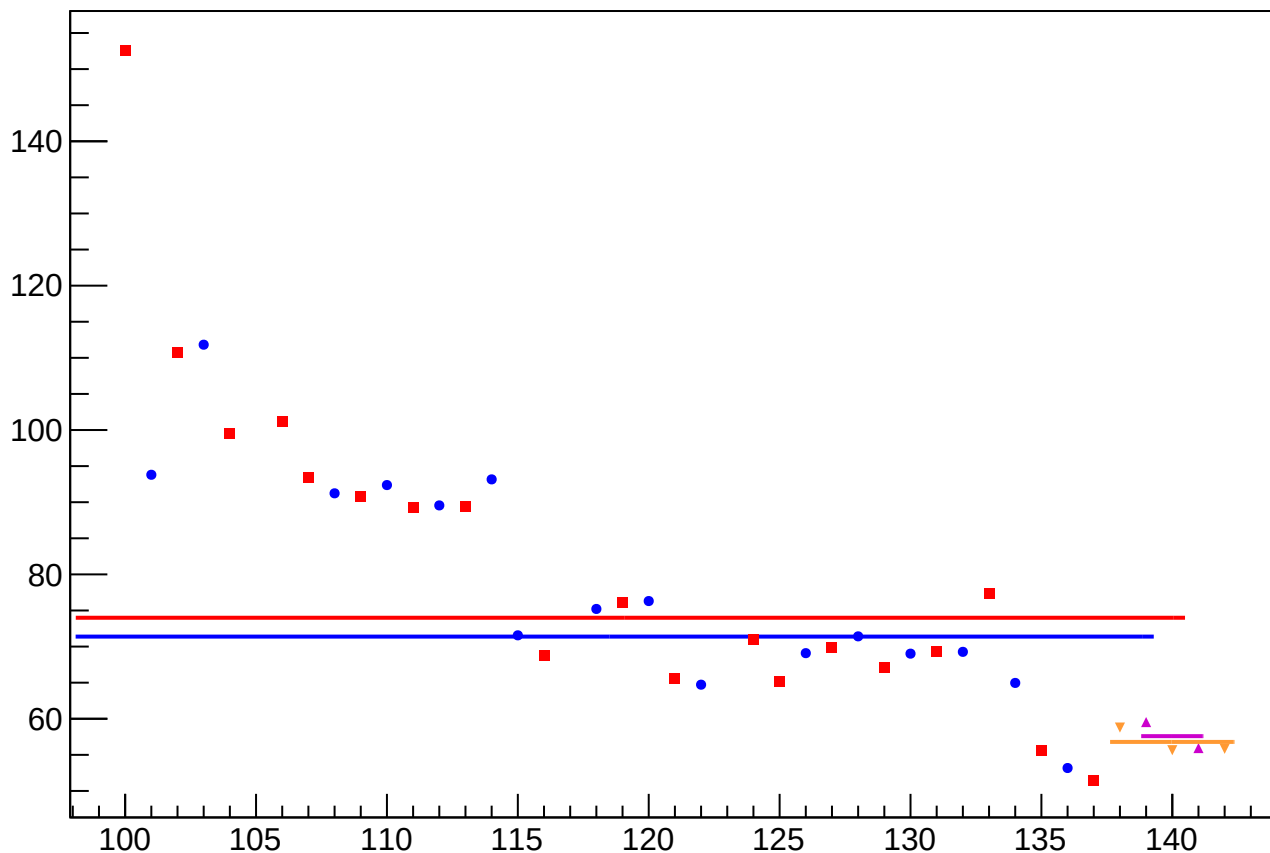
Right: -39.524 $\pm$ 19.436 χ^2 /NDF: 26.4/34

In: -70.237 $\pm$ 23.123 χ^2 /NDF:14.2/17

Out: -7.791 $\pm$ 22.746 χ^2 /NDF:15.2/21

All: -38.501 $\pm$ 16.215 χ^2 /NDF: 33.1/39

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 71.383 $\pm$ 0.019 χ^2 /NDF: 590909.3/15

Left Out: 56.792 $\pm$ 0.028 χ^2 /NDF: 2747.8/2

Right Out: 73.994 $\pm$ 0.020 χ^2 /NDF: 638445.5/18

Left In: 57.592 $\pm$ 0.031 χ^2 /NDF: 3347.3/1

Left: 57.152 $\pm$ 0.021 χ^2 /NDF: 6460.7/4

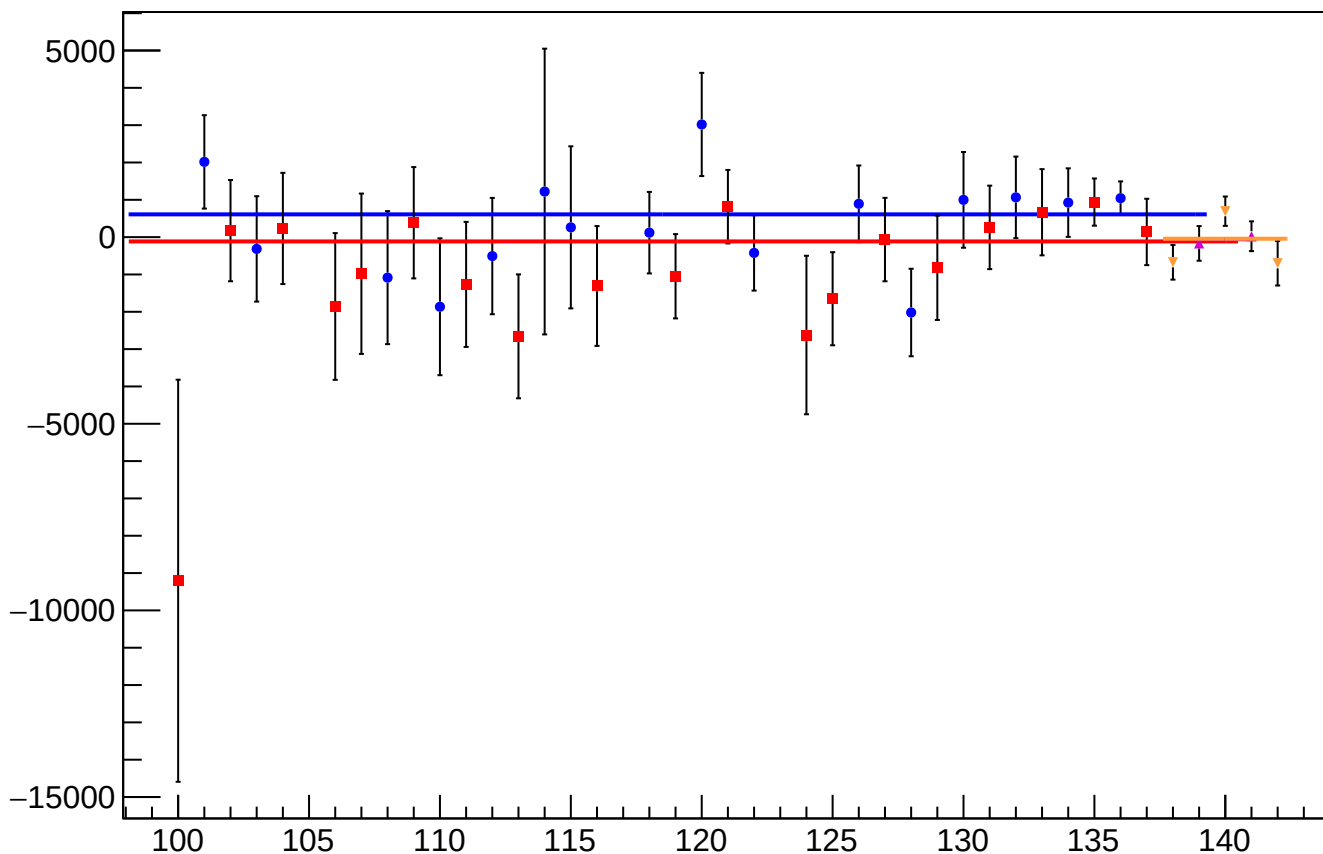
Right: 72.662 $\pm$ 0.014 χ^2 /NDF: 1238370.4/34

In: 67.549 $\pm$ 0.016 χ^2 /NDF: 737080.4/17

Out: 68.333 $\pm$ 0.016 χ^2 /NDF: 893744.6/21

All: 67.947 $\pm$ 0.011 χ^2 /NDF: 1631992.9/39

asym_sam_15_26_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 610.561 $\pm$ 266.802 χ^2 /NDF: 15.7/15

Left Out: -42.350 $\pm$ 268.077 χ^2 /NDF: 6.6/2

Right Out: -114.633 $\pm$ 284.312 χ^2 /NDF: 15.6/18

Left In: -57.556 $\pm$ 302.438 χ^2 /NDF: 0.1/1

Left: -49.040 $\pm$ 200.612 χ^2 /NDF: 6.7/4

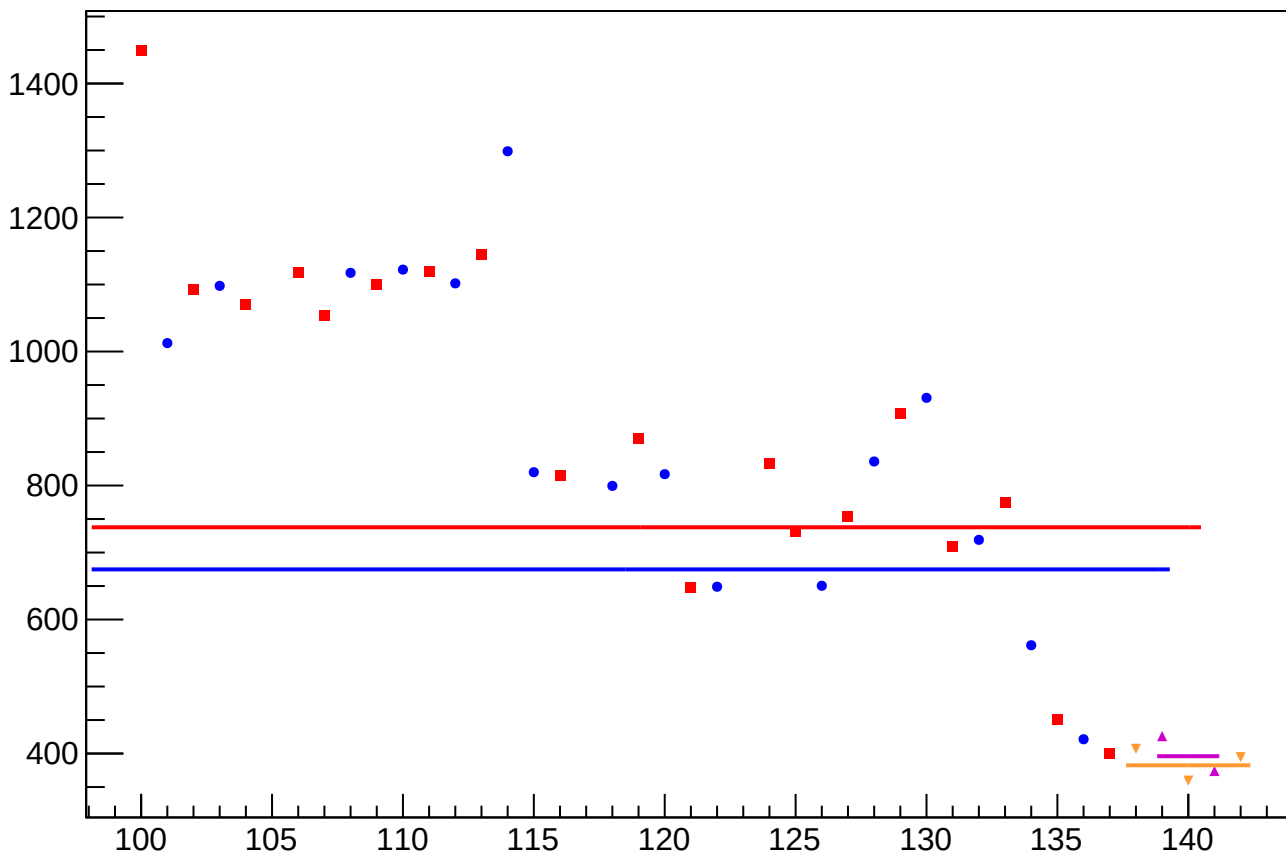
Right: 270.981 $\pm$ 194.553 χ^2 /NDF: 34.7/34

In: 318.165 $\pm$ 200.076 χ^2 /NDF: 18.5/17

Out: -76.369 $\pm$ 195.046 χ^2 /NDF: 22.2/21

All: 115.876 $\pm$ 139.663 χ^2 /NDF: 42.7/39

asym_sam_15_26_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 674.830+/-0.189 χ^2/NDF : 1617598.7/15

Left Out: 382.454+/-0.190 χ^2/NDF :13193.8/2

Right Out: 737.674+/-0.201 χ^2/NDF : 1516748.6/18

Left In: 396.019+/-0.214 χ^2/NDF :14462.3/1

Left: 388.423+/-0.142 χ^2/NDF : 29909.2/4

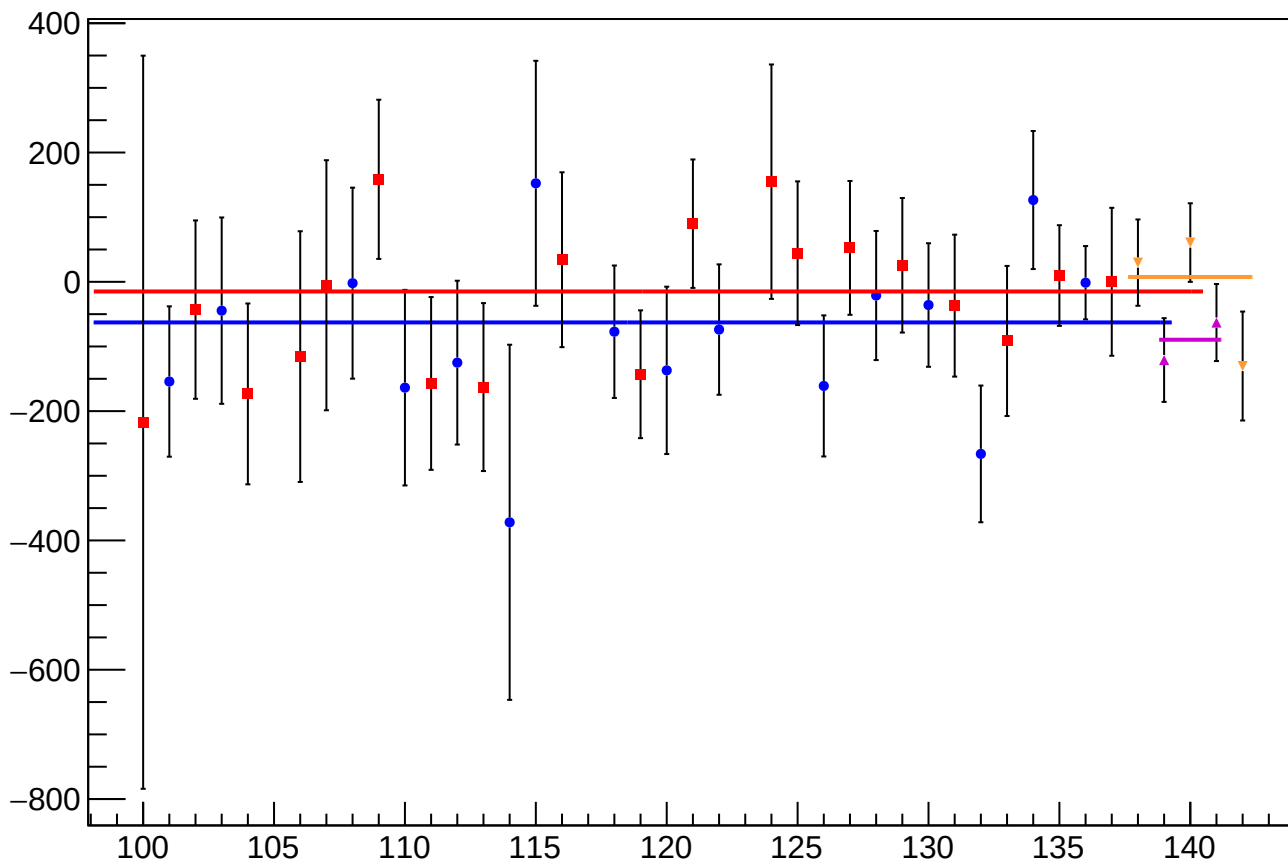
Right: 704.257+/-0.138 χ^2/NDF : 3186306.4/34

In: 552.811+/-0.141 χ^2/NDF :2587913.7/17

Out: 549.633+/-0.138 χ^2/NDF :3182626.2/21

All: 551.181+/-0.099 χ^2/NDF : 5770798.6/39

cor_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -62.789 ± 27.213 χ^2/NDF : 13.5/15

Left Out: 7.489 ± 39.649 χ^2/NDF : 3.6/2

Right Out: -14.932 ± 27.783 χ^2/NDF : 11.4/18

Left In: -89.557 ± 43.852 χ^2/NDF : 0.4/1

Left: -36.161 ± 29.410 χ^2/NDF : 6.7/4

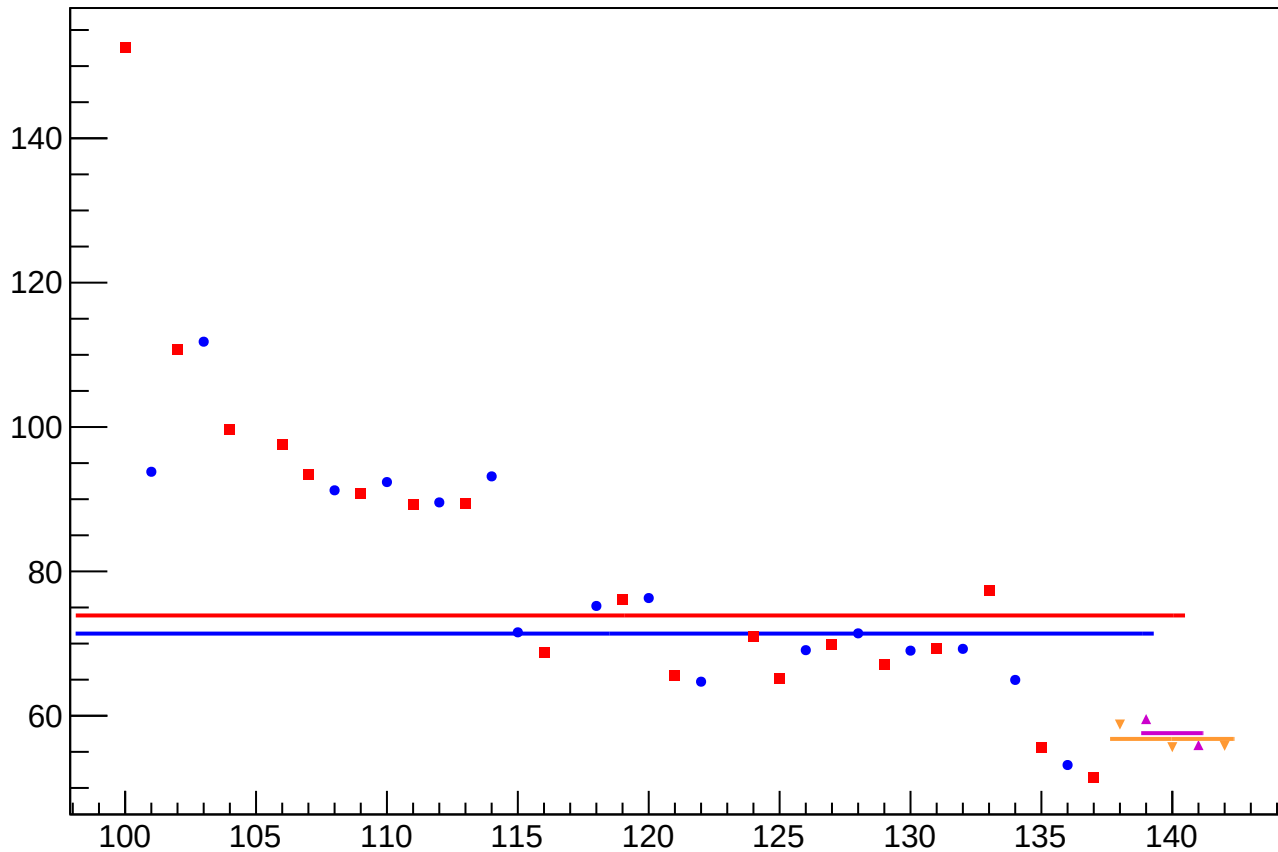
Right: -39.357 ± 19.441 χ^2/NDF : 26.4/34

In: -70.232 ± 23.123 χ^2/NDF : 14.2/17

Out: -7.548 ± 22.753 χ^2/NDF : 15.2/21

All: -38.385 ± 16.218 χ^2/NDF : 33.1/39

cor_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 71.383 $\pm$ 0.019 χ^2 /NDF: 590911.7/15

Left Out: 56.792 $\pm$ 0.028 χ^2 /NDF: 2747.8/2

Right Out: 73.894 $\pm$ 0.020 χ^2 /NDF: 627014.3/18

Left In: 57.592 $\pm$ 0.031 χ^2 /NDF: 3347.3/1

Left: 57.152 $\pm$ 0.021 χ^2 /NDF: 6460.7/4

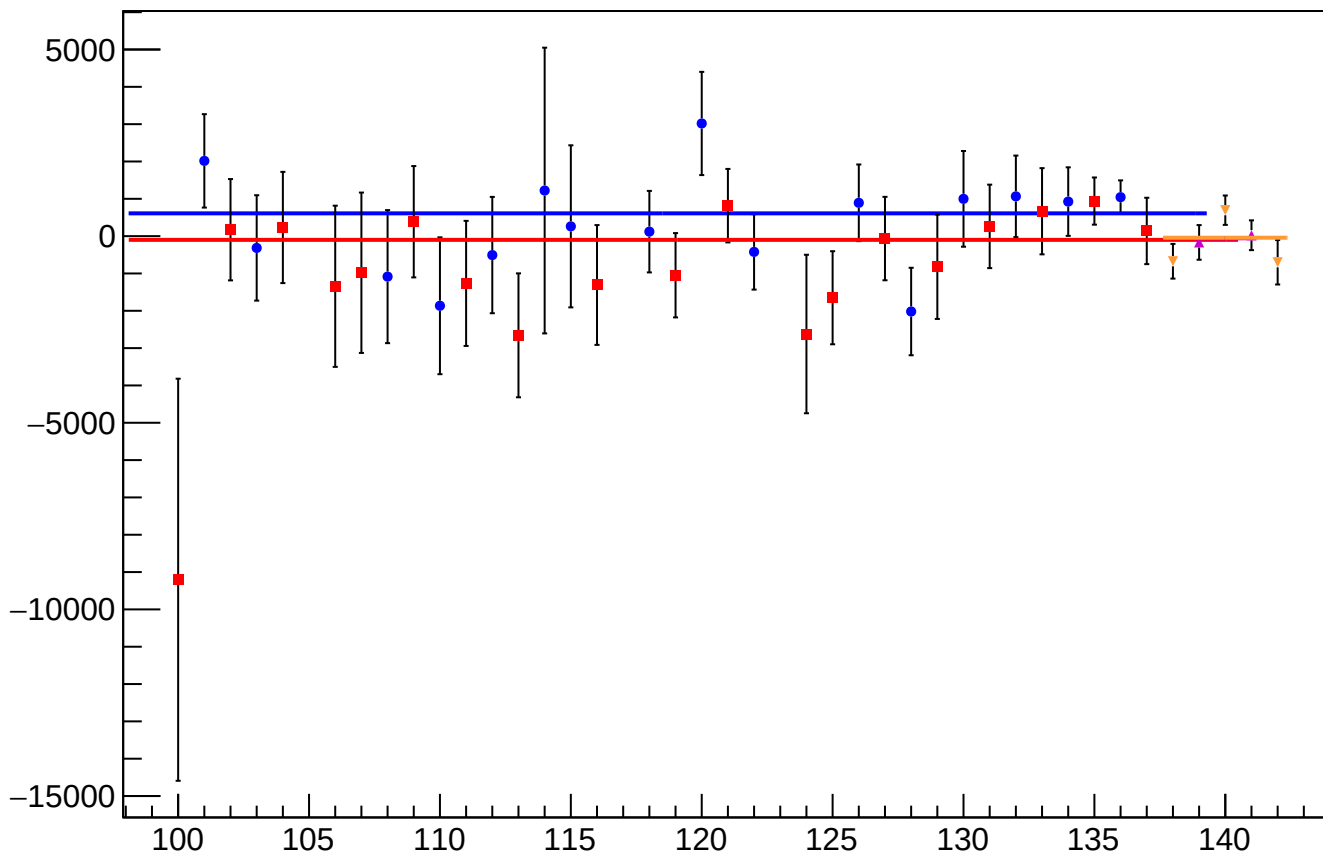
Right: 72.613 $\pm$ 0.014 χ^2 /NDF: 1226261.8/34

In: 67.549 $\pm$ 0.016 χ^2 /NDF: 737082.9/17

Out: 68.262 $\pm$ 0.016 χ^2 /NDF: 879314.5/21

All: 67.911 $\pm$ 0.011 χ^2 /NDF: 1617364.4/39

asym_sam_15_26_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 610.549 $\pm$ 266.803 χ^2 /NDF: 15.7/15

Left Out: -42.346 $\pm$ 268.077 χ^2 /NDF: 6.6/2

Right Out: -99.555 $\pm$ 284.831 χ^2 /NDF: 15.1/18

Left In: -57.568 $\pm$ 302.438 χ^2 /NDF: 0.1/1

Left: -49.043 $\pm$ 200.612 χ^2 /NDF: 6.7/4

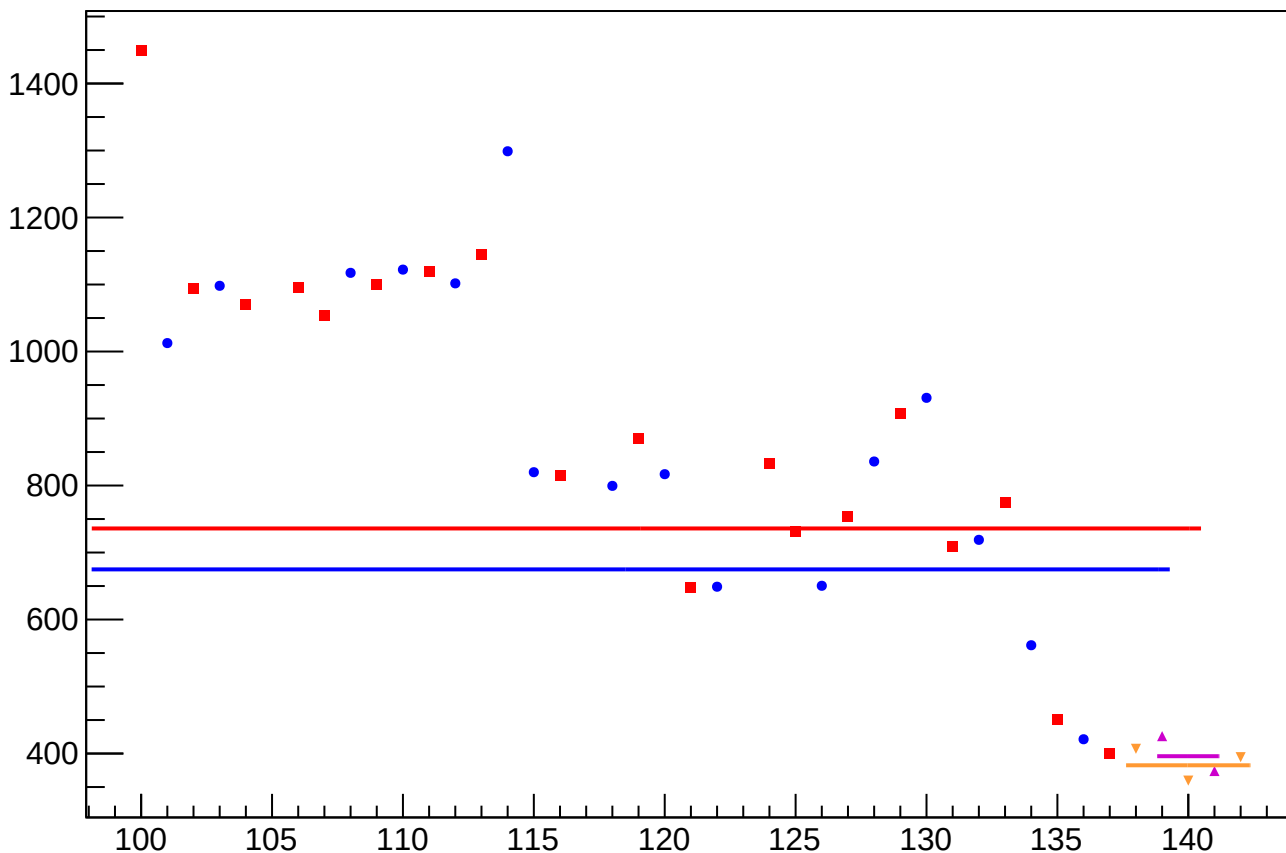
Right: 278.680 $\pm$ 194.720 χ^2 /NDF: 34.1/34

In: 318.153 $\pm$ 200.077 χ^2 /NDF: 18.5/17

Out: -69.219 $\pm$ 195.213 χ^2 /NDF: 21.7/21

All: 119.702 $\pm$ 139.724 χ^2 /NDF: 42.2/39

asym_sam_15_26_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 674.831+/-0.189 χ^2/NDF : 1617624.1/15

Left Out: 382.454+/-0.190 χ^2/NDF :13194.2/2

Right Out: 735.919+/-0.201 χ^2/NDF : 1496977.2/18

Left In: 396.019+/-0.214 χ^2/NDF :14462.0/1

Left: 388.423+/-0.142 χ^2/NDF : 29909.4/4

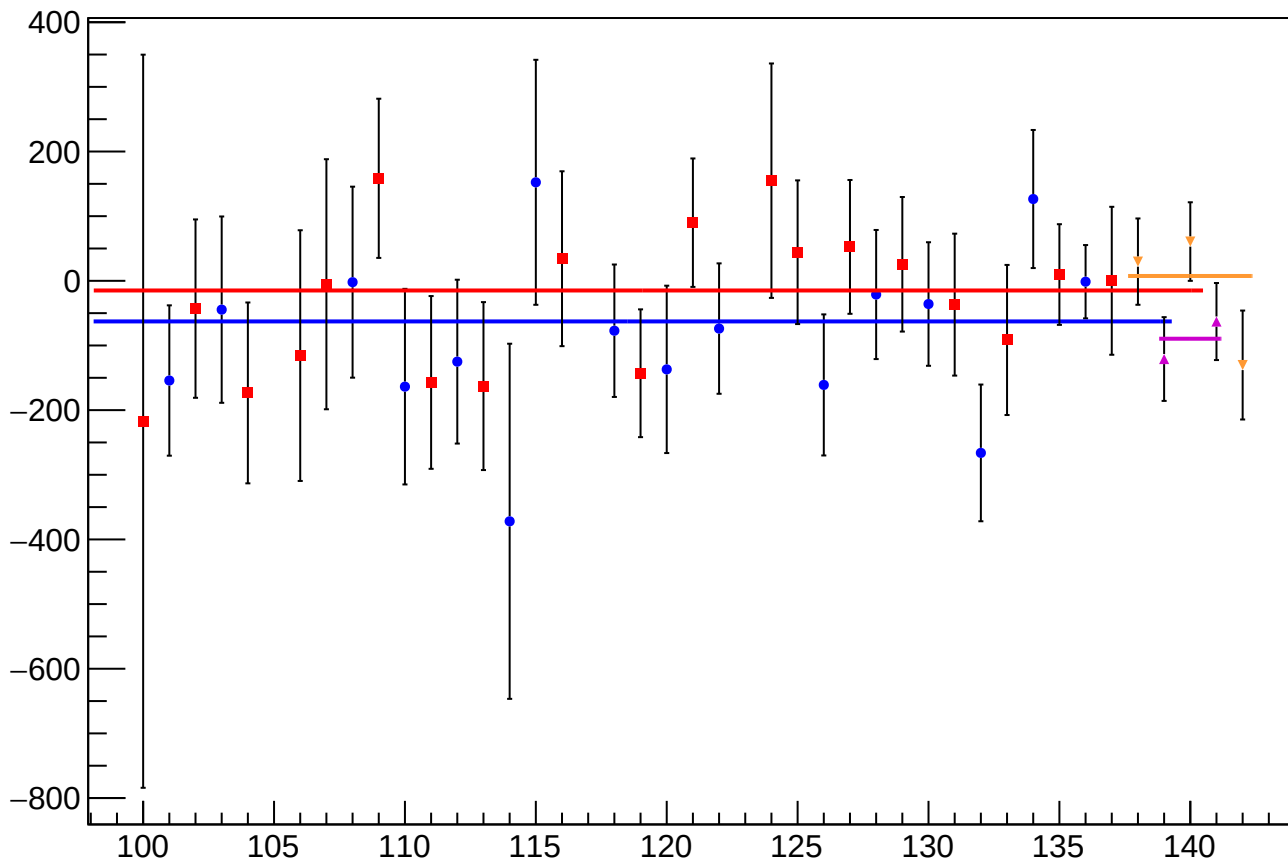
Right: 703.381+/-0.138 χ^2/NDF : 3163603.4/34

In: 552.811+/-0.141 χ^2/NDF :2587936.8/17

Out: 548.486+/-0.138 χ^2/NDF :3143407.4/21

All: 550.595+/-0.099 χ^2/NDF : 5731823.0/39

eigen_cor_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -62.789 ± 27.213 χ^2/NDF : 13.5/15

Left Out: 7.489 ± 39.649 χ^2/NDF : 3.6/2

Right Out: -14.932 ± 27.783 χ^2/NDF : 11.4/18

Left In: -89.557 ± 43.852 χ^2/NDF : 0.4/1

Left: -36.161 ± 29.410 χ^2/NDF : 6.7/4

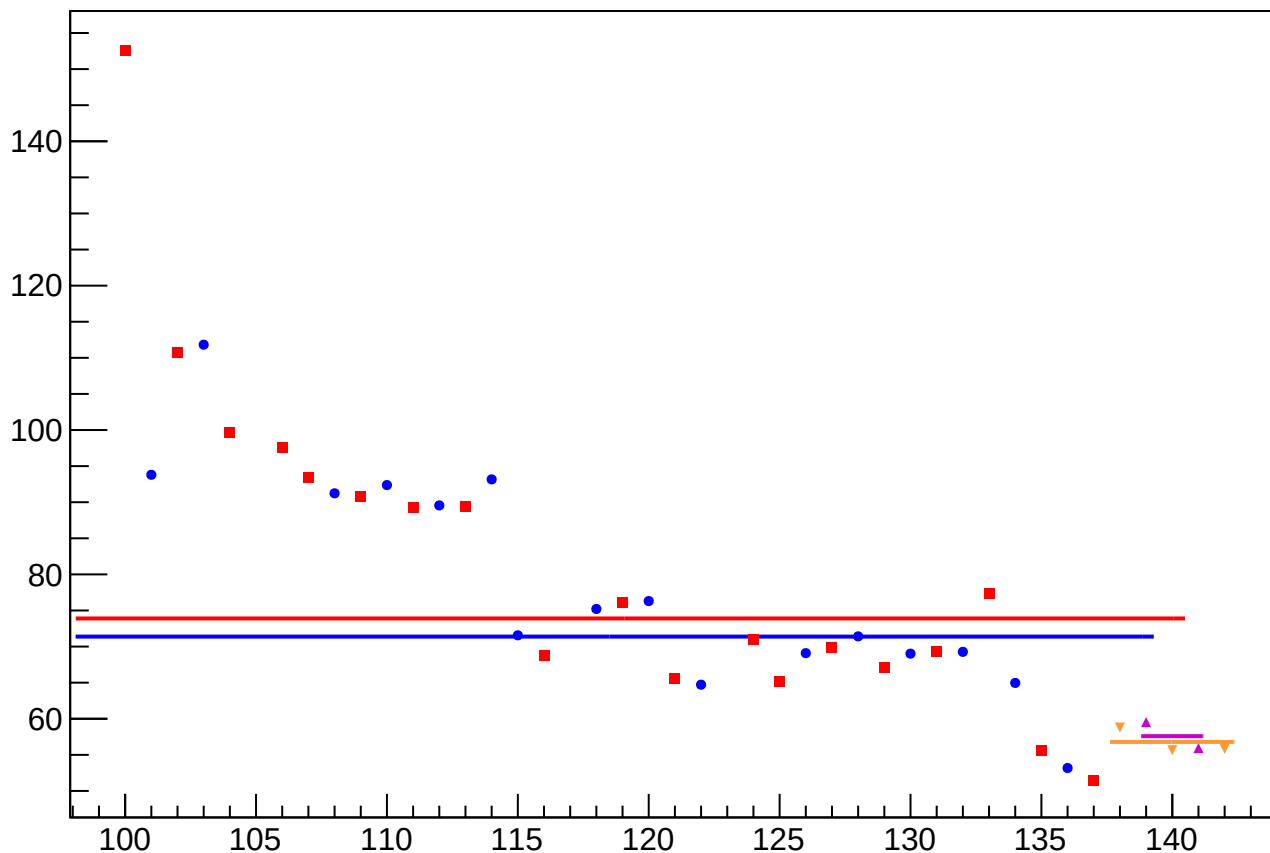
Right: -39.357 ± 19.441 χ^2/NDF : 26.4/34

In: -70.232 ± 23.123 χ^2/NDF : 14.2/17

Out: -7.548 ± 22.753 χ^2/NDF : 15.2/21

All: -38.385 ± 16.218 χ^2/NDF : 33.1/39

eigen_cor_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 71.383 $\pm$ 0.019 χ^2 /NDF: 590911.7/15

Left Out: 56.792 $\pm$ 0.028 χ^2 /NDF: 2747.8/2

Right Out: 73.894 $\pm$ 0.020 χ^2 /NDF: 627014.3/18

Left In: 57.592 $\pm$ 0.031 χ^2 /NDF: 3347.3/1

Left: 57.152 $\pm$ 0.021 χ^2 /NDF: 6460.7/4

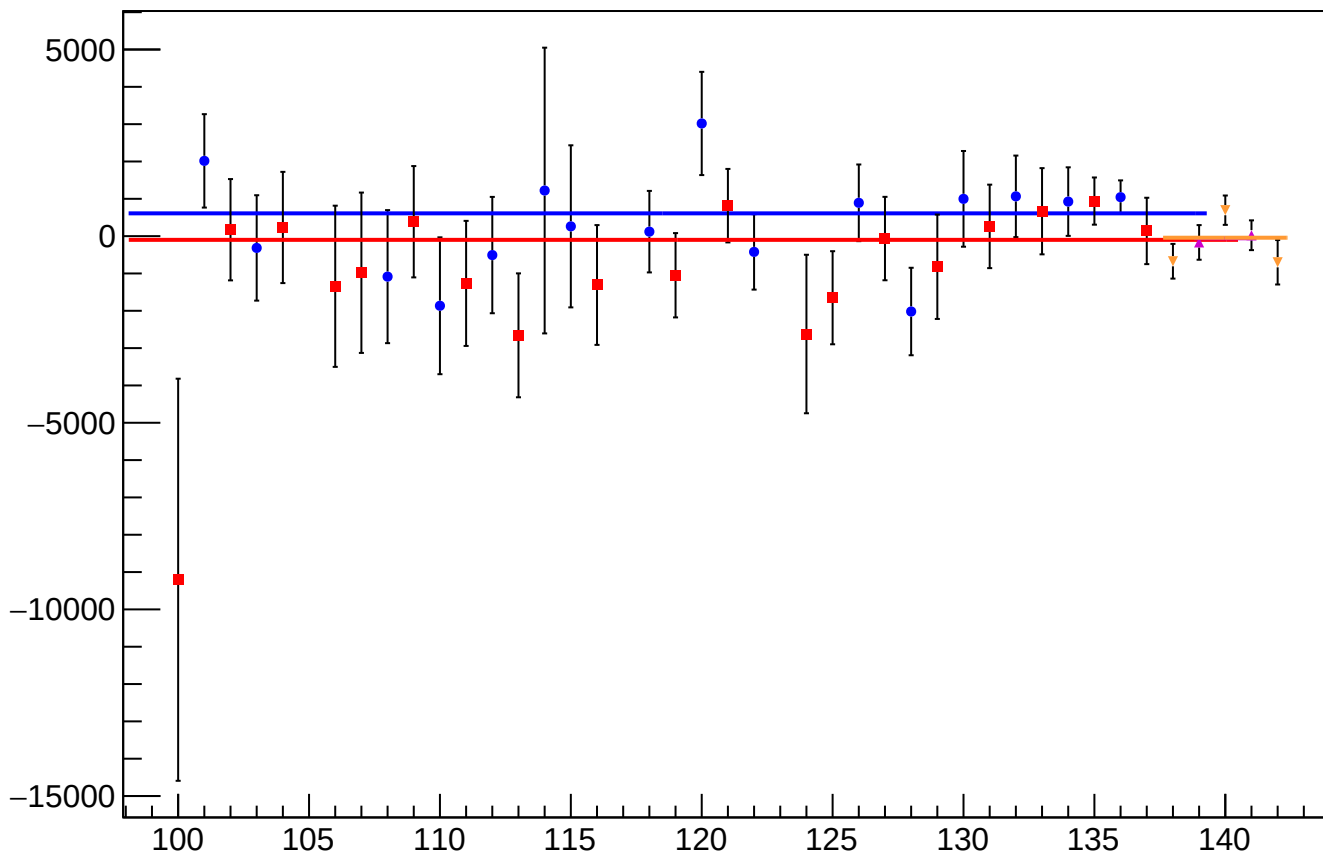
Right: 72.613 $\pm$ 0.014 χ^2 /NDF: 1226261.8/34

In: 67.549 $\pm$ 0.016 χ^2 /NDF: 737082.9/17

Out: 68.262 $\pm$ 0.016 χ^2 /NDF: 879314.5/21

All: 67.911 $\pm$ 0.011 χ^2 /NDF: 1617364.4/39

asym_sam_15_26_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 610.549 $\pm$ 266.803 χ^2 /NDF: 15.7/15

Left Out: -42.346 $\pm$ 268.077 χ^2 /NDF: 6.6/2

Right Out: -99.555 $\pm$ 284.831 χ^2 /NDF: 15.1/18

Left In: -57.568 $\pm$ 302.438 χ^2 /NDF: 0.1/1

Left: -49.043 $\pm$ 200.612 χ^2 /NDF: 6.7/4

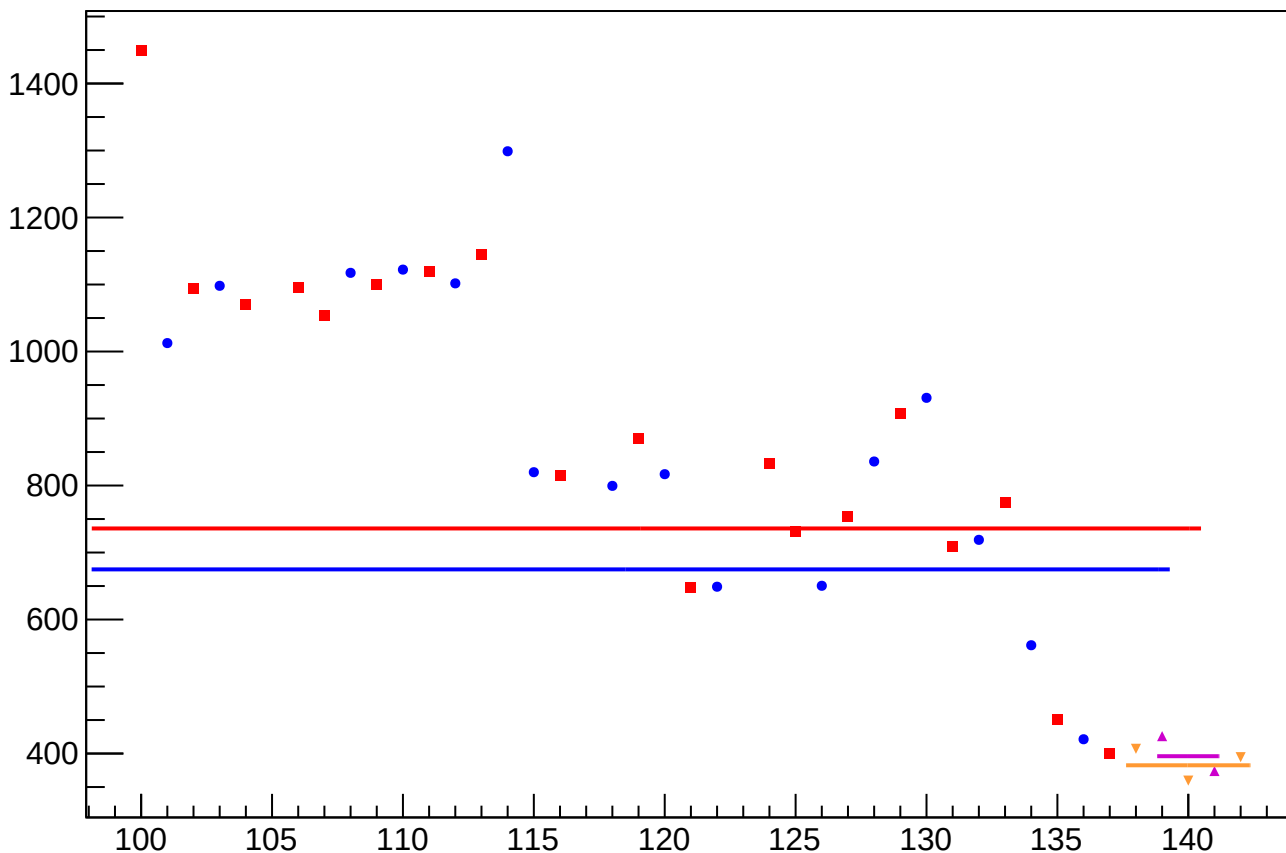
Right: 278.680 $\pm$ 194.720 χ^2 /NDF: 34.1/34

In: 318.153 $\pm$ 200.077 χ^2 /NDF: 18.5/17

Out: -69.219 $\pm$ 195.213 χ^2 /NDF: 21.7/21

All: 119.702 $\pm$ 139.724 χ^2 /NDF: 42.2/39

asym_sam_15_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 674.831+/-0.189 χ^2/NDF : 1617624.1/15

Left Out: 382.454+/-0.190 χ^2/NDF :13194.2/2

Right Out: 735.919+/-0.201 χ^2/NDF : 1496977.2/18

Left In: 396.019+/-0.214 χ^2/NDF :14462.0/1

Left: 388.423+/-0.142 χ^2/NDF : 29909.4/4

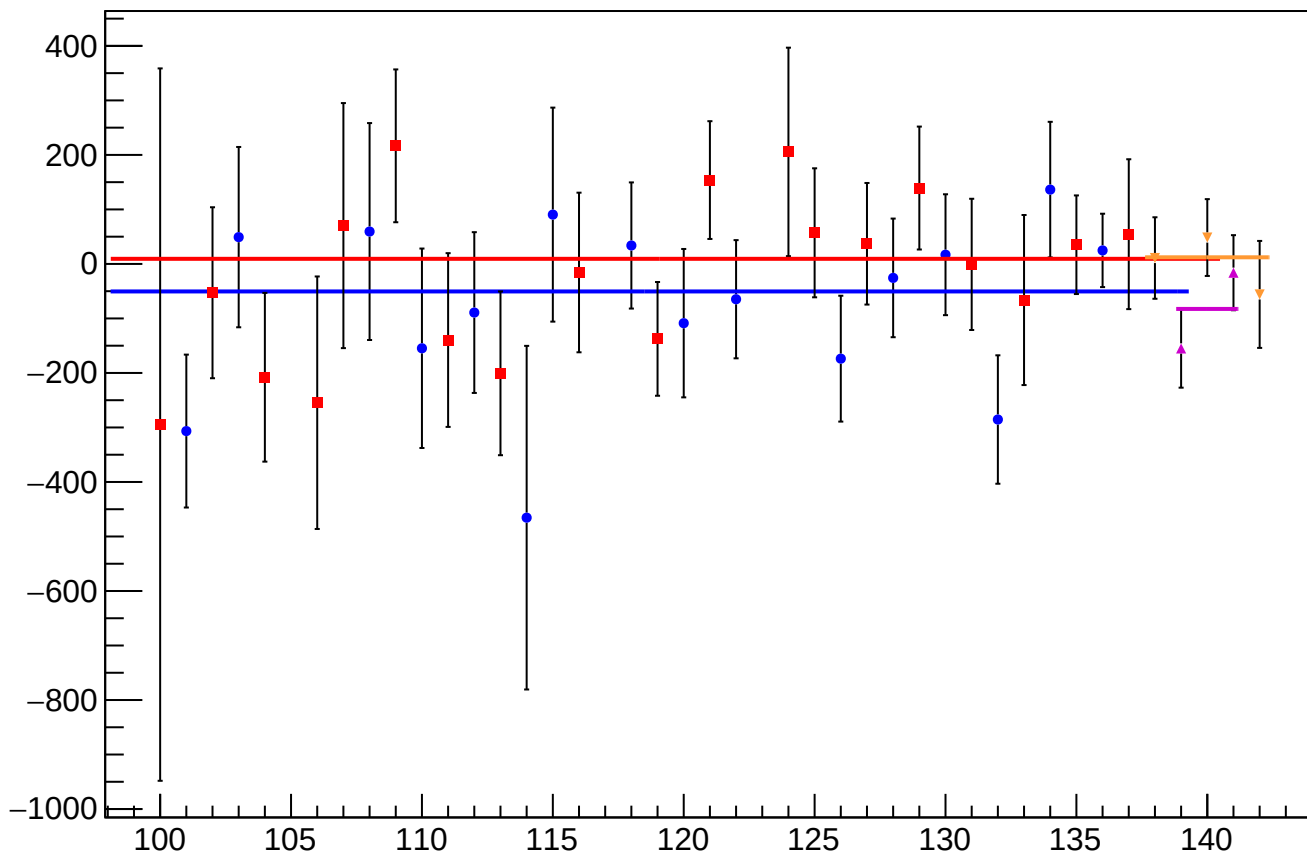
Right: 703.381+/-0.138 χ^2/NDF : 3163603.4/34

In: 552.811+/-0.141 χ^2/NDF :2587936.8/17

Out: 548.486+/-0.138 χ^2/NDF :3143407.4/21

All: 550.595+/-0.099 χ^2/NDF : 5731823.0/39

dit_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -50.465 $\pm$ 31.061 χ^2/NDF : 16.4/15

Left Out: 12.153 $\pm$ 45.444 χ^2/NDF : 0.7/2

Right Out: 9.380 $\pm$ 31.235 χ^2/NDF : 15.6/18

Left In: -82.547 $\pm$ 49.754 χ^2/NDF : 1.9/1

Left: -30.918 $\pm$ 33.554 χ^2/NDF : 4.7/4

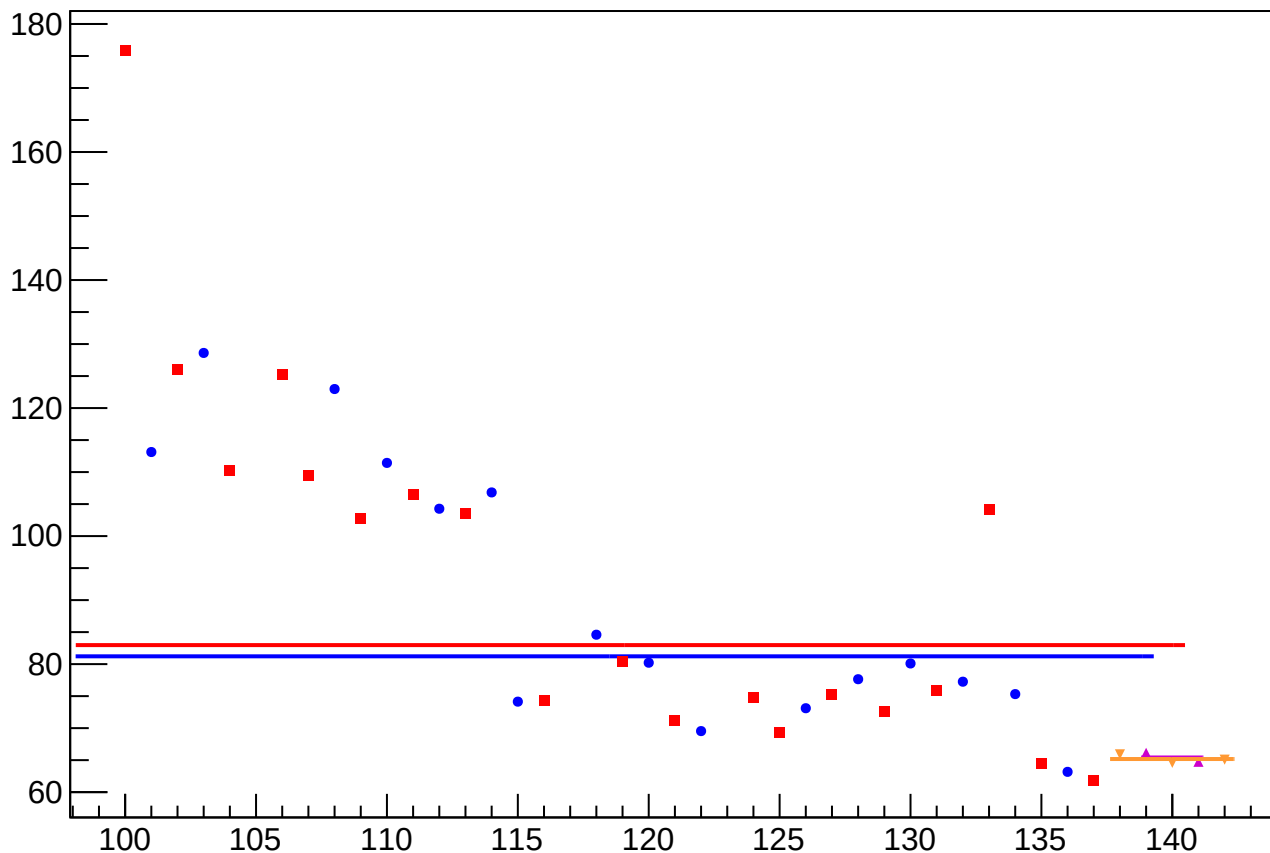
Right: -20.709 $\pm$ 22.025 χ^2/NDF : 33.8/34

In: -59.462 $\pm$ 26.348 χ^2/NDF : 18.7/17

Out: 10.270 $\pm$ 25.741 χ^2/NDF : 16.3/21

All: -23.783 $\pm$ 18.412 χ^2/NDF : 38.6/39

dit_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 81.218 $\pm$ 0.022 χ^2 /NDF: 662873.6/15

Left Out: 65.174 $\pm$ 0.032 χ^2 /NDF:338.0/2

Right Out: 82.971 $\pm$ 0.022 χ^2 /NDF: 730384.9/18

Left In: 65.414 $\pm$ 0.035 χ^2 /NDF:396.7/1

Left: 65.283 $\pm$ 0.024 χ^2 /NDF: 760.0/4

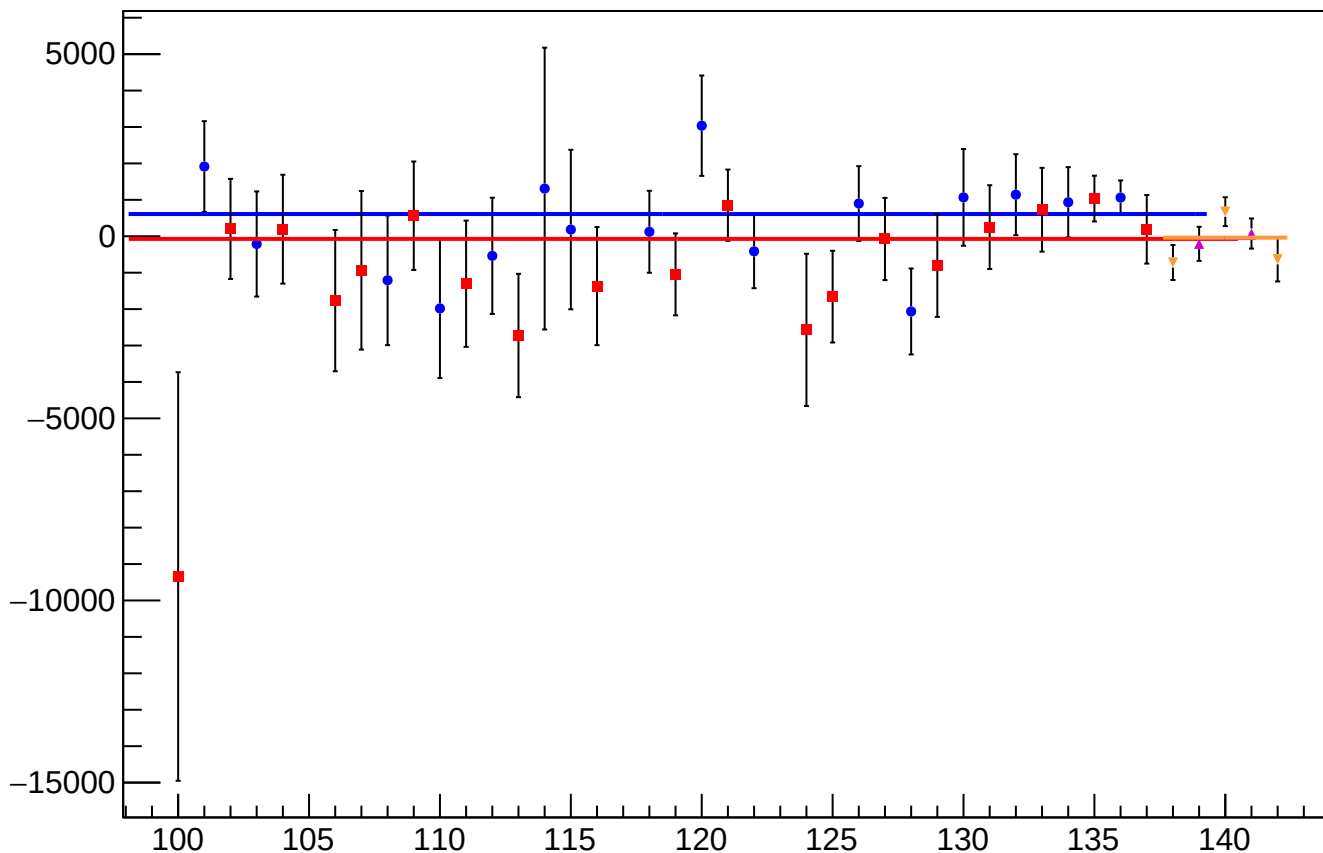
Right: 82.090 $\pm$ 0.016 χ^2 /NDF: 1396425.1/34

In: 76.786 $\pm$ 0.019 χ^2 /NDF:808467.5/17

Out: 77.261 $\pm$ 0.018 χ^2 /NDF:939038.7/21

All: 77.029 $\pm$ 0.013 χ^2 /NDF: 1747838.8/39

asym_sam_15_26_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 610.383 $\pm$ 273.982 χ^2 /NDF: 15.8/15

Left Out: -38.365 $\pm$ 273.175 χ^2 /NDF: 6.2/2

Right Out: -72.311 $\pm$ 286.830 χ^2 /NDF: 16.2/18

Left In: -49.435 $\pm$ 309.703 χ^2 /NDF: 0.2/1

Left: -43.209 $\pm$ 204.867 χ^2 /NDF: 6.4/4

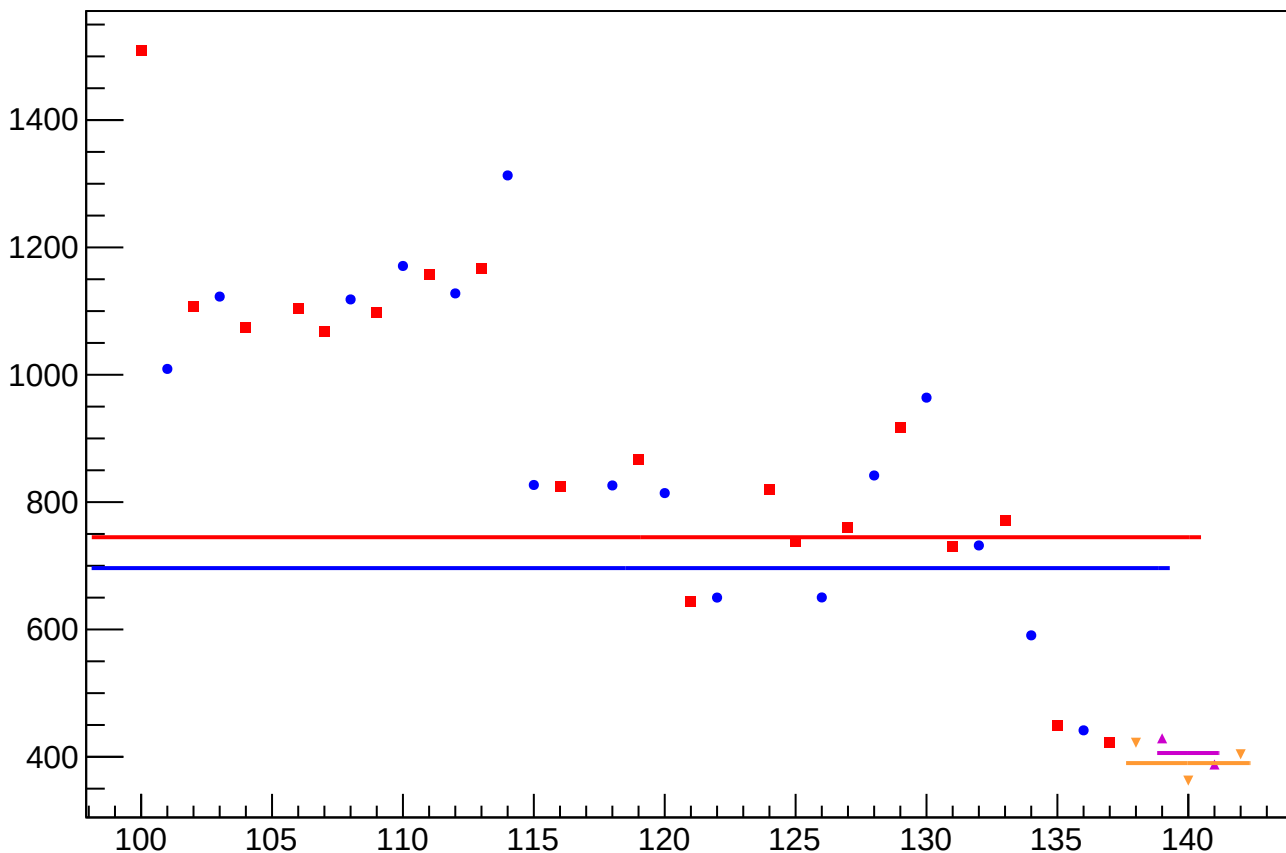
Right: 284.669 $\pm$ 198.121 χ^2 /NDF: 34.9/34

In: 320.704 $\pm$ 205.207 χ^2 /NDF: 18.5/17

Out: -54.511 $\pm$ 197.815 χ^2 /NDF: 22.4/21

All: 126.217 $\pm$ 142.418 χ^2 /NDF: 42.7/39

asym_sam_15_26_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 696.371+/-0.194 χ^2/NDF : 1515478.0/15

Left Out: 390.152+/-0.193 χ^2/NDF :19534.8/2

Right Out: 744.875+/-0.203 χ^2/NDF : 1498361.7/18

Left In: 405.968+/-0.219 χ^2/NDF :8673.8/1

Left: 397.073+/-0.145 χ^2/NDF : 31142.2/4

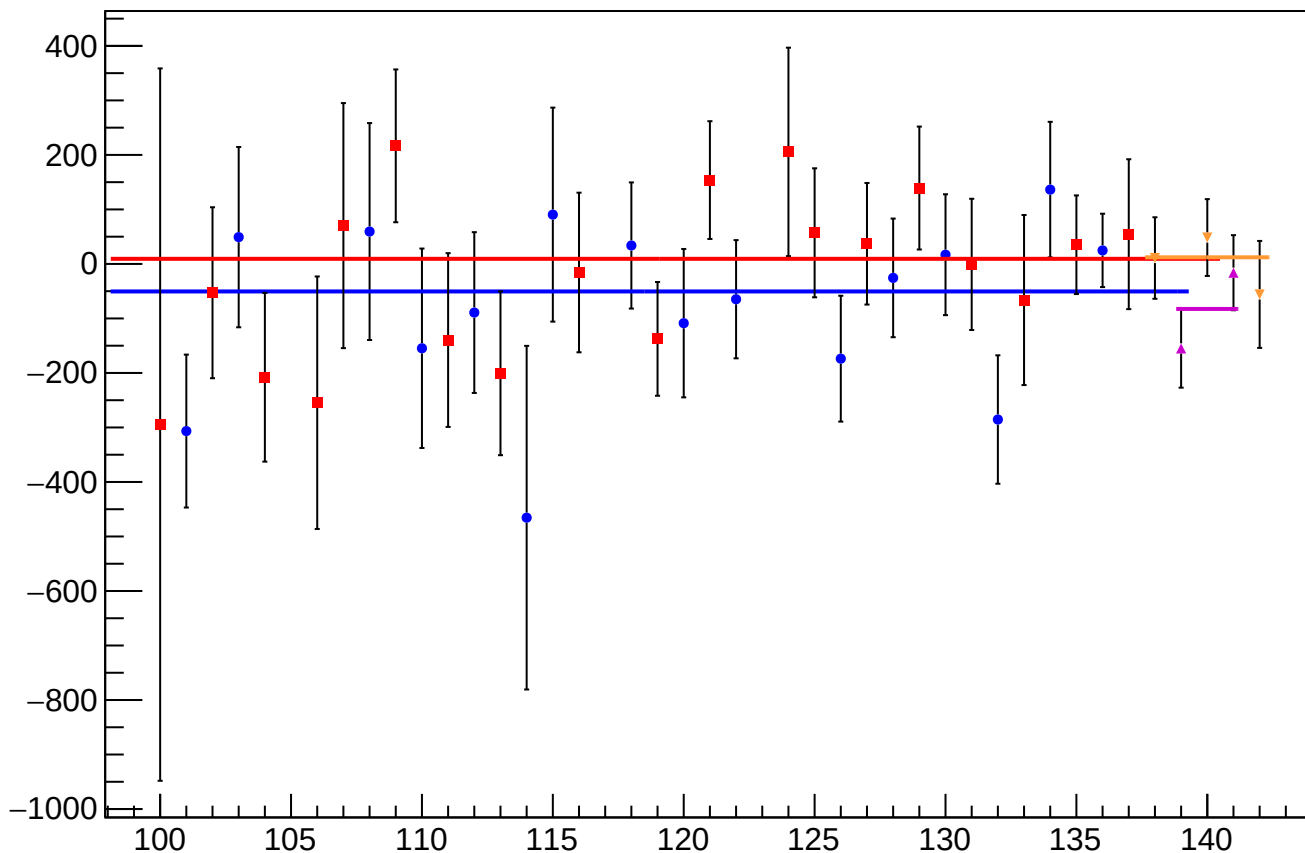
Right: 719.512+/-0.140 χ^2/NDF : 3043745.4/34

In: 568.876+/-0.145 χ^2/NDF :2510614.0/17

Out: 558.869+/-0.140 χ^2/NDF :3121861.6/21

All: 563.689+/-0.101 χ^2/NDF : 5634940.6/39

eigen_dit_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -50.466 $\pm$ 31.061 χ^2/NDF : 16.4/15

Left Out: 12.154 $\pm$ 45.444 χ^2/NDF : 0.7/2

Right Out: 9.381 $\pm$ 31.235 χ^2/NDF : 15.6/18

Left In: -82.546 $\pm$ 49.754 χ^2/NDF : 1.9/1

Left: -30.917 $\pm$ 33.554 χ^2/NDF : 4.7/4

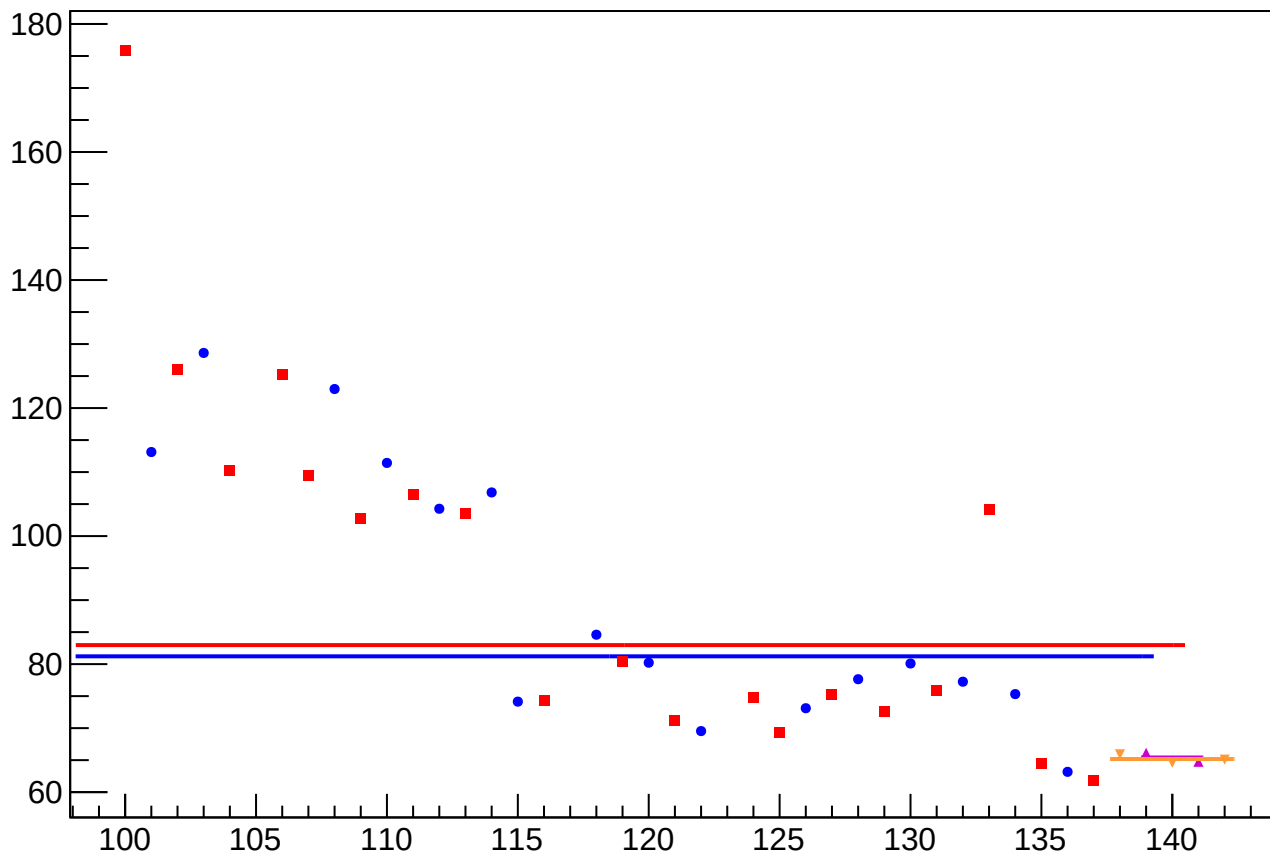
Right: -20.709 $\pm$ 22.025 χ^2/NDF : 33.8/34

In: -59.462 $\pm$ 26.348 χ^2/NDF : 18.7/17

Out: 10.271 $\pm$ 25.741 χ^2/NDF : 16.3/21

All: -23.783 $\pm$ 18.412 χ^2/NDF : 38.6/39

eigen_dit_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 81.218+/-0.022 χ^2/NDF : 662862.1/15

Left Out: 65.175+/-0.032 χ^2/NDF : 337.9/2

Right Out: 82.971+/-0.022 χ^2/NDF : 730375.6/18

Left In: 65.415+/-0.035 χ^2/NDF : 396.4/1

Left: 65.284+/-0.024 χ^2/NDF : 759.7/4

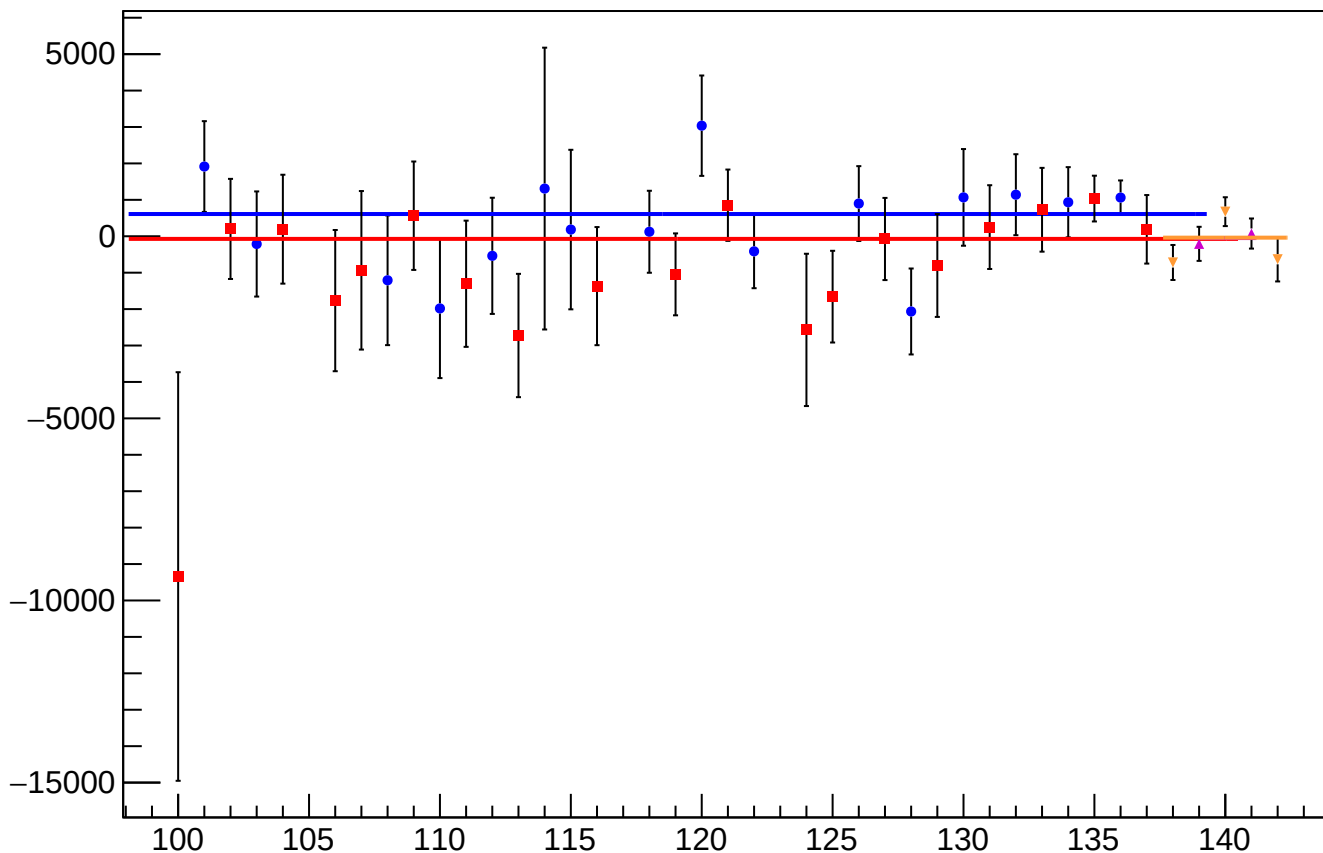
Right: 82.089+/-0.016 χ^2/NDF : 1396405.1/34

In: 76.786+/-0.019 χ^2/NDF : 808438.6/17

Out: 77.261+/-0.018 χ^2/NDF : 939017.1/21

All: 77.029+/-0.013 χ^2/NDF : 1747788.4/39

asym_sam_15_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 610.382 $\pm$ 273.981 χ^2 /NDF: 15.8/15

Left Out: -38.367 $\pm$ 273.176 χ^2 /NDF: 6.2/2

Right Out: -72.313 $\pm$ 286.830 χ^2 /NDF: 16.2/18

Left In: -49.434 $\pm$ 309.703 χ^2 /NDF: 0.2/1

Left: -43.209 $\pm$ 204.868 χ^2 /NDF: 6.4/4

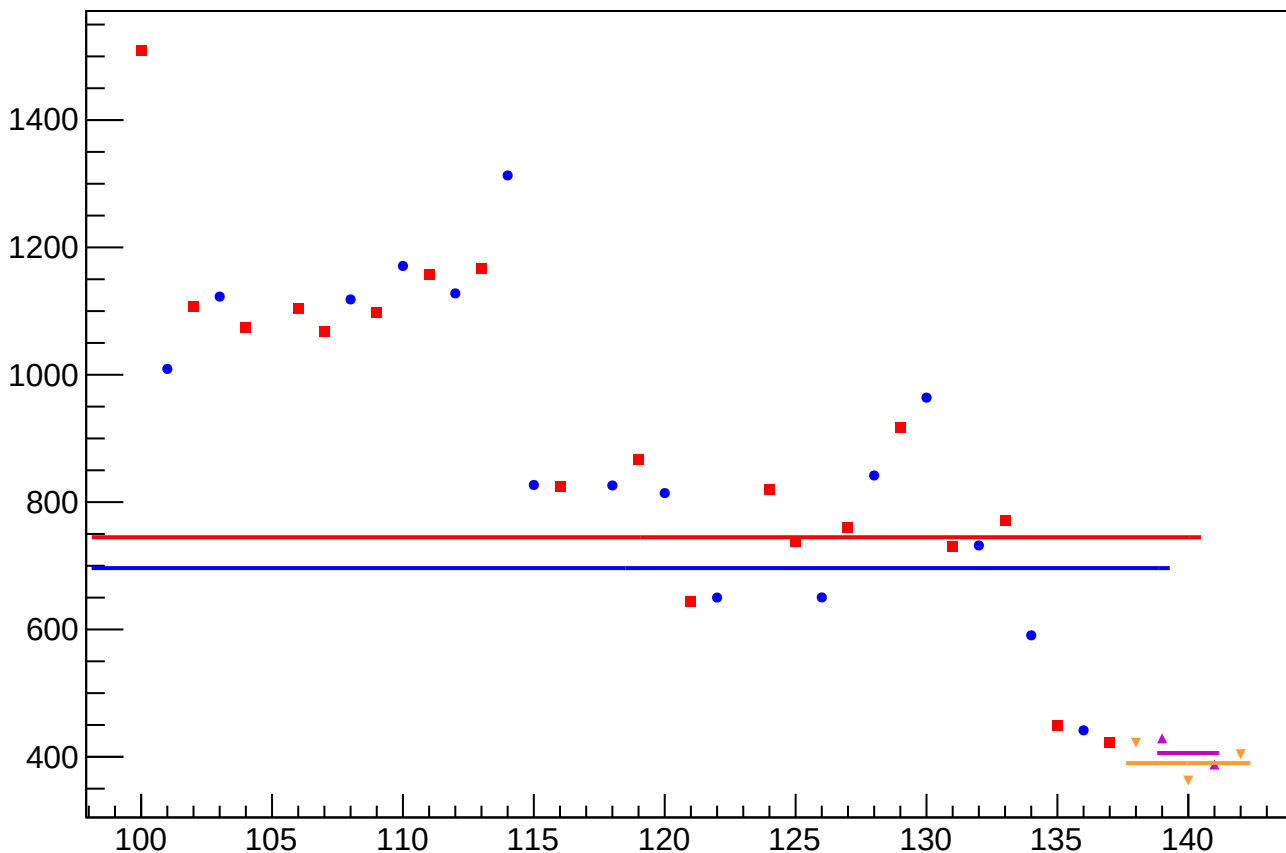
Right: 284.667 $\pm$ 198.121 χ^2 /NDF: 34.9/34

In: 320.705 $\pm$ 205.207 χ^2 /NDF: 18.5/17

Out: -54.512 $\pm$ 197.815 χ^2 /NDF: 22.4/21

All: 126.217 $\pm$ 142.418 χ^2 /NDF: 42.7/39

asym_sam_15_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 696.370+/-0.194 χ^2/NDF : 1515461.8/15

Left Out: 390.153+/-0.193 χ^2/NDF :19533.7/2

Right Out: 744.874+/-0.203 χ^2/NDF : 1498349.6/18

Left In: 405.969+/-0.219 χ^2/NDF :8672.5/1

Left: 397.074+/-0.145 χ^2/NDF : 31139.5/4

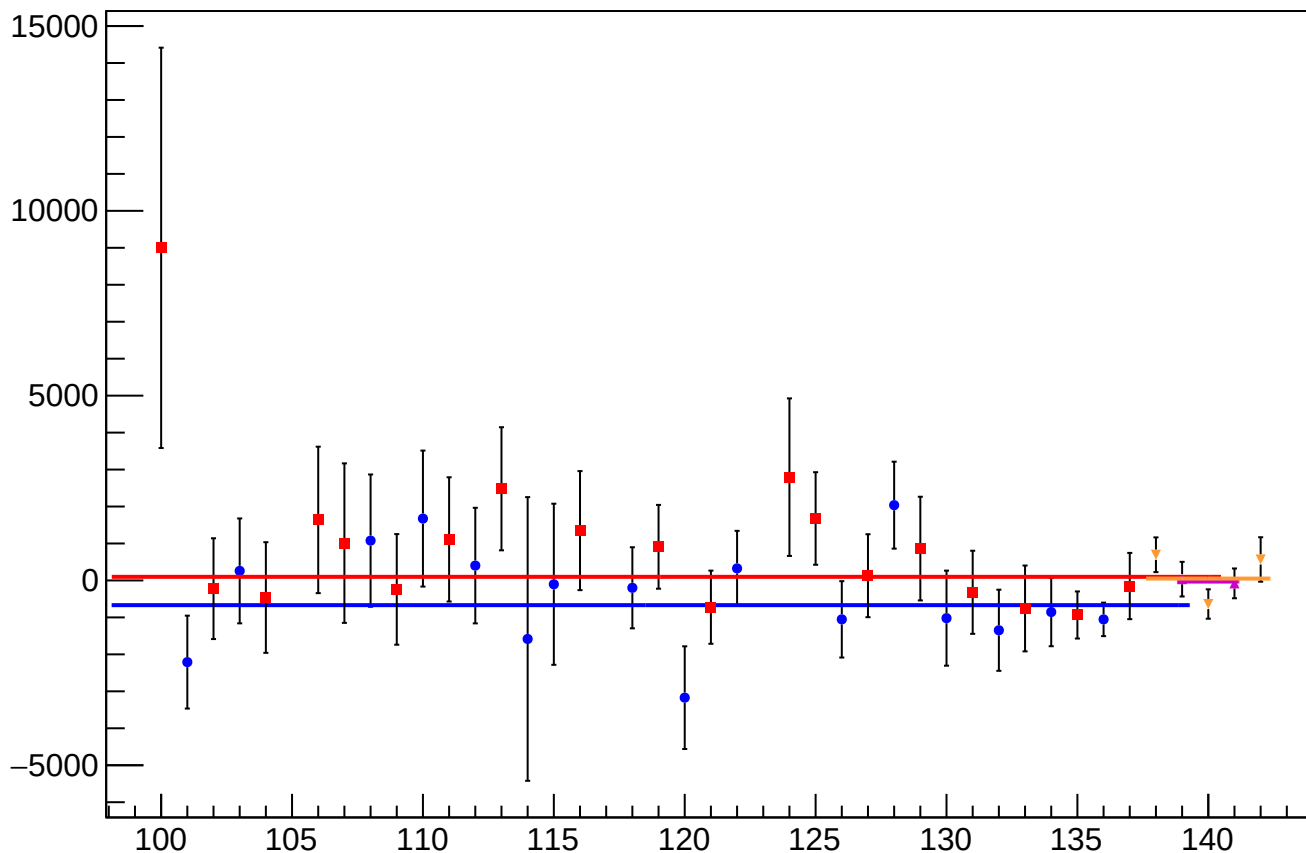
Right: 719.511+/-0.140 χ^2/NDF : 3043716.8/34

In: 568.876+/-0.145 χ^2/NDF :2510587.6/17

Out: 558.870+/-0.140 χ^2/NDF :3121828.5/21

All: 563.690+/-0.101 χ^2/NDF : 5634880.7/39

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -668.503+/-268.452 χ^2/NDF : 16.1/15

Left Out: 50.676+/-271.042 χ^2/NDF : 5.6/2

Right Out: 98.003+/-285.882 χ^2/NDF : 14.8/18

Left In: -30.704+/-305.640 χ^2/NDF : 0.0/1

Left: 14.851+/-202.789 χ^2/NDF : 5.7/4

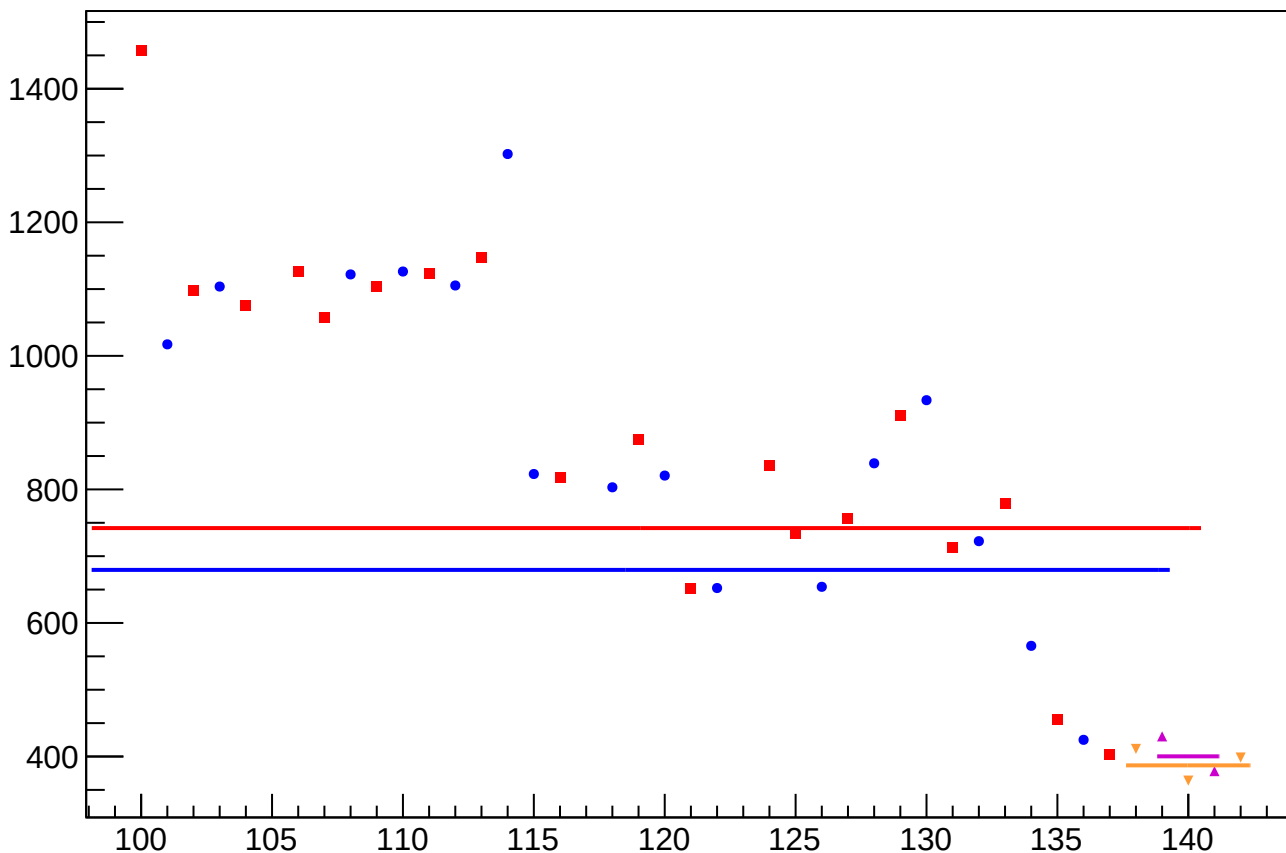
Right: -309.326+/-195.696 χ^2/NDF : 34.8/34

In: -390.745+/-201.698 χ^2/NDF : 18.6/17

Out: 73.079+/-196.692 χ^2/NDF : 20.4/21

All: -153.006+/-140.819 χ^2/NDF : 41.8/39

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 679.469+/-0.190 χ^2/NDF : 1600922.1/15

Left Out: 386.734+/-0.192 χ^2/NDF : 12853.5/2

Right Out: 742.081+/-0.202 χ^2/NDF : 1504391.2/18

Left In: 400.249+/-0.216 χ^2/NDF : 14162.2/1

Left: 392.684+/-0.143 χ^2/NDF : 29204.8/4

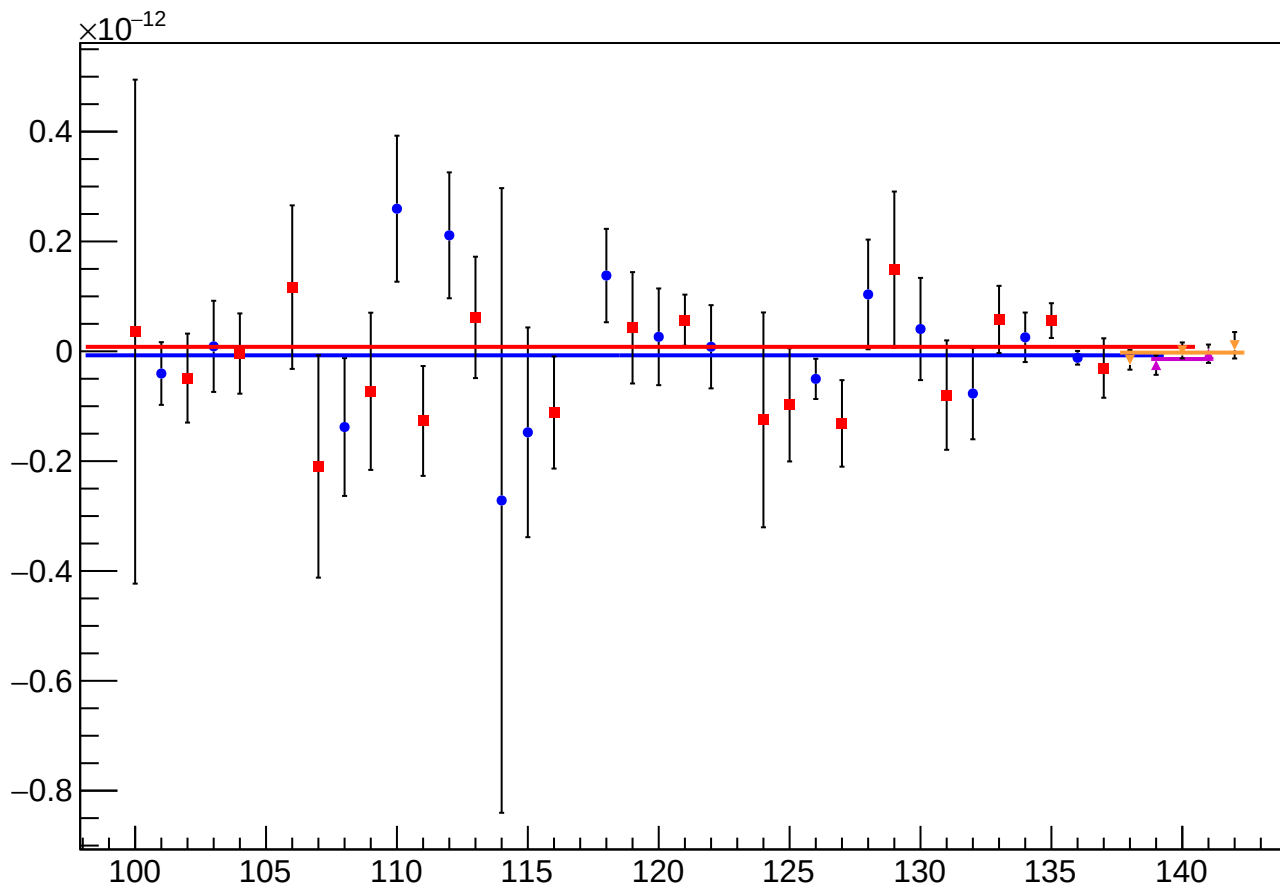
Right: 708.808+/-0.138 χ^2/NDF : 3156293.3/34

In: 557.870+/-0.143 χ^2/NDF : 2557344.1/17

Out: 554.945+/-0.139 χ^2/NDF : 3144537.5/21

All: 556.371+/-0.100 χ^2/NDF : 5702097.1/39

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 17.2/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 17.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.7/1

Left: -0.000+/-0.000 χ^2/NDF : 2.2/4

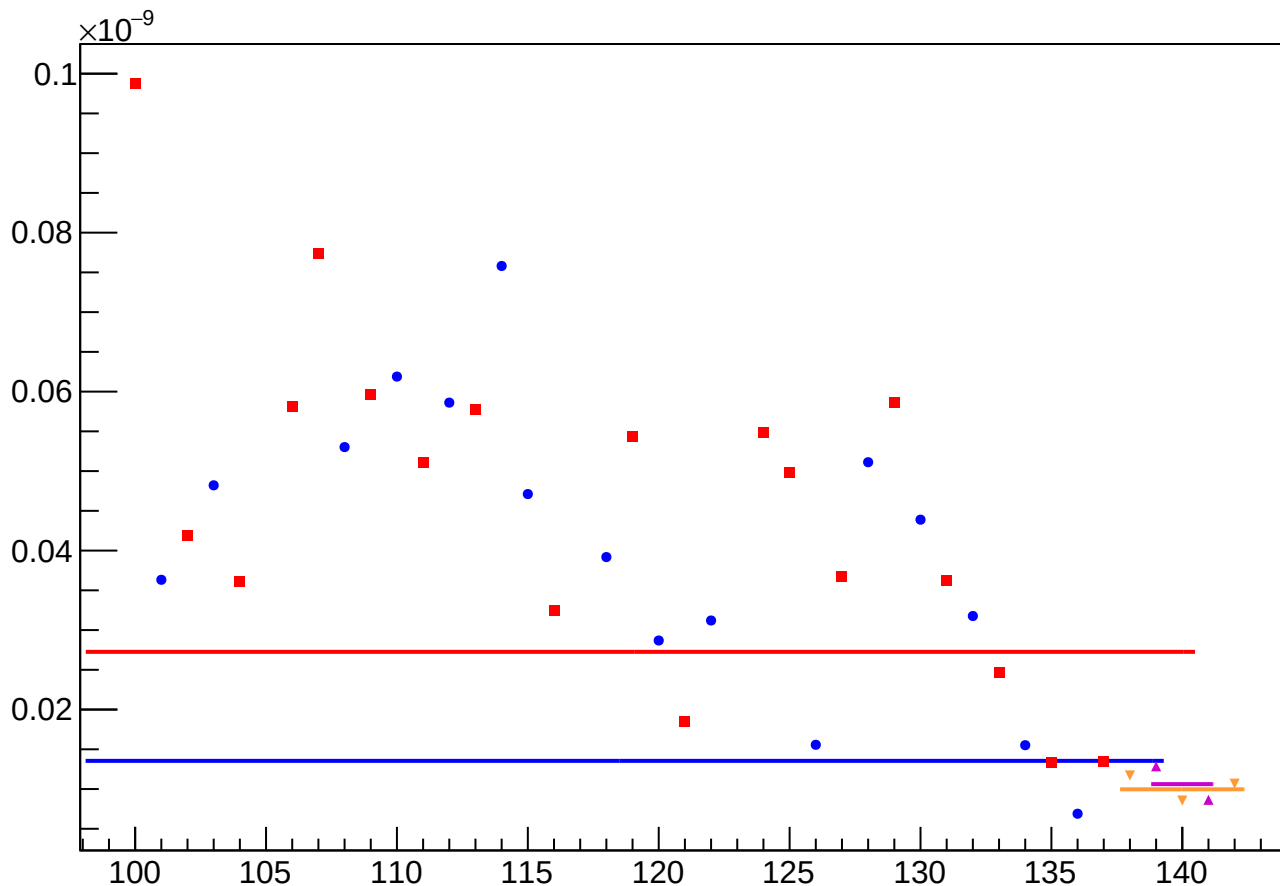
Right: -0.000+/-0.000 χ^2/NDF : 34.8/34

In: -0.000+/-0.000 χ^2/NDF : 18.1/17

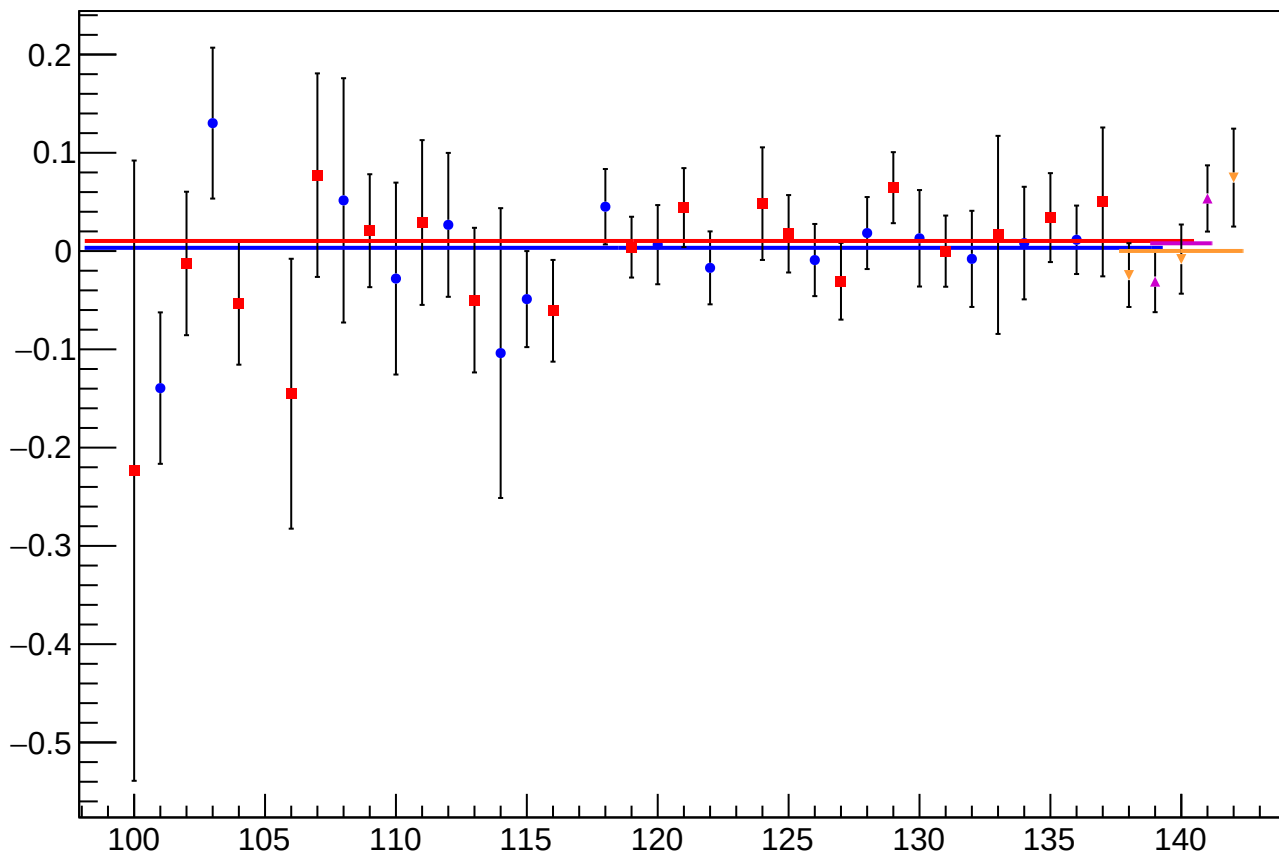
Out: 0.000+/-0.000 χ^2/NDF : 18.2/21

All: -0.000+/-0.000 χ^2/NDF : 37.1/39

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



asym_sam_15_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.012 χ^2 /NDF: 10.1/15

Left Out: 0.000 $\pm$ 0.022 χ^2 /NDF:2.9/2

Right Out: 0.010 $\pm$ 0.012 χ^2 /NDF: 11.2/18

Left In: 0.008 $\pm$ 0.023 χ^2 /NDF:3.4/1

Left: 0.004 $\pm$ 0.016 χ^2 /NDF: 6.3/4

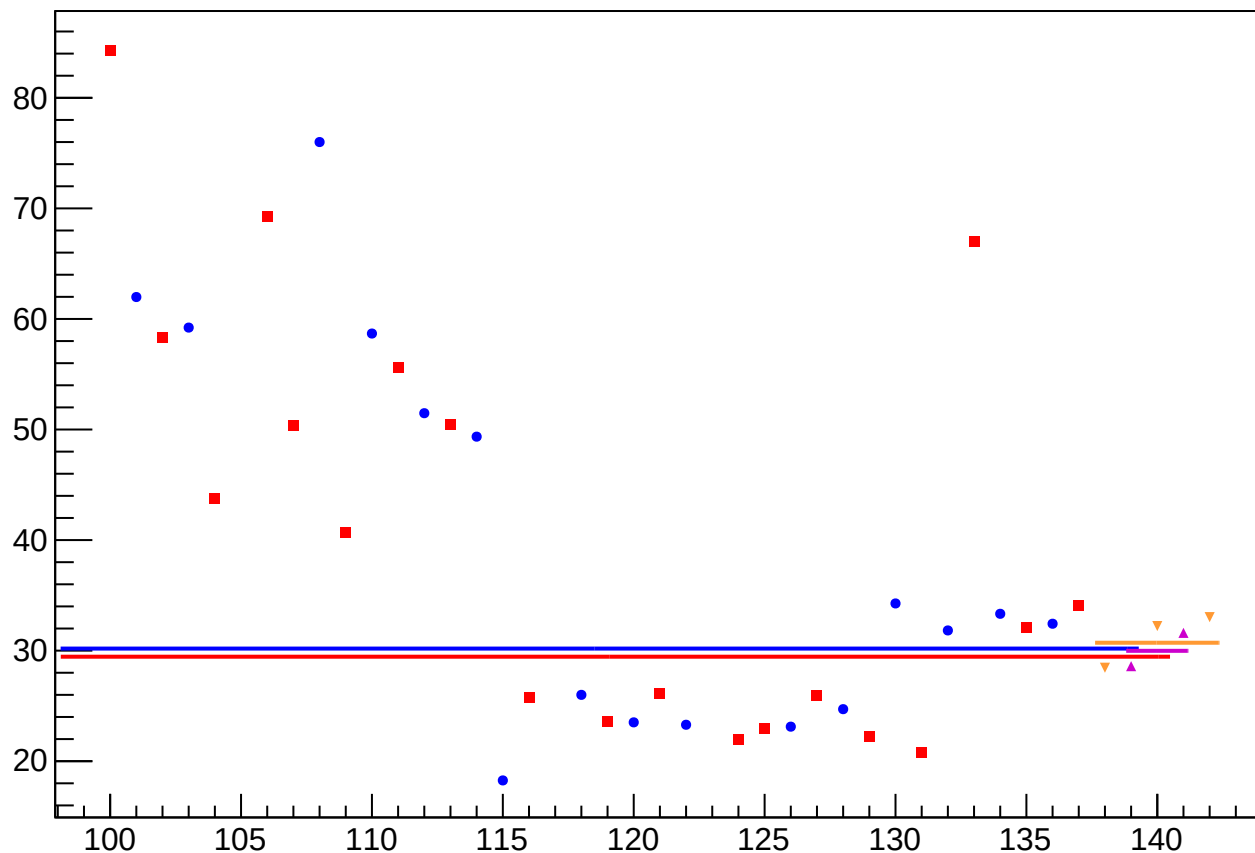
Right: 0.007 $\pm$ 0.009 χ^2 /NDF: 21.5/34

In: 0.004 $\pm$ 0.011 χ^2 /NDF:13.5/17

Out: 0.008 $\pm$ 0.010 χ^2 /NDF:14.3/21

All: 0.006 $\pm$ 0.007 χ^2 /NDF: 27.9/39

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 30.187+/-0.009 χ^2/NDF : 1687373.5/15

Left Out: 30.715+/-0.015 χ^2/NDF :17709.6/2

Right Out: 29.451+/-0.008 χ^2/NDF : 1848636.5/18

Left In: 29.983+/-0.016 χ^2/NDF :8620.5/1

Left: 30.371+/-0.011 χ^2/NDF : 27416.2/4

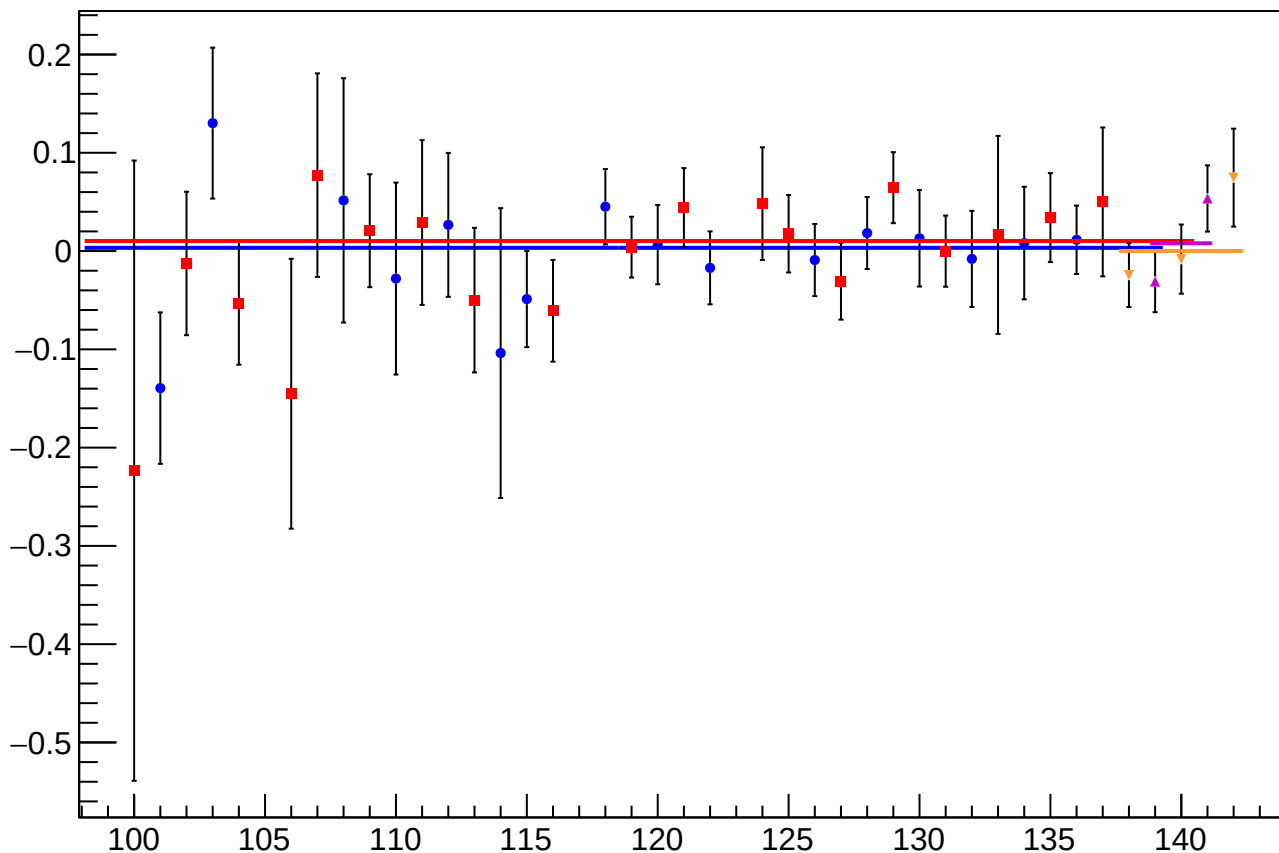
Right: 29.805+/-0.006 χ^2/NDF : 3539732.7/34

In: 30.141+/-0.008 χ^2/NDF :1696117.1/17

Out: 29.744+/-0.007 χ^2/NDF :1871644.6/21

All: 29.934+/-0.005 χ^2/NDF : 3569166.1/39

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.012 χ^2 /NDF: 10.1/15

Left Out: 0.000 $\pm$ 0.022 χ^2 /NDF:2.9/2

Right Out: 0.010 $\pm$ 0.012 χ^2 /NDF: 11.2/18

Left In: 0.008 $\pm$ 0.023 χ^2 /NDF:3.4/1

Left: 0.004 $\pm$ 0.016 χ^2 /NDF: 6.3/4

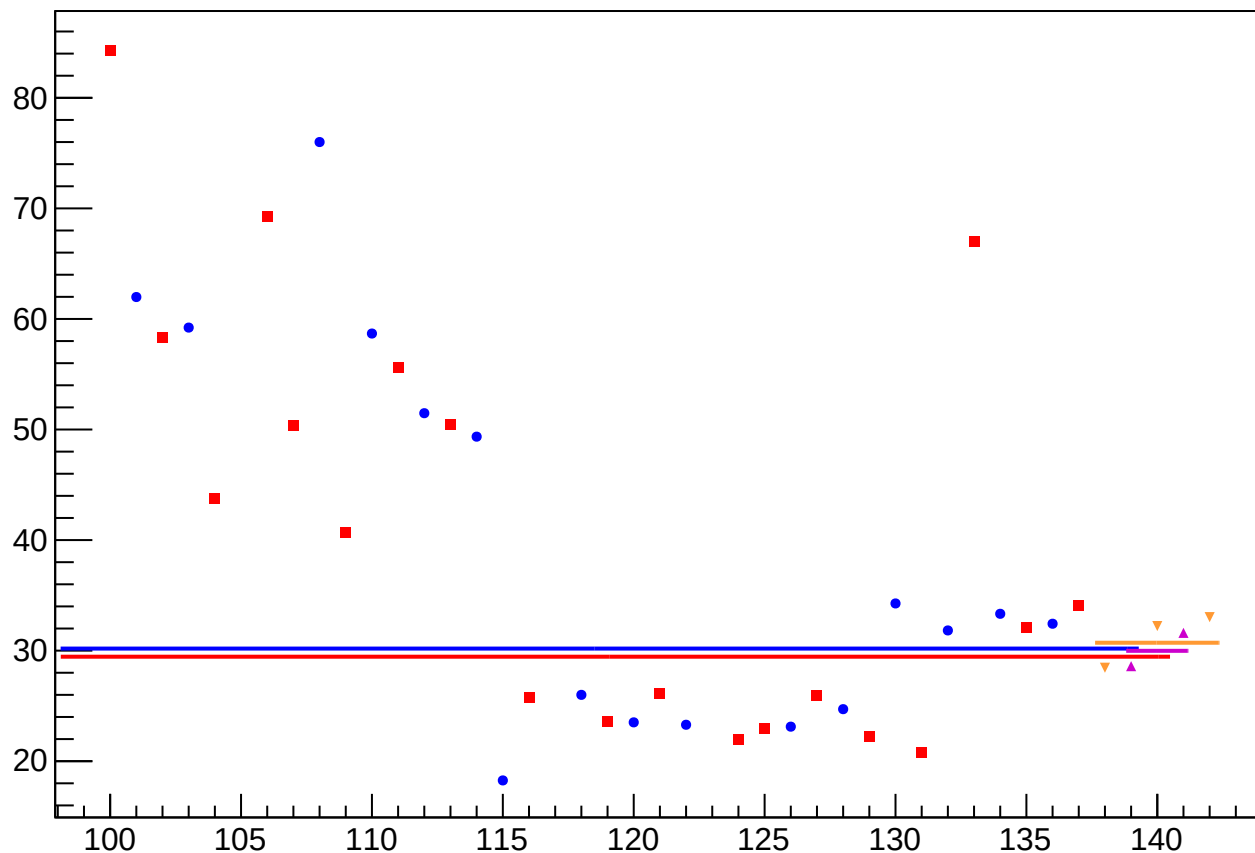
Right: 0.007 $\pm$ 0.009 χ^2 /NDF: 21.5/34

In: 0.004 $\pm$ 0.011 χ^2 /NDF:13.5/17

Out: 0.008 $\pm$ 0.010 χ^2 /NDF:14.3/21

All: 0.006 $\pm$ 0.007 χ^2 /NDF: 27.9/39

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 30.187+/-0.009 χ^2/NDF : 1687373.5/15

Left Out: 30.715+/-0.015 χ^2/NDF :17709.6/2

Right Out: 29.451+/-0.008 χ^2/NDF : 1848636.5/18

Left In: 29.983+/-0.016 χ^2/NDF :8620.5/1

Left: 30.371+/-0.011 χ^2/NDF : 27416.2/4

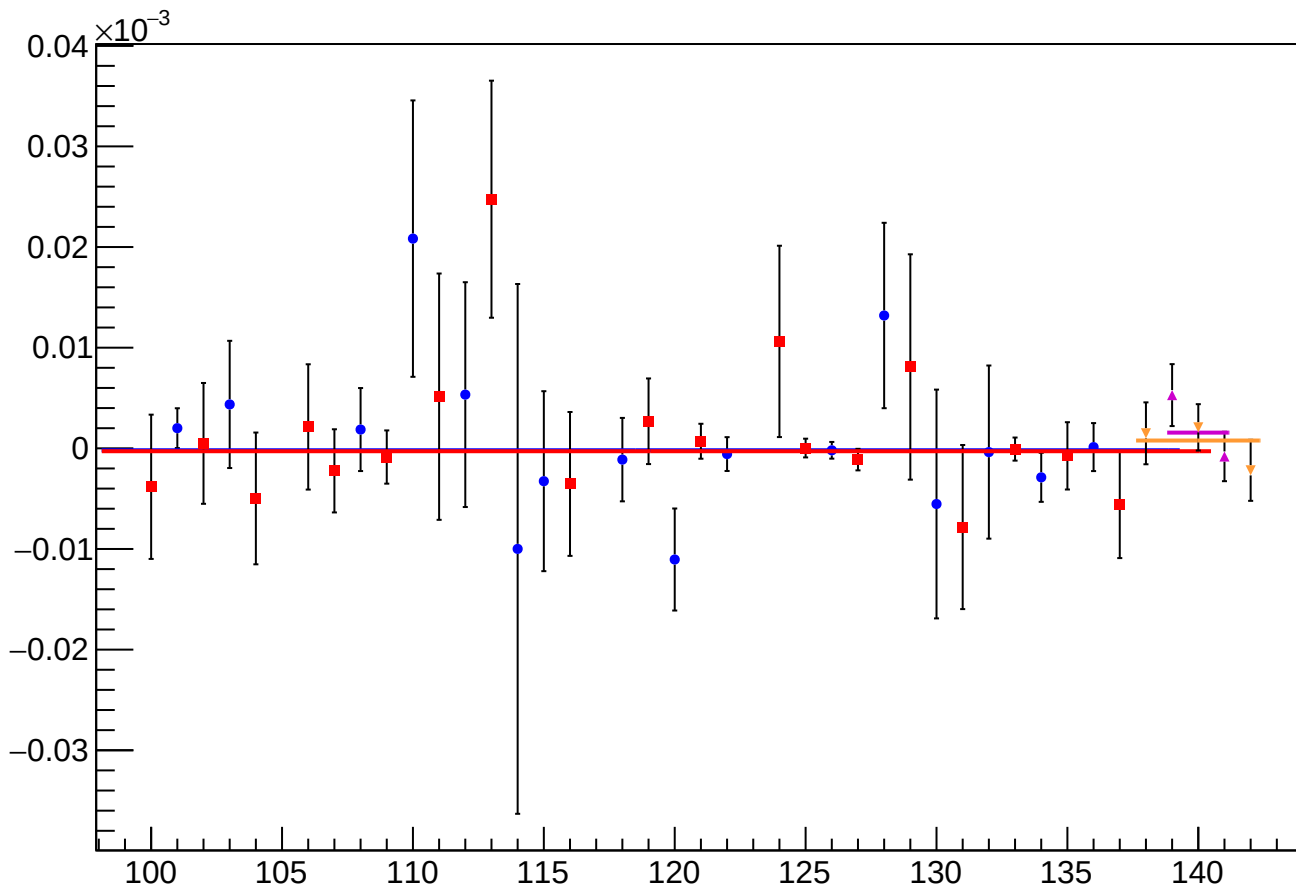
Right: 29.805+/-0.006 χ^2/NDF : 3539732.7/34

In: 30.141+/-0.008 χ^2/NDF :1696117.1/17

Out: 29.744+/-0.007 χ^2/NDF :1871644.6/21

All: 29.934+/-0.005 χ^2/NDF : 3569166.1/39

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 13.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1.3/2

Right Out: -0.000+/-0.000 χ^2/NDF : 11.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 2.4/1

Left: 0.000+/-0.000 χ^2/NDF : 3.8/4

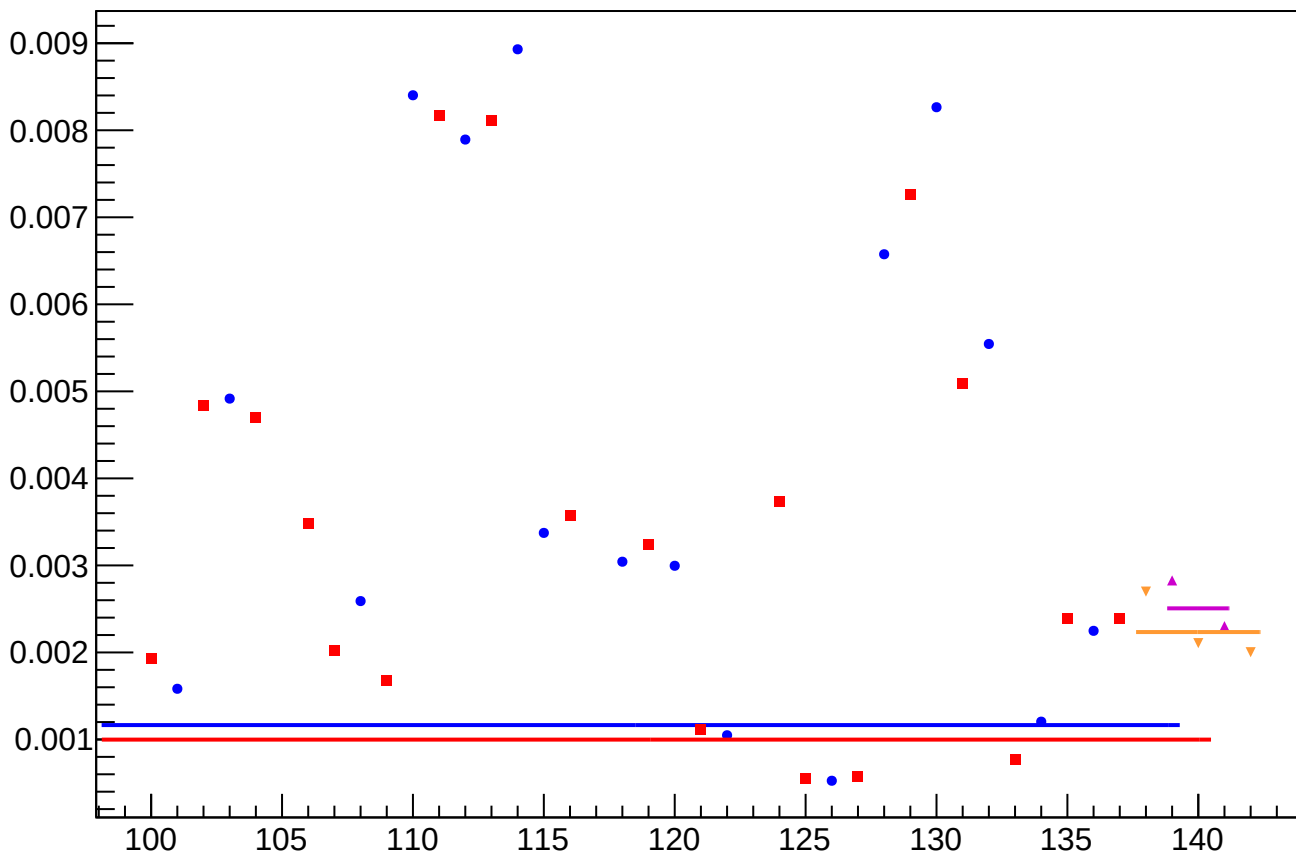
Right: -0.000+/-0.000 χ^2/NDF : 24.6/34

In: -0.000+/-0.000 χ^2/NDF : 16.3/17

Out: -0.000+/-0.000 χ^2/NDF : 13.2/21

All: -0.000+/-0.000 χ^2/NDF : 29.5/39

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 6881775.6/15

Left Out: 0.002+/-0.000 χ^2/NDF : 63456.3/2

Right Out: 0.001+/-0.000 χ^2/NDF : 6937197.5/18

Left In: 0.003+/-0.000 χ^2/NDF : 35626.7/1

Left: 0.002+/-0.000 χ^2/NDF : 123139.3/4

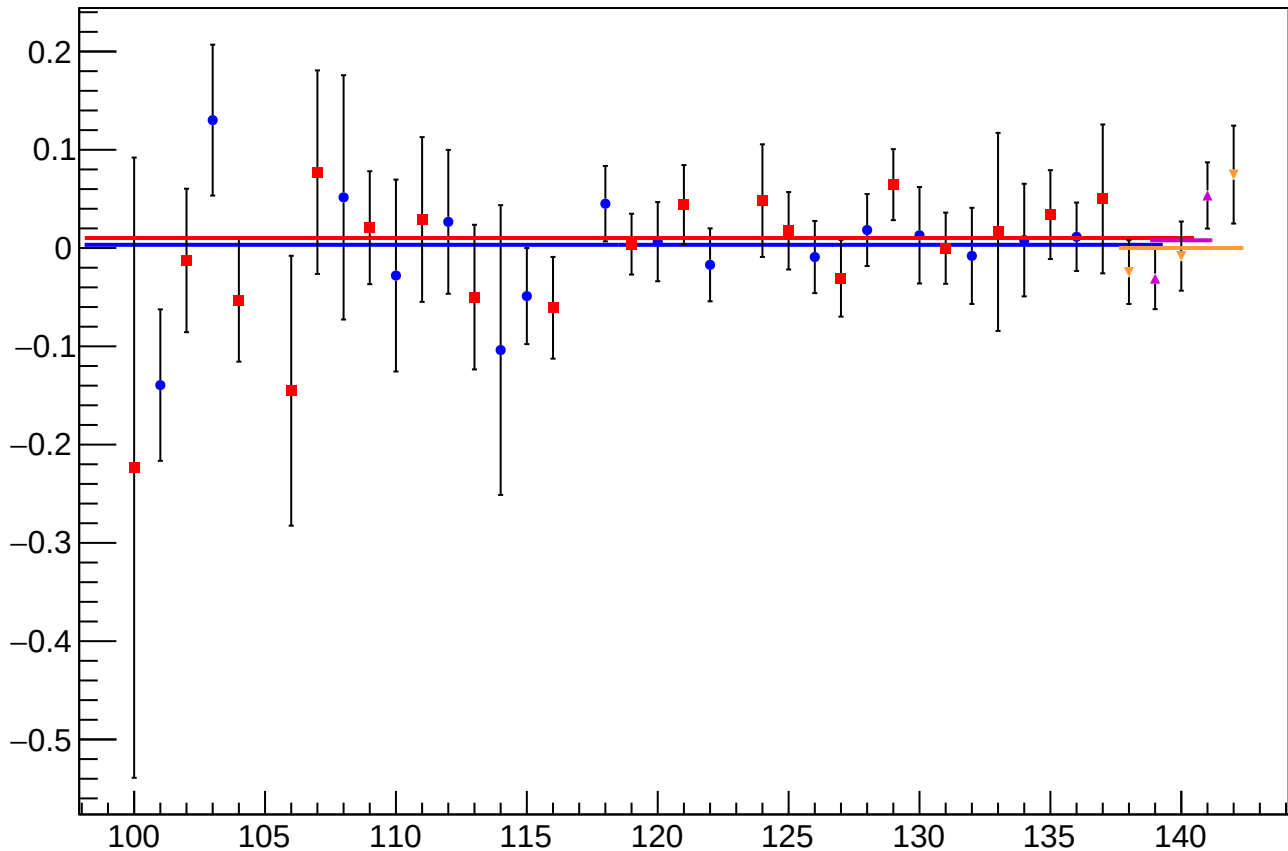
Right: 0.001+/-0.000 χ^2/NDF : 13904727.1/34

In: 0.001+/-0.000 χ^2/NDF : 7803961.1/17

Out: 0.001+/-0.000 χ^2/NDF : 8109540.9/21

All: 0.001+/-0.000 χ^2/NDF : 16011029.6/39

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.012 χ^2 /NDF: 10.1/15

Left Out: 0.000 $\pm$ 0.022 χ^2 /NDF:2.9/2

Right Out: 0.010 $\pm$ 0.012 χ^2 /NDF: 11.2/18

Left In: 0.008 $\pm$ 0.023 χ^2 /NDF:3.4/1

Left: 0.004 $\pm$ 0.016 χ^2 /NDF: 6.3/4

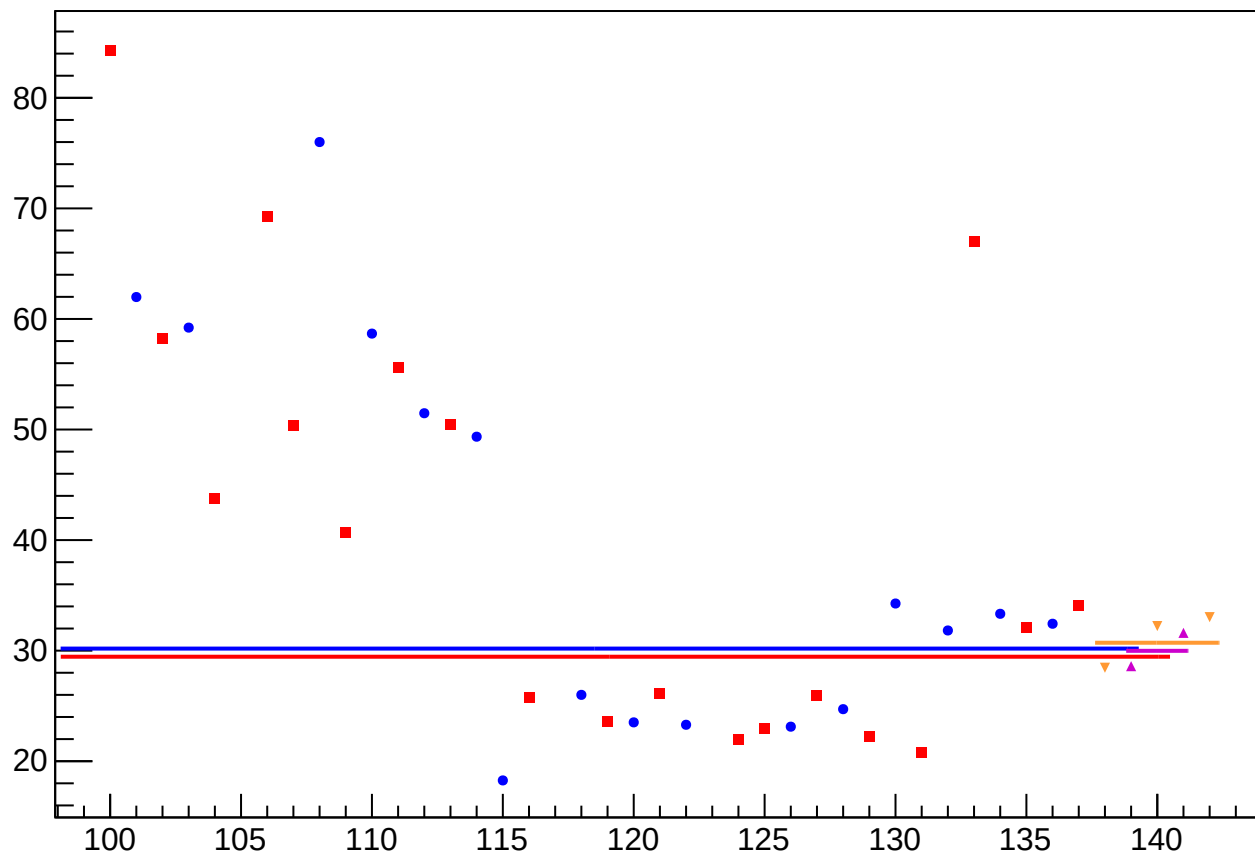
Right: 0.007 $\pm$ 0.009 χ^2 /NDF: 21.5/34

In: 0.004 $\pm$ 0.011 χ^2 /NDF:13.5/17

Out: 0.008 $\pm$ 0.010 χ^2 /NDF:14.3/21

All: 0.006 $\pm$ 0.007 χ^2 /NDF: 27.9/39

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 30.187+/-0.009 χ^2/NDF : 1687188.2/15

Left Out: 30.715+/-0.015 χ^2/NDF :17709.2/2

Right Out: 29.451+/-0.008 χ^2/NDF : 1848632.6/18

Left In: 29.984+/-0.016 χ^2/NDF :8624.0/1

Left: 30.372+/-0.011 χ^2/NDF : 27418.4/4

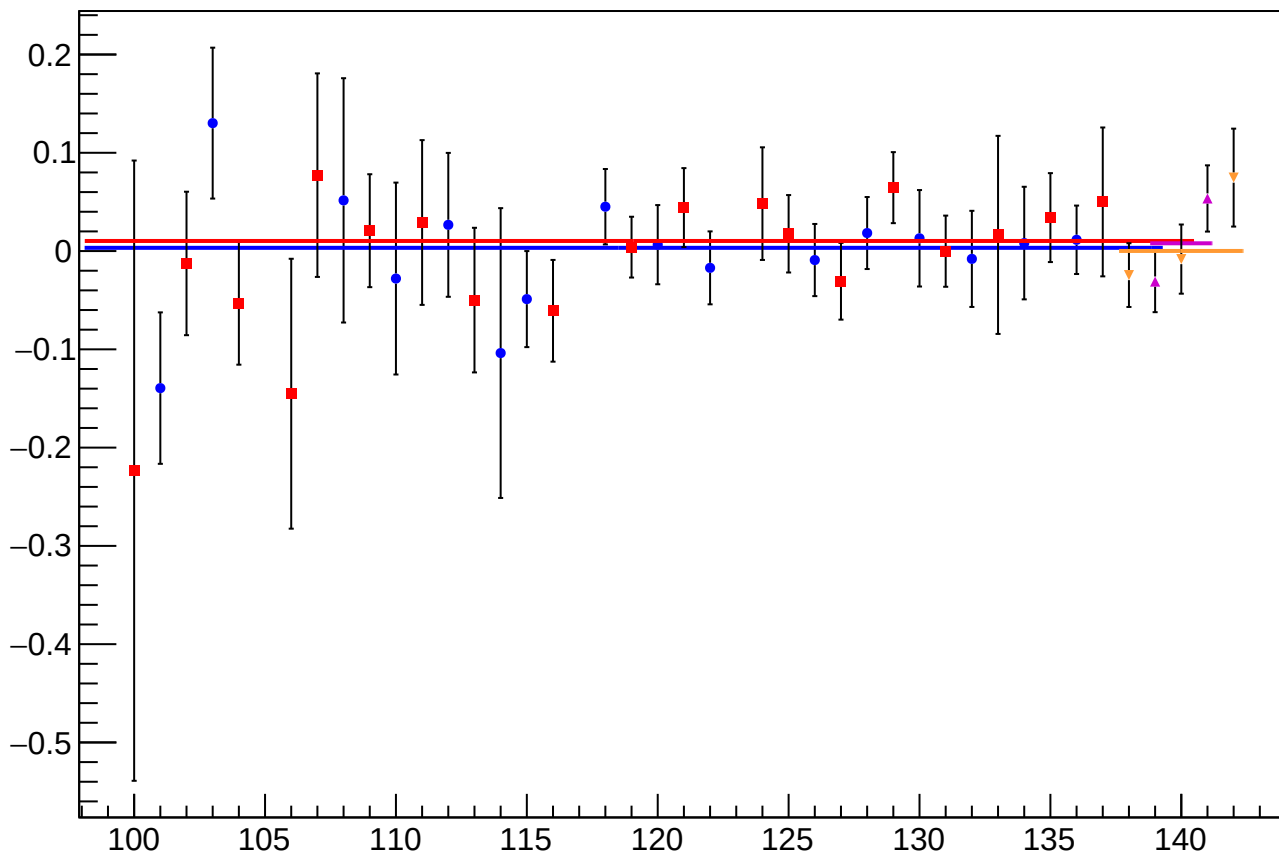
Right: 29.805+/-0.006 χ^2/NDF : 3539550.0/34

In: 30.141+/-0.008 χ^2/NDF :1695934.7/17

Out: 29.744+/-0.007 χ^2/NDF :1871648.2/21

All: 29.934+/-0.005 χ^2/NDF : 3568991.2/39

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.012 χ^2 /NDF: 10.1/15

Left Out: 0.000 $\pm$ 0.022 χ^2 /NDF:2.9/2

Right Out: 0.010 $\pm$ 0.012 χ^2 /NDF: 11.2/18

Left In: 0.008 $\pm$ 0.023 χ^2 /NDF:3.4/1

Left: 0.004 $\pm$ 0.016 χ^2 /NDF: 6.3/4

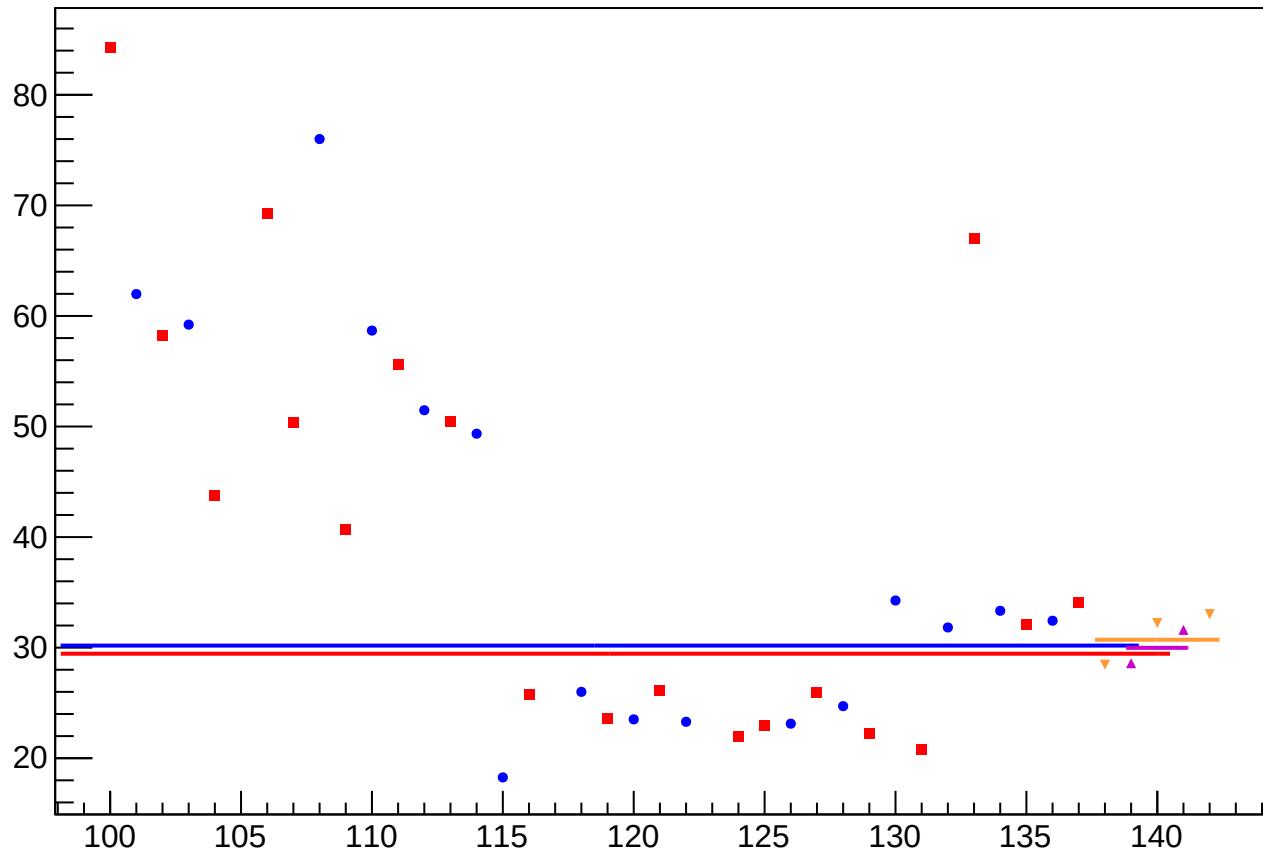
Right: 0.007 $\pm$ 0.009 χ^2 /NDF: 21.5/34

In: 0.004 $\pm$ 0.011 χ^2 /NDF:13.5/17

Out: 0.008 $\pm$ 0.010 χ^2 /NDF:14.3/21

All: 0.006 $\pm$ 0.007 χ^2 /NDF: 27.9/39

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 30.187 $\pm$ 0.009 χ^2 /NDF: 1687188.2/15

Left Out: 30.715 $\pm$ 0.015 χ^2 /NDF:17709.2/2

Right Out: 29.451 $\pm$ 0.008 χ^2 /NDF: 1848632.6/18

Left In: 29.984 $\pm$ 0.016 χ^2 /NDF:8624.0/1

Left: 30.372 $\pm$ 0.011 χ^2 /NDF: 27418.4/4

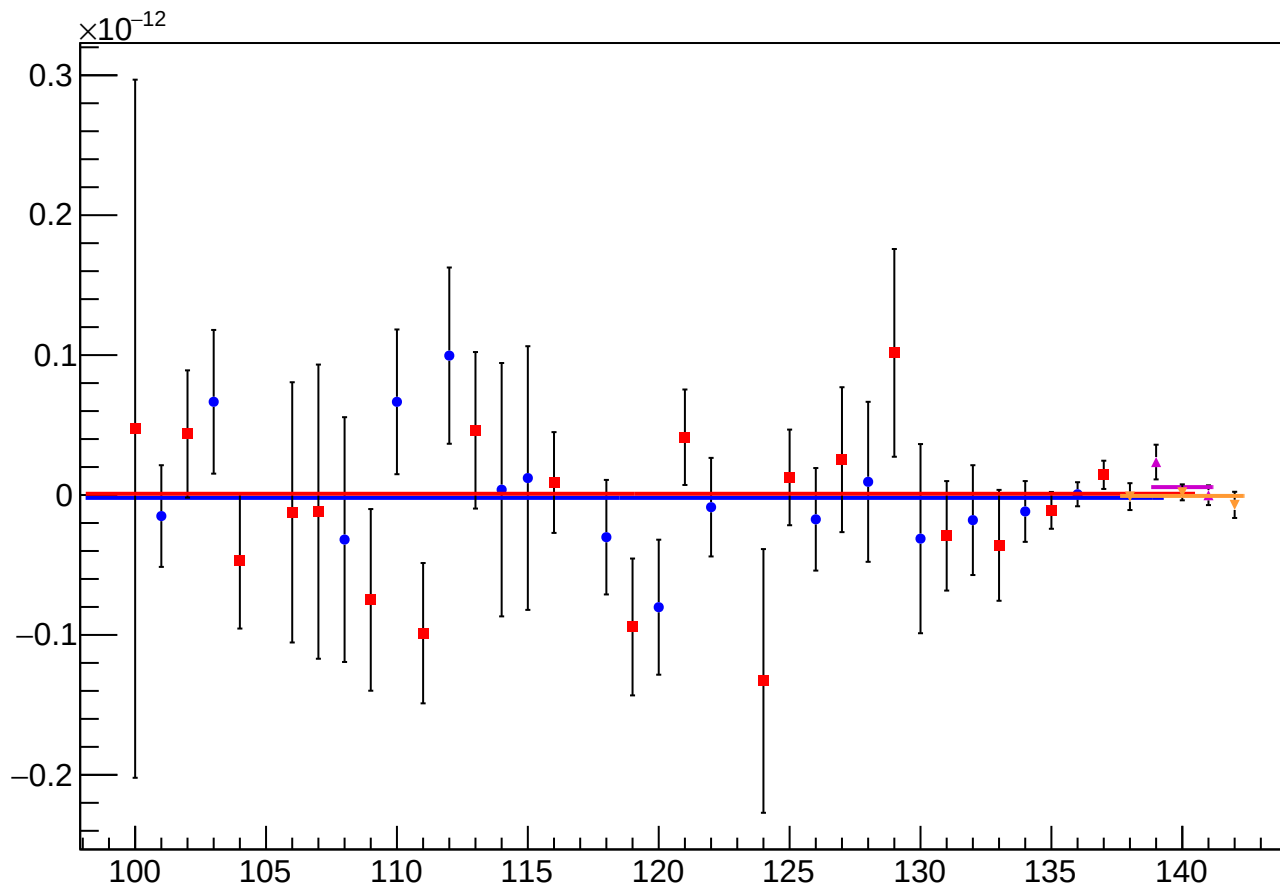
Right: 29.805 $\pm$ 0.006 χ^2 /NDF: 3539550.0/34

In: 30.141 $\pm$ 0.008 χ^2 /NDF:1695934.7/17

Out: 29.744 $\pm$ 0.007 χ^2 /NDF:1871648.2/21

All: 29.934 $\pm$ 0.005 χ^2 /NDF: 3568991.2/39

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 10.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 0.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 21.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 2.8/1

Left: 0.000+/-0.000 χ^2/NDF : 4.1/4

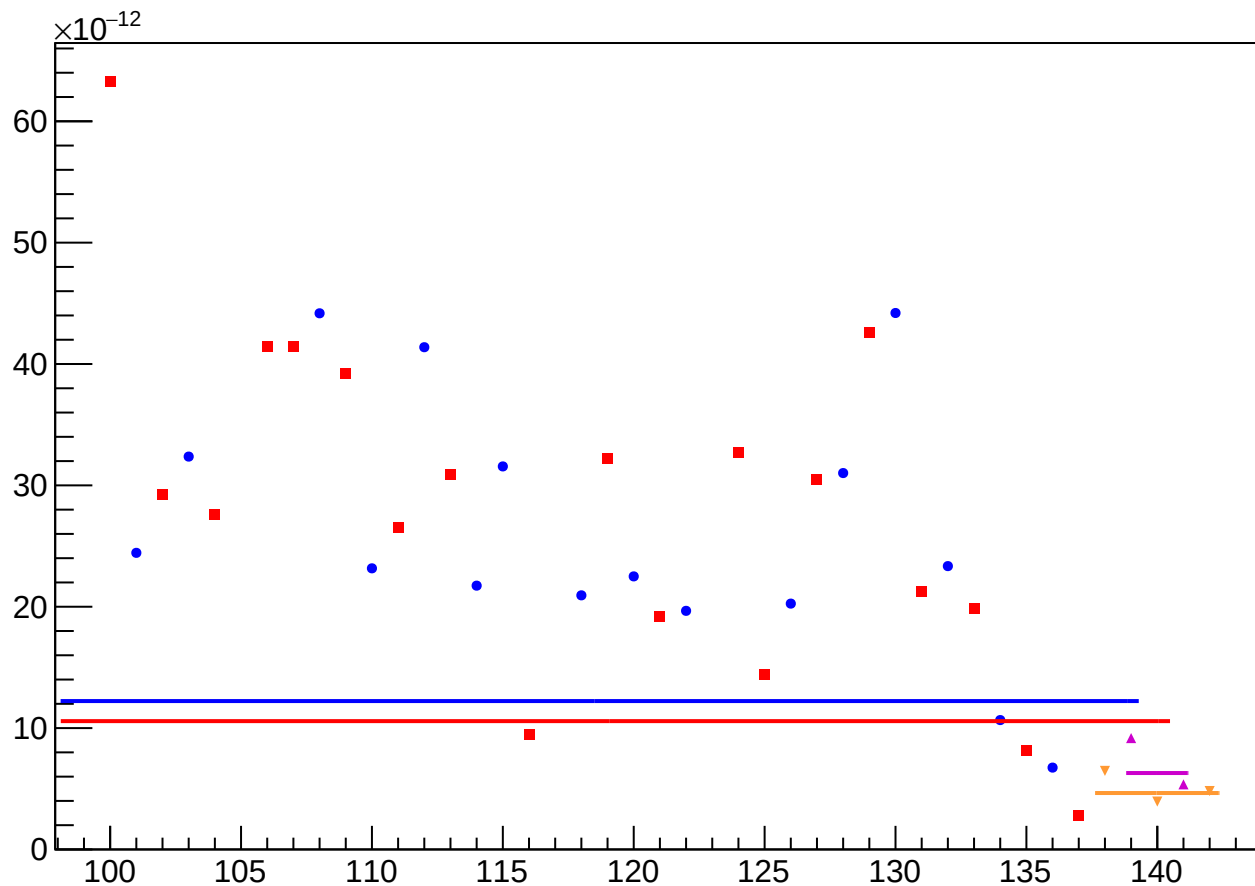
Right: -0.000+/-0.000 χ^2/NDF : 31.9/34

In: 0.000+/-0.000 χ^2/NDF : 13.9/17

Out: -0.000+/-0.000 χ^2/NDF : 22.1/21

All: 0.000+/-0.000 χ^2/NDF : 36.2/39

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3437895.0/15

Left Out: 0.000+/-0.000 χ^2/NDF :103137.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4770079.9/18

Left In: 0.000+/-0.000 χ^2/NDF :142906.6/1

Left: 0.000+/-0.000 χ^2/NDF : 342155.5/4

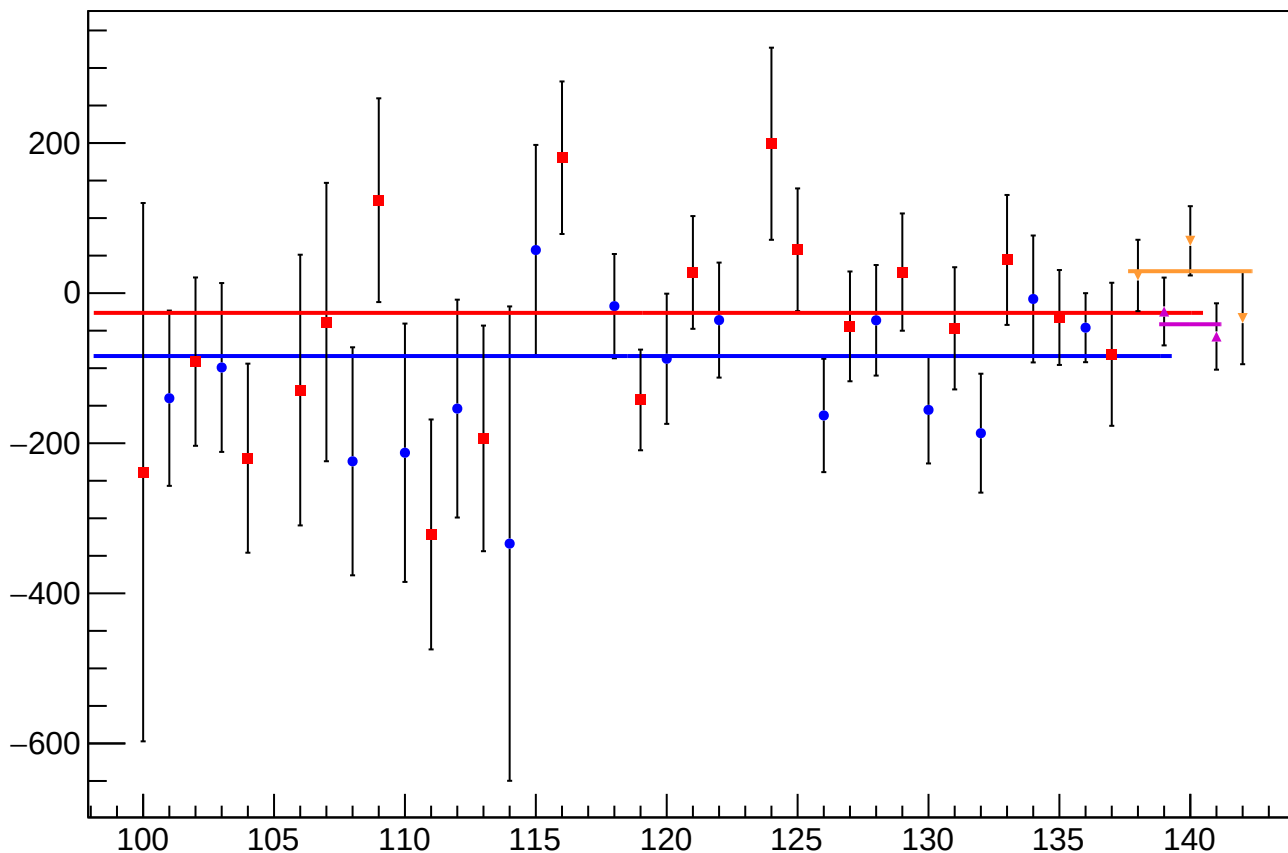
Right: 0.000+/-0.000 χ^2/NDF : 8268115.2/34

In: 0.000+/-0.000 χ^2/NDF :4416944.3/17

Out: 0.000+/-0.000 χ^2/NDF :5983159.6/21

All: 0.000+/-0.000 χ^2/NDF : 10776482.4/39

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -83.808 ± 21.434 χ^2/NDF : 10.5/15

Left Out: 29.218 ± 29.145 χ^2/NDF : 1.8/2

Right Out: -26.301 ± 22.067 χ^2/NDF : 23.0/18

Left In: -41.459 ± 31.601 χ^2/NDF : 0.3/1

Left: -3.268 ± 21.425 χ^2/NDF : 4.8/4

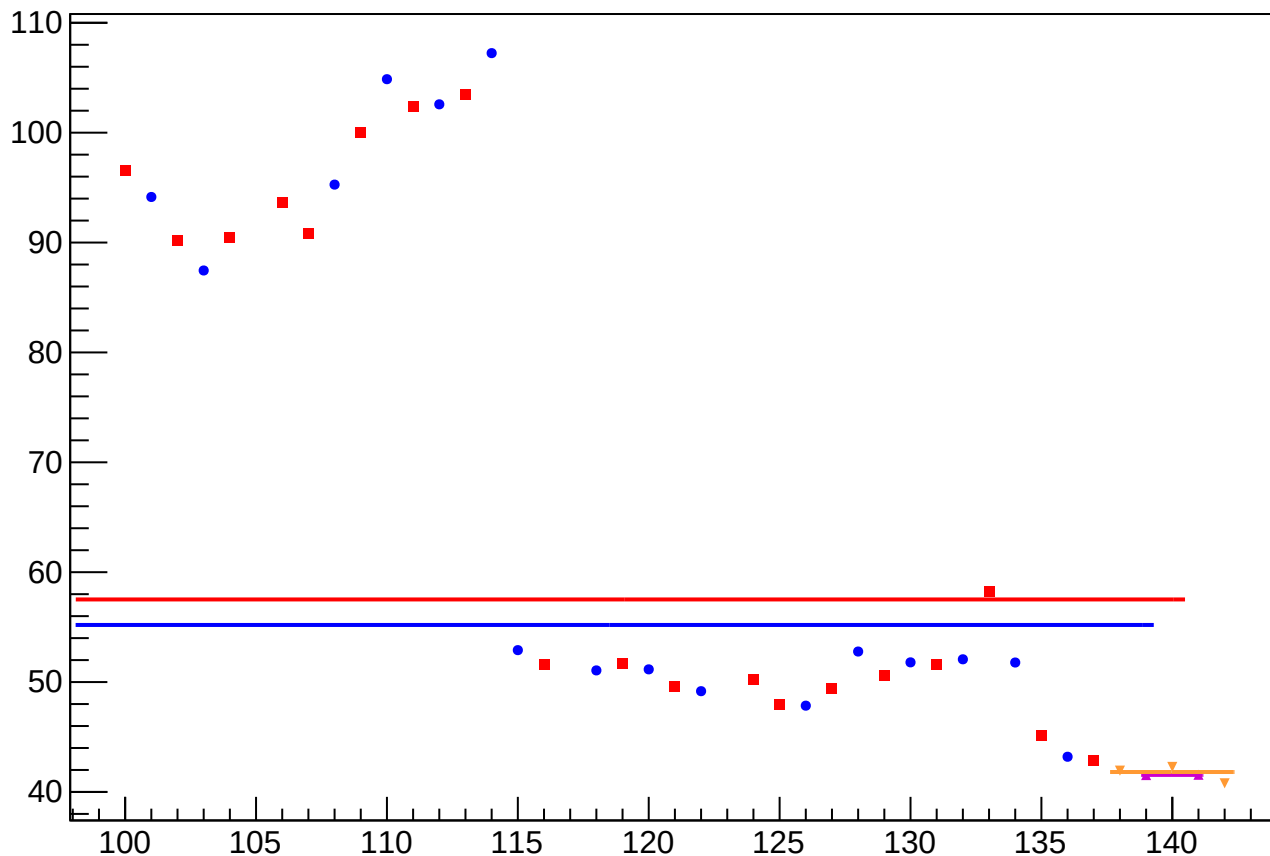
Right: -55.890 ± 15.375 χ^2/NDF : 37.0/34

In: -70.464 ± 17.739 χ^2/NDF : 12.1/17

Out: -6.072 ± 17.593 χ^2/NDF : 27.1/21

All: -38.002 ± 12.491 χ^2/NDF : 45.8/39

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 55.198+/-0.015 χ^2/NDF : 1152581.1/15

Left Out: 41.815+/-0.021 χ^2/NDF : 776.3/2

Right Out: 57.519+/-0.016 χ^2/NDF : 1281793.1/18

Left In: 41.551+/-0.022 χ^2/NDF : 0.4/1

Left: 41.694+/-0.015 χ^2/NDF : 851.8/4

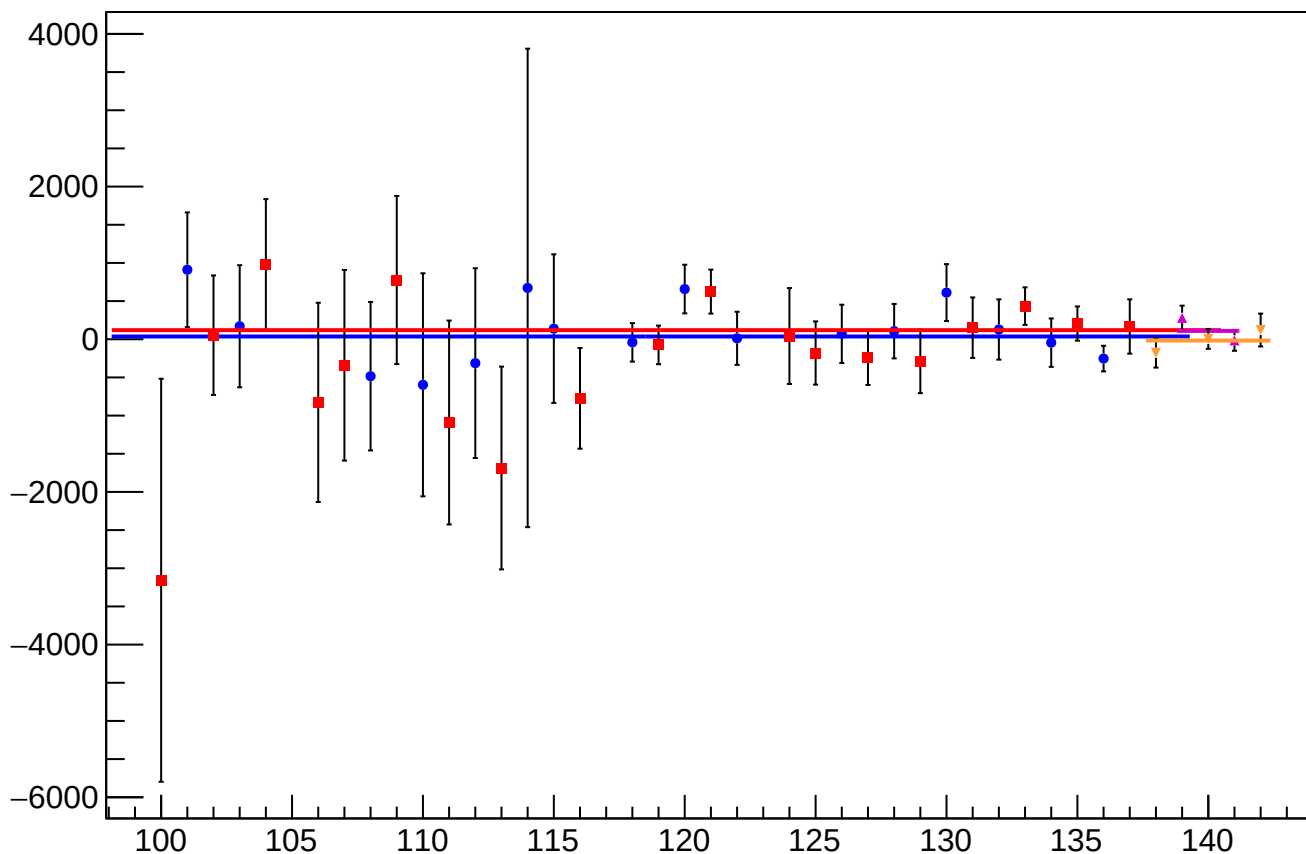
Right: 56.325+/-0.011 χ^2/NDF : 2445763.7/34

In: 50.898+/-0.013 χ^2/NDF : 1408022.4/17

Out: 51.797+/-0.012 χ^2/NDF : 1651666.6/21

All: 51.351+/-0.009 χ^2/NDF : 3062279.7/39

asym_sam_37_26_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 36.327+/-93.563 χ^2/NDF : 11.4/15

Left Out: -16.927+/-96.597 χ^2/NDF : 1.1/2

Right Out: 119.166+/-95.833 χ^2/NDF : 16.0/18

Left In: 109.626+/-103.683 χ^2/NDF : 2.0/1

Left: 41.877+/-70.677 χ^2/NDF : 3.9/4

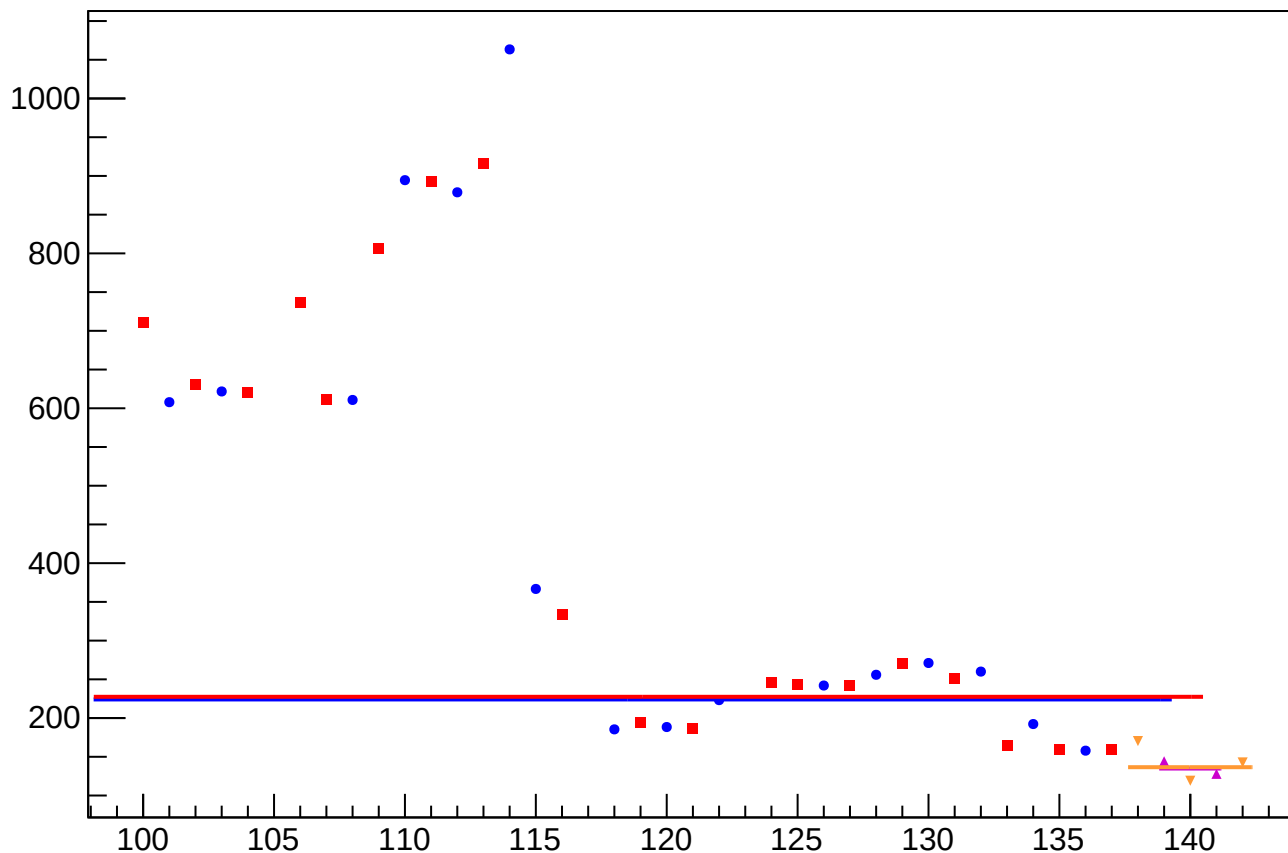
Right: 76.754+/-66.947 χ^2/NDF : 27.8/34

In: 69.225+/-69.462 χ^2/NDF : 13.7/17

Out: 51.659+/-68.033 χ^2/NDF : 18.1/21

All: 60.260+/-48.604 χ^2/NDF : 31.8/39

asym_sam_37_26_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 224.042 $\pm$ 0.066 χ^2 /NDF: 2968054.7/15

Left Out: 136.563 $\pm$ 0.068 χ^2 /NDF:98218.6/2

Right Out: 227.451 $\pm$ 0.068 χ^2 /NDF: 3640634.3/18

Left In: 134.829 $\pm$ 0.073 χ^2 /NDF:11900.7/1

Left: 135.758 $\pm$ 0.050 χ^2 /NDF: 110418.7/4

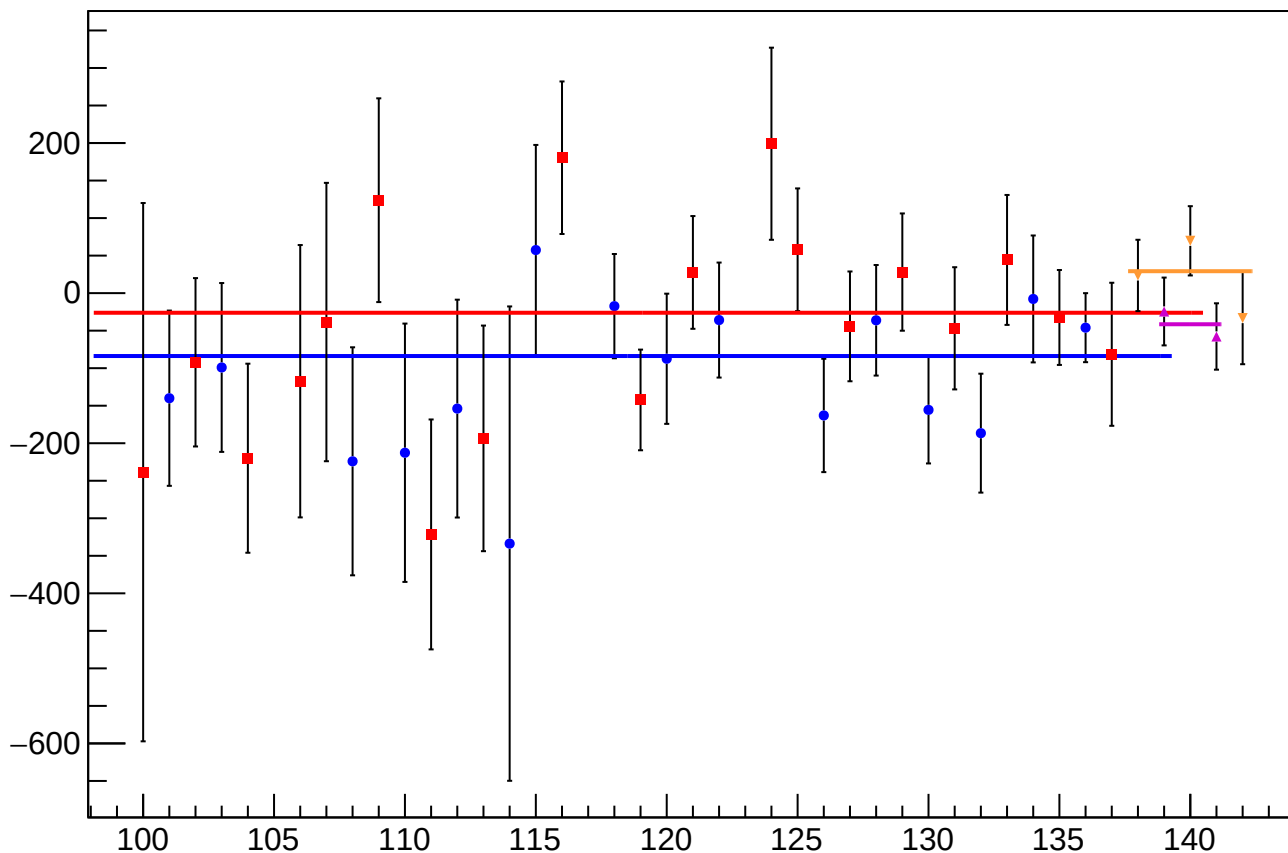
Right: 225.705 $\pm$ 0.047 χ^2 /NDF: 6609984.7/34

In: 184.001 $\pm$ 0.049 χ^2 /NDF:3796074.3/17

Out: 182.368 $\pm$ 0.048 χ^2 /NDF:4631161.2/21

All: 183.167 $\pm$ 0.034 χ^2 /NDF: 8427799.7/39

cor_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -83.805 ± 21.434 χ^2/NDF : 10.5/15

Left Out: 29.216 ± 29.145 χ^2/NDF : 1.8/2

Right Out: -26.142 ± 22.069 χ^2/NDF : 22.9/18

Left In: -41.466 ± 31.601 χ^2/NDF : 0.3/1

Left: -3.272 ± 21.425 χ^2/NDF : 4.8/4

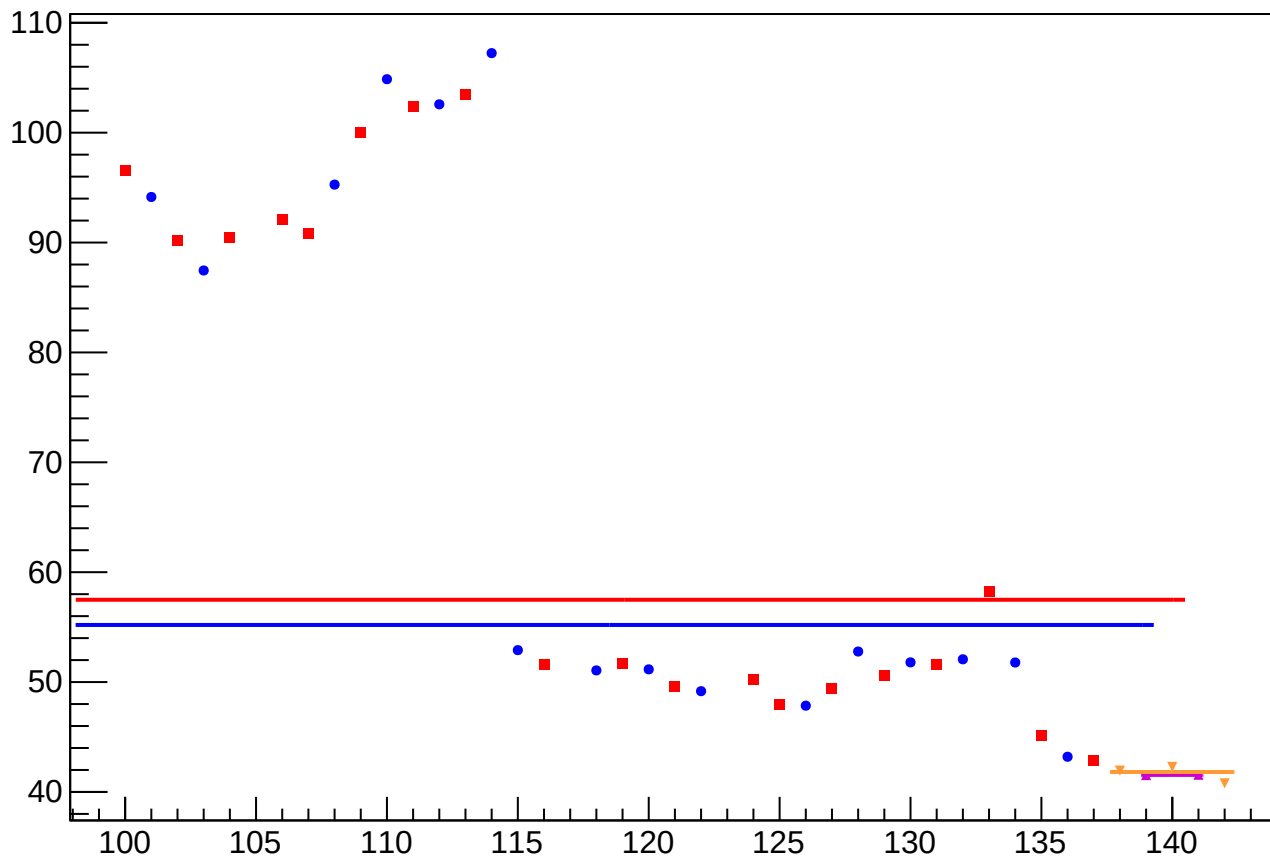
Right: -55.815 ± 15.376 χ^2/NDF : 37.0/34

In: -70.464 ± 17.739 χ^2/NDF : 12.1/17

Out: -5.969 ± 17.594 χ^2/NDF : 27.0/21

All: -37.952 ± 12.492 χ^2/NDF : 45.7/39

cor_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 55.198+/-0.015 χ^2/NDF : 1152581.3/15

Left Out: 41.815+/-0.021 χ^2/NDF : 776.3/2

Right Out: 57.490+/-0.016 χ^2/NDF : 1274387.3/18

Left In: 41.551+/-0.022 χ^2/NDF : 0.4/1

Left: 41.694+/-0.015 χ^2/NDF : 851.8/4

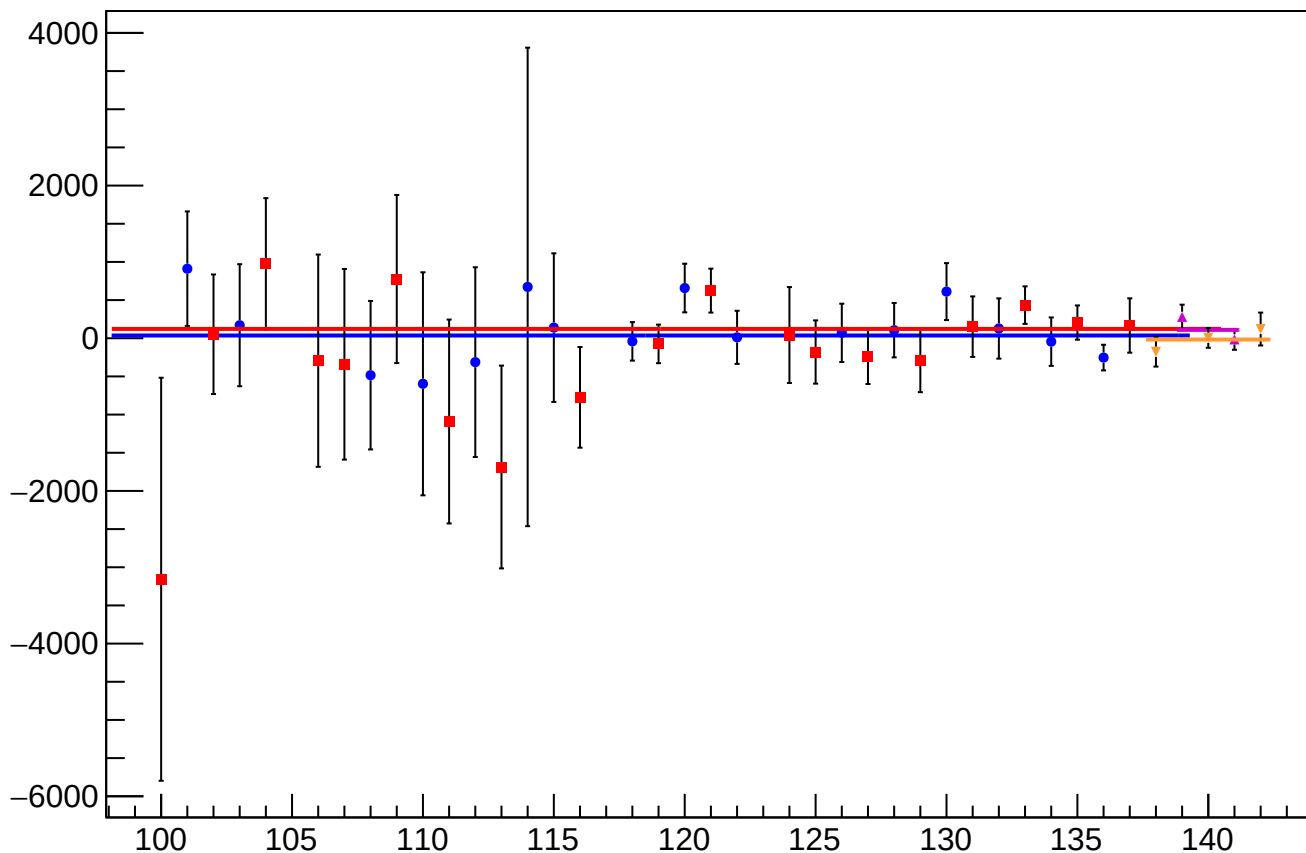
Right: 56.311+/-0.011 χ^2/NDF : 2438075.6/34

In: 50.898+/-0.013 χ^2/NDF : 1408022.6/17

Out: 51.778+/-0.012 χ^2/NDF : 1642879.6/21

All: 51.341+/-0.009 χ^2/NDF : 3053384.1/39

asym_sam_37_26_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 36.327 $\pm$ 93.563 χ^2 /NDF: 11.4/15

Left Out: -16.929 $\pm$ 96.597 χ^2 /NDF:1.1/2

Right Out: 122.289 $\pm$ 95.865 χ^2 /NDF: 15.6/18

Left In: 109.626 $\pm$ 103.683 χ^2 /NDF:2.0/1

Left: 41.877 $\pm$ 70.677 χ^2 /NDF: 3.9/4

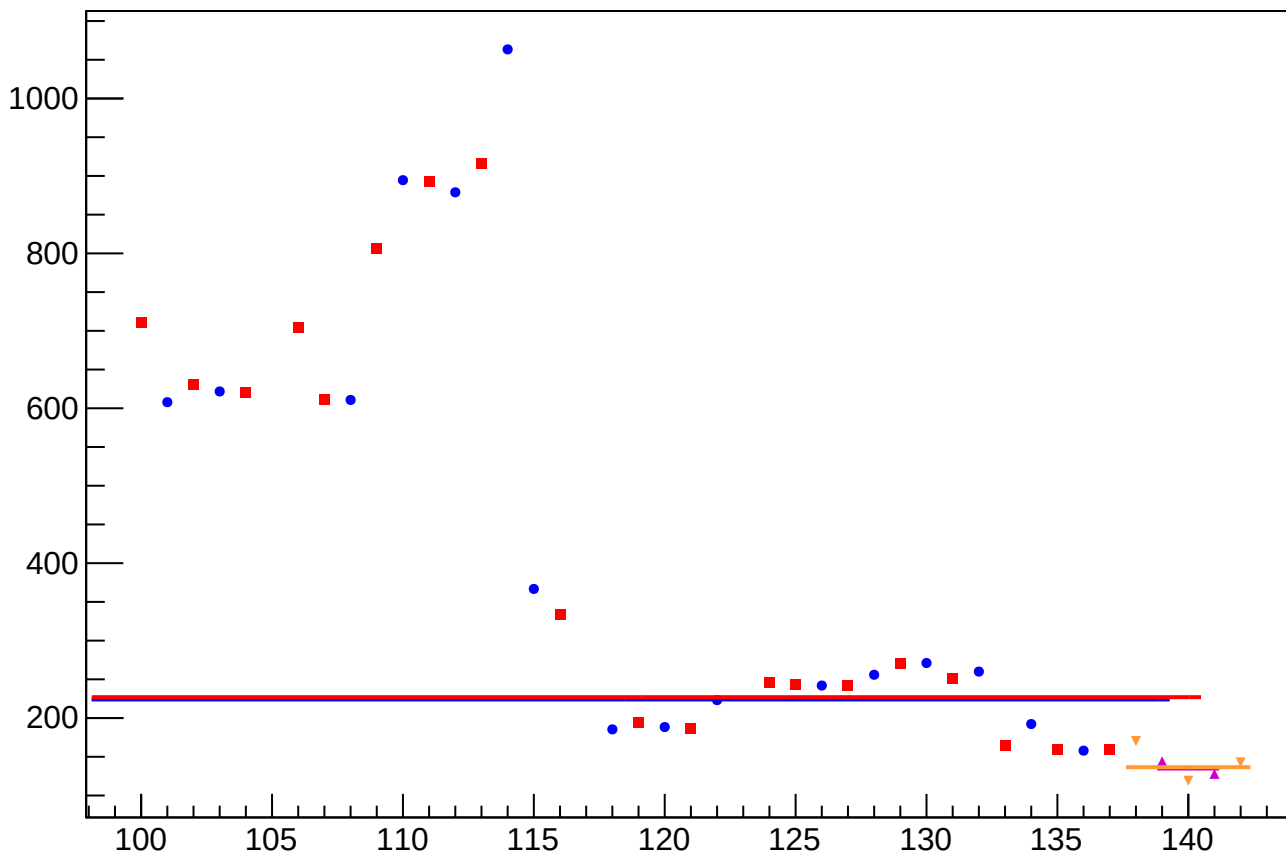
Right: 78.263 $\pm$ 66.958 χ^2 /NDF: 27.4/34

In: 69.226 $\pm$ 69.462 χ^2 /NDF:13.7/17

Out: 53.209 $\pm$ 68.044 χ^2 /NDF:17.8/21

All: 61.052 $\pm$ 48.608 χ^2 /NDF: 31.4/39

asym_sam_37_26_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 224.042+/-0.066 χ^2/NDF : 2968059.8/15

Left Out: 136.563+/-0.068 χ^2/NDF : 98217.3/2

Right Out: 226.971+/-0.068 χ^2/NDF : 3571946.9/18

Left In: 134.829+/-0.073 χ^2/NDF : 11900.7/1

Left: 135.758+/-0.050 χ^2/NDF : 110417.4/4

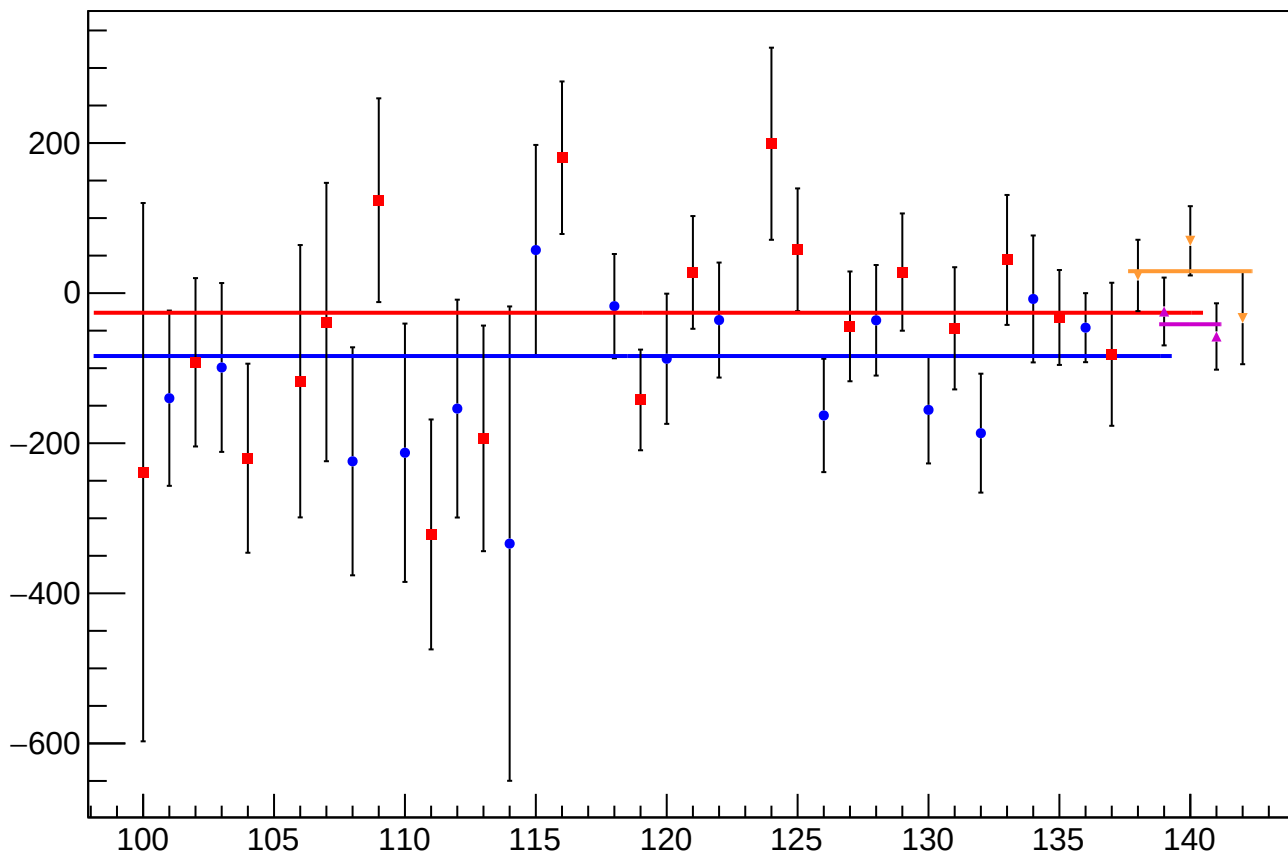
Right: 225.471+/-0.047 χ^2/NDF : 6540963.0/34

In: 184.001+/-0.049 χ^2/NDF : 3796080.8/17

Out: 182.111+/-0.048 χ^2/NDF : 4552790.2/21

All: 183.036+/-0.034 χ^2/NDF : 8349626.3/39

eigen_cor_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -83.805 ± 21.434 χ^2/NDF : 10.5/15

Left Out: 29.216 ± 29.145 χ^2/NDF : 1.8/2

Right Out: -26.142 ± 22.069 χ^2/NDF : 22.9/18

Left In: -41.466 ± 31.601 χ^2/NDF : 0.3/1

Left: -3.272 ± 21.425 χ^2/NDF : 4.8/4

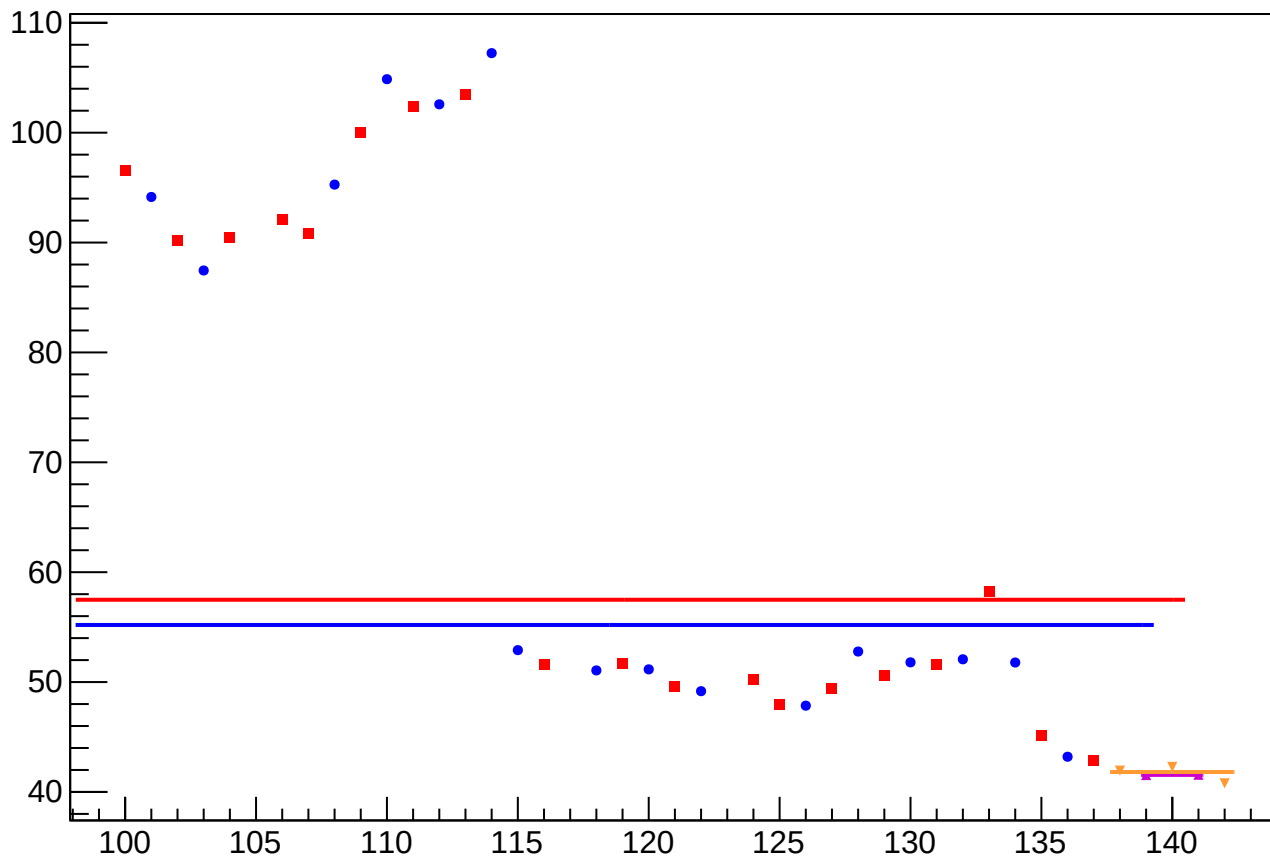
Right: -55.815 ± 15.376 χ^2/NDF : 37.0/34

In: -70.464 ± 17.739 χ^2/NDF : 12.1/17

Out: -5.969 ± 17.594 χ^2/NDF : 27.0/21

All: -37.952 ± 12.492 χ^2/NDF : 45.7/39

eigen_cor_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 55.198+/-0.015 χ^2/NDF : 1152581.3/15

Left Out: 41.815+/-0.021 χ^2/NDF : 776.3/2

Right Out: 57.490+/-0.016 χ^2/NDF : 1274387.3/18

Left In: 41.551+/-0.022 χ^2/NDF : 0.4/1

Left: 41.694+/-0.015 χ^2/NDF : 851.8/4

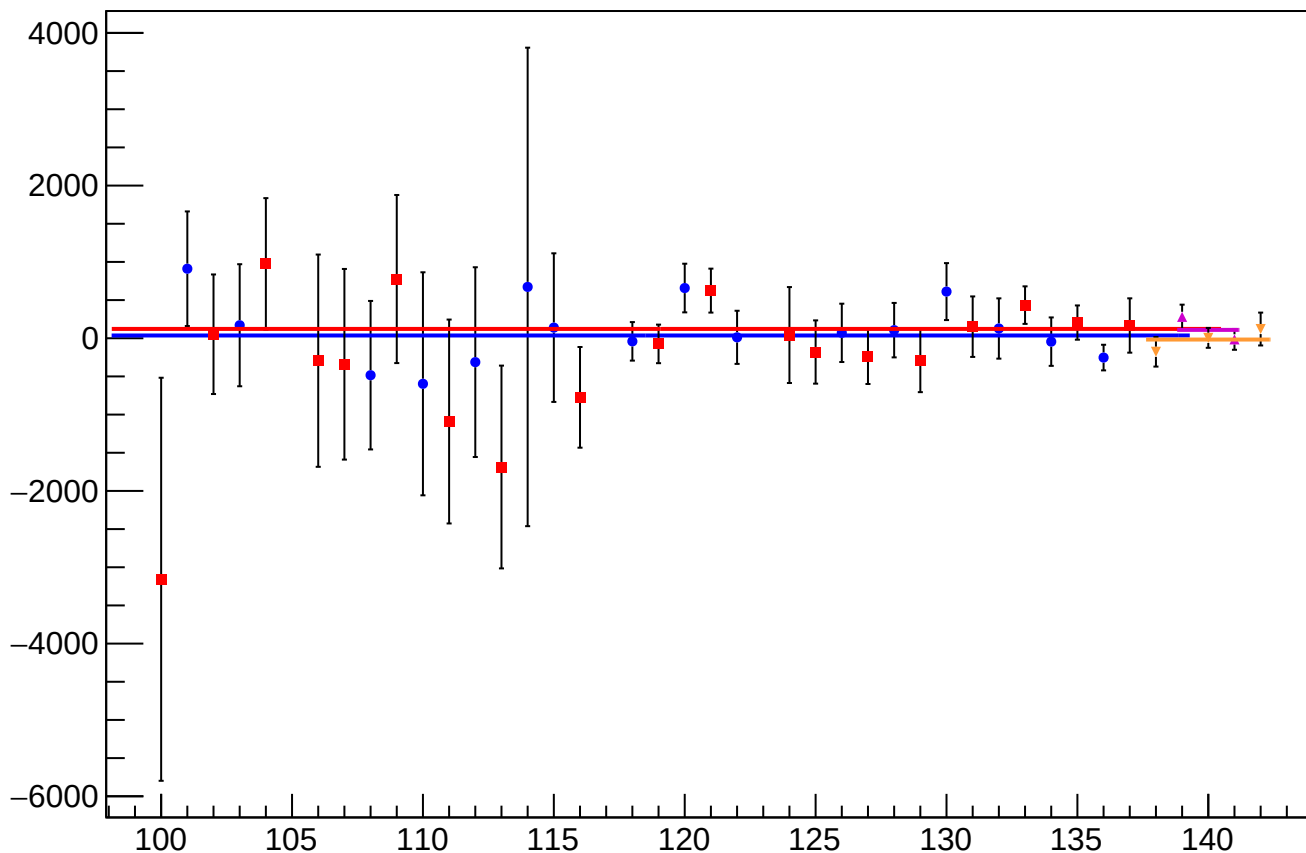
Right: 56.311+/-0.011 χ^2/NDF : 2438075.6/34

In: 50.898+/-0.013 χ^2/NDF : 1408022.6/17

Out: 51.778+/-0.012 χ^2/NDF : 1642879.6/21

All: 51.341+/-0.009 χ^2/NDF : 3053384.1/39

asym_sam_37_26_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 36.327+/-93.563 χ^2/NDF : 11.4/15

Left Out: -16.929+/-96.597 χ^2/NDF : 1.1/2

Right Out: 122.289+/-95.865 χ^2/NDF : 15.6/18

Left In: 109.626+/-103.683 χ^2/NDF : 2.0/1

Left: 41.877+/-70.677 χ^2/NDF : 3.9/4

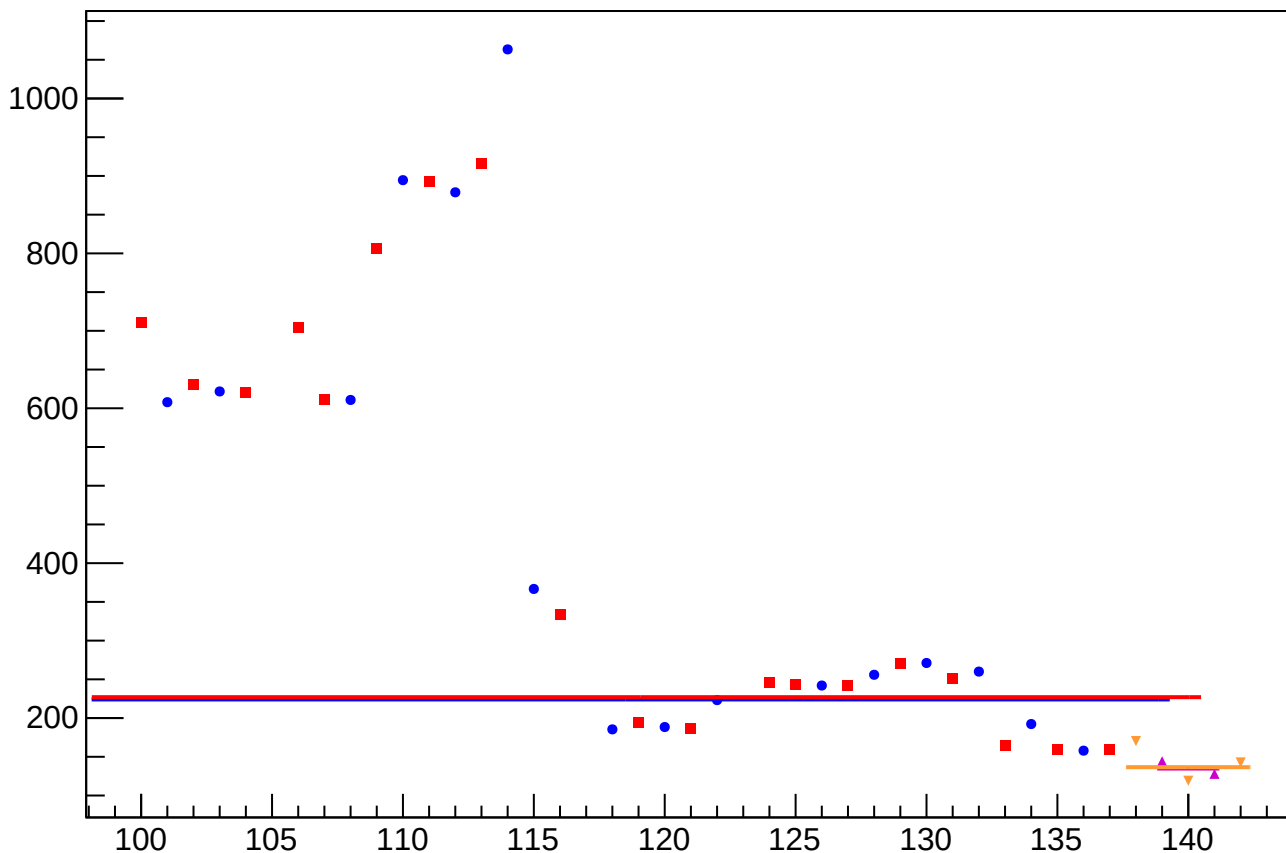
Right: 78.263+/-66.958 χ^2/NDF : 27.4/34

In: 69.226+/-69.462 χ^2/NDF : 13.7/17

Out: 53.209+/-68.044 χ^2/NDF : 17.8/21

All: 61.052+/-48.608 χ^2/NDF : 31.4/39

asym_sam_37_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 224.042 $\pm$ 0.066 χ^2 /NDF: 2968059.8/15

Left Out: 136.563 $\pm$ 0.068 χ^2 /NDF:98217.3/2

Right Out: 226.971 $\pm$ 0.068 χ^2 /NDF: 3571946.9/18

Left In: 134.829 $\pm$ 0.073 χ^2 /NDF:11900.7/1

Left: 135.758 $\pm$ 0.050 χ^2 /NDF: 110417.4/4

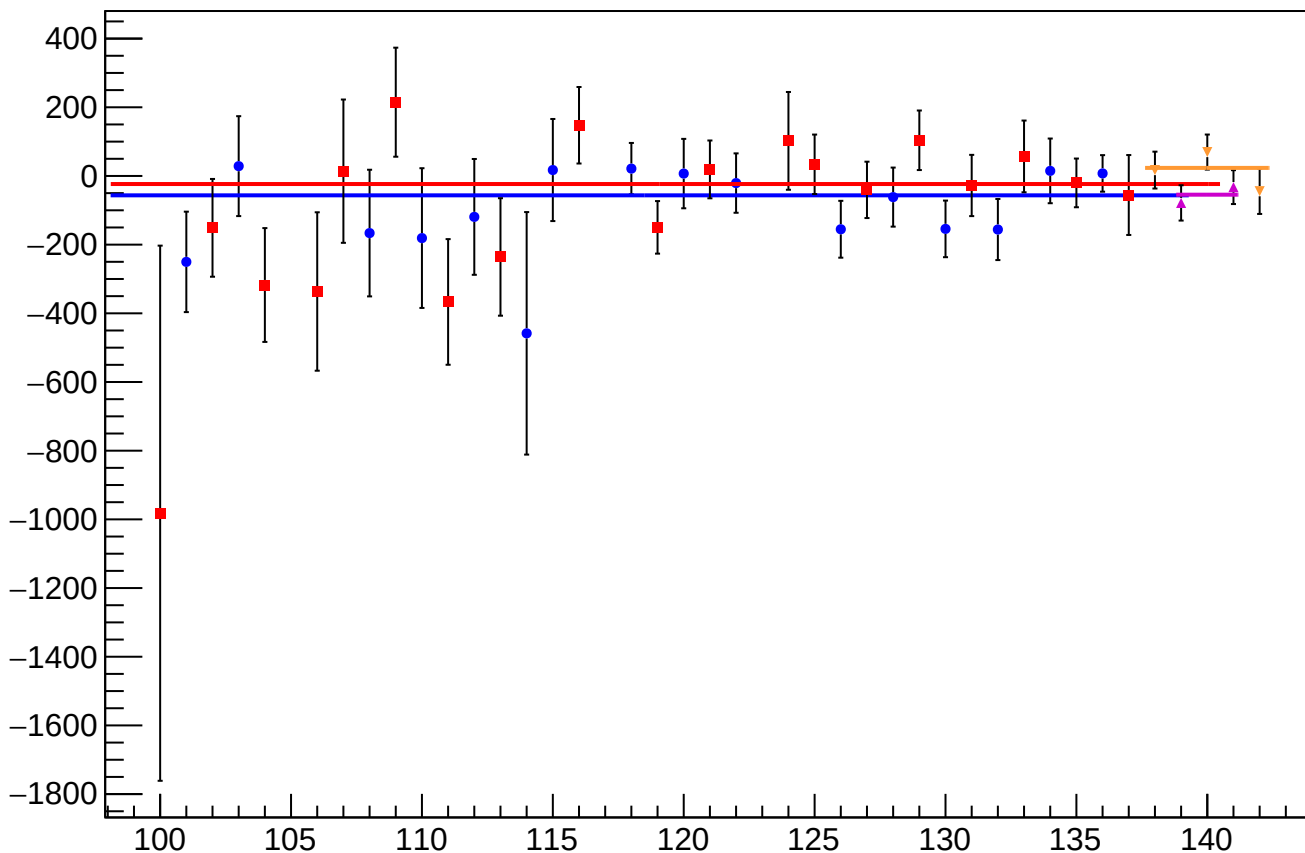
Right: 225.471 $\pm$ 0.047 χ^2 /NDF: 6540963.0/34

In: 184.001 $\pm$ 0.049 χ^2 /NDF:3796080.8/17

Out: 182.111 $\pm$ 0.048 χ^2 /NDF:4552790.2/21

All: 183.036 $\pm$ 0.034 χ^2 /NDF: 8349626.3/39

dit_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -56.414 ± 24.489 $\chi^2/\text{NDF}: 12.3/15$

Left Out: 23.470 ± 32.291 $\chi^2/\text{NDF}: 1.9/2$

Right Out: -23.495 ± 25.161 $\chi^2/\text{NDF}: 24.1/18$

Left In: -54.533 ± 35.595 $\chi^2/\text{NDF}: 0.4/1$

Left: -11.745 ± 23.916 $\chi^2/\text{NDF}: 4.9/4$

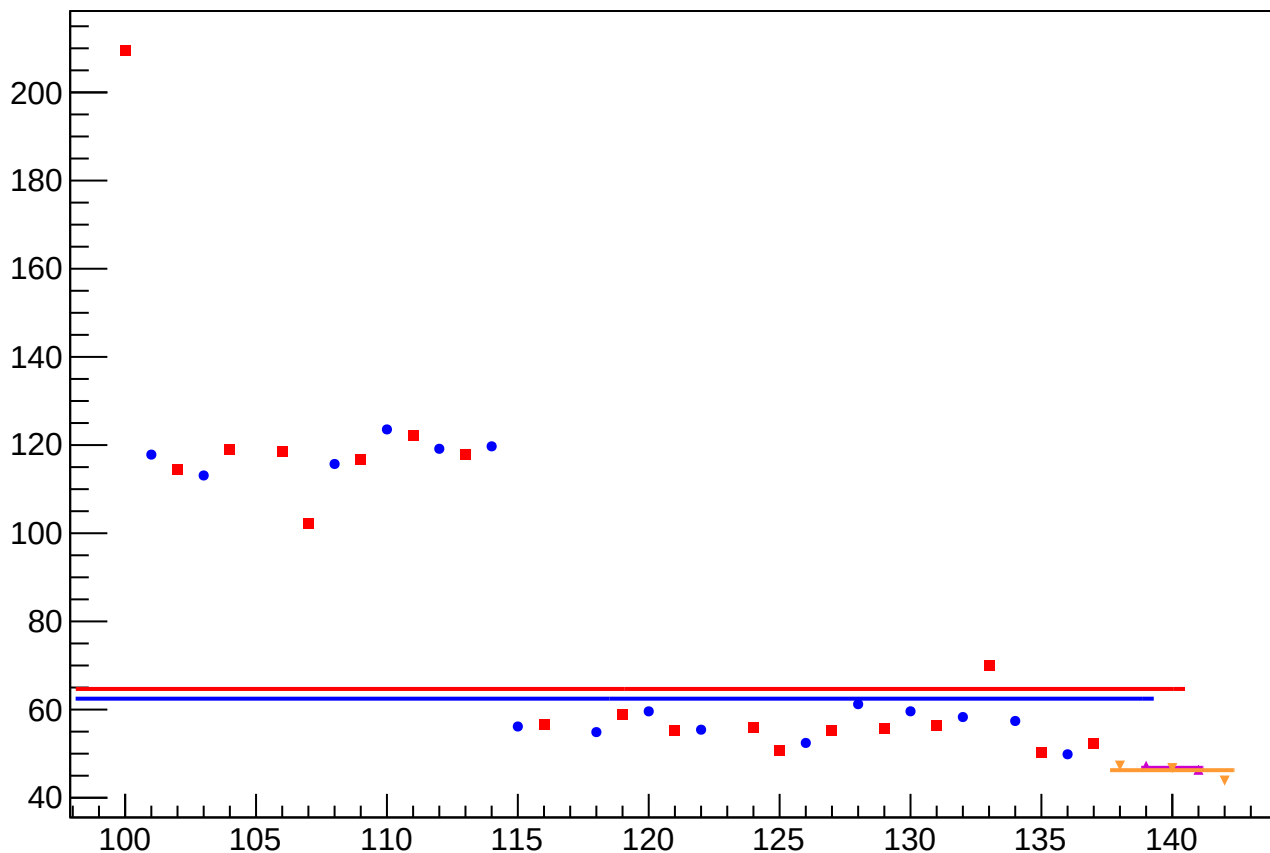
Right: -40.400 ± 17.549 $\chi^2/\text{NDF}: 37.2/34$

In: -55.809 ± 20.175 $\chi^2/\text{NDF}: 12.7/17$

Out: -5.753 ± 19.847 $\chi^2/\text{NDF}: 27.3/21$

All: -30.371 ± 14.149 $\chi^2/\text{NDF}: 43.1/39$

dit_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 62.474+/-0.017 χ^2/NDF : 1348224.3/15

Left Out: 46.254+/-0.023 χ^2/NDF : 3452.5/2

Right Out: 64.680+/-0.018 χ^2/NDF : 1590446.9/18

Left In: 46.791+/-0.025 χ^2/NDF : 328.4/1

Left: 46.496+/-0.017 χ^2/NDF : 4031.3/4

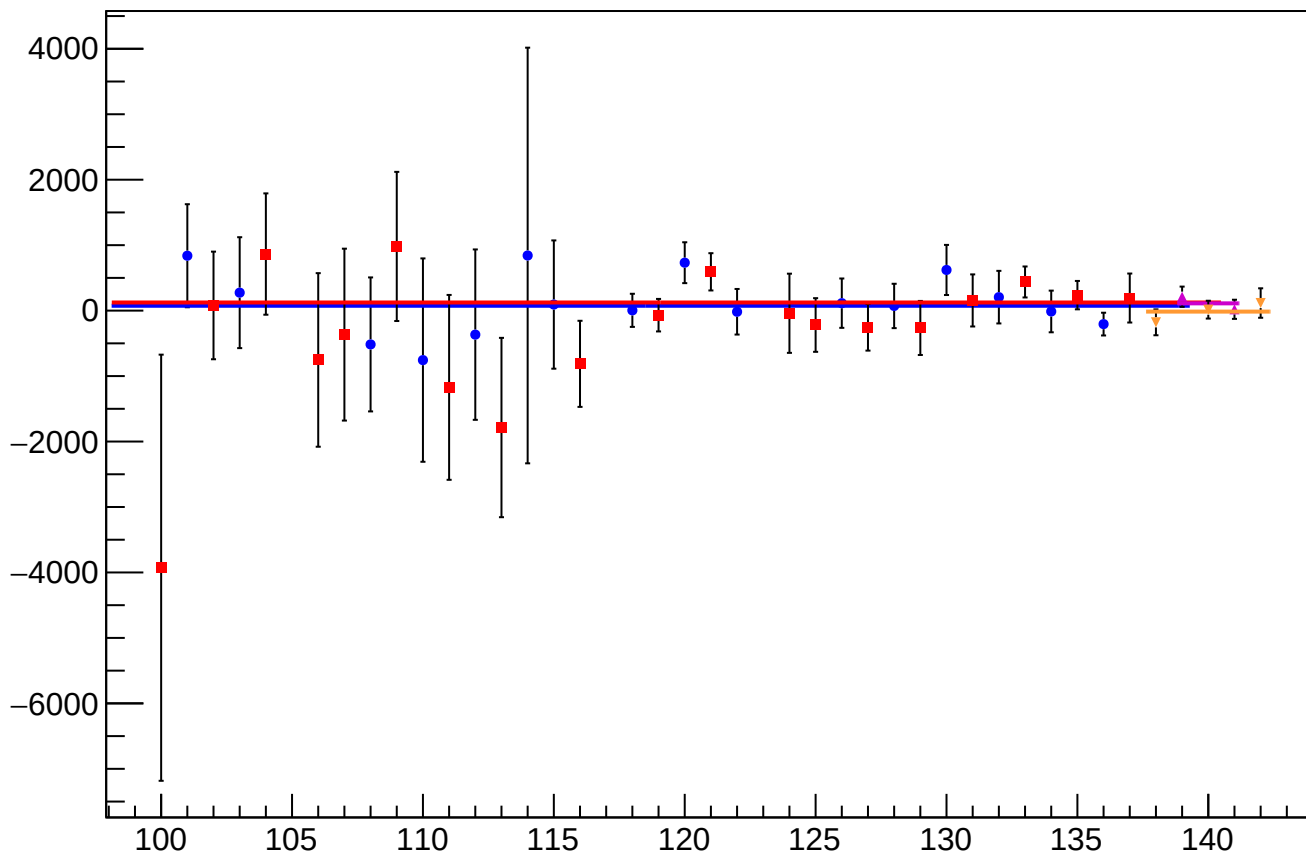
Right: 63.547+/-0.012 χ^2/NDF : 2946567.9/34

In: 57.436+/-0.014 χ^2/NDF : 1612065.5/17

Out: 57.719+/-0.014 χ^2/NDF : 1999135.2/21

All: 57.580+/-0.010 χ^2/NDF : 3611401.5/39

asym_sam_37_26_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 74.294+/-94.492 χ^2/NDF : 11.2/15

Left Out: -14.977+/-100.377 χ^2/NDF : 1.1/2

Right Out: 124.201+/-94.665 χ^2/NDF : 16.3/18

Left In: 111.011+/-106.229 χ^2/NDF : 0.8/1

Left: 44.451+/-72.958 χ^2/NDF : 2.6/4

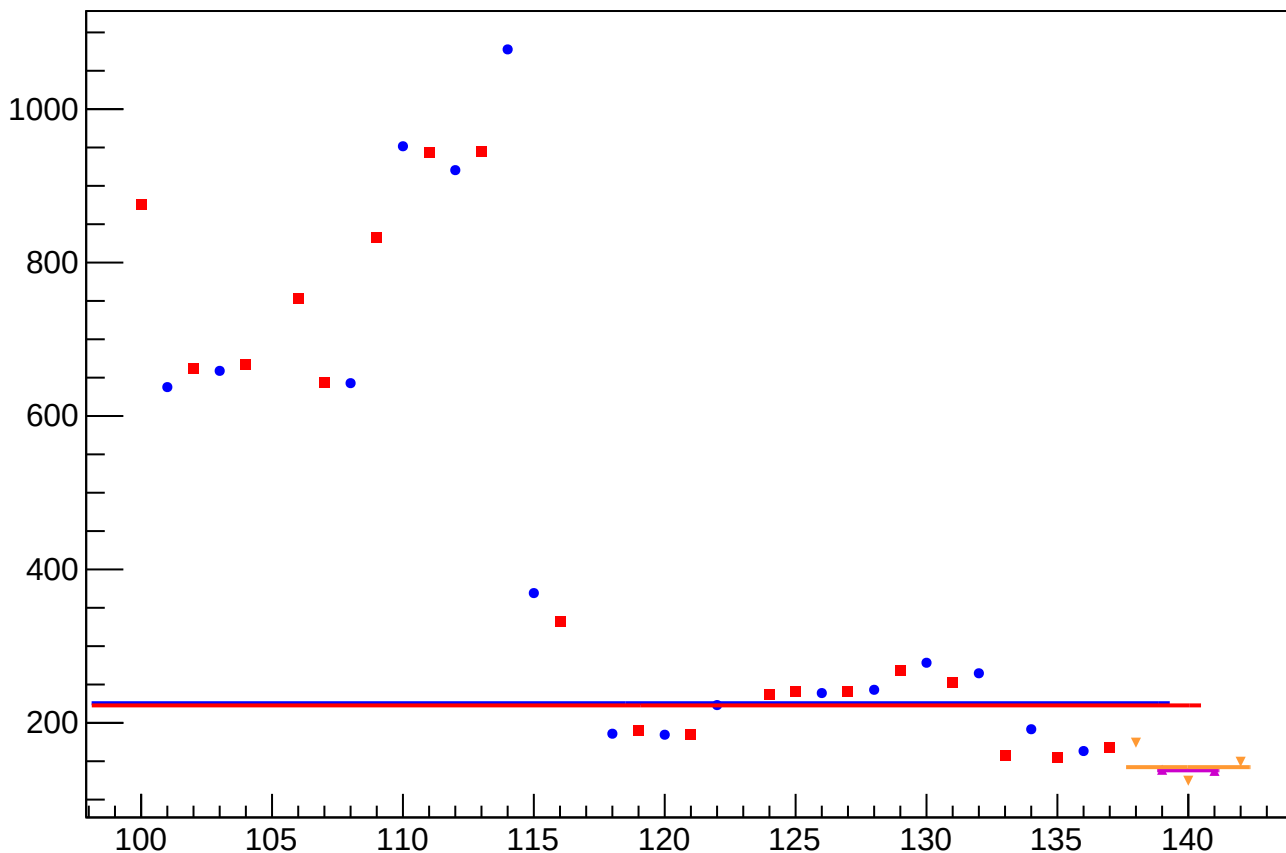
Right: 99.202+/-66.877 χ^2/NDF : 27.7/34

In: 90.513+/-70.602 χ^2/NDF : 12.1/17

Out: 58.684+/-68.869 χ^2/NDF : 18.4/21

All: 74.203+/-49.299 χ^2/NDF : 30.6/39

asym_sam_37_26_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 225.614 $\pm$ 0.067 χ^2 /NDF: 3026007.7/15

Left Out: 142.301 $\pm$ 0.071 χ^2 /NDF: 87734.3/2

Right Out: 222.786 $\pm$ 0.067 χ^2 /NDF: 3848156.1/18

Left In: 138.143 $\pm$ 0.075 χ^2 /NDF: 91.0/1

Left: 140.340 $\pm$ 0.052 χ^2 /NDF: 89444.0/4

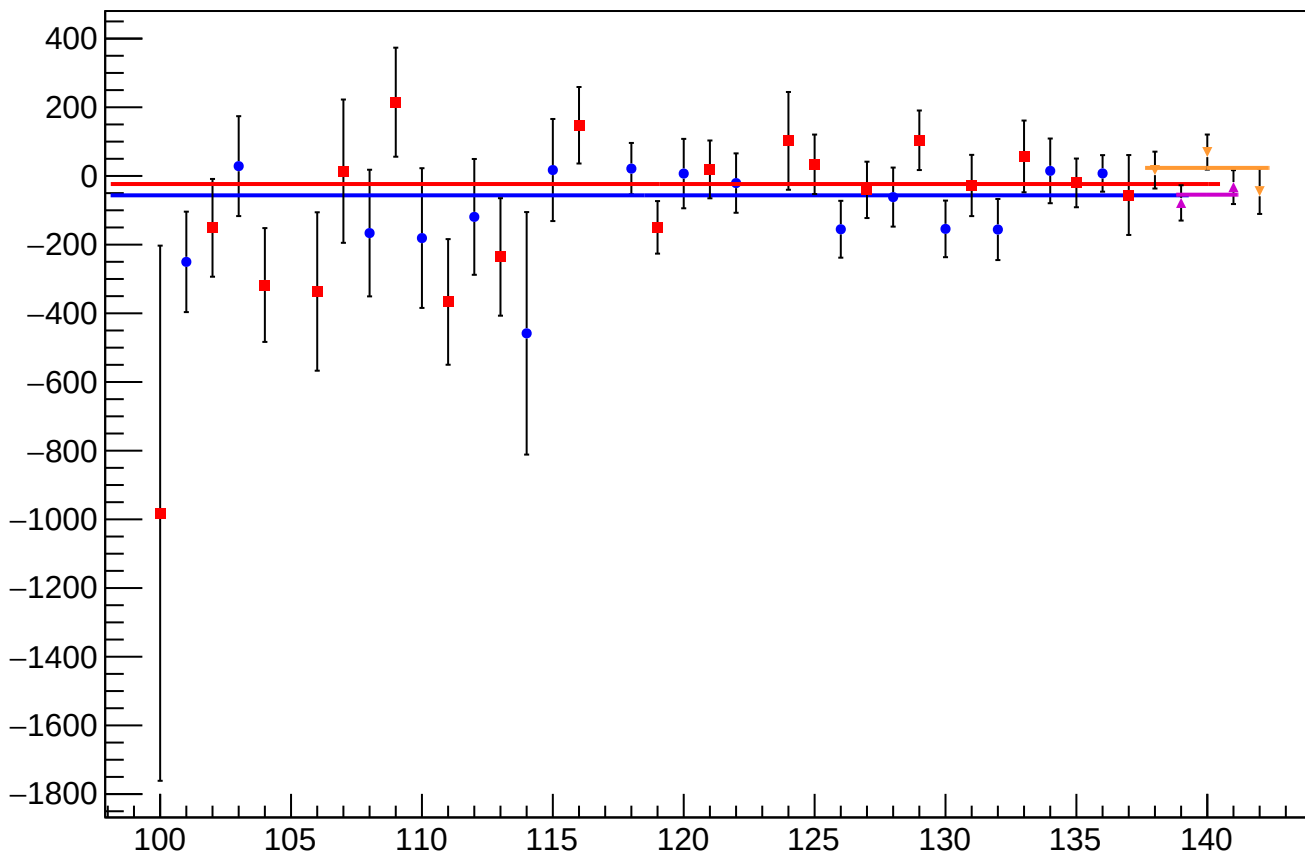
Right: 224.203 $\pm$ 0.047 χ^2 /NDF: 6875057.9/34

In: 186.976 $\pm$ 0.050 χ^2 /NDF: 3783143.6/17

Out: 184.898 $\pm$ 0.049 χ^2 /NDF: 4616443.7/21

All: 185.911 $\pm$ 0.035 χ^2 /NDF: 8400474.6/39

eigen_dit_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -56.415 ± 24.489 χ^2/NDF : 12.3/15

Left Out: 23.470 ± 32.291 χ^2/NDF : 1.9/2

Right Out: -23.498 ± 25.160 χ^2/NDF : 24.1/18

Left In: -54.532 ± 35.595 χ^2/NDF : 0.4/1

Left: -11.744 ± 23.916 χ^2/NDF : 4.9/4

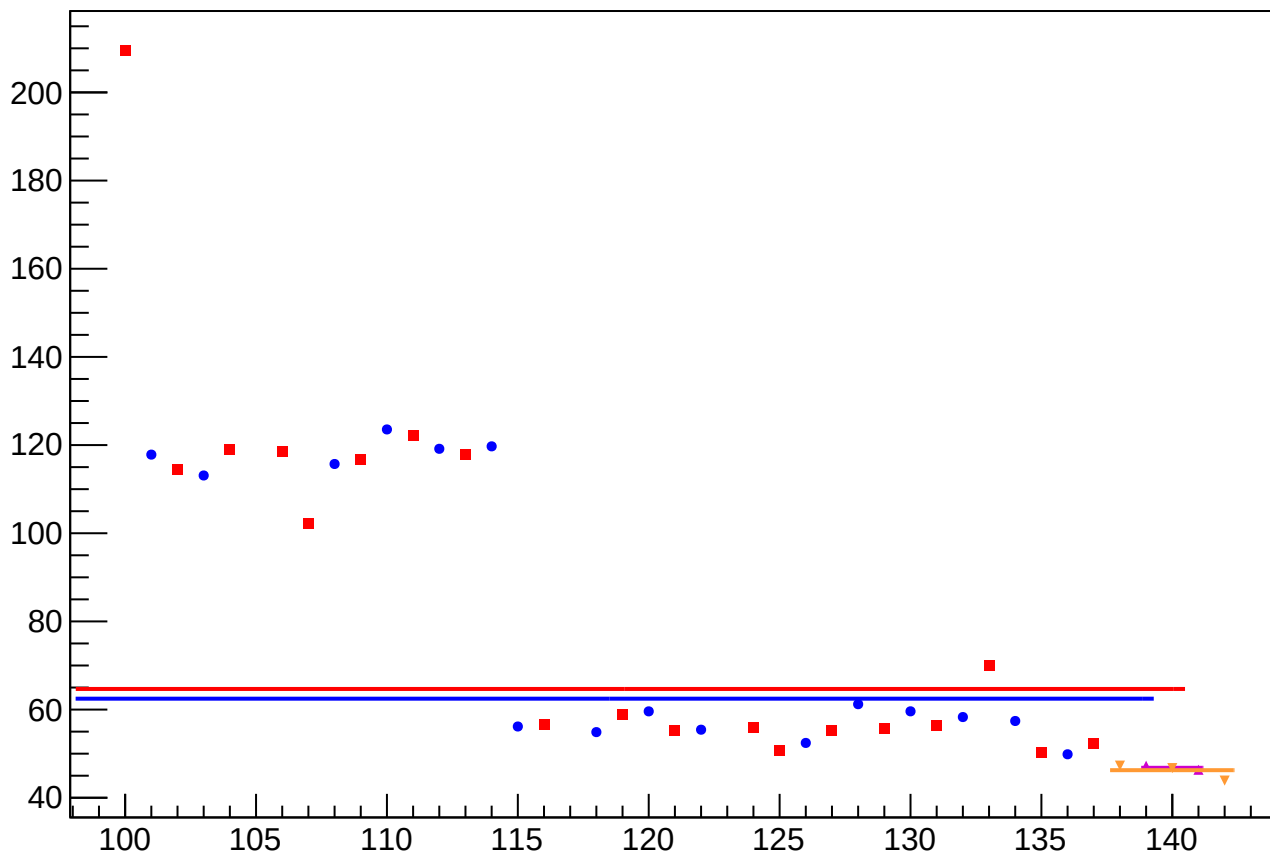
Right: -40.402 ± 17.549 χ^2/NDF : 37.2/34

In: -55.810 ± 20.175 χ^2/NDF : 12.7/17

Out: -5.755 ± 19.847 χ^2/NDF : 27.3/21

All: -30.372 ± 14.149 χ^2/NDF : 43.1/39

eigen_dit_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 62.474+/-0.017 χ^2/NDF : 1348204.7/15

Left Out: 46.254+/-0.023 χ^2/NDF : 3452.0/2

Right Out: 64.680+/-0.018 χ^2/NDF : 1590426.1/18

Left In: 46.791+/-0.025 χ^2/NDF : 327.9/1

Left: 46.497+/-0.017 χ^2/NDF : 4030.2/4

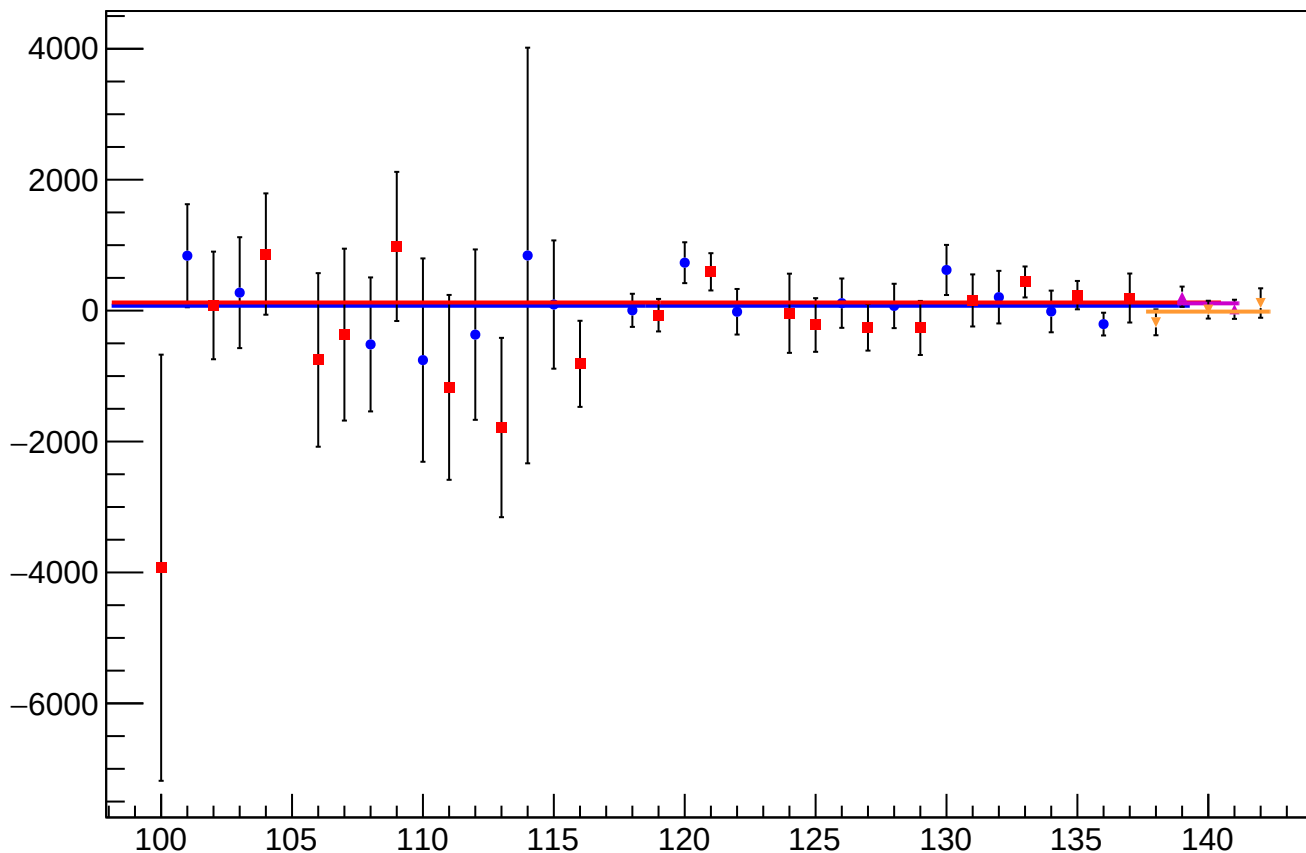
Right: 63.547+/-0.012 χ^2/NDF : 2946529.3/34

In: 57.436+/-0.014 χ^2/NDF : 1612027.4/17

Out: 57.719+/-0.014 χ^2/NDF : 1999097.4/21

All: 57.580+/-0.010 χ^2/NDF : 3611325.7/39

asym_sam_37_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 74.295+/-94.492 χ^2/NDF : 11.2/15

Left Out: -14.976+/-100.378 χ^2/NDF : 1.1/2

Right Out: 124.199+/-94.666 χ^2/NDF : 16.3/18

Left In: 111.012+/-106.229 χ^2/NDF : 0.8/1

Left: 44.452+/-72.959 χ^2/NDF : 2.6/4

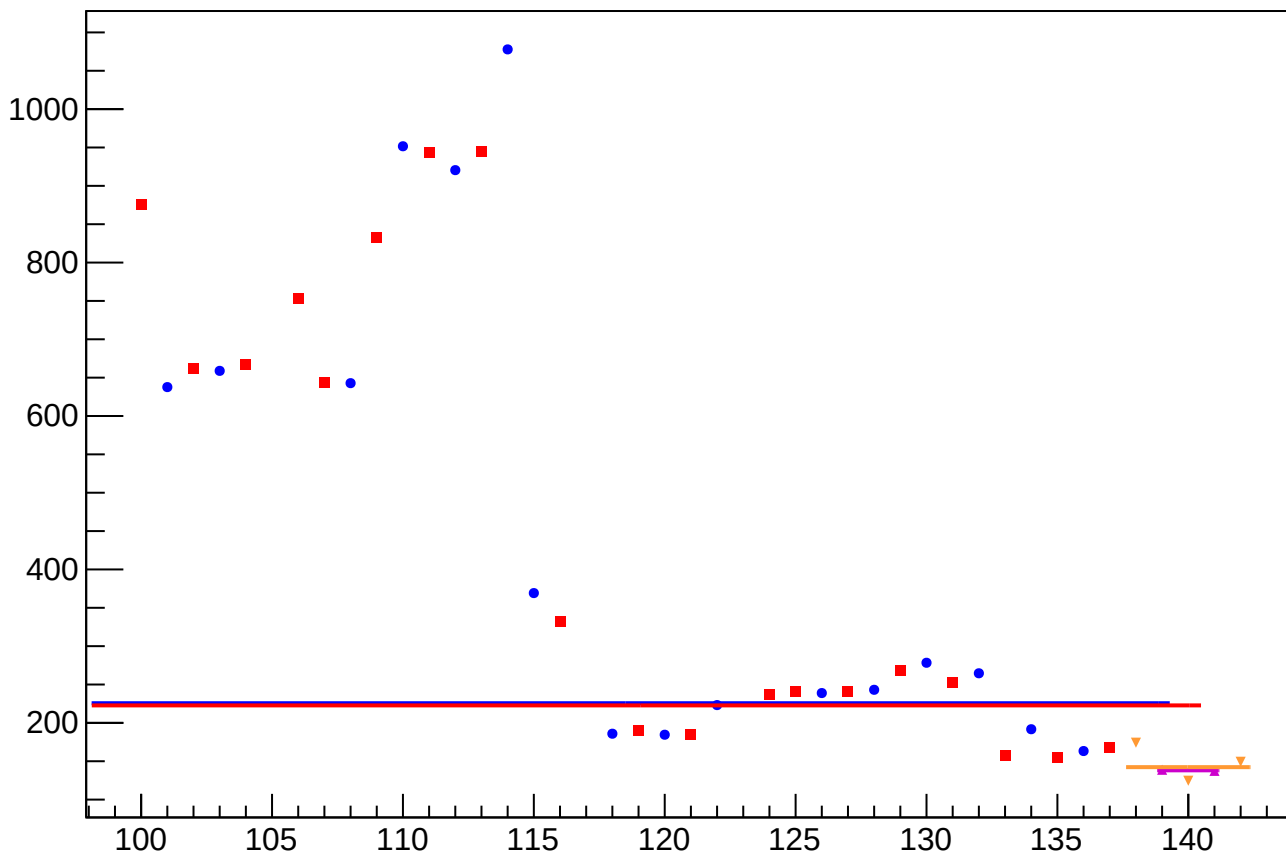
Right: 99.201+/-66.877 χ^2/NDF : 27.7/34

In: 90.514+/-70.603 χ^2/NDF : 12.1/17

Out: 58.684+/-68.870 χ^2/NDF : 18.4/21

All: 74.203+/-49.299 χ^2/NDF : 30.6/39

asym_sam_37_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 225.614 $\pm$ 0.067 χ^2 /NDF: 3025994.8/15

Left Out: 142.302 $\pm$ 0.071 χ^2 /NDF: 87734.2/2

Right Out: 222.787 $\pm$ 0.067 χ^2 /NDF: 3848136.6/18

Left In: 138.144 $\pm$ 0.075 χ^2 /NDF: 91.0/1

Left: 140.341 $\pm$ 0.052 χ^2 /NDF: 89443.9/4

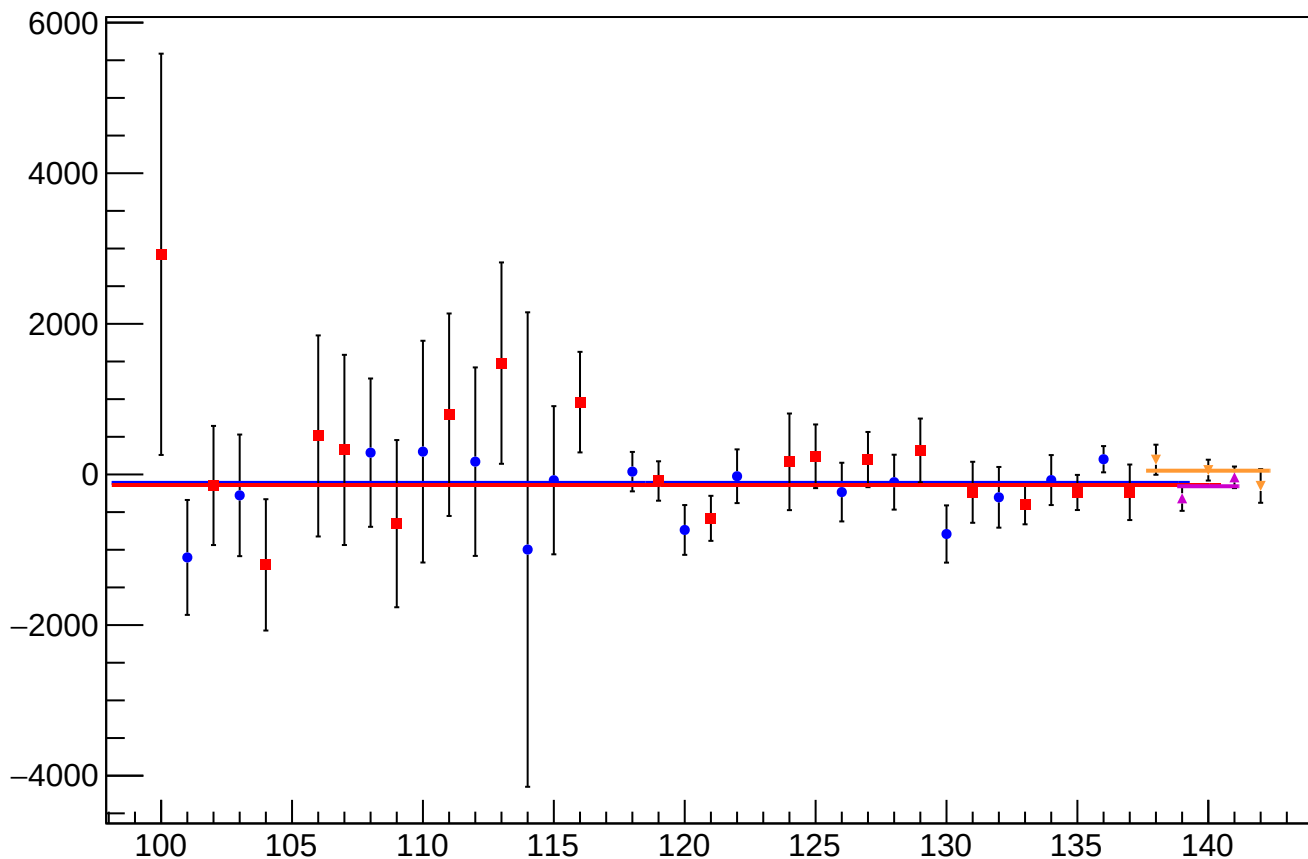
Right: 224.203 $\pm$ 0.047 χ^2 /NDF: 6875025.2/34

In: 186.976 $\pm$ 0.050 χ^2 /NDF: 3783110.3/17

Out: 184.899 $\pm$ 0.049 χ^2 /NDF: 4616409.9/21

All: 185.912 $\pm$ 0.035 χ^2 /NDF: 8400407.2/39

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -111.916+/-96.551 χ^2/NDF : 12.8/15

Left Out: 50.063+/-101.424 χ^2/NDF : 1.4/2

Right Out: -139.974+/-99.174 χ^2/NDF : 14.6/18

Left In: -156.492+/-108.676 χ^2/NDF : 1.6/1

Left: -46.094+/-74.149 χ^2/NDF : 4.9/4

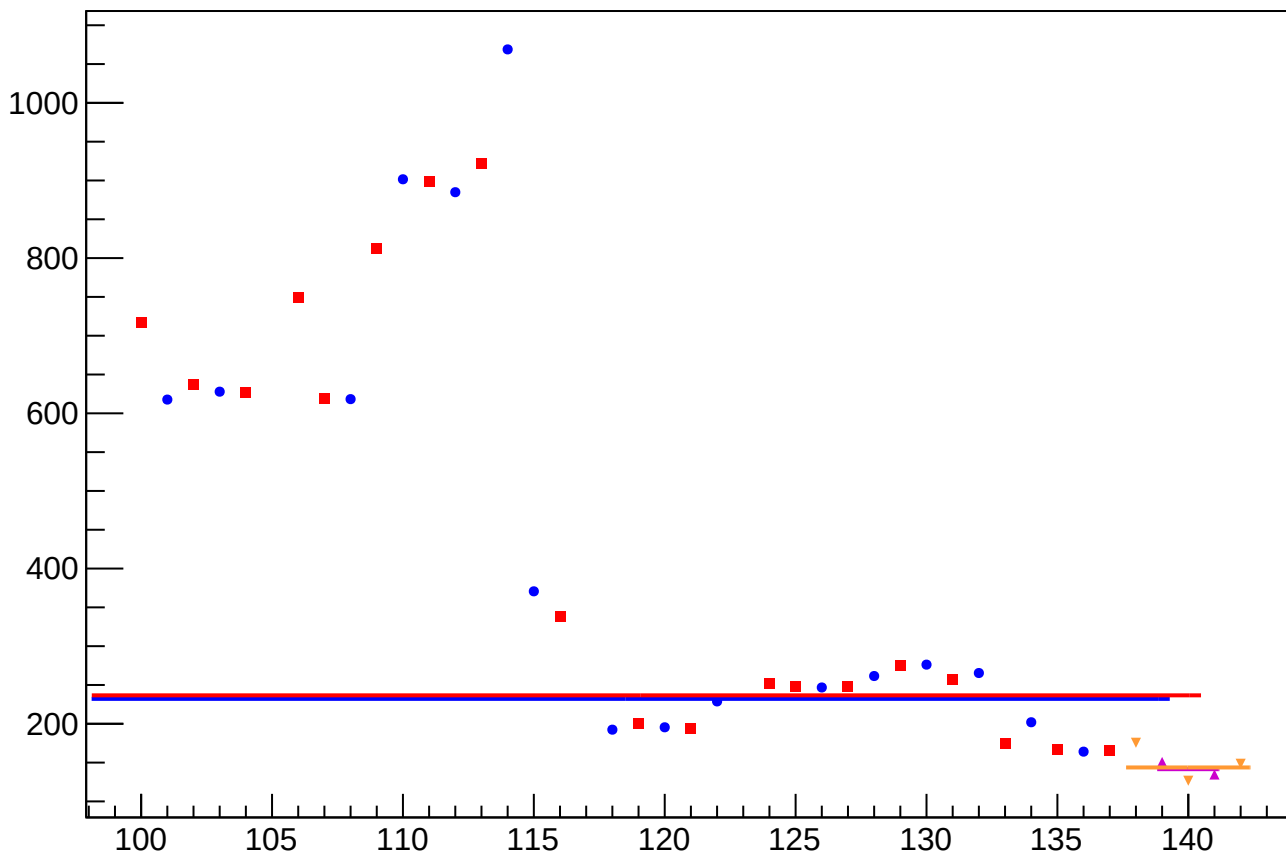
Right: -125.569+/-69.180 χ^2/NDF : 27.5/34

In: -131.579+/-72.179 χ^2/NDF : 14.5/17

Out: -47.087+/-70.909 χ^2/NDF : 17.8/21

All: -88.583+/-50.583 χ^2/NDF : 33.0/39

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 232.107 $\pm$ 0.068 χ^2 /NDF: 2885510.6/15

Left Out: 143.737 $\pm$ 0.072 χ^2 /NDF: 82177.9/2

Right Out: 236.647 $\pm$ 0.070 χ^2 /NDF: 3521033.7/18

Left In: 141.529 $\pm$ 0.077 χ^2 /NDF: 10820.3/1

Left: 142.709 $\pm$ 0.052 χ^2 /NDF: 93439.7/4

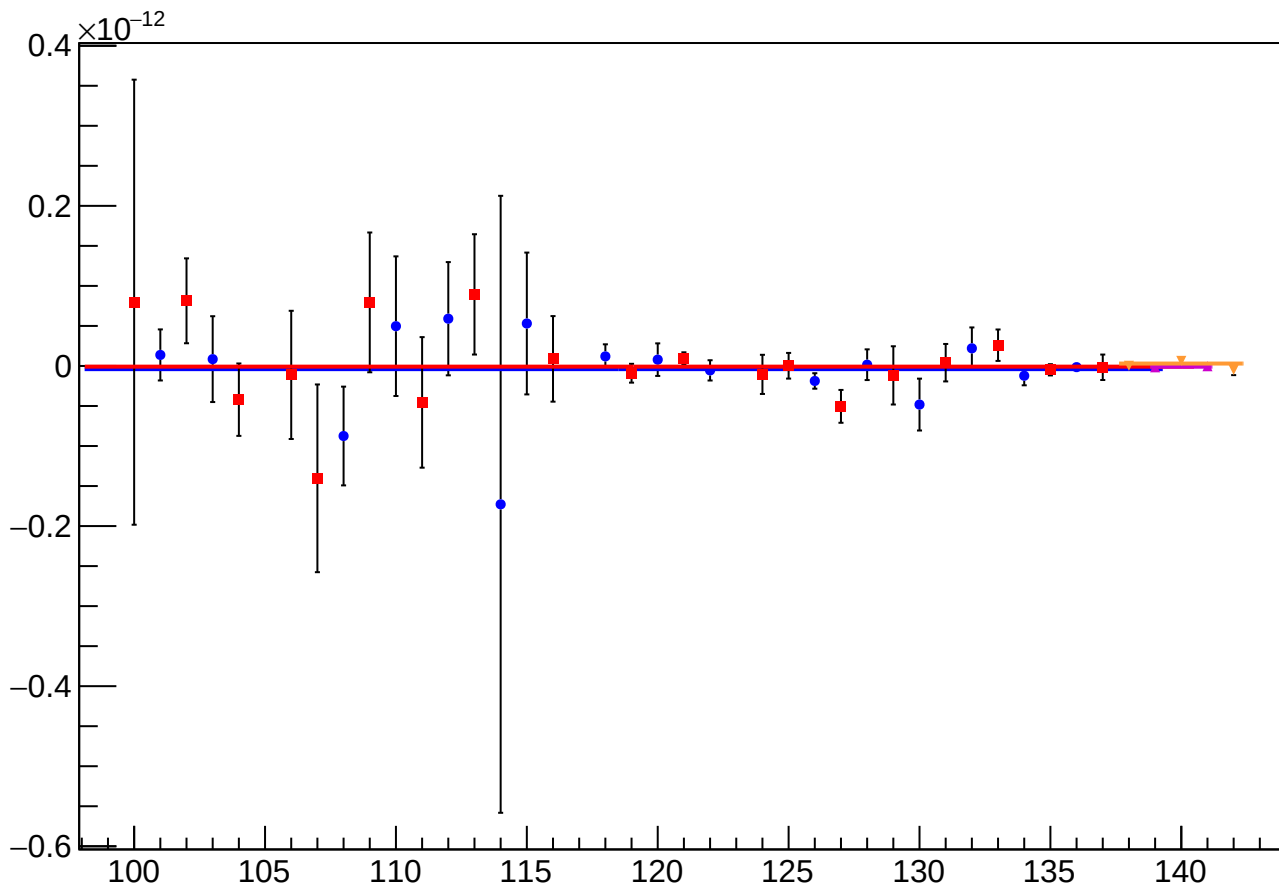
Right: 234.316 $\pm$ 0.049 χ^2 /NDF: 6408696.2/34

In: 192.151 $\pm$ 0.051 χ^2 /NDF: 3672798.9/17

Out: 191.234 $\pm$ 0.050 χ^2 /NDF: 4461183.6/21

All: 191.684 $\pm$ 0.036 χ^2 /NDF: 8134146.6/39

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 11.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2.5/2

Right Out: -0.000+/-0.000 χ^2/NDF : 18.1/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.0/1

Left: 0.000+/-0.000 χ^2/NDF : 3.4/4

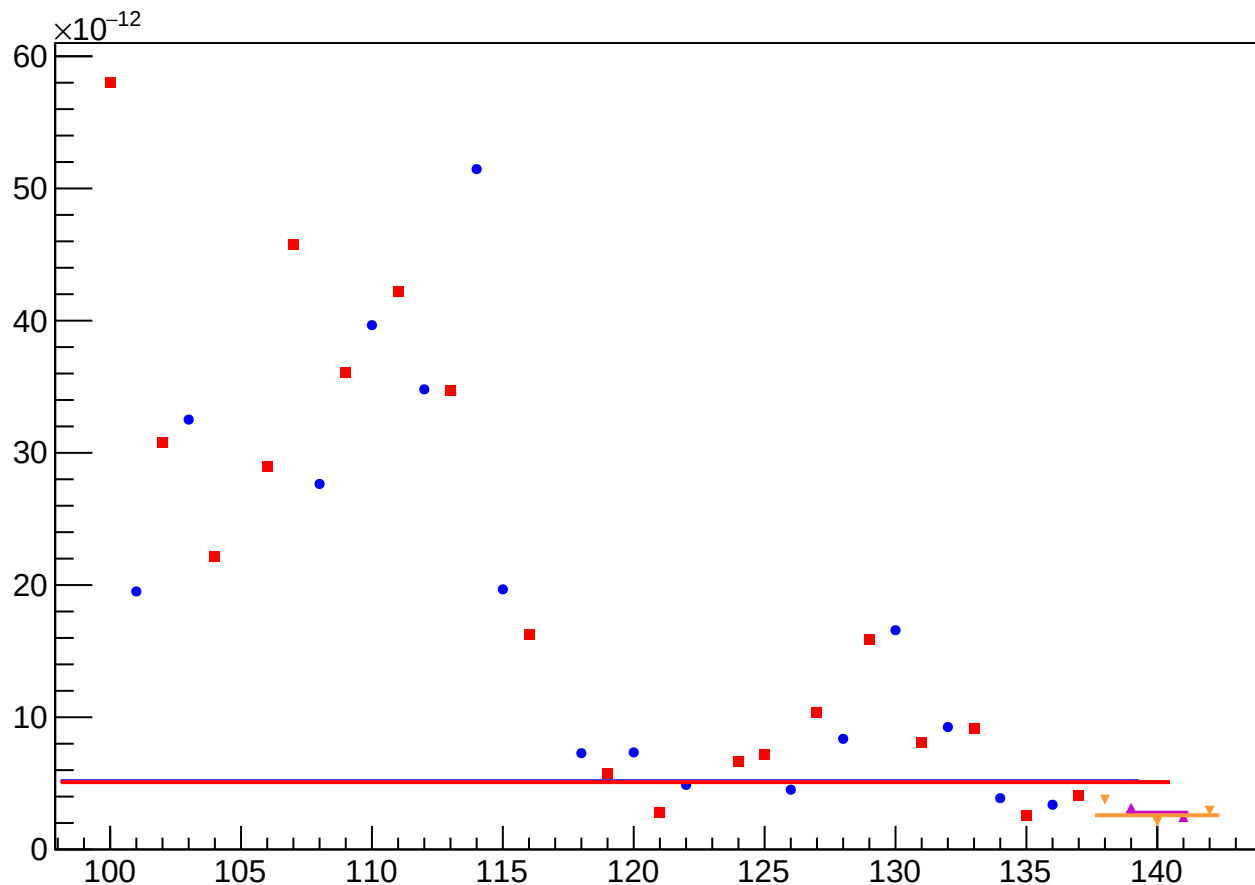
Right: -0.000+/-0.000 χ^2/NDF : 29.8/34

In: -0.000+/-0.000 χ^2/NDF : 11.8/17

Out: 0.000+/-0.000 χ^2/NDF : 21.2/21

All: -0.000+/-0.000 χ^2/NDF : 34.5/39

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2618432.0/15

Left Out: 0.000+/-0.000 χ^2/NDF :115307.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3236196.8/18

Left In: 0.000+/-0.000 χ^2/NDF :20683.4/1

Left: 0.000+/-0.000 χ^2/NDF : 139704.8/4

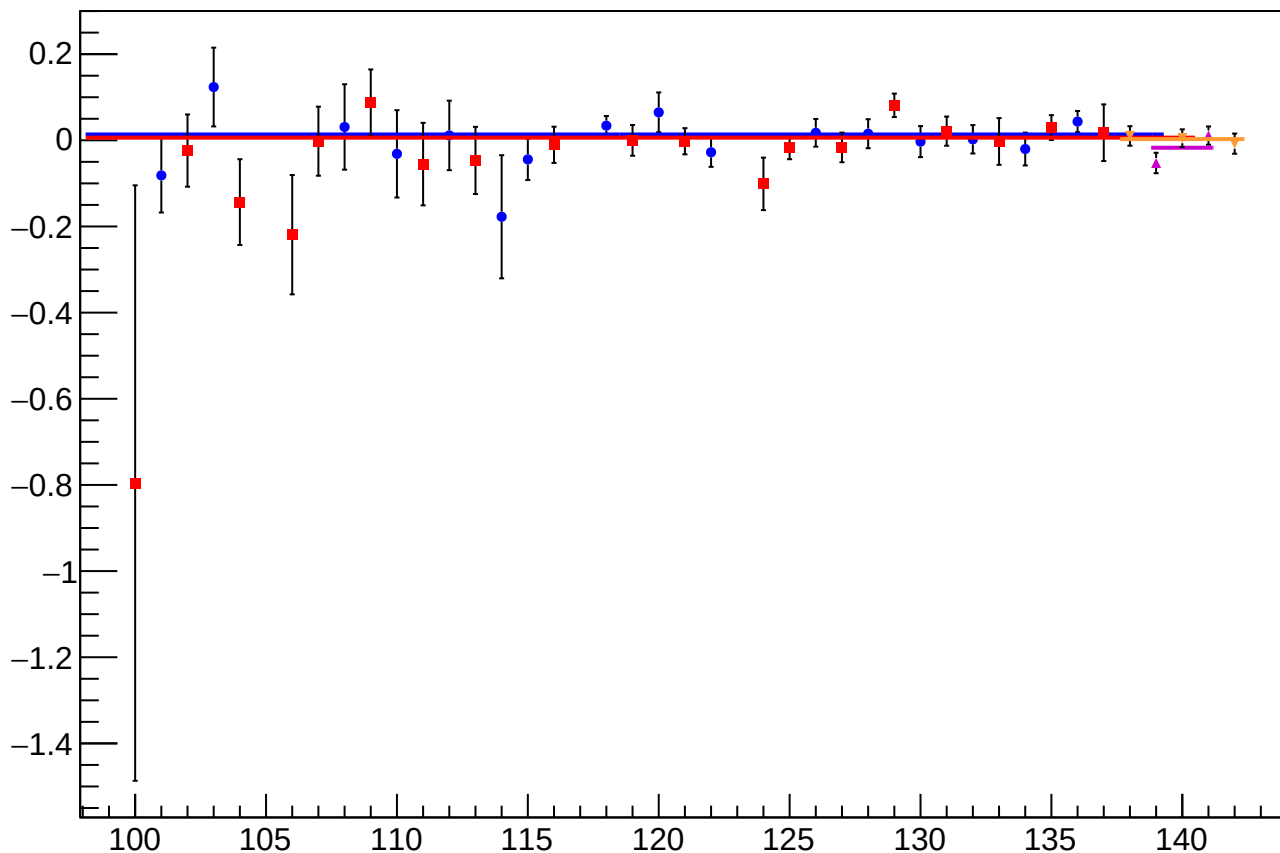
Right: 0.000+/-0.000 χ^2/NDF : 5854929.1/34

In: 0.000+/-0.000 χ^2/NDF :3090062.4/17

Out: 0.000+/-0.000 χ^2/NDF :3887628.6/21

All: 0.000+/-0.000 χ^2/NDF : 7015294.9/39

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.010 χ^2 /NDF: 12.3/15

Left Out: 0.003 $\pm$ 0.013 χ^2 /NDF:0.3/2

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: -0.017 $\pm$ 0.016 χ^2 /NDF:4.0/1

Left: -0.005 $\pm$ 0.010 χ^2 /NDF: 5.3/4

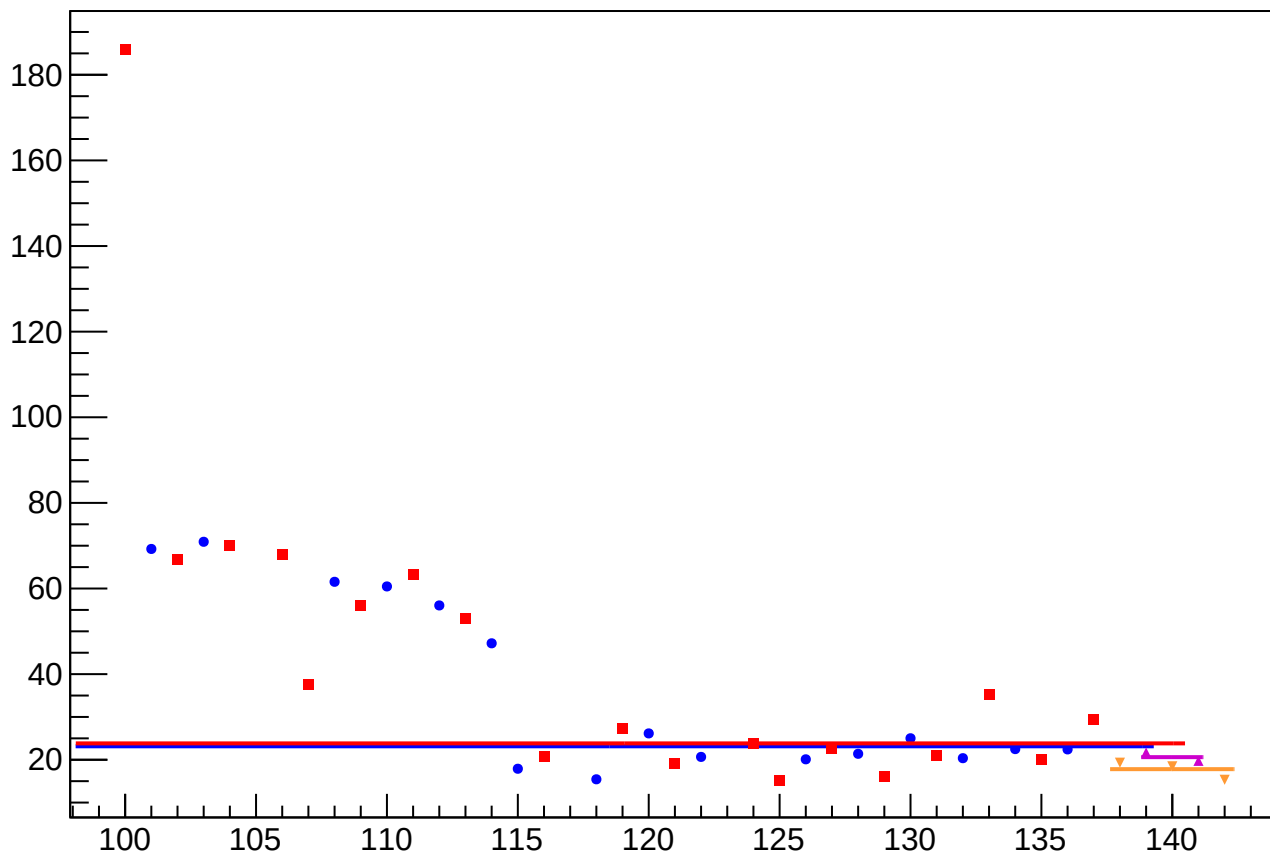
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.005 $\pm$ 0.008 χ^2 /NDF:19.0/17

Out: 0.005 $\pm$ 0.008 χ^2 /NDF:21.8/21

All: 0.005 $\pm$ 0.006 χ^2 /NDF: 40.9/39

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.145+/-0.007 χ^2/NDF : 2406426.8/15

Left Out: 17.806+/-0.009 χ^2/NDF :33427.4/2

Right Out: 23.825+/-0.007 χ^2/NDF : 2898916.7/18

Left In: 20.611+/-0.011 χ^2/NDF :7517.0/1

Left: 18.911+/-0.007 χ^2/NDF : 79065.4/4

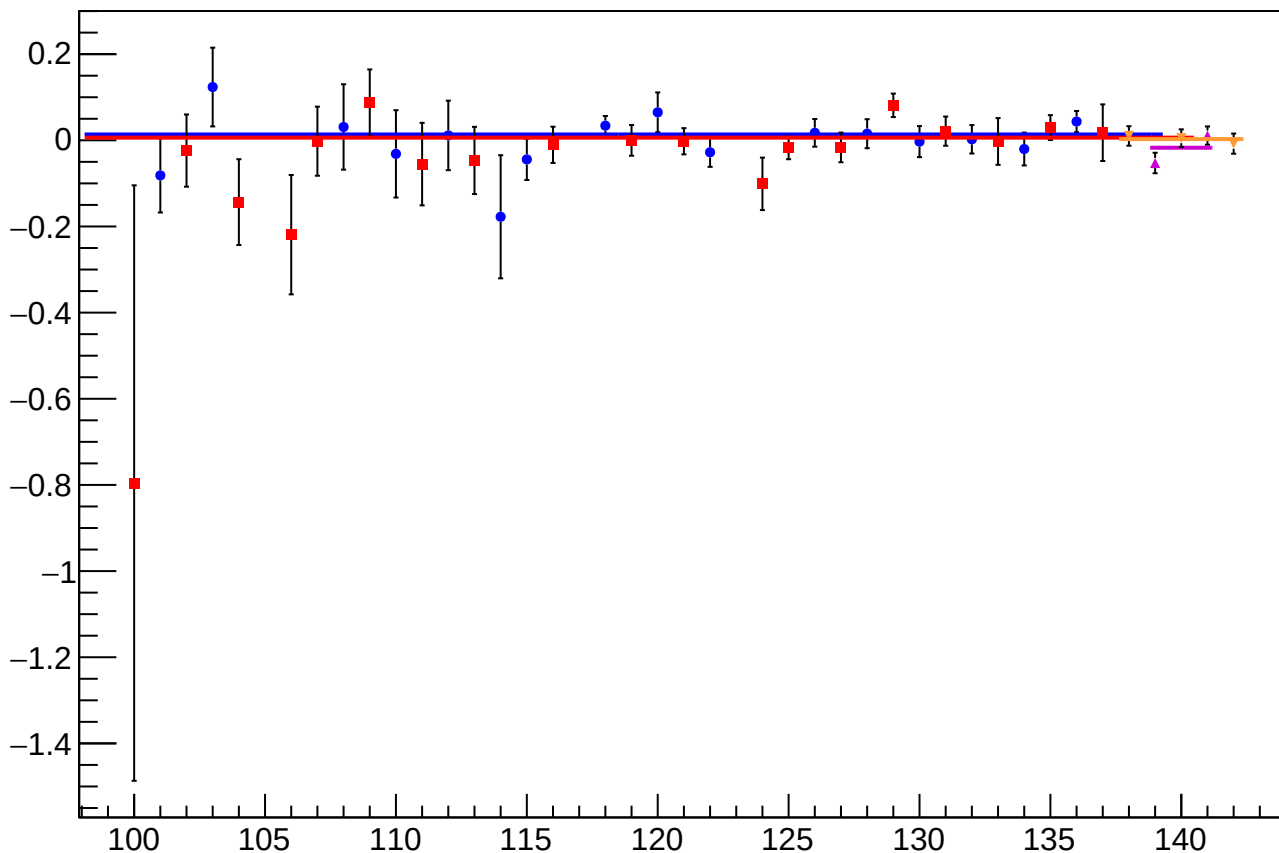
Right: 23.477+/-0.005 χ^2/NDF : 5310004.0/34

In: 22.438+/-0.006 χ^2/NDF :2450911.7/17

Out: 21.514+/-0.006 χ^2/NDF :3206790.9/21

All: 21.950+/-0.004 χ^2/NDF : 5670598.2/39

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.010 χ^2 /NDF: 12.3/15

Left Out: 0.003 $\pm$ 0.013 χ^2 /NDF:0.3/2

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: -0.017 $\pm$ 0.016 χ^2 /NDF:4.0/1

Left: -0.005 $\pm$ 0.010 χ^2 /NDF: 5.3/4

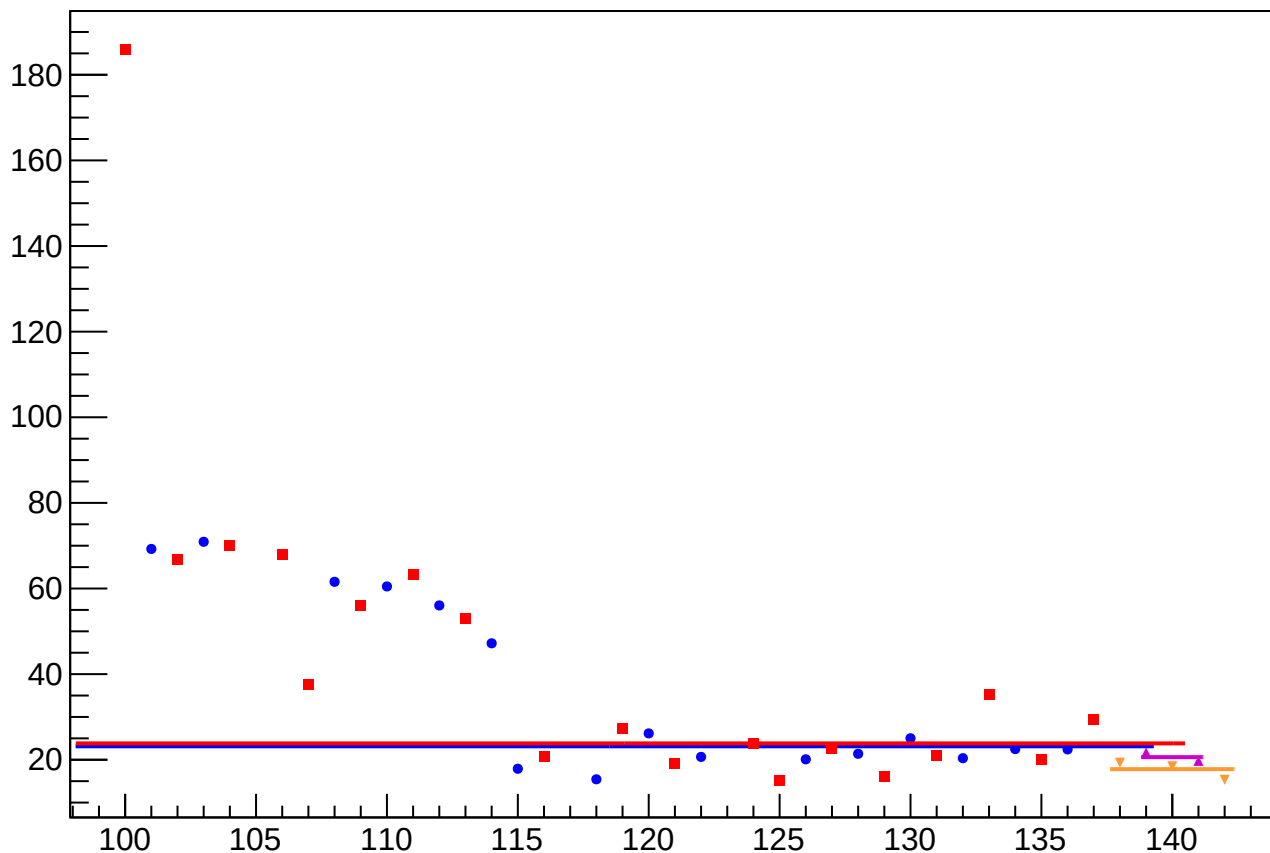
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.005 $\pm$ 0.008 χ^2 /NDF:19.0/17

Out: 0.005 $\pm$ 0.008 χ^2 /NDF:21.8/21

All: 0.005 $\pm$ 0.006 χ^2 /NDF: 40.9/39

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.145+/-0.007 χ^2/NDF : 2406426.8/15

Left Out: 17.806+/-0.009 χ^2/NDF :33427.4/2

Right Out: 23.825+/-0.007 χ^2/NDF : 2898916.7/18

Left In: 20.611+/-0.011 χ^2/NDF :7517.0/1

Left: 18.911+/-0.007 χ^2/NDF : 79065.4/4

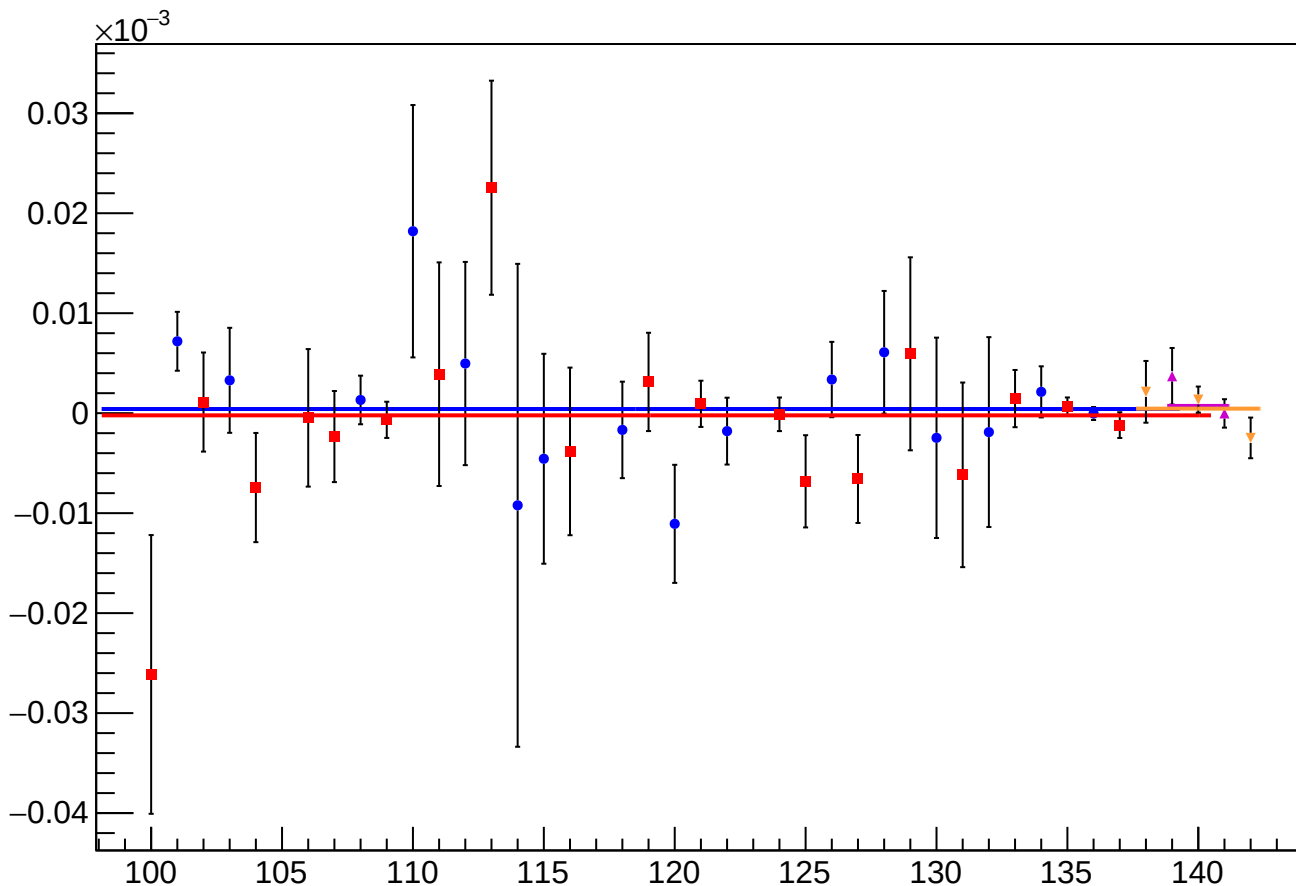
Right: 23.477+/-0.005 χ^2/NDF : 5310004.0/34

In: 22.438+/-0.006 χ^2/NDF :2450911.7/17

Out: 21.514+/-0.006 χ^2/NDF :3206790.9/21

All: 21.950+/-0.004 χ^2/NDF : 5670598.2/39

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 15.3/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 2.8/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 17.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 1.4/1

Left: 0.000 ± 0.000 χ^2/NDF : 4.3/4

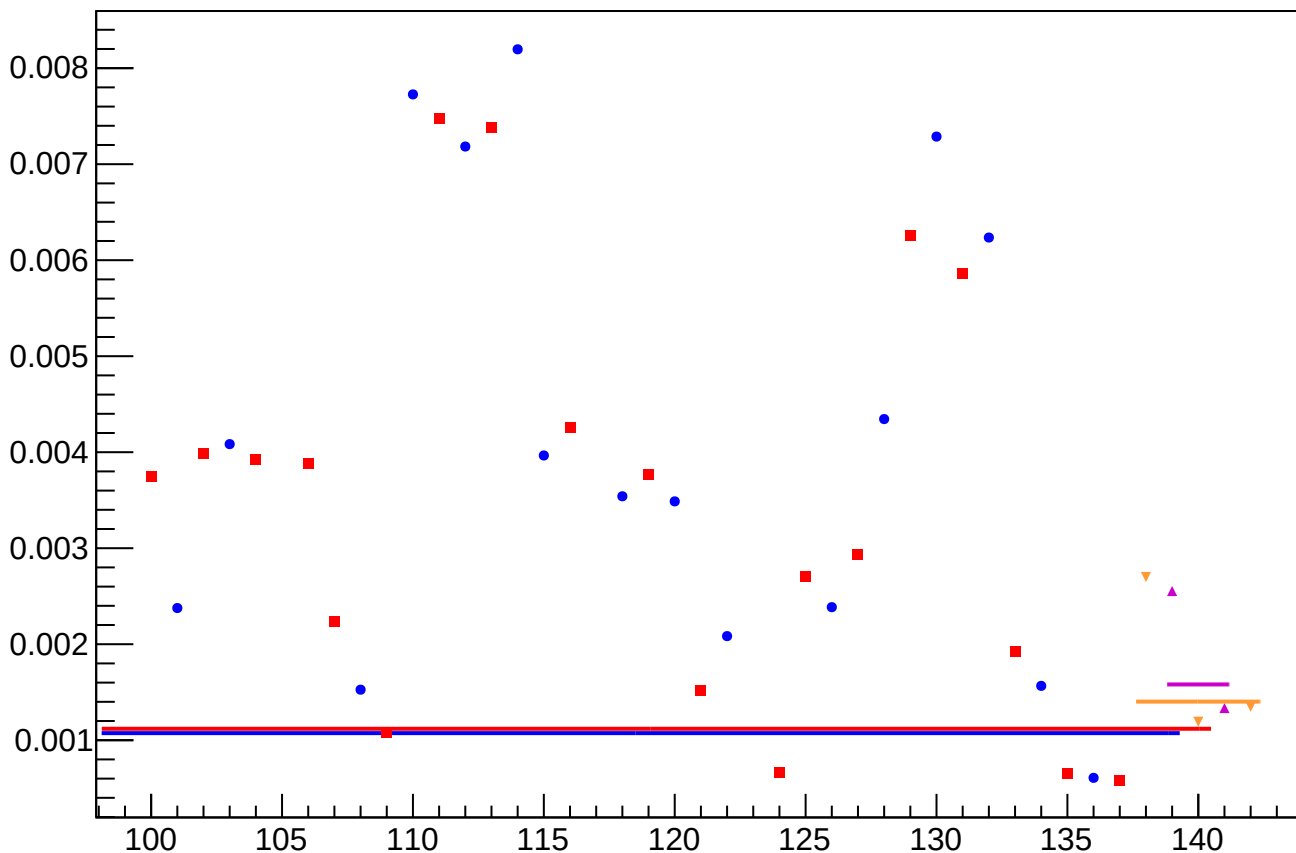
Right: 0.000 ± 0.000 χ^2/NDF : 33.8/34

In: 0.000 ± 0.000 χ^2/NDF : 16.7/17

Out: -0.000 ± 0.000 χ^2/NDF : 21.1/21

All: 0.000 ± 0.000 χ^2/NDF : 38.3/39

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 7045313.7/15

Left Out: 0.001+/-0.000

χ^2/NDF : 406340.2/2

Right Out: 0.001+/-0.000

χ^2/NDF : 6796343.2/18

Left In: 0.002+/-0.000

χ^2/NDF : 296280.1/1

Left: 0.001+/-0.000

χ^2/NDF : 726440.5/4

Right: 0.001+/-0.000

χ^2/NDF : 13848160.8/34

In: 0.001+/-0.000

χ^2/NDF : 7608378.7/17

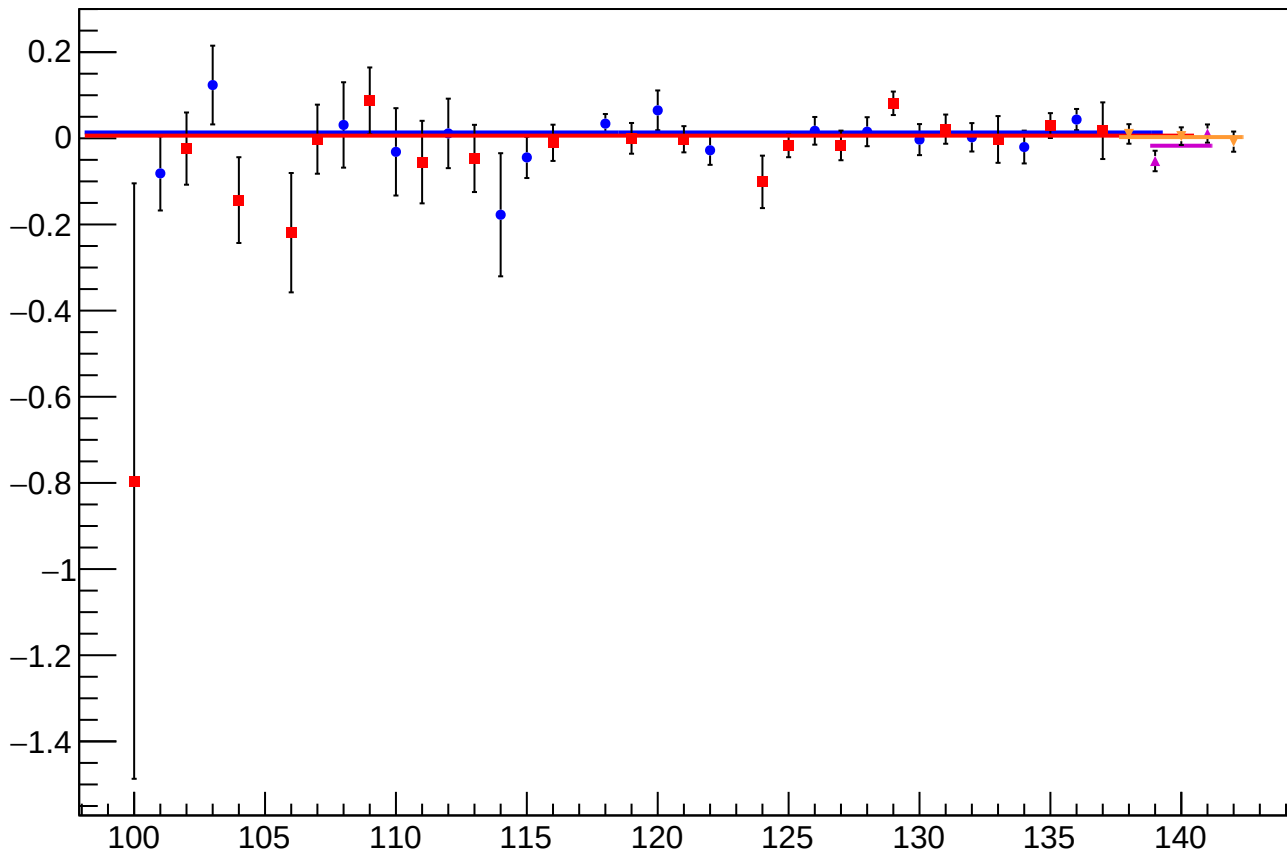
Out: 0.001+/-0.000

χ^2/NDF : 7317504.7/21

All: 0.001+/-0.000

χ^2/NDF : 14929005.9/39

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.010 χ^2 /NDF: 12.3/15

Left Out: 0.003 $\pm$ 0.013 χ^2 /NDF:0.3/2

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: -0.017 $\pm$ 0.016 χ^2 /NDF:4.0/1

Left: -0.005 $\pm$ 0.010 χ^2 /NDF: 5.3/4

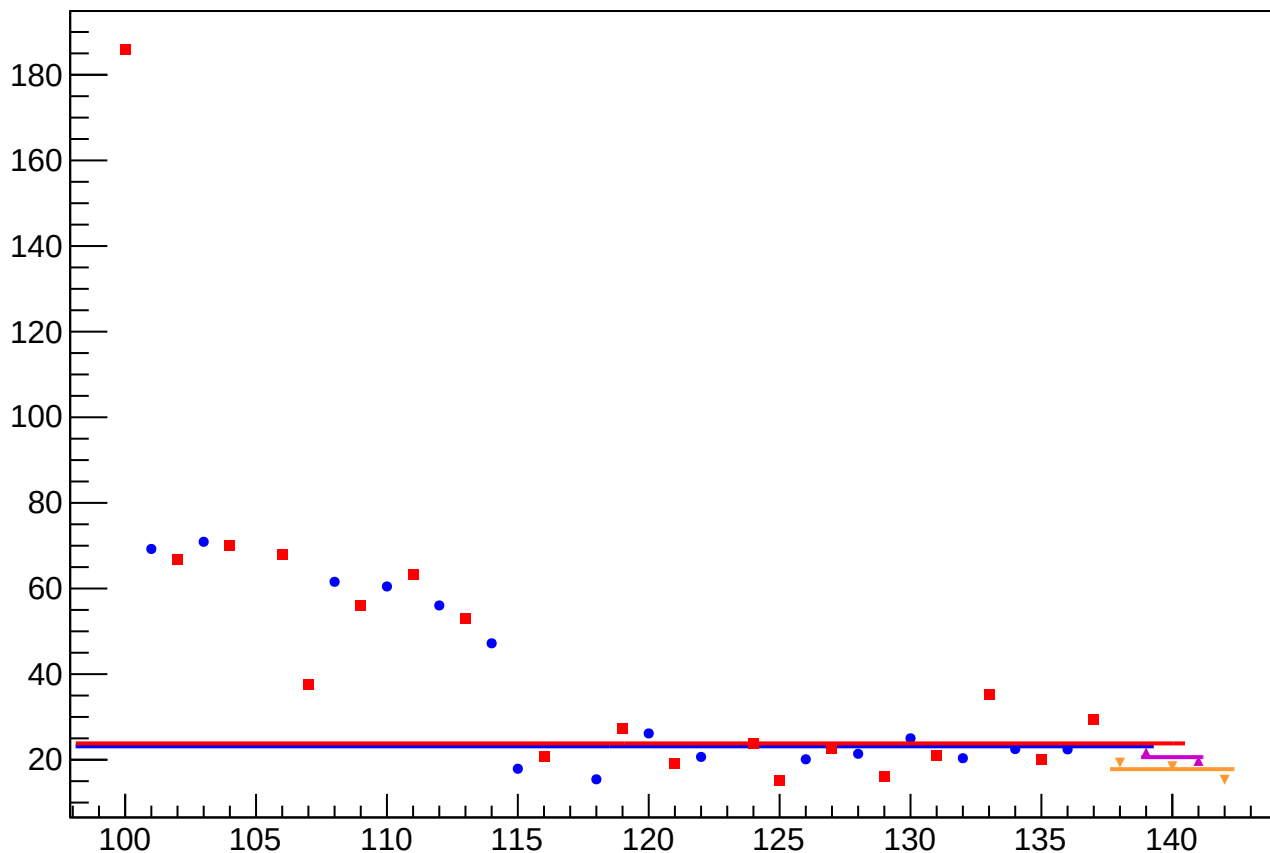
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.005 $\pm$ 0.008 χ^2 /NDF:19.0/17

Out: 0.005 $\pm$ 0.008 χ^2 /NDF:21.8/21

All: 0.005 $\pm$ 0.006 χ^2 /NDF: 40.9/39

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.144+/-0.007 χ^2/NDF : 2406451.1/15

Left Out: 17.807+/-0.009 χ^2/NDF : 33422.1/2

Right Out: 23.824+/-0.007 χ^2/NDF : 2898863.9/18

Left In: 20.612+/-0.011 χ^2/NDF : 7505.5/1

Left: 18.911+/-0.007 χ^2/NDF : 79039.9/4

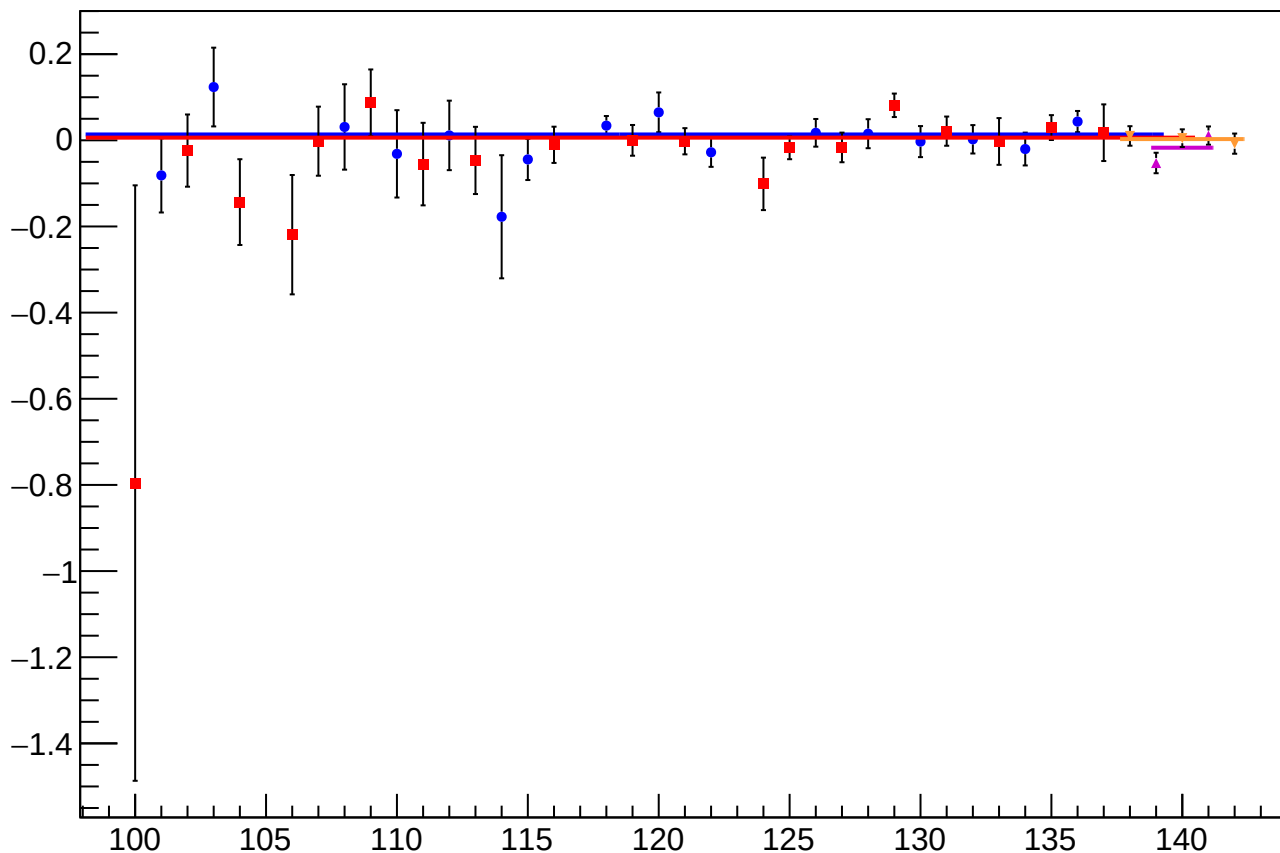
Right: 23.476+/-0.005 χ^2/NDF : 5309985.6/34

In: 22.437+/-0.006 χ^2/NDF : 2450879.5/17

Out: 21.514+/-0.006 χ^2/NDF : 3206626.8/21

All: 21.949+/-0.004 χ^2/NDF : 5670380.6/39

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.010 χ^2 /NDF: 12.3/15

Left Out: 0.003 $\pm$ 0.013 χ^2 /NDF:0.3/2

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: -0.017 $\pm$ 0.016 χ^2 /NDF:4.0/1

Left: -0.005 $\pm$ 0.010 χ^2 /NDF: 5.3/4

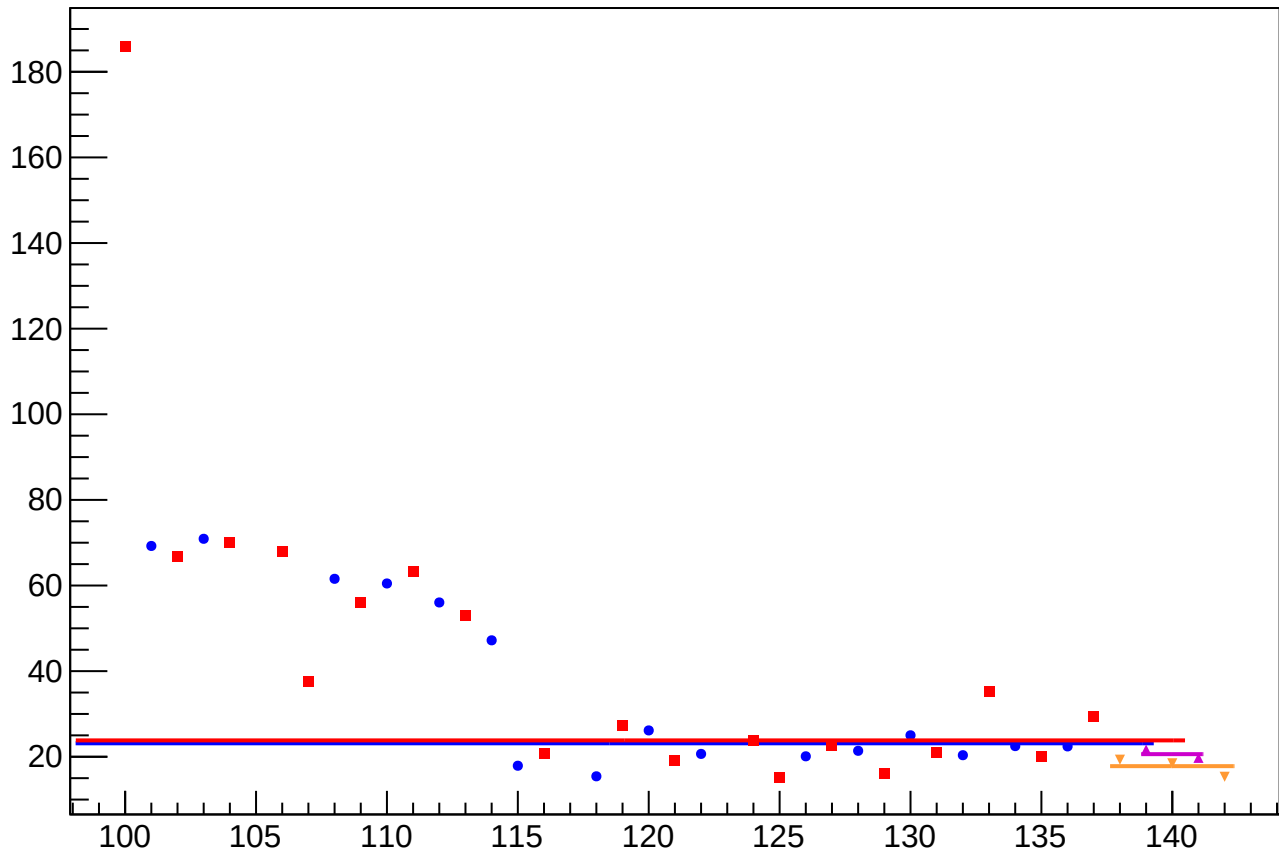
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.005 $\pm$ 0.008 χ^2 /NDF:19.0/17

Out: 0.005 $\pm$ 0.008 χ^2 /NDF:21.8/21

All: 0.005 $\pm$ 0.006 χ^2 /NDF: 40.9/39

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.144+/-0.007 χ^2/NDF : 2406451.1/15

Left Out: 17.807+/-0.009 χ^2/NDF : 33422.1/2

Right Out: 23.824+/-0.007 χ^2/NDF : 2898863.9/18

Left In: 20.612+/-0.011 χ^2/NDF : 7505.5/1

Left: 18.911+/-0.007 χ^2/NDF : 79039.9/4

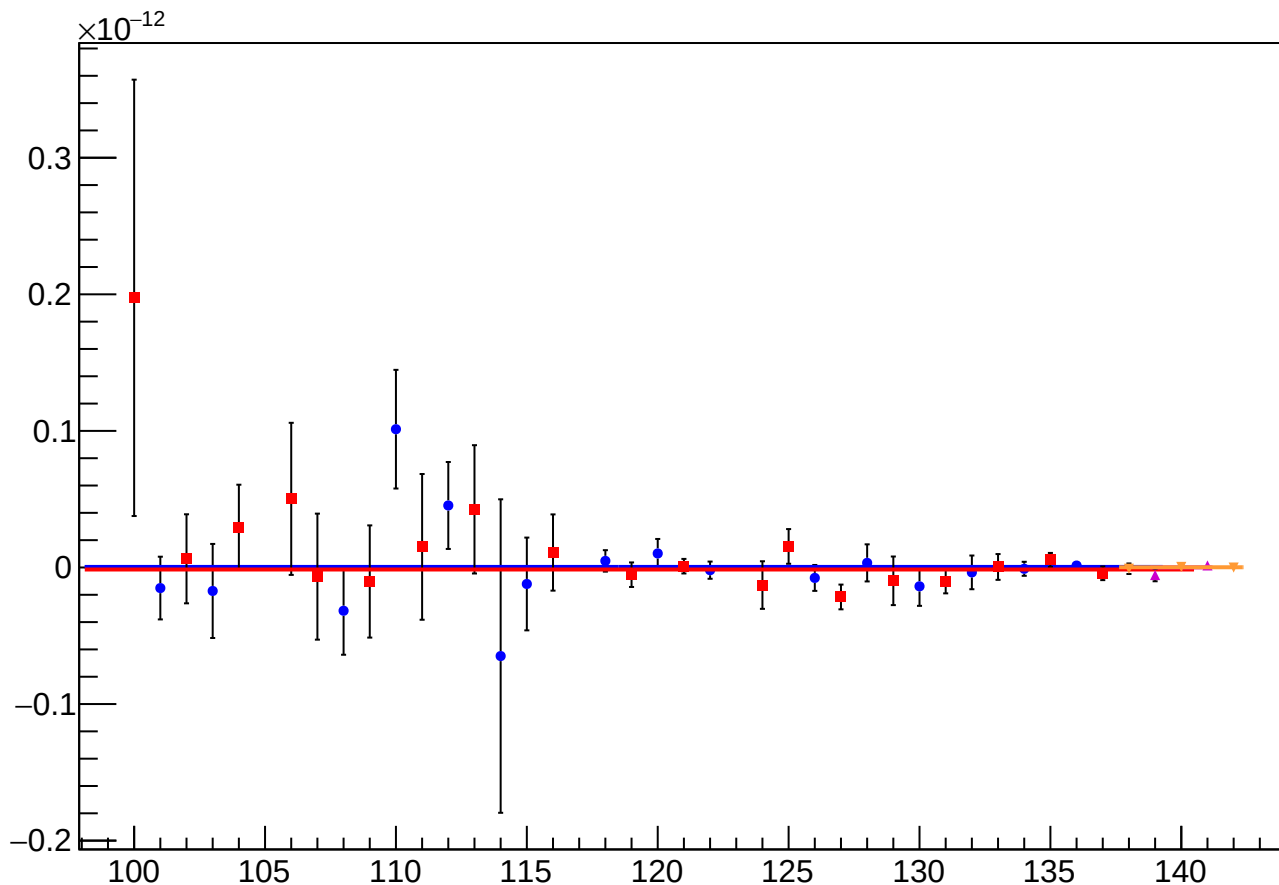
Right: 23.476+/-0.005 χ^2/NDF : 5309985.6/34

In: 22.437+/-0.006 χ^2/NDF : 2450879.5/17

Out: 21.514+/-0.006 χ^2/NDF : 3206626.8/21

All: 21.949+/-0.004 χ^2/NDF : 5670380.6/39

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.1/2

Right Out: -0.000+/-0.000 χ^2/NDF : 15.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 1.9/1

Left: 0.000+/-0.000 χ^2/NDF : 2.0/4

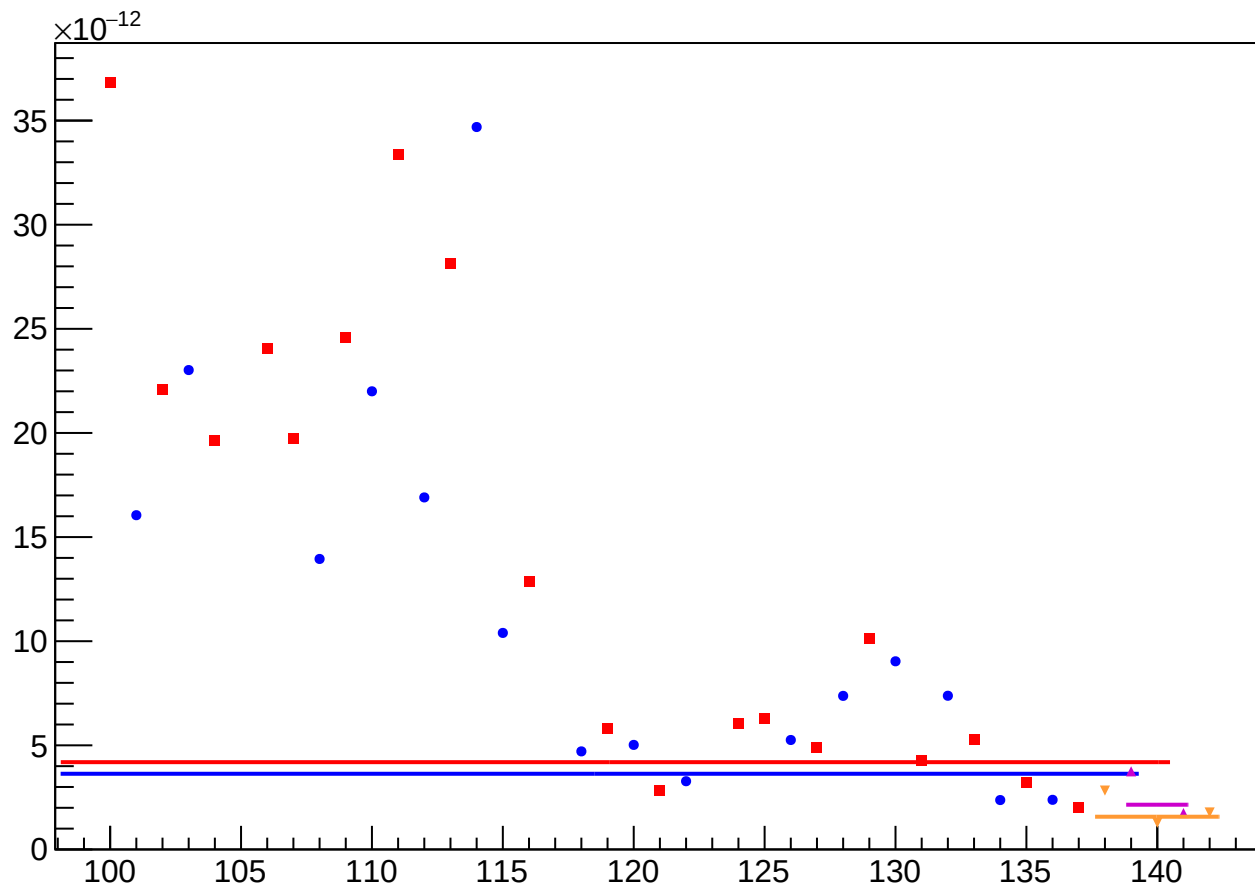
Right: -0.000+/-0.000 χ^2/NDF : 28.9/34

In: 0.000+/-0.000 χ^2/NDF : 14.8/17

Out: -0.000+/-0.000 χ^2/NDF : 16.1/21

All: -0.000+/-0.000 χ^2/NDF : 31.0/39

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3590314.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 278931.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 4454808.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 308072.9/1

Left: 0.000+/-0.000 χ^2/NDF : 694915.1/4

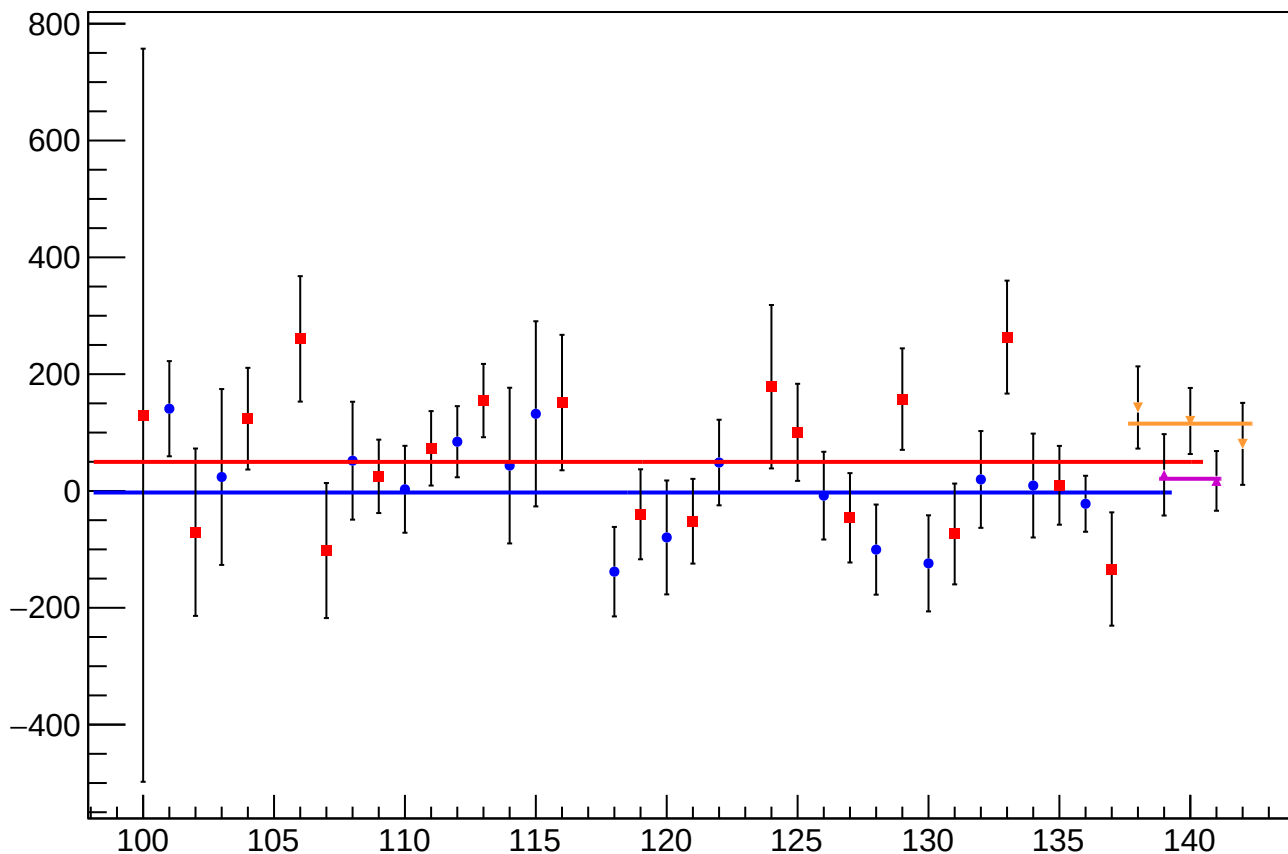
Right: 0.000+/-0.000 χ^2/NDF : 8108622.5/34

In: 0.000+/-0.000 χ^2/NDF : 4425885.5/17

Out: 0.000+/-0.000 χ^2/NDF : 6549138.5/21

All: 0.000+/-0.000 χ^2/NDF : 11188974.3/39

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.614 ± 19.994 $\chi^2/\text{NDF}: 14.6/15$

Left Out: 115.268 ± 37.337 $\chi^2/\text{NDF}: 0.4/2$

Right Out: 49.810 ± 19.621 $\chi^2/\text{NDF}: 29.4/18$

Left In: 20.909 ± 41.210 $\chi^2/\text{NDF}: 0.0/1$

Left: 72.730 ± 27.670 $\chi^2/\text{NDF}: 3.3/4$

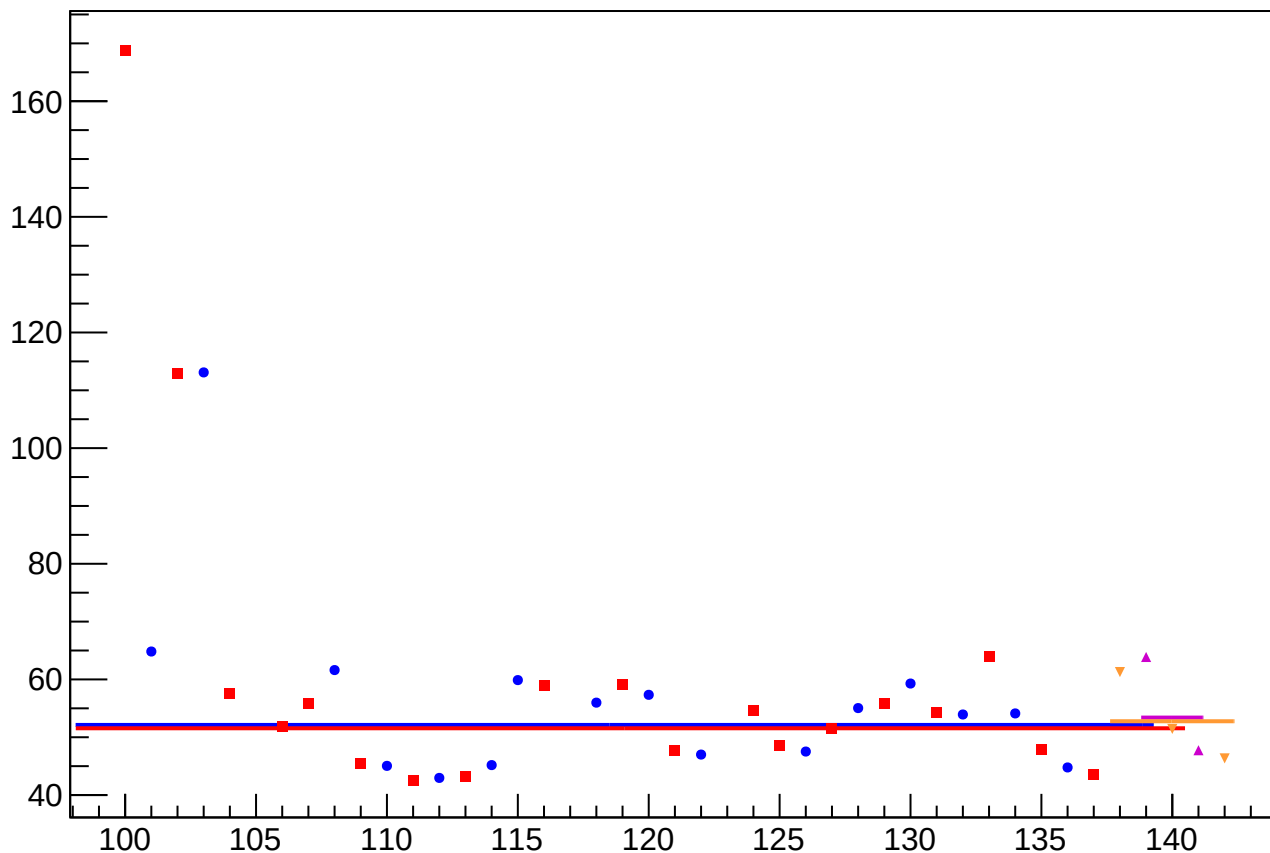
Right: 24.091 ± 14.004 $\chi^2/\text{NDF}: 47.4/34$

In: 1.868 ± 17.989 $\chi^2/\text{NDF}: 14.9/17$

Out: 63.975 ± 17.369 $\chi^2/\text{NDF}: 32.2/21$

All: 34.010 ± 12.495 $\chi^2/\text{NDF}: 53.2/39$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 52.128 $\pm$ 0.014 χ^2 /NDF: 562918.0/15

Left Out: 52.765 $\pm$ 0.026 χ^2 /NDF: 47079.4/2

Right Out: 51.550 $\pm$ 0.014 χ^2 /NDF: 639564.9/18

Left In: 53.398 $\pm$ 0.029 χ^2 /NDF: 69694.7/1

Left: 53.050 $\pm$ 0.020 χ^2 /NDF: 117033.3/4

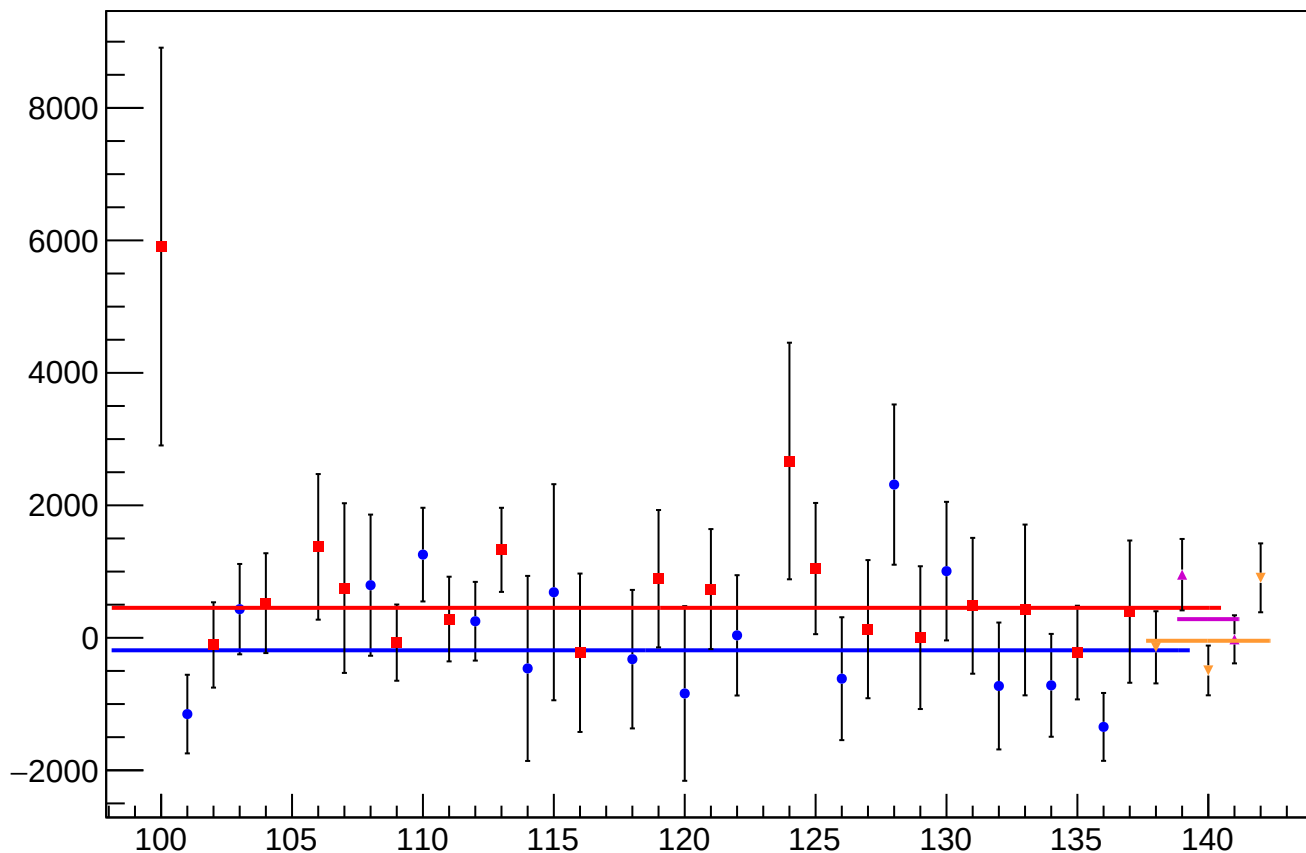
Right: 51.834 $\pm$ 0.010 χ^2 /NDF: 1203336.1/34

In: 52.370 $\pm$ 0.013 χ^2 /NDF: 634148.4/17

Out: 51.813 $\pm$ 0.012 χ^2 /NDF: 688303.3/21

All: 52.082 $\pm$ 0.009 χ^2 /NDF: 1323446.1/39

asym_sam_1357_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -188.563 ± 205.811 $\chi^2/\text{NDF}: 21.4/15$

Left Out: -44.662 ± 265.711 $\chi^2/\text{NDF}: 4.8/2$

Right Out: 452.540 ± 203.918 $\chi^2/\text{NDF}: 11.3/18$

Left In: 281.980 ± 301.171 $\chi^2/\text{NDF}: 2.3/1$

Left: 98.306 ± 199.250 $\chi^2/\text{NDF}: 7.7/4$

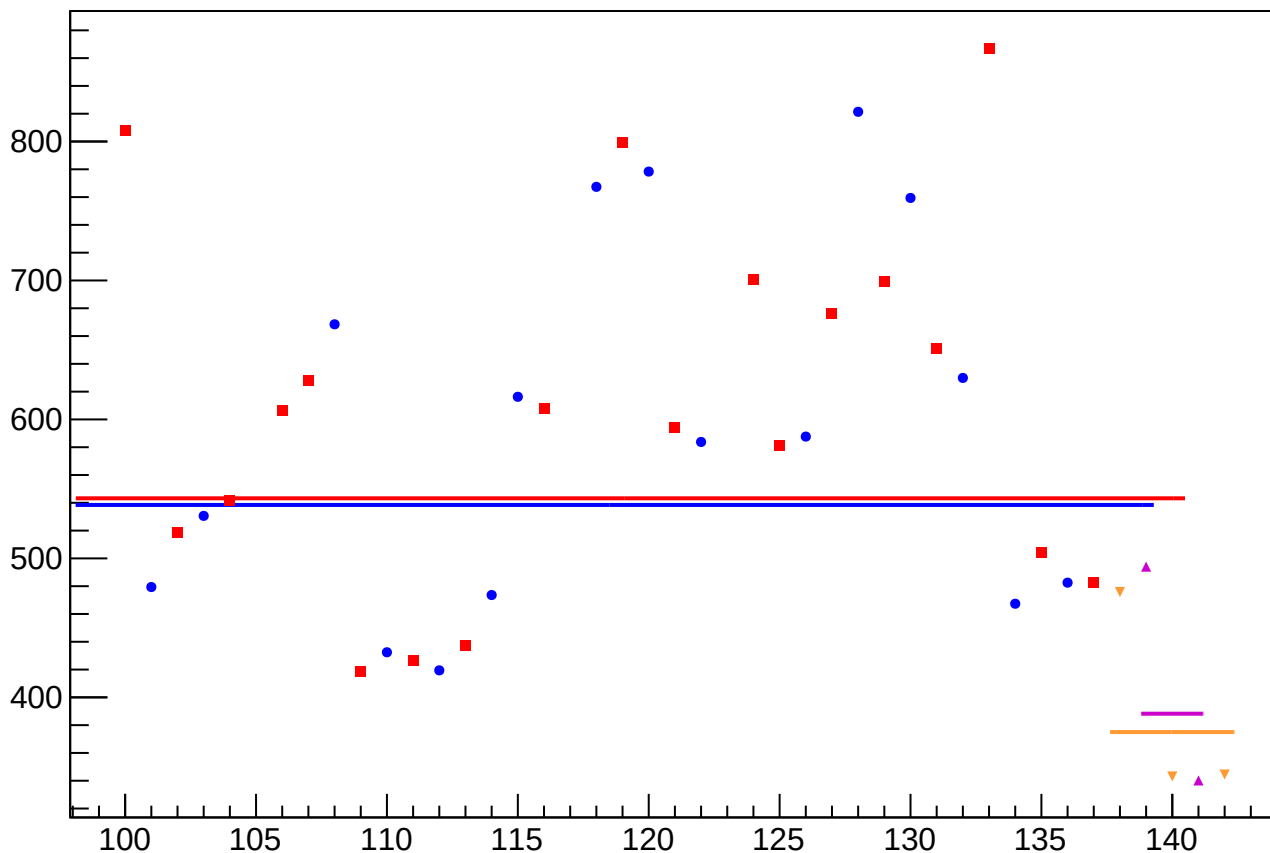
Right: 134.950 ± 144.856 $\chi^2/\text{NDF}: 37.6/34$

In: -38.774 ± 169.924 $\chi^2/\text{NDF}: 25.3/17$

Out: 268.247 ± 161.770 $\chi^2/\text{NDF}: 18.3/21$

All: 122.279 ± 117.165 $\chi^2/\text{NDF}: 45.3/39$

asym_sam_1357_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 538.468 $\pm$ 0.146 χ^2 /NDF: 613995.2/15

Left Out: 375.021 $\pm$ 0.188 χ^2 /NDF: 89839.3/2

Right Out: 543.242 $\pm$ 0.144 χ^2 /NDF: 637115.5/18

Left In: 388.241 $\pm$ 0.213 χ^2 /NDF: 112093.2/1

Left: 380.807 $\pm$ 0.141 χ^2 /NDF: 204099.3/4

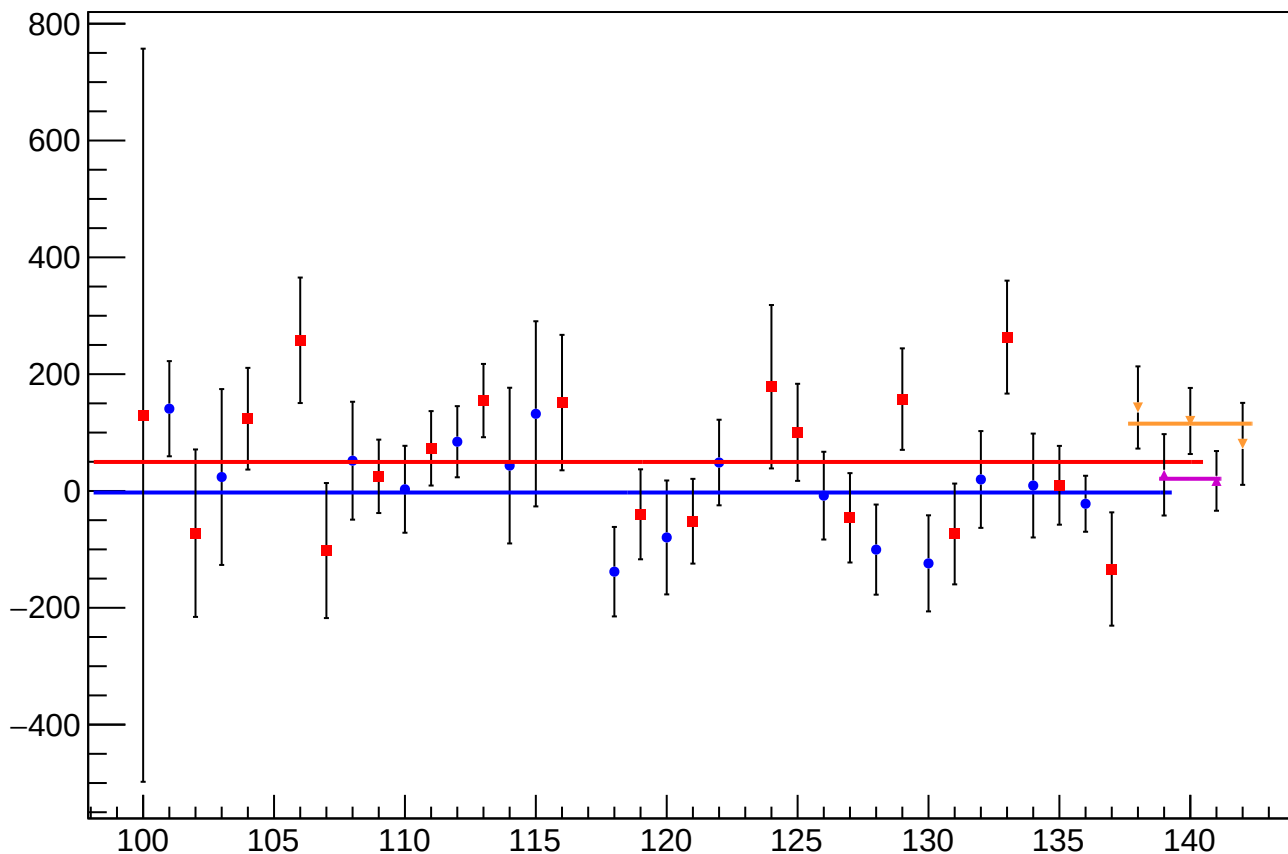
Right: 540.877 $\pm$ 0.102 χ^2 /NDF: 1251653.7/34

In: 490.645 $\pm$ 0.120 χ^2 /NDF: 1065300.0/17

Out: 480.889 $\pm$ 0.114 χ^2 /NDF: 1231448.3/21

All: 485.527 $\pm$ 0.083 χ^2 /NDF: 2300207.0/39

cor_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.618 ± 19.995 $\chi^2/\text{NDF}: 14.6/15$

Left Out: 115.273 ± 37.337 $\chi^2/\text{NDF}: 0.4/2$

Right Out: 49.694 ± 19.622 $\chi^2/\text{NDF}: 29.3/18$

Left In: 20.914 ± 41.210 $\chi^2/\text{NDF}: 0.0/1$

Left: 72.735 ± 27.670 $\chi^2/\text{NDF}: 3.3/4$

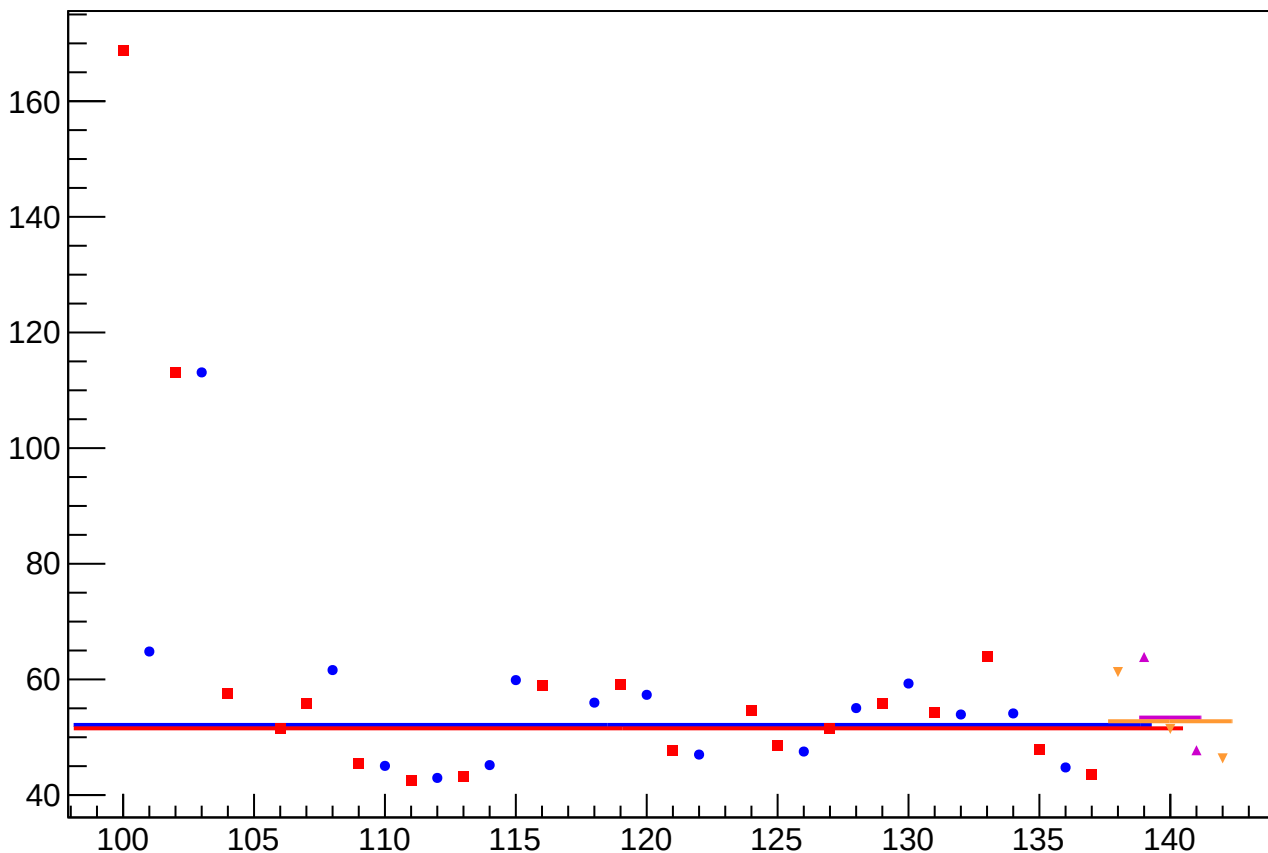
Right: 24.030 ± 14.005 $\chi^2/\text{NDF}: 47.4/34$

In: 1.866 ± 17.989 $\chi^2/\text{NDF}: 14.9/17$

Out: 63.886 ± 17.369 $\chi^2/\text{NDF}: 32.1/21$

All: 33.962 ± 12.495 $\chi^2/\text{NDF}: 53.1/39$

cor_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 52.128 $\pm$ 0.014 χ^2 /NDF: 562920.3/15

Left Out: 52.765 $\pm$ 0.026 χ^2 /NDF: 47079.4/2

Right Out: 51.540 $\pm$ 0.014 χ^2 /NDF: 639784.7/18

Left In: 53.398 $\pm$ 0.029 χ^2 /NDF: 69694.7/1

Left: 53.050 $\pm$ 0.020 χ^2 /NDF: 117033.3/4

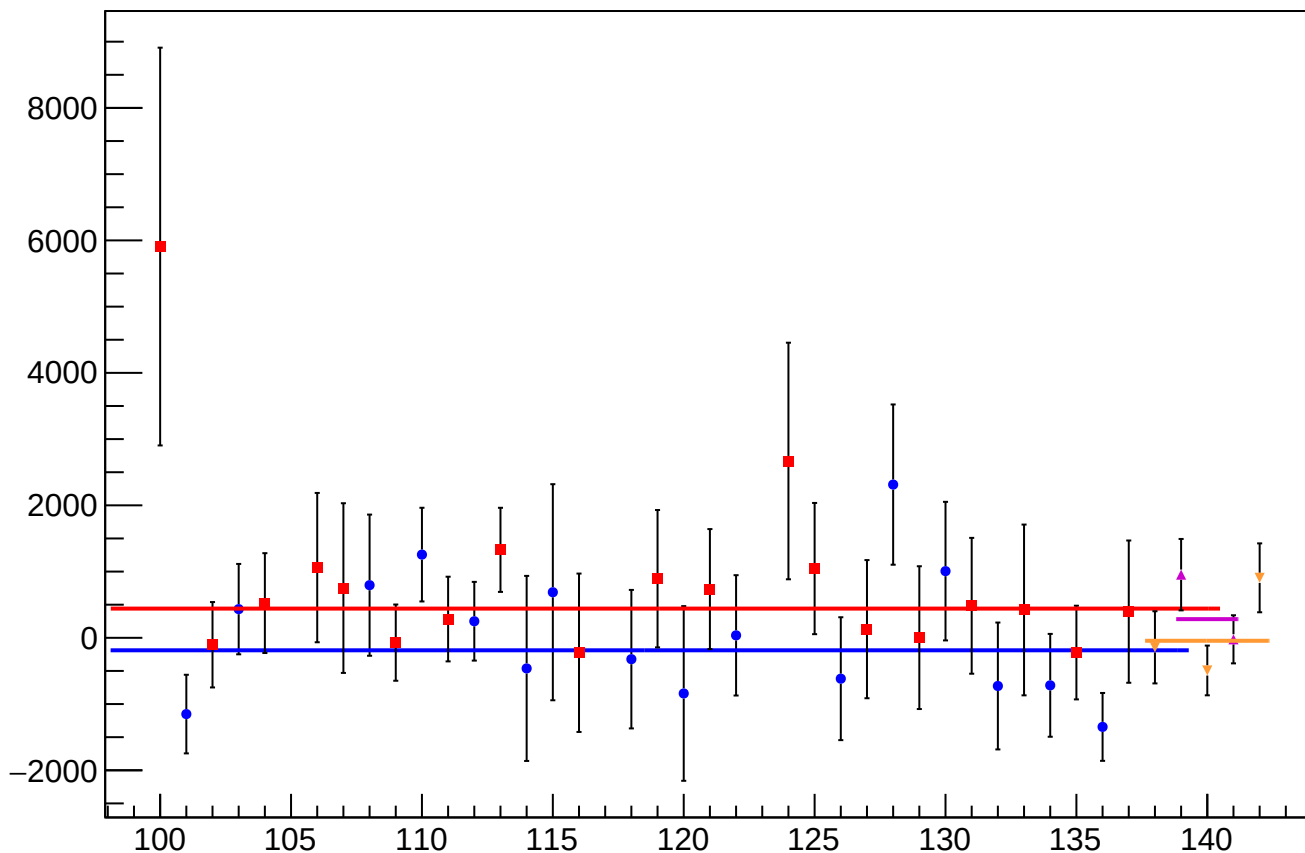
Right: 51.828 $\pm$ 0.010 χ^2 /NDF: 1203588.8/34

In: 52.370 $\pm$ 0.013 χ^2 /NDF: 634150.7/17

Out: 51.805 $\pm$ 0.012 χ^2 /NDF: 688551.4/21

All: 52.078 $\pm$ 0.009 χ^2 /NDF: 1323725.3/39

asym_sam_1357_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -188.541 ± 205.813 $\chi^2/\text{NDF}: 21.4/15$

Left Out: -44.654 ± 265.711 $\chi^2/\text{NDF}: 4.8/2$

Right Out: 441.171 ± 204.111 $\chi^2/\text{NDF}: 10.9/18$

Left In: 281.992 ± 301.172 $\chi^2/\text{NDF}: 2.3/1$

Left: 98.315 ± 199.249 $\chi^2/\text{NDF}: 7.7/4$

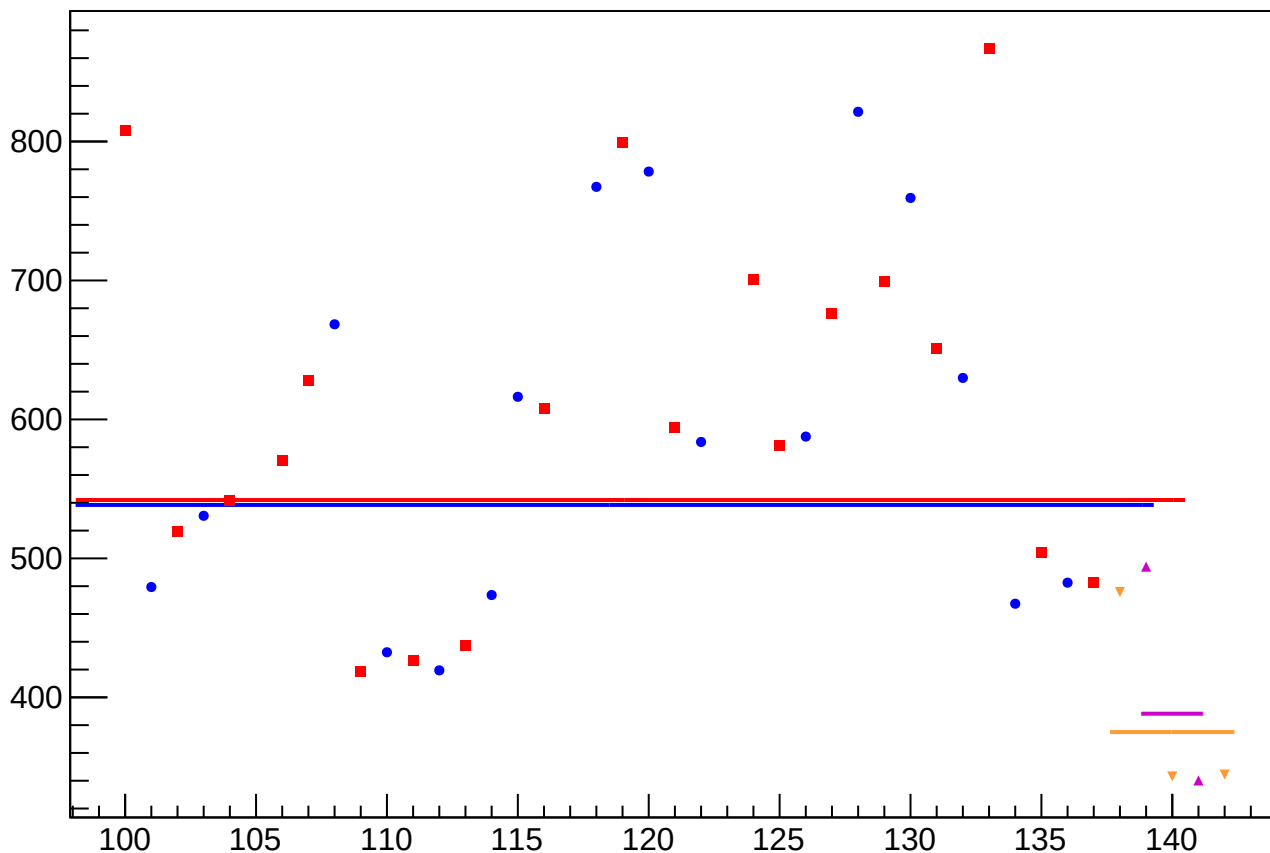
Right: 128.930 ± 144.926 $\chi^2/\text{NDF}: 37.0/34$

In: -38.753 ± 169.925 $\chi^2/\text{NDF}: 25.3/17$

Out: 260.880 ± 161.866 $\chi^2/\text{NDF}: 17.8/21$

All: 118.337 ± 117.202 $\chi^2/\text{NDF}: 44.7/39$

asym_sam_1357_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 538.473+/-0.146 χ^2/NDF : 613991.3/15

Left Out: 375.020+/-0.188 χ^2/NDF : 89839.5/2

Right Out: 542.025+/-0.144 χ^2/NDF : 631559.6/18

Left In: 388.241+/-0.213 χ^2/NDF : 112091.7/1

Left: 380.807+/-0.141 χ^2/NDF : 204098.3/4

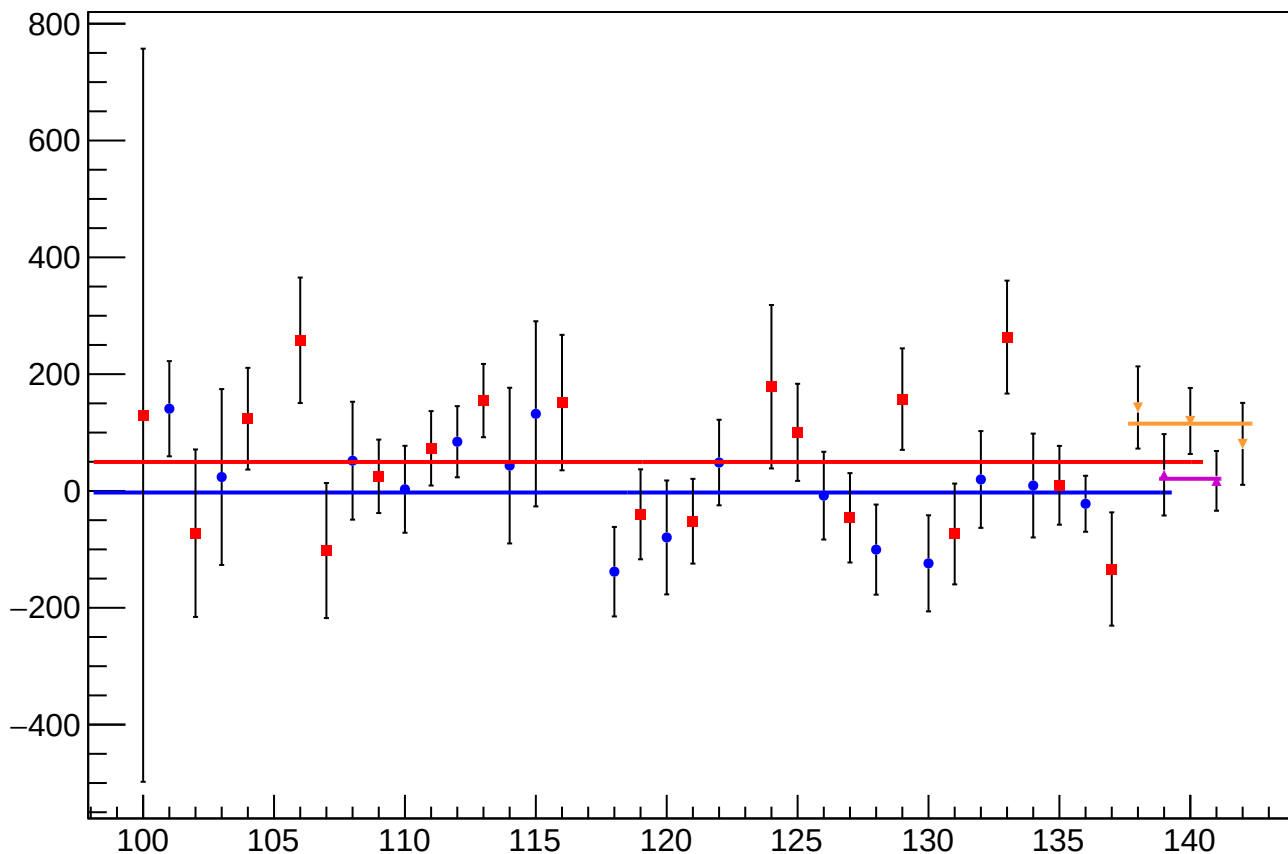
Right: 540.264+/-0.102 χ^2/NDF : 1245851.3/34

In: 490.649+/-0.120 χ^2/NDF : 1065314.1/17

Out: 480.049+/-0.114 χ^2/NDF : 1218278.5/21

All: 485.092+/-0.083 χ^2/NDF : 2287672.2/39

eigen_cor_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.618 ± 19.995 $\chi^2/\text{NDF}: 14.6/15$

Left Out: 115.273 ± 37.337 $\chi^2/\text{NDF}: 0.4/2$

Right Out: 49.694 ± 19.622 $\chi^2/\text{NDF}: 29.3/18$

Left In: 20.914 ± 41.210 $\chi^2/\text{NDF}: 0.0/1$

Left: 72.735 ± 27.670 $\chi^2/\text{NDF}: 3.3/4$

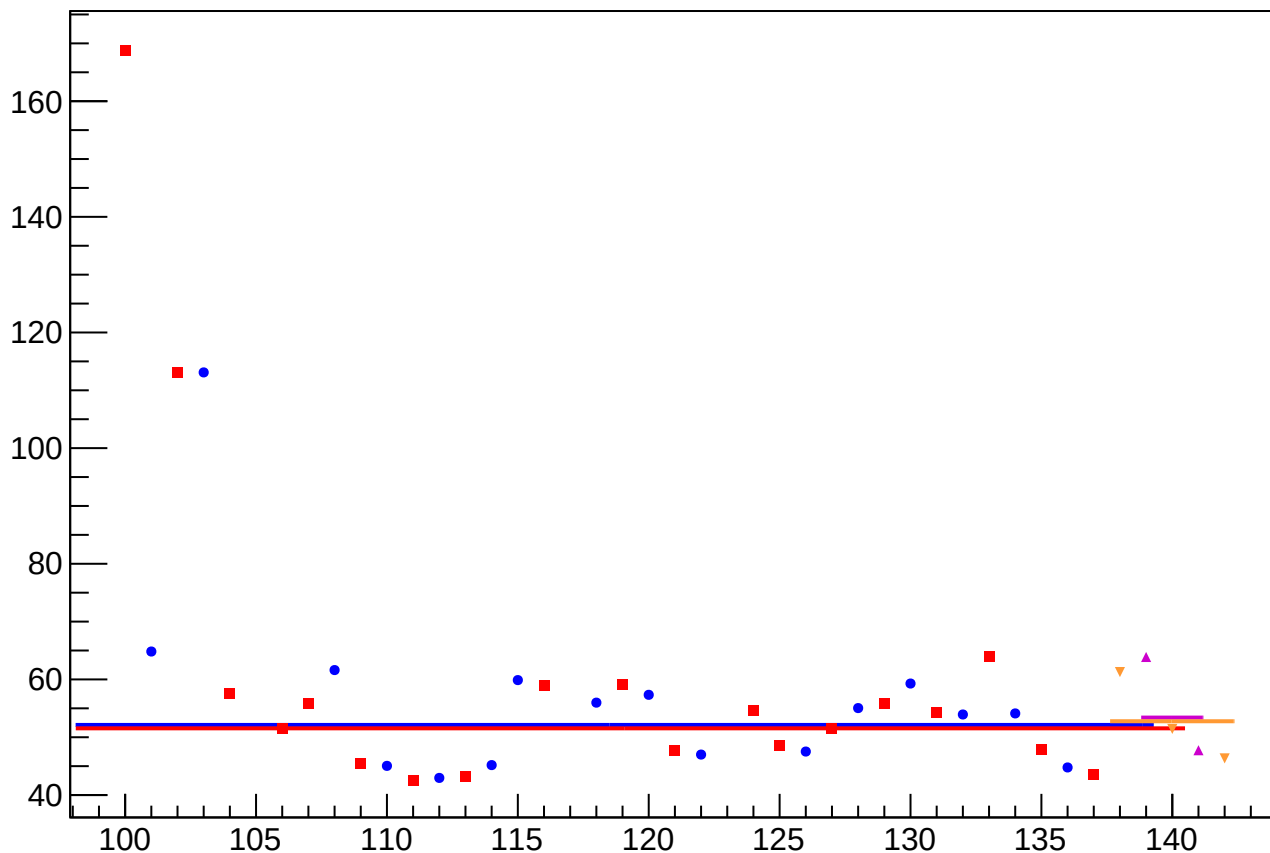
Right: 24.030 ± 14.005 $\chi^2/\text{NDF}: 47.4/34$

In: 1.866 ± 17.989 $\chi^2/\text{NDF}: 14.9/17$

Out: 63.886 ± 17.369 $\chi^2/\text{NDF}: 32.1/21$

All: 33.962 ± 12.495 $\chi^2/\text{NDF}: 53.1/39$

eigen_cor_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 52.128 $\pm$ 0.014 χ^2 /NDF: 562920.3/15

Left Out: 52.765 $\pm$ 0.026 χ^2 /NDF: 47079.4/2

Right Out: 51.540 $\pm$ 0.014 χ^2 /NDF: 639784.7/18

Left In: 53.398 $\pm$ 0.029 χ^2 /NDF: 69694.7/1

Left: 53.050 $\pm$ 0.020 χ^2 /NDF: 117033.3/4

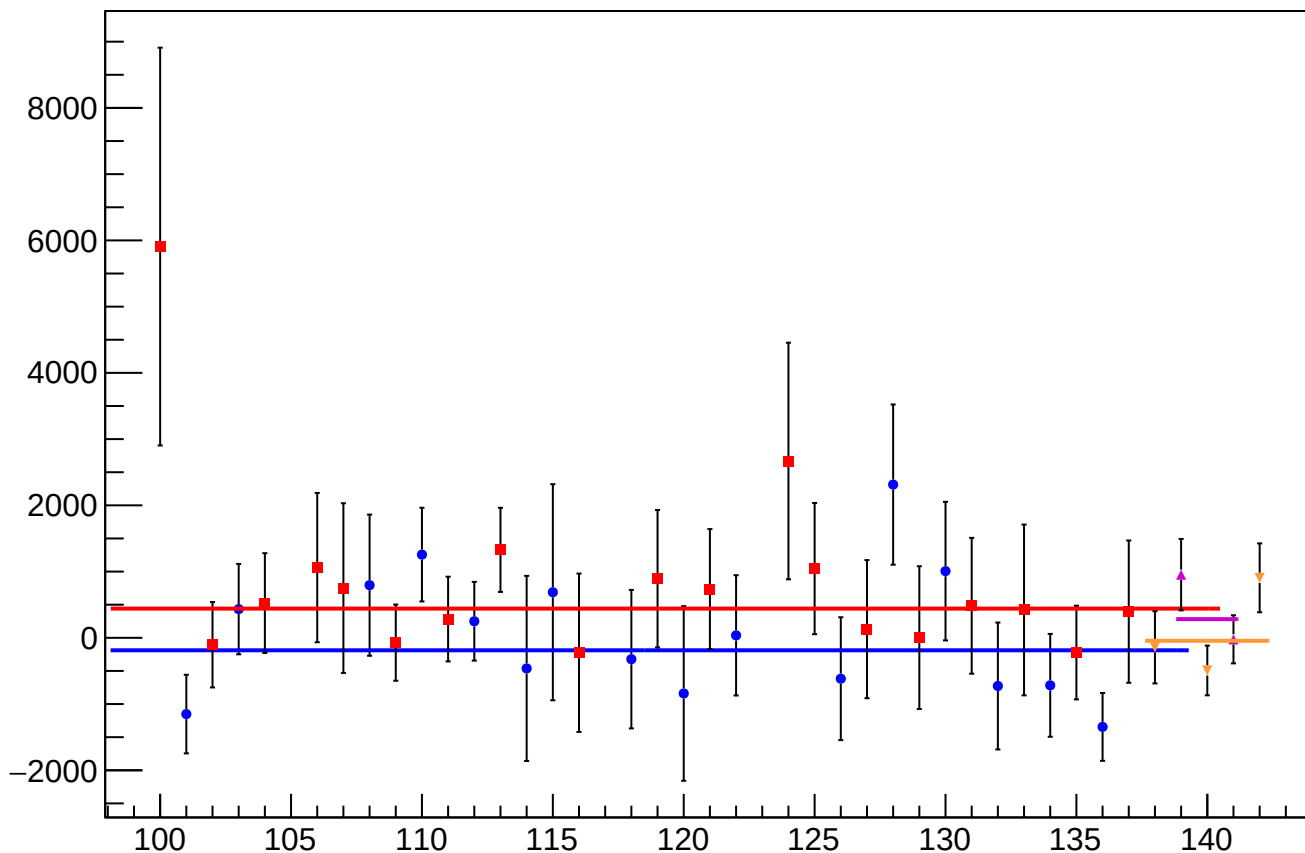
Right: 51.828 $\pm$ 0.010 χ^2 /NDF: 1203588.8/34

In: 52.370 $\pm$ 0.013 χ^2 /NDF: 634150.7/17

Out: 51.805 $\pm$ 0.012 χ^2 /NDF: 688551.4/21

All: 52.078 $\pm$ 0.009 χ^2 /NDF: 1323725.3/39

asym_sam_1357_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -188.541 ± 205.813 χ^2/NDF : 21.4/15

Left Out: -44.654 ± 265.711 χ^2/NDF : 4.8/2

Right Out: 441.171 ± 204.111 χ^2/NDF : 10.9/18

Left In: 281.992 ± 301.172 χ^2/NDF : 2.3/1

Left: 98.315 ± 199.249 χ^2/NDF : 7.7/4

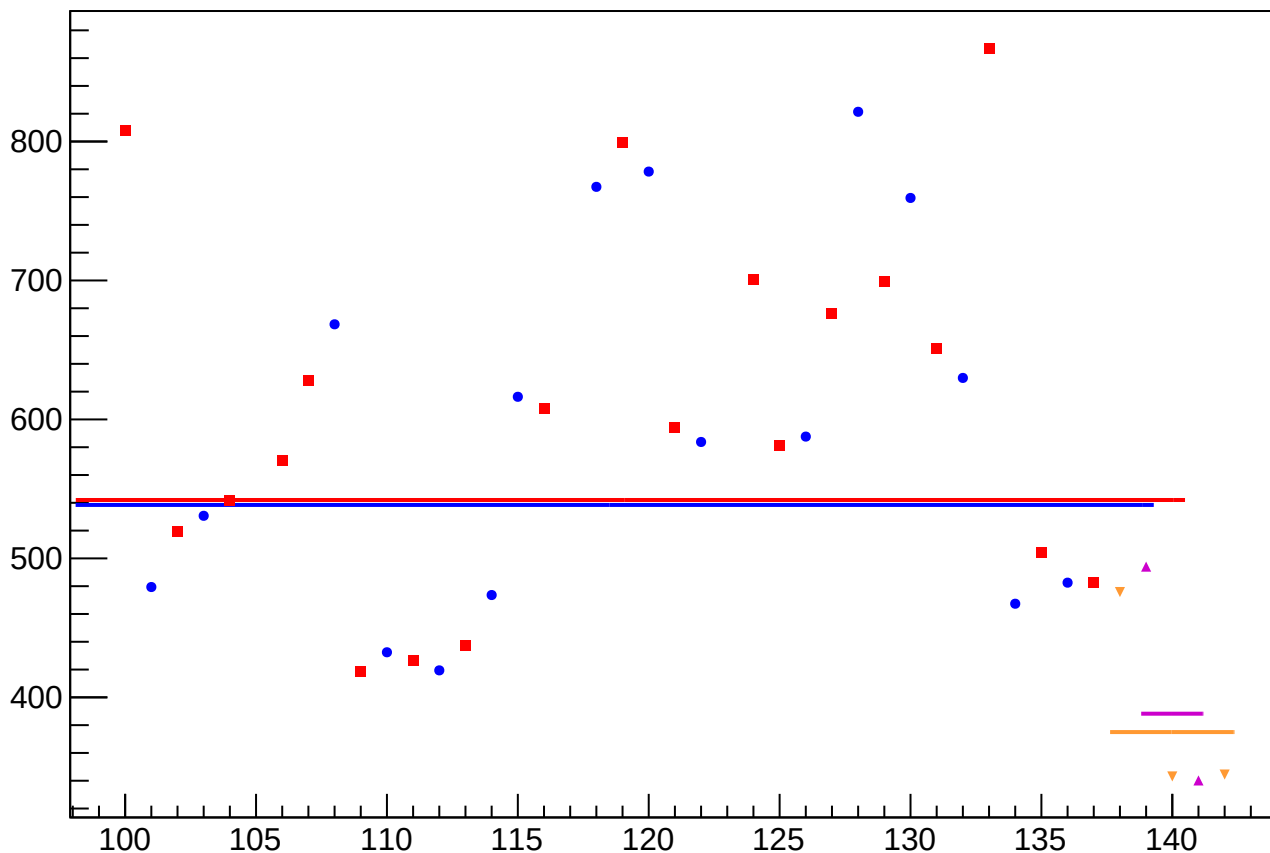
Right: 128.930 ± 144.926 χ^2/NDF : 37.0/34

In: -38.753 ± 169.925 χ^2/NDF : 25.3/17

Out: 260.880 ± 161.866 χ^2/NDF : 17.8/21

All: 118.337 ± 117.202 χ^2/NDF : 44.7/39

asym_sam_1357_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 538.473+/-0.146 χ^2/NDF : 613991.3/15

Left Out: 375.020+/-0.188 χ^2/NDF : 89839.5/2

Right Out: 542.025+/-0.144 χ^2/NDF : 631559.6/18

Left In: 388.241+/-0.213 χ^2/NDF : 112091.7/1

Left: 380.807+/-0.141 χ^2/NDF : 204098.3/4

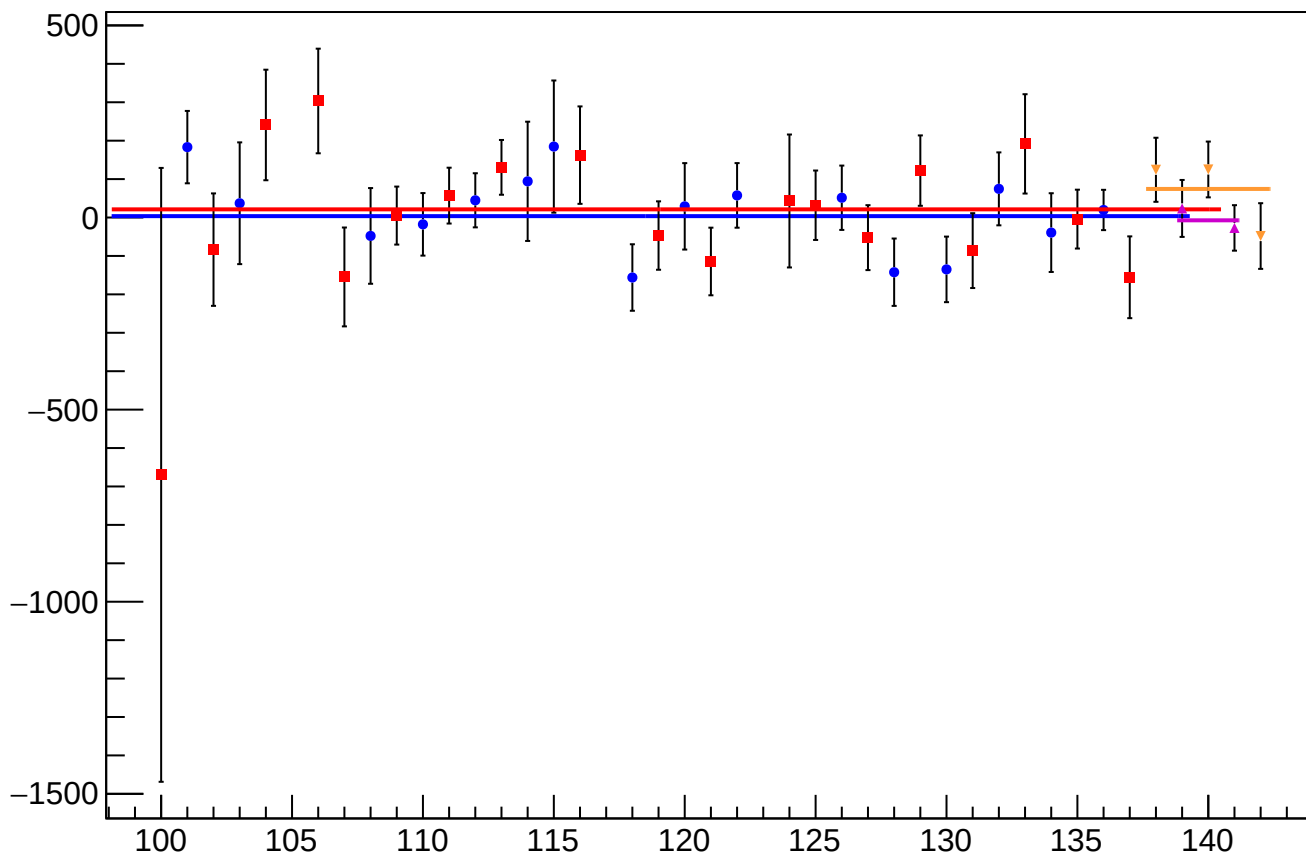
Right: 540.264+/-0.102 χ^2/NDF : 1245851.3/34

In: 490.649+/-0.120 χ^2/NDF : 1065314.1/17

Out: 480.049+/-0.114 χ^2/NDF : 1218278.5/21

All: 485.092+/-0.083 χ^2/NDF : 2287672.2/39

dit_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 3.597 ± 22.480 χ^2/NDF : 16.1/15

Left Out: 74.398 ± 46.109 χ^2/NDF : 2.9/2

Right Out: 21.253 ± 22.769 χ^2/NDF : 24.4/18

Left In: -7.299 ± 46.254 χ^2/NDF : 0.3/1

Left: 33.678 ± 32.655 χ^2/NDF : 4.8/4

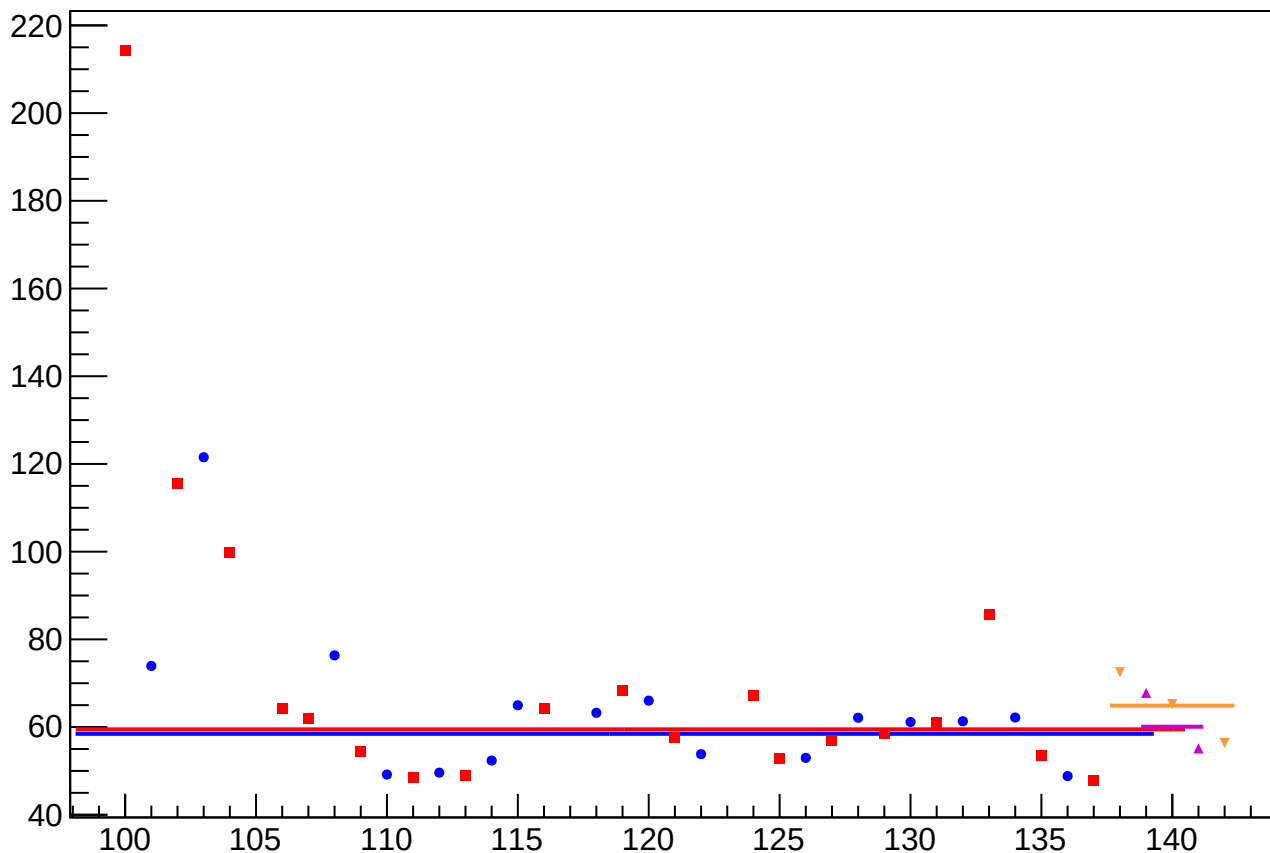
Right: 12.313 ± 15.997 χ^2/NDF : 40.9/34

In: 1.515 ± 20.219 χ^2/NDF : 16.5/17

Out: 31.672 ± 20.415 χ^2/NDF : 28.4/21

All: 16.447 ± 14.366 χ^2/NDF : 46.0/39

dit_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 58.465 $\pm$ 0.016 χ^2 /NDF: 582984.2/15

Left Out: 64.894 $\pm$ 0.033 χ^2 /NDF: 36576.2/2

Right Out: 59.484 $\pm$ 0.016 χ^2 /NDF: 784880.1/18

Left In: 60.082 $\pm$ 0.033 χ^2 /NDF: 35587.3/1

Left: 62.496 $\pm$ 0.023 χ^2 /NDF: 83022.2/4

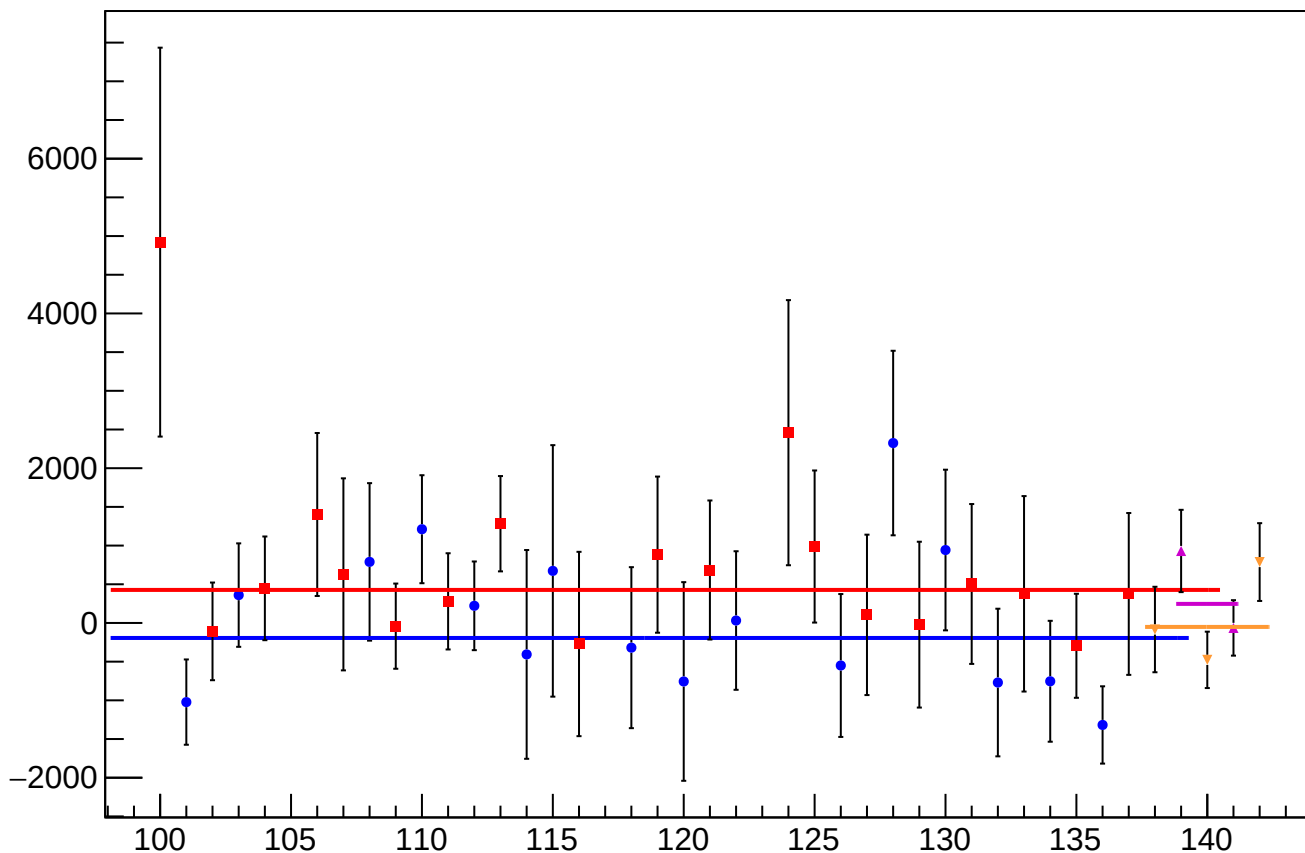
Right: 58.968 $\pm$ 0.011 χ^2 /NDF: 1369891.4/34

In: 58.774 $\pm$ 0.014 χ^2 /NDF: 620547.4/17

Out: 60.545 $\pm$ 0.014 χ^2 /NDF: 843592.9/21

All: 59.651 $\pm$ 0.010 χ^2 /NDF: 1471733.1/39

asym_sam_1357_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -193.899+/-200.604 χ^2/NDF : 20.8/15

Left Out: -51.184+/-260.214 χ^2/NDF : 4.1/2

Right Out: 426.977+/-197.005 χ^2/NDF : 11.3/18

Left In: 246.420+/-297.132 χ^2/NDF : 2.4/1

Left: 77.991+/-195.758 χ^2/NDF : 7.1/4

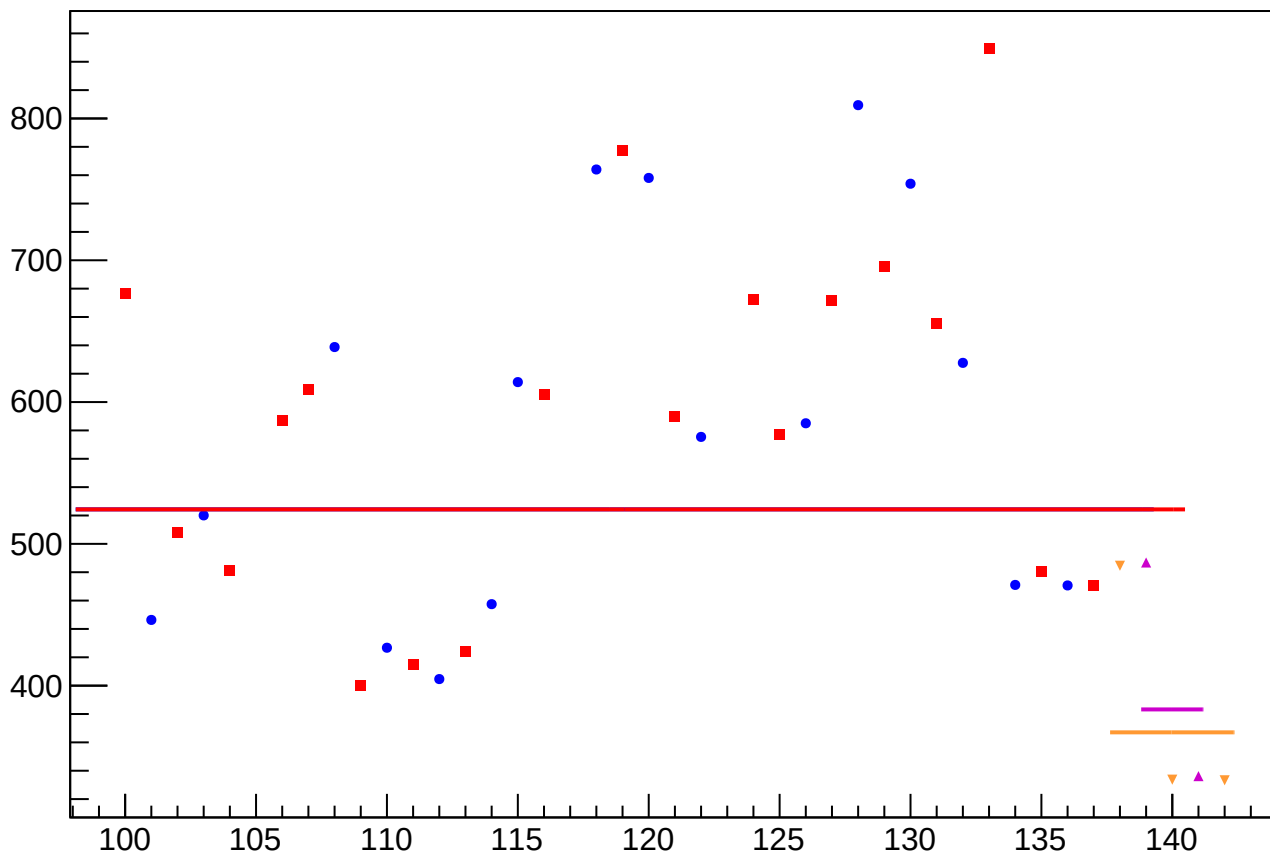
Right: 122.158+/-140.559 χ^2/NDF : 37.0/34

In: -56.038+/-166.260 χ^2/NDF : 24.7/17

Out: 252.761+/-157.068 χ^2/NDF : 17.6/21

All: 107.133+/-114.175 χ^2/NDF : 44.1/39

asym_sam_1357_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 524.326+/-0.142 χ^2/NDF : 658488.5/15

Left Out: 367.066+/-0.184 χ^2/NDF : 116342.6/2

Right Out: 524.306+/-0.139 χ^2/NDF : 686061.2/18

Left In: 383.236+/-0.210 χ^2/NDF : 110429.7/1

Left: 374.085+/-0.138 χ^2/NDF : 230124.5/4

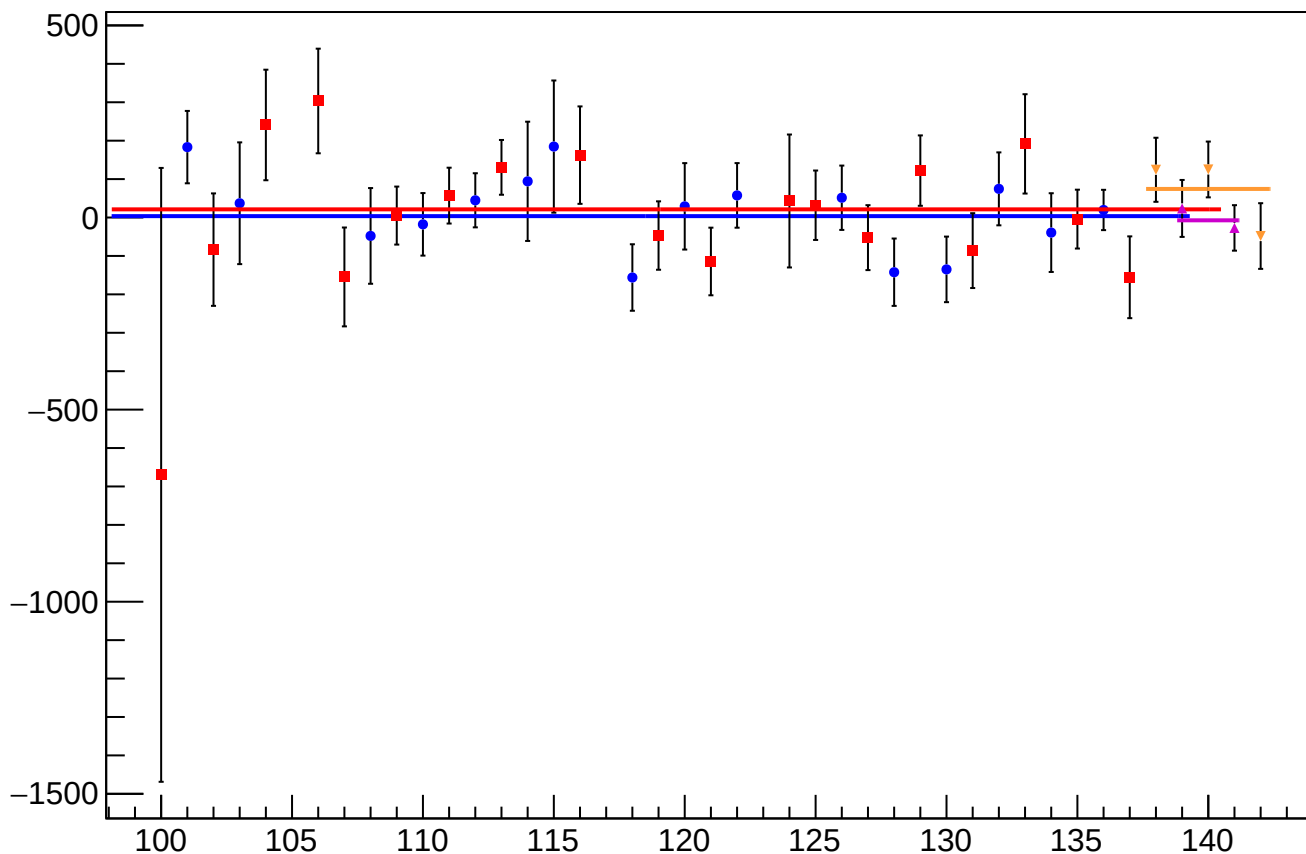
Right: 524.316+/-0.099 χ^2/NDF : 1344549.7/34

In: 480.152+/-0.118 χ^2/NDF : 1078675.9/17

Out: 467.017+/-0.111 χ^2/NDF : 1266617.0/21

All: 473.211+/-0.081 χ^2/NDF : 2351889.1/39

eigen_dit_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 3.597 ± 22.480 χ^2/NDF : 16.1/15

Left Out: 74.398 ± 46.109 χ^2/NDF : 2.9/2

Right Out: 21.251 ± 22.769 χ^2/NDF : 24.4/18

Left In: -7.298 ± 46.254 χ^2/NDF : 0.3/1

Left: 33.678 ± 32.655 χ^2/NDF : 4.8/4

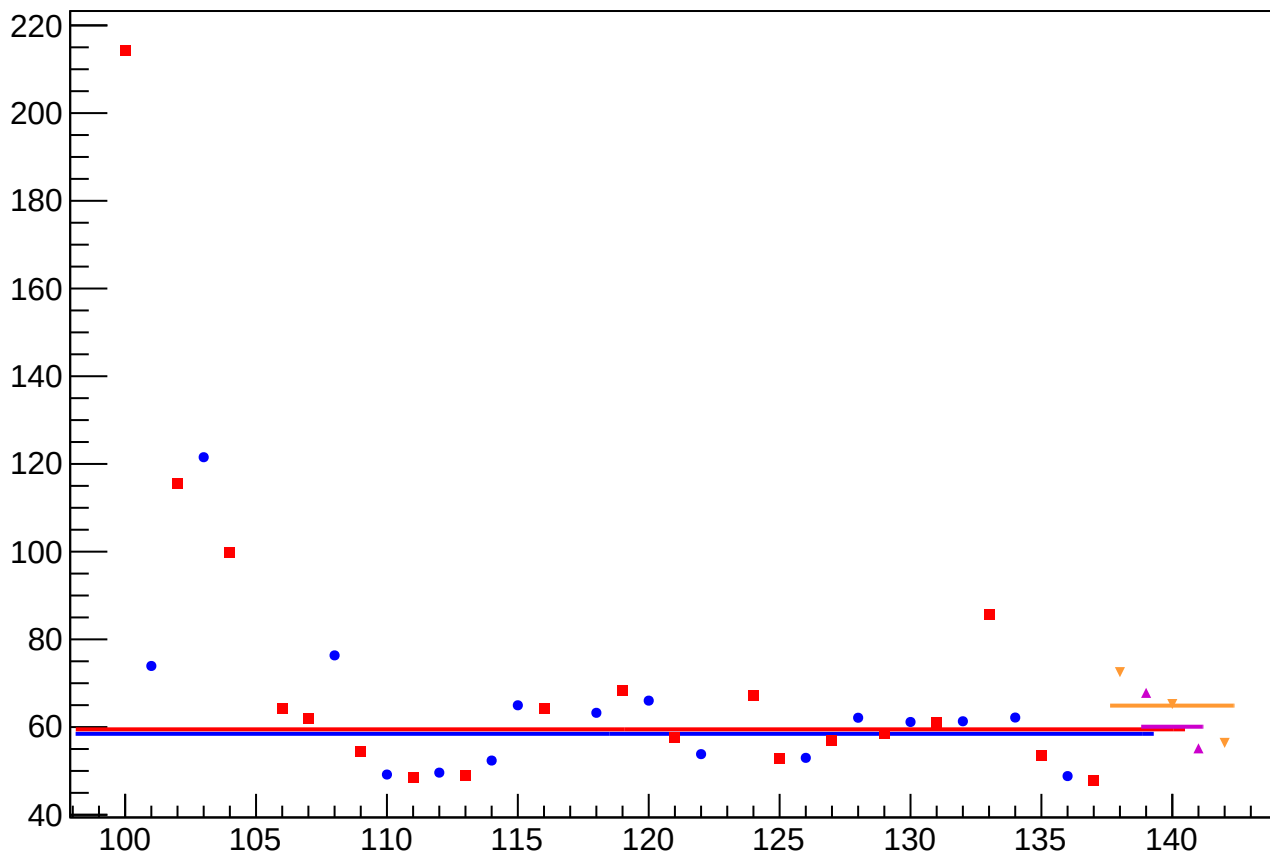
Right: 12.312 ± 15.997 χ^2/NDF : 40.9/34

In: 1.515 ± 20.219 χ^2/NDF : 16.5/17

Out: 31.670 ± 20.415 χ^2/NDF : 28.4/21

All: 16.447 ± 14.366 χ^2/NDF : 46.0/39

eigen_dit_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 58.466 $\pm$ 0.016 χ^2 /NDF: 582980.6/15

Left Out: 64.894 $\pm$ 0.033 χ^2 /NDF: 36575.7/2

Right Out: 59.484 $\pm$ 0.016 χ^2 /NDF: 784880.2/18

Left In: 60.082 $\pm$ 0.033 χ^2 /NDF: 35585.8/1

Left: 62.496 $\pm$ 0.023 χ^2 /NDF: 83020.1/4

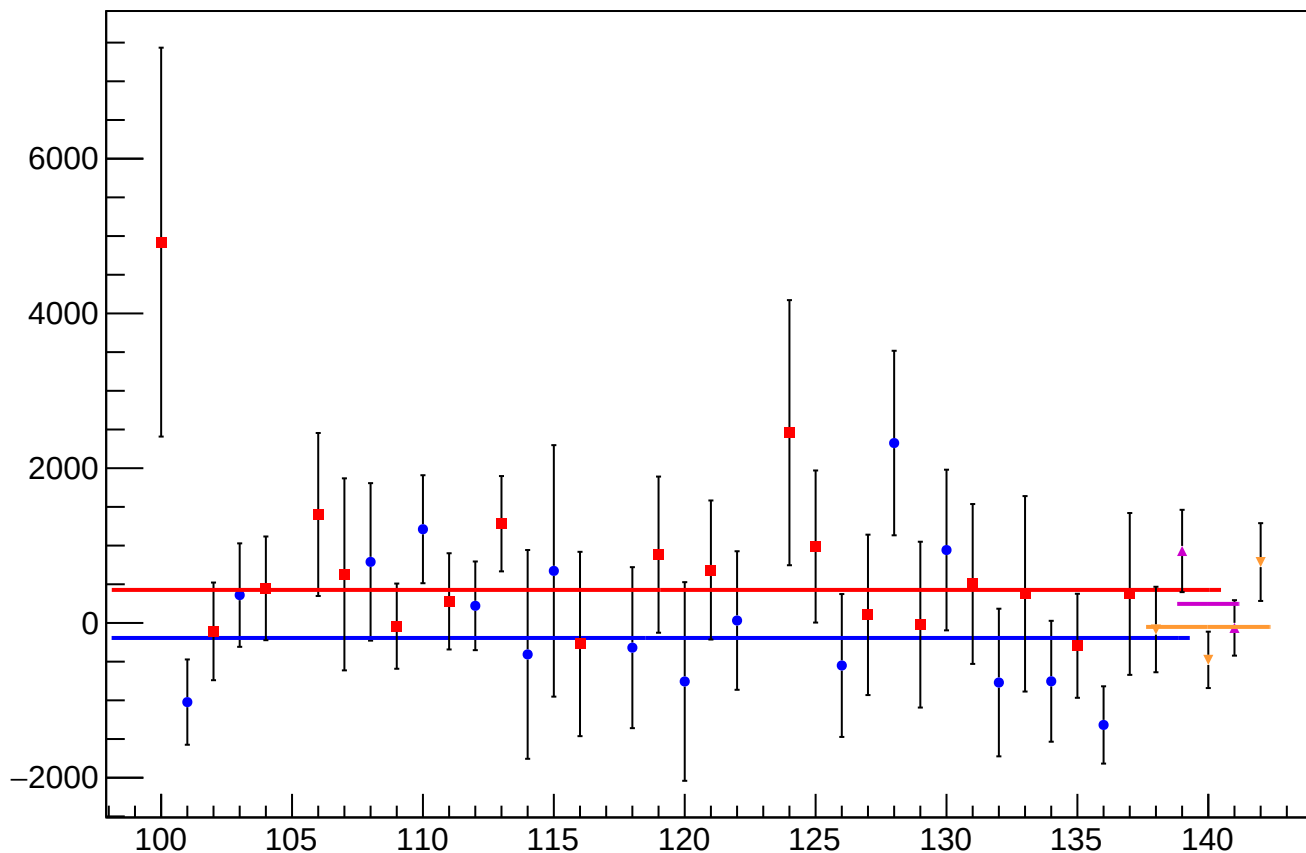
Right: 58.968 $\pm$ 0.011 χ^2 /NDF: 1369888.0/34

In: 58.774 $\pm$ 0.014 χ^2 /NDF: 620542.6/17

Out: 60.545 $\pm$ 0.014 χ^2 /NDF: 843593.5/21

All: 59.651 $\pm$ 0.010 χ^2 /NDF: 1471729.0/39

asym_sam_1357_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -193.899 ± 200.603 χ^2/NDF : 20.8/15

Left Out: -51.185 ± 260.214 χ^2/NDF : 4.1/2

Right Out: 426.976 ± 197.005 χ^2/NDF : 11.3/18

Left In: 246.420 ± 297.132 χ^2/NDF : 2.4/1

Left: 77.991 ± 195.758 χ^2/NDF : 7.1/4

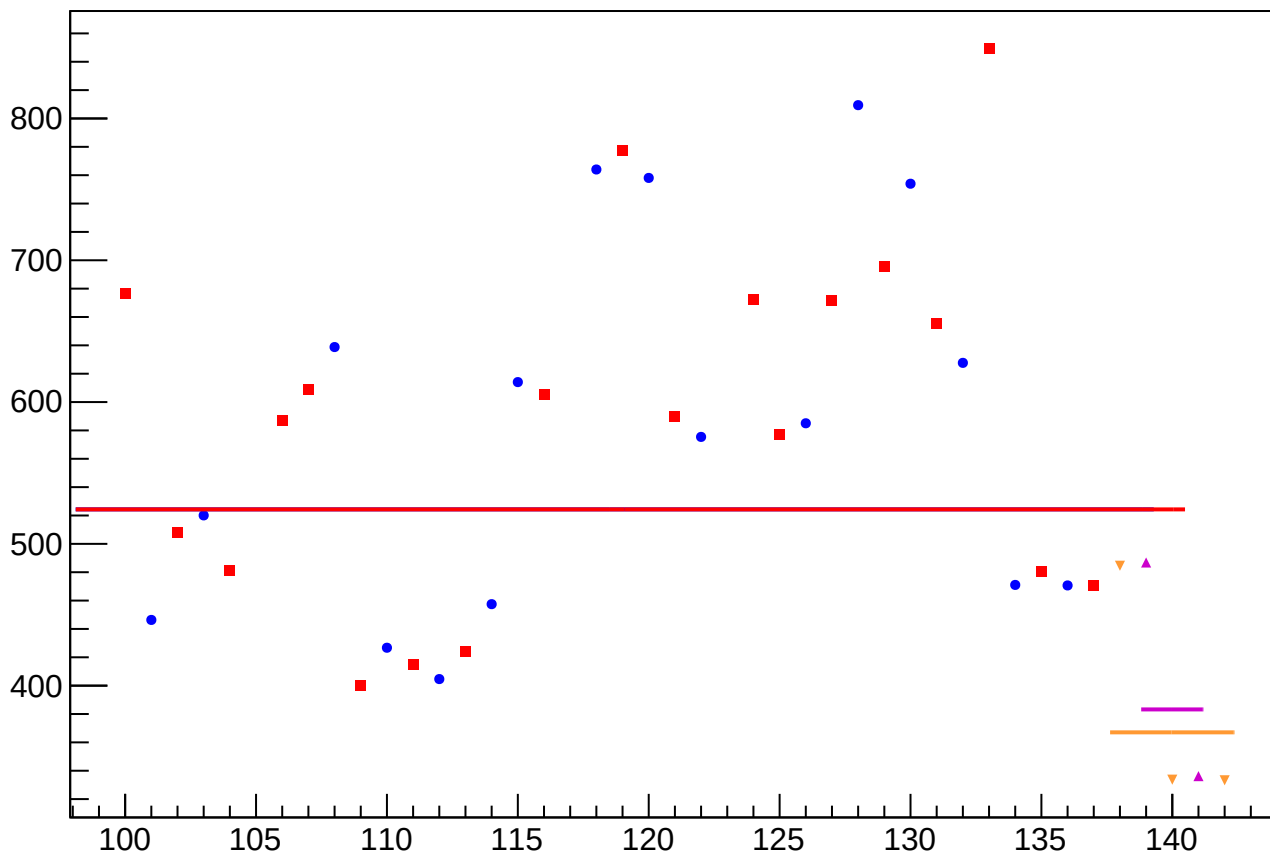
Right: 122.157 ± 140.558 χ^2/NDF : 37.0/34

In: -56.038 ± 166.260 χ^2/NDF : 24.7/17

Out: 252.761 ± 157.068 χ^2/NDF : 17.6/21

All: 107.133 ± 114.175 χ^2/NDF : 44.1/39

asym_sam_1357_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 524.325+/-0.142 χ^2/NDF : 658493.8/15

Left Out: 367.066+/-0.184 χ^2/NDF : 116343.5/2

Right Out: 524.305+/-0.139 χ^2/NDF : 686063.6/18

Left In: 383.236+/-0.210 χ^2/NDF : 110430.0/1

Left: 374.085+/-0.138 χ^2/NDF : 230125.7/4

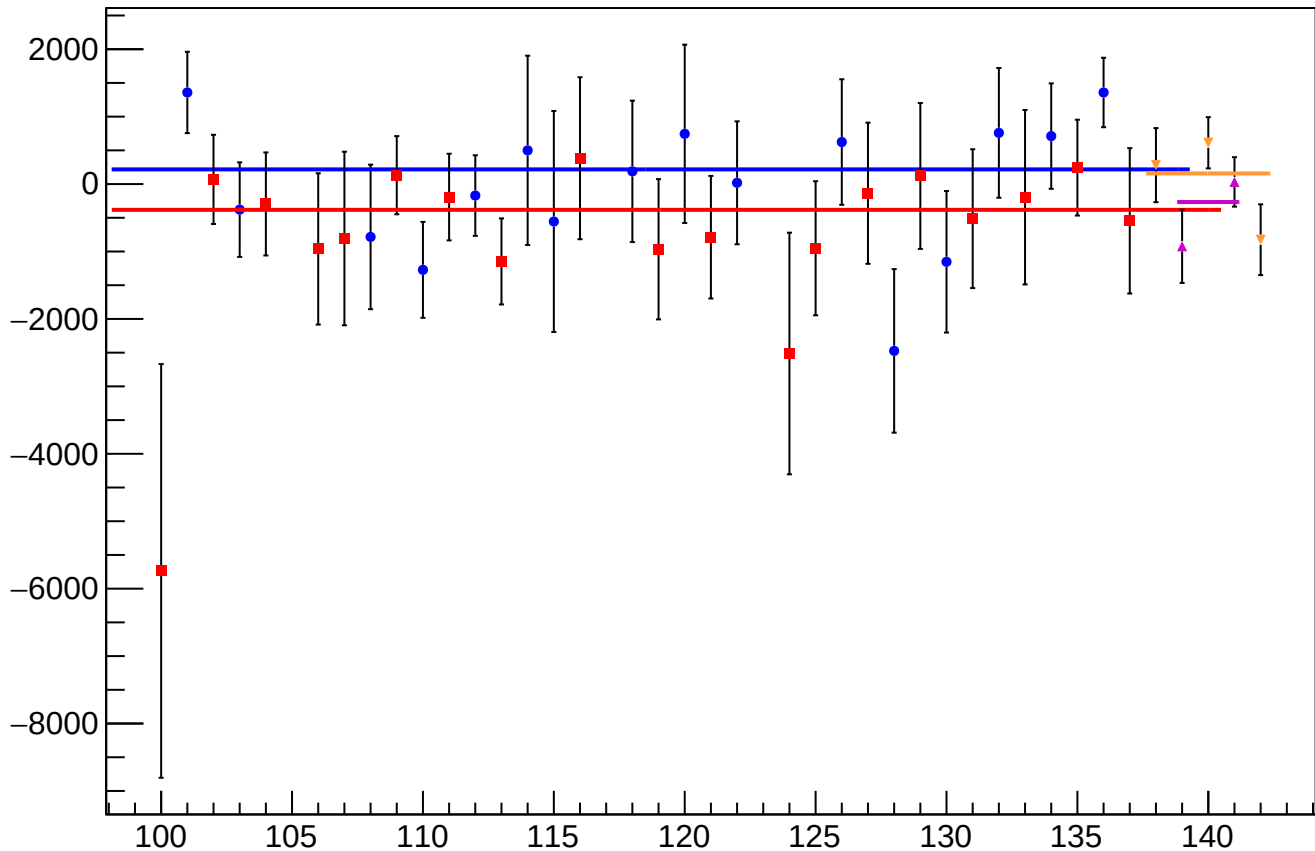
Right: 524.315+/-0.099 χ^2/NDF : 1344557.5/34

In: 480.151+/-0.118 χ^2/NDF : 1078676.6/17

Out: 467.016+/-0.111 χ^2/NDF : 1266612.9/21

All: 473.211+/-0.081 χ^2/NDF : 2351885.4/39

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 217.756 ± 207.492 $\chi^2/\text{NDF}: 22.9/15$

Left Out: 157.306 ± 268.423 $\chi^2/\text{NDF}: 5.0/2$

Right Out: -381.836 ± 205.585 $\chi^2/\text{NDF}: 10.0/18$

Left In: -266.432 ± 304.029 $\chi^2/\text{NDF}: 2.1/1$

Left: -28.308 ± 201.221 $\chi^2/\text{NDF}: 8.2/4$

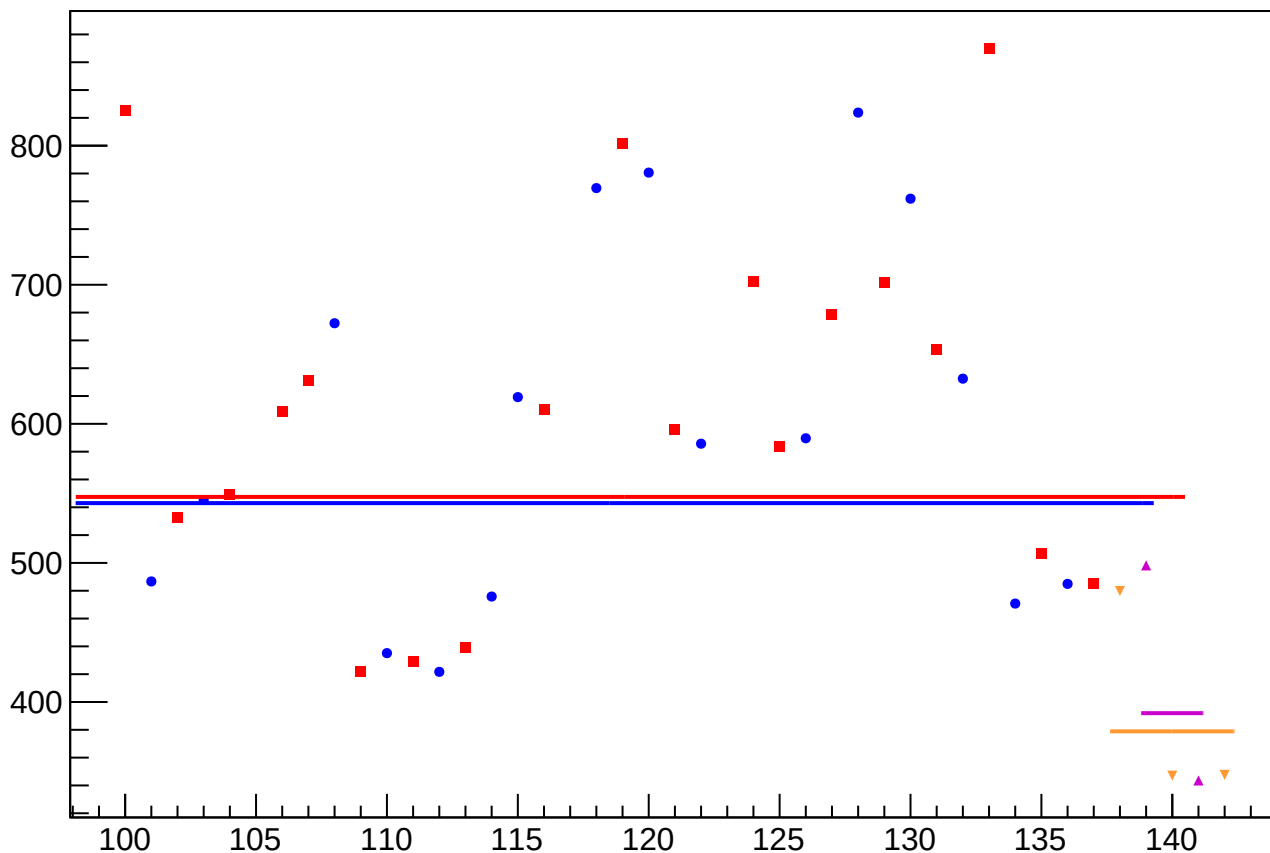
Right: -84.807 ± 146.040 $\chi^2/\text{NDF}: 37.1/34$

In: 63.898 ± 171.383 $\chi^2/\text{NDF}: 26.7/17$

Out: -182.503 ± 163.214 $\chi^2/\text{NDF}: 17.5/21$

All: -65.314 ± 118.192 $\chi^2/\text{NDF}: 45.3/39$

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 542.997+/-0.147 χ^2/NDF : 605250.7/15

Left Out: 378.890+/-0.190 χ^2/NDF : 88657.5/2

Right Out: 547.465+/-0.145 χ^2/NDF : 630284.0/18

Left In: 391.976+/-0.215 χ^2/NDF : 111214.5/1

Left: 384.622+/-0.142 χ^2/NDF : 201954.2/4

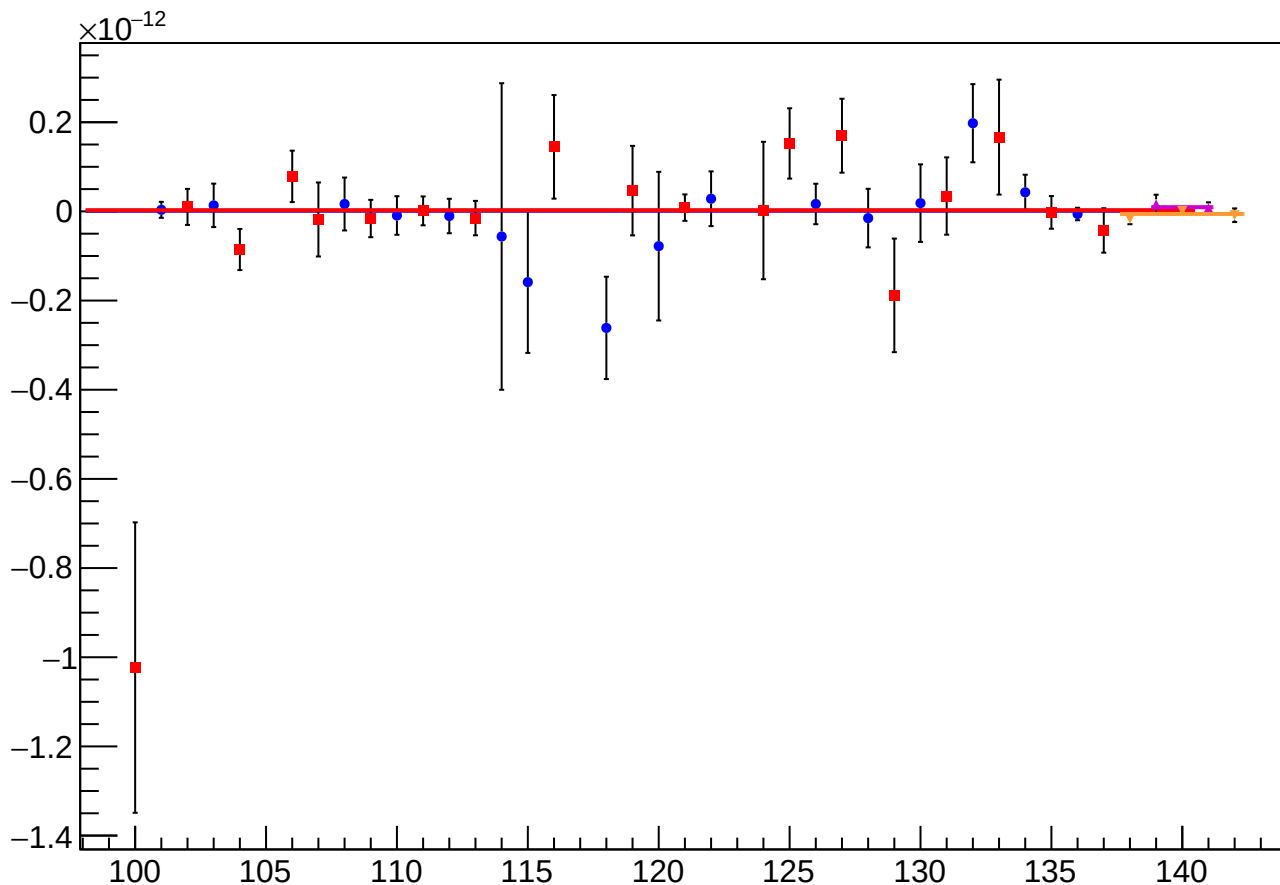
Right: 545.252+/-0.103 χ^2/NDF : 1236002.5/34

In: 495.008+/-0.121 χ^2/NDF : 1053139.2/17

Out: 485.139+/-0.115 χ^2/NDF : 1216113.4/21

All: 489.833+/-0.084 χ^2/NDF : 2272730.7/39

asym_sam_1357_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 13.6/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:1.3/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 30.1/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.1/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 2.8/4

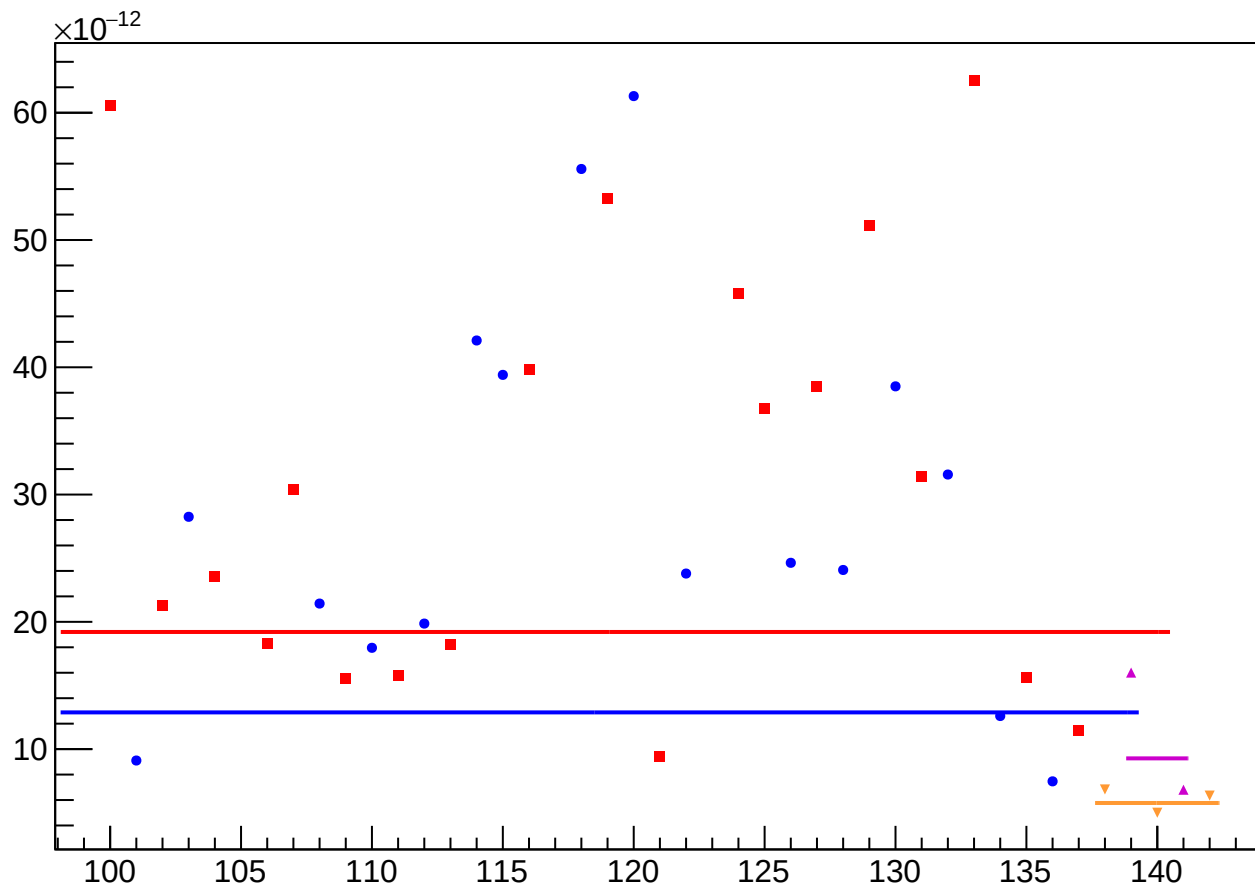
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 43.7/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:14.0/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:31.7/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 46.6/39

asym_sam_1357_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1756750.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 31914.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1367620.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 263607.2/1

Left: 0.000+/-0.000 χ^2/NDF : 440528.8/4

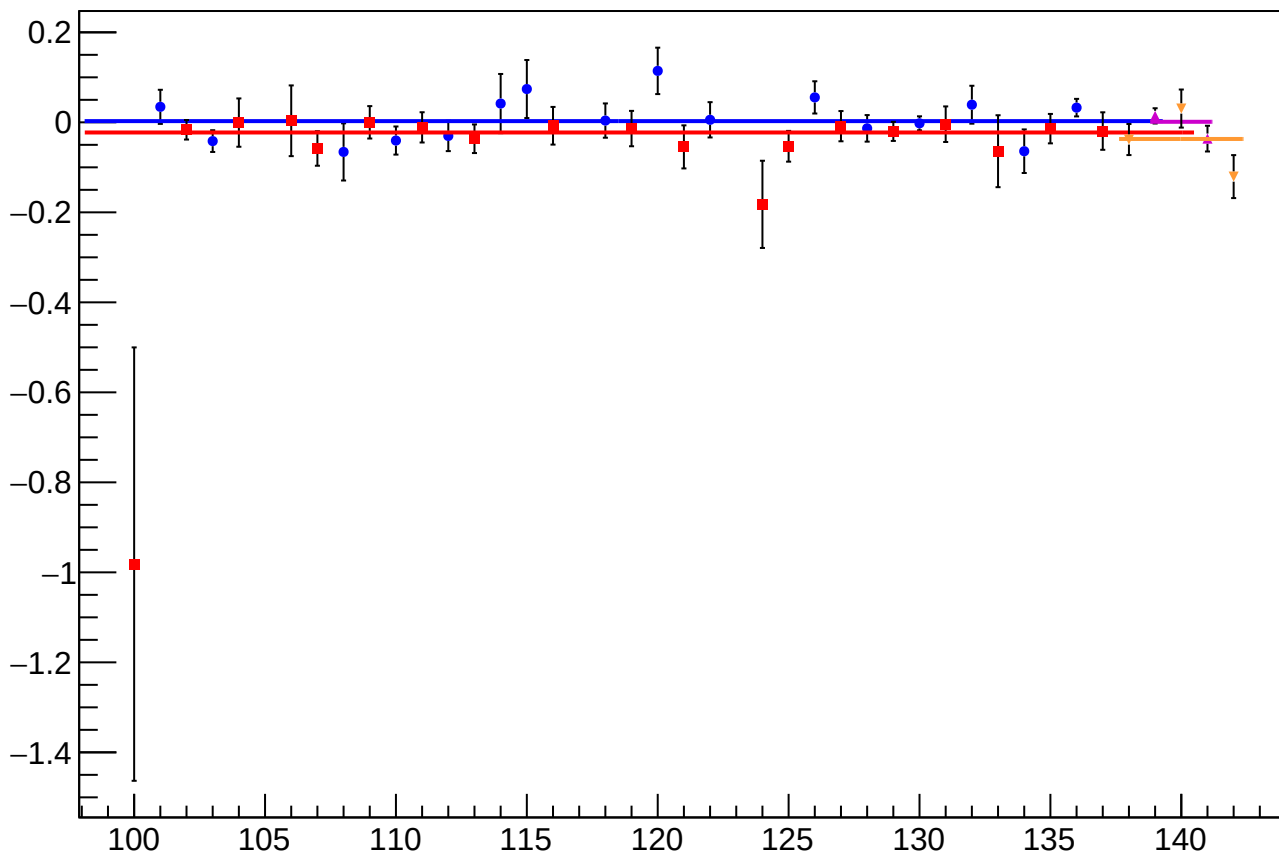
Right: 0.000+/-0.000 χ^2/NDF : 3472471.7/34

In: 0.000+/-0.000 χ^2/NDF : 2145759.0/17

Out: 0.000+/-0.000 χ^2/NDF : 3293277.4/21

All: 0.000+/-0.000 χ^2/NDF : 5605054.9/39

asym_sam_1357_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.008 $\chi^2/\text{NDF}: 22.0/15$

Left Out: -0.037 ± 0.023 $\chi^2/\text{NDF}: 5.6/2$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: 0.001 ± 0.015 $\chi^2/\text{NDF}: 2.3/1$

Left: -0.010 ± 0.012 $\chi^2/\text{NDF}: 9.9/4$

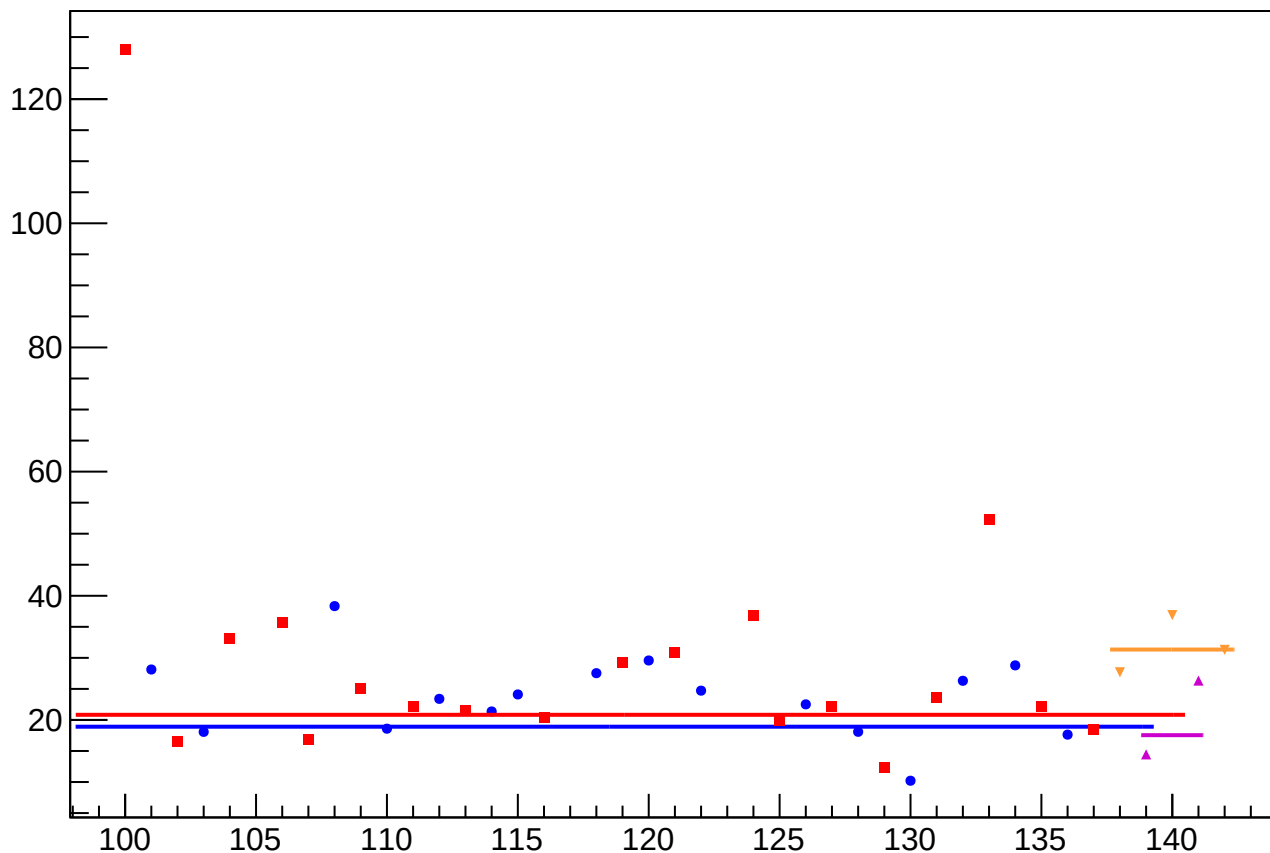
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: 0.002 ± 0.007 $\chi^2/\text{NDF}: 24.3/17$

Out: -0.024 ± 0.008 $\chi^2/\text{NDF}: 16.7/21$

All: -0.009 ± 0.005 $\chi^2/\text{NDF}: 47.4/39$

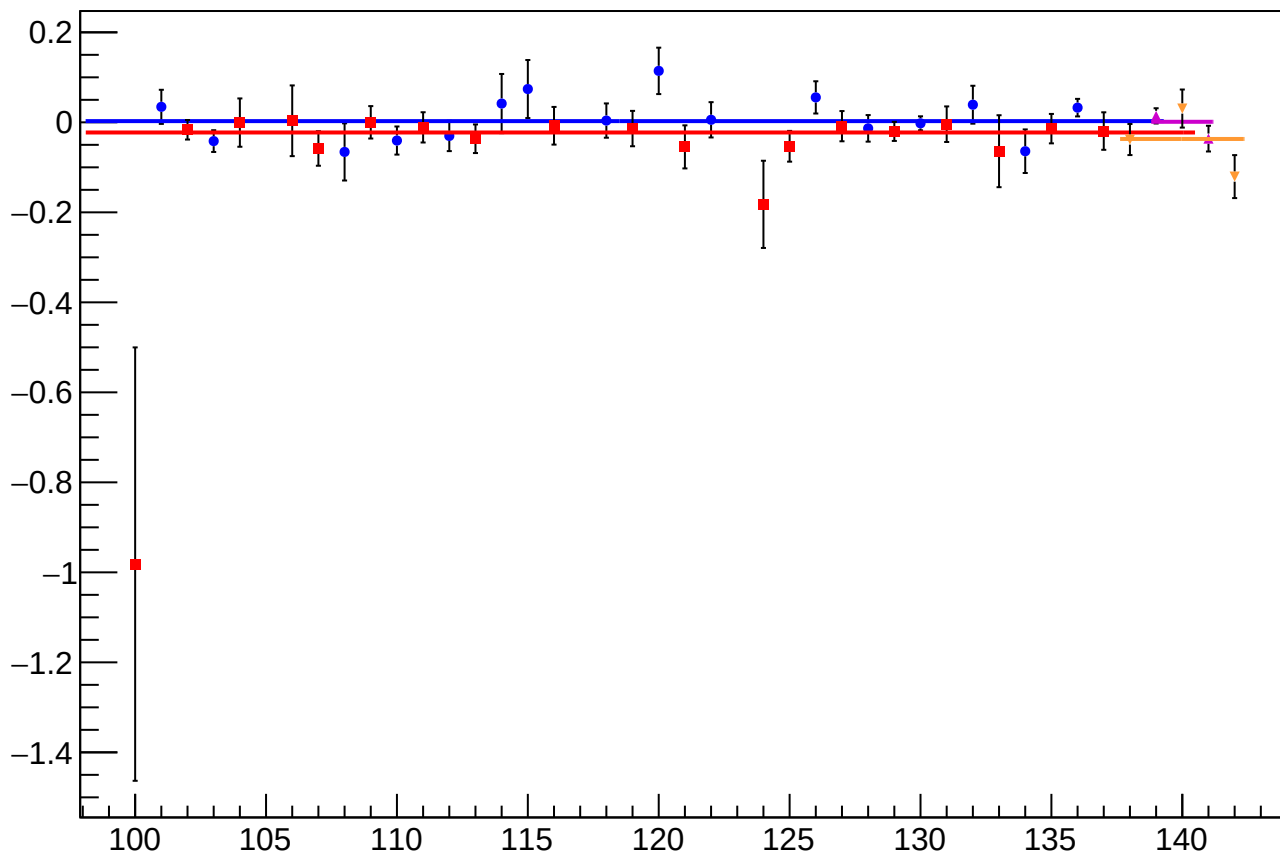
asym_sam_1357_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 18.911+/-0.006 χ^2/NDF : 1390349.2/15
 Left Out: 31.340+/-0.016 χ^2/NDF : 56985.6/2
 Right Out: 20.826+/-0.006 χ^2/NDF : 1291541.1/18
 Left In: 17.547+/-0.010 χ^2/NDF : 255500.4/1

Left: 21.423+/-0.009 χ^2/NDF : 815081.2/4
 Right: 19.793+/-0.004 χ^2/NDF : 2737339.0/34
 In: 18.608+/-0.005 χ^2/NDF : 1659451.4/17
 Out: 22.045+/-0.006 χ^2/NDF : 1707582.9/21
 All: 20.081+/-0.004 χ^2/NDF : 3581020.1/39

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.008 $\chi^2/\text{NDF}: 22.0/15$

Left Out: -0.037 ± 0.023 $\chi^2/\text{NDF}: 5.6/2$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: 0.001 ± 0.015 $\chi^2/\text{NDF}: 2.3/1$

Left: -0.010 ± 0.012 $\chi^2/\text{NDF}: 9.9/4$

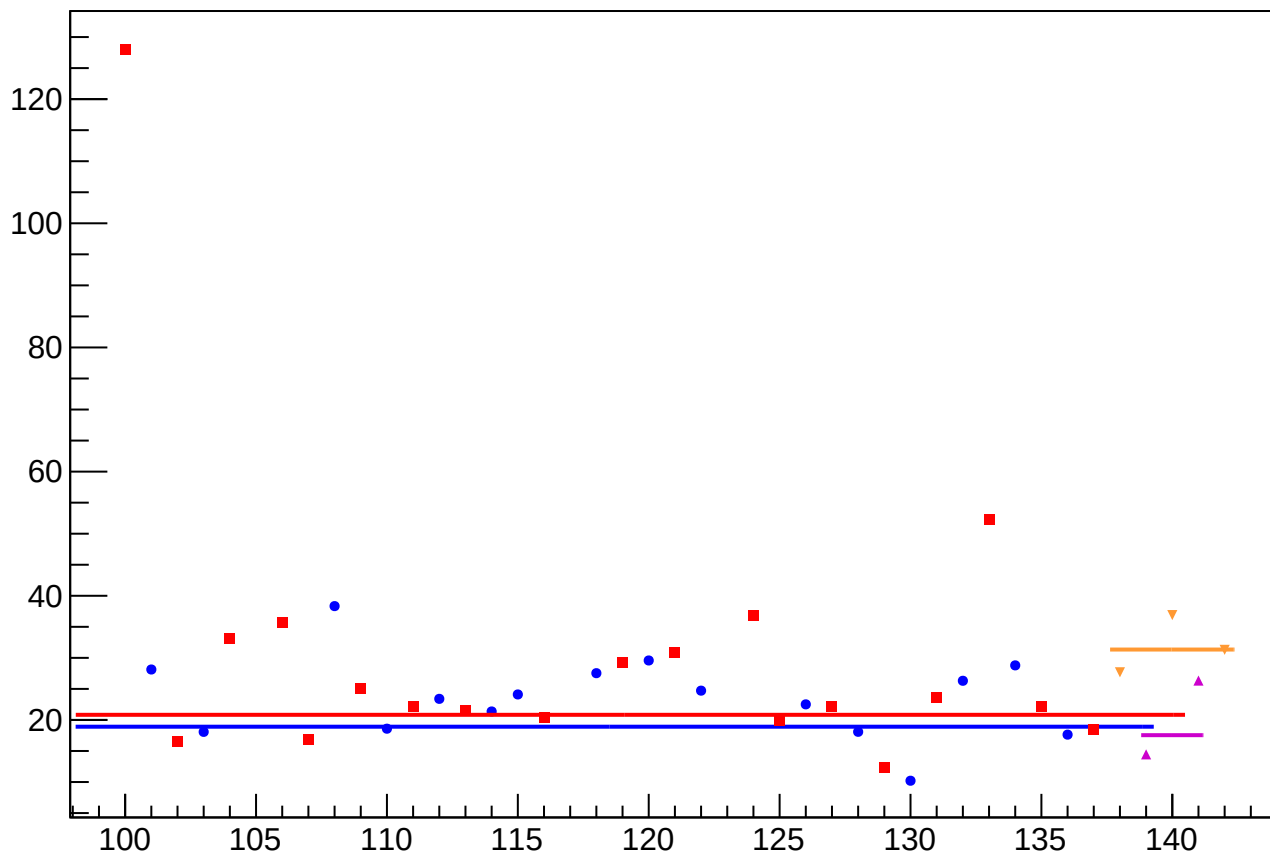
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: 0.002 ± 0.007 $\chi^2/\text{NDF}: 24.3/17$

Out: -0.024 ± 0.008 $\chi^2/\text{NDF}: 16.7/21$

All: -0.009 ± 0.005 $\chi^2/\text{NDF}: 47.4/39$

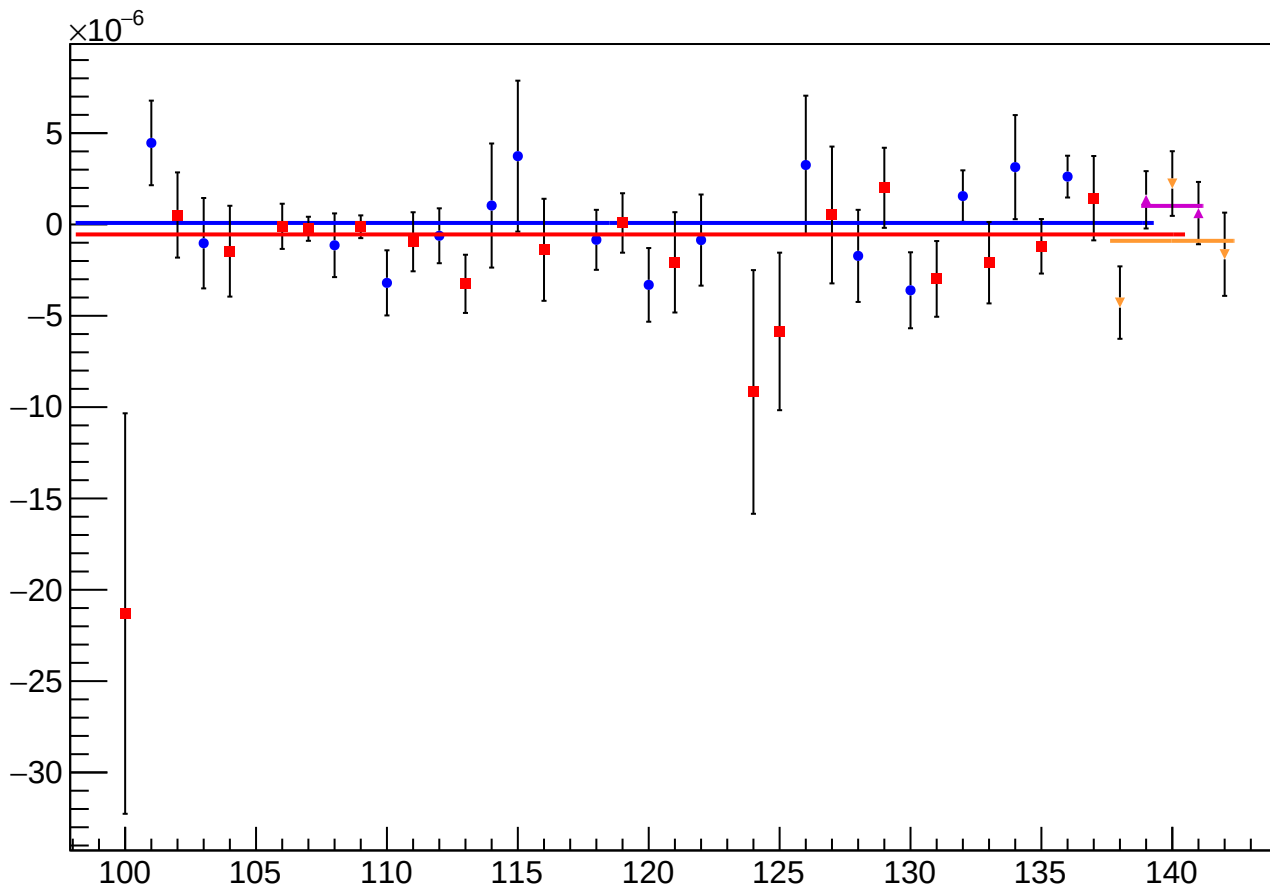
asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 18.911+/-0.006 χ^2/NDF : 1390349.2/15
 Left Out: 31.340+/-0.016 χ^2/NDF : 56985.6/2
 Right Out: 20.826+/-0.006 χ^2/NDF : 1291541.1/18
 Left In: 17.547+/-0.010 χ^2/NDF : 255500.4/1

Left: 21.423+/-0.009 χ^2/NDF : 815081.2/4
 Right: 19.793+/-0.004 χ^2/NDF : 2737339.0/34
 In: 18.608+/-0.005 χ^2/NDF : 1659451.4/17
 Out: 22.045+/-0.006 χ^2/NDF : 1707582.9/21
 All: 20.081+/-0.004 χ^2/NDF : 3581020.1/39

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.5/15

Left Out: -0.000+/-0.000 χ^2/NDF : 6.2/2

Right Out: -0.000+/-0.000 χ^2/NDF : 15.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.1/1

Left: 0.000+/-0.000 χ^2/NDF : 7.6/4

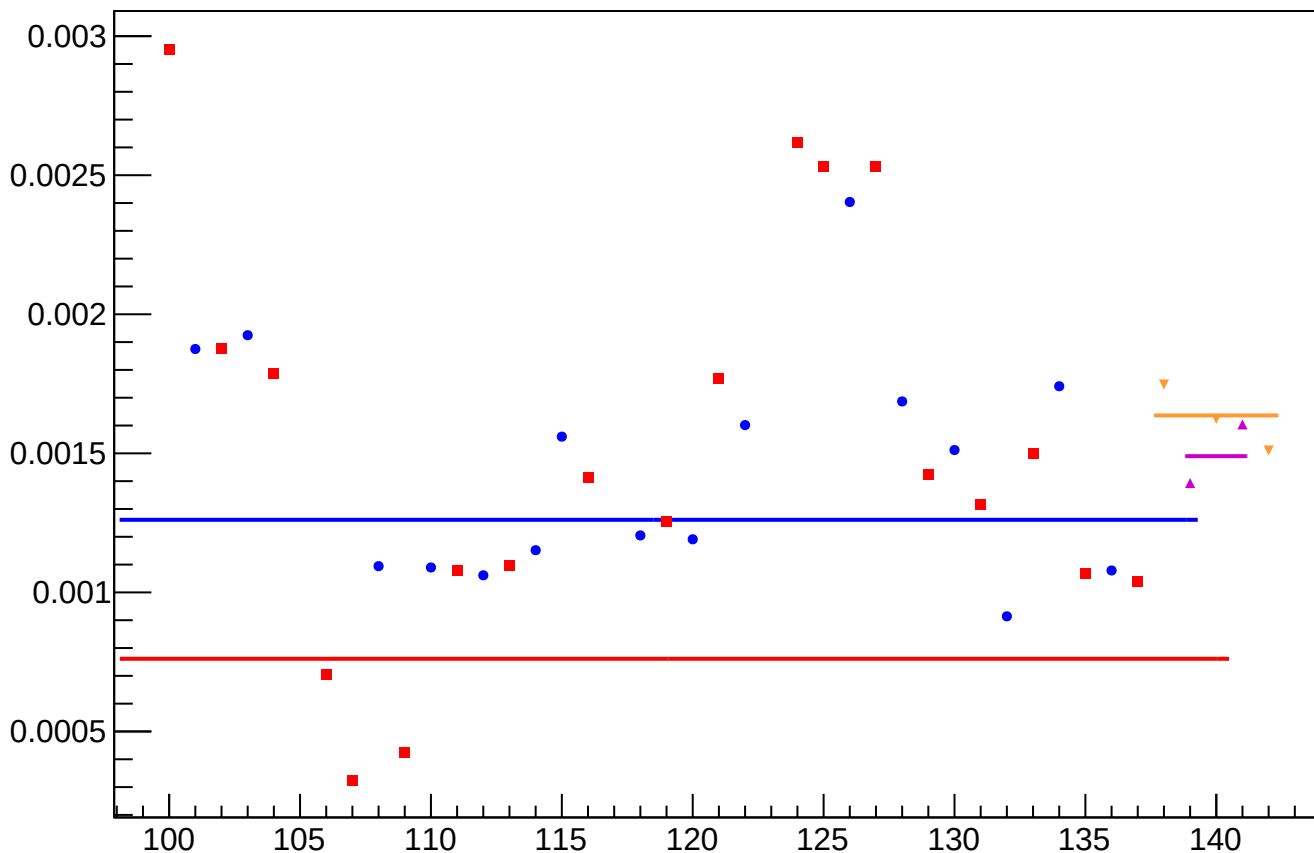
Right: -0.000+/-0.000 χ^2/NDF : 40.3/34

In: 0.000+/-0.000 χ^2/NDF : 24.2/17

Out: -0.000+/-0.000 χ^2/NDF : 21.9/21

All: -0.000+/-0.000 χ^2/NDF : 48.1/39

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 907342.5/15

Left Out: 0.002+/-0.000 χ^2/NDF :12503.4/2

Right Out: 0.001+/-0.000 χ^2/NDF : 4672607.8/18

Left In: 0.001+/-0.000 χ^2/NDF :16520.5/1

Left: 0.002+/-0.000 χ^2/NDF : 45267.3/4

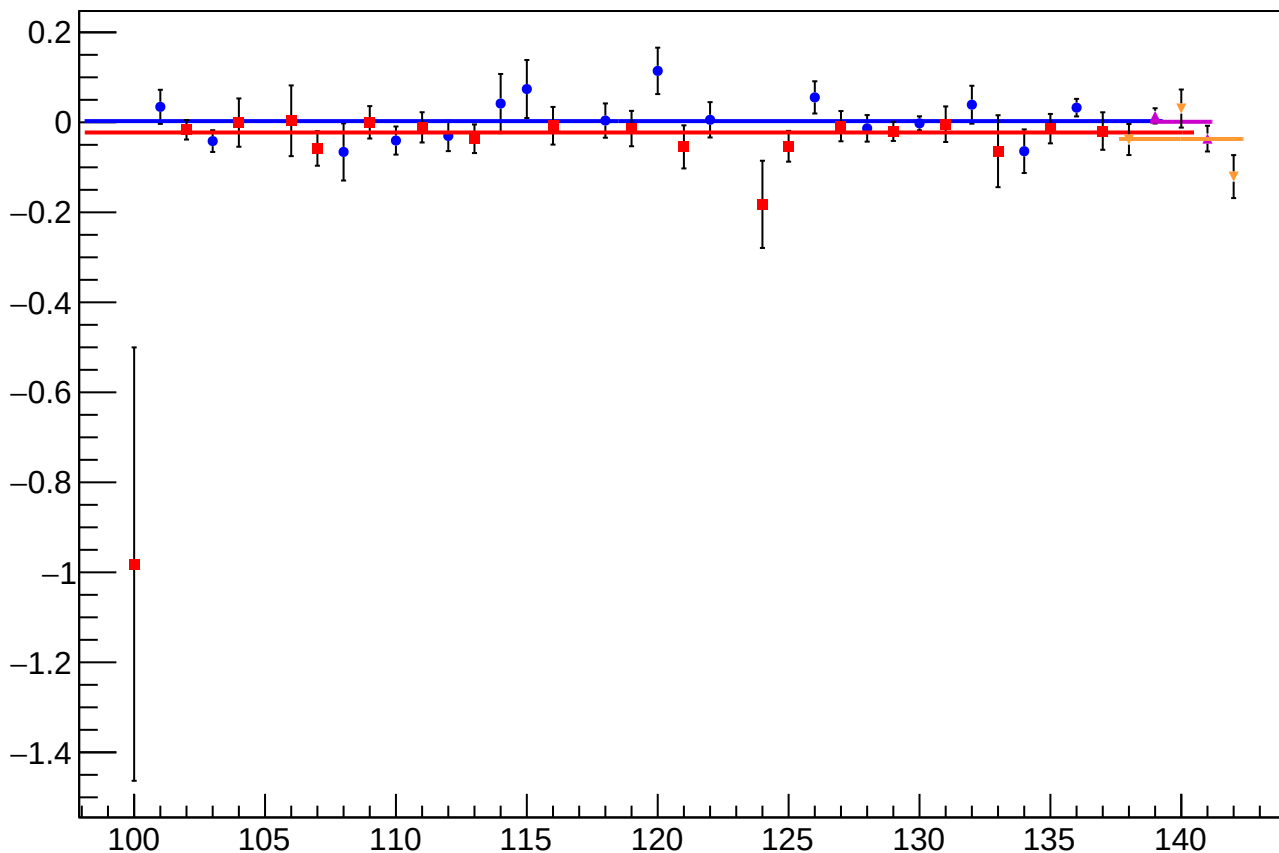
Right: 0.001+/-0.000 χ^2/NDF : 6998069.8/34

In: 0.001+/-0.000 χ^2/NDF :990489.6/17

Out: 0.001+/-0.000 χ^2/NDF :5763684.9/21

All: 0.001+/-0.000 χ^2/NDF : 8155292.4/39

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.008 $\chi^2/\text{NDF}: 22.0/15$

Left Out: -0.037 ± 0.023 $\chi^2/\text{NDF}: 5.6/2$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: 0.001 ± 0.015 $\chi^2/\text{NDF}: 2.3/1$

Left: -0.010 ± 0.012 $\chi^2/\text{NDF}: 9.9/4$

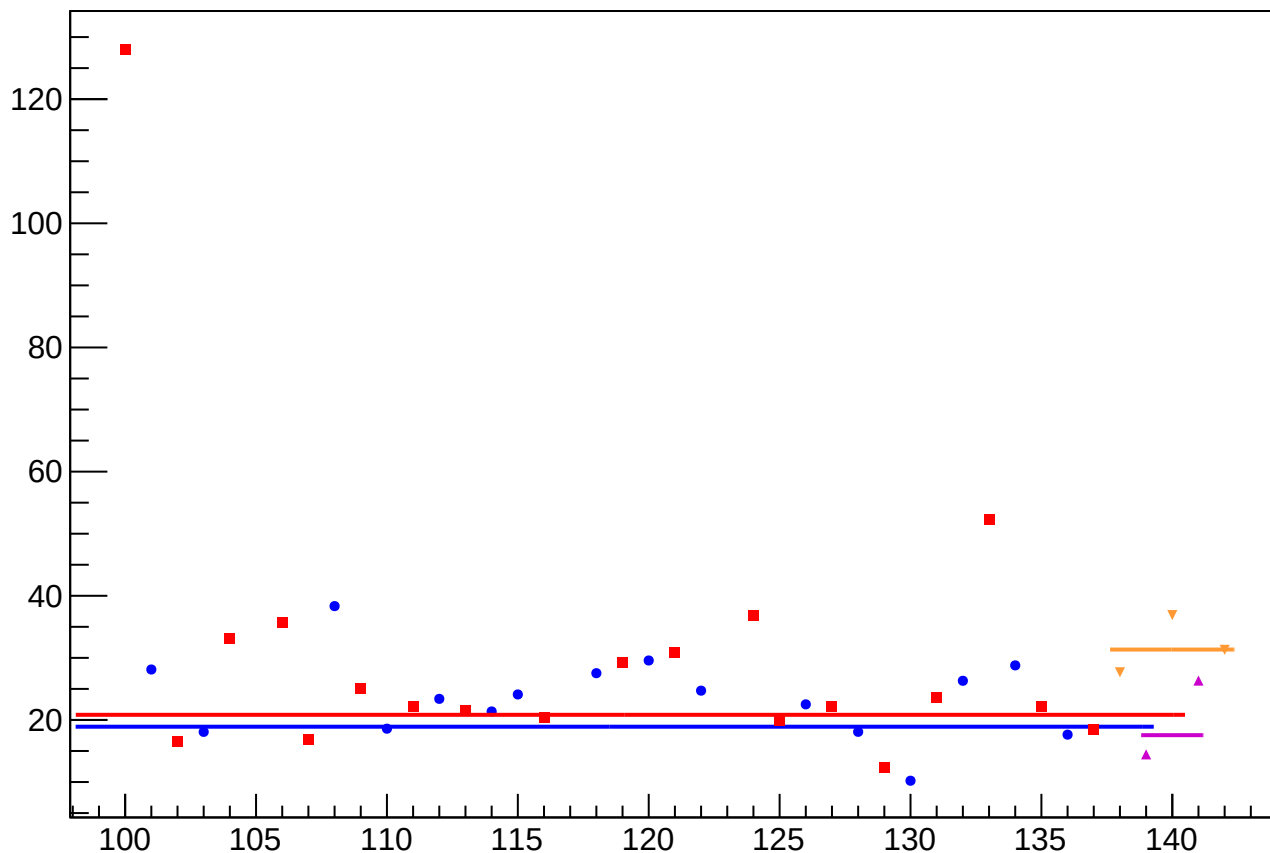
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: 0.002 ± 0.007 $\chi^2/\text{NDF}: 24.3/17$

Out: -0.024 ± 0.008 $\chi^2/\text{NDF}: 16.7/21$

All: -0.009 ± 0.005 $\chi^2/\text{NDF}: 47.4/39$

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 18.912 ± 0.006 χ^2/NDF : 1390233.4/15

Left Out: 31.341 ± 0.016 χ^2/NDF : 56986.9/2

Right Out: 20.827 ± 0.006 χ^2/NDF : 1291537.3/18

Left In: 17.548 ± 0.010 χ^2/NDF : 255485.3/1

Left: 21.424 ± 0.009 χ^2/NDF : 815030.1/4

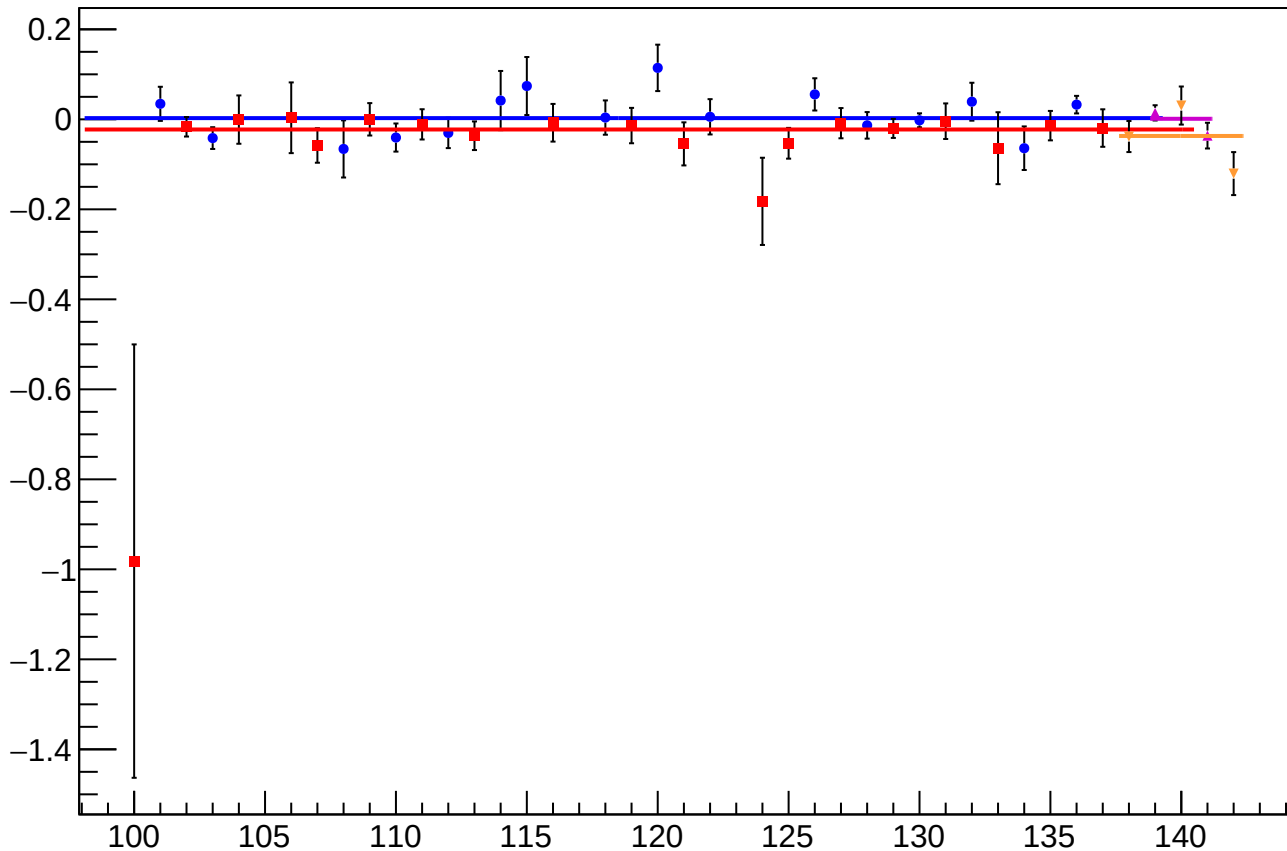
Right: 19.793 ± 0.004 χ^2/NDF : 2737206.7/34

In: 18.608 ± 0.005 χ^2/NDF : 1659313.3/17

Out: 22.046 ± 0.006 χ^2/NDF : 1707589.8/21

All: 20.082 ± 0.004 χ^2/NDF : 3580851.6/39

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.008 $\chi^2/\text{NDF}: 22.0/15$

Left Out: -0.037 ± 0.023 $\chi^2/\text{NDF}: 5.6/2$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: 0.001 ± 0.015 $\chi^2/\text{NDF}: 2.3/1$

Left: -0.010 ± 0.012 $\chi^2/\text{NDF}: 9.9/4$

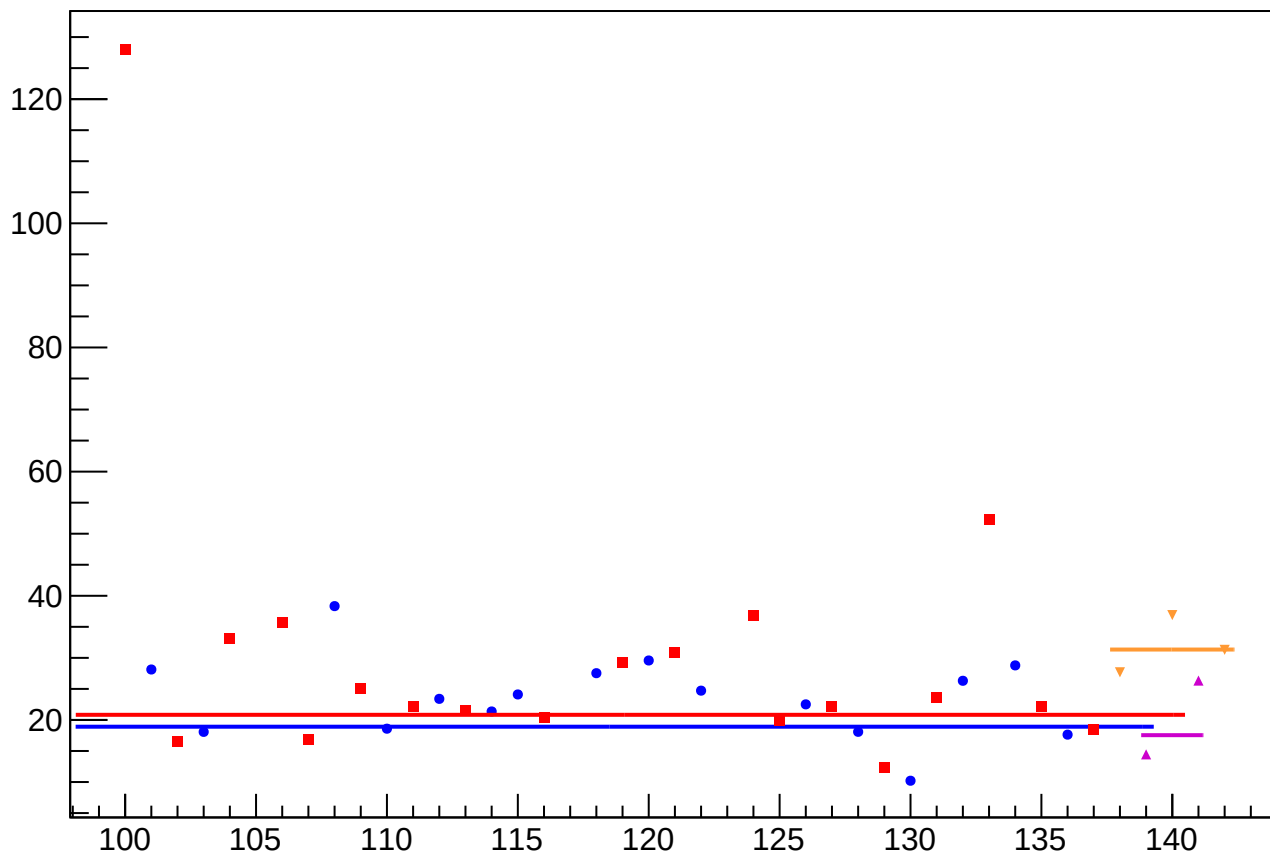
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: 0.002 ± 0.007 $\chi^2/\text{NDF}: 24.3/17$

Out: -0.024 ± 0.008 $\chi^2/\text{NDF}: 16.7/21$

All: -0.009 ± 0.005 $\chi^2/\text{NDF}: 47.4/39$

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 18.912+/-0.006 χ^2/NDF : 1390233.4/15

Left Out: 31.341+/-0.016 χ^2/NDF : 56986.9/2

Right Out: 20.827+/-0.006 χ^2/NDF : 1291537.3/18

Left In: 17.548+/-0.010 χ^2/NDF : 255485.3/1

Left: 21.424+/-0.009 χ^2/NDF : 815030.1/4

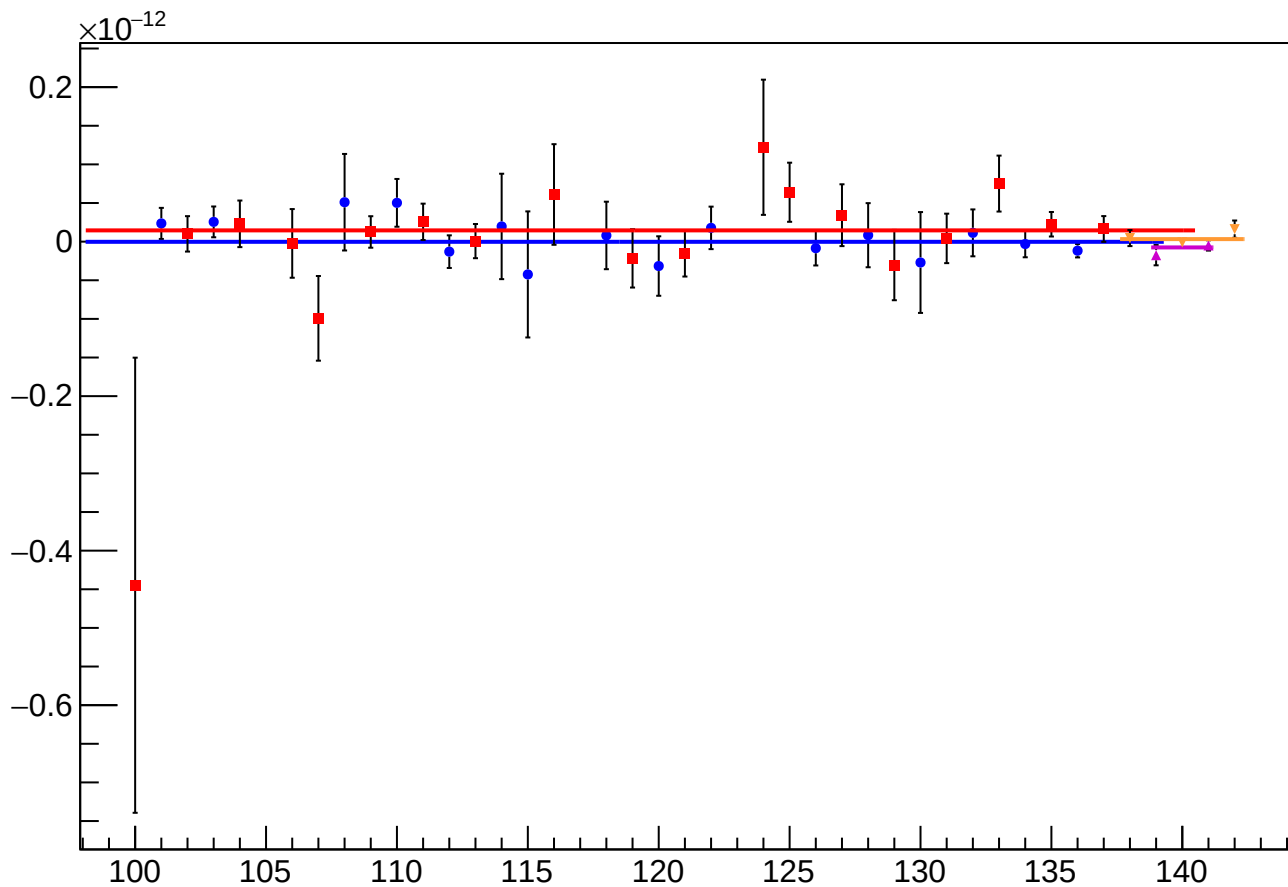
Right: 19.793+/-0.004 χ^2/NDF : 2737206.7/34

In: 18.608+/-0.005 χ^2/NDF : 1659313.3/17

Out: 22.046+/-0.006 χ^2/NDF : 1707589.8/21

All: 20.082+/-0.004 χ^2/NDF : 3580851.6/39

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 10.5/15

Left Out: 0.000+/-0.000 χ^2 /NDF:1.8/2

Right Out: 0.000+/-0.000 χ^2 /NDF: 17.6/18

Left In: -0.000+/-0.000 χ^2 /NDF:0.7/1

Left: -0.000+/-0.000 χ^2 /NDF: 4.6/4

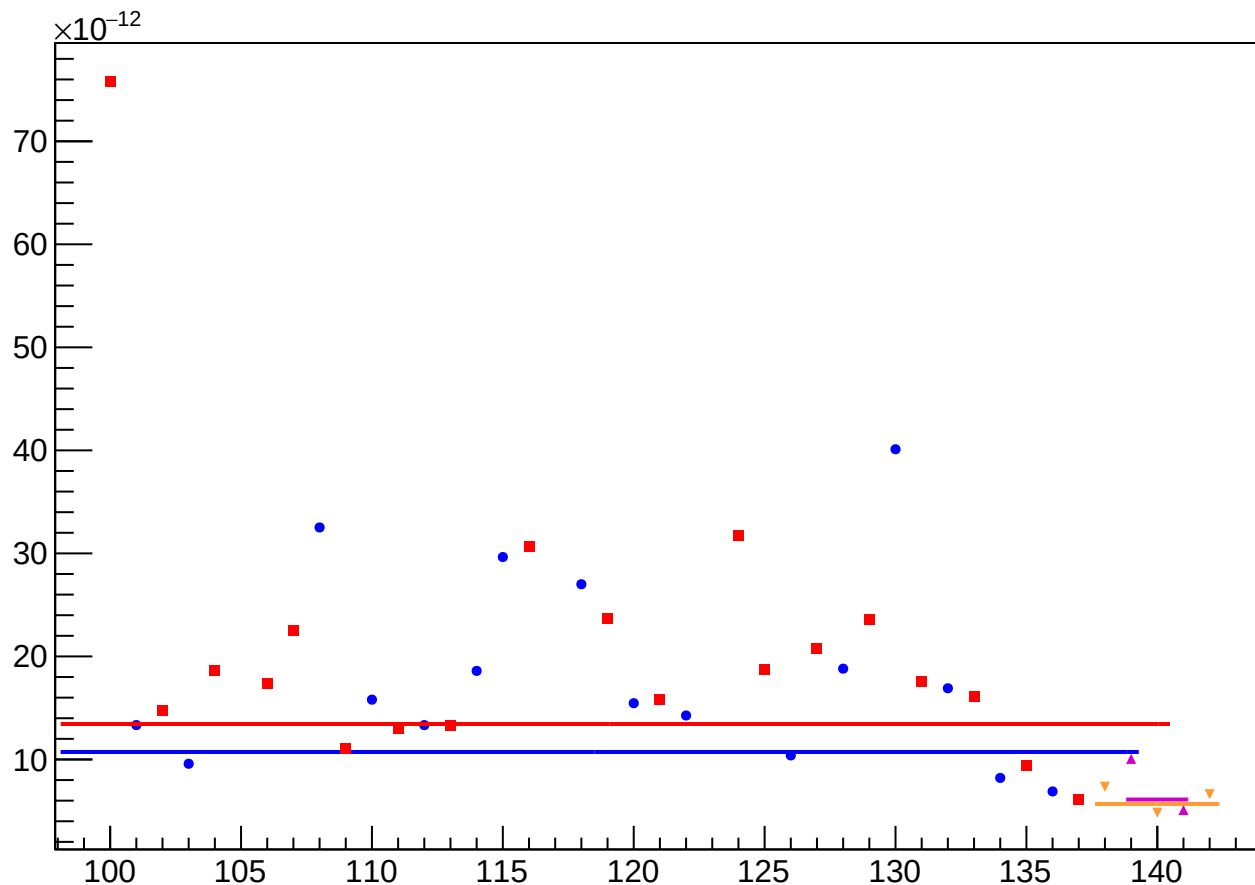
Right: 0.000+/-0.000 χ^2 /NDF: 31.1/34

In: -0.000+/-0.000 χ^2 /NDF:12.0/17

Out: 0.000+/-0.000 χ^2 /NDF:21.4/21

All: 0.000+/-0.000 χ^2 /NDF: 37.2/39

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1836547.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 104572.6/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1402984.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 227418.1/1

Left: 0.000+/-0.000 χ^2/NDF : 338357.2/4

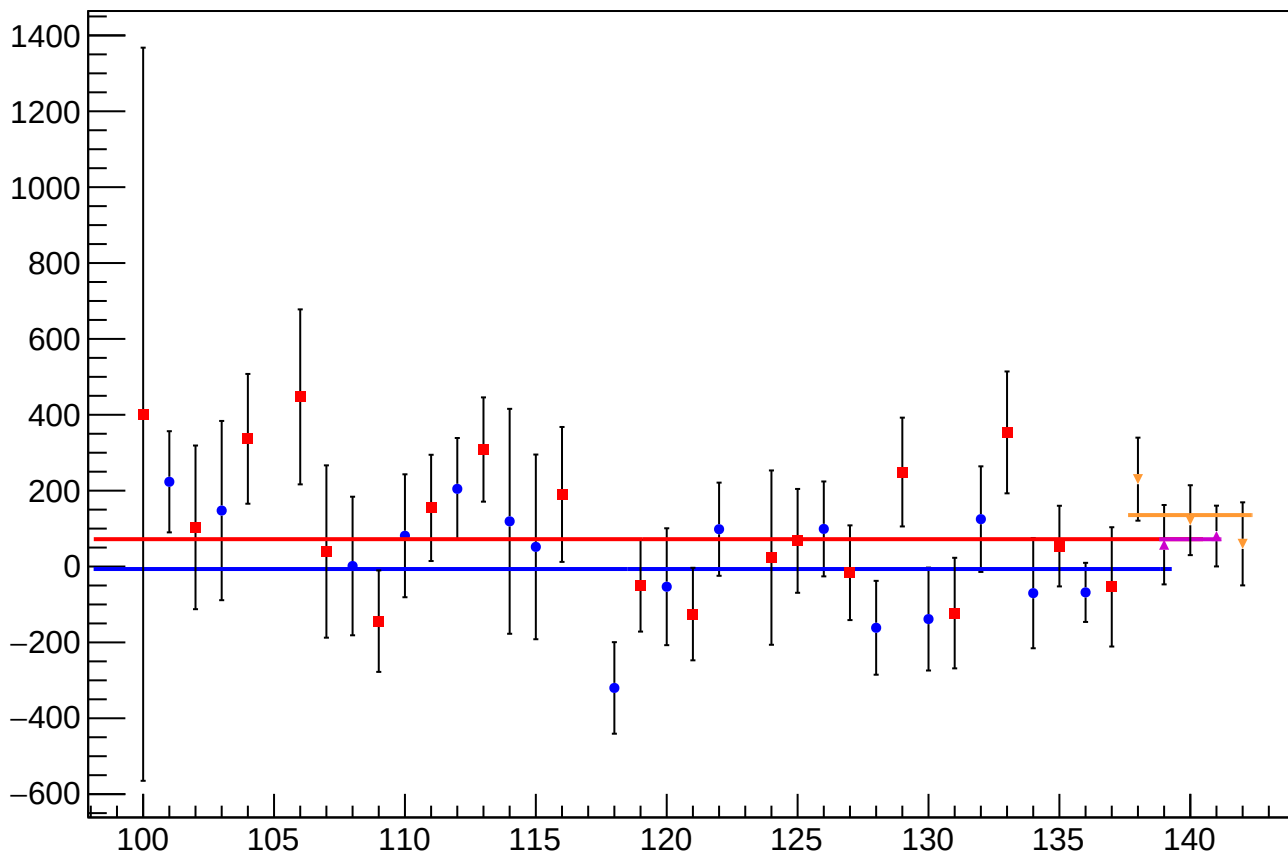
Right: 0.000+/-0.000 χ^2/NDF : 3438709.3/34

In: 0.000+/-0.000 χ^2/NDF : 2703083.8/17

Out: 0.000+/-0.000 χ^2/NDF : 3347006.6/21

All: 0.000+/-0.000 χ^2/NDF : 6051992.5/39

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: -6.559+/-34.286 χ^2/NDF : 18.9/15

Left Out: 135.611+/-59.260 χ^2/NDF : 1.3/2

Right Out: 72.124+/-34.883 χ^2/NDF : 22.8/18

Left In: 71.940+/-63.609 χ^2/NDF : 0.0/1

Left: 106.026+/-43.359 χ^2/NDF : 1.8/4

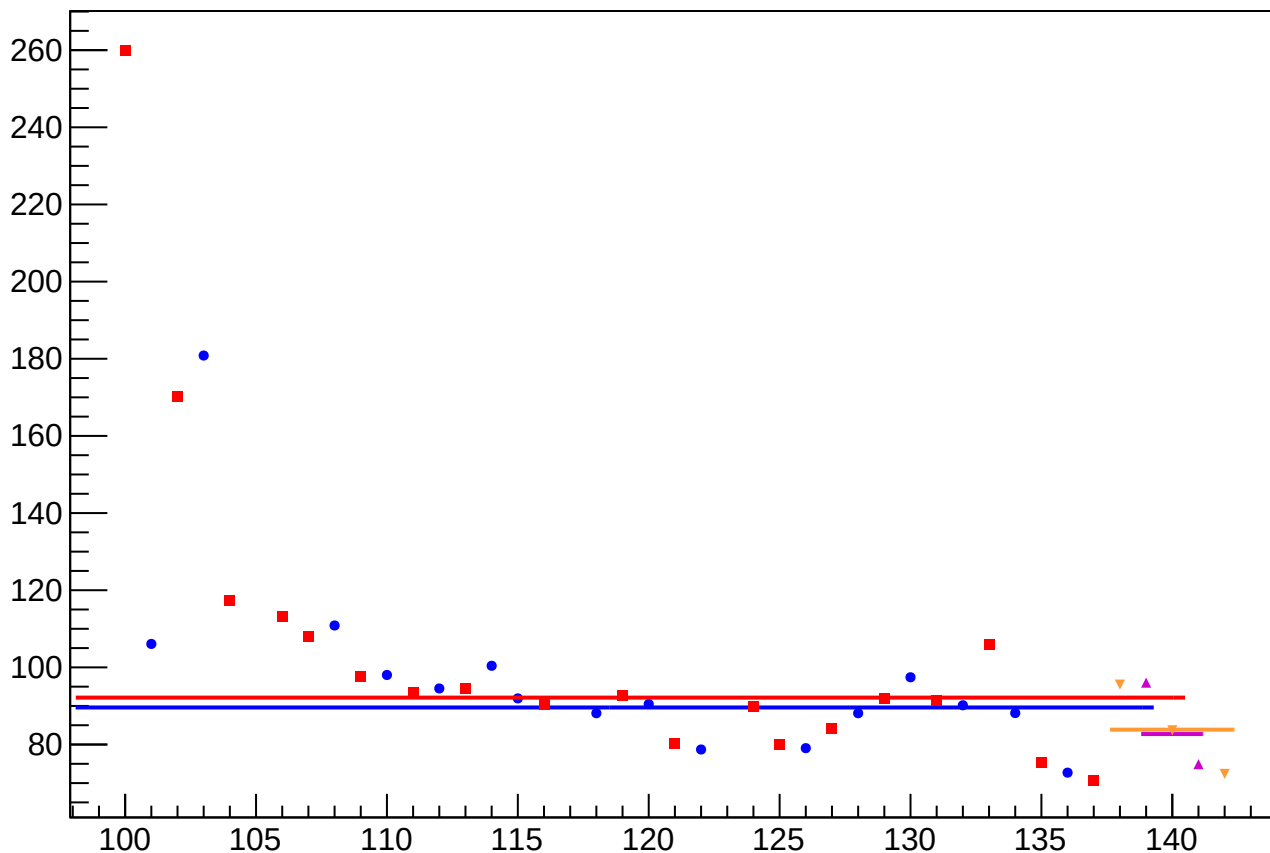
Right: 32.104+/-24.452 χ^2/NDF : 44.3/34

In: 11.114+/-30.181 χ^2/NDF : 20.1/17

Out: 88.461+/-30.061 χ^2/NDF : 24.9/21

All: 49.941+/-21.299 χ^2/NDF : 48.3/39

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 89.604+/-0.024 χ^2/NDF : 498380.8/15

Left Out: 83.852+/-0.042 χ^2/NDF : 44733.8/2

Right Out: 92.161+/-0.025 χ^2/NDF : 542074.4/18

Left In: 82.715+/-0.045 χ^2/NDF : 51421.8/1

Left: 83.324+/-0.031 χ^2/NDF : 96498.0/4

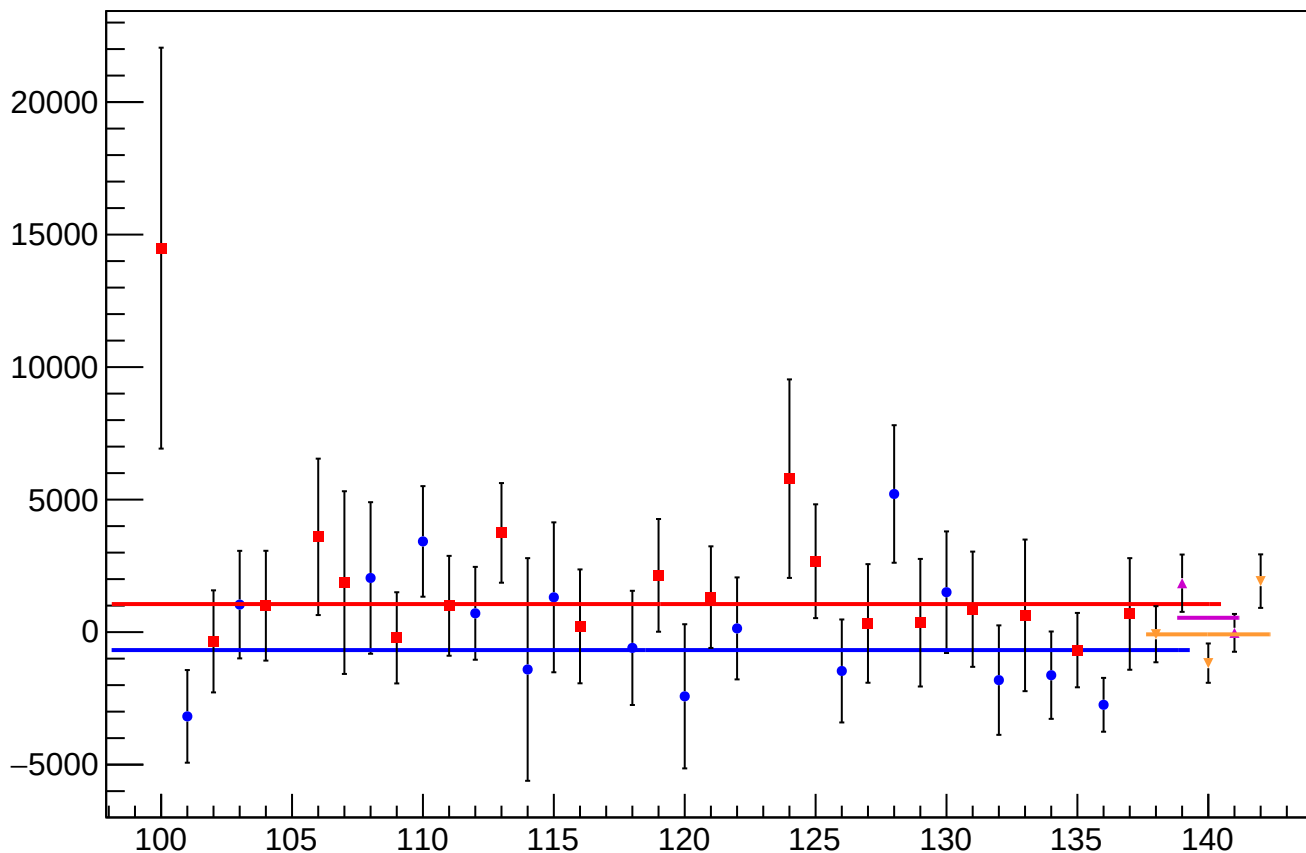
Right: 90.860+/-0.017 χ^2/NDF : 1045922.9/34

In: 88.053+/-0.021 χ^2/NDF : 567980.6/17

Out: 90.023+/-0.021 χ^2/NDF : 616010.0/21

All: 89.042+/-0.015 χ^2/NDF : 1188268.7/39

asym_sam_2468_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -677.381+/-486.480 χ^2/NDF : 20.3/15

Left Out: -83.960+/-520.578 χ^2/NDF : 6.1/2

Right Out: 1058.761+/-496.350 χ^2/NDF : 11.5/18

Left In: 540.870+/-595.634 χ^2/NDF : 2.1/1

Left: 186.629+/-391.971 χ^2/NDF : 8.8/4

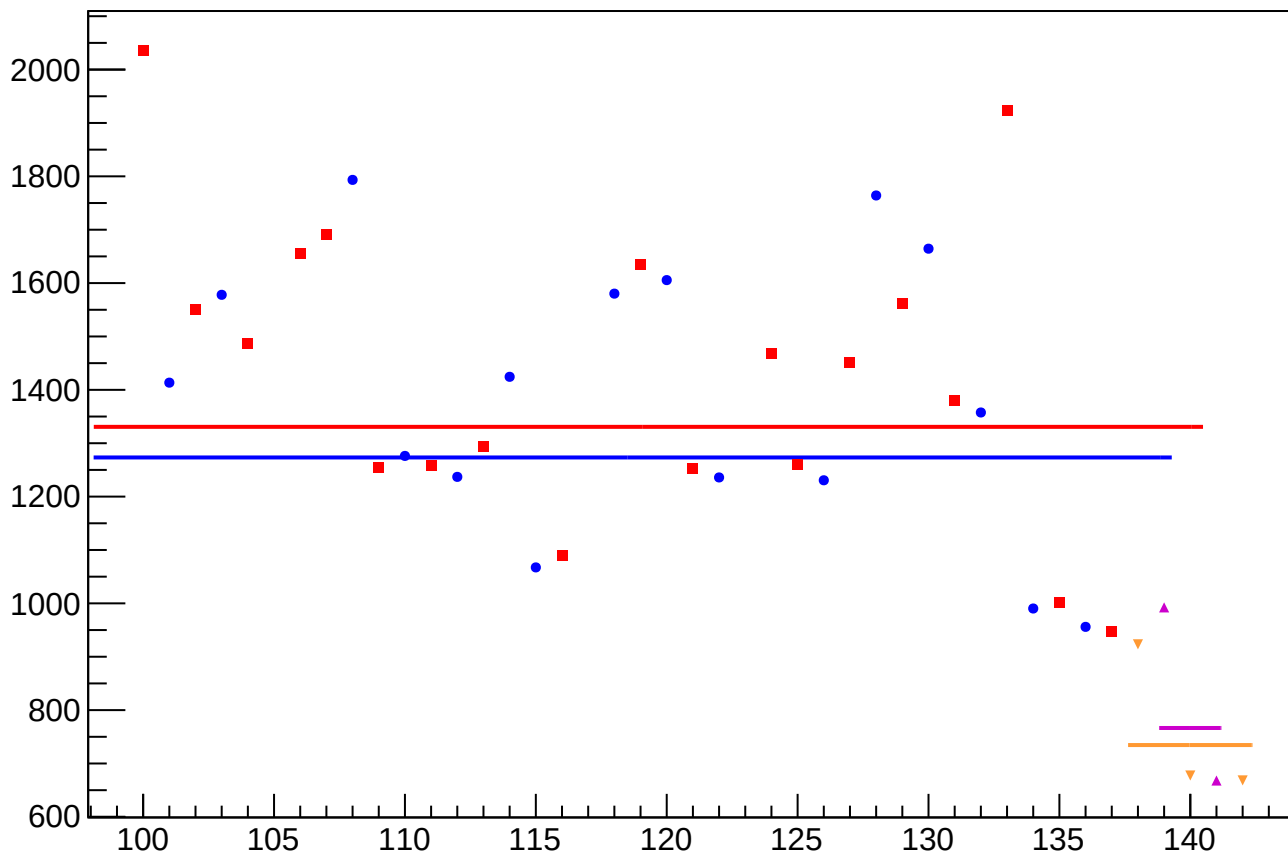
Right: 173.256+/-347.430 χ^2/NDF : 38.0/34

In: -189.904+/-376.780 χ^2/NDF : 24.9/17

Out: 514.609+/-359.232 χ^2/NDF : 20.1/21

All: 179.140+/-259.998 χ^2/NDF : 46.8/39

asym_sam_2468_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1273.324+/-0.344 χ^2/NDF : 597520.6/15

Left Out: 734.546+/-0.368 χ^2/NDF : 84017.1/2

Right Out: 1330.683+/-0.351 χ^2/NDF : 470703.7/18

Left In: 766.513+/-0.421 χ^2/NDF : 125385.0/1

Left: 748.390+/-0.277 χ^2/NDF : 212668.0/4

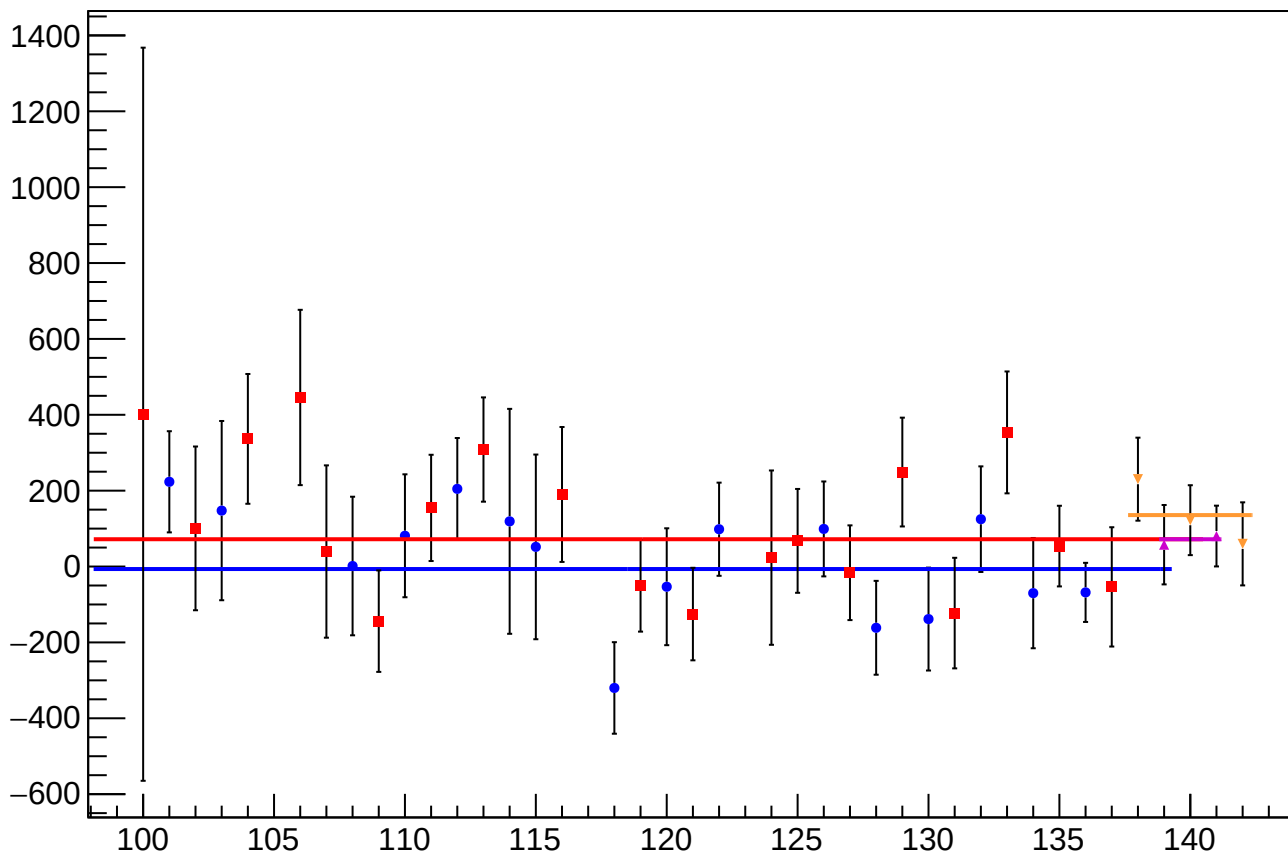
Right: 1301.428+/-0.246 χ^2/NDF : 1081847.0/34

In: 1070.526+/-0.266 χ^2/NDF : 1591485.6/17

Out: 1046.809+/-0.254 χ^2/NDF : 1928525.7/21

All: 1058.103+/-0.184 χ^2/NDF : 3524162.4/39

cor_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: -6.568 $\pm$ 34.286 χ^2 /NDF: 18.9/15

Left Out: 135.625 $\pm$ 59.260 χ^2 /NDF:1.3/2

Right Out: 71.981 $\pm$ 34.885 χ^2 /NDF: 22.8/18

Left In: 71.951 $\pm$ 63.609 χ^2 /NDF:0.0/1

Left: 106.039 $\pm$ 43.359 χ^2 /NDF: 1.8/4

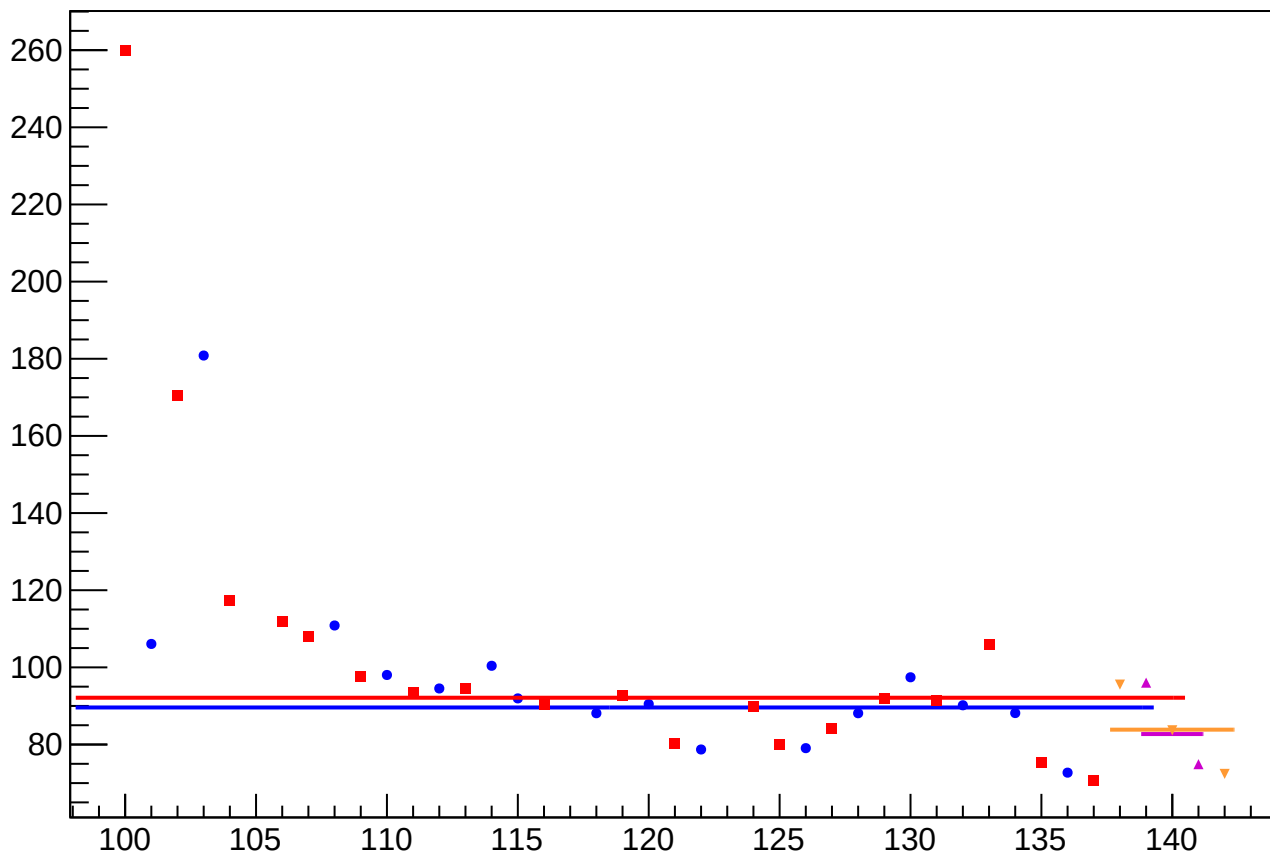
Right: 32.026 $\pm$ 24.453 χ^2 /NDF: 44.3/34

In: 11.109 $\pm$ 30.181 χ^2 /NDF:20.1/17

Out: 88.360 $\pm$ 30.063 χ^2 /NDF:24.9/21

All: 49.886 $\pm$ 21.299 χ^2 /NDF: 48.3/39

cor_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 89.604 $\pm$ 0.024 χ^2 /NDF: 498384.4/15

Left Out: 83.852 $\pm$ 0.042 χ^2 /NDF: 44733.8/2

Right Out: 92.129 $\pm$ 0.025 χ^2 /NDF: 540308.7/18

Left In: 82.715 $\pm$ 0.045 χ^2 /NDF: 51421.8/1

Left: 83.324 $\pm$ 0.031 χ^2 /NDF: 96498.0/4

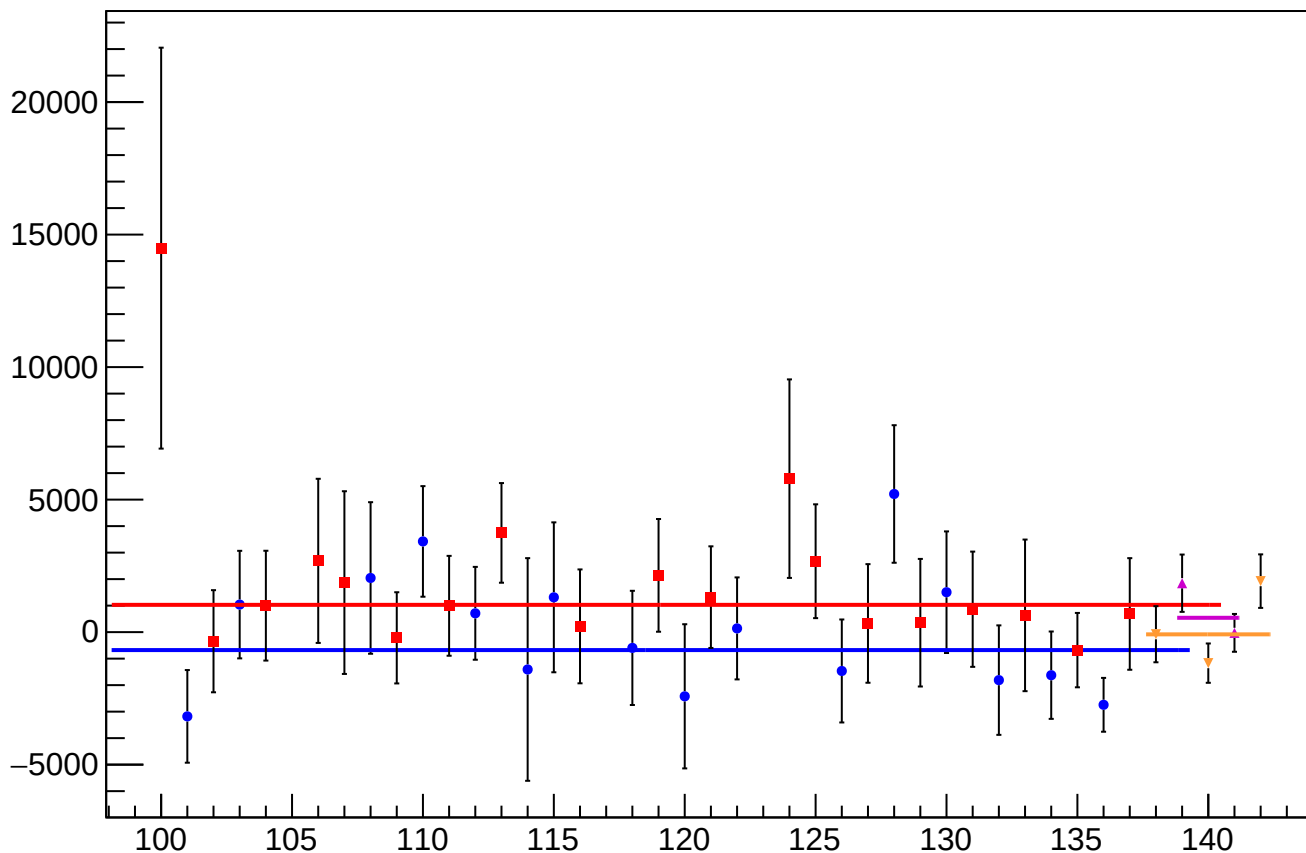
Right: 90.845 $\pm$ 0.017 χ^2 /NDF: 1044025.4/34

In: 88.053 $\pm$ 0.021 χ^2 /NDF: 567984.2/17

Out: 89.999 $\pm$ 0.021 χ^2 /NDF: 614020.4/21

All: 89.030 $\pm$ 0.015 χ^2 /NDF: 1186179.8/39

asym_sam_2468_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -677.345+/-486.482 χ^2/NDF : 20.3/15

Left Out: -83.937+/-520.577 χ^2/NDF : 6.1/2

Right Out: 1029.395+/-497.018 χ^2/NDF : 11.0/18

Left In: 540.885+/-595.635 χ^2/NDF : 2.1/1

Left: 186.648+/-391.971 χ^2/NDF : 8.8/4

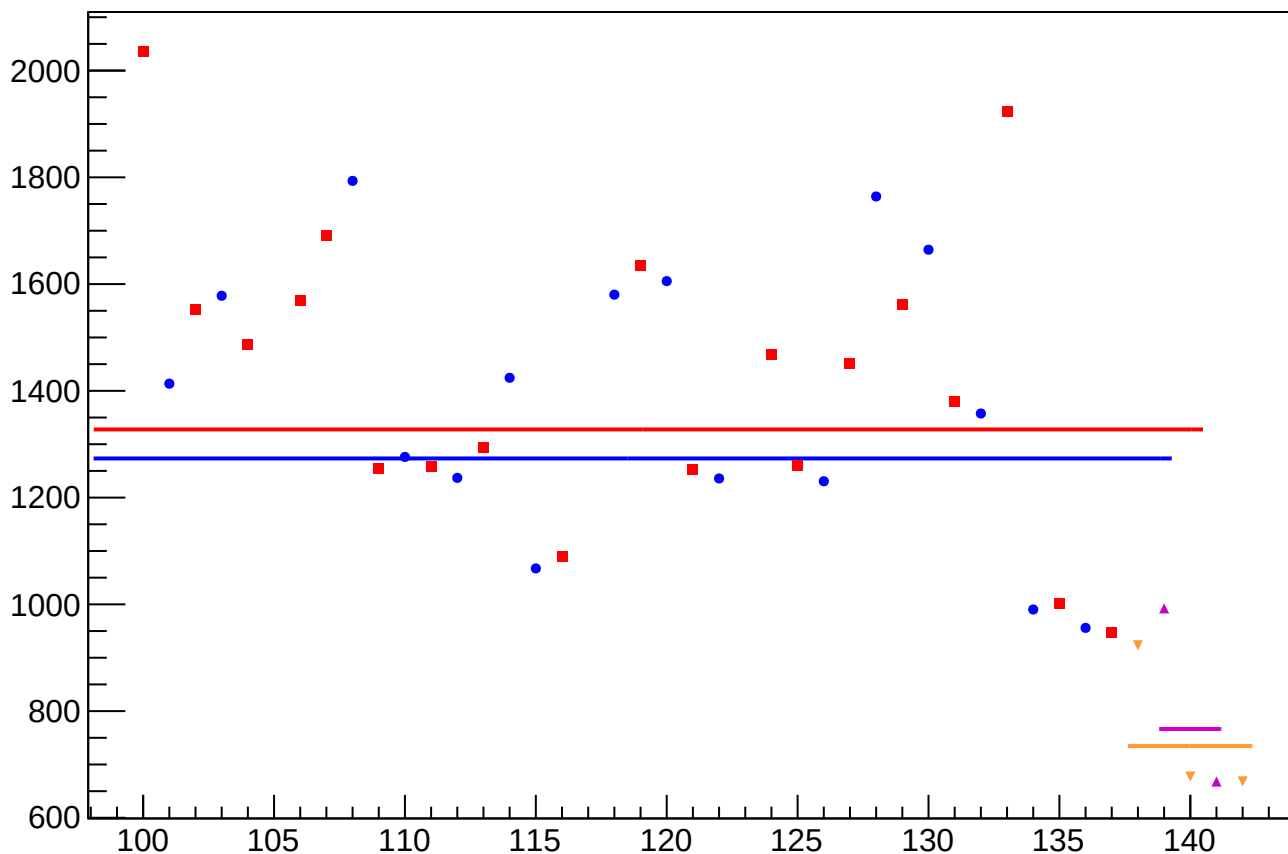
Right: 157.743+/-347.660 χ^2/NDF : 37.3/34

In: -189.875+/-376.781 χ^2/NDF : 24.9/17

Out: 498.491+/-359.485 χ^2/NDF : 19.5/21

All: 170.470+/-260.094 χ^2/NDF : 46.1/39

asym_sam_2468_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1273.327+/-0.344 χ^2/NDF : 597547.8/15

Left Out: 734.545+/-0.368 χ^2/NDF : 84017.3/2

Right Out: 1327.661+/-0.351 χ^2/NDF : 458481.2/18

Left In: 766.514+/-0.421 χ^2/NDF : 125383.7/1

Left: 748.390+/-0.277 χ^2/NDF : 212667.2/4

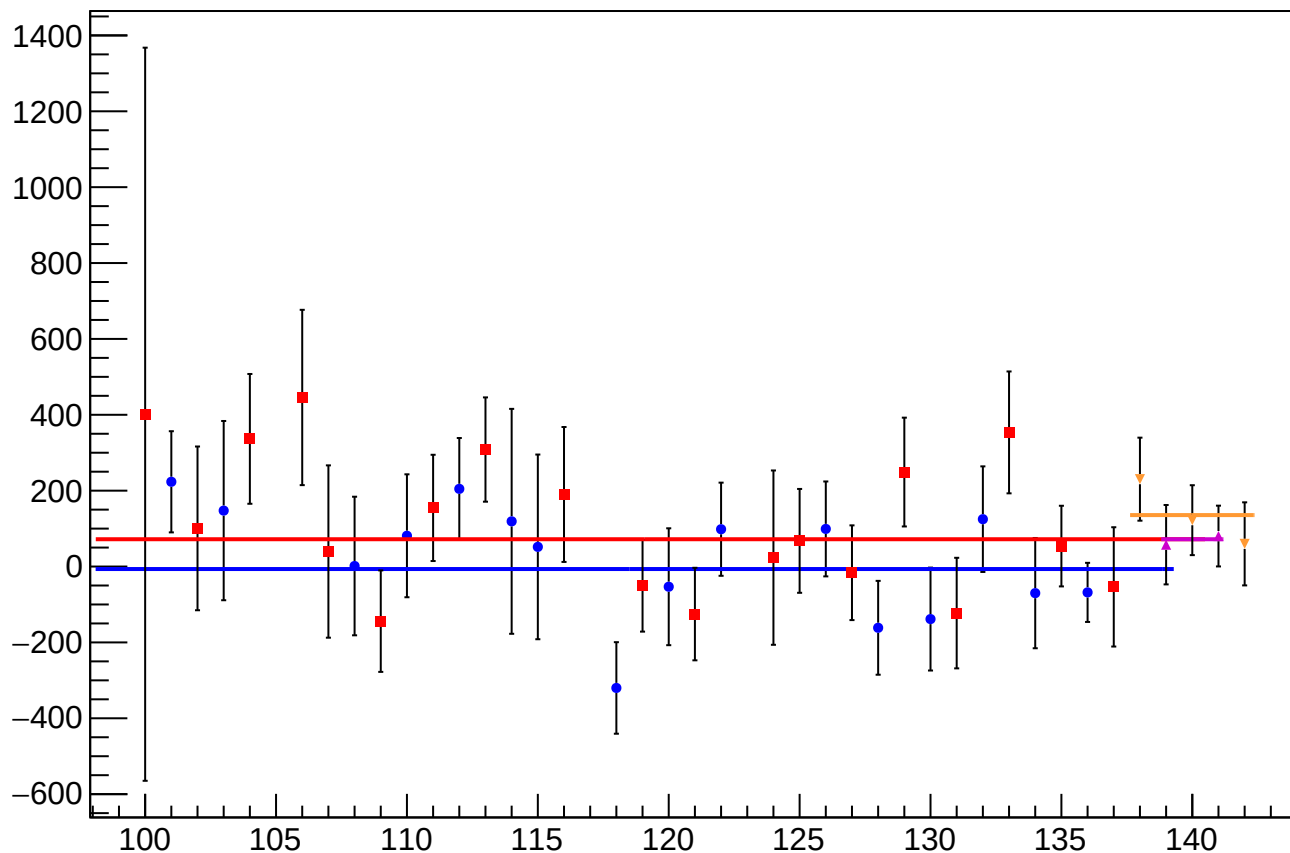
Right: 1299.912+/-0.246 χ^2/NDF : 1068235.5/34

In: 1070.528+/-0.266 χ^2/NDF : 1591517.2/17

Out: 1044.828+/-0.254 χ^2/NDF : 1900673.0/21

All: 1057.074+/-0.184 χ^2/NDF : 3497061.3/39

eigen_cor_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: -6.568+/-34.286 χ^2/NDF : 18.9/15

Left Out: 135.625+/-59.260 χ^2/NDF : 1.3/2

Right Out: 71.981+/-34.885 χ^2/NDF : 22.8/18

Left In: 71.951+/-63.609 χ^2/NDF : 0.0/1

Left: 106.039+/-43.359 χ^2/NDF : 1.8/4

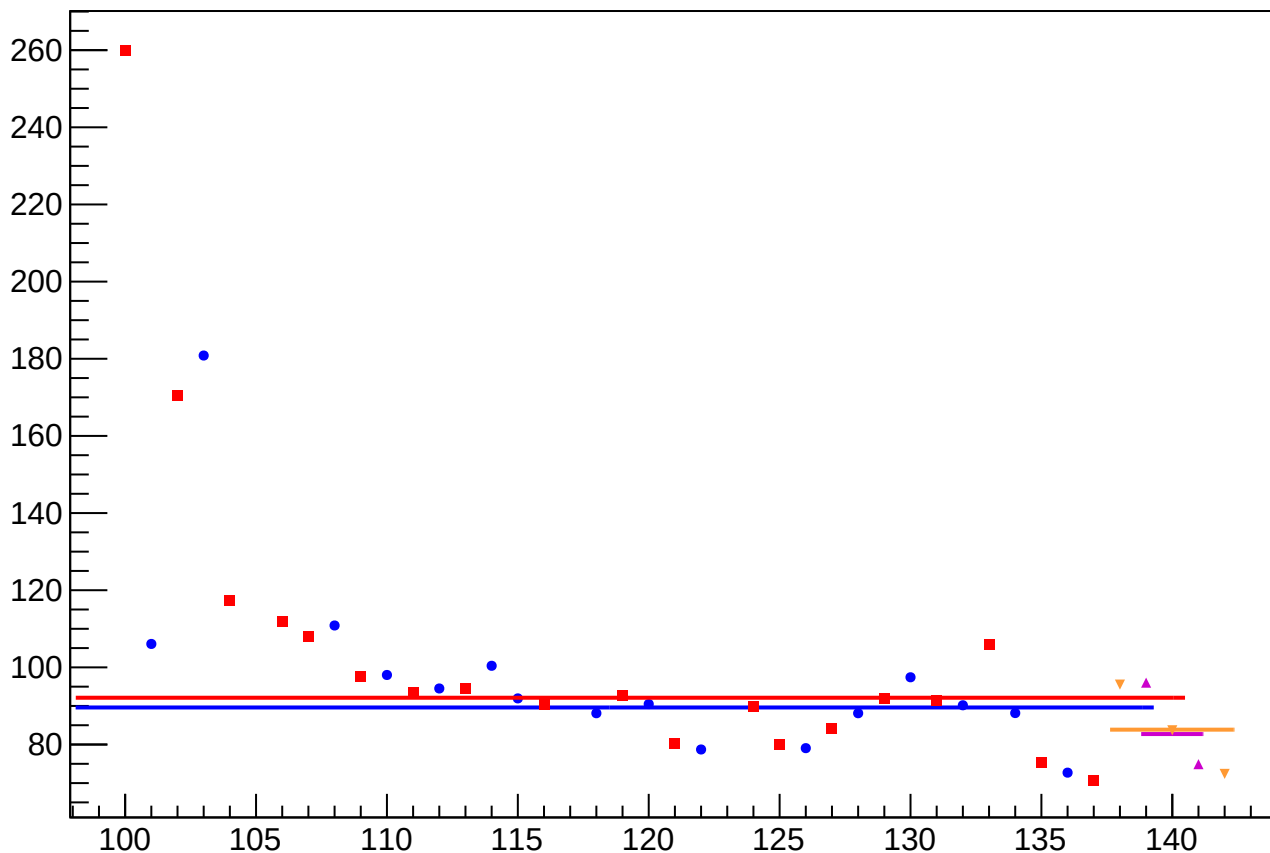
Right: 32.026+/-24.453 χ^2/NDF : 44.3/34

In: 11.109+/-30.181 χ^2/NDF : 20.1/17

Out: 88.360+/-30.063 χ^2/NDF : 24.9/21

All: 49.886+/-21.299 χ^2/NDF : 48.3/39

eigen_cor_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 89.604 $\pm$ 0.024 χ^2 /NDF: 498384.4/15

Left Out: 83.852 $\pm$ 0.042 χ^2 /NDF: 44733.8/2

Right Out: 92.129 $\pm$ 0.025 χ^2 /NDF: 540308.7/18

Left In: 82.715 $\pm$ 0.045 χ^2 /NDF: 51421.8/1

Left: 83.324 $\pm$ 0.031 χ^2 /NDF: 96498.0/4

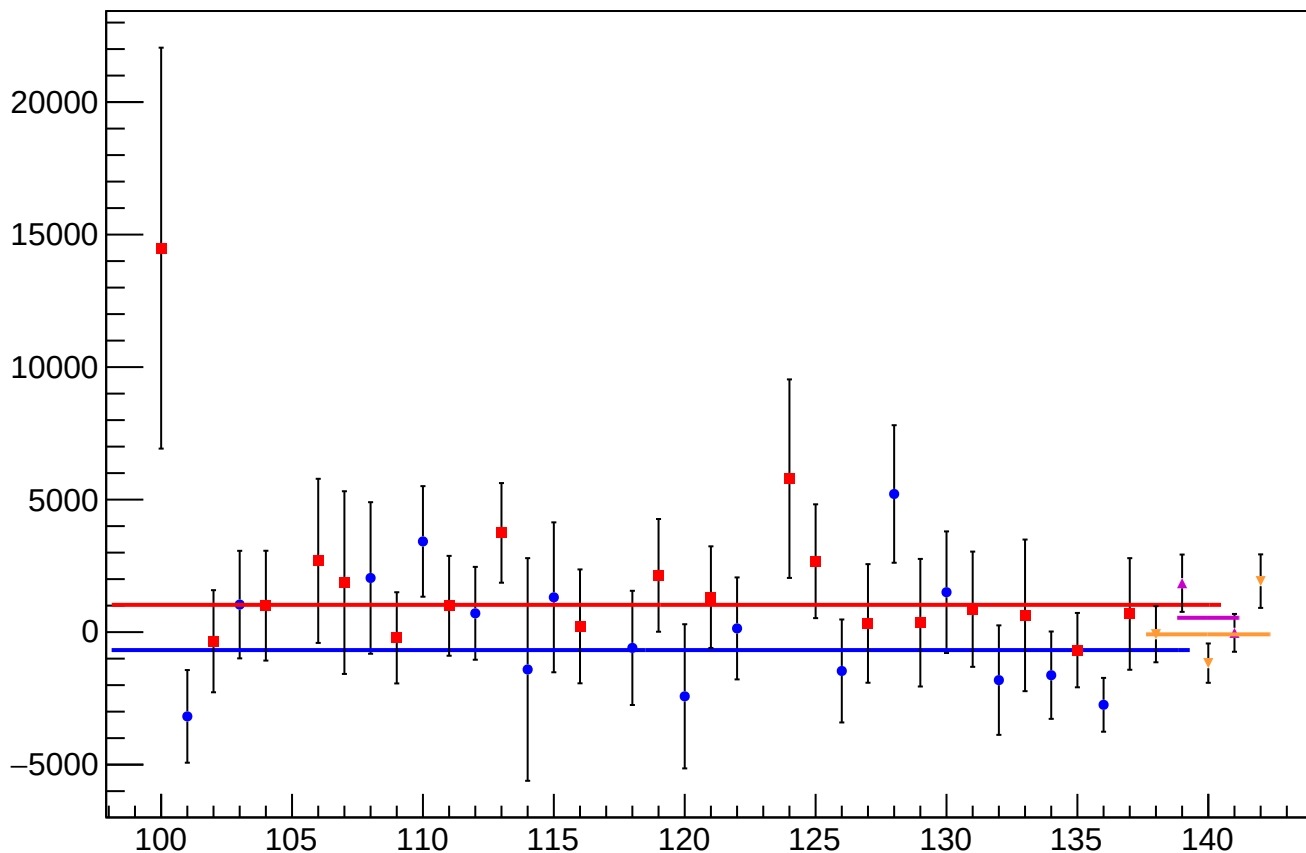
Right: 90.845 $\pm$ 0.017 χ^2 /NDF: 1044025.4/34

In: 88.053 $\pm$ 0.021 χ^2 /NDF: 567984.2/17

Out: 89.999 $\pm$ 0.021 χ^2 /NDF: 614020.4/21

All: 89.030 $\pm$ 0.015 χ^2 /NDF: 1186179.8/39

asym_sam_2468_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -677.345+/-486.482 χ^2/NDF : 20.3/15

Left Out: -83.937+/-520.577 χ^2/NDF : 6.1/2

Right Out: 1029.395+/-497.018 χ^2/NDF : 11.0/18

Left In: 540.885+/-595.635 χ^2/NDF : 2.1/1

Left: 186.648+/-391.971 χ^2/NDF : 8.8/4

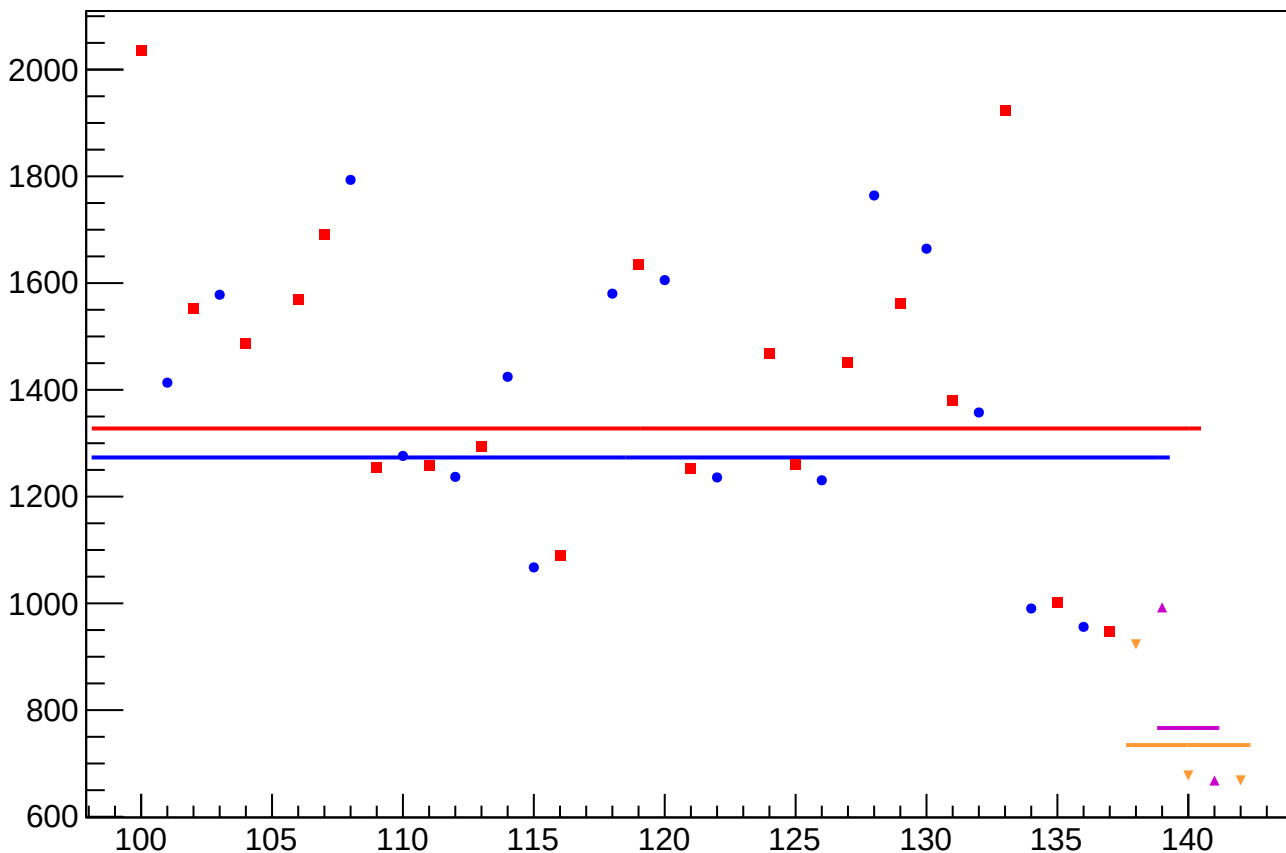
Right: 157.743+/-347.660 χ^2/NDF : 37.3/34

In: -189.875+/-376.781 χ^2/NDF : 24.9/17

Out: 498.491+/-359.485 χ^2/NDF : 19.5/21

All: 170.470+/-260.094 χ^2/NDF : 46.1/39

asym_sam_2468_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1273.327+/-0.344 χ^2/NDF : 597547.8/15

Left Out: 734.545+/-0.368 χ^2/NDF : 84017.3/2

Right Out: 1327.661+/-0.351 χ^2/NDF : 458481.2/18

Left In: 766.514+/-0.421 χ^2/NDF : 125383.7/1

Left: 748.390+/-0.277 χ^2/NDF : 212667.2/4

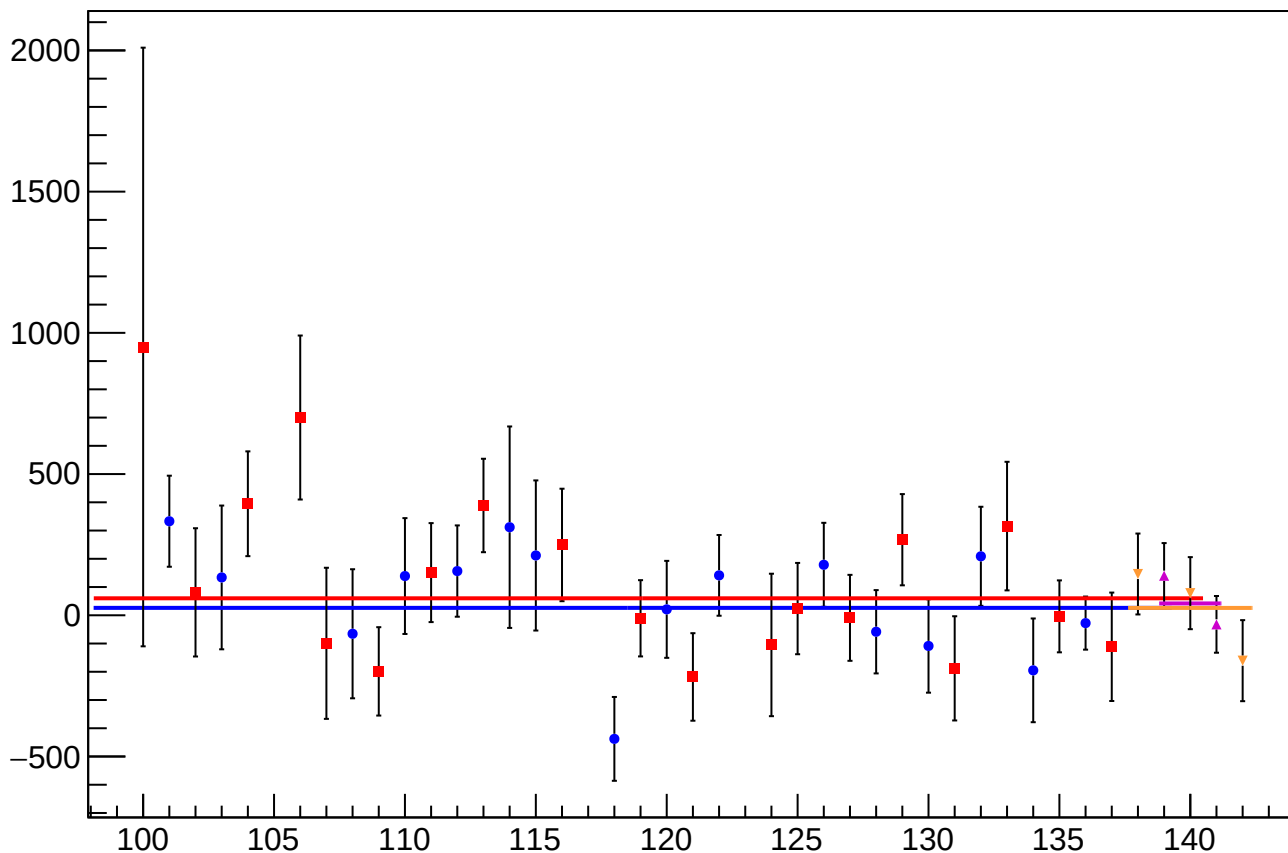
Right: 1299.912+/-0.246 χ^2/NDF : 1068235.5/34

In: 1070.528+/-0.266 χ^2/NDF : 1591517.2/17

Out: 1044.828+/-0.254 χ^2/NDF : 1900673.0/21

All: 1057.074+/-0.184 χ^2/NDF : 3497061.3/39

dit_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 26.251 $\pm$ 41.220 χ^2 /NDF: 21.4/15

Left Out: 26.026 $\pm$ 79.360 χ^2 /NDF:2.6/2

Right Out: 60.119 $\pm$ 41.528 χ^2 /NDF: 27.0/18

Left In: 41.928 $\pm$ 75.806 χ^2 /NDF:1.3/1

Left: 34.341 $\pm$ 54.816 χ^2 /NDF: 3.9/4

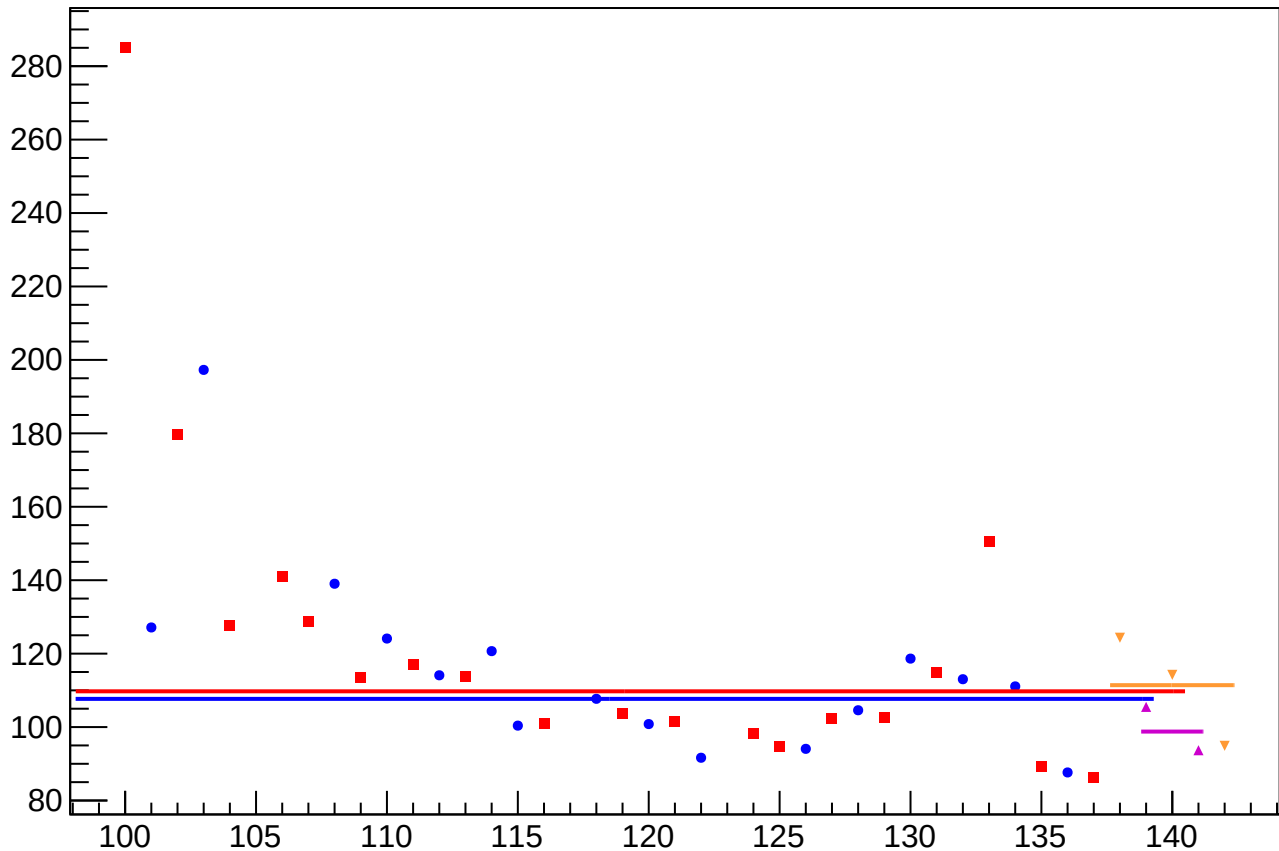
Right: 43.059 $\pm$ 29.255 χ^2 /NDF: 48.7/34

In: 29.828 $\pm$ 36.212 χ^2 /NDF:22.7/17

Out: 52.790 $\pm$ 36.795 χ^2 /NDF:29.7/21

All: 41.126 $\pm$ 25.809 χ^2 /NDF: 52.6/39

dit_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 107.680 $\pm$ 0.029 χ^2 /NDF: 483125.6/15

Left Out: 111.413 $\pm$ 0.056 χ^2 /NDF:43753.5/2

Right Out: 109.739 $\pm$ 0.029 χ^2 /NDF: 491787.3/18

Left In: 98.774 $\pm$ 0.054 χ^2 /NDF:11892.7/1

Left: 104.805 $\pm$ 0.039 χ^2 /NDF: 82171.9/4

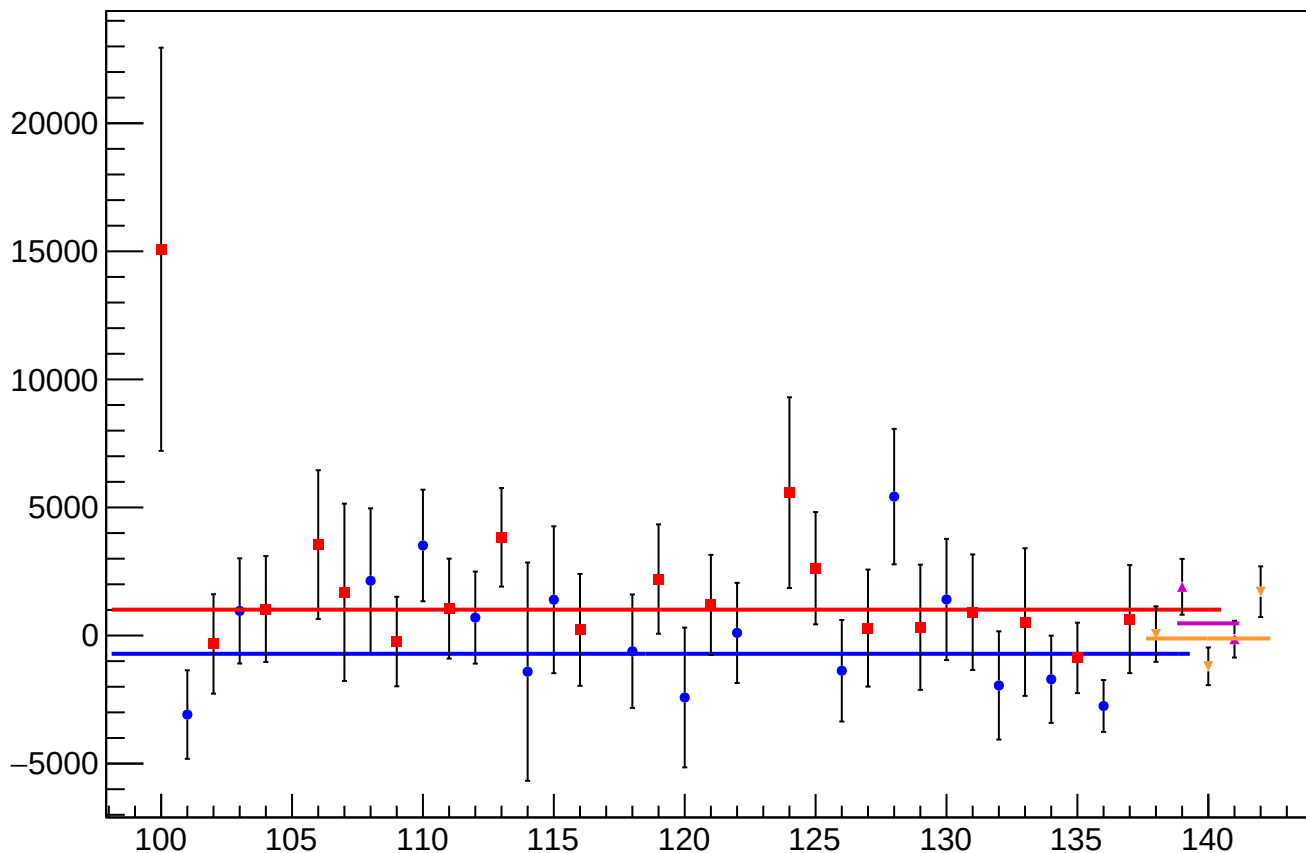
Right: 108.702 $\pm$ 0.021 χ^2 /NDF: 977390.9/34

In: 105.648 $\pm$ 0.026 χ^2 /NDF:516320.8/17

Out: 110.099 $\pm$ 0.026 χ^2 /NDF:536239.4/21

All: 107.838 $\pm$ 0.018 χ^2 /NDF: 1067431.1/39

asym_sam_2468_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -712.887 ± 493.253 χ^2/NDF : 20.1/15

Left Out: -114.435 ± 518.324 χ^2/NDF : 5.6/2

Right Out: 1010.557 ± 501.374 χ^2/NDF : 11.8/18

Left In: 475.378 ± 599.173 χ^2/NDF : 2.5/1

Left: 138.022 ± 392.002 χ^2/NDF : 8.6/4

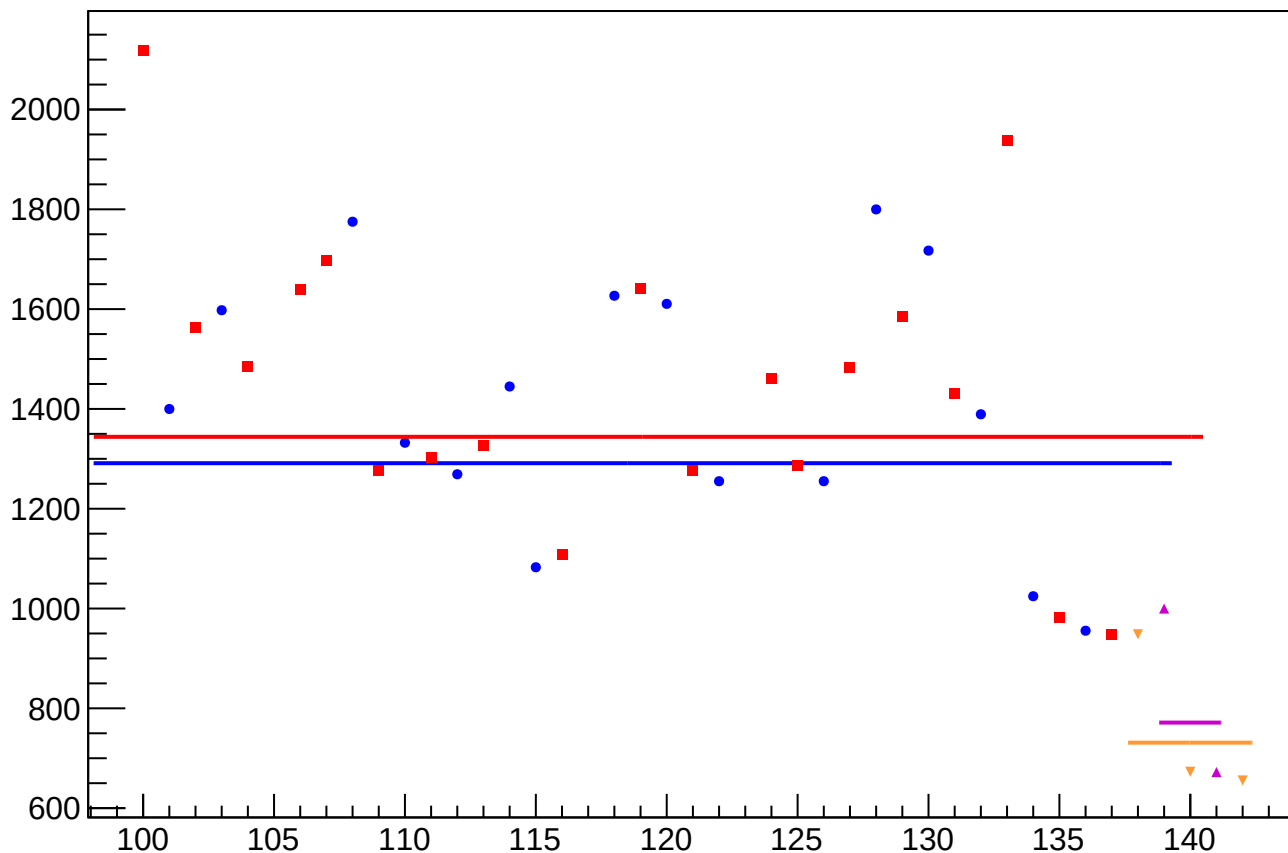
Right: 134.764 ± 351.618 χ^2/NDF : 37.9/34

In: -232.894 ± 380.814 χ^2/NDF : 24.9/17

Out: 466.756 ± 360.368 χ^2/NDF : 19.8/21

All: 136.217 ± 261.749 χ^2/NDF : 46.5/39

asym_sam_2468_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1291.223+/-0.349 χ^2/NDF : 610897.3/15

Left Out: 731.217+/-0.367 χ^2/NDF : 104659.8/2

Right Out: 1344.118+/-0.355 χ^2/NDF : 490963.7/18

Left In: 771.426+/-0.424 χ^2/NDF : 126079.4/1

Left: 748.428+/-0.277 χ^2/NDF : 235890.8/4

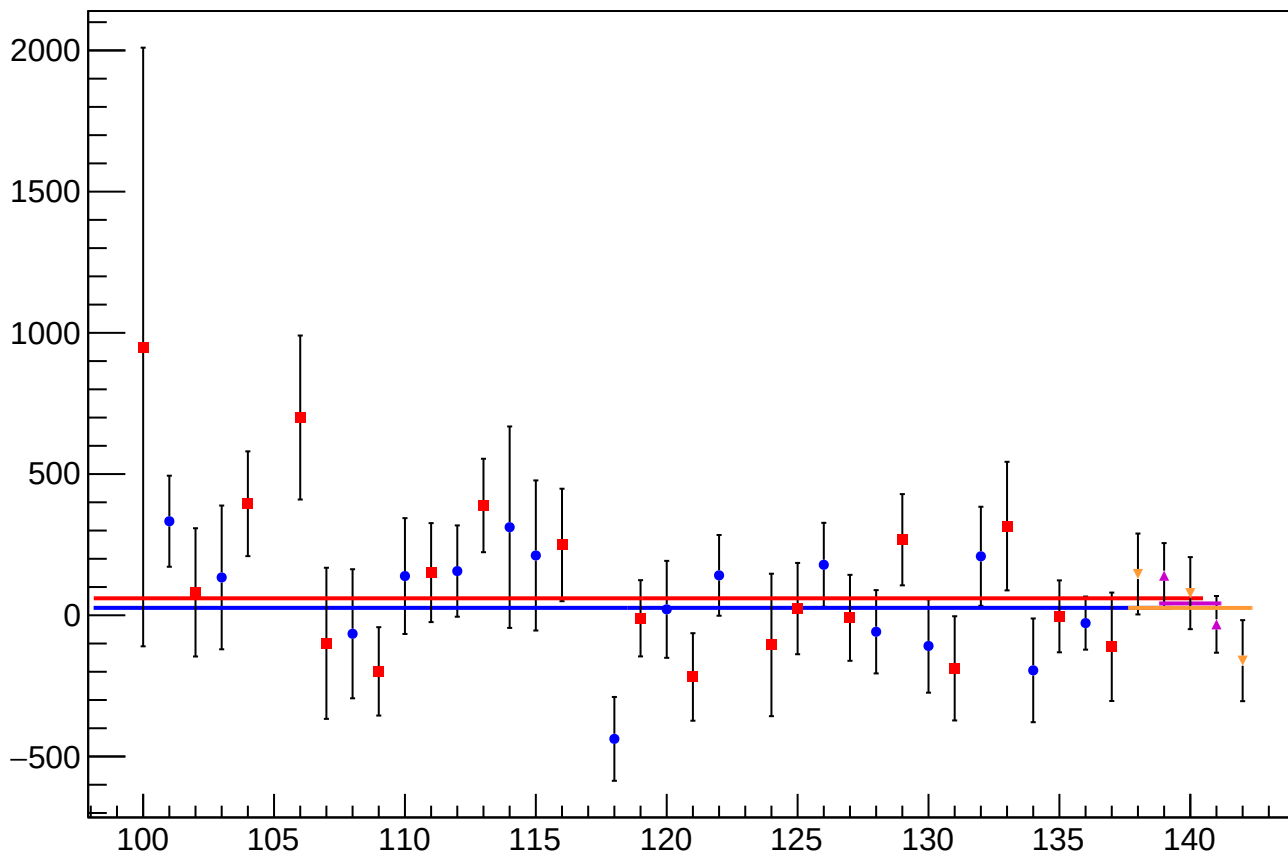
Right: 1317.239+/-0.249 χ^2/NDF : 1113173.0/34

In: 1081.254+/-0.269 χ^2/NDF : 1634156.7/17

Out: 1047.853+/-0.255 χ^2/NDF : 2040320.8/21

All: 1063.633+/-0.185 χ^2/NDF : 3682594.6/39

eigen_dit_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 26.252 $\pm$ 41.219 χ^2 /NDF: 21.4/15

Left Out: 26.026 $\pm$ 79.360 χ^2 /NDF: 2.6/2

Right Out: 60.117 $\pm$ 41.528 χ^2 /NDF: 27.0/18

Left In: 41.927 $\pm$ 75.806 χ^2 /NDF: 1.3/1

Left: 34.340 $\pm$ 54.816 χ^2 /NDF: 3.9/4

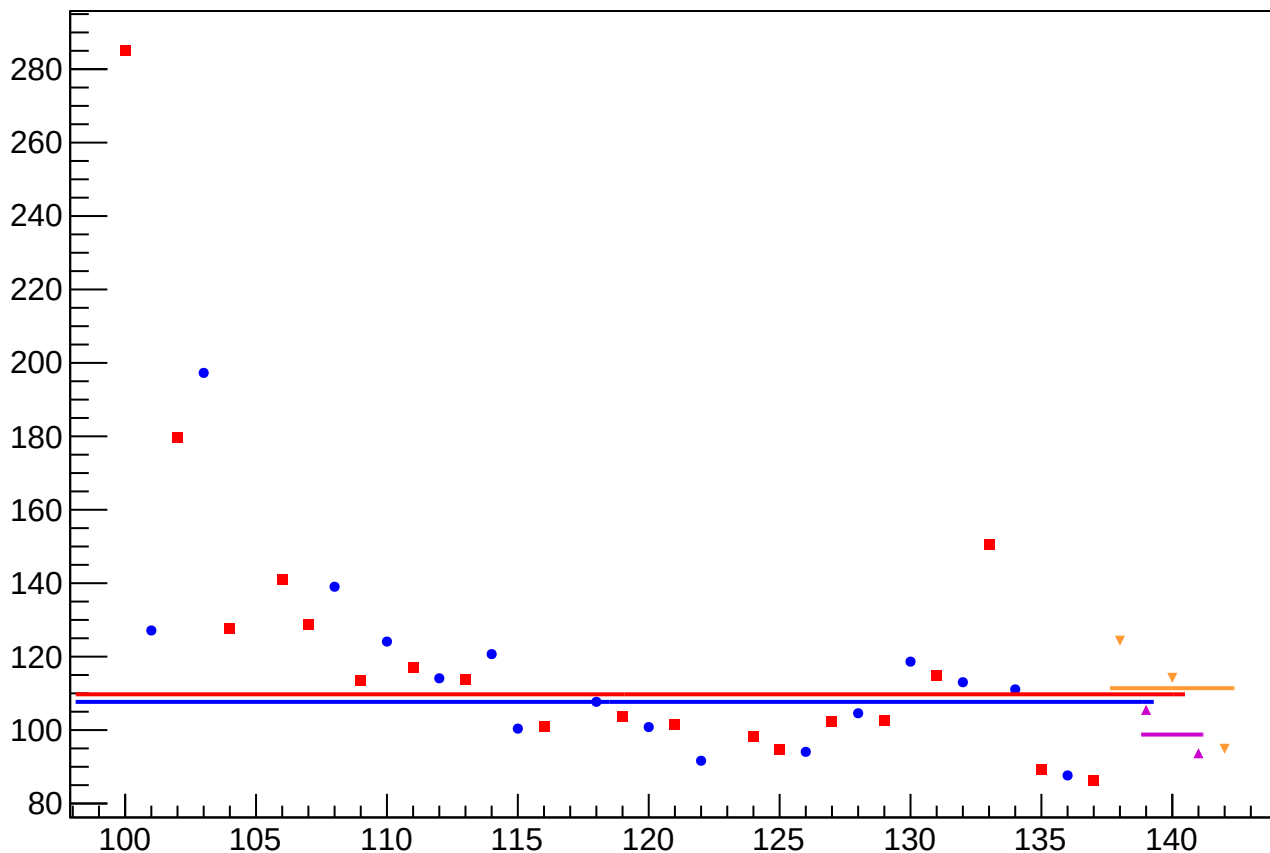
Right: 43.058 $\pm$ 29.255 χ^2 /NDF: 48.7/34

In: 29.829 $\pm$ 36.212 χ^2 /NDF: 22.7/17

Out: 52.789 $\pm$ 36.795 χ^2 /NDF: 29.7/21

All: 41.126 $\pm$ 25.809 χ^2 /NDF: 52.6/39

eigen_dit_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 107.679 $\pm$ 0.029 χ^2 /NDF: 483112.2/15

Left Out: 111.413 $\pm$ 0.056 χ^2 /NDF:43751.8/2

Right Out: 109.739 $\pm$ 0.029 χ^2 /NDF: 491784.5/18

Left In: 98.774 $\pm$ 0.054 χ^2 /NDF:11891.9/1

Left: 104.805 $\pm$ 0.039 χ^2 /NDF: 82168.7/4

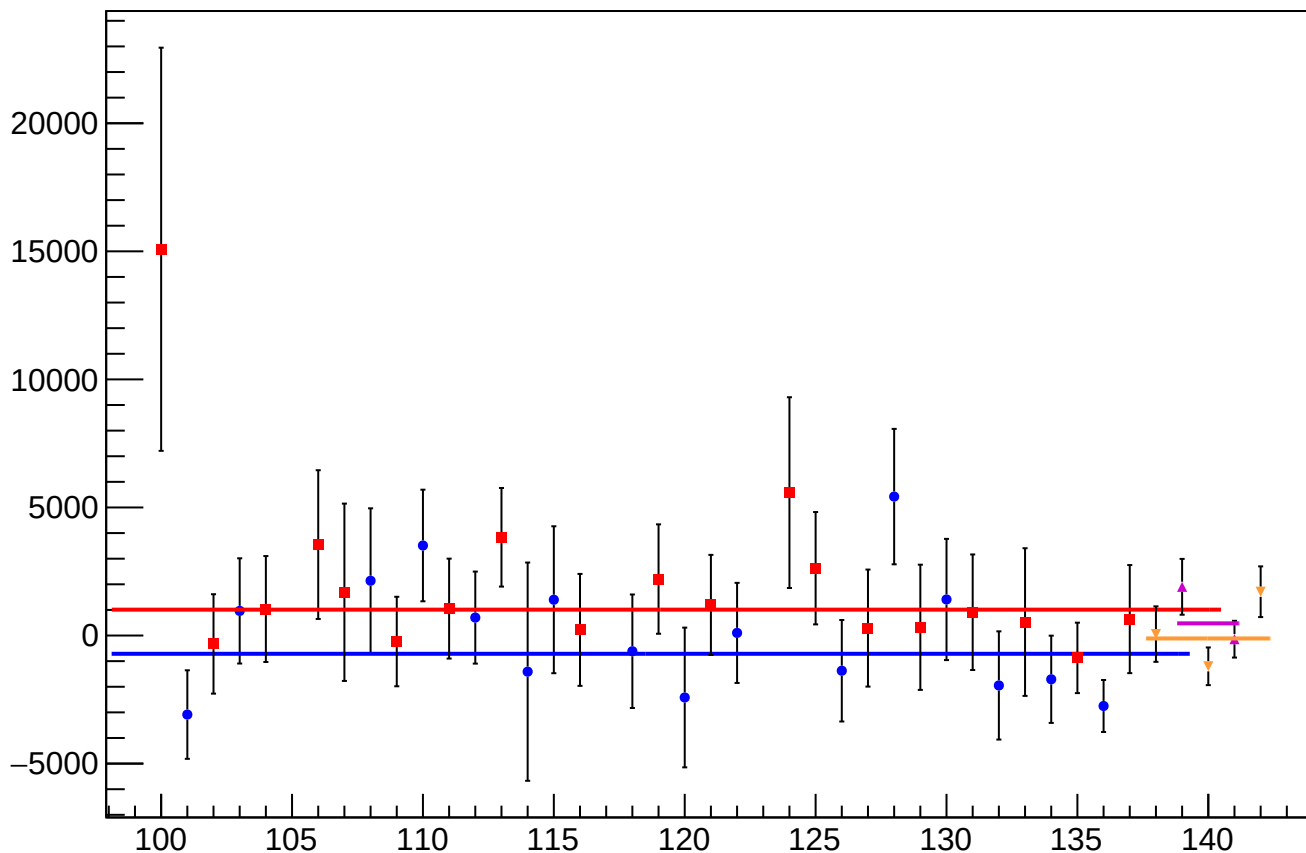
Right: 108.701 $\pm$ 0.021 χ^2 /NDF: 977375.0/34

In: 105.647 $\pm$ 0.026 χ^2 /NDF:516302.9/17

Out: 110.099 $\pm$ 0.026 χ^2 /NDF:536235.4/21

All: 107.837 $\pm$ 0.018 χ^2 /NDF: 1067409.5/39

asym_sam_2468_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -712.881 ± 493.252 $\chi^2/\text{NDF}: 20.1/15$

Left Out: -114.439 ± 518.323 $\chi^2/\text{NDF}: 5.6/2$

Right Out: 1010.556 ± 501.373 $\chi^2/\text{NDF}: 11.8/18$

Left In: 475.379 ± 599.171 $\chi^2/\text{NDF}: 2.5/1$

Left: 138.020 ± 392.001 $\chi^2/\text{NDF}: 8.6/4$

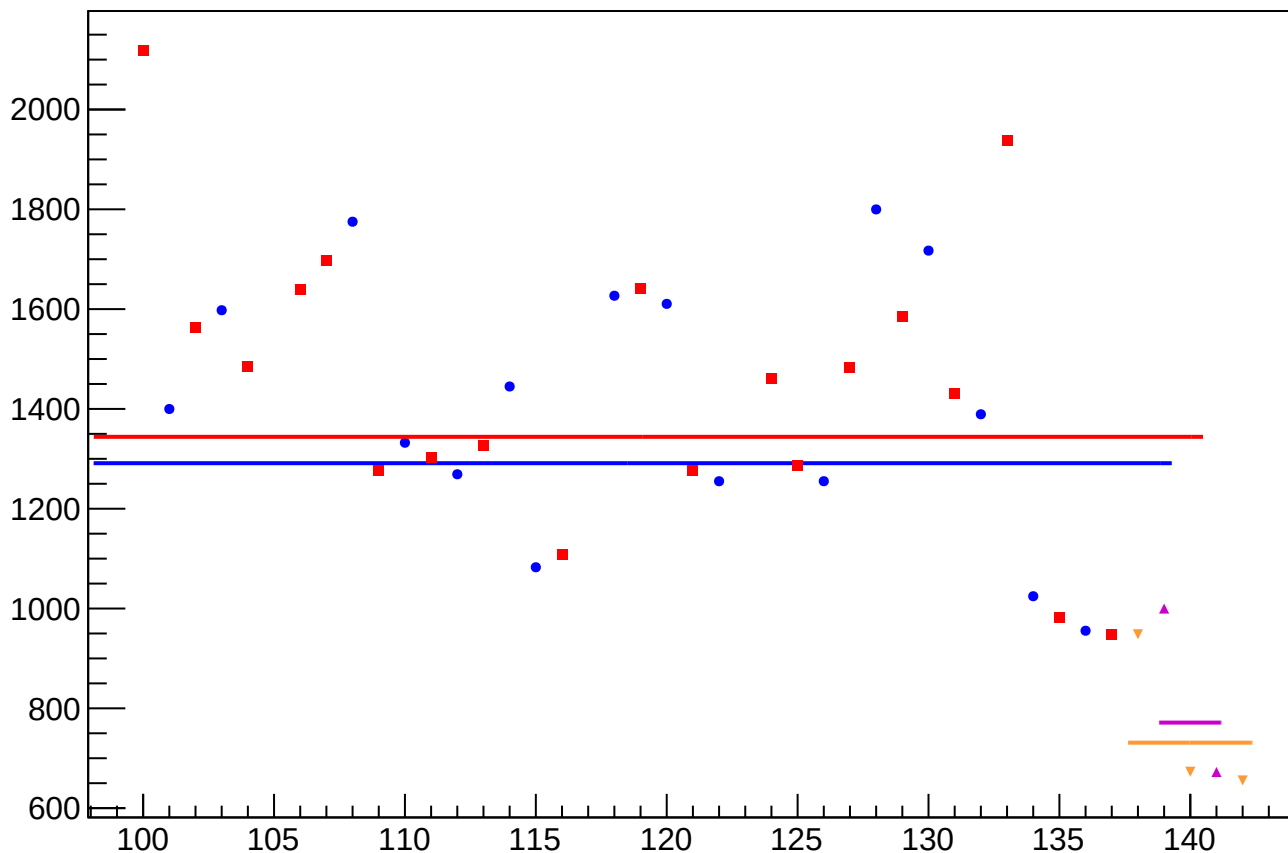
Right: 134.766 ± 351.618 $\chi^2/\text{NDF}: 37.9/34$

In: -232.890 ± 380.813 $\chi^2/\text{NDF}: 24.9/17$

Out: 466.754 ± 360.367 $\chi^2/\text{NDF}: 19.8/21$

All: 136.217 ± 261.748 $\chi^2/\text{NDF}: 46.5/39$

asym_sam_2468_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1291.220+/-0.349 χ^2/NDF : 610894.9/15

Left Out: 731.216+/-0.367 χ^2/NDF : 104657.6/2

Right Out: 1344.115+/-0.355 χ^2/NDF : 490963.4/18

Left In: 771.424+/-0.424 χ^2/NDF : 126079.0/1

Left: 748.426+/-0.277 χ^2/NDF : 235887.9/4

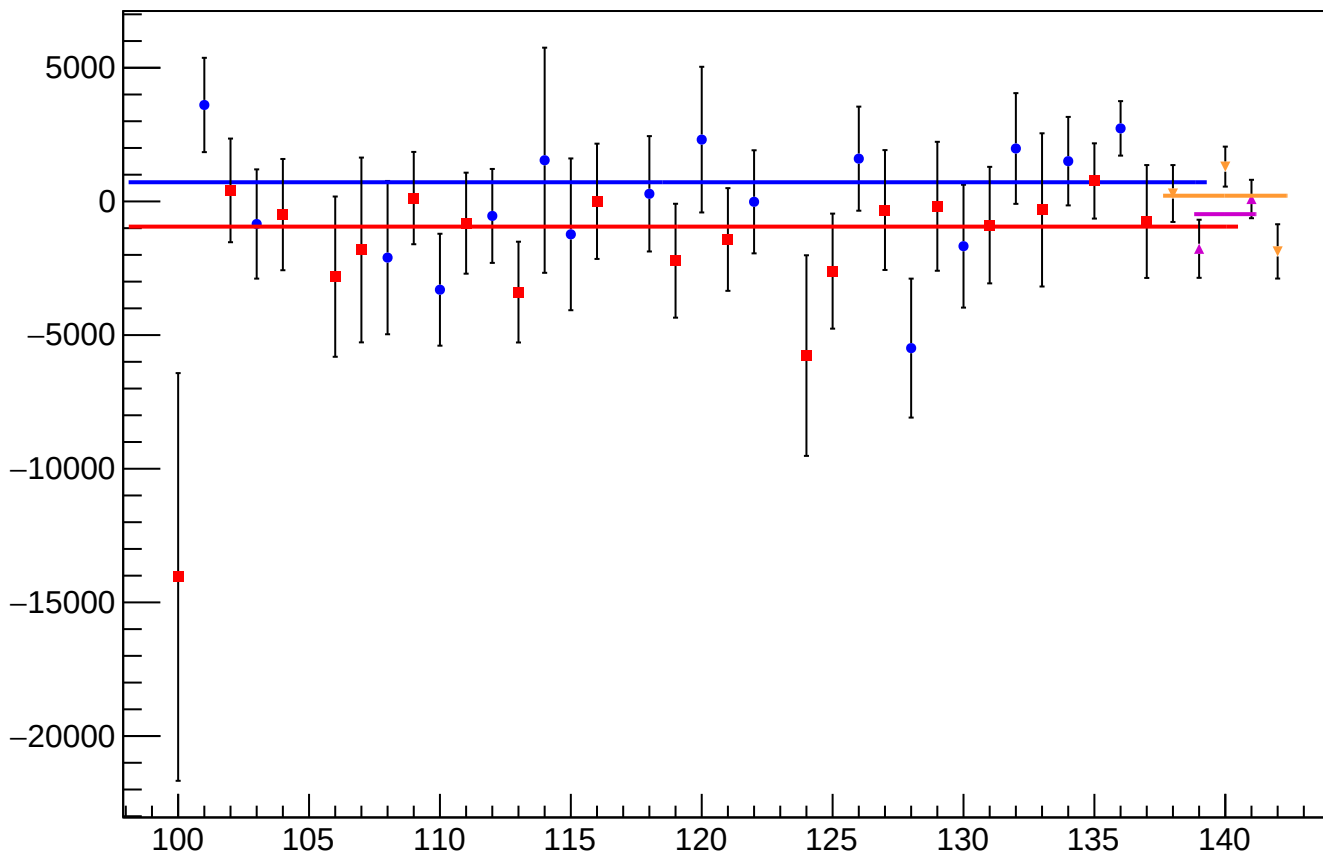
Right: 1317.235+/-0.249 χ^2/NDF : 1113170.2/34

In: 1081.251+/-0.269 χ^2/NDF : 1634156.5/17

Out: 1047.851+/-0.255 χ^2/NDF : 2040315.1/21

All: 1063.630+/-0.185 χ^2/NDF : 3682588.3/39

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 717.617 $\pm$ 488.239 χ^2 /NDF: 21.0/15

Left Out: 213.862 $\pm$ 524.134 χ^2 /NDF:6.3/2

Right Out: -942.308 $\pm$ 498.052 χ^2 /NDF: 10.6/18

Left In: -475.886 $\pm$ 599.152 χ^2 /NDF:2.0/1

Left: -85.153 $\pm$ 394.492 χ^2 /NDF: 9.1/4

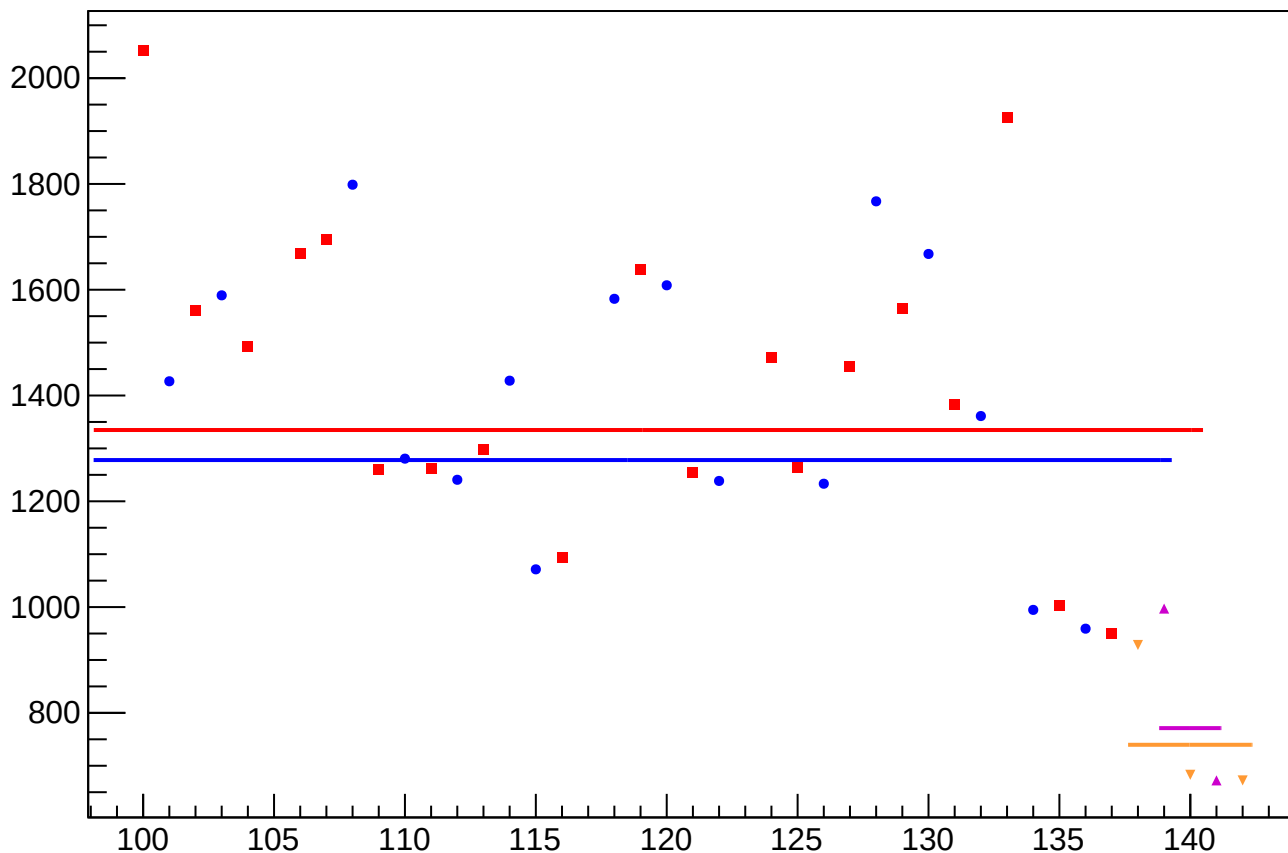
Right: -95.832 $\pm$ 348.655 χ^2 /NDF: 37.2/34

In: 241.348 $\pm$ 378.487 χ^2 /NDF:25.4/17

Out: -393.705 $\pm$ 361.045 χ^2 /NDF:19.5/21

All: -91.148 $\pm$ 261.246 χ^2 /NDF: 46.3/39

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1277.979+/-0.345 χ^2/NDF : 597666.8/15

Left Out: 739.652+/-0.371 χ^2/NDF : 83196.9/2

Right Out: 1334.775+/-0.352 χ^2/NDF : 471897.2/18

Left In: 771.165+/-0.424 χ^2/NDF : 124419.9/1

Left: 753.313+/-0.279 χ^2/NDF : 210751.0/4

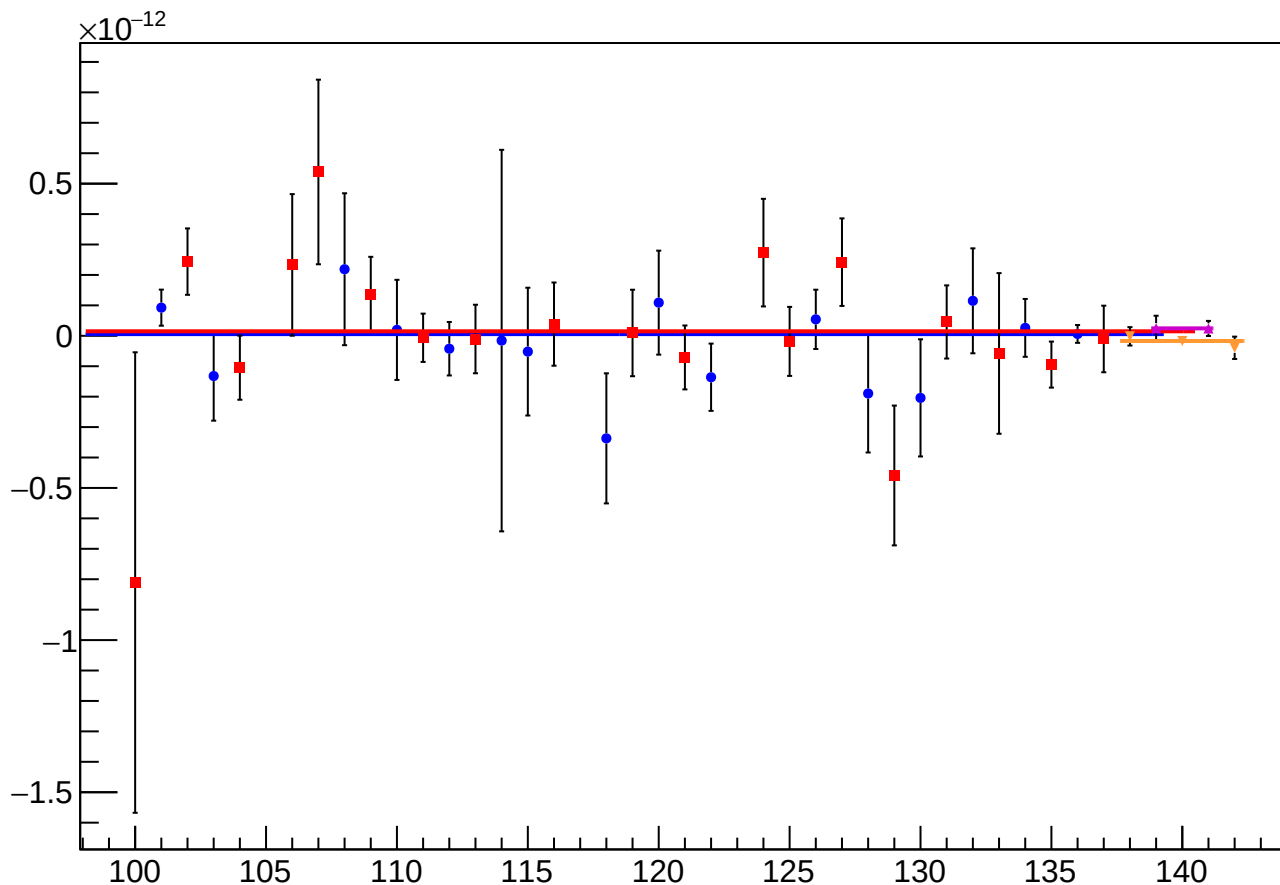
Right: 1305.812+/-0.247 χ^2/NDF : 1082827.2/34

In: 1075.734+/-0.268 χ^2/NDF : 1582072.7/17

Out: 1052.389+/-0.255 χ^2/NDF : 1910069.5/21

All: 1063.511+/-0.185 χ^2/NDF : 3496126.0/39

asym_sam_2468_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 11.6/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:0.6/2

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 23.8/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 3.4/4

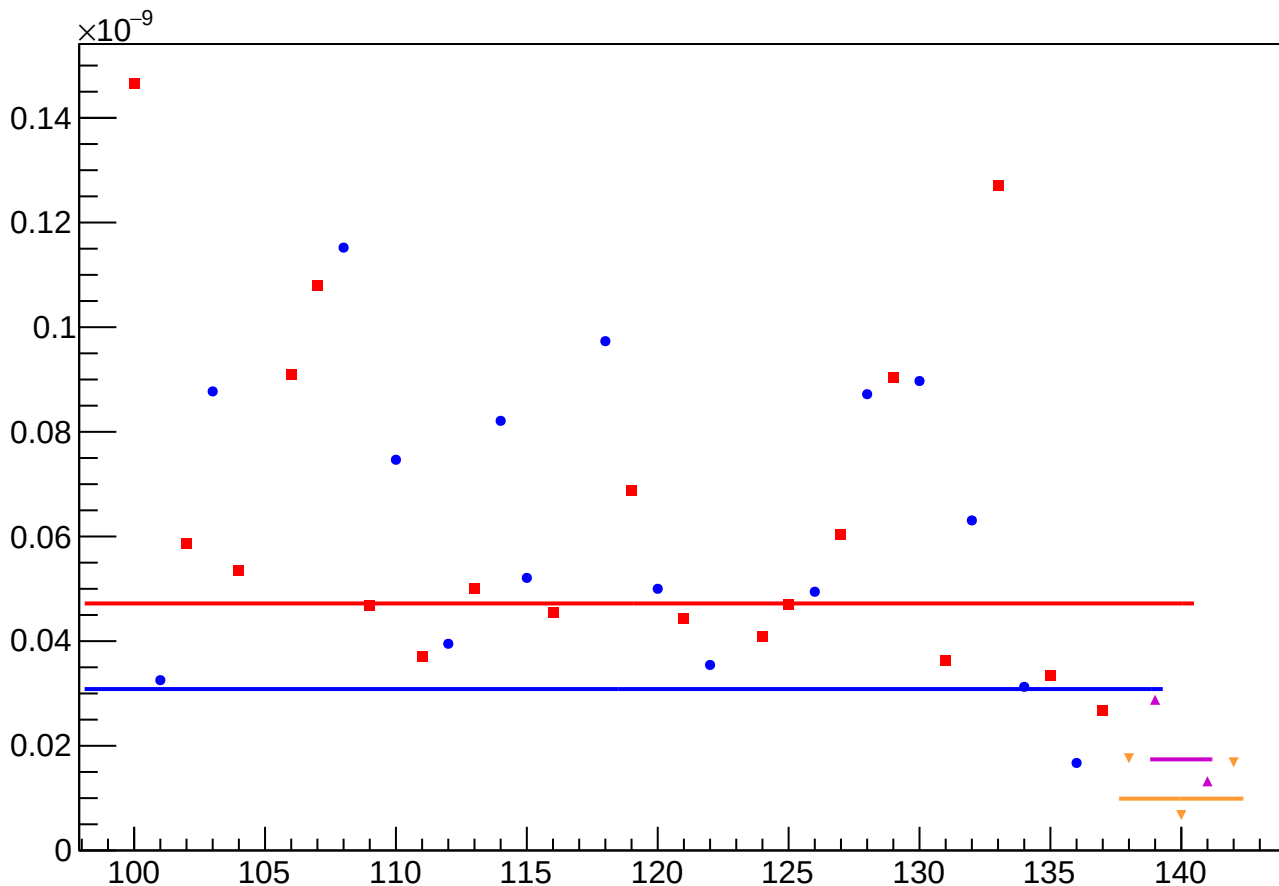
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 35.5/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:12.0/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:25.4/21

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 39.4/39

asym_sam_2468_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1912879.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 287519.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 722091.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 212234.1/1

Left: 0.000+/-0.000 χ^2/NDF : 683852.8/4

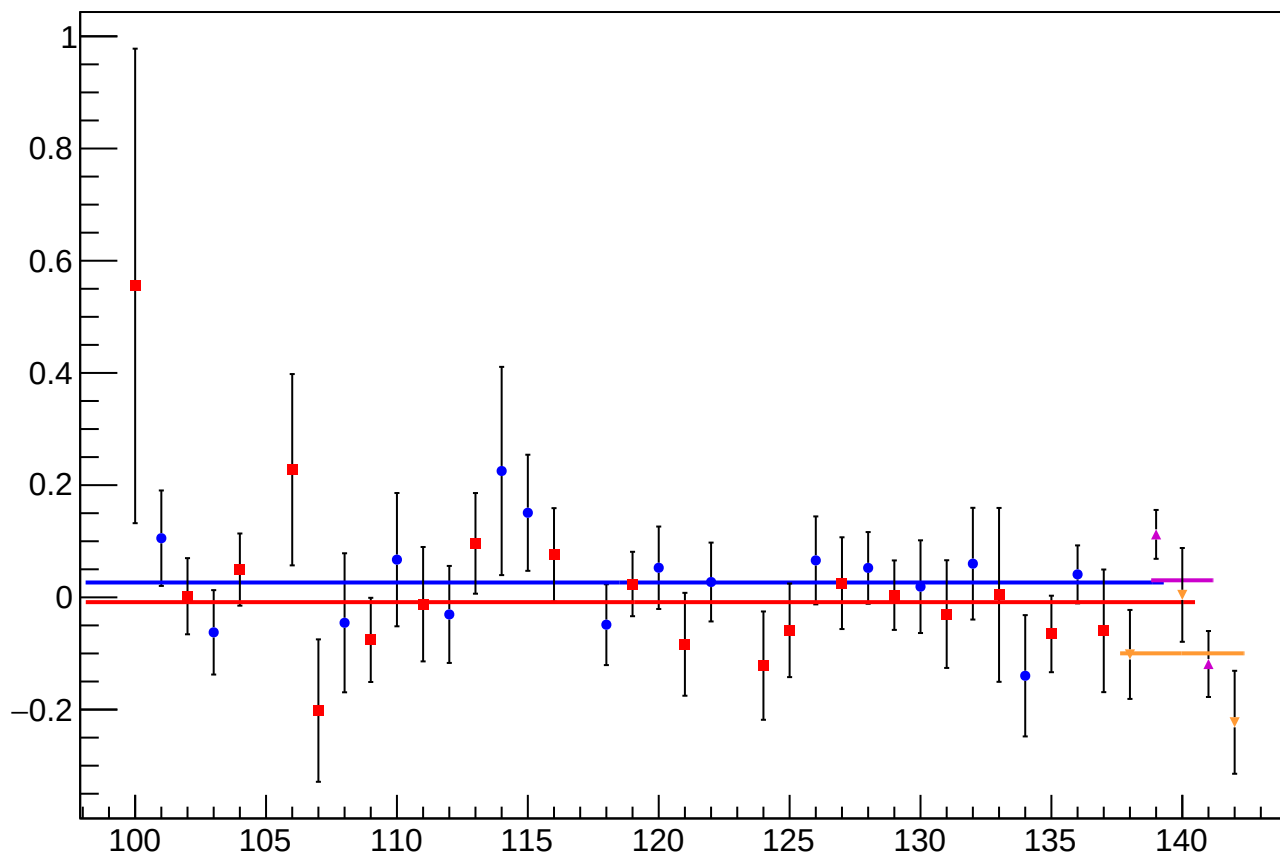
Right: 0.000+/-0.000 χ^2/NDF : 3051679.0/34

In: 0.000+/-0.000 χ^2/NDF : 2519531.6/17

Out: 0.000+/-0.000 χ^2/NDF : 3844342.3/21

All: 0.000+/-0.000 χ^2/NDF : 6709897.2/39

asym_sam_2468_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 ± 0.020 $\chi^2/\text{NDF}: 9.9/15$

Left Out: -0.100 ± 0.049 $\chi^2/\text{NDF}: 3.3/2$

Right Out: -0.009 ± 0.019 $\chi^2/\text{NDF}: 13.9/18$

Left In: 0.030 ± 0.035 $\chi^2/\text{NDF}: 10.0/1$

Left: -0.014 ± 0.028 $\chi^2/\text{NDF}: 18.0/4$

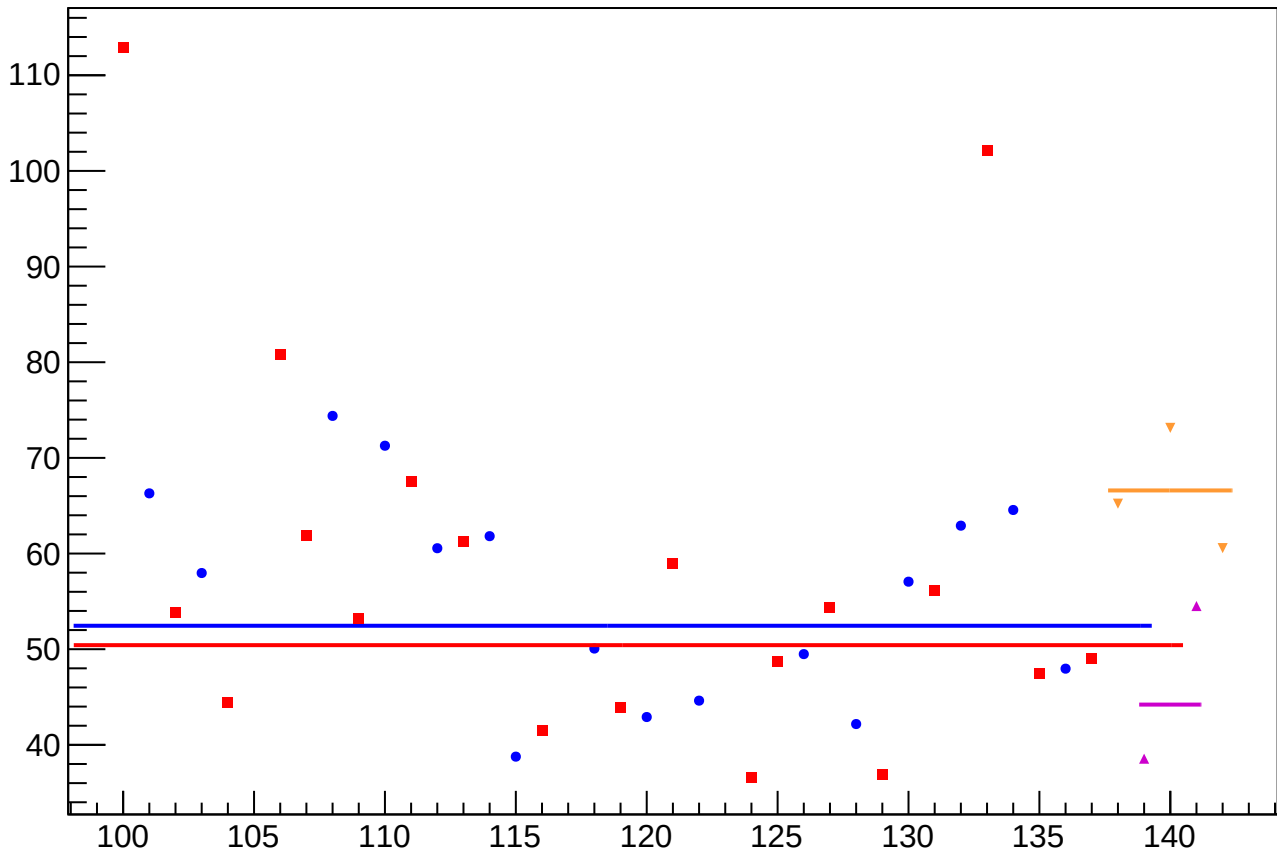
Right: 0.008 ± 0.014 $\chi^2/\text{NDF}: 25.4/34$

In: 0.027 ± 0.018 $\chi^2/\text{NDF}: 19.9/17$

Out: -0.021 ± 0.018 $\chi^2/\text{NDF}: 20.3/21$

All: 0.004 ± 0.013 $\chi^2/\text{NDF}: 43.9/39$

asym_sam_2468_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.451+/-0.014 χ^2/NDF : 418014.5/15

Left Out: 66.596+/-0.034 χ^2/NDF : 21486.5/2

Right Out: 50.423+/-0.014 χ^2/NDF : 676747.2/18

Left In: 44.210+/-0.025 χ^2/NDF : 95136.6/1

Left: 51.824+/-0.020 χ^2/NDF : 394995.3/4

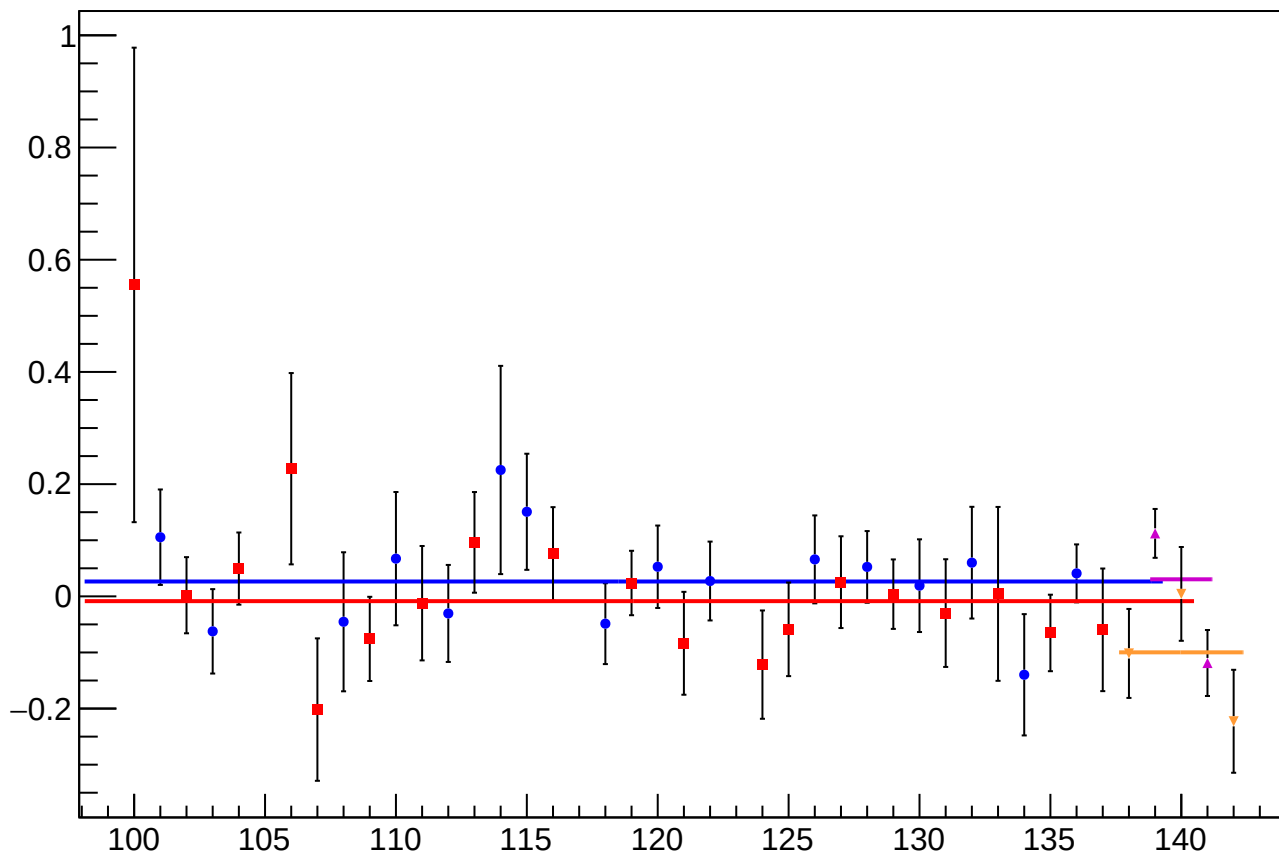
Right: 51.390+/-0.010 χ^2/NDF : 1105100.5/34

In: 50.361+/-0.012 χ^2/NDF : 595937.9/17

Out: 52.650+/-0.013 χ^2/NDF : 888098.6/21

All: 51.475+/-0.009 χ^2/NDF : 1500469.5/39

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.020 χ^2 /NDF: 9.9/15

Left Out: -0.100 $\pm$ 0.049 χ^2 /NDF:3.3/2

Right Out: -0.009 $\pm$ 0.019 χ^2 /NDF: 13.9/18

Left In: 0.030 $\pm$ 0.035 χ^2 /NDF:10.0/1

Left: -0.014 $\pm$ 0.028 χ^2 /NDF: 18.0/4

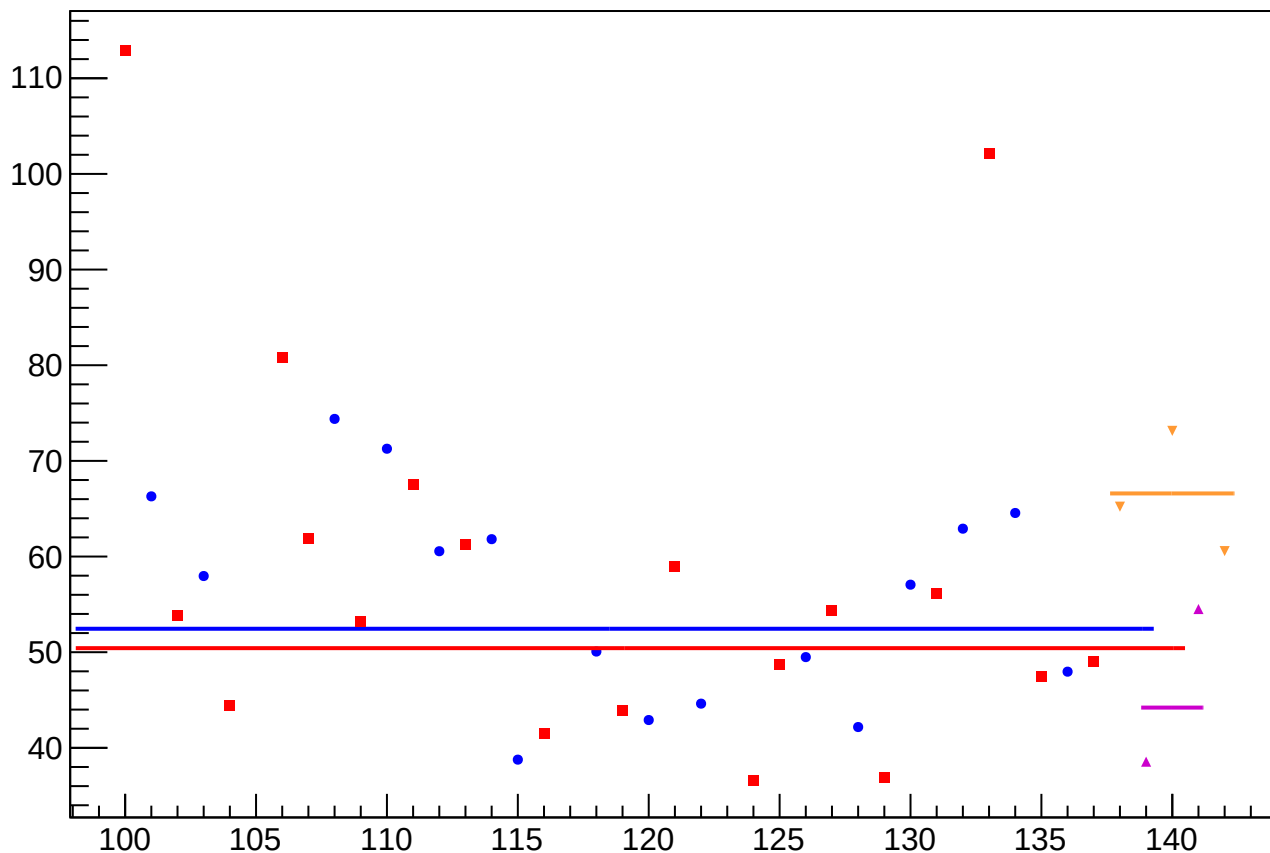
Right: 0.008 $\pm$ 0.014 χ^2 /NDF: 25.4/34

In: 0.027 $\pm$ 0.018 χ^2 /NDF:19.9/17

Out: -0.021 $\pm$ 0.018 χ^2 /NDF:20.3/21

All: 0.004 $\pm$ 0.013 χ^2 /NDF: 43.9/39

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.451+/-0.014 χ^2/NDF : 418014.5/15

Left Out: 66.596+/-0.034 χ^2/NDF : 21486.5/2

Right Out: 50.423+/-0.014 χ^2/NDF : 676747.2/18

Left In: 44.210+/-0.025 χ^2/NDF : 95136.6/1

Left: 51.824+/-0.020 χ^2/NDF : 394995.3/4

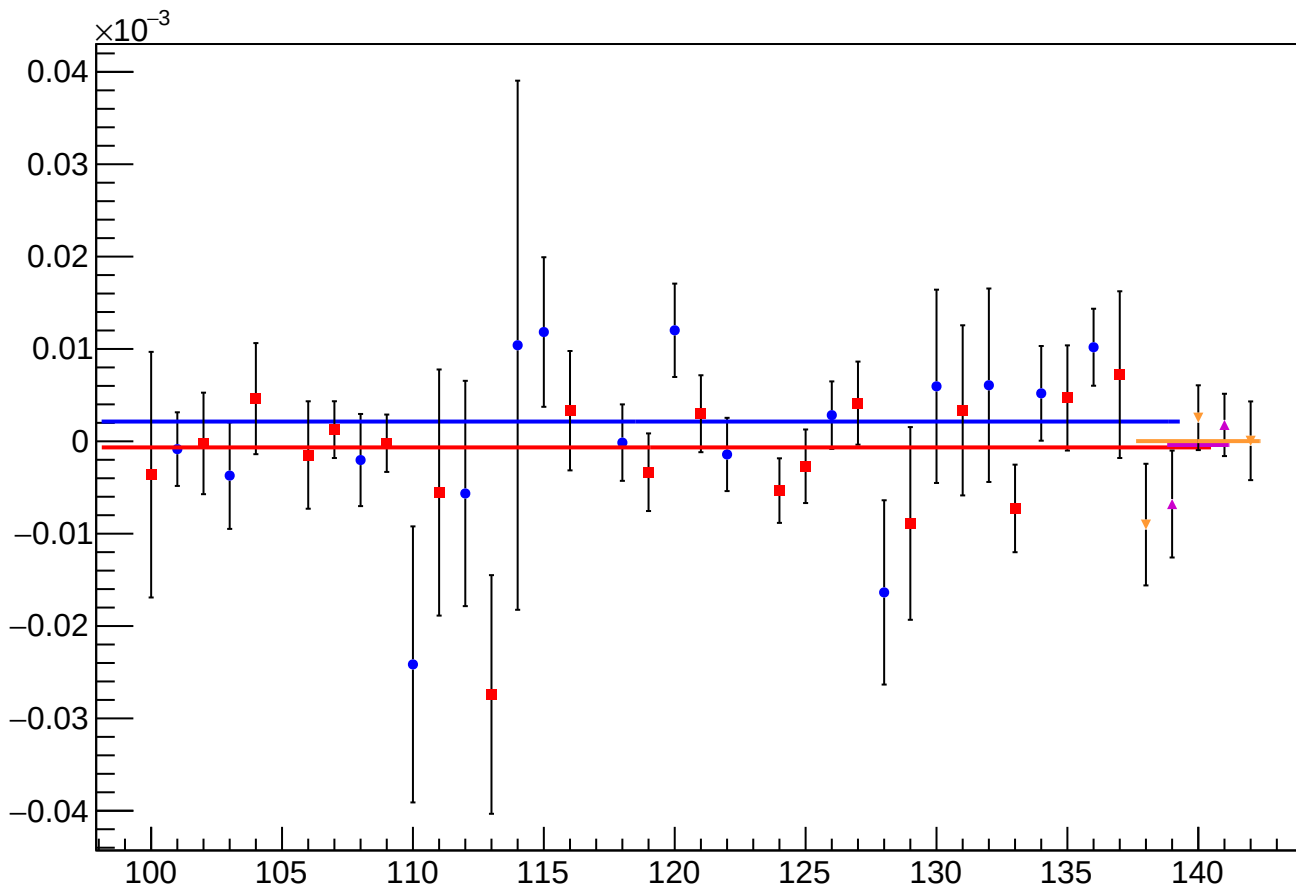
Right: 51.390+/-0.010 χ^2/NDF : 1105100.5/34

In: 50.361+/-0.012 χ^2/NDF : 595937.9/17

Out: 52.650+/-0.013 χ^2/NDF : 888098.6/21

All: 51.475+/-0.009 χ^2/NDF : 1500469.5/39

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 20.1/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:2.4/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 14.8/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:1.6/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 4.1/4

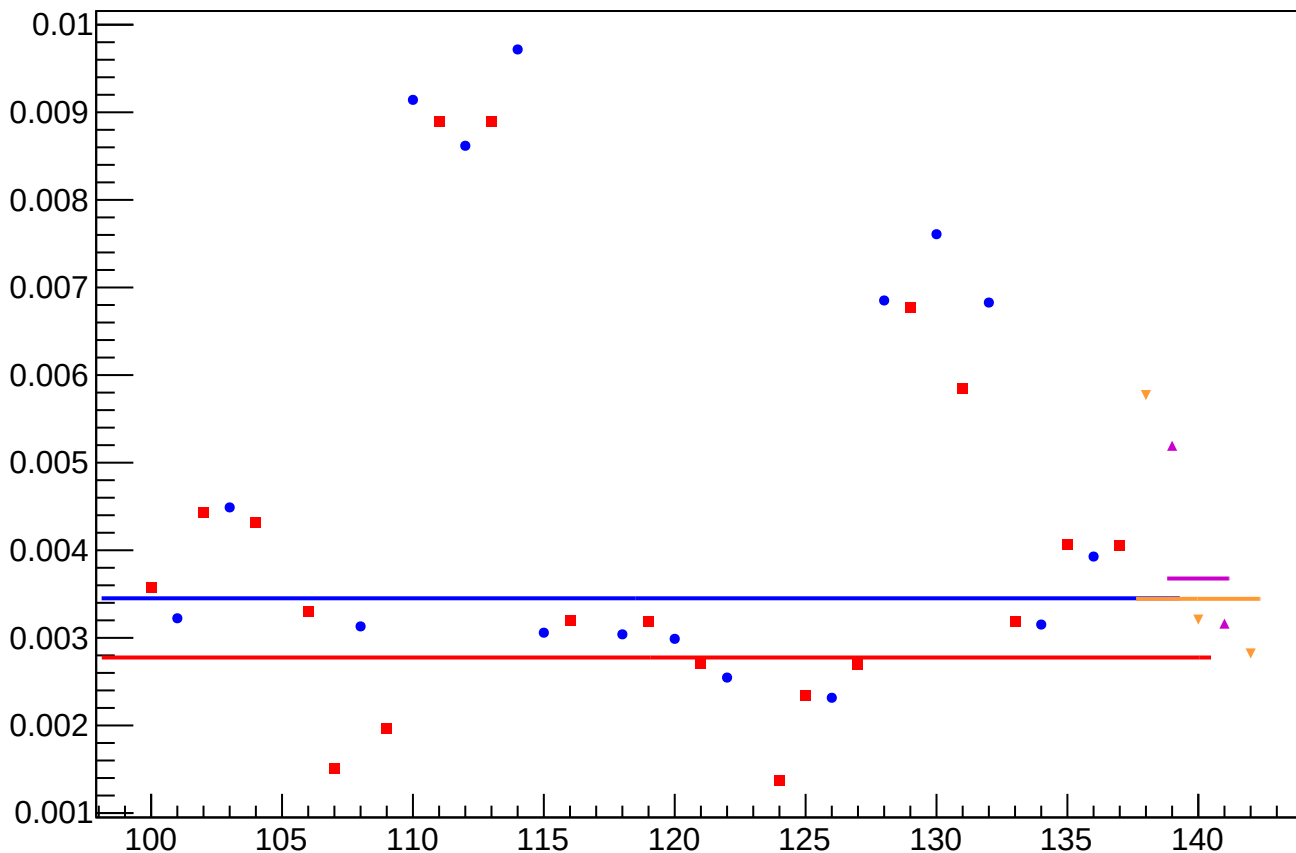
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 37.3/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:22.3/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:17.3/21

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 41.5/39

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1951102.6/15

Left Out: 0.003+/-0.000 χ^2/NDF : 301520.4/2

Right Out: 0.003+/-0.000 χ^2/NDF : 2734939.6/18

Left In: 0.004+/-0.000 χ^2/NDF : 183756.4/1

Left: 0.004+/-0.000 χ^2/NDF : 492553.0/4

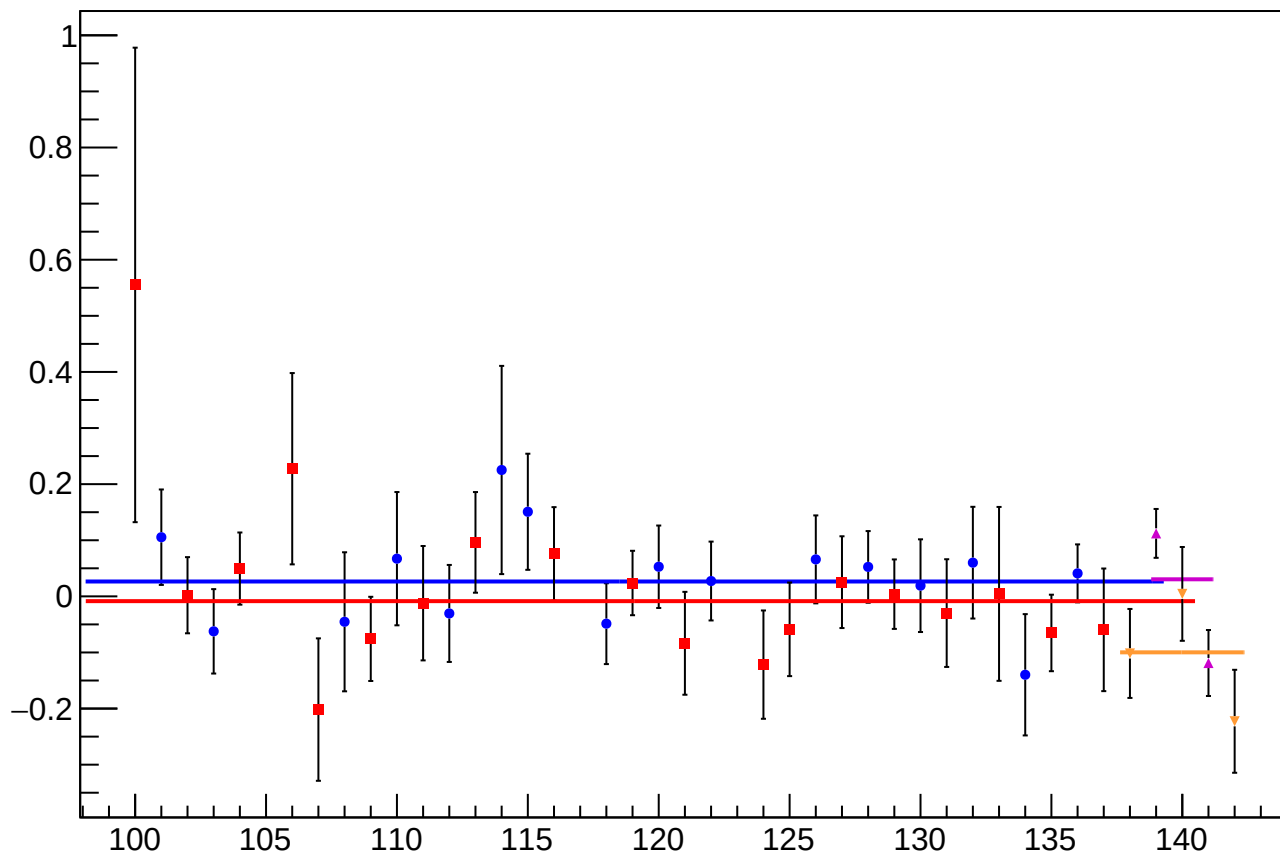
Right: 0.003+/-0.000 χ^2/NDF : 4968092.4/34

In: 0.003+/-0.000 χ^2/NDF : 2144655.0/17

Out: 0.003+/-0.000 χ^2/NDF : 3154727.2/21

All: 0.003+/-0.000 χ^2/NDF : 5571491.2/39

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.020 χ^2 /NDF: 9.9/15

Left Out: -0.100 $\pm$ 0.049 χ^2 /NDF:3.3/2

Right Out: -0.009 $\pm$ 0.019 χ^2 /NDF: 13.9/18

Left In: 0.030 $\pm$ 0.035 χ^2 /NDF:10.0/1

Left: -0.014 $\pm$ 0.028 χ^2 /NDF: 18.0/4

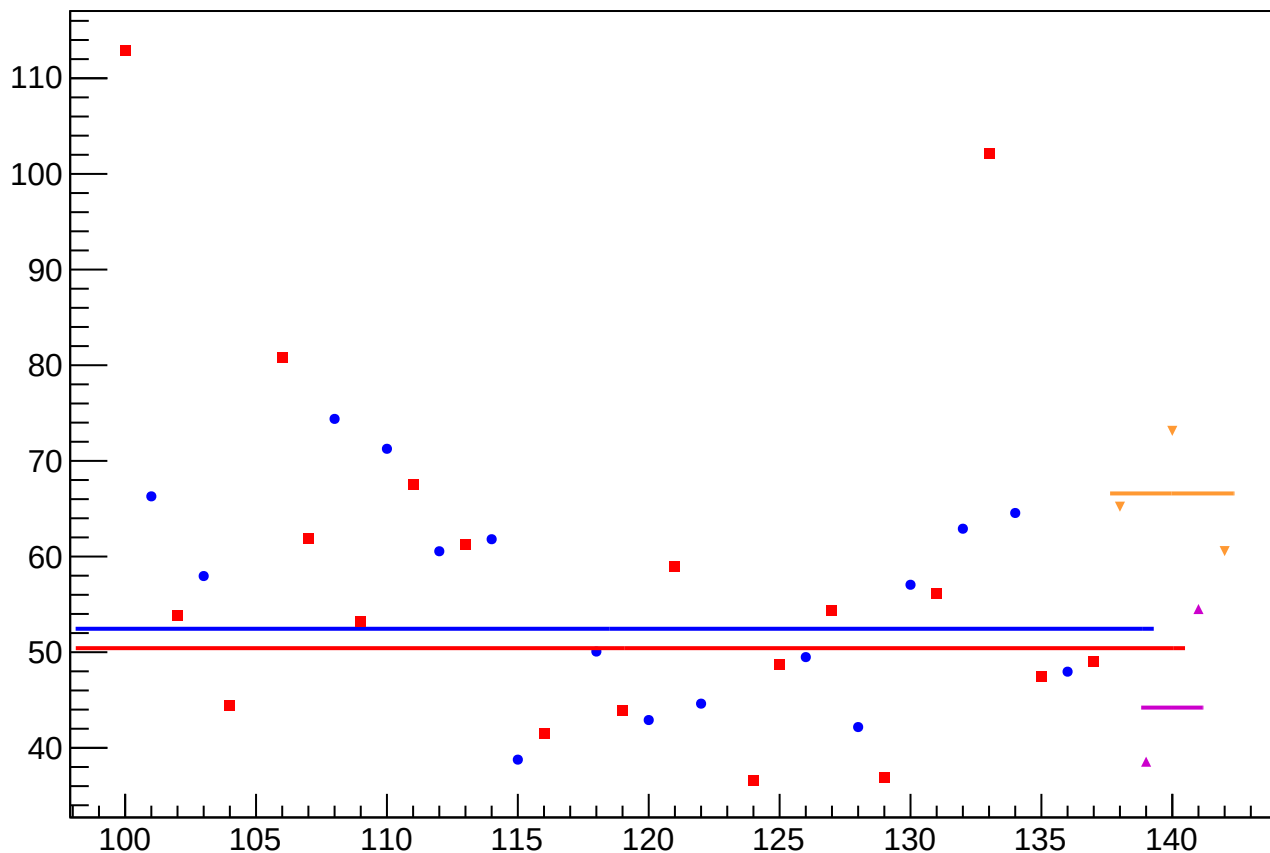
Right: 0.008 $\pm$ 0.014 χ^2 /NDF: 25.4/34

In: 0.027 $\pm$ 0.018 χ^2 /NDF:19.9/17

Out: -0.021 $\pm$ 0.018 χ^2 /NDF:20.3/21

All: 0.004 $\pm$ 0.013 χ^2 /NDF: 43.9/39

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.450+/-0.014 χ^2/NDF : 417967.5/15

Left Out: 66.596+/-0.034 χ^2/NDF :21490.1/2

Right Out: 50.422+/-0.014 χ^2/NDF : 676753.5/18

Left In: 44.209+/-0.025 χ^2/NDF :95151.7/1

Left: 51.823+/-0.020 χ^2/NDF : 395020.1/4

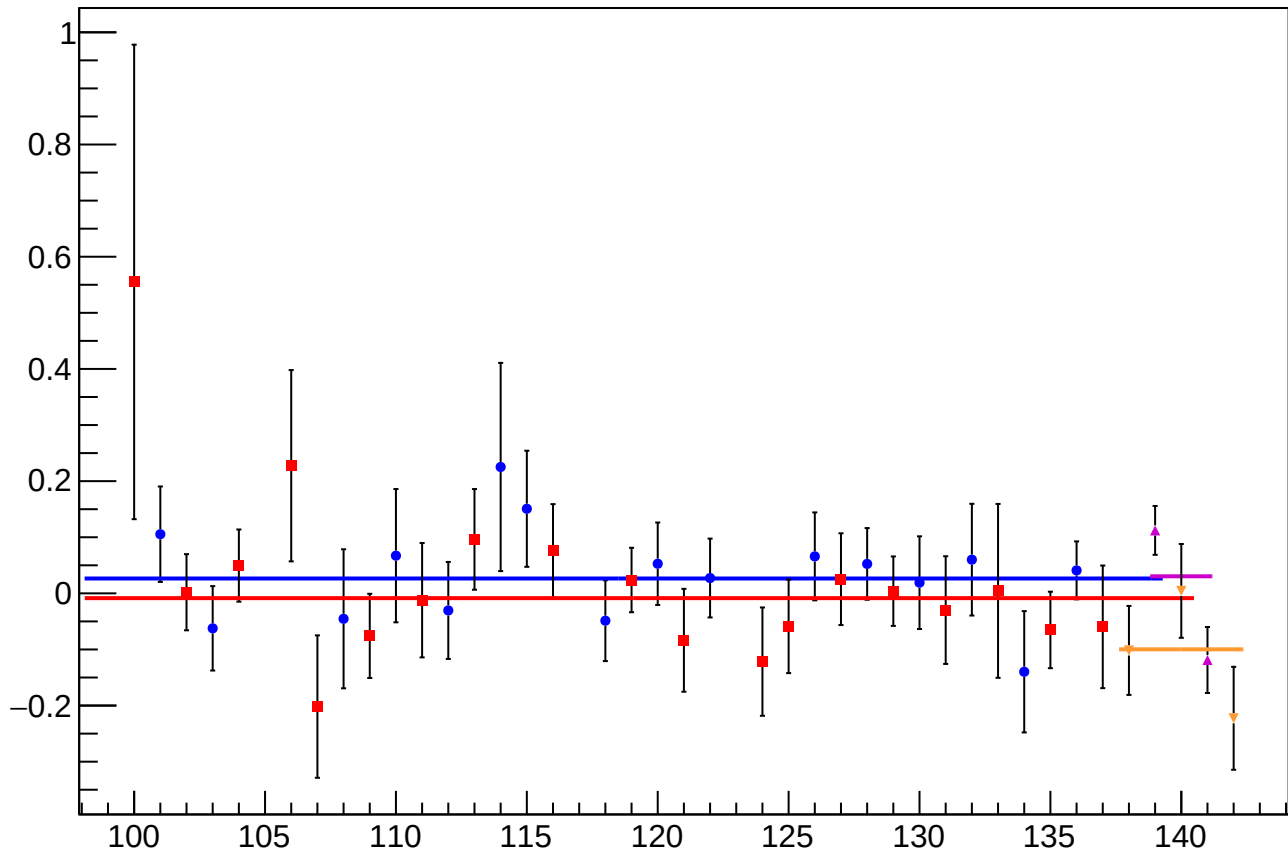
Right: 51.389+/-0.010 χ^2/NDF : 1105059.9/34

In: 50.360+/-0.012 χ^2/NDF :595897.6/17

Out: 52.649+/-0.013 χ^2/NDF :888125.0/21

All: 51.475+/-0.009 χ^2/NDF : 1500454.5/39

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.020 χ^2 /NDF: 9.9/15

Left Out: -0.100 $\pm$ 0.049 χ^2 /NDF:3.3/2

Right Out: -0.009 $\pm$ 0.019 χ^2 /NDF: 13.9/18

Left In: 0.030 $\pm$ 0.035 χ^2 /NDF:10.0/1

Left: -0.014 $\pm$ 0.028 χ^2 /NDF: 18.0/4

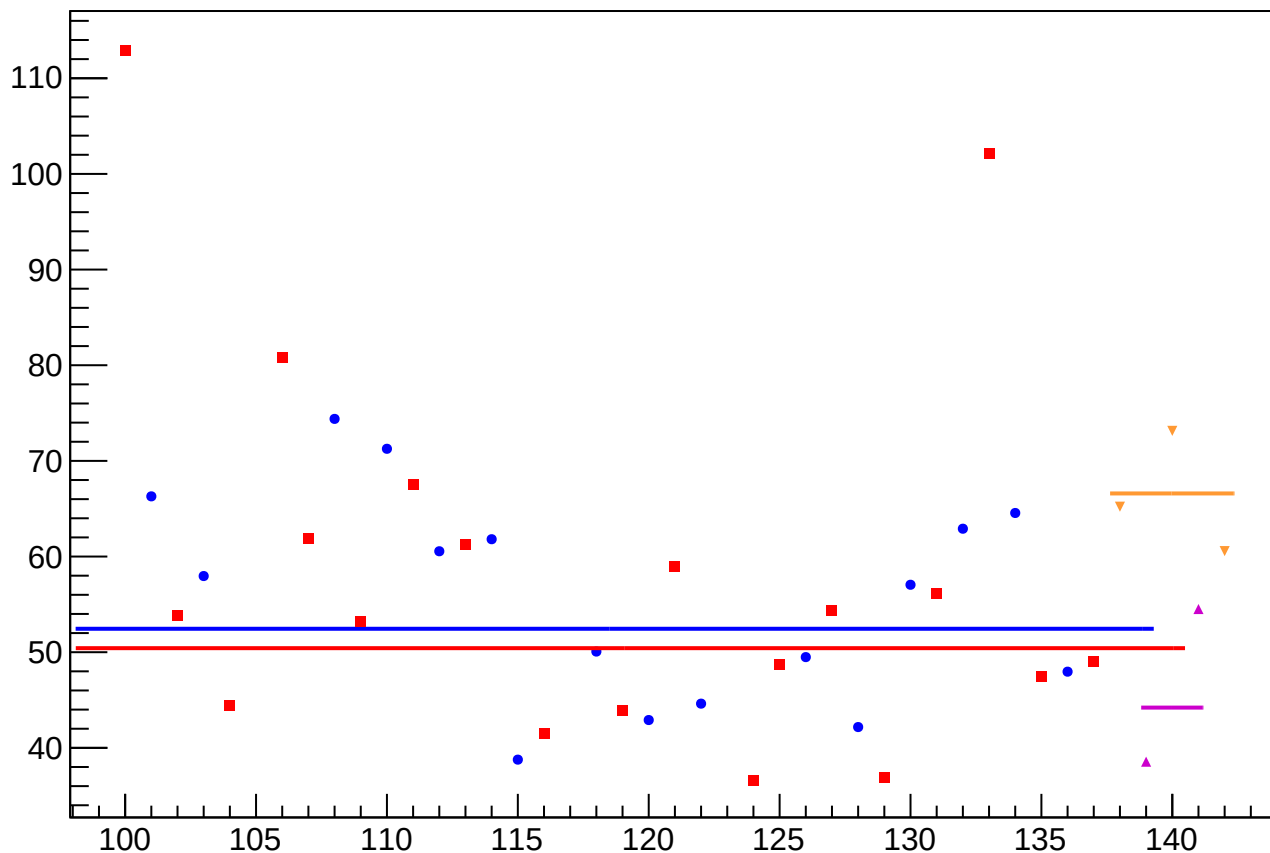
Right: 0.008 $\pm$ 0.014 χ^2 /NDF: 25.4/34

In: 0.027 $\pm$ 0.018 χ^2 /NDF:19.9/17

Out: -0.021 $\pm$ 0.018 χ^2 /NDF:20.3/21

All: 0.004 $\pm$ 0.013 χ^2 /NDF: 43.9/39

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.450 $\pm$ 0.014 χ^2 /NDF: 417967.5/15

Left Out: 66.596 $\pm$ 0.034 χ^2 /NDF:21490.1/2

Right Out: 50.422 $\pm$ 0.014 χ^2 /NDF: 676753.5/18

Left In: 44.209 $\pm$ 0.025 χ^2 /NDF:95151.7/1

Left: 51.823 $\pm$ 0.020 χ^2 /NDF: 395020.1/4

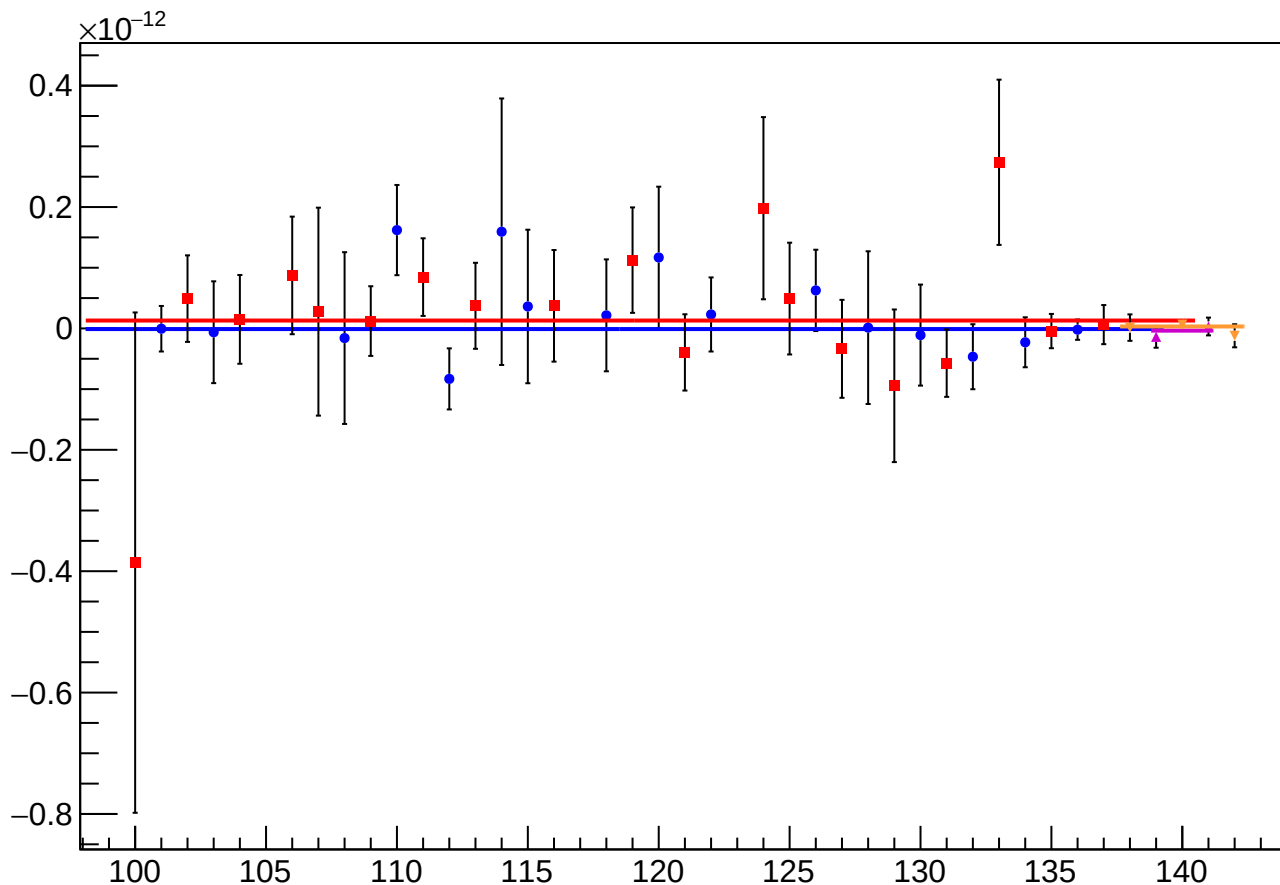
Right: 51.389 $\pm$ 0.010 χ^2 /NDF: 1105059.9/34

In: 50.360 $\pm$ 0.012 χ^2 /NDF:595897.6/17

Out: 52.649 $\pm$ 0.013 χ^2 /NDF:888125.0/21

All: 51.475 $\pm$ 0.009 χ^2 /NDF: 1500454.5/39

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 11.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 13.7/18

Left In: -0.000+/-0.000 χ^2/NDF : 0.5/1

Left: 0.000+/-0.000 χ^2/NDF : 1.6/4

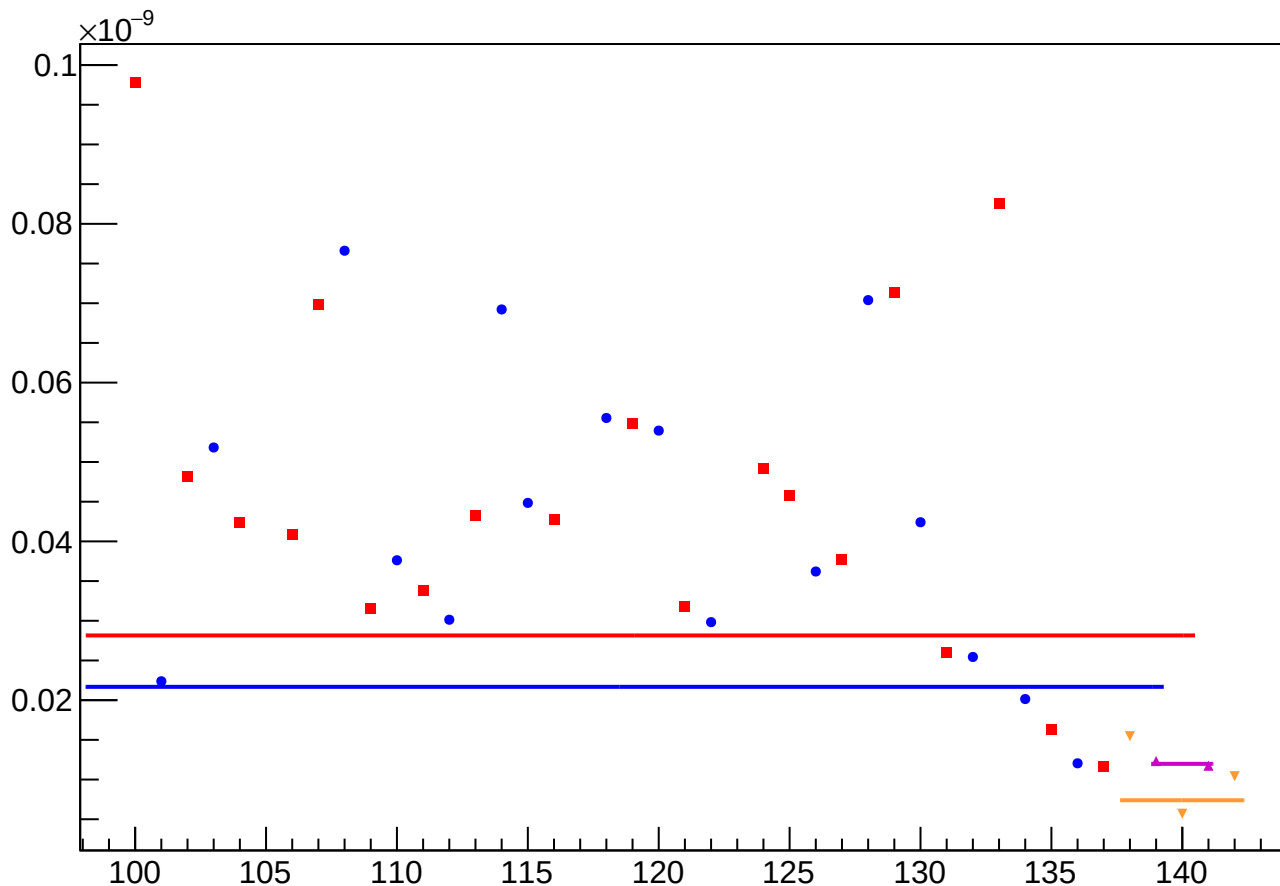
Right: 0.000+/-0.000 χ^2/NDF : 25.5/34

In: -0.000+/-0.000 χ^2/NDF : 11.8/17

Out: 0.000+/-0.000 χ^2/NDF : 14.8/21

All: 0.000+/-0.000 χ^2/NDF : 27.2/39

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2522749.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 411332.2/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2381736.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 1294.9/1

Left: 0.000+/-0.000 χ^2/NDF : 647652.6/4

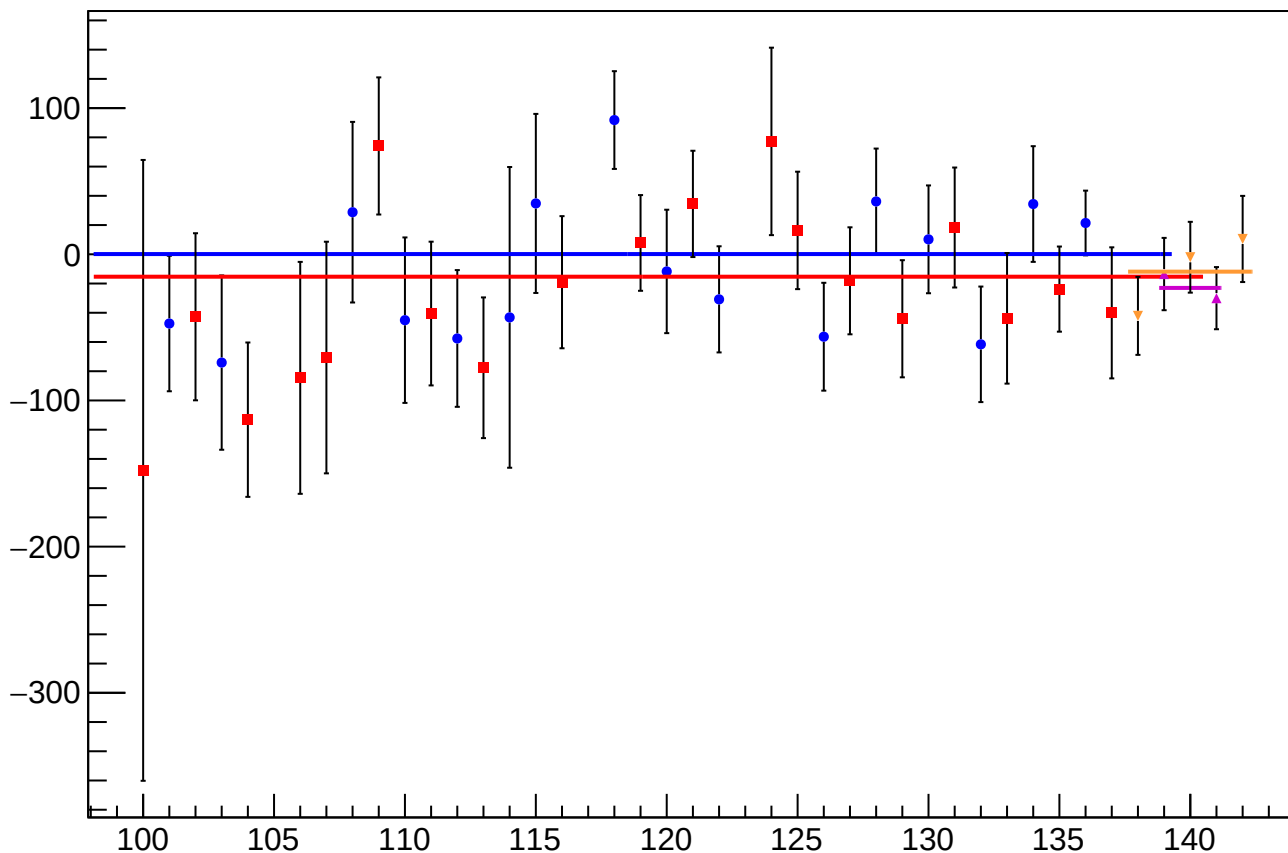
Right: 0.000+/-0.000 χ^2/NDF : 5141383.5/34

In: 0.000+/-0.000 χ^2/NDF : 3215196.4/17

Out: 0.000+/-0.000 χ^2/NDF : 6099627.4/21

All: 0.000+/-0.000 χ^2/NDF : 9804610.0/39

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: 0.155 ± 10.048 χ^2/NDF : 21.3/15

Left Out: -11.873 ± 15.320 χ^2/NDF : 2.0/2

Right Out: -15.333 ± 10.267 χ^2/NDF : 17.9/18

Left In: -23.004 ± 16.124 χ^2/NDF : 0.3/1

Left: -17.154 ± 11.106 χ^2/NDF : 2.5/4

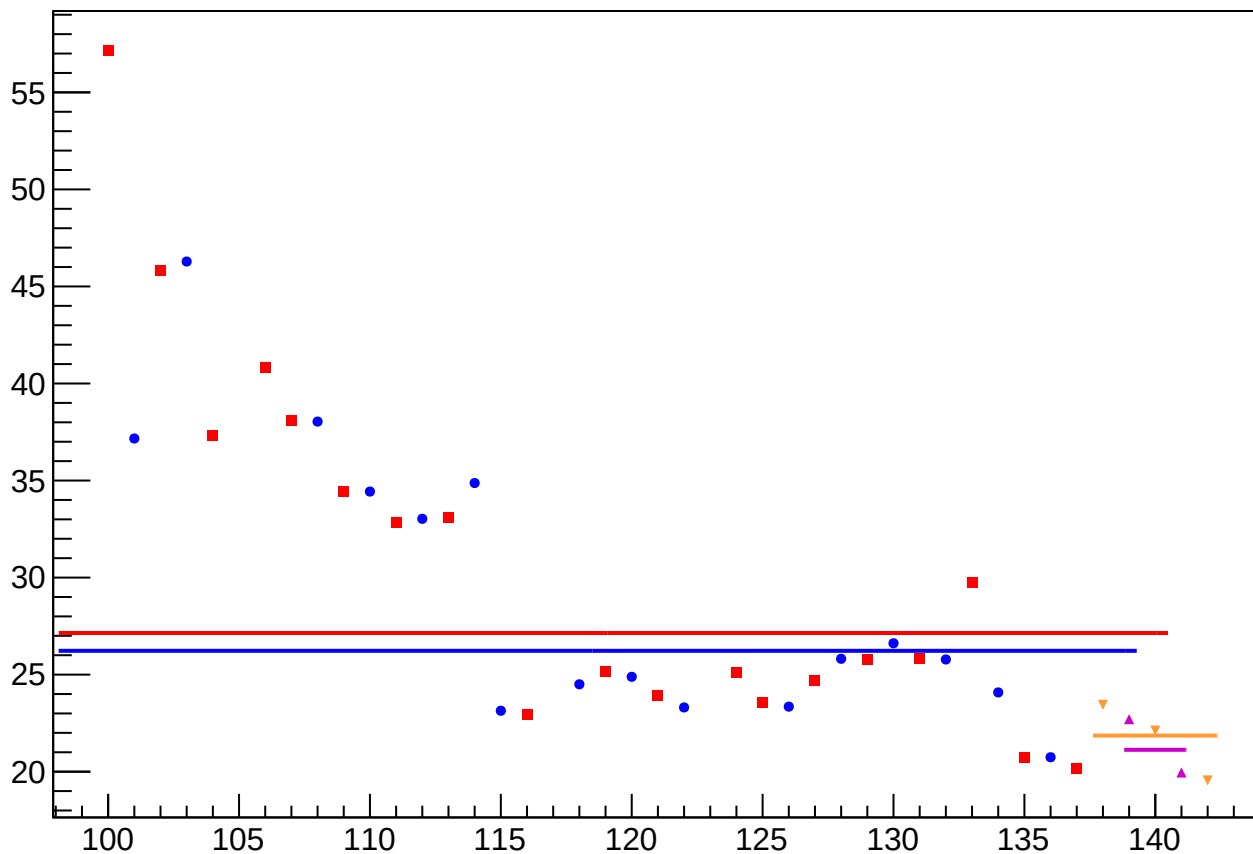
Right: -7.422 ± 7.181 χ^2/NDF : 40.4/34

In: -6.323 ± 8.527 χ^2/NDF : 23.1/17

Out: -14.260 ± 8.529 χ^2/NDF : 20.0/21

All: -10.291 ± 6.030 χ^2/NDF : 43.5/39

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 26.227 $\pm$ 0.007 χ^2 /NDF: 676026.2/15

Left Out: 21.862 $\pm$ 0.011 χ^2 /NDF:19567.2/2

Right Out: 27.145 $\pm$ 0.007 χ^2 /NDF: 755419.8/18

Left In: 21.127 $\pm$ 0.011 χ^2 /NDF:14177.7/1

Left: 21.513 $\pm$ 0.008 χ^2 /NDF: 35928.0/4

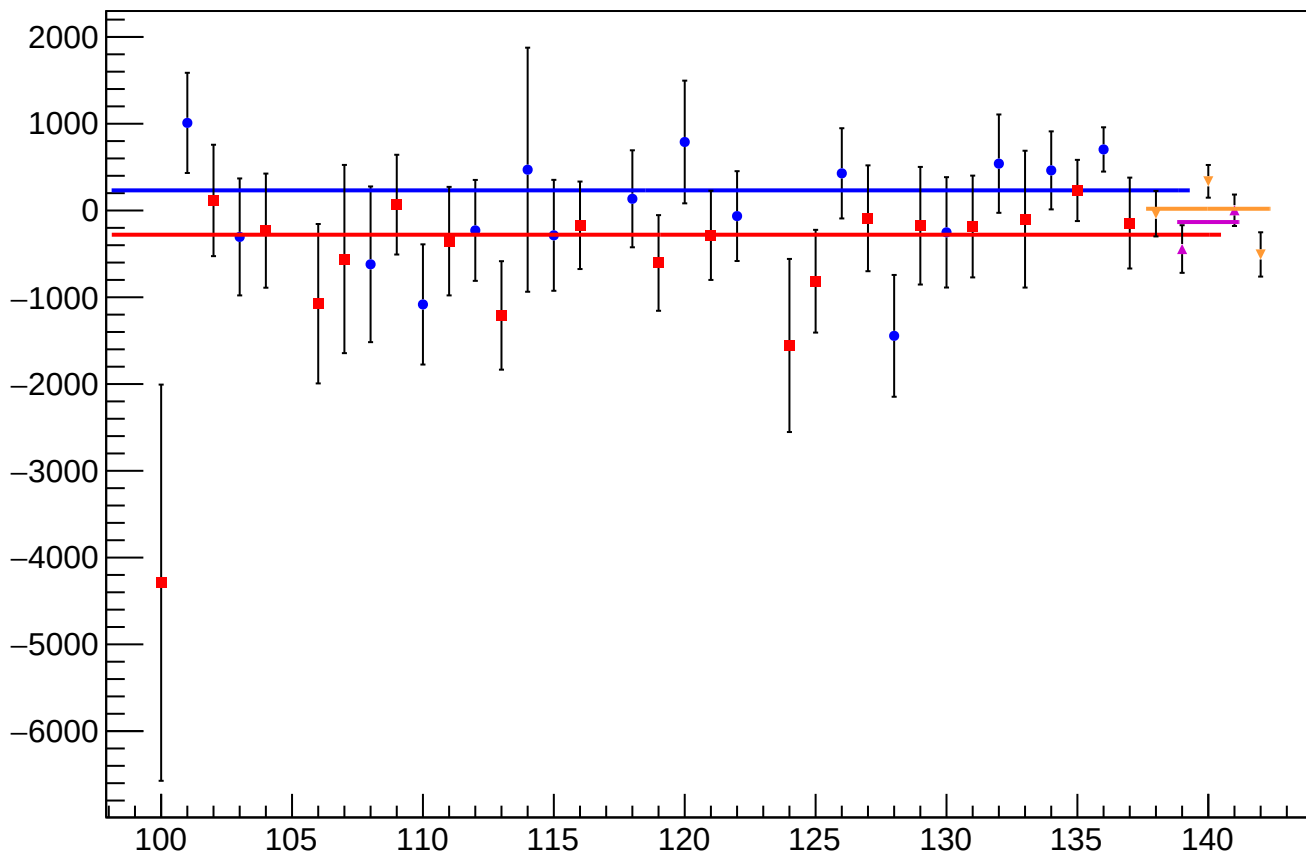
Right: 26.676 $\pm$ 0.005 χ^2 /NDF: 1439621.2/34

In: 24.800 $\pm$ 0.006 χ^2 /NDF:834335.5/17

Out: 25.508 $\pm$ 0.006 χ^2 /NDF:939150.5/21

All: 25.154 $\pm$ 0.004 χ^2 /NDF: 1780367.1/39

asym_sam_1357_2468_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 232.092 ± 134.871 $\chi^2/\text{NDF}: 19.6/15$

Left Out: 20.055 ± 131.241 $\chi^2/\text{NDF}: 7.1/2$

Right Out: -279.042 ± 139.965 $\chi^2/\text{NDF}: 12.1/18$

Left In: -132.999 ± 151.233 $\chi^2/\text{NDF}: 1.8/1$

Left: -45.694 ± 99.122 $\chi^2/\text{NDF}: 9.5/4$

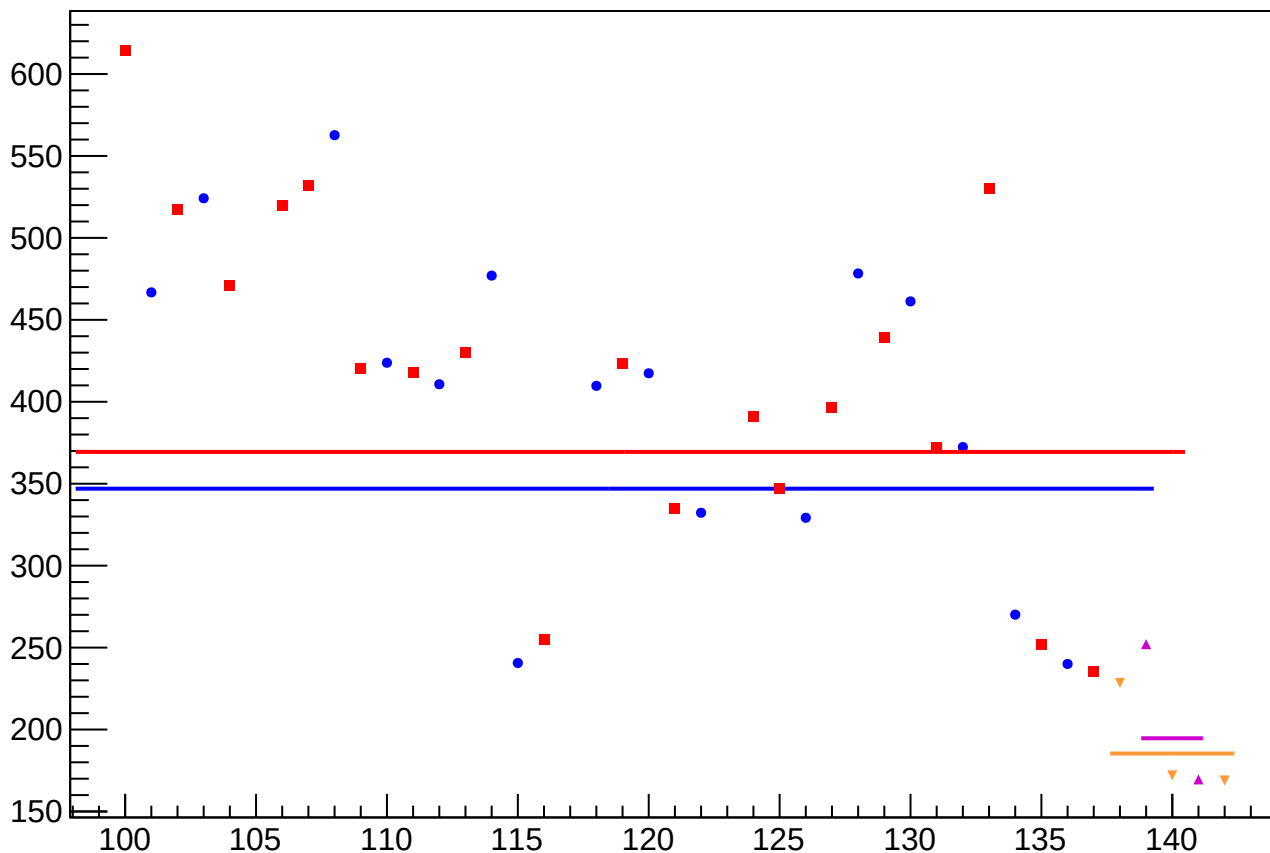
Right: -14.004 ± 97.119 $\chi^2/\text{NDF}: 38.6/34$

In: 70.358 ± 100.658 $\chi^2/\text{NDF}: 24.7/17$

Out: -119.883 ± 95.737 $\chi^2/\text{NDF}: 21.6/21$

All: -29.526 ± 69.371 $\chi^2/\text{NDF}: 48.2/39$

asym_sam_1357_2468_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 346.969+/-0.095 χ^2/NDF : 1058029.4/15

Left Out: 185.359+/-0.093 χ^2/NDF : 72431.3/2

Right Out: 369.410+/-0.099 χ^2/NDF : 918852.6/18

Left In: 194.663+/-0.107 χ^2/NDF : 125837.4/1

Left: 189.356+/-0.070 χ^2/NDF : 202586.0/4

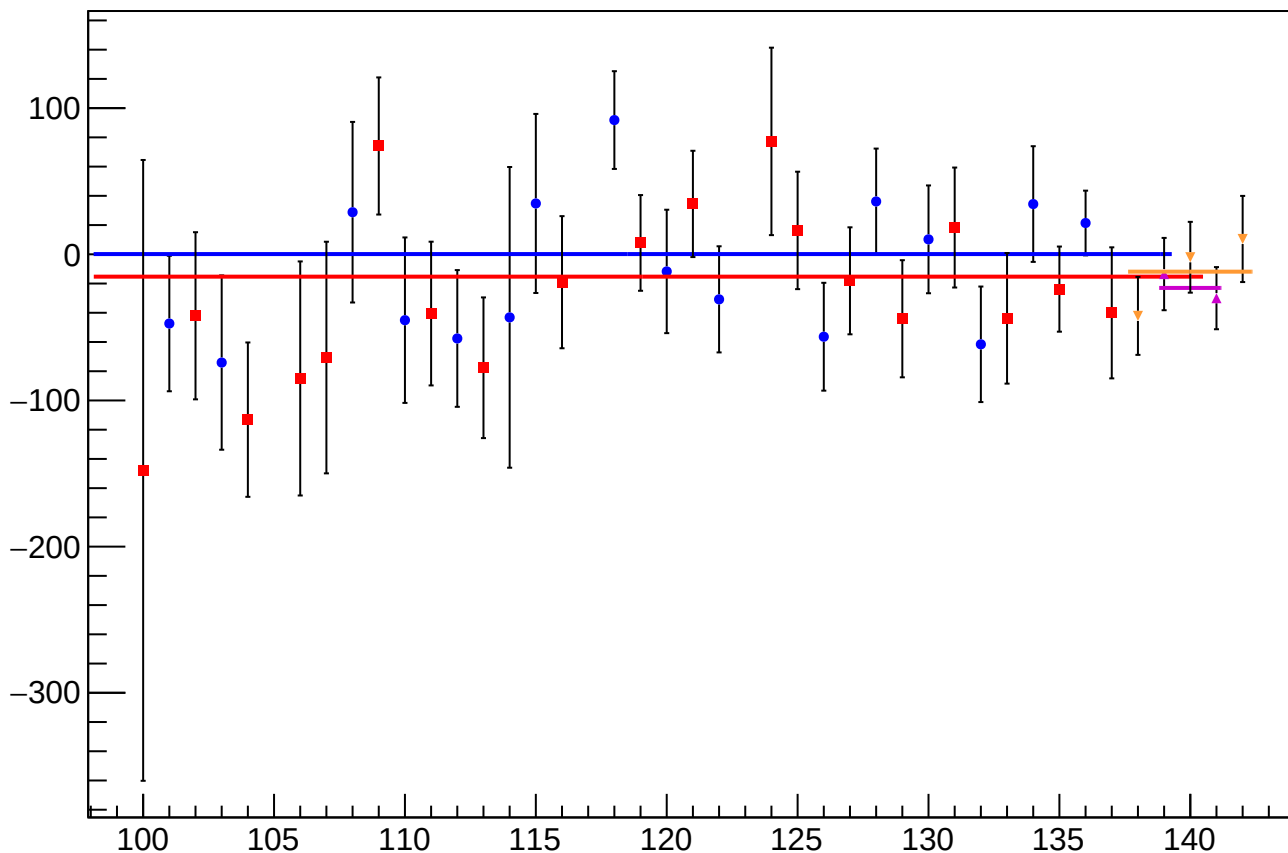
Right: 357.774+/-0.069 χ^2/NDF : 2003541.6/34

In: 279.498+/-0.071 χ^2/NDF : 2313740.7/17

Out: 271.471+/-0.068 χ^2/NDF : 2831577.4/21

All: 275.283+/-0.049 χ^2/NDF : 5151996.4/39

cor_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: 0.157 ± 10.048 χ^2/NDF : 21.3/15

Left Out: -11.877 ± 15.320 χ^2/NDF : 2.0/2

Right Out: -15.292 ± 10.269 χ^2/NDF : 17.9/18

Left In: -23.008 ± 16.124 χ^2/NDF : 0.3/1

Left: -17.158 ± 11.106 χ^2/NDF : 2.5/4

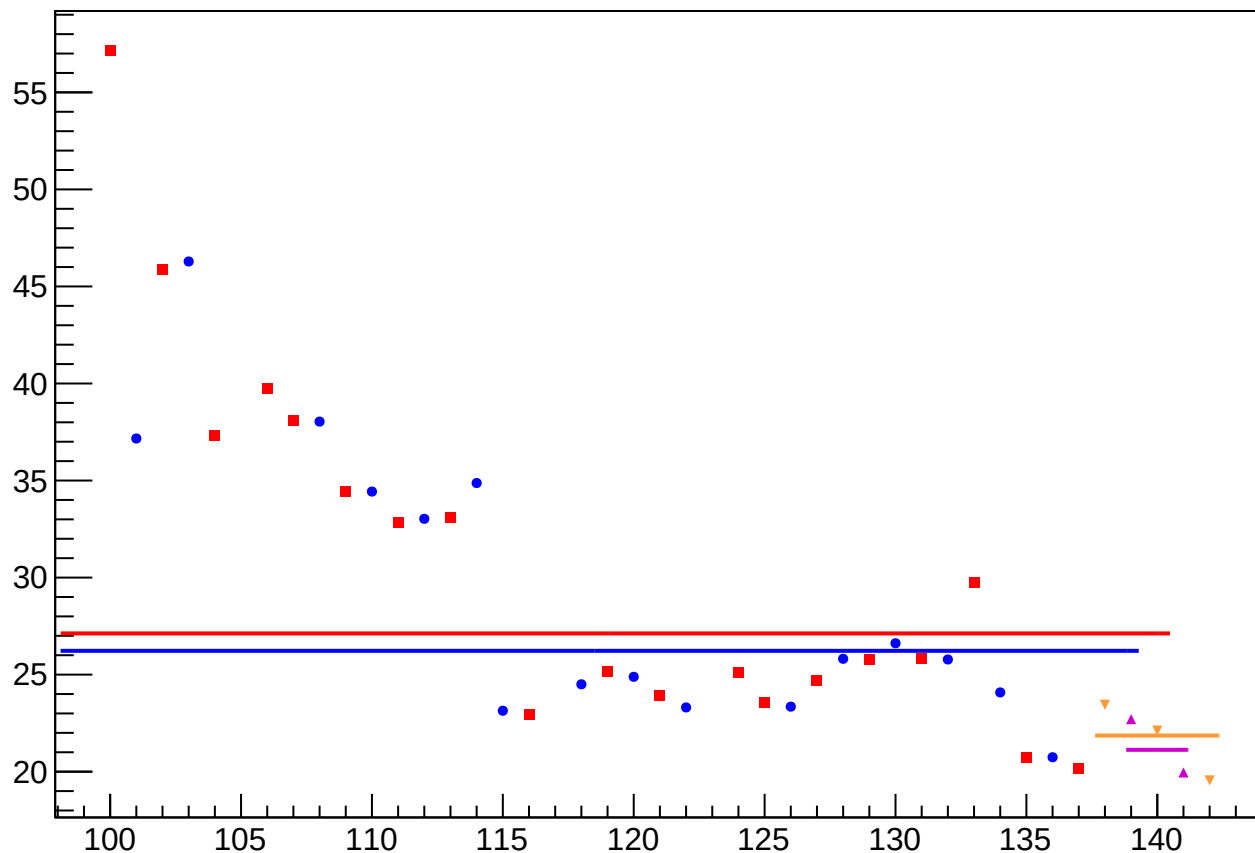
Right: -7.399 ± 7.182 χ^2/NDF : 40.4/34

In: -6.322 ± 8.527 χ^2/NDF : 23.1/17

Out: -14.233 ± 8.530 χ^2/NDF : 20.0/21

All: -10.277 ± 6.031 χ^2/NDF : 43.5/39

cor_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 26.227 $\pm$ 0.007 χ^2 /NDF: 676029.5/15

Left Out: 21.862 $\pm$ 0.011 χ^2 /NDF:19567.2/2

Right Out: 27.123 $\pm$ 0.007 χ^2 /NDF: 745675.5/18

Left In: 21.127 $\pm$ 0.011 χ^2 /NDF:14177.7/1

Left: 21.513 $\pm$ 0.008 χ^2 /NDF: 35928.0/4

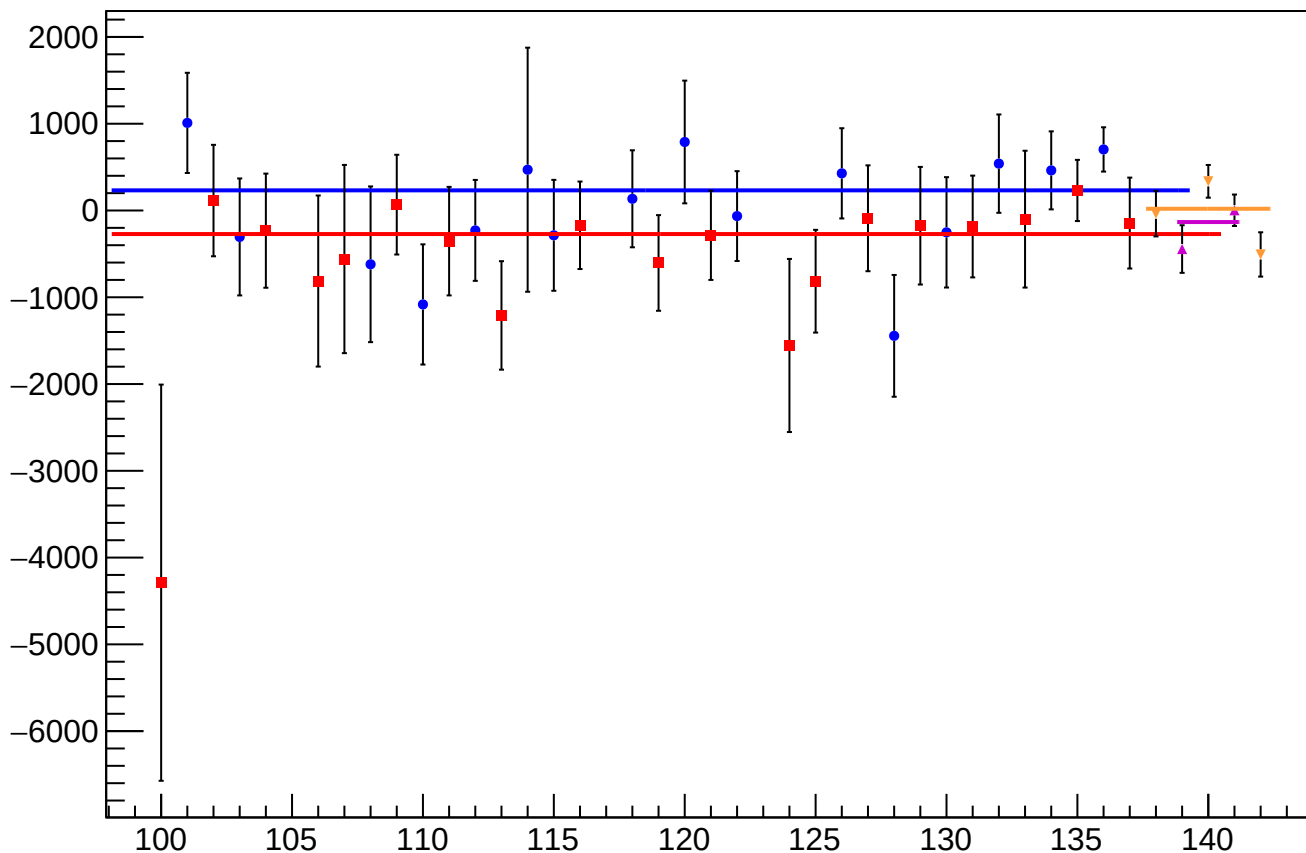
Right: 26.665 $\pm$ 0.005 χ^2 /NDF: 1429493.5/34

In: 24.800 $\pm$ 0.006 χ^2 /NDF:834338.9/17

Out: 25.492 $\pm$ 0.006 χ^2 /NDF:928030.7/21

All: 25.146 $\pm$ 0.004 χ^2 /NDF: 1768951.7/39

asym_sam_1357_2468_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 232.084 ± 134.871 $\chi^2/\text{NDF}: 19.6/15$

Left Out: 20.048 ± 131.241 $\chi^2/\text{NDF}: 7.1/2$

Right Out: -271.412 ± 140.183 $\chi^2/\text{NDF}: 11.6/18$

Left In: -133.001 ± 151.233 $\chi^2/\text{NDF}: 1.8/1$

Left: -45.699 ± 99.122 $\chi^2/\text{NDF}: 9.5/4$

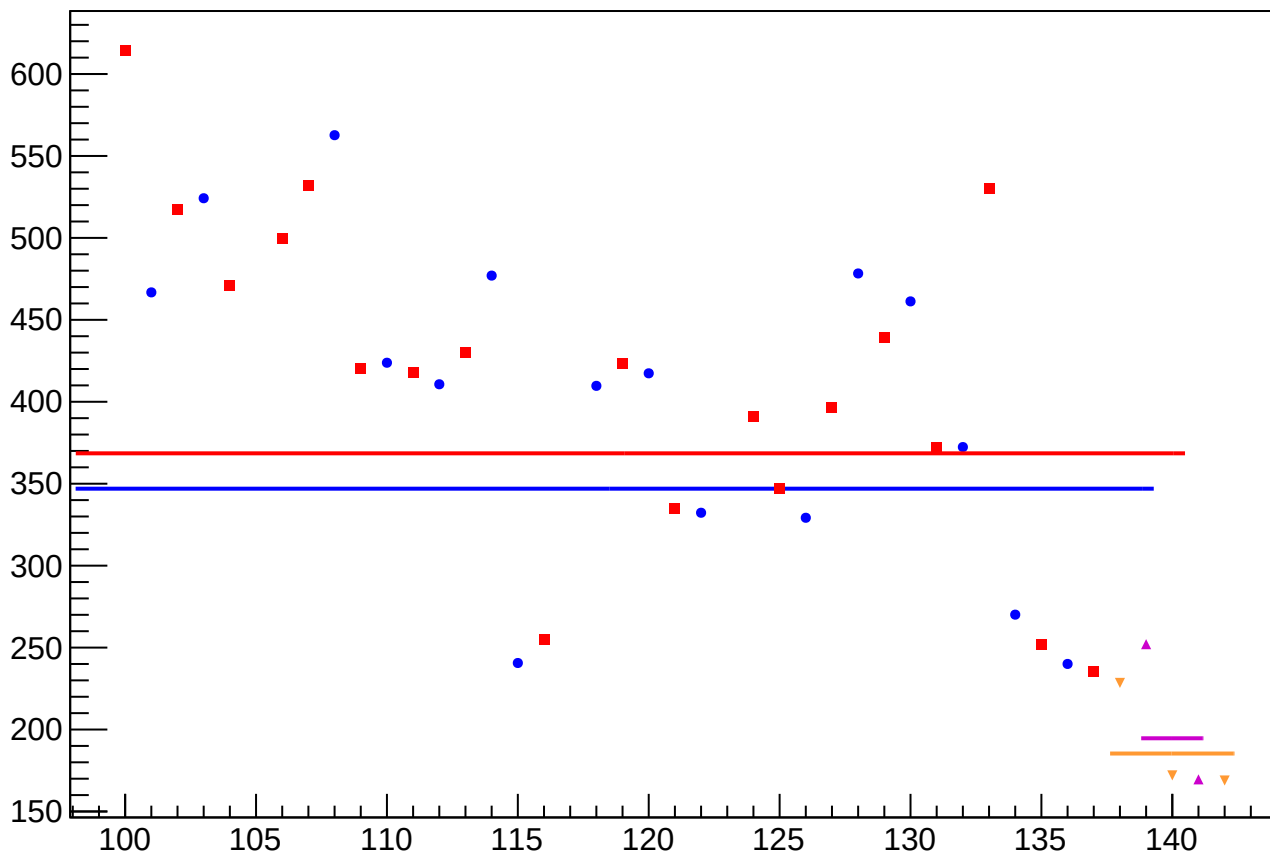
Right: -9.945 ± 97.192 $\chi^2/\text{NDF}: 38.0/34$

In: 70.353 ± 100.658 $\chi^2/\text{NDF}: 24.7/17$

Out: -116.091 ± 95.807 $\chi^2/\text{NDF}: 21.0/21$

All: -27.470 ± 69.397 $\chi^2/\text{NDF}: 47.6/39$

asym_sam_1357_2468_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 346.969+/-0.095 χ^2/NDF : 1058057.4/15

Left Out: 185.359+/-0.093 χ^2/NDF : 72431.4/2

Right Out: 368.543+/-0.099 χ^2/NDF : 900219.6/18

Left In: 194.663+/-0.107 χ^2/NDF : 125836.6/1

Left: 189.356+/-0.070 χ^2/NDF : 202585.6/4

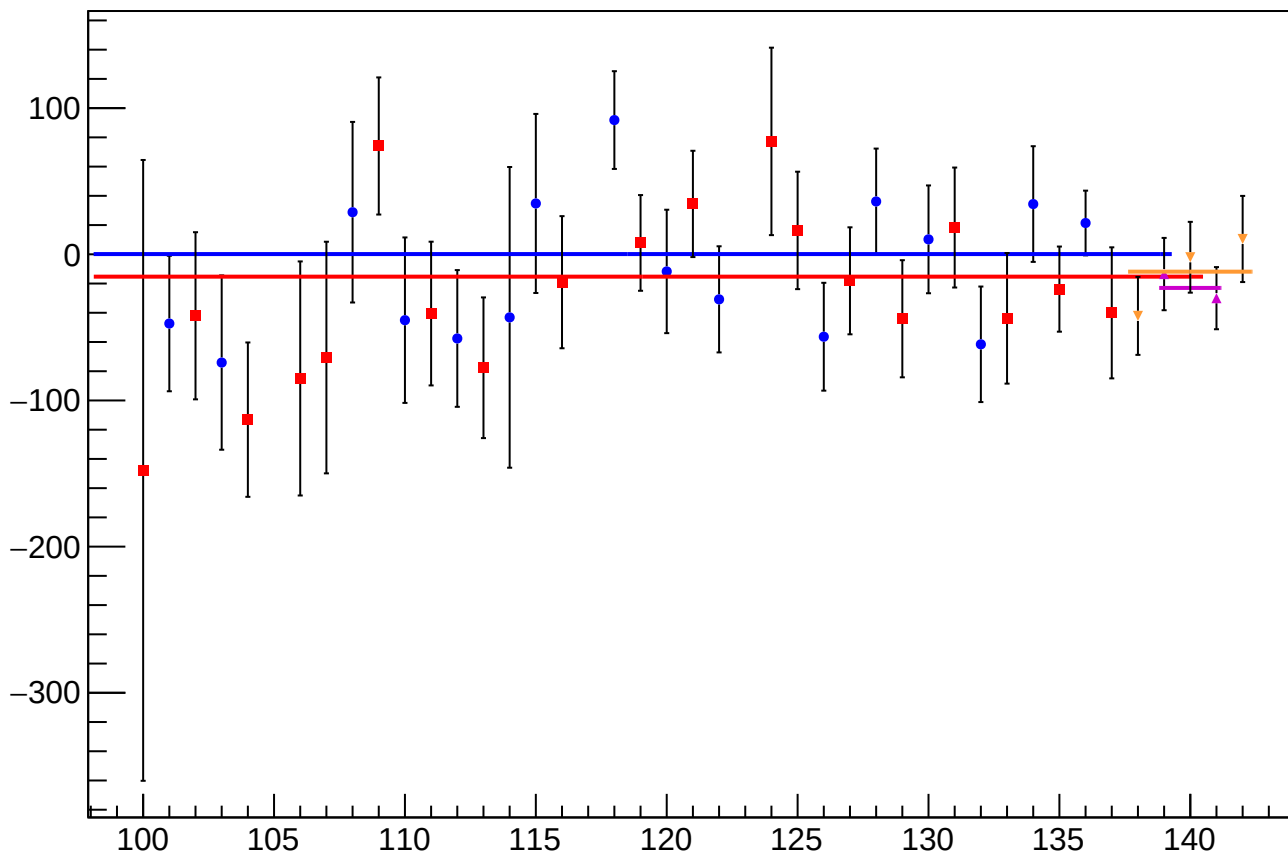
Right: 357.340+/-0.069 χ^2/NDF : 1982876.2/34

In: 279.498+/-0.071 χ^2/NDF : 2313766.8/17

Out: 270.923+/-0.068 χ^2/NDF : 2792638.9/21

All: 274.999+/-0.049 χ^2/NDF : 5114020.7/39

eigen_cor_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: 0.157 ± 10.048 χ^2/NDF : 21.3/15

Left Out: -11.877 ± 15.320 χ^2/NDF : 2.0/2

Right Out: -15.292 ± 10.269 χ^2/NDF : 17.9/18

Left In: -23.008 ± 16.124 χ^2/NDF : 0.3/1

Left: -17.158 ± 11.106 χ^2/NDF : 2.5/4

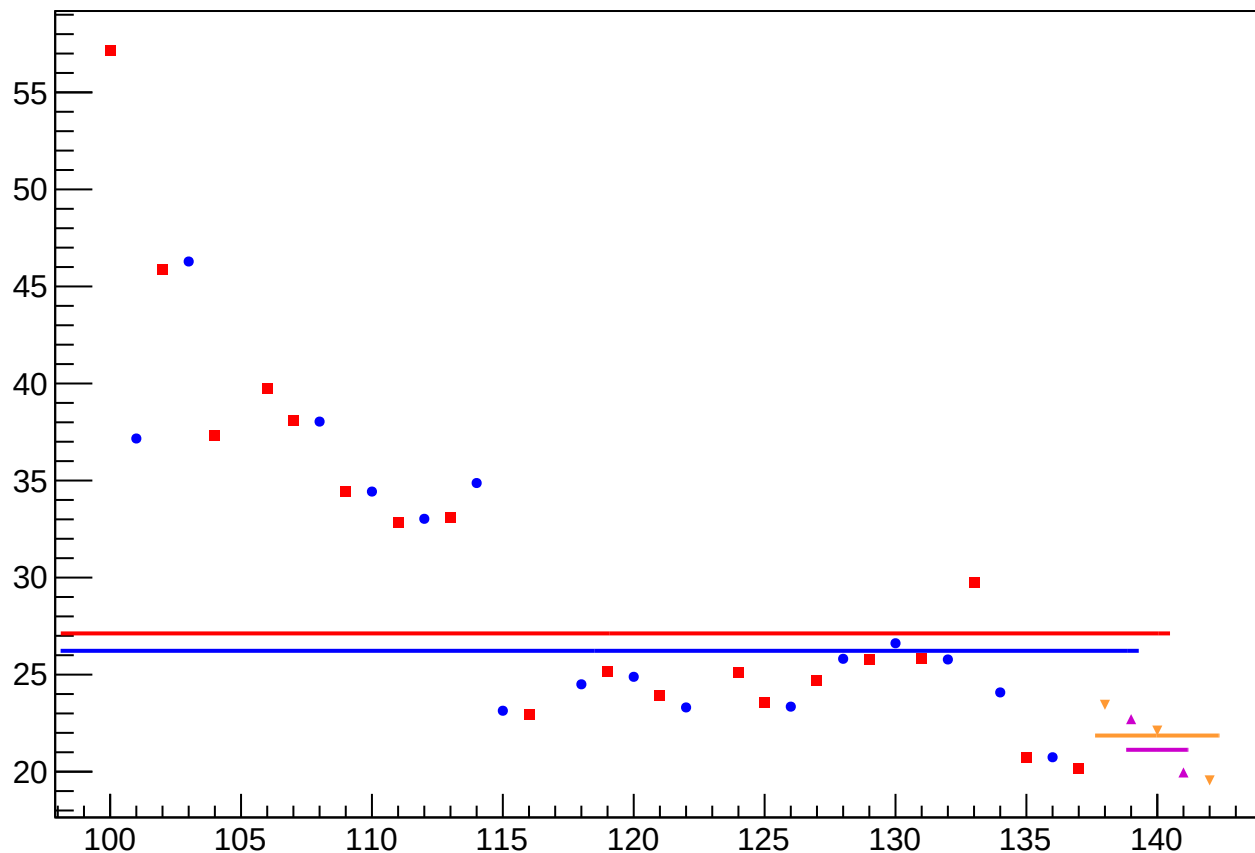
Right: -7.399 ± 7.182 χ^2/NDF : 40.4/34

In: -6.322 ± 8.527 χ^2/NDF : 23.1/17

Out: -14.233 ± 8.530 χ^2/NDF : 20.0/21

All: -10.277 ± 6.031 χ^2/NDF : 43.5/39

eigen_cor_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 26.227+/-0.007 χ^2/NDF : 676029.5/15

Left Out: 21.862+/-0.011 χ^2/NDF : 19567.2/2

Right Out: 27.123+/-0.007 χ^2/NDF : 745675.5/18

Left In: 21.127+/-0.011 χ^2/NDF : 14177.7/1

Left: 21.513+/-0.008 χ^2/NDF : 35928.0/4

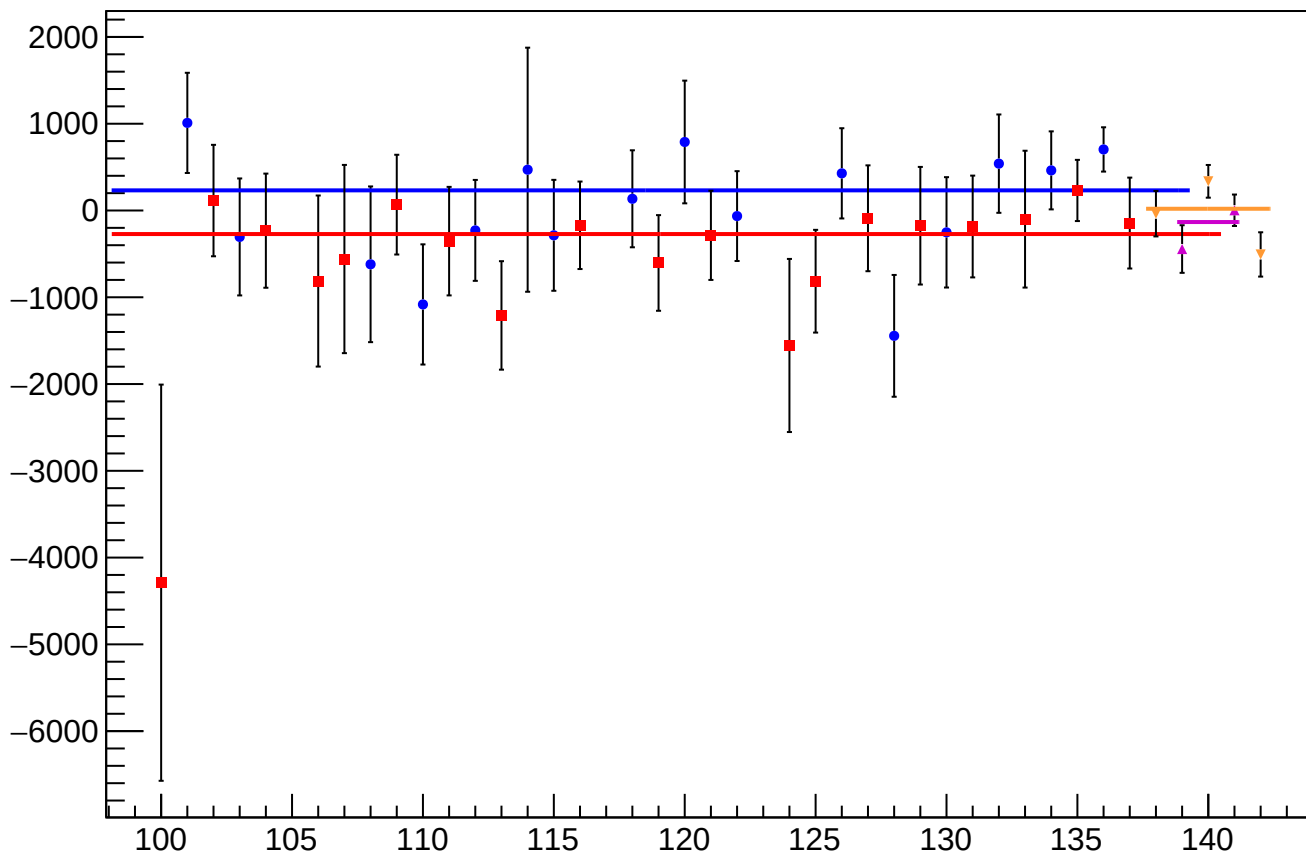
Right: 26.665+/-0.005 χ^2/NDF : 1429493.5/34

In: 24.800+/-0.006 χ^2/NDF : 834338.9/17

Out: 25.492+/-0.006 χ^2/NDF : 928030.7/21

All: 25.146+/-0.004 χ^2/NDF : 1768951.7/39

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 232.084 $\pm$ 134.871 χ^2 /NDF: 19.6/15

Left Out: 20.048 $\pm$ 131.241 χ^2 /NDF:7.1/2

Right Out: -271.412 $\pm$ 140.183 χ^2 /NDF: 11.6/18

Left In: -133.001 $\pm$ 151.233 χ^2 /NDF:1.8/1

Left: -45.699 $\pm$ 99.122 χ^2 /NDF: 9.5/4

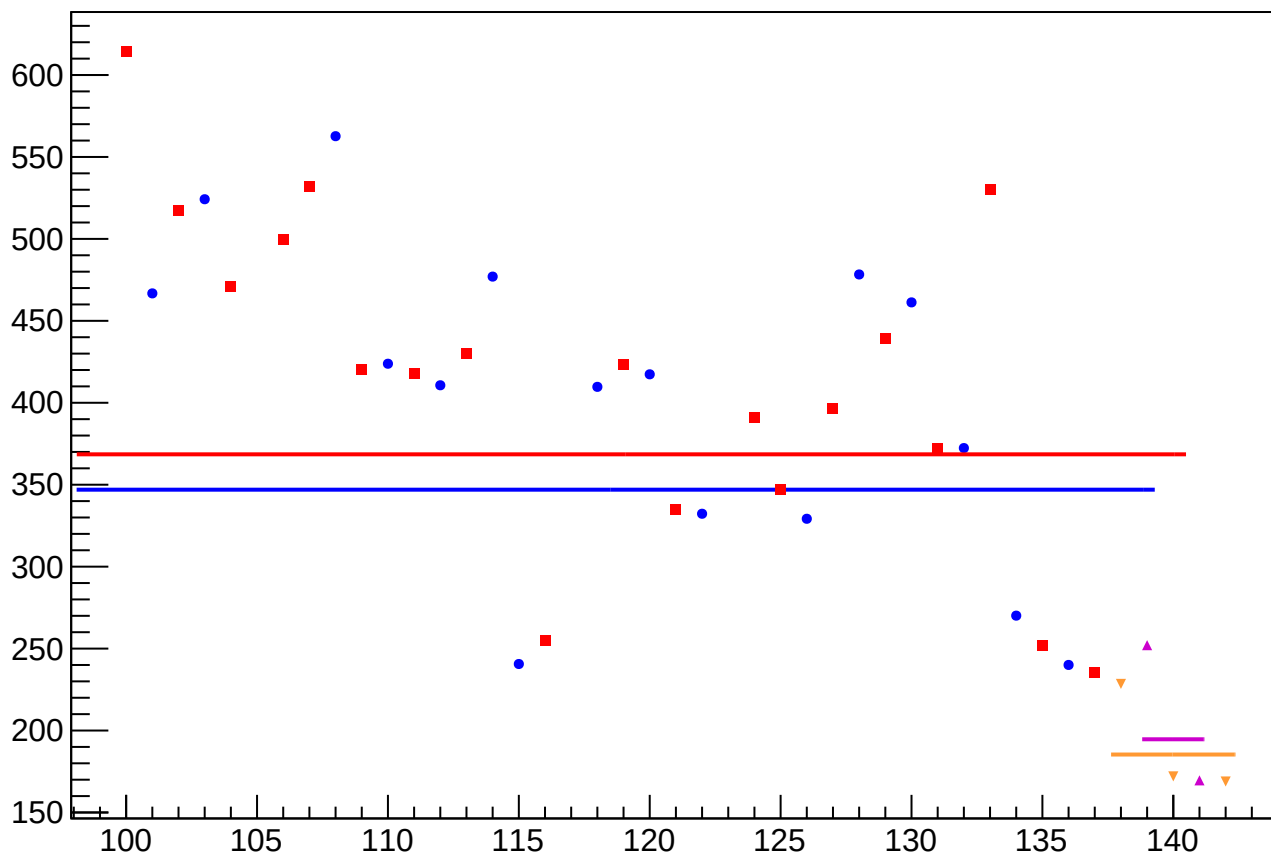
Right: -9.945 $\pm$ 97.192 χ^2 /NDF: 38.0/34

In: 70.353 $\pm$ 100.658 χ^2 /NDF:24.7/17

Out: -116.091 $\pm$ 95.807 χ^2 /NDF:21.0/21

All: -27.470 $\pm$ 69.397 χ^2 /NDF: 47.6/39

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 346.969 $\pm$ 0.095 χ^2/NDF : 1058057.4/15

Left Out: 185.359 $\pm$ 0.093 χ^2/NDF : 72431.4/2

Right Out: 368.543 $\pm$ 0.099 χ^2/NDF : 900219.6/18

Left In: 194.663 $\pm$ 0.107 χ^2/NDF : 125836.6/1

Left: 189.356 $\pm$ 0.070 χ^2/NDF : 202585.6/4

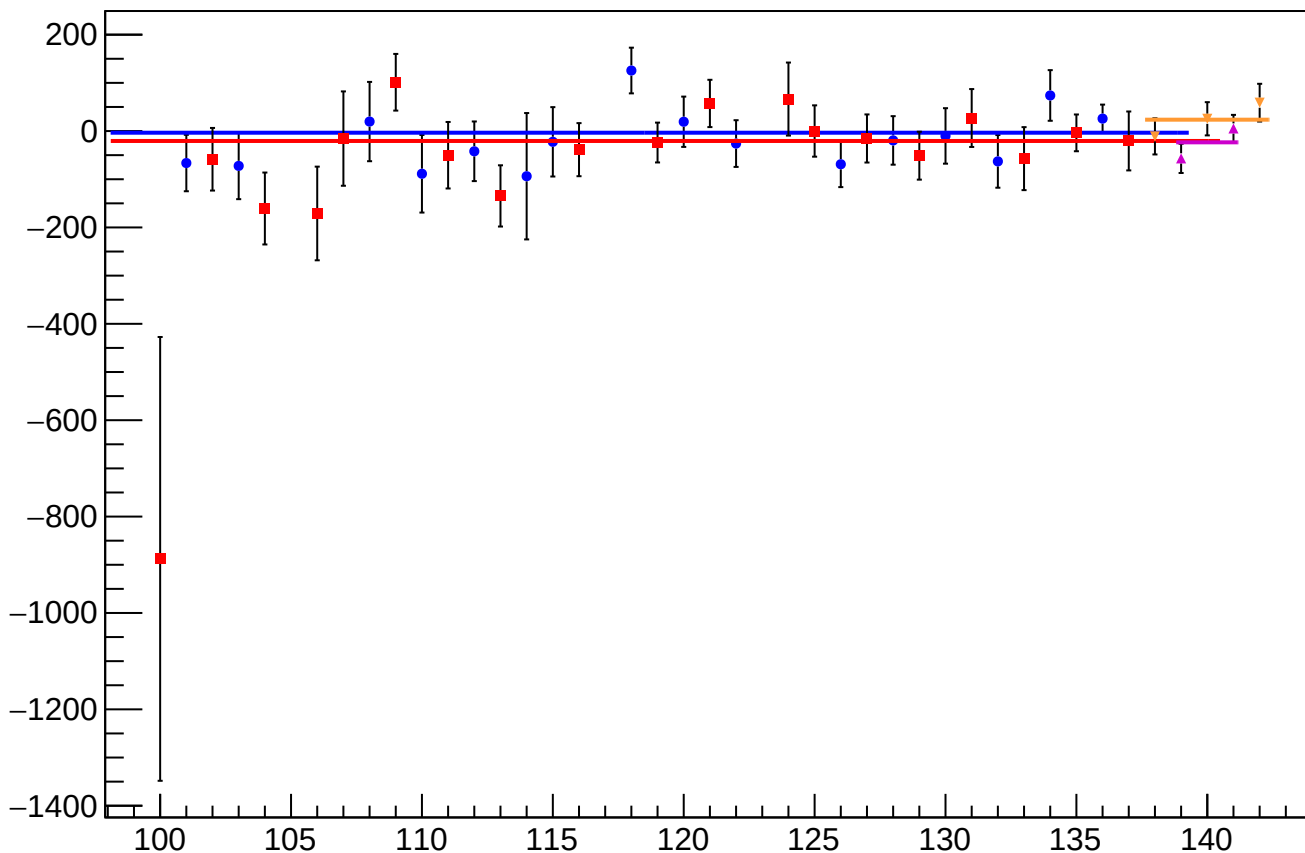
Right: 357.340 $\pm$ 0.069 χ^2/NDF : 1982876.2/34

In: 279.498 $\pm$ 0.071 χ^2/NDF : 2313766.8/17

Out: 270.923 $\pm$ 0.068 χ^2/NDF : 2792638.9/21

All: 274.999 $\pm$ 0.049 χ^2/NDF : 5114020.7/39

dit_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -3.423 ± 13.393 $\chi^2/\text{NDF}: 18.5/15$

Left Out: 23.602 ± 21.304 $\chi^2/\text{NDF}: 1.7/2$

Right Out: -20.569 ± 13.475 $\chi^2/\text{NDF}: 23.1/18$

Left In: -23.401 ± 20.636 $\chi^2/\text{NDF}: 2.3/1$

Left: -0.648 ± 14.823 $\chi^2/\text{NDF}: 6.4/4$

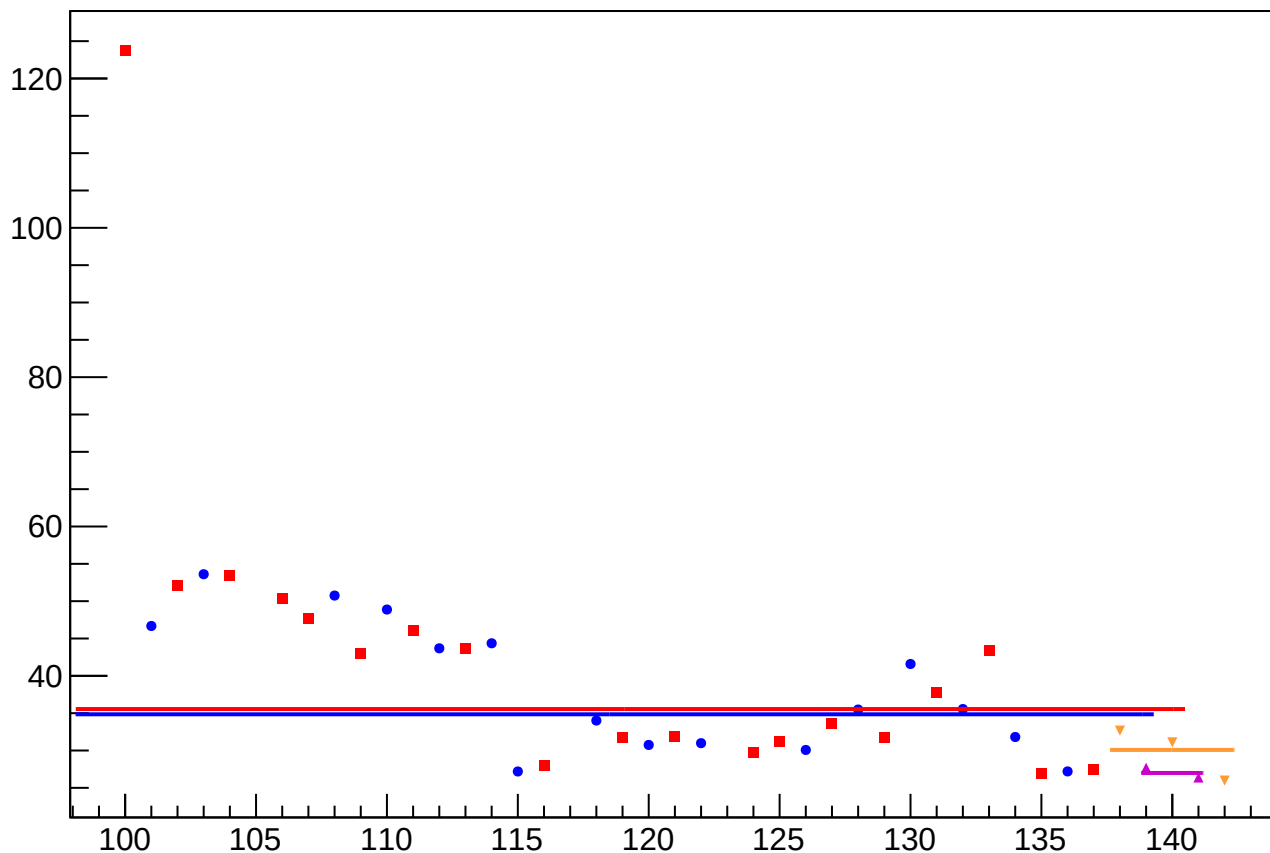
Right: -11.944 ± 9.499 $\chi^2/\text{NDF}: 42.4/34$

In: -9.344 ± 11.234 $\chi^2/\text{NDF}: 21.4/17$

Out: -7.948 ± 11.388 $\chi^2/\text{NDF}: 27.9/21$

All: -8.655 ± 7.998 $\chi^2/\text{NDF}: 49.3/39$

dit_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 34.850 $\pm$ 0.009 χ^2 /NDF: 658141.6/15

Left Out: 30.081 $\pm$ 0.015 χ^2 /NDF: 33176.6/2

Right Out: 35.553 $\pm$ 0.010 χ^2 /NDF: 779880.3/18

Left In: 26.992 $\pm$ 0.015 χ^2 /NDF: 2002.2/1

Left: 28.488 $\pm$ 0.010 χ^2 /NDF: 56875.0/4

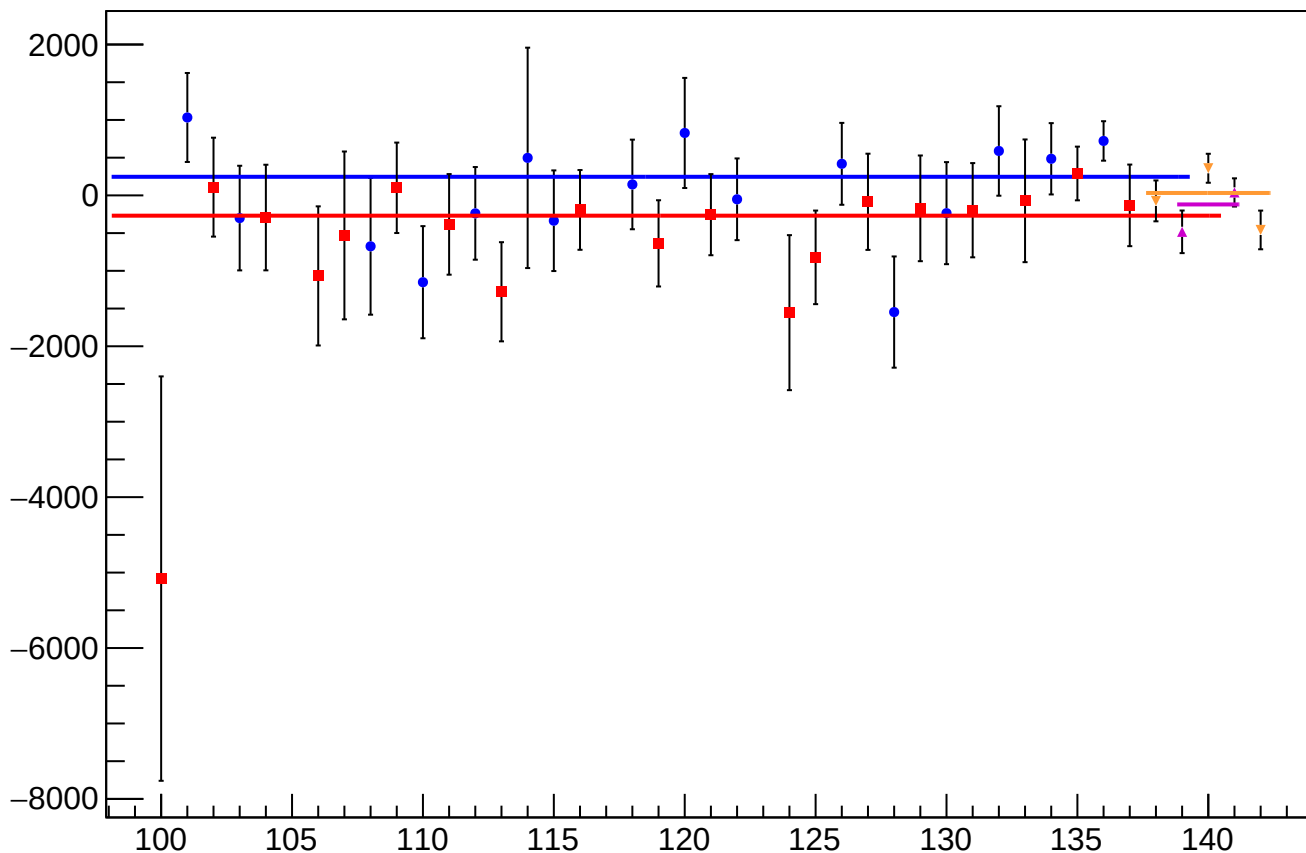
Right: 35.200 $\pm$ 0.007 χ^2 /NDF: 1440755.9/34

In: 32.522 $\pm$ 0.008 χ^2 /NDF: 864205.8/17

Out: 33.990 $\pm$ 0.008 χ^2 /NDF: 907278.9/21

All: 33.246 $\pm$ 0.006 χ^2 /NDF: 1788324.4/39

asym_sam_1357_2468_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 246.507 $\pm$ 140.275 χ^2 /NDF: 19.8/15

Left Out: 32.105 $\pm$ 133.672 χ^2 /NDF: 6.7/2

Right Out: -268.913 $\pm$ 145.295 χ^2 /NDF: 12.6/18

Left In: -119.905 $\pm$ 155.842 χ^2 /NDF: 2.4/1

Left: -32.327 $\pm$ 101.461 χ^2 /NDF: 9.6/4

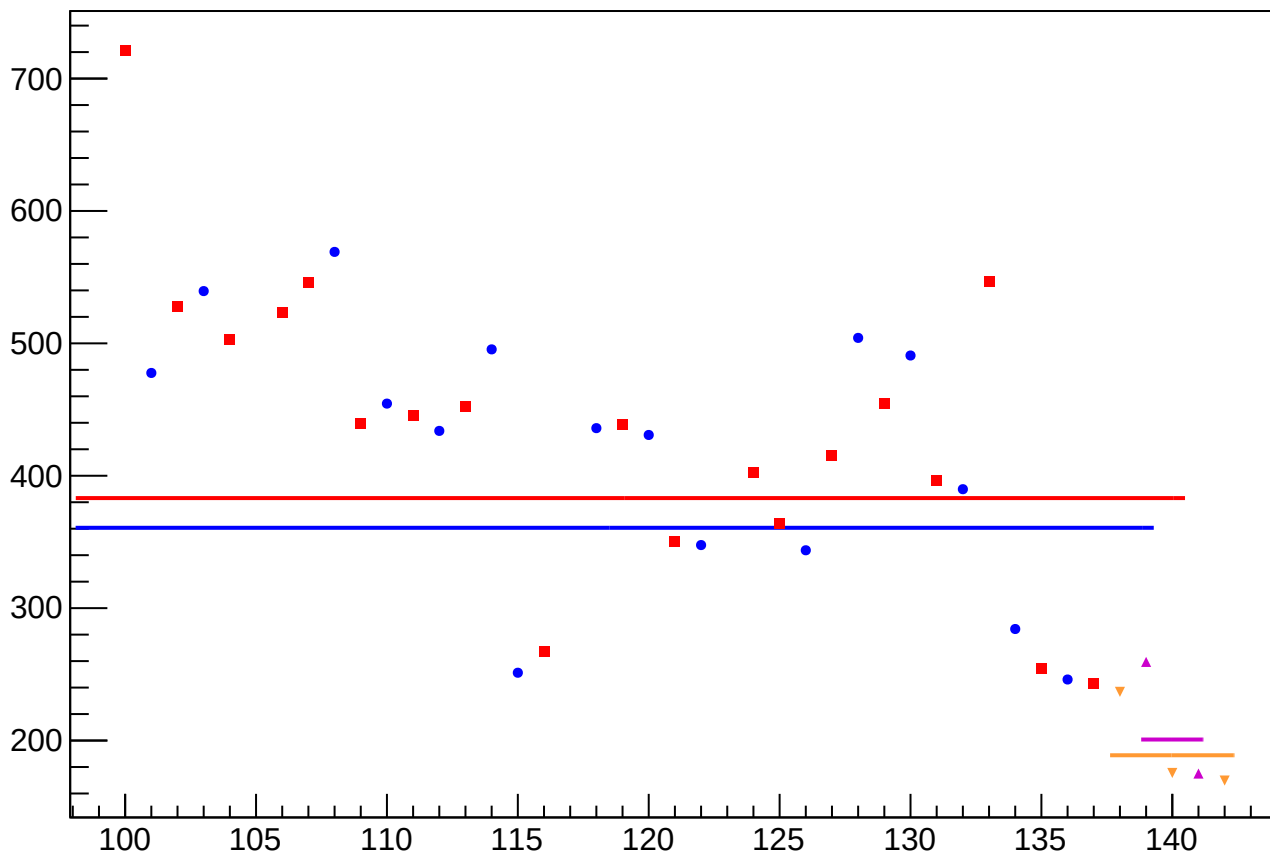
Right: -2.144 $\pm$ 100.917 χ^2 /NDF: 38.9/34

In: 82.510 $\pm$ 104.260 χ^2 /NDF: 25.2/17

Out: -105.883 $\pm$ 98.373 χ^2 /NDF: 21.7/21

All: -17.155 $\pm$ 71.551 χ^2 /NDF: 48.6/39

asym_sam_1357_2468_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 360.692 $\pm$ 0.099 χ^2 /NDF: 1092760.6/15

Left Out: 188.875 $\pm$ 0.095 χ^2 /NDF:83335.8/2

Right Out: 383.132 $\pm$ 0.103 χ^2 /NDF: 963125.0/18

Left In: 200.763 $\pm$ 0.110 χ^2 /NDF:124120.6/1

Left: 193.914 $\pm$ 0.072 χ^2 /NDF: 214161.1/4

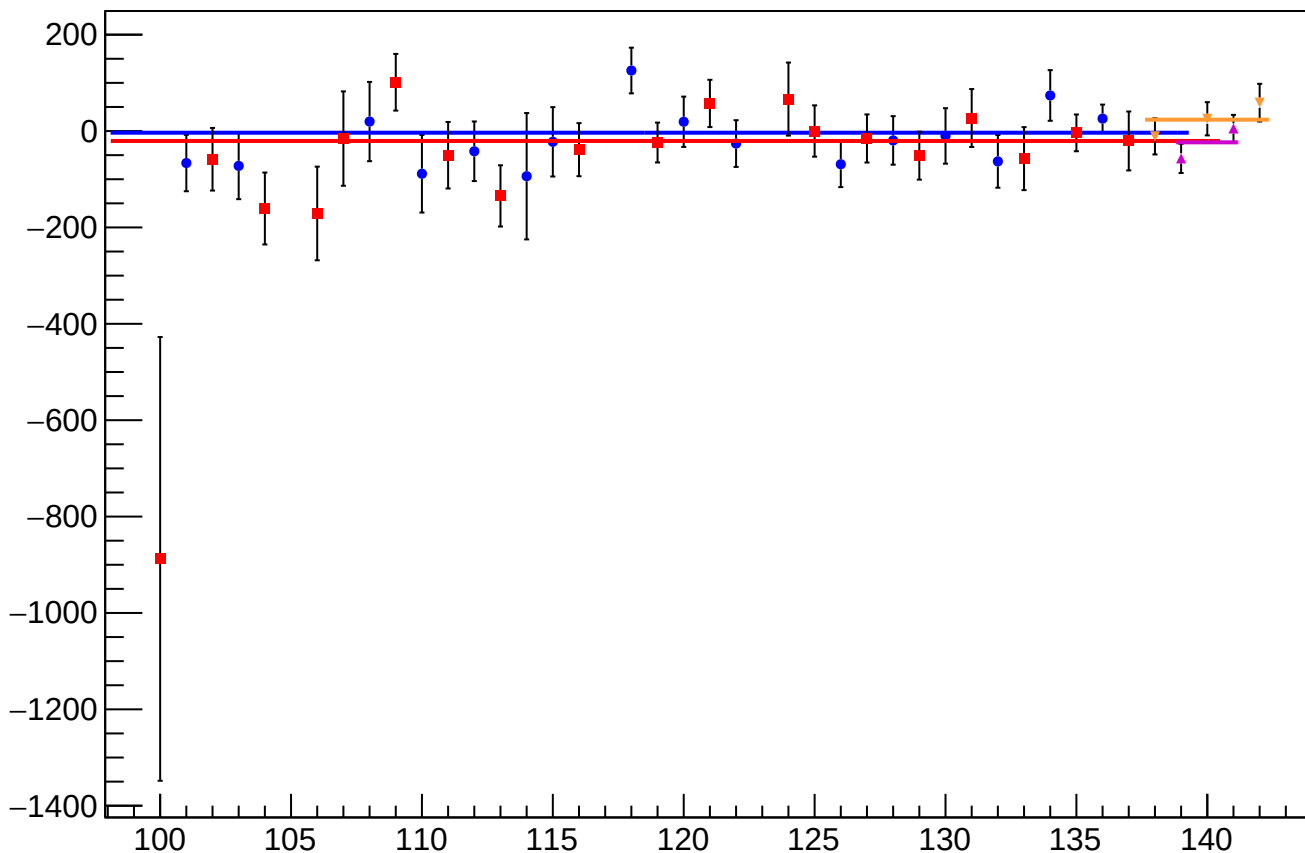
Right: 371.518 $\pm$ 0.071 χ^2 /NDF: 2080575.8/34

In: 289.112 $\pm$ 0.074 χ^2 /NDF:2380447.7/17

Out: 277.924 $\pm$ 0.070 χ^2 /NDF:2982663.0/21

All: 283.193 $\pm$ 0.051 χ^2 /NDF: 5375295.5/39

eigen_dit_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -3.425 ± 13.392 $\chi^2/\text{NDF}: 18.5/15$

Left Out: 23.602 ± 21.304 $\chi^2/\text{NDF}: 1.7/2$

Right Out: -20.569 ± 13.475 $\chi^2/\text{NDF}: 23.1/18$

Left In: -23.399 ± 20.636 $\chi^2/\text{NDF}: 2.3/1$

Left: -0.647 ± 14.823 $\chi^2/\text{NDF}: 6.4/4$

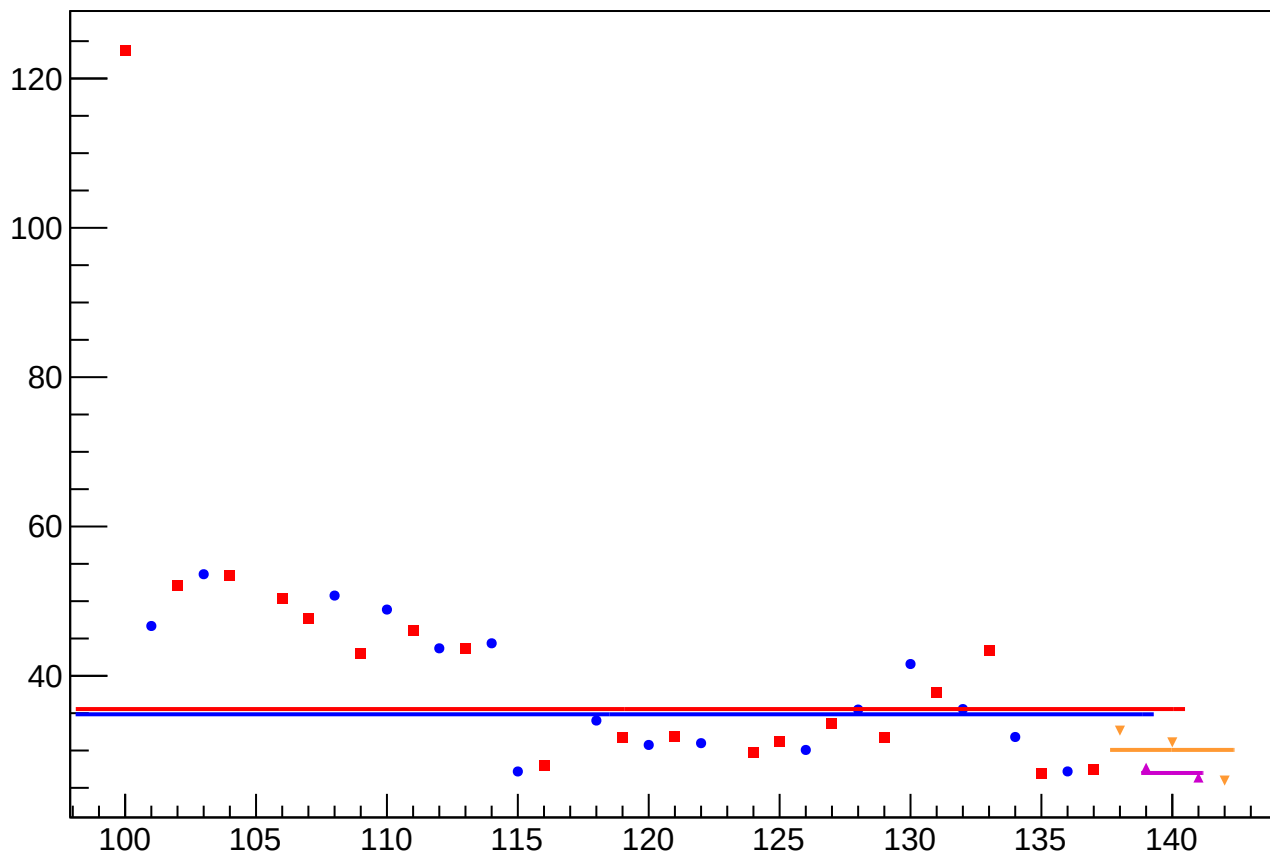
Right: -11.944 ± 9.499 $\chi^2/\text{NDF}: 42.4/34$

In: -9.344 ± 11.234 $\chi^2/\text{NDF}: 21.4/17$

Out: -7.948 ± 11.388 $\chi^2/\text{NDF}: 27.9/21$

All: -8.656 ± 7.998 $\chi^2/\text{NDF}: 49.3/39$

eigen_dit_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 34.850+/-0.009 χ^2/NDF : 658089.6/15

Left Out: 30.081+/-0.015 χ^2/NDF : 33171.9/2

Right Out: 35.552+/-0.010 χ^2/NDF : 779849.4/18

Left In: 26.992+/-0.015 χ^2/NDF : 2000.4/1

Left: 28.487+/-0.010 χ^2/NDF : 56870.0/4

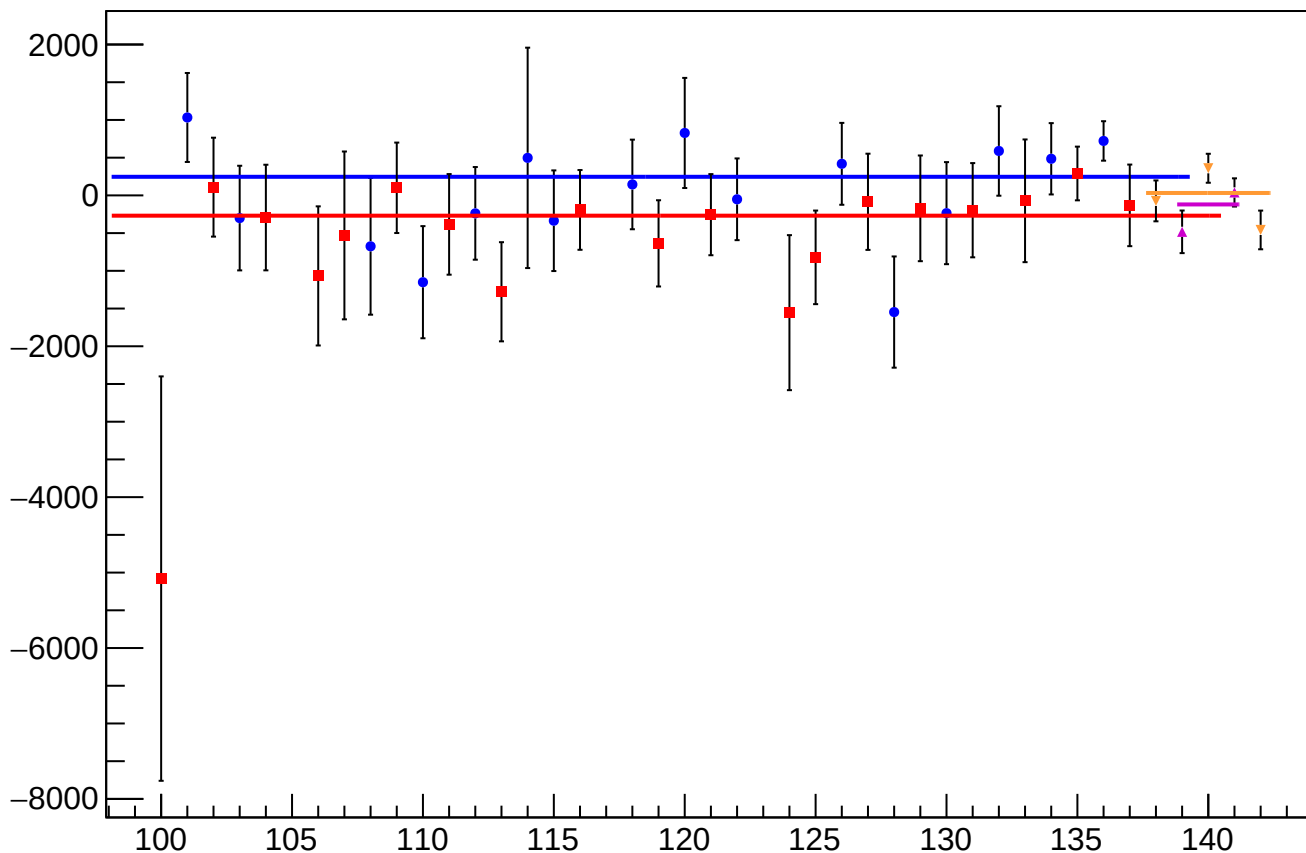
Right: 35.199+/-0.007 χ^2/NDF : 1440673.9/34

In: 32.521+/-0.008 χ^2/NDF : 864143.6/17

Out: 33.989+/-0.008 χ^2/NDF : 907236.7/21

All: 33.245+/-0.006 χ^2/NDF : 1788222.3/39

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 246.505 $\pm$ 140.274 χ^2 /NDF: 19.8/15

Left Out: 32.107 $\pm$ 133.671 χ^2 /NDF:6.7/2

Right Out: -268.913 $\pm$ 145.295 χ^2 /NDF: 12.6/18

Left In: -119.906 $\pm$ 155.841 χ^2 /NDF:2.4/1

Left: -32.327 $\pm$ 101.461 χ^2 /NDF: 9.6/4

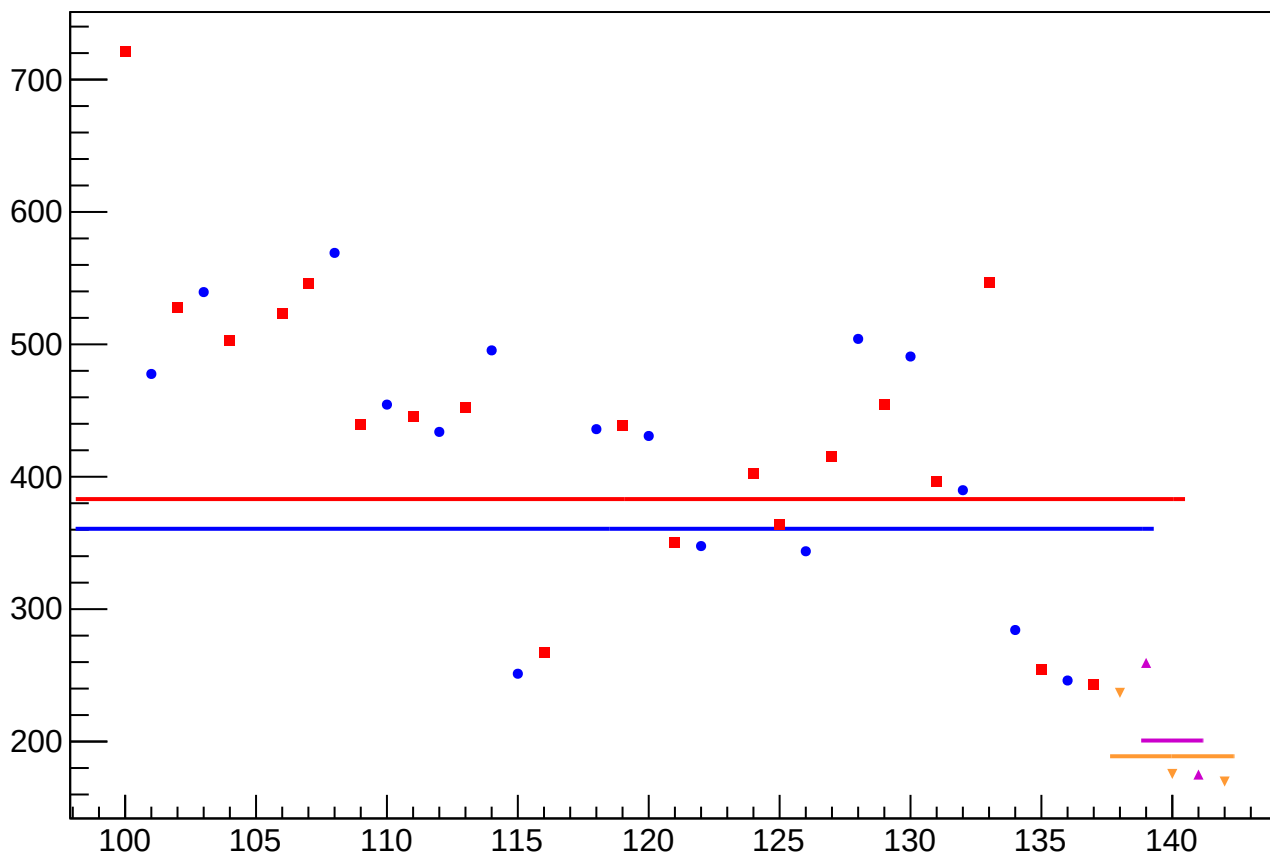
Right: -2.145 $\pm$ 100.917 χ^2 /NDF: 38.9/34

In: 82.508 $\pm$ 104.259 χ^2 /NDF:25.2/17

Out: -105.882 $\pm$ 98.373 χ^2 /NDF:21.7/21

All: -17.155 $\pm$ 71.551 χ^2 /NDF: 48.6/39

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 360.691 $\pm$ 0.099 χ^2 /NDF: 1092752.5/15

Left Out: 188.875 $\pm$ 0.095 χ^2 /NDF:83330.2/2

Right Out: 383.131 $\pm$ 0.103 χ^2 /NDF: 963120.8/18

Left In: 200.762 $\pm$ 0.110 χ^2 /NDF:124118.1/1

Left: 193.914 $\pm$ 0.072 χ^2 /NDF: 214152.7/4

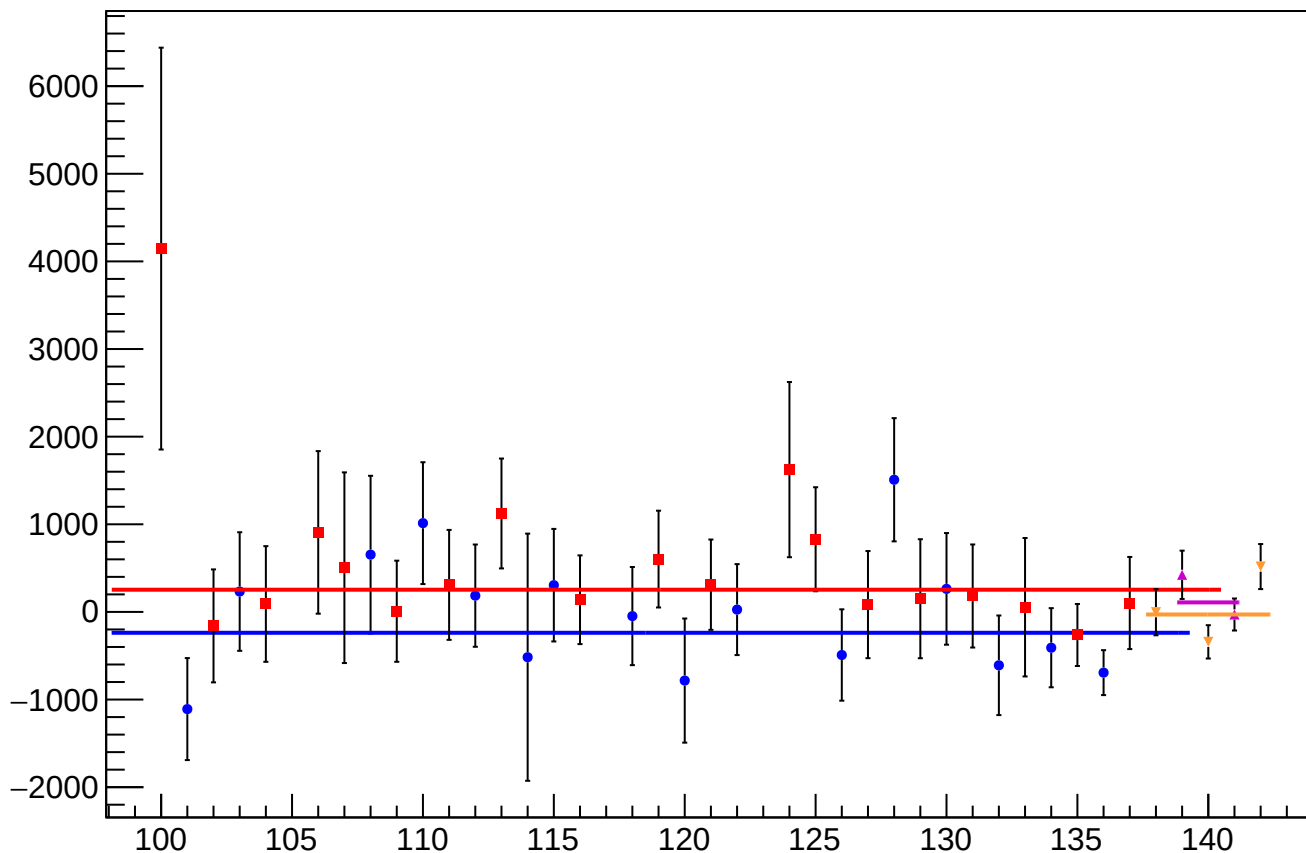
Right: 371.517 $\pm$ 0.071 χ^2 /NDF: 2080563.7/34

In: 289.111 $\pm$ 0.074 χ^2 /NDF:2380446.6/17

Out: 277.923 $\pm$ 0.070 χ^2 /NDF:2982657.5/21

All: 283.192 $\pm$ 0.051 χ^2 /NDF: 5375288.4/39

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -238.043 ± 135.349 $\chi^2/\text{NDF}: 19.9/15$

Left Out: -29.229 ± 132.196 $\chi^2/\text{NDF}: 7.2/2$

Right Out: 253.445 ± 140.414 $\chi^2/\text{NDF}: 11.7/18$

Left In: 108.610 ± 152.165 $\chi^2/\text{NDF}: 1.9/1$

Left: 30.058 ± 99.796 $\chi^2/\text{NDF}: 9.6/4$

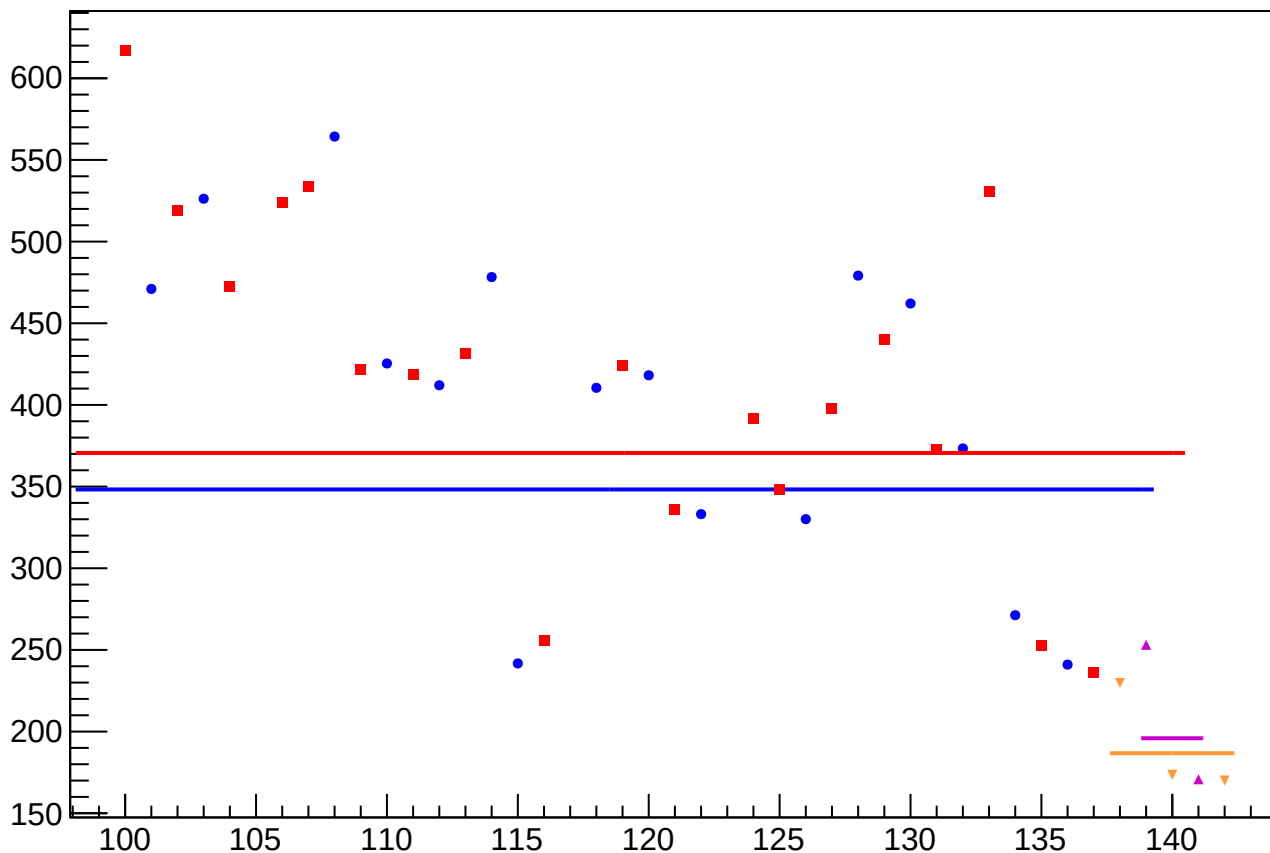
Right: -1.323 ± 97.448 $\chi^2/\text{NDF}: 38.0/34$

In: -84.923 ± 101.131 $\chi^2/\text{NDF}: 24.7/17$

Out: 103.595 ± 96.251 $\chi^2/\text{NDF}: 21.1/21$

All: 13.994 ± 69.721 $\chi^2/\text{NDF}: 47.6/39$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 348.253+/-0.096 χ^2/NDF : 1056820.3/15

Left Out: 186.752+/-0.093 χ^2/NDF : 71395.6/2

Right Out: 370.585+/-0.099 χ^2/NDF : 917913.5/18

Left In: 195.924+/-0.108 χ^2/NDF : 124124.4/1

Left: 190.697+/-0.071 χ^2/NDF : 199660.9/4

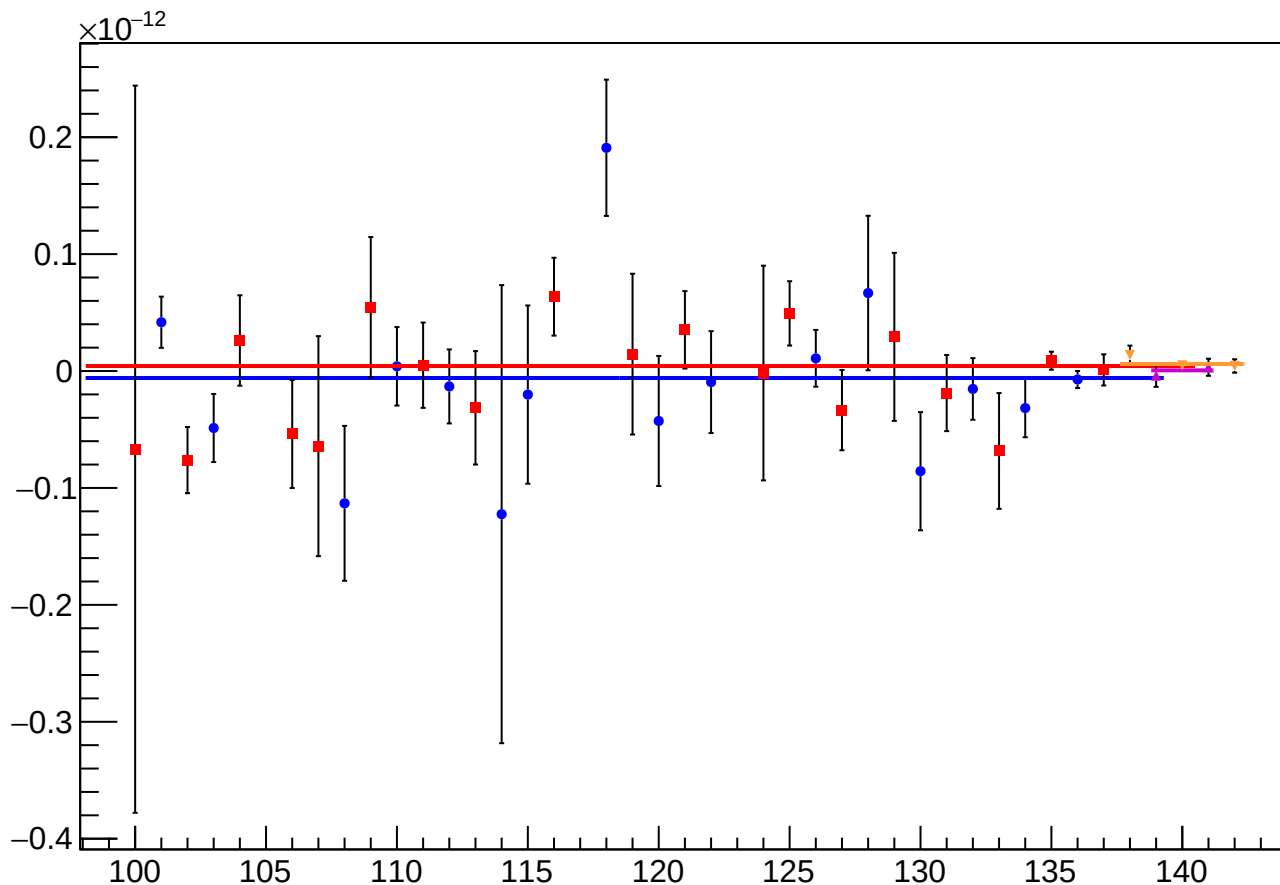
Right: 359.009+/-0.069 χ^2/NDF : 2000959.8/34

In: 280.968+/-0.072 χ^2/NDF : 2299918.1/17

Out: 273.132+/-0.068 χ^2/NDF : 2806615.1/21

All: 276.856+/-0.049 χ^2/NDF : 5112832.1/39

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 27.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :1.1/2

Right Out: 0.000+/-0.000 χ^2/NDF : 23.0/18

Left In: 0.000+/-0.000 χ^2/NDF :0.4/1

Left: 0.000+/-0.000 χ^2/NDF : 2.1/4

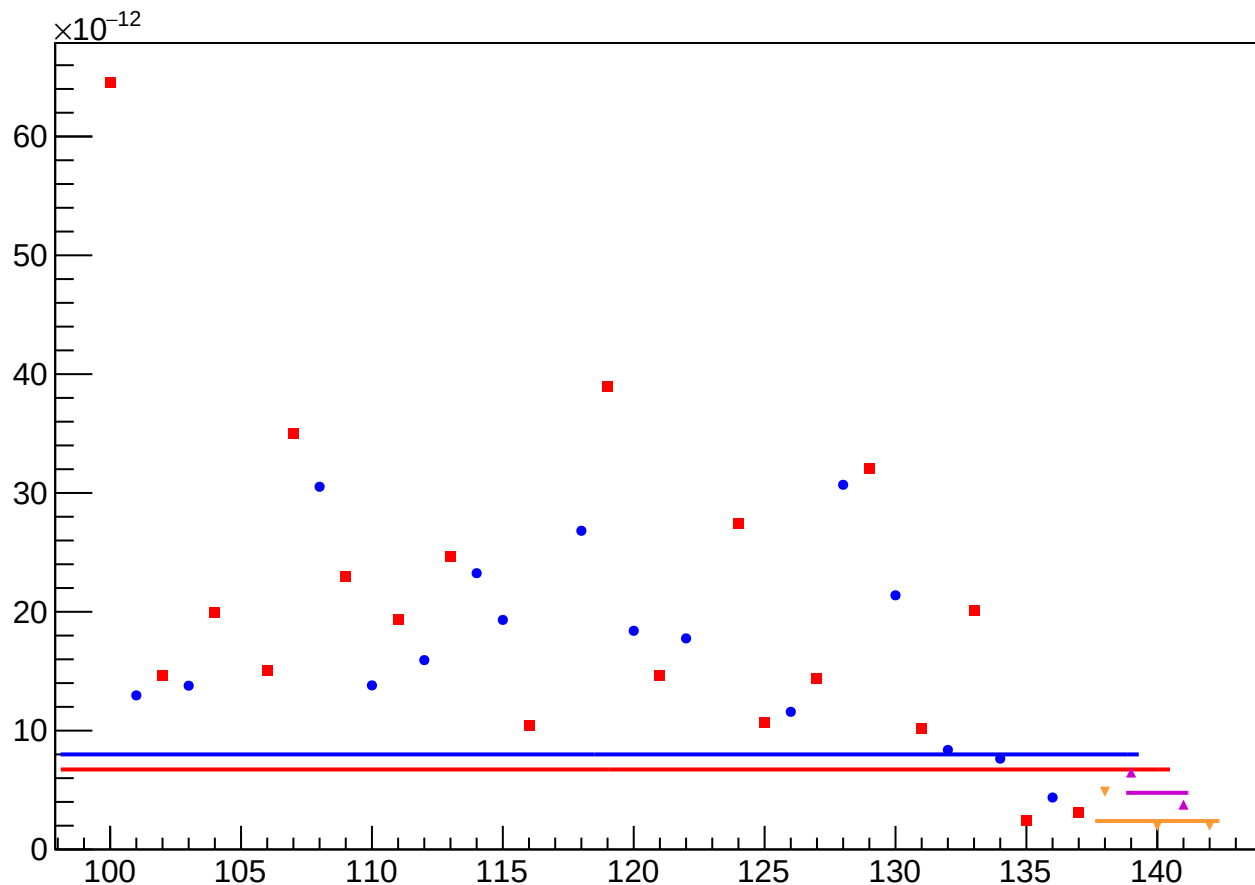
Right: -0.000+/-0.000 χ^2/NDF : 51.9/34

In: -0.000+/-0.000 χ^2/NDF :28.3/17

Out: 0.000+/-0.000 χ^2/NDF :24.1/21

All: 0.000+/-0.000 χ^2/NDF : 55.4/39

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1949755.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :220308.9/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3379574.5/18

Left In: 0.000+/-0.000 χ^2/NDF :100674.8/1

Left: 0.000+/-0.000 χ^2/NDF : 581563.4/4

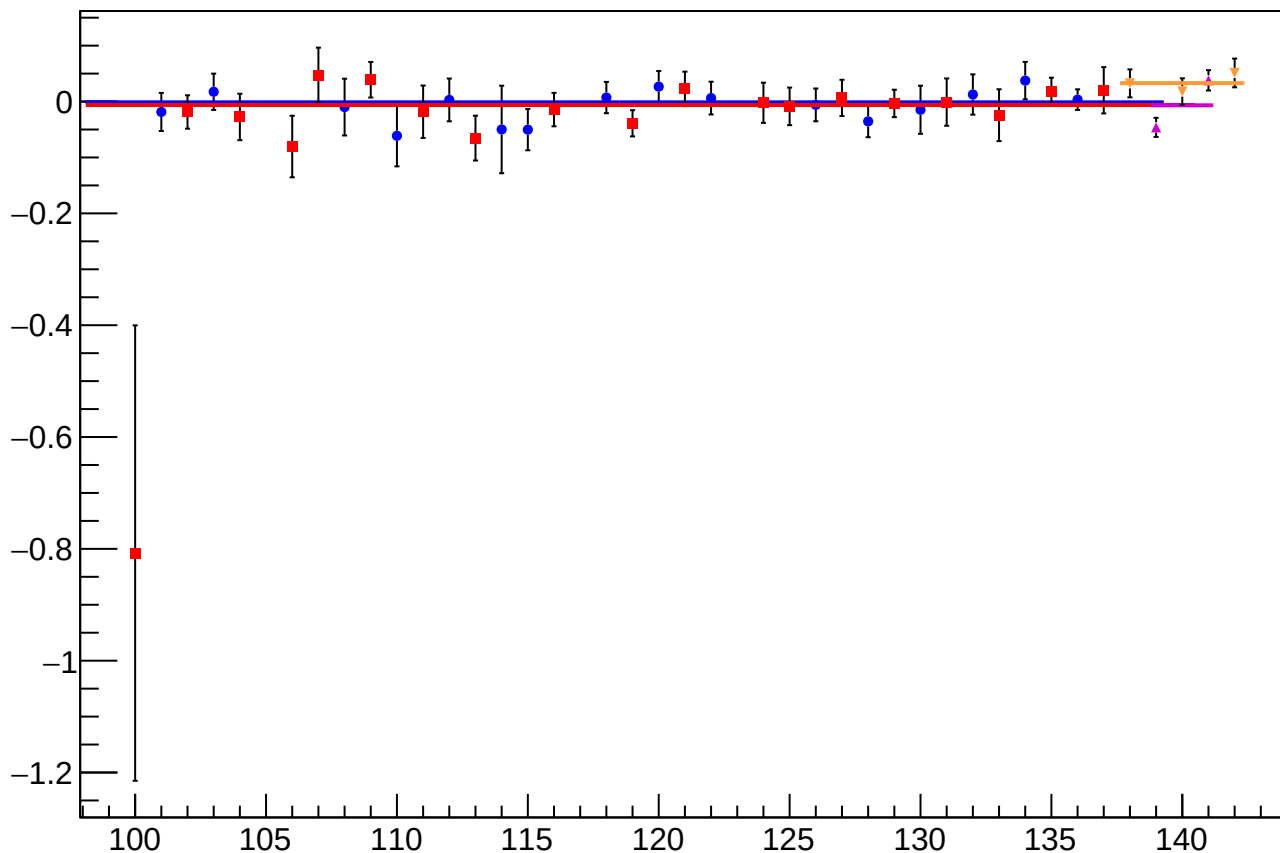
Right: 0.000+/-0.000 χ^2/NDF : 5380161.4/34

In: 0.000+/-0.000 χ^2/NDF :2366777.3/17

Out: 0.000+/-0.000 χ^2/NDF :4533318.4/21

All: 0.000+/-0.000 χ^2/NDF : 7664800.5/39

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.001 ± 0.008 χ^2/NDF : 8.3/15

Left Out: 0.033 ± 0.014 χ^2/NDF : 0.9/2

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.007 ± 0.012 χ^2/NDF : 11.3/1

Left: 0.010 ± 0.009 χ^2/NDF : 16.6/4

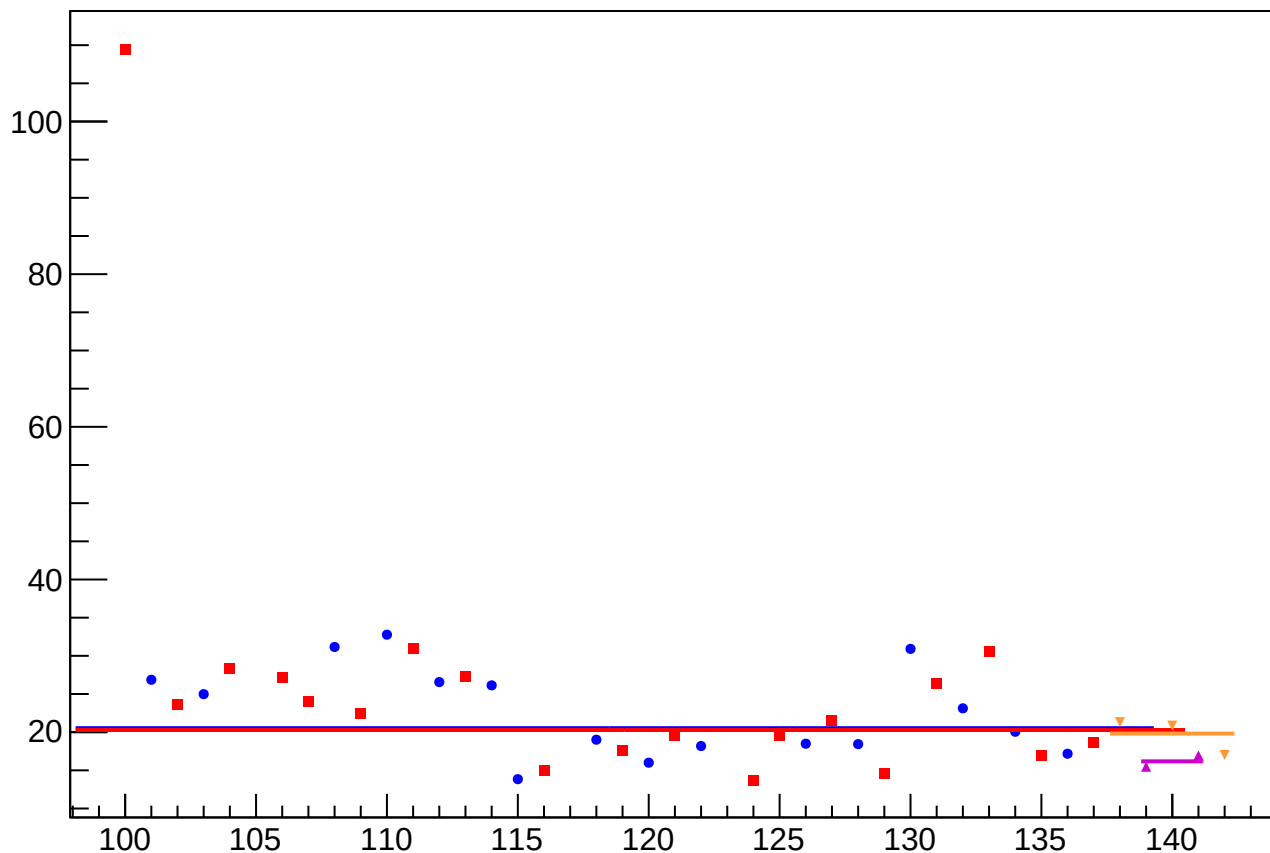
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.003 ± 0.007 χ^2/NDF : 19.7/17

Out: 0.003 ± 0.007 χ^2/NDF : 22.9/21

All: -0.000 ± 0.005 χ^2/NDF : 43.0/39

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.522+/-0.006 χ^2/NDF : 705998.4/15

Left Out: 19.815+/-0.010 χ^2/NDF : 34703.6/2

Right Out: 20.282+/-0.006 χ^2/NDF : 864352.6/18

Left In: 16.174+/-0.009 χ^2/NDF : 7084.9/1

Left: 17.751+/-0.007 χ^2/NDF : 115655.7/4

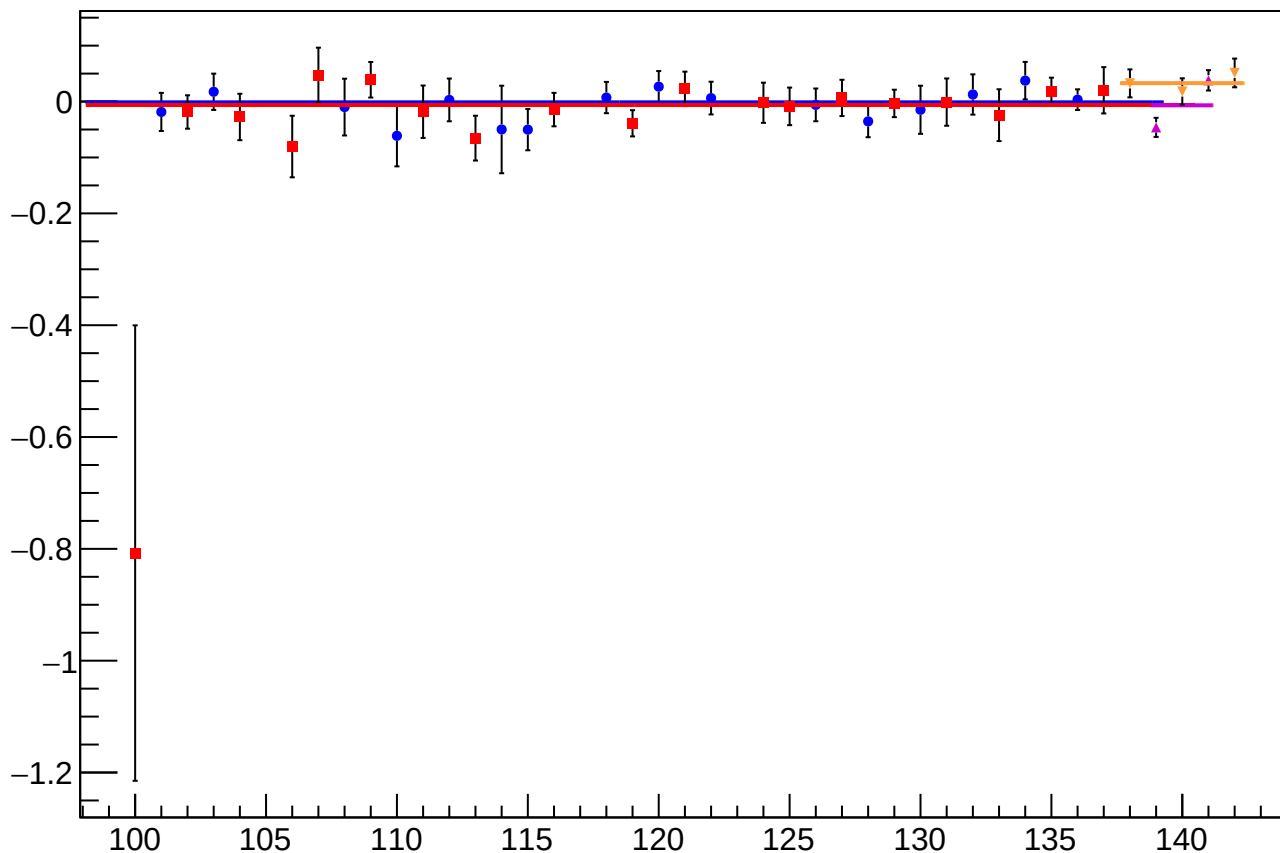
Right: 20.399+/-0.004 χ^2/NDF : 1571258.3/34

In: 19.240+/-0.005 χ^2/NDF : 884631.9/17

Out: 20.172+/-0.005 χ^2/NDF : 900698.2/21

All: 19.697+/-0.003 χ^2/NDF : 1803941.4/39

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.001 ± 0.008 χ^2/NDF : 8.3/15

Left Out: 0.033 ± 0.014 χ^2/NDF : 0.9/2

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.007 ± 0.012 χ^2/NDF : 11.3/1

Left: 0.010 ± 0.009 χ^2/NDF : 16.6/4

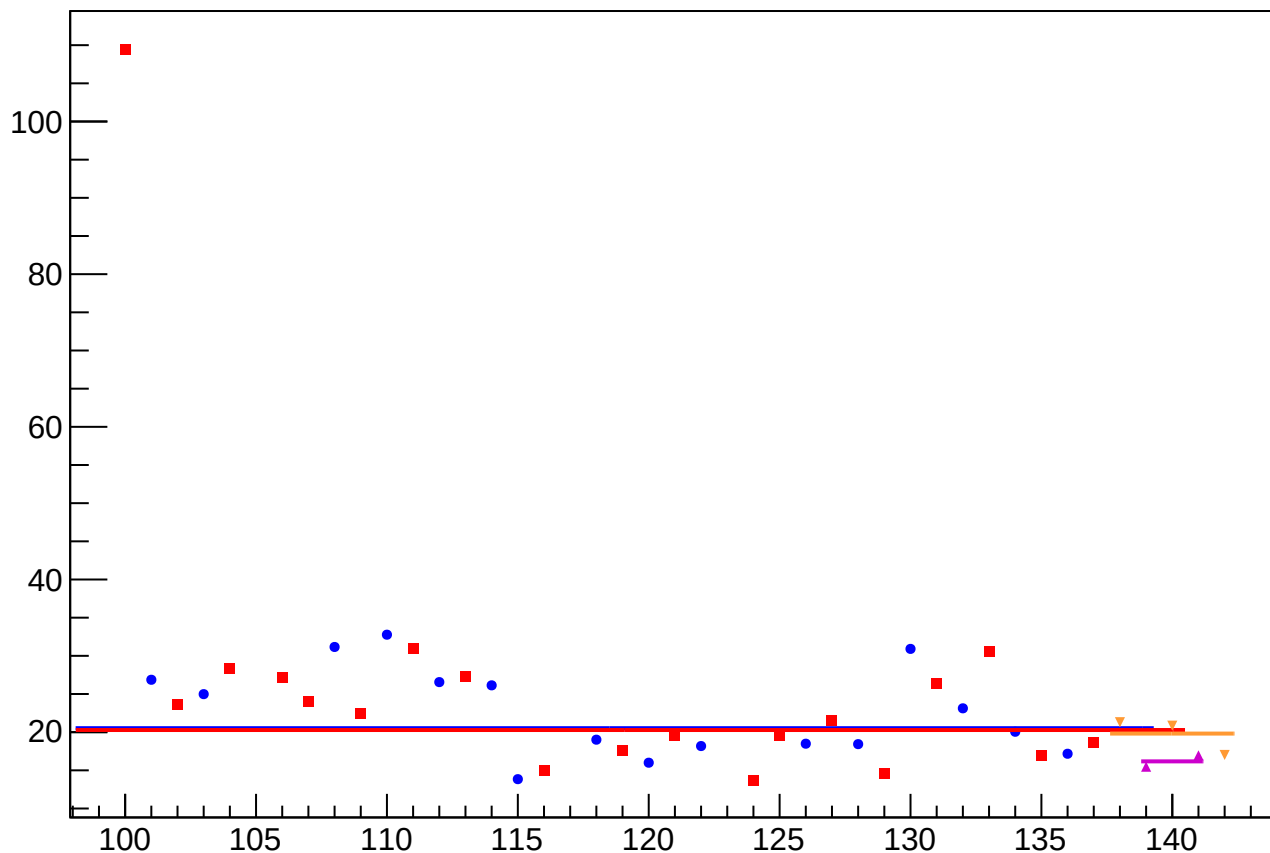
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.003 ± 0.007 χ^2/NDF : 19.7/17

Out: 0.003 ± 0.007 χ^2/NDF : 22.9/21

All: -0.000 ± 0.005 χ^2/NDF : 43.0/39

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.522 $\pm$ 0.006 χ^2 /NDF: 705998.4/15

Left Out: 19.815 $\pm$ 0.010 χ^2 /NDF: 34703.6/2

Right Out: 20.282 $\pm$ 0.006 χ^2 /NDF: 864352.6/18

Left In: 16.174 $\pm$ 0.009 χ^2 /NDF: 7084.9/1

Left: 17.751 $\pm$ 0.007 χ^2 /NDF: 115655.7/4

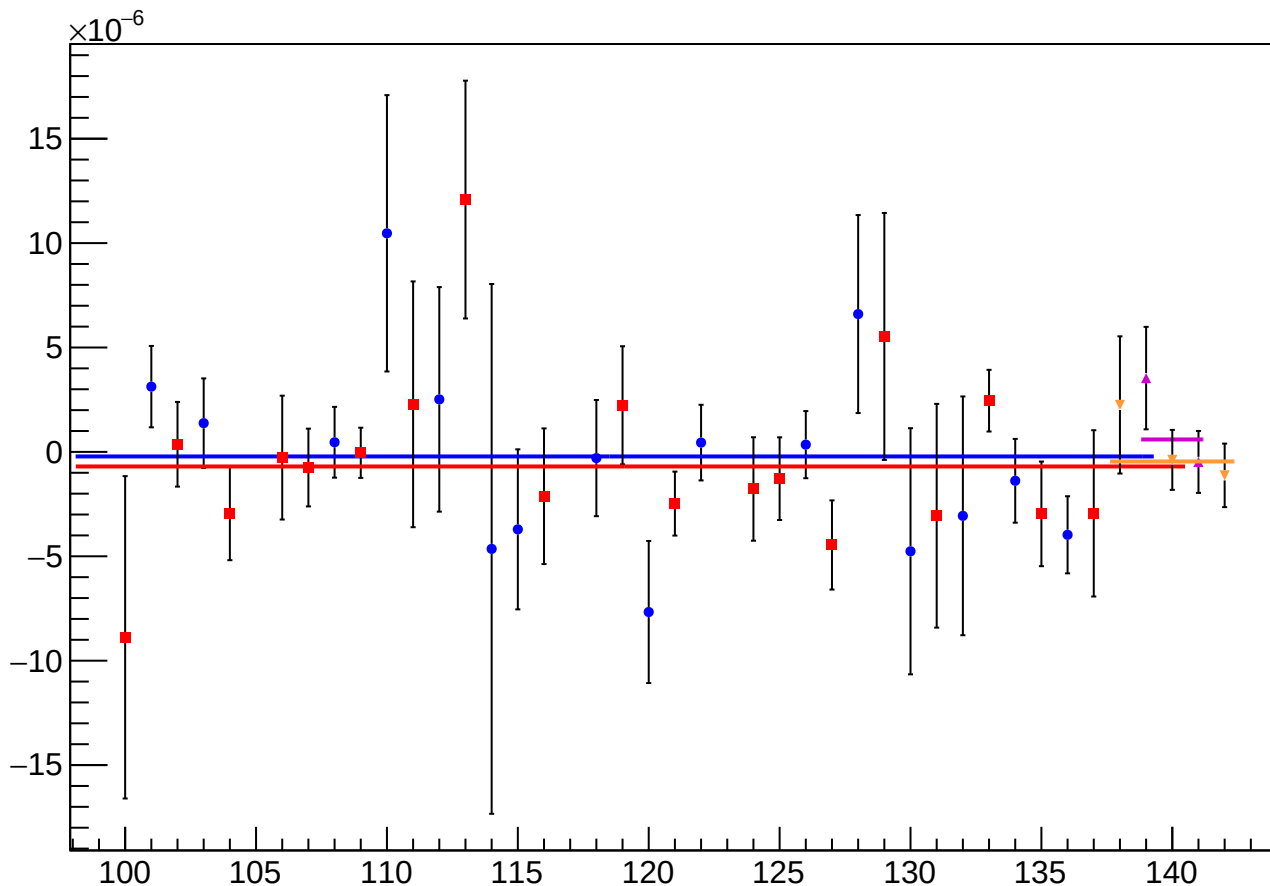
Right: 20.399 $\pm$ 0.004 χ^2 /NDF: 1571258.3/34

In: 19.240 $\pm$ 0.005 χ^2 /NDF: 884631.9/17

Out: 20.172 $\pm$ 0.005 χ^2 /NDF: 900698.2/21

All: 19.697 $\pm$ 0.003 χ^2 /NDF: 1803941.4/39

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 19.9/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 0.9/2

Right Out: -0.000 ± 0.000 χ^2/NDF : 21.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 2.0/1

Left: -0.000 ± 0.000 χ^2/NDF : 3.3/4

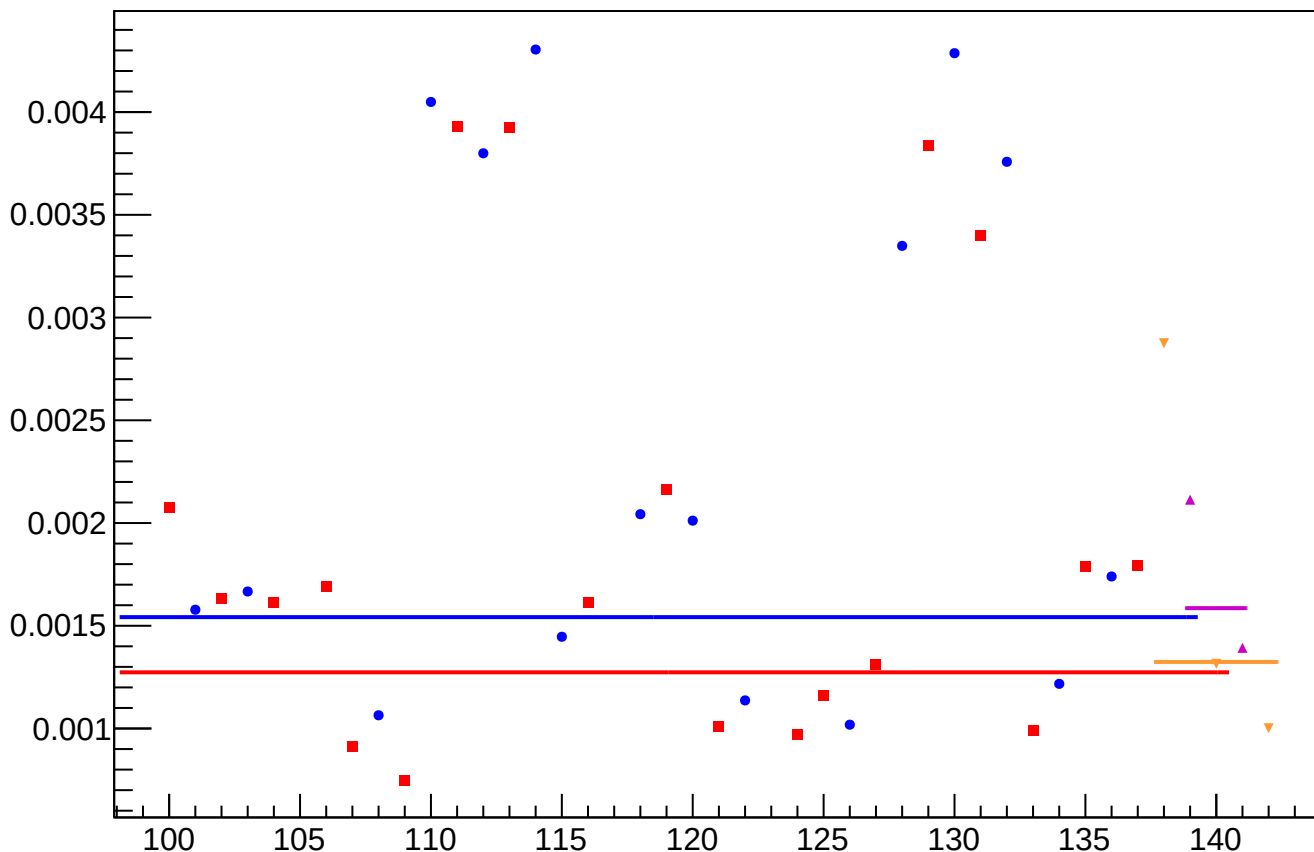
Right: -0.000 ± 0.000 χ^2/NDF : 41.2/34

In: -0.000 ± 0.000 χ^2/NDF : 22.2/17

Out: -0.000 ± 0.000 χ^2/NDF : 21.9/21

All: -0.000 ± 0.000 χ^2/NDF : 44.8/39

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2416805.2/15

Left Out: 0.001+/-0.000 χ^2/NDF :535897.7/2

Right Out: 0.001+/-0.000 χ^2/NDF : 2667436.5/18

Left In: 0.002+/-0.000 χ^2/NDF :126464.5/1

Left: 0.001+/-0.000 χ^2/NDF : 715071.1/4

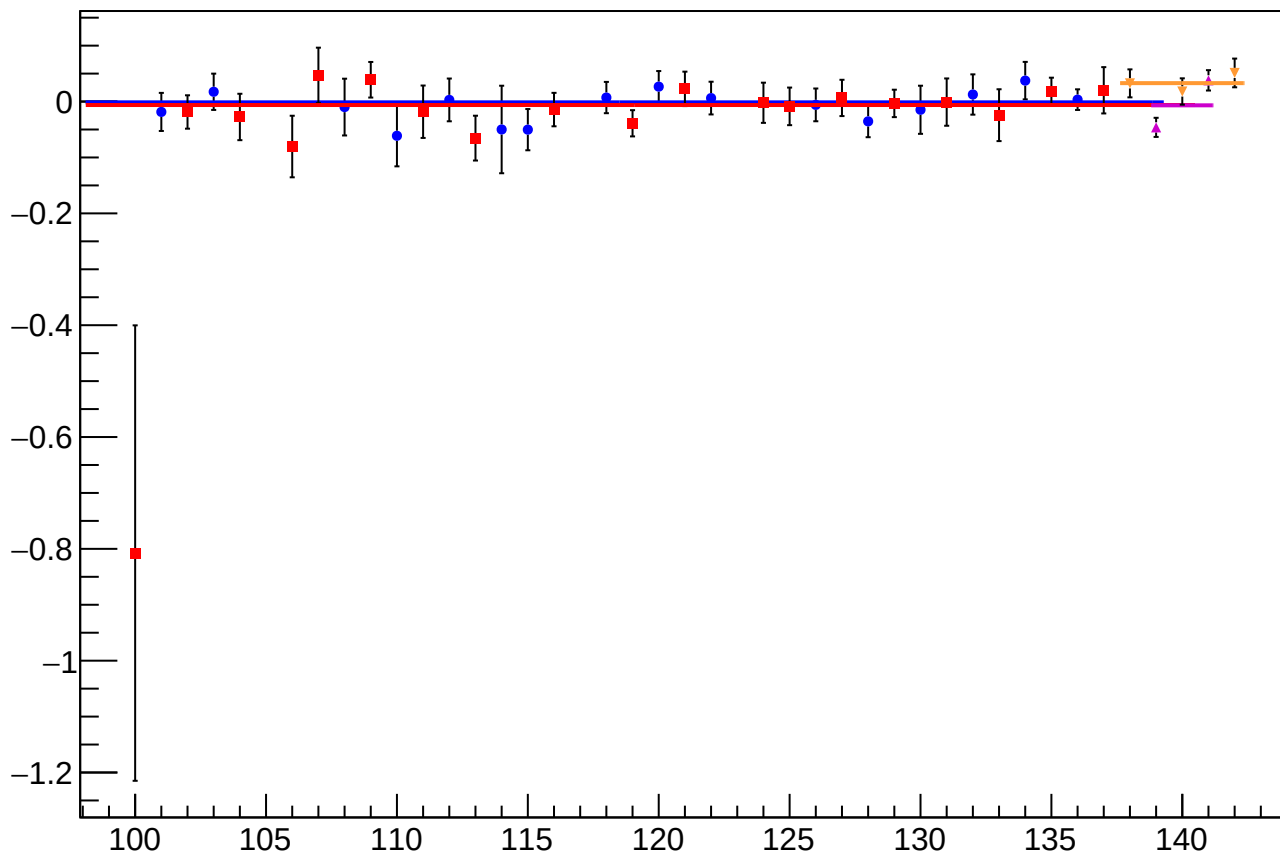
Right: 0.001+/-0.000 χ^2/NDF : 5298926.0/34

In: 0.002+/-0.000 χ^2/NDF :2545170.3/17

Out: 0.001+/-0.000 χ^2/NDF :3207364.2/21

All: 0.001+/-0.000 χ^2/NDF : 6018212.0/39

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.001 ± 0.008 χ^2/NDF : 8.3/15

Left Out: 0.033 ± 0.014 χ^2/NDF : 0.9/2

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.007 ± 0.012 χ^2/NDF : 11.3/1

Left: 0.010 ± 0.009 χ^2/NDF : 16.6/4

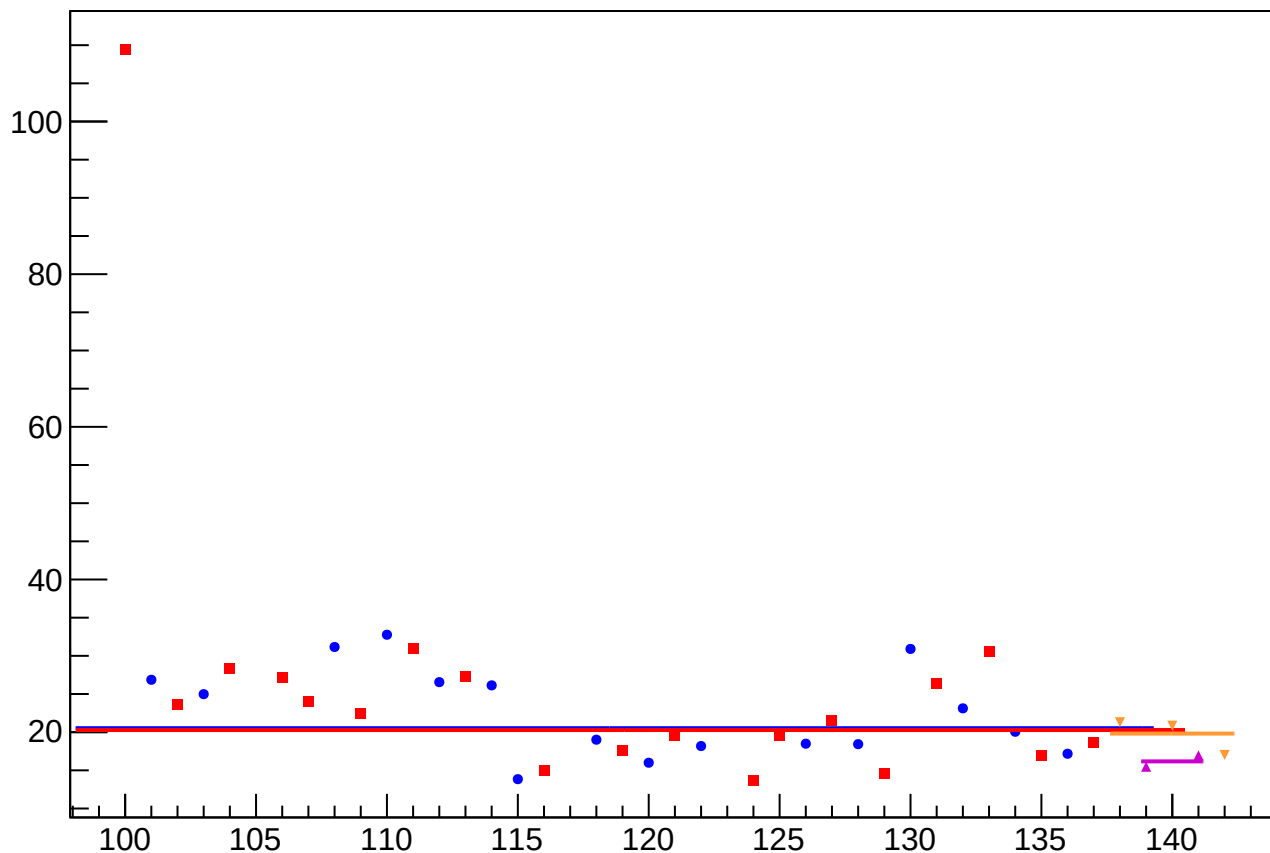
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.003 ± 0.007 χ^2/NDF : 19.7/17

Out: 0.003 ± 0.007 χ^2/NDF : 22.9/21

All: -0.000 ± 0.005 χ^2/NDF : 43.0/39

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.521+/-0.006 χ^2/NDF : 705877.0/15

Left Out: 19.814+/-0.010 χ^2/NDF : 34693.1/2

Right Out: 20.281+/-0.006 χ^2/NDF : 864361.2/18

Left In: 16.174+/-0.009 χ^2/NDF : 7095.8/1

Left: 17.750+/-0.007 χ^2/NDF : 115671.7/4

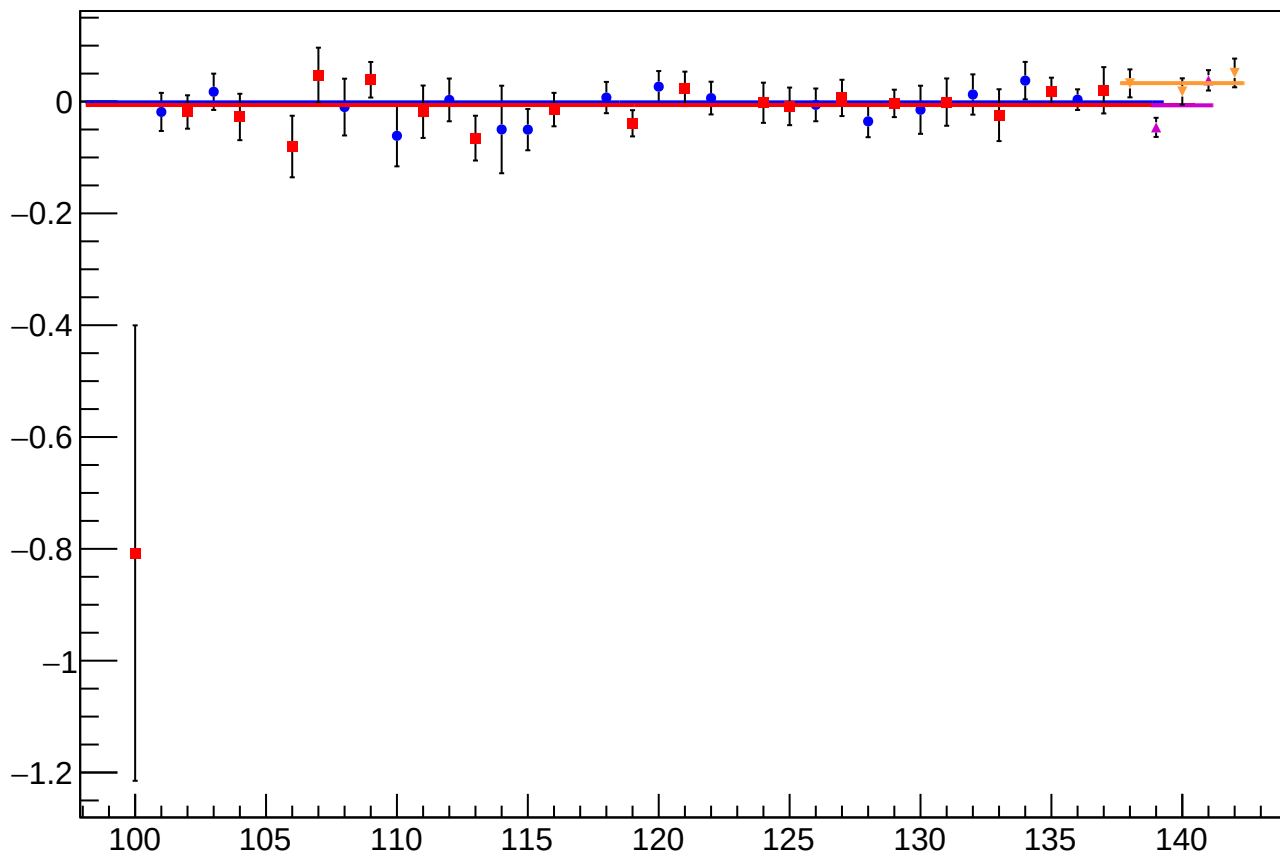
Right: 20.398+/-0.004 χ^2/NDF : 1571146.6/34

In: 19.239+/-0.005 χ^2/NDF : 884530.6/17

Out: 20.172+/-0.005 χ^2/NDF : 900693.1/21

All: 19.697+/-0.003 χ^2/NDF : 1803834.9/39

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.001 ± 0.008 χ^2/NDF : 8.3/15

Left Out: 0.033 ± 0.014 χ^2/NDF : 0.9/2

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.007 ± 0.012 χ^2/NDF : 11.3/1

Left: 0.010 ± 0.009 χ^2/NDF : 16.6/4

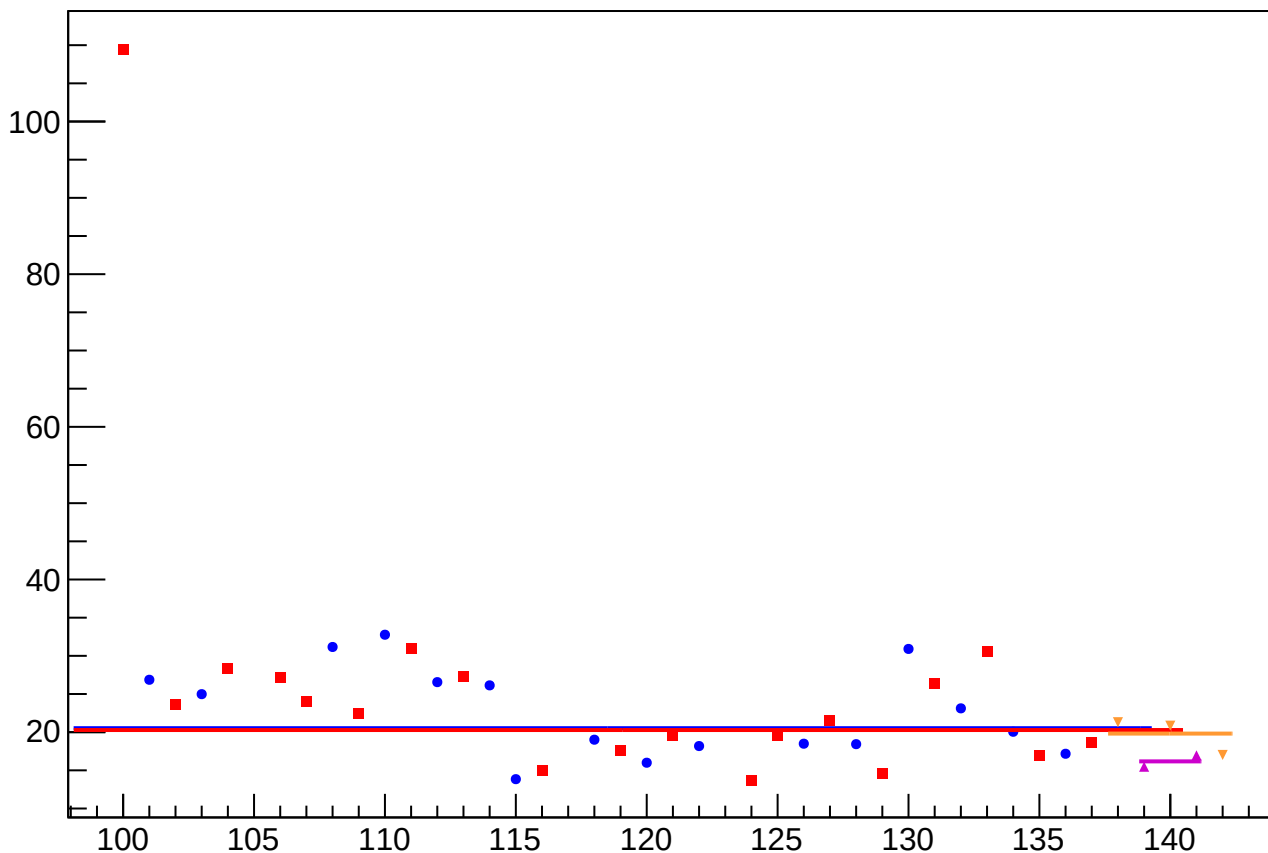
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.003 ± 0.007 χ^2/NDF : 19.7/17

Out: 0.003 ± 0.007 χ^2/NDF : 22.9/21

All: -0.000 ± 0.005 χ^2/NDF : 43.0/39

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.521+/-0.006 χ^2/NDF : 705877.0/15

Left Out: 19.814+/-0.010 χ^2/NDF : 34693.1/2

Right Out: 20.281+/-0.006 χ^2/NDF : 864361.2/18

Left In: 16.174+/-0.009 χ^2/NDF : 7095.8/1

Left: 17.750+/-0.007 χ^2/NDF : 115671.7/4

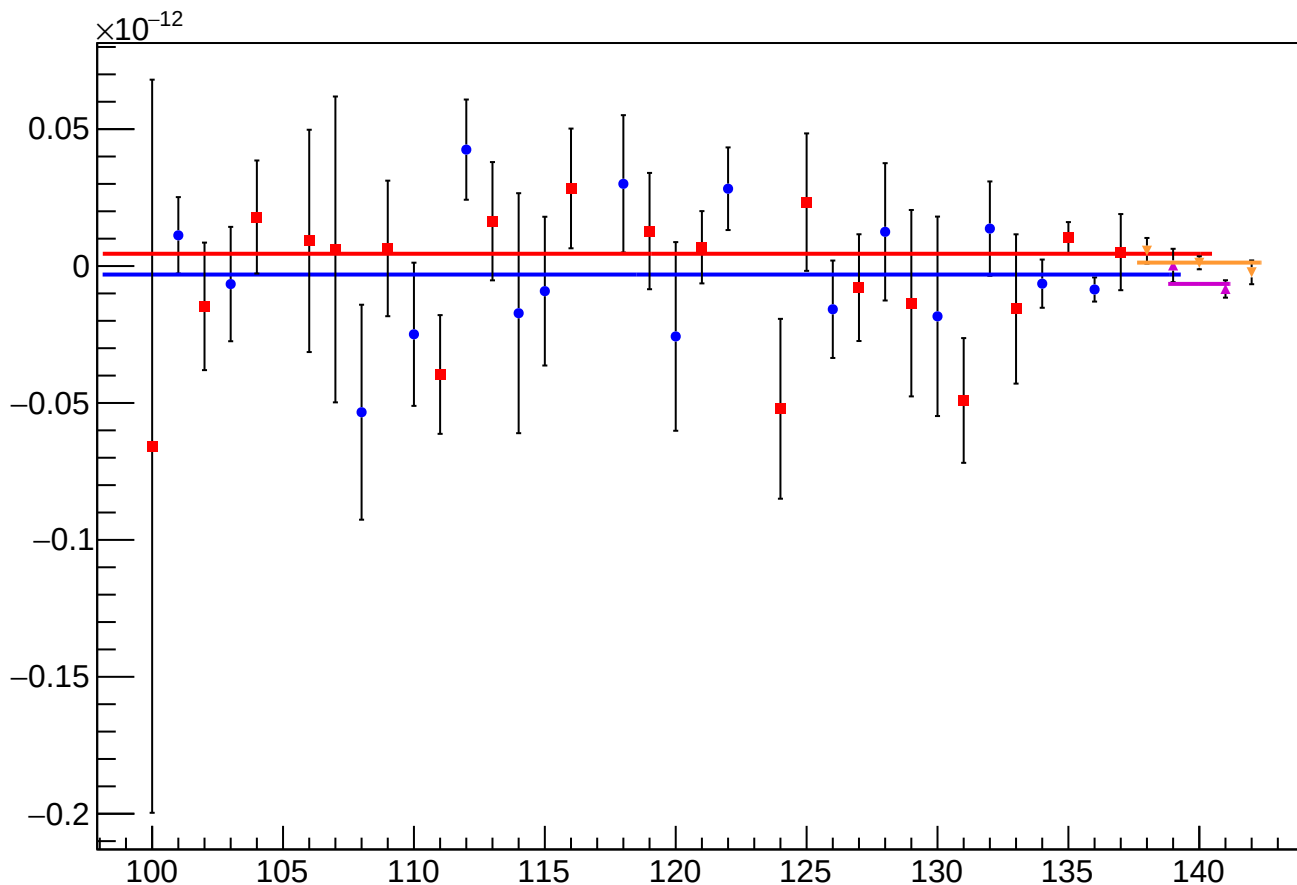
Right: 20.398+/-0.004 χ^2/NDF : 1571146.6/34

In: 19.239+/-0.005 χ^2/NDF : 884530.6/17

Out: 20.172+/-0.005 χ^2/NDF : 900693.1/21

All: 19.697+/-0.003 χ^2/NDF : 1803834.9/39

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 20.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1.5/2

Right Out: 0.000+/-0.000 χ^2/NDF : 18.6/18

Left In: -0.000+/-0.000 χ^2/NDF : 1.6/1

Left: -0.000+/-0.000 χ^2/NDF : 8.3/4

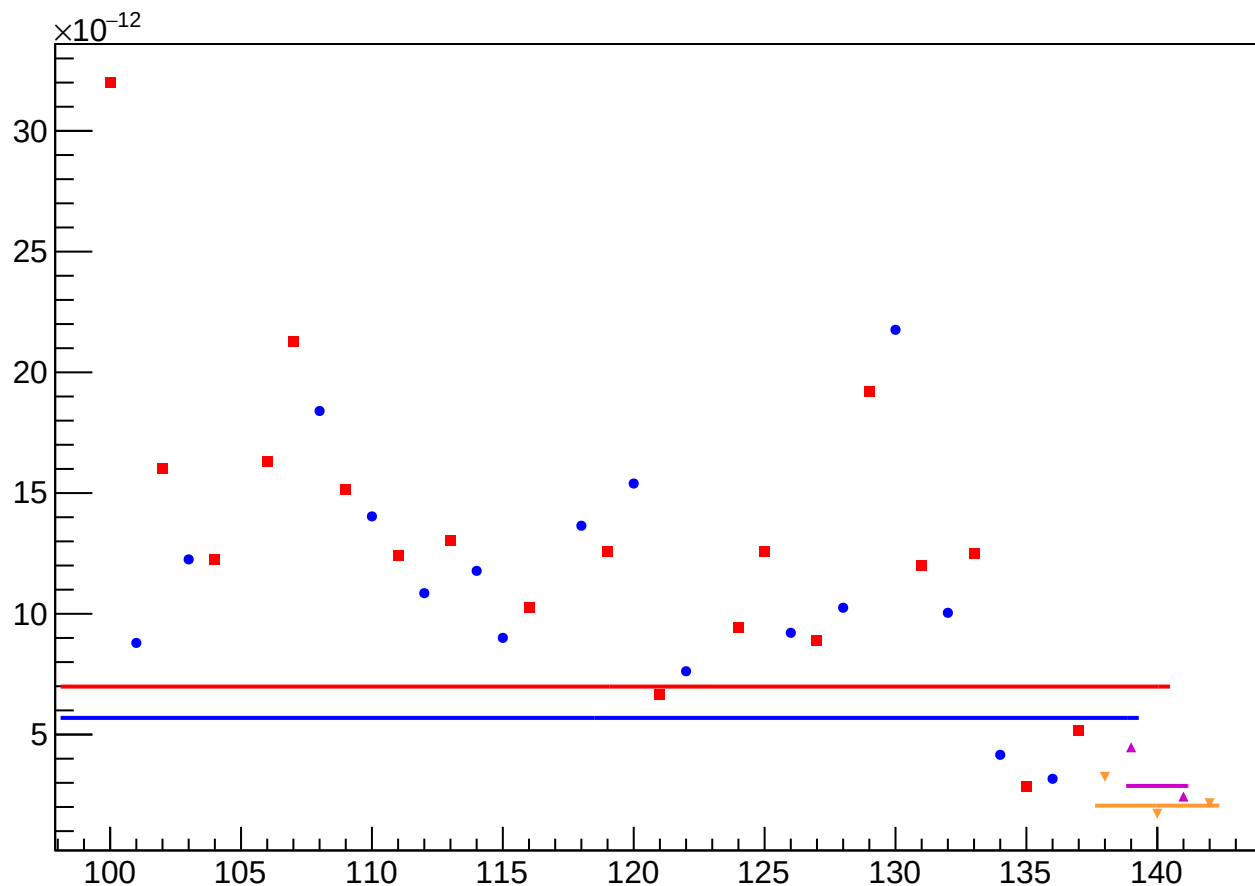
Right: 0.000+/-0.000 χ^2/NDF : 40.8/34

In: -0.000+/-0.000 χ^2/NDF : 22.2/17

Out: 0.000+/-0.000 χ^2/NDF : 20.7/21

All: -0.000+/-0.000 χ^2/NDF : 49.3/39

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2705902.9/15

Left Out: 0.000+/-0.000 χ^2/NDF :171538.4/2

Right Out: 0.000+/-0.000 χ^2/NDF : 3108073.7/18

Left In: 0.000+/-0.000 χ^2/NDF :177055.9/1

Left: 0.000+/-0.000 χ^2/NDF : 463828.1/4

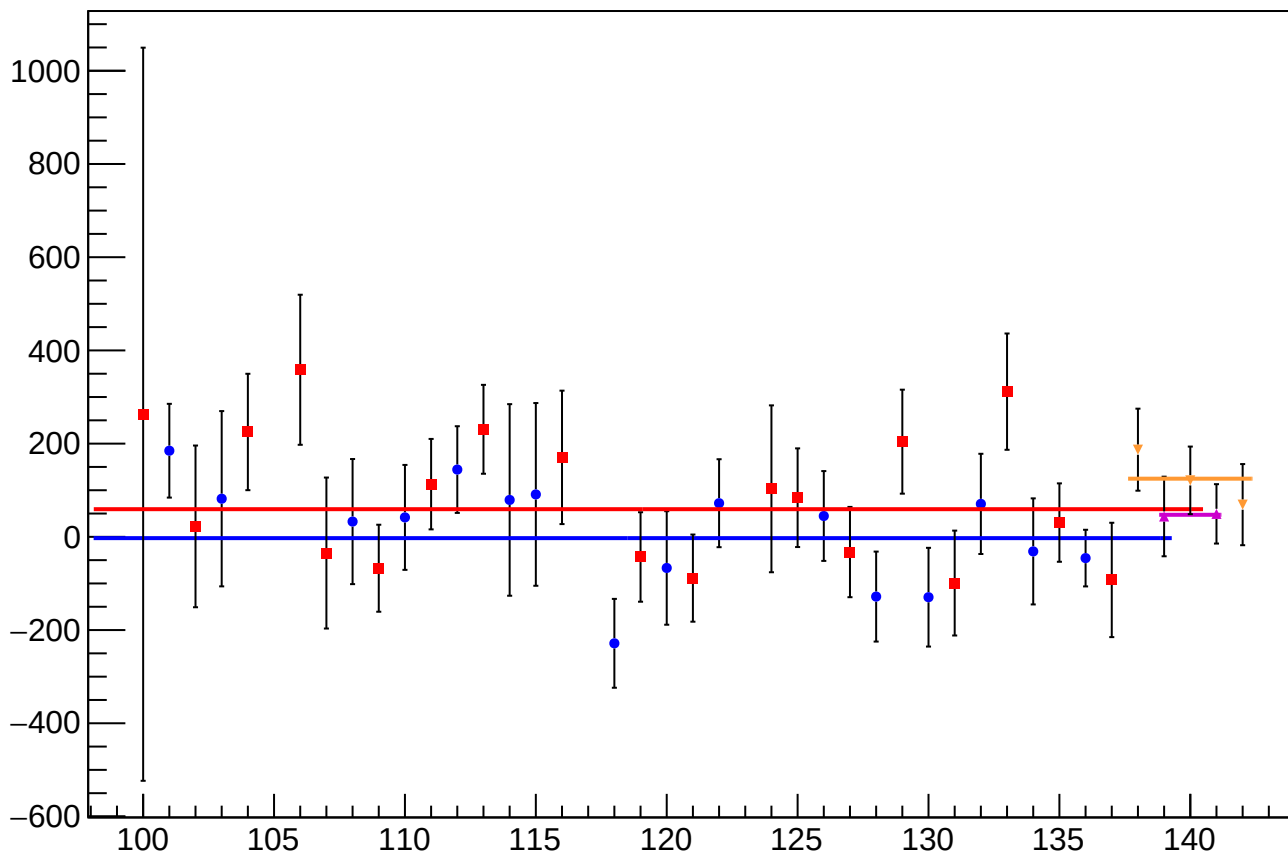
Right: 0.000+/-0.000 χ^2/NDF : 5945633.6/34

In: 0.000+/-0.000 χ^2/NDF :3738861.7/17

Out: 0.000+/-0.000 χ^2/NDF :5901029.5/21

All: 0.000+/-0.000 χ^2/NDF : 9943801.6/39

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -2.766 ± 26.213 $\chi^2/\text{NDF}: 17.7/15$

Left Out: 124.795 ± 47.071 $\chi^2/\text{NDF}: 0.9/2$

Right Out: 59.349 ± 26.382 $\chi^2/\text{NDF}: 25.7/18$

Left In: 47.304 ± 51.067 $\chi^2/\text{NDF}: 0.0/1$

Left: 89.200 ± 34.611 $\chi^2/\text{NDF}: 2.2/4$

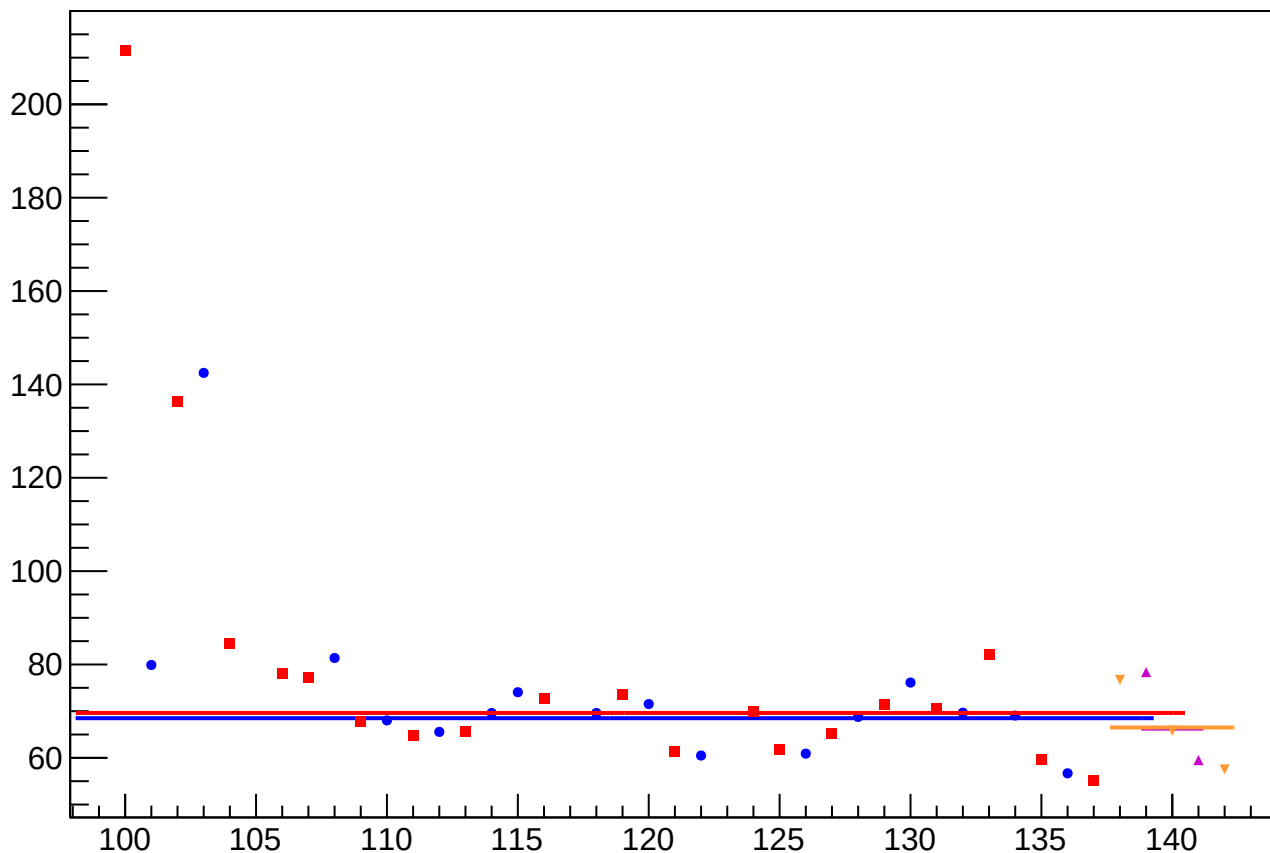
Right: 28.091 ± 18.595 $\chi^2/\text{NDF}: 46.2/34$

In: 7.675 ± 23.320 $\chi^2/\text{NDF}: 18.5/17$

Out: 74.994 ± 23.014 $\chi^2/\text{NDF}: 28.1/21$

All: 41.779 ± 16.381 $\chi^2/\text{NDF}: 50.8/39$

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 68.499+/-0.019 χ^2/NDF : 471865.0/15

Left Out: 66.510+/-0.033 χ^2/NDF : 48390.7/2

Right Out: 69.620+/-0.019 χ^2/NDF : 520403.9/18

Left In: 66.261+/-0.036 χ^2/NDF : 62569.9/1

Left: 66.396+/-0.024 χ^2/NDF : 110986.4/4

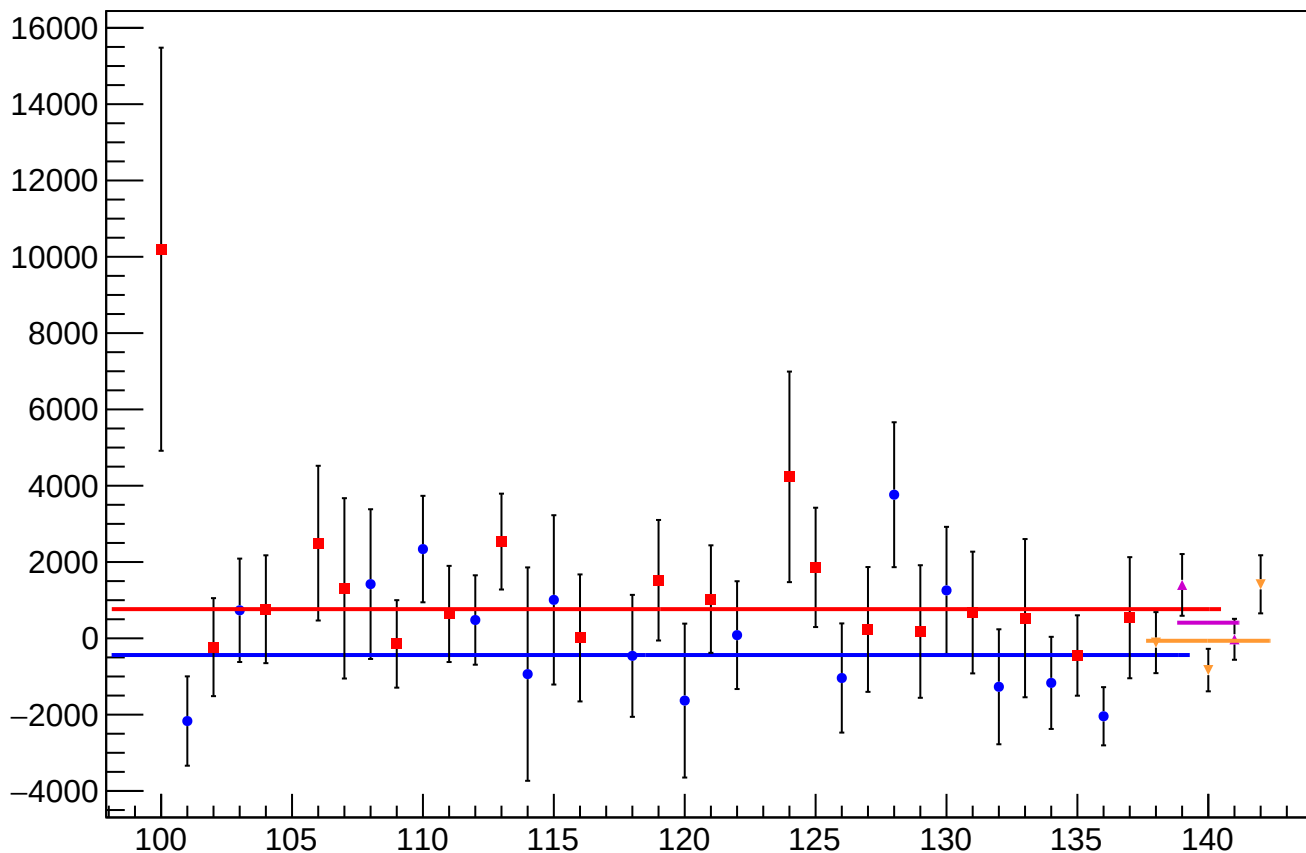
Right: 69.056+/-0.013 χ^2/NDF : 994086.4/34

In: 68.032+/-0.016 χ^2/NDF : 537473.6/17

Out: 68.876+/-0.016 χ^2/NDF : 575435.1/21

All: 68.460+/-0.012 χ^2/NDF : 1114237.3/39

asym_sam_12345678_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -437.444+/-348.880 χ^2/NDF : 20.6/15

Left Out: -64.099+/-391.901 χ^2/NDF :5.7/2

Right Out: 765.341+/-353.052 χ^2/NDF : 11.3/18

Left In: 410.028+/-447.093 χ^2/NDF :2.2/1

Left: 141.909+/-294.708 χ^2/NDF : 8.5/4

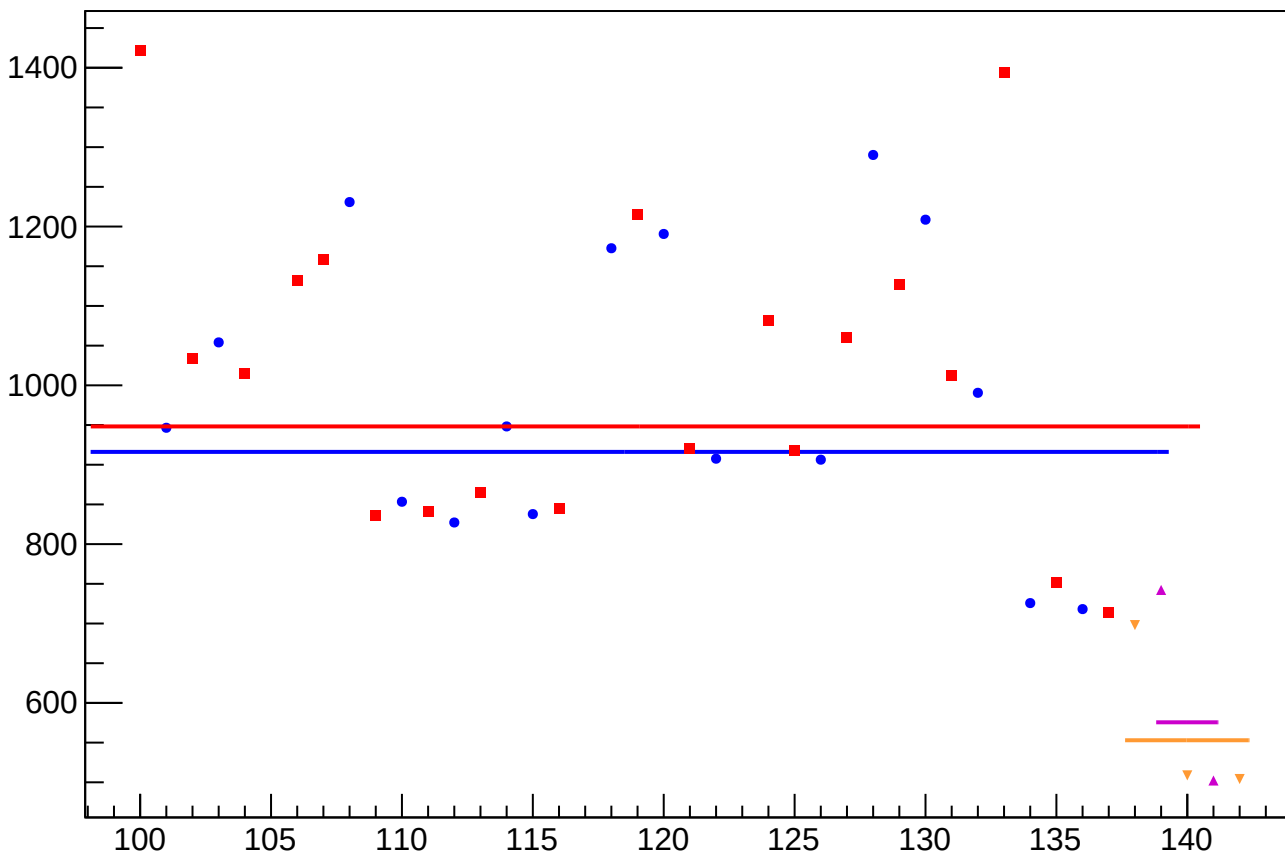
Right: 156.799+/-248.157 χ^2/NDF : 37.7/34

In: -116.708+/-275.048 χ^2/NDF :24.9/17

Out: 393.758+/-262.308 χ^2/NDF :19.5/21

All: 150.621+/-189.824 χ^2/NDF : 46.2/39

asym_sam_12345678_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 916.171+/-0.247 χ^2/NDF : 509126.4/15

Left Out: 552.961+/-0.277 χ^2/NDF : 86628.2/2

Right Out: 948.235+/-0.250 χ^2/NDF : 415192.3/18

Left In: 575.577+/-0.316 χ^2/NDF : 122279.0/1

Left: 562.788+/-0.208 χ^2/NDF : 211801.1/4

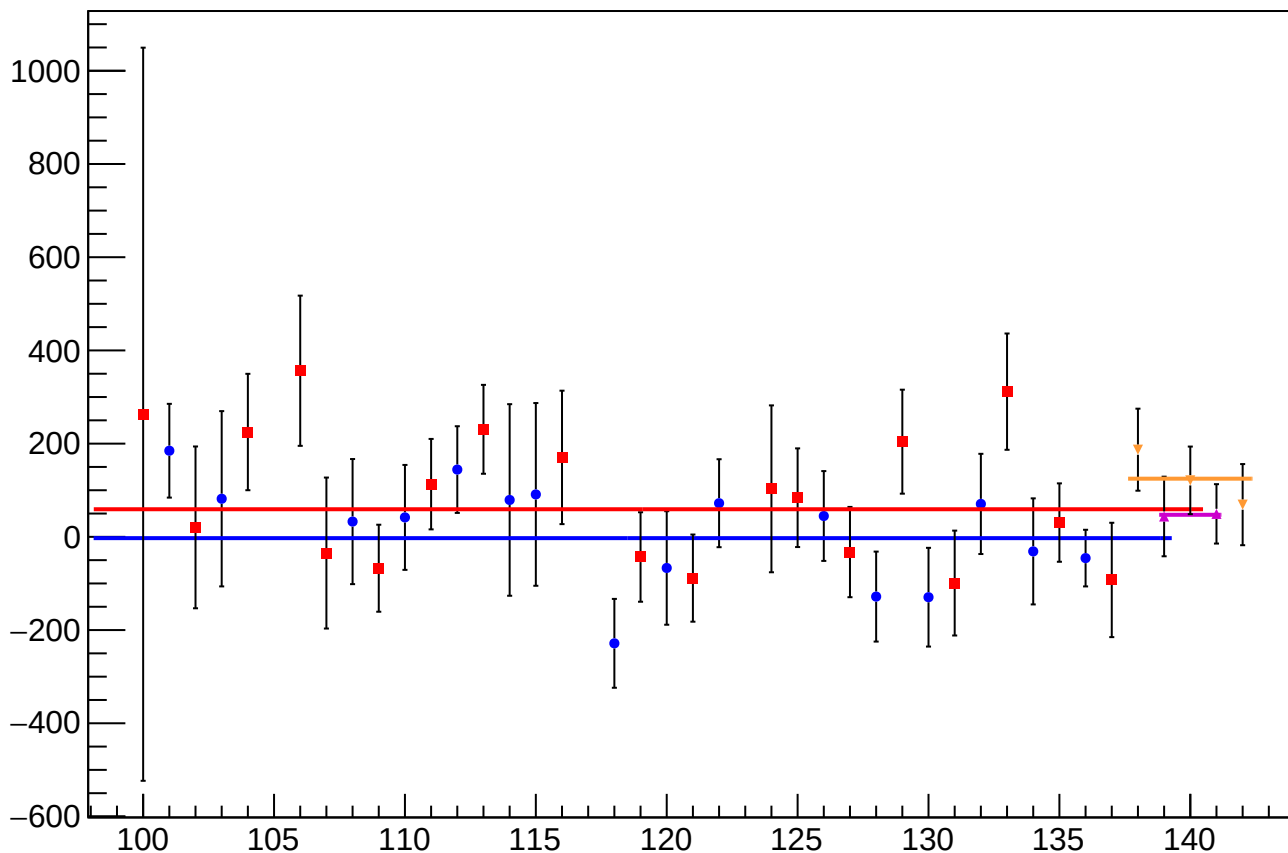
Right: 932.012+/-0.175 χ^2/NDF : 932665.3/34

In: 787.268+/-0.194 χ^2/NDF : 1352805.0/17

Out: 771.156+/-0.185 χ^2/NDF : 1624924.5/21

All: 778.830+/-0.134 χ^2/NDF : 2981323.9/39

cor_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -2.773 ± 26.213 $\chi^2/\text{NDF}: 17.7/15$

Left Out: 124.805 ± 47.071 $\chi^2/\text{NDF}: 0.9/2$

Right Out: 59.226 ± 26.384 $\chi^2/\text{NDF}: 25.7/18$

Left In: 47.312 ± 51.067 $\chi^2/\text{NDF}: 0.0/1$

Left: 89.209 ± 34.611 $\chi^2/\text{NDF}: 2.2/4$

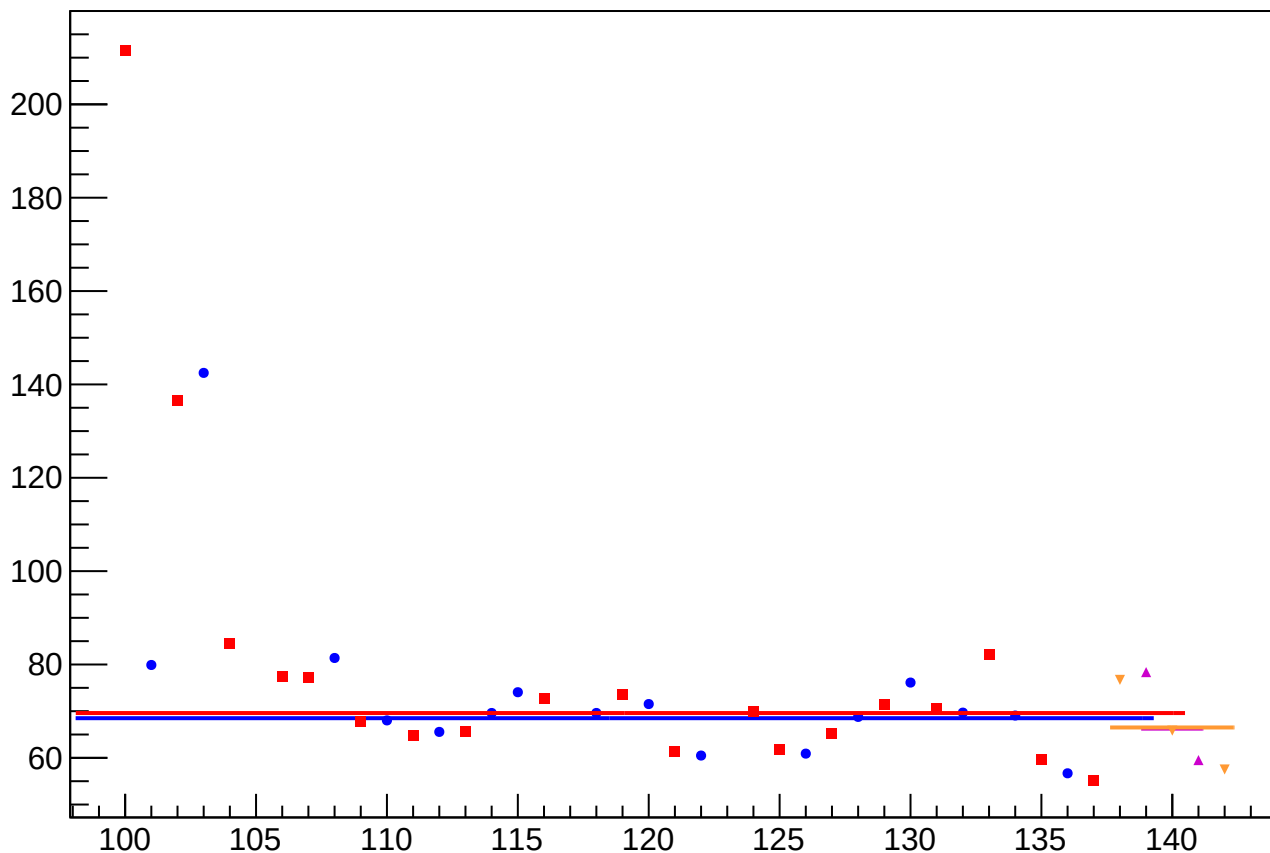
Right: 28.026 ± 18.595 $\chi^2/\text{NDF}: 46.1/34$

In: 7.671 ± 23.320 $\chi^2/\text{NDF}: 18.5/17$

Out: 74.904 ± 23.015 $\chi^2/\text{NDF}: 28.0/21$

All: 41.731 ± 16.381 $\chi^2/\text{NDF}: 50.7/39$

cor_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 68.499+/-0.019 χ^2/NDF : 471868.0/15

Left Out: 66.510+/-0.033 χ^2/NDF : 48390.7/2

Right Out: 69.600+/-0.019 χ^2/NDF : 519788.9/18

Left In: 66.261+/-0.036 χ^2/NDF : 62569.9/1

Left: 66.396+/-0.024 χ^2/NDF : 110986.4/4

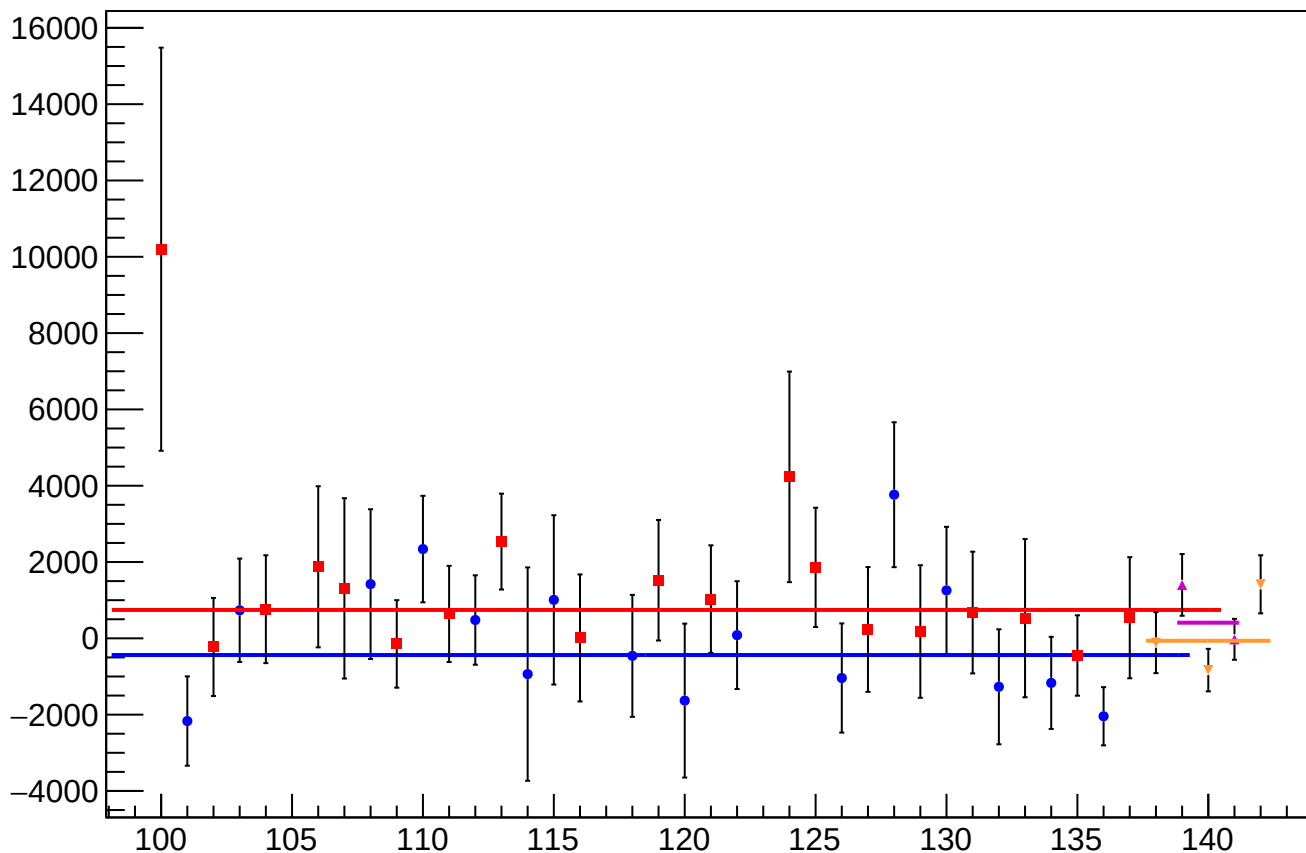
Right: 69.046+/-0.013 χ^2/NDF : 993412.6/34

In: 68.032+/-0.016 χ^2/NDF : 537476.6/17

Out: 68.862+/-0.016 χ^2/NDF : 574738.1/21

All: 68.452+/-0.012 χ^2/NDF : 1113497.4/39

asym_sam_12345678_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -437.415 $\pm$ 348.881 χ^2 /NDF: 20.6/15

Left Out: -64.083 $\pm$ 391.900 χ^2 /NDF: 5.7/2

Right Out: 744.388 $\pm$ 353.488 χ^2 /NDF: 10.9/18

Left In: 410.042 $\pm$ 447.093 χ^2 /NDF: 2.2/1

Left: 141.923 $\pm$ 294.708 χ^2 /NDF: 8.5/4

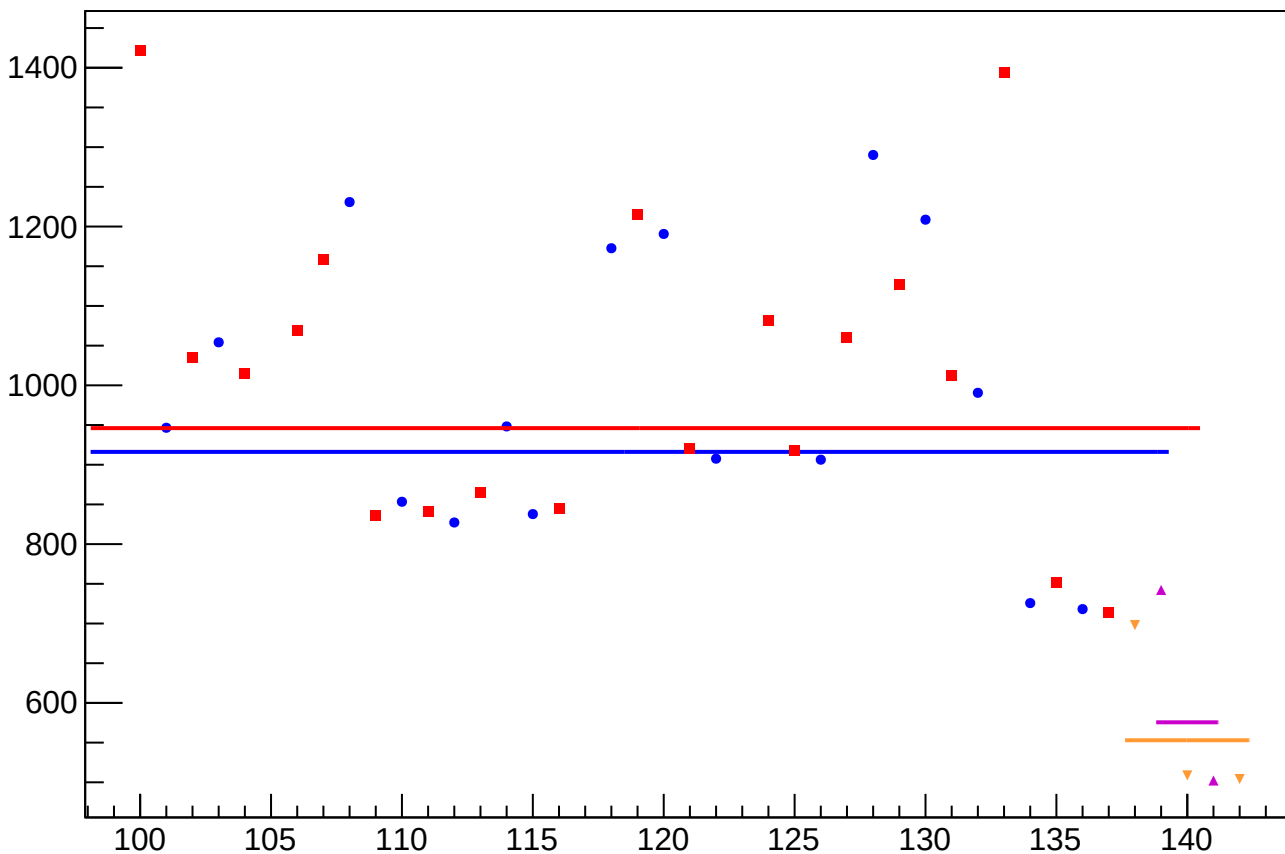
Right: 145.736 $\pm$ 248.309 χ^2 /NDF: 37.1/34

In: -116.683 $\pm$ 275.049 χ^2 /NDF: 24.9/17

Out: 381.705 $\pm$ 262.486 χ^2 /NDF: 18.9/21

All: 144.153 $\pm$ 189.892 χ^2 /NDF: 45.6/39

asym_sam_12345678_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 916.174+/-0.247 χ^2/NDF : 509149.2/15

Left Out: 552.960+/-0.277 χ^2/NDF : 86628.4/2

Right Out: 946.093+/-0.250 χ^2/NDF : 405411.3/18

Left In: 575.577+/-0.316 χ^2/NDF : 122277.7/1

Left: 562.787+/-0.208 χ^2/NDF : 211800.2/4

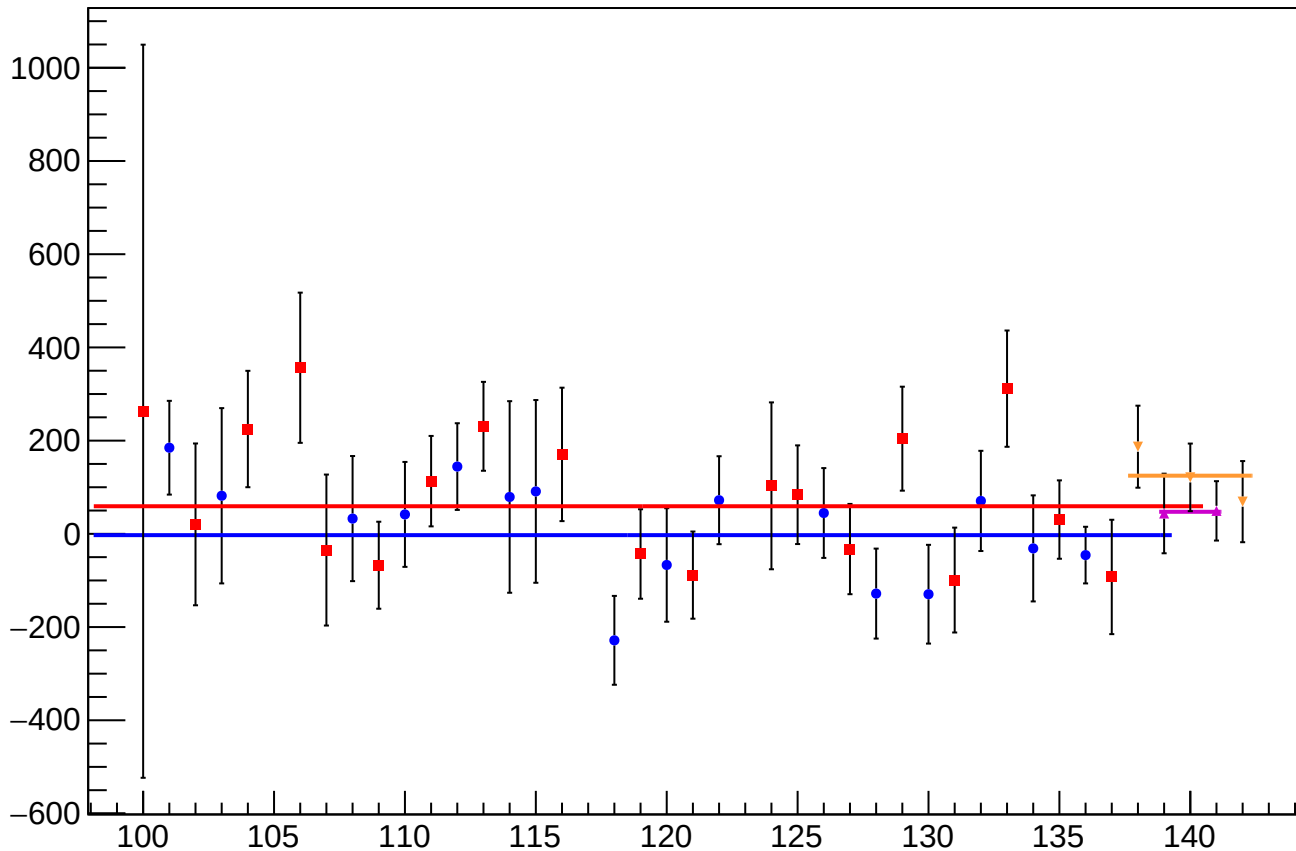
Right: 930.937+/-0.176 χ^2/NDF : 921817.9/34

In: 787.270+/-0.194 χ^2/NDF : 1352836.3/17

Out: 769.732+/-0.186 χ^2/NDF : 1601777.5/21

All: 778.092+/-0.134 χ^2/NDF : 2958869.6/39

eigen_cor_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -2.773 ± 26.213 $\chi^2/\text{NDF}: 17.7/15$

Left Out: 124.805 ± 47.071 $\chi^2/\text{NDF}: 0.9/2$

Right Out: 59.226 ± 26.384 $\chi^2/\text{NDF}: 25.7/18$

Left In: 47.312 ± 51.067 $\chi^2/\text{NDF}: 0.0/1$

Left: 89.209 ± 34.611 $\chi^2/\text{NDF}: 2.2/4$

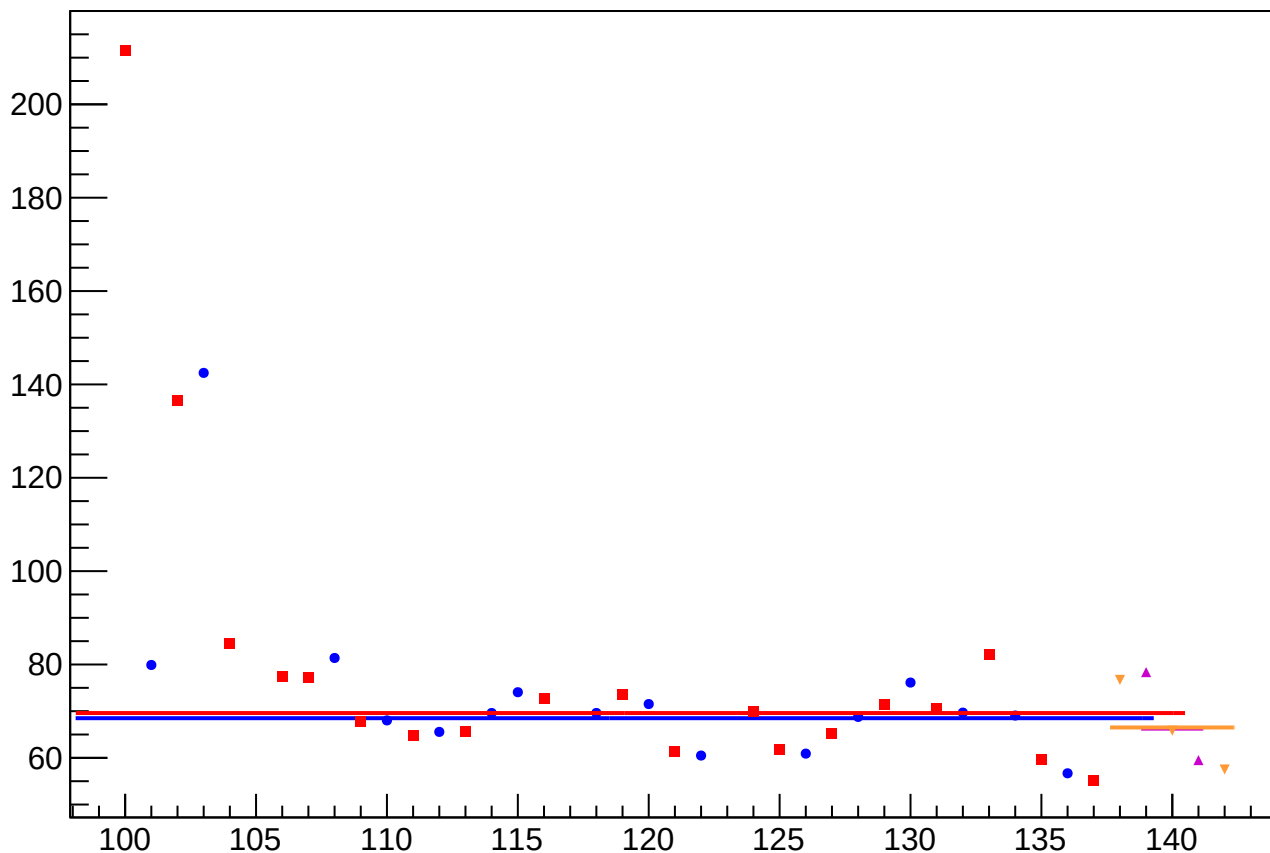
Right: 28.026 ± 18.595 $\chi^2/\text{NDF}: 46.1/34$

In: 7.671 ± 23.320 $\chi^2/\text{NDF}: 18.5/17$

Out: 74.904 ± 23.015 $\chi^2/\text{NDF}: 28.0/21$

All: 41.731 ± 16.381 $\chi^2/\text{NDF}: 50.7/39$

eigen_cor_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 68.499 $\pm$ 0.019 χ^2 /NDF: 471868.0/15

Left Out: 66.510 $\pm$ 0.033 χ^2 /NDF: 48390.7/2

Right Out: 69.600 $\pm$ 0.019 χ^2 /NDF: 519788.9/18

Left In: 66.261 $\pm$ 0.036 χ^2 /NDF: 62569.9/1

Left: 66.396 $\pm$ 0.024 χ^2 /NDF: 110986.4/4

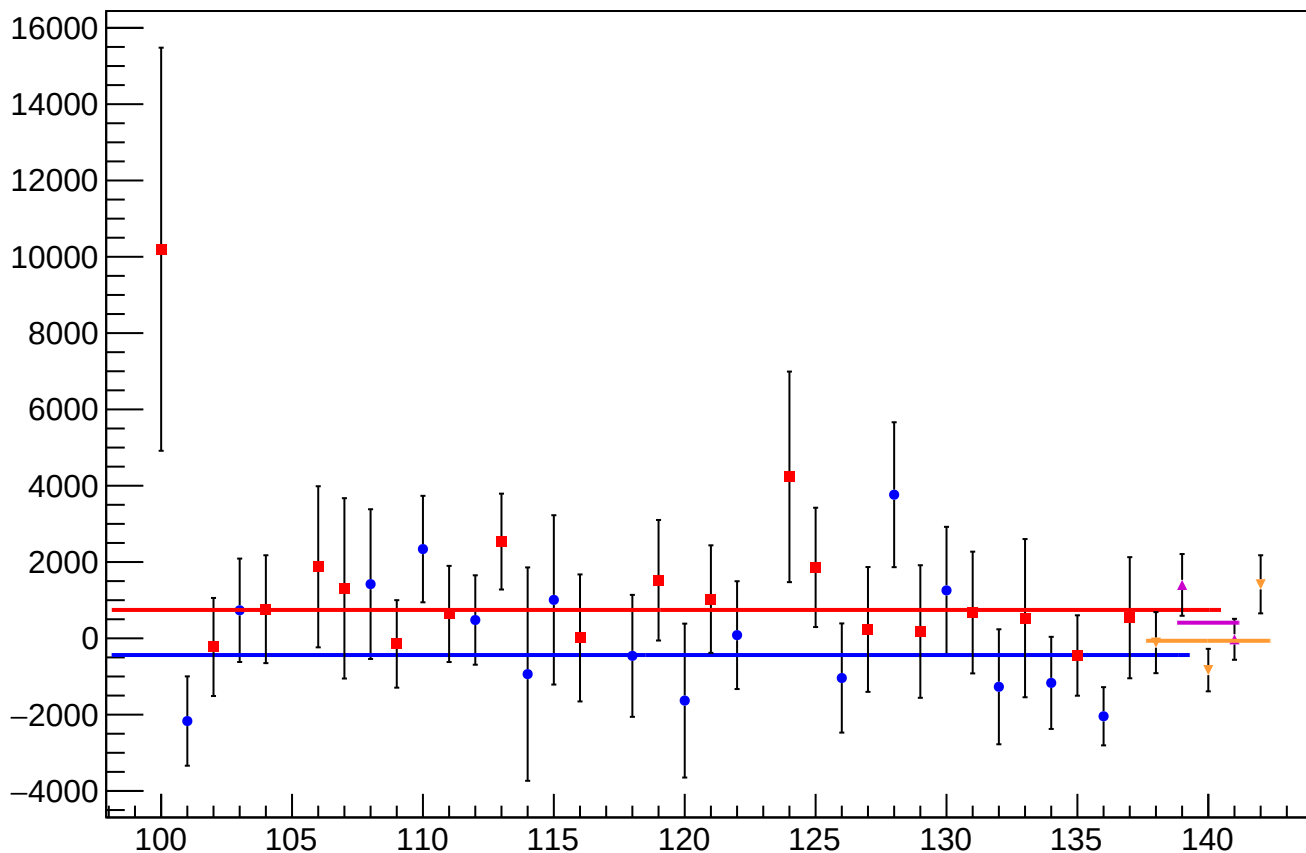
Right: 69.046 $\pm$ 0.013 χ^2 /NDF: 993412.6/34

In: 68.032 $\pm$ 0.016 χ^2 /NDF: 537476.6/17

Out: 68.862 $\pm$ 0.016 χ^2 /NDF: 574738.1/21

All: 68.452 $\pm$ 0.012 χ^2 /NDF: 1113497.4/39

asym_sam_12345678_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -437.415+/-348.881 χ^2/NDF : 20.6/15

Left Out: -64.083+/-391.900 χ^2/NDF : 5.7/2

Right Out: 744.388+/-353.488 χ^2/NDF : 10.9/18

Left In: 410.042+/-447.093 χ^2/NDF : 2.2/1

Left: 141.923+/-294.708 χ^2/NDF : 8.5/4

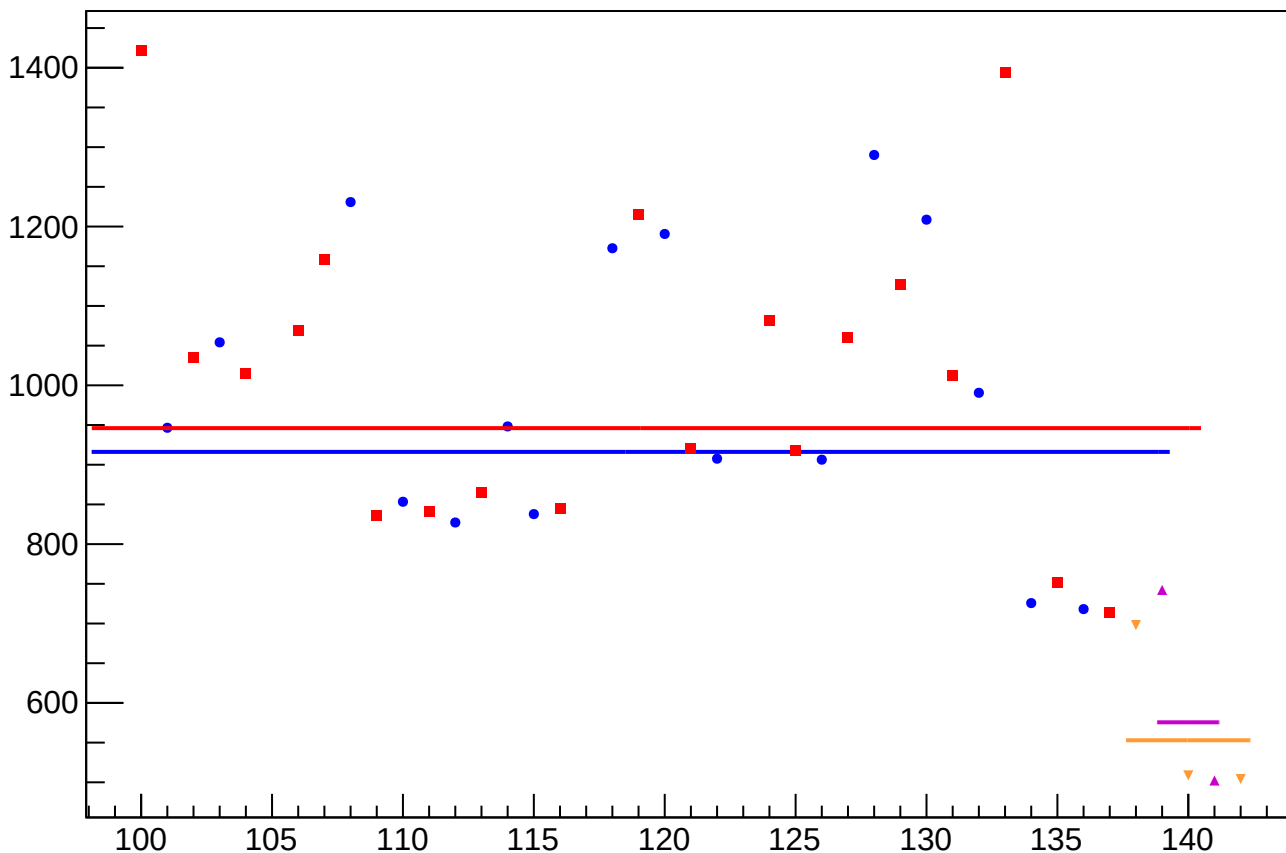
Right: 145.736+/-248.309 χ^2/NDF : 37.1/34

In: -116.683+/-275.049 χ^2/NDF : 24.9/17

Out: 381.705+/-262.486 χ^2/NDF : 18.9/21

All: 144.153+/-189.892 χ^2/NDF : 45.6/39

asym_sam_12345678_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 916.174 ± 0.247 χ^2/NDF : 509149.2/15

Left Out: 552.960 ± 0.277 χ^2/NDF : 86628.4/2

Right Out: 946.093 ± 0.250 χ^2/NDF : 405411.3/18

Left In: 575.577 ± 0.316 χ^2/NDF : 122277.7/1

Left: 562.787 ± 0.208 χ^2/NDF : 211800.2/4

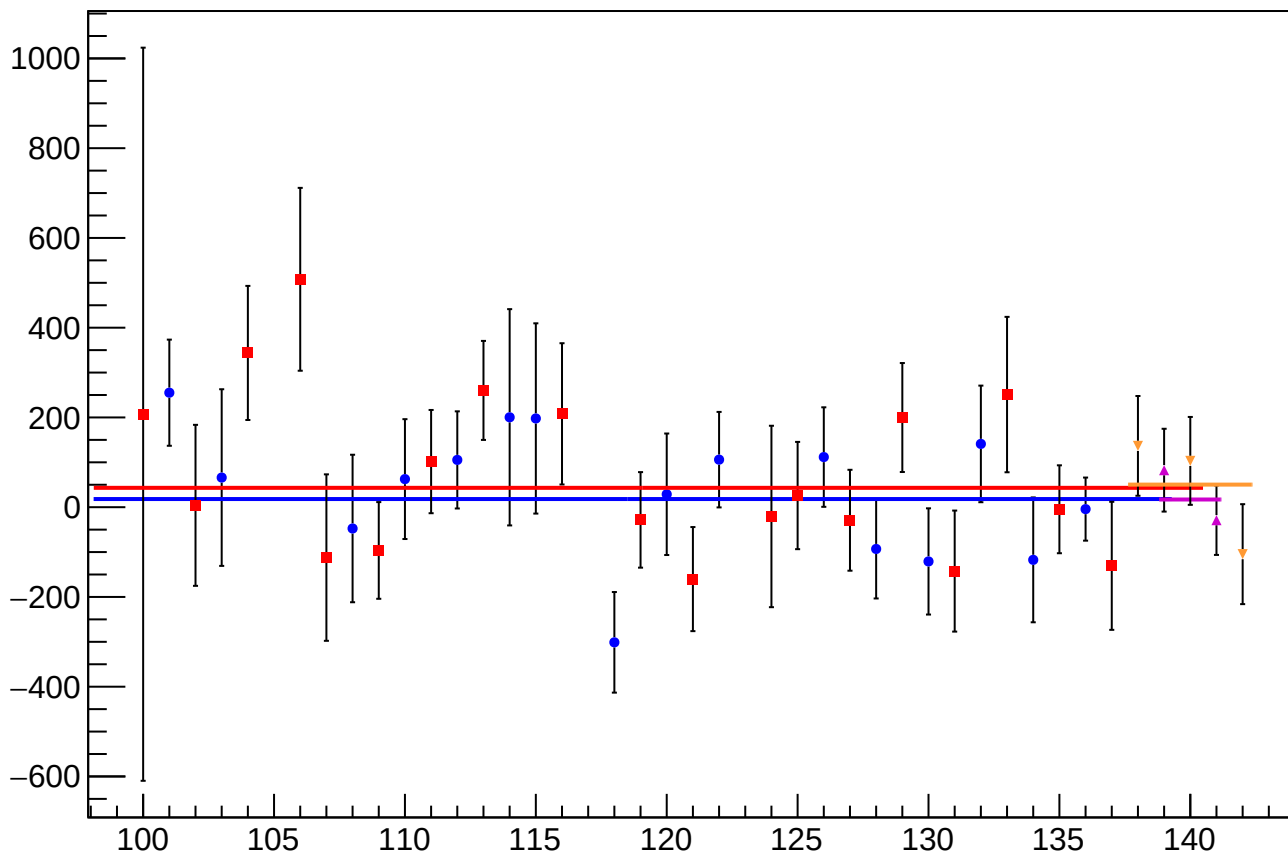
Right: 930.937 ± 0.176 χ^2/NDF : 921817.9/34

In: 787.270 ± 0.194 χ^2/NDF : 1352836.3/17

Out: 769.732 ± 0.186 χ^2/NDF : 1601777.5/21

All: 778.092 ± 0.134 χ^2/NDF : 2958869.6/39

dit_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 18.175+/-30.346 χ^2/NDF : 20.1/15

Left Out: 50.333+/-61.333 χ^2/NDF : 2.8/2

Right Out: 43.146+/-30.707 χ^2/NDF : 27.7/18

Left In: 17.147+/-59.328 χ^2/NDF : 0.9/1

Left: 33.189+/-42.642 χ^2/NDF : 3.8/4

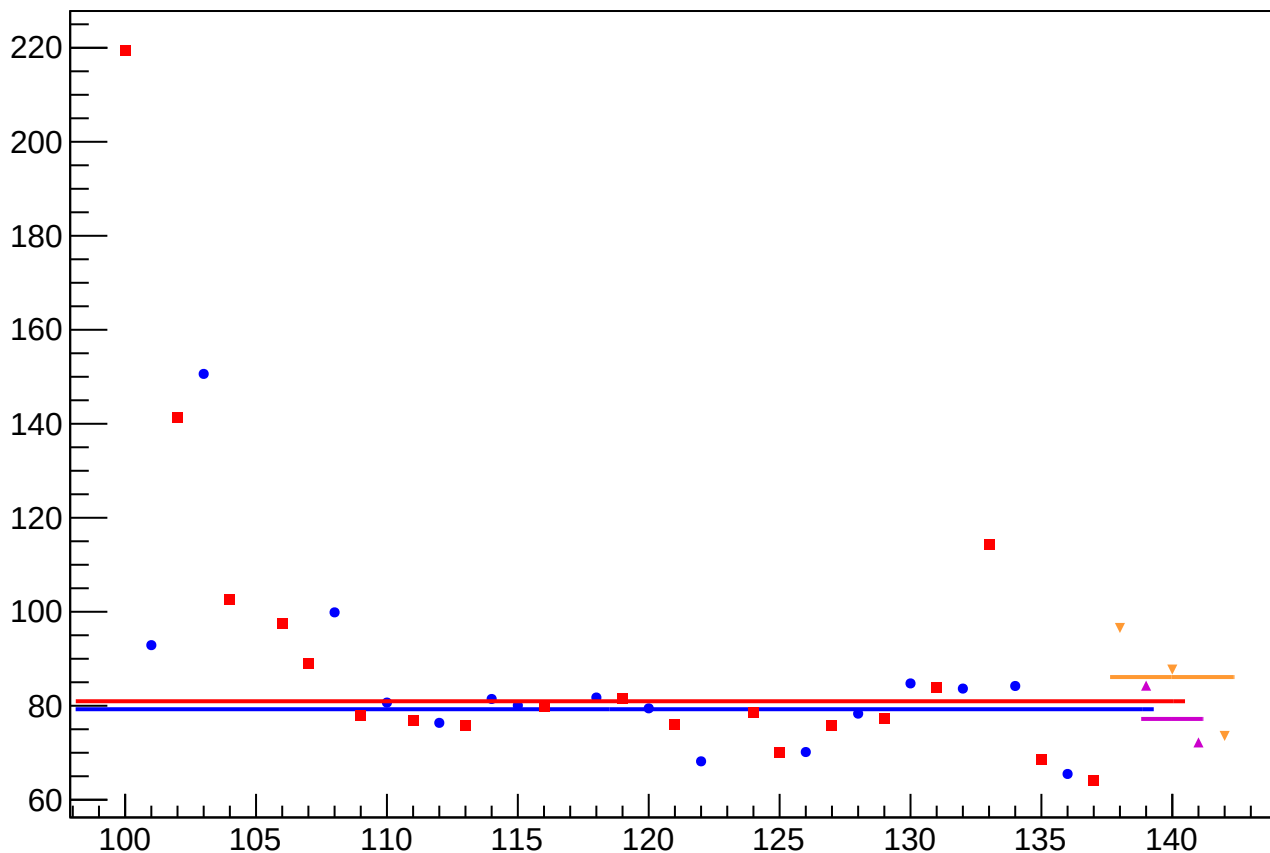
Right: 30.513+/-21.585 χ^2/NDF : 48.2/34

In: 17.962+/-27.017 χ^2/NDF : 21.0/17

Out: 44.586+/-27.458 χ^2/NDF : 30.6/21

All: 31.059+/-19.258 χ^2/NDF : 52.0/39

dit_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 79.263+/-0.021 χ^2/NDF : 444951.1/15

Left Out: 86.109+/-0.043 χ^2/NDF : 43492.6/2

Right Out: 80.958+/-0.022 χ^2/NDF : 514182.4/18

Left In: 77.197+/-0.042 χ^2/NDF : 20095.7/1

Left: 81.505+/-0.030 χ^2/NDF : 85403.7/4

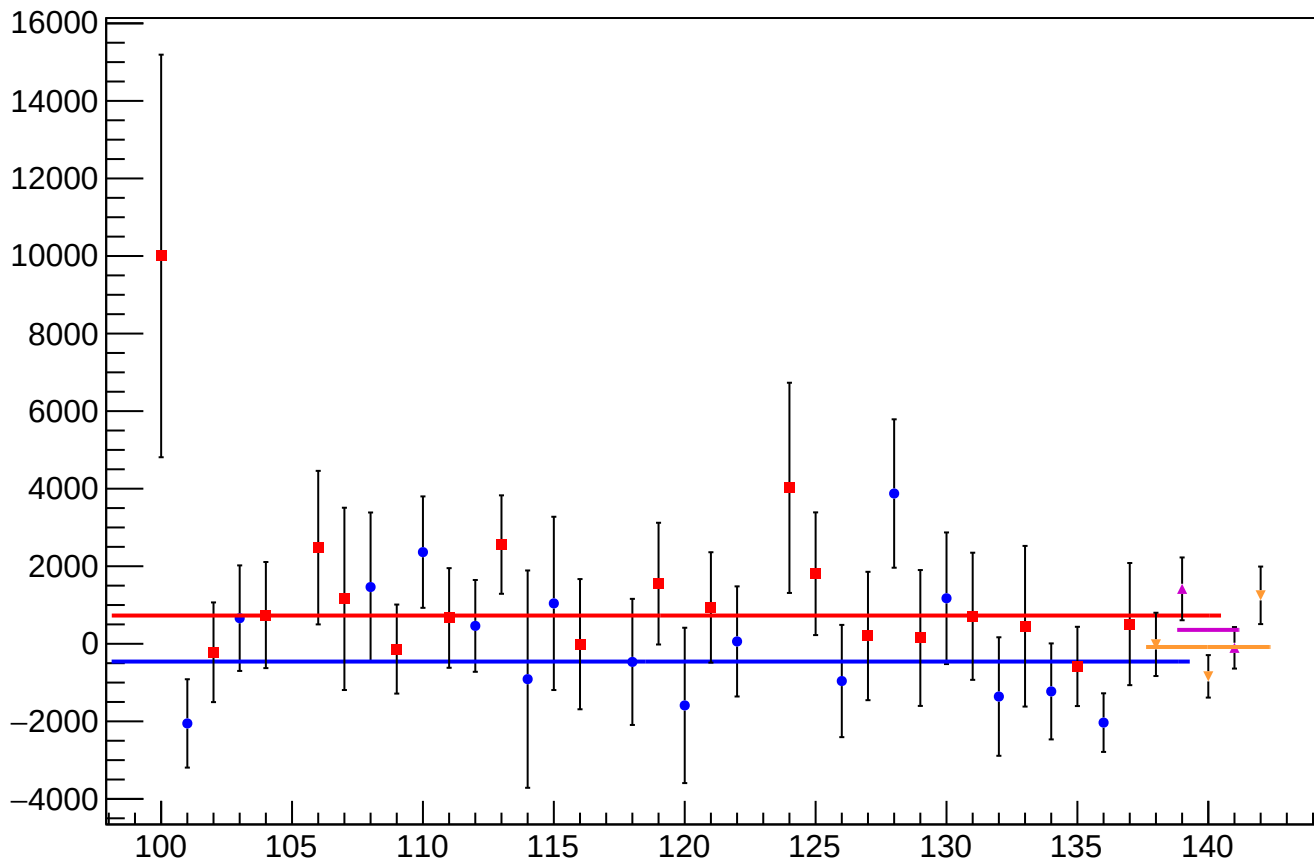
Right: 80.101+/-0.015 χ^2/NDF : 962217.4/34

In: 78.835+/-0.019 χ^2/NDF : 466968.7/17

Out: 81.991+/-0.019 χ^2/NDF : 568954.3/21

All: 80.387+/-0.014 χ^2/NDF : 1049348.4/39

asym_sam_12345678_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -458.108 $\pm$ 350.075 χ^2 /NDF: 20.3/15

Left Out: -82.507 $\pm$ 387.715 χ^2 /NDF:5.1/2

Right Out: 728.750 $\pm$ 352.574 χ^2 /NDF: 11.5/18

Left In: 358.827 $\pm$ 446.532 χ^2 /NDF:2.5/1

Left: 107.198 $\pm$ 292.758 χ^2 /NDF: 8.2/4

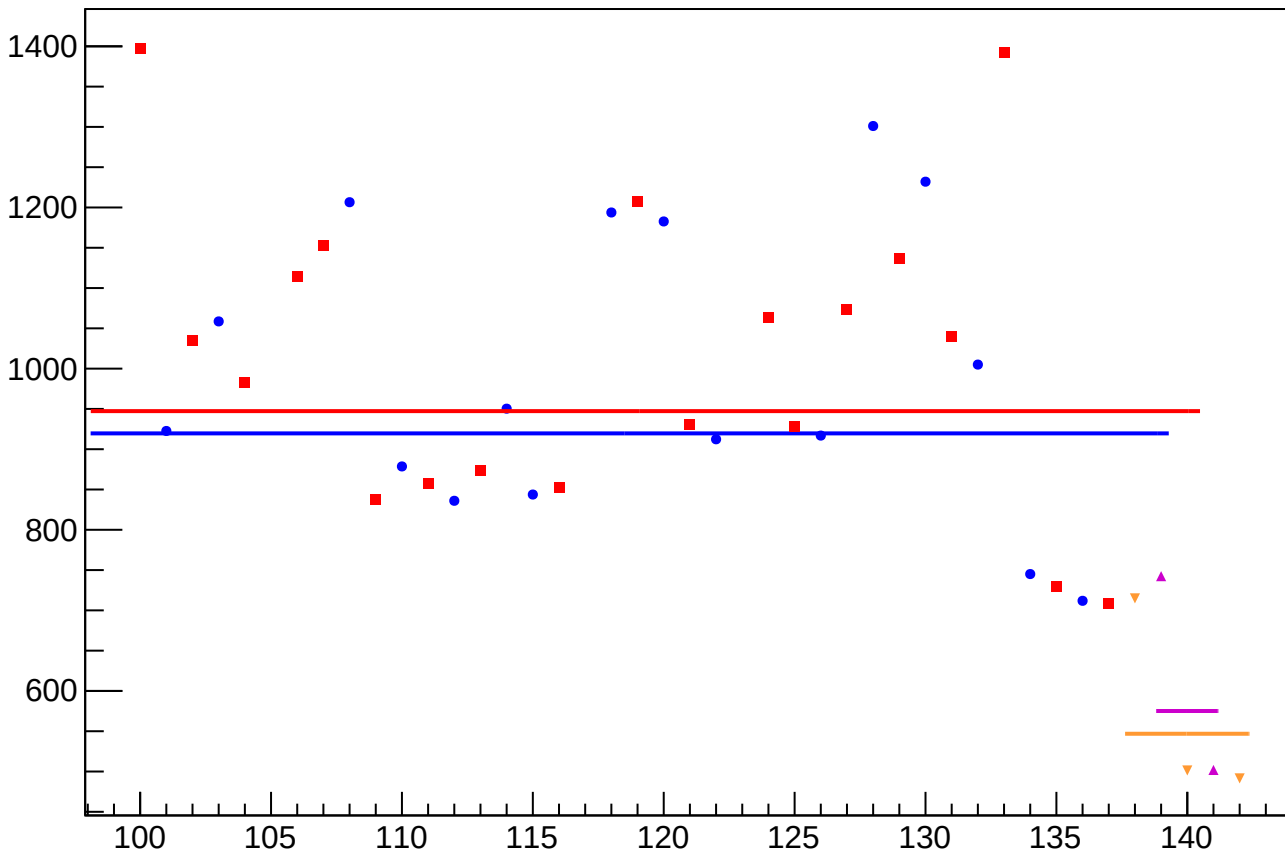
Right: 131.100 $\pm$ 248.419 χ^2 /NDF: 37.5/34

In: -147.130 $\pm$ 275.502 χ^2 /NDF:24.8/17

Out: 361.545 $\pm$ 260.848 χ^2 /NDF:19.1/21

All: 121.095 $\pm$ 189.416 χ^2 /NDF: 45.7/39

asym_sam_12345678_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 919.638+/-0.248 χ^2/NDF : 515443.8/15

Left Out: 546.858+/-0.274 χ^2/NDF : 109794.9/2

Right Out: 947.272+/-0.249 χ^2/NDF : 425563.8/18

Left In: 575.105+/-0.316 χ^2/NDF : 122793.1/1

Left: 559.000+/-0.207 χ^2/NDF : 237151.0/4

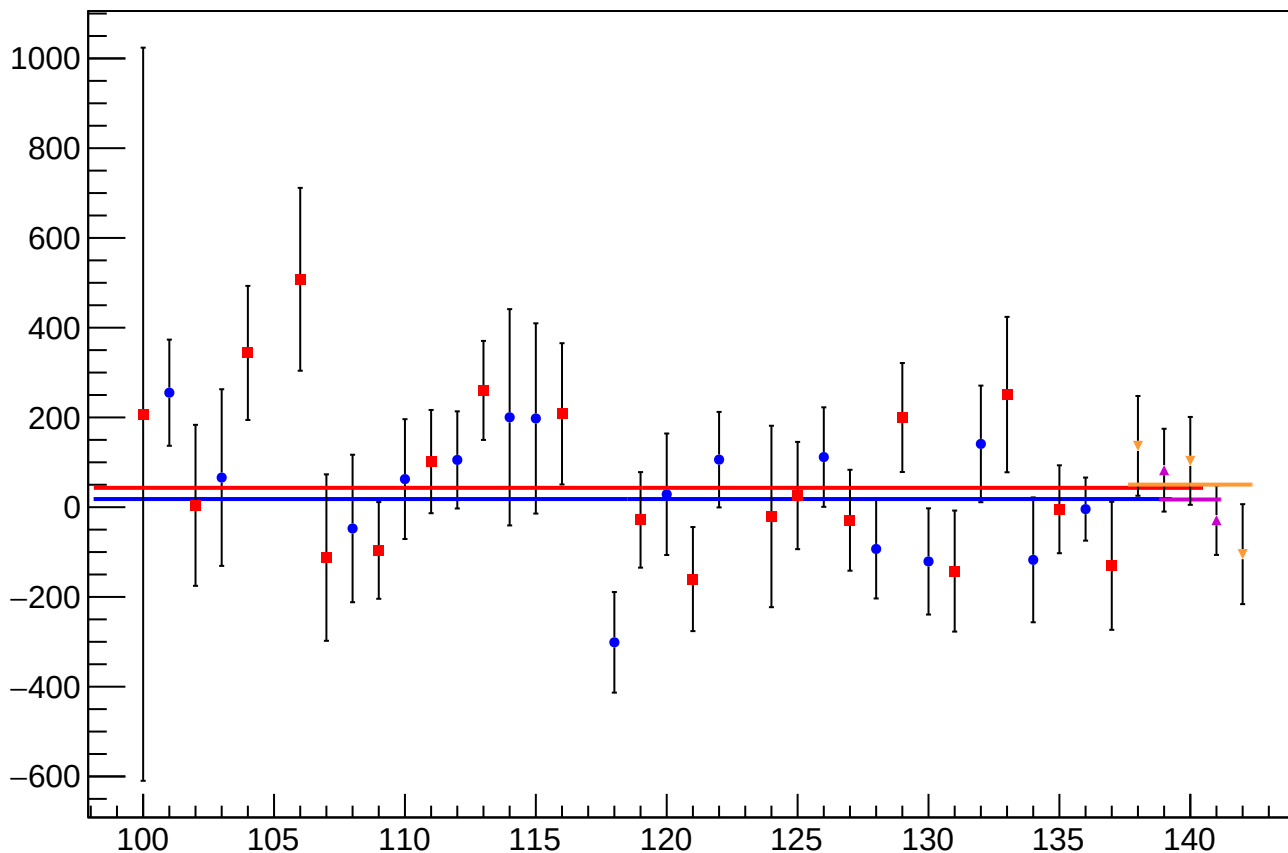
Right: 933.357+/-0.176 χ^2/NDF : 947194.3/34

In: 788.487+/-0.195 χ^2/NDF : 1375654.0/17

Out: 766.030+/-0.184 χ^2/NDF : 1702970.4/21

All: 776.645+/-0.134 χ^2/NDF : 3085631.5/39

eigen_dit_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 18.175+/-30.346 χ^2/NDF : 20.1/15

Left Out: 50.333+/-61.333 χ^2/NDF : 2.8/2

Right Out: 43.144+/-30.707 χ^2/NDF : 27.7/18

Left In: 17.148+/-59.328 χ^2/NDF : 0.9/1

Left: 33.189+/-42.642 χ^2/NDF : 3.8/4

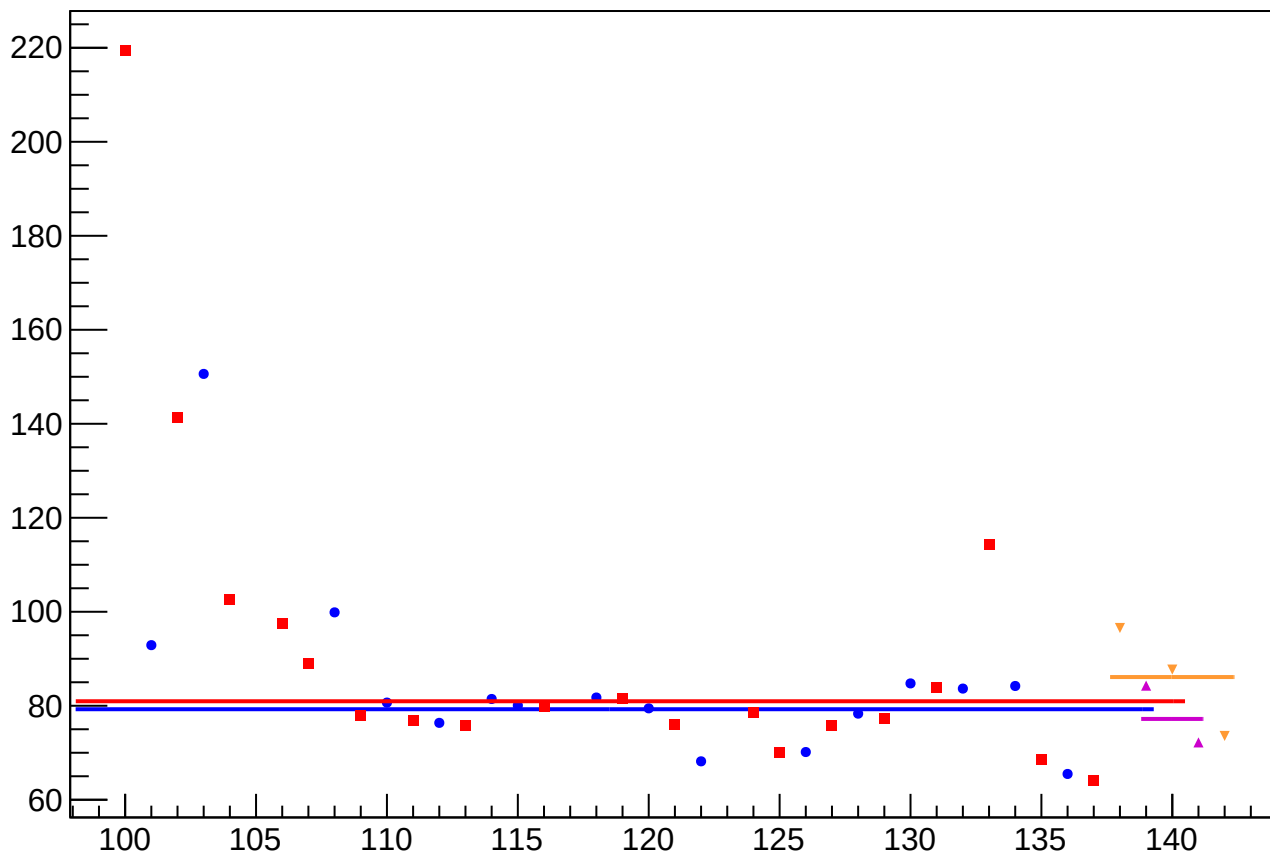
Right: 30.512+/-21.584 χ^2/NDF : 48.2/34

In: 17.962+/-27.017 χ^2/NDF : 21.0/17

Out: 44.585+/-27.458 χ^2/NDF : 30.6/21

All: 31.058+/-19.258 χ^2/NDF : 52.0/39

eigen_dit_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 79.263+/-0.021 χ^2/NDF : 444948.4/15

Left Out: 86.109+/-0.043 χ^2/NDF : 43491.6/2

Right Out: 80.958+/-0.022 χ^2/NDF : 514191.2/18

Left In: 77.197+/-0.042 χ^2/NDF : 20095.0/1

Left: 81.505+/-0.030 χ^2/NDF : 85401.5/4

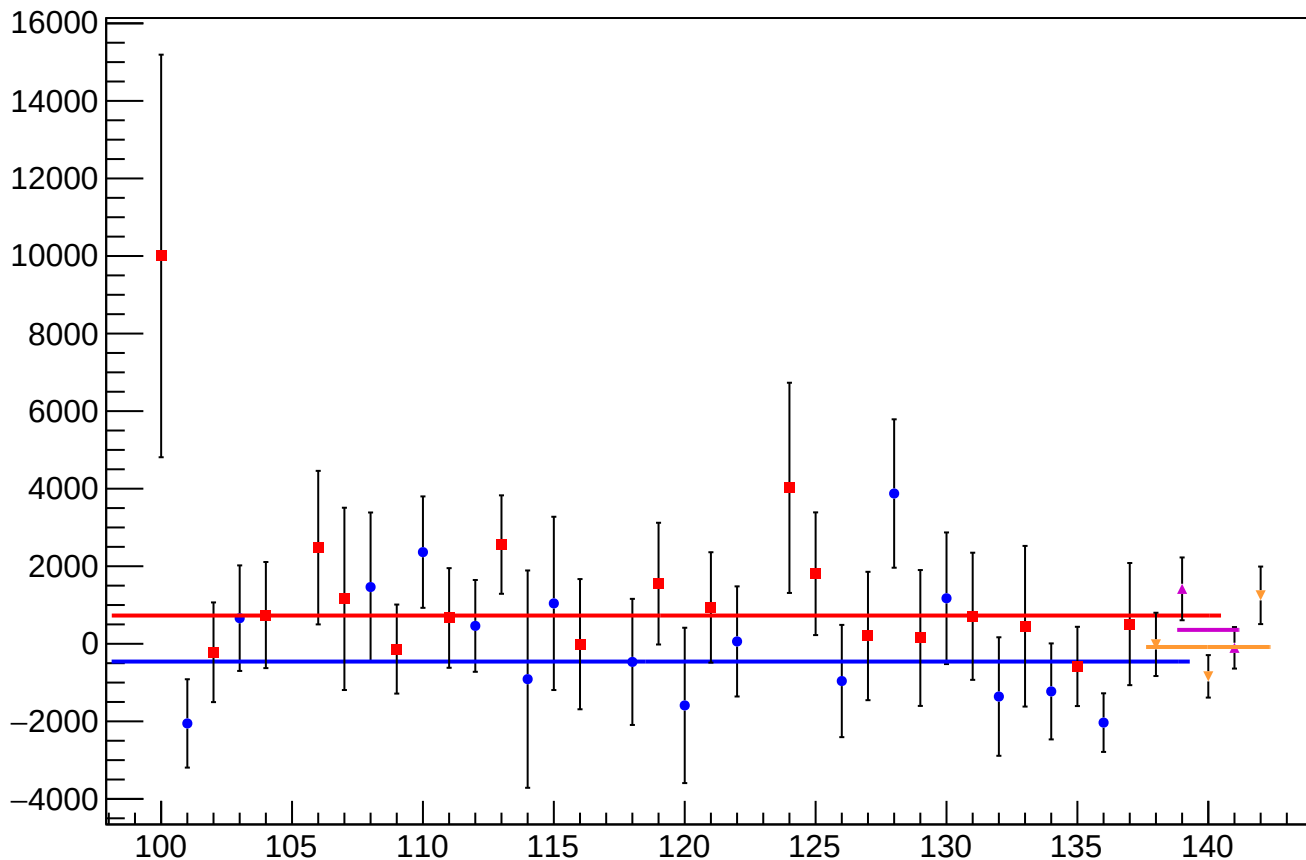
Right: 80.100+/-0.015 χ^2/NDF : 962223.7/34

In: 78.835+/-0.019 χ^2/NDF : 466964.6/17

Out: 81.991+/-0.019 χ^2/NDF : 568963.4/21

All: 80.387+/-0.014 χ^2/NDF : 1049353.4/39

asym_sam_12345678_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -458.104 $\pm$ 350.074 χ^2 /NDF: 20.3/15

Left Out: -82.510 $\pm$ 387.715 χ^2 /NDF:5.1/2

Right Out: 728.749 $\pm$ 352.573 χ^2 /NDF: 11.5/18

Left In: 358.828 $\pm$ 446.532 χ^2 /NDF:2.5/1

Left: 107.197 $\pm$ 292.758 χ^2 /NDF: 8.2/4

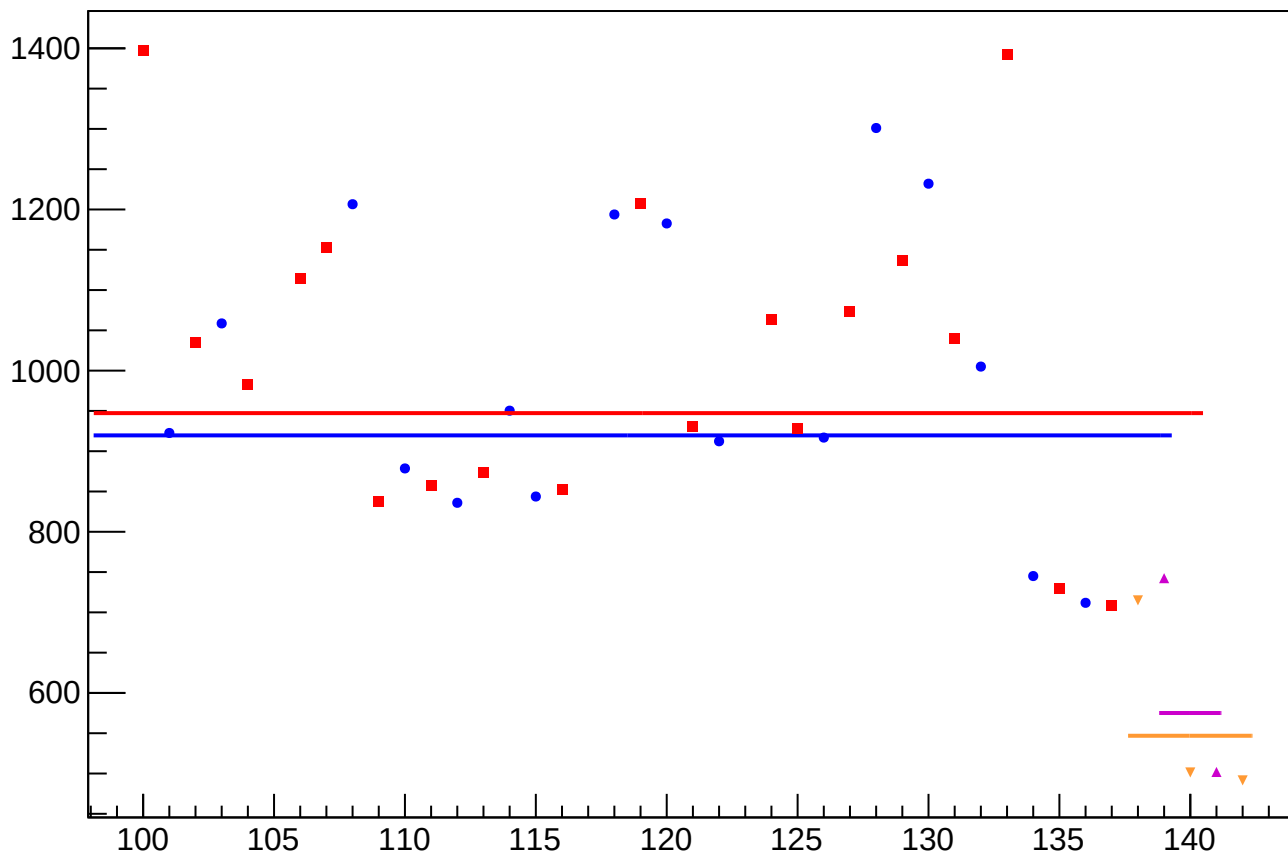
Right: 131.102 $\pm$ 248.419 χ^2 /NDF: 37.5/34

In: -147.128 $\pm$ 275.501 χ^2 /NDF:24.8/17

Out: 361.544 $\pm$ 260.848 χ^2 /NDF:19.1/21

All: 121.095 $\pm$ 189.416 χ^2 /NDF: 45.7/39

asym_sam_12345678_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 919.636 $\pm$ 0.248 χ^2 /NDF: 515443.9/15

Left Out: 546.858 $\pm$ 0.274 χ^2 /NDF: 109793.8/2

Right Out: 947.270 $\pm$ 0.249 χ^2 /NDF: 425565.2/18

Left In: 575.104 $\pm$ 0.316 χ^2 /NDF: 122793.1/1

Left: 558.999 $\pm$ 0.207 χ^2 /NDF: 237149.7/4

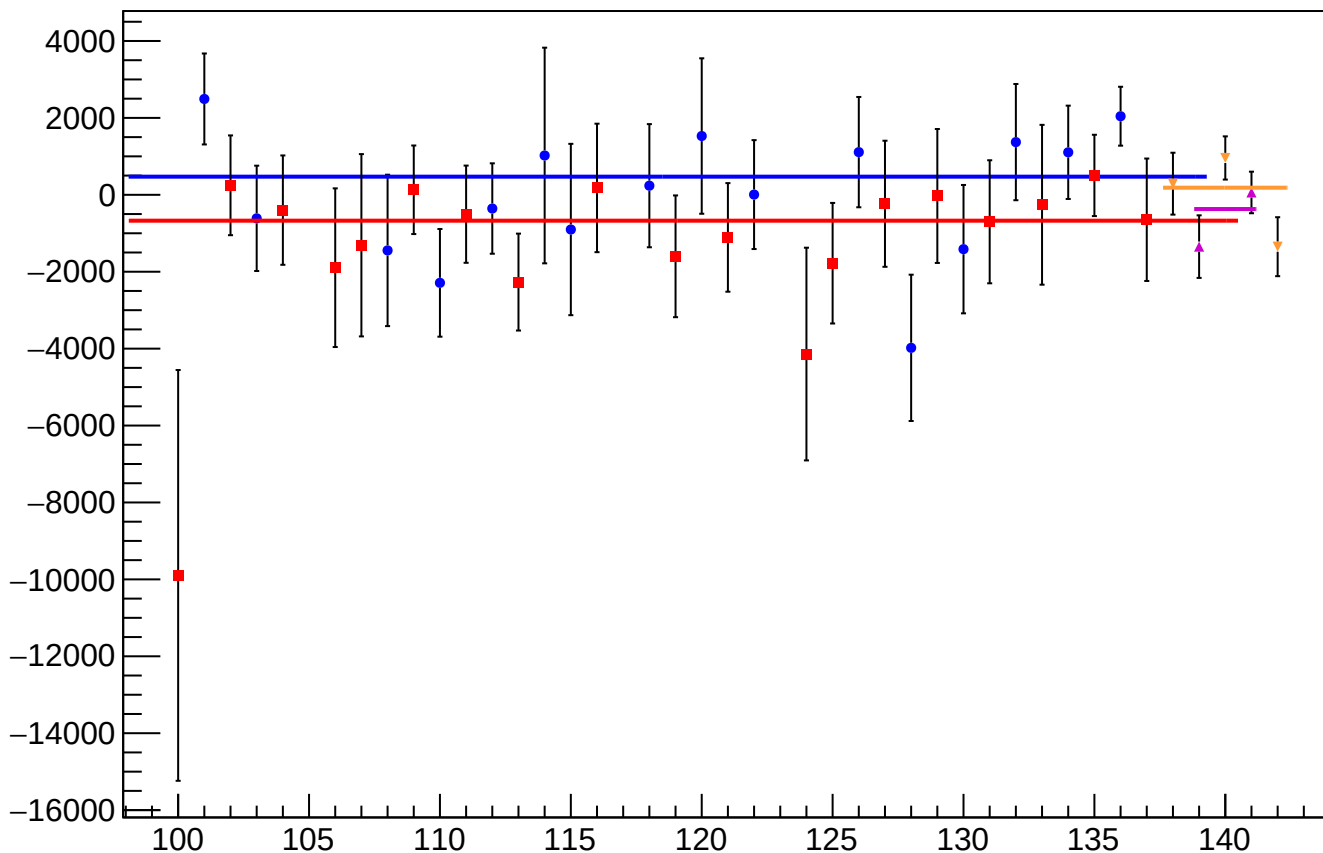
Right: 933.355 $\pm$ 0.176 χ^2 /NDF: 947195.7/34

In: 788.485 $\pm$ 0.195 χ^2 /NDF: 1375653.5/17

Out: 766.029 $\pm$ 0.184 χ^2 /NDF: 1702964.7/21

All: 776.644 $\pm$ 0.134 χ^2 /NDF: 3085625.0/39

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 472.014 $\pm$ 350.376 χ^2 /NDF: 21.5/15

Left Out: 185.188 $\pm$ 394.862 χ^2 /NDF:5.9/2

Right Out: -672.537 $\pm$ 354.512 χ^2 /NDF: 10.3/18

Left In: -369.695 $\pm$ 450.084 χ^2 /NDF:2.1/1

Left: -56.143 $\pm$ 296.824 χ^2 /NDF: 8.9/4

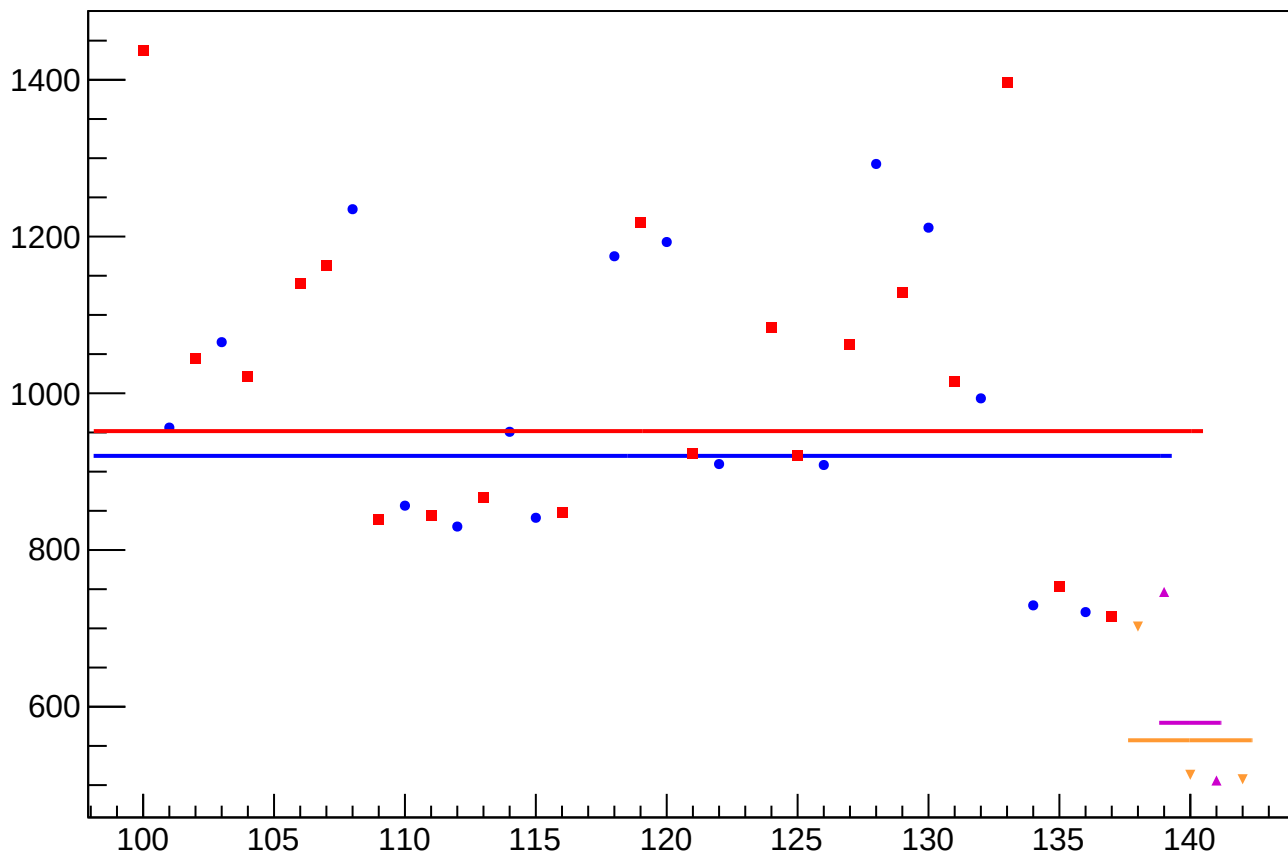
Right: -93.545 $\pm$ 249.203 χ^2 /NDF: 37.1/34

In: 154.404 $\pm$ 276.477 χ^2 /NDF:25.7/17

Out: -289.724 $\pm$ 263.793 χ^2 /NDF:18.8/21

All: -78.081 $\pm$ 190.857 χ^2 /NDF: 45.9/39

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 920.125+/-0.248 χ^2/NDF : 508678.6/15

Left Out: 557.196+/-0.279 χ^2/NDF : 85757.9/2

Right Out: 951.726+/-0.251 χ^2/NDF : 416116.3/18

Left In: 579.508+/-0.318 χ^2/NDF : 121401.8/1

Left: 566.900+/-0.210 χ^2/NDF : 209937.2/4

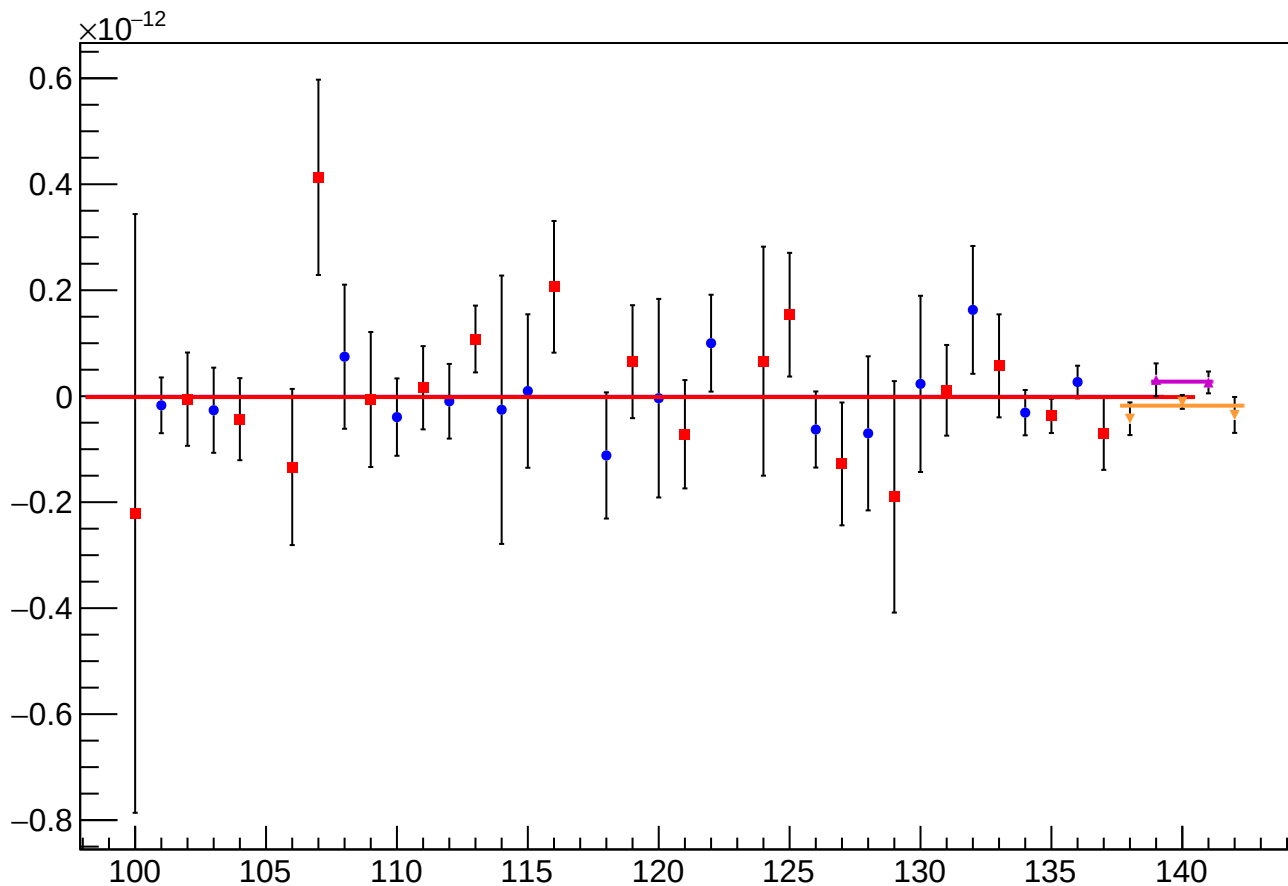
Right: 935.740+/-0.176 χ^2/NDF : 932834.0/34

In: 791.597+/-0.195 χ^2/NDF : 1343306.1/17

Out: 775.643+/-0.187 χ^2/NDF : 1607396.1/21

All: 783.246+/-0.135 χ^2/NDF : 2954188.5/39

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 7.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 1.2/2

Right Out: -0.000+/-0.000 χ^2/NDF : 19.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/1

Left: -0.000+/-0.000 χ^2/NDF : 6.1/4

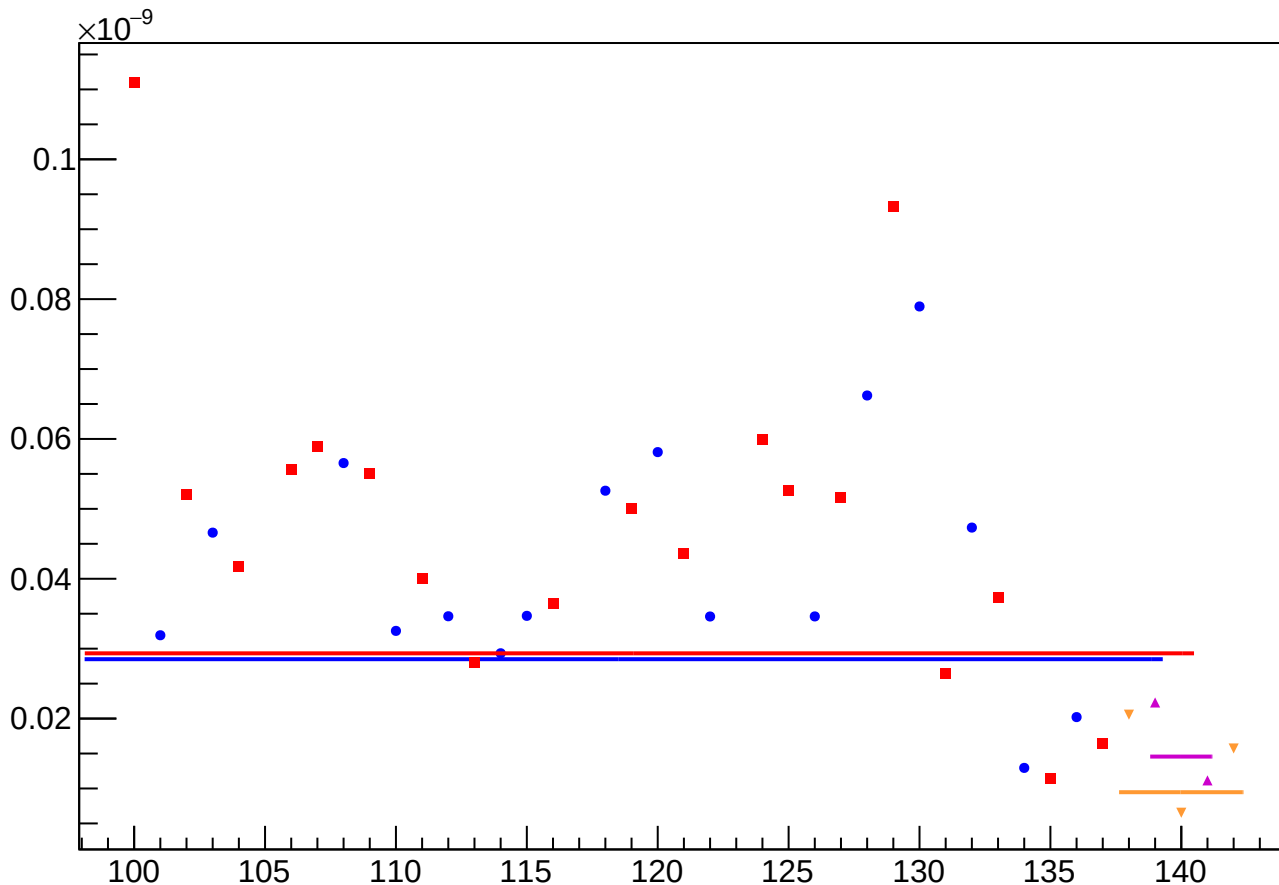
Right: -0.000+/-0.000 χ^2/NDF : 26.5/34

In: 0.000+/-0.000 χ^2/NDF : 8.4/17

Out: -0.000+/-0.000 χ^2/NDF : 21.1/21

All: -0.000+/-0.000 χ^2/NDF : 32.6/39

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1152293.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 427920.8/2

Right Out: 0.000+/-0.000 χ^2/NDF : 1645968.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 178784.1/1

Left: 0.000+/-0.000 χ^2/NDF : 729215.0/4

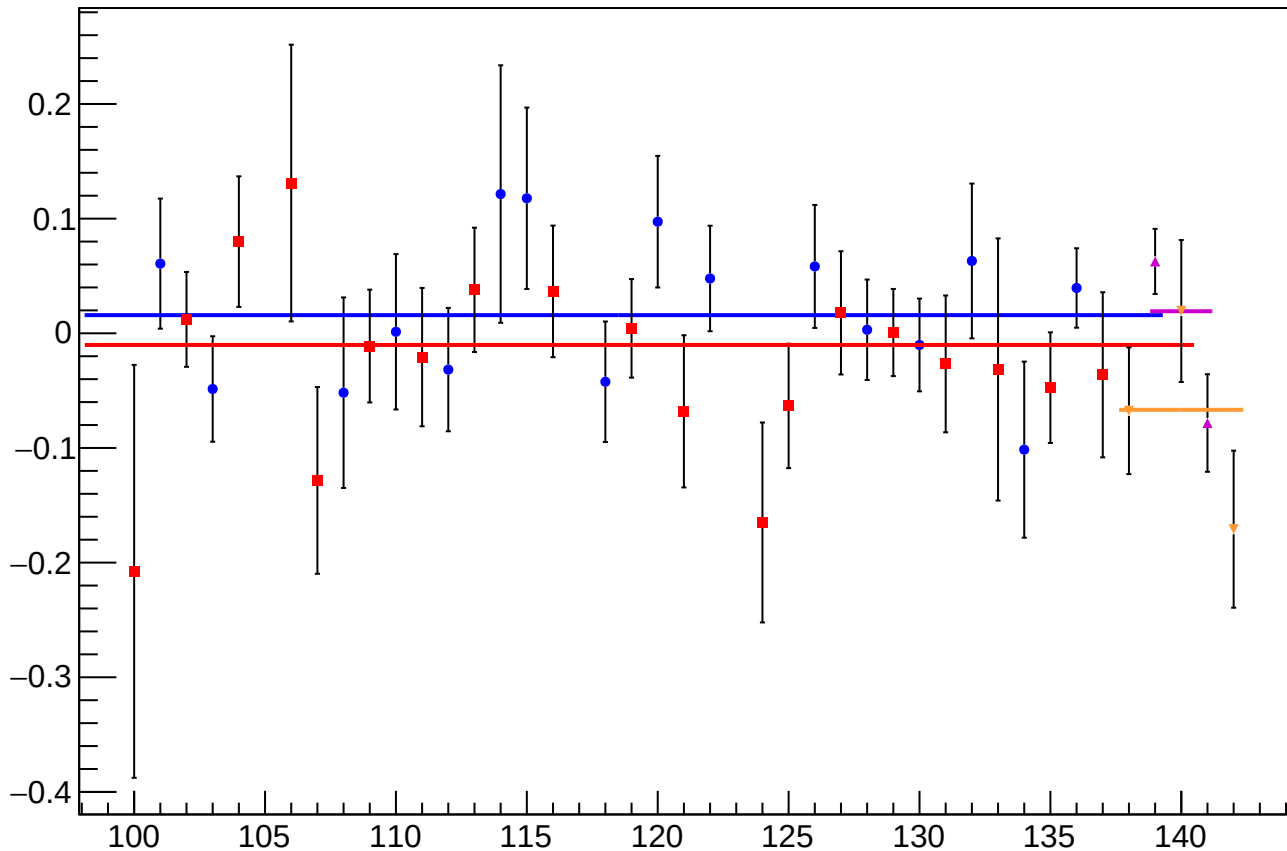
Right: 0.000+/-0.000 χ^2/NDF : 2800314.7/34

In: 0.000+/-0.000 χ^2/NDF : 1968996.1/17

Out: 0.000+/-0.000 χ^2/NDF : 3652989.7/21

All: 0.000+/-0.000 χ^2/NDF : 5986830.8/39

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.013 χ^2 /NDF: 14.8/15

Left Out: -0.067 $\pm$ 0.035 χ^2 /NDF:4.2/2

Right Out: -0.010 $\pm$ 0.013 χ^2 /NDF: 15.1/18

Left In: 0.019 $\pm$ 0.024 χ^2 /NDF:7.6/1

Left: -0.007 $\pm$ 0.020 χ^2 /NDF: 15.9/4

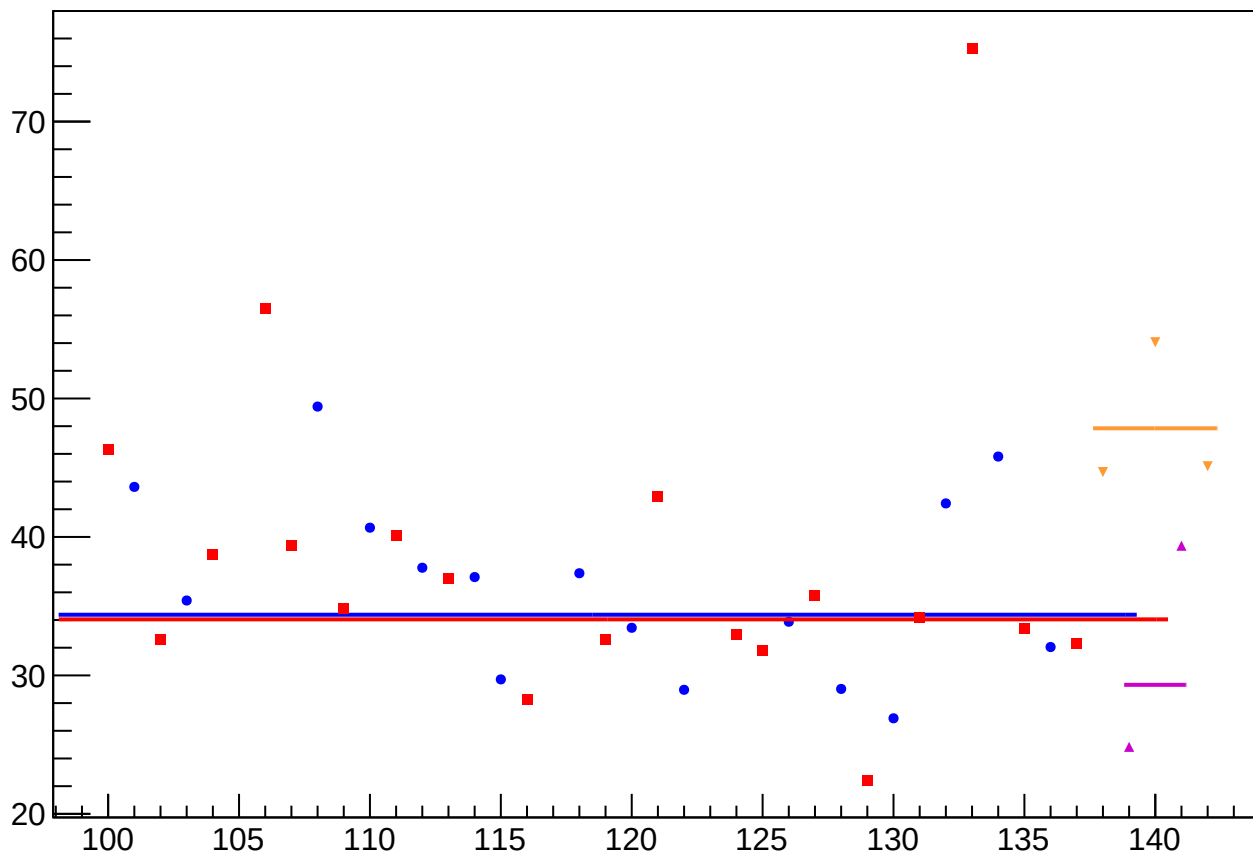
Right: 0.003 $\pm$ 0.009 χ^2 /NDF: 31.8/34

In: 0.017 $\pm$ 0.012 χ^2 /NDF:22.4/17

Out: -0.017 $\pm$ 0.012 χ^2 /NDF:21.6/21

All: 0.001 $\pm$ 0.008 χ^2 /NDF: 47.9/39

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.382+/-0.009 χ^2/NDF : 367883.0/15

Left Out: 47.846+/-0.025 χ^2/NDF : 29899.8/2

Right Out: 34.047+/-0.009 χ^2/NDF : 642697.3/18

Left In: 29.319+/-0.017 χ^2/NDF : 161263.9/1

Left: 35.044+/-0.014 χ^2/NDF : 571391.4/4

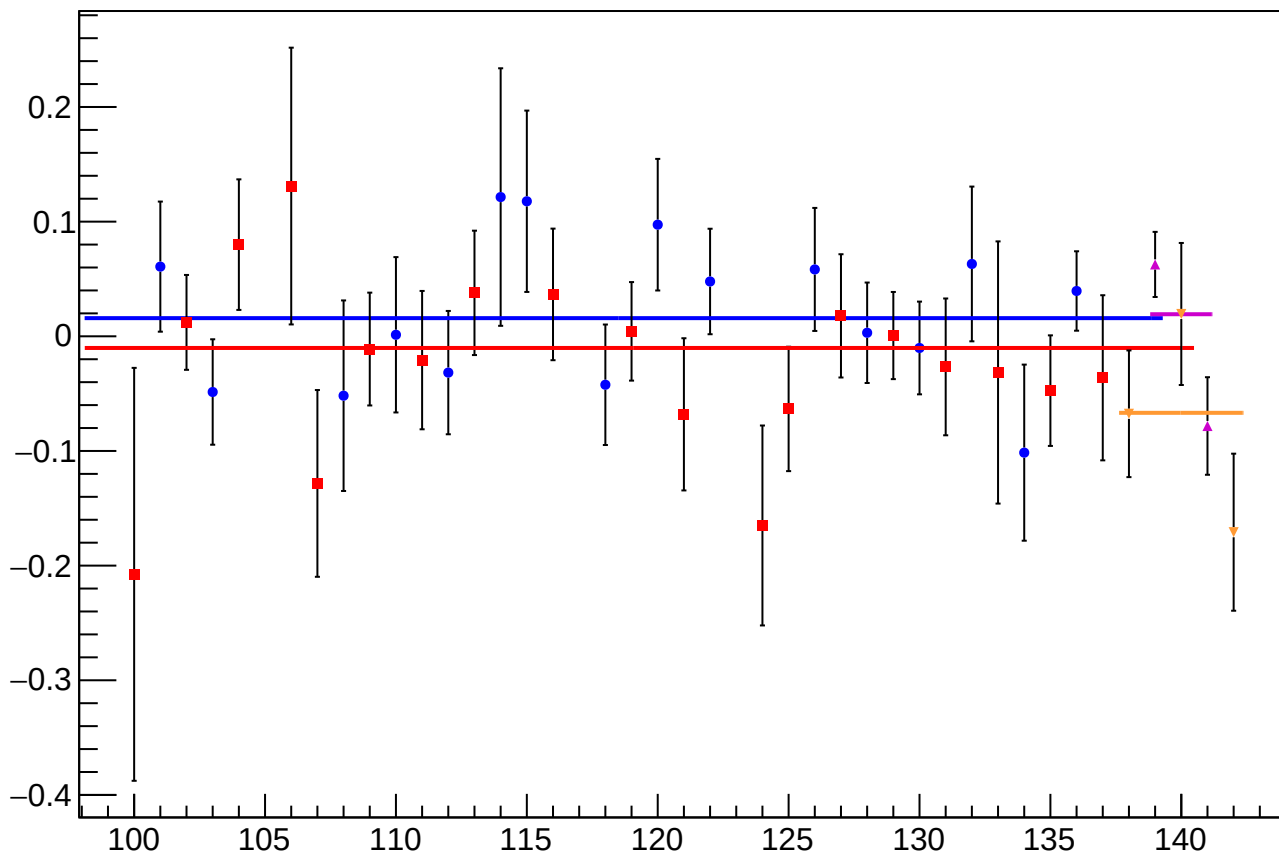
Right: 34.212+/-0.007 χ^2/NDF : 1011212.4/34

In: 33.150+/-0.008 χ^2/NDF : 598670.2/17

Out: 35.740+/-0.009 χ^2/NDF : 940389.3/21

All: 34.367+/-0.006 χ^2/NDF : 1585522.4/39

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.013 χ^2 /NDF: 14.8/15

Left Out: -0.067 $\pm$ 0.035 χ^2 /NDF:4.2/2

Right Out: -0.010 $\pm$ 0.013 χ^2 /NDF: 15.1/18

Left In: 0.019 $\pm$ 0.024 χ^2 /NDF:7.6/1

Left: -0.007 $\pm$ 0.020 χ^2 /NDF: 15.9/4

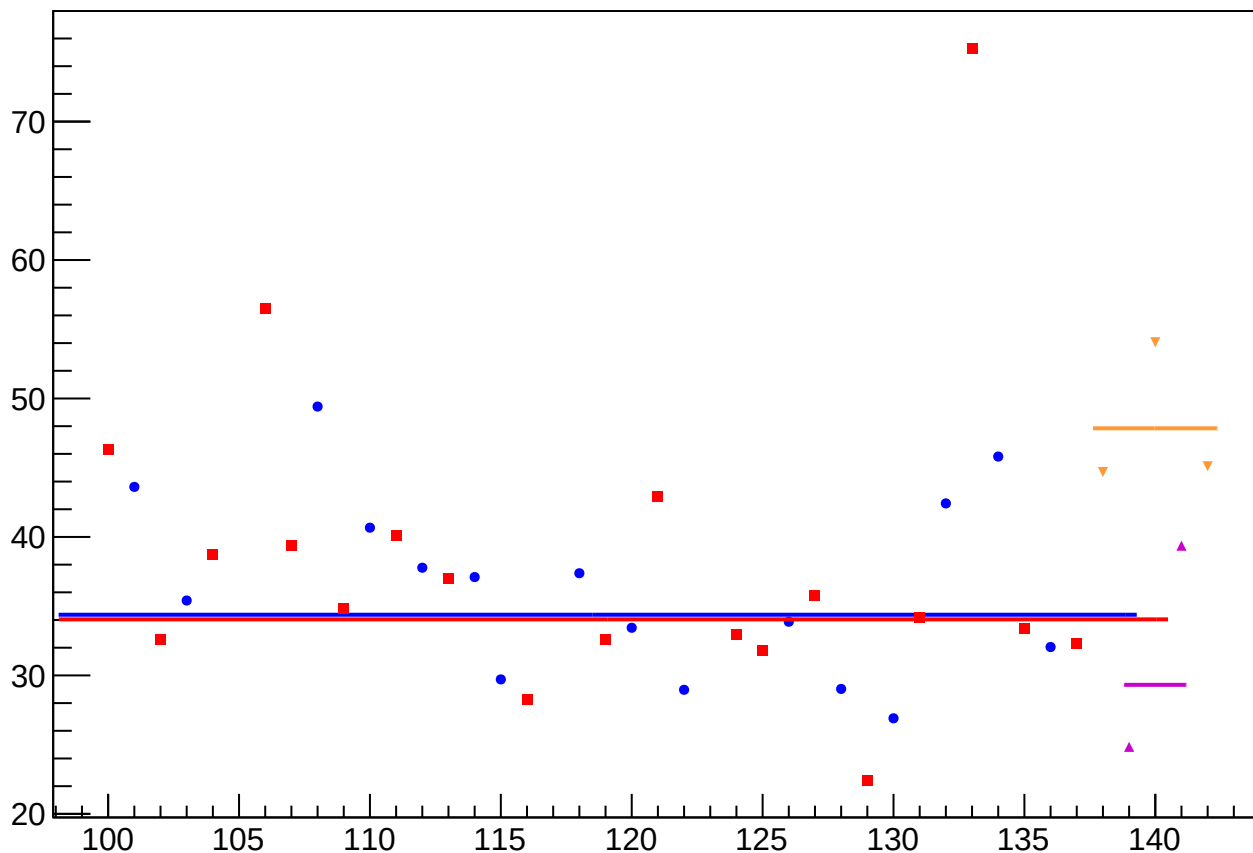
Right: 0.003 $\pm$ 0.009 χ^2 /NDF: 31.8/34

In: 0.017 $\pm$ 0.012 χ^2 /NDF:22.4/17

Out: -0.017 $\pm$ 0.012 χ^2 /NDF:21.6/21

All: 0.001 $\pm$ 0.008 χ^2 /NDF: 47.9/39

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.382 $\pm$ 0.009 χ^2 /NDF: 367883.0/15

Left Out: 47.846 $\pm$ 0.025 χ^2 /NDF: 29899.8/2

Right Out: 34.047 $\pm$ 0.009 χ^2 /NDF: 642697.3/18

Left In: 29.319 $\pm$ 0.017 χ^2 /NDF: 161263.9/1

Left: 35.044 $\pm$ 0.014 χ^2 /NDF: 571391.4/4

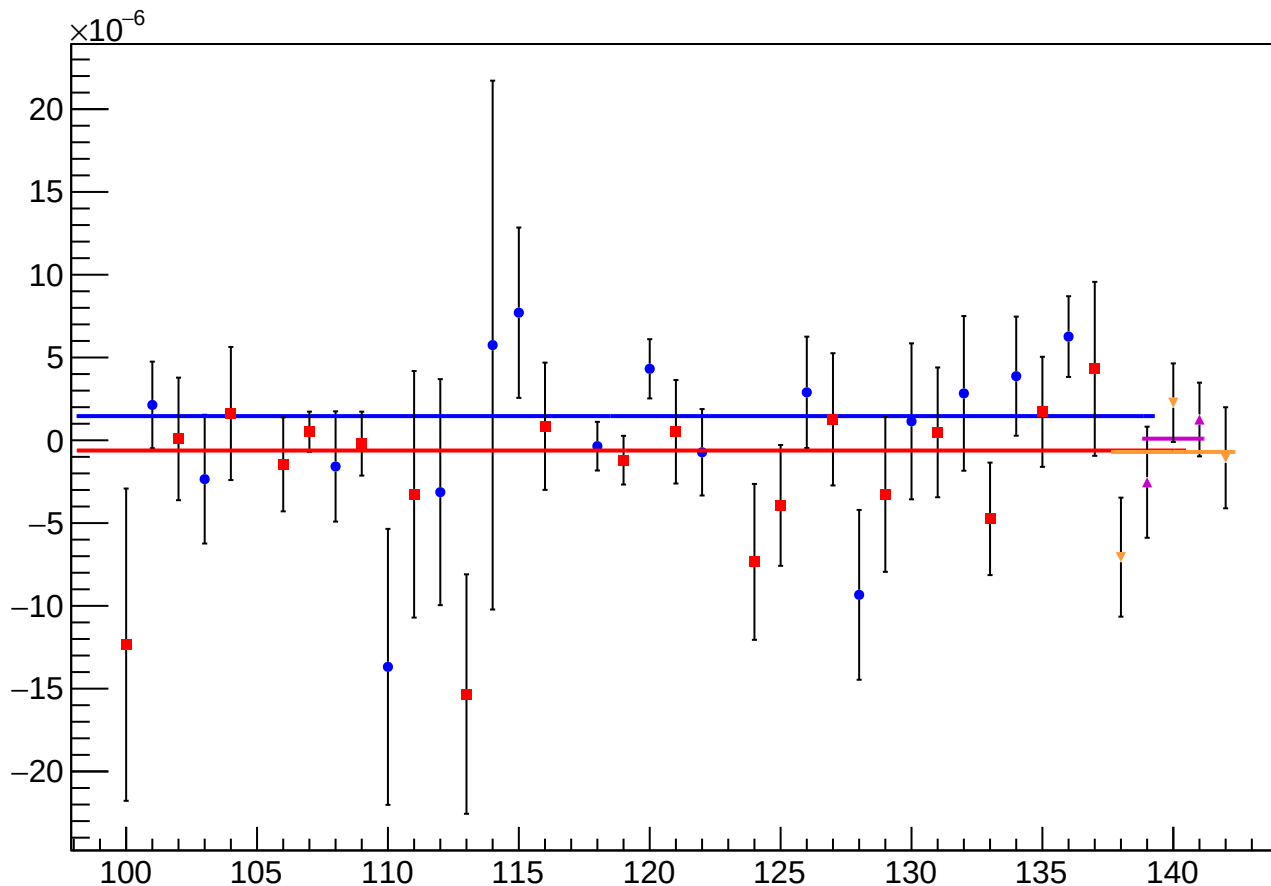
Right: 34.212 $\pm$ 0.007 χ^2 /NDF: 1011212.4/34

In: 33.150 $\pm$ 0.008 χ^2 /NDF: 598670.2/17

Out: 35.740 $\pm$ 0.009 χ^2 /NDF: 940389.3/21

All: 34.367 $\pm$ 0.006 χ^2 /NDF: 1585522.4/39

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 21.0/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:4.7/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 13.9/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.9/1

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 5.7/4

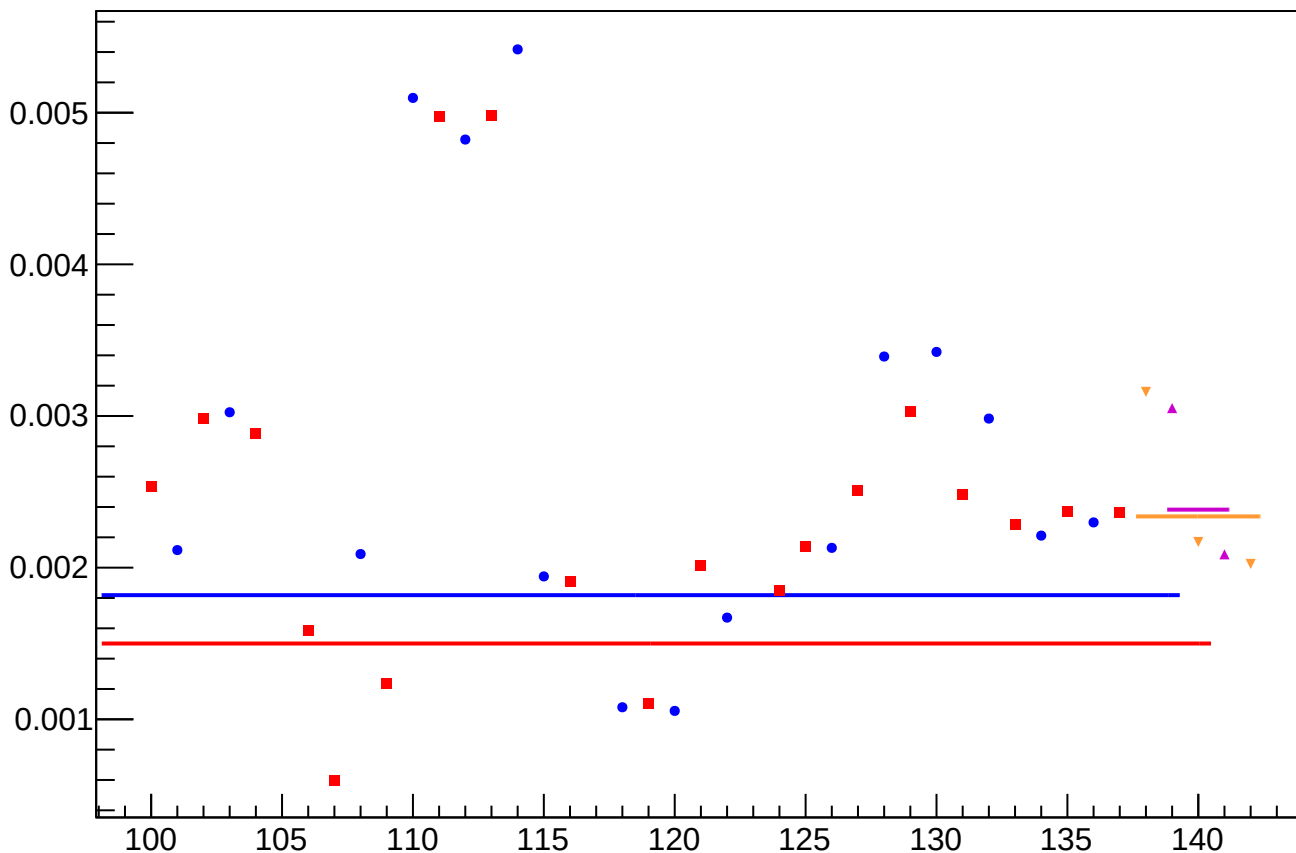
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 39.3/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:22.3/17

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:18.7/21

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 45.2/39

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 2570250.6/15

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:135591.1/2

Right Out: 0.001 $\pm$ 0.000 χ^2 /NDF: 3689451.2/18

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:114688.8/1

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 250929.8/4

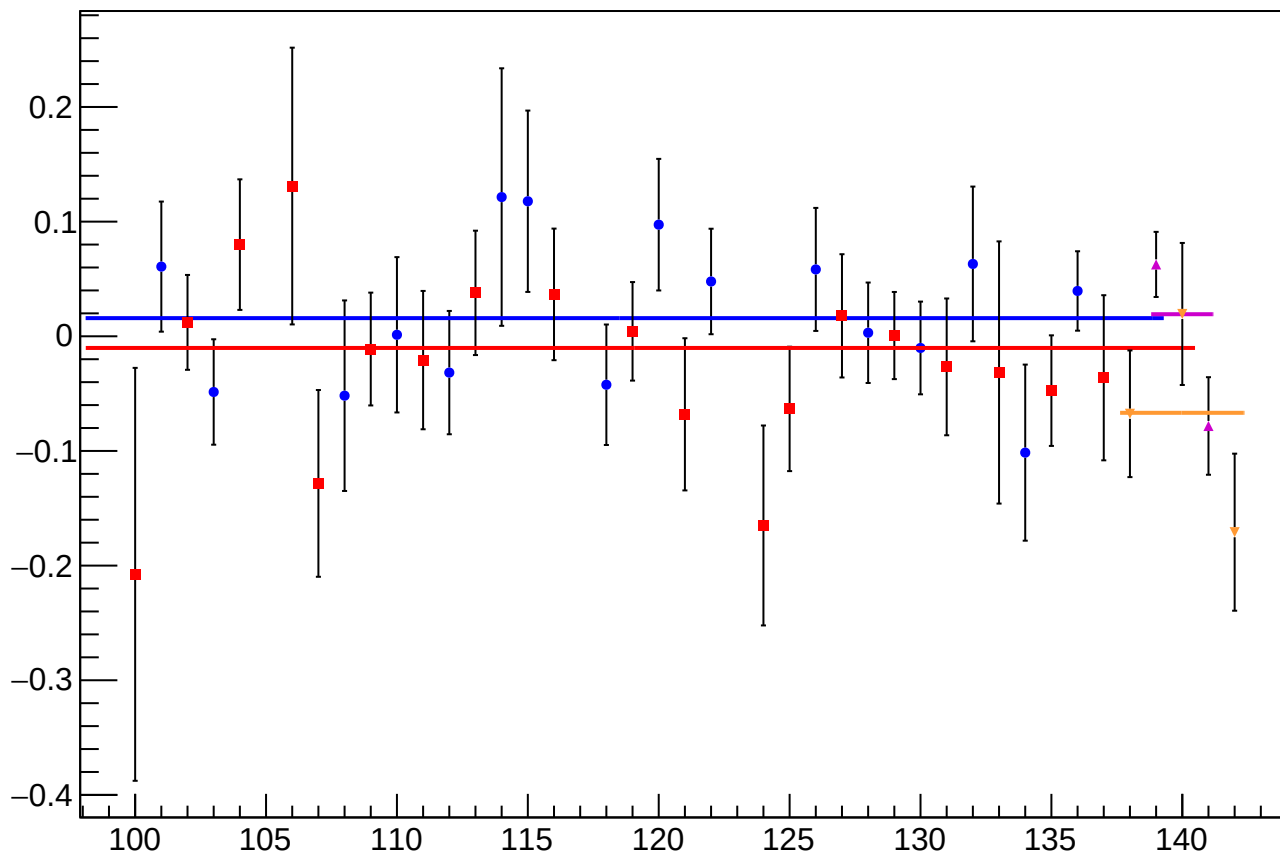
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 6466308.5/34

In: 0.002 $\pm$ 0.000 χ^2 /NDF:2843712.6/17

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:4267251.0/21

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 7306849.4/39

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.013 χ^2 /NDF: 14.8/15

Left Out: -0.067 $\pm$ 0.035 χ^2 /NDF:4.2/2

Right Out: -0.010 $\pm$ 0.013 χ^2 /NDF: 15.1/18

Left In: 0.019 $\pm$ 0.024 χ^2 /NDF:7.6/1

Left: -0.007 $\pm$ 0.020 χ^2 /NDF: 15.9/4

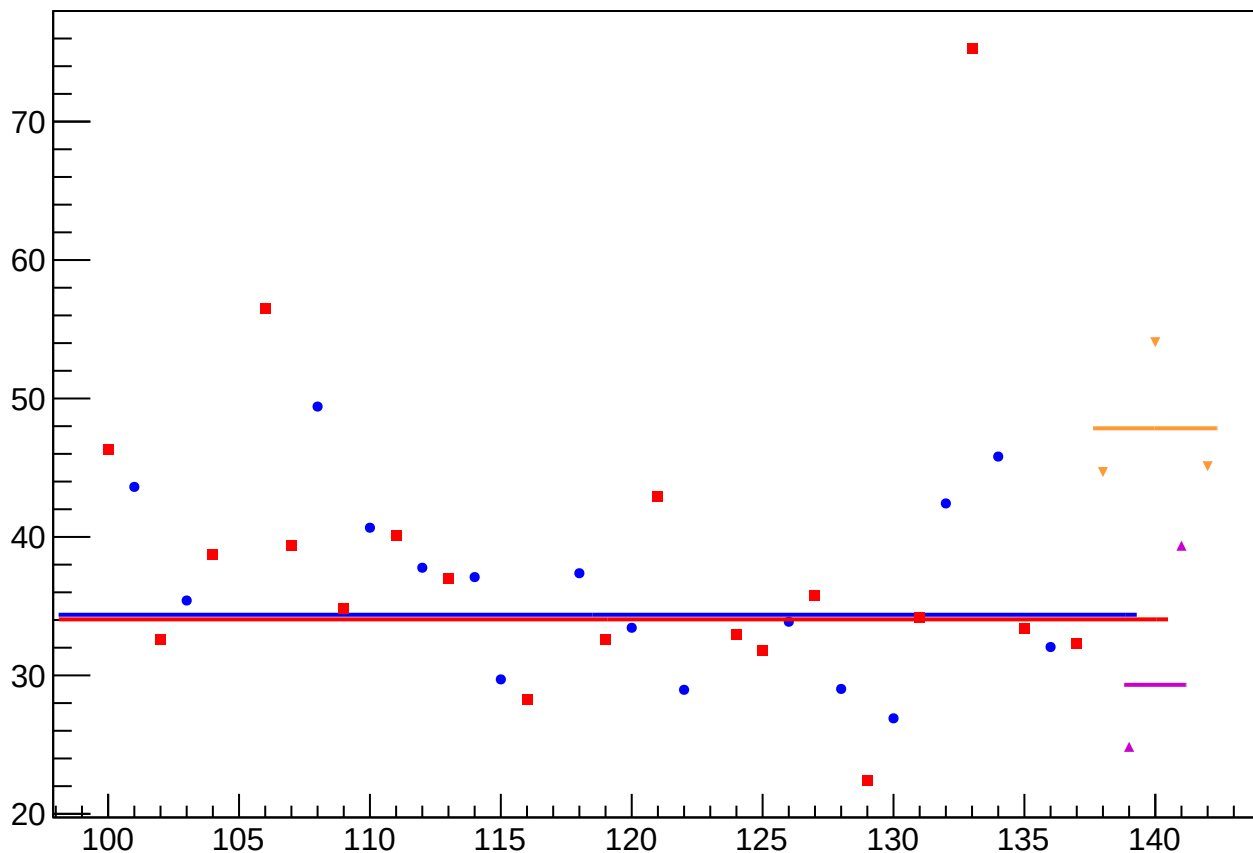
Right: 0.003 $\pm$ 0.009 χ^2 /NDF: 31.8/34

In: 0.017 $\pm$ 0.012 χ^2 /NDF:22.4/17

Out: -0.017 $\pm$ 0.012 χ^2 /NDF:21.6/21

All: 0.001 $\pm$ 0.008 χ^2 /NDF: 47.9/39

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.381+/-0.009 χ^2/NDF : 367940.1/15

Left Out: 47.846+/-0.025 χ^2/NDF : 29904.8/2

Right Out: 34.047+/-0.009 χ^2/NDF : 642741.5/18

Left In: 29.319+/-0.017 χ^2/NDF : 161266.8/1

Left: 35.044+/-0.014 χ^2/NDF : 571387.6/4

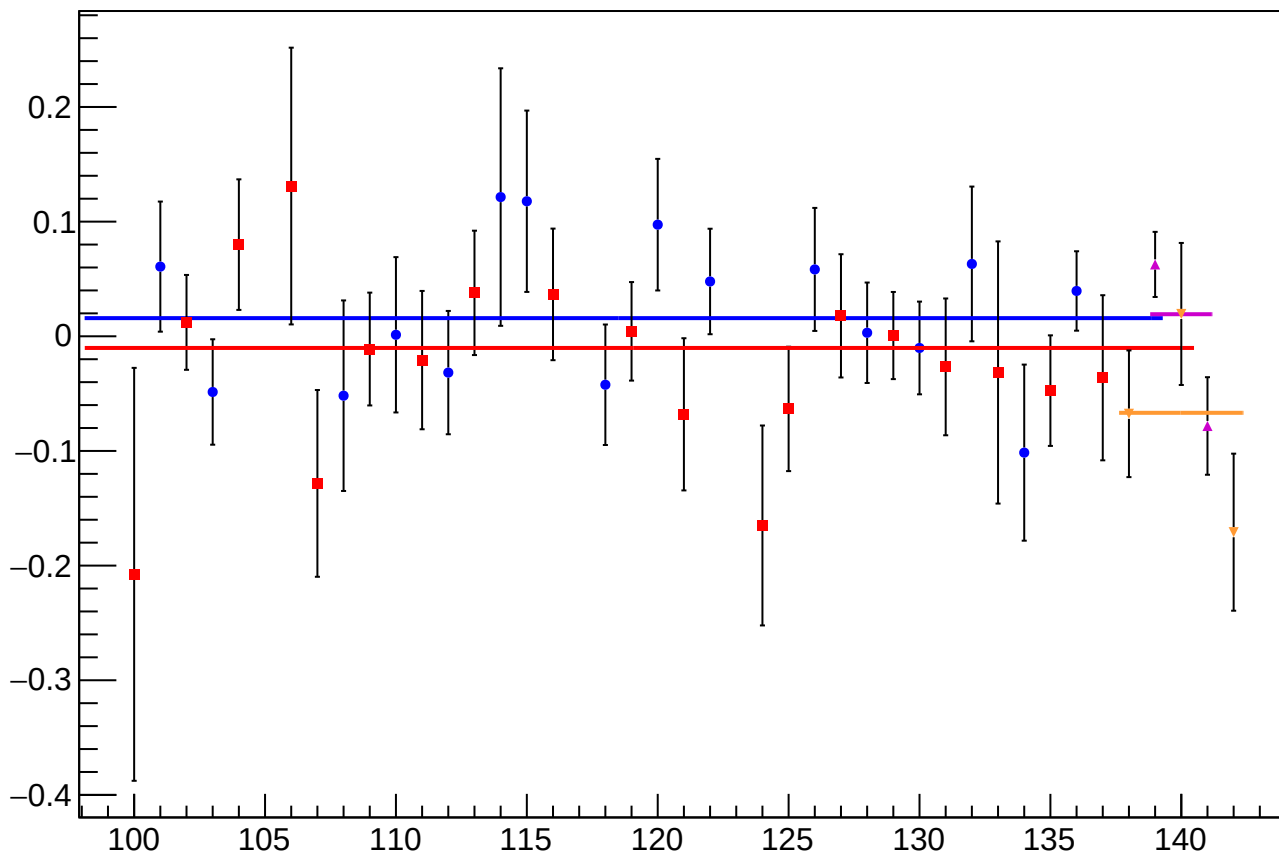
Right: 34.212+/-0.007 χ^2/NDF : 1011312.9/34

In: 33.149+/-0.008 χ^2/NDF : 598702.8/17

Out: 35.740+/-0.009 χ^2/NDF : 940459.6/21

All: 34.367+/-0.006 χ^2/NDF : 1585625.1/39

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.013 χ^2 /NDF: 14.8/15

Left Out: -0.067 $\pm$ 0.035 χ^2 /NDF:4.2/2

Right Out: -0.010 $\pm$ 0.013 χ^2 /NDF: 15.1/18

Left In: 0.019 $\pm$ 0.024 χ^2 /NDF:7.6/1

Left: -0.007 $\pm$ 0.020 χ^2 /NDF: 15.9/4

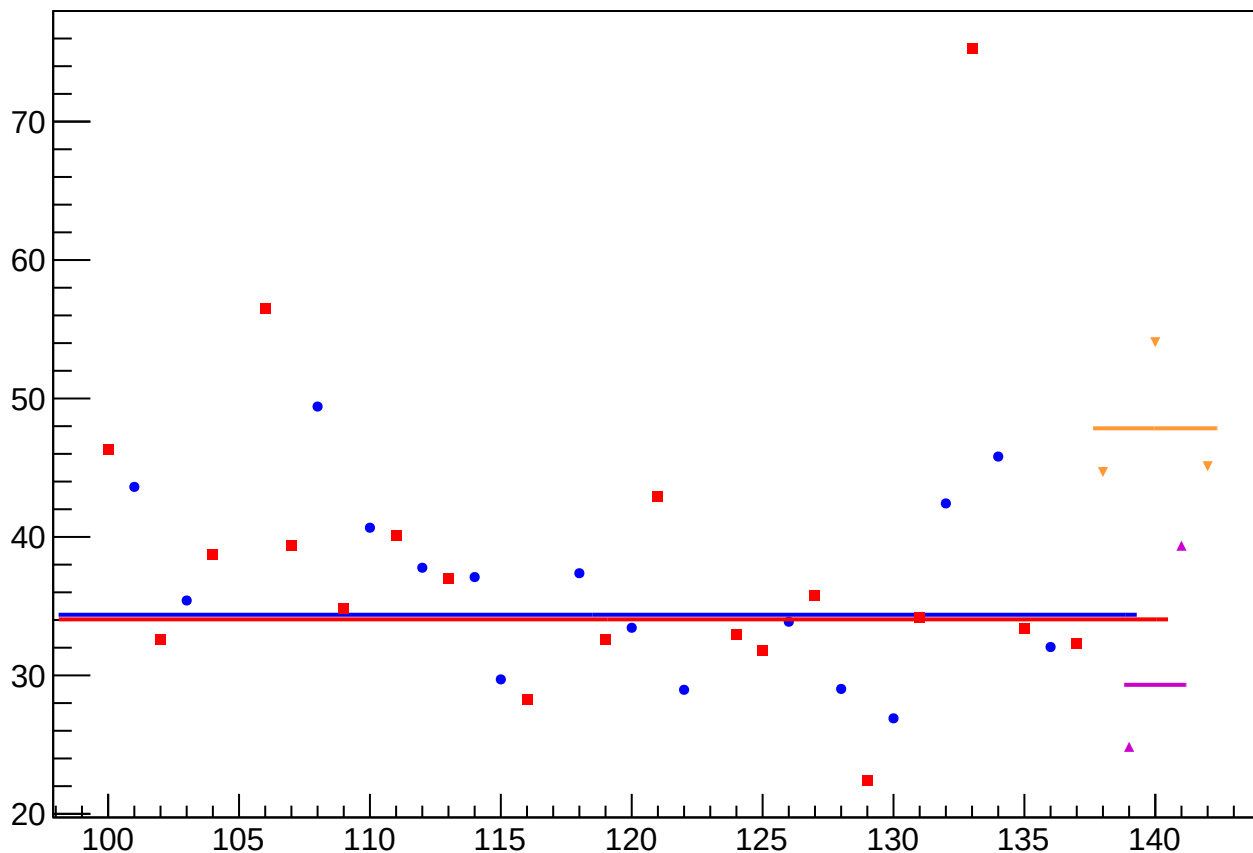
Right: 0.003 $\pm$ 0.009 χ^2 /NDF: 31.8/34

In: 0.017 $\pm$ 0.012 χ^2 /NDF:22.4/17

Out: -0.017 $\pm$ 0.012 χ^2 /NDF:21.6/21

All: 0.001 $\pm$ 0.008 χ^2 /NDF: 47.9/39

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.381+/-0.009 χ^2/NDF : 367940.1/15

Left Out: 47.846+/-0.025 χ^2/NDF : 29904.8/2

Right Out: 34.047+/-0.009 χ^2/NDF : 642741.5/18

Left In: 29.319+/-0.017 χ^2/NDF : 161266.8/1

Left: 35.044+/-0.014 χ^2/NDF : 571387.6/4

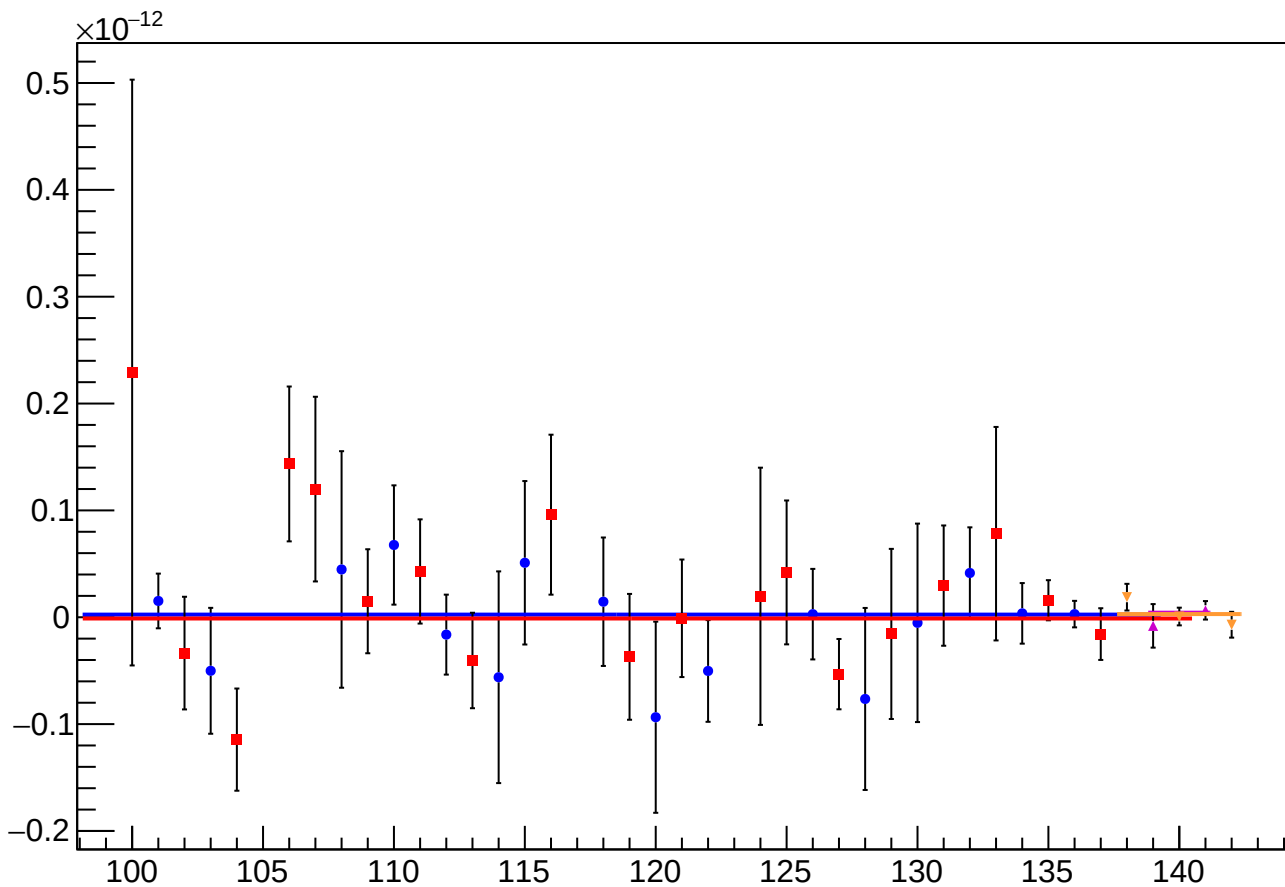
Right: 34.212+/-0.007 χ^2/NDF : 1011312.9/34

In: 33.149+/-0.008 χ^2/NDF : 598702.8/17

Out: 35.740+/-0.009 χ^2/NDF : 940459.6/21

All: 34.367+/-0.006 χ^2/NDF : 1585625.1/39

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 7.7/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:2.4/2

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 21.5/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.4/1

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 2.8/4

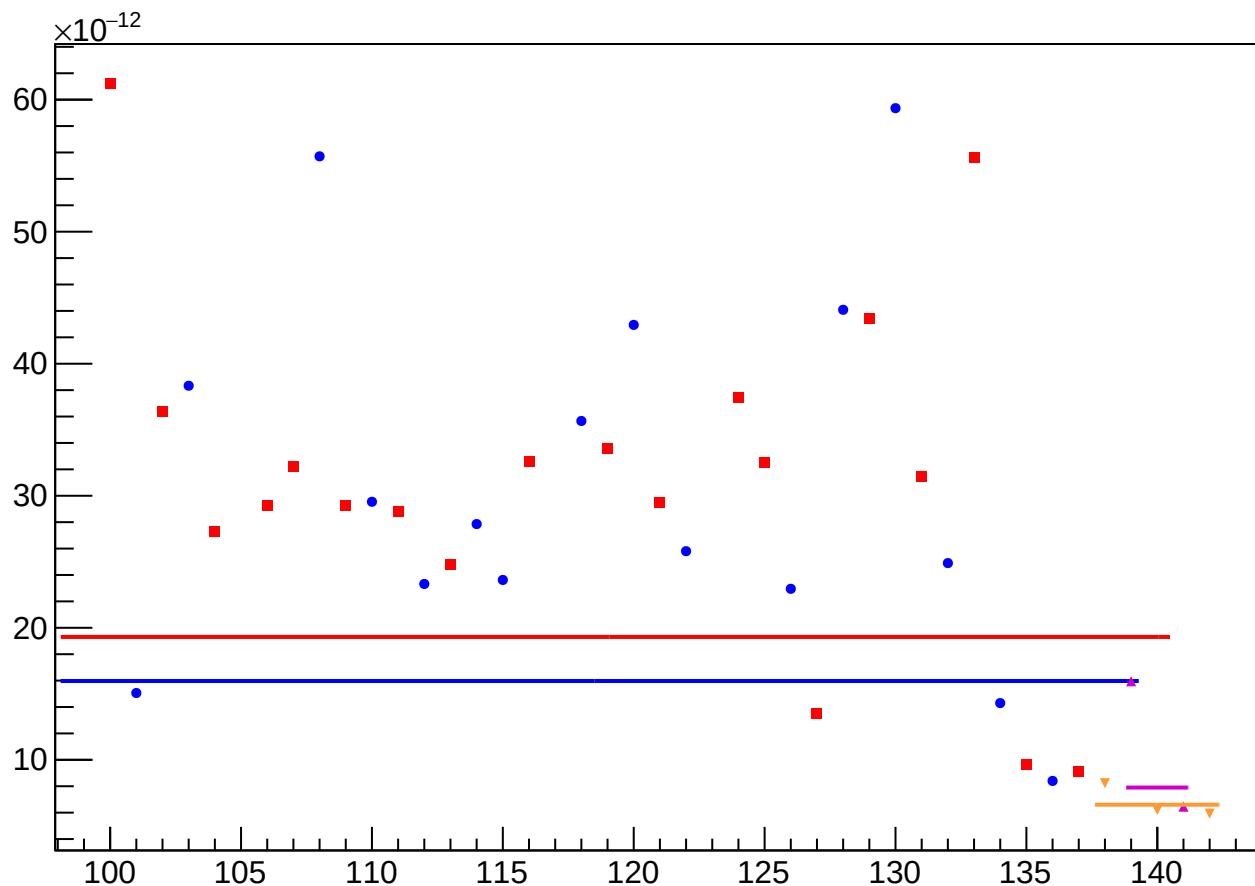
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 29.3/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:8.1/17

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:24.0/21

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 32.2/39

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2822278.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 45046.7/2

Right Out: 0.000+/-0.000 χ^2/NDF : 2440768.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 368453.8/1

Left: 0.000+/-0.000 χ^2/NDF : 447596.9/4

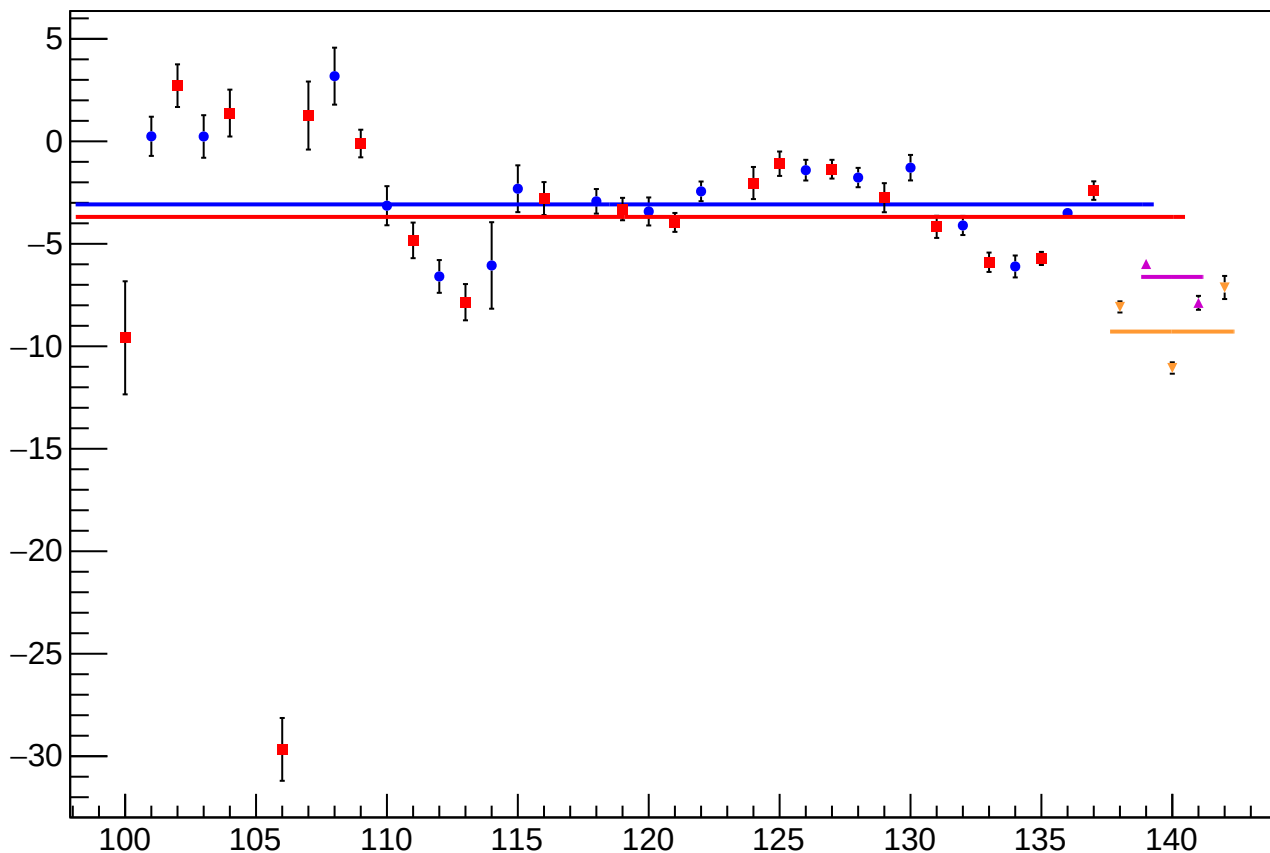
Right: 0.000+/-0.000 χ^2/NDF : 5386653.4/34

In: 0.000+/-0.000 χ^2/NDF : 4125509.0/17

Out: 0.000+/-0.000 χ^2/NDF : 4792825.6/21

All: 0.000+/-0.000 χ^2/NDF : 9013932.8/39

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.077 ± 0.135 $\chi^2/\text{NDF}: 133.8/15$

Left Out: -9.282 ± 0.184 $\chi^2/\text{NDF}: 75.2/2$

Right Out: -3.687 ± 0.140 $\chi^2/\text{NDF}: 534.8/18$

Left In: -6.614 ± 0.196 $\chi^2/\text{NDF}: 20.8/1$

Left: -8.035 ± 0.134 $\chi^2/\text{NDF}: 194.5/4$

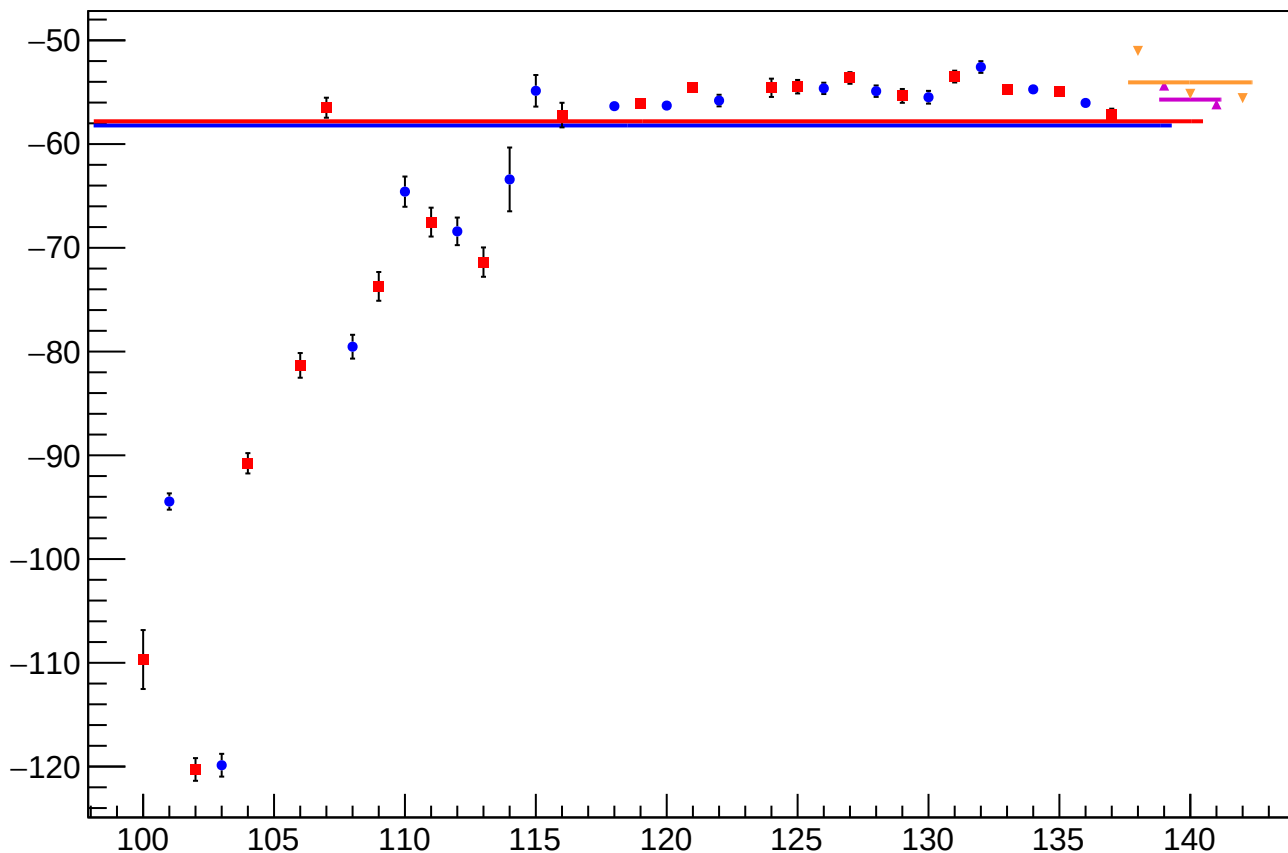
Right: -3.371 ± 0.097 $\chi^2/\text{NDF}: 678.4/34$

In: -4.217 ± 0.111 $\chi^2/\text{NDF}: 375.2/17$

Out: -5.748 ± 0.111 $\chi^2/\text{NDF}: 1196.6/21$

All: -4.982 ± 0.079 $\chi^2/\text{NDF}: 1666.2/39$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.204 ± 0.136 $\chi^2/\text{NDF}: 6126.9/15$

Left Out: -54.053 ± 0.168 $\chi^2/\text{NDF}: 132.5/2$

Right Out: -57.804 ± 0.138 $\chi^2/\text{NDF}: 5792.7/18$

Left In: -55.712 ± 0.217 $\chi^2/\text{NDF}: 13.1/1$

Left: -54.673 ± 0.133 $\chi^2/\text{NDF}: 182.0/4$

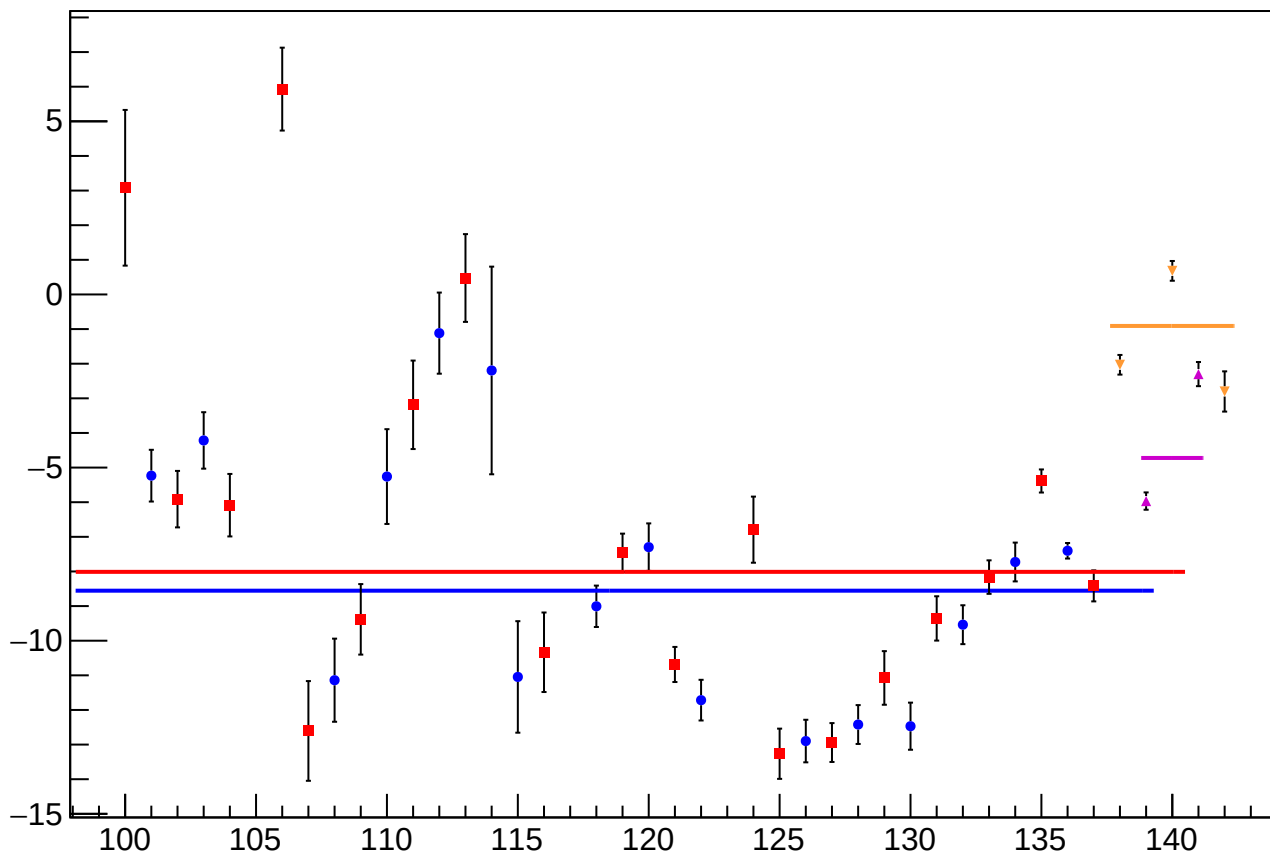
Right: -58.008 ± 0.097 $\chi^2/\text{NDF}: 11923.9/34$

In: -57.507 ± 0.115 $\chi^2/\text{NDF}: 6234.6/17$

Out: -56.285 ± 0.107 $\chi^2/\text{NDF}: 6222.3/21$

All: -56.851 ± 0.078 $\chi^2/\text{NDF}: 12517.5/39$

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -8.555 ± 0.145 χ^2/NDF : 300.7/15

Left Out: -0.909 ± 0.190 χ^2/NDF : 57.2/2

Right Out: -8.011 ± 0.153 χ^2/NDF : 489.3/18

Left In: -4.722 ± 0.203 χ^2/NDF : 73.0/1

Left: -2.690 ± 0.139 χ^2/NDF : 317.8/4

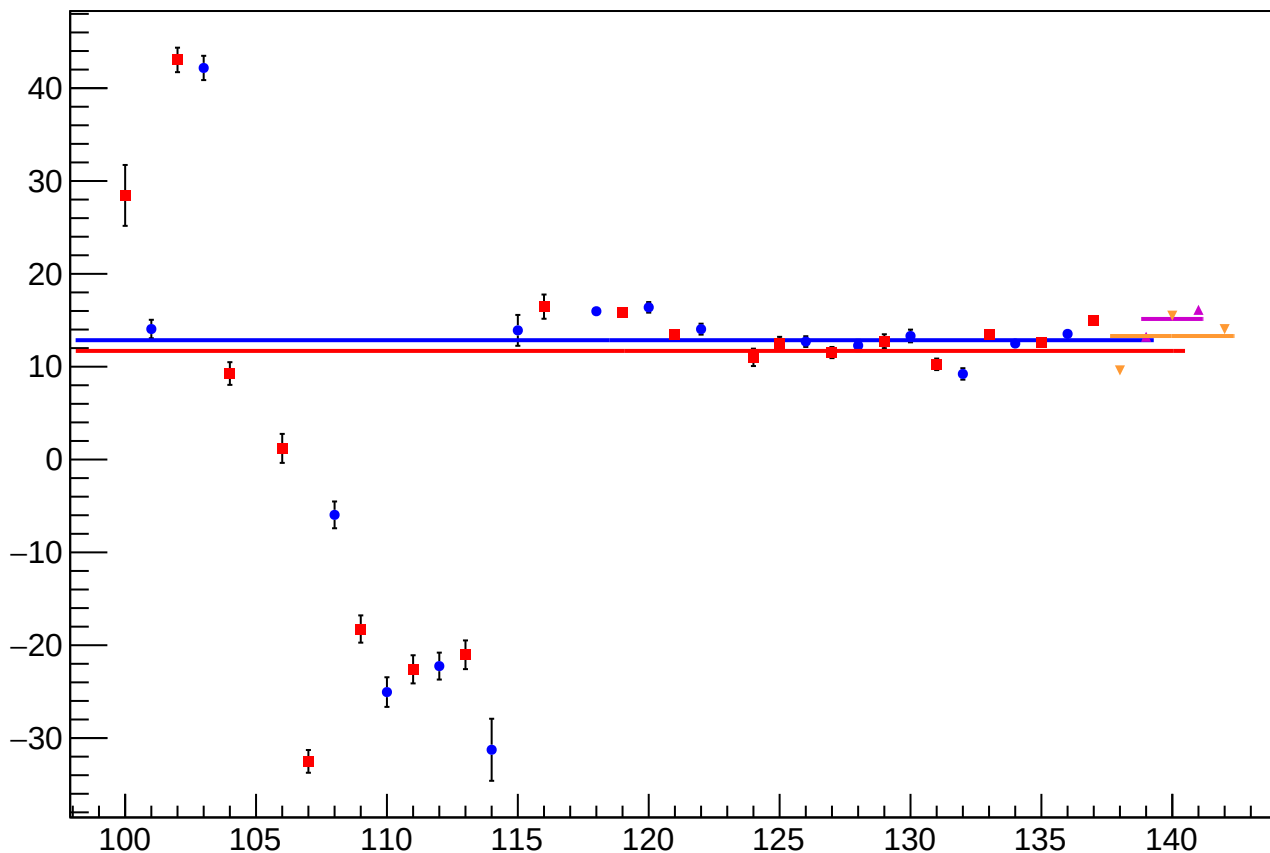
Right: -8.298 ± 0.105 χ^2/NDF : 796.7/34

In: -7.266 ± 0.118 χ^2/NDF : 609.7/17

Out: -5.224 ± 0.119 χ^2/NDF : 1392.9/21

All: -6.256 ± 0.084 χ^2/NDF : 2151.0/39

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.853+/-0.150 χ^2/NDF : 2128.4/15

Left Out: 13.303+/-0.195 χ^2/NDF :180.2/2

Right Out: 11.699+/-0.155 χ^2/NDF : 3498.8/18

Left In: 15.142+/-0.242 χ^2/NDF :32.2/1

Left: 14.029+/-0.152 χ^2/NDF : 247.4/4

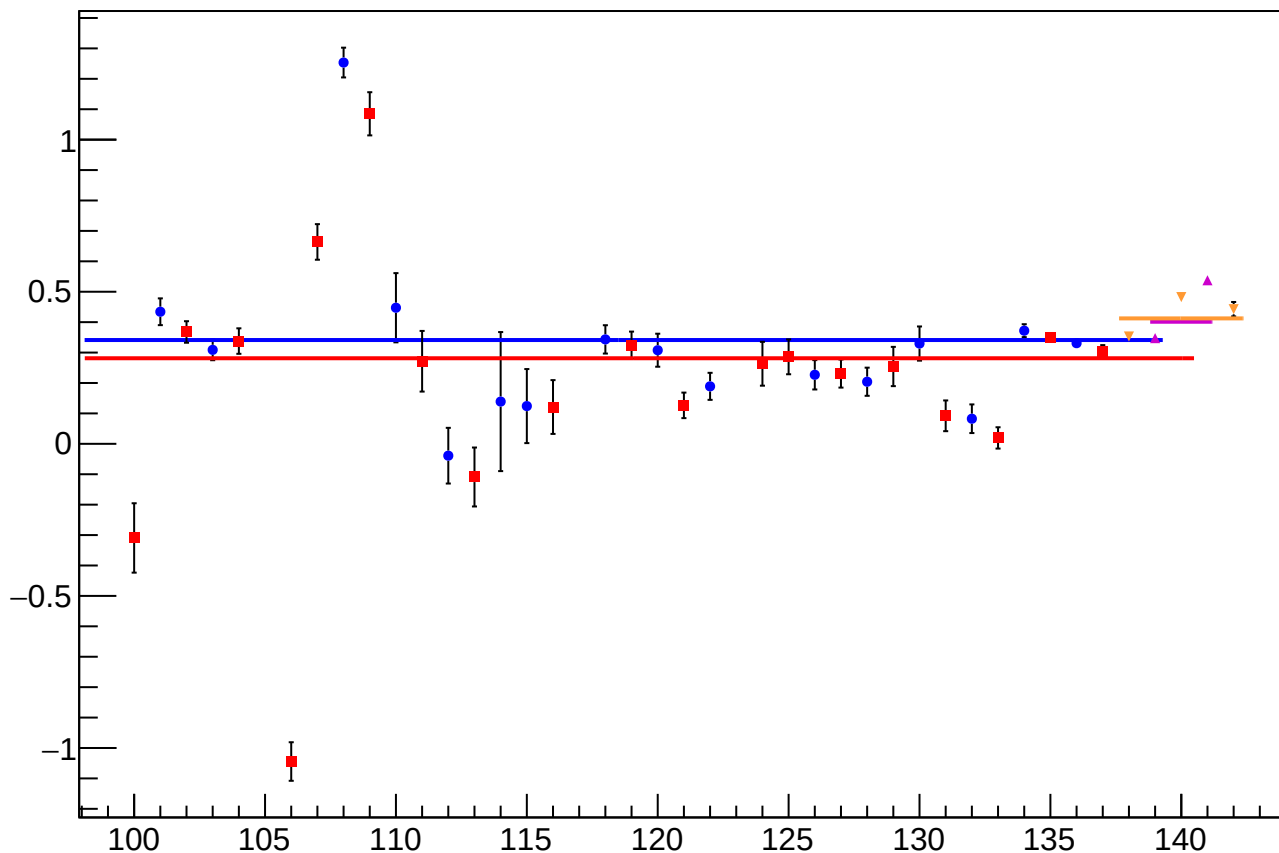
Right: 12.294+/-0.108 χ^2/NDF : 5655.7/34

In: 13.491+/-0.128 χ^2/NDF :2225.3/17

Out: 12.320+/-0.121 χ^2/NDF :3720.4/21

All: 12.876+/-0.088 χ^2/NDF : 5989.8/39

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.341 ± 0.008 χ^2/NDF : 434.8/15

Left Out: 0.412 ± 0.008 χ^2/NDF : 61.8/2

Right Out: 0.281 ± 0.008 χ^2/NDF : 777.6/18

Left In: 0.401 ± 0.008 χ^2/NDF : 128.8/1

Left: 0.407 ± 0.005 χ^2/NDF : 191.6/4

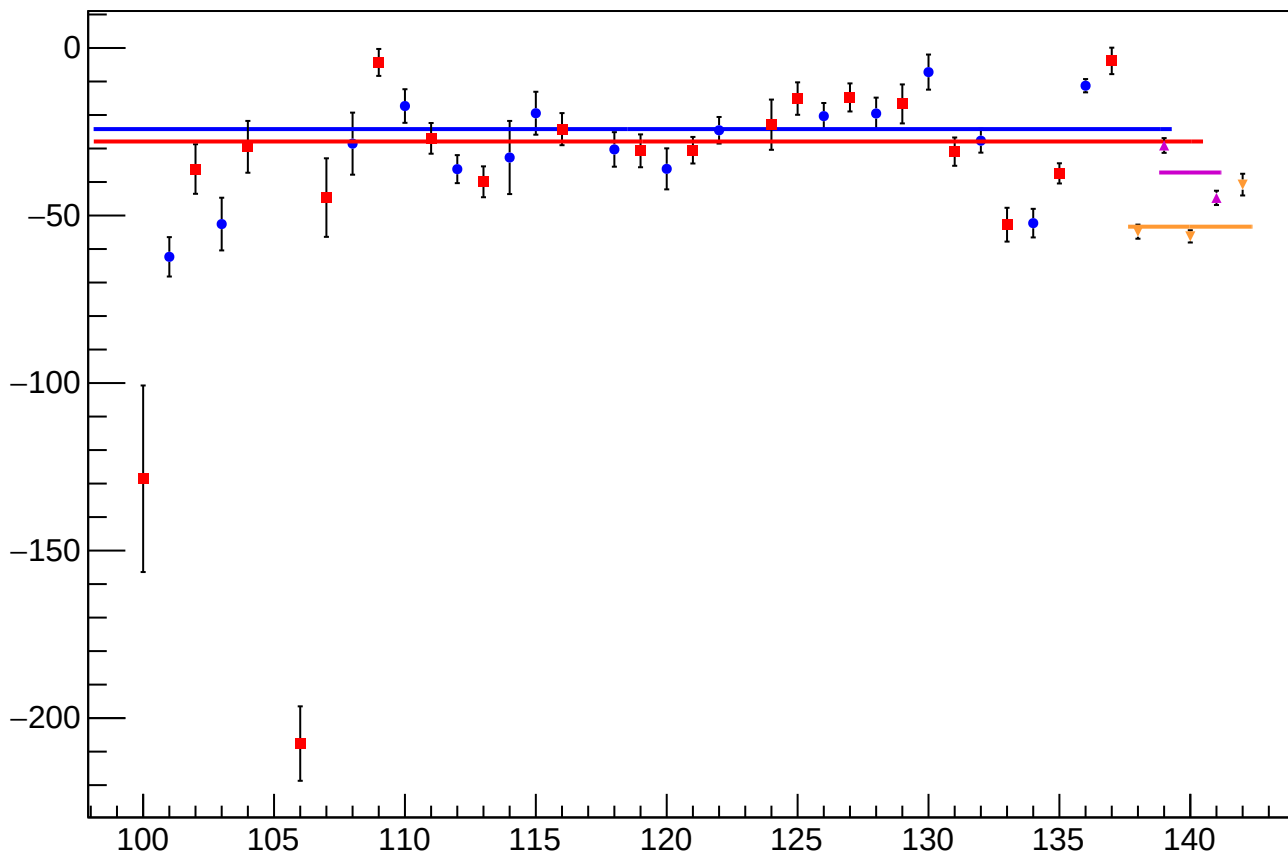
Right: 0.313 ± 0.006 χ^2/NDF : 1239.2/34

In: 0.373 ± 0.005 χ^2/NDF : 594.0/17

Out: 0.352 ± 0.006 χ^2/NDF : 968.6/21

All: 0.363 ± 0.004 χ^2/NDF : 1569.3/39

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -24.205 ± 1.086 $\chi^2/\text{NDF}: 170.7/15$

Left Out: -53.330 ± 1.272 $\chi^2/\text{NDF}: 18.0/2$

Right Out: -27.906 ± 1.137 $\chi^2/\text{NDF}: 413.4/18$

Left In: -37.165 ± 1.533 $\chi^2/\text{NDF}: 26.0/1$

Left: -46.737 ± 0.979 $\chi^2/\text{NDF}: 109.9/4$

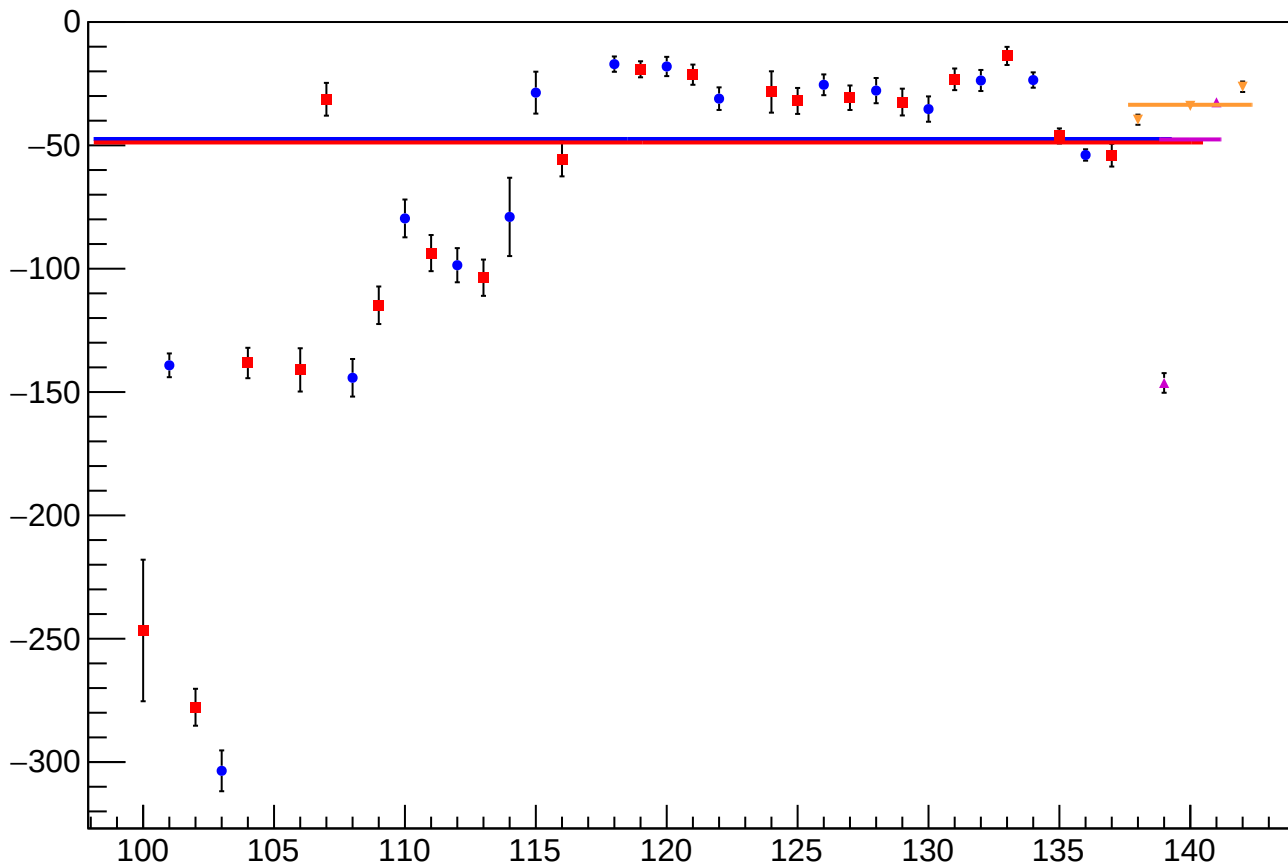
Right: -25.971 ± 0.785 $\chi^2/\text{NDF}: 589.7/34$

In: -28.538 ± 0.886 $\chi^2/\text{NDF}: 244.3/17$

Out: -39.197 ± 0.848 $\chi^2/\text{NDF}: 653.5/21$

All: -34.105 ± 0.613 $\chi^2/\text{NDF}: 973.3/39$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -47.421 ± 1.101 $\chi^2/\text{NDF}: 1873.5/15$

Left Out: -33.554 ± 1.060 $\chi^2/\text{NDF}: 20.6/2$

Right Out: -48.831 ± 1.182 $\chi^2/\text{NDF}: 1774.6/18$

Left In: -47.596 ± 1.450 $\chi^2/\text{NDF}: 707.1/1$

Left: -38.443 ± 0.855 $\chi^2/\text{NDF}: 788.9/4$

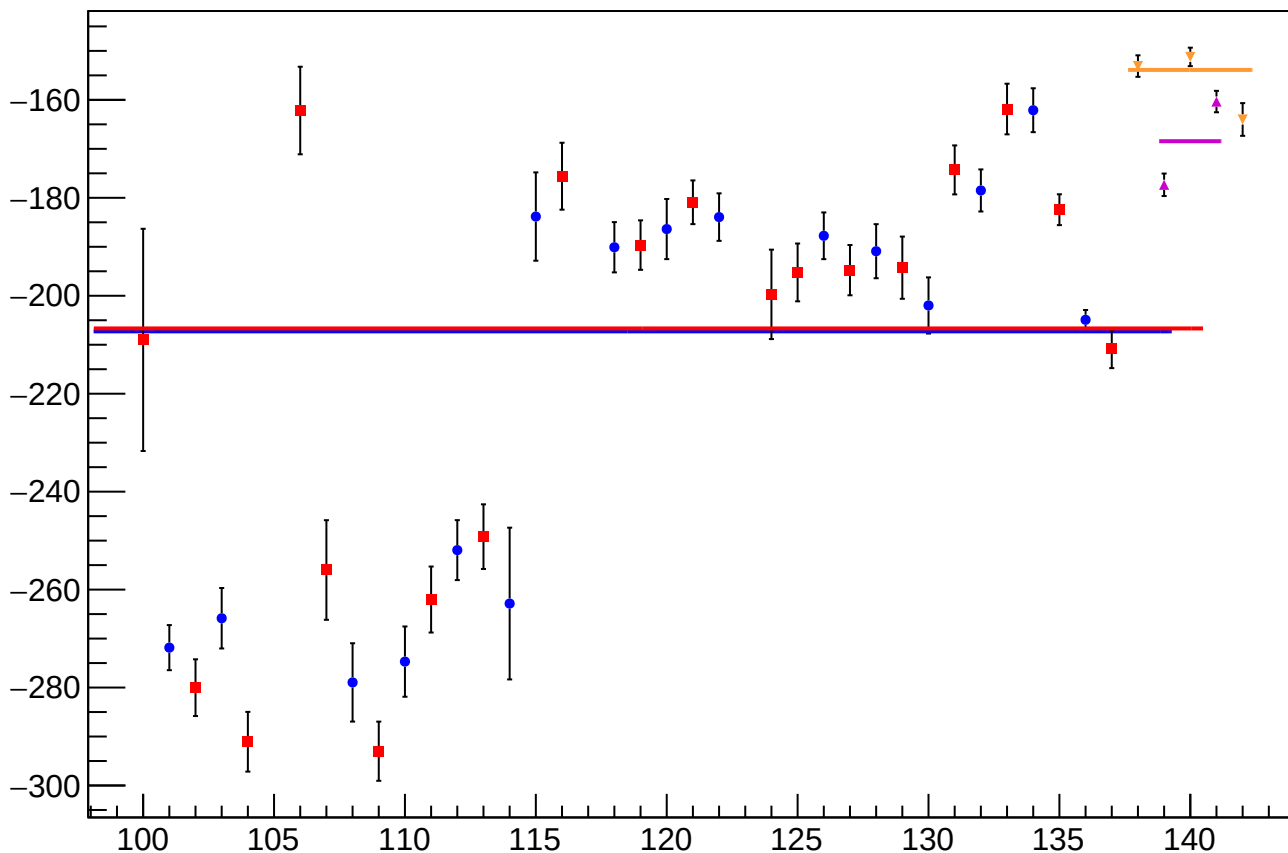
Right: -48.076 ± 0.806 $\chi^2/\text{NDF}: 3648.9/34$

In: -47.485 ± 0.877 $\chi^2/\text{NDF}: 2580.6/17$

Out: -40.357 ± 0.789 $\chi^2/\text{NDF}: 1887.8/21$

All: -43.547 ± 0.587 $\chi^2/\text{NDF}: 4504.9/39$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -207.266 $\pm$ 1.178 χ^2/NDF : 748.5/15

Left Out: -153.882 $\pm$ 1.315 χ^2/NDF : 11.3/2

Right Out: -206.673 $\pm$ 1.279 χ^2/NDF : 969.4/18

Left In: -168.441 $\pm$ 1.584 χ^2/NDF : 28.7/1

Left: -159.823 $\pm$ 1.012 χ^2/NDF : 90.0/4

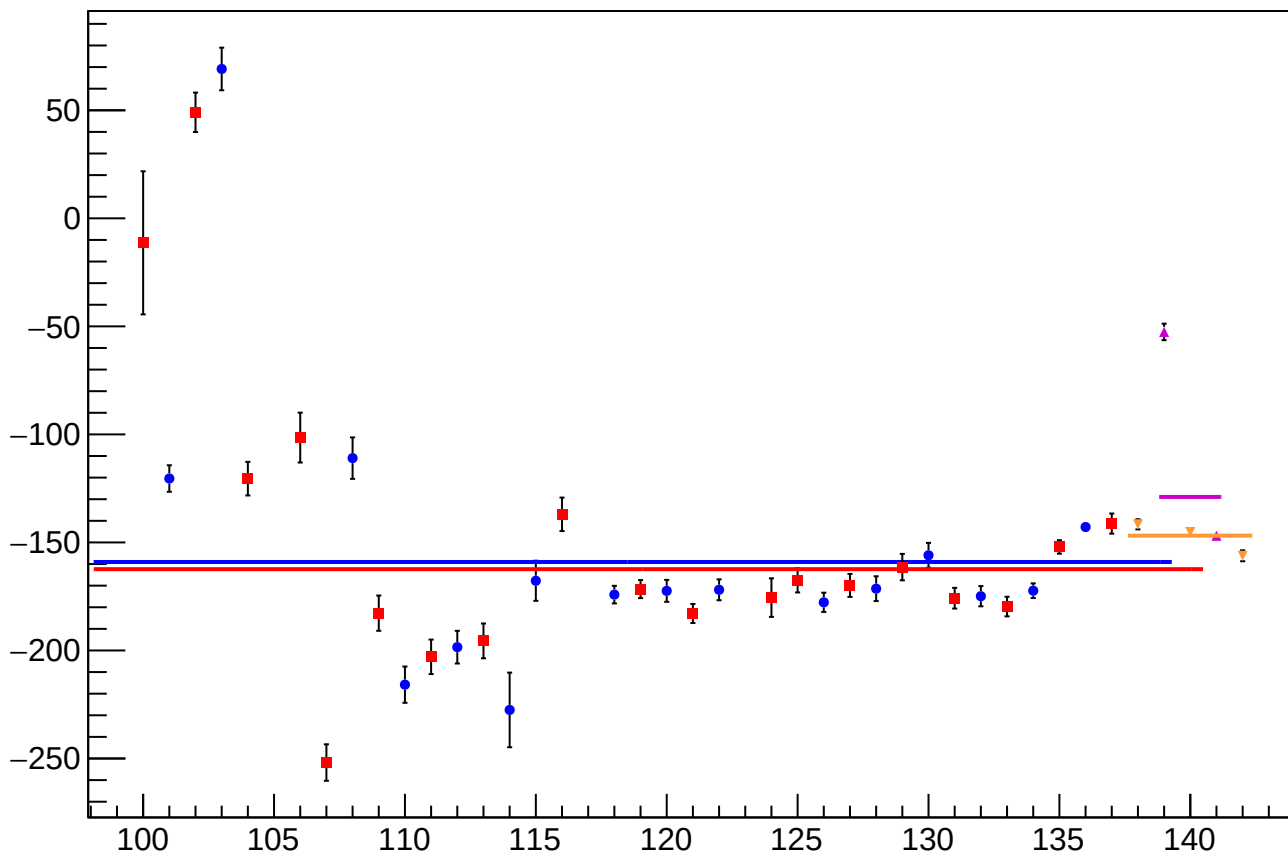
Right: -206.994 $\pm$ 0.867 χ^2/NDF : 1718.0/34

In: -193.437 $\pm$ 0.945 χ^2/NDF : 1163.9/17

Out: -181.009 $\pm$ 0.917 χ^2/NDF : 1808.3/21

All: -187.034 $\pm$ 0.658 χ^2/NDF : 3061.2/39

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -159.048 ± 1.225 χ^2/NDF : 815.8/15

Left Out: -146.858 ± 1.257 χ^2/NDF : 19.2/2

Right Out: -162.370 ± 1.324 χ^2/NDF : 872.6/18

Left In: -128.940 ± 1.668 χ^2/NDF : 492.9/1

Left: -140.371 ± 1.004 χ^2/NDF : 585.8/4

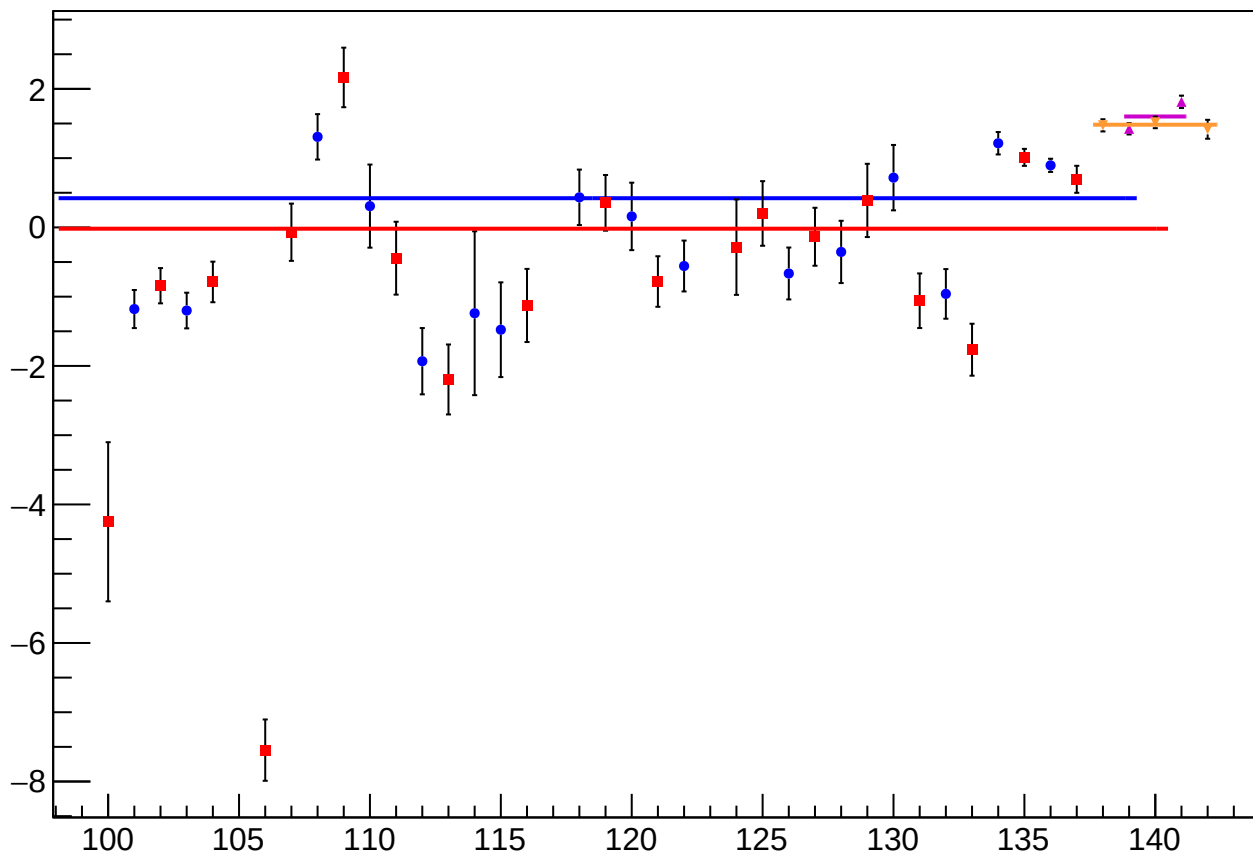
Right: -160.581 ± 0.899 χ^2/NDF : 1691.7/34

In: -148.495 ± 0.988 χ^2/NDF : 1520.3/17

Out: -154.208 ± 0.912 χ^2/NDF : 964.0/21

All: -151.580 ± 0.670 χ^2/NDF : 2502.4/39

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.421 ± 0.065 χ^2/NDF : 197.6/15

Left Out: 1.483 ± 0.056 χ^2/NDF : 0.4/2

Right Out: -0.019 ± 0.072 χ^2/NDF : 488.2/18

Left In: 1.601 ± 0.061 χ^2/NDF : 10.3/1

Left: 1.537 ± 0.041 χ^2/NDF : 12.8/4

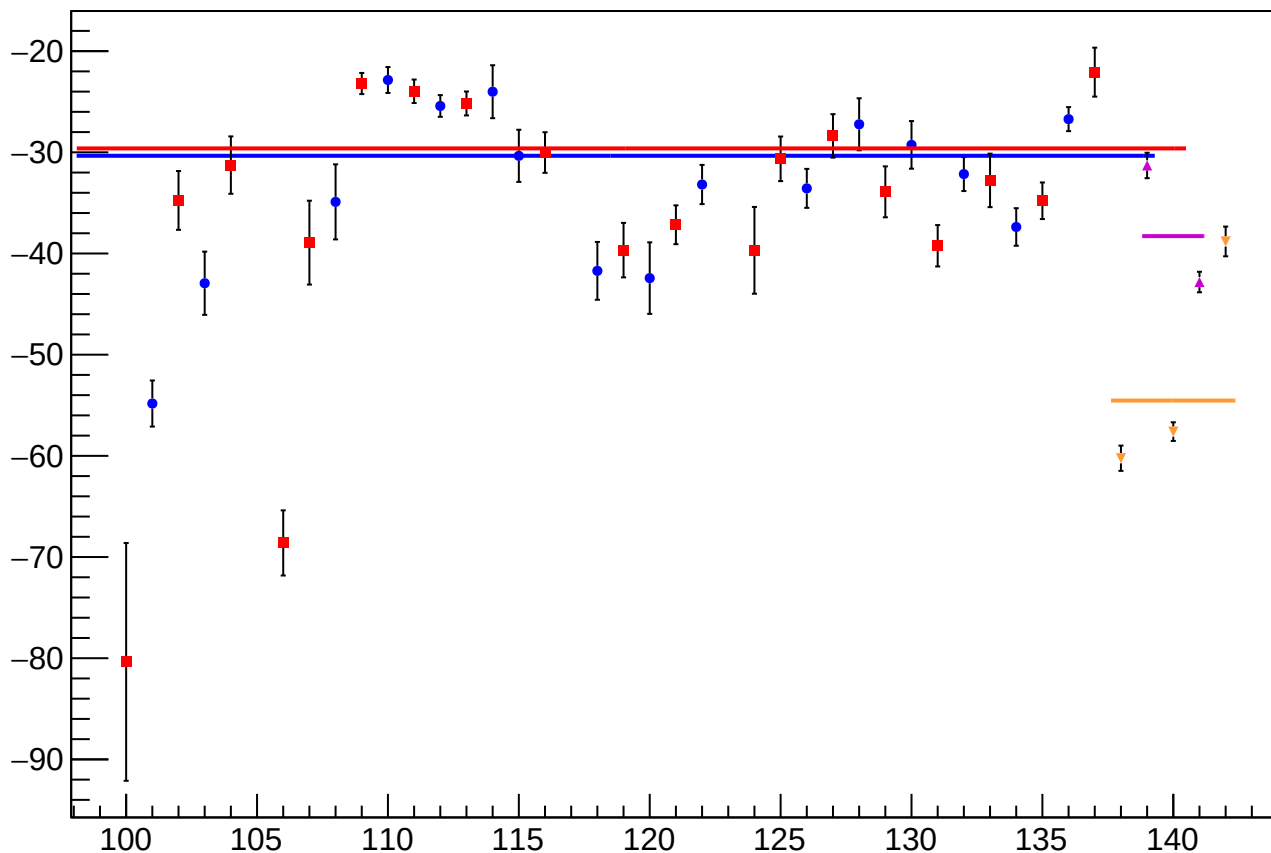
Right: 0.225 ± 0.048 χ^2/NDF : 706.4/34

In: 1.052 ± 0.044 χ^2/NDF : 385.0/17

Out: 0.926 ± 0.044 χ^2/NDF : 759.8/21

All: 0.989 ± 0.031 χ^2/NDF : 1148.9/39

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.341 ± 0.468 χ^2/NDF : 253.6/15

Left Out: -54.532 ± 0.662 χ^2/NDF : 146.6/2

Right Out: -29.613 ± 0.450 χ^2/NDF : 329.2/18

Left In: -38.281 ± 0.790 χ^2/NDF : 50.8/1

Left: -47.834 ± 0.507 χ^2/NDF : 446.1/4

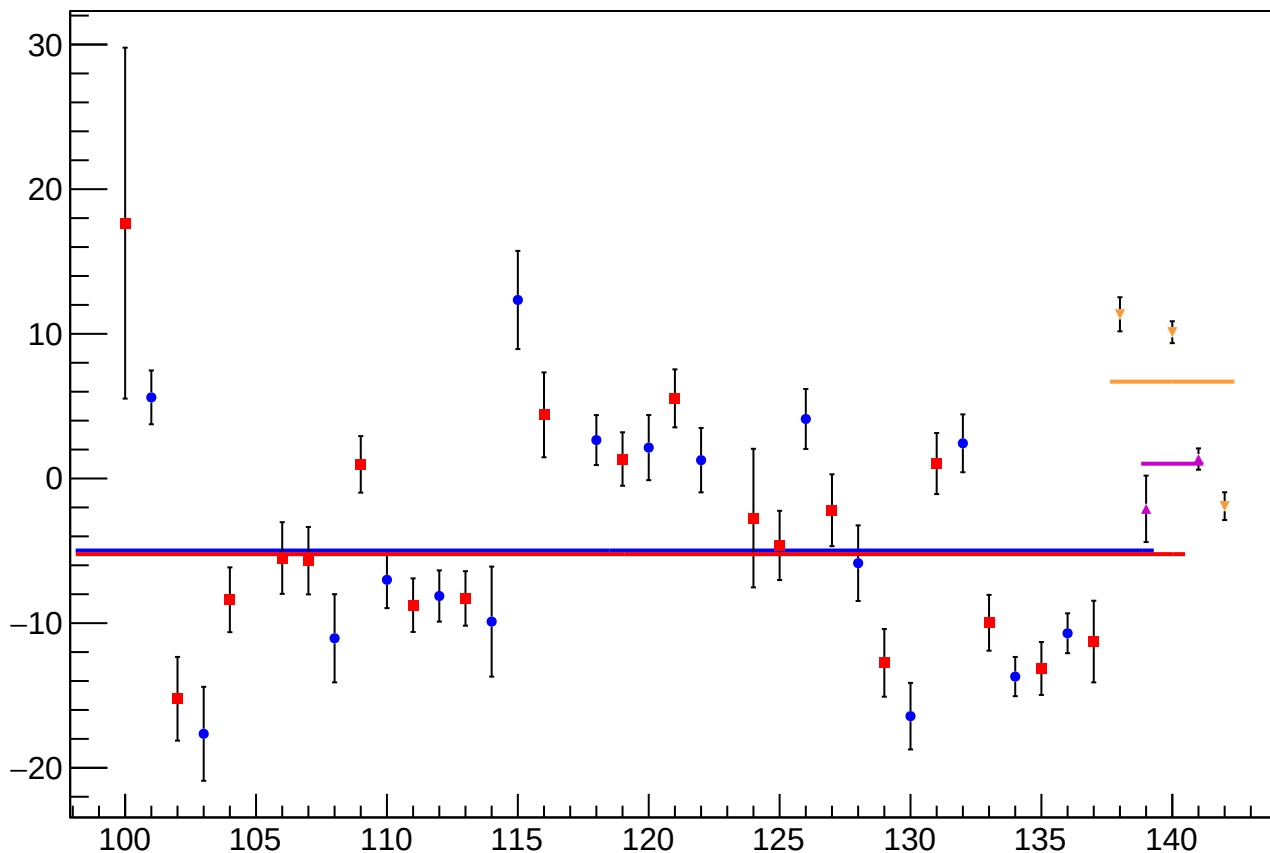
Right: -29.963 ± 0.324 χ^2/NDF : 584.0/34

In: -32.403 ± 0.403 χ^2/NDF : 379.1/17

Out: -37.506 ± 0.372 χ^2/NDF : 1445.2/21

All: -35.153 ± 0.273 χ^2/NDF : 1910.9/39

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.980 ± 0.510 χ^2/NDF : 237.3/15

Left Out: 6.697 ± 0.531 χ^2/NDF : 116.2/2

Right Out: -5.228 ± 0.524 χ^2/NDF : 136.5/18

Left In: 1.024 ± 0.701 χ^2/NDF : 2.0/1

Left: 4.629 ± 0.423 χ^2/NDF : 159.9/4

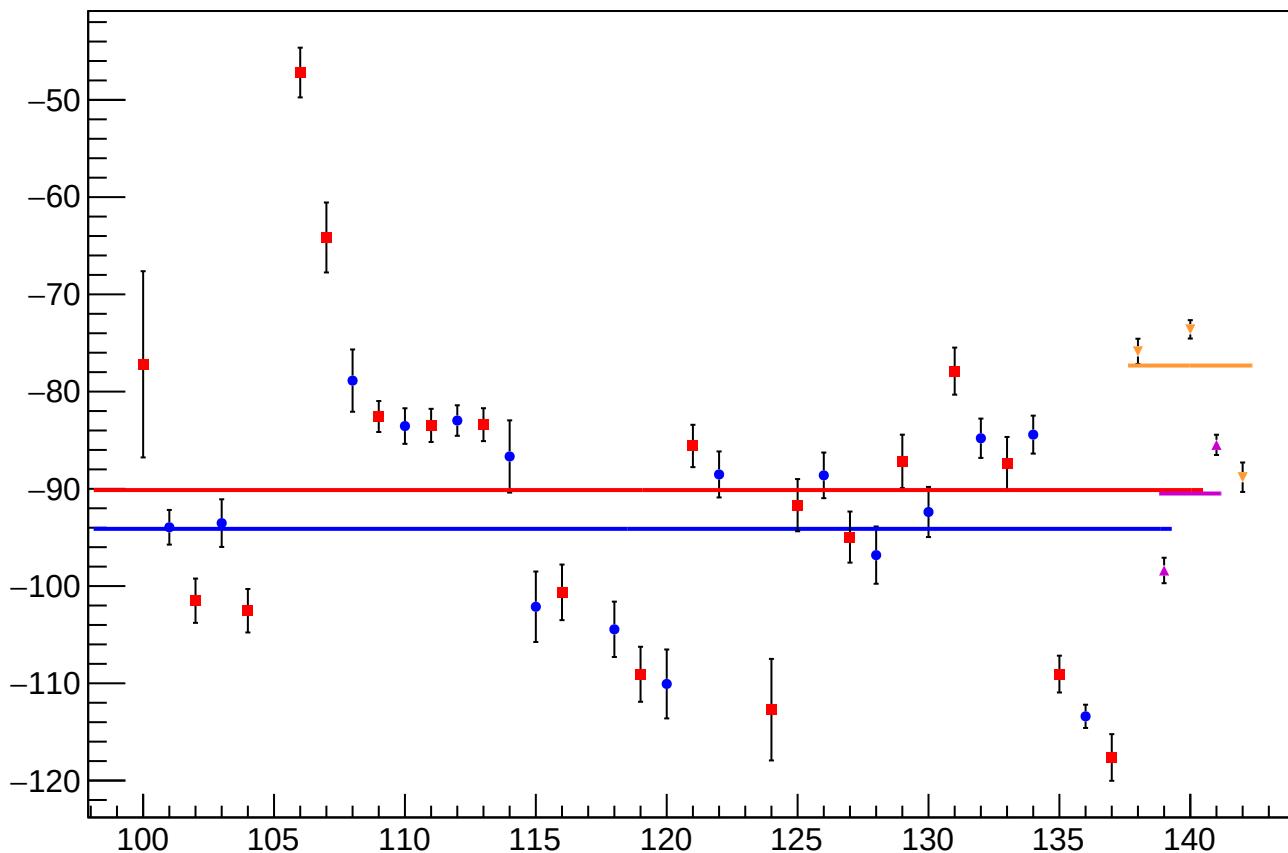
Right: -5.100 ± 0.365 χ^2/NDF : 373.9/34

In: -2.904 ± 0.412 χ^2/NDF : 287.3/17

Out: 0.653 ± 0.373 χ^2/NDF : 508.4/21

All: -0.948 ± 0.276 χ^2/NDF : 836.7/39

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -94.115 ± 0.537 χ^2/NDF : 466.8/15

Left Out: -77.319 ± 0.683 χ^2/NDF : 74.2/2

Right Out: -90.127 ± 0.543 χ^2/NDF : 789.3/18

Left In: -90.481 ± 0.815 χ^2/NDF : 59.6/1

Left: -82.752 ± 0.524 χ^2/NDF : 287.0/4

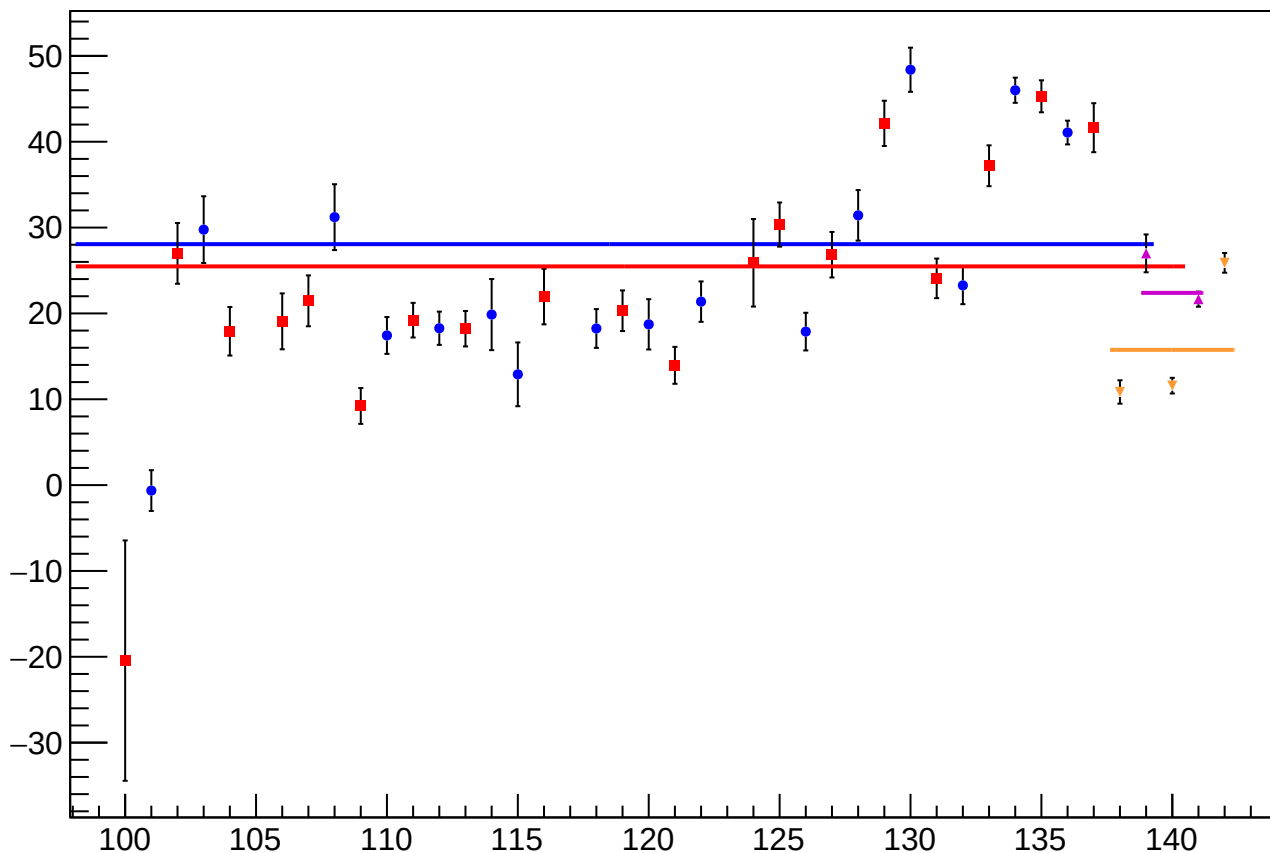
Right: -92.143 ± 0.382 χ^2/NDF : 1283.5/34

In: -93.015 ± 0.448 χ^2/NDF : 540.3/17

Out: -85.170 ± 0.425 χ^2/NDF : 1078.9/21

All: -88.883 ± 0.309 χ^2/NDF : 1780.5/39

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.068 $\pm$ 0.569 χ^2 /NDF: 583.1/15

Left Out: 15.756 $\pm$ 0.633 χ^2 /NDF:111.4/2

Right Out: 25.477 $\pm$ 0.590 χ^2 /NDF: 354.6/18

Left In: 22.392 $\pm$ 0.816 χ^2 /NDF:5.1/1

Left: 18.250 $\pm$ 0.500 χ^2 /NDF: 157.7/4

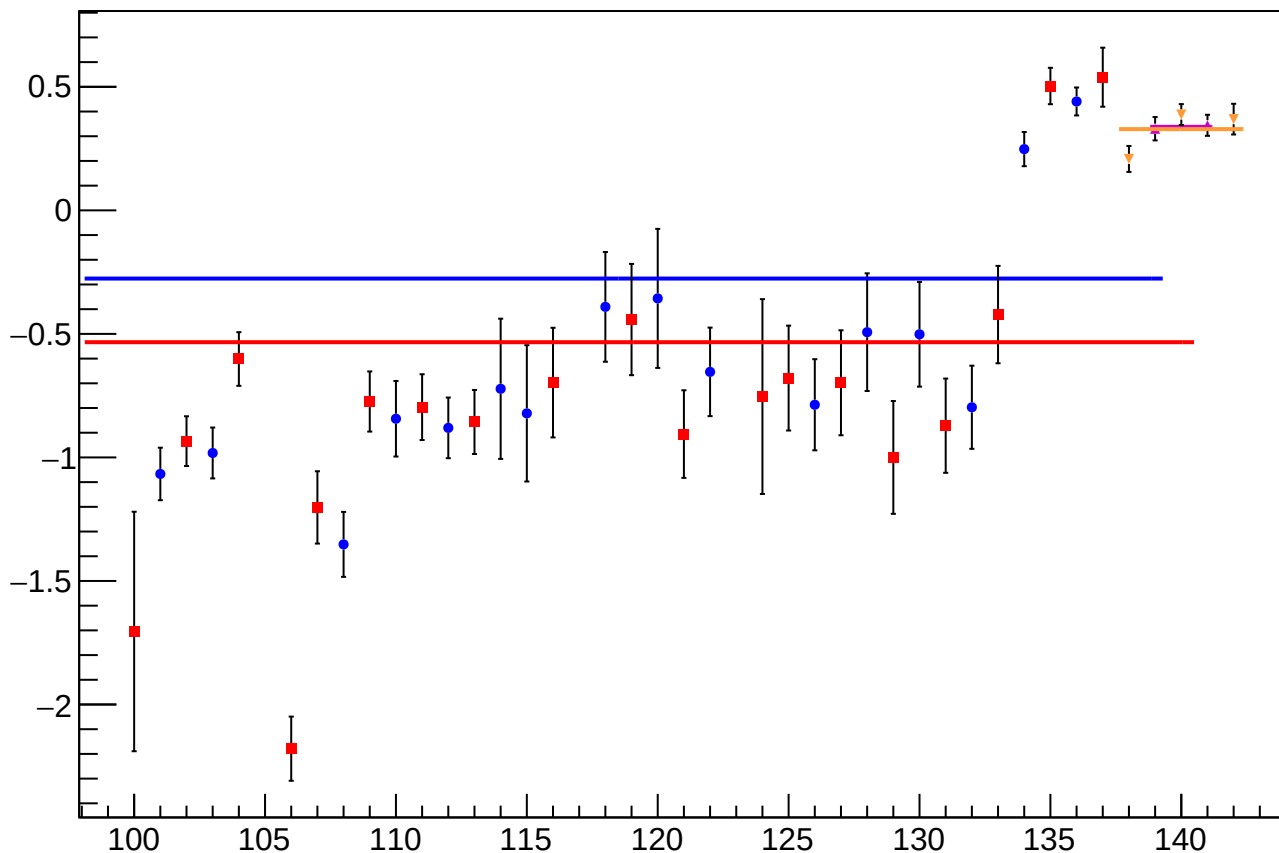
Right: 26.821 $\pm$ 0.410 χ^2 /NDF: 947.7/34

In: 26.212 $\pm$ 0.467 χ^2 /NDF:620.7/17

Out: 20.956 $\pm$ 0.432 χ^2 /NDF:592.1/21

All: 23.381 $\pm$ 0.317 χ^2 /NDF: 1281.2/39

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.276 ± 0.031 $\chi^2/\text{NDF}: 455.6/15$

Left Out: 0.329 ± 0.029 $\chi^2/\text{NDF}: 7.7/2$

Right Out: -0.534 ± 0.033 $\chi^2/\text{NDF}: 510.3/18$

Left In: 0.338 ± 0.032 $\chi^2/\text{NDF}: 0.0/1$

Left: 0.333 ± 0.021 $\chi^2/\text{NDF}: 7.7/4$

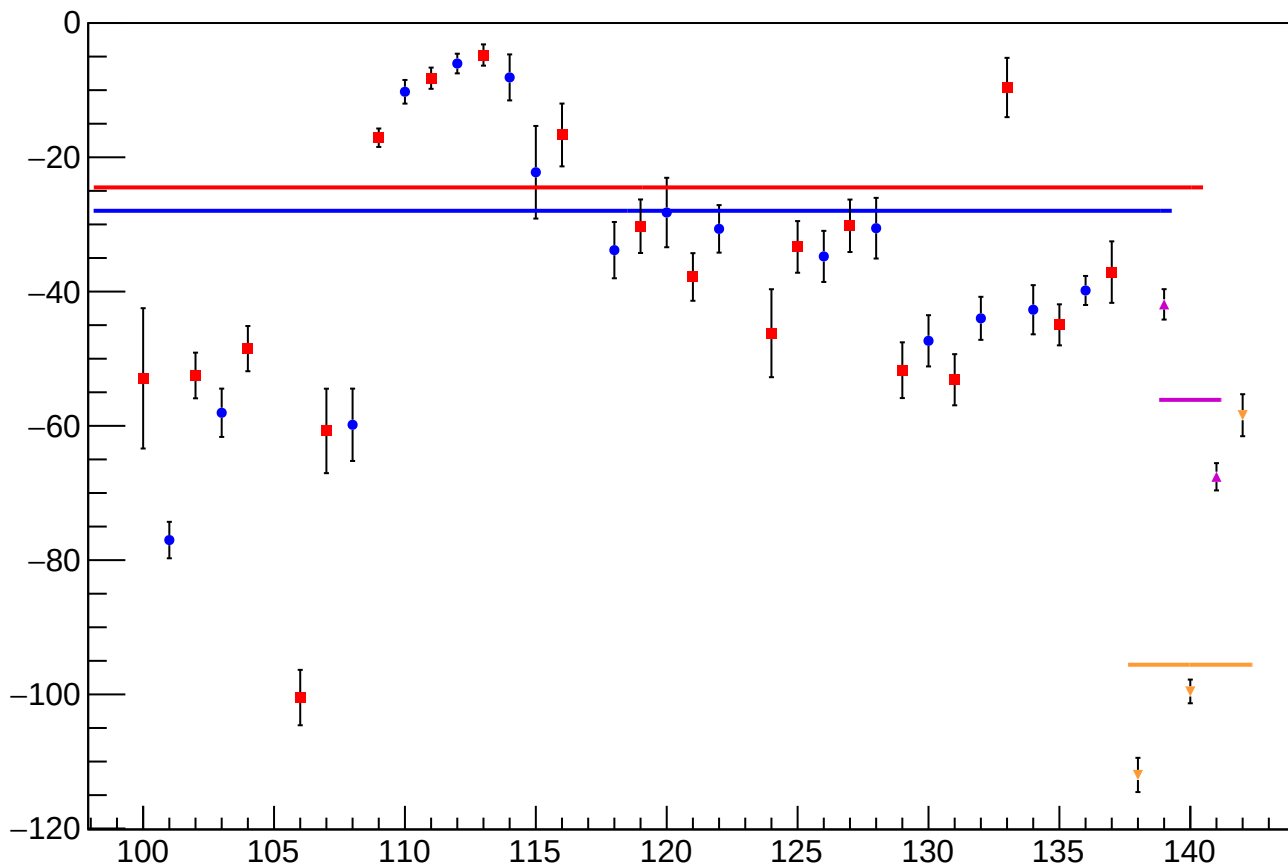
Right: -0.396 ± 0.022 $\chi^2/\text{NDF}: 998.8/34$

In: 0.021 ± 0.022 $\chi^2/\text{NDF}: 650.0/17$

Out: -0.050 ± 0.022 $\chi^2/\text{NDF}: 904.6/21$

All: -0.015 ± 0.015 $\chi^2/\text{NDF}: 1559.9/39$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -27.967 ± 0.728 χ^2/NDF : 894.7/15

Left Out: -95.579 ± 1.317 χ^2/NDF : 187.7/2

Right Out: -24.485 ± 0.663 χ^2/NDF : 989.7/18

Left In: -56.128 ± 1.512 χ^2/NDF : 71.3/1

Left: -78.565 ± 0.993 χ^2/NDF : 646.1/4

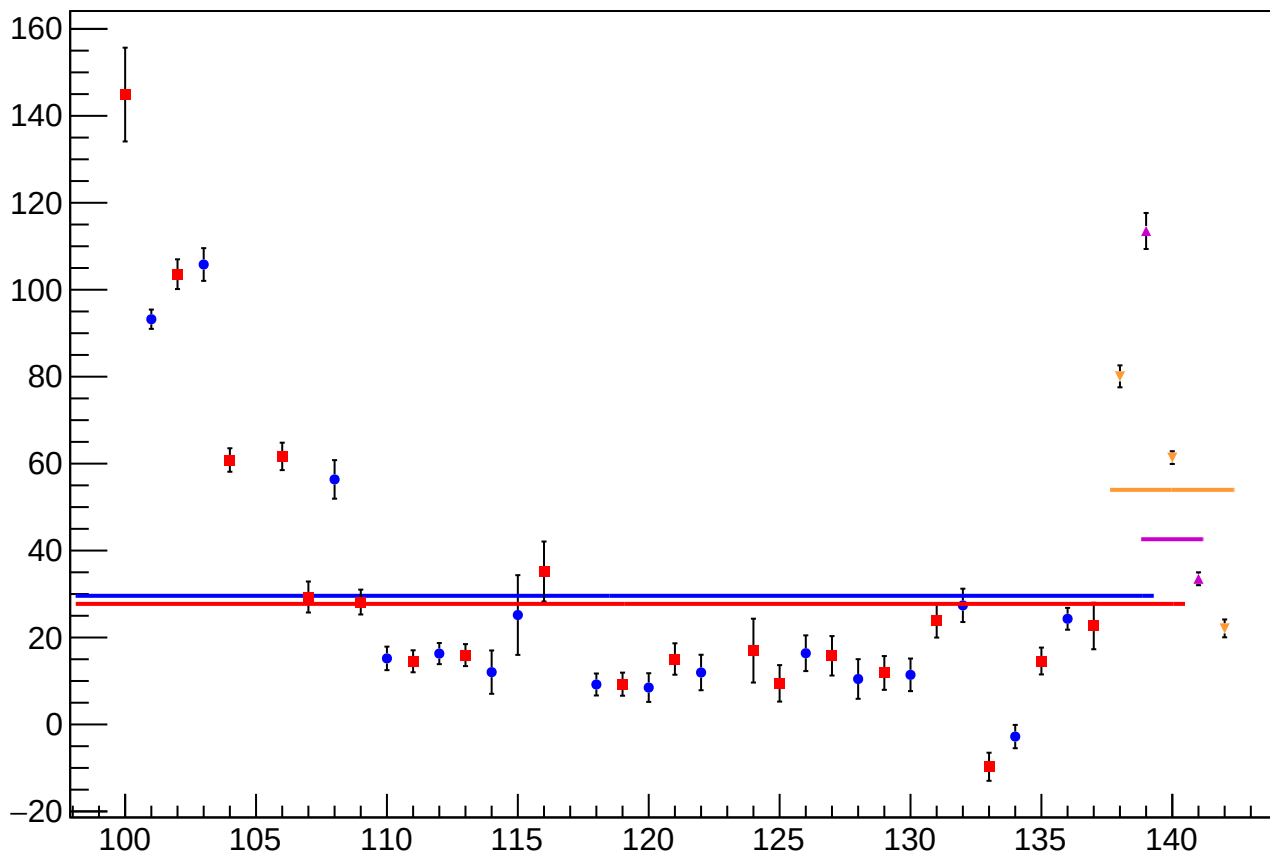
Right: -26.064 ± 0.490 χ^2/NDF : 1896.8/34

In: -33.262 ± 0.656 χ^2/NDF : 1247.5/17

Out: -38.859 ± 0.592 χ^2/NDF : 3503.3/21

All: -36.345 ± 0.439 χ^2/NDF : 4791.0/39

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 29.594 $\pm$ 0.807 χ^2 /NDF: 1665.7/15

Left Out: 53.967 $\pm$ 1.079 χ^2 /NDF:372.8/2

Right Out: 27.736 $\pm$ 0.797 χ^2 /NDF: 1185.1/18

Left In: 42.608 $\pm$ 1.397 χ^2 /NDF:330.5/1

Left: 49.721 $\pm$ 0.854 χ^2 /NDF: 744.7/4

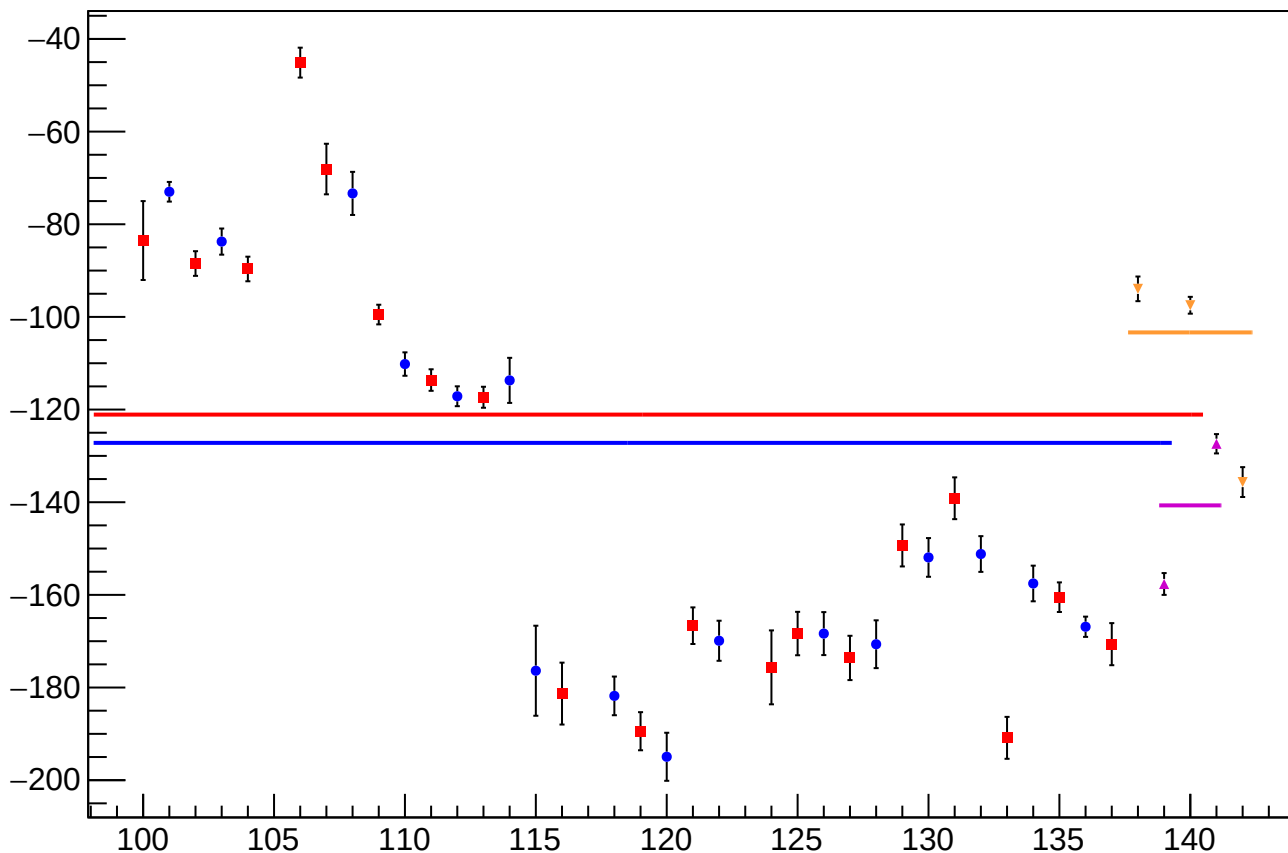
Right: 28.653 $\pm$ 0.567 χ^2 /NDF: 2853.5/34

In: 32.851 $\pm$ 0.699 χ^2 /NDF:2061.2/17

Out: 36.992 $\pm$ 0.641 χ^2 /NDF:1940.2/21

All: 35.100 $\pm$ 0.472 χ^2 /NDF: 4020.5/39

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -127.190+/-0.829 χ^2/NDF : 2178.2/15

Left Out: -103.347+/-1.360 χ^2/NDF :123.3/2

Right Out: -121.086+/-0.798 χ^2/NDF : 2397.3/18

Left In: -140.683+/-1.561 χ^2/NDF :92.6/1

Left: -119.462+/-1.025 χ^2/NDF : 541.1/4

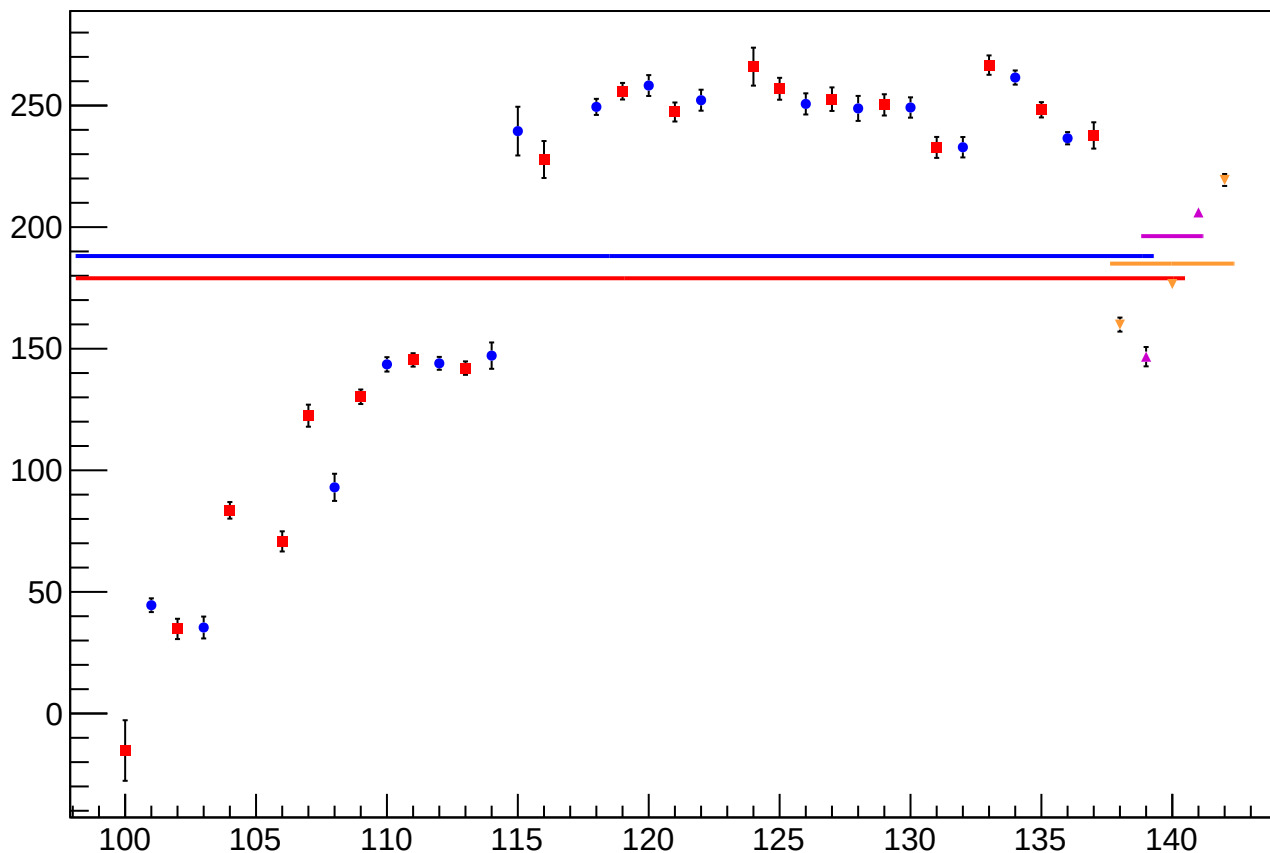
Right: -124.019+/-0.575 χ^2/NDF : 4603.6/34

In: -130.161+/-0.732 χ^2/NDF :2329.1/17

Out: -116.546+/-0.688 χ^2/NDF :2647.1/21

All: -122.929+/-0.501 χ^2/NDF : 5159.8/39

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 188.107+/-0.918 χ^2/NDF : 7118.6/15

Left Out: 184.991+/-1.283 χ^2/NDF : 294.6/2

Right Out: 178.971+/-0.908 χ^2/NDF : 6668.8/18

Left In: 196.296+/-1.613 χ^2/NDF : 185.8/1

Left: 189.369+/-1.004 χ^2/NDF : 510.5/4

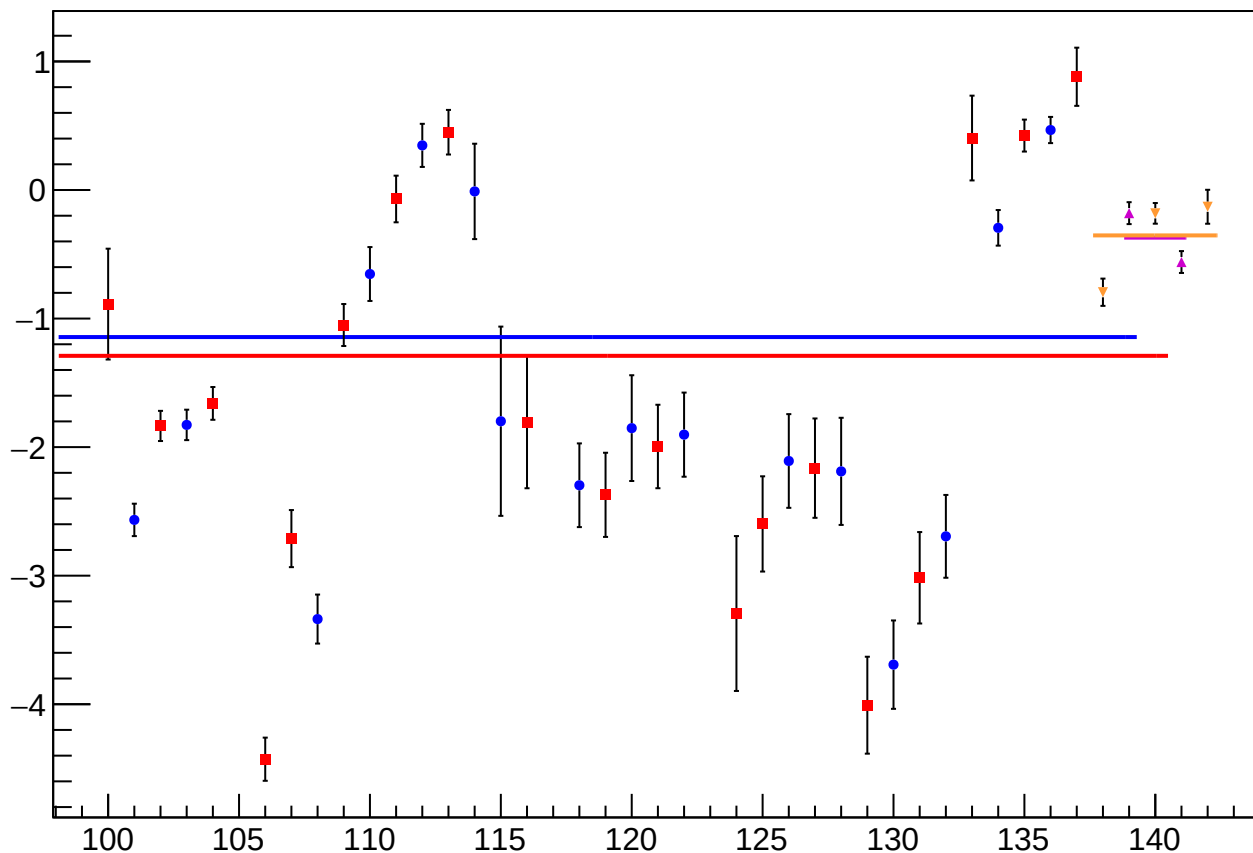
Right: 183.489+/-0.646 χ^2/NDF : 13837.5/34

In: 190.110+/-0.798 χ^2/NDF : 7323.9/17

Out: 180.981+/-0.741 χ^2/NDF : 6978.1/21

All: 185.209+/-0.543 χ^2/NDF : 14372.3/39

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.144 ± 0.048 $\chi^2/\text{NDF}: 787.4/15$

Left Out: -0.353 ± 0.058 $\chi^2/\text{NDF}: 24.8/2$

Right Out: -1.290 ± 0.047 $\chi^2/\text{NDF}: 998.3/18$

Left In: -0.371 ± 0.060 $\chi^2/\text{NDF}: 10.0/1$

Left: -0.361 ± 0.042 $\chi^2/\text{NDF}: 34.8/4$

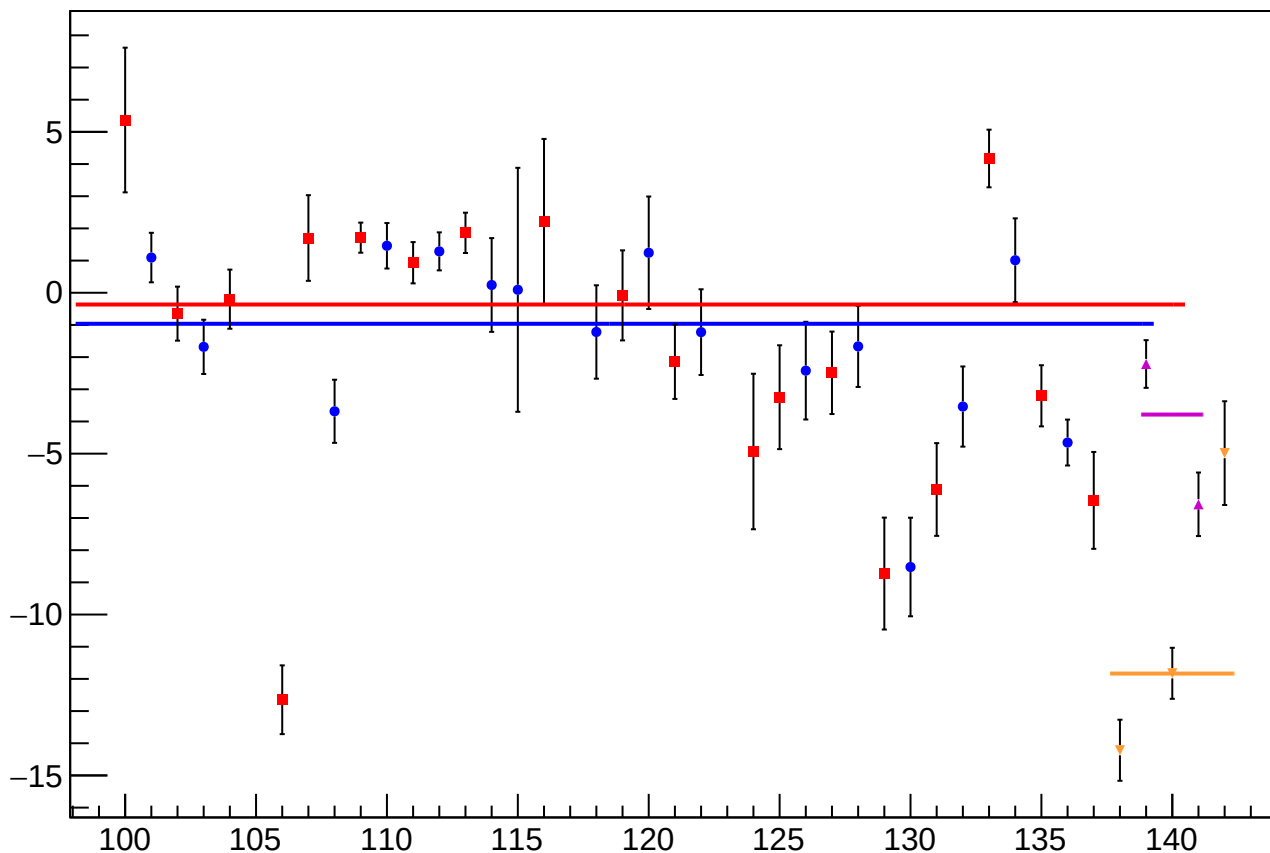
Right: -1.218 ± 0.034 $\chi^2/\text{NDF}: 1790.3/34$

In: -0.843 ± 0.038 $\chi^2/\text{NDF}: 898.2/17$

Out: -0.911 ± 0.037 $\chi^2/\text{NDF}: 1180.5/21$

All: -0.878 ± 0.026 $\chi^2/\text{NDF}: 2080.4/39$

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.964 ± 0.253 χ^2/NDF : 103.2/15

Left Out: -11.834 ± 0.569 χ^2/NDF : 24.4/2

Right Out: -0.365 ± 0.224 χ^2/NDF : 280.6/18

Left In: -3.785 ± 0.593 χ^2/NDF : 12.5/1

Left: -7.970 ± 0.411 χ^2/NDF : 132.8/4

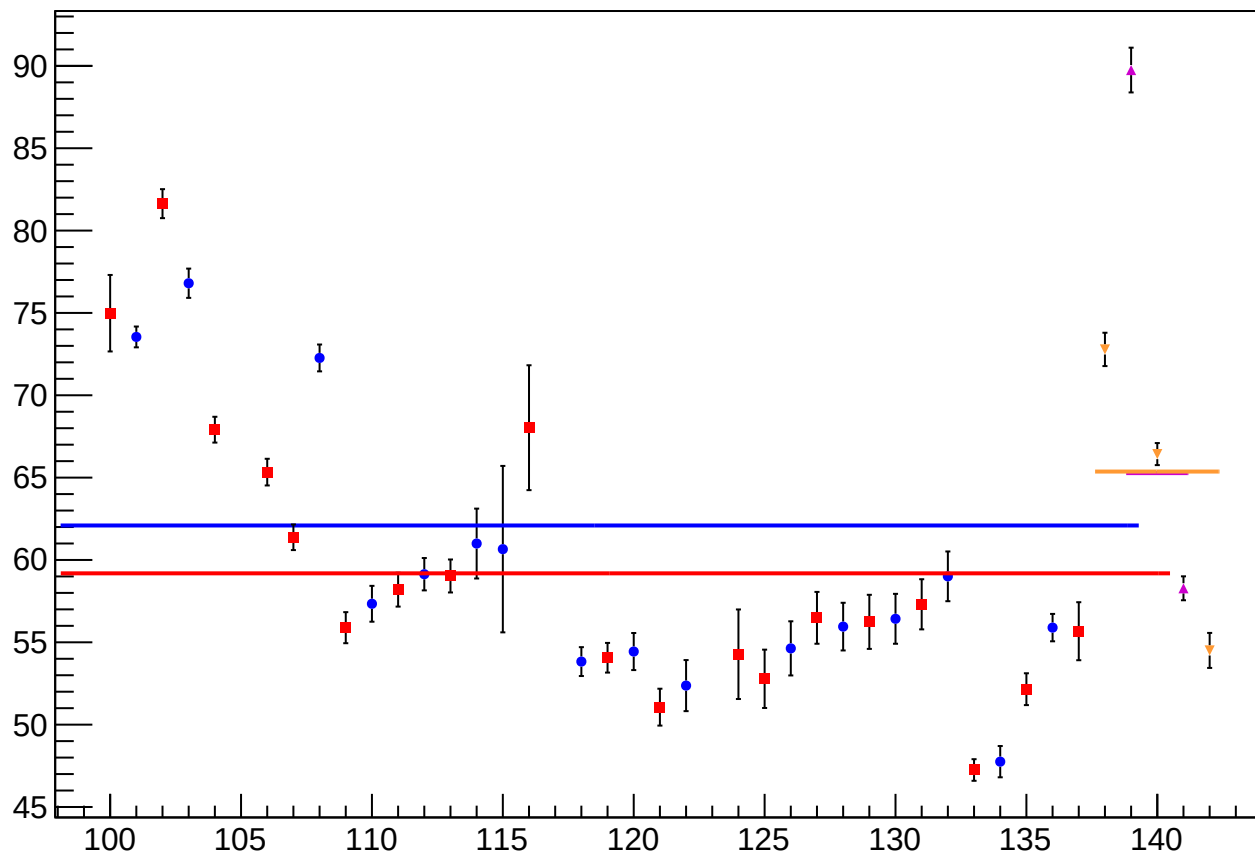
Right: -0.628 ± 0.168 χ^2/NDF : 386.9/34

In: -1.400 ± 0.233 χ^2/NDF : 134.8/17

Out: -1.899 ± 0.208 χ^2/NDF : 656.5/21

All: -1.677 ± 0.155 χ^2/NDF : 793.8/39

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 62.094 $\pm$ 0.265 χ^2 /NDF: 1301.3/15

Left Out: 65.368 $\pm$ 0.494 χ^2 /NDF:160.6/2

Right Out: 59.188 $\pm$ 0.244 χ^2 /NDF: 1402.1/18

Left In: 65.273 $\pm$ 0.641 χ^2 /NDF:417.0/1

Left: 65.333 $\pm$ 0.391 χ^2 /NDF: 577.6/4

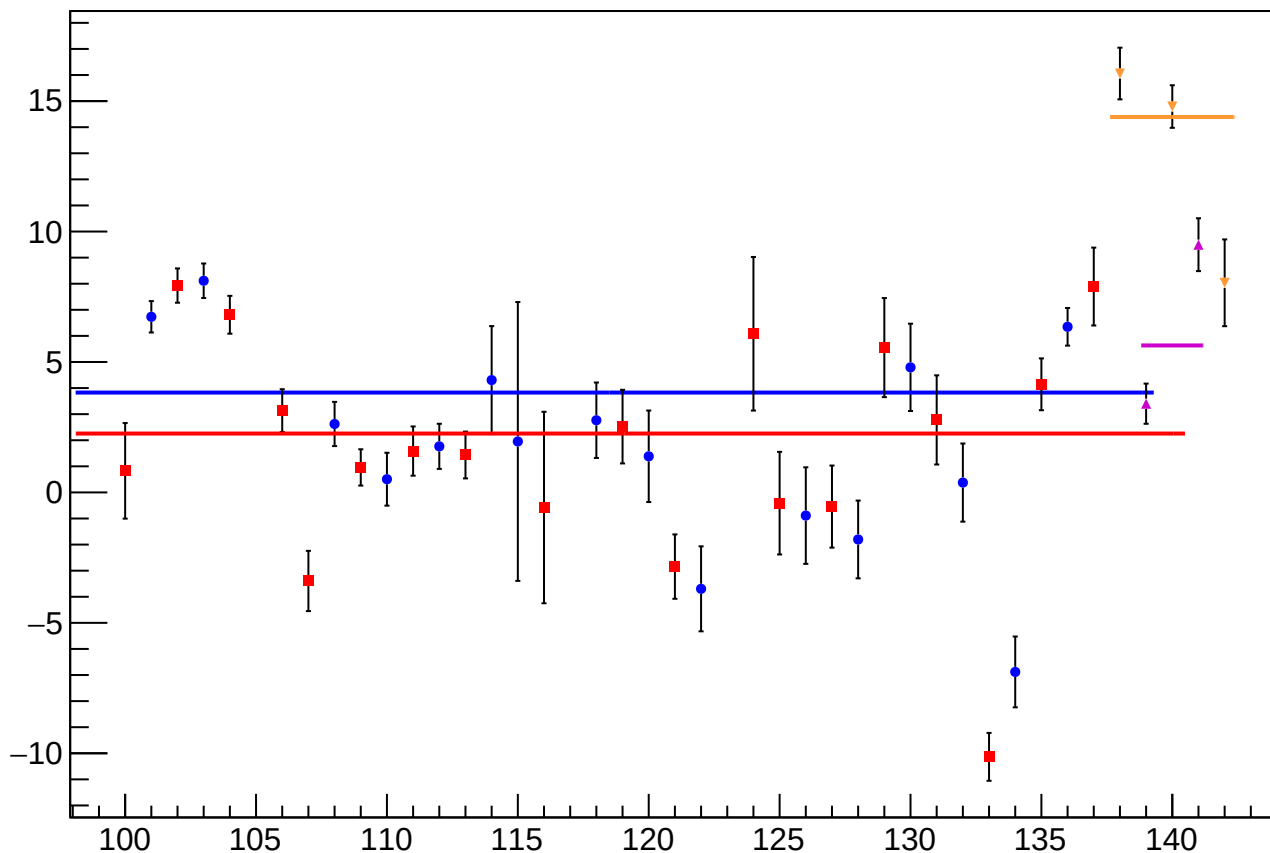
Right: 60.518 $\pm$ 0.180 χ^2 /NDF: 2768.4/34

In: 62.559 $\pm$ 0.245 χ^2 /NDF:1739.3/17

Out: 60.397 $\pm$ 0.219 χ^2 /NDF:1688.4/21

All: 61.355 $\pm$ 0.163 χ^2 /NDF: 3471.1/39

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 3.828 ± 0.265 $\chi^2/\text{NDF}: 208.6/15$

Left Out: 14.391 ± 0.589 $\chi^2/\text{NDF}: 17.7/2$

Right Out: 2.257 ± 0.246 $\chi^2/\text{NDF}: 371.9/18$

Left In: 5.634 ± 0.613 $\chi^2/\text{NDF}: 23.0/1$

Left: 10.187 ± 0.425 $\chi^2/\text{NDF}: 146.7/4$

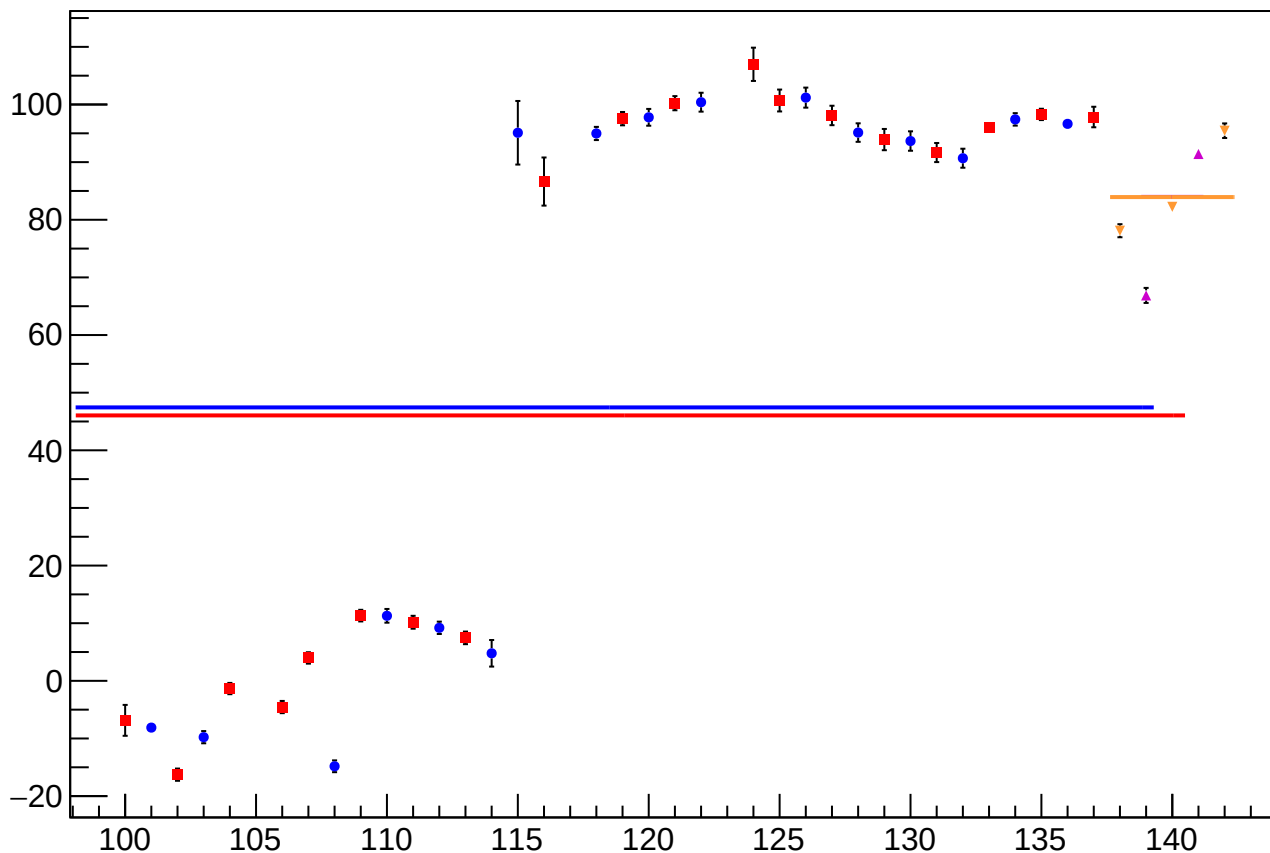
Right: 2.985 ± 0.181 $\chi^2/\text{NDF}: 599.4/34$

In: 4.113 ± 0.243 $\chi^2/\text{NDF}: 238.9/17$

Out: 4.065 ± 0.227 $\chi^2/\text{NDF}: 750.8/21$

All: 4.087 ± 0.166 $\chi^2/\text{NDF}: 989.6/39$

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.443+/-0.308 χ^2/NDF : 26886.9/15

Left Out: 83.938+/-0.582 χ^2/NDF :113.6/2

Right Out: 46.053+/-0.284 χ^2/NDF : 28897.8/18

Left In: 83.969+/-0.719 χ^2/NDF :246.2/1

Left: 83.951+/-0.452 χ^2/NDF : 359.9/4

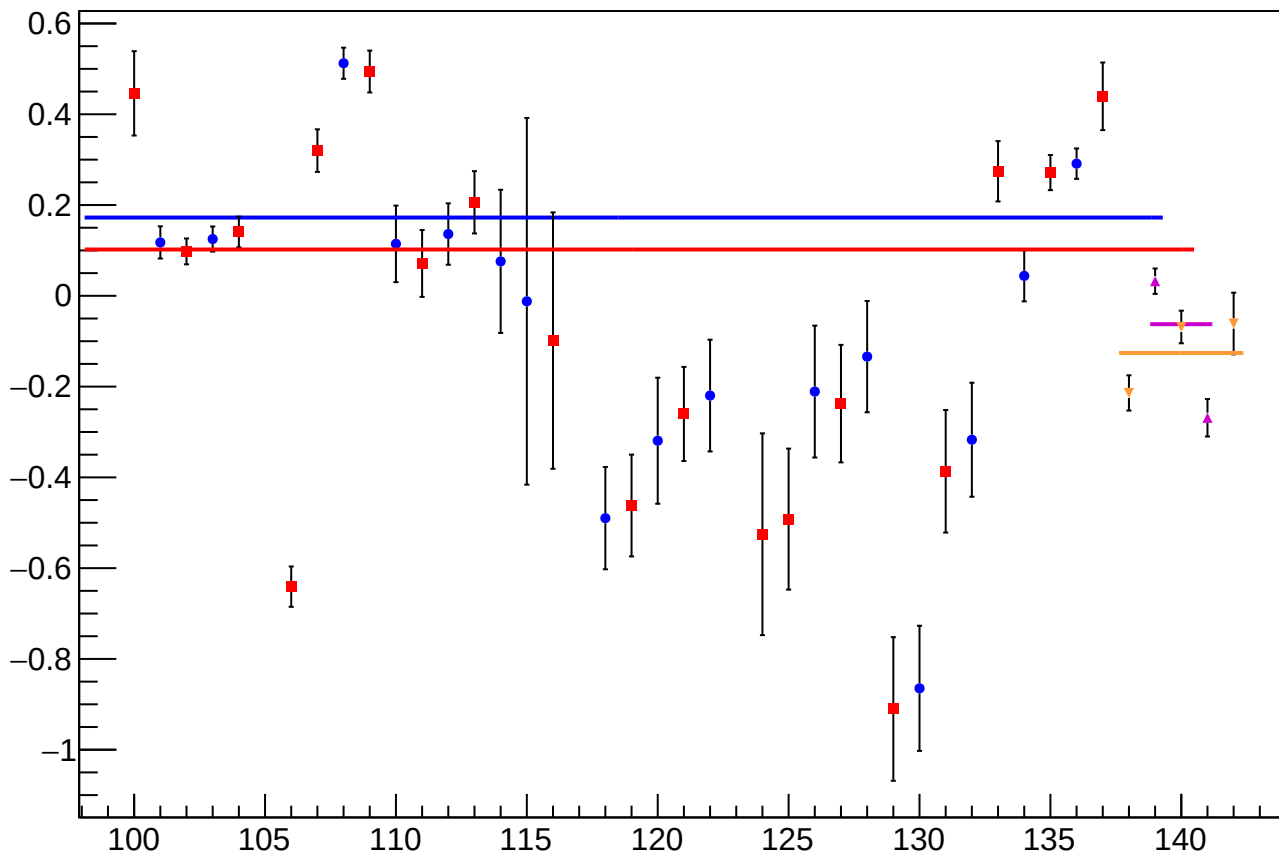
Right: 46.693+/-0.209 χ^2/NDF : 55795.7/34

In: 53.109+/-0.283 χ^2/NDF :29313.9/17

Out: 53.366+/-0.256 χ^2/NDF :32436.0/21

All: 53.251+/-0.190 χ^2/NDF : 61750.4/39

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.172 ± 0.014 χ^2/NDF : 265.0/15

Left Out: -0.126 ± 0.025 χ^2/NDF : 8.6/2

Right Out: 0.102 ± 0.013 χ^2/NDF : 558.7/18

Left In: -0.062 ± 0.023 χ^2/NDF : 36.5/1

Left: -0.092 ± 0.017 χ^2/NDF : 48.6/4

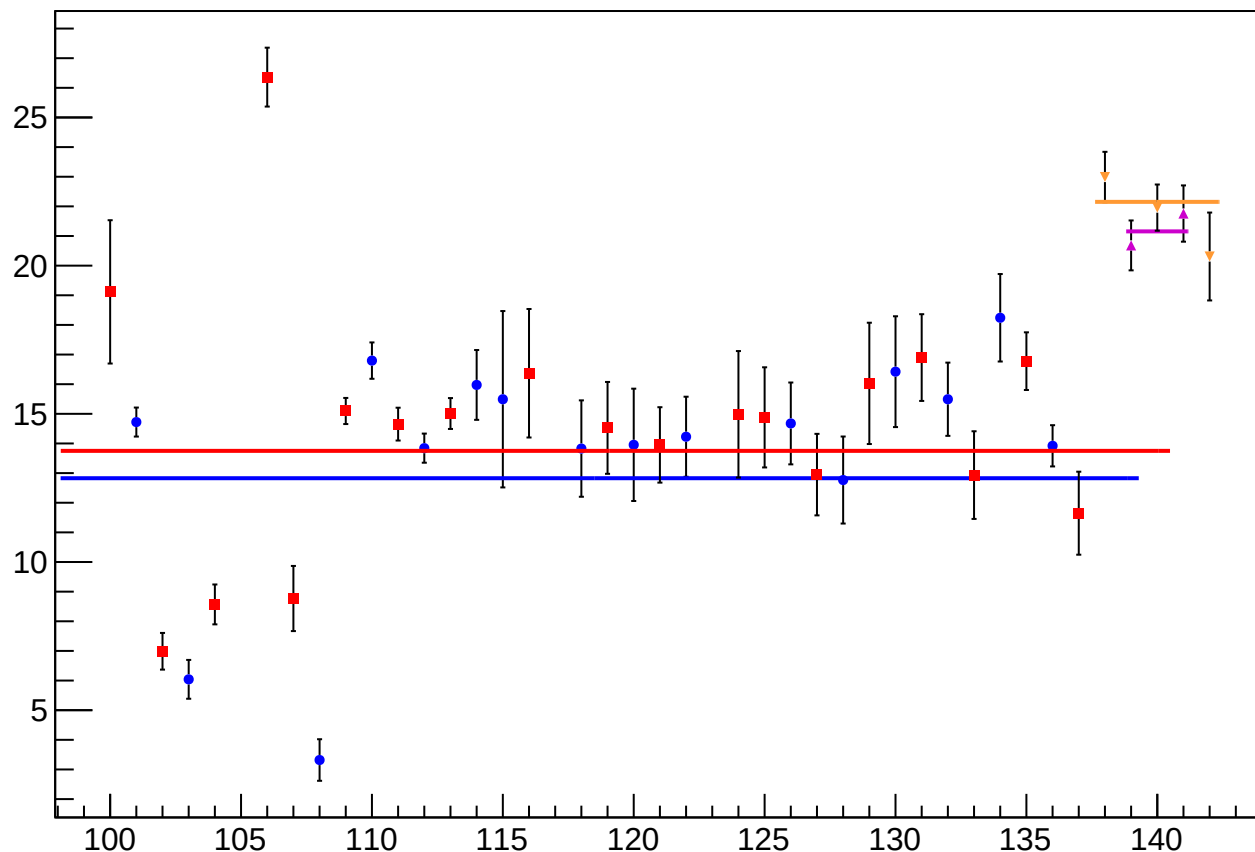
Right: 0.135 ± 0.010 χ^2/NDF : 836.7/34

In: 0.109 ± 0.012 χ^2/NDF : 376.4/17

Out: 0.049 ± 0.012 χ^2/NDF : 633.6/21

All: 0.078 ± 0.008 χ^2/NDF : 1022.3/39

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.827 $\pm$ 0.214 χ^2 /NDF: 388.0/15

Left Out: 22.152 $\pm$ 0.536 χ^2 /NDF: 2.6/2

Right Out: 13.750 $\pm$ 0.204 χ^2 /NDF: 404.0/18

Left In: 21.156 $\pm$ 0.630 χ^2 /NDF: 0.7/1

Left: 21.734 $\pm$ 0.408 χ^2 /NDF: 4.7/4

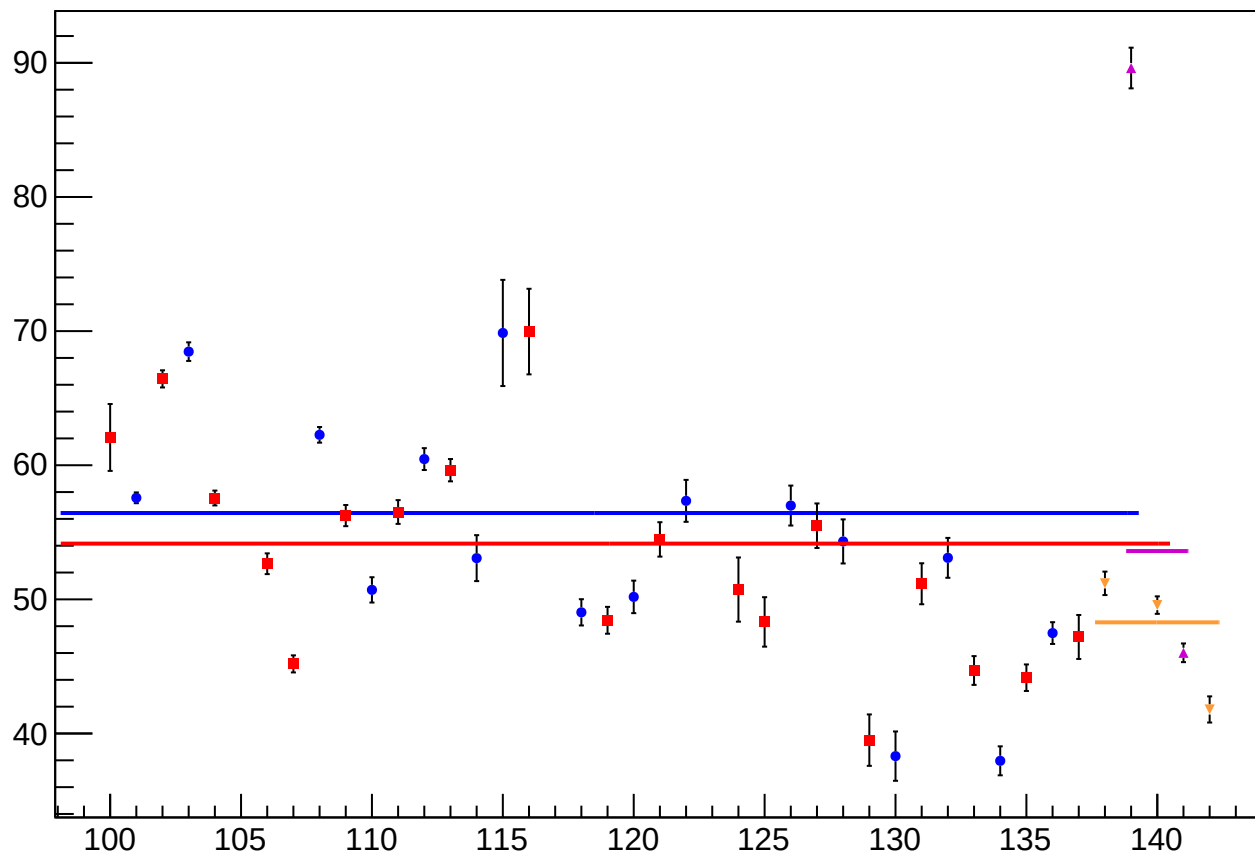
Right: 13.311 $\pm$ 0.148 χ^2 /NDF: 801.7/34

In: 13.690 $\pm$ 0.203 χ^2 /NDF: 545.5/17

Out: 14.815 $\pm$ 0.191 χ^2 /NDF: 621.2/21

All: 14.286 $\pm$ 0.139 χ^2 /NDF: 1183.0/39

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 56.438+/-0.222 χ^2/NDF : 1088.0/15

Left Out: 48.288+/-0.461 χ^2/NDF : 59.2/2

Right Out: 54.156+/-0.225 χ^2/NDF : 1006.6/18

Left In: 53.602+/-0.633 χ^2/NDF : 682.2/1

Left: 50.129+/-0.373 χ^2/NDF : 787.5/4

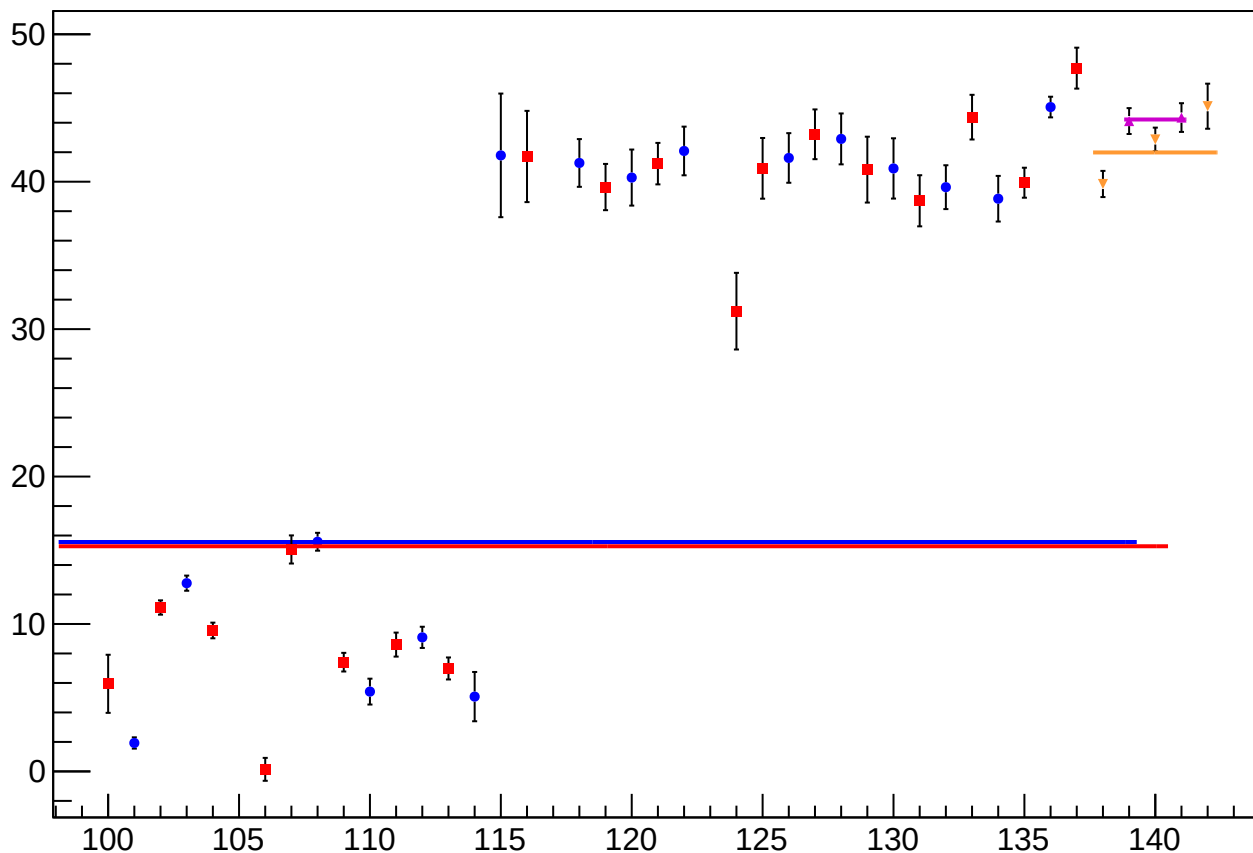
Right: 55.311+/-0.158 χ^2/NDF : 2146.9/34

In: 56.128+/-0.209 χ^2/NDF : 1788.1/17

Out: 53.031+/-0.202 χ^2/NDF : 1196.9/21

All: 54.523+/-0.145 χ^2/NDF : 3098.4/39

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.561 $\pm$ 0.214 χ^2 /NDF: 5176.0/15

Left Out: 41.984 $\pm$ 0.555 χ^2 /NDF:11.2/2

Right Out: 15.272 $\pm$ 0.219 χ^2 /NDF: 3873.0/18

Left In: 44.220 $\pm$ 0.652 χ^2 /NDF:0.0/1

Left: 42.923 $\pm$ 0.422 χ^2 /NDF: 18.1/4

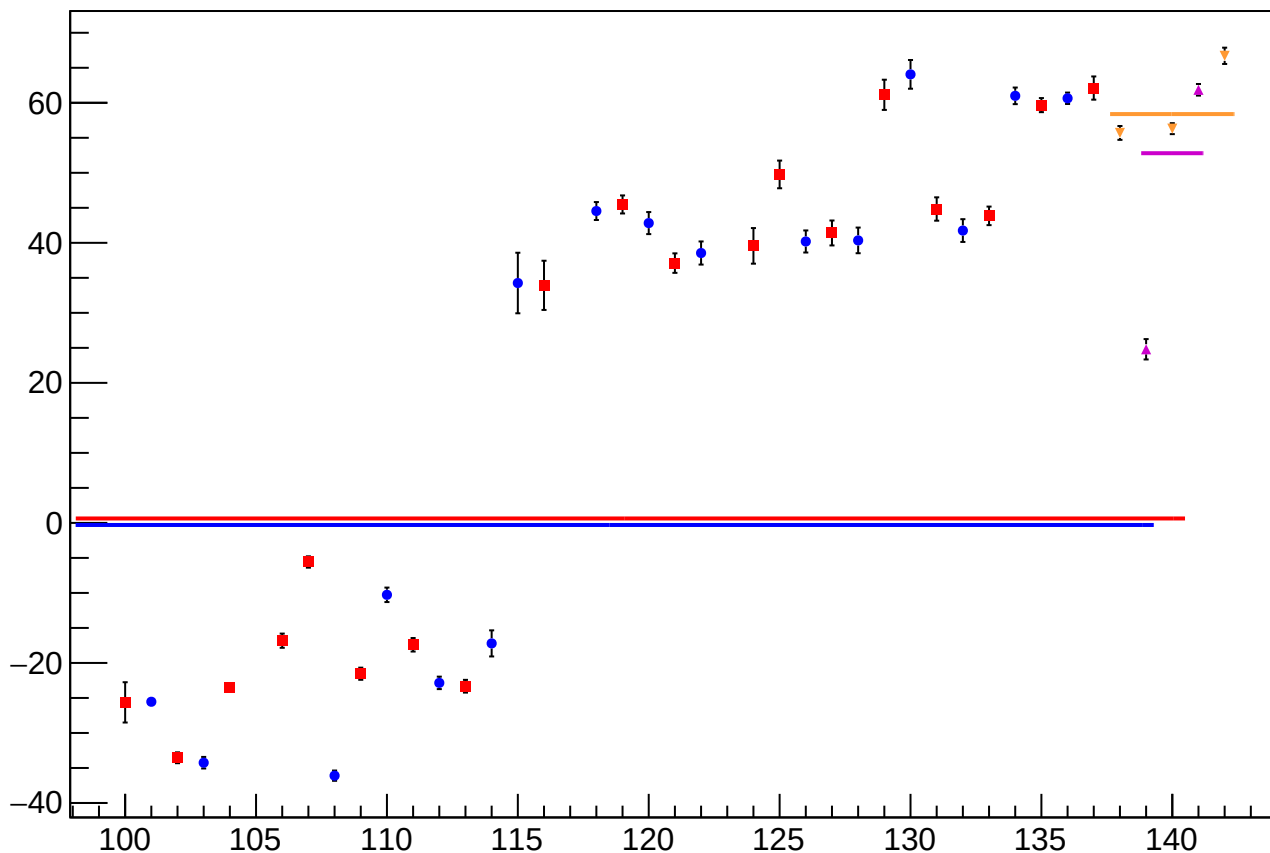
Right: 15.420 $\pm$ 0.153 χ^2 /NDF: 9050.0/34

In: 18.349 $\pm$ 0.203 χ^2 /NDF:6920.7/17

Out: 18.879 $\pm$ 0.204 χ^2 /NDF:5890.5/21

All: 18.613 $\pm$ 0.144 χ^2 /NDF: 12814.6/39

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.296 ± 0.261 χ^2/NDF : 21030.9/15

Left Out: 58.388 ± 0.543 χ^2/NDF : 65.6/2

Right Out: 0.633 ± 0.264 χ^2/NDF : 16028.1/18

Left In: 52.800 ± 0.719 χ^2/NDF : 490.2/1

Left: 56.359 ± 0.433 χ^2/NDF : 594.2/4

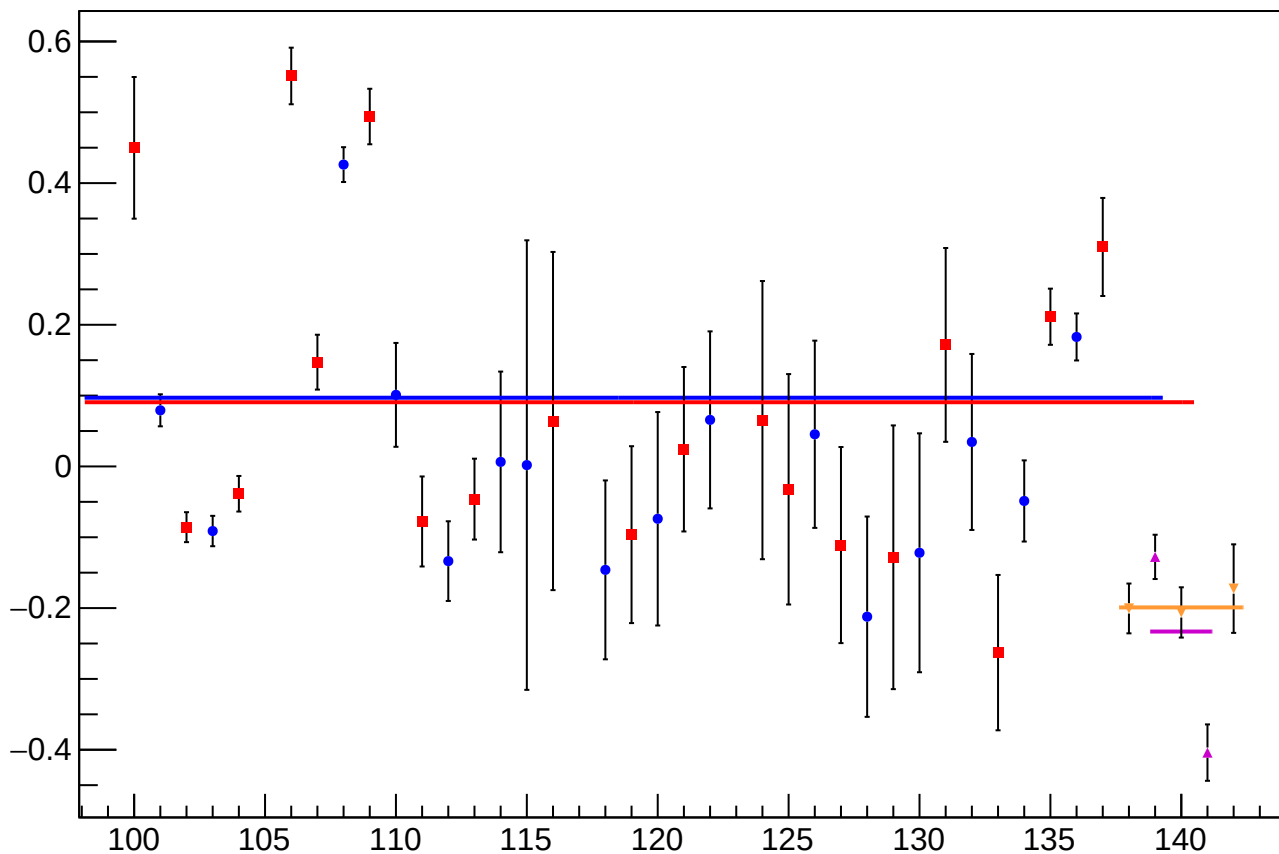
Right: 0.165 ± 0.186 χ^2/NDF : 37065.2/34

In: 5.899 ± 0.246 χ^2/NDF : 26335.1/17

Out: 11.643 ± 0.237 χ^2/NDF : 25244.7/21

All: 8.873 ± 0.171 χ^2/NDF : 51862.8/39

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.097 ± 0.011 χ^2/NDF : 299.1/15

Left Out: -0.199 ± 0.023 χ^2/NDF : 0.2/2

Right Out: 0.091 ± 0.011 χ^2/NDF : 399.5/18

Left In: -0.233 ± 0.025 χ^2/NDF : 29.8/1

Left: -0.215 ± 0.017 χ^2/NDF : 31.0/4

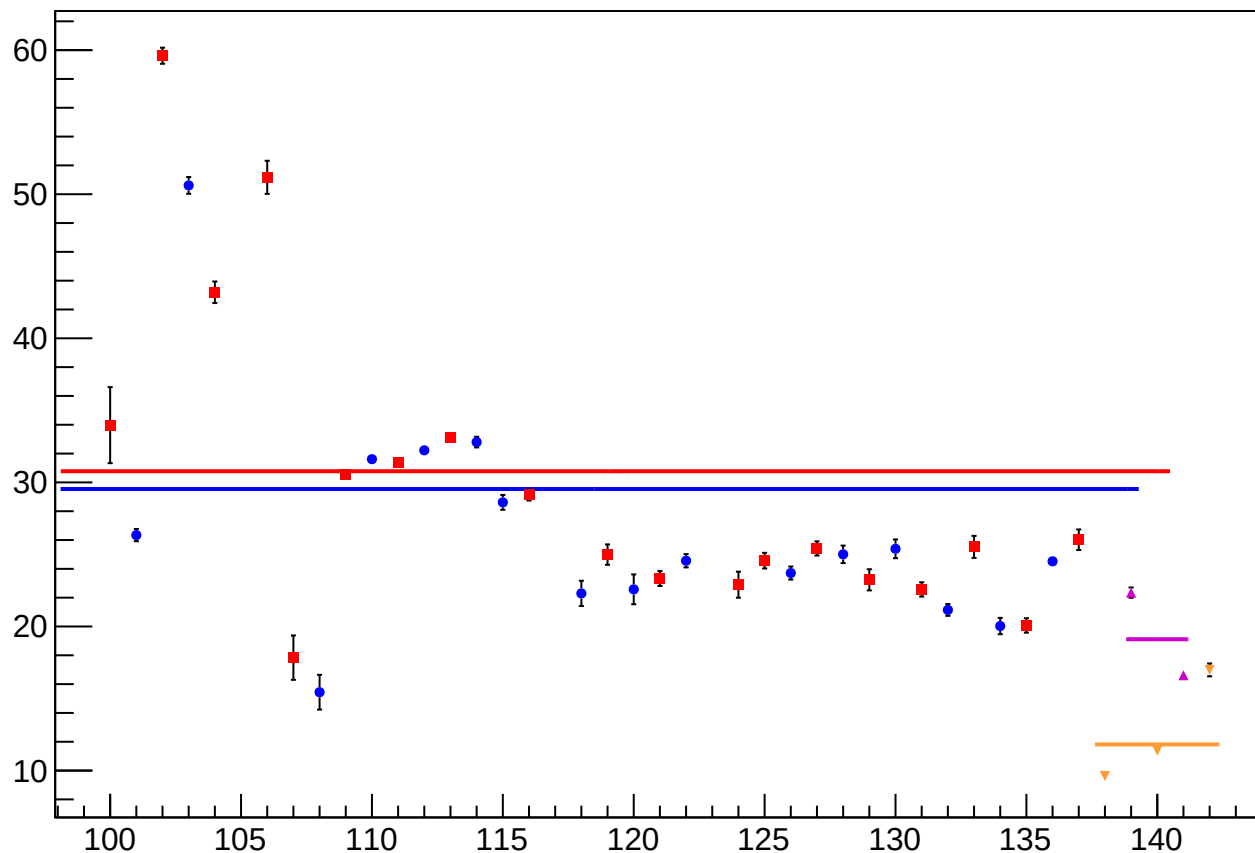
Right: 0.094 ± 0.008 χ^2/NDF : 698.7/34

In: 0.040 ± 0.010 χ^2/NDF : 478.1/17

Out: 0.034 ± 0.010 χ^2/NDF : 525.3/21

All: 0.037 ± 0.007 χ^2/NDF : 1003.6/39

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 29.542 $\pm$ 0.092 χ^2 /NDF: 3372.2/15

Left Out: 11.816 $\pm$ 0.192 χ^2 /NDF:179.8/2

Right Out: 30.774 $\pm$ 0.080 χ^2 /NDF: 5079.2/18

Left In: 19.115 $\pm$ 0.236 χ^2 /NDF:145.3/1

Left: 14.719 $\pm$ 0.149 χ^2 /NDF: 902.3/4

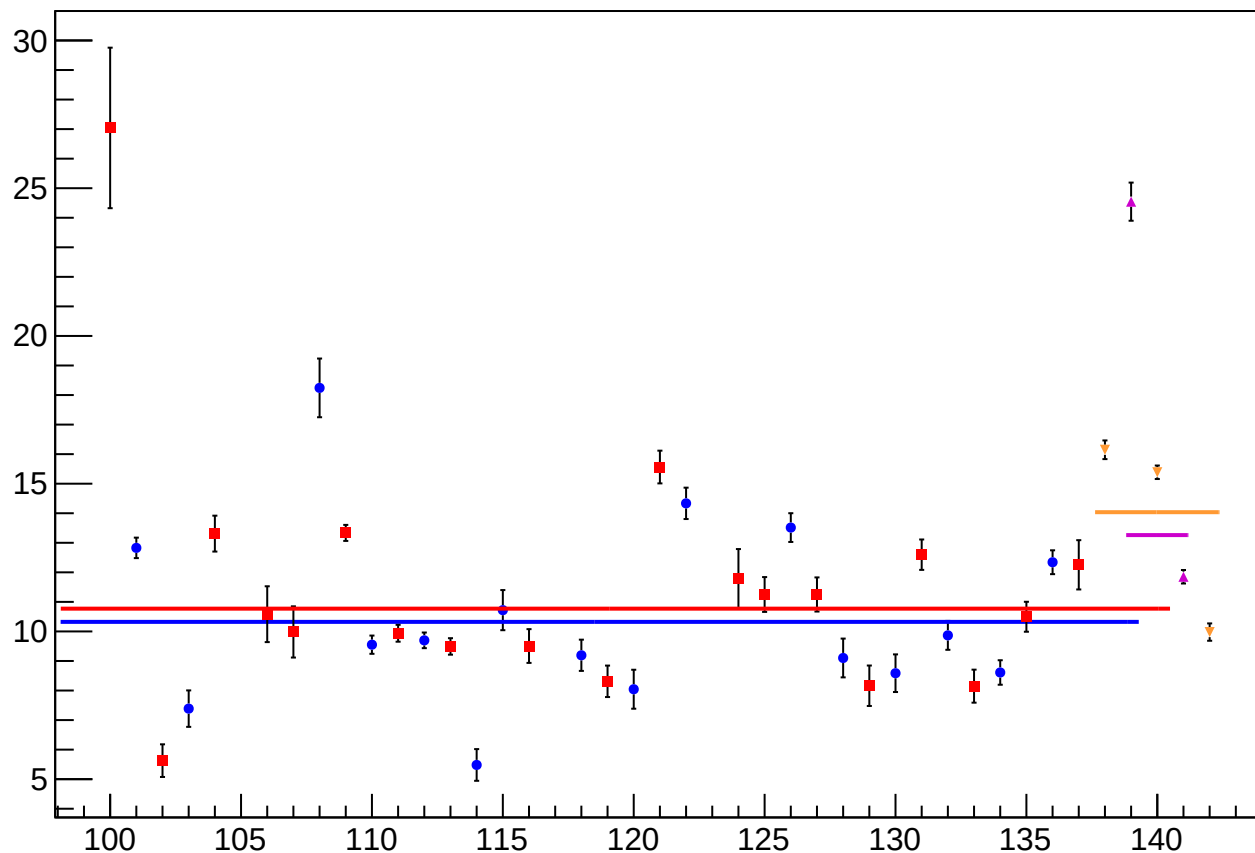
Right: 30.242 $\pm$ 0.060 χ^2 /NDF: 8553.4/34

In: 28.165 $\pm$ 0.086 χ^2 /NDF:5215.3/17

Out: 27.951 $\pm$ 0.074 χ^2 /NDF:13588.6/21

All: 28.042 $\pm$ 0.056 χ^2 /NDF: 18807.5/39

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.324+/-0.114 χ^2/NDF : 402.6/15

Left Out: 14.036+/-0.157 χ^2/NDF : 270.8/2

Right Out: 10.771+/-0.113 χ^2/NDF : 415.8/18

Left In: 13.260+/-0.215 χ^2/NDF : 343.7/1

Left: 13.767+/-0.127 χ^2/NDF : 623.1/4

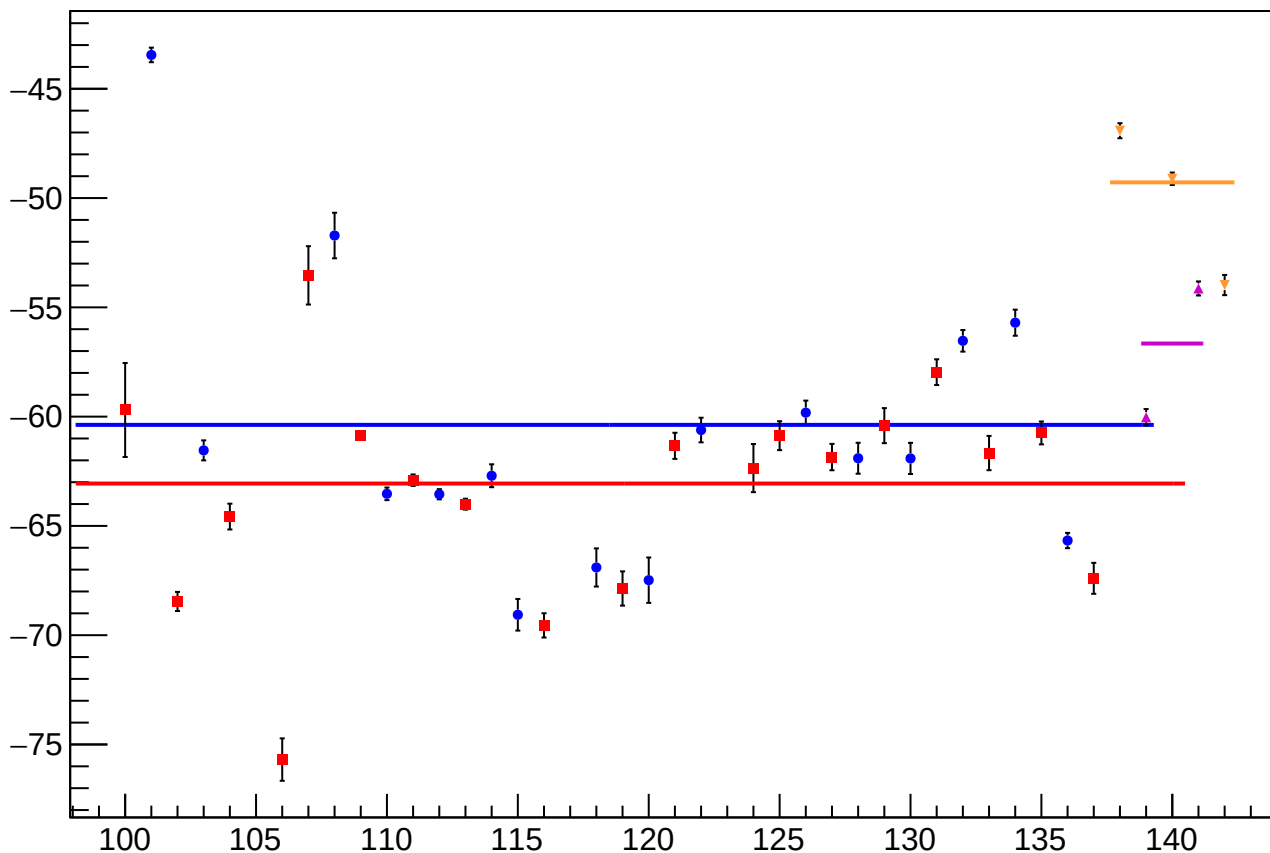
Right: 10.550+/-0.080 χ^2/NDF : 826.2/34

In: 10.967+/-0.101 χ^2/NDF : 891.9/17

Out: 11.888+/-0.092 χ^2/NDF : 972.8/21

All: 11.472+/-0.068 χ^2/NDF : 1910.5/39

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -60.377 ± 0.113 χ^2/NDF : 3597.6/15

Left Out: -49.281 ± 0.198 χ^2/NDF : 151.0/2

Right Out: -63.061 ± 0.107 χ^2/NDF : 844.1/18

Left In: -56.656 ± 0.244 χ^2/NDF : 143.2/1

Left: -52.218 ± 0.154 χ^2/NDF : 846.2/4

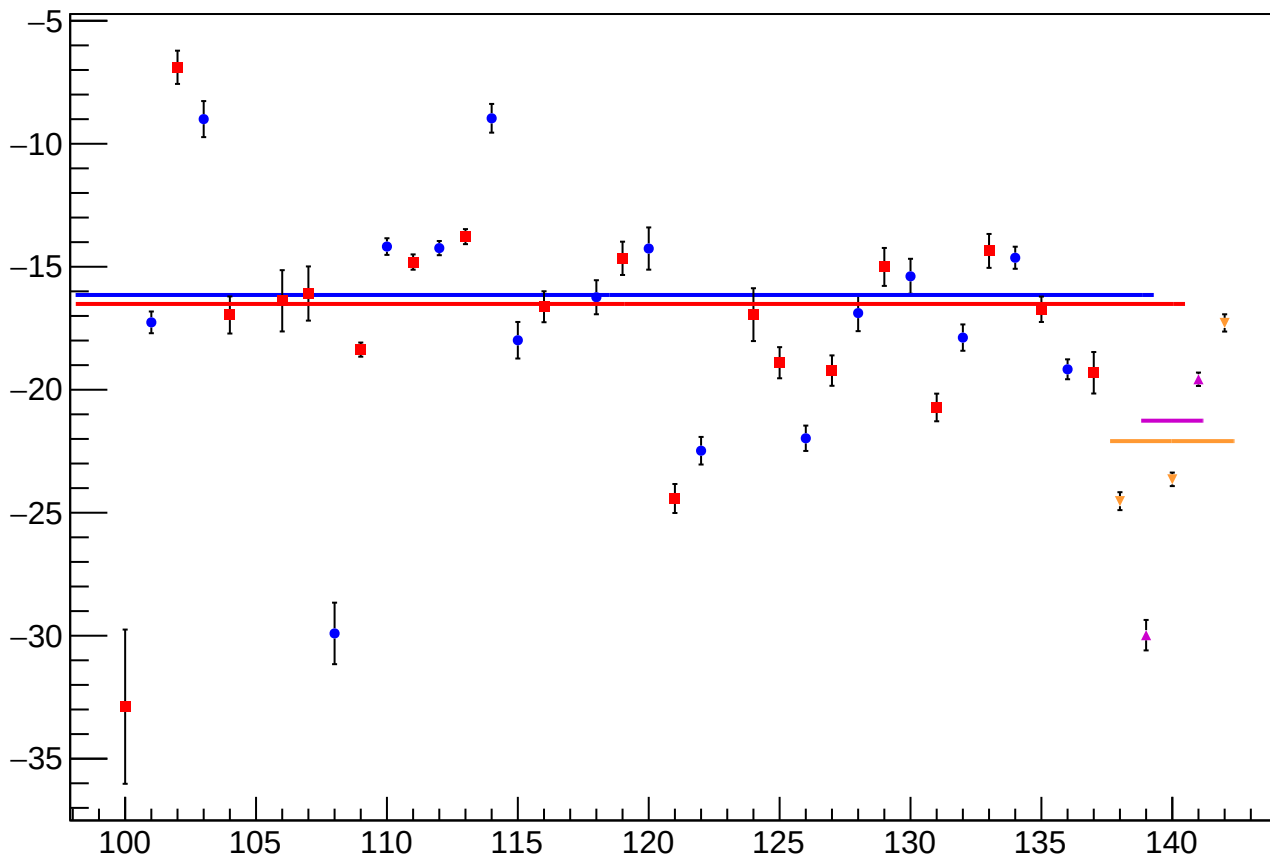
Right: -61.789 ± 0.078 χ^2/NDF : 4738.4/34

In: -59.718 ± 0.103 χ^2/NDF : 3932.9/17

Out: -59.937 ± 0.094 χ^2/NDF : 4737.4/21

All: -59.837 ± 0.069 χ^2/NDF : 8672.8/39

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.147 ± 0.127 $\chi^2/\text{NDF}: 797.1/15$

Left Out: -22.089 ± 0.186 $\chi^2/\text{NDF}: 263.9/2$

Right Out: -16.512 ± 0.125 $\chi^2/\text{NDF}: 684.7/18$

Left In: -21.258 ± 0.249 $\chi^2/\text{NDF}: 236.6/1$

Left: -21.791 ± 0.149 $\chi^2/\text{NDF}: 507.7/4$

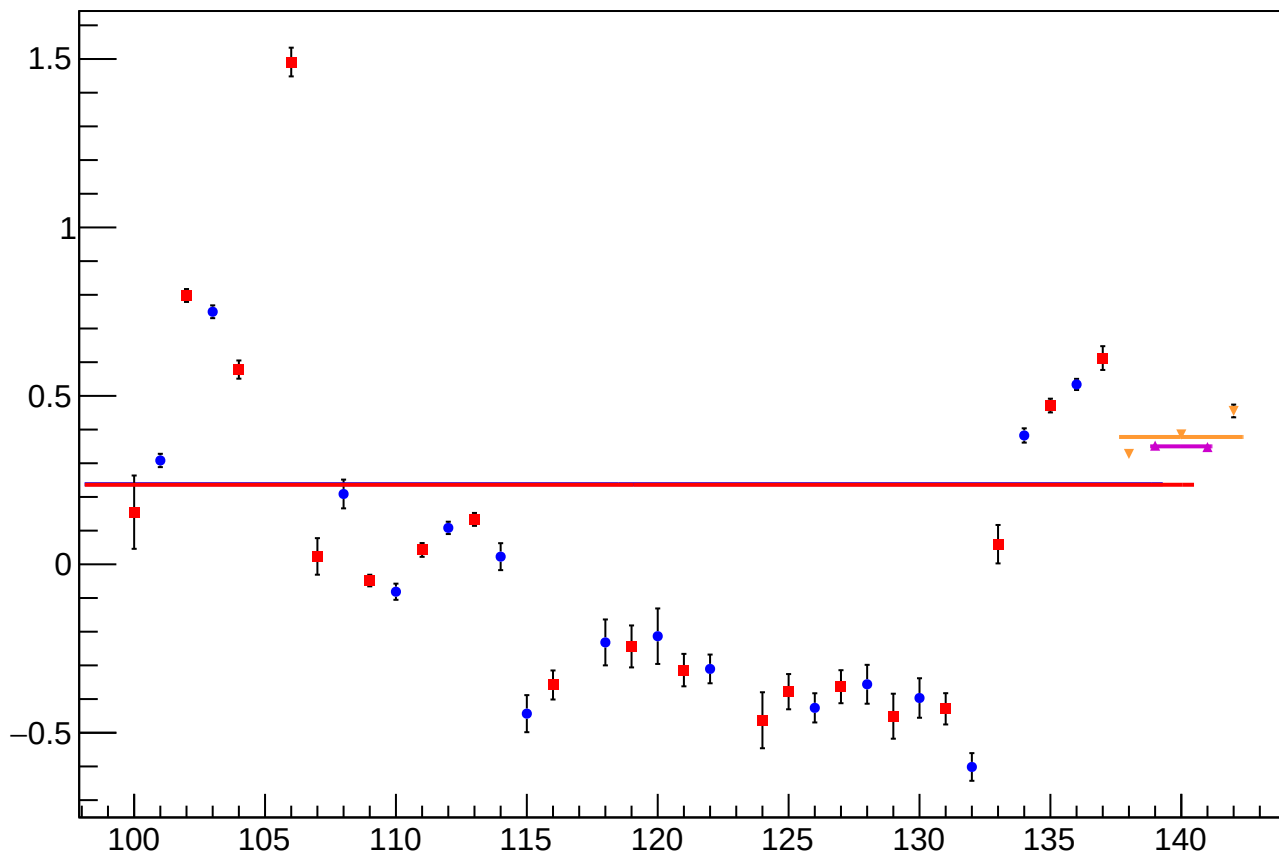
Right: -16.333 ± 0.089 $\chi^2/\text{NDF}: 1486.0/34$

In: -17.204 ± 0.113 $\chi^2/\text{NDF}: 1367.7/17$

Out: -18.239 ± 0.104 $\chi^2/\text{NDF}: 1568.4/21$

All: -17.767 ± 0.076 $\chi^2/\text{NDF}: 2981.6/39$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.238 $\pm$ 0.007 χ^2 /NDF: 2632.9/15

Left Out: 0.378 $\pm$ 0.008 χ^2 /NDF:30.1/2

Right Out: 0.236 $\pm$ 0.007 χ^2 /NDF: 3595.0/18

Left In: 0.350 $\pm$ 0.009 χ^2 /NDF:0.0/1

Left: 0.366 $\pm$ 0.006 χ^2 /NDF: 35.1/4

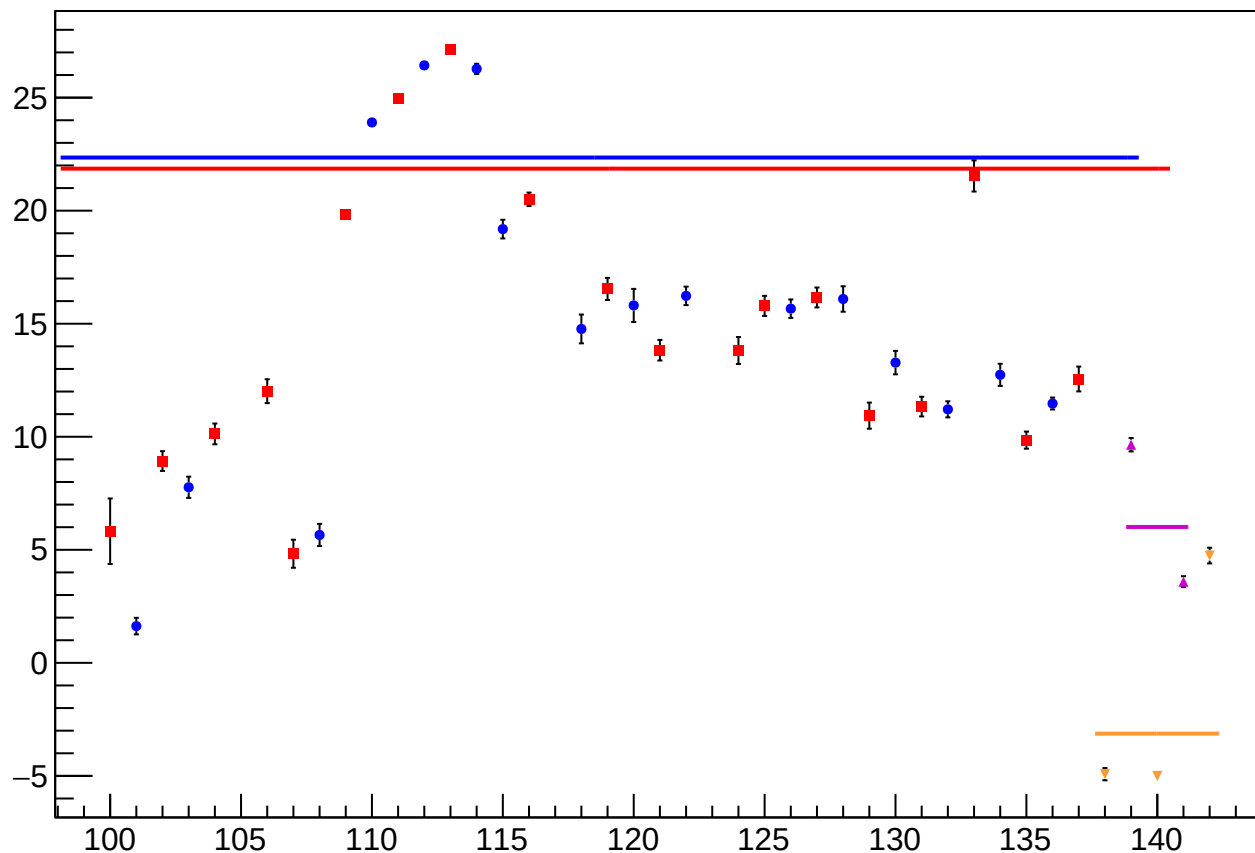
Right: 0.237 $\pm$ 0.005 χ^2 /NDF: 6227.9/34

In: 0.279 $\pm$ 0.006 χ^2 /NDF:2724.9/17

Out: 0.295 $\pm$ 0.005 χ^2 /NDF:3791.9/21

All: 0.287 $\pm$ 0.004 χ^2 /NDF: 6521.4/39

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 22.350+/-0.057 χ^2/NDF : 12336.9/15

Left Out: -3.131+/-0.151 χ^2/NDF : 634.5/2

Right Out: 21.859+/-0.046 χ^2/NDF : 10692.4/18

Left In: 6.011+/-0.186 χ^2/NDF : 253.4/1

Left: 0.496+/-0.117 χ^2/NDF : 2338.6/4

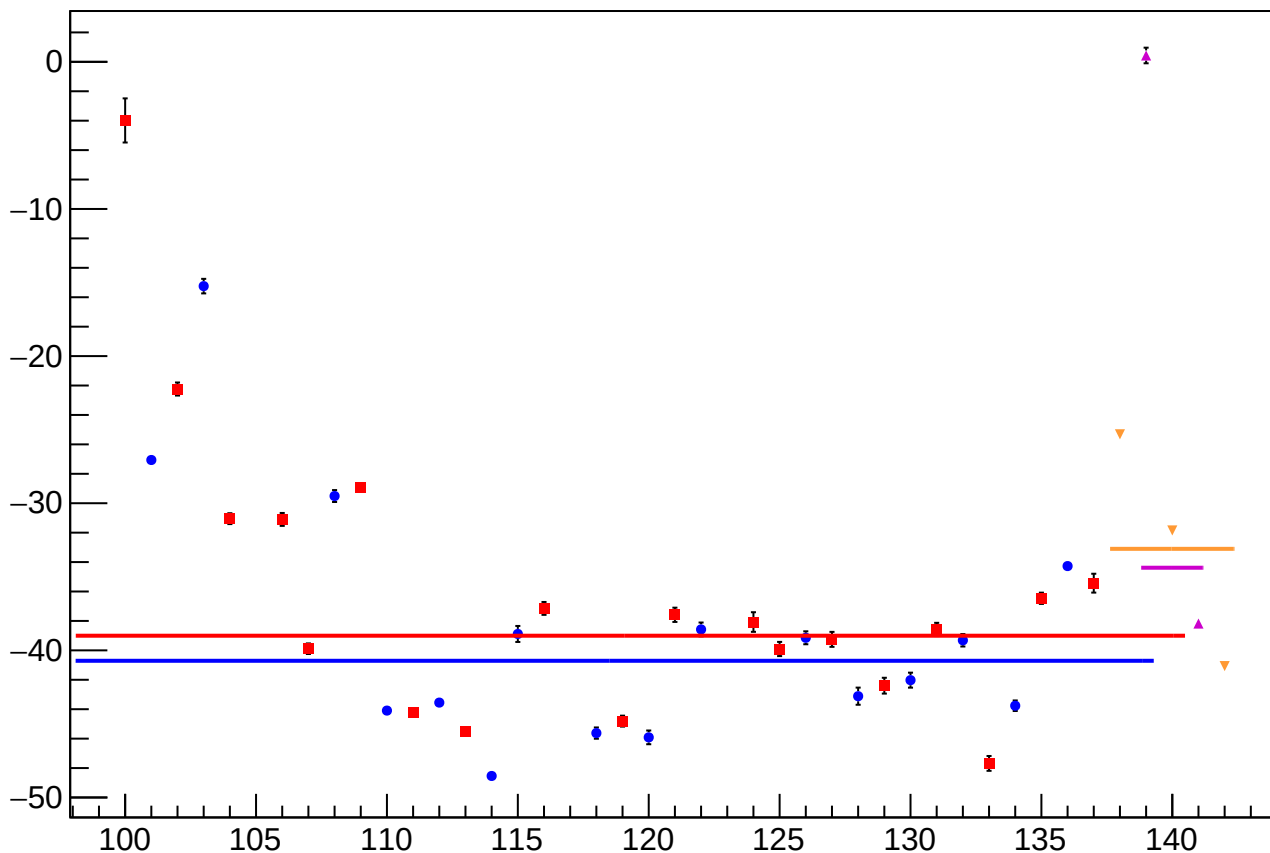
Right: 22.056+/-0.036 χ^2/NDF : 23074.3/34

In: 20.973+/-0.054 χ^2/NDF : 19624.8/17

Out: 19.718+/-0.044 χ^2/NDF : 36305.5/21

All: 20.221+/-0.034 χ^2/NDF : 56252.8/39

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -40.709 ± 0.076 $\chi^2/\text{NDF}: 7780.4/15$

Left Out: -33.100 ± 0.123 $\chi^2/\text{NDF}: 2156.3/2$

Right Out: -39.005 ± 0.071 $\chi^2/\text{NDF}: 10101.3/18$

Left In: -34.384 ± 0.166 $\chi^2/\text{NDF}: 4769.3/1$

Left: -33.555 ± 0.099 $\chi^2/\text{NDF}: 6964.1/4$

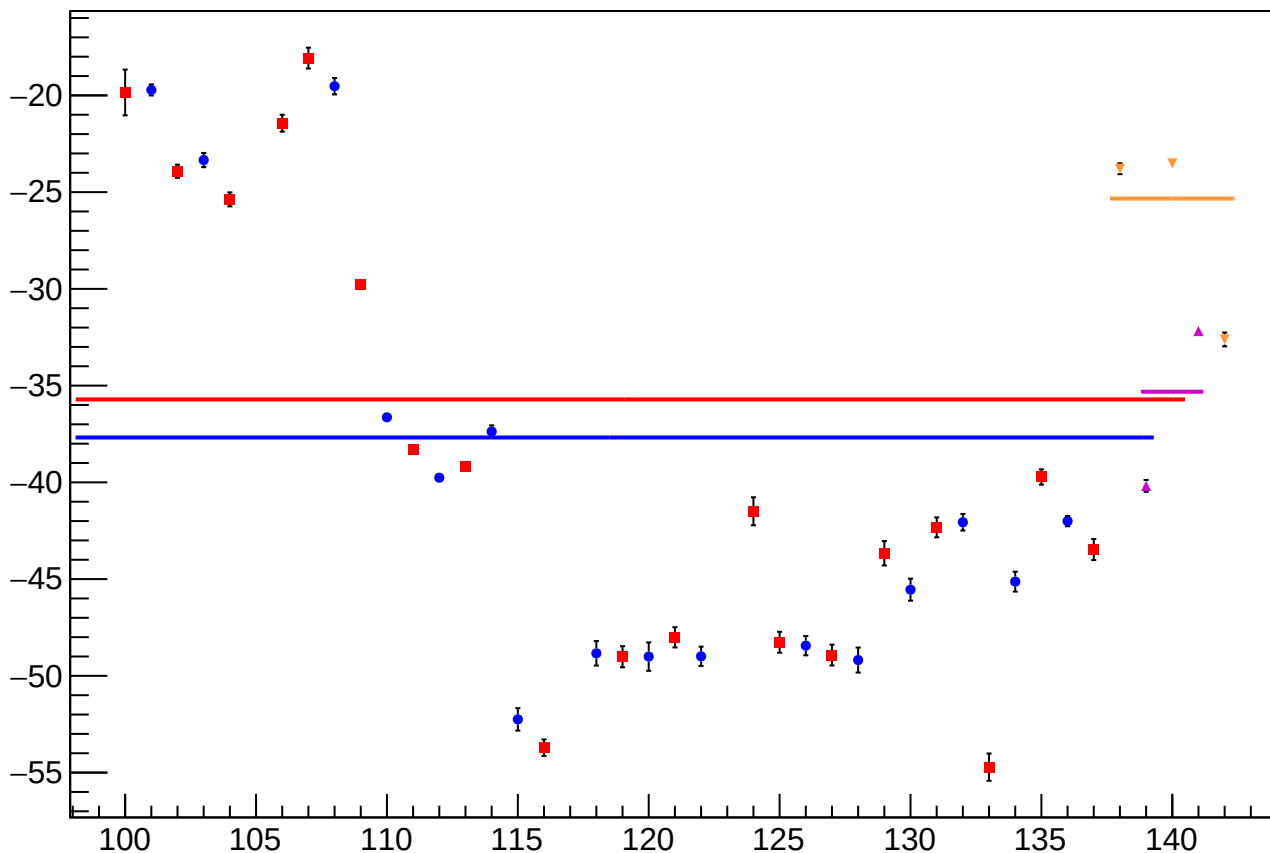
Right: -39.794 ± 0.052 $\chi^2/\text{NDF}: 18148.1/34$

In: -39.606 ± 0.070 $\chi^2/\text{NDF}: 13742.1/17$

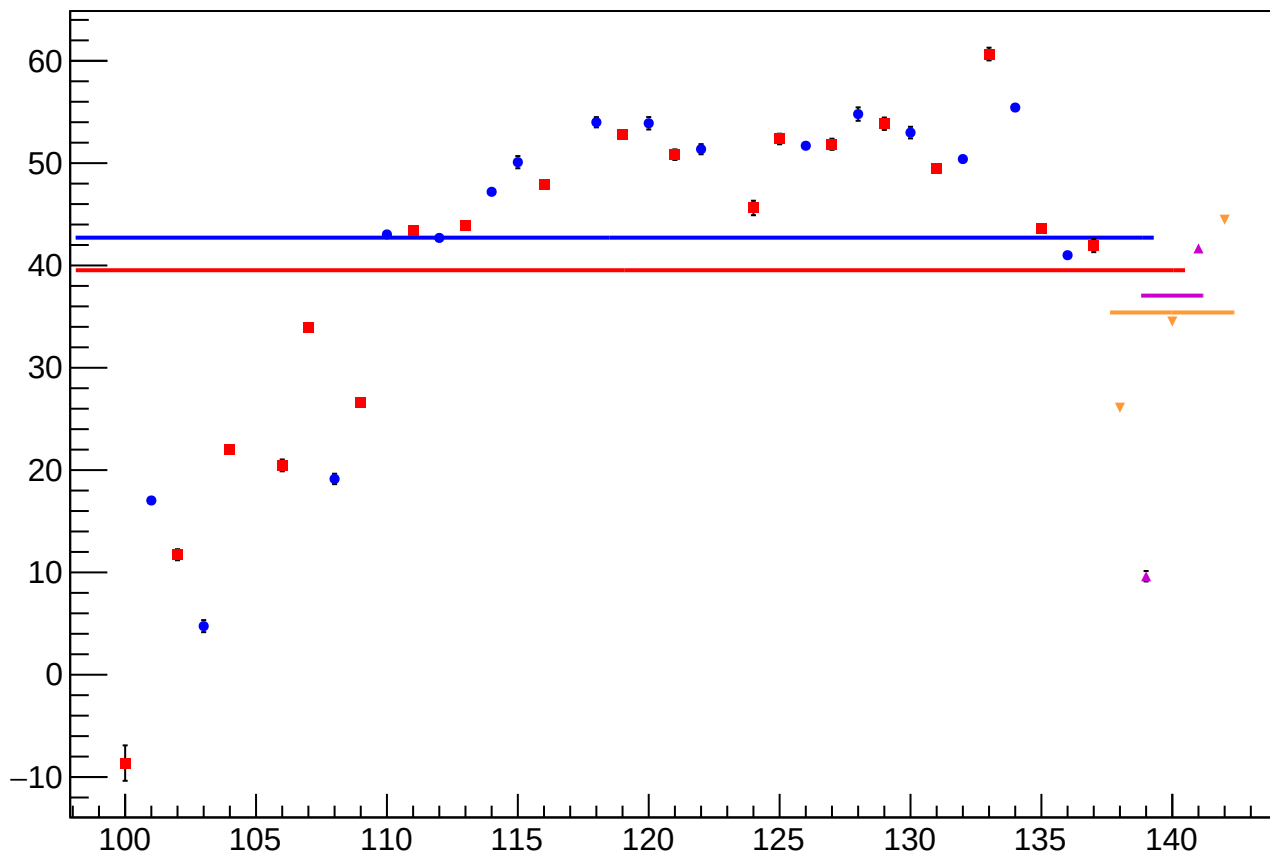
Out: -37.532 ± 0.062 $\chi^2/\text{NDF}: 13981.1/21$

All: -38.444 ± 0.046 $\chi^2/\text{NDF}: 28222.2/39$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.718+/-0.085 χ^2/NDF : 14765.0/15

Left Out: 35.406+/-0.146 χ^2/NDF : 2079.5/2

Right Out: 39.533+/-0.078 χ^2/NDF : 17978.2/18

Left In: 37.054+/-0.193 χ^2/NDF : 3391.7/1

Left: 36.007+/-0.117 χ^2/NDF : 5517.5/4

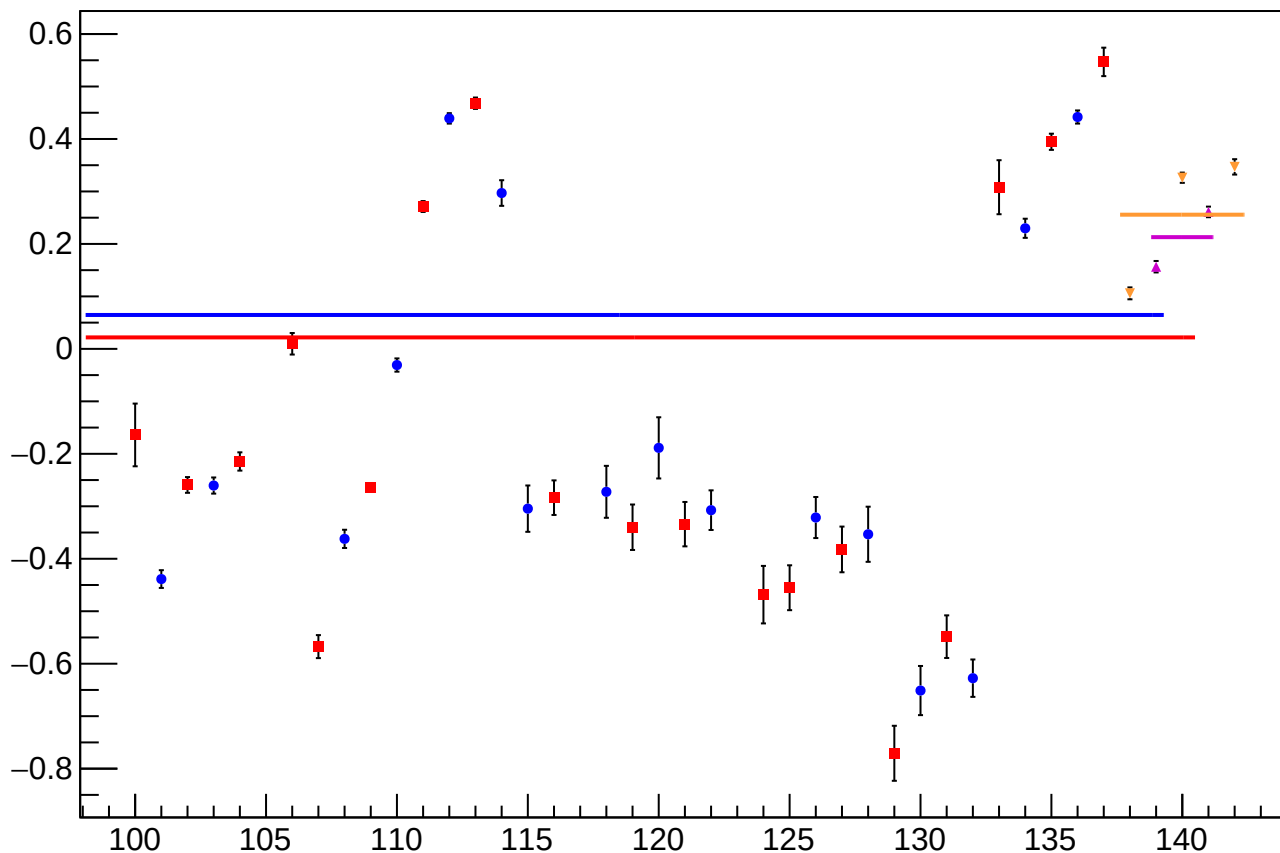
Right: 40.991+/-0.058 χ^2/NDF : 33503.2/34

In: 41.798+/-0.078 χ^2/NDF : 18877.1/17

Out: 38.618+/-0.069 χ^2/NDF : 20675.9/21

All: 40.016+/-0.052 χ^2/NDF : 40488.0/39

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.065 $\pm$ 0.005 χ^2 /NDF: 5497.5/15

Left Out: 0.256 $\pm$ 0.007 χ^2 /NDF:264.3/2

Right Out: 0.022 $\pm$ 0.004 χ^2 /NDF: 6405.3/18

Left In: 0.213 $\pm$ 0.007 χ^2 /NDF:49.3/1

Left: 0.237 $\pm$ 0.005 χ^2 /NDF: 332.1/4

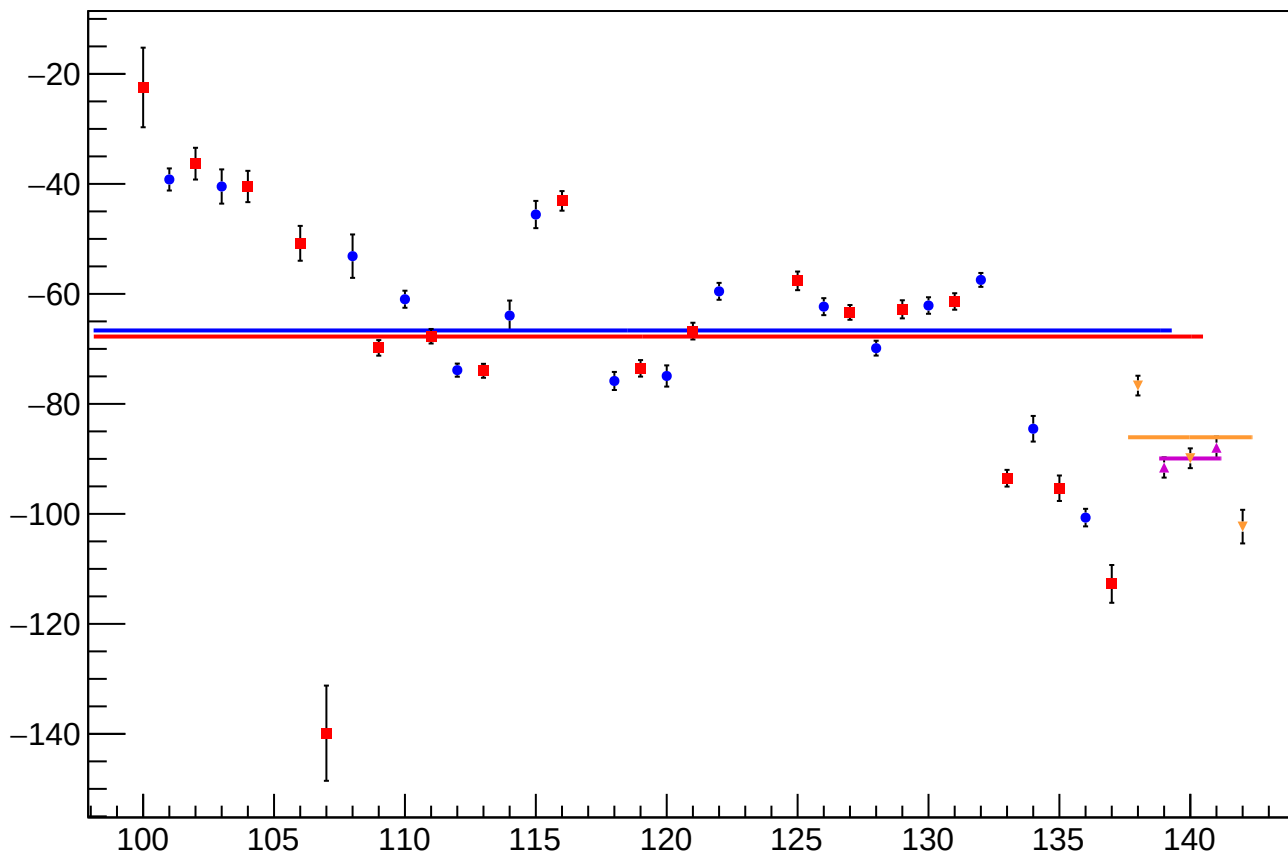
Right: 0.041 $\pm$ 0.003 χ^2 /NDF: 11945.6/34

In: 0.109 $\pm$ 0.004 χ^2 /NDF:5827.3/17

Out: 0.093 $\pm$ 0.004 χ^2 /NDF:7537.1/21

All: 0.100 $\pm$ 0.003 χ^2 /NDF: 13372.7/39

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -66.648 ± 0.426 $\chi^2/\text{NDF}: 1052.4/15$

Left Out: -86.068 ± 1.173 $\chi^2/\text{NDF}: 60.2/2$

Right Out: -67.755 ± 0.419 $\chi^2/\text{NDF}: 1255.4/17$

Left In: -89.924 ± 1.358 $\chi^2/\text{NDF}: 1.7/1$

Left: -87.716 ± 0.888 $\chi^2/\text{NDF}: 66.6/4$

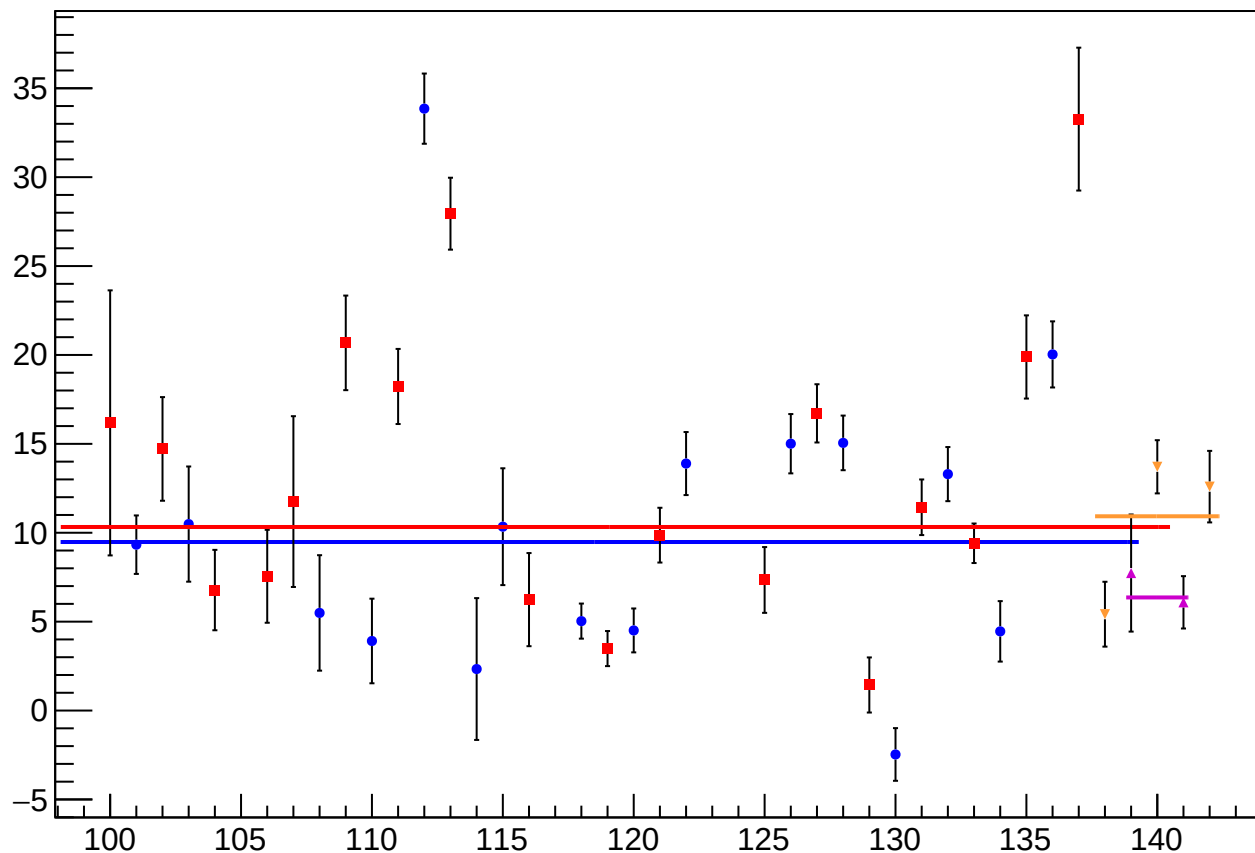
Right: -67.210 ± 0.299 $\chi^2/\text{NDF}: 2311.2/33$

In: -68.735 ± 0.407 $\chi^2/\text{NDF}: 1321.7/17$

Out: -69.832 ± 0.395 $\chi^2/\text{NDF}: 1531.8/20$

All: -69.299 ± 0.283 $\chi^2/\text{NDF}: 2857.3/38$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.480 $\pm$ 0.428 χ^2/NDF : 341.9/15

Left Out: 10.927 $\pm$ 1.003 χ^2/NDF :13.3/2

Right Out: 10.324 $\pm$ 0.436 χ^2/NDF : 263.4/17

Left In: 6.361 $\pm$ 1.344 χ^2/NDF :0.2/1

Left: 9.294 $\pm$ 0.804 χ^2/NDF : 20.9/4

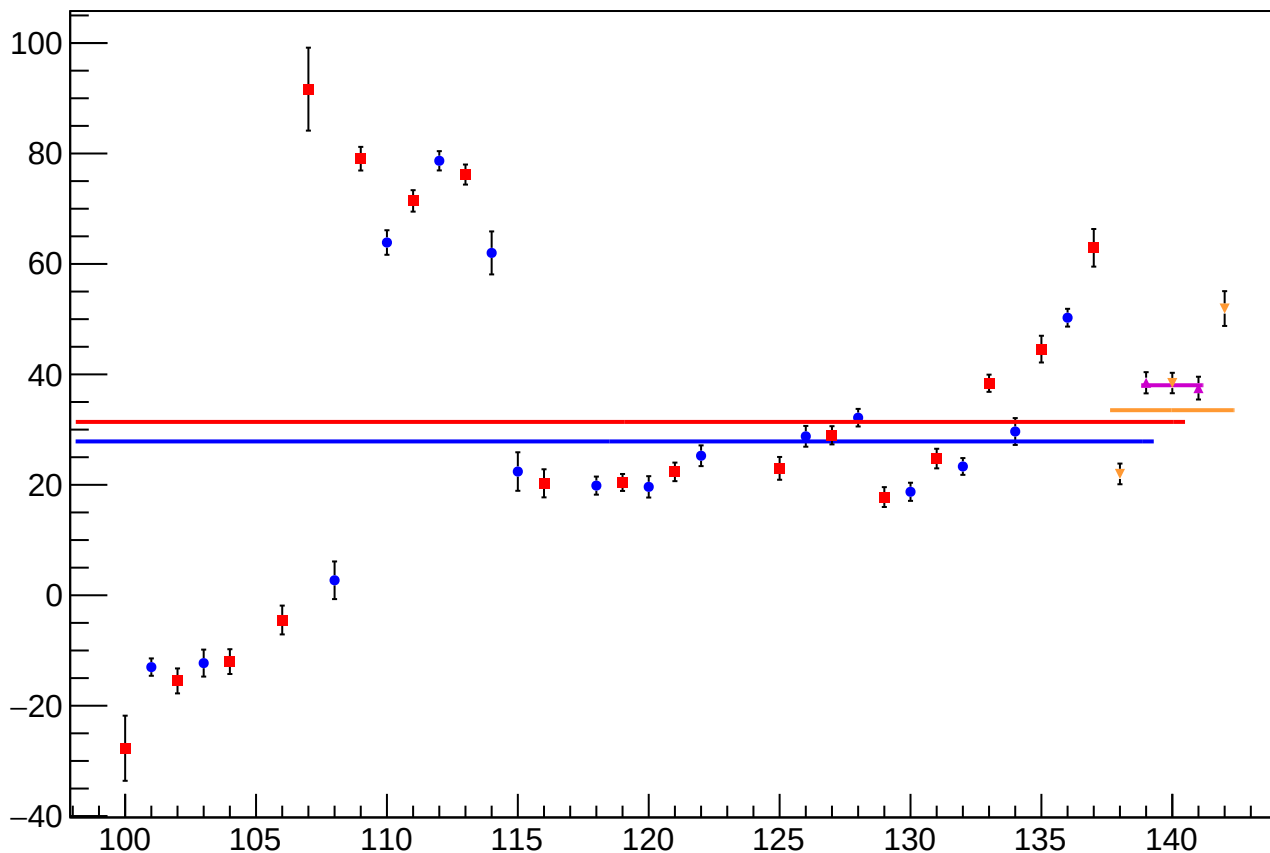
Right: 9.895 $\pm$ 0.305 χ^2/NDF : 607.3/33

In: 9.192 $\pm$ 0.408 χ^2/NDF :347.0/17

Out: 10.420 $\pm$ 0.400 χ^2/NDF :277.0/20

All: 9.819 $\pm$ 0.285 χ^2/NDF : 628.6/38

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.860 $\pm$ 0.482 χ^2 /NDF: 2474.0/15

Left Out: 33.516 $\pm$ 1.214 χ^2 /NDF:79.2/2

Right Out: 31.394 $\pm$ 0.488 χ^2 /NDF: 3011.4/17

Left In: 38.033 $\pm$ 1.406 χ^2 /NDF:0.1/1

Left: 35.446 $\pm$ 0.919 χ^2 /NDF: 85.2/4

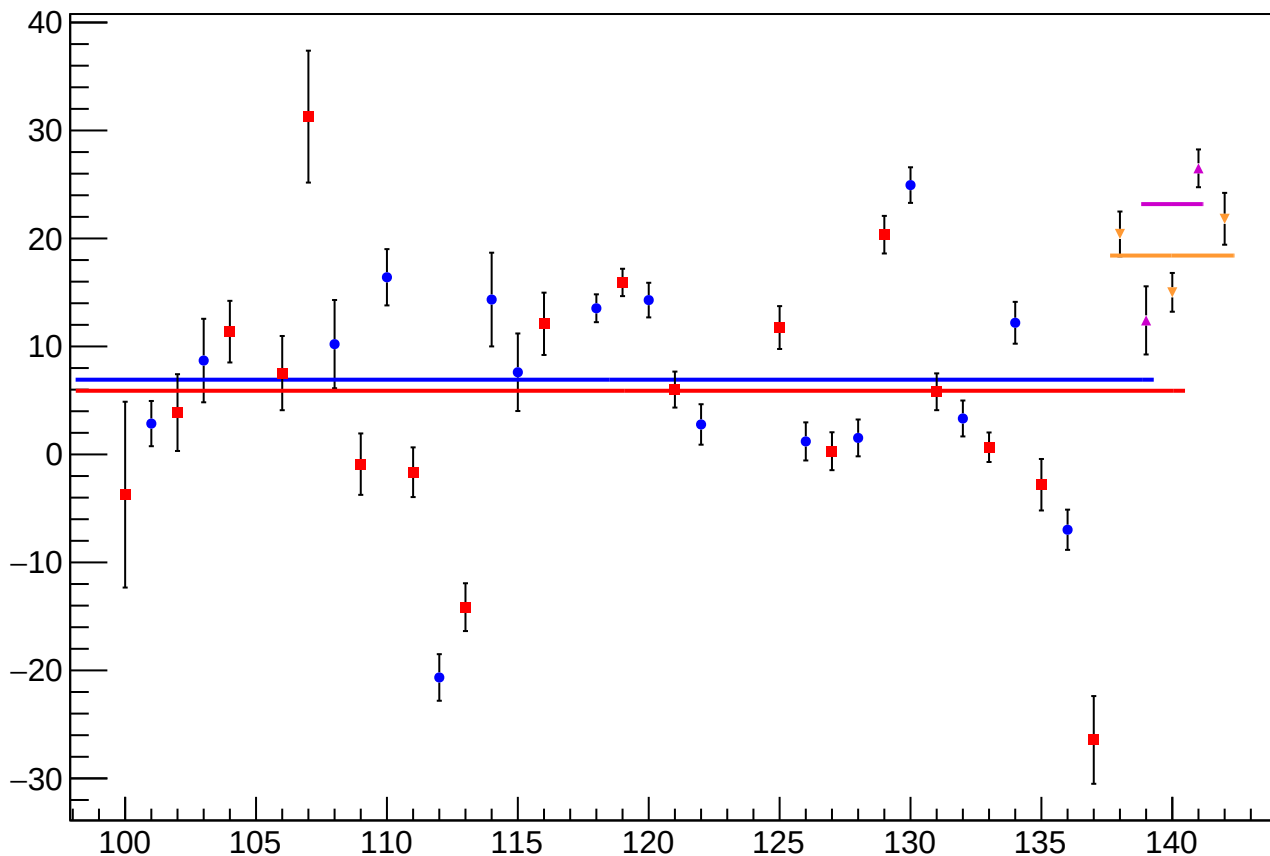
Right: 29.608 $\pm$ 0.343 χ^2 /NDF: 5511.9/33

In: 28.932 $\pm$ 0.456 χ^2 /NDF:2520.9/17

Out: 31.688 $\pm$ 0.452 χ^2 /NDF:3093.2/20

All: 30.322 $\pm$ 0.321 χ^2 /NDF: 5632.6/38

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.922 ± 0.496 $\chi^2/\text{NDF}: 444.3/15$

Left Out: 18.417 ± 1.182 $\chi^2/\text{NDF}: 6.5/2$

Right Out: 5.896 ± 0.502 $\chi^2/\text{NDF}: 367.7/17$

Left In: 23.182 ± 1.531 $\chi^2/\text{NDF}: 15.2/1$

Left: 20.196 ± 0.935 $\chi^2/\text{NDF}: 27.8/4$

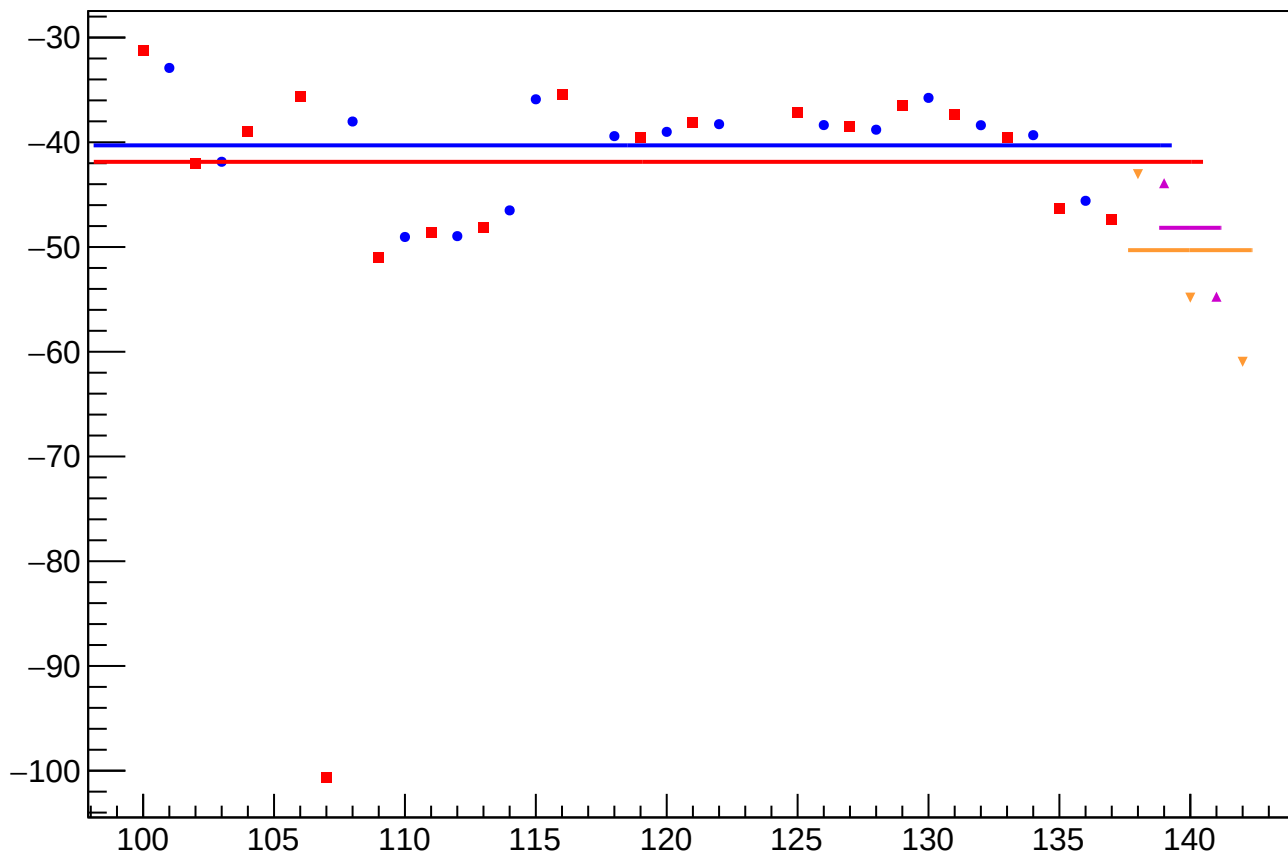
Right: 6.415 ± 0.353 $\chi^2/\text{NDF}: 814.1/33$

In: 8.464 ± 0.471 $\chi^2/\text{NDF}: 561.7/17$

Out: 7.809 ± 0.462 $\chi^2/\text{NDF}: 469.3/20$

All: 8.130 ± 0.330 $\chi^2/\text{NDF}: 1032.0/38$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.293 ± 0.031 χ^2/NDF : 20663.5/15

Left Out: -50.300 ± 0.051 χ^2/NDF : 19338.5/2

Right Out: -41.867 ± 0.032 χ^2/NDF : 58734.8/17

Left In: -48.166 ± 0.053 χ^2/NDF : 9975.9/1

Left: -49.278 ± 0.037 χ^2/NDF : 30159.7/4

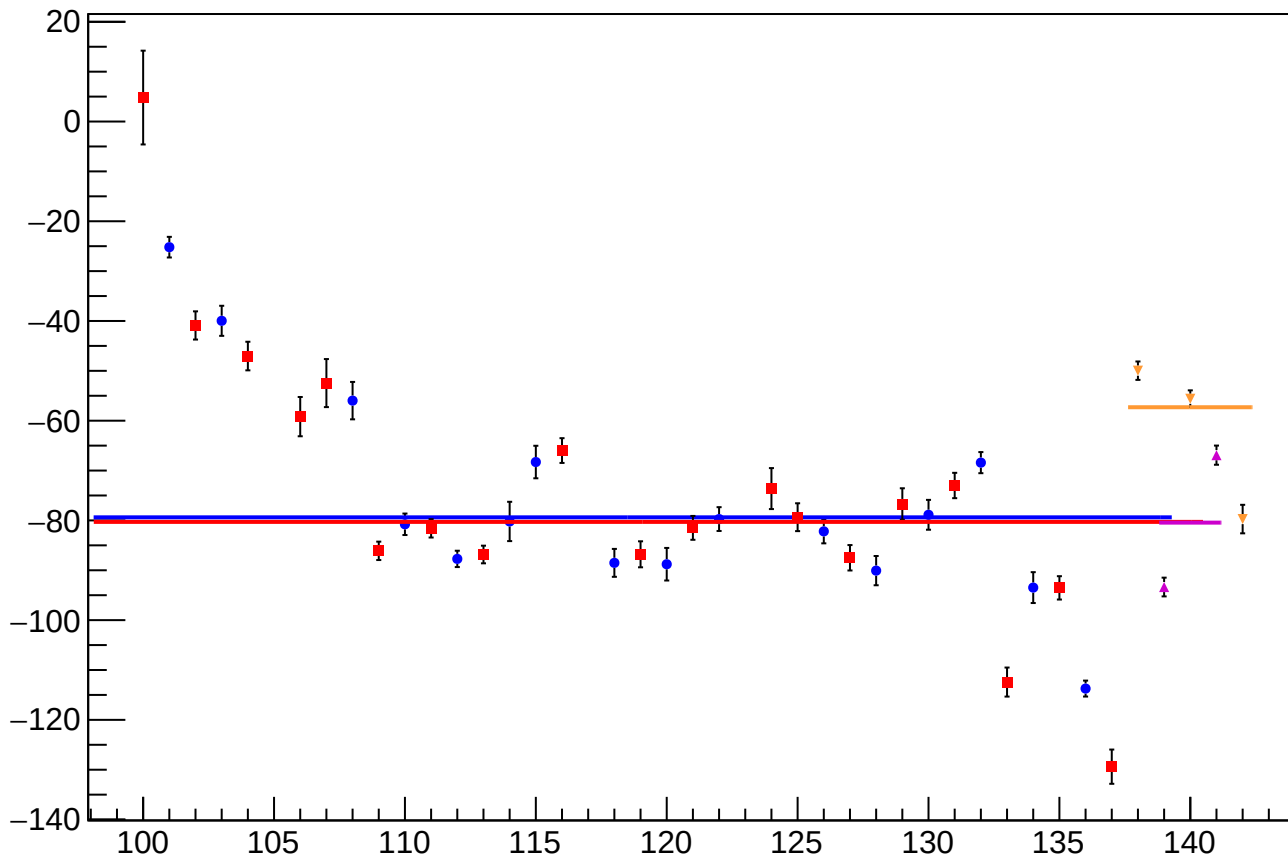
Right: -41.063 ± 0.022 χ^2/NDF : 80626.6/33

In: -42.339 ± 0.027 χ^2/NDF : 46972.3/17

Out: -44.275 ± 0.027 χ^2/NDF : 97771.7/20

All: -43.302 ± 0.019 χ^2/NDF : 147301.3/38

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -79.382 ± 0.611 $\chi^2/\text{NDF}: 1475.9/15$

Left Out: -57.301 ± 1.144 $\chi^2/\text{NDF}: 78.3/2$

Right Out: -80.294 ± 0.604 $\chi^2/\text{NDF}: 914.7/18$

Left In: -80.442 ± 1.344 $\chi^2/\text{NDF}: 96.7/1$

Left: -67.018 ± 0.871 $\chi^2/\text{NDF}: 347.0/4$

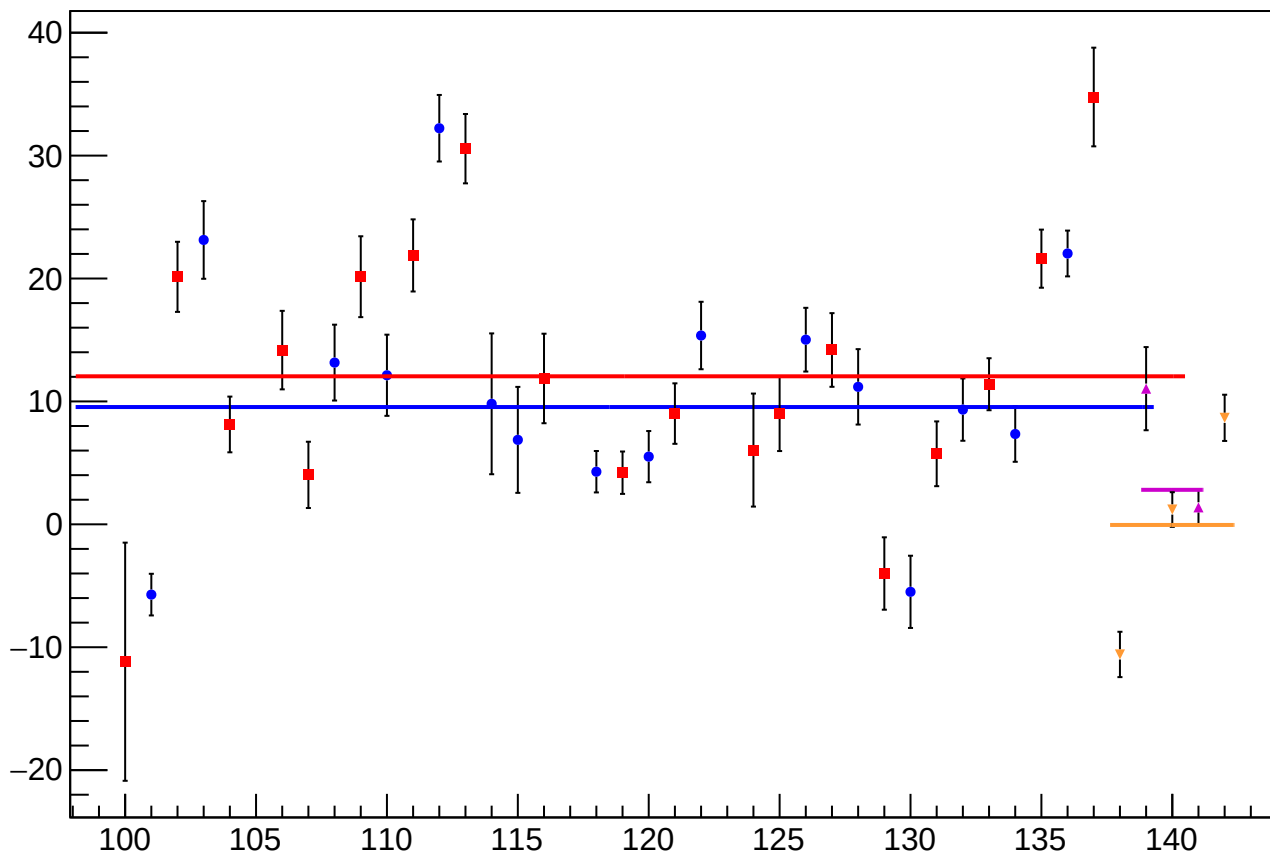
Right: -79.844 ± 0.430 $\chi^2/\text{NDF}: 2391.7/34$

In: -79.564 ± 0.556 $\chi^2/\text{NDF}: 1573.1/17$

Out: -75.278 ± 0.534 $\chi^2/\text{NDF}: 1309.1/21$

All: -77.334 ± 0.385 $\chi^2/\text{NDF}: 2913.1/39$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.543 ± 0.621 $\chi^2/\text{NDF}: 267.1/15$

Left Out: -0.052 ± 0.962 $\chi^2/\text{NDF}: 54.9/2$

Right Out: 12.044 ± 0.637 $\chi^2/\text{NDF}: 195.8/18$

Left In: 2.807 ± 1.300 $\chi^2/\text{NDF}: 6.9/1$

Left: 0.960 ± 0.773 $\chi^2/\text{NDF}: 65.0/4$

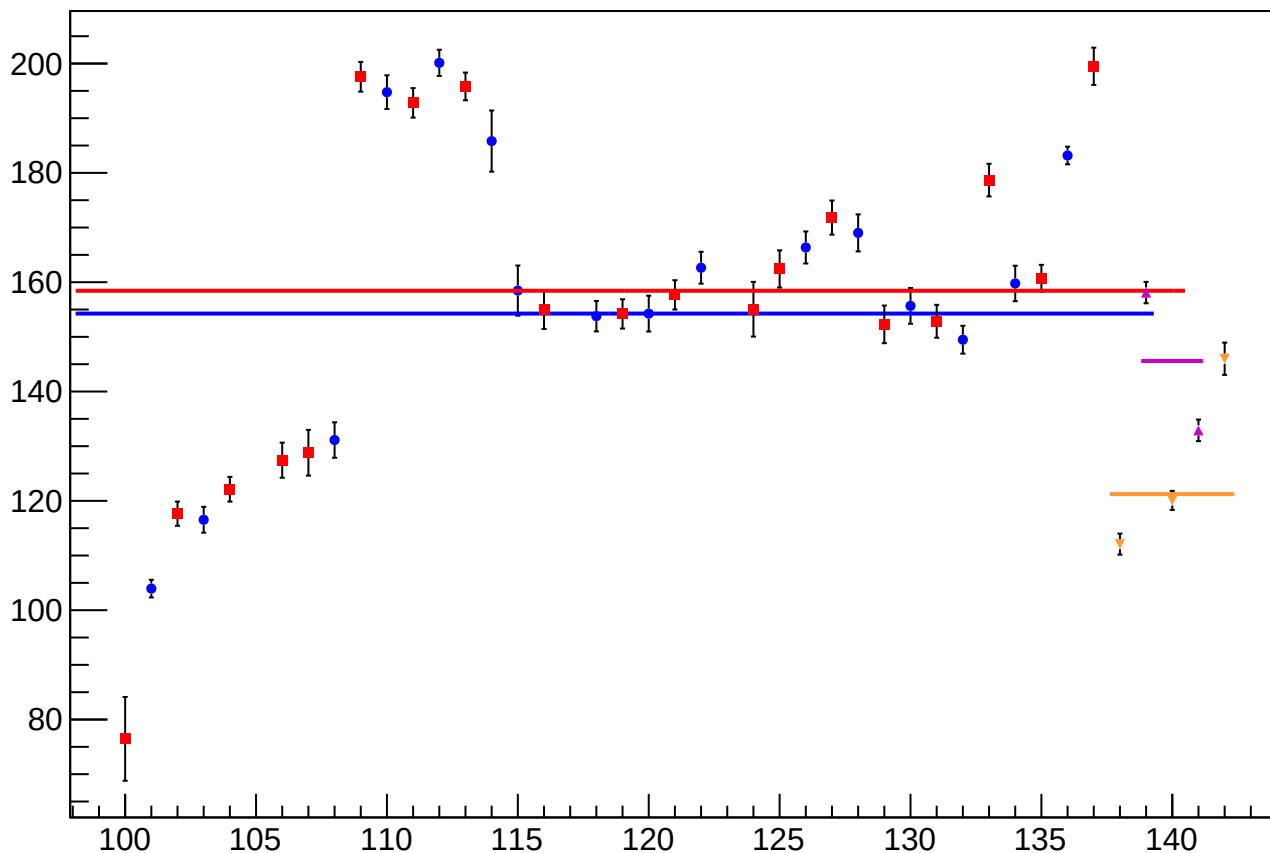
Right: 10.762 ± 0.445 $\chi^2/\text{NDF}: 470.8/34$

In: 8.290 ± 0.561 $\chi^2/\text{NDF}: 295.9/17$

Out: 8.359 ± 0.531 $\chi^2/\text{NDF}: 360.6/21$

All: 8.327 ± 0.386 $\chi^2/\text{NDF}: 656.4/39$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 154.260 $\pm$ 0.662 χ^2/NDF : 2213.7/15

Left Out: 121.238 $\pm$ 1.183 χ^2/NDF : 93.5/2

Right Out: 158.435 $\pm$ 0.683 χ^2/NDF : 1664.2/18

Left In: 145.588 $\pm$ 1.390 χ^2/NDF : 82.2/1

Left: 131.466 $\pm$ 0.901 χ^2/NDF : 353.7/4

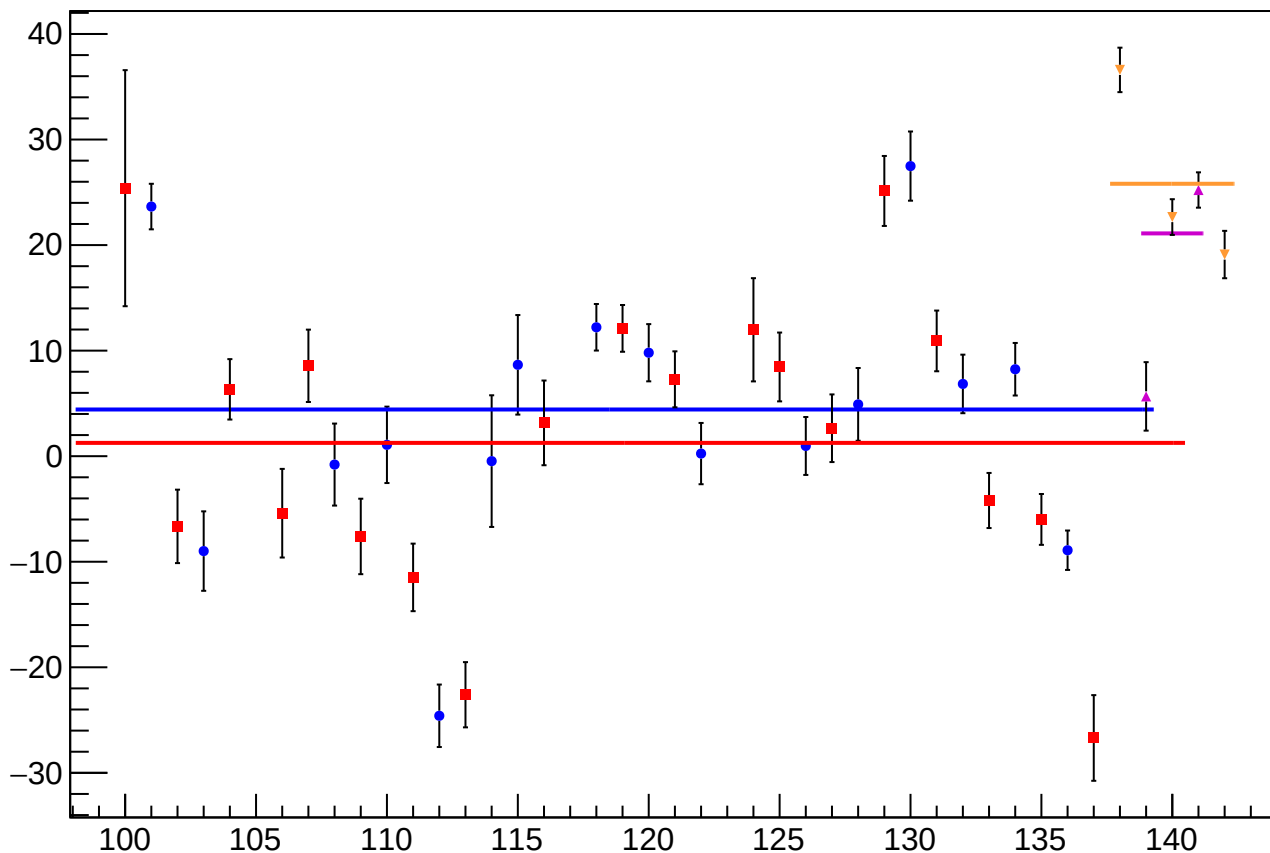
Right: 156.282 $\pm$ 0.475 χ^2/NDF : 3897.2/34

In: 152.658 $\pm$ 0.597 χ^2/NDF : 2327.6/17

Out: 149.144 $\pm$ 0.591 χ^2/NDF : 2499.5/21

All: 150.882 $\pm$ 0.420 χ^2/NDF : 4844.5/39

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.424 $\pm$ 0.714 χ^2/NDF : 316.1/15

Left Out: 25.809 $\pm$ 1.137 χ^2/NDF :38.6/2

Right Out: 1.260 $\pm$ 0.732 χ^2/NDF : 264.9/18

Left In: 21.107 $\pm$ 1.488 χ^2/NDF :28.7/1

Left: 24.074 $\pm$ 0.904 χ^2/NDF : 73.6/4

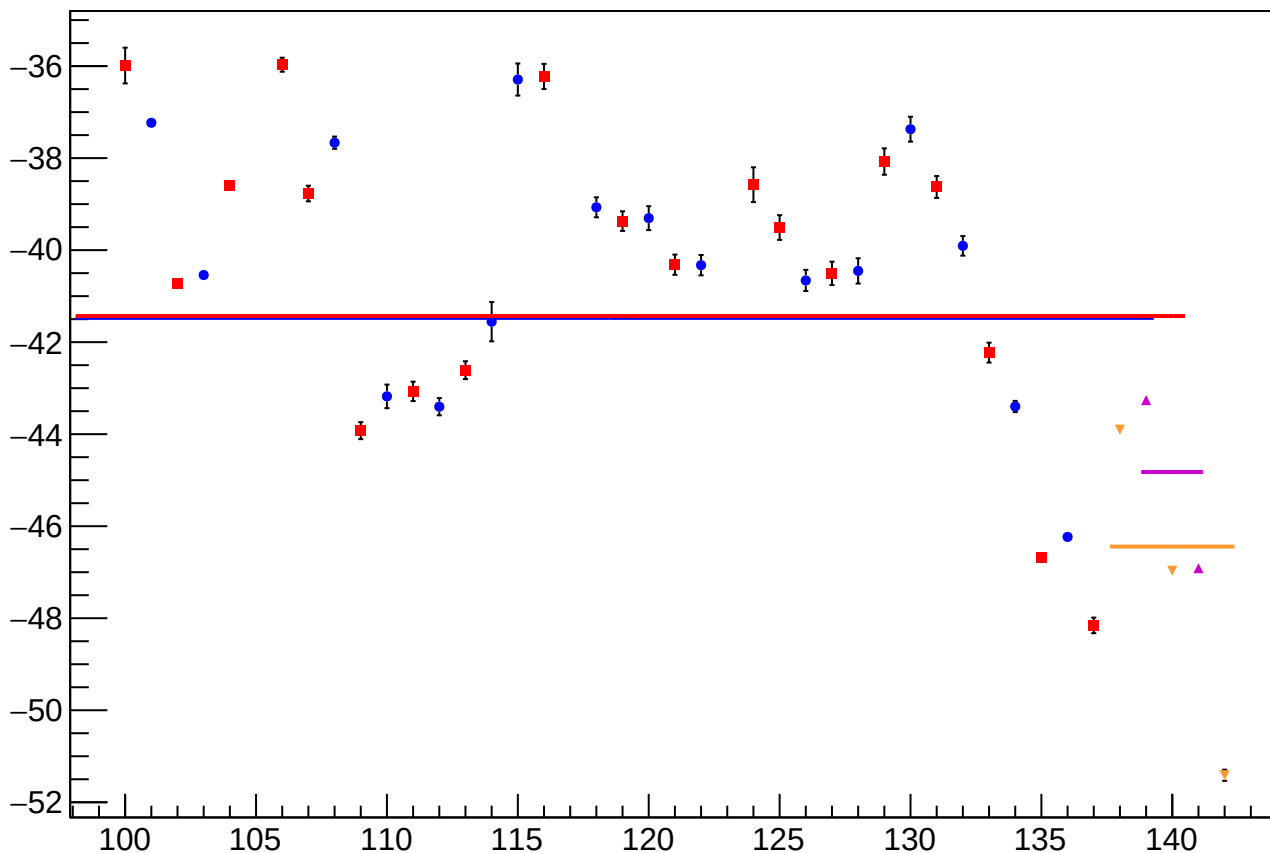
Right: 2.881 $\pm$ 0.511 χ^2/NDF : 590.5/34

In: 7.547 $\pm$ 0.644 χ^2/NDF :447.0/17

Out: 8.444 $\pm$ 0.615 χ^2/NDF :633.0/21

All: 8.016 $\pm$ 0.445 χ^2/NDF : 1081.0/39

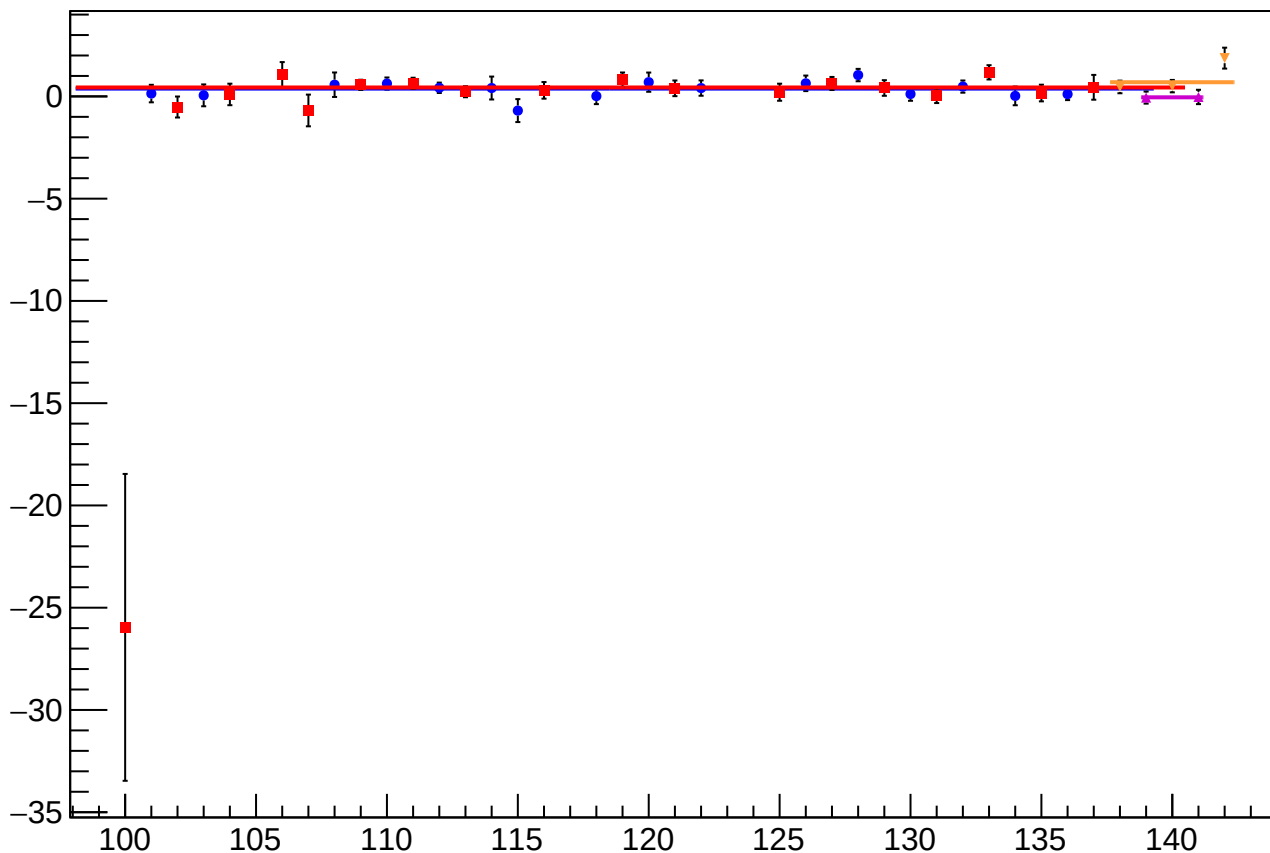
reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.472 $\pm$ 0.038 χ^2 /NDF: 7912.0/15
 Left Out: -46.443 $\pm$ 0.050 χ^2 /NDF: 2826.9/2
 Right Out: -41.433 $\pm$ 0.040 χ^2 /NDF: 8225.4/18
 Left In: -44.822 $\pm$ 0.053 χ^2 /NDF: 1169.2/1

Left: -45.681 $\pm$ 0.036 χ^2 /NDF: 4494.4/4
 Right: -41.453 $\pm$ 0.027 χ^2 /NDF: 16137.9/34
 In: -42.618 $\pm$ 0.031 χ^2 /NDF: 11725.3/17
 Out: -43.369 $\pm$ 0.031 χ^2 /NDF: 17265.9/21
 All: -42.993 $\pm$ 0.022 χ^2 /NDF: 29286.1/39

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.092 χ^2 /NDF: 14.0/15

Left Out: 0.693 $\pm$ 0.199 χ^2 /NDF: 6.3/2

Right Out: 0.436 $\pm$ 0.090 χ^2 /NDF: 29.0/17

Left In: -0.045 $\pm$ 0.226 χ^2 /NDF: 0.0/1

Left: 0.370 $\pm$ 0.150 χ^2 /NDF: 12.3/4

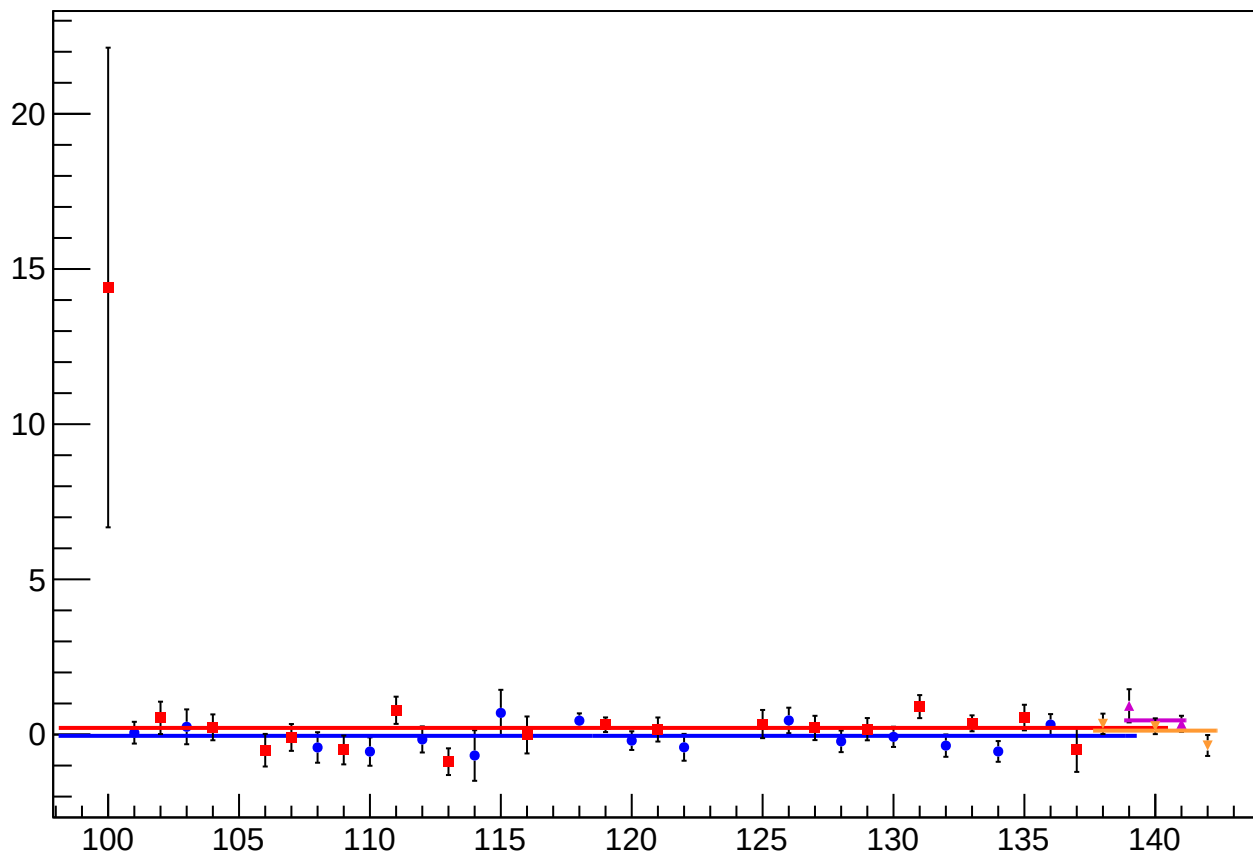
Right: 0.410 $\pm$ 0.064 χ^2 /NDF: 43.2/33

In: 0.321 $\pm$ 0.085 χ^2 /NDF: 17.1/17

Out: 0.480 $\pm$ 0.082 χ^2 /NDF: 36.6/20

All: 0.404 $\pm$ 0.059 χ^2 /NDF: 55.5/38

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.043 ± 0.094 $\chi^2/\text{NDF}: 15.0/15$

Left Out: 0.125 ± 0.173 $\chi^2/\text{NDF}: 2.8/2$

Right Out: 0.213 ± 0.095 $\chi^2/\text{NDF}: 22.4/17$

Left In: 0.456 ± 0.233 $\chi^2/\text{NDF}: 1.0/1$

Left: 0.243 ± 0.139 $\chi^2/\text{NDF}: 5.0/4$

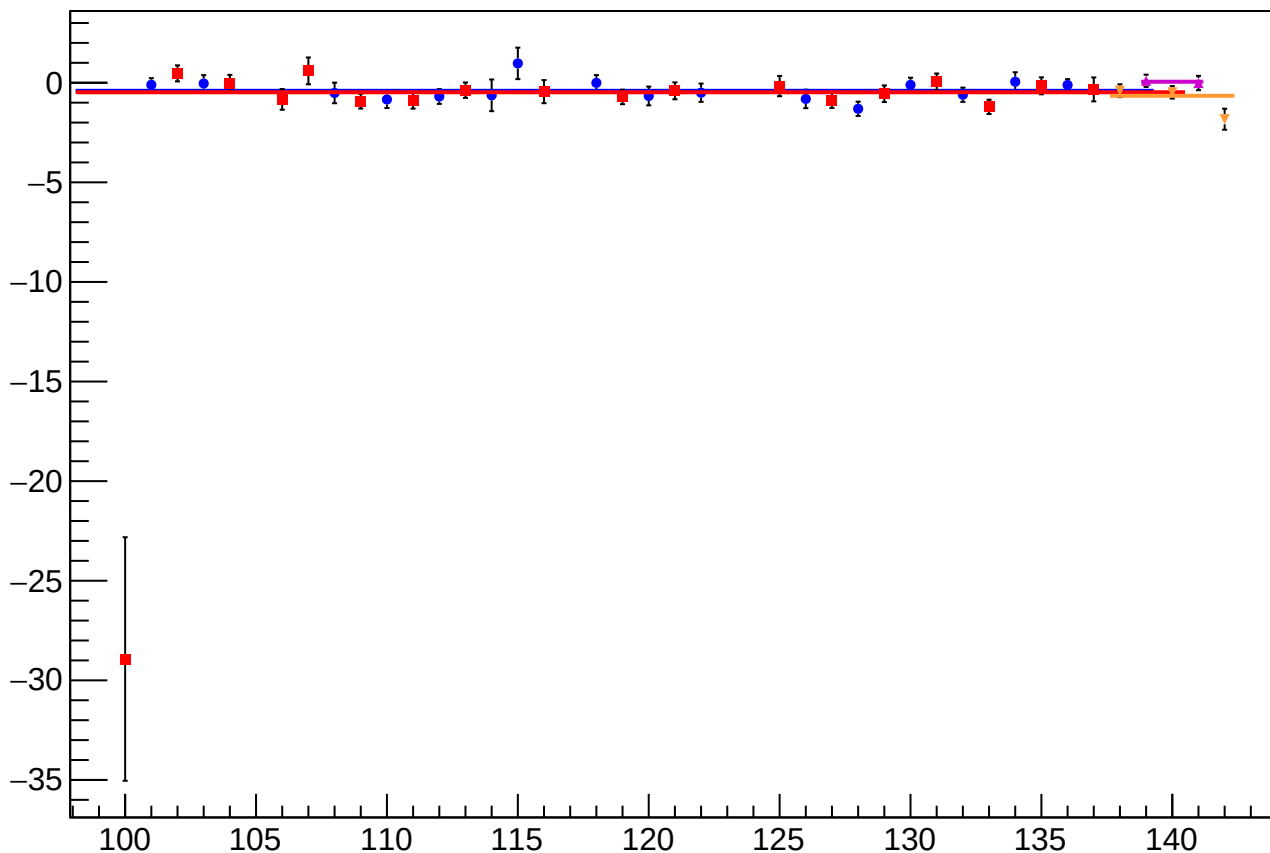
Right: 0.084 ± 0.067 $\chi^2/\text{NDF}: 41.1/33$

In: 0.028 ± 0.087 $\chi^2/\text{NDF}: 19.9/17$

Out: 0.193 ± 0.083 $\chi^2/\text{NDF}: 25.4/20$

All: 0.114 ± 0.060 $\chi^2/\text{NDF}: 47.2/38$

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.406 ± 0.103 $\chi^2/\text{NDF}: 17.8/15$

Left Out: -0.655 ± 0.206 $\chi^2/\text{NDF}: 5.9/2$

Right Out: -0.478 ± 0.104 $\chi^2/\text{NDF}: 42.3/17$

Left In: 0.051 ± 0.234 $\chi^2/\text{NDF}: 0.1/1$

Left: -0.346 ± 0.155 $\chi^2/\text{NDF}: 11.1/4$

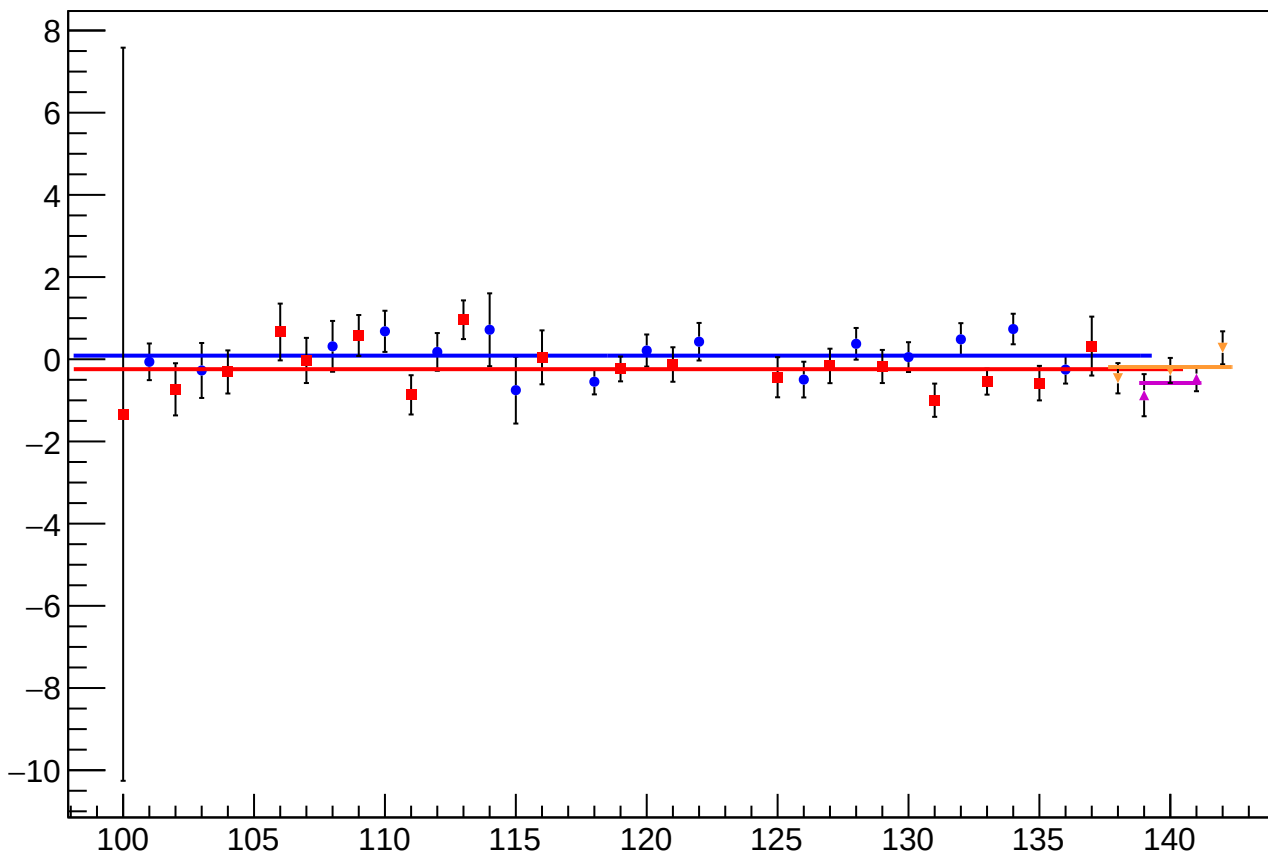
Right: -0.441 ± 0.073 $\chi^2/\text{NDF}: 60.3/33$

In: -0.331 ± 0.094 $\chi^2/\text{NDF}: 21.0/17$

Out: -0.514 ± 0.093 $\chi^2/\text{NDF}: 48.7/20$

All: -0.424 ± 0.066 $\chi^2/\text{NDF}: 71.7/38$

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.088 ± 0.108 χ^2/NDF : 15.9/15

Left Out: -0.189 ± 0.203 χ^2/NDF : 2.0/2

Right Out: -0.241 ± 0.110 χ^2/NDF : 19.6/17

Left In: -0.578 ± 0.263 χ^2/NDF : 0.5/1

Left: -0.334 ± 0.160 χ^2/NDF : 3.8/4

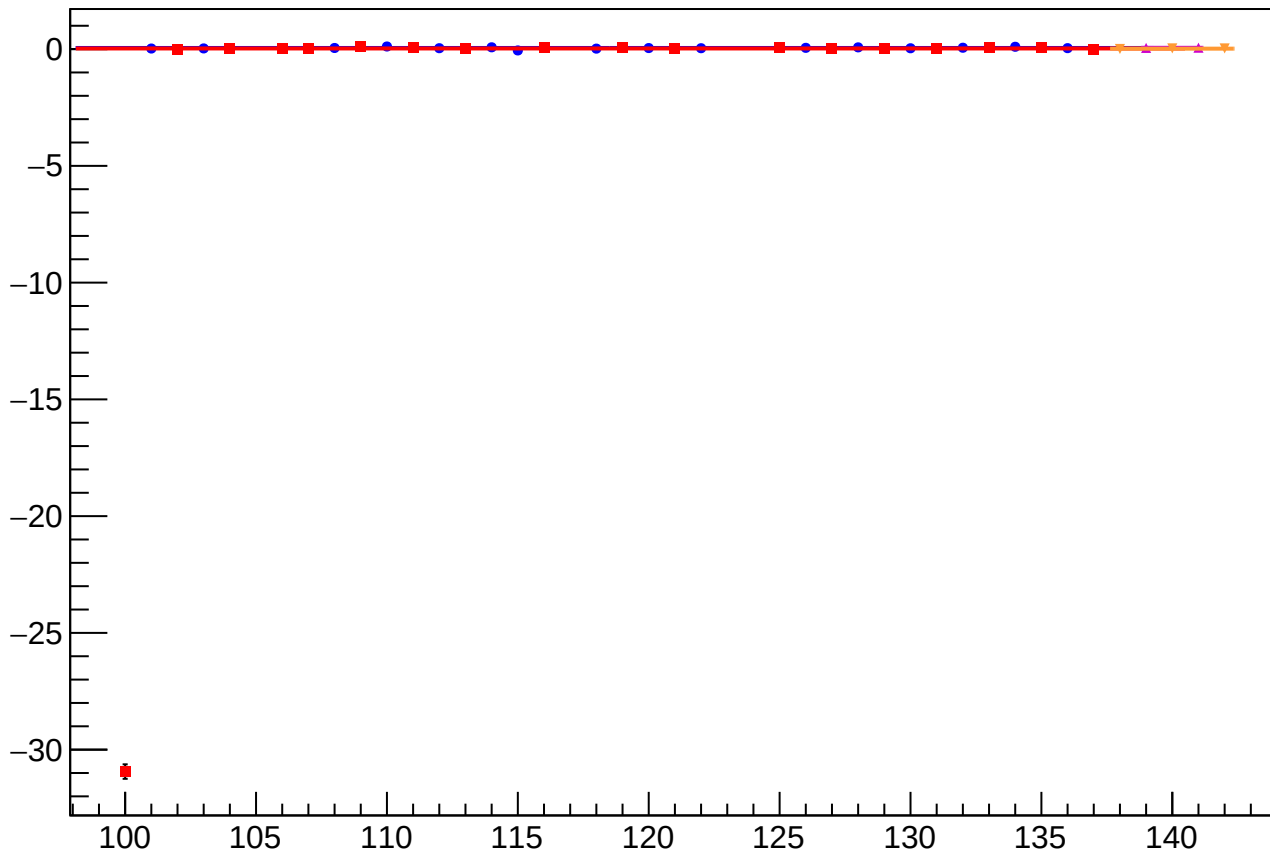
Right: -0.075 ± 0.077 χ^2/NDF : 40.0/33

In: -0.009 ± 0.100 χ^2/NDF : 21.8/17

Out: -0.230 ± 0.096 χ^2/NDF : 21.6/20

All: -0.123 ± 0.069 χ^2/NDF : 46.0/38

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.049 $\pm$ 0.006 χ^2 /NDF: 19.2/15

Left Out: 0.020 $\pm$ 0.009 χ^2 /NDF: 2.0/2

Right Out: 0.028 $\pm$ 0.006 χ^2 /NDF: 10020.9/17

Left In: 0.055 $\pm$ 0.009 χ^2 /NDF: 0.2/1

Left: 0.037 $\pm$ 0.006 χ^2 /NDF: 10.7/4

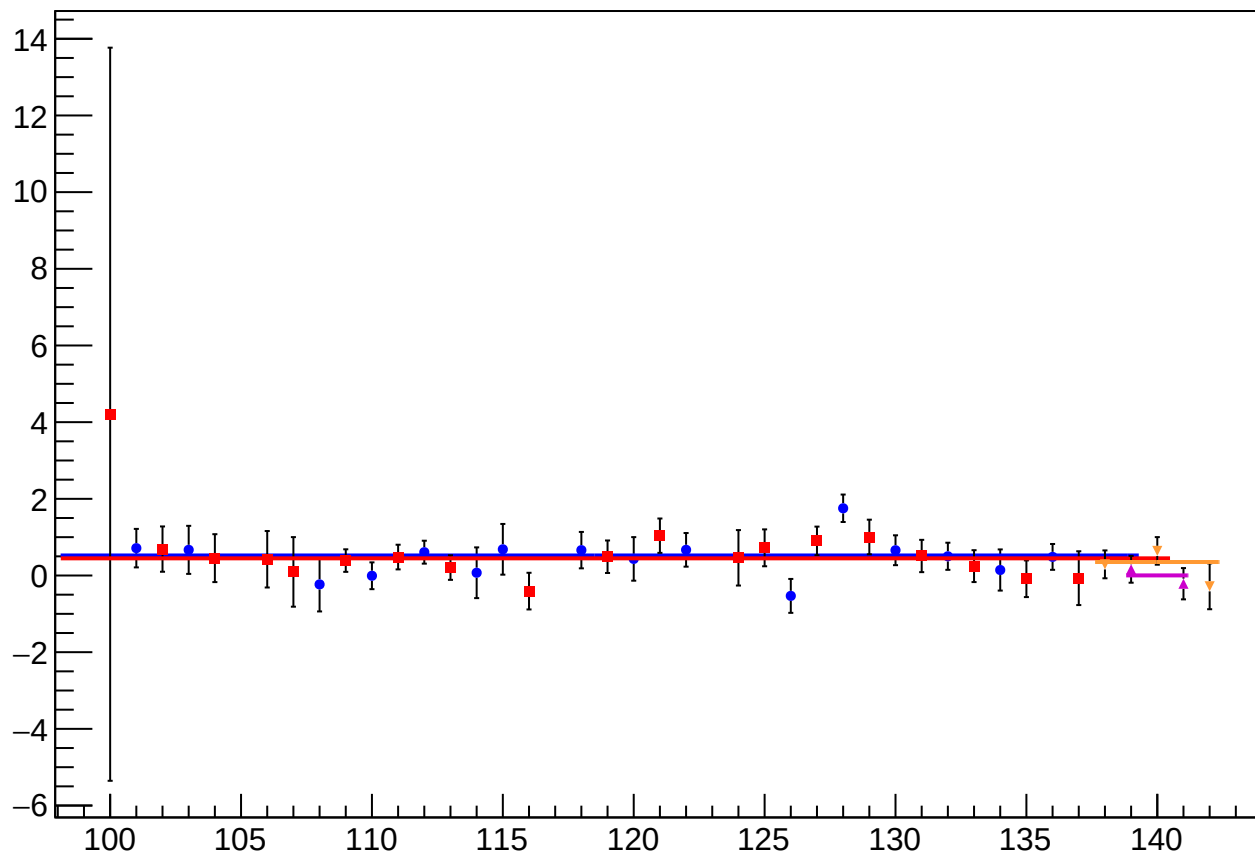
Right: 0.038 $\pm$ 0.004 χ^2 /NDF: 10045.5/33

In: 0.051 $\pm$ 0.005 χ^2 /NDF: 19.8/17

Out: 0.025 $\pm$ 0.005 χ^2 /NDF: 10023.5/20

All: 0.038 $\pm$ 0.004 χ^2 /NDF: 10056.3/38

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.522 ± 0.108 $\chi^2/\text{NDF}: 22.6/15$

Left Out: 0.352 ± 0.235 $\chi^2/\text{NDF}: 1.8/2$

Right Out: 0.448 ± 0.105 $\chi^2/\text{NDF}: 11.4/18$

Left In: 0.003 ± 0.266 $\chi^2/\text{NDF}: 0.5/1$

Left: 0.199 ± 0.176 $\chi^2/\text{NDF}: 3.3/4$

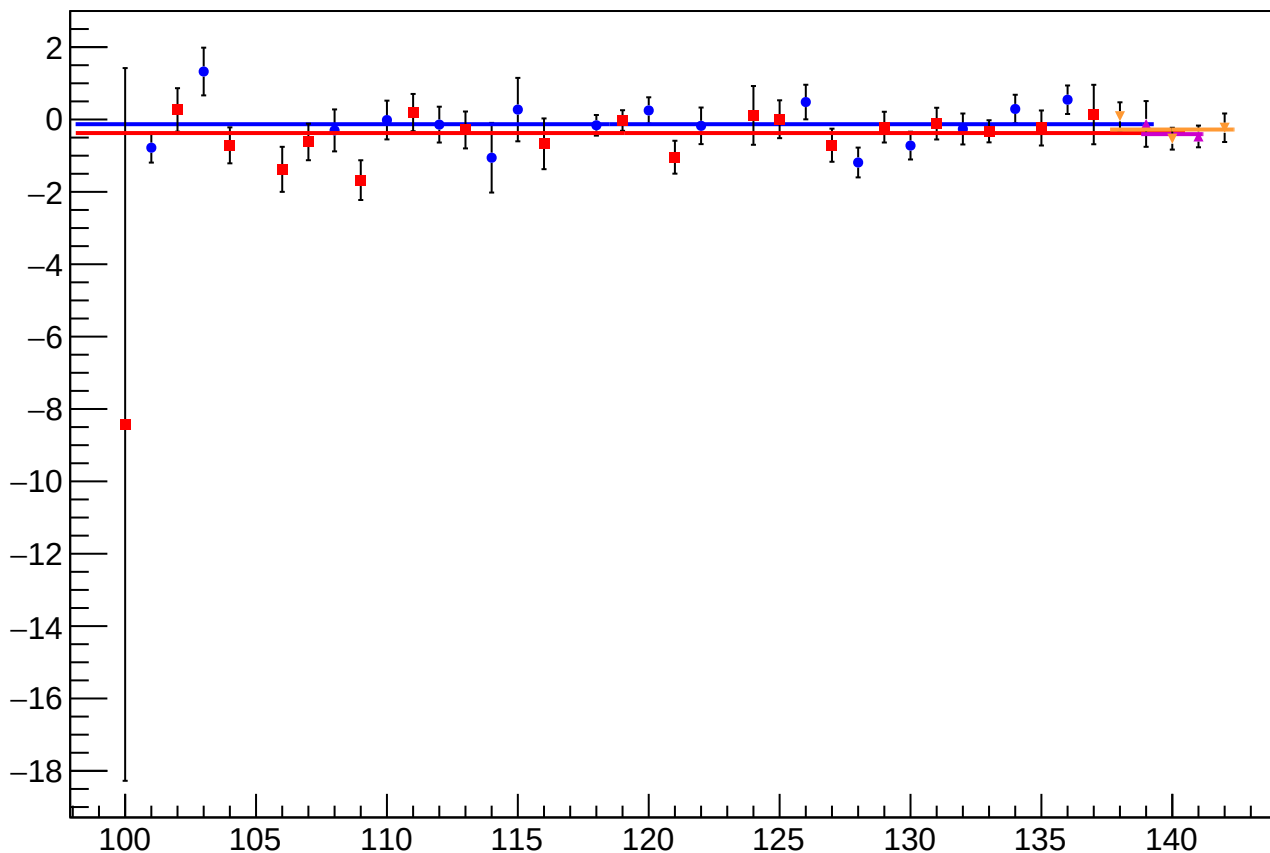
Right: 0.484 ± 0.075 $\chi^2/\text{NDF}: 34.3/34$

In: 0.448 ± 0.100 $\chi^2/\text{NDF}: 26.4/17$

Out: 0.432 ± 0.096 $\chi^2/\text{NDF}: 13.3/21$

All: 0.440 ± 0.069 $\chi^2/\text{NDF}: 39.7/39$

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.130 ± 0.112 χ^2/NDF : 24.6/15

Left Out: -0.277 ± 0.204 χ^2/NDF : 1.6/2

Right Out: -0.375 ± 0.111 χ^2/NDF : 18.2/18

Left In: -0.405 ± 0.271 χ^2/NDF : 0.2/1

Left: -0.323 ± 0.163 χ^2/NDF : 2.0/4

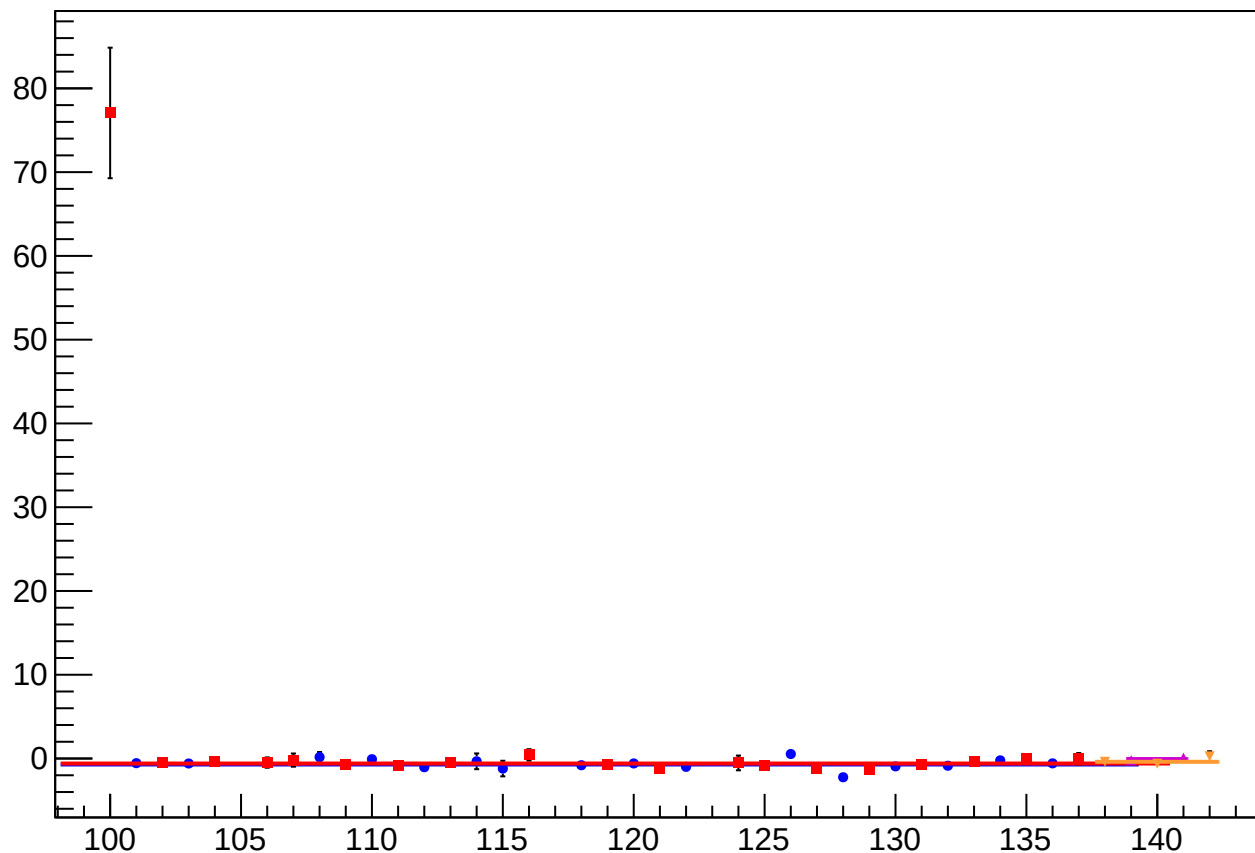
Right: -0.253 ± 0.079 χ^2/NDF : 45.2/34

In: -0.170 ± 0.103 χ^2/NDF : 25.7/17

Out: -0.352 ± 0.098 χ^2/NDF : 20.0/21

All: -0.266 ± 0.071 χ^2/NDF : 47.3/39

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.713 ± 0.122 χ^2/NDF : 24.9/15

Left Out: -0.392 ± 0.243 χ^2/NDF : 1.5/2

Right Out: -0.597 ± 0.122 χ^2/NDF : 110.9/18

Left In: -0.065 ± 0.275 χ^2/NDF : 0.3/1

Left: -0.248 ± 0.182 χ^2/NDF : 2.6/4

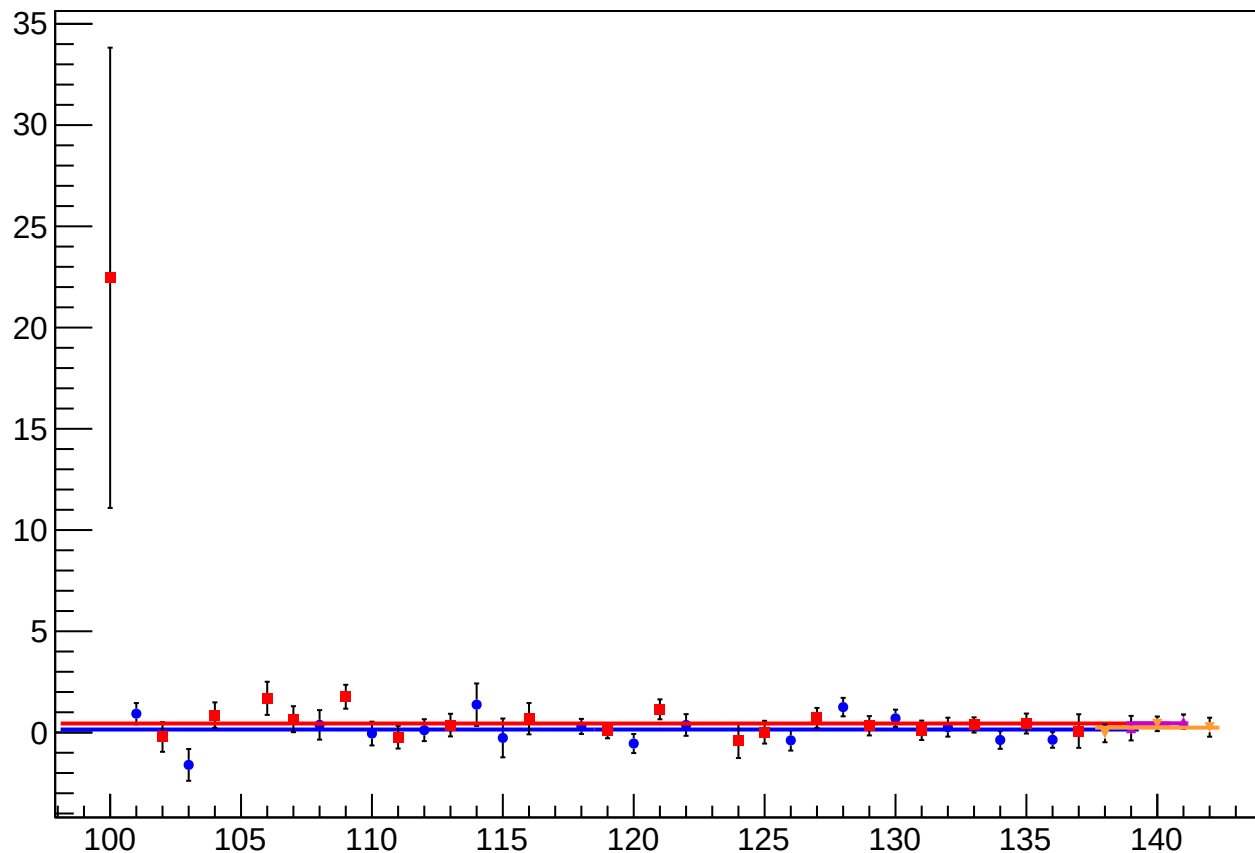
Right: -0.655 ± 0.086 χ^2/NDF : 136.3/34

In: -0.607 ± 0.111 χ^2/NDF : 29.9/17

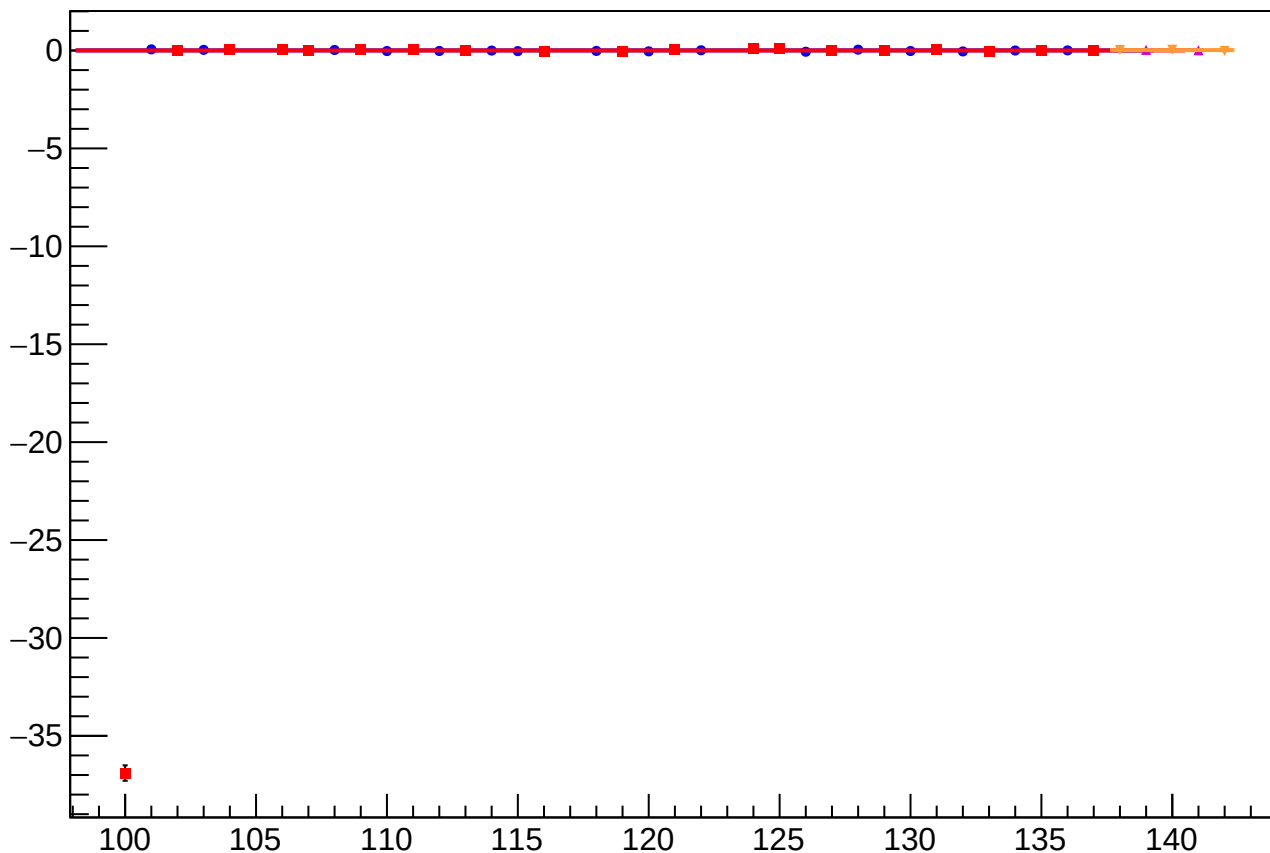
Out: -0.556 ± 0.109 χ^2/NDF : 113.0/21

All: -0.581 ± 0.078 χ^2/NDF : 142.9/39

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.006+/-0.007 χ^2/NDF : 17.6/15

Left Out: 0.021+/-0.010 χ^2/NDF : 5.1/2

Right Out: 0.002+/-0.007 χ^2/NDF : 8753.3/18

Left In: 0.025+/-0.010 χ^2/NDF : 1.0/1

Left: 0.023+/-0.007 χ^2/NDF : 6.1/4

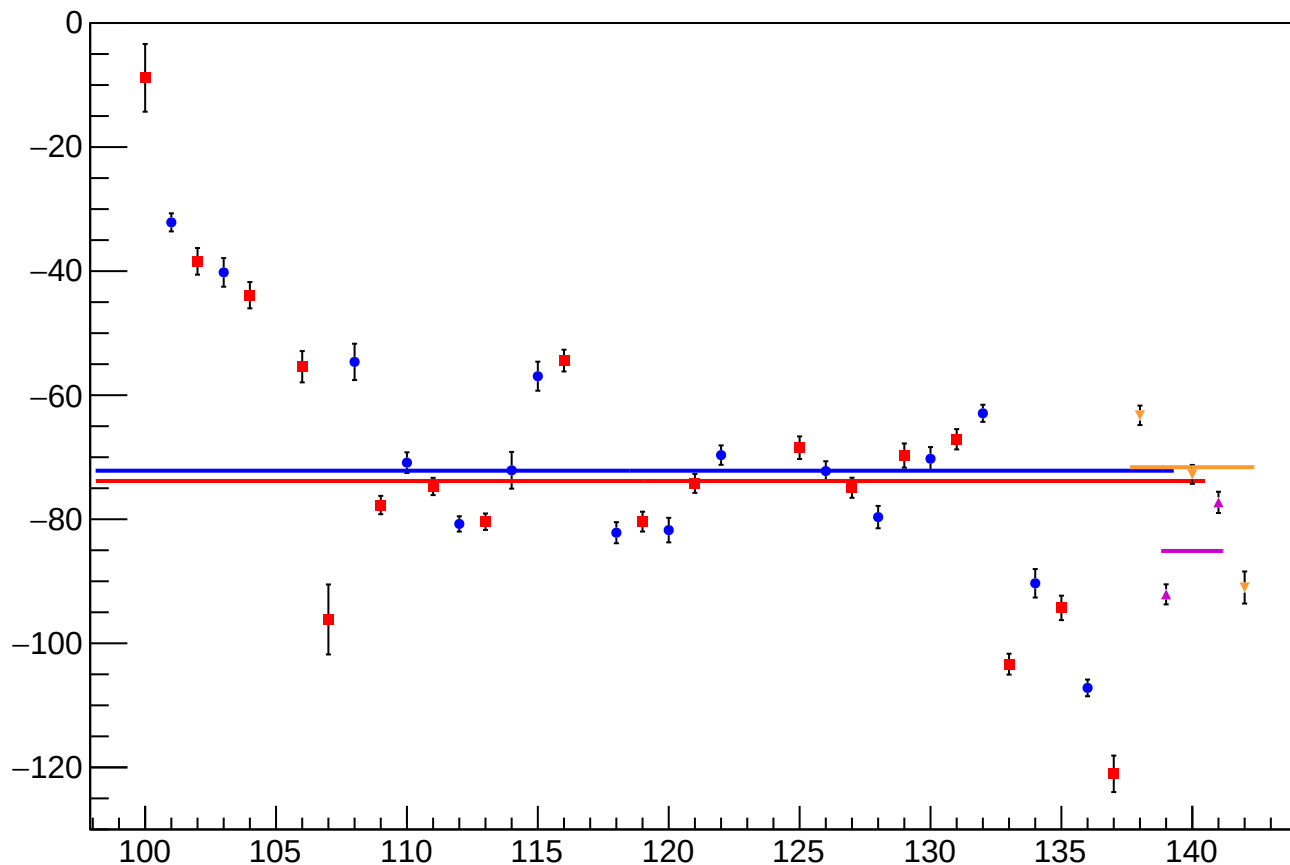
Right: 0.004+/-0.005 χ^2/NDF : 8771.0/34

In: 0.013+/-0.006 χ^2/NDF : 20.9/17

Out: 0.009+/-0.006 χ^2/NDF : 8760.6/21

All: 0.011+/-0.004 χ^2/NDF : 8781.7/39

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -72.173 ± 0.432 χ^2/NDF : 1936.0/15

Left Out: -71.613 ± 1.006 χ^2/NDF : 85.2/2

Right Out: -73.831 ± 0.431 χ^2/NDF : 1557.7/17

Left In: -85.111 ± 1.176 χ^2/NDF : 39.7/1

Left: -77.315 ± 0.764 χ^2/NDF : 200.9/4

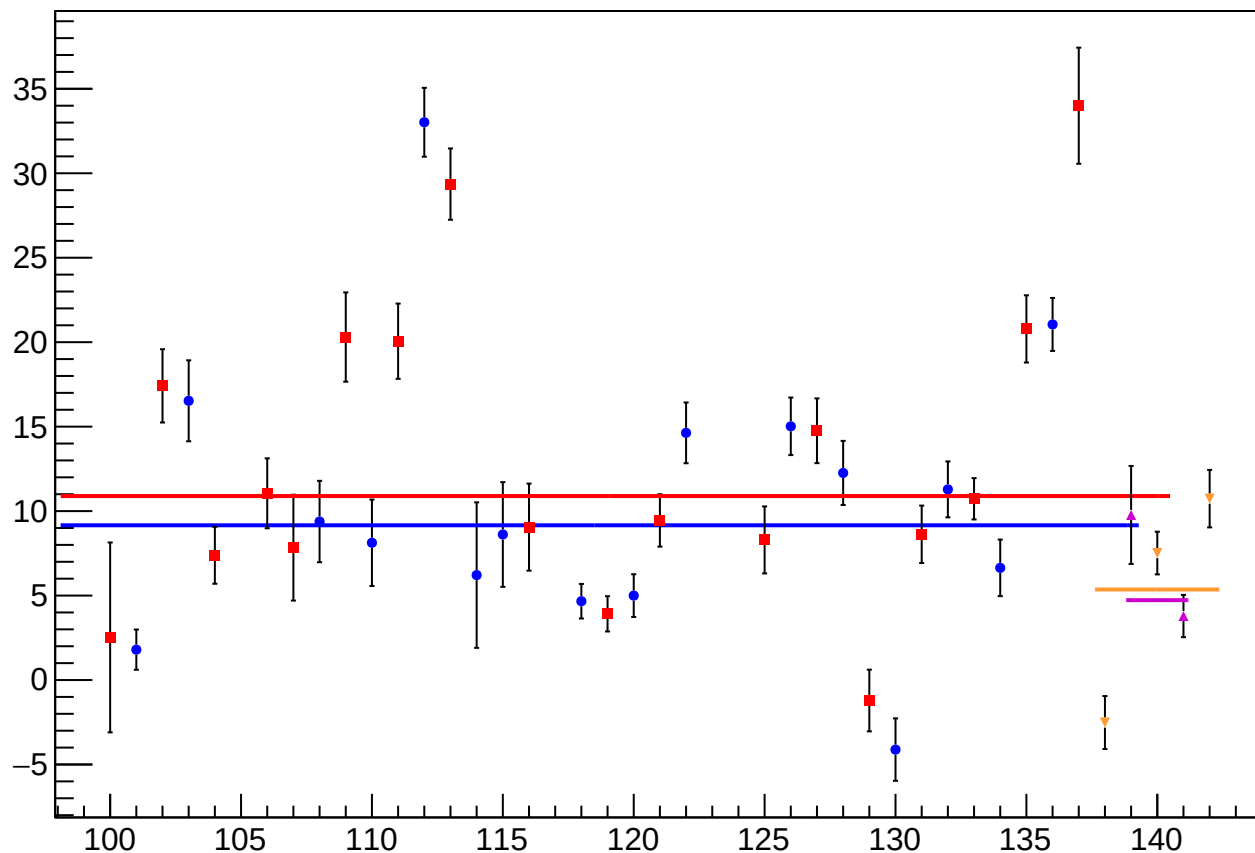
Right: -73.004 ± 0.305 χ^2/NDF : 3501.0/33

In: -73.711 ± 0.405 χ^2/NDF : 2082.3/17

Out: -73.487 ± 0.396 χ^2/NDF : 1647.0/20

All: -73.596 ± 0.283 χ^2/NDF : 3729.4/38

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.161 ± 0.425 $\chi^2/\text{NDF}: 352.1/15$

Left Out: 5.360 ± 0.852 $\chi^2/\text{NDF}: 38.2/2$

Right Out: 10.892 ± 0.440 $\chi^2/\text{NDF}: 290.2/17$

Left In: 4.728 ± 1.149 $\chi^2/\text{NDF}: 3.6/1$

Left: 5.136 ± 0.684 $\chi^2/\text{NDF}: 41.9/4$

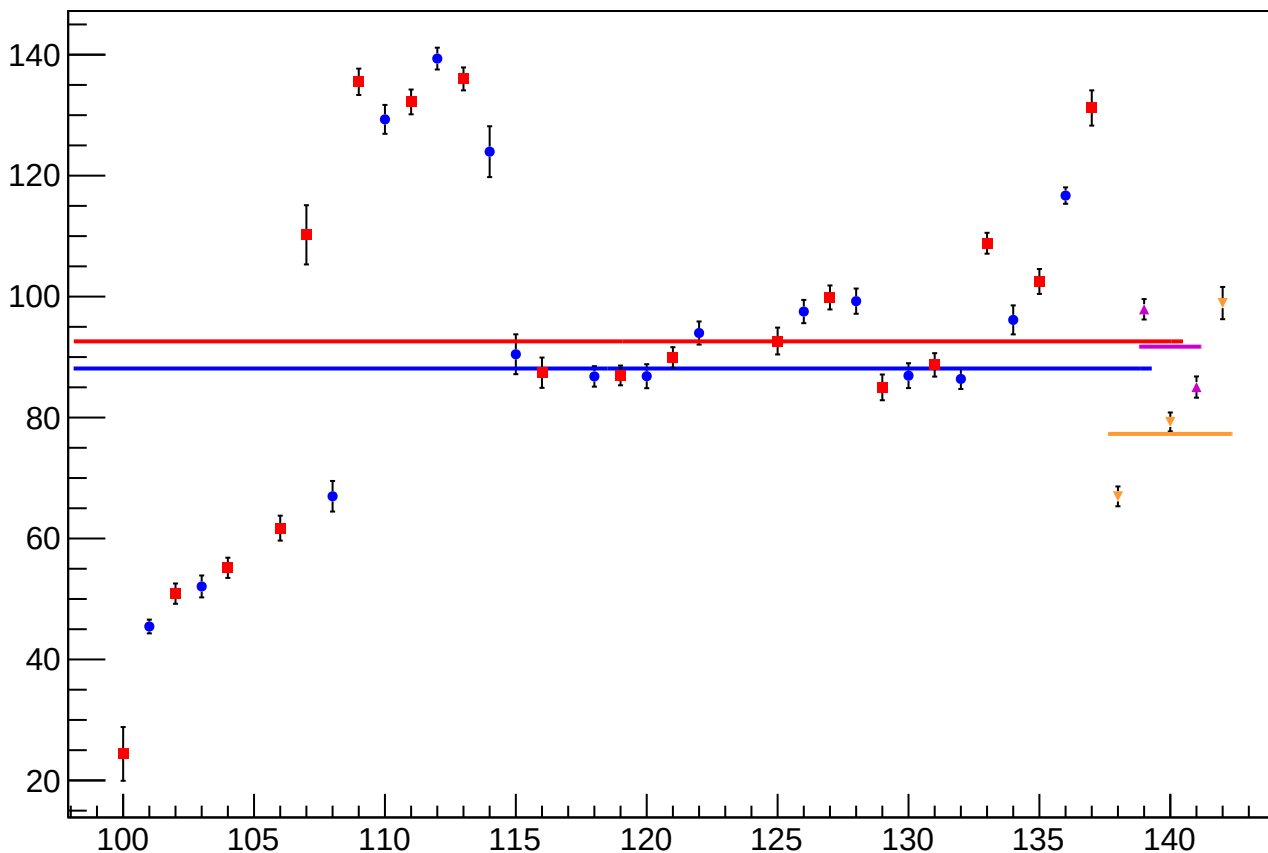
Right: 9.996 ± 0.306 $\chi^2/\text{NDF}: 650.3/33$

In: 8.627 ± 0.399 $\chi^2/\text{NDF}: 368.8/17$

Out: 9.726 ± 0.391 $\chi^2/\text{NDF}: 361.6/20$

All: 9.187 ± 0.279 $\chi^2/\text{NDF}: 734.3/38$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 88.109+/-0.469 χ^2/NDF : 3561.7/15

Left Out: 77.295+/-1.041 χ^2/NDF :107.2/2

Right Out: 92.596+/-0.483 χ^2/NDF : 3211.0/17

Left In: 91.723+/-1.217 χ^2/NDF :27.9/1

Left: 83.391+/-0.791 χ^2/NDF : 216.2/4

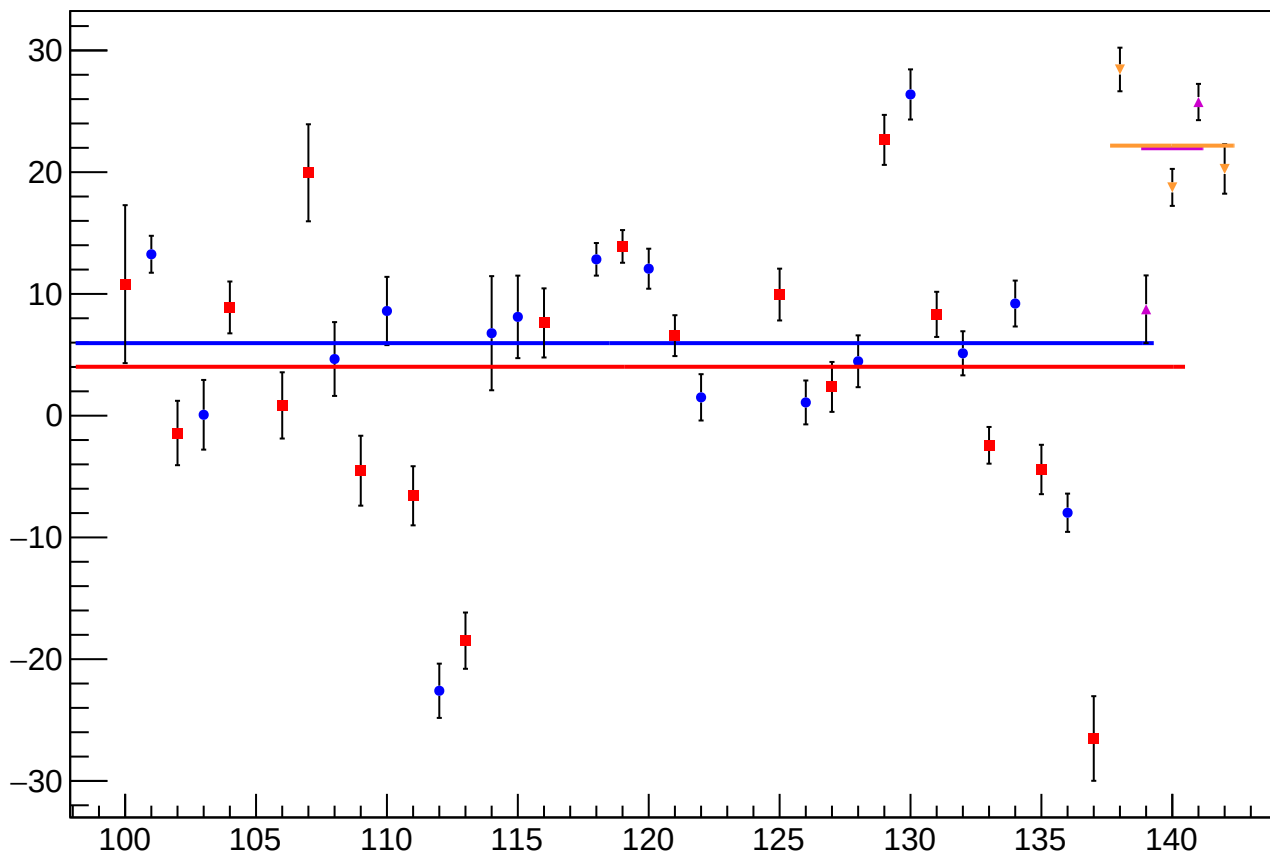
Right: 90.284+/-0.336 χ^2/NDF : 6817.1/33

In: 88.576+/-0.437 χ^2/NDF :3597.2/17

Out: 89.884+/-0.438 χ^2/NDF :3496.0/20

All: 89.229+/-0.310 χ^2/NDF : 7097.7/38

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.958 ± 0.495 $\chi^2/\text{NDF}: 426.8/15$

Left Out: 22.180 ± 1.006 $\chi^2/\text{NDF}: 18.2/2$

Right Out: 4.017 ± 0.510 $\chi^2/\text{NDF}: 417.7/17$

Left In: 21.965 ± 1.313 $\chi^2/\text{NDF}: 29.1/1$

Left: 22.101 ± 0.799 $\chi^2/\text{NDF}: 47.3/4$

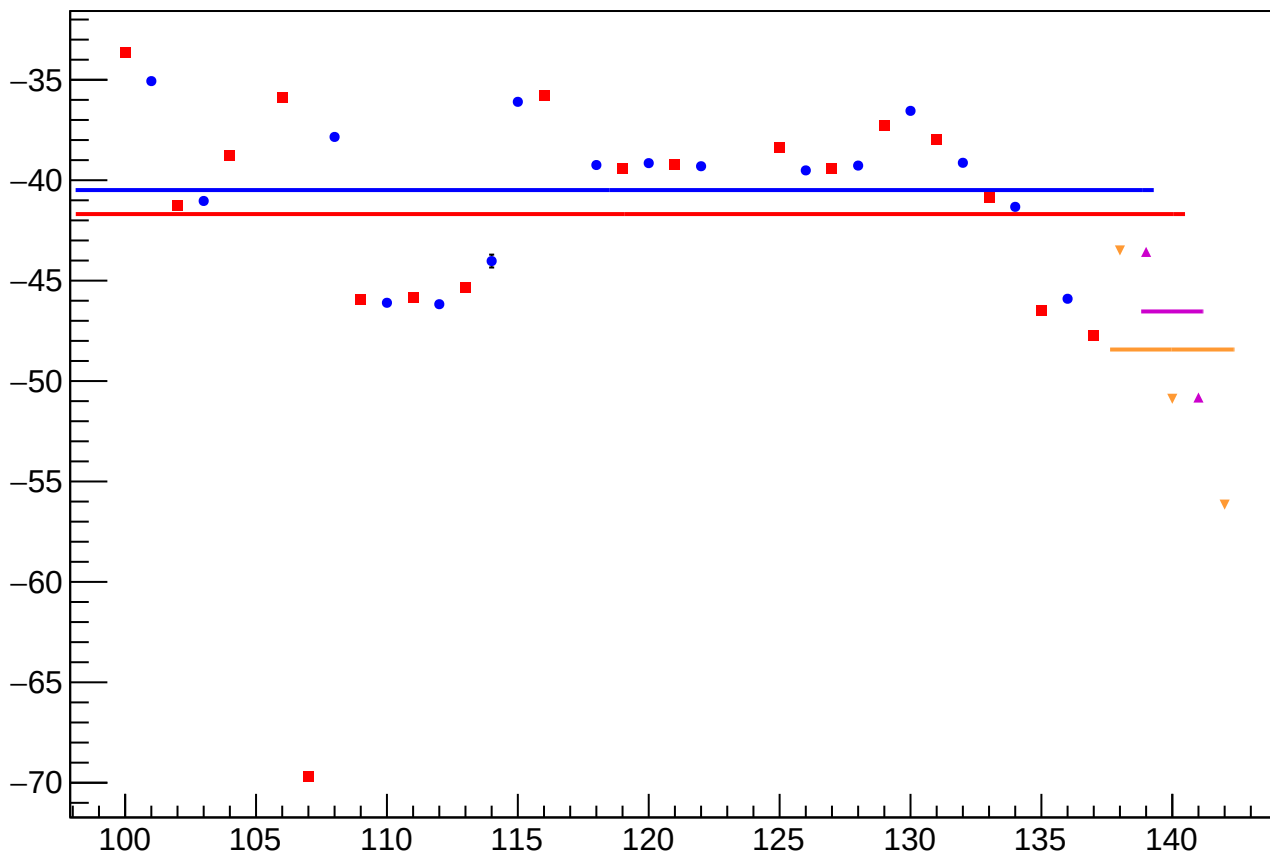
Right: 5.016 ± 0.355 $\chi^2/\text{NDF}: 851.9/33$

In: 7.948 ± 0.463 $\chi^2/\text{NDF}: 586.1/17$

Out: 7.725 ± 0.455 $\chi^2/\text{NDF}: 695.2/20$

All: 7.835 ± 0.324 $\chi^2/\text{NDF}: 1281.4/38$

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.491 ± 0.028 $\chi^2/\text{NDF}: 18125.4/15$

Left Out: -48.430 ± 0.044 $\chi^2/\text{NDF}: 11902.2/2$

Right Out: -41.686 ± 0.029 $\chi^2/\text{NDF}: 36838.6/17$

Left In: -46.535 ± 0.046 $\chi^2/\text{NDF}: 5991.1/1$

Left: -47.531 ± 0.032 $\chi^2/\text{NDF}: 18783.3/4$

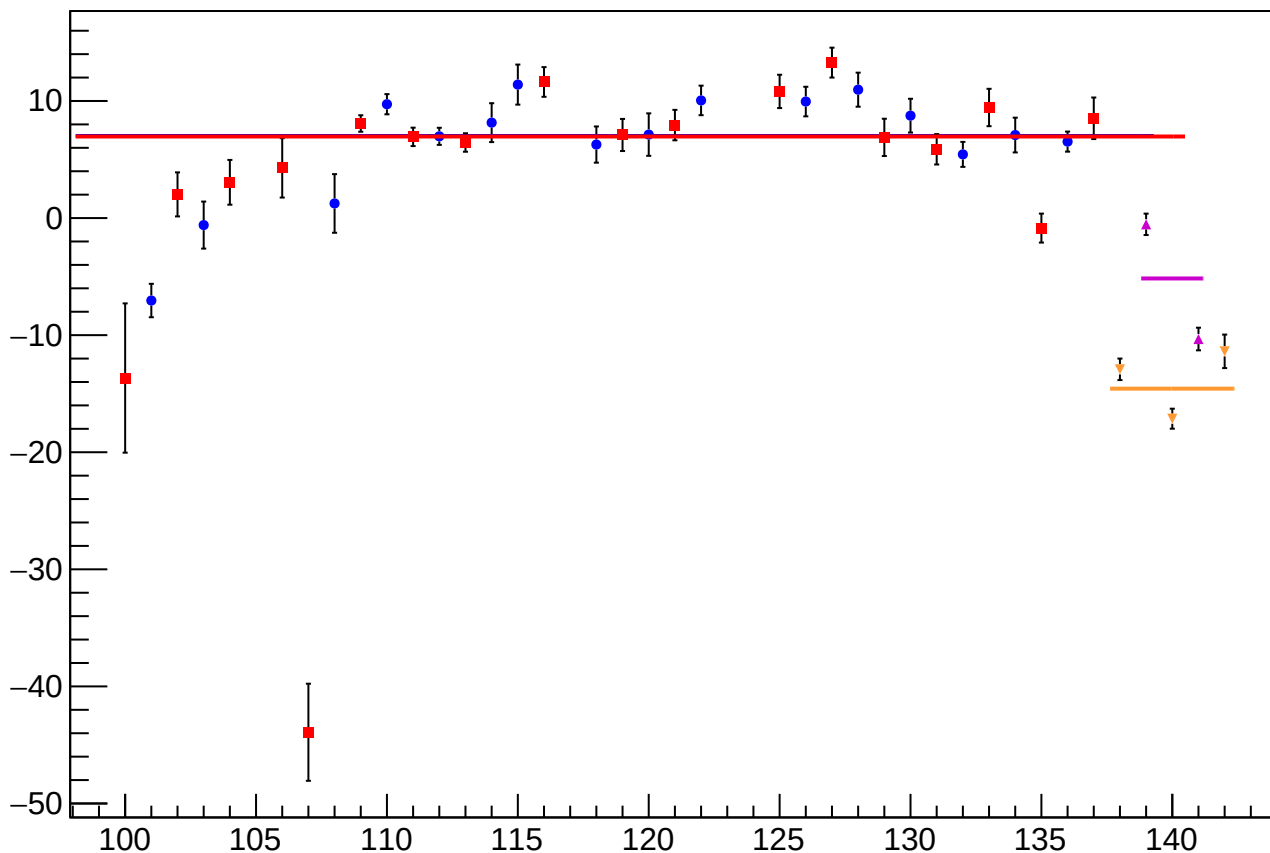
Right: -41.069 ± 0.020 $\chi^2/\text{NDF}: 55825.2/33$

In: -42.148 ± 0.024 $\chi^2/\text{NDF}: 36612.5/17$

Out: -43.770 ± 0.024 $\chi^2/\text{NDF}: 65164.1/20$

All: -42.952 ± 0.017 $\chi^2/\text{NDF}: 104017.1/38$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.011 ± 0.309 χ^2/NDF : 156.3/15

Left Out: -14.569 ± 0.573 χ^2/NDF : 17.2/2

Right Out: 6.967 ± 0.298 χ^2/NDF : 266.0/17

Left In: -5.159 ± 0.664 χ^2/NDF : 54.3/1

Left: -10.550 ± 0.434 χ^2/NDF : 186.6/4

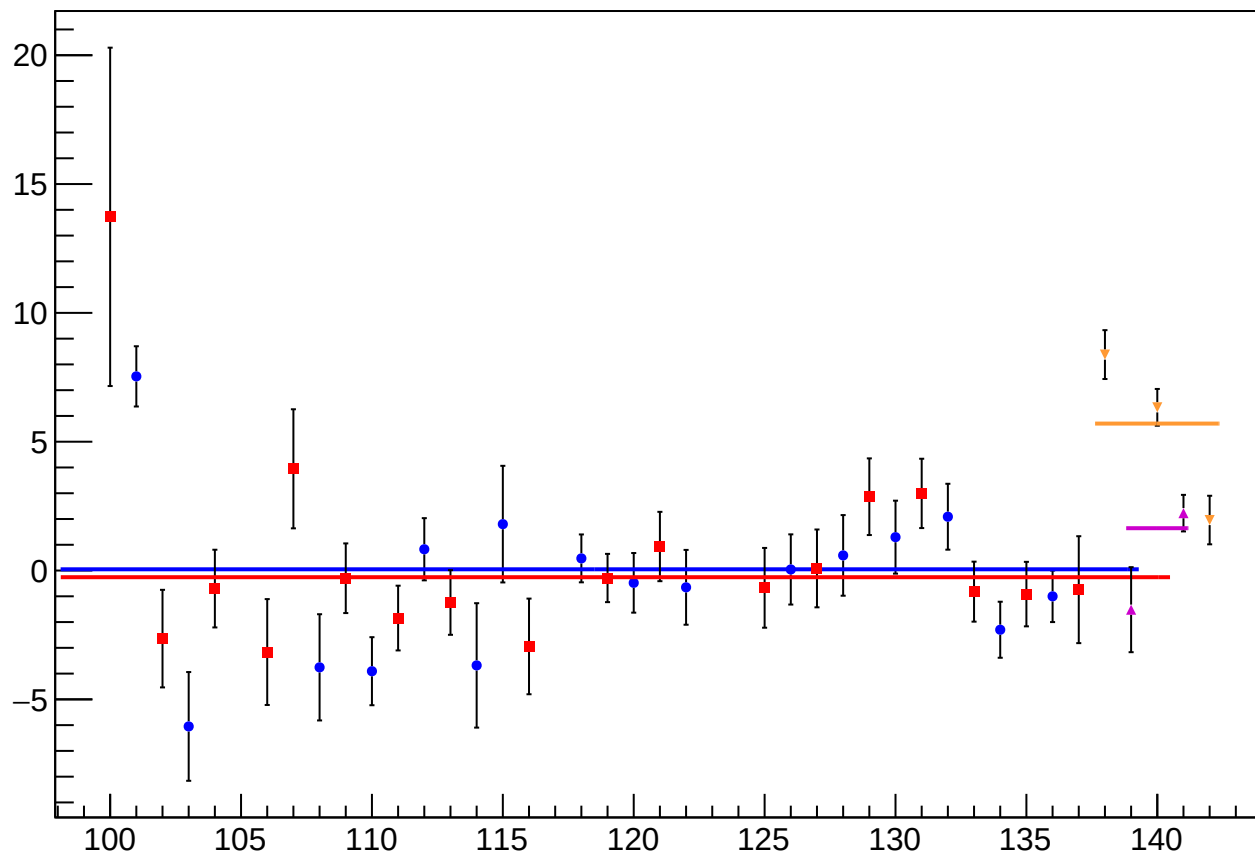
Right: 6.988 ± 0.215 χ^2/NDF : 422.3/33

In: 4.841 ± 0.280 χ^2/NDF : 486.7/17

Out: 2.381 ± 0.265 χ^2/NDF : 1394.1/20

All: 3.540 ± 0.192 χ^2/NDF : 1921.5/38

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.048 ± 0.331 $\chi^2/\text{NDF}: 75.0/15$

Left Out: 5.704 ± 0.488 $\chi^2/\text{NDF}: 24.5/2$

Right Out: -0.259 ± 0.344 $\chi^2/\text{NDF}: 27.5/17$

Left In: 1.643 ± 0.652 $\chi^2/\text{NDF}: 4.4/1$

Left: 4.245 ± 0.390 $\chi^2/\text{NDF}: 53.8/4$

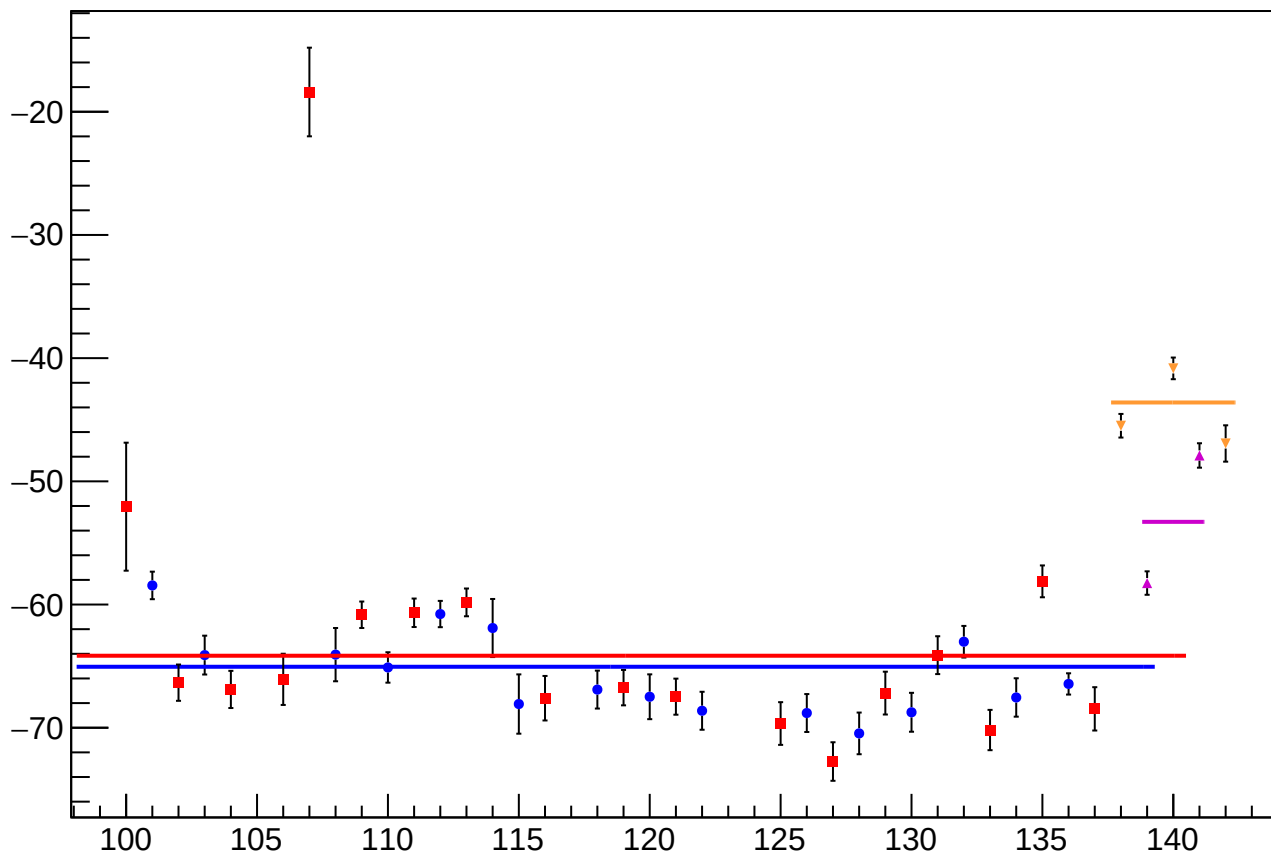
Right: -0.099 ± 0.239 $\chi^2/\text{NDF}: 102.9/33$

In: 0.376 ± 0.295 $\chi^2/\text{NDF}: 84.1/17$

Out: 1.725 ± 0.281 $\chi^2/\text{NDF}: 151.8/20$

All: 1.083 ± 0.204 $\chi^2/\text{NDF}: 246.8/38$

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.051 ± 0.354 χ^2/NDF : 92.8/15

Left Out: -43.598 ± 0.593 χ^2/NDF : 18.9/2

Right Out: -64.156 ± 0.360 χ^2/NDF : 303.7/17

Left In: -53.288 ± 0.687 χ^2/NDF : 56.8/1

Left: -47.739 ± 0.449 χ^2/NDF : 189.7/4

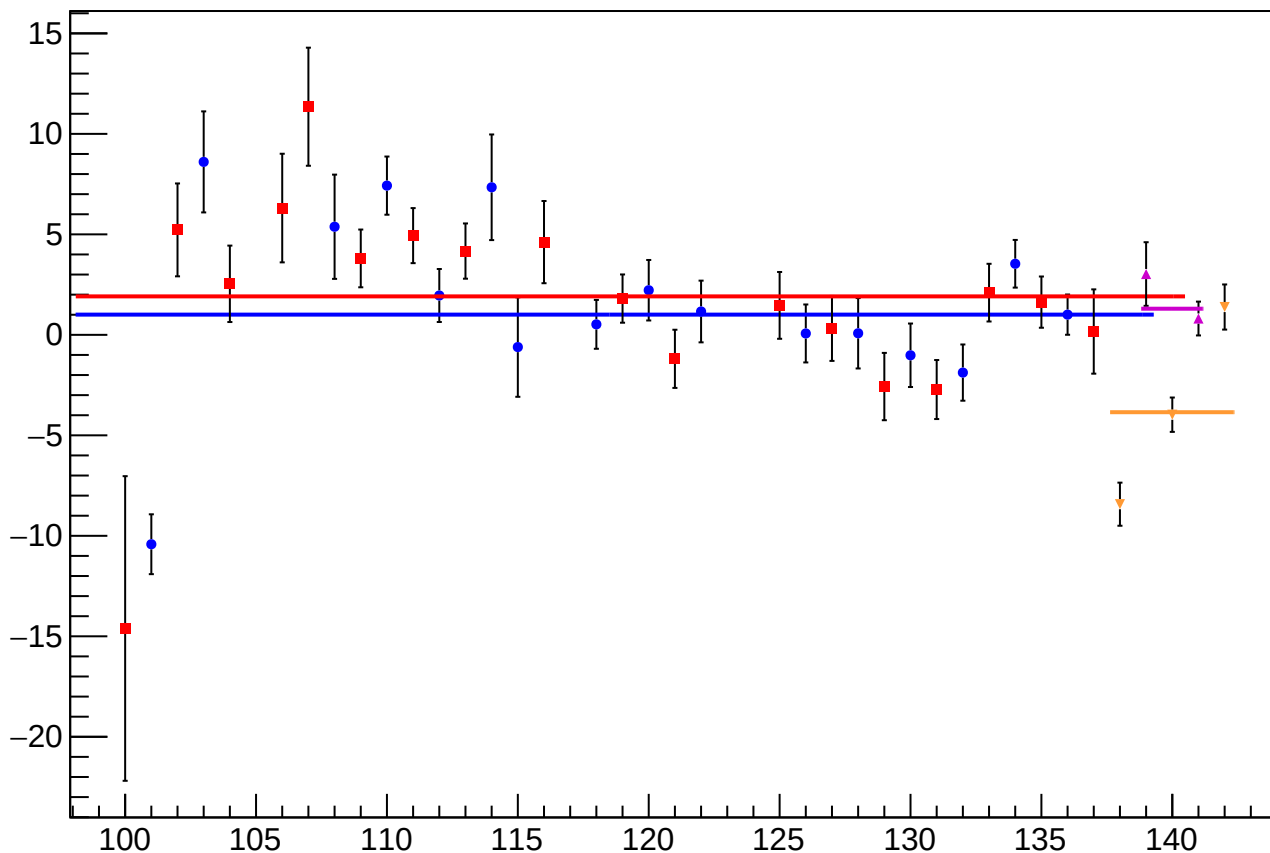
Right: -64.611 ± 0.253 χ^2/NDF : 399.6/33

In: -62.581 ± 0.315 χ^2/NDF : 381.4/17

Out: -58.612 ± 0.308 χ^2/NDF : 1199.7/20

All: -60.555 ± 0.220 χ^2/NDF : 1662.3/38

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.006 ± 0.376 χ^2/NDF : 109.2/15

Left Out: -3.849 ± 0.574 χ^2/NDF : 40.0/2

Right Out: 1.914 ± 0.390 χ^2/NDF : 54.5/17

Left In: 1.300 ± 0.743 χ^2/NDF : 1.5/1

Left: -1.923 ± 0.454 χ^2/NDF : 71.5/4

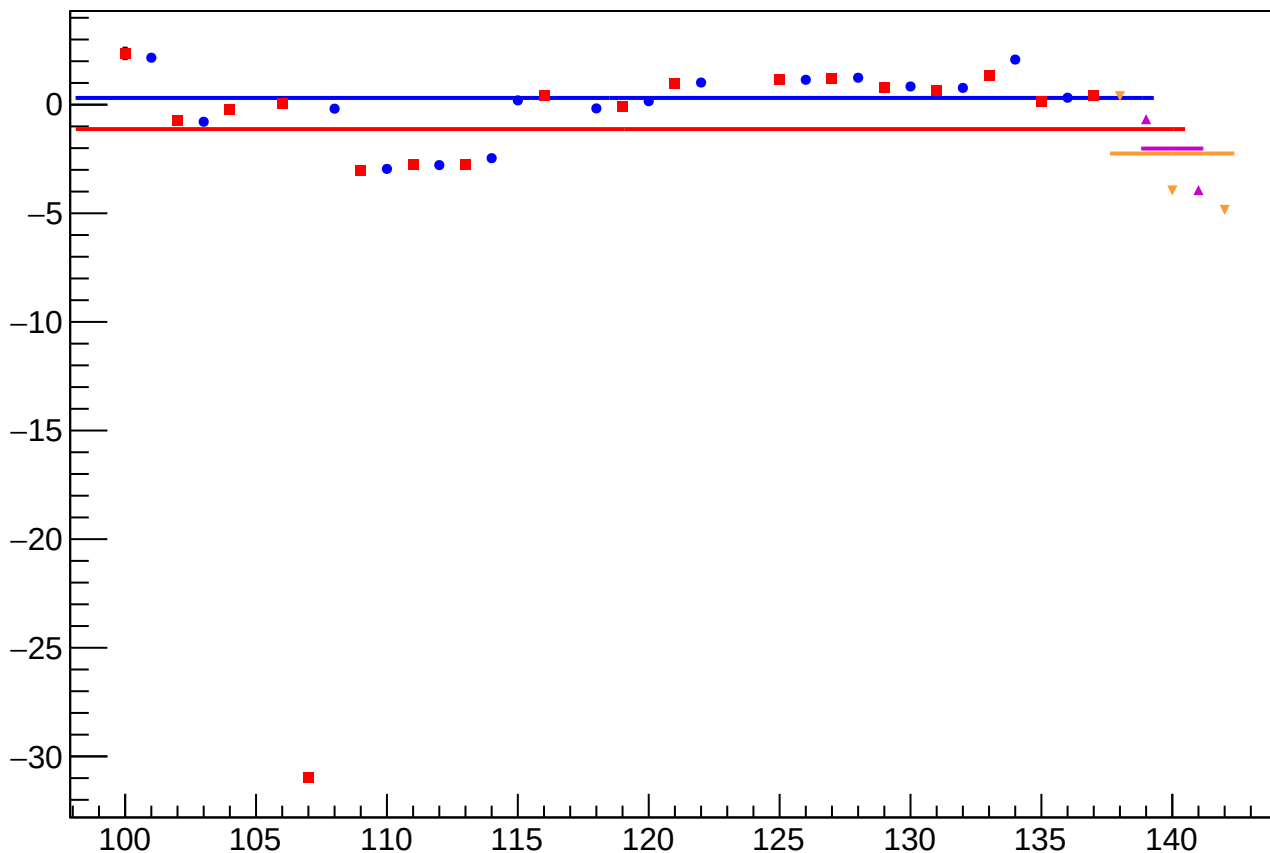
Right: 1.443 ± 0.270 χ^2/NDF : 166.5/33

In: 1.066 ± 0.335 χ^2/NDF : 110.9/17

Out: 0.097 ± 0.322 χ^2/NDF : 163.4/20

All: 0.563 ± 0.232 χ^2/NDF : 278.6/38

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.310 ± 0.021 $\chi^2/\text{NDF}: 4848.4/15$

Left Out: -2.248 ± 0.025 $\chi^2/\text{NDF}: 8611.1/2$

Right Out: -1.124 ± 0.022 $\chi^2/\text{NDF}: 46347.9/17$

Left In: -2.020 ± 0.026 $\chi^2/\text{NDF}: 3820.2/1$

Left: -2.140 ± 0.018 $\chi^2/\text{NDF}: 12471.6/4$

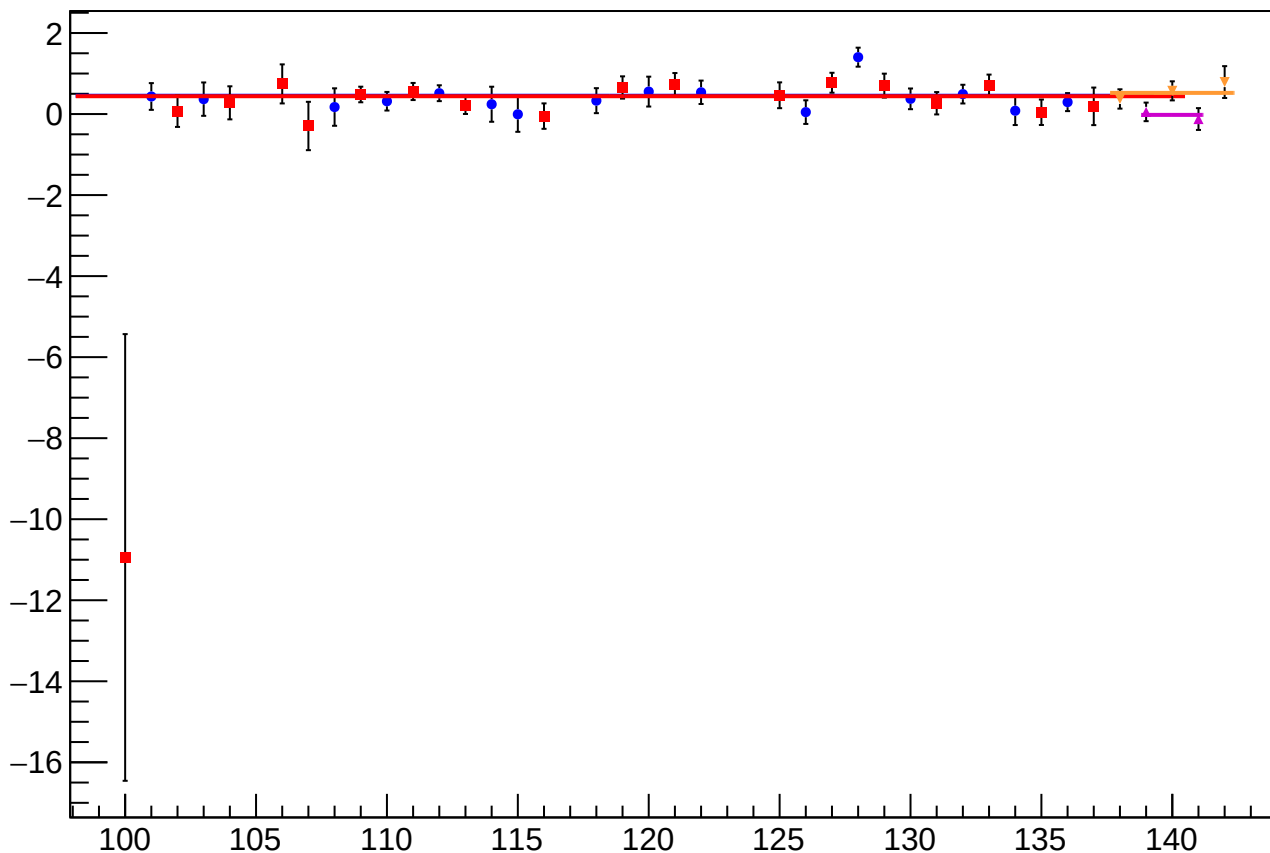
Right: -0.369 ± 0.015 $\chi^2/\text{NDF}: 53391.3/33$

In: -0.612 ± 0.016 $\chi^2/\text{NDF}: 13513.1/17$

Out: -1.625 ± 0.017 $\chi^2/\text{NDF}: 56100.9/20$

All: -1.113 ± 0.012 $\chi^2/\text{NDF}: 71508.5/38$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.452 $\pm$ 0.071 χ^2 /NDF: 22.6/15

Left Out: 0.522 $\pm$ 0.154 χ^2 /NDF: 0.9/2

Right Out: 0.440 $\pm$ 0.070 χ^2 /NDF: 18.5/17

Left In: -0.021 $\pm$ 0.174 χ^2 /NDF: 0.2/1

Left: 0.284 $\pm$ 0.116 χ^2 /NDF: 6.6/4

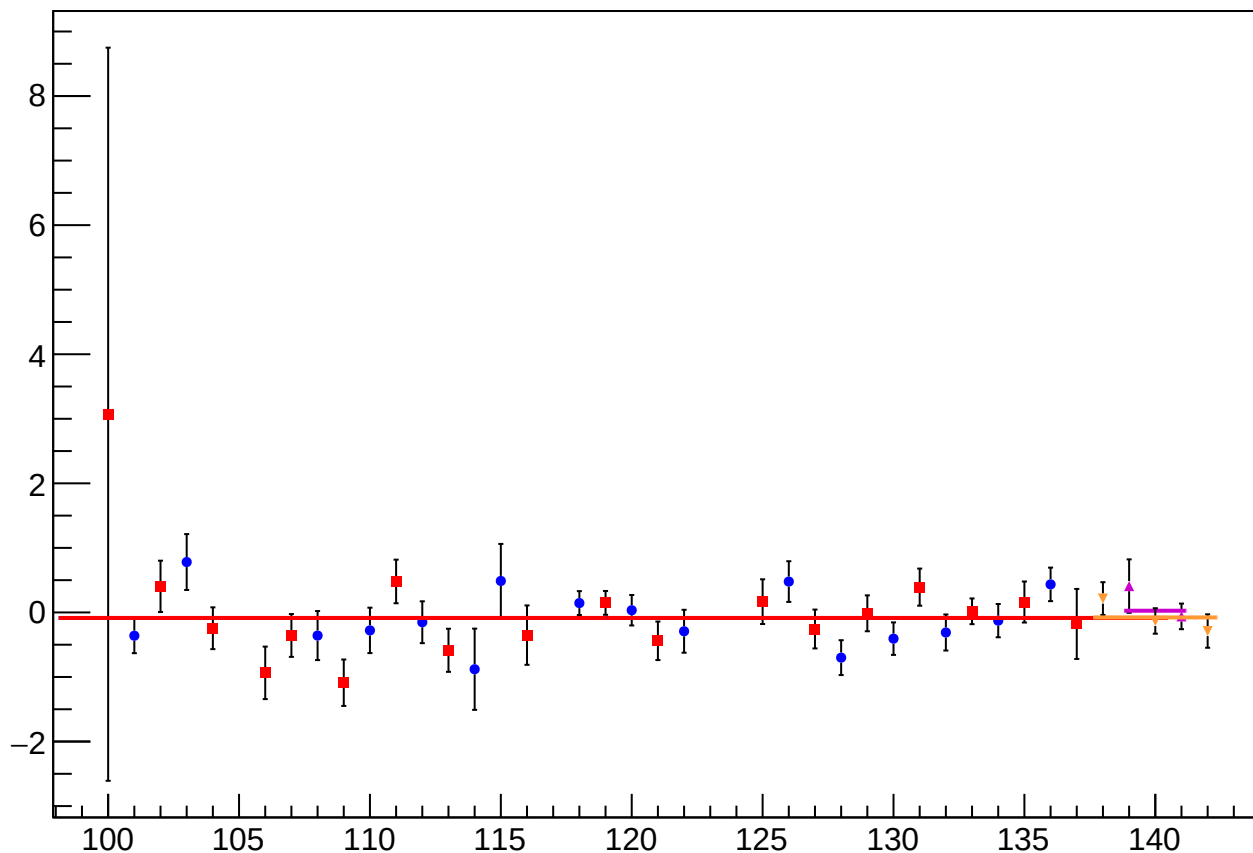
Right: 0.446 $\pm$ 0.050 χ^2 /NDF: 41.2/33

In: 0.384 $\pm$ 0.066 χ^2 /NDF: 29.2/17

Out: 0.454 $\pm$ 0.063 χ^2 /NDF: 19.7/20

All: 0.420 $\pm$ 0.046 χ^2 /NDF: 49.5/38

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.086 ± 0.073 χ^2/NDF : 25.4/15

Left Out: -0.078 ± 0.133 χ^2/NDF : 2.1/2

Right Out: -0.085 ± 0.074 χ^2/NDF : 27.9/17

Left In: 0.026 ± 0.179 χ^2/NDF : 1.0/1

Left: -0.040 ± 0.107 χ^2/NDF : 3.3/4

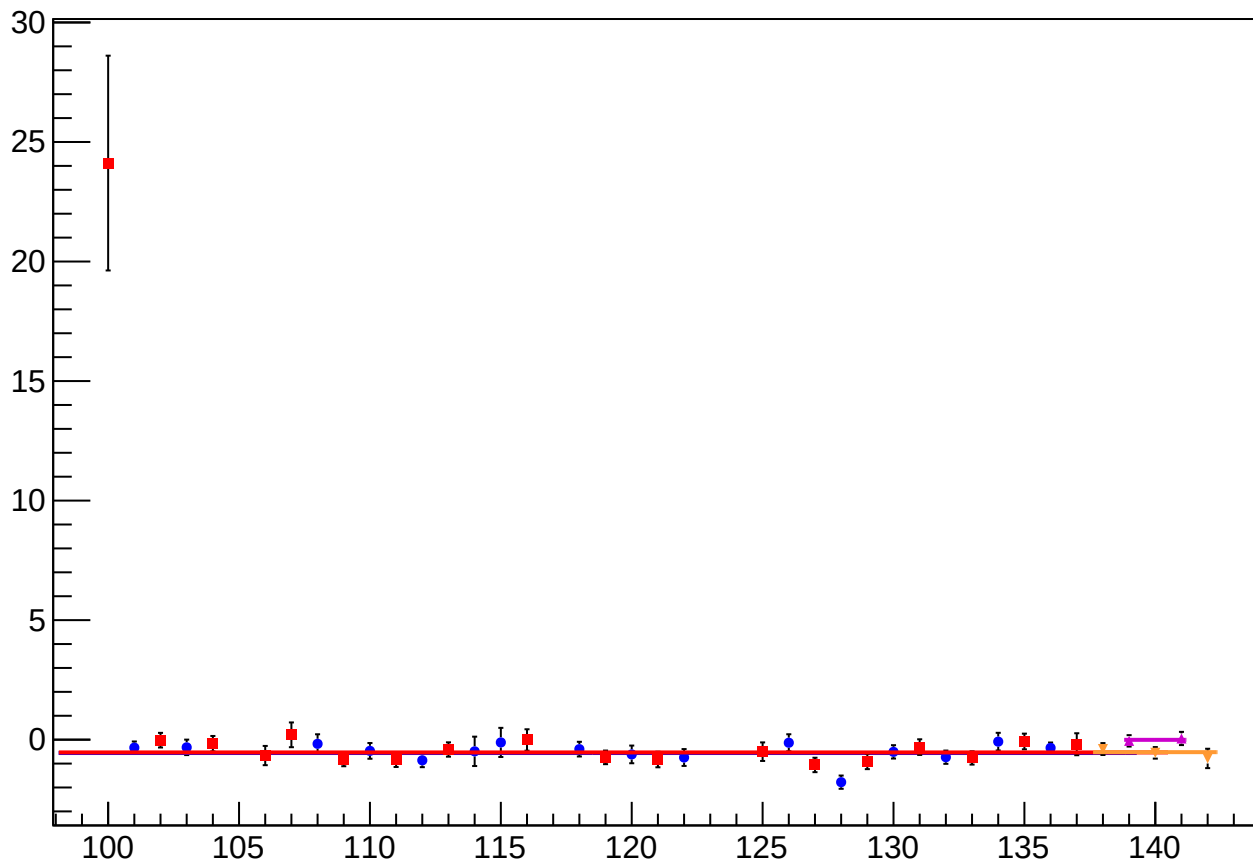
Right: -0.086 ± 0.052 χ^2/NDF : 53.3/33

In: -0.070 ± 0.068 χ^2/NDF : 26.8/17

Out: -0.084 ± 0.064 χ^2/NDF : 29.9/20

All: -0.077 ± 0.047 χ^2/NDF : 56.7/38

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.558 ± 0.080 χ^2/NDF : 28.3/15

Left Out: -0.522 ± 0.160 χ^2/NDF : 0.7/2

Right Out: -0.534 ± 0.081 χ^2/NDF : 49.2/17

Left In: -0.007 ± 0.181 χ^2/NDF : 0.1/1

Left: -0.296 ± 0.120 χ^2/NDF : 5.3/4

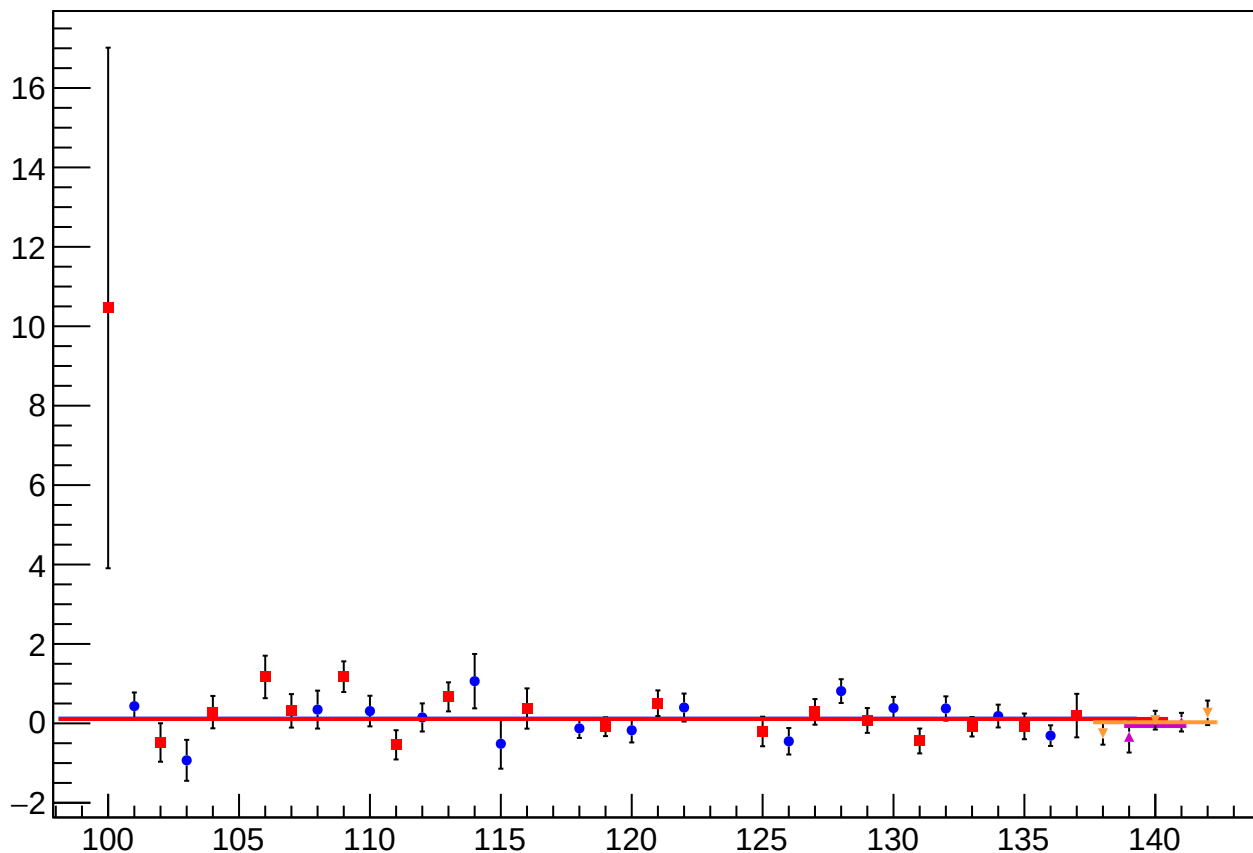
Right: -0.546 ± 0.057 χ^2/NDF : 77.6/33

In: -0.468 ± 0.073 χ^2/NDF : 36.2/17

Out: -0.531 ± 0.072 χ^2/NDF : 49.9/20

All: -0.500 ± 0.051 χ^2/NDF : 86.5/38

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.118+/-0.084 χ^2/NDF : 23.6/15

Left Out: 0.028+/-0.157 χ^2/NDF : 1.6/2

Right Out: 0.111+/-0.085 χ^2/NDF : 29.0/17

Left In: -0.065+/-0.202 χ^2/NDF : 0.6/1

Left: -0.007+/-0.124 χ^2/NDF : 2.4/4

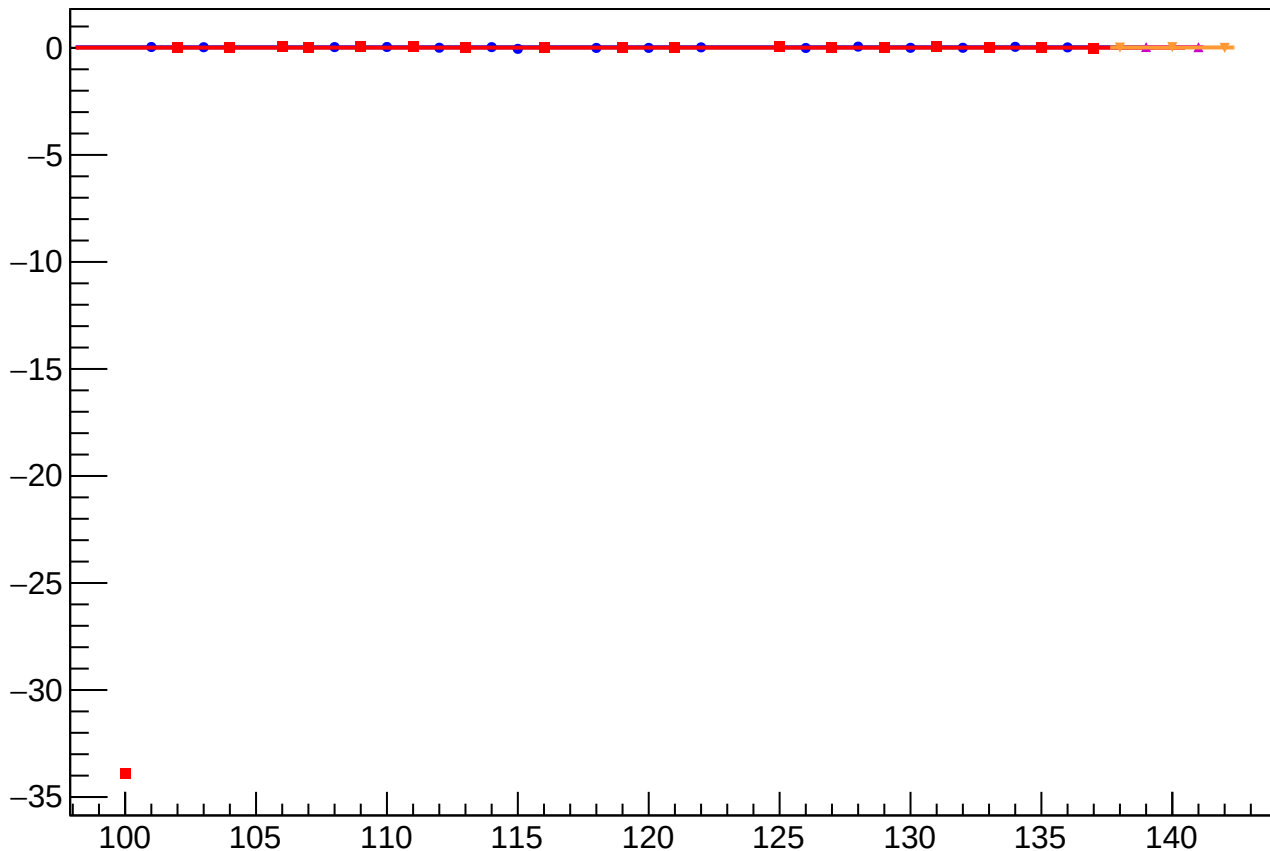
Right: 0.115+/-0.060 χ^2/NDF : 52.6/33

In: 0.091+/-0.077 χ^2/NDF : 25.0/17

Out: 0.092+/-0.075 χ^2/NDF : 30.8/20

All: 0.092+/-0.054 χ^2/NDF : 55.8/38

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.005 χ^2 /NDF: 14.7/15

Left Out: 0.021 $\pm$ 0.007 χ^2 /NDF:3.7/2

Right Out: 0.012 $\pm$ 0.005 χ^2 /NDF: 22262.0/17

Left In: 0.040 $\pm$ 0.007 χ^2 /NDF:0.2/1

Left: 0.030 $\pm$ 0.005 χ^2 /NDF: 8.3/4

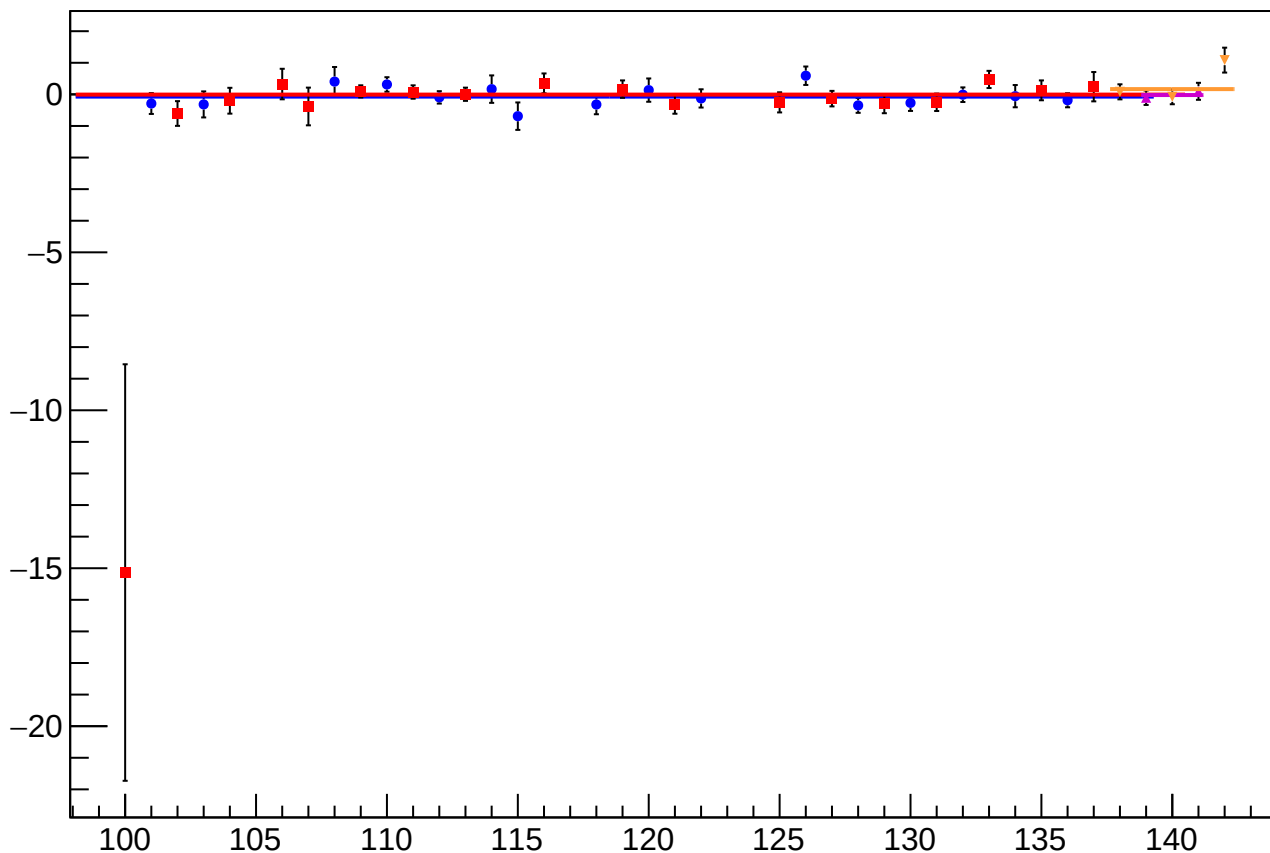
Right: 0.020 $\pm$ 0.003 χ^2 /NDF: 22281.9/33

In: 0.032 $\pm$ 0.004 χ^2 /NDF:17.2/17

Out: 0.015 $\pm$ 0.004 χ^2 /NDF:22266.9/20

All: 0.023 $\pm$ 0.003 χ^2 /NDF: 22293.3/38

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.070 ± 0.071 χ^2/NDF : 15.5/15

Left Out: 0.167 ± 0.154 χ^2/NDF : 6.6/2

Right Out: -0.007 ± 0.070 χ^2/NDF : 18.1/17

Left In: -0.021 ± 0.174 χ^2/NDF : 0.3/1

Left: 0.084 ± 0.115 χ^2/NDF : 7.6/4

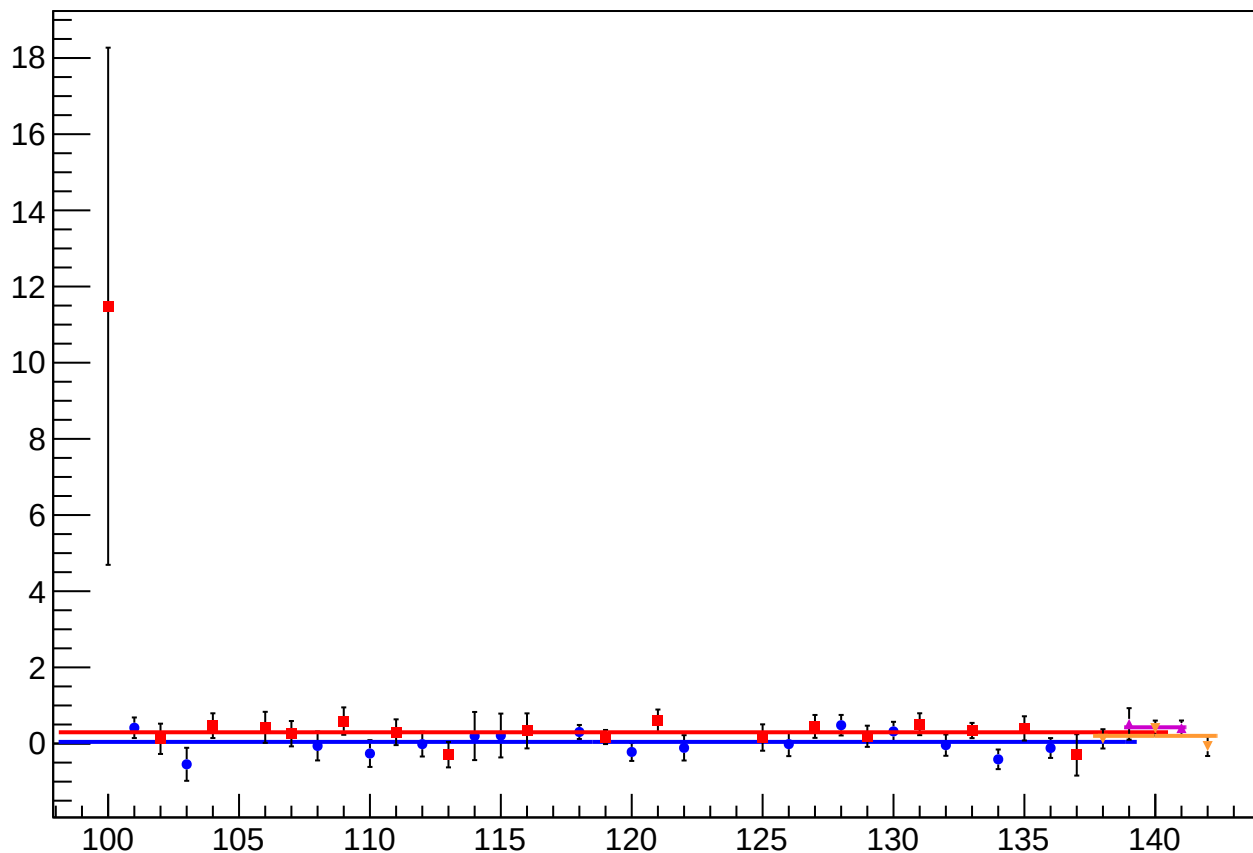
Right: -0.038 ± 0.050 χ^2/NDF : 34.1/33

In: -0.063 ± 0.066 χ^2/NDF : 15.9/17

Out: 0.022 ± 0.063 χ^2/NDF : 25.8/20

All: -0.019 ± 0.046 χ^2/NDF : 42.6/38

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.044+/-0.073 χ^2/NDF : 15.7/15

Left Out: 0.202+/-0.134 χ^2/NDF : 2.2/2

Right Out: 0.296+/-0.074 χ^2/NDF : 11.0/17

Left In: 0.427+/-0.179 χ^2/NDF : 0.1/1

Left: 0.283+/-0.107 χ^2/NDF : 3.3/4

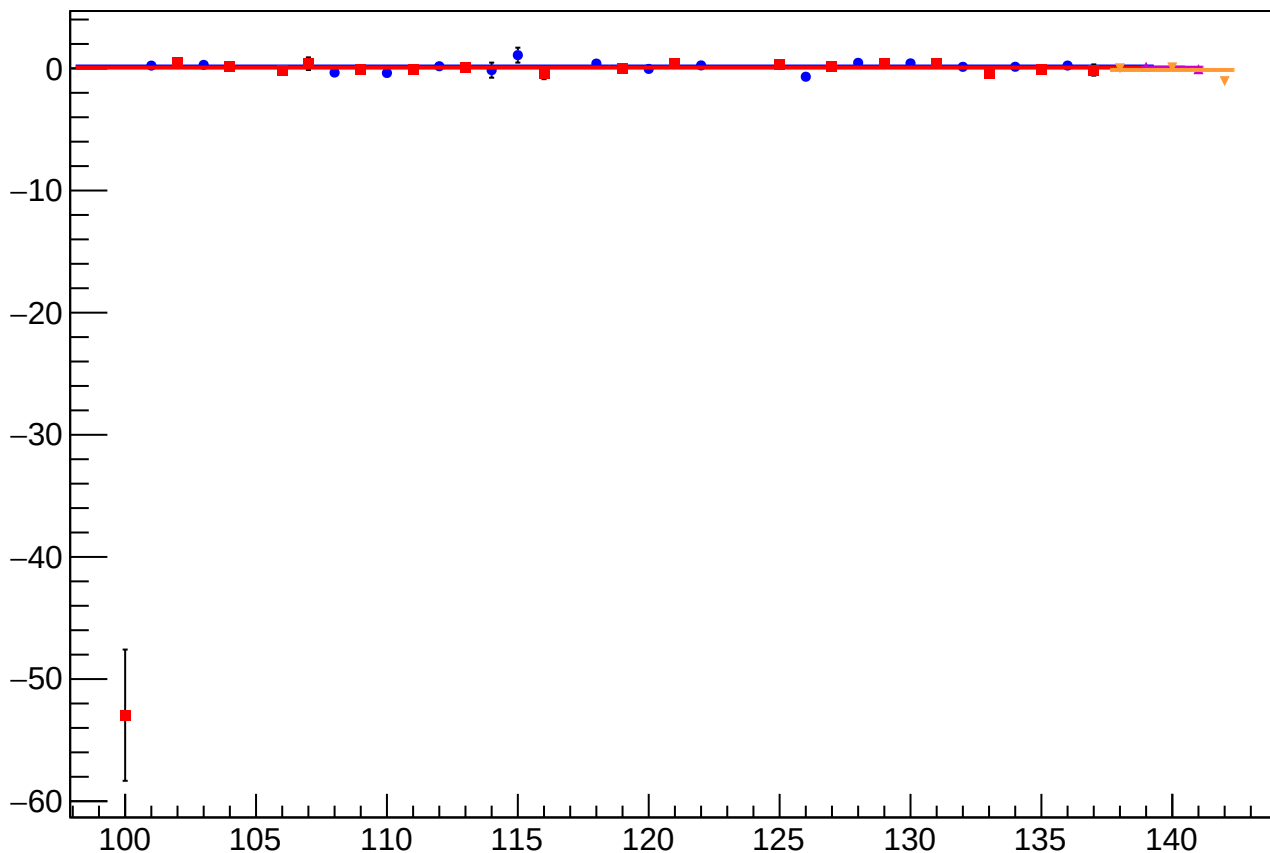
Right: 0.169+/-0.052 χ^2/NDF : 32.6/33

In: 0.099+/-0.068 χ^2/NDF : 19.7/17

Out: 0.274+/-0.065 χ^2/NDF : 13.6/20

All: 0.191+/-0.047 χ^2/NDF : 36.9/38

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.154+/-0.080 χ^2/NDF : 15.6/15

Left Out: -0.127+/-0.160 χ^2/NDF : 6.1/2

Right Out: 0.065+/-0.081 χ^2/NDF : 109.3/17

Left In: 0.055+/-0.180 χ^2/NDF : 0.3/1

Left: -0.047+/-0.120 χ^2/NDF : 7.0/4

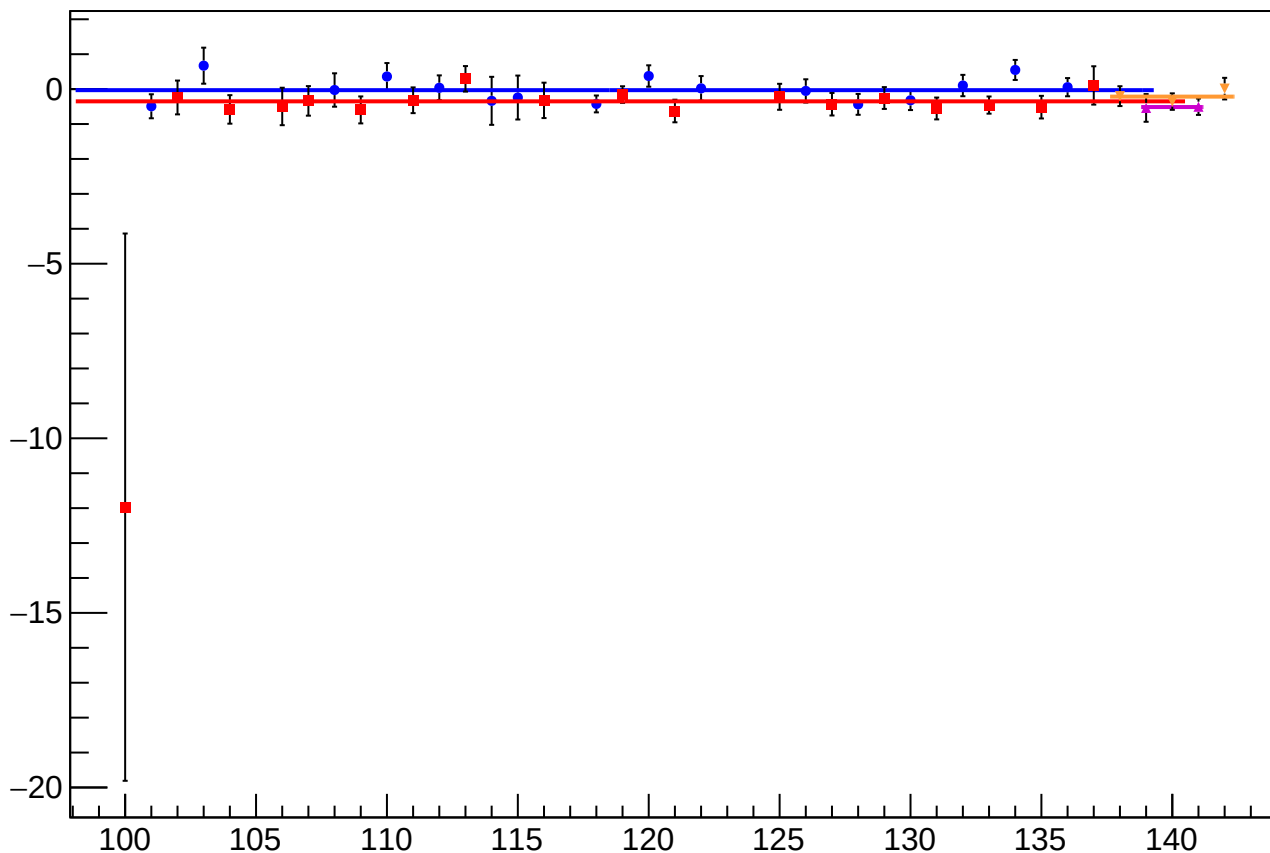
Right: 0.110+/-0.057 χ^2/NDF : 125.5/33

In: 0.137+/-0.073 χ^2/NDF : 16.2/17

Out: 0.026+/-0.072 χ^2/NDF : 116.6/20

All: 0.081+/-0.051 χ^2/NDF : 133.9/38

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.030 ± 0.084 χ^2/NDF : 16.8/15

Left Out: -0.215 ± 0.157 χ^2/NDF : 0.9/2

Right Out: -0.350 ± 0.085 χ^2/NDF : 9.4/17

Left In: -0.513 ± 0.202 χ^2/NDF : 0.0/1

Left: -0.327 ± 0.124 χ^2/NDF : 2.3/4

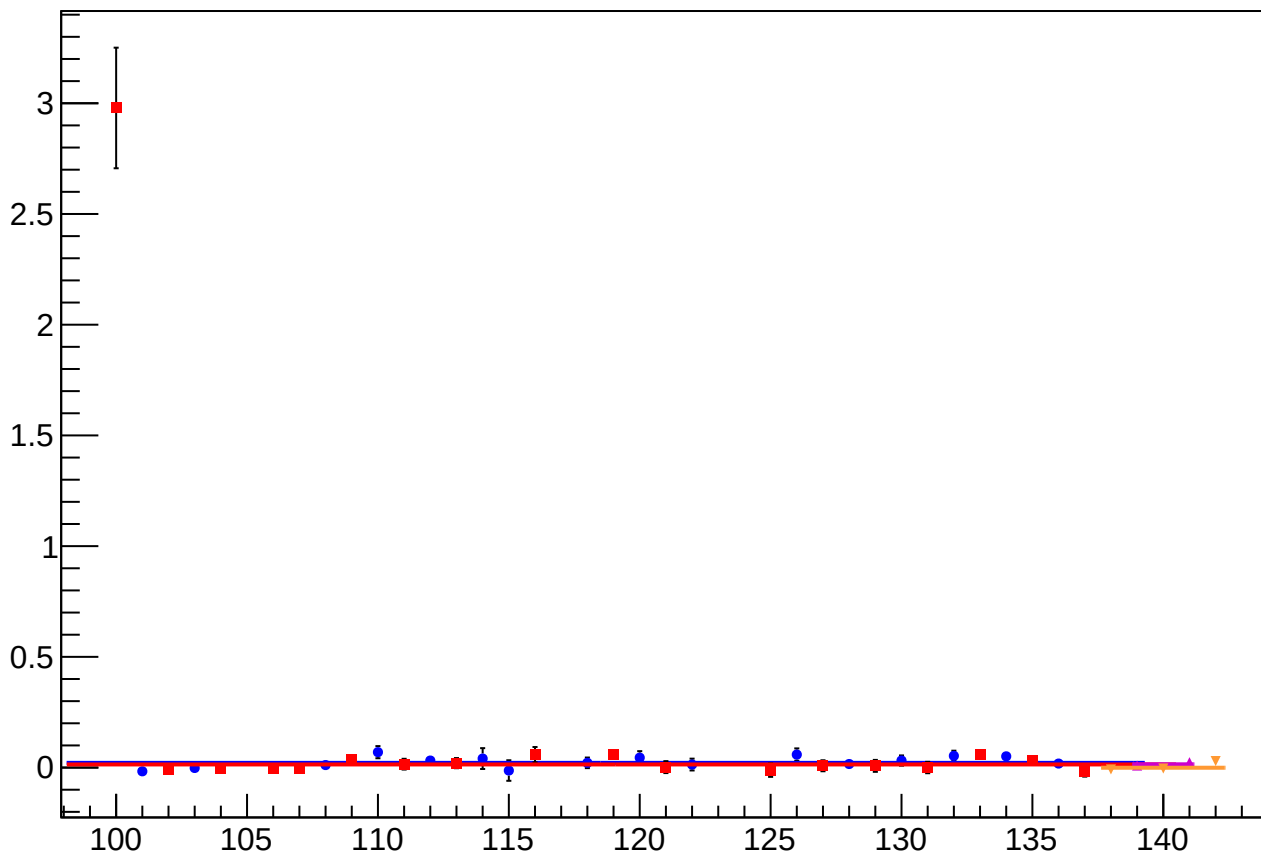
Right: -0.188 ± 0.060 χ^2/NDF : 33.4/33

In: -0.101 ± 0.077 χ^2/NDF : 21.7/17

Out: -0.320 ± 0.075 χ^2/NDF : 10.9/20

All: -0.214 ± 0.054 χ^2/NDF : 36.7/38

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.021+/-0.005 χ^2/NDF : 22.5/15

Left Out: -0.001+/-0.007 χ^2/NDF : 4.0/2

Right Out: 0.014+/-0.005 χ^2/NDF : 140.9/17

Left In: 0.015+/-0.007 χ^2/NDF : 1.2/1

Left: 0.007+/-0.005 χ^2/NDF : 7.8/4

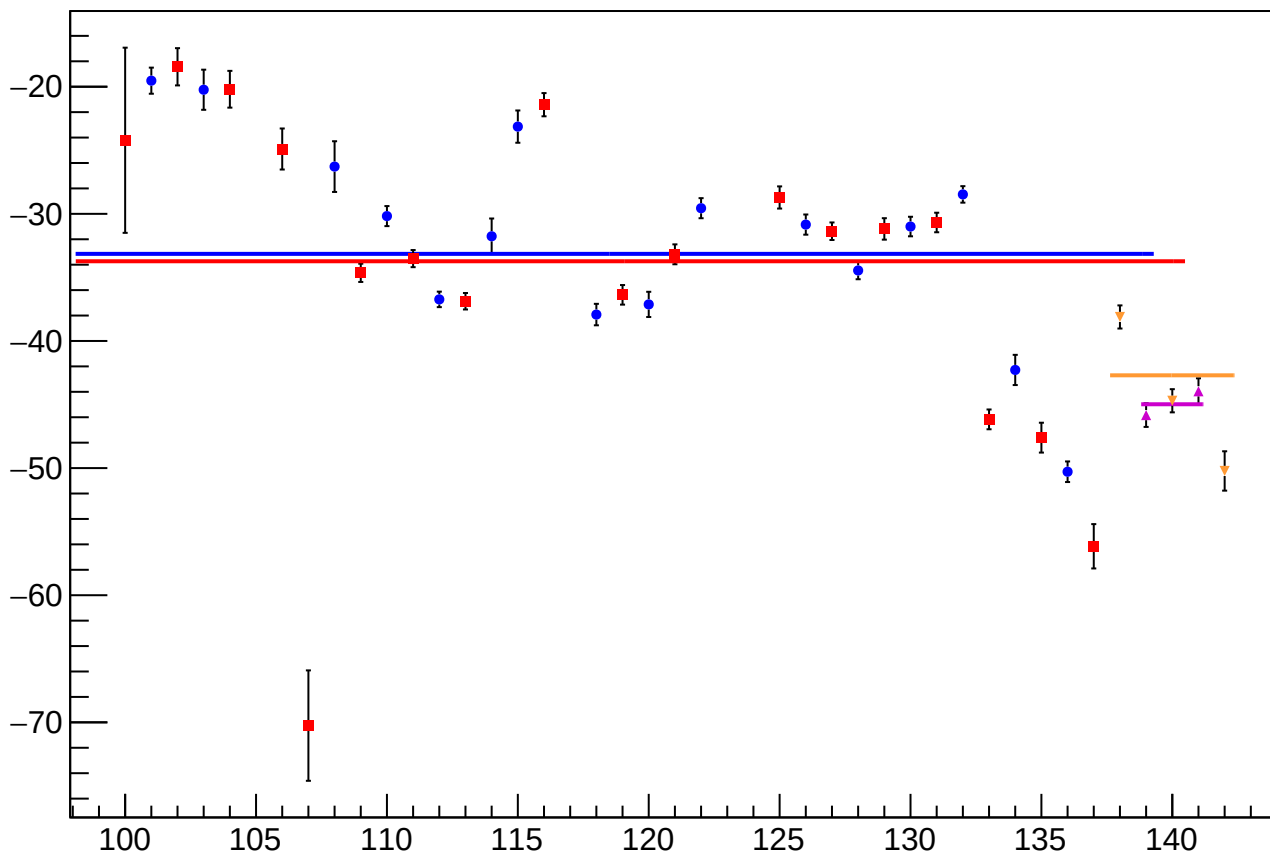
Right: 0.018+/-0.003 χ^2/NDF : 164.5/33

In: 0.019+/-0.004 χ^2/NDF : 24.3/17

Out: 0.009+/-0.004 χ^2/NDF : 148.2/20

All: 0.014+/-0.003 χ^2/NDF : 175.8/38

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.148 $\pm$ 0.218 χ^2 /NDF: 1013.9/15

Left Out: -42.702 $\pm$ 0.594 χ^2 /NDF:53.9/2

Right Out: -33.730 $\pm$ 0.215 χ^2 /NDF: 1148.4/17

Left In: -44.978 $\pm$ 0.688 χ^2 /NDF:1.8/1

Left: -43.675 $\pm$ 0.450 χ^2 /NDF: 62.0/4

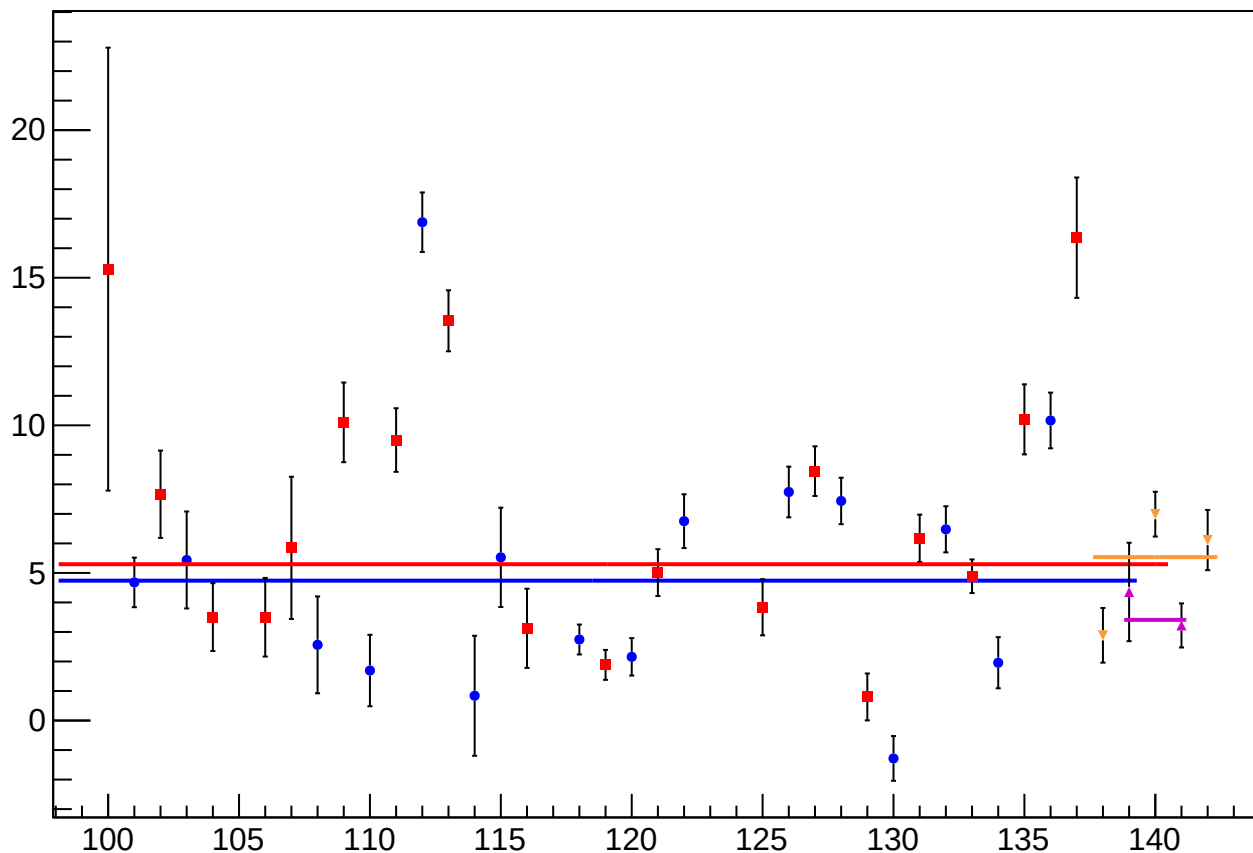
Right: -33.443 $\pm$ 0.153 χ^2 /NDF: 2166.0/33

In: -34.228 $\pm$ 0.208 χ^2 /NDF:1284.6/17

Out: -34.767 $\pm$ 0.202 χ^2 /NDF:1403.8/20

All: -34.505 $\pm$ 0.145 χ^2 /NDF: 2691.9/38

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.738 $\pm$ 0.219 χ^2 /NDF: 329.6/15

Left Out: 5.535 $\pm$ 0.508 χ^2 /NDF:12.2/2

Right Out: 5.295 $\pm$ 0.223 χ^2 /NDF: 245.0/17

Left In: 3.411 $\pm$ 0.681 χ^2 /NDF:0.4/1

Left: 4.775 $\pm$ 0.408 χ^2 /NDF: 18.8/4

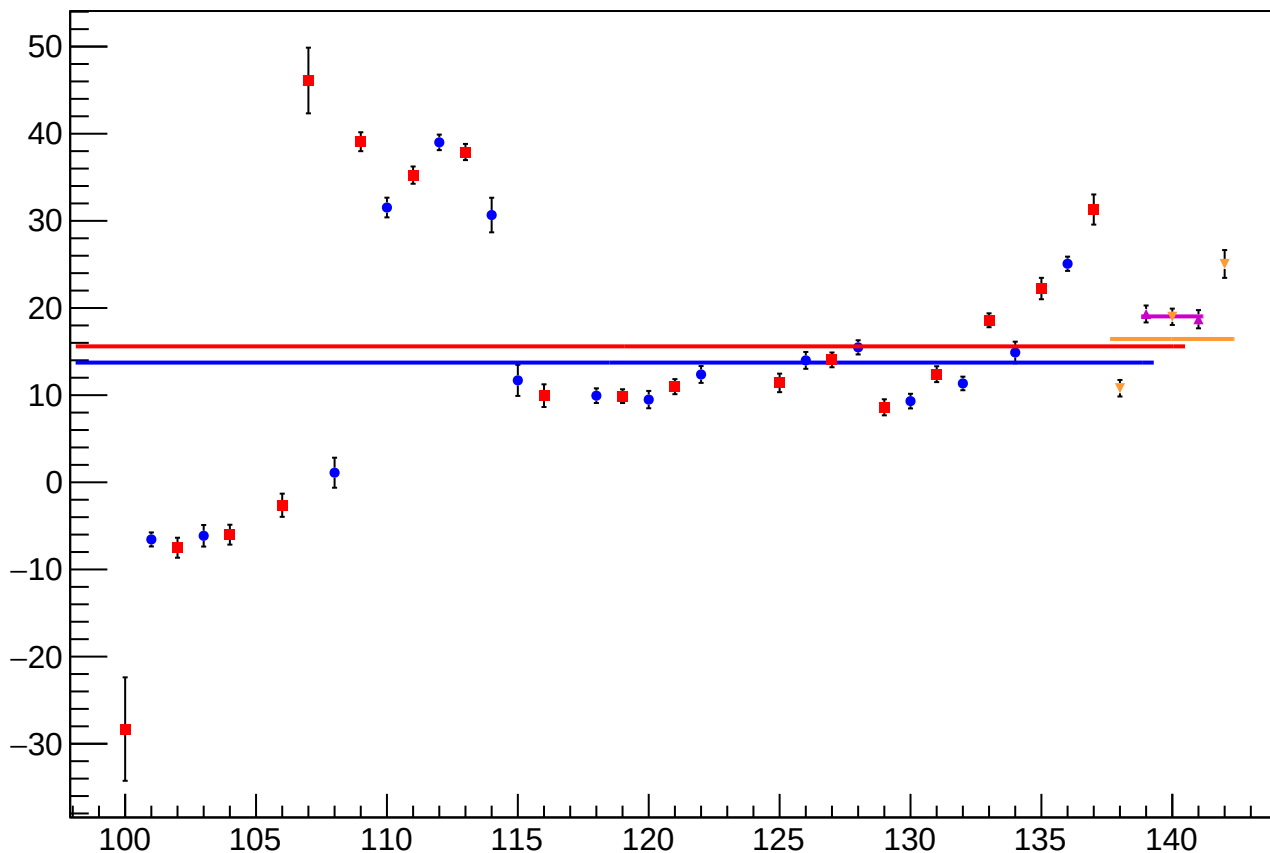
Right: 5.012 $\pm$ 0.156 χ^2 /NDF: 577.8/33

In: 4.614 $\pm$ 0.209 χ^2 /NDF:333.4/17

Out: 5.334 $\pm$ 0.204 χ^2 /NDF:257.4/20

All: 4.981 $\pm$ 0.146 χ^2 /NDF: 596.9/38

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.738 $\pm$ 0.247 χ^2 /NDF: 2349.9/15

Left Out: 16.449 $\pm$ 0.615 χ^2 /NDF:71.9/2

Right Out: 15.599 $\pm$ 0.250 χ^2 /NDF: 2826.3/17

Left In: 19.038 $\pm$ 0.712 χ^2 /NDF:0.2/1

Left: 17.556 $\pm$ 0.466 χ^2 /NDF: 79.6/4

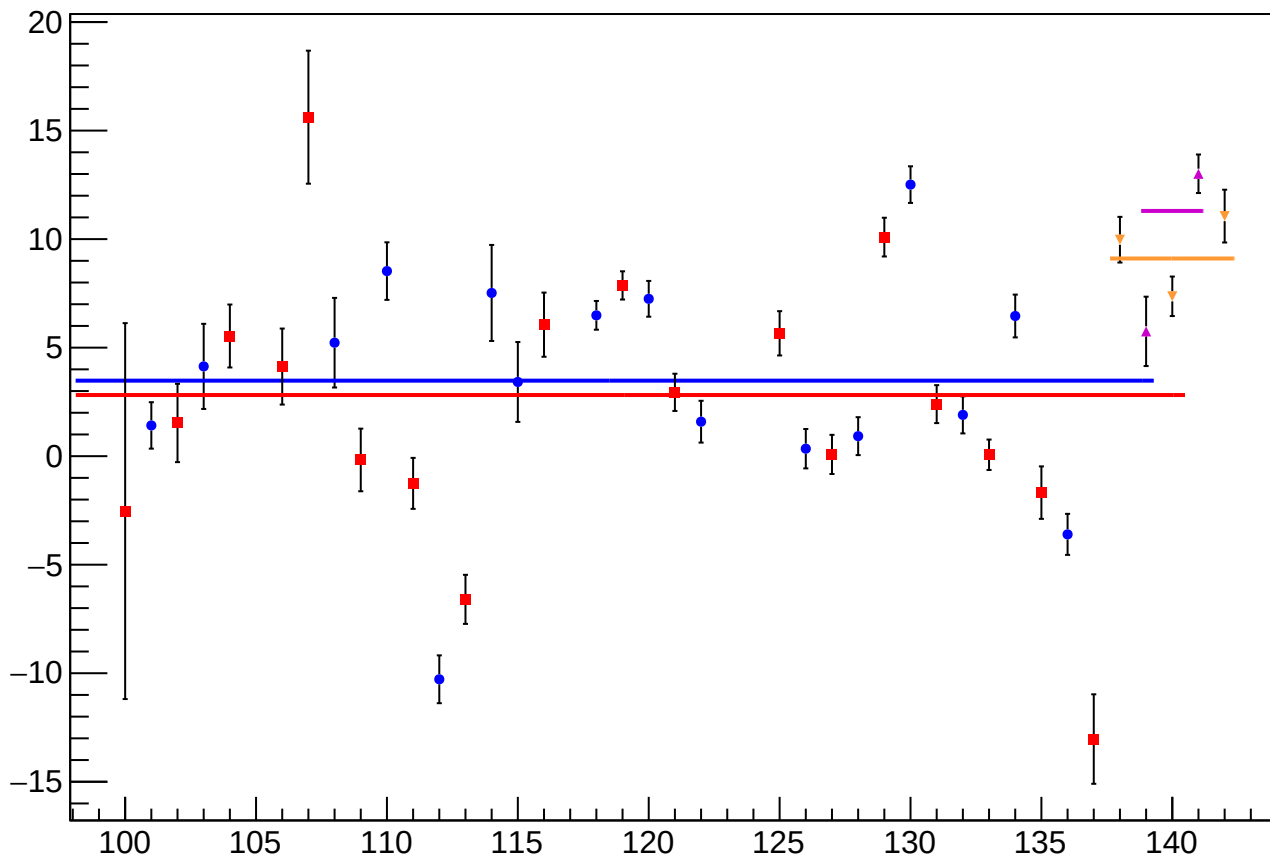
Right: 14.656 $\pm$ 0.176 χ^2 /NDF: 5204.2/33

In: 14.306 $\pm$ 0.233 χ^2 /NDF:2399.5/17

Out: 15.719 $\pm$ 0.232 χ^2 /NDF:2899.8/20

All: 15.017 $\pm$ 0.164 χ^2 /NDF: 5317.8/38

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Left: 9.926 ± 0.474 $\chi^2/\text{NDF}: 27.7/4$

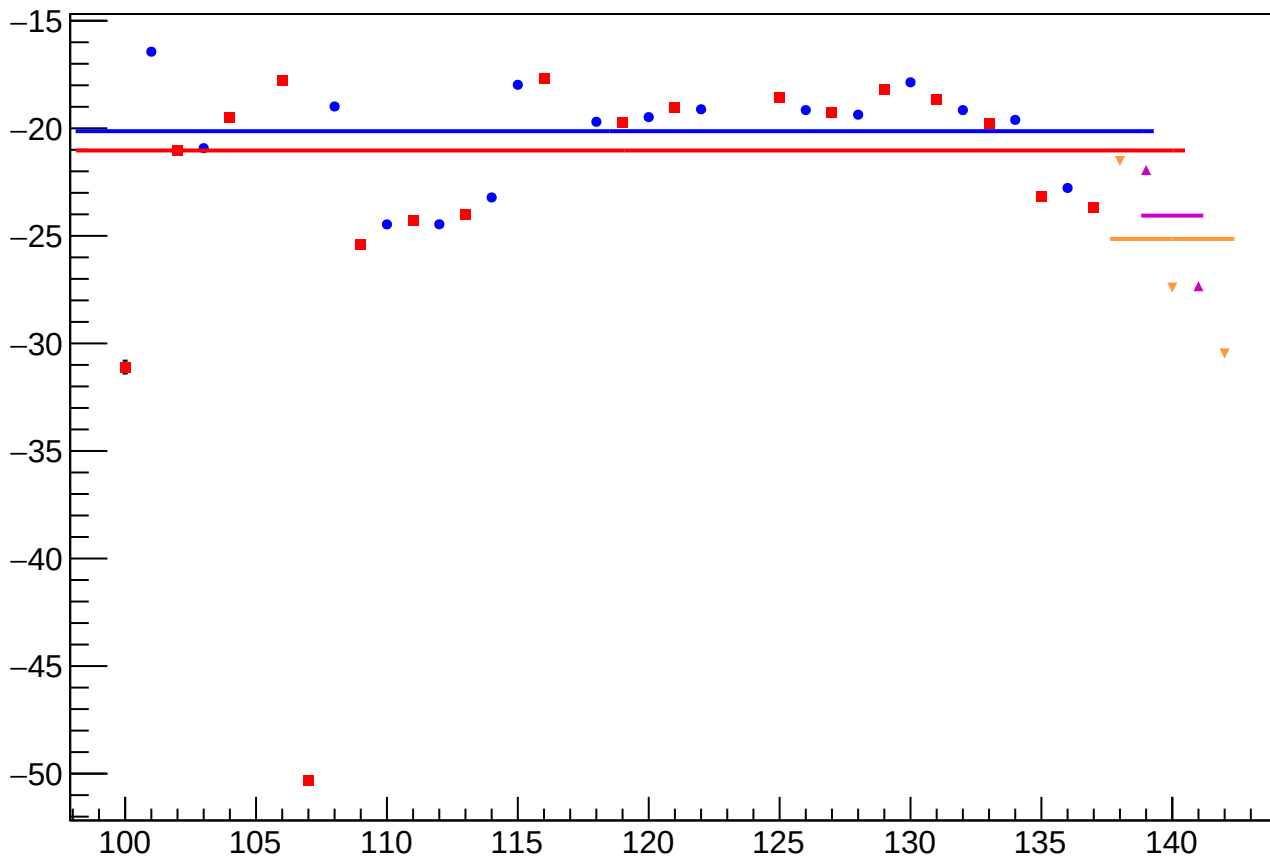
Right: 3.153 ± 0.181 $\chi^2/\text{NDF}: 776.3/33$

In: 4.234 ± 0.241 $\chi^2/\text{NDF}: 535.2/17$

Out: 3.796 ± 0.236 $\chi^2/\text{NDF}: 445.3/20$

All: 4.011 ± 0.169 $\chi^2/\text{NDF}: 982.1/38$

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.133+/-0.016 χ^2/NDF : 19831.2/15

Left Out: -25.142+/-0.026 χ^2/NDF :18794.7/2

Right Out: -21.031+/-0.016 χ^2/NDF : 57523.6/17

Left In: -24.058+/-0.027 χ^2/NDF :9666.8/1

Left: -24.623+/-0.019 χ^2/NDF : 29312.5/4

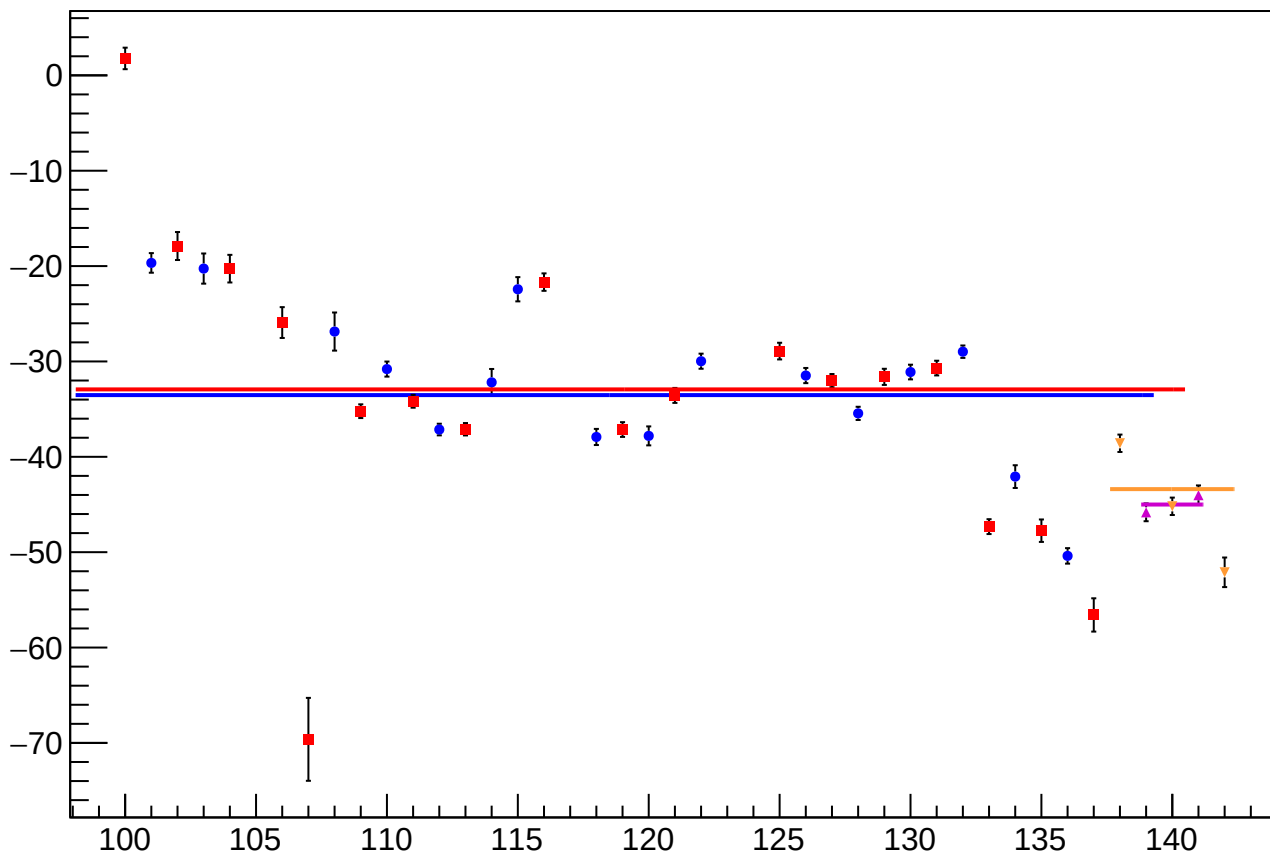
Right: -20.570+/-0.011 χ^2/NDF : 78882.9/33

In: -21.163+/-0.014 χ^2/NDF :45264.4/17

Out: -22.224+/-0.014 χ^2/NDF :94439.4/20

All: -21.689+/-0.010 χ^2/NDF : 142651.1/38

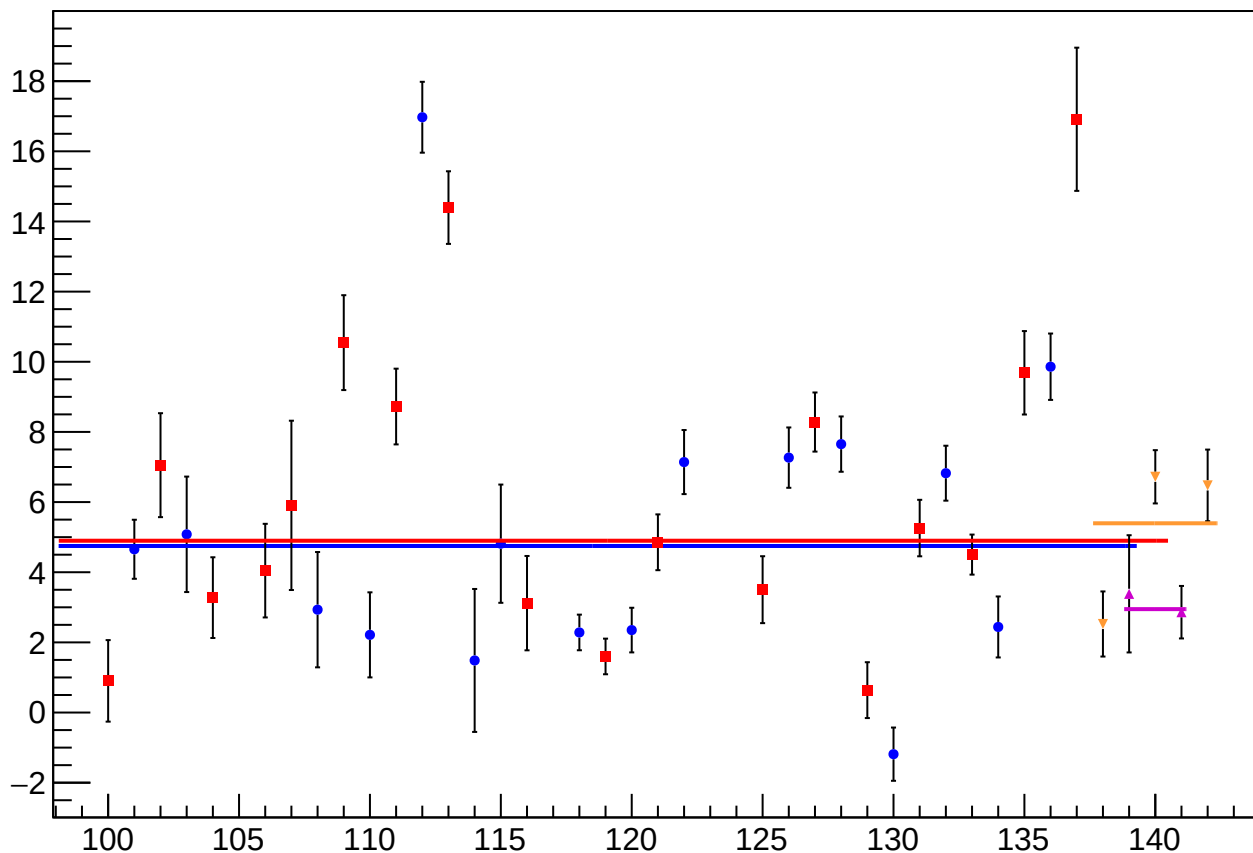
reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.528 ± 0.218 $\chi^2/\text{NDF}: 1008.7/15$
 Left Out: -43.388 ± 0.595 $\chi^2/\text{NDF}: 63.4/2$
 Right Out: -32.931 ± 0.212 $\chi^2/\text{NDF}: 2170.0/17$
 Left In: -45.004 ± 0.689 $\chi^2/\text{NDF}: 1.7/1$

Left: -44.078 ± 0.451 $\chi^2/\text{NDF}: 68.2/4$
 Right: -33.220 ± 0.152 $\chi^2/\text{NDF}: 3182.6/33$
 In: -34.575 ± 0.208 $\chi^2/\text{NDF}: 1262.2/17$
 Out: -34.103 ± 0.199 $\chi^2/\text{NDF}: 2507.2/20$
 All: -34.329 ± 0.144 $\chi^2/\text{NDF}: 3772.1/38$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.748 $\pm$ 0.220 χ^2 /NDF: 325.7/15

Left Out: 5.395 $\pm$ 0.509 χ^2 /NDF:13.7/2

Right Out: 4.898 $\pm$ 0.220 χ^2 /NDF: 273.1/17

Left In: 2.948 $\pm$ 0.683 χ^2 /NDF:0.1/1

Left: 4.521 $\pm$ 0.408 χ^2 /NDF: 22.1/4

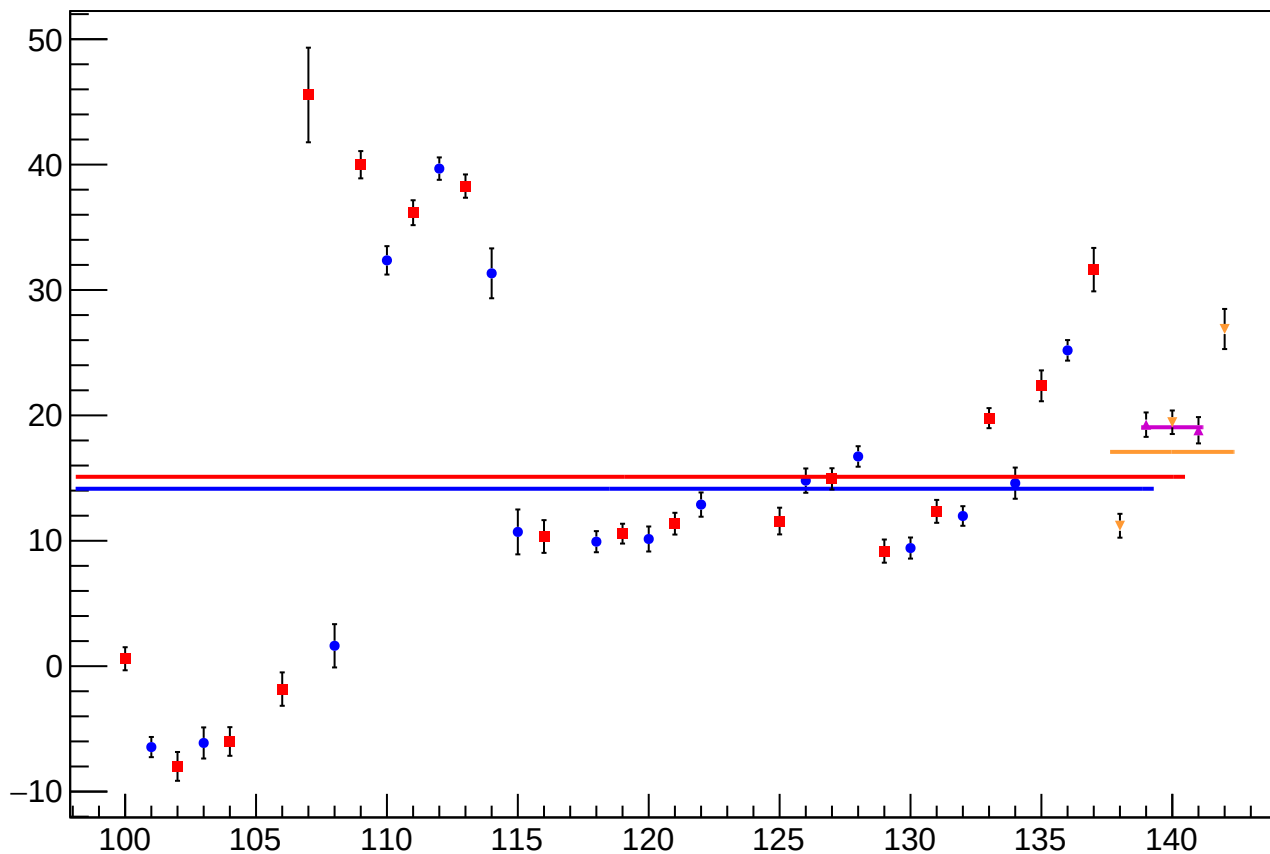
Right: 4.823 $\pm$ 0.155 χ^2 /NDF: 599.0/33

In: 4.580 $\pm$ 0.209 χ^2 /NDF:332.1/17

Out: 4.976 $\pm$ 0.202 χ^2 /NDF:287.6/20

All: 4.785 $\pm$ 0.145 χ^2 /NDF: 621.5/38

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 14.149 $\pm$ 0.247 χ^2 /NDF: 2402.4/15

Left Out: 17.089 $\pm$ 0.616 χ^2 /NDF:82.3/2

Right Out: 15.103 $\pm$ 0.242 χ^2 /NDF: 3102.3/17

Left In: 19.054 $\pm$ 0.714 χ^2 /NDF:0.1/1

Left: 17.929 $\pm$ 0.467 χ^2 /NDF: 86.7/4

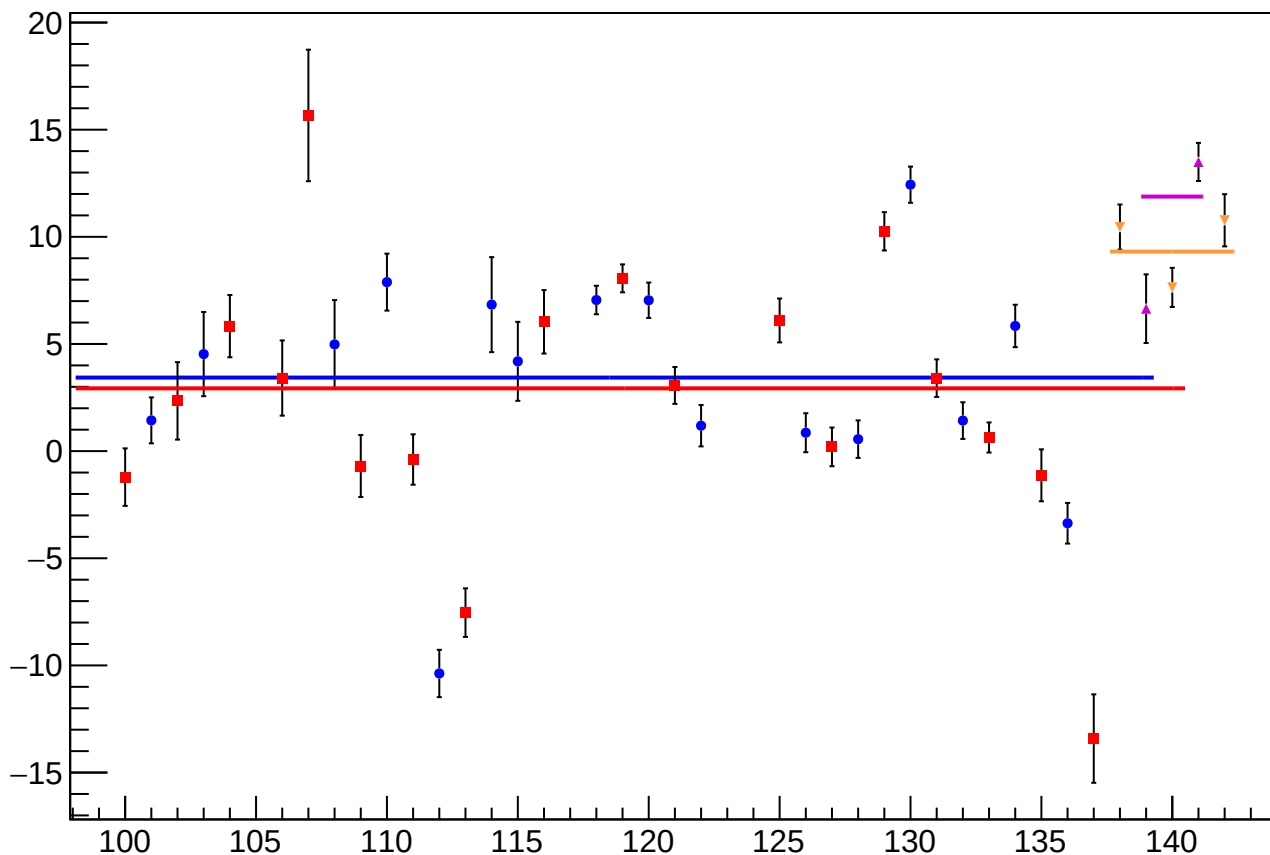
Right: 14.636 $\pm$ 0.173 χ^2 /NDF: 5512.3/33

In: 14.675 $\pm$ 0.234 χ^2 /NDF:2444.6/17

Out: 15.368 $\pm$ 0.225 χ^2 /NDF:3193.5/20

All: 15.034 $\pm$ 0.162 χ^2 /NDF: 5642.7/38

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 3.432 $\pm$ 0.254 χ^2 /NDF: 424.0/15

Left Out: 9.312 $\pm$ 0.600 χ^2 /NDF: 6.0/2

Right Out: 2.929 $\pm$ 0.253 χ^2 /NDF: 367.7/17

Left In: 11.878 $\pm$ 0.778 χ^2 /NDF: 14.0/1

Left: 10.269 $\pm$ 0.475 χ^2 /NDF: 26.8/4

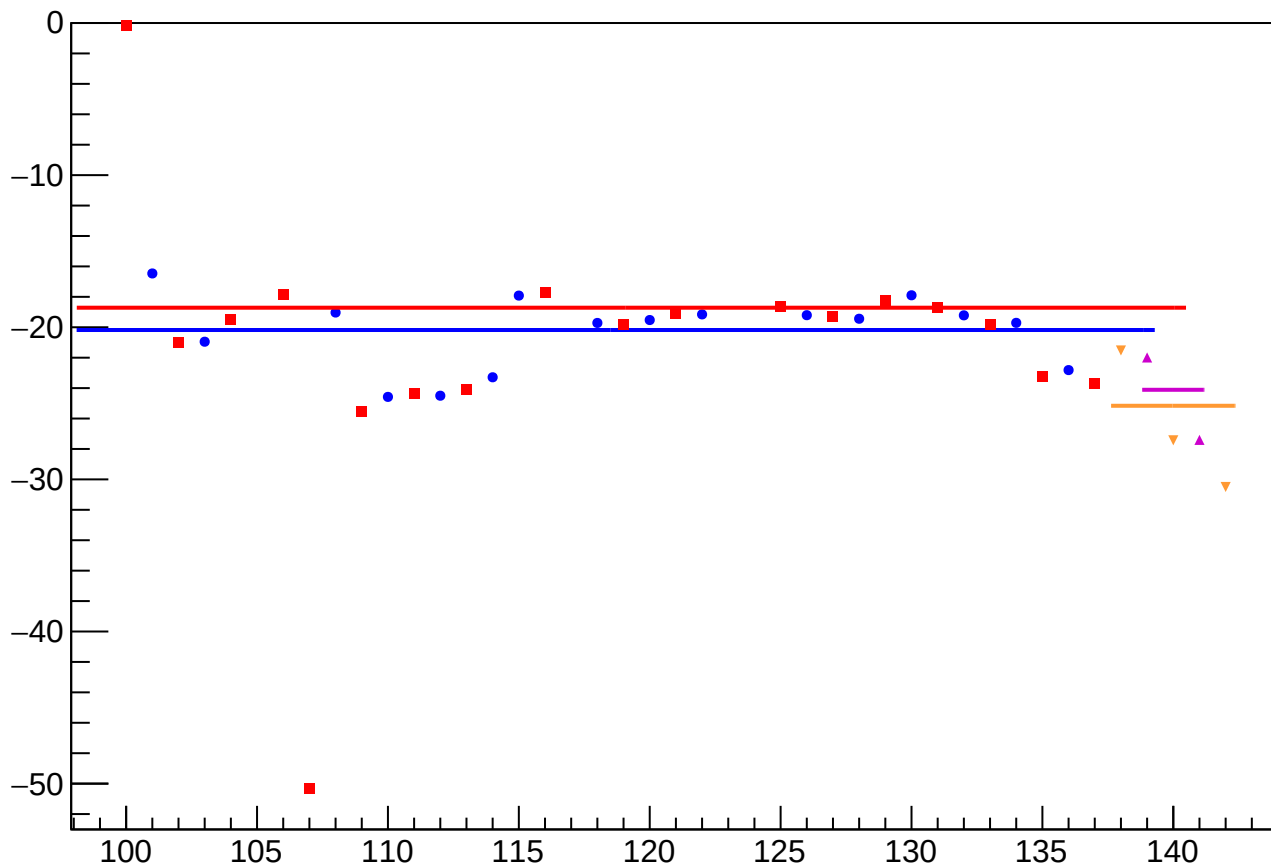
Right: 3.179 $\pm$ 0.179 χ^2 /NDF: 793.7/33

In: 4.247 $\pm$ 0.242 χ^2 /NDF: 544.5/17

Out: 3.894 $\pm$ 0.233 χ^2 /NDF: 469.7/20

All: 4.064 $\pm$ 0.168 χ^2 /NDF: 1015.3/38

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.180 ± 0.016 χ^2/NDF : 19856.9/15

Left Out: -25.161 ± 0.026 χ^2/NDF : 18836.4/2

Right Out: -18.714 ± 0.016 χ^2/NDF : 234667.0/17

Left In: -24.111 ± 0.027 χ^2/NDF : 9665.1/1

Left: -24.658 ± 0.019 χ^2/NDF : 29296.4/4

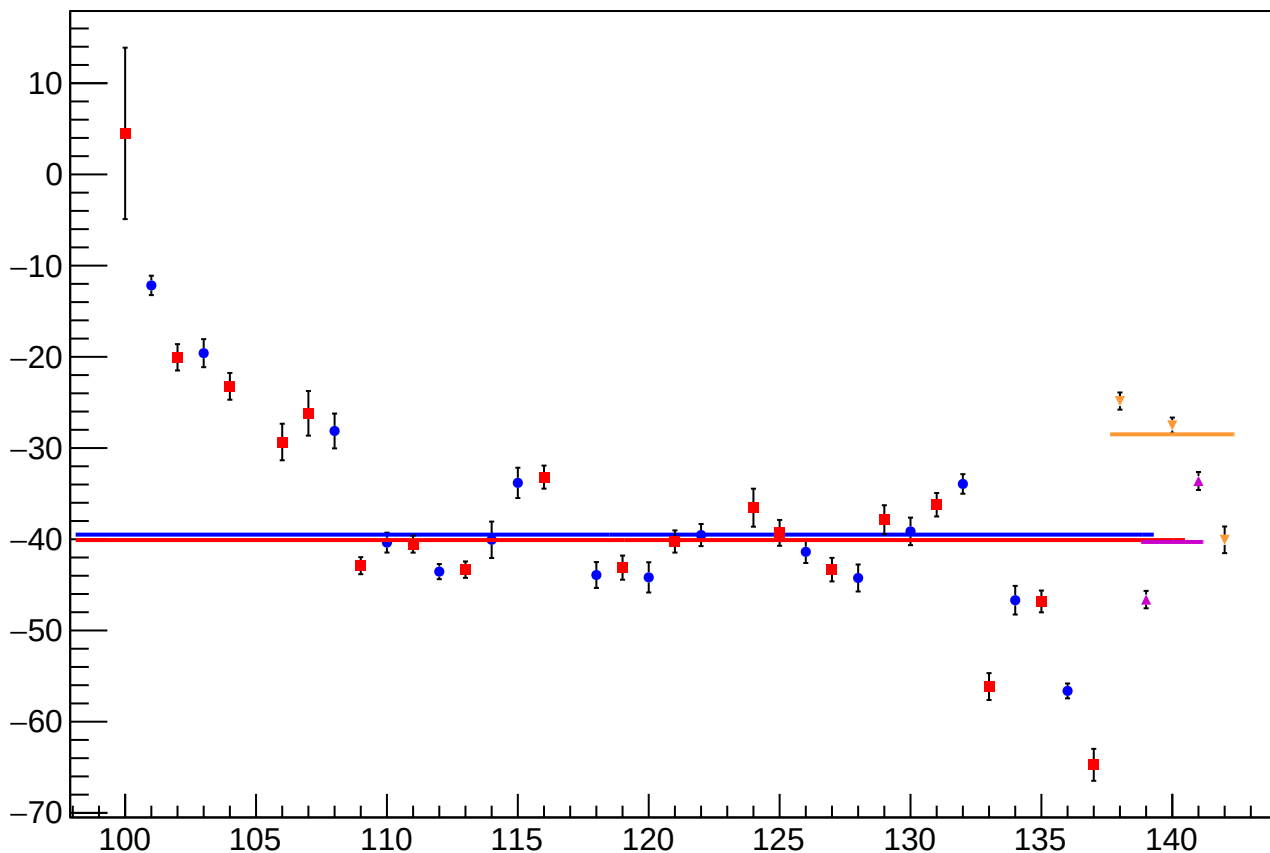
Right: -19.425 ± 0.011 χ^2/NDF : 258824.1/33

In: -21.212 ± 0.014 χ^2/NDF : 45259.4/17

Out: -20.436 ± 0.013 χ^2/NDF : 299336.7/20

All: -20.811 ± 0.010 χ^2/NDF : 346232.3/38

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -39.493+/-0.311 χ^2/NDF : 1417.1/15

Left Out: -28.495+/-0.583 χ^2/NDF : 79.0/2

Right Out: -40.090+/-0.307 χ^2/NDF : 834.9/18

Left In: -40.295+/-0.685 χ^2/NDF : 90.1/1

Left: -33.459+/-0.444 χ^2/NDF : 341.2/4

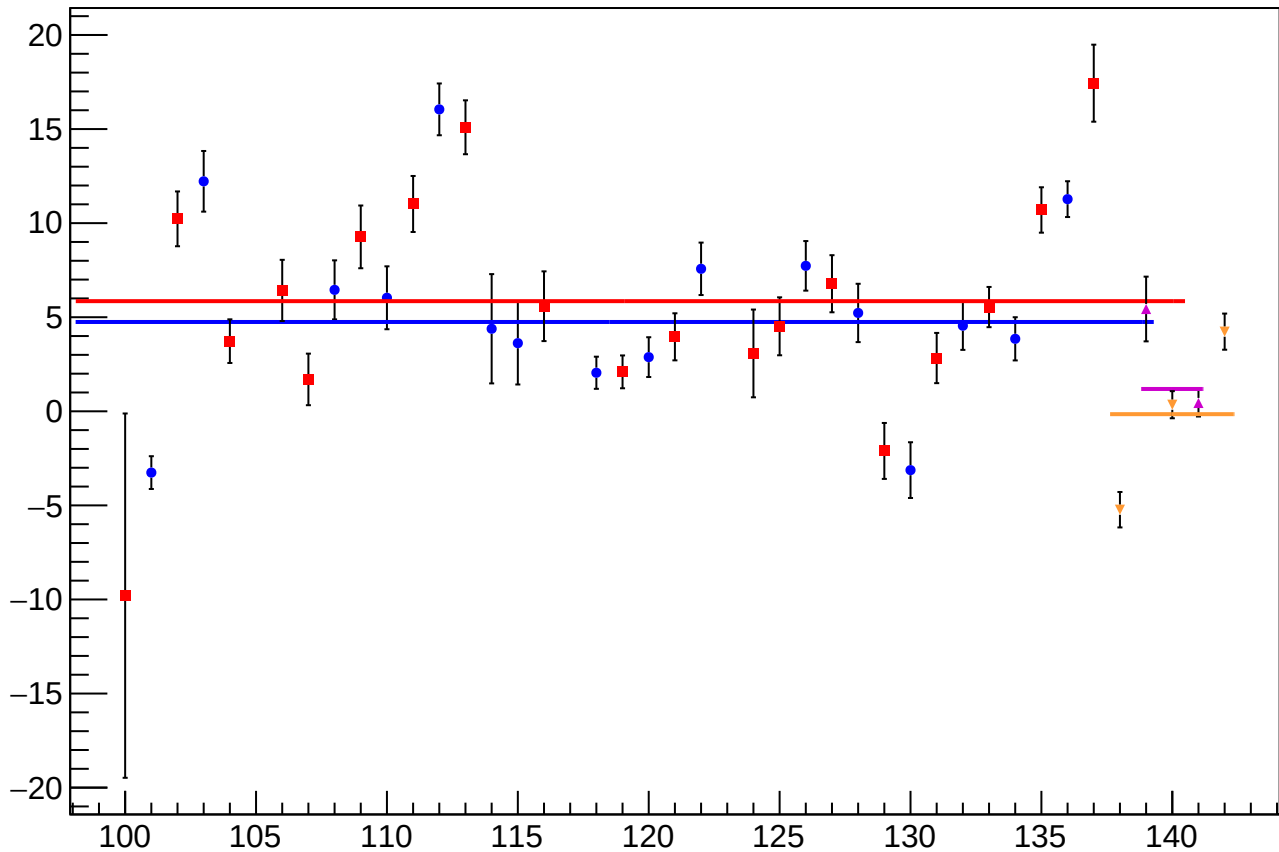
Right: -39.795+/-0.218 χ^2/NDF : 2253.9/34

In: -39.630+/-0.283 χ^2/NDF : 1508.3/17

Out: -37.575+/-0.272 χ^2/NDF : 1223.2/21

All: -38.561+/-0.196 χ^2/NDF : 2758.9/39

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.747 ± 0.316 χ^2/NDF : 273.8/15

Left Out: -0.152 ± 0.492 χ^2/NDF : 50.4/2

Right Out: 5.854 ± 0.324 χ^2/NDF : 187.6/18

Left In: 1.187 ± 0.664 χ^2/NDF : 7.2/1

Left: 0.322 ± 0.395 χ^2/NDF : 60.2/4

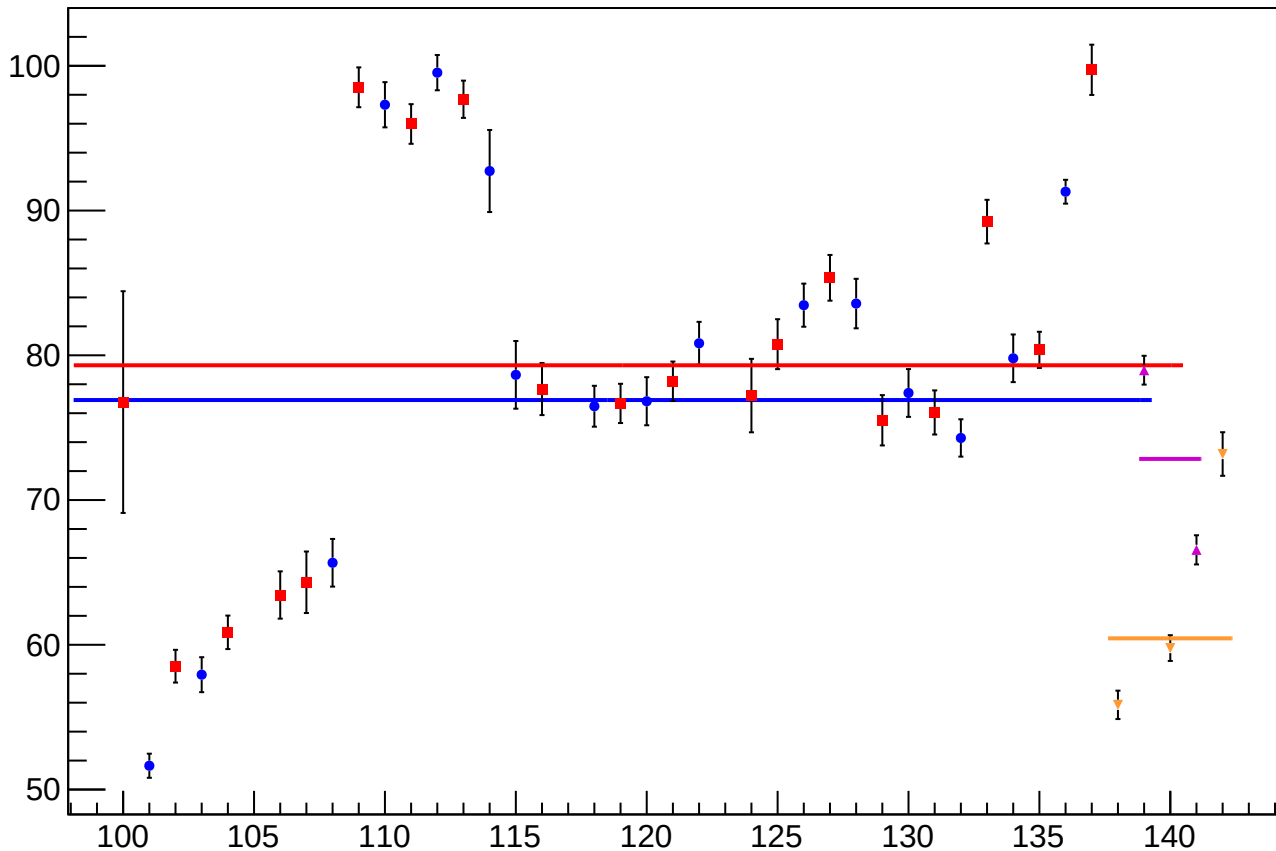
Right: 5.287 ± 0.226 χ^2/NDF : 467.4/34

In: 4.089 ± 0.285 χ^2/NDF : 304.5/17

Out: 4.036 ± 0.270 χ^2/NDF : 342.1/21

All: 4.061 ± 0.196 χ^2/NDF : 646.6/39

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.909+/-0.337 χ^2/NDF : 2116.0/15

Left Out: 60.444+/-0.604 χ^2/NDF : 94.0/2

Right Out: 79.311+/-0.348 χ^2/NDF : 1496.4/18

Left In: 72.842+/-0.708 χ^2/NDF : 76.8/1

Left: 65.661+/-0.459 χ^2/NDF : 348.3/4

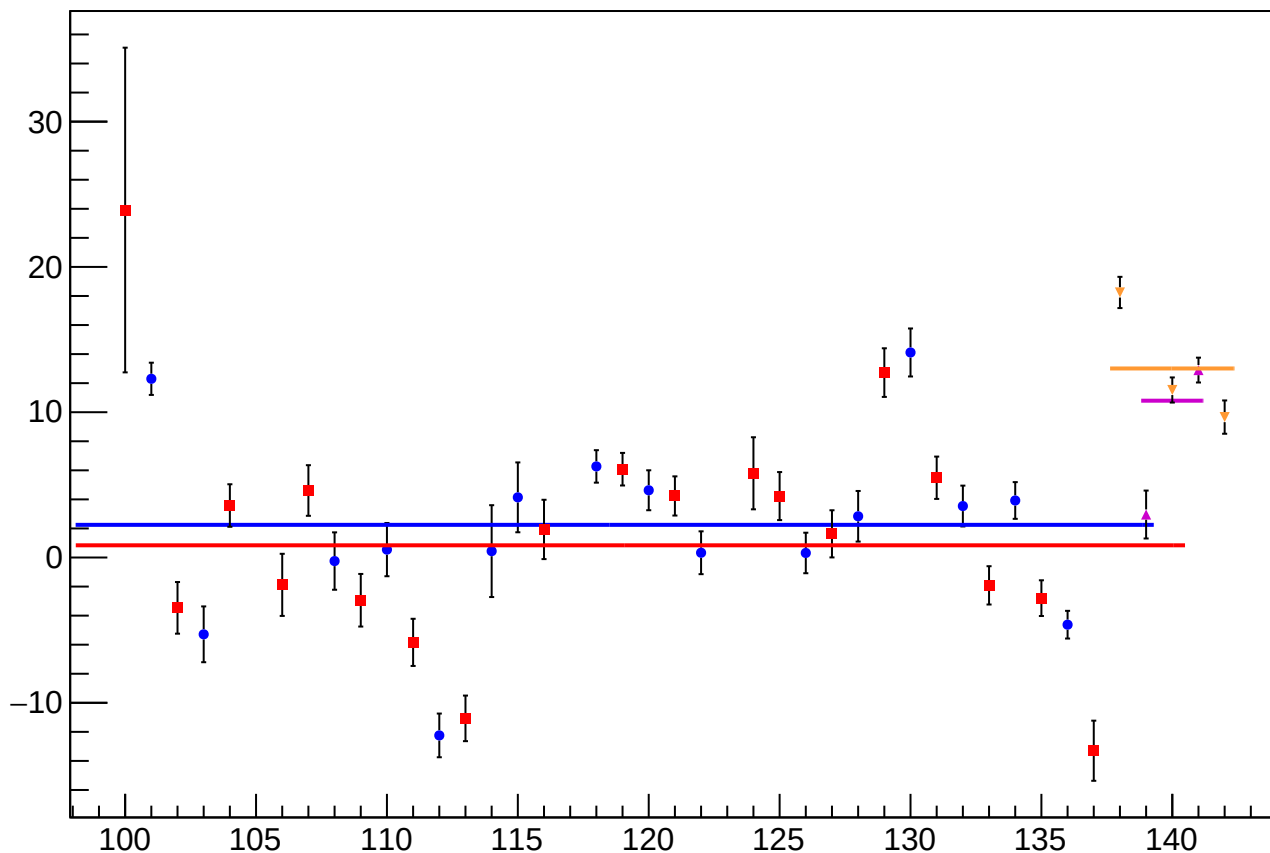
Right: 78.071+/-0.242 χ^2/NDF : 3636.9/34

In: 76.159+/-0.304 χ^2/NDF : 2219.6/17

Out: 74.608+/-0.301 χ^2/NDF : 2323.7/21

All: 75.376+/-0.214 χ^2/NDF : 4556.5/39

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.248 $\pm$ 0.363 χ^2/NDF : 319.6/15

Left Out: 13.011 $\pm$ 0.581 χ^2/NDF :35.2/2

Right Out: 0.840 $\pm$ 0.372 χ^2/NDF : 256.2/18

Left In: 10.793 $\pm$ 0.759 χ^2/NDF :28.7/1

Left: 12.192 $\pm$ 0.461 χ^2/NDF : 69.2/4

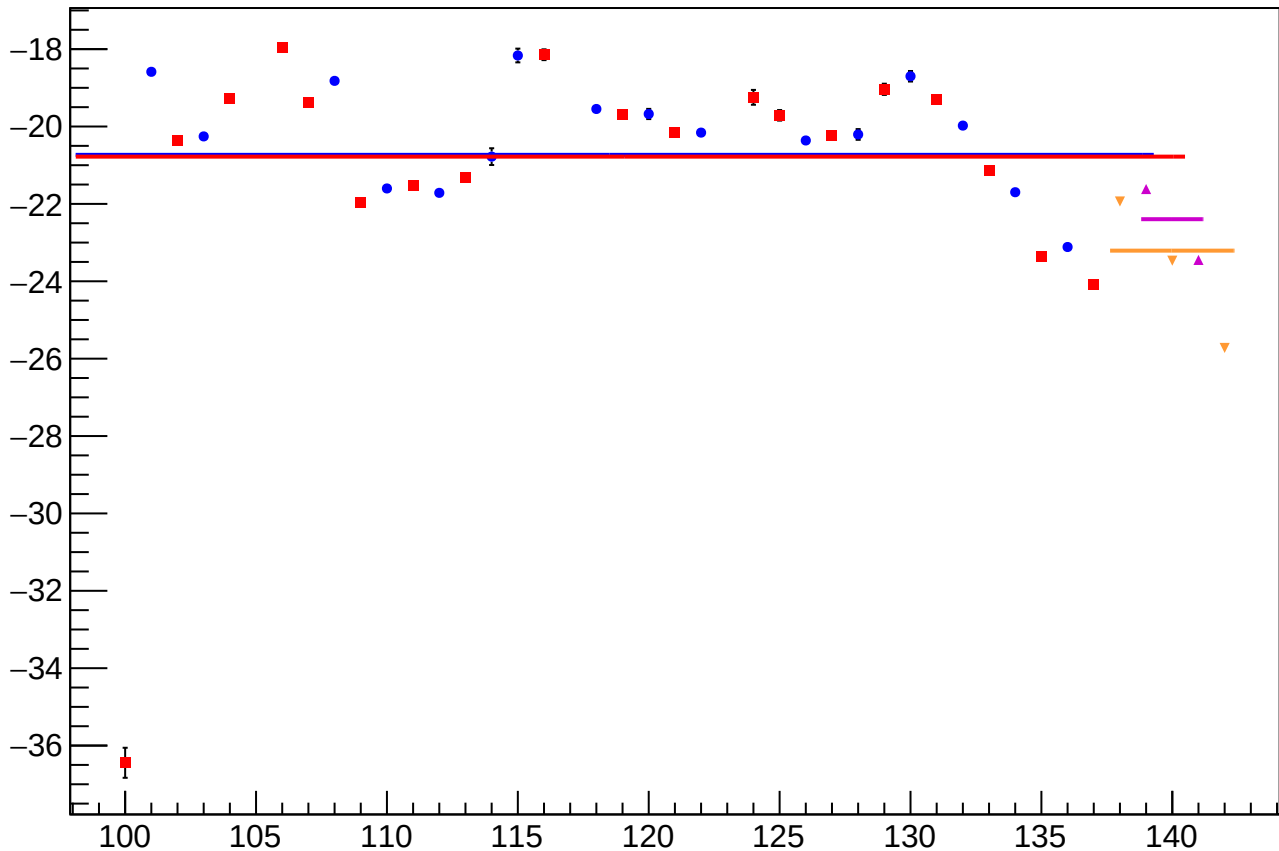
Right: 1.561 $\pm$ 0.260 χ^2/NDF : 583.2/34

In: 3.839 $\pm$ 0.328 χ^2/NDF :451.4/17

Out: 4.381 $\pm$ 0.313 χ^2/NDF :602.7/21

All: 4.122 $\pm$ 0.226 χ^2/NDF : 1055.5/39

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.732 ± 0.019 $\chi^2/\text{NDF}: 7634.1/15$

Left Out: -23.208 ± 0.025 $\chi^2/\text{NDF}: 2755.7/2$

Right Out: -20.778 ± 0.020 $\chi^2/\text{NDF}: 9426.6/18$

Left In: -22.395 ± 0.027 $\chi^2/\text{NDF}: 1132.8/1$

Left: -22.825 ± 0.018 $\chi^2/\text{NDF}: 4371.2/4$

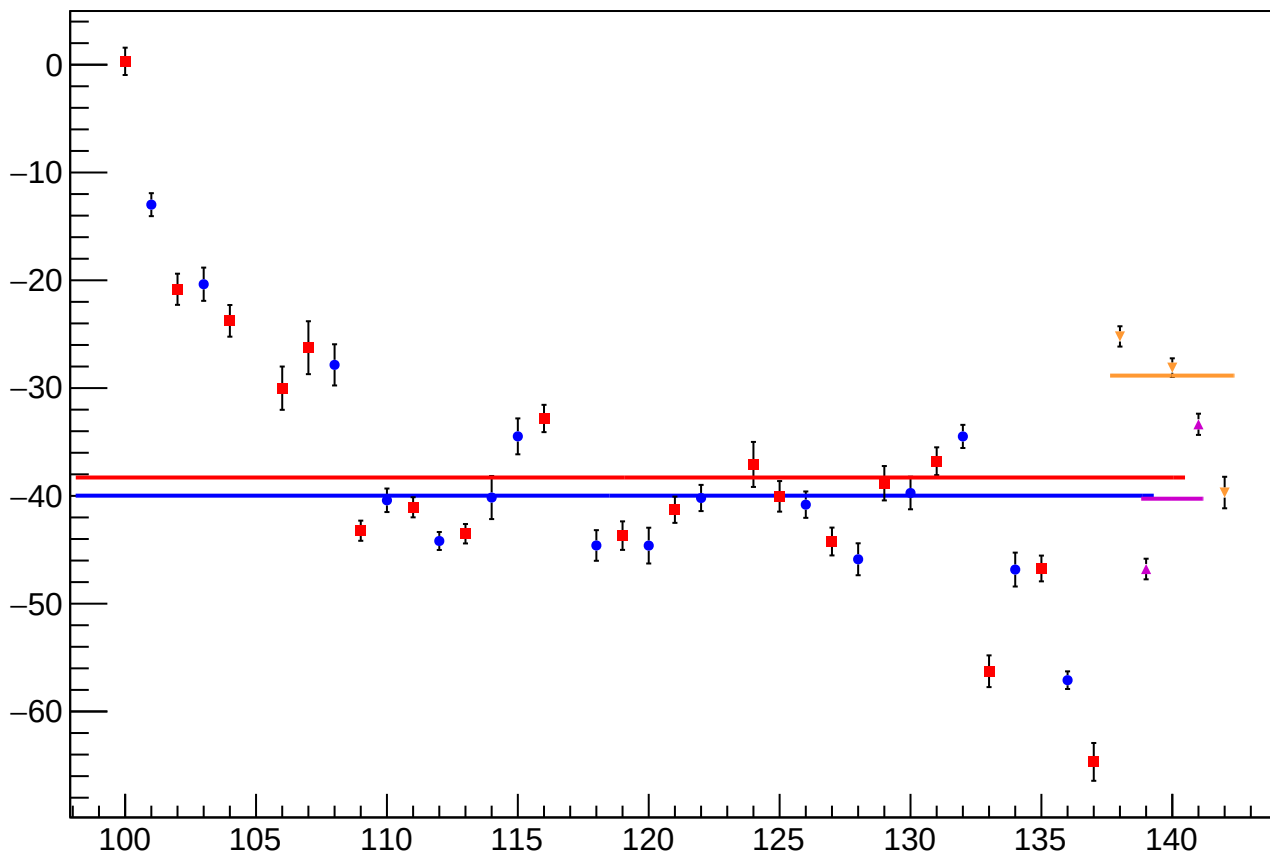
Right: -20.755 ± 0.014 $\chi^2/\text{NDF}: 17063.4/34$

In: -21.302 ± 0.016 $\chi^2/\text{NDF}: 11277.1/17$

Out: -21.720 ± 0.016 $\chi^2/\text{NDF}: 17793.7/21$

All: -21.510 ± 0.011 $\chi^2/\text{NDF}: 29421.4/39$

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -39.979 ± 0.311 $\chi^2/\text{NDF}: 1398.4/15$

Left Out: -28.842 ± 0.585 $\chi^2/\text{NDF}: 70.7/2$

Right Out: -38.295 ± 0.299 $\chi^2/\text{NDF}: 1773.8/18$

Left In: -40.262 ± 0.686 $\chi^2/\text{NDF}: 95.7/1$

Left: -33.645 ± 0.445 $\chi^2/\text{NDF}: 326.9/4$

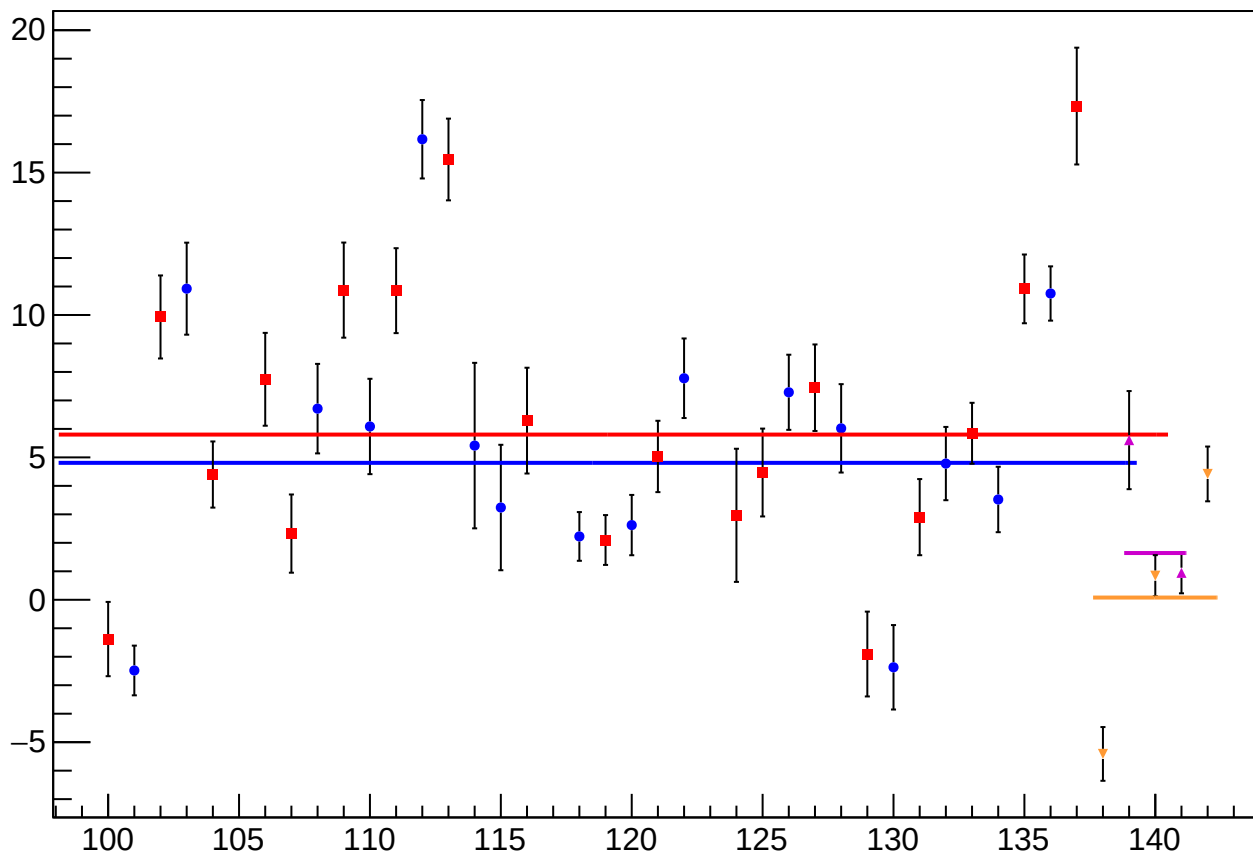
Right: -39.104 ± 0.216 $\chi^2/\text{NDF}: 3187.4/34$

In: -40.028 ± 0.283 $\chi^2/\text{NDF}: 1494.2/17$

Out: -36.334 ± 0.266 $\chi^2/\text{NDF}: 2051.7/21$

All: -38.066 ± 0.194 $\chi^2/\text{NDF}: 3636.1/39$

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.808 ± 0.316 $\chi^2/\text{NDF}: 240.5/15$

Left Out: 0.078 ± 0.492 $\chi^2/\text{NDF}: 55.4/2$

Right Out: 5.801 ± 0.315 $\chi^2/\text{NDF}: 216.4/18$

Left In: 1.642 ± 0.665 $\chi^2/\text{NDF}: 6.2/1$

Left: 0.632 ± 0.396 $\chi^2/\text{NDF}: 65.2/4$

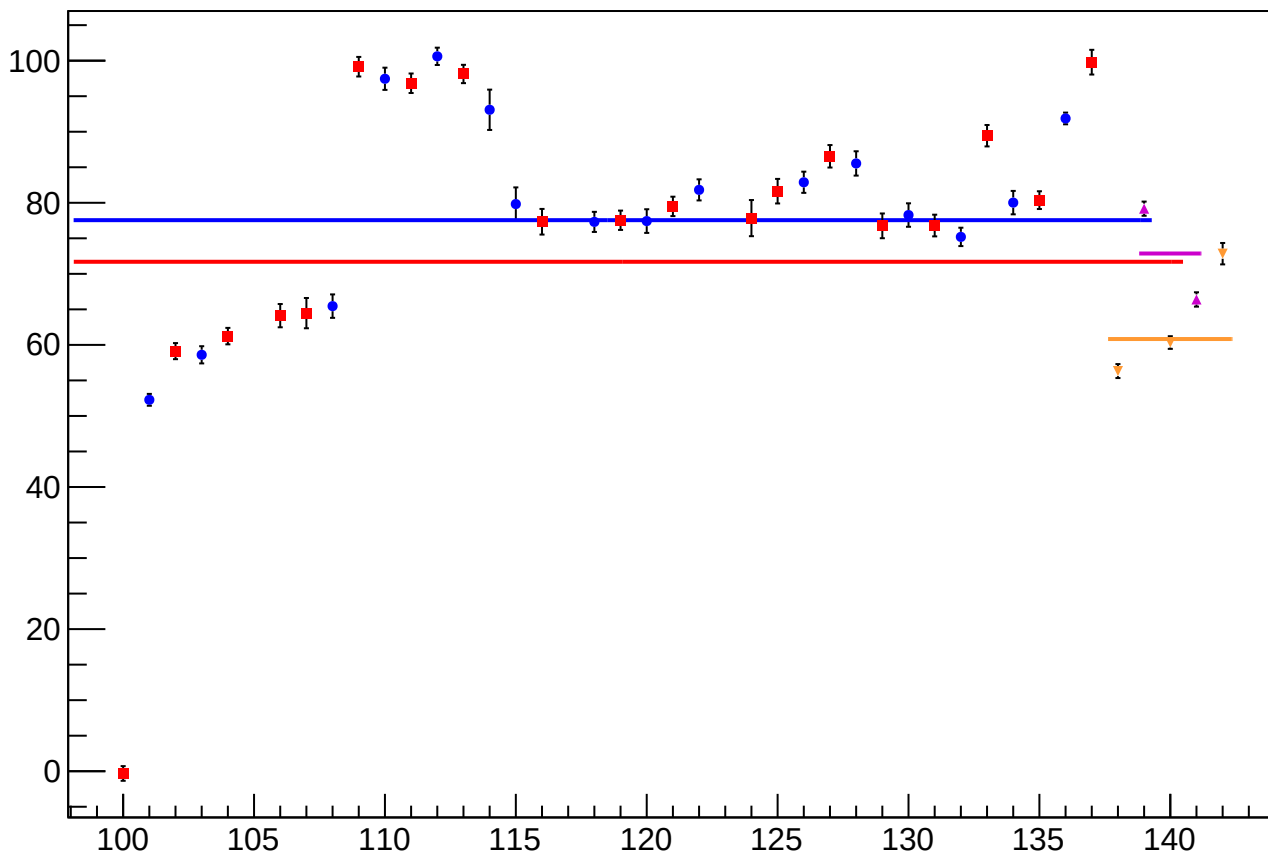
Right: 5.307 ± 0.223 $\chi^2/\text{NDF}: 461.9/34$

In: 4.224 ± 0.286 $\chi^2/\text{NDF}: 265.2/17$

Out: 4.139 ± 0.265 $\chi^2/\text{NDF}: 367.6/21$

All: 4.178 ± 0.194 $\chi^2/\text{NDF}: 632.9/39$

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 77.554+/-0.337 χ^2/NDF : 2118.3/15

Left Out: 60.826+/-0.605 χ^2/NDF : 84.8/2

Right Out: 71.699+/-0.330 χ^2/NDF : 6903.5/18

Left In: 72.861+/-0.710 χ^2/NDF : 81.0/1

Left: 65.890+/-0.460 χ^2/NDF : 332.5/4

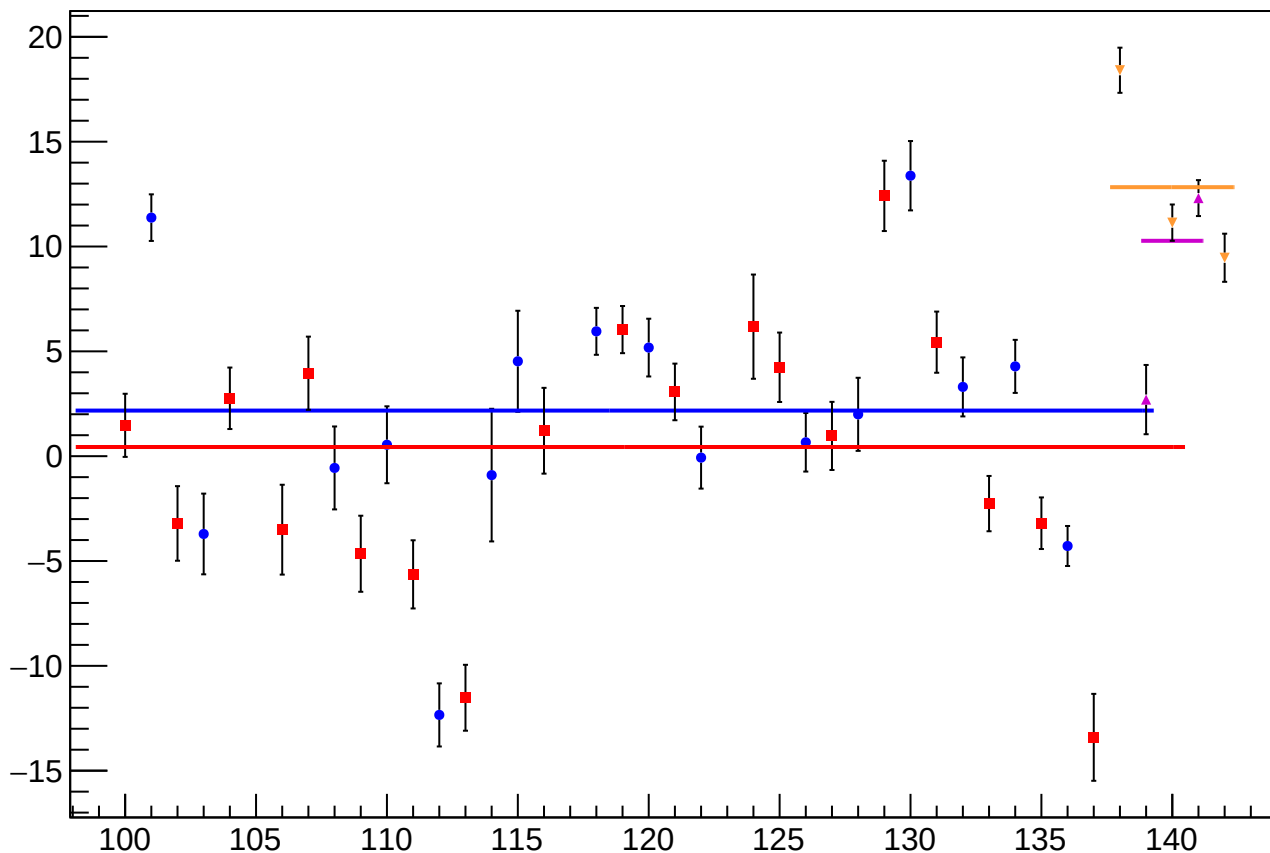
Right: 74.565+/-0.236 χ^2/NDF : 9175.5/34

In: 76.689+/-0.305 χ^2/NDF : 2235.0/17

Out: 69.199+/-0.290 χ^2/NDF : 7237.2/21

All: 72.759+/-0.210 χ^2/NDF : 9789.3/39

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.175 ± 0.364 χ^2/NDF : 290.3/15

Left Out: 12.830 ± 0.582 χ^2/NDF : 39.2/2

Right Out: 0.438 ± 0.362 χ^2/NDF : 254.1/18

Left In: 10.272 ± 0.761 χ^2/NDF : 26.7/1

Left: 11.886 ± 0.462 χ^2/NDF : 73.1/4

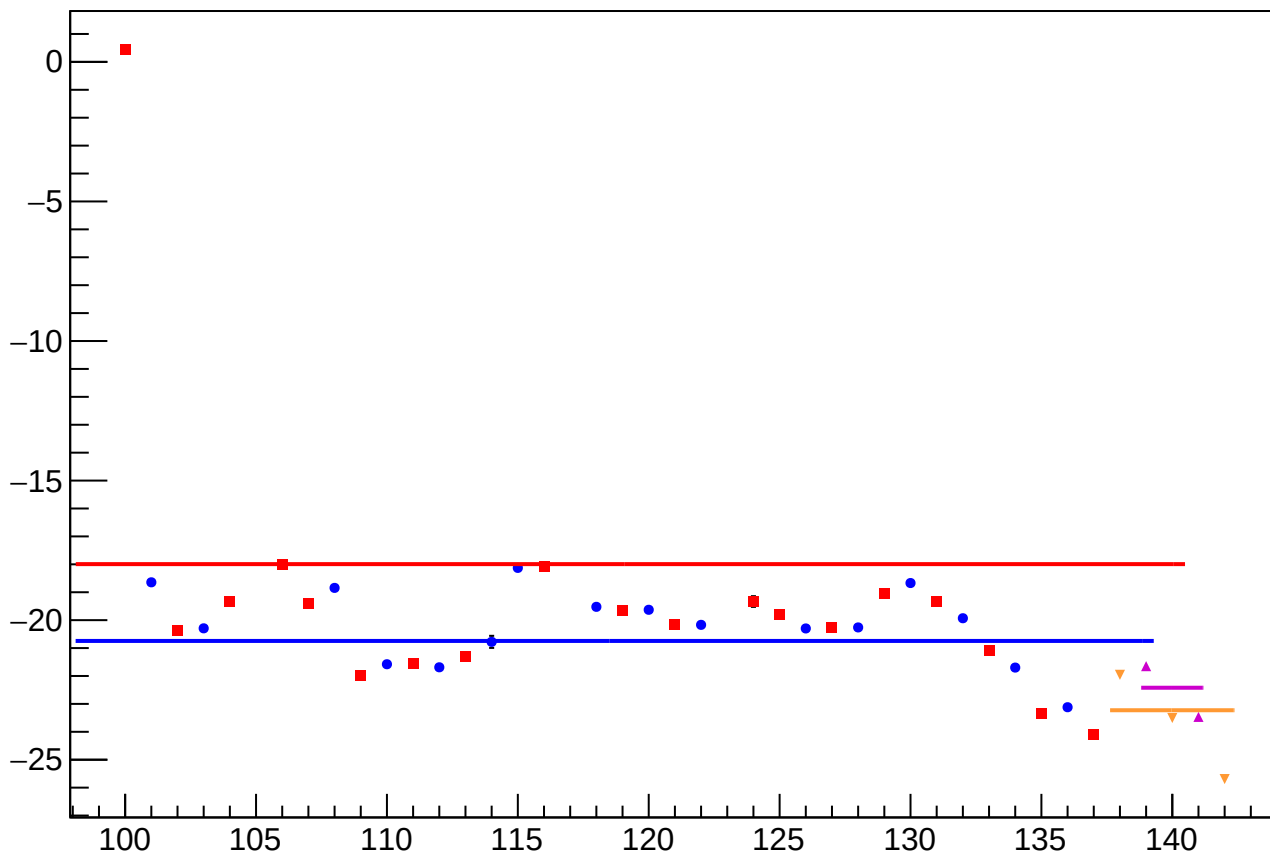
Right: 1.302 ± 0.257 χ^2/NDF : 555.9/34

In: 3.681 ± 0.328 χ^2/NDF : 409.2/17

Out: 3.895 ± 0.307 χ^2/NDF : 620.5/21

All: 3.795 ± 0.224 χ^2/NDF : 1029.9/39

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.745 ± 0.019 $\chi^2/\text{NDF}: 7513.6/15$

Left Out: -23.228 ± 0.025 $\chi^2/\text{NDF}: 2688.3/2$

Right Out: -17.993 ± 0.019 $\chi^2/\text{NDF}: 150579.1/18$

Left In: -22.421 ± 0.027 $\chi^2/\text{NDF}: 1109.9/1$

Left: -22.848 ± 0.019 $\chi^2/\text{NDF}: 4271.4/4$

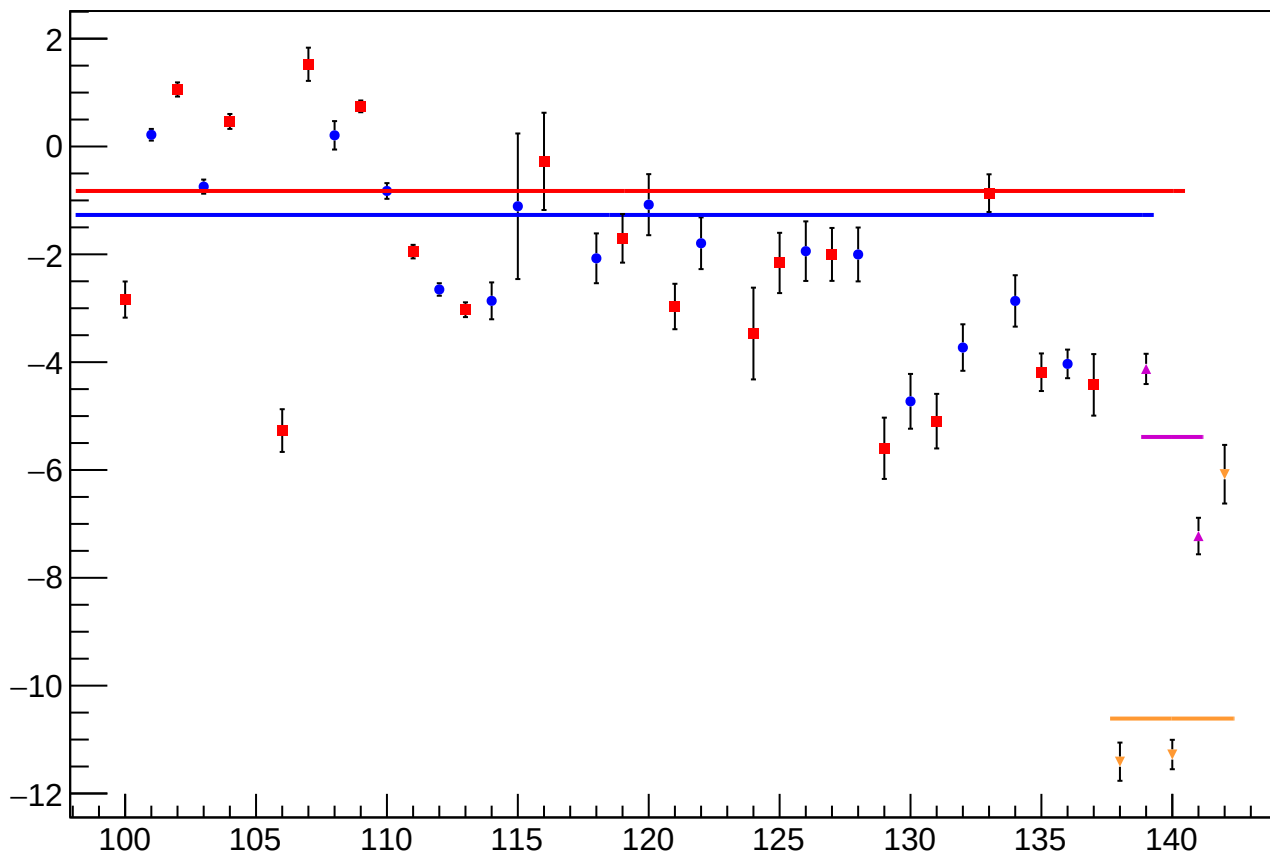
Right: -19.328 ± 0.014 $\chi^2/\text{NDF}: 168397.6/34$

In: -21.318 ± 0.016 $\chi^2/\text{NDF}: 11166.1/17$

Out: -19.852 ± 0.015 $\chi^2/\text{NDF}: 180576.6/21$

All: -20.556 ± 0.011 $\chi^2/\text{NDF}: 196233.3/39$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.270 ± 0.055 χ^2/NDF : 616.5/15

Left Out: -10.611 ± 0.201 χ^2/NDF : 80.6/2

Right Out: -0.825 ± 0.051 χ^2/NDF : 1384.3/18

Left In: -5.387 ± 0.216 χ^2/NDF : 49.7/1

Left: -8.188 ± 0.147 χ^2/NDF : 443.8/4

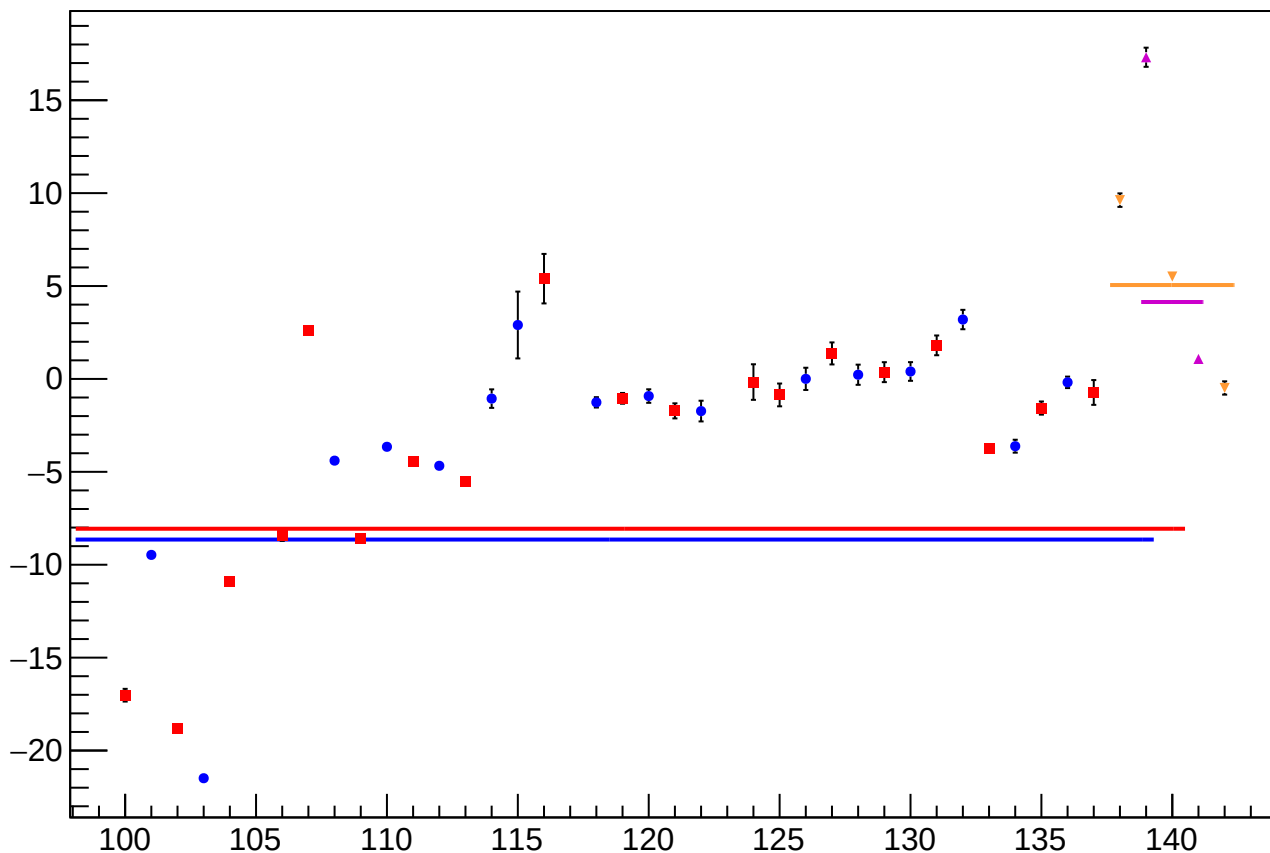
Right: -1.033 ± 0.037 χ^2/NDF : 2036.2/34

In: -1.516 ± 0.053 χ^2/NDF : 1007.8/17

Out: -1.418 ± 0.049 χ^2/NDF : 3694.1/21

All: -1.464 ± 0.036 χ^2/NDF : 4703.7/39

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.645+/-0.057 χ^2/NDF : 13827.6/15

Left Out: 5.054+/-0.171 χ^2/NDF :401.0/2

Right Out: -8.063+/-0.058 χ^2/NDF : 14427.9/18

Left In: 4.140+/-0.224 χ^2/NDF :805.7/1

Left: 4.718+/-0.136 χ^2/NDF : 1217.2/4

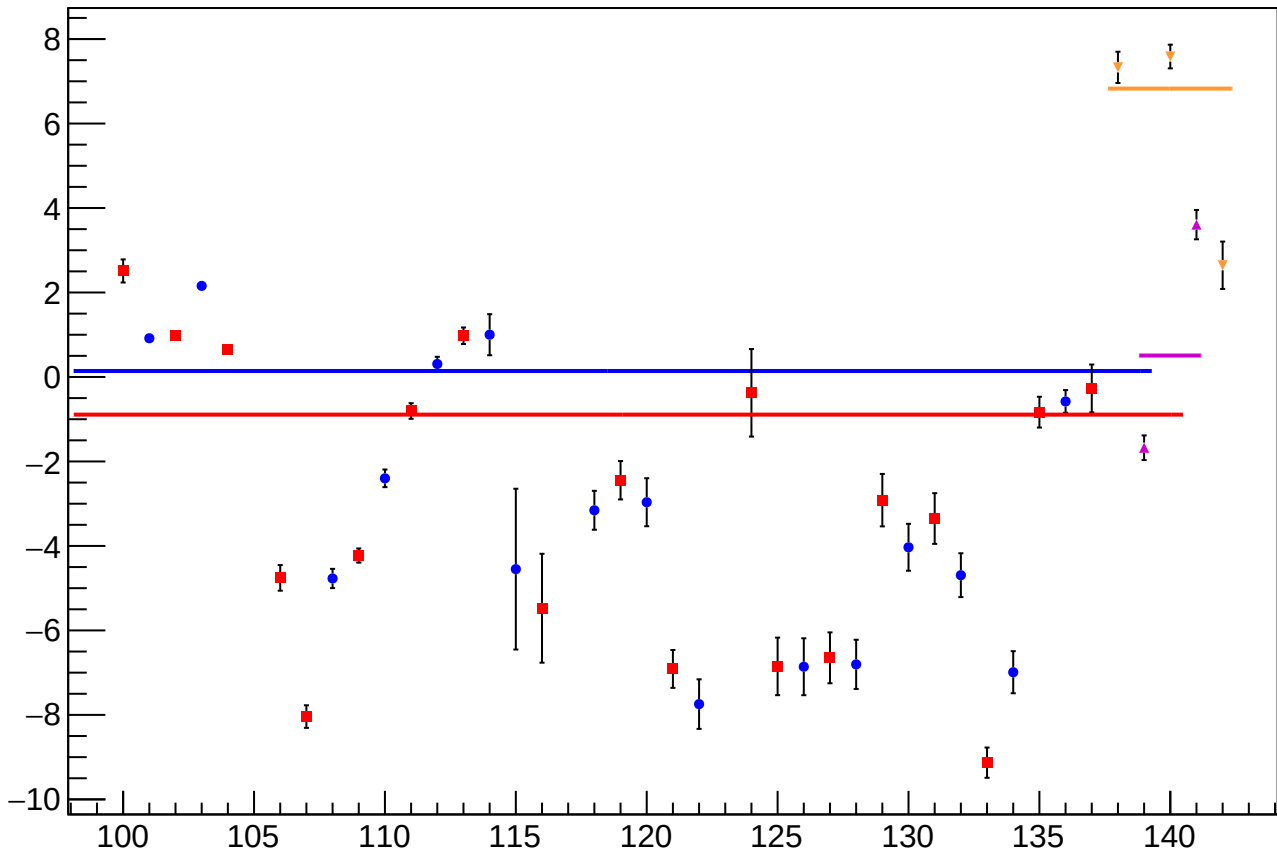
Right: -8.357+/-0.040 χ^2/NDF : 28307.3/34

In: -7.868+/-0.055 χ^2/NDF :17698.6/17

Out: -6.725+/-0.054 χ^2/NDF :20136.4/21

All: -7.289+/-0.039 χ^2/NDF : 38052.1/39

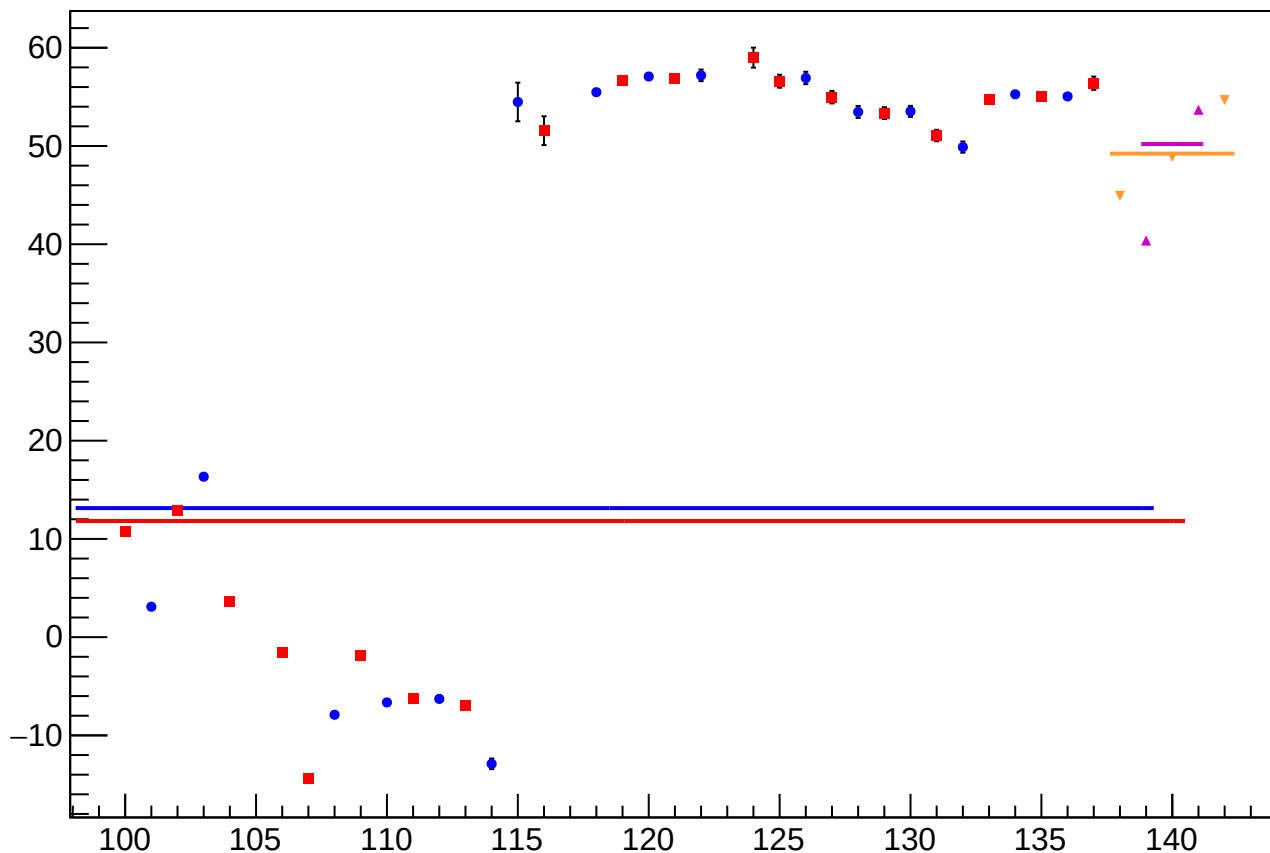
reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.141 $\pm$ 0.053 χ^2 /NDF: 1959.8/15
 Left Out: 6.828 $\pm$ 0.208 χ^2 /NDF:64.8/2
 Right Out: -0.891 $\pm$ 0.054 χ^2 /NDF: 2985.7/18
 Left In: 0.508 $\pm$ 0.223 χ^2 /NDF:135.6/1

Left: 3.896 $\pm$ 0.152 χ^2 /NDF: 629.9/4
 Right: -0.368 $\pm$ 0.038 χ^2 /NDF: 5133.2/34
 In: 0.161 $\pm$ 0.052 χ^2 /NDF:2097.9/17
 Out: -0.409 $\pm$ 0.052 χ^2 /NDF:4345.4/21
 All: -0.122 $\pm$ 0.037 χ^2 /NDF: 6504.1/39

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.136 $\pm$ 0.068 χ^2 /NDF: 108574.4/15

Left Out: 49.221 $\pm$ 0.202 χ^2 /NDF: 273.0/2

Right Out: 11.822 $\pm$ 0.068 χ^2 /NDF: 118168.5/18

Left In: 50.200 $\pm$ 0.253 χ^2 /NDF: 533.9/1

Left: 49.601 $\pm$ 0.158 χ^2 /NDF: 816.0/4

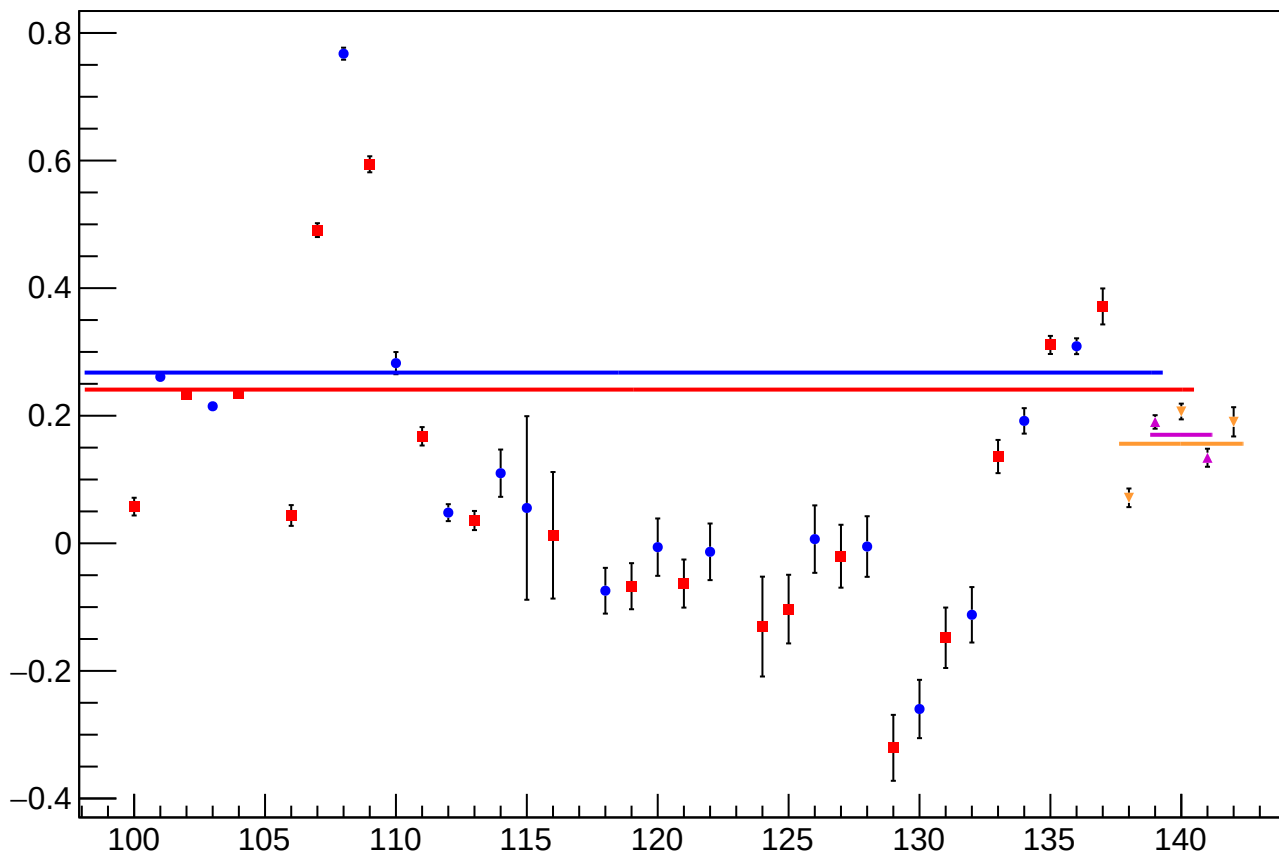
Right: 12.478 $\pm$ 0.048 χ^2 /NDF: 226930.1/34

In: 15.622 $\pm$ 0.066 χ^2 /NDF: 129068.7/17

Out: 15.625 $\pm$ 0.064 χ^2 /NDF: 149333.3/21

All: 15.624 $\pm$ 0.046 χ^2 /NDF: 278402.0/39

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.268 ± 0.003 $\chi^2/\text{NDF}: 3720.4/15$

Left Out: 0.156 ± 0.009 $\chi^2/\text{NDF}: 52.8/2$

Right Out: 0.241 ± 0.003 $\chi^2/\text{NDF}: 2339.2/18$

Left In: 0.170 ± 0.008 $\chi^2/\text{NDF}: 10.1/1$

Left: 0.163 ± 0.006 $\chi^2/\text{NDF}: 64.2/4$

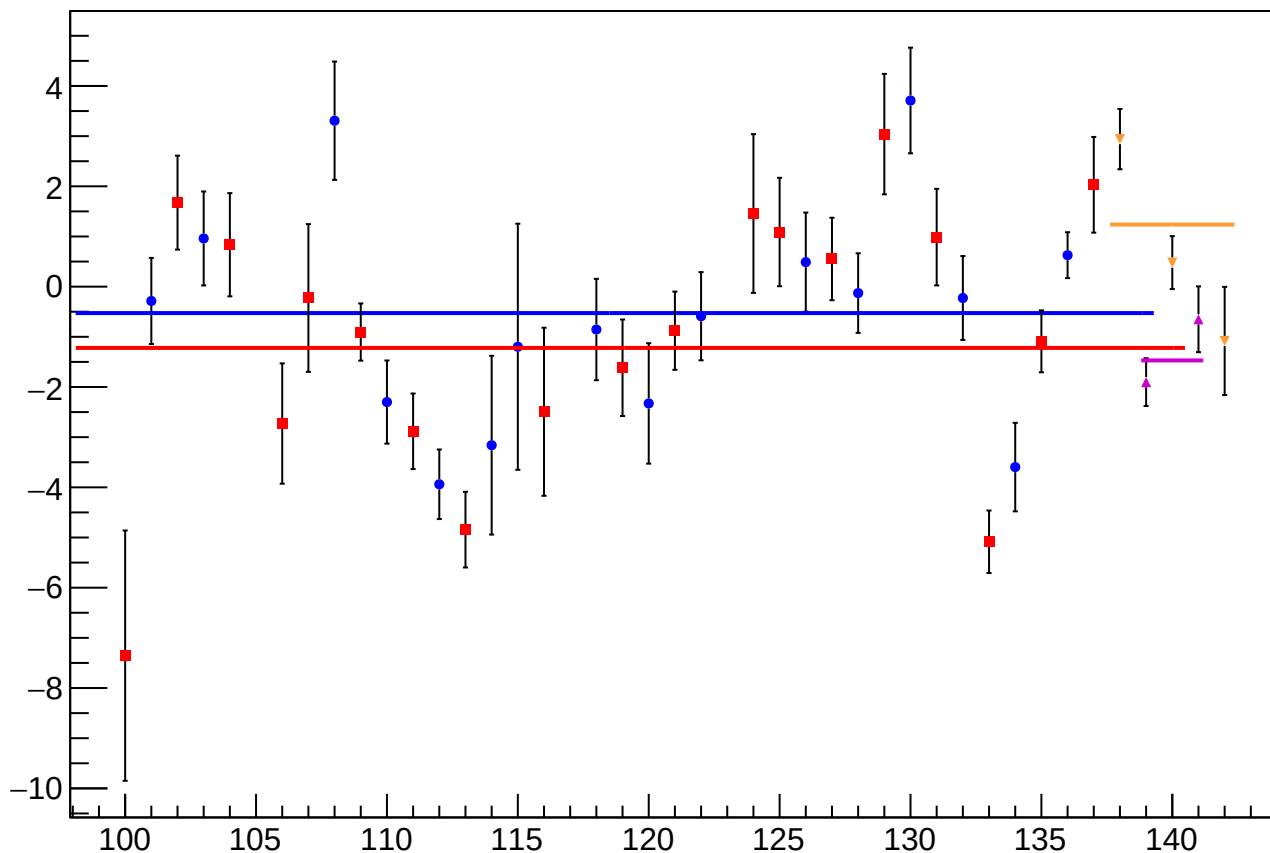
Right: 0.254 ± 0.002 $\chi^2/\text{NDF}: 6105.9/34$

In: 0.258 ± 0.003 $\chi^2/\text{NDF}: 3849.7/17$

Out: 0.233 ± 0.003 $\chi^2/\text{NDF}: 2478.4/21$

All: 0.246 ± 0.002 $\chi^2/\text{NDF}: 6372.4/39$

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.527 ± 0.217 χ^2/NDF : 82.7/15

Left Out: 1.238 ± 0.372 χ^2/NDF : 14.7/2

Right Out: -1.221 ± 0.205 χ^2/NDF : 130.9/18

Left In: -1.470 ± 0.385 χ^2/NDF : 2.4/1

Left: -0.069 ± 0.268 χ^2/NDF : 42.7/4

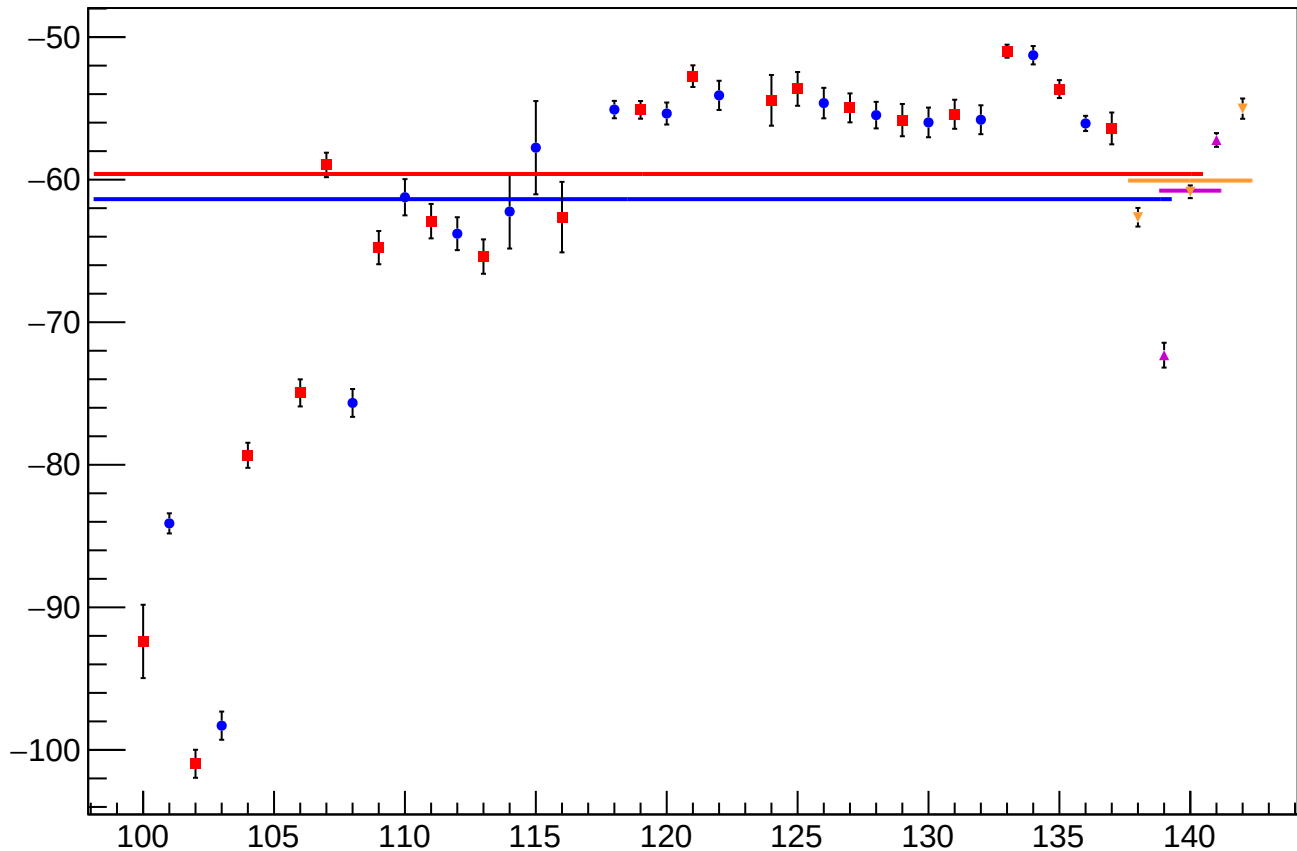
Right: -0.894 ± 0.149 χ^2/NDF : 219.1/34

In: -0.754 ± 0.189 χ^2/NDF : 89.7/17

Out: -0.650 ± 0.179 χ^2/NDF : 179.2/21

All: -0.699 ± 0.130 χ^2/NDF : 269.0/39

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -61.367 ± 0.219 χ^2/NDF : 3351.2/15

Left Out: -60.063 ± 0.327 χ^2/NDF : 68.9/2

Right Out: -59.601 ± 0.207 χ^2/NDF : 3421.3/18

Left In: -60.771 ± 0.423 χ^2/NDF : 229.6/1

Left: -60.328 ± 0.259 χ^2/NDF : 300.2/4

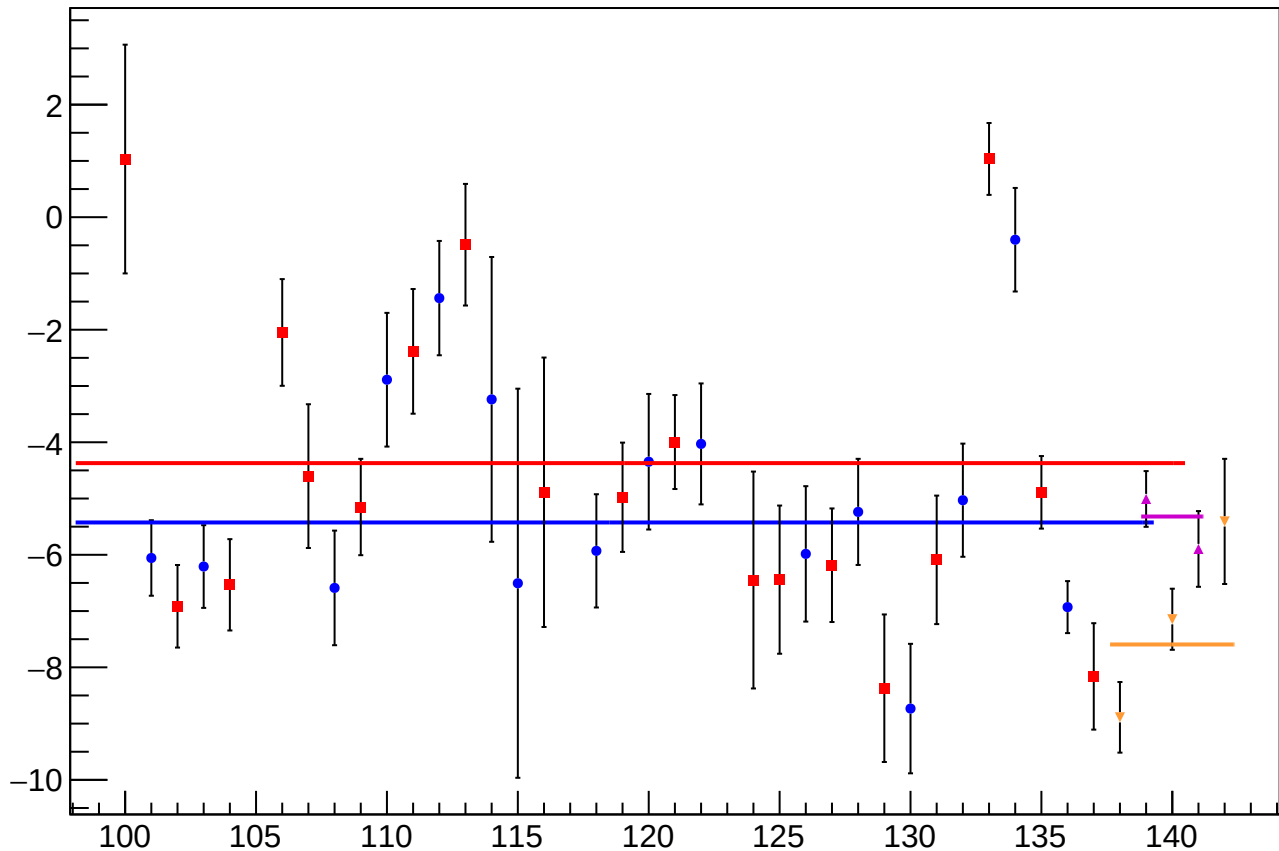
Right: -60.433 ± 0.150 χ^2/NDF : 6806.9/34

In: -61.241 ± 0.194 χ^2/NDF : 3582.3/17

Out: -59.733 ± 0.175 χ^2/NDF : 3491.6/21

All: -60.406 ± 0.130 χ^2/NDF : 7107.2/39

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.425 ± 0.230 $\chi^2/\text{NDF}: 76.0/15$

Left Out: -7.594 ± 0.385 $\chi^2/\text{NDF}: 8.8/2$

Right Out: -4.371 ± 0.223 $\chi^2/\text{NDF}: 156.6/18$

Left In: -5.320 ± 0.399 $\chi^2/\text{NDF}: 1.1/1$

Left: -6.497 ± 0.277 $\chi^2/\text{NDF}: 26.8/4$

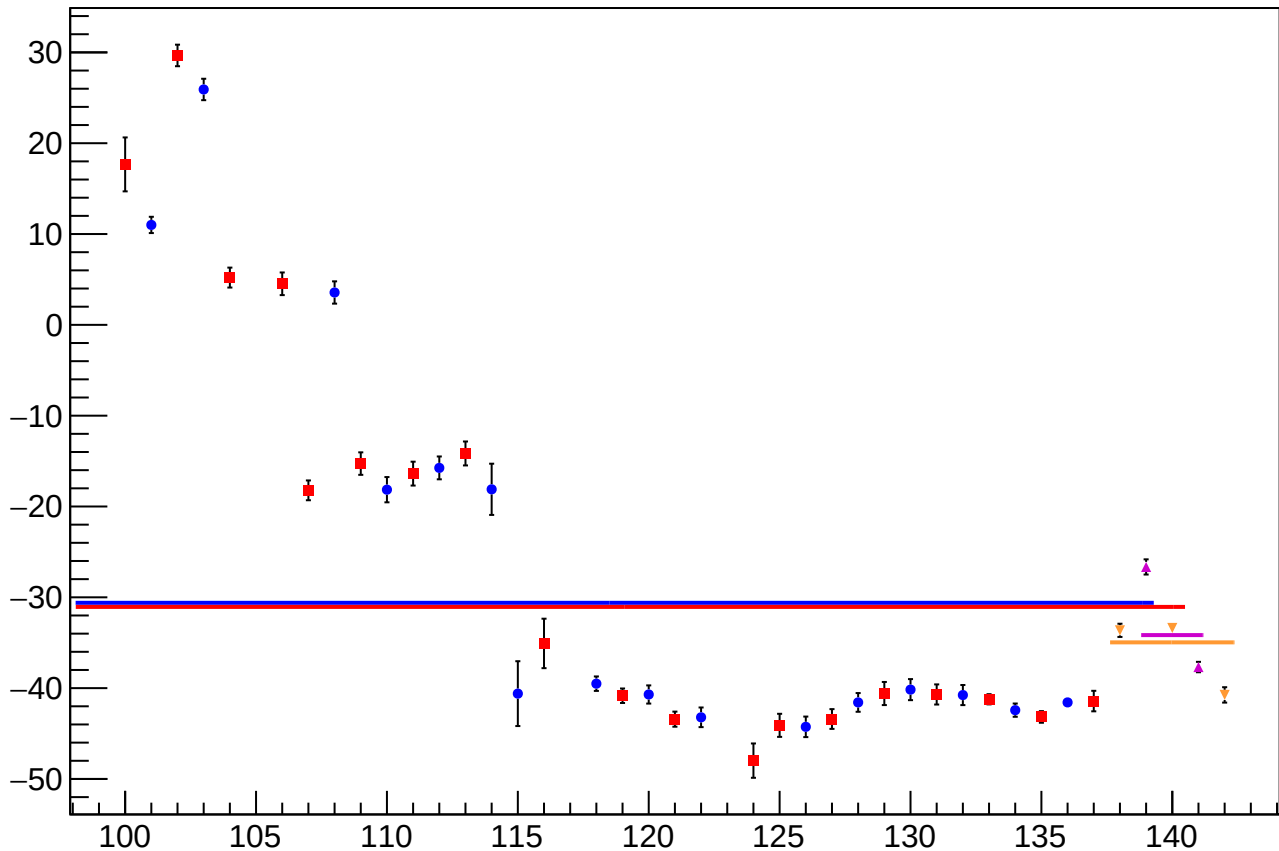
Right: -4.881 ± 0.160 $\chi^2/\text{NDF}: 243.4/34$

In: -5.399 ± 0.199 $\chi^2/\text{NDF}: 77.1/17$

Out: -5.177 ± 0.193 $\chi^2/\text{NDF}: 217.9/21$

All: -5.284 ± 0.138 $\chi^2/\text{NDF}: 295.7/39$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.605 ± 0.249 χ^2/NDF : 6938.0/15

Left Out: -34.961 ± 0.384 χ^2/NDF : 58.8/2

Right Out: -31.056 ± 0.238 χ^2/NDF : 6976.4/18

Left In: -34.160 ± 0.473 χ^2/NDF : 118.2/1

Left: -34.642 ± 0.298 χ^2/NDF : 178.7/4

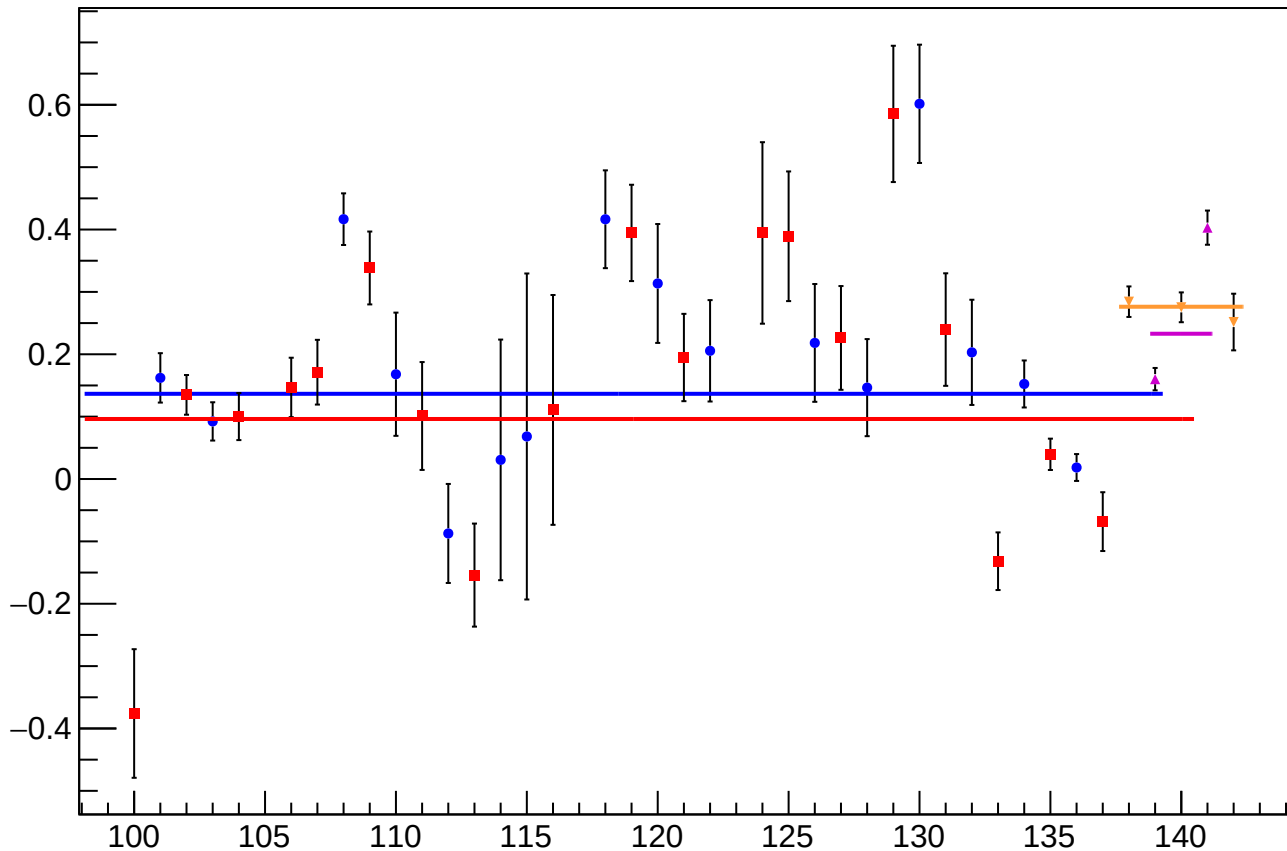
Right: -30.841 ± 0.172 χ^2/NDF : 13916.2/34

In: -31.379 ± 0.221 χ^2/NDF : 7100.5/17

Out: -32.138 ± 0.202 χ^2/NDF : 7110.0/21

All: -31.792 ± 0.149 χ^2/NDF : 14216.9/39

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.137 $\pm$ 0.013 χ^2 /NDF: 129.2/15

Left Out: 0.276 $\pm$ 0.016 χ^2 /NDF:0.4/2

Right Out: 0.096 $\pm$ 0.012 χ^2 /NDF: 147.7/18

Left In: 0.233 $\pm$ 0.015 χ^2 /NDF:55.0/1

Left: 0.253 $\pm$ 0.011 χ^2 /NDF: 59.3/4

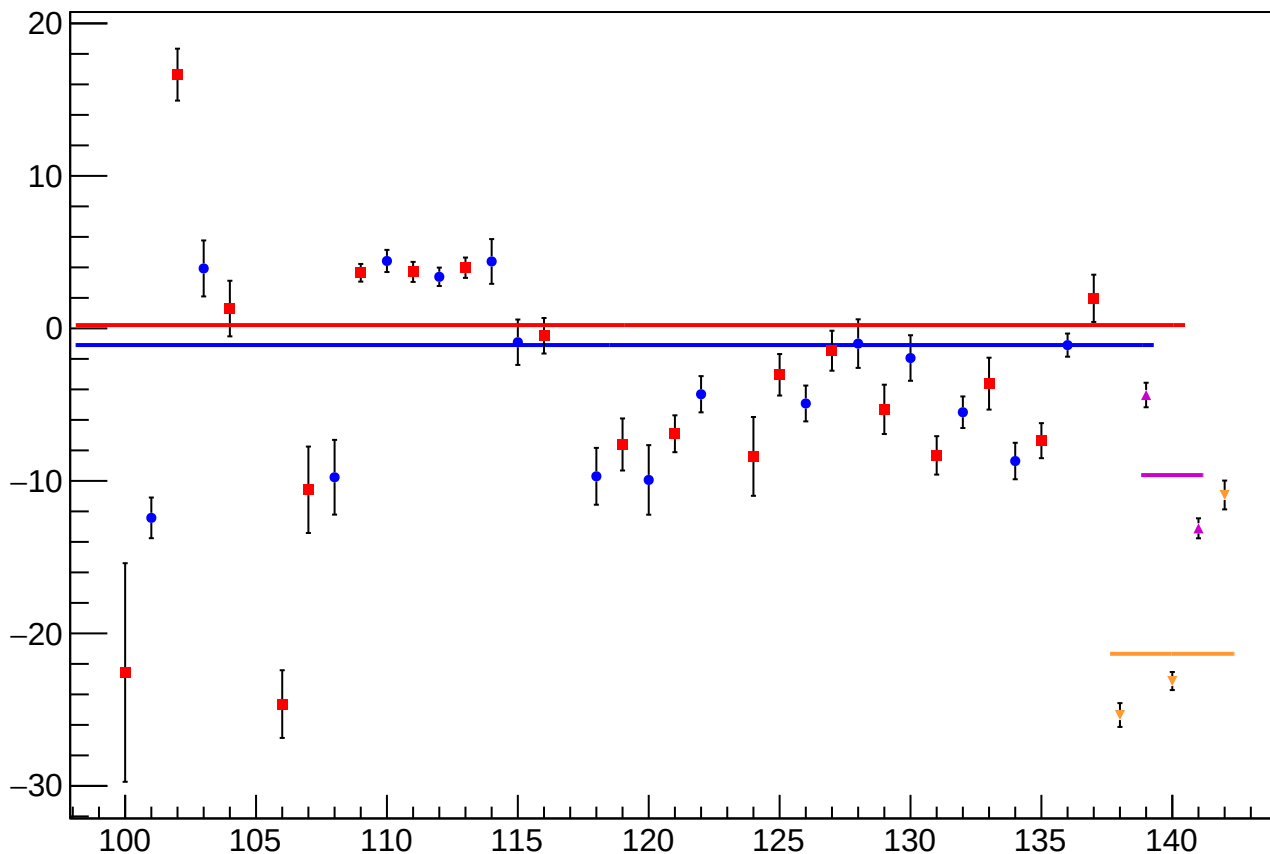
Right: 0.116 $\pm$ 0.009 χ^2 /NDF: 282.3/34

In: 0.176 $\pm$ 0.010 χ^2 /NDF:208.6/17

Out: 0.163 $\pm$ 0.010 χ^2 /NDF:227.4/21

All: 0.170 $\pm$ 0.007 χ^2 /NDF: 436.9/39

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.092 ± 0.281 χ^2/NDF : 332.0/15

Left Out: -21.338 ± 0.422 χ^2/NDF : 157.1/2

Right Out: 0.216 ± 0.266 χ^2/NDF : 520.8/18

Left In: -9.619 ± 0.508 χ^2/NDF : 71.0/1

Left: -16.553 ± 0.325 χ^2/NDF : 542.8/4

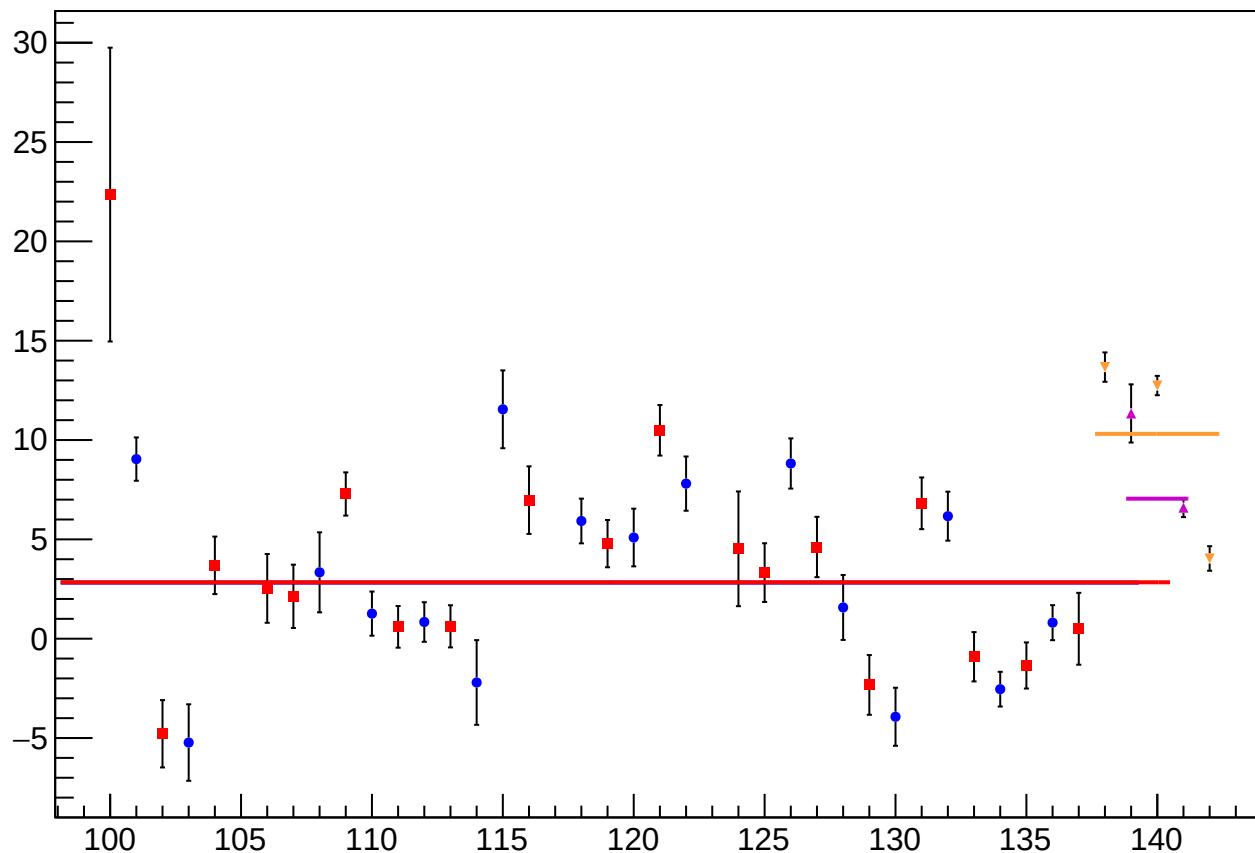
Right: -0.404 ± 0.193 χ^2/NDF : 864.2/34

In: -3.085 ± 0.246 χ^2/NDF : 618.8/17

Out: -5.917 ± 0.225 χ^2/NDF : 2543.6/21

All: -4.624 ± 0.166 χ^2/NDF : 3234.7/39

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.823 ± 0.313 χ^2/NDF : 199.6/15

Left Out: 10.311 ± 0.340 χ^2/NDF : 148.6/2

Right Out: 2.840 ± 0.322 χ^2/NDF : 145.0/18

Left In: 7.048 ± 0.452 χ^2/NDF : 9.5/1

Left: 9.135 ± 0.272 χ^2/NDF : 191.4/4

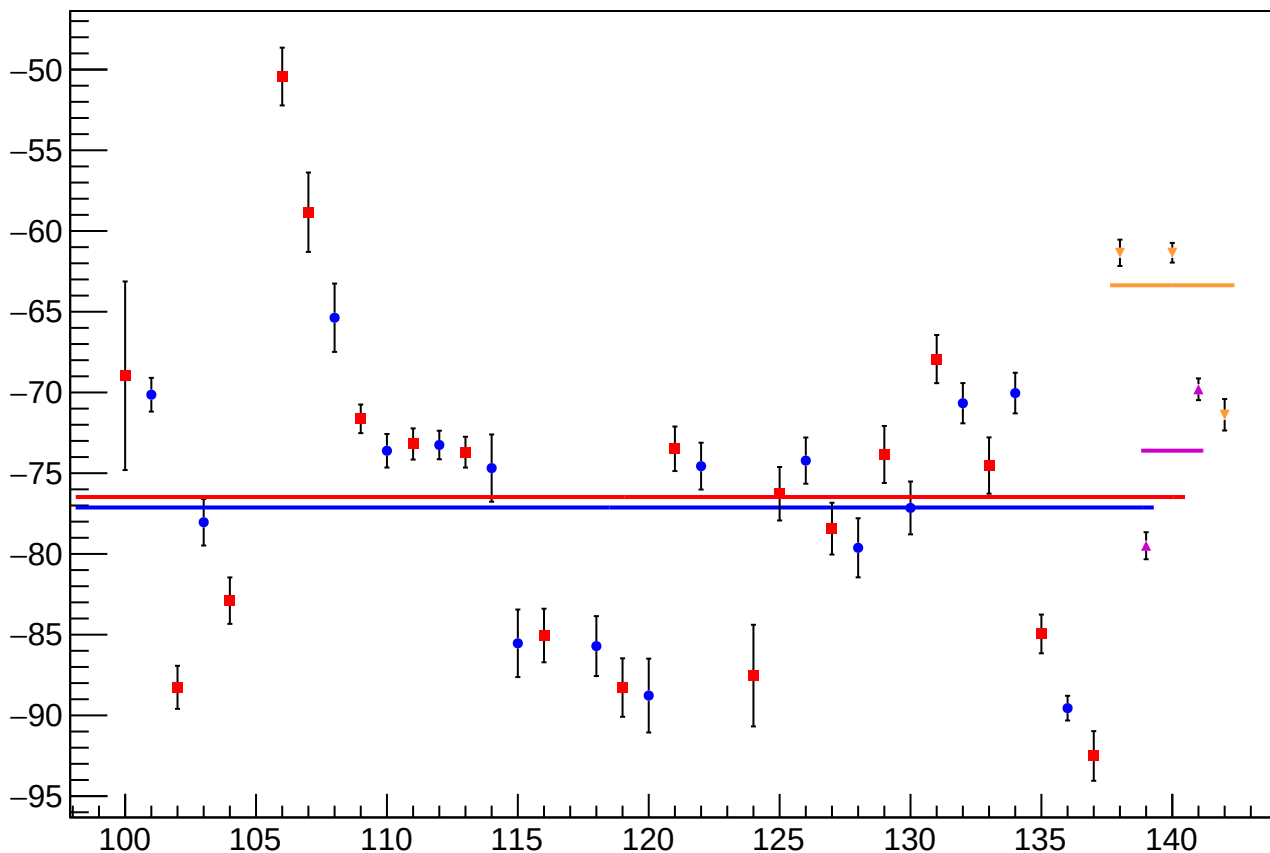
Right: 2.831 ± 0.225 χ^2/NDF : 344.5/34

In: 4.193 ± 0.258 χ^2/NDF : 268.0/17

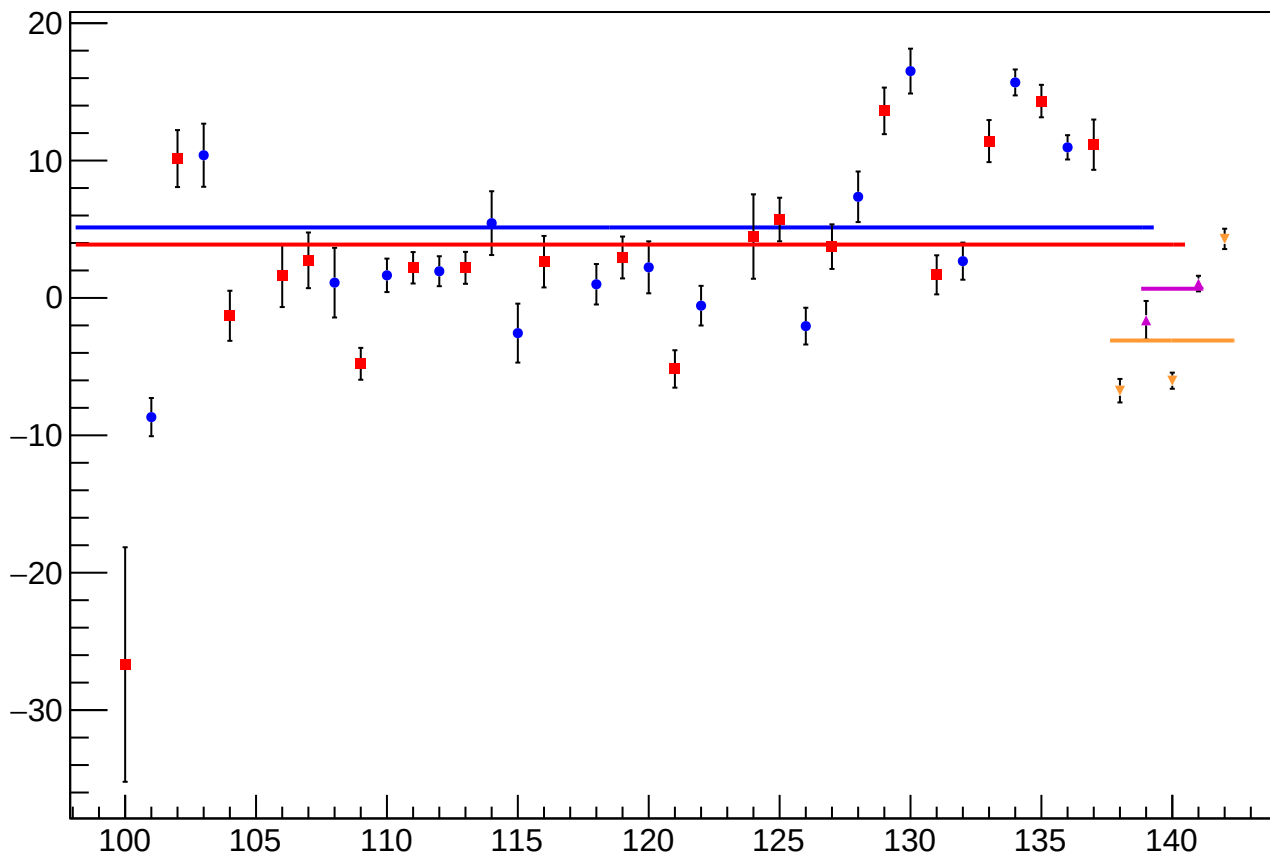
Out: 6.380 ± 0.234 χ^2/NDF : 548.2/21

All: 5.393 ± 0.173 χ^2/NDF : 855.7/39

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.132 ± 0.350 χ^2/NDF : 412.3/15

Left Out: -3.098 ± 0.405 χ^2/NDF : 143.0/2

Right Out: 3.885 ± 0.361 χ^2/NDF : 291.5/18

Left In: 0.670 ± 0.526 χ^2/NDF : 3.1/1

Left: -1.697 ± 0.321 χ^2/NDF : 178.3/4

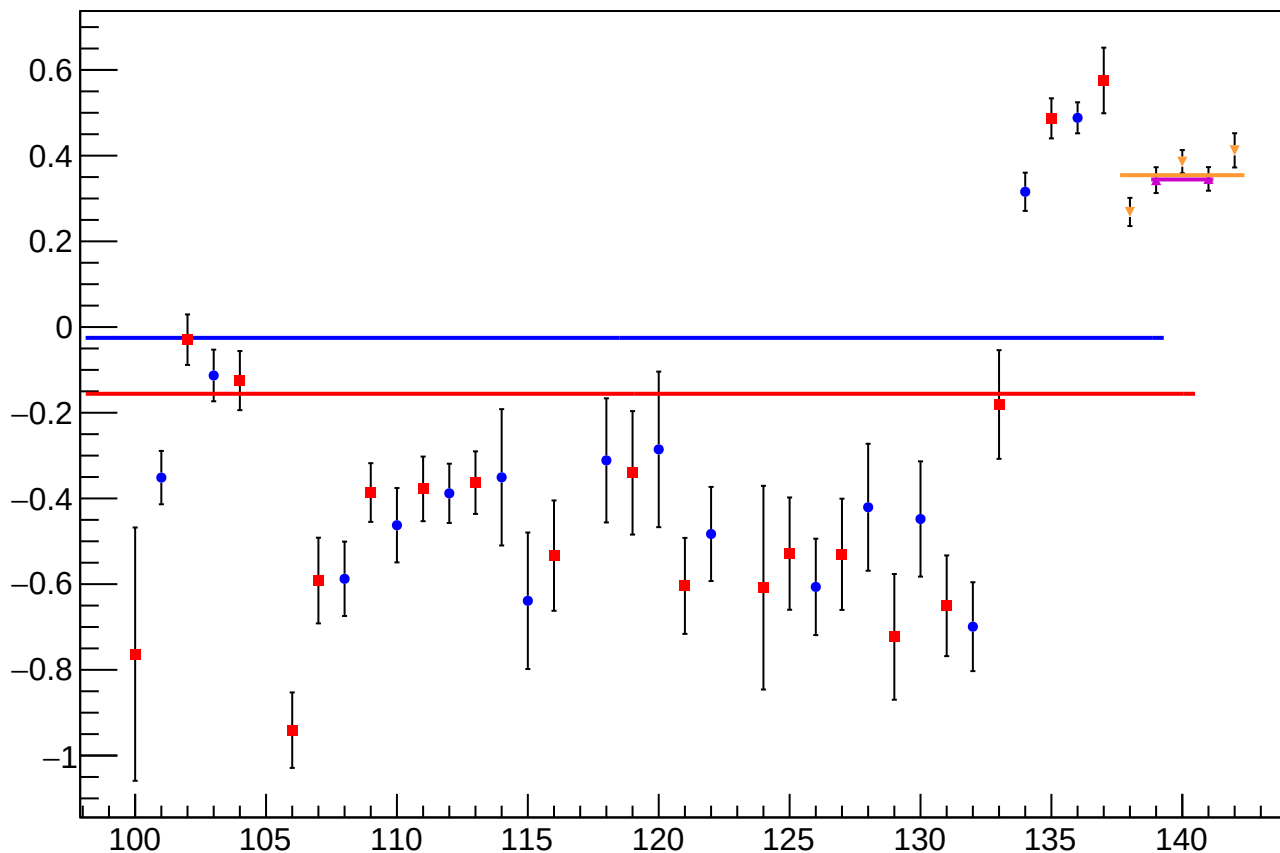
Right: 4.529 ± 0.251 χ^2/NDF : 710.0/34

In: 3.765 ± 0.291 χ^2/NDF : 465.3/17

Out: 0.788 ± 0.270 χ^2/NDF : 599.9/21

All: 2.162 ± 0.198 χ^2/NDF : 1121.5/39

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.025 ± 0.019 χ^2/NDF : 512.5/15

Left Out: 0.354 ± 0.019 χ^2/NDF : 10.3/2

Right Out: -0.156 ± 0.020 χ^2/NDF : 494.9/18

Left In: 0.344 ± 0.020 χ^2/NDF : 0.0/1

Left: 0.350 ± 0.014 χ^2/NDF : 10.4/4

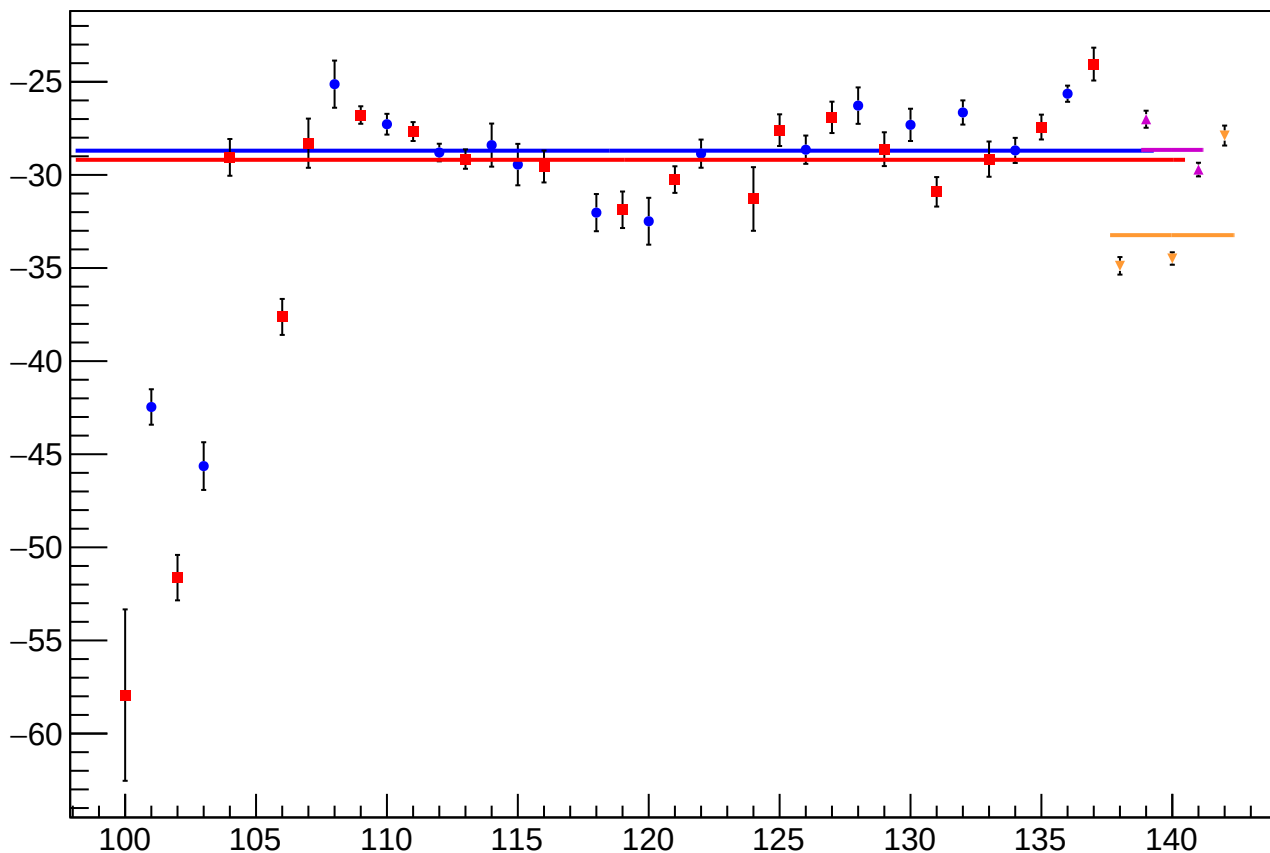
Right: -0.086 ± 0.014 χ^2/NDF : 1029.5/34

In: 0.147 ± 0.014 χ^2/NDF : 689.5/17

Out: 0.121 ± 0.014 χ^2/NDF : 851.3/21

All: 0.134 ± 0.010 χ^2/NDF : 1542.5/39

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -28.698 ± 0.186 χ^2/NDF : 487.3/15

Left Out: -33.234 ± 0.243 χ^2/NDF : 125.8/2

Right Out: -29.189 ± 0.181 χ^2/NDF : 557.3/18

Left In: -28.656 ± 0.286 χ^2/NDF : 21.3/1

Left: -31.314 ± 0.185 χ^2/NDF : 295.7/4

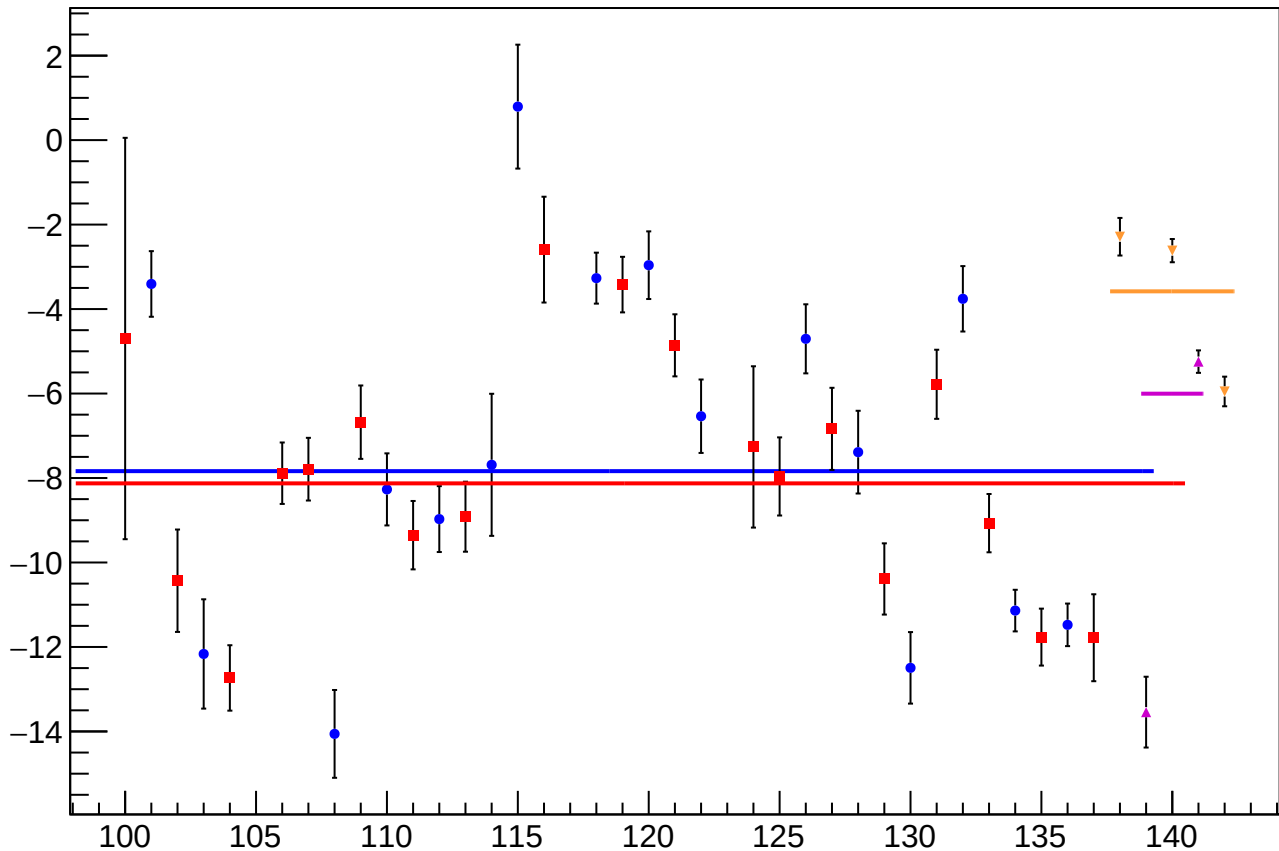
Right: -28.950 ± 0.130 χ^2/NDF : 1048.2/34

In: -28.686 ± 0.156 χ^2/NDF : 508.6/17

Out: -30.633 ± 0.145 χ^2/NDF : 861.0/21

All: -29.727 ± 0.106 χ^2/NDF : 1453.0/39

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.837 ± 0.195 χ^2/NDF : 383.2/15

Left Out: -3.580 ± 0.195 χ^2/NDF : 66.4/2

Right Out: -8.127 ± 0.197 χ^2/NDF : 197.3/18

Left In: -6.004 ± 0.254 χ^2/NDF : 89.1/1

Left: -4.479 ± 0.154 χ^2/NDF : 212.9/4

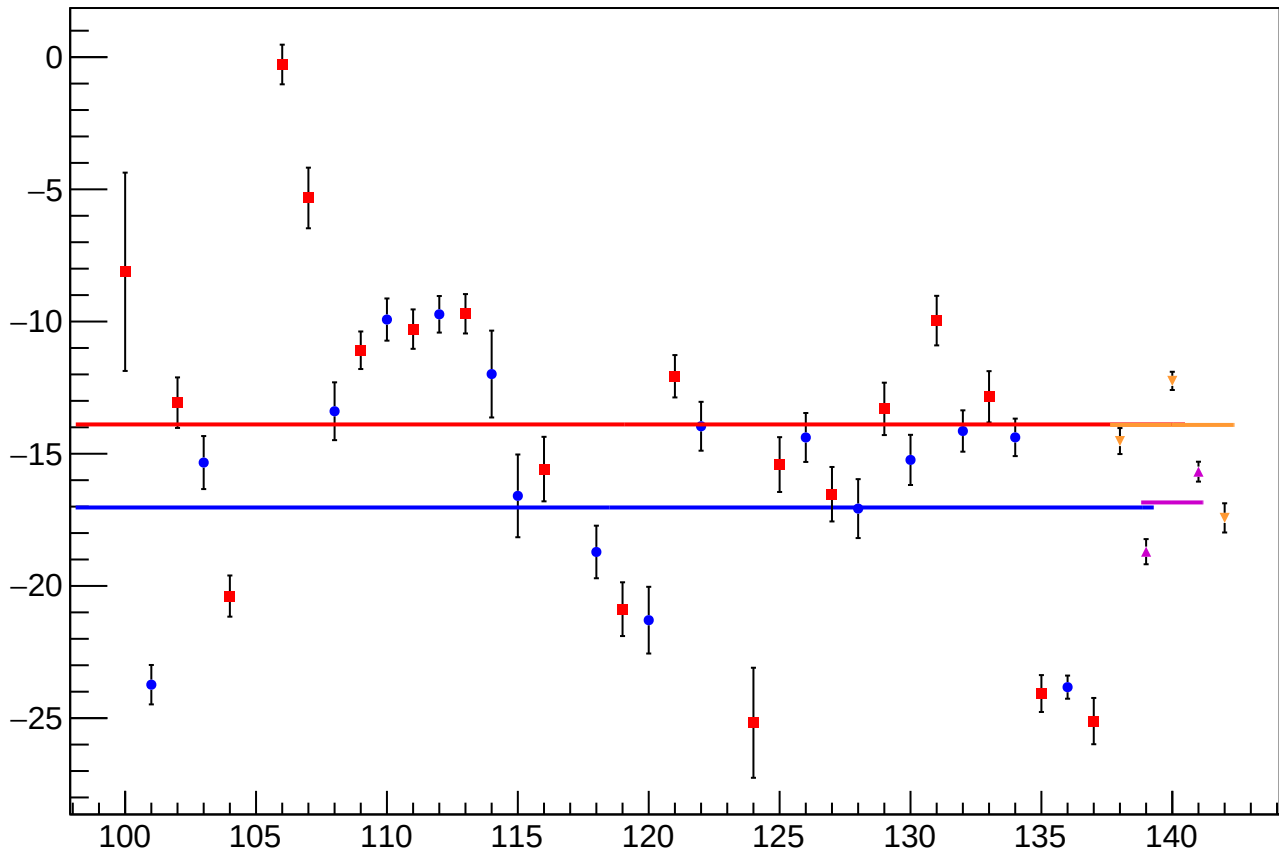
Right: -7.981 ± 0.138 χ^2/NDF : 581.6/34

In: -7.156 ± 0.155 χ^2/NDF : 505.2/17

Out: -5.830 ± 0.138 χ^2/NDF : 533.7/21

All: -6.420 ± 0.103 χ^2/NDF : 1079.7/39

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -17.033 ± 0.209 χ^2/NDF : 601.2/15

Left Out: -13.910 ± 0.251 χ^2/NDF : 65.4/2

Right Out: -13.892 ± 0.209 χ^2/NDF : 1017.4/18

Left In: -16.842 ± 0.295 χ^2/NDF : 24.9/1

Left: -15.142 ± 0.191 χ^2/NDF : 147.5/4

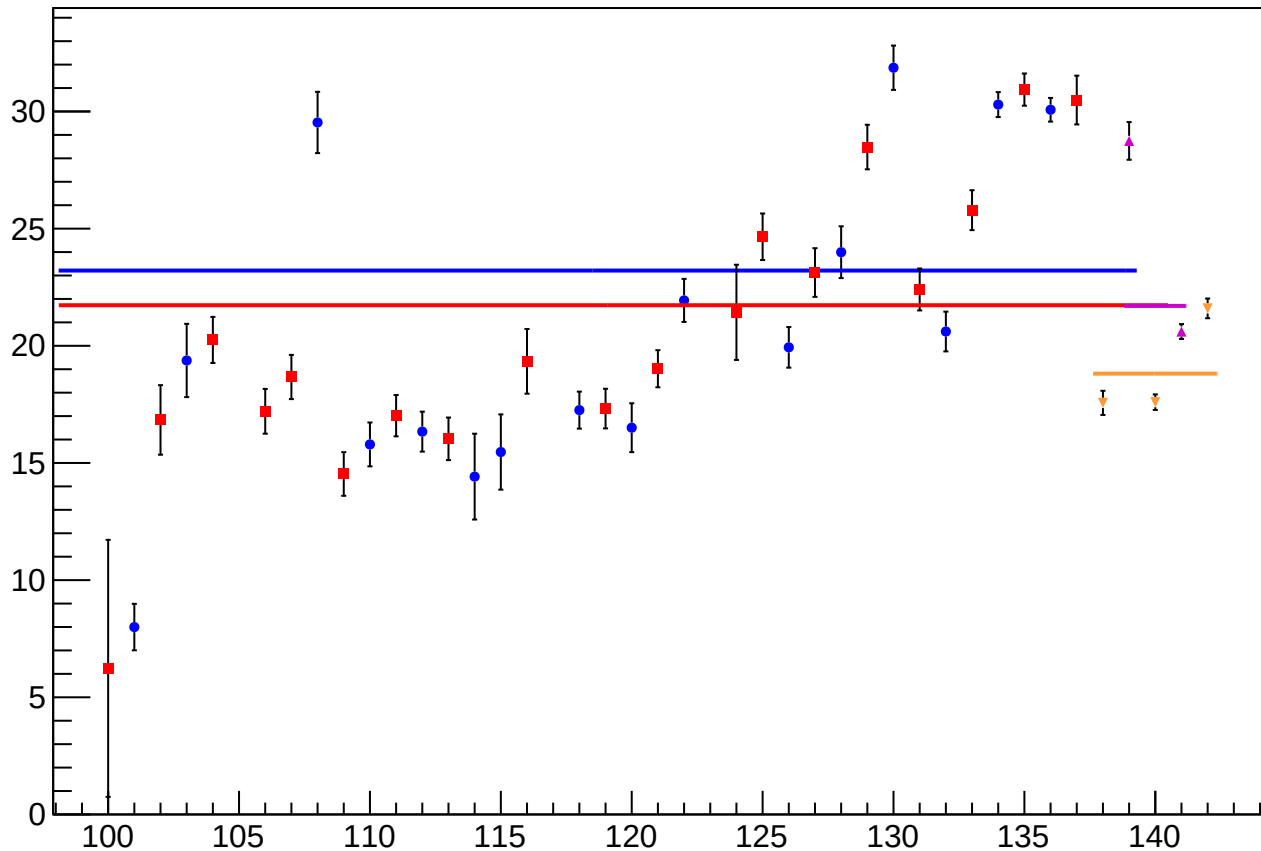
Right: -15.462 ± 0.148 χ^2/NDF : 1731.1/34

In: -16.969 ± 0.171 χ^2/NDF : 626.3/17

Out: -13.899 ± 0.161 χ^2/NDF : 1082.9/21

All: -15.342 ± 0.117 χ^2/NDF : 1880.4/39

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 23.211 $\pm$ 0.218 χ^2 /NDF: 1008.2/15

Left Out: 18.812 $\pm$ 0.232 χ^2 /NDF: 63.3/2

Right Out: 21.731 $\pm$ 0.224 χ^2 /NDF: 558.2/18

Left In: 21.704 $\pm$ 0.295 χ^2 /NDF: 88.4/1

Left: 19.918 $\pm$ 0.183 χ^2 /NDF: 210.9/4

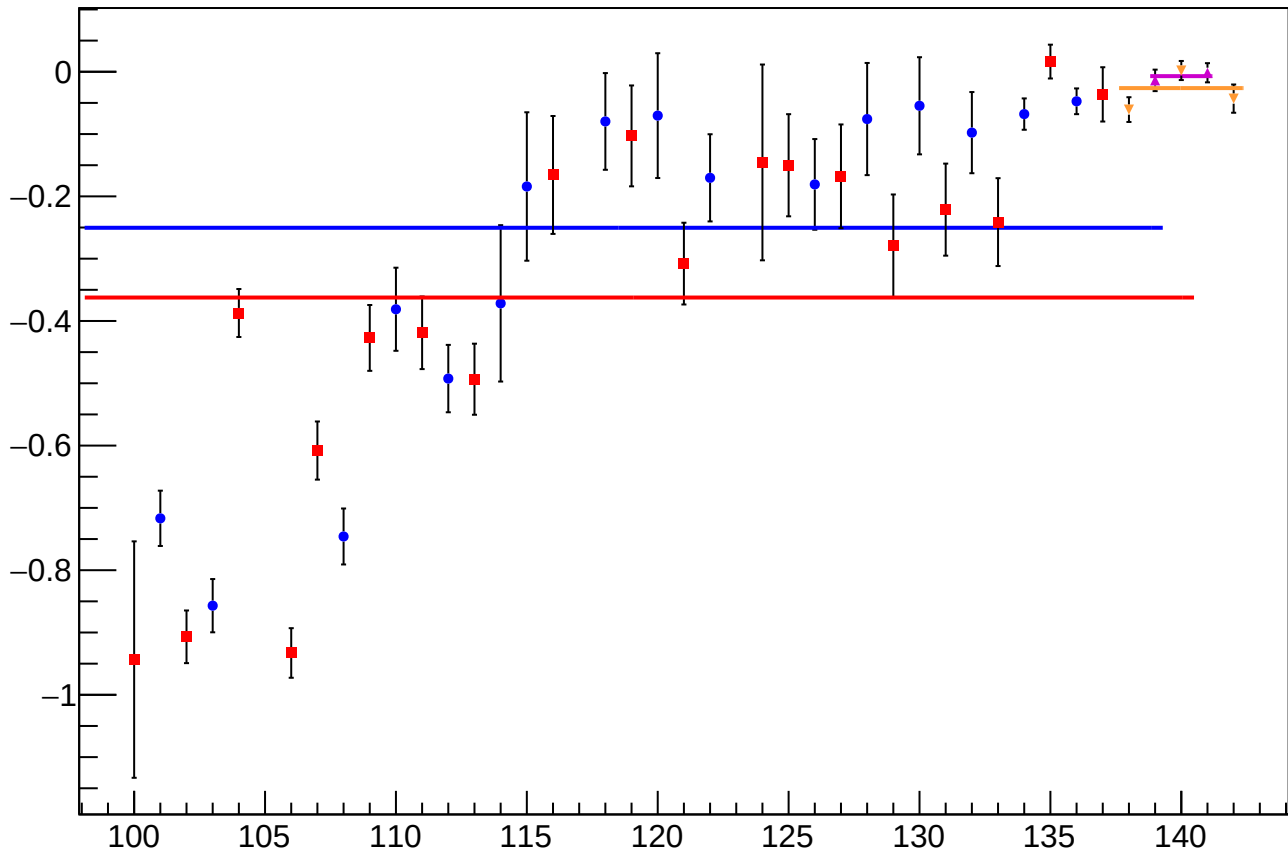
Right: 22.492 $\pm$ 0.156 χ^2 /NDF: 1588.8/34

In: 22.679 $\pm$ 0.175 χ^2 /NDF: 1113.5/17

Out: 20.323 $\pm$ 0.161 χ^2 /NDF: 703.2/21

All: 21.403 $\pm$ 0.119 χ^2 /NDF: 1914.4/39

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.250 ± 0.012 χ^2/NDF : 633.5/15

Left Out: -0.026 ± 0.011 χ^2/NDF : 7.0/2

Right Out: -0.362 ± 0.012 χ^2/NDF : 704.3/18

Left In: -0.007 ± 0.011 χ^2/NDF : 0.3/1

Left: -0.017 ± 0.008 χ^2/NDF : 8.7/4

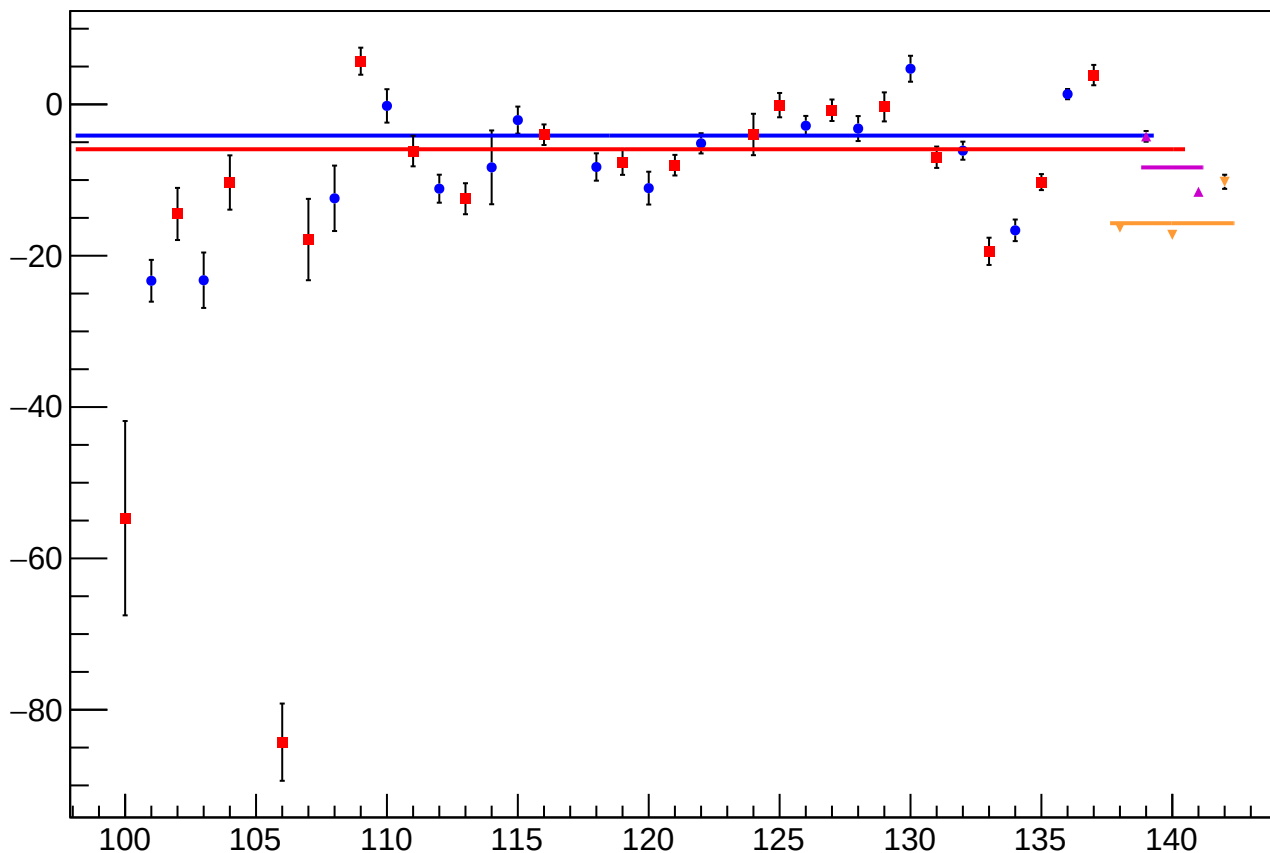
Right: -0.303 ± 0.008 χ^2/NDF : 1381.3/34

In: -0.127 ± 0.008 χ^2/NDF : 855.0/17

Out: -0.170 ± 0.008 χ^2/NDF : 1134.8/21

All: -0.149 ± 0.006 χ^2/NDF : 2004.0/39

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.124 ± 0.382 χ^2/NDF : 287.9/15

Left Out: -15.705 ± 0.389 χ^2/NDF : 42.8/2

Right Out: -5.930 ± 0.408 χ^2/NDF : 482.6/18

Left In: -8.330 ± 0.470 χ^2/NDF : 59.9/1

Left: -12.707 ± 0.299 χ^2/NDF : 249.0/4

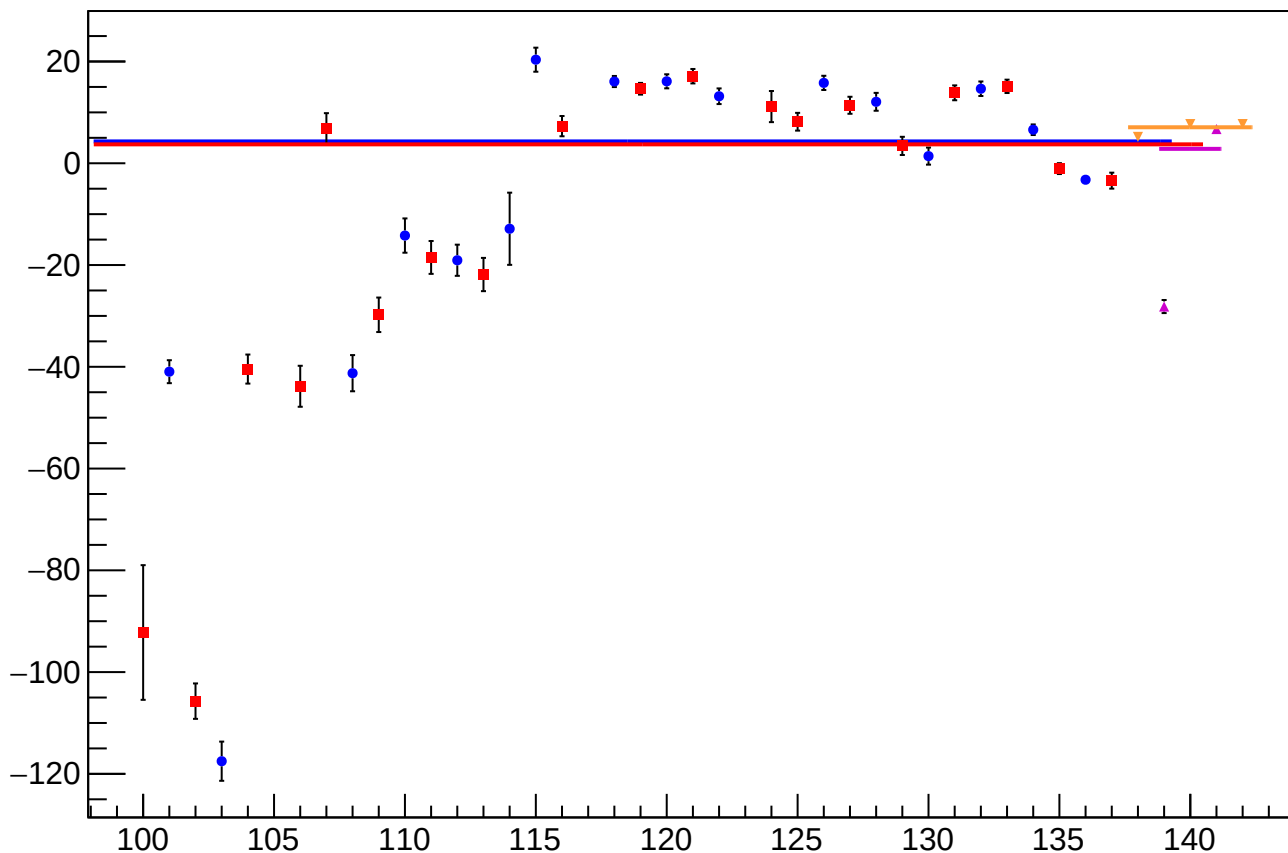
Right: -4.968 ± 0.279 χ^2/NDF : 781.0/34

In: -5.797 ± 0.296 χ^2/NDF : 396.1/17

Out: -11.051 ± 0.281 χ^2/NDF : 826.5/21

All: -8.559 ± 0.204 χ^2/NDF : 1388.0/39

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.292 ± 0.385 χ^2/NDF : 2169.1/15

Left Out: 7.074 ± 0.318 χ^2/NDF : 11.7/2

Right Out: 3.717 ± 0.423 χ^2/NDF : 2007.2/18

Left In: 2.831 ± 0.430 χ^2/NDF : 653.8/1

Left: 5.573 ± 0.256 χ^2/NDF : 728.5/4

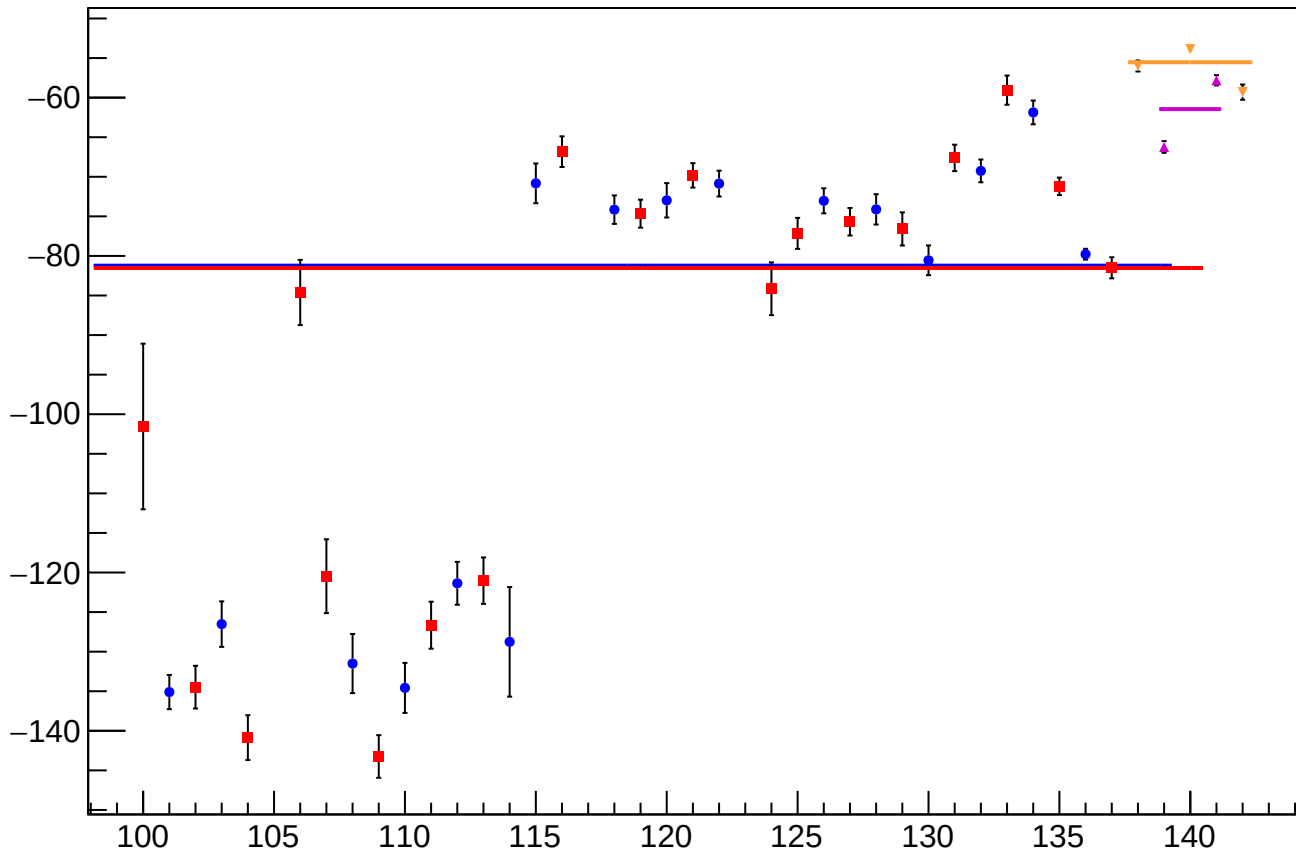
Right: 4.031 ± 0.285 χ^2/NDF : 4177.4/34

In: 3.641 ± 0.287 χ^2/NDF : 2829.3/17

Out: 5.861 ± 0.254 χ^2/NDF : 2059.3/21

All: 4.885 ± 0.190 χ^2/NDF : 4922.1/39

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.231 ± 0.417 χ^2/NDF : 1971.1/15

Left Out: -55.529 ± 0.402 χ^2/NDF : 24.2/2

Right Out: -81.523 ± 0.462 χ^2/NDF : 2293.2/18

Left In: -61.448 ± 0.485 χ^2/NDF : 74.1/1

Left: -57.938 ± 0.309 χ^2/NDF : 186.5/4

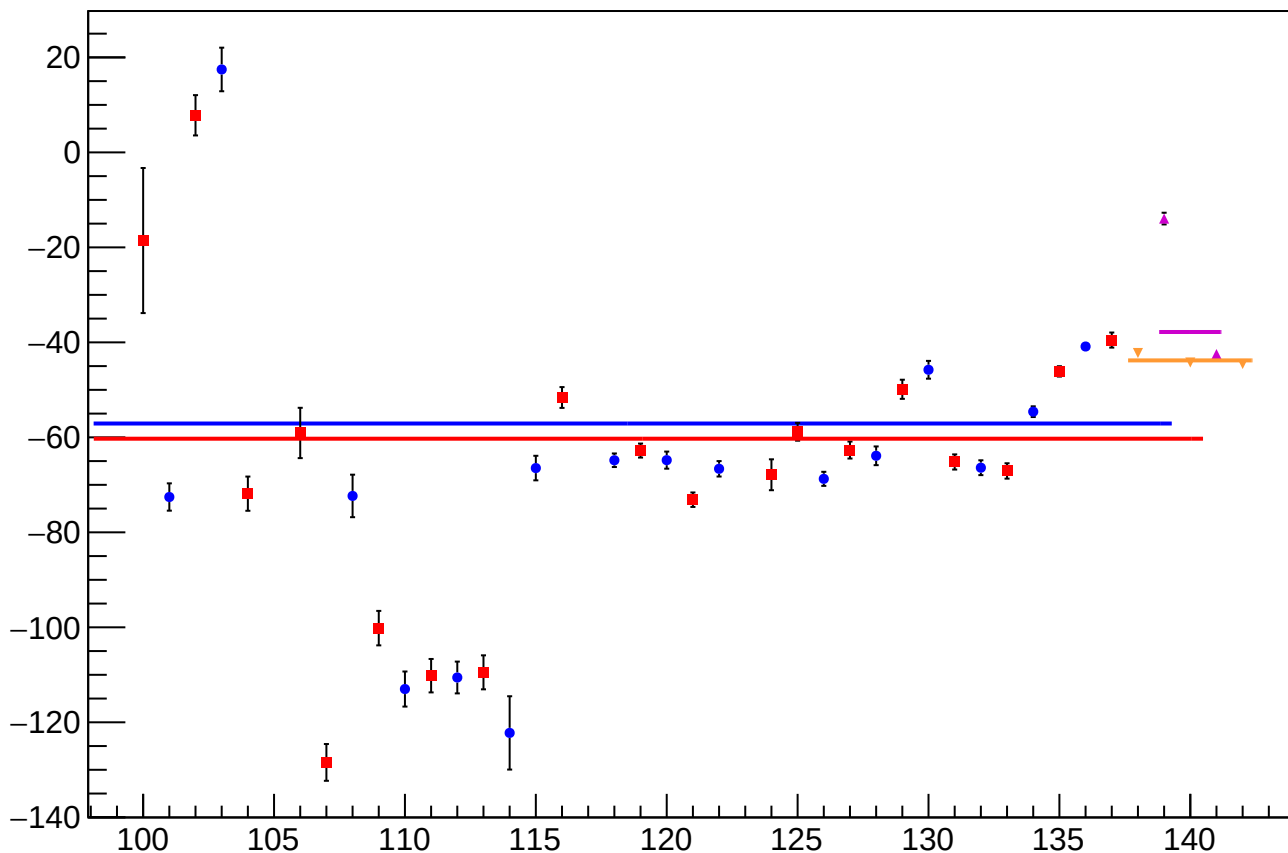
Right: -81.362 ± 0.309 χ^2/NDF : 4264.5/34

In: -72.827 ± 0.316 χ^2/NDF : 3002.1/17

Out: -66.735 ± 0.303 χ^2/NDF : 4121.4/21

All: -69.652 ± 0.219 χ^2/NDF : 7316.9/39

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -57.089±/0.426 χ^2/NDF : 1526.8/15

Left Out: -43.799±/0.378 χ^2/NDF : 6.2/2

Right Out: -60.287±/0.470 χ^2/NDF : 1587.9/18

Left In: -37.818±/0.498 χ^2/NDF : 447.5/1

Left: -41.609±/0.301 χ^2/NDF : 545.2/4

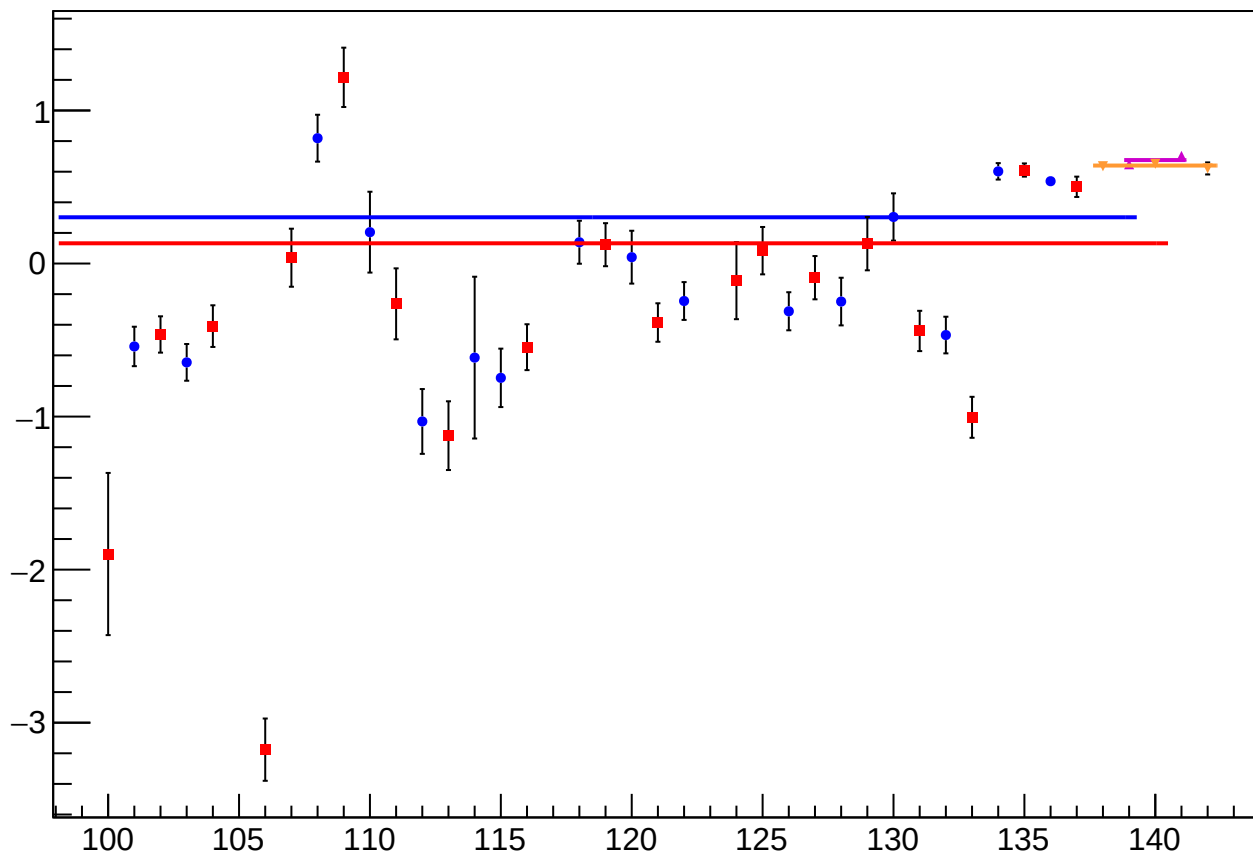
Right: -58.530±/0.316 χ^2/NDF : 3140.1/34

In: -48.947±/0.324 χ^2/NDF : 2839.9/17

Out: -50.282±/0.295 χ^2/NDF : 2340.8/21

All: -49.677±/0.218 χ^2/NDF : 5190.0/39

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.302 ± 0.023 χ^2/NDF : 374.8/15

Left Out: 0.640 ± 0.017 χ^2/NDF : 0.5/2

Right Out: 0.132 ± 0.027 χ^2/NDF : 672.5/18

Left In: 0.676 ± 0.019 χ^2/NDF : 2.1/1

Left: 0.657 ± 0.013 χ^2/NDF : 4.6/4

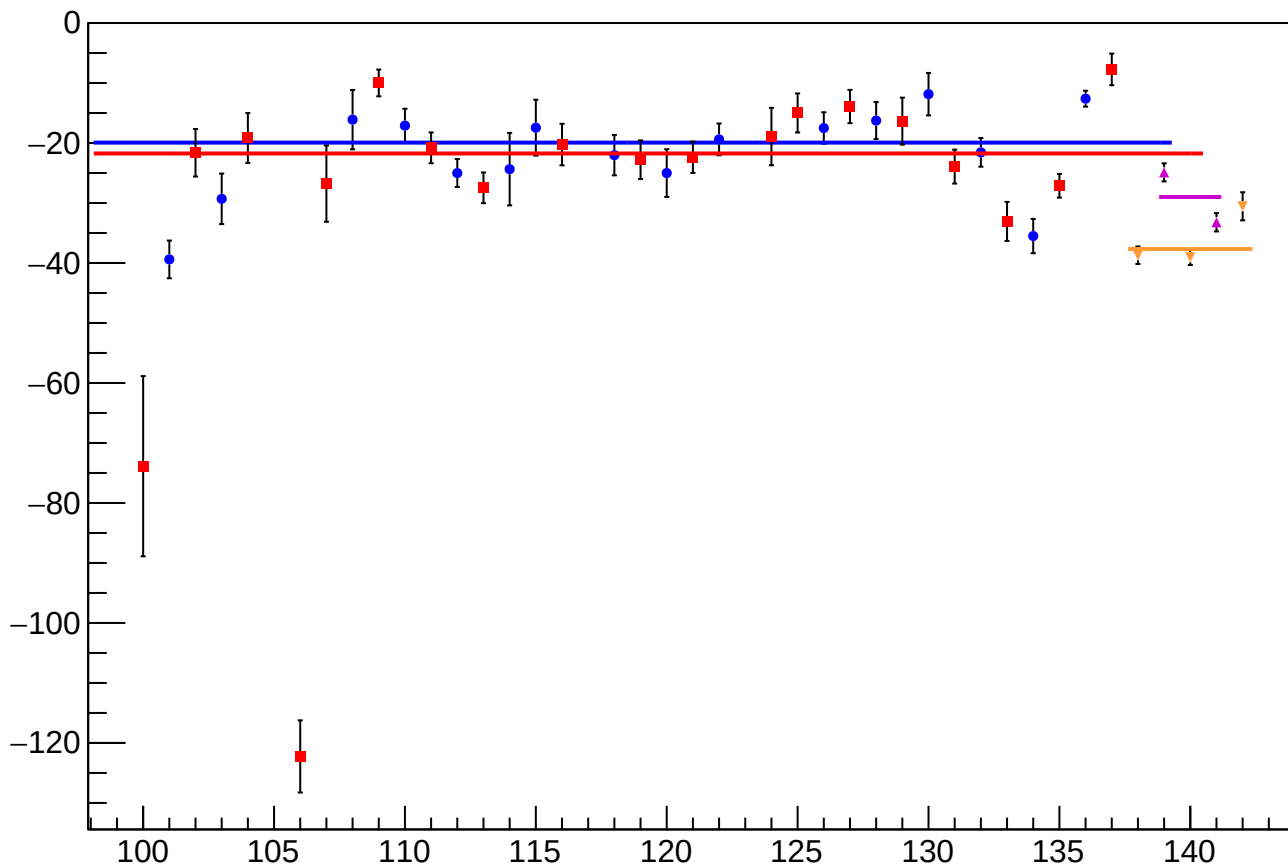
Right: 0.229 ± 0.017 χ^2/NDF : 1070.8/34

In: 0.527 ± 0.014 χ^2/NDF : 536.7/17

Out: 0.492 ± 0.014 χ^2/NDF : 932.9/21

All: 0.509 ± 0.010 χ^2/NDF : 1472.6/39

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.935 ± 0.695 $\chi^2/\text{NDF}: 120.6/15$

Left Out: -37.672 ± 0.895 $\chi^2/\text{NDF}: 10.9/2$

Right Out: -21.746 ± 0.714 $\chi^2/\text{NDF}: 388.3/18$

Left In: -29.001 ± 1.074 $\chi^2/\text{NDF}: 15.0/1$

Left: -34.115 ± 0.688 $\chi^2/\text{NDF}: 64.3/4$

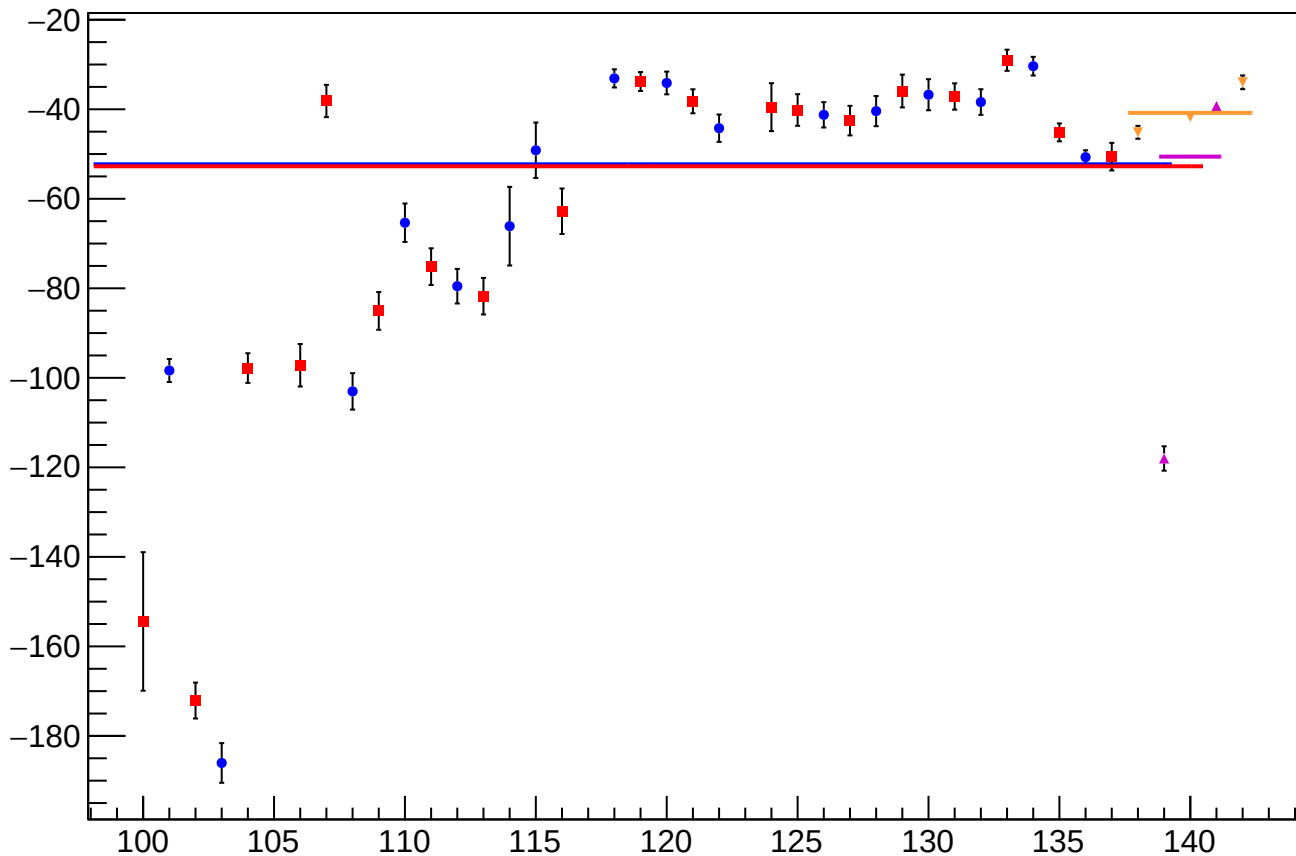
Right: -20.816 ± 0.498 $\chi^2/\text{NDF}: 512.2/34$

In: -22.611 ± 0.583 $\chi^2/\text{NDF}: 185.8/17$

Out: -27.933 ± 0.558 $\chi^2/\text{NDF}: 592.7/21$

All: -25.389 ± 0.403 $\chi^2/\text{NDF}: 822.0/39$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -52.296 ± 0.708 $\chi^2/\text{NDF}: 1778.2/15$

Left Out: -40.802 ± 0.753 $\chi^2/\text{NDF}: 29.6/2$

Right Out: -52.737 ± 0.748 $\chi^2/\text{NDF}: 1662.5/18$

Left In: -50.577 ± 1.033 $\chi^2/\text{NDF}: 714.4/1$

Left: -44.193 ± 0.608 $\chi^2/\text{NDF}: 802.4/4$

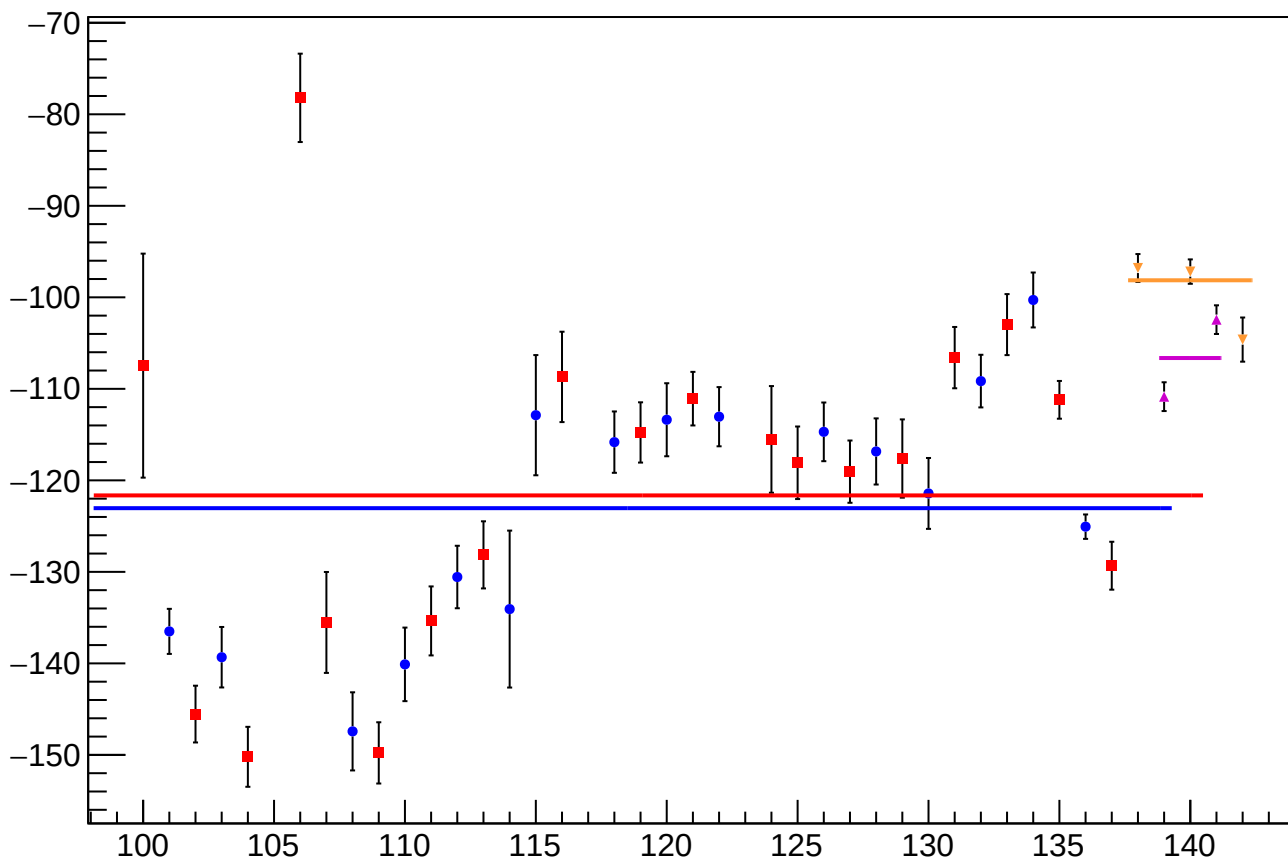
Right: -52.505 ± 0.514 $\chi^2/\text{NDF}: 3440.9/34$

In: -51.747 ± 0.584 $\chi^2/\text{NDF}: 2494.4/17$

Out: -46.805 ± 0.531 $\chi^2/\text{NDF}: 1818.6/21$

All: -49.040 ± 0.393 $\chi^2/\text{NDF}: 4352.2/39$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -123.039 ± 0.750 χ^2/NDF : 226.8/15

Left Out: -98.139 ± 0.926 χ^2/NDF : 8.5/2

Right Out: -121.646 ± 0.801 χ^2/NDF : 424.5/18

Left In: -106.633 ± 1.110 χ^2/NDF : 14.4/1

Left: -101.625 ± 0.711 χ^2/NDF : 57.4/4

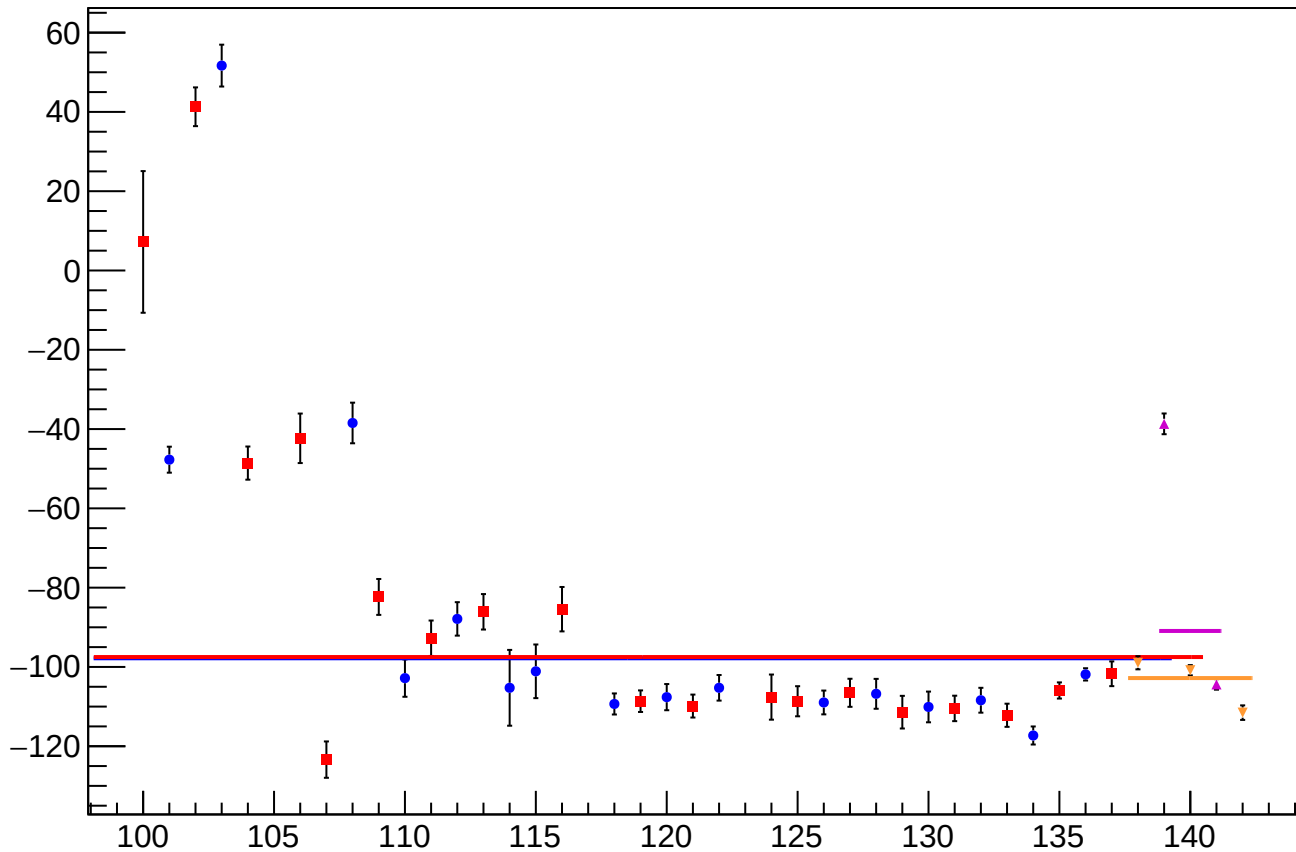
Right: -122.388 ± 0.548 χ^2/NDF : 652.9/34

In: -117.898 ± 0.621 χ^2/NDF : 391.1/17

Out: -111.584 ± 0.606 χ^2/NDF : 801.5/21

All: -114.661 ± 0.434 χ^2/NDF : 1245.5/39

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -97.814 ± 0.793 $\chi^2/\text{NDF}: 1330.8/15$

Left Out: -102.806 ± 0.891 $\chi^2/\text{NDF}: 30.3/2$

Right Out: -97.504 ± 0.843 $\chi^2/\text{NDF}: 1236.4/18$

Left In: -90.923 ± 1.185 $\chi^2/\text{NDF}: 502.0/1$

Left: -98.511 ± 0.712 $\chi^2/\text{NDF}: 596.6/4$

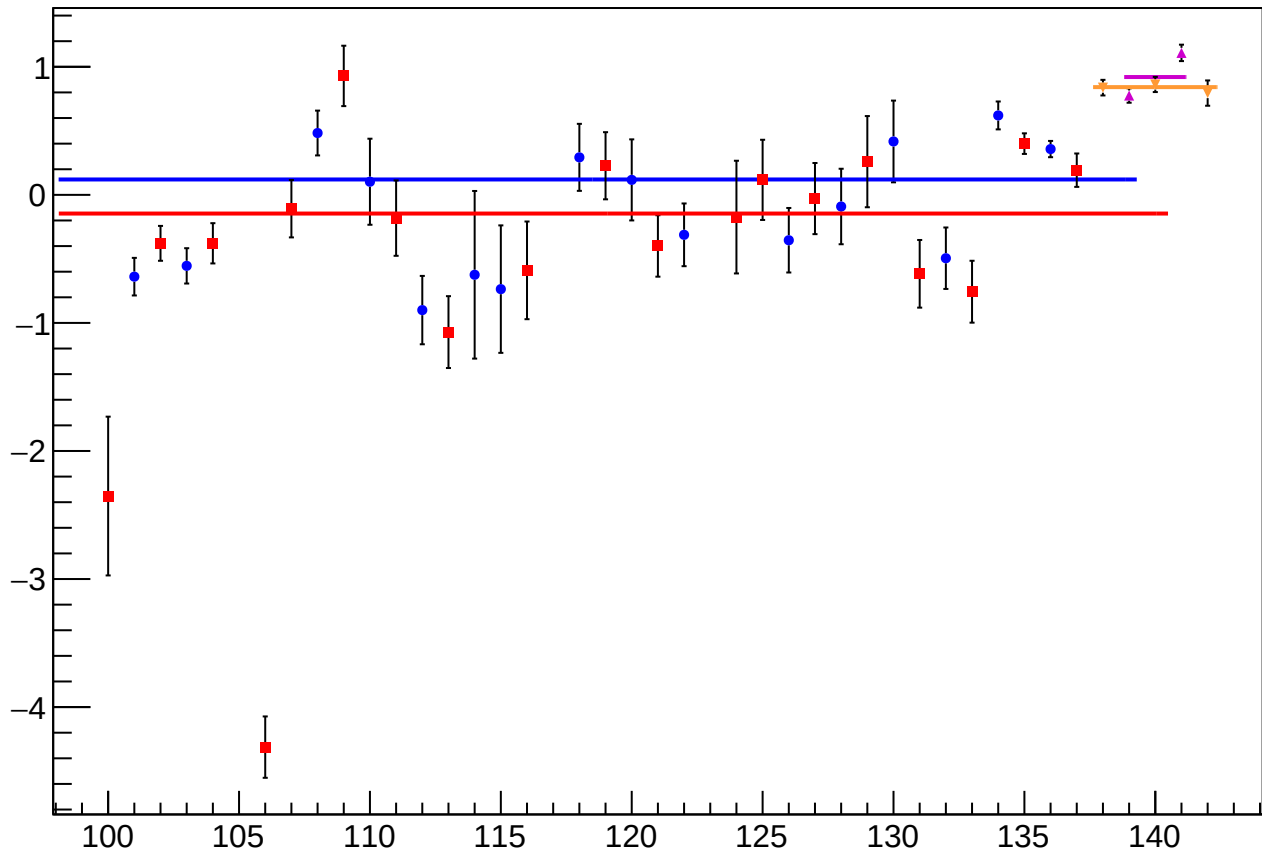
Right: -97.668 ± 0.578 $\chi^2/\text{NDF}: 2567.3/34$

In: -95.681 ± 0.659 $\chi^2/\text{NDF}: 1856.2/17$

Out: -100.007 ± 0.612 $\chi^2/\text{NDF}: 1285.5/21$

All: -98.003 ± 0.449 $\chi^2/\text{NDF}: 3164.8/39$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.120 ± 0.041 χ^2/NDF : 123.9/15

Left Out: 0.841 ± 0.039 χ^2/NDF : 0.3/2

Right Out: -0.146 ± 0.045 χ^2/NDF : 421.0/18

Left In: 0.920 ± 0.042 χ^2/NDF : 15.3/1

Left: 0.878 ± 0.029 χ^2/NDF : 17.5/4

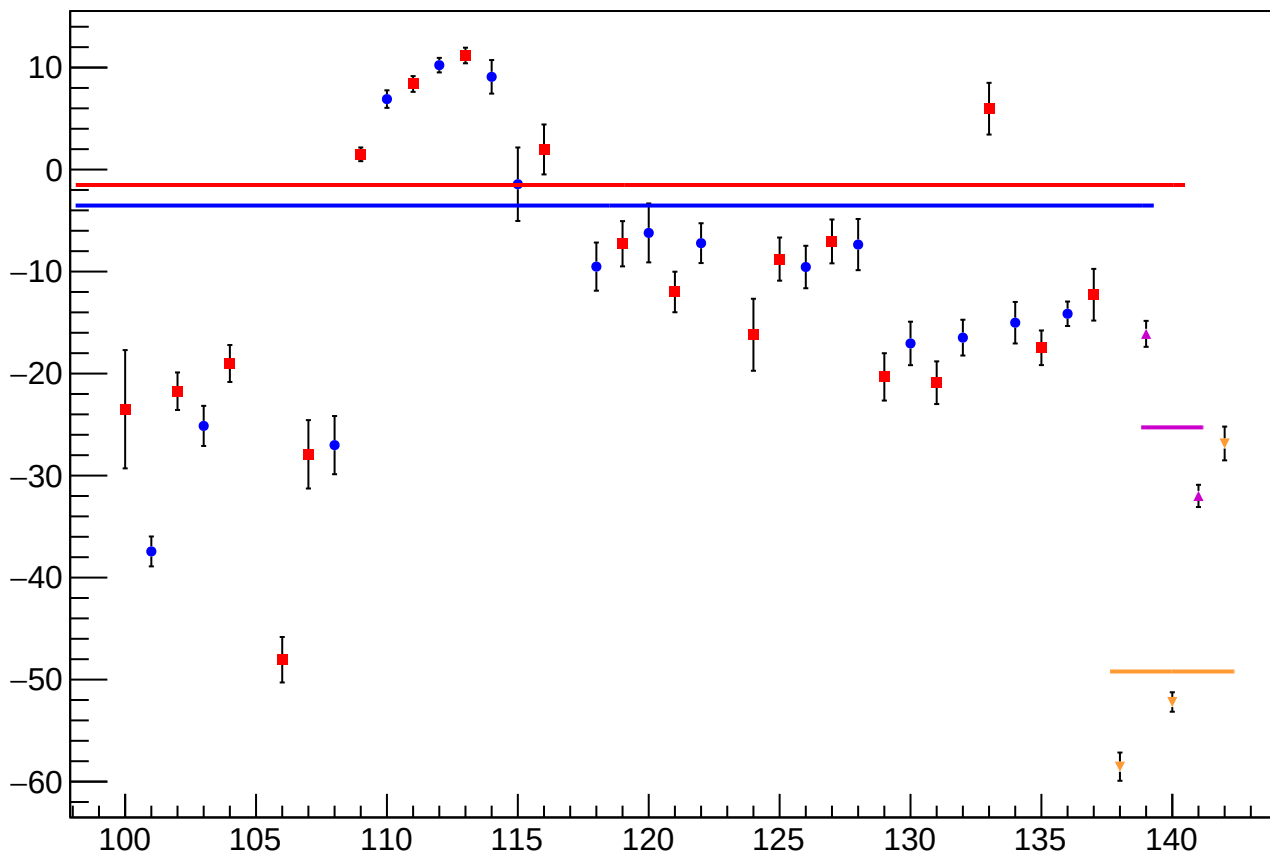
Right: -0.002 ± 0.030 χ^2/NDF : 563.9/34

In: 0.510 ± 0.030 χ^2/NDF : 322.9/17

Out: 0.417 ± 0.029 χ^2/NDF : 697.1/21

All: 0.463 ± 0.021 χ^2/NDF : 1025.0/39

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.527 ± 0.377 χ^2/NDF : 1529.1/15

Left Out: -49.205 ± 0.710 χ^2/NDF : 237.6/2

Right Out: -1.513 ± 0.338 χ^2/NDF : 1524.7/18

Left In: -25.273 ± 0.828 χ^2/NDF : 89.9/1

Left: -39.068 ± 0.539 χ^2/NDF : 809.3/4

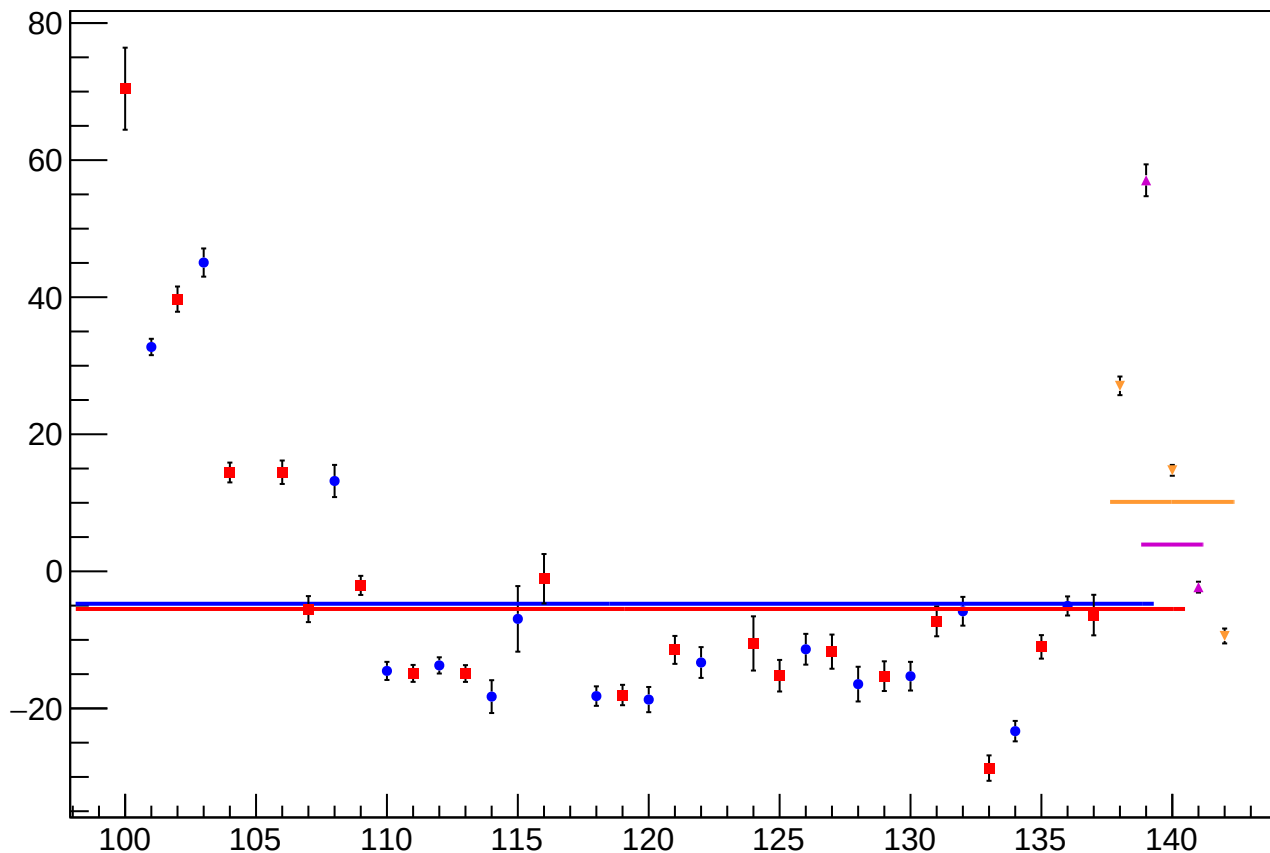
Right: -2.413 ± 0.252 χ^2/NDF : 3069.7/34

In: -7.260 ± 0.343 χ^2/NDF : 2190.8/17

Out: -10.353 ± 0.305 χ^2/NDF : 5442.6/21

All: -8.984 ± 0.228 χ^2/NDF : 7678.8/39

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.729 ± 0.431 χ^2/NDF : 2148.0/15

Left Out: 10.133 ± 0.578 χ^2/NDF : 513.1/2

Right Out: -5.491 ± 0.422 χ^2/NDF : 1508.6/18

Left In: 3.907 ± 0.752 χ^2/NDF : 584.1/1

Left: 7.819 ± 0.458 χ^2/NDF : 1140.2/4

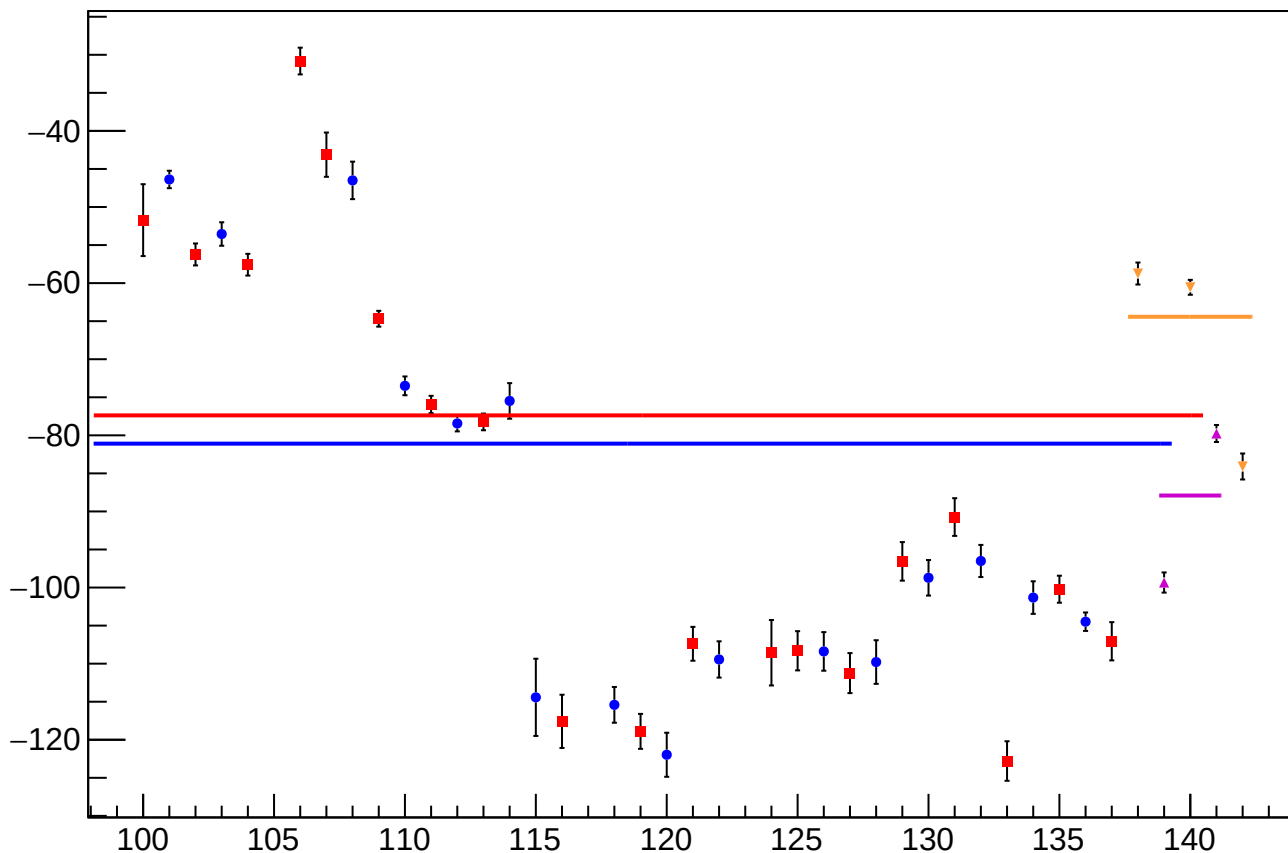
Right: -5.118 ± 0.302 χ^2/NDF : 3658.1/34

In: -2.595 ± 0.374 χ^2/NDF : 2831.4/17

Out: -0.061 ± 0.341 χ^2/NDF : 2497.8/21

All: -1.212 ± 0.252 χ^2/NDF : 5354.2/39

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.091 ± 0.438 $\chi^2/\text{NDF}: 2870.3/15$

Left Out: -64.423 ± 0.733 $\chi^2/\text{NDF}: 163.9/2$

Right Out: -77.379 ± 0.417 $\chi^2/\text{NDF}: 3129.7/18$

Left In: -87.909 ± 0.854 $\chi^2/\text{NDF}: 127.7/1$

Left: -74.380 ± 0.556 $\chi^2/\text{NDF}: 727.0/4$

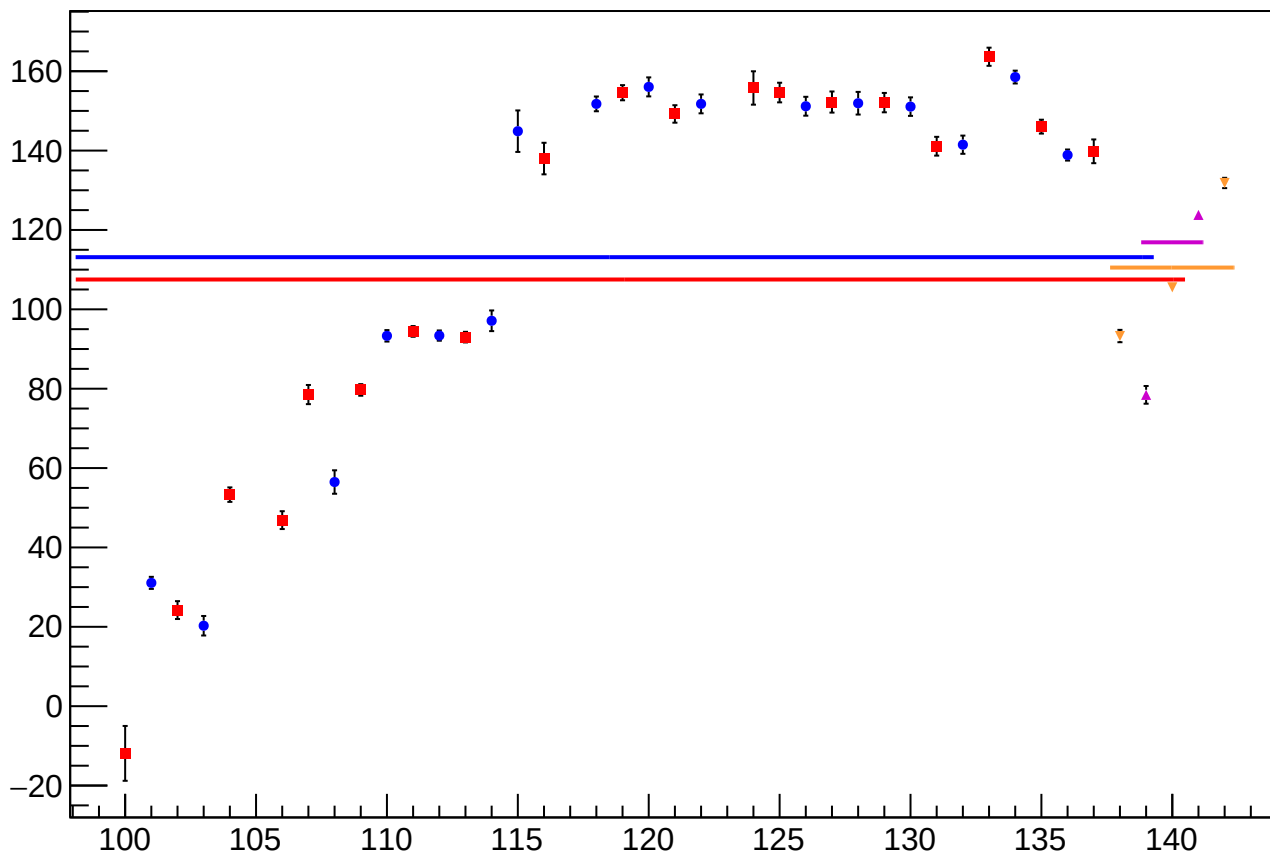
Right: -79.142 ± 0.302 $\chi^2/\text{NDF}: 6037.6/34$

In: -82.513 ± 0.390 $\chi^2/\text{NDF}: 3048.4/17$

Out: -74.212 ± 0.362 $\chi^2/\text{NDF}: 3529.7/21$

All: -78.057 ± 0.265 $\chi^2/\text{NDF}: 6821.2/39$

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 113.143 $\pm$ 0.489 χ^2 /NDF: 8204.1/15

Left Out: 110.524 $\pm$ 0.688 χ^2 /NDF:419.7/2

Right Out: 107.515 $\pm$ 0.479 χ^2 /NDF: 7544.0/18

Left In: 116.886 $\pm$ 0.871 χ^2 /NDF:350.0/1

Left: 112.969 $\pm$ 0.540 χ^2 /NDF: 802.6/4

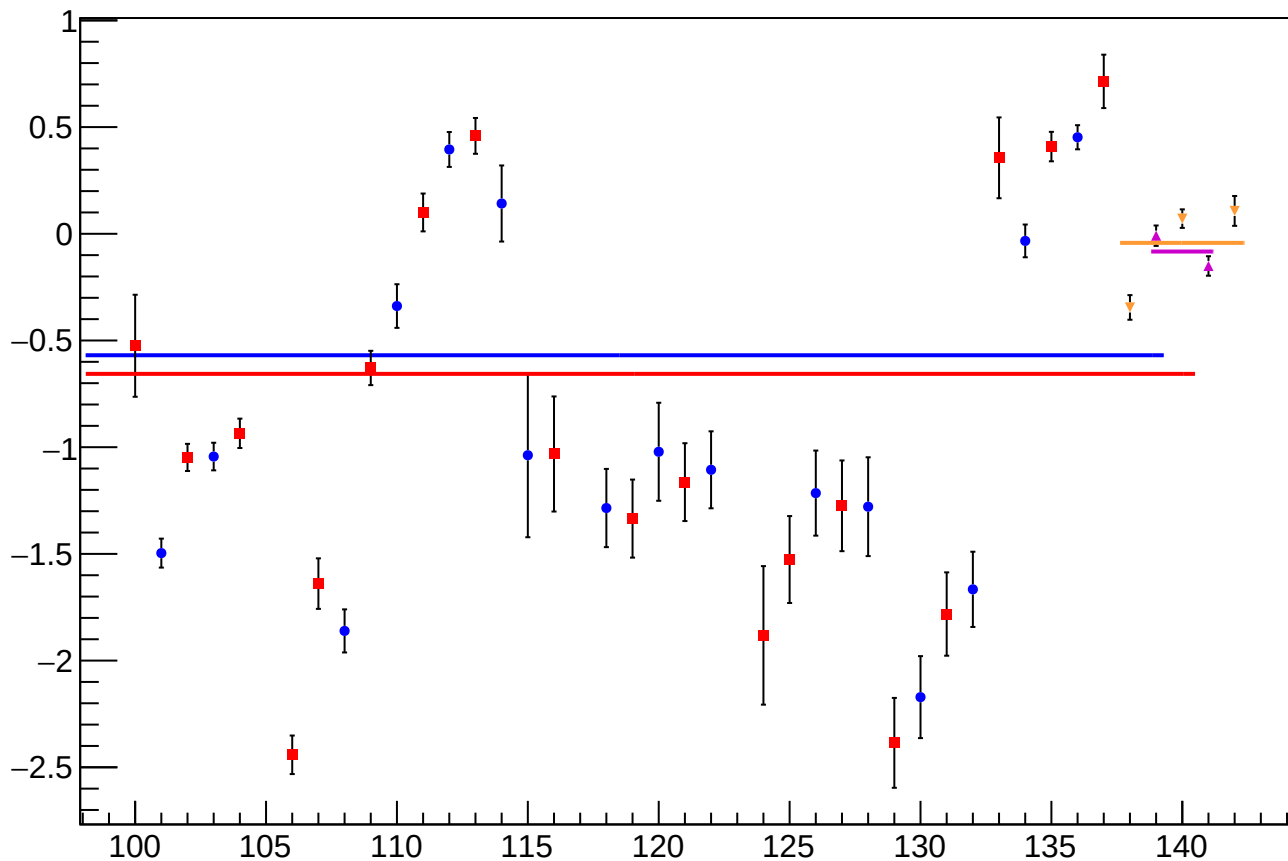
Right: 110.273 $\pm$ 0.342 χ^2 /NDF: 15815.7/34

In: 114.040 $\pm$ 0.426 χ^2 /NDF:8568.2/17

Out: 108.498 $\pm$ 0.393 χ^2 /NDF:7976.6/21

All: 111.046 $\pm$ 0.289 χ^2 /NDF: 16636.0/39

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.569 ± 0.026 χ^2/NDF : 1097.4/15

Left Out: -0.043 ± 0.031 χ^2/NDF : 38.9/2

Right Out: -0.656 ± 0.025 χ^2/NDF : 1315.2/18

Left In: -0.083 ± 0.033 χ^2/NDF : 4.6/1

Left: -0.062 ± 0.023 χ^2/NDF : 44.3/4

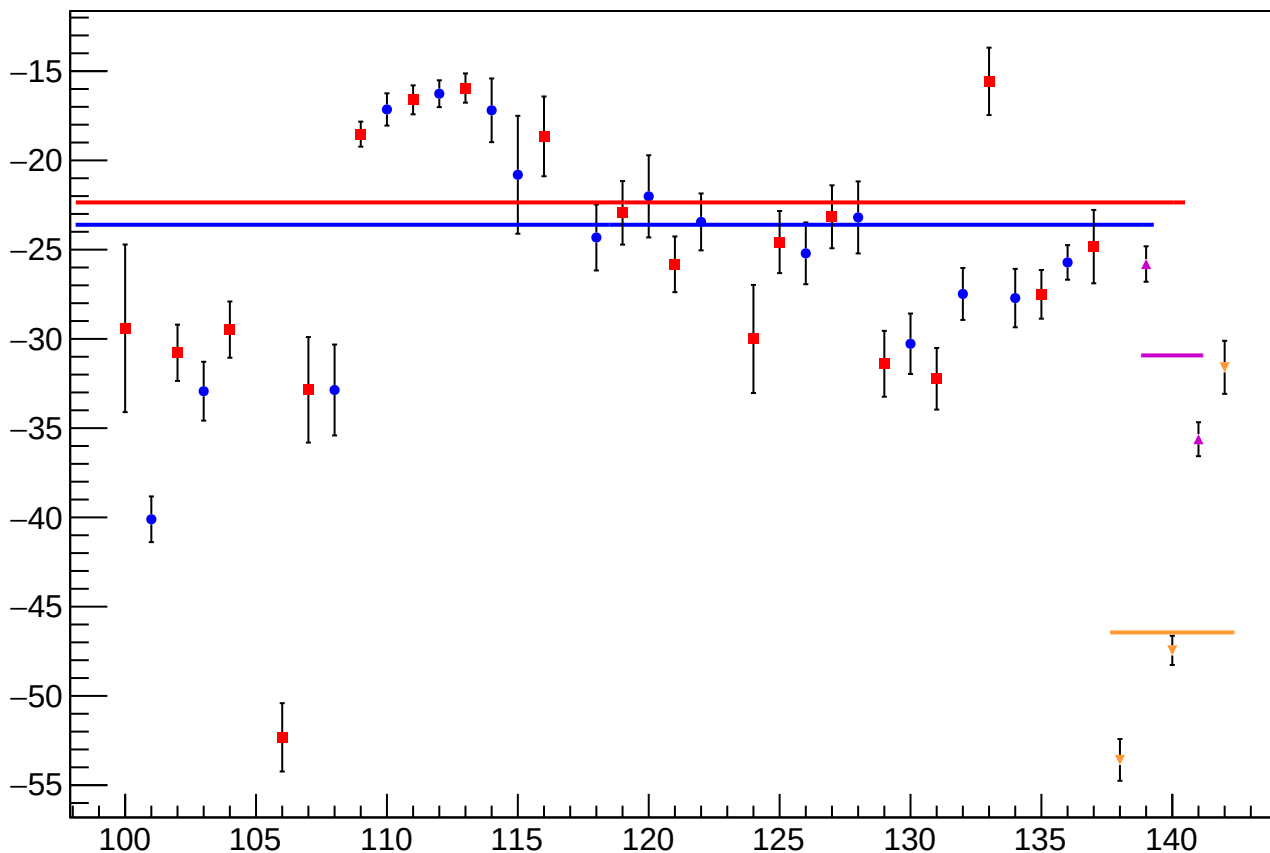
Right: -0.614 ± 0.018 χ^2/NDF : 2418.5/34

In: -0.385 ± 0.020 χ^2/NDF : 1236.5/17

Out: -0.413 ± 0.020 χ^2/NDF : 1589.2/21

All: -0.400 ± 0.014 χ^2/NDF : 2826.7/39

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.607 ± 0.348 χ^2/NDF : 406.4/15

Left Out: -46.443 ± 0.612 χ^2/NDF : 138.7/2

Right Out: -22.354 ± 0.322 χ^2/NDF : 551.7/18

Left In: -30.926 ± 0.687 χ^2/NDF : 51.0/1

Left: -39.581 ± 0.457 χ^2/NDF : 474.4/4

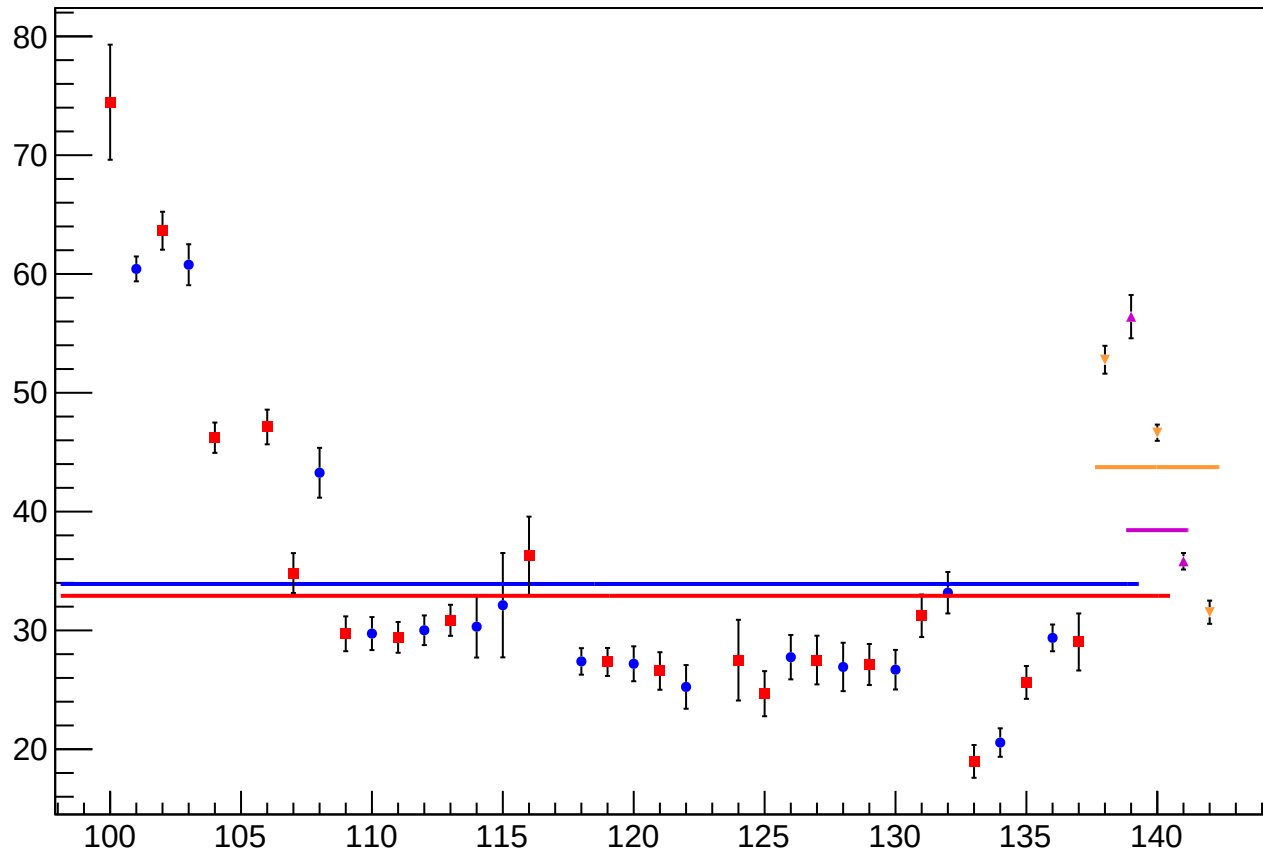
Right: -22.931 ± 0.236 χ^2/NDF : 965.1/34

In: -25.104 ± 0.311 χ^2/NDF : 547.7/17

Out: -27.577 ± 0.285 χ^2/NDF : 1905.7/21

All: -26.448 ± 0.210 χ^2/NDF : 2487.8/39

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 33.909 ± 0.375 χ^2/NDF : 1184.4/15

Left Out: 43.746 ± 0.505 χ^2/NDF : 233.5/2

Right Out: 32.911 ± 0.373 χ^2/NDF : 875.0/18

Left In: 38.439 ± 0.650 χ^2/NDF : 111.4/1

Left: 41.749 ± 0.399 χ^2/NDF : 386.5/4

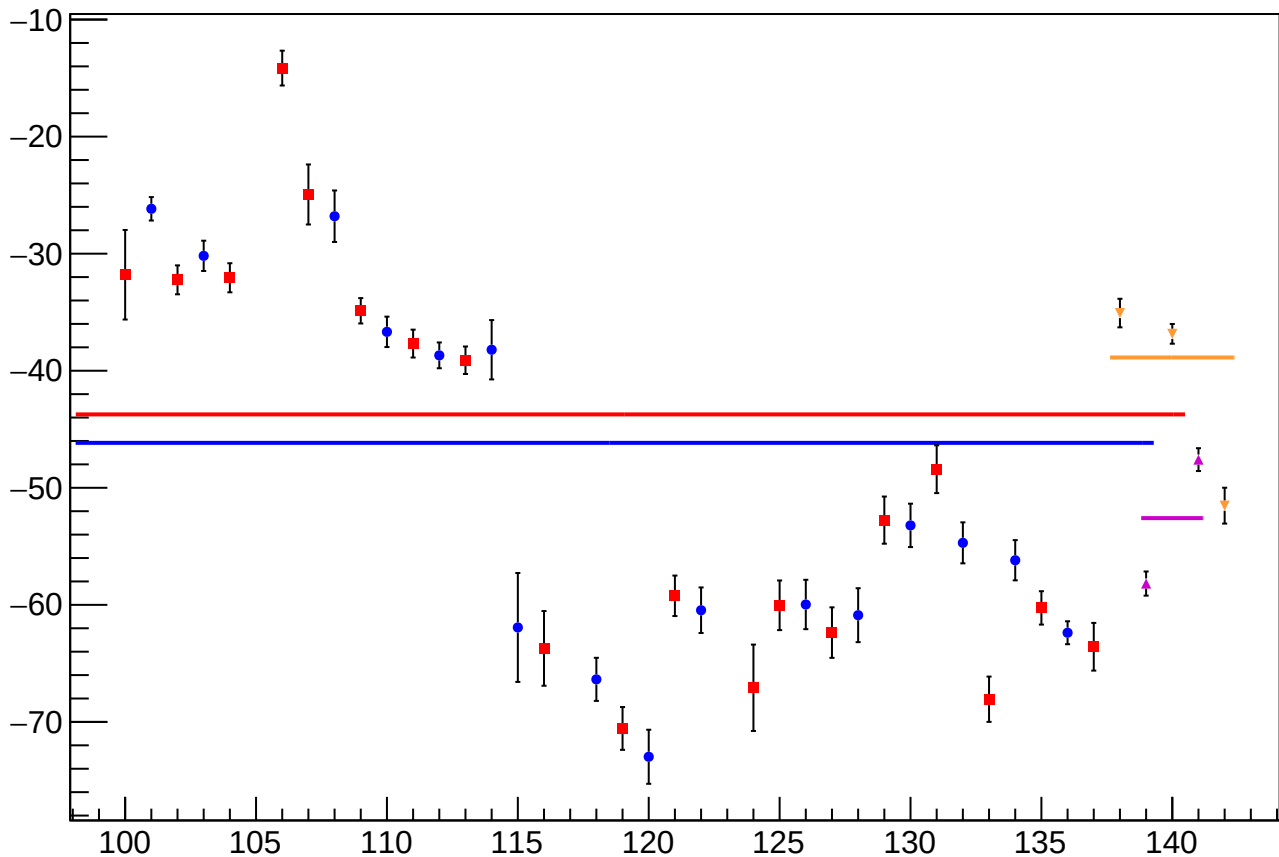
Right: 33.407 ± 0.264 χ^2/NDF : 2062.9/34

In: 35.042 ± 0.325 χ^2/NDF : 1332.3/17

Out: 36.731 ± 0.300 χ^2/NDF : 1406.6/21

All: 35.954 ± 0.220 χ^2/NDF : 2753.4/39

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -46.160 $\pm$ 0.390 χ^2 /NDF: 1489.6/15

Left Out: -38.868 $\pm$ 0.632 χ^2 /NDF:83.7/2

Right Out: -43.730 $\pm$ 0.378 χ^2 /NDF: 1663.4/18

Left In: -52.590 $\pm$ 0.709 χ^2 /NDF:55.6/1

Left: -44.940 $\pm$ 0.472 χ^2 /NDF: 348.0/4

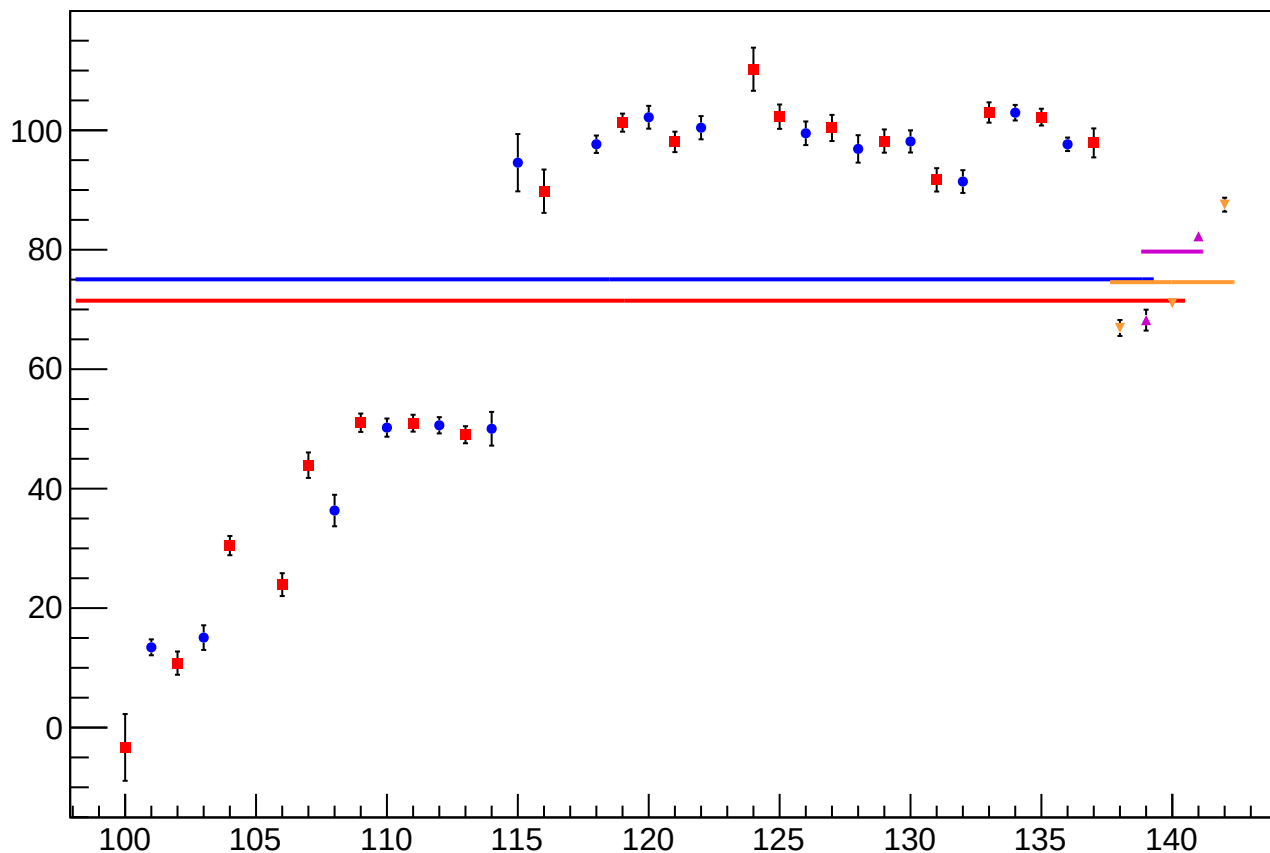
Right: -44.909 $\pm$ 0.271 χ^2 /NDF: 3173.0/34

In: -47.652 $\pm$ 0.342 χ^2 /NDF:1608.3/17

Out: -42.447 $\pm$ 0.325 χ^2 /NDF:1790.6/21

All: -44.917 $\pm$ 0.235 χ^2 /NDF: 3521.0/39

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 75.042 $\pm$ 0.427 χ^2 /NDF: 5828.3/15

Left Out: 74.573 $\pm$ 0.599 χ^2 /NDF:175.1/2

Right Out: 71.468 $\pm$ 0.426 χ^2 /NDF: 5628.2/18

Left In: 79.691 $\pm$ 0.748 χ^2 /NDF:52.6/1

Left: 76.575 $\pm$ 0.468 χ^2 /NDF: 256.2/4

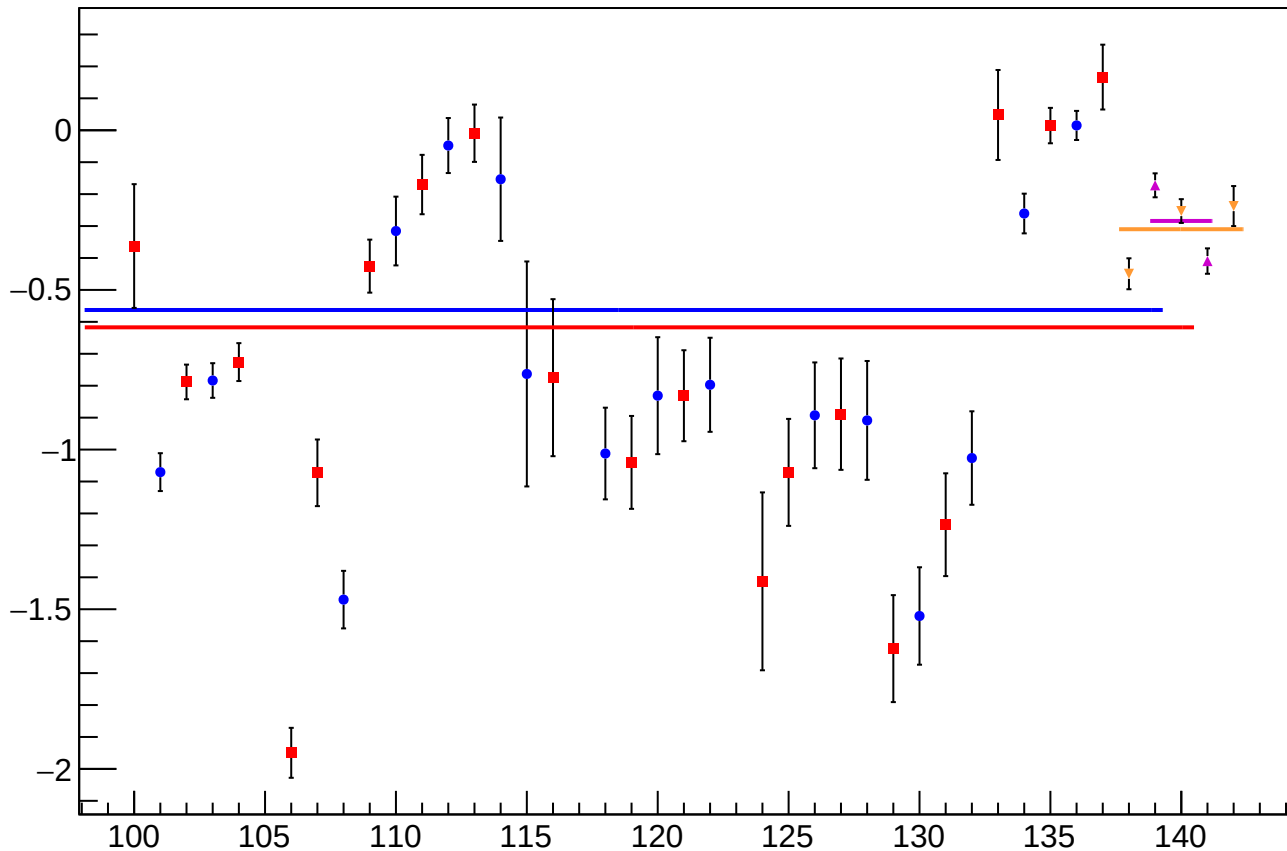
Right: 73.248 $\pm$ 0.302 χ^2 /NDF: 11491.6/34

In: 76.187 $\pm$ 0.371 χ^2 /NDF:5910.0/17

Out: 72.510 $\pm$ 0.347 χ^2 /NDF:5821.1/21

All: 74.226 $\pm$ 0.253 χ^2 /NDF: 11783.5/39

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.563 ± 0.022 χ^2/NDF : 493.0/15

Left Out: -0.310 ± 0.027 χ^2/NDF : 12.0/2

Right Out: -0.617 ± 0.022 χ^2/NDF : 690.0/18

Left In: -0.284 ± 0.027 χ^2/NDF : 18.8/1

Left: -0.297 ± 0.019 χ^2/NDF : 31.2/4

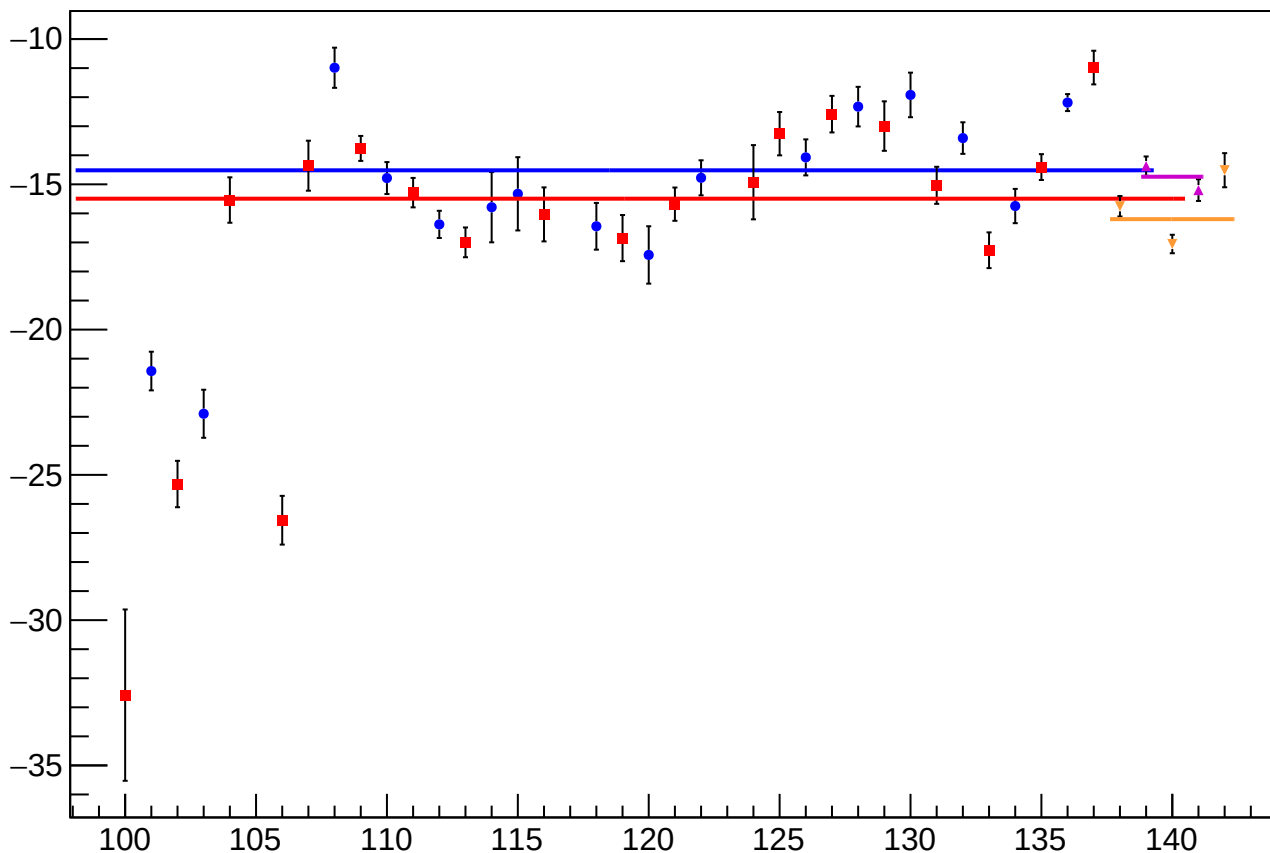
Right: -0.590 ± 0.016 χ^2/NDF : 1186.0/34

In: -0.452 ± 0.017 χ^2/NDF : 574.6/17

Out: -0.492 ± 0.017 χ^2/NDF : 780.3/21

All: -0.472 ± 0.012 χ^2/NDF : 1357.6/39

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.518+/-0.149 χ^2/NDF : 363.3/15

Left Out: -16.198+/-0.219 χ^2/NDF : 17.1/2

Right Out: -15.494+/-0.150 χ^2/NDF : 503.8/18

Left In: -14.738+/-0.249 χ^2/NDF : 2.7/1

Left: -15.560+/-0.164 χ^2/NDF : 39.2/4

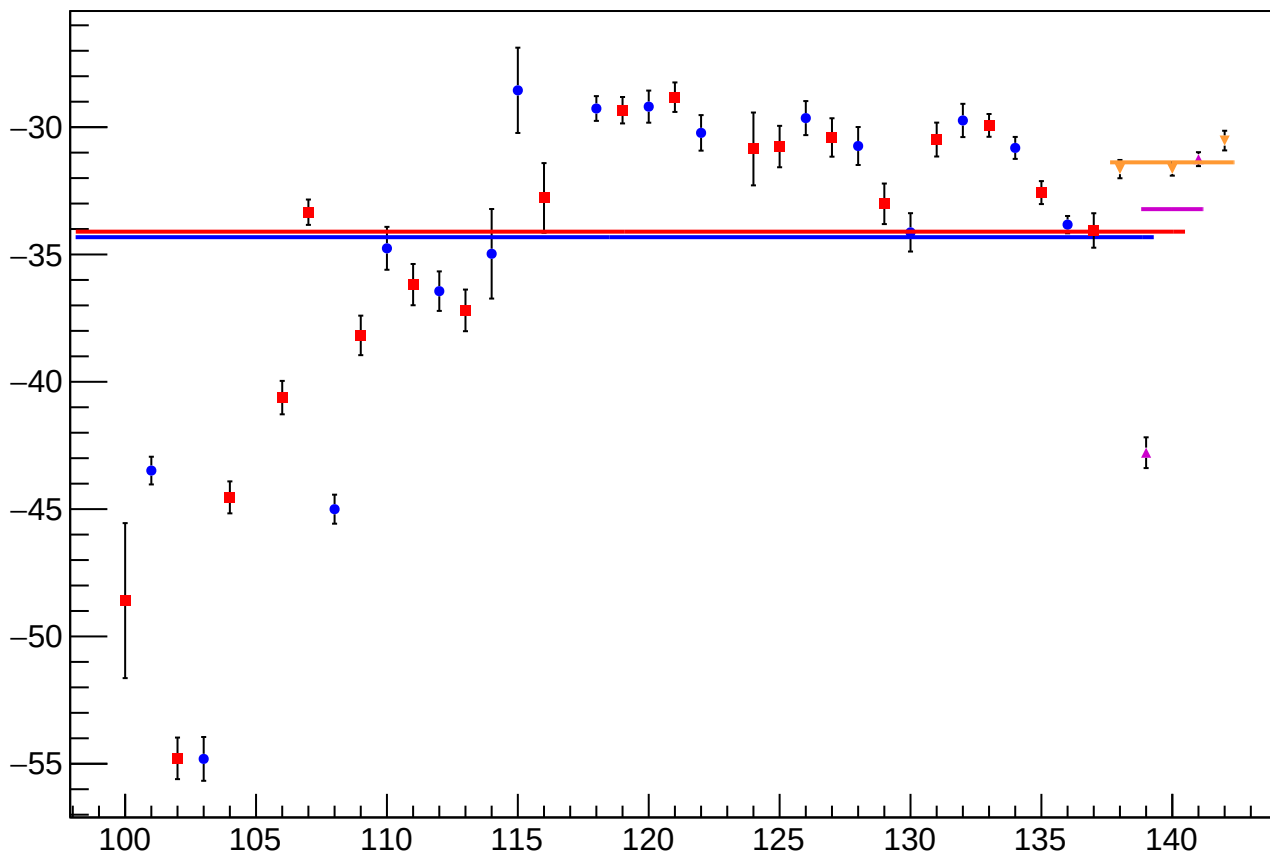
Right: -15.004+/-0.106 χ^2/NDF : 888.5/34

In: -14.576+/-0.128 χ^2/NDF : 366.6/17

Out: -15.719+/-0.124 χ^2/NDF : 527.9/21

All: -15.167+/-0.089 χ^2/NDF : 935.7/39

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -34.321 ± 0.153 $\chi^2/\text{NDF}: 1620.5/15$

Left Out: -31.382 ± 0.187 $\chi^2/\text{NDF}: 6.4/2$

Right Out: -34.104 ± 0.154 $\chi^2/\text{NDF}: 1434.8/18$

Left In: -33.220 ± 0.249 $\chi^2/\text{NDF}: 302.0/1$

Left: -32.042 ± 0.149 $\chi^2/\text{NDF}: 343.2/4$

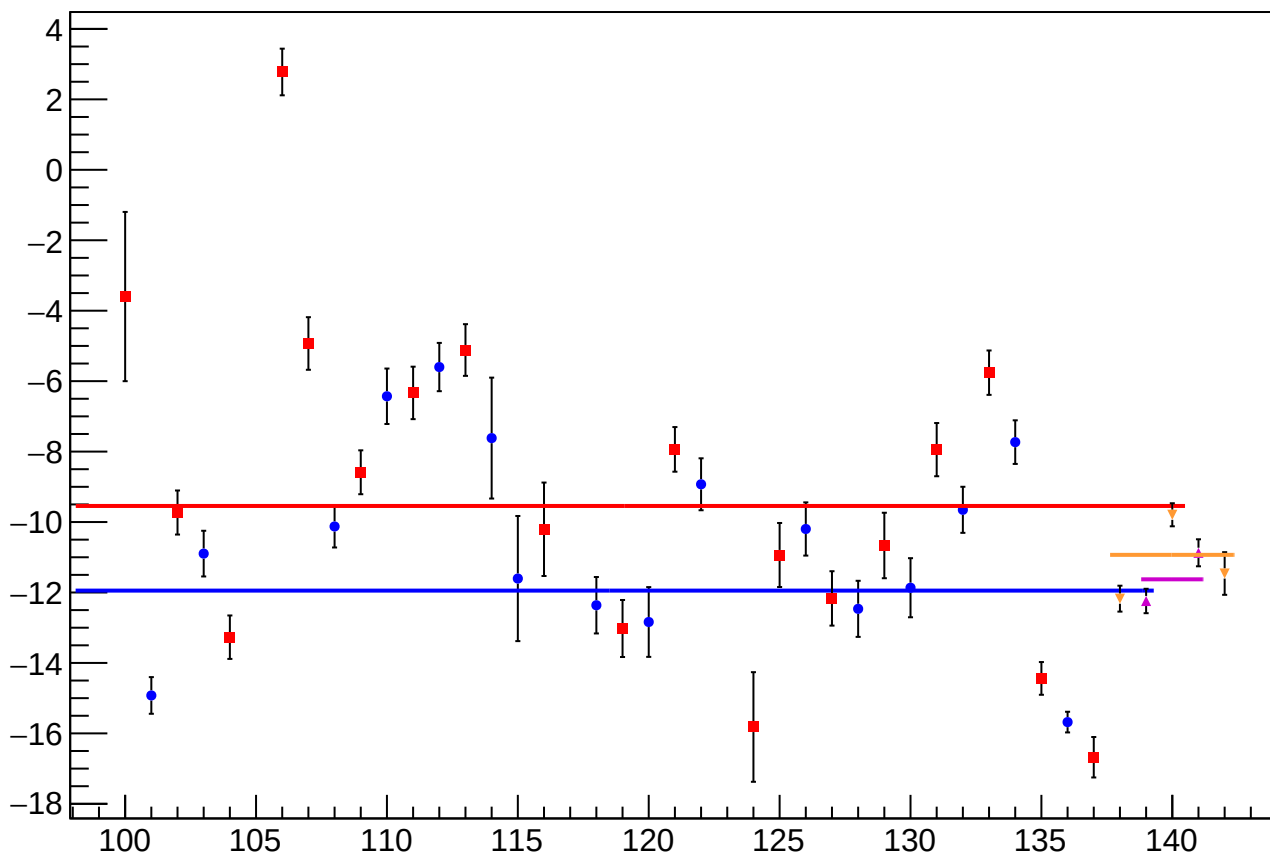
Right: -34.213 ± 0.109 $\chi^2/\text{NDF}: 3056.3/34$

In: -34.019 ± 0.131 $\chi^2/\text{NDF}: 1936.6/17$

Out: -33.000 ± 0.119 $\chi^2/\text{NDF}: 1567.6/21$

All: -33.462 ± 0.088 $\chi^2/\text{NDF}: 3537.6/39$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -11.946 ± 0.160 χ^2/NDF : 430.0/15

Left Out: -10.932 ± 0.227 χ^2/NDF : 24.3/2

Right Out: -9.544 ± 0.165 χ^2/NDF : 847.1/18

Left In: -11.627 ± 0.257 χ^2/NDF : 7.0/1

Left: -11.236 ± 0.170 χ^2/NDF : 35.4/4

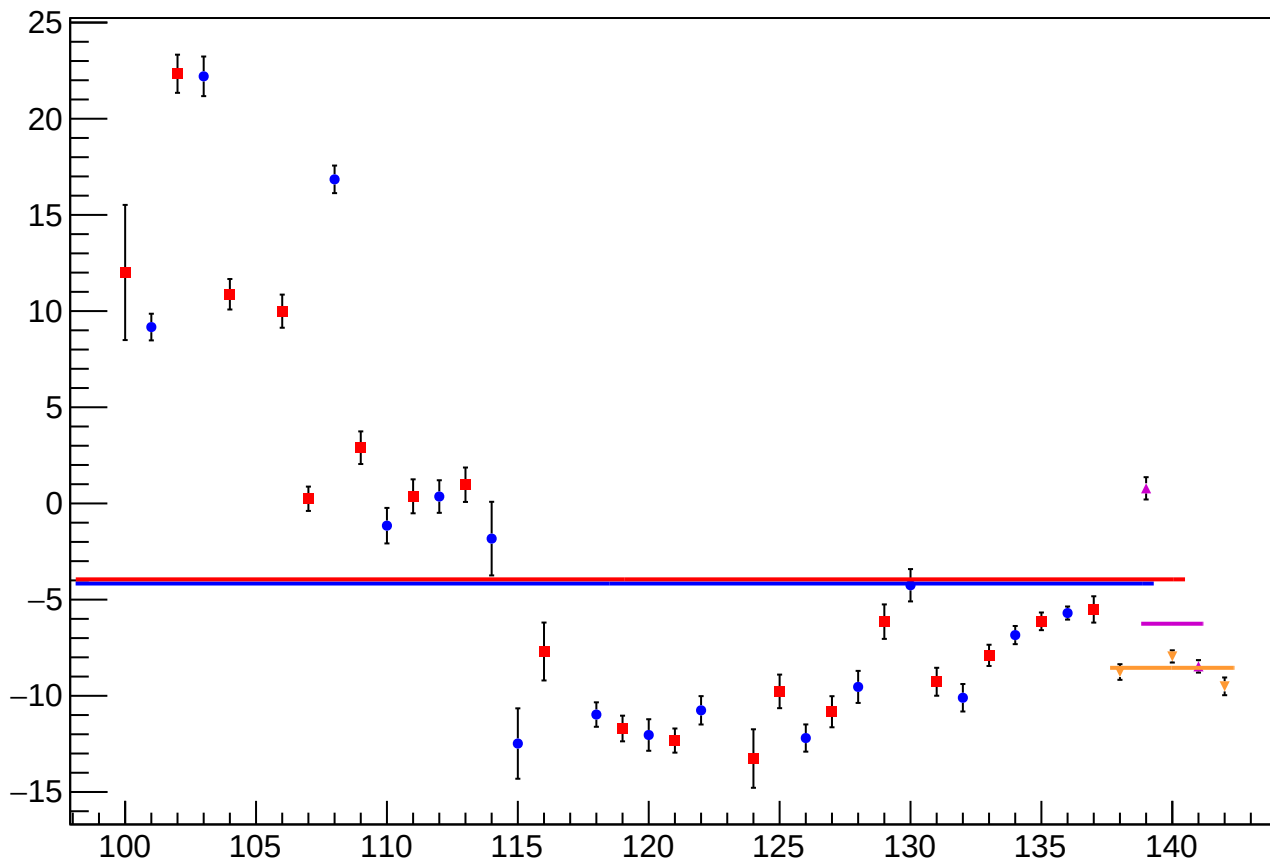
Right: -10.782 ± 0.115 χ^2/NDF : 1386.2/34

In: -11.857 ± 0.136 χ^2/NDF : 438.1/17

Out: -10.025 ± 0.133 χ^2/NDF : 895.9/21

All: -10.925 ± 0.095 χ^2/NDF : 1426.5/39

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.163 ± 0.172 χ^2/NDF : 2525.0/15

Left Out: -8.545 ± 0.220 χ^2/NDF : 8.1/2

Right Out: -3.947 ± 0.176 χ^2/NDF : 2110.2/18

Left In: -6.253 ± 0.284 χ^2/NDF : 193.7/1

Left: -7.684 ± 0.174 χ^2/NDF : 242.6/4

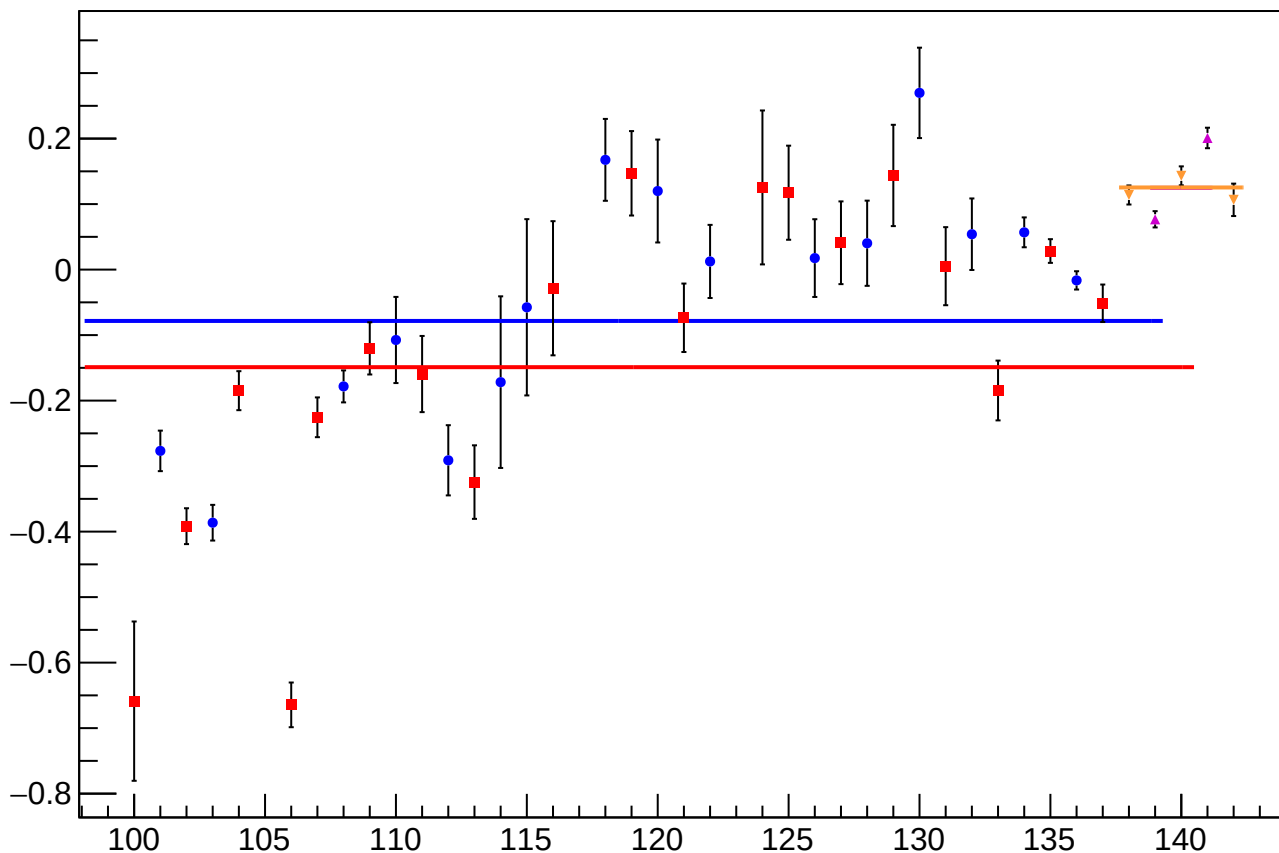
Right: -4.057 ± 0.123 χ^2/NDF : 4636.0/34

In: -4.724 ± 0.147 χ^2/NDF : 2758.4/17

Out: -5.740 ± 0.137 χ^2/NDF : 2384.4/21

All: -5.266 ± 0.100 χ^2/NDF : 5168.3/39

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.078 ± 0.009 χ^2/NDF : 318.8/15

Left Out: 0.125 ± 0.009 χ^2/NDF : 2.7/2

Right Out: -0.149 ± 0.009 χ^2/NDF : 524.8/18

Left In: 0.125 ± 0.010 χ^2/NDF : 38.6/1

Left: 0.125 ± 0.007 χ^2/NDF : 41.3/4

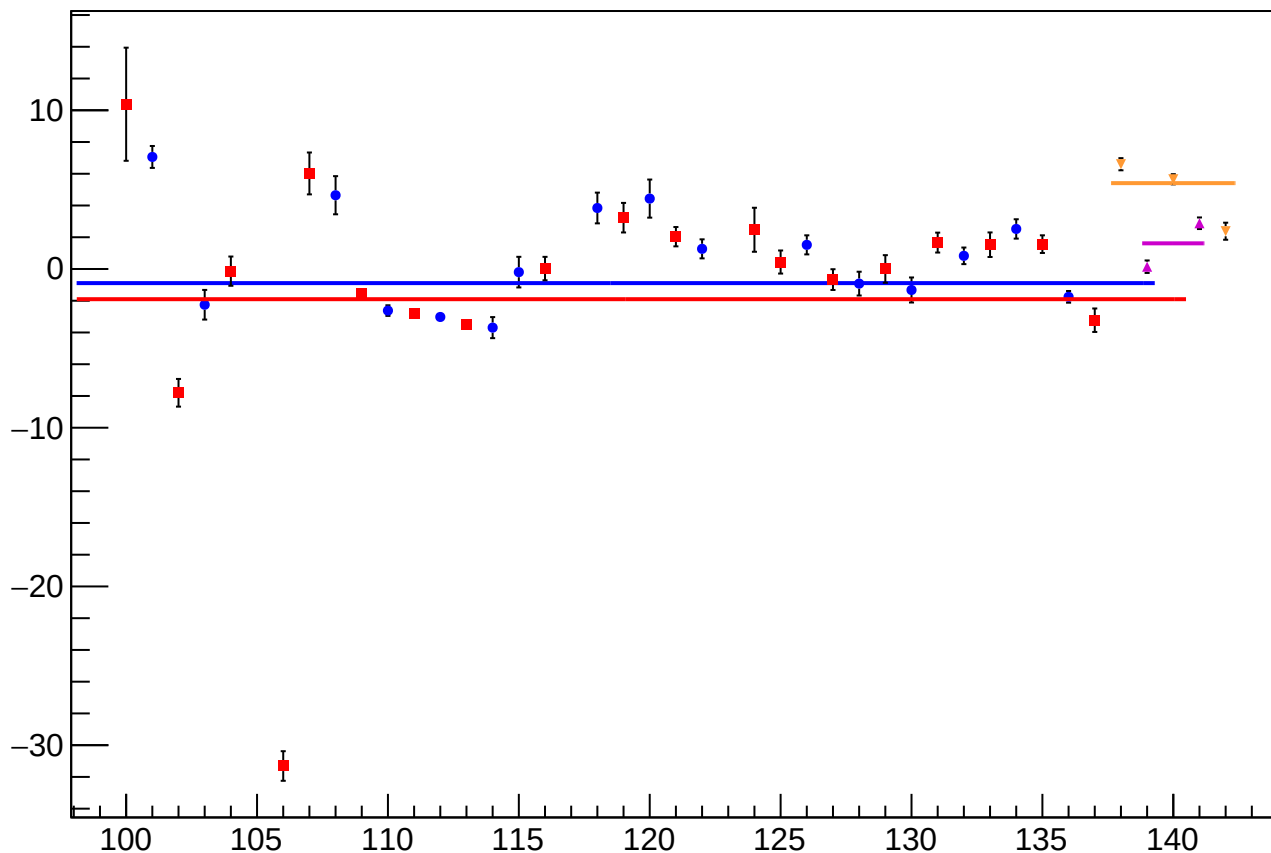
Right: -0.112 ± 0.006 χ^2/NDF : 875.6/34

In: 0.010 ± 0.006 χ^2/NDF : 603.0/17

Out: -0.018 ± 0.007 χ^2/NDF : 964.7/21

All: -0.003 ± 0.005 χ^2/NDF : 1577.1/39

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.889 ± 0.137 $\chi^2/\text{NDF}: 380.3/15$

Left Out: 5.409 ± 0.224 $\chi^2/\text{NDF}: 42.0/2$

Right Out: -1.903 ± 0.128 $\chi^2/\text{NDF}: 1331.8/18$

Left In: 1.616 ± 0.268 $\chi^2/\text{NDF}: 26.0/1$

Left: 3.850 ± 0.172 $\chi^2/\text{NDF}: 186.3/4$

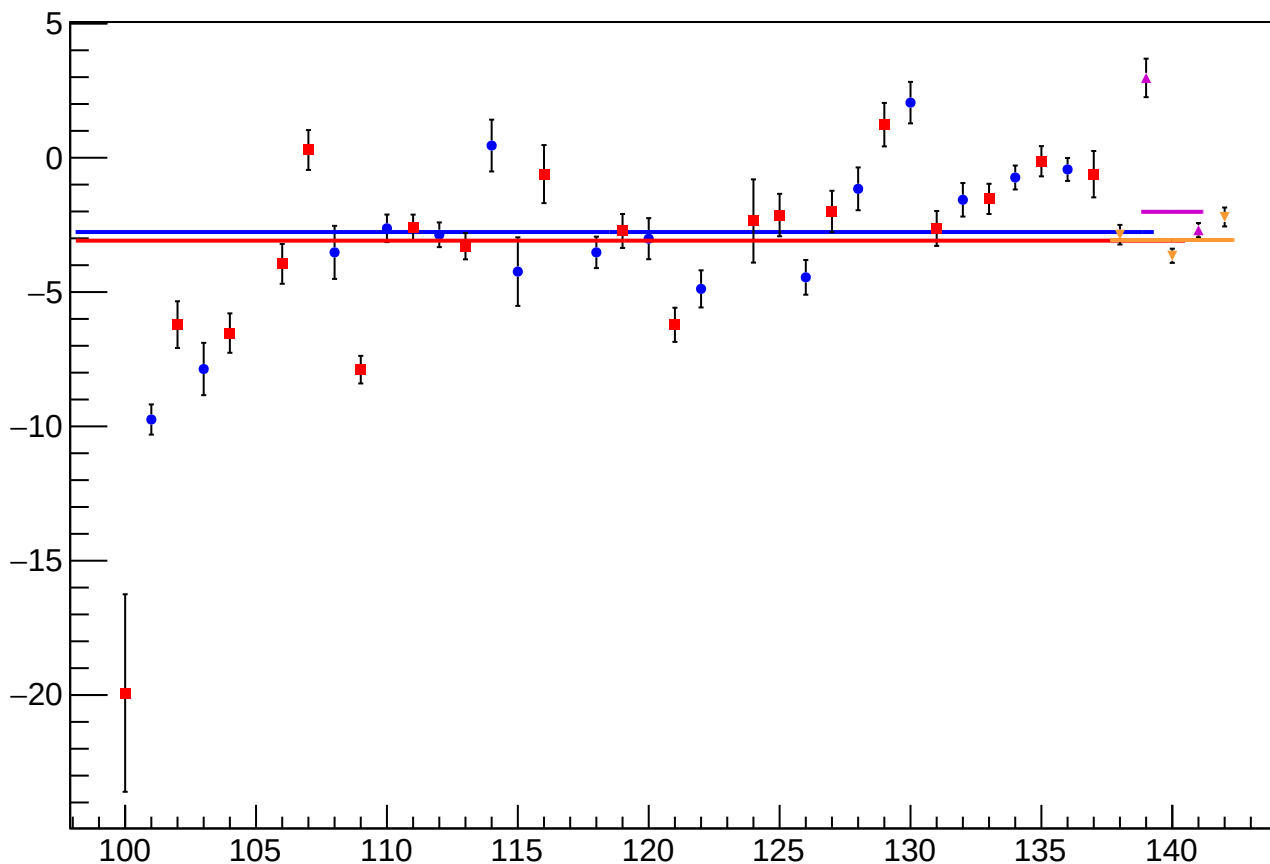
Right: -1.428 ± 0.094 $\chi^2/\text{NDF}: 1741.3/34$

In: -0.372 ± 0.122 $\chi^2/\text{NDF}: 475.8/17$

Out: -0.091 ± 0.111 $\chi^2/\text{NDF}: 2177.9/21$

All: -0.219 ± 0.082 $\chi^2/\text{NDF}: 2656.6/39$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.766 ± 0.156 $\chi^2/\text{NDF}: 310.1/15$

Left Out: -3.062 ± 0.183 $\chi^2/\text{NDF}: 11.2/2$

Right Out: -3.086 ± 0.158 $\chi^2/\text{NDF}: 272.5/18$

Left In: -2.013 ± 0.249 $\chi^2/\text{NDF}: 55.0/1$

Left: -2.694 ± 0.147 $\chi^2/\text{NDF}: 77.7/4$

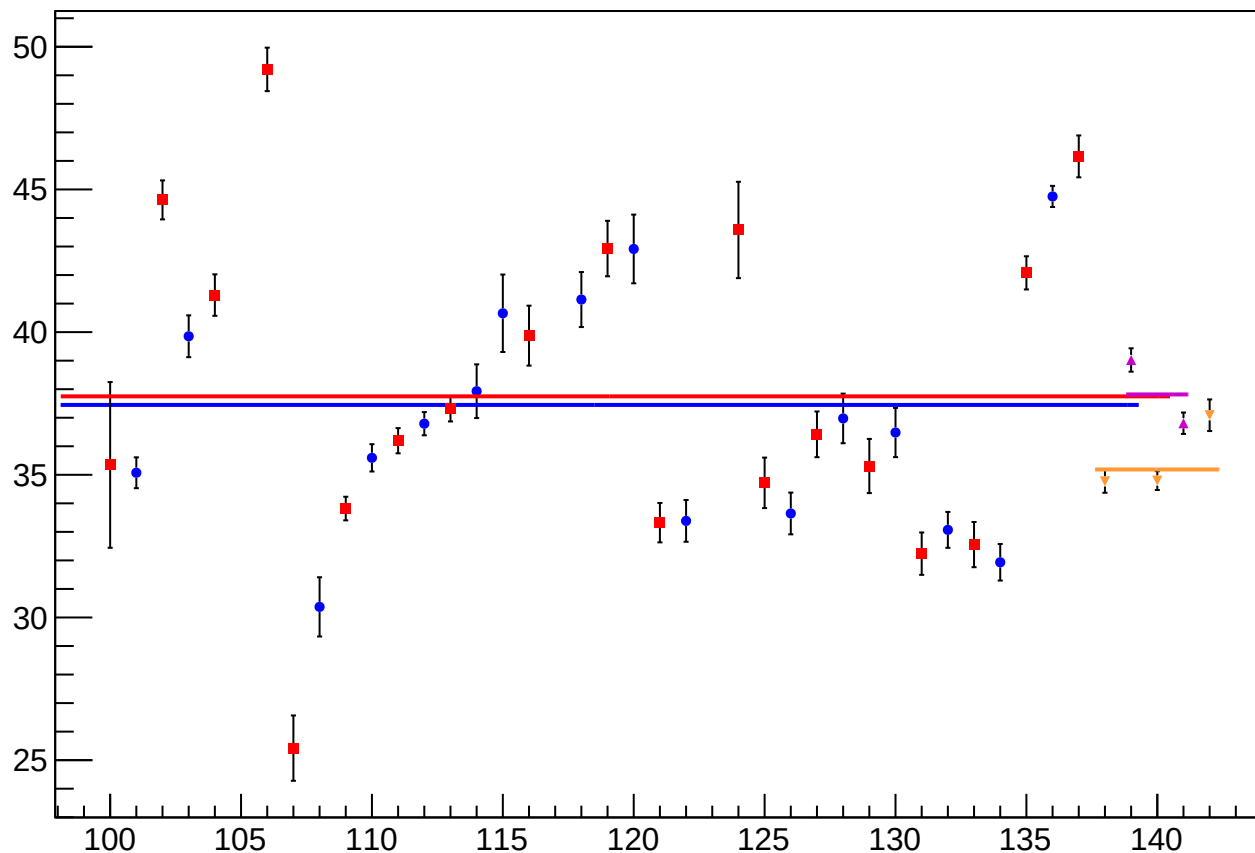
Right: -2.925 ± 0.111 $\chi^2/\text{NDF}: 584.6/34$

In: -2.553 ± 0.132 $\chi^2/\text{NDF}: 371.7/17$

Out: -3.076 ± 0.119 $\chi^2/\text{NDF}: 283.6/21$

All: -2.841 ± 0.089 $\chi^2/\text{NDF}: 663.9/39$

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 37.449 $\pm$ 0.161 χ^2 /NDF: 706.9/15

Left Out: 35.186 $\pm$ 0.231 χ^2 /NDF:14.3/2

Right Out: 37.749 $\pm$ 0.159 χ^2 /NDF: 963.6/18

Left In: 37.816 $\pm$ 0.276 χ^2 /NDF:15.9/1

Left: 36.269 $\pm$ 0.177 χ^2 /NDF: 83.5/4

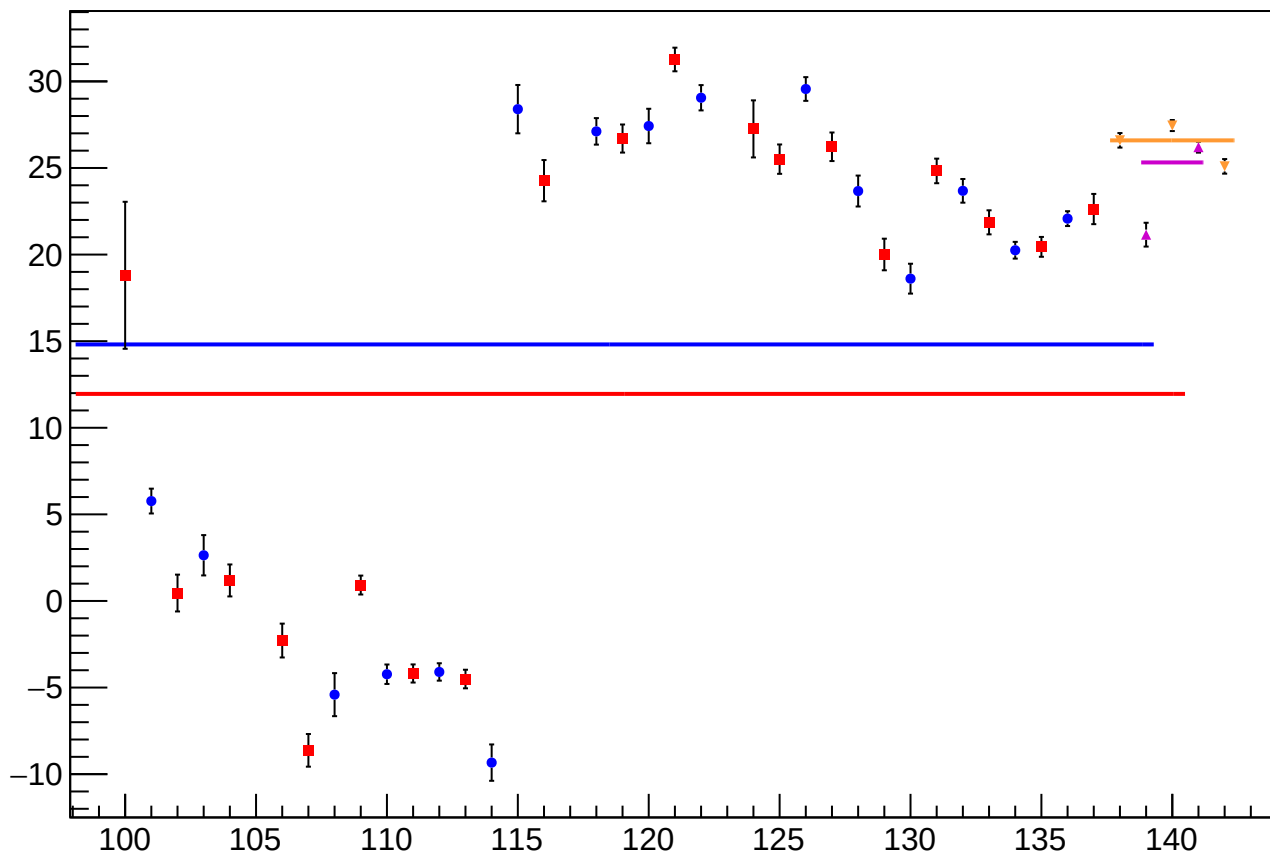
Right: 37.600 $\pm$ 0.113 χ^2 /NDF: 1672.3/34

In: 37.542 $\pm$ 0.139 χ^2 /NDF:724.2/17

Out: 36.923 $\pm$ 0.131 χ^2 /NDF:1061.1/21

All: 37.215 $\pm$ 0.095 χ^2 /NDF: 1795.8/39

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.812 $\pm$ 0.174 χ^2 /NDF: 5686.4/15

Left Out: 26.594 $\pm$ 0.218 χ^2 /NDF:19.9/2

Right Out: 11.955 $\pm$ 0.177 χ^2 /NDF: 6105.5/18

Left In: 25.320 $\pm$ 0.288 χ^2 /NDF:44.6/1

Left: 26.130 $\pm$ 0.173 χ^2 /NDF: 77.0/4

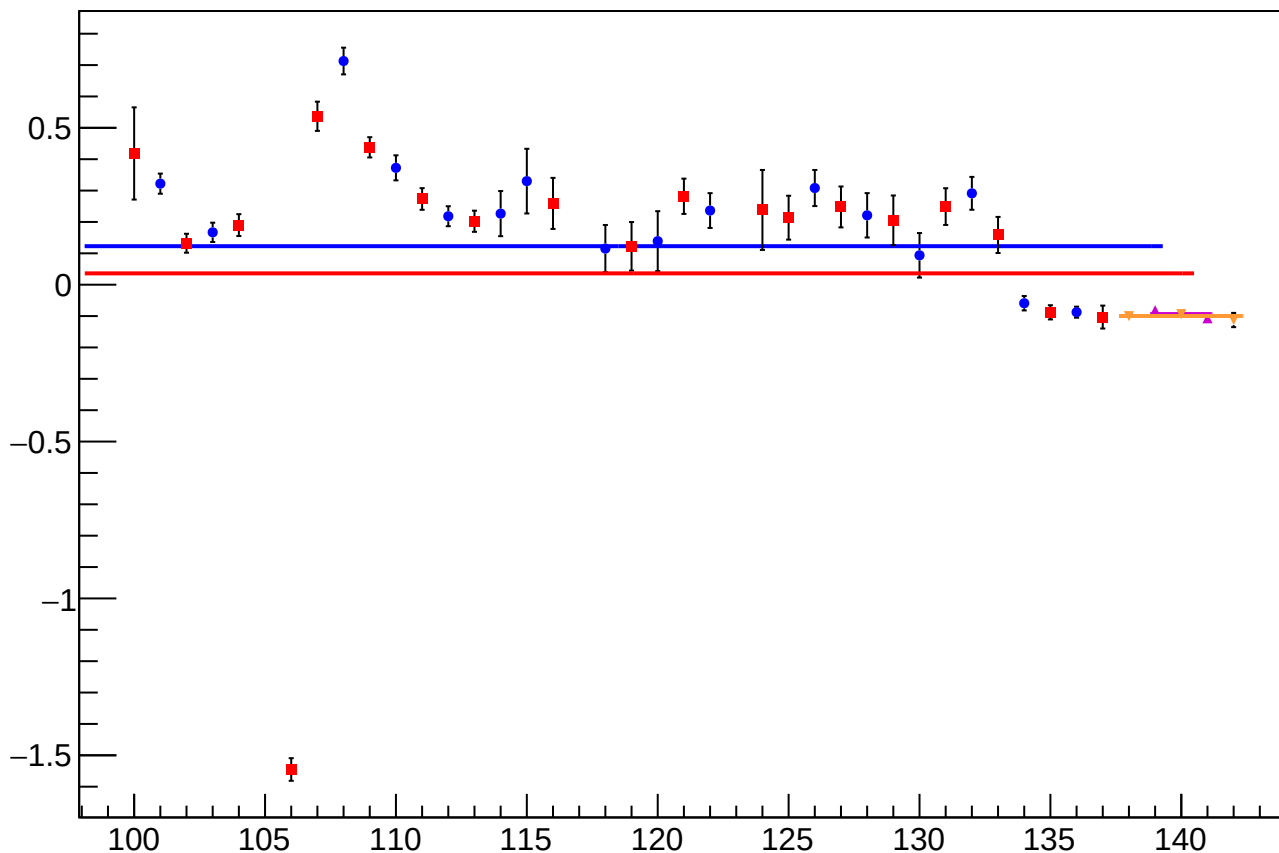
Right: 13.408 $\pm$ 0.124 χ^2 /NDF: 11924.5/34

In: 17.625 $\pm$ 0.149 χ^2 /NDF:6708.8/17

Out: 17.779 $\pm$ 0.137 χ^2 /NDF:8852.1/21

All: 17.709 $\pm$ 0.101 χ^2 /NDF: 15561.5/39

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.123 ± 0.009 $\chi^2/\text{NDF}: 520.0/15$

Left Out: -0.100 ± 0.010 $\chi^2/\text{NDF}: 0.5/2$

Right Out: 0.036 ± 0.010 $\chi^2/\text{NDF}: 2414.7/18$

Left In: -0.094 ± 0.011 $\chi^2/\text{NDF}: 1.5/1$

Left: -0.097 ± 0.007 $\chi^2/\text{NDF}: 2.1/4$

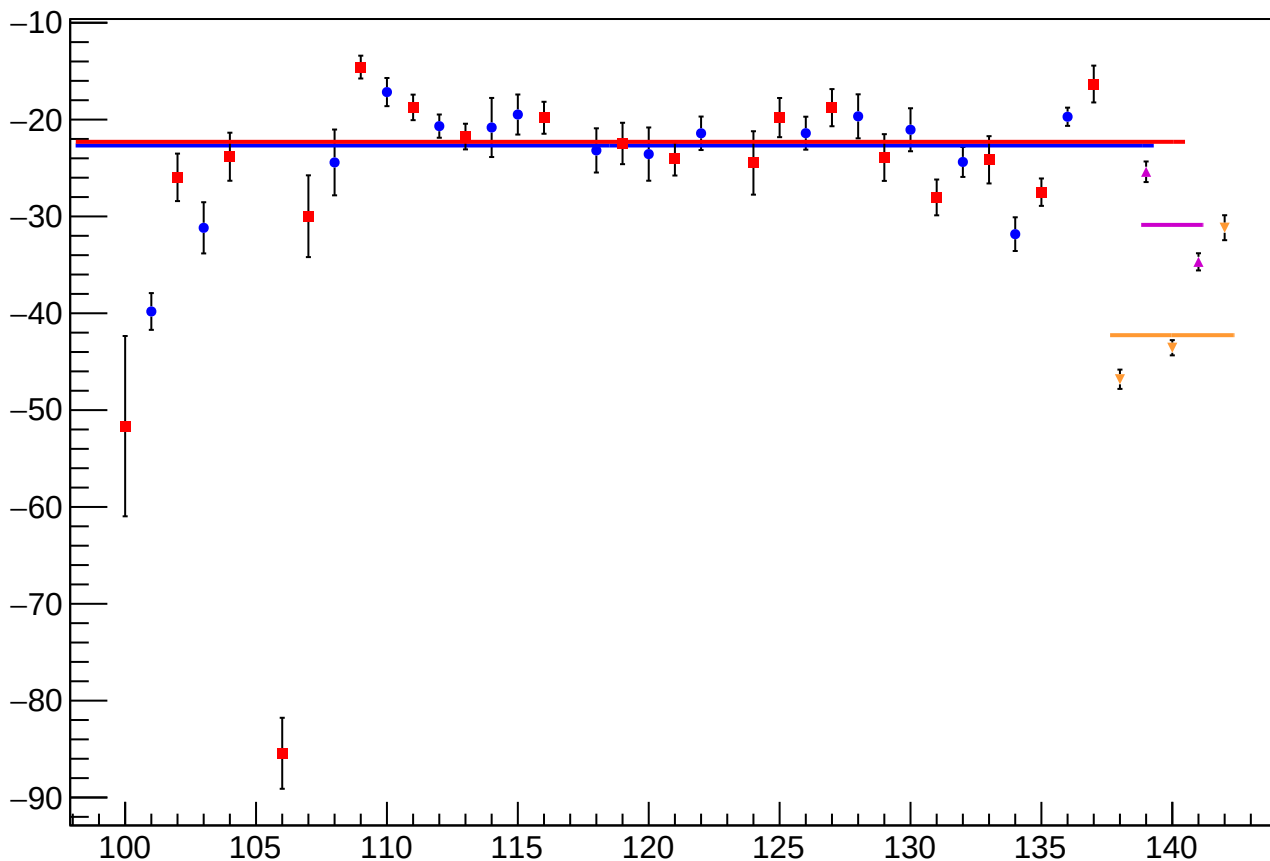
Right: 0.081 ± 0.007 $\chi^2/\text{NDF}: 2975.5/34$

In: 0.028 ± 0.007 $\chi^2/\text{NDF}: 754.0/17$

Out: -0.032 ± 0.007 $\chi^2/\text{NDF}: 2511.7/21$

All: -0.003 ± 0.005 $\chi^2/\text{NDF}: 3301.9/39$

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -22.675 ± 0.435 χ^2/NDF : 154.4/15

Left Out: -42.261 ± 0.557 χ^2/NDF : 97.8/2

Right Out: -22.295 ± 0.435 χ^2/NDF : 405.5/18

Left In: -30.873 ± 0.681 χ^2/NDF : 45.1/1

Left: -37.697 ± 0.431 χ^2/NDF : 310.5/4

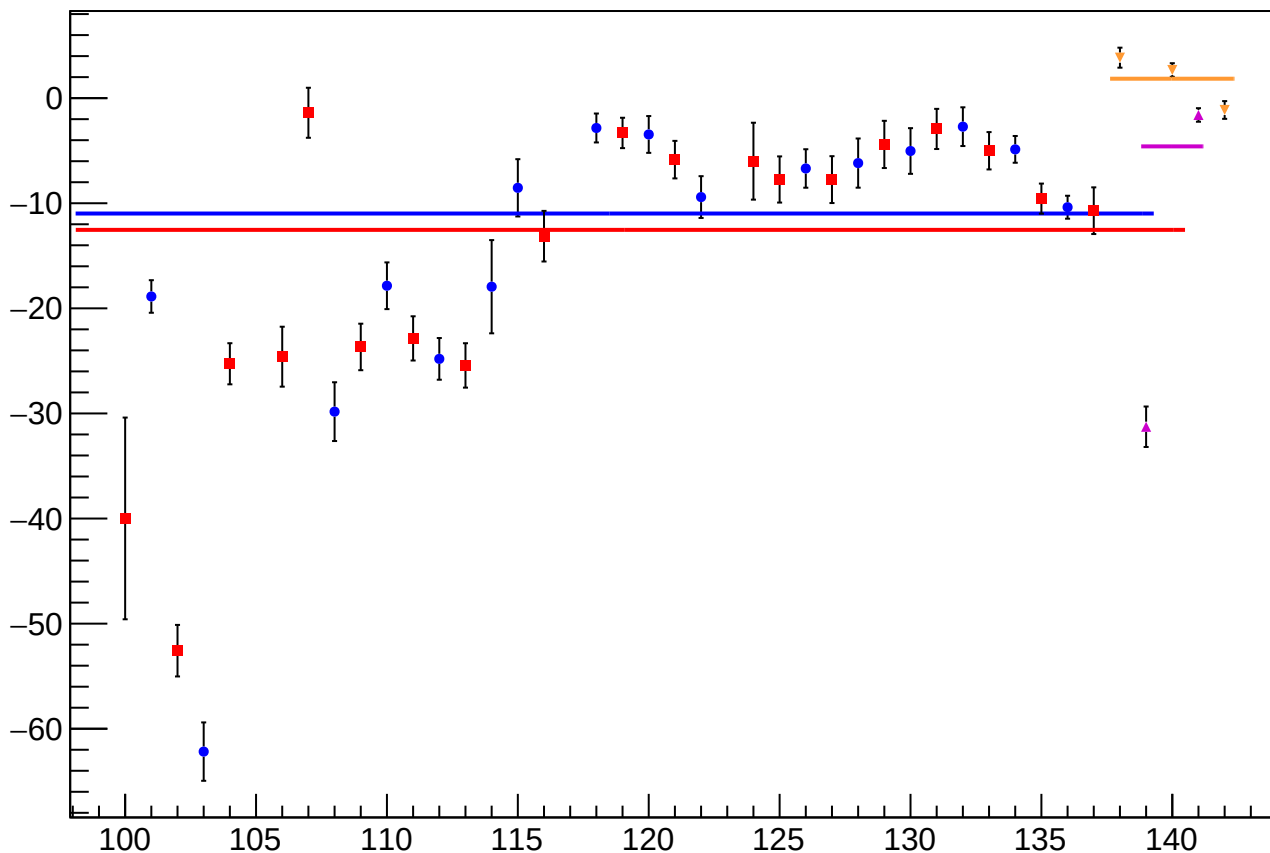
Right: -22.485 ± 0.307 χ^2/NDF : 560.3/34

In: -25.047 ± 0.366 χ^2/NDF : 302.6/17

Out: -29.865 ± 0.343 χ^2/NDF : 1301.4/21

All: -27.615 ± 0.250 χ^2/NDF : 1696.2/39

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -10.978 ± 0.453 χ^2/NDF : 587.3/15

Left Out: 1.849 ± 0.452 χ^2/NDF : 18.5/2

Right Out: -12.533 ± 0.481 χ^2/NDF : 572.3/18

Left In: -4.590 ± 0.611 χ^2/NDF : 213.4/1

Left: -0.429 ± 0.364 χ^2/NDF : 303.6/4

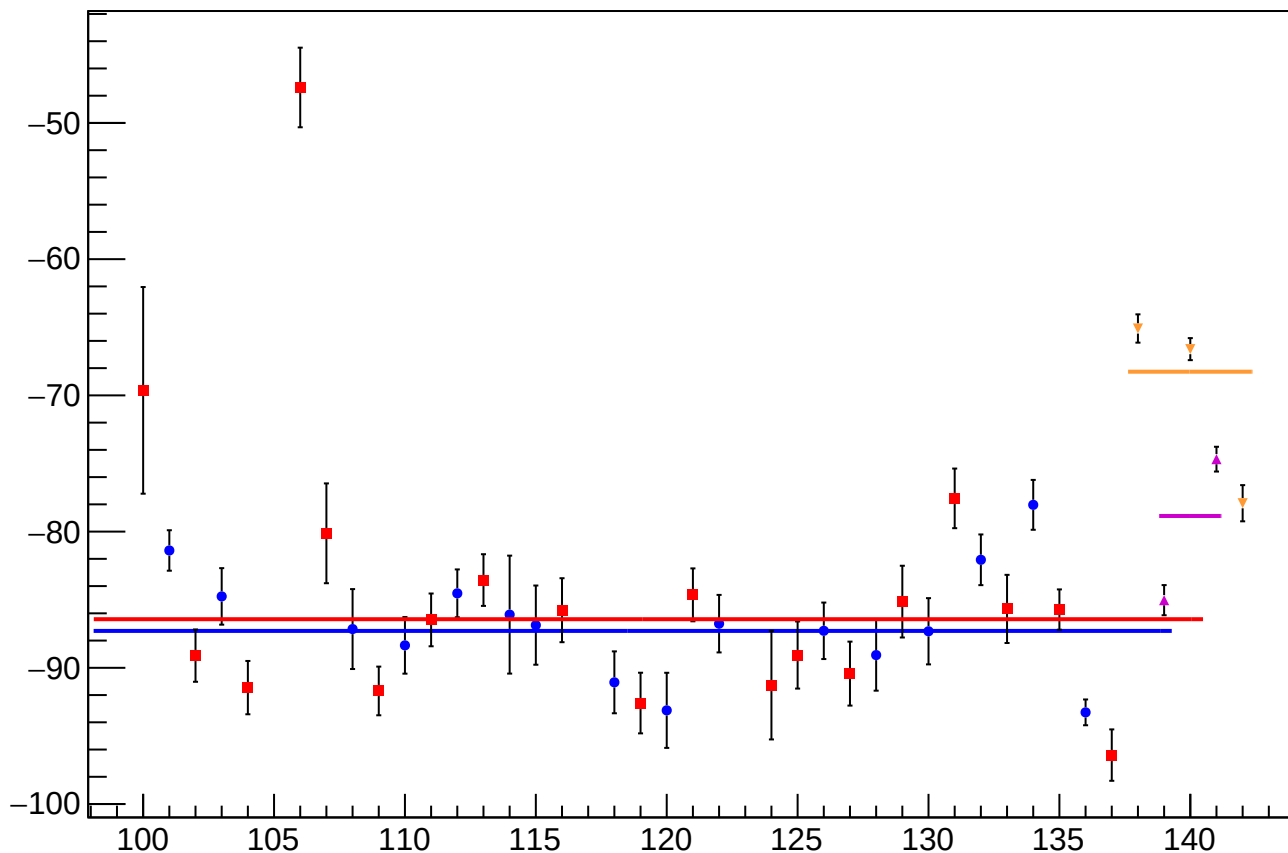
Right: -11.710 ± 0.330 χ^2/NDF : 1165.1/34

In: -8.711 ± 0.364 χ^2/NDF : 871.2/17

Out: -4.900 ± 0.330 χ^2/NDF : 1065.0/21

All: -6.617 ± 0.244 χ^2/NDF : 1996.4/39

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -87.291 ± 0.481 χ^2/NDF : 101.2/15

Left Out: -68.261 ± 0.575 χ^2/NDF : 66.3/2

Right Out: -86.431 ± 0.506 χ^2/NDF : 264.8/18

Left In: -78.853 ± 0.703 χ^2/NDF : 52.2/1

Left: -72.511 ± 0.445 χ^2/NDF : 254.5/4

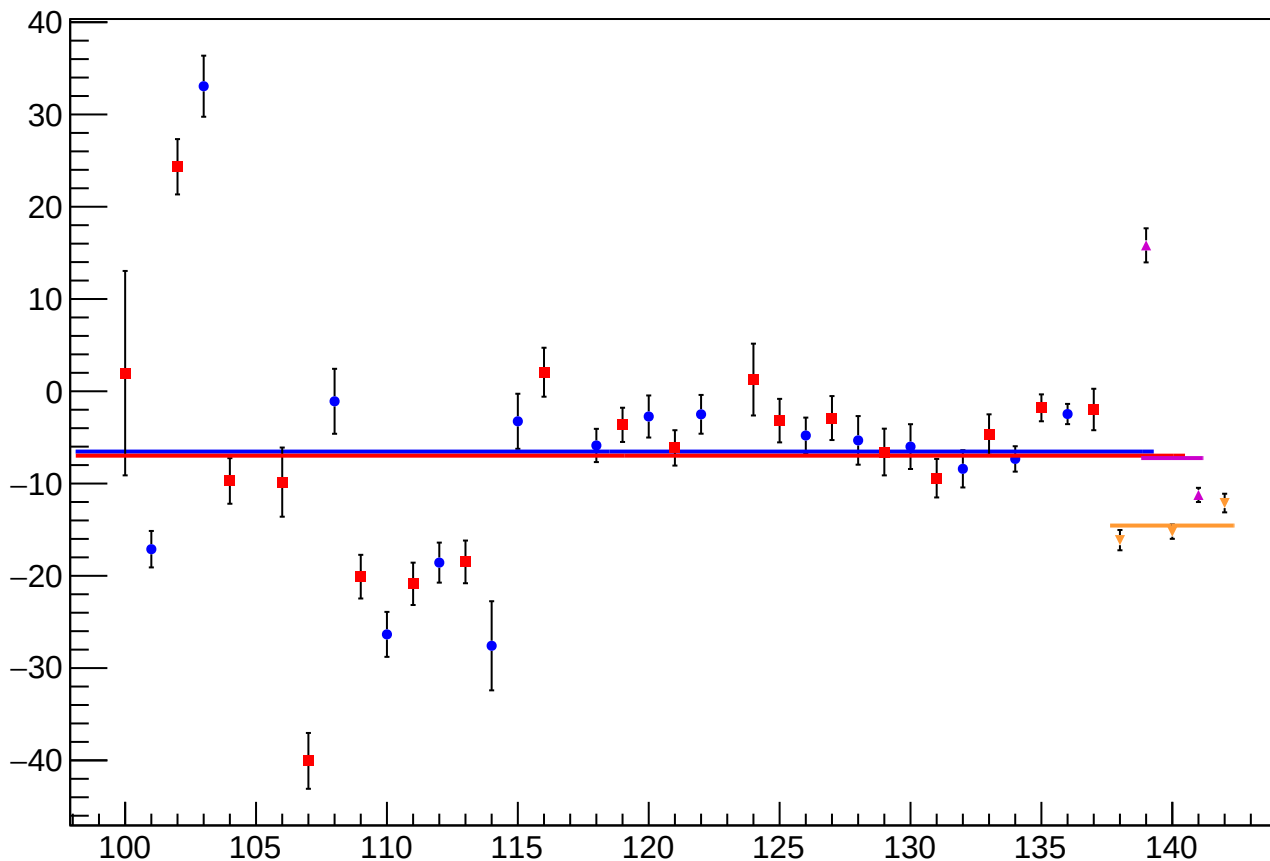
Right: -86.883 ± 0.348 χ^2/NDF : 367.6/34

In: -84.603 ± 0.397 χ^2/NDF : 251.6/17

Out: -78.508 ± 0.380 χ^2/NDF : 893.6/21

All: -81.424 ± 0.274 χ^2/NDF : 1268.3/39

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.535 ± 0.508 χ^2/NDF : 313.9/15

Left Out: -14.553 ± 0.539 χ^2/NDF : 8.6/2

Right Out: -6.979 ± 0.542 χ^2/NDF : 368.3/18

Left In: -7.239 ± 0.710 χ^2/NDF : 182.7/1

Left: -11.881 ± 0.429 χ^2/NDF : 258.7/4

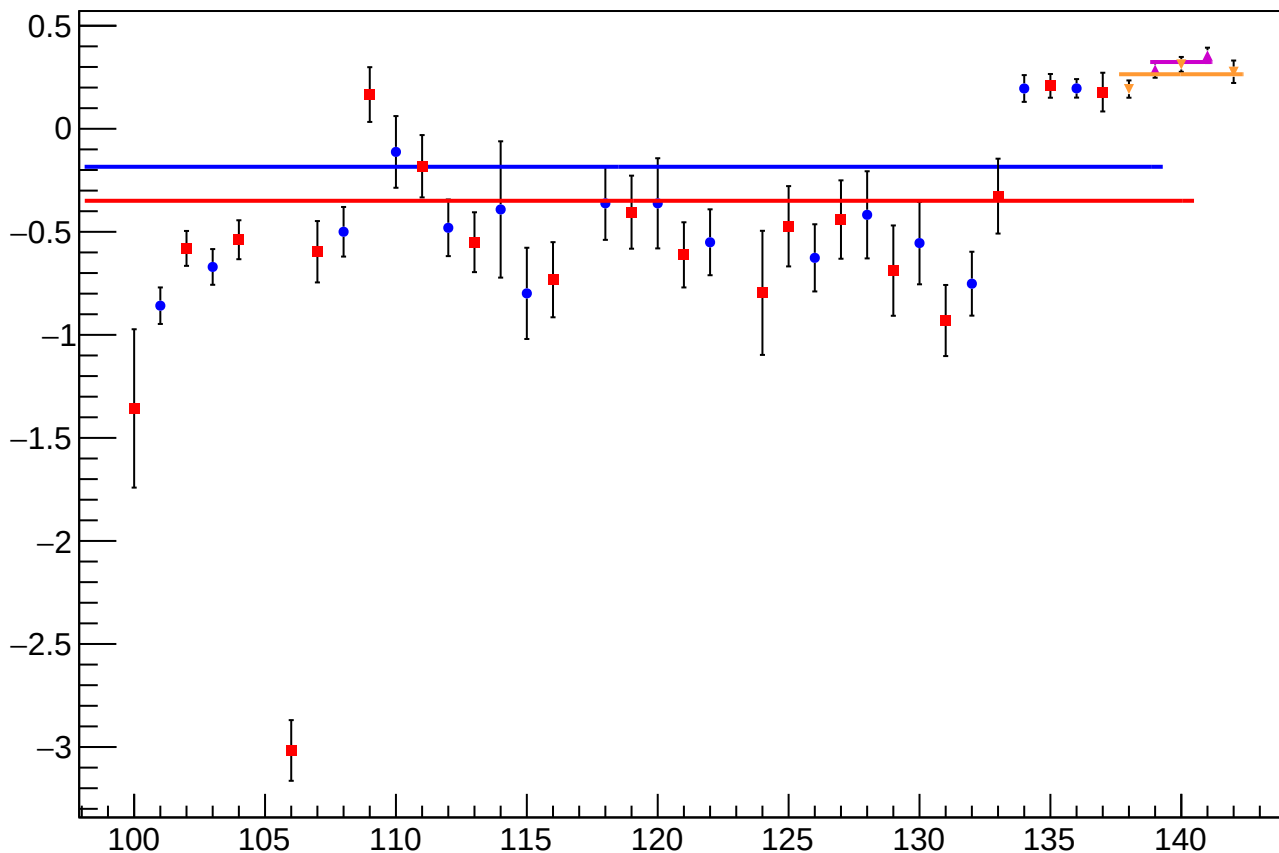
Right: -6.743 ± 0.370 χ^2/NDF : 682.6/34

In: -6.774 ± 0.413 χ^2/NDF : 497.3/17

Out: -10.788 ± 0.382 χ^2/NDF : 475.3/21

All: -8.938 ± 0.280 χ^2/NDF : 1023.5/39

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.184 ± 0.027 χ^2/NDF : 247.3/15

Left Out: 0.265 ± 0.024 χ^2/NDF : 4.8/2

Right Out: -0.349 ± 0.029 χ^2/NDF : 516.5/18

Left In: 0.324 ± 0.027 χ^2/NDF : 1.6/1

Left: 0.291 ± 0.018 χ^2/NDF : 9.0/4

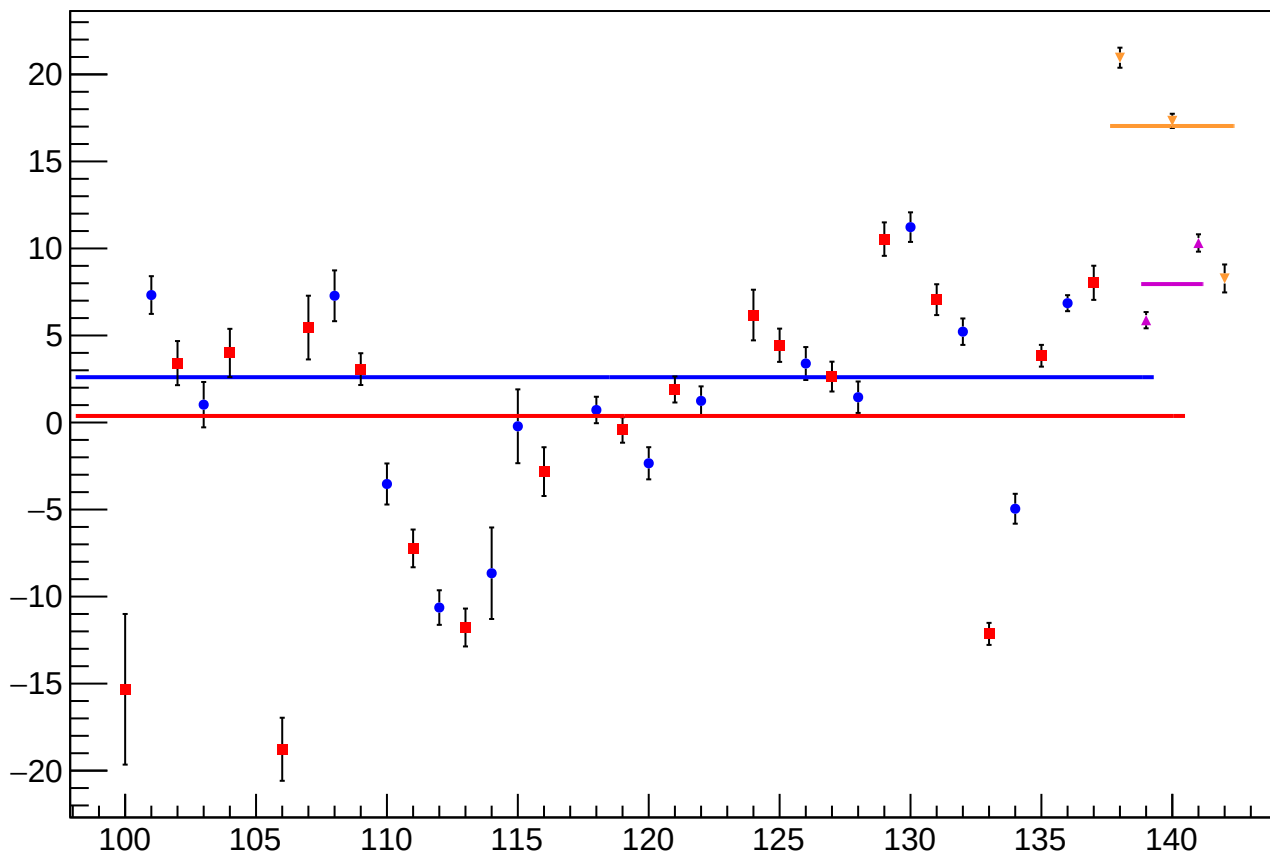
Right: -0.259 ± 0.020 χ^2/NDF : 781.1/34

In: 0.066 ± 0.019 χ^2/NDF : 426.7/17

Out: 0.013 ± 0.019 χ^2/NDF : 780.1/21

All: 0.039 ± 0.013 χ^2/NDF : 1210.8/39

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.604 ± 0.224 $\chi^2/\text{NDF}: 573.1/15$

Left Out: 17.036 ± 0.308 $\chi^2/\text{NDF}: 165.6/2$

Right Out: 0.377 ± 0.222 $\chi^2/\text{NDF}: 1030.9/18$

Left In: 7.954 ± 0.341 $\chi^2/\text{NDF}: 42.2/1$

Left: 12.954 ± 0.228 $\chi^2/\text{NDF}: 599.0/4$

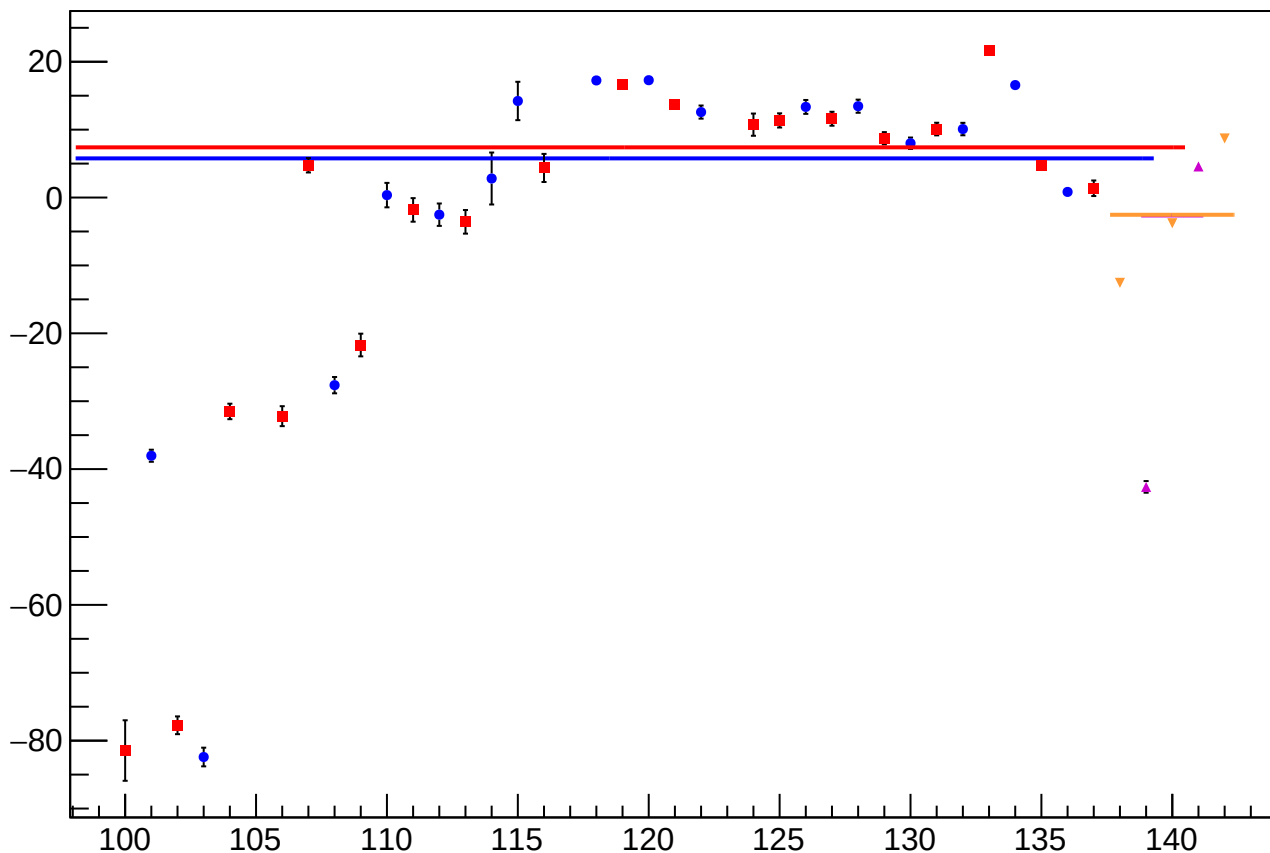
Right: 1.481 ± 0.158 $\chi^2/\text{NDF}: 1653.8/34$

In: 4.219 ± 0.187 $\chi^2/\text{NDF}: 787.4/17$

Out: 6.085 ± 0.180 $\chi^2/\text{NDF}: 3121.8/21$

All: 5.188 ± 0.130 $\chi^2/\text{NDF}: 3960.8/39$

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.768+/-0.210 χ^2/NDF : 8933.8/15

Left Out: -2.539+/-0.258 χ^2/NDF : 762.1/2

Right Out: 7.393+/-0.209 χ^2/NDF : 8390.6/18

Left In: -2.641+/-0.336 χ^2/NDF : 2560.4/1

Left: -2.577+/-0.204 χ^2/NDF : 3322.6/4

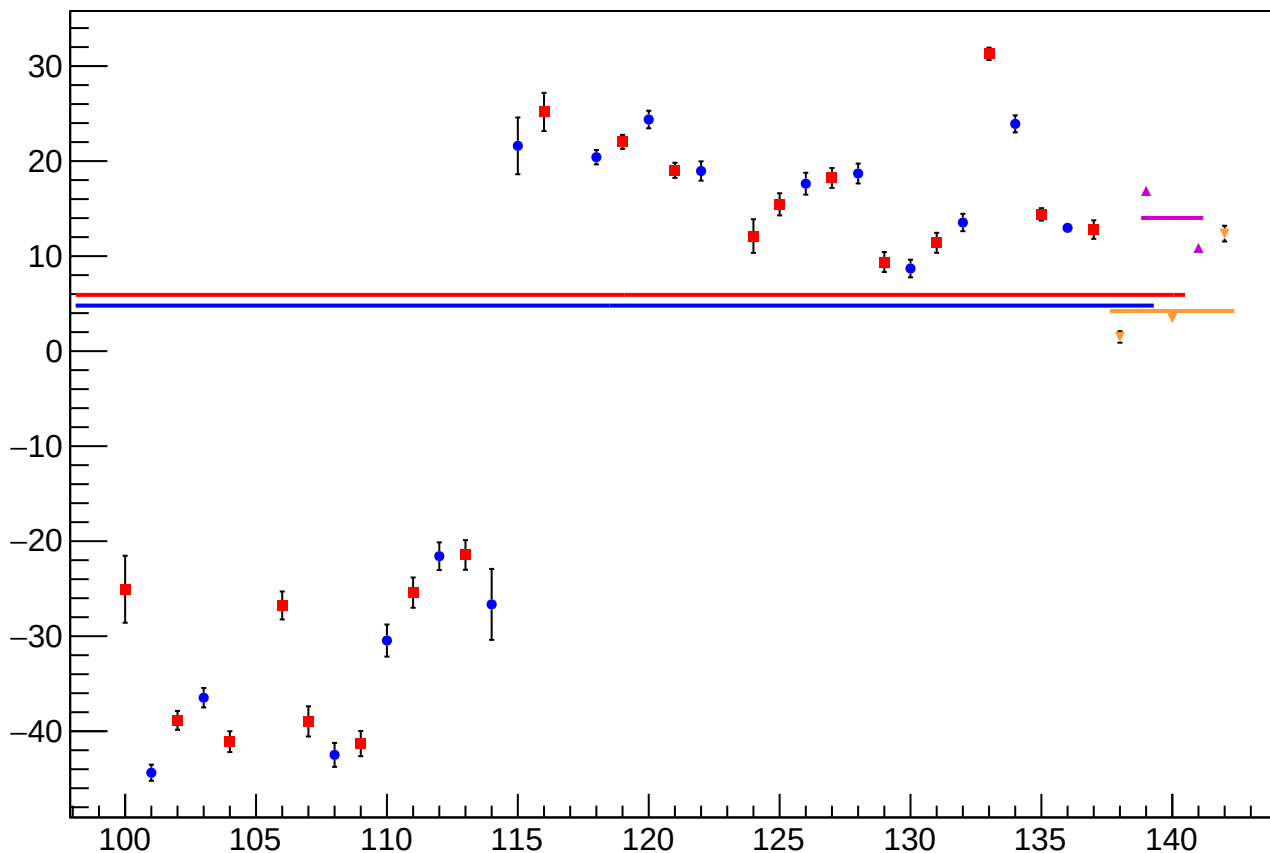
Right: 6.585+/-0.148 χ^2/NDF : 17354.6/34

In: 3.408+/-0.178 χ^2/NDF : 11945.1/17

Out: 3.457+/-0.162 χ^2/NDF : 10049.8/21

All: 3.435+/-0.120 χ^2/NDF : 21995.0/39

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.794+/-0.237 χ^2/NDF : 9496.9/15

Left Out: 4.221+/-0.318 χ^2/NDF :120.5/2

Right Out: 5.921+/-0.240 χ^2/NDF : 10059.4/18

Left In: 14.019+/-0.352 χ^2/NDF :72.5/1

Left: 8.626+/-0.236 χ^2/NDF : 619.7/4

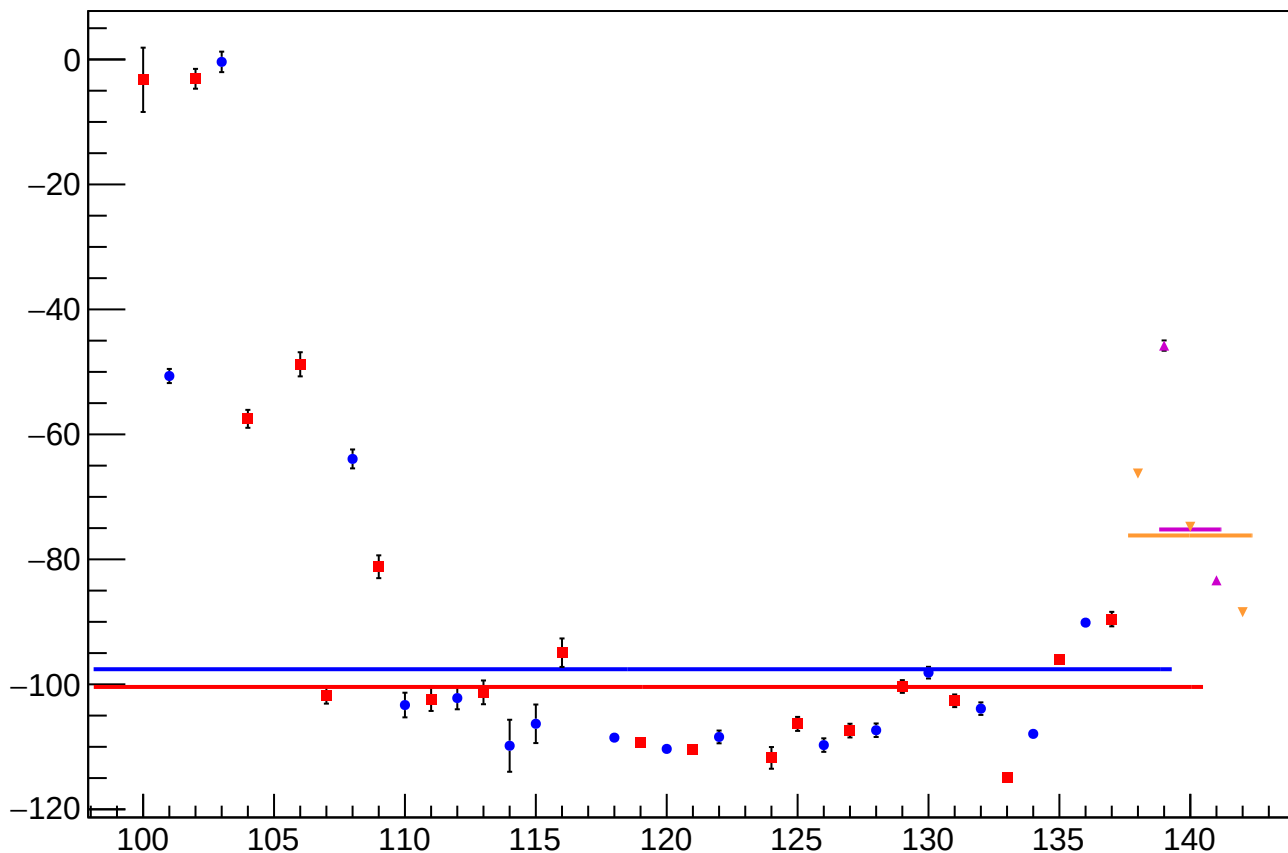
Right: 5.352+/-0.169 χ^2/NDF : 19567.4/34

In: 7.679+/-0.197 χ^2/NDF :10041.6/17

Out: 5.305+/-0.192 χ^2/NDF :10198.1/21

All: 6.460+/-0.137 χ^2/NDF : 20314.5/39

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Left: -75.804 ± 0.239 $\chi^2/\text{NDF}: 2243.0/4$

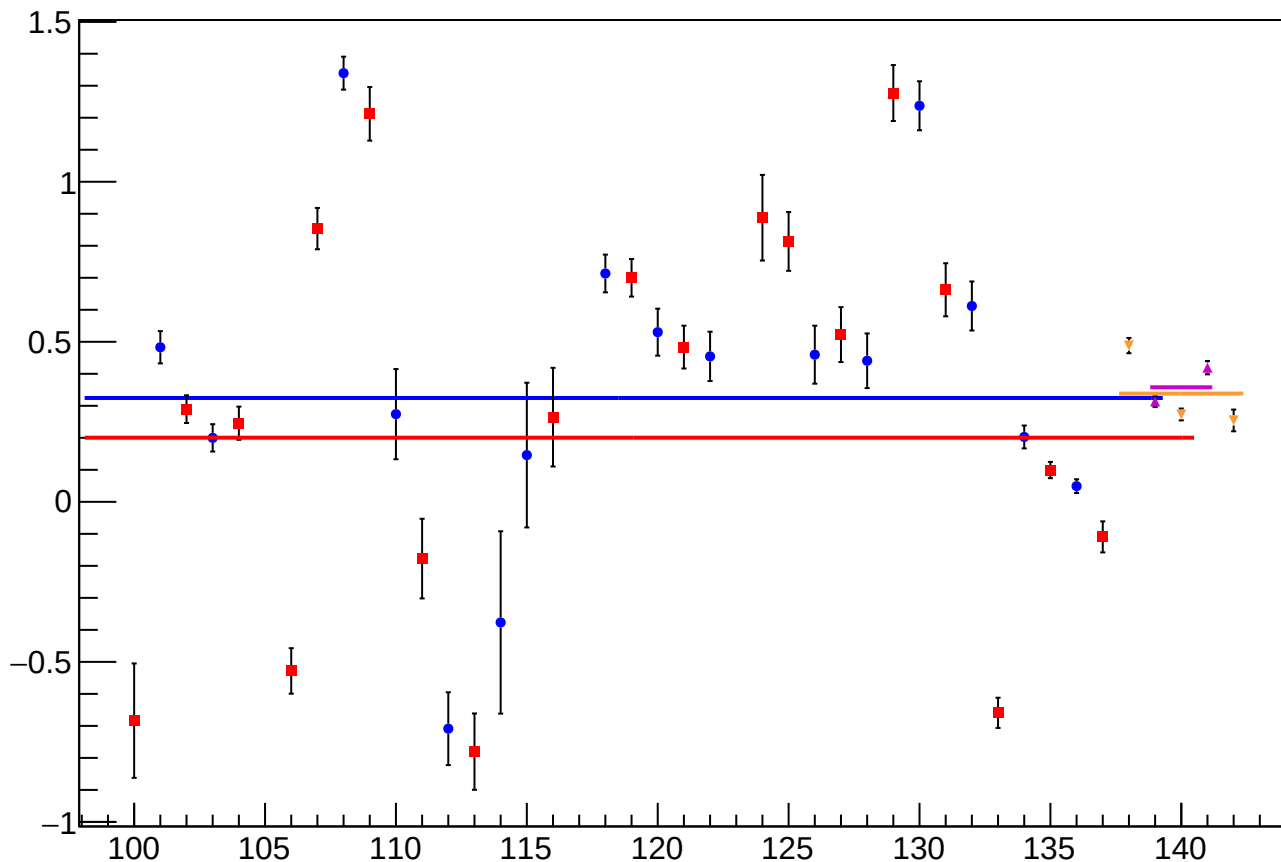
Right: -99.004 ± 0.171 $\chi^2/\text{NDF}: 14329.0/34$

In: -91.232 ± 0.205 $\chi^2/\text{NDF}: 11200.1/17$

Out: -91.124 ± 0.189 $\chi^2/\text{NDF}: 11609.8/21$

All: -91.174 ± 0.139 $\chi^2/\text{NDF}: 22810.0/39$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.324 ± 0.013 χ^2/NDF : 886.5/15

Left Out: 0.338 ± 0.013 χ^2/NDF : 58.0/2

Right Out: 0.200 ± 0.014 χ^2/NDF : 1206.3/18

Left In: 0.358 ± 0.013 χ^2/NDF : 14.8/1

Left: 0.348 ± 0.010 χ^2/NDF : 73.9/4

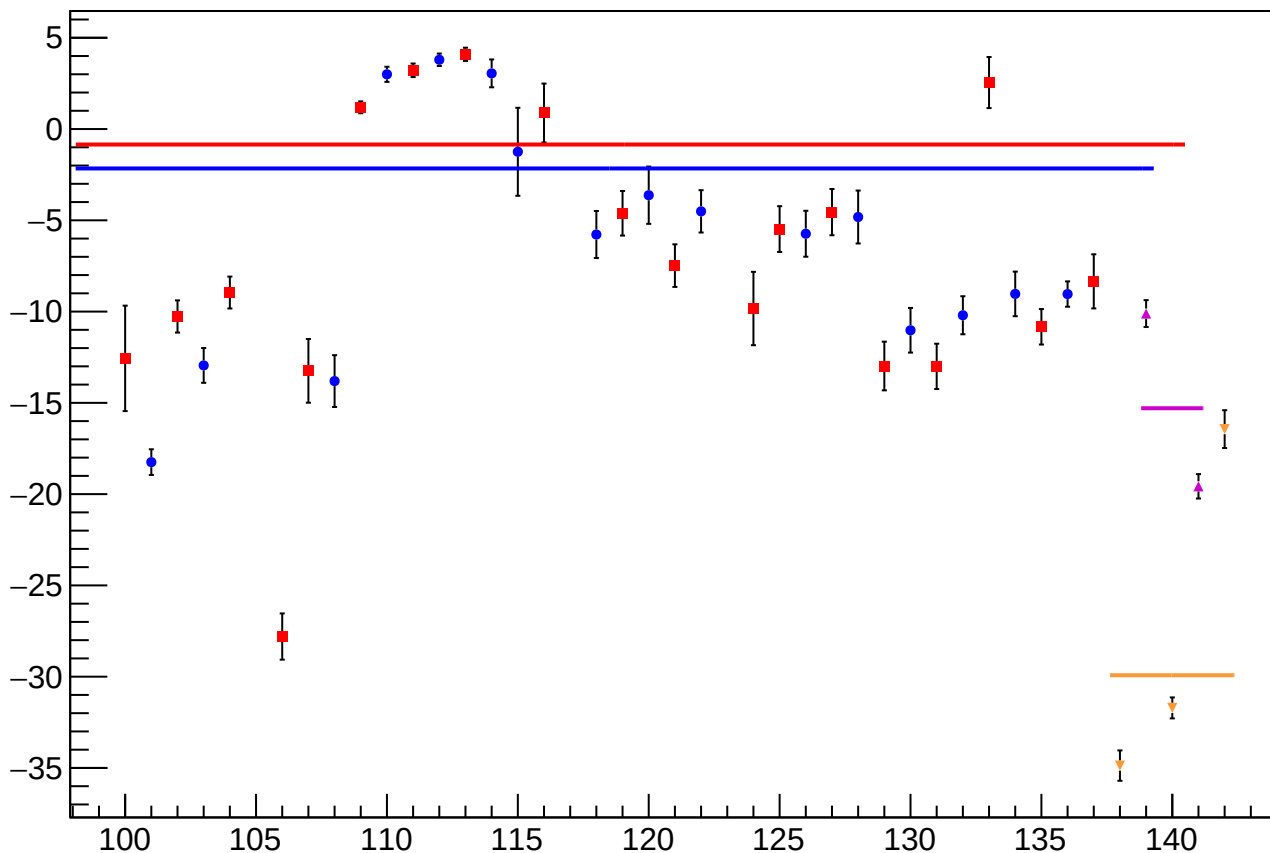
Right: 0.265 ± 0.010 χ^2/NDF : 2134.6/34

In: 0.341 ± 0.009 χ^2/NDF : 904.5/17

Out: 0.271 ± 0.010 χ^2/NDF : 1315.3/21

All: 0.307 ± 0.007 χ^2/NDF : 2246.3/39

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.159 ± 0.192 χ^2/NDF : 1491.0/15

Left Out: -29.922 ± 0.430 χ^2/NDF : 214.7/2

Right Out: -0.848 ± 0.170 χ^2/NDF : 1465.4/18

Left In: -15.295 ± 0.495 χ^2/NDF : 90.6/1

Left: -23.631 ± 0.325 χ^2/NDF : 803.3/4

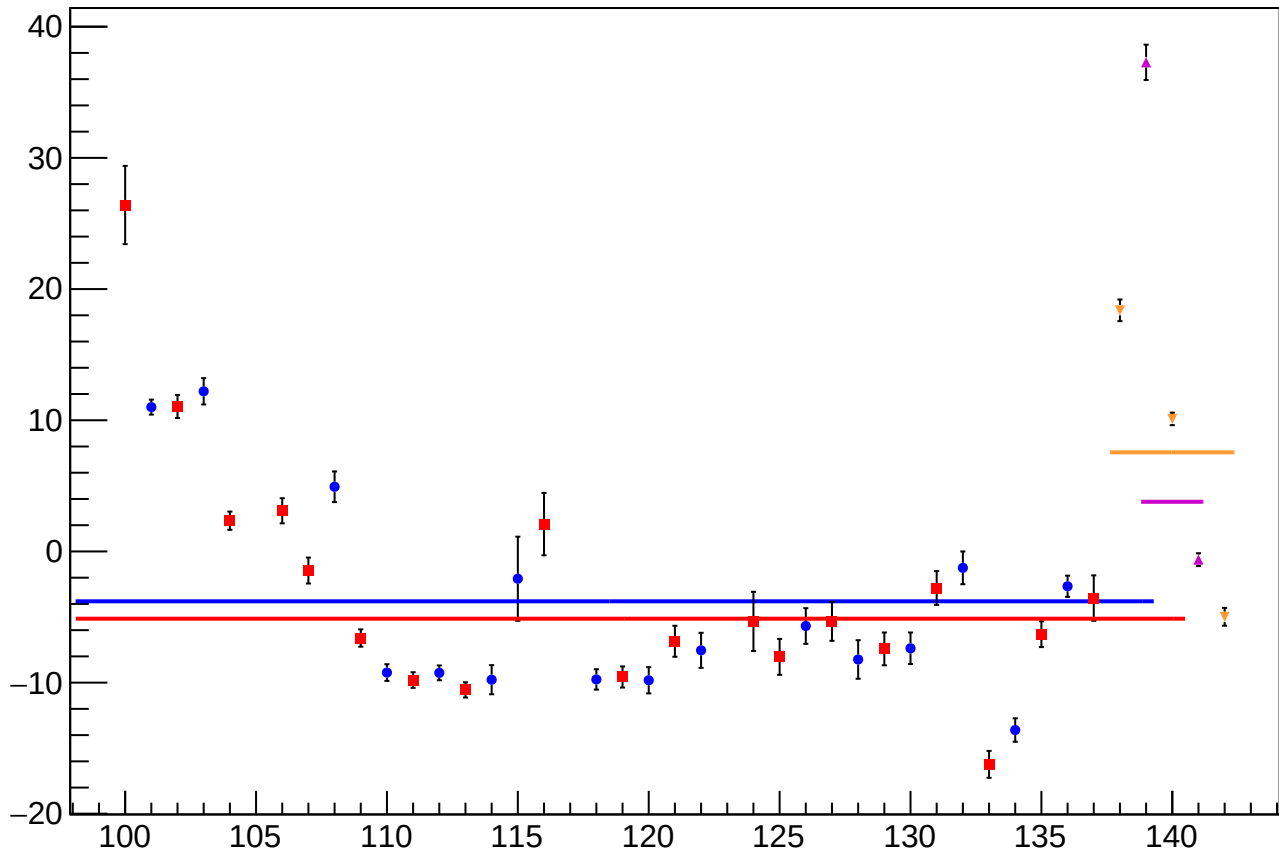
Right: -1.426 ± 0.127 χ^2/NDF : 2982.5/34

In: -3.878 ± 0.179 χ^2/NDF : 2194.1/17

Out: -4.796 ± 0.158 χ^2/NDF : 5632.9/21

All: -4.393 ± 0.119 χ^2/NDF : 7841.8/39

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.800 ± 0.226 $\chi^2/\text{NDF}: 1425.5/15$

Left Out: 7.555 ± 0.353 $\chi^2/\text{NDF}: 539.7/2$

Right Out: -5.126 ± 0.219 $\chi^2/\text{NDF}: 980.6/18$

Left In: 3.786 ± 0.459 $\chi^2/\text{NDF}: 700.8/1$

Left: 6.153 ± 0.280 $\chi^2/\text{NDF}: 1282.8/4$

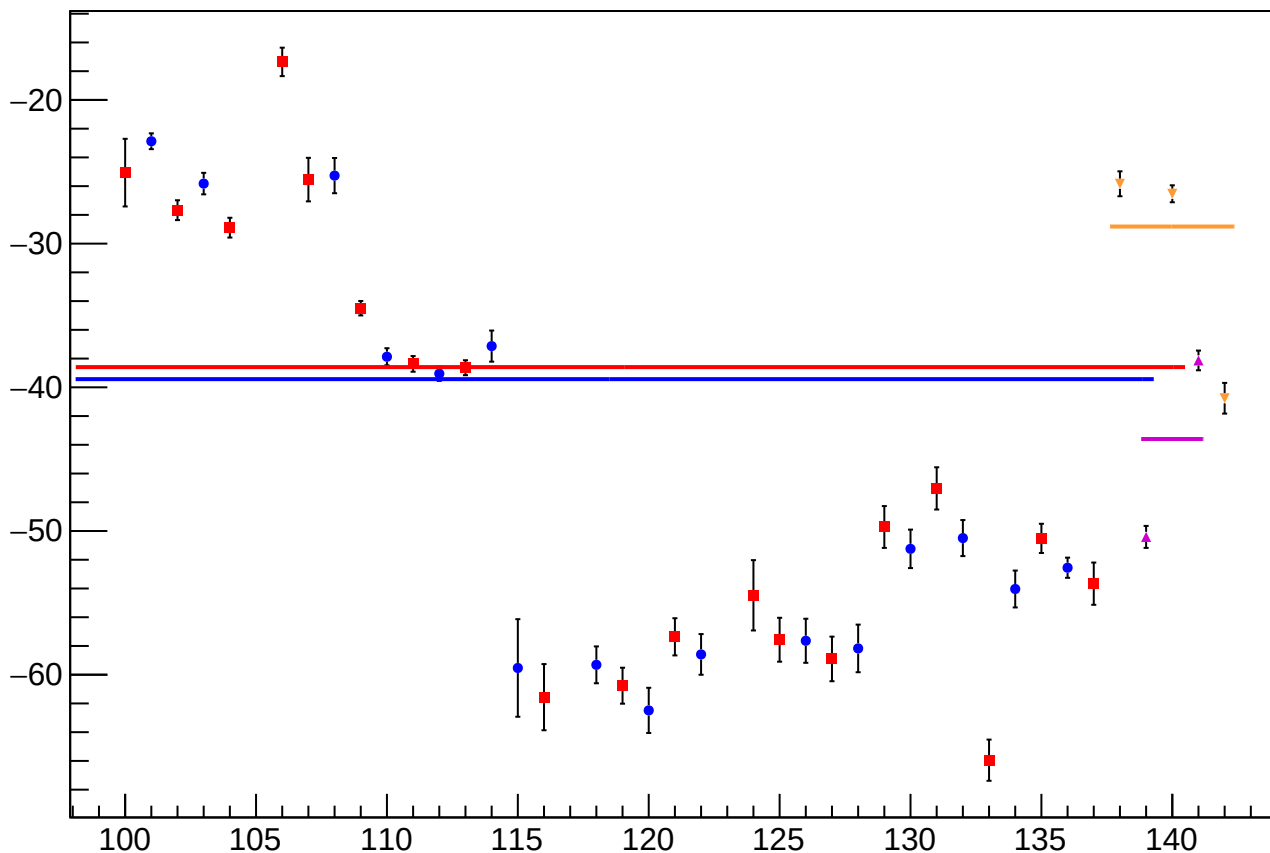
Right: -4.484 ± 0.157 $\chi^2/\text{NDF}: 2423.8/34$

In: -2.324 ± 0.203 $\chi^2/\text{NDF}: 2346.3/17$

Out: -1.612 ± 0.186 $\chi^2/\text{NDF}: 2451.4/21$

All: -1.938 ± 0.137 $\chi^2/\text{NDF}: 4804.4/39$

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -39.431 ± 0.225 $\chi^2/\text{NDF}: 2958.1/15$

Left Out: -28.810 ± 0.444 $\chi^2/\text{NDF}: 151.9/2$

Right Out: -38.593 ± 0.213 $\chi^2/\text{NDF}: 2772.1/18$

Left In: -43.598 ± 0.511 $\chi^2/\text{NDF}: 142.8/1$

Left: -35.175 ± 0.335 $\chi^2/\text{NDF}: 772.0/4$

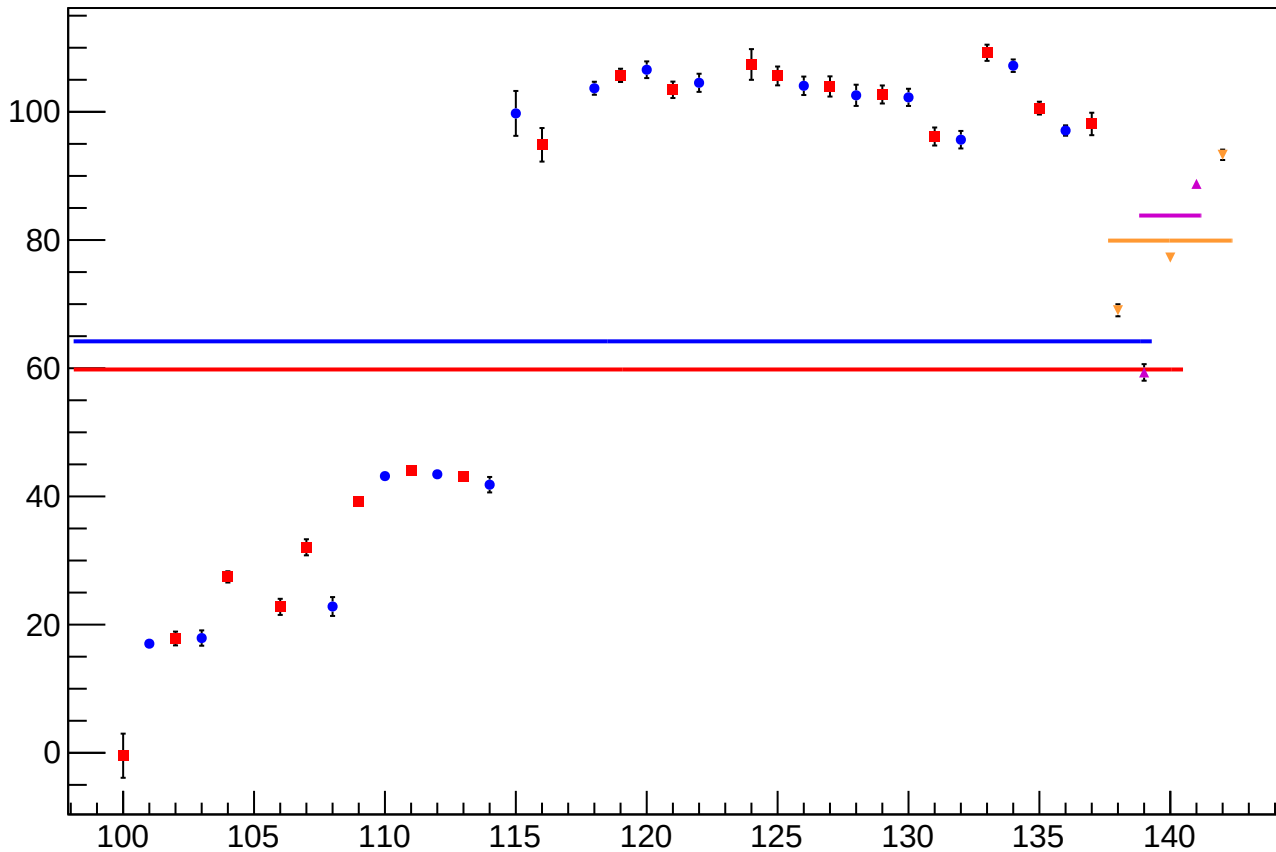
Right: -38.987 ± 0.155 $\chi^2/\text{NDF}: 5737.6/34$

In: -40.111 ± 0.206 $\chi^2/\text{NDF}: 3156.6/17$

Out: -36.769 ± 0.192 $\chi^2/\text{NDF}: 3318.9/21$

All: -38.318 ± 0.140 $\chi^2/\text{NDF}: 6616.3/39$

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 64.196 $\pm$ 0.258 χ^2 /NDF: 18596.4/15

Left Out: 79.912 $\pm$ 0.420 χ^2 /NDF: 425.5/2

Right Out: 59.805 $\pm$ 0.249 χ^2 /NDF: 17431.2/18

Left In: 83.821 $\pm$ 0.530 χ^2 /NDF: 431.1/1

Left: 81.420 $\pm$ 0.329 χ^2 /NDF: 890.1/4

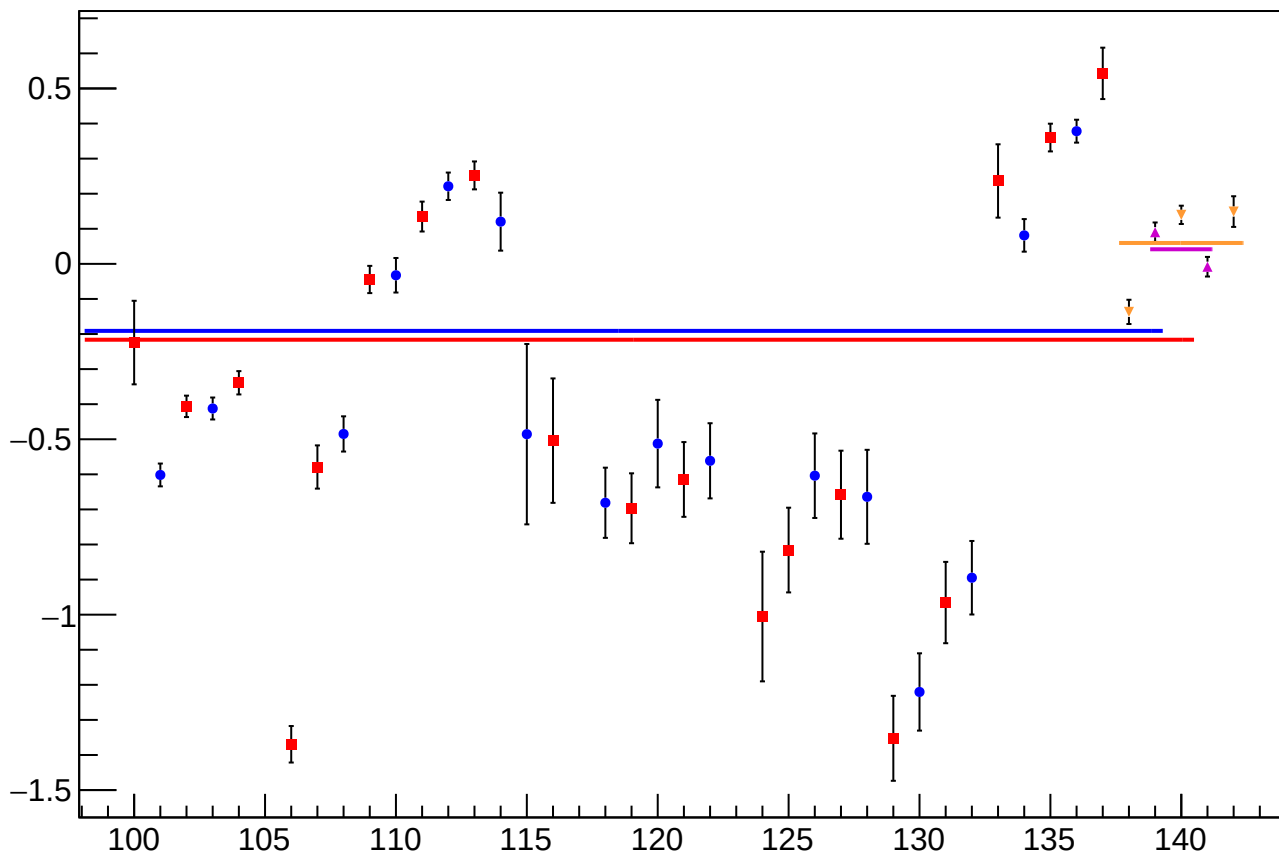
Right: 61.924 $\pm$ 0.179 χ^2 /NDF: 36178.0/34

In: 67.946 $\pm$ 0.232 χ^2 /NDF: 20137.5/17

Out: 65.029 $\pm$ 0.214 χ^2 /NDF: 19554.4/21

All: 66.373 $\pm$ 0.157 χ^2 /NDF: 39777.5/39

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.191 ± 0.013 χ^2/NDF : 918.3/15

Left Out: 0.060 ± 0.019 χ^2/NDF : 45.9/2

Right Out: -0.216 ± 0.013 χ^2/NDF : 1368.1/18

Left In: 0.042 ± 0.020 χ^2/NDF : 6.2/1

Left: 0.051 ± 0.014 χ^2/NDF : 52.6/4

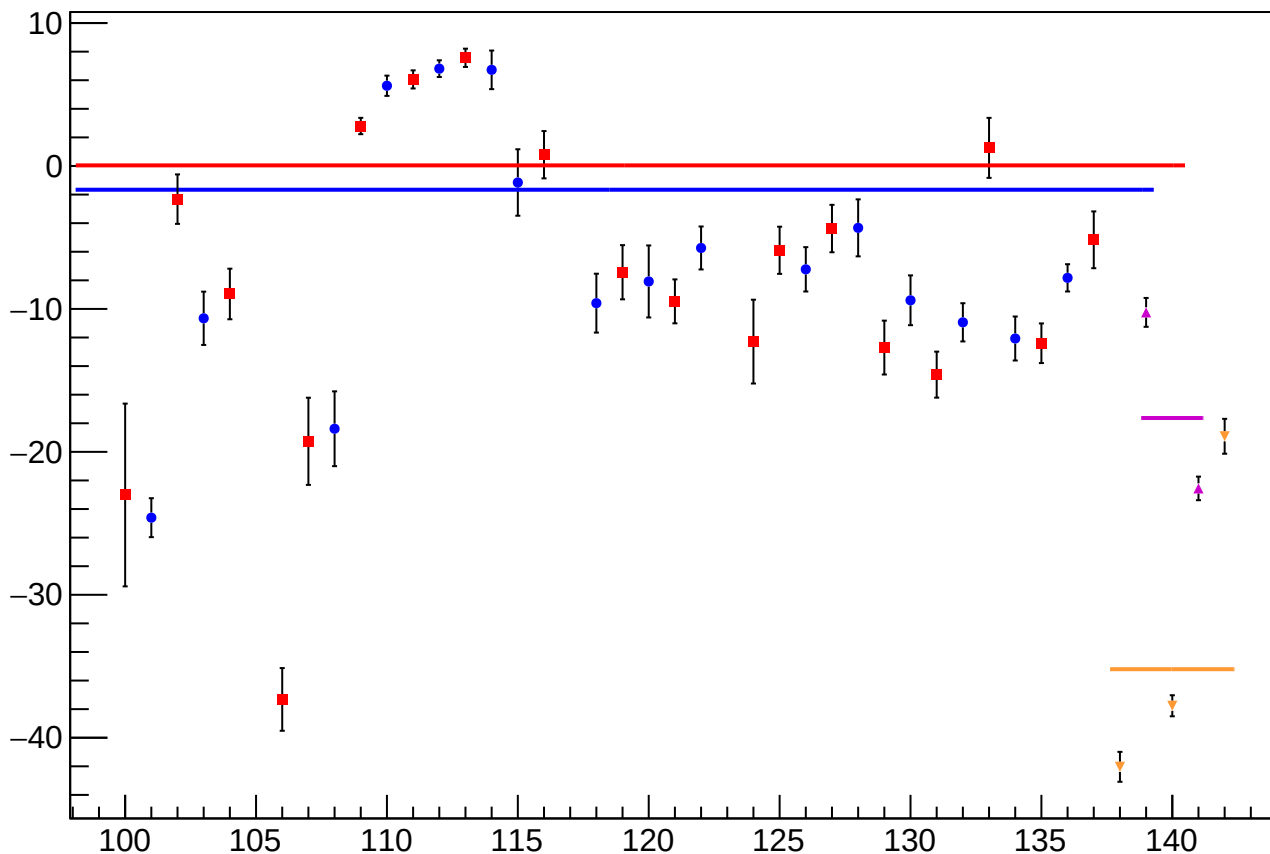
Right: -0.204 ± 0.009 χ^2/NDF : 2288.3/34

In: -0.117 ± 0.011 χ^2/NDF : 1019.8/17

Out: -0.128 ± 0.011 χ^2/NDF : 1560.0/21

All: -0.123 ± 0.008 χ^2/NDF : 2580.3/39

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.661 ± 0.308 $\chi^2/\text{NDF}: 900.3/15$

Left Out: -35.206 ± 0.540 $\chi^2/\text{NDF}: 232.9/2$

Right Out: 0.042 ± 0.282 $\chi^2/\text{NDF}: 931.1/18$

Left In: -17.631 ± 0.639 $\chi^2/\text{NDF}: 89.1/1$

Left: -27.881 ± 0.413 $\chi^2/\text{NDF}: 763.2/4$

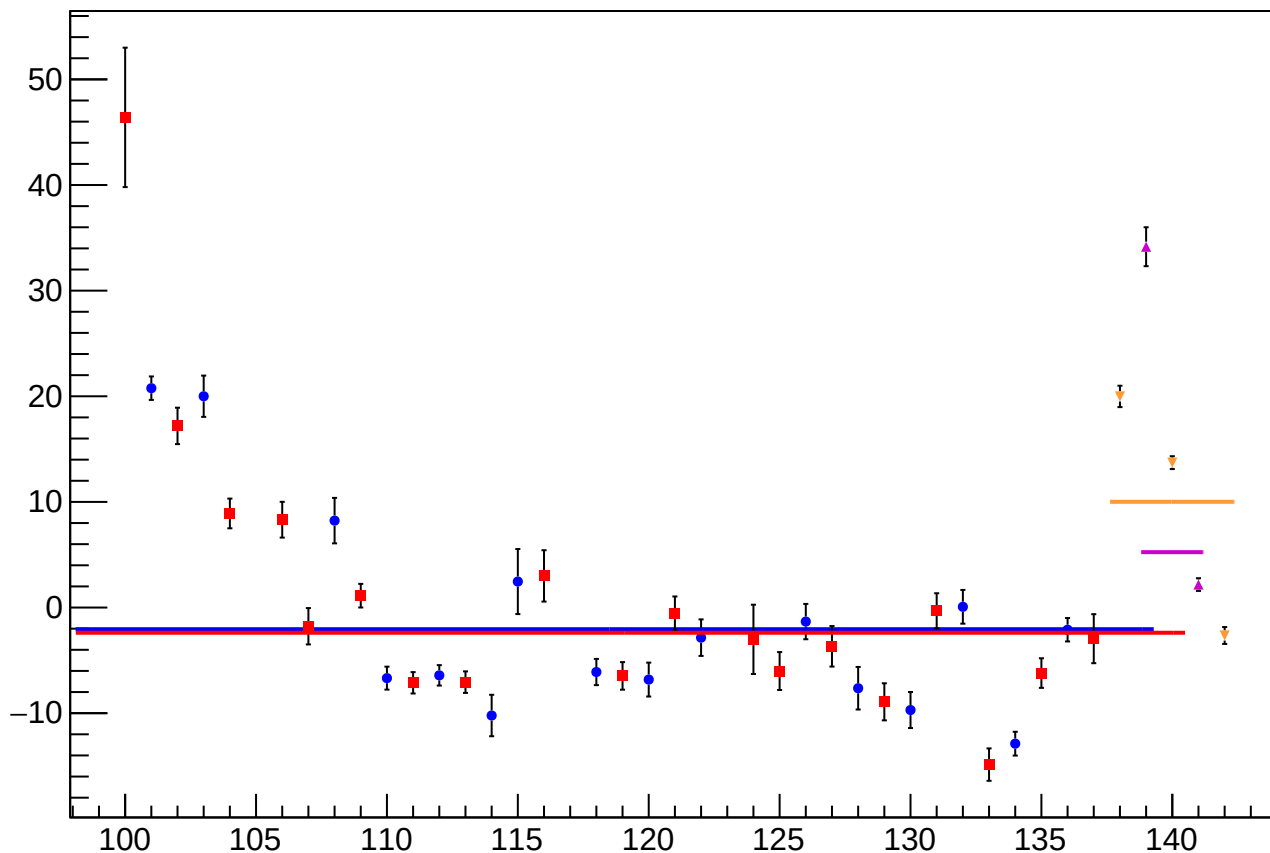
Right: -0.734 ± 0.208 $\chi^2/\text{NDF}: 1848.1/34$

In: -4.673 ± 0.278 $\chi^2/\text{NDF}: 1496.2/17$

Out: -7.502 ± 0.250 $\chi^2/\text{NDF}: 4510.2/21$

All: -6.235 ± 0.186 $\chi^2/\text{NDF}: 6063.8/39$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.050 ± 0.356 χ^2/NDF : 771.9/15

Left Out: 10.012 ± 0.437 χ^2/NDF : 384.5/2

Right Out: -2.386 ± 0.355 χ^2/NDF : 450.9/18

Left In: 5.244 ± 0.571 χ^2/NDF : 272.4/1

Left: 8.252 ± 0.347 χ^2/NDF : 700.9/4

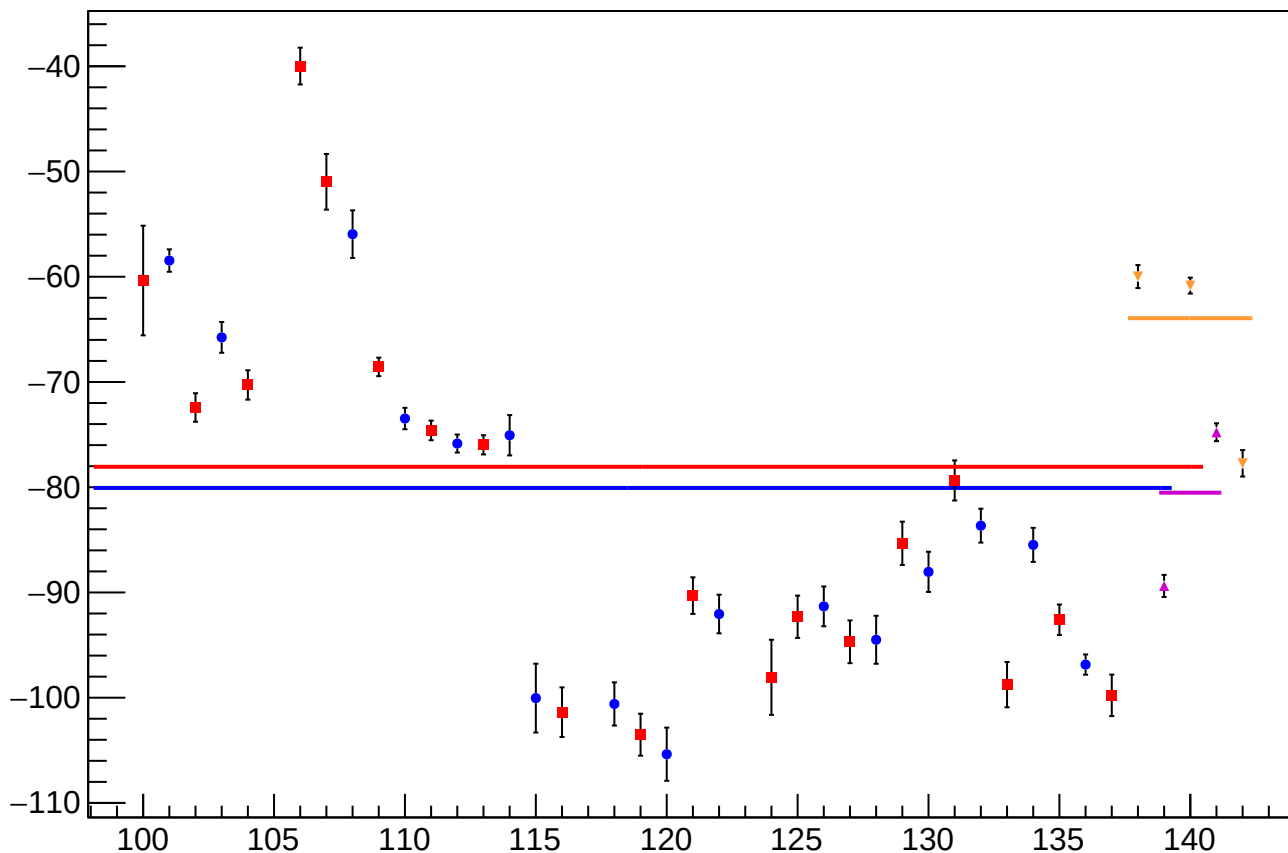
Right: -2.218 ± 0.252 χ^2/NDF : 1223.3/34

In: -0.006 ± 0.302 χ^2/NDF : 1161.8/17

Out: 2.553 ± 0.276 χ^2/NDF : 1320.5/21

All: 1.391 ± 0.204 χ^2/NDF : 2521.5/39

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -80.069 ± 0.364 χ^2/NDF : 1387.2/15

Left Out: -63.938 ± 0.558 χ^2/NDF : 150.0/2

Right Out: -78.059 ± 0.354 χ^2/NDF : 1561.2/18

Left In: -80.519 ± 0.659 χ^2/NDF : 117.1/1

Left: -70.856 ± 0.426 χ^2/NDF : 635.6/4

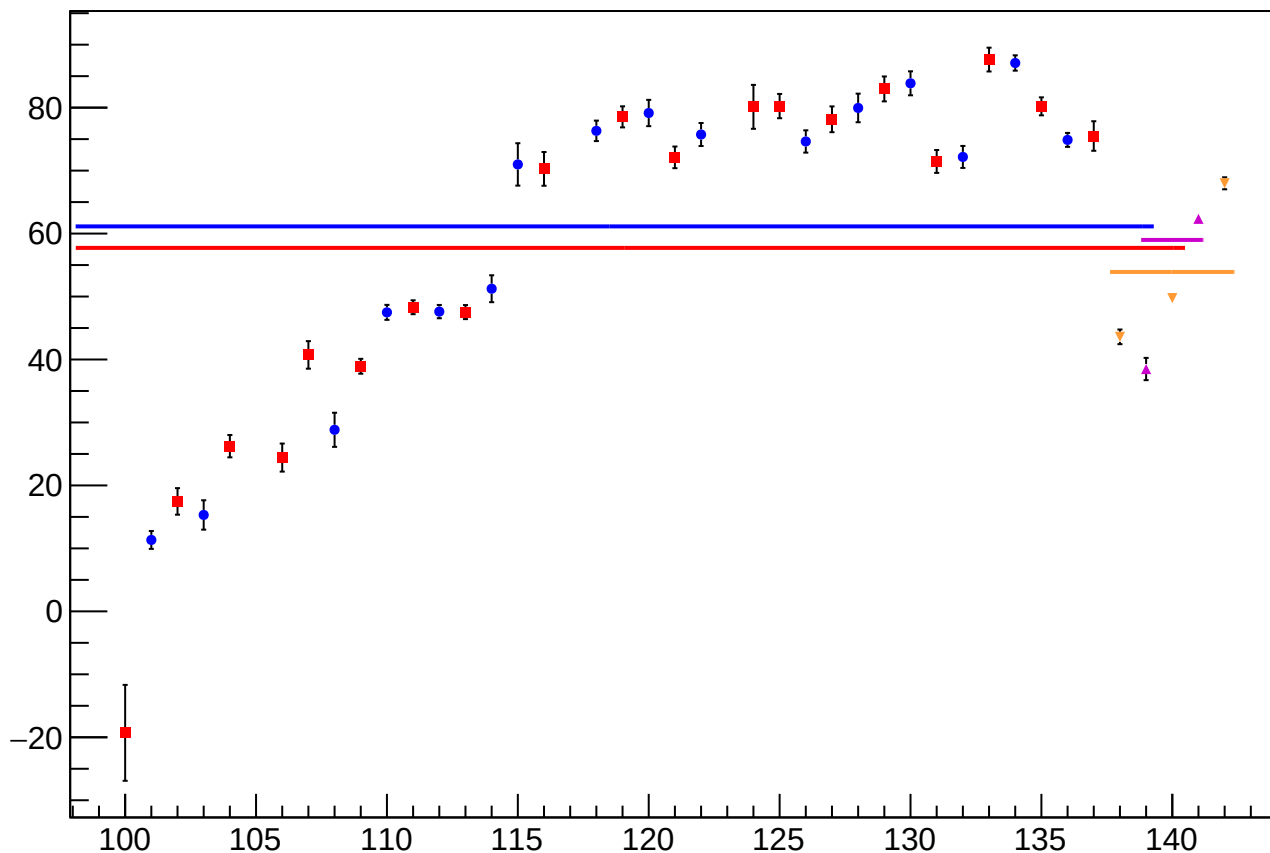
Right: -79.033 ± 0.254 χ^2/NDF : 2964.1/34

In: -80.174 ± 0.319 χ^2/NDF : 1504.6/17

Out: -74.013 ± 0.299 χ^2/NDF : 2168.3/21

All: -76.891 ± 0.218 χ^2/NDF : 3871.7/39

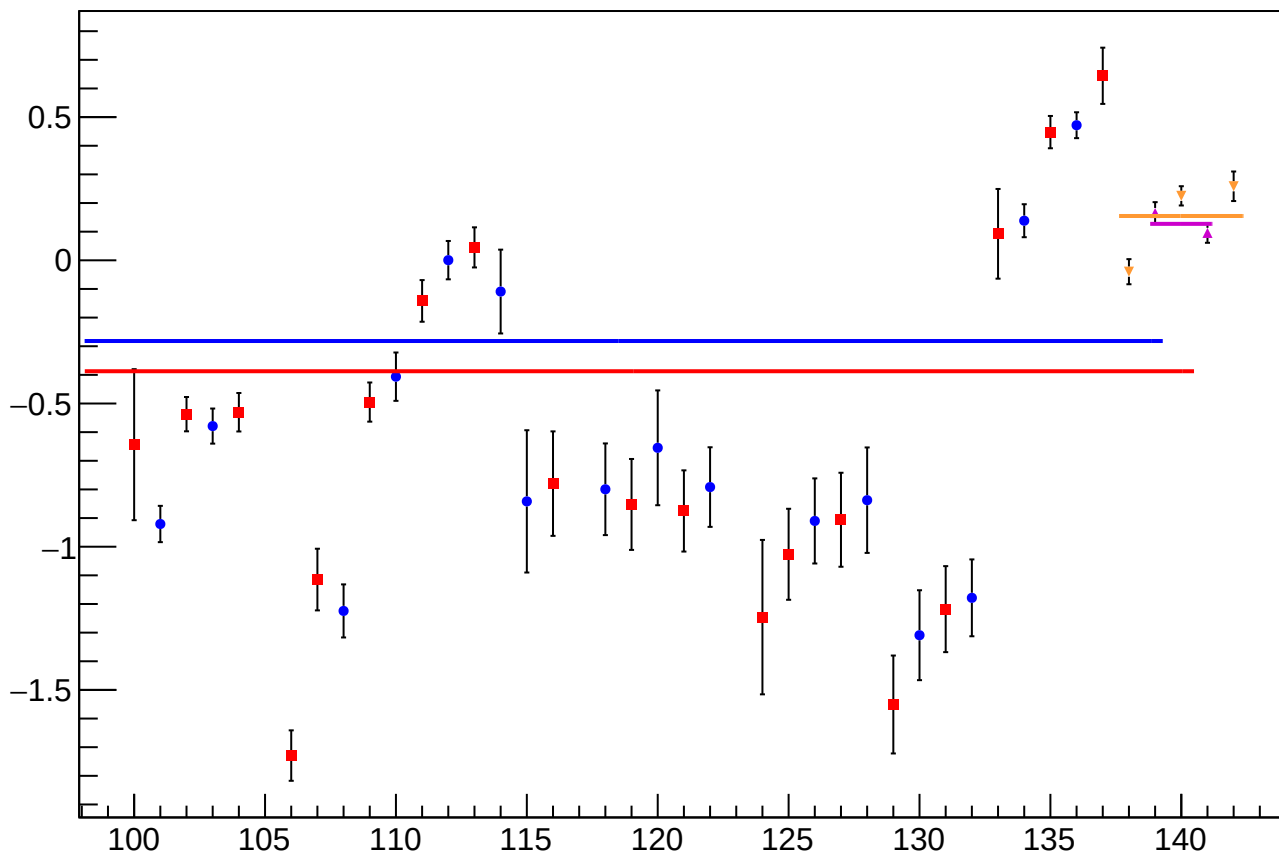
reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 61.139 $\pm$ 0.401 χ^2/NDF : 3229.3/15
 Left Out: 53.905 $\pm$ 0.520 χ^2/NDF :327.1/2
 Right Out: 57.728 $\pm$ 0.400 χ^2/NDF : 2775.6/18
 Left In: 58.990 $\pm$ 0.663 χ^2/NDF :156.4/1

Left: 55.842 $\pm$ 0.409 χ^2/NDF : 519.9/4
 Right: 59.431 $\pm$ 0.283 χ^2/NDF : 6041.2/34
 In: 60.564 $\pm$ 0.343 χ^2/NDF :3393.3/17
 Out: 56.307 $\pm$ 0.317 χ^2/NDF :3136.7/21
 All: 58.270 $\pm$ 0.233 χ^2/NDF : 6613.1/39

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.282+/-0.022 χ^2/NDF : 728.2/15

Left Out: 0.155+/-0.024 χ^2/NDF : 28.1/2

Right Out: -0.387+/-0.022 χ^2/NDF : 818.7/18

Left In: 0.127+/-0.026 χ^2/NDF : 1.8/1

Left: 0.142+/-0.017 χ^2/NDF : 30.5/4

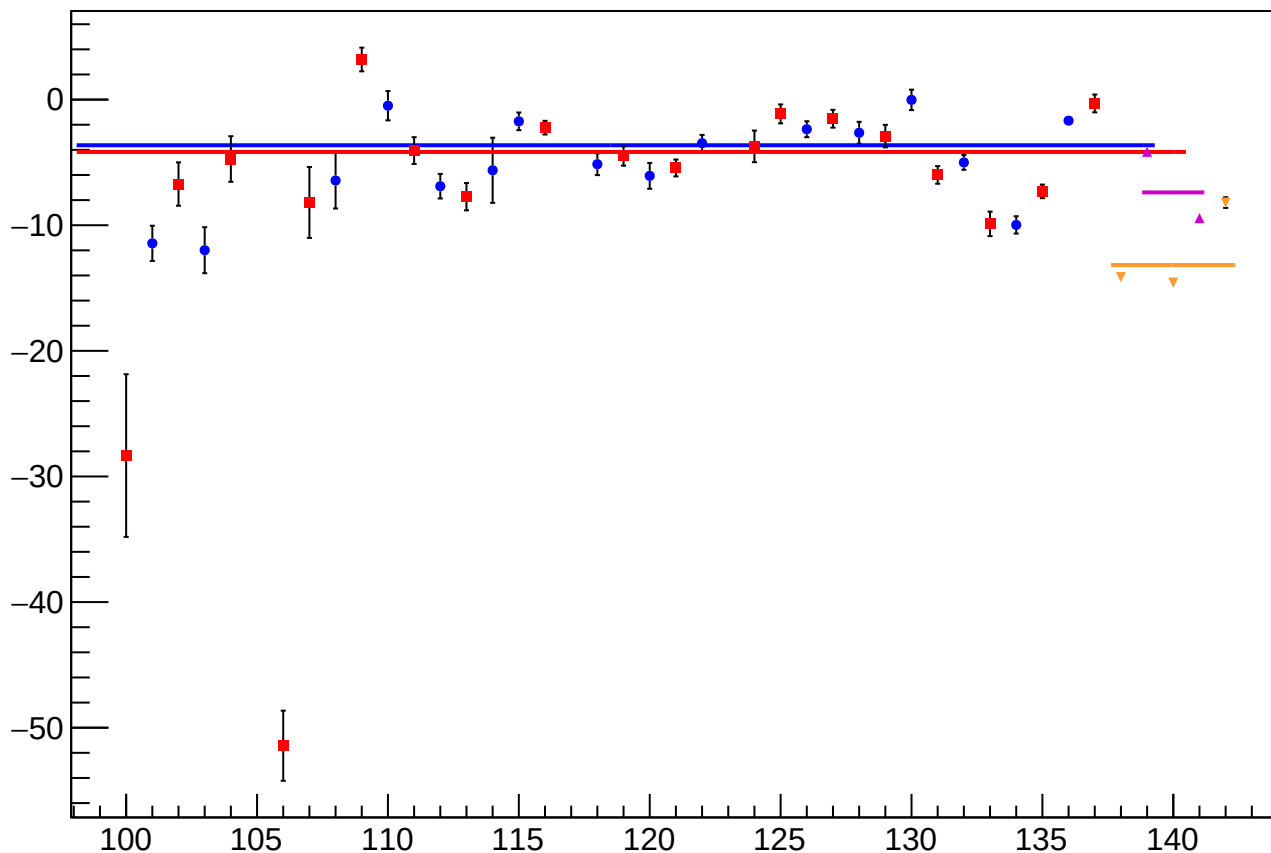
Right: -0.334+/-0.015 χ^2/NDF : 1558.7/34

In: -0.111+/-0.017 χ^2/NDF : 879.3/17

Out: -0.138+/-0.016 χ^2/NDF : 1128.8/21

All: -0.125+/-0.012 χ^2/NDF : 2009.4/39

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.634 ± 0.189 χ^2/NDF : 234.8/15

Left Out: -13.168 ± 0.190 χ^2/NDF : 171.4/2

Right Out: -4.167 ± 0.199 χ^2/NDF : 529.7/18

Left In: -7.388 ± 0.229 χ^2/NDF : 125.8/1

Left: -10.811 ± 0.147 χ^2/NDF : 673.0/4

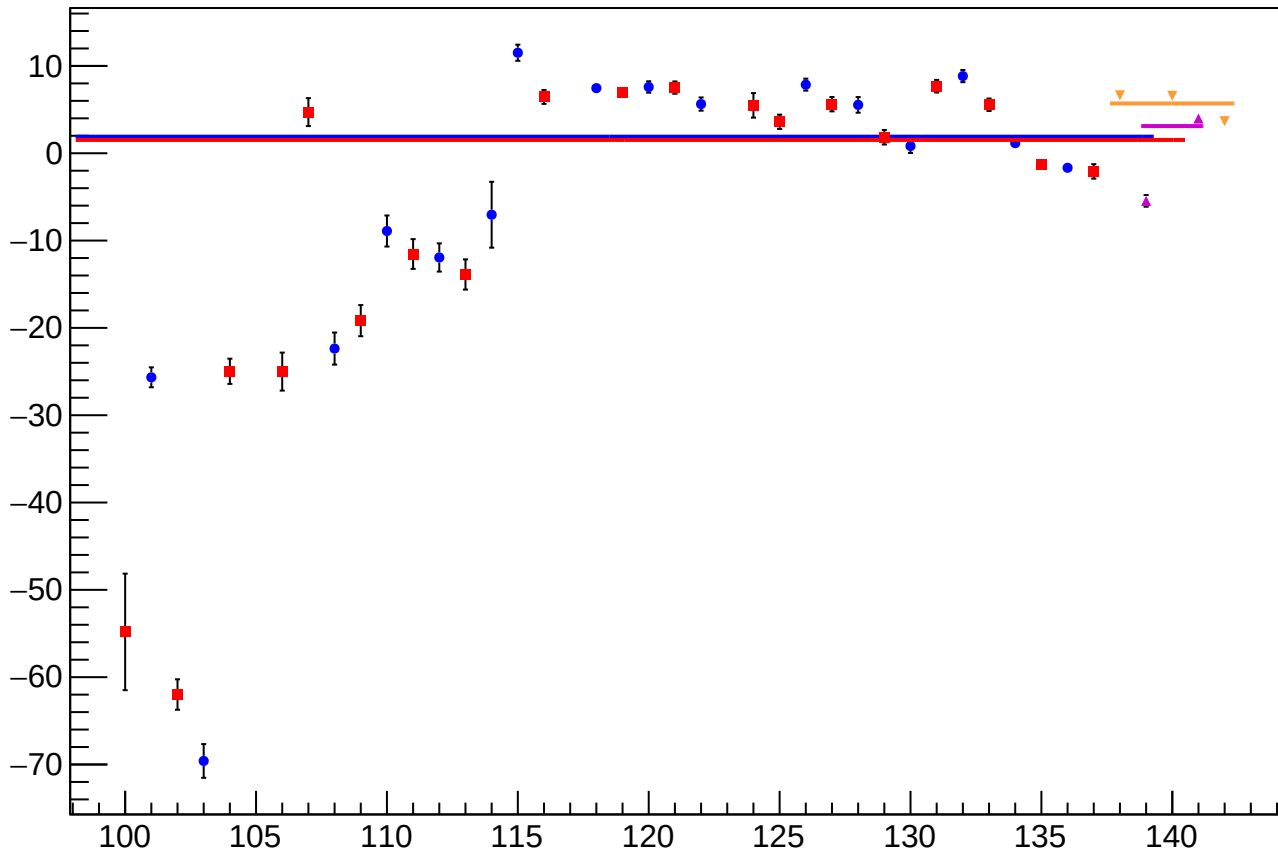
Right: -3.886 ± 0.137 χ^2/NDF : 768.2/34

In: -5.152 ± 0.146 χ^2/NDF : 520.0/17

Out: -8.876 ± 0.138 χ^2/NDF : 1766.8/21

All: -7.121 ± 0.100 χ^2/NDF : 2631.4/39

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.898+/-0.189 χ^2/NDF : 2838.2/15

Left Out: 5.701+/-0.154 χ^2/NDF : 76.5/2

Right Out: 1.525+/-0.208 χ^2/NDF : 2559.8/18

Left In: 3.112+/-0.203 χ^2/NDF : 180.4/1

Left: 4.758+/-0.122 χ^2/NDF : 360.5/4

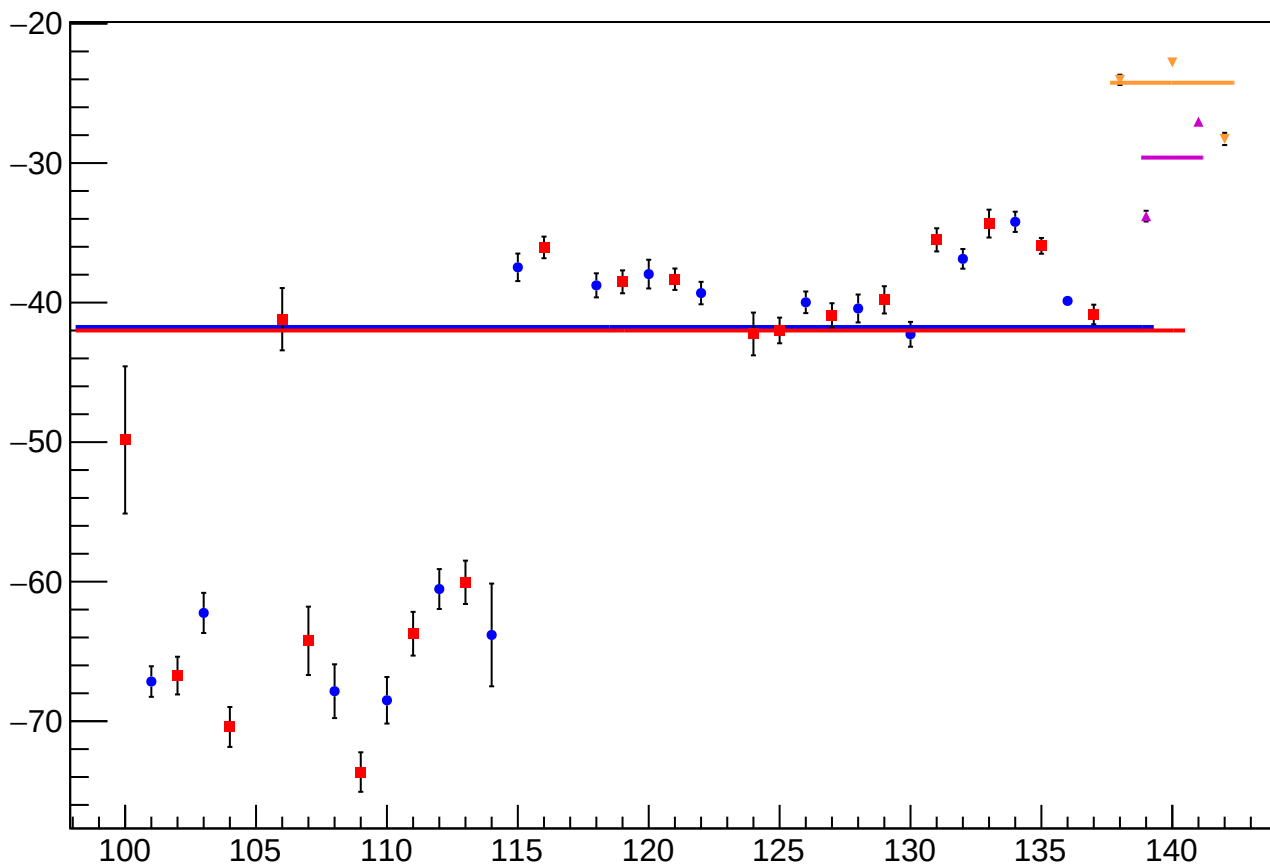
Right: 1.730+/-0.140 χ^2/NDF : 5399.7/34

In: 2.462+/-0.138 χ^2/NDF : 3037.8/17

Out: 4.230+/-0.124 χ^2/NDF : 2896.7/21

All: 3.445+/-0.092 χ^2/NDF : 6025.4/39

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -41.751+/-0.208 χ^2/NDF : 1633.9/15

Left Out: -24.244+/-0.197 χ^2/NDF :112.6/2

Right Out: -41.999+/-0.228 χ^2/NDF : 1985.2/18

Left In: -29.608+/-0.237 χ^2/NDF :192.8/1

Left: -26.434+/-0.151 χ^2/NDF : 609.1/4

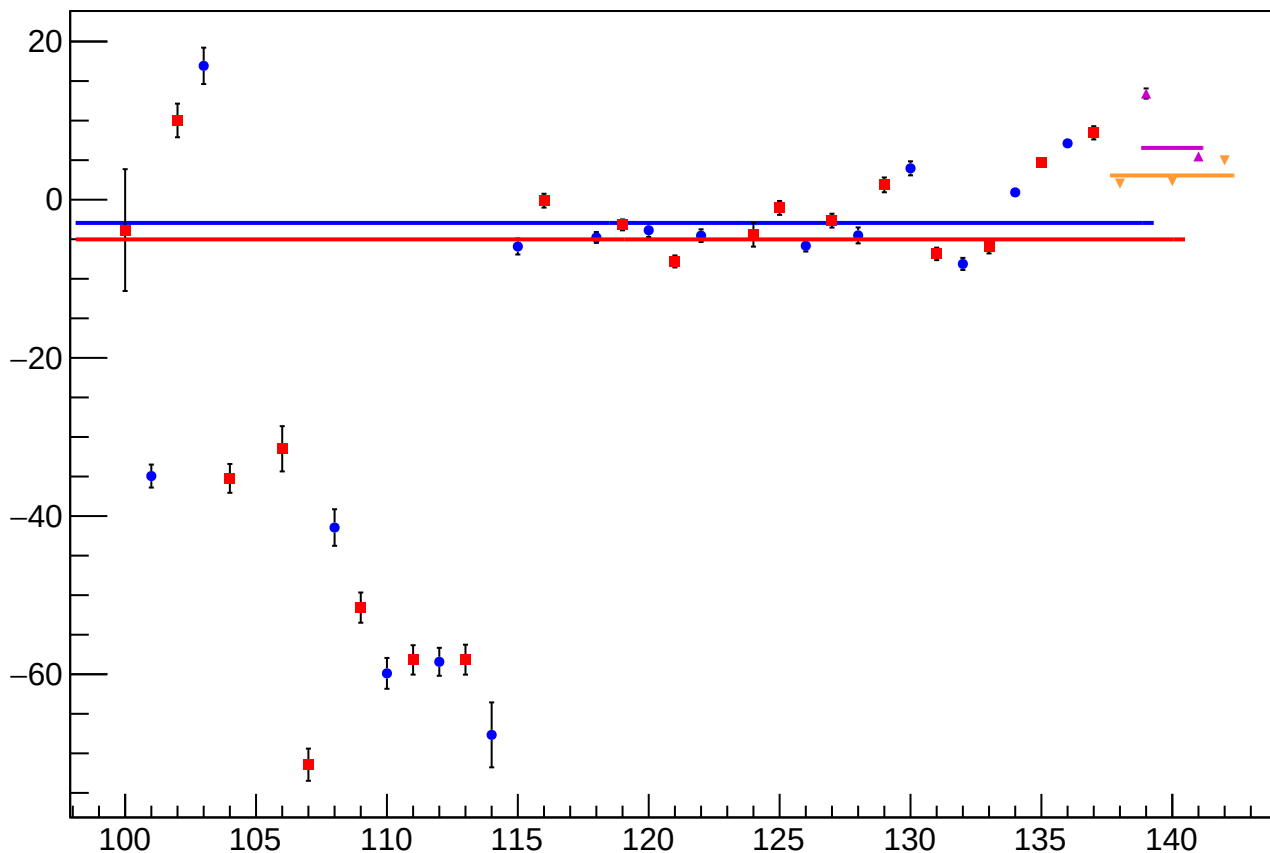
Right: -41.863+/-0.154 χ^2/NDF : 3619.8/34

In: -36.472+/-0.156 χ^2/NDF :3313.8/17

Out: -31.809+/-0.149 χ^2/NDF :5570.0/21

All: -34.032+/-0.108 χ^2/NDF : 9350.6/39

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -2.936 ± 0.210 χ^2/NDF : 3725.6/15

Left Out: 3.060 ± 0.183 χ^2/NDF : 47.2/2

Right Out: -5.018 ± 0.232 χ^2/NDF : 4377.3/18

Left In: 6.550 ± 0.236 χ^2/NDF : 132.5/1

Left: 4.370 ± 0.145 χ^2/NDF : 316.2/4

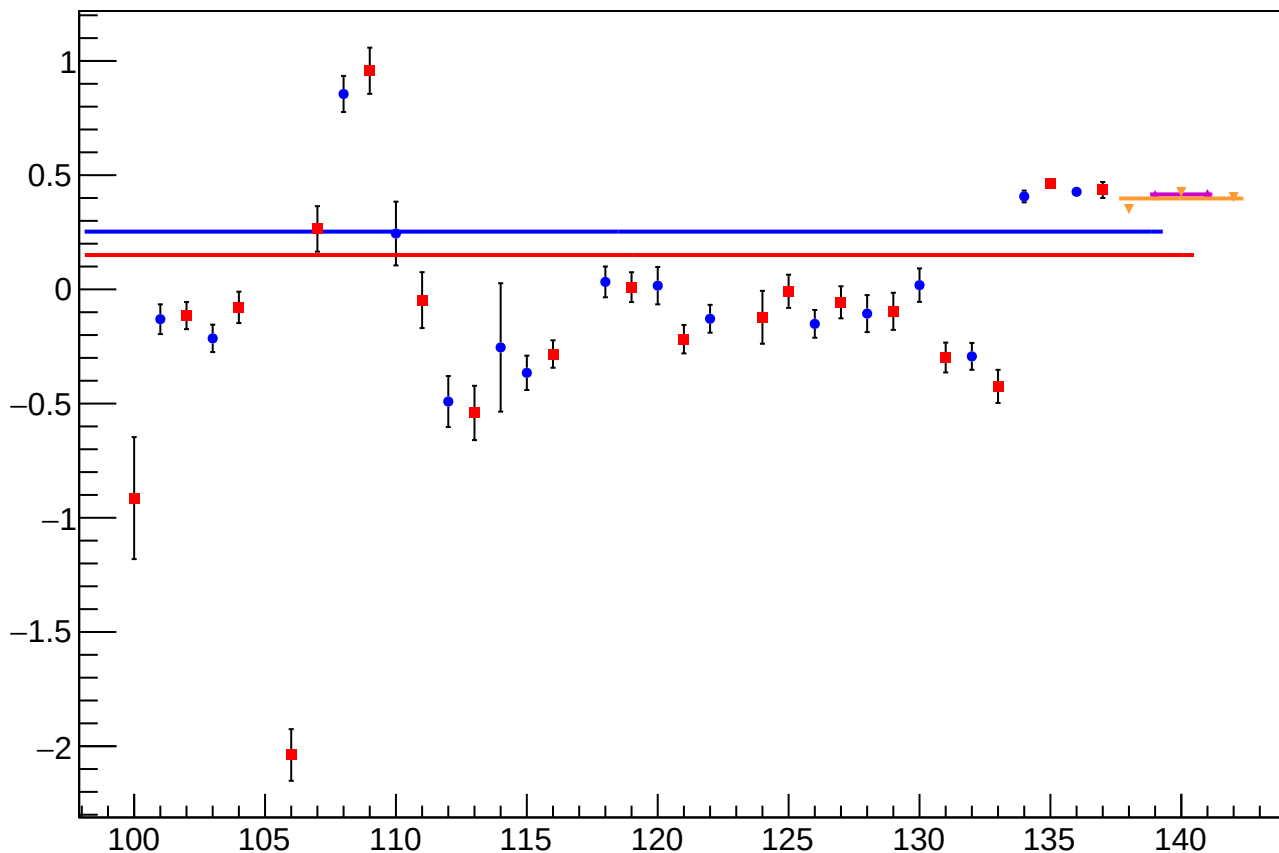
Right: -3.873 ± 0.155 χ^2/NDF : 8147.2/34

In: 1.246 ± 0.157 χ^2/NDF : 4760.6/17

Out: -0.041 ± 0.144 χ^2/NDF : 5172.7/21

All: 0.546 ± 0.106 χ^2/NDF : 9970.0/39

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.253 ± 0.011 χ^2/NDF : 631.0/15

Left Out: 0.398 ± 0.008 χ^2/NDF : 15.1/2

Right Out: 0.150 ± 0.013 χ^2/NDF : 1018.0/18

Left In: 0.416 ± 0.009 χ^2/NDF : 0.1/1

Left: 0.406 ± 0.006 χ^2/NDF : 17.2/4

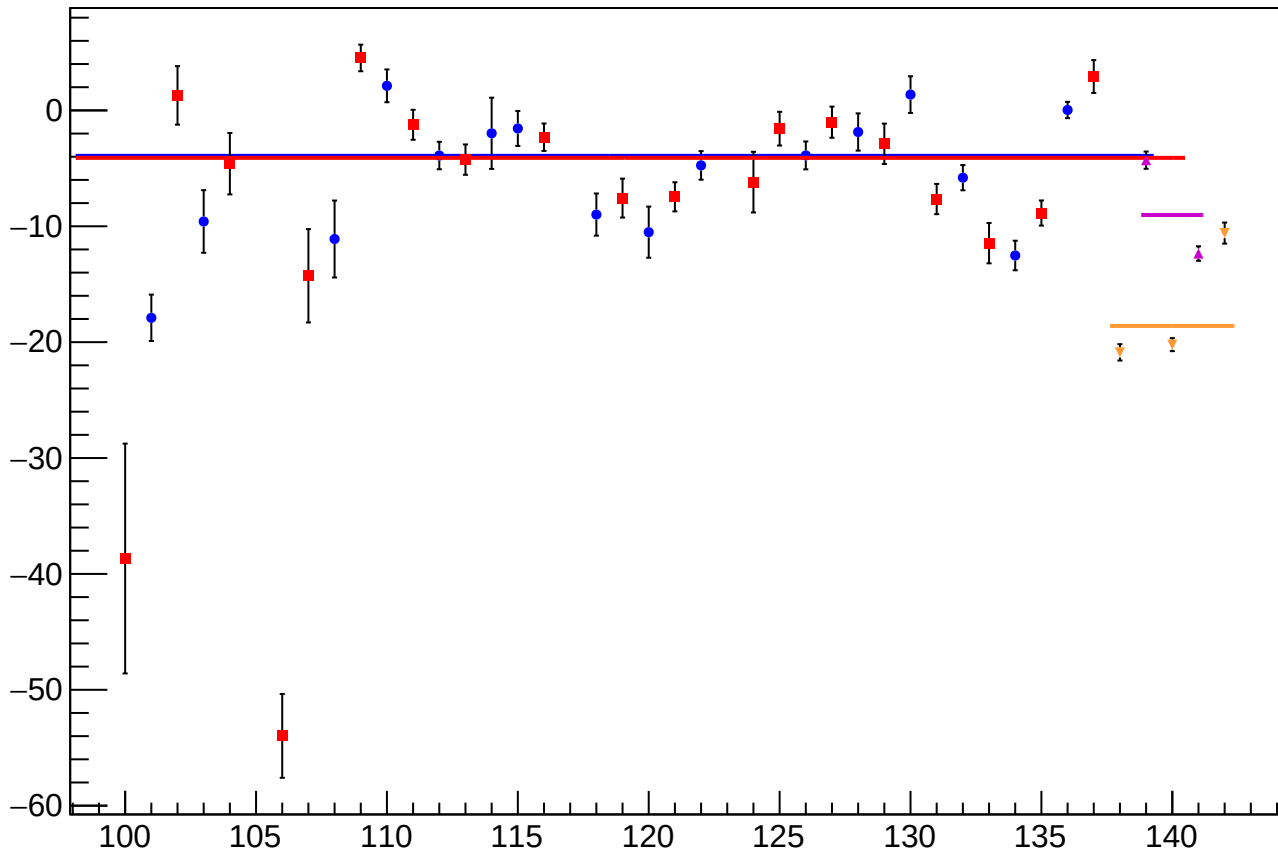
Right: 0.209 ± 0.009 χ^2/NDF : 1682.8/34

In: 0.352 ± 0.007 χ^2/NDF : 754.0/17

Out: 0.328 ± 0.007 χ^2/NDF : 1280.1/21

All: 0.340 ± 0.005 χ^2/NDF : 2039.8/39

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.924 ± 0.346 χ^2/NDF : 188.8/15

Left Out: -18.599 ± 0.395 χ^2/NDF : 96.5/2

Right Out: -4.096 ± 0.357 χ^2/NDF : 366.9/18

Left In: -9.025 ± 0.479 χ^2/NDF : 68.7/1

Left: -14.715 ± 0.305 χ^2/NDF : 403.1/4

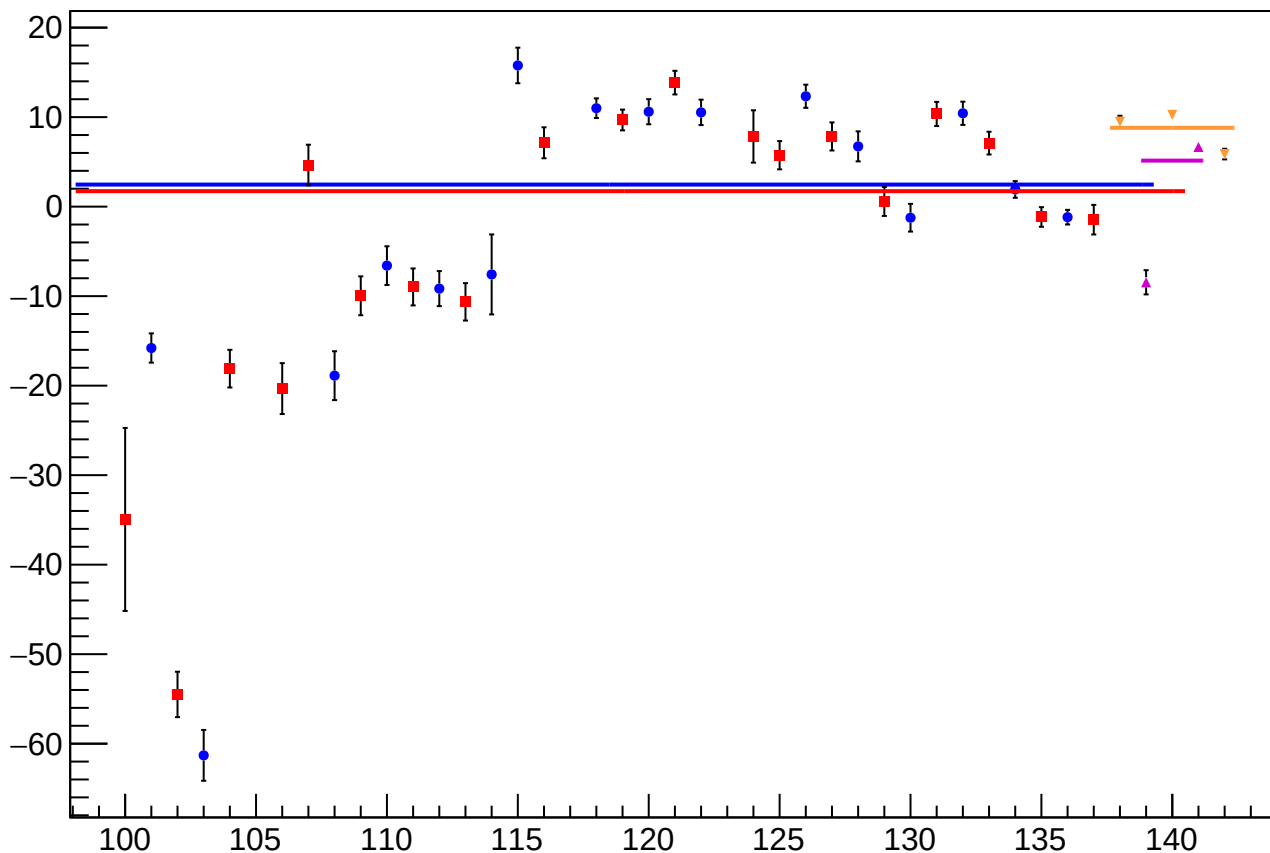
Right: -4.007 ± 0.248 χ^2/NDF : 555.8/34

In: -5.675 ± 0.280 χ^2/NDF : 332.2/17

Out: -10.606 ± 0.265 χ^2/NDF : 1204.9/21

All: -8.281 ± 0.193 χ^2/NDF : 1700.5/39

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.465 ± 0.357 χ^2/NDF : 1046.7/15

Left Out: 8.806 ± 0.320 χ^2/NDF : 35.2/2

Right Out: 1.728 ± 0.386 χ^2/NDF : 983.1/18

Left In: 5.141 ± 0.430 χ^2/NDF : 112.2/1

Left: 7.500 ± 0.257 χ^2/NDF : 194.2/4

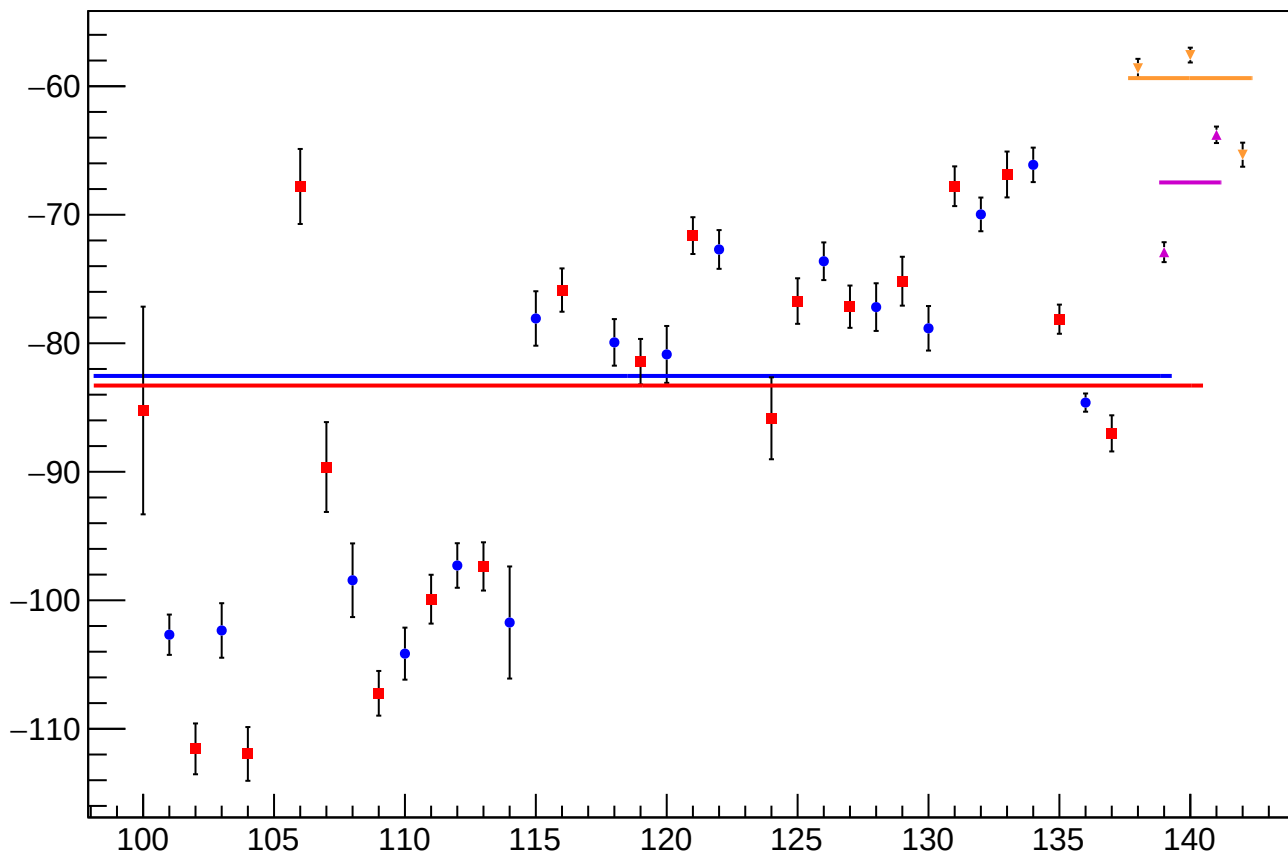
Right: 2.126 ± 0.262 χ^2/NDF : 2031.8/34

In: 3.556 ± 0.275 χ^2/NDF : 1181.9/17

Out: 5.924 ± 0.246 χ^2/NDF : 1217.6/21

All: 4.868 ± 0.183 χ^2/NDF : 2440.7/39

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -82.542 ± 0.384 χ^2/NDF : 838.8/15

Left Out: -59.368 ± 0.409 χ^2/NDF : 51.2/2

Right Out: -83.290 ± 0.414 χ^2/NDF : 1092.6/18

Left In: -67.486 ± 0.494 χ^2/NDF : 82.4/1

Left: -62.666 ± 0.315 χ^2/NDF : 294.0/4

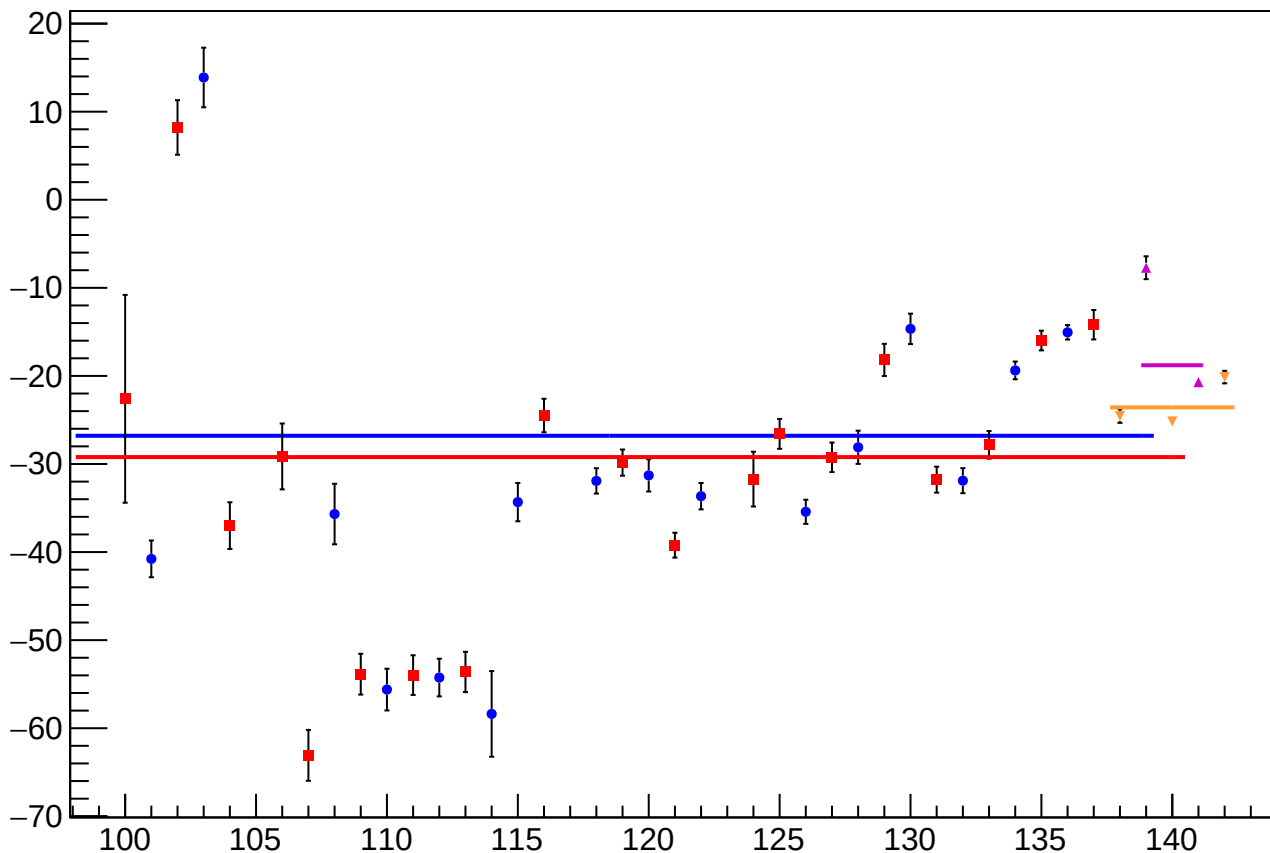
Right: -82.888 ± 0.282 χ^2/NDF : 1933.1/34

In: -76.864 ± 0.303 χ^2/NDF : 1500.0/17

Out: -71.163 ± 0.291 χ^2/NDF : 2834.3/21

All: -73.894 ± 0.210 χ^2/NDF : 4518.4/39

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -26.796 ± 0.396 χ^2/NDF : 963.5/15

Left Out: -23.575 ± 0.381 χ^2/NDF : 33.2/2

Right Out: -29.216 ± 0.431 χ^2/NDF : 960.7/18

Left In: -18.789 ± 0.499 χ^2/NDF : 85.3/1

Left: -21.813 ± 0.303 χ^2/NDF : 176.5/4

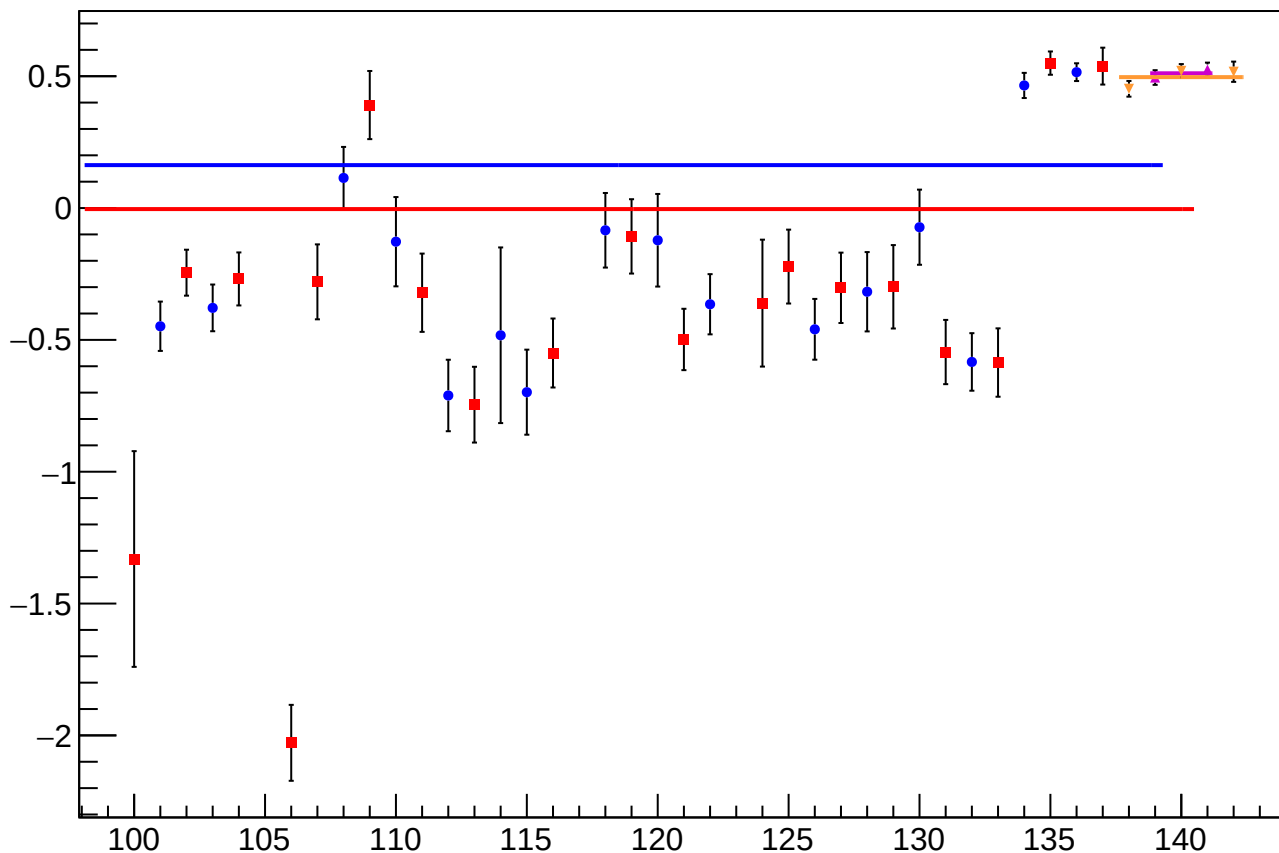
Right: -27.902 ± 0.291 χ^2/NDF : 1941.2/34

In: -23.709 ± 0.310 χ^2/NDF : 1206.7/17

Out: -26.050 ± 0.286 χ^2/NDF : 1089.9/21

All: -24.976 ± 0.210 χ^2/NDF : 2327.5/39

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.163 $\pm$ 0.021 χ^2/NDF : 422.6/15

Left Out: 0.497 $\pm$ 0.017 χ^2/NDF : 3.4/2

Right Out: -0.004 $\pm$ 0.024 χ^2/NDF : 573.3/18

Left In: 0.511 $\pm$ 0.019 χ^2/NDF : 0.6/1

Left: 0.503 $\pm$ 0.013 χ^2/NDF : 4.3/4

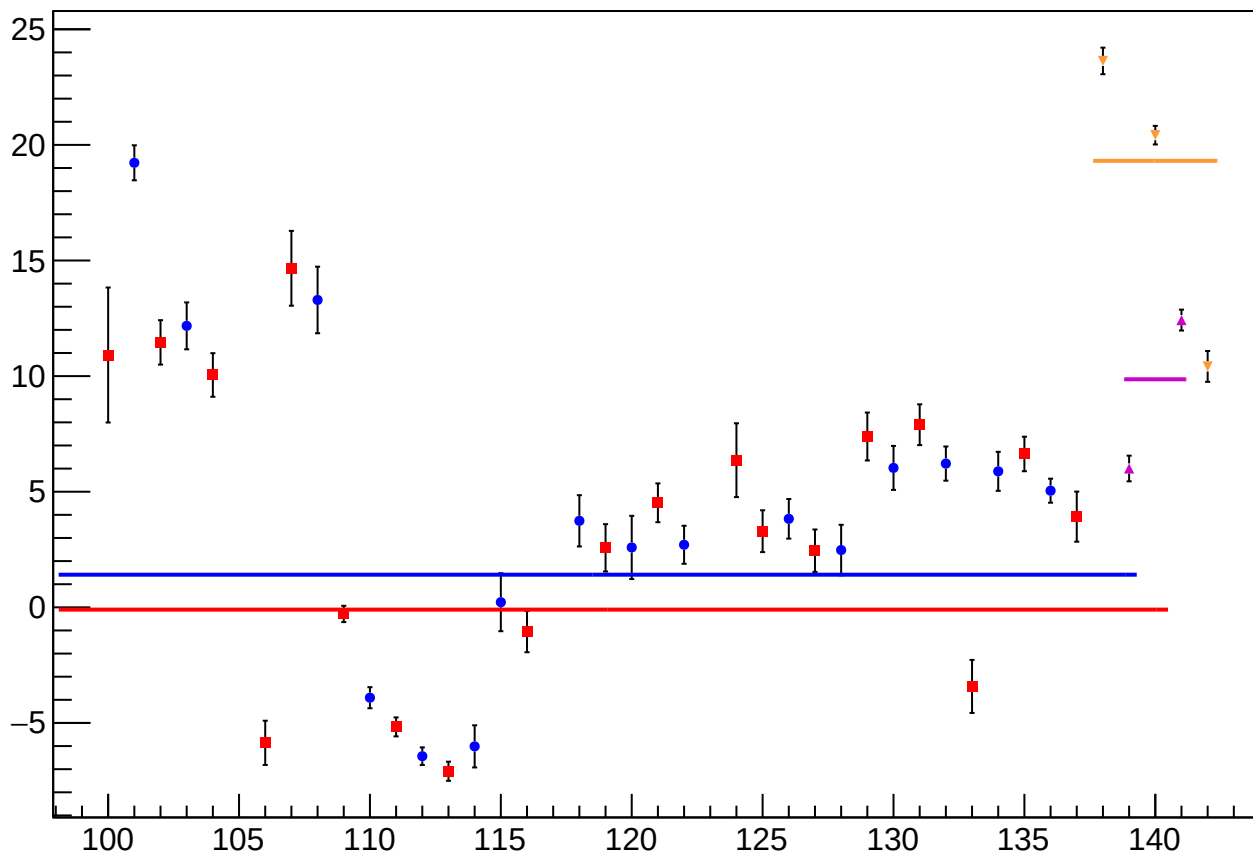
Right: 0.090 $\pm$ 0.016 χ^2/NDF : 1022.3/34

In: 0.357 $\pm$ 0.014 χ^2/NDF : 570.6/17

Out: 0.328 $\pm$ 0.014 χ^2/NDF : 855.9/21

All: 0.343 $\pm$ 0.010 χ^2/NDF : 1428.5/39

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.412 ± 0.183 $\chi^2/\text{NDF}: 1522.1/15$

Left Out: 19.312 ± 0.295 $\chi^2/\text{NDF}: 241.8/2$

Right Out: -0.098 ± 0.167 $\chi^2/\text{NDF}: 1147.2/18$

Left In: 9.863 ± 0.350 $\chi^2/\text{NDF}: 80.5/1$

Left: 15.383 ± 0.226 $\chi^2/\text{NDF}: 747.6/4$

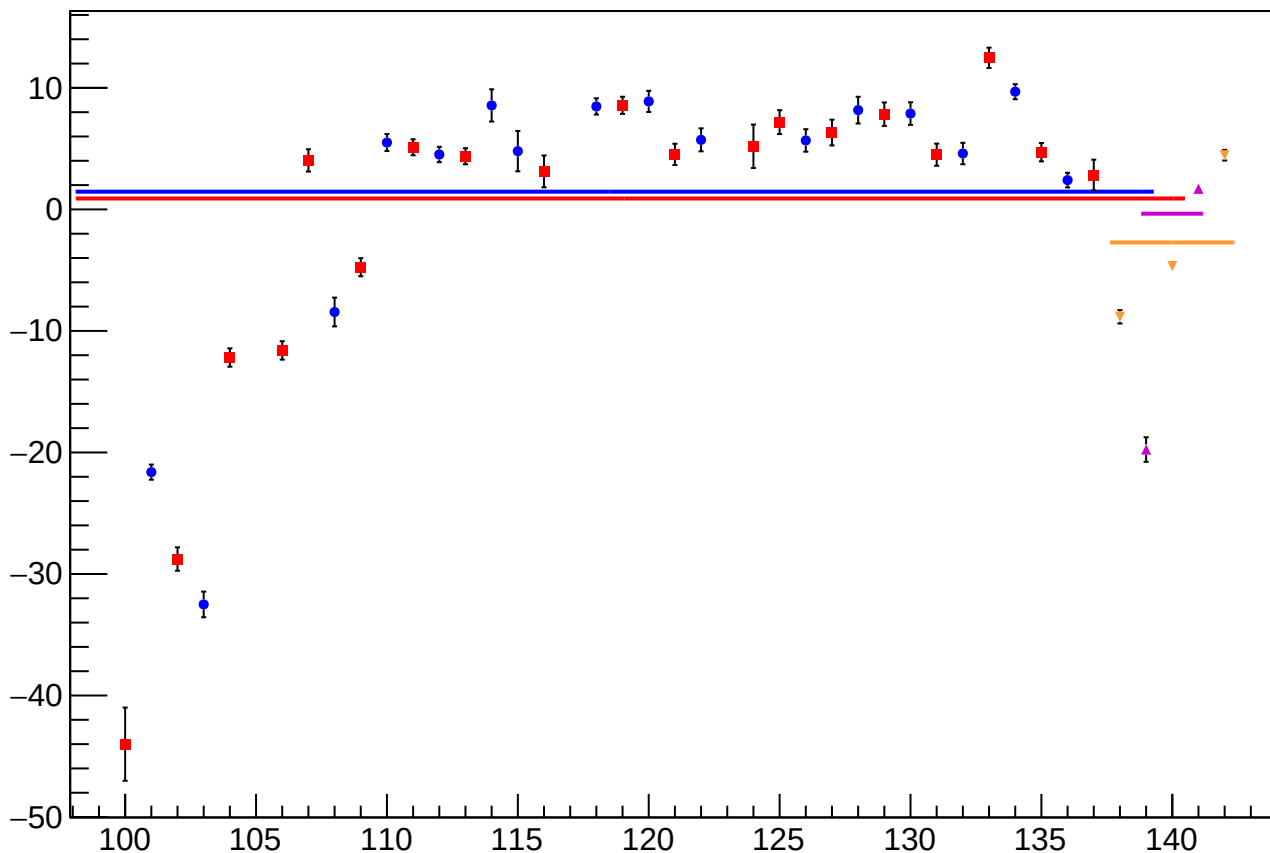
Right: 0.589 ± 0.124 $\chi^2/\text{NDF}: 2706.4/34$

In: 3.226 ± 0.162 $\chi^2/\text{NDF}: 2059.9/17$

Out: 4.618 ± 0.146 $\chi^2/\text{NDF}: 4655.6/21$

All: 3.997 ± 0.108 $\chi^2/\text{NDF}: 6756.2/39$

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.459 ± 0.203 $\chi^2/\text{NDF}: 3080.3/15$

Left Out: -2.720 ± 0.239 $\chi^2/\text{NDF}: 424.8/2$

Right Out: 0.896 ± 0.202 $\chi^2/\text{NDF}: 2377.1/18$

Left In: -0.352 ± 0.313 $\chi^2/\text{NDF}: 407.4/1$

Left: -1.847 ± 0.190 $\chi^2/\text{NDF}: 868.4/4$

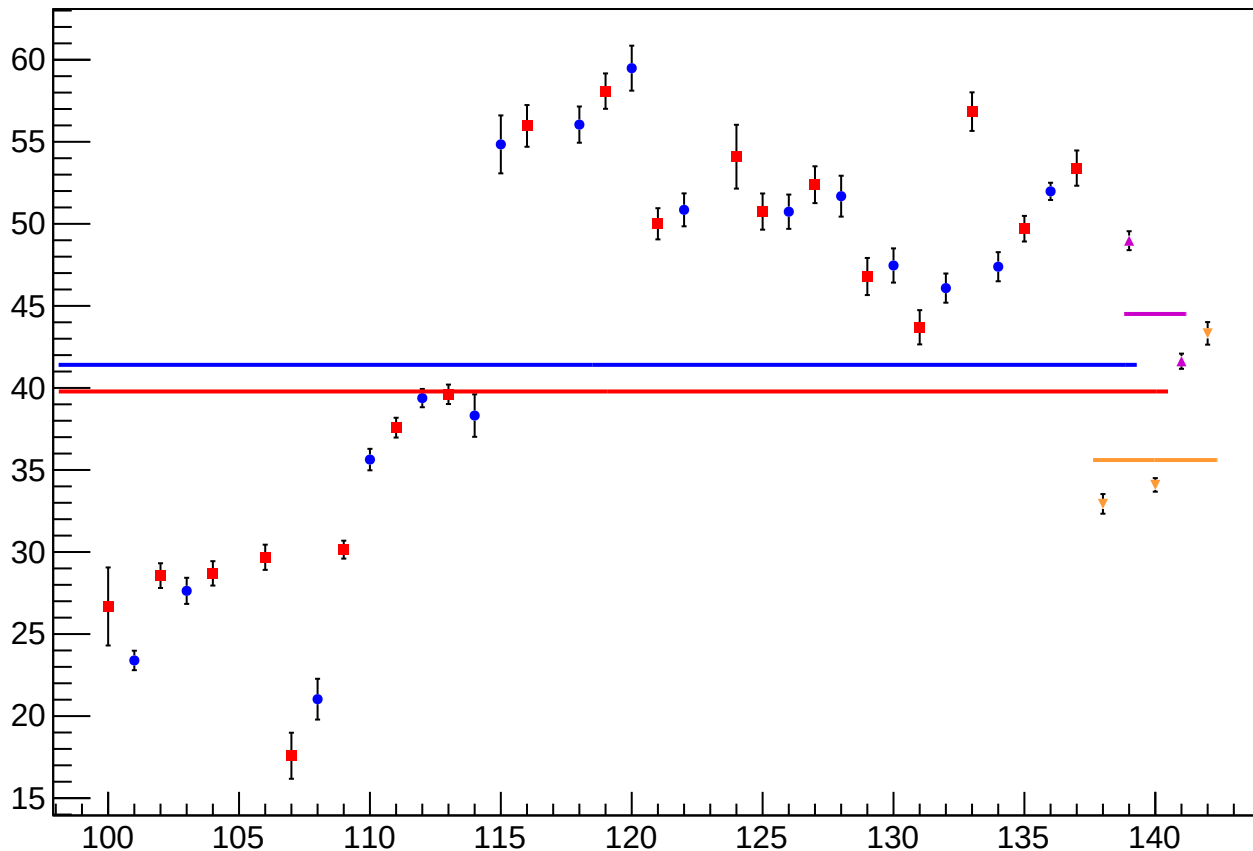
Right: 1.176 ± 0.143 $\chi^2/\text{NDF}: 5461.2/34$

In: 0.920 ± 0.170 $\chi^2/\text{NDF}: 3511.2/17$

Out: -0.612 ± 0.154 $\chi^2/\text{NDF}: 2935.5/21$

All: 0.077 ± 0.114 $\chi^2/\text{NDF}: 6491.2/39$

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 41.407 $\pm$ 0.211 χ^2 /NDF: 2746.0/15

Left Out: 35.605 $\pm$ 0.305 χ^2 /NDF:159.2/2

Right Out: 39.784 $\pm$ 0.203 χ^2 /NDF: 2653.8/18

Left In: 44.508 $\pm$ 0.361 χ^2 /NDF:98.5/1

Left: 39.311 $\pm$ 0.233 χ^2 /NDF: 612.1/4

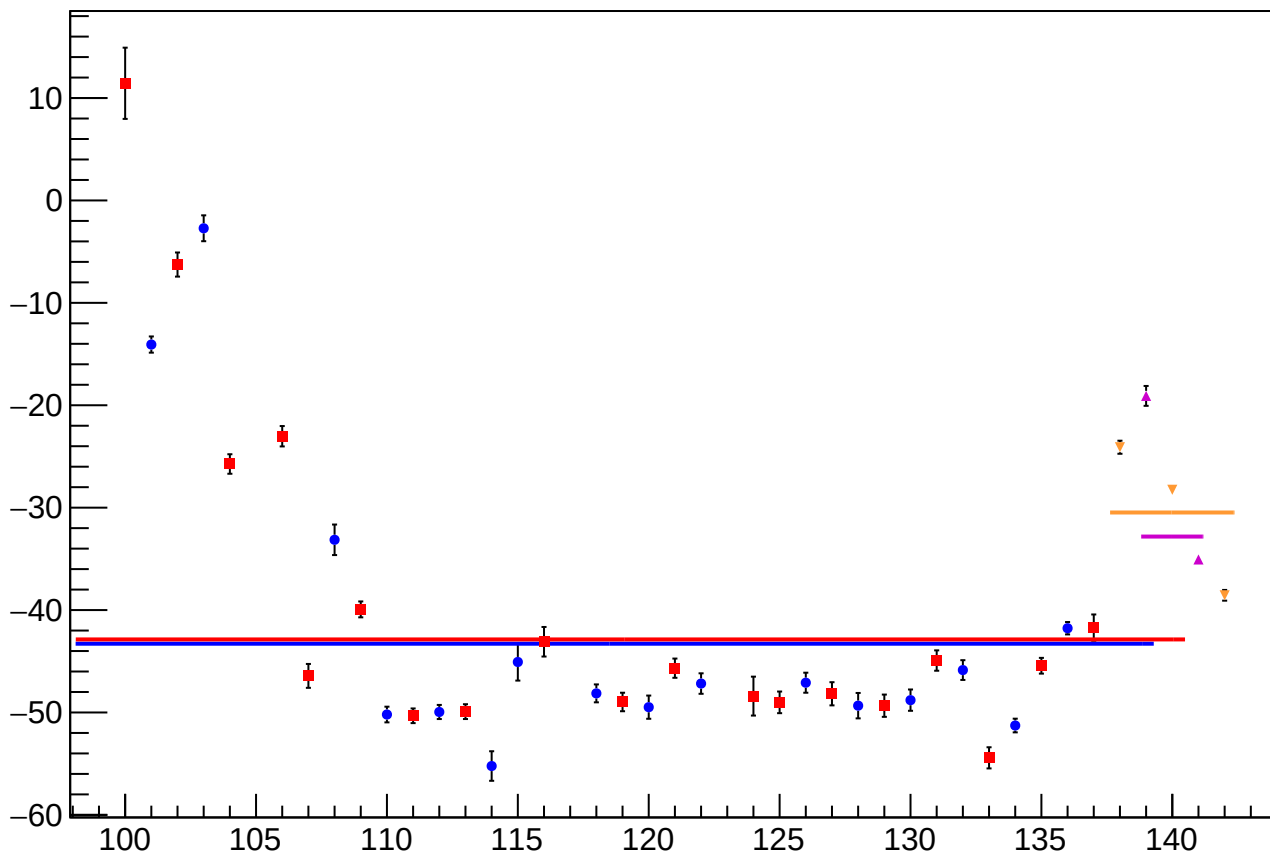
Right: 40.565 $\pm$ 0.146 χ^2 /NDF: 5430.6/34

In: 42.193 $\pm$ 0.182 χ^2 /NDF:2899.5/17

Out: 38.503 $\pm$ 0.169 χ^2 /NDF:2943.1/21

All: 40.212 $\pm$ 0.124 χ^2 /NDF: 6063.5/39

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -43.285+/-0.229 χ^2/NDF : 2985.2/15

Left Out: -30.472+/-0.284 χ^2/NDF : 369.2/2

Right Out: -42.867+/-0.229 χ^2/NDF : 2454.2/18

Left In: -32.822+/-0.363 χ^2/NDF : 233.0/1

Left: -31.365+/-0.224 χ^2/NDF : 628.1/4

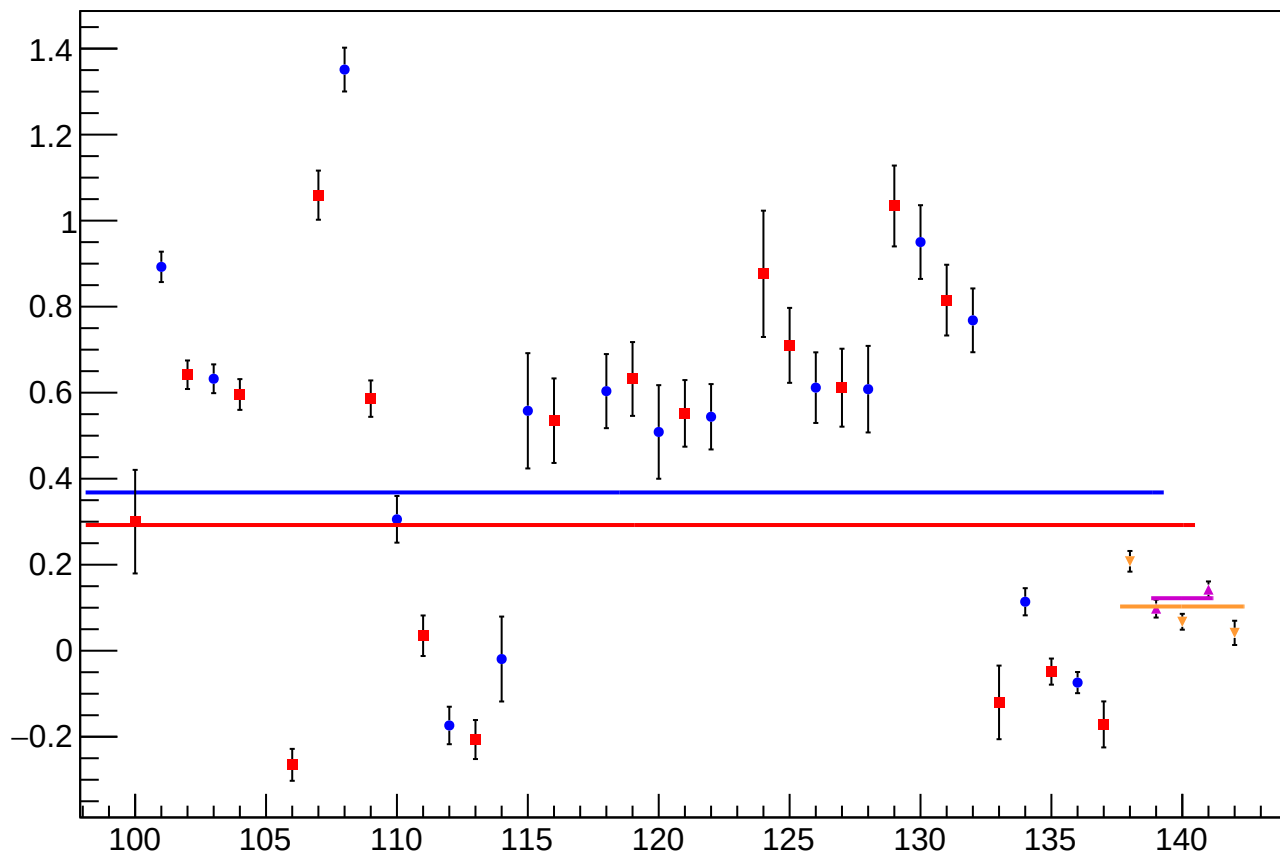
Right: -43.076+/-0.162 χ^2/NDF : 5441.1/34

In: -40.303+/-0.194 χ^2/NDF : 3811.6/17

Out: -37.992+/-0.178 χ^2/NDF : 3975.5/21

All: -39.051+/-0.131 χ^2/NDF : 7863.9/39

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.368 $\pm$ 0.012 χ^2/NDF : 1320.9/15

Left Out: 0.103 $\pm$ 0.013 χ^2/NDF : 27.6/2

Right Out: 0.292 $\pm$ 0.012 χ^2/NDF : 1199.2/18

Left In: 0.122 $\pm$ 0.014 χ^2/NDF : 2.5/1

Left: 0.112 $\pm$ 0.010 χ^2/NDF : 31.0/4

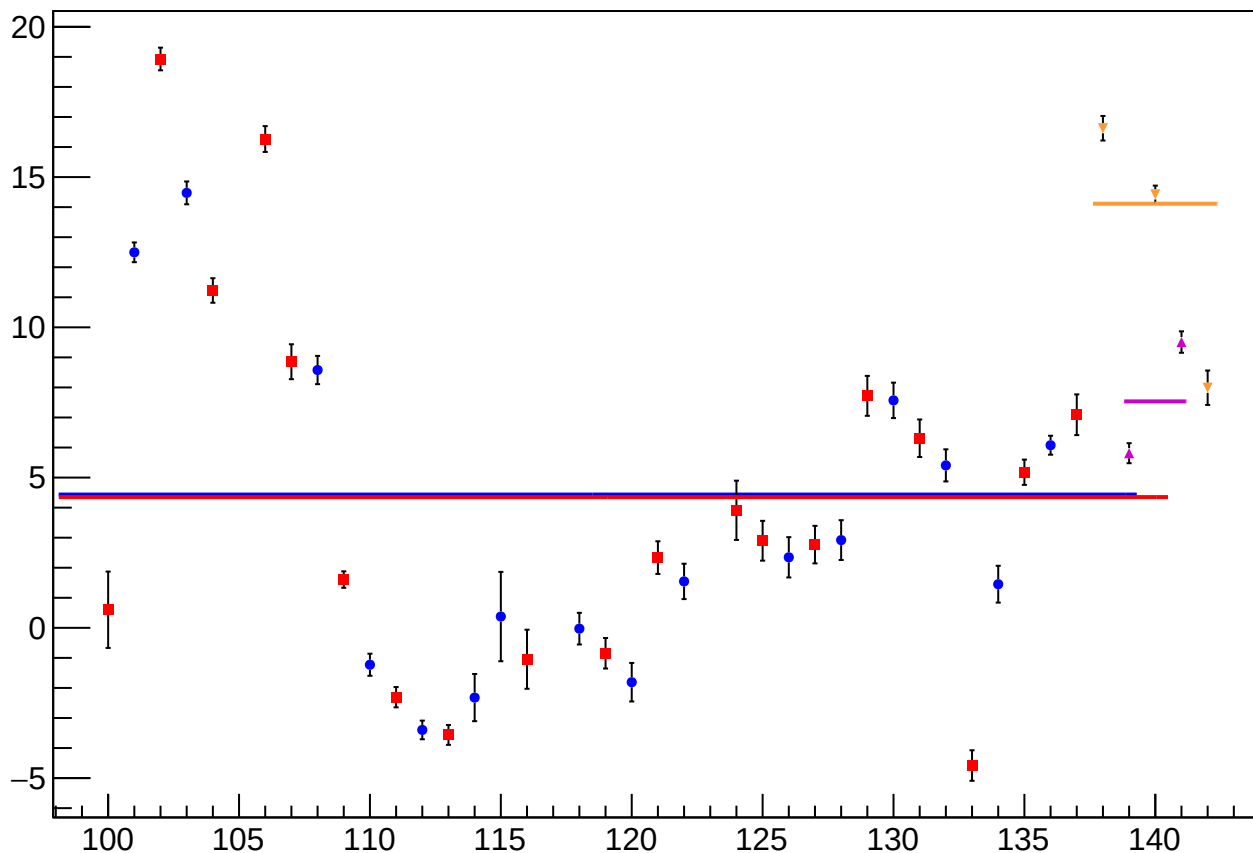
Right: 0.330 $\pm$ 0.009 χ^2/NDF : 2539.6/34

In: 0.262 $\pm$ 0.009 χ^2/NDF : 1498.6/17

Out: 0.204 $\pm$ 0.009 χ^2/NDF : 1340.8/21

All: 0.232 $\pm$ 0.006 χ^2/NDF : 2859.9/39

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.435 $\pm$ 0.117 χ^2/NDF : 2622.0/15

Left Out: 14.114 $\pm$ 0.219 χ^2/NDF : 153.4/2

Right Out: 4.351 $\pm$ 0.109 χ^2/NDF : 4205.3/18

Left In: 7.536 $\pm$ 0.244 χ^2/NDF : 57.4/1

Left: 11.170 $\pm$ 0.163 χ^2/NDF : 613.8/4

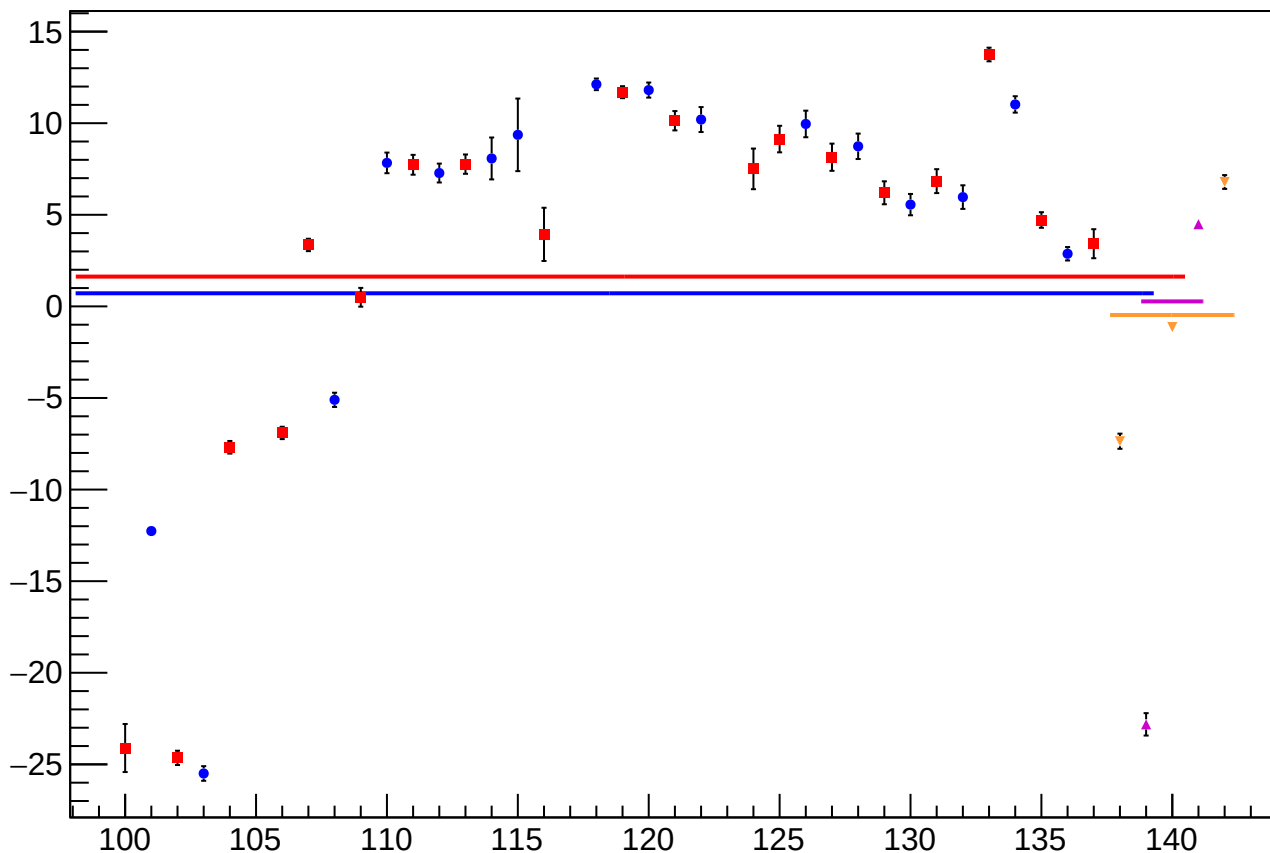
Right: 4.390 $\pm$ 0.080 χ^2/NDF : 6827.6/34

In: 5.016 $\pm$ 0.105 χ^2/NDF : 2811.1/17

Out: 6.289 $\pm$ 0.098 χ^2/NDF : 5948.3/21

All: 5.701 $\pm$ 0.072 χ^2/NDF : 8837.8/39

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.715 $\pm$ 0.116 χ^2 /NDF: 10454.0/15

Left Out: -0.472 $\pm$ 0.184 χ^2 /NDF:655.9/2

Right Out: 1.627 $\pm$ 0.111 χ^2 /NDF: 9255.5/18

Left In: 0.272 $\pm$ 0.240 χ^2 /NDF:1684.1/1

Left: -0.197 $\pm$ 0.146 χ^2 /NDF: 2346.0/4

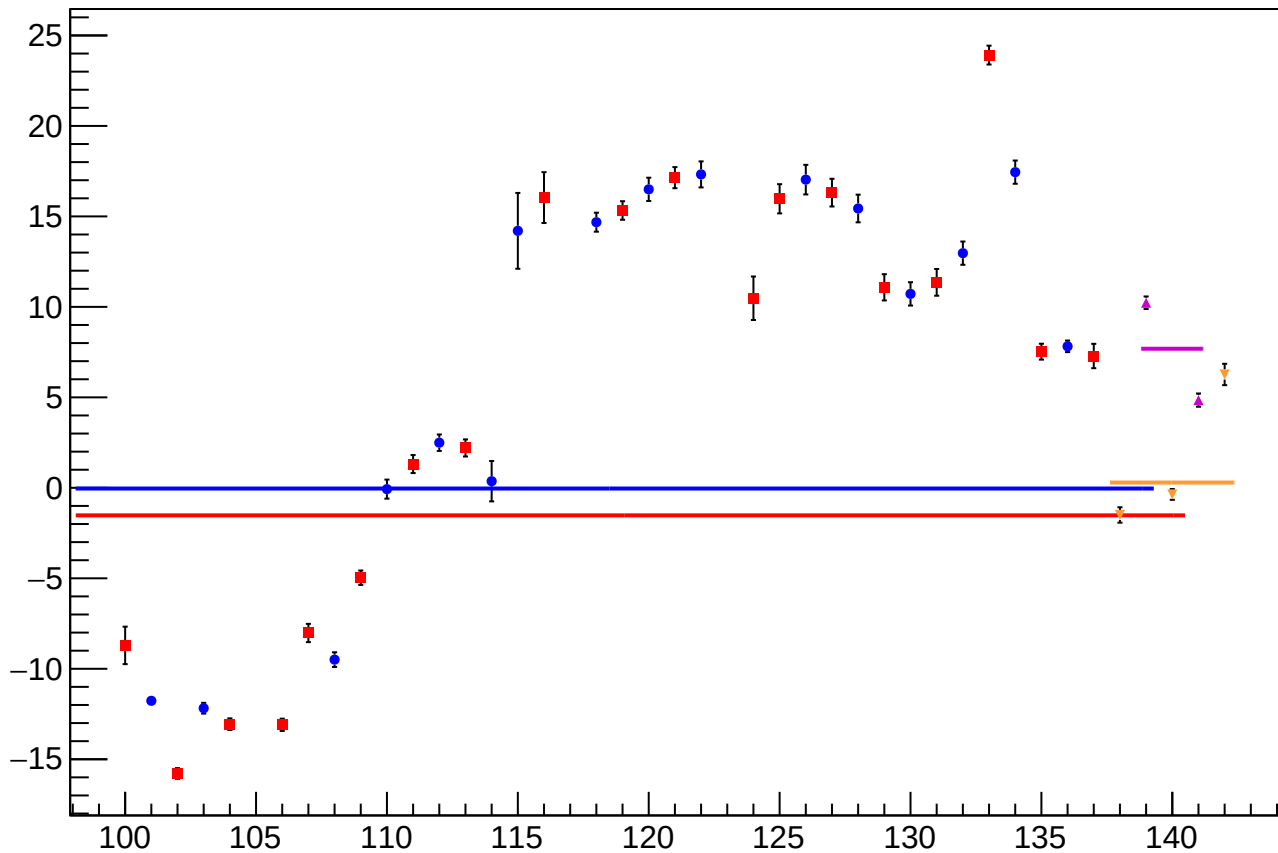
Right: 1.190 $\pm$ 0.080 χ^2 /NDF: 19741.8/34

In: 0.631 $\pm$ 0.104 χ^2 /NDF:12140.8/17

Out: 1.066 $\pm$ 0.095 χ^2 /NDF:10007.0/21

All: 0.869 $\pm$ 0.070 χ^2 /NDF: 22157.2/39

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.038 ± 0.119 χ^2/NDF : 9274.3/15

Left Out: 0.293 ± 0.227 χ^2/NDF : 124.8/2

Right Out: -1.521 ± 0.115 χ^2/NDF : 12130.2/18

Left In: 7.687 ± 0.252 χ^2/NDF : 114.0/1

Left: 3.603 ± 0.168 χ^2/NDF : 715.7/4

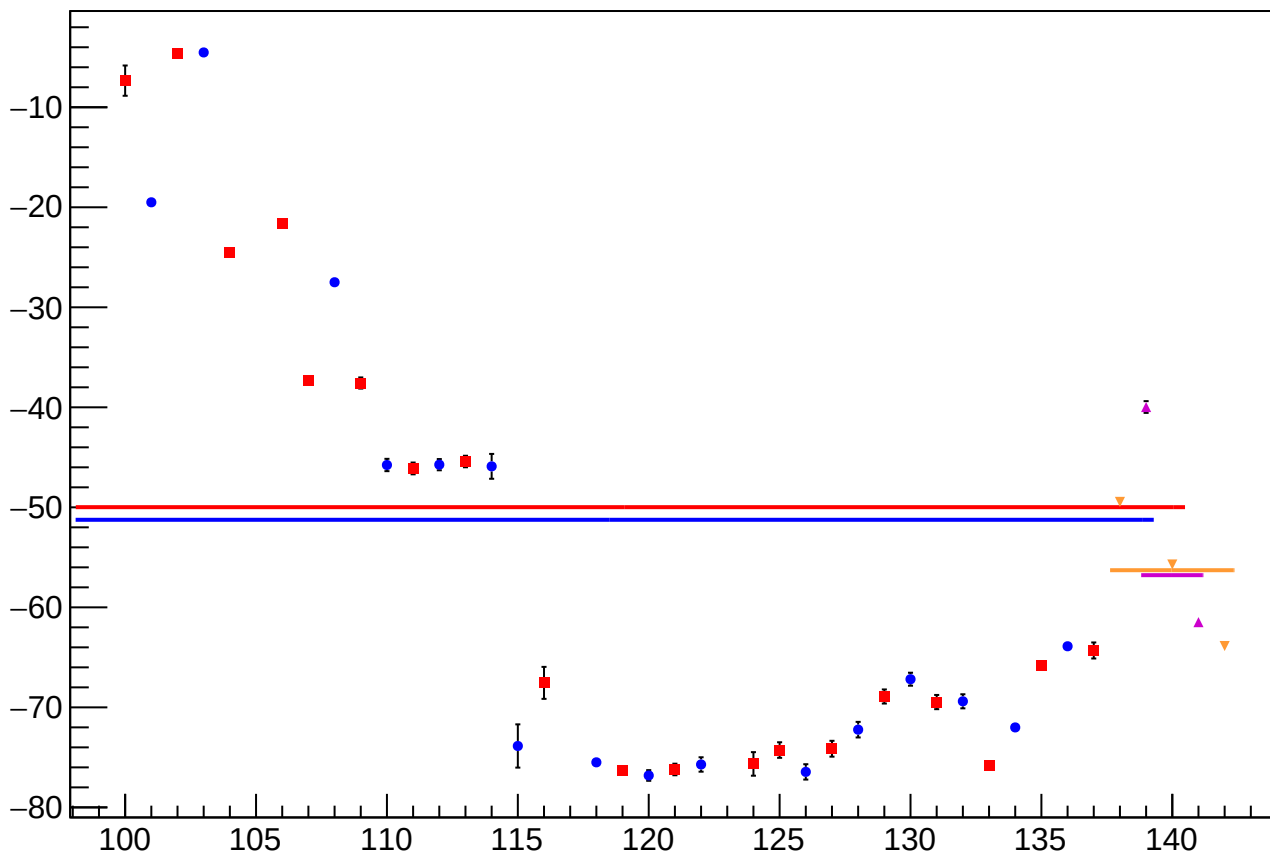
Right: -0.807 ± 0.083 χ^2/NDF : 21484.6/34

In: 1.381 ± 0.108 χ^2/NDF : 10157.6/17

Out: -1.149 ± 0.103 χ^2/NDF : 12306.0/21

All: 0.053 ± 0.074 χ^2/NDF : 22752.4/39

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -51.246+/-0.136 χ^2/NDF : 33765.2/15

Left Out: -56.287+/-0.218 χ^2/NDF : 499.4/2

Right Out: -49.983+/-0.131 χ^2/NDF : 33892.5/18

Left In: -56.782+/-0.275 χ^2/NDF : 1047.1/1

Left: -56.478+/-0.171 χ^2/NDF : 1548.5/4

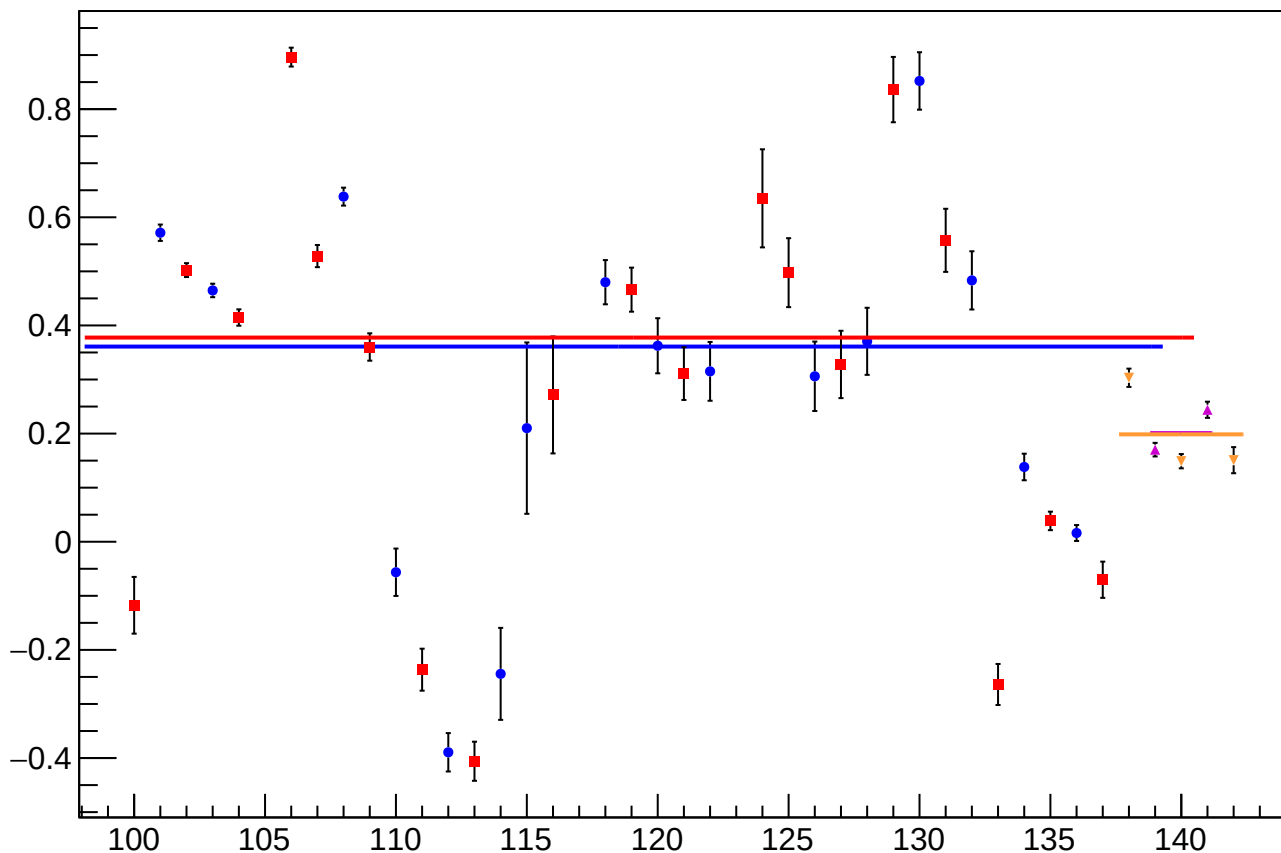
Right: -50.590+/-0.094 χ^2/NDF : 67702.6/34

In: -52.333+/-0.122 χ^2/NDF : 35138.9/17

Out: -51.651+/-0.112 χ^2/NDF : 35007.7/21

All: -51.964+/-0.082 χ^2/NDF : 70163.5/39

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.361 ± 0.006 $\chi^2/\text{NDF}: 1860.0/15$

Left Out: 0.199 ± 0.010 $\chi^2/\text{NDF}: 56.4/2$

Right Out: 0.378 ± 0.006 $\chi^2/\text{NDF}: 2790.5/18$

Left In: 0.201 ± 0.010 $\chi^2/\text{NDF}: 14.3/1$

Left: 0.200 ± 0.007 $\chi^2/\text{NDF}: 70.6/4$

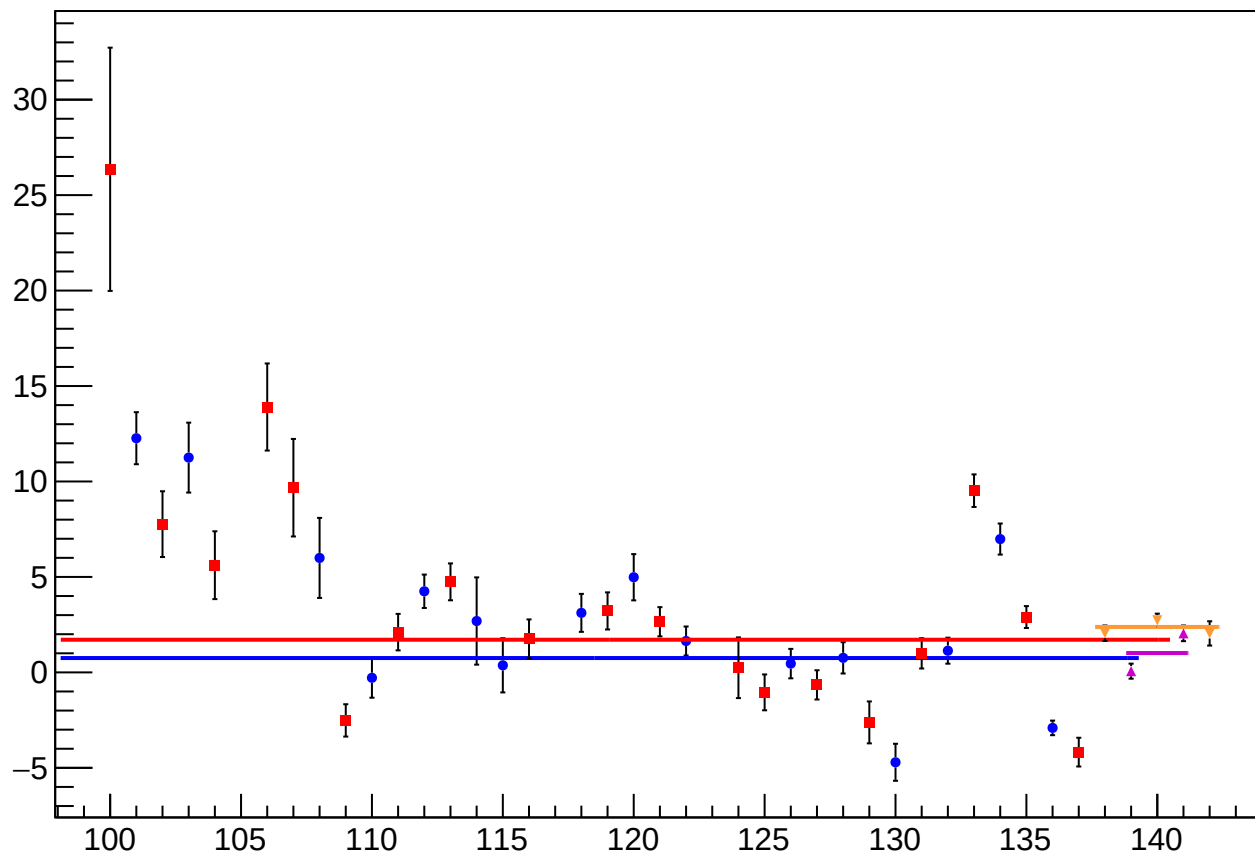
Right: 0.370 ± 0.004 $\chi^2/\text{NDF}: 4654.1/34$

In: 0.312 ± 0.005 $\chi^2/\text{NDF}: 2066.6/17$

Out: 0.326 ± 0.005 $\chi^2/\text{NDF}: 3095.7/21$

All: 0.319 ± 0.004 $\chi^2/\text{NDF}: 5165.5/39$

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.752 $\pm$ 0.212 χ^2/NDF : 330.1/15

Left Out: 2.380 $\pm$ 0.244 χ^2/NDF :1.9/2

Right Out: 1.710 $\pm$ 0.223 χ^2/NDF : 293.8/18

Left In: 1.014 $\pm$ 0.285 χ^2/NDF :12.1/1

Left: 1.801 $\pm$ 0.185 χ^2/NDF : 27.3/4

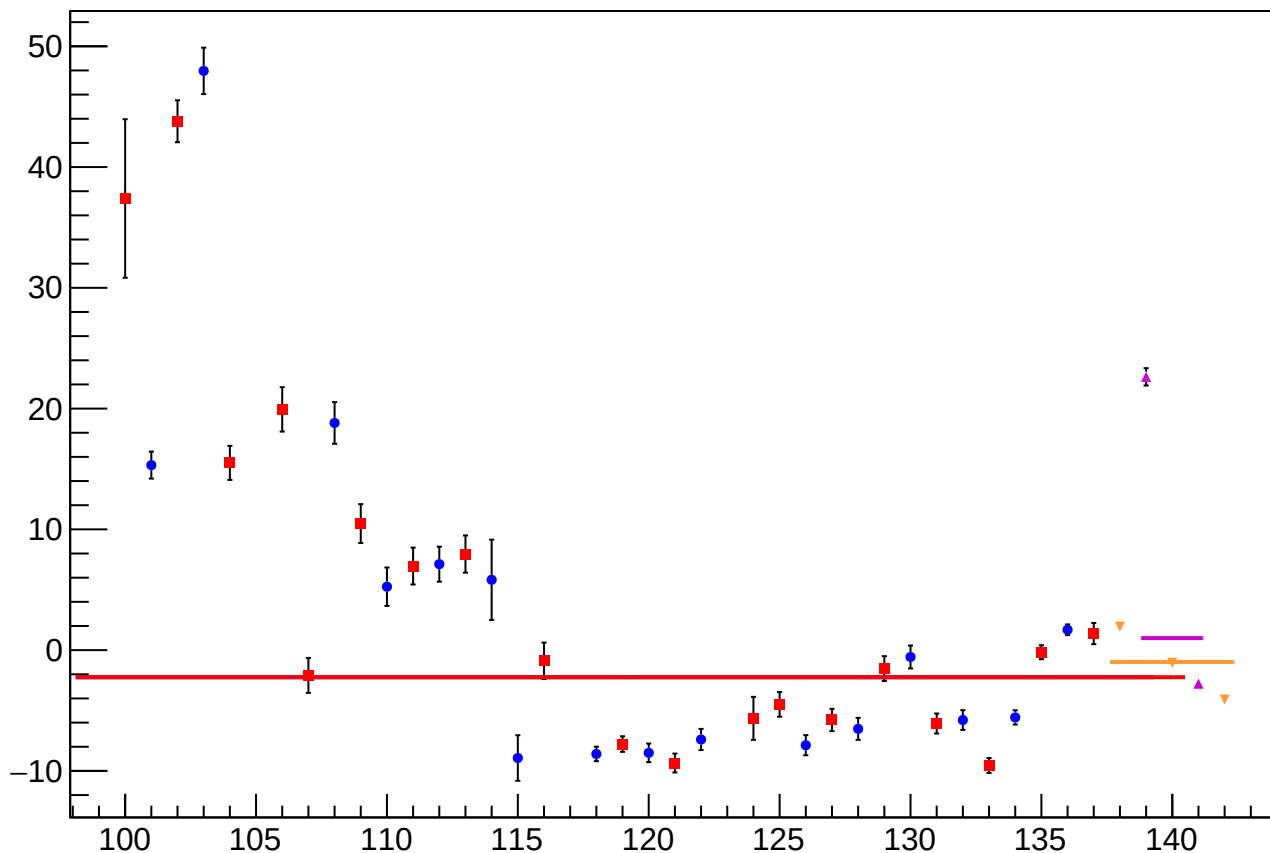
Right: 1.208 $\pm$ 0.154 χ^2/NDF : 633.6/34

In: 0.845 $\pm$ 0.170 χ^2/NDF :342.7/17

Out: 2.014 $\pm$ 0.165 χ^2/NDF :299.9/21

All: 1.449 $\pm$ 0.118 χ^2/NDF : 667.0/39

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.245 ± 0.215 $\chi^2/\text{NDF}: 1572.5/15$

Left Out: -0.980 ± 0.204 $\chi^2/\text{NDF}: 110.2/2$

Right Out: -2.242 ± 0.229 $\chi^2/\text{NDF}: 1555.6/18$

Left In: 0.997 ± 0.277 $\chi^2/\text{NDF}: 1066.1/1$

Left: -0.283 ± 0.164 $\chi^2/\text{NDF}: 1209.4/4$

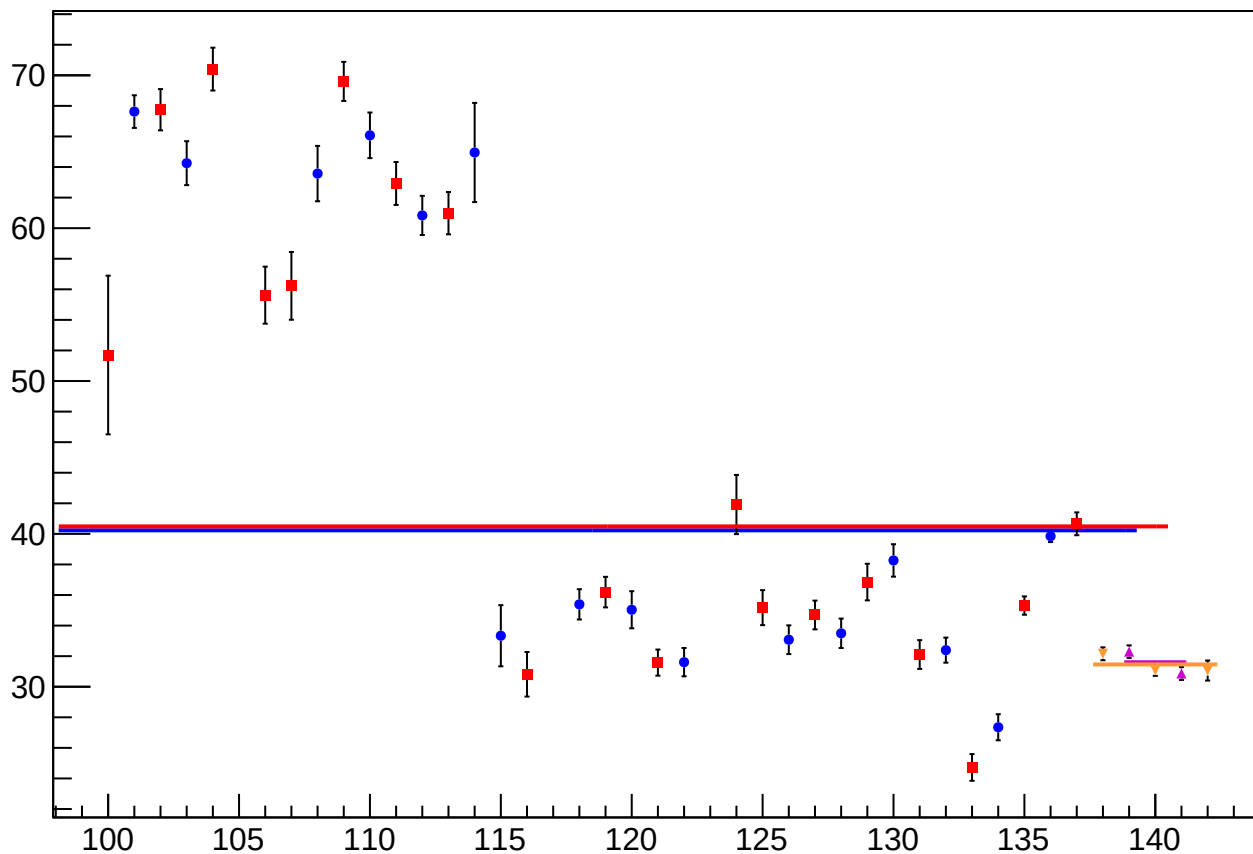
Right: -2.244 ± 0.157 $\chi^2/\text{NDF}: 3128.1/34$

In: -1.023 ± 0.170 $\chi^2/\text{NDF}: 2724.1/17$

Out: -1.539 ± 0.152 $\chi^2/\text{NDF}: 1682.8/21$

All: -1.309 ± 0.113 $\chi^2/\text{NDF}: 4412.0/39$

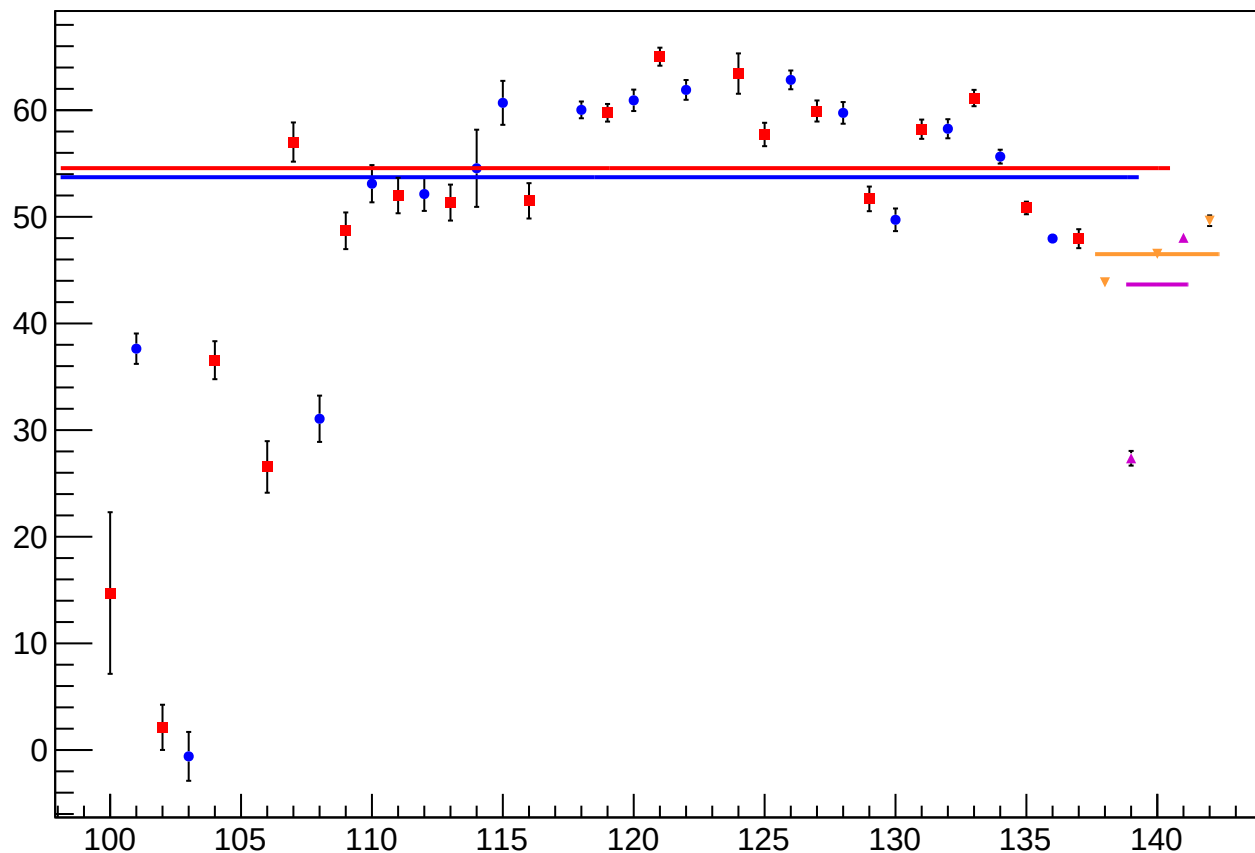
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 40.232 $\pm$ 0.231 χ^2 /NDF: 2291.1/15
 Left Out: 31.458 $\pm$ 0.253 χ^2 /NDF:4.2/2
 Right Out: 40.490 $\pm$ 0.250 χ^2 /NDF: 2698.0/18
 Left In: 31.601 $\pm$ 0.294 χ^2 /NDF:5.9/1

Left: 31.519 $\pm$ 0.192 χ^2 /NDF: 10.3/4
 Right: 40.351 $\pm$ 0.170 χ^2 /NDF: 4989.7/34
 In: 36.933 $\pm$ 0.182 χ^2 /NDF:2828.6/17
 Out: 36.016 $\pm$ 0.178 χ^2 /NDF:3346.6/21
 All: 36.464 $\pm$ 0.127 χ^2 /NDF: 6188.2/39

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 53.715+/-0.239 χ^2/NDF : 1362.7/15

Left Out: 46.500+/-0.242 χ^2/NDF : 73.5/2

Right Out: 54.565+/-0.256 χ^2/NDF : 1342.6/18

Left In: 43.655+/-0.317 χ^2/NDF : 709.5/1

Left: 45.452+/-0.193 χ^2/NDF : 833.8/4

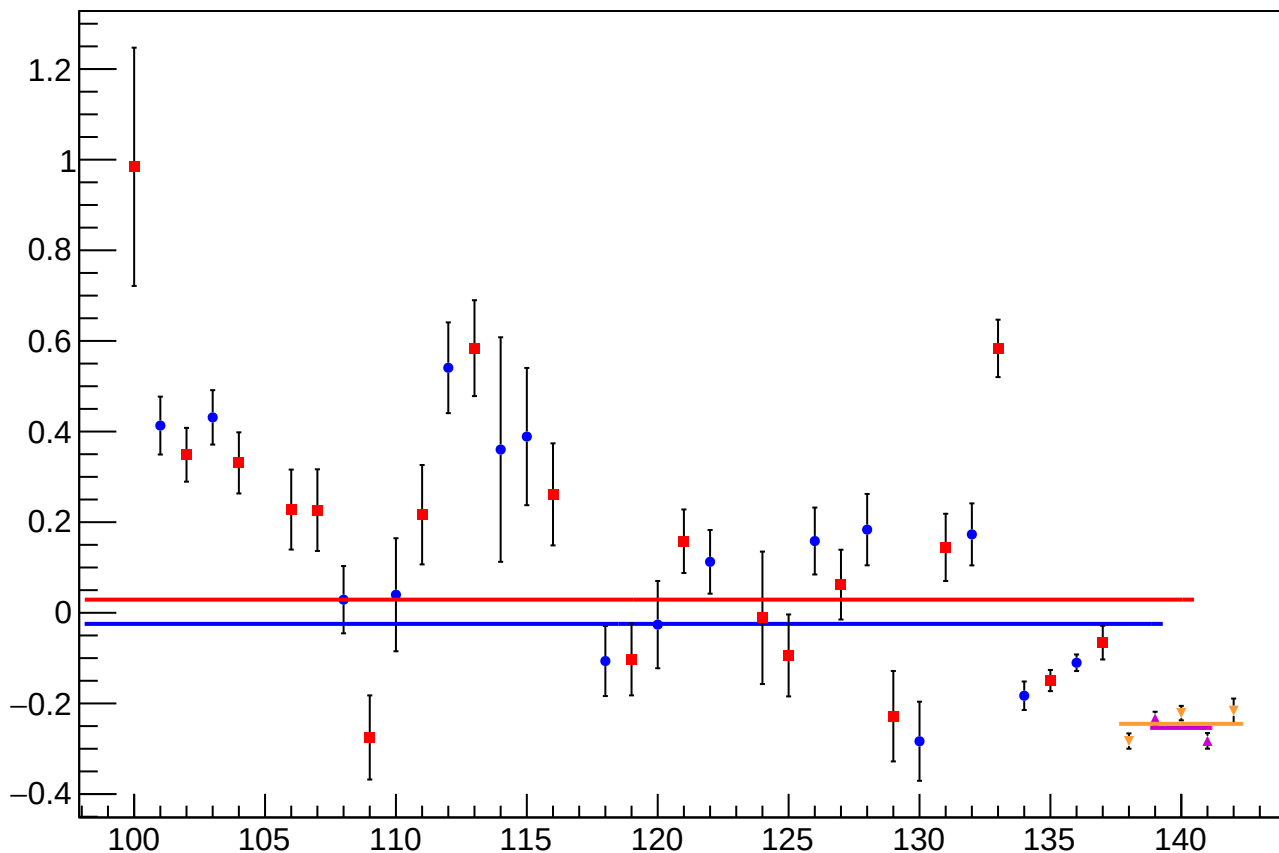
Right: 54.111+/-0.175 χ^2/NDF : 2711.2/34

In: 50.072+/-0.191 χ^2/NDF : 2713.8/17

Out: 50.308+/-0.176 χ^2/NDF : 1939.4/21

All: 50.200+/-0.129 χ^2/NDF : 4654.0/39

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.024 ± 0.013 χ^2/NDF : 229.7/15

Left Out: -0.245 ± 0.011 χ^2/NDF : 8.4/2

Right Out: 0.029 ± 0.014 χ^2/NDF : 276.4/18

Left In: -0.254 ± 0.011 χ^2/NDF : 4.8/1

Left: -0.249 ± 0.008 χ^2/NDF : 13.5/4

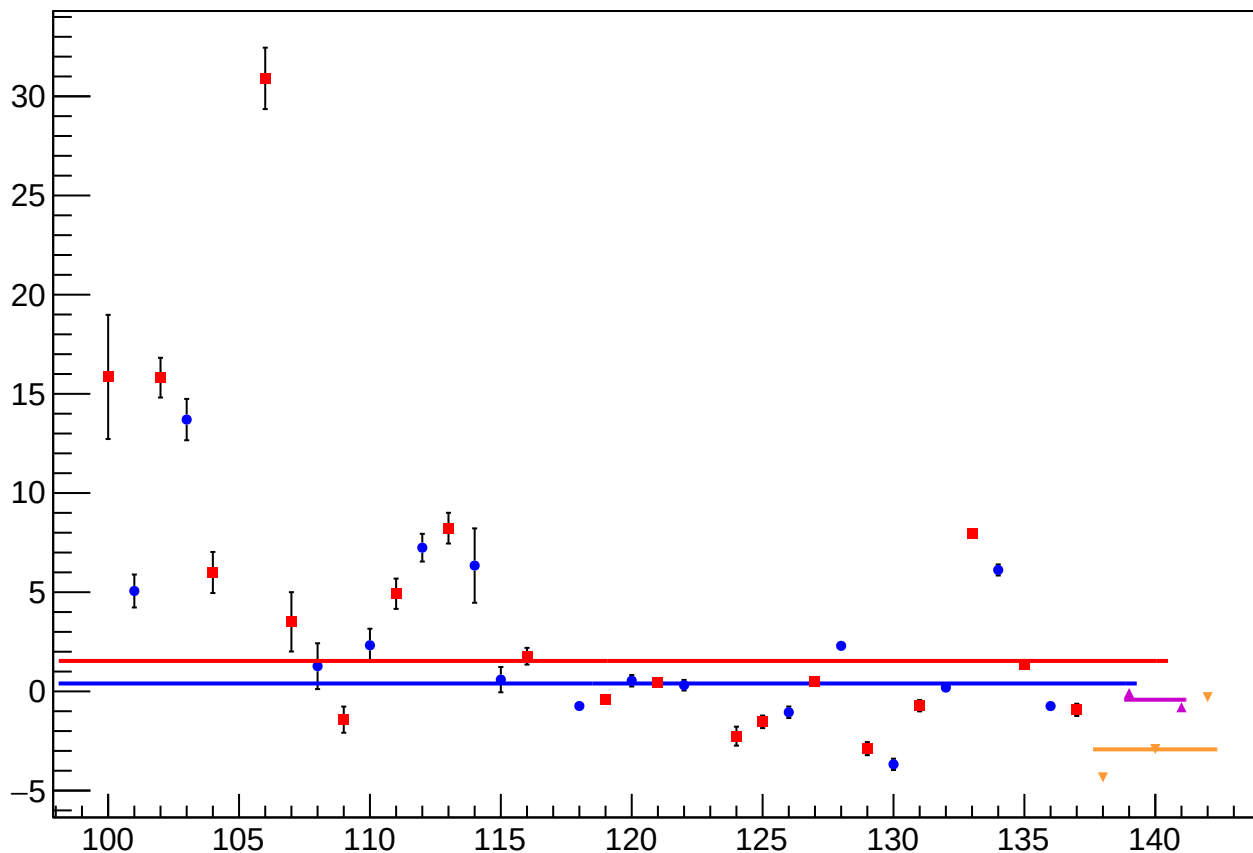
Right: -0.001 ± 0.010 χ^2/NDF : 513.9/34

In: -0.154 ± 0.008 χ^2/NDF : 416.3/17

Out: -0.147 ± 0.009 χ^2/NDF : 522.2/21

All: -0.151 ± 0.006 χ^2/NDF : 938.9/39

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.398 ± 0.077 $\chi^2/\text{NDF}: 1097.4/15$

Left Out: -2.922 ± 0.091 $\chi^2/\text{NDF}: 191.9/2$

Right Out: 1.536 ± 0.078 $\chi^2/\text{NDF}: 2411.2/18$

Left In: -0.419 ± 0.100 $\chi^2/\text{NDF}: 12.8/1$

Left: -1.788 ± 0.067 $\chi^2/\text{NDF}: 545.6/4$

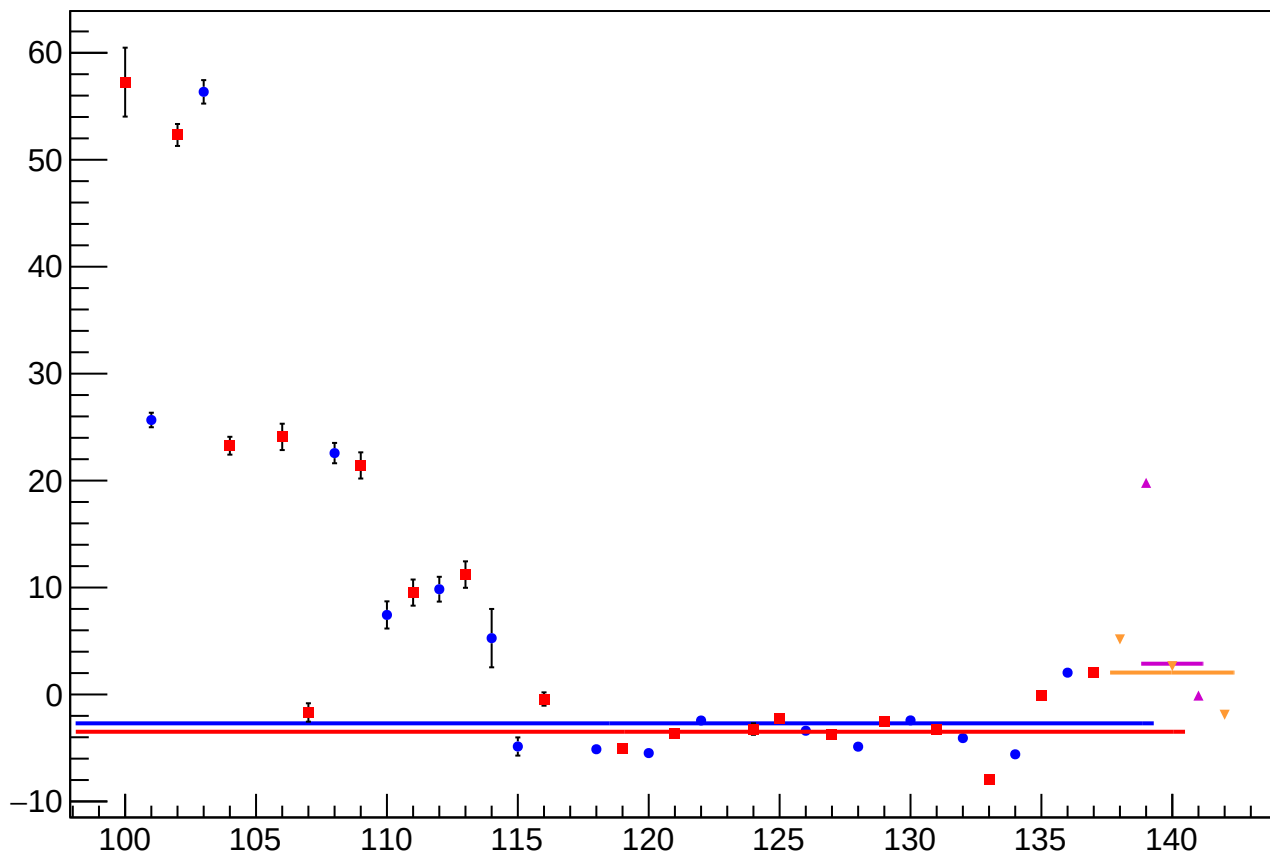
Right: 0.959 ± 0.055 $\chi^2/\text{NDF}: 3615.8/34$

In: 0.095 ± 0.061 $\chi^2/\text{NDF}: 1151.9/17$

Out: -0.351 ± 0.059 $\chi^2/\text{NDF}: 3979.1/21$

All: -0.135 ± 0.043 $\chi^2/\text{NDF}: 5158.3/39$

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.699 ± 0.071 $\chi^2/\text{NDF}: 7103.8/15$

Left Out: 2.050 ± 0.076 $\chi^2/\text{NDF}: 1005.5/2$

Right Out: -3.486 ± 0.071 $\chi^2/\text{NDF}: 7159.9/18$

Left In: 2.877 ± 0.098 $\chi^2/\text{NDF}: 5200.1/1$

Left: 2.360 ± 0.060 $\chi^2/\text{NDF}: 6249.8/4$

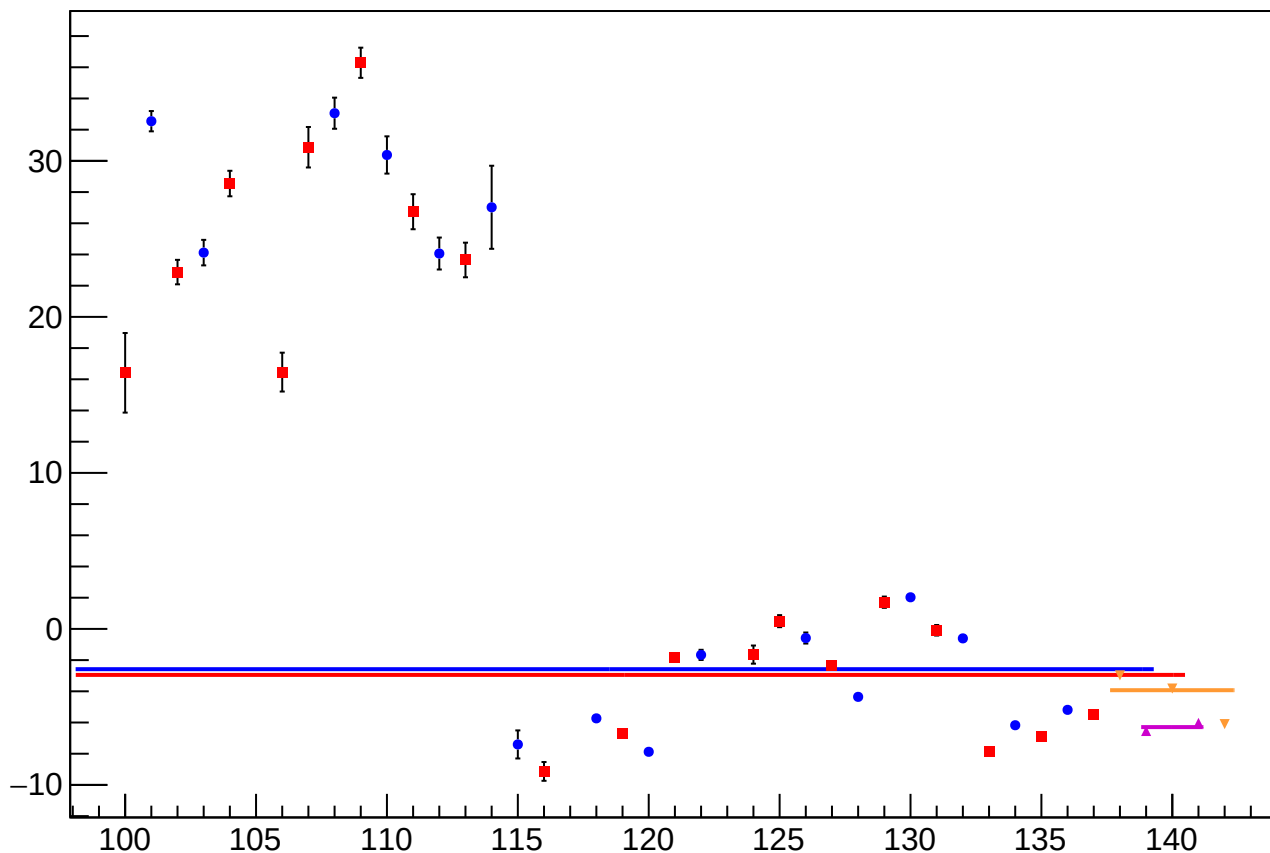
Right: -3.091 ± 0.050 $\chi^2/\text{NDF}: 14325.4/34$

In: -0.800 ± 0.057 $\chi^2/\text{NDF}: 14420.6/17$

Out: -0.916 ± 0.052 $\chi^2/\text{NDF}: 10998.6/21$

All: -0.864 ± 0.038 $\chi^2/\text{NDF}: 25421.4/39$

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.582 ± 0.083 χ^2/NDF : 8159.7/15

Left Out: -3.929 ± 0.094 χ^2/NDF : 108.6/2

Right Out: -2.948 ± 0.085 χ^2/NDF : 8196.4/18

Left In: -6.294 ± 0.103 χ^2/NDF : 6.3/1

Left: -5.002 ± 0.070 χ^2/NDF : 400.1/4

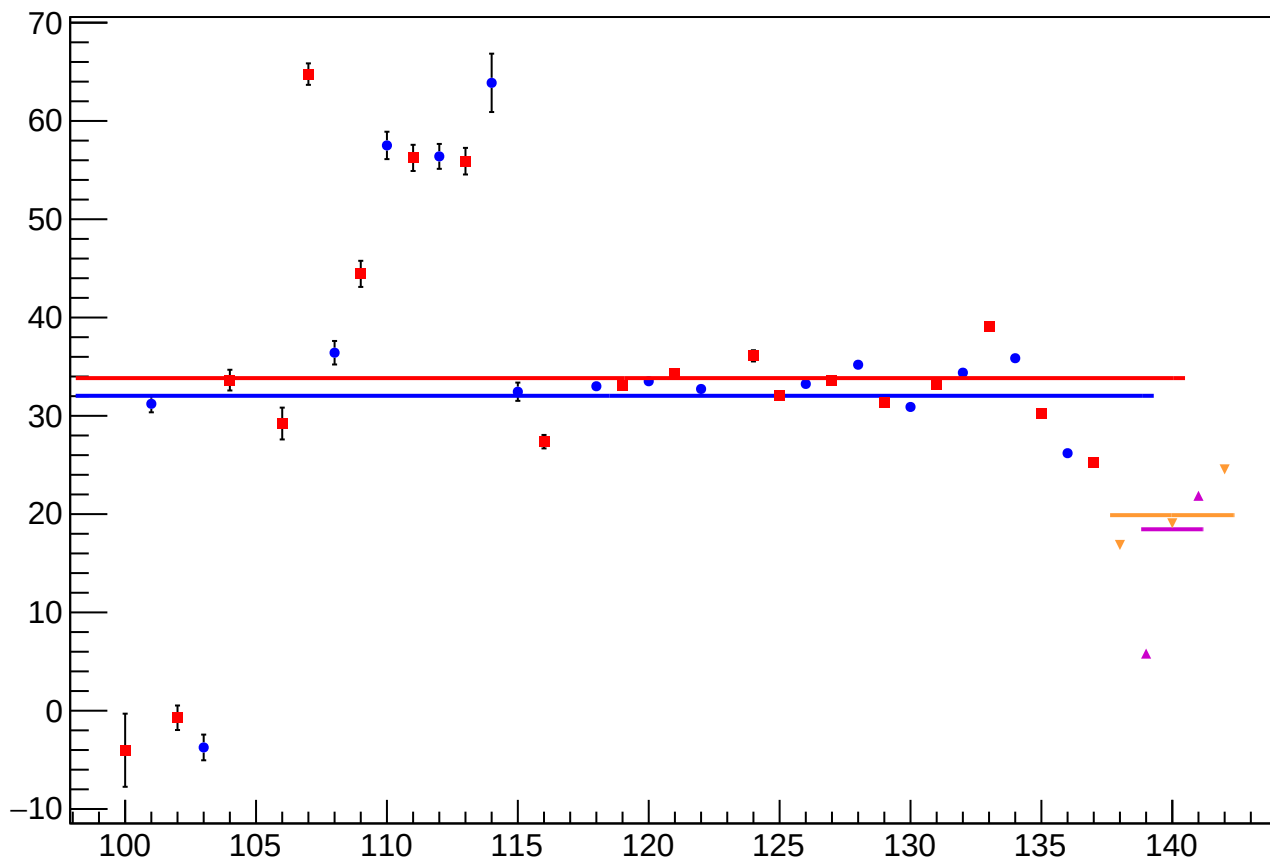
Right: -2.761 ± 0.059 χ^2/NDF : 16365.7/34

In: -4.037 ± 0.065 χ^2/NDF : 8948.3/17

Out: -3.387 ± 0.063 χ^2/NDF : 8364.7/21

All: -3.703 ± 0.045 χ^2/NDF : 17364.5/39

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.038+/-0.081 χ^2/NDF : 3255.9/15

Left Out: 19.894+/-0.090 χ^2/NDF : 916.3/2

Right Out: 33.837+/-0.082 χ^2/NDF : 4237.8/18

Left In: 18.457+/-0.113 χ^2/NDF : 3398.6/1

Left: 19.332+/-0.070 χ^2/NDF : 4413.9/4

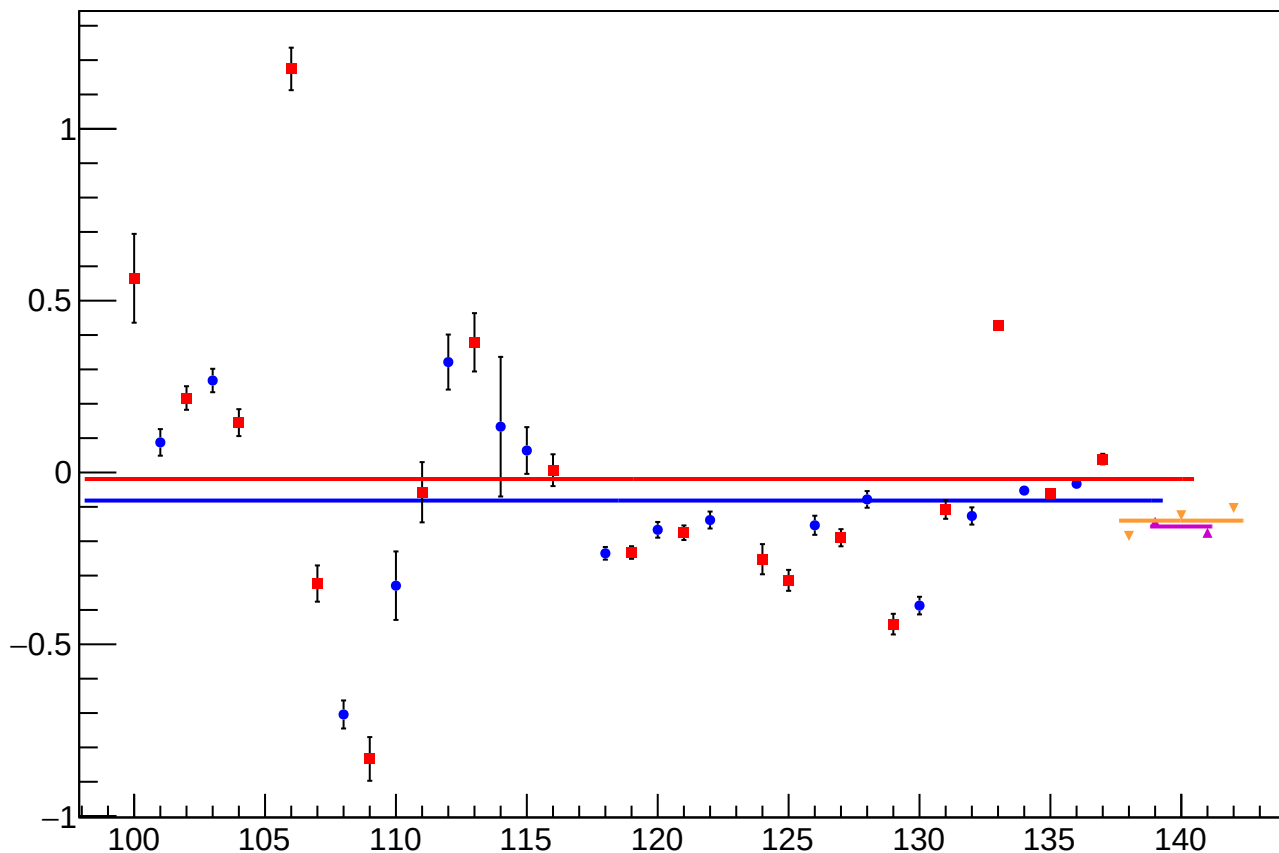
Right: 32.934+/-0.058 χ^2/NDF : 7737.6/34

In: 27.387+/-0.066 χ^2/NDF : 16214.0/17

Out: 27.573+/-0.061 χ^2/NDF : 18264.8/21

All: 27.488+/-0.045 χ^2/NDF : 34483.1/39

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.082 ± 0.005 χ^2/NDF : 689.2/15

Left Out: -0.140 ± 0.004 χ^2/NDF : 60.4/2

Right Out: -0.019 ± 0.005 χ^2/NDF : 2273.7/18

Left In: -0.157 ± 0.004 χ^2/NDF : 15.6/1

Left: -0.149 ± 0.003 χ^2/NDF : 85.2/4

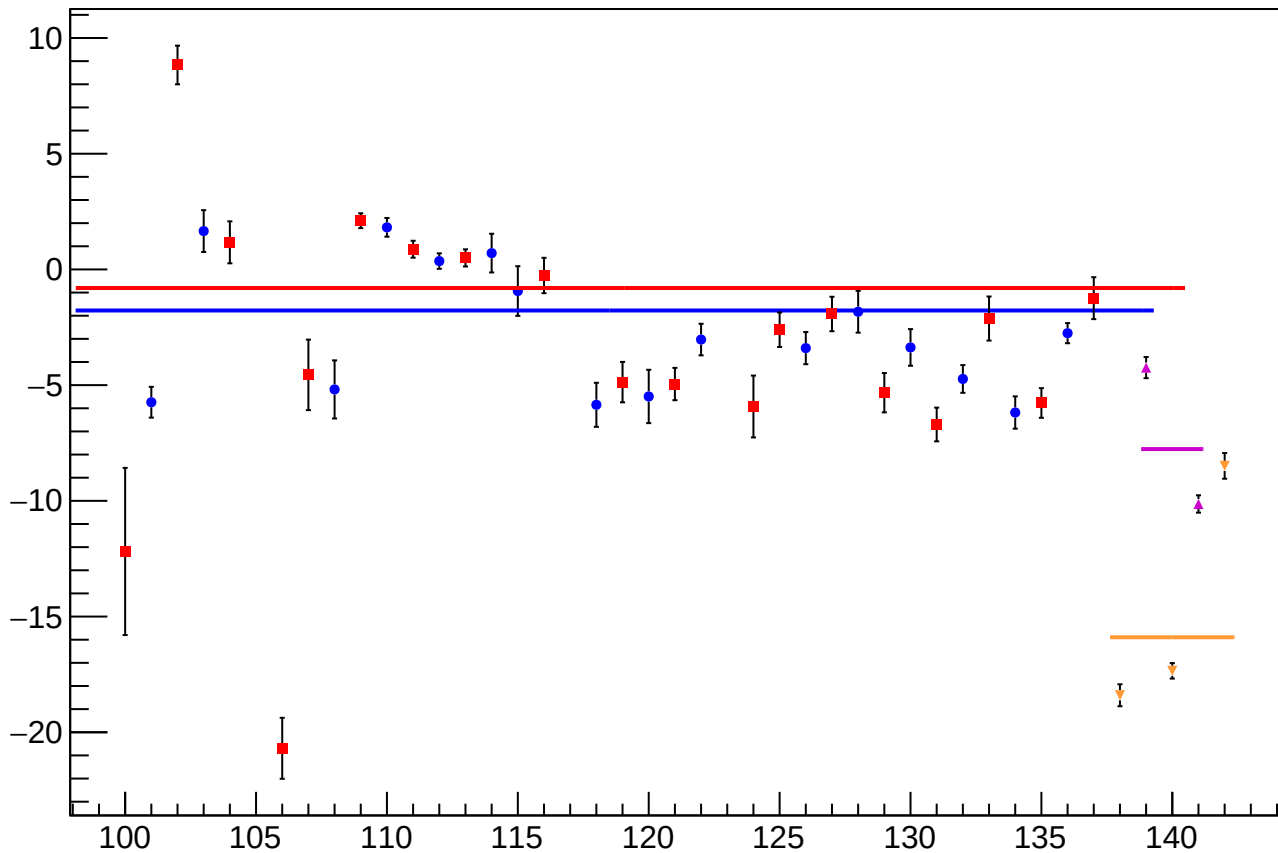
Right: -0.053 ± 0.004 χ^2/NDF : 3041.0/34

In: -0.127 ± 0.003 χ^2/NDF : 850.4/17

Out: -0.095 ± 0.003 χ^2/NDF : 2675.6/21

All: -0.111 ± 0.002 χ^2/NDF : 3577.0/39

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.775 ± 0.157 χ^2/NDF : 297.7/15

Left Out: -15.895 ± 0.246 χ^2/NDF : 224.4/2

Right Out: -0.803 ± 0.148 χ^2/NDF : 733.7/18

Left In: -7.763 ± 0.290 χ^2/NDF : 99.4/1

Left: -12.496 ± 0.187 χ^2/NDF : 781.9/4

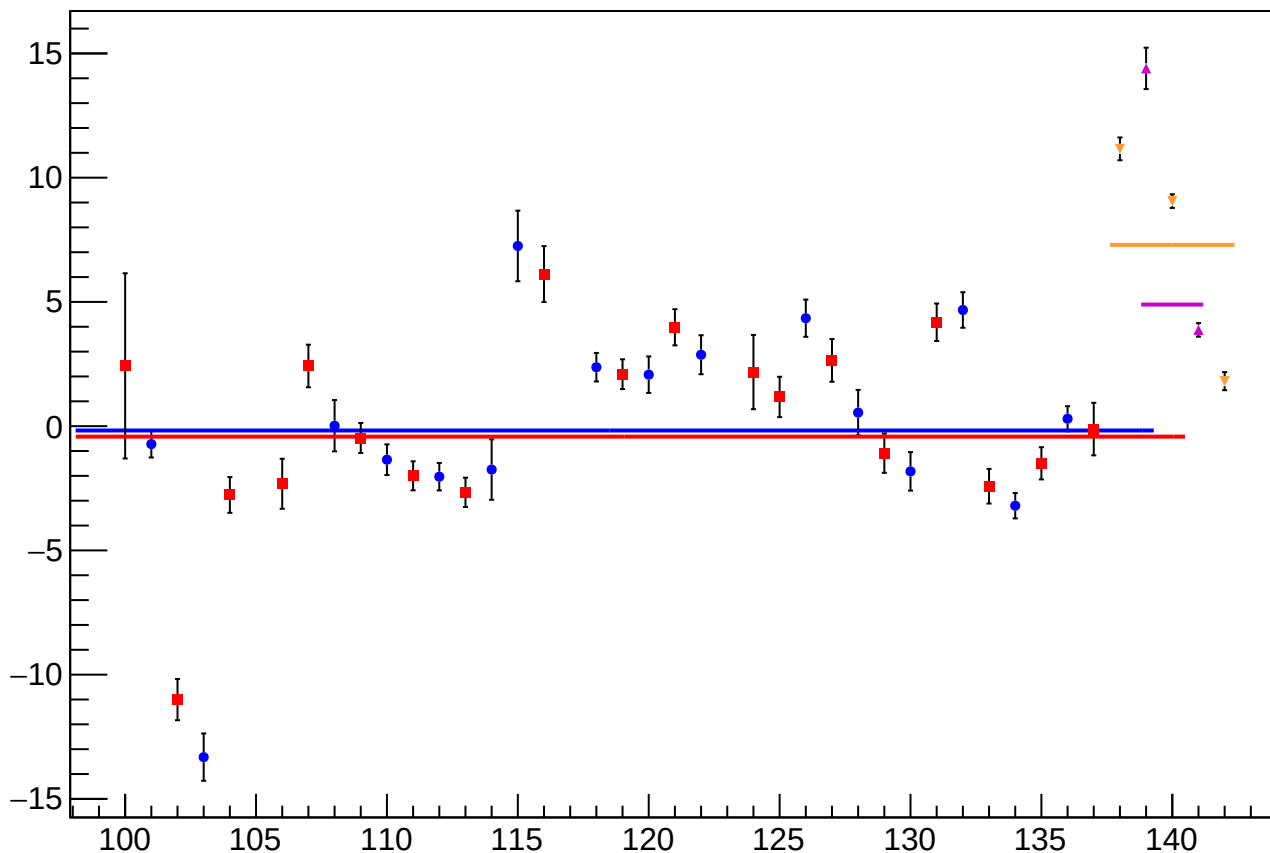
Right: -1.261 ± 0.108 χ^2/NDF : 1051.6/34

In: -3.135 ± 0.138 χ^2/NDF : 727.0/17

Out: -4.835 ± 0.127 χ^2/NDF : 3724.1/21

All: -4.056 ± 0.093 χ^2/NDF : 4533.1/39

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.174 ± 0.173 χ^2/NDF : 403.1/15

Left Out: 7.295 ± 0.199 χ^2/NDF : 338.1/2

Right Out: -0.421 ± 0.177 χ^2/NDF : 366.3/18

Left In: 4.894 ± 0.259 χ^2/NDF : 144.0/1

Left: 6.407 ± 0.158 χ^2/NDF : 536.2/4

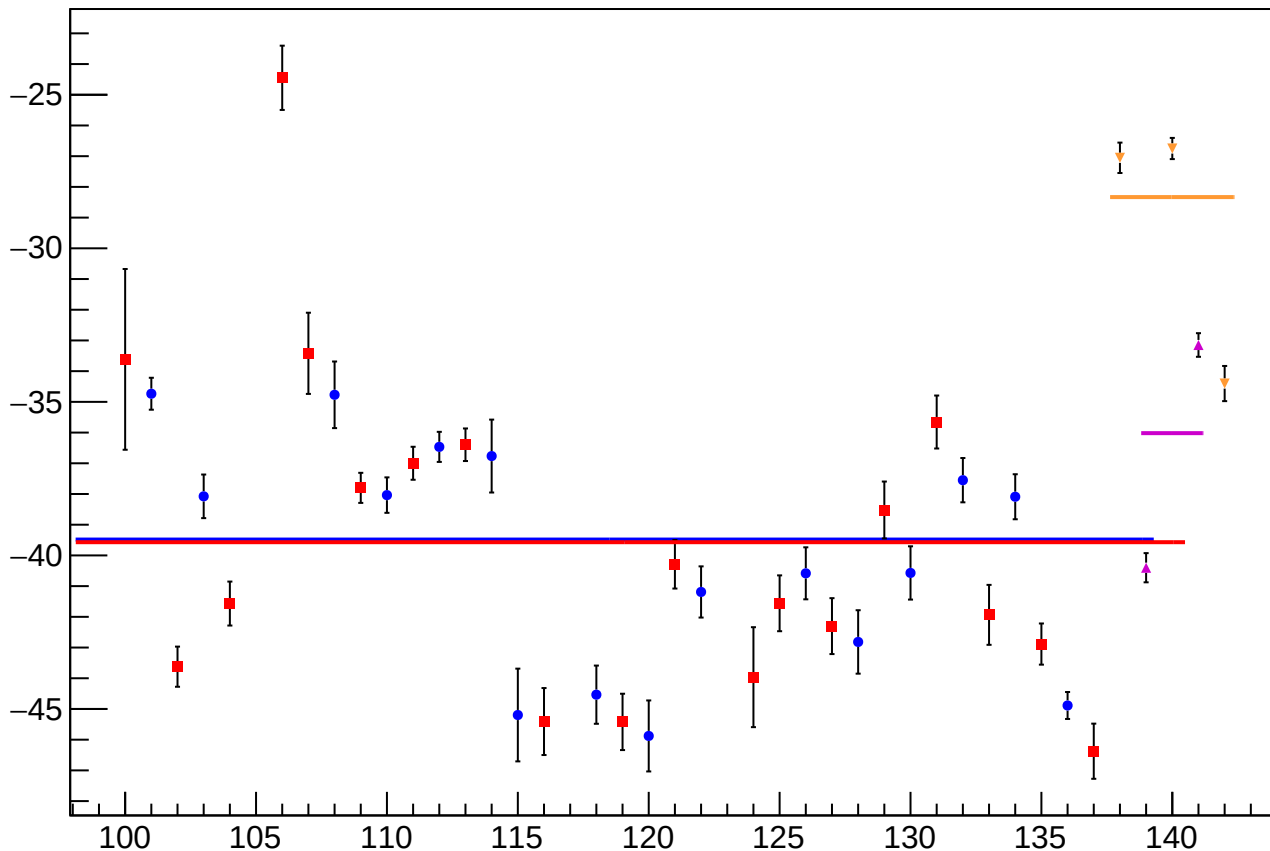
Right: -0.295 ± 0.124 χ^2/NDF : 770.4/34

In: 1.387 ± 0.144 χ^2/NDF : 811.5/17

Out: 2.999 ± 0.132 χ^2/NDF : 1544.8/21

All: 2.261 ± 0.097 χ^2/NDF : 2424.3/39

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -39.484 ± 0.180 χ^2/NDF : 409.3/15

Left Out: -28.332 ± 0.254 χ^2/NDF : 140.1/2

Right Out: -39.570 ± 0.181 χ^2/NDF : 553.5/18

Left In: -36.019 ± 0.299 χ^2/NDF : 140.6/1

Left: -31.549 ± 0.193 χ^2/NDF : 664.9/4

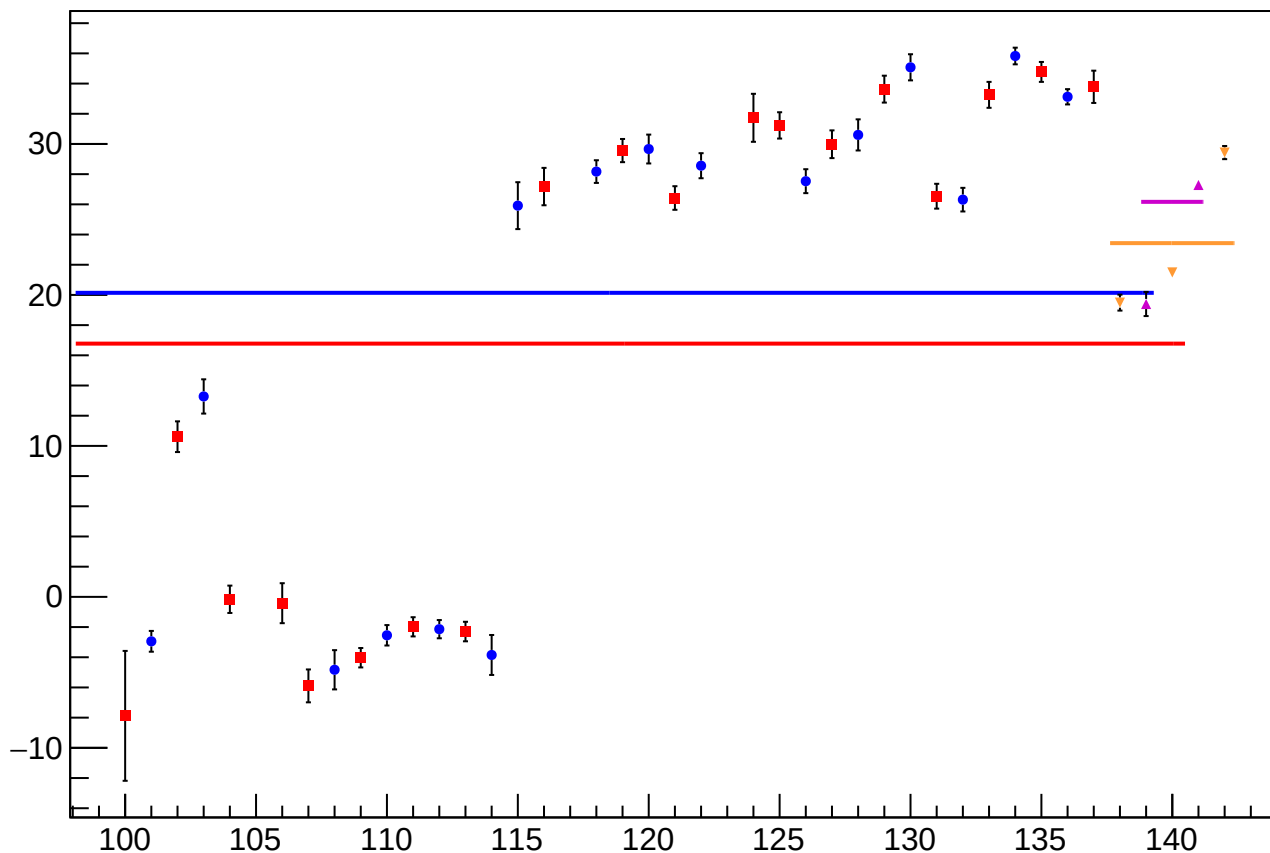
Right: -39.526 ± 0.128 χ^2/NDF : 962.9/34

In: -38.561 ± 0.154 χ^2/NDF : 648.4/17

Out: -35.780 ± 0.147 χ^2/NDF : 1994.0/21

All: -37.105 ± 0.107 χ^2/NDF : 2812.1/39

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.140 $\pm$ 0.195 χ^2 /NDF: 6684.6/15

Left Out: 23.431 $\pm$ 0.237 χ^2 /NDF: 279.4/2

Right Out: 16.775 $\pm$ 0.200 χ^2 /NDF: 6739.1/18

Left In: 26.166 $\pm$ 0.301 χ^2 /NDF: 83.3/1

Left: 24.474 $\pm$ 0.186 χ^2 /NDF: 413.8/4

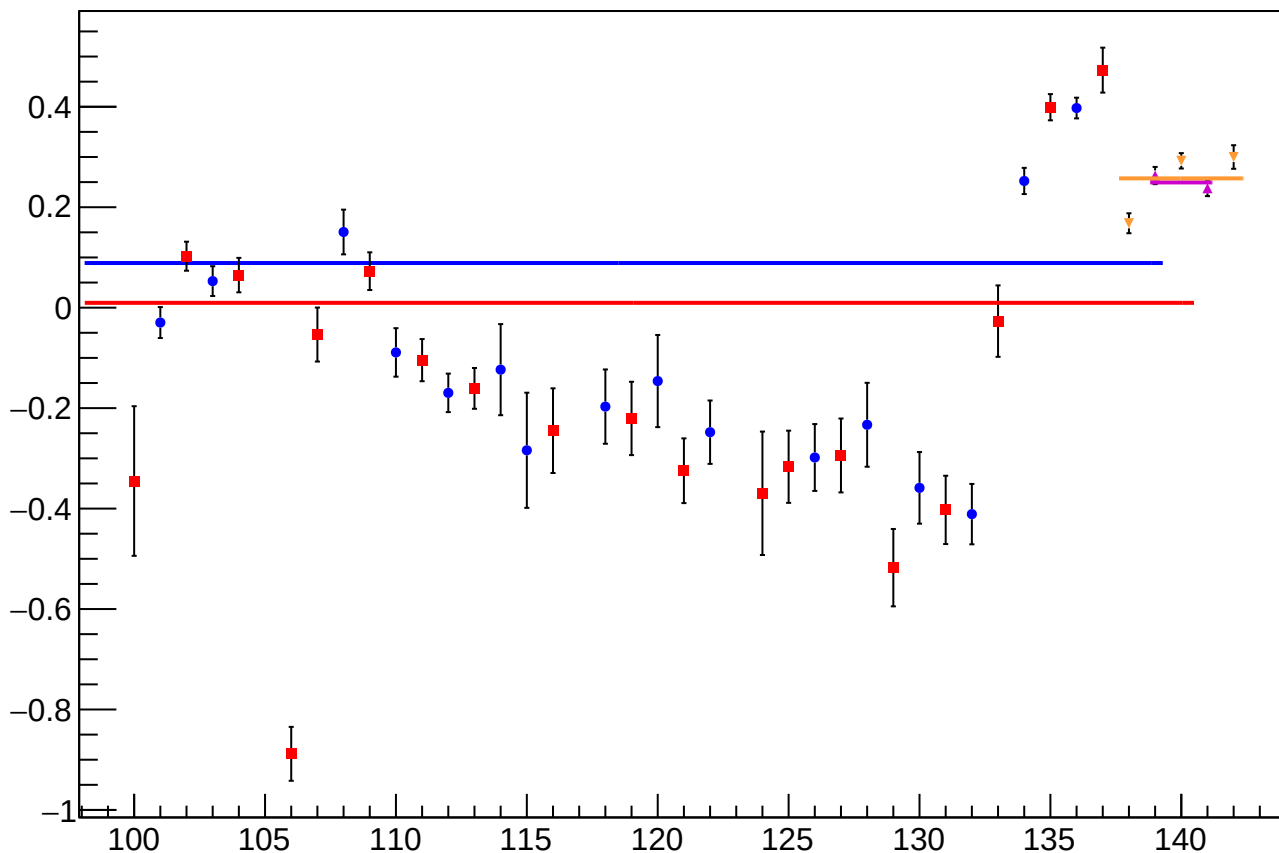
Right: 18.500 $\pm$ 0.139 χ^2 /NDF: 13569.2/34

In: 21.916 $\pm$ 0.164 χ^2 /NDF: 7050.3/17

Out: 19.545 $\pm$ 0.153 χ^2 /NDF: 7480.8/21

All: 20.649 $\pm$ 0.112 χ^2 /NDF: 14643.5/39

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.089 $\pm$ 0.010 χ^2 /NDF: 563.9/15

Left Out: 0.257 $\pm$ 0.011 χ^2 /NDF: 28.7/2

Right Out: 0.010 $\pm$ 0.011 χ^2 /NDF: 834.8/18

Left In: 0.249 $\pm$ 0.012 χ^2 /NDF: 1.2/1

Left: 0.254 $\pm$ 0.008 χ^2 /NDF: 30.2/4

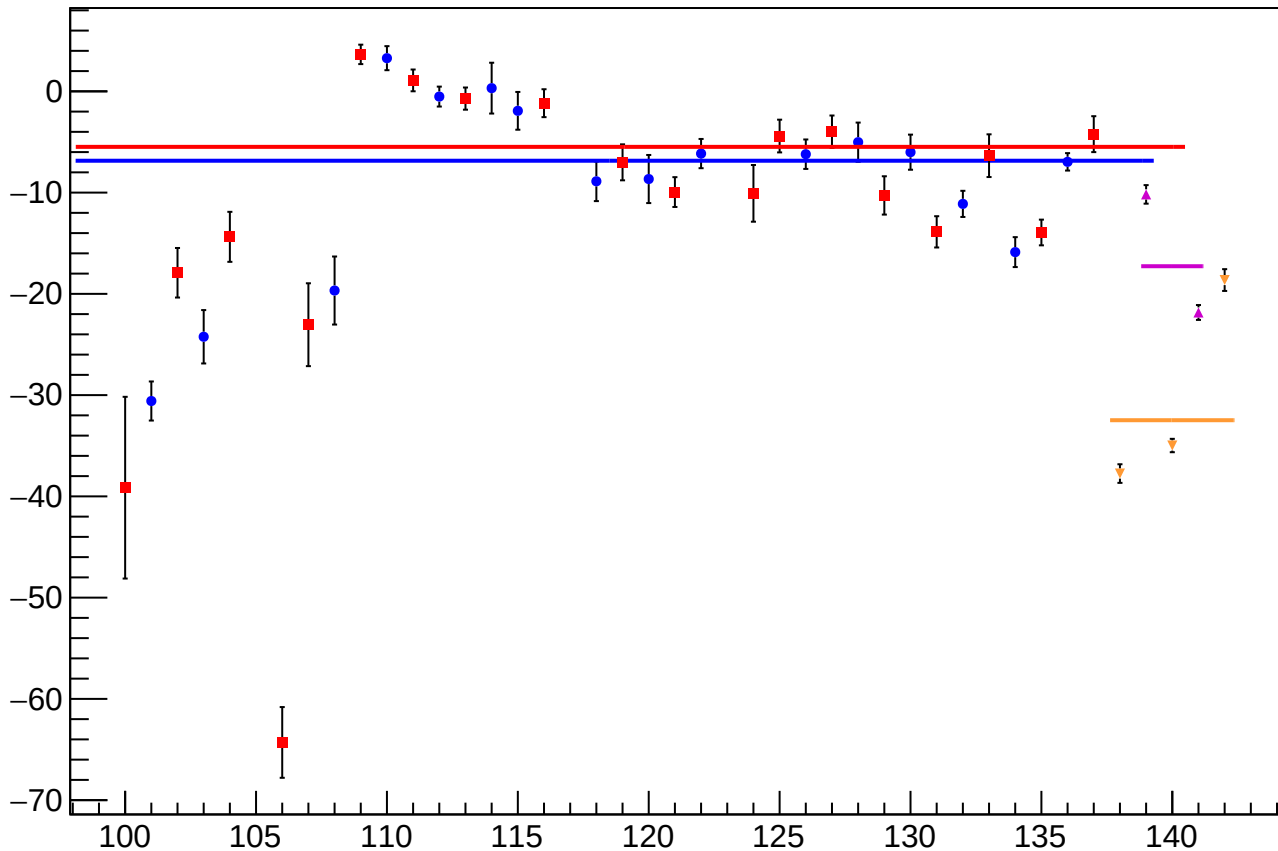
Right: 0.052 $\pm$ 0.008 χ^2 /NDF: 1426.1/34

In: 0.161 $\pm$ 0.008 χ^2 /NDF: 671.2/17

Out: 0.136 $\pm$ 0.008 χ^2 /NDF: 1122.1/21

All: 0.148 $\pm$ 0.005 χ^2 /NDF: 1798.2/39

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.853 ± 0.376 χ^2/NDF : 390.1/15

Left Out: -32.479 ± 0.480 χ^2/NDF : 212.7/2

Right Out: -5.483 ± 0.369 χ^2/NDF : 606.5/18

Left In: -17.271 ± 0.573 χ^2/NDF : 98.7/1

Left: -26.207 ± 0.368 χ^2/NDF : 725.3/4

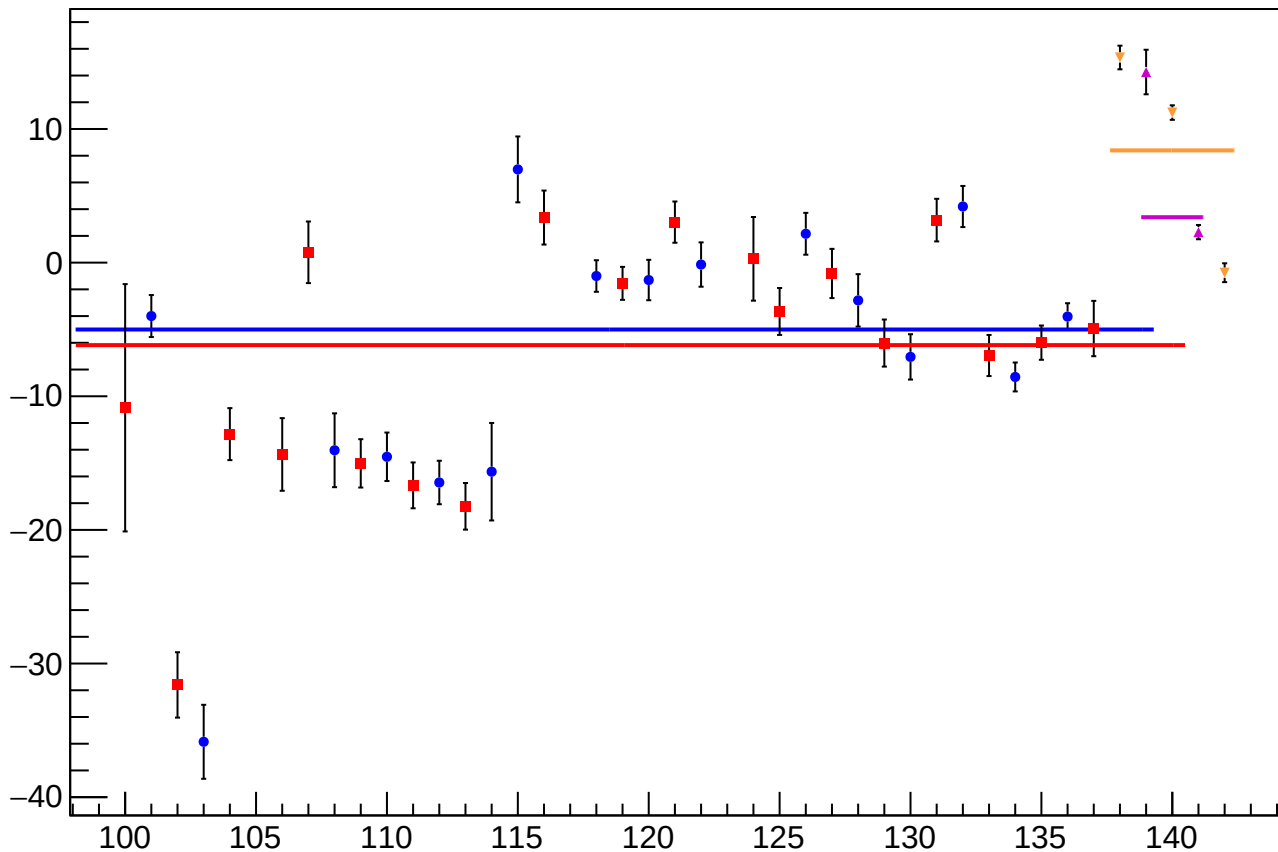
Right: -6.155 ± 0.263 χ^2/NDF : 1003.4/34

In: -9.983 ± 0.314 χ^2/NDF : 719.9/17

Out: -15.509 ± 0.293 χ^2/NDF : 2807.2/21

All: -12.942 ± 0.214 χ^2/NDF : 3692.8/39

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.005 ± 0.395 χ^2/NDF : 341.7/15

Left Out: 8.400 ± 0.387 χ^2/NDF : 257.4/2

Right Out: -6.173 ± 0.417 χ^2/NDF : 369.1/18

Left In: 3.399 ± 0.509 χ^2/NDF : 46.9/1

Left: 6.564 ± 0.308 χ^2/NDF : 365.5/4

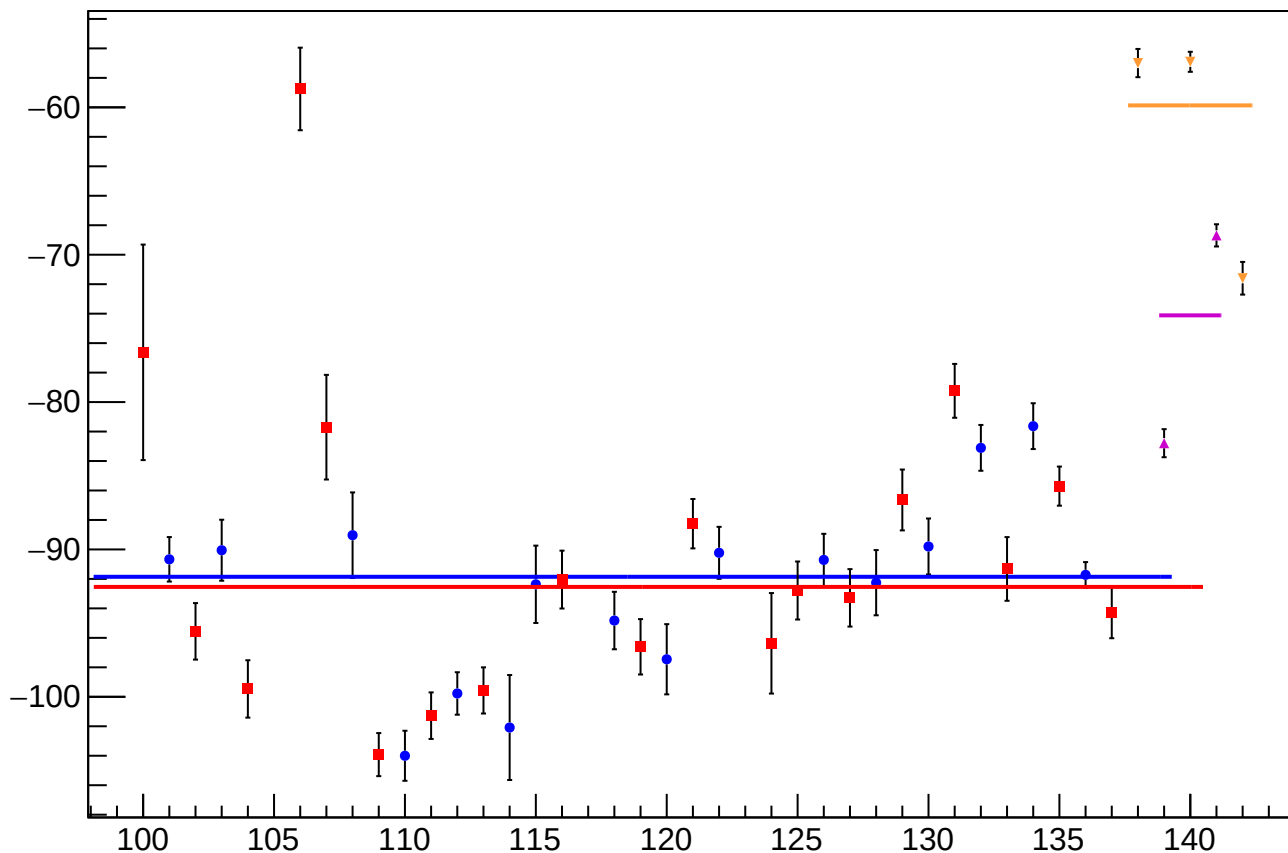
Right: -5.558 ± 0.287 χ^2/NDF : 715.0/34

In: -1.840 ± 0.312 χ^2/NDF : 558.8/17

Out: 1.642 ± 0.284 χ^2/NDF : 1282.9/21

All: 0.067 ± 0.210 χ^2/NDF : 1909.9/39

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -91.856 ± 0.424 χ^2/NDF : 177.3/15

Left Out: -59.867 ± 0.496 χ^2/NDF : 139.8/2

Right Out: -92.544 ± 0.439 χ^2/NDF : 387.8/18

Left In: -74.115 ± 0.591 χ^2/NDF : 134.7/1

Left: -65.750 ± 0.380 χ^2/NDF : 615.4/4

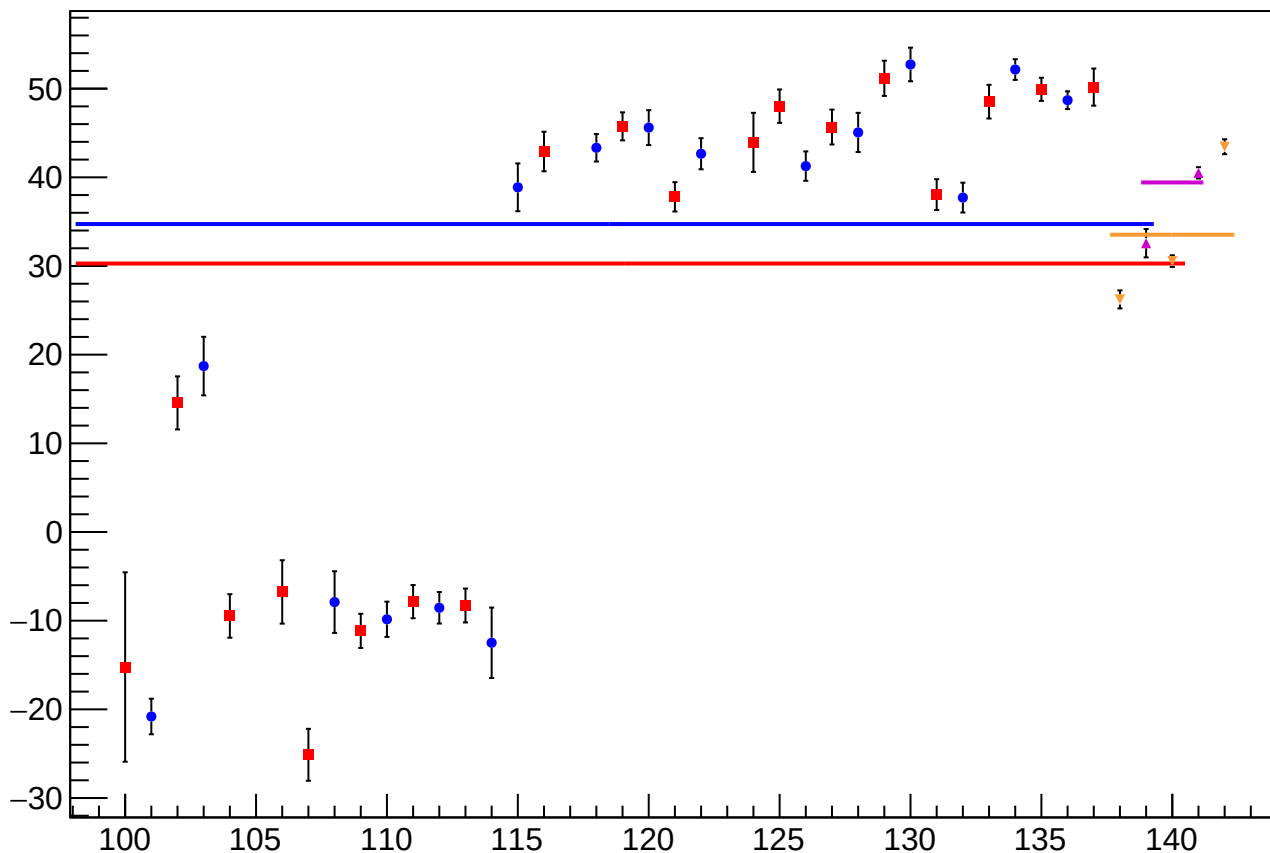
Right: -92.188 ± 0.305 χ^2/NDF : 566.3/34

In: -85.830 ± 0.345 χ^2/NDF : 906.5/17

Out: -78.175 ± 0.329 χ^2/NDF : 2961.1/21

All: -81.823 ± 0.238 χ^2/NDF : 4126.0/39

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 34.729 $\pm$ 0.442 χ^2 /NDF: 2809.1/15

Left Out: 33.527 $\pm$ 0.461 χ^2 /NDF:210.3/2

Right Out: 30.279 $\pm$ 0.467 χ^2 /NDF: 2911.2/18

Left In: 39.419 $\pm$ 0.592 χ^2 /NDF:21.3/1

Left: 35.756 $\pm$ 0.364 χ^2 /NDF: 293.2/4

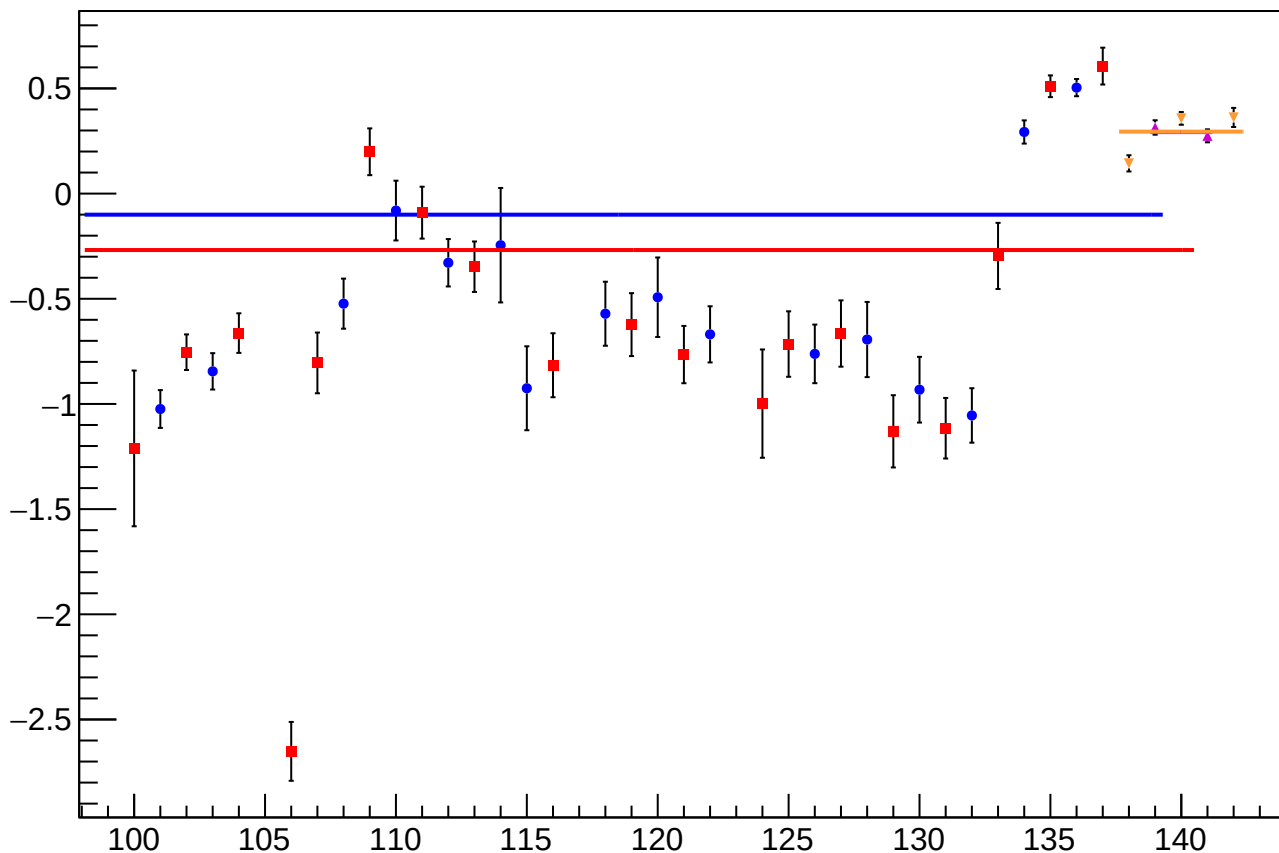
Right: 32.627 $\pm$ 0.321 χ^2 /NDF: 5768.2/34

In: 36.409 $\pm$ 0.354 χ^2 /NDF:2870.7/17

Out: 31.923 $\pm$ 0.328 χ^2 /NDF:3146.0/21

All: 33.997 $\pm$ 0.241 χ^2 /NDF: 6103.0/39

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.100 ± 0.024 χ^2/NDF : 631.4/15

Left Out: 0.295 ± 0.021 χ^2/NDF : 21.8/2

Right Out: -0.268 ± 0.026 χ^2/NDF : 822.4/18

Left In: 0.292 ± 0.023 χ^2/NDF : 0.7/1

Left: 0.294 ± 0.016 χ^2/NDF : 22.6/4

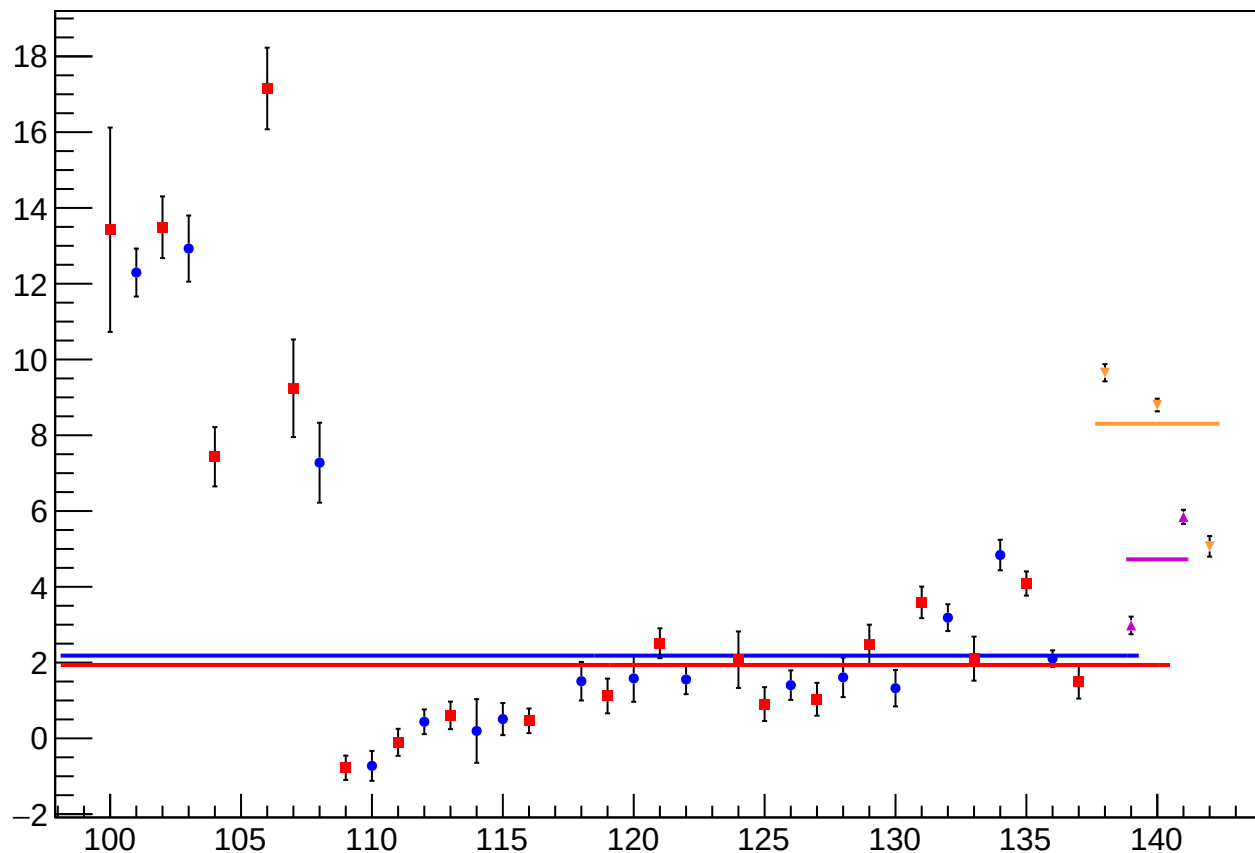
Right: -0.176 ± 0.018 χ^2/NDF : 1476.0/34

In: 0.105 ± 0.017 χ^2/NDF : 772.0/17

Out: 0.075 ± 0.016 χ^2/NDF : 1122.6/21

All: 0.090 ± 0.012 χ^2/NDF : 1896.3/39

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.184 ± 0.105 χ^2/NDF : 599.3/15

Left Out: 8.303 ± 0.121 χ^2/NDF : 184.9/2

Right Out: 1.936 ± 0.105 χ^2/NDF : 717.1/18

Left In: 4.725 ± 0.146 χ^2/NDF : 92.2/1

Left: 6.842 ± 0.093 χ^2/NDF : 634.4/4

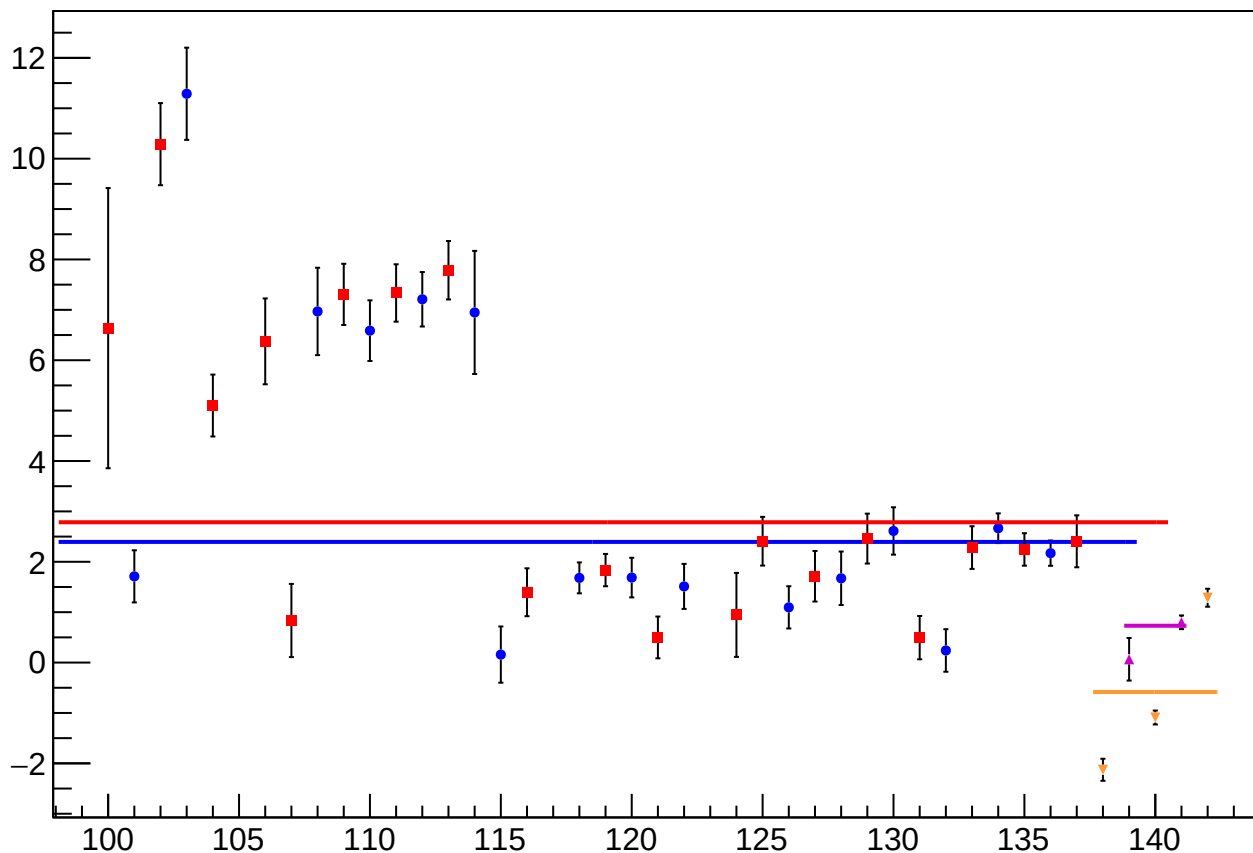
Right: 2.061 ± 0.074 χ^2/NDF : 1319.2/34

In: 3.052 ± 0.085 χ^2/NDF : 891.8/17

Out: 4.686 ± 0.080 χ^2/NDF : 2475.8/21

All: 3.926 ± 0.058 χ^2/NDF : 3564.2/39

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.394+/-0.108 χ^2/NDF : 333.9/15

Left Out: -0.584+/-0.098 χ^2/NDF :173.2/2

Right Out: 2.785+/-0.116 χ^2/NDF : 410.9/18

Left In: 0.731+/-0.129 χ^2/NDF :2.7/1

Left: -0.105+/-0.078 χ^2/NDF : 241.8/4

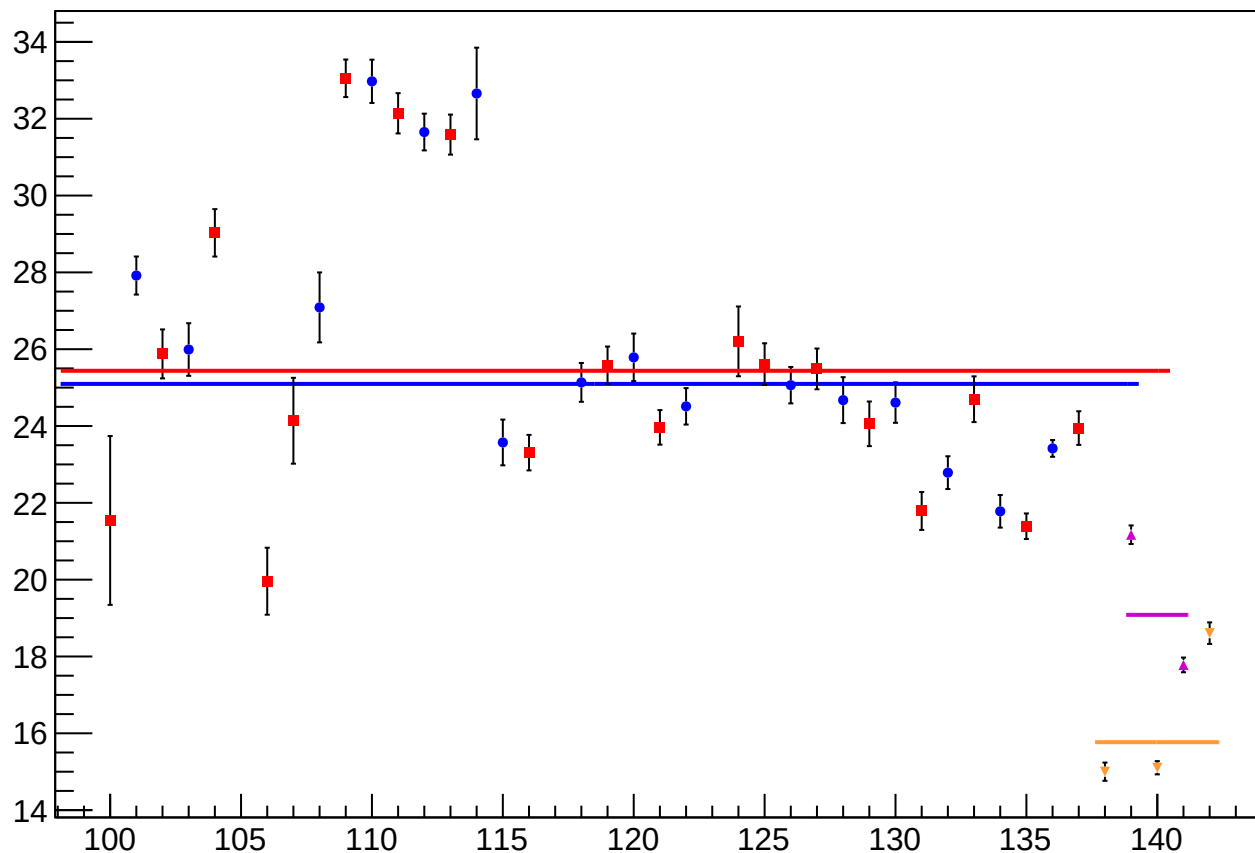
Right: 2.577+/-0.079 χ^2/NDF : 750.9/34

In: 1.708+/-0.083 χ^2/NDF :434.0/17

Out: 0.816+/-0.075 χ^2/NDF :1077.9/21

All: 1.215+/-0.056 χ^2/NDF : 1575.6/39

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.096 $\pm$ 0.118 χ^2 /NDF: 622.9/15

Left Out: 15.769 $\pm$ 0.125 χ^2 /NDF:127.6/2

Right Out: 25.438 $\pm$ 0.124 χ^2 /NDF: 877.6/18

Left In: 19.083 $\pm$ 0.150 χ^2 /NDF:120.4/1

Left: 17.124 $\pm$ 0.096 χ^2 /NDF: 535.6/4

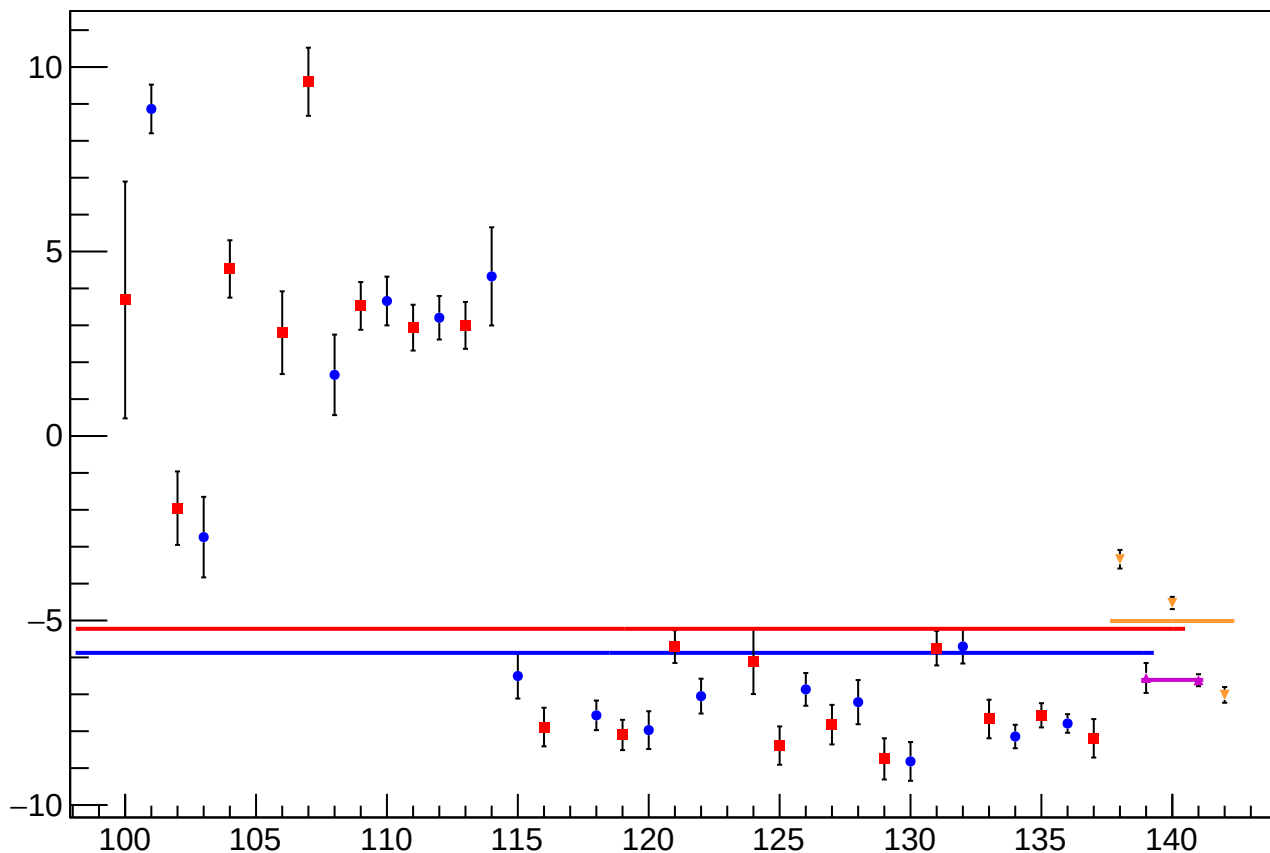
Right: 25.258 $\pm$ 0.085 χ^2 /NDF: 1504.5/34

In: 22.814 $\pm$ 0.093 χ^2 /NDF:1736.6/17

Out: 20.639 $\pm$ 0.088 χ^2 /NDF:4021.8/21

All: 21.672 $\pm$ 0.064 χ^2 /NDF: 6048.2/39

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.876 ± 0.121 χ^2/NDF : 1251.4/15

Left Out: -5.013 ± 0.116 χ^2/NDF : 140.7/2

Right Out: -5.225 ± 0.129 χ^2/NDF : 1292.0/18

Left In: -6.609 ± 0.150 χ^2/NDF : 0.0/1

Left: -5.612 ± 0.092 χ^2/NDF : 211.2/4

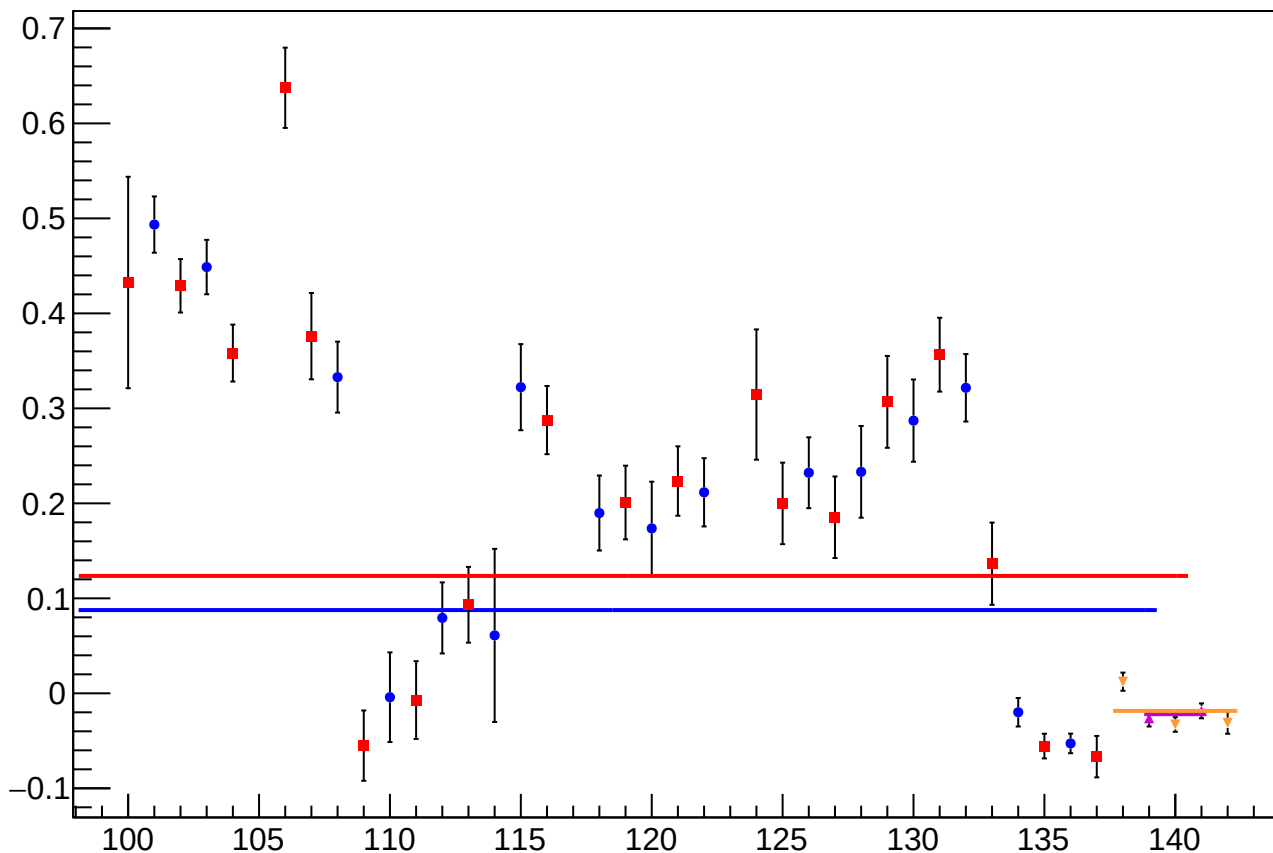
Right: -5.573 ± 0.088 χ^2/NDF : 2556.9/34

In: -6.164 ± 0.094 χ^2/NDF : 1265.9/17

Out: -5.108 ± 0.087 χ^2/NDF : 1434.1/21

All: -5.592 ± 0.064 χ^2/NDF : 2768.2/39

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.088 ± 0.007 χ^2/NDF : 768.0/15

Left Out: -0.019 ± 0.005 χ^2/NDF : 15.0/2

Right Out: 0.124 ± 0.007 χ^2/NDF : 762.3/18

Left In: -0.022 ± 0.006 χ^2/NDF : 0.4/1

Left: -0.020 ± 0.004 χ^2/NDF : 15.6/4

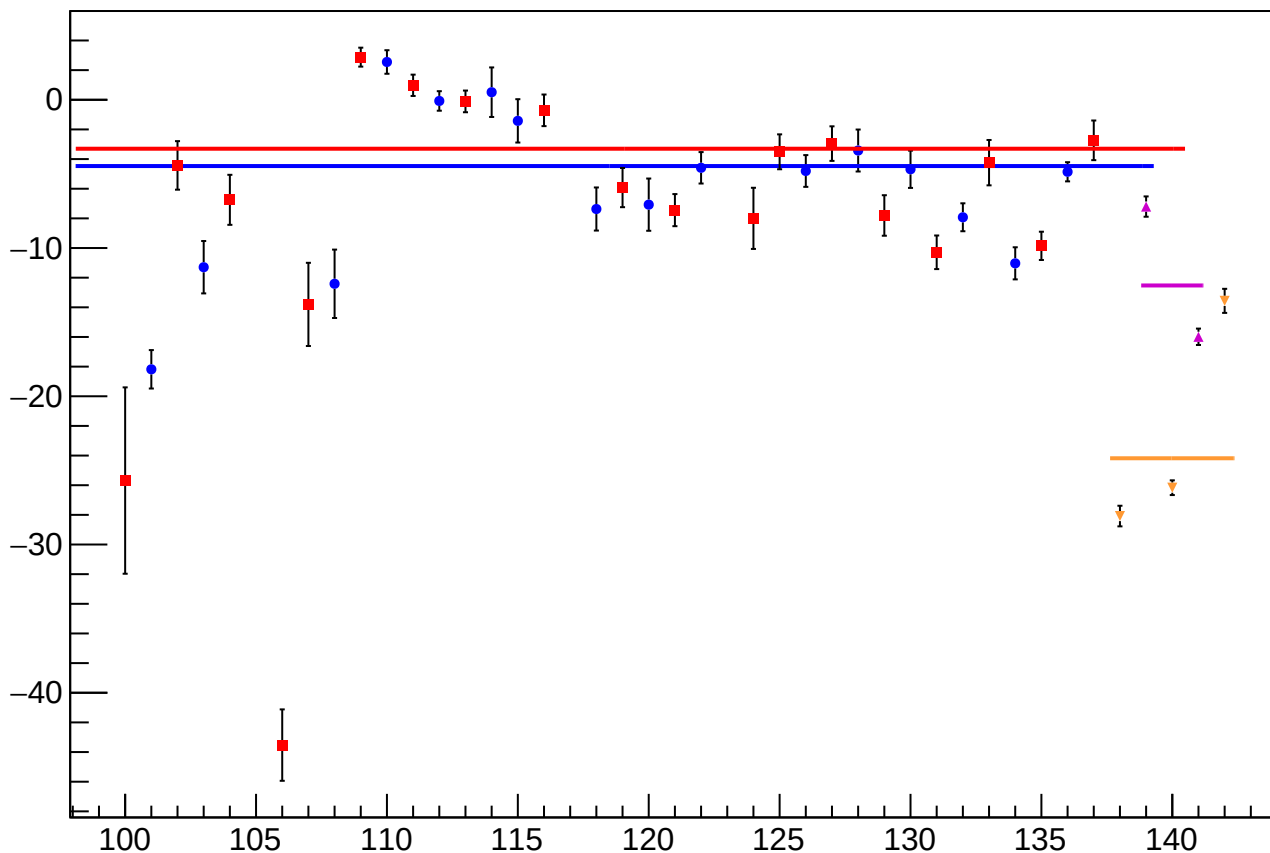
Right: 0.104 ± 0.005 χ^2/NDF : 1543.6/34

In: 0.026 ± 0.004 χ^2/NDF : 923.6/17

Out: 0.030 ± 0.004 χ^2/NDF : 1023.7/21

All: 0.028 ± 0.003 χ^2/NDF : 1947.8/39

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.471 ± 0.268 χ^2/NDF : 331.8/15

Left Out: -24.182 ± 0.362 χ^2/NDF : 218.6/2

Right Out: -3.302 ± 0.261 χ^2/NDF : 584.6/18

Left In: -12.526 ± 0.430 χ^2/NDF : 99.6/1

Left: -19.355 ± 0.277 χ^2/NDF : 748.5/4

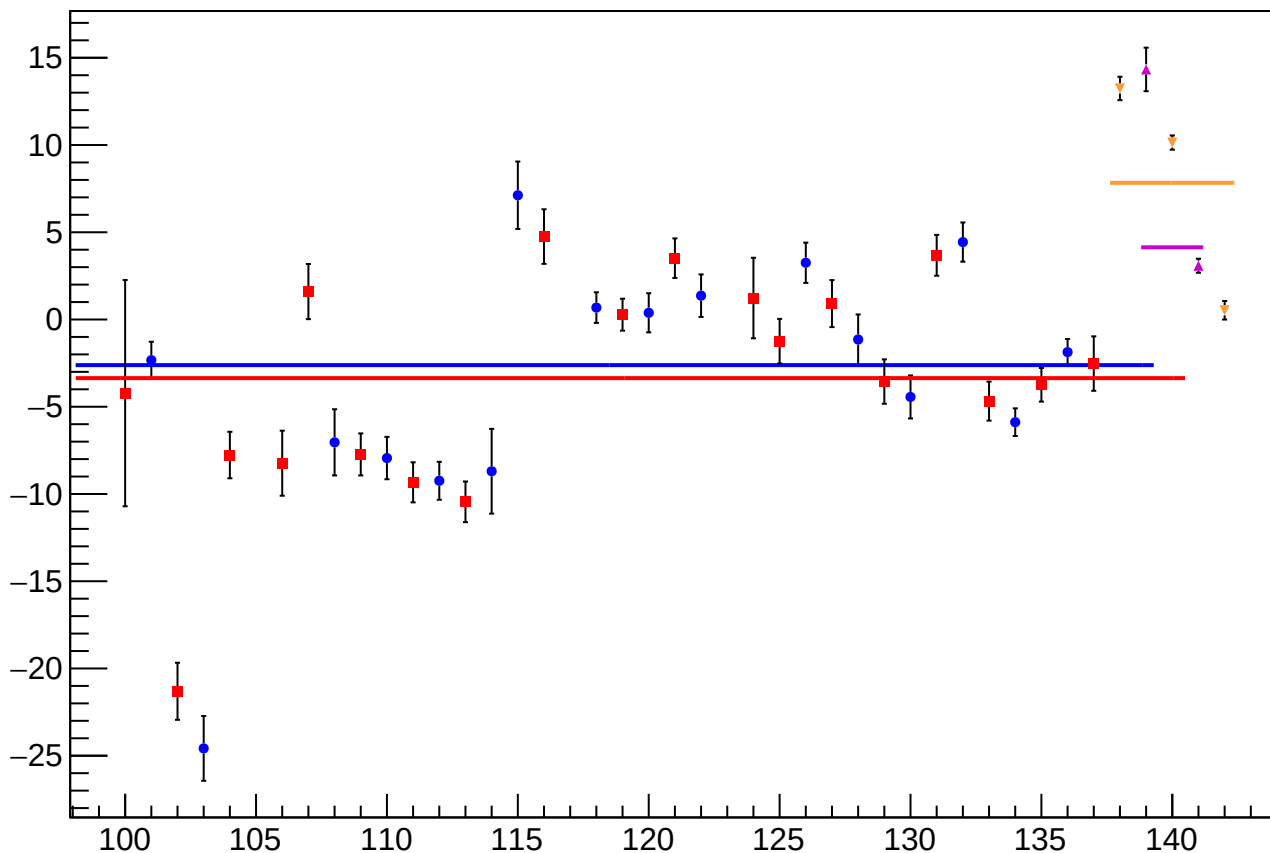
Right: -3.869 ± 0.187 χ^2/NDF : 926.1/34

In: -6.728 ± 0.228 χ^2/NDF : 683.8/17

Out: -10.447 ± 0.212 χ^2/NDF : 2996.3/21

All: -8.725 ± 0.155 χ^2/NDF : 3823.2/39

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.615+/-0.286 χ^2/NDF : 351.9/15

Left Out: 7.835+/-0.292 χ^2/NDF :285.5/2

Right Out: -3.359+/-0.299 χ^2/NDF : 359.6/18

Left In: 4.137+/-0.382 χ^2/NDF :73.7/1

Left: 6.474+/-0.232 χ^2/NDF : 418.2/4

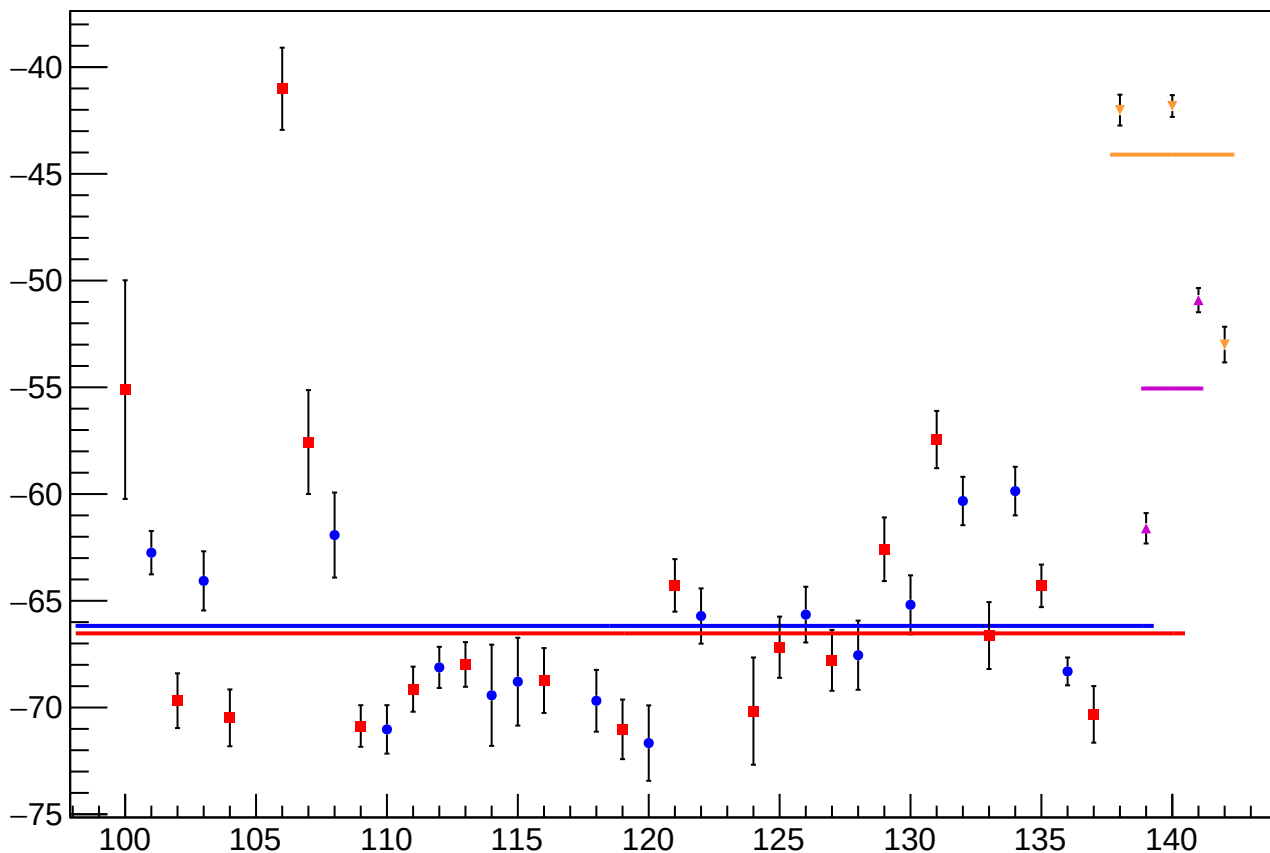
Right: -2.970+/-0.206 χ^2/NDF : 714.8/34

In: -0.196+/-0.229 χ^2/NDF :625.6/17

Out: 2.368+/-0.209 χ^2/NDF :1363.5/21

All: 1.203+/-0.154 χ^2/NDF : 2057.6/39

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.176 $\pm$ 0.304 χ^2 /NDF: 129.2/15

Left Out: -44.099 $\pm$ 0.373 χ^2 /NDF:141.2/2

Right Out: -66.526 $\pm$ 0.312 χ^2 /NDF: 321.7/18

Left In: -55.055 $\pm$ 0.444 χ^2 /NDF:137.7/1

Left: -48.642 $\pm$ 0.286 χ^2 /NDF: 635.7/4

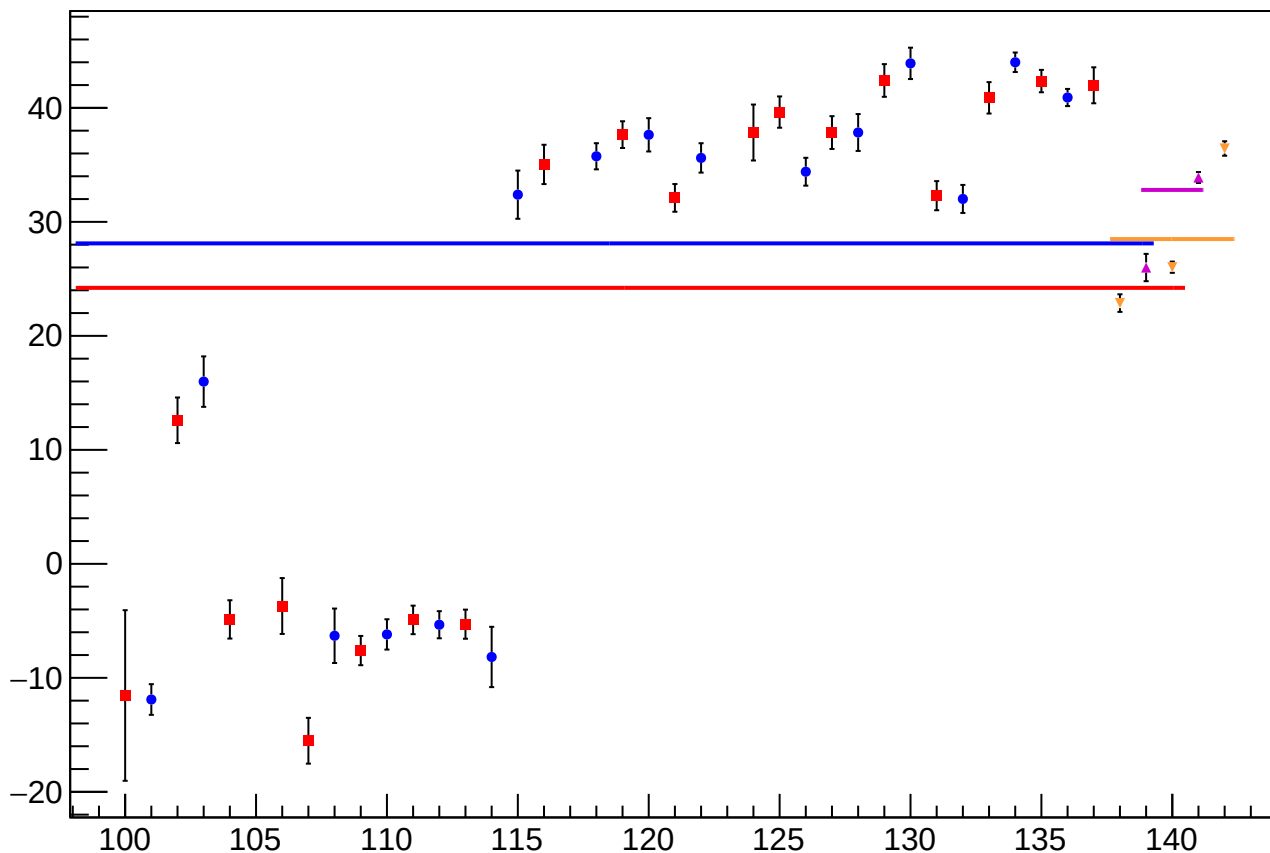
Right: -66.346 $\pm$ 0.218 χ^2 /NDF: 451.5/34

In: -62.619 $\pm$ 0.251 χ^2 /NDF:693.9/17

Out: -57.292 $\pm$ 0.240 χ^2 /NDF:2584.0/21

All: -59.833 $\pm$ 0.173 χ^2 /NDF: 3513.6/39

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.112 $\pm$ 0.320 χ^2 /NDF: 3727.7/15

Left Out: 28.493 $\pm$ 0.348 χ^2 /NDF:234.1/2

Right Out: 24.212 $\pm$ 0.336 χ^2 /NDF: 3841.7/18

Left In: 32.803 $\pm$ 0.445 χ^2 /NDF:37.5/1

Left: 30.128 $\pm$ 0.274 χ^2 /NDF: 329.9/4

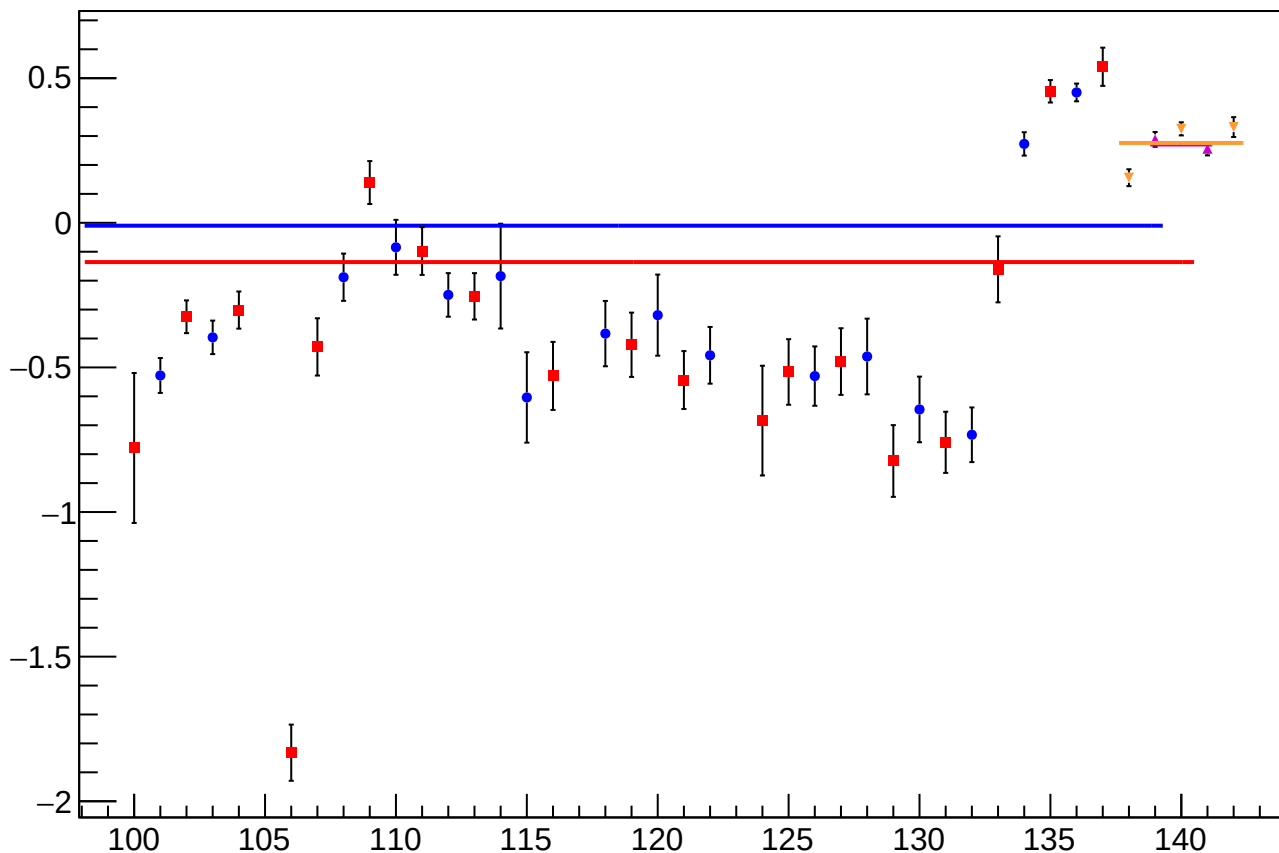
Right: 26.255 $\pm$ 0.232 χ^2 /NDF: 7640.1/34

In: 29.712 $\pm$ 0.260 χ^2 /NDF:3838.5/17

Out: 26.277 $\pm$ 0.241 χ^2 /NDF:4154.2/21

All: 27.869 $\pm$ 0.177 χ^2 /NDF: 8086.6/39

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.017 χ^2/NDF : 587.4/15

Left Out: 0.276 ± 0.016 χ^2/NDF : 24.2/2

Right Out: -0.136 ± 0.019 χ^2/NDF : 818.5/18

Left In: 0.271 ± 0.017 χ^2/NDF : 0.9/1

Left: 0.274 ± 0.012 χ^2/NDF : 25.1/4

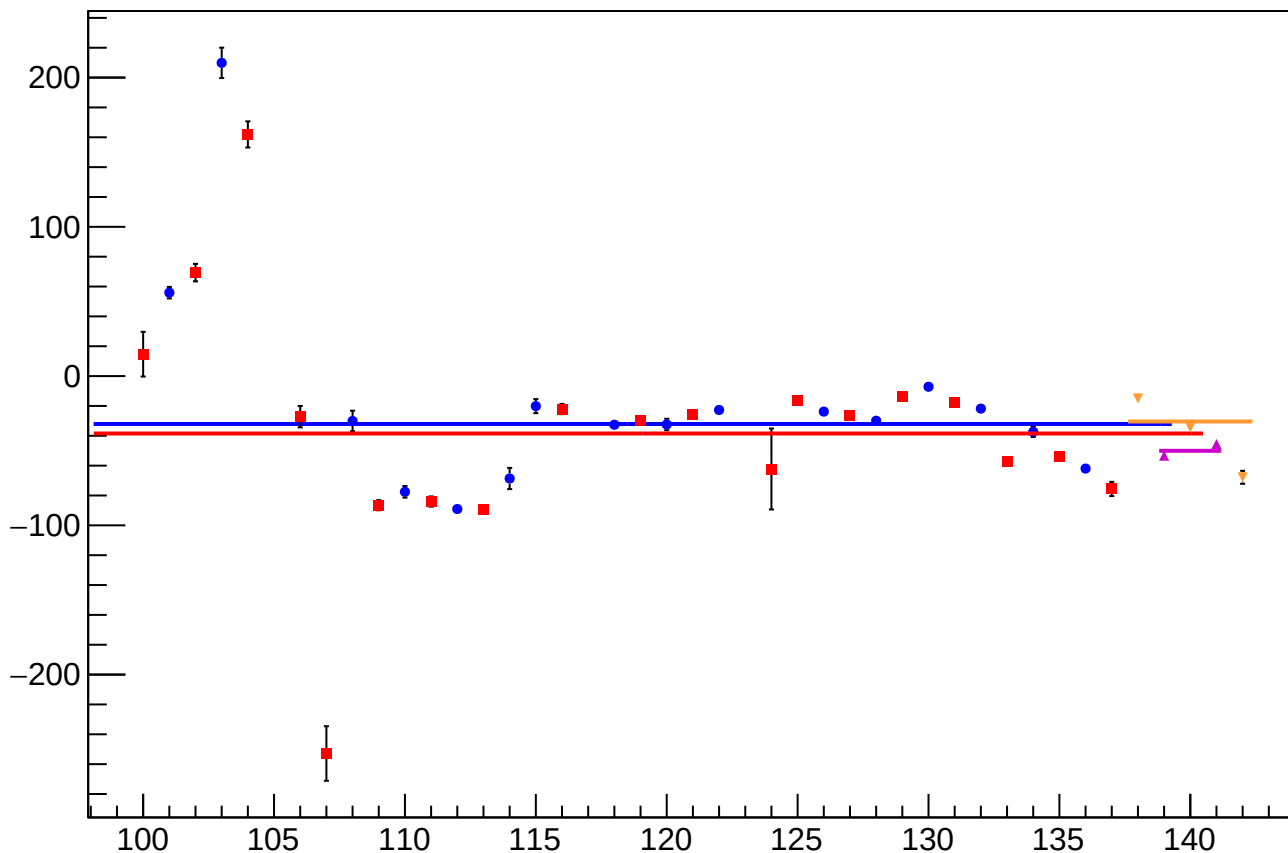
Right: -0.068 ± 0.013 χ^2/NDF : 1430.0/34

In: 0.131 ± 0.012 χ^2/NDF : 720.4/17

Out: 0.105 ± 0.012 χ^2/NDF : 1122.3/21

All: 0.118 ± 0.009 χ^2/NDF : 1845.0/39

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.117 ± 0.843 $\chi^2/\text{NDF}: 1877.5/15$

Left Out: -30.421 ± 1.630 $\chi^2/\text{NDF}: 116.2/2$

Right Out: -38.462 ± 0.864 $\chi^2/\text{NDF}: 1972.5/18$

Left In: -50.059 ± 1.856 $\chi^2/\text{NDF}: 4.3/1$

Left: -38.973 ± 1.225 $\chi^2/\text{NDF}: 183.8/4$

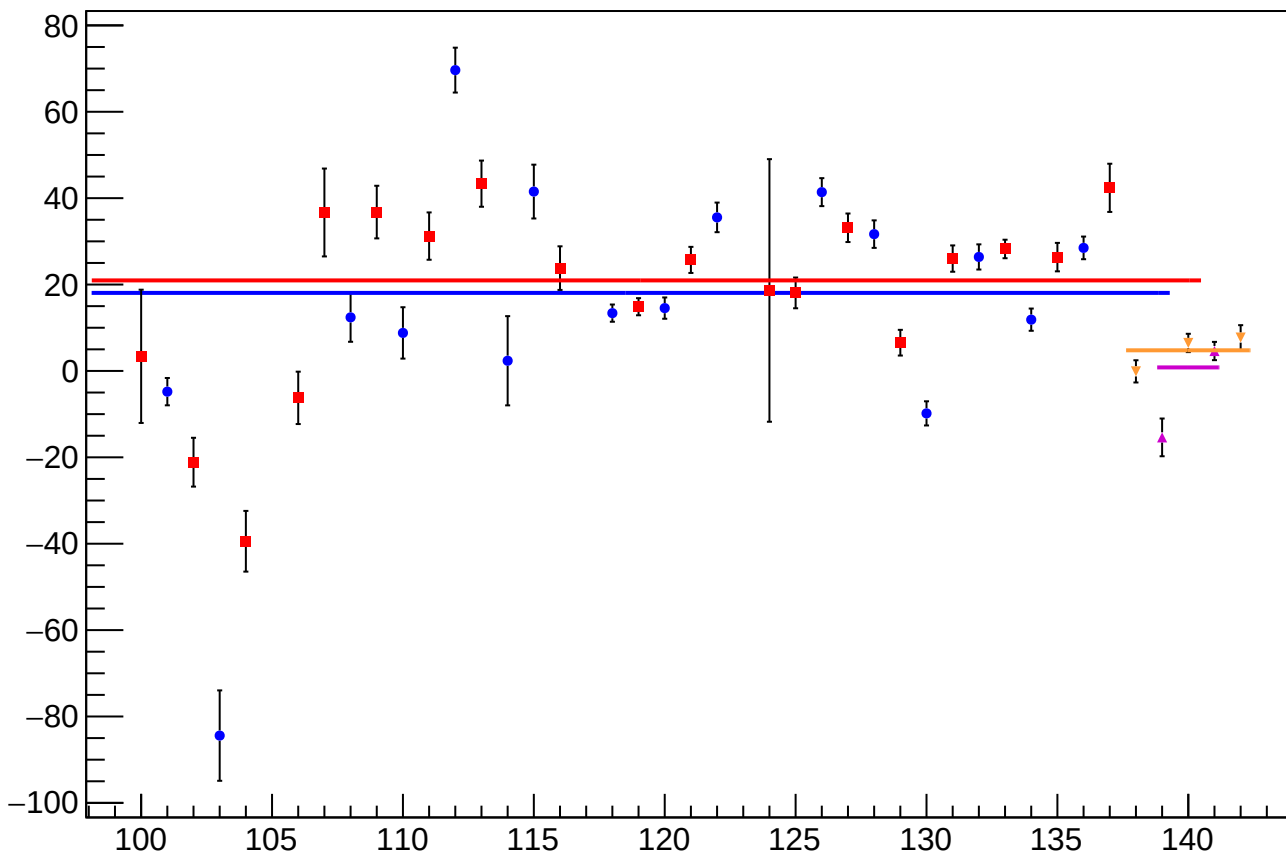
Right: -35.208 ± 0.603 $\chi^2/\text{NDF}: 3877.6/34$

In: -35.184 ± 0.767 $\chi^2/\text{NDF}: 1959.3/17$

Out: -36.696 ± 0.764 $\chi^2/\text{NDF}: 2107.8/21$

All: -35.944 ± 0.541 $\chi^2/\text{NDF}: 4069.0/39$

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 18.068 $\pm$ 0.823 χ^2 /NDF: 499.6/15

Left Out: 4.776 $\pm$ 1.421 χ^2 /NDF: 5.3/2

Right Out: 20.959 $\pm$ 0.868 χ^2 /NDF: 262.6/18

Left In: 0.816 $\pm$ 1.903 χ^2 /NDF: 17.0/1

Left: 3.358 $\pm$ 1.139 χ^2 /NDF: 25.1/4

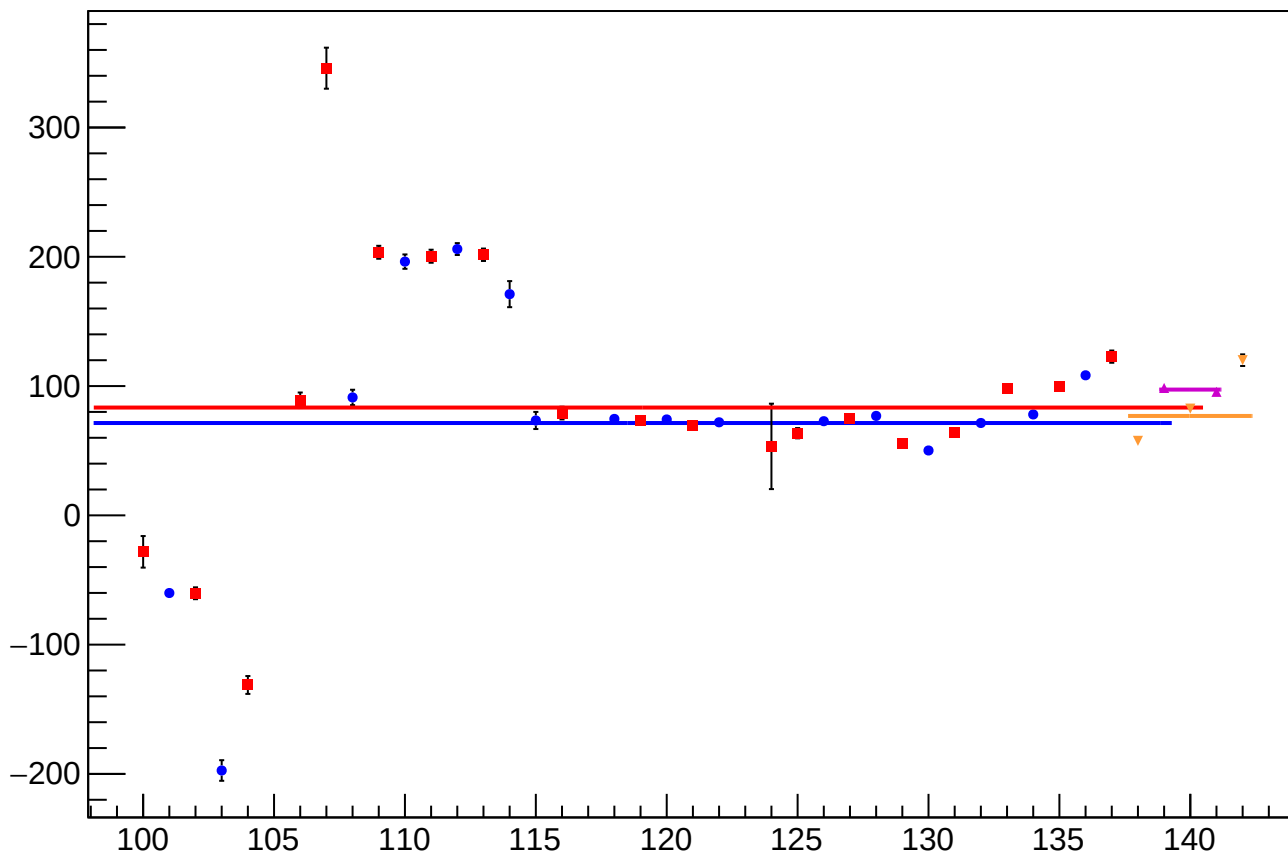
Right: 19.435 $\pm$ 0.597 χ^2 /NDF: 768.0/34

In: 15.352 $\pm$ 0.755 χ^2 /NDF: 585.8/17

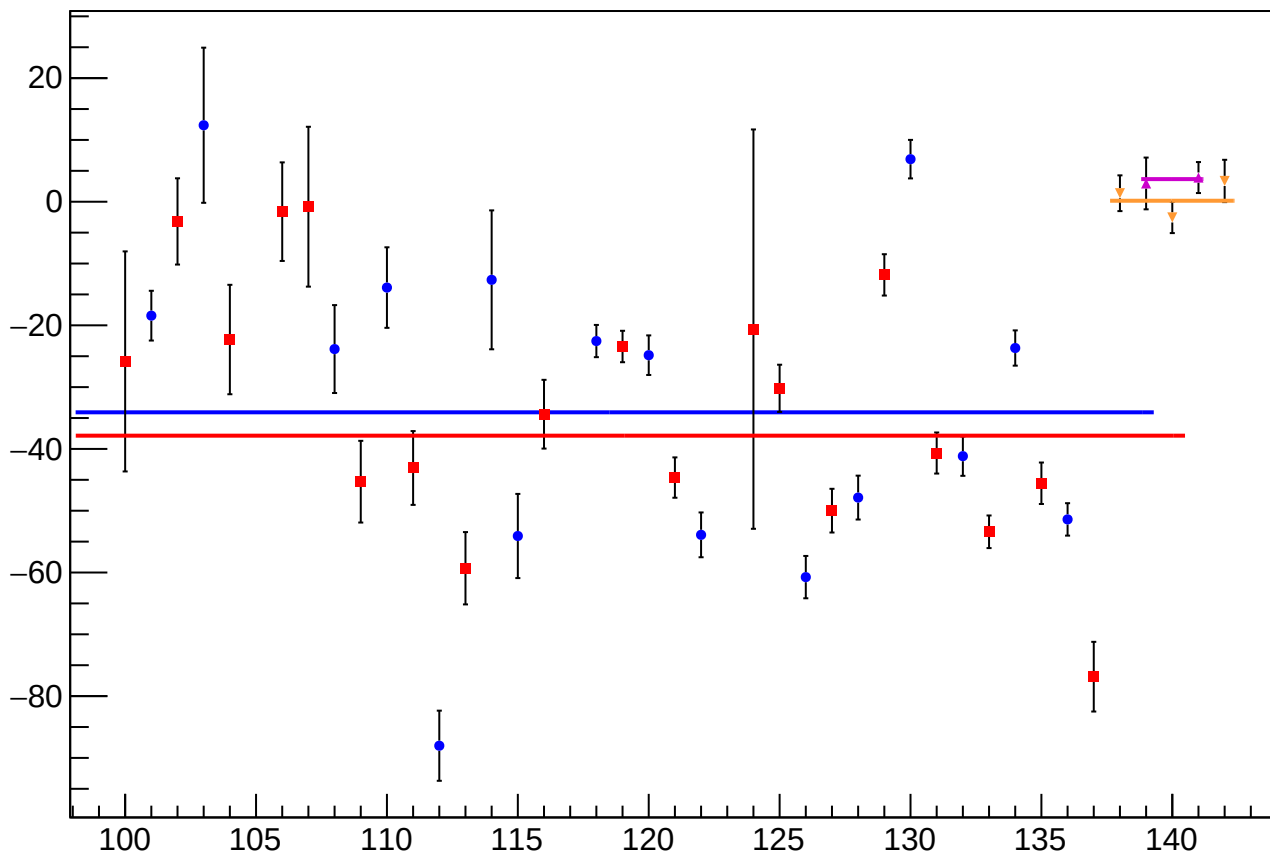
Out: 16.560 $\pm$ 0.741 χ^2 /NDF: 362.3/21

All: 15.967 $\pm$ 0.529 χ^2 /NDF: 949.4/39

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.077 ± 0.942 $\chi^2/\text{NDF}: 511.2/15$

Left Out: 0.161 ± 1.666 $\chi^2/\text{NDF}: 2.2/2$

Right Out: -37.855 ± 0.994 $\chi^2/\text{NDF}: 274.6/18$

Left In: 3.661 ± 2.152 $\chi^2/\text{NDF}: 0.0/1$

Left: 1.473 ± 1.318 $\chi^2/\text{NDF}: 3.9/4$

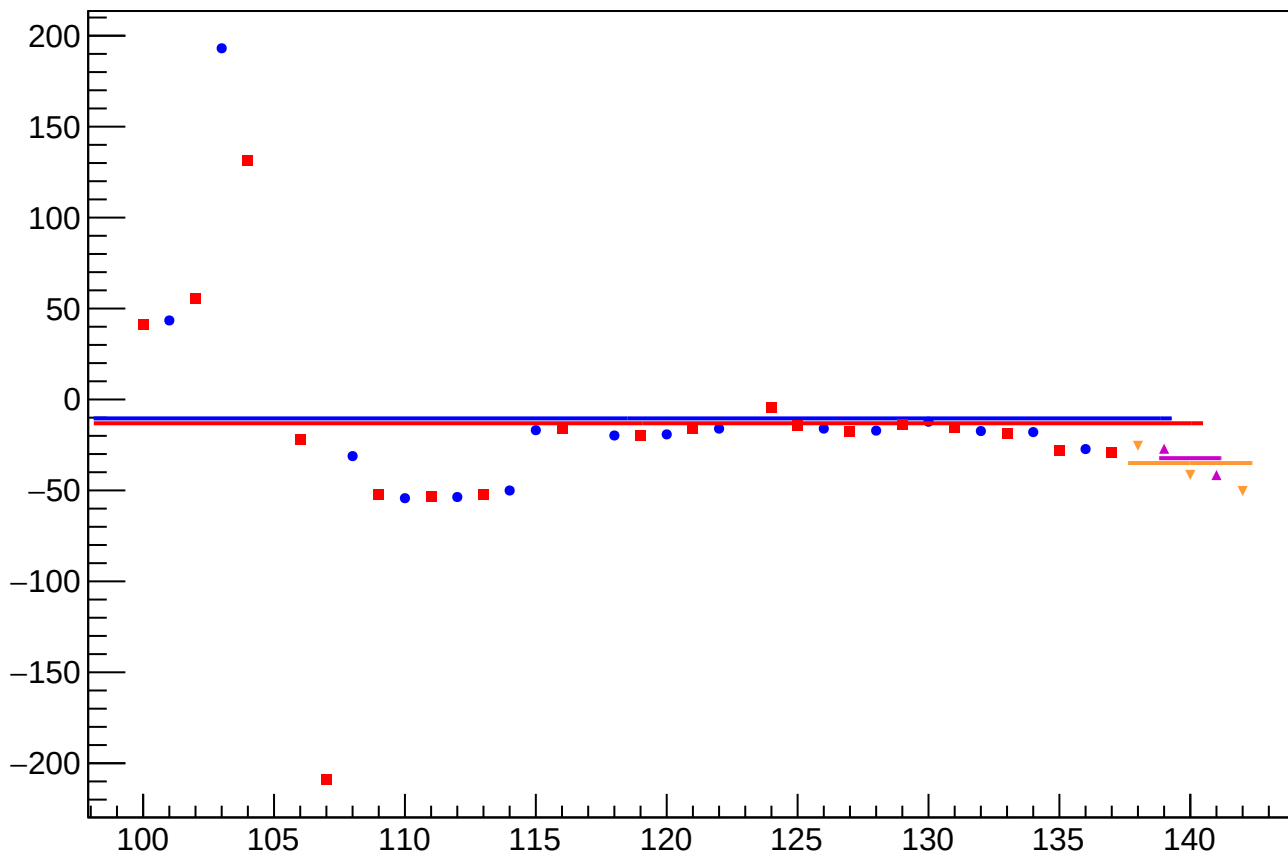
Right: -35.865 ± 0.684 $\chi^2/\text{NDF}: 793.4/34$

In: -28.005 ± 0.863 $\chi^2/\text{NDF}: 769.3/17$

Out: -27.882 ± 0.854 $\chi^2/\text{NDF}: 660.7/21$

All: -27.943 ± 0.607 $\chi^2/\text{NDF}: 1430.0/39$

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -10.400 $\pm$ 0.057 χ^2 /NDF: 522334.6/15

Left Out: -34.949 $\pm$ 0.070 χ^2 /NDF:19137.5/2

Right Out: -13.074 $\pm$ 0.063 χ^2 /NDF: 449609.3/18

Left In: -32.272 $\pm$ 0.072 χ^2 /NDF:9270.4/1

Left: -33.650 $\pm$ 0.050 χ^2 /NDF: 29116.9/4

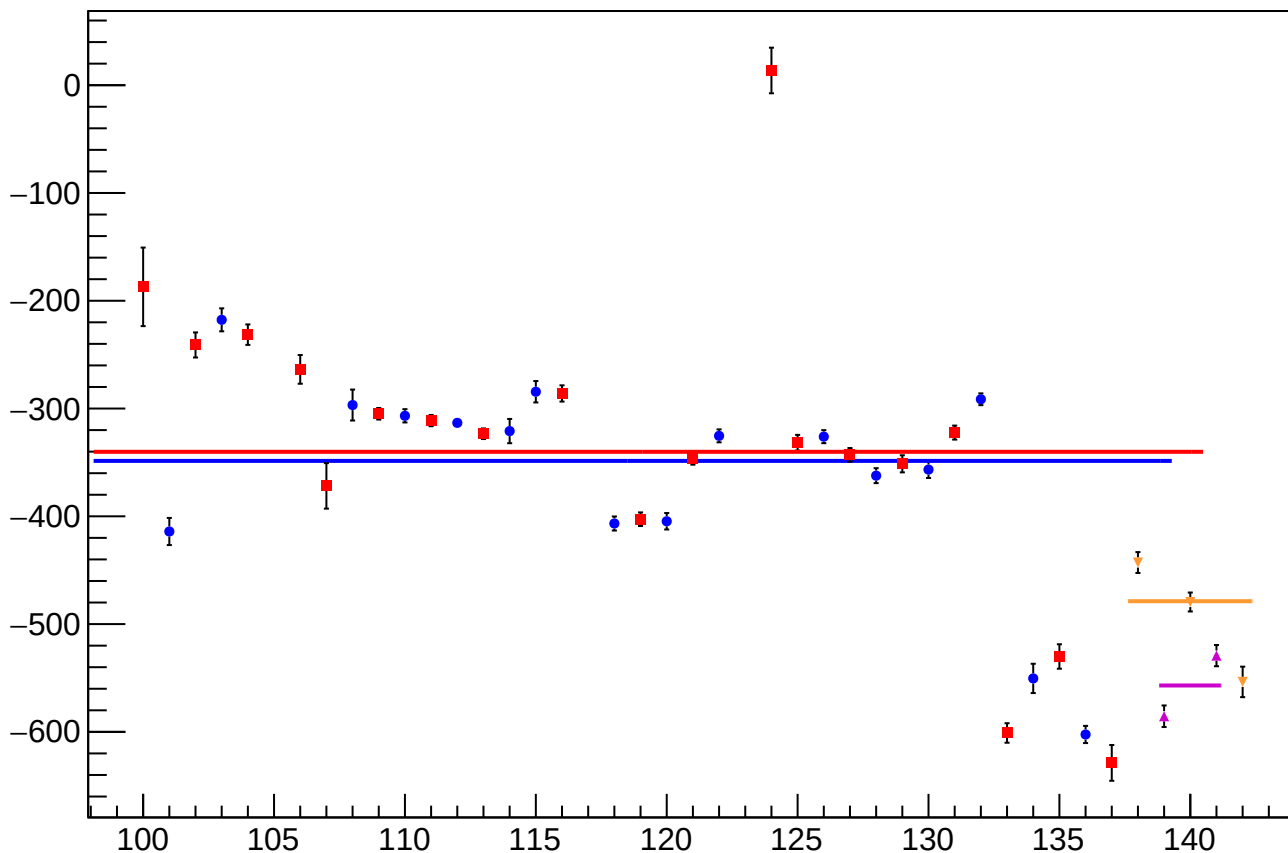
Right: -11.607 $\pm$ 0.042 χ^2 /NDF: 972944.0/34

In: -18.772 $\pm$ 0.045 χ^2 /NDF:588323.5/17

Out: -22.792 $\pm$ 0.047 χ^2 /NDF:522964.9/21

All: -20.692 $\pm$ 0.032 χ^2 /NDF: 1115161.8/39

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -348.586+/-1.825 χ^2/NDF : 1858.3/15

Left Out: -478.765+/-5.912 χ^2/NDF : 41.7/2

Right Out: -340.144+/-1.759 χ^2/NDF : 2197.1/18

Left In: -556.956+/-7.022 χ^2/NDF : 16.0/1

Left: -511.197+/-4.522 χ^2/NDF : 130.3/4

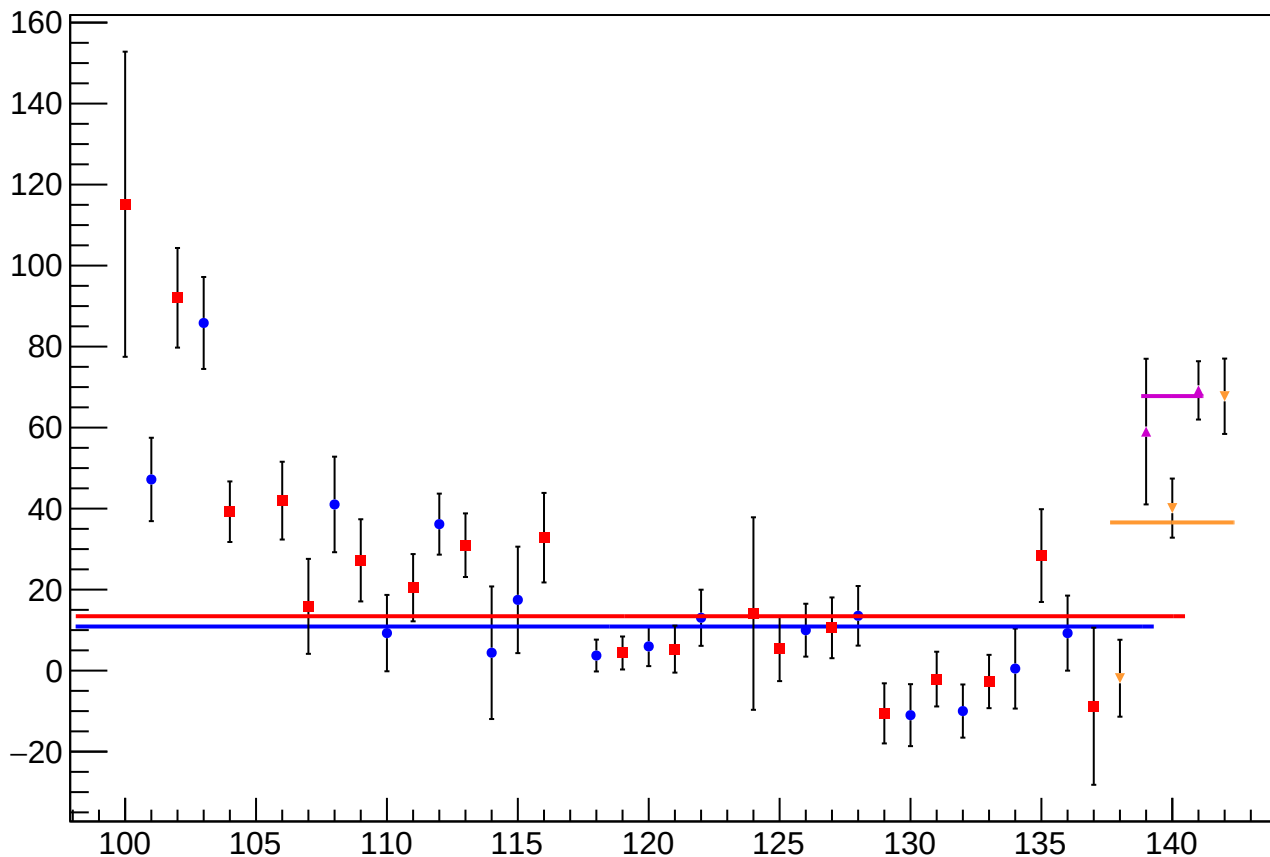
Right: -344.211+/-1.267 χ^2/NDF : 4066.5/34

In: -361.765+/-1.766 χ^2/NDF : 2699.1/17

Out: -351.423+/-1.686 χ^2/NDF : 2743.9/21

All: -356.355+/-1.220 χ^2/NDF : 5461.0/39

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.888 $\pm$ 1.843 χ^2 /NDF: 98.2/15

Left Out: 36.583 $\pm$ 4.914 χ^2 /NDF:27.8/2

Right Out: 13.427 $\pm$ 1.854 χ^2 /NDF: 112.4/18

Left In: 67.782 $\pm$ 6.685 χ^2 /NDF:0.3/1

Left: 47.527 $\pm$ 3.959 χ^2 /NDF: 42.3/4

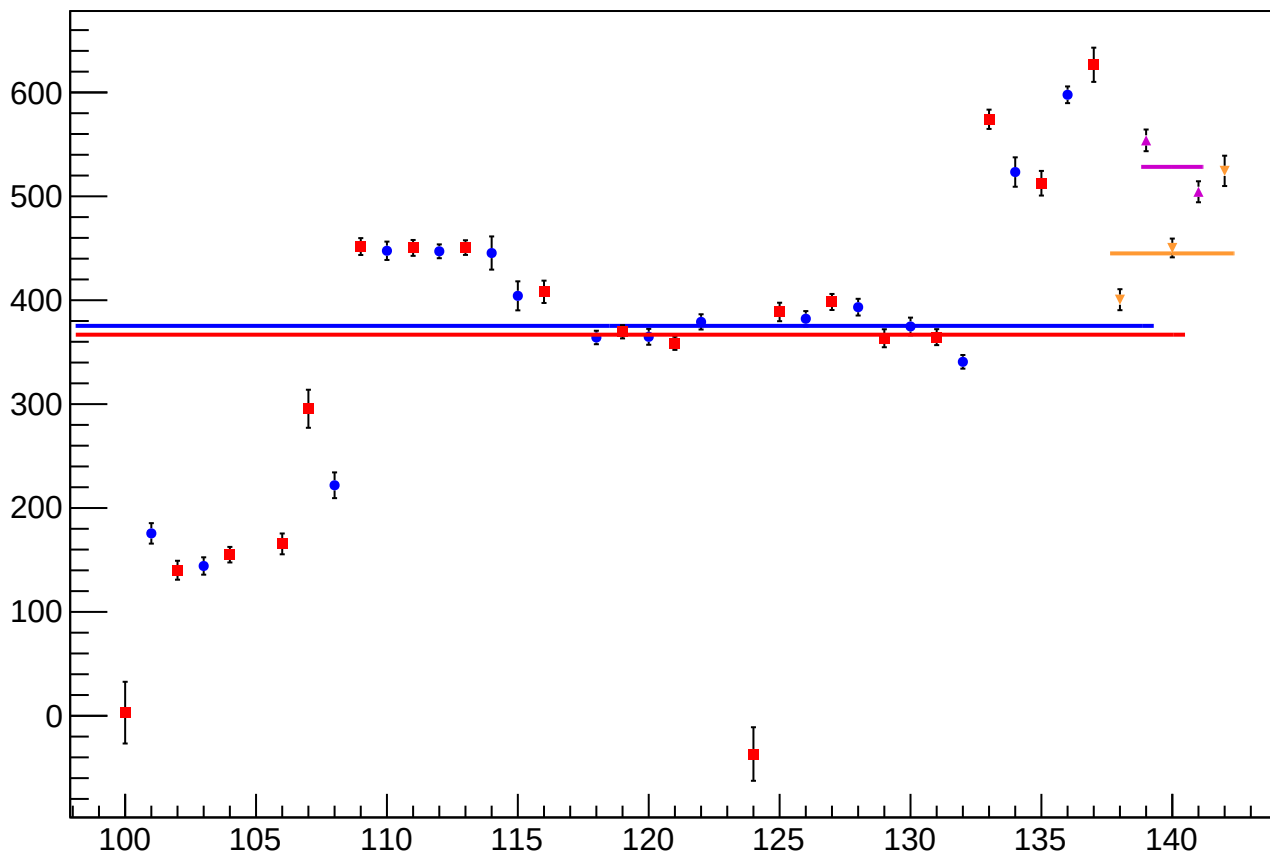
Right: 12.149 $\pm$ 1.307 χ^2 /NDF: 211.6/34

In: 14.906 $\pm$ 1.776 χ^2 /NDF:165.8/17

Out: 16.314 $\pm$ 1.735 χ^2 /NDF:159.7/21

All: 15.626 $\pm$ 1.241 χ^2 /NDF: 325.9/39

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 375.321+/-2.103 χ^2/NDF : 2449.5/15

Left Out: 445.058+/-6.114 χ^2/NDF : 49.4/2

Right Out: 366.830+/-2.049 χ^2/NDF : 3541.1/18

Left In: 528.360+/-7.261 χ^2/NDF : 11.6/1

Left: 479.620+/-4.677 χ^2/NDF : 138.0/4

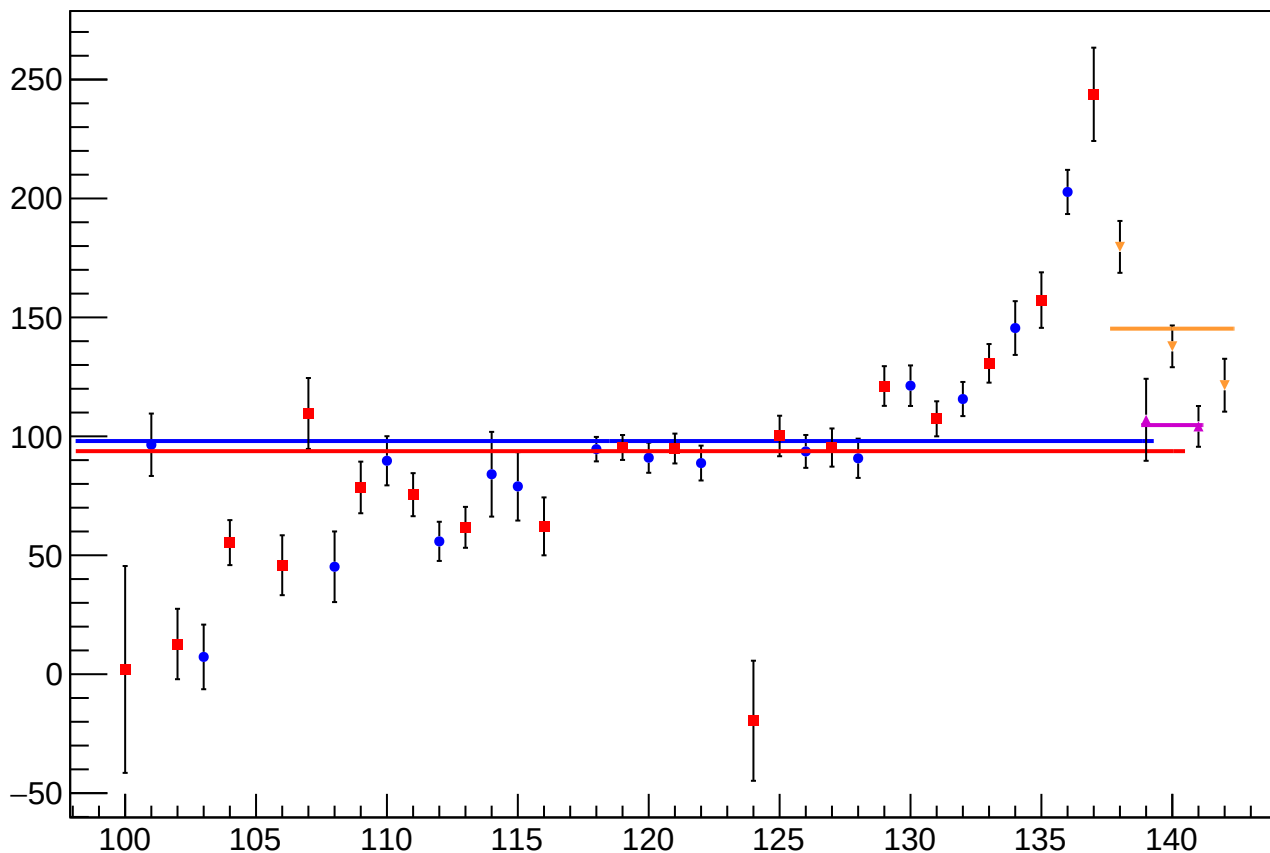
Right: 370.966+/-1.468 χ^2/NDF : 5998.9/34

In: 387.162+/-2.020 χ^2/NDF : 2870.9/17

Out: 374.731+/-1.943 χ^2/NDF : 3737.7/21

All: 380.706+/-1.400 χ^2/NDF : 6628.3/39

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 98.021 $\pm$ 2.144 χ^2 /NDF: 249.5/15

Left Out: 145.270 $\pm$ 5.823 χ^2 /NDF:15.2/2

Right Out: 93.771 $\pm$ 2.138 χ^2 /NDF: 237.1/18

Left In: 104.732 $\pm$ 7.676 χ^2 /NDF:0.0/1

Left: 130.463 $\pm$ 4.639 χ^2 /NDF: 33.0/4

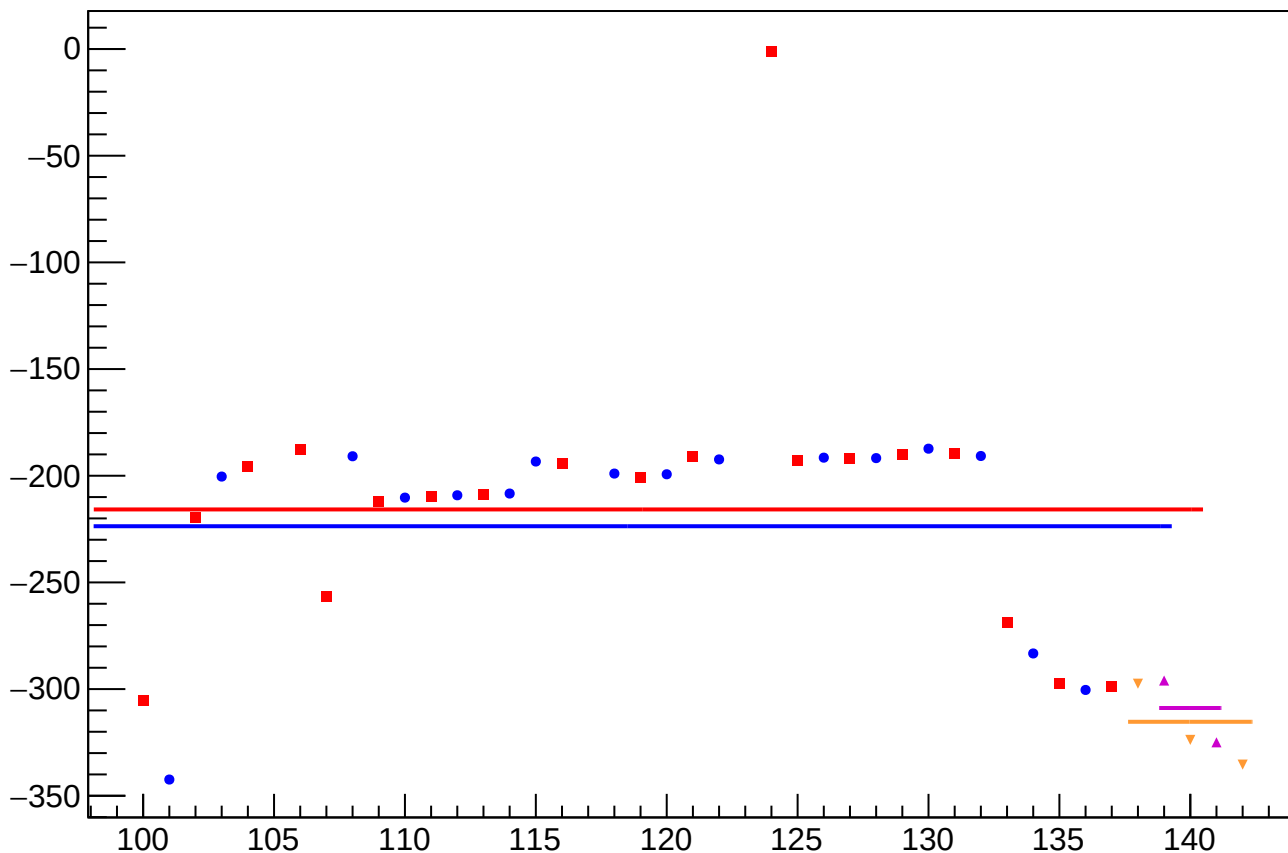
Right: 95.890 $\pm$ 1.514 χ^2 /NDF: 488.6/34

In: 98.507 $\pm$ 2.065 χ^2 /NDF:250.2/17

Out: 99.891 $\pm$ 2.007 χ^2 /NDF:321.3/21

All: 99.218 $\pm$ 1.439 χ^2 /NDF: 571.7/39

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -223.666+/-0.138 χ^2/NDF : 121528.3/15

Left Out: -315.325+/-0.258 χ^2/NDF : 3493.9/2

Right Out: -215.797+/-0.134 χ^2/NDF : 81516.6/18

Left In: -308.863+/-0.277 χ^2/NDF : 2701.2/1

Left: -312.318+/-0.189 χ^2/NDF : 6486.5/4

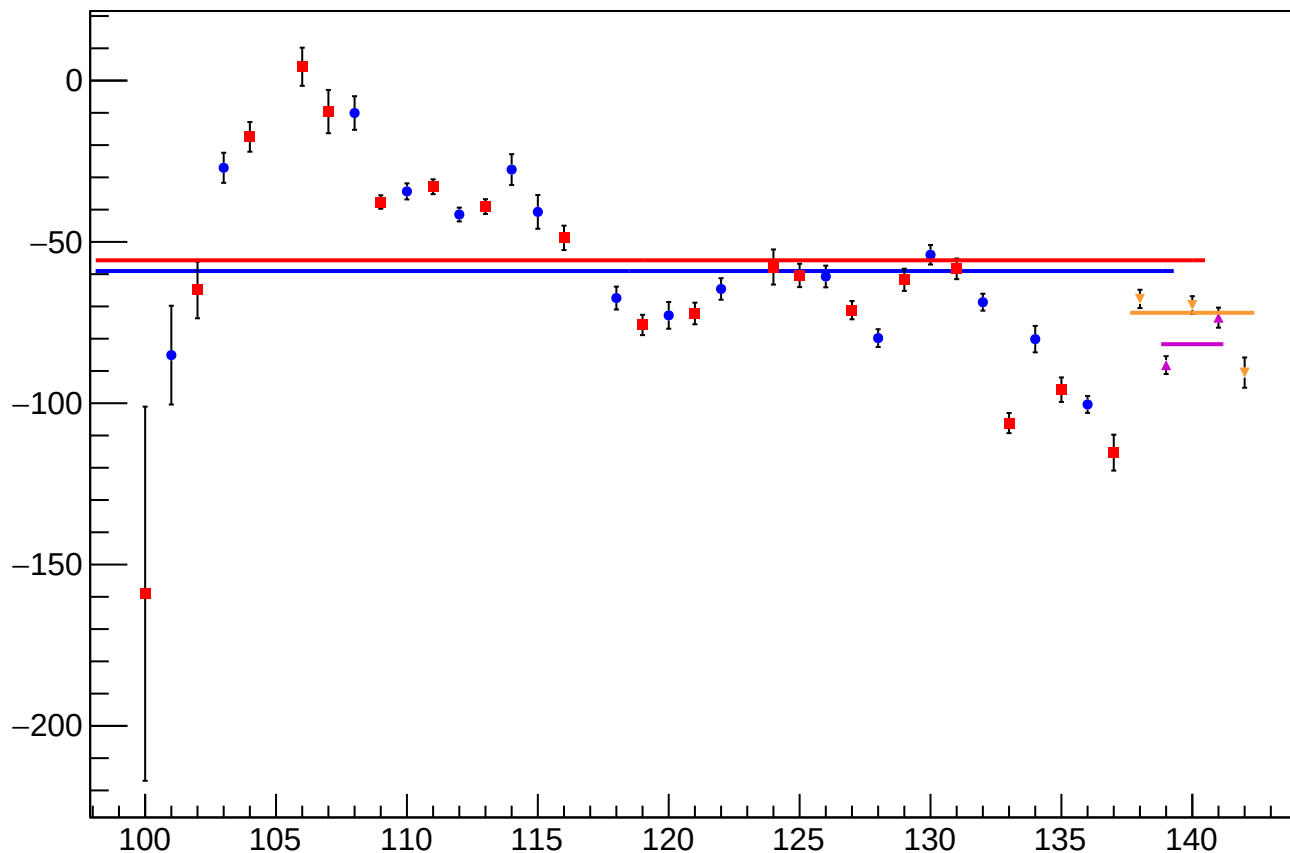
Right: -219.617+/-0.096 χ^2/NDF : 204711.3/34

In: -240.680+/-0.124 χ^2/NDF : 200030.1/17

Out: -236.981+/-0.119 χ^2/NDF : 201911.3/21

All: -238.761+/-0.086 χ^2/NDF : 402405.2/39

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -59.030 +/- 0.829 χ^2/NDF : 727.3/15

Left Out: -71.970 +/- 1.826 χ^2/NDF : 18.7/2

Right Out: -55.701 +/- 0.790 χ^2/NDF : 1041.1/18

Left In: -81.702 +/- 2.066 χ^2/NDF : 12.5/1

Left: -76.237 +/- 1.368 χ^2/NDF : 43.6/4

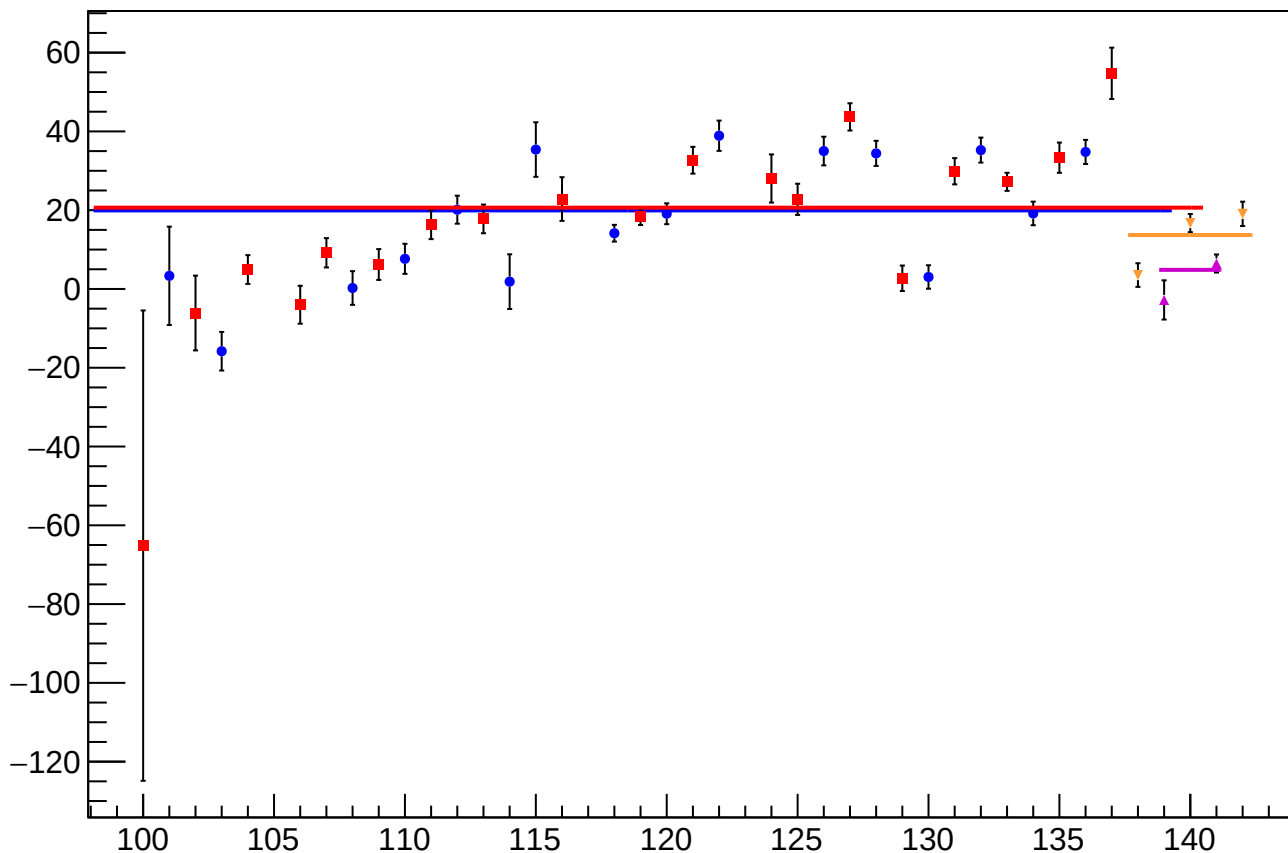
Right: -57.284 +/- 0.572 χ^2/NDF : 1776.9/34

In: -62.176 +/- 0.770 χ^2/NDF : 843.5/17

Out: -58.267 +/- 0.725 χ^2/NDF : 1126.7/21

All: -60.105 +/- 0.528 χ^2/NDF : 1983.9/39

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 19.946 $\pm$ 0.867 χ^2 /NDF: 247.2/15

Left Out: 13.698 $\pm$ 1.575 χ^2 /NDF:16.2/2

Right Out: 20.643 $\pm$ 0.844 χ^2 /NDF: 224.8/18

Left In: 4.851 $\pm$ 2.079 χ^2 /NDF:2.8/1

Left: 10.473 $\pm$ 1.256 χ^2 /NDF: 30.6/4

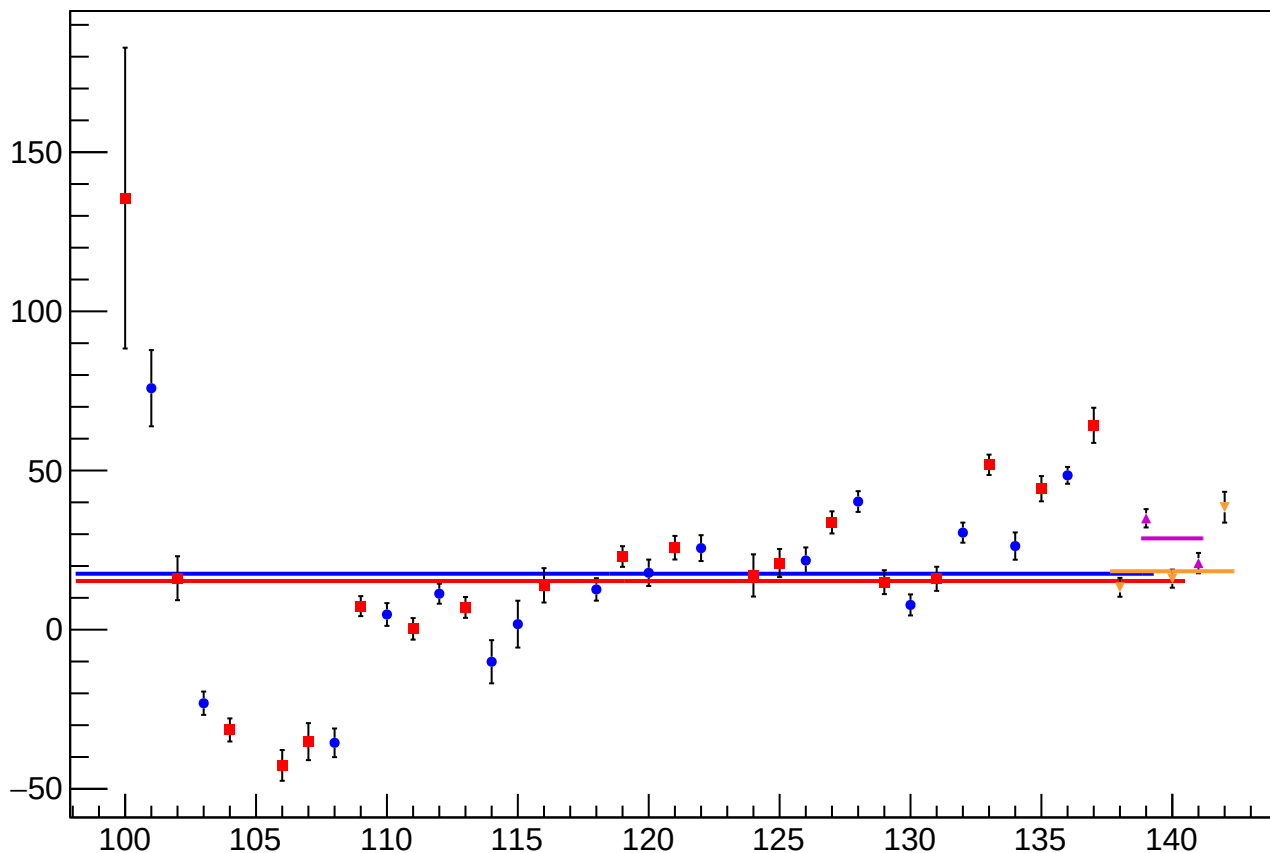
Right: 20.304 $\pm$ 0.605 χ^2 /NDF: 472.3/34

In: 17.708 $\pm$ 0.800 χ^2 /NDF:294.9/17

Out: 19.094 $\pm$ 0.744 χ^2 /NDF:256.1/21

All: 18.452 $\pm$ 0.545 χ^2 /NDF: 552.6/39

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 17.574 $\pm$ 0.957 χ^2 /NDF: 546.2/15

Left Out: 18.354 $\pm$ 1.890 χ^2 /NDF:20.9/2

Right Out: 15.283 $\pm$ 0.934 χ^2 /NDF: 730.0/18

Left In: 28.679 $\pm$ 2.138 χ^2 /NDF:10.7/1

Left: 22.882 $\pm$ 1.416 χ^2 /NDF: 44.7/4

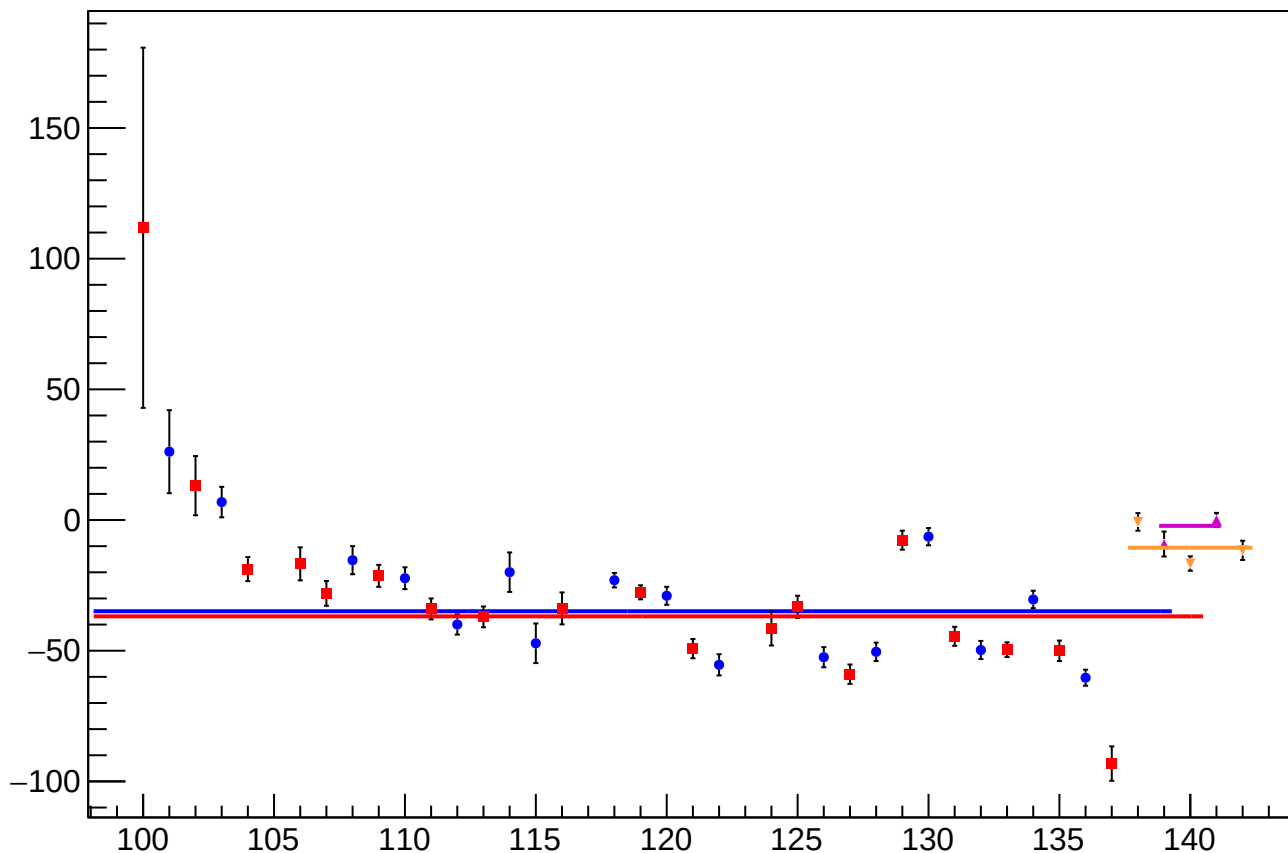
Right: 16.401 $\pm$ 0.668 χ^2 /NDF: 1279.2/34

In: 19.426 $\pm$ 0.873 χ^2 /NDF:579.4/17

Out: 15.886 $\pm$ 0.837 χ^2 /NDF:753.1/21

All: 17.582 $\pm$ 0.604 χ^2 /NDF: 1341.0/39

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.899 ± 0.990 χ^2/NDF : 346.6/15

Left Out: -10.583 ± 1.850 χ^2/NDF : 13.4/2

Right Out: -36.853 ± 0.970 χ^2/NDF : 301.4/18

Left In: -2.226 ± 2.359 χ^2/NDF : 2.8/1

Left: -7.402 ± 1.456 χ^2/NDF : 24.0/4

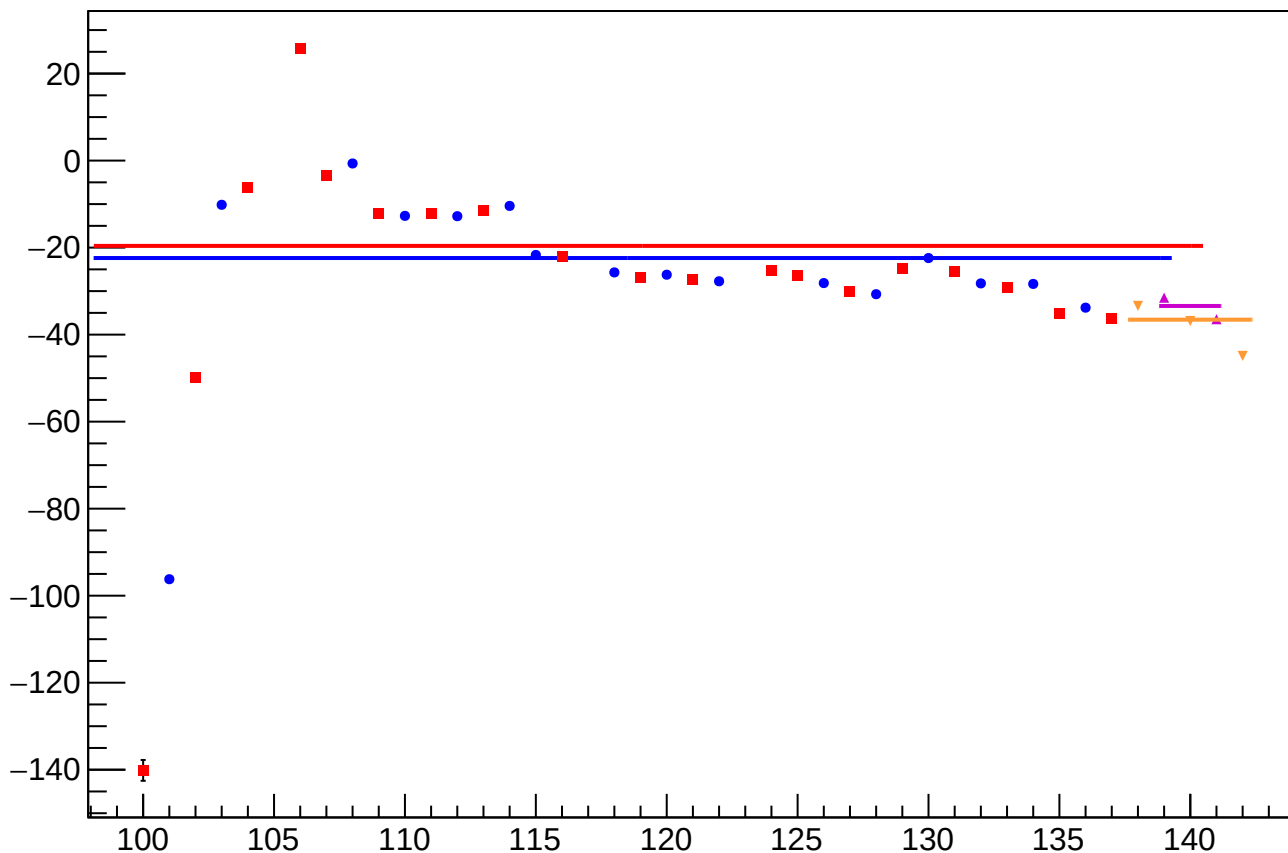
Right: -35.897 ± 0.693 χ^2/NDF : 650.0/34

In: -30.004 ± 0.913 χ^2/NDF : 512.5/17

Out: -31.191 ± 0.859 χ^2/NDF : 473.1/21

All: -30.634 ± 0.626 χ^2/NDF : 986.5/39

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -22.394+/-0.058 χ^2/NDF : 46519.7/15

Left Out: -36.564+/-0.079 χ^2/NDF : 2520.1/2

Right Out: -19.605+/-0.059 χ^2/NDF : 83865.7/18

Left In: -33.413+/-0.081 χ^2/NDF : 890.6/1

Left: -35.029+/-0.056 χ^2/NDF : 4194.2/4

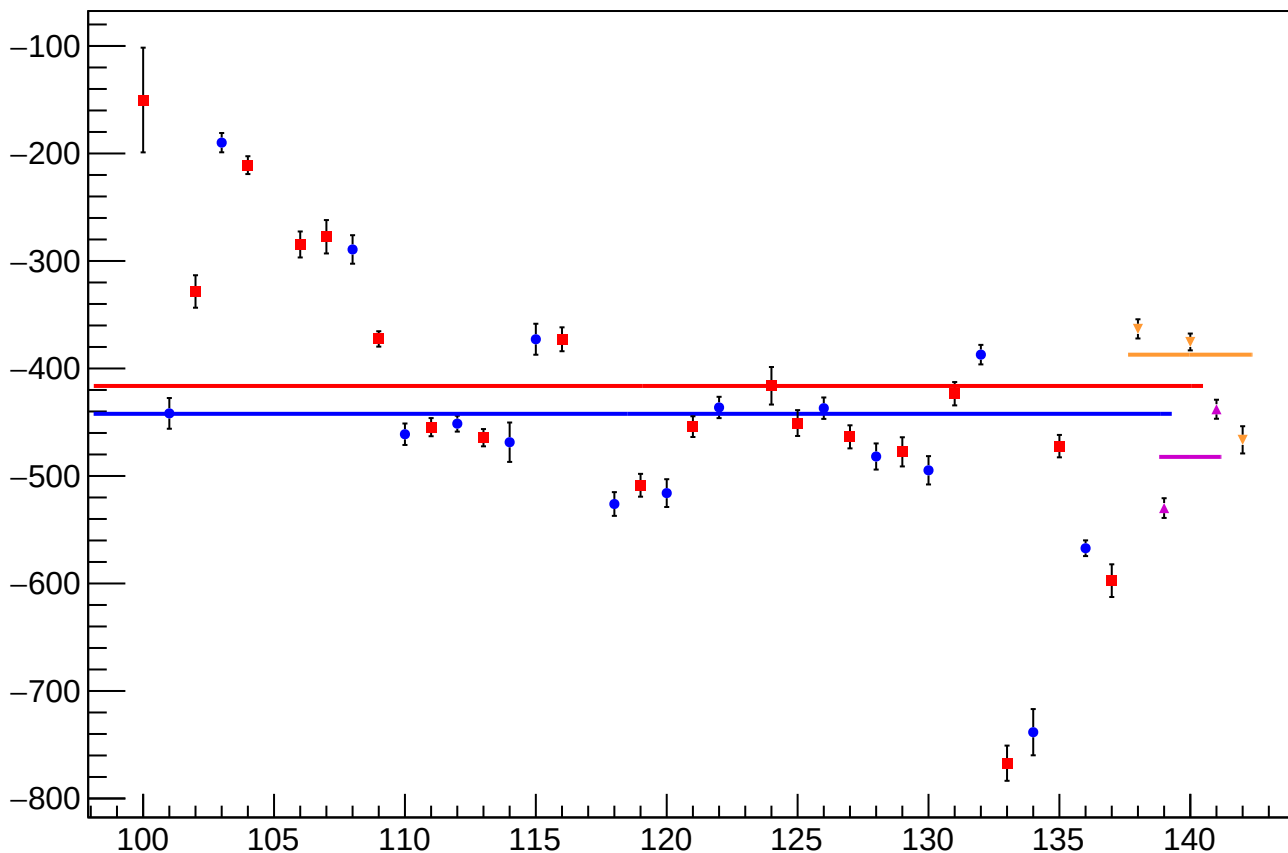
Right: -21.027+/-0.042 χ^2/NDF : 131507.1/34

In: -26.176+/-0.047 χ^2/NDF : 59677.5/17

Out: -25.776+/-0.047 χ^2/NDF : 115998.7/21

All: -25.977+/-0.033 χ^2/NDF : 175711.9/39

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -442.182+/-2.682 χ^2 /NDF: 1589.1/15

Left Out: -387.161+/-5.336 χ^2 /NDF:48.7/2

Right Out: -416.259+/-2.523 χ^2 /NDF: 1753.8/18

Left In: -482.245+/-6.369 χ^2 /NDF:52.0/1

Left: -426.377+/-4.091 χ^2 /NDF: 231.6/4

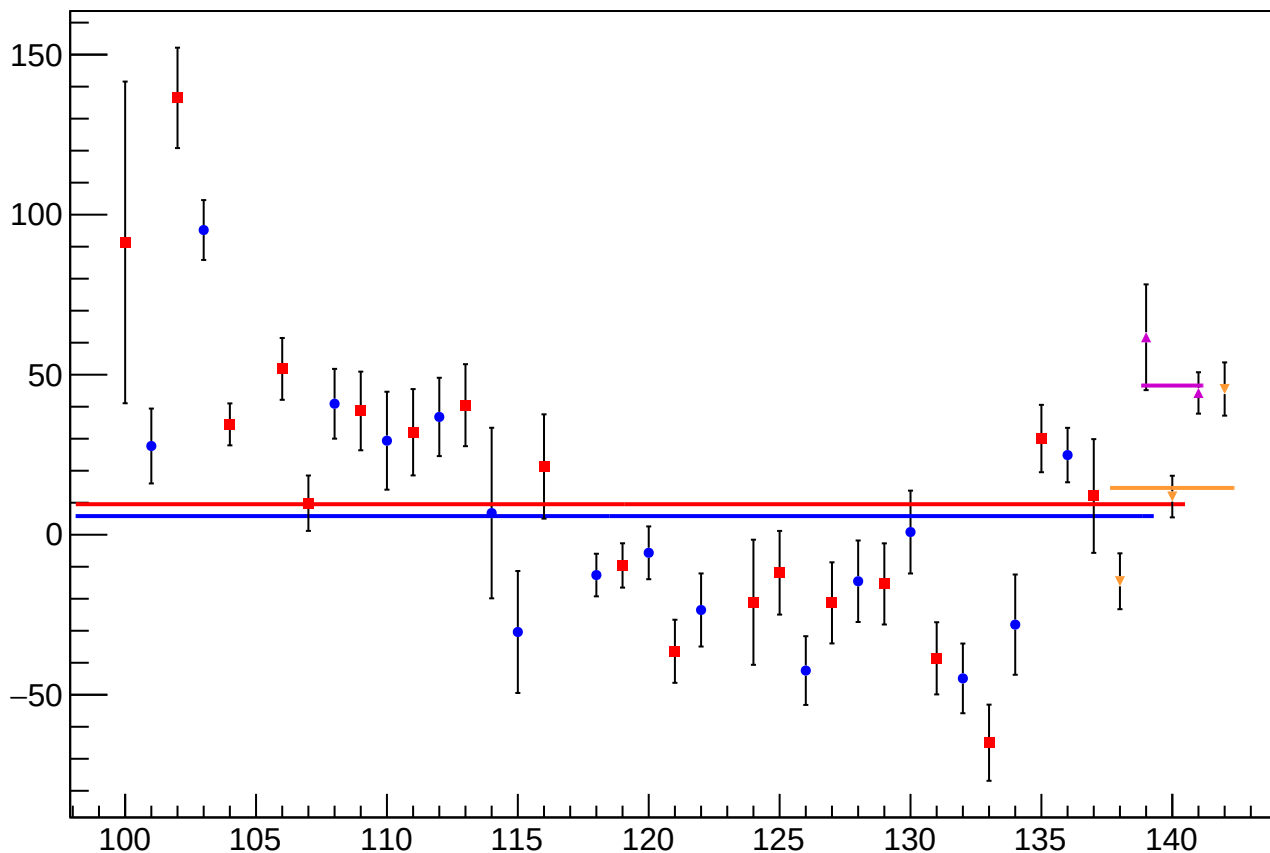
Right: -428.429+/-1.837 χ^2 /NDF: 3392.5/34

In: -448.215+/-2.472 χ^2 /NDF:1674.7/17

Out: -410.945+/-2.281 χ^2 /NDF:1826.8/21

All: -428.084+/-1.676 χ^2 /NDF: 3624.3/39

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.824 ± 2.728 $\chi^2/\text{NDF}: 188.1/15$

Left Out: 14.625 ± 4.417 $\chi^2/\text{NDF}: 25.1/2$

Right Out: 9.536 ± 2.556 $\chi^2/\text{NDF}: 222.2/18$

Left In: 46.610 ± 6.021 $\chi^2/\text{NDF}: 1.0/1$

Left: 25.815 ± 3.561 $\chi^2/\text{NDF}: 44.5/4$

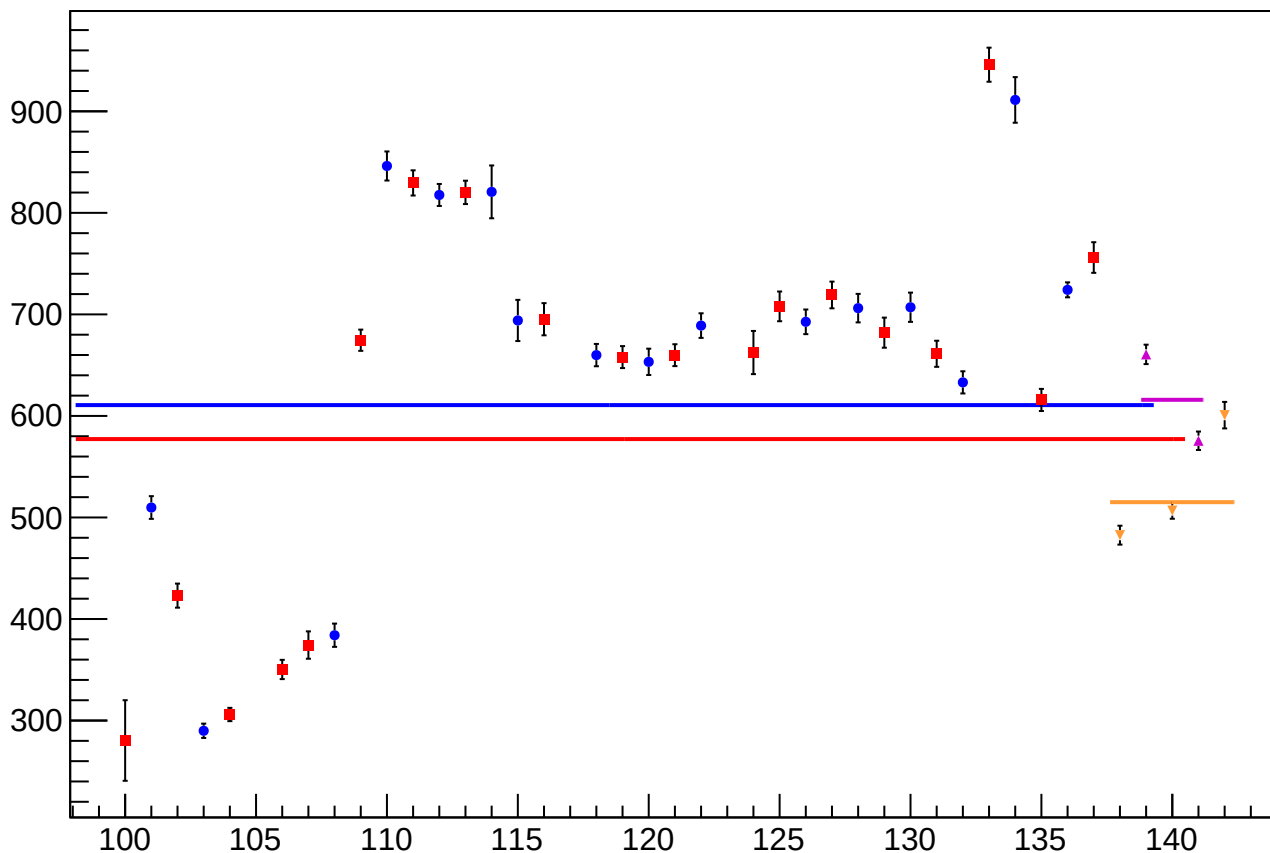
Right: 7.800 ± 1.865 $\chi^2/\text{NDF}: 411.3/34$

In: 12.771 ± 2.485 $\chi^2/\text{NDF}: 227.2/17$

Out: 10.812 ± 2.212 $\chi^2/\text{NDF}: 248.3/21$

All: 11.678 ± 1.652 $\chi^2/\text{NDF}: 475.8/39$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 610.665 $\pm$ 2.892 χ^2 /NDF: 3892.6/15

Left Out: 515.072 $\pm$ 5.518 χ^2 /NDF:56.3/2

Right Out: 577.205 $\pm$ 2.755 χ^2 /NDF: 4800.3/18

Left In: 615.878 $\pm$ 6.584 χ^2 /NDF:41.6/1

Left: 556.666 $\pm$ 4.229 χ^2 /NDF: 235.6/4

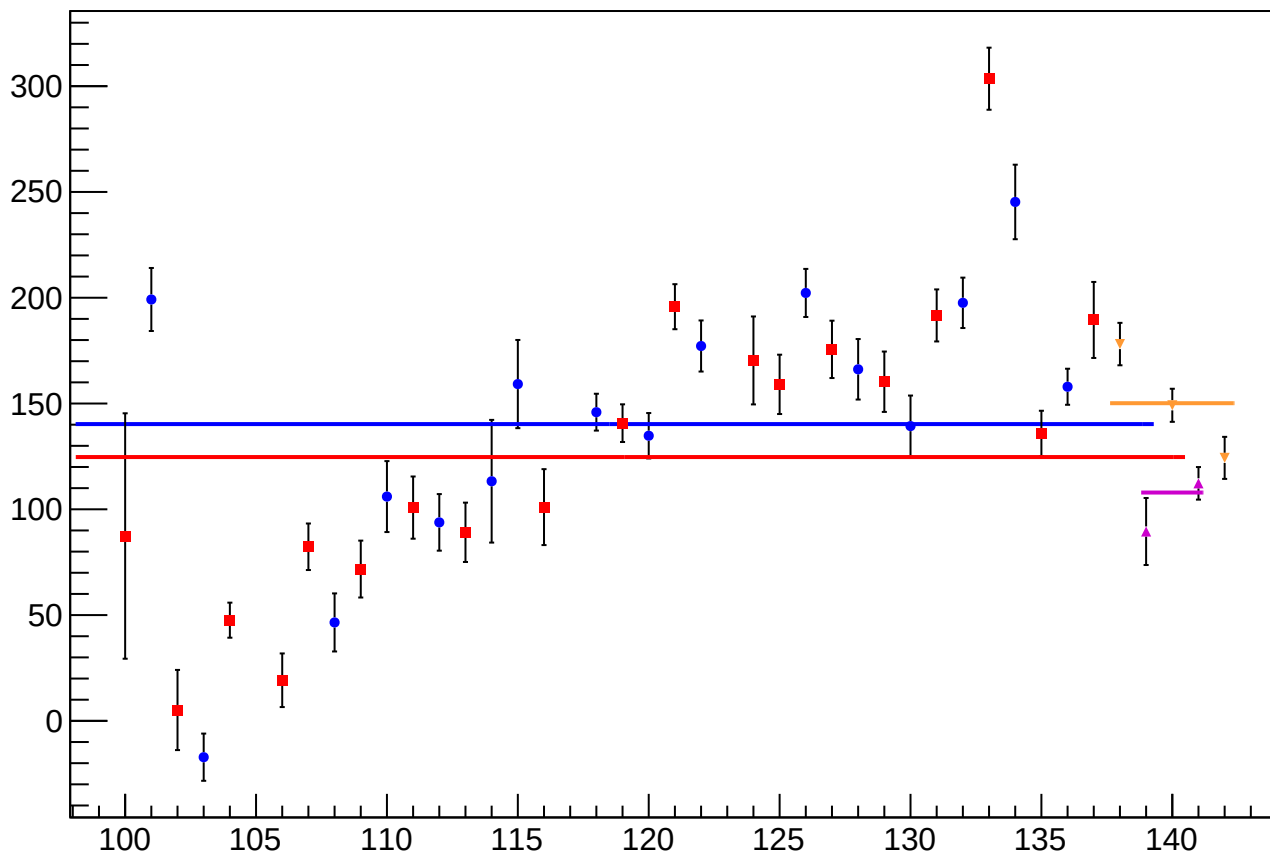
Right: 593.122 $\pm$ 1.995 χ^2 /NDF: 8763.0/34

In: 611.509 $\pm$ 2.648 χ^2 /NDF:3934.7/17

Out: 564.807 $\pm$ 2.465 χ^2 /NDF:4958.1/21

All: 586.487 $\pm$ 1.804 χ^2 /NDF: 9059.4/39

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 140.278 $\pm$ 3.151 χ^2 /NDF: 385.4/15

Left Out: 150.151 $\pm$ 5.239 χ^2 /NDF:14.6/2

Right Out: 124.697 $\pm$ 2.979 χ^2 /NDF: 508.5/18

Left In: 107.923 $\pm$ 6.924 χ^2 /NDF:1.7/1

Left: 134.777 $\pm$ 4.178 χ^2 /NDF: 39.9/4

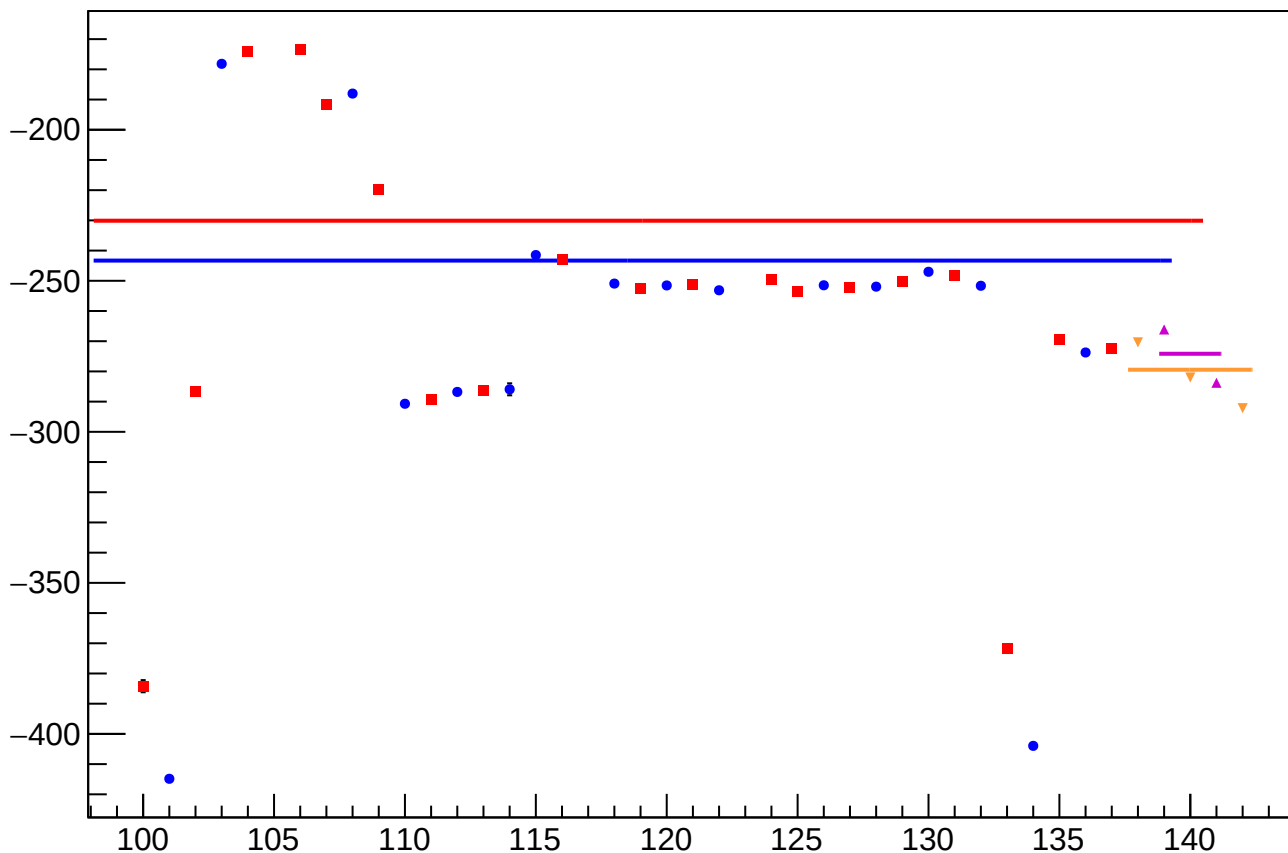
Right: 132.049 $\pm$ 2.165 χ^2 /NDF: 906.8/34

In: 134.726 $\pm$ 2.868 χ^2 /NDF:405.1/17

Out: 130.915 $\pm$ 2.589 χ^2 /NDF:540.9/21

All: 132.626 $\pm$ 1.922 χ^2 /NDF: 947.0/39

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -243.308+/-0.163 χ^2/NDF : 173487.9/15

Left Out: -279.437+/-0.233 χ^2/NDF : 1198.5/2

Right Out: -230.109+/-0.157 χ^2/NDF : 102451.2/18

Left In: -274.157+/-0.252 χ^2/NDF : 1218.7/1

Left: -276.995+/-0.171 χ^2/NDF : 2653.7/4

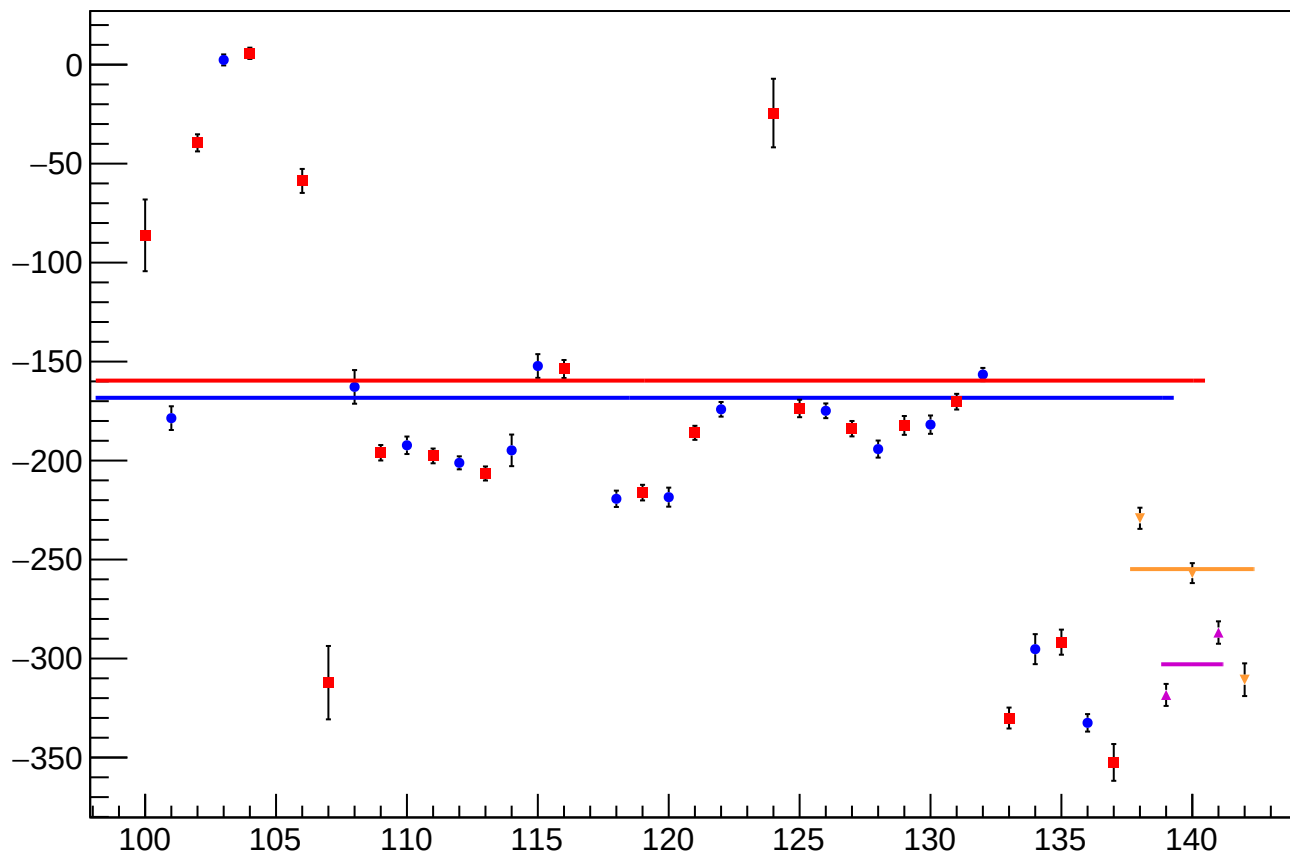
Right: -236.496+/-0.113 χ^2/NDF : 279343.3/34

In: -252.383+/-0.137 χ^2/NDF : 185306.9/17

Out: -245.516+/-0.130 χ^2/NDF : 134339.1/21

All: -248.795+/-0.094 χ^2/NDF : 320967.8/39

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -168.291 ± 1.076 χ^2/NDF : 5907.6/15

Left Out: -254.821 ± 3.351 χ^2/NDF : 69.0/2

Right Out: -159.602 ± 1.042 χ^2/NDF : 7197.9/18

Left In: -302.909 ± 3.965 χ^2/NDF : 15.8/1

Left: -274.855 ± 2.559 χ^2/NDF : 170.5/4

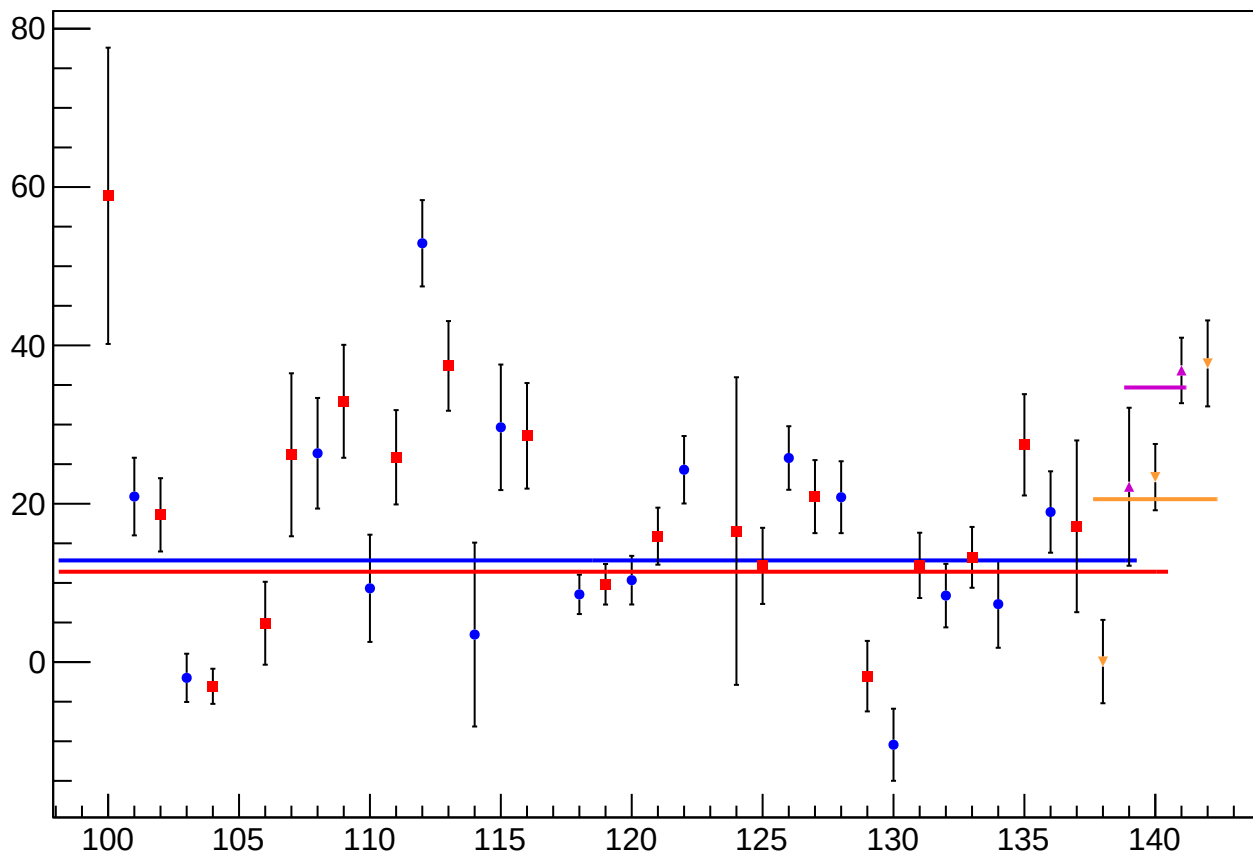
Right: -163.809 ± 0.749 χ^2/NDF : 13139.1/34

In: -177.520 ± 1.038 χ^2/NDF : 6996.9/17

Out: -168.002 ± 0.995 χ^2/NDF : 8003.1/21

All: -172.560 ± 0.718 χ^2/NDF : 15043.7/39

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.842 $\pm$ 1.076 χ^2 /NDF: 143.7/15

Left Out: 20.580 $\pm$ 2.805 χ^2 /NDF:25.6/2

Right Out: 11.414 $\pm$ 1.035 χ^2 /NDF: 119.6/18

Left In: 34.684 $\pm$ 3.820 χ^2 /NDF:1.8/1

Left: 25.521 $\pm$ 2.261 χ^2 /NDF: 36.3/4

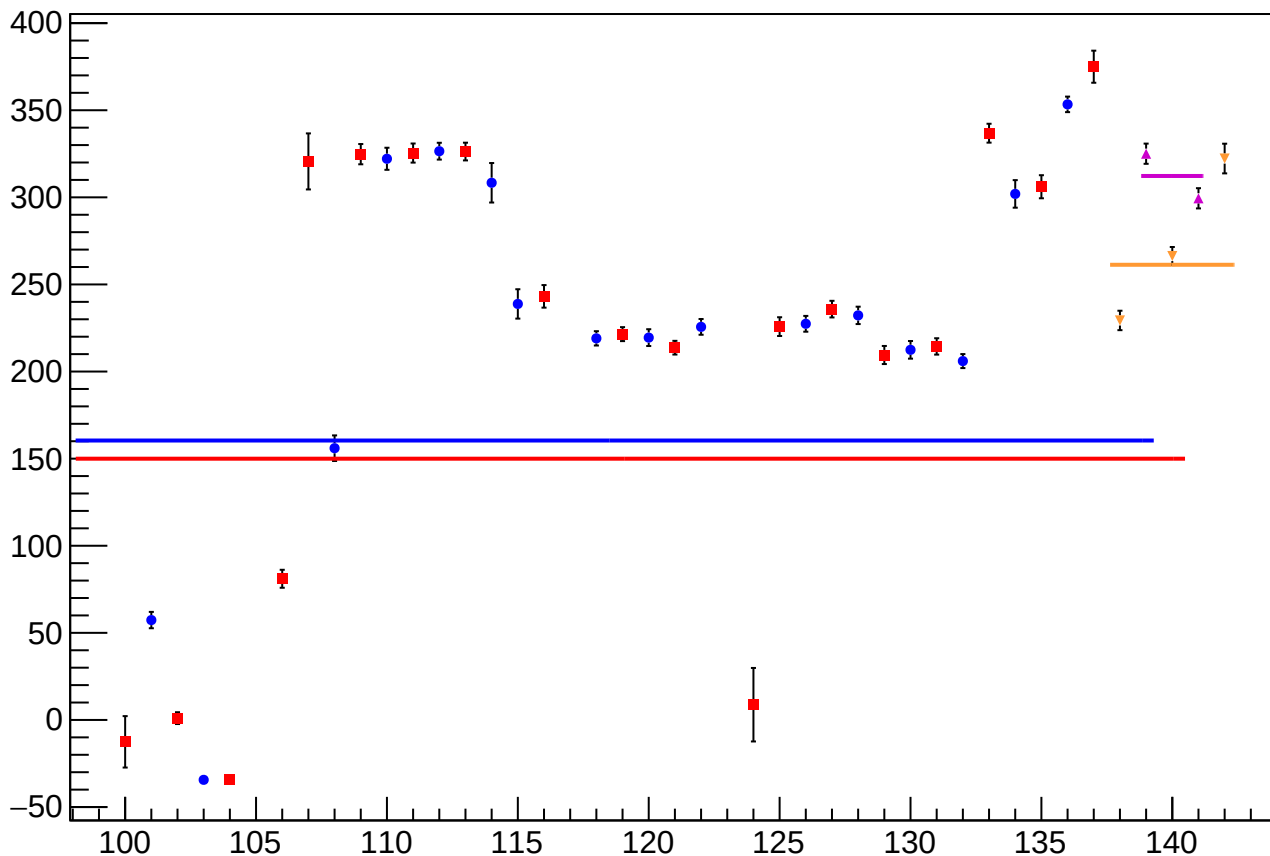
Right: 12.100 $\pm$ 0.746 χ^2 /NDF: 264.2/34

In: 14.449 $\pm$ 1.036 χ^2 /NDF:175.8/17

Out: 12.513 $\pm$ 0.971 χ^2 /NDF:154.6/21

All: 13.419 $\pm$ 0.709 χ^2 /NDF: 332.3/39

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 160.407 $\pm$ 1.139 χ^2 /NDF: 13949.8/15

Left Out: 261.287 $\pm$ 3.467 χ^2 /NDF:85.0/2

Right Out: 149.974 $\pm$ 1.107 χ^2 /NDF: 16265.2/18

Left In: 312.264 $\pm$ 4.102 χ^2 /NDF:9.7/1

Left: 282.529 $\pm$ 2.648 χ^2 /NDF: 184.8/4

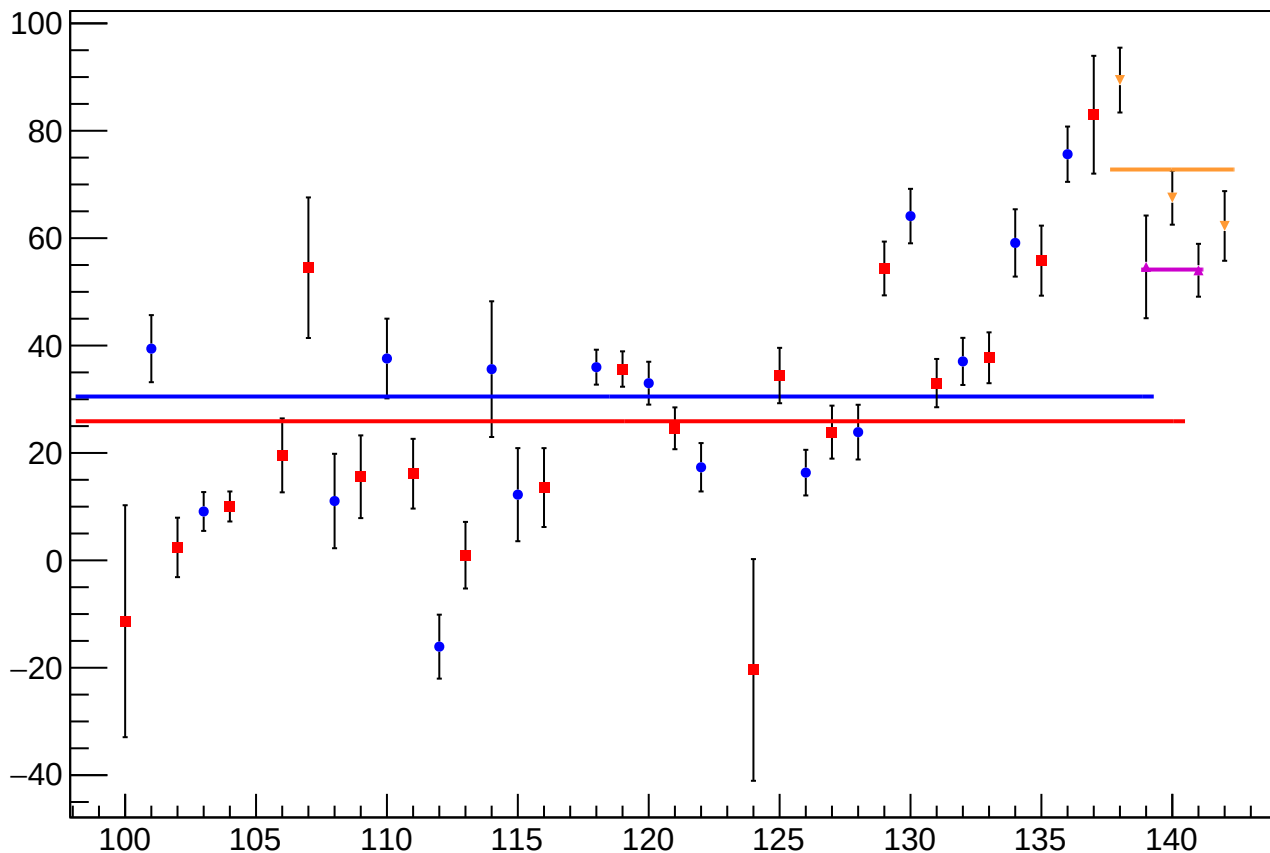
Right: 155.041 $\pm$ 0.794 χ^2 /NDF: 30258.1/34

In: 171.279 $\pm$ 1.097 χ^2 /NDF:15232.2/17

Out: 160.270 $\pm$ 1.054 χ^2 /NDF:17285.8/21

All: 165.554 $\pm$ 0.760 χ^2 /NDF: 32570.3/39

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 30.510 $\pm$ 1.255 χ^2 /NDF: 276.9/15

Left Out: 72.784 $\pm$ 3.320 χ^2 /NDF:11.3/2

Right Out: 25.903 $\pm$ 1.213 χ^2 /NDF: 187.8/18

Left In: 54.154 $\pm$ 4.376 χ^2 /NDF:0.0/1

Left: 65.977 $\pm$ 2.645 χ^2 /NDF: 22.8/4

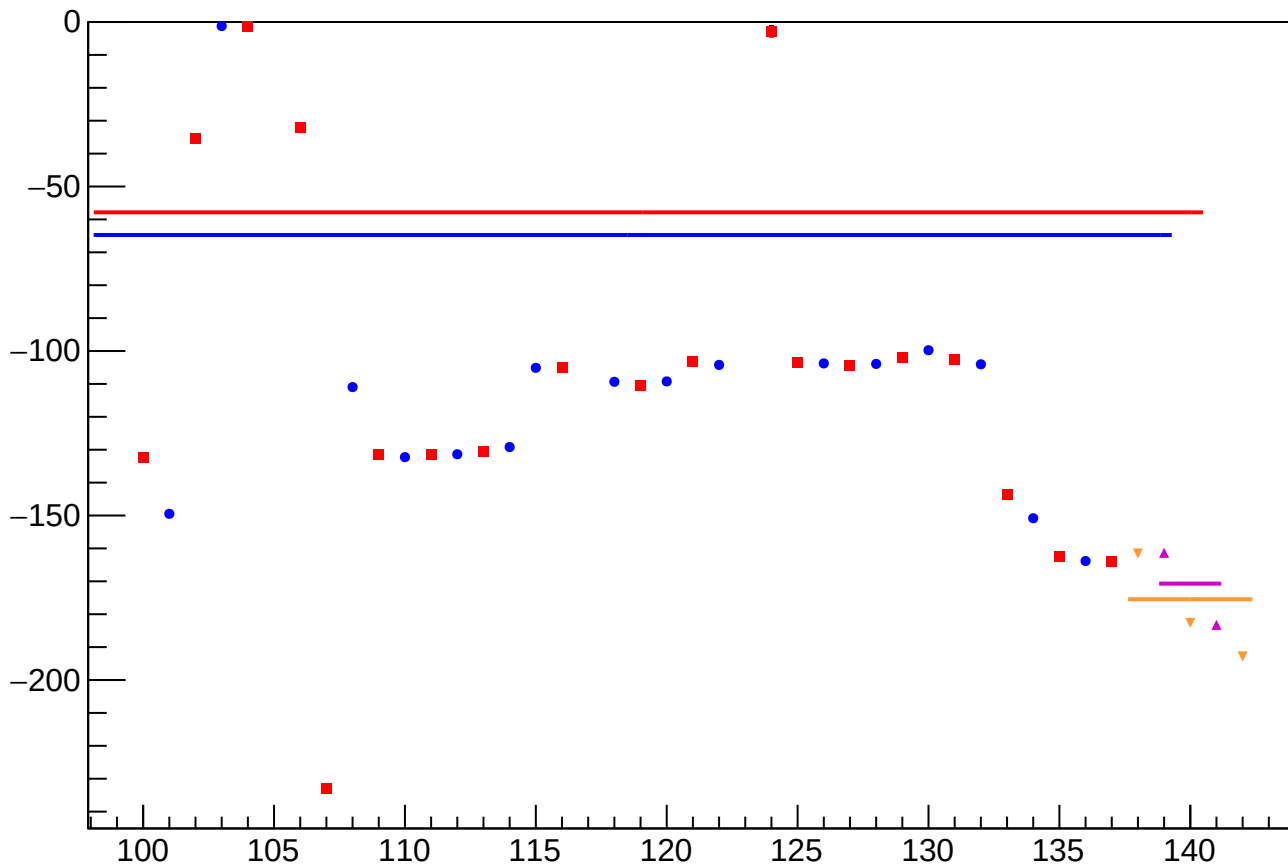
Right: 28.129 $\pm$ 0.872 χ^2 /NDF: 471.7/34

In: 32.305 $\pm$ 1.206 χ^2 /NDF:303.9/17

Out: 31.424 $\pm$ 1.139 χ^2 /NDF:375.0/21

All: 31.840 $\pm$ 0.828 χ^2 /NDF: 679.2/39

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -64.726+/-0.064 χ^2/NDF : 1044441.7/15

Left Out: -175.448+/-0.146 χ^2/NDF : 7282.0/2

Right Out: -57.855+/-0.062 χ^2/NDF : 875795.9/18

Left In: -170.699+/-0.156 χ^2/NDF : 4832.6/1

Left: -173.226+/-0.107 χ^2/NDF : 12608.6/4

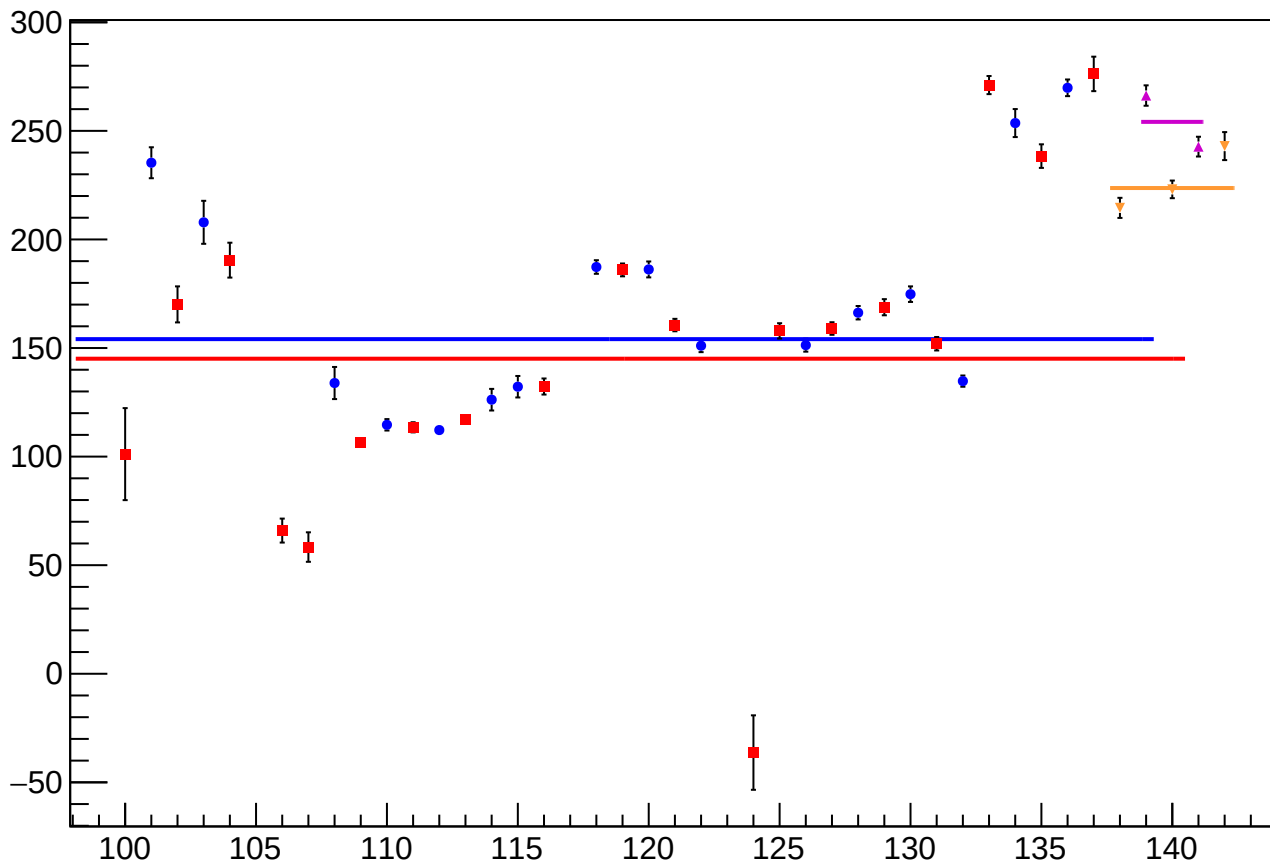
Right: -61.201+/-0.045 χ^2/NDF : 1926190.0/34

In: -79.928+/-0.059 χ^2/NDF : 1445141.0/17

Out: -75.861+/-0.057 χ^2/NDF : 1431267.9/21

All: -77.830+/-0.041 χ^2/NDF : 2878856.5/39

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 154.096 $\pm$ 0.869 χ^2 /NDF: 2281.1/15

Left Out: 223.676 $\pm$ 2.757 χ^2 /NDF:12.9/2

Right Out: 145.083 $\pm$ 0.826 χ^2 /NDF: 2958.4/18

Left In: 254.144 $\pm$ 3.270 χ^2 /NDF:12.9/1

Left: 236.338 $\pm$ 2.108 χ^2 /NDF: 76.6/4

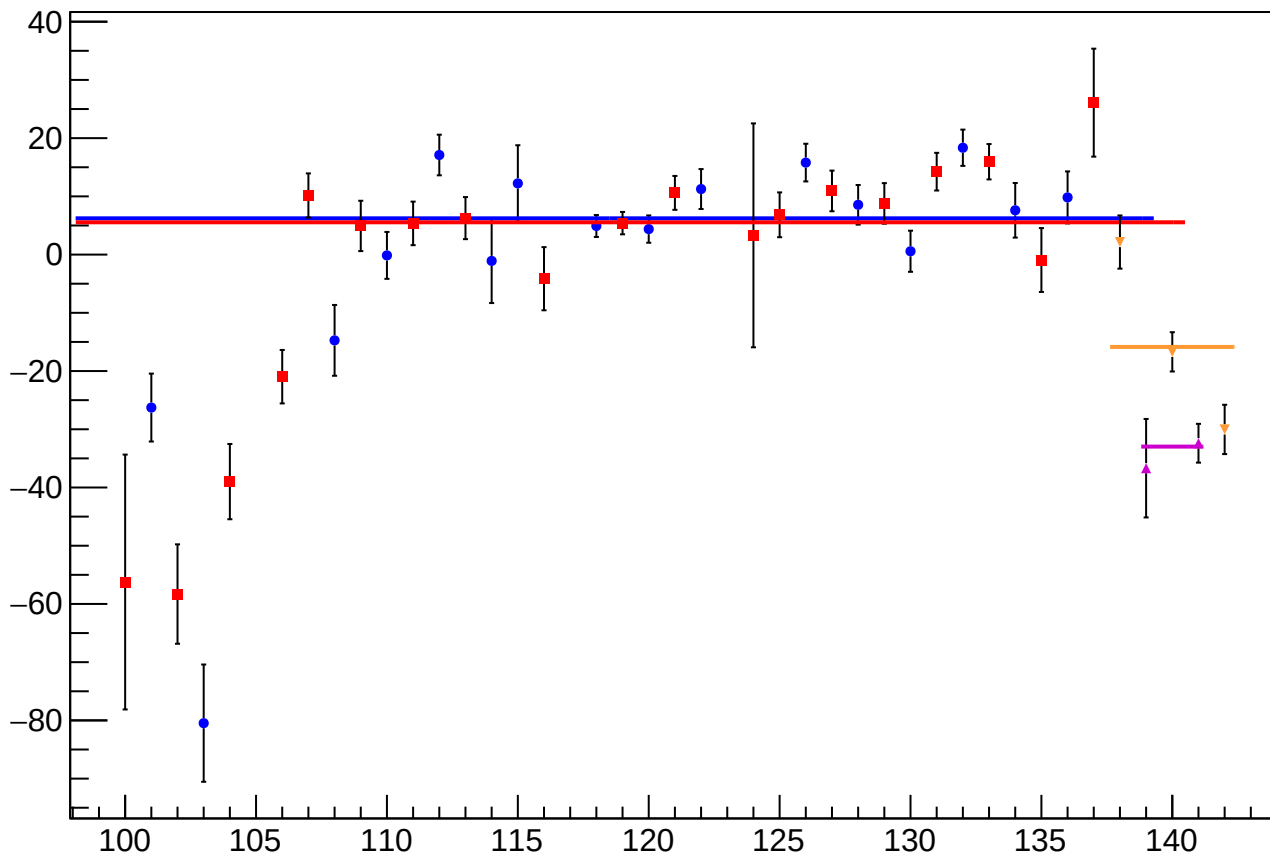
Right: 149.361 $\pm$ 0.599 χ^2 /NDF: 5296.0/34

In: 160.698 $\pm$ 0.840 χ^2 /NDF:3168.5/17

Out: 151.556 $\pm$ 0.791 χ^2 /NDF:3716.8/21

All: 155.854 $\pm$ 0.576 χ^2 /NDF: 6948.0/39

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.229 ± 0.890 χ^2/NDF : 162.1/15

Left Out: -15.858 ± 2.284 χ^2/NDF : 26.8/2

Right Out: 5.548 ± 0.889 χ^2/NDF : 181.1/18

Left In: -32.974 ± 3.099 χ^2/NDF : 0.2/1

Left: -21.885 ± 1.839 χ^2/NDF : 46.8/4

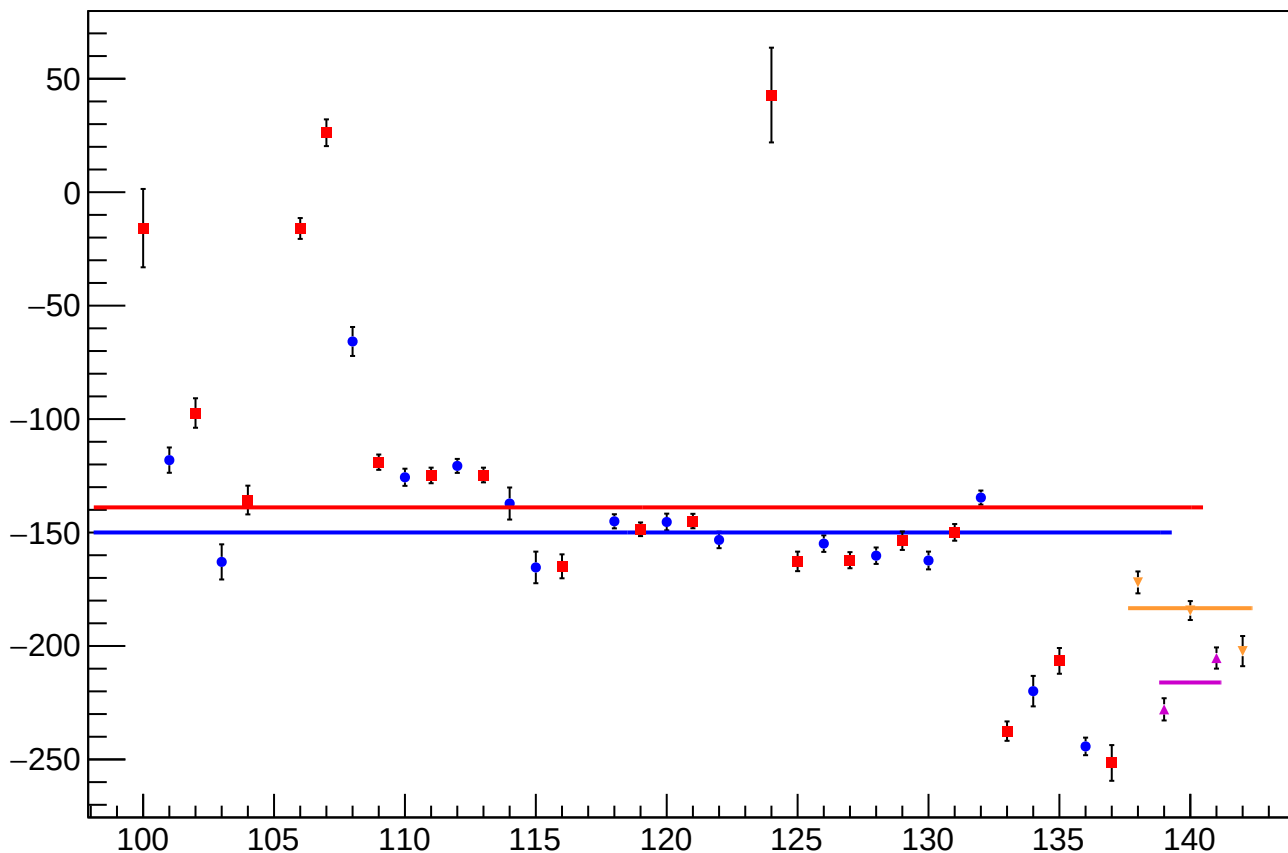
Right: 5.888 ± 0.629 χ^2/NDF : 343.5/34

In: 3.241 ± 0.855 χ^2/NDF : 310.2/17

Out: 2.731 ± 0.829 χ^2/NDF : 284.2/21

All: 2.978 ± 0.595 χ^2/NDF : 594.5/39

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -149.970 ± 1.026 $\chi^2/\text{NDF}: 1099.5/15$

Left Out: -183.340 ± 2.851 $\chi^2/\text{NDF}: 13.7/2$

Right Out: -138.912 ± 0.993 $\chi^2/\text{NDF}: 2750.9/18$

Left In: -216.088 ± 3.380 $\chi^2/\text{NDF}: 11.2/1$

Left: -196.955 ± 2.179 $\chi^2/\text{NDF}: 79.7/4$

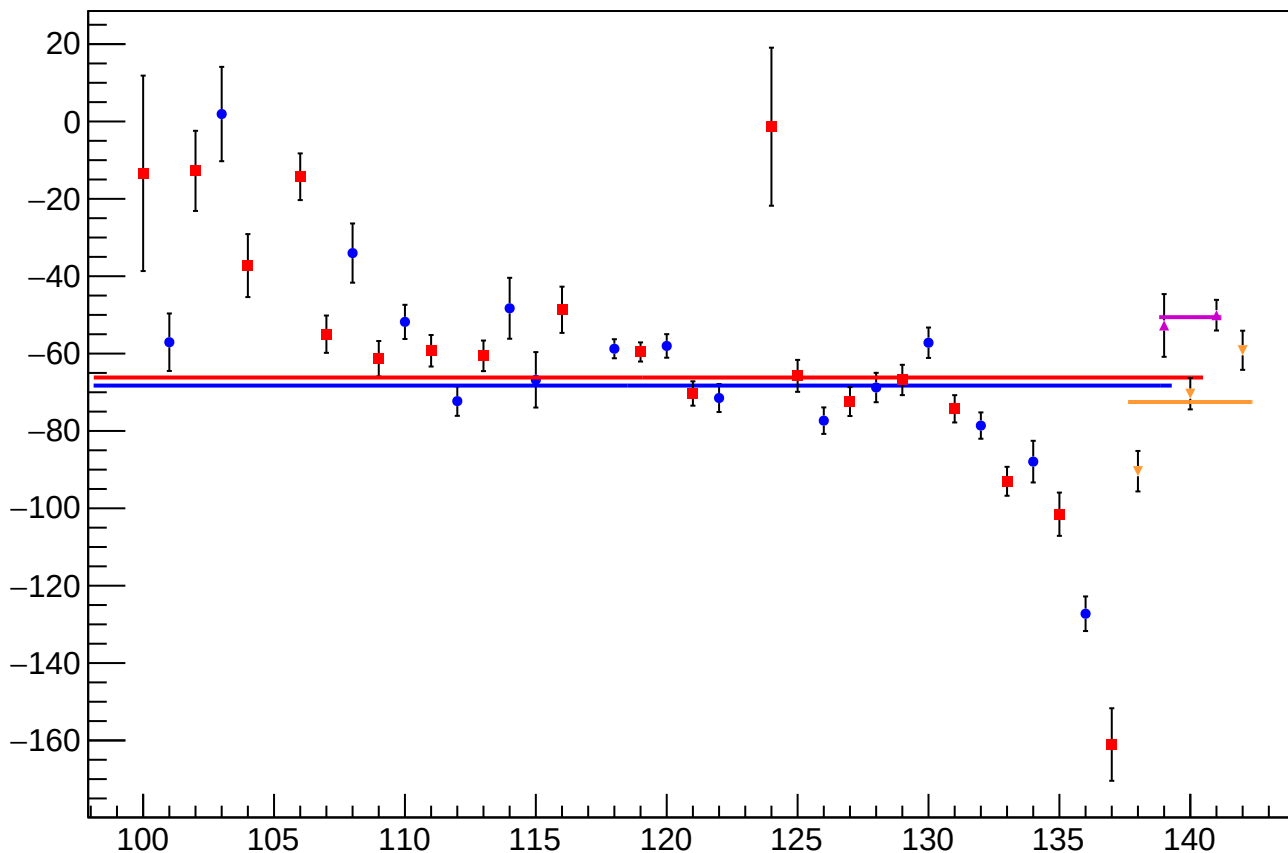
Right: -144.265 ± 0.714 $\chi^2/\text{NDF}: 3910.3/34$

In: -155.544 ± 0.981 $\chi^2/\text{NDF}: 1461.0/17$

Out: -143.722 ± 0.938 $\chi^2/\text{NDF}: 2981.1/21$

All: -149.366 ± 0.678 $\chi^2/\text{NDF}: 4517.9/39$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -68.272 ± 1.033 χ^2/NDF : 315.4/15

Left Out: -72.516 ± 2.707 χ^2/NDF : 19.0/2

Right Out: -66.186 ± 1.024 χ^2/NDF : 358.3/18

Left In: -50.585 ± 3.560 χ^2/NDF : 0.1/1

Left: -64.482 ± 2.155 χ^2/NDF : 43.1/4

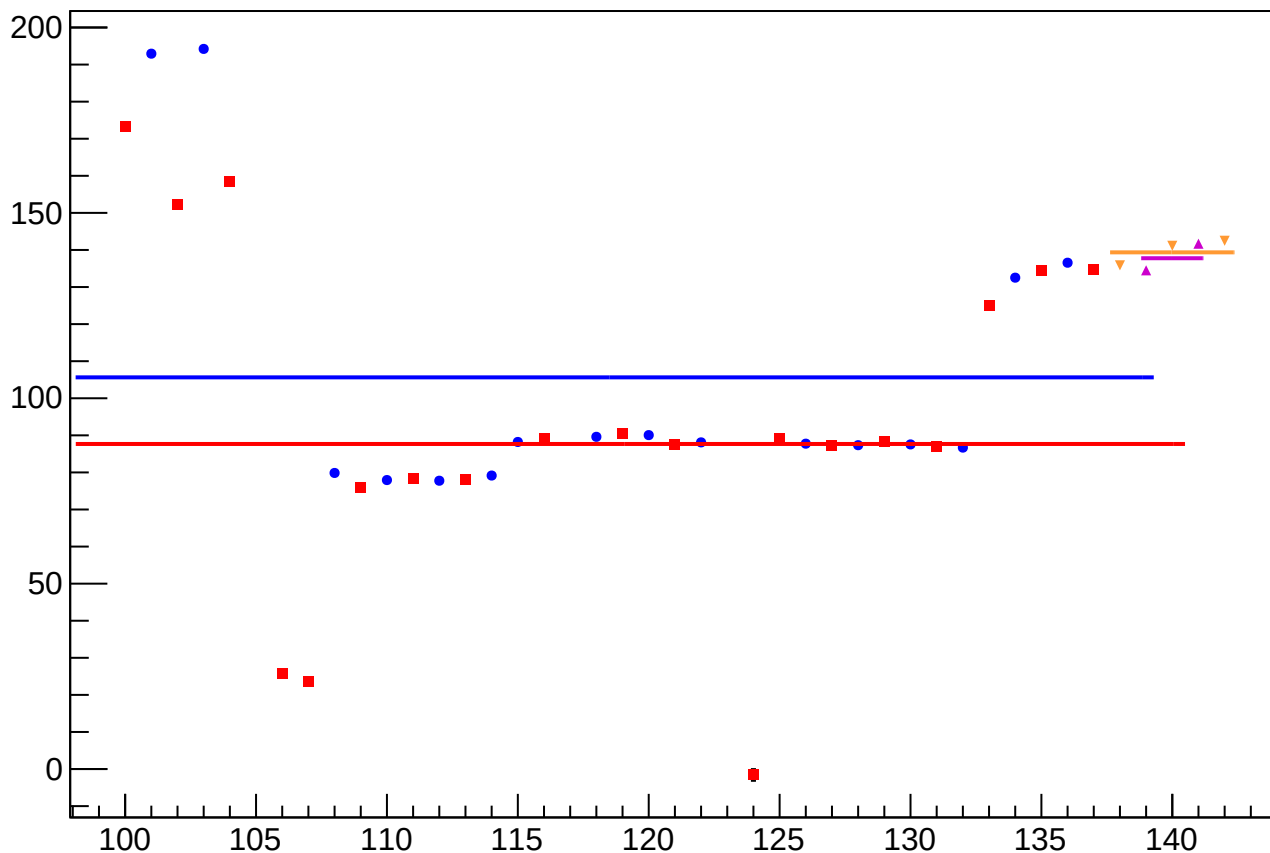
Right: -67.219 ± 0.727 χ^2/NDF : 675.8/34

In: -66.898 ± 0.992 χ^2/NDF : 338.2/17

Out: -66.978 ± 0.958 χ^2/NDF : 382.1/21

All: -66.939 ± 0.689 χ^2/NDF : 720.3/39

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 105.640 $\pm$ 0.071 χ^2 /NDF: 239614.1/15

Left Out: 139.355 $\pm$ 0.120 χ^2 /NDF: 548.6/2

Right Out: 87.673 $\pm$ 0.066 χ^2 /NDF: 374460.7/18

Left In: 137.769 $\pm$ 0.129 χ^2 /NDF: 766.7/1

Left: 138.617 $\pm$ 0.088 χ^2 /NDF: 1396.0/4

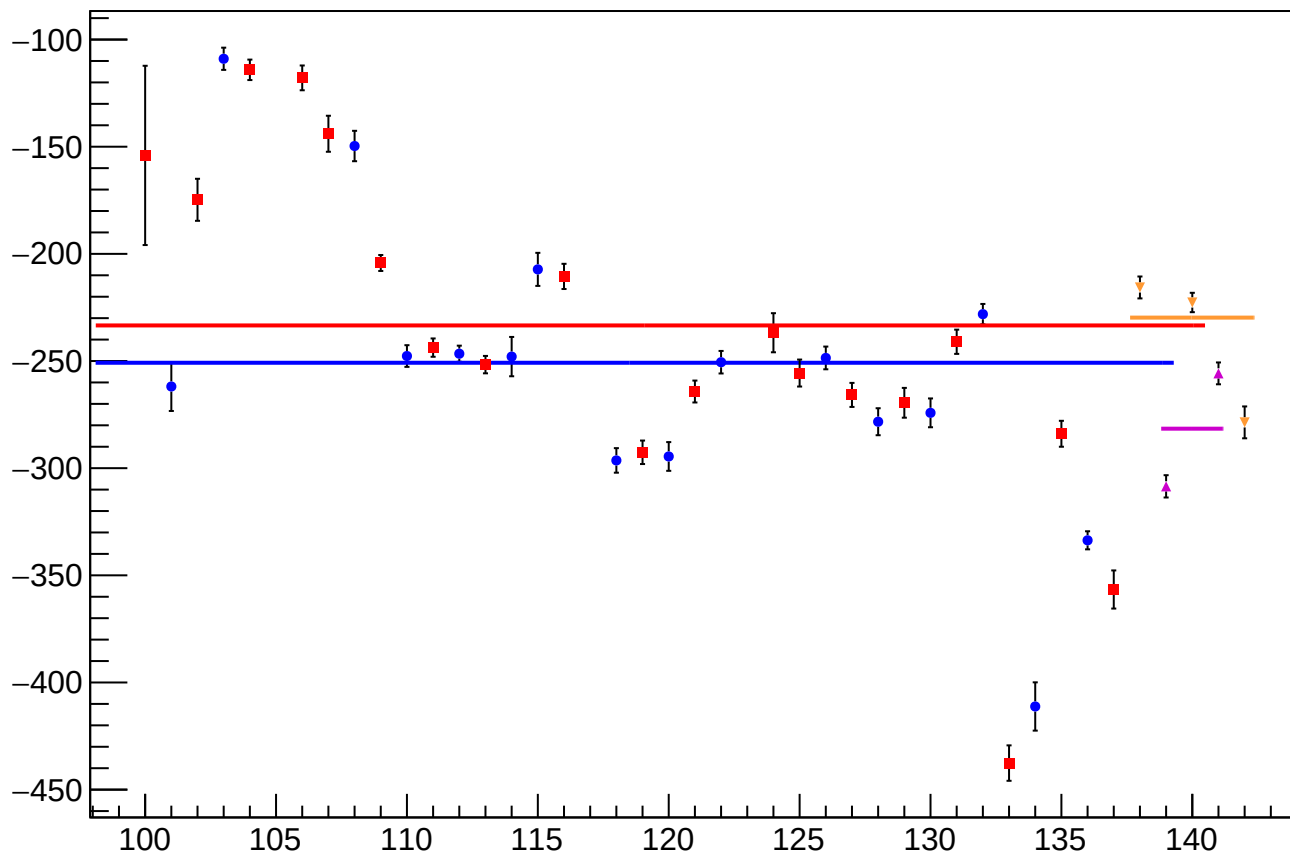
Right: 95.972 $\pm$ 0.048 χ^2 /NDF: 648694.2/34

In: 113.074 $\pm$ 0.062 χ^2 /NDF: 287987.6/17

Out: 99.509 $\pm$ 0.058 χ^2 /NDF: 517030.8/21

All: 105.785 $\pm$ 0.042 χ^2 /NDF: 830658.4/39

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -250.812 $\pm$ 1.438 χ^2 /NDF: 1735.7/15

Left Out: -229.744 $\pm$ 3.081 χ^2 /NDF:53.2/2

Right Out: -233.396 $\pm$ 1.333 χ^2 /NDF: 2378.5/18

Left In: -281.572 $\pm$ 3.641 χ^2 /NDF:52.4/1

Left: -251.371 $\pm$ 2.352 χ^2 /NDF: 223.6/4

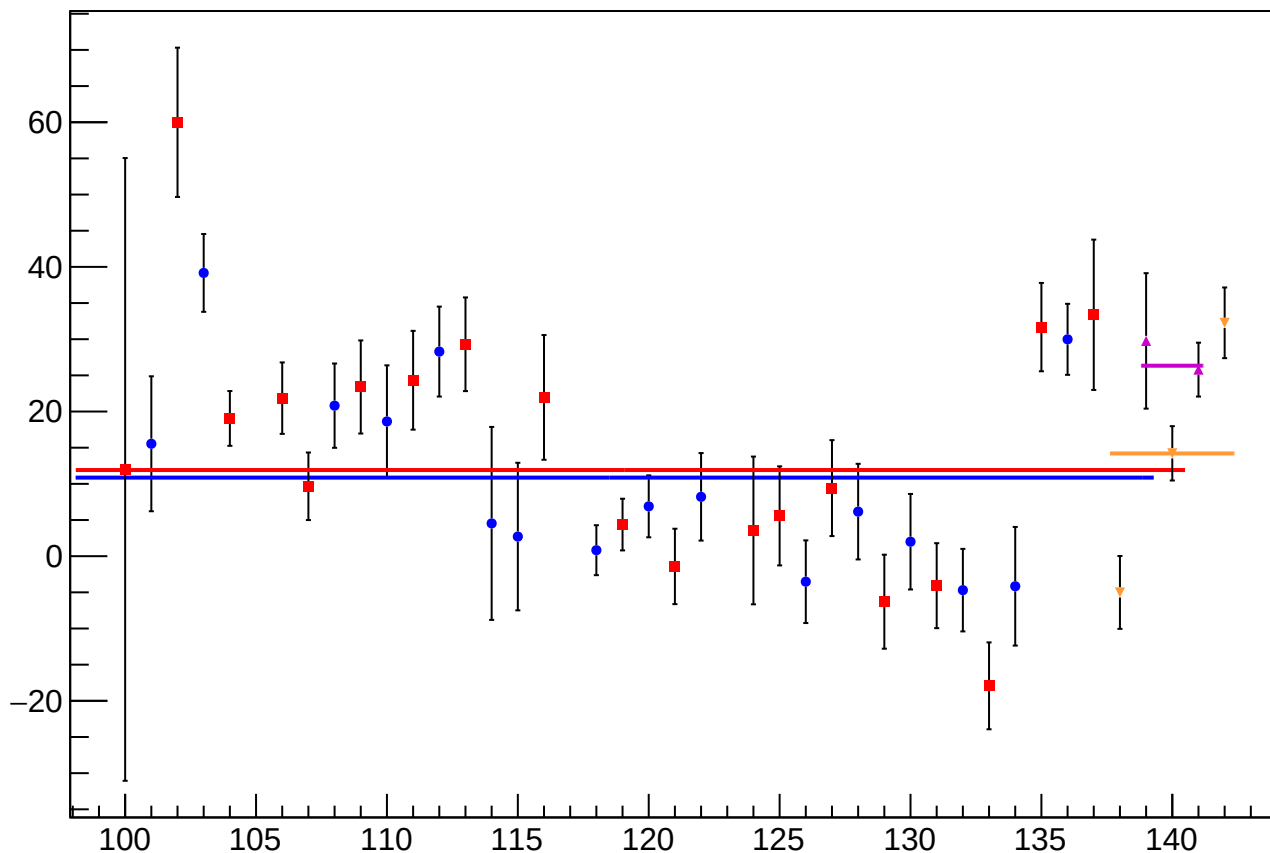
Right: -241.445 $\pm$ 0.978 χ^2 /NDF: 4193.1/34

In: -254.963 $\pm$ 1.338 χ^2 /NDF:1849.8/17

Out: -232.820 $\pm$ 1.224 χ^2 /NDF:2432.9/21

All: -242.908 $\pm$ 0.903 χ^2 /NDF: 4431.9/39

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.864 $\pm$ 1.471 χ^2 /NDF: 84.7/15

Left Out: 14.202 $\pm$ 2.564 χ^2 /NDF:28.2/2

Right Out: 11.912 $\pm$ 1.368 χ^2 /NDF: 111.9/18

Left In: 26.337 $\pm$ 3.461 χ^2 /NDF:0.2/1

Left: 18.501 $\pm$ 2.060 χ^2 /NDF: 36.3/4

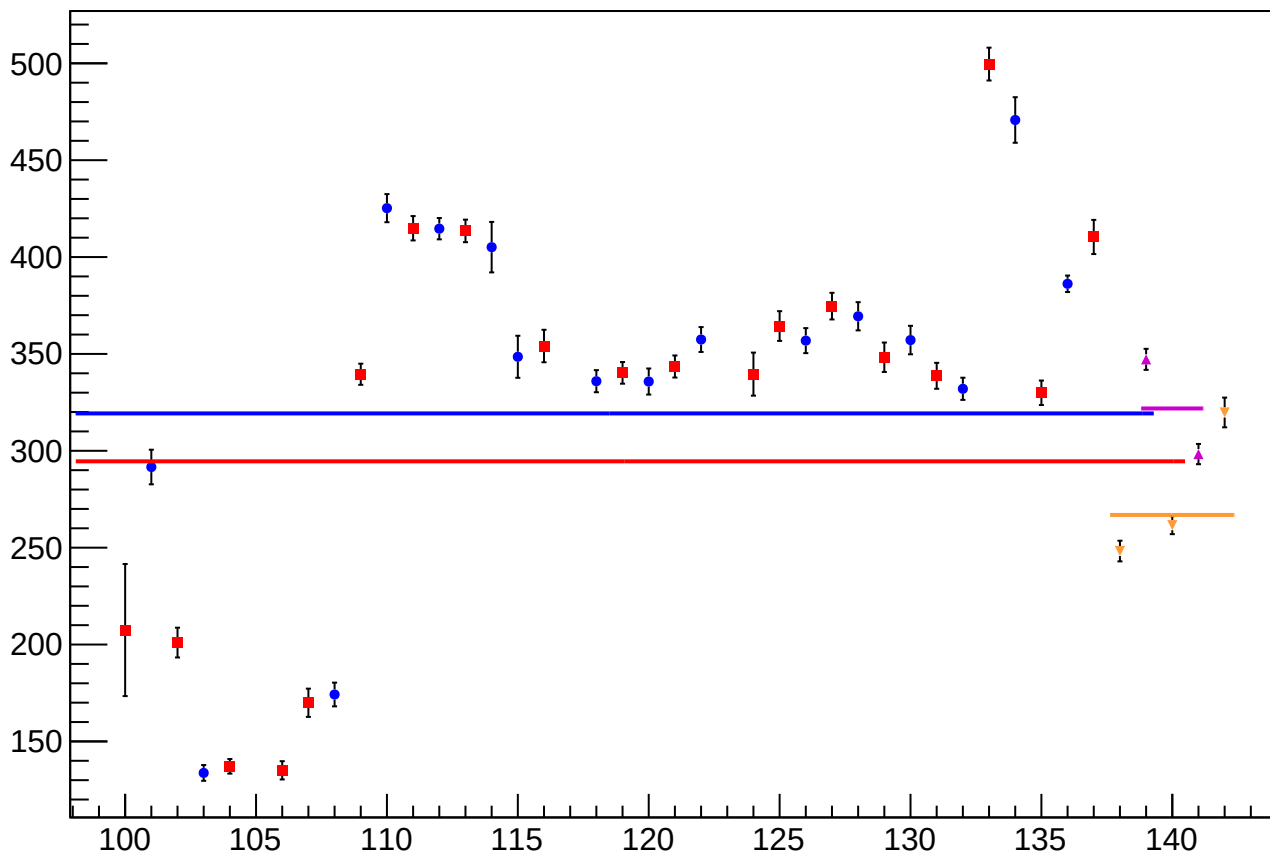
Right: 11.426 $\pm$ 1.001 χ^2 /NDF: 196.9/34

In: 13.230 $\pm$ 1.353 χ^2 /NDF:101.7/17

Out: 12.419 $\pm$ 1.207 χ^2 /NDF:140.8/21

All: 12.778 $\pm$ 0.901 χ^2 /NDF: 242.7/39

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 319.293 $\pm$ 1.586 χ^2 /NDF: 3792.9/15

Left Out: 266.895 $\pm$ 3.187 χ^2 /NDF: 61.1/2

Right Out: 294.567 $\pm$ 1.481 χ^2 /NDF: 5503.2/18

Left In: 321.852 $\pm$ 3.764 χ^2 /NDF: 42.1/1

Left: 289.836 $\pm$ 2.432 χ^2 /NDF: 227.4/4

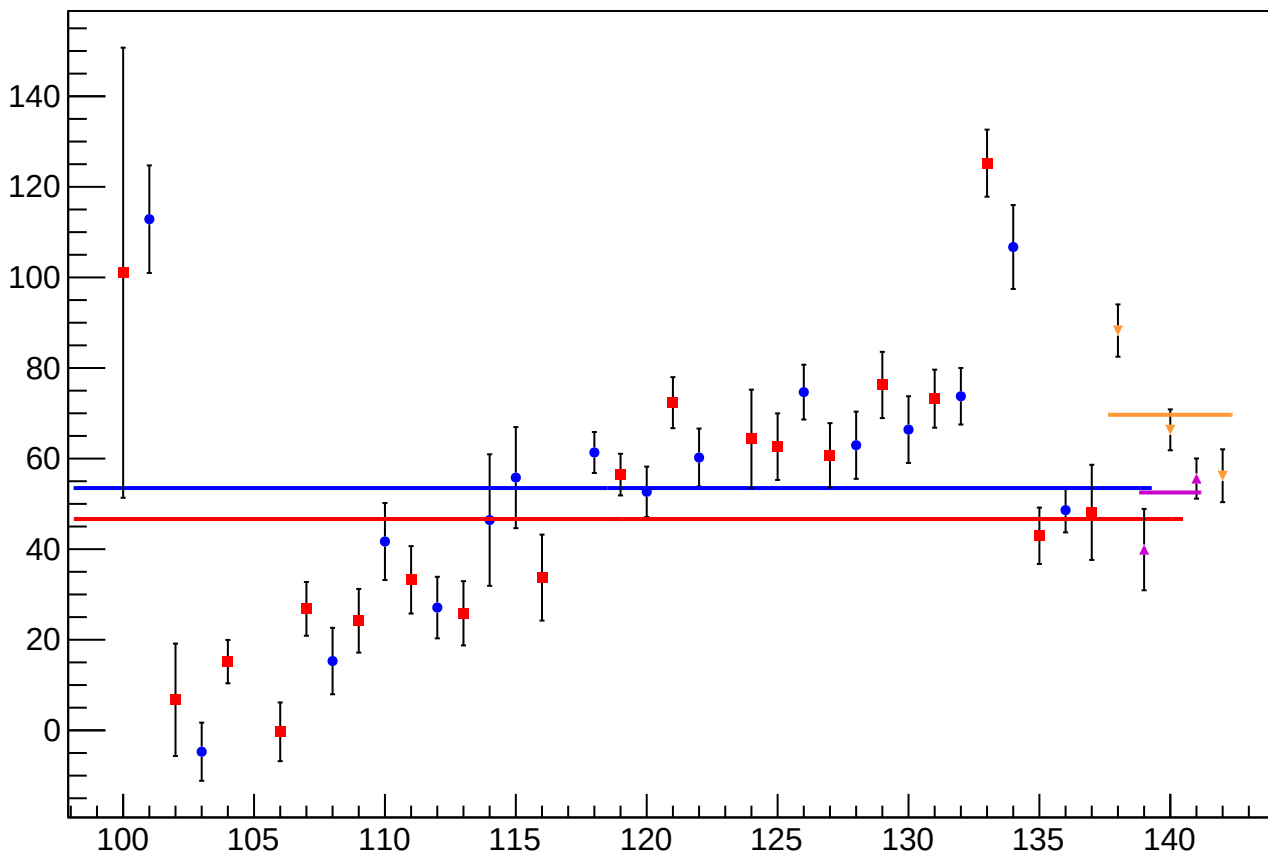
Right: 306.088 $\pm$ 1.083 χ^2 /NDF: 9425.9/34

In: 319.679 $\pm$ 1.462 χ^2 /NDF: 3835.4/17

Out: 289.649 $\pm$ 1.343 χ^2 /NDF: 5626.3/21

All: 303.400 $\pm$ 0.989 χ^2 /NDF: 9690.5/39

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 53.494+/-1.699 χ^2/NDF : 217.2/15

Left Out: 69.671+/-3.038 χ^2/NDF :16.2/2

Right Out: 46.666+/-1.593 χ^2/NDF : 325.6/18

Left In: 52.518+/-3.975 χ^2/NDF :2.5/1

Left: 63.348+/-2.414 χ^2/NDF : 30.4/4

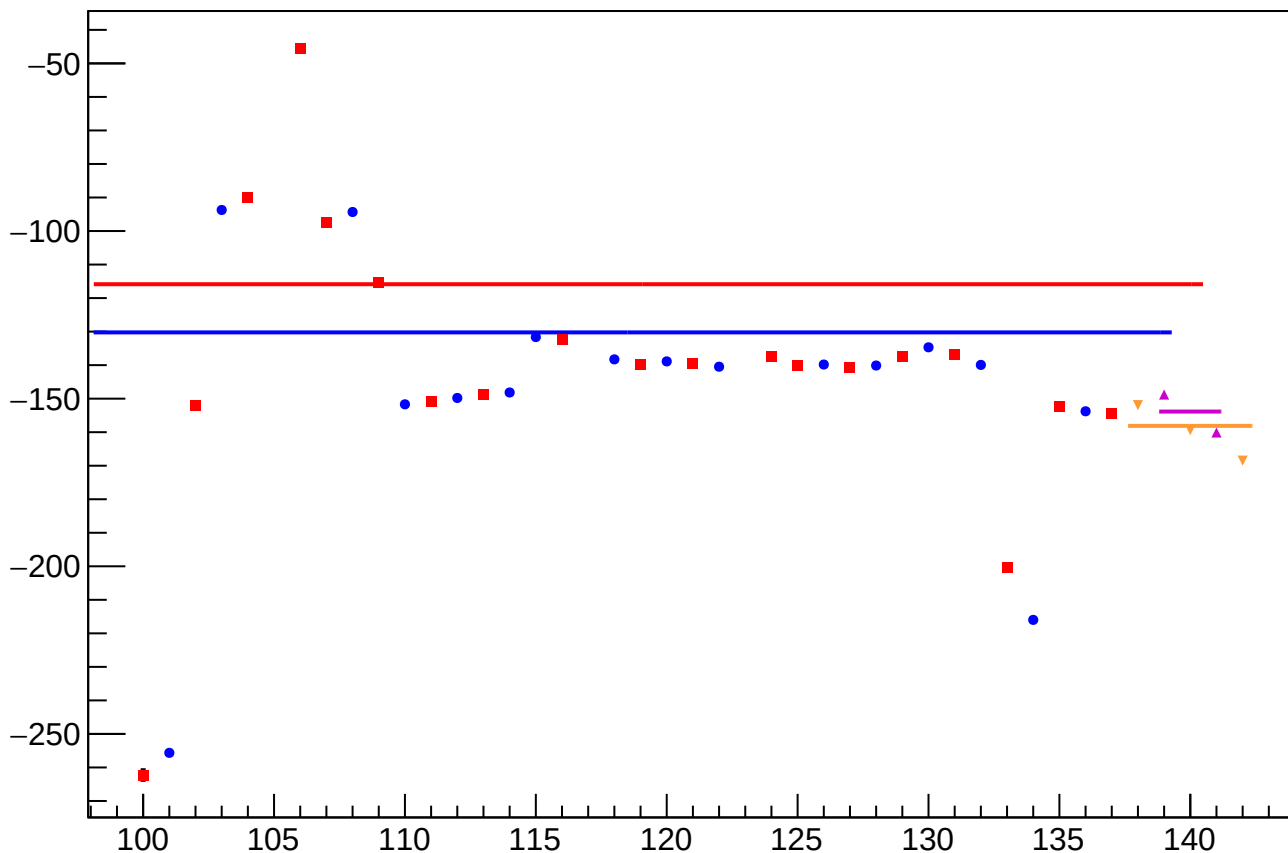
Right: 49.861+/-1.162 χ^2/NDF : 551.4/34

In: 53.343+/-1.562 χ^2/NDF :219.7/17

Out: 51.630+/-1.411 χ^2/NDF :386.8/21

All: 52.400+/-1.047 χ^2/NDF : 607.2/39

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -130.236+/-0.091 χ^2 /NDF: 174208.5/15

Left Out: -158.111+/-0.135 χ^2 /NDF:1955.4/2

Right Out: -115.865+/-0.086 χ^2 /NDF: 205899.4/18

Left In: -153.848+/-0.144 χ^2 /NDF:1535.2/1

Left: -156.117+/-0.098 χ^2 /NDF: 3959.2/4

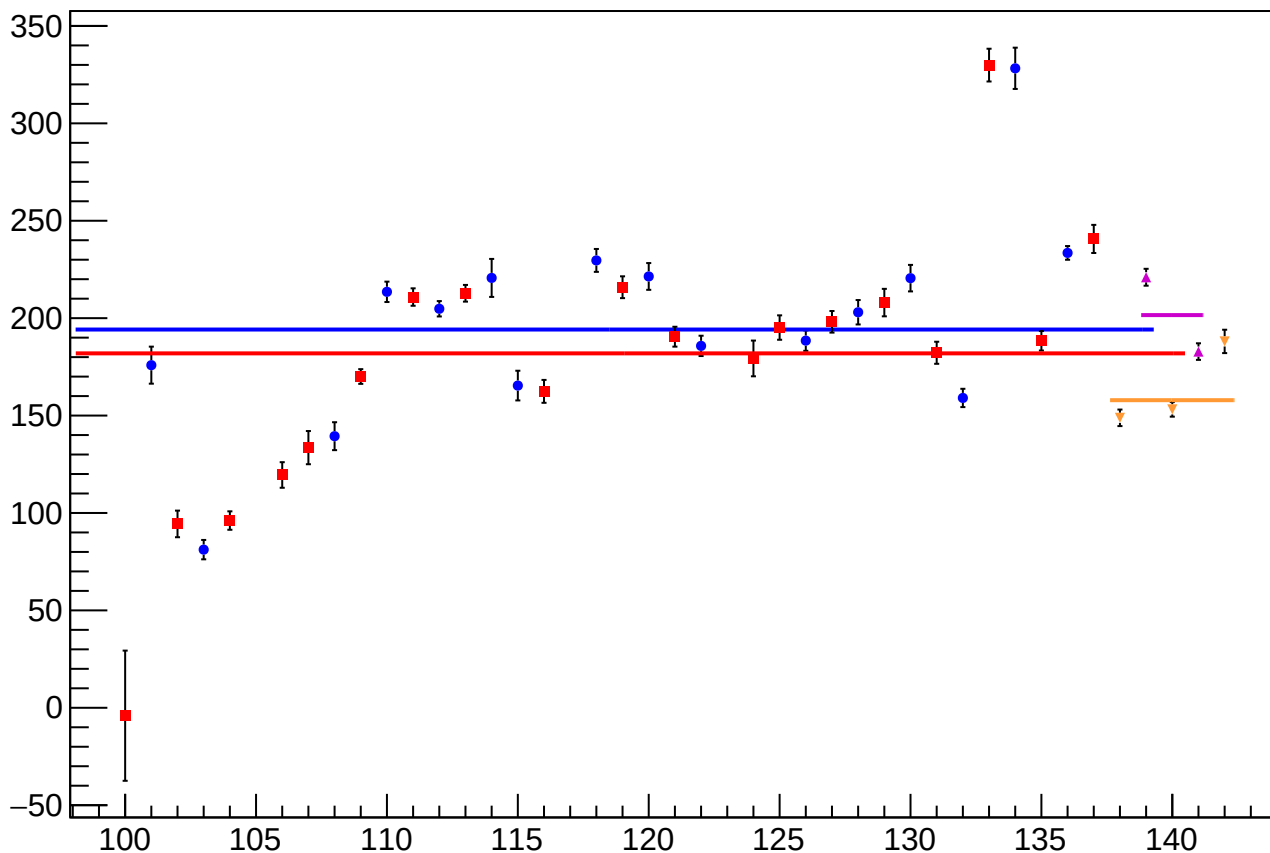
Right: -122.615+/-0.062 χ^2 /NDF: 393311.6/34

In: -137.005+/-0.077 χ^2 /NDF:195009.4/17

Out: -128.047+/-0.072 χ^2 /NDF:277896.6/21

All: -132.250+/-0.053 χ^2 /NDF: 480104.9/39

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 194.164+/-1.407 χ^2/NDF : 1035.2/15

Left Out: 157.895+/-2.543 χ^2/NDF :31.5/2

Right Out: 181.928+/-1.322 χ^2/NDF : 1204.8/18

Left In: 201.574+/-3.037 χ^2/NDF :39.5/1

Left: 175.900+/-1.950 χ^2/NDF : 192.5/4

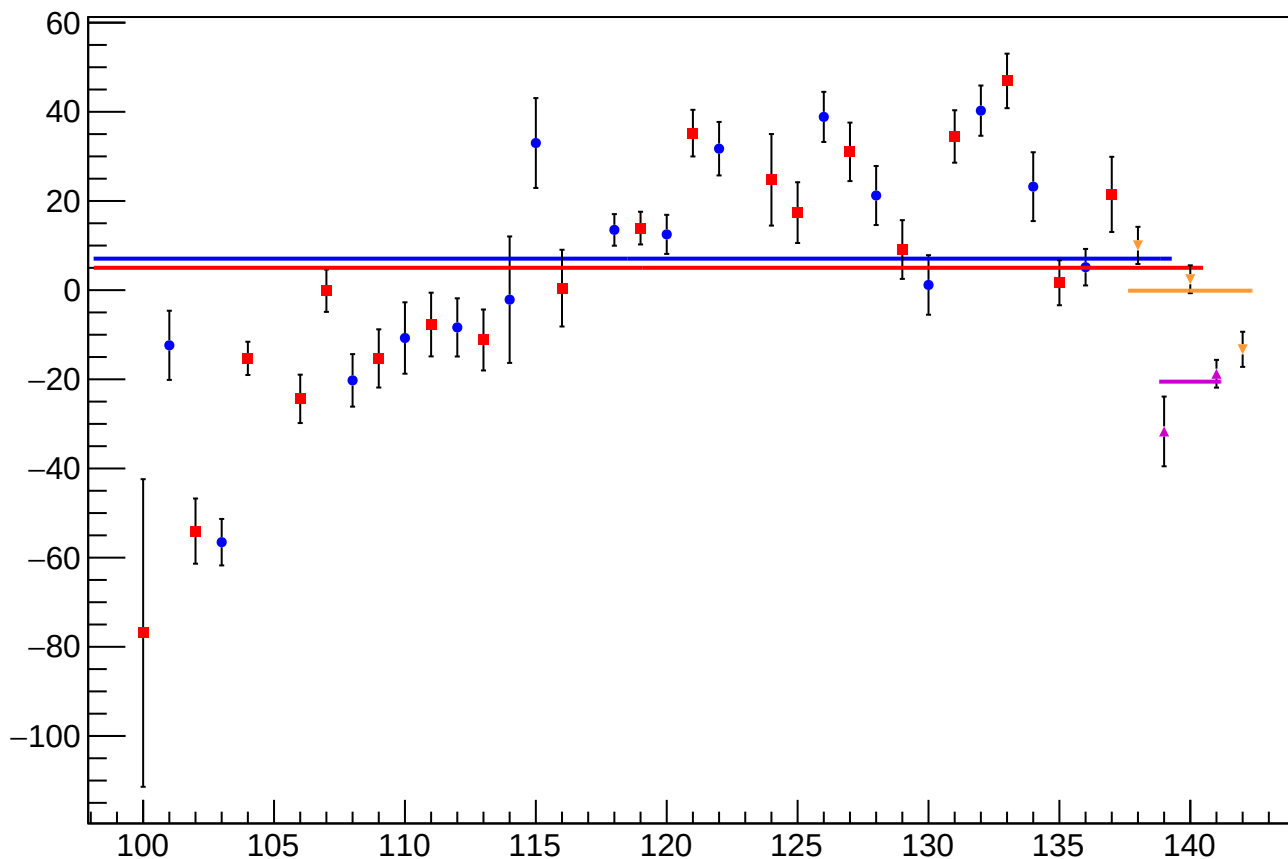
Right: 187.666+/-0.963 χ^2/NDF : 2280.2/34

In: 195.473+/-1.276 χ^2/NDF :1079.5/17

Out: 176.816+/-1.173 χ^2/NDF :1306.6/21

All: 185.358+/-0.864 χ^2/NDF : 2502.0/39

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.066 ± 1.443 χ^2/NDF : 292.6/15

Left Out: -0.118 ± 2.109 χ^2/NDF : 17.8/2

Right Out: 5.015 ± 1.355 χ^2/NDF : 288.5/18

Left In: -20.524 ± 2.892 χ^2/NDF : 2.4/1

Left: -7.202 ± 1.704 χ^2/NDF : 52.6/4

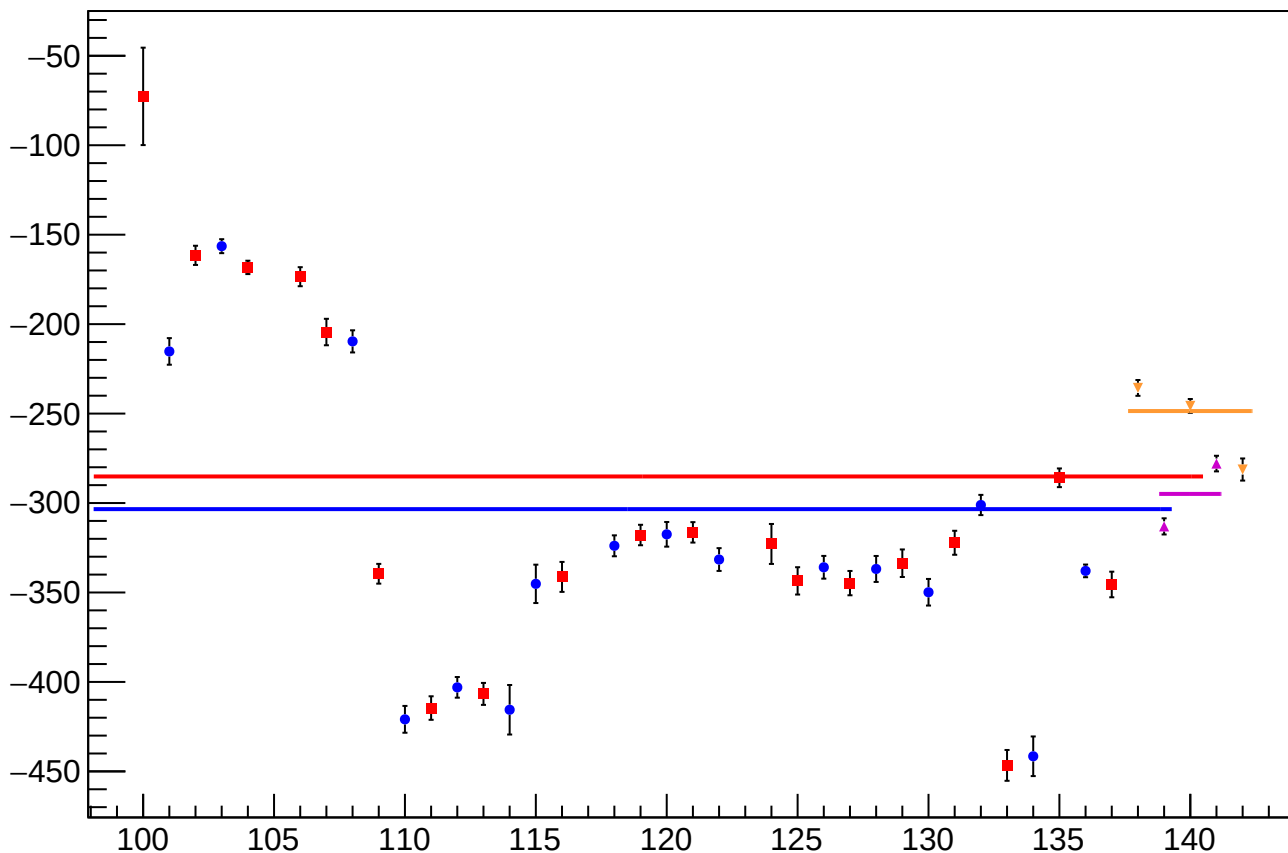
Right: 5.976 ± 0.988 χ^2/NDF : 582.2/34

In: 1.567 ± 1.291 χ^2/NDF : 367.8/17

Out: 3.516 ± 1.140 χ^2/NDF : 310.5/21

All: 2.662 ± 0.854 χ^2/NDF : 679.6/39

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -303.408+/-1.530 χ^2/NDF : 2785.5/15

Left Out: -248.584+/-2.630 χ^2/NDF : 37.0/2

Right Out: -285.148+/-1.451 χ^2/NDF : 3754.8/18

Left In: -294.903+/-3.139 χ^2/NDF : 31.2/1

Left: -267.687+/-2.016 χ^2/NDF : 196.2/4

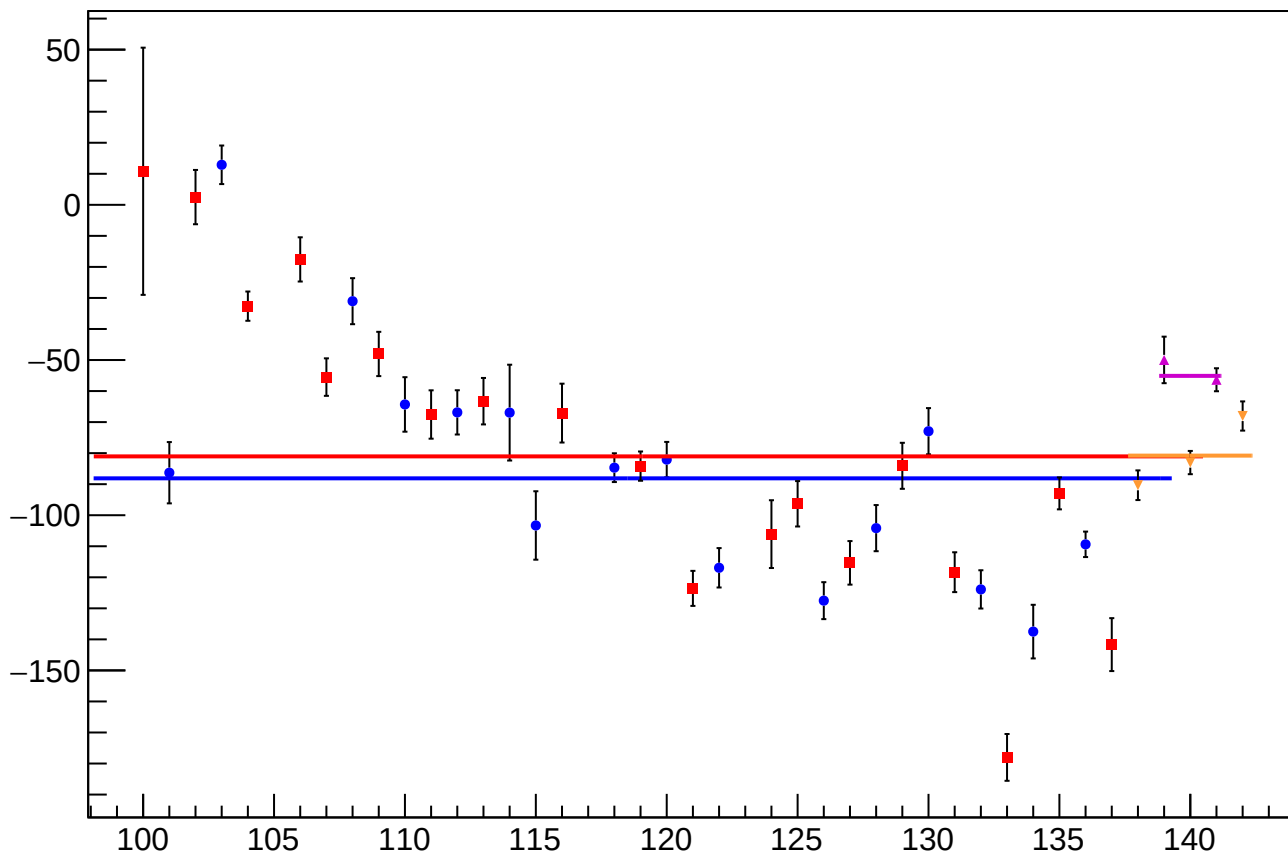
Right: -293.794+/-1.053 χ^2/NDF : 6615.3/34

In: -301.775+/-1.375 χ^2/NDF : 2822.7/17

Out: -276.616+/-1.270 χ^2/NDF : 3940.0/21

All: -288.200+/-0.933 χ^2/NDF : 6943.3/39

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -88.119 ± 1.655 $\chi^2/\text{NDF}: 511.9/15$

Left Out: -80.798 ± 2.499 $\chi^2/\text{NDF}: 11.7/2$

Right Out: -81.046 ± 1.569 $\chi^2/\text{NDF}: 677.5/18$

Left In: -55.104 ± 3.320 $\chi^2/\text{NDF}: 0.6/1$

Left: -71.508 ± 1.996 $\chi^2/\text{NDF}: 50.5/4$

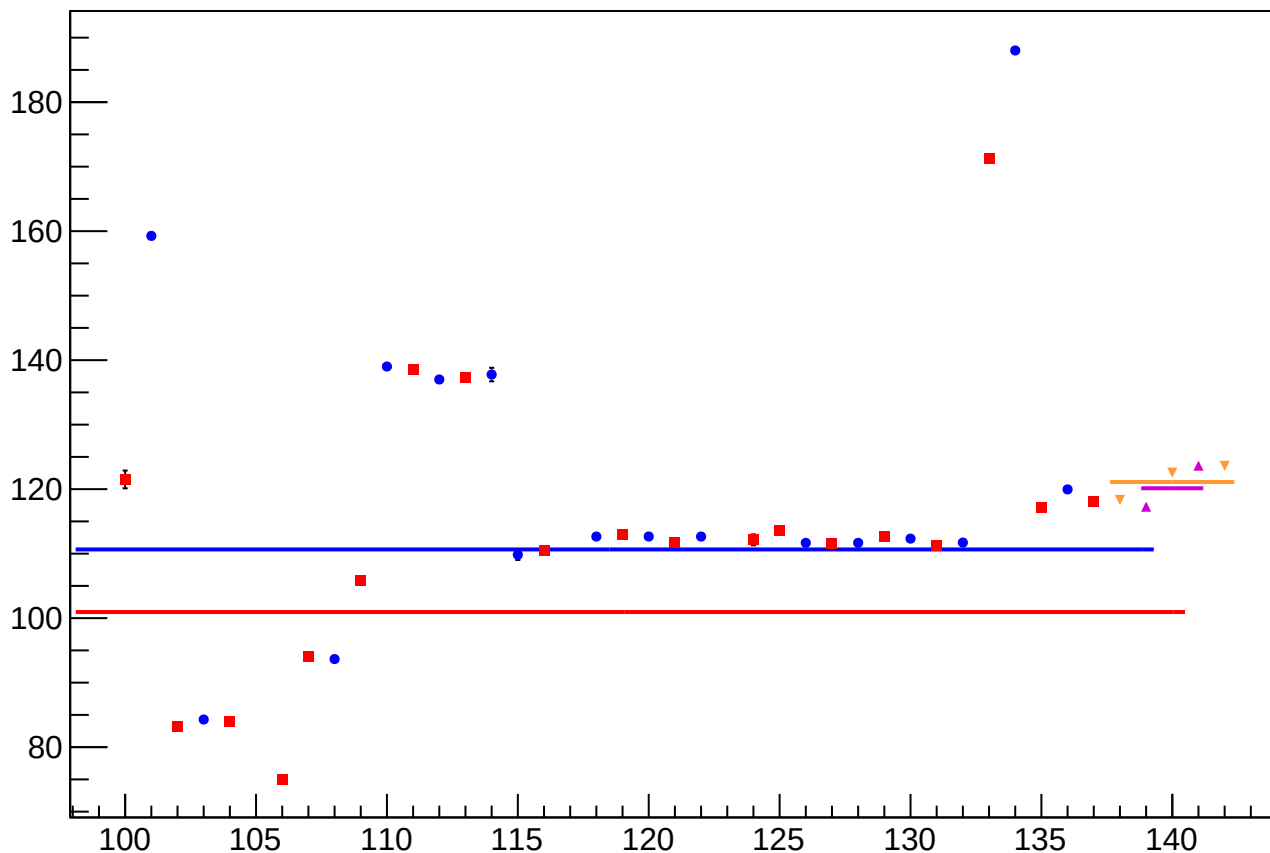
Right: -84.394 ± 1.139 $\chi^2/\text{NDF}: 1199.1/34$

In: -81.548 ± 1.481 $\chi^2/\text{NDF}: 591.7/17$

Out: -80.976 ± 1.329 $\chi^2/\text{NDF}: 689.2/21$

All: -81.231 ± 0.989 $\chi^2/\text{NDF}: 1281.0/39$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 110.651+/-0.086 χ^2/NDF : 83521.8/15

Left Out: 121.107+/-0.111 χ^2/NDF : 413.6/2

Right Out: 100.949+/-0.081 χ^2/NDF : 62002.4/18

Left In: 120.138+/-0.120 χ^2/NDF : 695.1/1

Left: 120.660+/-0.081 χ^2/NDF : 1143.8/4

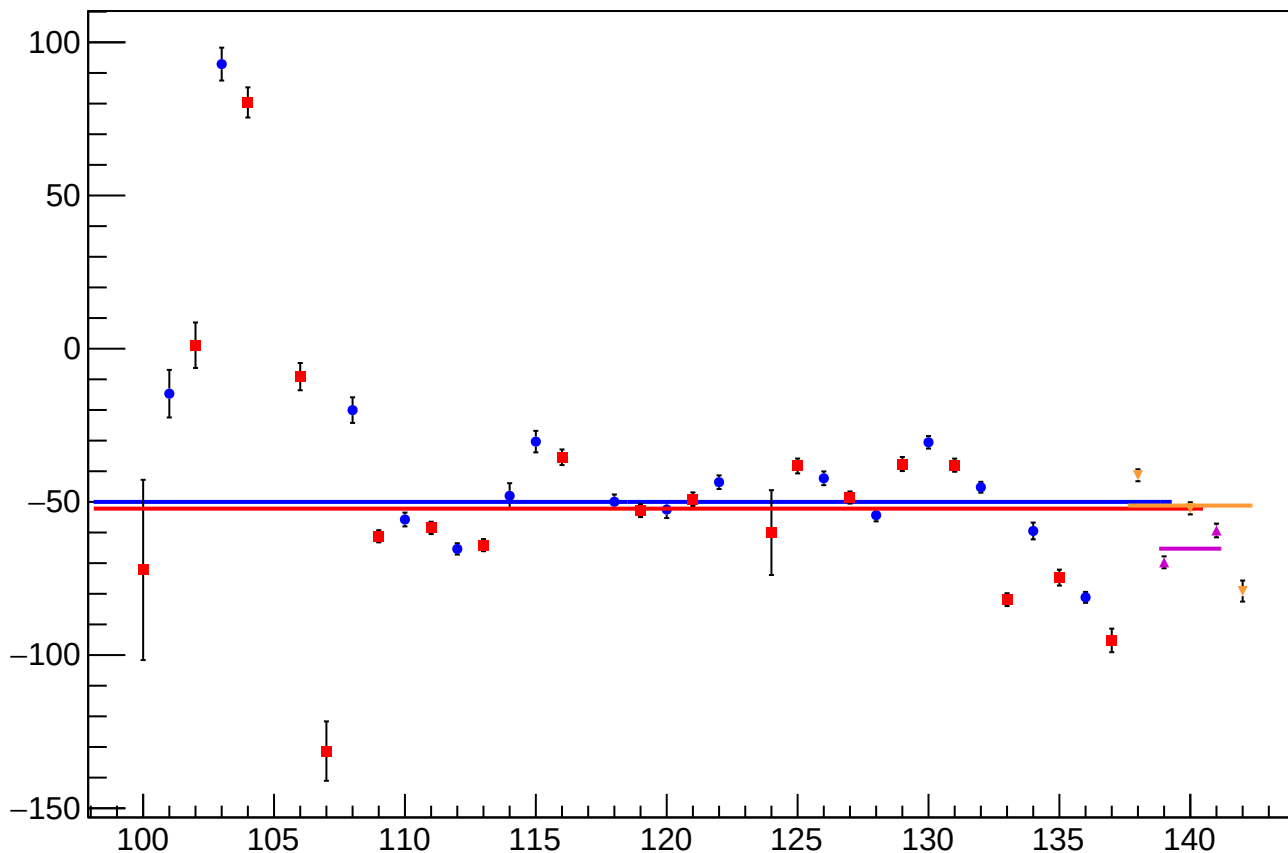
Right: 105.518+/-0.059 χ^2/NDF : 152285.6/34

In: 113.864+/-0.070 χ^2/NDF : 88355.9/17

Out: 107.946+/-0.065 χ^2/NDF : 83927.2/21

All: 110.714+/-0.048 χ^2/NDF : 176111.3/39

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -50.008 ± 0.610 $\chi^2/\text{NDF}: 1327.4/15$

Left Out: -51.206 ± 1.292 $\chi^2/\text{NDF}: 91.7/2$

Right Out: -52.207 ± 0.605 $\chi^2/\text{NDF}: 1570.3/18$

Left In: -65.274 ± 1.467 $\chi^2/\text{NDF}: 12.3/1$

Left: -57.353 ± 0.970 $\chi^2/\text{NDF}: 155.8/4$

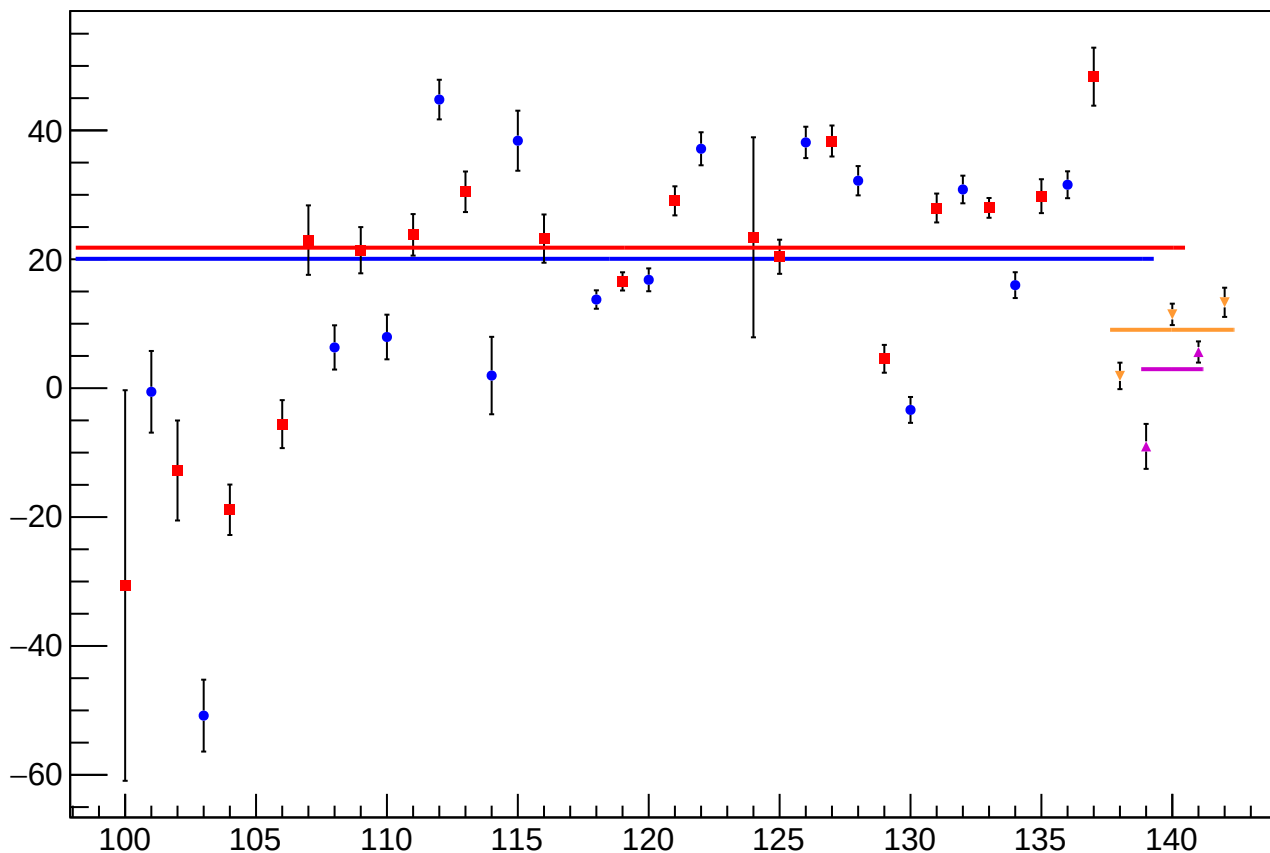
Right: -51.116 ± 0.430 $\chi^2/\text{NDF}: 2904.2/34$

In: -52.258 ± 0.563 $\chi^2/\text{NDF}: 1432.0/17$

Out: -52.027 ± 0.548 $\chi^2/\text{NDF}: 1662.5/21$

All: -52.140 ± 0.393 $\chi^2/\text{NDF}: 3094.6/39$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 20.072 $\pm$ 0.612 χ^2 /NDF: 636.2/15

Left Out: 9.059 $\pm$ 1.122 χ^2 /NDF:17.7/2

Right Out: 21.800 $\pm$ 0.622 χ^2 /NDF: 396.3/18

Left In: 2.948 $\pm$ 1.488 χ^2 /NDF:14.4/1

Left: 6.843 $\pm$ 0.896 χ^2 /NDF: 42.9/4

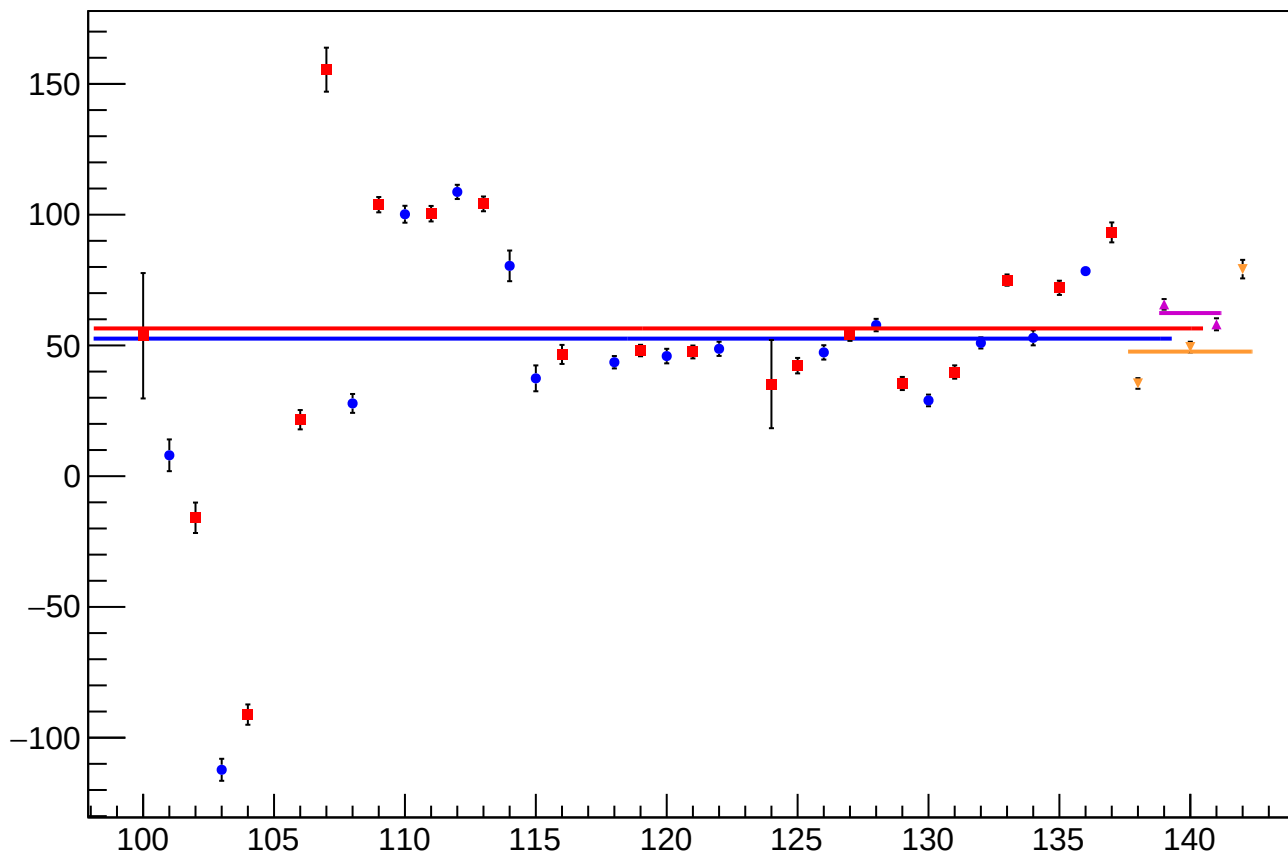
Right: 20.922 $\pm$ 0.436 χ^2 /NDF: 1036.5/34

In: 17.594 $\pm$ 0.566 χ^2 /NDF:763.9/17

Out: 18.806 $\pm$ 0.544 χ^2 /NDF:512.7/21

All: 18.224 $\pm$ 0.392 χ^2 /NDF: 1279.0/39

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 52.605 ± 0.696 $\chi^2/\text{NDF}: 2659.4/15$

Left Out: 47.640 ± 1.338 $\chi^2/\text{NDF}: 115.5/2$

Right Out: 56.499 ± 0.705 $\chi^2/\text{NDF}: 2965.5/18$

Left In: 62.378 ± 1.519 $\chi^2/\text{NDF}: 6.2/1$

Left: 54.081 ± 1.004 $\chi^2/\text{NDF}: 174.7/4$

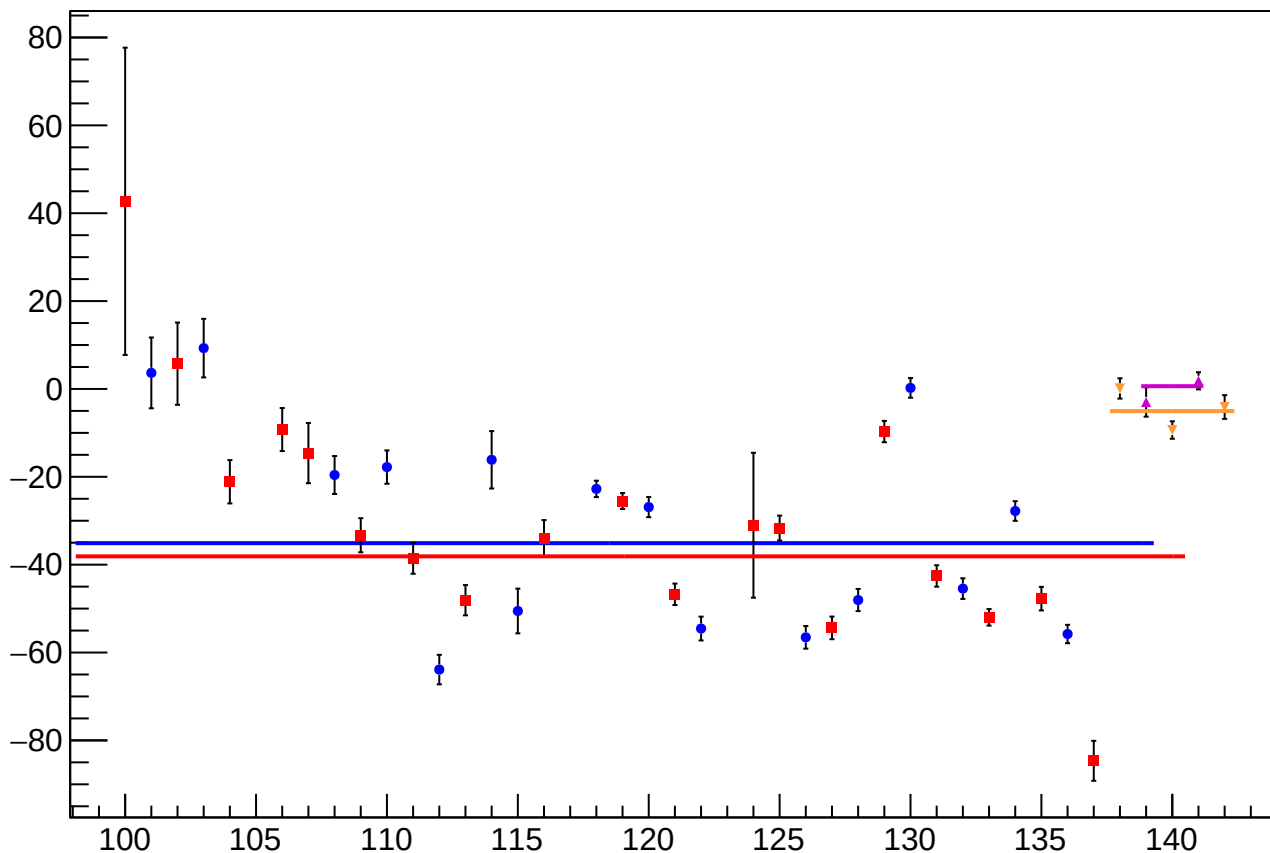
Right: 54.527 ± 0.496 $\chi^2/\text{NDF}: 5640.4/34$

In: 54.302 ± 0.633 $\chi^2/\text{NDF}: 2699.8/17$

Out: 54.572 ± 0.624 $\chi^2/\text{NDF}: 3115.3/21$

All: 54.439 ± 0.444 $\chi^2/\text{NDF}: 5815.2/39$

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -35.104 ± 0.700 χ^2/NDF : 773.2/15

Left Out: -5.037 ± 1.317 χ^2/NDF : 9.8/2

Right Out: -38.109 ± 0.714 χ^2/NDF : 514.6/18

Left In: 0.627 ± 1.686 χ^2/NDF : 1.5/1

Left: -2.890 ± 1.038 χ^2/NDF : 18.3/4

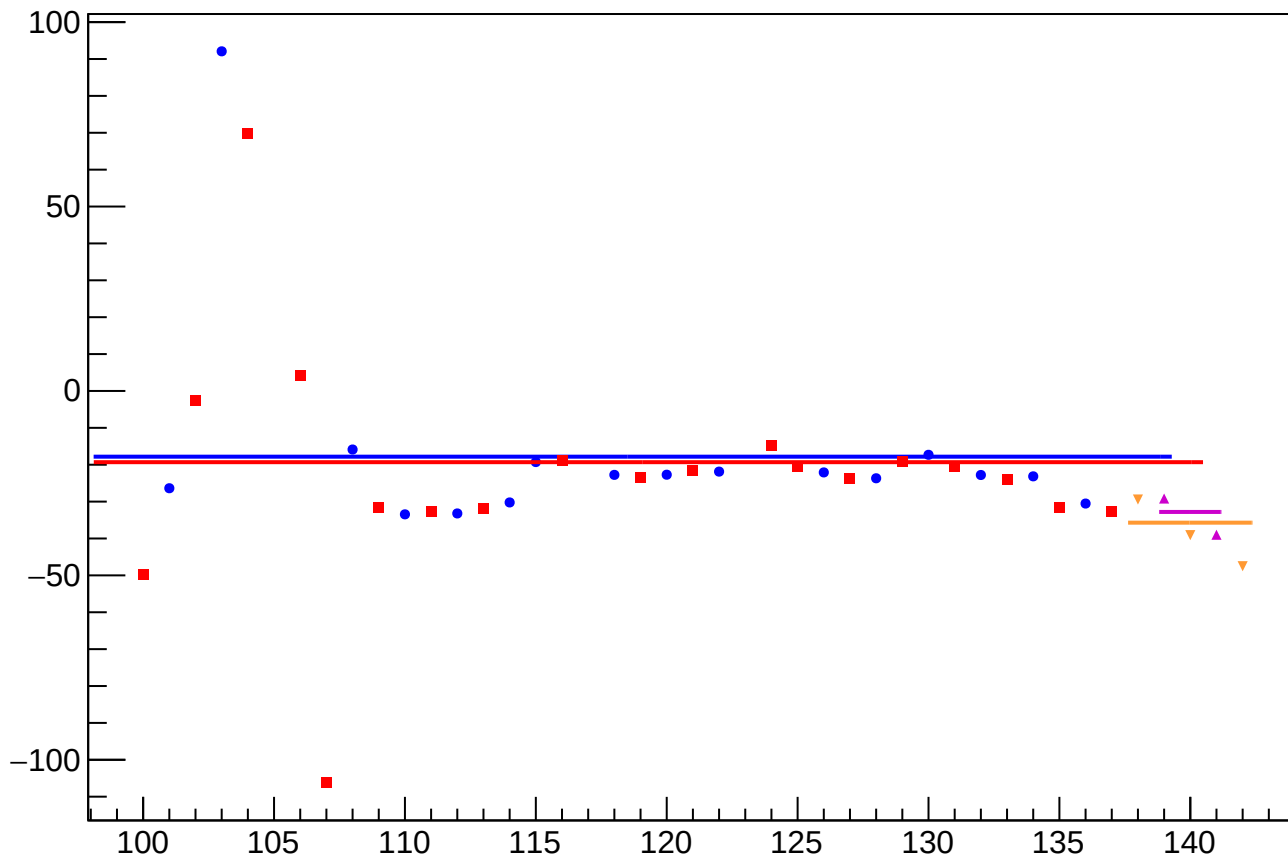
Right: -36.577 ± 0.500 χ^2/NDF : 1296.8/34

In: -29.849 ± 0.647 χ^2/NDF : 1157.8/17

Out: -30.601 ± 0.628 χ^2/NDF : 1011.6/21

All: -30.236 ± 0.450 χ^2/NDF : 2170.2/39

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -17.817 ± 0.043 χ^2/NDF : 426105.1/15

Left Out: -35.710 ± 0.056 χ^2/NDF : 14123.4/2

Right Out: -19.311 ± 0.046 χ^2/NDF : 344626.7/18

Left In: -32.803 ± 0.057 χ^2/NDF : 6893.2/1

Left: -34.294 ± 0.040 χ^2/NDF : 22346.2/4

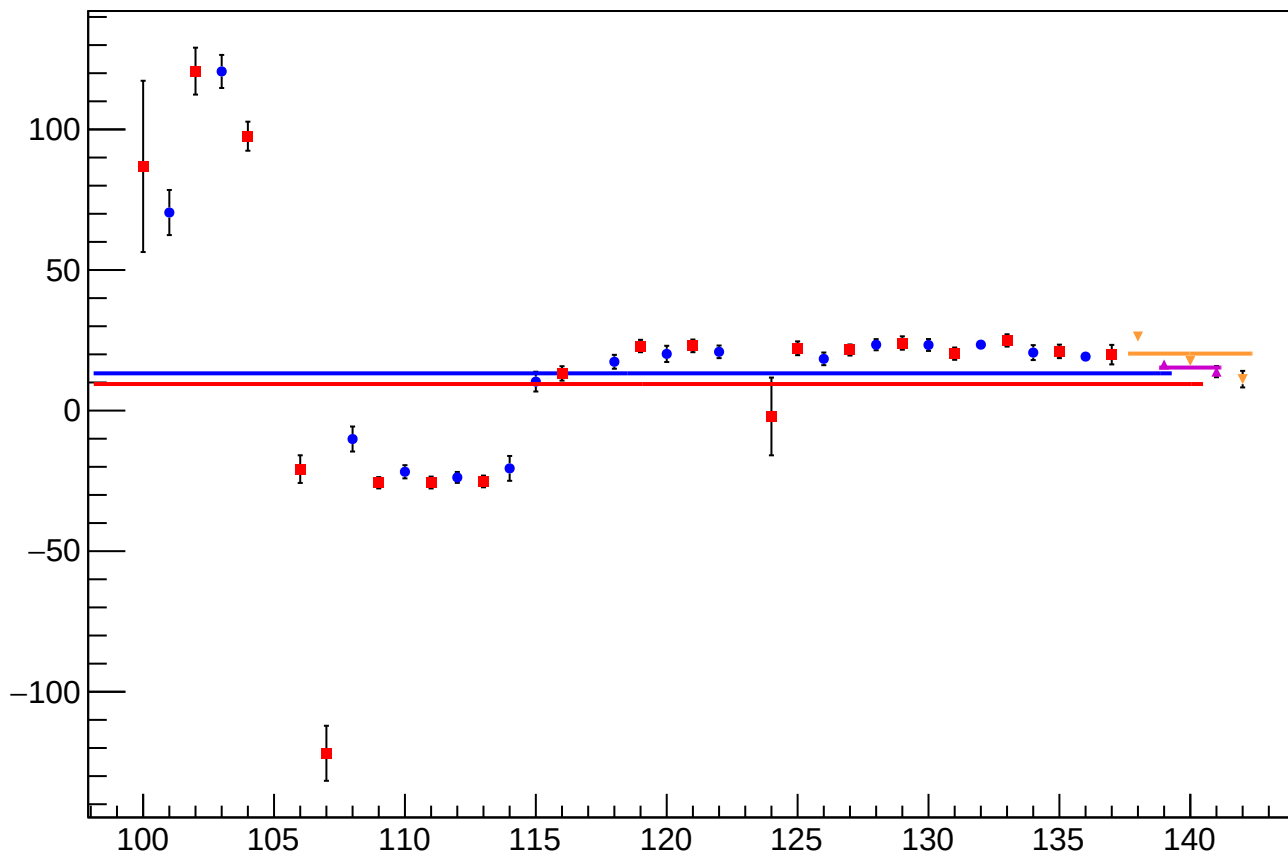
Right: -18.516 ± 0.032 χ^2/NDF : 771290.6/34

In: -23.277 ± 0.034 χ^2/NDF : 476780.7/17

Out: -25.986 ± 0.035 χ^2/NDF : 410287.3/21

All: -24.592 ± 0.025 χ^2/NDF : 890066.3/39

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.250+/-0.615 χ^2/NDF : 1182.5/15

Left Out: 20.271+/-1.151 χ^2/NDF : 23.2/2

Right Out: 9.450+/-0.615 χ^2/NDF : 1836.6/18

Left In: 15.305+/-1.303 χ^2/NDF : 0.9/1

Left: 18.095+/-0.862 χ^2/NDF : 32.3/4

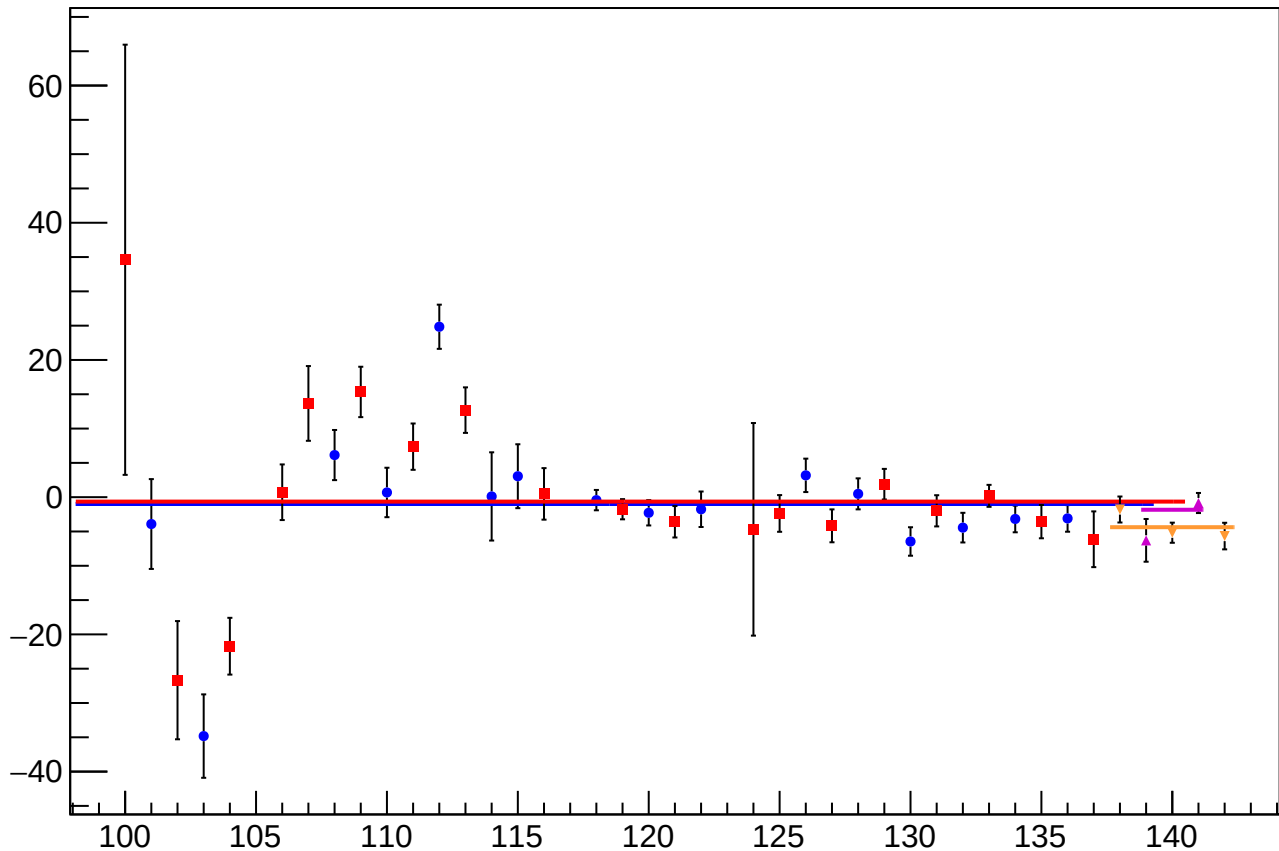
Right: 11.351+/-0.435 χ^2/NDF : 3038.2/34

In: 13.624+/-0.556 χ^2/NDF : 1185.4/17

Out: 11.855+/-0.542 χ^2/NDF : 1928.7/21

All: 12.718+/-0.388 χ^2/NDF : 3119.3/39

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.993 ± 0.619 χ^2/NDF : 116.3/15

Left Out: -4.376 ± 0.995 χ^2/NDF : 2.6/2

Right Out: -0.644 ± 0.636 χ^2/NDF : 94.2/18

Left In: -1.835 ± 1.325 χ^2/NDF : 2.5/1

Left: -3.460 ± 0.796 χ^2/NDF : 7.5/4

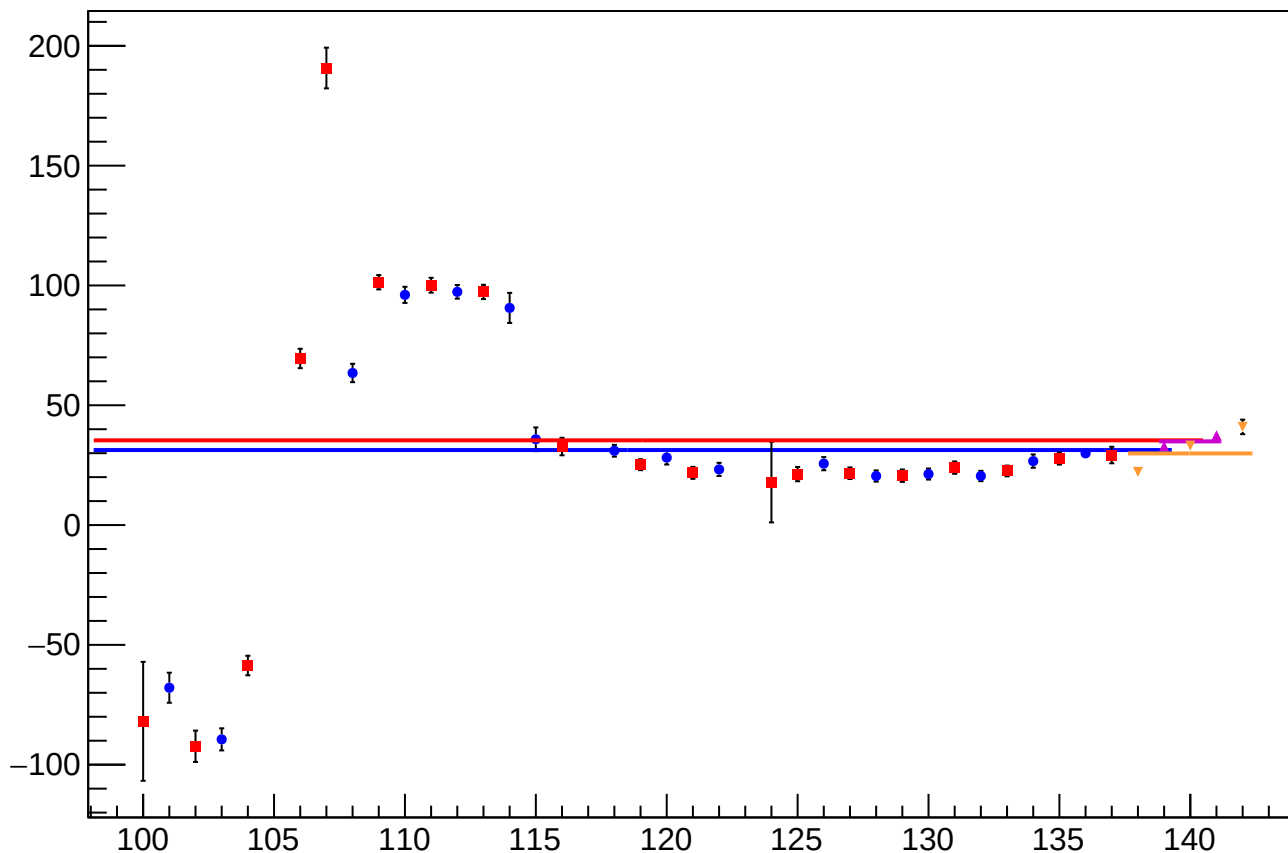
Right: -0.823 ± 0.443 χ^2/NDF : 210.7/34

In: -1.144 ± 0.561 χ^2/NDF : 119.2/17

Out: -1.726 ± 0.536 χ^2/NDF : 106.8/21

All: -1.449 ± 0.387 χ^2/NDF : 226.6/39

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 31.310 $\pm$ 0.700 χ^2 /NDF: 2085.9/15

Left Out: 29.890 $\pm$ 1.191 χ^2 /NDF:33.8/2

Right Out: 35.366 $\pm$ 0.717 χ^2 /NDF: 2897.7/18

Left In: 34.923 $\pm$ 1.348 χ^2 /NDF:2.8/1

Left: 32.096 $\pm$ 0.893 χ^2 /NDF: 44.3/4

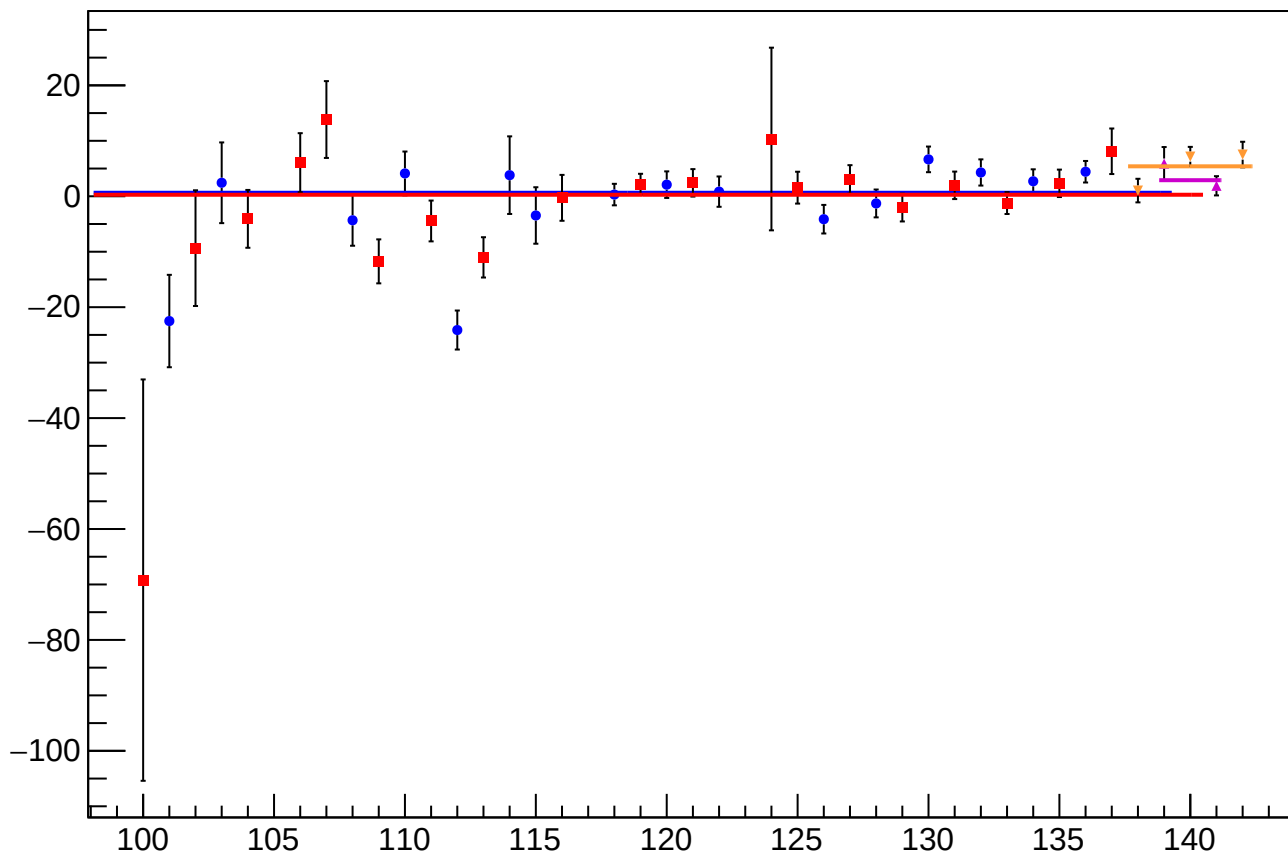
Right: 33.289 $\pm$ 0.501 χ^2 /NDF: 4999.9/34

In: 32.077 $\pm$ 0.621 χ^2 /NDF:2094.3/17

Out: 33.909 $\pm$ 0.614 χ^2 /NDF:2946.9/21

All: 33.004 $\pm$ 0.437 χ^2 /NDF: 5045.6/39

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.632 ± 0.705 χ^2/NDF : 78.4/15

Left Out: 5.400 ± 1.167 χ^2/NDF : 6.1/2

Right Out: 0.274 ± 0.726 χ^2/NDF : 40.5/18

Left In: 2.898 ± 1.501 χ^2/NDF : 1.3/1

Left: 4.457 ± 0.921 χ^2/NDF : 9.1/4

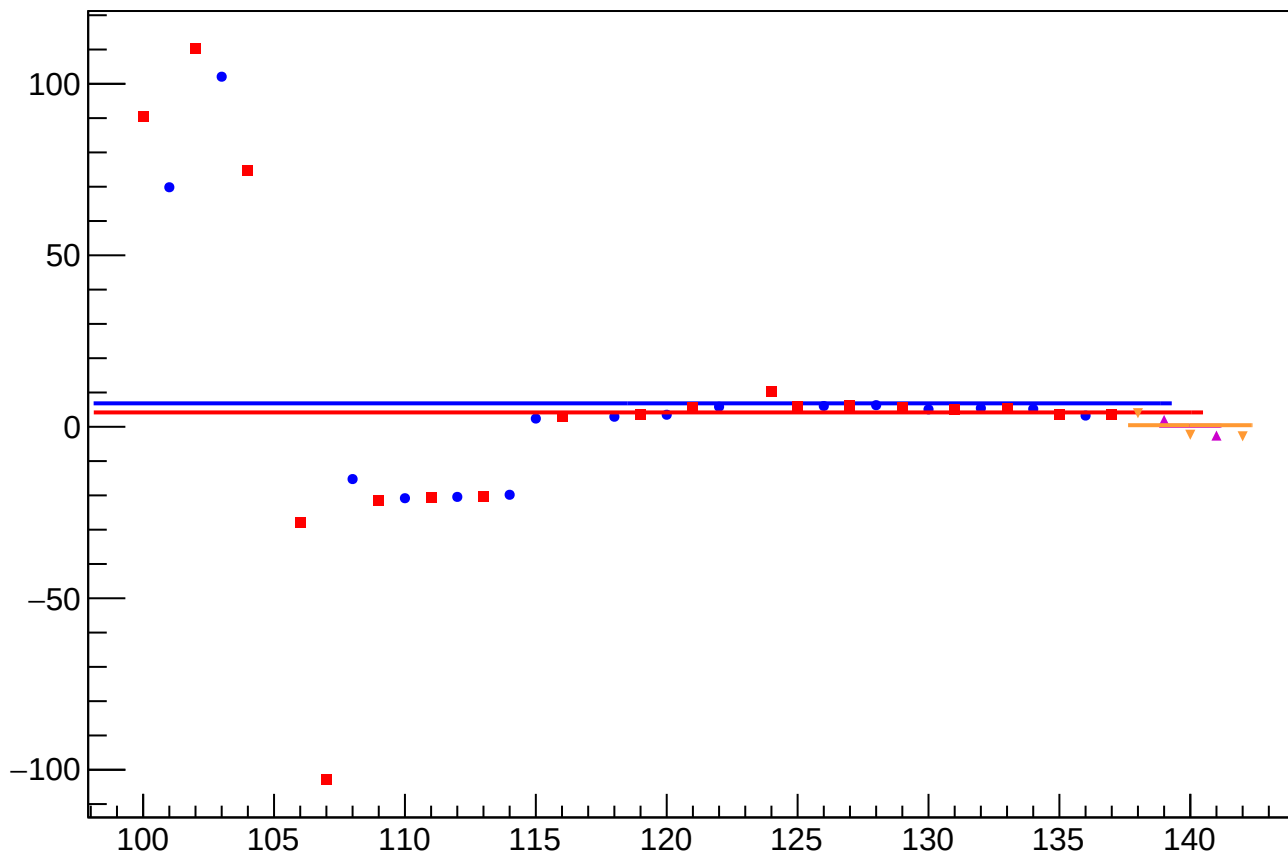
Right: 0.459 ± 0.506 χ^2/NDF : 119.0/34

In: 1.042 ± 0.638 χ^2/NDF : 81.6/17

Out: 1.704 ± 0.616 χ^2/NDF : 60.4/21

All: 1.384 ± 0.443 χ^2/NDF : 142.6/39

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 6.838 ± 0.043 $\chi^2/\text{NDF}: 320954.7/15$

Left Out: 0.465 ± 0.049 $\chi^2/\text{NDF}: 4189.9/2$

Right Out: 4.190 ± 0.046 $\chi^2/\text{NDF}: 434546.8/18$

Left In: 0.295 ± 0.051 $\chi^2/\text{NDF}: 1883.7/1$

Left: 0.382 ± 0.035 $\chi^2/\text{NDF}: 6079.4/4$

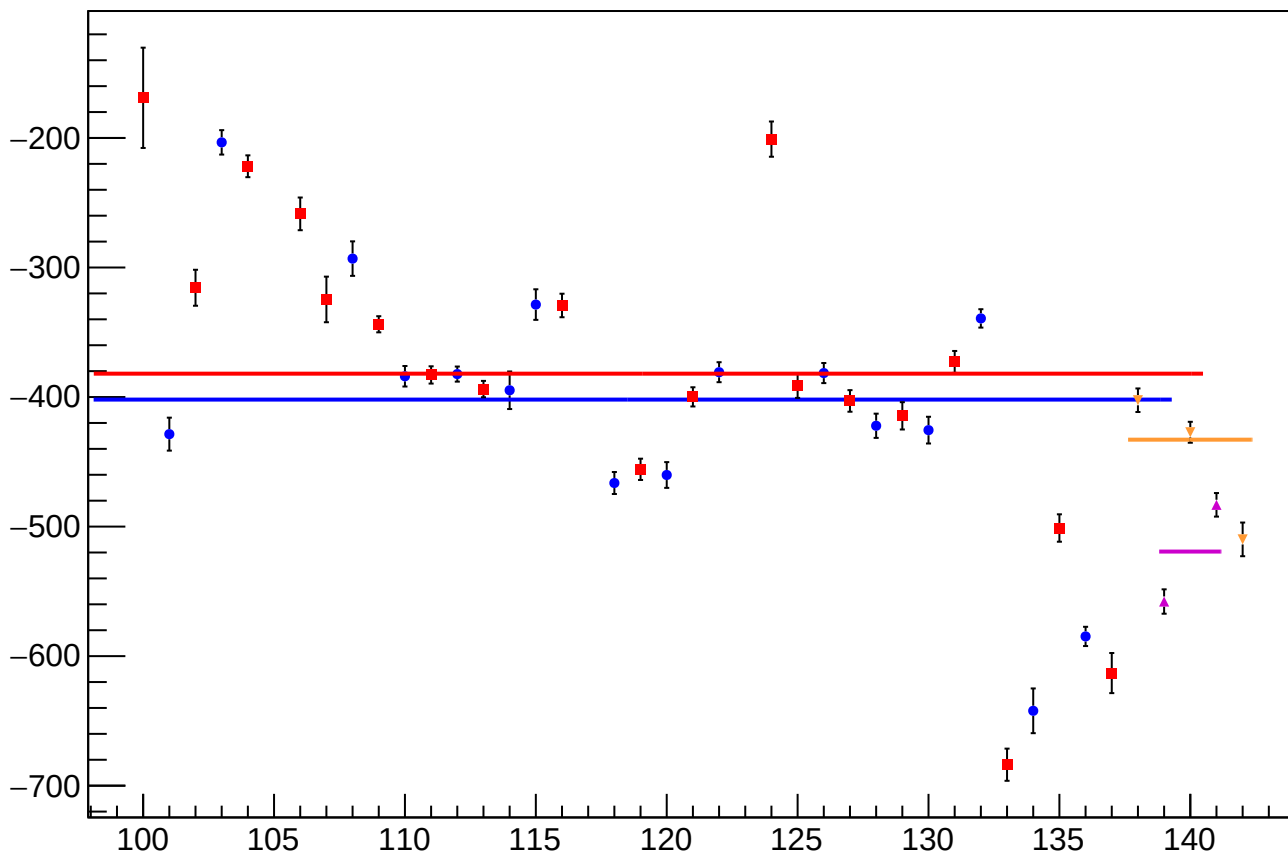
Right: 5.616 ± 0.031 $\chi^2/\text{NDF}: 757263.1/34$

In: 4.119 ± 0.033 $\chi^2/\text{NDF}: 332527.6/17$

Out: 2.450 ± 0.034 $\chi^2/\text{NDF}: 441760.8/21$

All: 3.311 ± 0.024 $\chi^2/\text{NDF}: 775546.0/39$

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -401.961+/-2.236 χ^2 /NDF: 1563.3/15

Left Out: -432.901+/-5.478 χ^2 /NDF:46.8/2

Right Out: -381.949+/-2.124 χ^2 /NDF: 1817.4/18

Left In: -519.277+/-6.539 χ^2 /NDF:32.5/1

Left: -468.519+/-4.199 χ^2 /NDF: 181.9/4

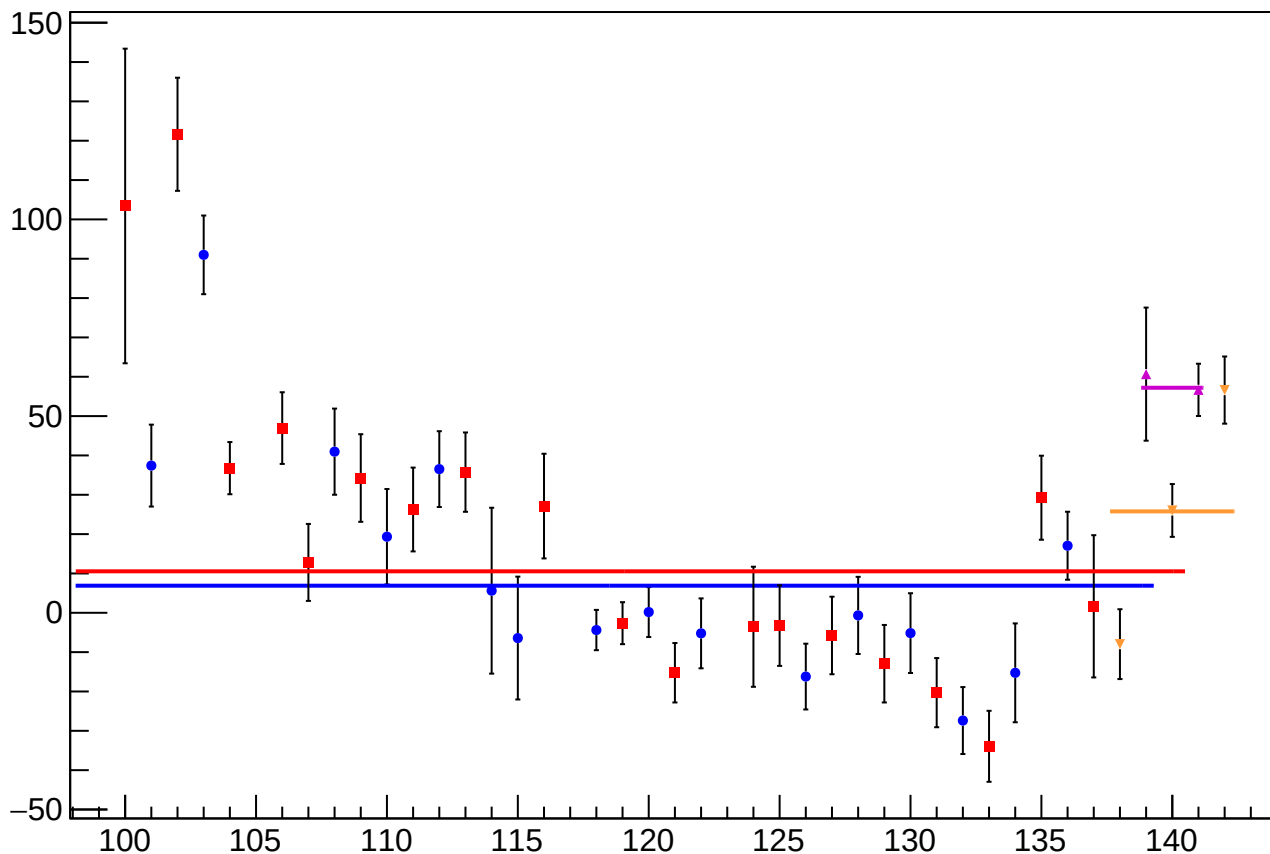
Right: -391.443+/-1.540 χ^2 /NDF: 3422.8/34

In: -414.244+/-2.116 χ^2 /NDF:1884.0/17

Out: -388.611+/-1.981 χ^2 /NDF:1939.4/21

All: -400.582+/-1.446 χ^2 /NDF: 3901.6/39

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.889 ± 2.264 χ^2/NDF : 138.4/15

Left Out: 25.781 ± 4.534 χ^2/NDF : 27.5/2

Right Out: 10.544 ± 2.197 χ^2/NDF : 180.0/18

Left In: 57.205 ± 6.184 χ^2/NDF : 0.0/1

Left: 36.770 ± 3.657 χ^2/NDF : 44.4/4

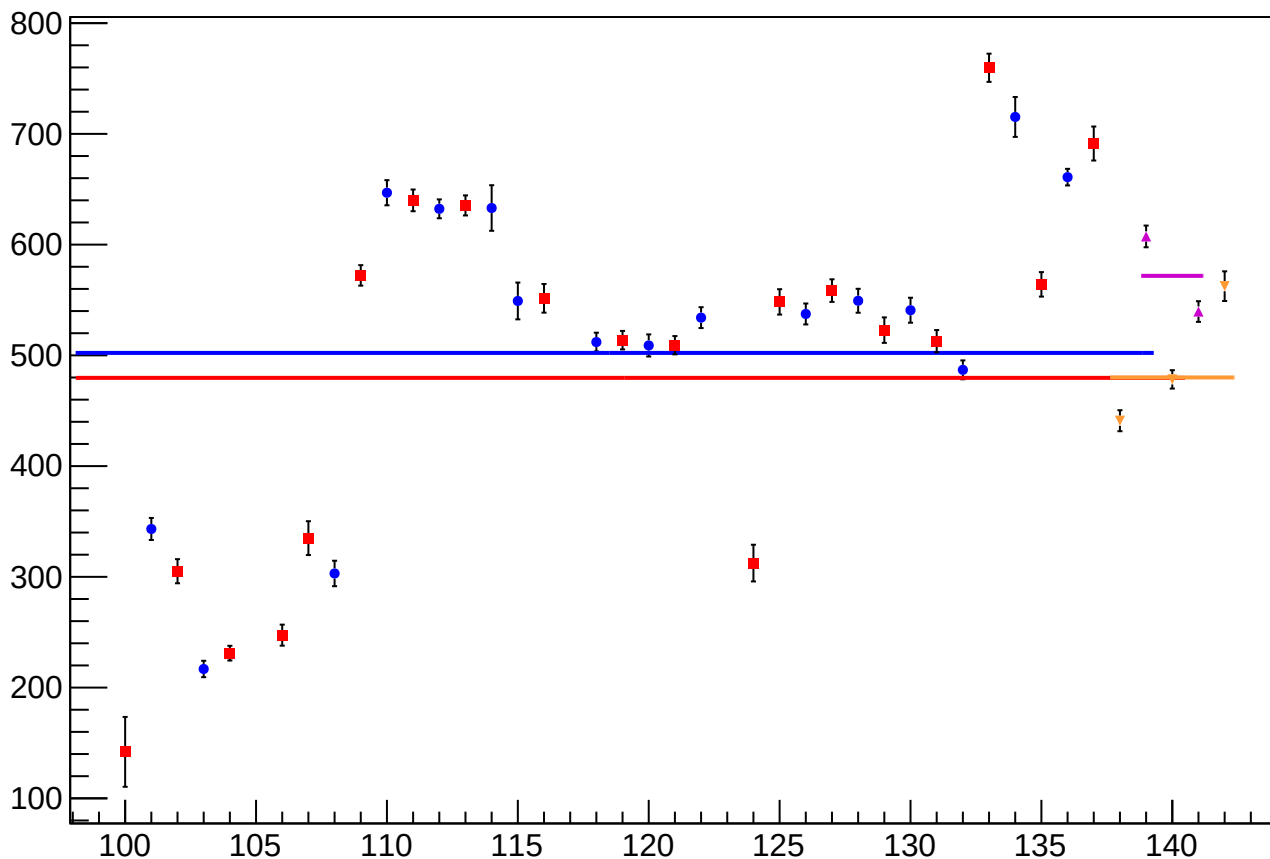
Right: 8.772 ± 1.577 χ^2/NDF : 319.8/34

In: 12.838 ± 2.126 χ^2/NDF : 196.9/17

Out: 13.441 ± 1.977 χ^2/NDF : 216.7/21

All: 13.161 ± 1.448 χ^2/NDF : 413.6/39

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 502.213+/-2.493 χ^2/NDF : 3135.2/15

Left Out: 480.038+/-5.664 χ^2/NDF : 54.8/2

Right Out: 479.679+/-2.399 χ^2/NDF : 4138.5/18

Left In: 571.807+/-6.759 χ^2/NDF : 25.1/1

Left: 517.895+/-4.341 χ^2/NDF : 188.2/4

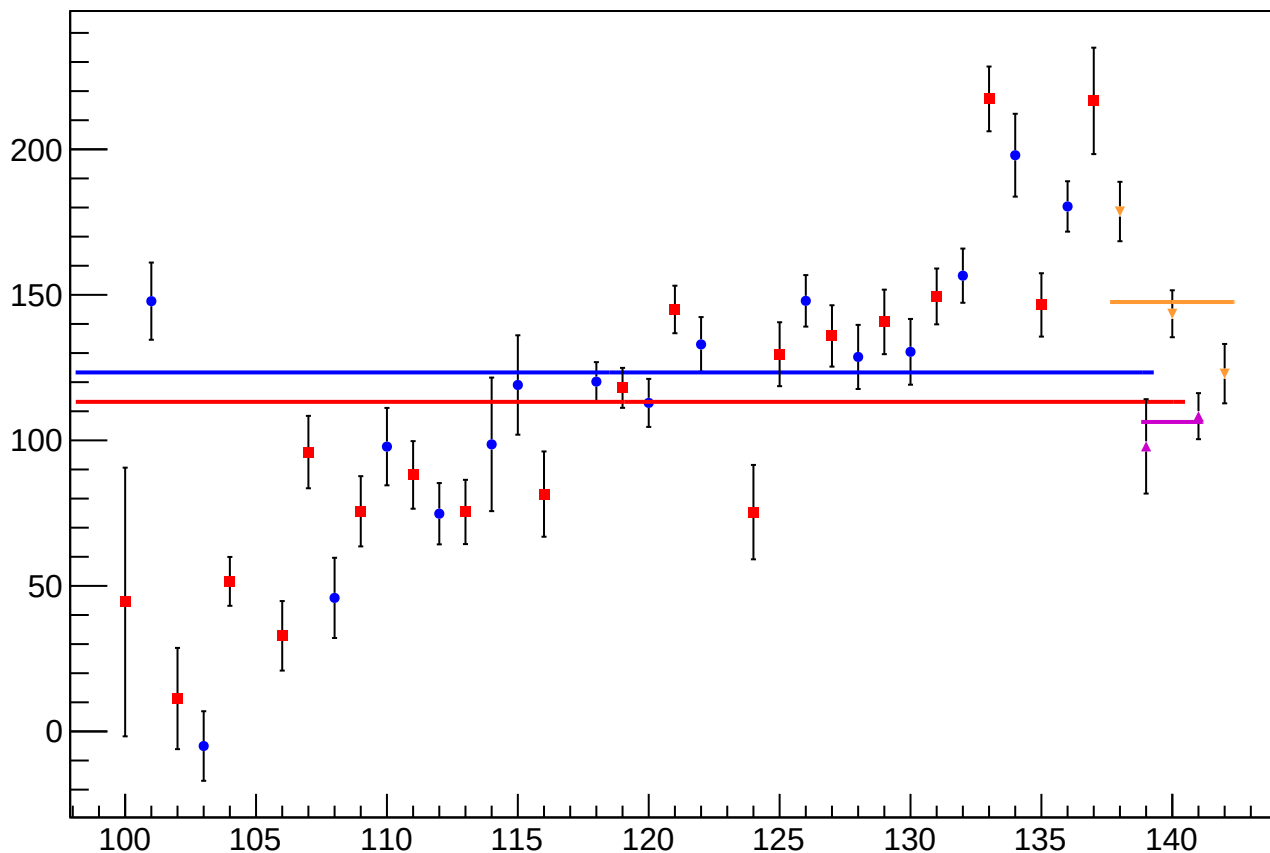
Right: 490.515+/-1.729 χ^2/NDF : 7316.1/34

In: 510.545+/-2.339 χ^2/NDF : 3253.6/17

Out: 479.733+/-2.209 χ^2/NDF : 4193.4/21

All: 494.262+/-1.606 χ^2/NDF : 7538.7/39

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 123.344 $\pm$ 2.627 χ^2 /NDF: 271.4/15

Left Out: 147.539 $\pm$ 5.378 χ^2 /NDF:15.4/2

Right Out: 113.235 $\pm$ 2.545 χ^2 /NDF: 345.8/18

Left In: 106.323 $\pm$ 7.110 χ^2 /NDF:0.3/1

Left: 132.539 $\pm$ 4.289 χ^2 /NDF: 37.1/4

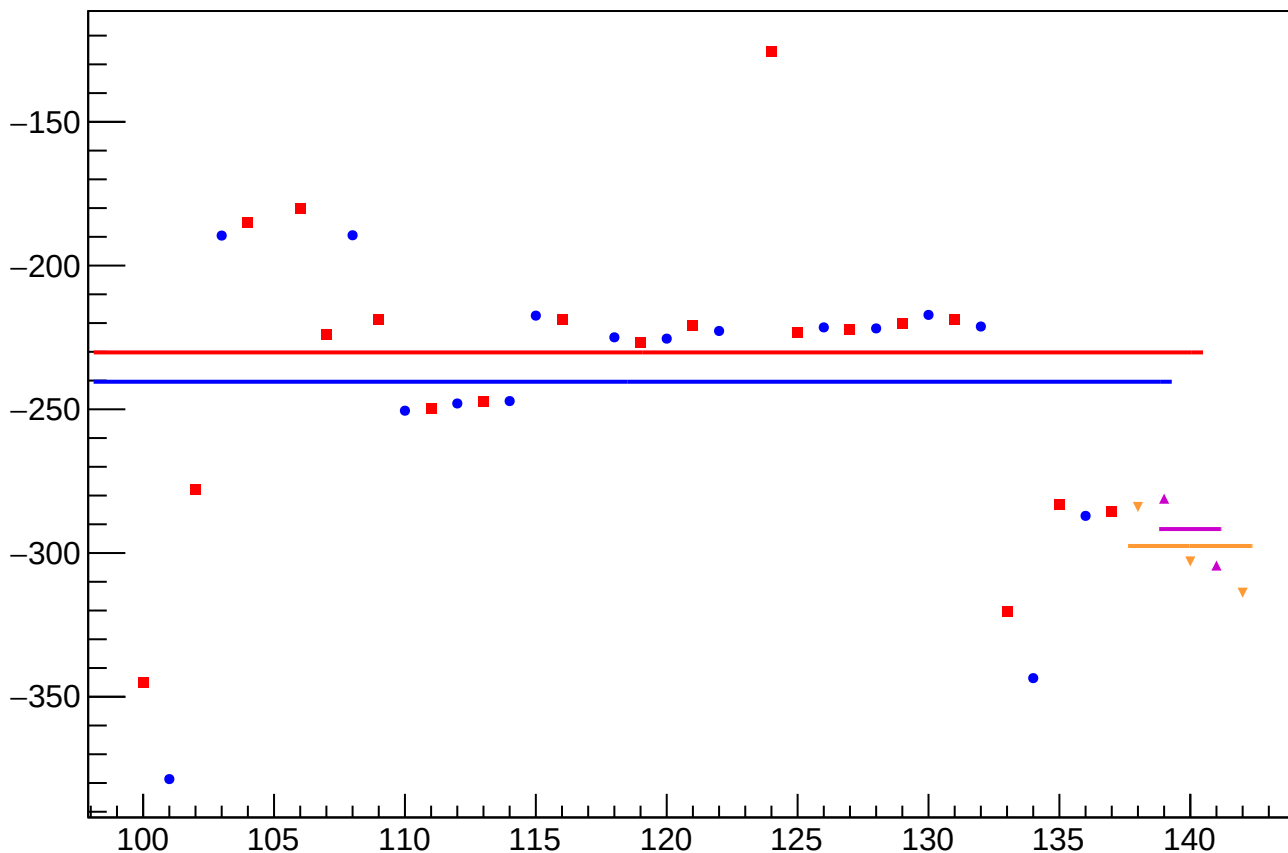
Right: 118.129 $\pm$ 1.828 χ^2 /NDF: 624.8/34

In: 121.299 $\pm$ 2.464 χ^2 /NDF:276.7/17

Out: 119.511 $\pm$ 2.300 χ^2 /NDF:394.3/21

All: 120.343 $\pm$ 1.682 χ^2 /NDF: 671.4/39

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -240.411+/-0.151 χ^2/NDF : 134152.1/15

Left Out: -297.548+/-0.240 χ^2/NDF :2340.8/2

Right Out: -230.207+/-0.146 χ^2/NDF : 83431.4/18

Left In: -291.654+/-0.258 χ^2/NDF :2010.9/1

Left: -294.821+/-0.176 χ^2/NDF : 4631.5/4

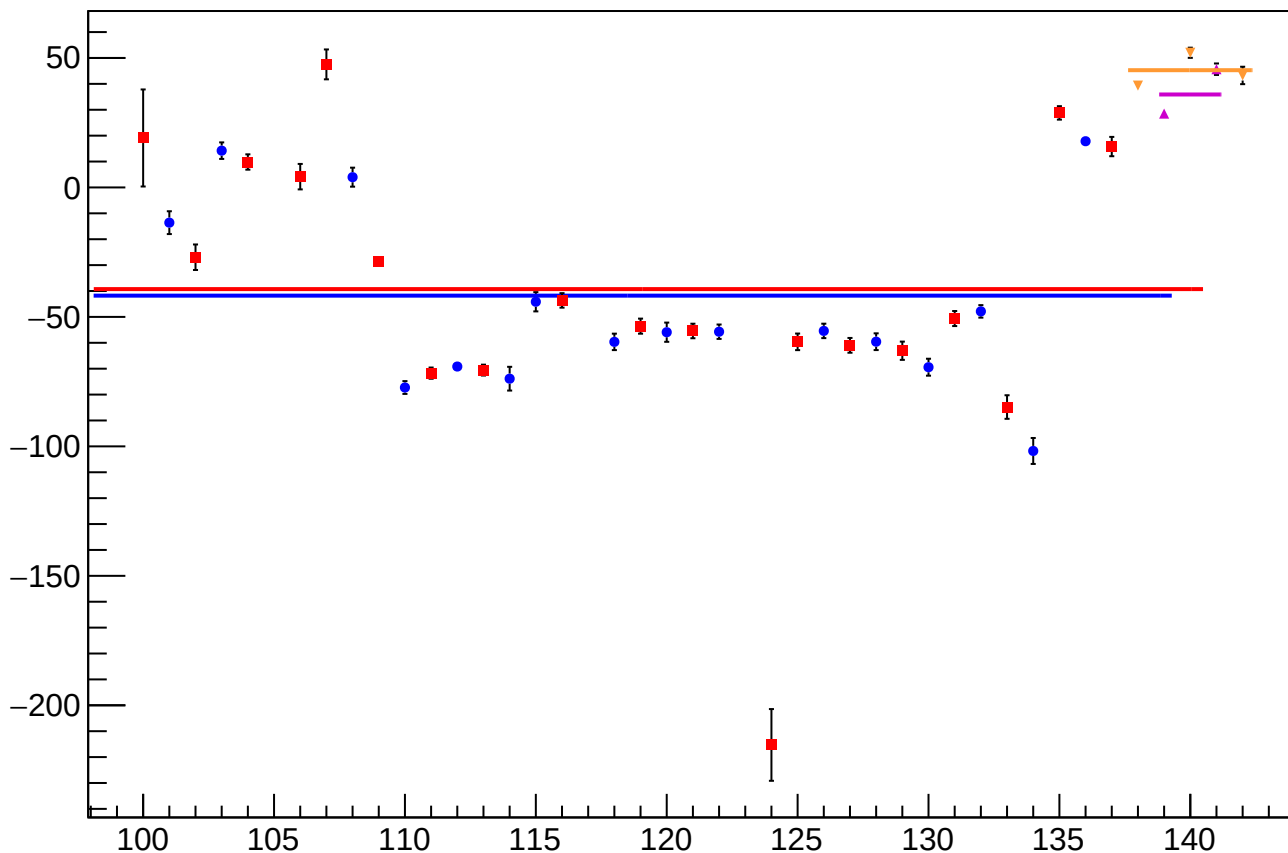
Right: -235.167+/-0.105 χ^2/NDF : 219942.1/34

In: -253.416+/-0.130 χ^2/NDF :165540.5/17

Out: -248.524+/-0.125 χ^2/NDF :143247.7/21

All: -250.872+/-0.090 χ^2/NDF : 309523.6/39

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -41.788 ± 0.723 $\chi^2/\text{NDF}: 2405.5/15$

Left Out: 45.280 ± 1.280 $\chi^2/\text{NDF}: 21.5/2$

Right Out: -39.263 ± 0.680 $\chi^2/\text{NDF}: 2478.3/18$

Left In: 35.899 ± 1.453 $\chi^2/\text{NDF}: 34.1/1$

Left: 41.182 ± 0.960 $\chi^2/\text{NDF}: 79.1/4$

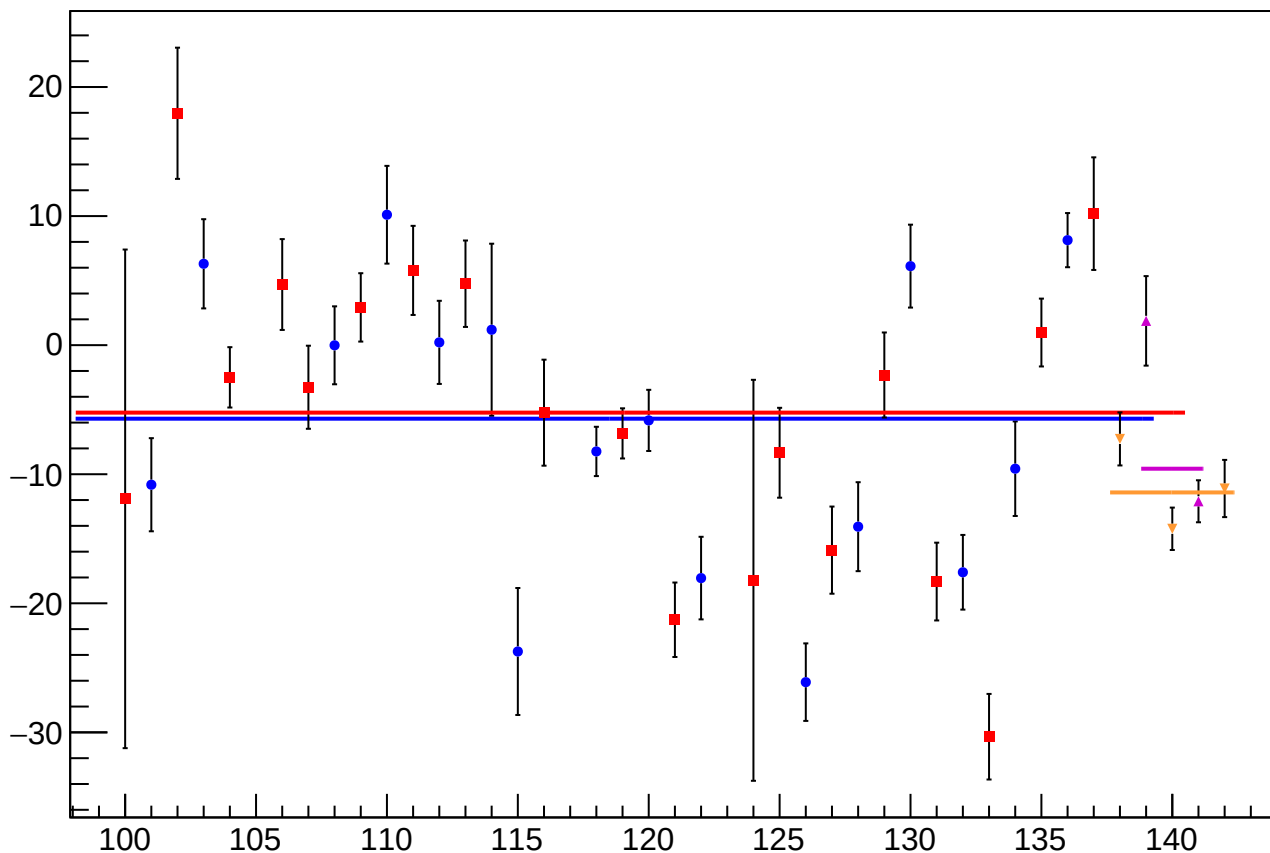
Right: -40.447 ± 0.495 $\chi^2/\text{NDF}: 4890.2/34$

In: -26.364 ± 0.647 $\chi^2/\text{NDF}: 4731.1/17$

Out: -20.661 ± 0.600 $\chi^2/\text{NDF}: 5904.4/21$

All: -23.297 ± 0.440 $\chi^2/\text{NDF}: 10677.2/39$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.697 ± 0.753 χ^2/NDF : 196.7/15

Left Out: -11.411 ± 1.110 χ^2/NDF : 7.0/2

Right Out: -5.227 ± 0.740 χ^2/NDF : 197.3/18

Left In: -9.573 ± 1.473 χ^2/NDF : 13.3/1

Left: -10.746 ± 0.887 χ^2/NDF : 21.3/4

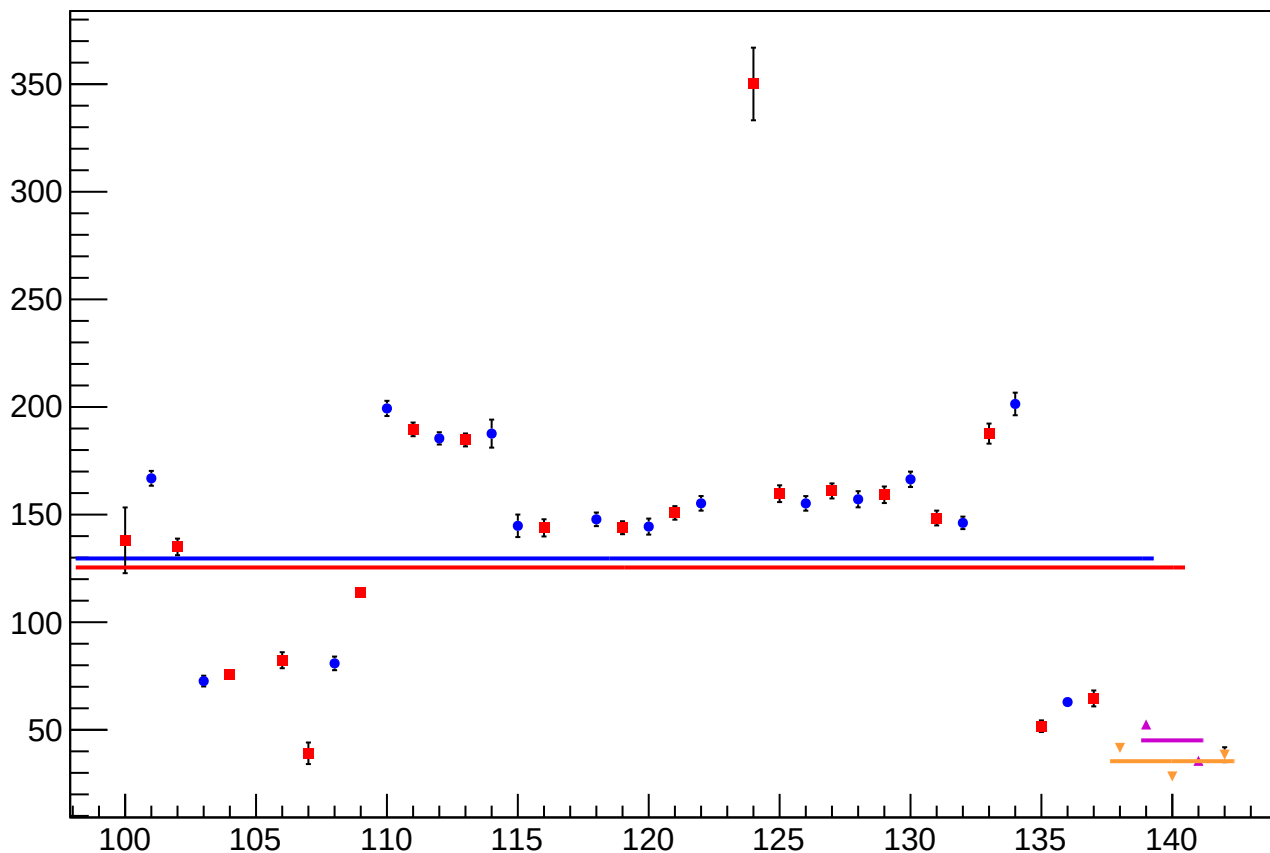
Right: -5.458 ± 0.528 χ^2/NDF : 394.3/34

In: -6.500 ± 0.671 χ^2/NDF : 215.5/17

Out: -7.130 ± 0.616 χ^2/NDF : 225.9/21

All: -6.842 ± 0.453 χ^2/NDF : 441.9/39

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 129.621+/-0.801 χ^2/NDF : 3624.4/15

Left Out: 35.426+/-1.325 χ^2/NDF :22.2/2

Right Out: 125.435+/-0.790 χ^2/NDF : 3503.2/18

Left In: 45.095+/-1.504 χ^2/NDF :31.0/1

Left: 39.651+/-0.994 χ^2/NDF : 76.5/4

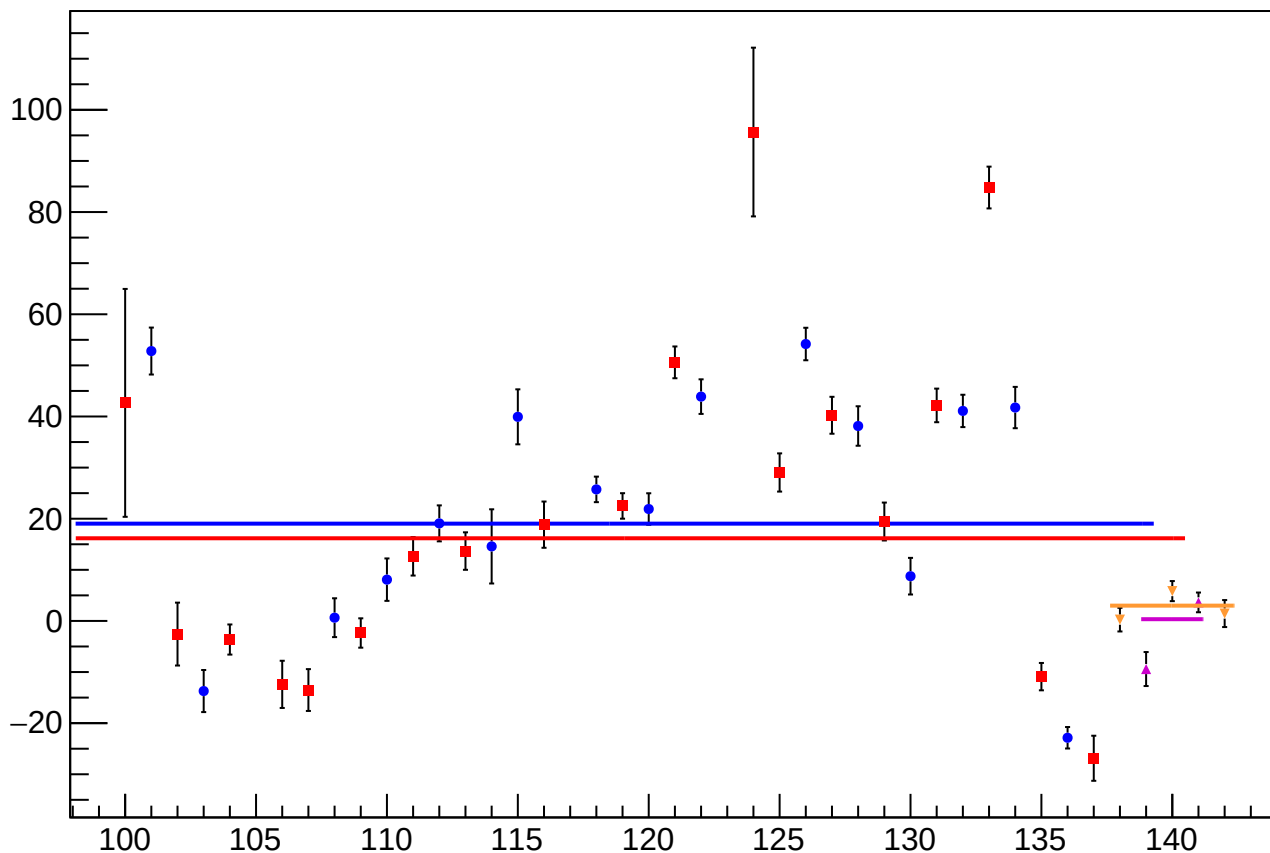
Right: 127.500+/-0.562 χ^2/NDF : 7141.4/34

In: 110.960+/-0.707 χ^2/NDF :6116.2/17

Out: 101.839+/-0.678 χ^2/NDF :6930.1/21

All: 106.213+/-0.489 χ^2/NDF : 13133.0/39

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 19.035 ± 0.860 $\chi^2/\text{NDF}: 858.1/15$

Left Out: 2.993 ± 1.302 $\chi^2/\text{NDF}: 3.8/2$

Right Out: 16.173 ± 0.846 $\chi^2/\text{NDF}: 941.3/18$

Left In: 0.341 ± 1.669 $\chi^2/\text{NDF}: 11.5/1$

Left: 1.989 ± 1.027 $\chi^2/\text{NDF}: 16.9/4$

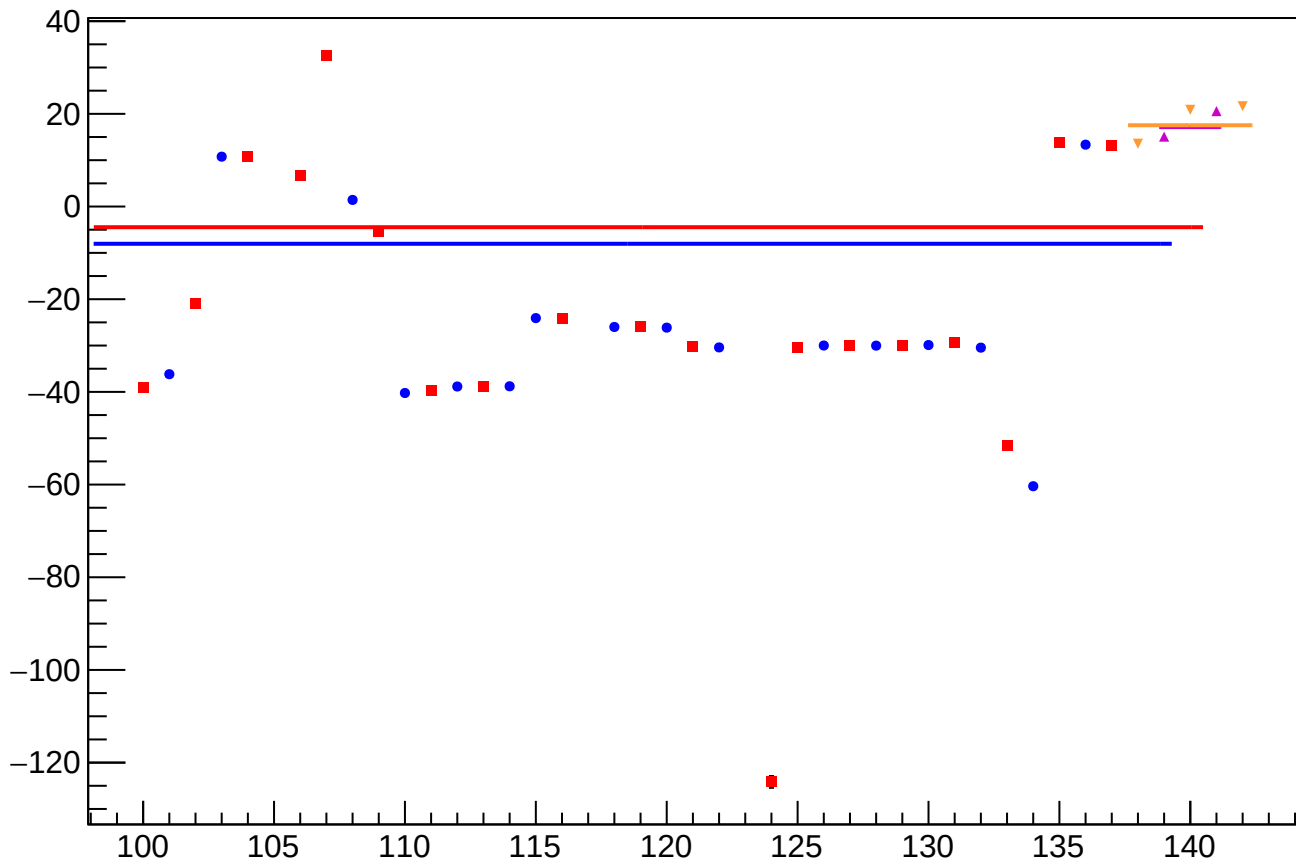
Right: 17.581 ± 0.603 $\chi^2/\text{NDF}: 1804.9/34$

In: 15.115 ± 0.764 $\chi^2/\text{NDF}: 968.7/17$

Out: 12.262 ± 0.709 $\chi^2/\text{NDF}: 1017.1/21$

All: 13.582 ± 0.520 $\chi^2/\text{NDF}: 1993.3/39$

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -8.038 ± 0.046 $\chi^2/\text{NDF}: 267883.6/15$

Left Out: 17.540 ± 0.055 $\chi^2/\text{NDF}: 4698.5/2$

Right Out: -4.461 ± 0.047 $\chi^2/\text{NDF}: 228422.2/18$

Left In: 17.146 ± 0.057 $\chi^2/\text{NDF}: 2211.0/1$

Left: 17.349 ± 0.039 $\chi^2/\text{NDF}: 6934.4/4$

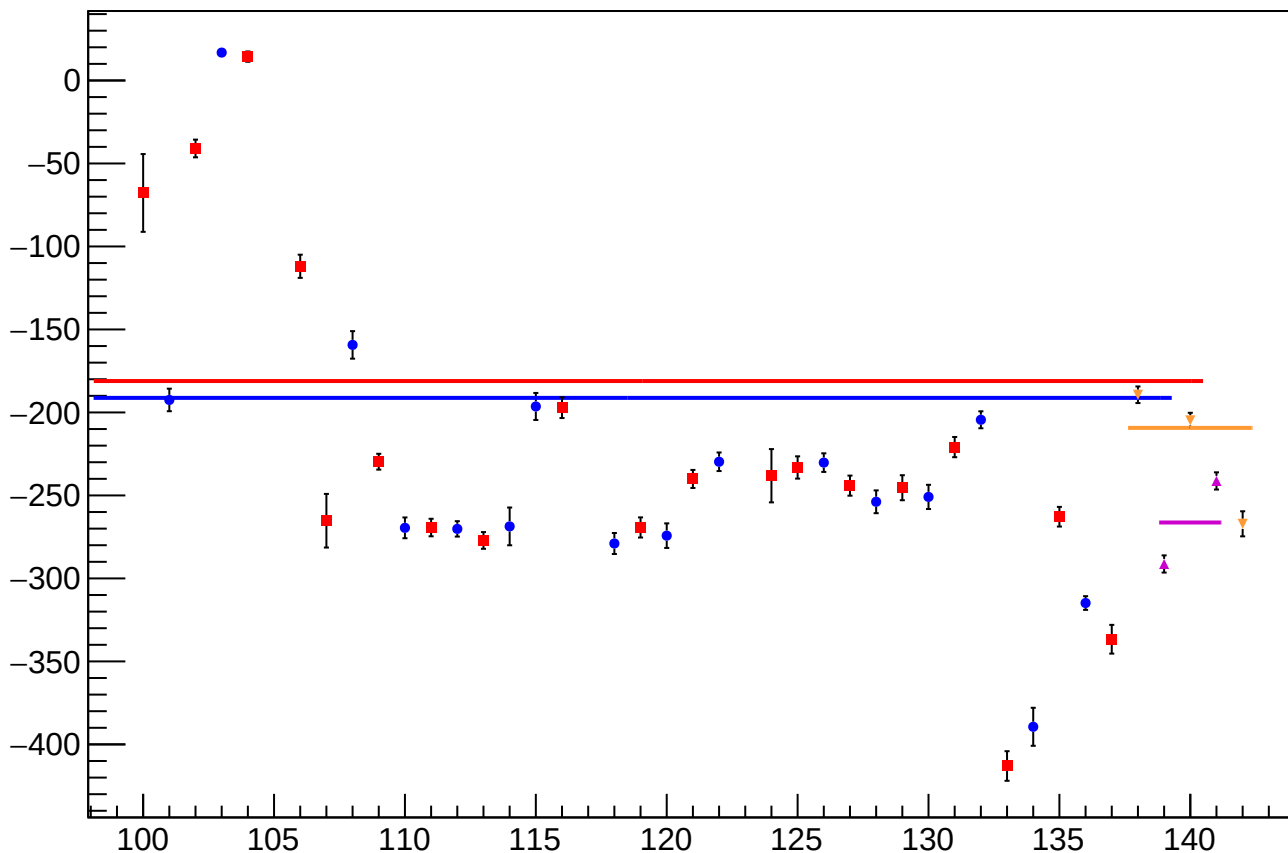
Right: -6.287 ± 0.033 $\chi^2/\text{NDF}: 499287.4/34$

In: 1.934 ± 0.036 $\chi^2/\text{NDF}: 389663.9/17$

Out: 4.781 ± 0.036 $\chi^2/\text{NDF}: 325955.5/21$

All: 3.356 ± 0.025 $\chi^2/\text{NDF}: 718811.6/39$

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -191.225 ± 1.419 χ^2/NDF : 7224.7/15

Left Out: -209.302 ± 3.084 χ^2/NDF : 75.4/2

Right Out: -181.080 ± 1.383 χ^2/NDF : 7374.0/18

Left In: -266.311 ± 3.664 χ^2/NDF : 46.6/1

Left: -232.941 ± 2.359 χ^2/NDF : 263.8/4

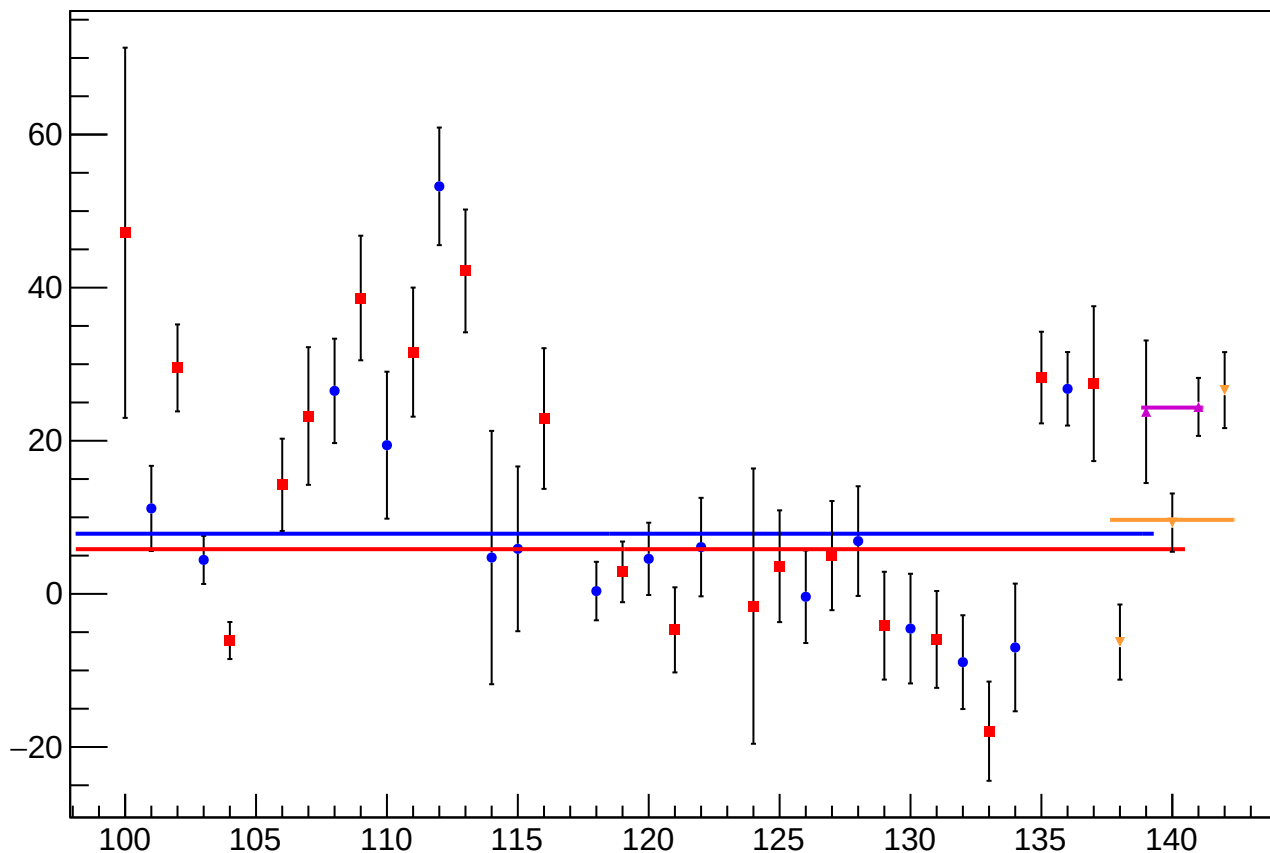
Right: -186.022 ± 0.990 χ^2/NDF : 14624.9/34

In: -201.013 ± 1.323 χ^2/NDF : 7636.5/17

Out: -185.803 ± 1.262 χ^2/NDF : 7519.2/21

All: -193.048 ± 0.913 χ^2/NDF : 15224.9/39

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.859 ± 1.438 $\chi^2/\text{NDF}: 80.9/15$

Left Out: 9.670 ± 2.573 $\chi^2/\text{NDF}: 22.2/2$

Right Out: 5.839 ± 1.355 $\chi^2/\text{NDF}: 141.9/18$

Left In: 24.334 ± 3.509 $\chi^2/\text{NDF}: 0.0/1$

Left: 14.798 ± 2.075 $\chi^2/\text{NDF}: 33.6/4$

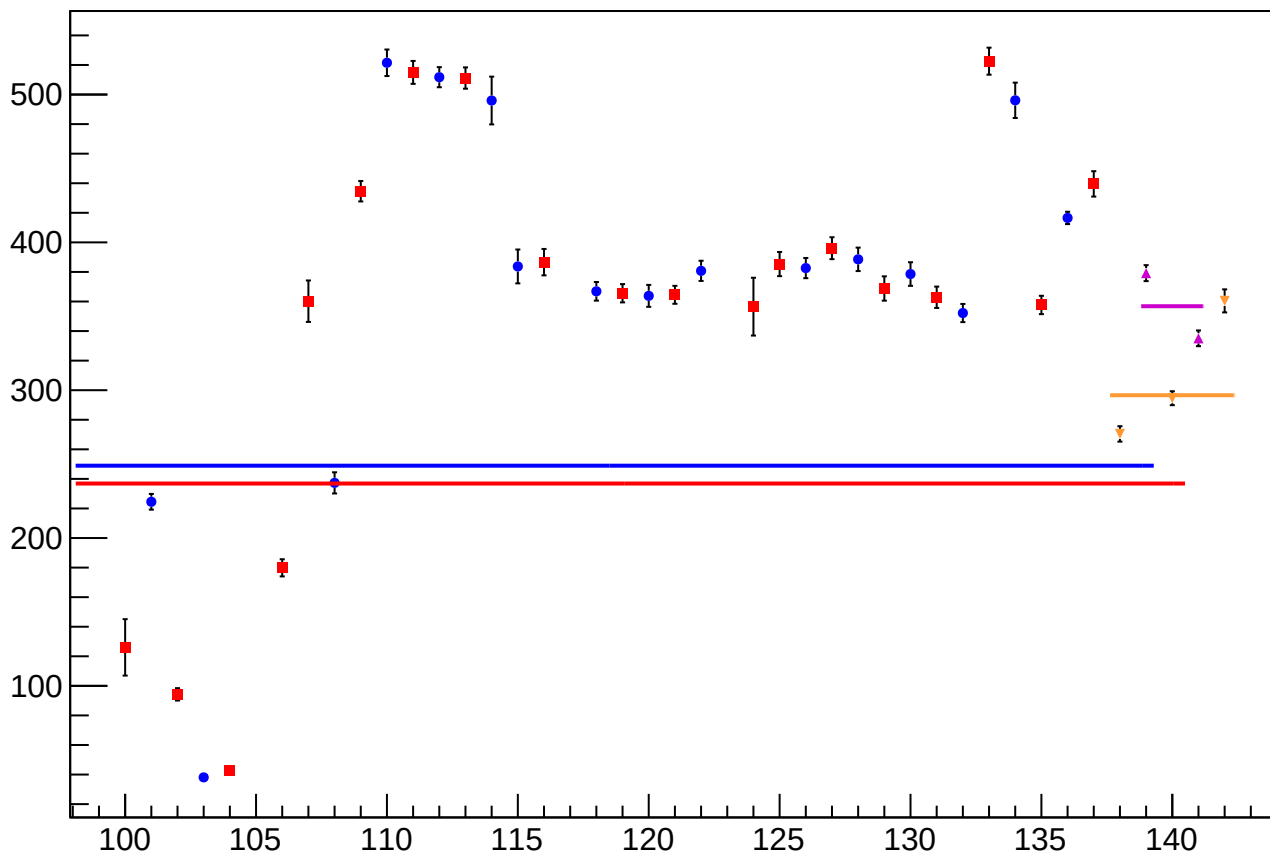
Right: 6.789 ± 0.986 $\chi^2/\text{NDF}: 223.8/34$

In: 10.228 ± 1.331 $\chi^2/\text{NDF}: 99.8/17$

Out: 6.671 ± 1.199 $\chi^2/\text{NDF}: 165.8/21$

All: 8.265 ± 0.891 $\chi^2/\text{NDF}: 269.6/39$

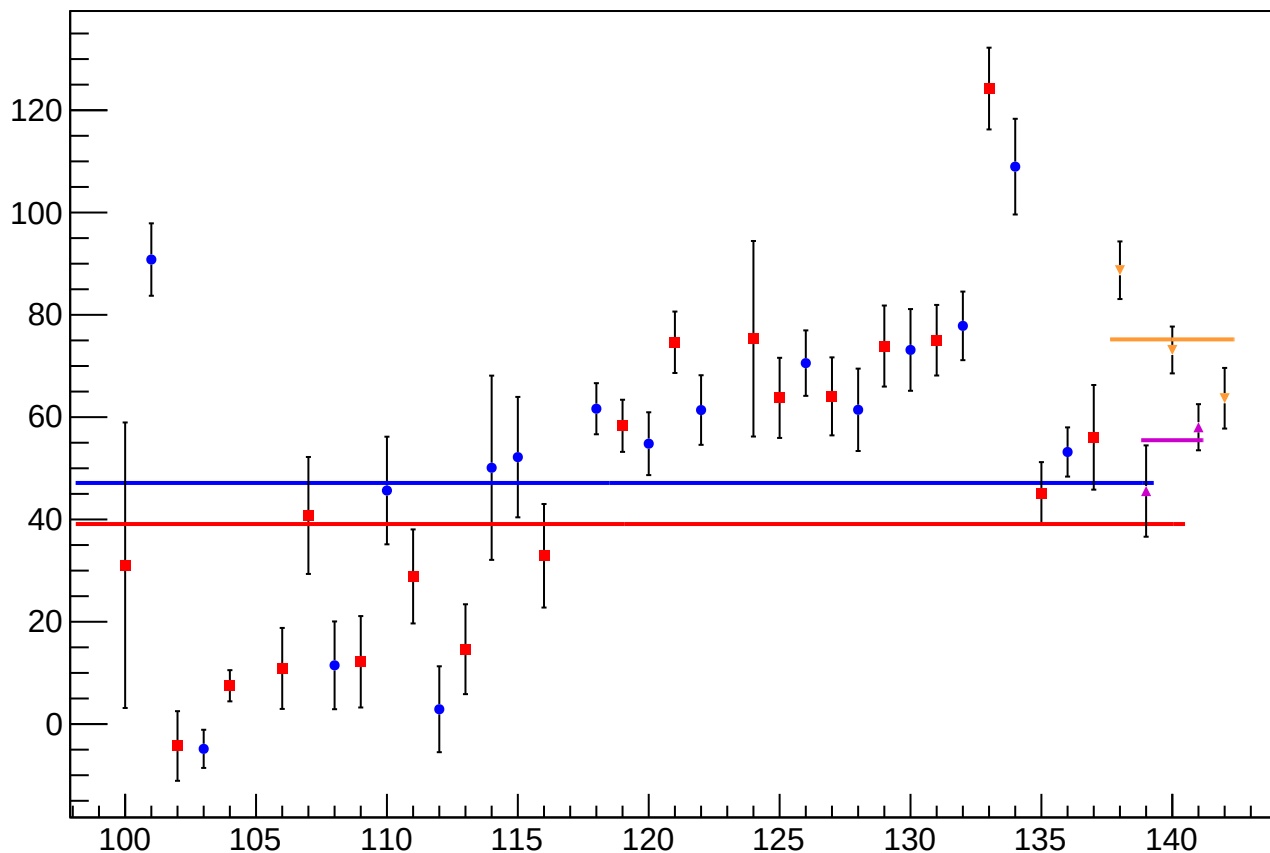
reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 248.932+/-1.422 χ^2/NDF : 15302.2/15
 Left Out: 296.589+/-3.190 χ^2/NDF : 92.5/2
 Right Out: 236.871+/-1.407 χ^2/NDF : 15657.3/18
 Left In: 356.805+/-3.789 χ^2/NDF : 33.9/1

Left: 321.565+/-2.440 χ^2/NDF : 274.2/4
 Right: 242.838+/-1.000 χ^2/NDF : 30995.9/34
 In: 262.247+/-1.331 χ^2/NDF : 16046.7/17
 Out: 246.595+/-1.287 χ^2/NDF : 16043.3/21
 All: 254.158+/-0.925 χ^2/NDF : 32161.4/39

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.137 $\pm$ 1.668 χ^2 /NDF: 385.3/15

Left Out: 75.201 $\pm$ 3.048 χ^2 /NDF:9.7/2

Right Out: 39.105 $\pm$ 1.596 χ^2 /NDF: 416.5/18

Left In: 55.493 $\pm$ 4.025 χ^2 /NDF:1.6/1

Left: 68.019 $\pm$ 2.430 χ^2 /NDF: 26.5/4

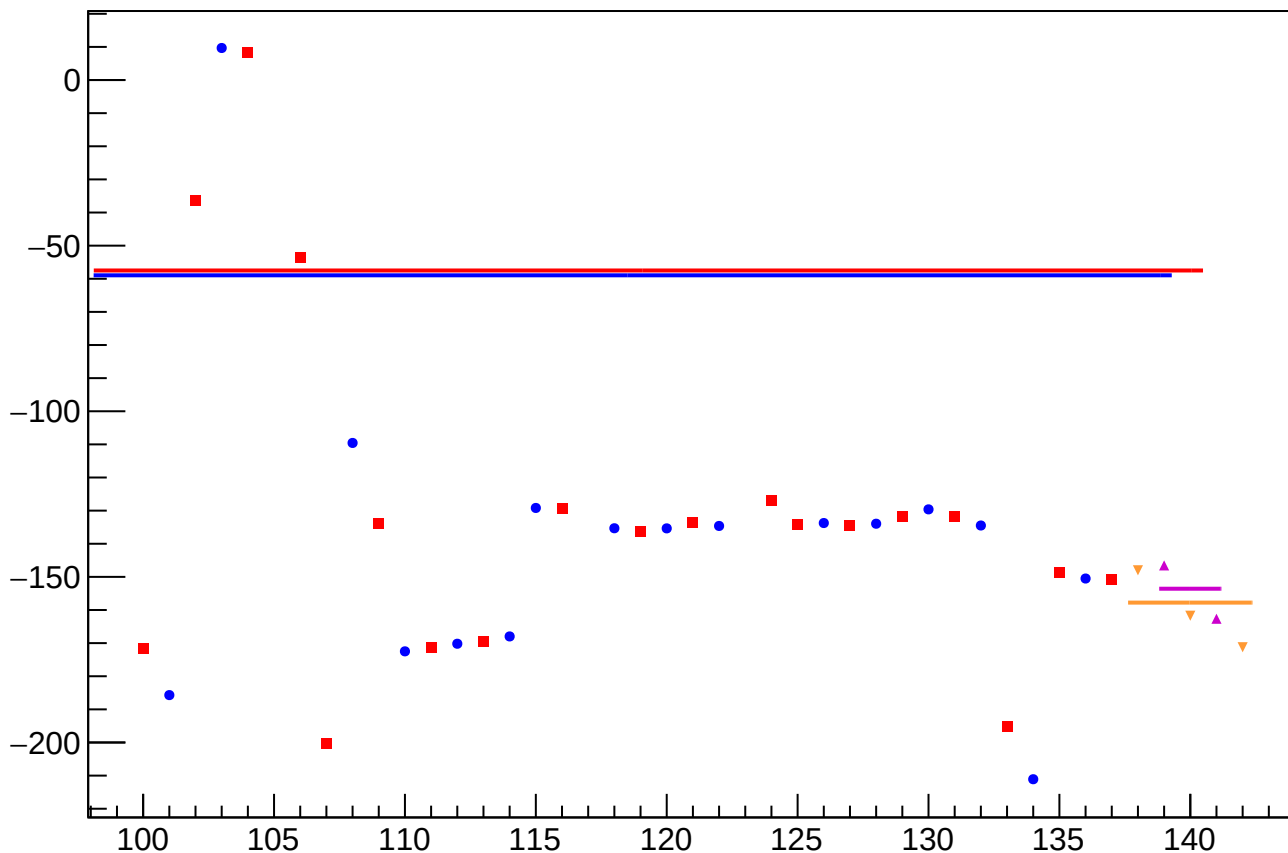
Right: 42.944 $\pm$ 1.153 χ^2 /NDF: 813.9/34

In: 48.361 $\pm$ 1.541 χ^2 /NDF:390.6/17

Out: 46.873 $\pm$ 1.414 χ^2 /NDF:536.3/21

All: 47.553 $\pm$ 1.042 χ^2 /NDF: 927.4/39

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -58.956+/-0.073 χ^2/NDF : 1227079.0/15

Left Out: -157.768+/-0.135 χ^2/NDF : 4294.0/2

Right Out: -57.497+/-0.074 χ^2/NDF : 871305.9/18

Left In: -153.577+/-0.144 χ^2/NDF : 3061.9/1

Left: -155.818+/-0.098 χ^2/NDF : 7806.6/4

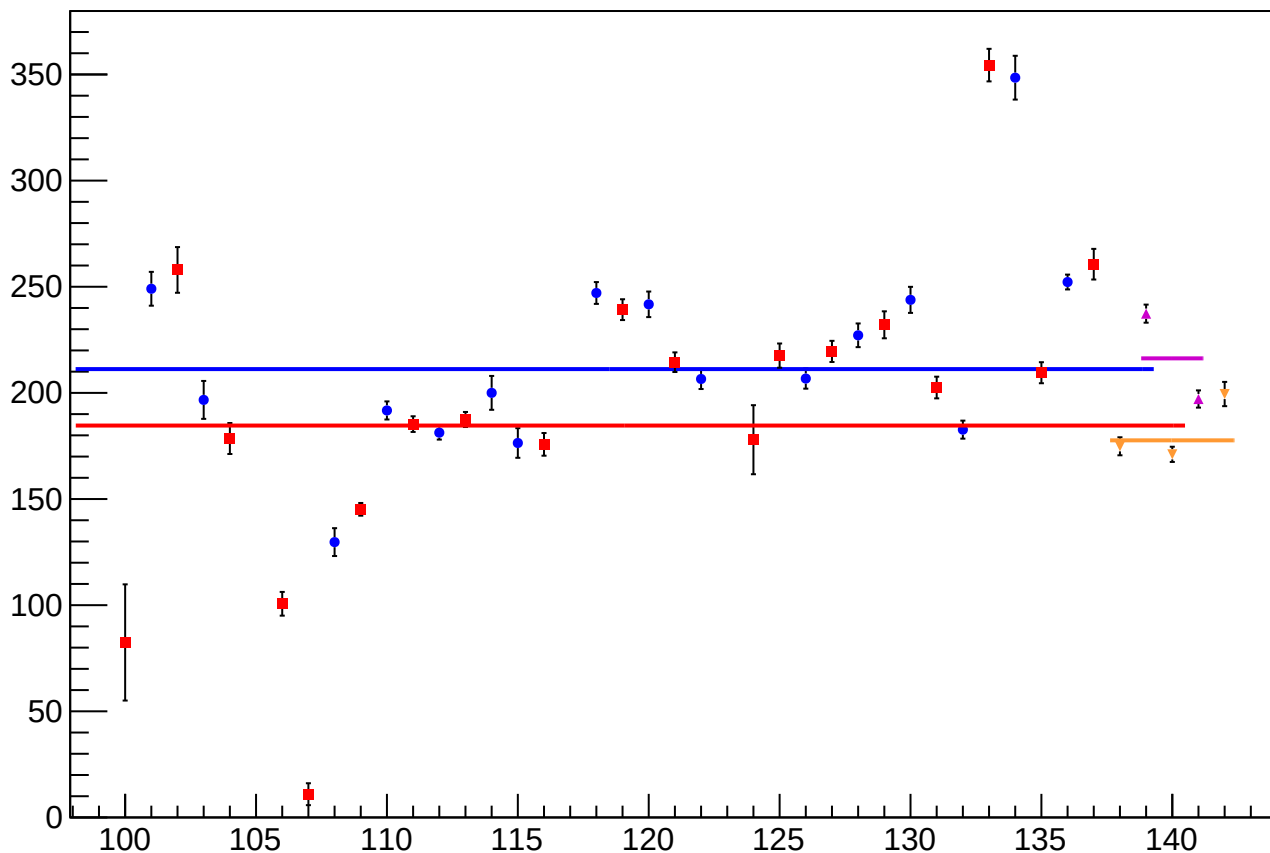
Right: -58.243+/-0.052 χ^2/NDF : 2098582.3/34

In: -78.066+/-0.065 χ^2/NDF : 1573139.3/17

Out: -80.873+/-0.065 χ^2/NDF : 1300641.8/21

All: -79.466+/-0.046 χ^2/NDF : 2874715.4/39

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 211.210 $\pm$ 1.296 χ^2 /NDF: 783.0/15

Left Out: 177.645 $\pm$ 2.469 χ^2 /NDF:18.4/2

Right Out: 184.614 $\pm$ 1.194 χ^2 /NDF: 2540.4/18

Left In: 216.264 $\pm$ 2.938 χ^2 /NDF:46.7/1

Left: 193.632 $\pm$ 1.890 χ^2 /NDF: 166.3/4

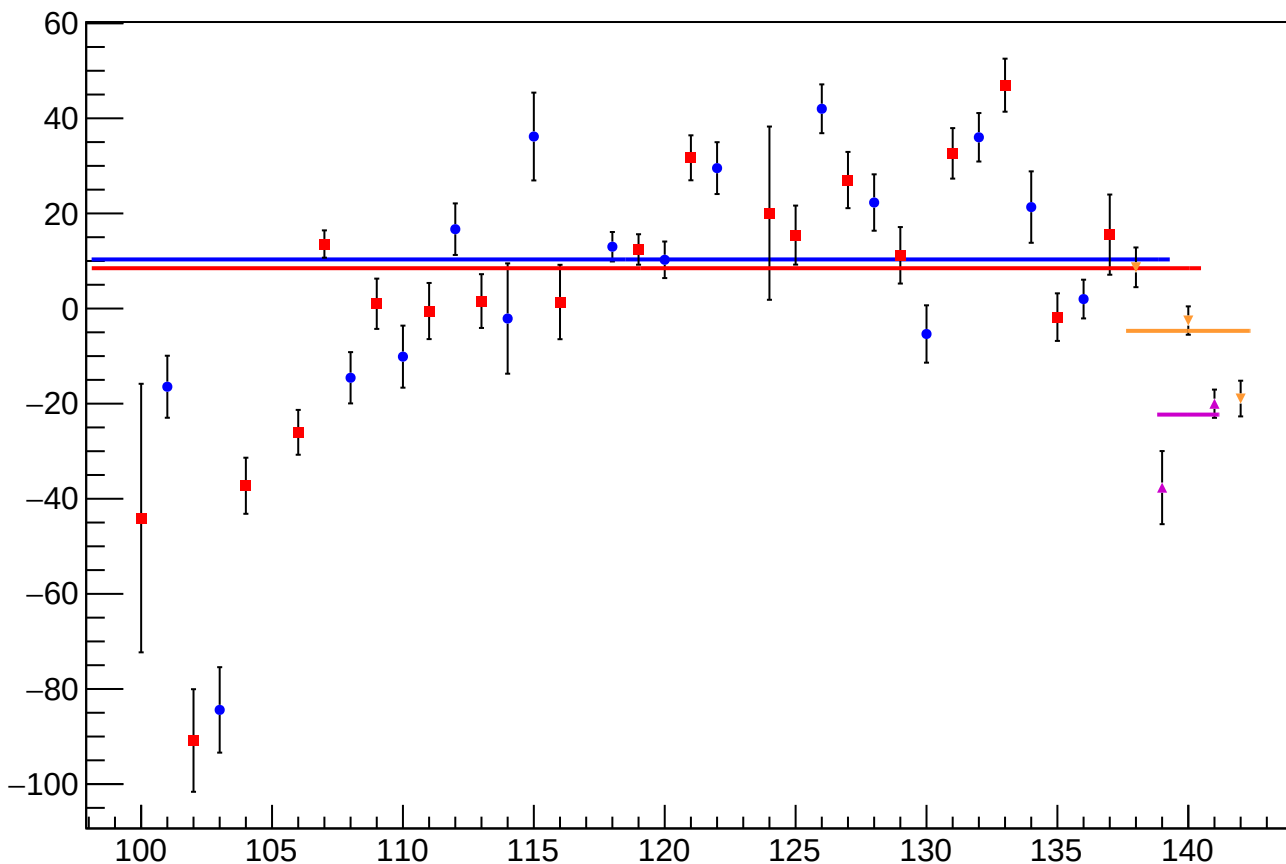
Right: 196.825 $\pm$ 0.878 χ^2 /NDF: 3551.2/34

In: 212.033 $\pm$ 1.186 χ^2 /NDF:832.2/17

Out: 183.294 $\pm$ 1.075 χ^2 /NDF:2565.2/21

All: 196.259 $\pm$ 0.796 χ^2 /NDF: 3719.9/39

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.329+/-1.333 χ^2/NDF : 263.3/15

Left Out: -4.693+/-2.038 χ^2/NDF : 25.2/2

Right Out: 8.480+/-1.225 χ^2/NDF : 322.3/18

Left In: -22.303+/-2.769 χ^2/NDF : 4.6/1

Left: -10.879+/-1.641 χ^2/NDF : 56.0/4

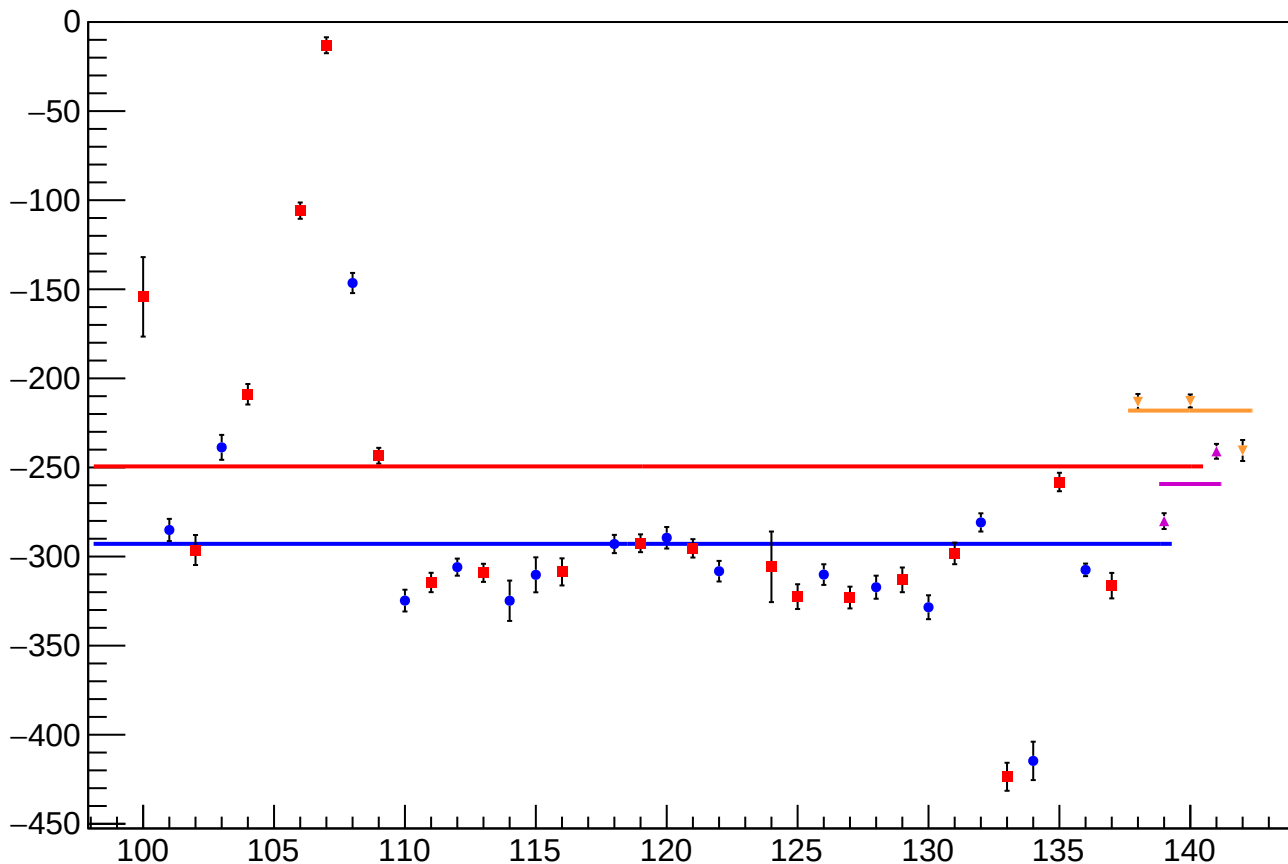
Right: 9.326+/-0.902 χ^2/NDF : 586.7/34

In: 4.193+/-1.201 χ^2/NDF : 380.6/17

Out: 4.985+/-1.050 χ^2/NDF : 378.2/21

All: 4.642+/-0.790 χ^2/NDF : 759.0/39

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -292.872 ± 1.467 χ^2/NDF : 983.5/15

Left Out: -218.080 ± 2.553 χ^2/NDF : 17.8/2

Right Out: -249.407 ± 1.369 χ^2/NDF : 5368.5/18

Left In: -259.281 ± 3.036 χ^2/NDF : 41.4/1

Left: -235.144 ± 1.954 χ^2/NDF : 167.1/4

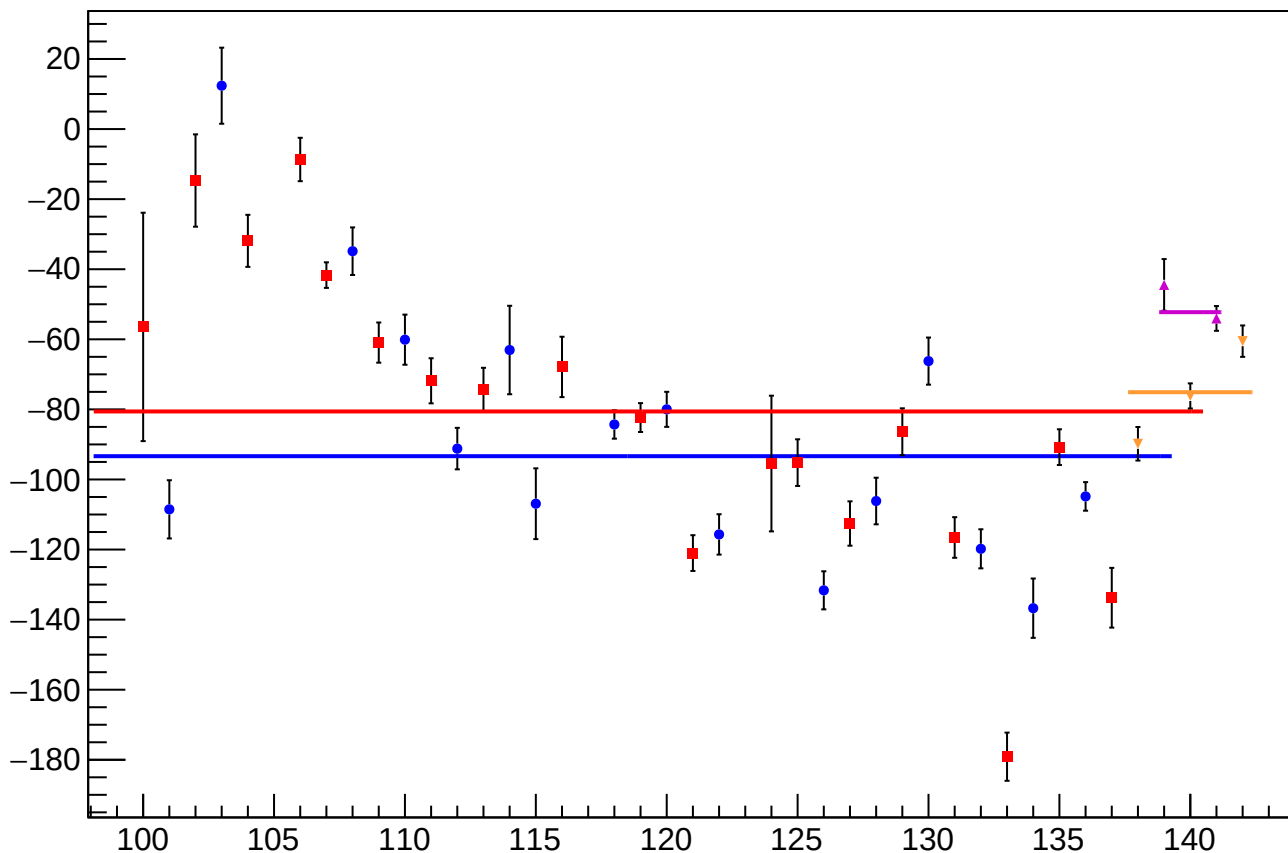
Right: -269.627 ± 1.001 χ^2/NDF : 6821.1/34

In: -286.511 ± 1.321 χ^2/NDF : 1124.1/17

Out: -242.413 ± 1.206 χ^2/NDF : 5503.2/21

All: -262.460 ± 0.891 χ^2/NDF : 7234.9/39

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -93.357 $\pm$ 1.534 χ^2 /NDF: 355.3/15

Left Out: -75.098 $\pm$ 2.417 χ^2 /NDF:20.1/2

Right Out: -80.592 $\pm$ 1.424 χ^2 /NDF: 715.3/18

Left In: -52.255 $\pm$ 3.185 χ^2 /NDF:1.4/1

Left: -66.753 $\pm$ 1.925 χ^2 /NDF: 54.1/4

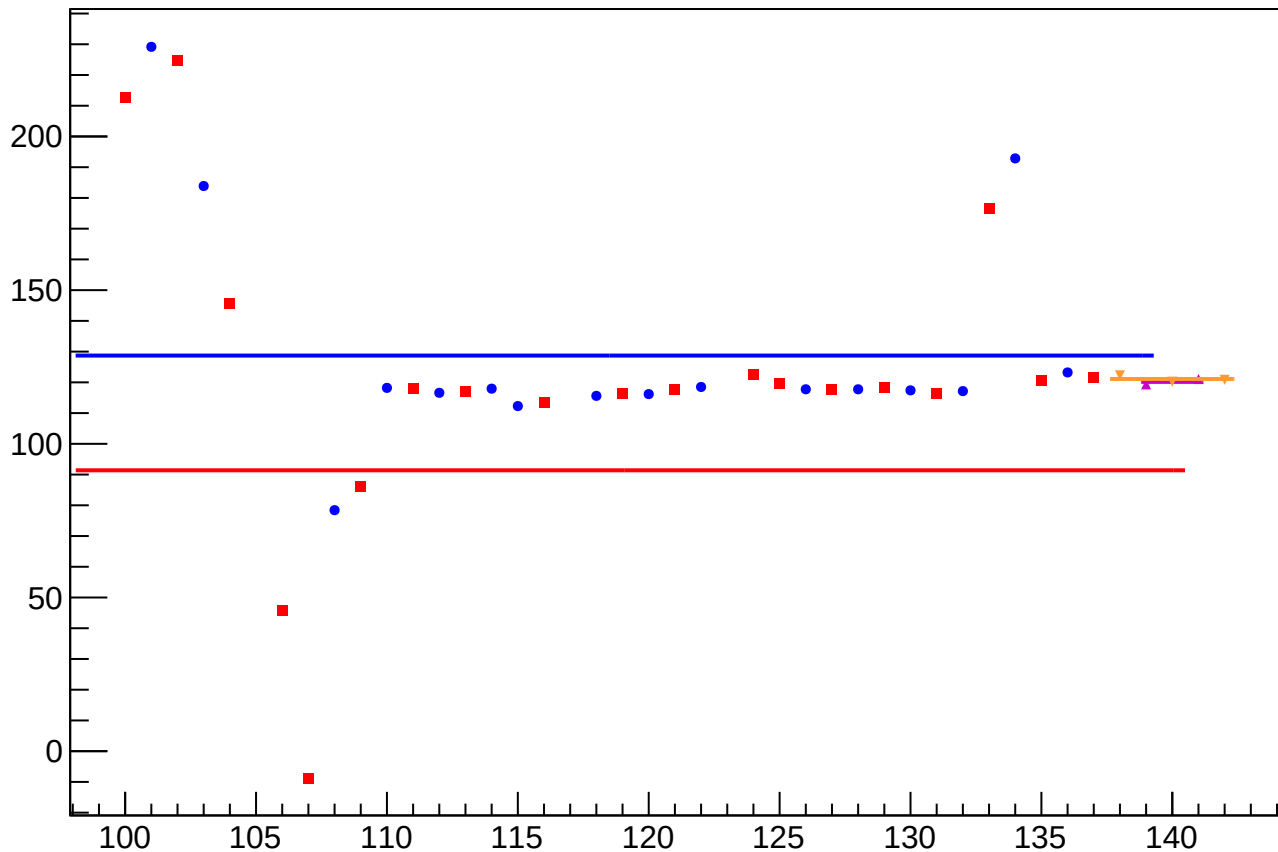
Right: -86.499 $\pm$ 1.044 χ^2 /NDF: 1107.8/34

In: -85.616 $\pm$ 1.382 χ^2 /NDF:491.8/17

Out: -79.176 $\pm$ 1.227 χ^2 /NDF:739.3/21

All: -82.013 $\pm$ 0.918 χ^2 /NDF: 1243.3/39

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 128.715 $\pm$ 0.089 χ^2 /NDF: 183522.8/15

Left Out: 121.100 $\pm$ 0.108 χ^2 /NDF: 74.3/2

Right Out: 91.385 $\pm$ 0.079 χ^2 /NDF: 604912.4/18

Left In: 120.149 $\pm$ 0.116 χ^2 /NDF: 56.4/1

Left: 120.660 $\pm$ 0.079 χ^2 /NDF: 166.6/4

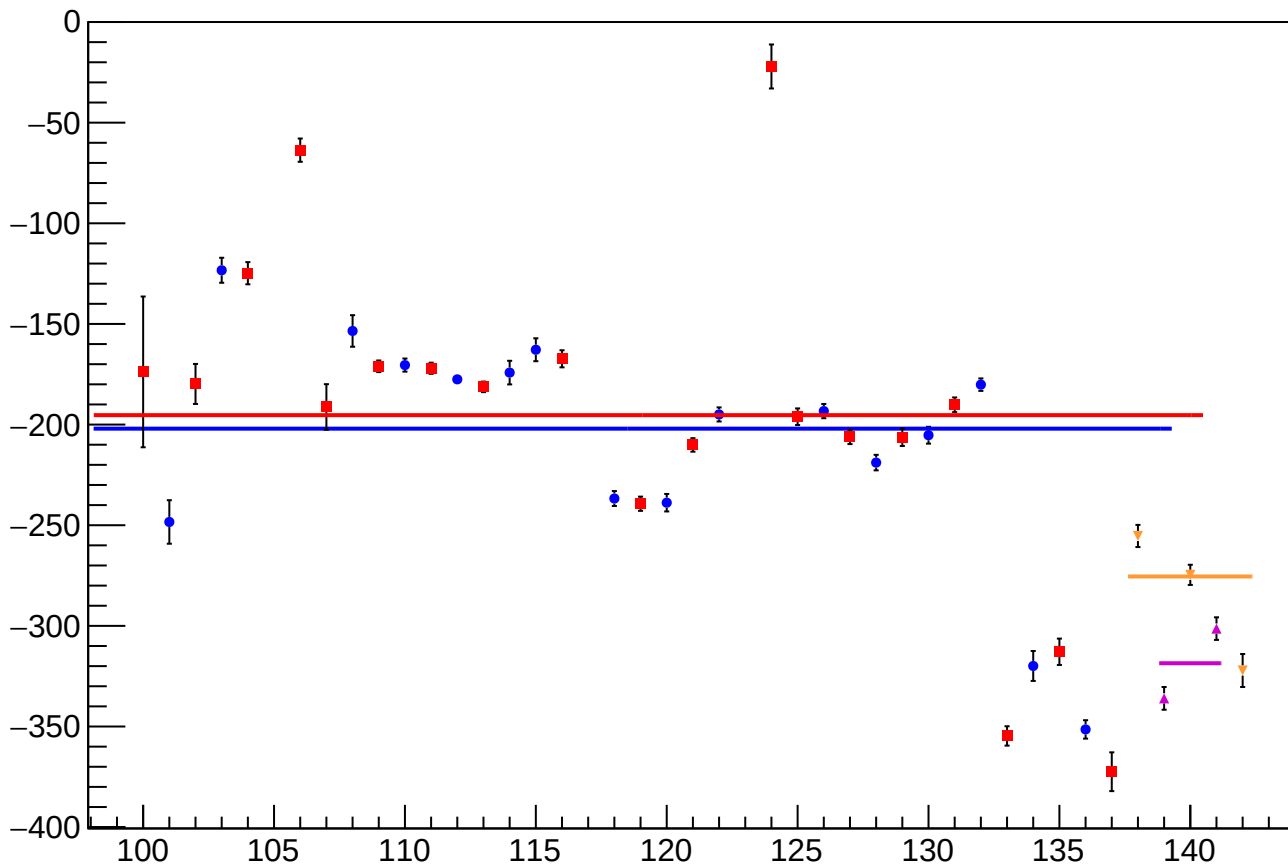
Right: 107.821 $\pm$ 0.059 χ^2 /NDF: 886599.9/34

In: 125.544 $\pm$ 0.071 χ^2 /NDF: 186997.8/17

Out: 101.755 $\pm$ 0.064 χ^2 /NDF: 654288.6/21

All: 112.424 $\pm$ 0.047 χ^2 /NDF: 903655.8/39

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -202.020+/-1.024 χ^2/NDF : 2040.4/15

Left Out: -275.460+/-3.376 χ^2/NDF :45.9/2

Right Out: -195.311+/-0.974 χ^2/NDF : 3100.7/18

Left In: -318.568+/-3.979 χ^2/NDF :19.0/1

Left: -293.501+/-2.574 χ^2/NDF : 133.1/4

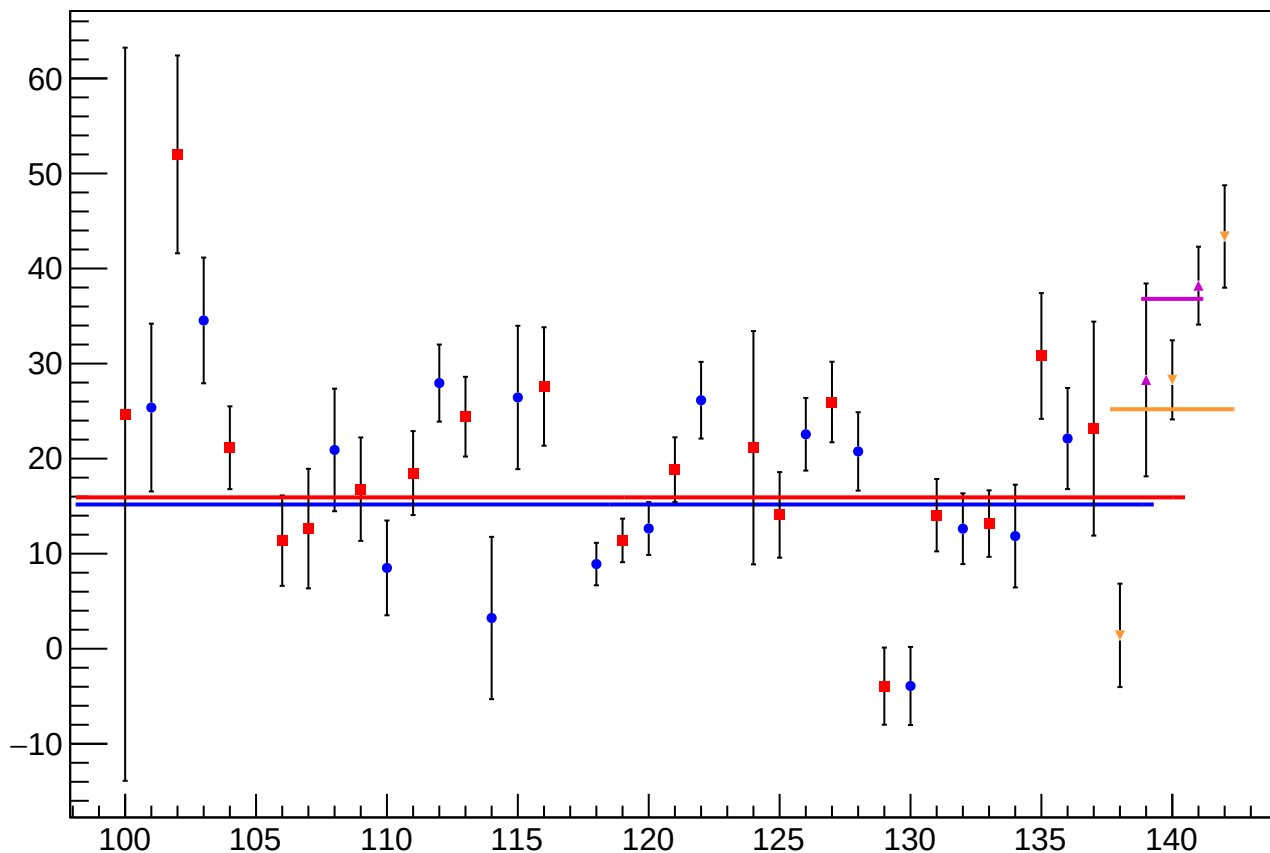
Right: -198.498+/-0.706 χ^2/NDF : 5163.6/34

In: -209.259+/-0.992 χ^2/NDF :2863.8/17

Out: -201.470+/-0.936 χ^2/NDF :3666.8/21

All: -205.139+/-0.681 χ^2/NDF : 6563.3/39

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.175 $\pm$ 1.048 χ^2 /NDF: 72.3/15

Left Out: 25.198 $\pm$ 2.817 χ^2 /NDF:31.1/2

Right Out: 15.925 $\pm$ 1.037 χ^2 /NDF: 63.5/18

Left In: 36.805 $\pm$ 3.800 χ^2 /NDF:0.8/1

Left: 29.314 $\pm$ 2.263 χ^2 /NDF: 37.9/4

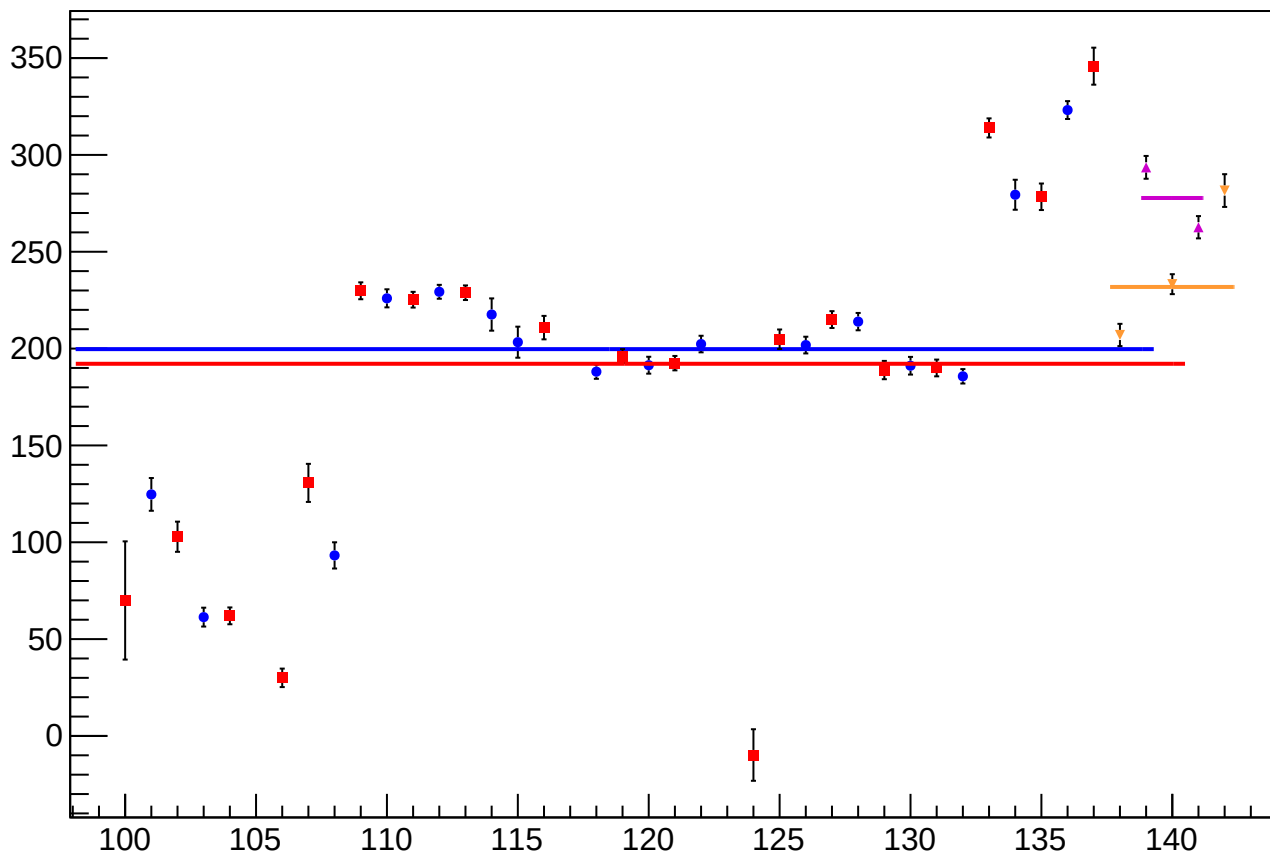
Right: 15.554 $\pm$ 0.737 χ^2 /NDF: 136.1/34

In: 16.703 $\pm$ 1.010 χ^2 /NDF:103.3/17

Out: 17.032 $\pm$ 0.973 χ^2 /NDF:104.2/21

All: 16.874 $\pm$ 0.701 χ^2 /NDF: 207.5/39

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 199.722 $\pm$ 1.196 χ^2 /NDF: 2101.6/15

Left Out: 231.824 $\pm$ 3.492 χ^2 /NDF: 53.4/2

Right Out: 192.156 $\pm$ 1.150 χ^2 /NDF: 3777.1/18

Left In: 277.757 $\pm$ 4.115 χ^2 /NDF: 14.1/1

Left: 251.052 $\pm$ 2.663 χ^2 /NDF: 139.9/4

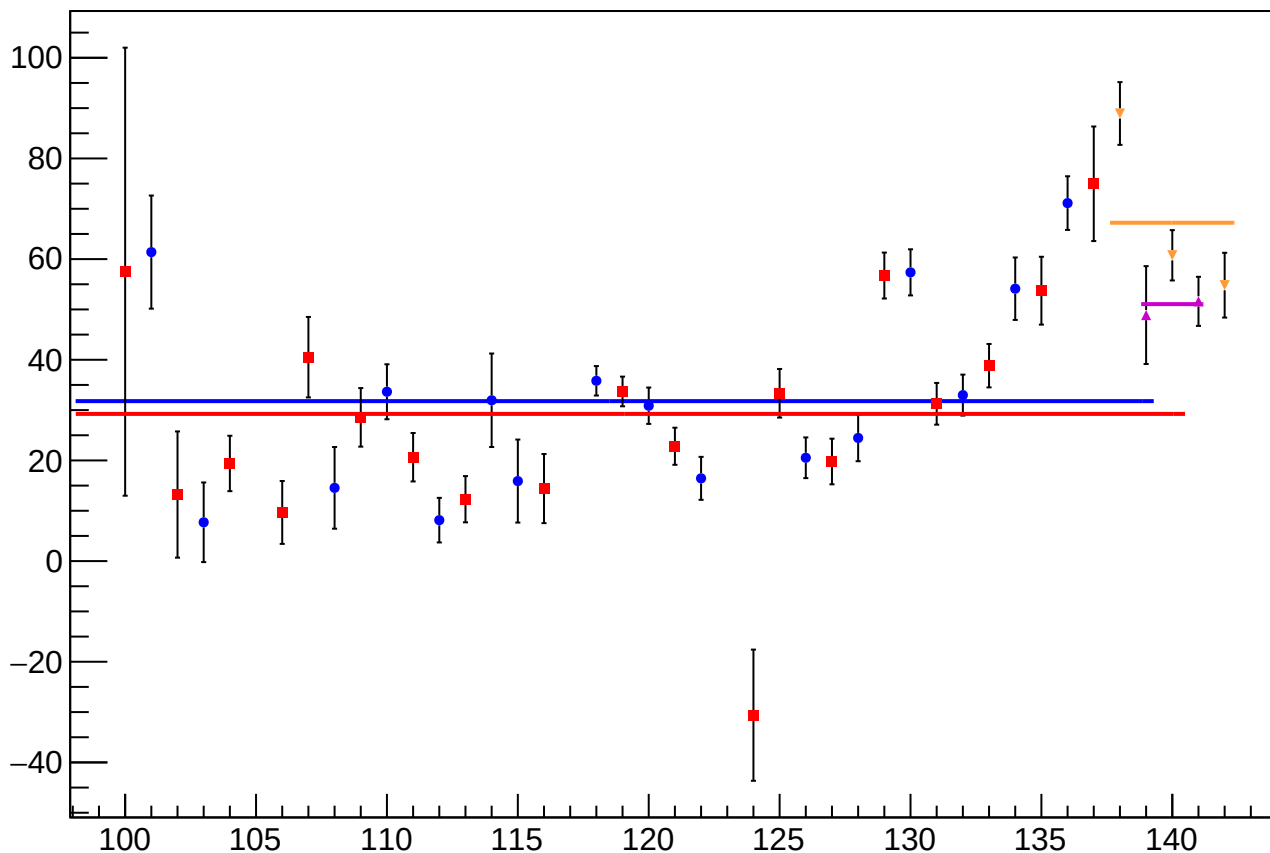
Right: 195.793 $\pm$ 0.829 χ^2 /NDF: 5899.5/34

In: 205.797 $\pm$ 1.148 χ^2 /NDF: 2447.3/17

Out: 196.040 $\pm$ 1.093 χ^2 /NDF: 3946.9/21

All: 200.677 $\pm$ 0.792 χ^2 /NDF: 6432.1/39

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.782 $\pm$ 1.217 χ^2 /NDF: 177.0/15

Left Out: 67.230 $\pm$ 3.336 χ^2 /NDF:17.5/2

Right Out: 29.245 $\pm$ 1.197 χ^2 /NDF: 140.9/18

Left In: 51.058 $\pm$ 4.360 χ^2 /NDF:0.1/1

Left: 61.259 $\pm$ 2.649 χ^2 /NDF: 26.3/4

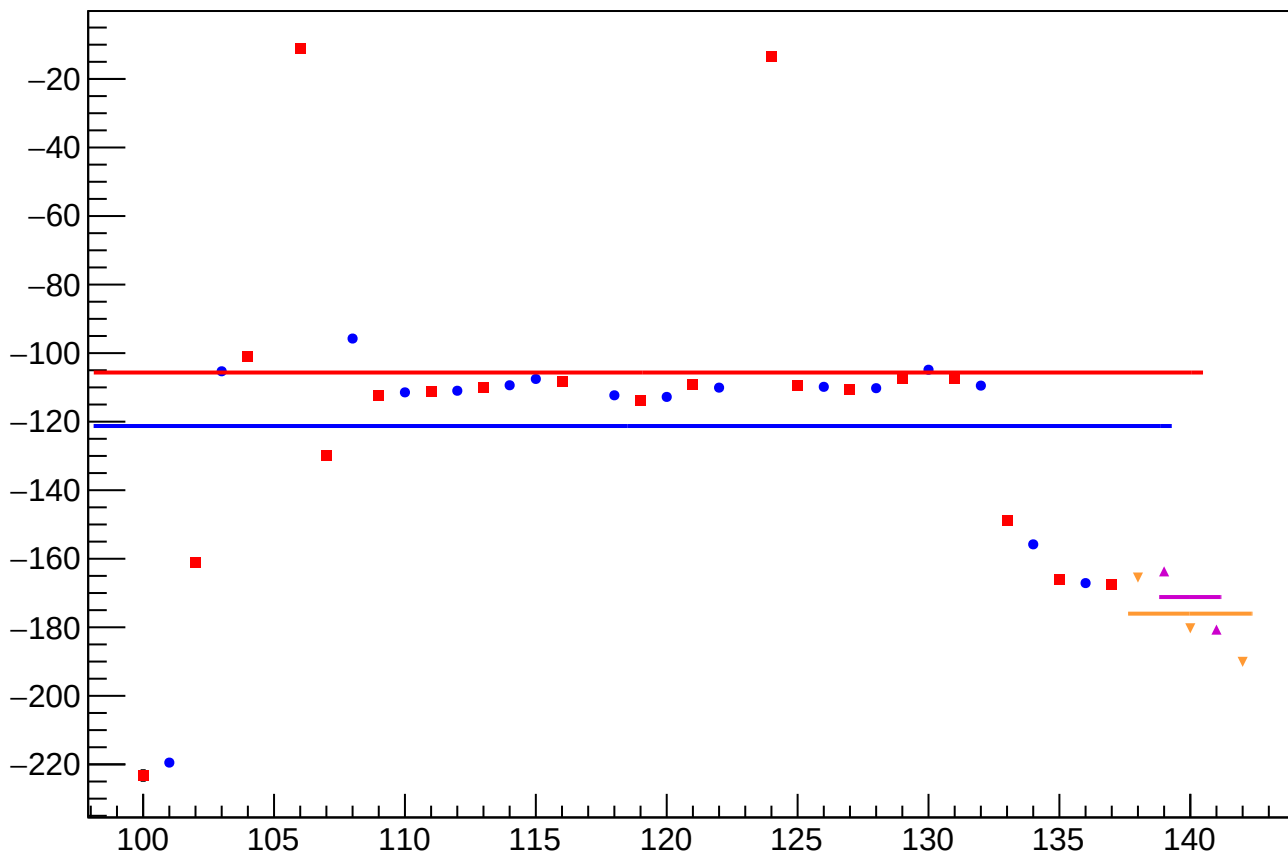
Right: 30.492 $\pm$ 0.853 χ^2 /NDF: 320.1/34

In: 33.174 $\pm$ 1.172 χ^2 /NDF:195.2/17

Out: 33.575 $\pm$ 1.126 χ^2 /NDF:273.3/21

All: 33.383 $\pm$ 0.812 χ^2 /NDF: 468.5/39

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -121.268+/-0.079 χ^2/NDF : 119398.5/15

Left Out: -176.019+/-0.147 χ^2/NDF : 4074.7/2

Right Out: -105.660+/-0.075 χ^2/NDF : 355093.7/18

Left In: -171.171+/-0.157 χ^2/NDF : 2898.6/1

Left: -173.744+/-0.107 χ^2/NDF : 7481.1/4

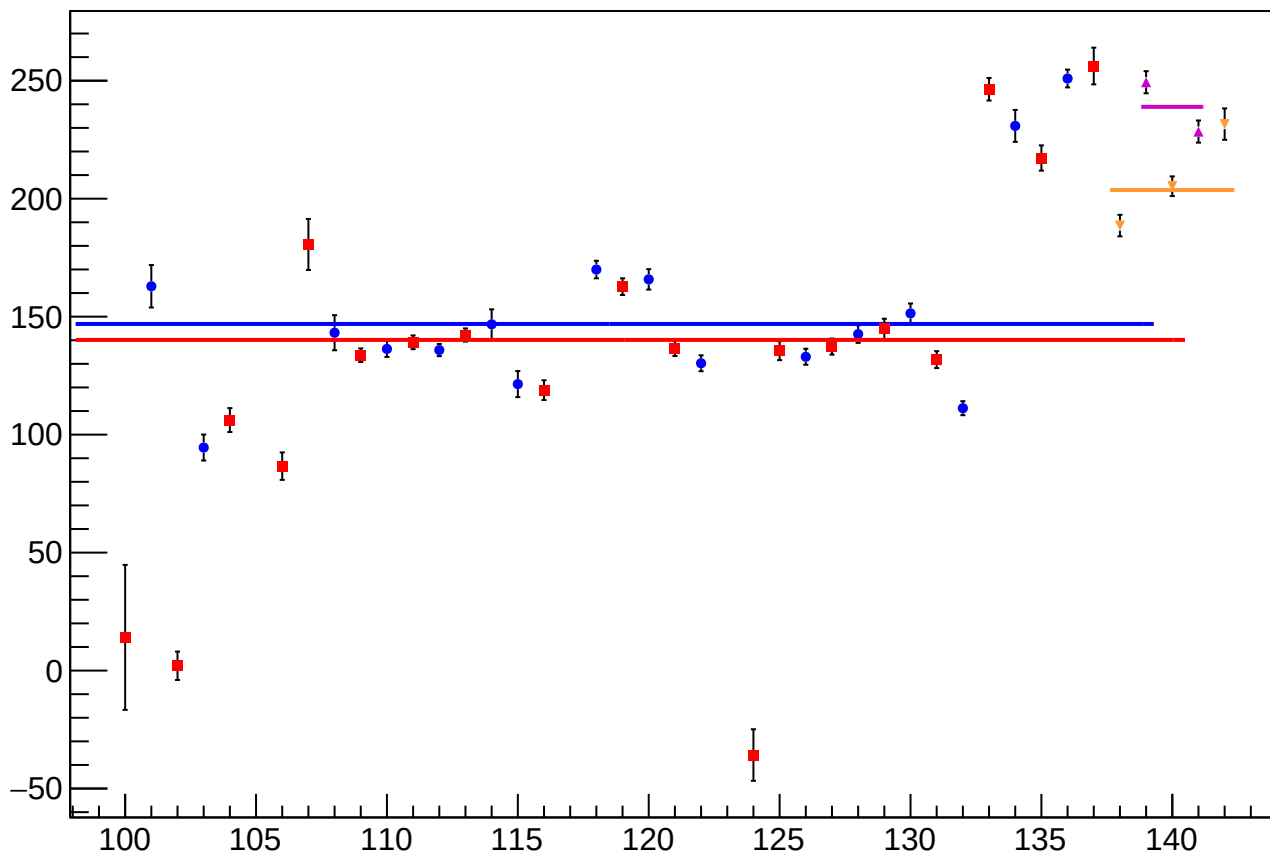
Right: -113.006+/-0.054 χ^2/NDF : 495037.6/34

In: -131.424+/-0.071 χ^2/NDF : 203050.0/17

Out: -120.045+/-0.067 χ^2/NDF : 540526.0/21

All: -125.397+/-0.048 χ^2/NDF : 757295.3/39

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 146.905 $\pm$ 1.003 χ^2 /NDF: 1302.0/15

Left Out: 203.662 $\pm$ 2.791 χ^2 /NDF:28.8/2

Right Out: 140.153 $\pm$ 0.960 χ^2 /NDF: 1950.6/18

Left In: 238.922 $\pm$ 3.318 χ^2 /NDF:9.9/1

Left: 218.275 $\pm$ 2.136 χ^2 /NDF: 104.8/4

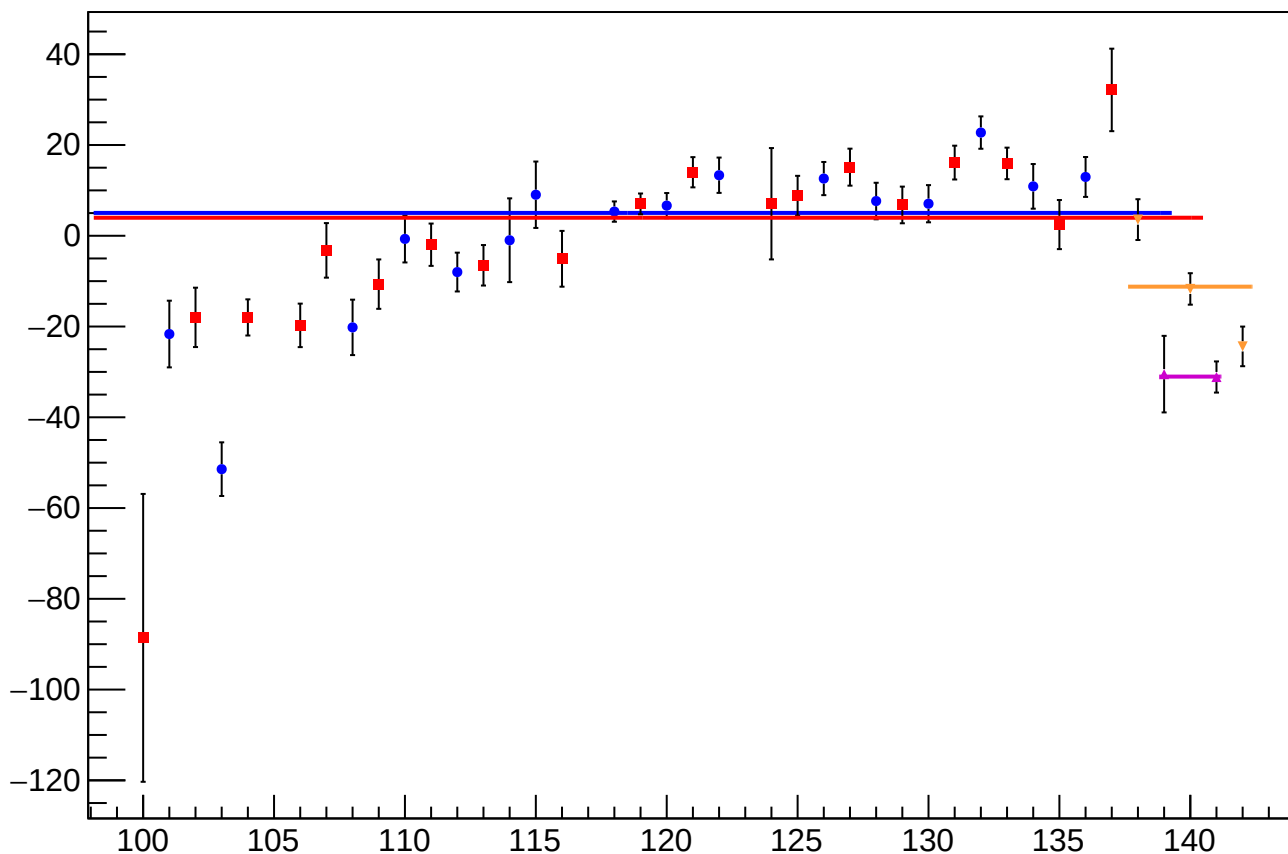
Right: 143.381 $\pm$ 0.694 χ^2 /NDF: 3276.2/34

In: 154.613 $\pm$ 0.960 χ^2 /NDF:2016.5/17

Out: 146.870 $\pm$ 0.908 χ^2 /NDF:2442.2/21

All: 150.524 $\pm$ 0.660 χ^2 /NDF: 4493.0/39

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.037+/-1.021 χ^2/NDF : 171.9/15

Left Out: -11.216+/-2.324 χ^2/NDF : 19.9/2

Right Out: 3.974+/-1.012 χ^2/NDF : 144.9/18

Left In: -31.032+/-3.180 χ^2/NDF : 0.0/1

Left: -18.115+/-1.877 χ^2/NDF : 45.2/4

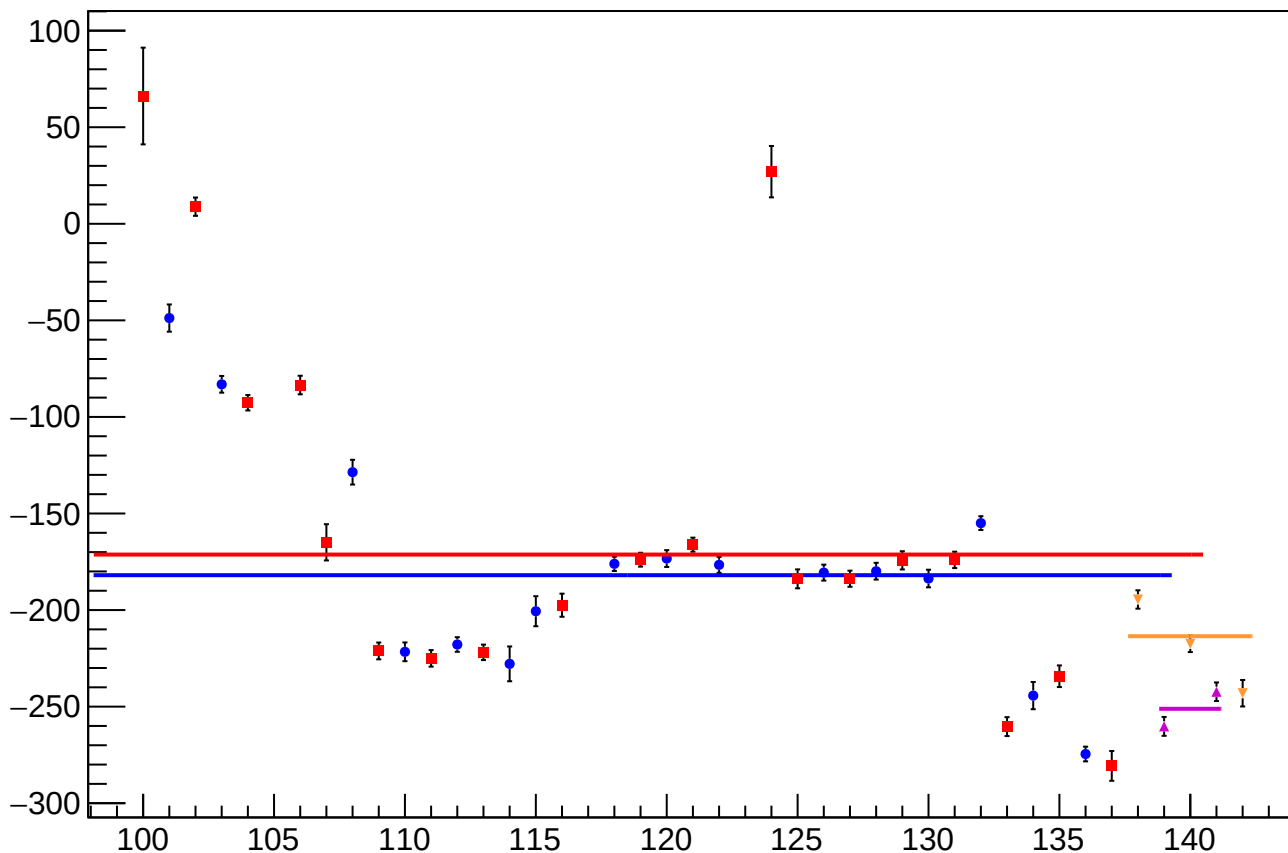
Right: 4.501+/-0.719 χ^2/NDF : 317.3/34

In: 1.668+/-0.972 χ^2/NDF : 288.5/17

Out: 1.554+/-0.928 χ^2/NDF : 200.7/21

All: 1.608+/-0.671 χ^2/NDF : 489.2/39

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -181.947 ± 1.154 $\chi^2/\text{NDF}: 1870.4/15$

Left Out: -213.543 ± 2.887 $\chi^2/\text{NDF}: 35.4/2$

Right Out: -171.262 ± 1.111 $\chi^2/\text{NDF}: 3628.2/18$

Left In: -251.129 ± 3.431 $\chi^2/\text{NDF}: 6.8/1$

Left: -229.124 ± 2.209 $\chi^2/\text{NDF}: 112.5/4$

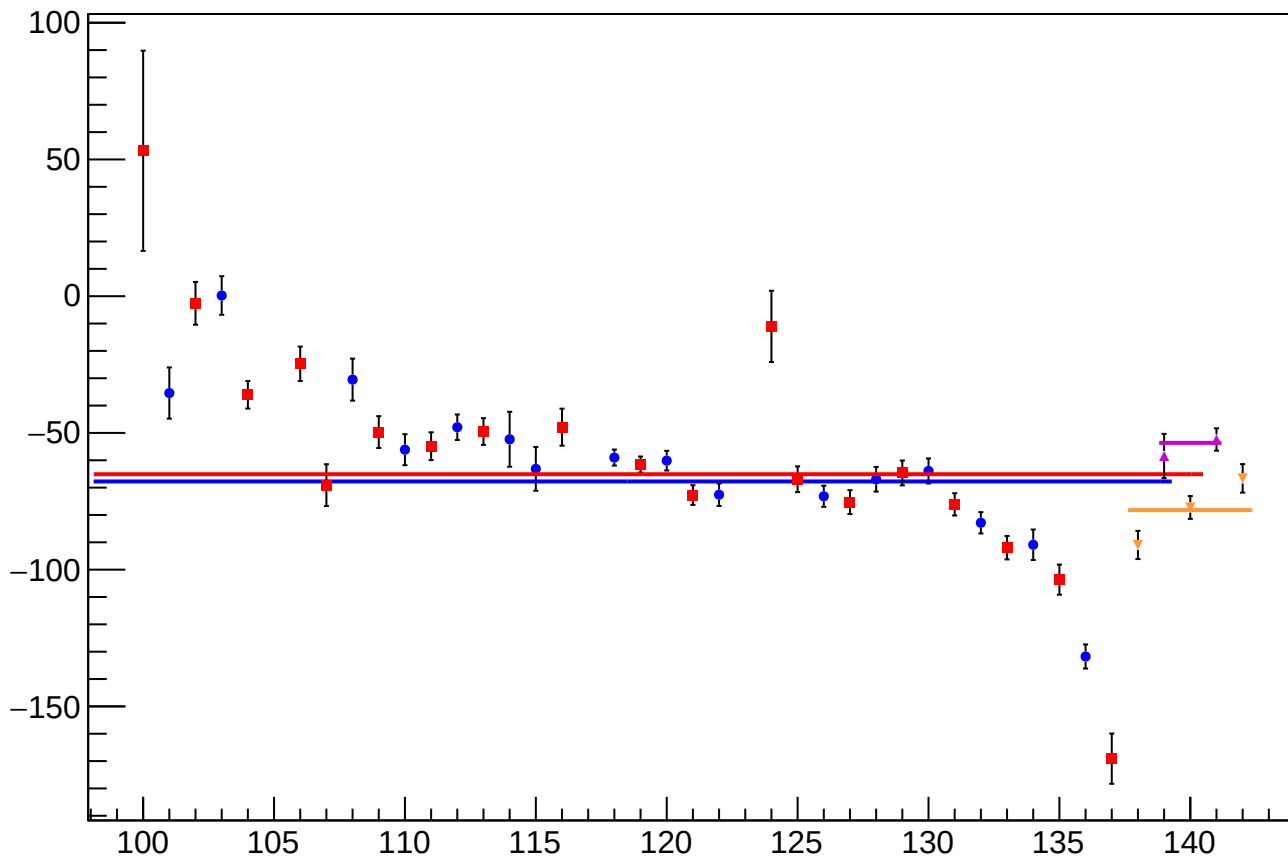
Right: -176.402 ± 0.800 $\chi^2/\text{NDF}: 5543.1/34$

In: -188.976 ± 1.094 $\chi^2/\text{NDF}: 2242.5/17$

Out: -176.715 ± 1.037 $\chi^2/\text{NDF}: 3850.3/21$

All: -182.519 ± 0.753 $\chi^2/\text{NDF}: 6159.0/39$

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -67.745 ± 1.181 $\chi^2/\text{NDF}: 414.0/15$

Left Out: -78.211 ± 2.752 $\chi^2/\text{NDF}: 11.1/2$

Right Out: -65.105 ± 1.167 $\chi^2/\text{NDF}: 429.0/18$

Left In: -53.632 ± 3.647 $\chi^2/\text{NDF}: 0.4/1$

Left: -69.292 ± 2.197 $\chi^2/\text{NDF}: 40.5/4$

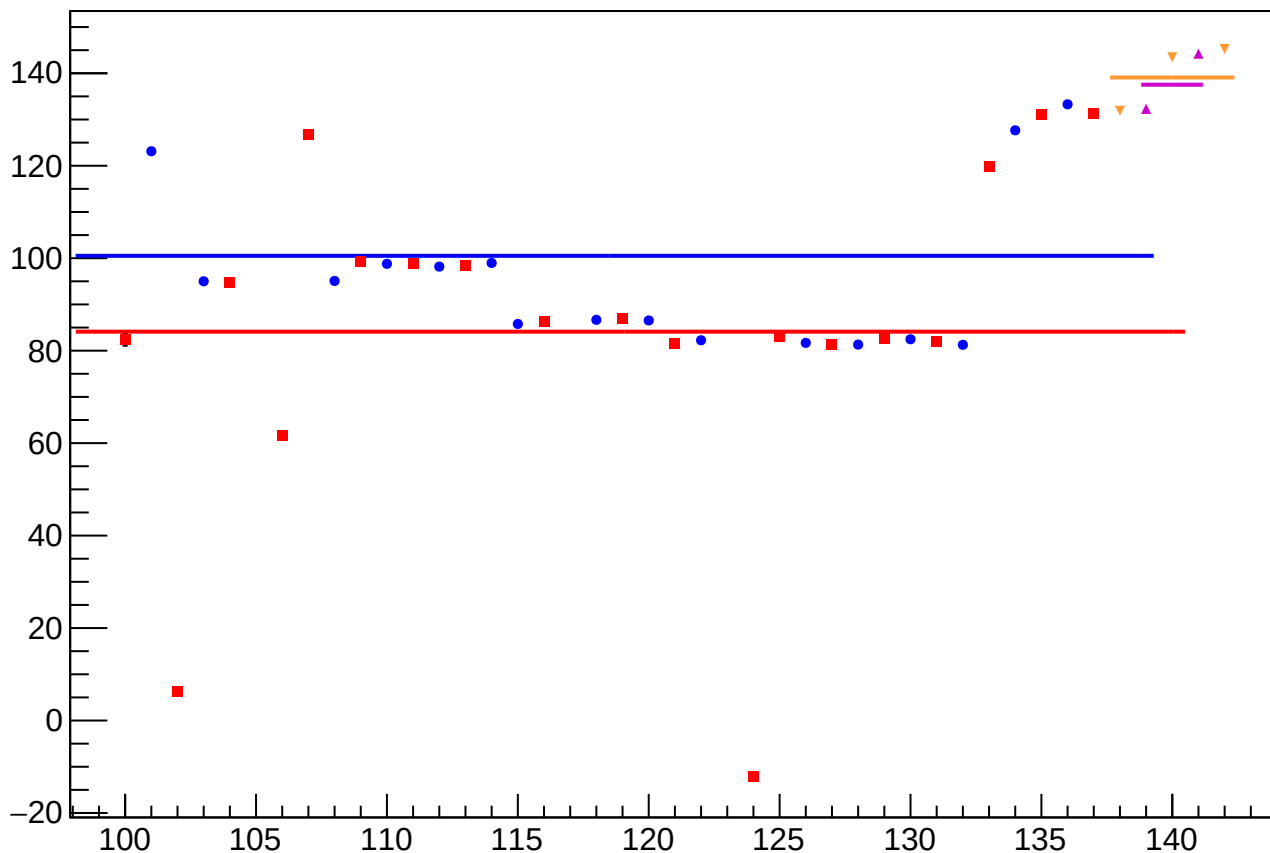
Right: -66.409 ± 0.830 $\chi^2/\text{NDF}: 845.6/34$

In: -66.406 ± 1.124 $\chi^2/\text{NDF}: 428.0/17$

Out: -67.101 ± 1.074 $\chi^2/\text{NDF}: 459.4/21$

All: -66.769 ± 0.776 $\chi^2/\text{NDF}: 887.6/39$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 100.517 $\pm$ 0.074 χ^2 /NDF: 67464.8/15

Left Out: 139.090 $\pm$ 0.122 χ^2 /NDF:2427.3/2

Right Out: 84.116 $\pm$ 0.069 χ^2 /NDF: 263788.9/18

Left In: 137.530 $\pm$ 0.131 χ^2 /NDF:2054.3/1

Left: 138.365 $\pm$ 0.089 χ^2 /NDF: 4558.0/4

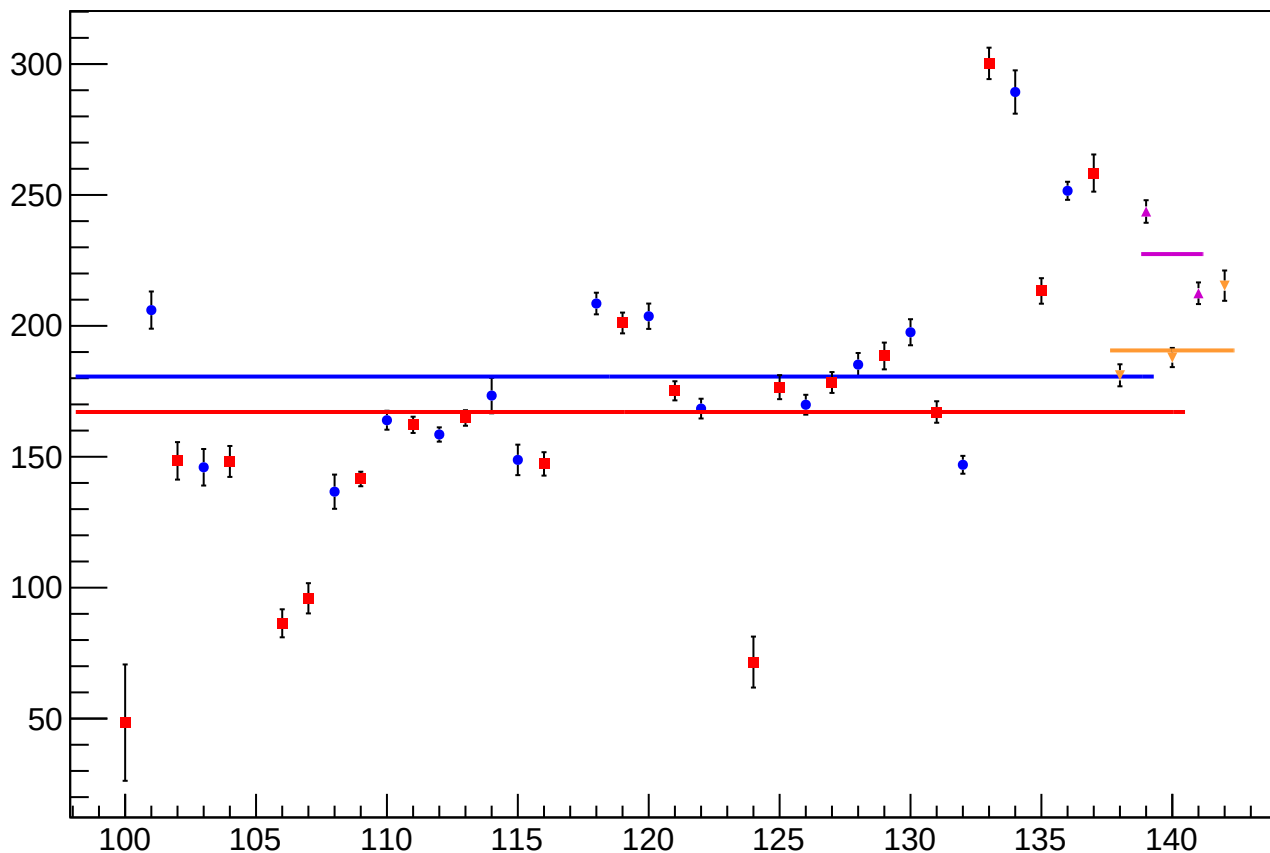
Right: 91.772 $\pm$ 0.051 χ^2 /NDF: 357470.2/34

In: 109.495 $\pm$ 0.064 χ^2 /NDF:130262.5/17

Out: 97.543 $\pm$ 0.060 χ^2 /NDF:420329.0/21

All: 103.116 $\pm$ 0.044 χ^2 /NDF: 568992.7/39

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 180.634 $\pm$ 1.090 χ^2 /NDF: 993.4/15

Left Out: 190.614 $\pm$ 2.494 χ^2 /NDF:23.9/2

Right Out: 167.102 $\pm$ 1.021 χ^2 /NDF: 1484.6/18

Left In: 227.422 $\pm$ 2.984 χ^2 /NDF:27.3/1

Left: 205.751 $\pm$ 1.913 χ^2 /NDF: 140.8/4

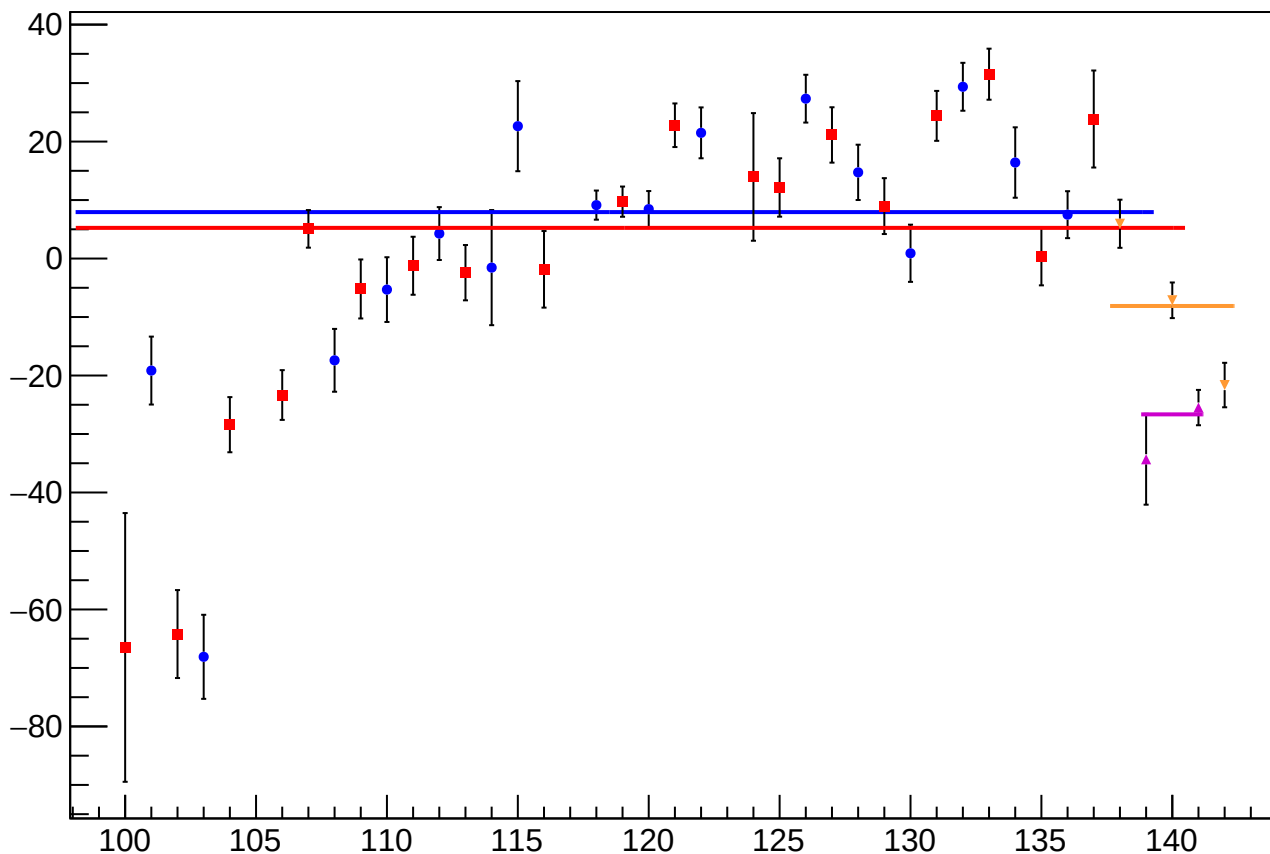
Right: 173.427 $\pm$ 0.745 χ^2 /NDF: 2560.1/34

In: 186.140 $\pm$ 1.024 χ^2 /NDF:1237.7/17

Out: 170.476 $\pm$ 0.945 χ^2 /NDF:1584.6/21

All: 177.682 $\pm$ 0.694 χ^2 /NDF: 2948.8/39

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.942 ± 1.113 χ^2/NDF : 232.9/15

Left Out: -8.111 ± 2.058 χ^2/NDF : 24.4/2

Right Out: 5.244 ± 1.062 χ^2/NDF : 302.9/18

Left In: -26.643 ± 2.816 χ^2/NDF : 1.1/1

Left: -14.564 ± 1.662 χ^2/NDF : 53.8/4

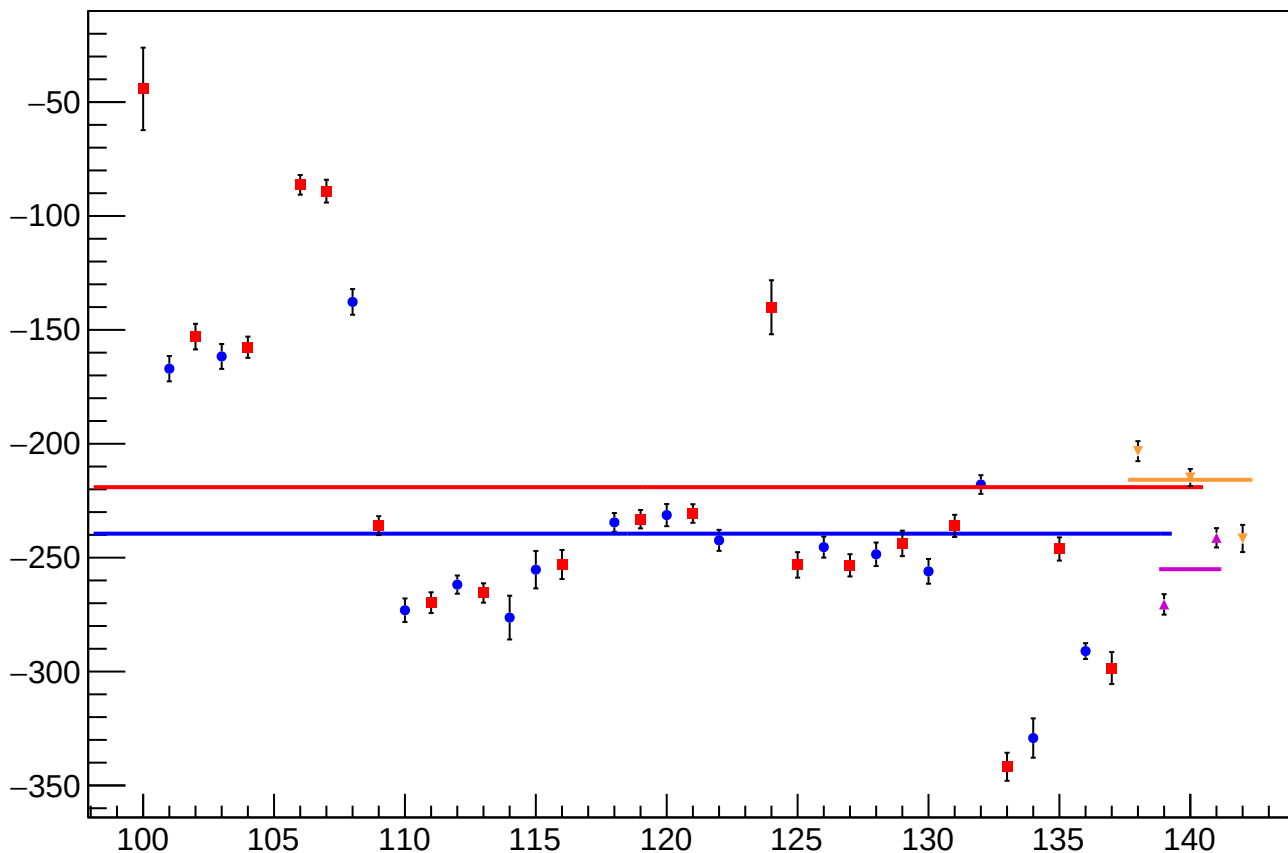
Right: 6.530 ± 0.768 χ^2/NDF : 538.9/34

In: 3.267 ± 1.035 χ^2/NDF : 364.5/17

Out: 2.435 ± 0.944 χ^2/NDF : 360.6/21

All: 2.813 ± 0.697 χ^2/NDF : 725.5/39

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -239.468+/-1.245 χ^2/NDF : 1162.2/15

Left Out: -215.819+/-2.579 χ^2/NDF : 26.9/2

Right Out: -219.053+/-1.176 χ^2/NDF : 3049.3/18

Left In: -255.062+/-3.084 χ^2/NDF : 22.4/1

Left: -231.965+/-1.978 χ^2/NDF : 144.6/4

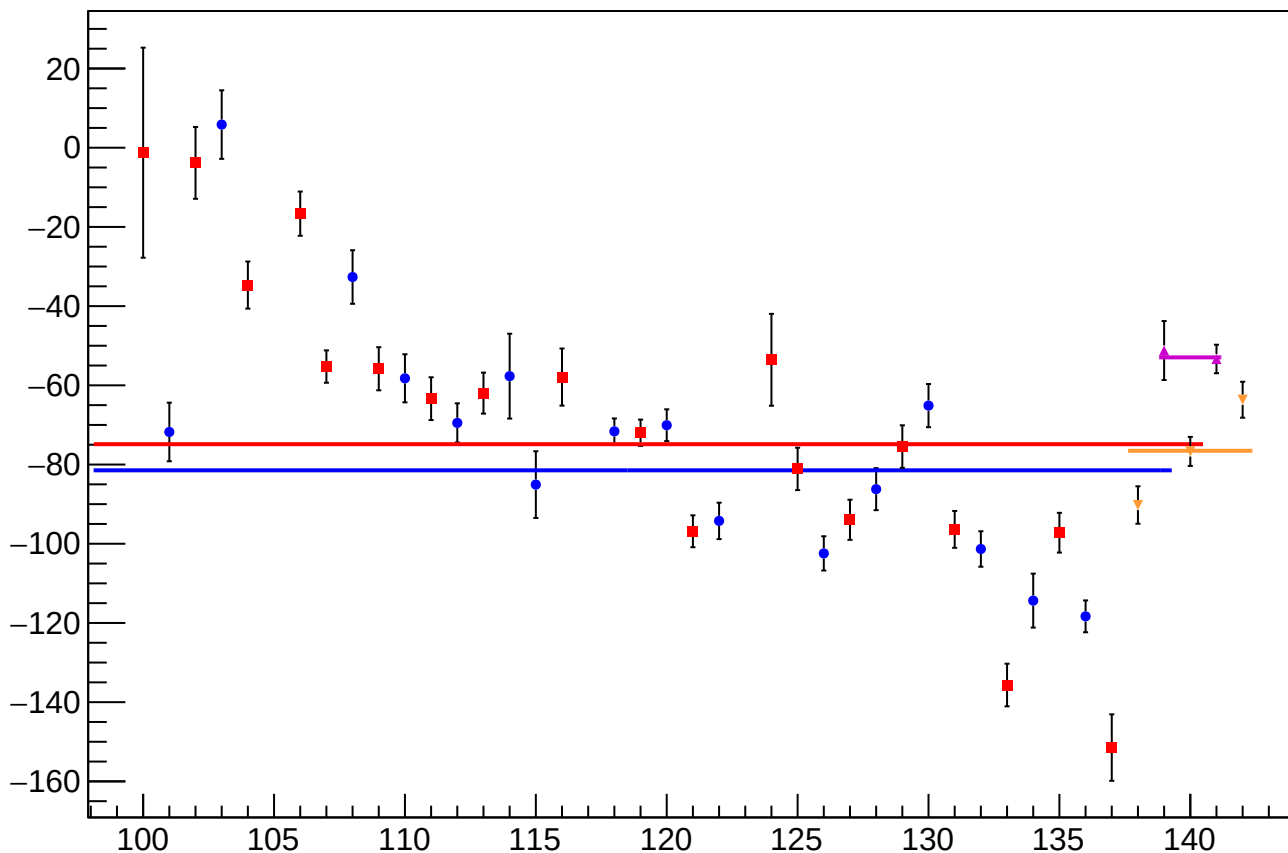
Right: -228.679+/-0.855 χ^2/NDF : 4353.5/34

In: -241.655+/-1.155 χ^2/NDF : 1206.6/17

Out: -218.496+/-1.070 χ^2/NDF : 3077.5/21

All: -229.196+/-0.785 χ^2/NDF : 4500.5/39

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -81.462 ± 1.287 $\chi^2/\text{NDF}: 366.5/15$

Left Out: -76.527 ± 2.441 $\chi^2/\text{NDF}: 16.4/2$

Right Out: -74.861 ± 1.230 $\chi^2/\text{NDF}: 576.6/18$

Left In: -52.941 ± 3.238 $\chi^2/\text{NDF}: 0.1/1$

Left: -67.980 ± 1.949 $\chi^2/\text{NDF}: 50.3/4$

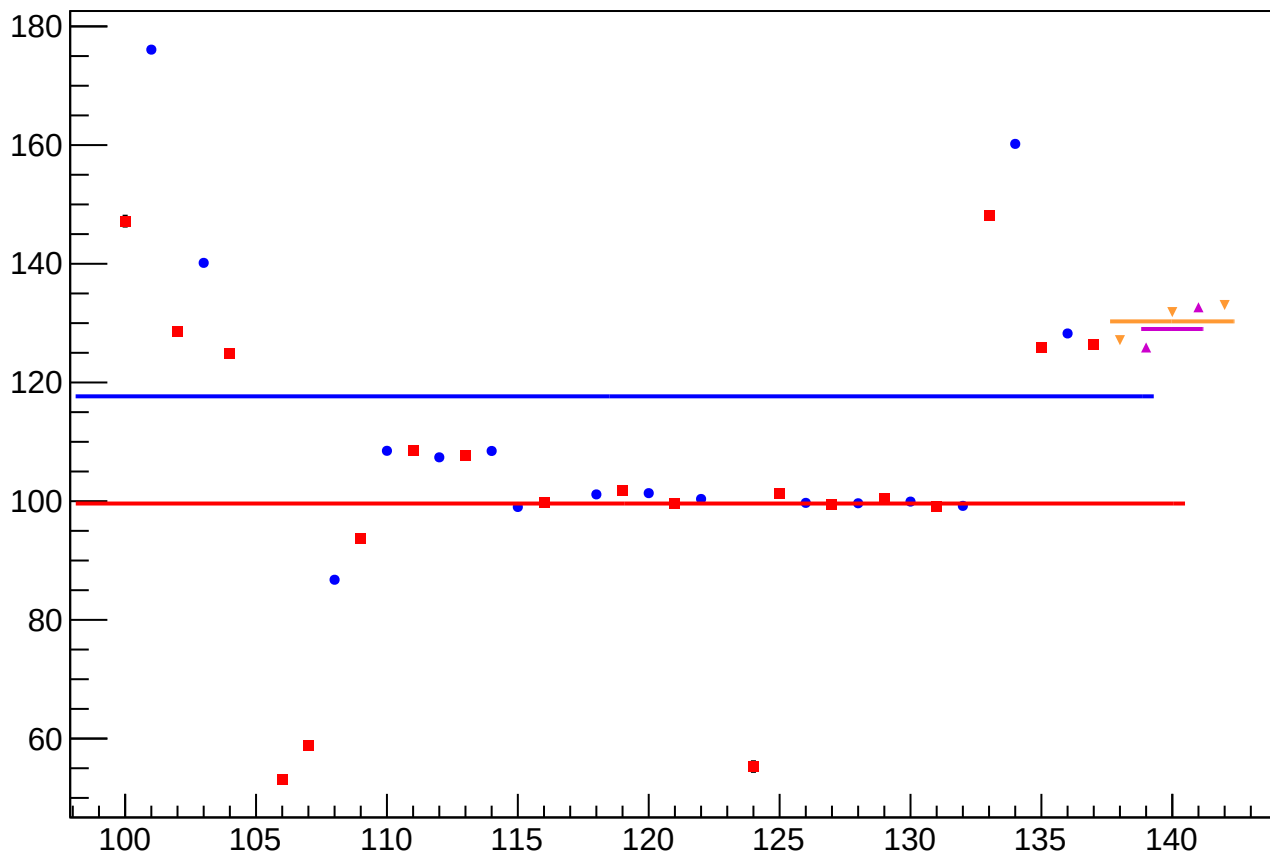
Right: -78.013 ± 0.889 $\chi^2/\text{NDF}: 956.9/34$

In: -77.572 ± 1.196 $\chi^2/\text{NDF}: 433.5/17$

Out: -75.198 ± 1.099 $\chi^2/\text{NDF}: 593.4/21$

All: -76.285 ± 0.809 $\chi^2/\text{NDF}: 1029.1/39$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 117.666 $\pm$ 0.078 χ^2 /NDF: 95397.2/15

Left Out: 130.293 $\pm$ 0.109 χ^2 /NDF:533.9/2

Right Out: 99.604 $\pm$ 0.070 χ^2 /NDF: 166236.0/18

Left In: 129.012 $\pm$ 0.118 χ^2 /NDF:818.0/1

Left: 129.703 $\pm$ 0.080 χ^2 /NDF: 1415.5/4

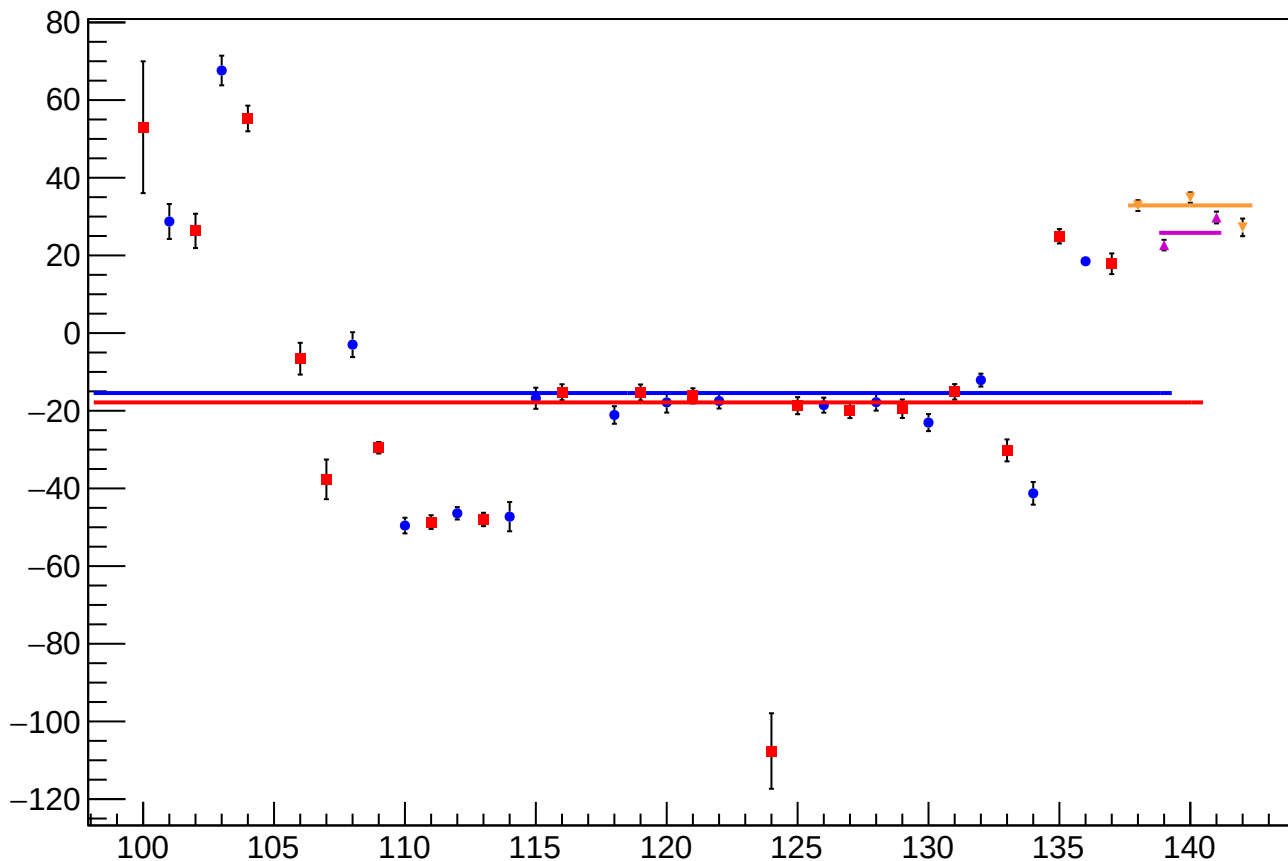
Right: 107.671 $\pm$ 0.052 χ^2 /NDF: 291112.6/34

In: 121.133 $\pm$ 0.065 χ^2 /NDF:102638.7/17

Out: 108.612 $\pm$ 0.059 χ^2 /NDF:222698.7/21

All: 114.257 $\pm$ 0.044 χ^2 /NDF: 345581.3/39

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.438 ± 0.539 $\chi^2/\text{NDF}: 2124.2/15$

Left Out: 32.881 ± 0.887 $\chi^2/\text{NDF}: 8.5/2$

Right Out: -17.848 ± 0.530 $\chi^2/\text{NDF}: 2125.2/18$

Left In: 25.816 ± 1.011 $\chi^2/\text{NDF}: 12.2/1$

Left: 29.809 ± 0.667 $\chi^2/\text{NDF}: 48.2/4$

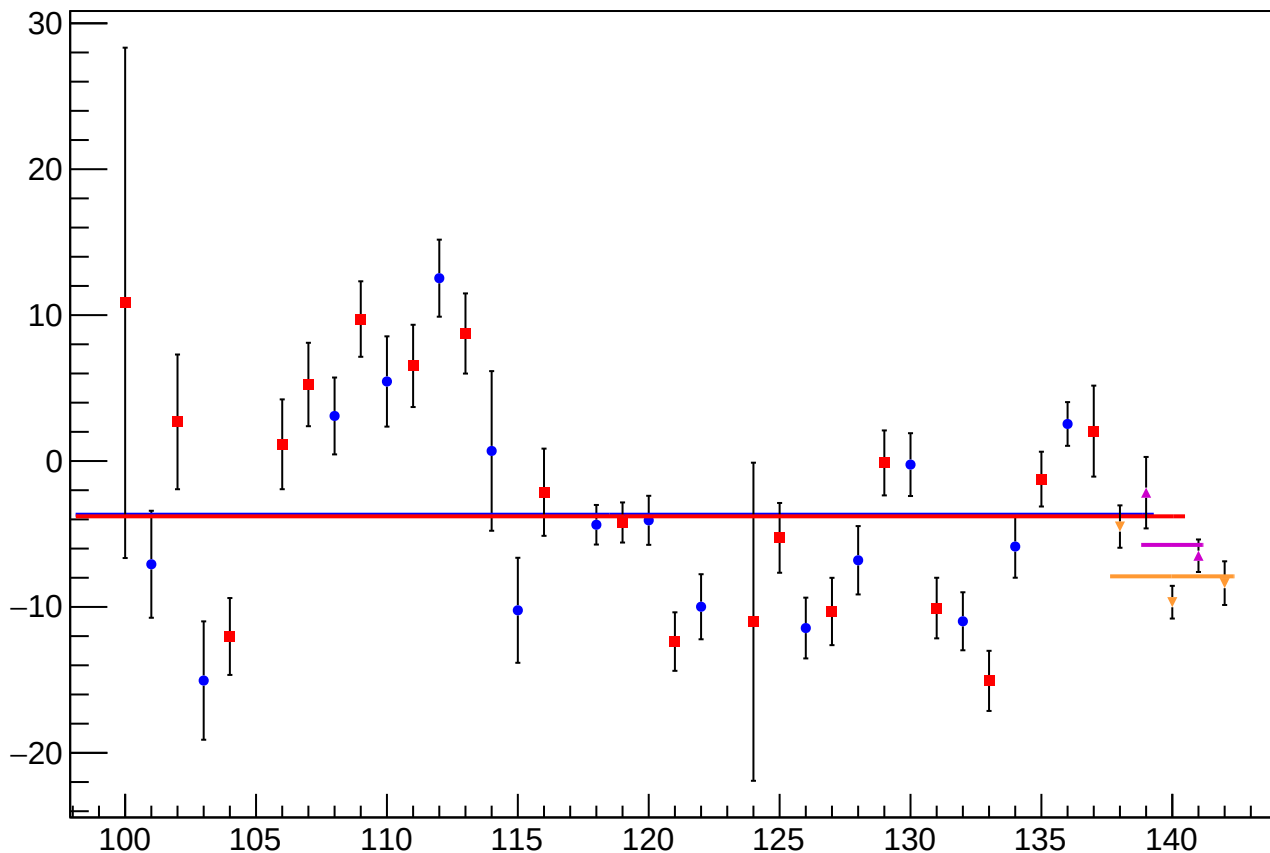
Right: -16.664 ± 0.378 $\chi^2/\text{NDF}: 4259.6/34$

In: -6.311 ± 0.476 $\chi^2/\text{NDF}: 3432.3/17$

Out: -4.516 ± 0.455 $\chi^2/\text{NDF}: 4544.7/21$

All: -5.373 ± 0.329 $\chi^2/\text{NDF}: 7984.4/39$

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.679 ± 0.552 χ^2/NDF : 124.0/15

Left Out: -7.903 ± 0.763 χ^2/NDF : 8.1/2

Right Out: -3.790 ± 0.564 χ^2/NDF : 161.2/18

Left In: -5.748 ± 1.015 χ^2/NDF : 2.6/1

Left: -7.124 ± 0.610 χ^2/NDF : 13.6/4

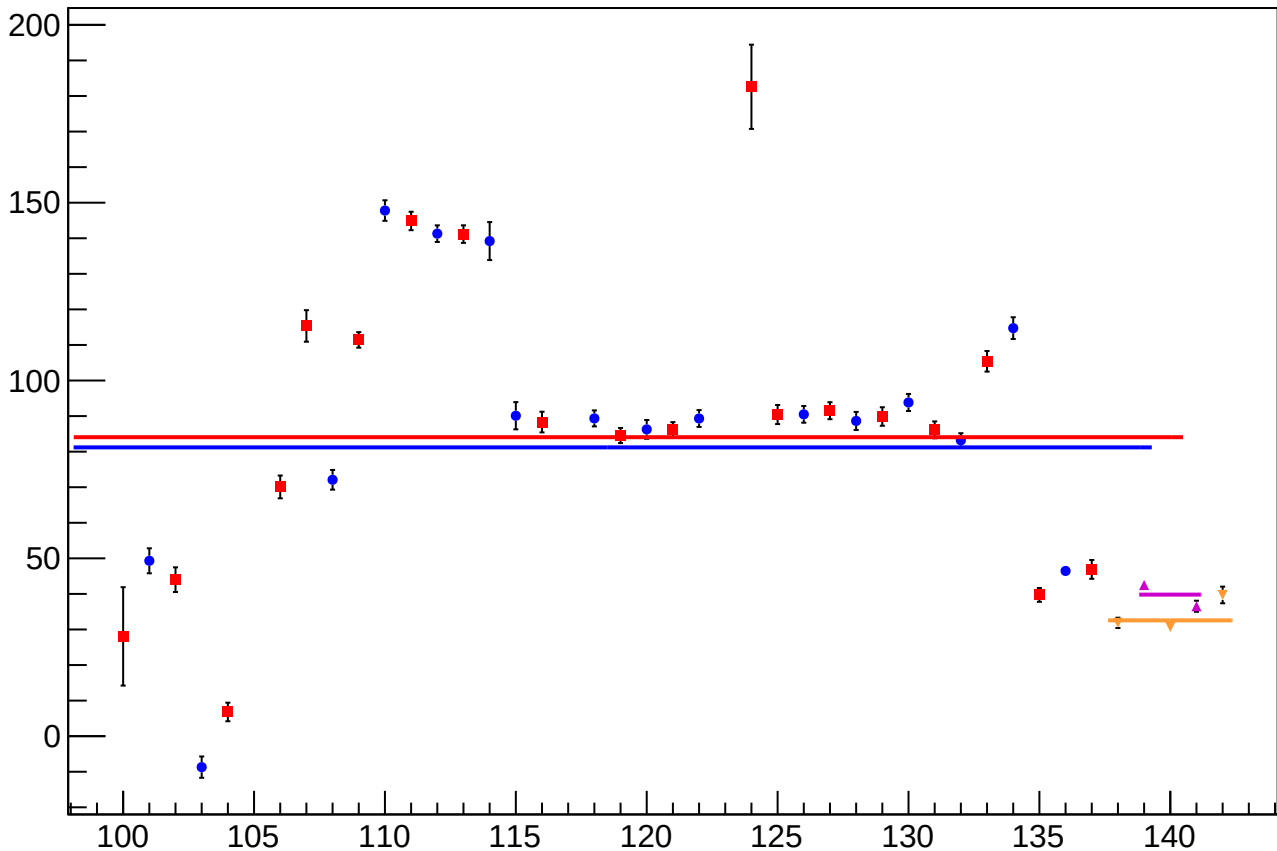
Right: -3.734 ± 0.394 χ^2/NDF : 285.2/34

In: -4.152 ± 0.485 χ^2/NDF : 129.8/17

Out: -5.241 ± 0.453 χ^2/NDF : 188.1/21

All: -4.733 ± 0.331 χ^2/NDF : 320.6/39

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 81.203+/-0.607 χ^2/NDF : 3230.5/15

Left Out: 32.556+/-0.918 χ^2/NDF : 11.3/2

Right Out: 84.065+/-0.616 χ^2/NDF : 3206.5/18

Left In: 39.803+/-1.047 χ^2/NDF : 8.1/1

Left: 35.708+/-0.690 χ^2/NDF : 46.5/4

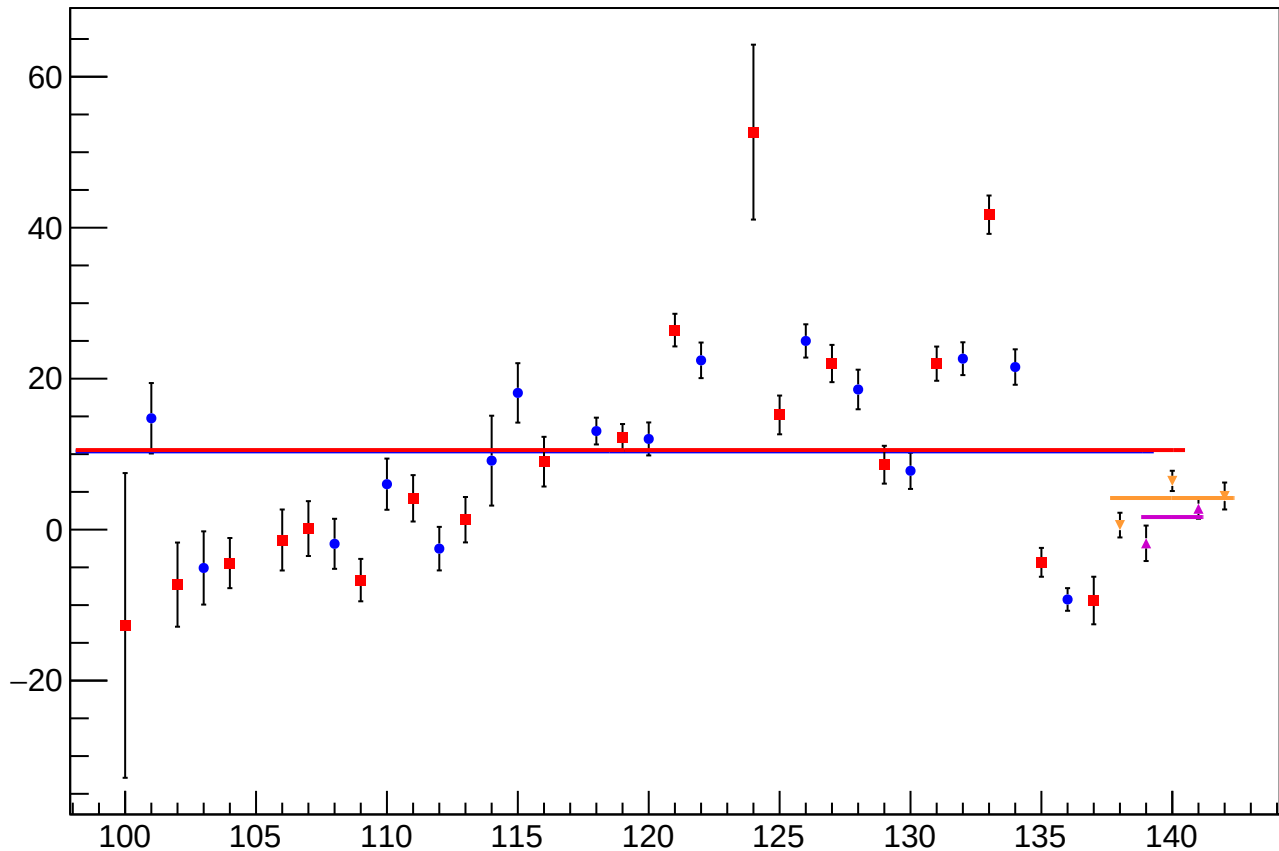
Right: 82.612+/-0.432 χ^2/NDF : 6447.9/34

In: 70.780+/-0.525 χ^2/NDF : 4409.5/17

Out: 68.069+/-0.512 χ^2/NDF : 5387.2/21

All: 69.390+/-0.366 χ^2/NDF : 9810.4/39

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.367 $\pm$ 0.627 χ^2 /NDF: 359.8/15

Left Out: 4.190 $\pm$ 0.897 χ^2 /NDF: 7.7/2

Right Out: 10.539 $\pm$ 0.640 χ^2 /NDF: 470.7/18

Left In: 1.668 $\pm$ 1.152 χ^2 /NDF: 2.9/1

Left: 3.238 $\pm$ 0.708 χ^2 /NDF: 13.6/4

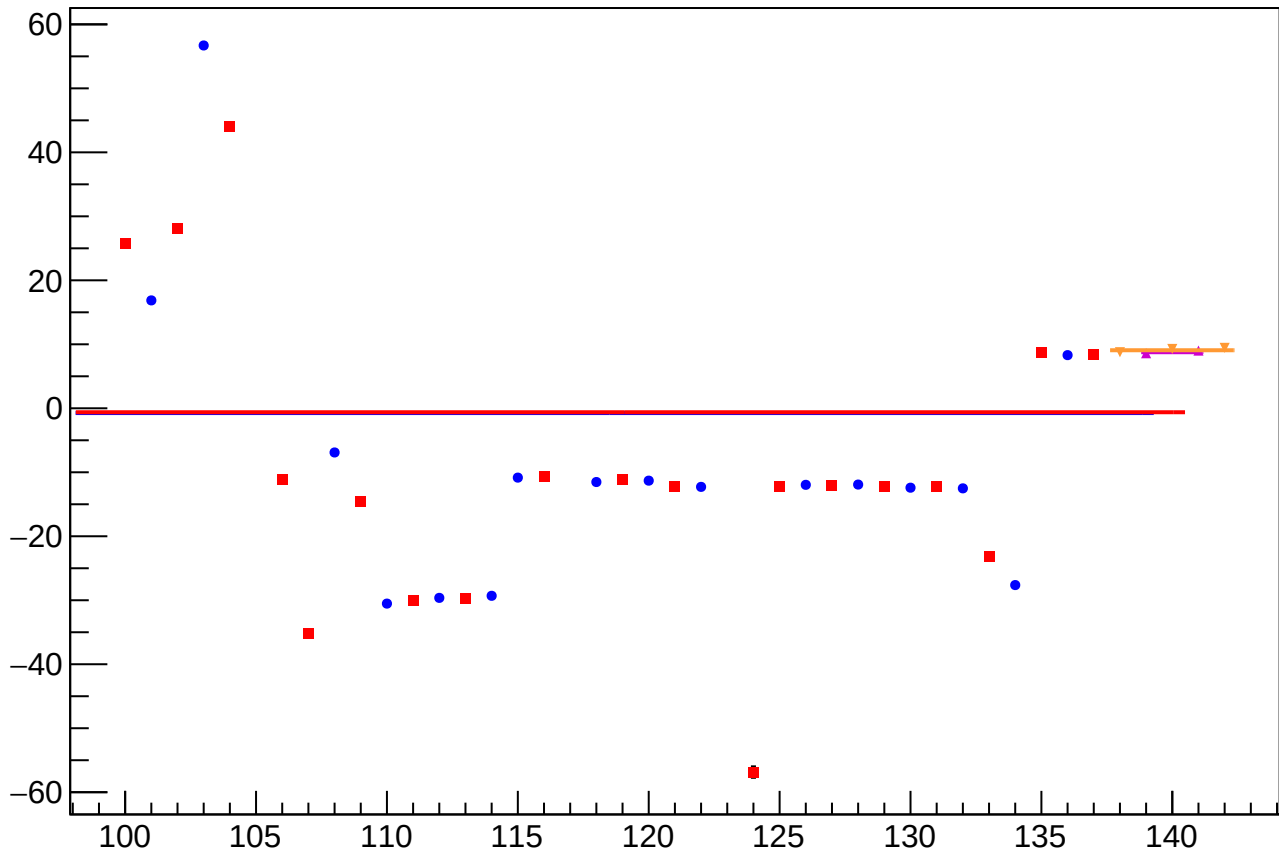
Right: 10.451 $\pm$ 0.448 χ^2 /NDF: 830.5/34

In: 8.381 $\pm$ 0.550 χ^2 /NDF: 406.7/17

Out: 8.396 $\pm$ 0.521 χ^2 /NDF: 511.6/21

All: 8.389 $\pm$ 0.378 χ^2 /NDF: 918.3/39

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.745 ± 0.036 χ^2/NDF : 367993.9/15

Left Out: 9.070 ± 0.038 χ^2/NDF : 55.7/2

Right Out: -0.618 ± 0.037 χ^2/NDF : 316492.6/18

Left In: 8.764 ± 0.039 χ^2/NDF : 26.2/1

Left: 8.922 ± 0.027 χ^2/NDF : 113.0/4

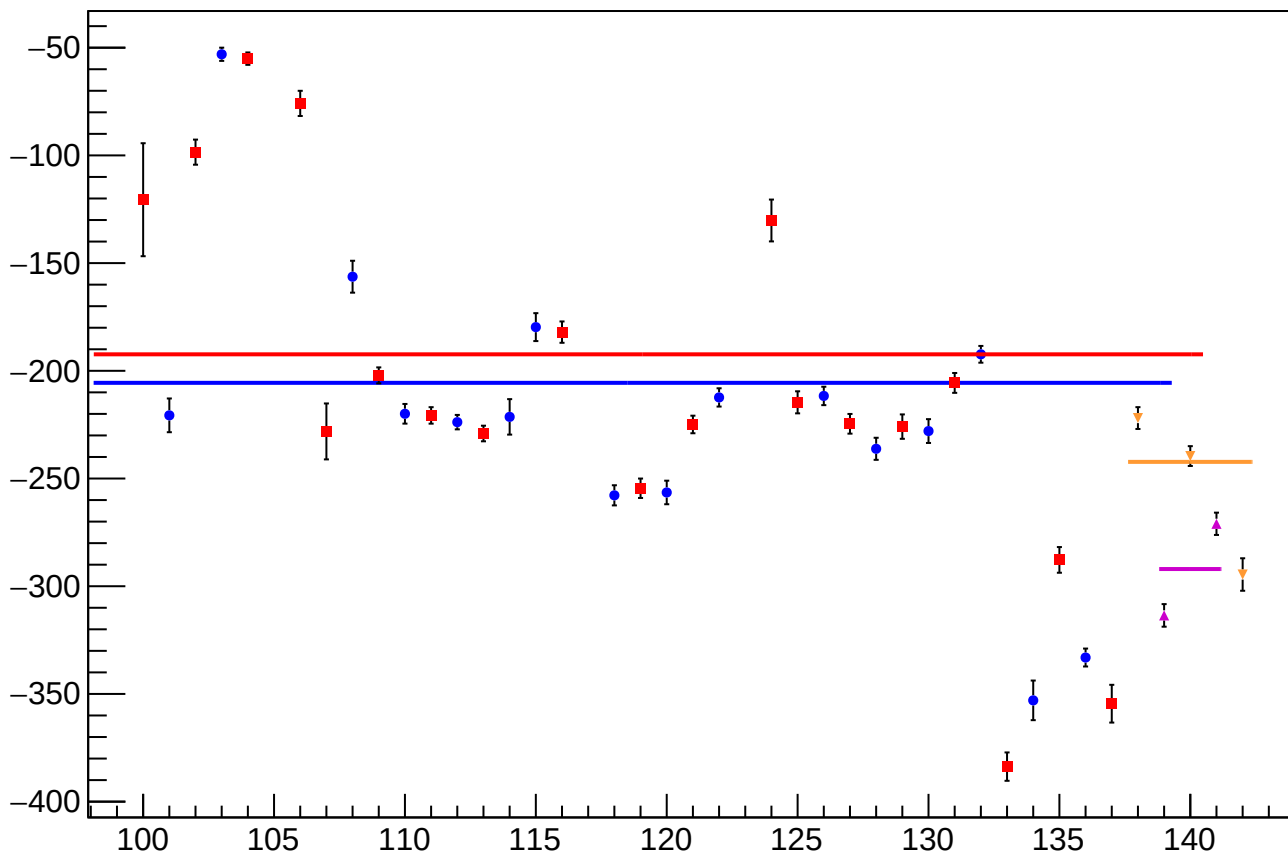
Right: -0.684 ± 0.026 χ^2/NDF : 684492.5/34

In: 3.554 ± 0.027 χ^2/NDF : 399775.3/17

Out: 4.115 ± 0.027 χ^2/NDF : 349450.0/21

All: 3.833 ± 0.019 χ^2/NDF : 749446.7/39

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -205.577+/-1.185 χ^2/NDF : 4056.0/15

Left Out: -242.270+/-3.105 χ^2/NDF : 64.5/2

Right Out: -192.345+/-1.123 χ^2/NDF : 4969.8/18

Left In: -292.016+/-3.685 χ^2/NDF : 33.3/1

Left: -262.929+/-2.374 χ^2/NDF : 204.4/4

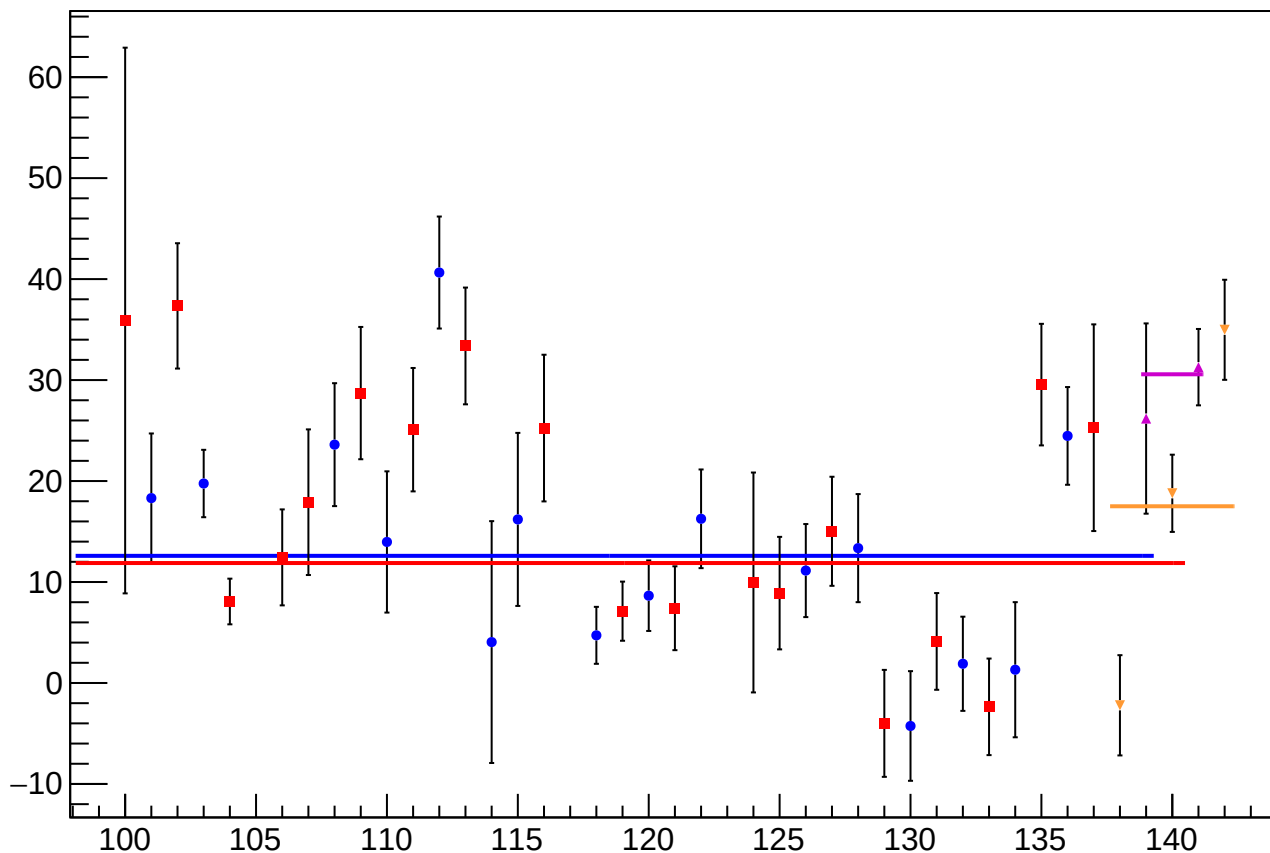
Right: -198.605+/-0.815 χ^2/NDF : 9091.6/34

In: -213.676+/-1.128 χ^2/NDF : 4588.1/17

Out: -198.115+/-1.056 χ^2/NDF : 5263.0/21

All: -205.382+/-0.771 χ^2/NDF : 9952.6/39

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.592 $\pm$ 1.203 χ^2 /NDF: 68.5/15

Left Out: 17.501 $\pm$ 2.585 χ^2 /NDF:28.3/2

Right Out: 11.880 $\pm$ 1.122 χ^2 /NDF: 84.9/18

Left In: 30.573 $\pm$ 3.510 χ^2 /NDF:0.3/1

Left: 22.098 $\pm$ 2.081 χ^2 /NDF: 37.6/4

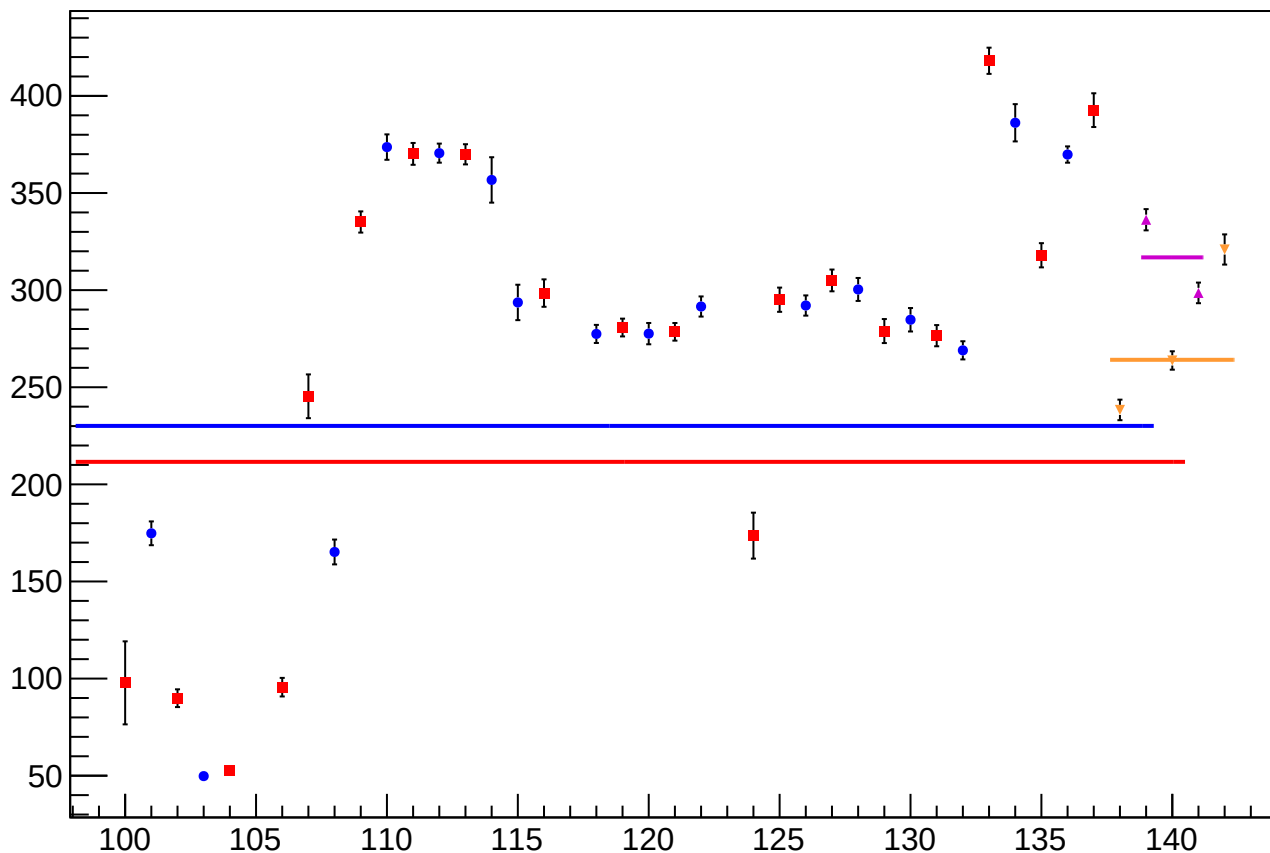
Right: 12.211 $\pm$ 0.820 χ^2 /NDF: 153.6/34

In: 14.482 $\pm$ 1.138 χ^2 /NDF:92.2/17

Out: 12.771 $\pm$ 1.029 χ^2 /NDF:117.2/21

All: 13.540 $\pm$ 0.763 χ^2 /NDF: 210.7/39

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 230.095 $\pm$ 1.260 χ^2 /NDF: 9375.6/15

Left Out: 264.126 $\pm$ 3.212 χ^2 /NDF: 77.2/2

Right Out: 211.588 $\pm$ 1.195 χ^2 /NDF: 11472.1/18

Left In: 316.864 $\pm$ 3.810 χ^2 /NDF: 24.4/1

Left: 286.033 $\pm$ 2.456 χ^2 /NDF: 213.6/4

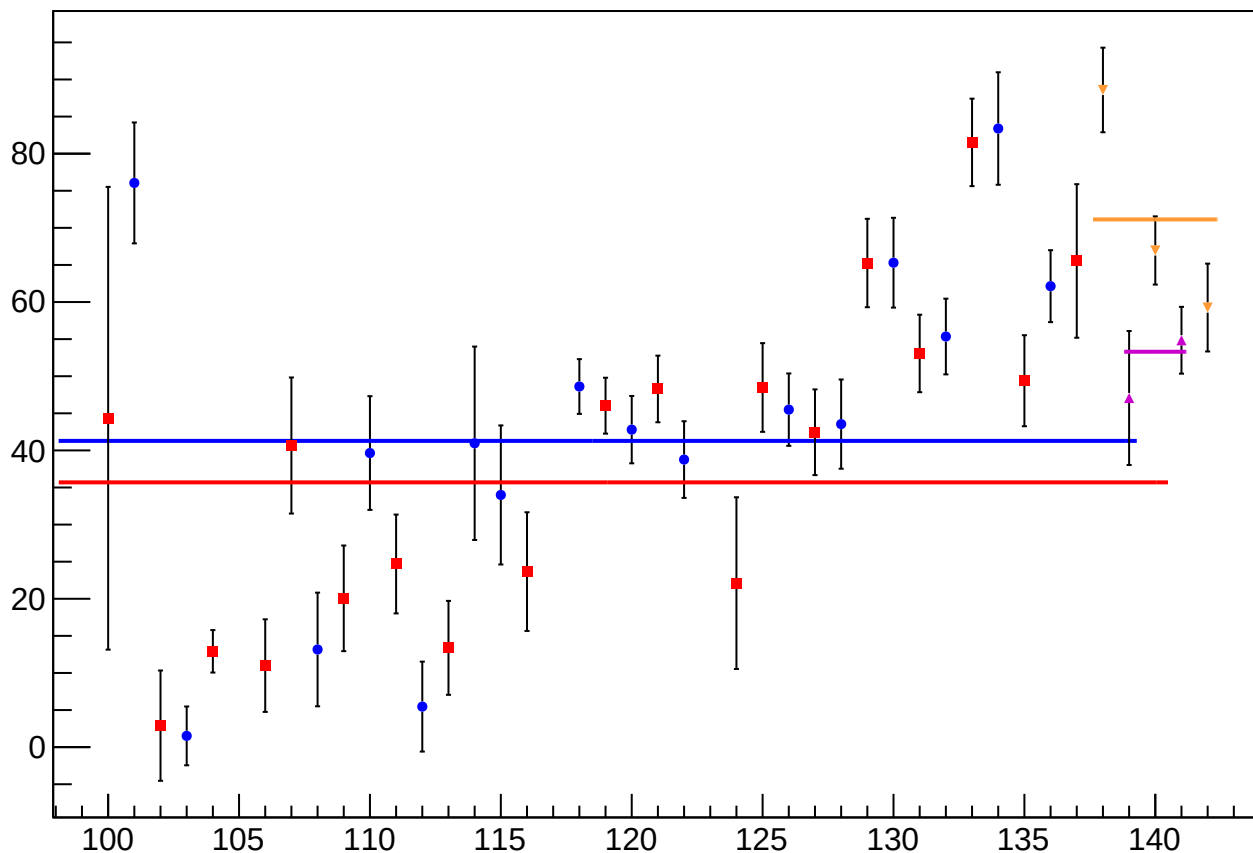
Right: 220.357 $\pm$ 0.867 χ^2 /NDF: 20961.4/34

In: 238.645 $\pm$ 1.196 χ^2 /NDF: 9867.6/17

Out: 217.980 $\pm$ 1.120 χ^2 /NDF: 11784.4/21

All: 227.637 $\pm$ 0.818 χ^2 /NDF: 21811.0/39

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.282 $\pm$ 1.398 χ^2 /NDF: 245.8/15

Left Out: 71.135 $\pm$ 3.063 χ^2 /NDF:14.2/2

Right Out: 35.692 $\pm$ 1.317 χ^2 /NDF: 253.2/18

Left In: 53.299 $\pm$ 4.030 χ^2 /NDF:0.6/1

Left: 64.604 $\pm$ 2.439 χ^2 /NDF: 27.2/4

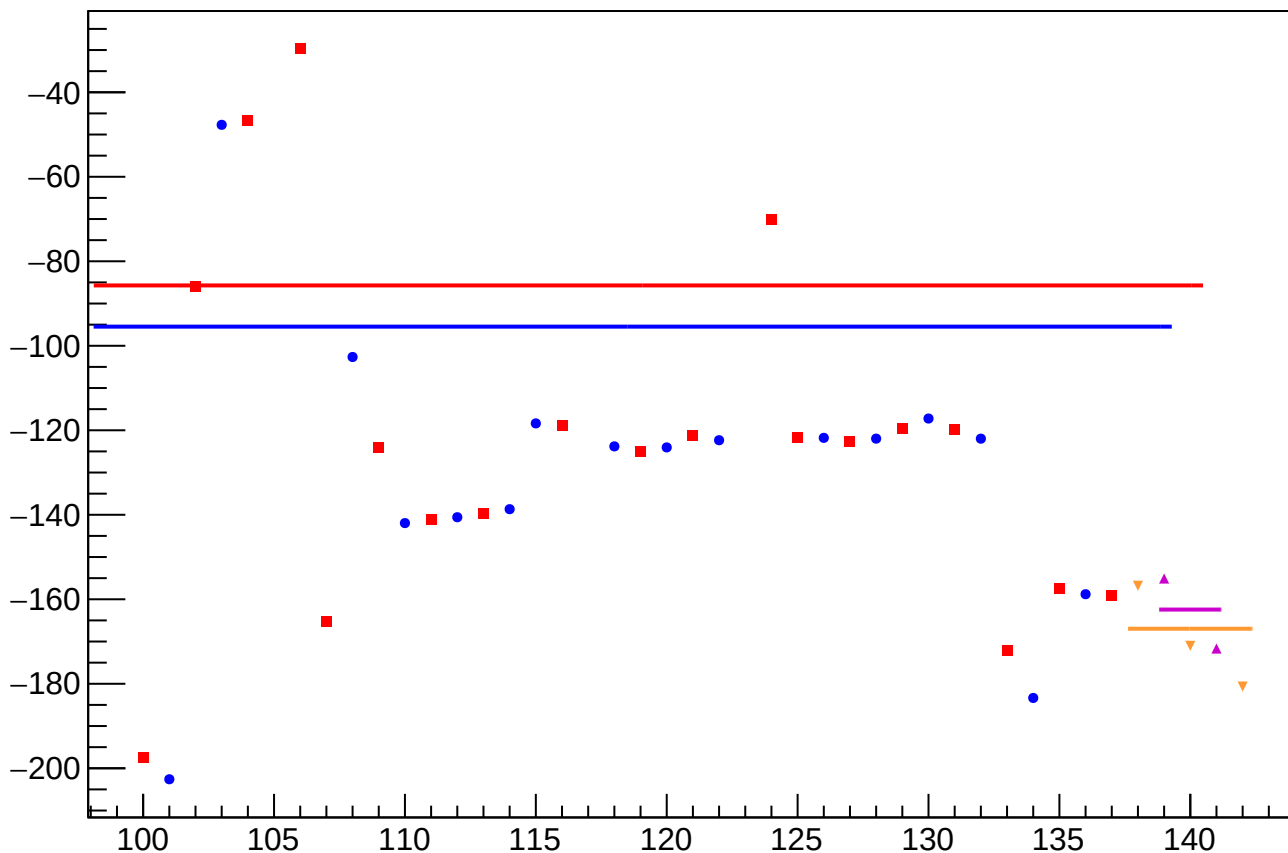
Right: 38.321 $\pm$ 0.958 χ^2 /NDF: 507.4/34

In: 42.571 $\pm$ 1.320 χ^2 /NDF:254.3/17

Out: 41.221 $\pm$ 1.210 χ^2 /NDF:380.4/21

All: 41.837 $\pm$ 0.892 χ^2 /NDF: 635.3/39

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -95.468 $\pm$ 0.069 χ^2 /NDF: 519953.8/15

Left Out: -166.971 $\pm$ 0.136 χ^2 /NDF: 4494.2/2

Right Out: -85.716 $\pm$ 0.067 χ^2 /NDF: 482604.9/18

Left In: -162.434 $\pm$ 0.145 χ^2 /NDF: 3211.5/1

Left: -164.856 $\pm$ 0.099 χ^2 /NDF: 8226.6/4

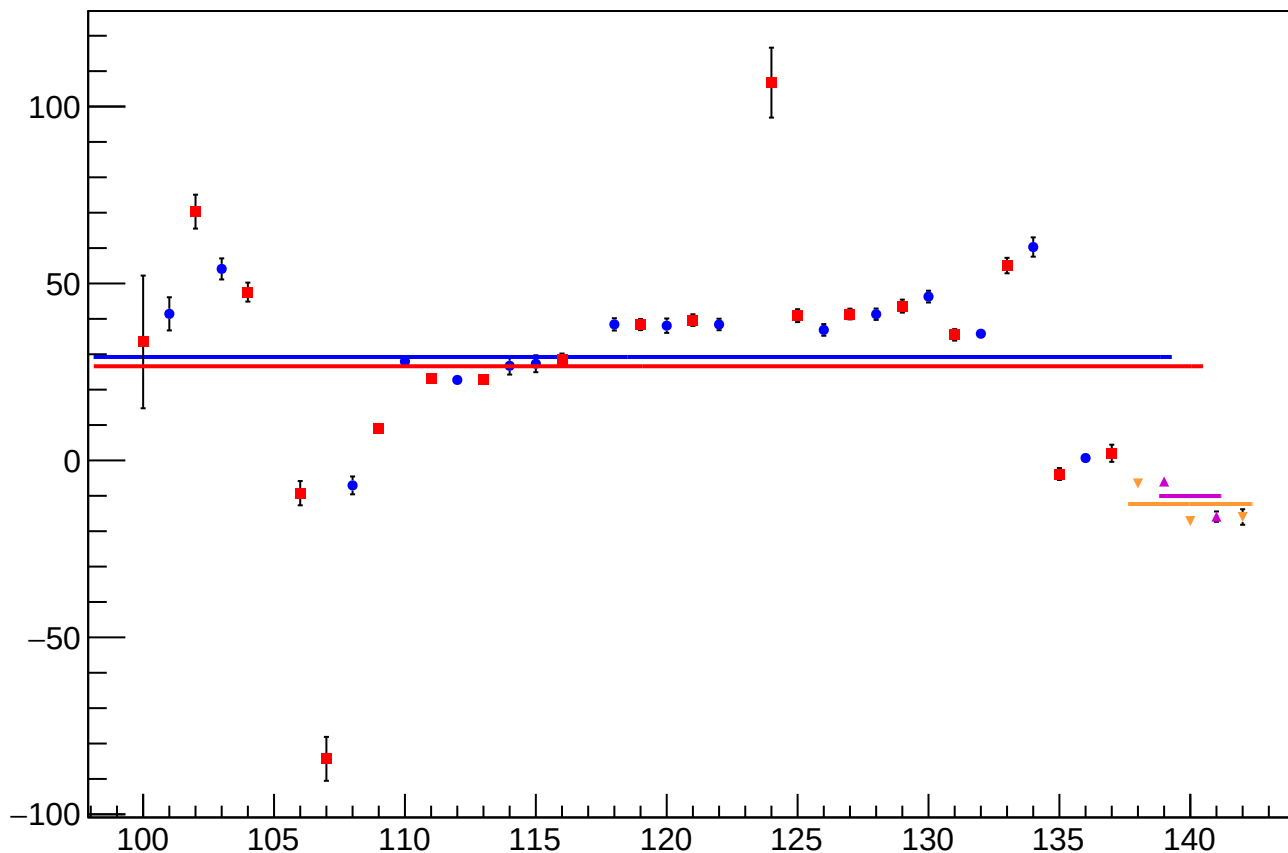
Right: -90.413 $\pm$ 0.048 χ^2 /NDF: 1012777.7/34

In: -107.931 $\pm$ 0.063 χ^2 /NDF: 696189.9/17

Out: -101.618 $\pm$ 0.060 χ^2 /NDF: 775367.9/21

All: -104.640 $\pm$ 0.043 χ^2 /NDF: 1476849.9/39

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 29.229+/-0.424 χ^2/NDF : 1342.9/15

Left Out: -12.312+/-0.832 χ^2/NDF : 38.2/2

Right Out: 26.609+/-0.414 χ^2/NDF : 1920.6/18

Left In: -10.061+/-0.939 χ^2/NDF : 27.1/1

Left: -11.321+/-0.623 χ^2/NDF : 68.5/4

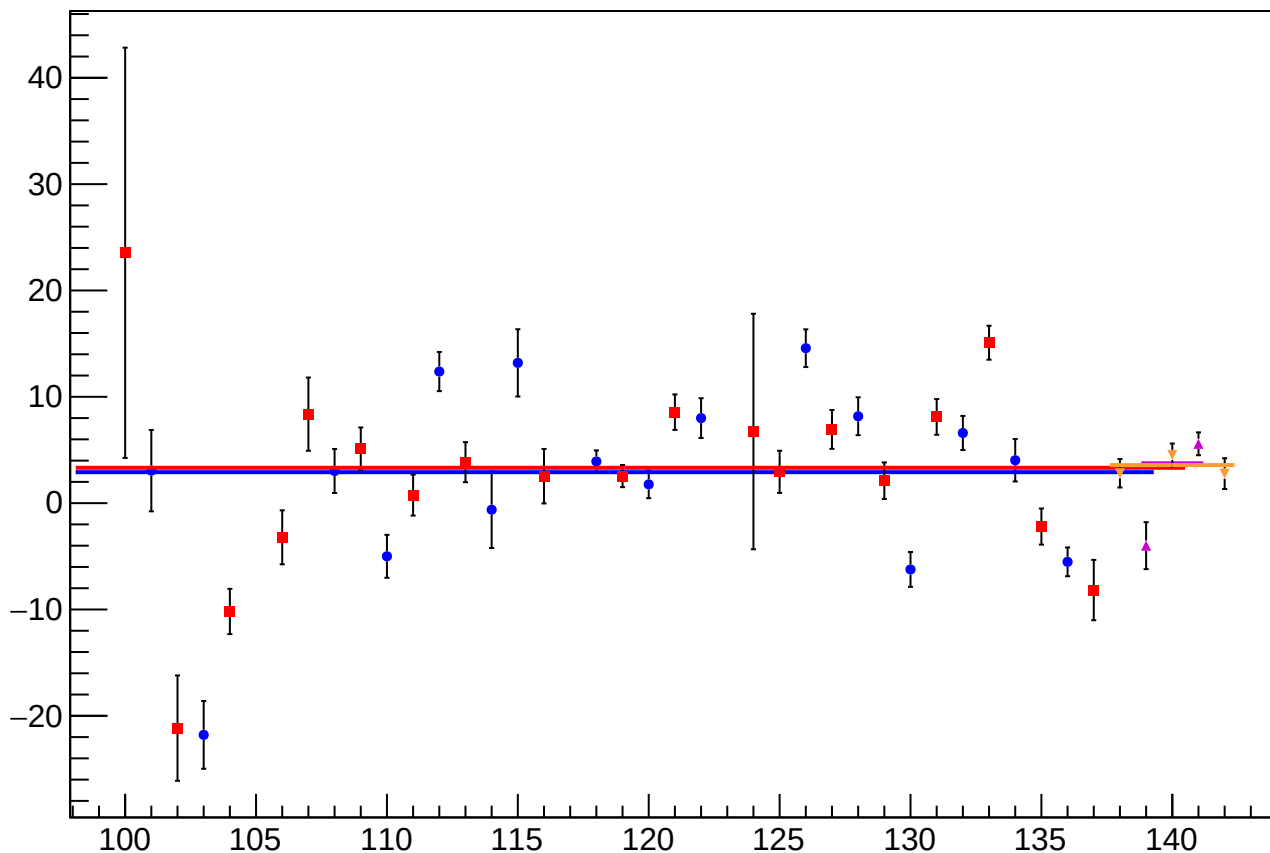
Right: 27.887+/-0.296 χ^2/NDF : 3283.1/34

In: 22.562+/-0.387 χ^2/NDF : 2825.1/17

Out: 18.885+/-0.371 χ^2/NDF : 3711.9/21

All: 20.647+/-0.268 χ^2/NDF : 6584.2/39

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.912 ± 0.442 χ^2/NDF : 250.0/15

Left Out: 3.581 ± 0.727 χ^2/NDF : 1.4/2

Right Out: 3.326 ± 0.454 χ^2/NDF : 181.8/18

Left In: 3.750 ± 0.966 χ^2/NDF : 15.2/1

Left: 3.642 ± 0.581 χ^2/NDF : 16.6/4

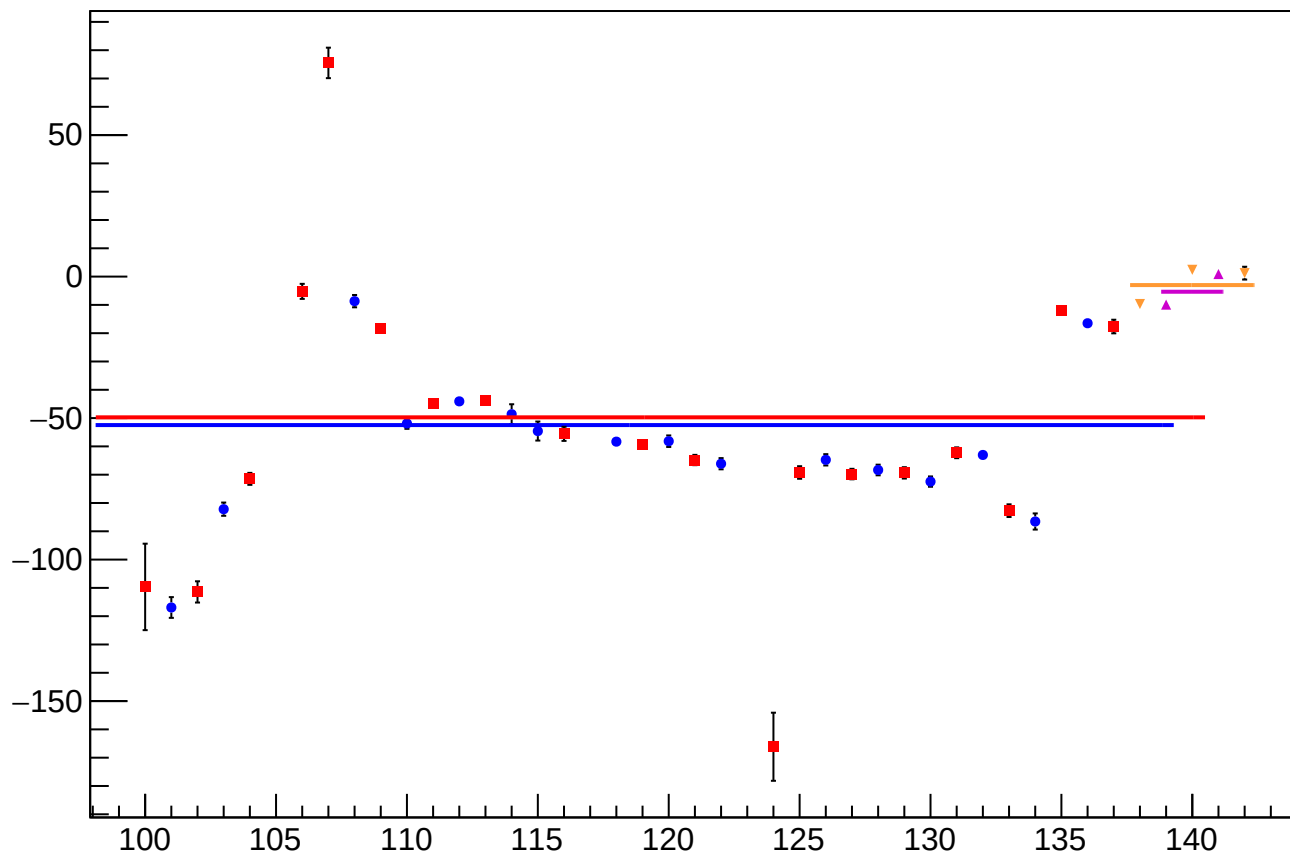
Right: 3.114 ± 0.317 χ^2/NDF : 432.2/34

In: 3.058 ± 0.402 χ^2/NDF : 265.8/17

Out: 3.397 ± 0.385 χ^2/NDF : 183.3/21

All: 3.235 ± 0.278 χ^2/NDF : 449.4/39

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.467 $\pm$ 0.488 χ^2 /NDF: 2330.2/15

Left Out: -2.997 $\pm$ 0.862 χ^2 /NDF:46.1/2

Right Out: -49.734 $\pm$ 0.494 χ^2 /NDF: 3009.7/18

Left In: -5.351 $\pm$ 0.972 χ^2 /NDF:30.1/1

Left: -4.034 $\pm$ 0.645 χ^2 /NDF: 79.5/4

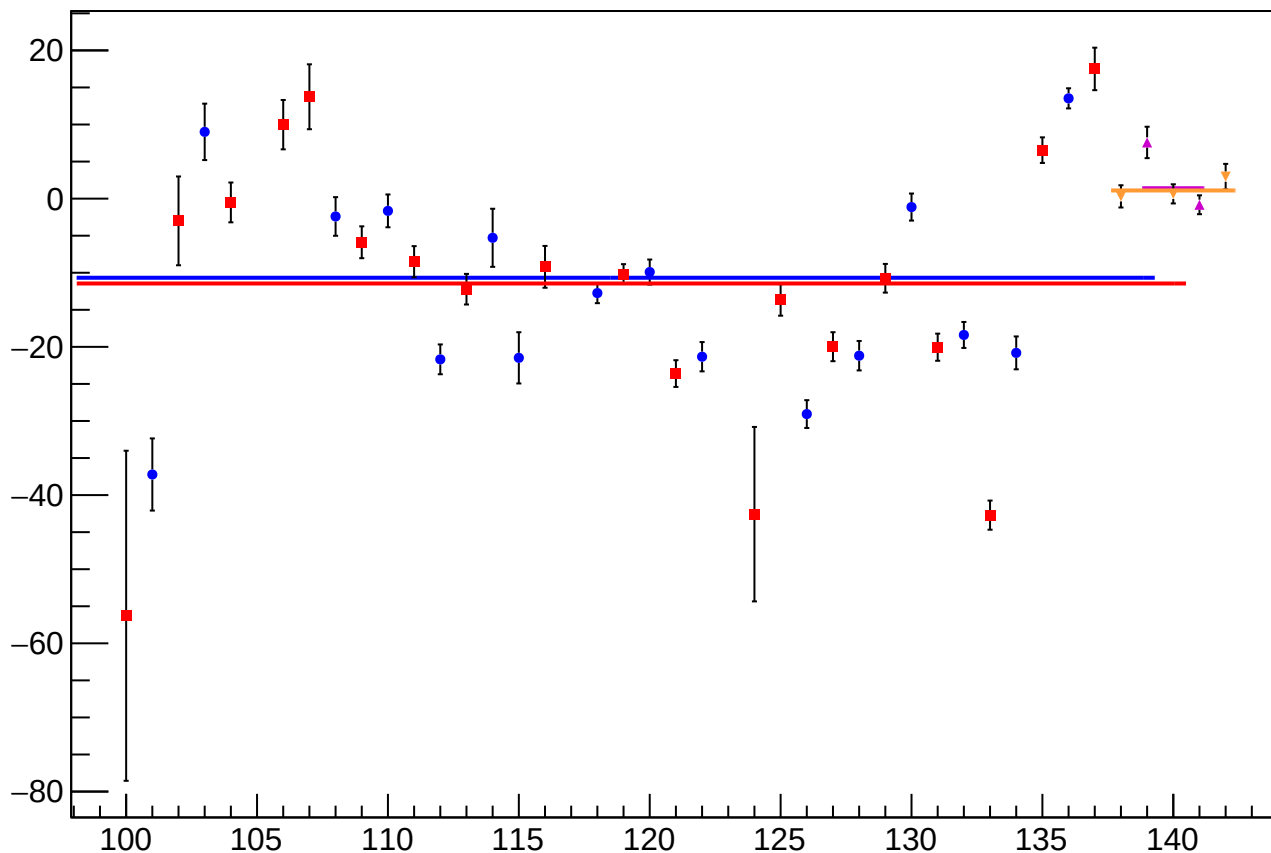
Right: -51.118 $\pm$ 0.347 χ^2 /NDF: 5355.4/34

In: -42.986 $\pm$ 0.436 χ^2 /NDF:4237.8/17

Out: -38.177 $\pm$ 0.429 χ^2 /NDF:5268.7/21

All: -40.541 $\pm$ 0.306 χ^2 /NDF: 9568.3/39

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -10.675 ± 0.505 χ^2/NDF : 666.4/15

Left Out: 1.101 ± 0.851 χ^2/NDF : 1.6/2

Right Out: -11.450 ± 0.516 χ^2/NDF : 665.7/18

Left In: 1.405 ± 1.091 χ^2/NDF : 11.6/1

Left: 1.216 ± 0.671 χ^2/NDF : 13.2/4

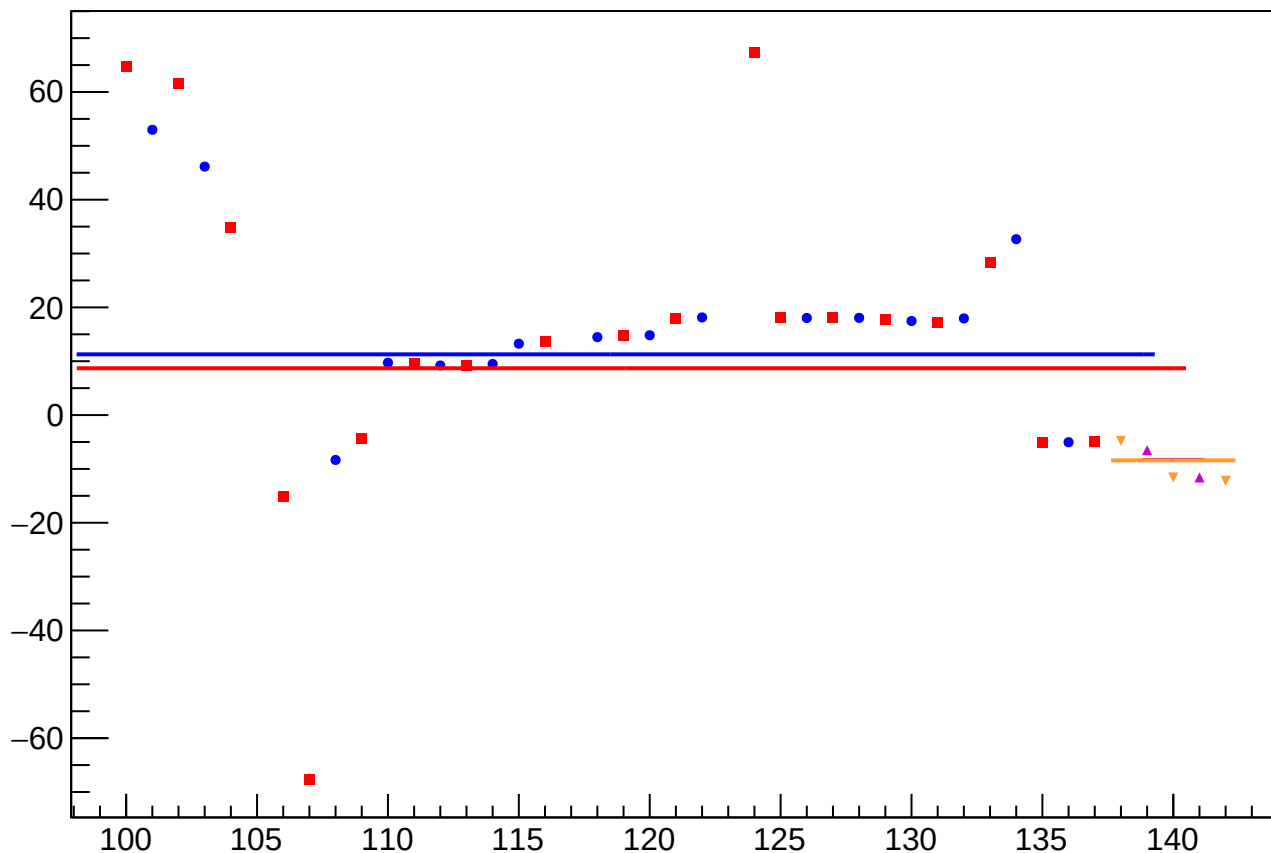
Right: -11.054 ± 0.361 χ^2/NDF : 1333.3/34

In: -8.541 ± 0.459 χ^2/NDF : 778.8/17

Out: -8.076 ± 0.441 χ^2/NDF : 826.3/21

All: -8.299 ± 0.318 χ^2/NDF : 1605.7/39

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 11.277+/-0.030 χ^2/NDF : 349346.9/15

Left Out: -8.416+/-0.036 χ^2/NDF : 9577.4/2

Right Out: 8.698+/-0.031 χ^2/NDF : 436156.0/18

Left In: -8.327+/-0.037 χ^2/NDF : 4418.5/1

Left: -8.373+/-0.026 χ^2/NDF : 13999.0/4

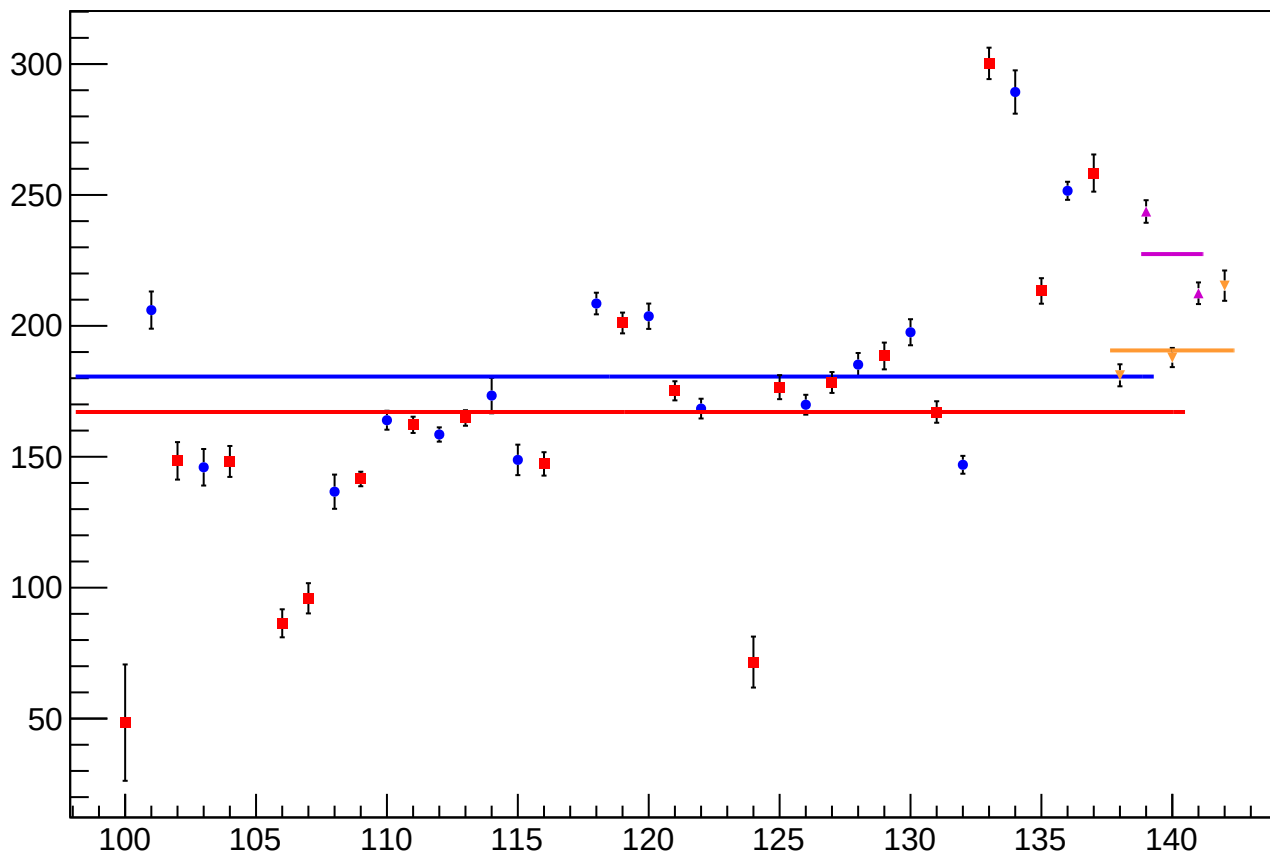
Right: 10.050+/-0.022 χ^2/NDF : 789035.8/34

In: 3.398+/-0.023 χ^2/NDF : 526269.1/17

Out: 1.223+/-0.024 χ^2/NDF : 575304.6/21

All: 2.331+/-0.017 χ^2/NDF : 1105908.9/39

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 180.634+/-1.090 χ^2/NDF : 993.4/15

Left Out: 190.614+/-2.494 χ^2/NDF : 23.9/2

Right Out: 167.102+/-1.021 χ^2/NDF : 1484.6/18

Left In: 227.422+/-2.984 χ^2/NDF : 27.3/1

Left: 205.751+/-1.913 χ^2/NDF : 140.8/4

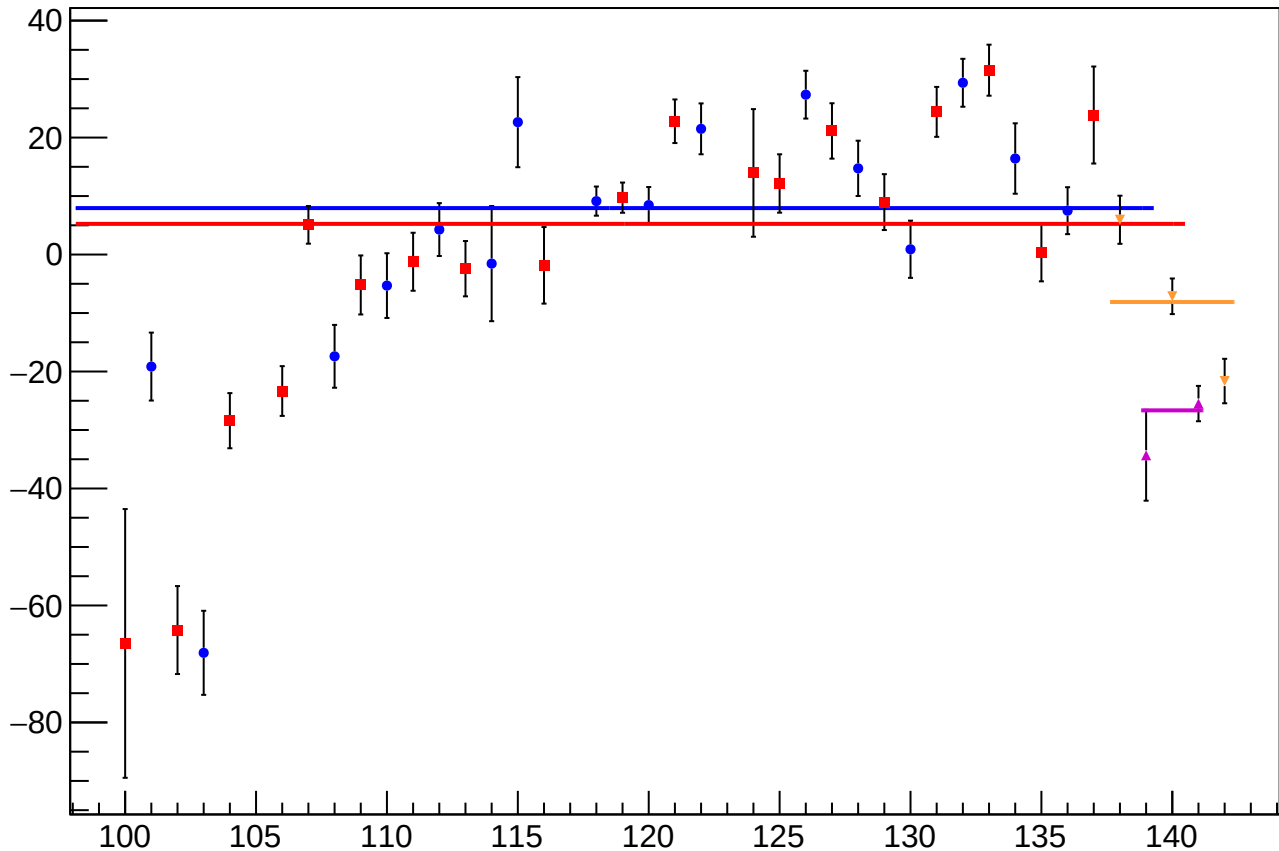
Right: 173.427+/-0.745 χ^2/NDF : 2560.1/34

In: 186.140+/-1.024 χ^2/NDF : 1237.7/17

Out: 170.476+/-0.945 χ^2/NDF : 1584.6/21

All: 177.682+/-0.694 χ^2/NDF : 2948.8/39

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.942 ± 1.113 χ^2/NDF : 232.9/15

Left Out: -8.111 ± 2.058 χ^2/NDF : 24.4/2

Right Out: 5.244 ± 1.062 χ^2/NDF : 302.9/18

Left In: -26.643 ± 2.816 χ^2/NDF : 1.1/1

Left: -14.564 ± 1.662 χ^2/NDF : 53.8/4

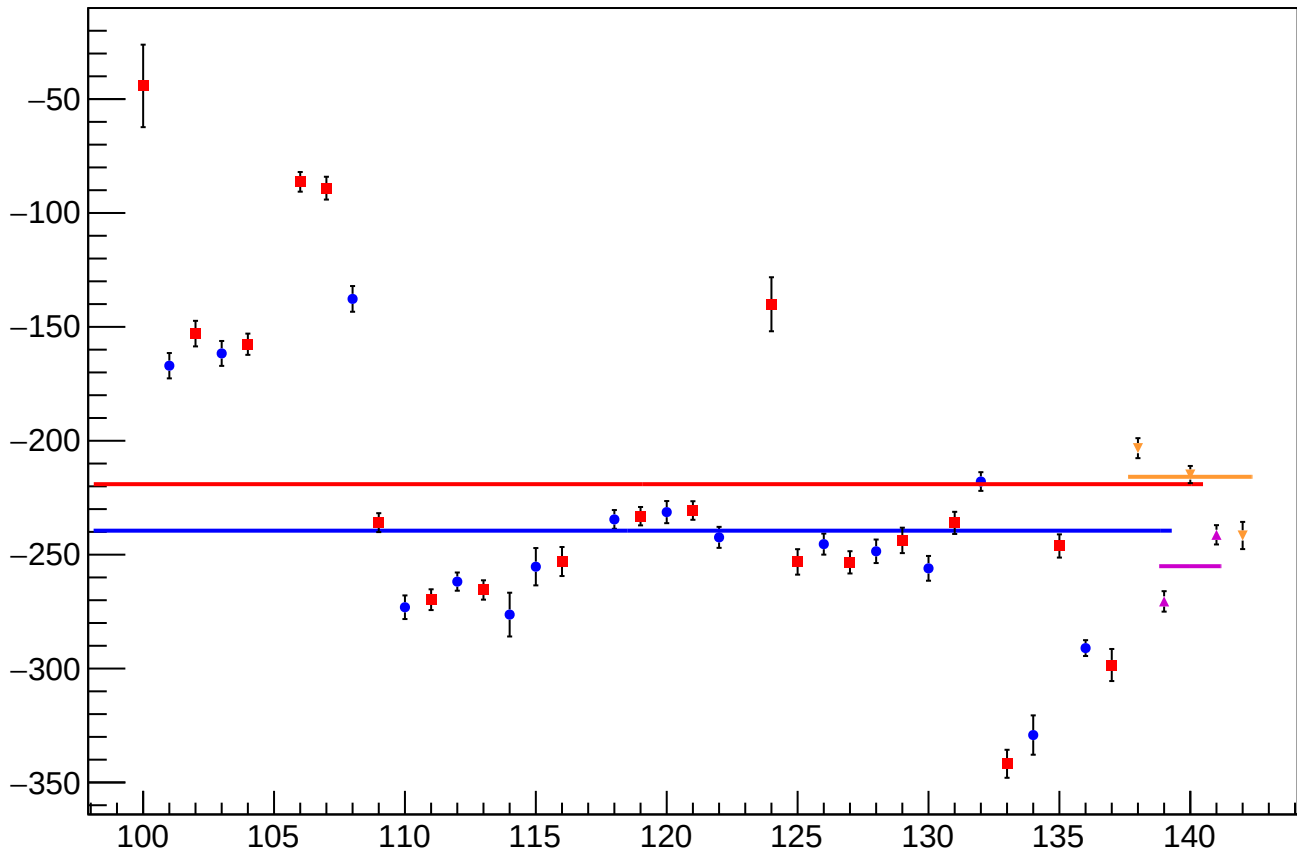
Right: 6.530 ± 0.768 χ^2/NDF : 538.9/34

In: 3.267 ± 1.035 χ^2/NDF : 364.5/17

Out: 2.435 ± 0.944 χ^2/NDF : 360.6/21

All: 2.813 ± 0.697 χ^2/NDF : 725.5/39

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -239.468+/-1.245 χ^2/NDF : 1162.2/15

Left Out: -215.819+/-2.579 χ^2/NDF : 26.9/2

Right Out: -219.053+/-1.176 χ^2/NDF : 3049.3/18

Left In: -255.062+/-3.084 χ^2/NDF : 22.4/1

Left: -231.965+/-1.978 χ^2/NDF : 144.6/4

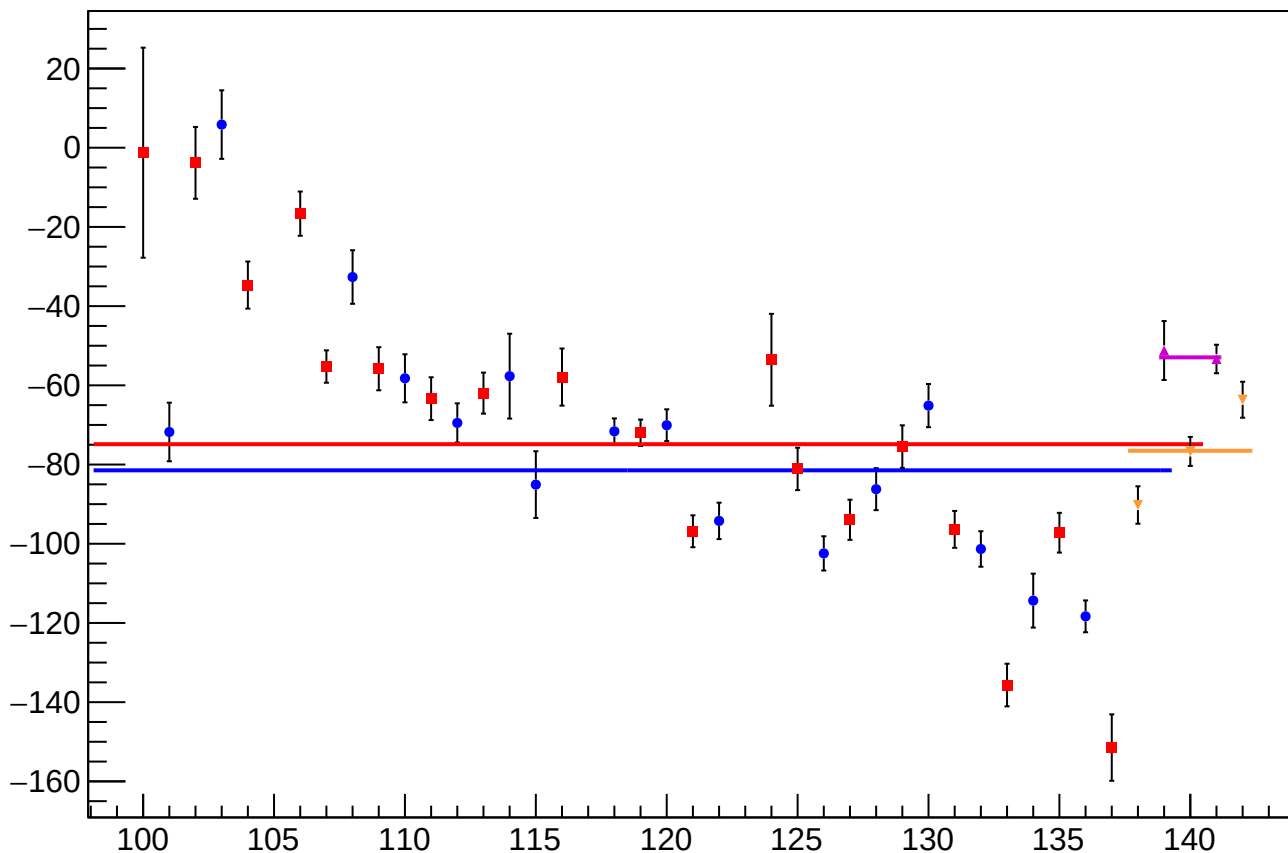
Right: -228.679+/-0.855 χ^2/NDF : 4353.5/34

In: -241.655+/-1.155 χ^2/NDF : 1206.6/17

Out: -218.496+/-1.070 χ^2/NDF : 3077.5/21

All: -229.196+/-0.785 χ^2/NDF : 4500.5/39

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -81.462 ± 1.287 $\chi^2/\text{NDF}: 366.5/15$

Left Out: -76.527 ± 2.441 $\chi^2/\text{NDF}: 16.4/2$

Right Out: -74.861 ± 1.230 $\chi^2/\text{NDF}: 576.6/18$

Left In: -52.941 ± 3.238 $\chi^2/\text{NDF}: 0.1/1$

Left: -67.980 ± 1.949 $\chi^2/\text{NDF}: 50.3/4$

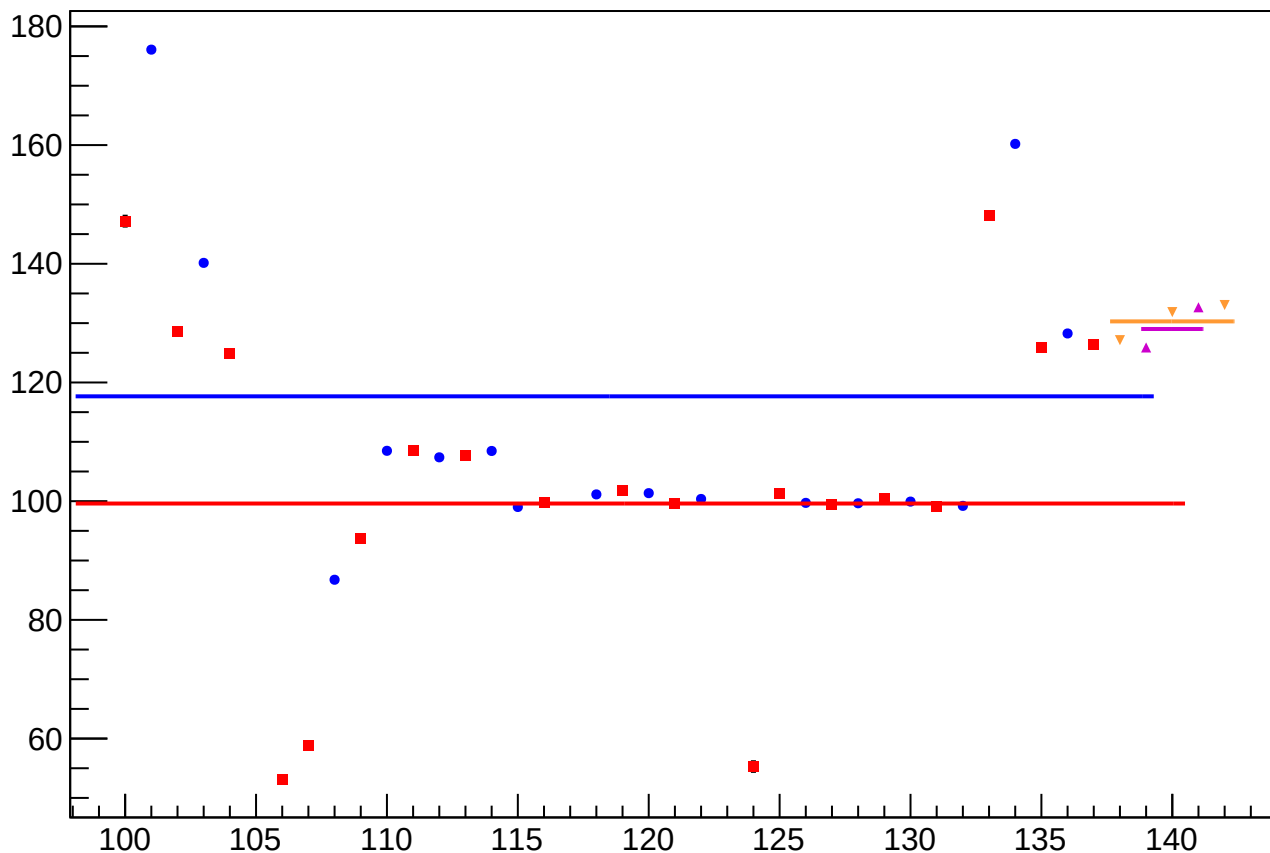
Right: -78.013 ± 0.889 $\chi^2/\text{NDF}: 956.9/34$

In: -77.572 ± 1.196 $\chi^2/\text{NDF}: 433.5/17$

Out: -75.198 ± 1.099 $\chi^2/\text{NDF}: 593.4/21$

All: -76.285 ± 0.809 $\chi^2/\text{NDF}: 1029.1/39$

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 117.666 $\pm$ 0.078 χ^2 /NDF: 95397.2/15

Left Out: 130.293 $\pm$ 0.109 χ^2 /NDF: 533.9/2

Right Out: 99.604 $\pm$ 0.070 χ^2 /NDF: 166236.0/18

Left In: 129.012 $\pm$ 0.118 χ^2 /NDF: 818.0/1

Left: 129.703 $\pm$ 0.080 χ^2 /NDF: 1415.5/4

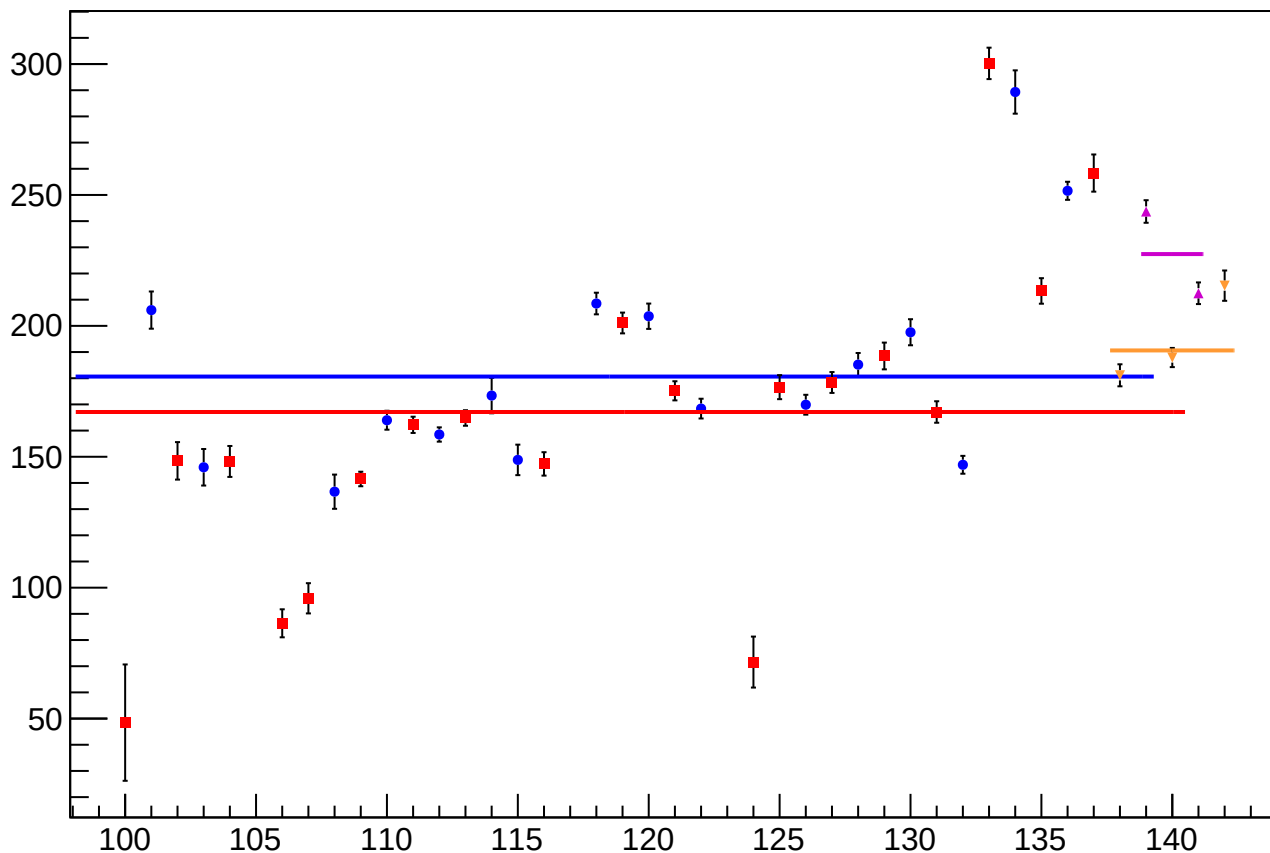
Right: 107.671 $\pm$ 0.052 χ^2 /NDF: 291112.6/34

In: 121.133 $\pm$ 0.065 χ^2 /NDF: 102638.7/17

Out: 108.612 $\pm$ 0.059 χ^2 /NDF: 222698.7/21

All: 114.257 $\pm$ 0.044 χ^2 /NDF: 345581.3/39

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 180.634 $\pm$ 1.090 χ^2 /NDF: 993.4/15

Left Out: 190.614 $\pm$ 2.494 χ^2 /NDF:23.9/2

Right Out: 167.102 $\pm$ 1.021 χ^2 /NDF: 1484.6/18

Left In: 227.422 $\pm$ 2.984 χ^2 /NDF:27.3/1

Left: 205.751 $\pm$ 1.913 χ^2 /NDF: 140.8/4

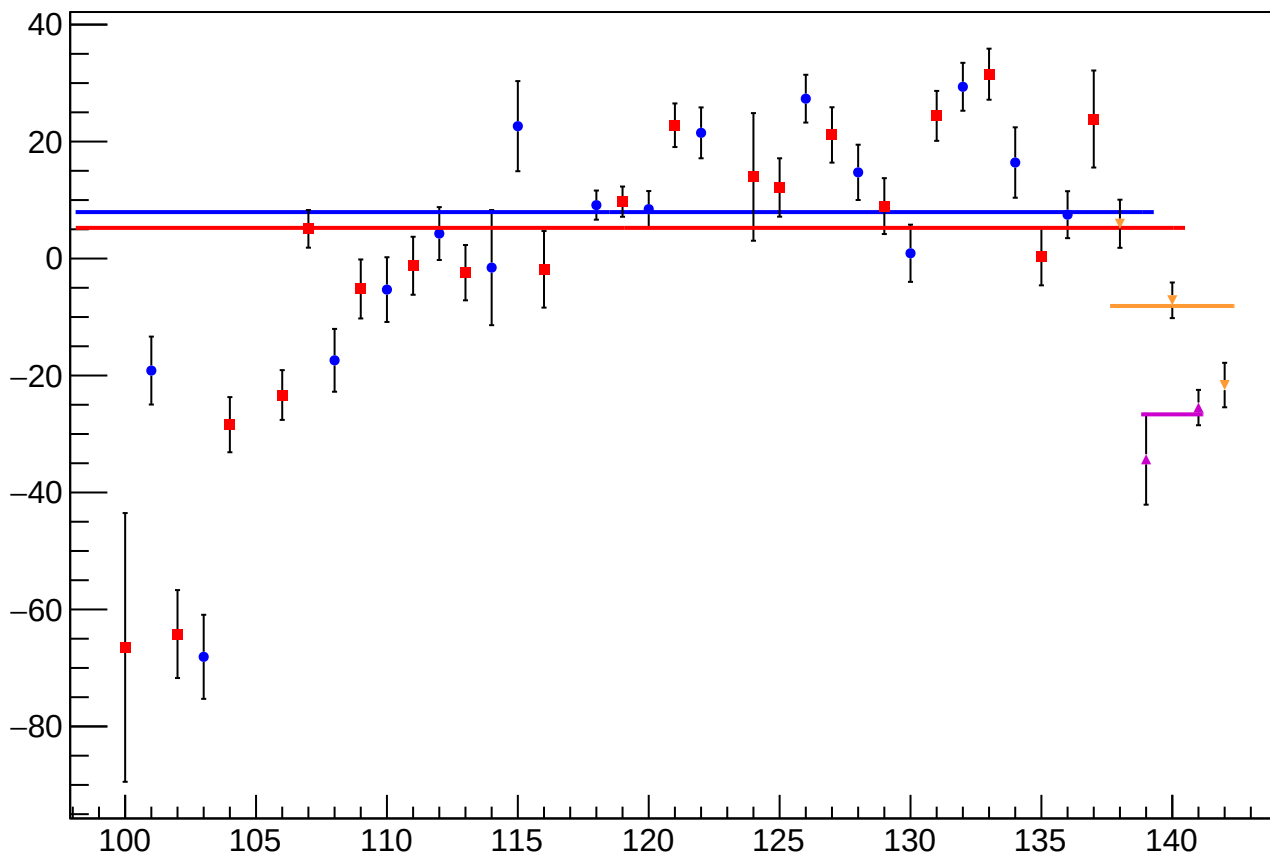
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In: 186.140 $\pm$ 1.024 χ^2 /NDF:1237.7/17

Out: 170.476 $\pm$ 0.945 χ^2 /NDF:1584.6/21

All: 177.682 $\pm$ 0.694 χ^2 /NDF: 2948.8/39

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.942 ± 1.113 χ^2/NDF : 232.9/15

Left Out: -8.111 ± 2.058 χ^2/NDF : 24.4/2

Right Out: 5.244 ± 1.062 χ^2/NDF : 302.9/18

Left In: -26.643 ± 2.816 χ^2/NDF : 1.1/1

Left: -14.564 ± 1.662 χ^2/NDF : 53.8/4

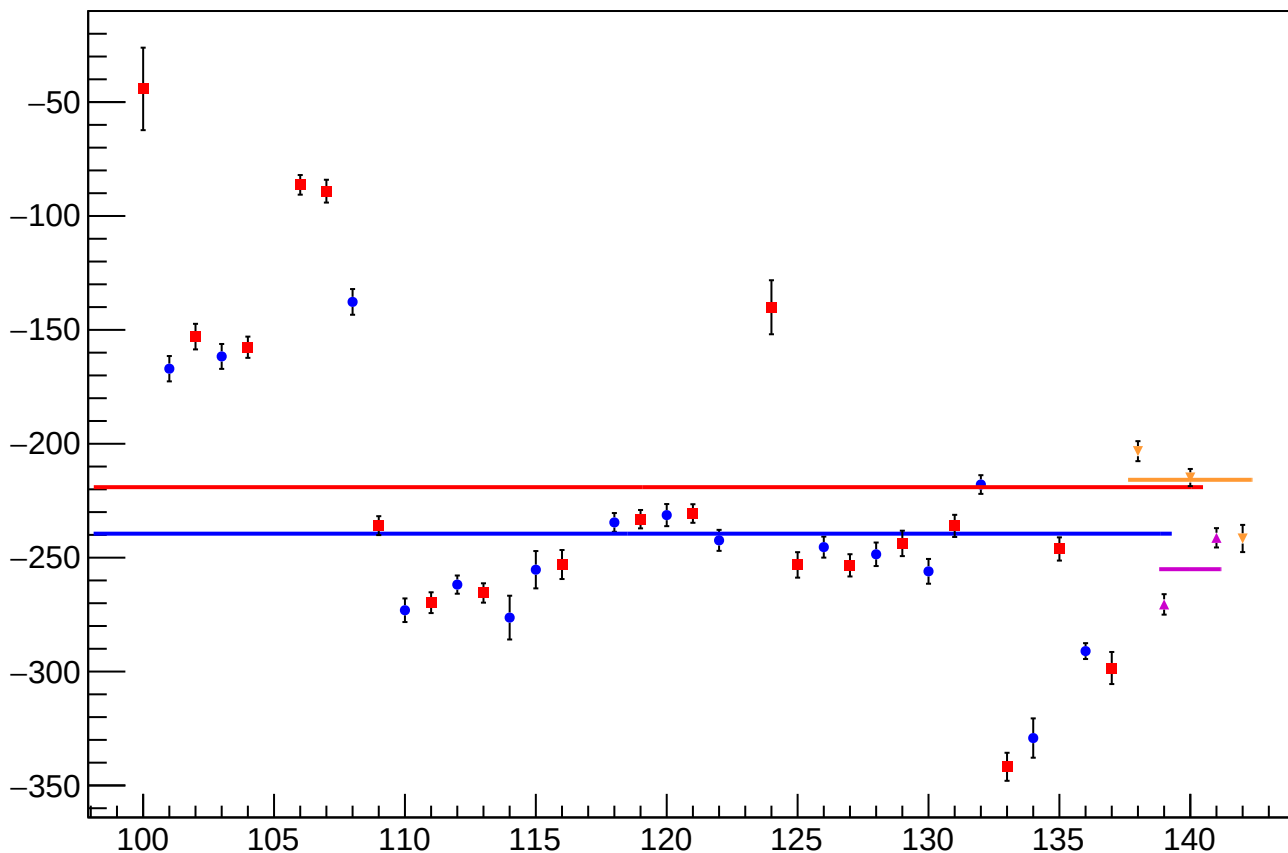
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In: 3.267 ± 1.035 χ^2/NDF : 364.5/17

Out: 2.435 ± 0.944 χ^2/NDF : 360.6/21

All: 2.813 ± 0.697 χ^2/NDF : 725.5/39

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -239.468+/-1.245 χ^2/NDF : 1162.2/15

Left Out: -215.819+/-2.579 χ^2/NDF : 26.9/2

Right Out: -219.053+/-1.176 χ^2/NDF : 3049.3/18

Left In: -255.062+/-3.084 χ^2/NDF : 22.4/1

Left: -231.965+/-1.978 χ^2/NDF : 144.6/4

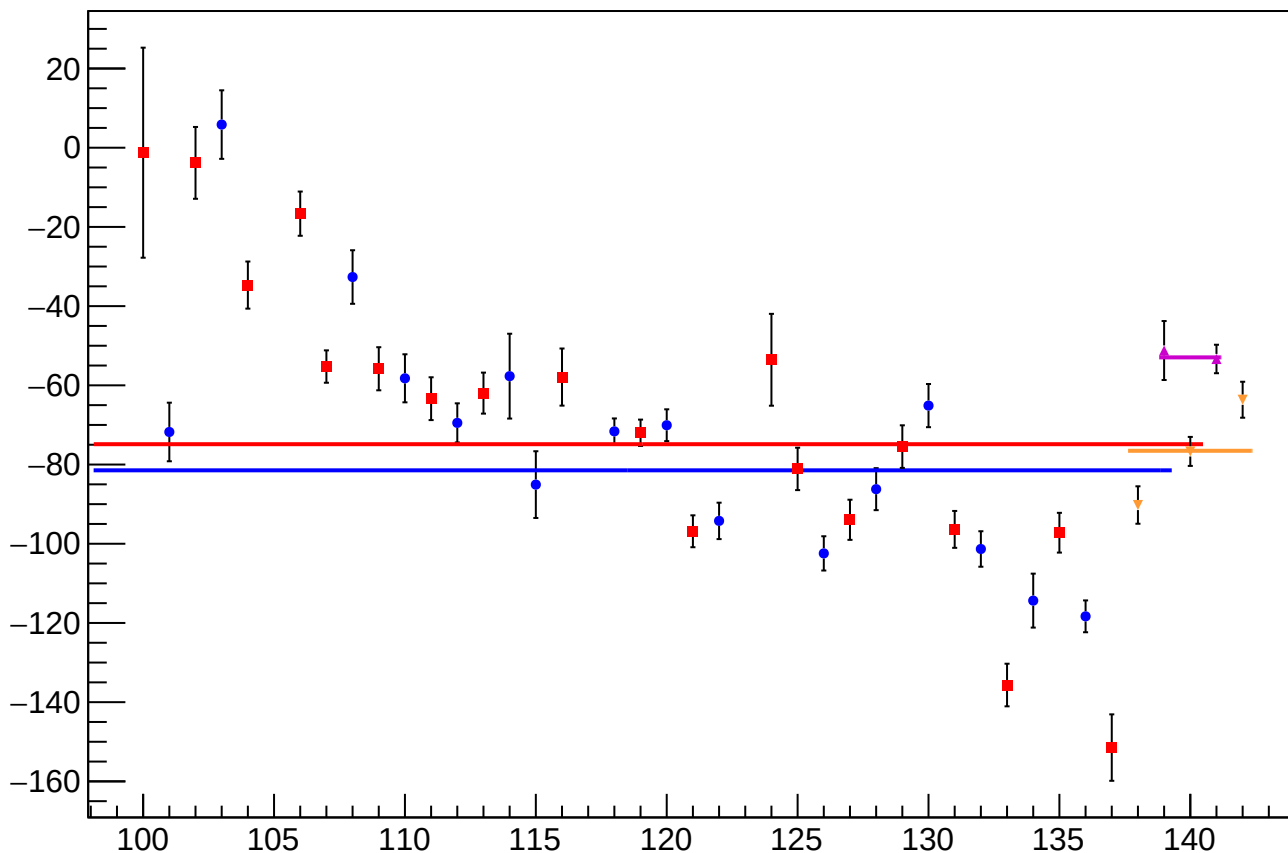
Right: -228.679+/-0.855 χ^2/NDF : 4353.5/34

In: -241.655+/-1.155 χ^2/NDF : 1206.6/17

Out: -218.496+/-1.070 χ^2/NDF : 3077.5/21

All: -229.196+/-0.785 χ^2/NDF : 4500.5/39

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -81.462 ± 1.287 $\chi^2/\text{NDF}: 366.5/15$

Left Out: -76.527 ± 2.441 $\chi^2/\text{NDF}: 16.4/2$

Right Out: -74.861 ± 1.230 $\chi^2/\text{NDF}: 576.6/18$

Left In: -52.941 ± 3.238 $\chi^2/\text{NDF}: 0.1/1$

Left: -67.980 ± 1.949 $\chi^2/\text{NDF}: 50.3/4$

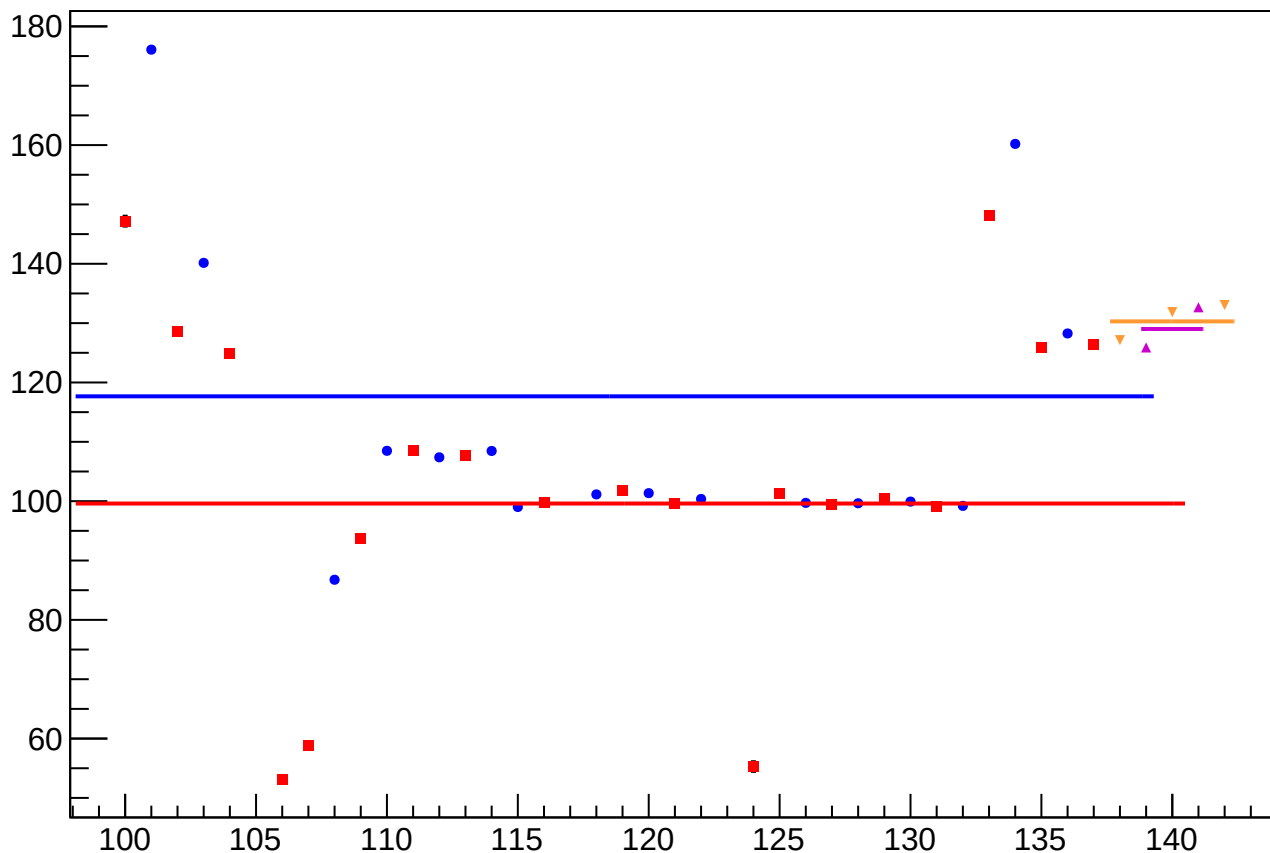
Right: -78.013 ± 0.889 $\chi^2/\text{NDF}: 956.9/34$

In: -77.572 ± 1.196 $\chi^2/\text{NDF}: 433.5/17$

Out: -75.198 ± 1.099 $\chi^2/\text{NDF}: 593.4/21$

All: -76.285 ± 0.809 $\chi^2/\text{NDF}: 1029.1/39$

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 117.666 $\pm$ 0.078 χ^2 /NDF: 95397.2/15

Left Out: 130.293 $\pm$ 0.109 χ^2 /NDF:533.9/2

Right Out: 99.604 $\pm$ 0.070 χ^2 /NDF: 166236.0/18

Left In: 129.012 $\pm$ 0.118 χ^2 /NDF:818.0/1

Left: 129.703 $\pm$ 0.080 χ^2 /NDF: 1415.5/4

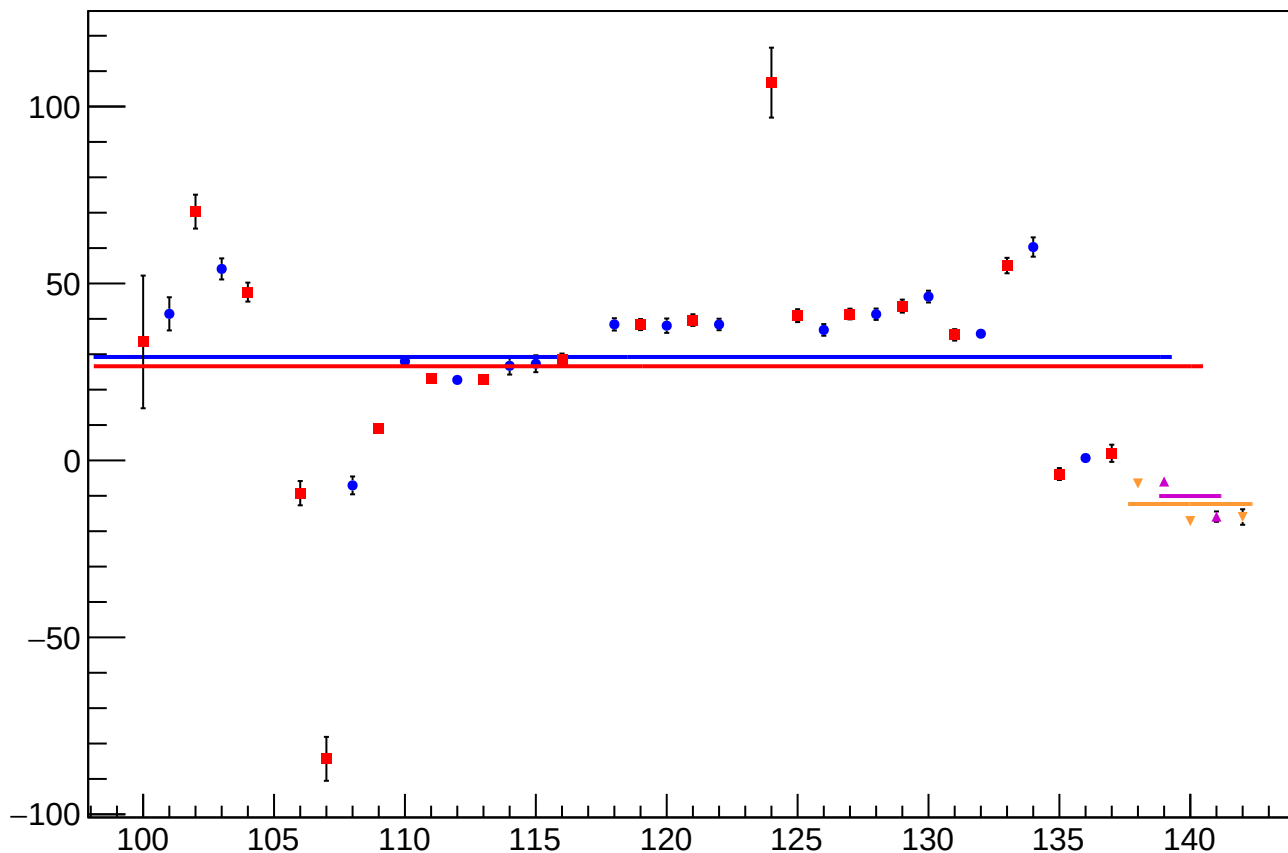
Right: 107.671 $\pm$ 0.052 χ^2 /NDF: 291112.6/34

In: 121.133 $\pm$ 0.065 χ^2 /NDF:102638.7/17

Out: 108.612 $\pm$ 0.059 χ^2 /NDF:222698.7/21

All: 114.257 $\pm$ 0.044 χ^2 /NDF: 345581.3/39

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 29.229+/-0.424 χ^2 /NDF: 1342.9/15

Left Out: -12.312+/-0.832 χ^2 /NDF:38.2/2

Right Out: 26.609+/-0.414 χ^2 /NDF: 1920.6/18

Left In: -10.061+/-0.939 χ^2 /NDF:27.1/1

Left: -11.321+/-0.623 χ^2 /NDF: 68.5/4

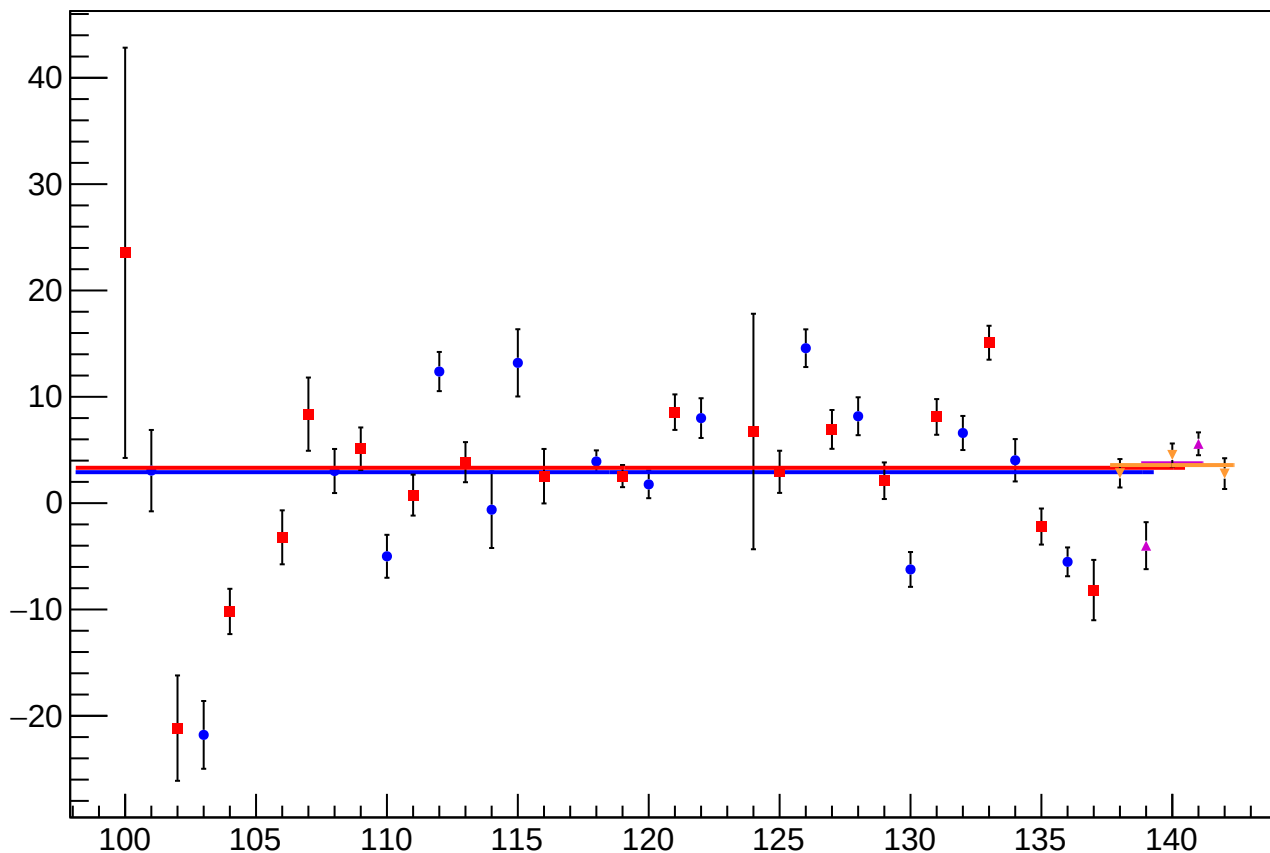
Right: 27.887+/-0.296 χ^2 /NDF: 3283.1/34

In: 22.562+/-0.387 χ^2 /NDF:2825.1/17

Out: 18.885+/-0.371 χ^2 /NDF:3711.9/21

All: 20.647+/-0.268 χ^2 /NDF: 6584.2/39

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.912 ± 0.442 χ^2/NDF : 250.0/15

Left Out: 3.581 ± 0.727 χ^2/NDF : 1.4/2

Right Out: 3.326 ± 0.454 χ^2/NDF : 181.8/18

Left In: 3.750 ± 0.966 χ^2/NDF : 15.2/1

Left: 3.642 ± 0.581 χ^2/NDF : 16.6/4

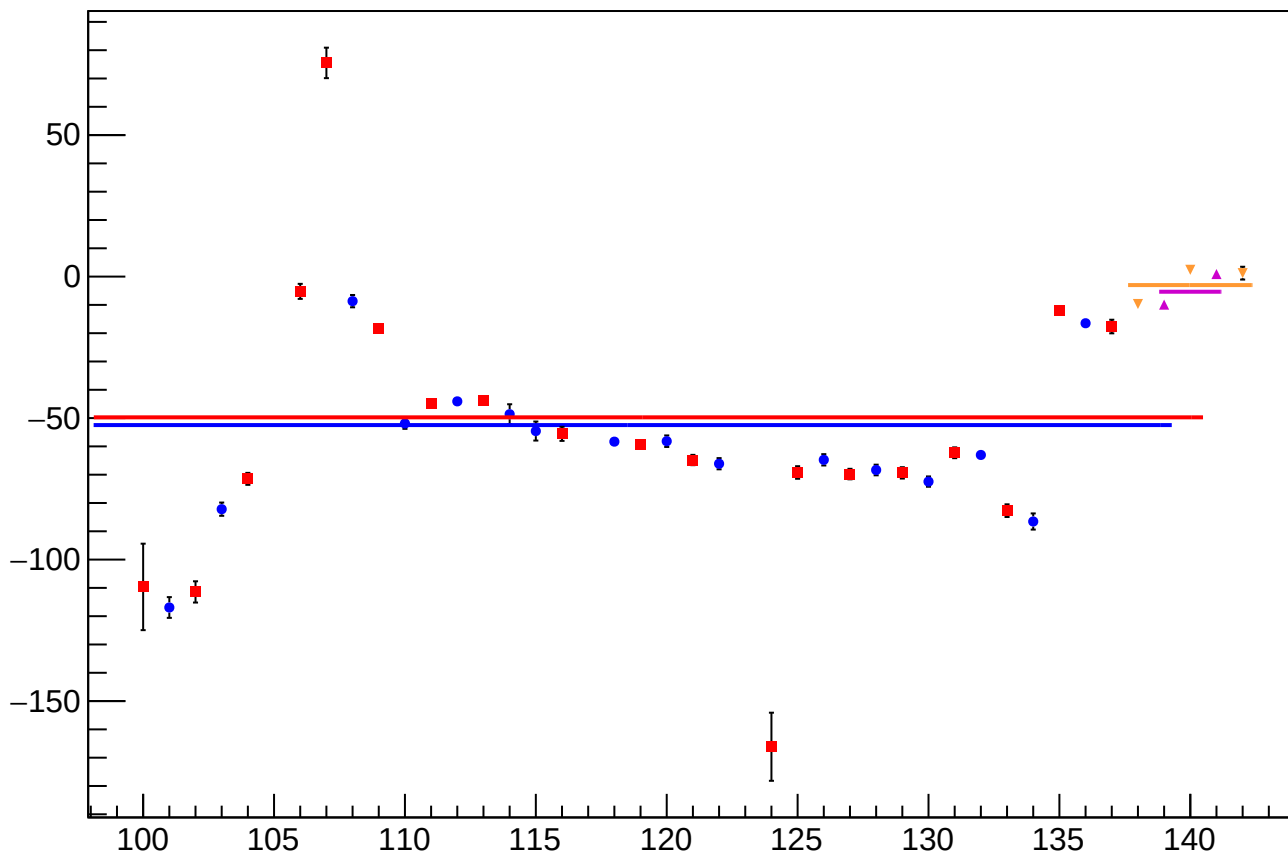
Right: 3.114 ± 0.317 χ^2/NDF : 432.2/34

In: 3.058 ± 0.402 χ^2/NDF : 265.8/17

Out: 3.397 ± 0.385 χ^2/NDF : 183.3/21

All: 3.235 ± 0.278 χ^2/NDF : 449.4/39

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.467 ± 0.488 $\chi^2/\text{NDF}: 2330.2/15$

Left Out: -2.997 ± 0.862 $\chi^2/\text{NDF}: 46.1/2$

Right Out: -49.734 ± 0.494 $\chi^2/\text{NDF}: 3009.7/18$

Left In: -5.351 ± 0.972 $\chi^2/\text{NDF}: 30.1/1$

Left: -4.034 ± 0.645 $\chi^2/\text{NDF}: 79.5/4$

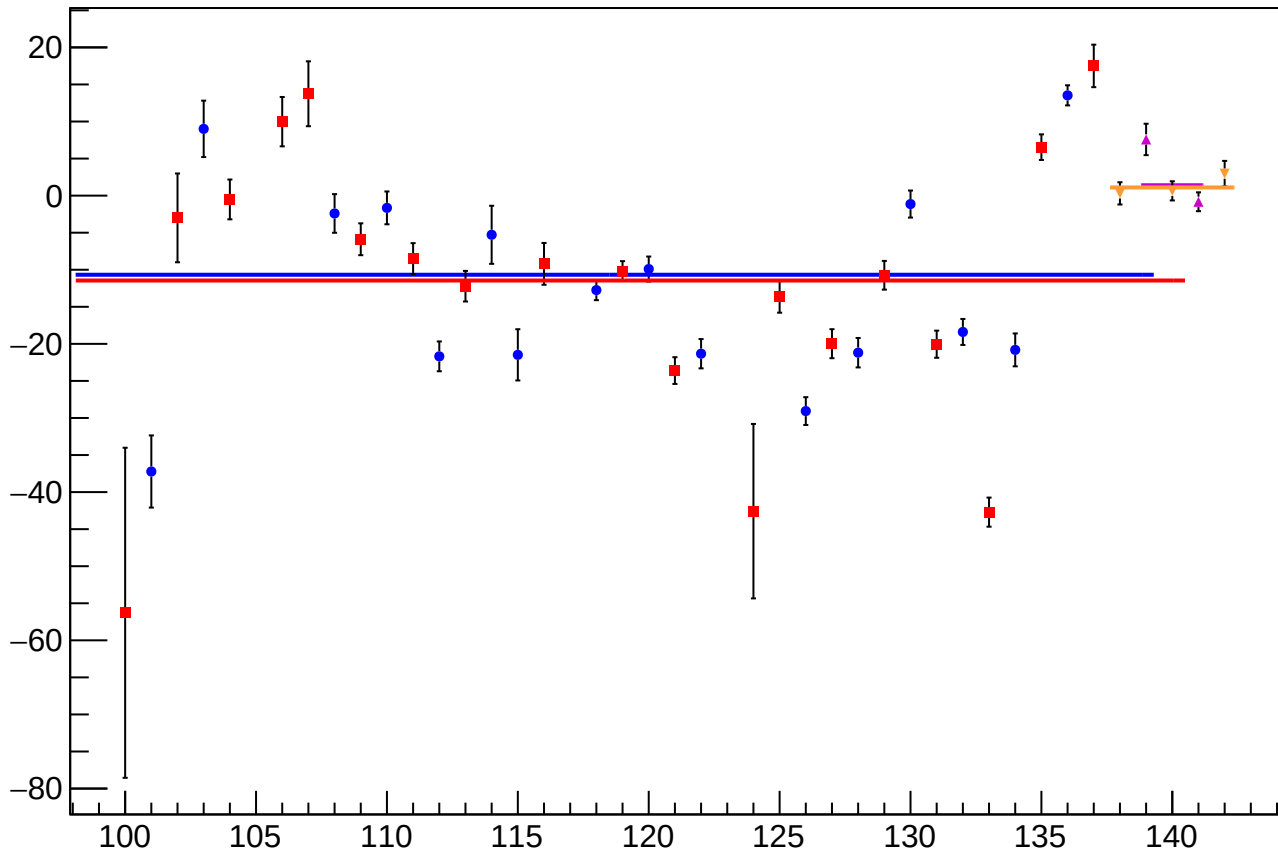
Right: -51.118 ± 0.347 $\chi^2/\text{NDF}: 5355.4/34$

In: -42.986 ± 0.436 $\chi^2/\text{NDF}: 4237.8/17$

Out: -38.177 ± 0.429 $\chi^2/\text{NDF}: 5268.7/21$

All: -40.541 ± 0.306 $\chi^2/\text{NDF}: 9568.3/39$

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -10.675 ± 0.505 χ^2/NDF : 666.4/15

Left Out: 1.101 ± 0.851 χ^2/NDF : 1.6/2

Right Out: -11.450 ± 0.516 χ^2/NDF : 665.7/18

Left In: 1.405 ± 1.091 χ^2/NDF : 11.6/1

Left: 1.216 ± 0.671 χ^2/NDF : 13.2/4

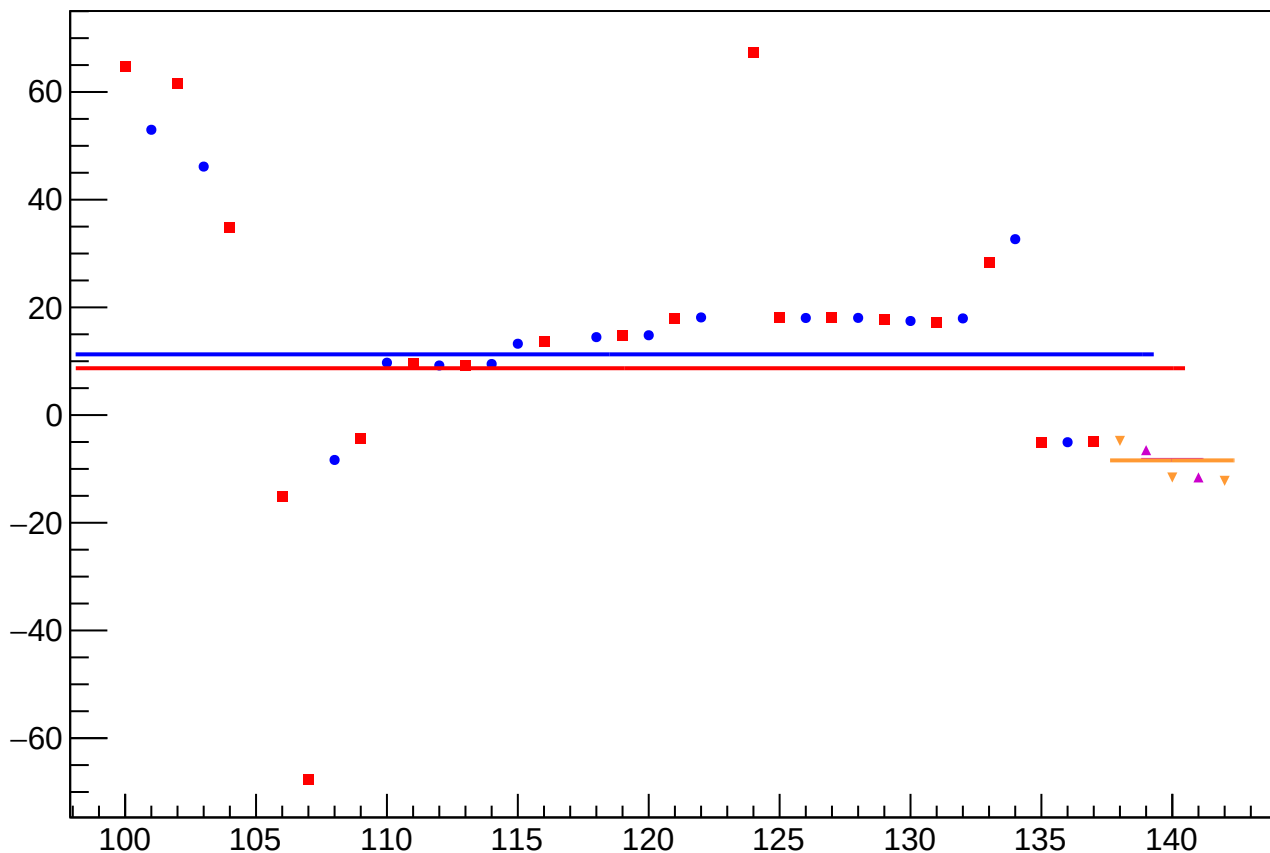
Right: -11.054 ± 0.361 χ^2/NDF : 1333.3/34

In: -8.541 ± 0.459 χ^2/NDF : 778.8/17

Out: -8.076 ± 0.441 χ^2/NDF : 826.3/21

All: -8.299 ± 0.318 χ^2/NDF : 1605.7/39

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 11.277+/-0.030 χ^2/NDF : 349346.9/15

Left Out: -8.416+/-0.036 χ^2/NDF : 9577.4/2

Right Out: 8.698+/-0.031 χ^2/NDF : 436156.0/18

Left In: -8.327+/-0.037 χ^2/NDF : 4418.5/1

Left: -8.373+/-0.026 χ^2/NDF : 13999.0/4

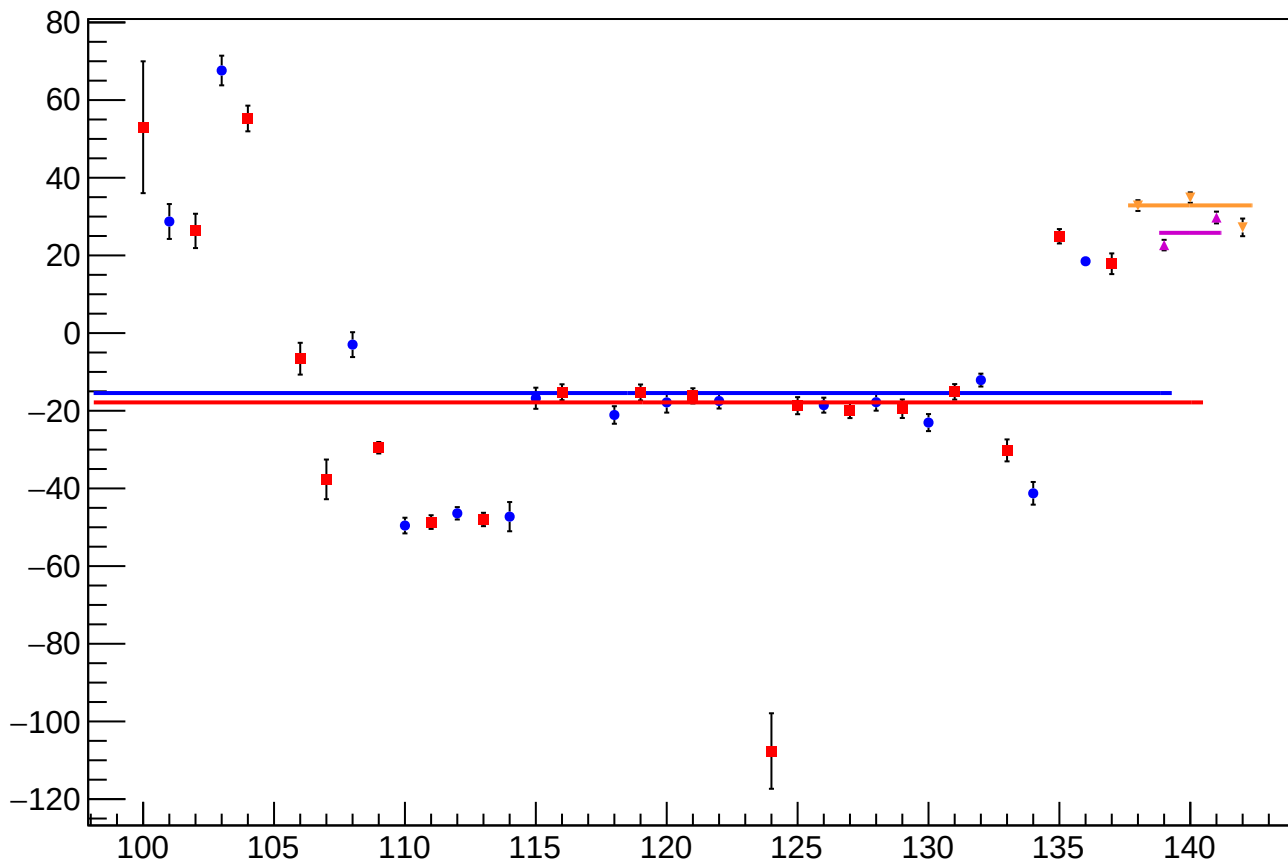
Right: 10.050+/-0.022 χ^2/NDF : 789035.8/34

In: 3.398+/-0.023 χ^2/NDF : 526269.1/17

Out: 1.223+/-0.024 χ^2/NDF : 575304.6/21

All: 2.331+/-0.017 χ^2/NDF : 1105908.9/39

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.438 ± 0.539 χ^2/NDF : 2124.2/15

Left Out: 32.881 ± 0.887 χ^2/NDF : 8.5/2

Right Out: -17.848 ± 0.530 χ^2/NDF : 2125.2/18

Left In: 25.816 ± 1.011 χ^2/NDF : 12.2/1

Left: 29.809 ± 0.667 χ^2/NDF : 48.2/4

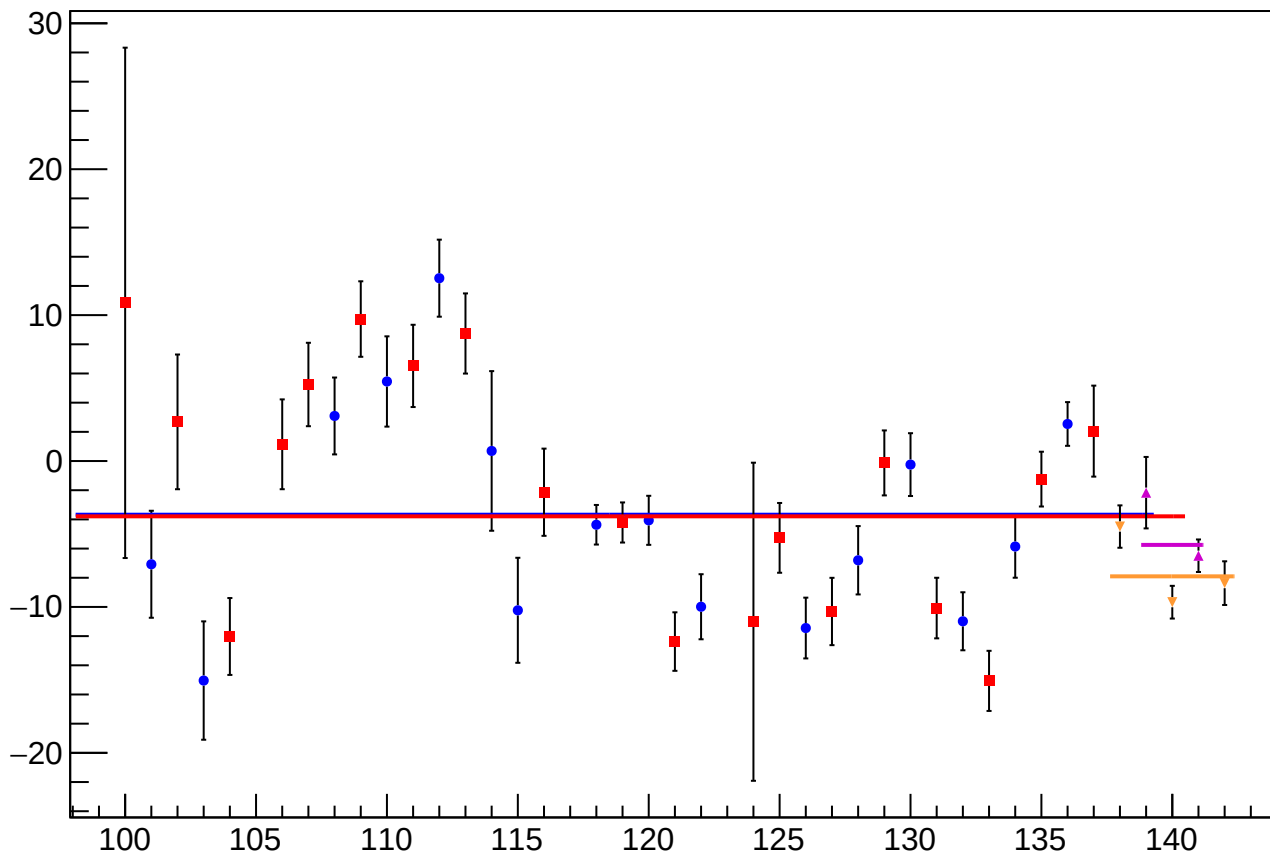
Right: -16.664 ± 0.378 χ^2/NDF : 4259.6/34

In: -6.311 ± 0.476 χ^2/NDF : 3432.3/17

Out: -4.516 ± 0.455 χ^2/NDF : 4544.7/21

All: -5.373 ± 0.329 χ^2/NDF : 7984.4/39

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.679 ± 0.552 χ^2/NDF : 124.0/15

Left Out: -7.903 ± 0.763 χ^2/NDF : 8.1/2

Right Out: -3.790 ± 0.564 χ^2/NDF : 161.2/18

Left In: -5.748 ± 1.015 χ^2/NDF : 2.6/1

Left: -7.124 ± 0.610 χ^2/NDF : 13.6/4

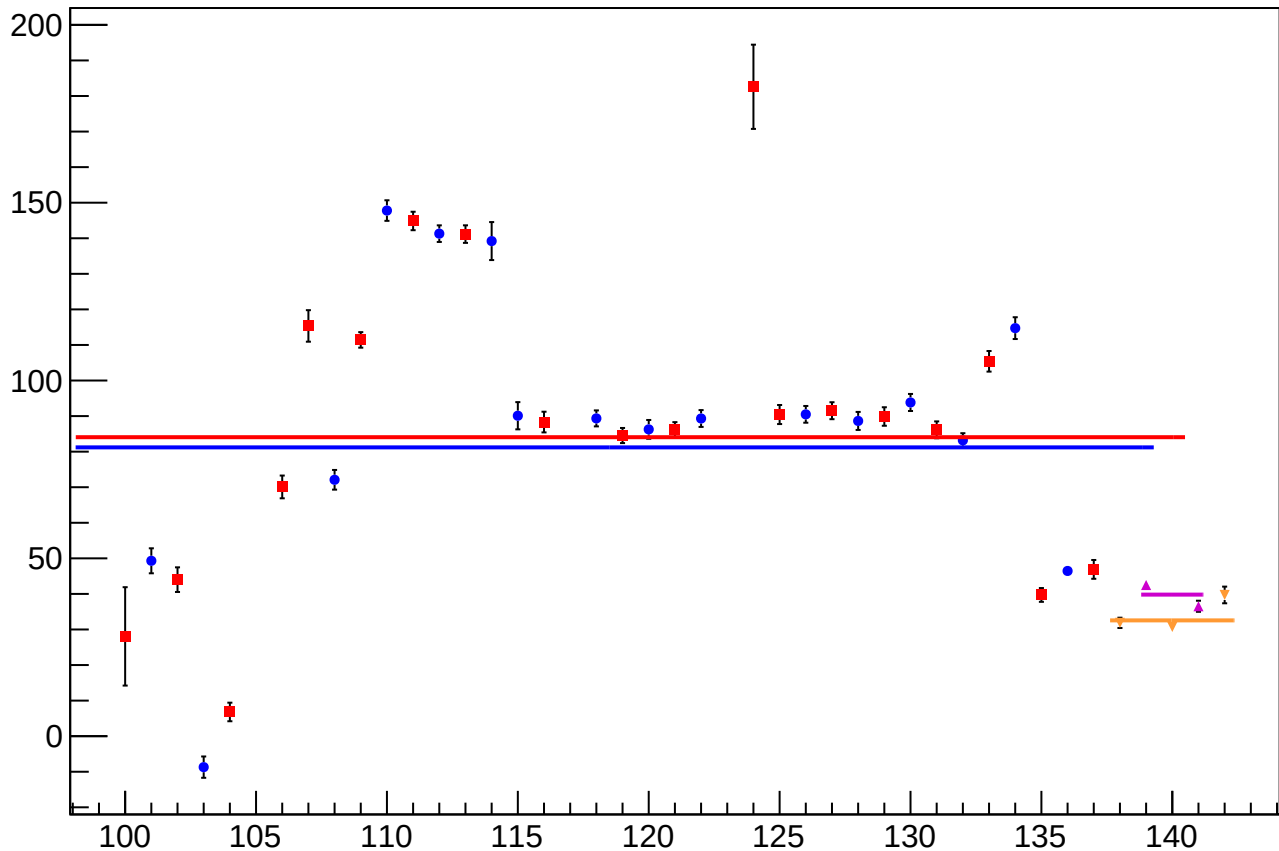
Right: -3.734 ± 0.394 χ^2/NDF : 285.2/34

In: -4.152 ± 0.485 χ^2/NDF : 129.8/17

Out: -5.241 ± 0.453 χ^2/NDF : 188.1/21

All: -4.733 ± 0.331 χ^2/NDF : 320.6/39

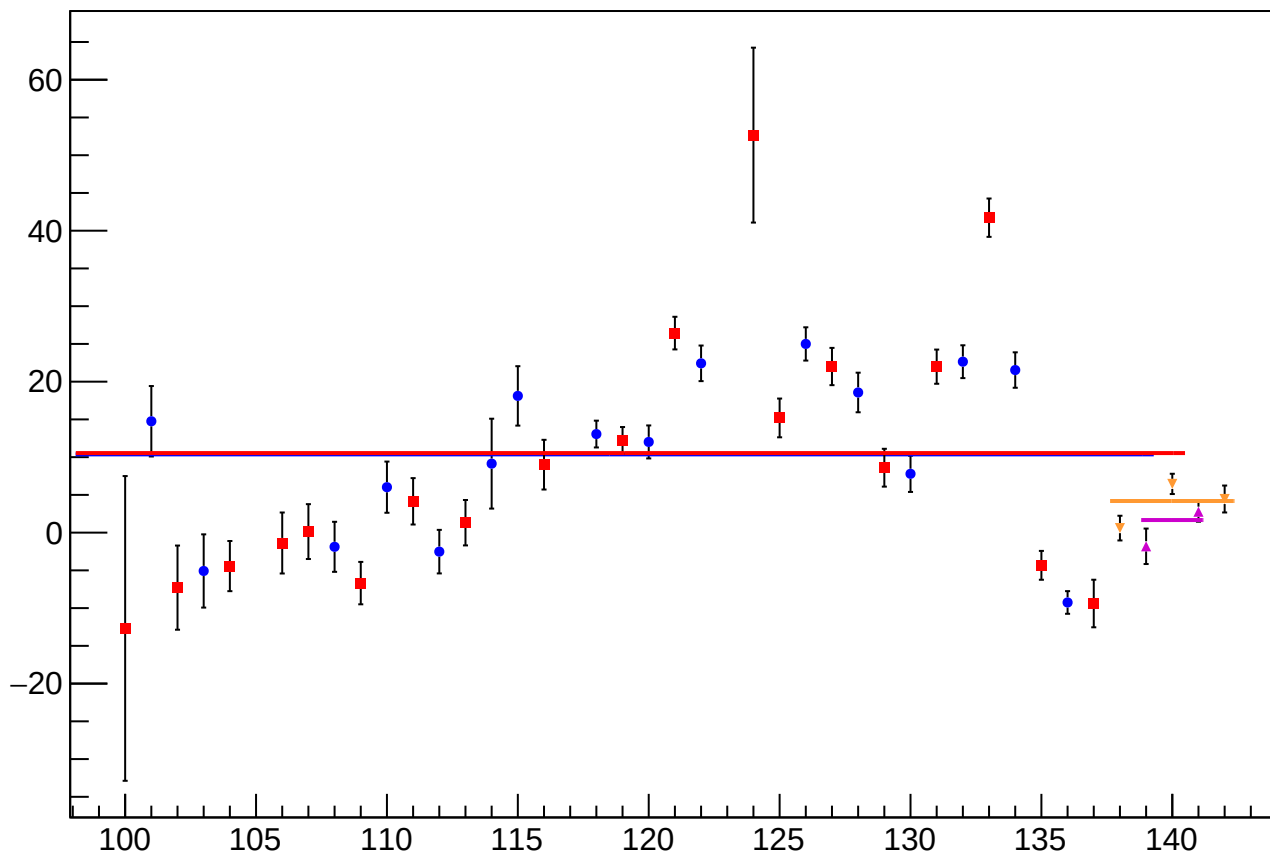
reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 81.203+/-0.607 χ^2/NDF : 3230.5/15
 Left Out: 32.556+/-0.918 χ^2/NDF : 11.3/2
 Right Out: 84.065+/-0.616 χ^2/NDF : 3206.5/18
 Left In: 39.803+/-1.047 χ^2/NDF : 8.1/1

Left: 35.708+/-0.690 χ^2/NDF : 46.5/4
 Right: 82.612+/-0.432 χ^2/NDF : 6447.9/34
 In: 70.780+/-0.525 χ^2/NDF : 4409.5/17
 Out: 68.069+/-0.512 χ^2/NDF : 5387.2/21
 All: 69.390+/-0.366 χ^2/NDF : 9810.4/39

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.367 $\pm$ 0.627 χ^2 /NDF: 359.8/15

Left Out: 4.190 $\pm$ 0.897 χ^2 /NDF: 7.7/2

Right Out: 10.539 $\pm$ 0.640 χ^2 /NDF: 470.7/18

Left In: 1.668 $\pm$ 1.152 χ^2 /NDF: 2.9/1

Left: 3.238 $\pm$ 0.708 χ^2 /NDF: 13.6/4

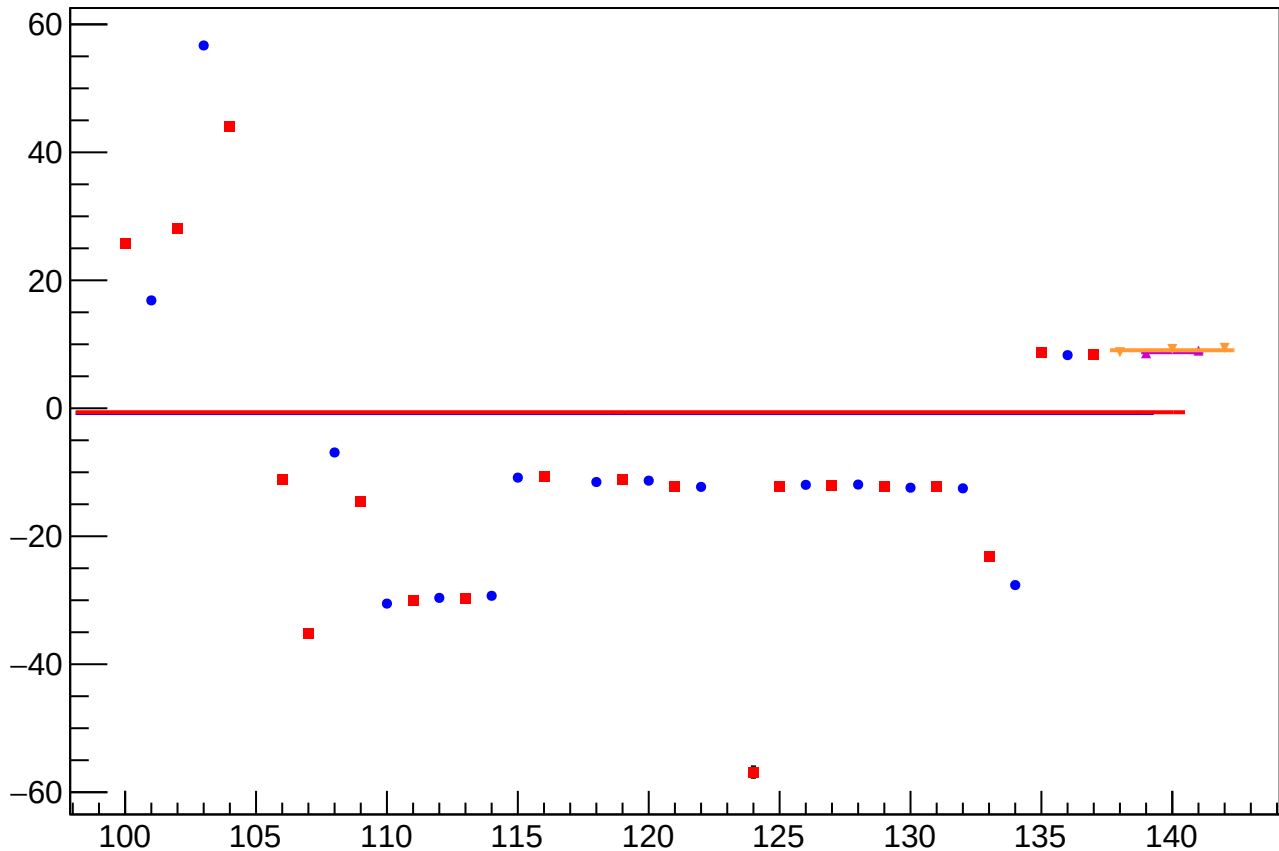
Right: 10.451 $\pm$ 0.448 χ^2 /NDF: 830.5/34

In: 8.381 $\pm$ 0.550 χ^2 /NDF: 406.7/17

Out: 8.396 $\pm$ 0.521 χ^2 /NDF: 511.6/21

All: 8.389 $\pm$ 0.378 χ^2 /NDF: 918.3/39

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.745 ± 0.036 χ^2/NDF : 367993.9/15

Left Out: 9.070 ± 0.038 χ^2/NDF : 55.7/2

Right Out: -0.618 ± 0.037 χ^2/NDF : 316492.6/18

Left In: 8.764 ± 0.039 χ^2/NDF : 26.2/1

Left: 8.922 ± 0.027 χ^2/NDF : 113.0/4

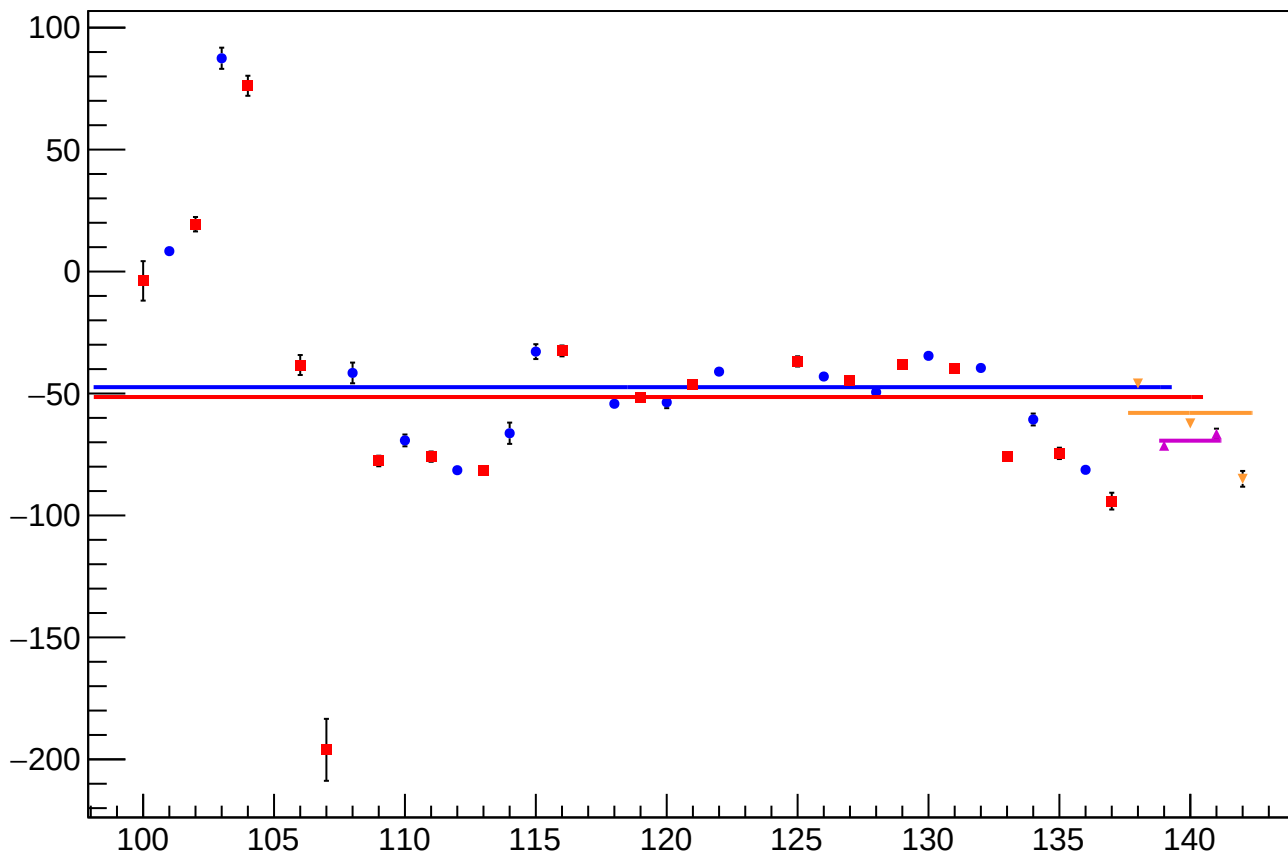
Right: -0.684 ± 0.026 χ^2/NDF : 684492.5/34

In: 3.554 ± 0.027 χ^2/NDF : 399775.3/17

Out: 4.115 ± 0.027 χ^2/NDF : 349450.0/21

All: 3.833 ± 0.019 χ^2/NDF : 749446.7/39

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -47.398 ± 0.535 $\chi^2/\text{NDF}: 2769.0/15$

Left Out: -57.953 ± 1.197 $\chi^2/\text{NDF}: 121.2/2$

Right Out: -51.442 ± 0.545 $\chi^2/\text{NDF}: 2872.7/17$

Left In: -69.345 ± 1.374 $\chi^2/\text{NDF}: 3.1/1$

Left: -62.870 ± 0.903 $\chi^2/\text{NDF}: 163.4/4$

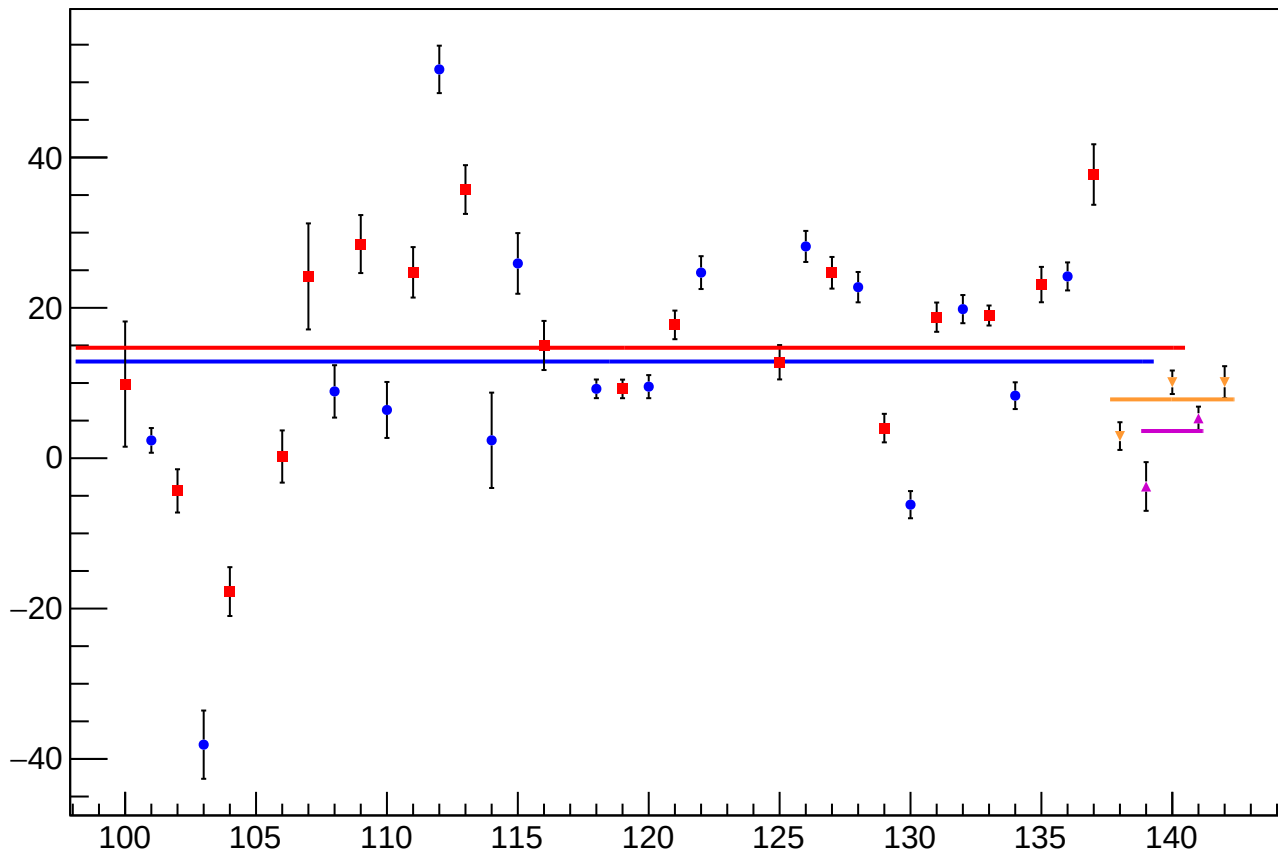
Right: -49.383 ± 0.382 $\chi^2/\text{NDF}: 5669.8/33$

In: -50.288 ± 0.499 $\chi^2/\text{NDF}: 2993.6/17$

Out: -52.560 ± 0.496 $\chi^2/\text{NDF}: 3018.5/20$

All: -51.430 ± 0.352 $\chi^2/\text{NDF}: 6022.5/38$

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.860 $\pm$ 0.519 χ^2 /NDF: 625.5/15

Left Out: 7.822 $\pm$ 1.040 χ^2 /NDF:10.3/2

Right Out: 14.691 $\pm$ 0.544 χ^2 /NDF: 364.1/17

Left In: 3.618 $\pm$ 1.398 χ^2 /NDF:6.4/1

Left: 6.324 $\pm$ 0.835 χ^2 /NDF: 22.5/4

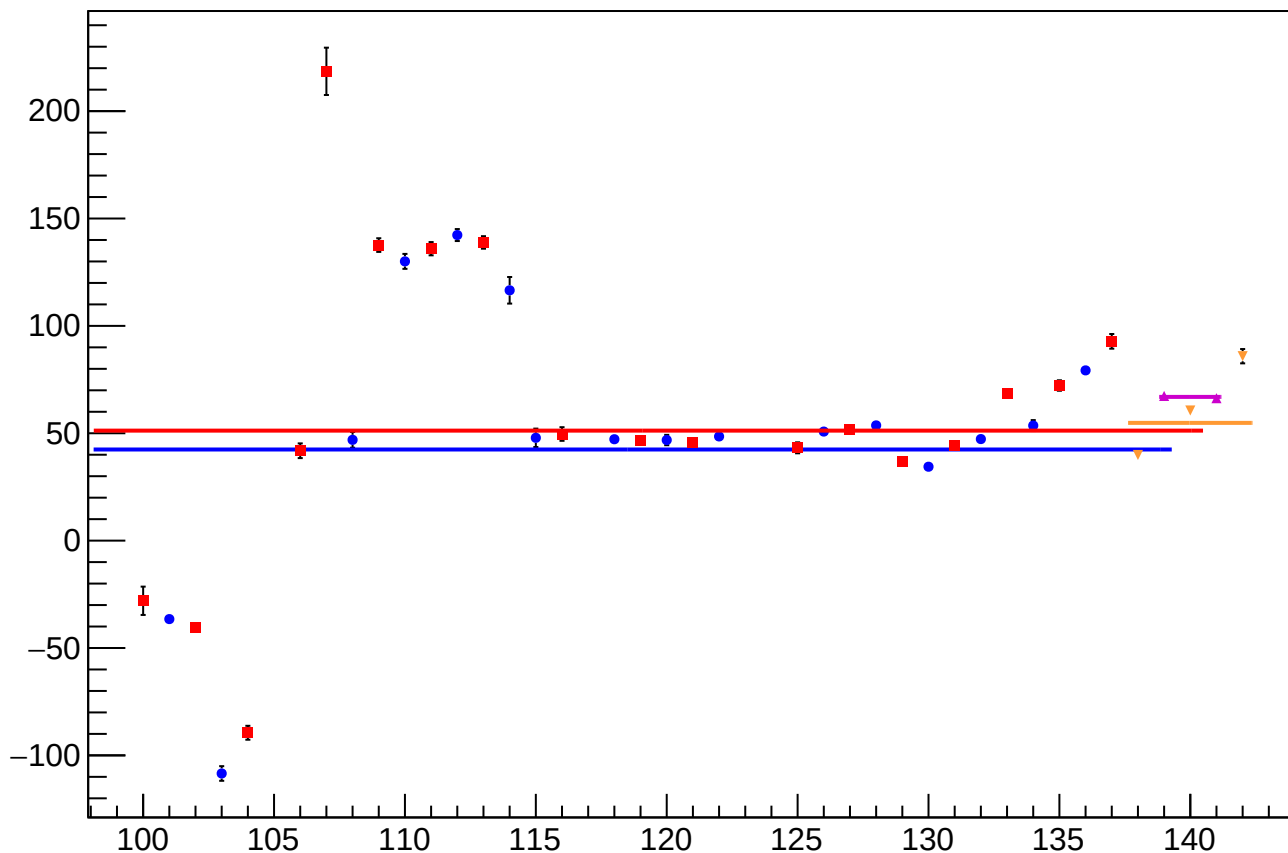
Right: 13.731 $\pm$ 0.375 χ^2 /NDF: 995.5/33

In: 11.742 $\pm$ 0.486 χ^2 /NDF:670.3/17

Out: 13.214 $\pm$ 0.482 χ^2 /NDF:408.6/20

All: 12.484 $\pm$ 0.342 χ^2 /NDF: 1083.5/38

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 42.437+/-0.584 χ^2/NDF : 7168.9/15

Left Out: 54.832+/-1.240 χ^2/NDF :160.8/2

Right Out: 51.226+/-0.615 χ^2/NDF : 6611.3/17

Left In: 66.929+/-1.423 χ^2/NDF :0.1/1

Left: 60.053+/-0.935 χ^2/NDF : 202.0/4

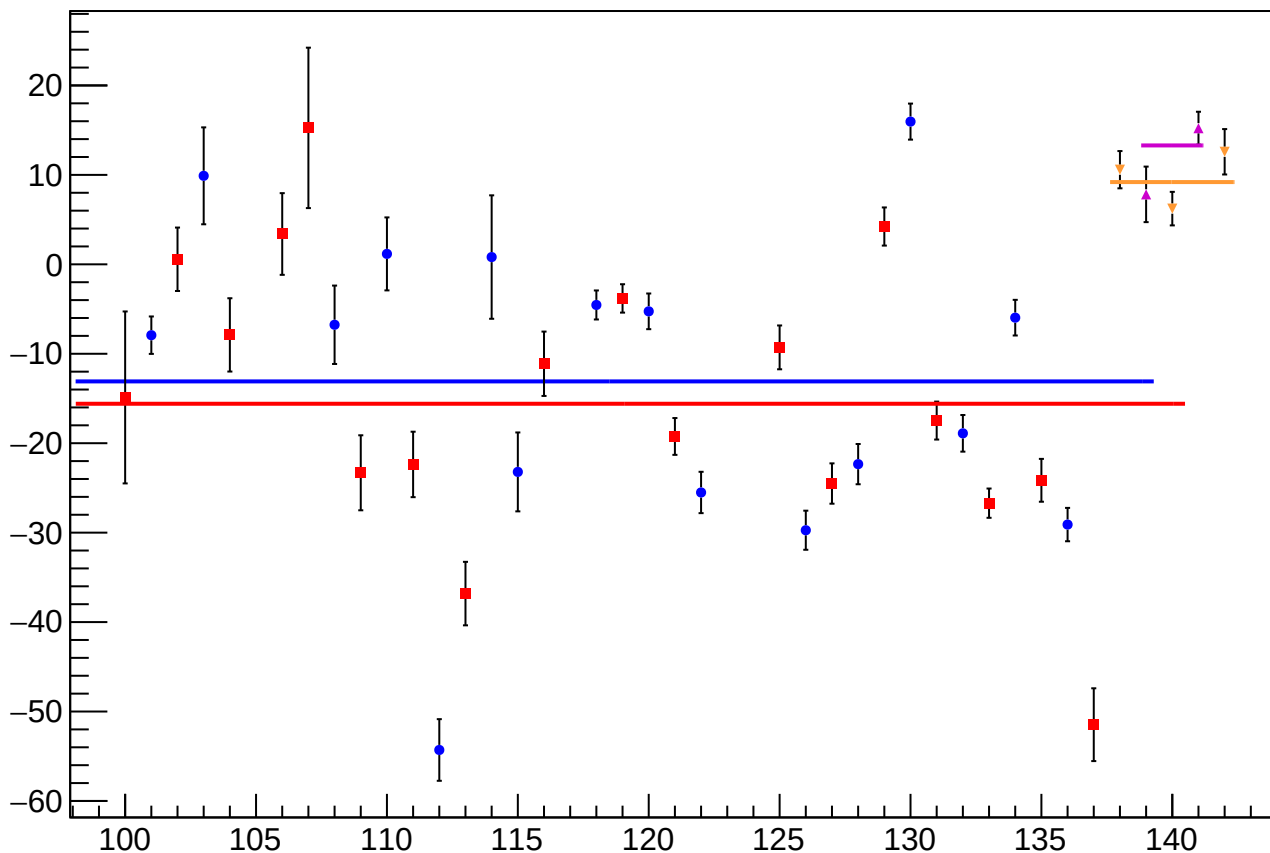
Right: 46.608+/-0.424 χ^2/NDF : 13887.6/33

In: 45.970+/-0.541 χ^2/NDF :7422.5/17

Out: 51.937+/-0.551 χ^2/NDF :6778.9/20

All: 48.897+/-0.386 χ^2/NDF : 14261.1/38

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -13.090 ± 0.600 χ^2/NDF : 639.9/15

Left Out: 9.197 ± 1.221 χ^2/NDF : 4.7/2

Right Out: -15.589 ± 0.627 χ^2/NDF : 401.8/17

Left In: 13.294 ± 1.584 χ^2/NDF : 4.2/1

Left: 10.725 ± 0.967 χ^2/NDF : 13.1/4

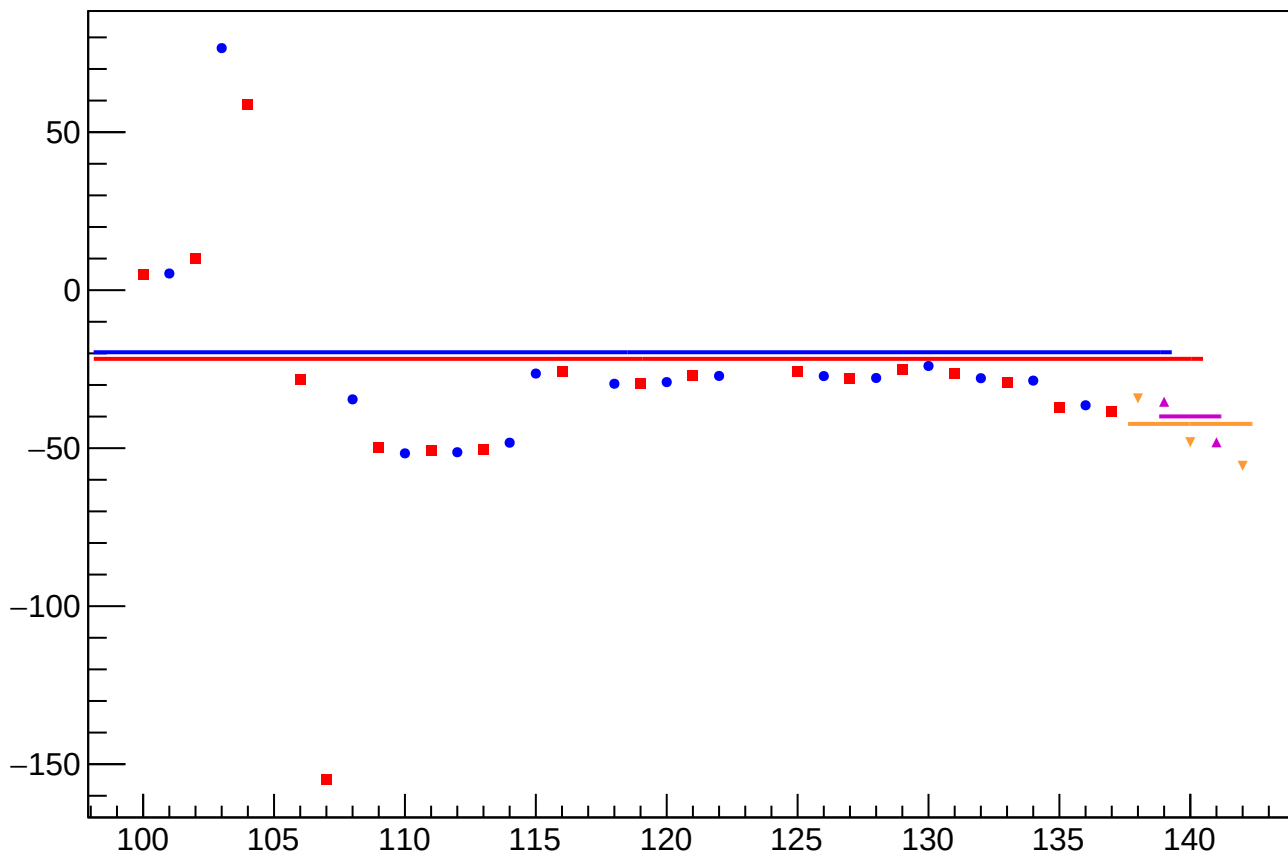
Right: -14.285 ± 0.433 χ^2/NDF : 1050.0/33

In: -9.781 ± 0.561 χ^2/NDF : 886.8/17

Out: -10.422 ± 0.558 χ^2/NDF : 732.5/20

All: -10.103 ± 0.395 χ^2/NDF : 1620.0/38

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.644 ± 0.036 χ^2/NDF : 646925.7/15

Left Out: -42.318 ± 0.052 χ^2/NDF : 26144.1/2

Right Out: -21.730 ± 0.039 χ^2/NDF : 546659.9/17

Left In: -39.951 ± 0.053 χ^2/NDF : 13343.3/1

Left: -41.175 ± 0.037 χ^2/NDF : 40504.2/4

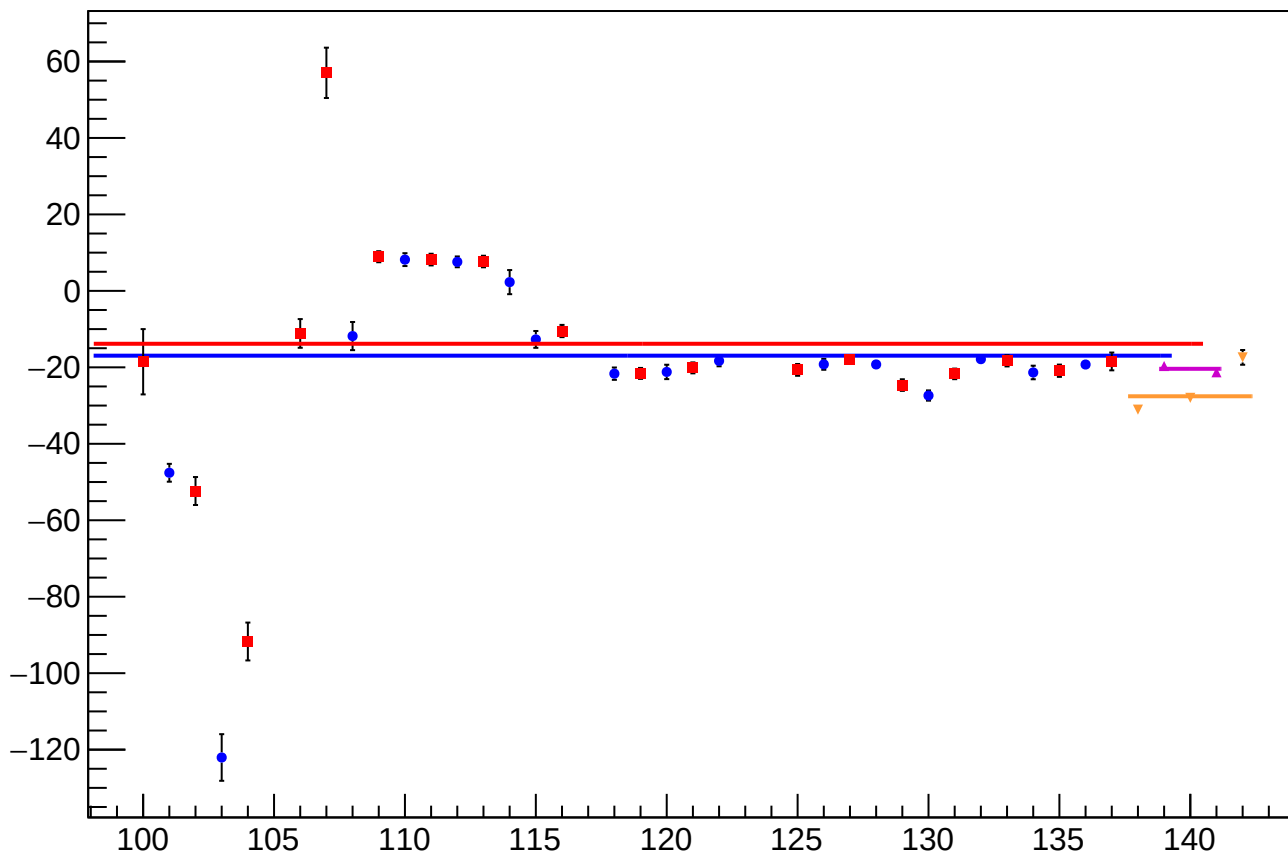
Right: -20.610 ± 0.026 χ^2/NDF : 1195130.0/33

In: -26.017 ± 0.030 χ^2/NDF : 759508.6/17

Out: -29.191 ± 0.031 χ^2/NDF : 674379.3/20

All: -27.545 ± 0.022 χ^2/NDF : 1439307.7/38

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -16.949 ± 0.404 $\chi^2/\text{NDF}: 1128.2/15$

Left Out: -27.570 ± 0.762 $\chi^2/\text{NDF}: 36.5/2$

Right Out: -13.837 ± 0.409 $\chi^2/\text{NDF}: 1333.2/17$

Left In: -20.385 ± 0.868 $\chi^2/\text{NDF}: 0.9/1$

Left: -24.445 ± 0.573 $\chi^2/\text{NDF}: 76.0/4$

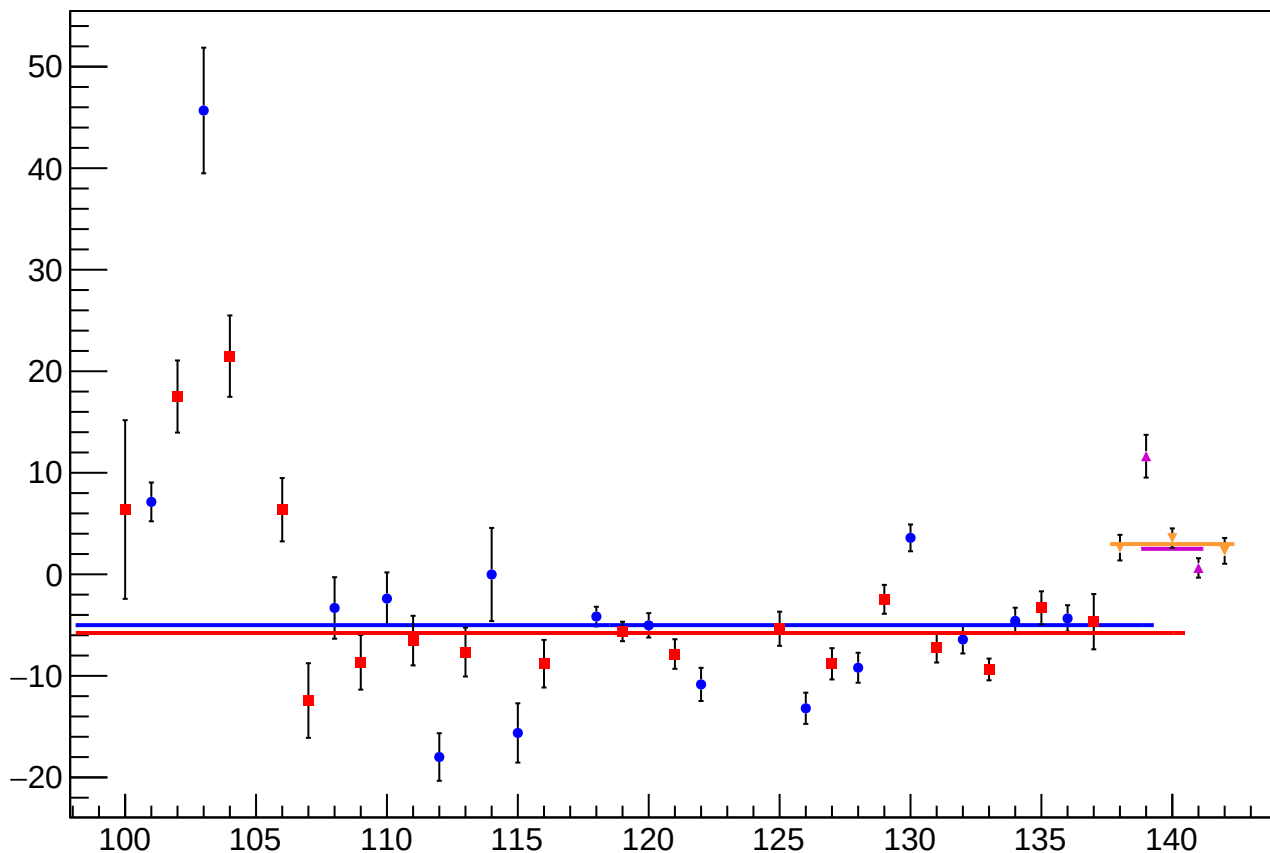
Right: -15.414 ± 0.287 $\chi^2/\text{NDF}: 2490.7/33$

In: -17.560 ± 0.366 $\chi^2/\text{NDF}: 1142.0/17$

Out: -16.912 ± 0.360 $\chi^2/\text{NDF}: 1621.9/20$

All: -17.231 ± 0.257 $\chi^2/\text{NDF}: 2765.5/38$

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.006 ± 0.401 χ^2/NDF : 247.8/15

Left Out: 2.979 ± 0.654 χ^2/NDF : 0.7/2

Right Out: -5.779 ± 0.419 χ^2/NDF : 139.3/17

Left In: 2.512 ± 0.871 χ^2/NDF : 22.6/1

Left: 2.810 ± 0.523 χ^2/NDF : 23.6/4

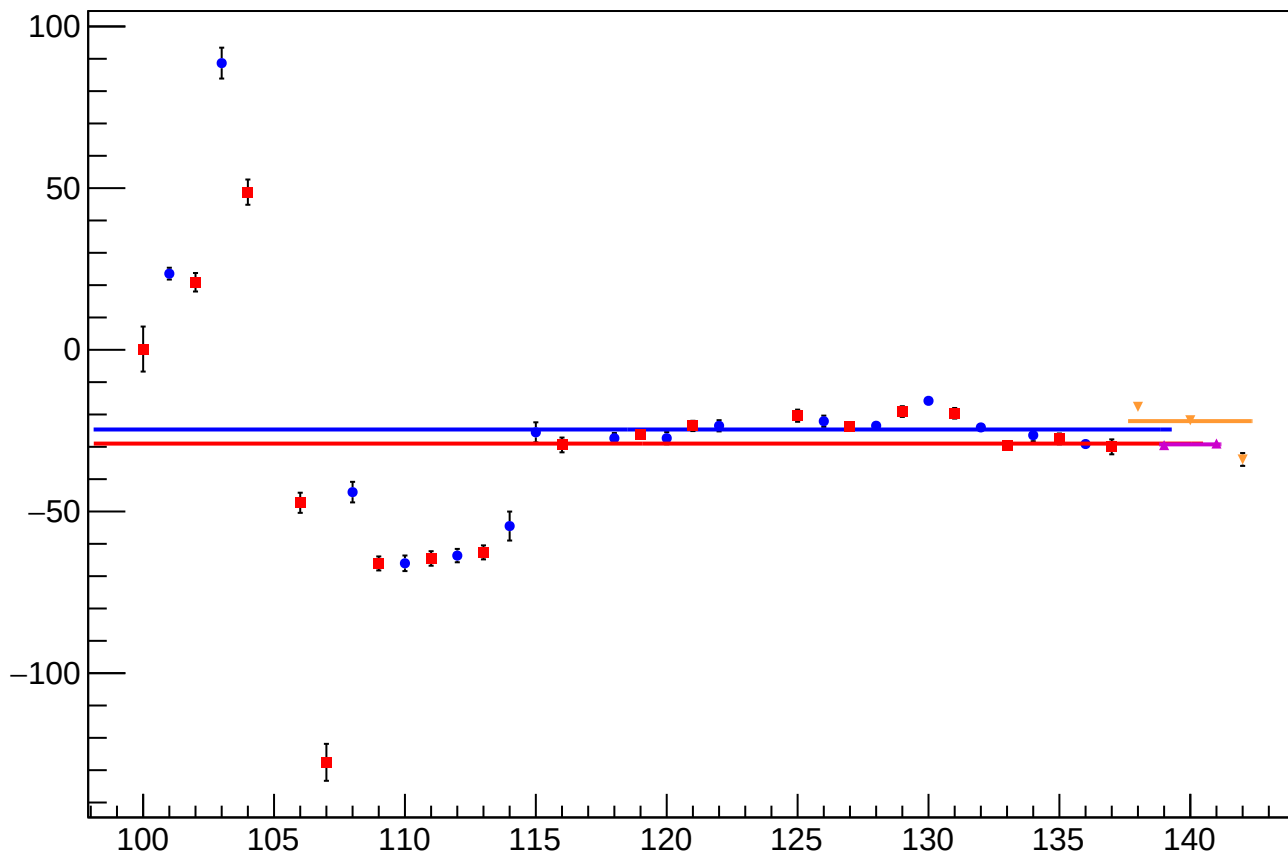
Right: -5.375 ± 0.290 χ^2/NDF : 388.9/33

In: -3.689 ± 0.364 χ^2/NDF : 331.9/17

Out: -3.229 ± 0.353 χ^2/NDF : 267.0/20

All: -3.452 ± 0.254 χ^2/NDF : 599.7/38

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -24.641 ± 0.455 χ^2/NDF : 2051.8/15

Left Out: -22.051 ± 0.788 χ^2/NDF : 48.1/2

Right Out: -29.002 ± 0.475 χ^2/NDF : 1952.3/17

Left In: -29.242 ± 0.898 χ^2/NDF : 0.1/1

Left: -25.180 ± 0.593 χ^2/NDF : 84.3/4

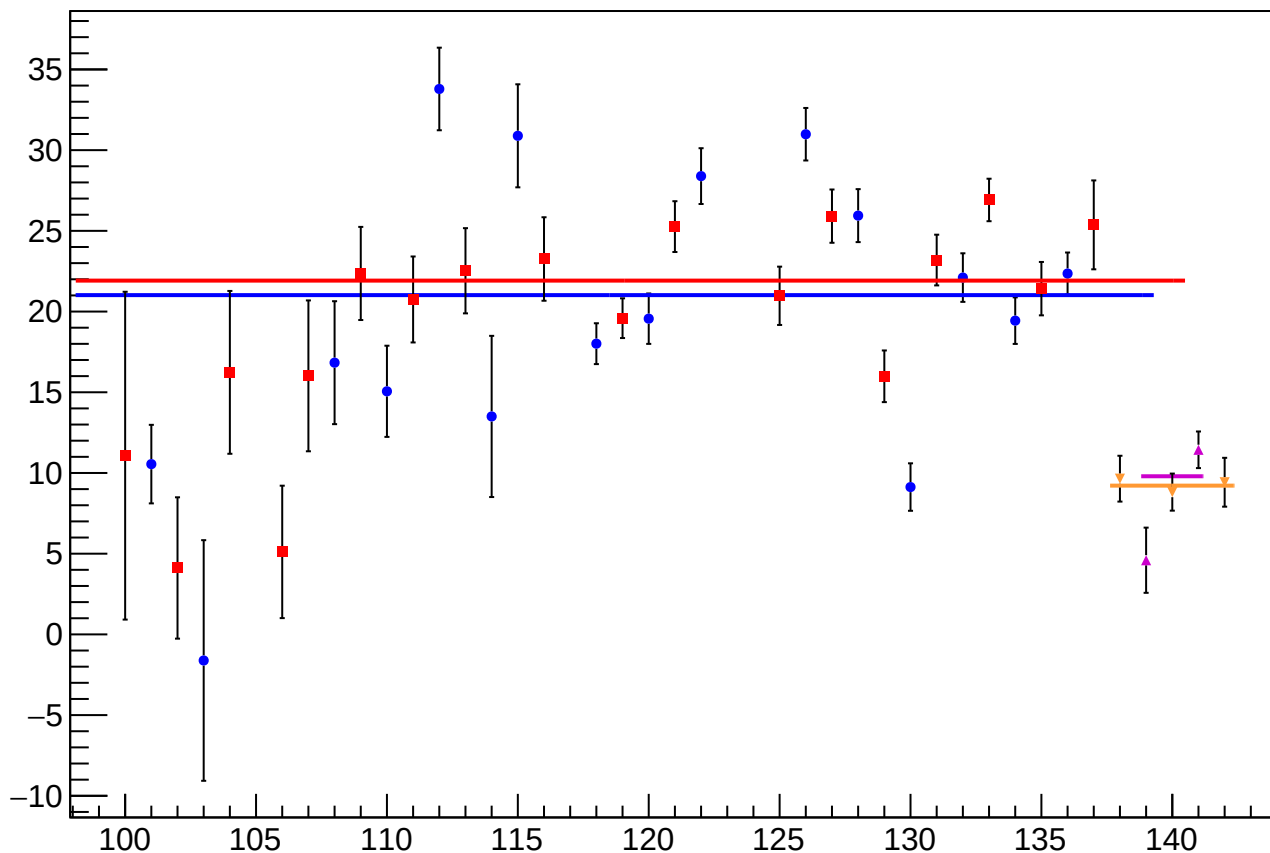
Right: -26.727 ± 0.329 χ^2/NDF : 4048.0/33

In: -25.580 ± 0.406 χ^2/NDF : 2072.8/17

Out: -27.150 ± 0.407 χ^2/NDF : 2057.3/20

All: -26.363 ± 0.287 χ^2/NDF : 4137.6/38

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 21.019 $\pm$ 0.458 χ^2 /NDF: 209.6/15

Left Out: 9.216 $\pm$ 0.769 χ^2 /NDF:0.2/2

Right Out: 21.918 $\pm$ 0.478 χ^2 /NDF: 82.5/17

Left In: 9.796 $\pm$ 0.989 χ^2 /NDF:8.7/1

Left: 9.435 $\pm$ 0.607 χ^2 /NDF: 9.2/4

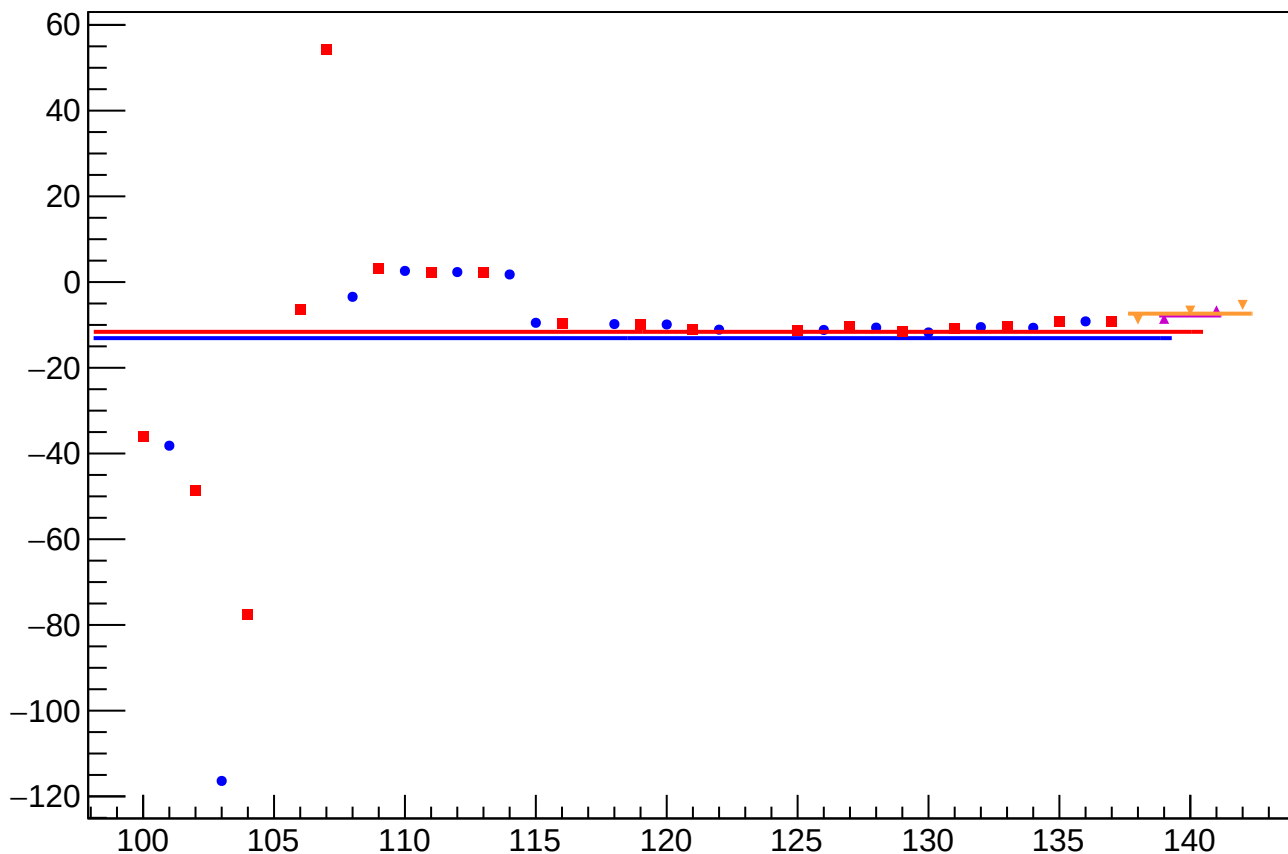
Right: 21.449 $\pm$ 0.331 χ^2 /NDF: 294.0/33

In: 19.036 $\pm$ 0.416 χ^2 /NDF:324.4/17

Out: 18.373 $\pm$ 0.406 χ^2 /NDF:279.5/20

All: 18.697 $\pm$ 0.291 χ^2 /NDF: 605.2/38

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -13.086+/-0.028 χ^2/NDF : 344941.2/15

Left Out: -7.364+/-0.033 χ^2/NDF :1578.5/2

Right Out: -11.610+/-0.031 χ^2/NDF : 314183.9/17

Left In: -7.799+/-0.034 χ^2/NDF :801.5/1

Left: -7.574+/-0.024 χ^2/NDF : 2464.9/4

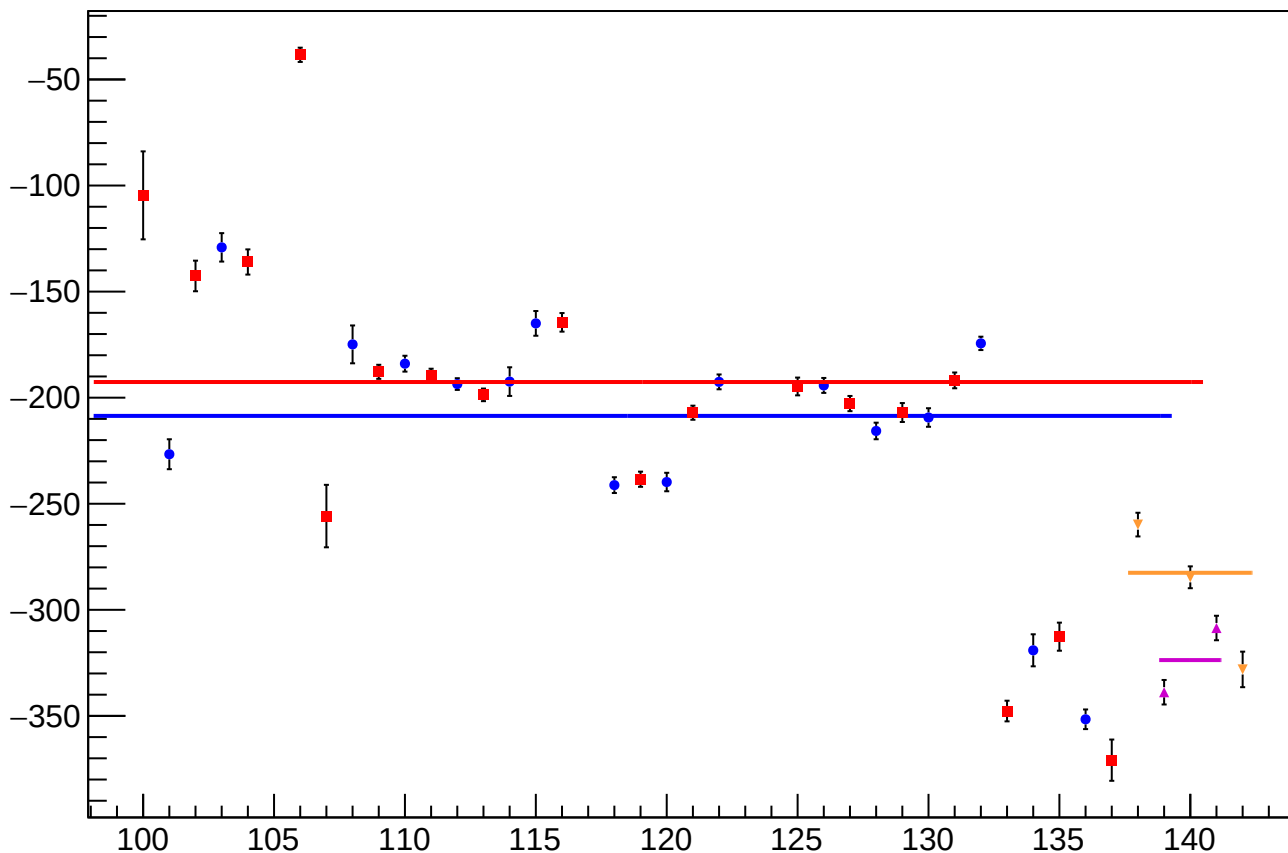
Right: -12.409+/-0.021 χ^2/NDF : 660362.1/33

In: -10.907+/-0.022 χ^2/NDF :360014.9/17

Out: -9.616+/-0.022 χ^2/NDF :324634.5/20

All: -10.282+/-0.016 χ^2/NDF : 686349.7/38

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -208.586+/-1.067 χ^2/NDF : 1751.1/15

Left Out: -282.542+/-3.449 χ^2/NDF :46.3/2

Right Out: -192.617+/-0.999 χ^2/NDF : 4207.1/17

Left In: -323.694+/-4.084 χ^2/NDF :13.7/1

Left: -299.674+/-2.635 χ^2/NDF : 119.3/4

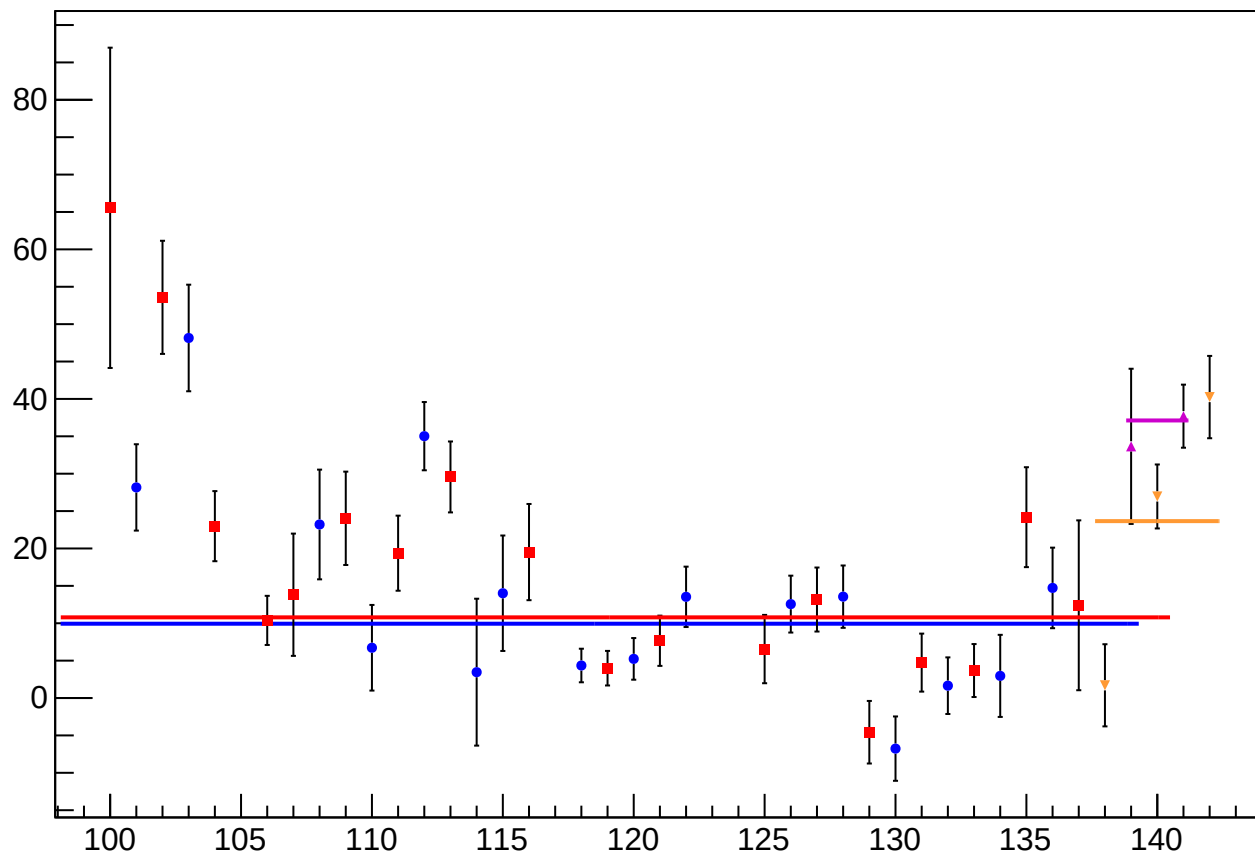
Right: -200.079+/-0.729 χ^2/NDF : 6077.7/33

In: -215.934+/-1.032 χ^2/NDF :2508.5/17

Out: -199.575+/-0.959 χ^2/NDF :4880.5/20

All: -207.160+/-0.703 χ^2/NDF : 7523.8/38

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.938 ± 1.065 χ^2/NDF : 106.6/15

Left Out: 23.657 ± 2.877 χ^2/NDF : 25.7/2

Right Out: 10.788 ± 1.044 χ^2/NDF : 105.1/17

Left In: 37.120 ± 3.907 χ^2/NDF : 0.1/1

Left: 28.391 ± 2.317 χ^2/NDF : 33.5/4

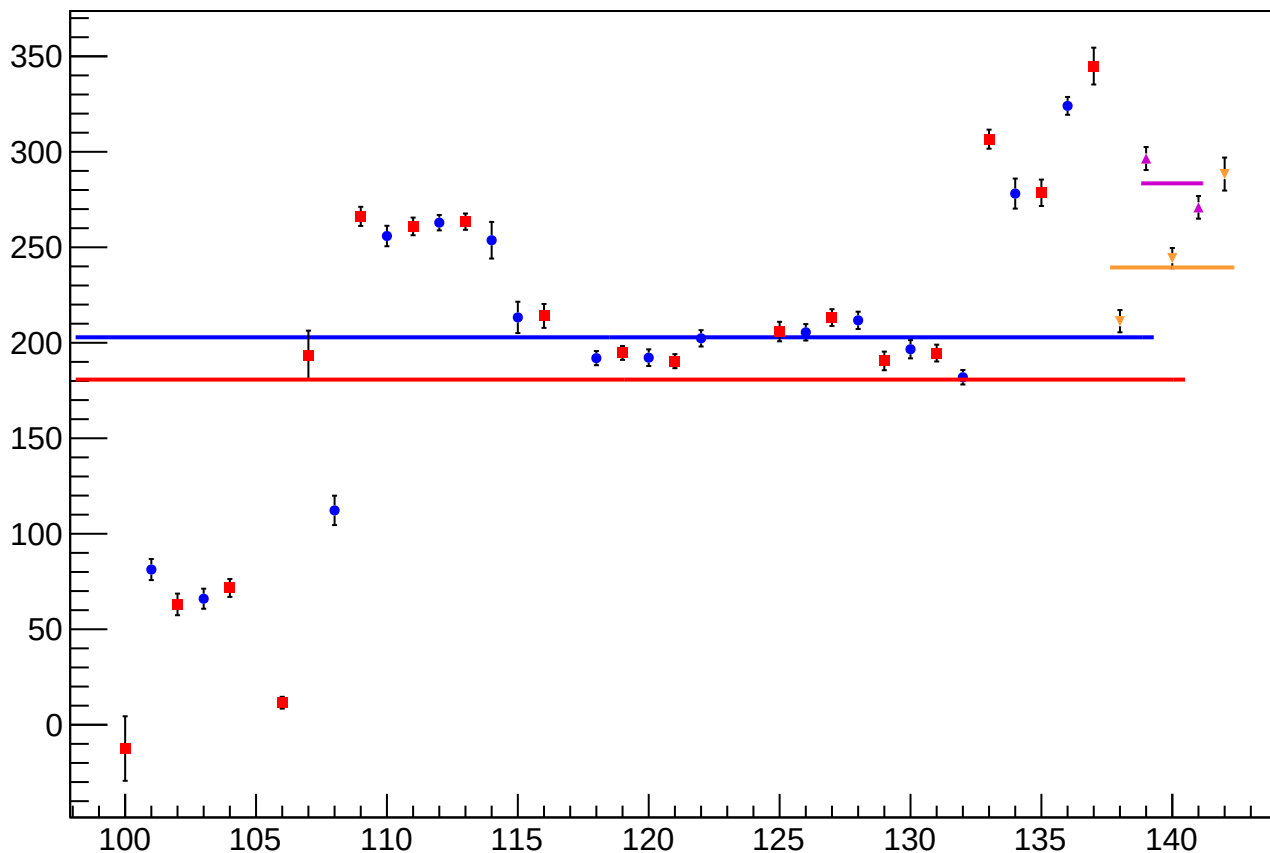
Right: 10.372 ± 0.746 χ^2/NDF : 212.0/33

In: 11.820 ± 1.028 χ^2/NDF : 151.7/17

Out: 12.284 ± 0.981 χ^2/NDF : 148.4/20

All: 12.063 ± 0.710 χ^2/NDF : 300.3/38

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 202.874 $\pm$ 1.226 χ^2 /NDF: 2464.2/15

Left Out: 239.444 $\pm$ 3.568 χ^2 /NDF:56.2/2

Right Out: 180.731 $\pm$ 1.144 χ^2 /NDF: 6347.9/17

Left In: 283.473 $\pm$ 4.224 χ^2 /NDF:9.1/1

Left: 257.778 $\pm$ 2.726 χ^2 /NDF: 128.8/4

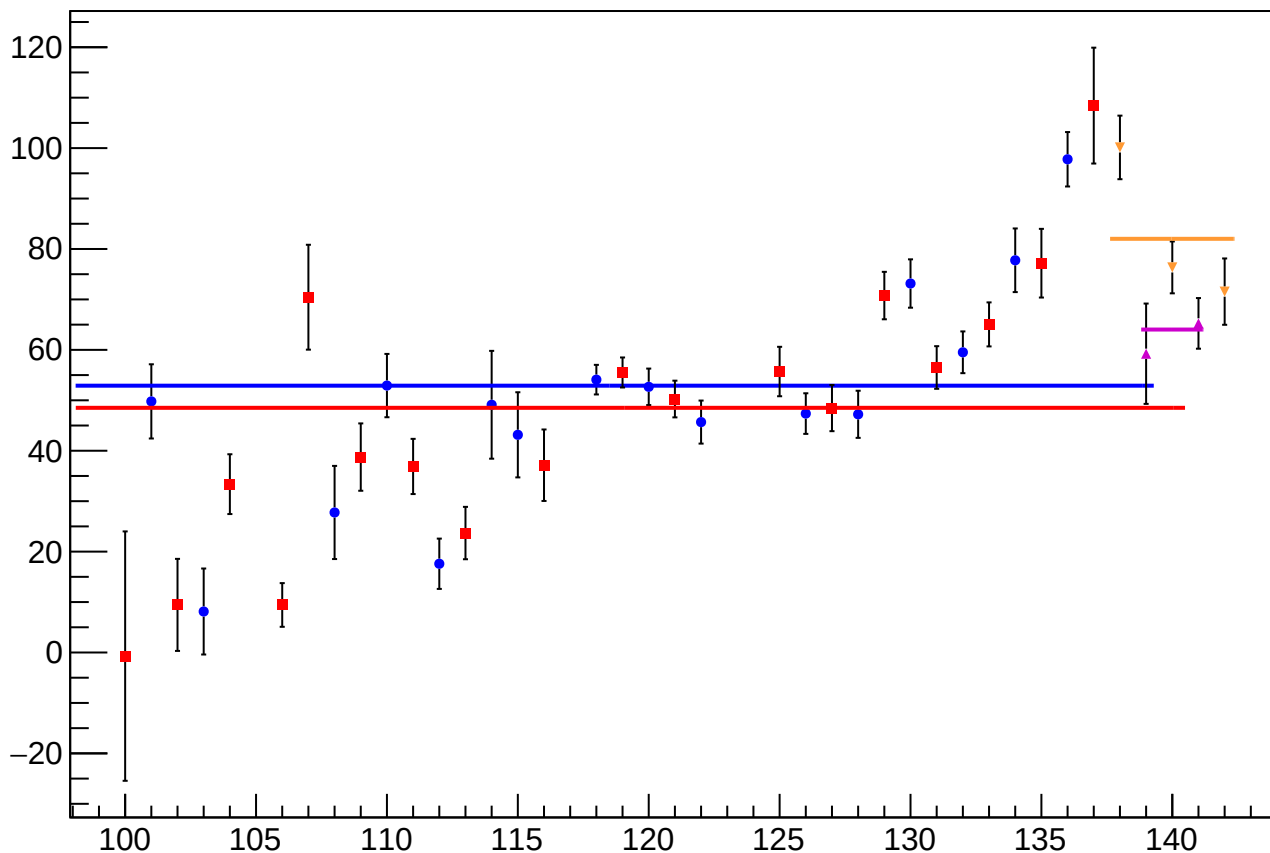
Right: 191.037 $\pm$ 0.836 χ^2 /NDF: 8986.6/33

In: 209.132 $\pm$ 1.177 χ^2 /NDF:2809.2/17

Out: 186.201 $\pm$ 1.089 χ^2 /NDF:6649.7/20

All: 196.777 $\pm$ 0.799 χ^2 /NDF: 9663.4/38

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 52.899 $\pm$ 1.242 χ^2 /NDF: 198.3/15

Left Out: 82.016 $\pm$ 3.408 χ^2 /NDF:12.0/2

Right Out: 48.510 $\pm$ 1.214 χ^2 /NDF: 240.0/17

Left In: 64.028 $\pm$ 4.482 χ^2 /NDF:0.3/1

Left: 75.427 $\pm$ 2.713 χ^2 /NDF: 22.5/4

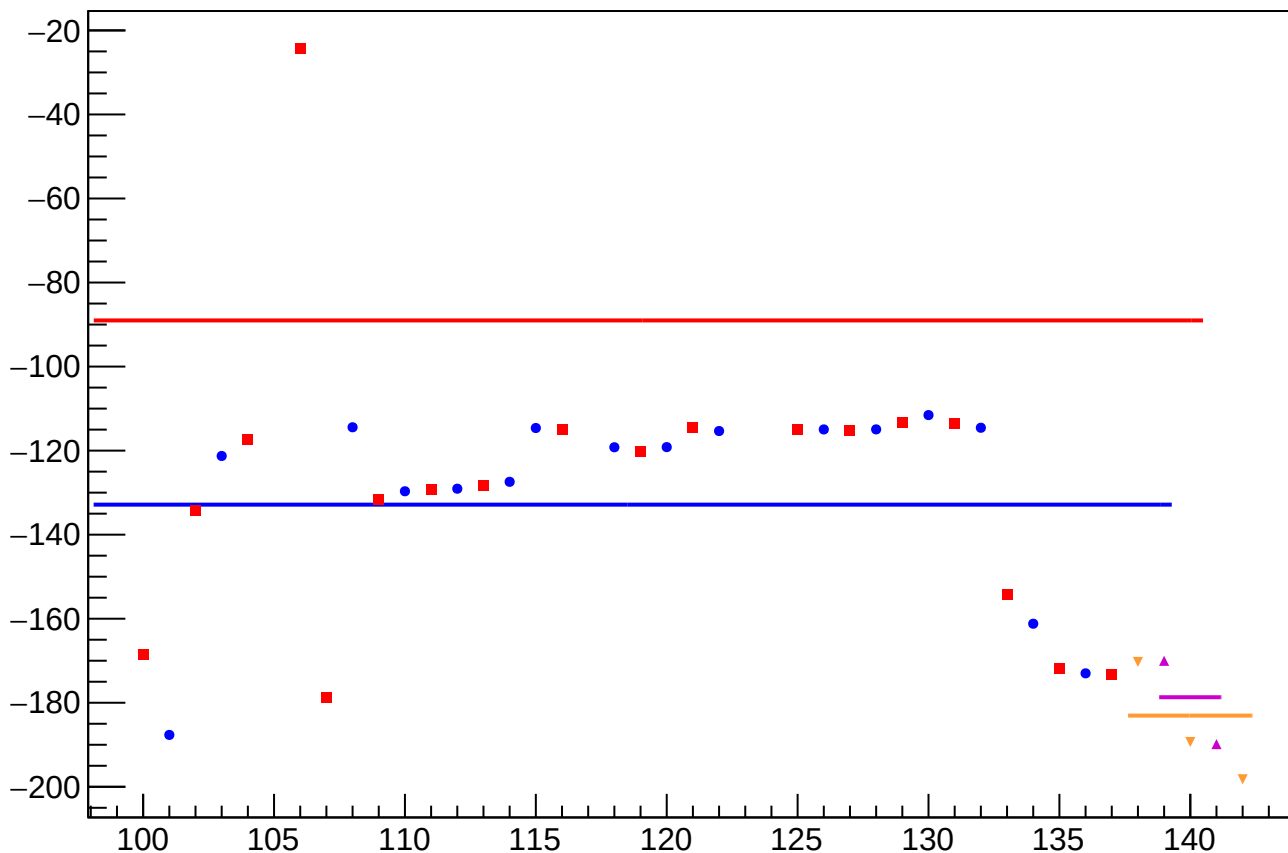
Right: 50.656 $\pm$ 0.868 χ^2 /NDF: 444.7/33

In: 53.692 $\pm$ 1.196 χ^2 /NDF:204.3/17

Out: 52.285 $\pm$ 1.144 χ^2 /NDF:337.8/20

All: 52.957 $\pm$ 0.827 χ^2 /NDF: 542.8/38

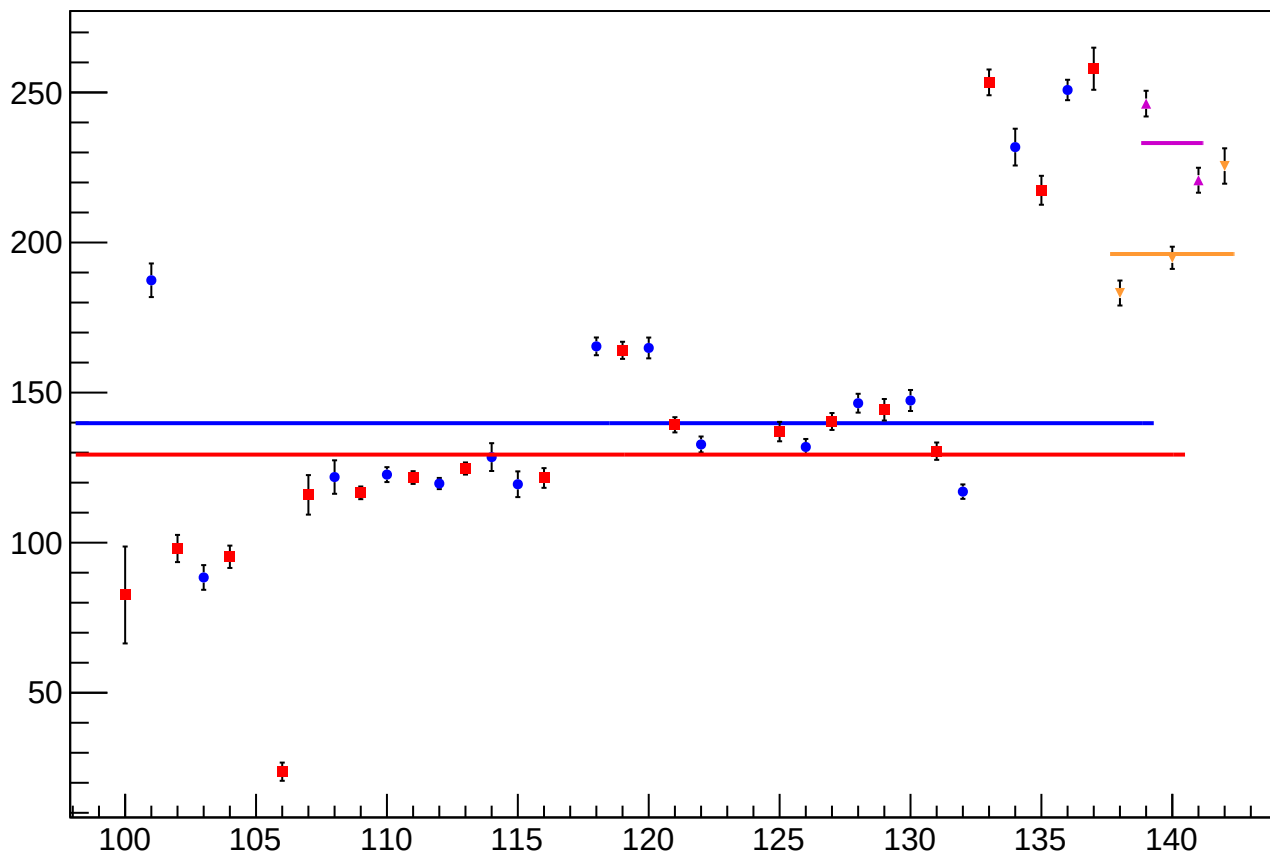
reg_asym_usl_atl2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -132.856+/-0.081 χ^2/NDF : 93497.9/15
 Left Out: -183.061+/-0.151 χ^2/NDF : 5511.4/2
 Right Out: -89.020+/-0.064 χ^2/NDF : 728110.1/17
 Left In: -178.688+/-0.161 χ^2/NDF : 3741.9/1

Left: -181.018+/-0.110 χ^2/NDF : 9647.4/4
 Right: -105.832+/-0.050 χ^2/NDF : 1000593.4/33
 In: -142.198+/-0.073 χ^2/NDF : 161934.4/17
 Out: -103.474+/-0.059 χ^2/NDF : 1063744.3/20
 All: -118.889+/-0.046 χ^2/NDF : 1396974.9/38

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 139.810 $\pm$ 0.785 χ^2 /NDF: 1964.9/15

Left Out: 196.175 $\pm$ 2.504 χ^2 /NDF:34.6/2

Right Out: 129.344 $\pm$ 0.734 χ^2 /NDF: 3123.5/17

Left In: 233.141 $\pm$ 2.983 χ^2 /NDF:18.3/1

Left: 211.454 $\pm$ 1.918 χ^2 /NDF: 143.0/4

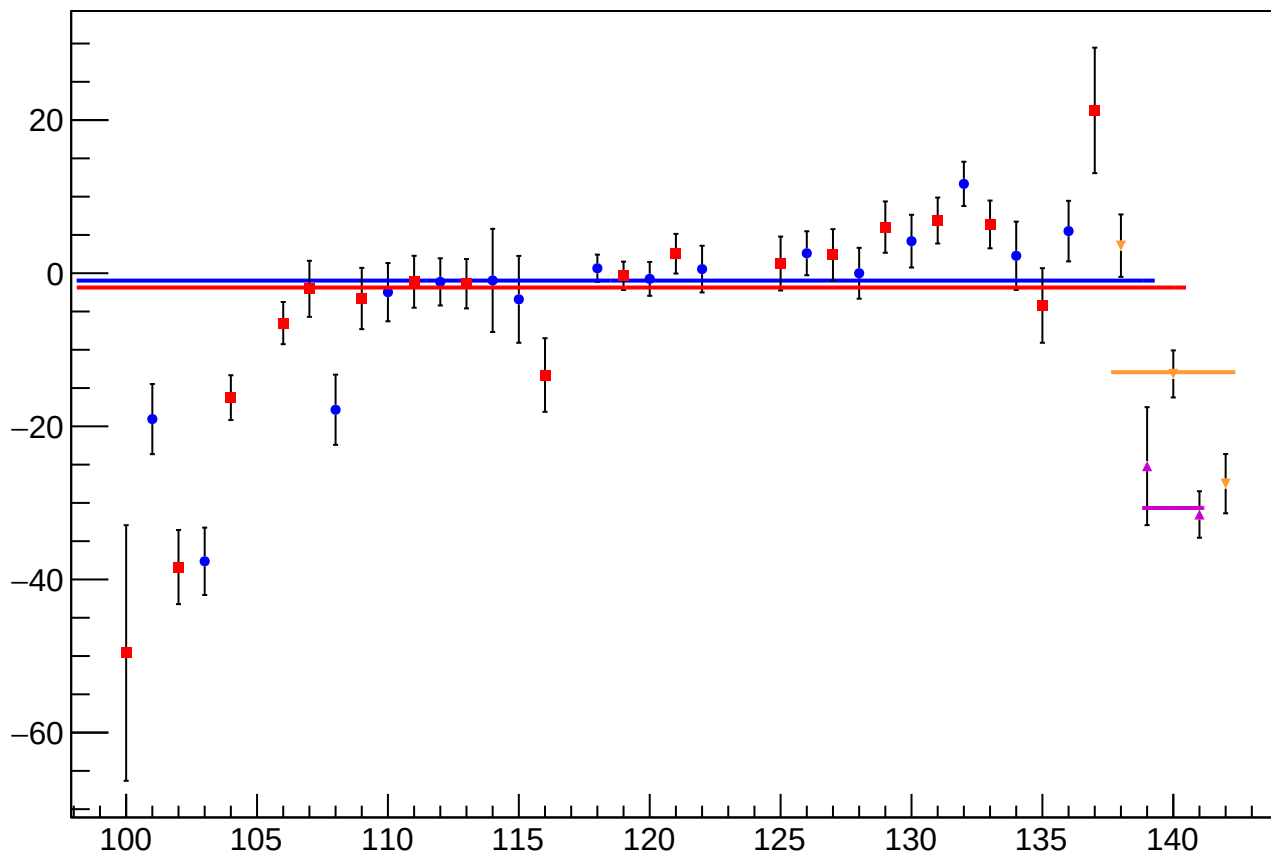
Right: 134.231 $\pm$ 0.536 χ^2 /NDF: 5183.3/33

In: 145.850 $\pm$ 0.759 χ^2 /NDF:2899.0/17

Out: 134.637 $\pm$ 0.705 χ^2 /NDF:3814.3/20

All: 139.829 $\pm$ 0.516 χ^2 /NDF: 6830.5/38

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.963 ± 0.808 χ^2/NDF : 126.1/15

Left Out: -12.928 ± 2.073 χ^2/NDF : 30.6/2

Right Out: -1.869 ± 0.784 χ^2/NDF : 133.2/17

Left In: -30.663 ± 2.826 χ^2/NDF : 0.6/1

Left: -19.132 ± 1.672 χ^2/NDF : 56.8/4

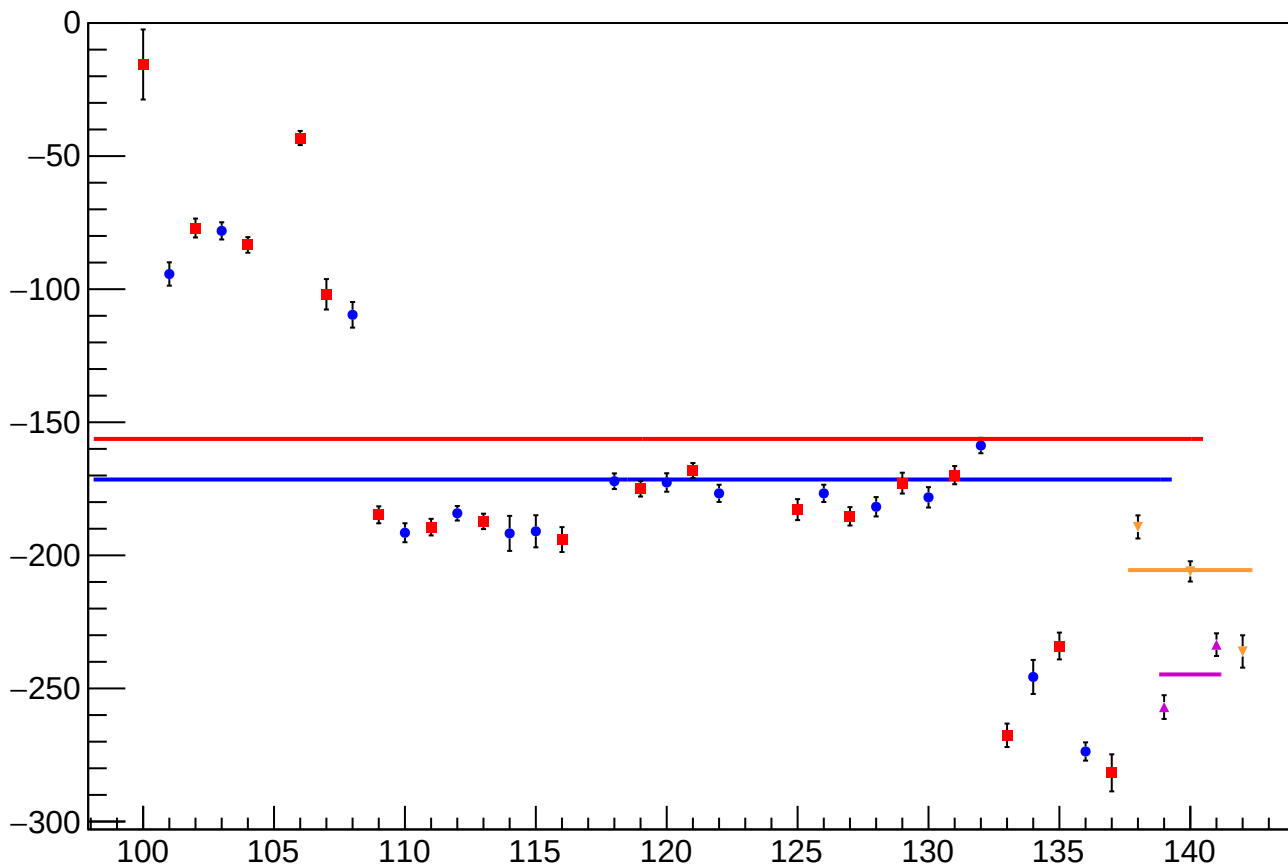
Right: -1.430 ± 0.563 χ^2/NDF : 259.9/33

In: -3.208 ± 0.777 χ^2/NDF : 228.7/17

Out: -3.251 ± 0.733 χ^2/NDF : 188.7/20

All: -3.231 ± 0.533 χ^2/NDF : 417.4/38

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.506+/-0.907 χ^2/NDF : 2442.8/15

Left Out: -205.540+/-2.589 χ^2/NDF : 39.3/2

Right Out: -156.260+/-0.847 χ^2/NDF : 4904.3/17

Left In: -244.748+/-3.083 χ^2/NDF : 14.4/1

Left: -221.752+/-1.983 χ^2/NDF : 148.5/4

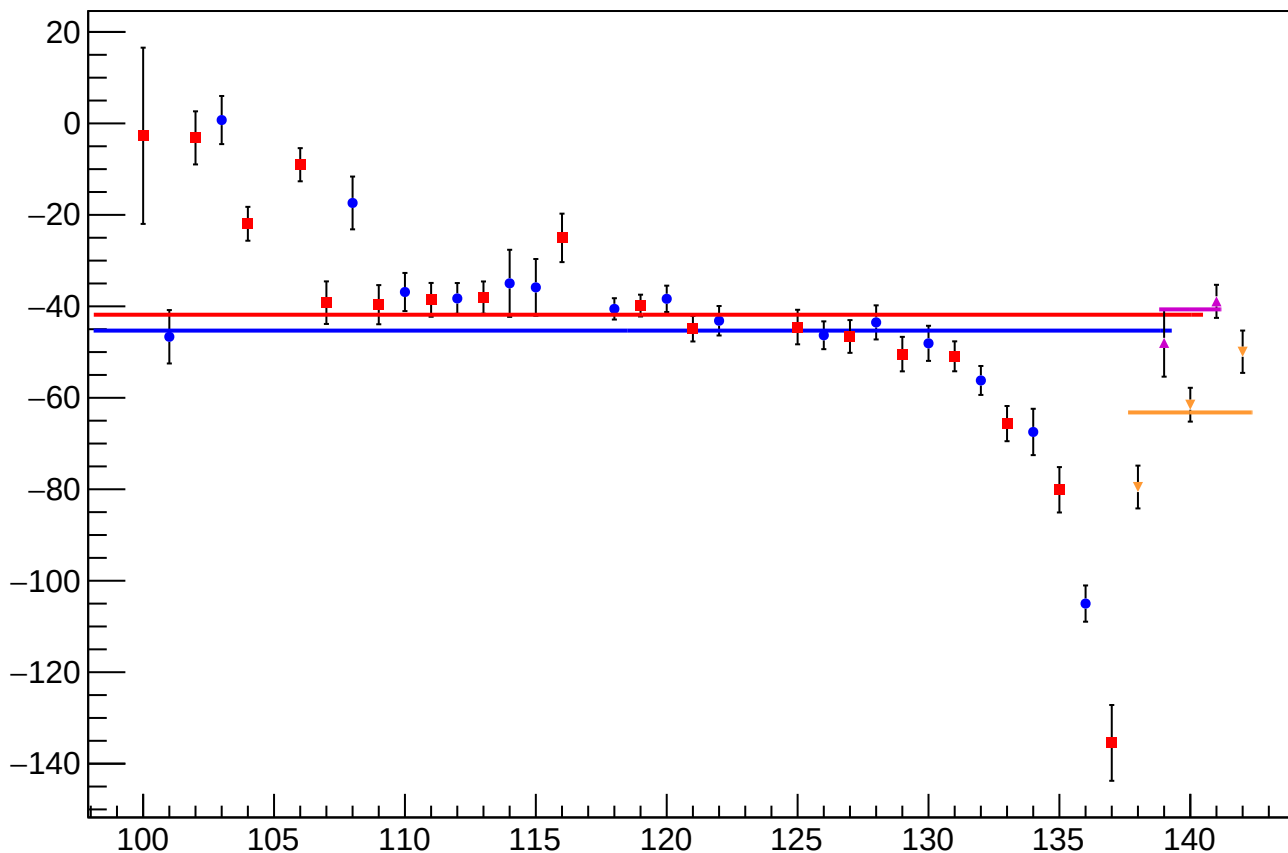
Right: -163.367+/-0.619 χ^2/NDF : 7498.1/33

In: -177.337+/-0.870 χ^2/NDF : 2976.6/17

Out: -161.028+/-0.805 χ^2/NDF : 5270.9/20

All: -168.554+/-0.591 χ^2/NDF : 8436.7/38

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -45.304 ± 0.938 χ^2/NDF : 382.0/15

Left Out: -63.200 ± 2.458 χ^2/NDF : 20.6/2

Right Out: -41.832 ± 0.909 χ^2/NDF : 414.2/17

Left In: -40.664 ± 3.248 χ^2/NDF : 1.2/1

Left: -54.994 ± 1.960 χ^2/NDF : 52.4/4

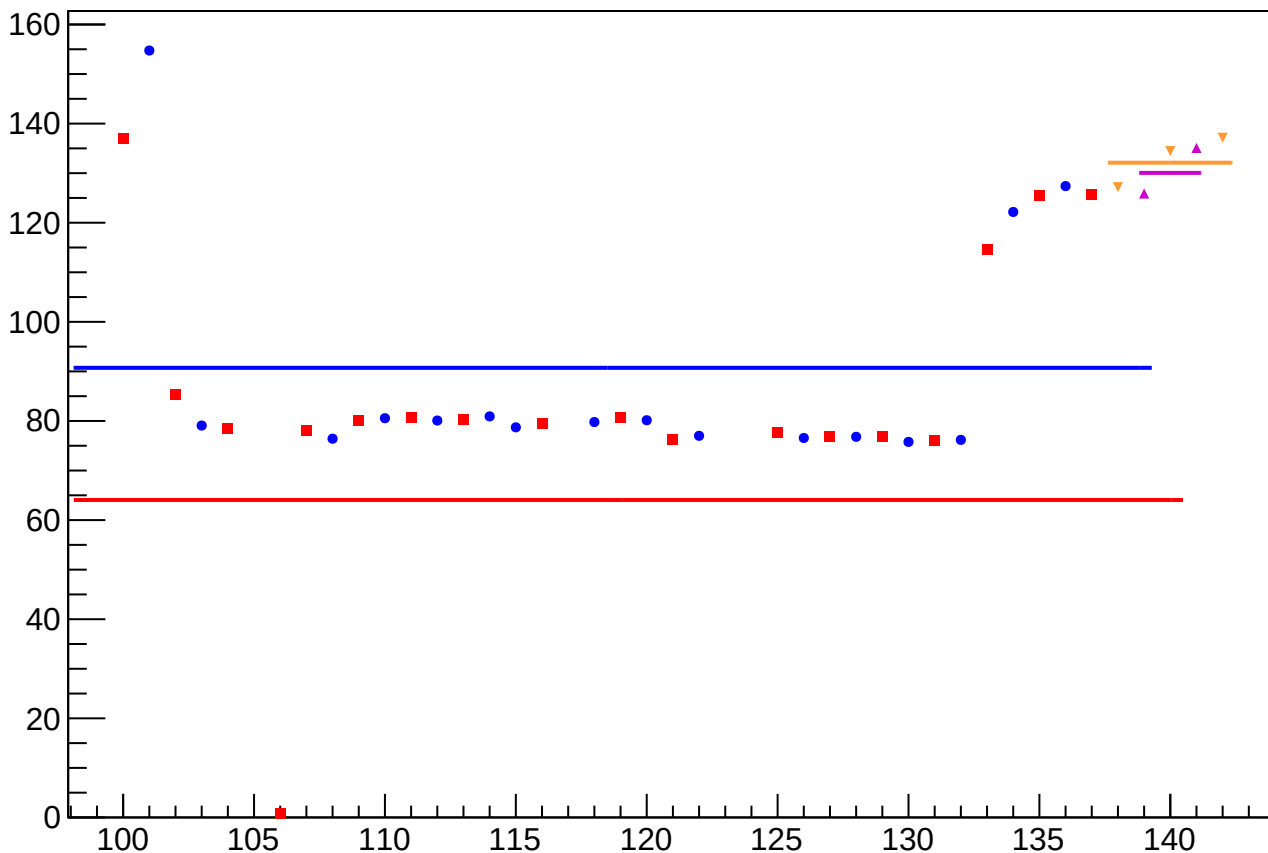
Right: -43.515 ± 0.653 χ^2/NDF : 803.4/33

In: -44.947 ± 0.901 χ^2/NDF : 385.1/17

Out: -44.405 ± 0.853 χ^2/NDF : 501.3/20

All: -44.661 ± 0.619 χ^2/NDF : 886.7/38

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 90.726+/-0.058 χ^2/NDF : 161153.0/15

Left Out: 132.115+/-0.109 χ^2/NDF :1395.6/2

Right Out: 64.059+/-0.049 χ^2/NDF : 660935.1/17

Left In: 130.055+/-0.118 χ^2/NDF :1512.6/1

Left: 131.161+/-0.080 χ^2/NDF : 3072.5/4

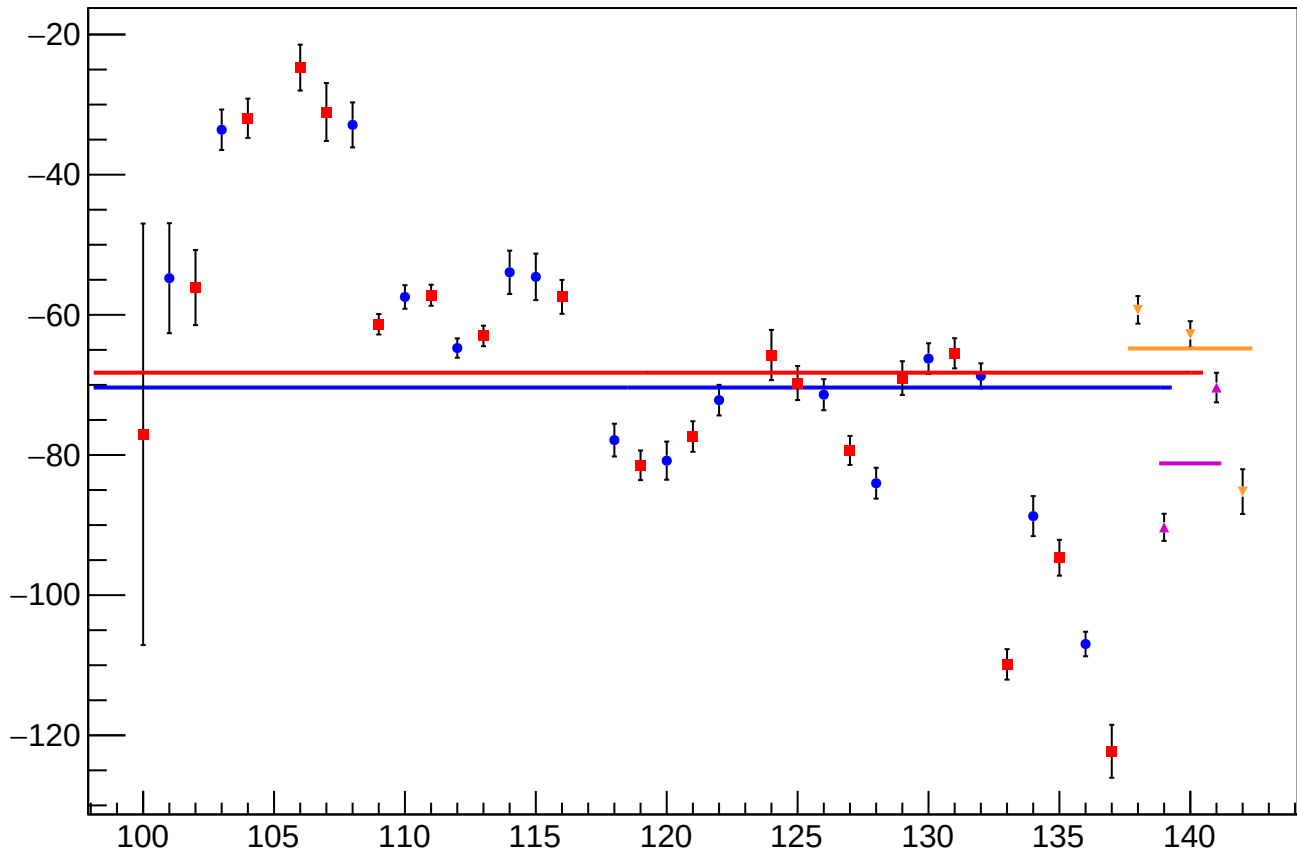
Right: 75.136+/-0.038 χ^2/NDF : 943639.1/33

In: 98.506+/-0.052 χ^2/NDF :252129.3/17

Out: 75.539+/-0.045 χ^2/NDF :983844.2/20

All: 85.279+/-0.034 χ^2/NDF : 1346700.0/38

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -70.374+/-0.558 χ^2/NDF : 974.9/15

Left Out: -64.800+/-1.248 χ^2/NDF : 49.9/2

Right Out: -68.252+/-0.527 χ^2/NDF : 1306.0/18

Left In: -81.202+/-1.425 χ^2/NDF : 48.6/1

Left: -71.917+/-0.939 χ^2/NDF : 173.4/4

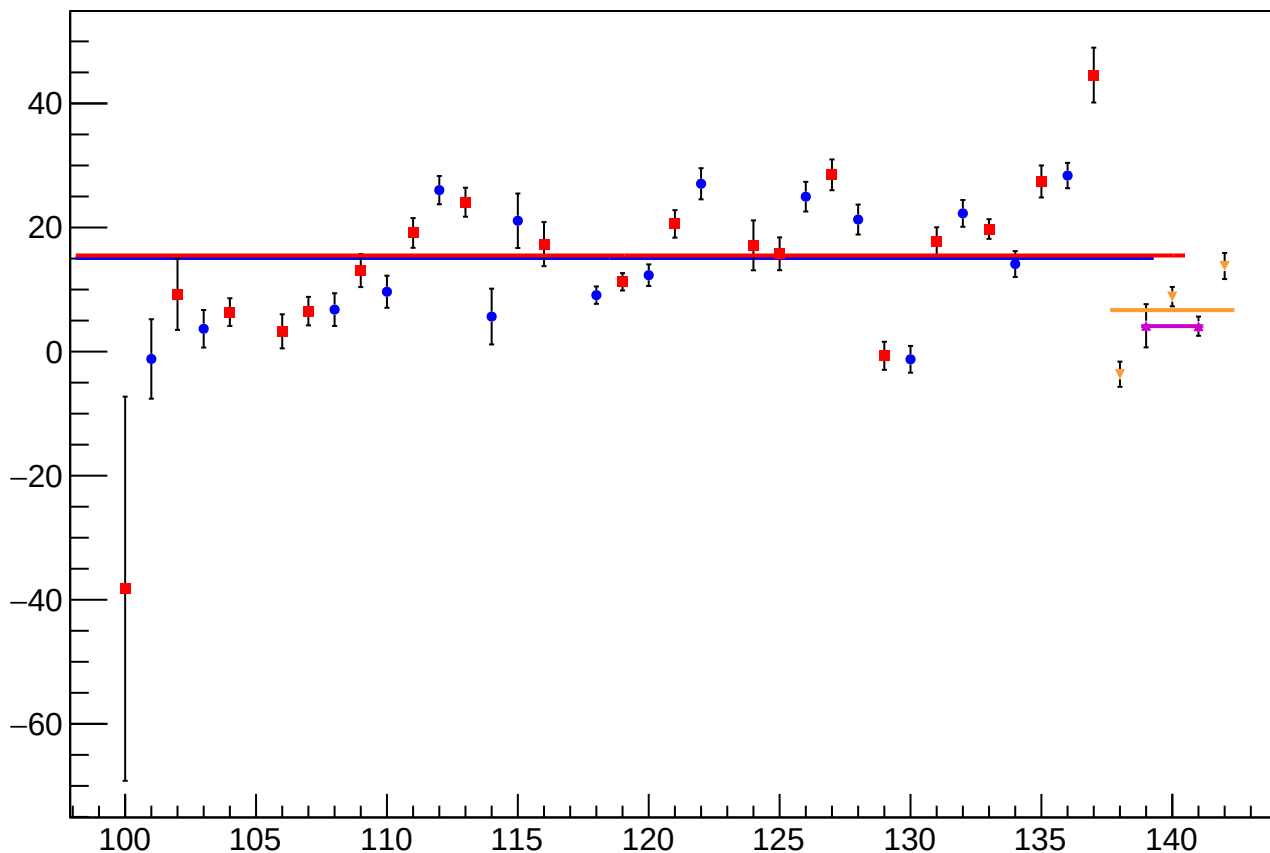
Right: -69.252+/-0.383 χ^2/NDF : 2288.5/34

In: -71.812+/-0.519 χ^2/NDF : 1073.5/17

Out: -67.730+/-0.485 χ^2/NDF : 1362.3/21

All: -69.632+/-0.355 χ^2/NDF : 2468.9/39

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.092 $\pm$ 0.581 χ^2 /NDF: 242.4/15

Left Out: 6.685 $\pm$ 1.068 χ^2 /NDF:39.2/2

Right Out: 15.491 $\pm$ 0.558 χ^2 /NDF: 239.3/18

Left In: 4.107 $\pm$ 1.414 χ^2 /NDF:0.0/1

Left: 5.749 $\pm$ 0.852 χ^2 /NDF: 41.3/4

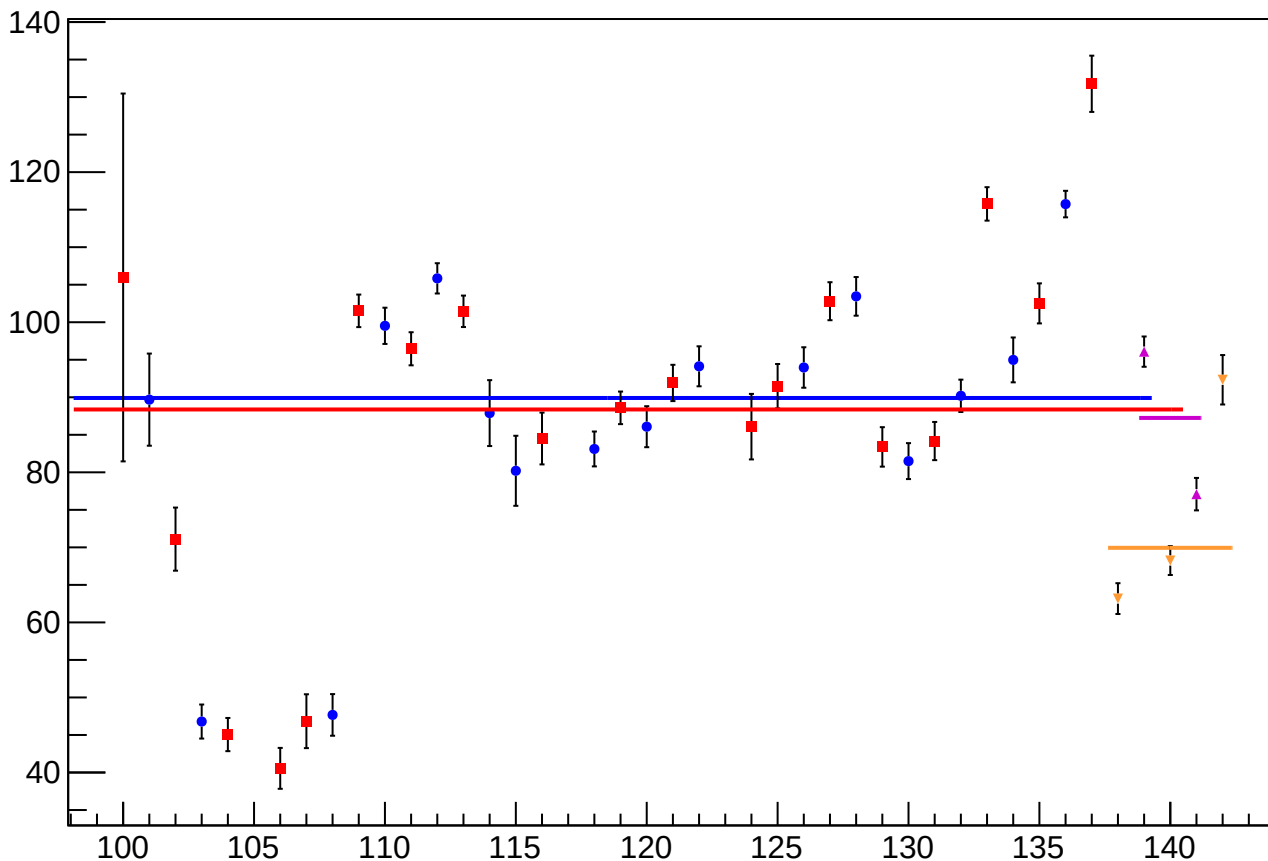
Right: 15.300 $\pm$ 0.402 χ^2 /NDF: 482.0/34

In: 13.506 $\pm$ 0.537 χ^2 /NDF:294.1/17

Out: 13.601 $\pm$ 0.495 χ^2 /NDF:331.9/21

All: 13.557 $\pm$ 0.364 χ^2 /NDF: 626.0/39

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 89.907 $\pm$ 0.641 χ^2 /NDF: 947.7/15

Left Out: 69.939 $\pm$ 1.292 χ^2 /NDF:57.8/2

Right Out: 88.375 $\pm$ 0.617 χ^2 /NDF: 1288.9/18

Left In: 87.249 $\pm$ 1.475 χ^2 /NDF:41.2/1

Left: 77.451 $\pm$ 0.972 χ^2 /NDF: 177.0/4

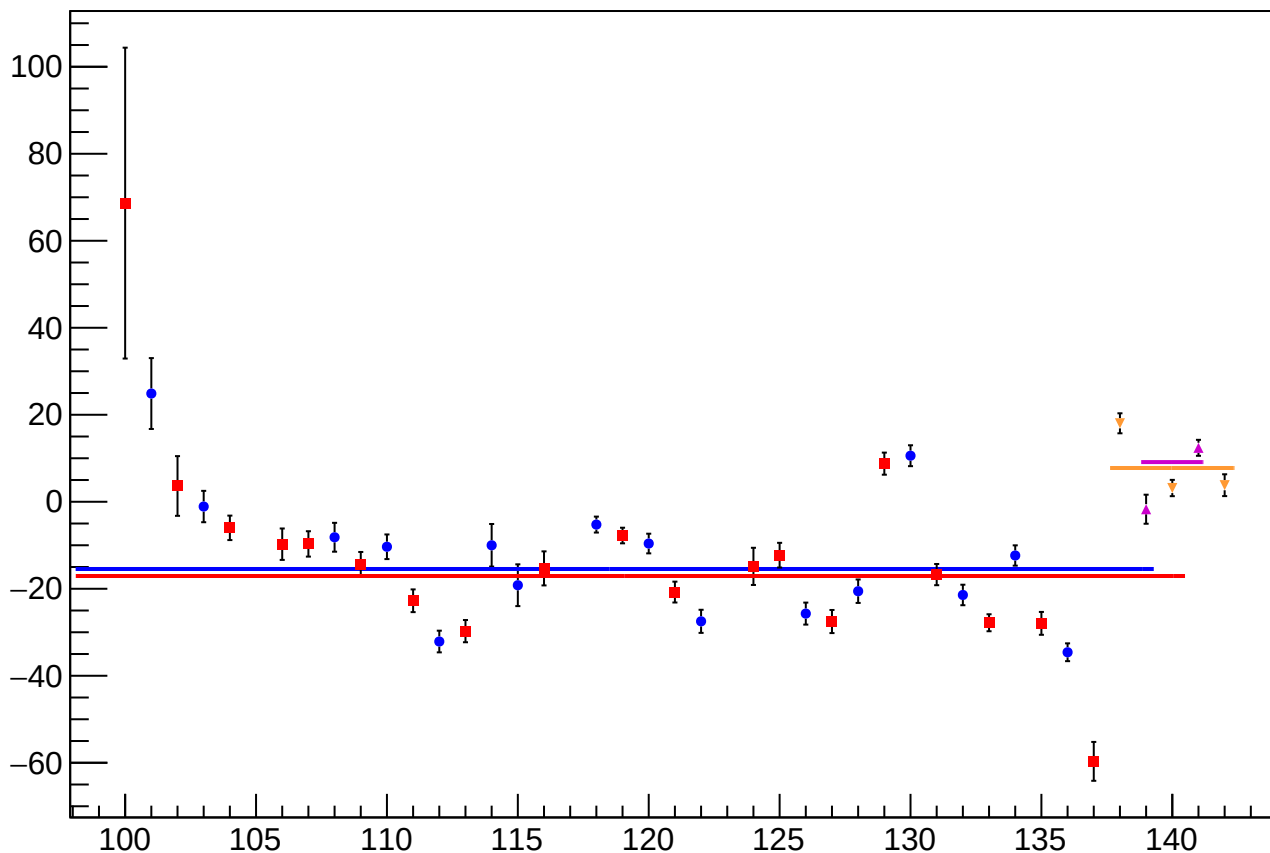
Right: 89.113 $\pm$ 0.445 χ^2 /NDF: 2239.5/34

In: 89.485 $\pm$ 0.588 χ^2 /NDF:991.7/17

Out: 84.946 $\pm$ 0.557 χ^2 /NDF:1512.5/21

All: 87.094 $\pm$ 0.404 χ^2 /NDF: 2535.7/39

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -15.454 $\pm$ 0.665 χ^2 /NDF: 386.5/15

Left Out: 7.763 $\pm$ 1.257 χ^2 /NDF:28.5/2

Right Out: -17.066 $\pm$ 0.644 χ^2 /NDF: 361.0/18

Left In: 9.122 $\pm$ 1.609 χ^2 /NDF:13.7/1

Left: 8.278 $\pm$ 0.991 χ^2 /NDF: 42.6/4

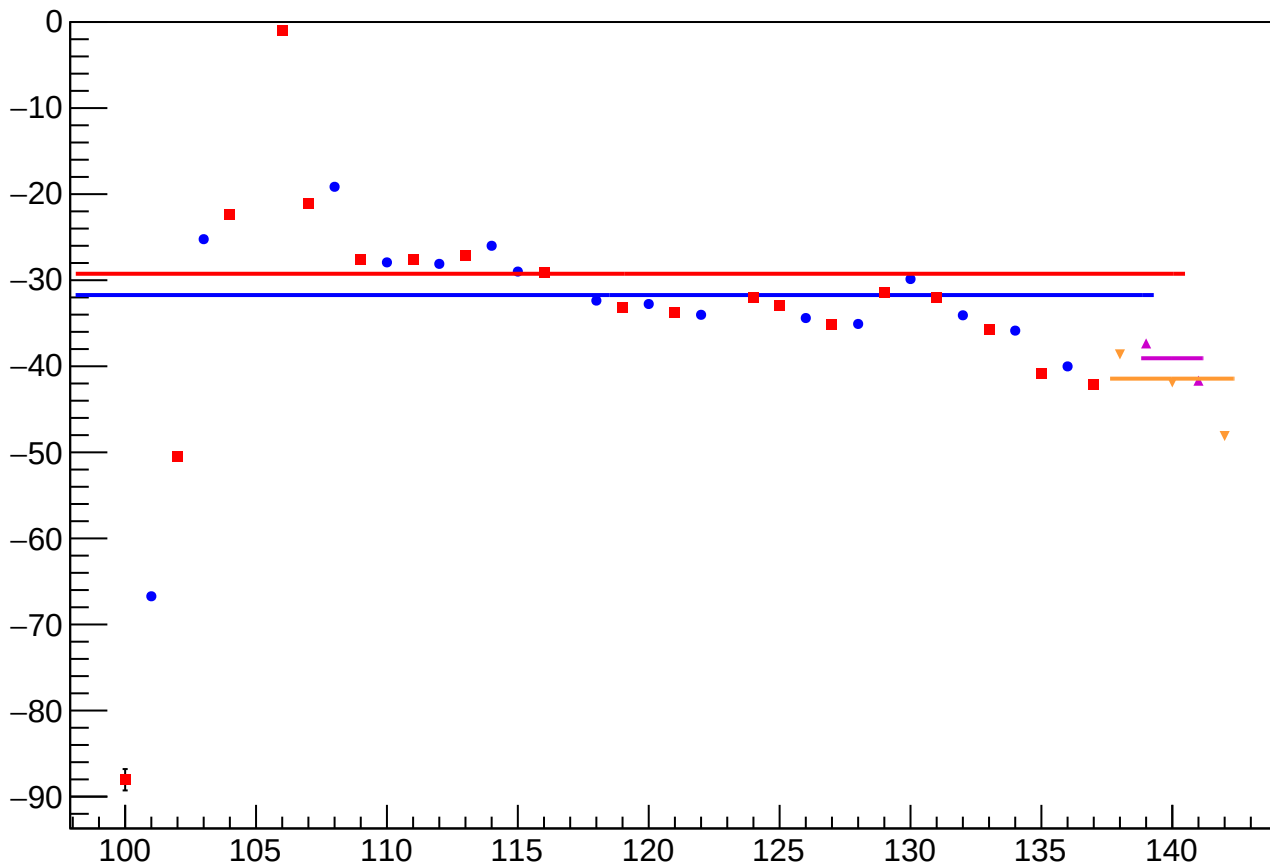
Right: -16.287 $\pm$ 0.463 χ^2 /NDF: 750.5/34

In: -11.865 $\pm$ 0.615 χ^2 /NDF:599.4/17

Out: -11.907 $\pm$ 0.573 χ^2 /NDF:698.7/21

All: -11.888 $\pm$ 0.419 χ^2 /NDF: 1298.1/39

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -31.725+/-0.039 χ^2/NDF : 39636.6/15

Left Out: -41.437+/-0.054 χ^2/NDF : 3679.5/2

Right Out: -29.250+/-0.038 χ^2/NDF : 95235.9/18

Left In: -39.067+/-0.056 χ^2/NDF : 1447.0/1

Left: -40.290+/-0.039 χ^2/NDF : 6059.1/4

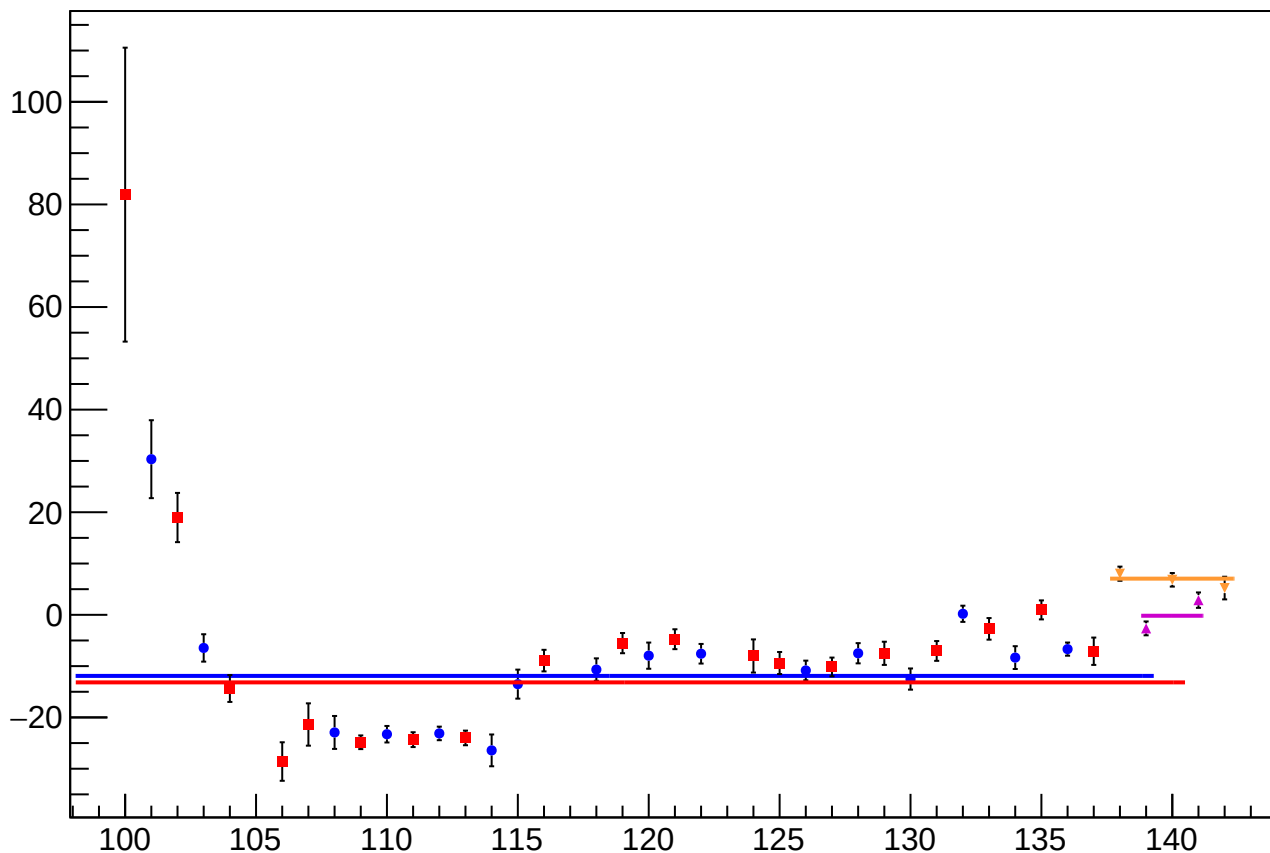
Right: -30.485+/-0.027 χ^2/NDF : 136941.1/34

In: -34.097+/-0.032 χ^2/NDF : 52825.7/17

Out: -33.349+/-0.031 χ^2/NDF : 132747.4/21

All: -33.718+/-0.022 χ^2/NDF : 185855.3/39

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.906 ± 0.497 χ^2/NDF : 282.1/15

Left Out: 7.054 ± 0.877 χ^2/NDF : 1.2/2

Right Out: -13.169 ± 0.480 χ^2/NDF : 421.5/18

Left In: -0.180 ± 1.005 χ^2/NDF : 7.4/1

Left: 3.927 ± 0.661 χ^2/NDF : 38.1/4

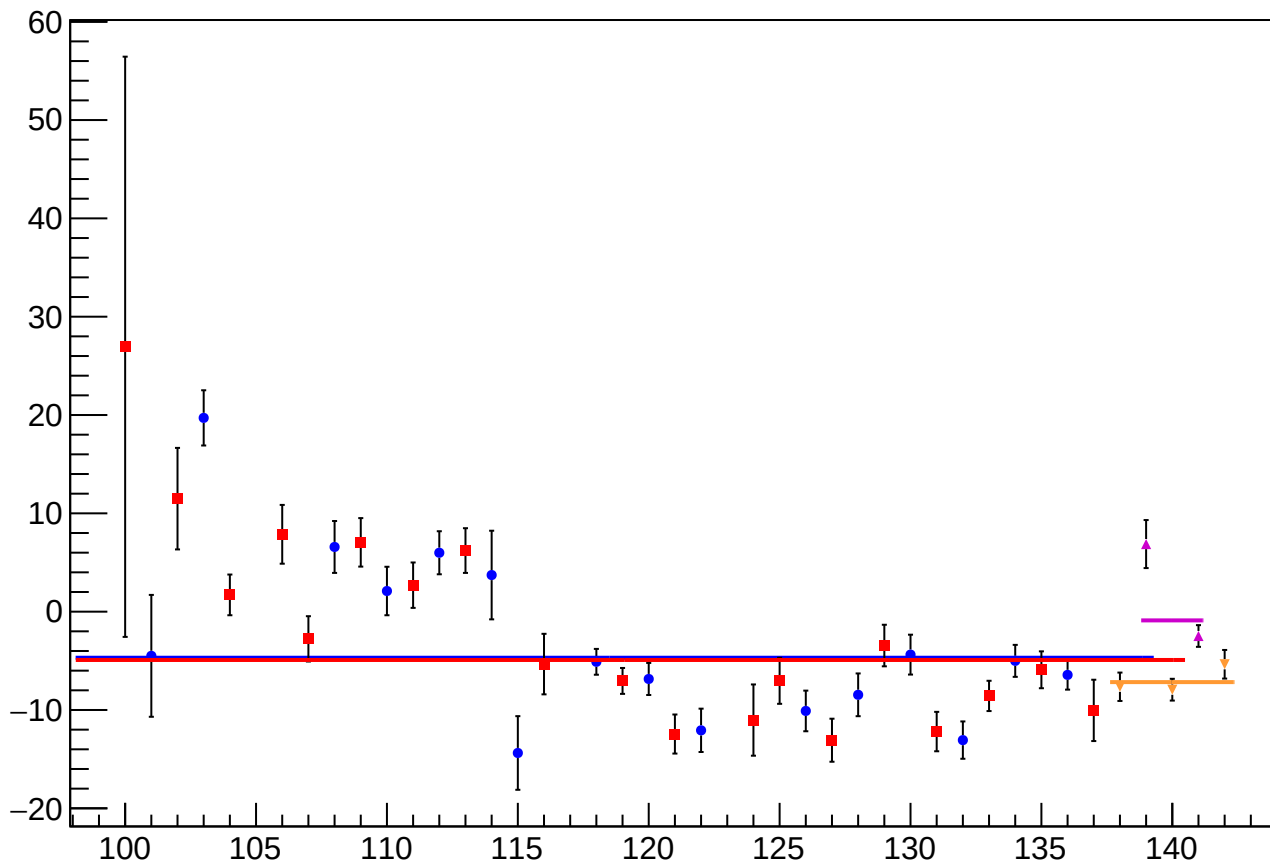
Right: -12.559 ± 0.345 χ^2/NDF : 706.9/34

In: -9.603 ± 0.445 χ^2/NDF : 398.9/17

Out: -8.503 ± 0.421 χ^2/NDF : 832.0/21

All: -9.023 ± 0.306 χ^2/NDF : 1234.2/39

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.686 ± 0.517 χ^2/NDF : 179.0/15

Left Out: -7.164 ± 0.752 χ^2/NDF : 2.1/2

Right Out: -4.913 ± 0.513 χ^2/NDF : 155.9/18

Left In: -0.888 ± 1.006 χ^2/NDF : 12.2/1

Left: -4.914 ± 0.602 χ^2/NDF : 39.3/4

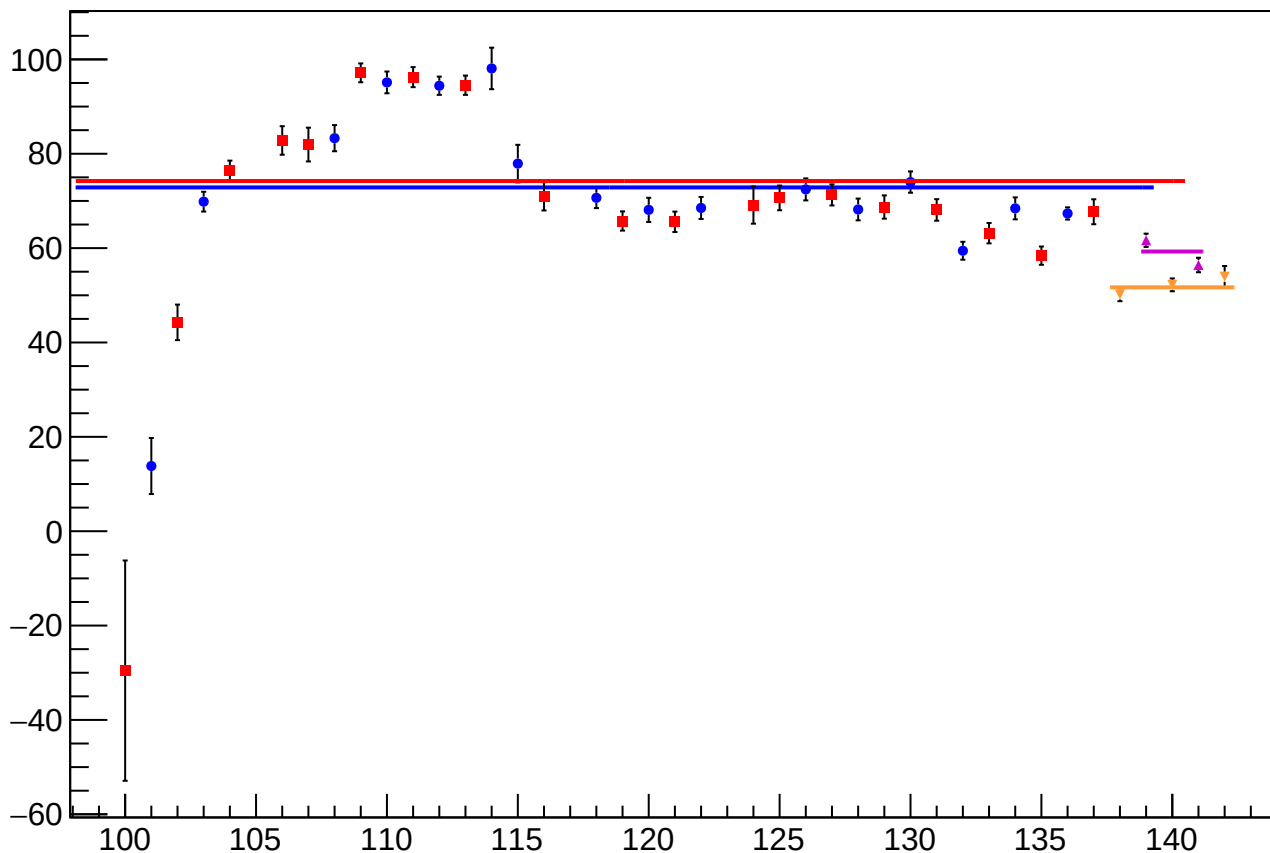
Right: -4.801 ± 0.364 χ^2/NDF : 335.0/34

In: -3.893 ± 0.460 χ^2/NDF : 202.5/17

Out: -5.628 ± 0.424 χ^2/NDF : 164.1/21

All: -4.831 ± 0.312 χ^2/NDF : 374.3/39

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 72.866+/-0.565 χ^2/NDF : 450.7/15

Left Out: 51.687+/-0.908 χ^2/NDF : 2.2/2

Right Out: 74.217+/-0.562 χ^2/NDF : 586.2/18

Left In: 59.277+/-1.040 χ^2/NDF : 6.3/1

Left: 54.970+/-0.684 χ^2/NDF : 38.7/4

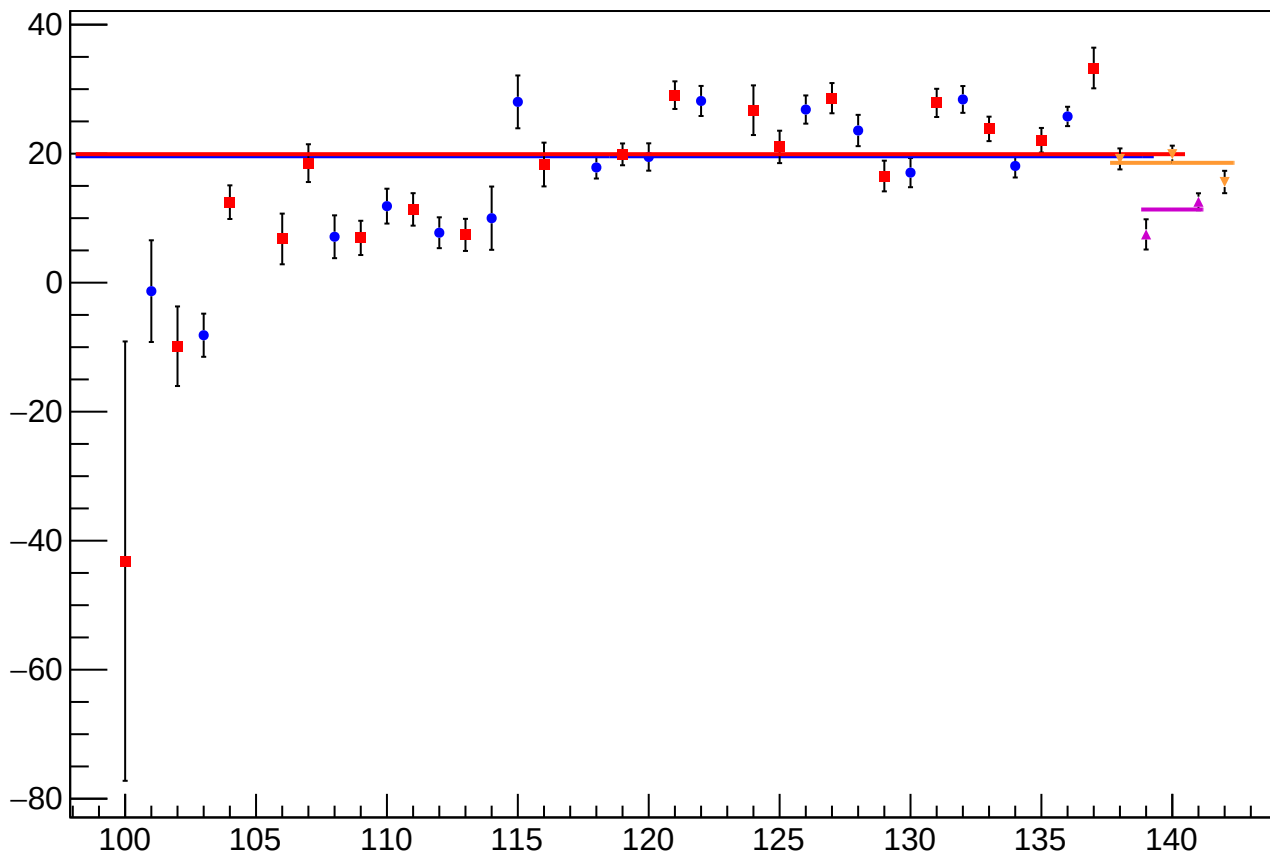
Right: 73.545+/-0.399 χ^2/NDF : 1039.8/34

In: 69.765+/-0.497 χ^2/NDF : 588.8/17

Out: 67.967+/-0.478 χ^2/NDF : 1033.8/21

All: 68.832+/-0.344 χ^2/NDF : 1629.4/39

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 19.598+/-0.585 χ^2/NDF : 196.0/15

Left Out: 18.579+/-0.884 χ^2/NDF : 4.1/2

Right Out: 19.919+/-0.585 χ^2/NDF : 181.3/18

Left In: 11.342+/-1.143 χ^2/NDF : 3.6/1

Left: 15.871+/-0.699 χ^2/NDF : 32.7/4

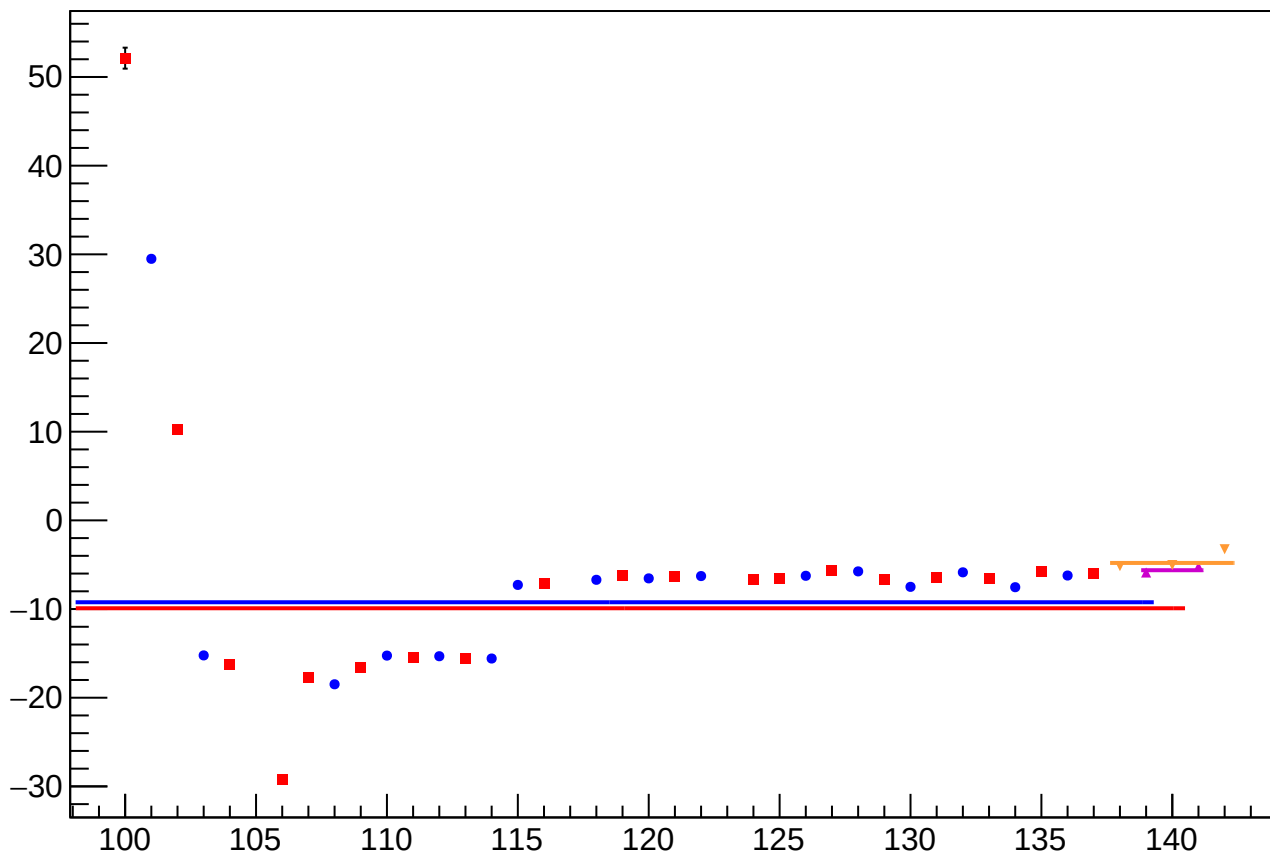
Right: 19.759+/-0.414 χ^2/NDF : 377.5/34

In: 17.883+/-0.521 χ^2/NDF : 240.9/17

Out: 19.511+/-0.488 χ^2/NDF : 187.0/21

All: 18.750+/-0.356 χ^2/NDF : 433.1/39

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -9.235+/-0.033 χ^2/NDF : 31159.3/15

Left Out: -4.802+/-0.038 χ^2/NDF :332.3/2

Right Out: -9.913+/-0.034 χ^2/NDF : 53863.3/18

Left In: -5.622+/-0.039 χ^2/NDF :66.6/1

Left: -5.196+/-0.027 χ^2/NDF : 625.6/4

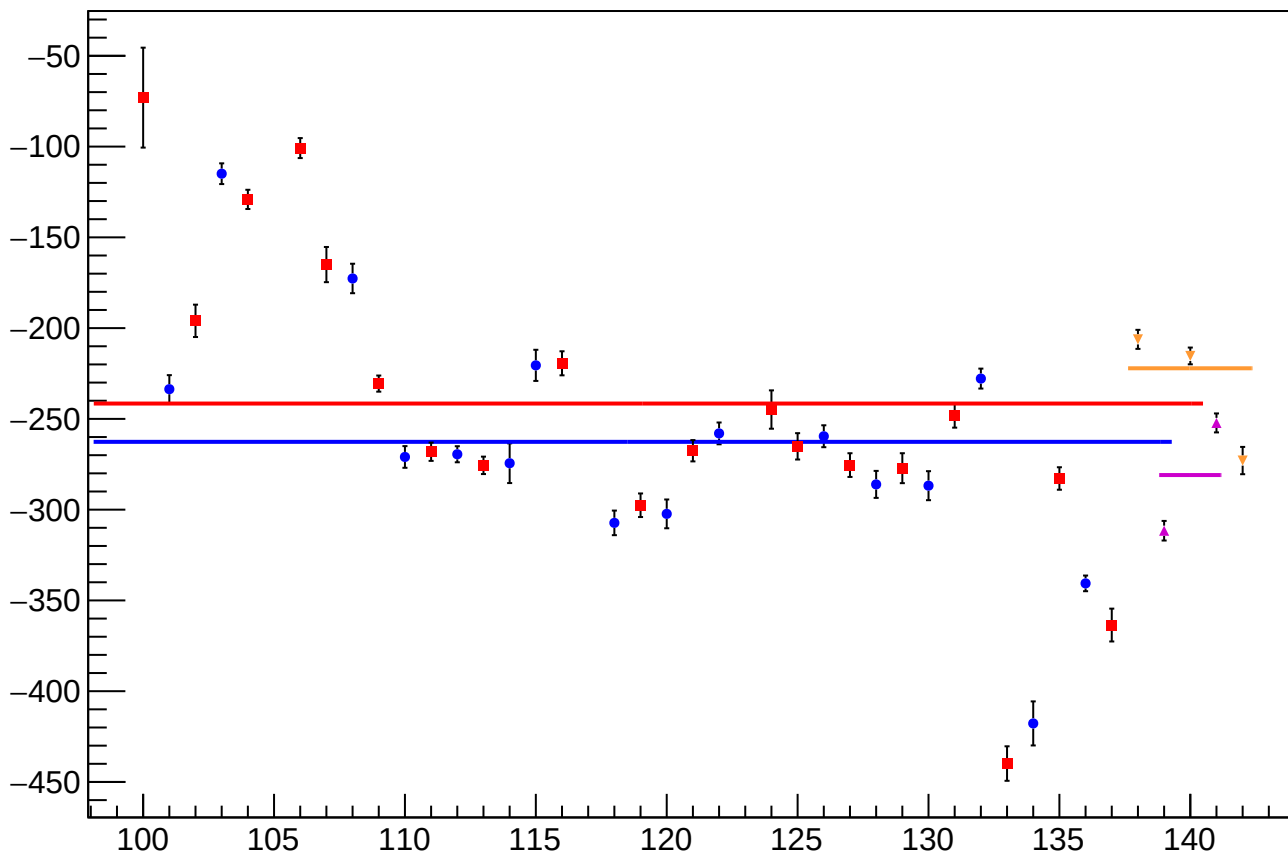
Right: -9.558+/-0.024 χ^2/NDF : 85225.4/34

In: -7.749+/-0.025 χ^2/NDF :36204.1/17

Out: -7.593+/-0.025 χ^2/NDF :64197.3/21

All: -7.671+/-0.018 χ^2/NDF : 100420.3/39

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -262.643+/-1.614 χ^2/NDF : 1454.3/15

Left Out: -222.125+/-3.147 χ^2/NDF : 57.1/2

Right Out: -241.548+/-1.506 χ^2/NDF : 2138.6/18

Left In: -280.934+/-3.755 χ^2/NDF : 62.5/1

Left: -246.389+/-2.412 χ^2/NDF : 263.6/4

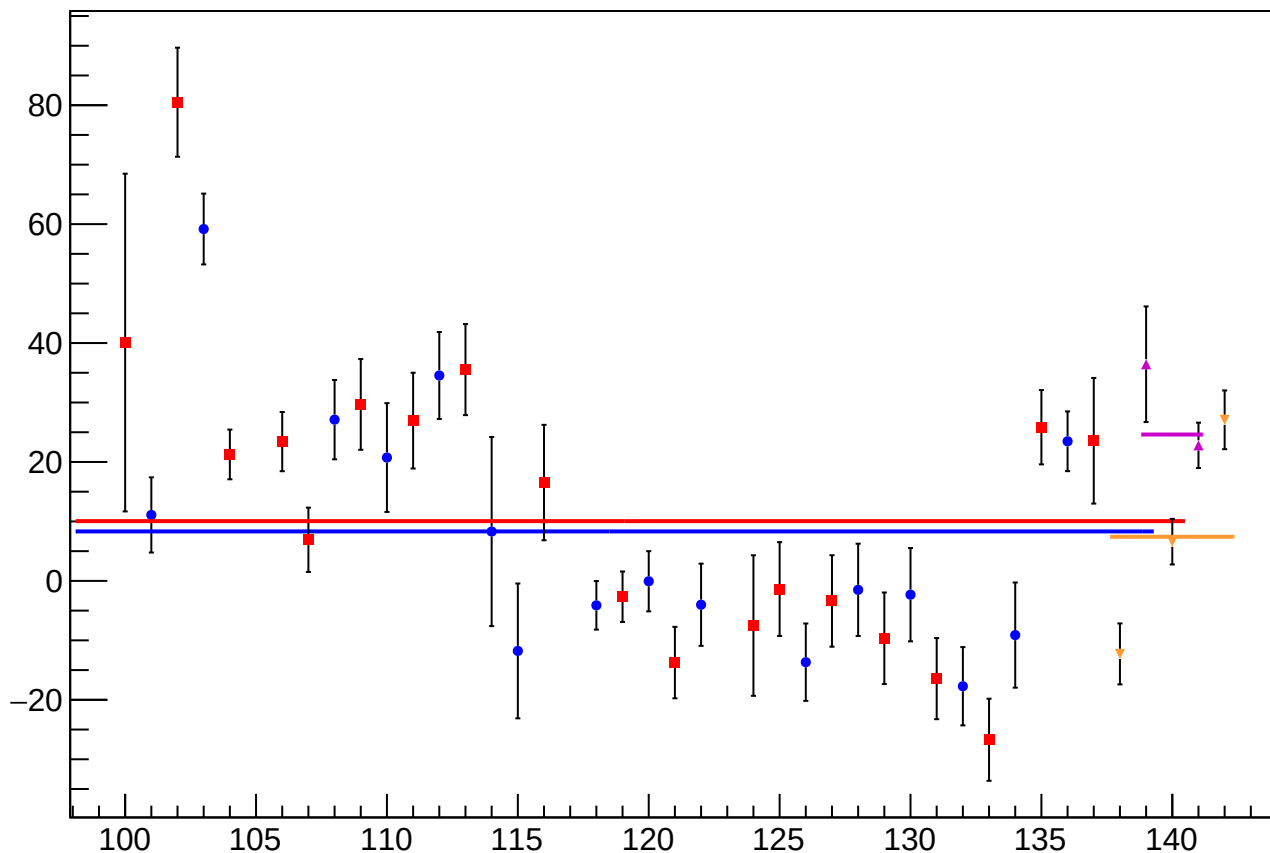
Right: -251.368+/-1.101 χ^2/NDF : 3684.2/34

In: -265.495+/-1.483 χ^2/NDF : 1536.8/17

Out: -237.929+/-1.359 χ^2/NDF : 2226.6/21

All: -250.510+/-1.002 χ^2/NDF : 3951.3/39

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.320 ± 1.644 χ^2/NDF : 157.6/15

Left Out: 7.422 ± 2.608 χ^2/NDF : 30.7/2

Right Out: 10.052 ± 1.539 χ^2/NDF : 187.4/18

Left In: 24.614 ± 3.553 χ^2/NDF : 1.7/1

Left: 13.441 ± 2.102 χ^2/NDF : 47.6/4

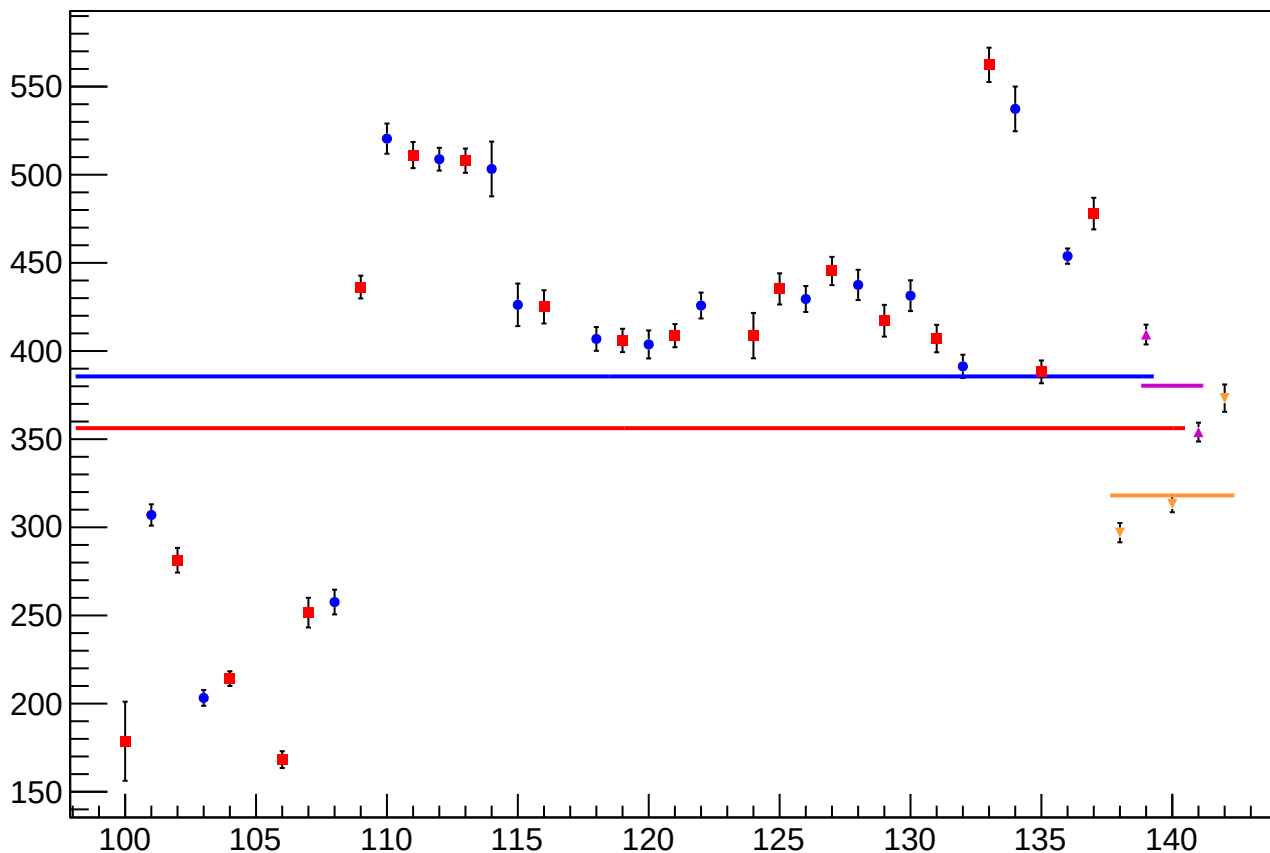
Right: 9.243 ± 1.123 χ^2/NDF : 345.7/34

In: 11.193 ± 1.492 χ^2/NDF : 176.7/17

Out: 9.373 ± 1.325 χ^2/NDF : 218.8/21

All: 10.176 ± 0.991 χ^2/NDF : 396.3/39

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 385.590+/-1.742 χ^2/NDF : 3373.1/15

Left Out: 318.074+/-3.254 χ^2/NDF : 66.6/2

Right Out: 356.245+/-1.647 χ^2/NDF : 5270.3/18

Left In: 380.327+/-3.882 χ^2/NDF : 50.7/1

Left: 343.771+/-2.494 χ^2/NDF : 268.3/4

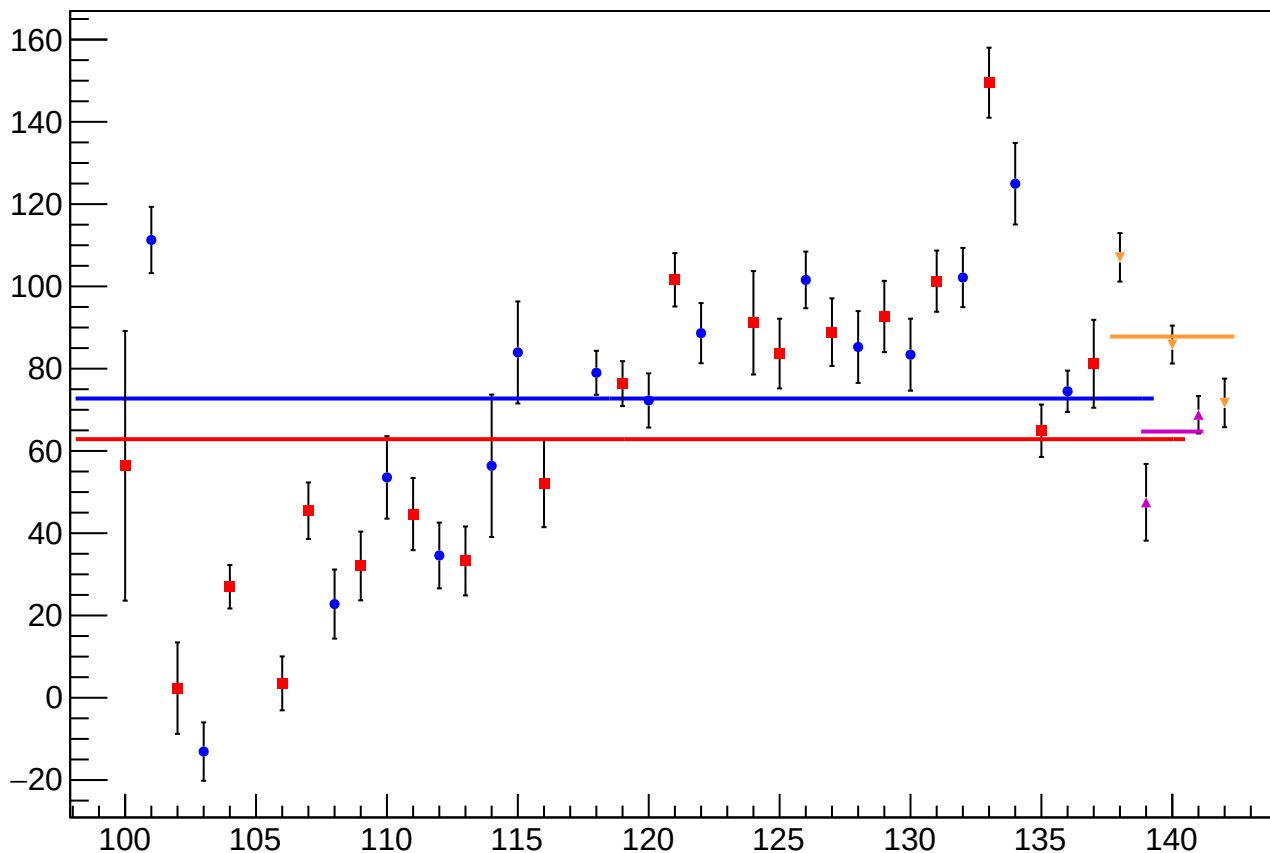
Right: 370.089+/-1.197 χ^2/NDF : 8793.2/34

In: 384.708+/-1.589 χ^2/NDF : 3425.3/17

Out: 348.465+/-1.469 χ^2/NDF : 5446.4/21

All: 365.163+/-1.079 χ^2/NDF : 9152.0/39

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 72.740 $\pm$ 1.897 χ^2 /NDF: 304.3/15

Left Out: 87.806 $\pm$ 3.093 χ^2 /NDF:18.3/2

Right Out: 62.863 $\pm$ 1.795 χ^2 /NDF: 403.6/18

Left In: 64.712 $\pm$ 4.085 χ^2 /NDF:4.2/1

Left: 79.391 $\pm$ 2.466 χ^2 /NDF: 42.9/4

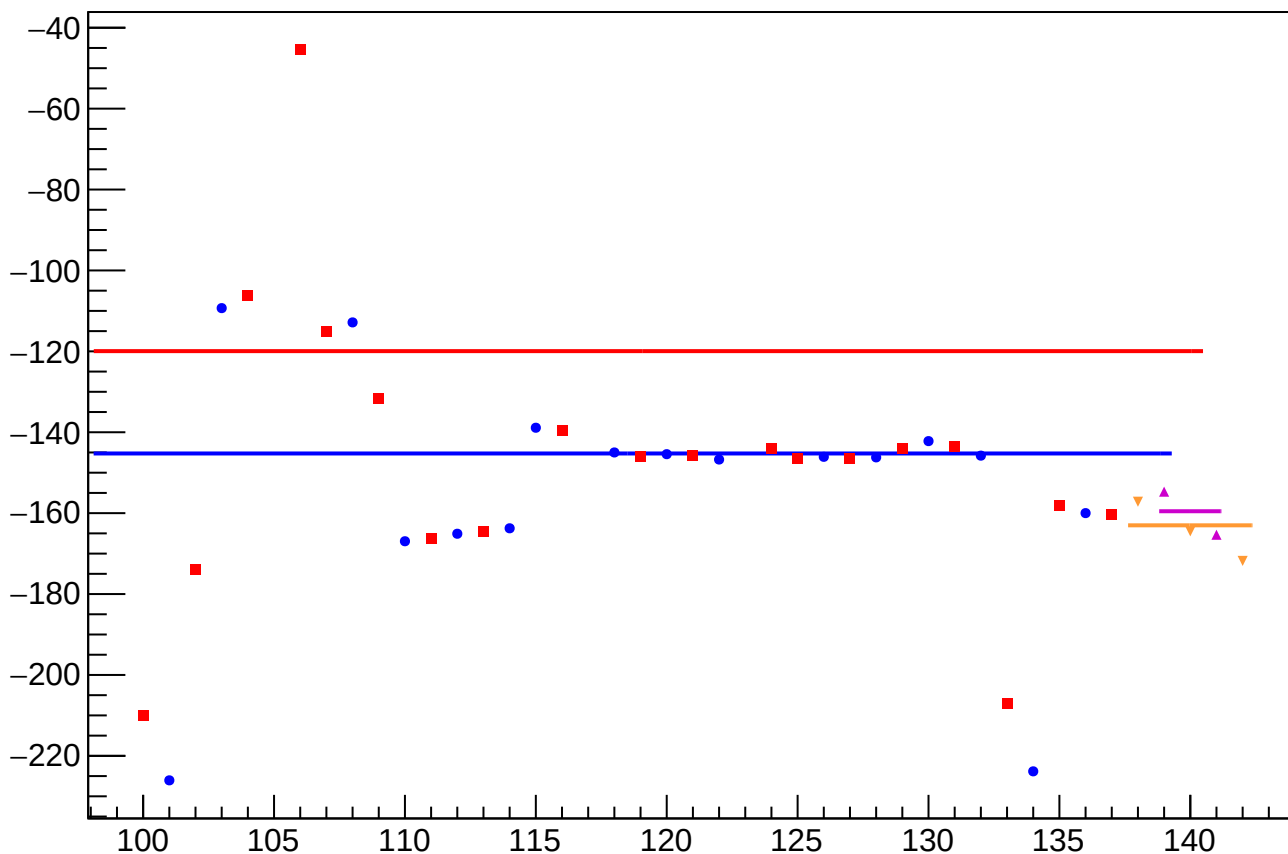
Right: 67.528 $\pm$ 1.304 χ^2 /NDF: 722.2/34

In: 71.316 $\pm$ 1.720 χ^2 /NDF:311.7/17

Out: 69.146 $\pm$ 1.552 χ^2 /NDF:470.6/21

All: 70.120 $\pm$ 1.153 χ^2 /NDF: 783.2/39

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -145.246+/-0.098 χ^2/NDF : 132057.3/15

Left Out: -163.009+/-0.138 χ^2/NDF : 1513.8/2

Right Out: -119.947+/-0.089 χ^2/NDF : 270354.1/18

Left In: -159.528+/-0.148 χ^2/NDF : 1277.3/1

Left: -161.398+/-0.101 χ^2/NDF : 3086.9/4

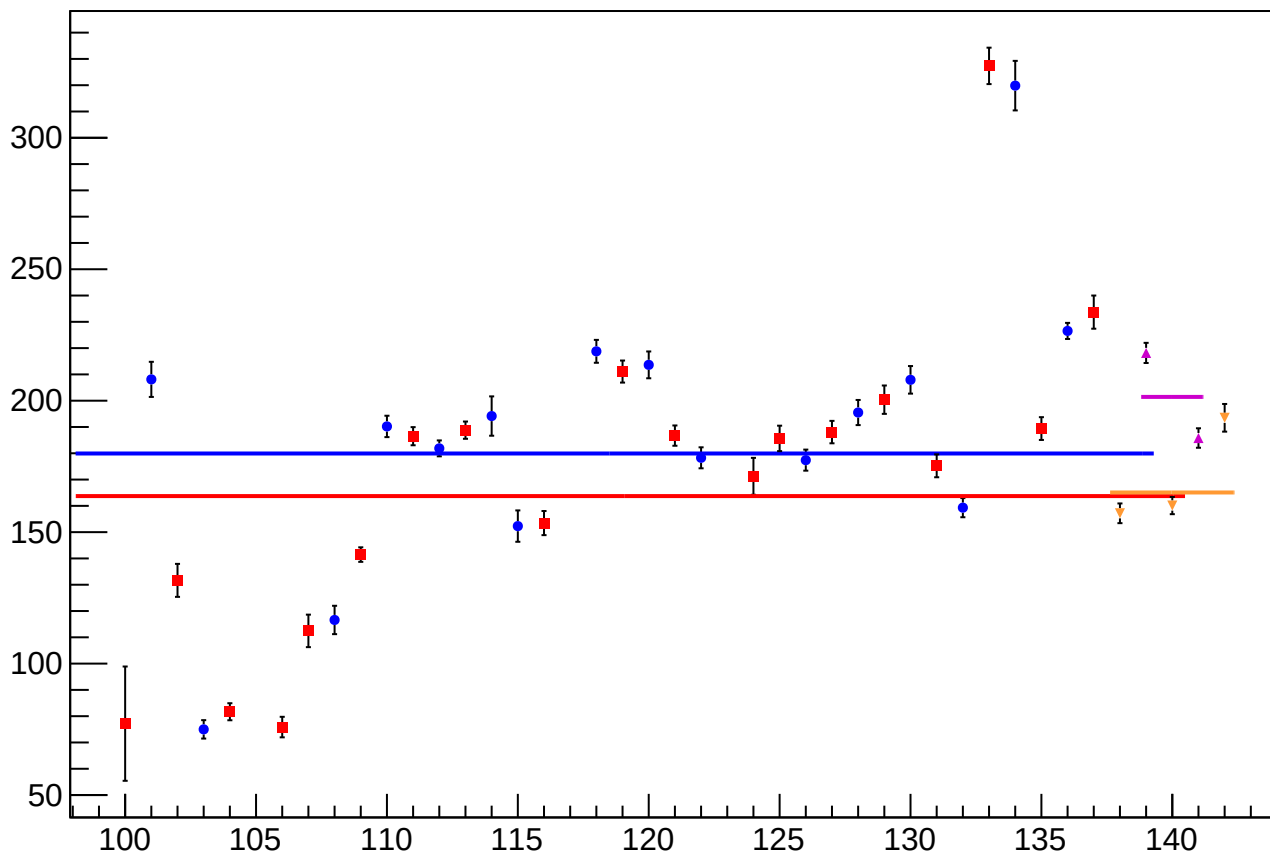
Right: -131.335+/-0.066 χ^2/NDF : 438808.7/34

In: -149.606+/-0.082 χ^2/NDF : 139772.8/17

Out: -132.630+/-0.075 χ^2/NDF : 340866.8/21

All: -140.336+/-0.055 χ^2/NDF : 504062.2/39

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 179.918 $\pm$ 1.089 χ^2 /NDF: 1732.7/15

Left Out: 165.089 $\pm$ 2.234 χ^2 /NDF:35.9/2

Right Out: 163.718 $\pm$ 1.001 χ^2 /NDF: 2416.8/18

Left In: 201.443 $\pm$ 2.663 χ^2 /NDF:36.9/1

Left: 180.107 $\pm$ 1.712 χ^2 /NDF: 182.2/4

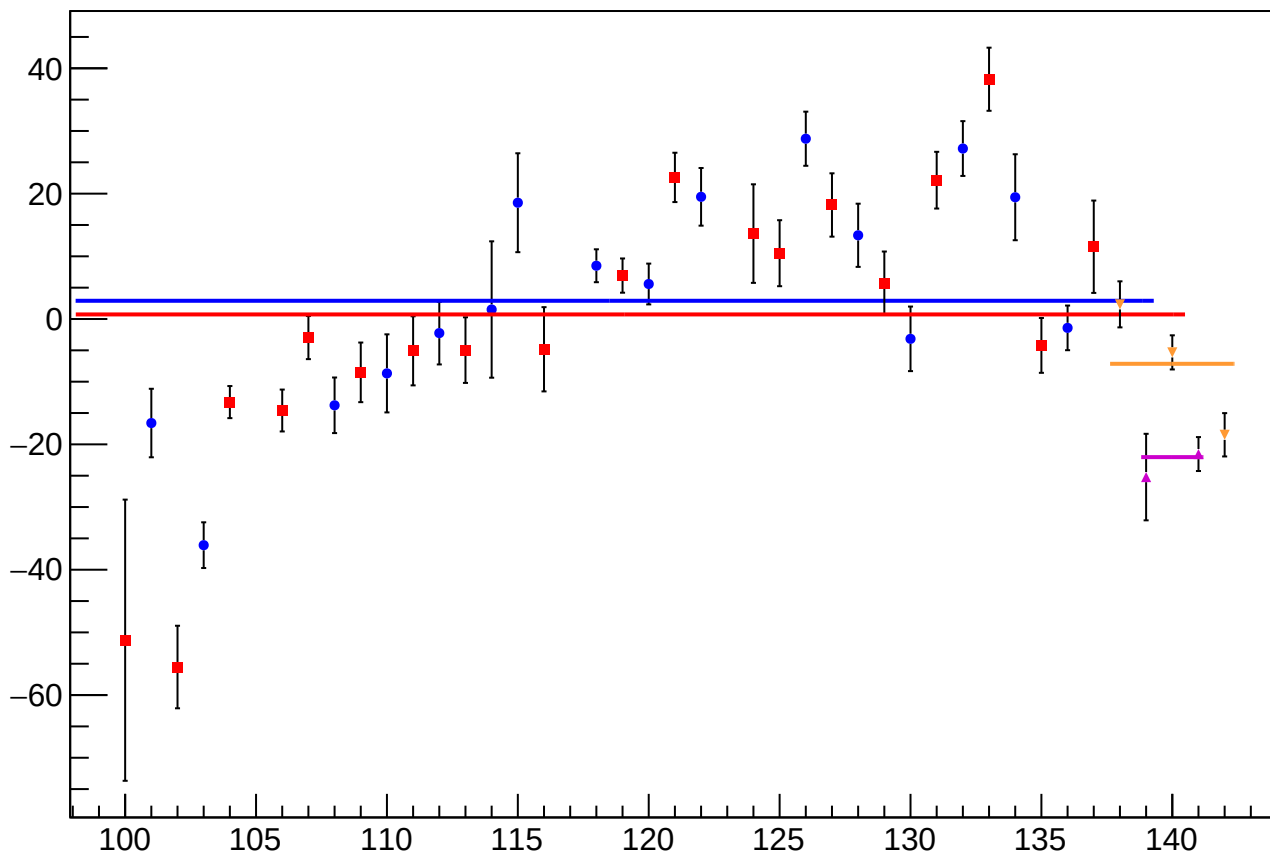
Right: 171.138 $\pm$ 0.737 χ^2 /NDF: 4269.5/34

In: 183.000 $\pm$ 1.008 χ^2 /NDF:1825.6/17

Out: 163.947 $\pm$ 0.913 χ^2 /NDF:2453.0/21

All: 172.540 $\pm$ 0.677 χ^2 /NDF: 4474.9/39

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.907 ± 1.105 χ^2/NDF : 247.5/15

Left Out: -7.148 ± 1.849 χ^2/NDF : 17.9/2

Right Out: 0.729 ± 1.012 χ^2/NDF : 273.6/18

Left In: -22.036 ± 2.520 χ^2/NDF : 0.2/1

Left: -12.357 ± 1.490 χ^2/NDF : 40.8/4

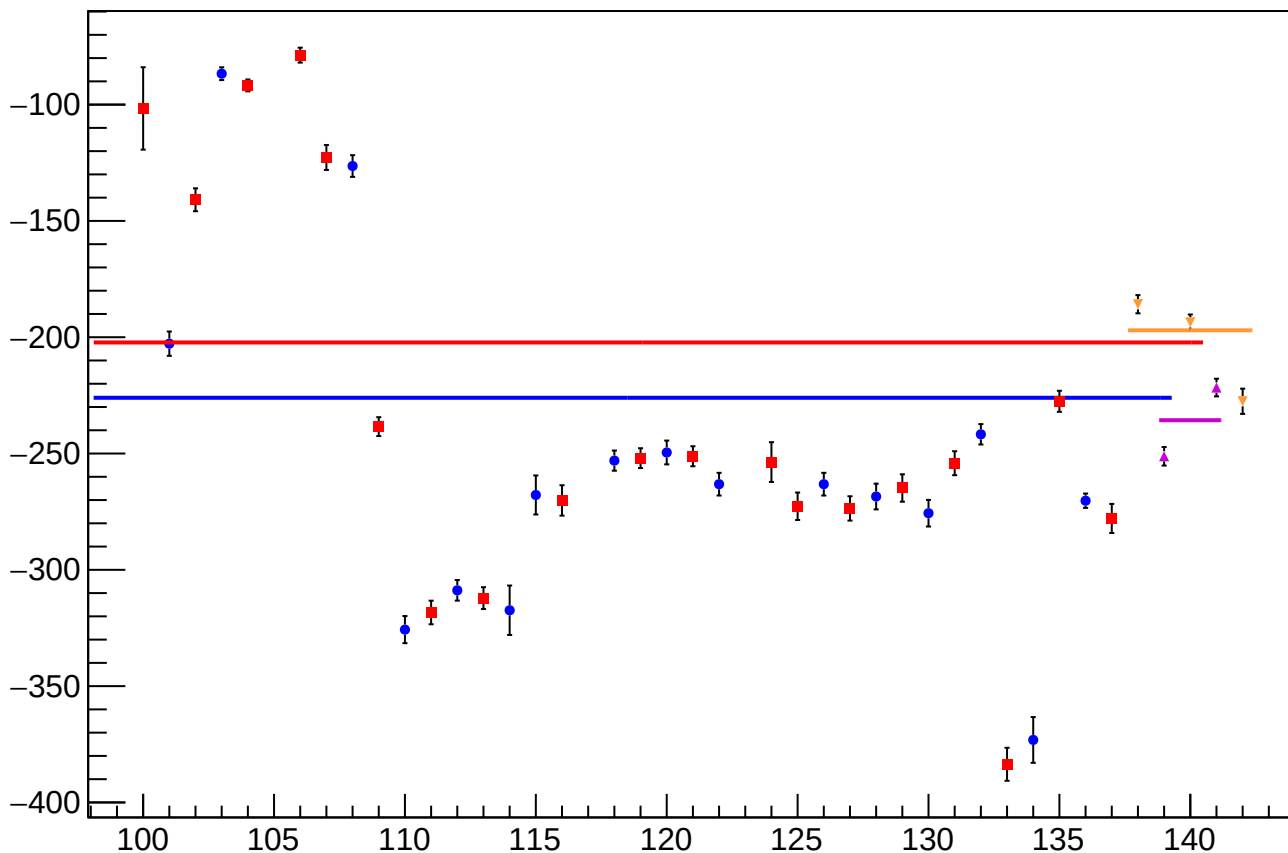
Right: 1.723 ± 0.746 χ^2/NDF : 523.2/34

In: -1.114 ± 1.012 χ^2/NDF : 329.9/17

Out: -1.088 ± 0.888 χ^2/NDF : 305.4/21

All: -1.099 ± 0.667 χ^2/NDF : 635.4/39

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -226.028+/-1.175 χ^2/NDF : 4539.0/15

Left Out: -197.035+/-2.310 χ^2/NDF : 40.9/2

Right Out: -202.247+/-1.087 χ^2/NDF : 6690.8/18

Left In: -235.676+/-2.753 χ^2/NDF : 28.7/1

Left: -213.005+/-1.770 χ^2/NDF : 185.2/4

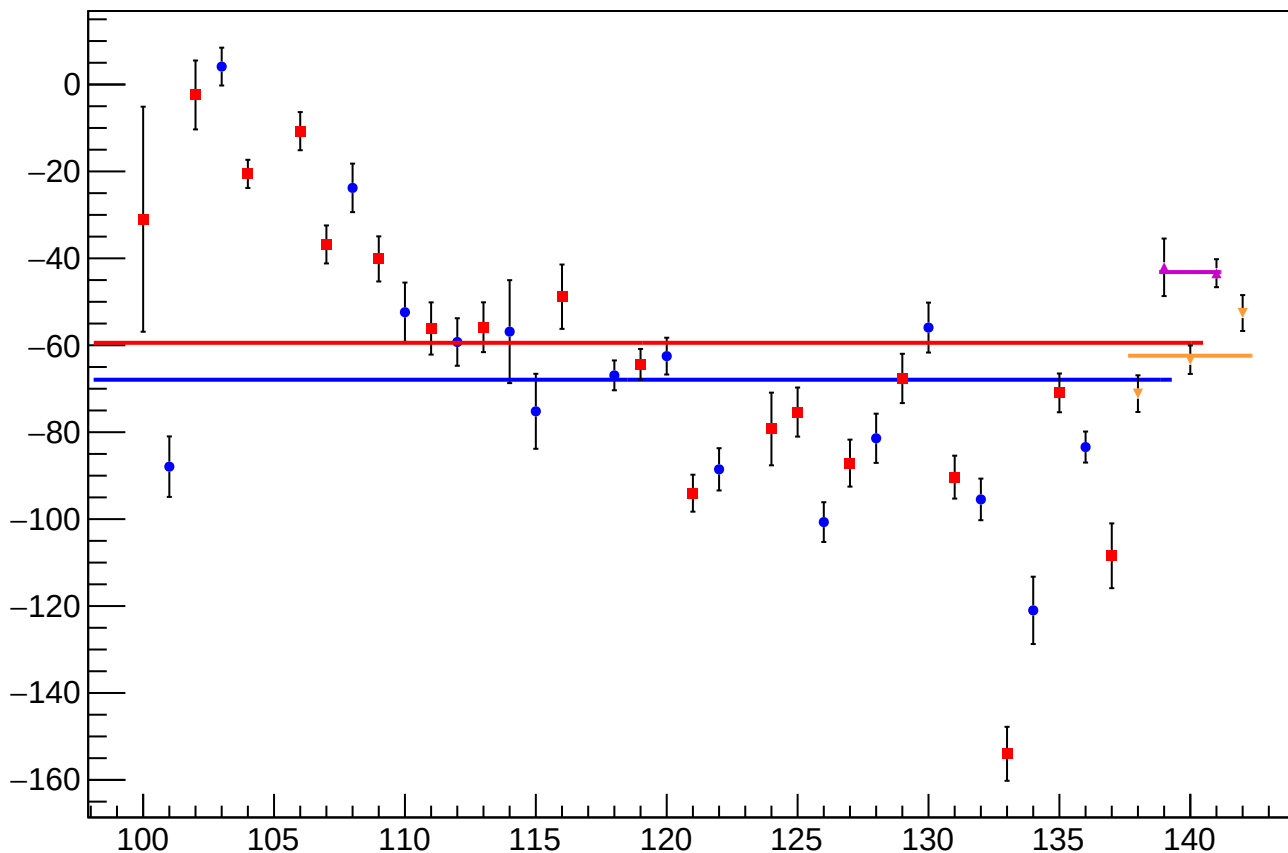
Right: -213.214+/-0.798 χ^2/NDF : 11450.5/34

In: -227.515+/-1.081 χ^2/NDF : 4578.2/17

Out: -201.303+/-0.984 χ^2/NDF : 6735.8/21

All: -213.179+/-0.727 χ^2/NDF : 11635.8/39

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -67.927 ± 1.278 $\chi^2/\text{NDF}: 534.0/15$

Left Out: -62.398 ± 2.192 $\chi^2/\text{NDF}: 10.0/2$

Right Out: -59.428 ± 1.184 $\chi^2/\text{NDF}: 794.9/18$

Left In: -43.157 ± 2.897 $\chi^2/\text{NDF}: 0.0/1$

Left: -55.392 ± 1.748 $\chi^2/\text{NDF}: 38.1/4$

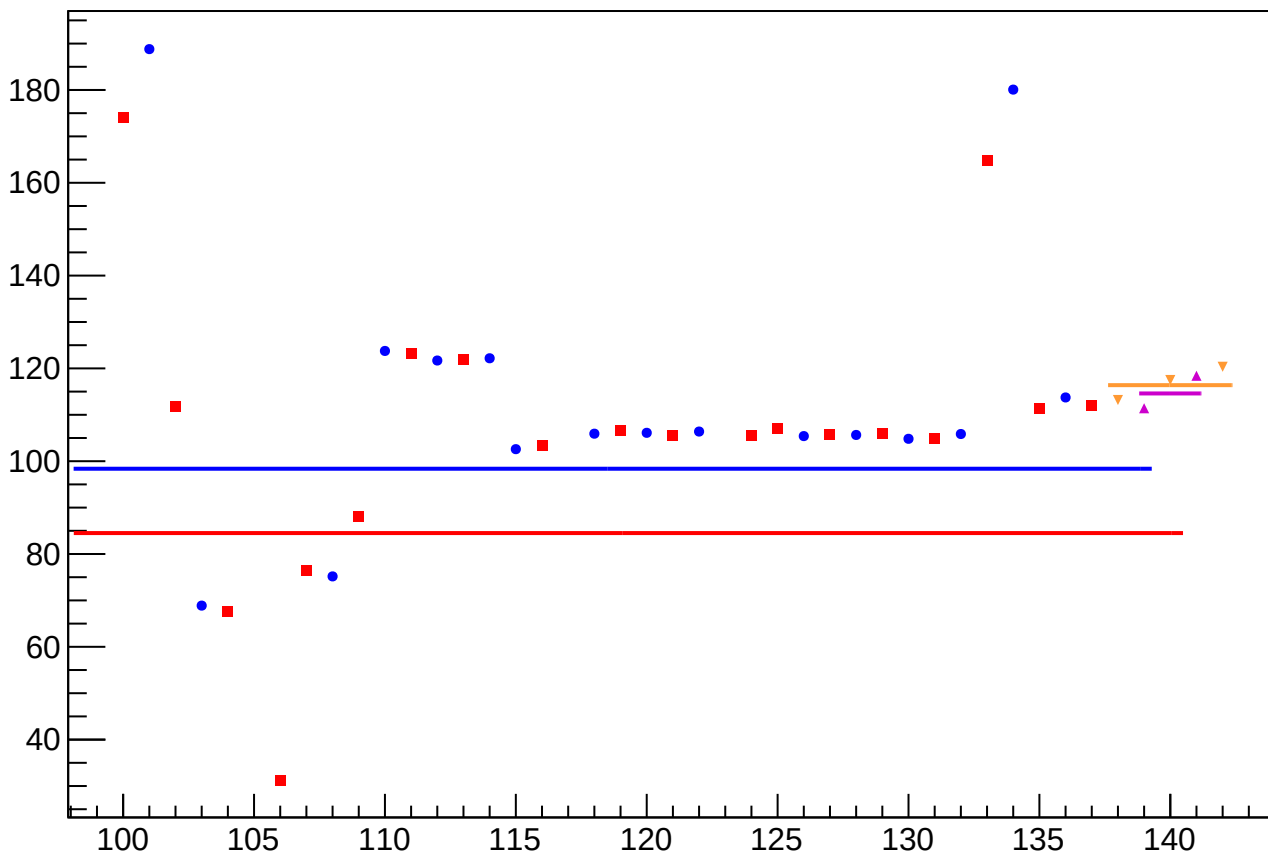
Right: -63.353 ± 0.869 $\chi^2/\text{NDF}: 1352.7/34$

In: -63.891 ± 1.169 $\chi^2/\text{NDF}: 595.3/17$

Out: -60.099 ± 1.042 $\chi^2/\text{NDF}: 806.3/21$

All: -61.777 ± 0.778 $\chi^2/\text{NDF}: 1407.4/39$

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.377+/-0.066 χ^2 /NDF: 228419.7/15

Left Out: 116.389+/-0.098 χ^2 /NDF: 783.9/2

Right Out: 84.512+/-0.061 χ^2 /NDF: 268911.0/18

Left In: 114.601+/-0.105 χ^2 /NDF: 1098.0/1

Left: 115.561+/-0.072 χ^2 /NDF: 2036.9/4

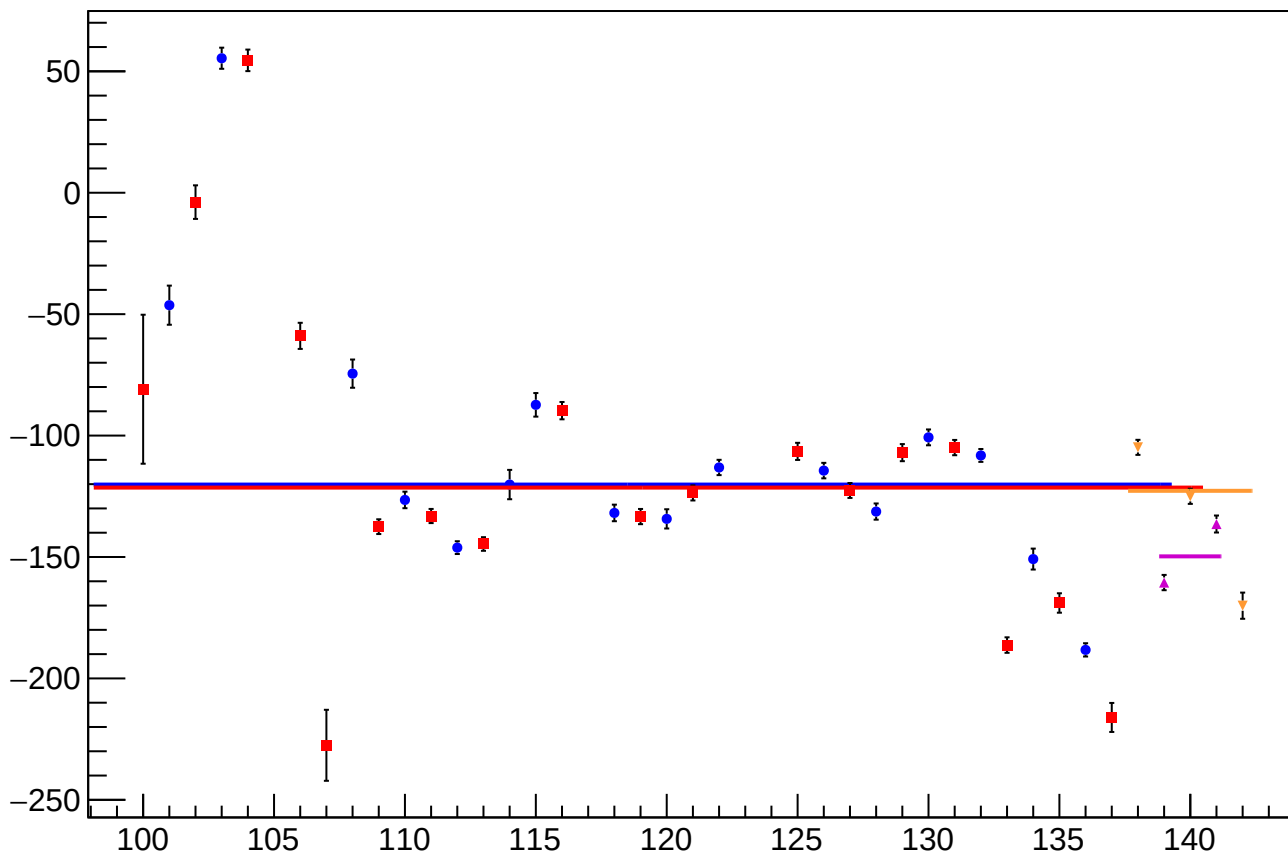
Right: 90.854+/-0.045 χ^2 /NDF: 521250.8/34

In: 102.961+/-0.056 χ^2 /NDF: 246567.8/17

Out: 93.373+/-0.052 χ^2 /NDF: 346536.0/21

All: 97.773+/-0.038 χ^2 /NDF: 608998.1/39

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -120.177+/-0.891 χ^2/NDF : 2691.2/15

Left Out: -122.748+/-2.035 χ^2/NDF :110.8/2

Right Out: -121.418+/-0.875 χ^2/NDF : 3126.3/17

Left In: -149.738+/-2.342 χ^2/NDF :26.2/1

Left: -134.360+/-1.536 χ^2/NDF : 212.7/4

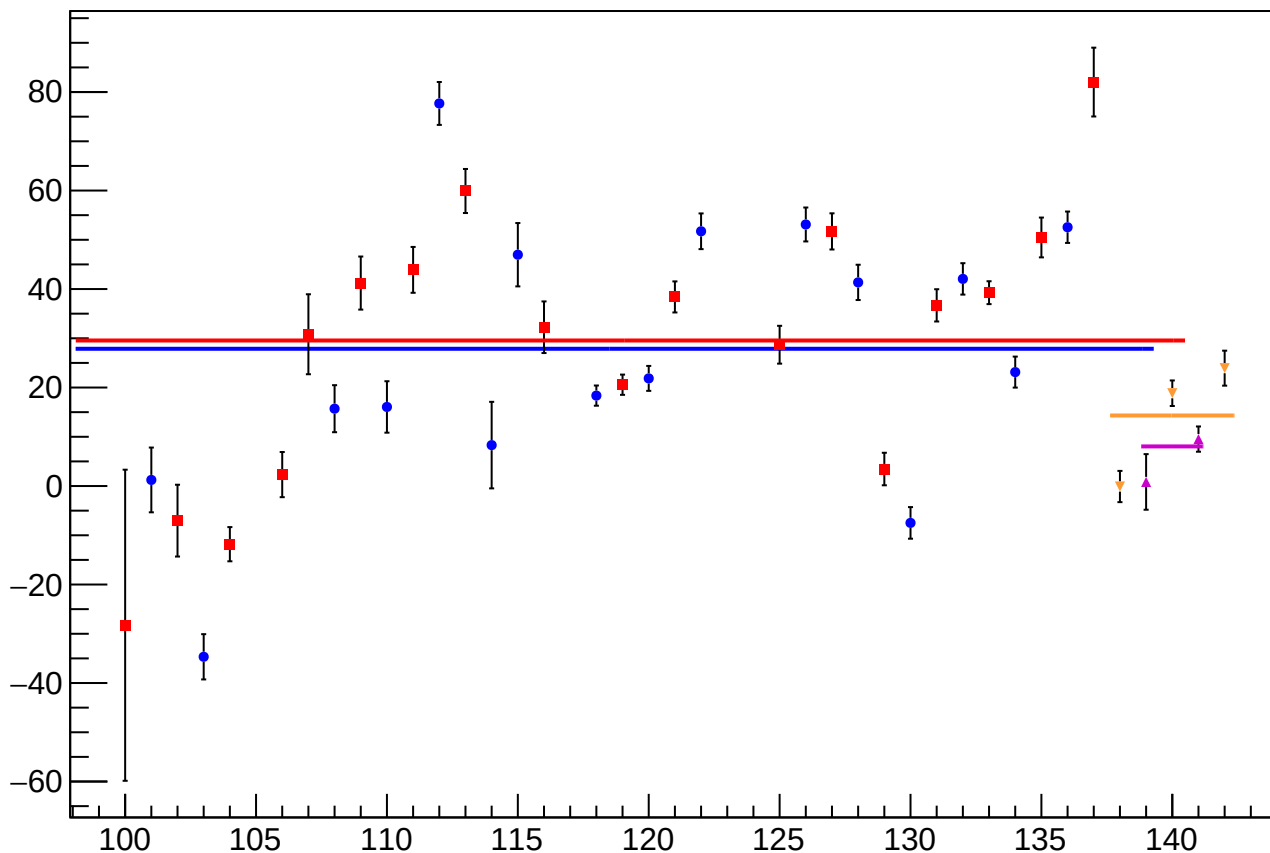
Right: -120.808+/-0.624 χ^2/NDF : 5818.5/33

In: -123.912+/-0.832 χ^2/NDF :2856.6/17

Out: -121.626+/-0.804 χ^2/NDF :3237.5/20

All: -122.729+/-0.578 χ^2/NDF : 6098.0/38

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 27.872 $\pm$ 0.888 χ^2 /NDF: 699.6/15

Left Out: 14.322 $\pm$ 1.748 χ^2 /NDF:31.0/2

Right Out: 29.553 $\pm$ 0.890 χ^2 /NDF: 497.5/17

Left In: 8.044 $\pm$ 2.335 χ^2 /NDF:2.0/1

Left: 12.068 $\pm$ 1.399 χ^2 /NDF: 37.7/4

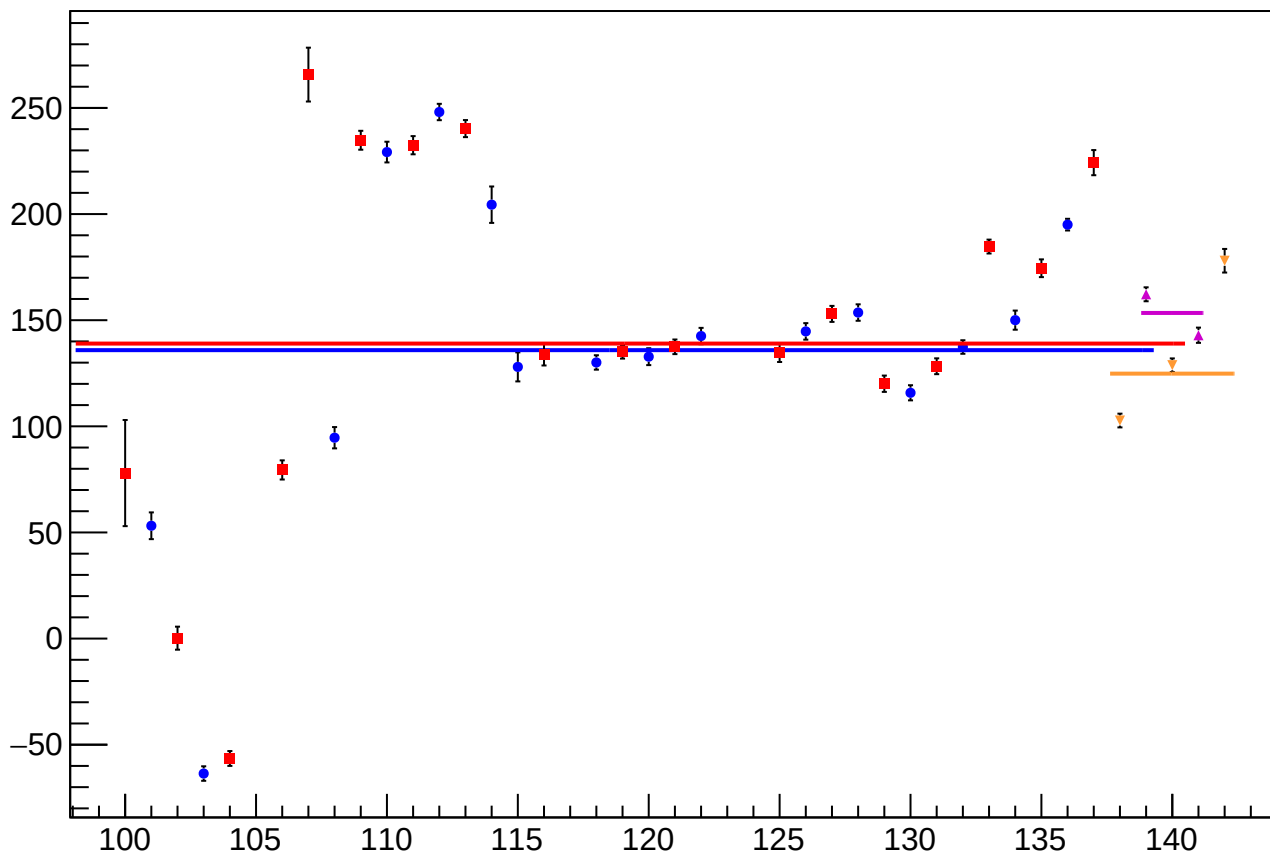
Right: 28.711 $\pm$ 0.629 χ^2 /NDF: 1198.9/33

In: 25.365 $\pm$ 0.830 χ^2 /NDF:764.6/17

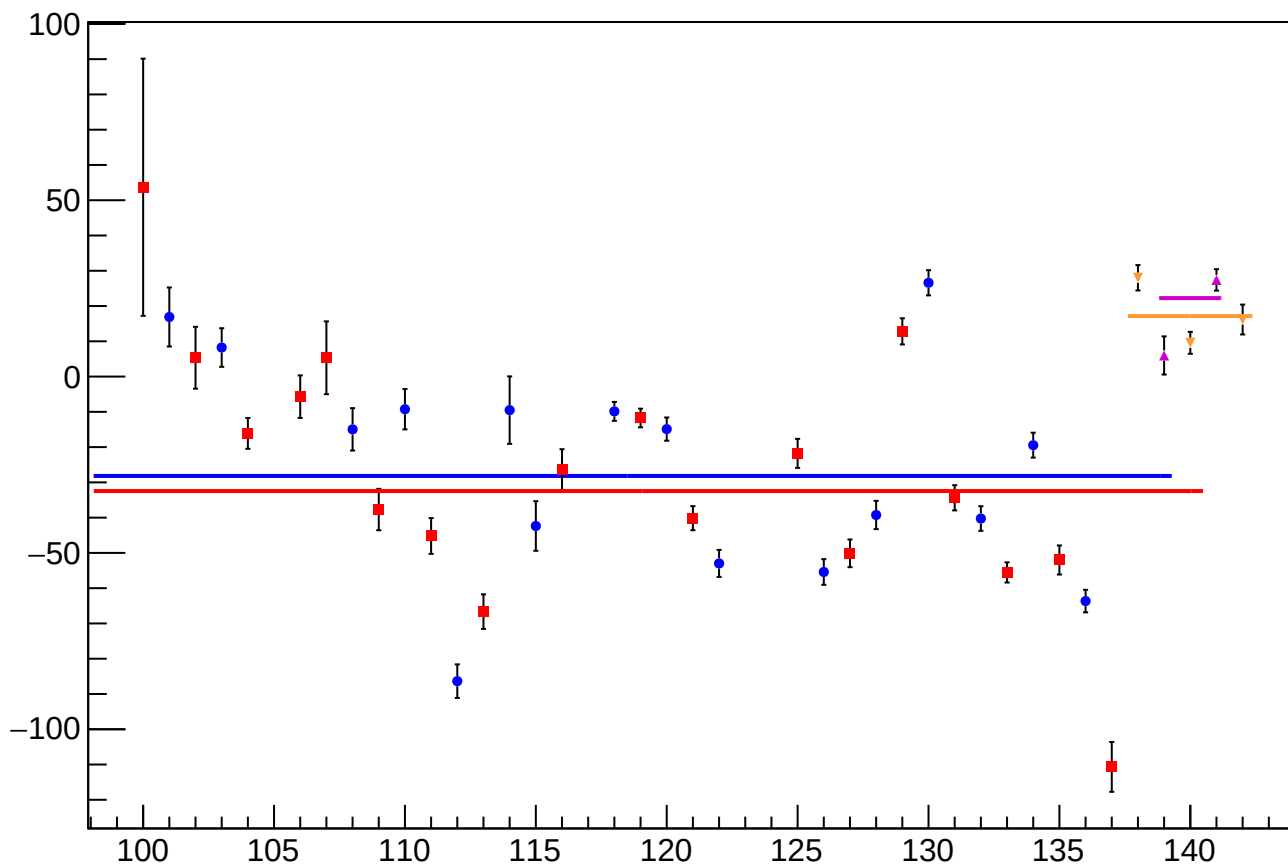
Out: 26.418 $\pm$ 0.793 χ^2 /NDF:588.8/20

All: 25.916 $\pm$ 0.573 χ^2 /NDF: 1354.3/38

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -28.175 ± 1.022 χ^2/NDF : 791.2/15

Left Out: 17.155 ± 2.058 χ^2/NDF : 15.1/2

Right Out: -32.459 ± 1.027 χ^2/NDF : 580.8/17

Left In: 22.251 ± 2.655 χ^2/NDF : 11.9/1

Left: 19.067 ± 1.627 χ^2/NDF : 29.3/4

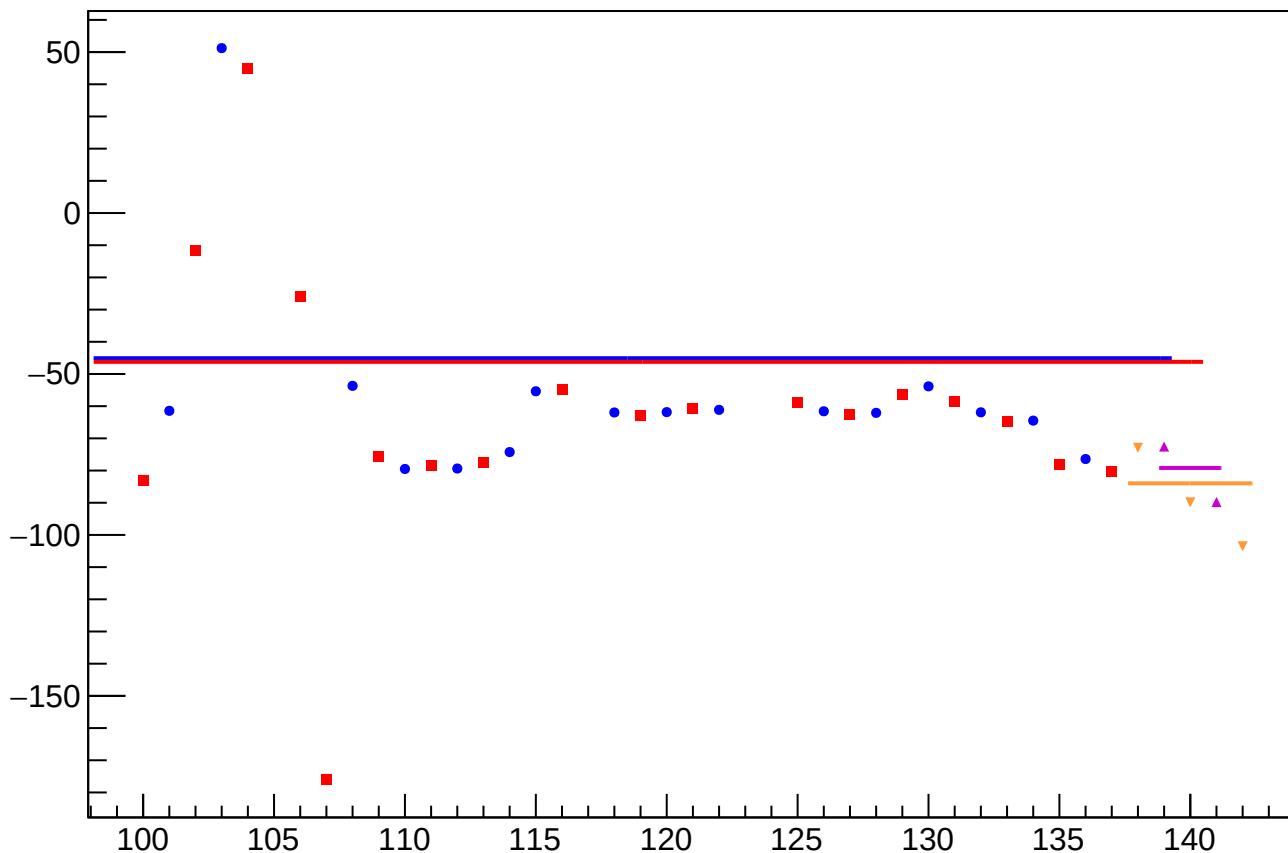
Right: -30.307 ± 0.725 χ^2/NDF : 1380.8/33

In: -21.667 ± 0.954 χ^2/NDF : 1117.2/17

Out: -22.560 ± 0.919 χ^2/NDF : 1061.3/20

All: -22.130 ± 0.662 χ^2/NDF : 2178.9/38

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -45.106 ± 0.060 $\chi^2/\text{NDF}: 575184.2/15$

Left Out: -83.973 ± 0.088 $\chi^2/\text{NDF}: 16485.4/2$

Right Out: -46.229 ± 0.063 $\chi^2/\text{NDF}: 493616.3/17$

Left In: -79.190 ± 0.091 $\chi^2/\text{NDF}: 8432.8/1$

Left: -81.669 ± 0.063 $\chi^2/\text{NDF}: 26338.8/4$

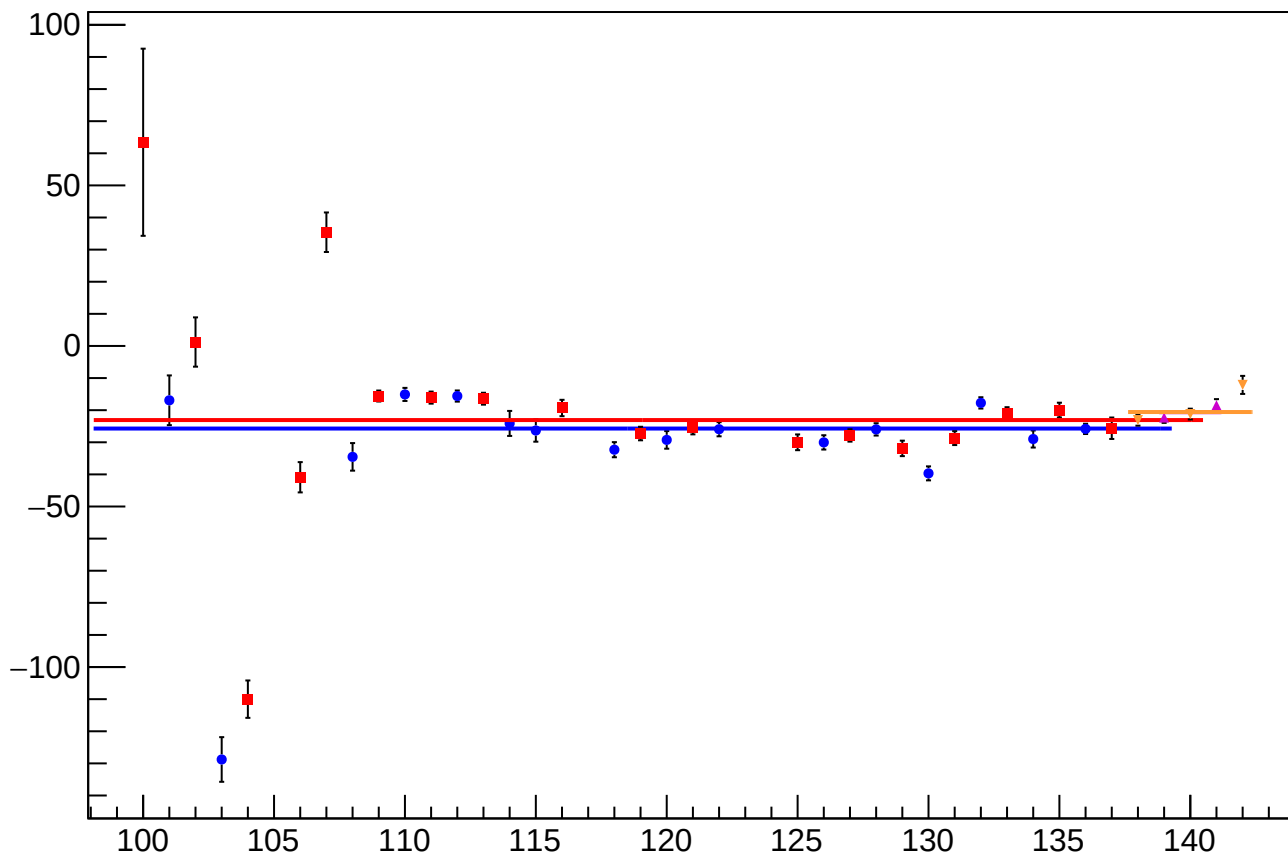
Right: -45.645 ± 0.043 $\chi^2/\text{NDF}: 1068967.9/33$

In: -55.411 ± 0.050 $\chi^2/\text{NDF}: 680752.9/17$

Out: -58.895 ± 0.051 $\chi^2/\text{NDF}: 632150.7/20$

All: -57.126 ± 0.036 $\chi^2/\text{NDF}: 1315272.0/38$

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -25.721 ± 0.590 $\chi^2/\text{NDF}: 363.0/15$

Left Out: -20.575 ± 1.108 $\chi^2/\text{NDF}: 11.3/2$

Right Out: -23.079 ± 0.582 $\chi^2/\text{NDF}: 437.1/17$

Left In: -20.631 ± 1.257 $\chi^2/\text{NDF}: 2.3/1$

Left: -20.599 ± 0.831 $\chi^2/\text{NDF}: 13.6/4$

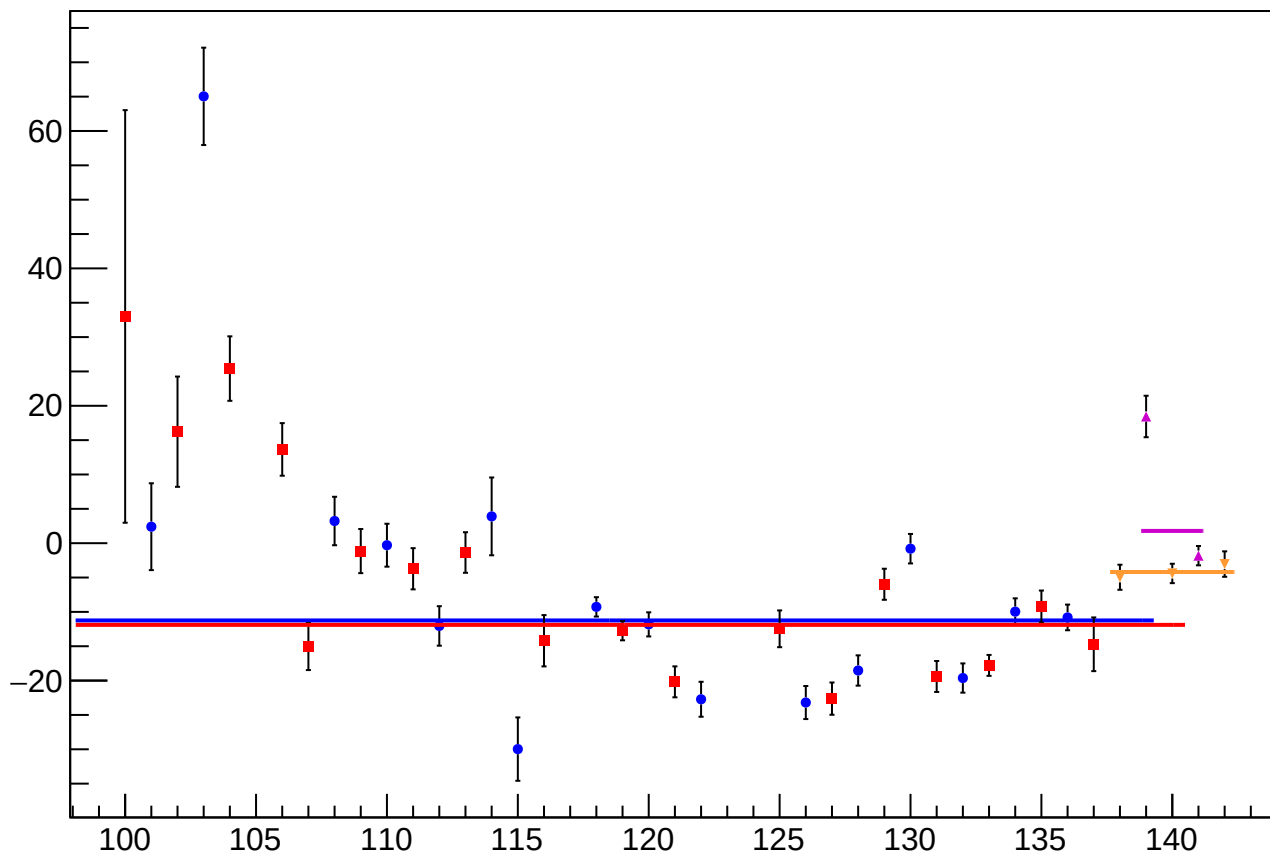
Right: -24.381 ± 0.414 $\chi^2/\text{NDF}: 810.3/33$

In: -24.802 ± 0.534 $\chi^2/\text{NDF}: 378.7/17$

Out: -22.538 ± 0.515 $\chi^2/\text{NDF}: 452.4/20$

All: -23.629 ± 0.371 $\chi^2/\text{NDF}: 840.4/38$

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.246 ± 0.600 χ^2/NDF : 271.1/15

Left Out: -4.193 ± 0.956 χ^2/NDF : 0.6/2

Right Out: -11.890 ± 0.607 χ^2/NDF : 224.5/17

Left In: 1.787 ± 1.273 χ^2/NDF : 37.0/1

Left: -2.037 ± 0.764 χ^2/NDF : 51.7/4

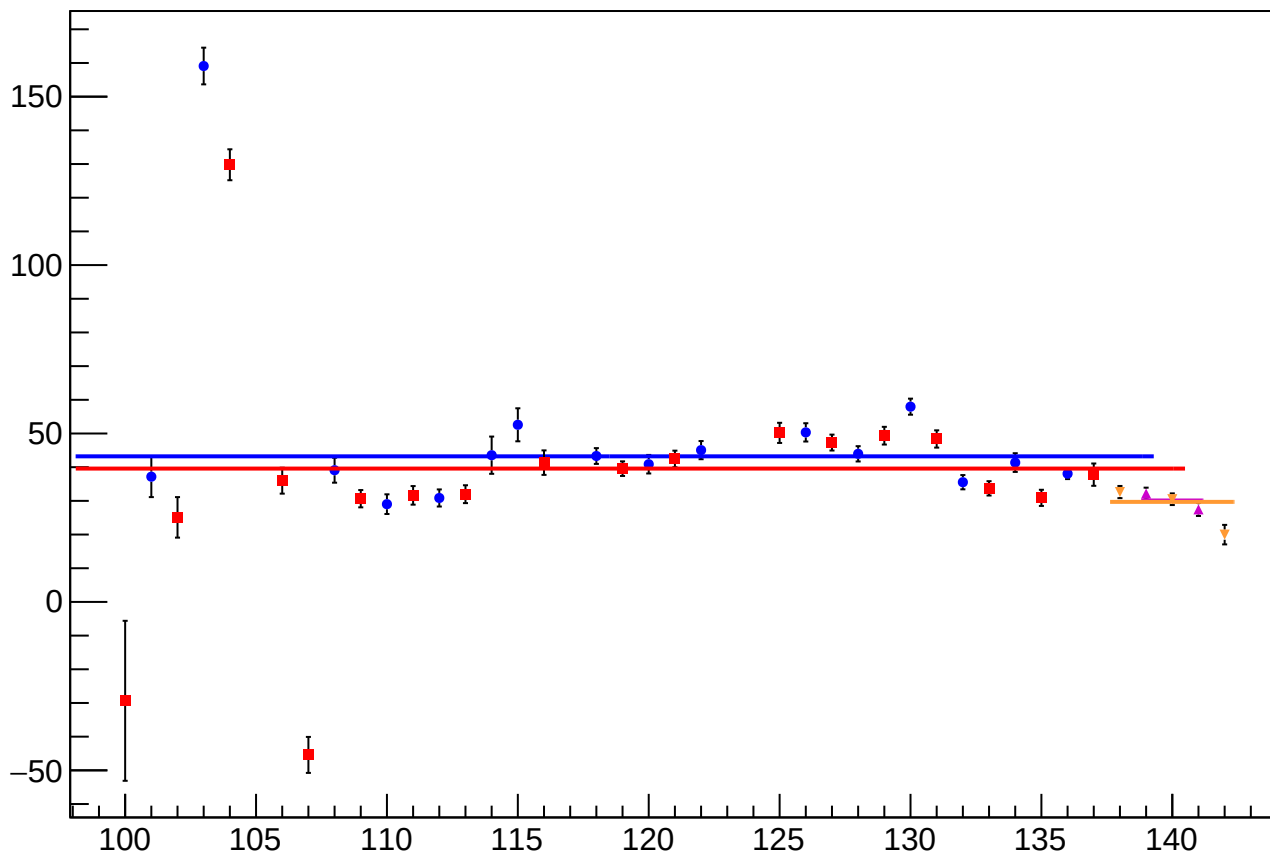
Right: -11.564 ± 0.427 χ^2/NDF : 496.1/33

In: -8.877 ± 0.543 χ^2/NDF : 393.9/17

Out: -9.678 ± 0.512 χ^2/NDF : 271.3/20

All: -9.300 ± 0.373 χ^2/NDF : 666.3/38

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 43.222 $\pm$ 0.678 χ^2 /NDF: 576.0/15

Left Out: 29.700 $\pm$ 1.147 χ^2 /NDF:14.1/2

Right Out: 39.587 $\pm$ 0.685 χ^2 /NDF: 754.0/17

Left In: 30.107 $\pm$ 1.301 χ^2 /NDF:3.2/1

Left: 29.878 $\pm$ 0.860 χ^2 /NDF: 17.4/4

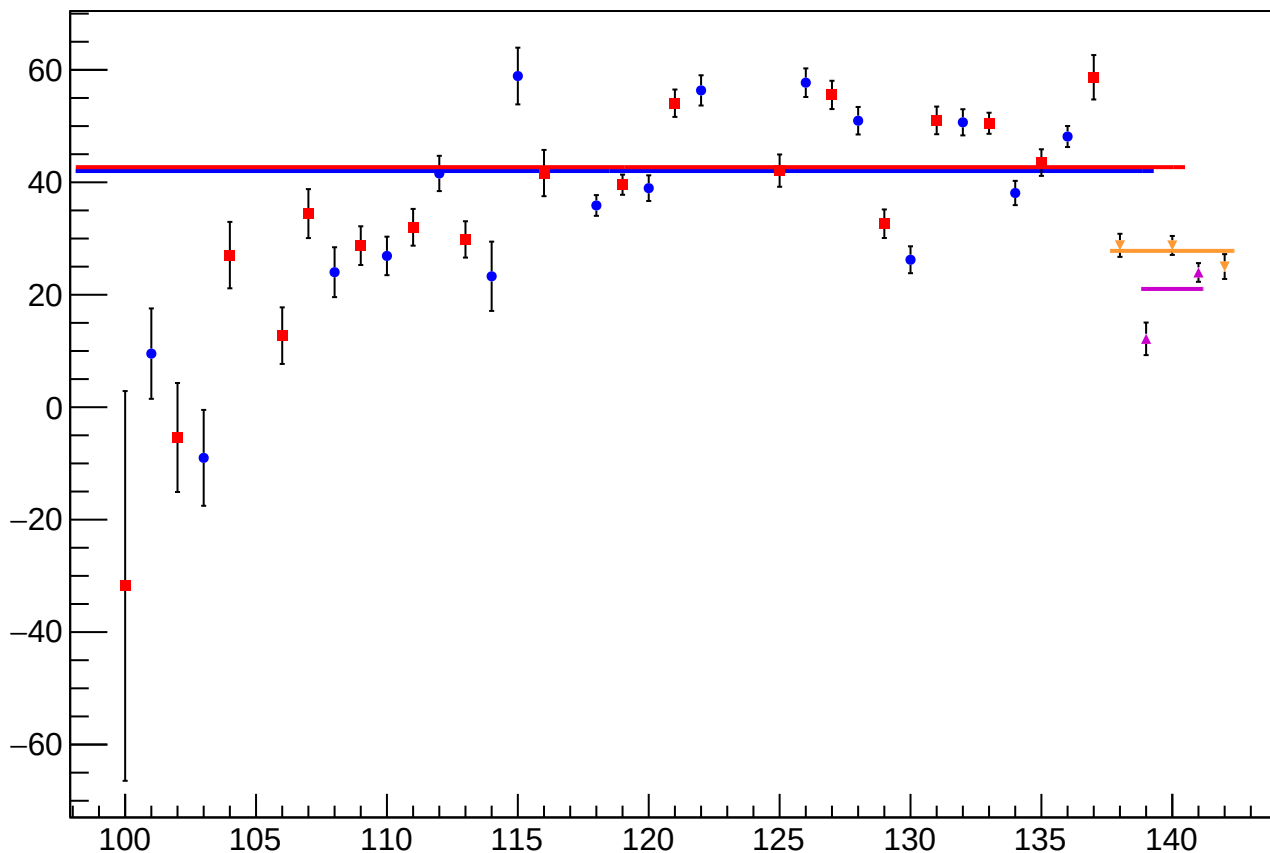
Right: 41.422 $\pm$ 0.482 χ^2 /NDF: 1344.2/33

In: 40.419 $\pm$ 0.601 χ^2 /NDF:659.2/17

Out: 36.991 $\pm$ 0.588 χ^2 /NDF:822.9/20

All: 38.666 $\pm$ 0.420 χ^2 /NDF: 1498.6/38

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.006 $\pm$ 0.684 χ^2 /NDF: 272.7/15

Left Out: 27.806 $\pm$ 1.122 χ^2 /NDF: 2.2/2

Right Out: 42.696 $\pm$ 0.695 χ^2 /NDF: 230.3/17

Left In: 21.034 $\pm$ 1.443 χ^2 /NDF: 12.5/1

Left: 25.254 $\pm$ 0.886 χ^2 /NDF: 28.4/4

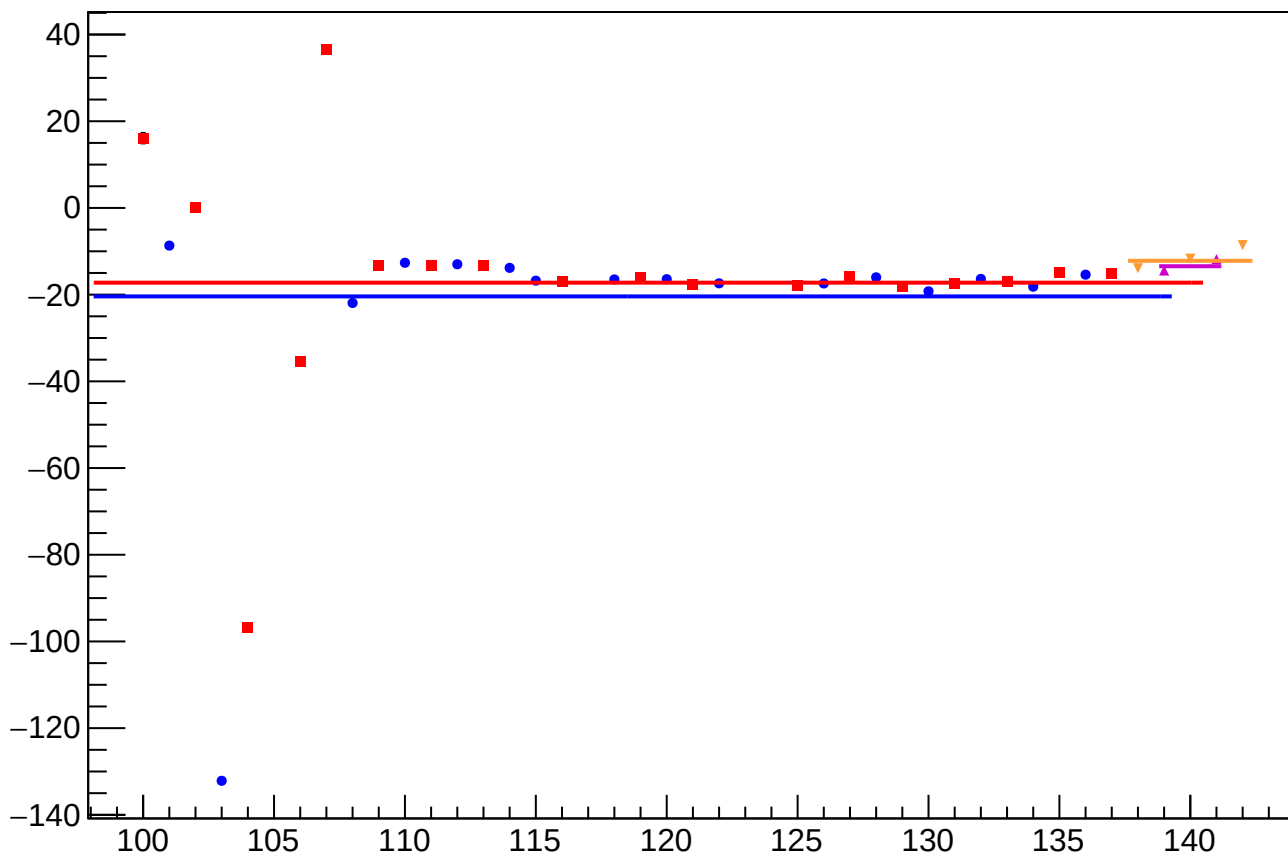
Right: 42.345 $\pm$ 0.487 χ^2 /NDF: 503.5/33

In: 38.160 $\pm$ 0.618 χ^2 /NDF: 457.8/17

Out: 38.568 $\pm$ 0.591 χ^2 /NDF: 359.8/20

All: 38.373 $\pm$ 0.427 χ^2 /NDF: 817.8/38

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.405 ± 0.042 χ^2/NDF : 245611.9/15

Left Out: -12.192 ± 0.048 χ^2/NDF : 1554.2/2

Right Out: -17.236 ± 0.044 χ^2/NDF : 204657.3/17

Left In: -13.444 ± 0.049 χ^2/NDF : 669.6/1

Left: -12.800 ± 0.034 χ^2/NDF : 2558.8/4

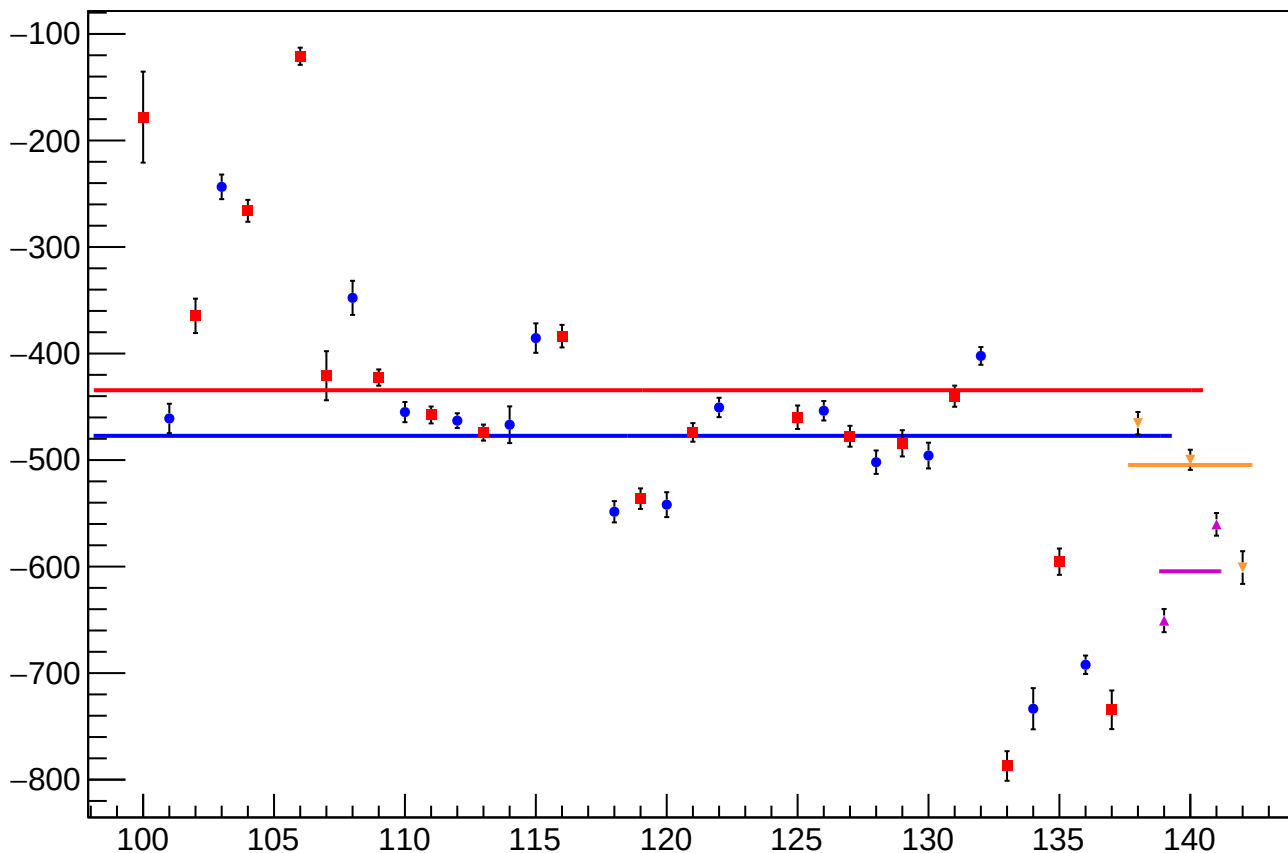
Right: -18.901 ± 0.030 χ^2/NDF : 452982.8/33

In: -17.469 ± 0.032 χ^2/NDF : 257920.5/17

Out: -14.910 ± 0.032 χ^2/NDF : 212246.5/20

All: -16.209 ± 0.023 χ^2/NDF : 473339.7/38

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -477.255+/-2.633 χ^2/NDF : 1510.8/15

Left Out: -504.621+/-6.393 χ^2/NDF : 53.5/2

Right Out: -434.437+/-2.464 χ^2/NDF : 3161.9/17

Left In: -604.428+/-7.616 χ^2/NDF : 35.2/1

Left: -545.876+/-4.896 χ^2/NDF : 189.5/4

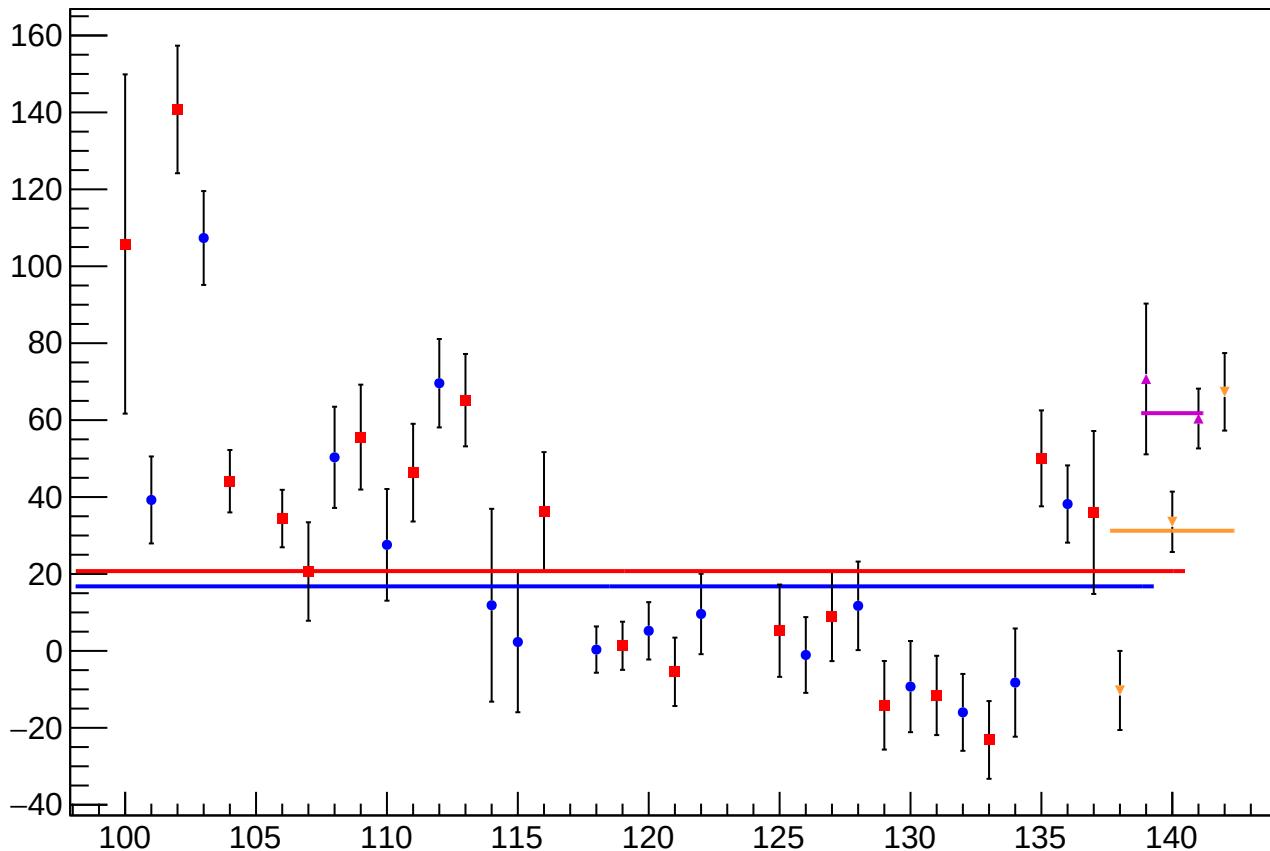
Right: -454.426+/-1.799 χ^2/NDF : 4813.7/33

In: -490.834+/-2.489 χ^2/NDF : 1795.1/17

Out: -443.515+/-2.299 χ^2/NDF : 3320.4/20

All: -465.304+/-1.689 χ^2/NDF : 5310.5/38

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.780 $\pm$ 2.654 χ^2 /NDF: 125.0/15

Left Out: 31.241 $\pm$ 5.305 χ^2 /NDF: 29.2/2

Right Out: 20.749 $\pm$ 2.548 χ^2 /NDF: 157.9/17

Left In: 61.811 $\pm$ 7.225 χ^2 /NDF: 0.2/1

Left: 41.950 $\pm$ 4.276 χ^2 /NDF: 41.1/4

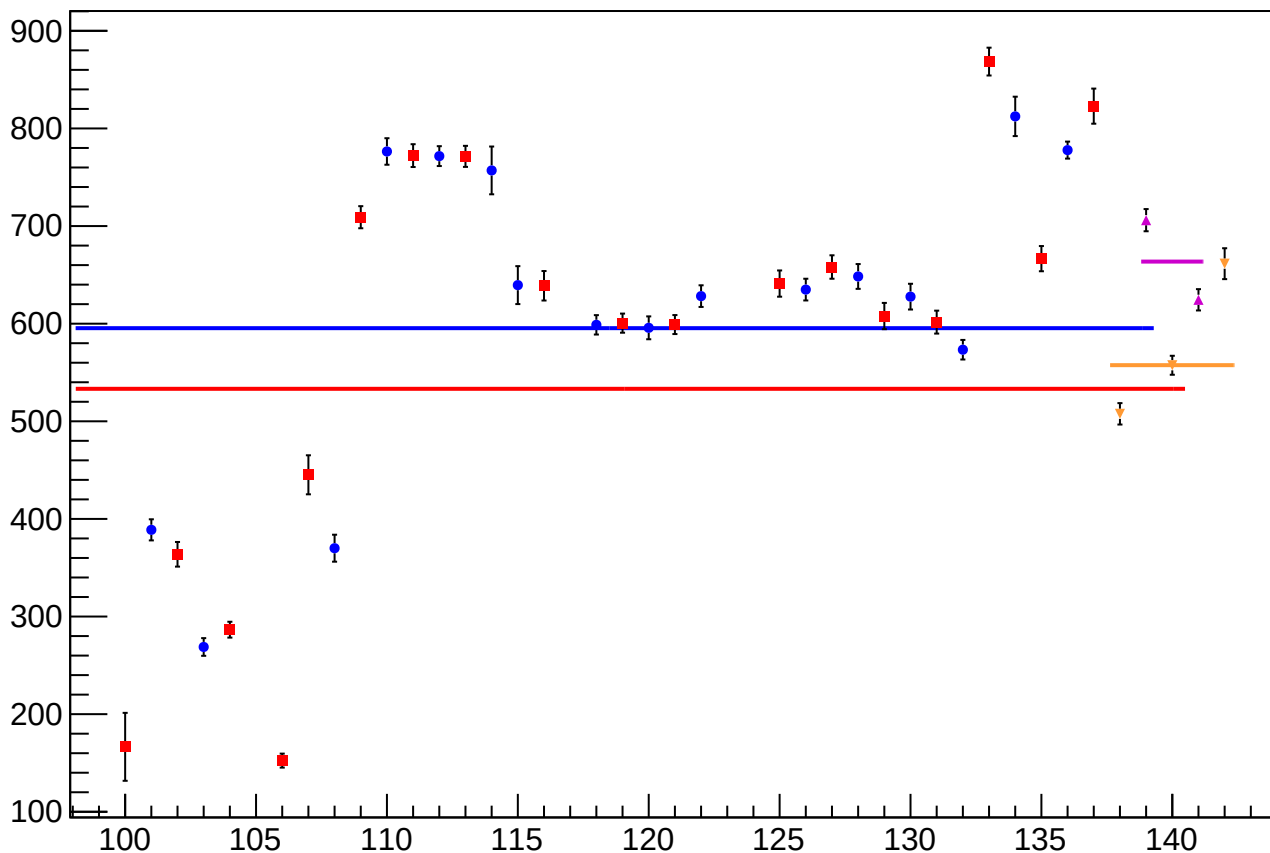
Right: 18.845 $\pm$ 1.838 χ^2 /NDF: 284.1/33

In: 22.135 $\pm$ 2.492 χ^2 /NDF: 159.4/17

Out: 22.716 $\pm$ 2.297 χ^2 /NDF: 190.4/20

All: 22.449 $\pm$ 1.689 χ^2 /NDF: 349.8/38

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 595.406+/-2.930 χ^2/NDF : 3059.7/15

Left Out: 557.511+/-6.611 χ^2/NDF : 63.8/2

Right Out: 533.283+/-2.746 χ^2/NDF : 6502.9/17

Left In: 663.610+/-7.874 χ^2/NDF : 26.8/1

Left: 601.382+/-5.063 χ^2/NDF : 197.1/4

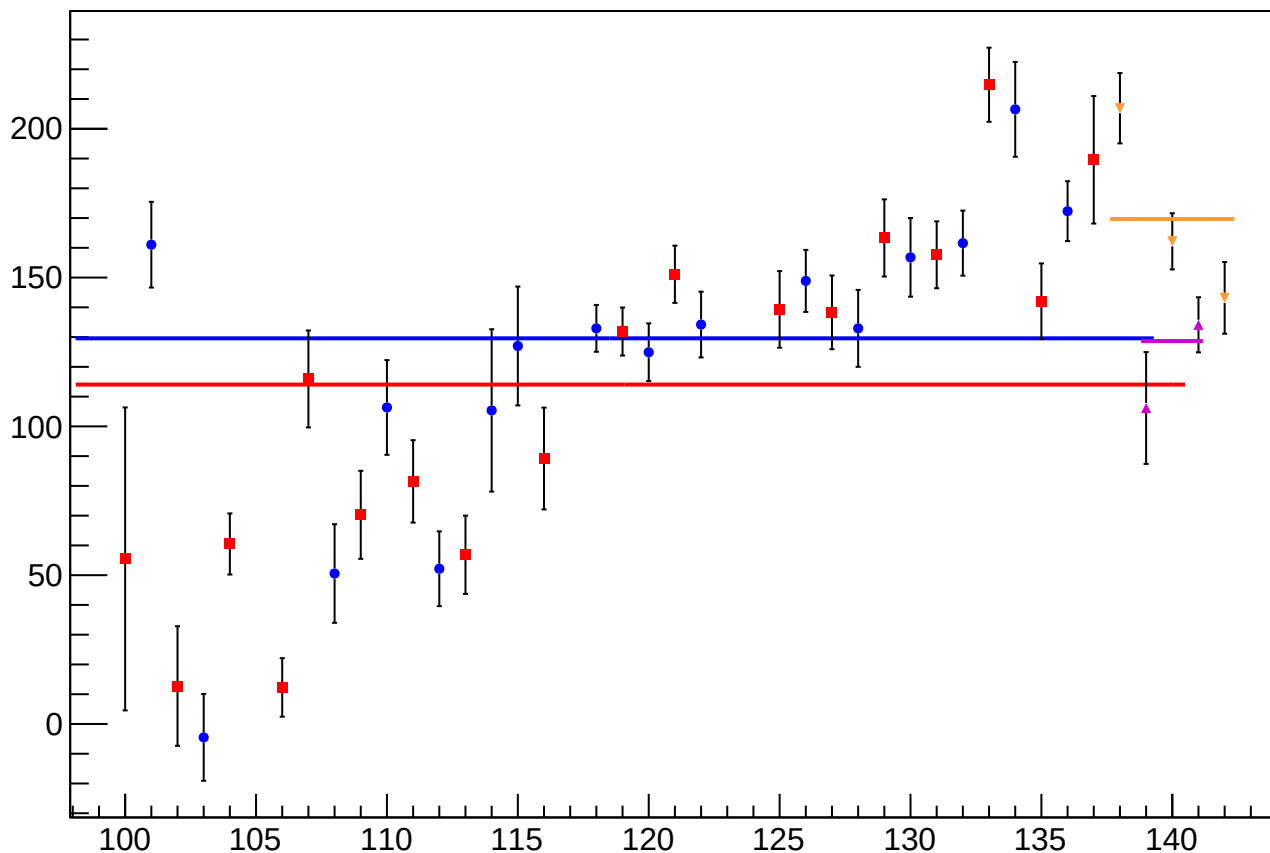
Right: 562.337+/-2.003 χ^2/NDF : 9802.0/33

In: 603.700+/-2.746 χ^2/NDF : 3152.4/17

Out: 536.848+/-2.536 χ^2/NDF : 6578.1/20

All: 567.623+/-1.863 χ^2/NDF : 10050.5/38

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 129.586 $\pm$ 3.081 χ^2 /NDF: 211.2/15

Left Out: 169.682 $\pm$ 6.290 χ^2 /NDF:15.4/2

Right Out: 114.048 $\pm$ 2.976 χ^2 /NDF: 335.9/17

Left In: 128.671 $\pm$ 8.303 χ^2 /NDF:1.8/1

Left: 154.726 $\pm$ 5.014 χ^2 /NDF: 32.7/4

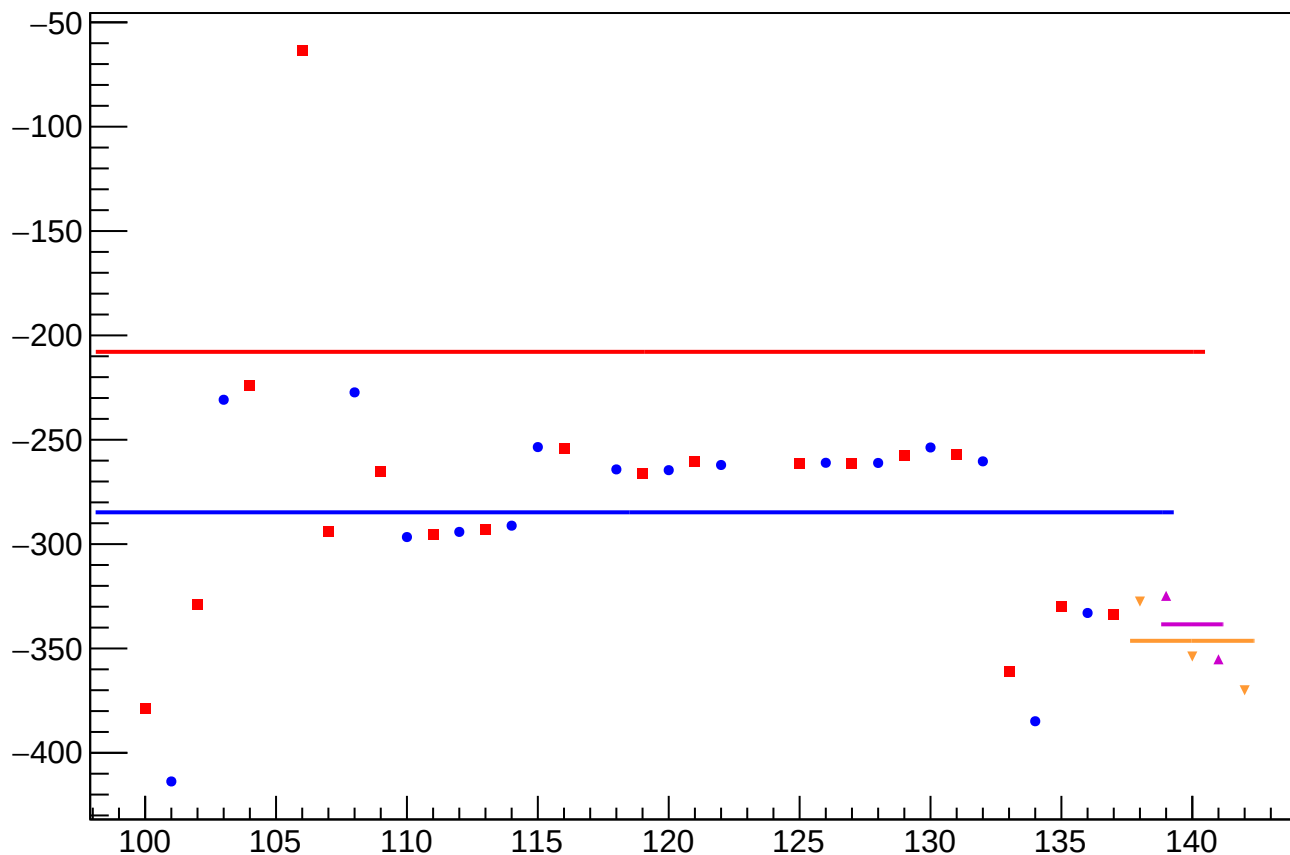
Right: 121.549 $\pm$ 2.140 χ^2 /NDF: 560.3/33

In: 129.475 $\pm$ 2.888 χ^2 /NDF:213.0/17

Out: 124.223 $\pm$ 2.690 χ^2 /NDF:415.2/20

All: 126.663 $\pm$ 1.969 χ^2 /NDF: 630.0/38

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -284.765+/-0.178 χ^2/NDF : 104370.4/15

Left Out: -346.328+/-0.280 χ^2/NDF :3440.2/2

Right Out: -207.875+/-0.149 χ^2/NDF : 536707.7/17

Left In: -338.437+/-0.301 χ^2/NDF :2531.5/1

Left: -342.666+/-0.205 χ^2/NDF : 6341.3/4

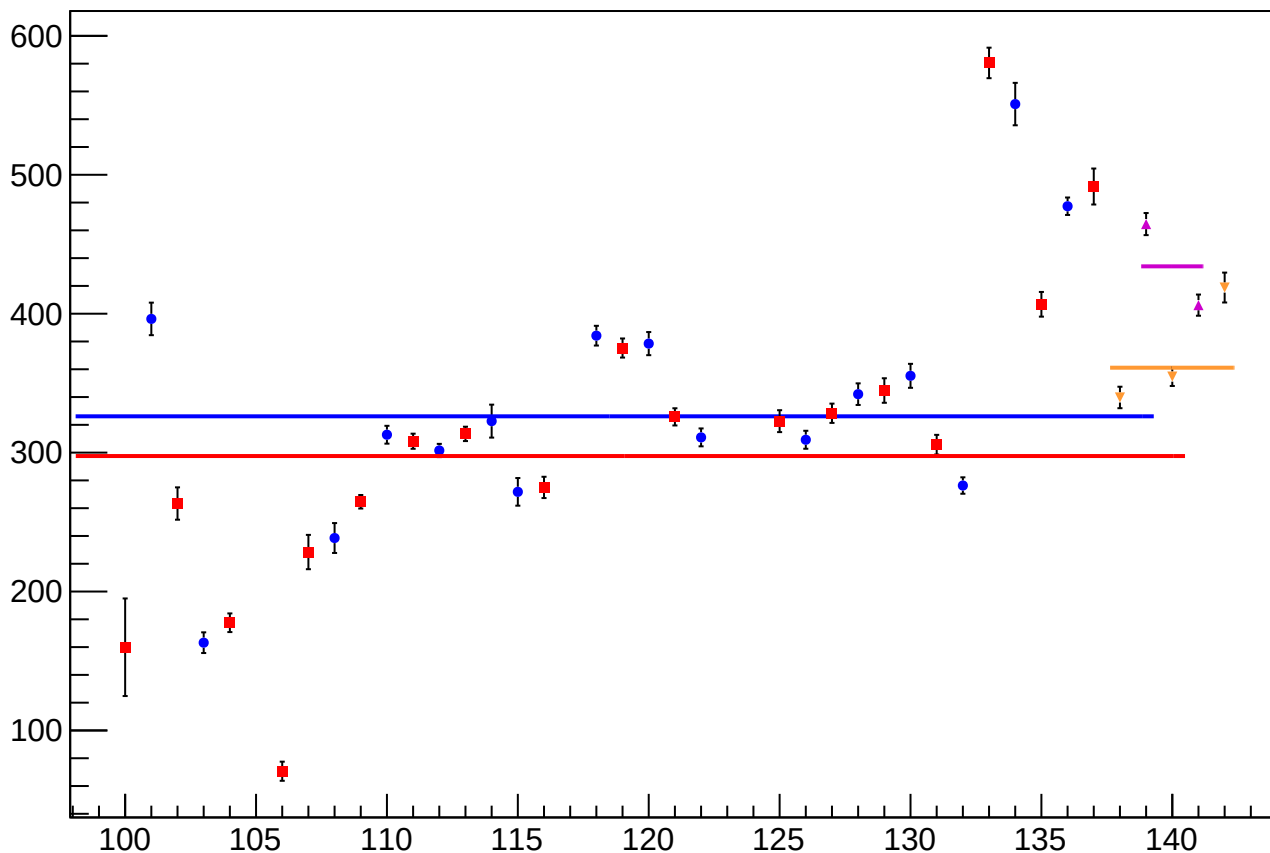
Right: -239.608+/-0.114 χ^2/NDF : 751214.9/33

In: -298.653+/-0.153 χ^2/NDF :130547.0/17

Out: -238.448+/-0.131 χ^2/NDF :731217.3/20

All: -264.027+/-0.100 χ^2/NDF : 950977.9/38

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 326.133+/-1.857 χ^2/NDF : 1642.9/15

Left Out: 361.133+/-4.602 χ^2/NDF :37.3/2

Right Out: 297.538+/-1.735 χ^2/NDF : 2775.4/17

Left In: 434.089+/-5.504 χ^2/NDF :28.1/1

Left: 391.151+/-3.530 χ^2/NDF : 168.8/4

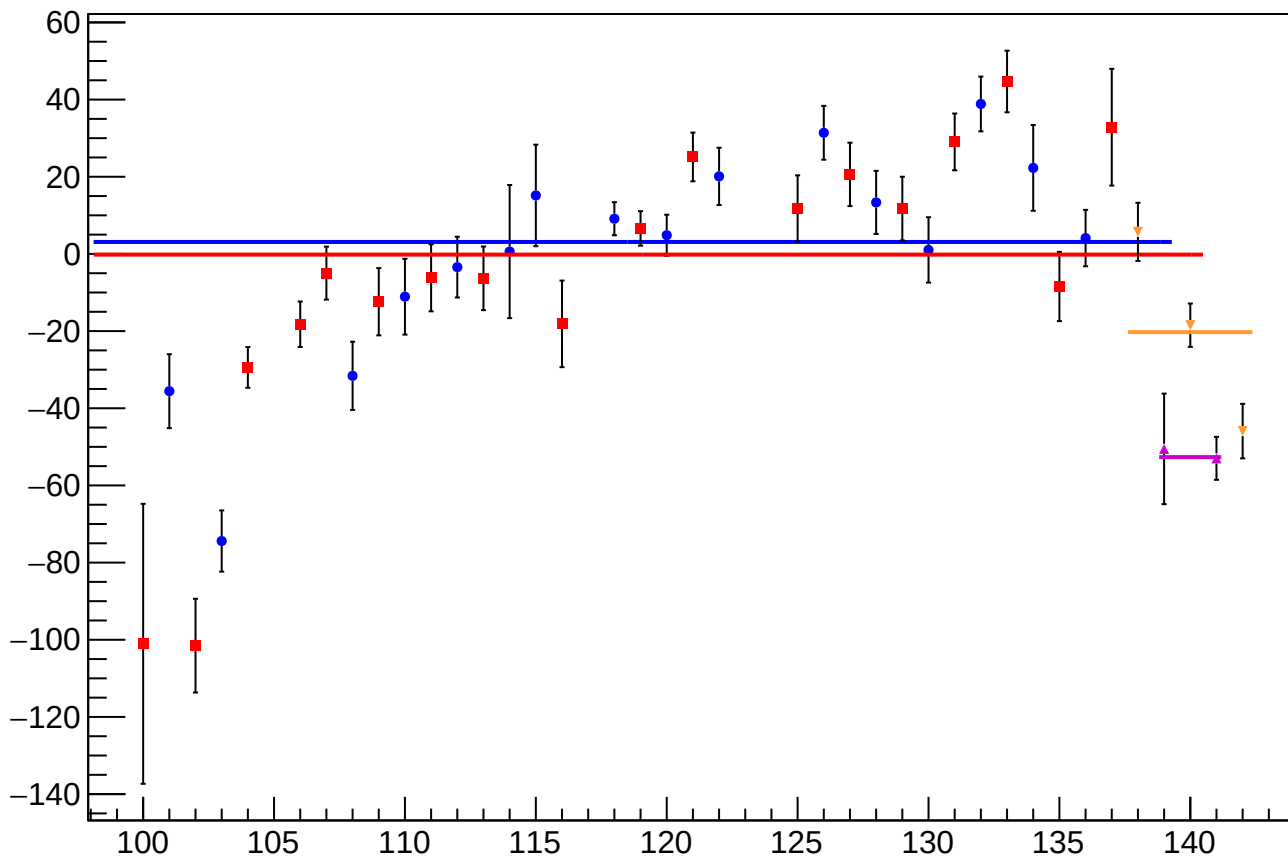
Right: 310.864+/-1.268 χ^2/NDF : 4545.0/33

In: 337.165+/-1.759 χ^2/NDF :2016.4/17

Out: 305.450+/-1.623 χ^2/NDF :2980.0/20

All: 320.033+/-1.193 χ^2/NDF : 5172.0/38

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.101 ± 1.892 $\chi^2/\text{NDF}: 184.5/15$

Left Out: -20.266 ± 3.799 $\chi^2/\text{NDF}: 25.2/2$

Right Out: -0.180 ± 1.791 $\chi^2/\text{NDF}: 205.2/17$

Left In: -52.661 ± 5.188 $\chi^2/\text{NDF}: 0.0/1$

Left: -31.571 ± 3.065 $\chi^2/\text{NDF}: 50.6/4$

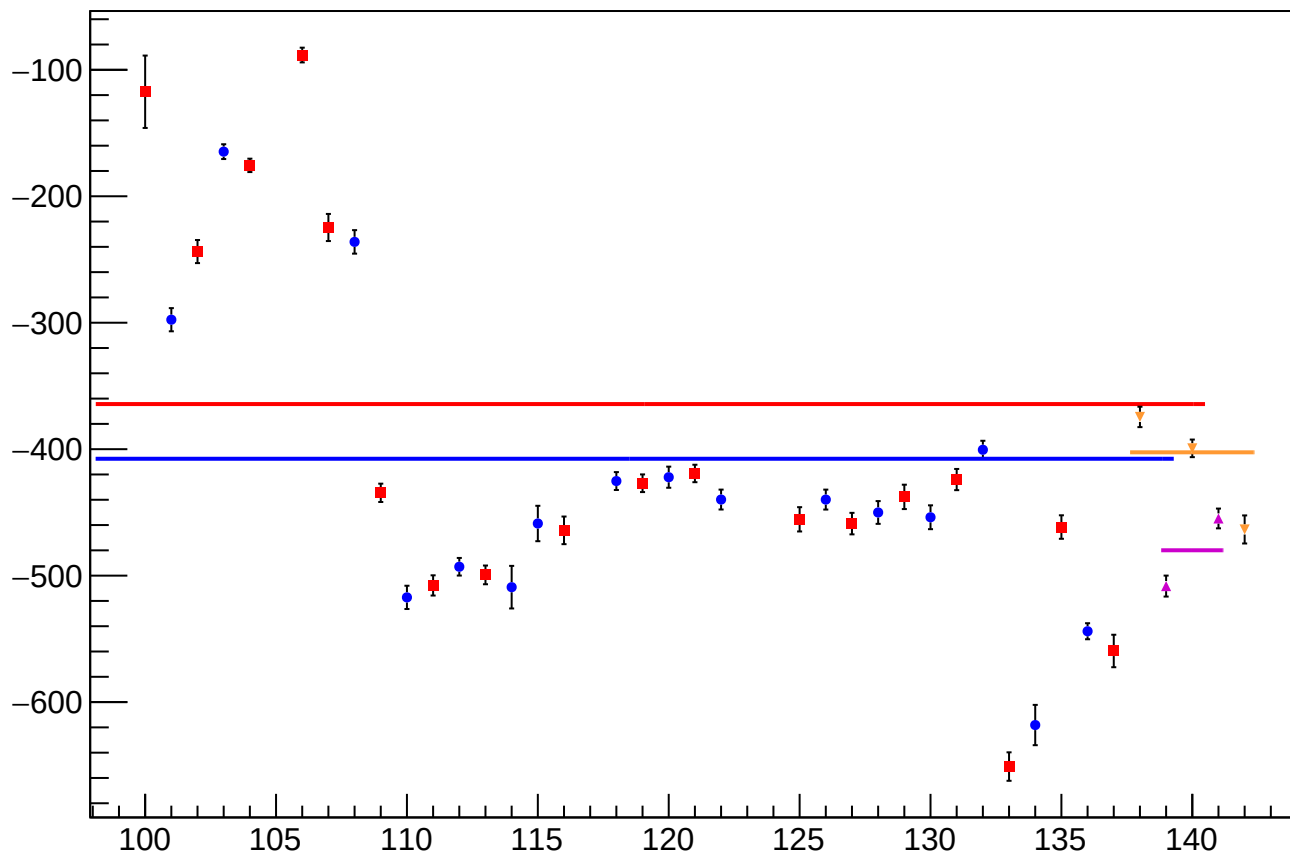
Right: 1.370 ± 1.301 $\chi^2/\text{NDF}: 391.3/33$

In: -3.445 ± 1.778 $\chi^2/\text{NDF}: 286.5/17$

Out: -3.833 ± 1.620 $\chi^2/\text{NDF}: 253.2/20$

All: -3.657 ± 1.197 $\chi^2/\text{NDF}: 539.8/38$

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -407.575+/-2.074 χ^2/NDF : 3280.5/15

Left Out: -402.481+/-4.758 χ^2/NDF : 42.5/2

Right Out: -364.323+/-1.942 χ^2/NDF : 6220.4/17

Left In: -479.945+/-5.688 χ^2/NDF : 22.0/1

Left: -434.368+/-3.650 χ^2/NDF : 173.6/4

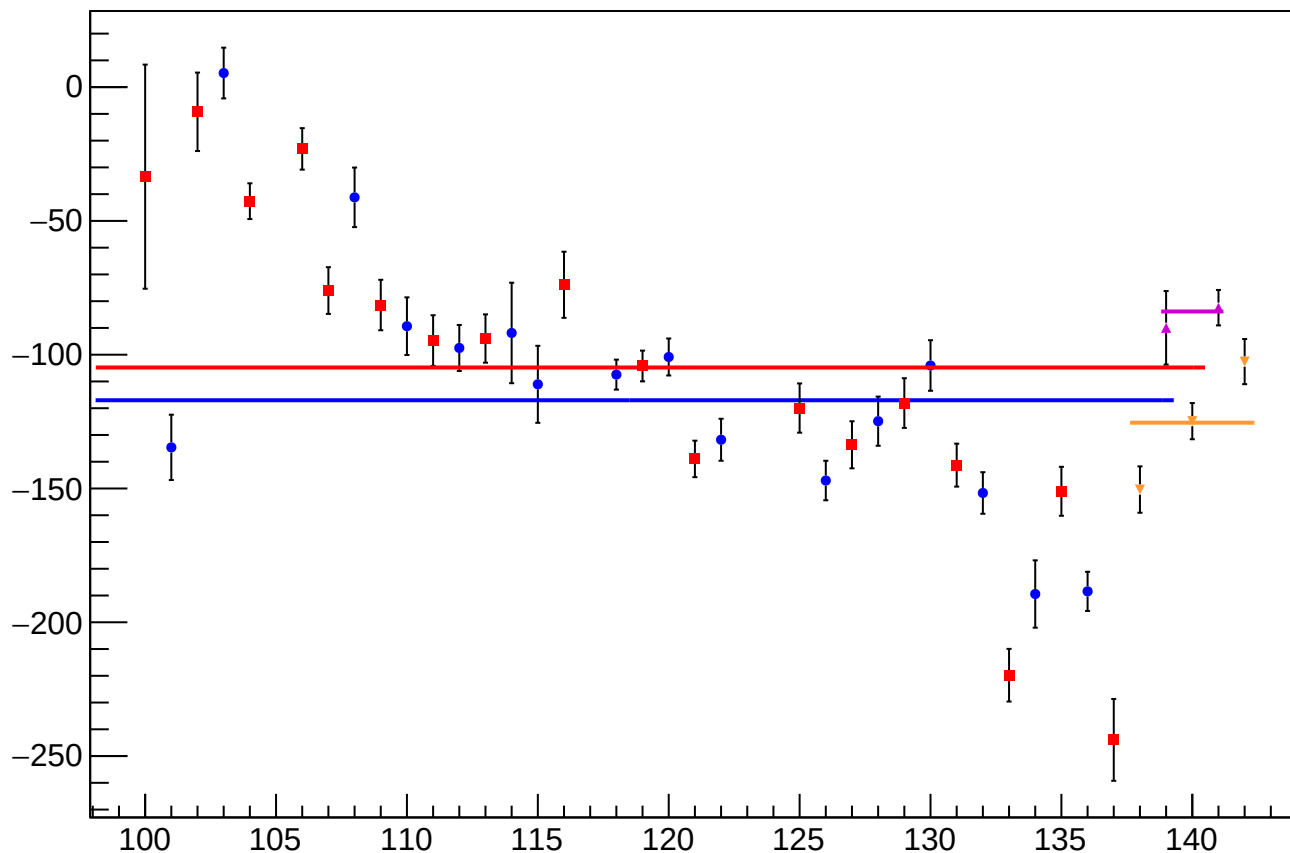
Right: -384.535+/-1.418 χ^2/NDF : 9732.7/33

In: -416.065+/-1.948 χ^2/NDF : 3445.4/17

Out: -369.773+/-1.798 χ^2/NDF : 6318.0/20

All: -391.068+/-1.321 χ^2/NDF : 10068.3/38

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -117.021 ± 2.194 $\chi^2/\text{NDF}: 407.8/15$

Left Out: -125.405 ± 4.507 $\chi^2/\text{NDF}: 15.6/2$

Right Out: -104.780 ± 2.091 $\chi^2/\text{NDF}: 575.1/17$

Left In: -83.846 ± 5.969 $\chi^2/\text{NDF}: 0.2/1$

Left: -110.315 ± 3.597 $\chi^2/\text{NDF}: 46.8/4$

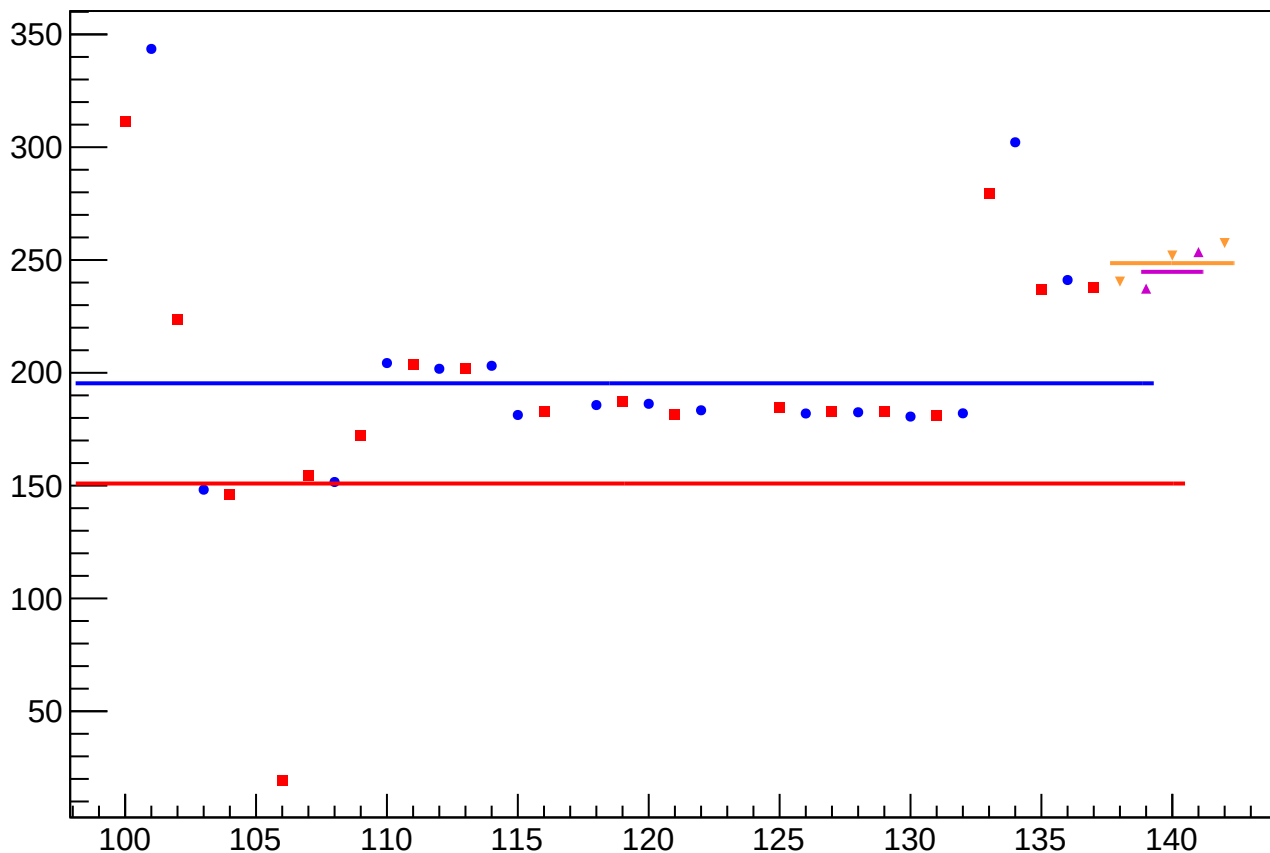
Right: -110.605 ± 1.514 $\chi^2/\text{NDF}: 999.2/33$

In: -113.071 ± 2.060 $\chi^2/\text{NDF}: 435.3/17$

Out: -108.432 ± 1.897 $\chi^2/\text{NDF}: 608.0/20$

All: -110.561 ± 1.395 $\chi^2/\text{NDF}: 1046.0/38$

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 195.351+/-0.125 χ^2/NDF : 176975.5/15

Left Out: 248.613+/-0.201 χ^2/NDF :1134.9/2

Right Out: 150.932+/-0.110 χ^2/NDF : 499233.7/17

Left In: 244.756+/-0.218 χ^2/NDF :1376.1/1

Left: 246.833+/-0.148 χ^2/NDF : 2680.3/4

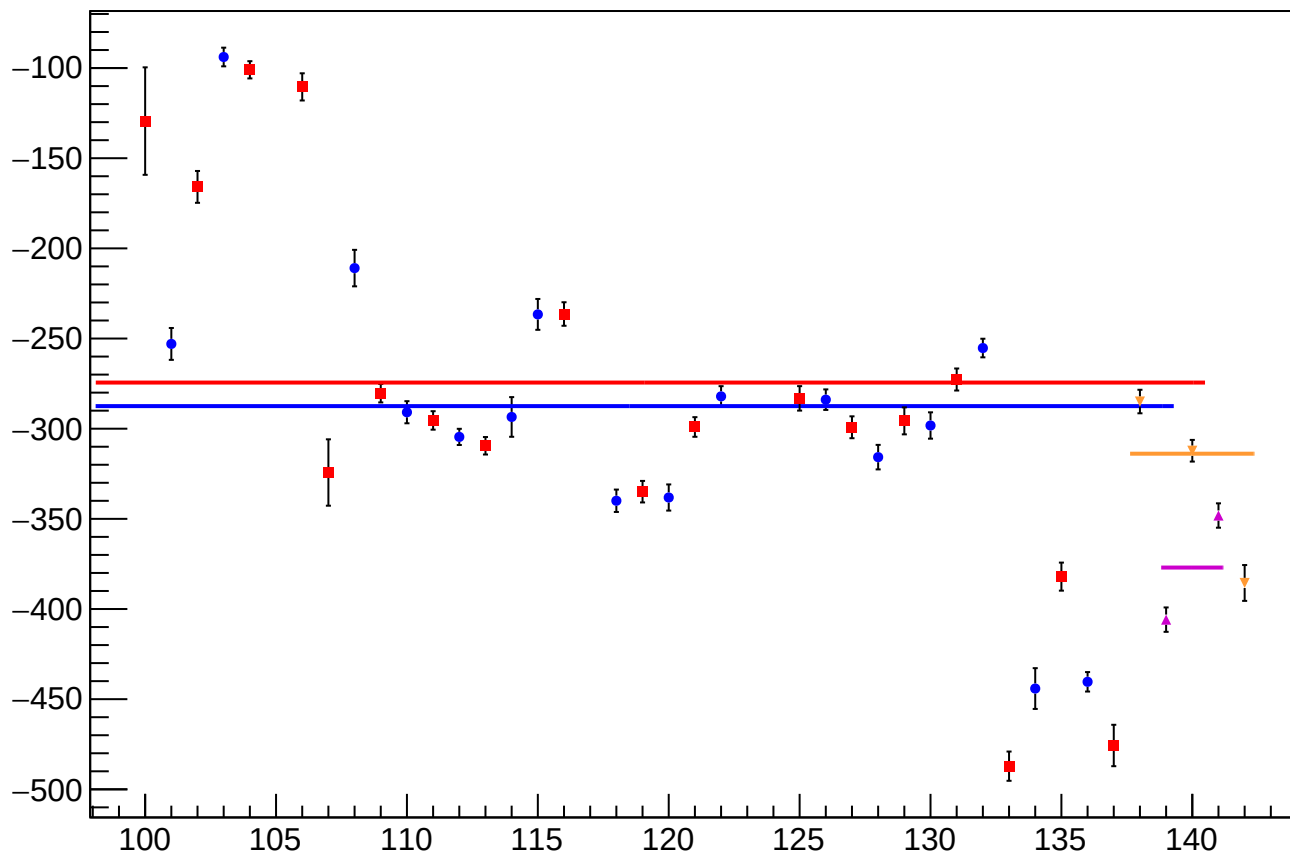
Right: 170.416+/-0.083 χ^2/NDF : 747517.5/33

In: 207.555+/-0.108 χ^2/NDF :217168.8/17

Out: 173.432+/-0.097 χ^2/NDF :681444.7/20

All: 188.584+/-0.072 χ^2/NDF : 953963.7/38

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -287.476+/-1.611 χ^2/NDF : 2696.5/15

Left Out: -313.869+/-4.038 χ^2/NDF : 71.8/2

Right Out: -274.417+/-1.551 χ^2/NDF : 3413.4/17

Left In: -377.009+/-4.781 χ^2/NDF : 36.5/1

Left: -340.156+/-3.085 χ^2/NDF : 210.0/4

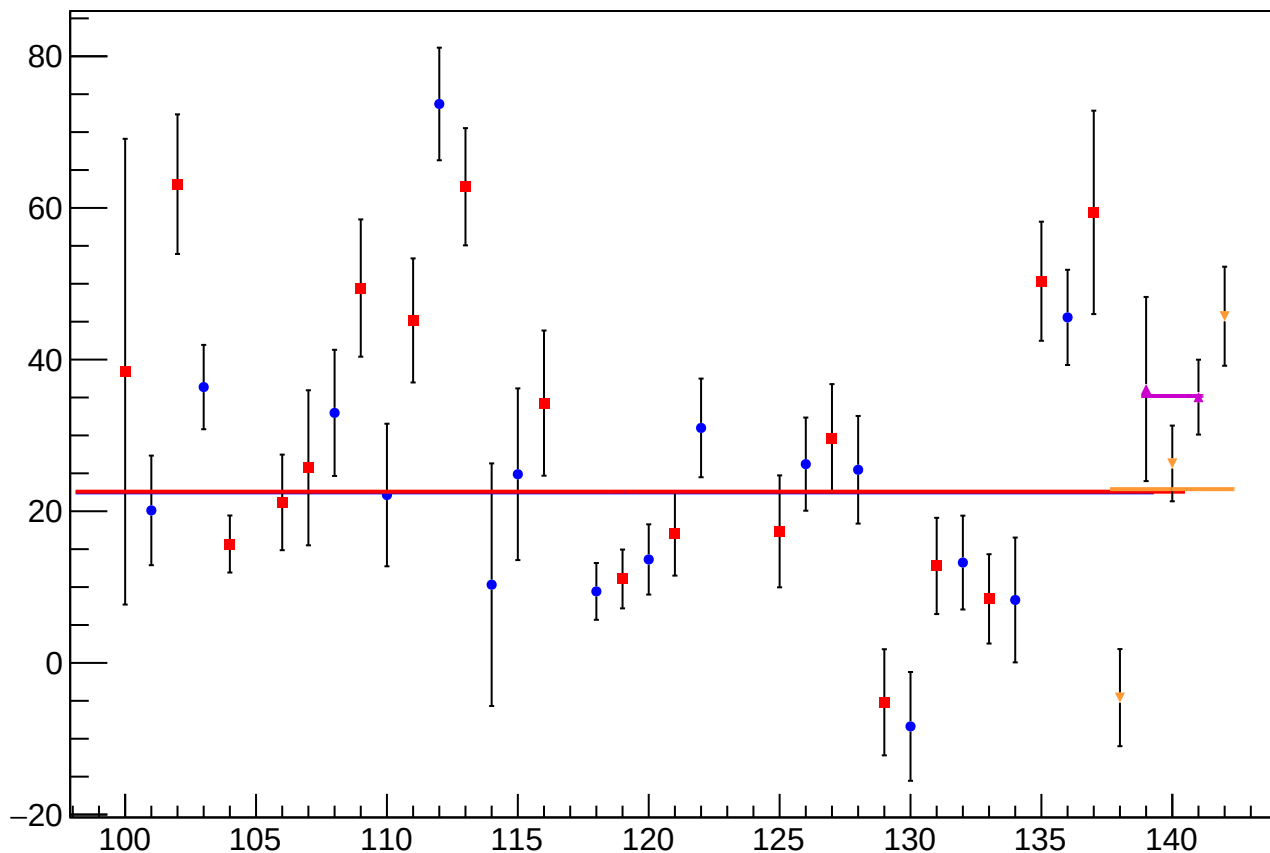
Right: -280.699+/-1.118 χ^2/NDF : 6144.0/33

In: -296.607+/-1.527 χ^2/NDF : 3047.9/17

Out: -279.491+/-1.448 χ^2/NDF : 3568.4/20

All: -287.597+/-1.051 χ^2/NDF : 6682.4/38

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 22.492 $\pm$ 1.621 χ^2 /NDF: 111.4/15

Left Out: 22.915 $\pm$ 3.372 χ^2 /NDF:31.1/2

Right Out: 22.580 $\pm$ 1.570 χ^2 /NDF: 123.3/17

Left In: 35.200 $\pm$ 4.574 χ^2 /NDF:0.0/1

Left: 27.240 $\pm$ 2.714 χ^2 /NDF: 35.8/4

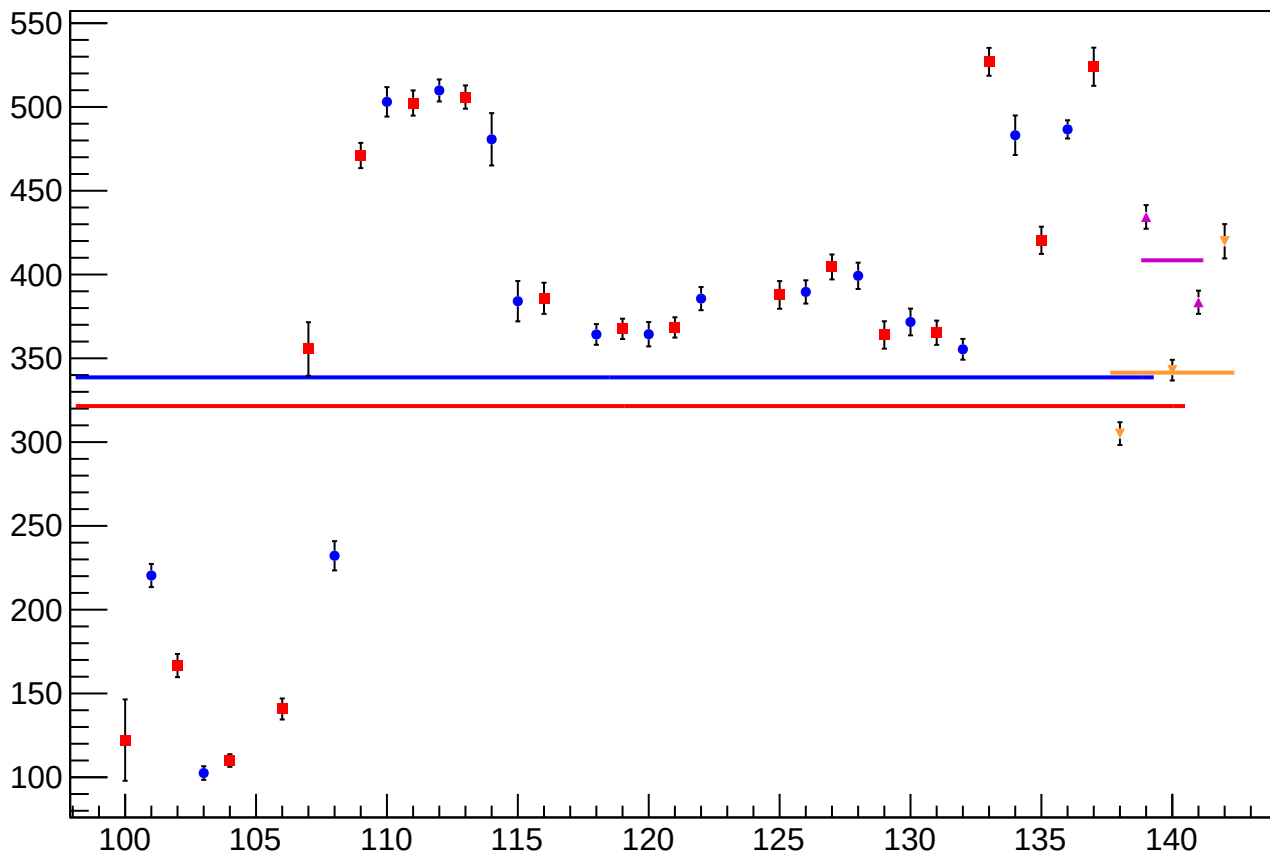
Right: 22.537 $\pm$ 1.128 χ^2 /NDF: 234.8/33

In: 23.910 $\pm$ 1.528 χ^2 /NDF:118.3/17

Out: 22.639 $\pm$ 1.423 χ^2 /NDF:154.4/20

All: 23.230 $\pm$ 1.041 χ^2 /NDF: 273.1/38

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 338.633 $\pm$ 1.748 χ^2 /NDF: 6042.6/15

Left Out: 341.439 $\pm$ 4.177 χ^2 /NDF:87.2/2

Right Out: 321.500 $\pm$ 1.694 χ^2 /NDF: 7720.8/17

Left In: 408.485 $\pm$ 4.944 χ^2 /NDF:26.5/1

Left: 369.359 $\pm$ 3.191 χ^2 /NDF: 221.0/4

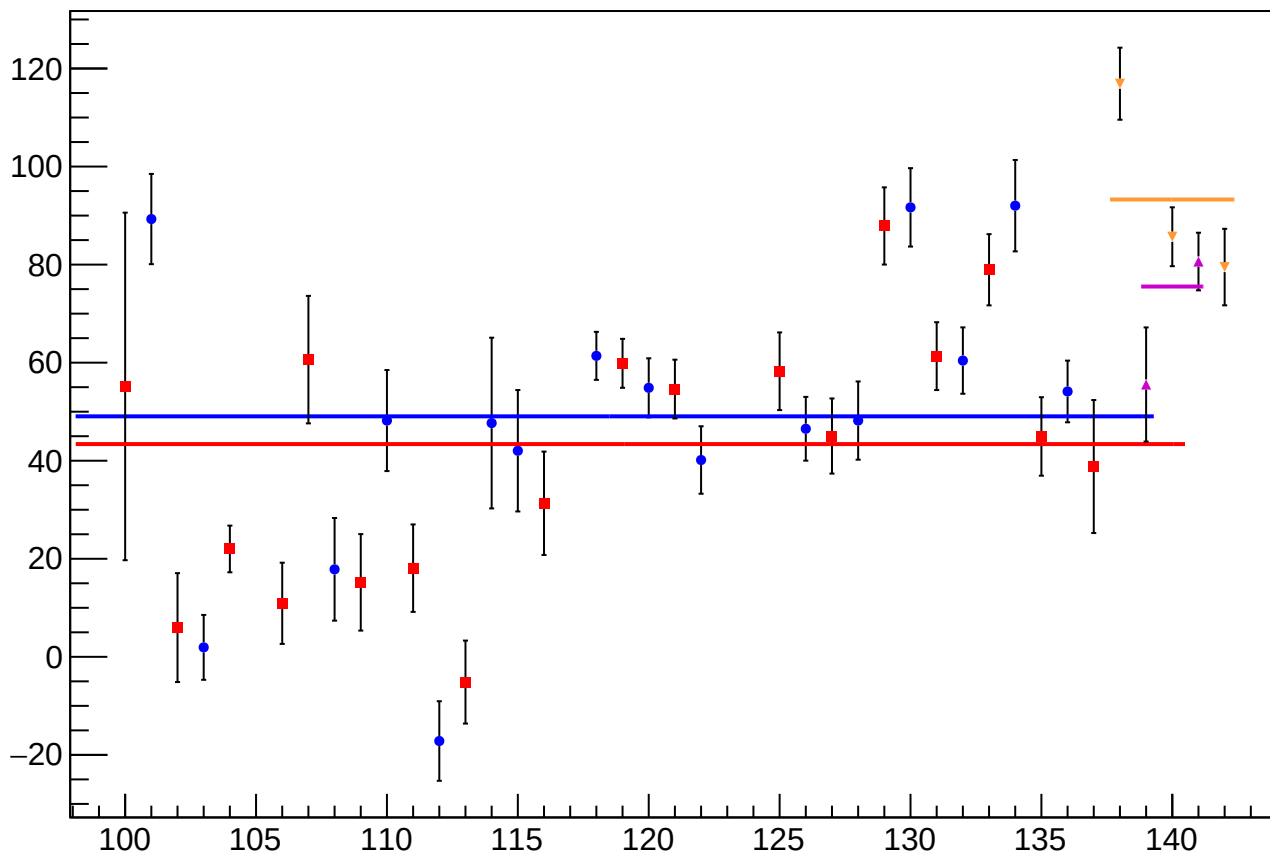
Right: 329.797 $\pm$ 1.217 χ^2 /NDF: 13813.0/33

In: 346.395 $\pm$ 1.648 χ^2 /NDF:6246.5/17

Out: 324.317 $\pm$ 1.570 χ^2 /NDF:7827.6/20

All: 334.819 $\pm$ 1.137 χ^2 /NDF: 14168.2/38

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 49.053 $\pm$ 1.882 χ^2 /NDF: 207.9/15

Left Out: 93.280 $\pm$ 3.994 χ^2 /NDF:15.0/2

Right Out: 43.392 $\pm$ 1.834 χ^2 /NDF: 180.0/17

Left In: 75.530 $\pm$ 5.247 χ^2 /NDF:3.7/1

Left: 86.769 $\pm$ 3.178 χ^2 /NDF: 26.0/4

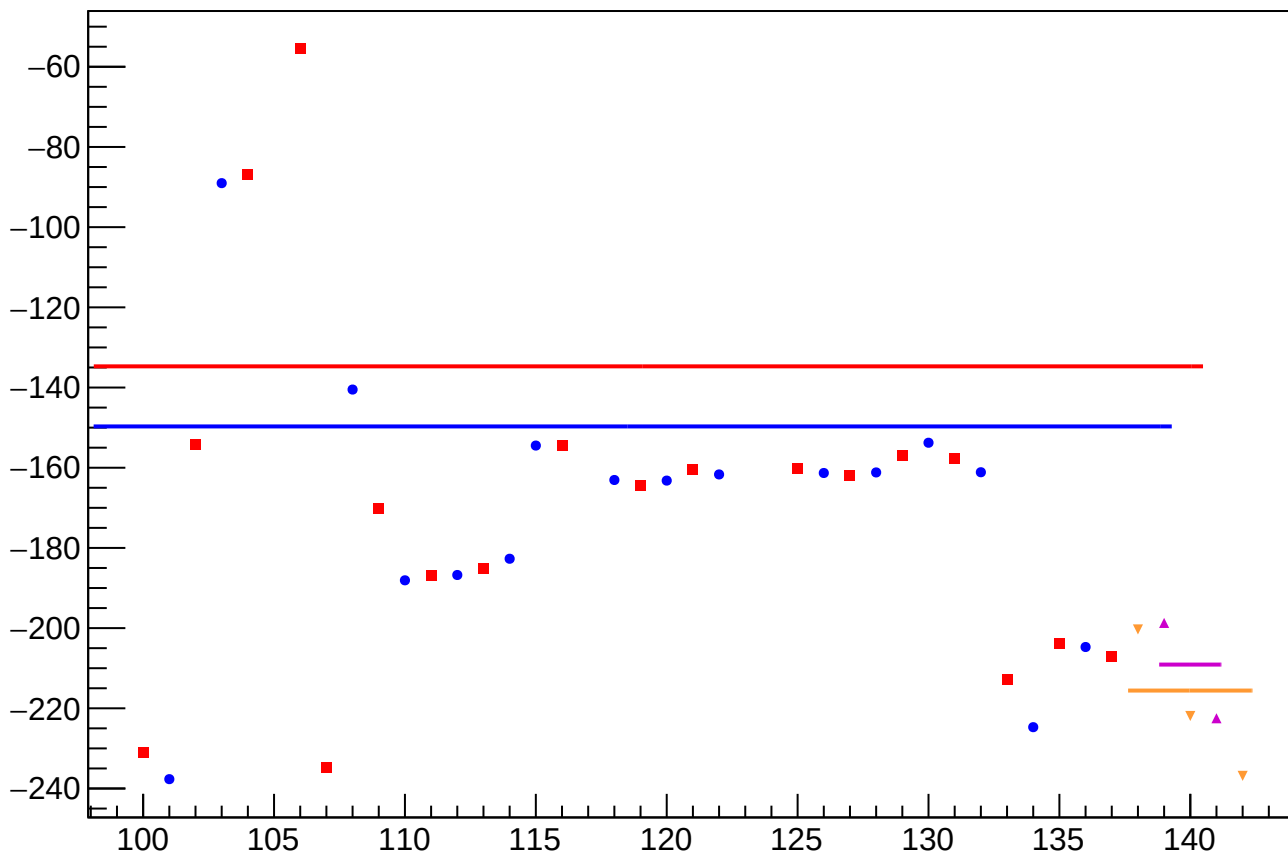
Right: 46.149 $\pm$ 1.314 χ^2 /NDF: 392.6/33

In: 52.072 $\pm$ 1.772 χ^2 /NDF:234.2/17

Out: 52.078 $\pm$ 1.667 χ^2 /NDF:323.9/20

All: 52.076 $\pm$ 1.214 χ^2 /NDF: 558.1/38

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -149.698+/-0.101 χ^2/NDF : 256472.2/15

Left Out: -215.571+/-0.176 χ^2/NDF : 6190.0/2

Right Out: -134.715+/-0.097 χ^2/NDF : 312639.8/17

Left In: -209.093+/-0.188 χ^2/NDF : 3925.7/1

Left: -212.542+/-0.129 χ^2/NDF : 10746.4/4

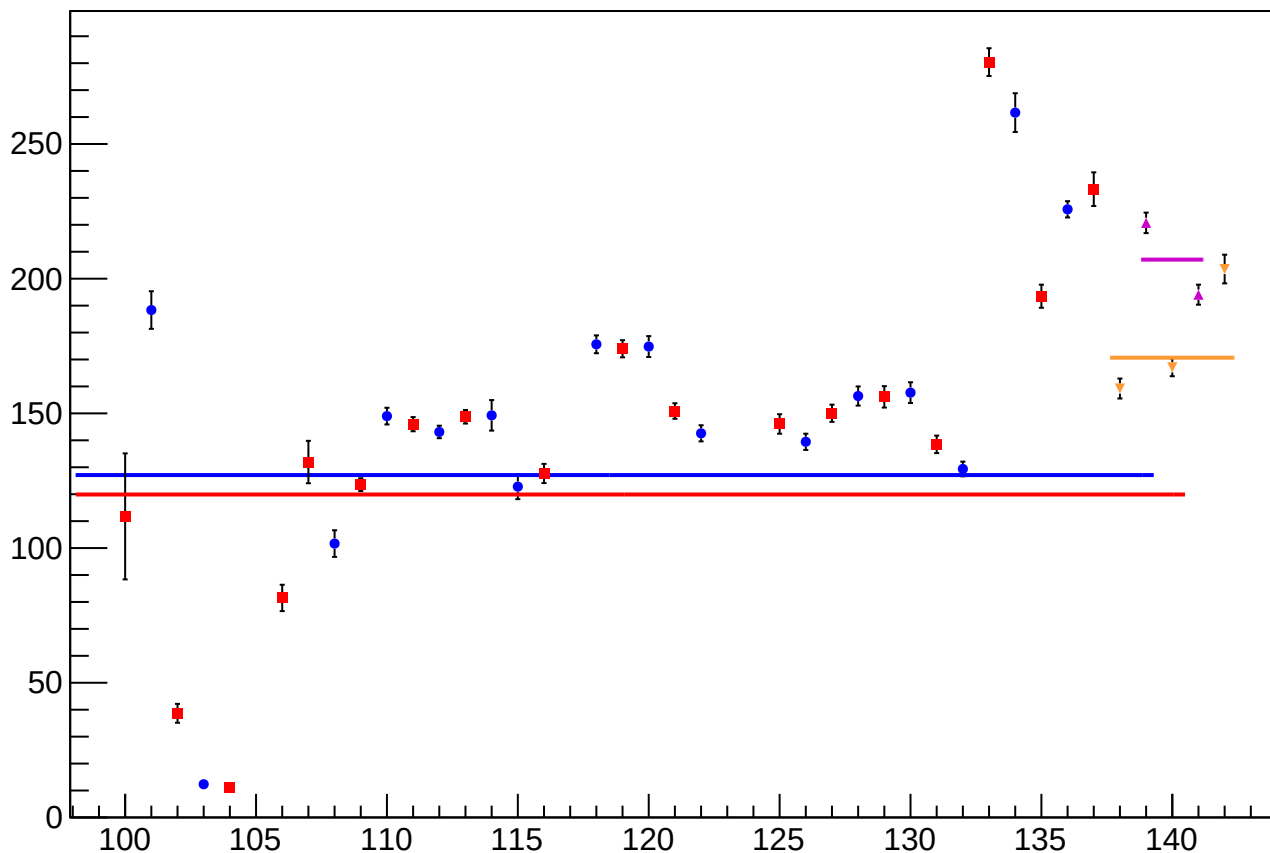
Right: -141.917+/-0.070 χ^2/NDF : 580582.0/33

In: -162.939+/-0.089 χ^2/NDF : 337765.2/17

Out: -153.488+/-0.085 χ^2/NDF : 480170.0/20

All: -158.002+/-0.061 χ^2/NDF : 823841.5/38

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 127.100 $\pm$ 0.811 χ^2 /NDF: 6163.2/15

Left Out: 170.669 $\pm$ 2.238 χ^2 /NDF:48.9/2

Right Out: 119.886 $\pm$ 0.774 χ^2 /NDF: 6649.6/17

Left In: 207.081 $\pm$ 2.658 χ^2 /NDF:25.1/1

Left: 185.773 $\pm$ 1.712 χ^2 /NDF: 183.8/4

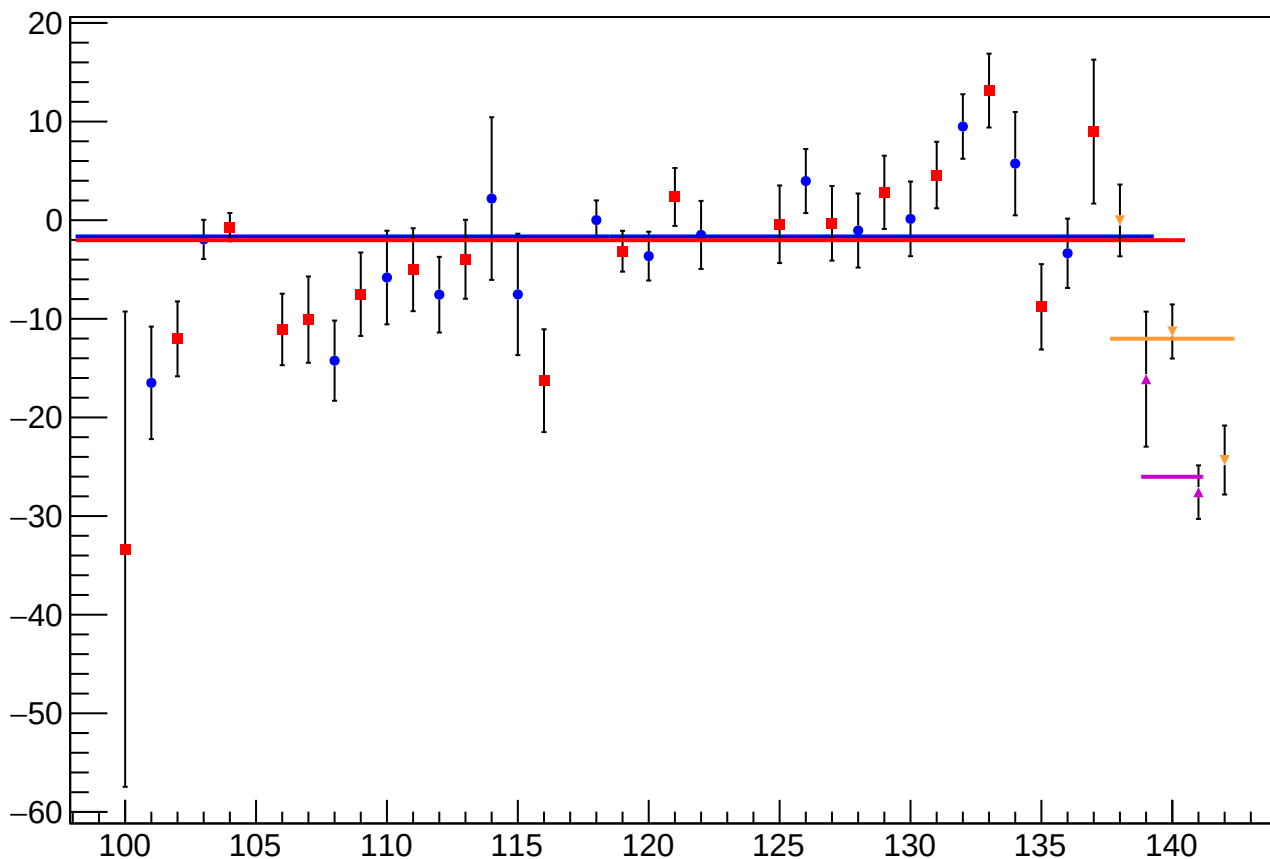
Right: 123.326 $\pm$ 0.560 χ^2 /NDF: 12854.2/33

In: 133.908 $\pm$ 0.776 χ^2 /NDF:7016.6/17

Out: 125.315 $\pm$ 0.732 χ^2 /NDF:7158.3/20

All: 129.361 $\pm$ 0.532 χ^2 /NDF: 14239.9/38

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.651 ± 0.833 χ^2/NDF : 39.1/15

Left Out: -12.018 ± 1.857 χ^2/NDF : 23.3/2

Right Out: -2.027 ± 0.770 χ^2/NDF : 58.6/17

Left In: -26.018 ± 2.524 χ^2/NDF : 2.4/1

Left: -16.935 ± 1.496 χ^2/NDF : 45.7/4

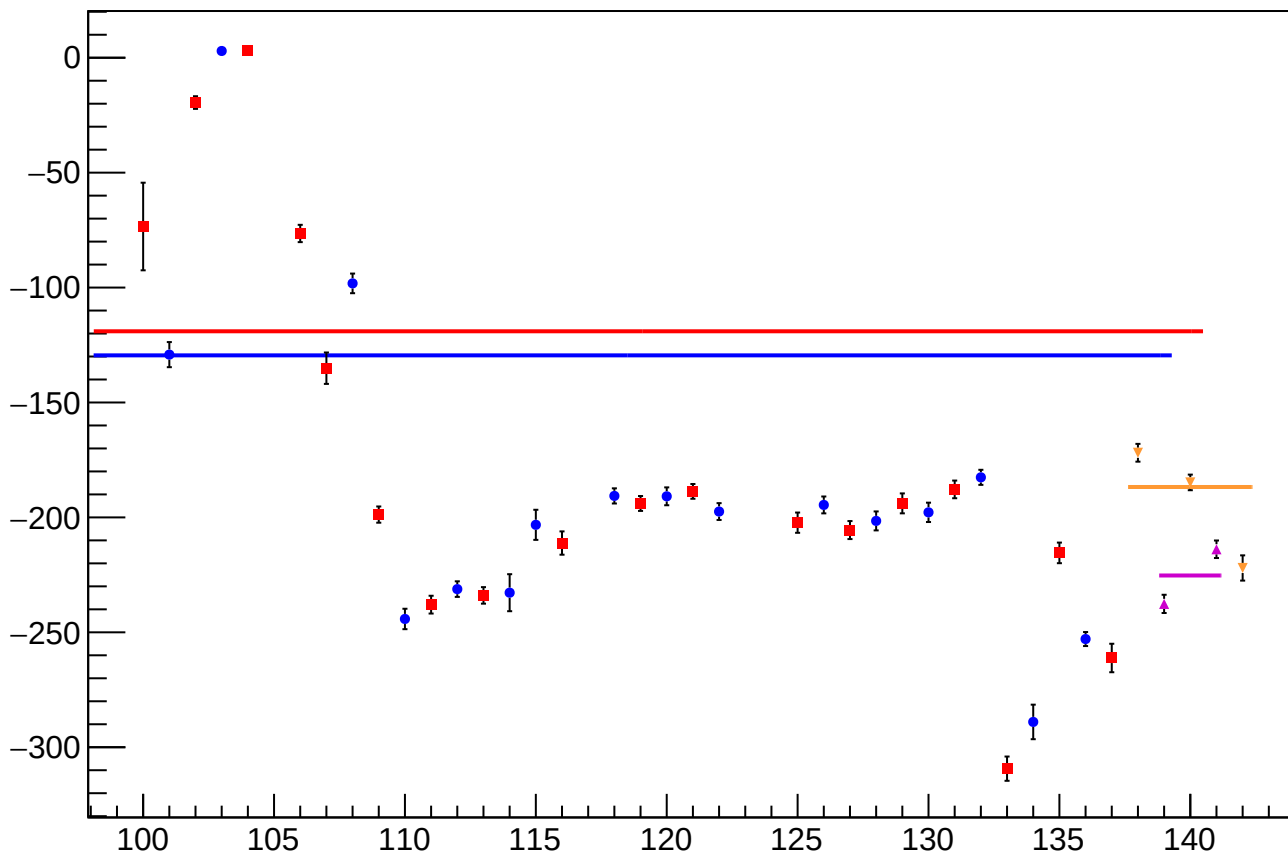
Right: -1.854 ± 0.565 χ^2/NDF : 97.8/33

In: -4.044 ± 0.791 χ^2/NDF : 125.6/17

Out: -3.494 ± 0.711 χ^2/NDF : 106.6/20

All: -3.740 ± 0.529 χ^2/NDF : 232.4/38

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -129.497+/-0.846 χ^2/NDF : 14687.9/15

Left Out: -186.770+/-2.314 χ^2/NDF :56.3/2

Right Out: -119.022+/-0.813 χ^2/NDF : 16177.3/17

Left In: -225.275+/-2.748 χ^2/NDF :18.7/1

Left: -202.748+/-1.770 χ^2/NDF : 189.9/4

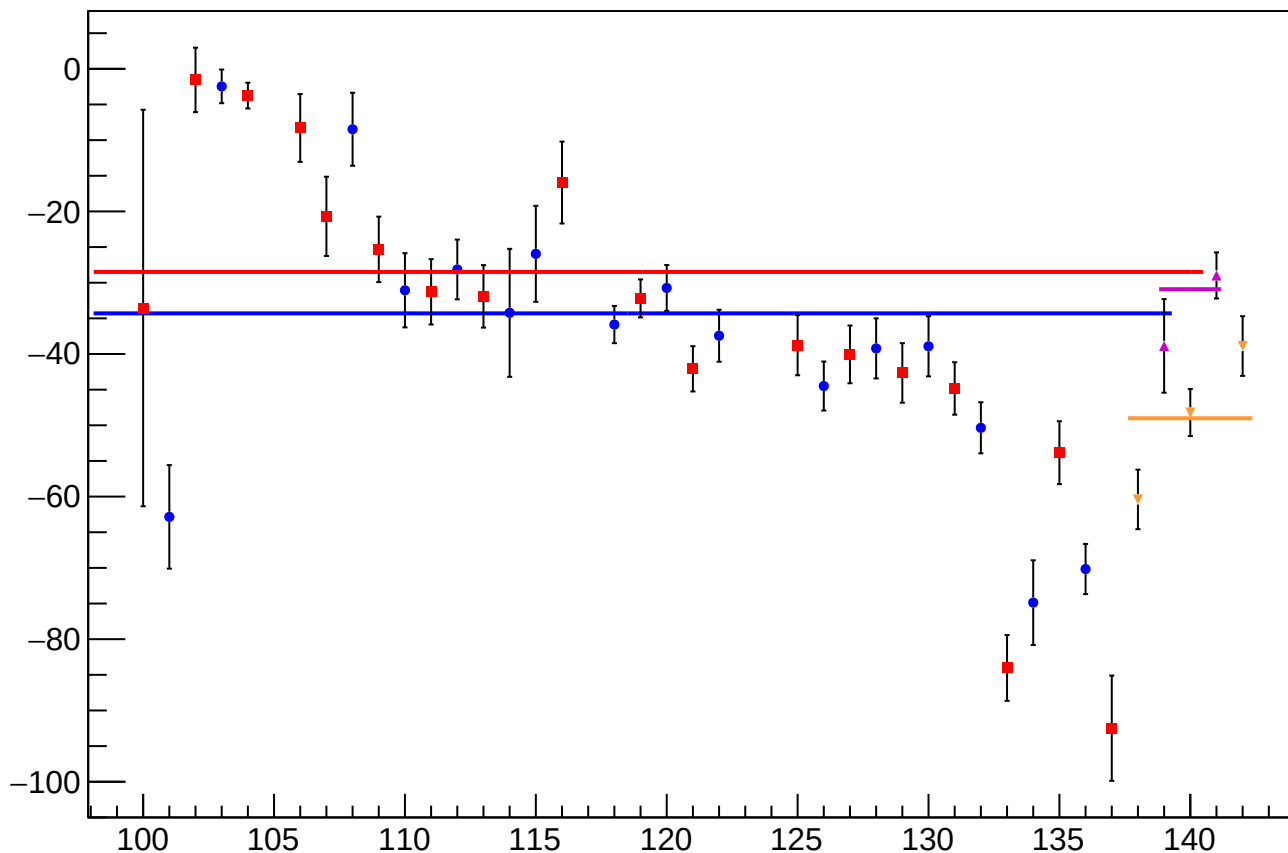
Right: -124.047+/-0.586 χ^2/NDF : 30944.8/33

In: -137.796+/-0.809 χ^2/NDF :15816.1/17

Out: -126.461+/-0.767 χ^2/NDF :16996.5/20

All: -131.826+/-0.557 χ^2/NDF : 32915.9/38

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.301 ± 0.968 $\chi^2/\text{NDF}: 411.3/15$

Left Out: -49.014 ± 2.201 $\chi^2/\text{NDF}: 13.4/2$

Right Out: -28.488 ± 0.907 $\chi^2/\text{NDF}: 568.0/17$

Left In: -30.910 ± 2.899 $\chi^2/\text{NDF}: 1.8/1$

Left: -42.396 ± 1.753 $\chi^2/\text{NDF}: 39.9/4$

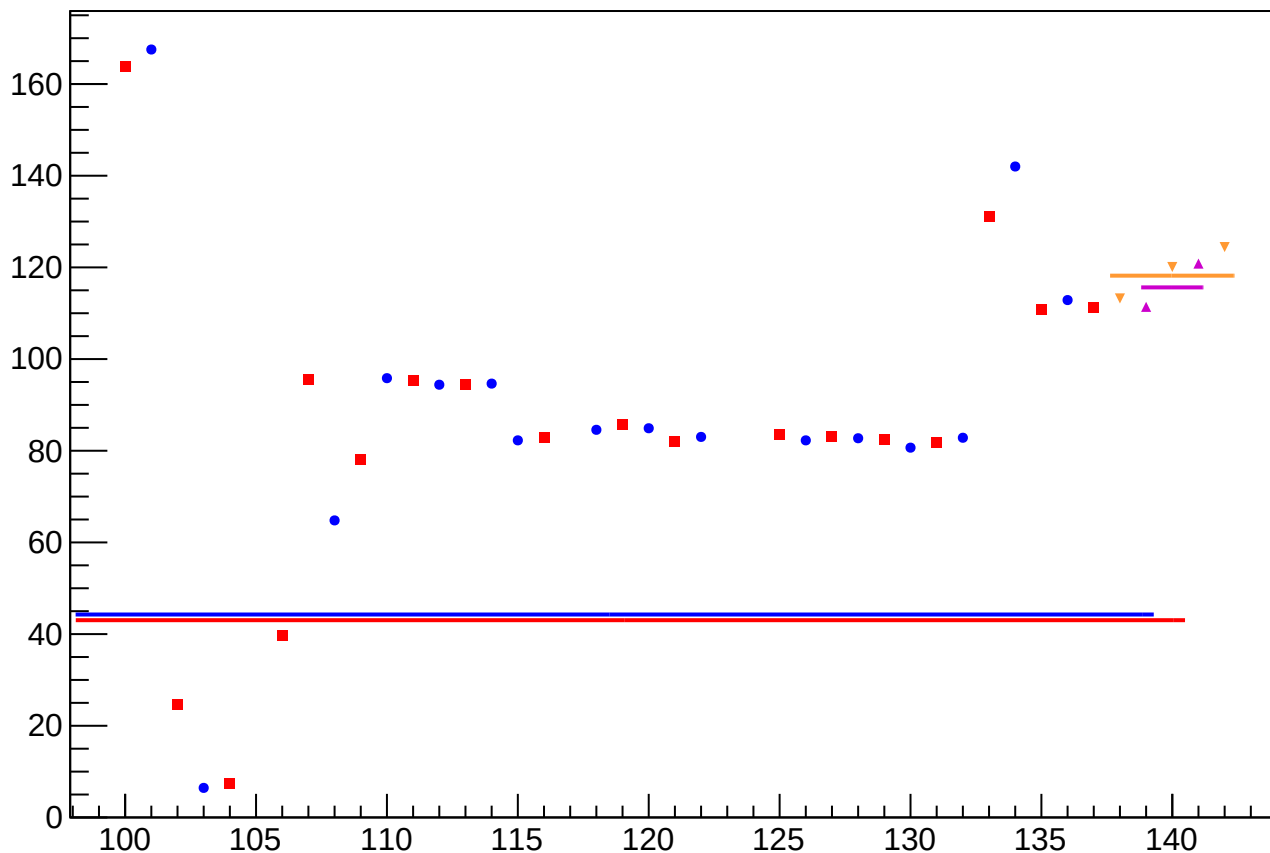
Right: -31.206 ± 0.662 $\chi^2/\text{NDF}: 998.5/33$

In: -33.961 ± 0.918 $\chi^2/\text{NDF}: 414.4/17$

Out: -31.467 ± 0.838 $\chi^2/\text{NDF}: 655.7/20$

All: -32.601 ± 0.619 $\chi^2/\text{NDF}: 1074.1/38$

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 44.274+/-0.045 χ^2/NDF : 1085082.2/15

Left Out: 118.196+/-0.098 χ^2/NDF : 1939.4/2

Right Out: 43.035+/-0.045 χ^2/NDF : 805108.5/17

Left In: 115.637+/-0.105 χ^2/NDF : 2001.5/1

Left: 117.006+/-0.072 χ^2/NDF : 4259.2/4

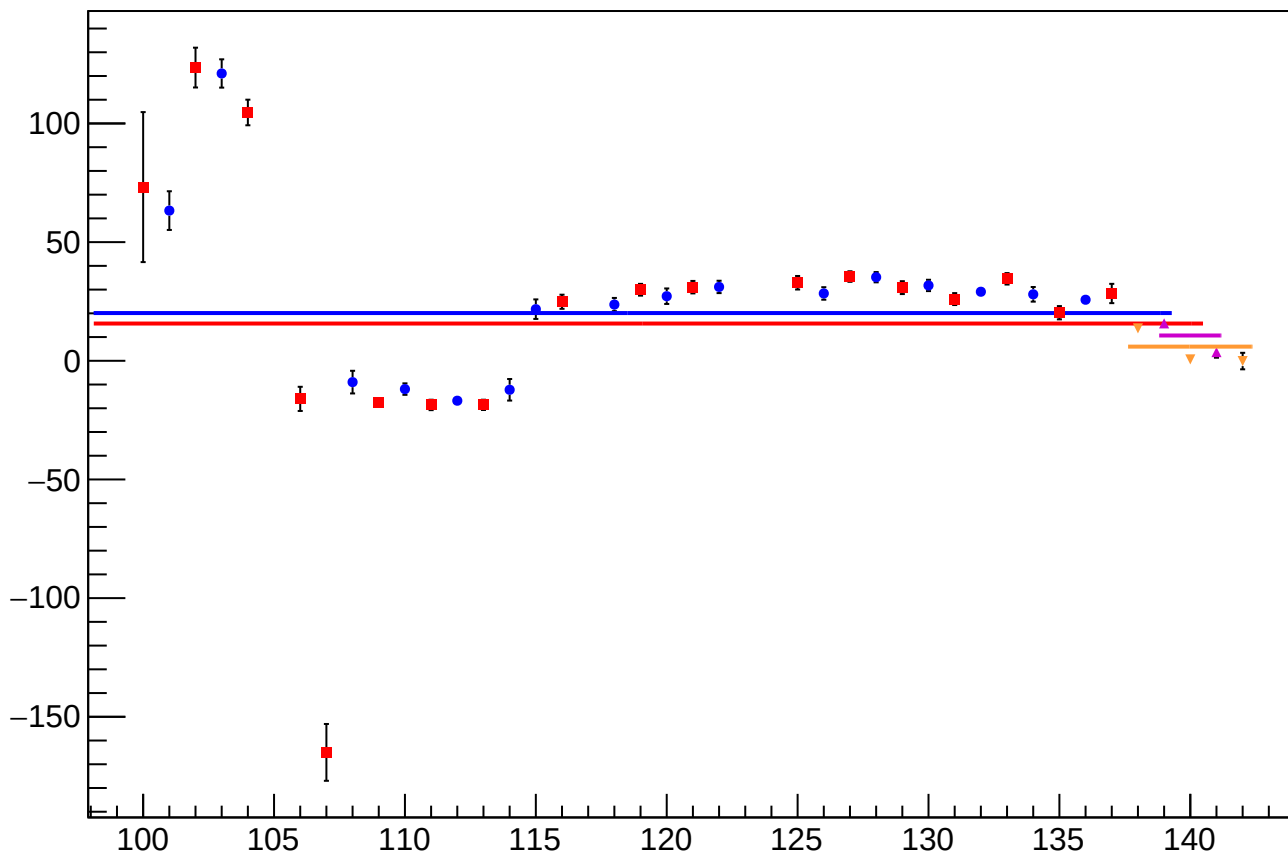
Right: 43.656+/-0.032 χ^2/NDF : 1890570.2/33

In: 55.339+/-0.041 χ^2/NDF : 1478026.5/17

Out: 56.180+/-0.041 χ^2/NDF : 1294186.9/20

All: 55.764+/-0.029 χ^2/NDF : 2772422.9/38

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 20.117 $\pm$ 0.687 χ^2 /NDF: 1048.1/15

Left Out: 5.971 $\pm$ 1.355 χ^2 /NDF:23.4/2

Right Out: 15.700 $\pm$ 0.682 χ^2 /NDF: 1773.8/17

Left In: 10.661 $\pm$ 1.527 χ^2 /NDF:15.4/1

Left: 8.037 $\pm$ 1.013 χ^2 /NDF: 44.0/4

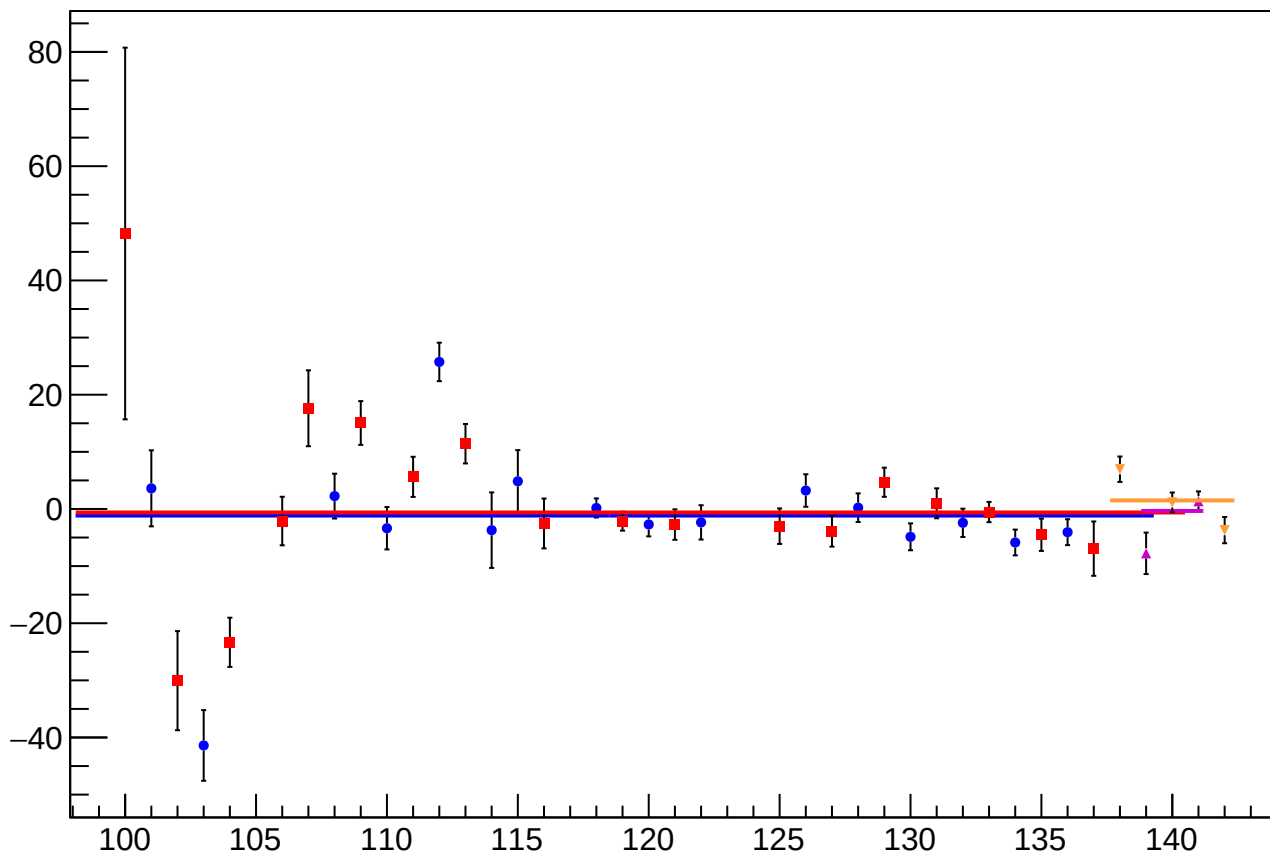
Right: 17.893 $\pm$ 0.484 χ^2 /NDF: 2842.7/33

In: 18.525 $\pm$ 0.627 χ^2 /NDF:1095.4/17

Out: 13.733 $\pm$ 0.609 χ^2 /NDF:1838.3/20

All: 16.062 $\pm$ 0.437 χ^2 /NDF: 2963.8/38

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.151 ± 0.699 χ^2/NDF : 121.8/15

Left Out: 1.492 ± 1.175 χ^2/NDF : 11.2/2

Right Out: -0.614 ± 0.713 χ^2/NDF : 93.4/17

Left In: -0.344 ± 1.562 χ^2/NDF : 5.1/1

Left: 0.828 ± 0.939 χ^2/NDF : 17.2/4

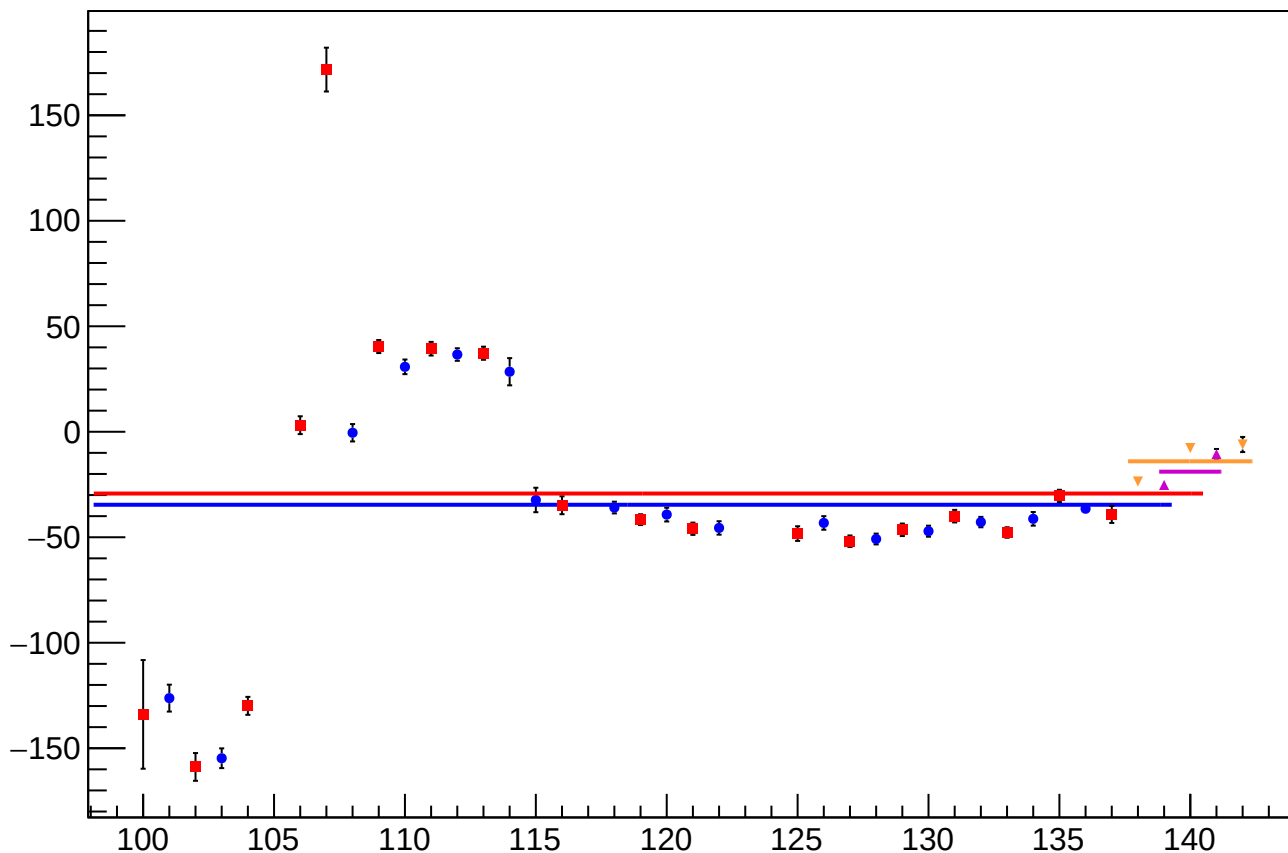
Right: -0.888 ± 0.499 χ^2/NDF : 215.5/33

In: -1.016 ± 0.638 χ^2/NDF : 127.2/17

Out: -0.047 ± 0.610 χ^2/NDF : 106.9/20

All: -0.510 ± 0.441 χ^2/NDF : 235.3/38

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -34.598 ± 0.786 $\chi^2/\text{NDF}: 2058.4/15$

Left Out: -14.001 ± 1.403 $\chi^2/\text{NDF}: 32.9/2$

Right Out: -29.277 ± 0.800 $\chi^2/\text{NDF}: 3081.1/17$

Left In: -18.922 ± 1.580 $\chi^2/\text{NDF}: 21.0/1$

Left: -16.170 ± 1.049 $\chi^2/\text{NDF}: 59.3/4$

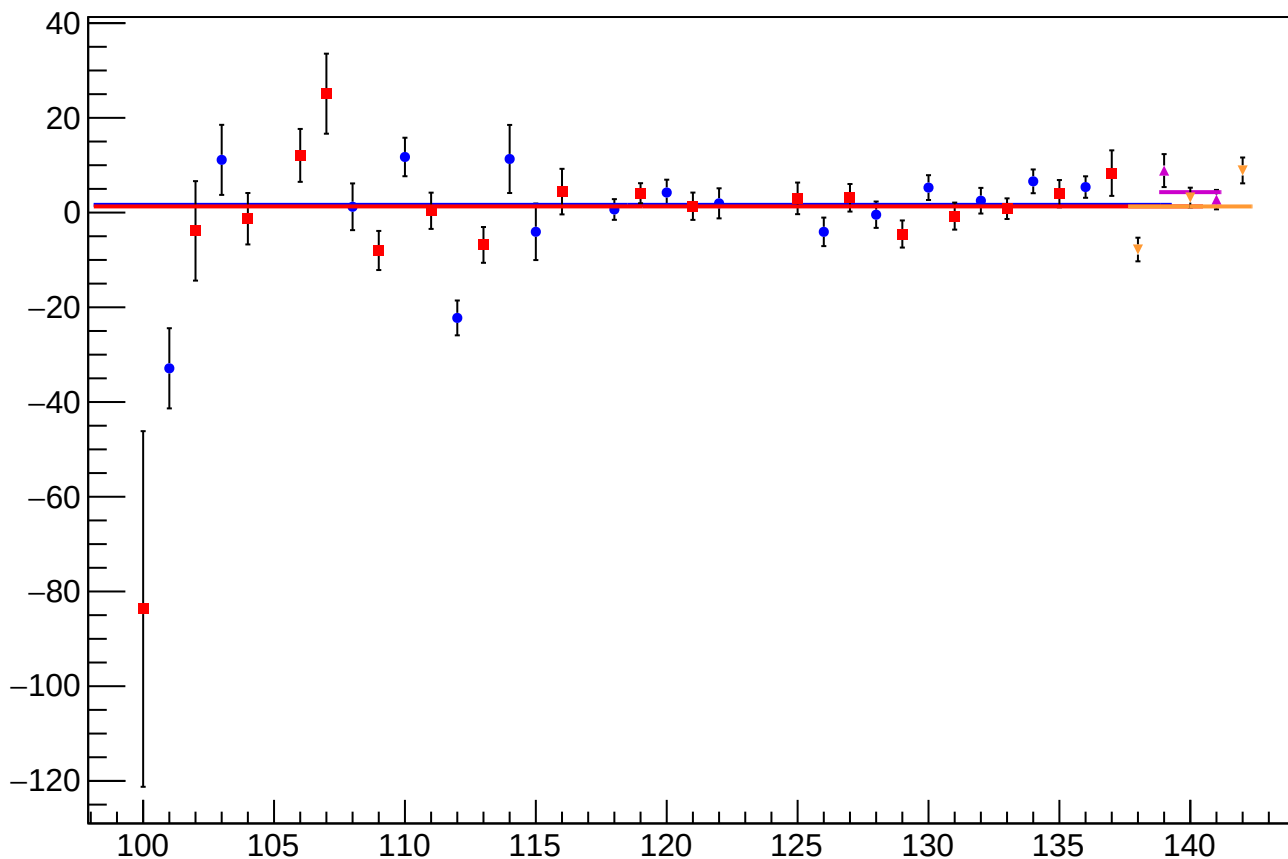
Right: -31.983 ± 0.561 $\chi^2/\text{NDF}: 5162.0/33$

In: -31.488 ± 0.704 $\chi^2/\text{NDF}: 2158.3/17$

Out: -25.530 ± 0.695 $\chi^2/\text{NDF}: 3203.5/20$

All: -28.470 ± 0.494 $\chi^2/\text{NDF}: 5398.1/38$

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.630 $\pm$ 0.797 χ^2 /NDF: 83.3/15

Left Out: 1.292 $\pm$ 1.378 χ^2 /NDF:21.9/2

Right Out: 1.298 $\pm$ 0.817 χ^2 /NDF: 37.5/17

Left In: 4.314 $\pm$ 1.767 χ^2 /NDF:2.3/1

Left: 2.435 $\pm$ 1.086 χ^2 /NDF: 26.0/4

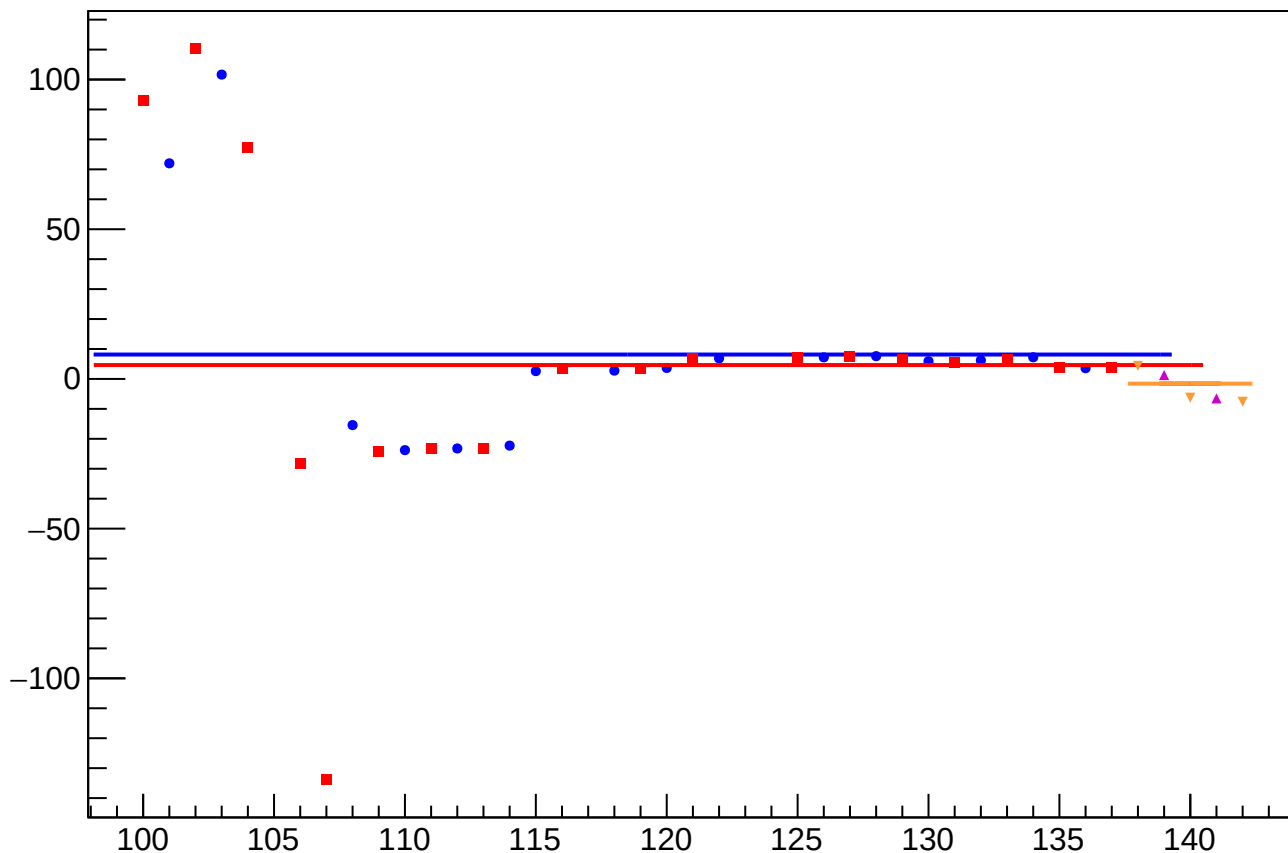
Right: 1.468 $\pm$ 0.570 χ^2 /NDF: 120.9/33

In: 2.084 $\pm$ 0.726 χ^2 /NDF:87.5/17

Out: 1.297 $\pm$ 0.702 χ^2 /NDF:59.4/20

All: 1.677 $\pm$ 0.505 χ^2 /NDF: 147.5/38

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 8.146+/-0.048 χ^2/NDF : 313350.7/15

Left Out: -1.588+/-0.058 χ^2/NDF : 8978.6/2

Right Out: 4.638+/-0.052 χ^2/NDF : 446805.7/17

Left In: -1.559+/-0.059 χ^2/NDF : 3994.3/1

Left: -1.574+/-0.042 χ^2/NDF : 12973.0/4

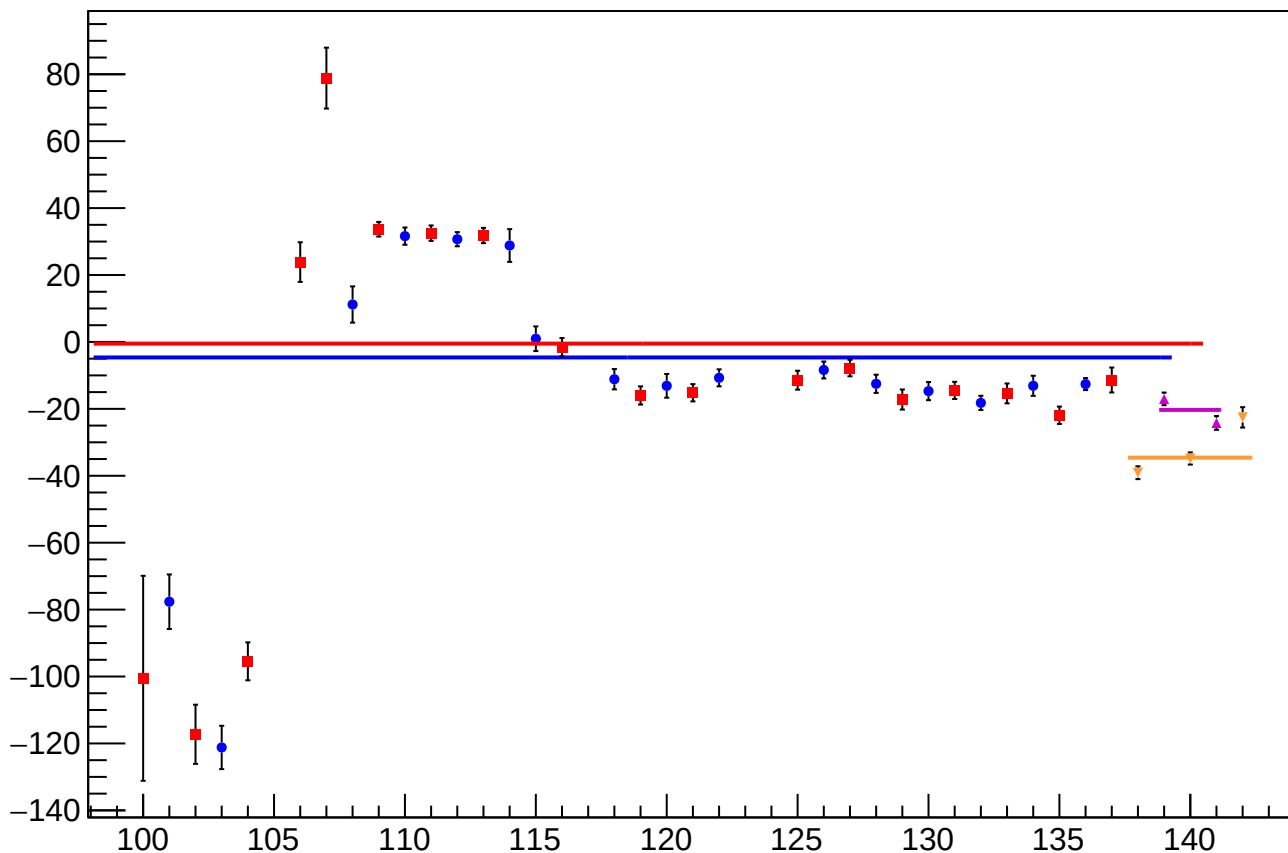
Right: 6.508+/-0.035 χ^2/NDF : 762611.1/33

In: 4.284+/-0.038 χ^2/NDF : 333364.6/17

Out: 1.891+/-0.039 χ^2/NDF : 462187.1/20

All: 3.122+/-0.027 χ^2/NDF : 797524.6/38

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.640+/-0.712 χ^2/NDF : 1046.3/15

Left Out: -34.582+/-1.212 χ^2/NDF :21.1/2

Right Out: -0.505+/-0.711 χ^2/NDF : 1457.8/17

Left In: -20.307+/-1.395 χ^2/NDF :6.6/1

Left: -28.441+/-0.915 χ^2/NDF : 87.4/4

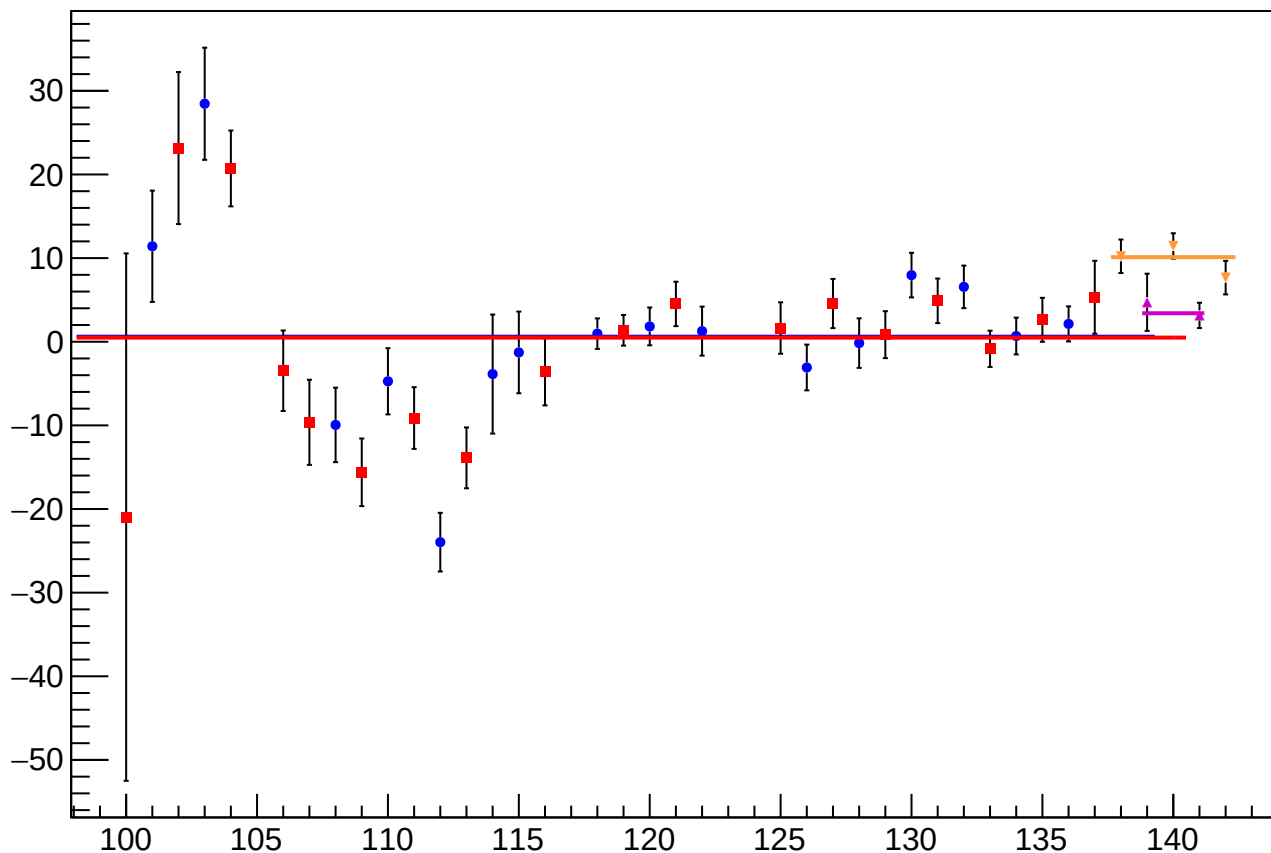
Right: -2.571+/-0.503 χ^2/NDF : 2521.0/33

In: -7.876+/-0.634 χ^2/NDF :1153.0/17

Out: -9.229+/-0.613 χ^2/NDF :2067.2/20

All: -8.575+/-0.441 χ^2/NDF : 3222.5/38

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.602 ± 0.727 $\chi^2/\text{NDF}: 92.9/15$

Left Out: 10.113 ± 1.036 $\chi^2/\text{NDF}: 2.3/2$

Right Out: 0.496 ± 0.755 $\chi^2/\text{NDF}: 80.2/17$

Left In: 3.406 ± 1.385 $\chi^2/\text{NDF}: 0.2/1$

Left: 7.707 ± 0.830 $\chi^2/\text{NDF}: 17.5/4$

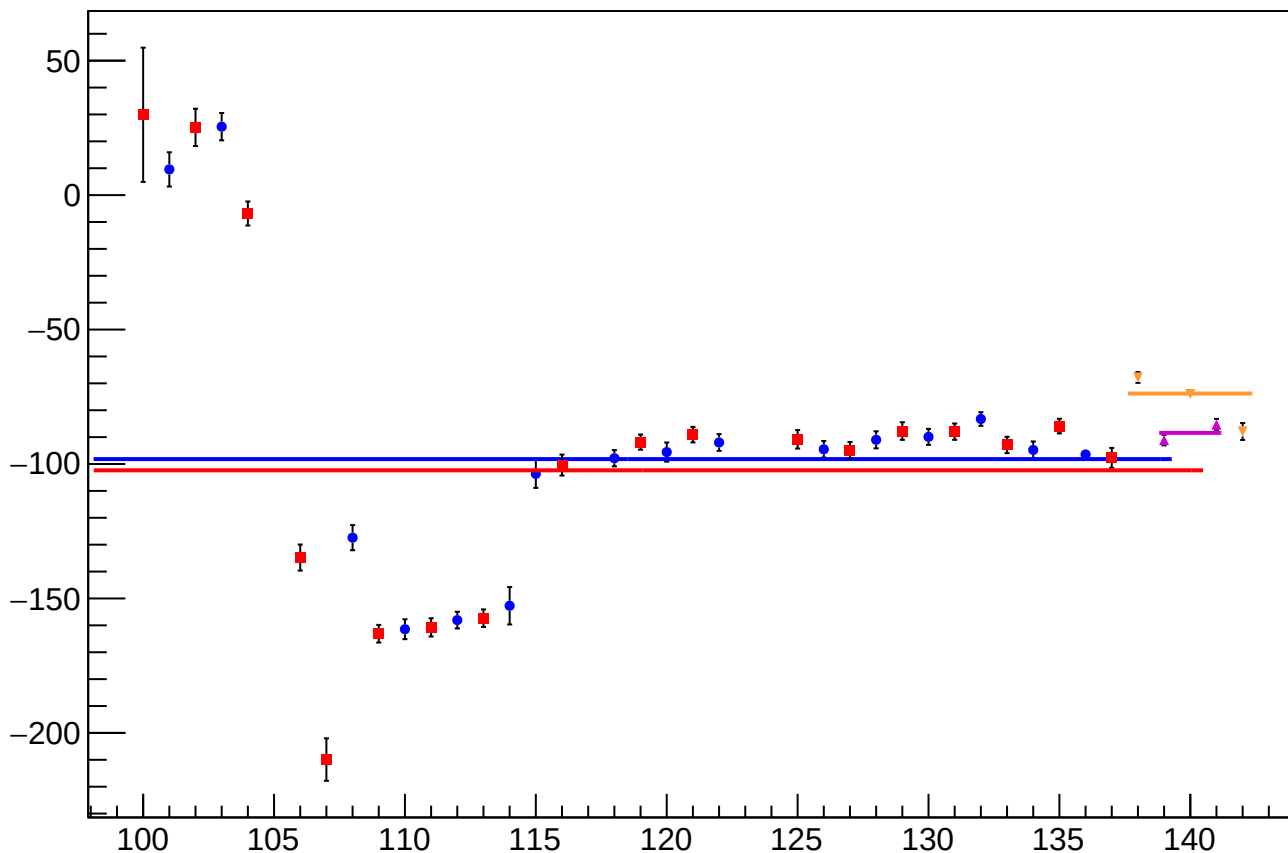
Right: 0.551 ± 0.524 $\chi^2/\text{NDF}: 173.0/33$

In: 1.207 ± 0.644 $\chi^2/\text{NDF}: 96.3/17$

Out: 3.830 ± 0.610 $\chi^2/\text{NDF}: 138.7/20$

All: 2.589 ± 0.443 $\chi^2/\text{NDF}: 243.7/38$

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -98.168 ± 0.813 χ^2/NDF : 1699.9/15

Left Out: -73.793 ± 1.254 χ^2/NDF : 29.0/2

Right Out: -102.349 ± 0.837 χ^2/NDF : 2117.5/17

Left In: -88.423 ± 1.443 χ^2/NDF : 4.0/1

Left: -80.089 ± 0.947 χ^2/NDF : 91.5/4

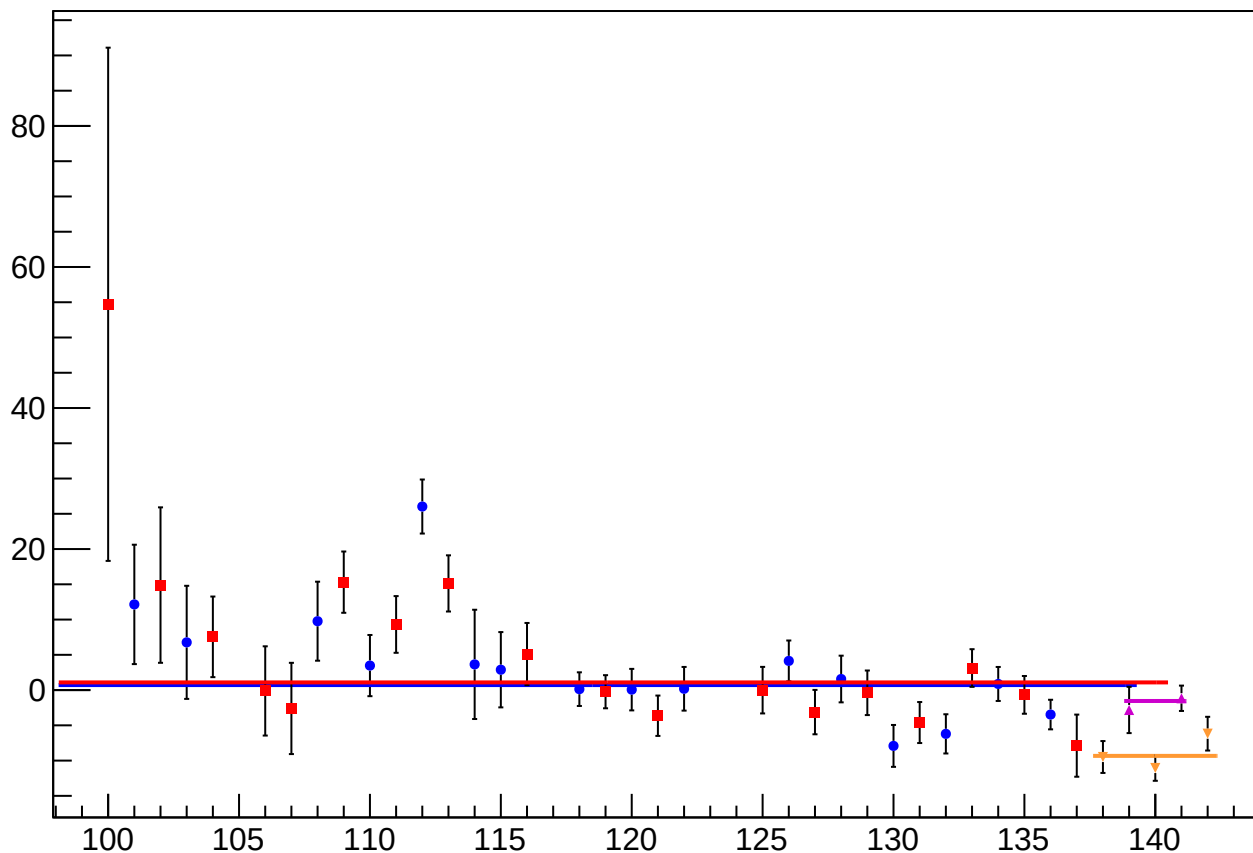
Right: -100.197 ± 0.583 χ^2/NDF : 3830.3/33

In: -95.821 ± 0.708 χ^2/NDF : 1738.5/17

Out: -93.551 ± 0.696 χ^2/NDF : 2505.2/20

All: -94.667 ± 0.496 χ^2/NDF : 4249.0/38

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.711 ± 0.821 $\chi^2/\text{NDF}: 69.6/15$

Left Out: -9.331 ± 1.219 $\chi^2/\text{NDF}: 2.6/2$

Right Out: 1.088 ± 0.856 $\chi^2/\text{NDF}: 47.7/17$

Left In: -1.545 ± 1.576 $\chi^2/\text{NDF}: 0.2/1$

Left: -6.417 ± 0.964 $\chi^2/\text{NDF}: 18.1/4$

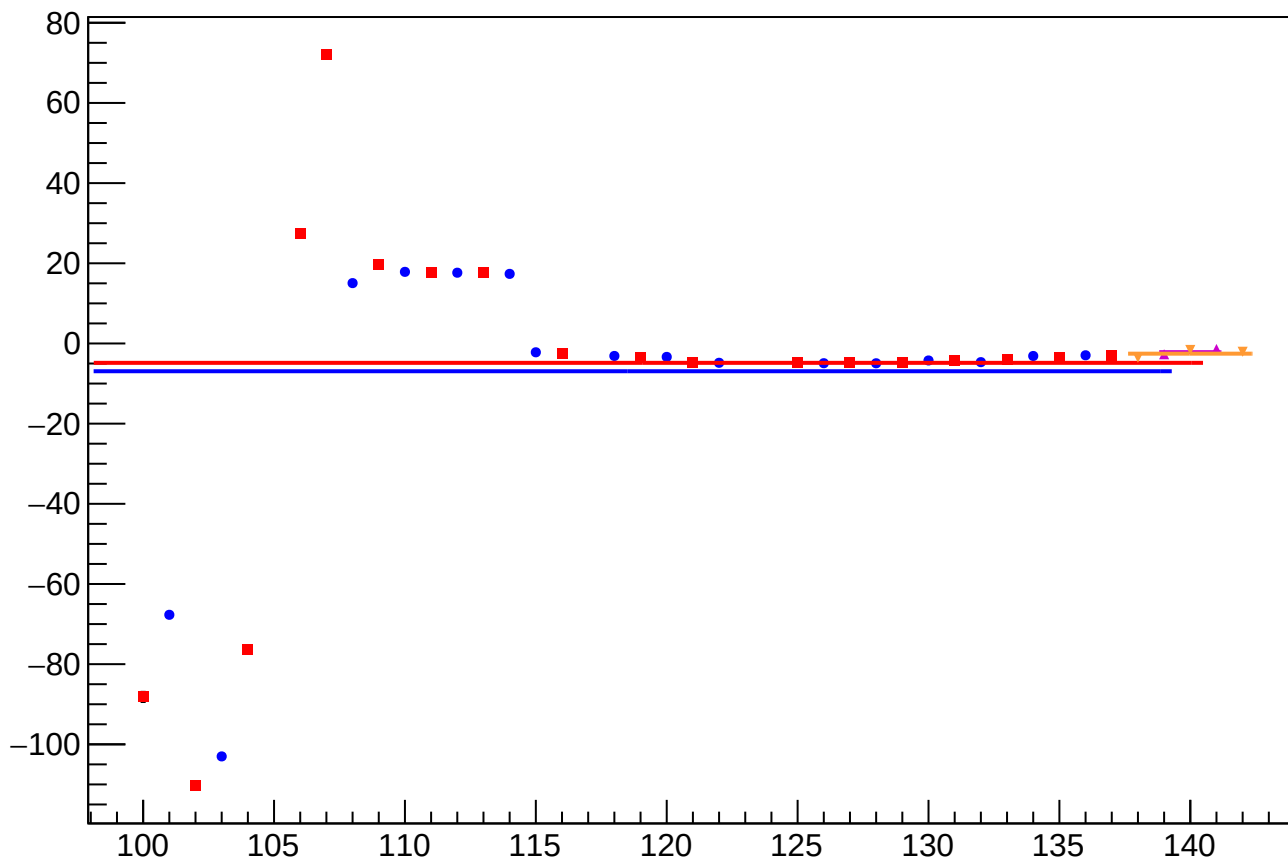
Right: 0.892 ± 0.593 $\chi^2/\text{NDF}: 117.4/33$

In: 0.229 ± 0.728 $\chi^2/\text{NDF}: 71.4/17$

Out: -2.355 ± 0.701 $\chi^2/\text{NDF}: 99.2/20$

All: -1.113 ± 0.505 $\chi^2/\text{NDF}: 177.2/38$

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.927 ± 0.049 χ^2/NDF : 265187.0/15

Left Out: -2.545 ± 0.052 χ^2/NDF : 306.0/2

Right Out: -4.833 ± 0.053 χ^2/NDF : 339363.3/17

Left In: -2.163 ± 0.055 χ^2/NDF : 139.4/1

Left: -2.362 ± 0.038 χ^2/NDF : 471.0/4

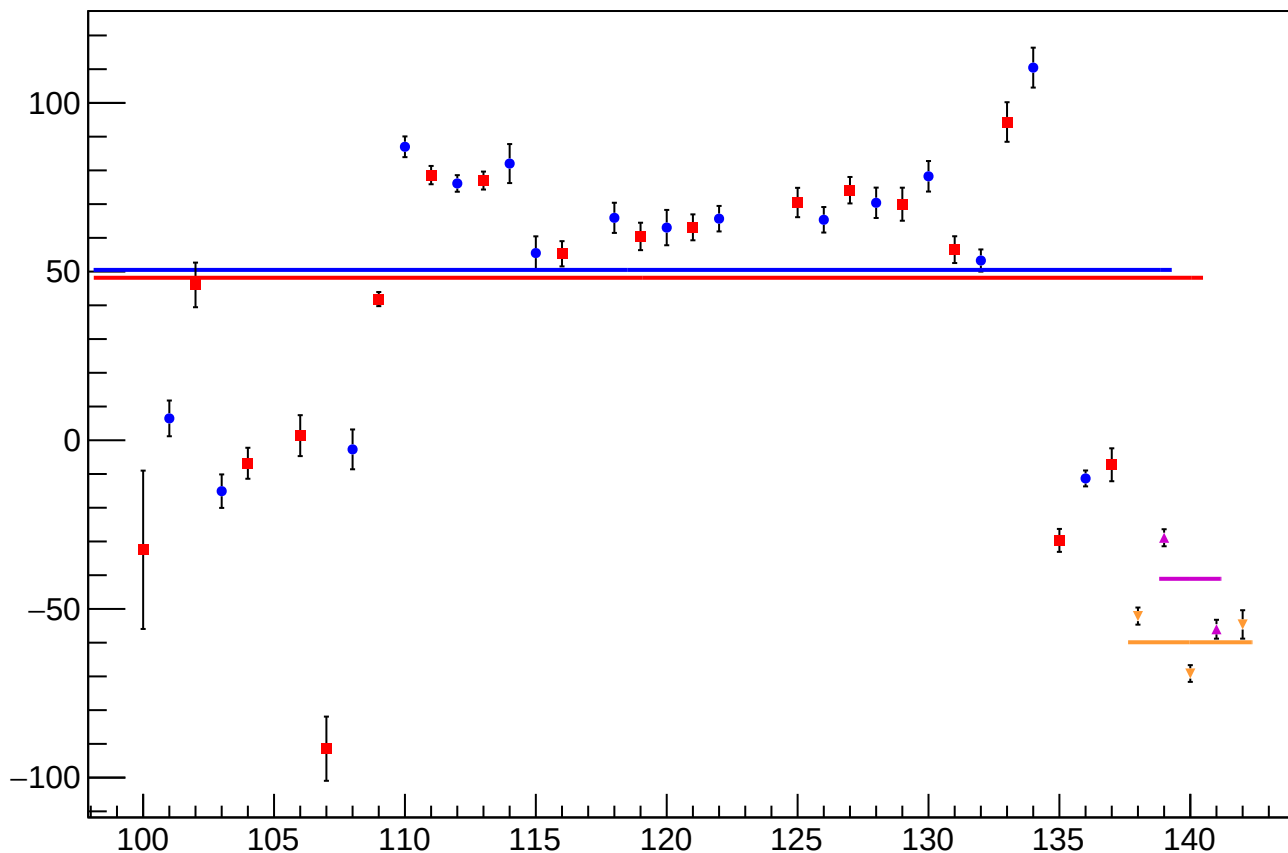
Right: -5.968 ± 0.036 χ^2/NDF : 605403.2/33

In: -4.824 ± 0.036 χ^2/NDF : 269581.8/17

Out: -3.678 ± 0.037 χ^2/NDF : 340617.2/20

All: -4.264 ± 0.026 χ^2/NDF : 610686.2/38

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 50.503+/-0.965 χ^2/NDF : 1503.6/15

Left Out: -59.881+/-1.635 χ^2/NDF : 24.9/2

Right Out: 48.172+/-0.914 χ^2/NDF : 1519.5/17

Left In: -41.068+/-1.875 χ^2/NDF : 51.8/1

Left: -51.754+/-1.232 χ^2/NDF : 133.9/4

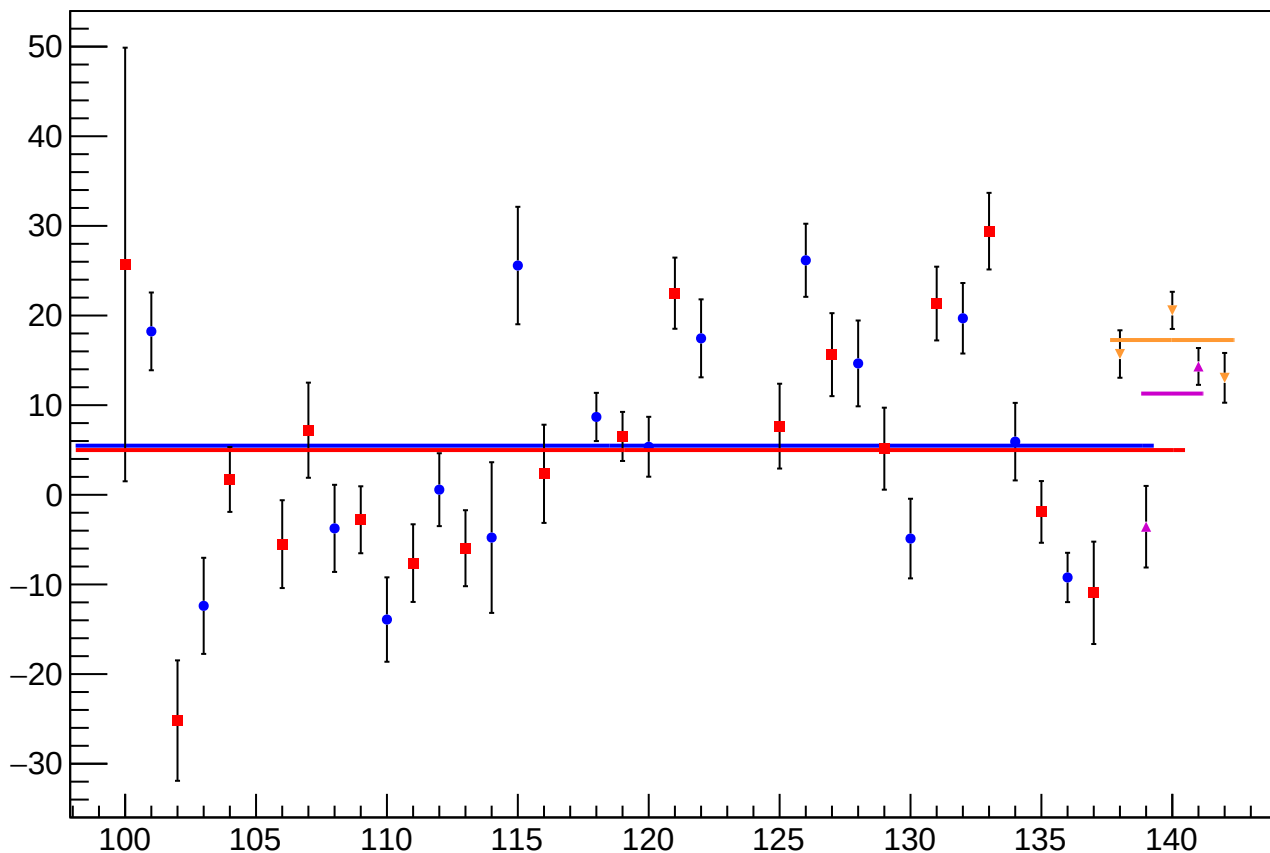
Right: 49.274+/-0.664 χ^2/NDF : 3026.2/33

In: 31.309+/-0.858 χ^2/NDF : 3441.5/17

Out: 22.426+/-0.798 χ^2/NDF : 4872.3/20

All: 26.545+/-0.584 χ^2/NDF : 8371.3/38

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.481 $\pm$ 1.021 χ^2 /NDF: 138.2/15

Left Out: 17.267 $\pm$ 1.407 χ^2 /NDF:5.2/2

Right Out: 4.992 $\pm$ 1.023 χ^2 /NDF: 131.8/17

Left In: 11.293 $\pm$ 1.873 χ^2 /NDF:12.8/1

Left: 15.112 $\pm$ 1.125 χ^2 /NDF: 24.5/4

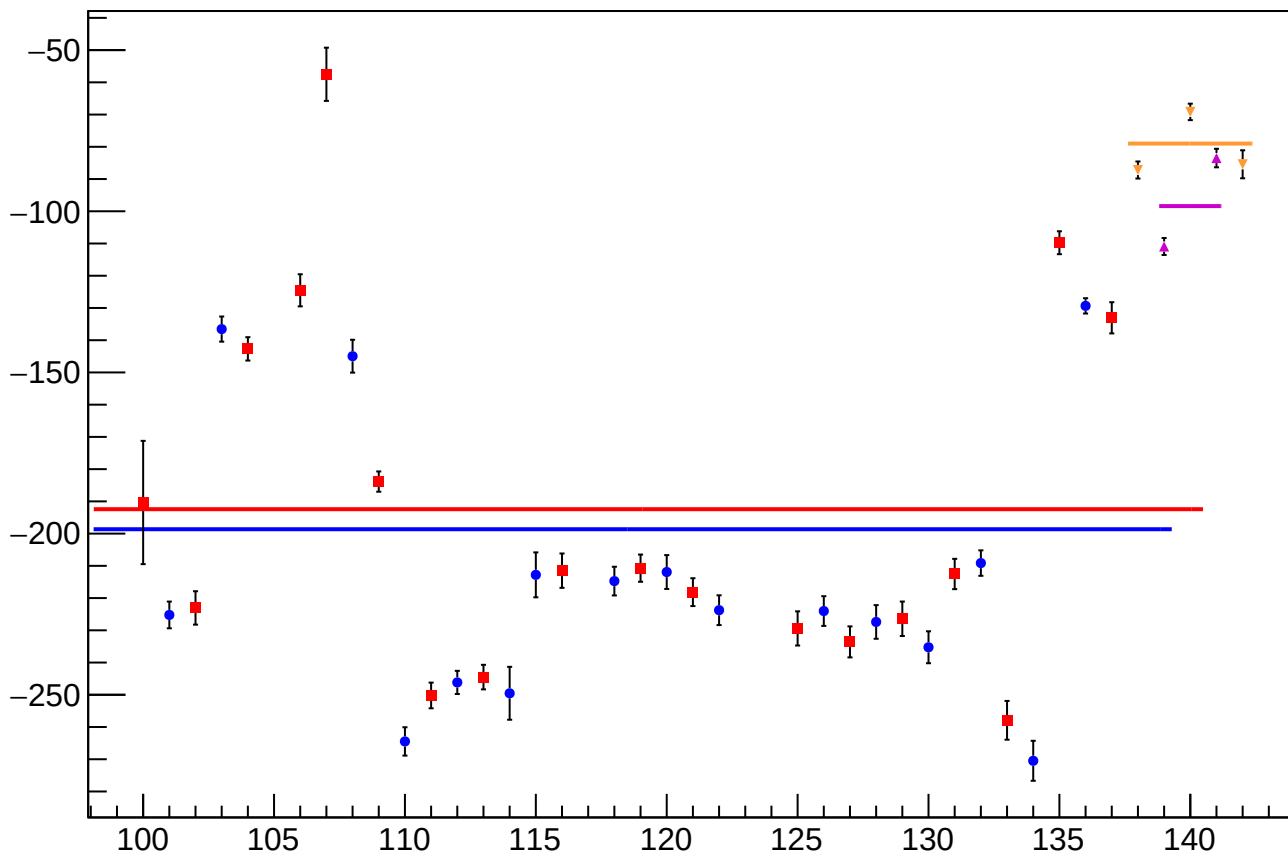
Right: 5.236 $\pm$ 0.723 χ^2 /NDF: 270.1/33

In: 6.813 $\pm$ 0.897 χ^2 /NDF:158.4/17

Out: 9.235 $\pm$ 0.827 χ^2 /NDF:186.9/20

All: 8.122 $\pm$ 0.608 χ^2 /NDF: 349.2/38

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -198.641 ± 1.083 χ^2/NDF : 2002.3/15

Left Out: -79.000 ± 1.692 χ^2/NDF : 26.6/2

Right Out: -192.426 ± 1.080 χ^2/NDF : 2139.0/17

Left In: -98.394 ± 1.940 χ^2/NDF : 49.6/1

Left: -87.381 ± 1.275 χ^2/NDF : 133.0/4

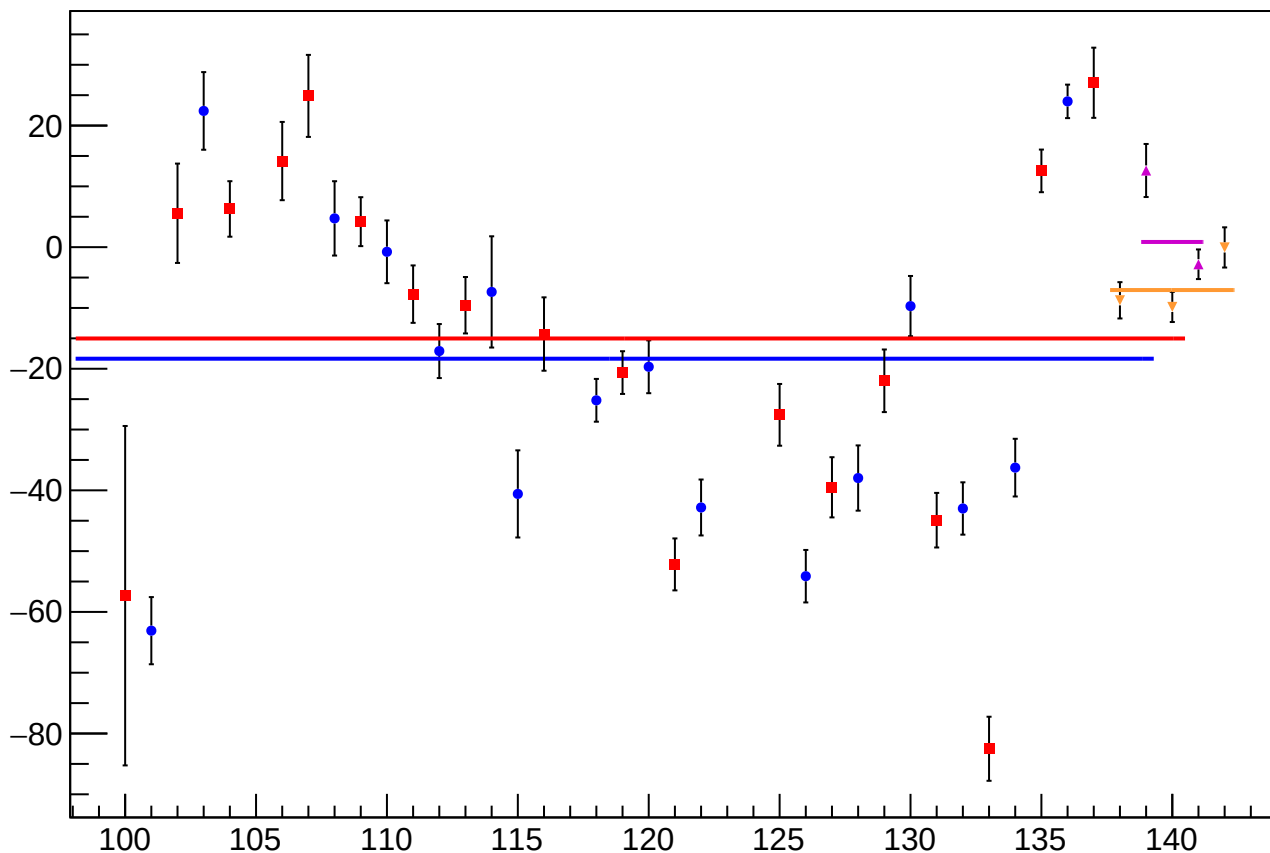
Right: -195.523 ± 0.765 χ^2/NDF : 4157.8/33

In: -174.810 ± 0.946 χ^2/NDF : 4087.2/17

Out: -159.613 ± 0.910 χ^2/NDF : 5358.1/20

All: -166.920 ± 0.656 χ^2/NDF : 9579.4/38

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -18.348 ± 1.159 χ^2/NDF : 543.9/15

Left Out: -7.054 ± 1.653 χ^2/NDF : 6.1/2

Right Out: -15.021 ± 1.162 χ^2/NDF : 546.4/17

Left In: 0.856 ± 2.128 χ^2/NDF : 9.5/1

Left: -4.077 ± 1.305 χ^2/NDF : 24.2/4

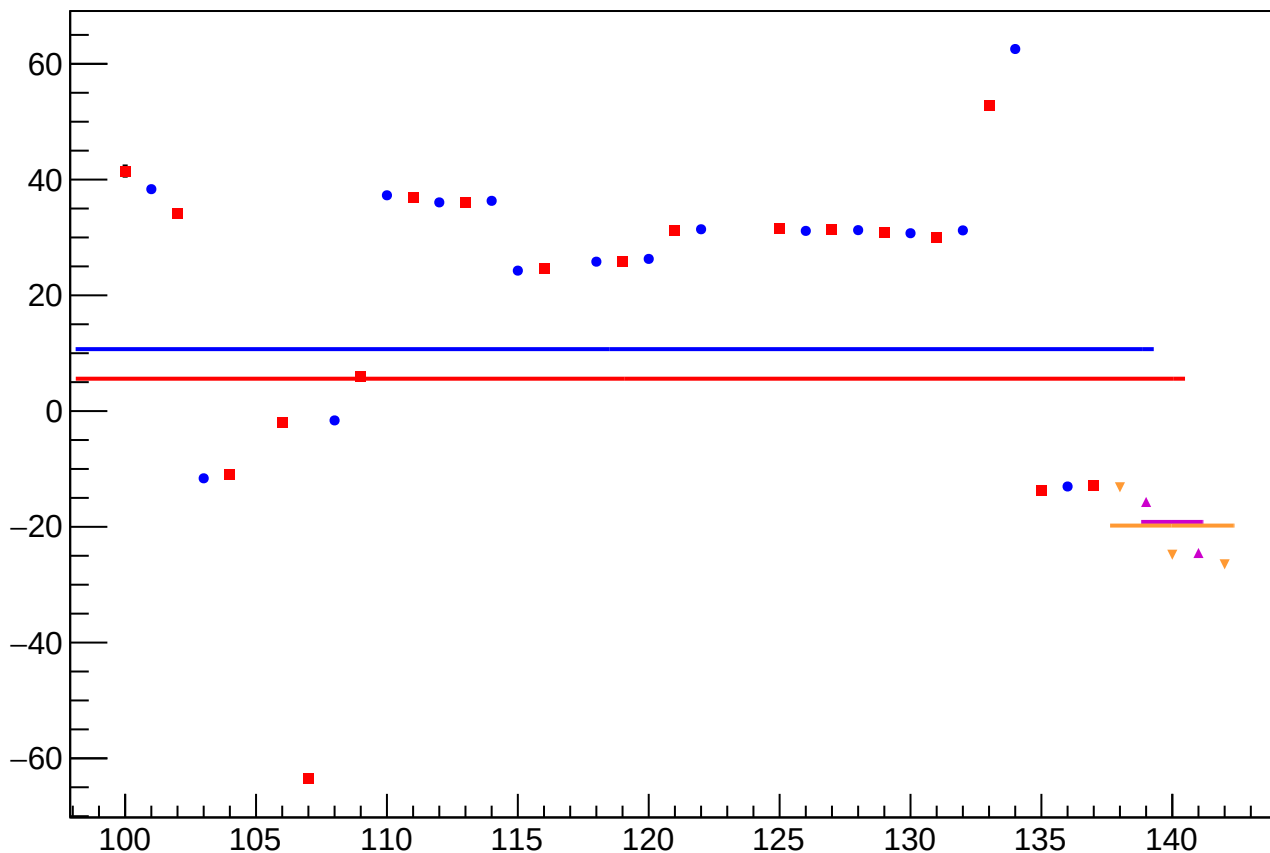
Right: -16.688 ± 0.821 χ^2/NDF : 1094.5/33

In: -13.953 ± 1.018 χ^2/NDF : 616.2/17

Out: -12.387 ± 0.951 χ^2/NDF : 568.1/20

All: -13.116 ± 0.695 χ^2/NDF : 1185.6/38

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 10.704+/-0.063 χ^2/NDF : 164860.8/15

Left Out: -19.784+/-0.070 χ^2/NDF : 7419.1/2

Right Out: 5.595+/-0.064 χ^2/NDF : 154966.4/17

Left In: -19.153+/-0.073 χ^2/NDF : 3456.8/1

Left: -19.481+/-0.051 χ^2/NDF : 10914.4/4

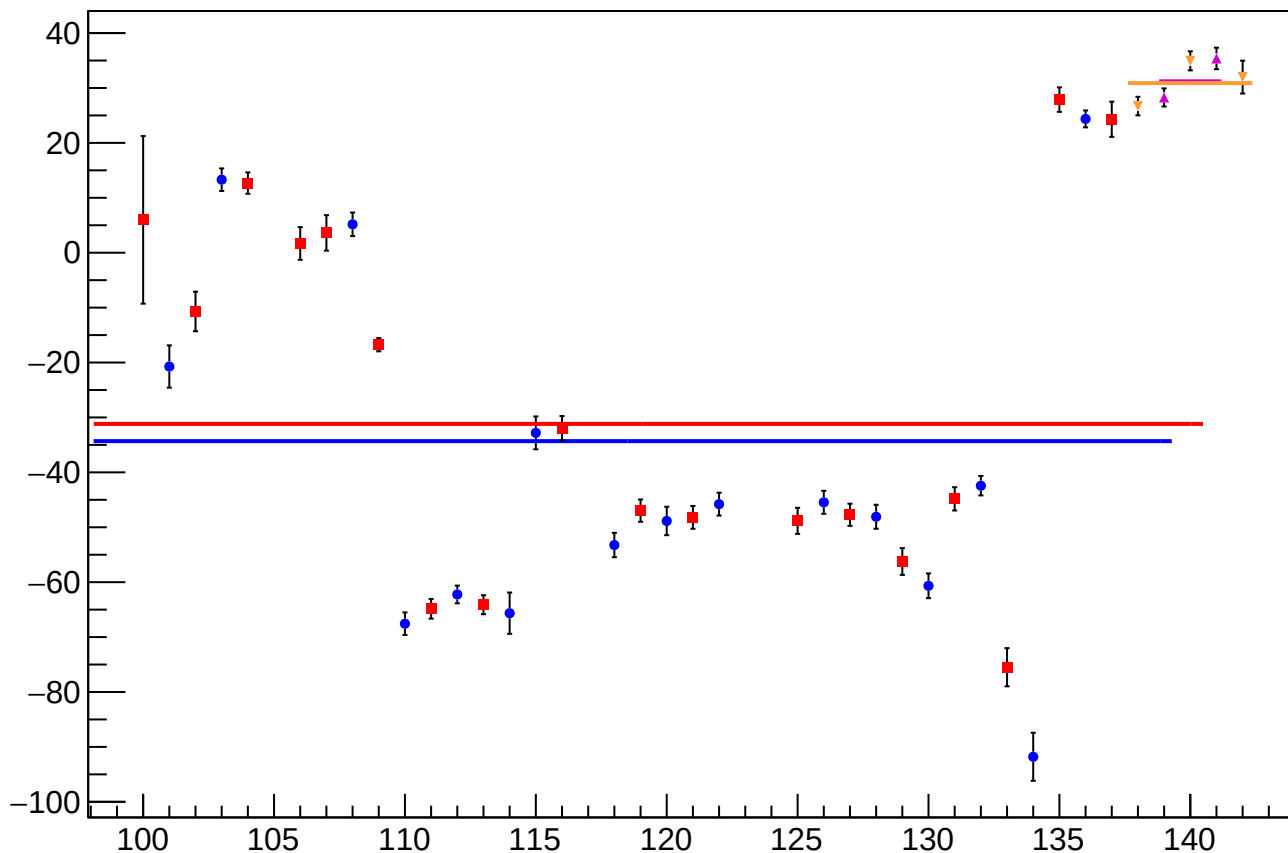
Right: 8.178+/-0.045 χ^2/NDF : 323087.7/33

In: -1.977+/-0.048 χ^2/NDF : 264006.5/17

Out: -5.810+/-0.047 χ^2/NDF : 233909.2/20

All: -3.914+/-0.034 χ^2/NDF : 501176.9/38

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -34.315 ± 0.548 $\chi^2/\text{NDF}: 3500.2/15$

Left Out: 30.889 ± 1.123 $\chi^2/\text{NDF}: 11.7/2$

Right Out: -31.175 ± 0.516 $\chi^2/\text{NDF}: 3200.4/17$

Left In: 31.213 ± 1.261 $\chi^2/\text{NDF}: 7.7/1$

Left: 31.032 ± 0.838 $\chi^2/\text{NDF}: 19.4/4$

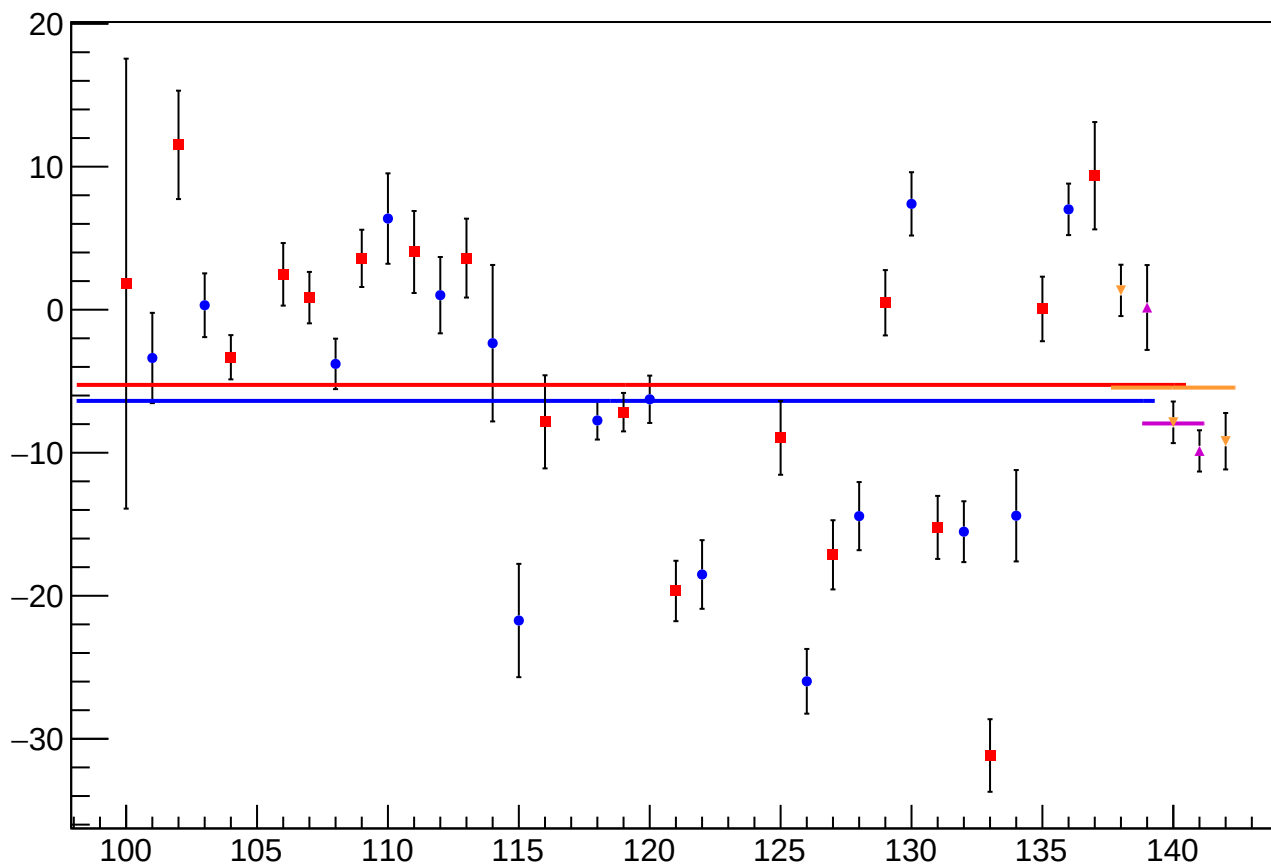
Right: -32.651 ± 0.375 $\chi^2/\text{NDF}: 6718.0/33$

In: -23.909 ± 0.502 $\chi^2/\text{NDF}: 5780.4/17$

Out: -20.362 ± 0.469 $\chi^2/\text{NDF}: 5735.1/20$

All: -22.013 ± 0.343 $\chi^2/\text{NDF}: 11542.2/38$

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.375 ± 0.554 χ^2/NDF : 283.6/15

Left Out: -5.446 ± 0.981 χ^2/NDF : 20.7/2

Right Out: -5.256 ± 0.533 χ^2/NDF : 312.9/17

Left In: -7.953 ± 1.298 χ^2/NDF : 9.2/1

Left: -6.357 ± 0.782 χ^2/NDF : 32.3/4

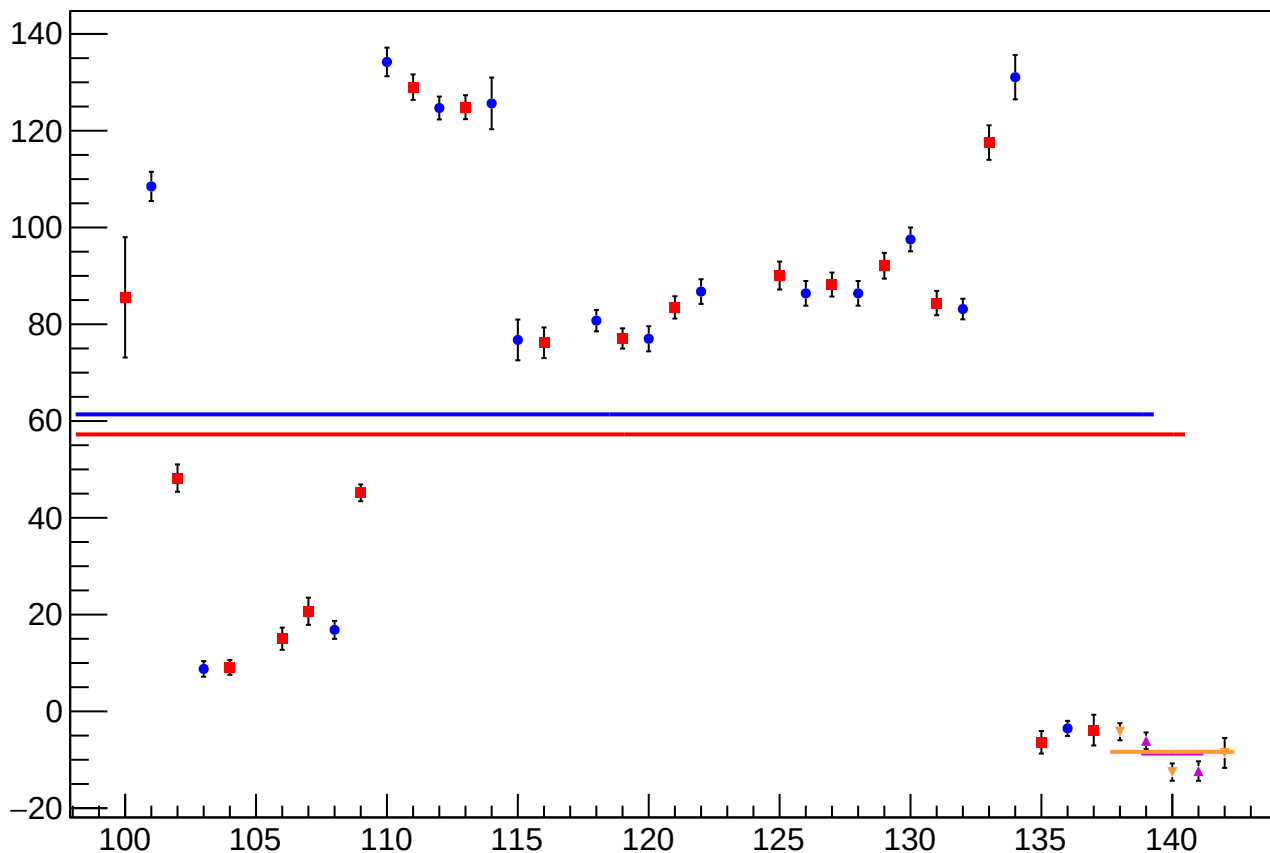
Right: -5.794 ± 0.384 χ^2/NDF : 598.6/33

In: -6.618 ± 0.509 χ^2/NDF : 294.1/17

Out: -5.300 ± 0.468 χ^2/NDF : 333.7/20

All: -5.903 ± 0.345 χ^2/NDF : 631.4/38

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 61.377+/-0.594 χ^2/NDF : 6066.8/15

Left Out: -8.369+/-1.163 χ^2/NDF : 11.1/2

Right Out: 57.240+/-0.580 χ^2/NDF : 5267.5/17

Left In: -8.711+/-1.305 χ^2/NDF : 5.6/1

Left: -8.520+/-0.868 χ^2/NDF : 16.7/4

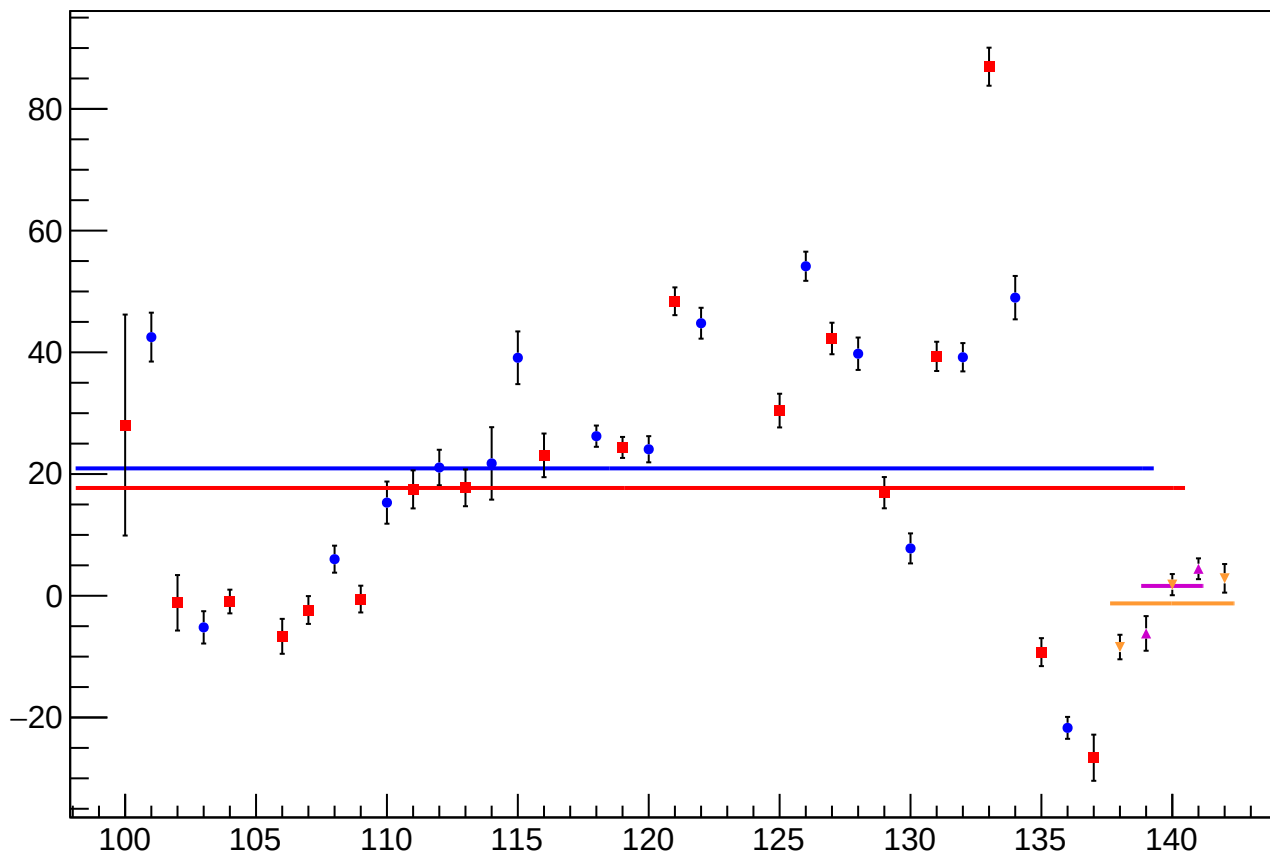
Right: 59.259+/-0.415 χ^2/NDF : 11359.0/33

In: 49.345+/-0.541 χ^2/NDF : 8459.9/17

Out: 44.164+/-0.519 χ^2/NDF : 7827.1/20

All: 46.649+/-0.375 χ^2/NDF : 16334.7/38

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.931 $\pm$ 0.640 χ^2 /NDF: 1245.4/15

Left Out: -1.257 $\pm$ 1.149 χ^2 /NDF:18.9/2

Right Out: 17.711 $\pm$ 0.618 χ^2 /NDF: 1481.9/17

Left In: 1.616 $\pm$ 1.466 χ^2 /NDF:10.2/1

Left: -0.164 $\pm$ 0.904 χ^2 /NDF: 31.5/4

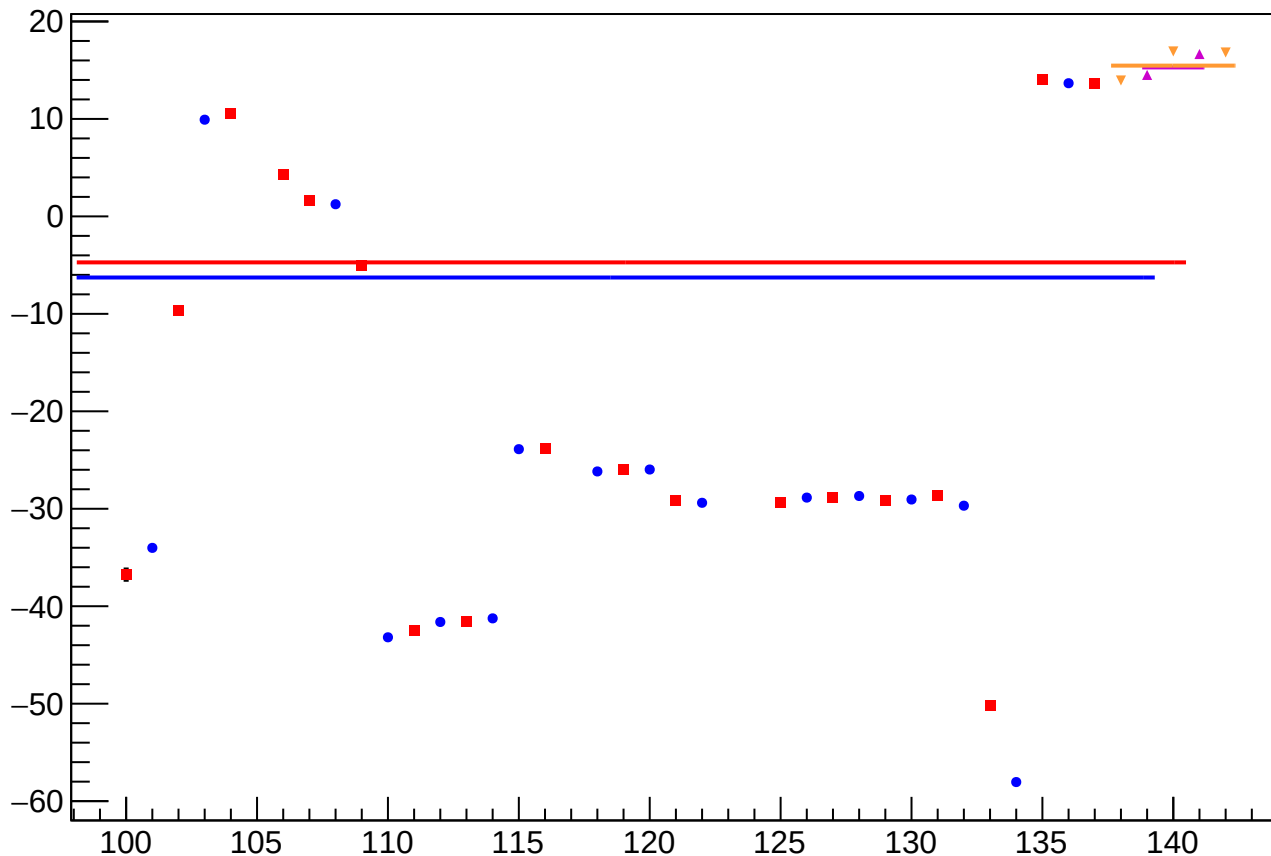
Right: 19.265 $\pm$ 0.445 χ^2 /NDF: 2740.4/33

In: 17.837 $\pm$ 0.587 χ^2 /NDF:1401.5/17

Out: 13.452 $\pm$ 0.544 χ^2 /NDF:1712.2/20

All: 15.481 $\pm$ 0.399 χ^2 /NDF: 3143.7/38

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.271+/-0.033 χ^2/NDF : 410461.0/15

Left Out: 15.470+/-0.048 χ^2/NDF : 937.7/2

Right Out: -4.720+/-0.034 χ^2/NDF : 306663.6/17

Left In: 15.284+/-0.049 χ^2/NDF : 439.1/1

Left: 15.379+/-0.034 χ^2/NDF : 1384.1/4

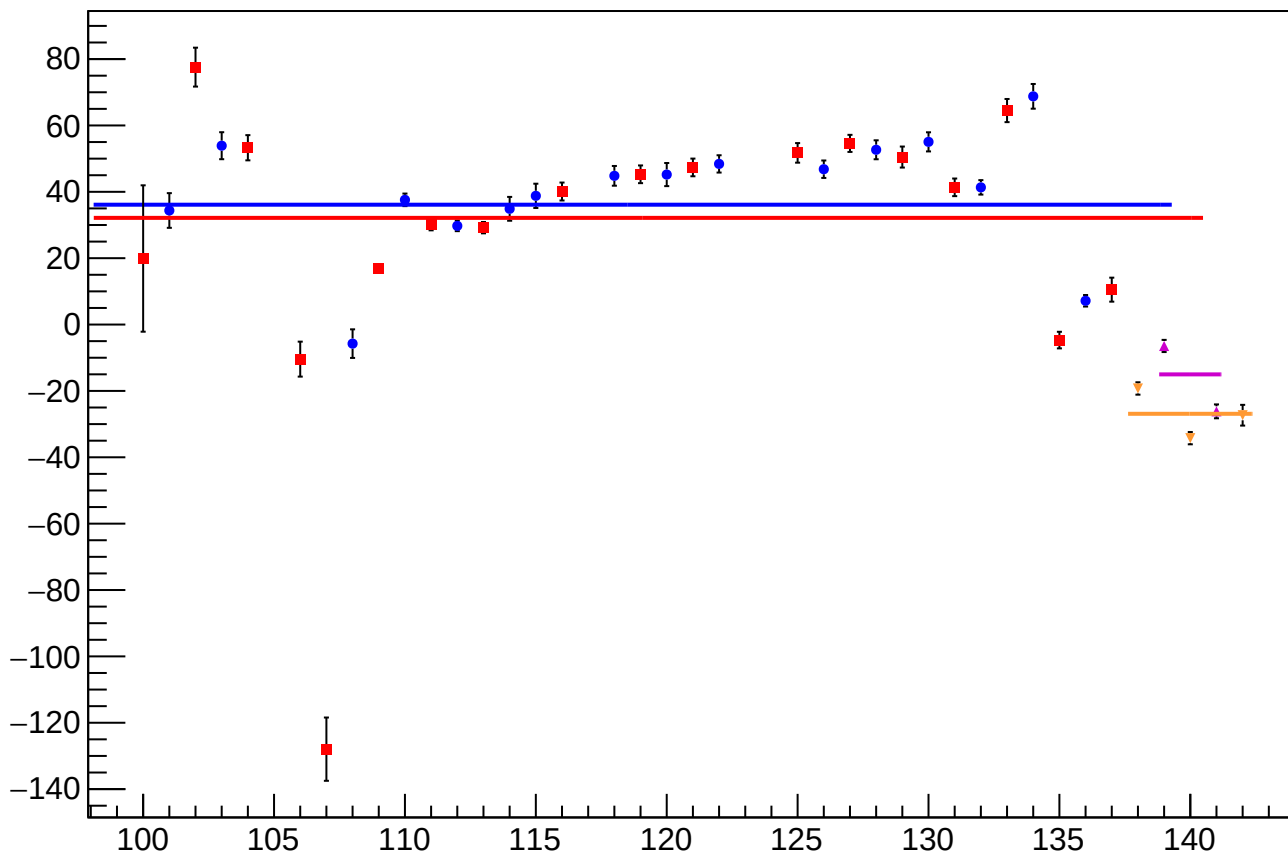
Right: -5.502+/-0.024 χ^2/NDF : 718193.1/33

In: 0.565+/-0.028 χ^2/NDF : 542870.5/17

Out: 1.914+/-0.028 χ^2/NDF : 425615.1/20

All: 1.240+/-0.020 χ^2/NDF : 969678.5/38

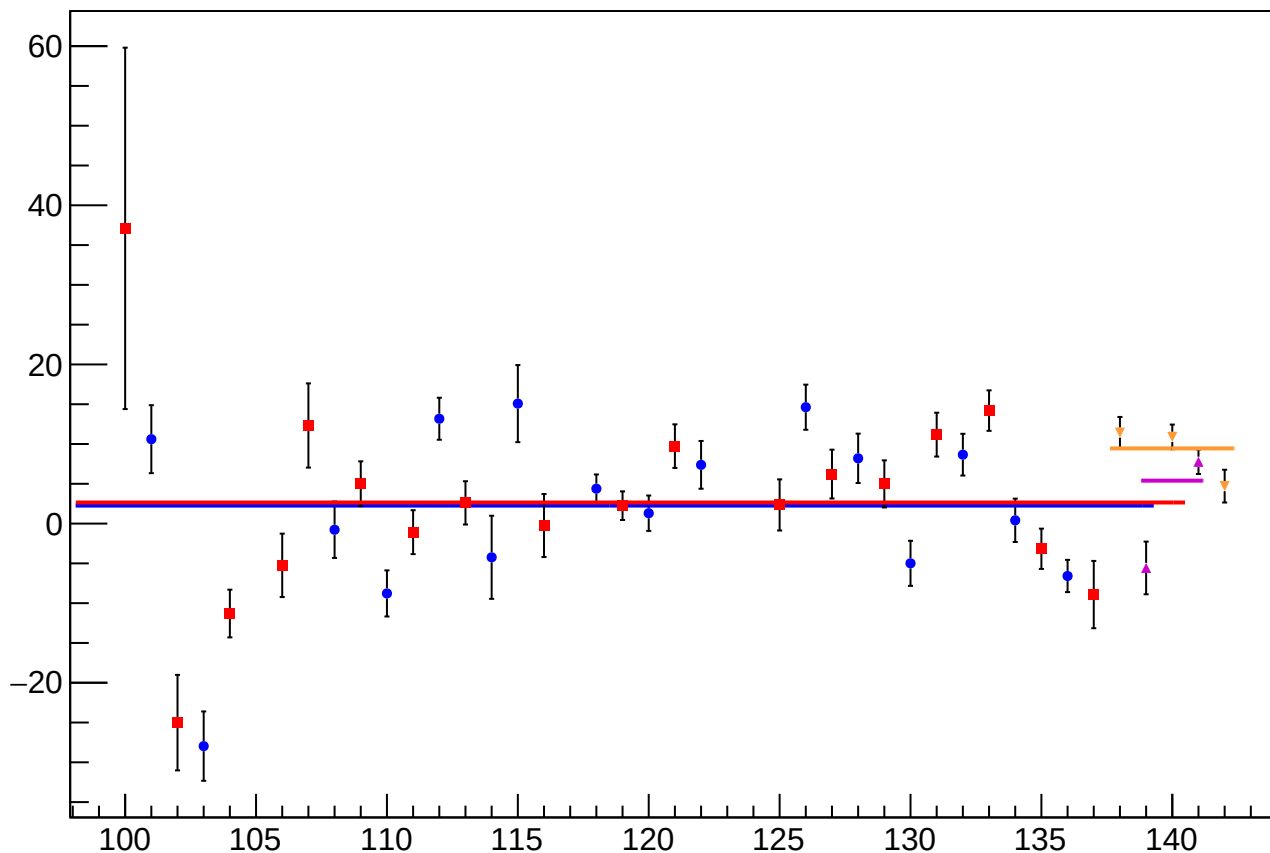
reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 36.118 ± 0.656 $\chi^2/\text{NDF}: 622.8/15$
 Left Out: -26.896 ± 1.212 $\chi^2/\text{NDF}: 32.5/2$
 Right Out: 32.150 ± 0.631 $\chi^2/\text{NDF}: 1114.6/17$
 Left In: -15.016 ± 1.380 $\chi^2/\text{NDF}: 50.1/1$

Left: -21.723 ± 0.910 $\chi^2/\text{NDF}: 124.5/4$
 Right: 34.055 ± 0.455 $\chi^2/\text{NDF}: 1756.4/33$
 In: 26.679 ± 0.593 $\chi^2/\text{NDF}: 1793.1/17$
 Out: 19.565 ± 0.559 $\chi^2/\text{NDF}: 3015.6/20$
 All: 22.916 ± 0.407 $\chi^2/\text{NDF}: 4884.9/38$

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.265 $\pm$ 0.701 χ^2 /NDF: 152.0/15

Left Out: 9.446 $\pm$ 1.048 χ^2 /NDF: 7.2/2

Right Out: 2.651 $\pm$ 0.715 χ^2 /NDF: 107.2/17

Left In: 5.396 $\pm$ 1.395 χ^2 /NDF: 13.4/1

Left: 7.986 $\pm$ 0.838 χ^2 /NDF: 25.9/4

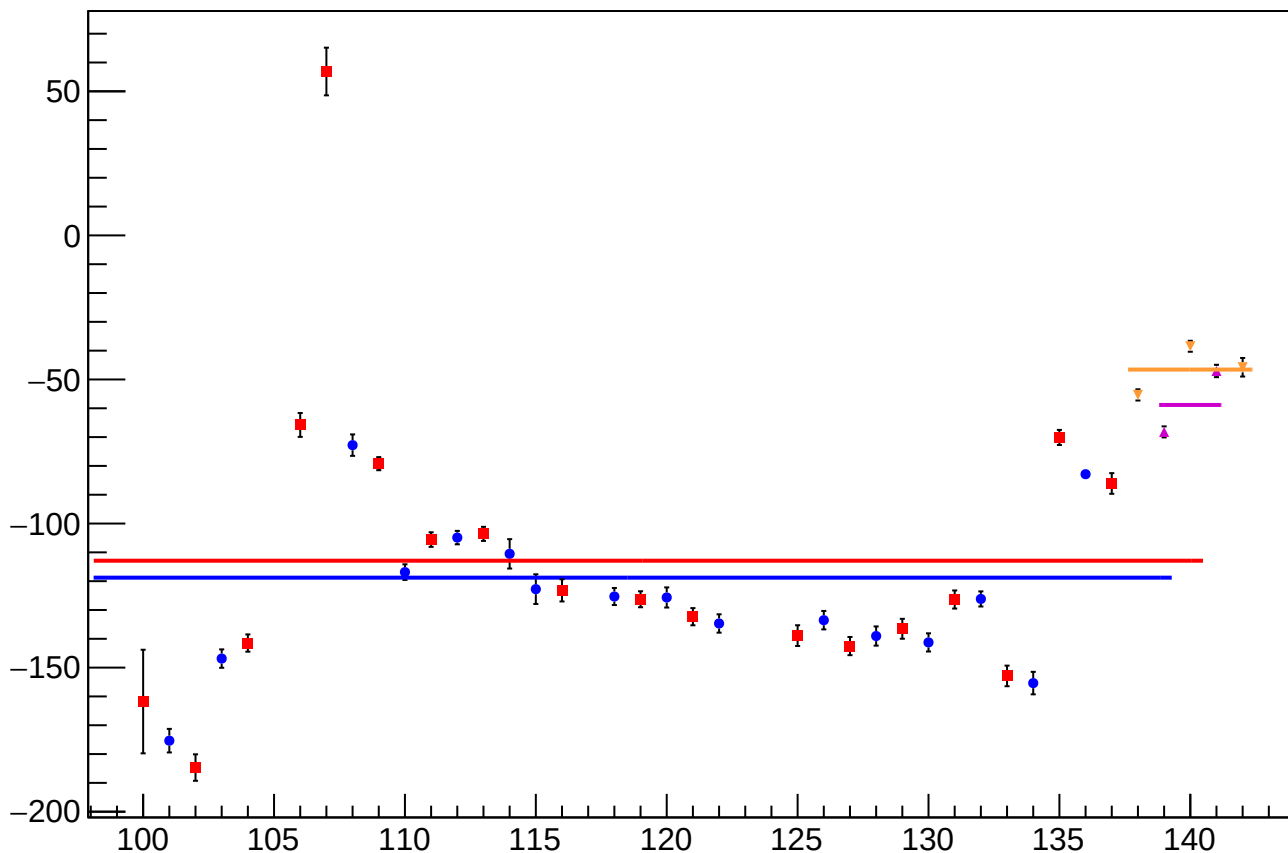
Right: 2.454 $\pm$ 0.501 χ^2 /NDF: 259.4/33

In: 2.897 $\pm$ 0.627 χ^2 /NDF: 169.4/17

Out: 4.811 $\pm$ 0.591 χ^2 /NDF: 143.1/20

All: 3.911 $\pm$ 0.430 χ^2 /NDF: 317.4/38

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -118.778 ± 0.757 $\chi^2/\text{NDF}: 1119.5/15$

Left Out: -46.567 ± 1.255 $\chi^2/\text{NDF}: 38.4/2$

Right Out: -112.899 ± 0.761 $\chi^2/\text{NDF}: 1862.9/17$

Left In: -58.846 ± 1.428 $\chi^2/\text{NDF}: 54.1/1$

Left: -51.915 ± 0.943 $\chi^2/\text{NDF}: 134.2/4$

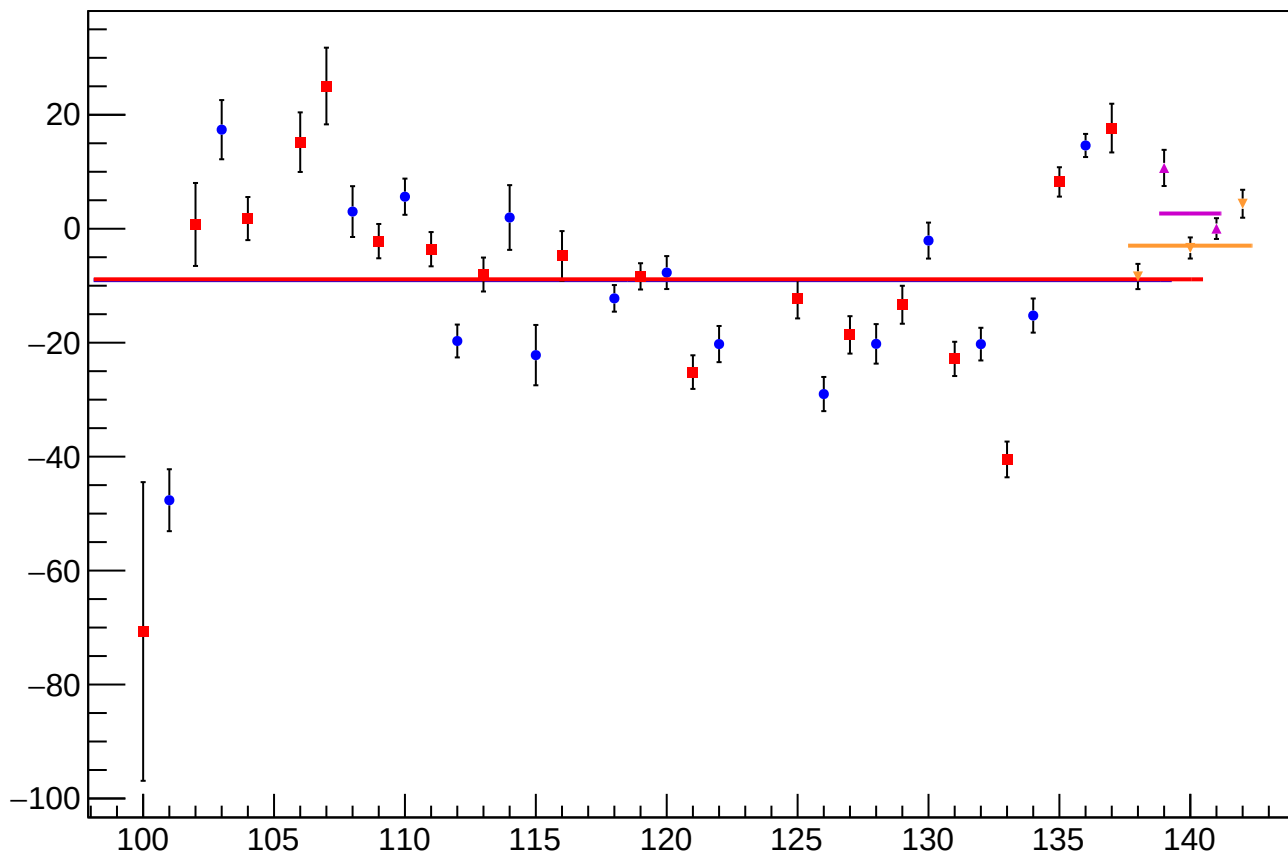
Right: -115.855 ± 0.537 $\chi^2/\text{NDF}: 3012.4/33$

In: -105.636 ± 0.669 $\chi^2/\text{NDF}: 2548.7/17$

Out: -95.058 ± 0.651 $\chi^2/\text{NDF}: 3945.0/20$

All: -100.202 ± 0.466 $\chi^2/\text{NDF}: 6622.2/38$

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -9.022 ± 0.796 χ^2/NDF : 358.0/15

Left Out: -2.970 ± 1.230 χ^2/NDF : 15.0/2

Right Out: -8.878 ± 0.810 χ^2/NDF : 318.7/17

Left In: 2.673 ± 1.582 χ^2/NDF : 8.5/1

Left: -0.844 ± 0.971 χ^2/NDF : 31.4/4

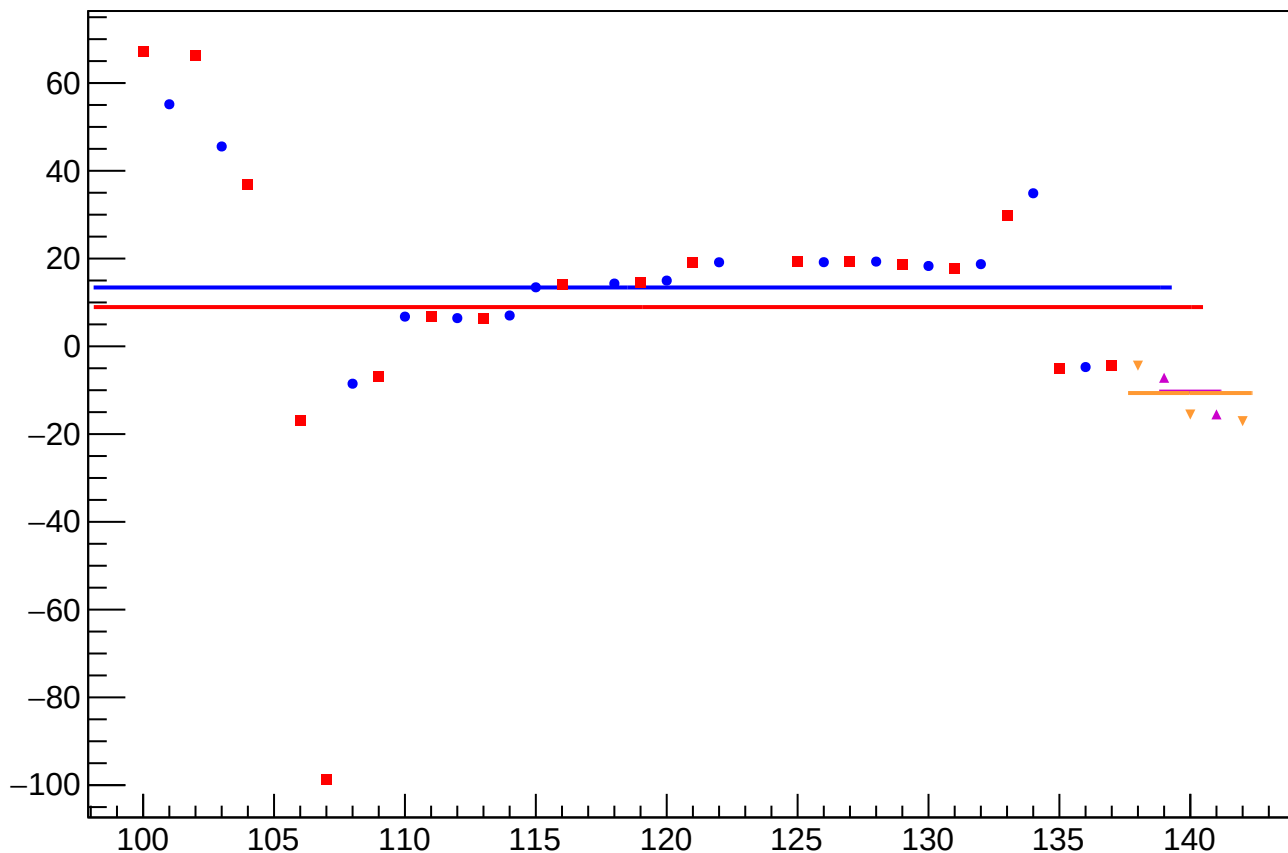
Right: -8.951 ± 0.568 χ^2/NDF : 676.8/33

In: -6.660 ± 0.711 χ^2/NDF : 410.1/17

Out: -7.089 ± 0.677 χ^2/NDF : 349.8/20

All: -6.885 ± 0.490 χ^2/NDF : 760.1/38

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 13.412+/-0.045 χ^2/NDF : 183707.4/15

Left Out: -10.644+/-0.052 χ^2/NDF : 12366.0/2

Right Out: 8.943+/-0.047 χ^2/NDF : 291126.5/17

Left In: -10.319+/-0.054 χ^2/NDF : 5660.3/1

Left: -10.486+/-0.037 χ^2/NDF : 18045.2/4

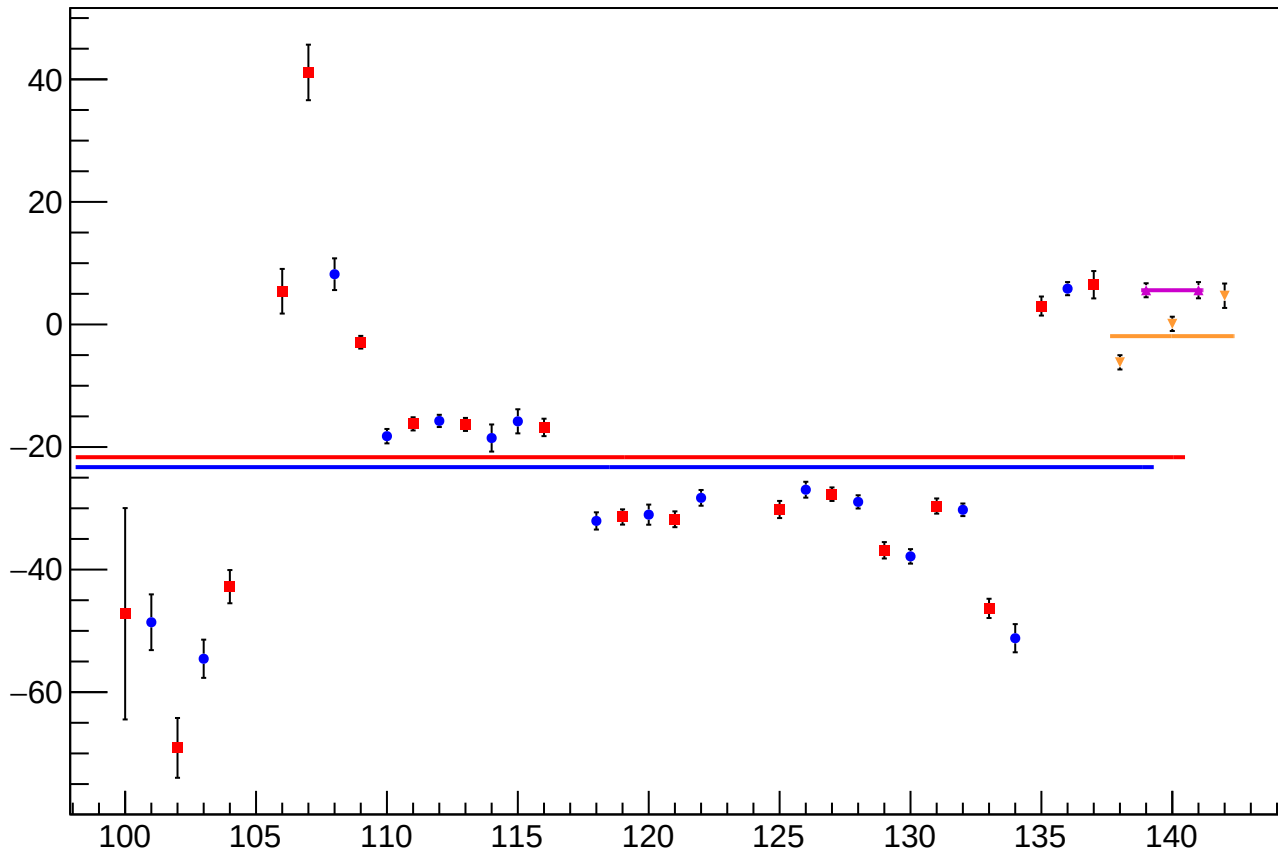
Right: 11.280+/-0.033 χ^2/NDF : 479481.6/33

In: 3.573+/-0.035 χ^2/NDF : 303235.3/17

Out: 0.071+/-0.035 χ^2/NDF : 380836.9/20

All: 1.843+/-0.025 χ^2/NDF : 689120.1/38

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.281 ± 0.350 χ^2/NDF : 1567.9/15

Left Out: -1.906 ± 0.762 χ^2/NDF : 27.3/2

Right Out: -21.660 ± 0.347 χ^2/NDF : 1813.6/17

Left In: 5.586 ± 0.865 χ^2/NDF : 0.0/1

Left: 1.367 ± 0.572 χ^2/NDF : 69.6/4

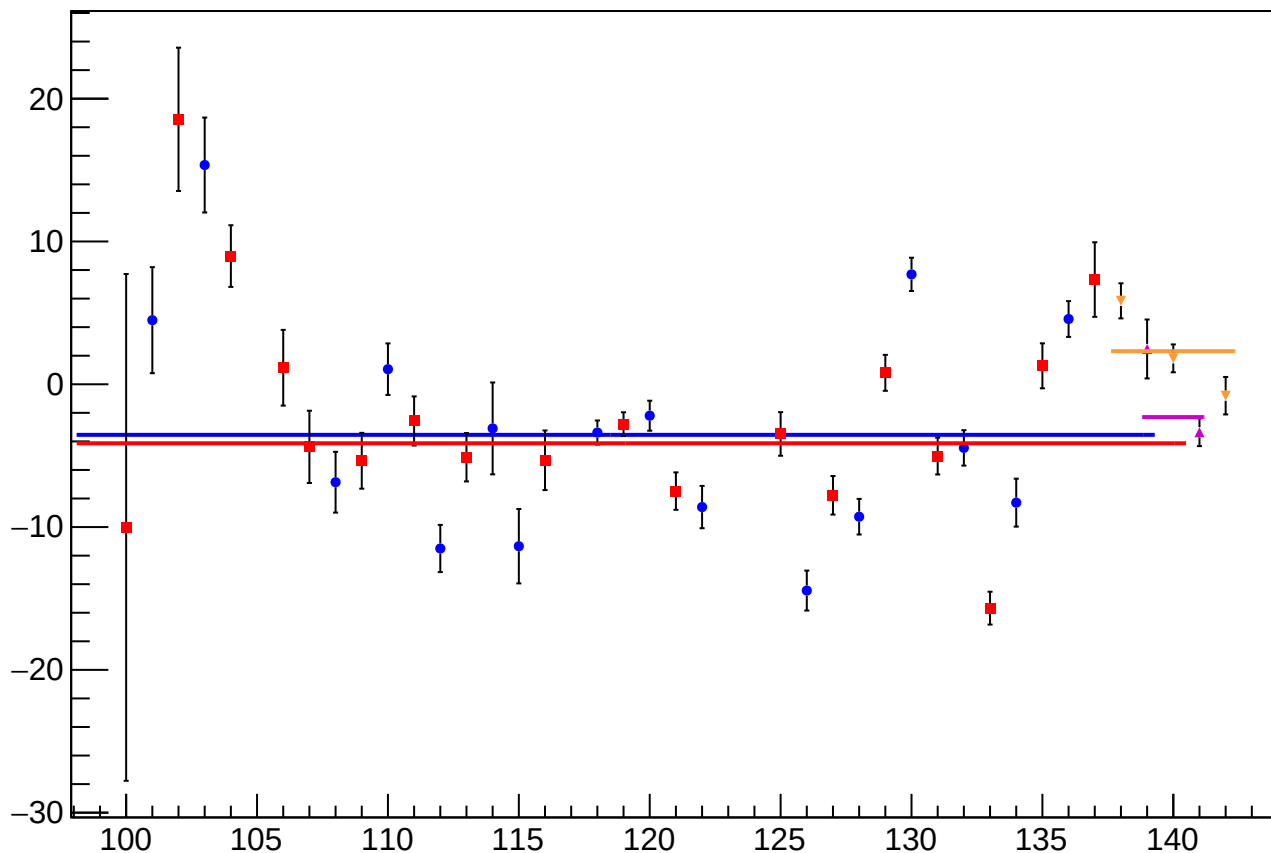
Right: -22.463 ± 0.247 χ^2/NDF : 3392.3/33

In: -19.215 ± 0.325 χ^2/NDF : 2523.9/17

Out: -18.263 ± 0.316 χ^2/NDF : 2397.2/20

All: -18.726 ± 0.227 χ^2/NDF : 4925.5/38

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.541 ± 0.363 χ^2/NDF : 316.8/15

Left Out: 2.317 ± 0.661 χ^2/NDF : 14.1/2

Right Out: -4.132 ± 0.371 χ^2/NDF : 227.4/17

Left In: -2.298 ± 0.880 χ^2/NDF : 6.5/1

Left: 0.654 ± 0.528 χ^2/NDF : 38.3/4

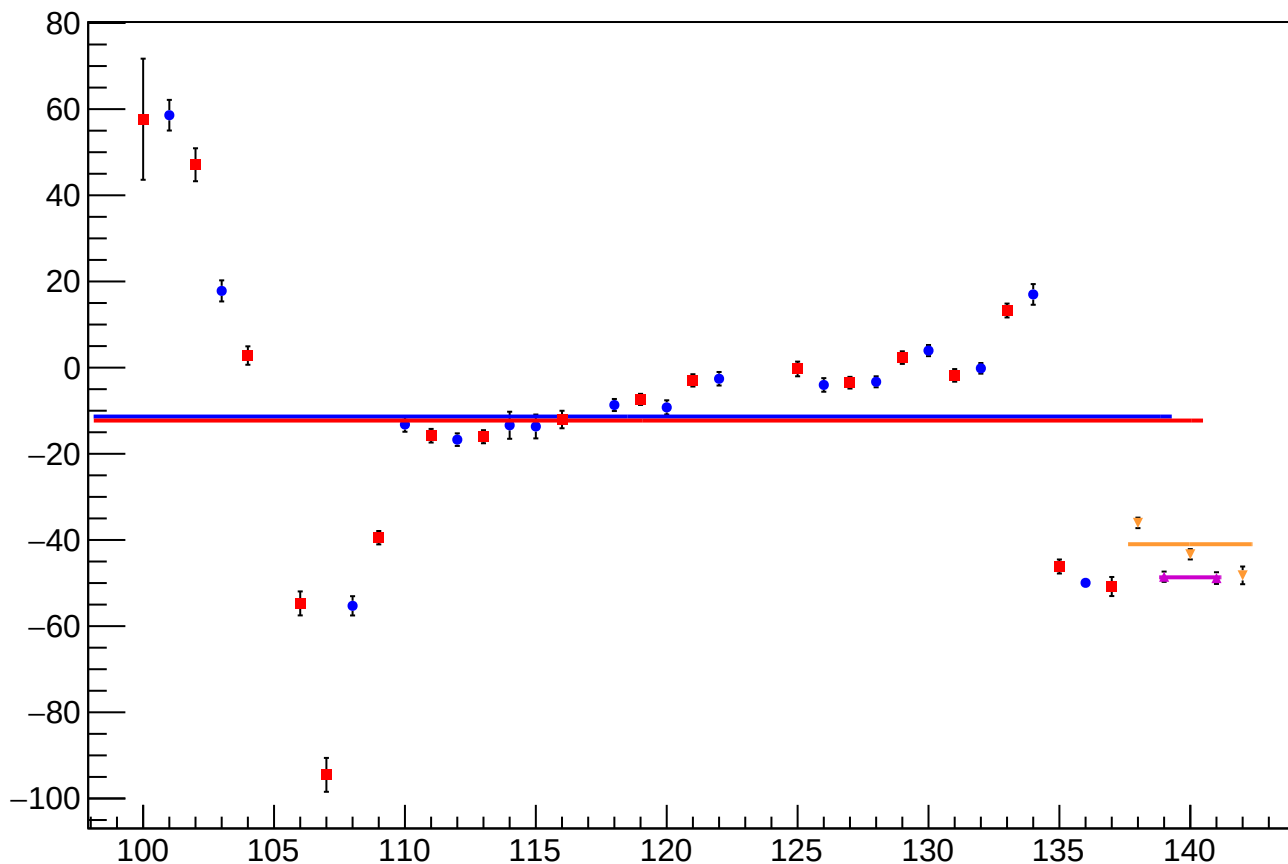
Right: -3.830 ± 0.259 χ^2/NDF : 545.5/33

In: -3.361 ± 0.335 χ^2/NDF : 325.0/17

Out: -2.588 ± 0.323 χ^2/NDF : 314.1/20

All: -2.960 ± 0.233 χ^2/NDF : 641.8/38

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -11.355 ± 0.406 χ^2/NDF : 2661.6/15

Left Out: -40.985 ± 0.789 χ^2/NDF : 32.7/2

Right Out: -12.281 ± 0.413 χ^2/NDF : 2590.4/17

Left In: -48.669 ± 0.896 χ^2/NDF : 0.0/1

Left: -44.343 ± 0.592 χ^2/NDF : 74.2/4

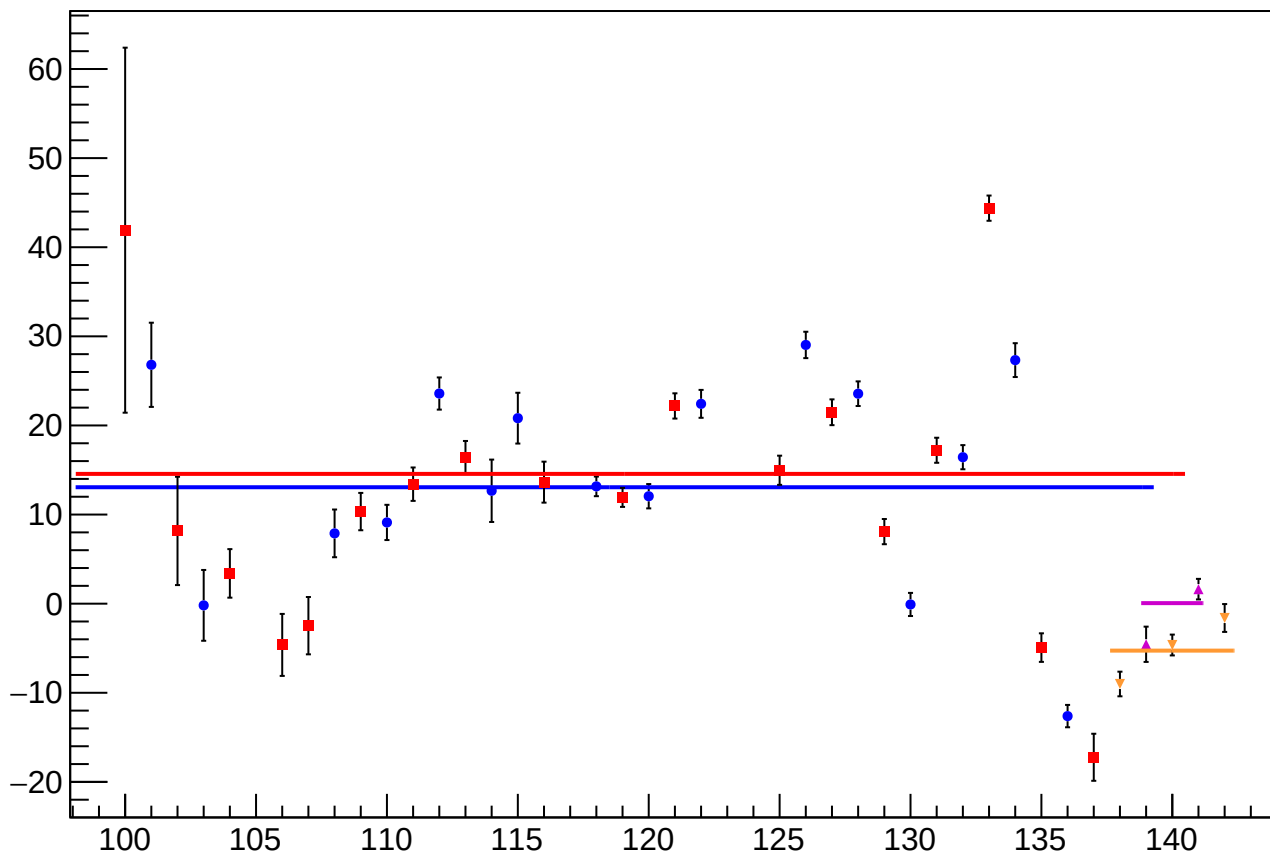
Right: -11.809 ± 0.289 χ^2/NDF : 5254.6/33

In: -17.705 ± 0.370 χ^2/NDF : 4101.5/17

Out: -18.455 ± 0.366 χ^2/NDF : 3661.4/20

All: -18.084 ± 0.260 χ^2/NDF : 7764.9/38

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.066 $\pm$ 0.415 χ^2 /NDF: 863.4/15

Left Out: -5.268 $\pm$ 0.775 χ^2 /NDF:13.1/2

Right Out: 14.563 $\pm$ 0.423 χ^2 /NDF: 903.1/17

Left In: 0.061 $\pm$ 0.997 χ^2 /NDF:7.3/1

Left: -3.261 $\pm$ 0.612 χ^2 /NDF: 38.2/4

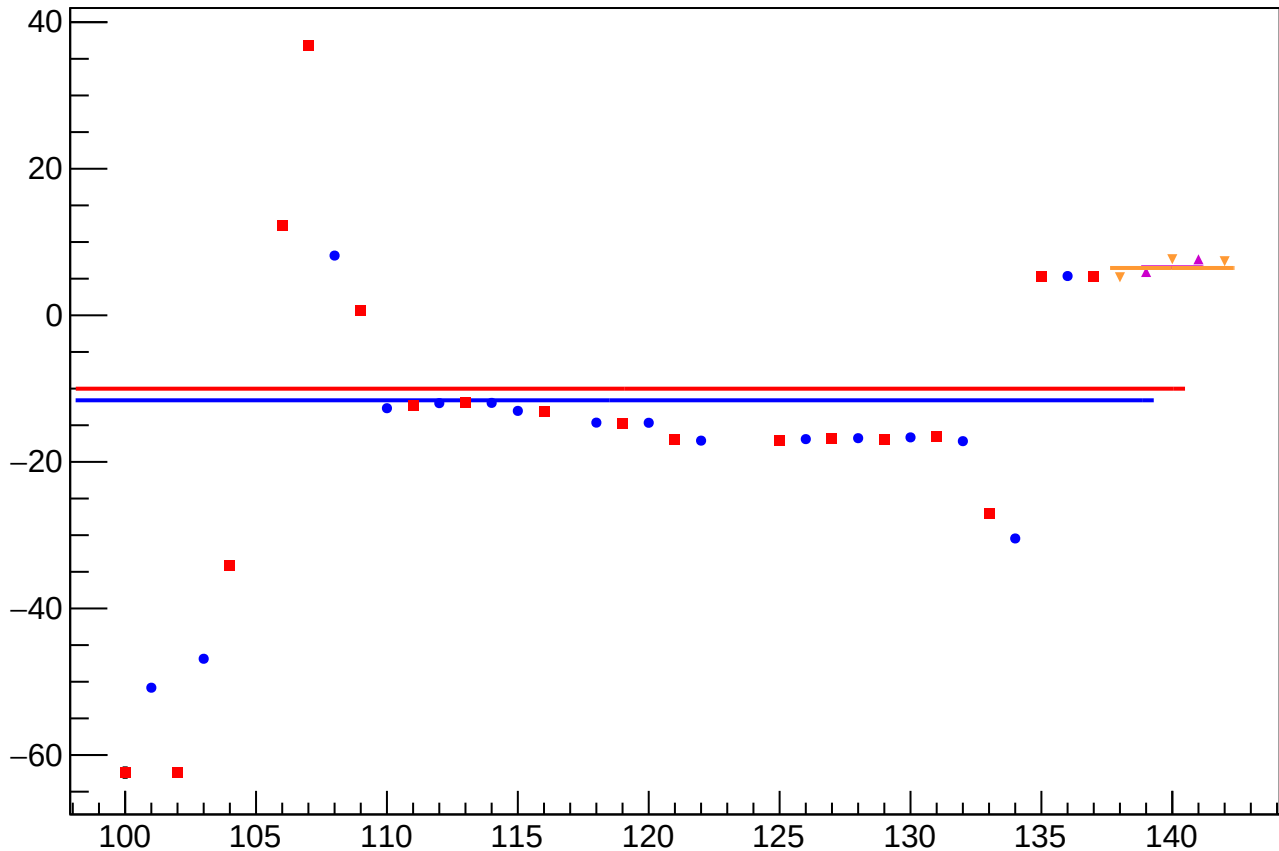
Right: 13.801 $\pm$ 0.296 χ^2 /NDF: 1772.9/33

In: 11.147 $\pm$ 0.383 χ^2 /NDF:1015.8/17

Out: 10.020 $\pm$ 0.371 χ^2 /NDF:1421.0/20

All: 10.565 $\pm$ 0.266 χ^2 /NDF: 2441.3/38

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -11.596 ± 0.026 $\chi^2/\text{NDF}: 360523.2/15$

Left Out: 6.460 ± 0.033 $\chi^2/\text{NDF}: 1325.8/2$

Right Out: -10.012 ± 0.027 $\chi^2/\text{NDF}: 396286.9/17$

Left In: 6.558 ± 0.034 $\chi^2/\text{NDF}: 612.8/1$

Left: 6.507 ± 0.024 $\chi^2/\text{NDF}: 1943.0/4$

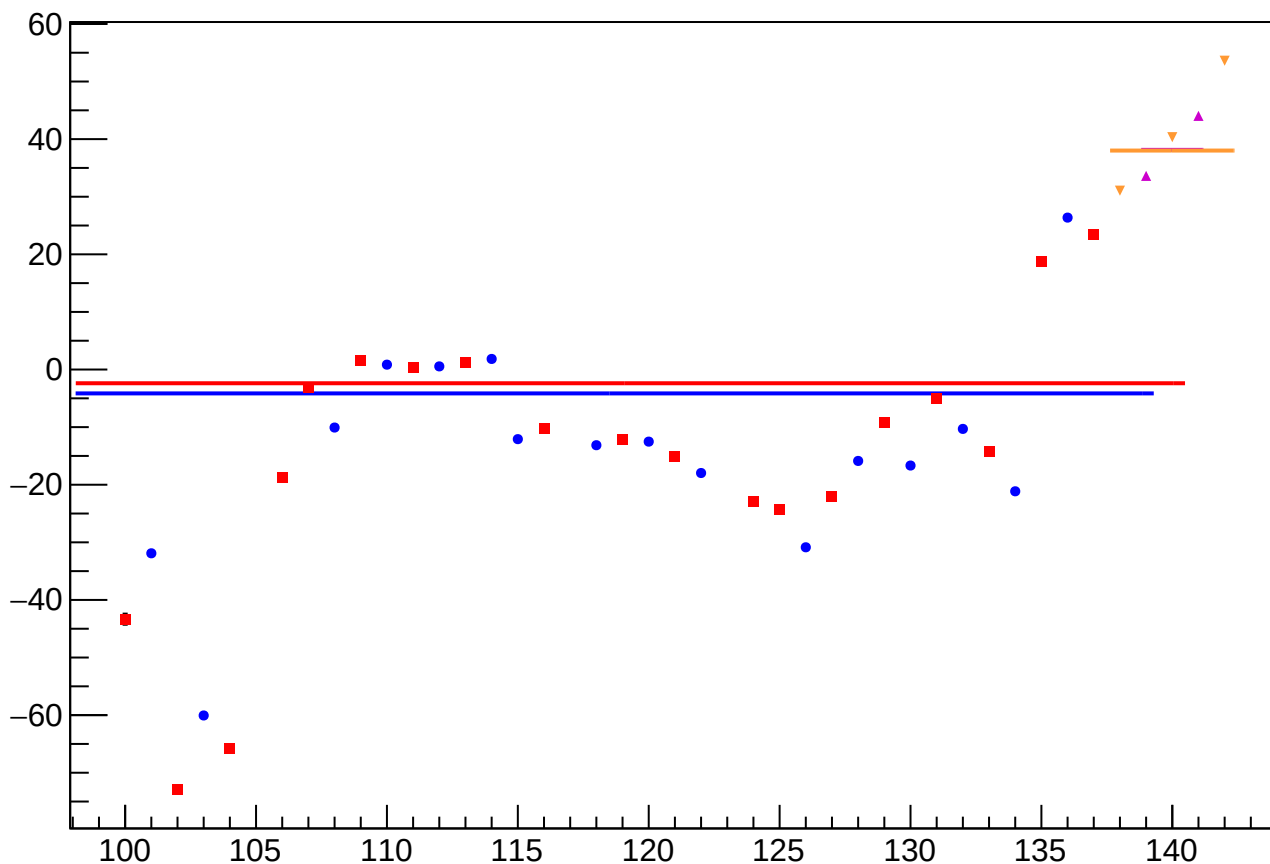
Right: -10.837 ± 0.019 $\chi^2/\text{NDF}: 758546.1/33$

In: -4.730 ± 0.021 $\chi^2/\text{NDF}: 541192.0/17$

Out: -3.219 ± 0.021 $\chi^2/\text{NDF}: 546155.6/20$

All: -3.985 ± 0.015 $\chi^2/\text{NDF}: 1089962.7/38$

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.145 $\pm$ 0.055 χ^2 /NDF: 75262.7/15

Left Out: 38.016 $\pm$ 0.137 χ^2 /NDF:3216.0/2

Right Out: -2.382 $\pm$ 0.046 χ^2 /NDF: 80749.3/18

Left In: 38.135 $\pm$ 0.148 χ^2 /NDF:1214.8/1

Left: 38.071 $\pm$ 0.101 χ^2 /NDF: 4431.1/4

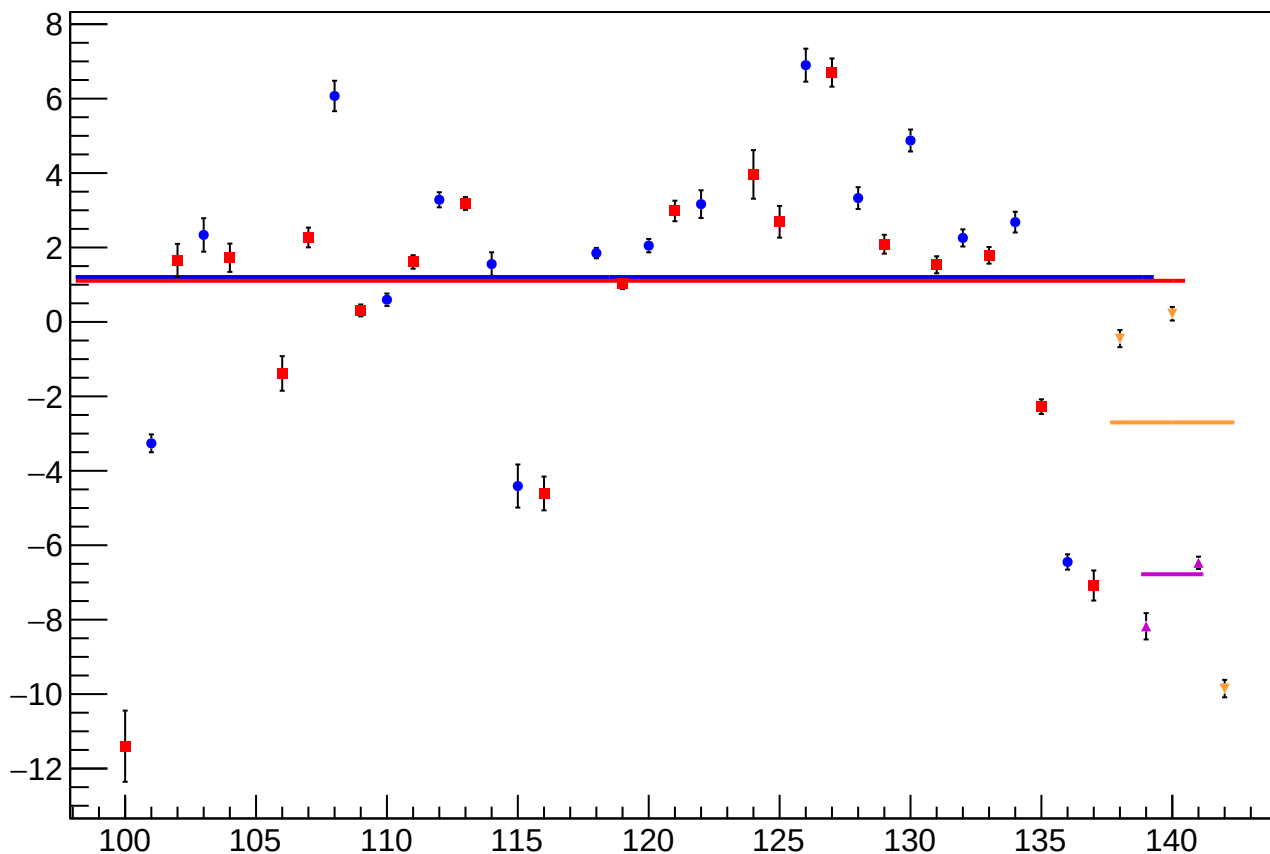
Right: -3.115 $\pm$ 0.035 χ^2 /NDF: 156619.4/34

In: 0.926 $\pm$ 0.051 χ^2 /NDF:148185.4/17

Out: 1.711 $\pm$ 0.044 χ^2 /NDF:161642.1/21

All: 1.380 $\pm$ 0.033 χ^2 /NDF: 309963.1/39

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.206 ± 0.060 $\chi^2/\text{NDF}: 2584.4/15$

Left Out: -2.700 ± 0.122 $\chi^2/\text{NDF}: 1277.3/2$

Right Out: 1.106 ± 0.057 $\chi^2/\text{NDF}: 1587.2/18$

Left In: -6.779 ± 0.150 $\chi^2/\text{NDF}: 19.1/1$

Left: -4.327 ± 0.095 $\chi^2/\text{NDF}: 1740.3/4$

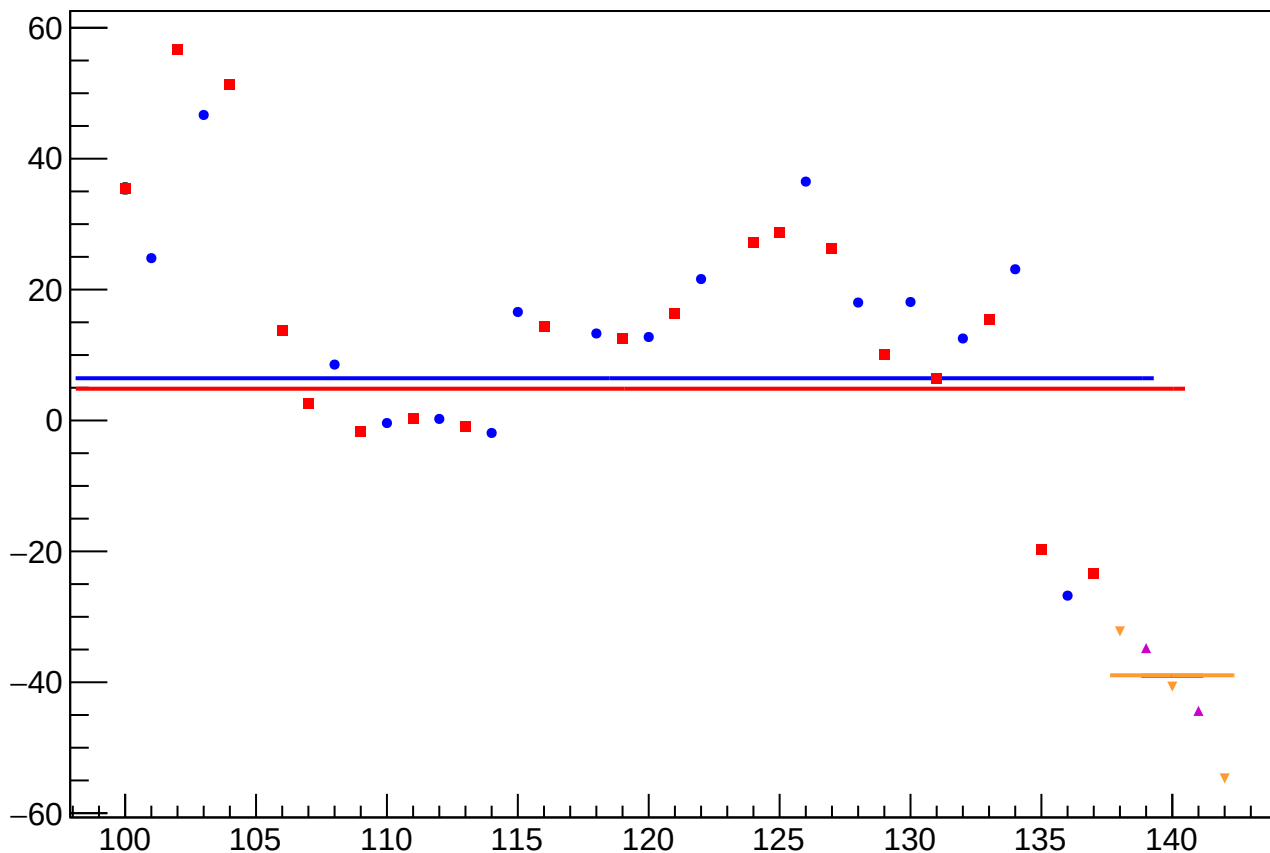
Right: 1.153 ± 0.042 $\chi^2/\text{NDF}: 4173.1/34$

In: 0.092 ± 0.056 $\chi^2/\text{NDF}: 5039.1/17$

Out: 0.422 ± 0.052 $\chi^2/\text{NDF}: 3659.2/21$

All: 0.270 ± 0.038 $\chi^2/\text{NDF}: 8717.0/39$

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.453 ± 0.065 $\chi^2/\text{NDF}: 70671.1/15$

Left Out: -38.936 ± 0.142 $\chi^2/\text{NDF}: 2908.0/2$

Right Out: 4.854 ± 0.059 $\chi^2/\text{NDF}: 75267.0/18$

Left In: -39.009 ± 0.153 $\chi^2/\text{NDF}: 965.6/1$

Left: -38.970 ± 0.104 $\chi^2/\text{NDF}: 3873.7/4$

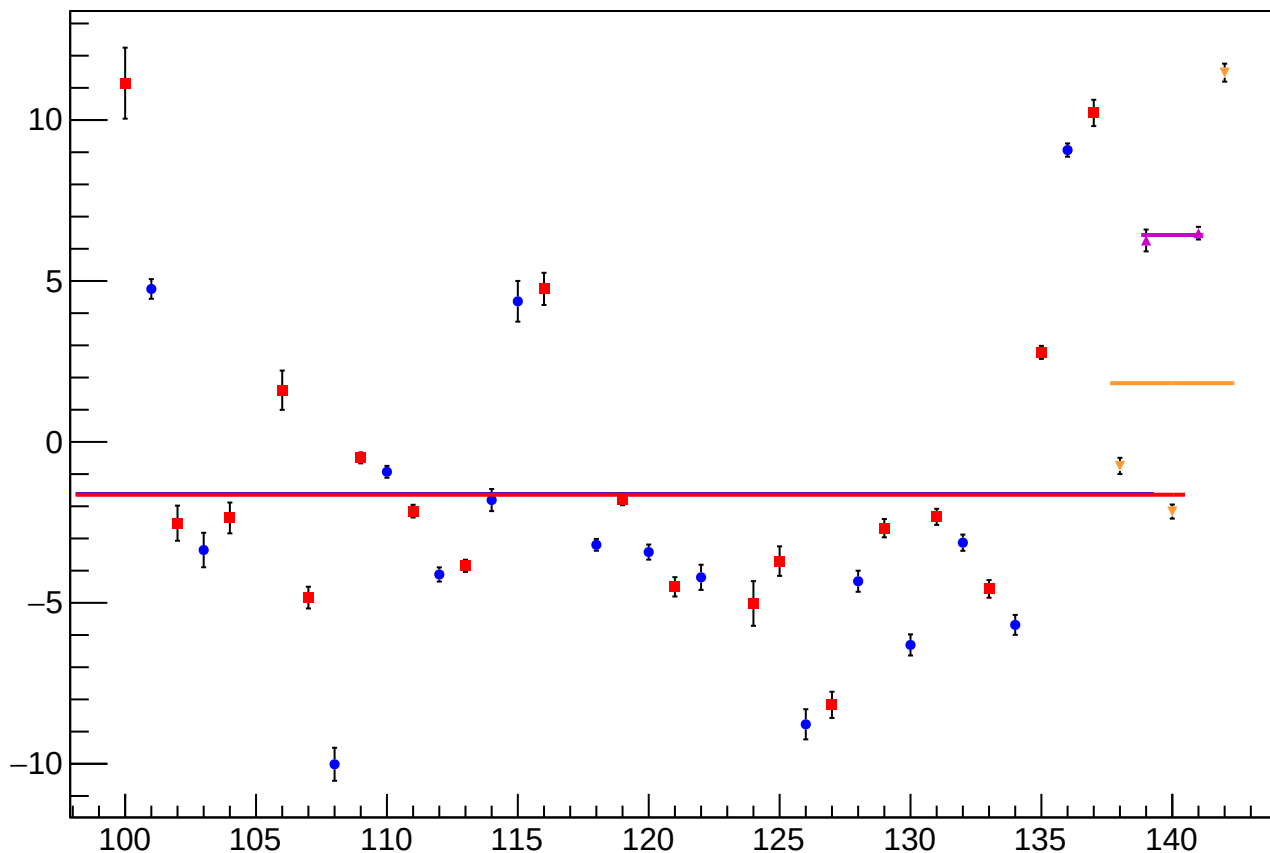
Right: 5.576 ± 0.044 $\chi^2/\text{NDF}: 146268.1/34$

In: -0.513 ± 0.060 $\chi^2/\text{NDF}: 146107.9/17$

Out: -1.589 ± 0.055 $\chi^2/\text{NDF}: 158798.3/21$

All: -1.101 ± 0.040 $\chi^2/\text{NDF}: 305082.0/39$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.622 ± 0.070 χ^2/NDF : 4525.3/15

Left Out: 1.824 ± 0.142 χ^2/NDF : 1624.2/2

Right Out: -1.640 ± 0.065 χ^2/NDF : 2462.1/18

Left In: 6.429 ± 0.170 χ^2/NDF : 0.3/1

Left: 3.724 ± 0.109 χ^2/NDF : 2055.5/4

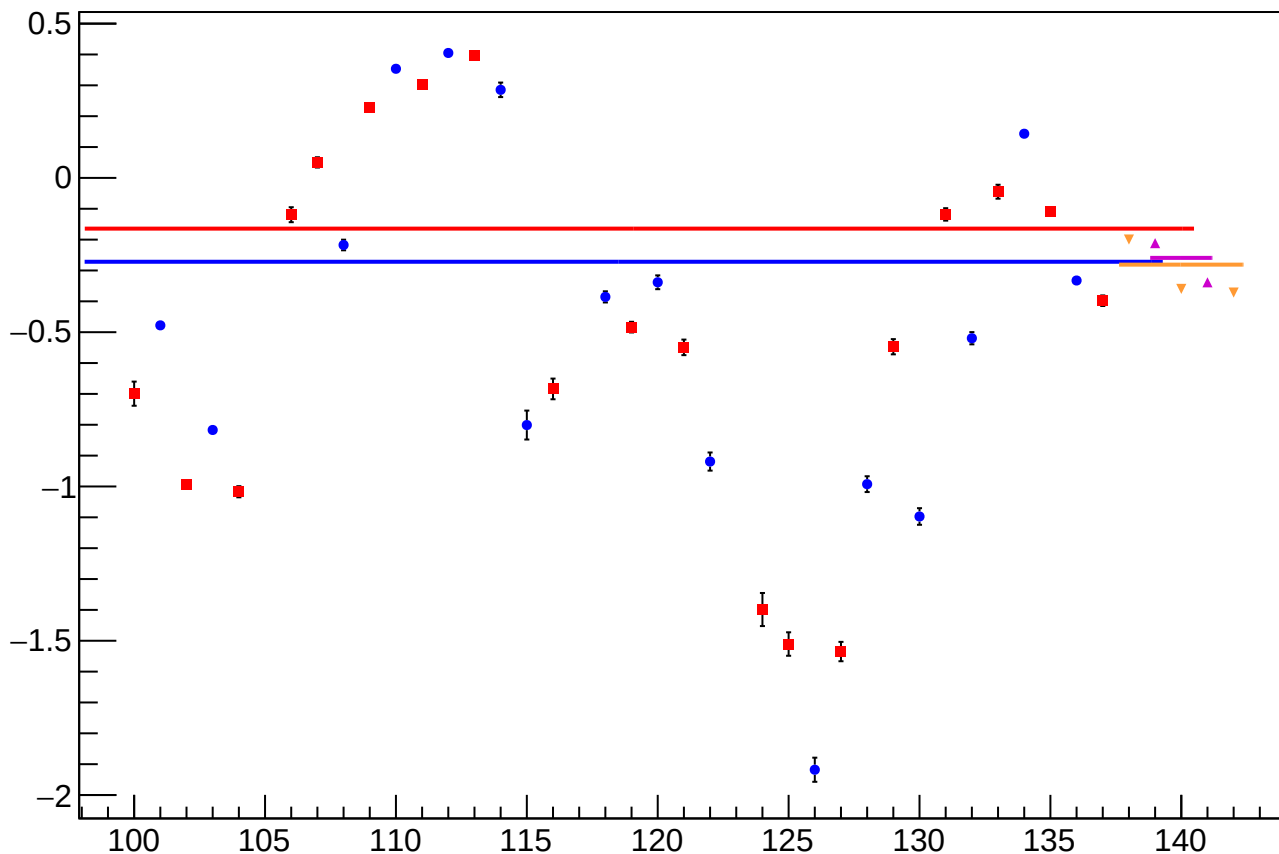
Right: -1.632 ± 0.047 χ^2/NDF : 6987.4/34

In: -0.466 ± 0.064 χ^2/NDF : 6446.3/17

Out: -1.050 ± 0.059 χ^2/NDF : 4576.9/21

All: -0.785 ± 0.043 χ^2/NDF : 11068.1/39

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.272 ± 0.004 $\chi^2/\text{NDF}: 12048.2/15$

Left Out: -0.281 ± 0.006 $\chi^2/\text{NDF}: 199.4/2$

Right Out: -0.164 ± 0.004 $\chi^2/\text{NDF}: 15497.0/18$

Left In: -0.259 ± 0.006 $\chi^2/\text{NDF}: 114.2/1$

Left: -0.270 ± 0.004 $\chi^2/\text{NDF}: 320.8/4$

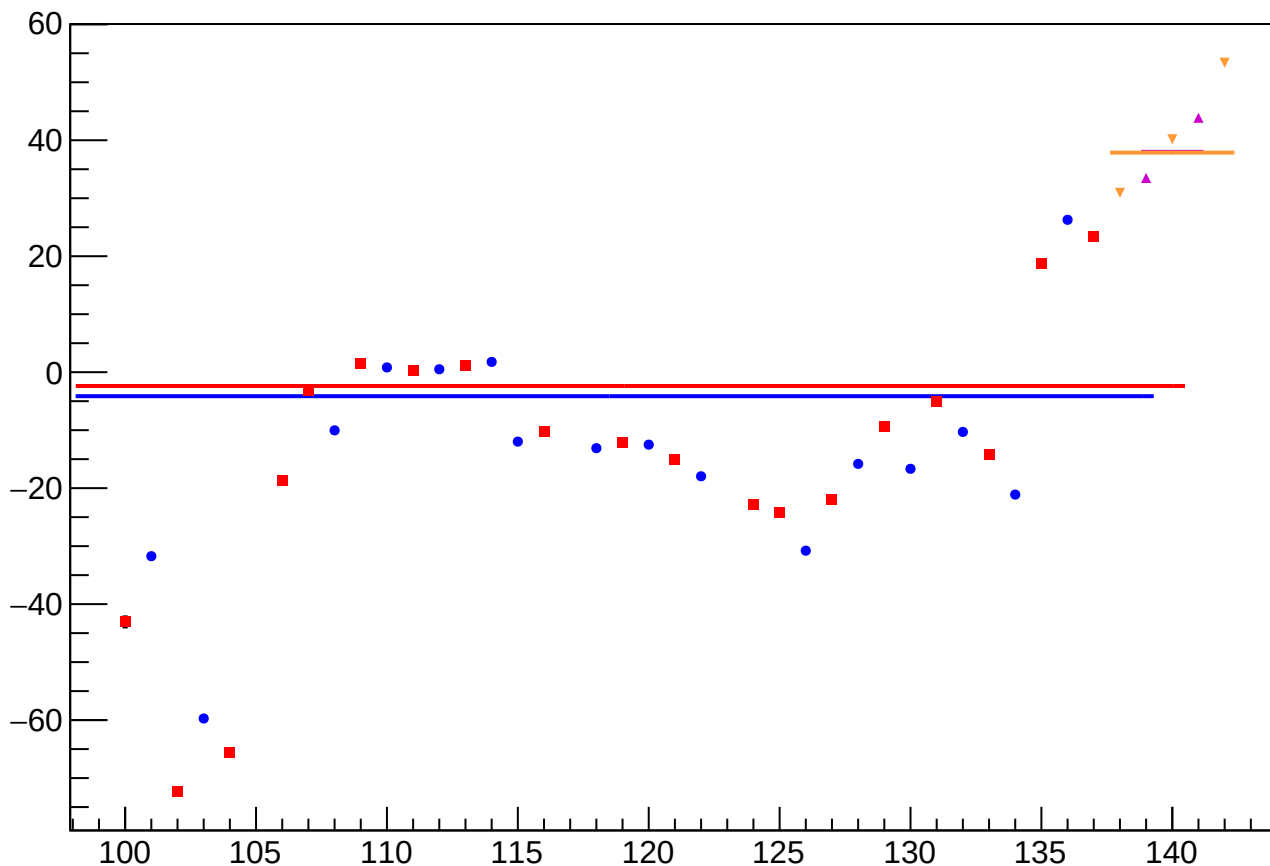
Right: -0.213 ± 0.003 $\chi^2/\text{NDF}: 27909.3/34$

In: -0.267 ± 0.003 $\chi^2/\text{NDF}: 12165.5/17$

Out: -0.199 ± 0.003 $\chi^2/\text{NDF}: 15980.0/21$

All: -0.231 ± 0.002 $\chi^2/\text{NDF}: 28361.5/39$

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.139 ± 0.054 $\chi^2/\text{NDF}: 75240.1/15$

Left Out: 37.865 ± 0.137 $\chi^2/\text{NDF}: 3200.3/2$

Right Out: -2.380 ± 0.046 $\chi^2/\text{NDF}: 80668.5/18$

Left In: 37.996 ± 0.148 $\chi^2/\text{NDF}: 1215.0/1$

Left: 37.925 ± 0.100 $\chi^2/\text{NDF}: 4415.8/4$

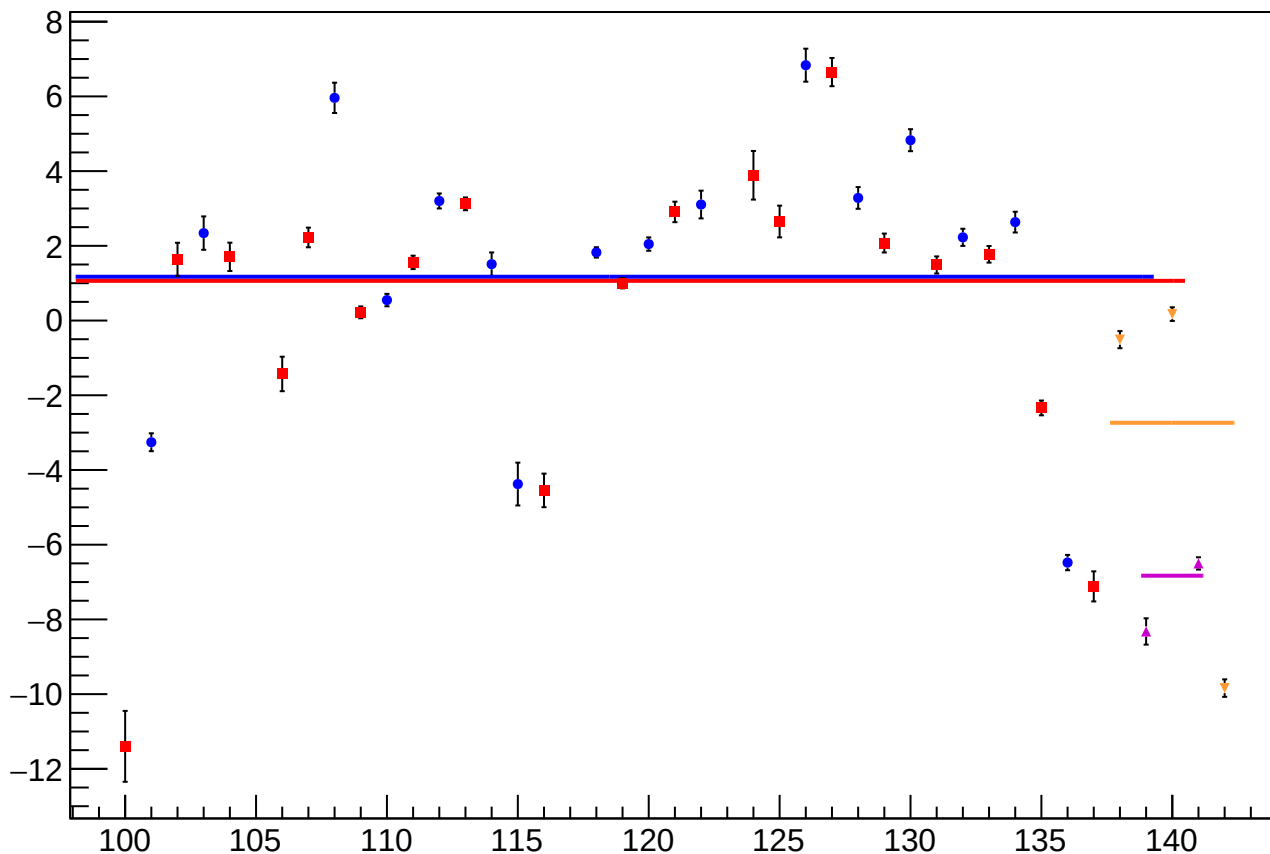
Right: -3.111 ± 0.035 $\chi^2/\text{NDF}: 156520.4/34$

In: 0.887 ± 0.051 $\chi^2/\text{NDF}: 148152.1/17$

Out: 1.674 ± 0.043 $\chi^2/\text{NDF}: 161499.9/21$

All: 1.342 ± 0.033 $\chi^2/\text{NDF}: 309790.0/39$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.172 ± 0.060 $\chi^2/\text{NDF}: 2584.5/15$

Left Out: -2.737 ± 0.122 $\chi^2/\text{NDF}: 1269.1/2$

Right Out: 1.063 ± 0.057 $\chi^2/\text{NDF}: 1596.5/18$

Left In: -6.830 ± 0.150 $\chi^2/\text{NDF}: 21.9/1$

Left: -4.369 ± 0.095 $\chi^2/\text{NDF}: 1740.7/4$

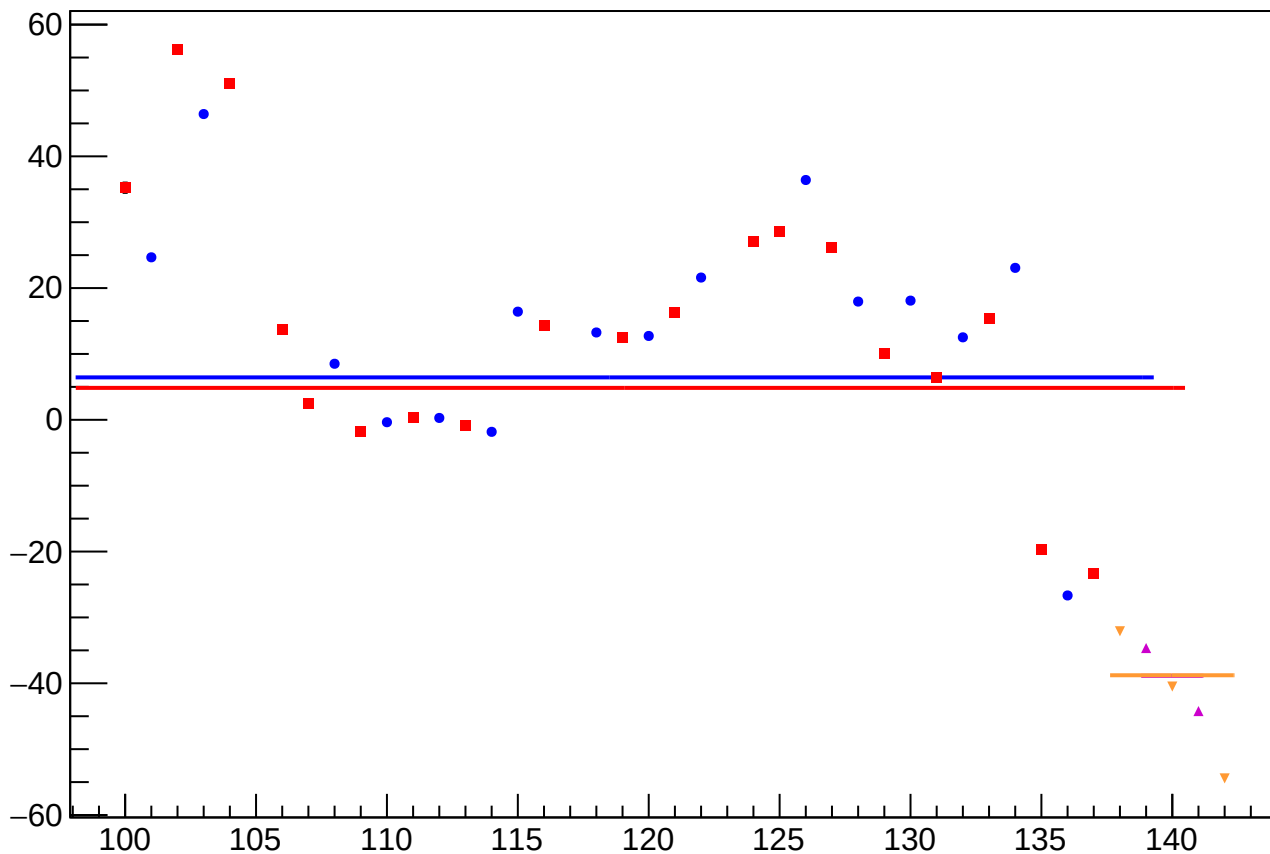
Right: 1.115 ± 0.041 $\chi^2/\text{NDF}: 4182.7/34$

In: 0.060 ± 0.056 $\chi^2/\text{NDF}: 5068.0/17$

Out: 0.382 ± 0.052 $\chi^2/\text{NDF}: 3663.6/21$

All: 0.234 ± 0.038 $\chi^2/\text{NDF}: 8749.5/39$

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.442 ± 0.065 $\chi^2/\text{NDF}: 70630.3/15$

Left Out: -38.780 ± 0.142 $\chi^2/\text{NDF}: 2893.7/2$

Right Out: 4.848 ± 0.059 $\chi^2/\text{NDF}: 75159.9/18$

Left In: -38.865 ± 0.153 $\chi^2/\text{NDF}: 966.3/1$

Left: -38.819 ± 0.104 $\chi^2/\text{NDF}: 3860.2/4$

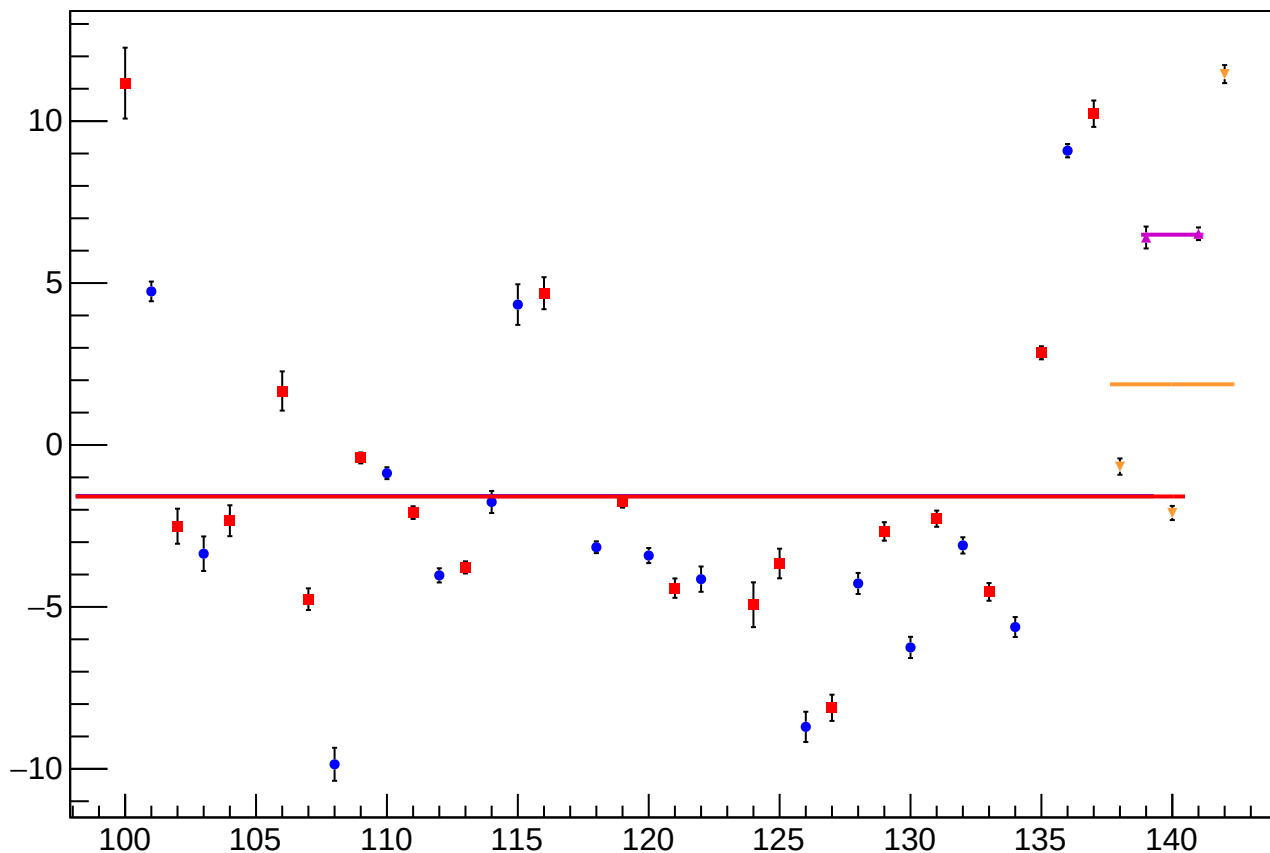
Right: 5.568 ± 0.044 $\chi^2/\text{NDF}: 146121.3/34$

In: -0.471 ± 0.060 $\chi^2/\text{NDF}: 146061.2/17$

Out: -1.544 ± 0.054 $\chi^2/\text{NDF}: 158652.3/21$

All: -1.057 ± 0.040 $\chi^2/\text{NDF}: 304890.2/39$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.580 ± 0.069 $\chi^2/\text{NDF}: 4524.3/15$

Left Out: 1.874 ± 0.142 $\chi^2/\text{NDF}: 1613.4/2$

Right Out: -1.589 ± 0.064 $\chi^2/\text{NDF}: 2472.2/18$

Left In: 6.494 ± 0.169 $\chi^2/\text{NDF}: 0.1/1$

Left: 3.779 ± 0.109 $\chi^2/\text{NDF}: 2050.0/4$

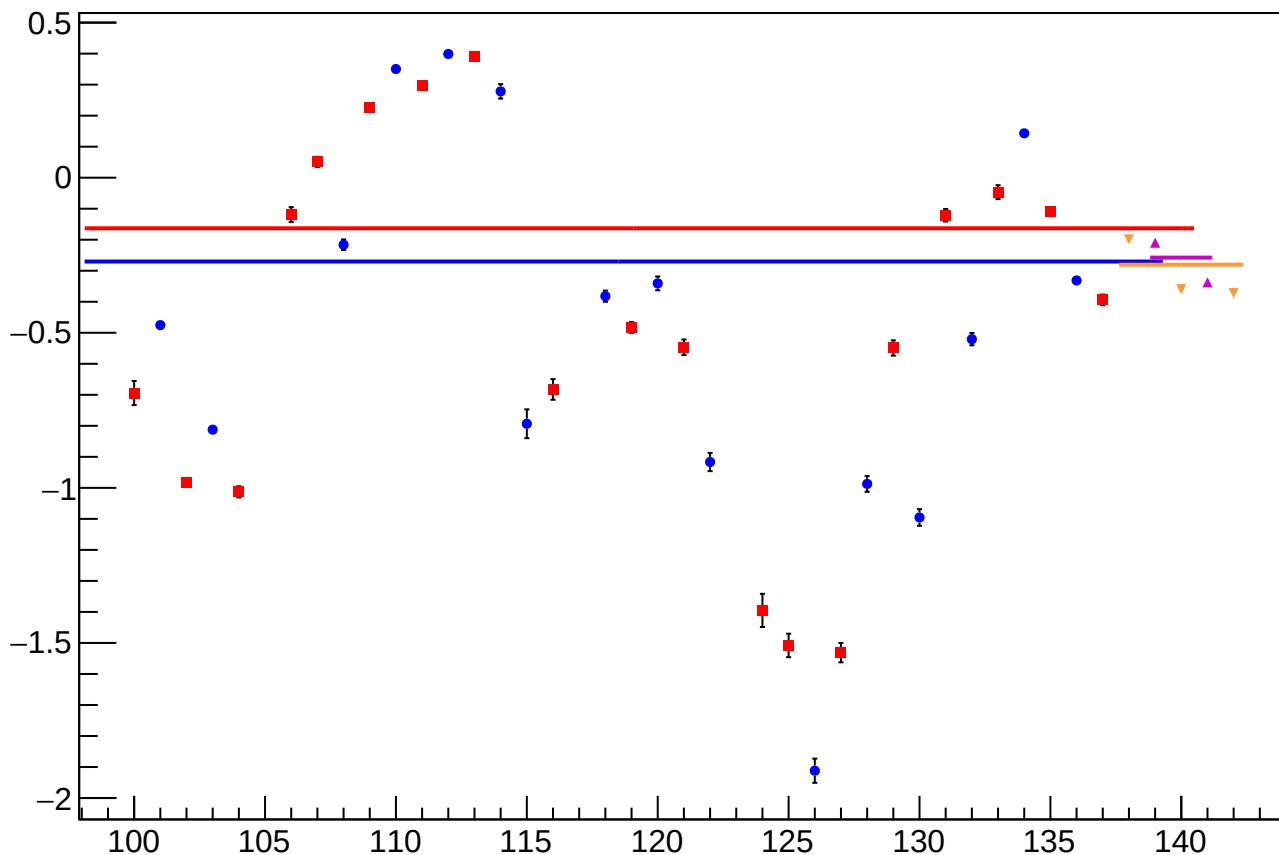
Right: -1.585 ± 0.047 $\chi^2/\text{NDF}: 6996.4/34$

In: -0.426 ± 0.064 $\chi^2/\text{NDF}: 6468.9/17$

Out: -1.001 ± 0.059 $\chi^2/\text{NDF}: 4579.1/21$

All: -0.739 ± 0.043 $\chi^2/\text{NDF}: 11092.0/39$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.270 ± 0.004 $\chi^2/\text{NDF}: 12036.3/15$

Left Out: -0.281 ± 0.006 $\chi^2/\text{NDF}: 203.0/2$

Right Out: -0.163 ± 0.004 $\chi^2/\text{NDF}: 15510.0/18$

Left In: -0.258 ± 0.006 $\chi^2/\text{NDF}: 116.5/1$

Left: -0.269 ± 0.004 $\chi^2/\text{NDF}: 327.4/4$

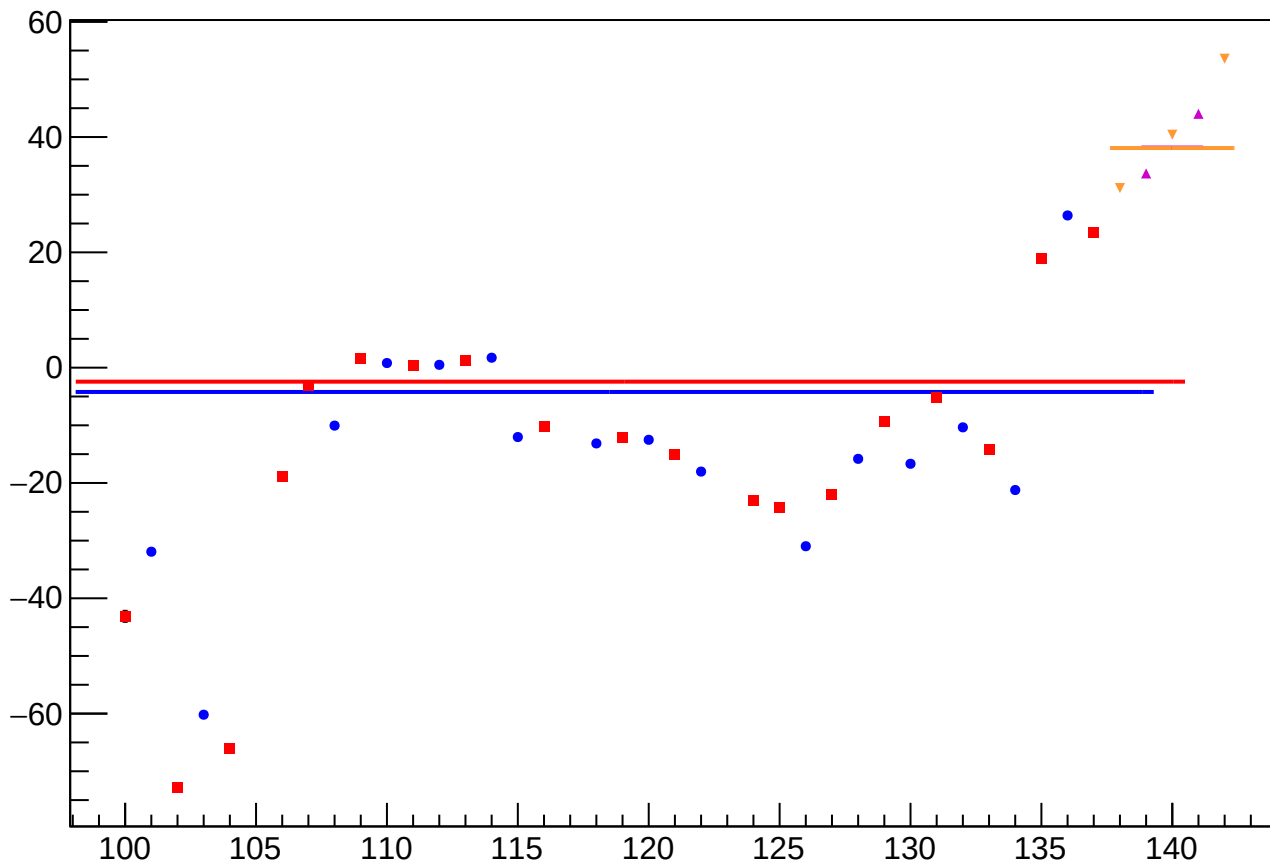
Right: -0.212 ± 0.003 $\chi^2/\text{NDF}: 27912.3/34$

In: -0.266 ± 0.003 $\chi^2/\text{NDF}: 12156.0/17$

Out: -0.198 ± 0.003 $\chi^2/\text{NDF}: 16002.0/21$

All: -0.230 ± 0.002 $\chi^2/\text{NDF}: 28373.4/39$

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.214+/-0.055 χ^2/NDF : 75215.4/15

Left Out: 38.090+/-0.138 χ^2/NDF :3178.4/2

Right Out: -2.427+/-0.046 χ^2/NDF : 80724.5/18

Left In: 38.172+/-0.148 χ^2/NDF :1194.9/1

Left: 38.128+/-0.101 χ^2/NDF : 4373.5/4

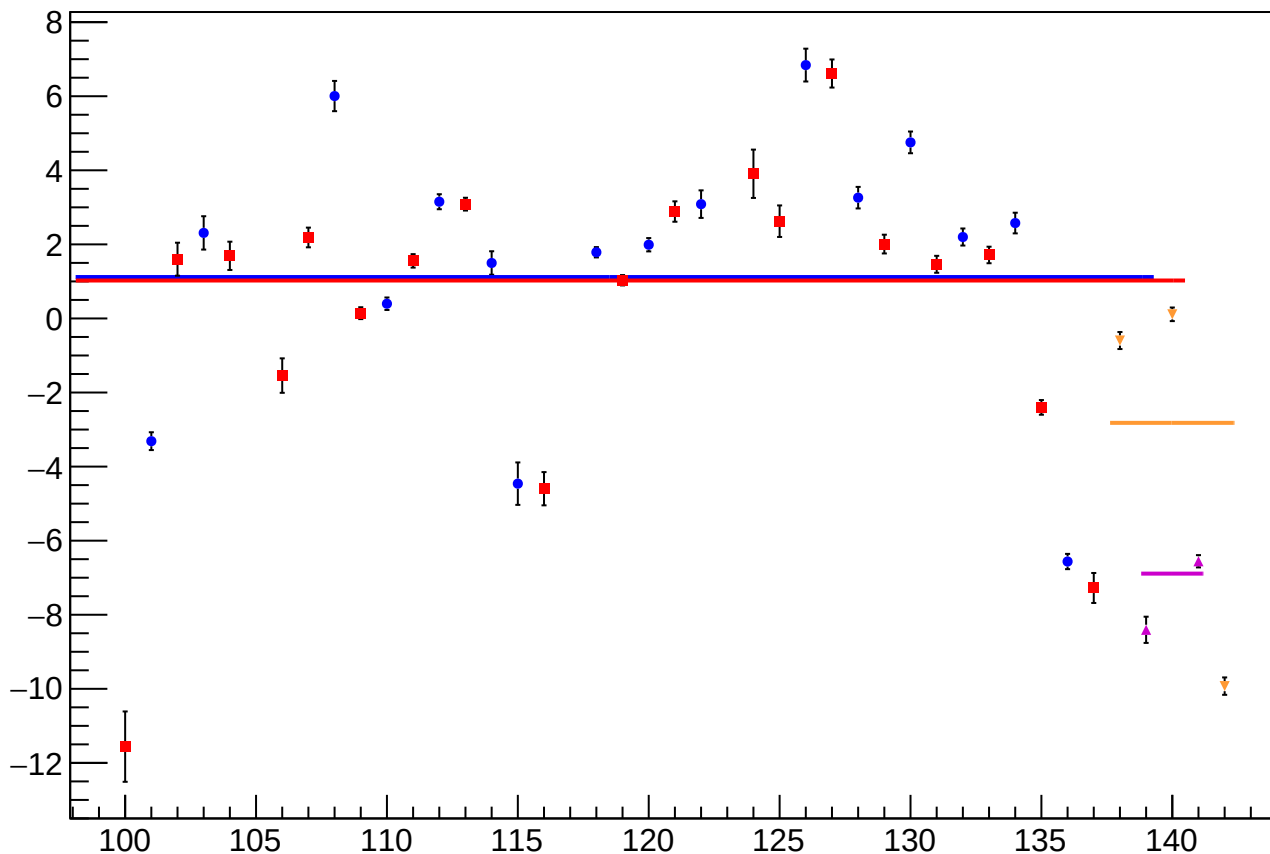
Right: -3.171+/-0.035 χ^2/NDF : 156563.0/34

In: 0.862+/-0.051 χ^2/NDF :148296.6/17

Out: 1.672+/-0.044 χ^2/NDF :161796.3/21

All: 1.331+/-0.033 χ^2/NDF : 310237.2/39

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.118 $\pm$ 0.060 χ^2 /NDF: 2591.7/15

Left Out: -2.819 $\pm$ 0.122 χ^2 /NDF:1264.6/2

Right Out: 1.025 $\pm$ 0.057 χ^2 /NDF: 1612.0/18

Left In: -6.890 $\pm$ 0.150 χ^2 /NDF:22.4/1

Left: -4.443 $\pm$ 0.095 χ^2 /NDF: 1728.0/4

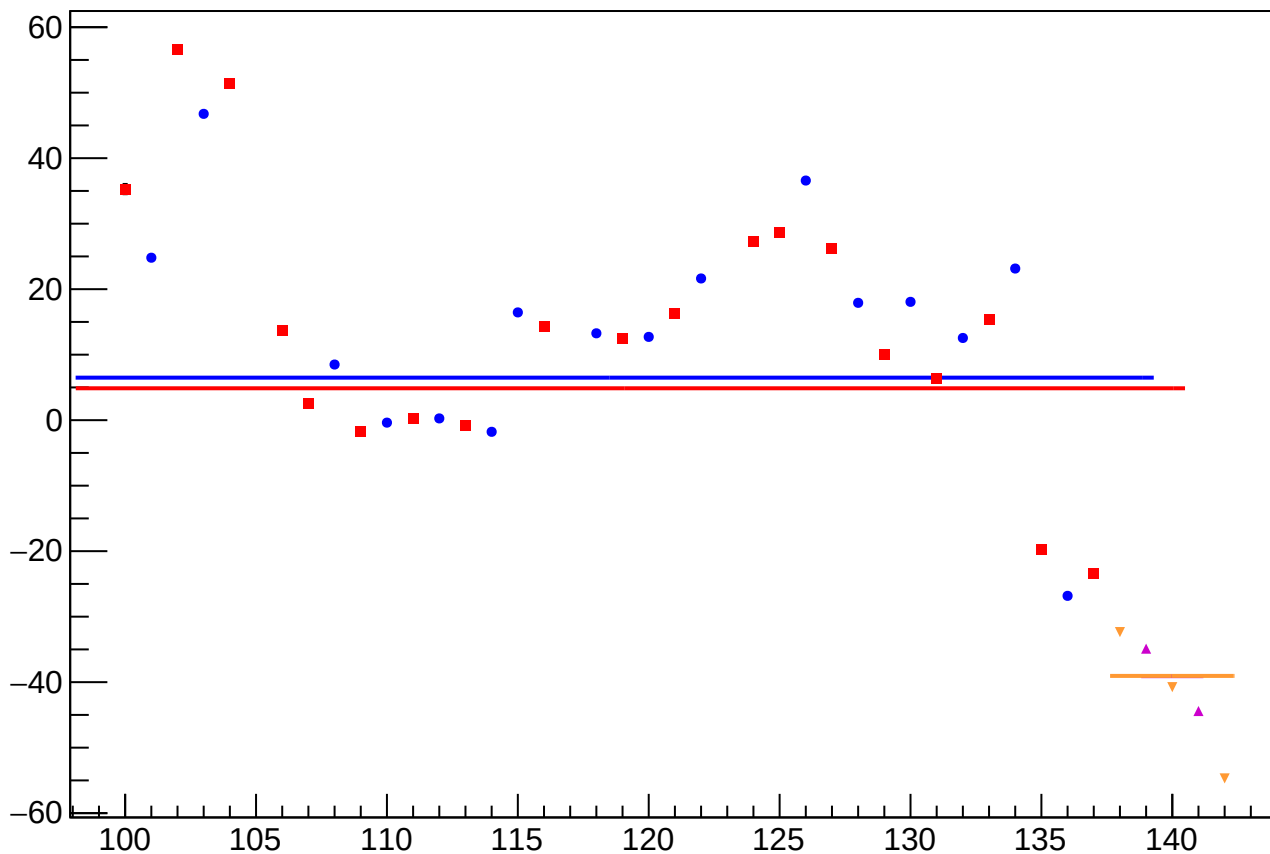
Right: 1.069 $\pm$ 0.042 χ^2 /NDF: 4205.0/34

In: 0.004 $\pm$ 0.056 χ^2 /NDF:5058.7/17

Out: 0.335 $\pm$ 0.052 χ^2 /NDF:3685.3/21

All: 0.182 $\pm$ 0.038 χ^2 /NDF: 8762.8/39

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.492 ± 0.065 $\chi^2/\text{NDF}: 70623.9/15$

Left Out: -39.046 ± 0.143 $\chi^2/\text{NDF}: 2873.2/2$

Right Out: 4.869 ± 0.059 $\chi^2/\text{NDF}: 75265.6/18$

Left In: -39.084 ± 0.154 $\chi^2/\text{NDF}: 948.7/1$

Left: -39.063 ± 0.104 $\chi^2/\text{NDF}: 3822.0/4$

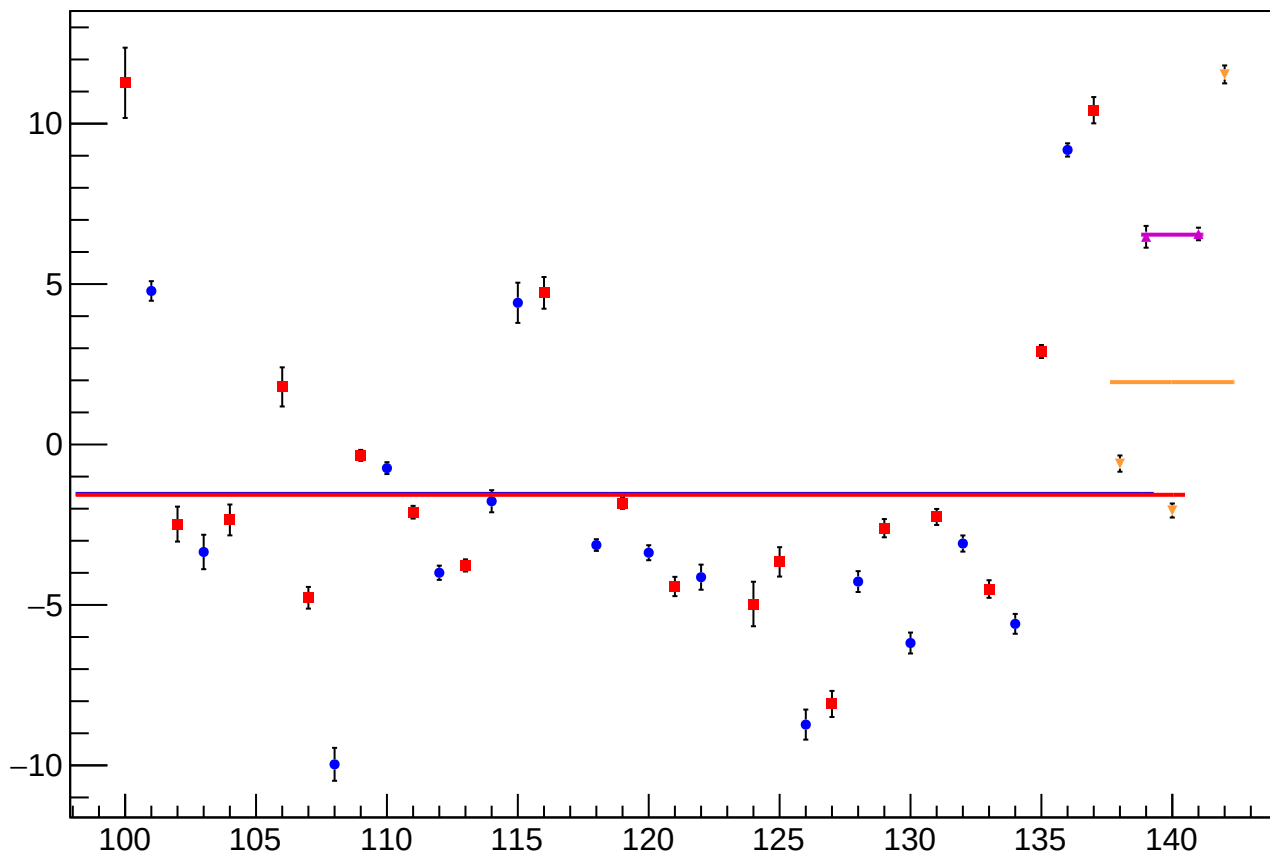
Right: 5.602 ± 0.044 $\chi^2/\text{NDF}: 146229.3/34$

In: -0.478 ± 0.060 $\chi^2/\text{NDF}: 146239.6/17$

Out: -1.582 ± 0.055 $\chi^2/\text{NDF}: 158981.8/21$

All: -1.081 ± 0.040 $\chi^2/\text{NDF}: 305406.4/39$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.540 ± 0.070 χ^2/NDF : 4535.9/15

Left Out: 1.944 ± 0.143 χ^2/NDF : 1608.5/2

Right Out: -1.567 ± 0.065 χ^2/NDF : 2497.0/18

Left In: 6.540 ± 0.170 χ^2/NDF : 0.1/1

Left: 3.841 ± 0.109 χ^2/NDF : 2036.8/4

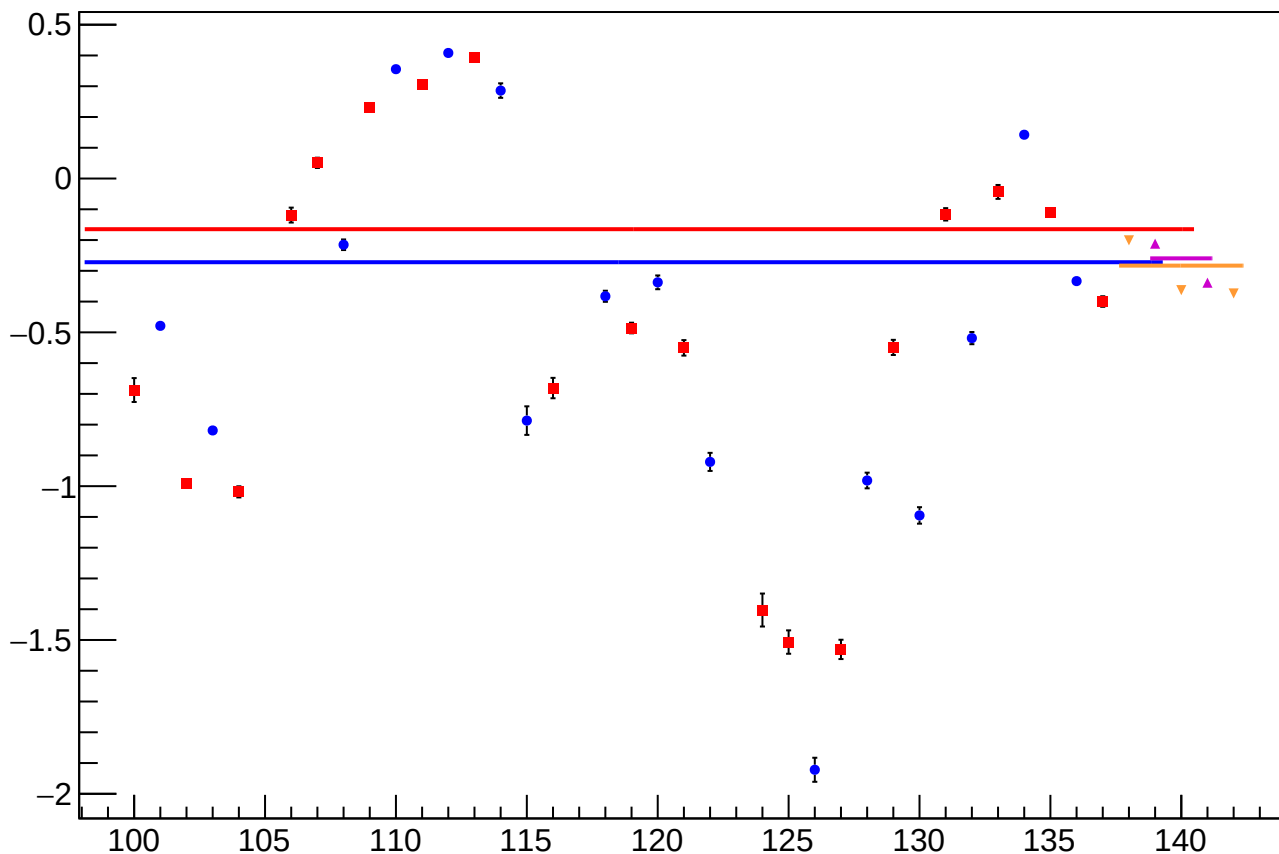
Right: -1.555 ± 0.047 χ^2/NDF : 7032.9/34

In: -0.383 ± 0.064 χ^2/NDF : 6467.0/17

Out: -0.970 ± 0.059 χ^2/NDF : 4608.2/21

All: -0.703 ± 0.043 χ^2/NDF : 11120.5/39

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.272 ± 0.004 $\chi^2/\text{NDF}: 12063.6/15$

Left Out: -0.283 ± 0.006 $\chi^2/\text{NDF}: 202.6/2$

Right Out: -0.165 ± 0.004 $\chi^2/\text{NDF}: 15490.5/18$

Left In: -0.259 ± 0.006 $\chi^2/\text{NDF}: 113.7/1$

Left: -0.271 ± 0.004 $\chi^2/\text{NDF}: 324.6/4$

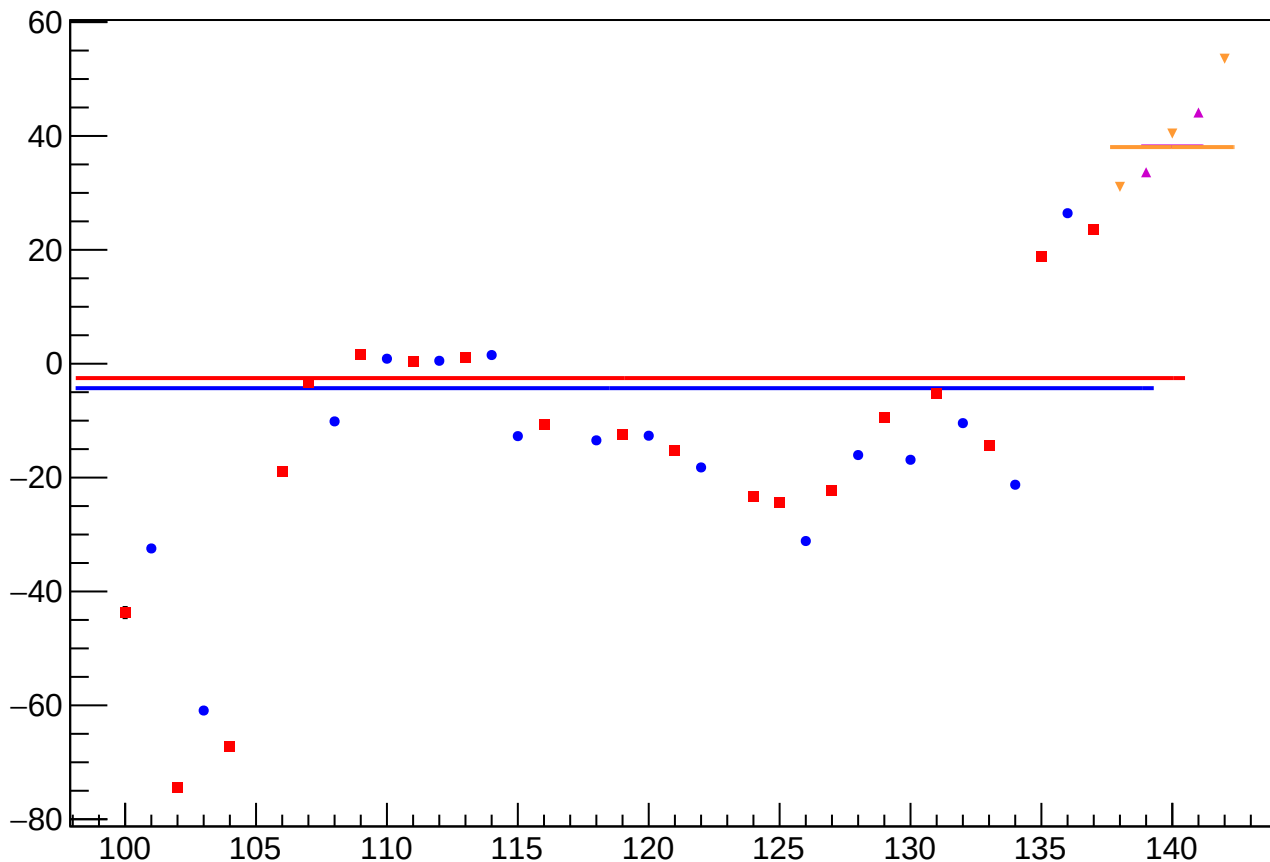
Right: -0.214 ± 0.003 $\chi^2/\text{NDF}: 27917.4/34$

In: -0.268 ± 0.003 $\chi^2/\text{NDF}: 12180.5/17$

Out: -0.200 ± 0.003 $\chi^2/\text{NDF}: 15984.1/21$

All: -0.232 ± 0.002 $\chi^2/\text{NDF}: 28377.0/39$

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.296 ± 0.056 $\chi^2/\text{NDF}: 74218.3/15$

Left Out: 38.046 ± 0.139 $\chi^2/\text{NDF}: 3144.6/2$

Right Out: -2.524 ± 0.047 $\chi^2/\text{NDF}: 79883.8/18$

Left In: 38.164 ± 0.150 $\chi^2/\text{NDF}: 1201.9/1$

Left: 38.101 ± 0.102 $\chi^2/\text{NDF}: 4346.9/4$

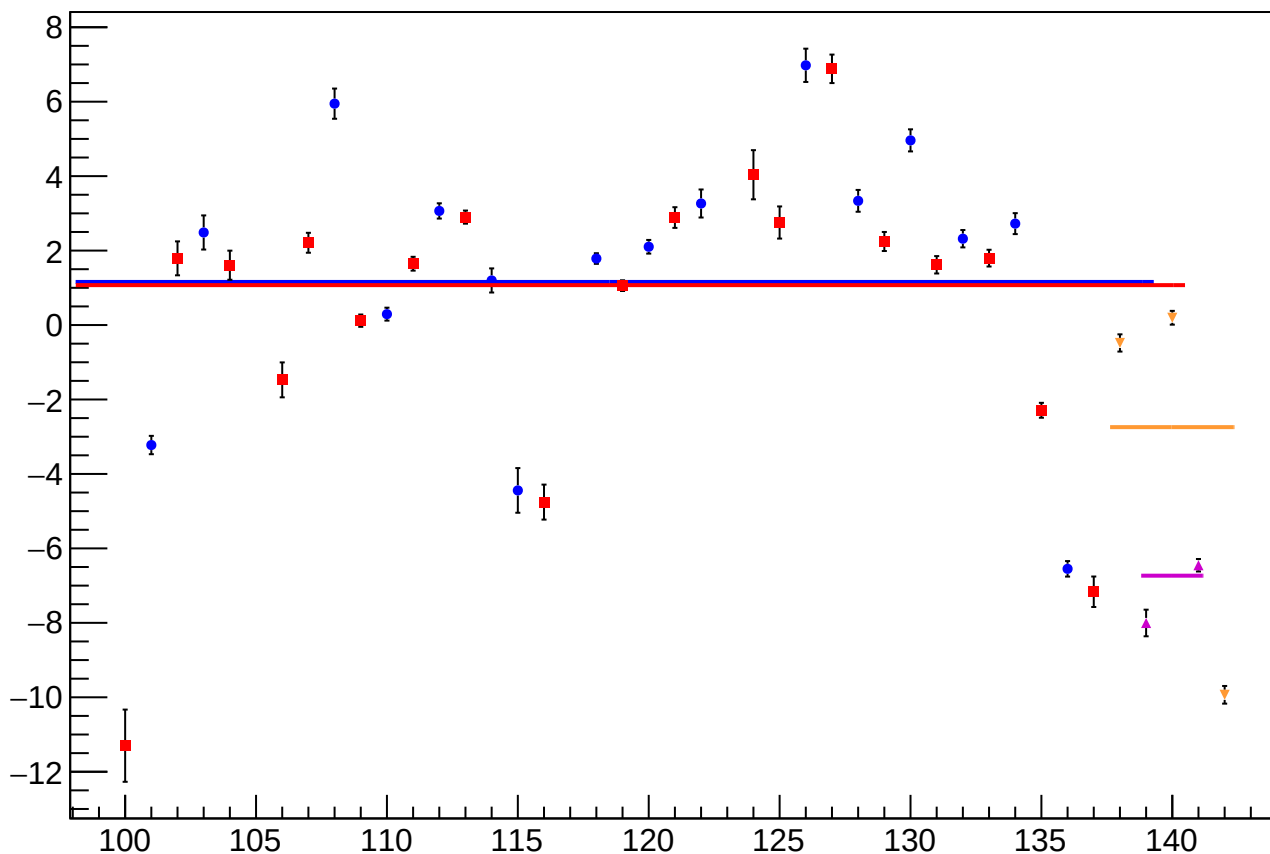
Right: -3.265 ± 0.036 $\chi^2/\text{NDF}: 154689.9/34$

In: 0.860 ± 0.052 $\chi^2/\text{NDF}: 145891.2/17$

Out: 1.682 ± 0.045 $\chi^2/\text{NDF}: 159541.3/21$

All: 1.334 ± 0.034 $\chi^2/\text{NDF}: 305575.6/39$

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.158+/-0.062 χ^2/NDF : 2549.9/15

Left Out: -2.743+/-0.124 χ^2/NDF :1265.0/2

Right Out: 1.072+/-0.058 χ^2/NDF : 1551.4/18

Left In: -6.733+/-0.152 χ^2/NDF :15.4/1

Left: -4.330+/-0.096 χ^2/NDF : 1695.4/4

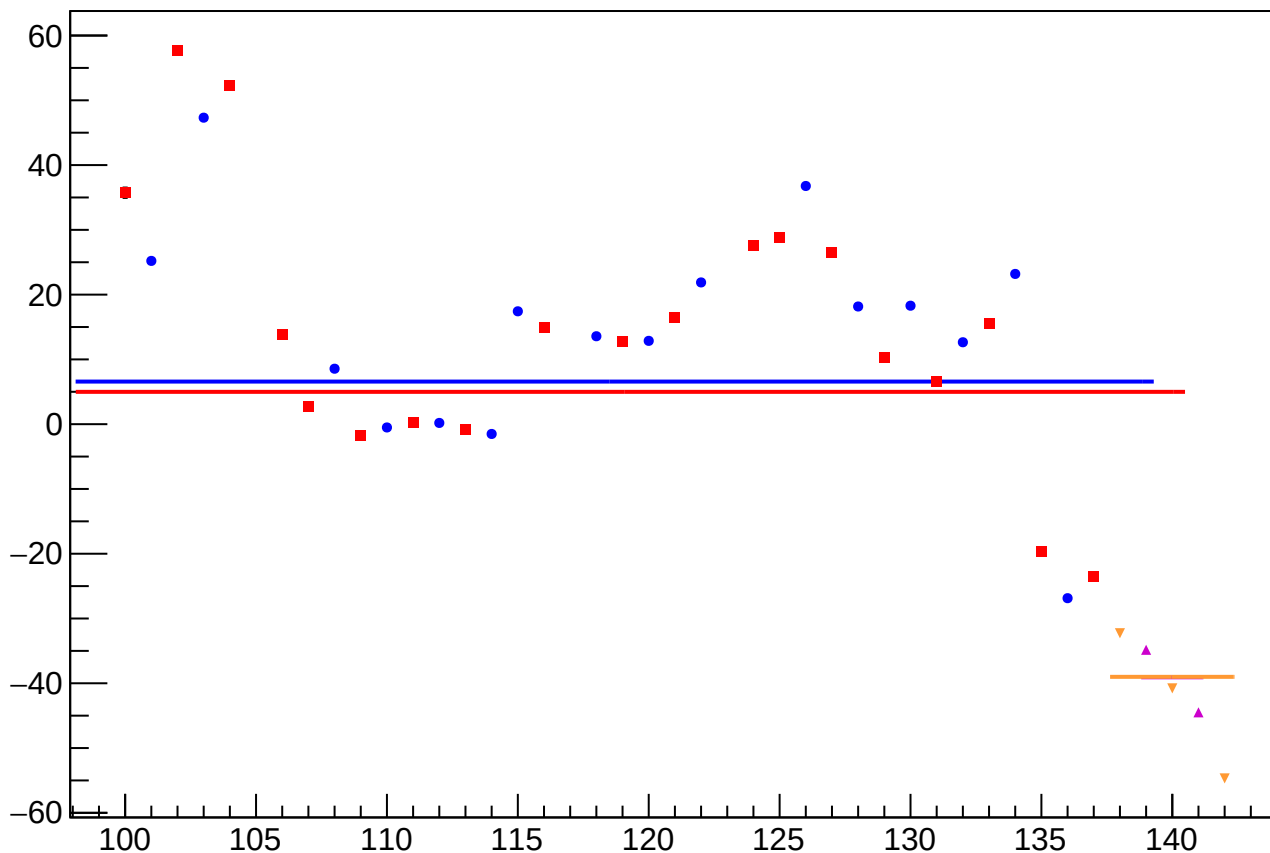
Right: 1.113+/-0.042 χ^2/NDF : 4102.4/34

In: 0.047+/-0.057 χ^2/NDF :4880.7/17

Out: 0.376+/-0.053 χ^2/NDF :3596.0/21

All: 0.225+/-0.039 χ^2/NDF : 8494.7/39

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.578 ± 0.066 χ^2/NDF : 69731.5/15

Left Out: -39.007 ± 0.144 χ^2/NDF : 2840.9/2

Right Out: 4.992 ± 0.060 χ^2/NDF : 74461.3/18

Left In: -39.079 ± 0.155 χ^2/NDF : 954.2/1

Left: -39.040 ± 0.106 χ^2/NDF : 3795.2/4

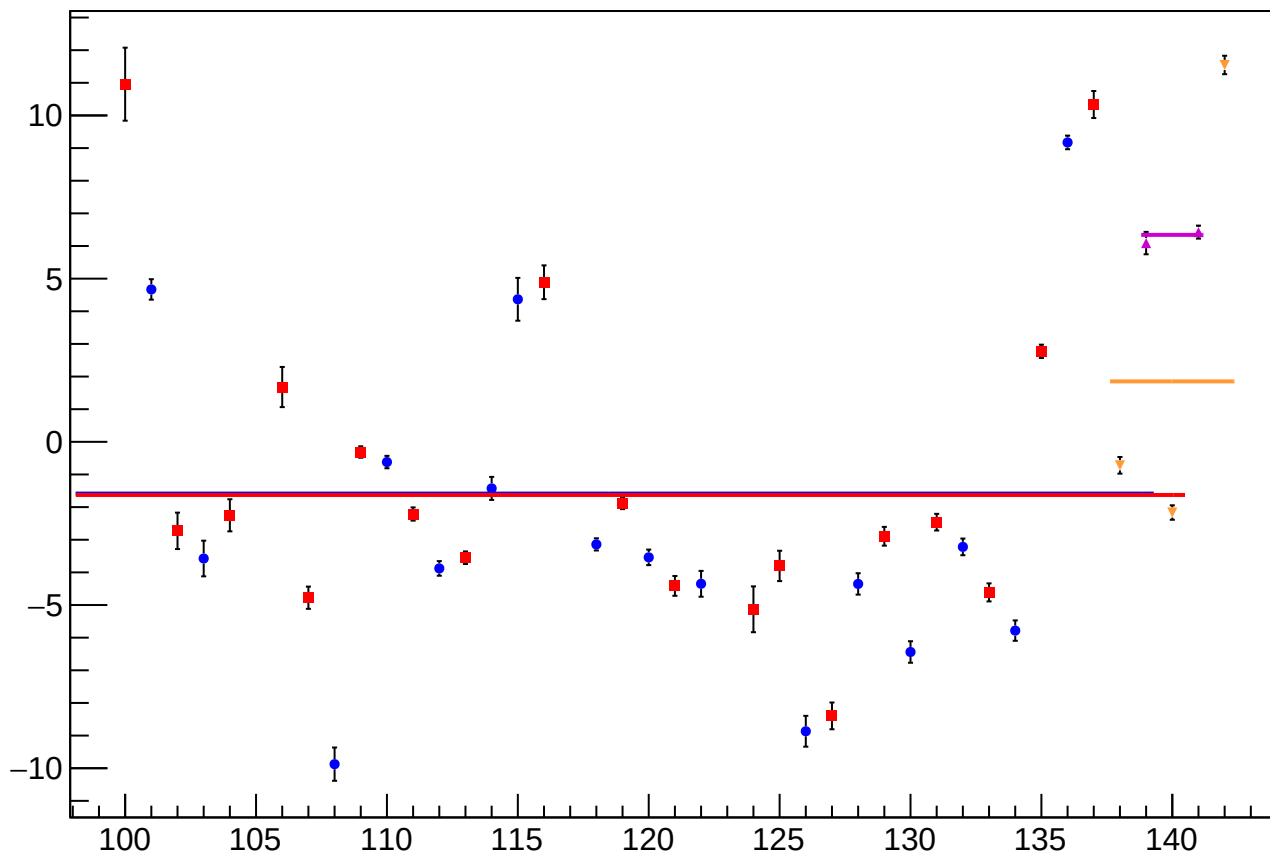
Right: 5.710 ± 0.045 χ^2/NDF : 144504.9/34

In: -0.488 ± 0.061 χ^2/NDF : 143863.2/17

Out: -1.600 ± 0.056 χ^2/NDF : 156755.1/21

All: -1.094 ± 0.041 χ^2/NDF : 300799.5/39

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.586 ± 0.071 χ^2/NDF : 4472.6/15

Left Out: 1.852 ± 0.144 χ^2/NDF : 1606.9/2

Right Out: -1.628 ± 0.066 χ^2/NDF : 2422.3/18

Left In: 6.341 ± 0.172 χ^2/NDF : 0.7/1

Left: 3.700 ± 0.110 χ^2/NDF : 2007.9/4

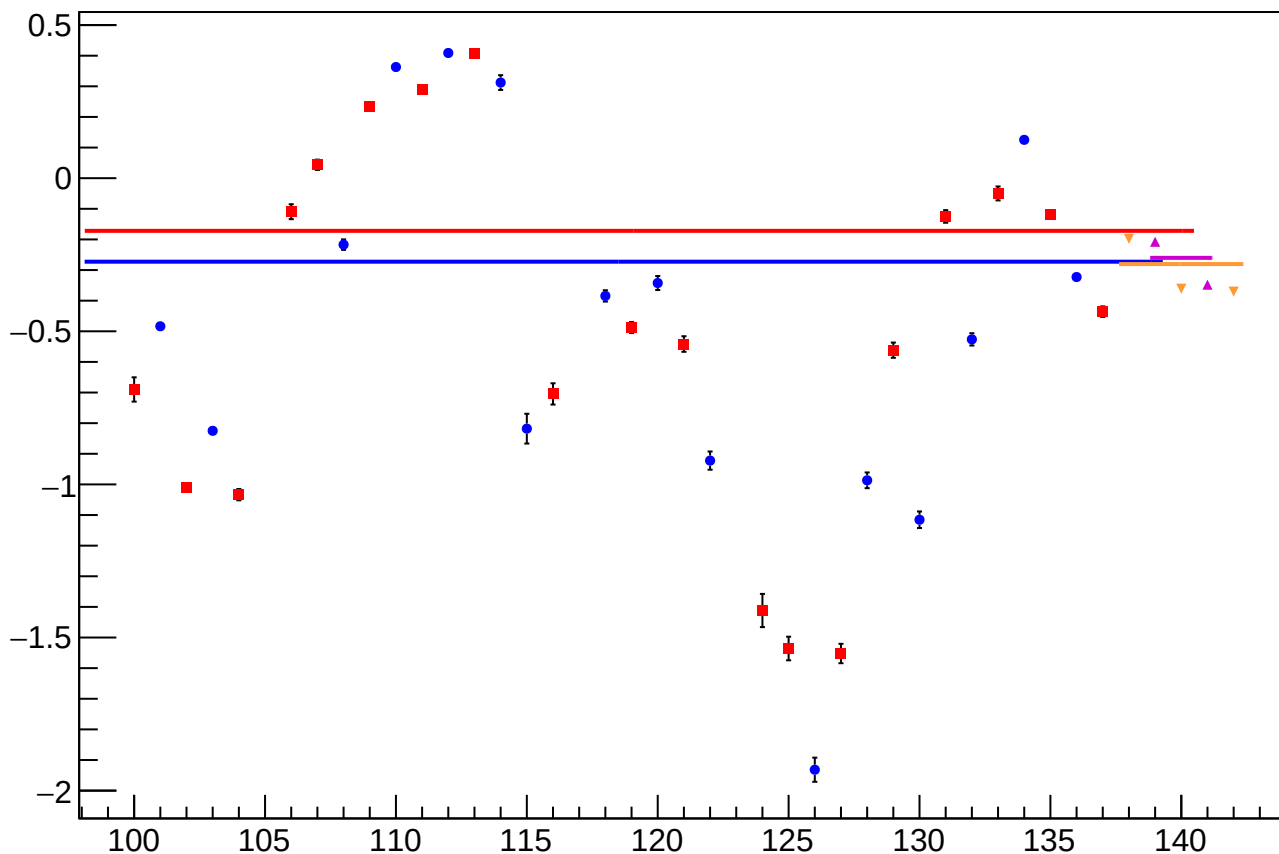
Right: -1.609 ± 0.048 χ^2/NDF : 6895.1/34

In: -0.439 ± 0.065 χ^2/NDF : 6287.1/17

Out: -1.026 ± 0.060 χ^2/NDF : 4512.4/21

All: -0.759 ± 0.044 χ^2/NDF : 10843.4/39

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.273 ± 0.004 χ^2/NDF : 11856.3/15

Left Out: -0.280 ± 0.006 χ^2/NDF : 200.6/2

Right Out: -0.172 ± 0.004 χ^2/NDF : 15322.3/18

Left In: -0.260 ± 0.006 χ^2/NDF : 135.7/1

Left: -0.270 ± 0.004 χ^2/NDF : 342.4/4

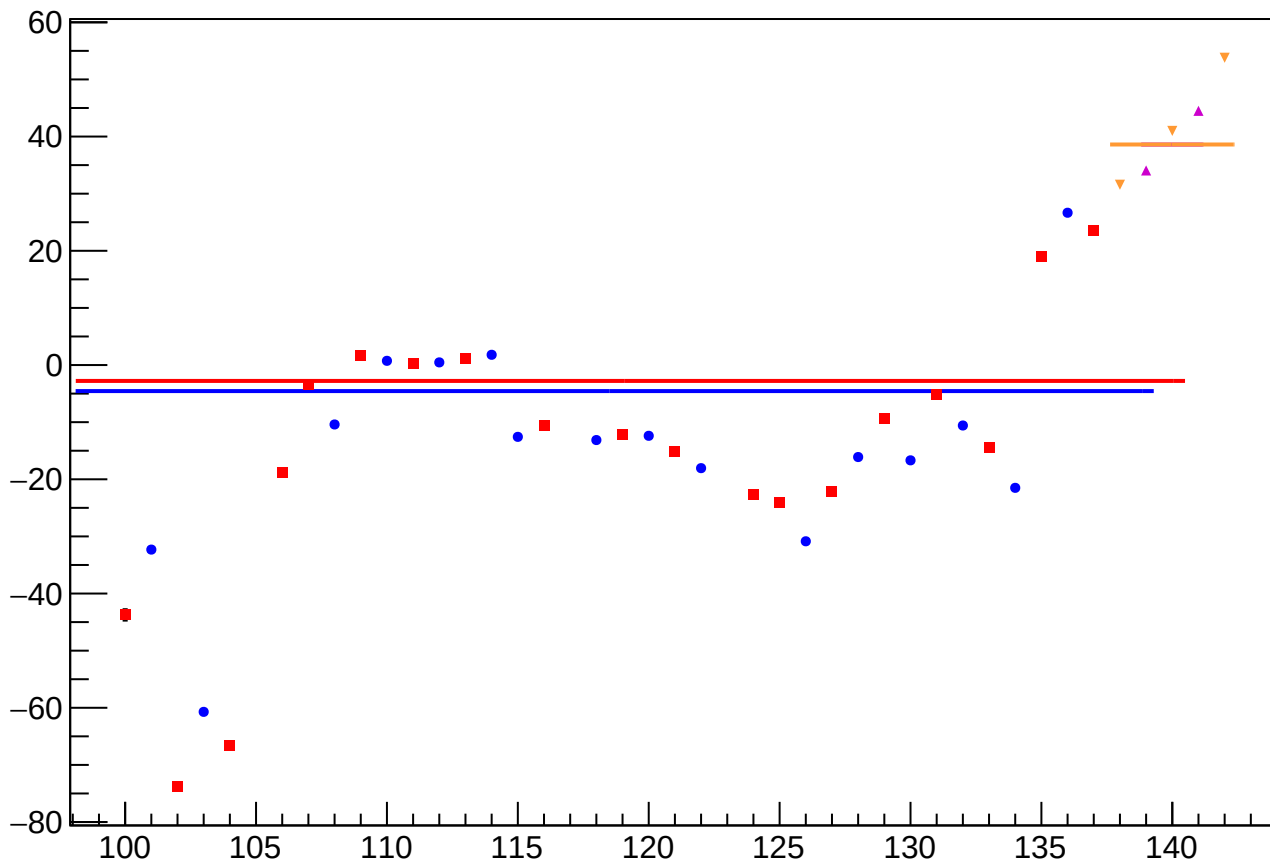
Right: -0.218 ± 0.003 χ^2/NDF : 27488.4/34

In: -0.268 ± 0.003 χ^2/NDF : 11995.0/17

Out: -0.205 ± 0.003 χ^2/NDF : 15761.9/21

All: -0.235 ± 0.002 χ^2/NDF : 27939.5/39

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.557 ± 0.057 $\chi^2/\text{NDF}: 72635.2/15$

Left Out: 38.610 ± 0.142 $\chi^2/\text{NDF}: 2972.8/2$

Right Out: -2.780 ± 0.049 $\chi^2/\text{NDF}: 77905.3/18$

Left In: 38.597 ± 0.153 $\chi^2/\text{NDF}: 1143.1/1$

Left: 38.604 ± 0.104 $\chi^2/\text{NDF}: 4115.9/4$

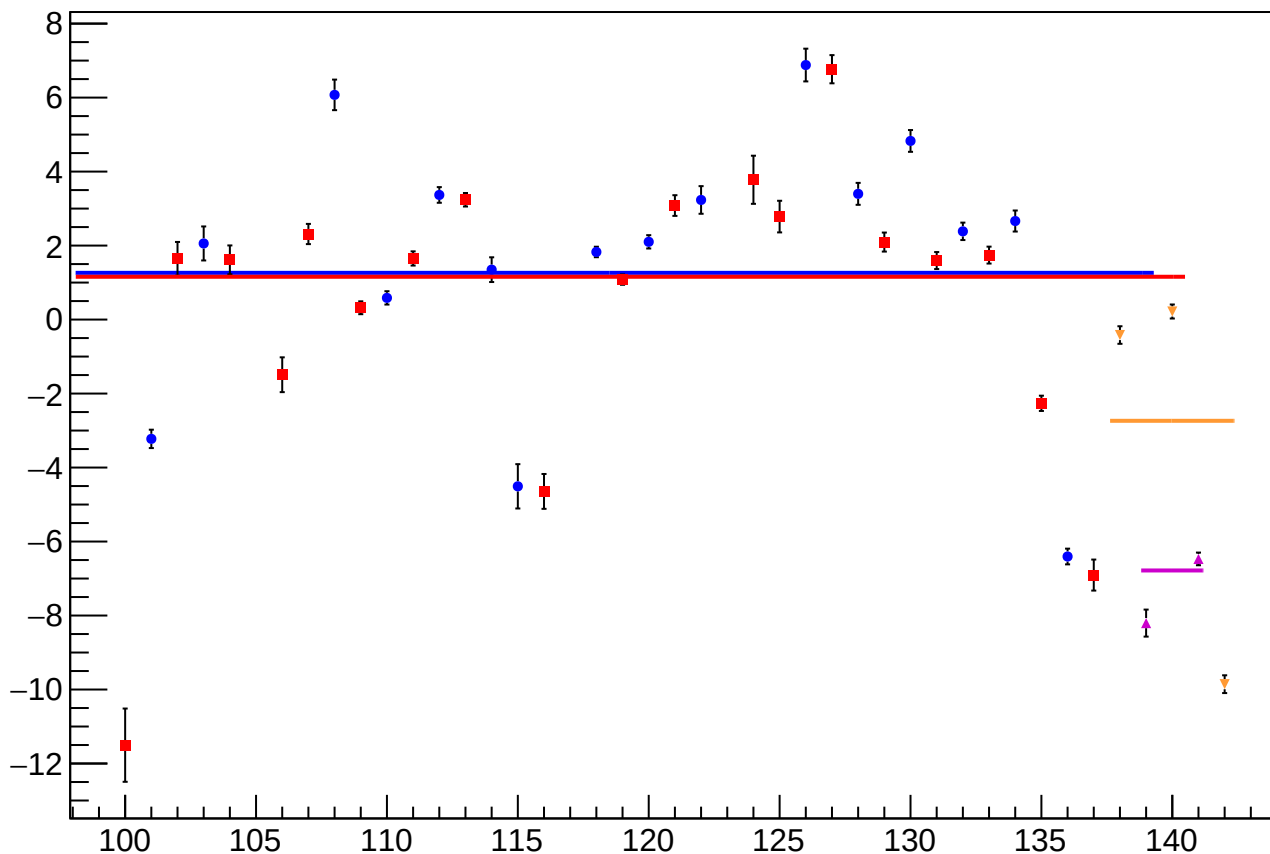
Right: -3.530 ± 0.037 $\chi^2/\text{NDF}: 151106.4/34$

In: 0.669 ± 0.053 $\chi^2/\text{NDF}: 143674.2/17$

Out: 1.540 ± 0.046 $\chi^2/\text{NDF}: 156864.2/21$

All: 1.169 ± 0.035 $\chi^2/\text{NDF}: 300692.1/39$

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.263 $\pm$ 0.062 χ^2 /NDF: 2443.8/15

Left Out: -2.736 $\pm$ 0.126 χ^2 /NDF:1216.8/2

Right Out: 1.157 $\pm$ 0.059 χ^2 /NDF: 1490.5/18

Left In: -6.782 $\pm$ 0.155 χ^2 /NDF:18.5/1

Left: -4.347 $\pm$ 0.098 χ^2 /NDF: 1645.3/4

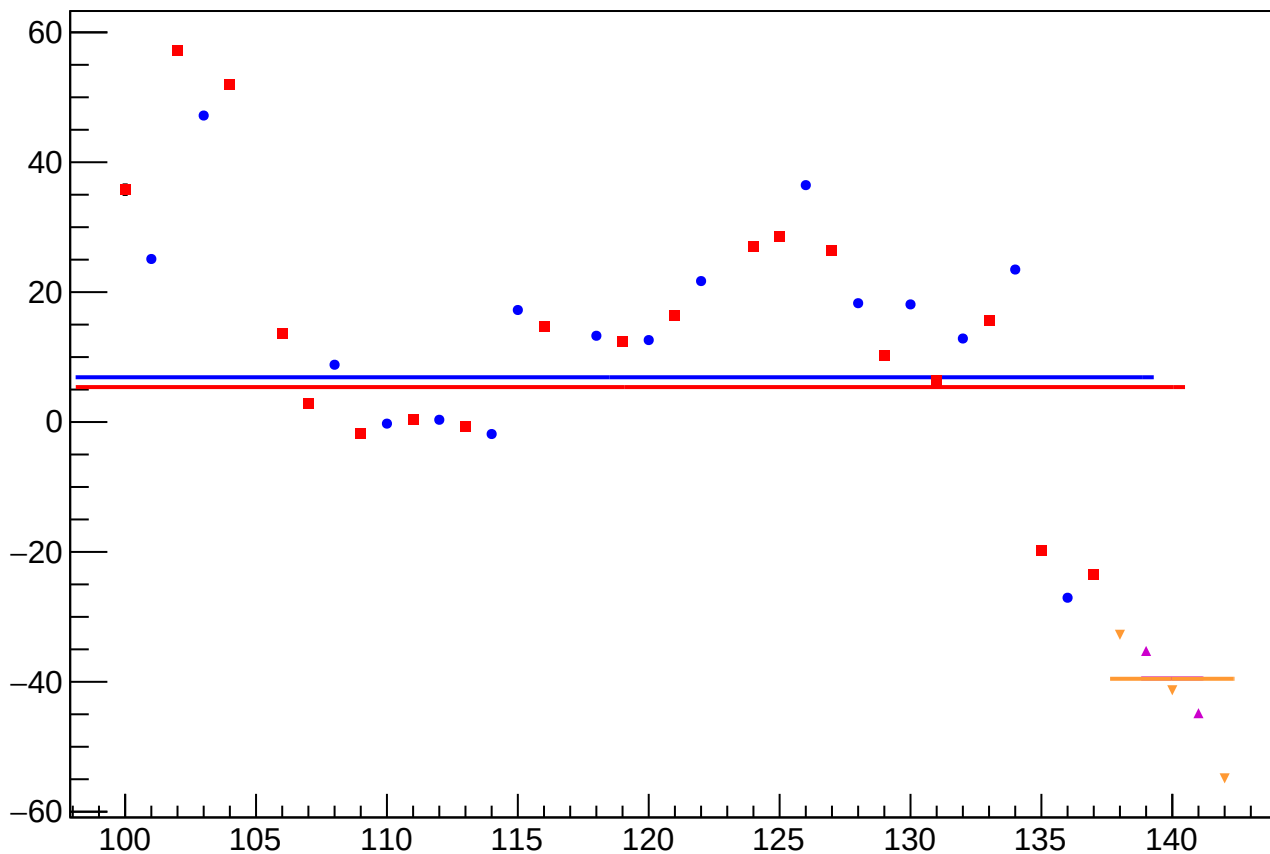
Right: 1.208 $\pm$ 0.043 χ^2 /NDF: 3935.9/34

In: 0.152 $\pm$ 0.058 χ^2 /NDF:4784.9/17

Out: 0.456 $\pm$ 0.054 χ^2 /NDF:3489.2/21

All: 0.315 $\pm$ 0.039 χ^2 /NDF: 8289.1/39

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.895 ± 0.067 χ^2/NDF : 68047.4/15

Left Out: -39.531 ± 0.147 χ^2/NDF : 2677.5/2

Right Out: 5.381 ± 0.062 χ^2/NDF : 72230.2/18

Left In: -39.479 ± 0.158 χ^2/NDF : 902.8/1

Left: -39.507 ± 0.108 χ^2/NDF : 3580.4/4

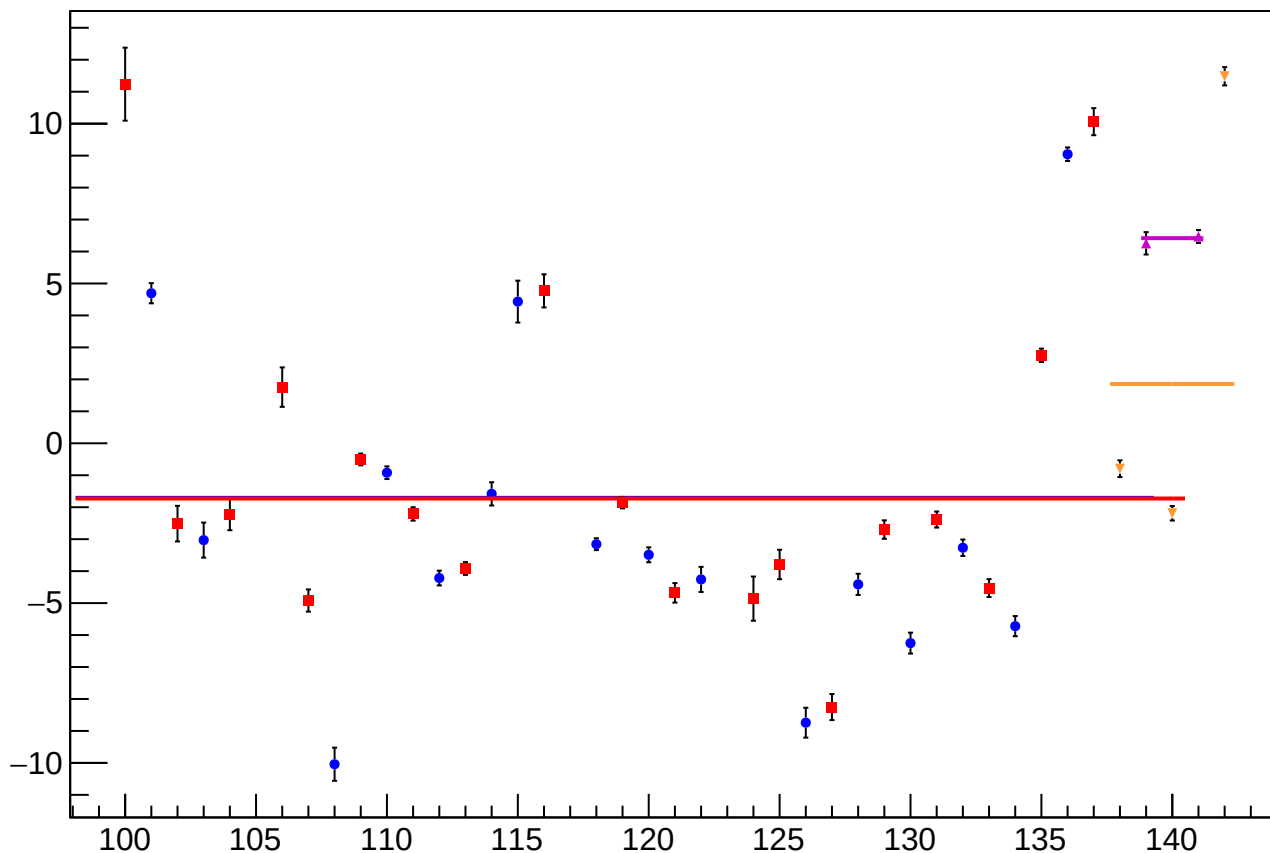
Right: 6.071 ± 0.045 χ^2/NDF : 140552.1/34

In: -0.209 ± 0.062 χ^2/NDF : 141547.8/17

Out: -1.322 ± 0.057 χ^2/NDF : 154026.2/21

All: -0.813 ± 0.042 χ^2/NDF : 295749.1/39

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.708 ± 0.072 χ^2/NDF : 4289.8/15

Left Out: 1.856 ± 0.147 χ^2/NDF : 1553.5/2

Right Out: -1.727 ± 0.067 χ^2/NDF : 2309.6/18

Left In: 6.418 ± 0.176 χ^2/NDF : 0.3/1

Left: 3.737 ± 0.113 χ^2/NDF : 1950.9/4

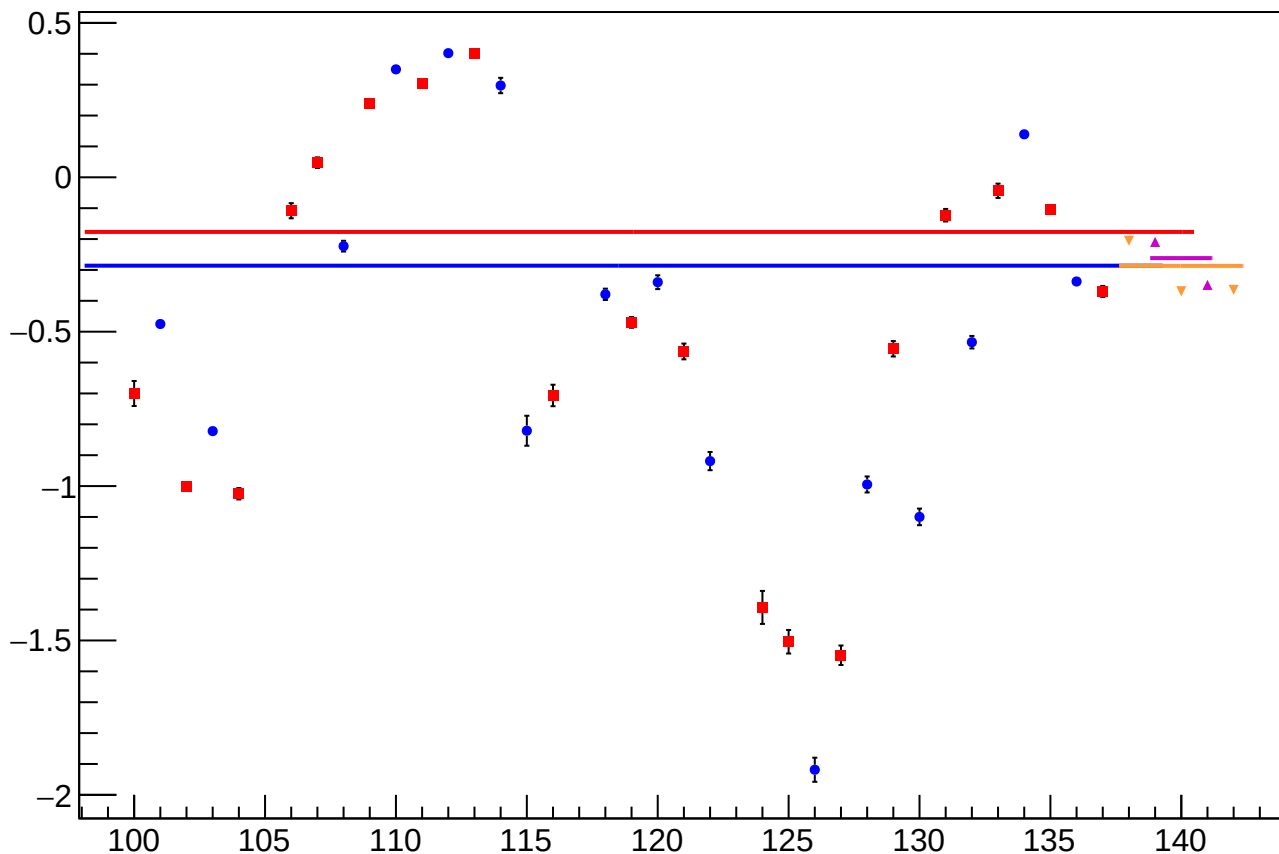
Right: -1.718 ± 0.049 χ^2/NDF : 6599.4/34

In: -0.549 ± 0.066 χ^2/NDF : 6127.8/17

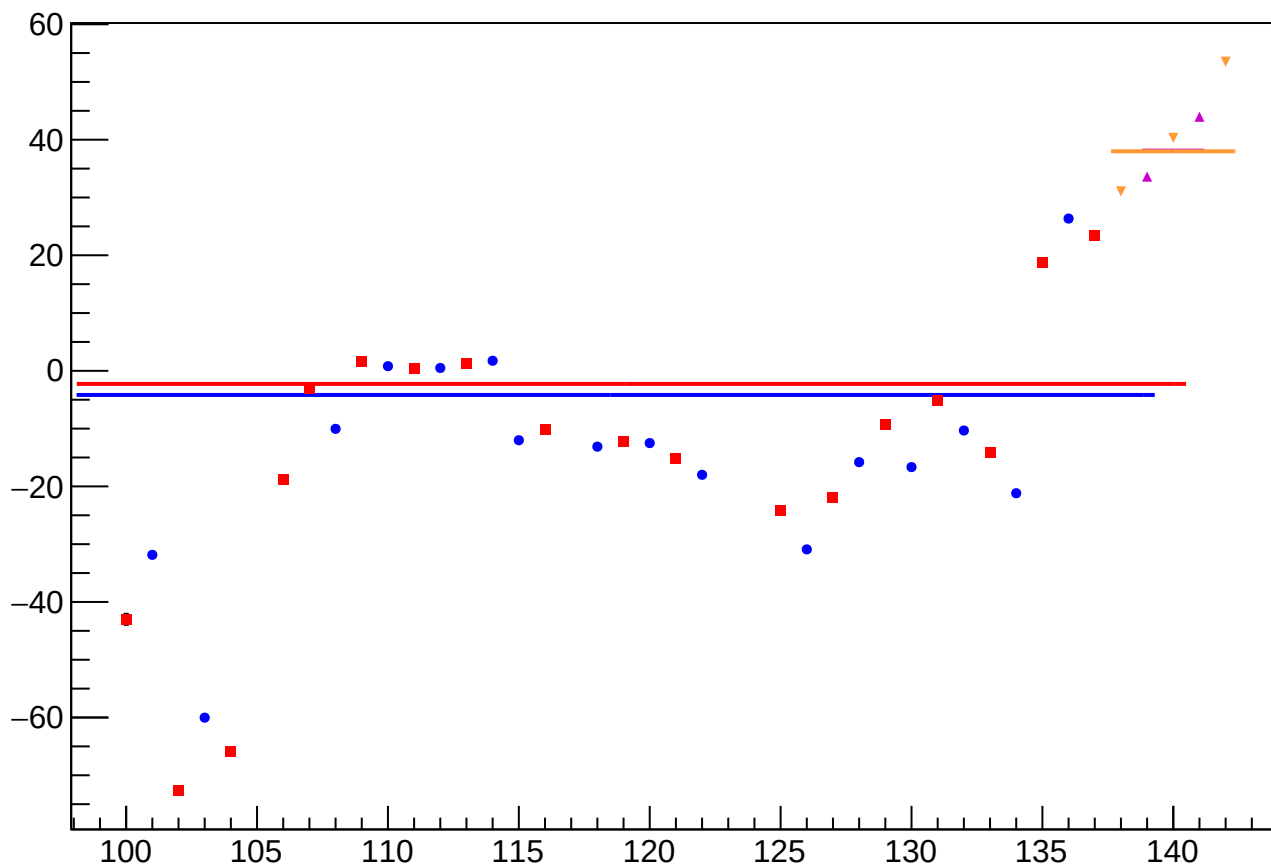
Out: -1.113 ± 0.061 χ^2/NDF : 4355.8/21

All: -0.855 ± 0.045 χ^2/NDF : 10522.9/39

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.173 ± 0.054 χ^2/NDF : 75394.5/15

Left Out: 38.000 ± 0.137 χ^2/NDF : 3194.4/2

Right Out: -2.261 ± 0.046 χ^2/NDF : 79624.4/17

Left In: 38.105 ± 0.148 χ^2/NDF : 1204.8/1

Left: 38.049 ± 0.101 χ^2/NDF : 4399.5/4

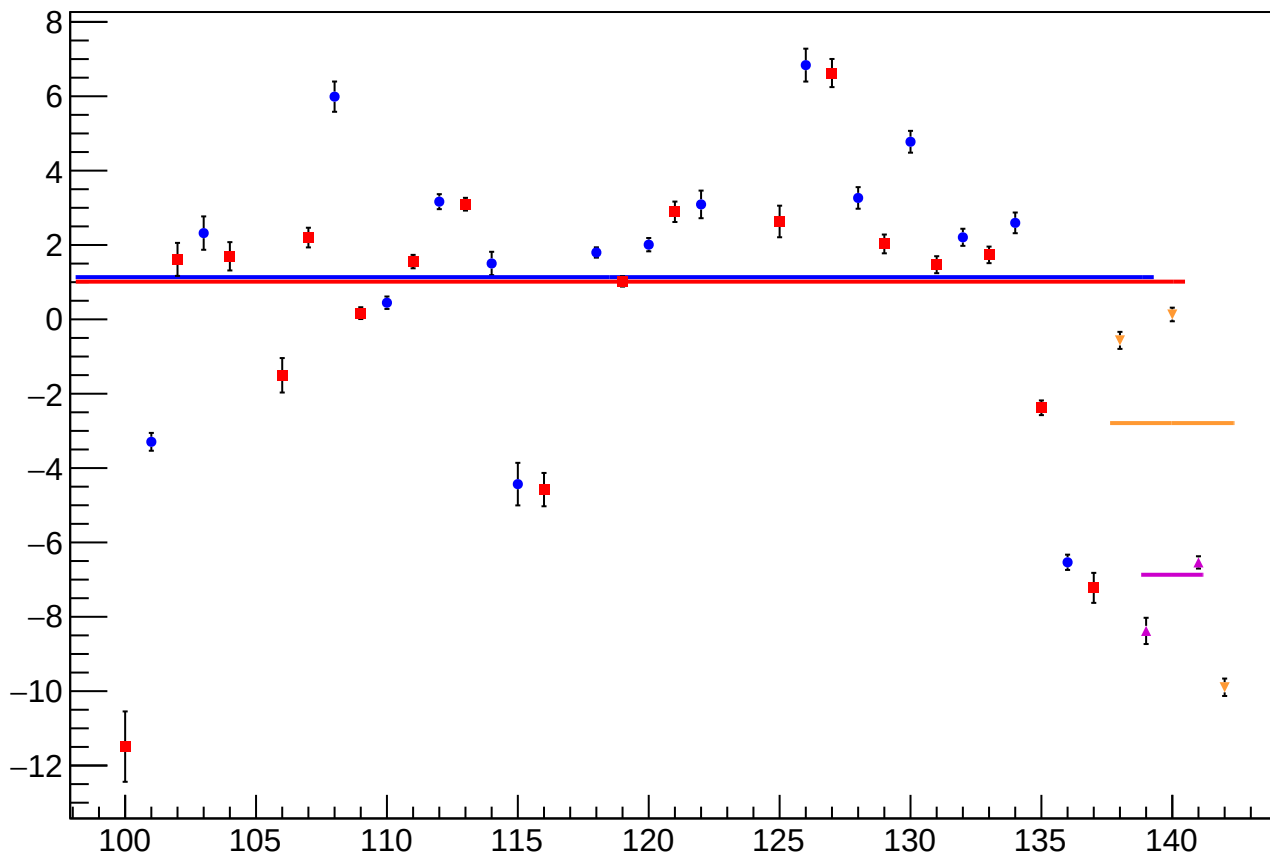
Right: -3.058 ± 0.035 χ^2/NDF : 155737.8/33

In: 0.874 ± 0.051 χ^2/NDF : 148567.7/17

Out: 1.813 ± 0.044 χ^2/NDF : 160210.9/20

All: 1.417 ± 0.033 χ^2/NDF : 308974.1/38

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.135+/-0.060 χ^2/NDF : 2595.7/15

Left Out: -2.790+/-0.122 χ^2/NDF :1268.6/2

Right Out: 1.014+/-0.057 χ^2/NDF : 1593.0/17

Left In: -6.869+/-0.150 χ^2/NDF :22.3/1

Left: -4.417+/-0.095 χ^2/NDF : 1736.3/4

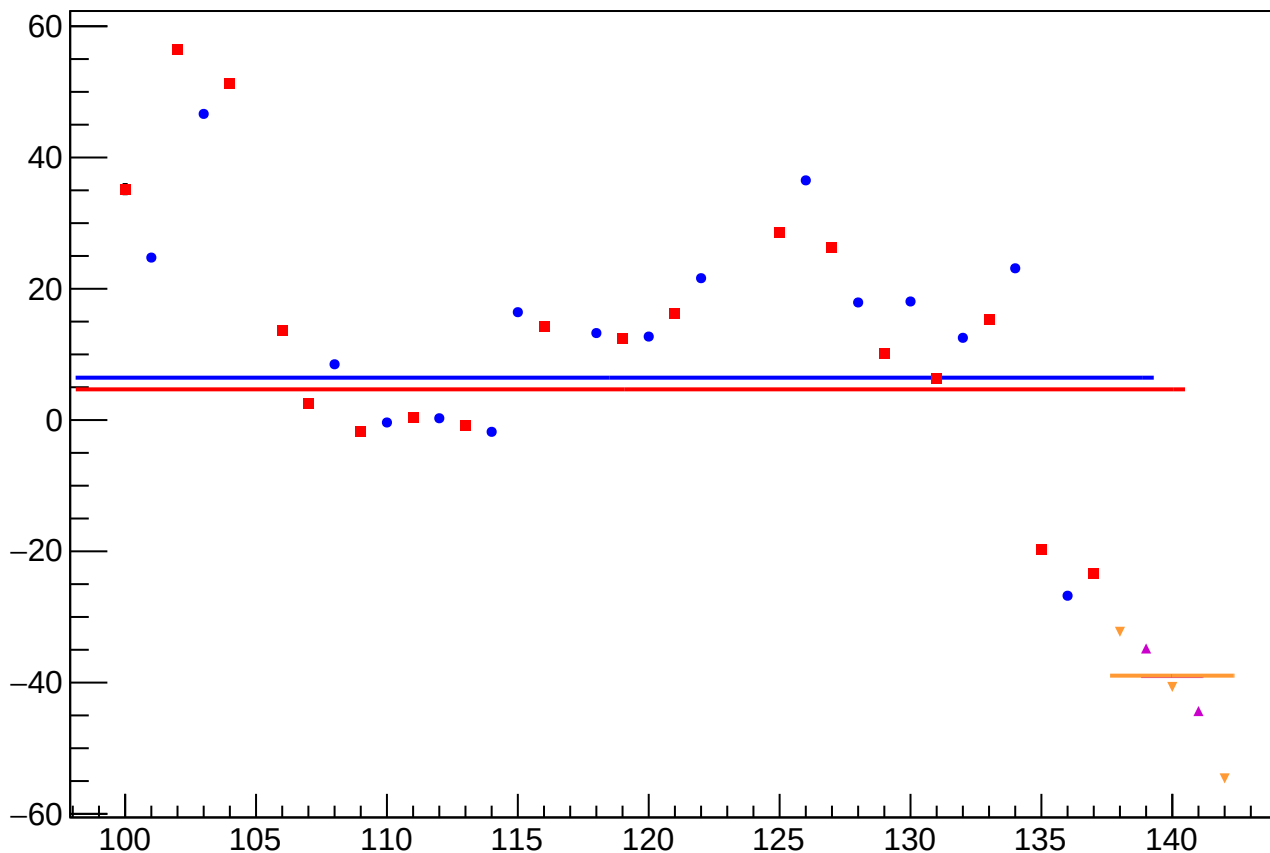
Right: 1.072+/-0.041 χ^2/NDF : 4190.8/33

In: 0.024+/-0.056 χ^2/NDF :5074.7/17

Out: 0.329+/-0.052 χ^2/NDF :3657.6/20

All: 0.188+/-0.038 χ^2/NDF : 8748.5/38

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.458+/-0.065 χ^2/NDF : 70792.7/15

Left Out: -38.942+/-0.142 χ^2/NDF : 2887.8/2

Right Out: 4.677+/-0.059 χ^2/NDF : 74414.5/17

Left In: -39.003+/-0.153 χ^2/NDF : 957.1/1

Left: -38.970+/-0.104 χ^2/NDF : 3845.0/4

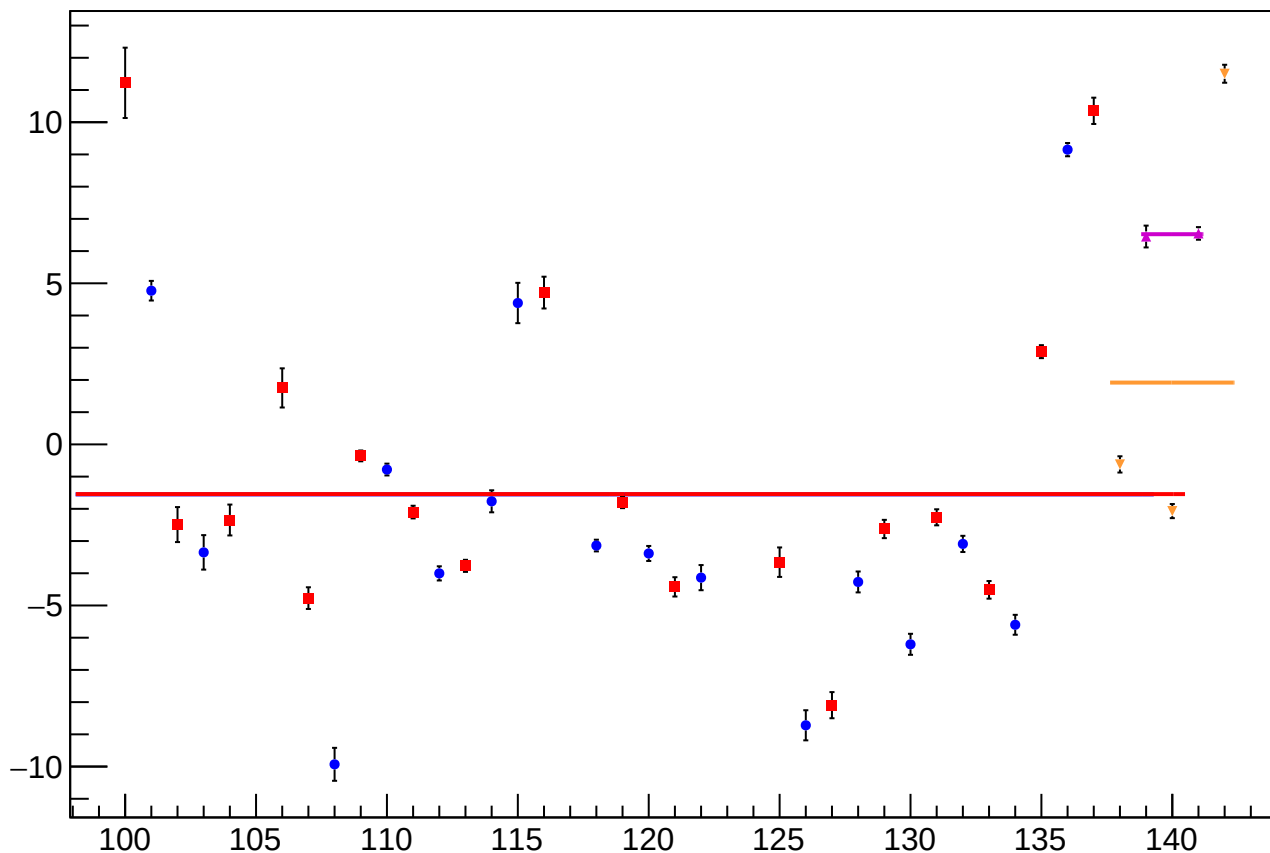
Right: 5.483+/-0.044 χ^2/NDF : 145618.4/33

In: -0.480+/-0.060 χ^2/NDF : 146497.4/17

Out: -1.745+/-0.055 χ^2/NDF : 157529.1/20

All: -1.170+/-0.040 χ^2/NDF : 304270.4/38

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.552 ± 0.069 χ^2/NDF : 4543.6/15

Left Out: 1.919 ± 0.142 χ^2/NDF : 1613.3/2

Right Out: -1.543 ± 0.065 χ^2/NDF : 2473.0/17

Left In: 6.524 ± 0.170 χ^2/NDF : 0.1/1

Left: 3.819 ± 0.109 χ^2/NDF : 2045.8/4

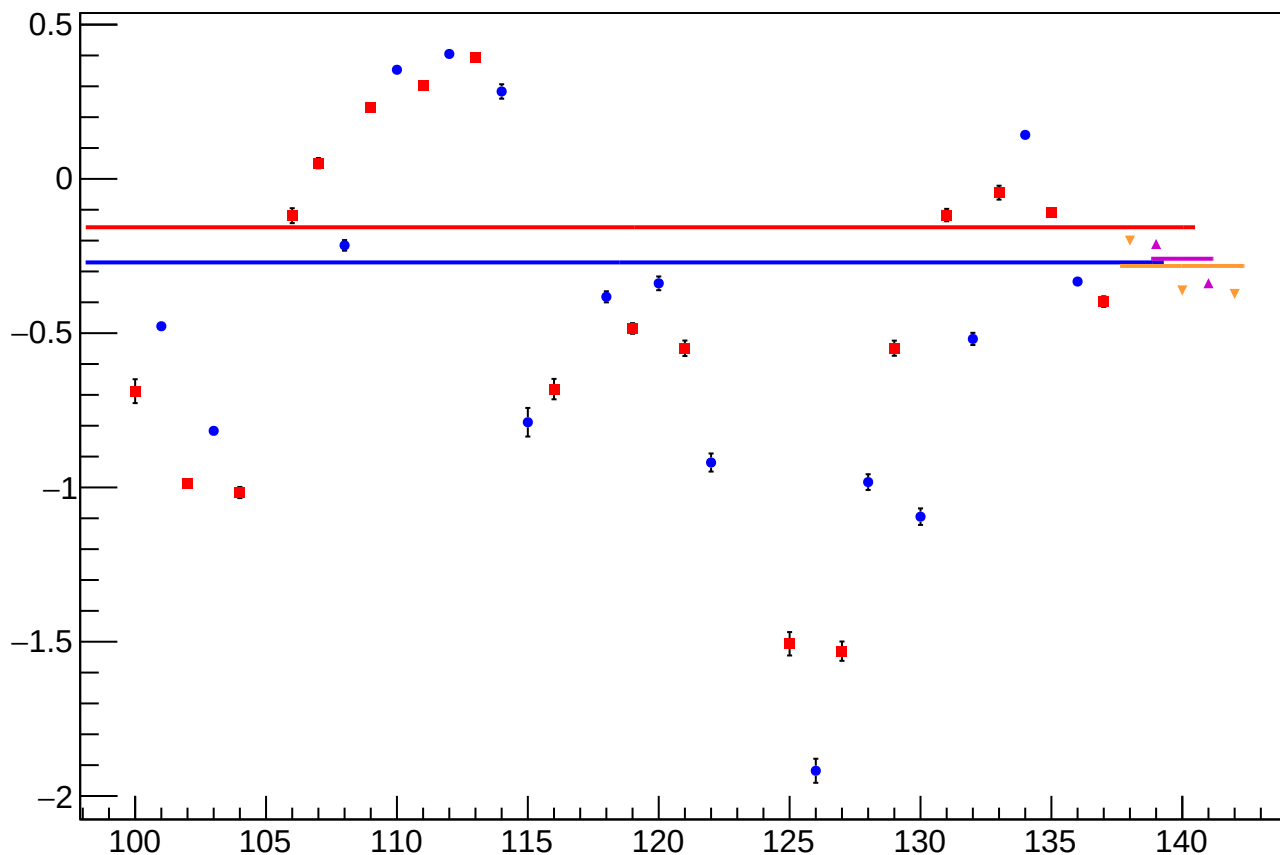
Right: -1.547 ± 0.047 χ^2/NDF : 7016.6/33

In: -0.398 ± 0.064 χ^2/NDF : 6484.1/17

Out: -0.952 ± 0.059 χ^2/NDF : 4577.3/20

All: -0.699 ± 0.043 χ^2/NDF : 11101.9/38

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.271 ± 0.004 $\chi^2/\text{NDF}: 12096.1/15$

Left Out: -0.282 ± 0.006 $\chi^2/\text{NDF}: 203.3/2$

Right Out: -0.157 ± 0.004 $\chi^2/\text{NDF}: 15019.0/17$

Left In: -0.259 ± 0.006 $\chi^2/\text{NDF}: 115.0/1$

Left: -0.270 ± 0.004 $\chi^2/\text{NDF}: 326.4/4$

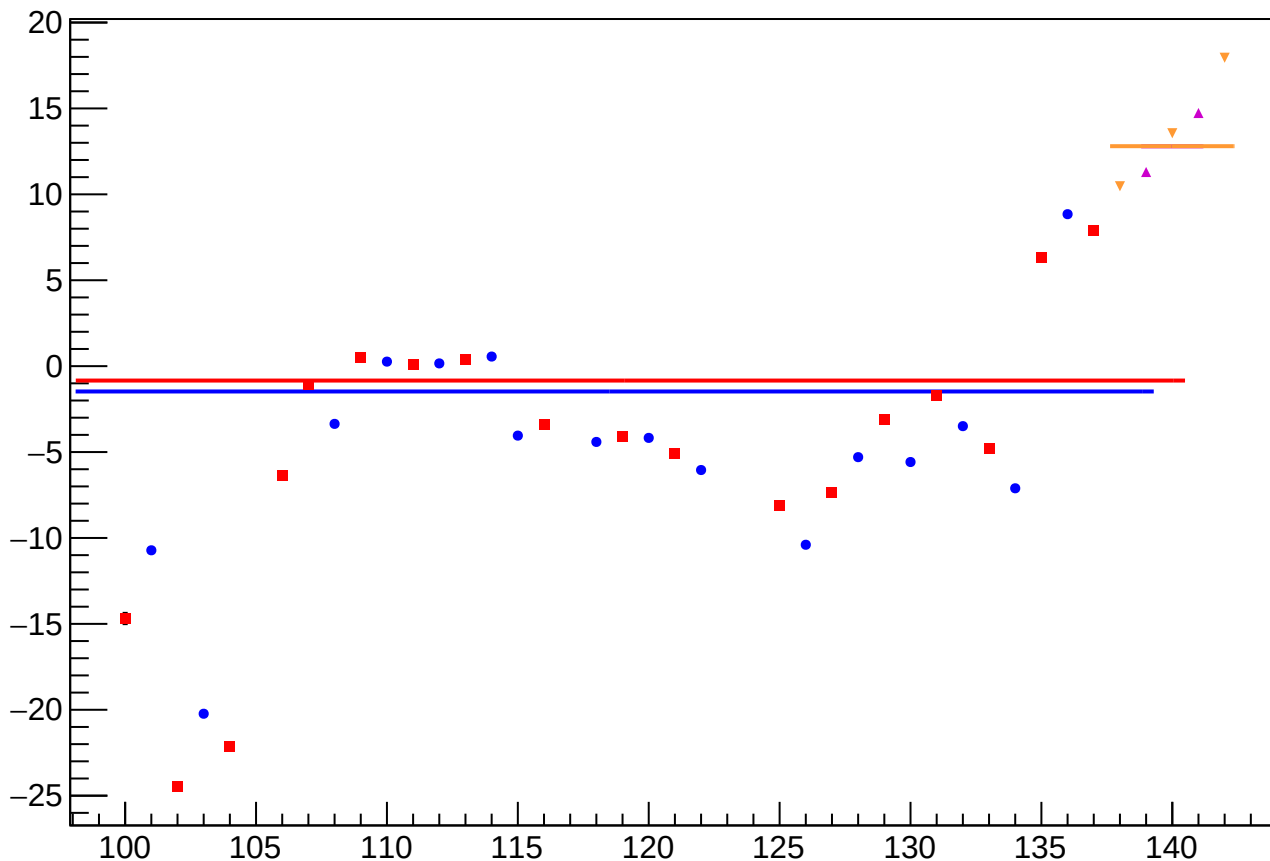
Right: -0.209 ± 0.003 $\chi^2/\text{NDF}: 27526.5/33$

In: -0.267 ± 0.003 $\chi^2/\text{NDF}: 12213.9/17$

Out: -0.194 ± 0.003 $\chi^2/\text{NDF}: 15550.1/20$

All: -0.228 ± 0.002 $\chi^2/\text{NDF}: 28008.1/38$

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.474 ± 0.019 $\chi^2/\text{NDF}: 73722.2/15$

Left Out: 12.802 ± 0.047 $\chi^2/\text{NDF}: 3083.0/2$

Right Out: -0.838 ± 0.016 $\chi^2/\text{NDF}: 78013.1/17$

Left In: 12.794 ± 0.050 $\chi^2/\text{NDF}: 1148.1/1$

Left: 12.798 ± 0.034 $\chi^2/\text{NDF}: 4231.0/4$

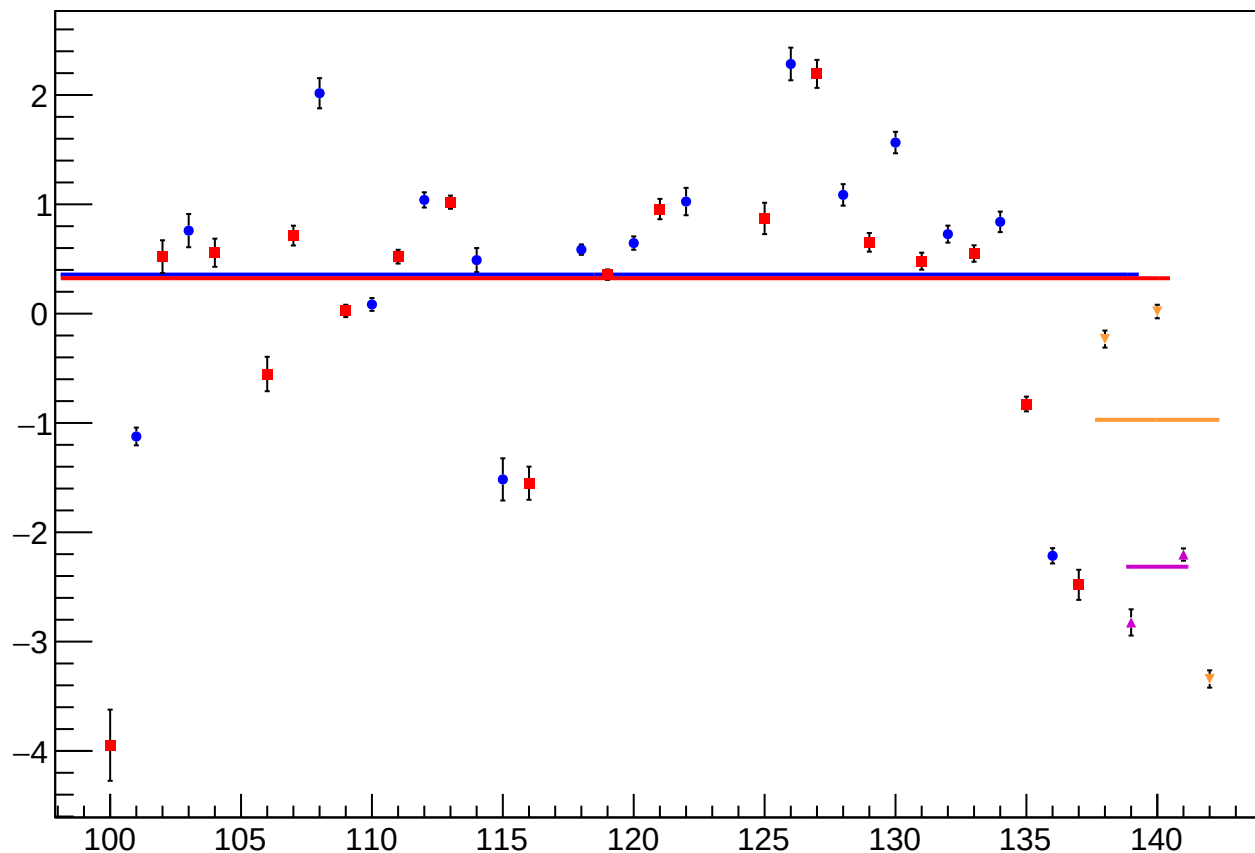
Right: -1.107 ± 0.012 $\chi^2/\text{NDF}: 152399.4/33$

In: 0.269 ± 0.018 $\chi^2/\text{NDF}: 145669.3/17$

Out: 0.601 ± 0.015 $\chi^2/\text{NDF}: 157517.5/20$

All: 0.459 ± 0.011 $\chi^2/\text{NDF}: 303392.6/38$

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.357 ± 0.021 $\chi^2/\text{NDF}: 2543.0/15$

Left Out: -0.971 ± 0.041 $\chi^2/\text{NDF}: 1239.0/2$

Right Out: 0.324 ± 0.020 $\chi^2/\text{NDF}: 1558.9/17$

Left In: -2.315 ± 0.051 $\chi^2/\text{NDF}: 22.0/1$

Left: -1.507 ± 0.032 $\chi^2/\text{NDF}: 1680.8/4$

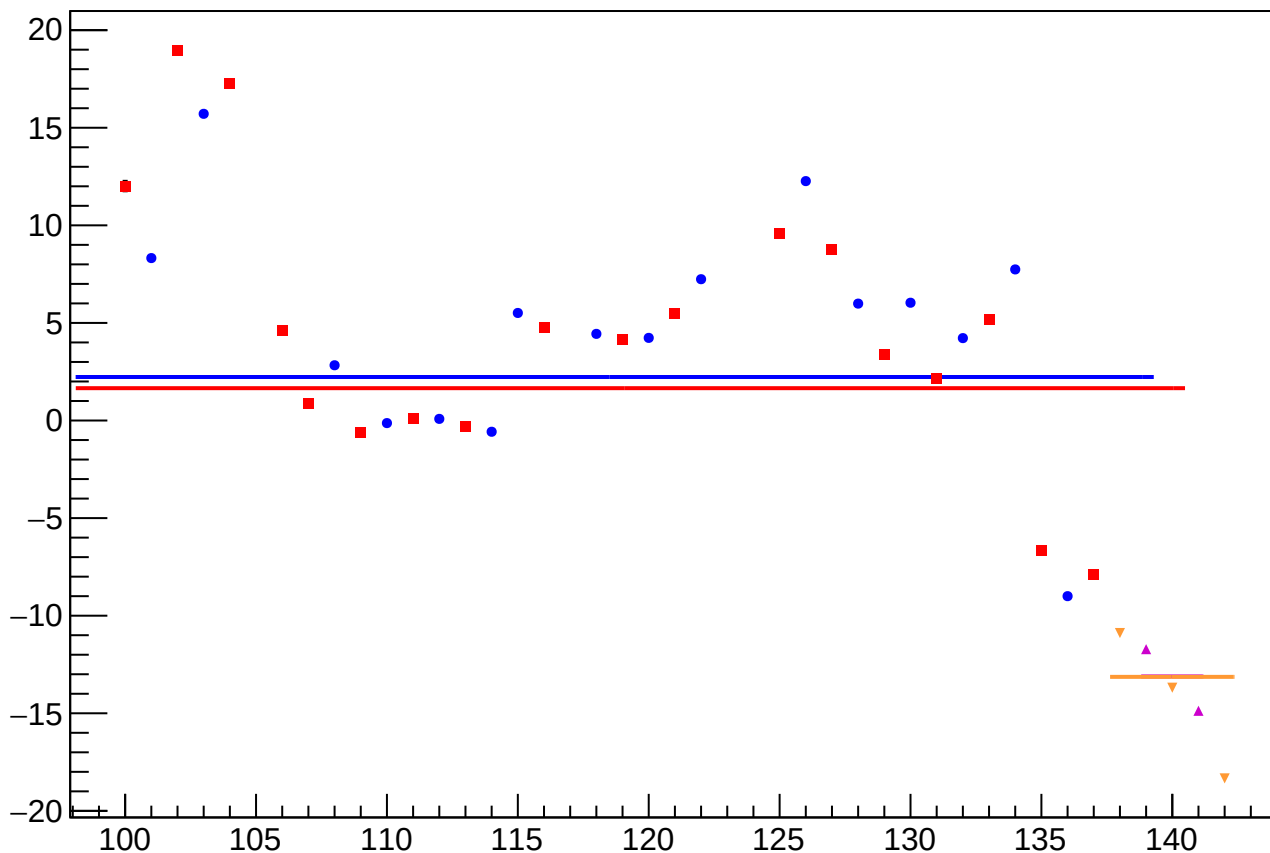
Right: 0.340 ± 0.014 $\chi^2/\text{NDF}: 4103.4/33$

In: -0.019 ± 0.019 $\chi^2/\text{NDF}: 4938.3/17$

Out: 0.085 ± 0.018 $\chi^2/\text{NDF}: 3594.3/20$

All: 0.037 ± 0.013 $\chi^2/\text{NDF}: 8548.6/38$

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 2.229+/-0.022 χ^2/NDF : 69187.1/15

Left Out: -13.134+/-0.048 χ^2/NDF : 2787.4/2

Right Out: 1.657+/-0.020 χ^2/NDF : 72797.4/17

Left In: -13.112+/-0.052 χ^2/NDF : 909.9/1

Left: -13.124+/-0.035 χ^2/NDF : 3697.3/4

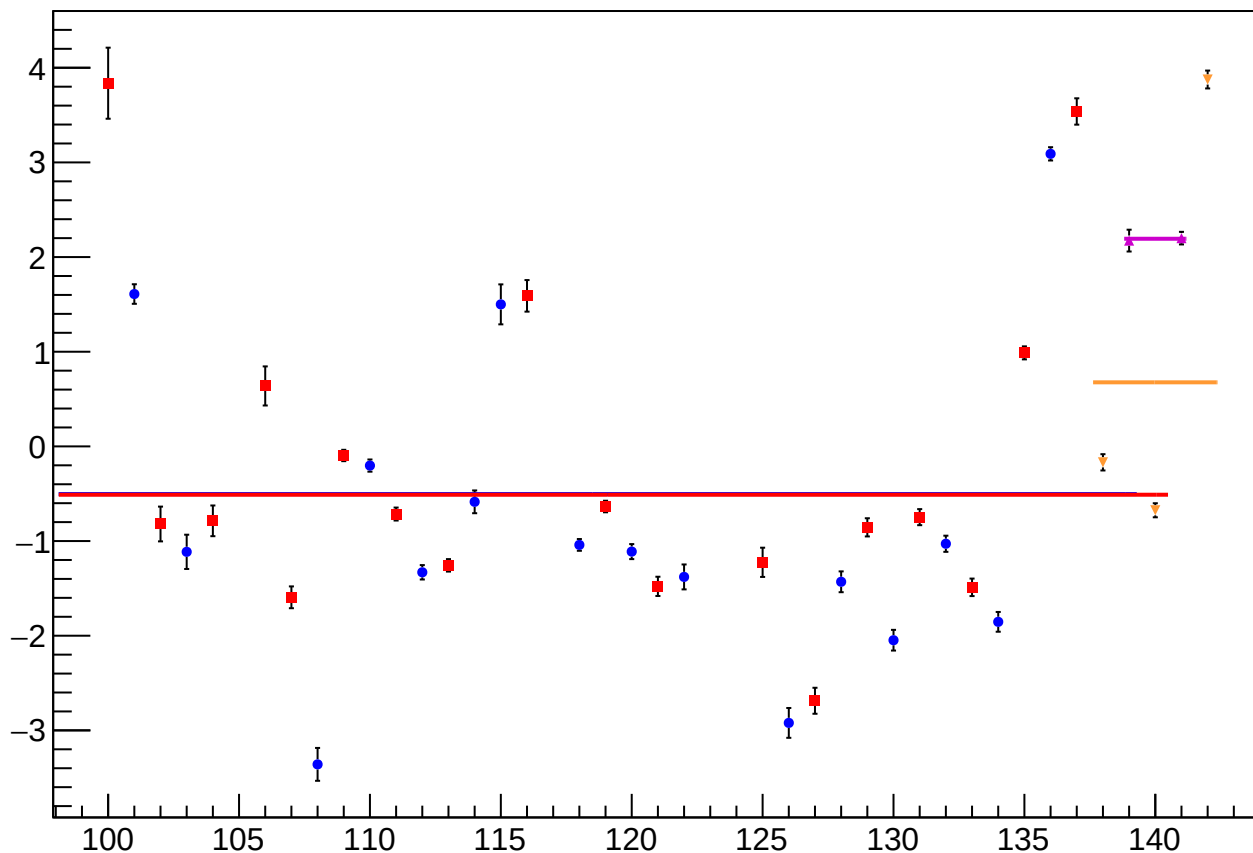
Right: 1.919+/-0.015 χ^2/NDF : 142343.2/33

In: -0.147+/-0.020 χ^2/NDF : 143663.8/17

Out: -0.586+/-0.019 χ^2/NDF : 154921.5/20

All: -0.384+/-0.014 χ^2/NDF : 298834.9/38

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.504 ± 0.024 χ^2/NDF : 4447.2/15

Left Out: 0.677 ± 0.048 χ^2/NDF : 1576.7/2

Right Out: -0.511 ± 0.022 χ^2/NDF : 2424.0/17

Left In: 2.193 ± 0.058 χ^2/NDF : 0.0/1

Left: 1.303 ± 0.037 χ^2/NDF : 1983.9/4

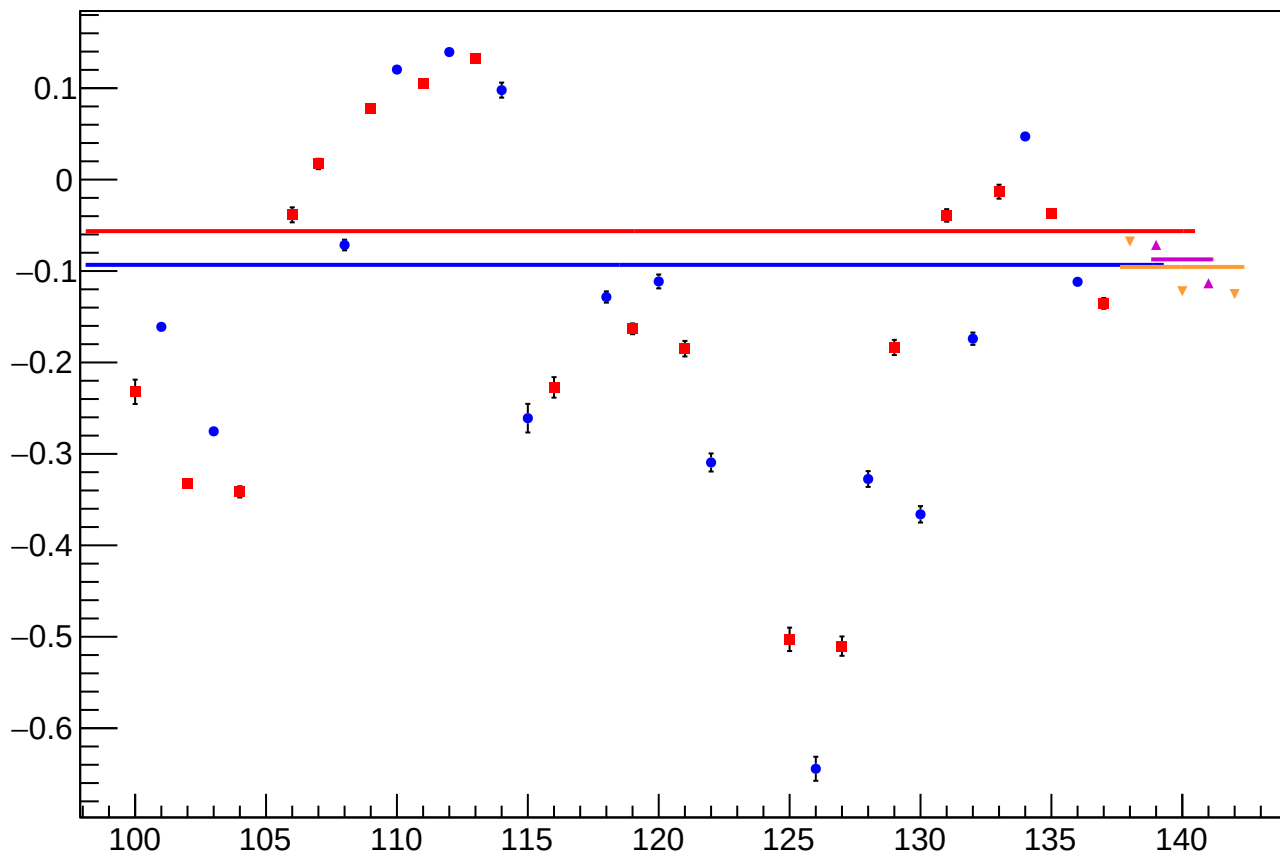
Right: -0.507 ± 0.016 χ^2/NDF : 6871.2/33

In: -0.113 ± 0.022 χ^2/NDF : 6322.6/17

Out: -0.303 ± 0.020 χ^2/NDF : 4499.2/20

All: -0.215 ± 0.015 χ^2/NDF : 10862.3/38

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.093+/-0.001 χ^2/NDF : 11742.4/15

Left Out: -0.096+/-0.002 χ^2/NDF :197.3/2

Right Out: -0.056+/-0.001 χ^2/NDF : 14457.4/17

Left In: -0.087+/-0.002 χ^2/NDF :108.4/1

Left: -0.091+/-0.001 χ^2/NDF : 314.5/4

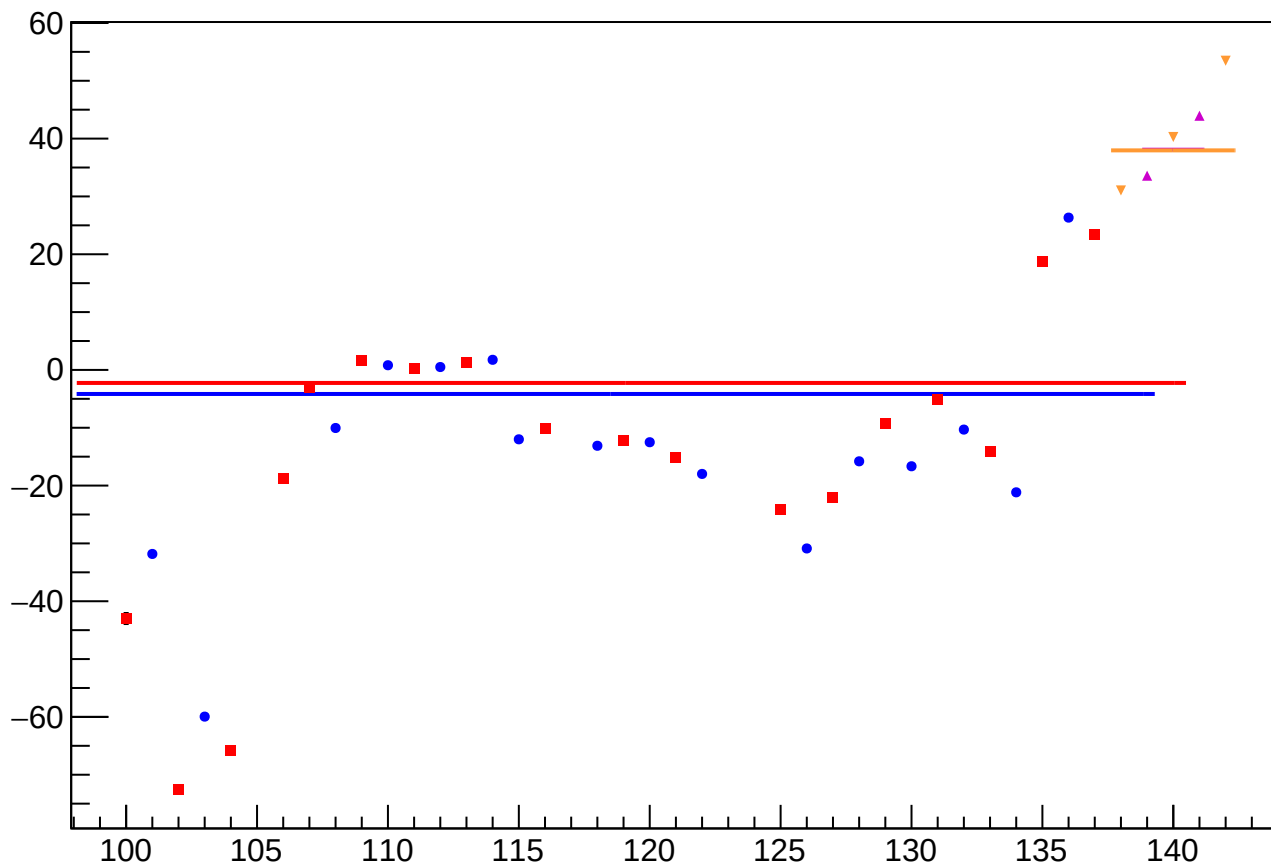
Right: -0.073+/-0.001 χ^2/NDF : 26566.6/33

In: -0.091+/-0.001 χ^2/NDF :11857.0/17

Out: -0.068+/-0.001 χ^2/NDF :14928.8/20

All: -0.079+/-0.001 χ^2/NDF : 26995.3/38

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.159 ± 0.054 $\chi^2/\text{NDF}: 75420.4/15$

Left Out: 37.965 ± 0.137 $\chi^2/\text{NDF}: 3199.2/2$

Right Out: -2.251 ± 0.046 $\chi^2/\text{NDF}: 79637.5/17$

Left In: 38.079 ± 0.148 $\chi^2/\text{NDF}: 1208.5/1$

Left: 38.018 ± 0.100 $\chi^2/\text{NDF}: 4408.0/4$

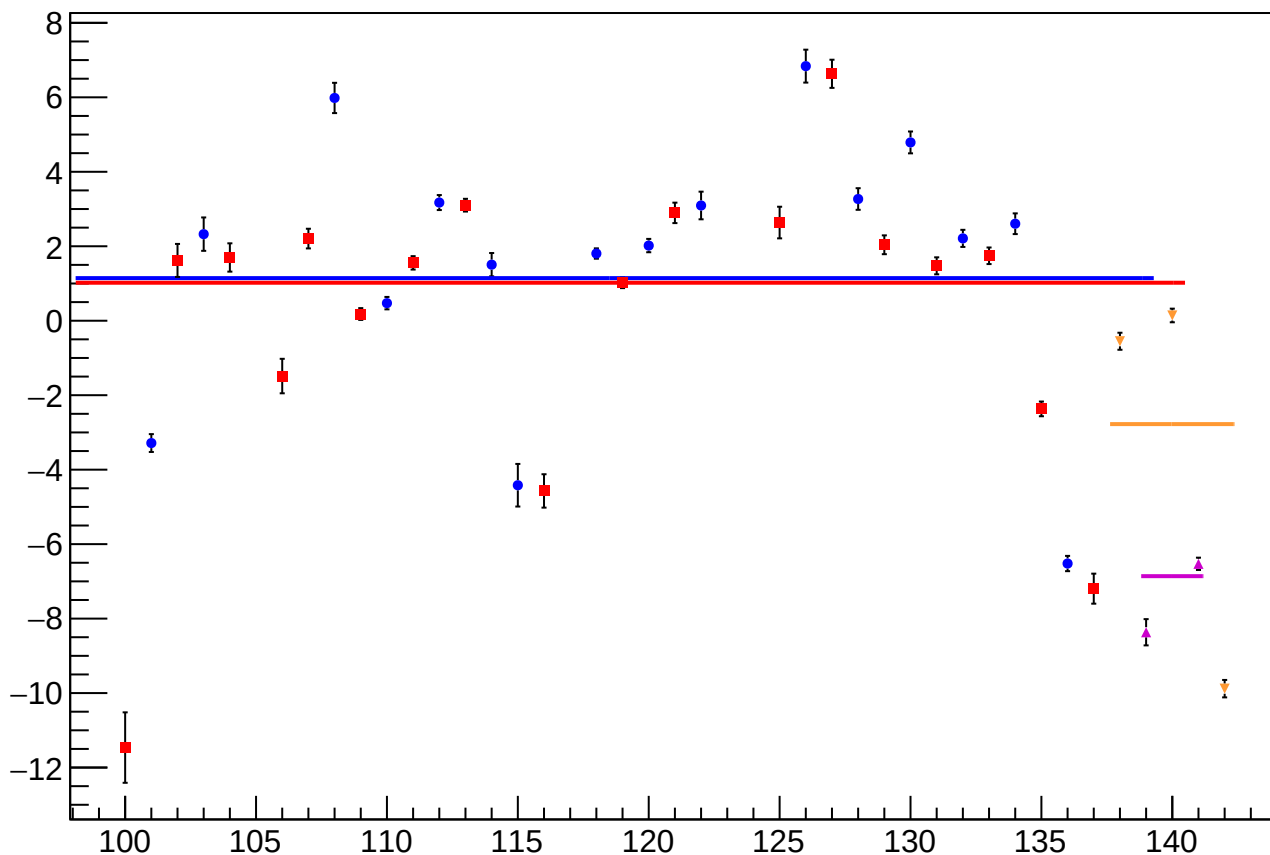
Right: -3.046 ± 0.035 $\chi^2/\text{NDF}: 155775.7/33$

In: 0.878 ± 0.051 $\chi^2/\text{NDF}: 148584.1/17$

Out: 1.813 ± 0.044 $\chi^2/\text{NDF}: 160202.9/20$

All: 1.419 ± 0.033 $\chi^2/\text{NDF}: 308981.1/38$

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.144 $\pm$ 0.060 χ^2 /NDF: 2595.3/15

Left Out: -2.776 $\pm$ 0.122 χ^2 /NDF:1269.6/2

Right Out: 1.021 $\pm$ 0.057 χ^2 /NDF: 1591.2/17

Left In: -6.860 $\pm$ 0.150 χ^2 /NDF:22.3/1

Left: -4.405 $\pm$ 0.095 χ^2 /NDF: 1739.0/4

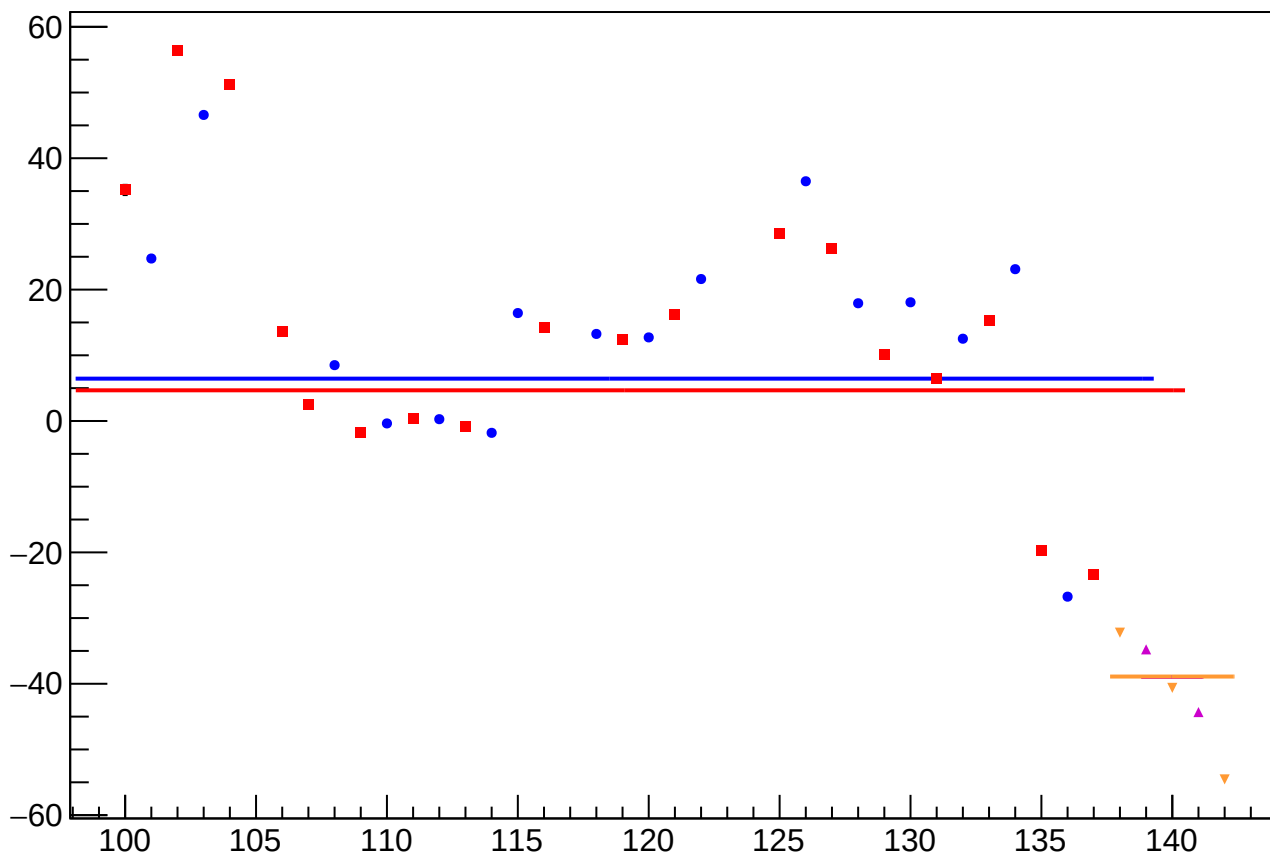
Right: 1.079 $\pm$ 0.041 χ^2 /NDF: 4188.7/33

In: 0.033 $\pm$ 0.056 χ^2 /NDF:5077.9/17

Out: 0.338 $\pm$ 0.052 χ^2 /NDF:3655.3/20

All: 0.197 $\pm$ 0.038 χ^2 /NDF: 8749.3/38

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.448+/-0.065 χ^2/NDF : 70815.1/15

Left Out: -38.900+/-0.142 χ^2/NDF : 2892.2/2

Right Out: 4.671+/-0.059 χ^2/NDF : 74420.3/17

Left In: -38.970+/-0.153 χ^2/NDF : 960.4/1

Left: -38.932+/-0.104 χ^2/NDF : 3852.7/4

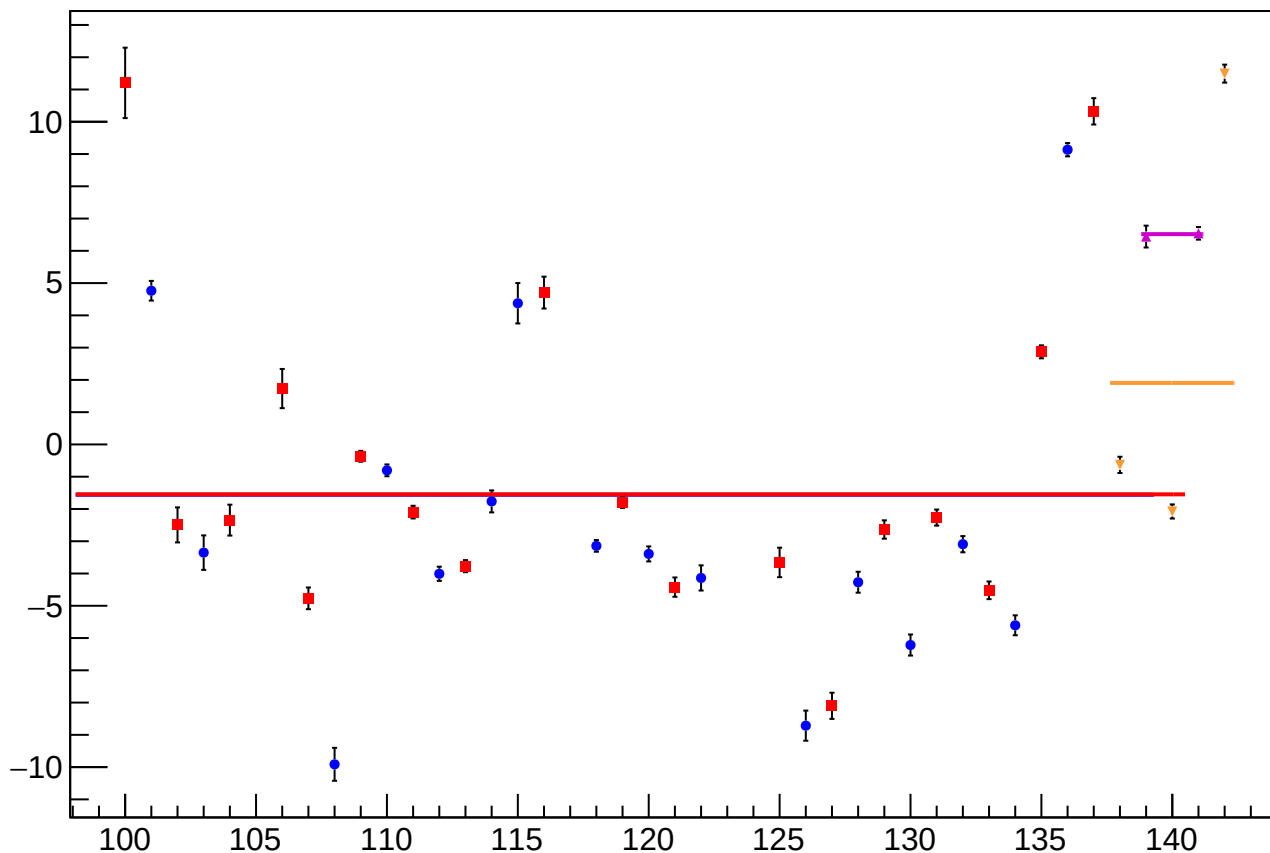
Right: 5.475+/-0.044 χ^2/NDF : 145645.8/33

In: -0.480+/-0.060 χ^2/NDF : 146507.9/17

Out: -1.739+/-0.054 χ^2/NDF : 157515.0/20

All: -1.167+/-0.040 χ^2/NDF : 304265.1/38

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.558 ± 0.069 $\chi^2/\text{NDF}: 4543.1/15$

Left Out: 1.907 ± 0.142 $\chi^2/\text{NDF}: 1614.5/2$

Right Out: -1.547 ± 0.064 $\chi^2/\text{NDF}: 2470.1/17$

Left In: 6.517 ± 0.170 $\chi^2/\text{NDF}: 0.1/1$

Left: 3.809 ± 0.109 $\chi^2/\text{NDF}: 2048.6/4$

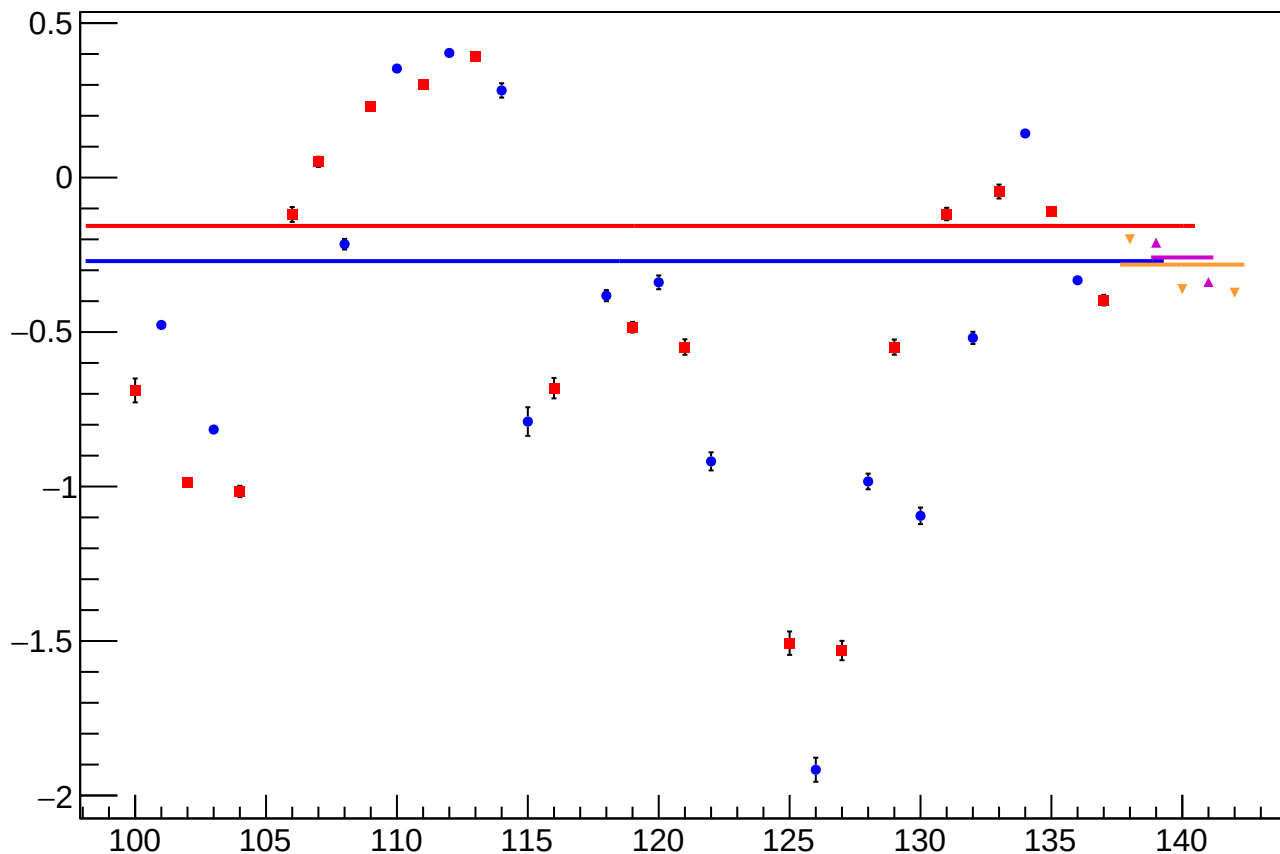
Right: -1.552 ± 0.047 $\chi^2/\text{NDF}: 7013.2/33$

In: -0.405 ± 0.064 $\chi^2/\text{NDF}: 6486.6/17$

Out: -0.957 ± 0.059 $\chi^2/\text{NDF}: 4574.1/20$

All: -0.705 ± 0.043 $\chi^2/\text{NDF}: 11101.0/38$

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.270 ± 0.004 $\chi^2/\text{NDF}: 12096.8/15$

Left Out: -0.282 ± 0.006 $\chi^2/\text{NDF}: 203.4/2$

Right Out: -0.156 ± 0.004 $\chi^2/\text{NDF}: 15030.0/17$

Left In: -0.259 ± 0.006 $\chi^2/\text{NDF}: 115.5/1$

Left: -0.270 ± 0.004 $\chi^2/\text{NDF}: 327.0/4$

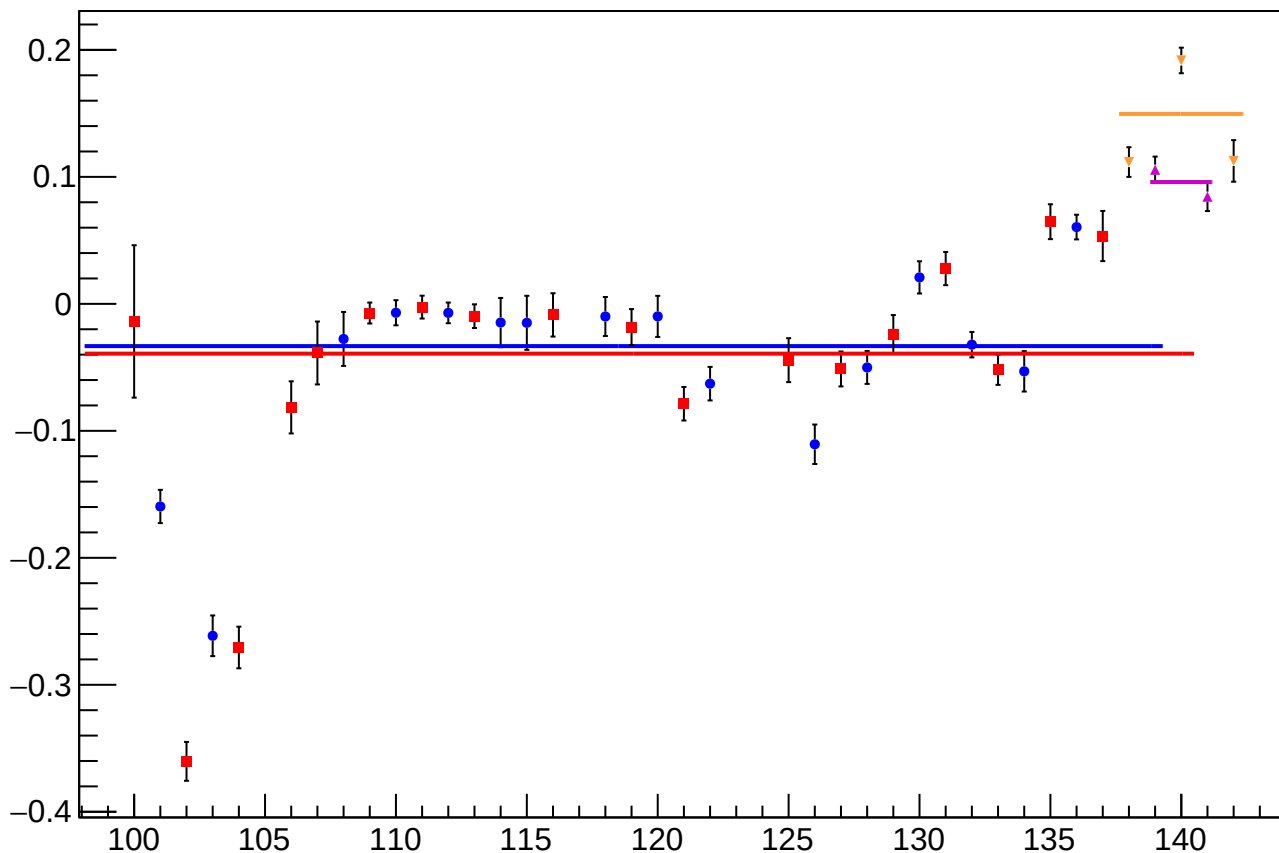
Right: -0.208 ± 0.003 $\chi^2/\text{NDF}: 27539.3/33$

In: -0.266 ± 0.003 $\chi^2/\text{NDF}: 12215.1/17$

Out: -0.194 ± 0.003 $\chi^2/\text{NDF}: 15561.7/20$

All: -0.228 ± 0.002 $\chi^2/\text{NDF}: 28021.9/38$

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.033 ± 0.003 $\chi^2/\text{NDF}: 463.5/15$

Left Out: 0.150 ± 0.007 $\chi^2/\text{NDF}: 33.1/2$

Right Out: -0.039 ± 0.003 $\chi^2/\text{NDF}: 807.6/17$

Left In: 0.096 ± 0.008 $\chi^2/\text{NDF}: 1.9/1$

Left: 0.125 ± 0.005 $\chi^2/\text{NDF}: 62.1/4$

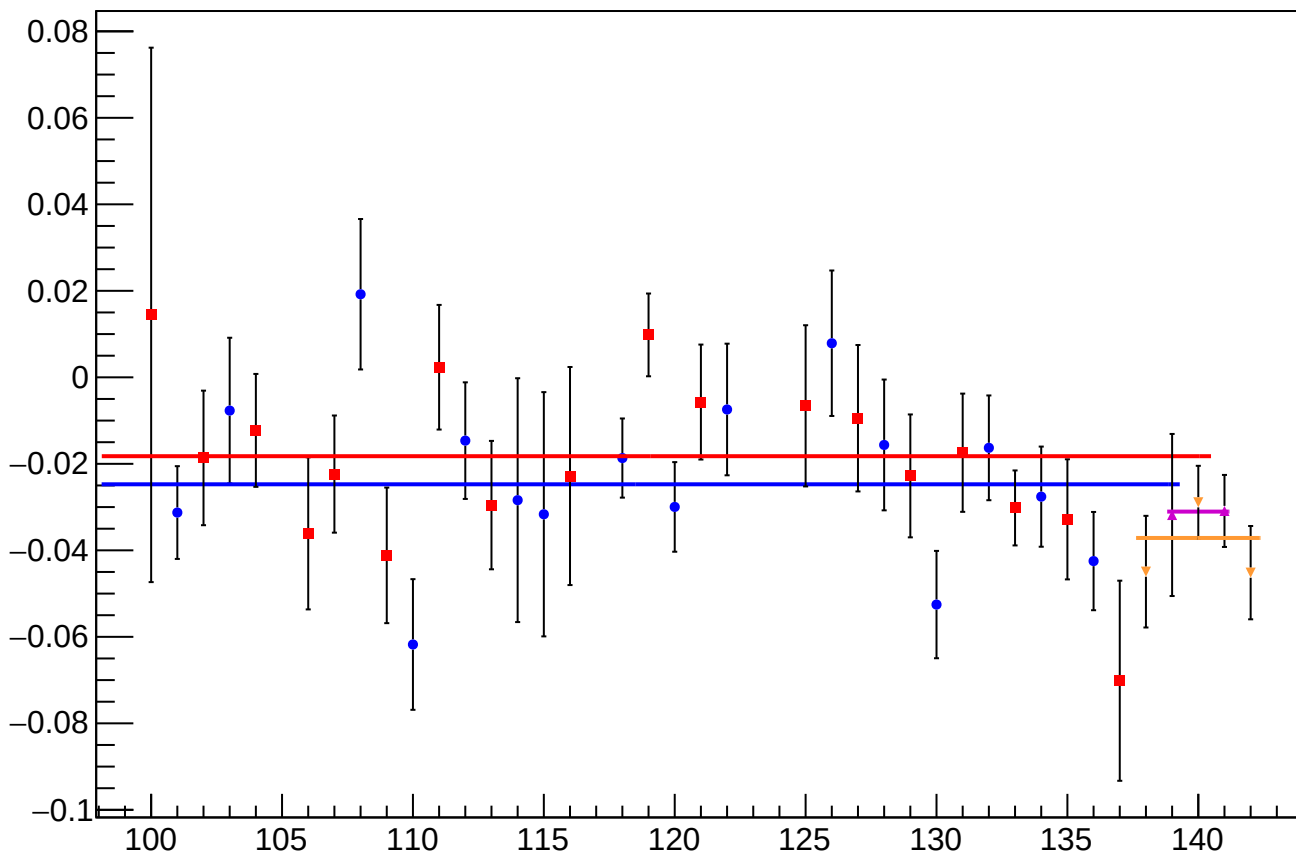
Right: -0.036 ± 0.002 $\chi^2/\text{NDF}: 1272.8/33$

In: -0.014 ± 0.003 $\chi^2/\text{NDF}: 708.3/17$

Out: -0.006 ± 0.003 $\chi^2/\text{NDF}: 1455.9/20$

All: -0.010 ± 0.002 $\chi^2/\text{NDF}: 2167.6/38$

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.025 ± 0.003 χ^2/NDF : 28.5/15

Left Out: -0.037 ± 0.006 χ^2/NDF : 1.9/2

Right Out: -0.018 ± 0.003 χ^2/NDF : 24.7/17

Left In: -0.031 ± 0.008 χ^2/NDF : 0.0/1

Left: -0.035 ± 0.005 χ^2/NDF : 2.3/4

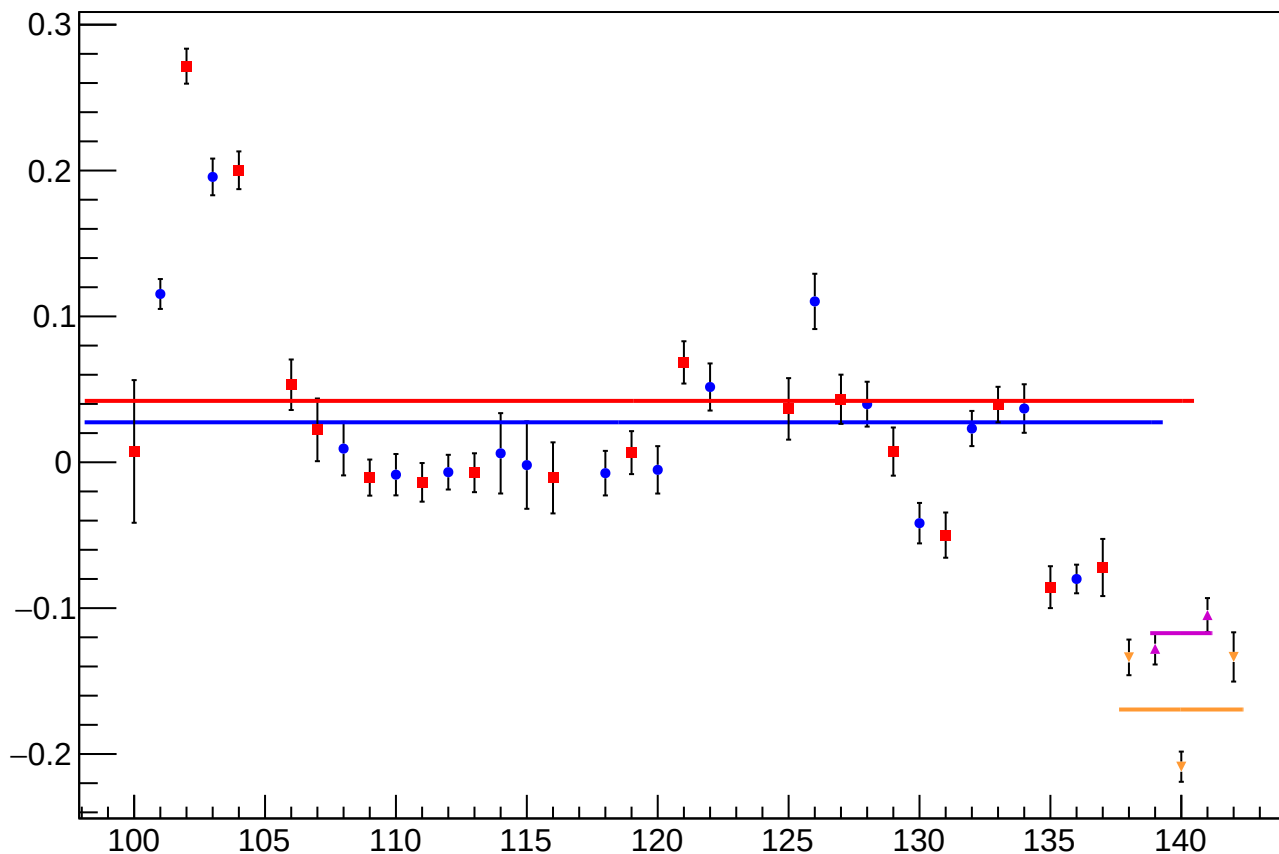
Right: -0.022 ± 0.002 χ^2/NDF : 55.1/33

In: -0.026 ± 0.003 χ^2/NDF : 29.1/17

Out: -0.023 ± 0.003 χ^2/NDF : 34.3/20

All: -0.024 ± 0.002 χ^2/NDF : 63.9/38

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.027 ± 0.004 $\chi^2/\text{NDF}: 446.1/15$

Left Out: -0.169 ± 0.007 $\chi^2/\text{NDF}: 27.4/2$

Right Out: 0.042 ± 0.004 $\chi^2/\text{NDF}: 733.2/17$

Left In: -0.117 ± 0.008 $\chi^2/\text{NDF}: 2.1/1$

Left: -0.146 ± 0.005 $\chi^2/\text{NDF}: 53.7/4$

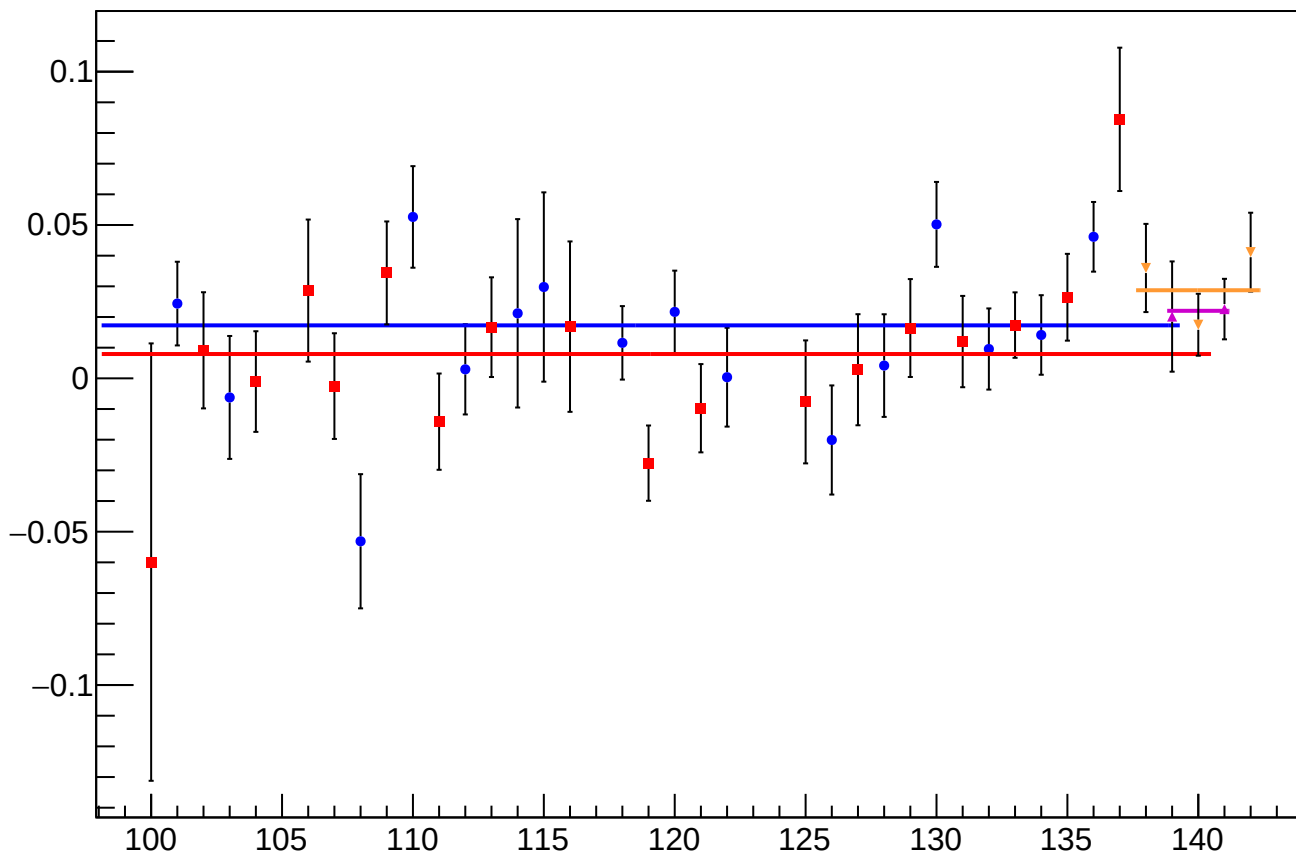
Right: 0.035 ± 0.003 $\chi^2/\text{NDF}: 1187.6/33$

In: 0.003 ± 0.003 $\chi^2/\text{NDF}: 725.8/17$

Out: -0.001 ± 0.003 $\chi^2/\text{NDF}: 1455.5/20$

All: 0.001 ± 0.002 $\chi^2/\text{NDF}: 2182.2/38$

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.004 χ^2 /NDF: 36.7/15

Left Out: 0.029 $\pm$ 0.007 χ^2 /NDF:2.4/2

Right Out: 0.008 $\pm$ 0.004 χ^2 /NDF: 31.4/17

Left In: 0.022 $\pm$ 0.009 χ^2 /NDF:0.0/1

Left: 0.026 $\pm$ 0.005 χ^2 /NDF: 2.8/4

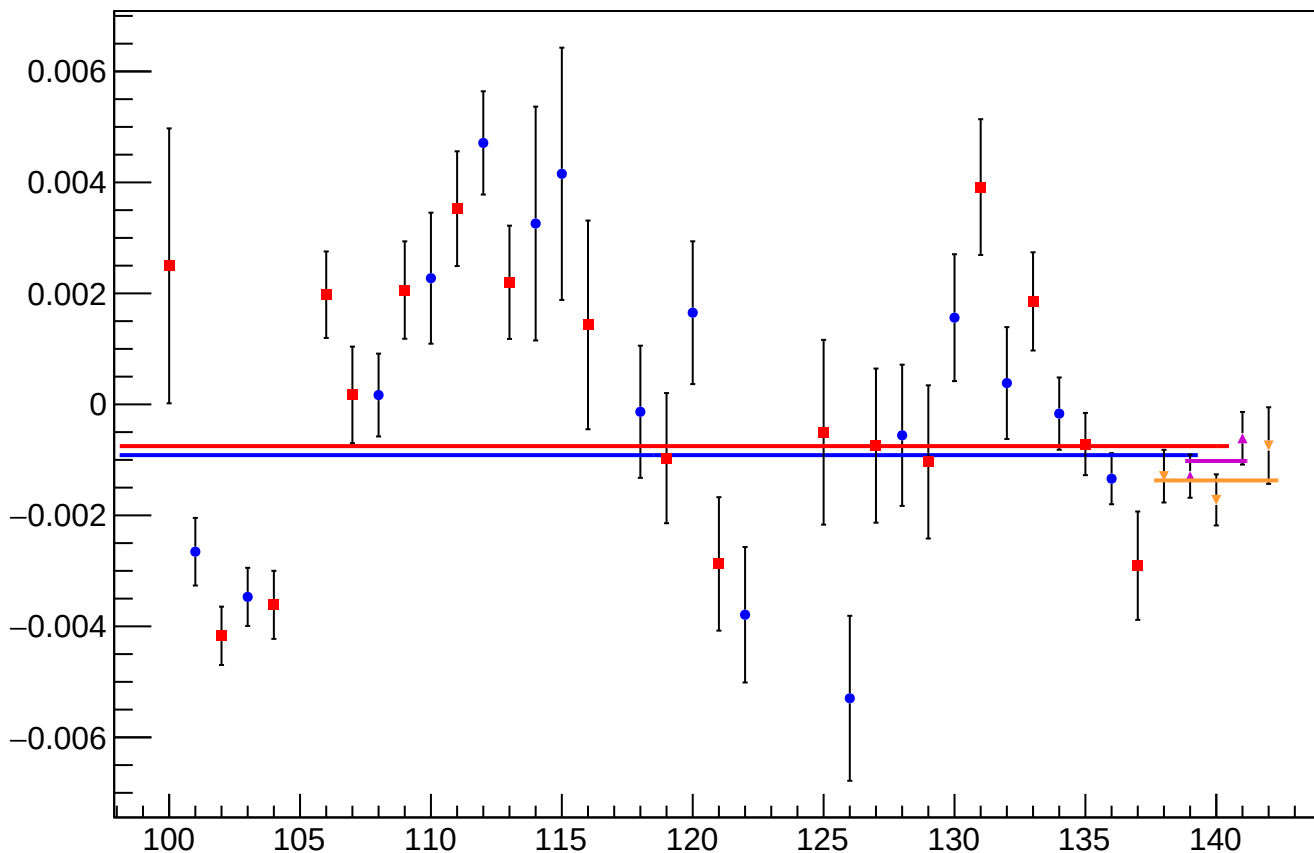
Right: 0.013 $\pm$ 0.003 χ^2 /NDF: 71.0/33

In: 0.018 $\pm$ 0.004 χ^2 /NDF:36.9/17

Out: 0.013 $\pm$ 0.003 χ^2 /NDF:40.6/20

All: 0.015 $\pm$ 0.002 χ^2 /NDF: 78.6/38

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.001 $\pm$ 0.000 χ^2 /NDF: 114.1/15

Left Out: -0.001 $\pm$ 0.000 χ^2 /NDF:1.4/2

Right Out: -0.001 $\pm$ 0.000 χ^2 /NDF: 147.6/17

Left In: -0.001 $\pm$ 0.000 χ^2 /NDF:1.2/1

Left: -0.001 $\pm$ 0.000 χ^2 /NDF: 3.4/4

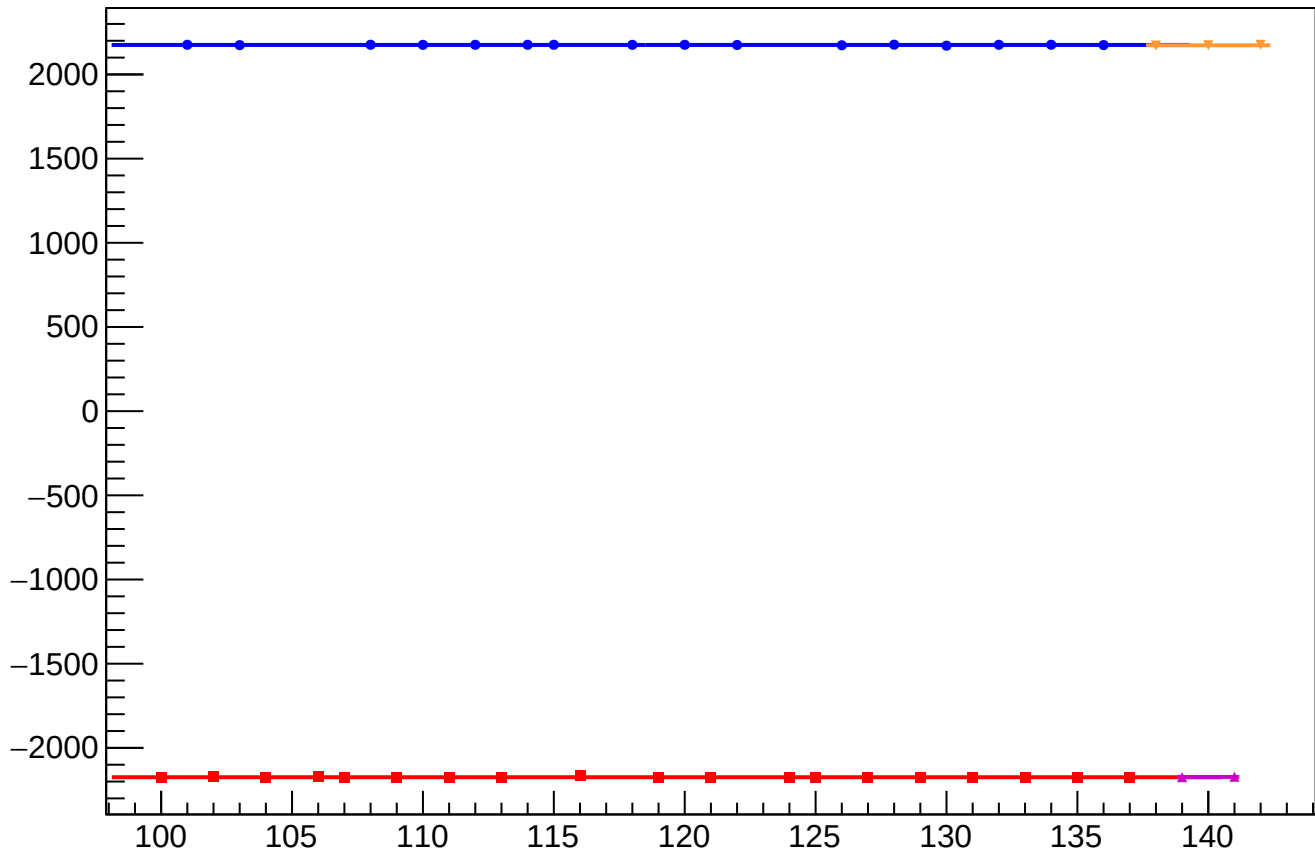
Right: -0.001 $\pm$ 0.000 χ^2 /NDF: 261.9/33

In: -0.001 $\pm$ 0.000 χ^2 /NDF:115.4/17

Out: -0.001 $\pm$ 0.000 χ^2 /NDF:151.9/20

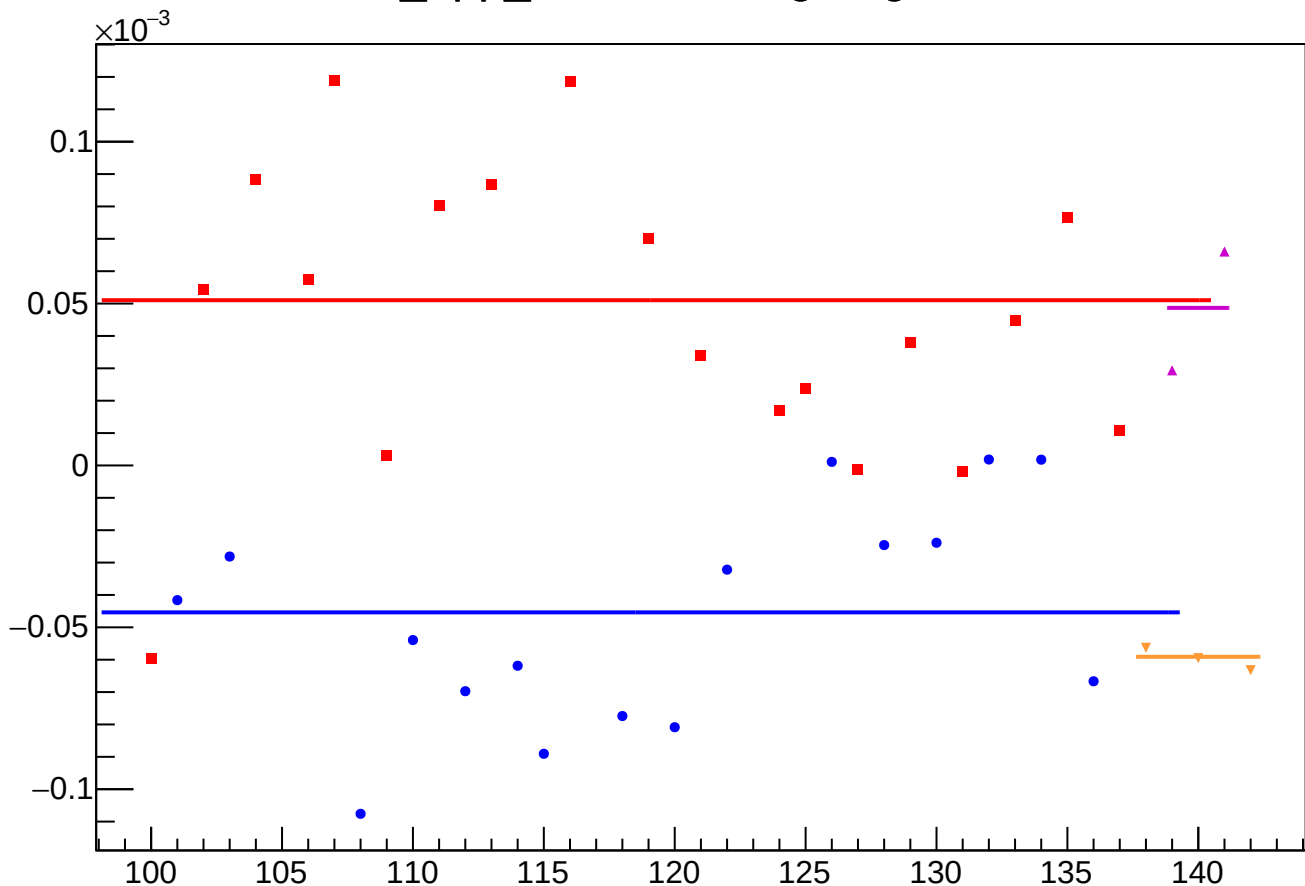
All: -0.001 $\pm$ 0.000 χ^2 /NDF: 267.3/38

HALLA_p_mean vs Slug, Sign Corrected



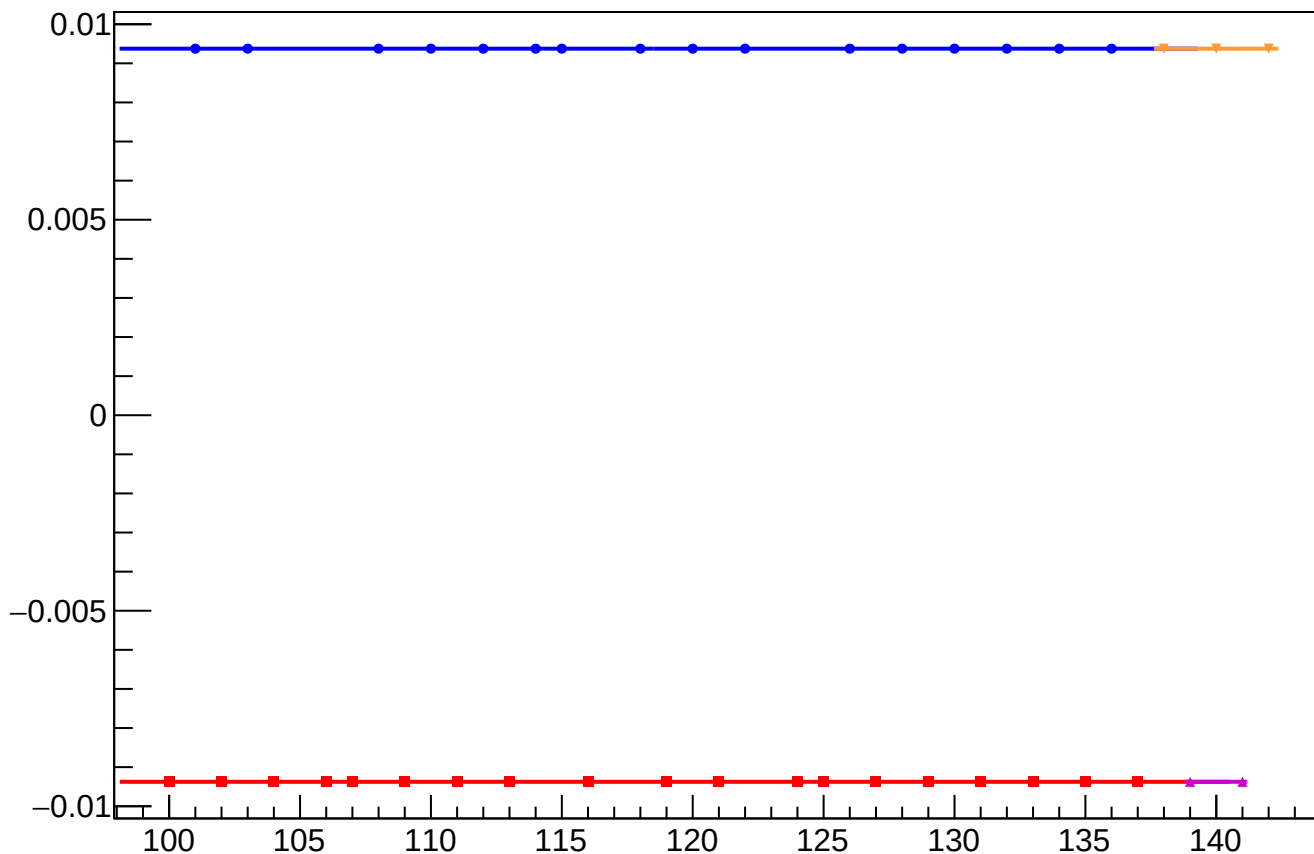
Right In: 2175.201+/-0.000 χ^2/NDF : 1765724072923660180937051331362816.0/15
 Left Out: 2173.121+/-0.000 χ^2/NDF : 496330976300862306698720924663808.0/2
 Right Out: -2174.324+/-0.000 χ^2/NDF : 5542239415681046928723527201718272.0/18
 Left In: -2172.503+/-0.000 χ^2/NDF : 254481742495258749255308678266880.0/1
 All: 16.450+/-0.000 χ^2/NDF : 8954041049645

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000	χ^2/NDF : 713132081378122377723904.0/15	Left: -0.000+/-0.000	χ^2/NDF : 11834605563216348
Left Out: -0.000+/-0.000	χ^2/NDF : 1409043029221994135552.0/2	Right: 0.000+/-0.000	χ^2/NDF : 52193568733401849
Right Out: 0.000+/-0.000	χ^2/NDF : 1011955910720647101153280.0/18	In: -0.000+/-0.000	χ^2/NDF : 203622168289672510
Left In: 0.000+/-0.000	χ^2/NDF : 59434705802673032003584.0/1	Out: 0.000+/-0.000	χ^2/NDF : 303294797034315221
		All: 0.000+/-0.000	χ^2/NDF : 64611191734330

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.1/15

Left Out: 0.009+/-0.000 χ^2/NDF : 0.0/2

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/18

Left In: -0.009+/-0.000 χ^2/NDF : 0.0/1

Left: 0.001+/-0.000 χ^2/NDF : 339852764423075887

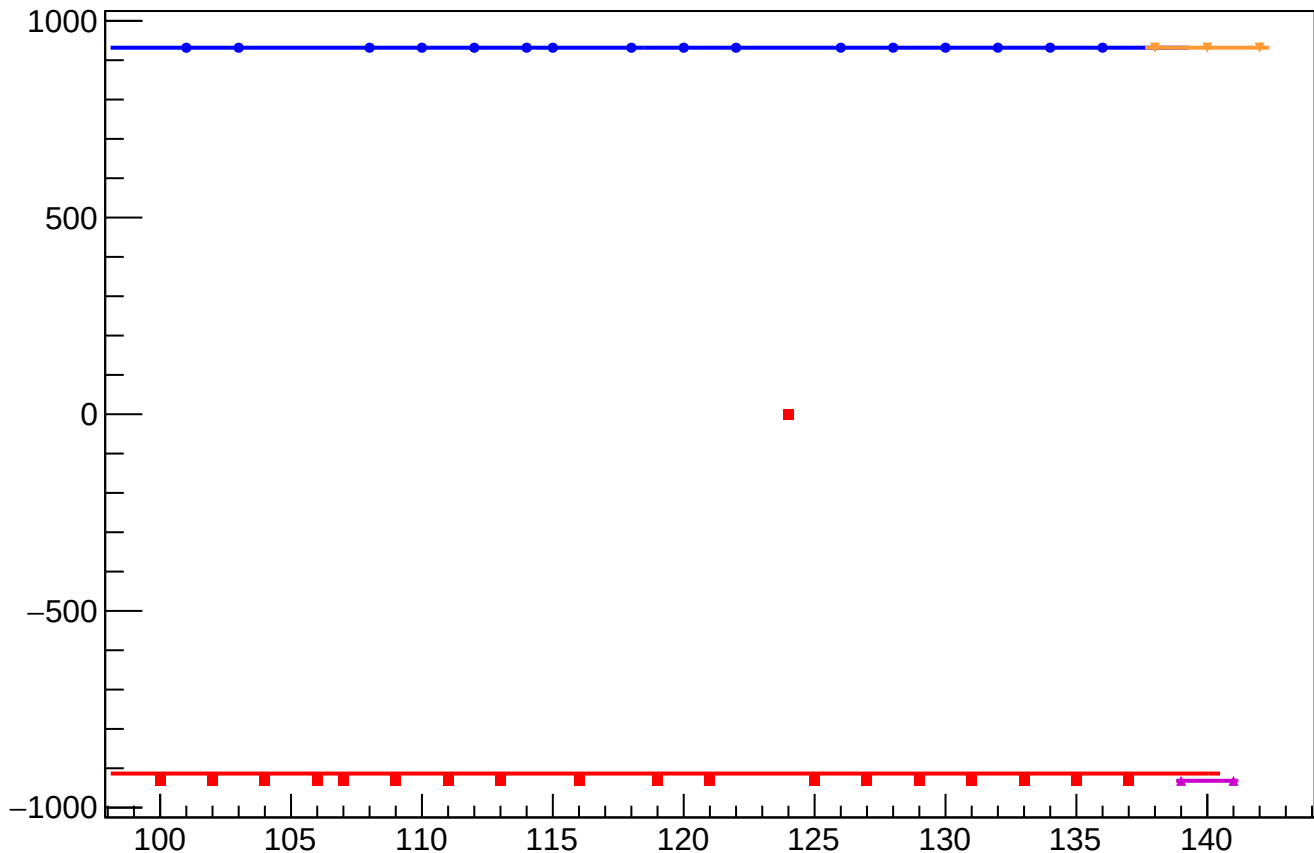
Right: -0.000+/-0.000 χ^2/NDF : 1321592160488695

In: 0.006+/-0.000 χ^2/NDF : 5022863051470577960

Out: -0.005+/-0.000 χ^2/NDF : 58540559362192546

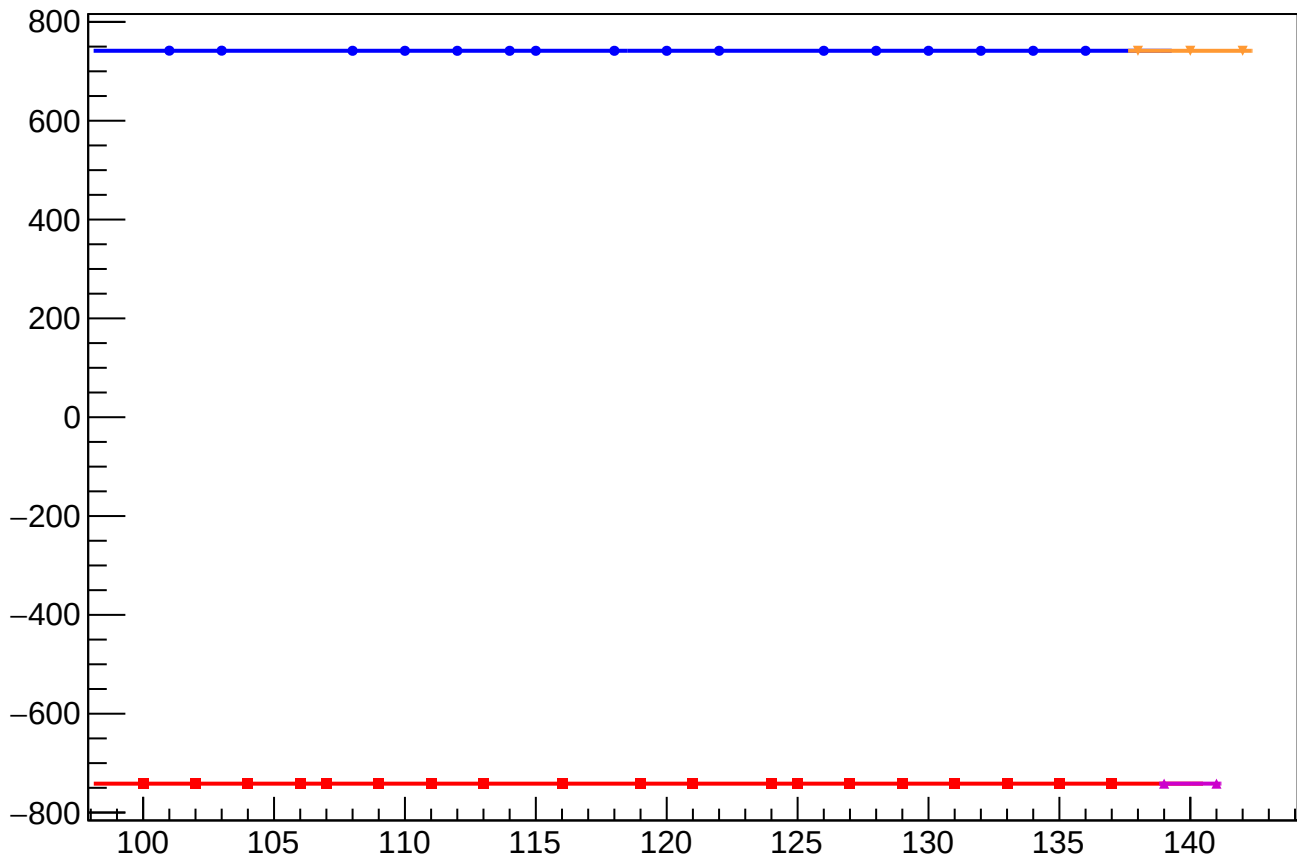
All: 0.000+/-0.000 χ^2/NDF : 16645574841605

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



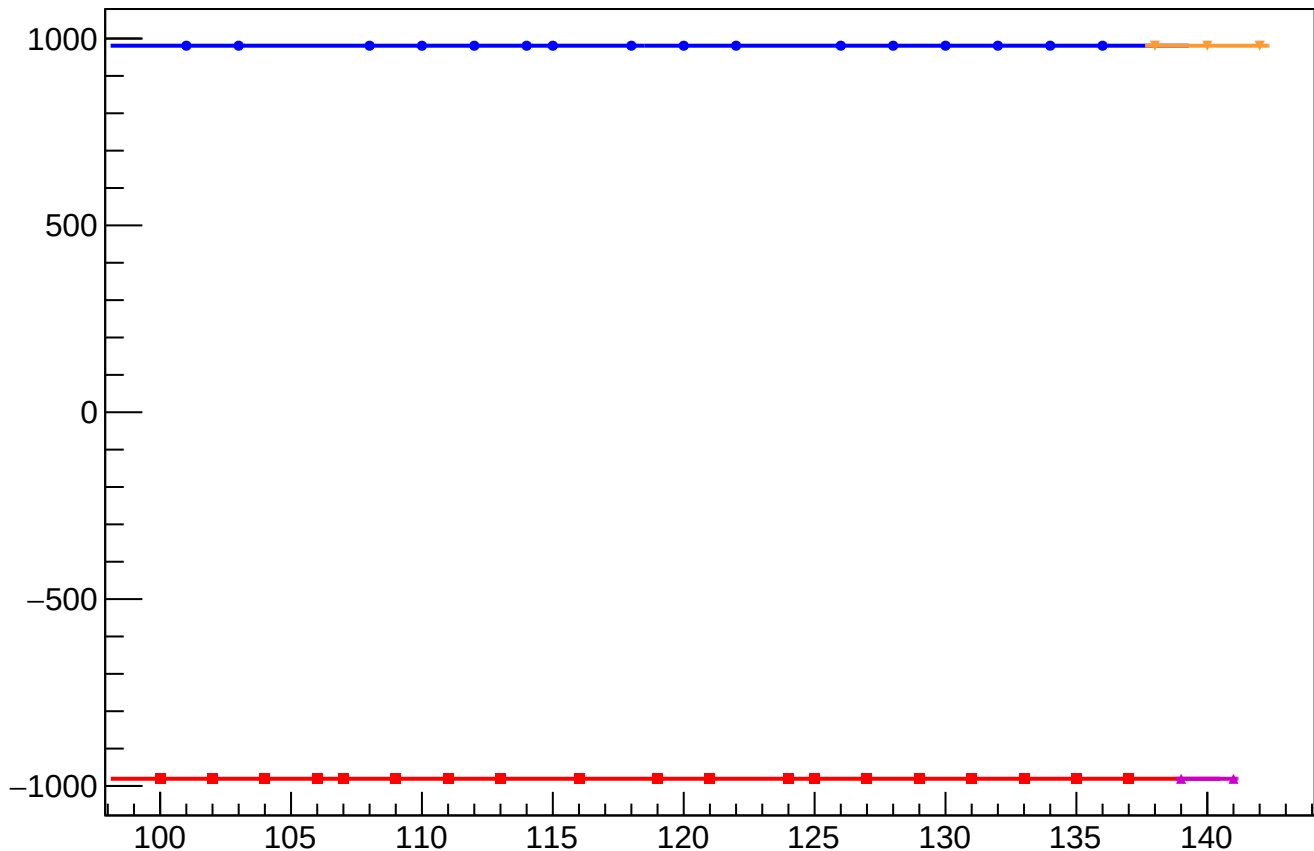
Right In: 931.769+/-0.000	χ^2/NDF : 2757217223595001187167685836800.0/15	Left: 86.019+/-0.000	χ^2/NDF : 33578442153151608
Left Out: 931.872+/-0.000	χ^2/NDF : 12612703911818218487997792256.0/2	Right: -4.335+/-0.000	χ^2/NDF : 1292705120140630
Right Out: -913.447+/-0.000	χ^2/NDF : 12765879635094435683491886518824337408.0/18	In: 572.440+/-0.000	χ^2/NDF : 49621875738626669
Left In: -931.872+/-0.000	χ^2/NDF : 1860169124753276056943722496.0/1	Out: -510.729+/-0.000	χ^2/NDF : 579784269893574
	All: 14.270+/-0.000		χ^2/NDF : 1631017809991

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



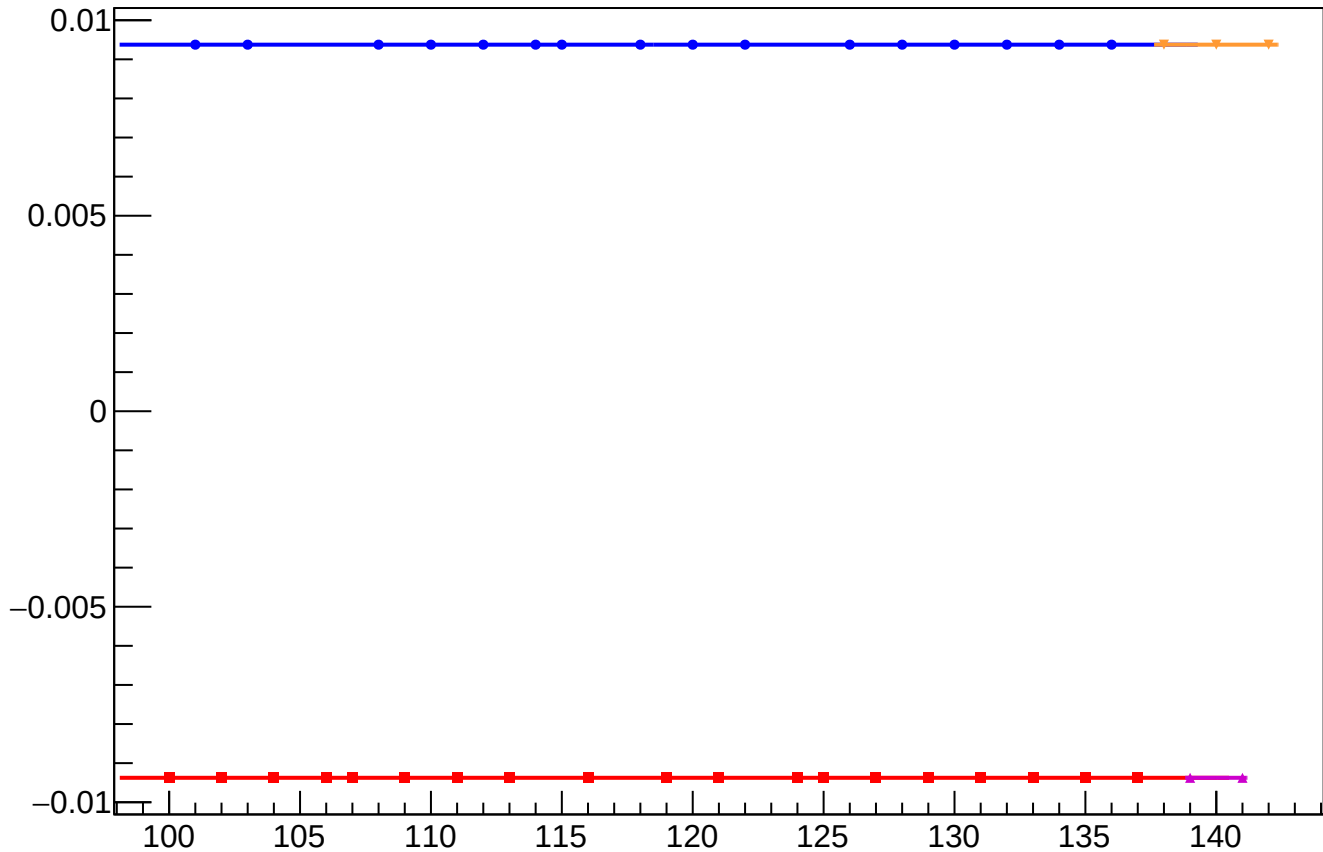
Right In: 741.569+/-0.000	χ^2/NDF : 6432951176127947061938899386368.0/15	Left: 68.447+/-0.000	χ^2/NDF : 21261806938856765
Left Out: 741.524+/-0.000	χ^2/NDF : 3093701975150737446366347264.0/2	Right: -10.851+/-0.000	χ^2/NDF : 826918104240998
Right Out: -741.577+/-0.000	χ^2/NDF : 7692263947892614711537477615616.0/18	In: 455.612+/-0.000	χ^2/NDF : 31425860429419990
Left In: -741.527+/-0.000	χ^2/NDF : 2011942202477731432821161984.0/1	Out: -417.908+/-0.000	χ^2/NDF : 366265024802203
		All: 5.477+/-0.000	χ^2/NDF : 1041483596381

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 980.804+/-0.000	χ^2/NDF : 933313276884807786774245933056.0/15	Left: 90.532+/-0.000	χ^2/NDF : 37194240682315414
Left Out: 980.762+/-0.000	χ^2/NDF : 1877059717284577989265195008.0/2	Right: -14.307+/-0.000	χ^2/NDF : 144638600880856
Right Out: -980.725+/-0.000	χ^2/NDF : 56040205617358336221662876270592.0/18	In: 602.593+/-0.000	χ^2/NDF : 54973676249487334
Left In: -980.762+/-0.000	χ^2/NDF : 420628192787965833493086208.0/1	Out: -552.654+/-0.000	χ^2/NDF : 640656289925674
		All: 7.281+/-0.000	χ^2/NDF : 1821732286158

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.1/15

Left Out: 0.009+/-0.000 χ^2/NDF : 0.0/2

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/18

Left In: -0.009+/-0.000 χ^2/NDF : 0.0/1

Left: 0.001+/-0.000 χ^2/NDF : 339852764423075887

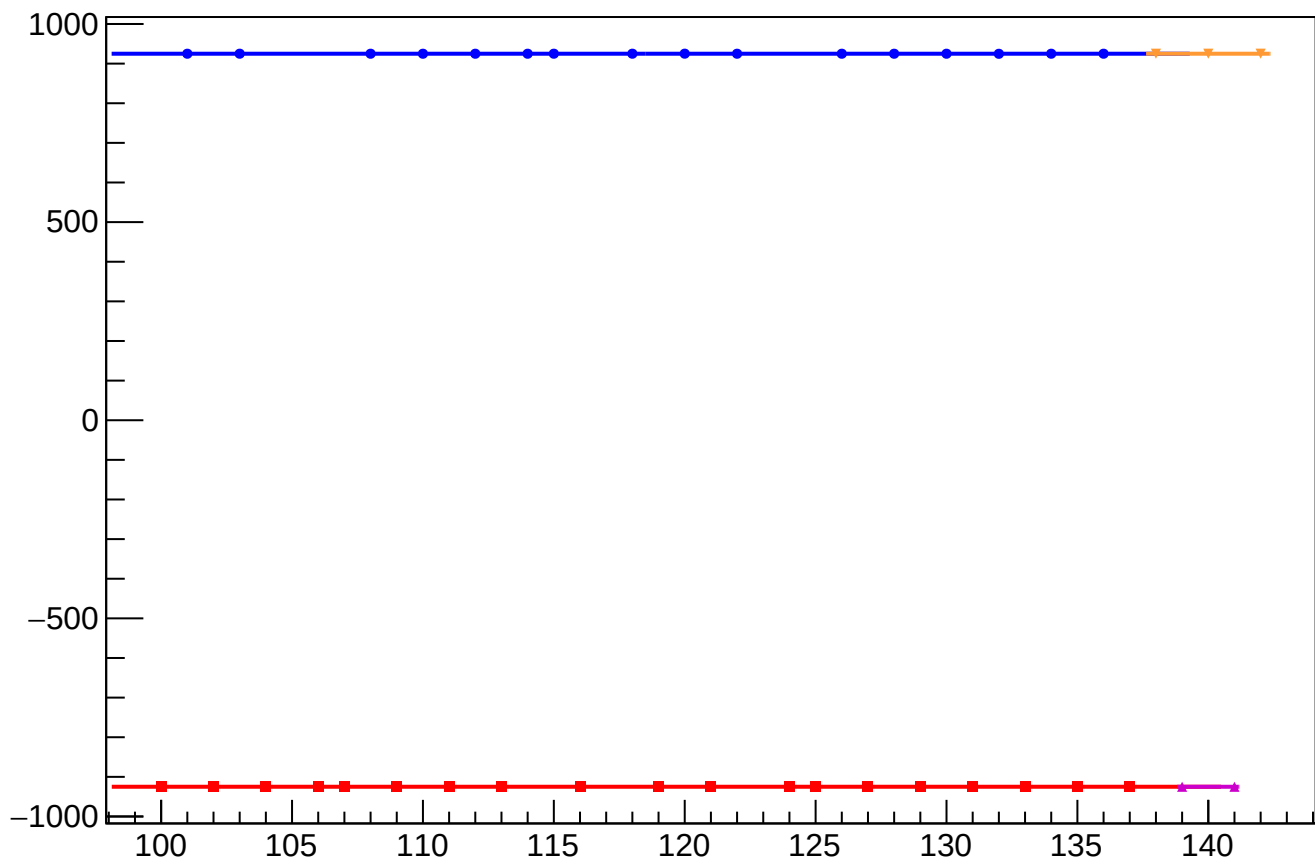
Right: -0.000+/-0.000 χ^2/NDF : 1321592160488695

In: 0.006+/-0.000 χ^2/NDF : 5022863051470577960

Out: -0.005+/-0.000 χ^2/NDF : 58540559362192546

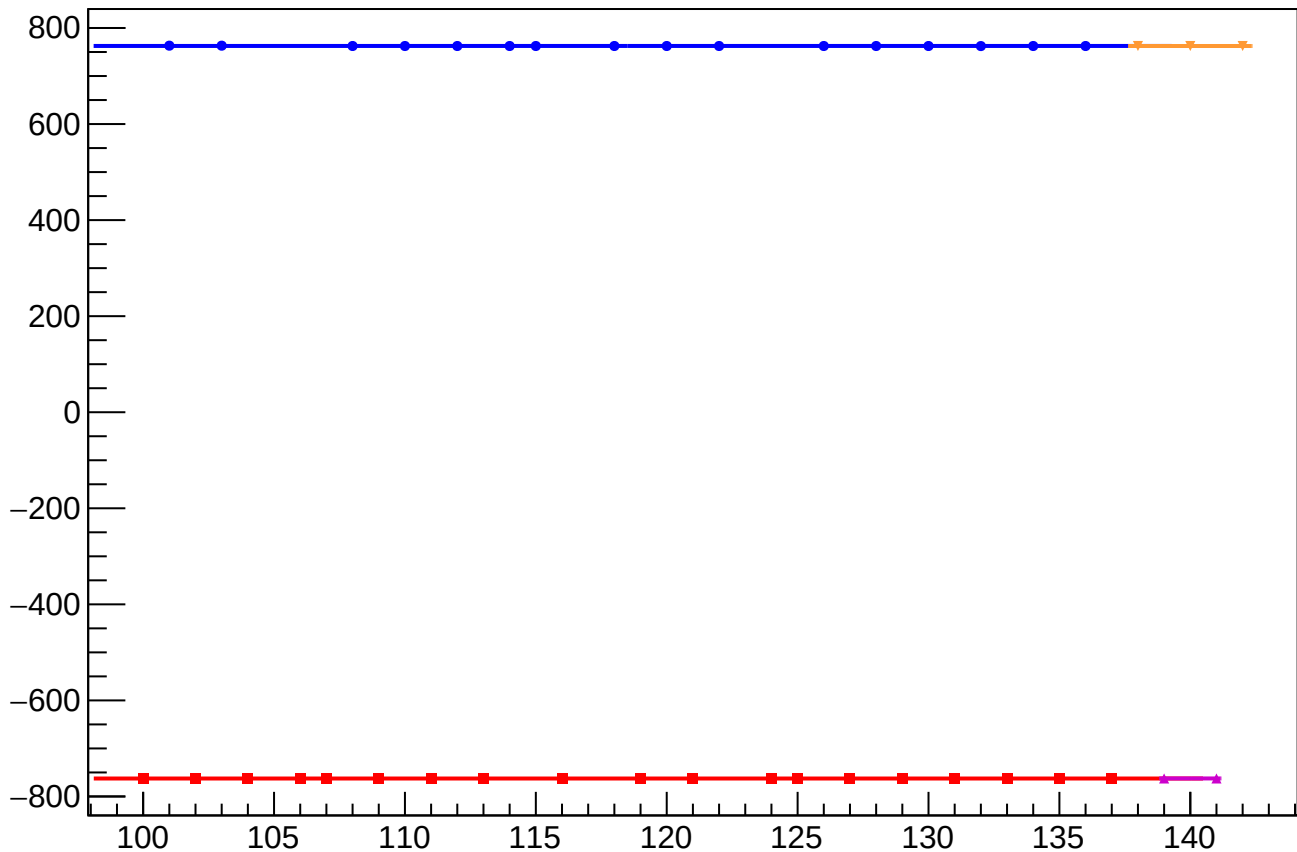
All: 0.000+/-0.000 χ^2/NDF : 16645574841605

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



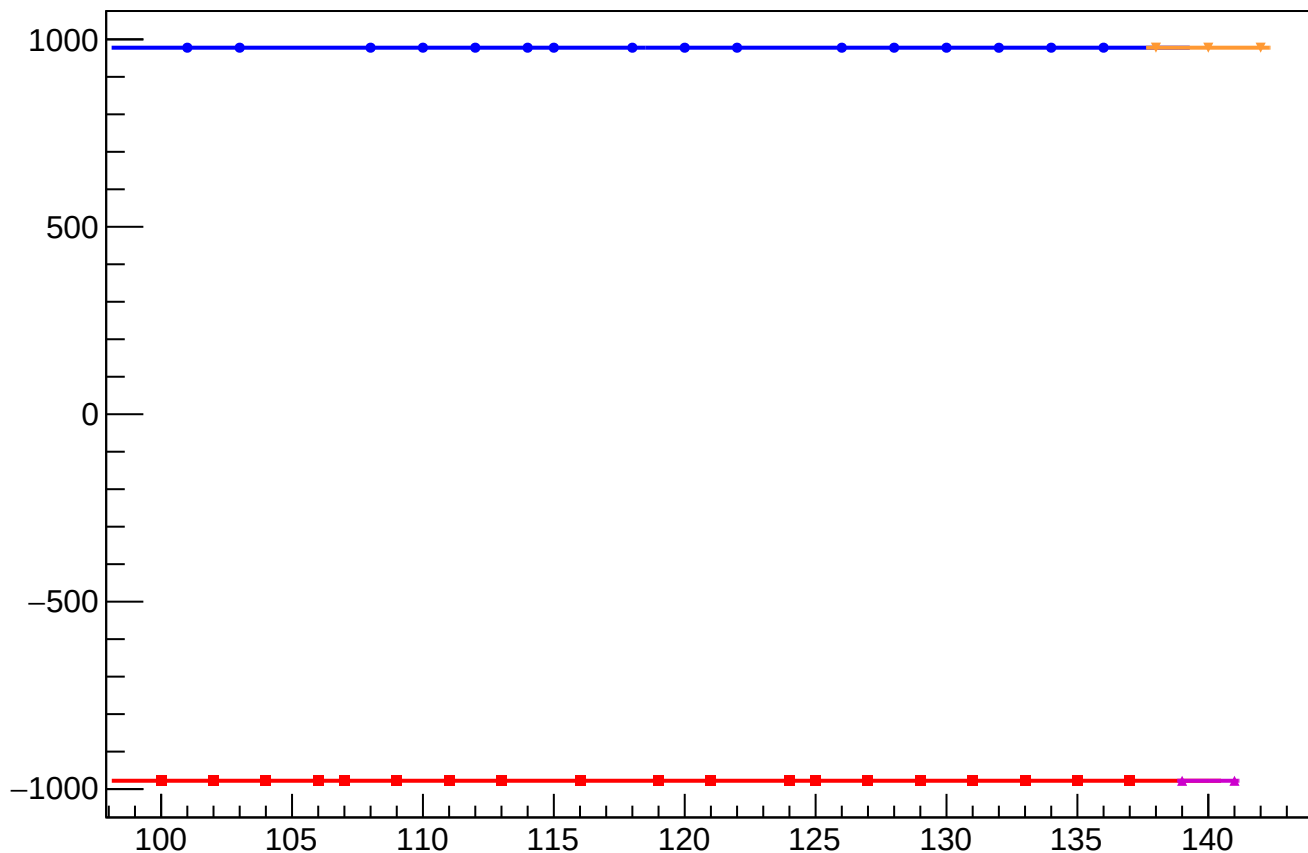
Right In: 924.966+/-0.000	χ^2/NDF : 2544370508087658800533037121536.0/15	Left: 85.376+/-0.000	χ^2/NDF : 33084470415650526
Left Out: 924.985+/-0.000	χ^2/NDF : 107260629340212240298046128128.0/2	Right: -13.534+/-0.000	χ^2/NDF : 128650155911450
Right Out: -924.974+/-0.000	χ^2/NDF : 1241981521116890900236351832064.0/18	In: 568.273+/-0.000	χ^2/NDF : 4889631291936982
Left In: -924.999+/-0.000	χ^2/NDF : 49401480675229601575546650624.0/1	Out: -521.243+/-0.000	χ^2/NDF : 569873337994735
	All: 6.833+/-0.000		χ^2/NDF : 16203760866770

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



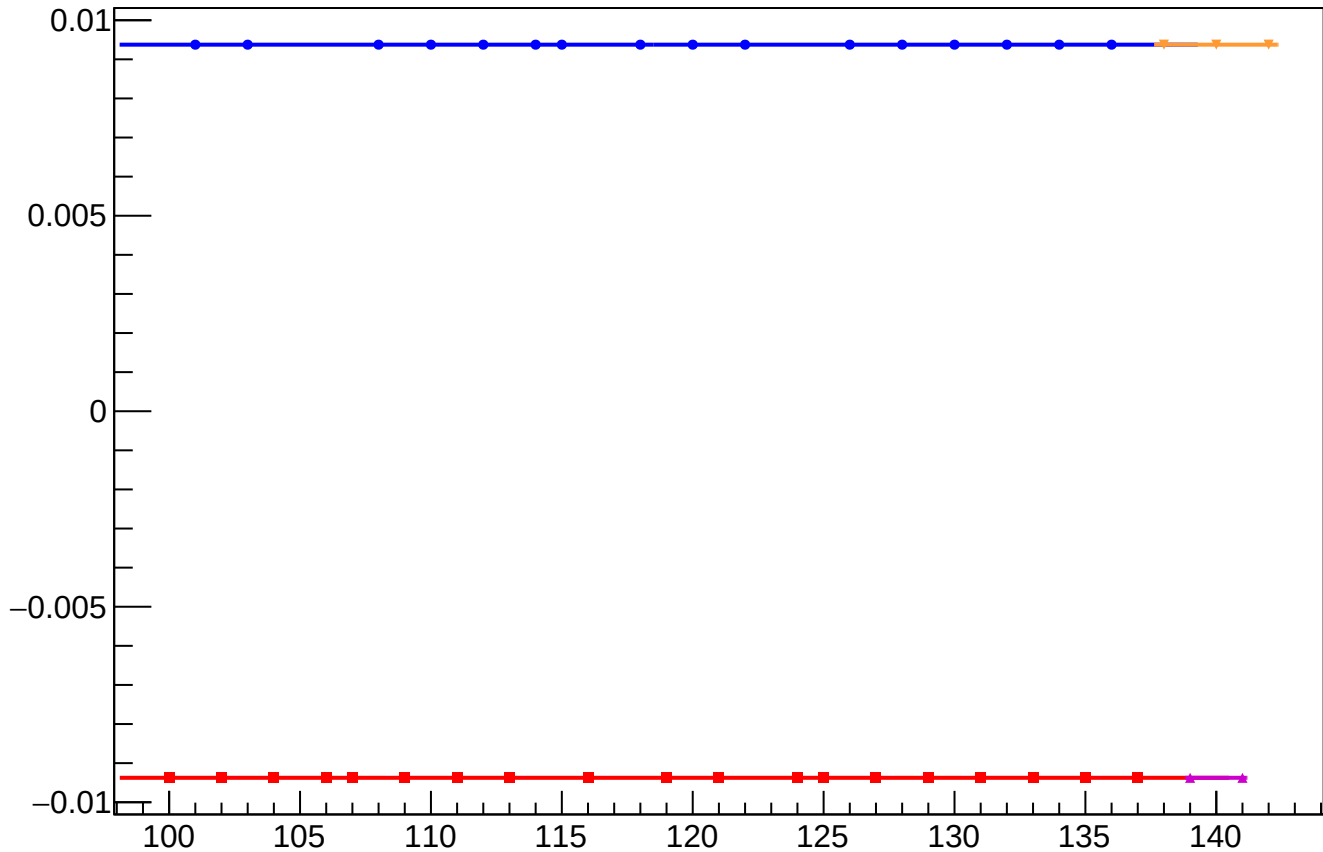
Right In: 762.611+/-0.000 χ^2/NDF : 52161453489138778834460408283136.0/15
 Left Out: 762.492+/-0.000 χ^2/NDF : 10749373272286029358582202368.0/2
 Right Out: -762.618+/-0.000 χ^2/NDF : 53134338532630395841297843748864.0/18
 Left In: -762.490+/-0.000 χ^2/NDF : 5969234072706244856374099968.0/1
 All: 5.632+/-0.000 χ^2/NDF : 11013806582563

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.749+/-0.000	χ^2/NDF : 1959578331072316074448224518144.0/15	Left: 90.252+/-0.000	χ^2/NDF : 36968536225443562
Left Out: 977.777+/-0.000	χ^2/NDF : 272473898800665506595580411904.0/2	Right: -14.301+/-0.000	χ^2/NDF : 143750377983115
Right Out: -977.747+/-0.000	χ^2/NDF : 1782226877816914726327966236672.0/18	In: 600.701+/-0.000	χ^2/NDF : 54636199489043317
Left In: -977.787+/-0.000	χ^2/NDF : 452510285473334686763242749952.0/1	Out: -550.978+/-0.000	χ^2/NDF : 636767243247127
	All: 7.228+/-0.000		χ^2/NDF : 1810574506614

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 0.1/15

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:0.0/2

Right Out: -0.009 $\pm$ 0.000 χ^2 /NDF: 0.0/18

Left In: -0.009 $\pm$ 0.000 χ^2 /NDF:0.0/1

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 339852764423075887

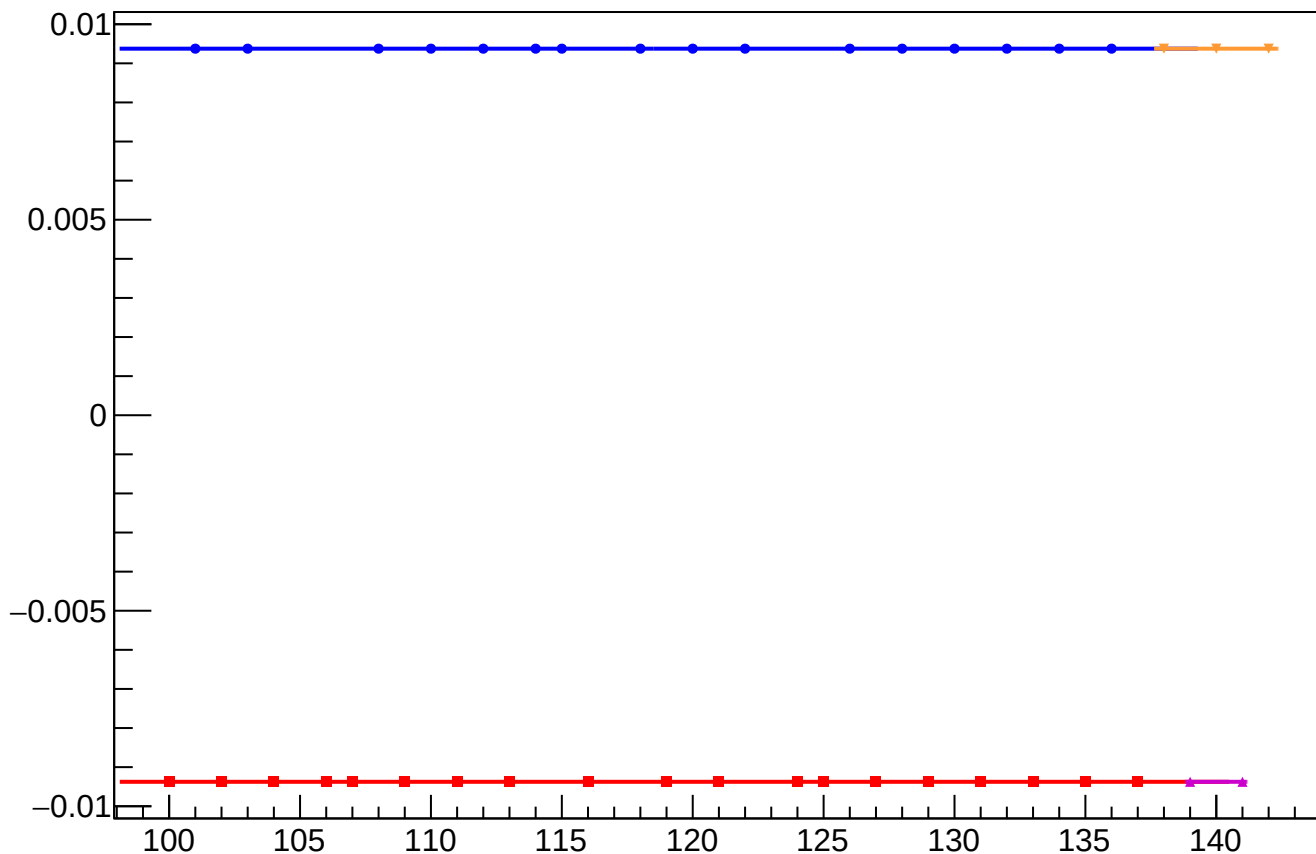
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 1321592160488695

In: 0.006 $\pm$ 0.000 χ^2 /NDF:5022863051470577960

Out: -0.005 $\pm$ 0.000 χ^2 /NDF:58540559362192546

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 16645574841605

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 0.1/15

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:0.0/2

Right Out: -0.009 $\pm$ 0.000 χ^2 /NDF: 0.0/18

Left In: -0.009 $\pm$ 0.000 χ^2 /NDF:0.0/1

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 339852764423075887

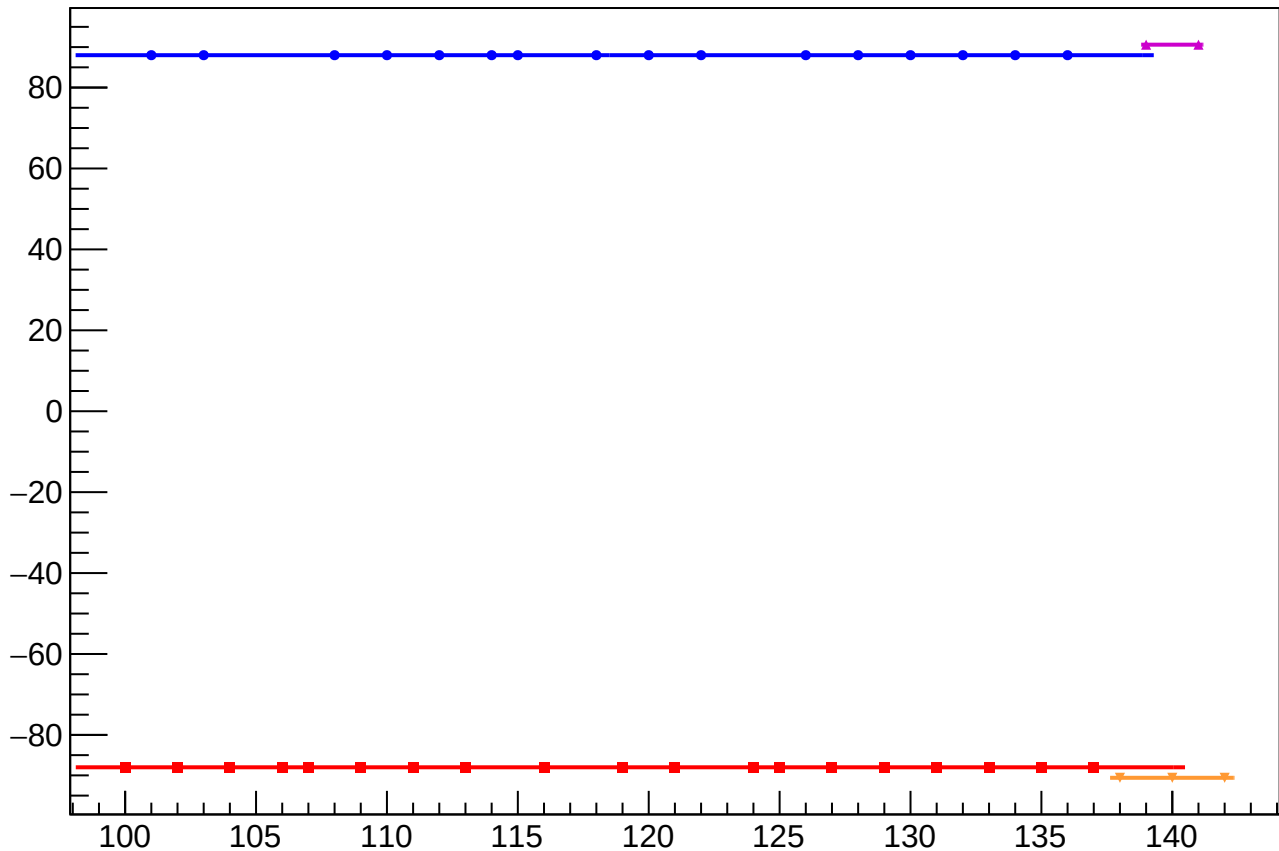
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 1321592160488695

In: 0.006 $\pm$ 0.000 χ^2 /NDF:5022863051470577960

Out: -0.005 $\pm$ 0.000 χ^2 /NDF:58540559362192546

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 16645574841605

VWienAngle_mean vs Slug, Sign Corrected



Right In: 88.001 $\pm$ 0.000 χ^2/NDF : 1500072.7/15

Left Out: -90.599 $\pm$ 0.000 χ^2/NDF : 2578477.1/2

Right Out: -90.003 $\pm$ 0.000 χ^2/NDF : 73227058941379664360176091136.0/18

Left In: 90.599 $\pm$ 0.000 χ^2/NDF : 185994.5/1

Left: -8.363 $\pm$ 0.000 χ^2/NDF : 31739341234421197

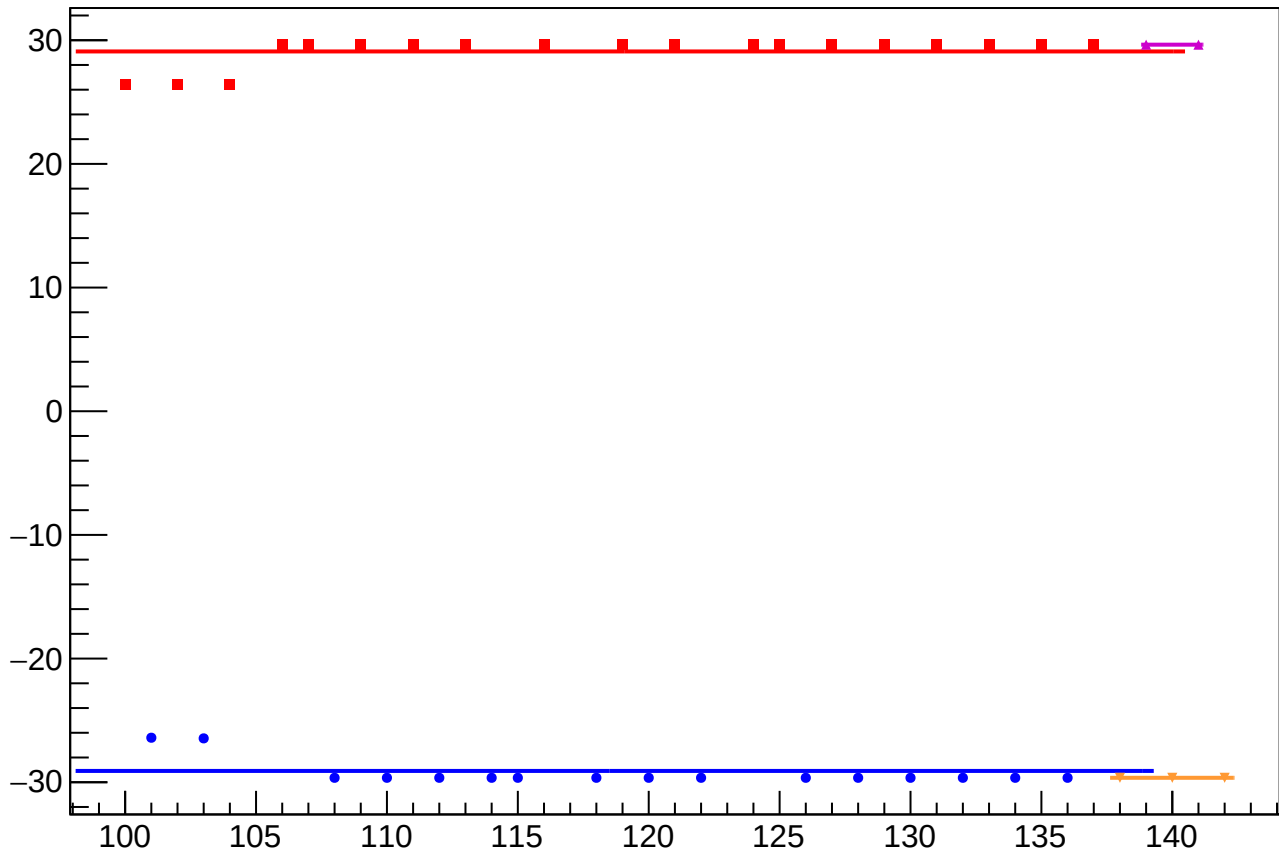
Right: -1.289 $\pm$ 0.000 χ^2/NDF : 1164502782894649

In: 88.502 $\pm$ 0.000 χ^2/NDF : 964773958393733590

Out: -88.570 $\pm$ 0.000 χ^2/NDF : 1122161270399716

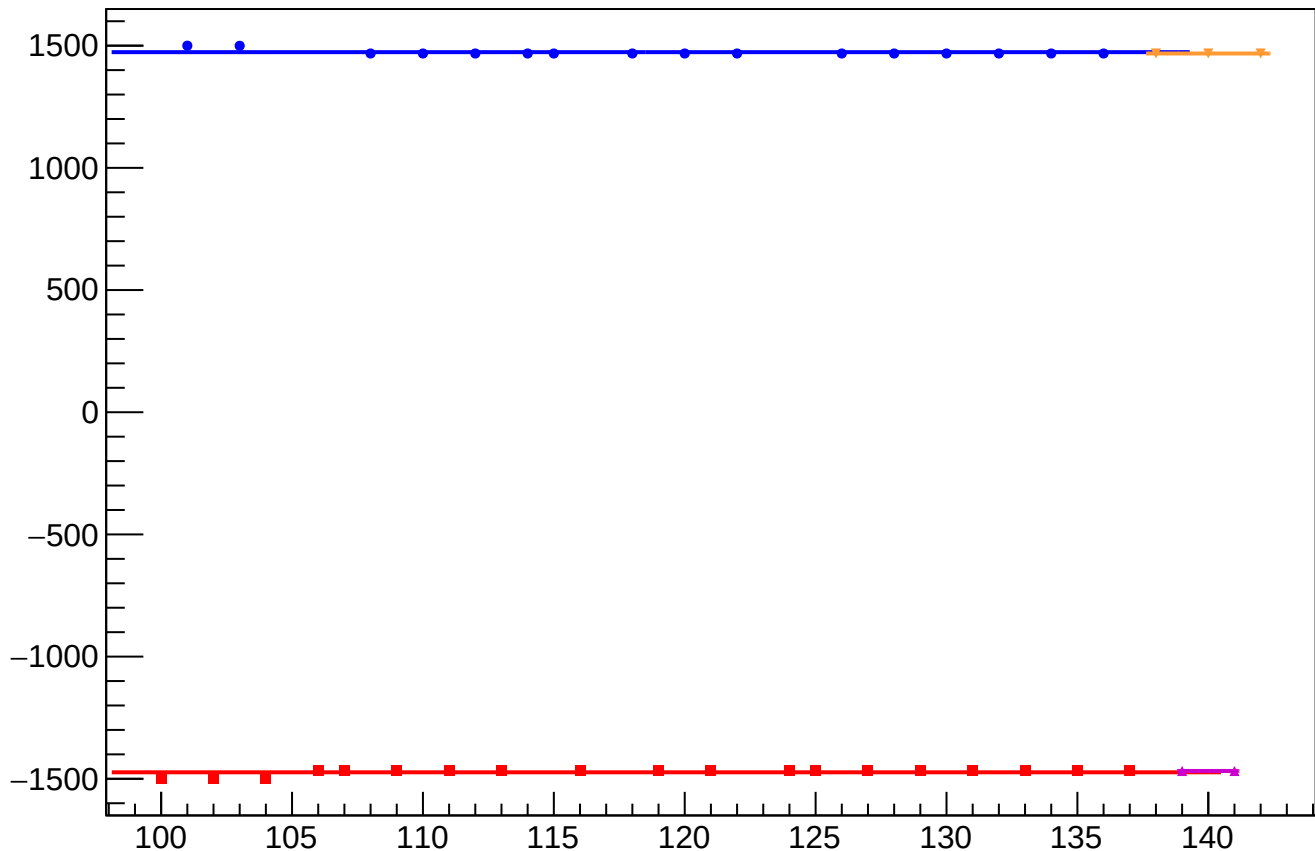
All: -2.745 $\pm$ 0.000 χ^2/NDF : 1483446122132

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.085 ± 0.000 $\chi^2/\text{NDF}: 1094367885251609877355036411953152.0/15$
 Left Out: -29.641 ± 0.000 $\chi^2/\text{NDF}: 149000.0/2$
 Right Out: 29.093 ± 0.000 $\chi^2/\text{NDF}: 1125238156749692849797805899776000.0/18$
 Left In: 29.641 ± 0.000 $\chi^2/\text{NDF}: 5414.7/1$
 In: -17.762 ± 0.000 $\chi^2/\text{NDF}: 49382680387029744$
 Out: 16.275 ± 0.000 $\chi^2/\text{NDF}: 57554302513022431$
 All: -0.223 ± 0.000 $\chi^2/\text{NDF}: 1617426912308$

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1473.467+/-0.000

χ^2/NDF : 106894194860706176878485793704771584.0/15

Left Out: 1467.979+/-0.000

χ^2/NDF : 221477609.0/2

Right Out: -1473.393+/-0.000

χ^2/NDF : 109909499733401078761067843300622336.0/18

Left In: -1467.979+/-0.000

χ^2/NDF : 4807987.3/1

Left: 135.506+/-0.000

χ^2/NDF : 8332745457275645

Right: -21.516+/-0.000

χ^2/NDF : 326469738591460

In: 906.326+/-0.000

χ^2/NDF : 12362557531196480

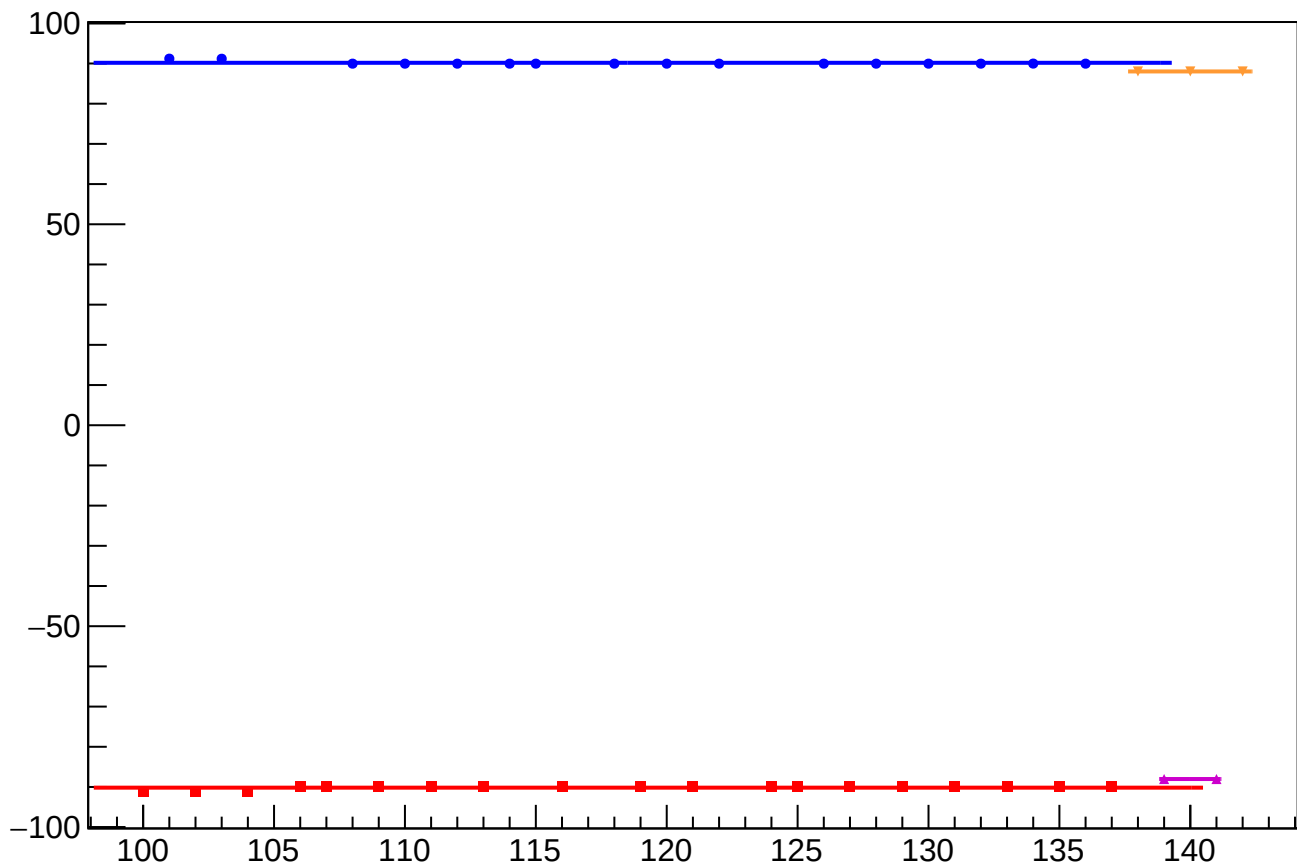
Out: -831.475+/-0.000

χ^2/NDF : 144074623138022

All: 10.817+/-0.000

χ^2/NDF : 4105607660790

Phi_FG_mean vs Slug, Sign Corrected



Right In: 90.173+/-0.000

χ^2/NDF : 160010492173064584437589858058240.0/15

Left Out: 88.021+/-0.000

χ^2/NDF : 2156808.8/2

Right Out: -90.169+/-0.000

χ^2/NDF : 164815404456112641329707295440896.0/18

Left In: -88.021+/-0.000

χ^2/NDF : 92088.5/1

Left: 8.125+/-0.000 χ^2/NDF : 299583521208337258

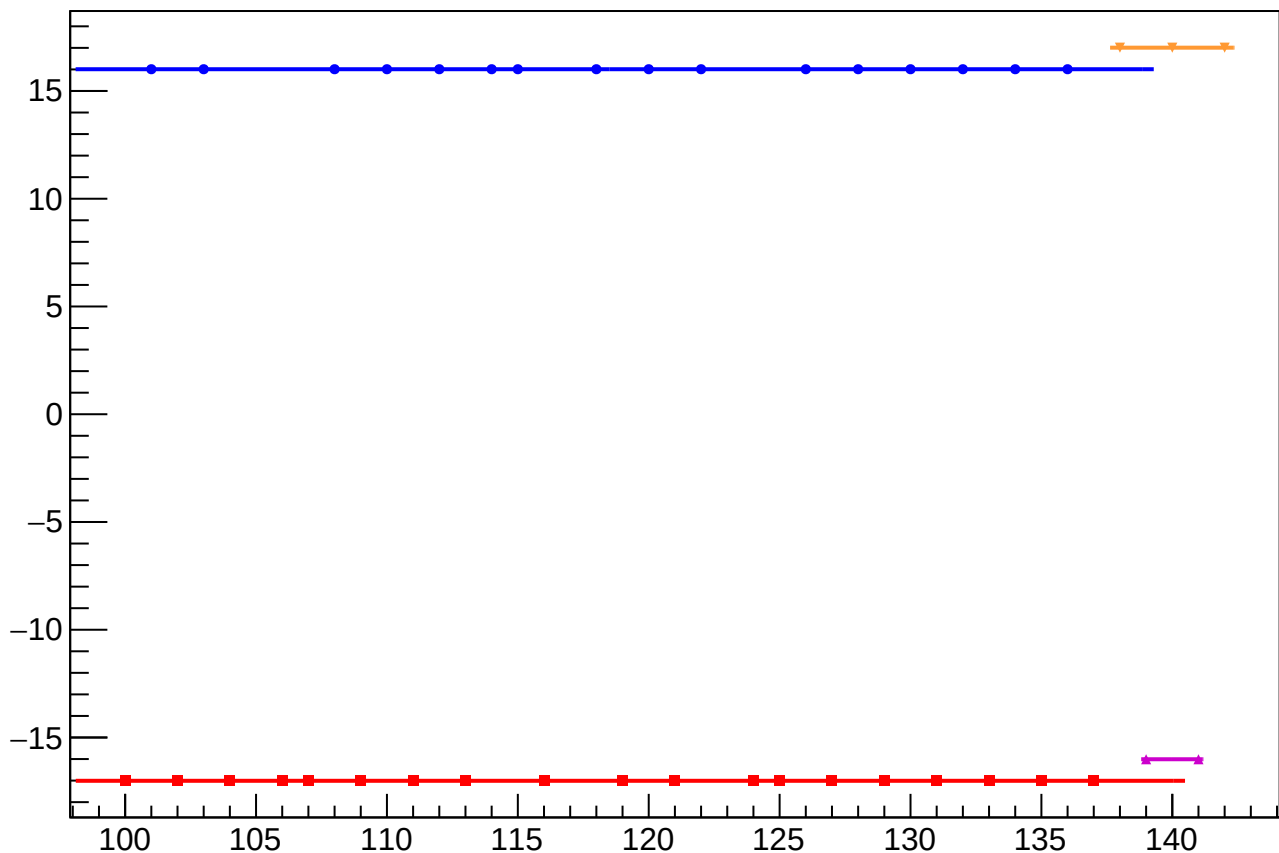
Right: -1.317+/-0.000 χ^2/NDF : 1222640469973926

In: 55.815+/-0.000 χ^2/NDF : 45367790965027598

Out: -51.281+/-0.000 χ^2/NDF : 5287285873501220

All: 0.627+/-0.000 χ^2/NDF : 15249849939873

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 44239.3/15

Left Out: 17.009+/-0.000 χ^2/NDF : 698755003565954778005504.0/2

Right Out: -17.009+/-0.000 χ^2/NDF : 13878987313036743260766208.0/18

Left In: -16.009+/-0.000 χ^2/NDF : 984.5/1

Left: 1.277+/-0.000 χ^2/NDF : 924642095193754475

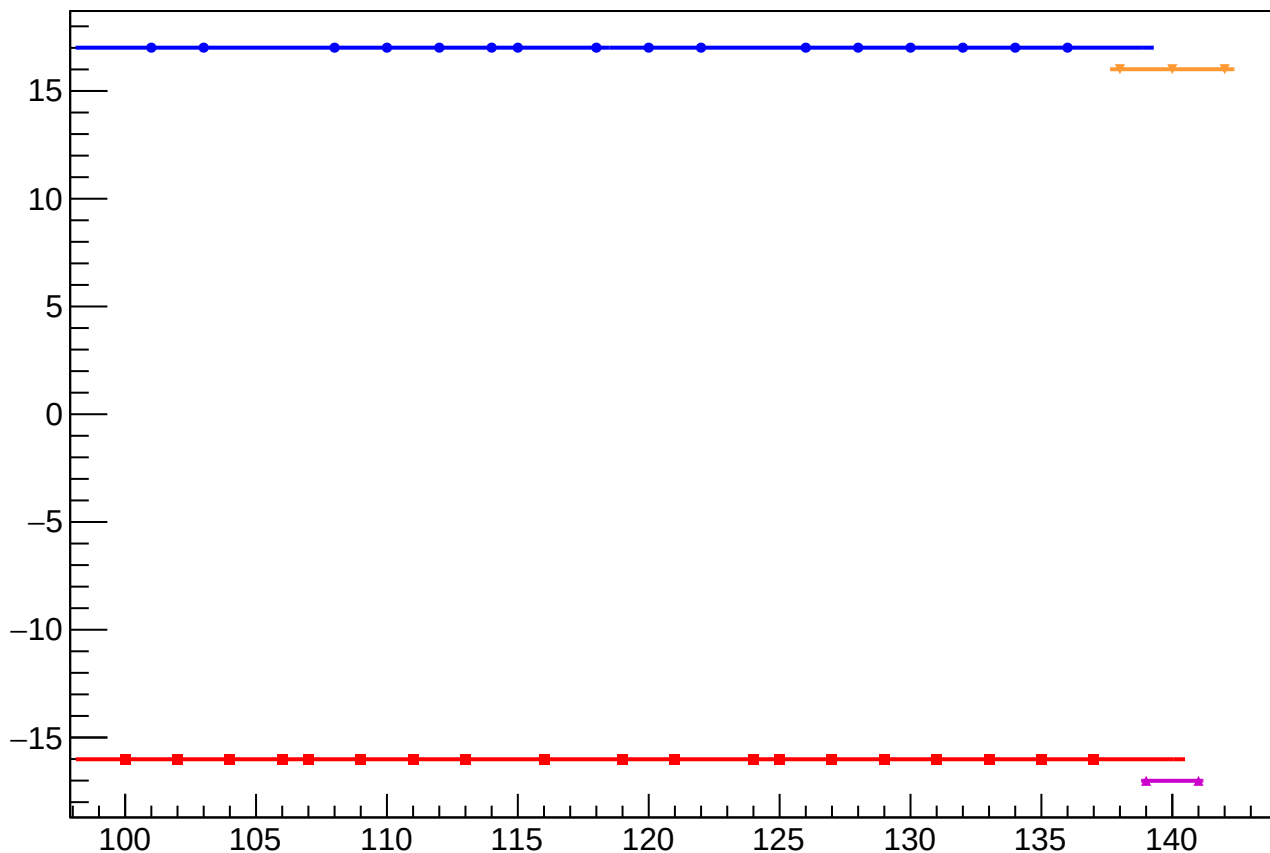
Right: -0.393+/-0.000 χ^2/NDF : 3802025477299216

In: 10.006+/-0.000 χ^2/NDF : 134941996274414309

Out: -10.057+/-0.000 χ^2/NDF : 1638950724099017

All: -0.066+/-0.000 χ^2/NDF : 4734294206434

IGL1I00OD16_16_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 126634.3/15

Left Out: 16.009+/-0.000 χ^2/NDF : 30746.6/2

Right Out: -16.009+/-0.000 χ^2/NDF : 39518.8/18

Left In: -17.009+/-0.000 χ^2/NDF : 1173.8/1

Left: 1.024+/-0.000 χ^2/NDF : 105392454466045670

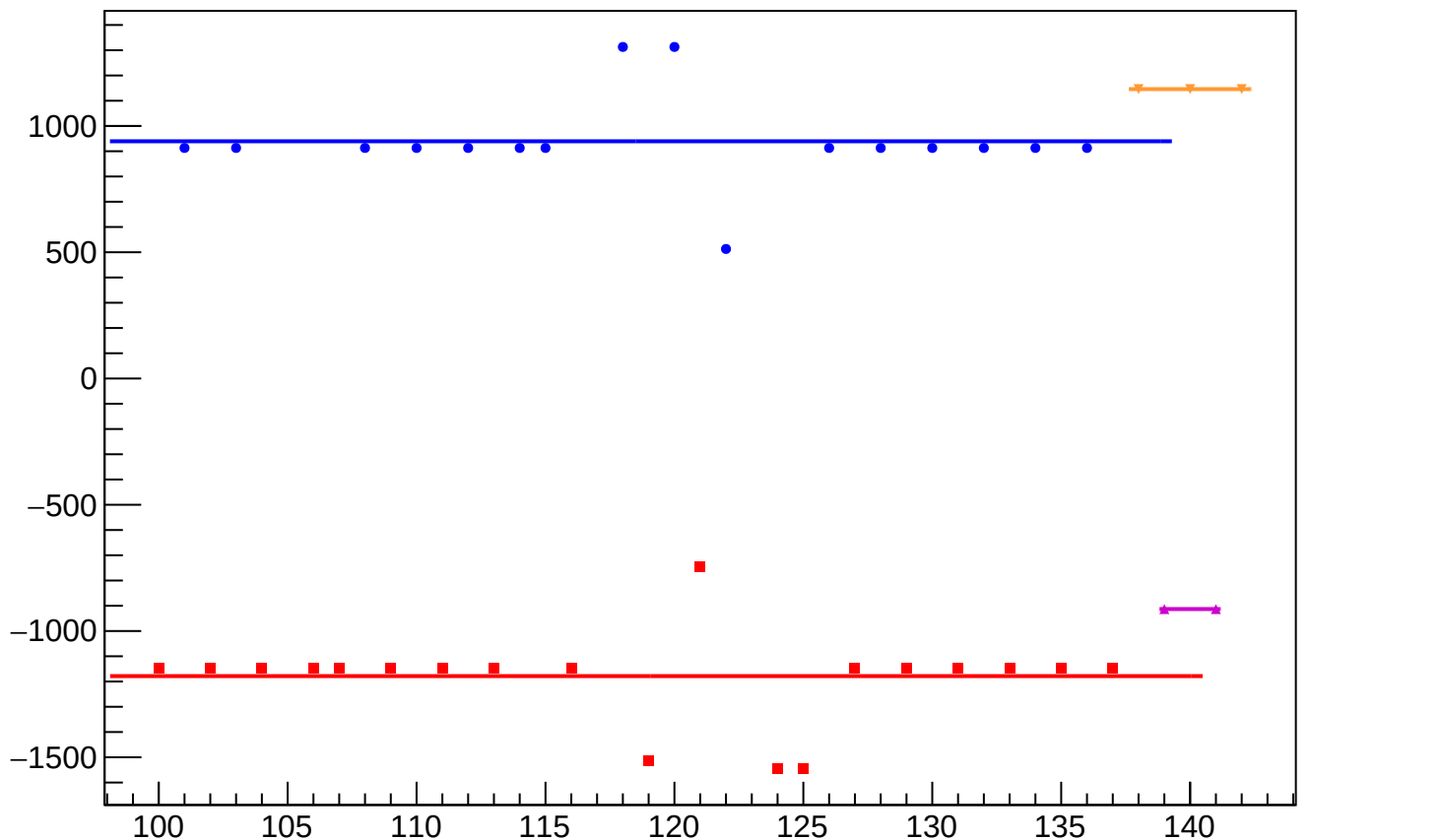
Right: -0.086+/-0.000 χ^2/NDF : 3990694435474134

In: 10.198+/-0.000 χ^2/NDF : 16382384640178693

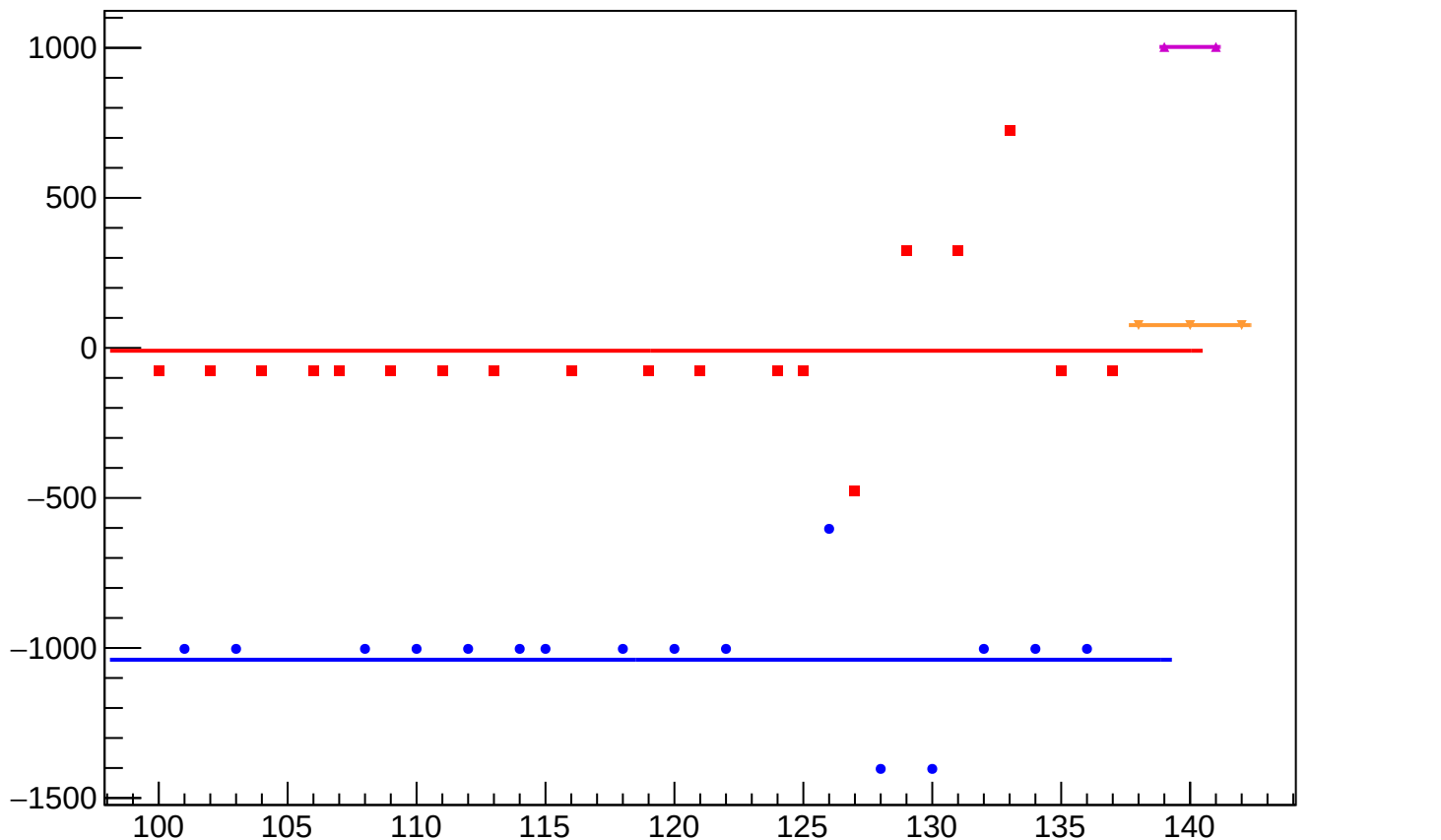
Out: -8.993+/-0.000 χ^2/NDF : 17051549921404843

All: 0.148+/-0.000 χ^2/NDF : 50484113197063

RTPAPOSUCNT_mean vs Slug, Sign Corrected

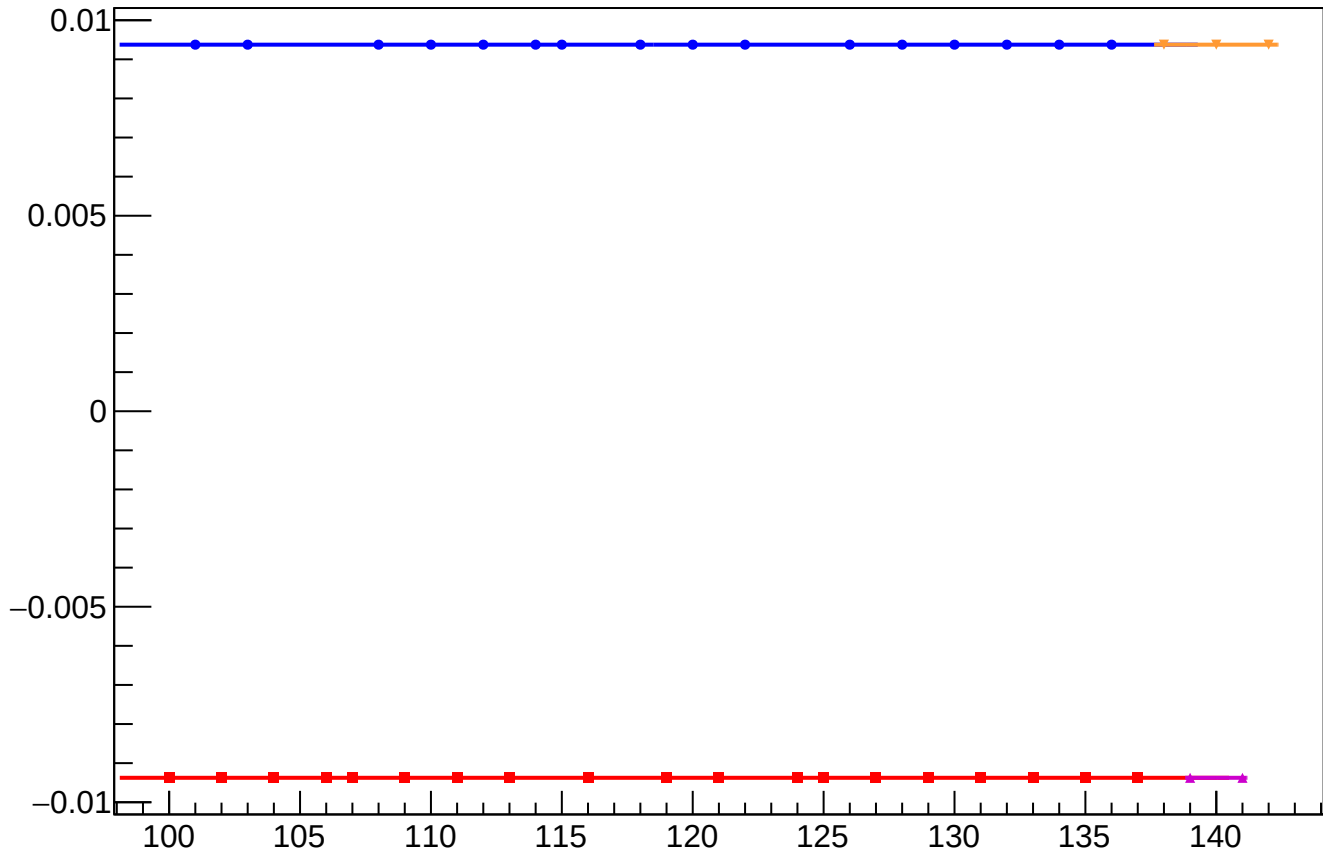


RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1039.157 ± 0.000 $\chi^2/\text{NDF}: 22870377308507164002708101555084591104.0/15$
 Left Out: 76.010 ± 0.000 $\chi^2/\text{NDF}: 152779612272328585284419584.0/2$
 Right Out: -9.430 ± 0.000 $\chi^2/\text{NDF}: 46057394734928766474893736526051540992.0/18$
 Left In: 1002.990 ± 0.000 $\chi^2/\text{NDF}: 87017011574707556569841664.0/1$
 All: -308.073 ± 0.000 $\chi^2/\text{NDF}: 86869488930$

RTPPITA1CNT_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.1/15

Left Out: 0.009+/-0.000 χ^2/NDF : 0.0/2

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/18

Left In: -0.009+/-0.000 χ^2/NDF : 0.0/1

Left: 0.001+/-0.000 χ^2/NDF : 339852764423075887

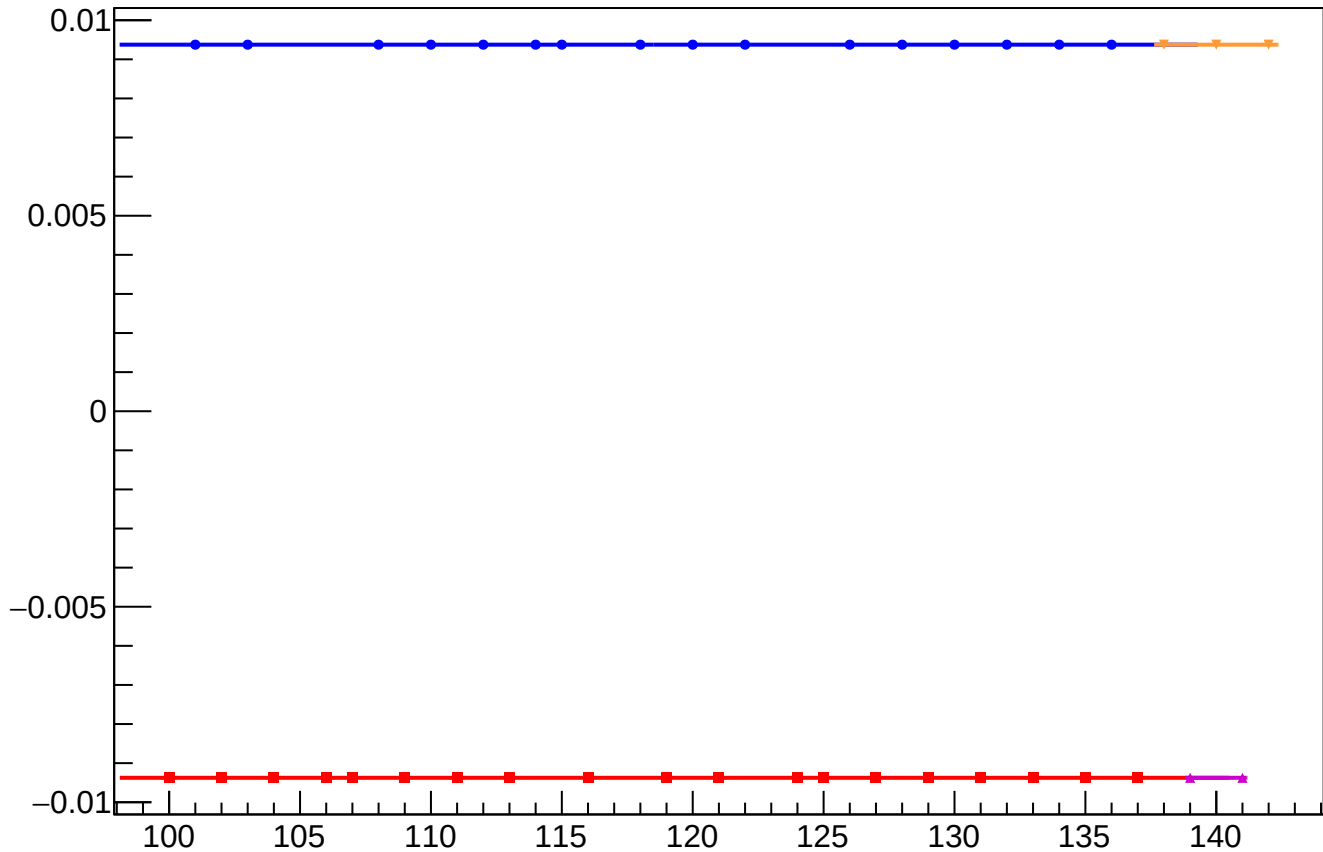
Right: -0.000+/-0.000 χ^2/NDF : 1321592160488695

In: 0.006+/-0.000 χ^2/NDF : 5022863051470577960

Out: -0.005+/-0.000 χ^2/NDF : 58540559362192546

All: 0.000+/-0.000 χ^2/NDF : 16645574841605

RTPPITA2CNT_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 0.1/15

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 0.0/2

Right Out: -0.009 $\pm$ 0.000 χ^2 /NDF: 0.0/18

Left In: -0.009 $\pm$ 0.000 χ^2 /NDF: 0.0/1

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 339852764423075887

Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 1321592160488695

In: 0.006 $\pm$ 0.000 χ^2 /NDF: 5022863051470577960

Out: -0.005 $\pm$ 0.000 χ^2 /NDF: 58540559362192546

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 16645574841605